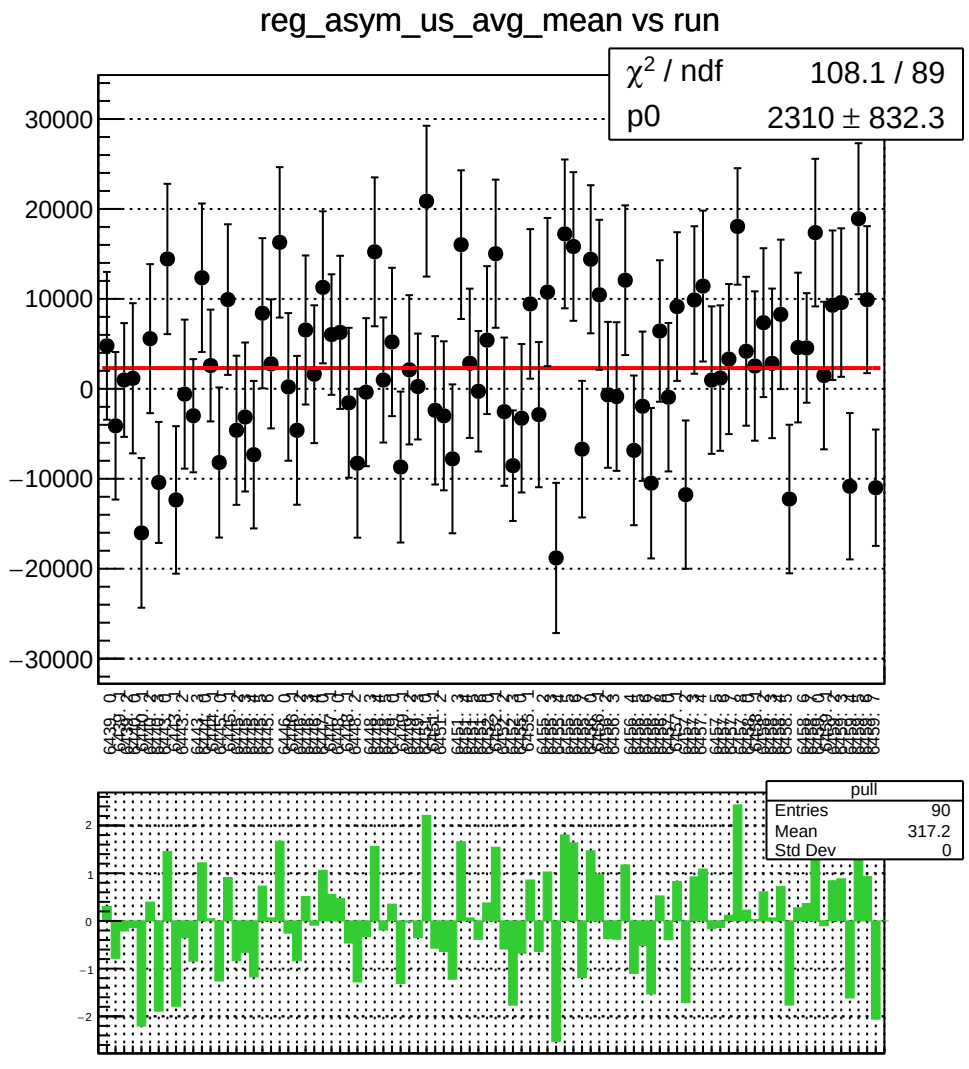
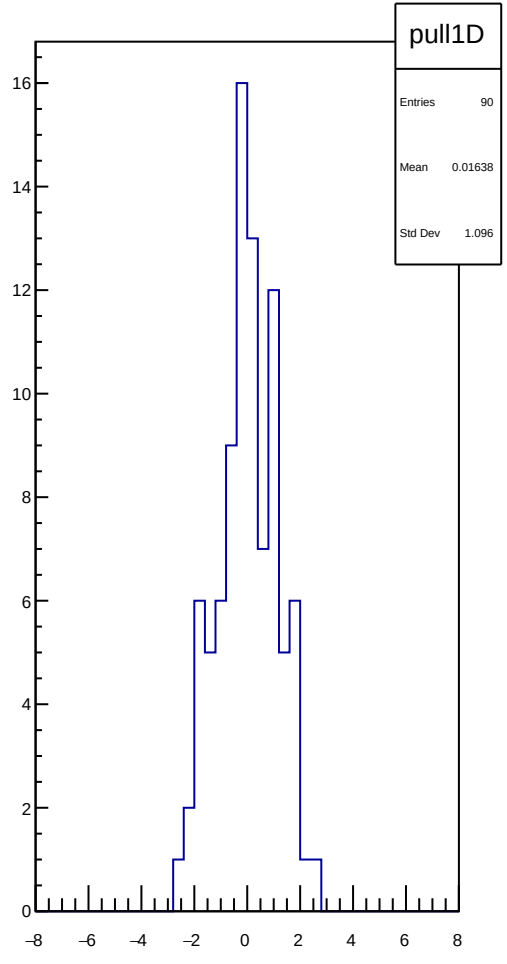
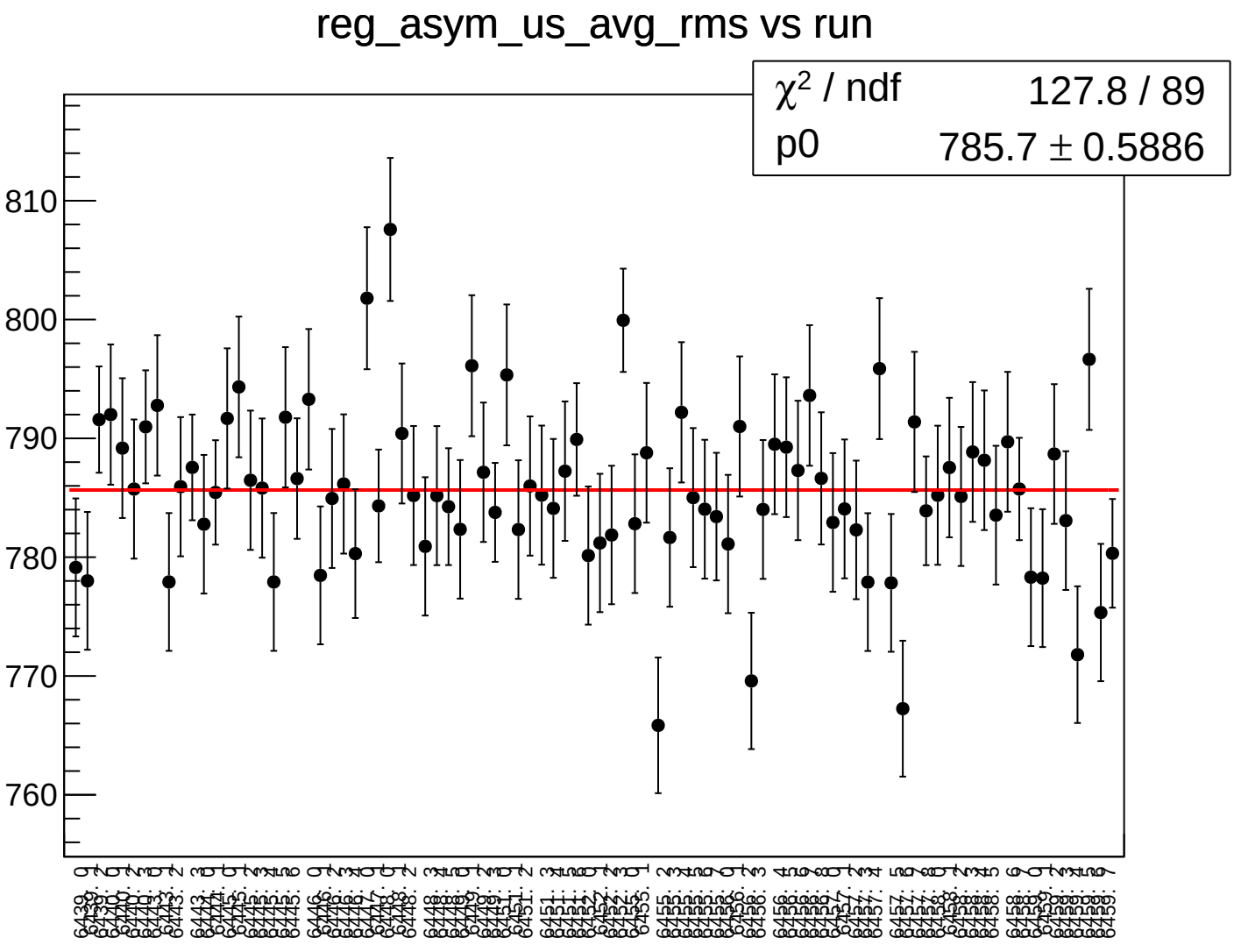
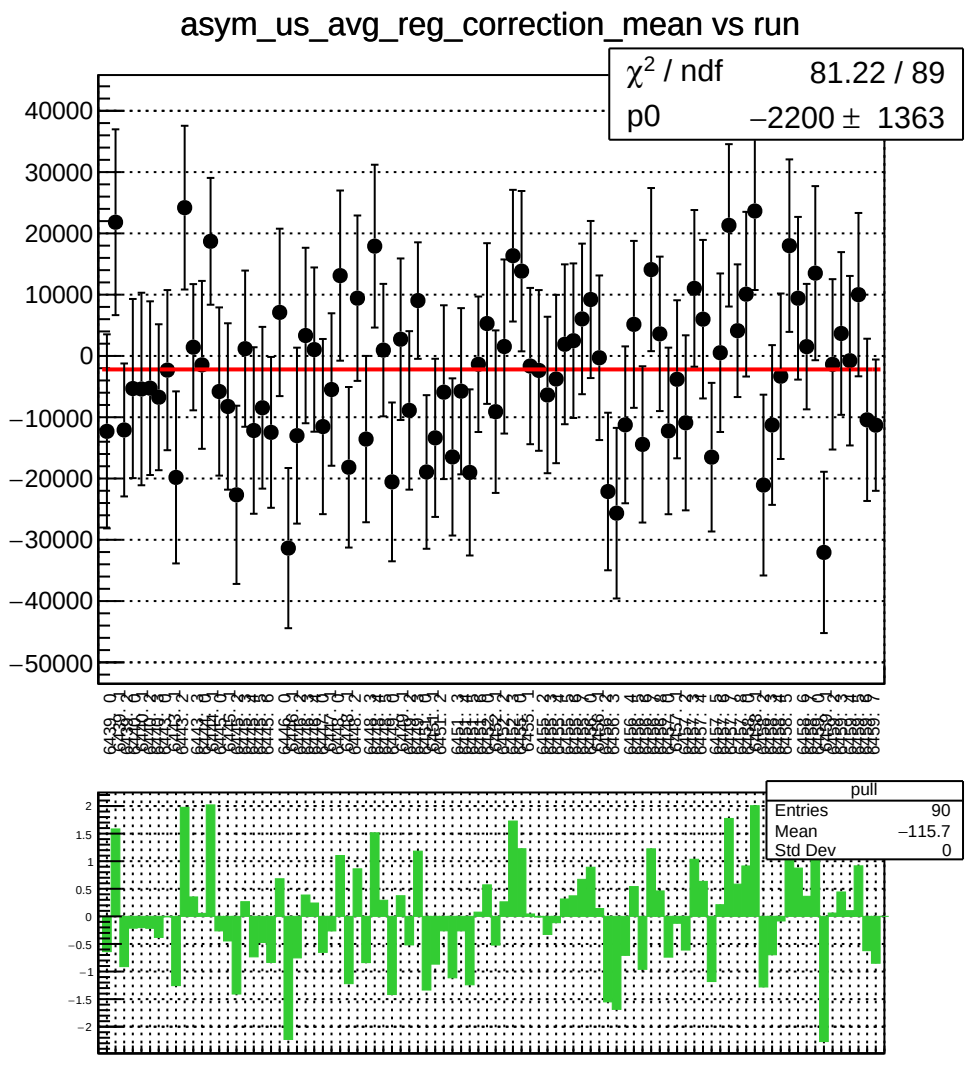
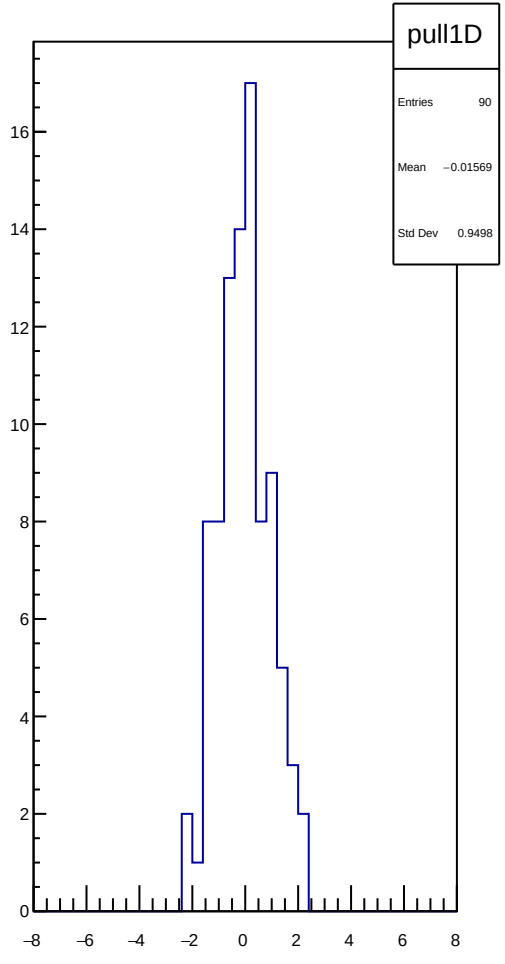
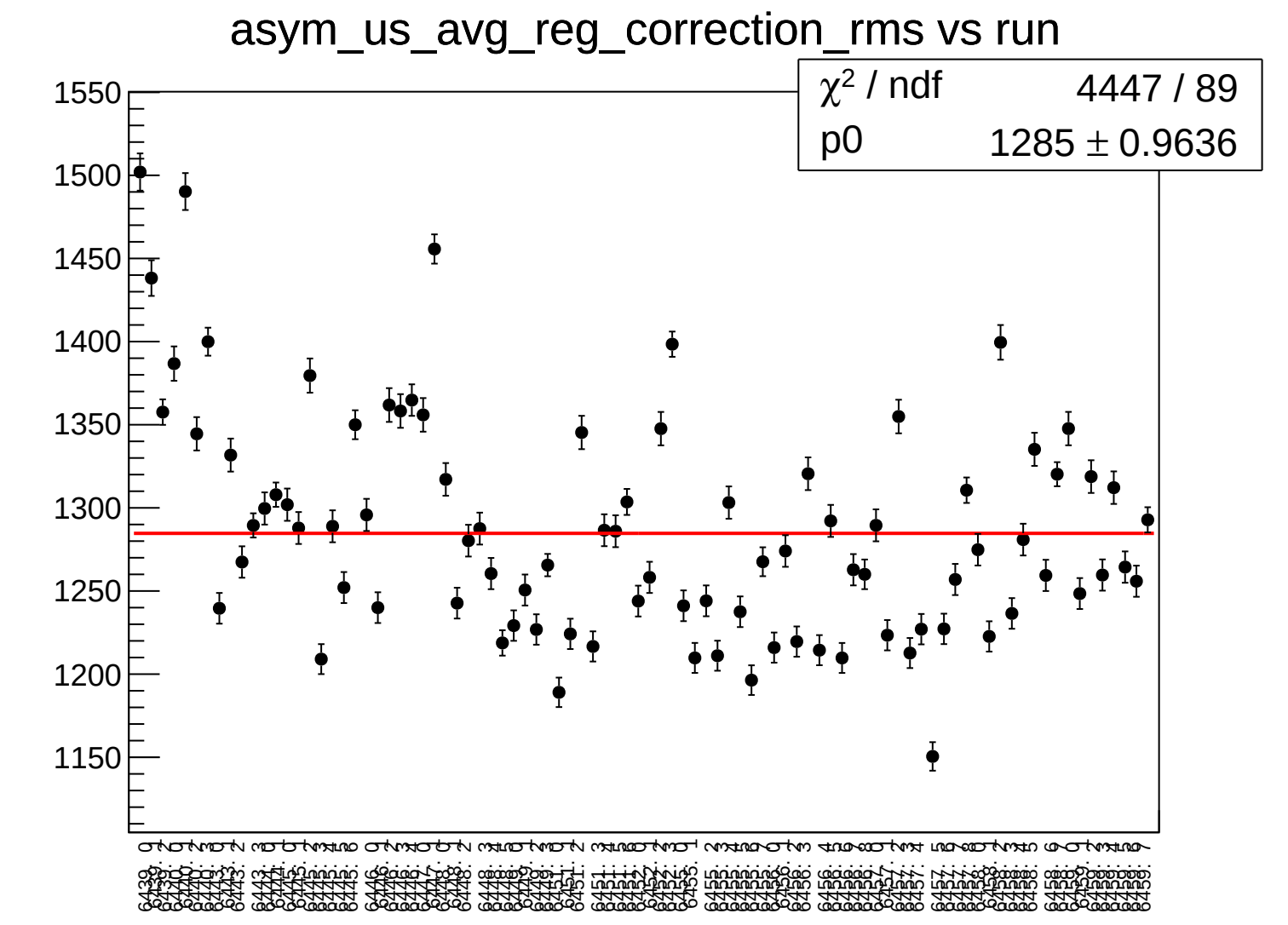

reg_asym_us_avg_mean vs run
χ² / ndf 108.1 / 89
p0 2310 ± 832.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean 317.2
Std Dev 0
2
1
0
−1
−2

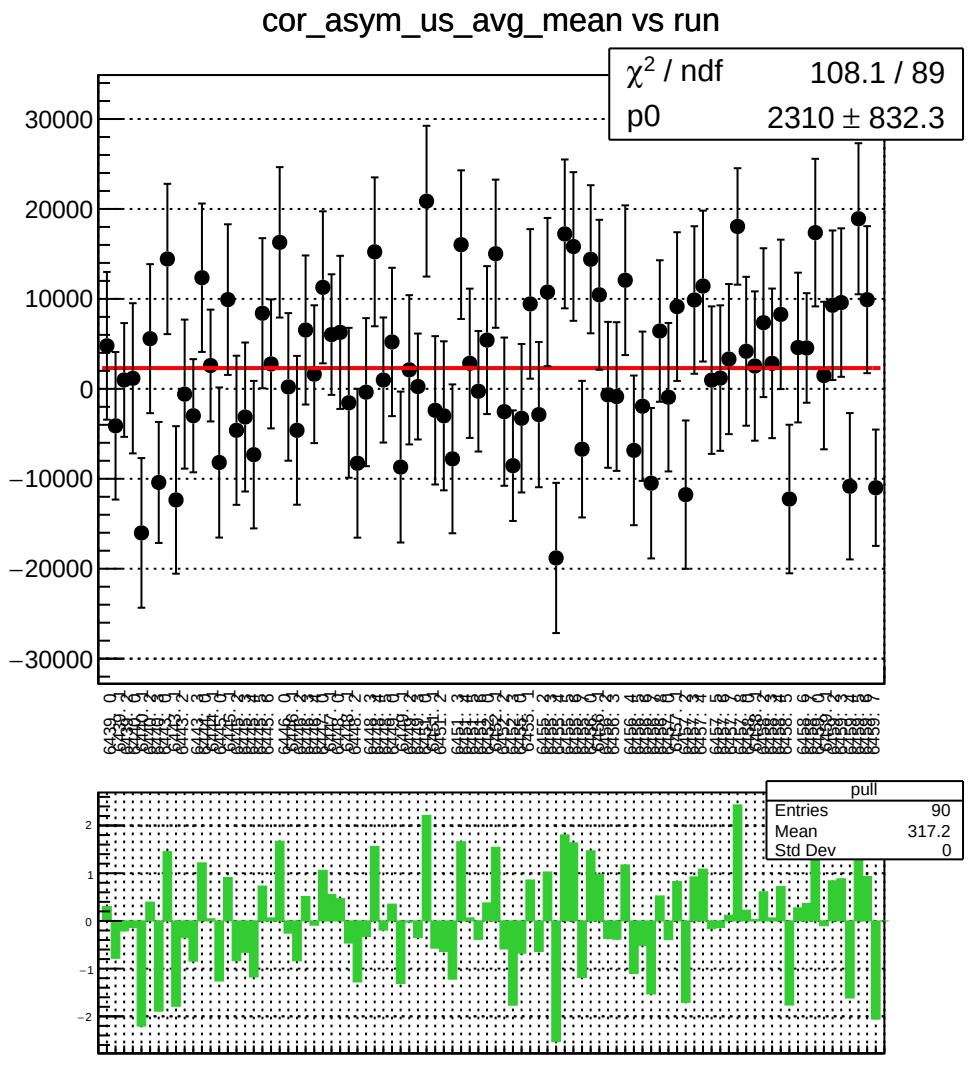

pull1D
Entries 90
Mean 0.01638
Std Dev 1.096
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

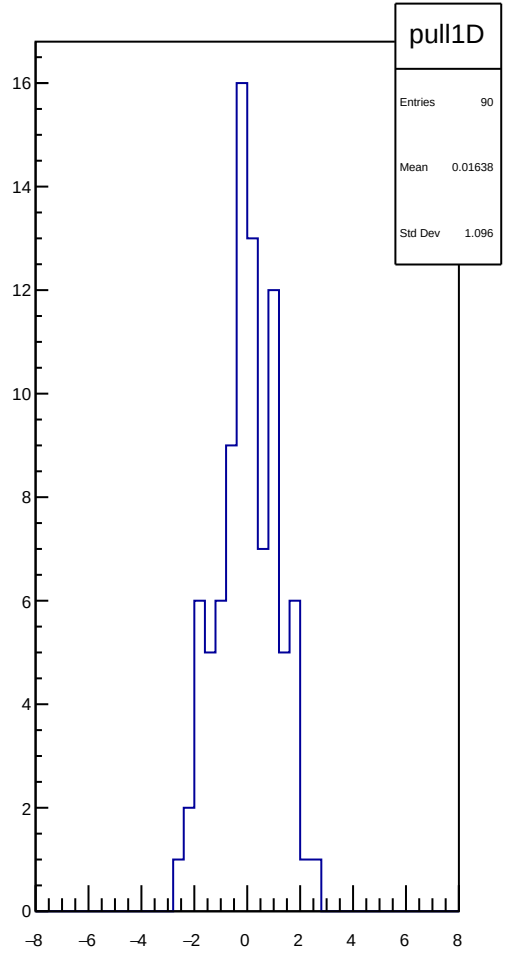

reg_asym_us_avg_rms vs run
χ² / ndf 127.8 / 89
p0 785.7 ± 0.5886
810
800
790
780
770
760


asym_us_avg_reg_correction_mean vs run
χ² / ndf 81.22 / 89
p0 −2200 ± 1363
pull
Entries 90
Mean −115.7
Std Dev 0


pull1D
Entries 90
Mean −0.01569
Std Dev 0.9498


asym_us_avg_reg_correction_rms vs run
χ² / ndf 4447 / 89
p0 1285 ± 0.9636
1550
1500
1450
1400
1350
1300
1250
1200
1150


cor_asym_us_avg_mean vs run
χ² / ndf 108.1 / 89
p0 2310 ± 832.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean 317.2
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 90
Mean 0.01638
Std Dev 1.096
16
14
12
10
8
6
4
2
0
−8
−6
−4
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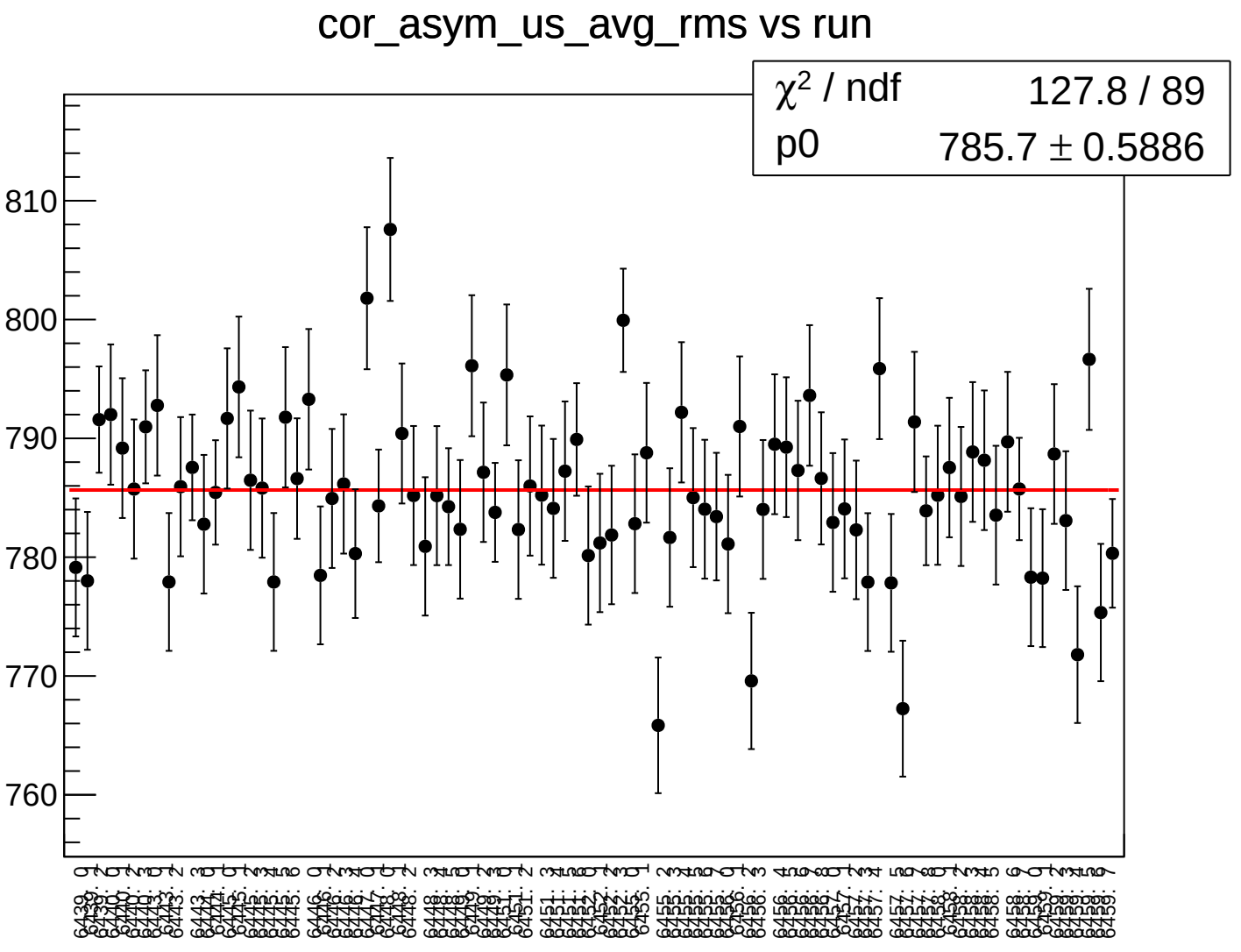
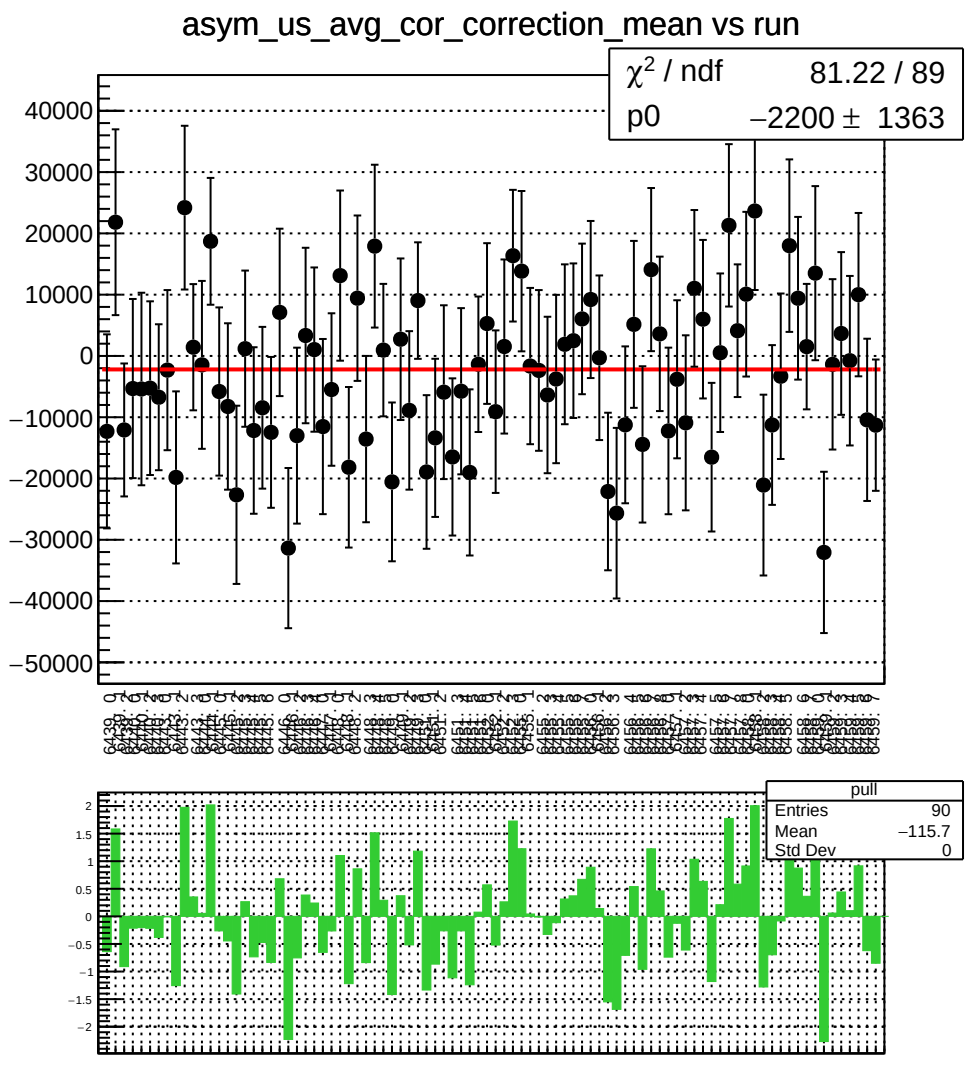
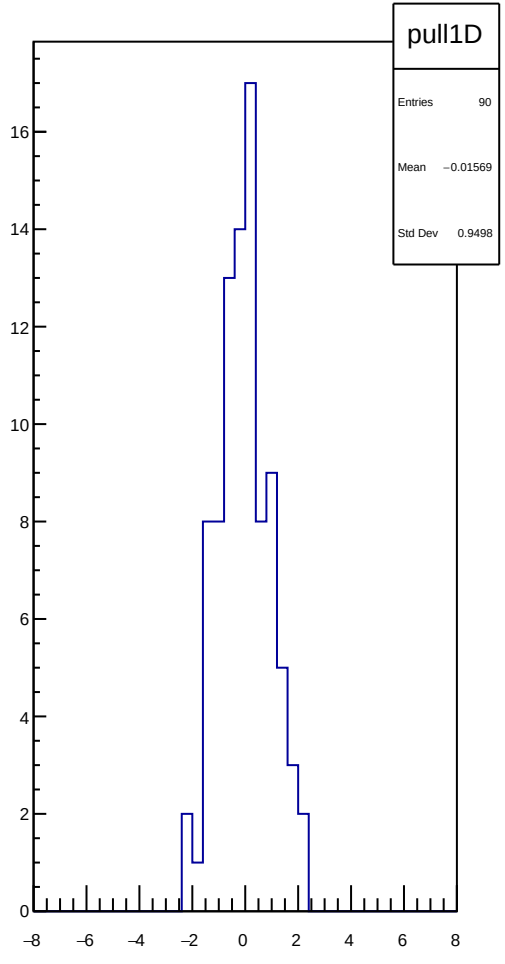
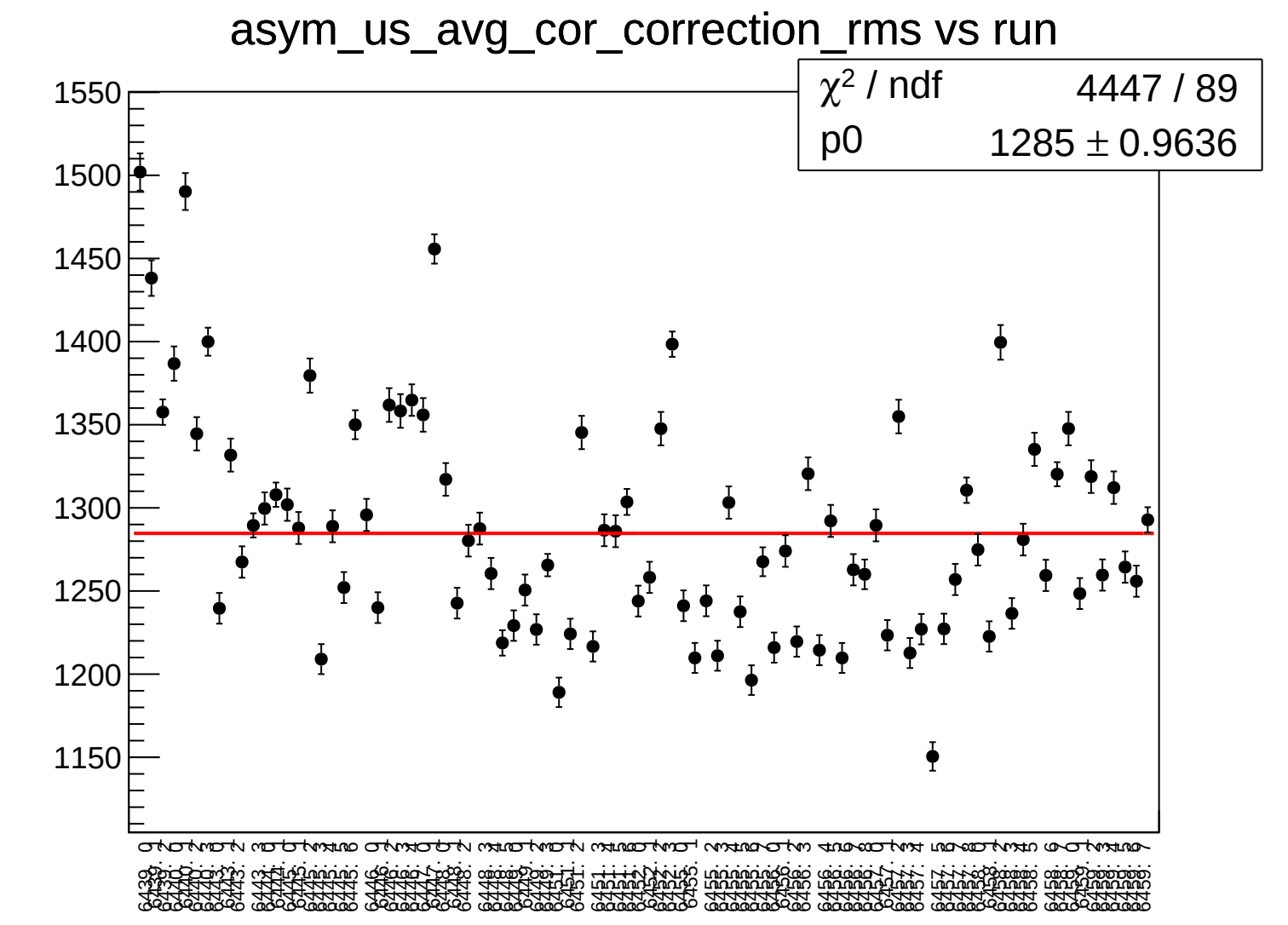
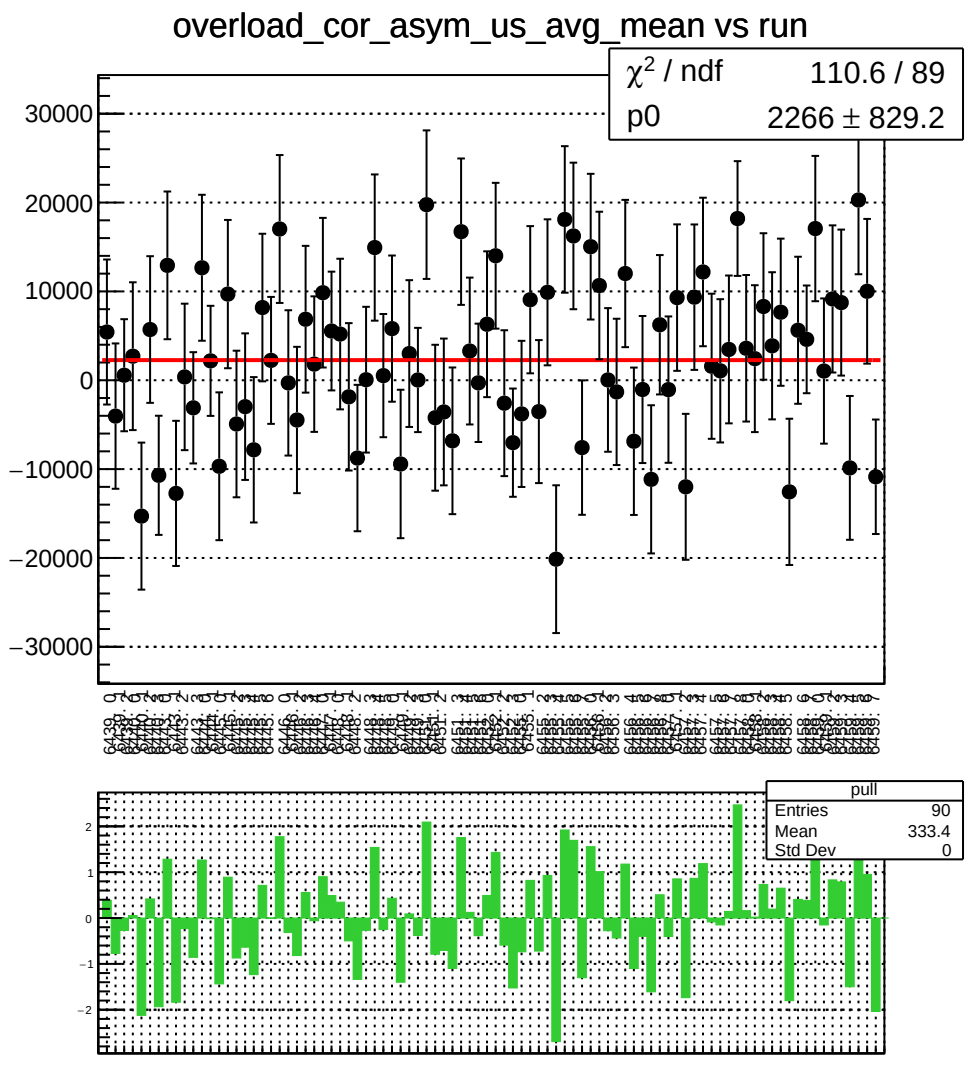
0
2
4
6
8

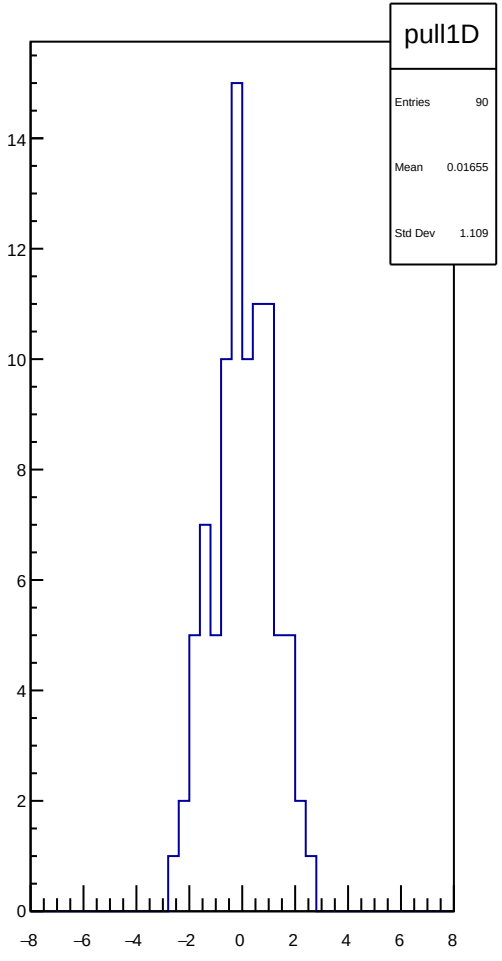

cor_asym_us_avg_rms vs run
χ^2 / ndf 127.8 / 89
p0 785.7 ± 0.5886
810
800
790
780
770
760

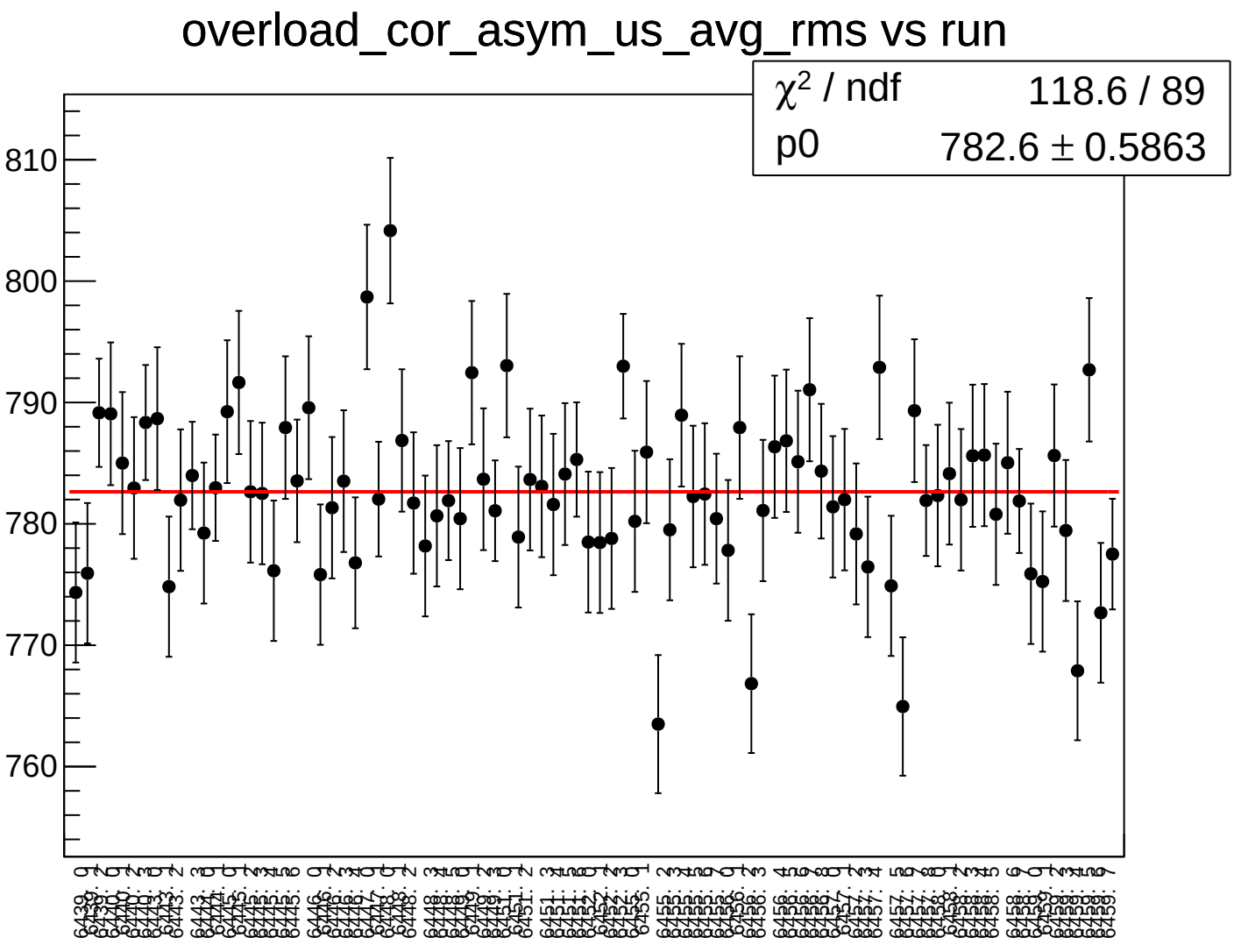

asym_us_avg_cor_correction_mean vs run
χ² / ndf 81.22 / 89
p0 −2200 ± 1363
pull
Entries 90
Mean −115.7
Std Dev 0

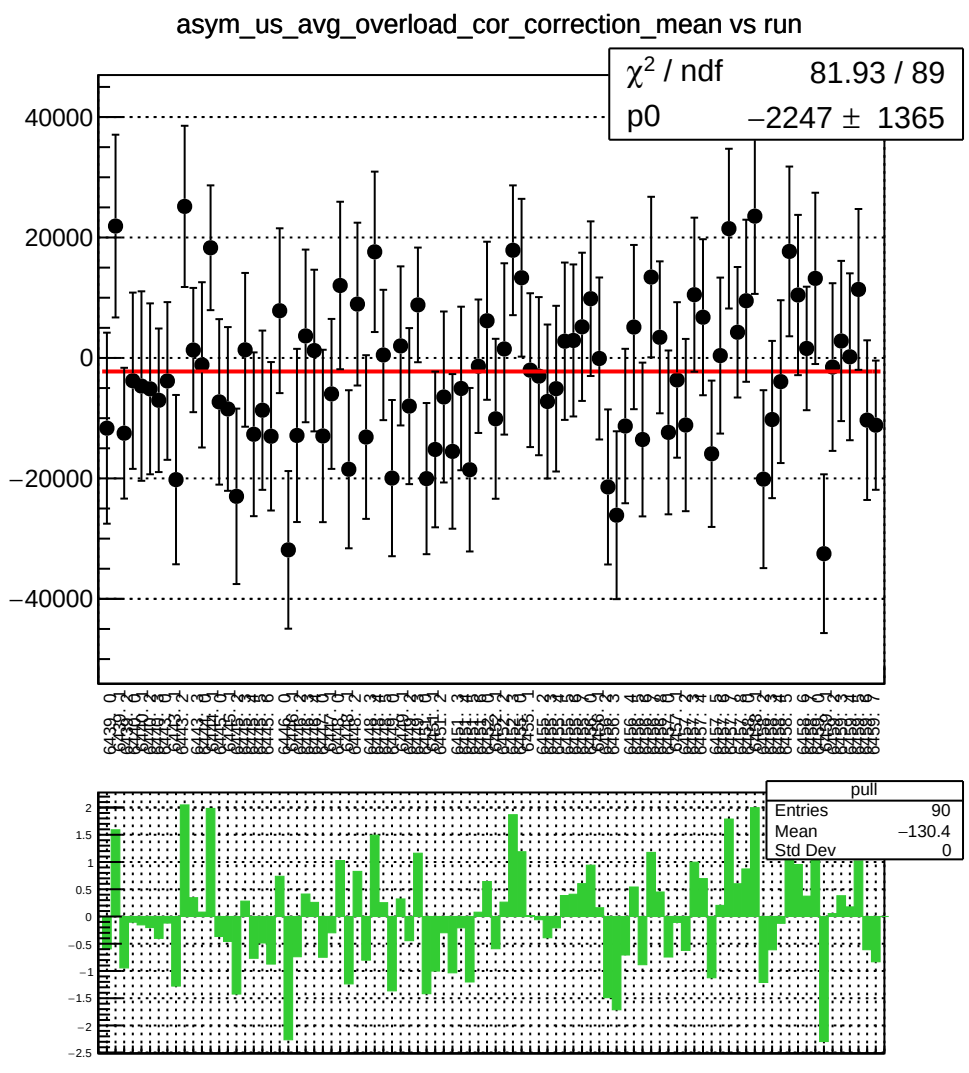

pull1D
Entries 90
Mean −0.01569
Std Dev 0.9498

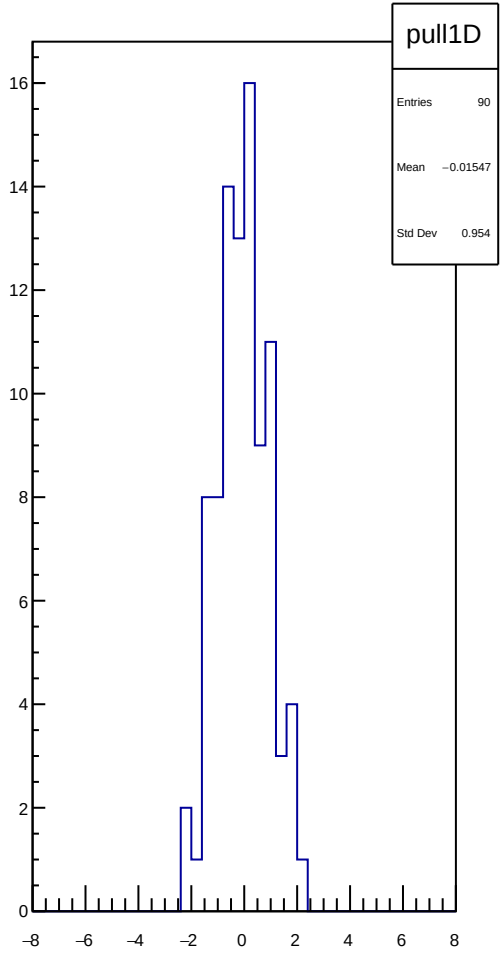

asym_us_avg_cor_correction_rms vs run
χ² / ndf 4447 / 89
p0 1285 ± 0.9636
1550
1500
1450
1400
1350
1300
1250
1200
1150

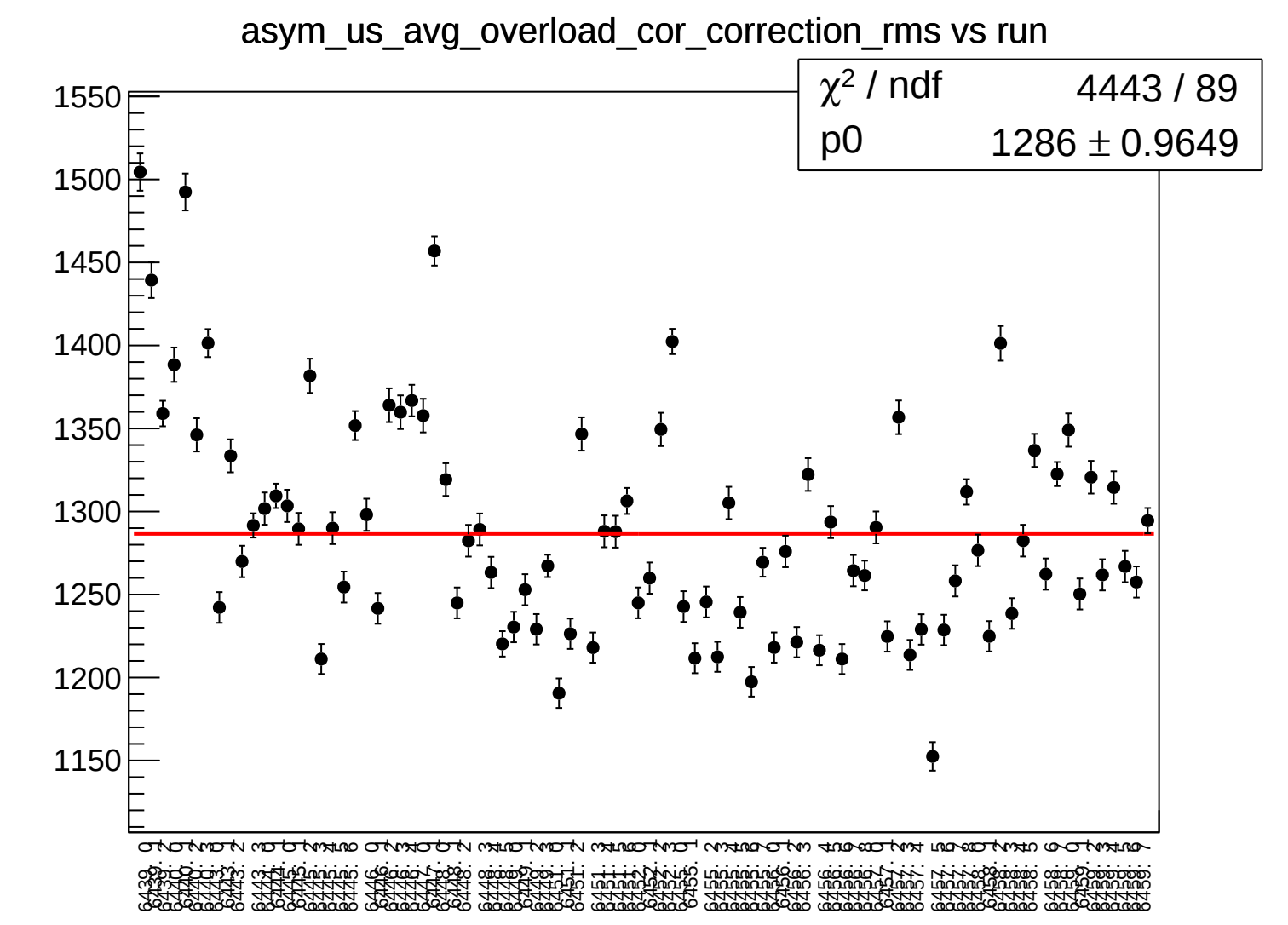

overload_cor_asym_us_avg_mean vs run
χ² / ndf 110.6 / 89
p0 2266 ± 829.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean 333.4
Std Dev 0
2
1
0
−1
−2

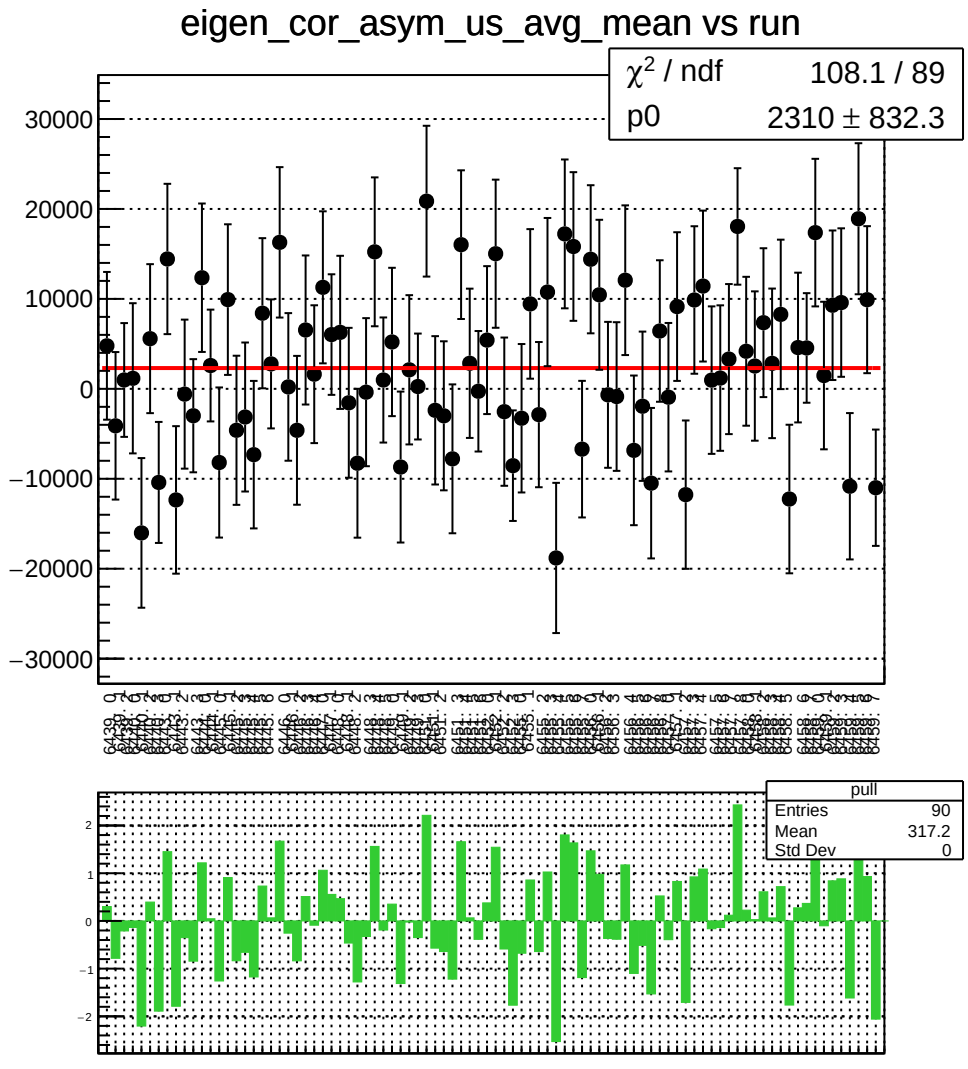

pull1D
Entries 90
Mean 0.01655
Std Dev 1.109
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

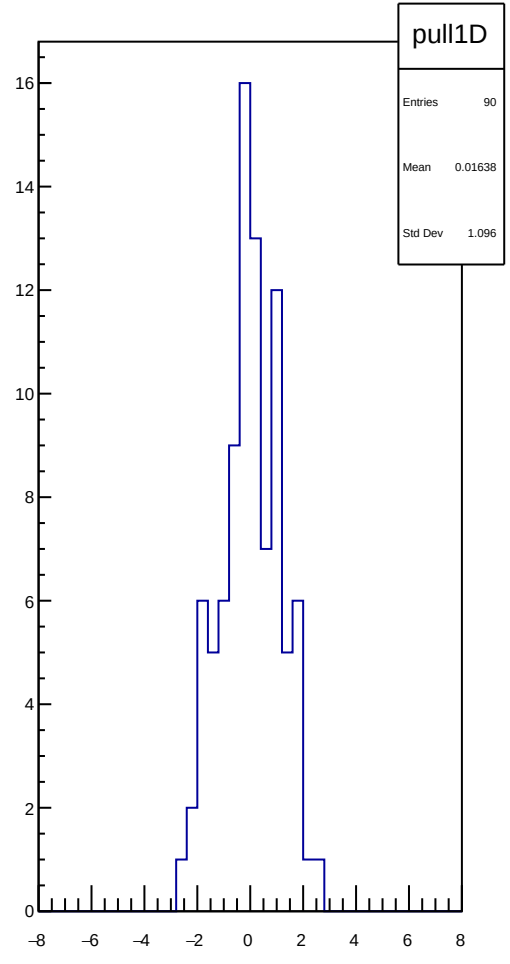

overload_cor_asym_us_avg_rms vs run
χ² / ndf 118.6 / 89
p0 782.6 ± 0.5863
810
800
790
780
770
760

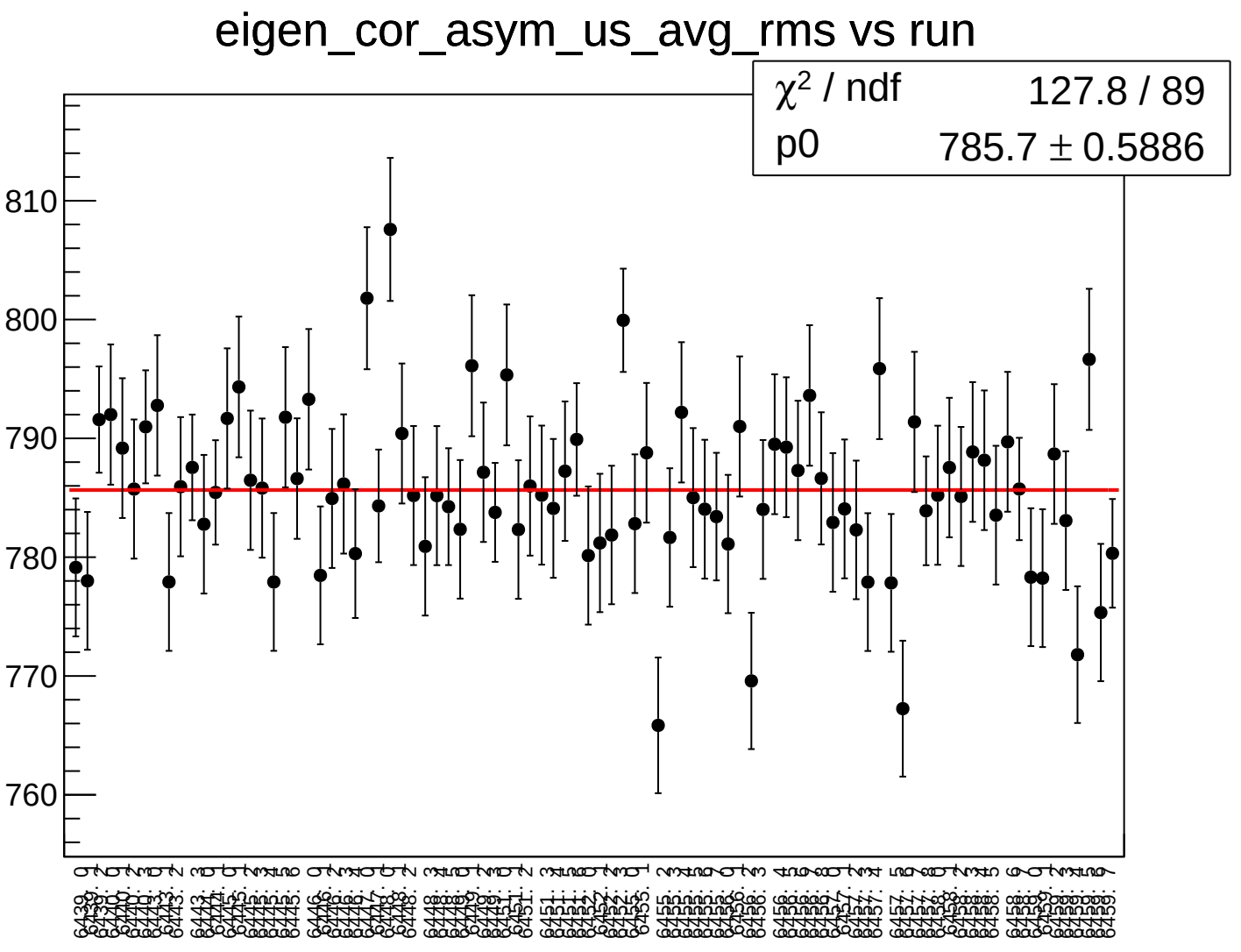

asym_us_avg_overload_cor_correction_mean vs run
χ² / ndf 81.93 / 89
p0 −2247 ± 1365
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −130.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

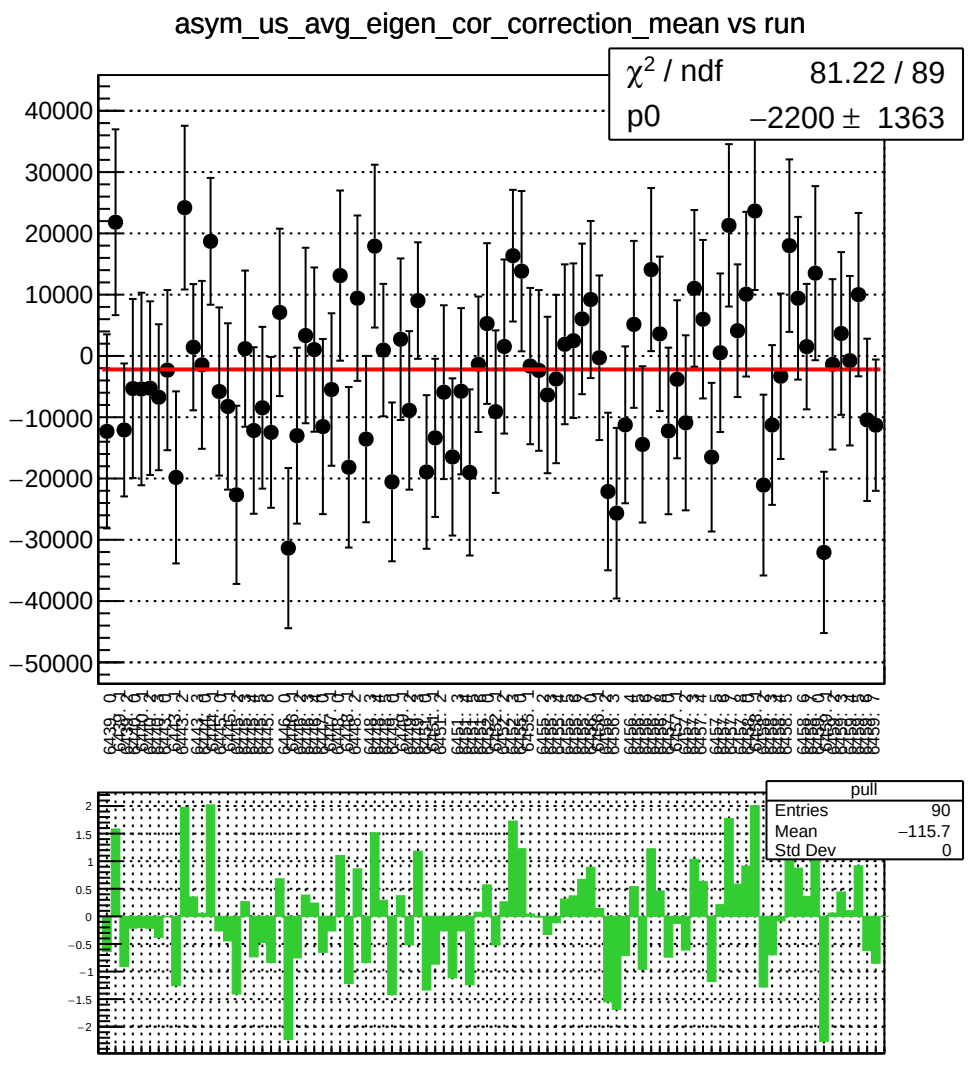

pull1D
Entries 90
Mean −0.01547
Std Dev 0.954
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

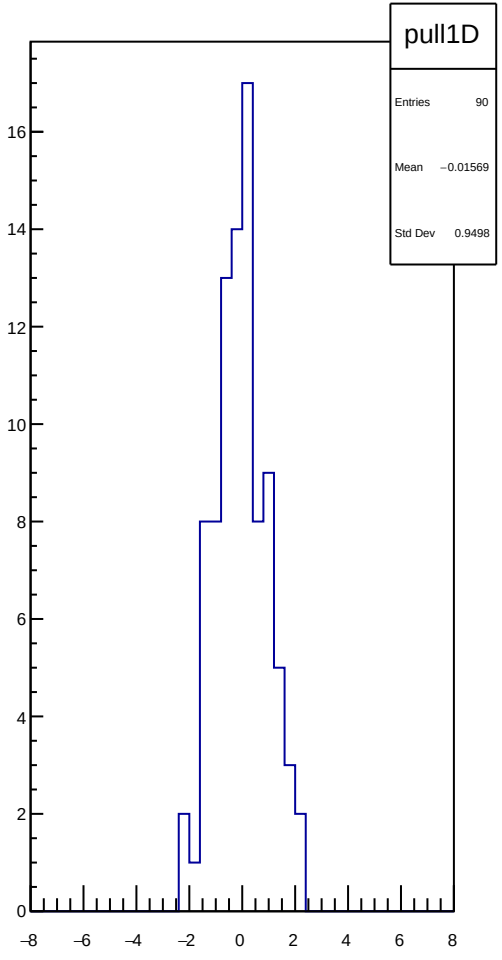

asym_us_avg_overload_cor_correction_rms vs run
χ² / ndf 4443 / 89
p0 1286 ± 0.9649
1550
1500
1450
1400
1350
1300
1250
1200
1150

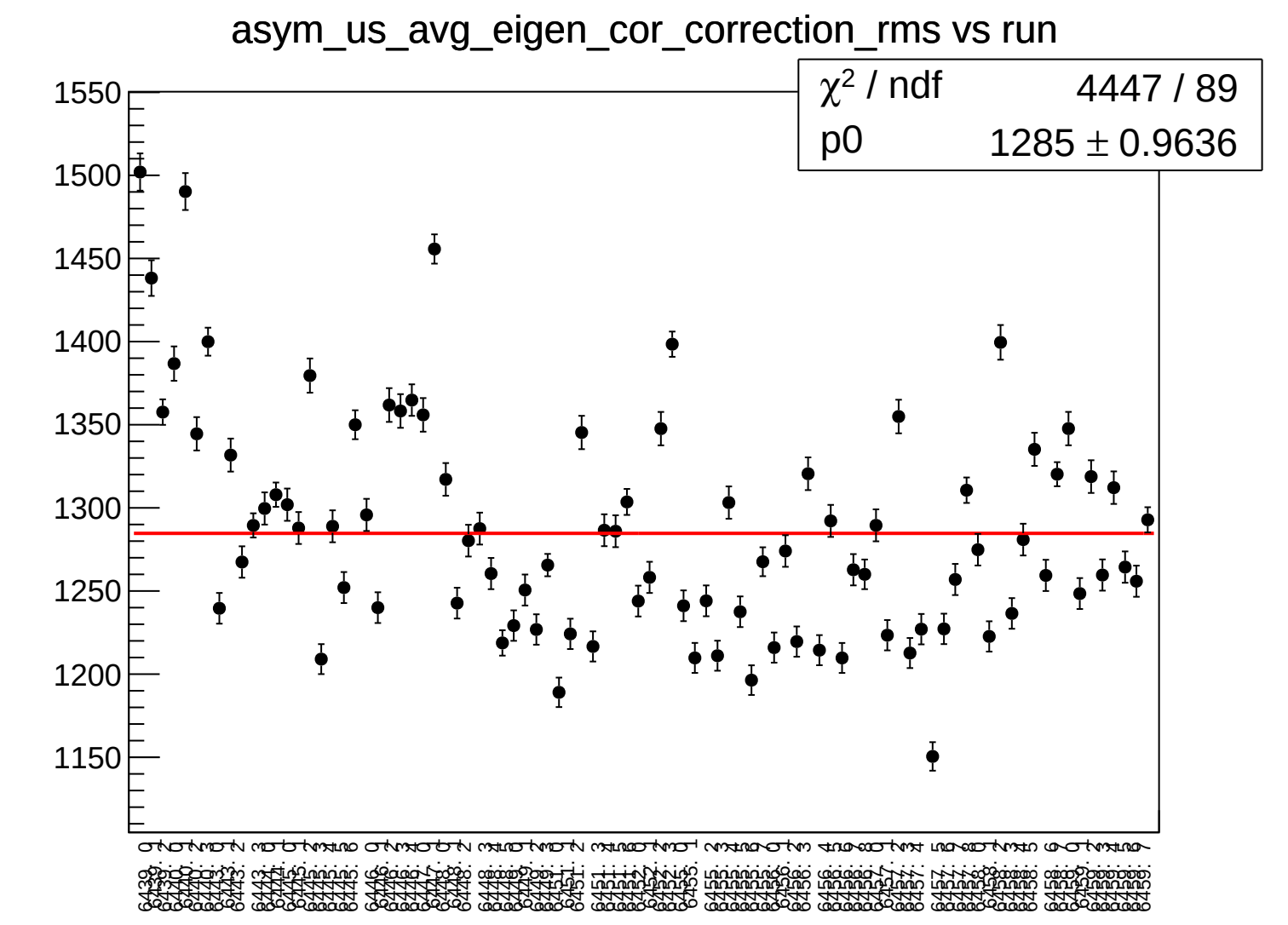

eigen_cor_asym_us_avg_mean vs run
χ² / ndf 108.1 / 89
p0 2310 ± 832.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean 317.2
Std Dev 0
2
1
0
−1
−2

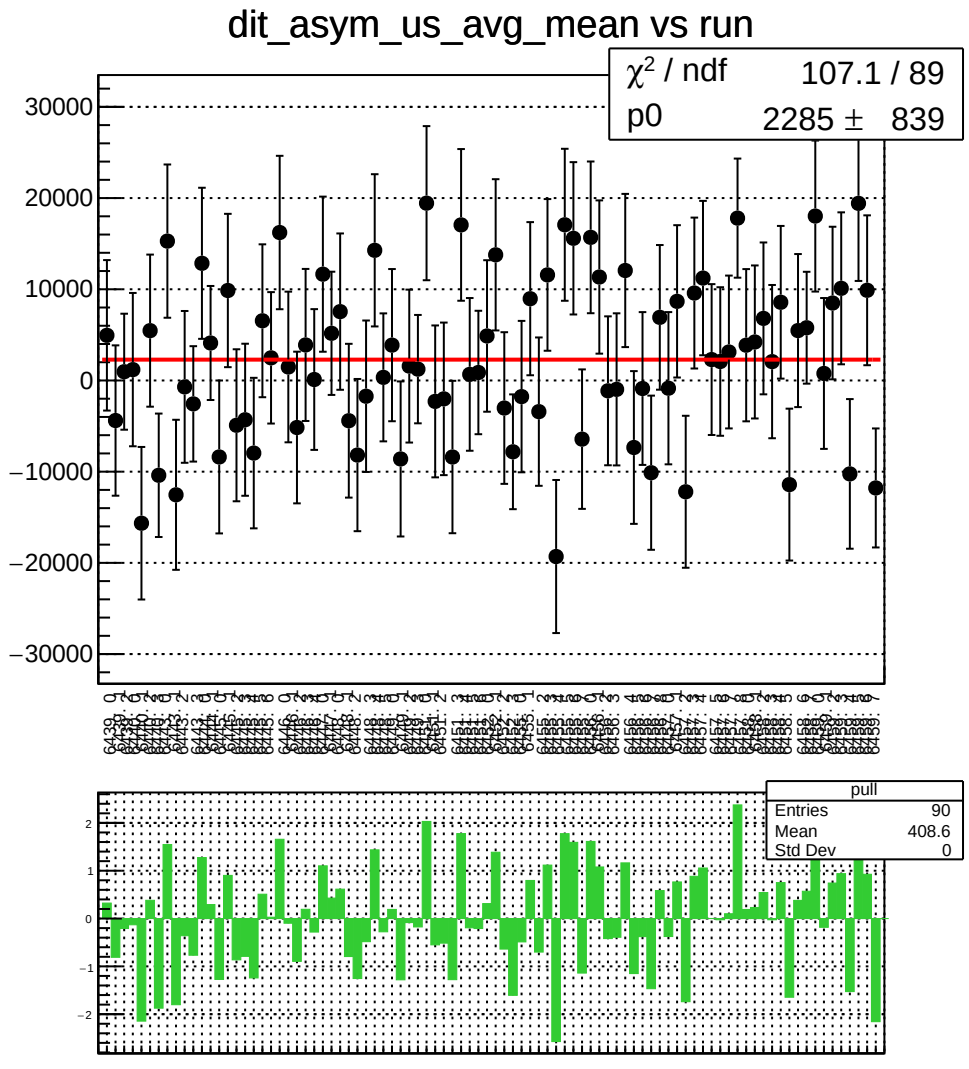

pull1D
Entries 90
Mean 0.01638
Std Dev 1.096
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

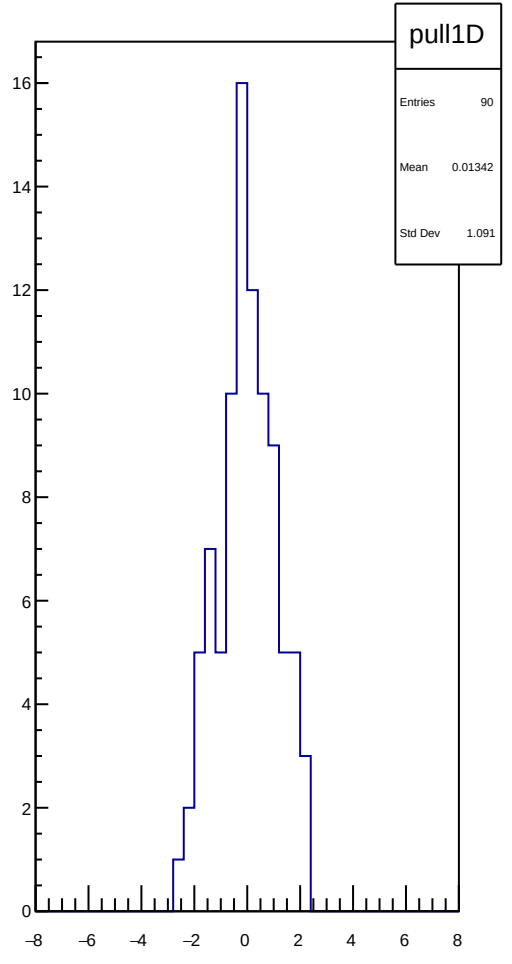

eigen_cor_asym_us_avg_rms vs run
χ² / ndf 127.8 / 89
p0 785.7 ± 0.5886
810
800
790
780
770
760

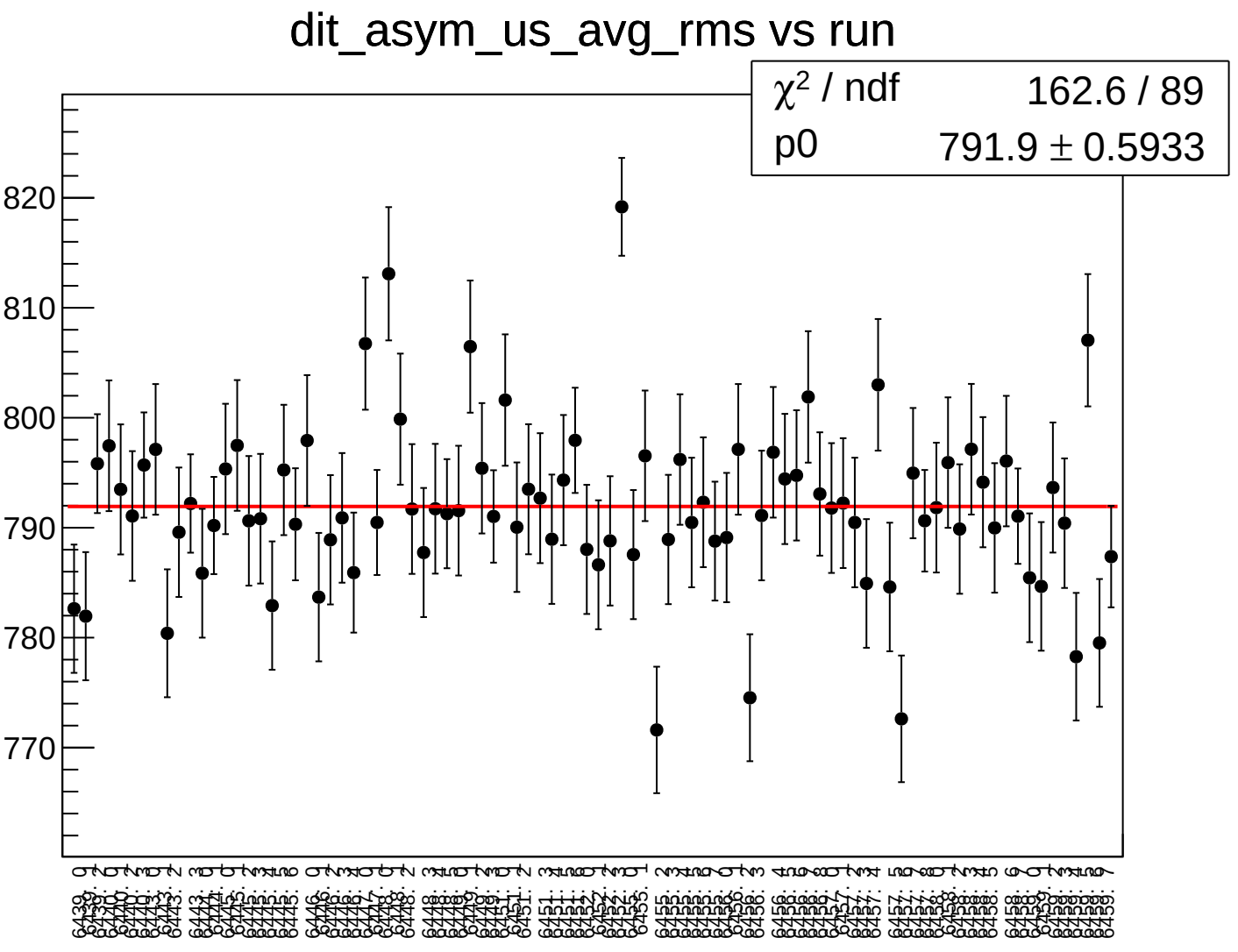

asym_us_avg_eigen_cor_correction_mean vs run
χ² / ndf 81.22 / 89
p0 −2200 ± 1363
pull
Entries 90
Mean −115.7
Std Dev 0

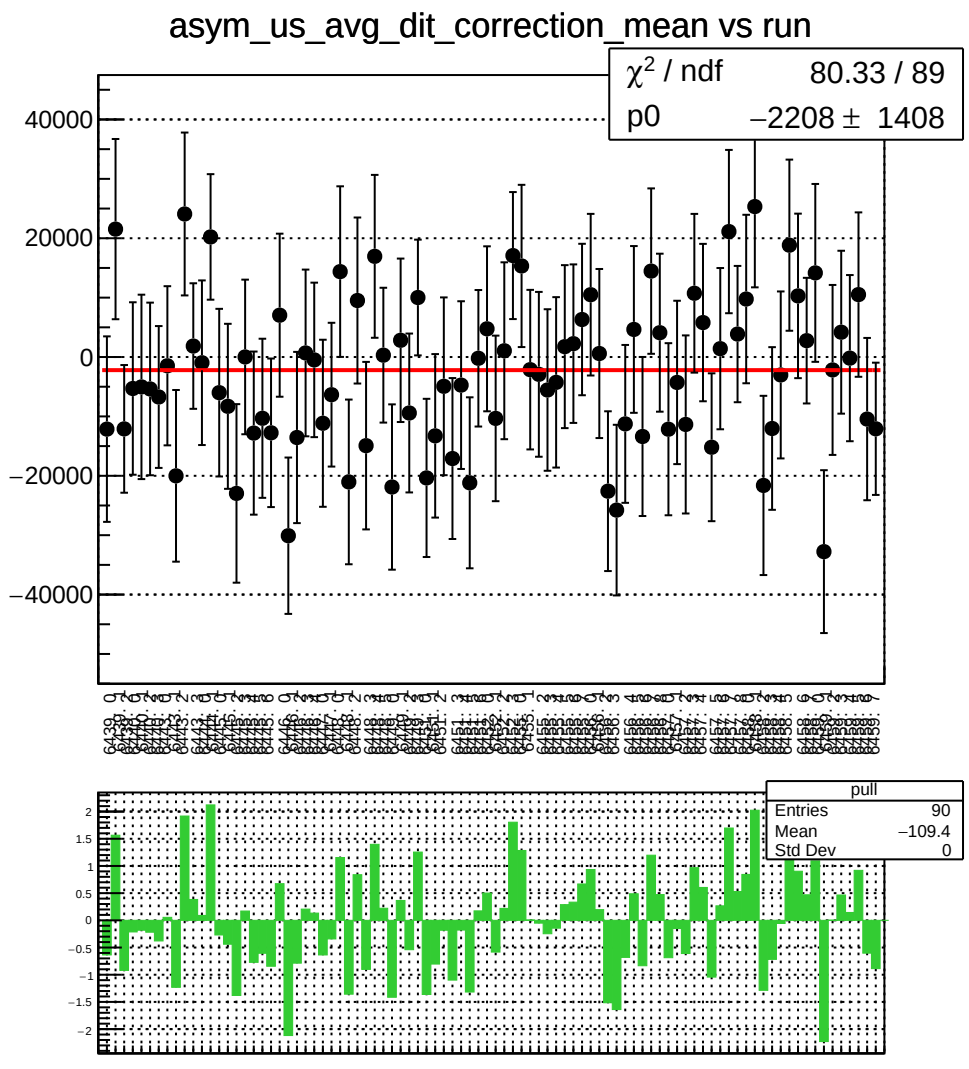

pull1D
Entries 90
Mean −0.01569
Std Dev 0.9498

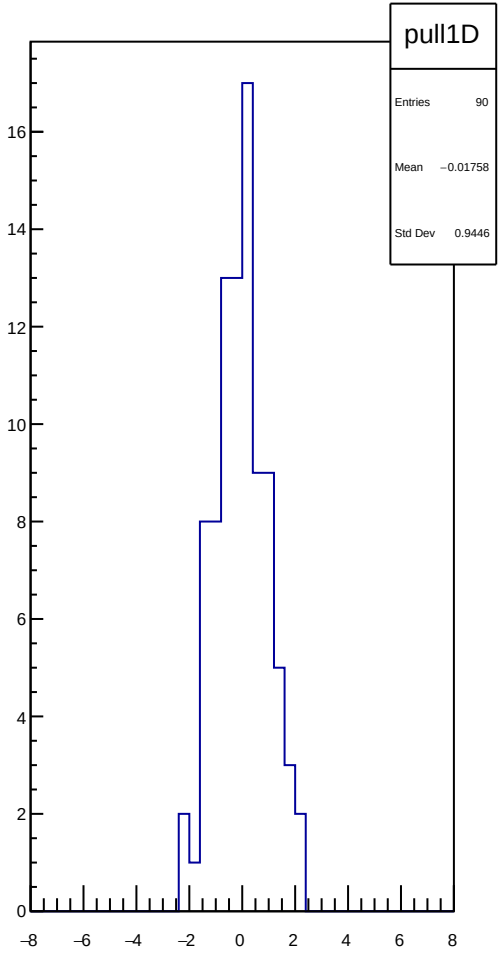

asym_us_avg_eigen_cor_correction_rms vs run
χ² / ndf 4447 / 89
p0 1285 ± 0.9636
1550
1500
1450
1400
1350
1300
1250
1200
1150

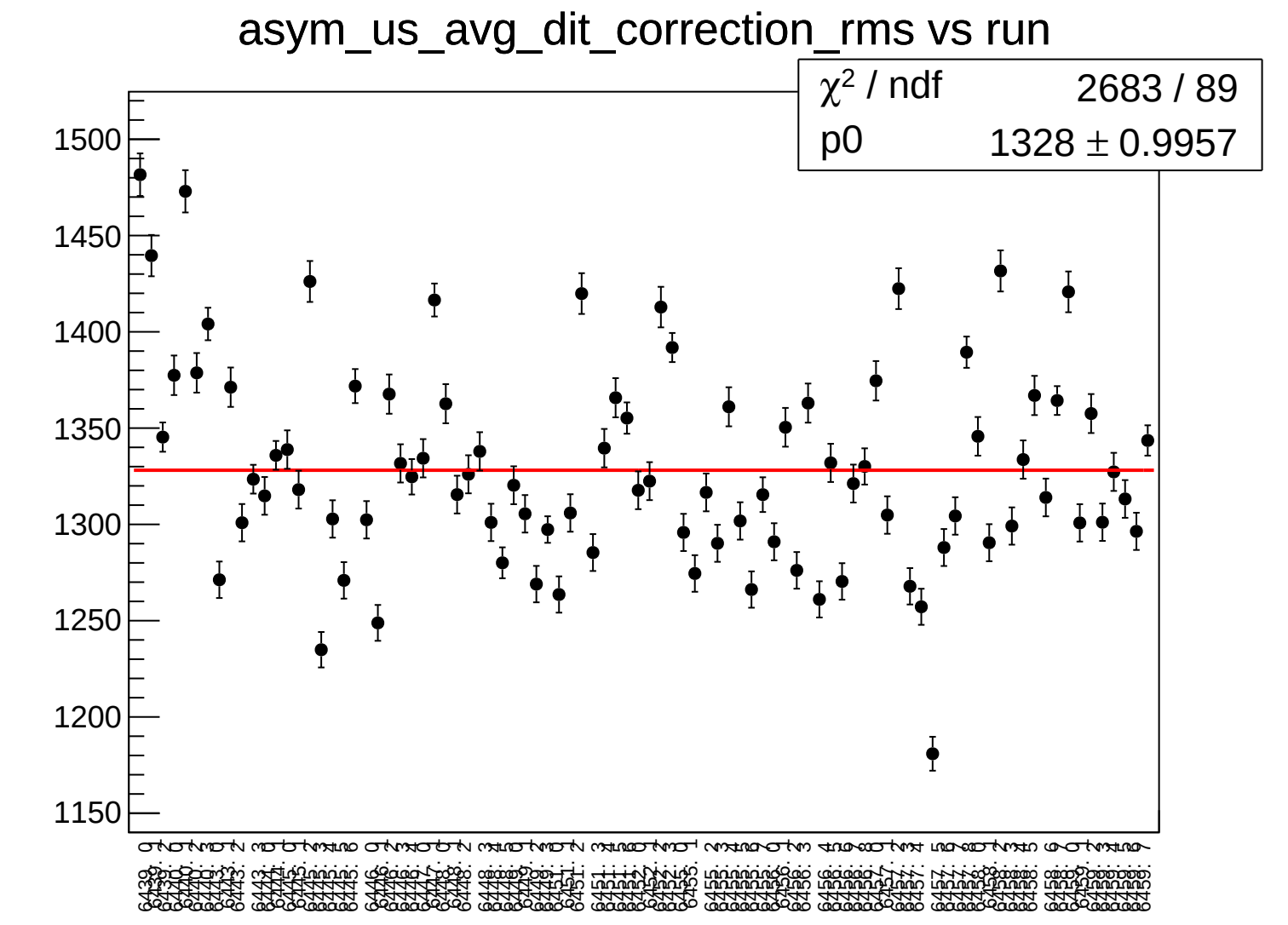

dit_asym_us_avg_mean vs run
χ² / ndf 107.1 / 89
p0 2285 ± 839
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean 408.6
Std Dev 0
2
1
0
−1
−2

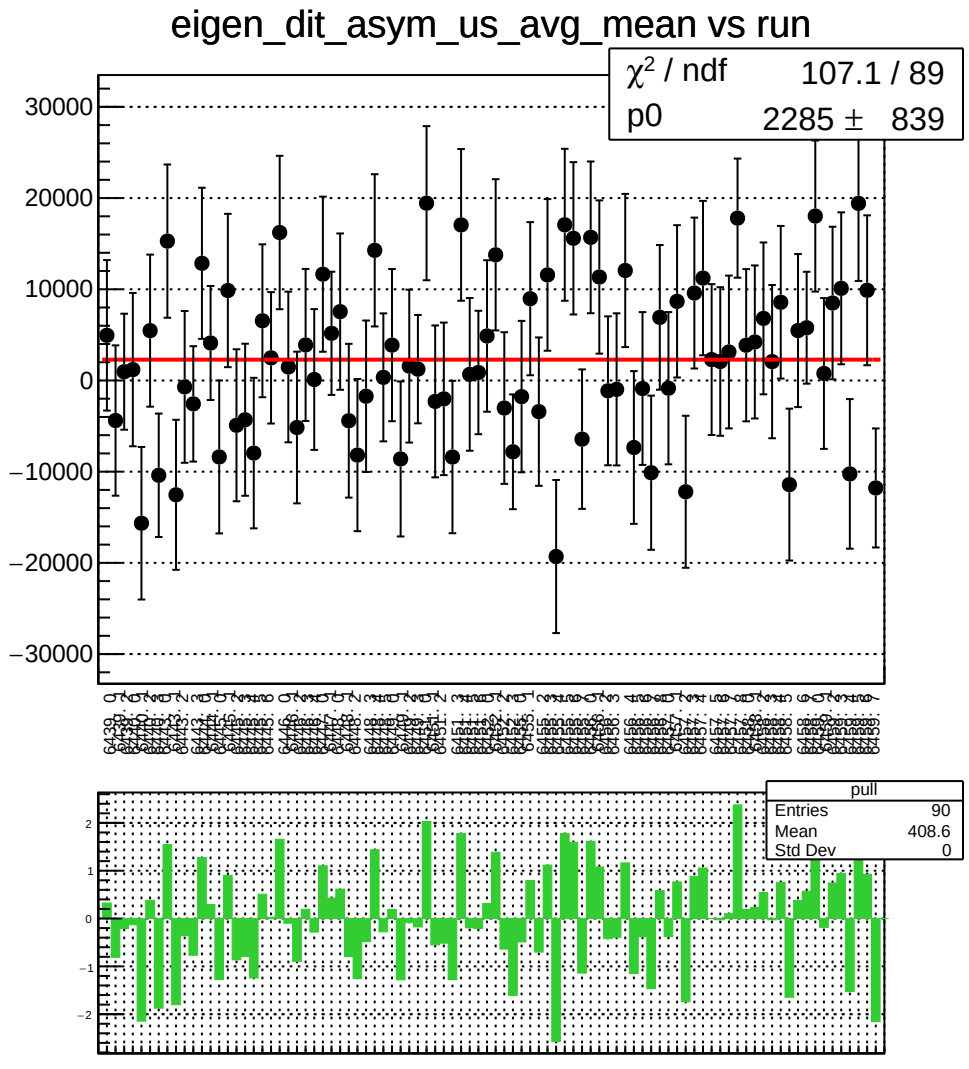

pull1D
Entries 90
Mean 0.01342
Std Dev 1.091
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

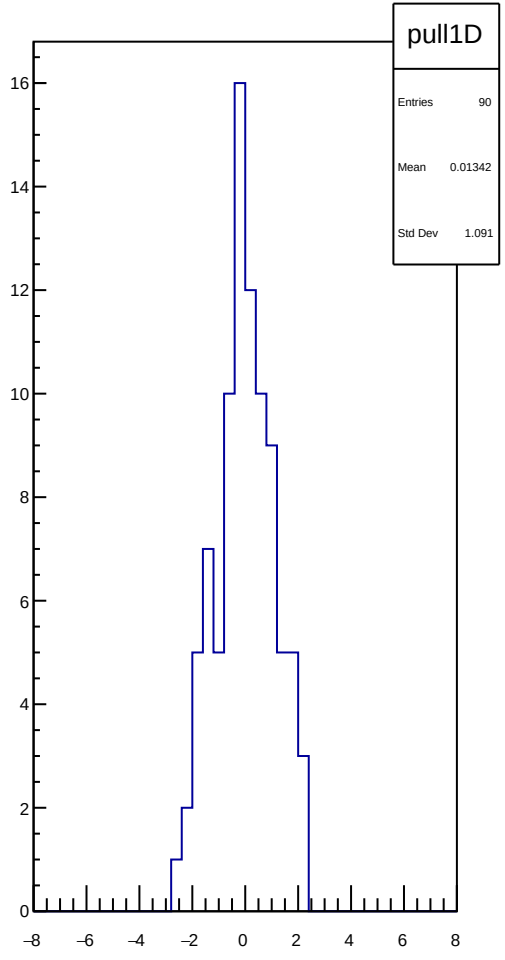

dit_asym_us_avg_rms vs run
χ² / ndf 162.6 / 89
p0 791.9 ± 0.5933
820
810
800
790
780
770

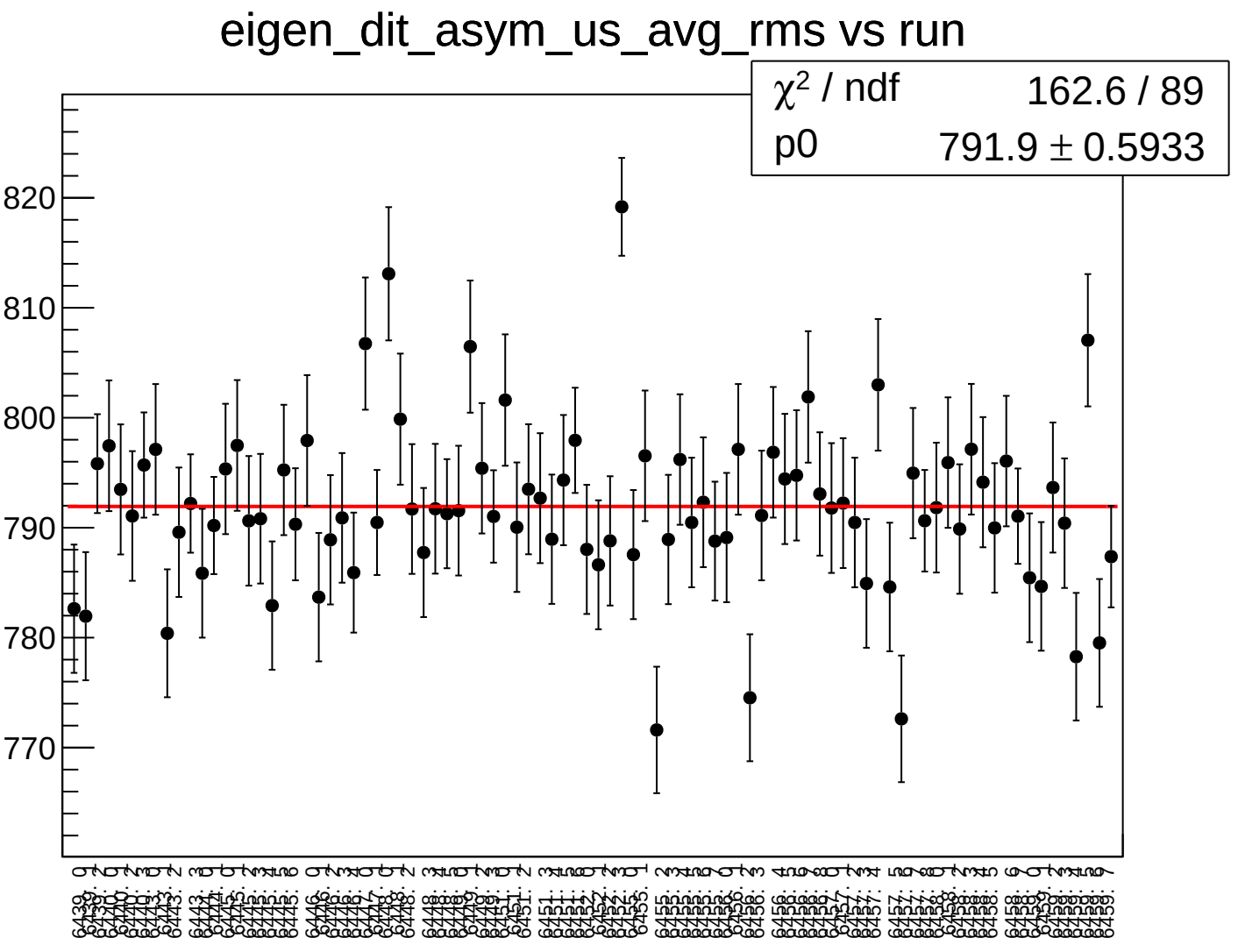

asym_us_avg_dit_correction_mean vs run
χ² / ndf 80.33 / 89
p0 −2208 ± 1408
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −109.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

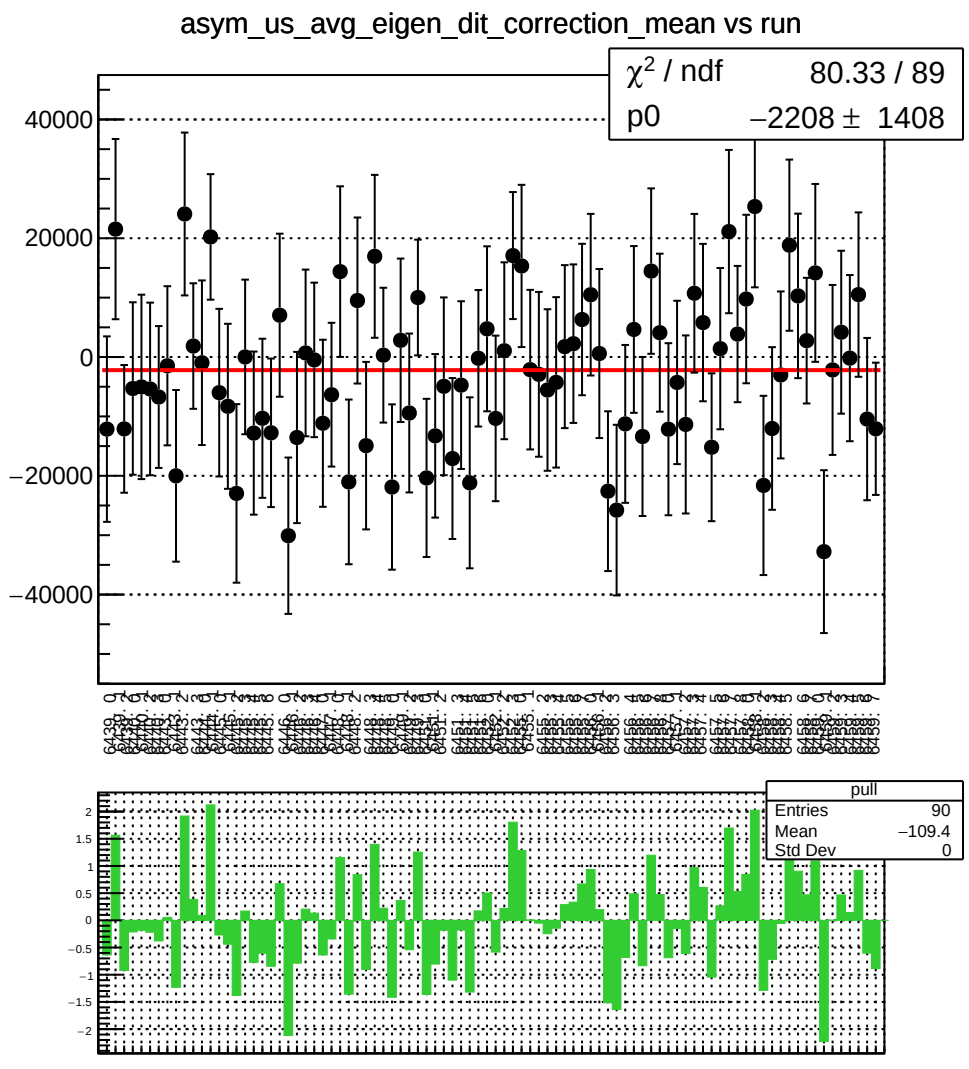

pull1D
Entries 90
Mean −0.01758
Std Dev 0.9446
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

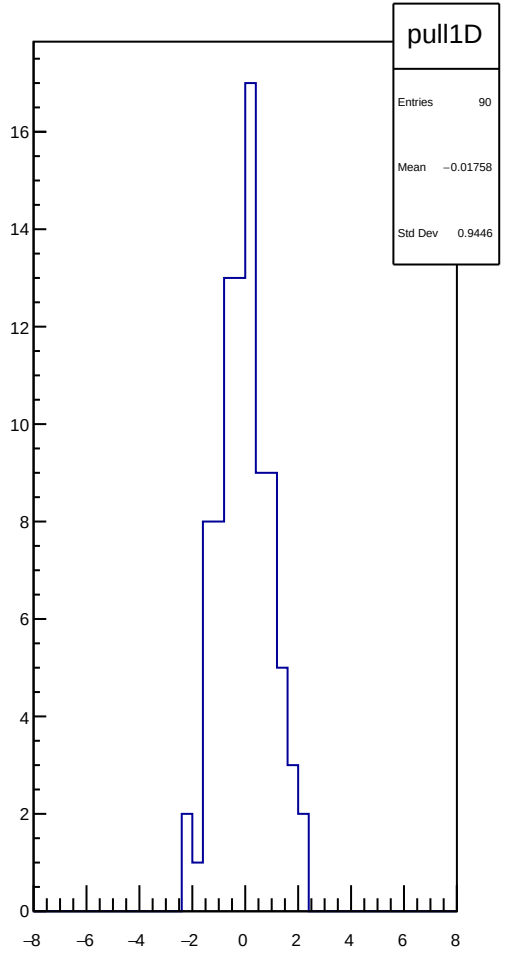

asym_us_avg_dit_correction_rms vs run
χ² / ndf 2683 / 89
p0 1328 ± 0.9957
1500
1450
1400
1350
1300
1250
1200
1150

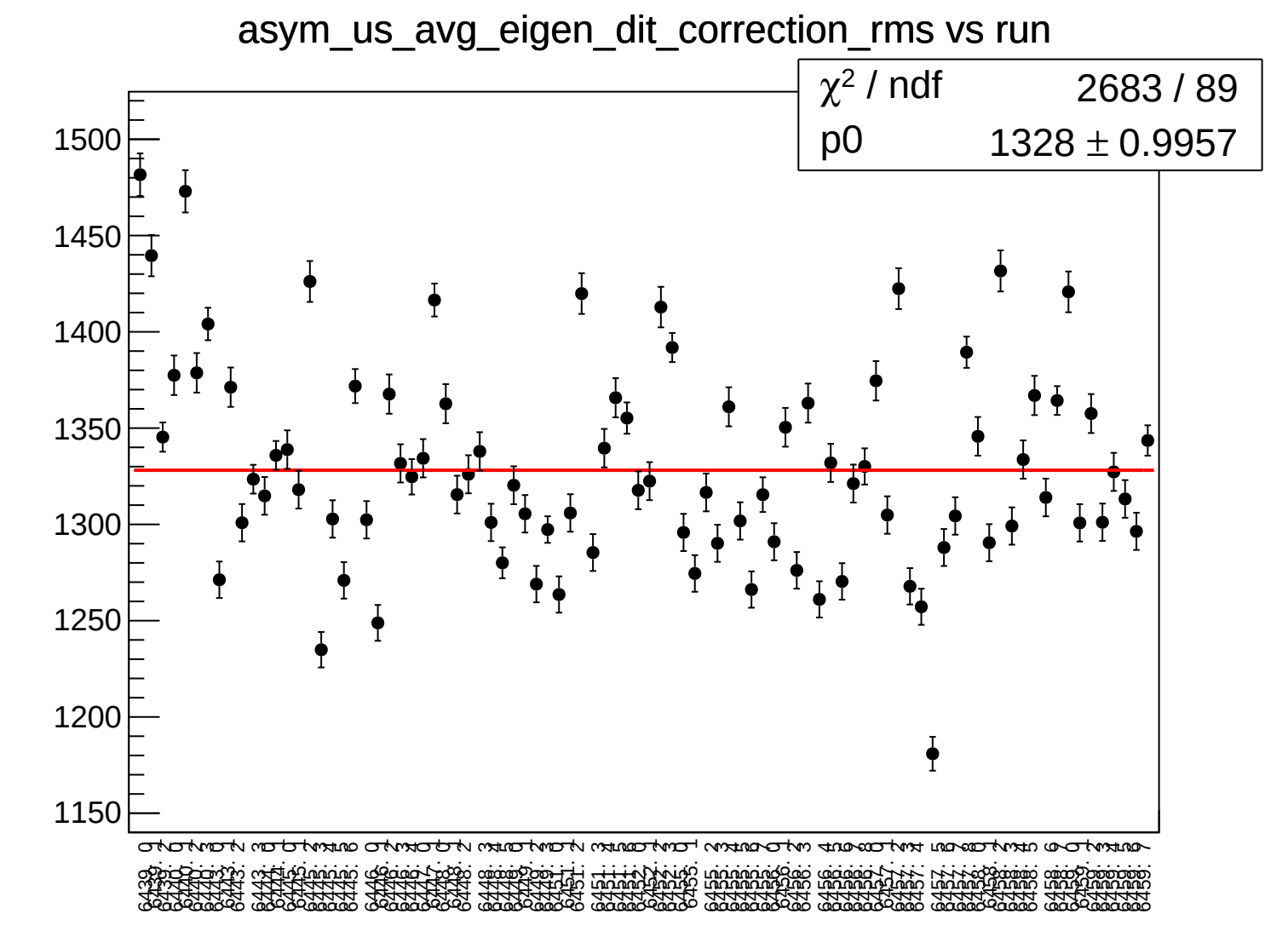

eigen_dit_asym_us_avg_mean vs run
χ² / ndf 107.1 / 89
p0 2285 ± 839
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean 408.6
Std Dev 0
2
1
0
−1
−2

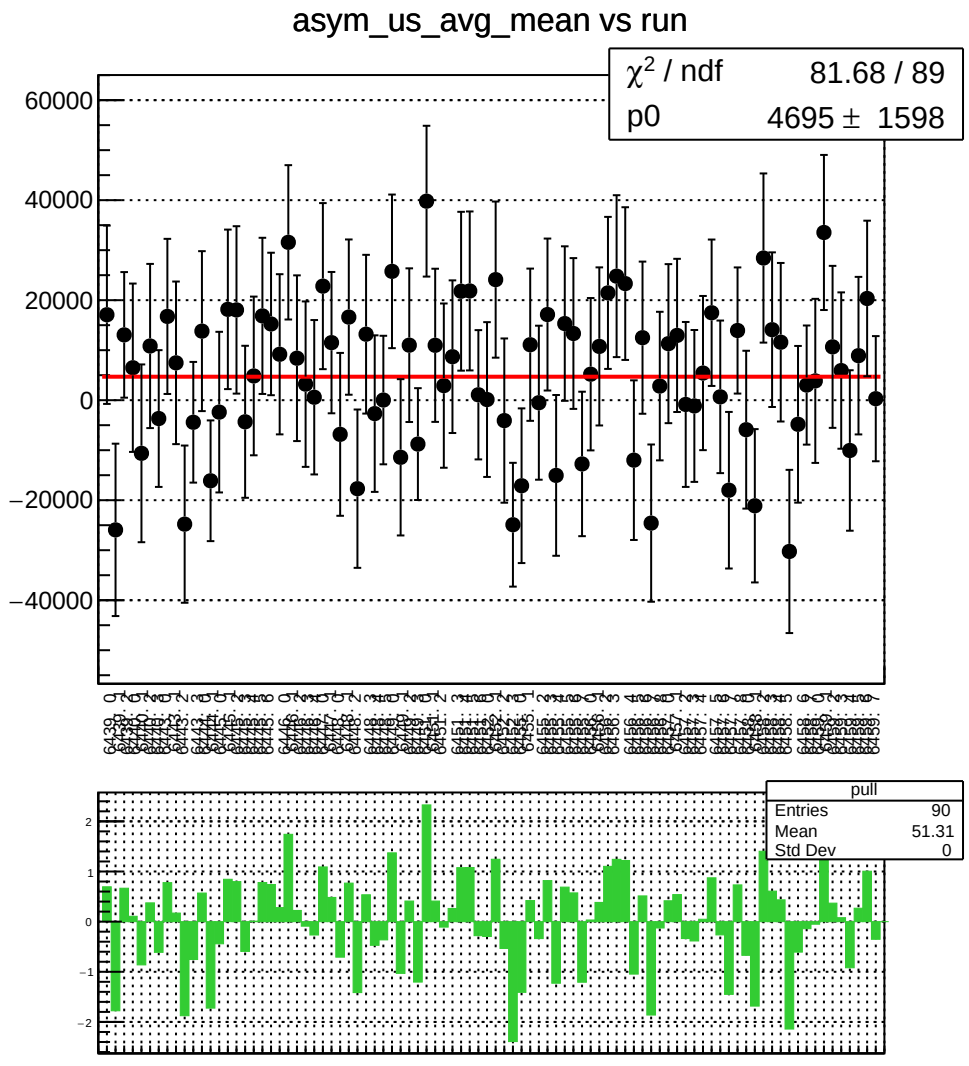

pull1D
Entries 90
Mean 0.01342
Std Dev 1.091
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

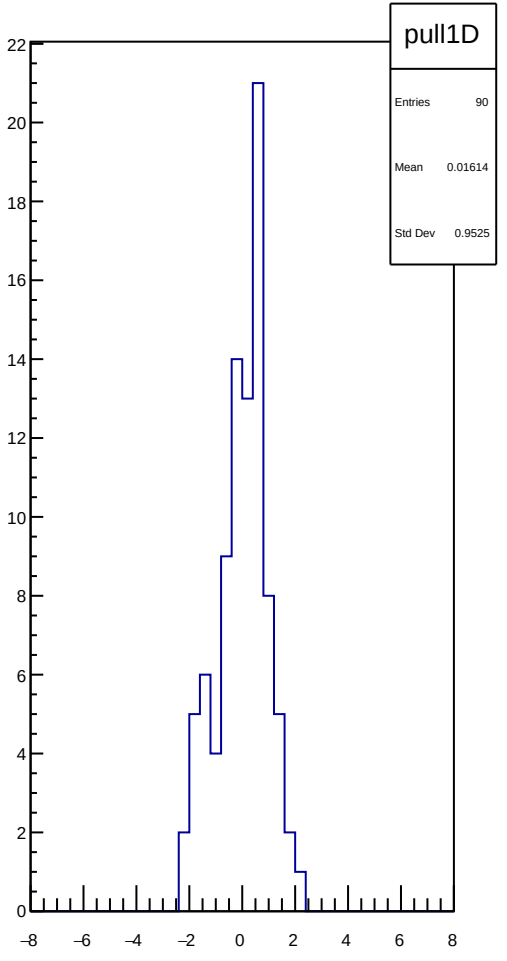

eigen_dit_asym_us_avg_rms vs run
χ² / ndf 162.6 / 89
p0 791.9 ± 0.5933
820
810
800
790
780
770

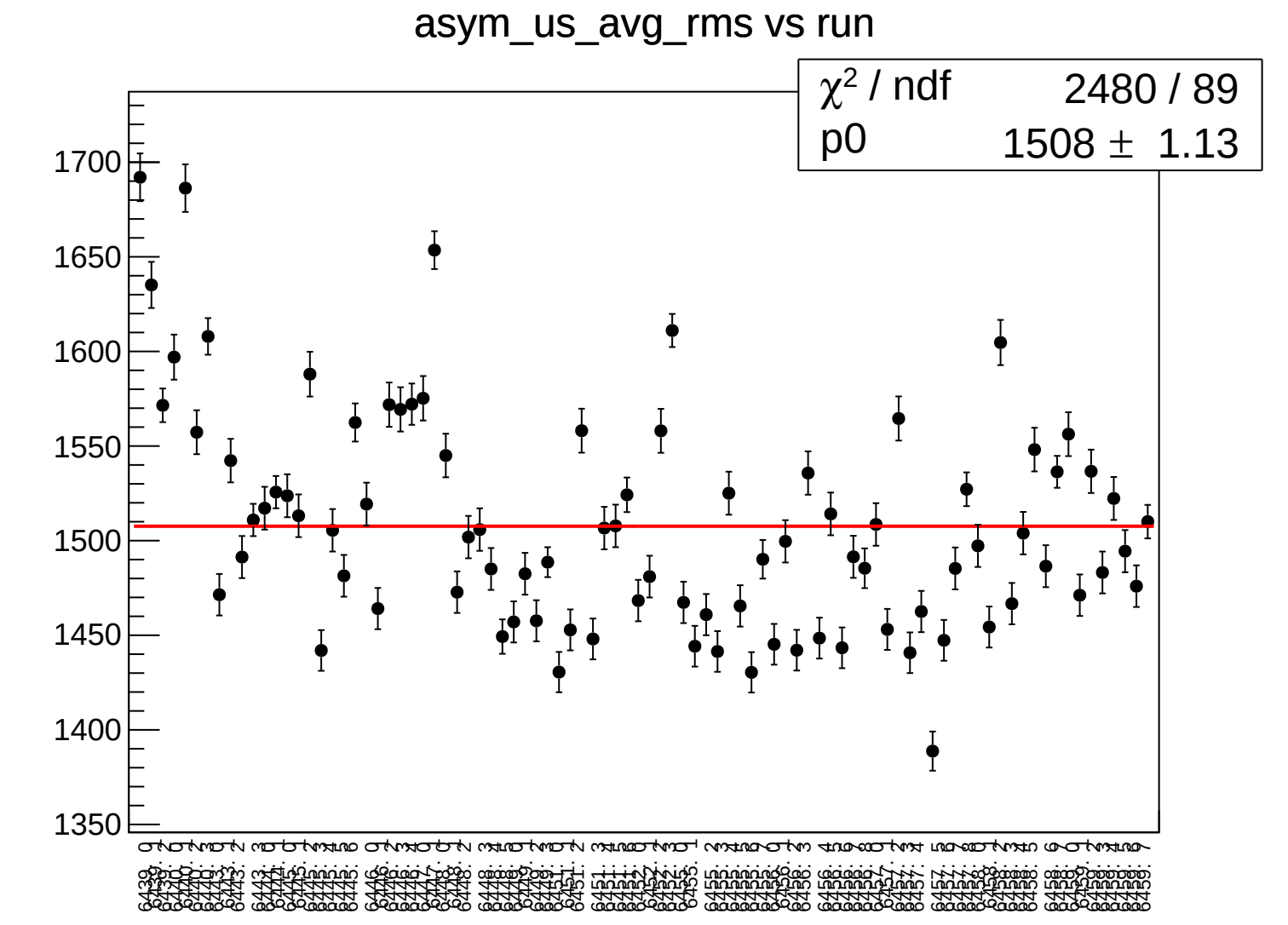

asym_us_avg_eigen_dit_correction_mean vs run
χ² / ndf 80.33 / 89
p0 −2208 ± 1408
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −109.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

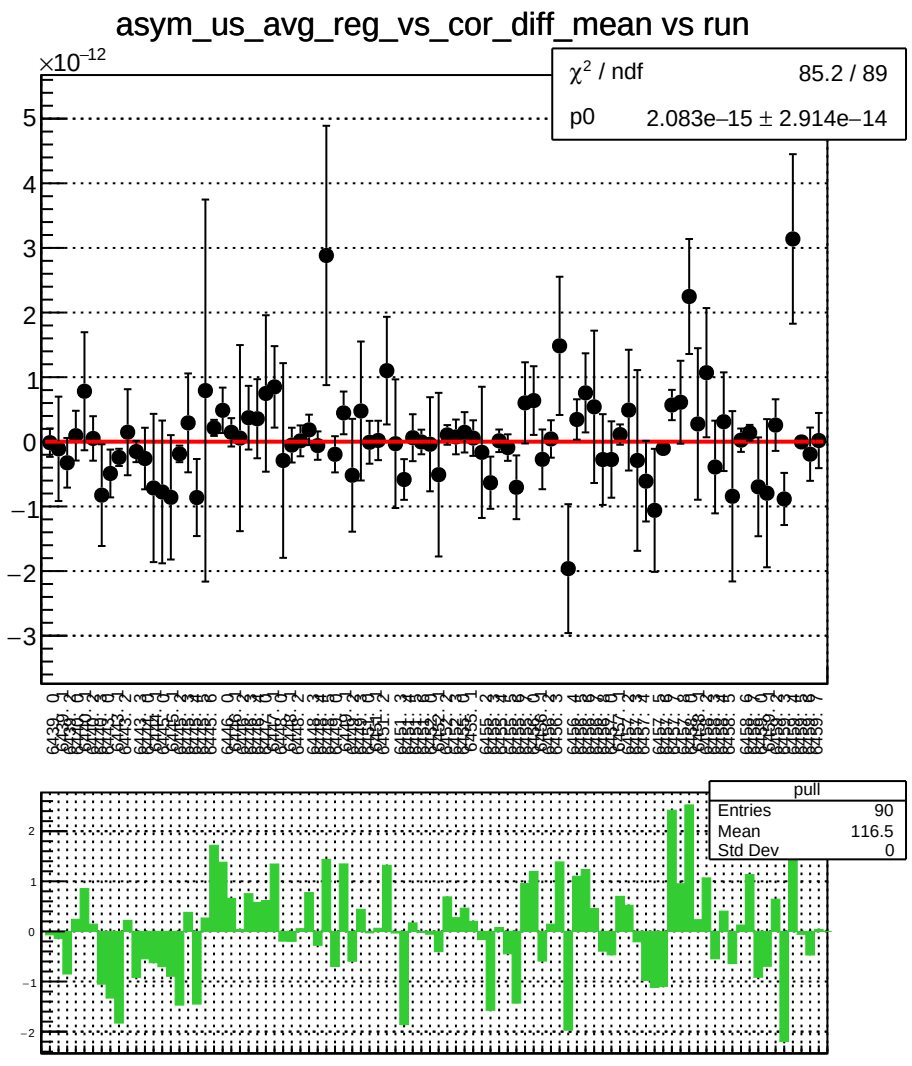

pull1D
Entries 90
Mean −0.01758
Std Dev 0.9446
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

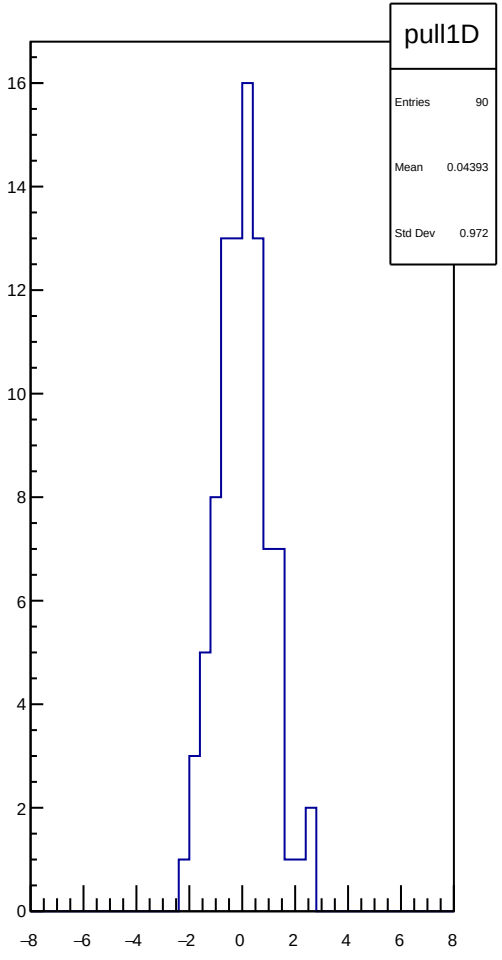

asym_us_avg_eigen_dit_correction_rms vs run
χ² / ndf 2683 / 89
p0 1328 ± 0.9957
1500
1450
1400
1350
1300
1250
1200
1150

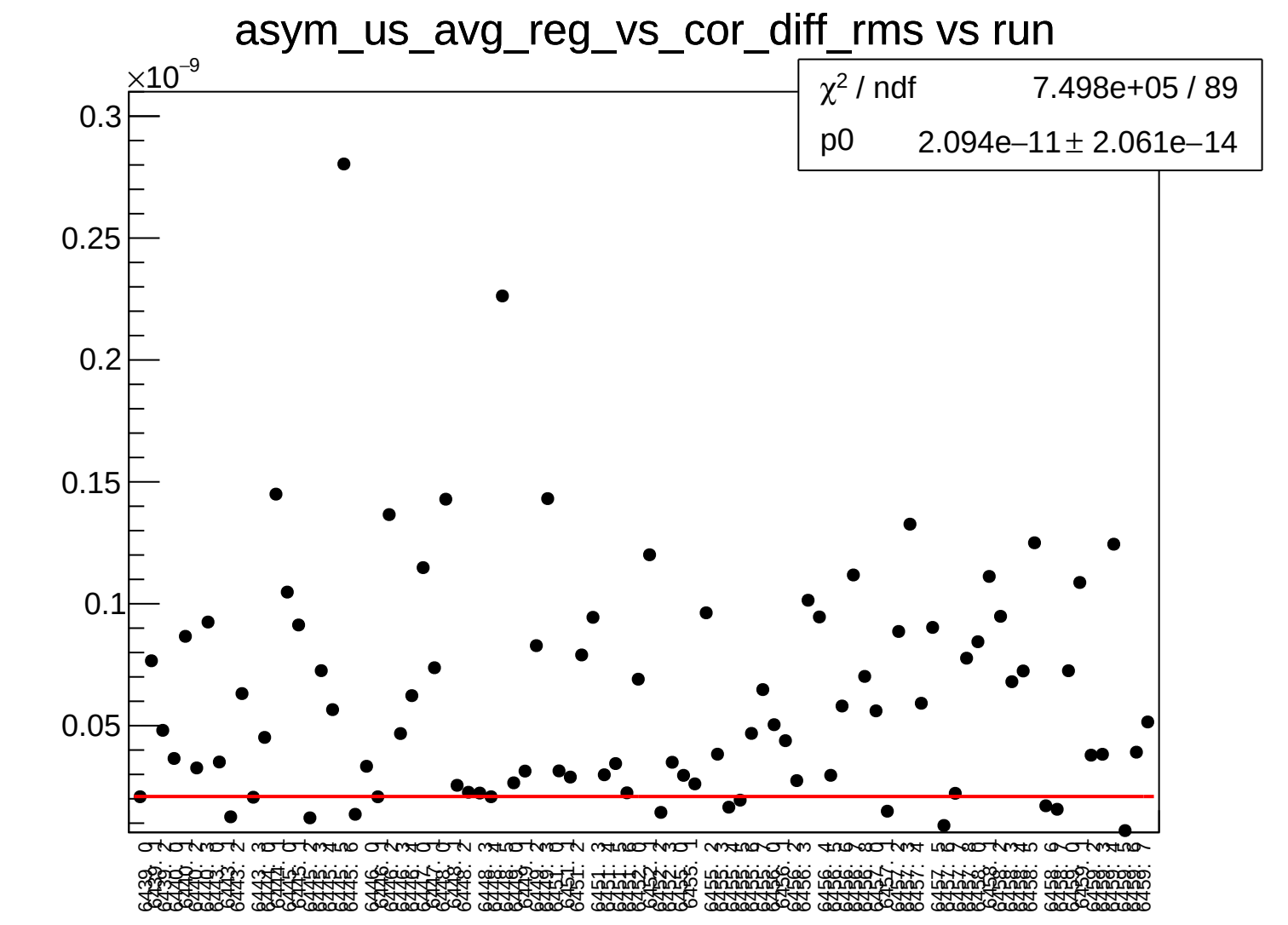

asym_us_avg_mean vs run
χ² / ndf 81.68 / 89
p0 4695 ± 1598
60000
40000
20000
0
−20000
−40000
pull
Entries 90
Mean 51.31
Std Dev 0
2
1
0
−1
−2

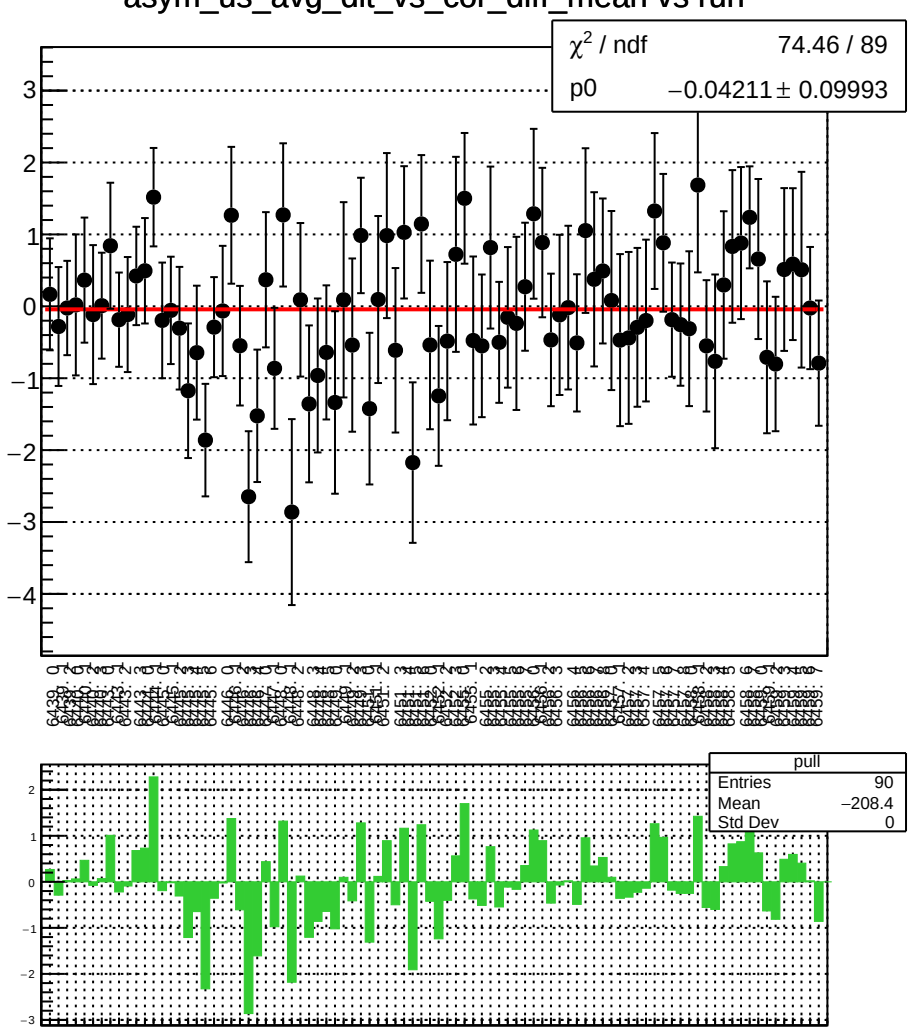

pull1D
Entries 90
Mean 0.01614
Std Dev 0.9525
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

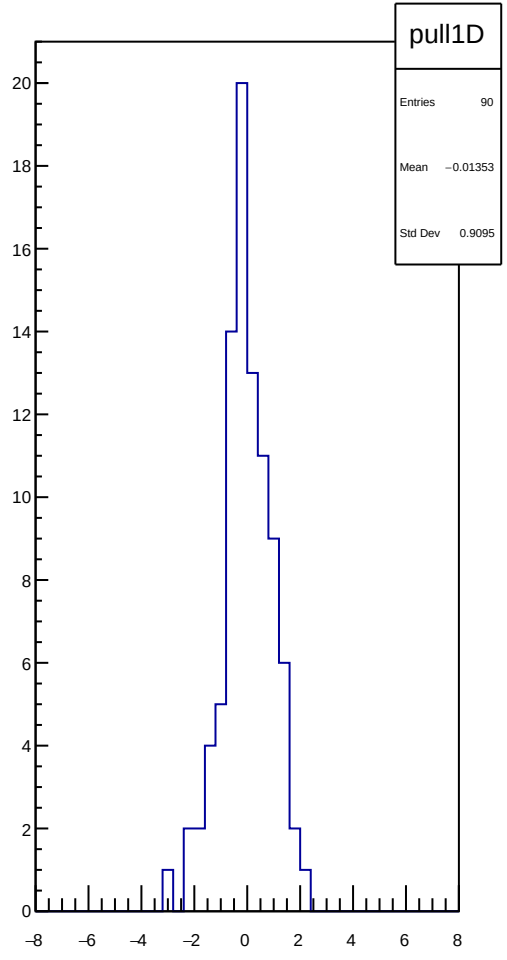

asym_us_avg_rms vs run
χ² / ndf 2480 / 89
p0 1508 ± 1.13
1700
1650
1600
1550
1500
1450
1400
1350

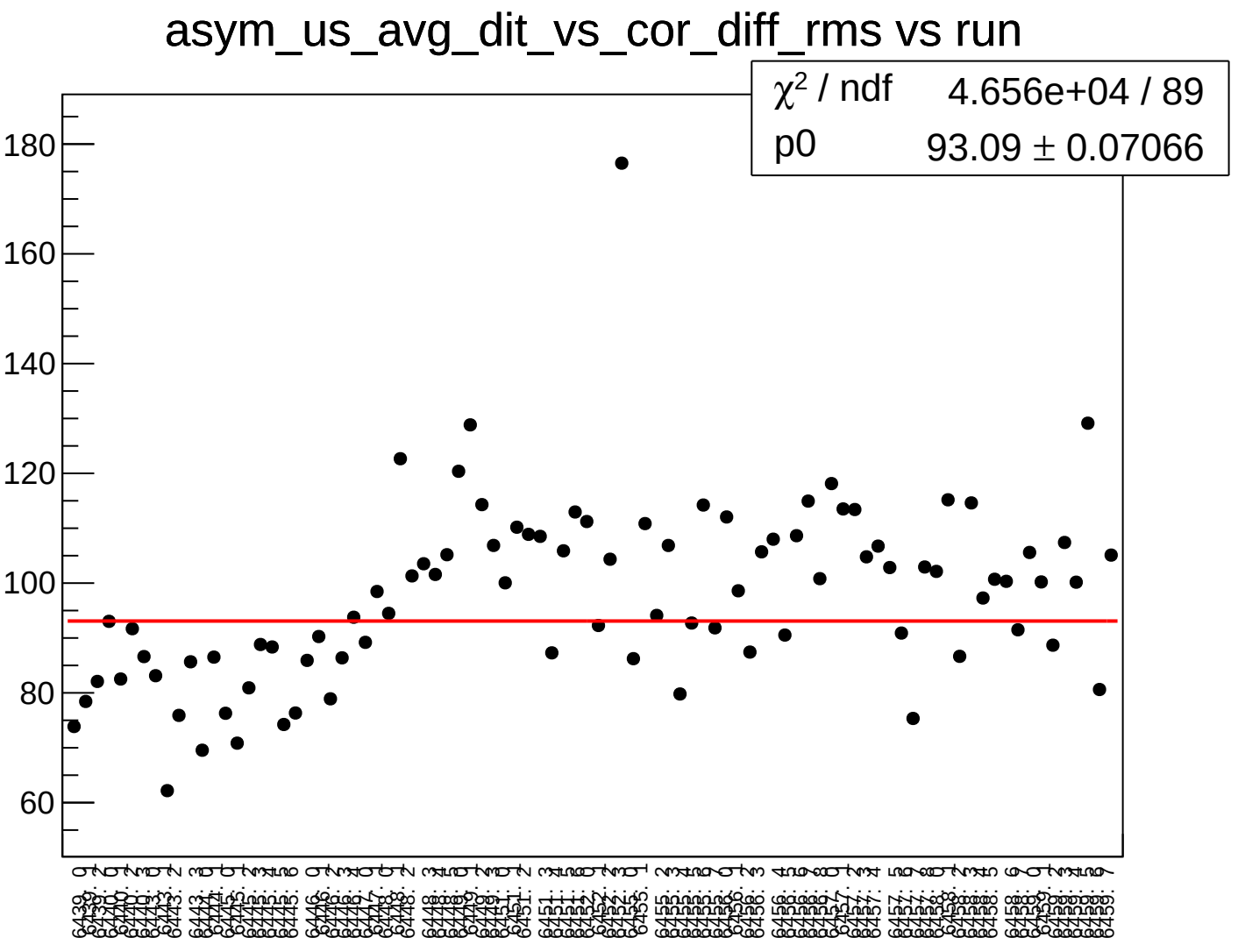

asym_us_avg_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.2 / 89
p0 2.083e−15 ± 2.914e−14
pull
Entries 90
Mean 116.5
Std Dev 0

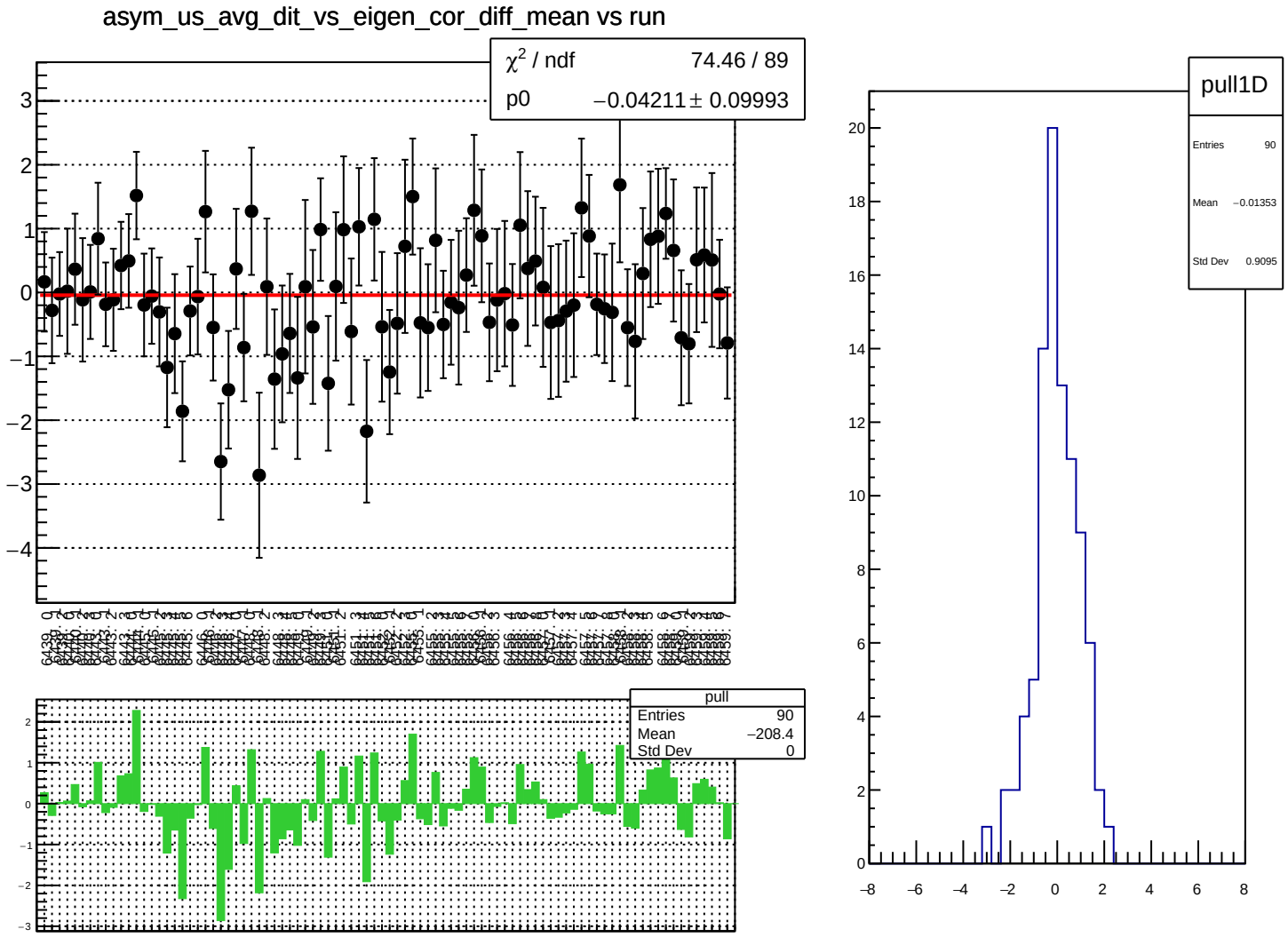

pull1D
Entries 90
Mean 0.04393
Std Dev 0.972

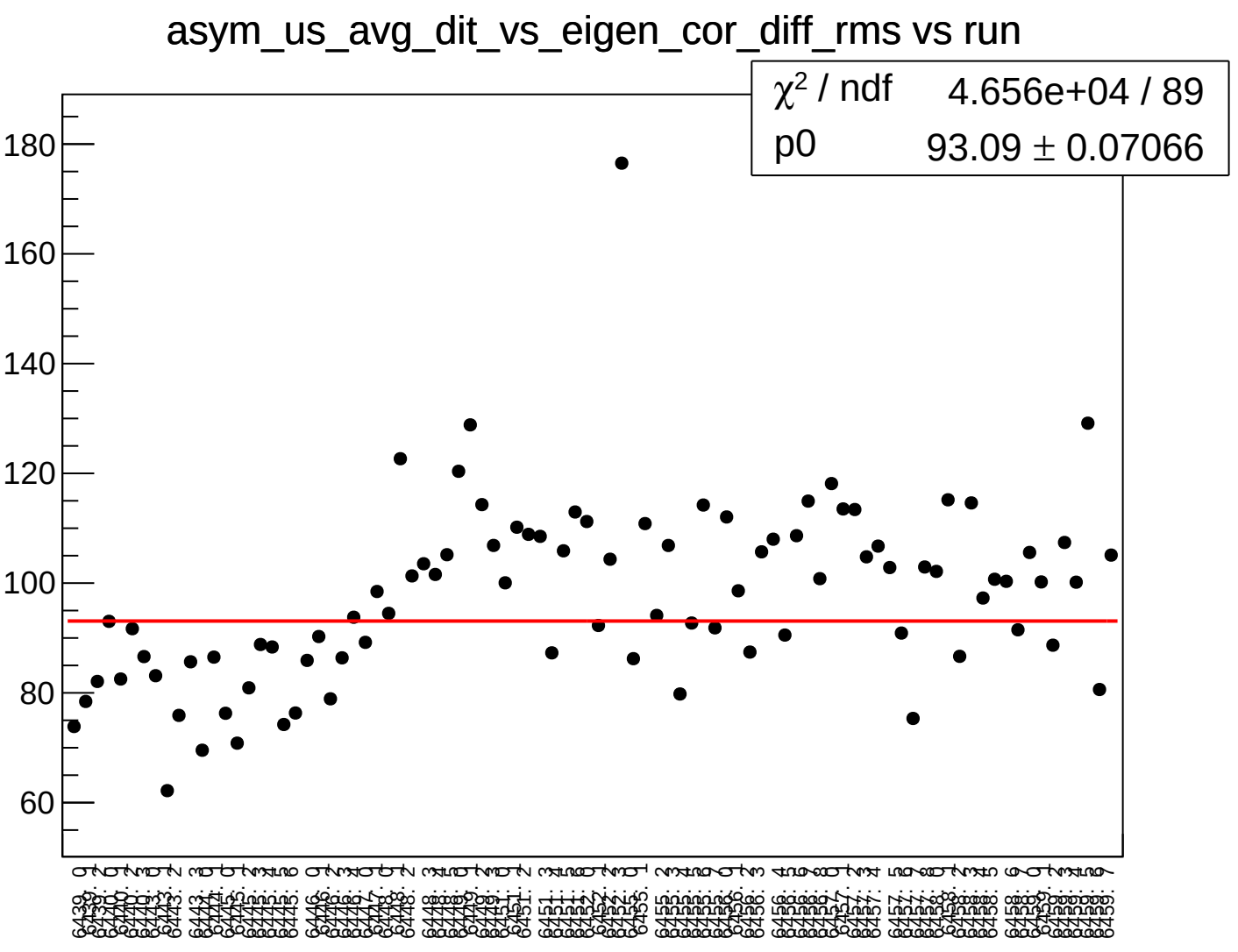

asym_us_avg_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.498e+05 / 89
p0 2.094e−11 ± 2.061e−14
0.3
0.25
0.2
0.15
0.1
0.05

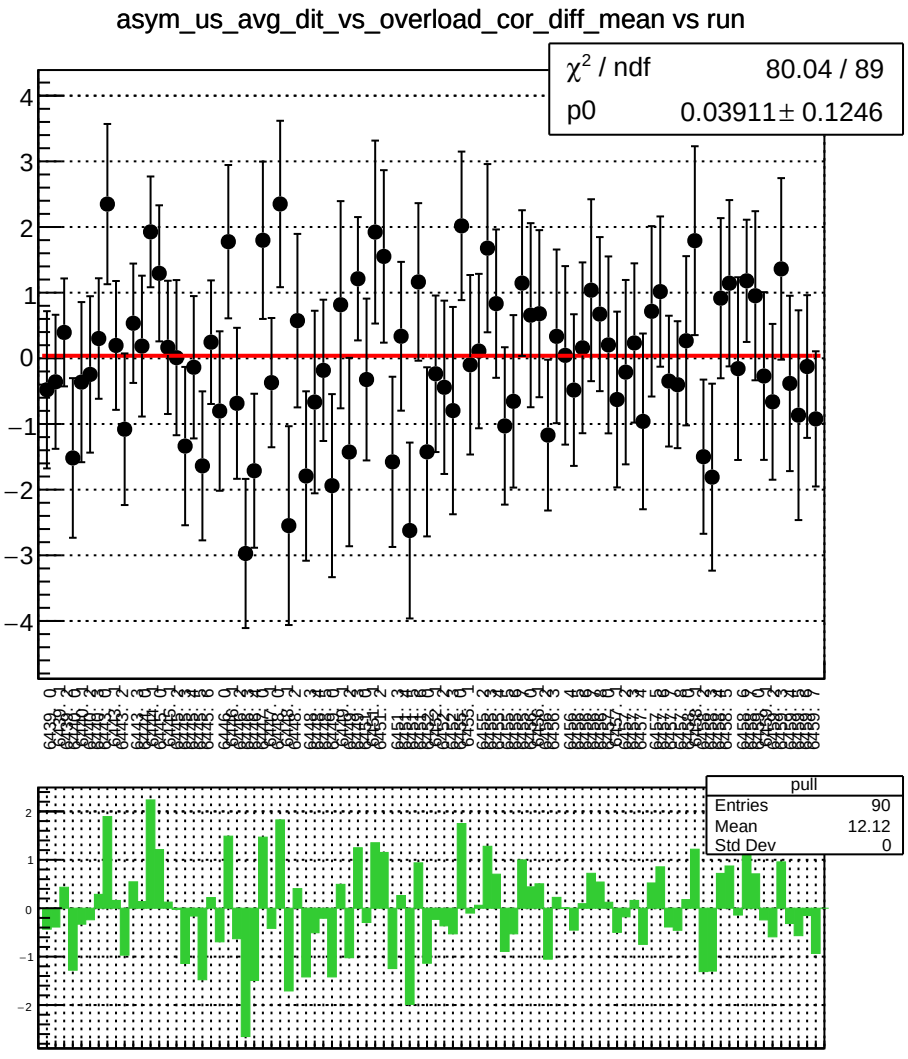

asym_us_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 74.46 / 89
p0 −0.04211 ± 0.09993
pull
Entries 90
Mean −208.4
Std Dev 0

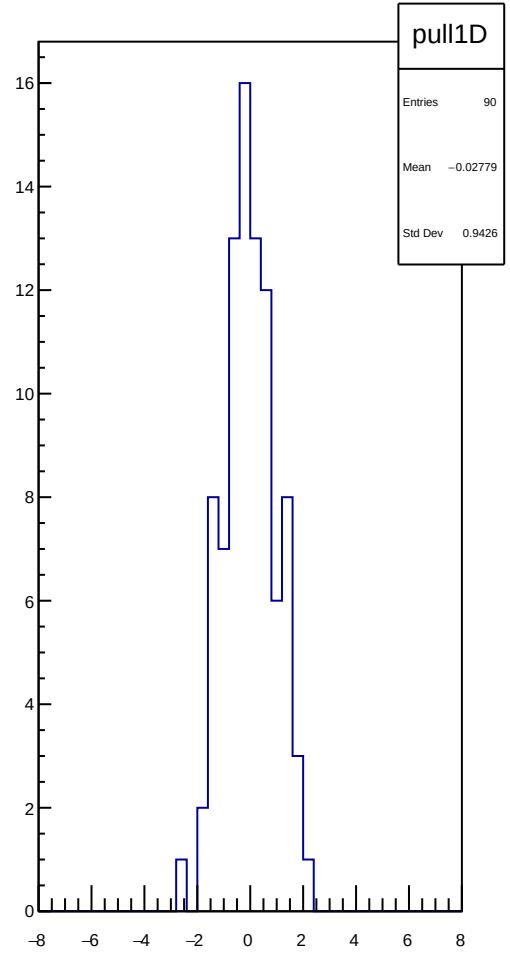

pull1D
Entries 90
Mean −0.01353
Std Dev 0.9095

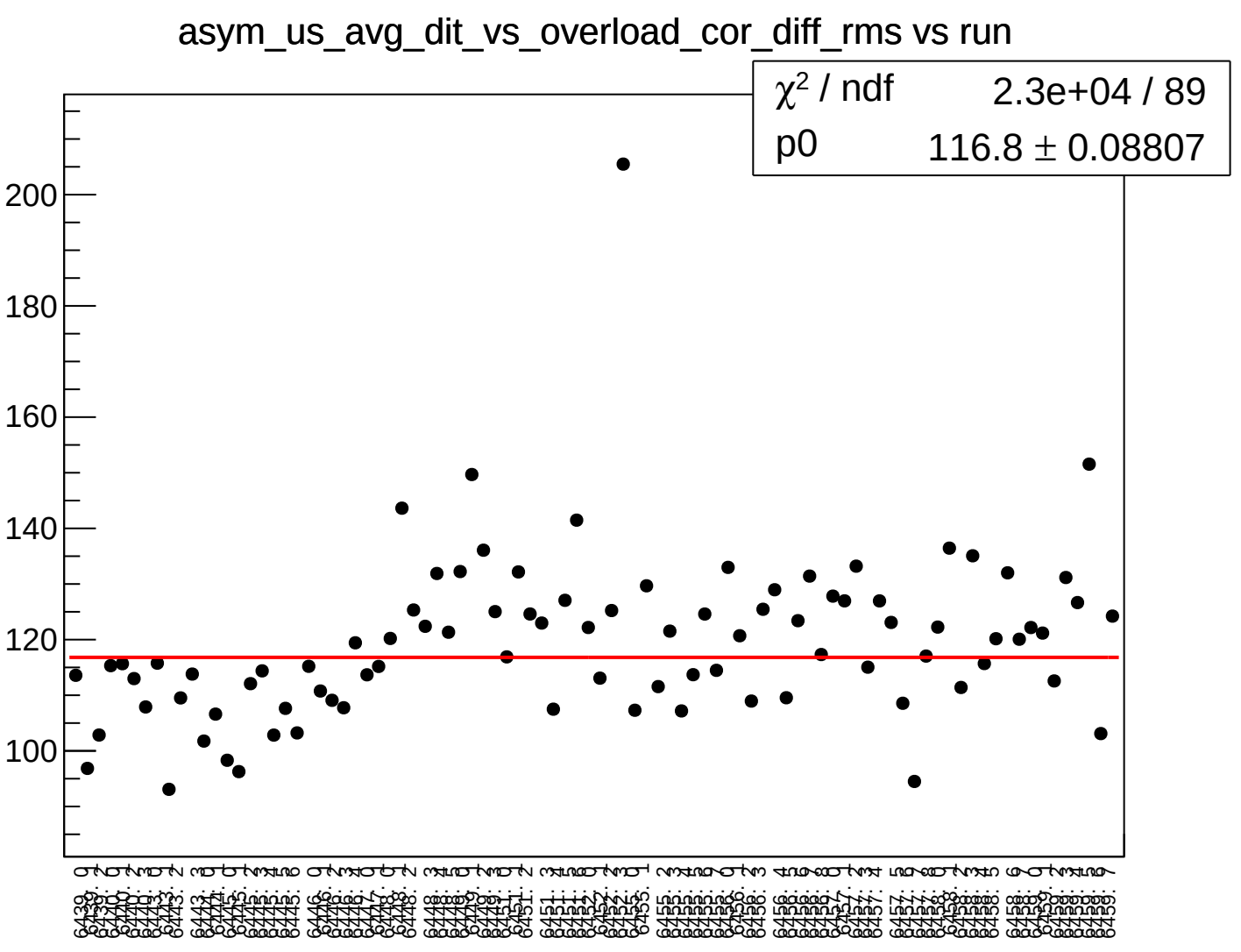

asym_us_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.656e+04 / 89
p0 93.09 ± 0.07066
180
160
140
120
100
80
60

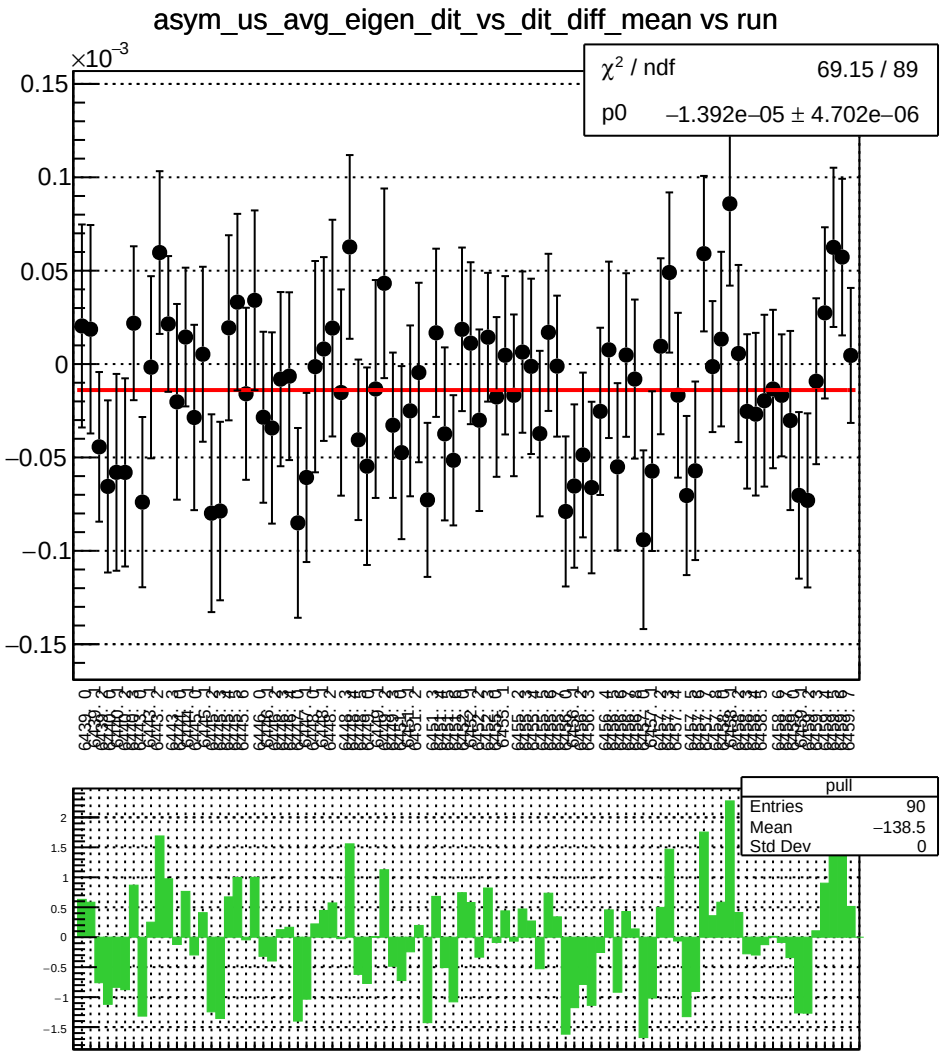

asym_us_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.46 / 89
p0 −0.04211 ± 0.09993
pull
Entries 90
Mean −208.4
Std Dev 0
pull1D
Entries 90
Mean −0.01353
Std Dev 0.9095

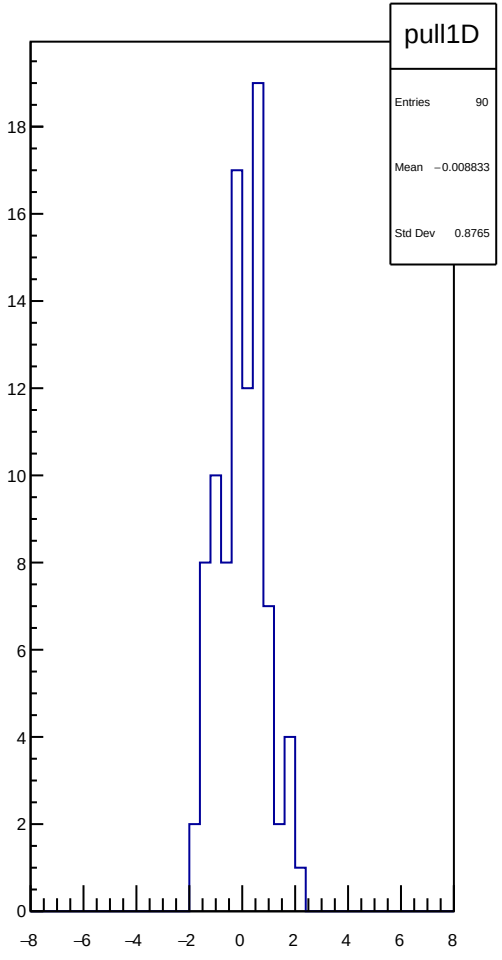

asym_us_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.656e+04 / 89
p0 93.09 ± 0.07066
180
160
140
120
100
80
60

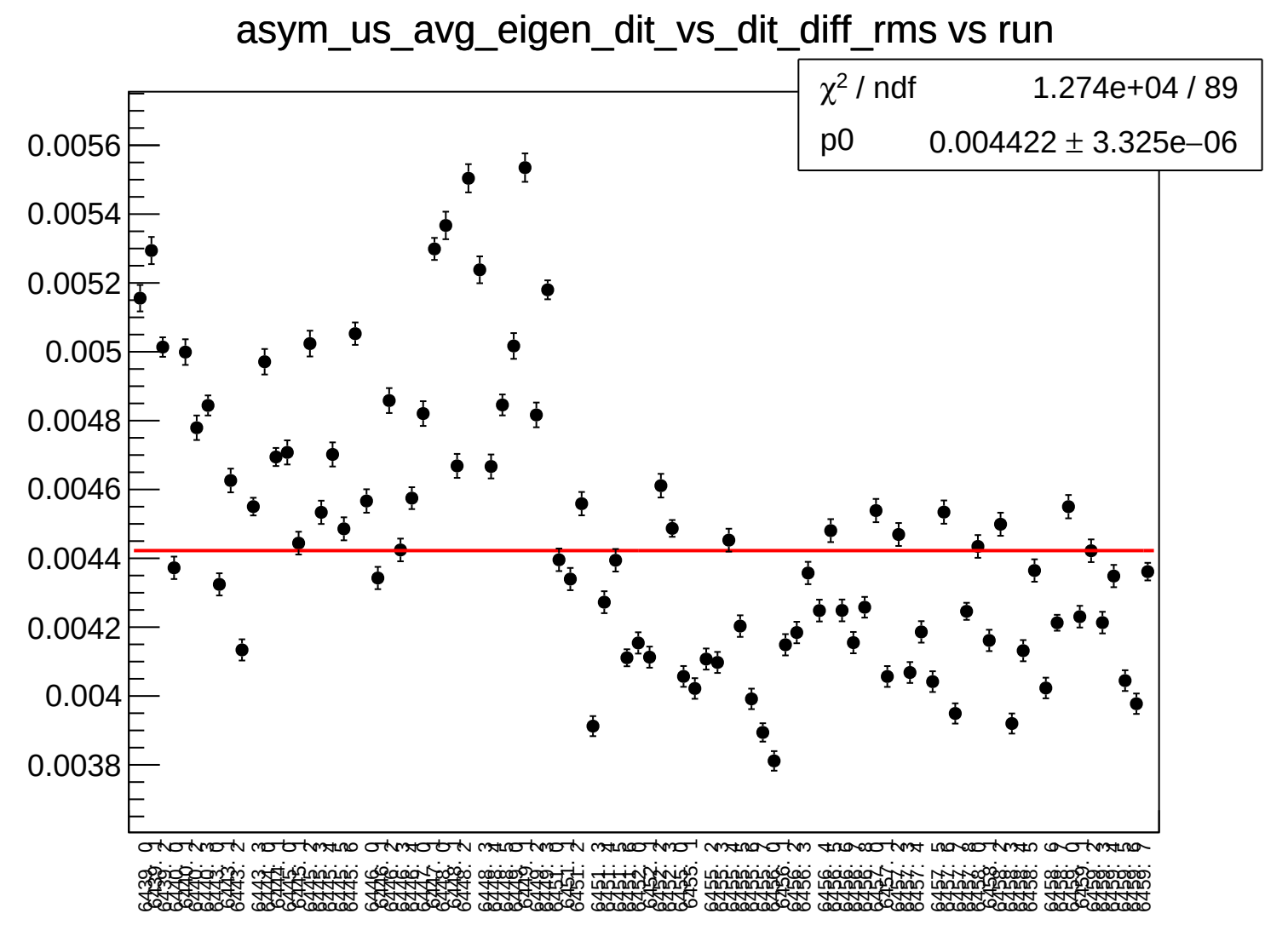

asym_us_avg_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 80.04 / 89
p0 0.03911 ± 0.1246
pull
Entries 90
Mean 12.12
Std Dev 0

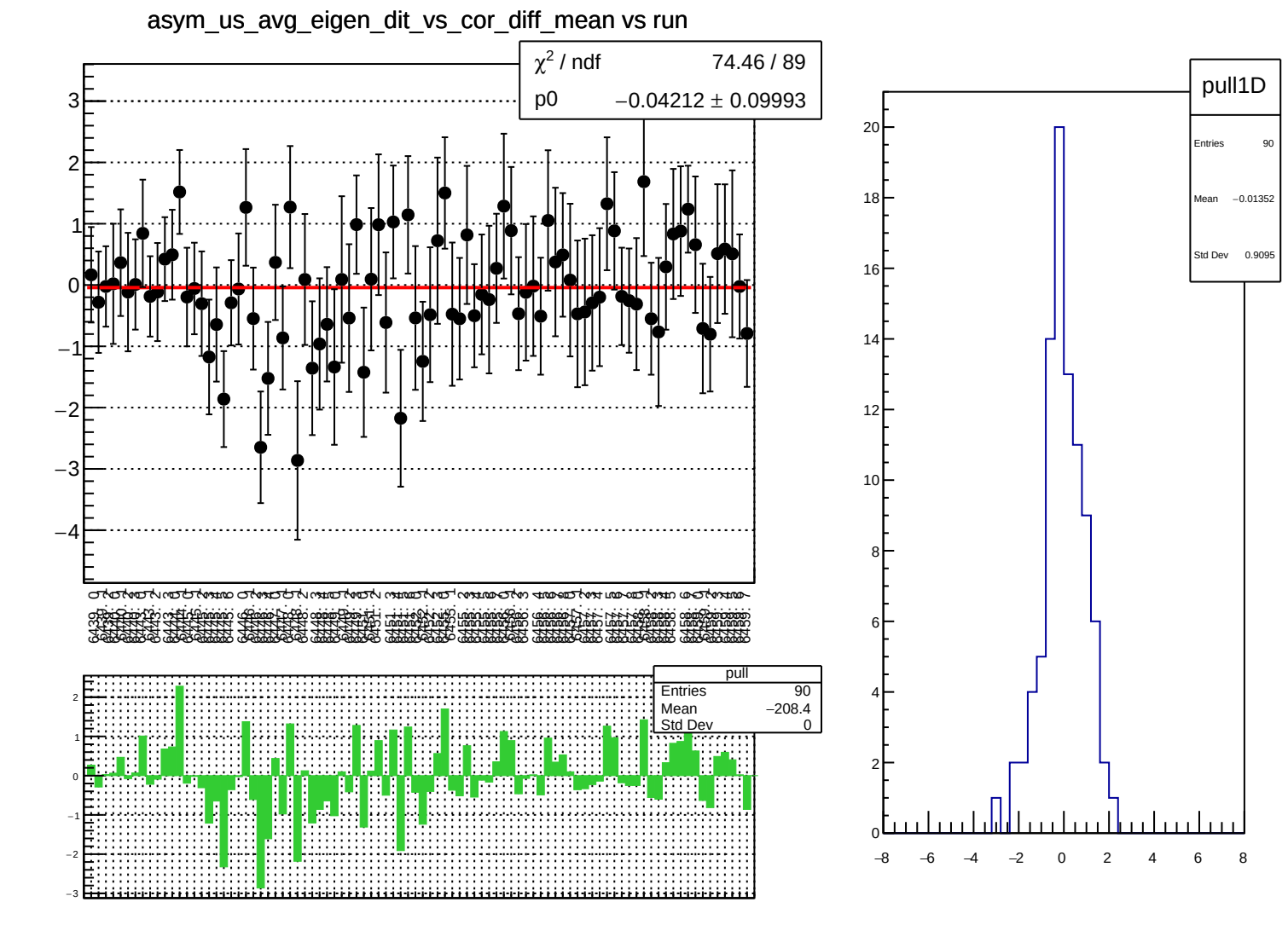

pull1D
Entries 90
Mean −0.02779
Std Dev 0.9426

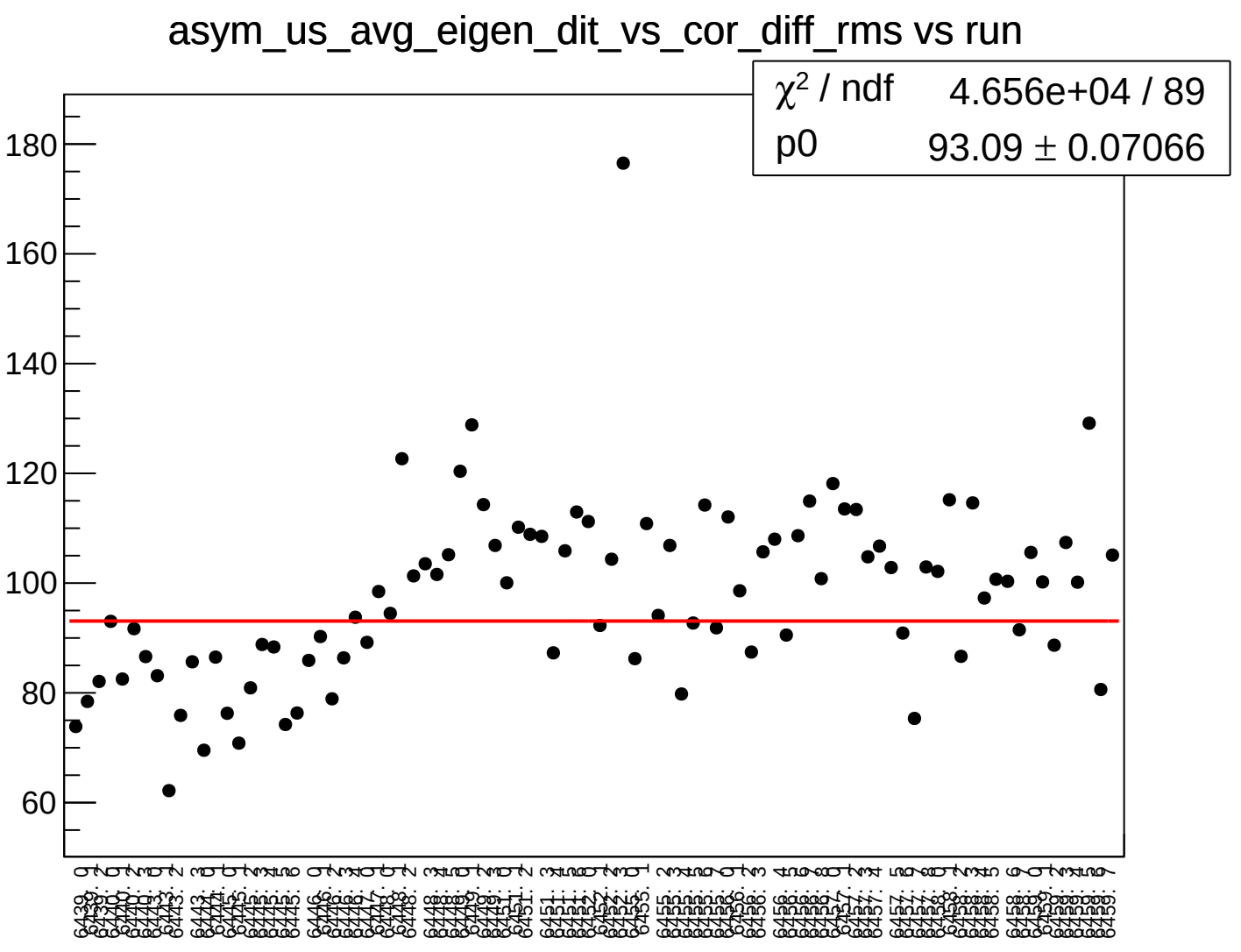

asym_us_avg_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.3e+04 / 89
p0 116.8 ± 0.08807
200
180
160
140
120
100

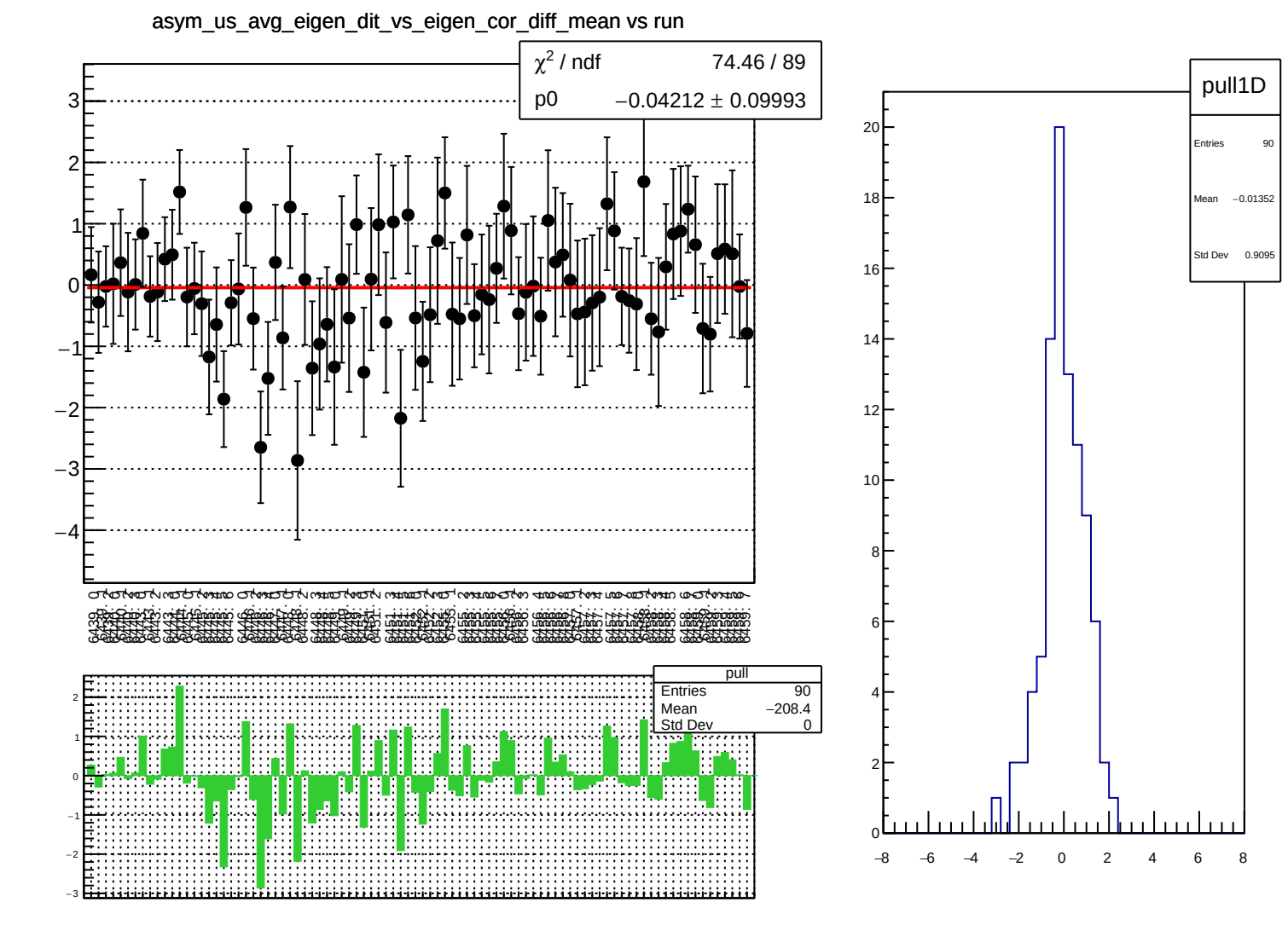

asym_us_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 69.15 / 89
p0 −1.392e−05 ± 4.702e−06
pull
Entries 90
Mean −138.5
Std Dev 0

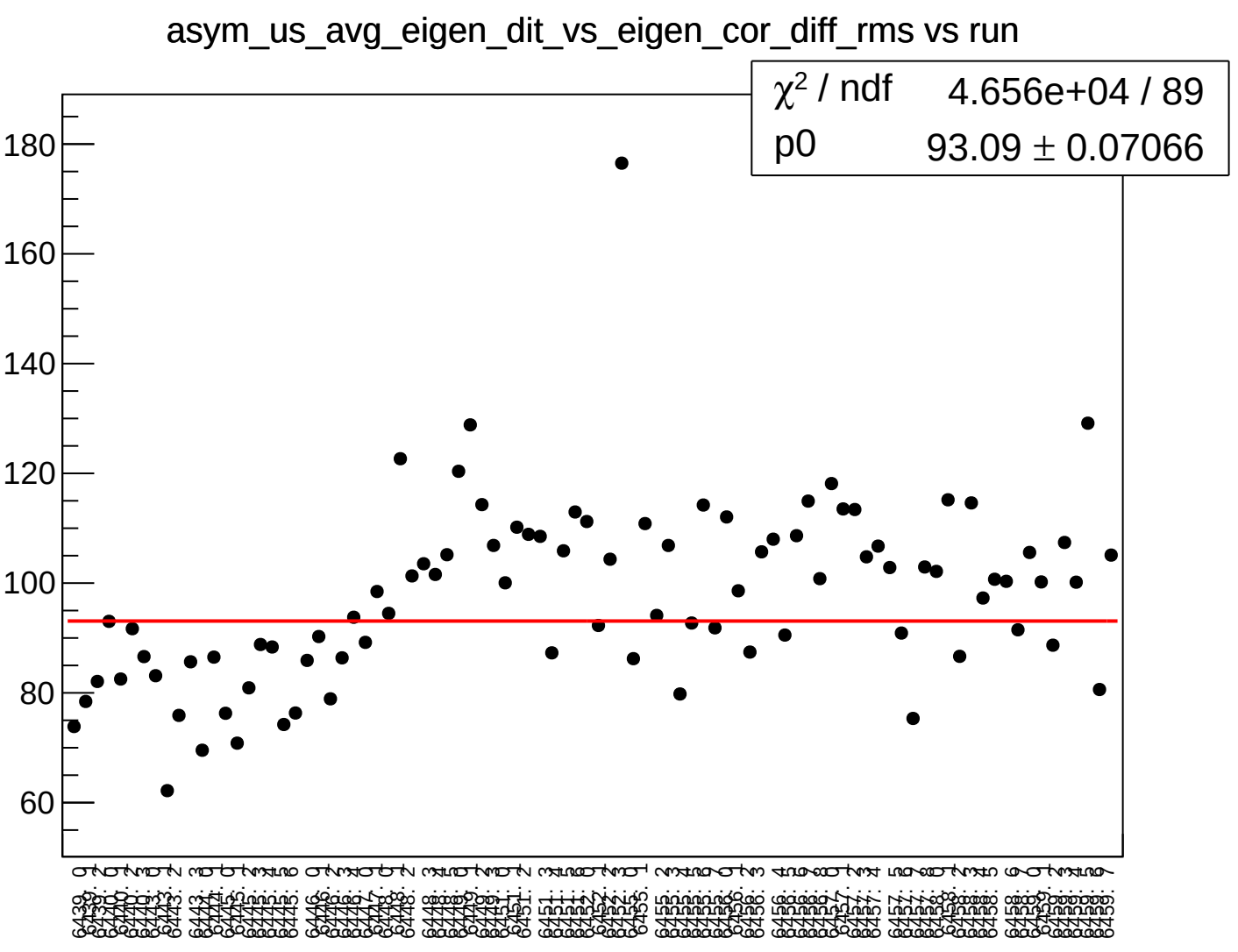

pull1D
Entries 90
Mean −0.008833
Std Dev 0.8765

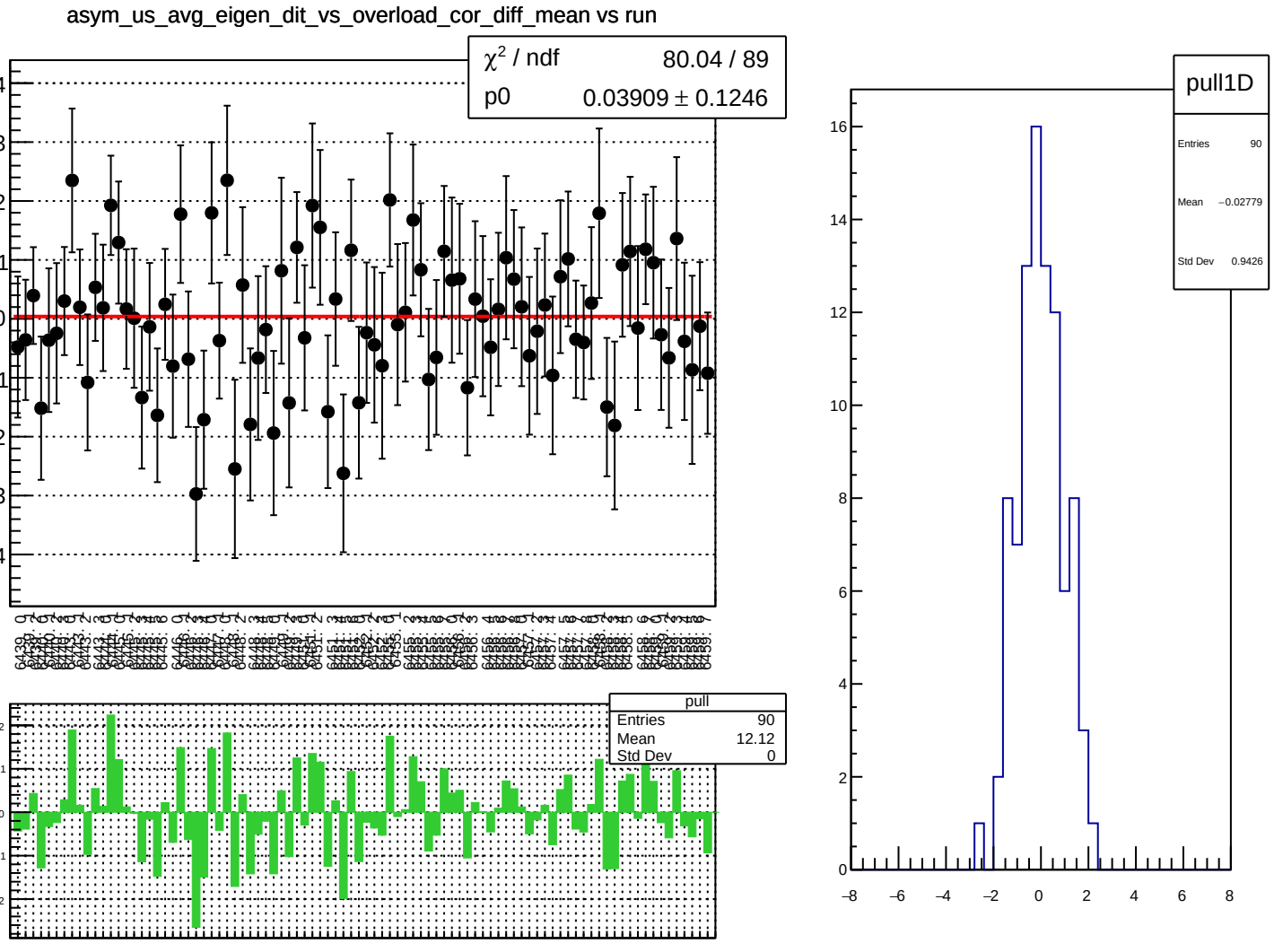

asym_us_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.274e+04 / 89
p0 0.004422 ± 3.325e−06
0.0056
0.0054
0.0052
0.005
0.0048
0.0046
0.0044
0.0042
0.004
0.0038

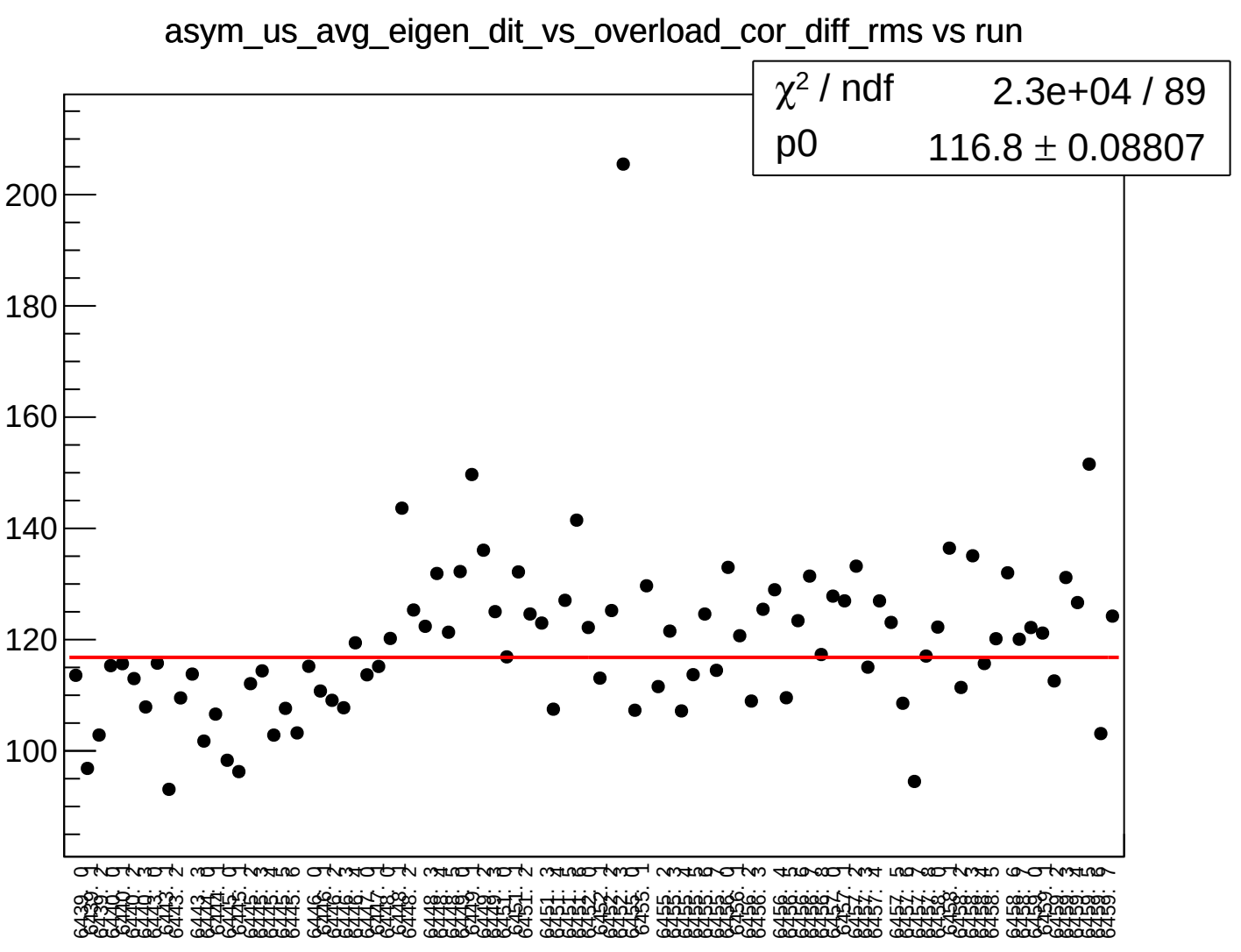

asym_us_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 74.46 / 89
p0 −0.04212 ± 0.09993
pull
Entries 90
Mean −208.4
Std Dev 0
pull1D
Entries 90
Mean −0.01352
Std Dev 0.9095

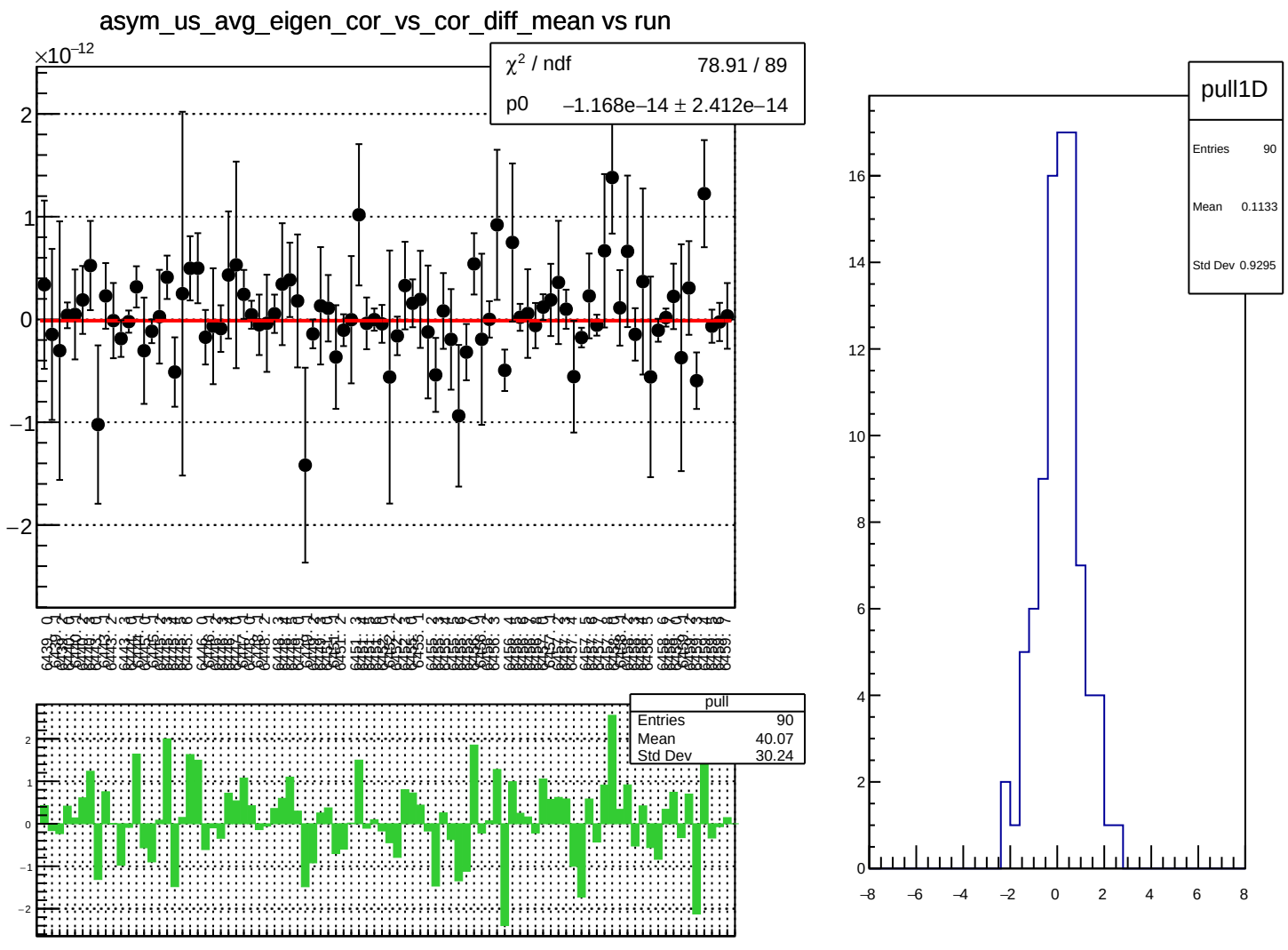

asym_us_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.656e+04 / 89
p0 93.09 ± 0.07066
180
160
140
120
100
80
60

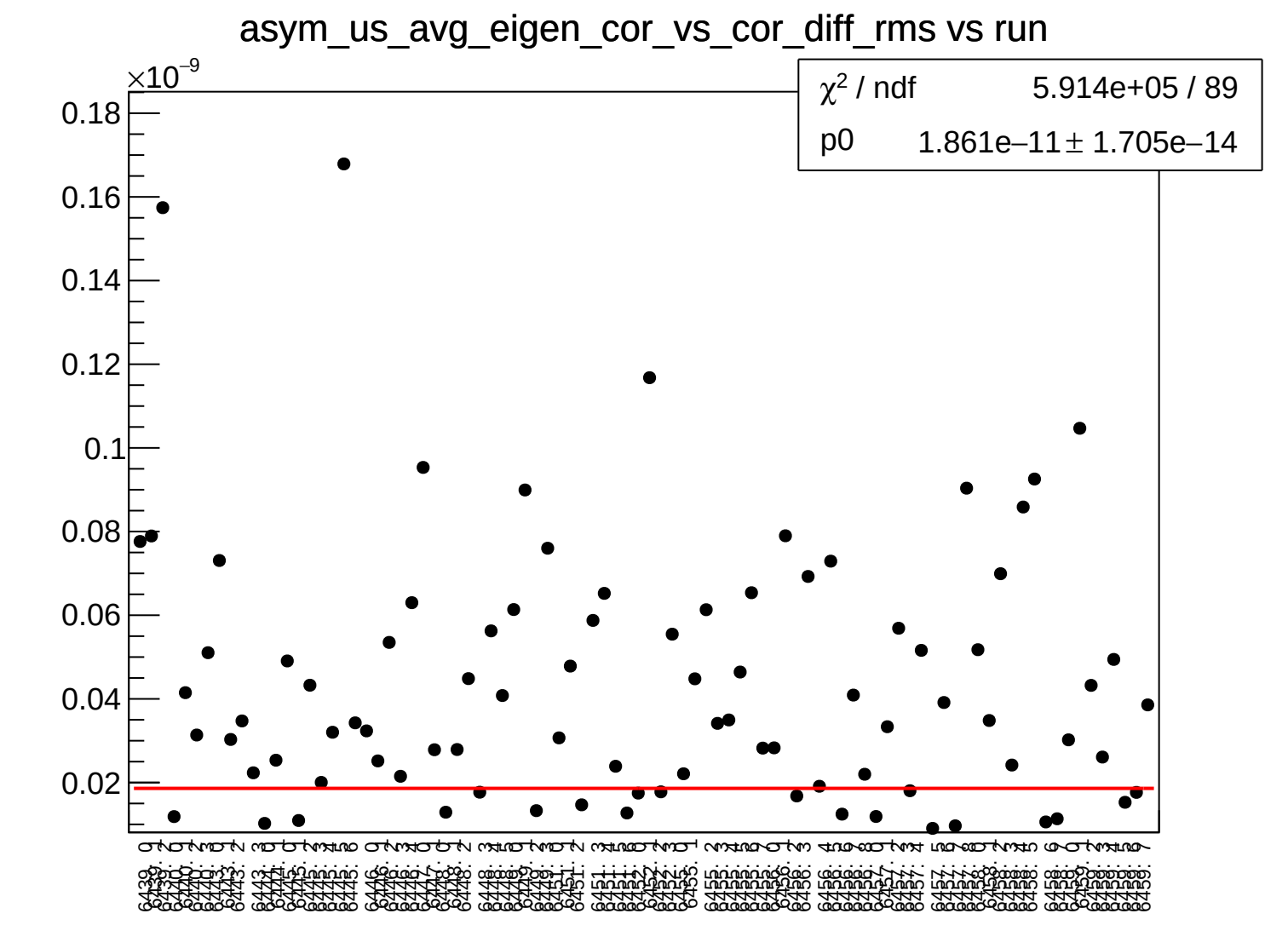

asym_us_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.46 / 89
p0 −0.04212 ± 0.09993
pull
Entries 90
Mean −208.4
Std Dev 0
pull1D
Entries 90
Mean −0.01352
Std Dev 0.9095

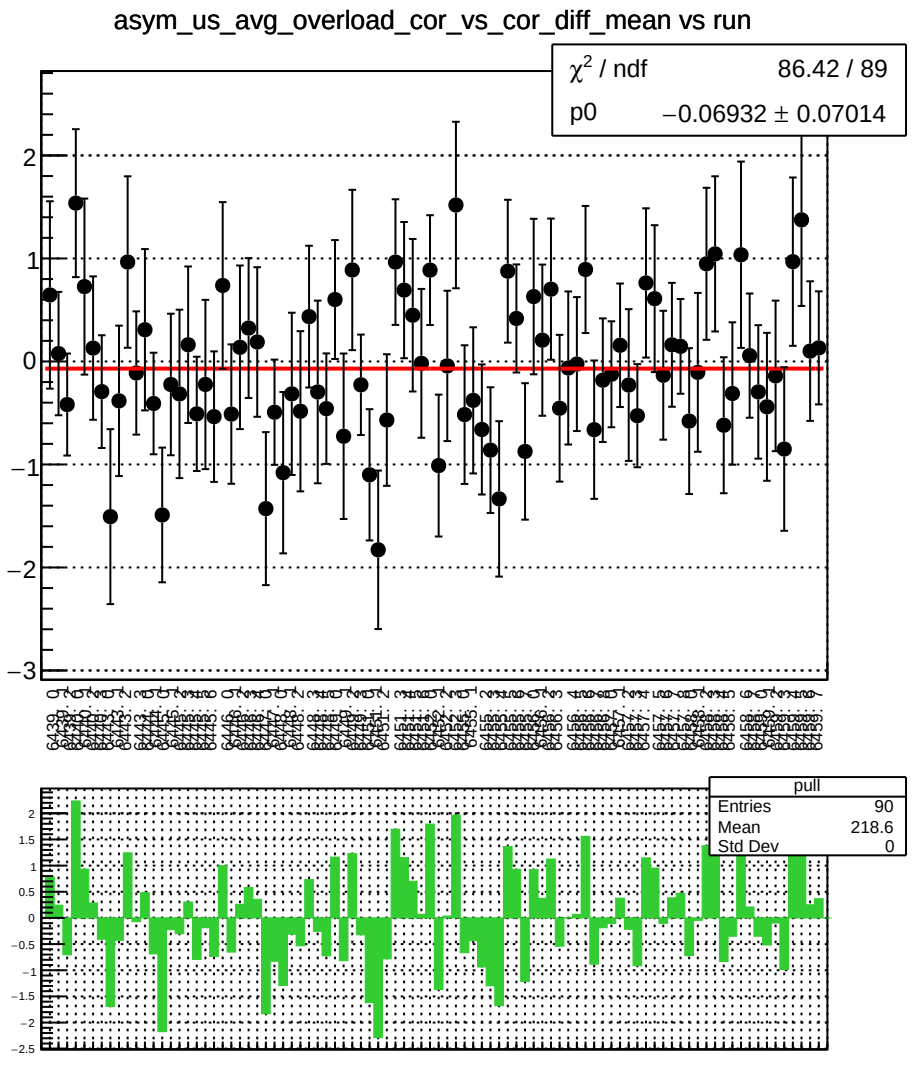

asym_us_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.656e+04 / 89
p0 93.09 ± 0.07066
180
160
140
120
100
80
60

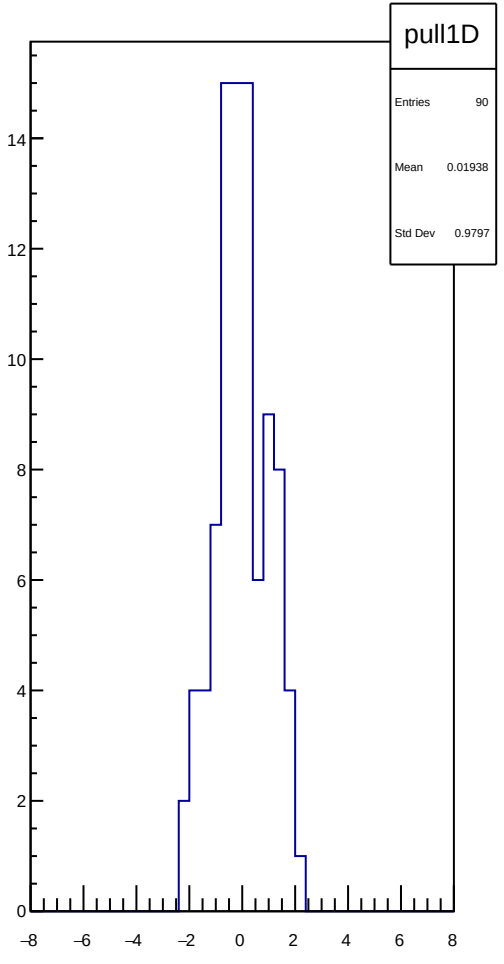

asym_us_avg_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 80.04 / 89
p0 0.03909 ± 0.1246
pull
Entries 90
Mean 12.12
Std Dev 0
pull1D
Entries 90
Mean −0.02779
Std Dev 0.9426

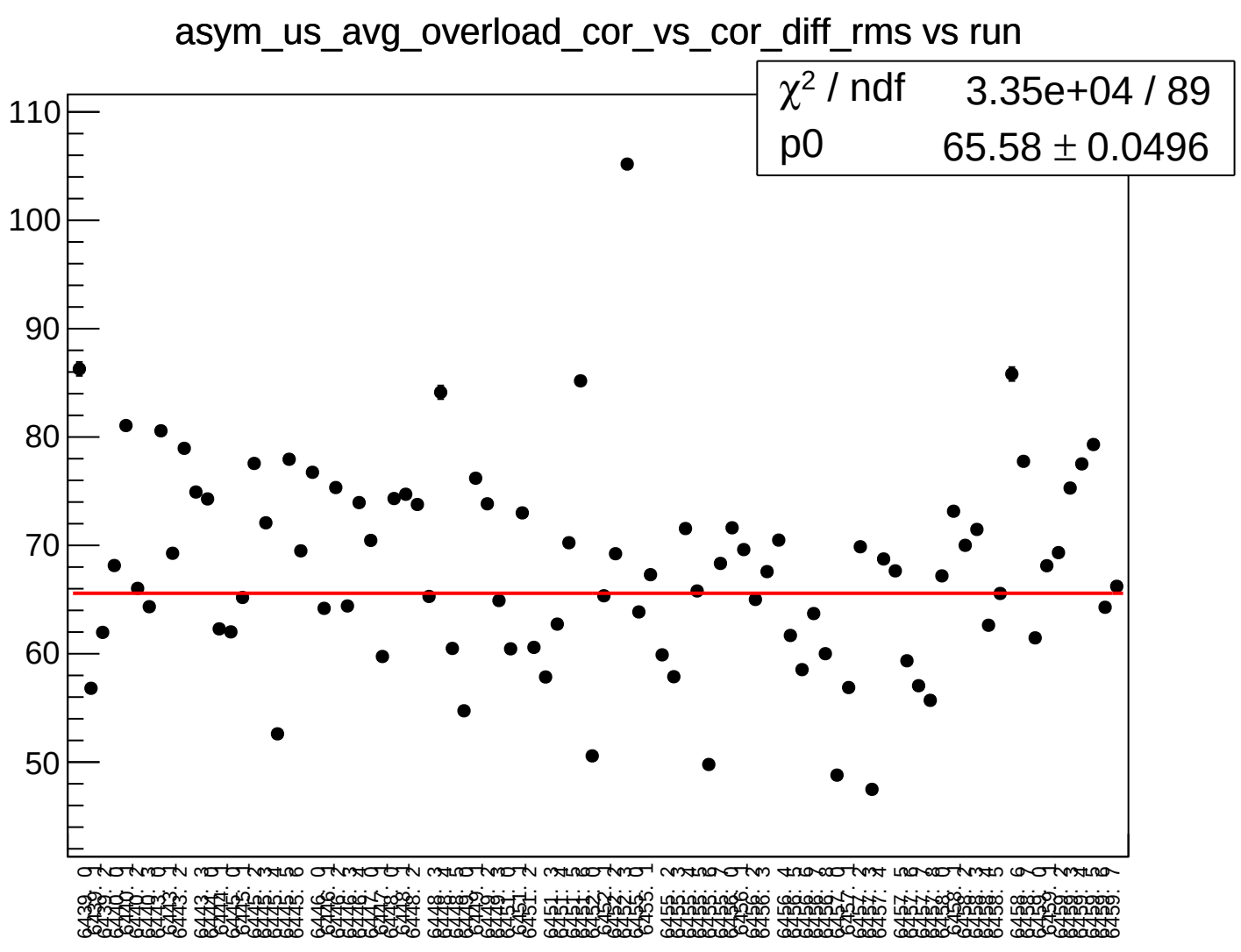

asym_us_avg_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.3e+04 / 89
p0 116.8 ± 0.08807
200
180
160
140
120
100

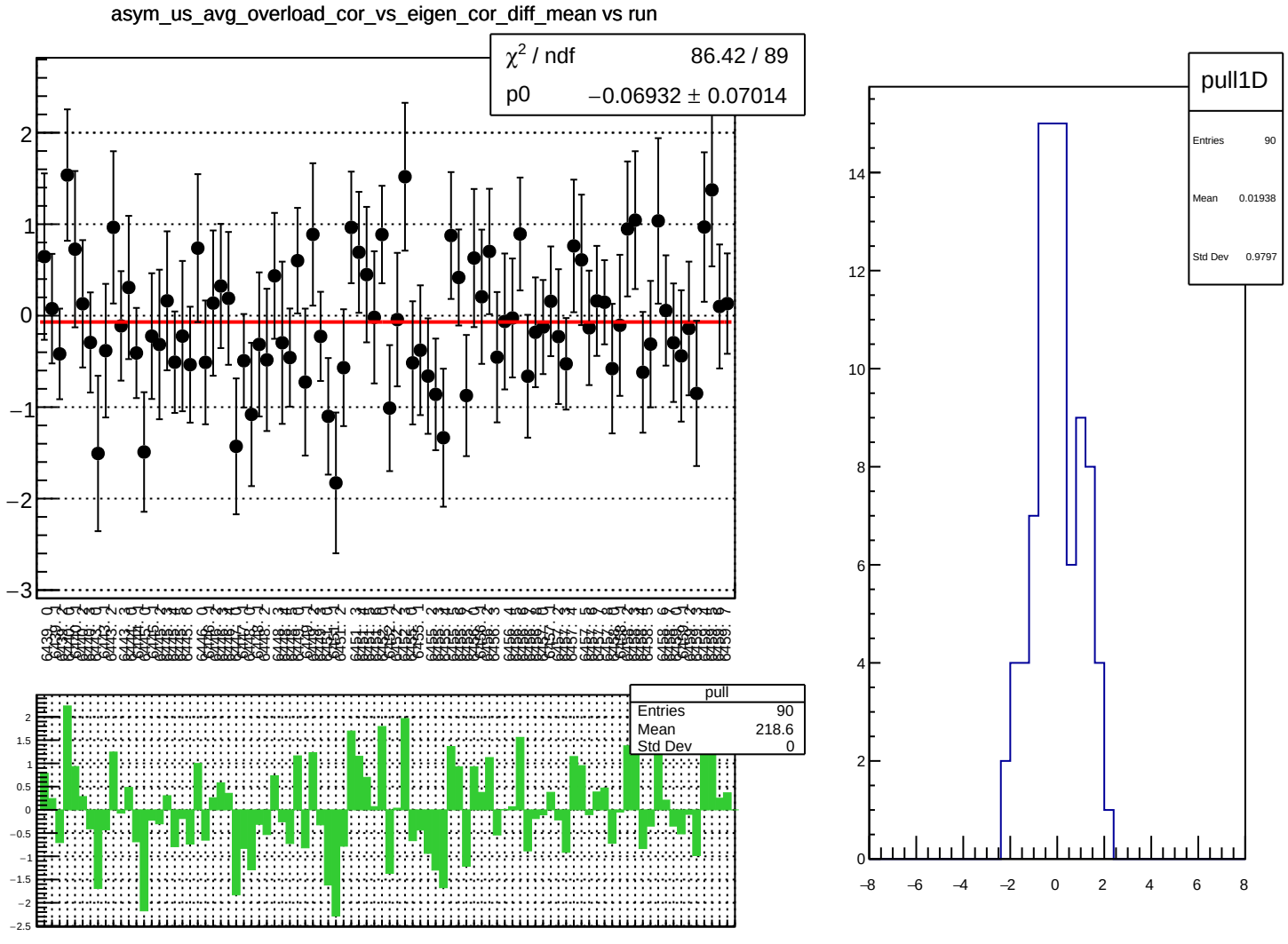

asym_us_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.91 / 89
p0 −1.168e−14 ± 2.412e−14
pull
Entries 90
Mean 40.07
Std Dev 30.24
pull1D
Entries 90
Mean 0.1133
Std Dev 0.9295

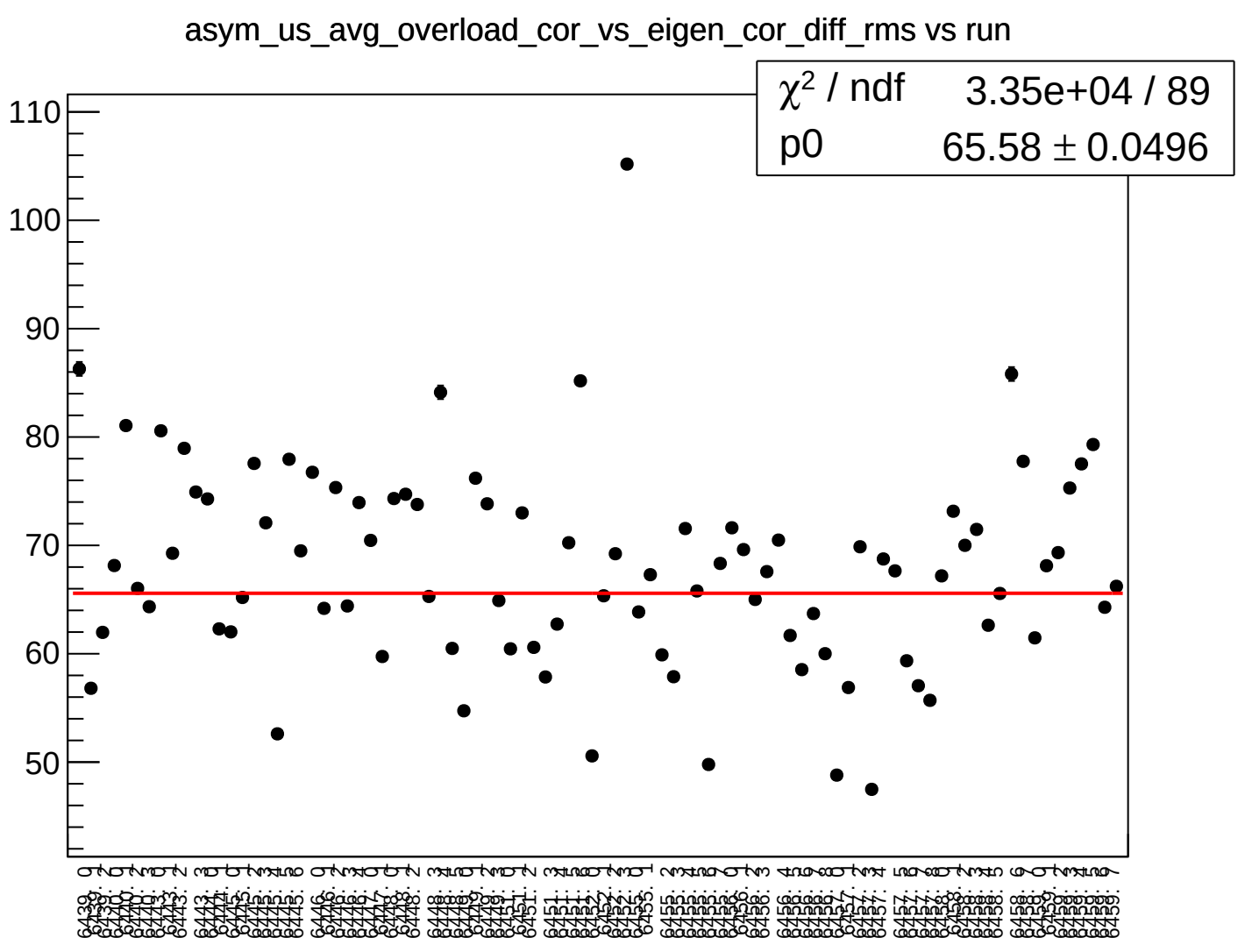

asym_us_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.914e+05 / 89
p0 1.861e−11 ± 1.705e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

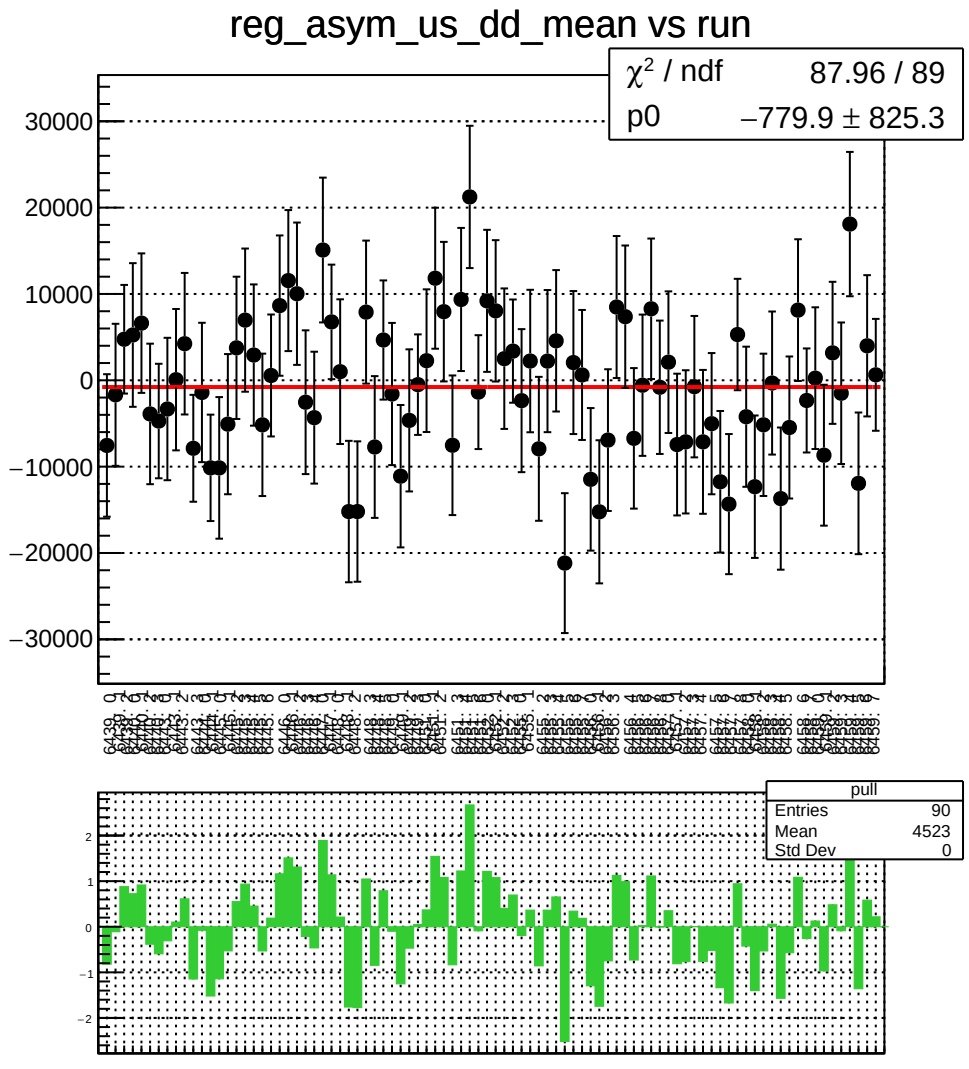

asym_us_avg_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 86.42 / 89
p0 −0.06932 ± 0.07014
pull
Entries 90
Mean 218.6
Std Dev 0

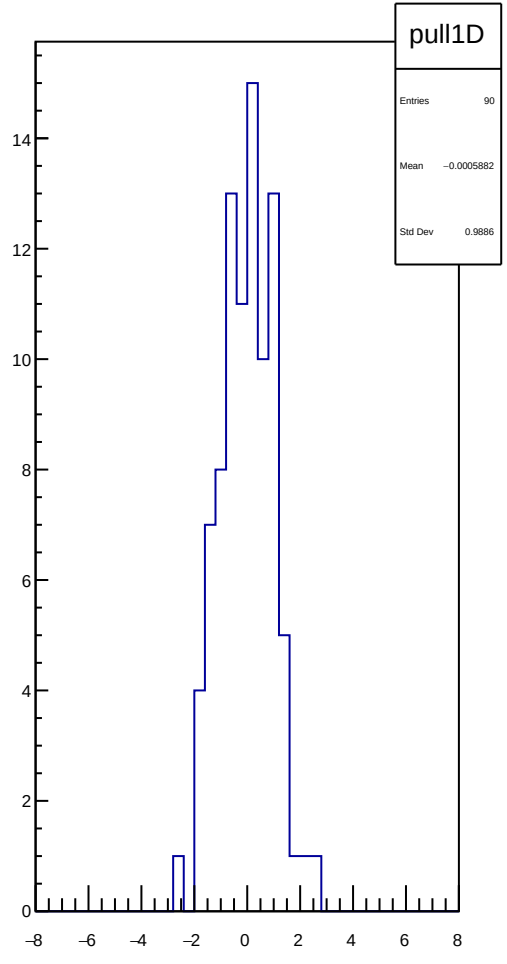

pull1D
Entries 90
Mean 0.01938
Std Dev 0.9797

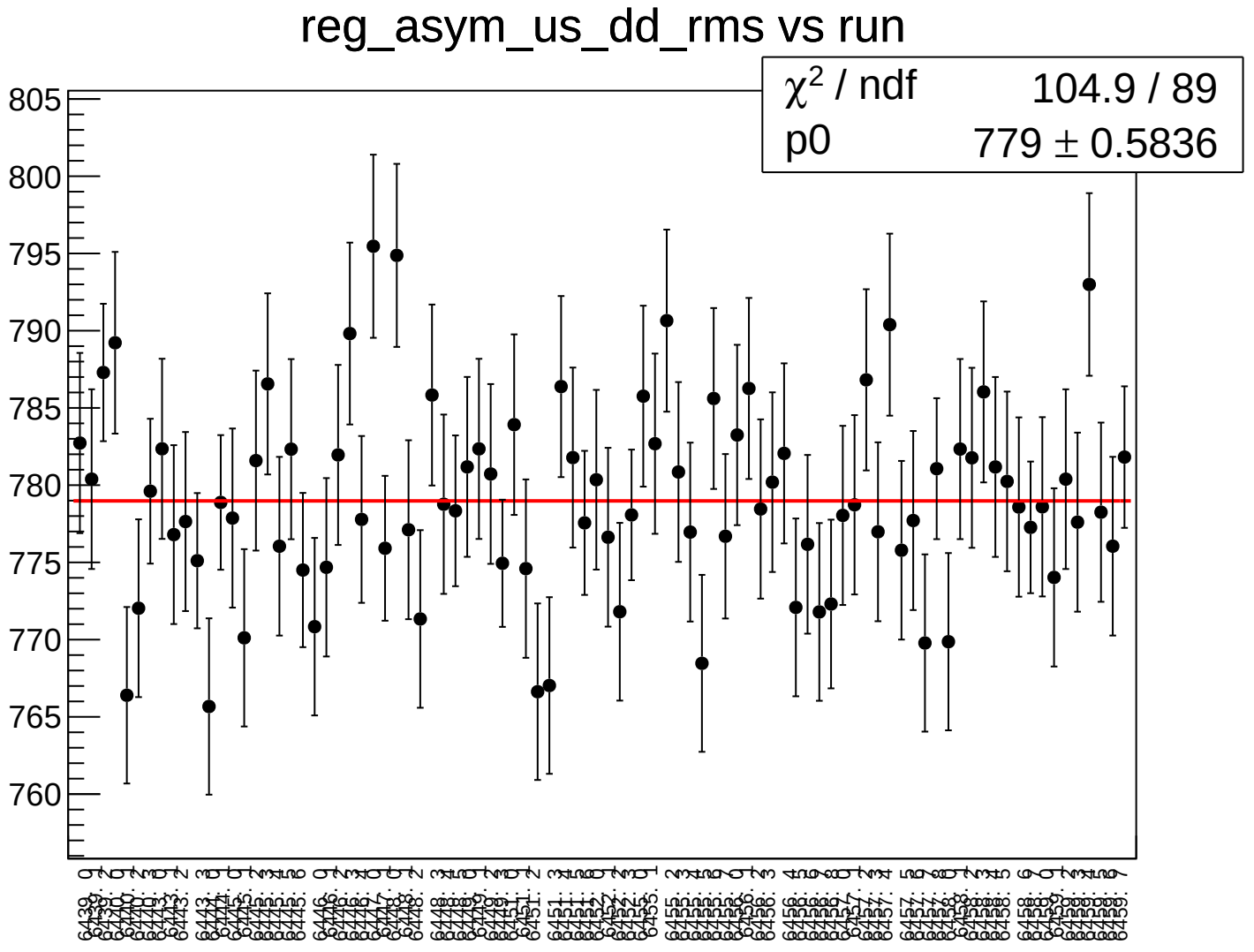

asym_us_avg_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 3.35e+04 / 89
p0 65.58 ± 0.0496
110
100
90
80
70
60
50

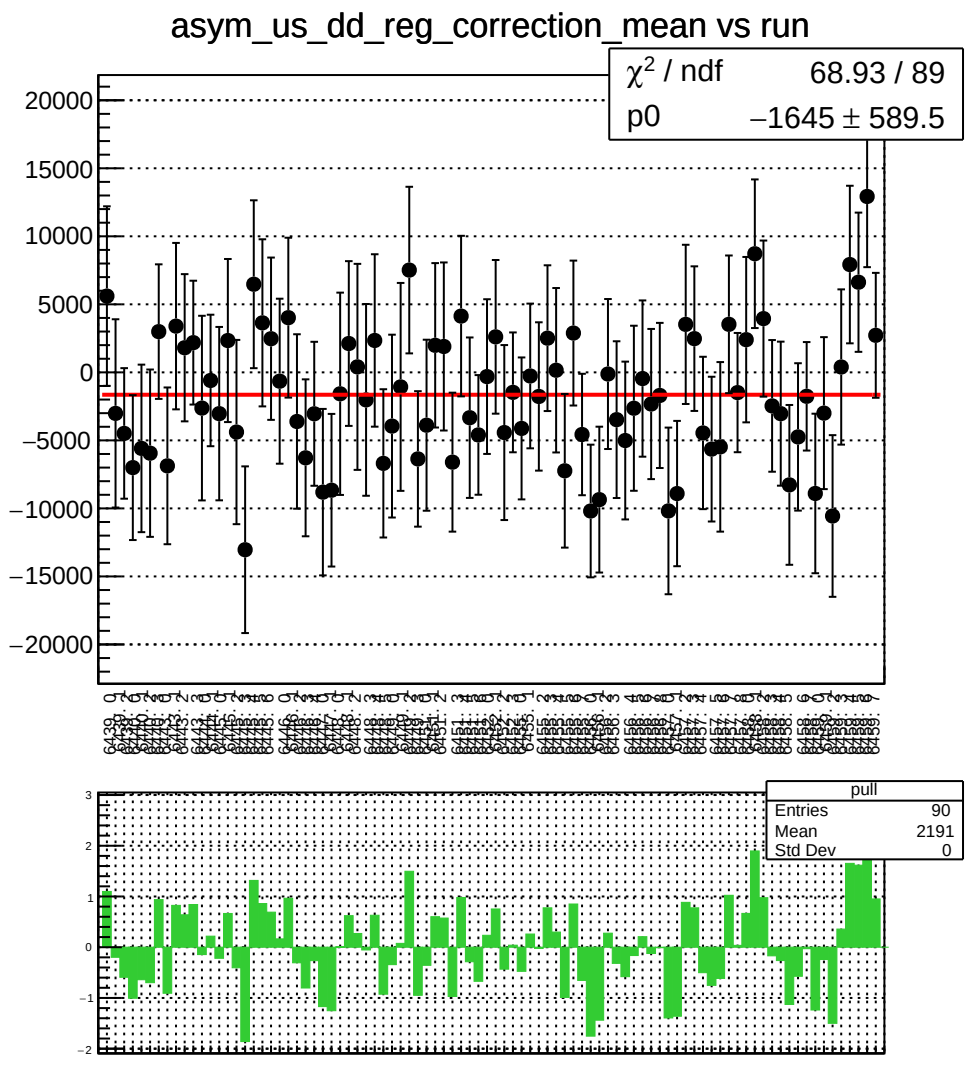

asym_us_avg_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.42 / 89
p0 −0.06932 ± 0.07014
pull
Entries 90
Mean 218.6
Std Dev 0
pull1D
Entries 90
Mean 0.01938
Std Dev 0.9797

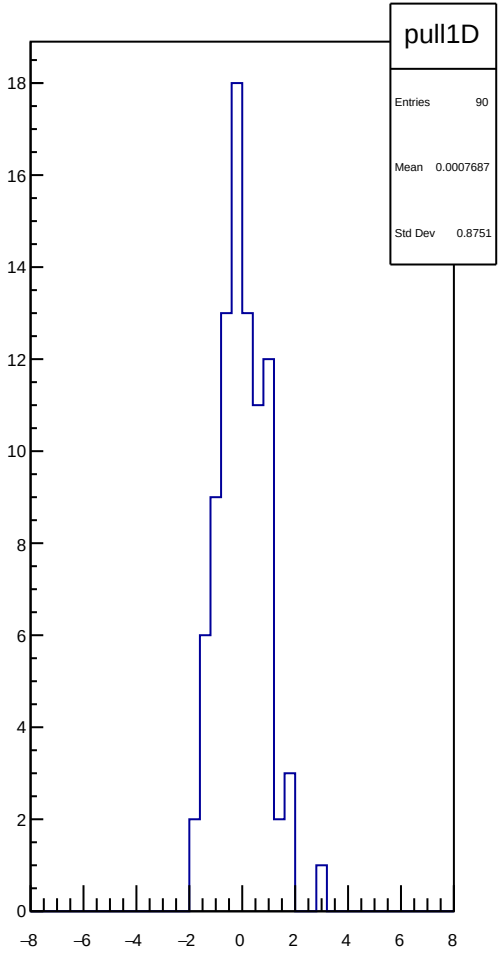

asym_us_avg_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.35e+04 / 89
p0 65.58 ± 0.0496
110
100
90
80
70
60
50

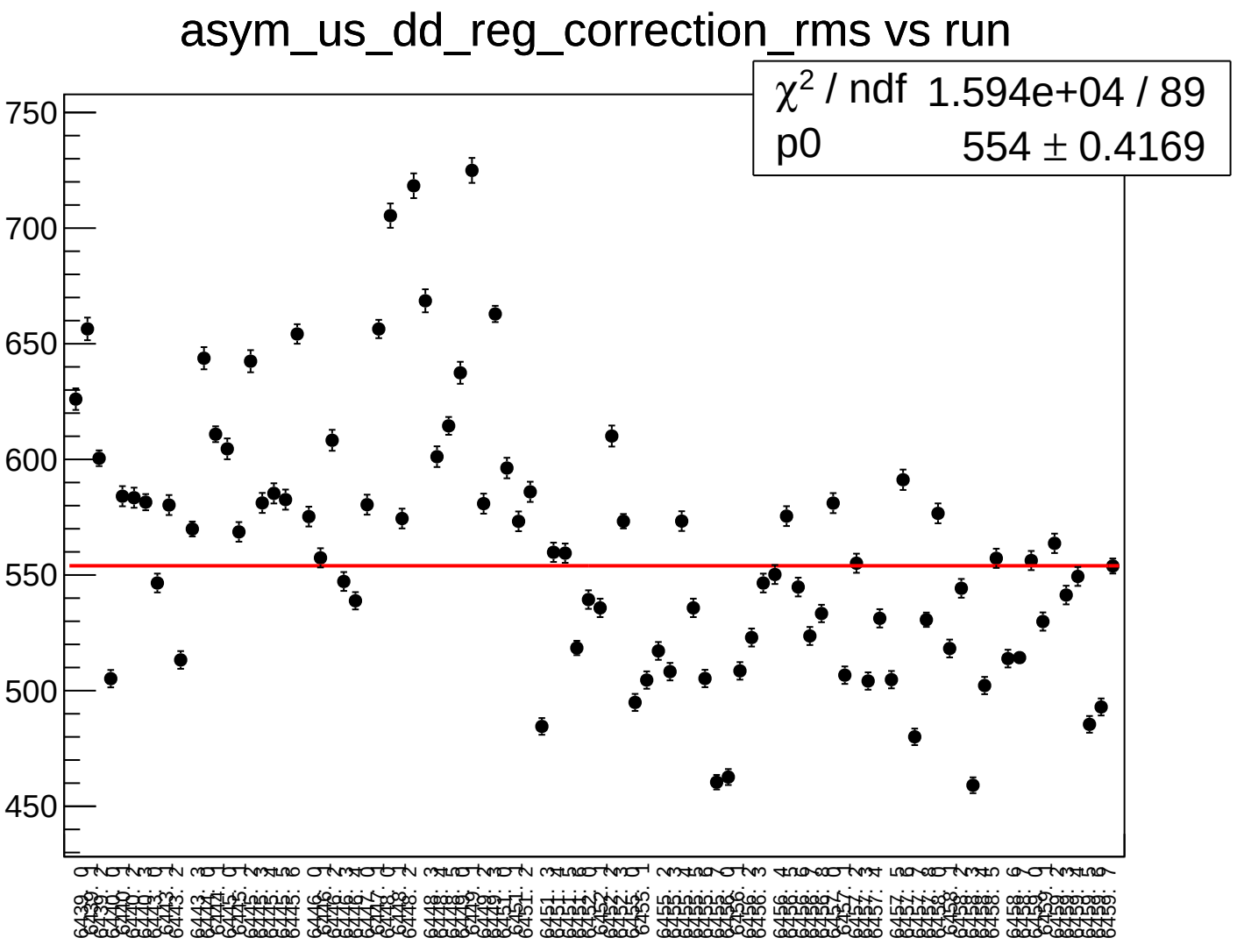

reg_asym_us_dd_mean vs run
χ^2 / ndf 87.96 / 89
p0 −779.9 ± 825.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean 4523
Std Dev 0
2
1
0
−1
−2

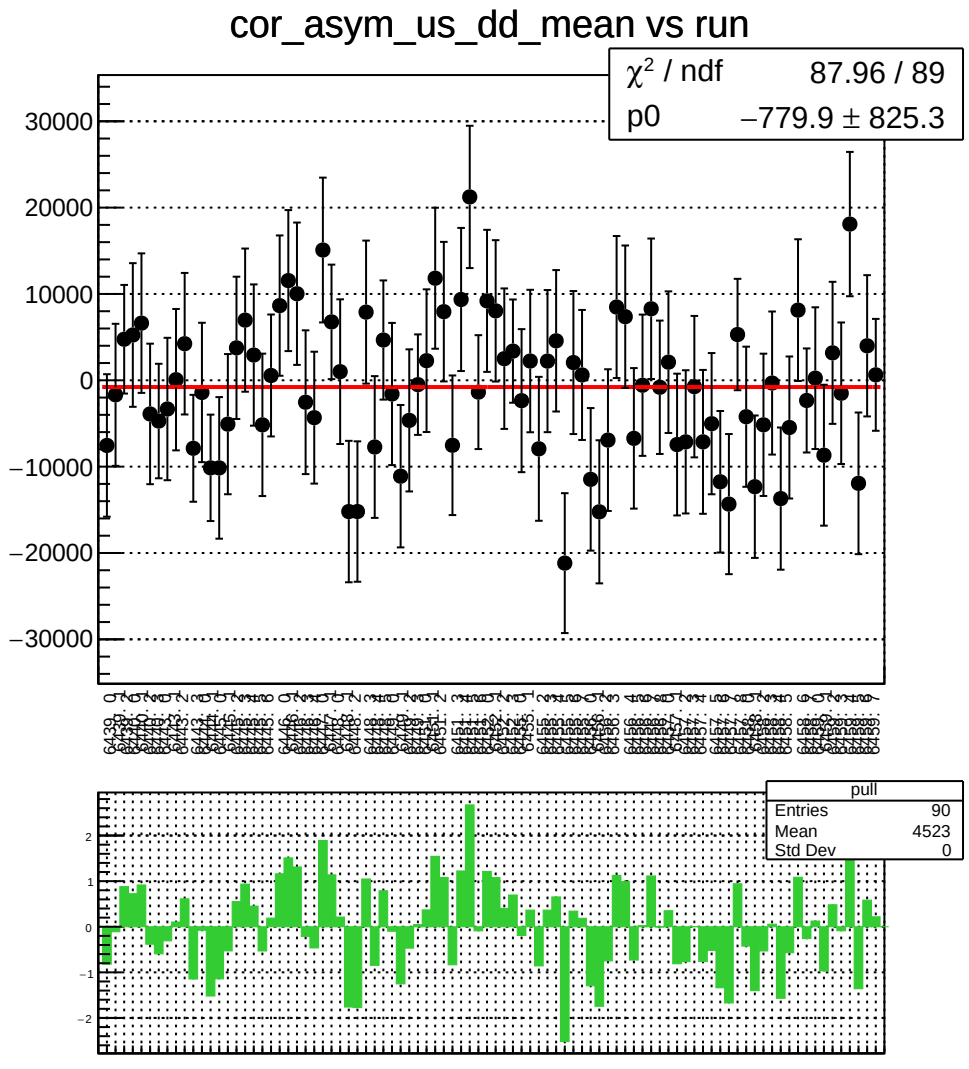

pull1D
Entries 90
Mean −0.0005882
Std Dev 0.9886
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

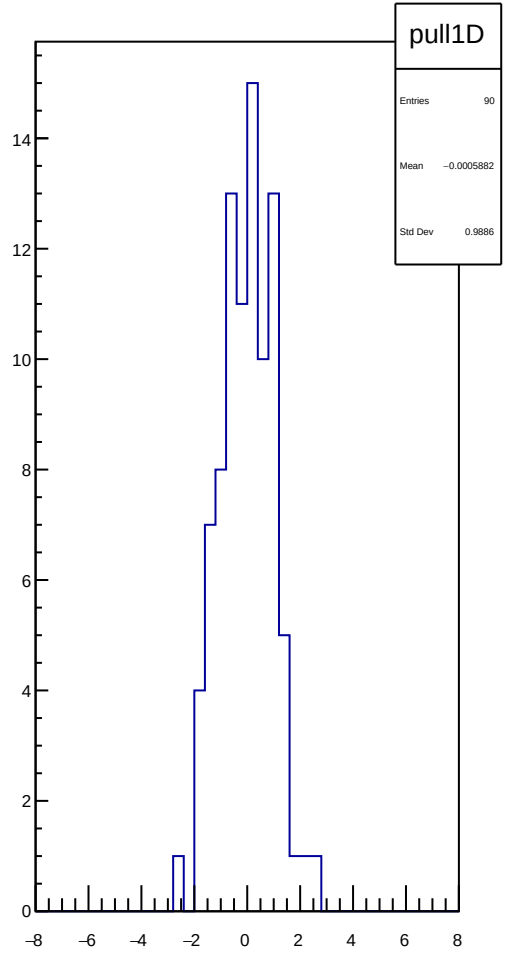

reg_asym_us_dd_rms vs run
χ² / ndf 104.9 / 89
p0 779 ± 0.5836
805
800
795
790
785
780
775
770
765
760

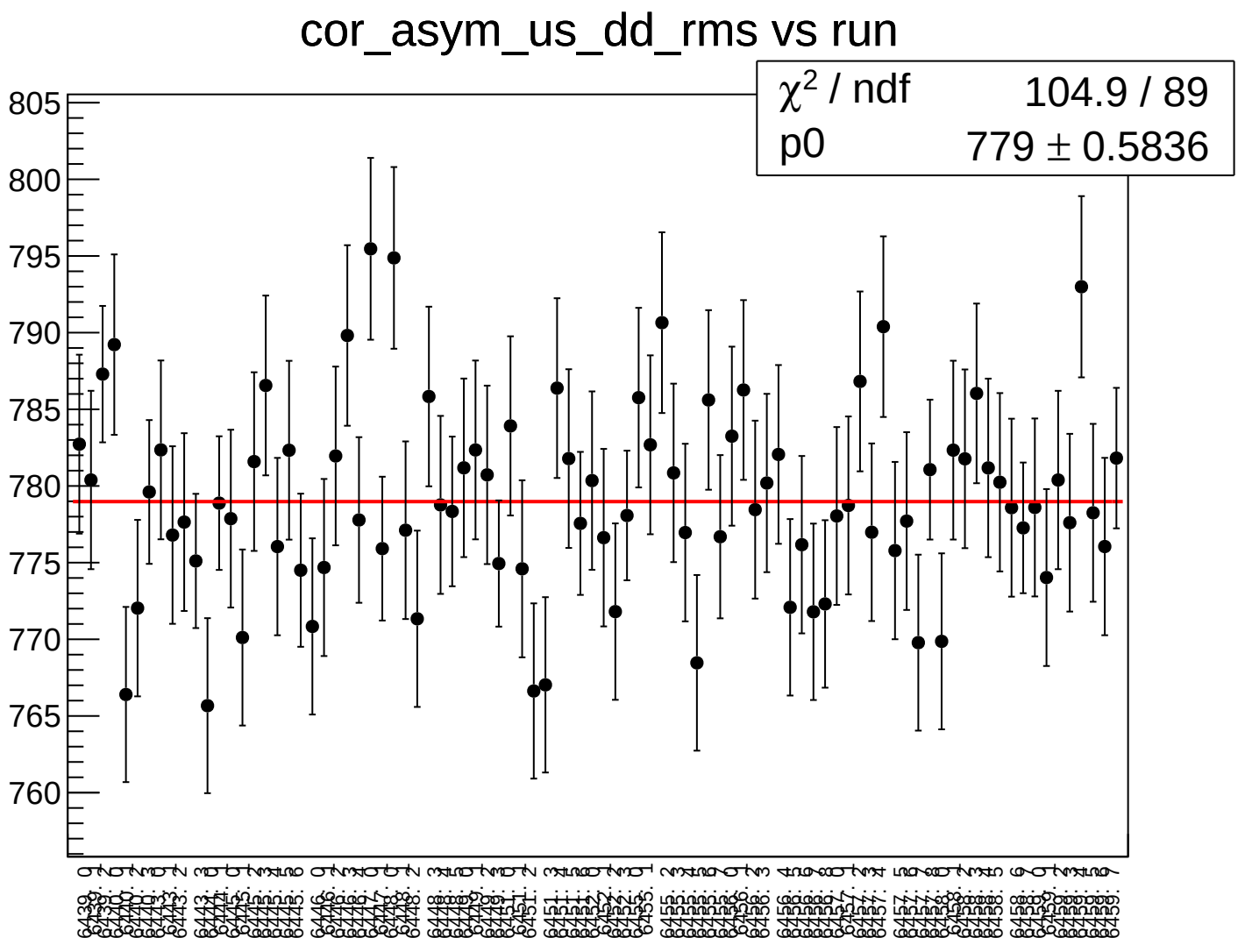

asym_us_dd_reg_correction_mean vs run
χ² / ndf 68.93 / 89
p0 −1645 ± 589.5
pull
Entries 90
Mean 2191
Std Dev 0

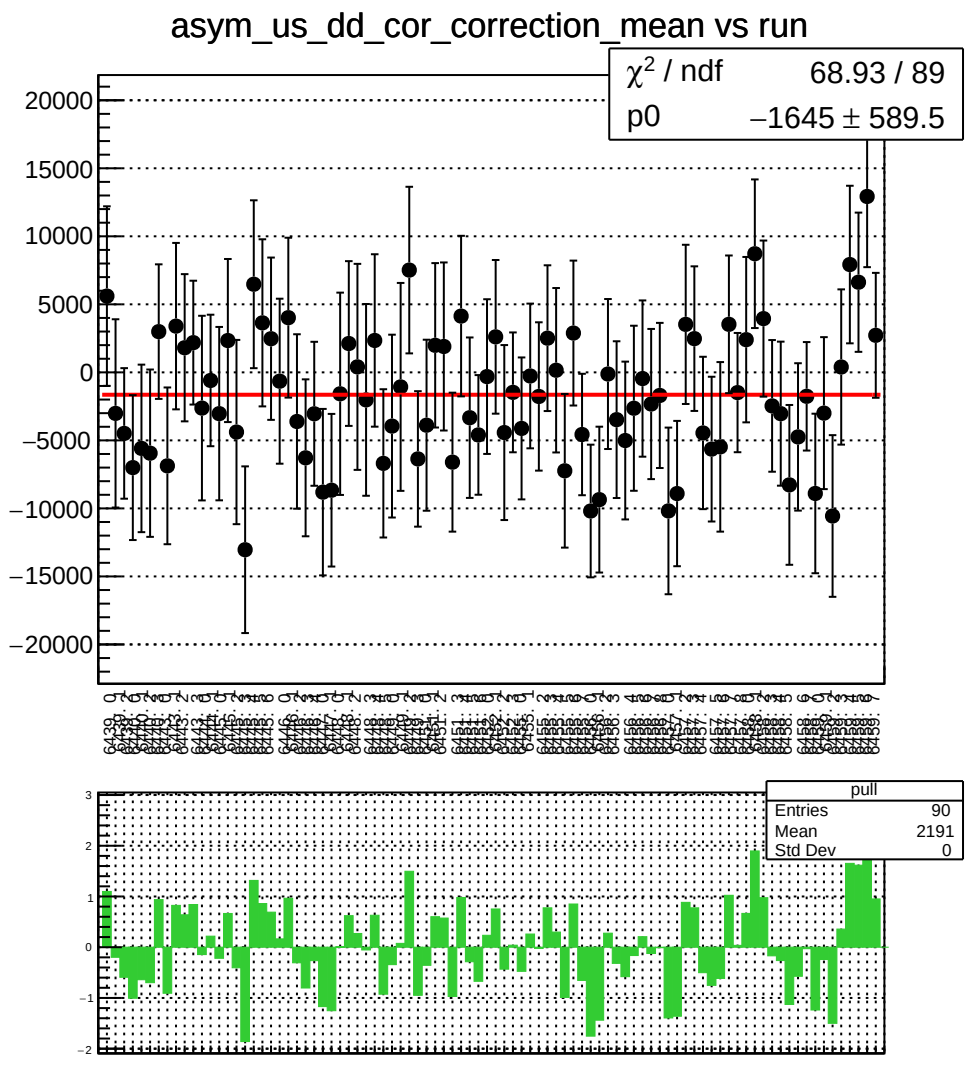

pull1D
Entries 90
Mean 0.0007687
Std Dev 0.8751

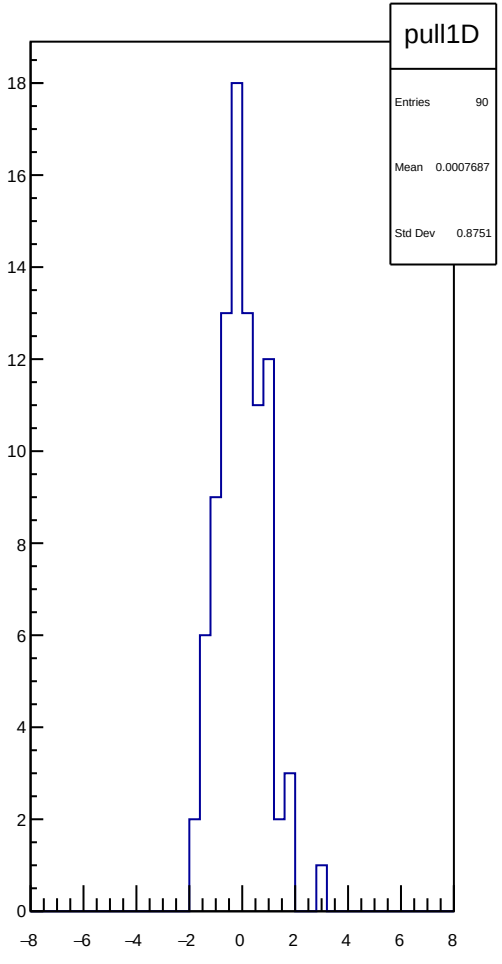

asym_us_dd_reg_correction_rms vs run
χ² / ndf 1.594e+04 / 89
p0 554 ± 0.4169
750
700
650
600
550
500
450

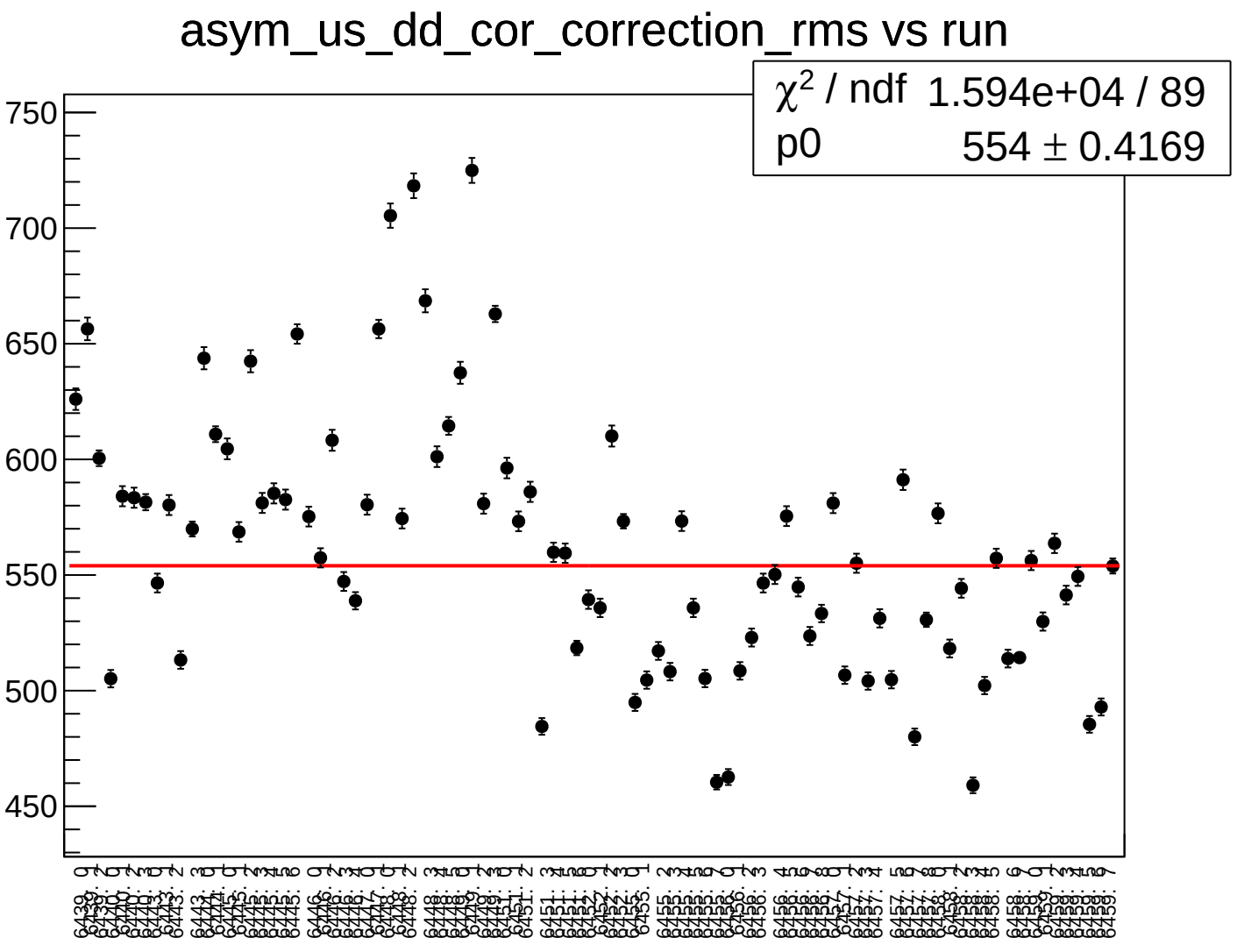

cor_asym_us_dd_mean vs run
χ² / ndf 87.96 / 89
p0 −779.9 ± 825.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean 4523
Std Dev 0
2
1
0
−1
−2

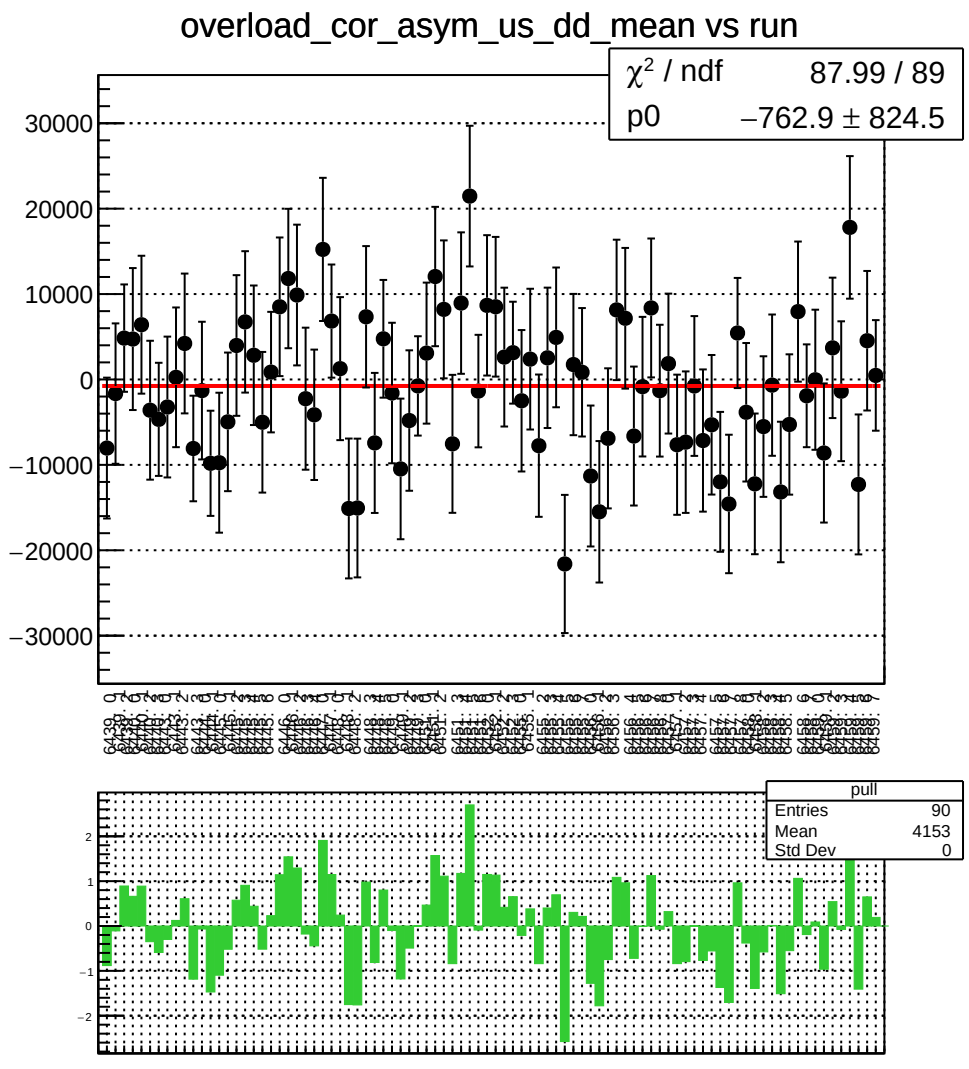

pull1D
Entries 90
Mean −0.0005882
Std Dev 0.9886
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

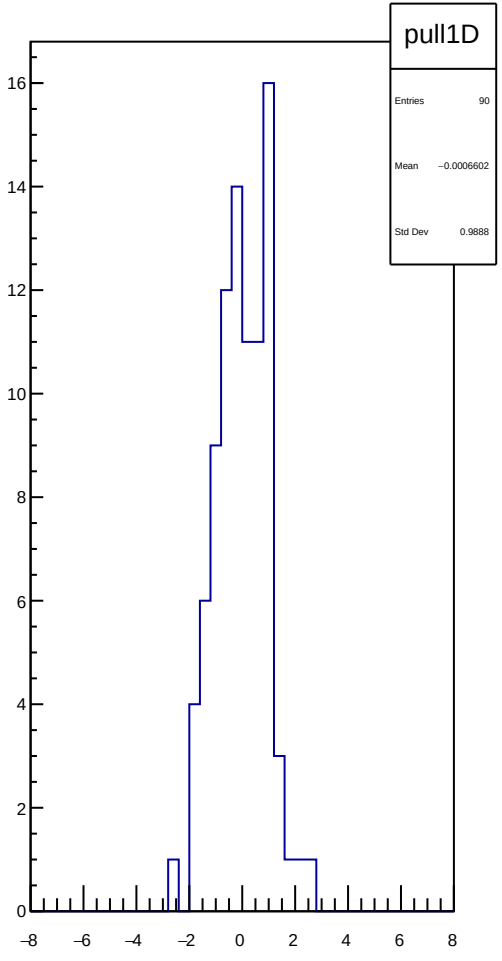

cor_asym_us_dd_rms vs run
χ² / ndf 104.9 / 89
p0 779 ± 0.5836
805
800
795
790
785
780
775
770
765
760

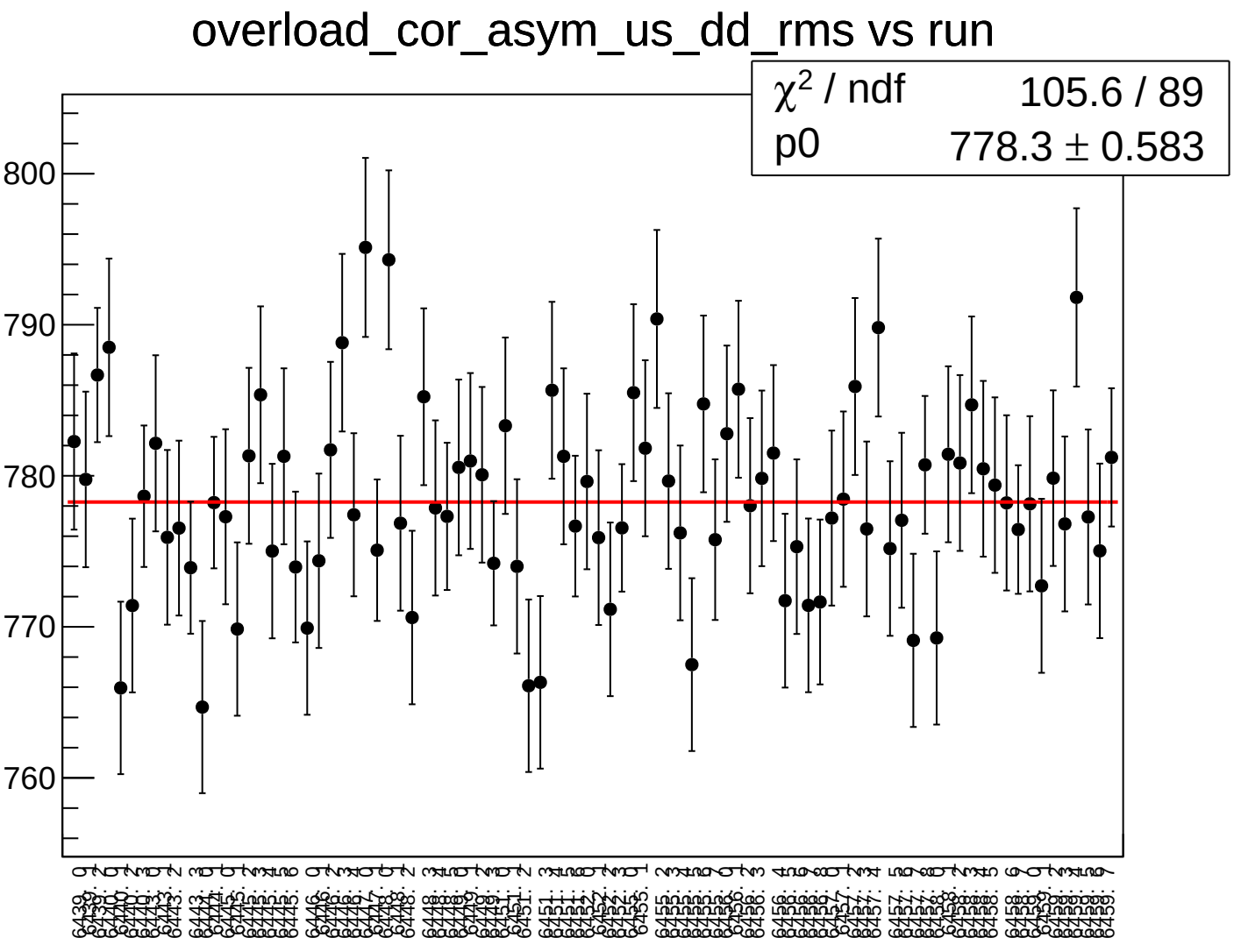

asym_us_dd_cor_correction_mean vs run
χ² / ndf 68.93 / 89
p0 −1645 ± 589.5
pull
Entries 90
Mean 2191
Std Dev 0

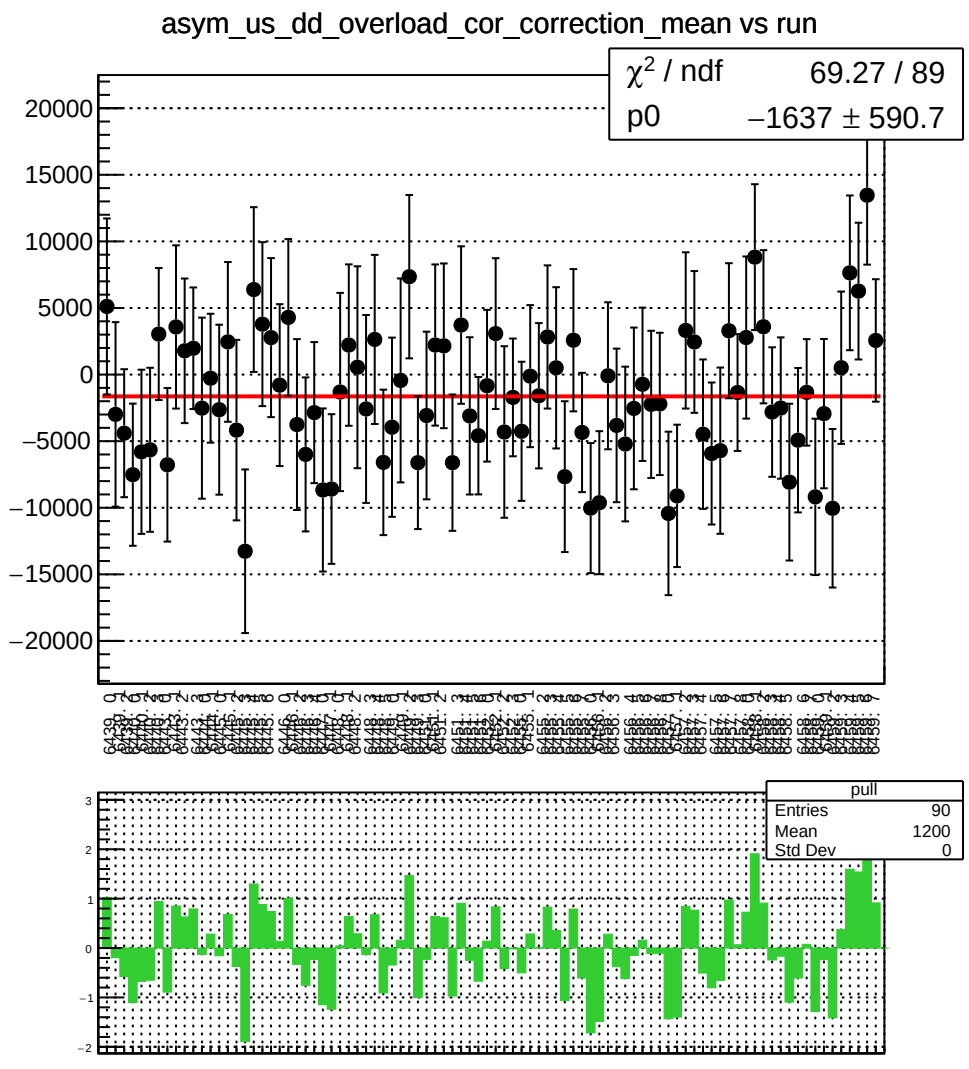

pull1D
Entries 90
Mean 0.0007687
Std Dev 0.8751

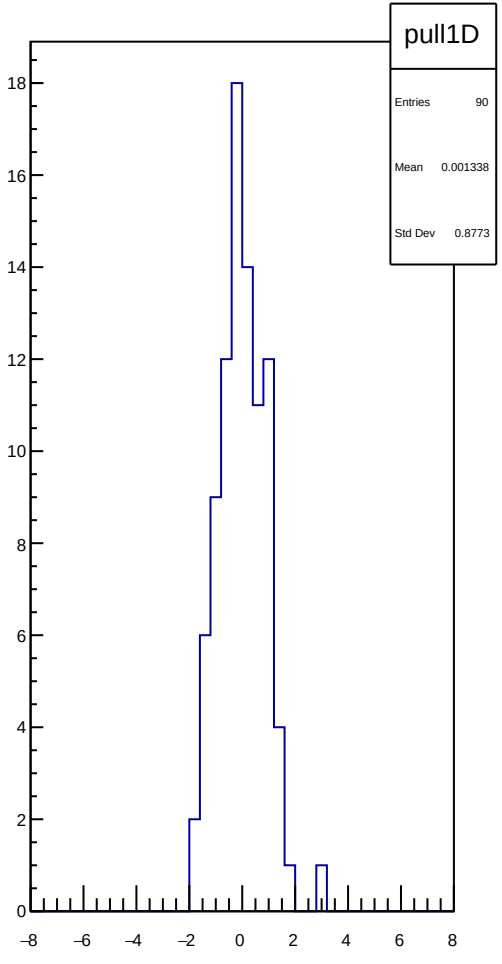

asym_us_dd_cor_correction_rms vs run
χ² / ndf 1.594e+04 / 89
p0 554 ± 0.4169
750
700
650
600
550
500
450

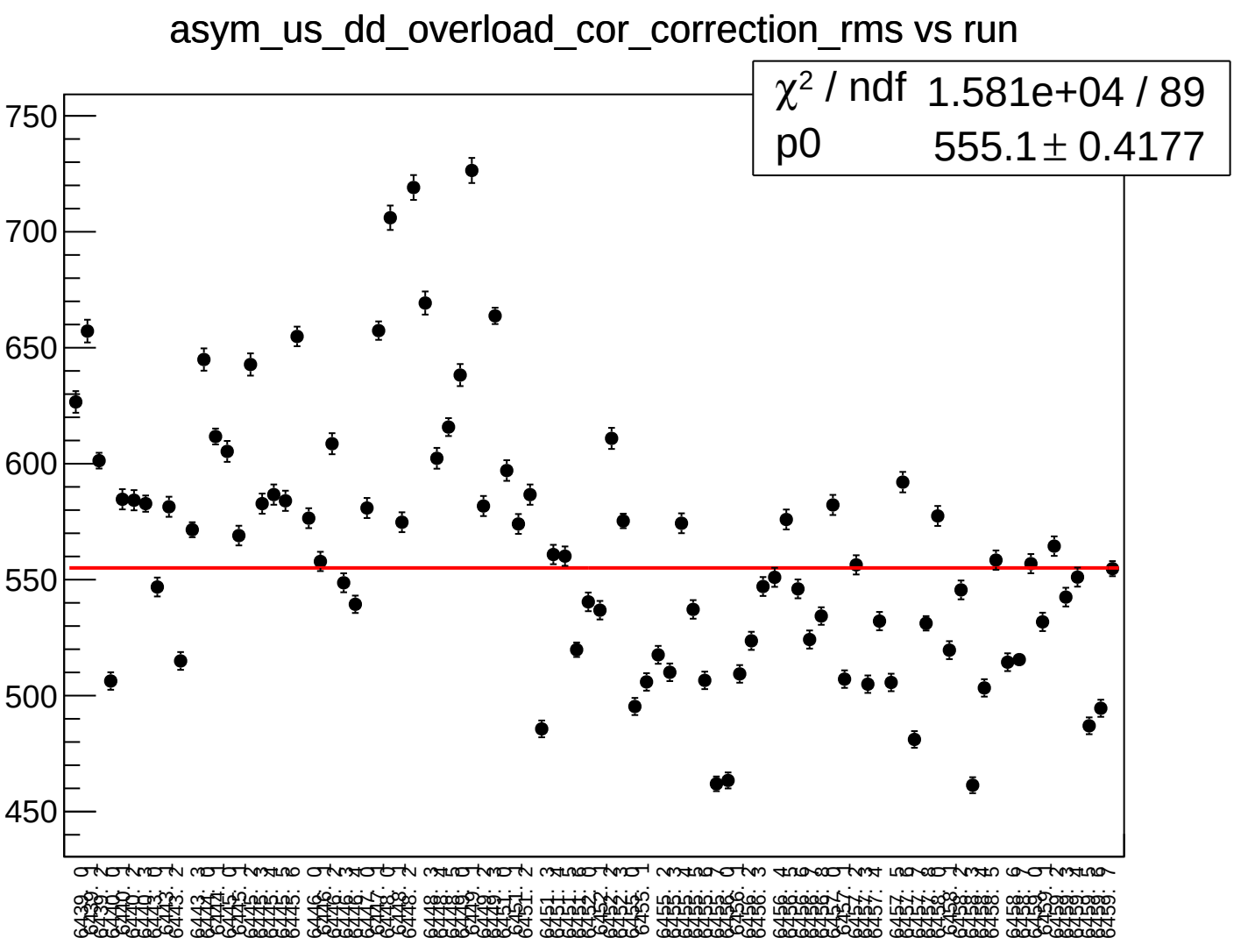

overload_cor_asym_us_dd_mean vs run
χ² / ndf 87.99 / 89
p0 −762.9 ± 824.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean 4153
Std Dev 0
2
1
0
−1
−2

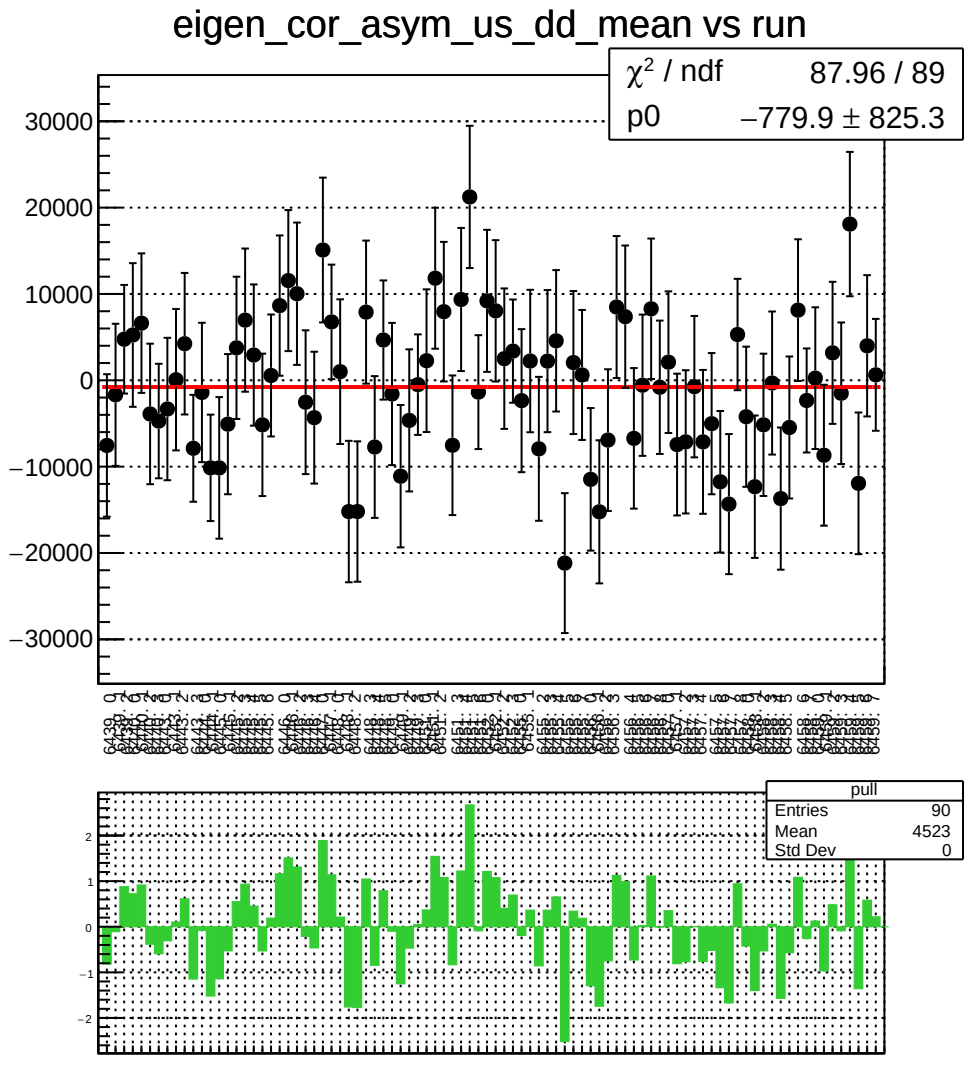

pull1D
Entries 90
Mean −0.0006602
Std Dev 0.9888
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

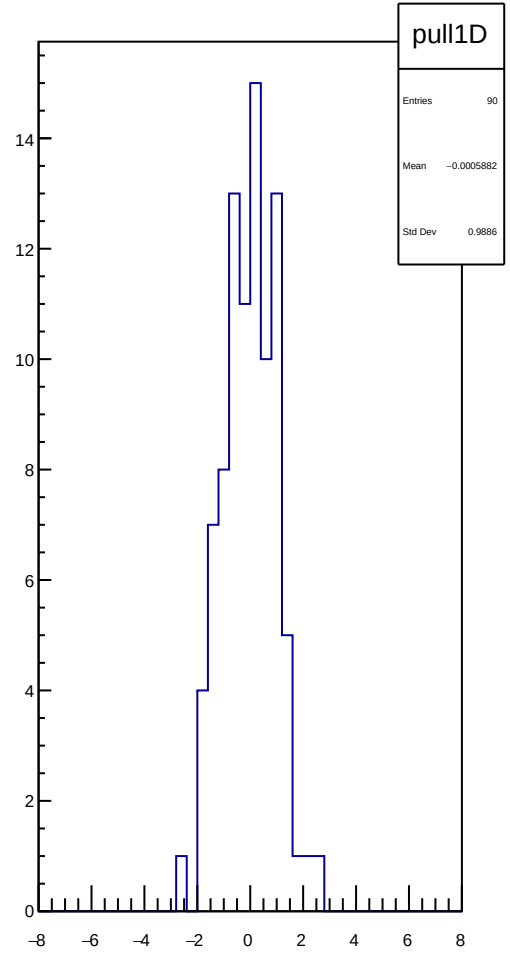

overload_cor_asym_us_dd_rms vs run
χ² / ndf 105.6 / 89
p0 778.3 ± 0.583
800
790
780
770
760

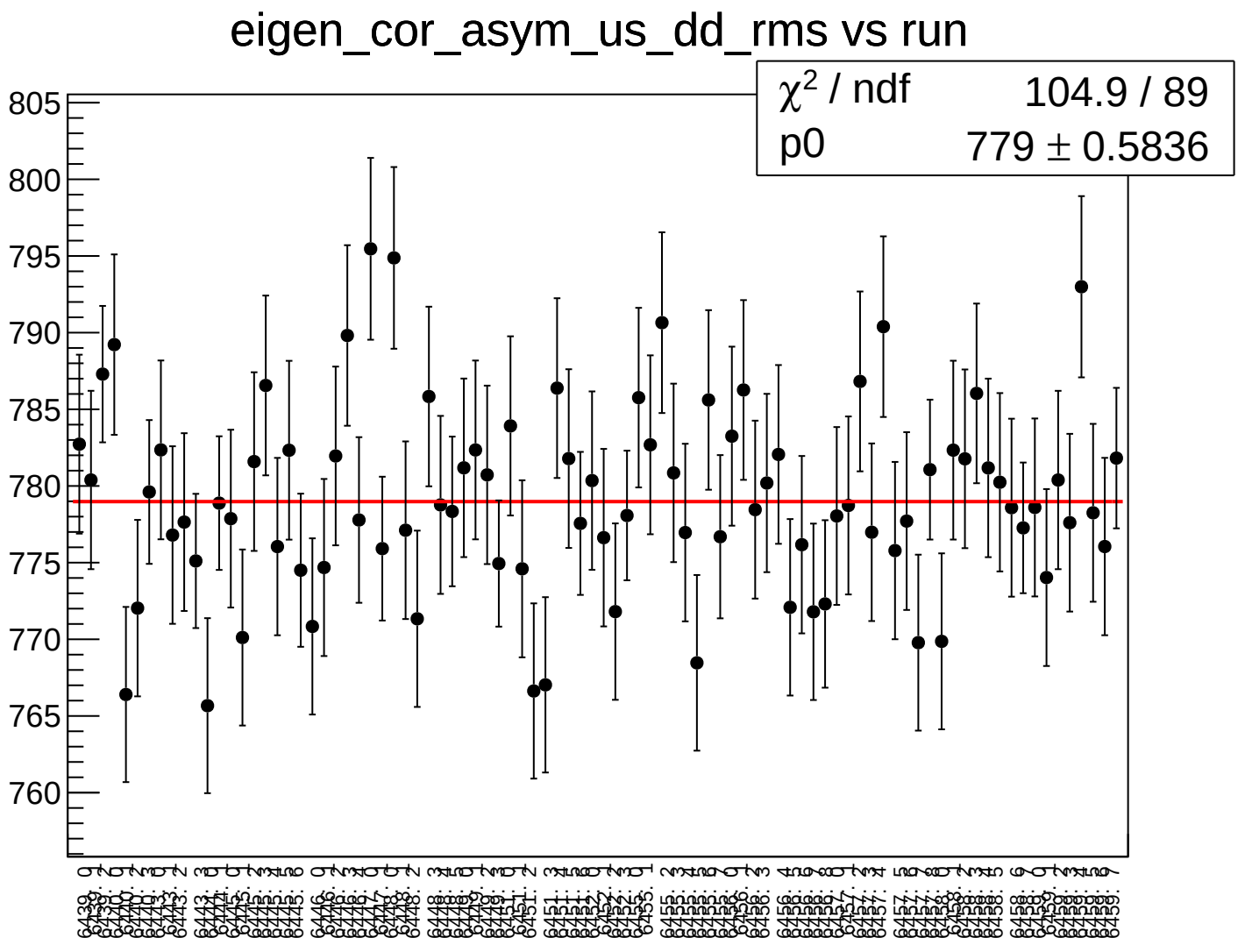

asym_us_dd_overload_cor_correction_mean vs run
χ² / ndf 69.27 / 89
p0 −1637 ± 590.7
pull
Entries 90
Mean 1200
Std Dev 0

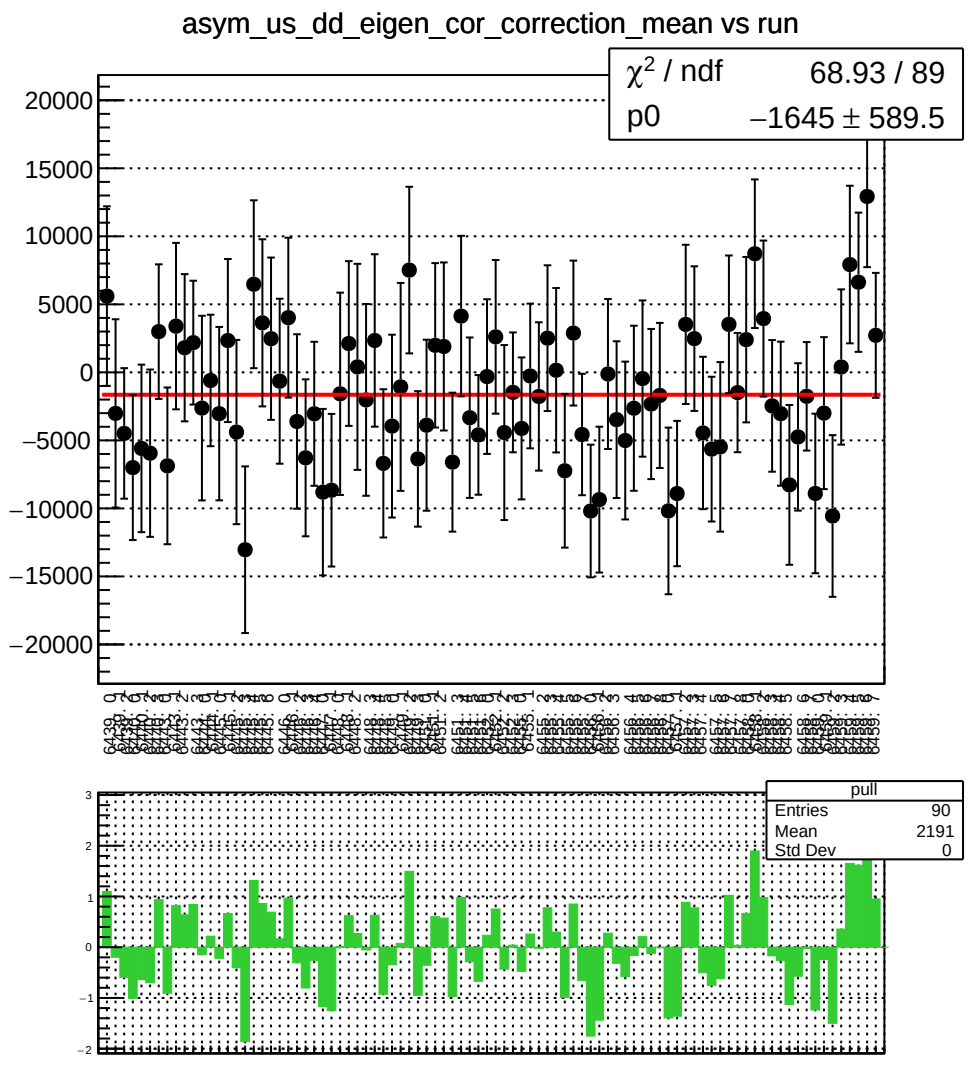

pull1D
Entries 90
Mean 0.001338
Std Dev 0.8773

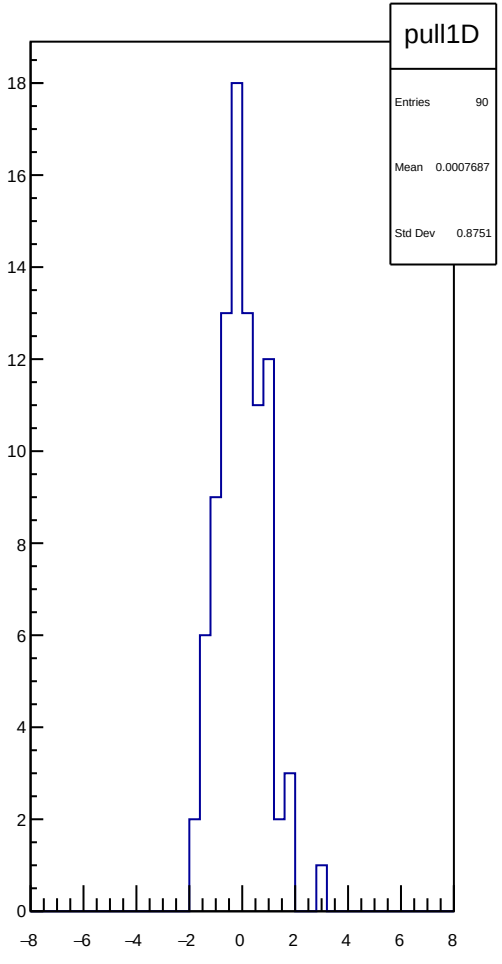

asym_us_dd_overload_cor_correction_rms vs run
χ² / ndf 1.581e+04 / 89
p0 555.1 ± 0.4177
750
700
650
600
550
500
450

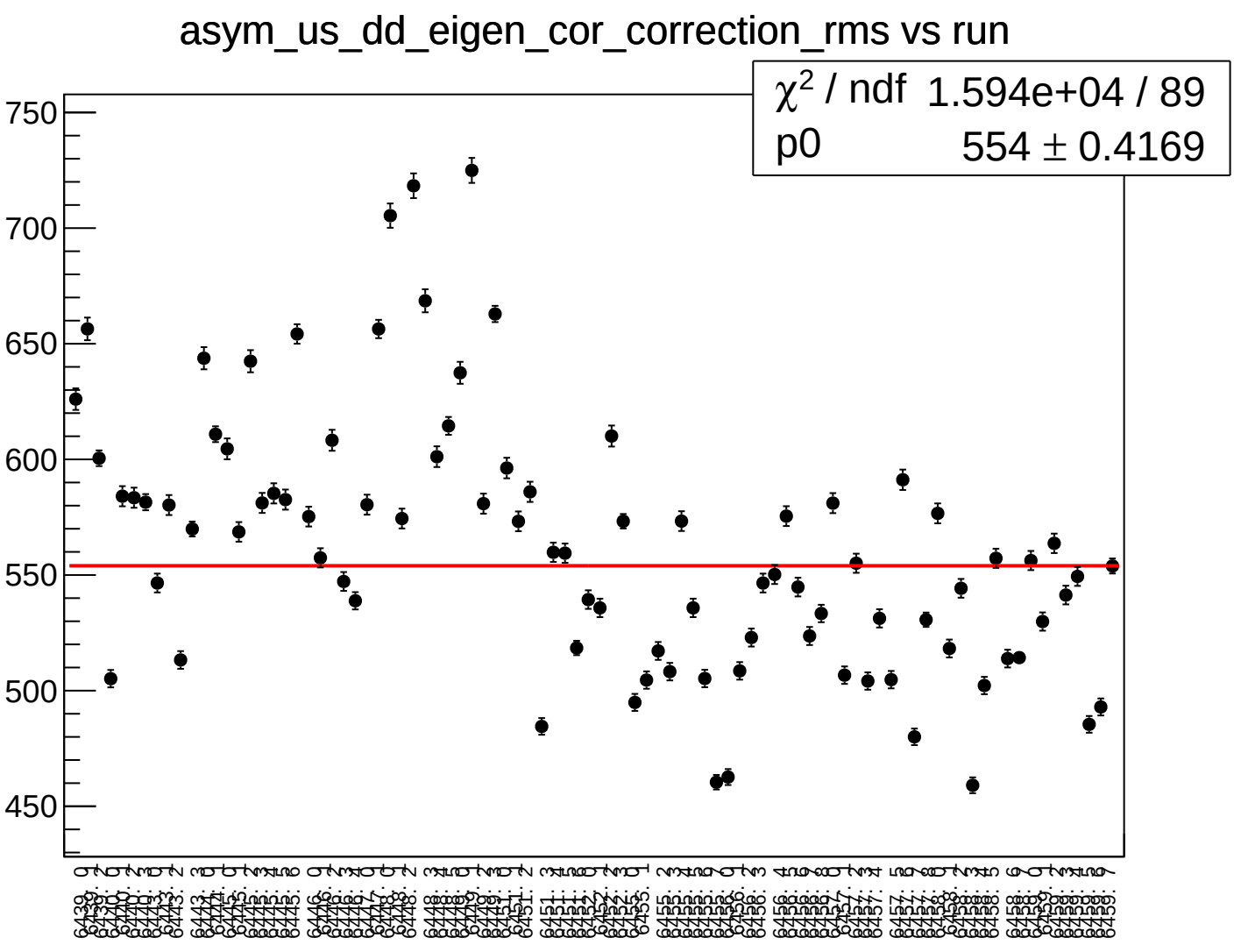

eigen_cor_asym_us_dd_mean vs run
χ² / ndf 87.96 / 89
p0 −779.9 ± 825.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean 4523
Std Dev 0
2
1
0
−1
−2

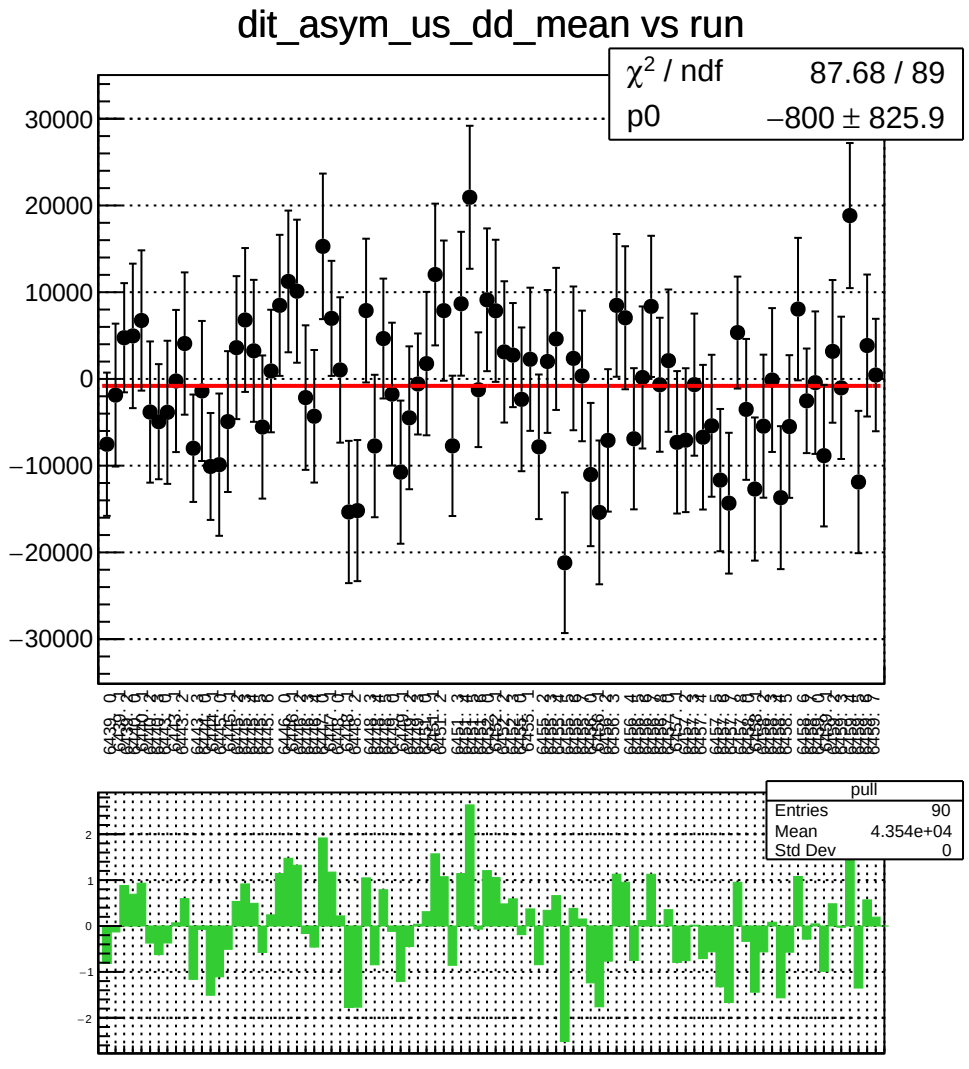

pull1D
Entries 90
Mean −0.0005882
Std Dev 0.9886
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

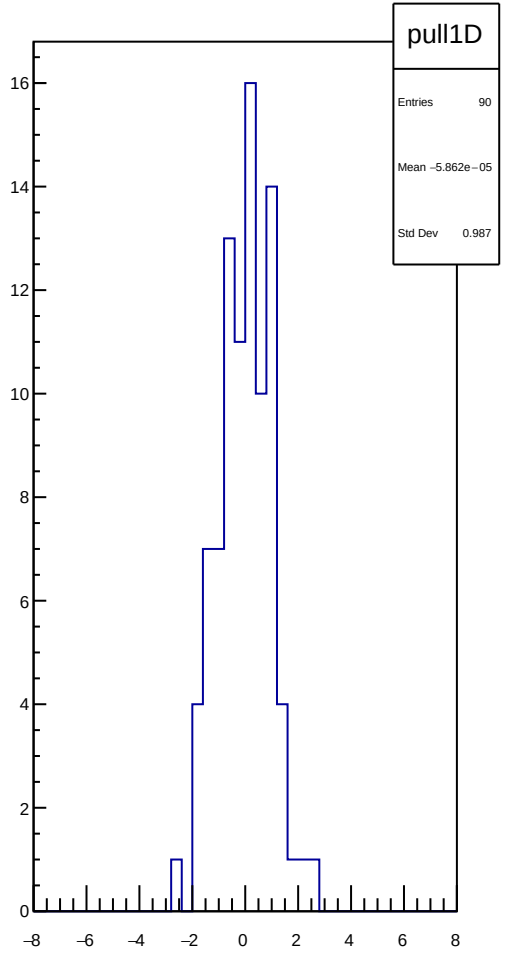

eigen_cor_asym_us_dd_rms vs run
χ² / ndf 104.9 / 89
p0 779 ± 0.5836
805
800
795
790
785
780
775
770
765
760

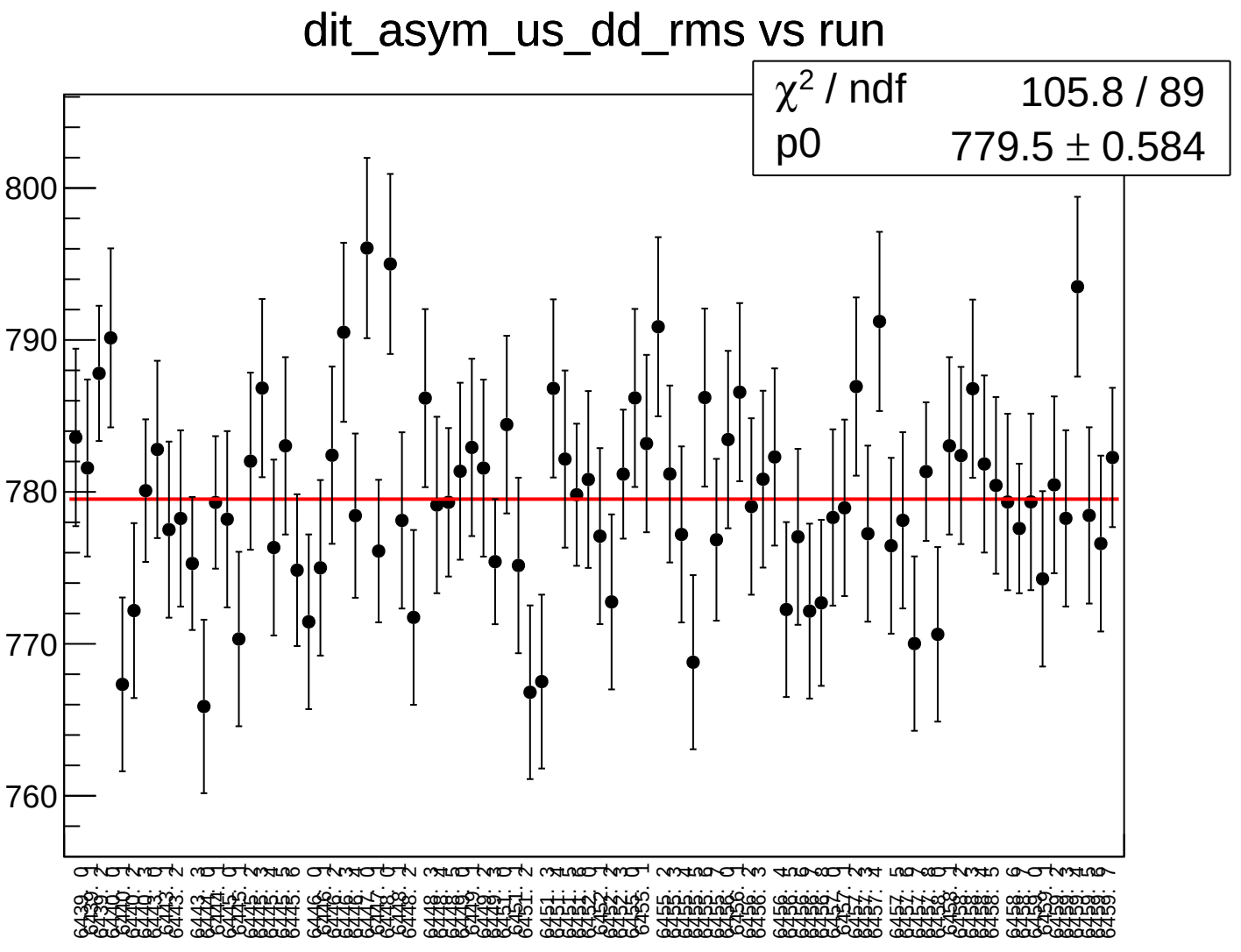

asym_us_dd_eigen_cor_correction_mean vs run
χ² / ndf 68.93 / 89
p0 −1645 ± 589.5
pull
Entries 90
Mean 2191
Std Dev 0

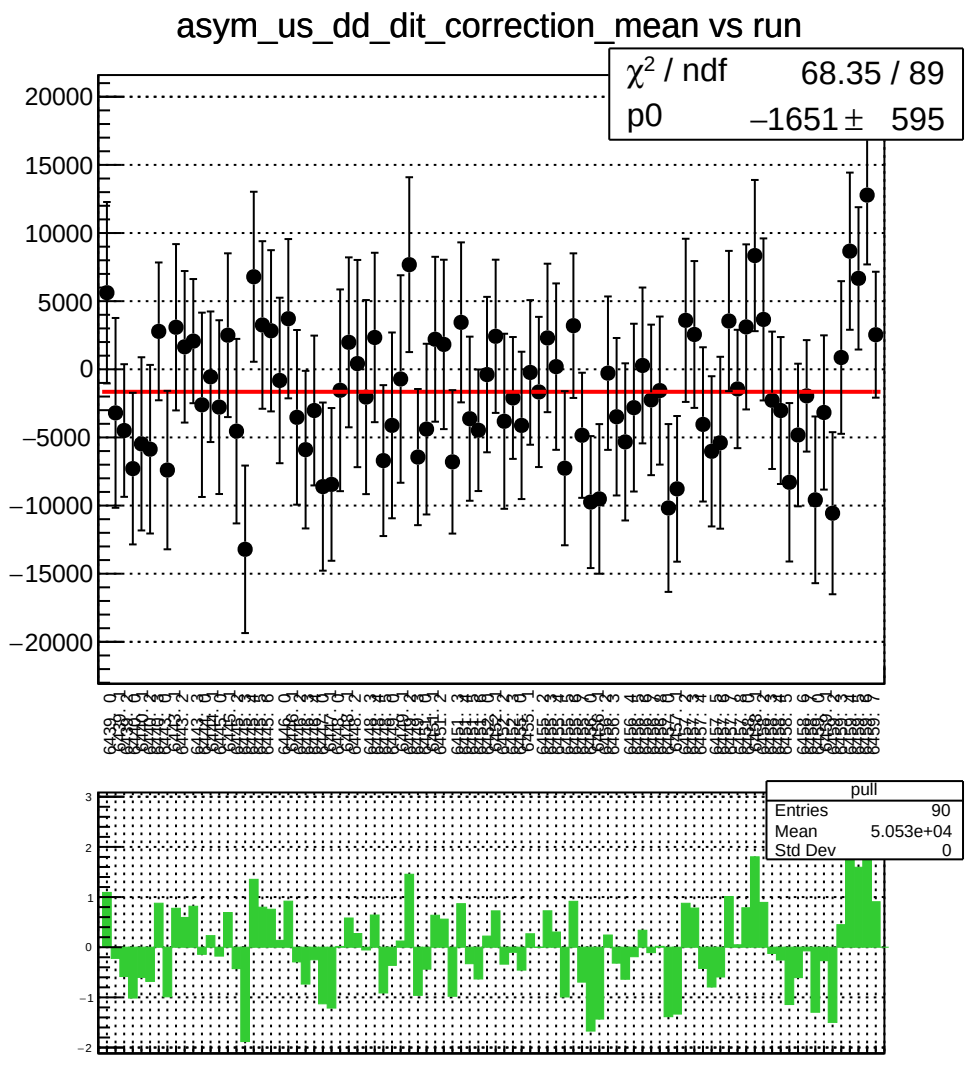

pull1D
Entries 90
Mean 0.0007687
Std Dev 0.8751

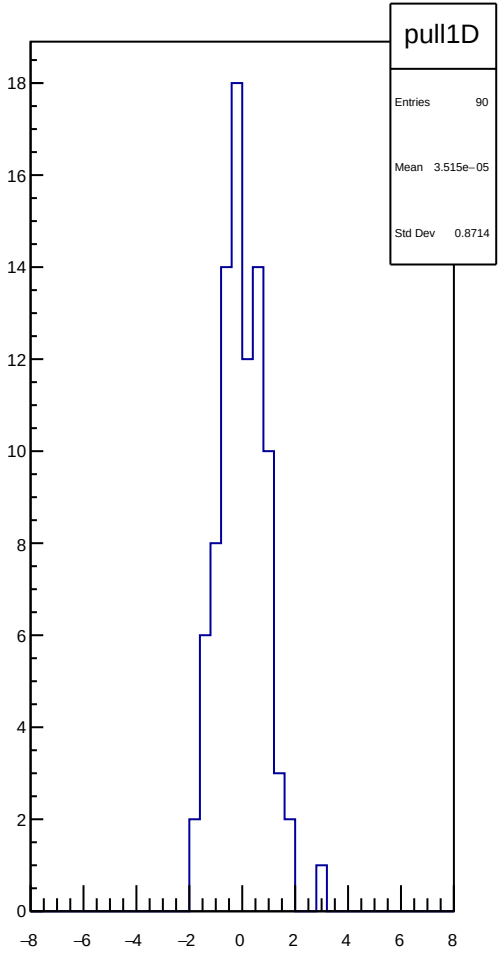

asym_us_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.594e+04 / 89
p0 554 ± 0.4169
750
700
650
600
550
500
450

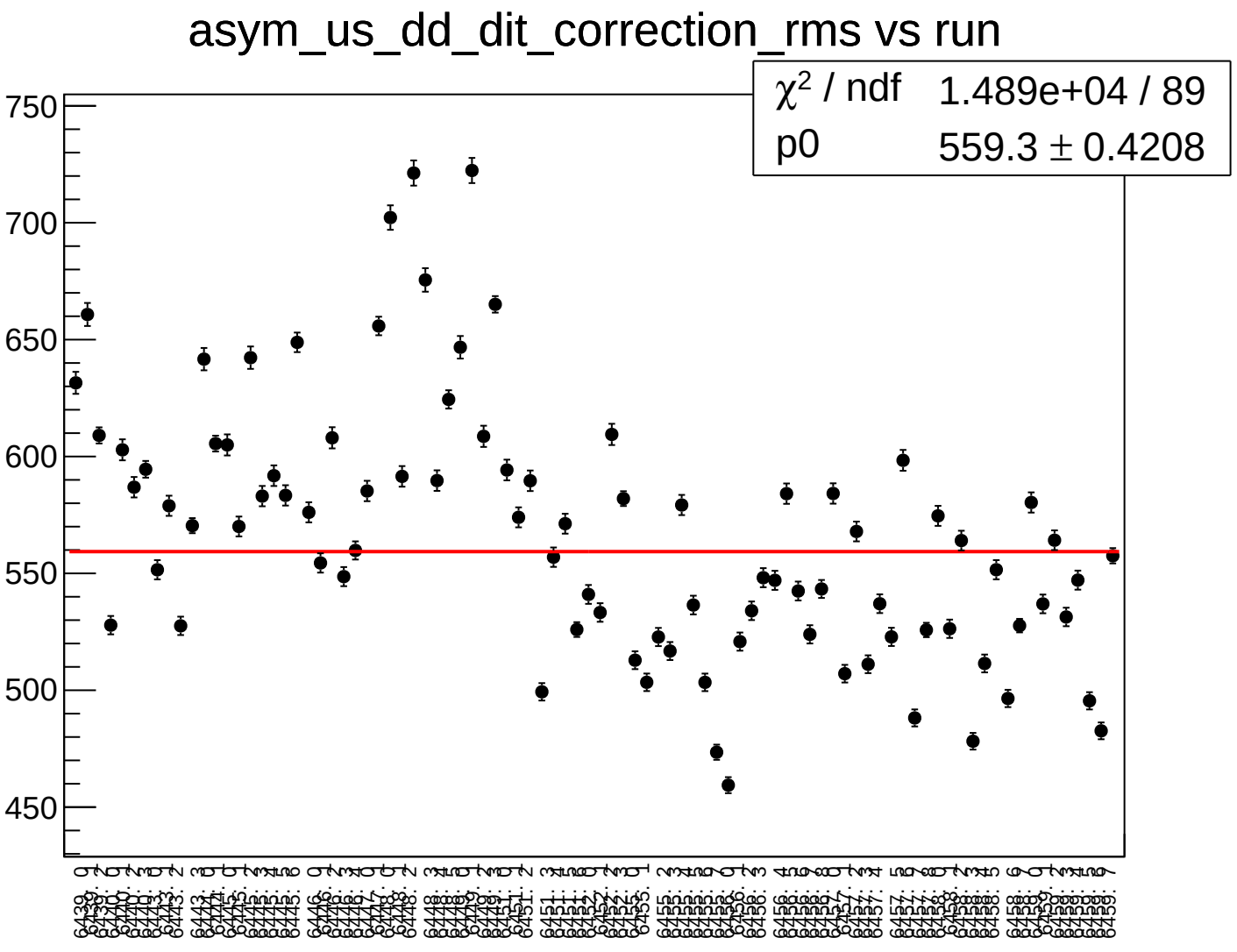

dit_asym_us_dd_mean vs run
χ² / ndf 87.68 / 89
p0 −800 ± 825.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean 4.354e+04
Std Dev 0
2
1
0
−1
−2

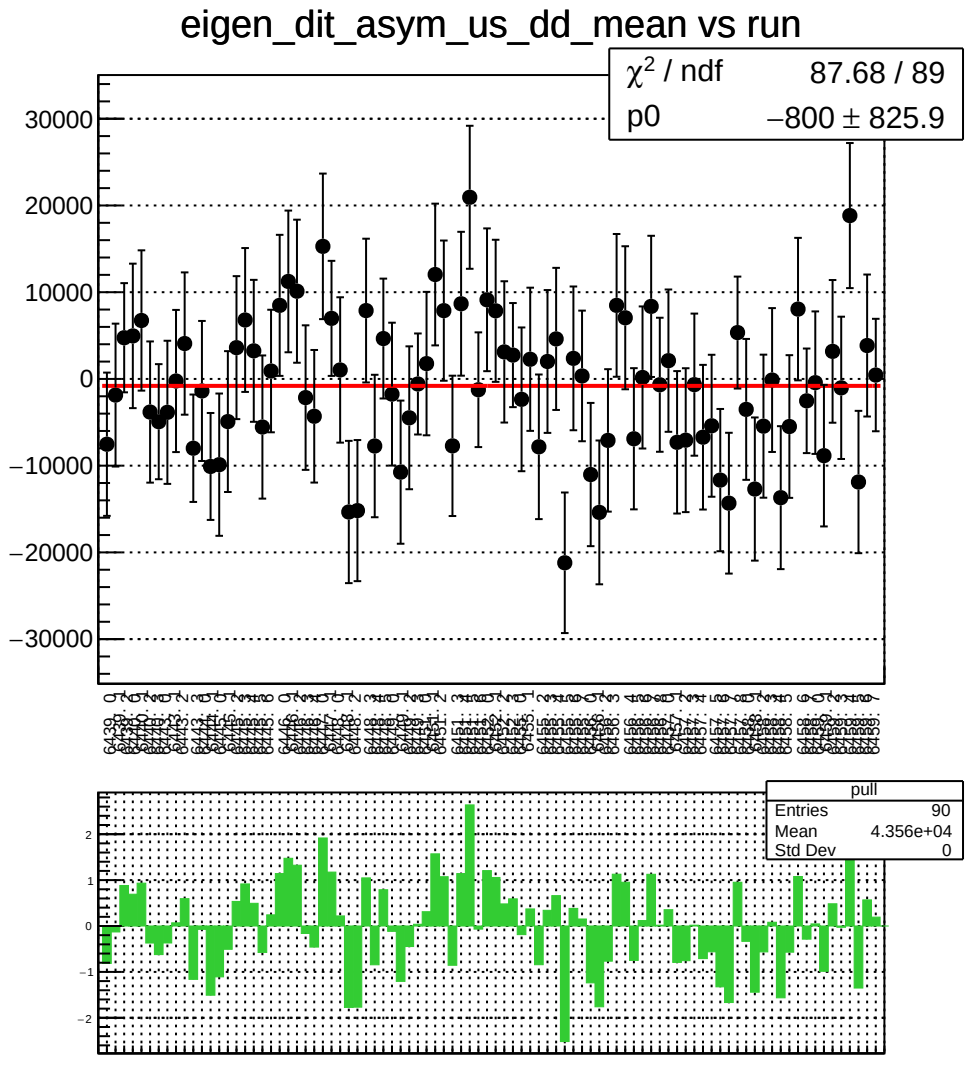

pull1D
Entries 90
Mean −5.862e−05
Std Dev 0.987
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

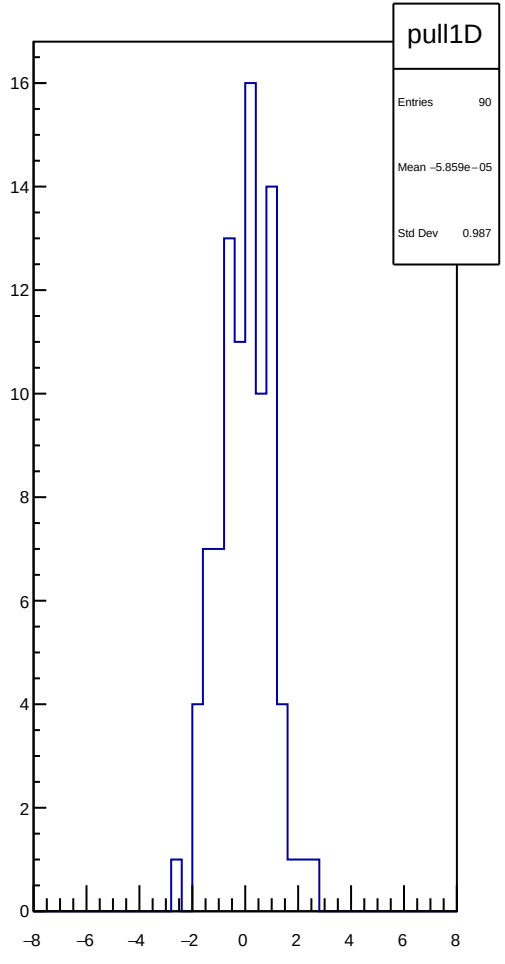

dit_asym_us_dd_rms vs run
χ² / ndf 105.8 / 89
p0 779.5 ± 0.584
800
790
780
770
760

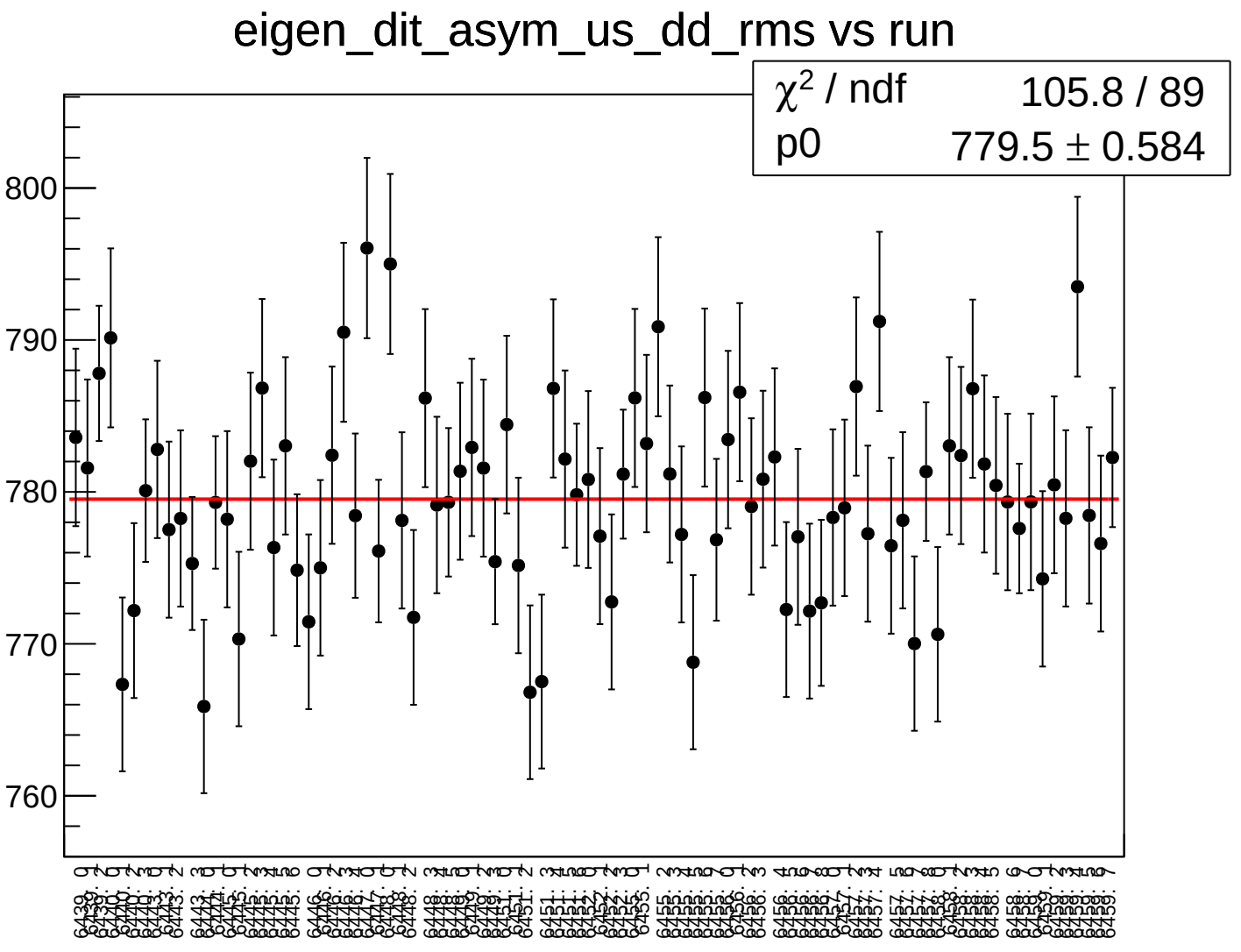

asym_us_dd_dit_correction_mean vs run
χ² / ndf 68.35 / 89
p0 −1651 ± 595
pull
Entries 90
Mean 5.053e+04
Std Dev 0

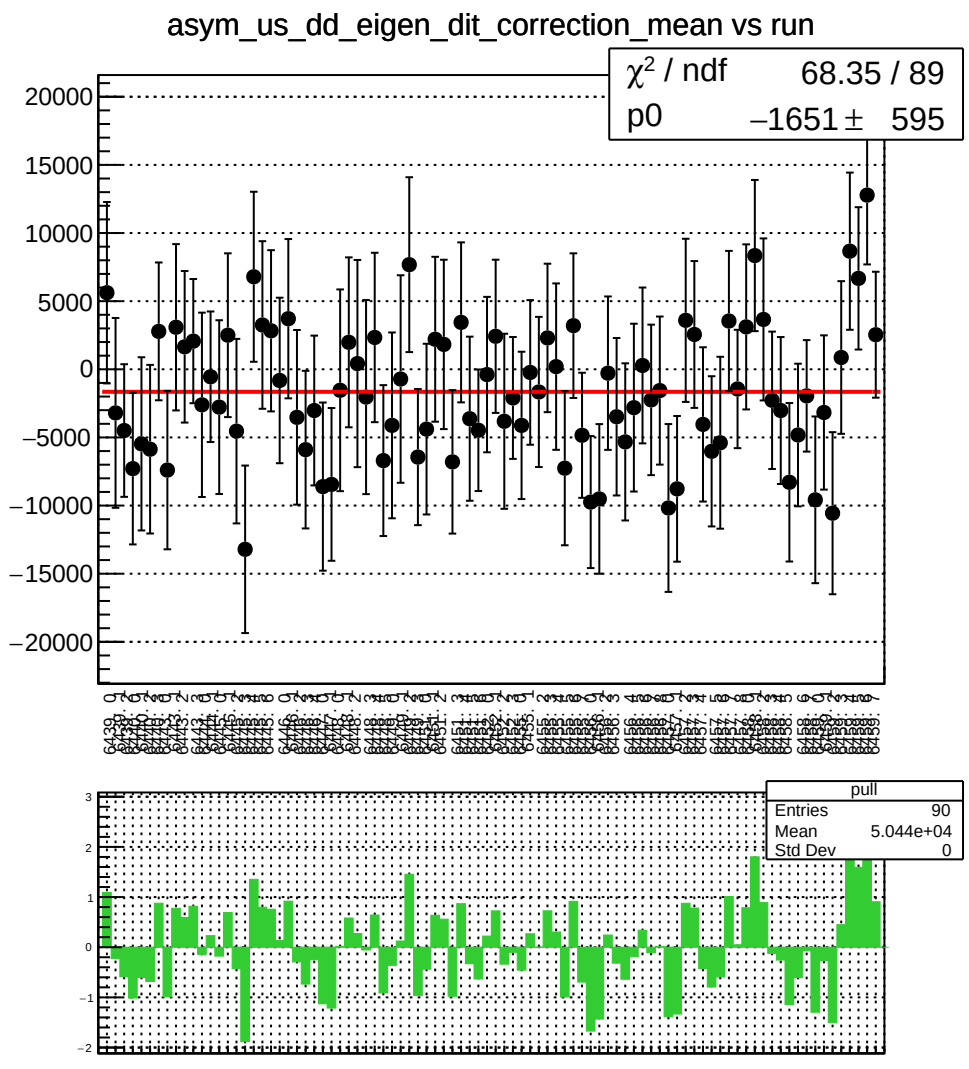

pull1D
Entries 90
Mean 3.515e−05
Std Dev 0.8714

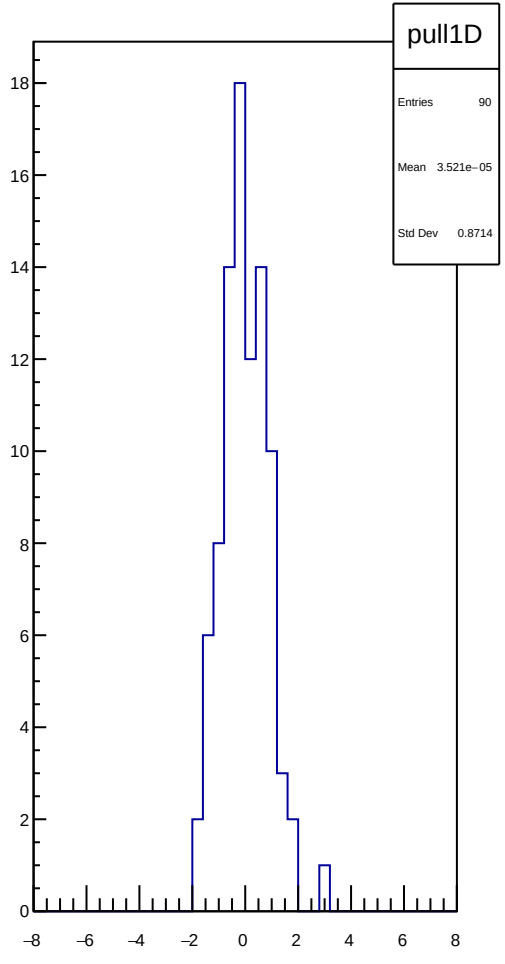

asym_us_dd_dit_correction_rms vs run
χ² / ndf 1.489e+04 / 89
p0 559.3 ± 0.4208
750
700
650
600
550
500
450

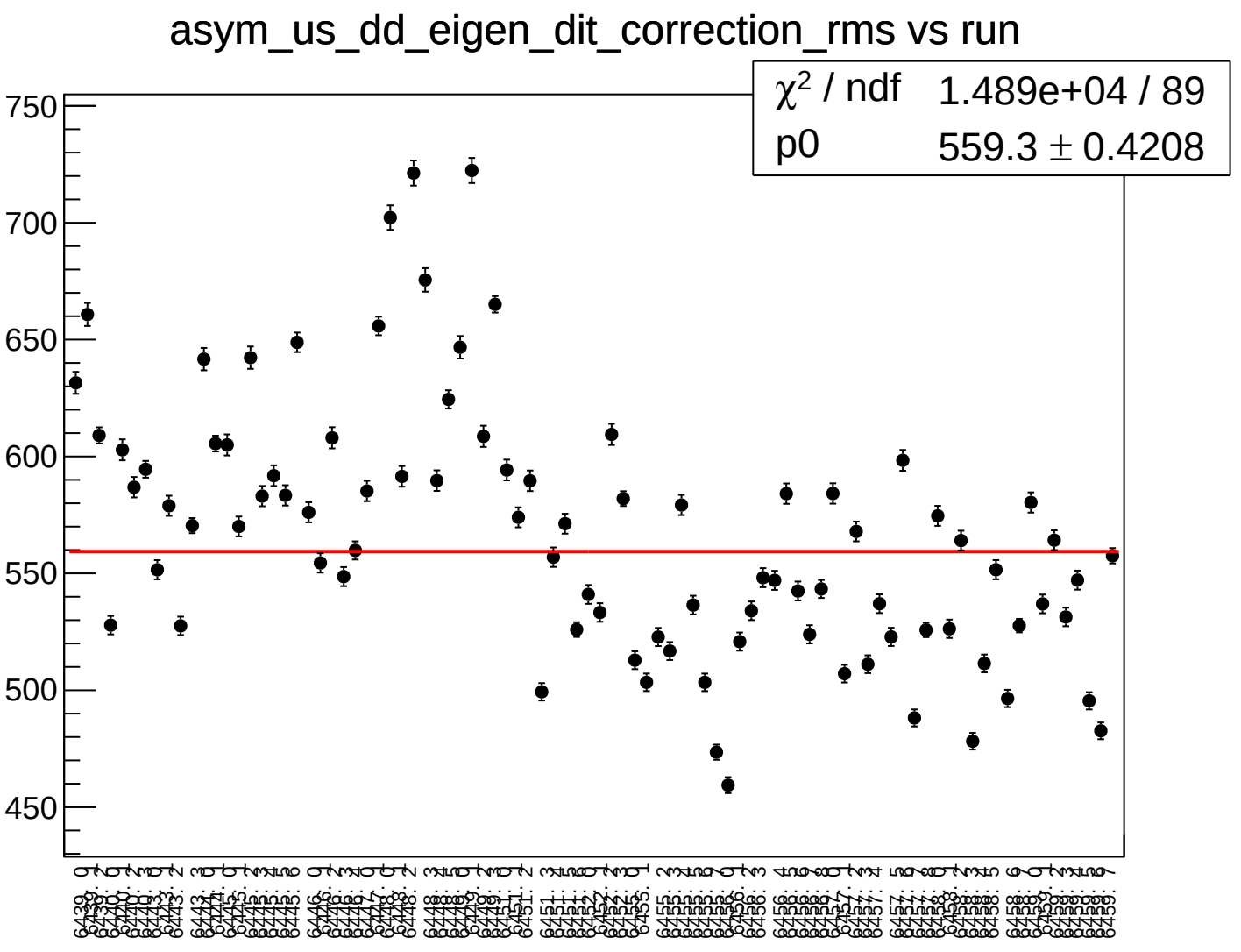

eigen_dit_asym_us_dd_mean vs run
χ² / ndf 87.68 / 89
p0 −800 ± 825.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean 4.356e+04
Std Dev 0
2
1
0
−1
−2

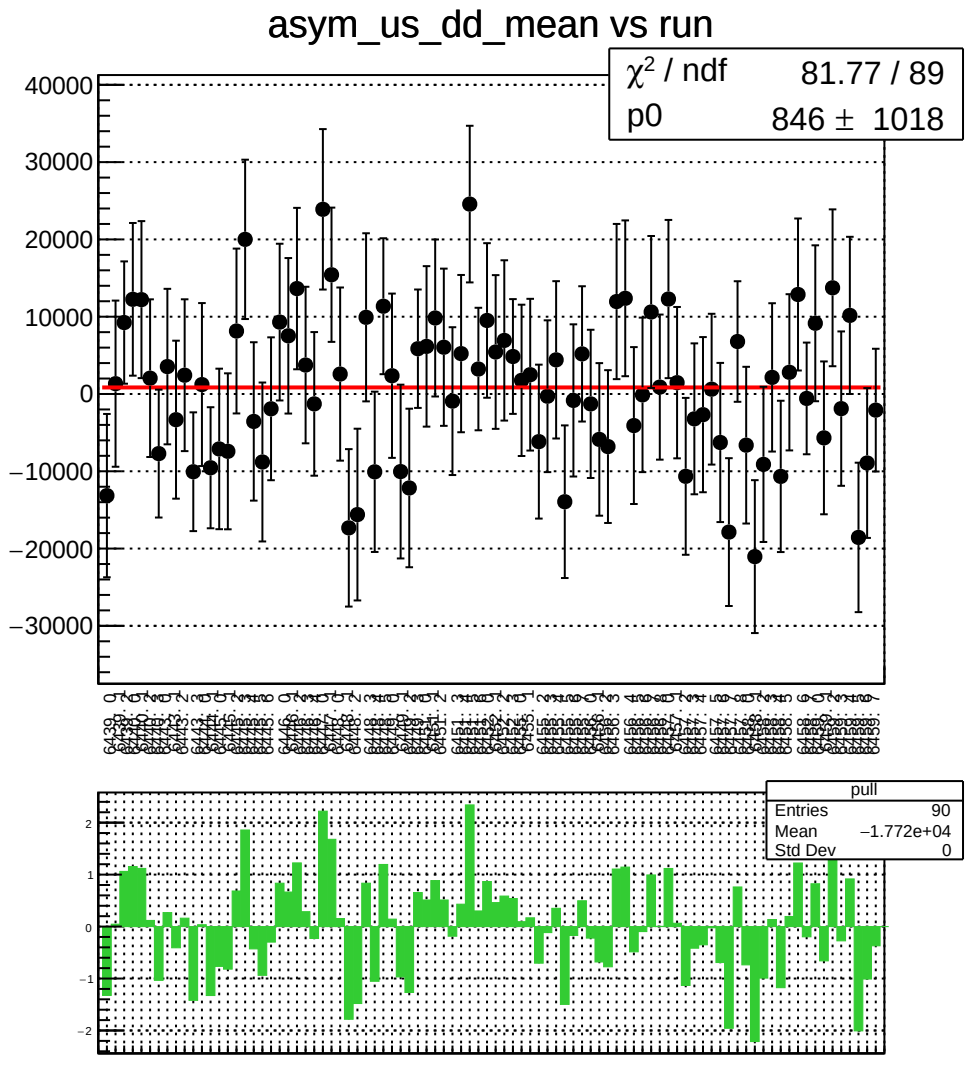

pull1D
Entries 90
Mean −5.859e−05
Std Dev 0.987
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

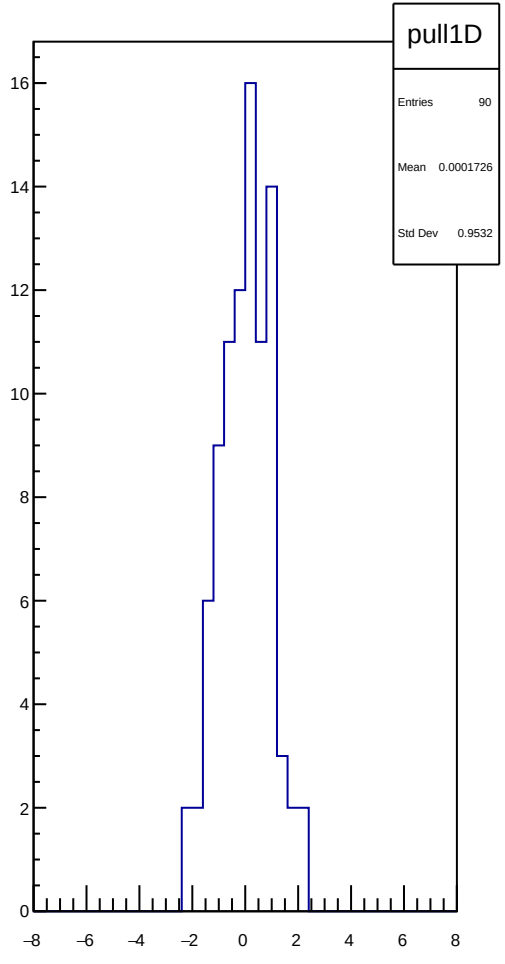

eigen_dit_asym_us_dd_rms vs run
χ² / ndf 105.8 / 89
p0 779.5 ± 0.584
800
790
780
770
760

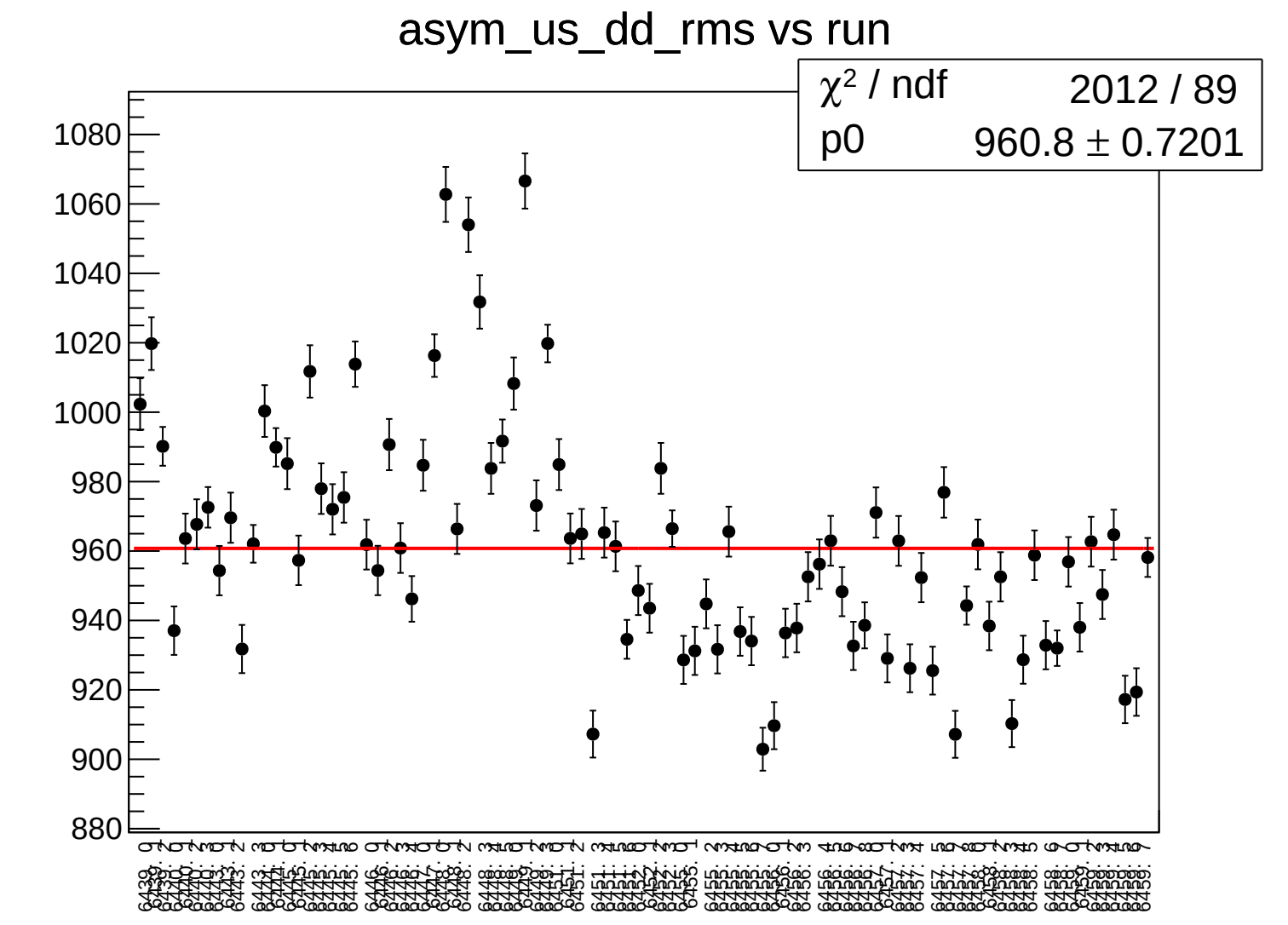

asym_us_dd_eigen_dit_correction_mean vs run
χ² / ndf 68.35 / 89
p0 −1651 ± 595
pull
Entries 90
Mean 5.044e+04
Std Dev 0

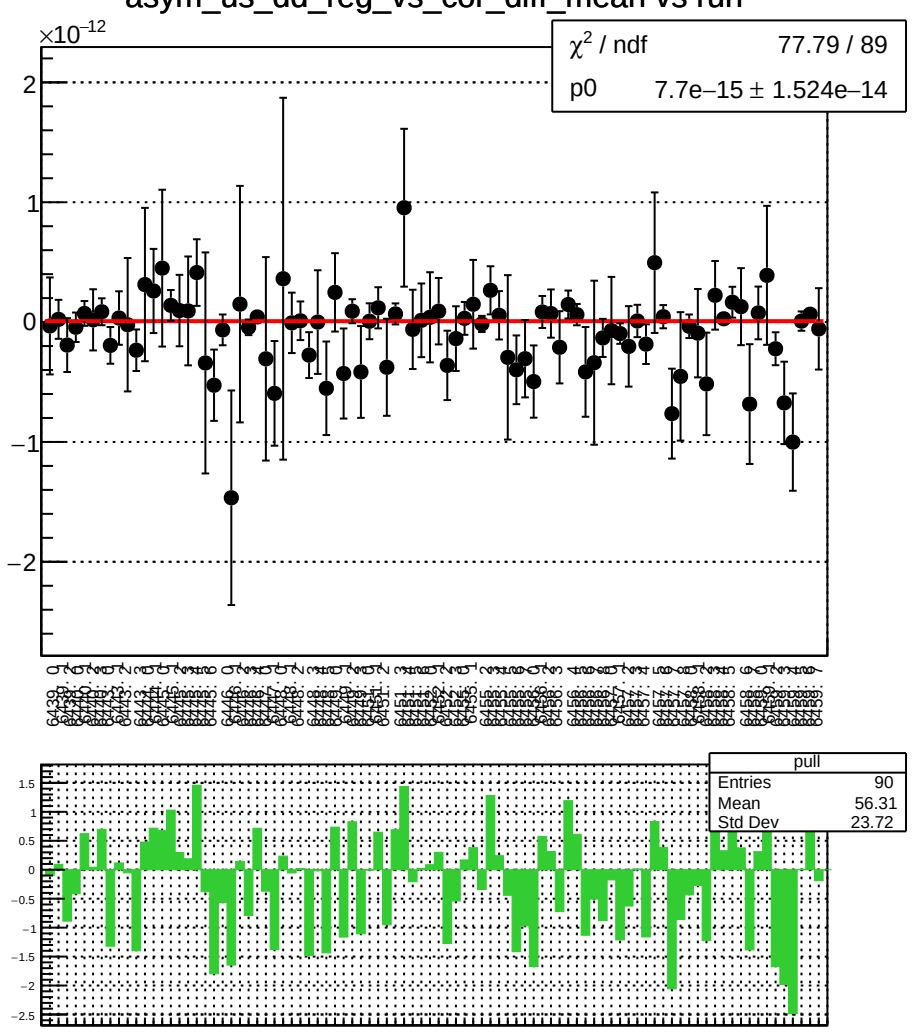

pull1D
Entries 90
Mean 3.521e−05
Std Dev 0.8714

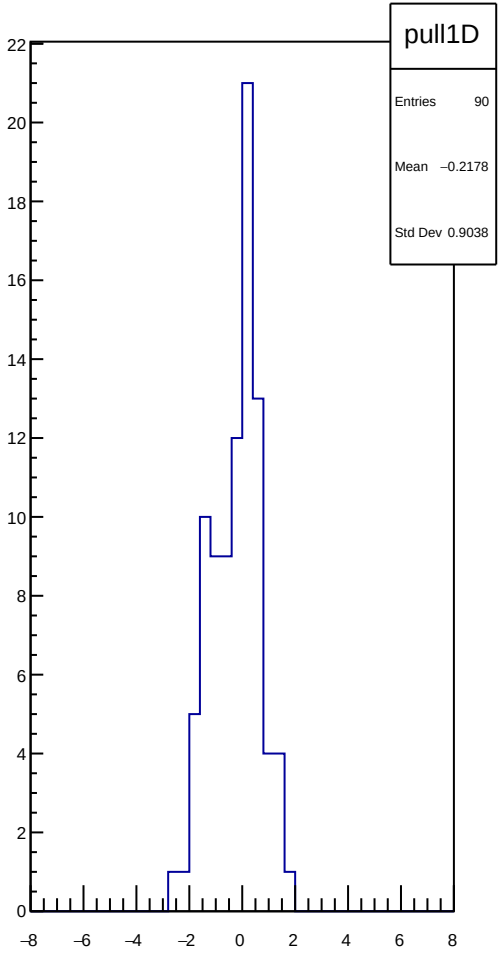

asym_us_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.489e+04 / 89
p0 559.3 ± 0.4208
750
700
650
600
550
500
450

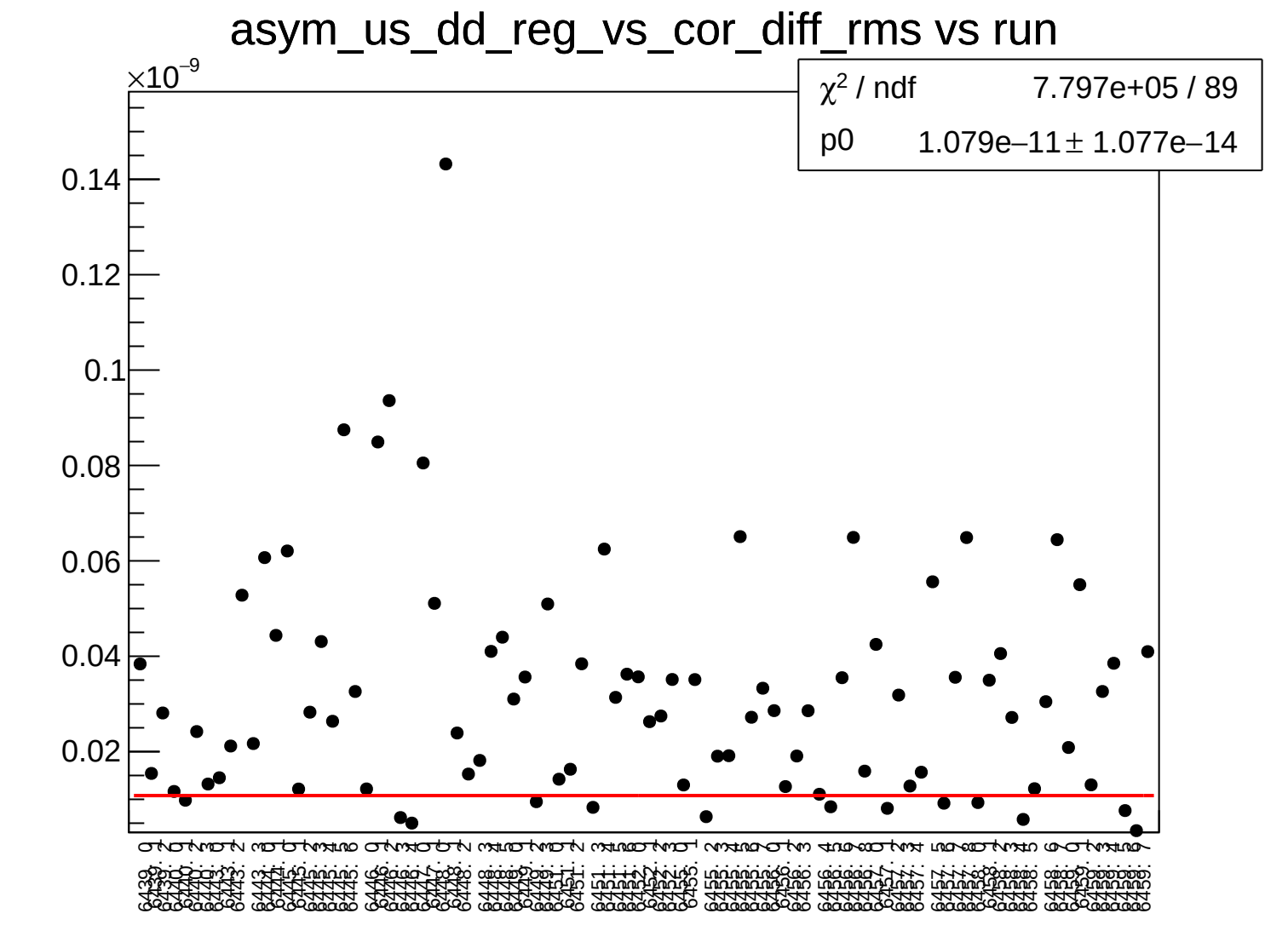

asym_us_dd_mean vs run
χ^2 / ndf 81.77 / 89
p0 846 ± 1018
pull
Entries 90
Mean −1.772e+04
Std Dev 0

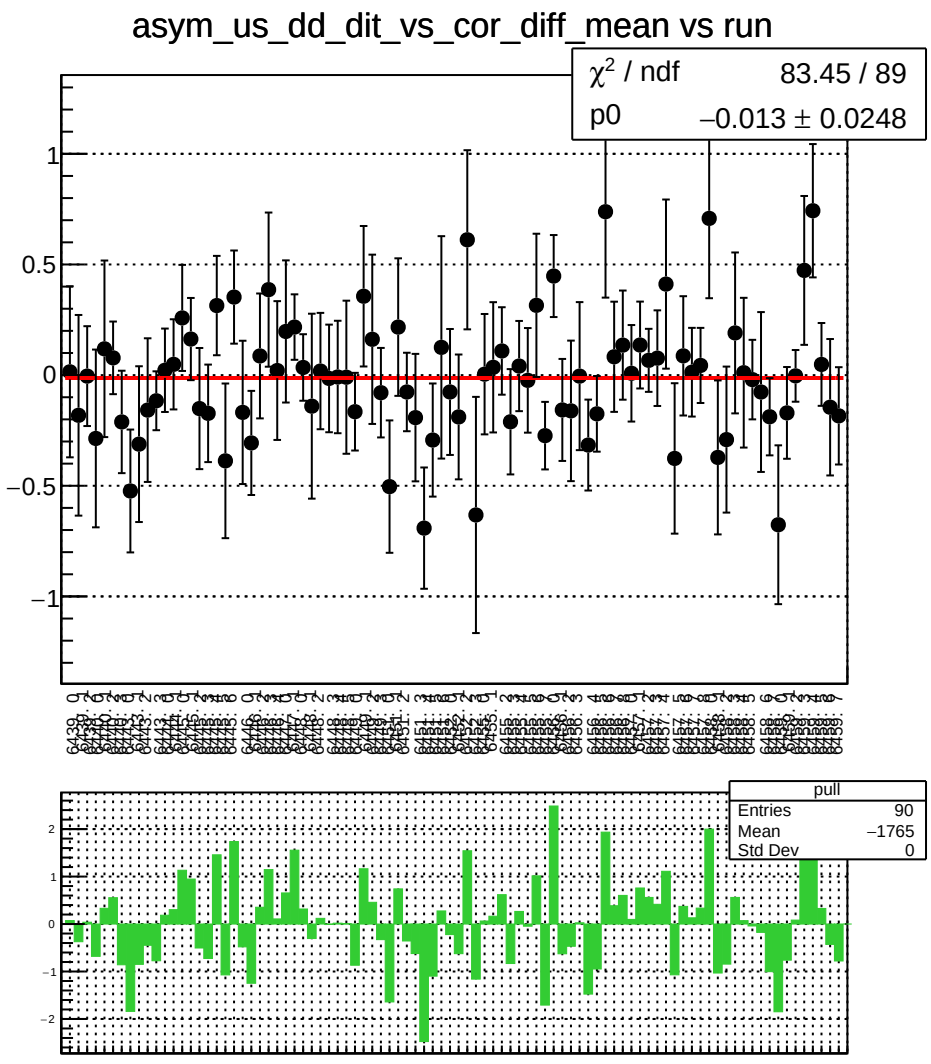

pull1D
Entries 90
Mean 0.0001726
Std Dev 0.9532

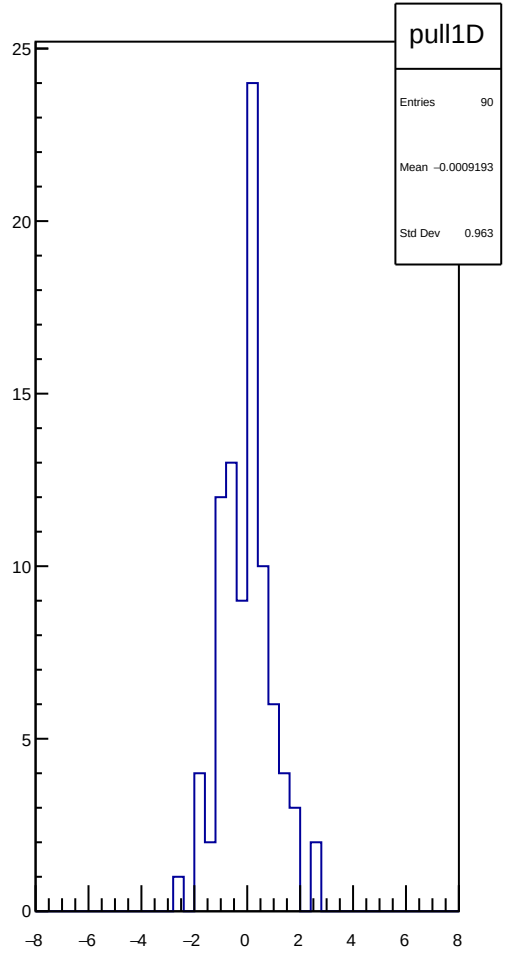

asym_us_dd_rms vs run
χ² / ndf 2012 / 89
p0 960.8 ± 0.7201
1080
1060
1040
1020
1000
980
960
940
920
900
880

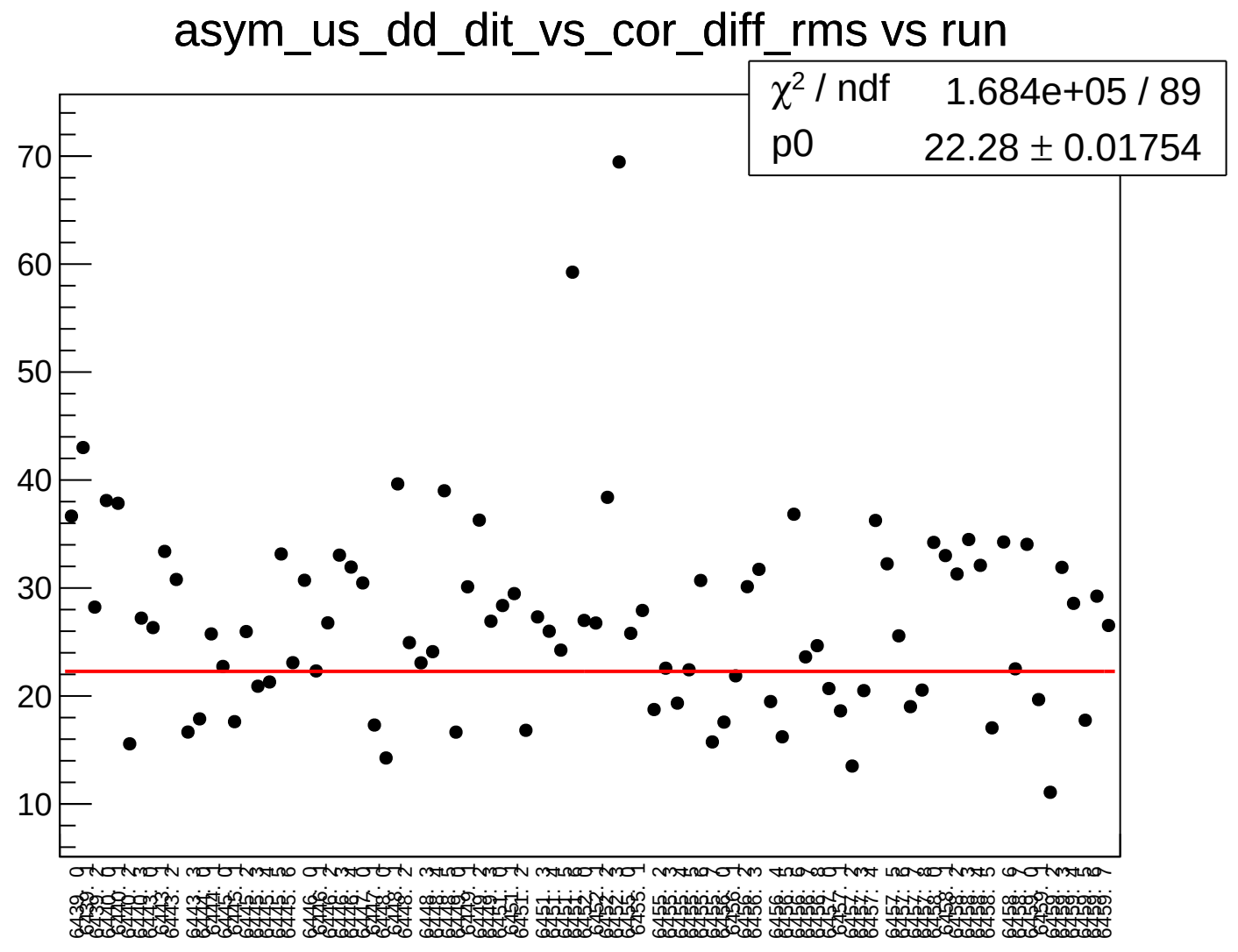

asym_us_dd_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.79 / 89
p0 7.7e−15 ± 1.524e−14
pull
Entries 90
Mean 56.31
Std Dev 23.72

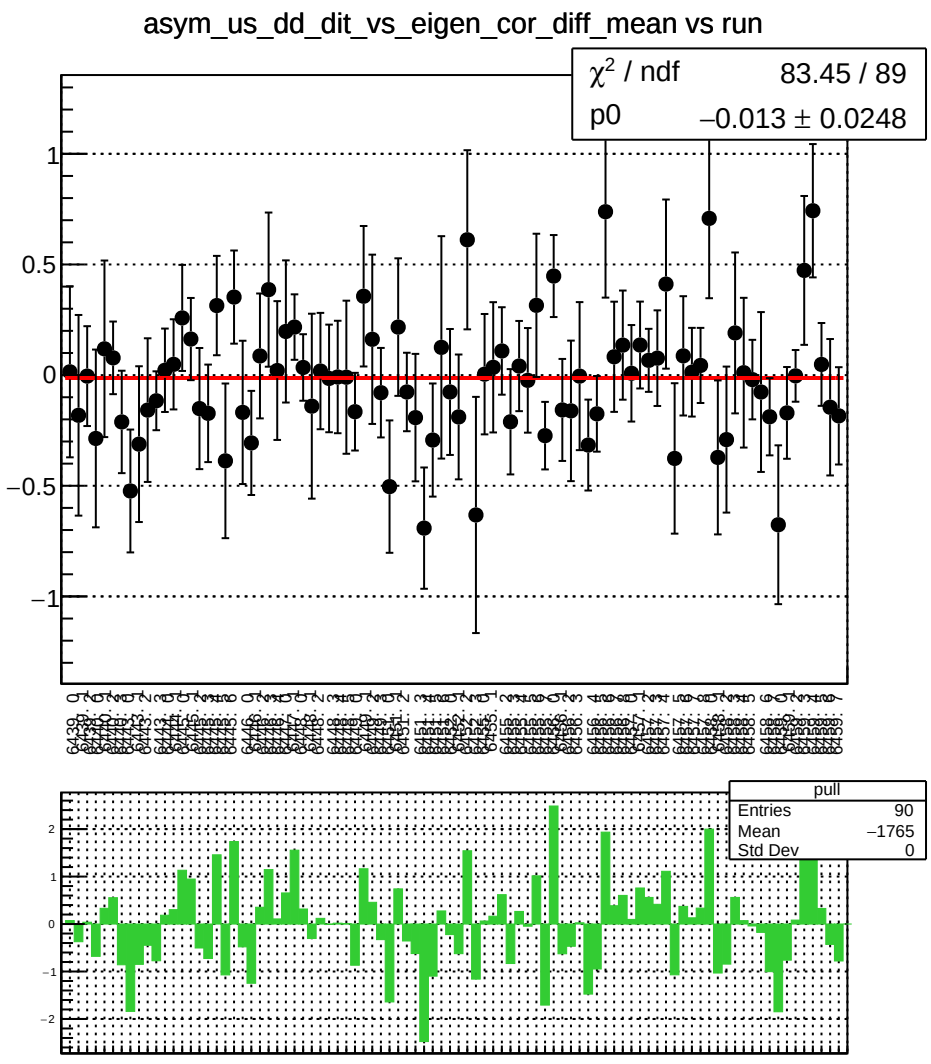

pull1D
Entries 90
Mean −0.2178
Std Dev 0.9038

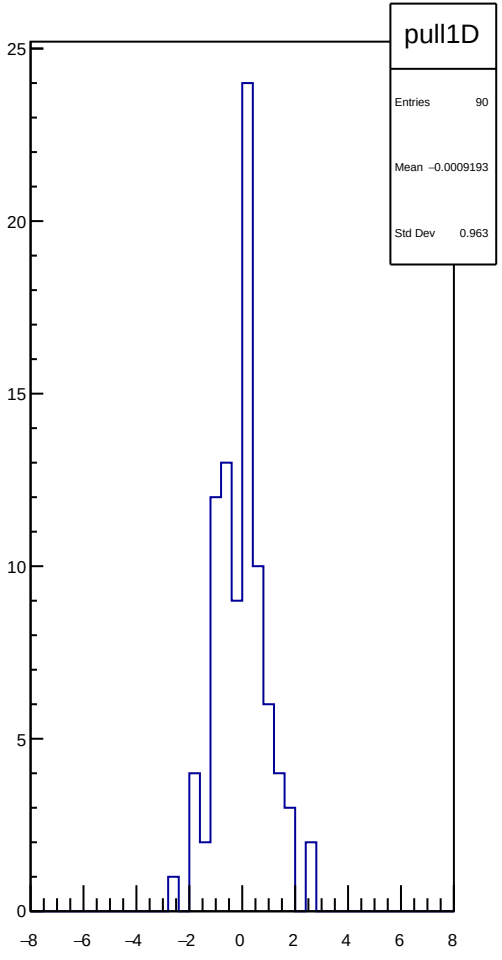

asym_us_dd_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.797e+05 / 89
p0 1.079e−11 ± 1.077e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

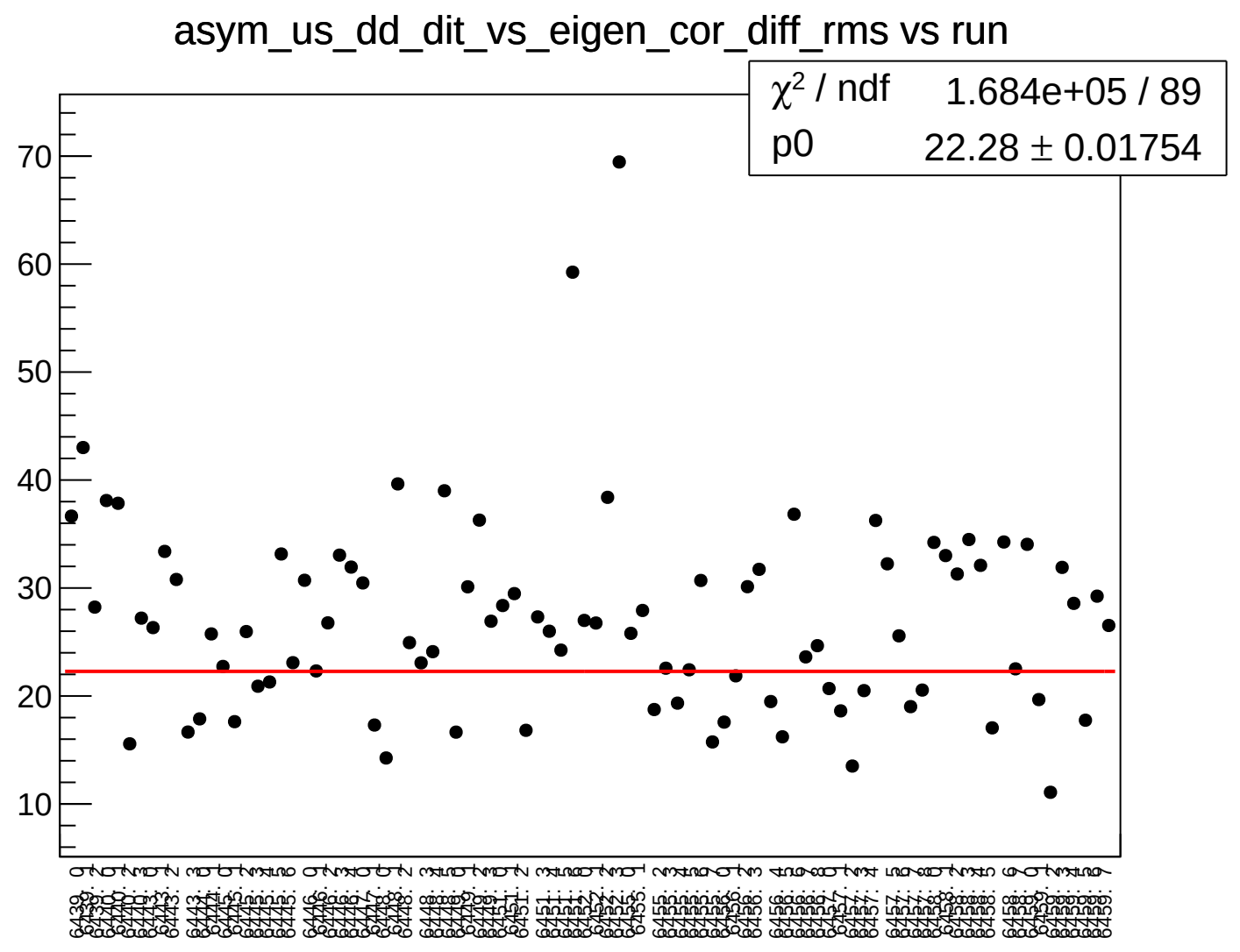

asym_us_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 83.45 / 89
p0 −0.013 ± 0.0248
pull
Entries 90
Mean −1765
Std Dev 0

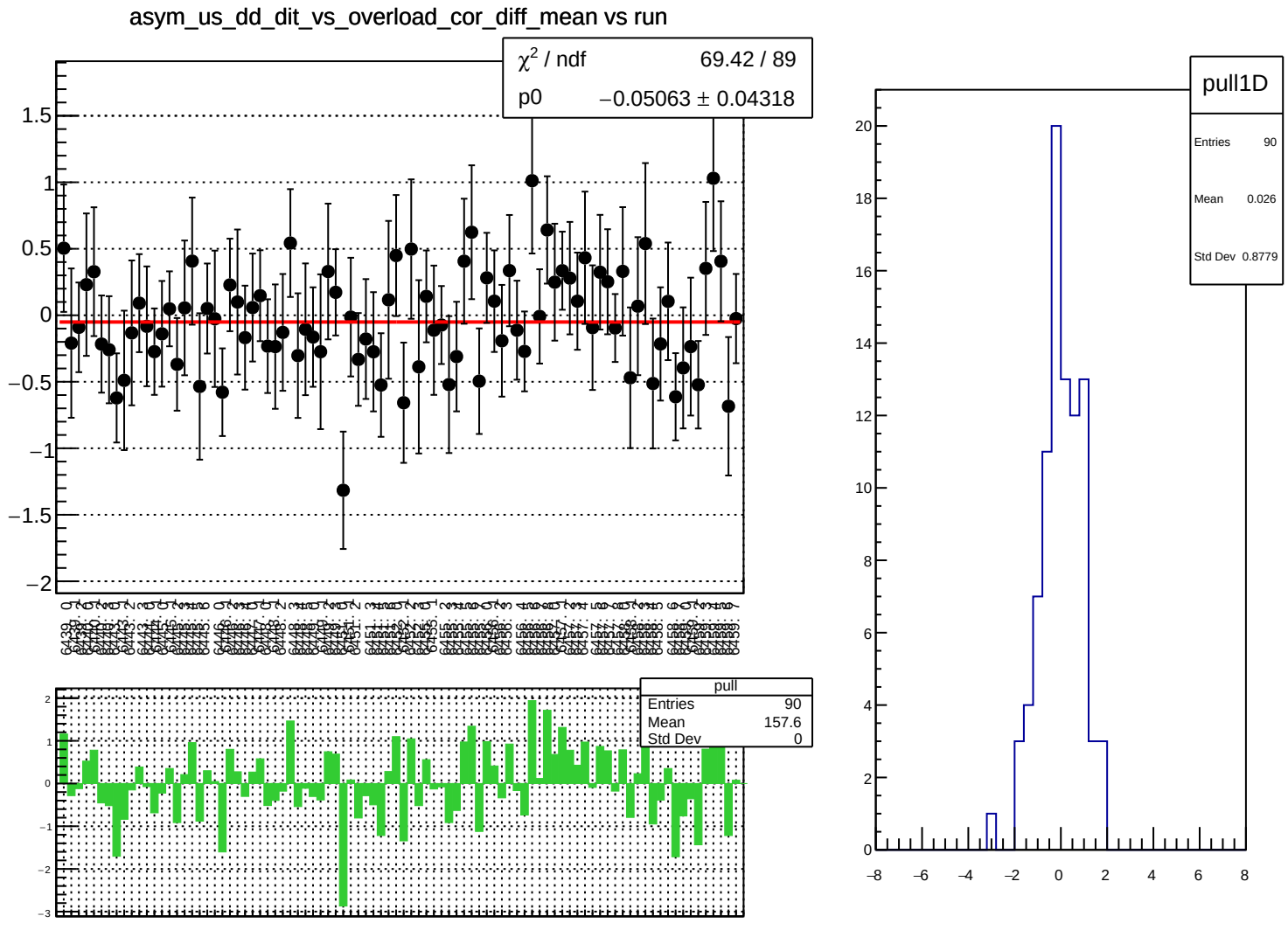

pull1D
Entries 90
Mean −0.0009193
Std Dev 0.963

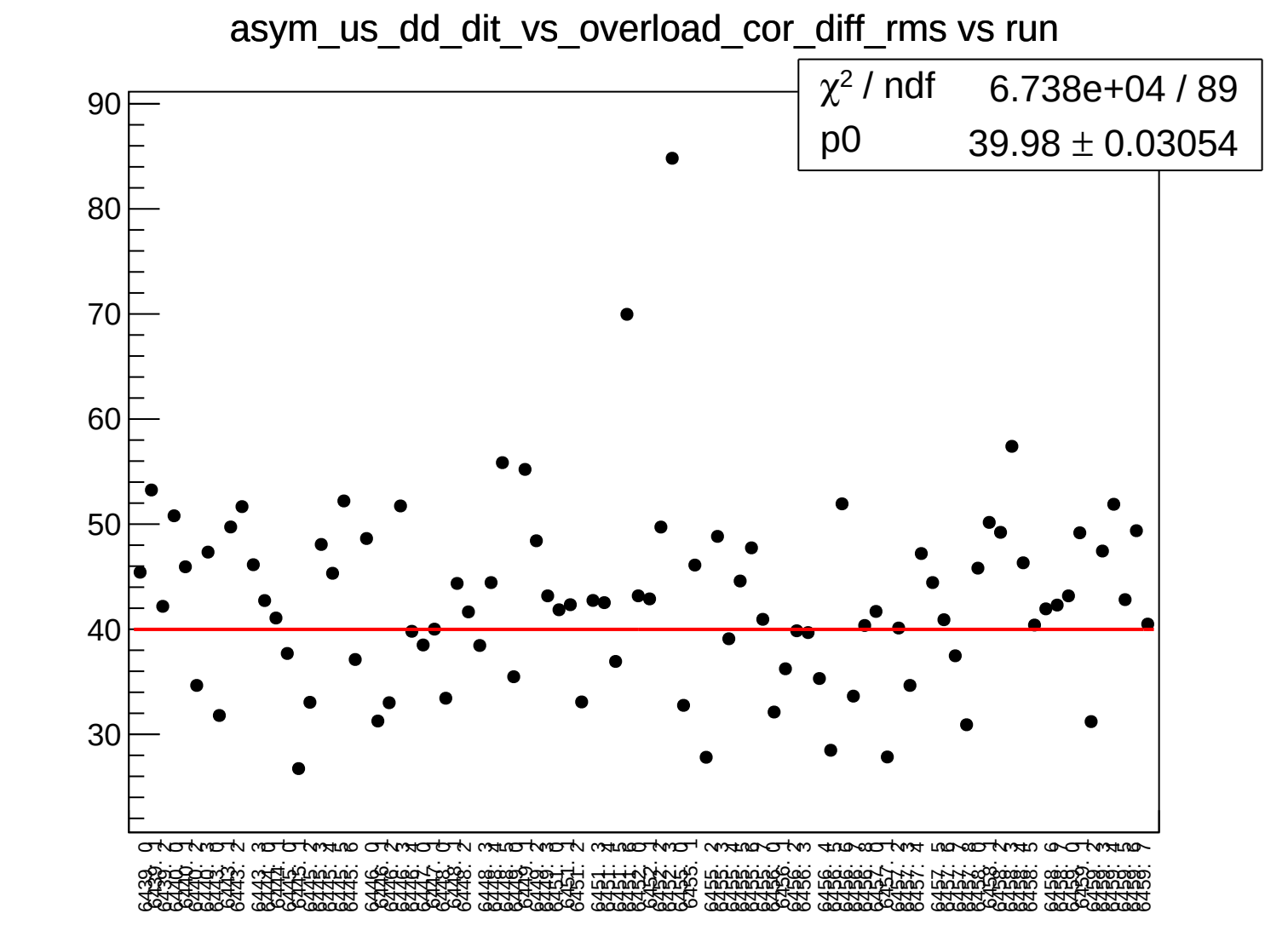

asym_us_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.684e+05 / 89
p0 22.28 ± 0.01754
70
60
50
40
30
20
10

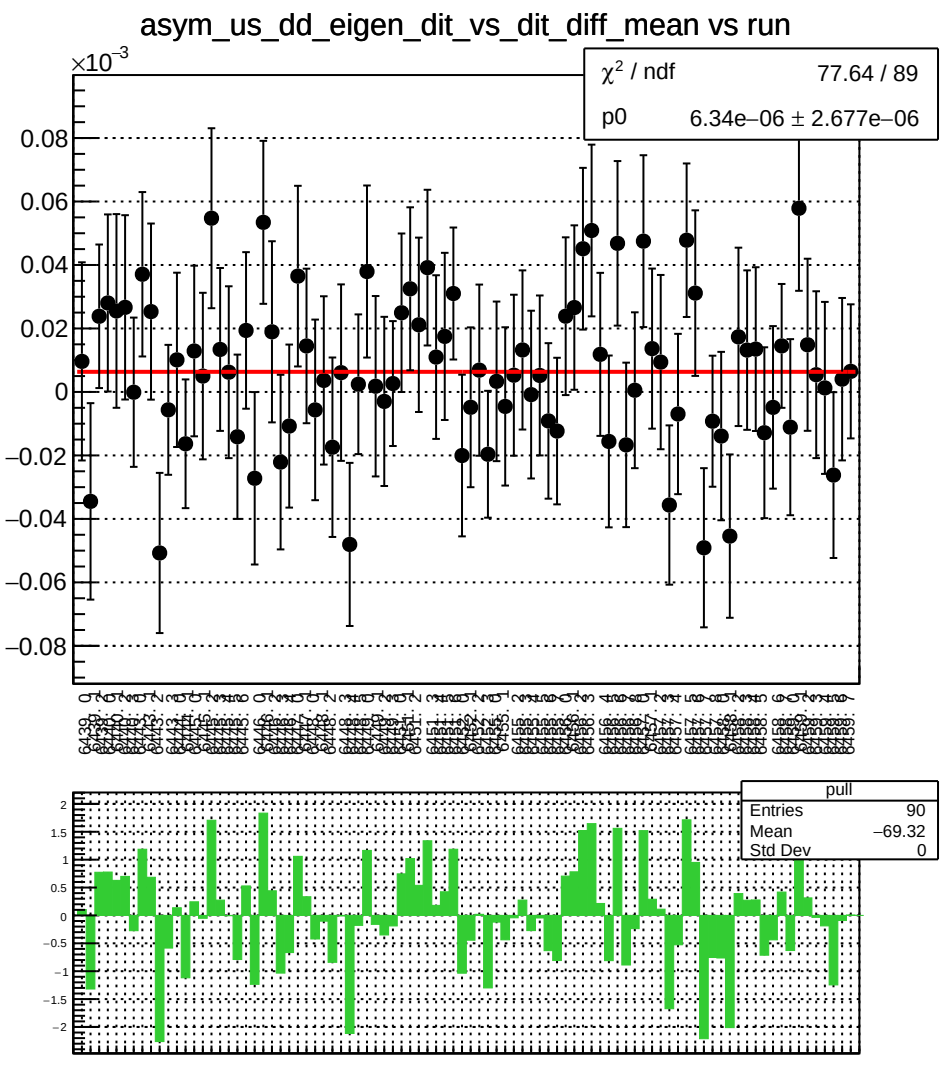

asym_us_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.45 / 89
p0 −0.013 ± 0.0248
pull
Entries 90
Mean −1765
Std Dev 0

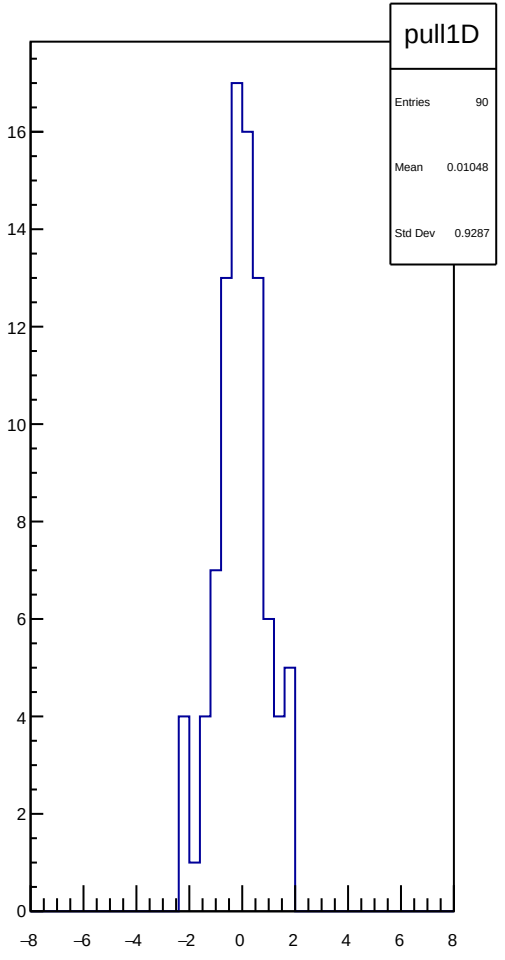

pull1D
Entries 90
Mean −0.0009193
Std Dev 0.963

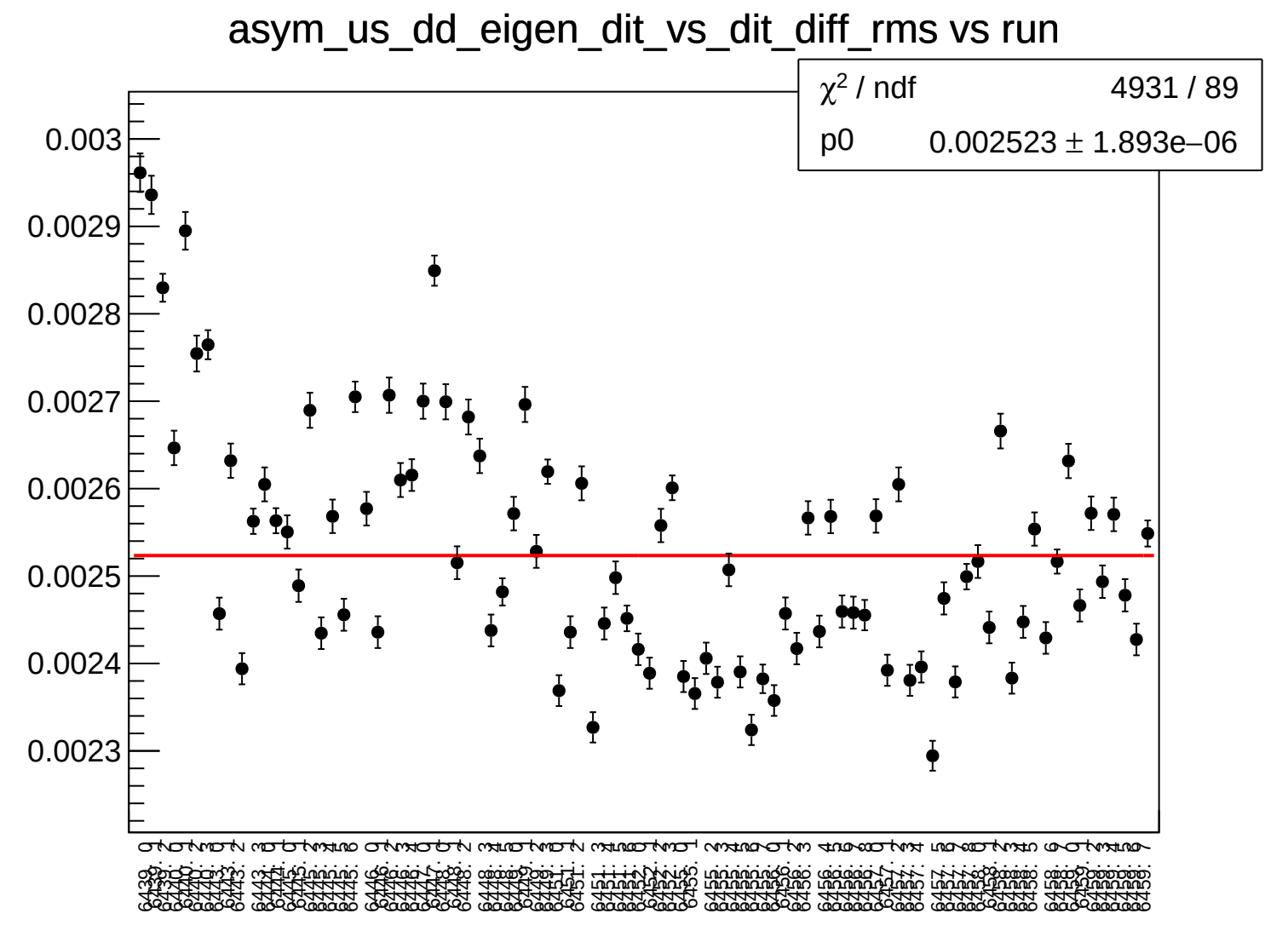

asym_us_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.684e+05 / 89
p0 22.28 ± 0.01754
70
60
50
40
30
20
10

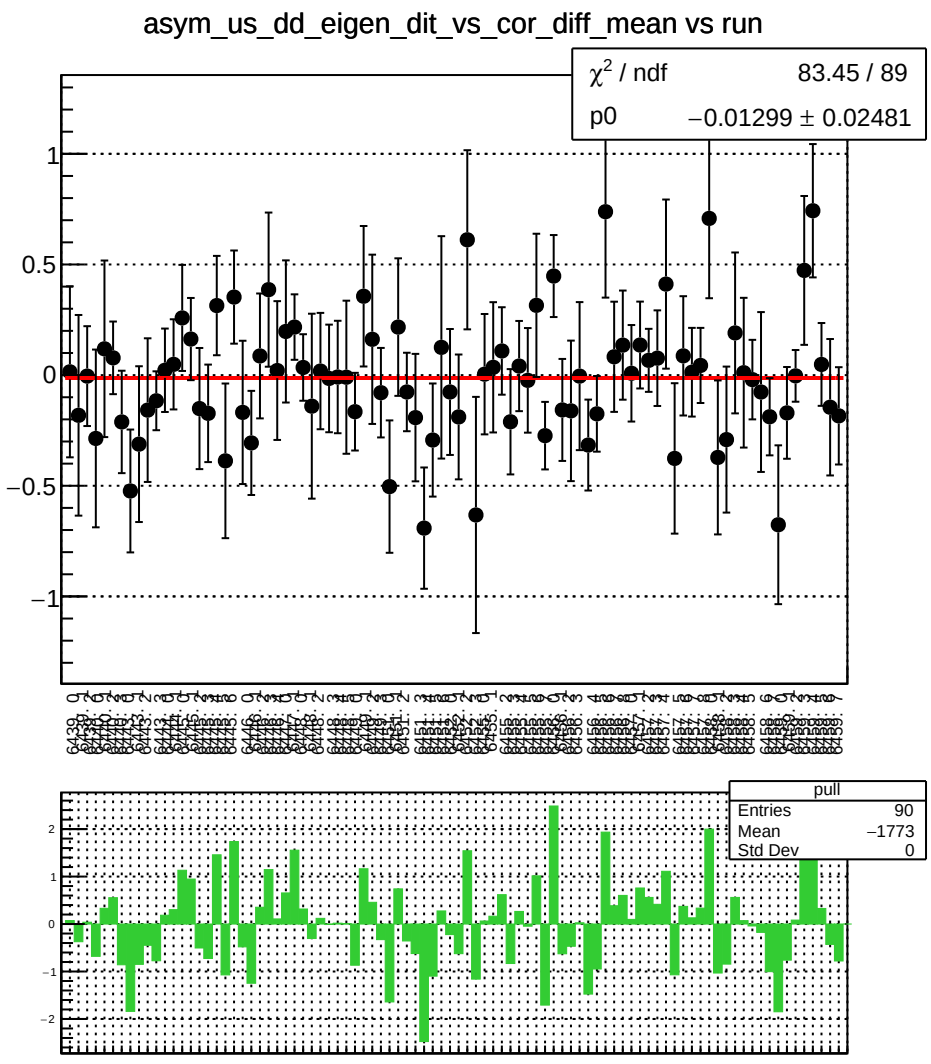

asym_us_dd_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 69.42 / 89
p0 −0.05063 ± 0.04318
pull
Entries 90
Mean 157.6
Std Dev 0
pull1D
Entries 90
Mean 0.026
Std Dev 0.8779

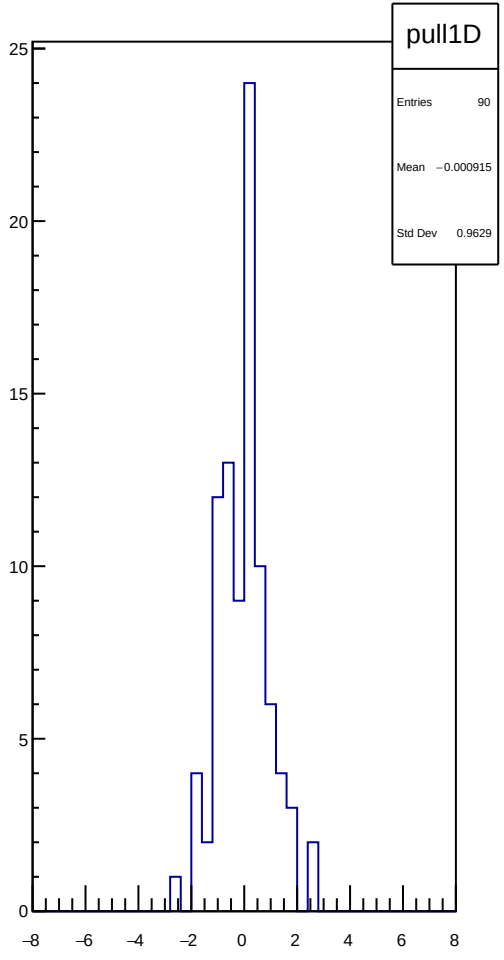

asym_us_dd_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 6.738e+04 / 89
p0 39.98 ± 0.03054
90
80
70
60
50
40
30

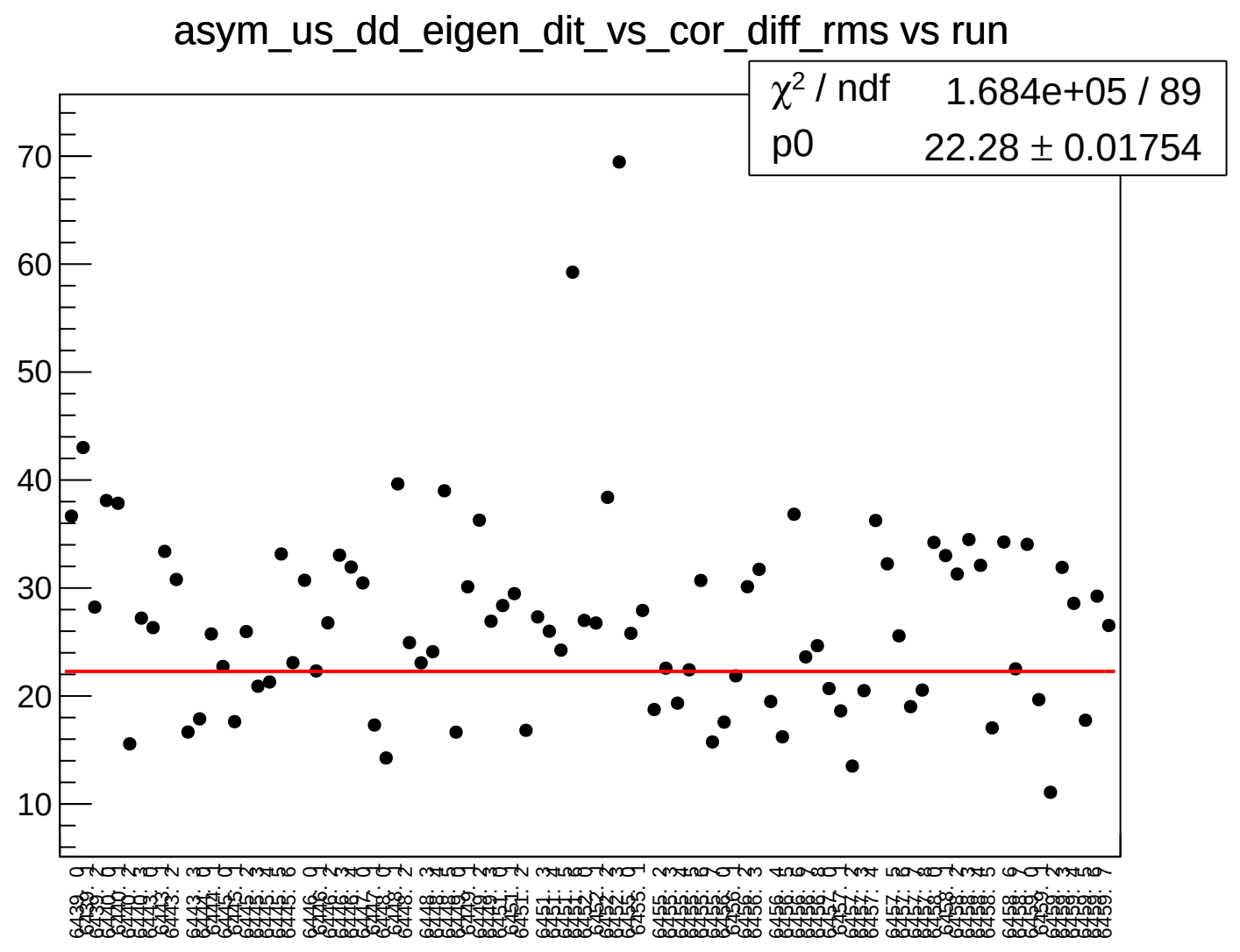

asym_us_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 77.64 / 89
p0 6.34e−06 ± 2.677e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 90
Mean −69.32
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

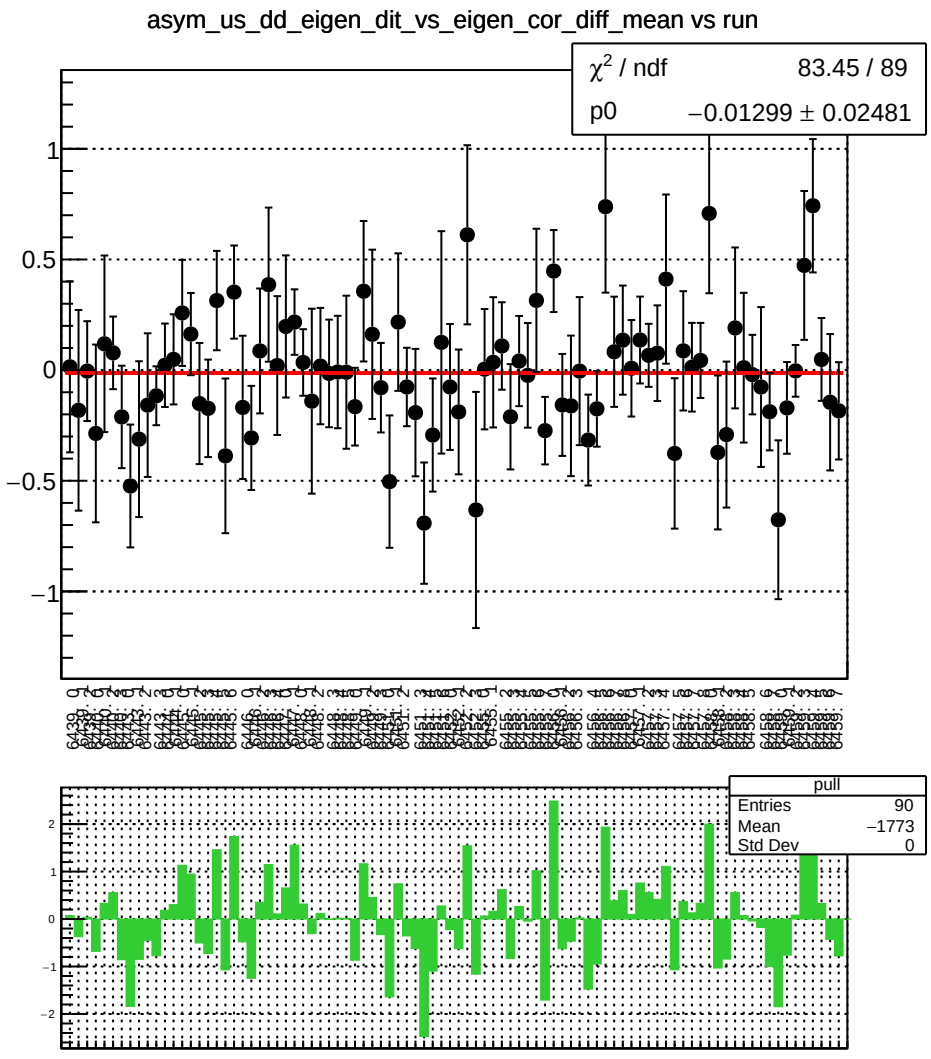

pull1D
Entries 90
Mean 0.01048
Std Dev 0.9287
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

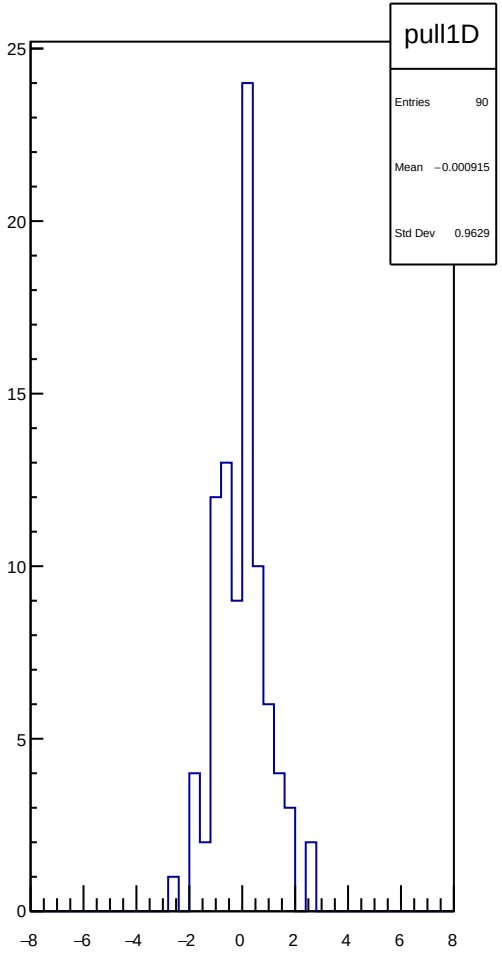

asym_us_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4931 / 89
p0 0.002523 ± 1.893e−06
0.003
0.0029
0.0028
0.0027
0.0026
0.0025
0.0024
0.0023

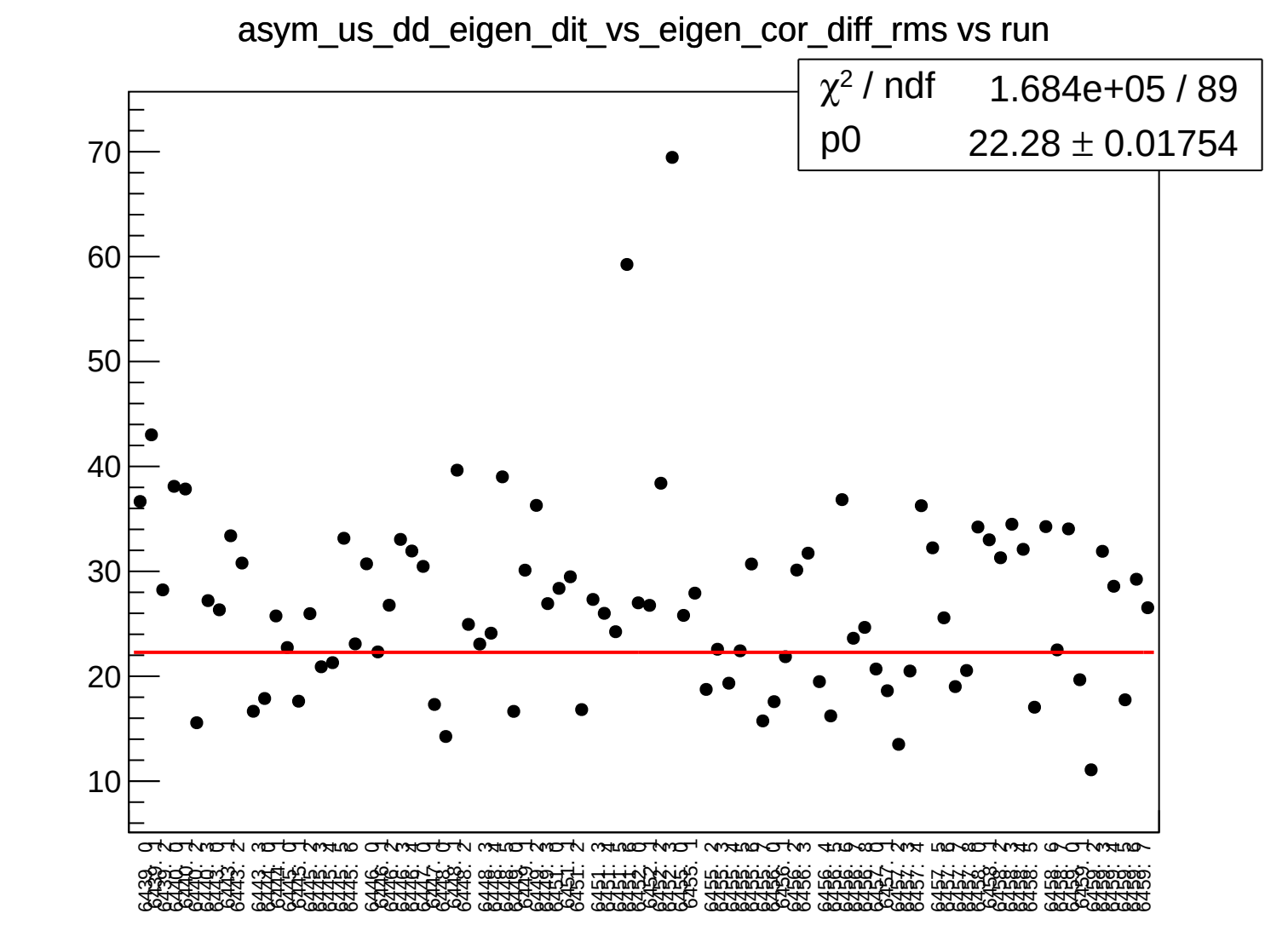

asym_us_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.45 / 89
p0 −0.01299 ± 0.02481
pull
Entries 90
Mean −1773
Std Dev 0

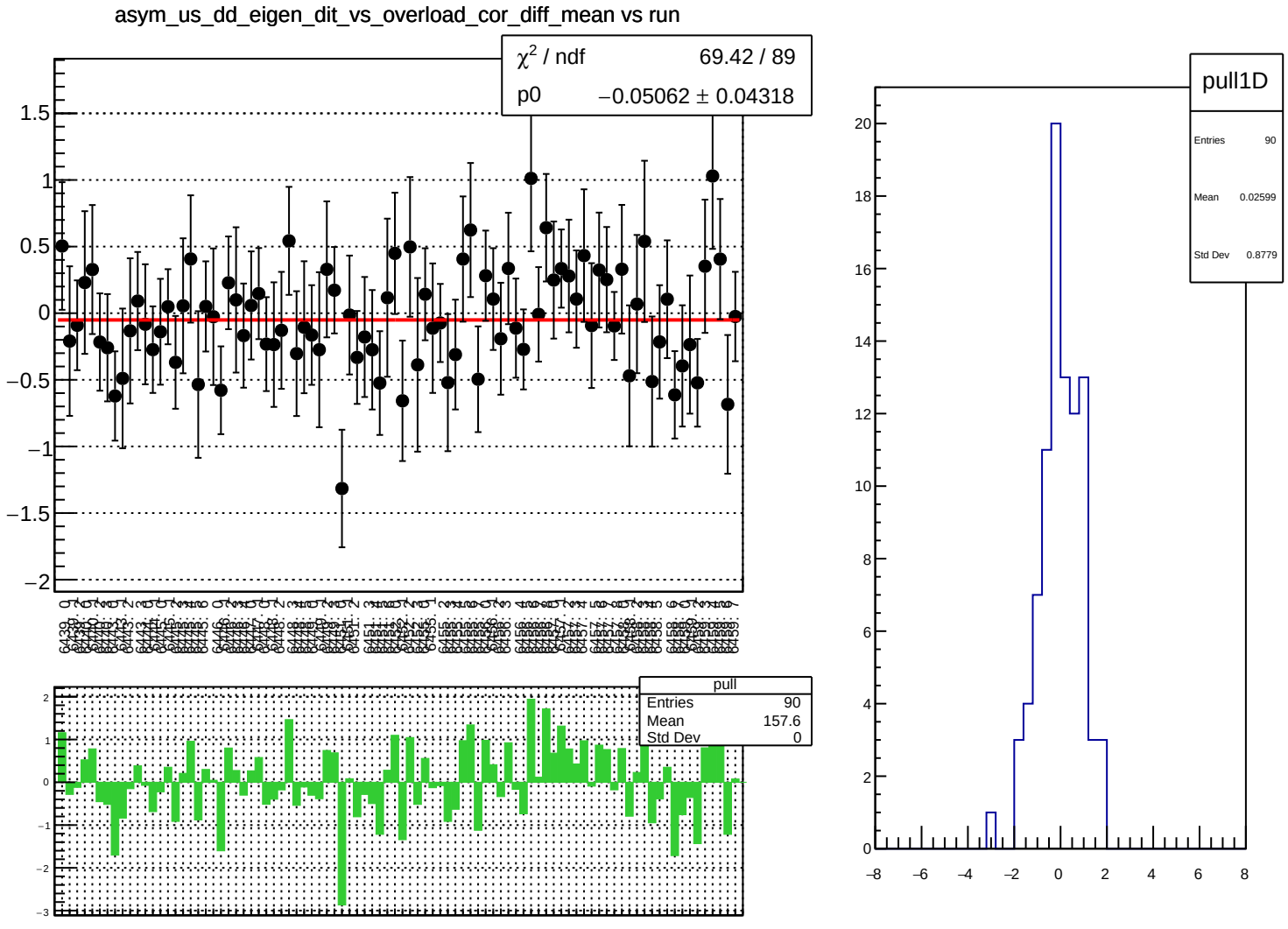

pull1D
Entries 90
Mean −0.000915
Std Dev 0.9629

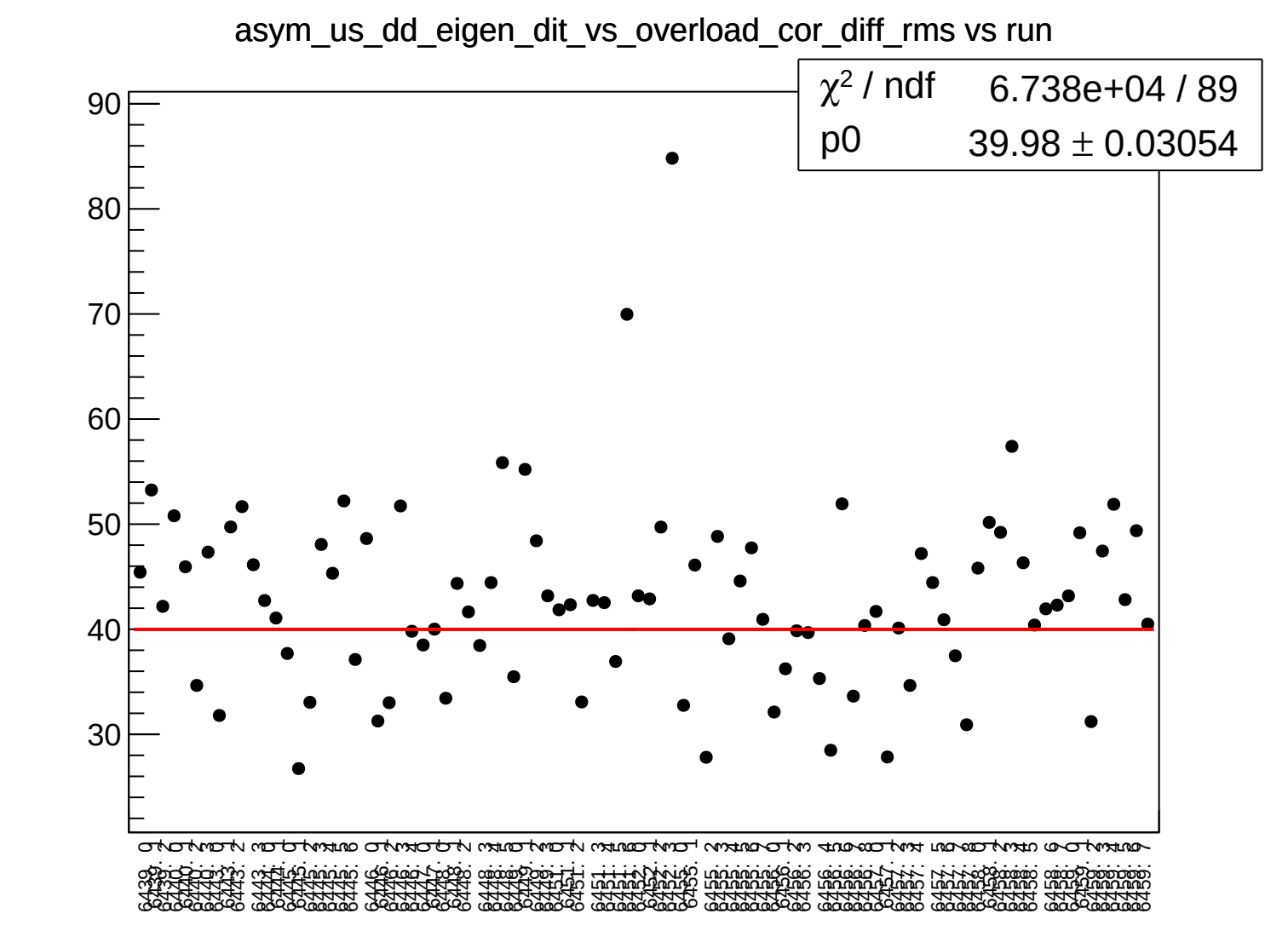

asym_us_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.684e+05 / 89
p0 22.28 ± 0.01754
70
60
50
40
30
20
10

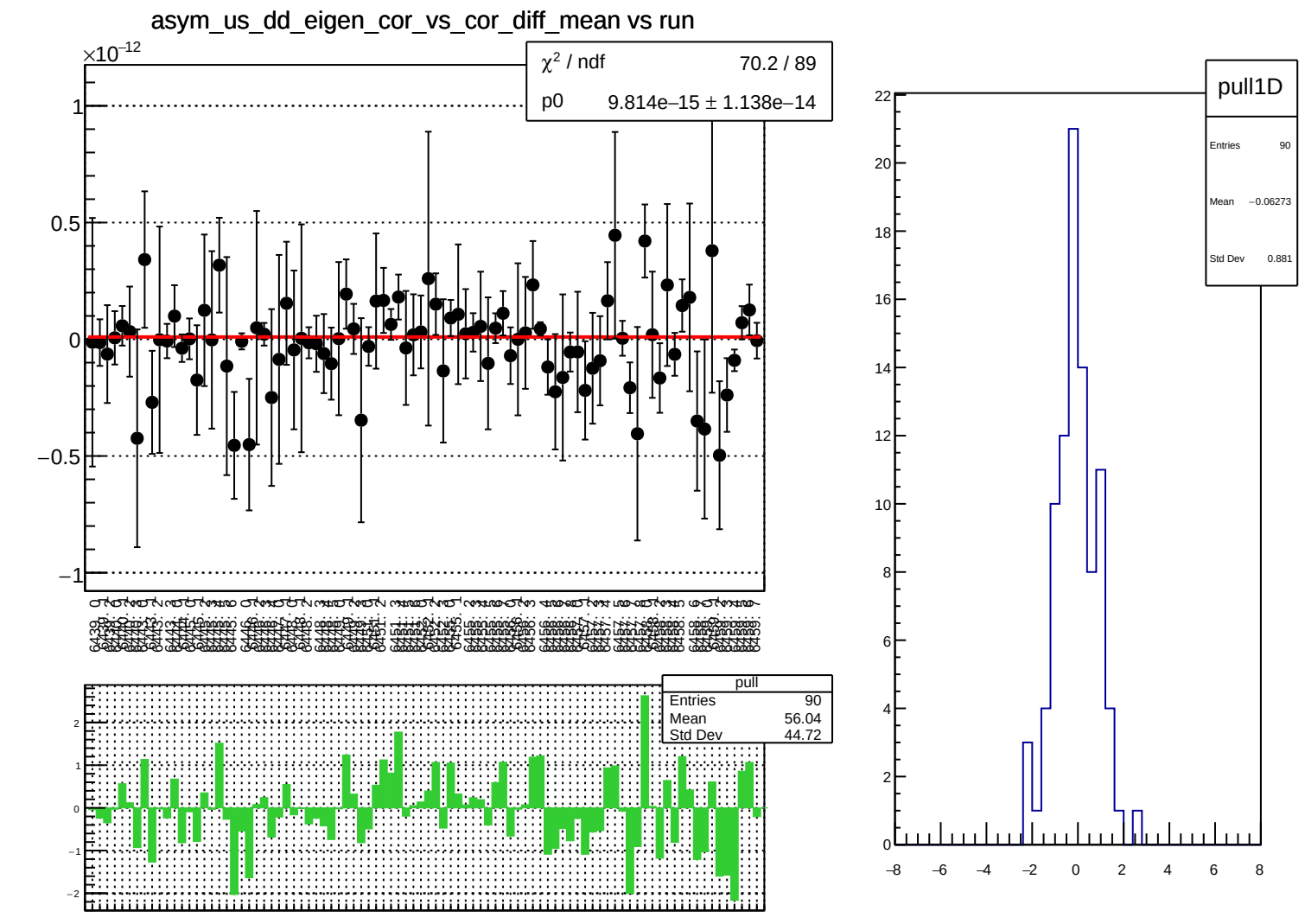

asym_us_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.45 / 89
p0 −0.01299 ± 0.02481
pull
Entries 90
Mean −1773
Std Dev 0

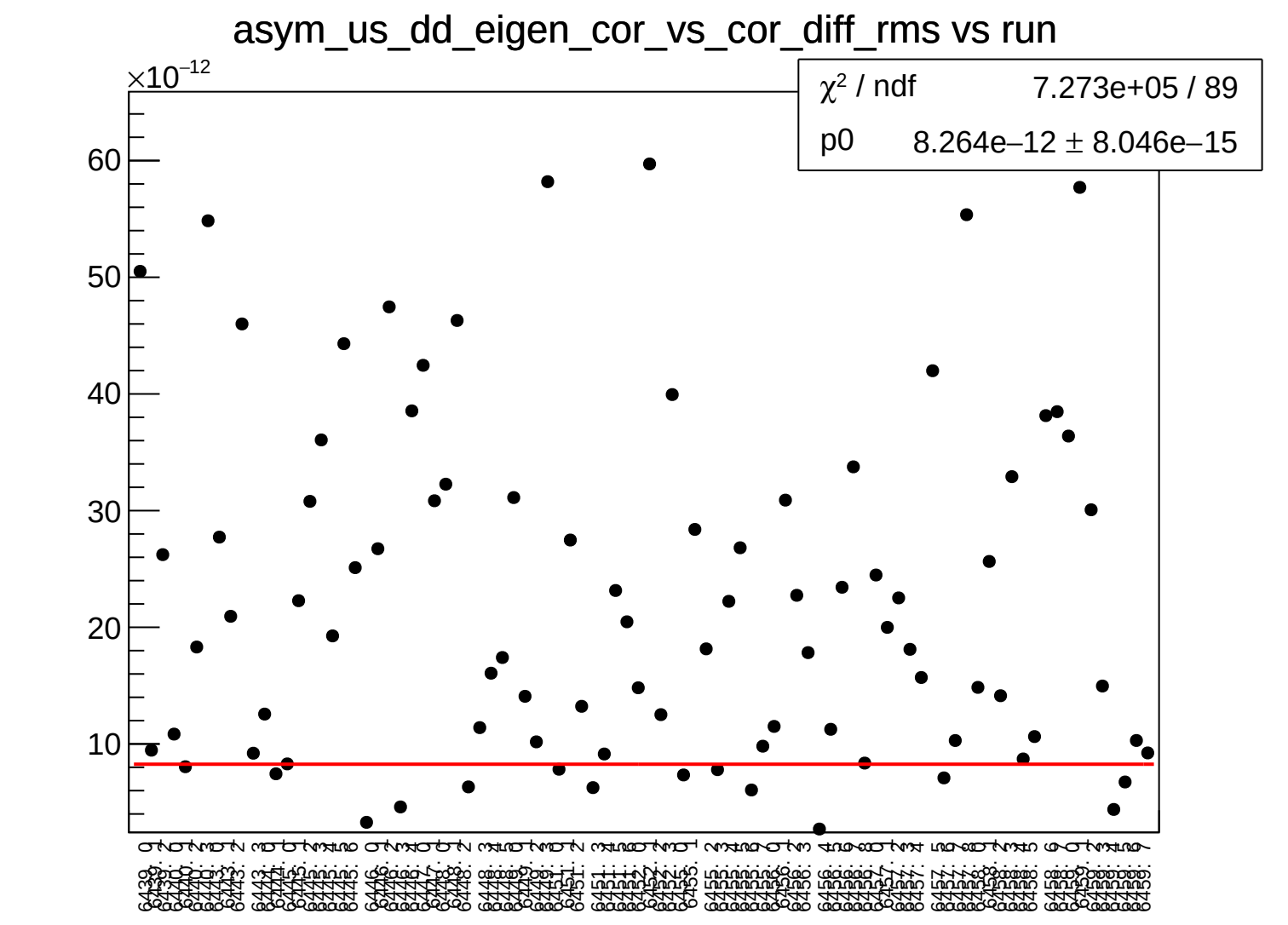

pull1D
Entries 90
Mean −0.000915
Std Dev 0.9629

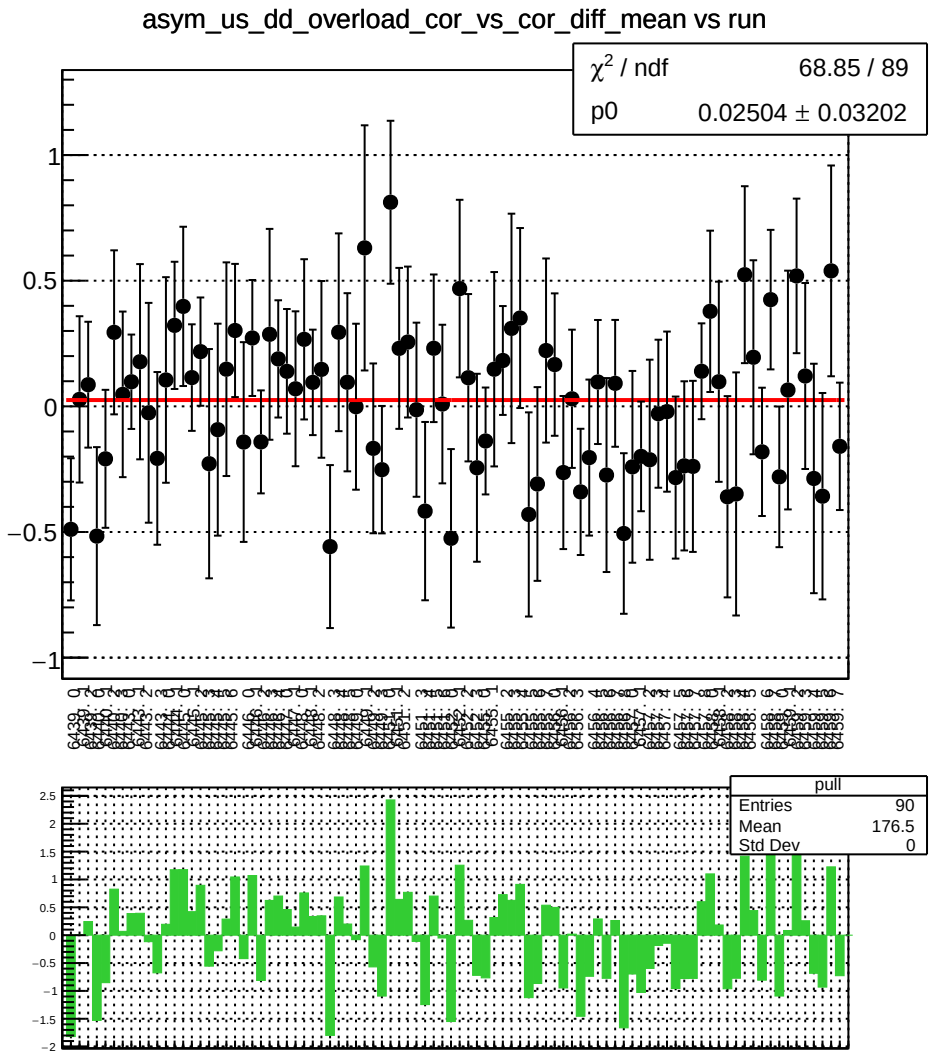

asym_us_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.684e+05 / 89
p0 22.28 ± 0.01754
70
60
50
40
30
20
10

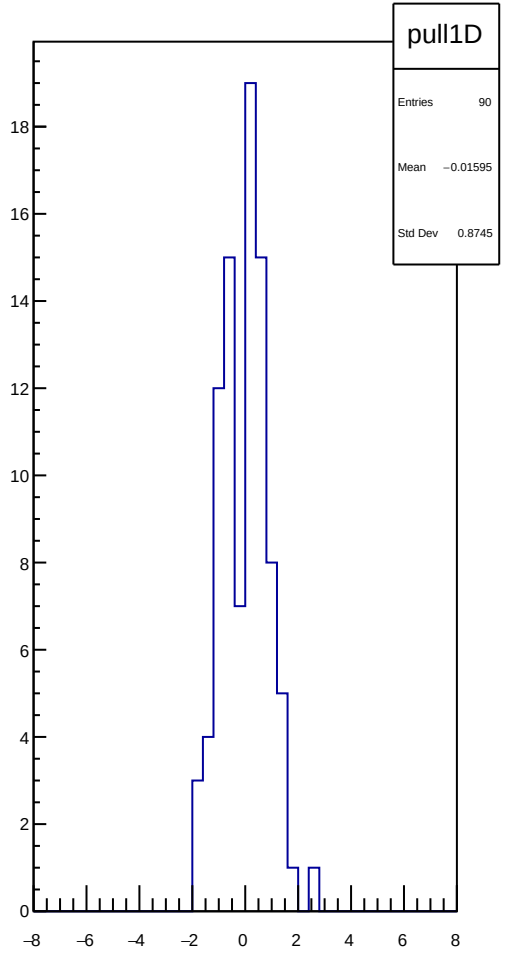

asym_us_dd_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 69.42 / 89
p0 −0.05062 ± 0.04318
pull
Entries 90
Mean 157.6
Std Dev 0
pull1D
Entries 90
Mean 0.02599
Std Dev 0.8779

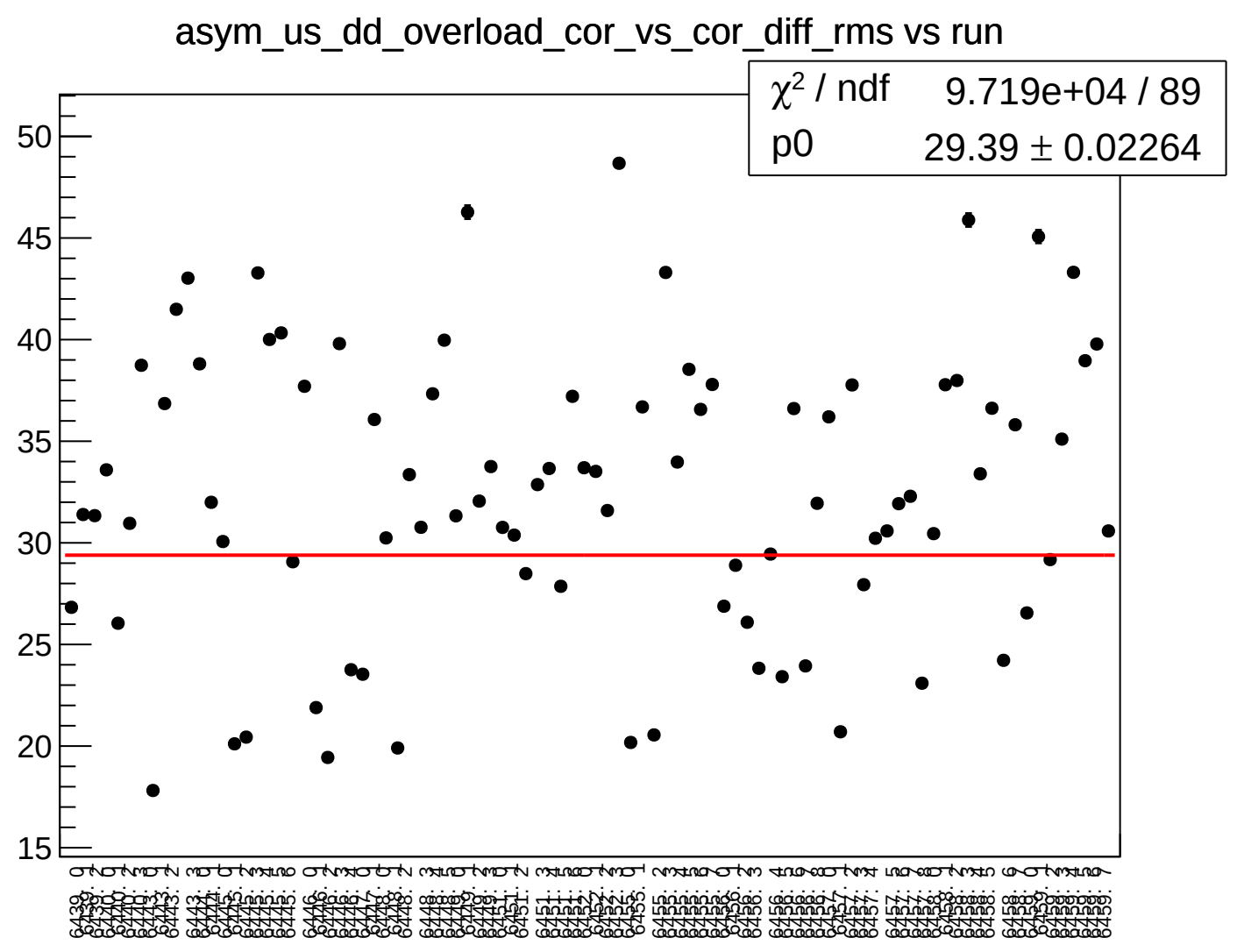

asym_us_dd_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 6.738e+04 / 89
p0 39.98 ± 0.03054
90
80
70
60
50
40
30

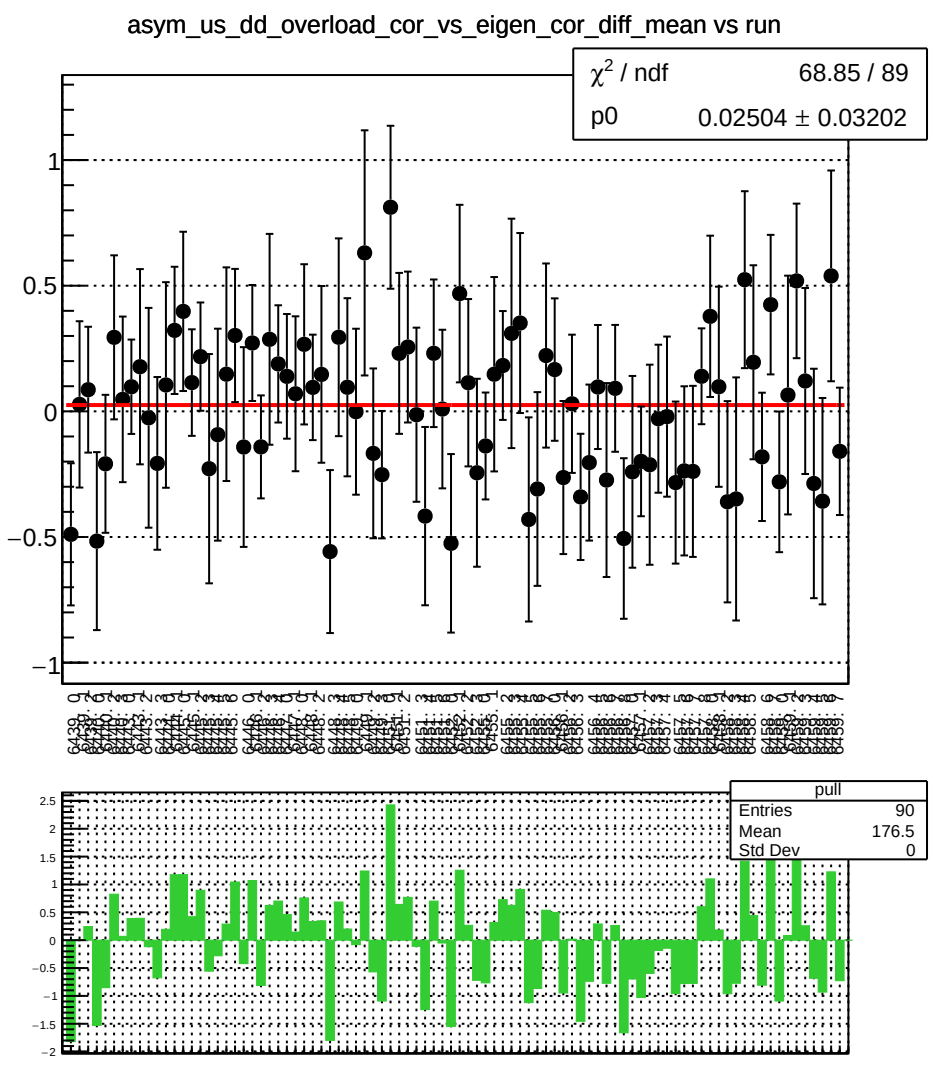

asym_us_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 70.2 / 89
p0 9.814e−15 ± 1.138e−14
pull
Entries 90
Mean 56.04
Std Dev 44.72
pull1D
Entries 90
Mean −0.06273
Std Dev 0.881

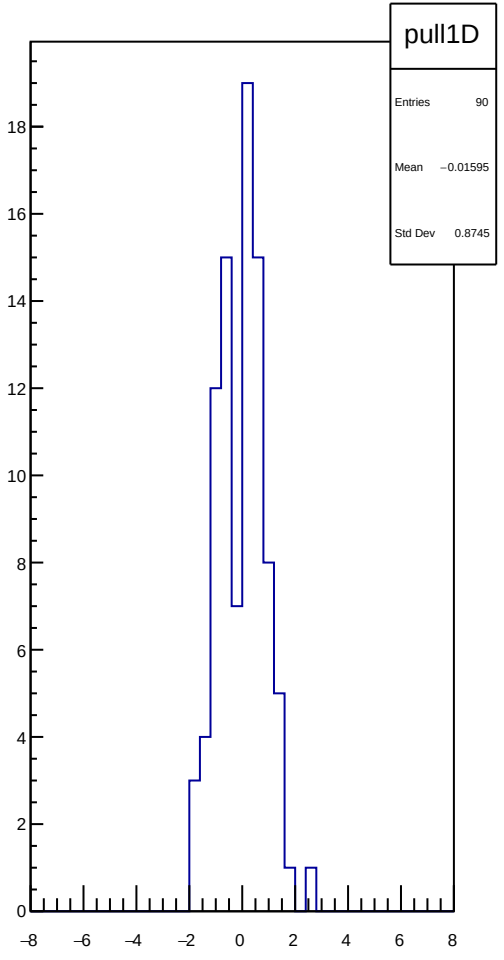

asym_us_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.273e+05 / 89
p0 8.264e−12 ± 8.046e−15
60
50
40
30
20
10

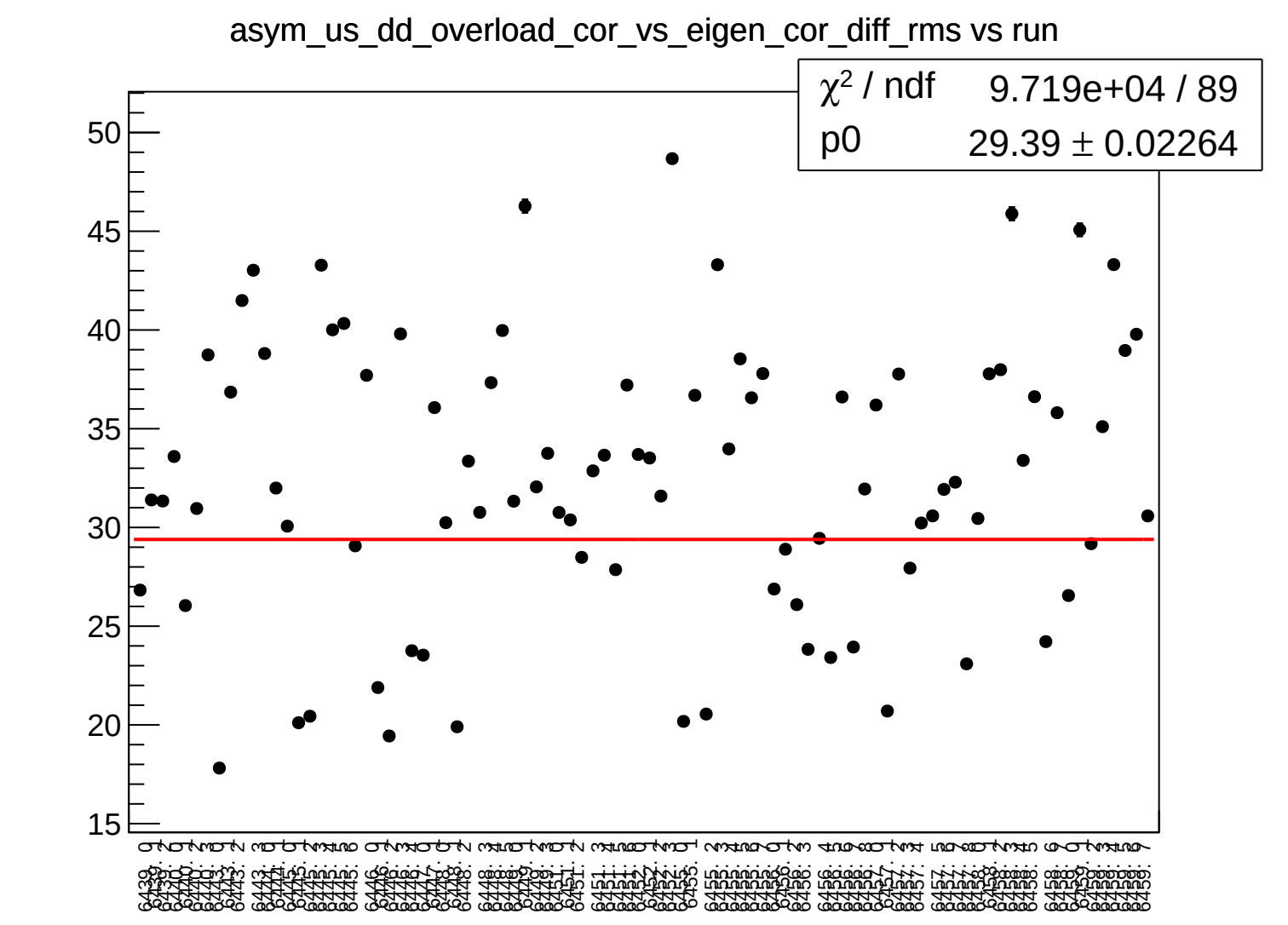

asym_us_dd_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 68.85 / 89
p0 0.02504 ± 0.03202
pull
Entries 90
Mean 176.5
Std Dev 0

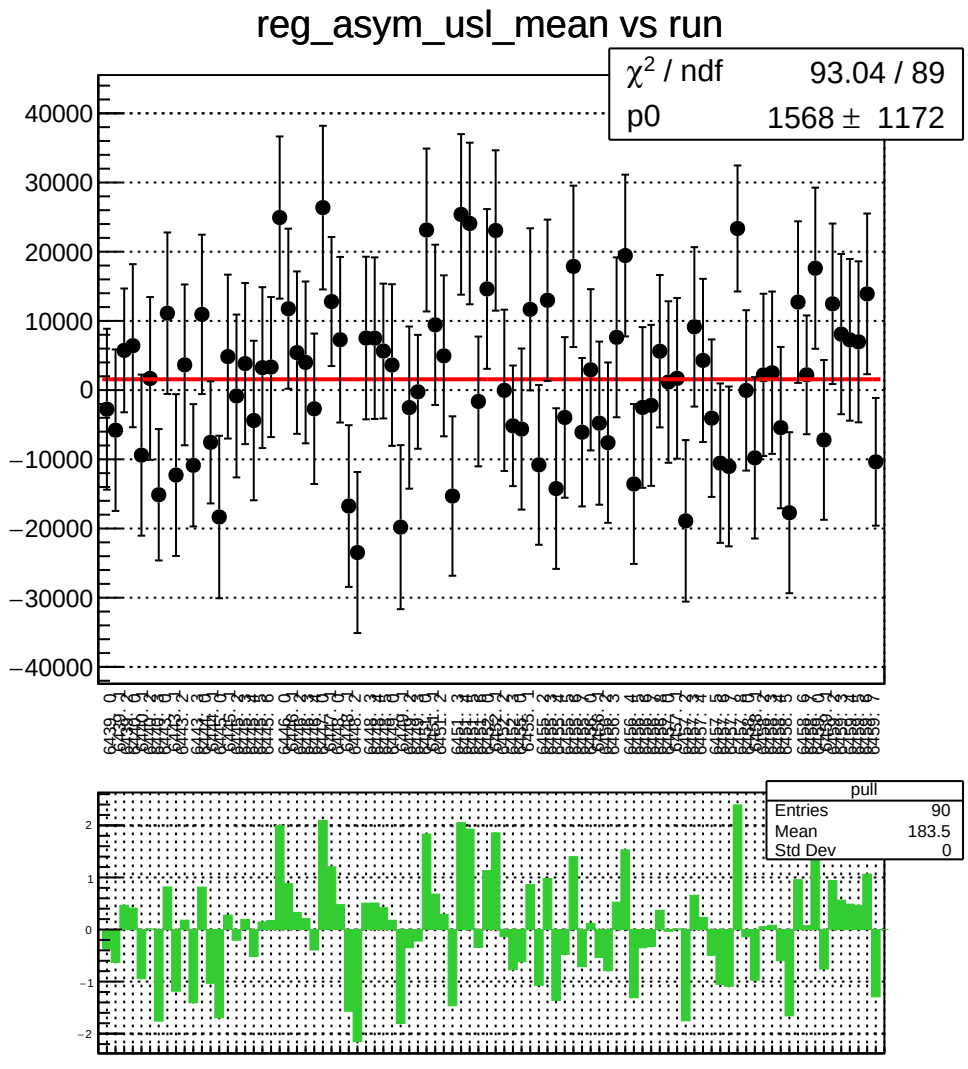

pull1D
Entries 90
Mean −0.01595
Std Dev 0.8745

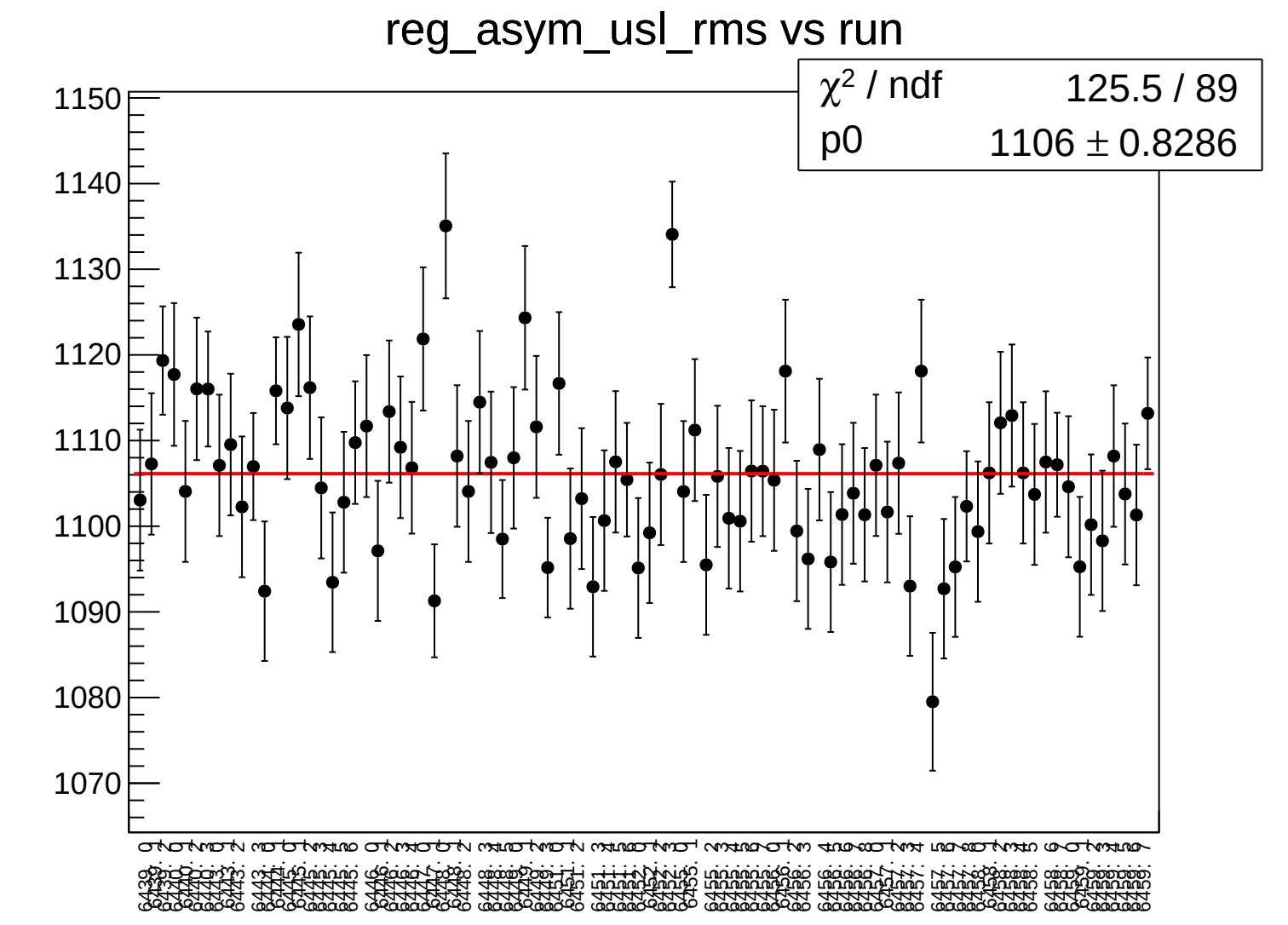

asym_us_dd_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 9.719e+04 / 89
p0 29.39 ± 0.02264
50
45
40
35
30
25
20
15

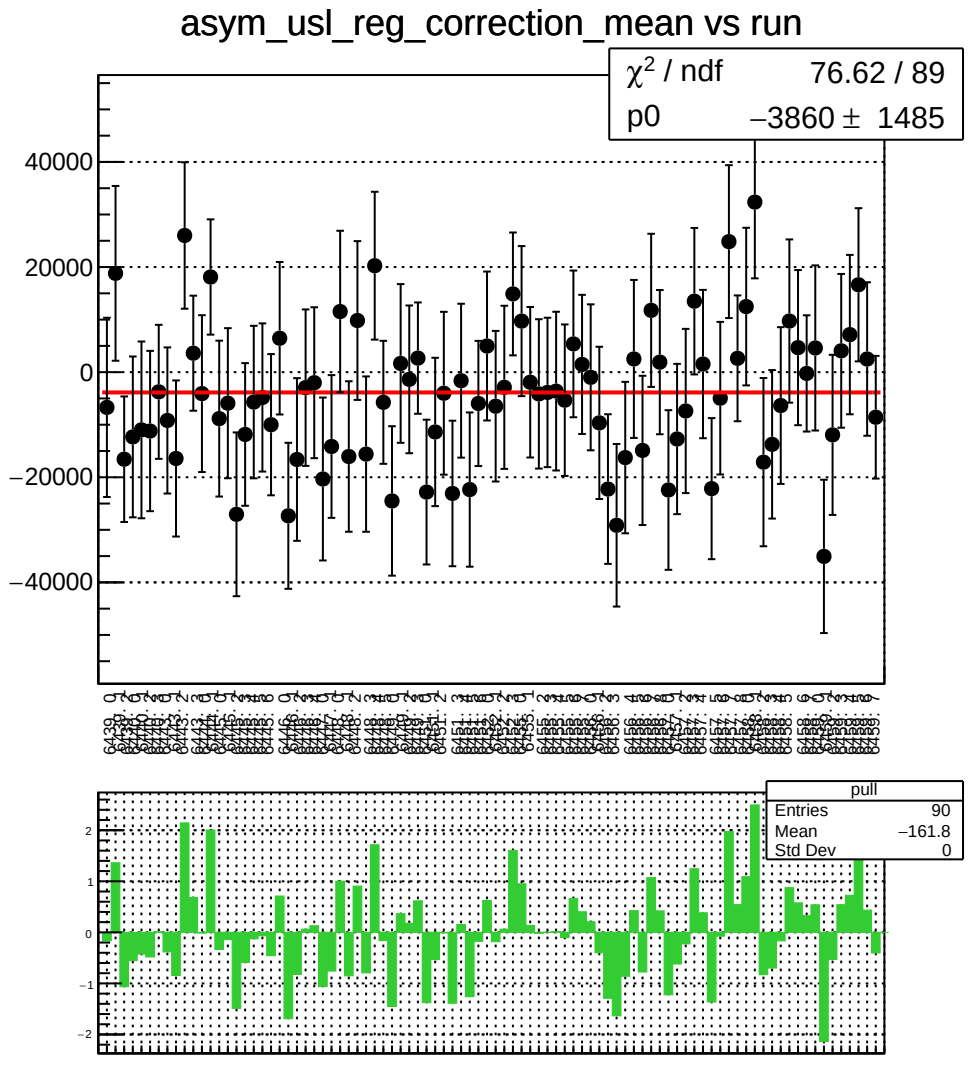

asym_us_dd_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.85 / 89
p0 0.02504 ± 0.03202
pull
Entries 90
Mean 176.5
Std Dev 0

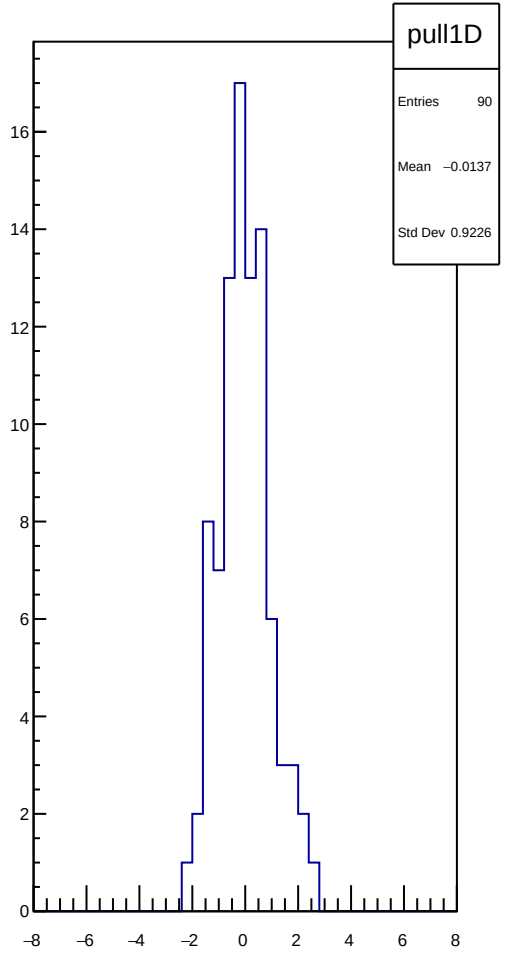

pull1D
Entries 90
Mean −0.01595
Std Dev 0.8745

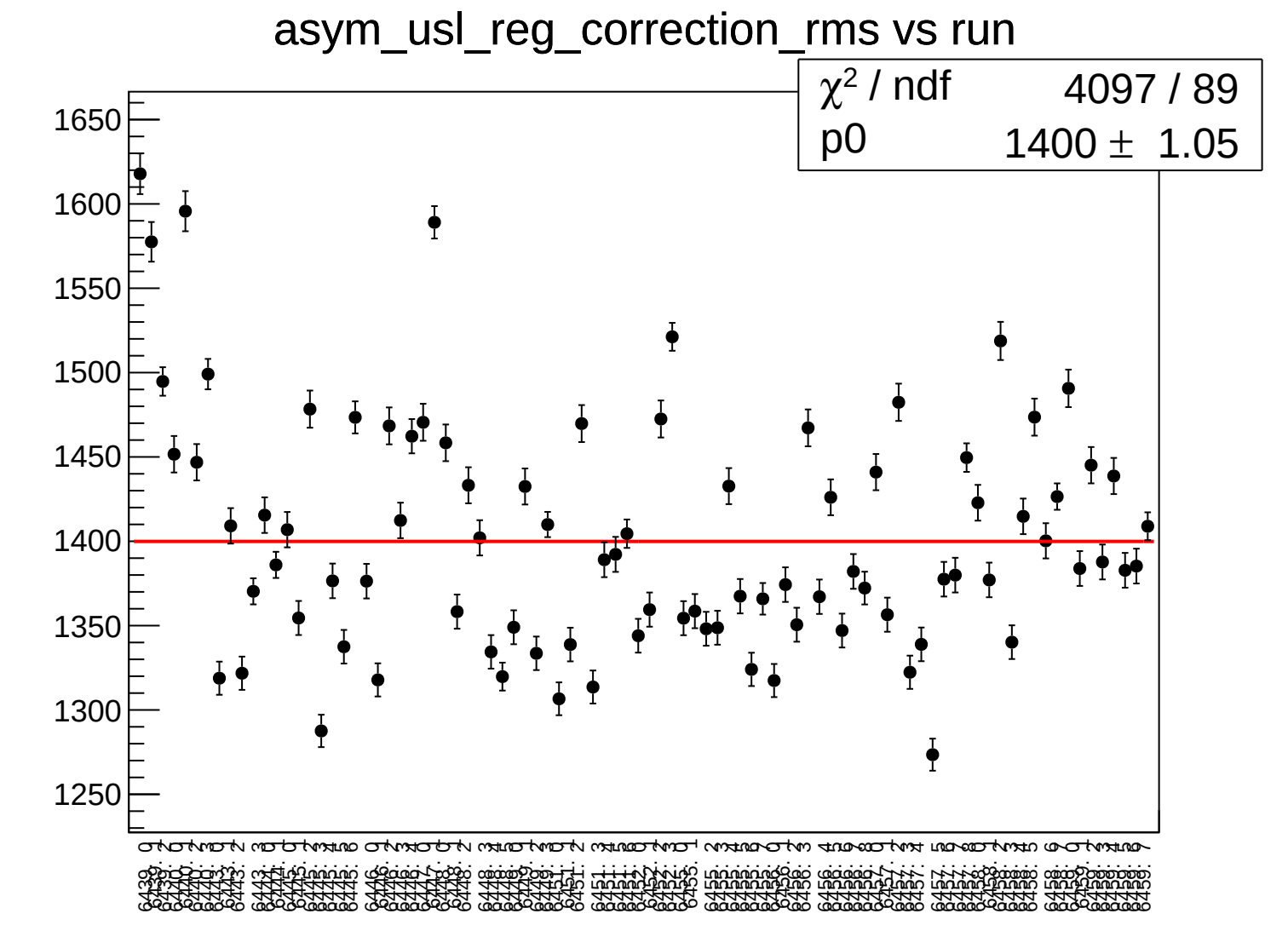

asym_us_dd_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.719e+04 / 89
p0 29.39 ± 0.02264
50
45
40
35
30
25
20
15

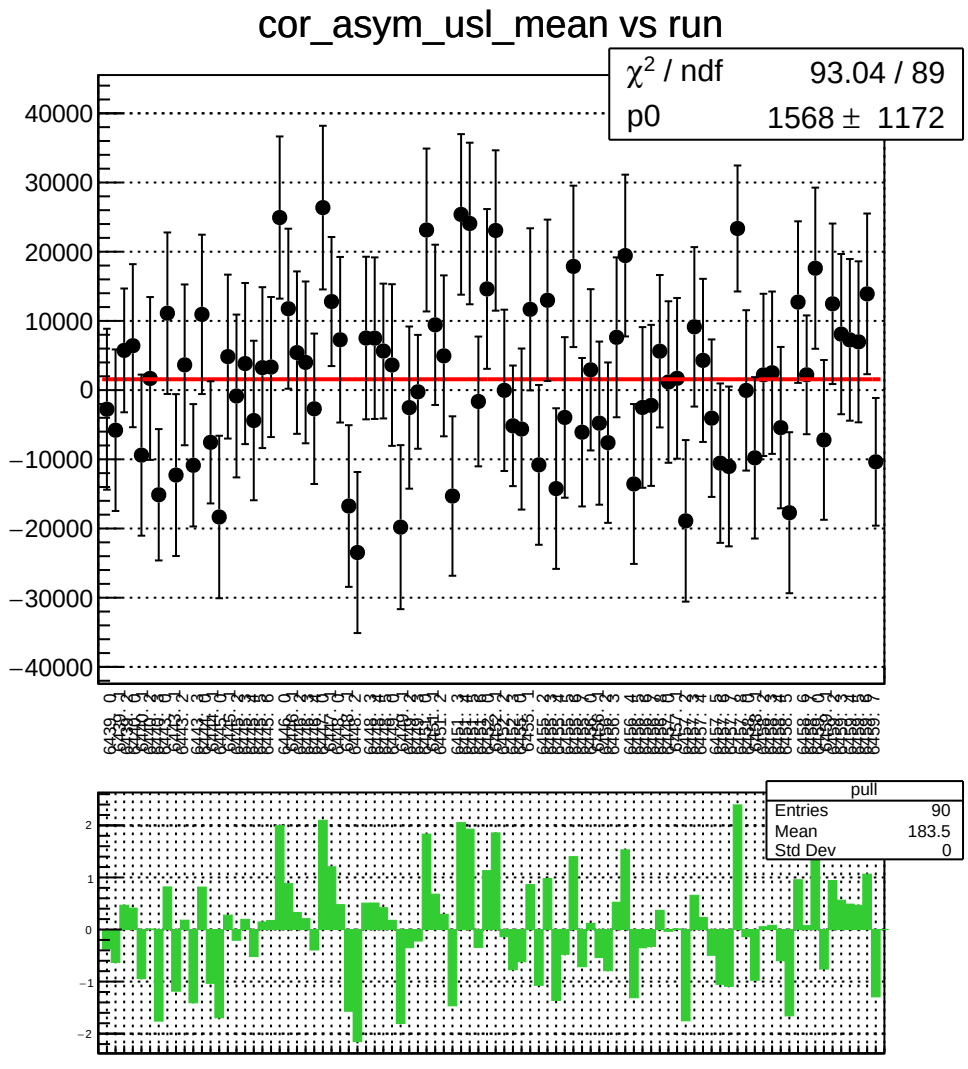

reg_asym_usl_mean vs run
χ² / ndf 93.04 / 89
p0 1568 ± 1172
pull
Entries 90
Mean 183.5
Std Dev 0
pull1D
Entries 90
Mean 0.009455
Std Dev 1.017

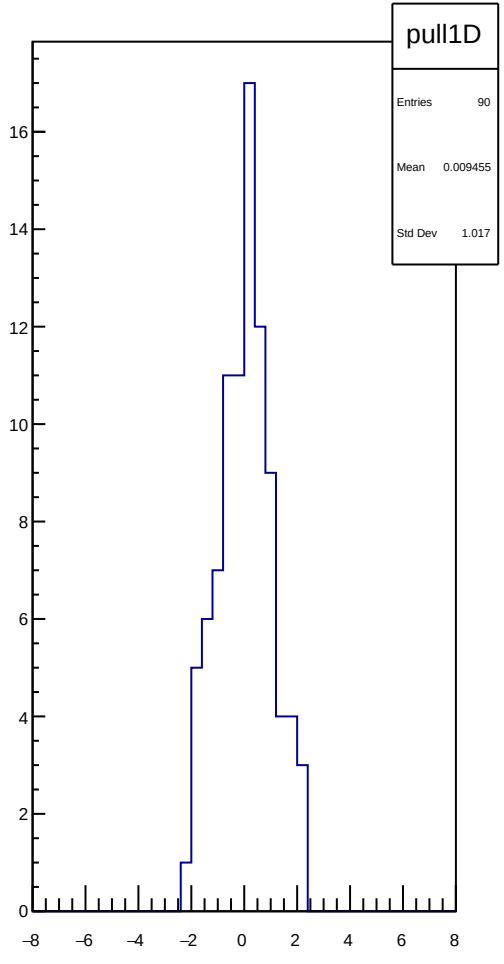

reg_asym_usl_rms vs run
χ² / ndf 125.5 / 89
p0 1106 ± 0.8286
1150
1140
1130
1120
1110
1100
1090
1080
1070

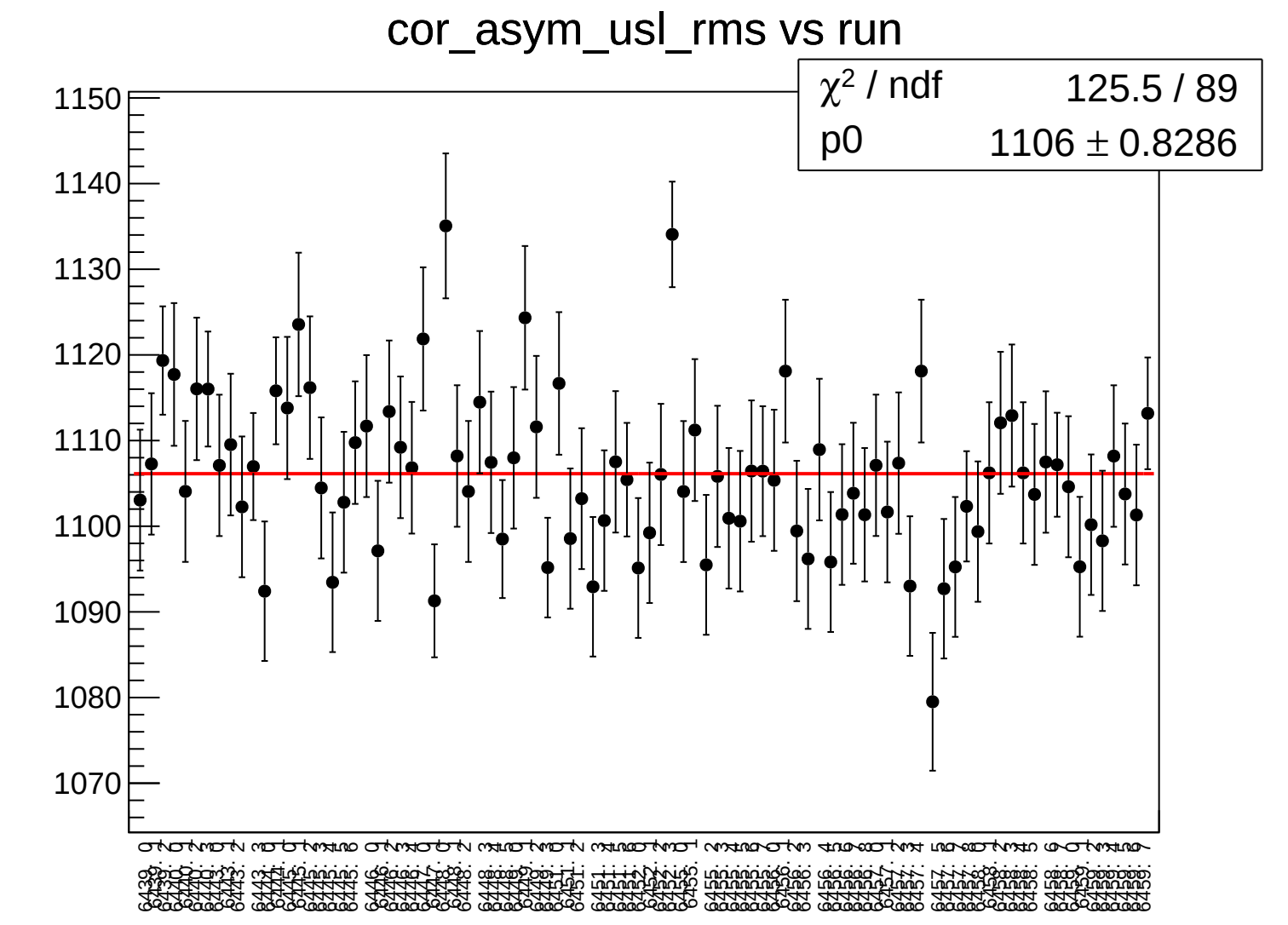

asym_usl_reg_correction_mean vs run
χ² / ndf 76.62 / 89
p0 −3860 ± 1485
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −161.8
Std Dev 0
2
1
0
−1
−2

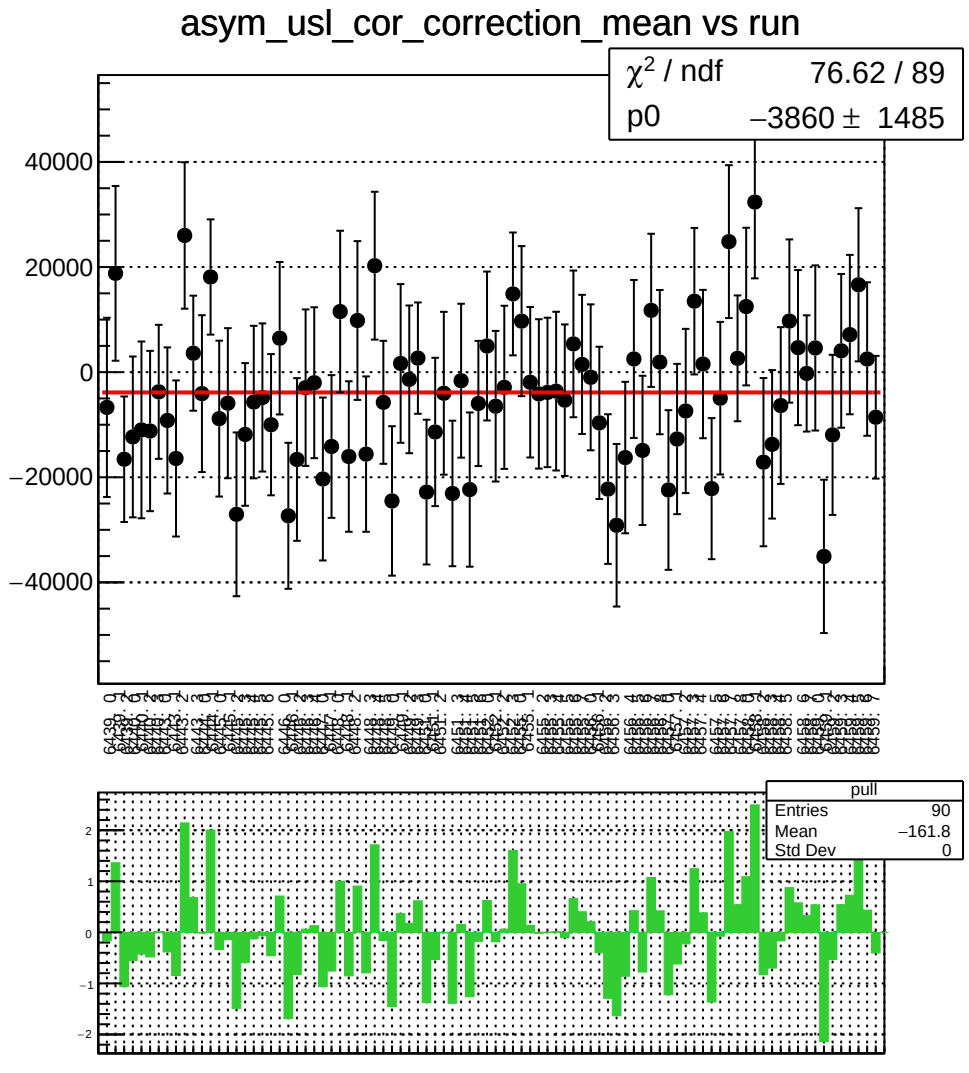

pull1D
Entries 90
Mean −0.0137
Std Dev 0.9226
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

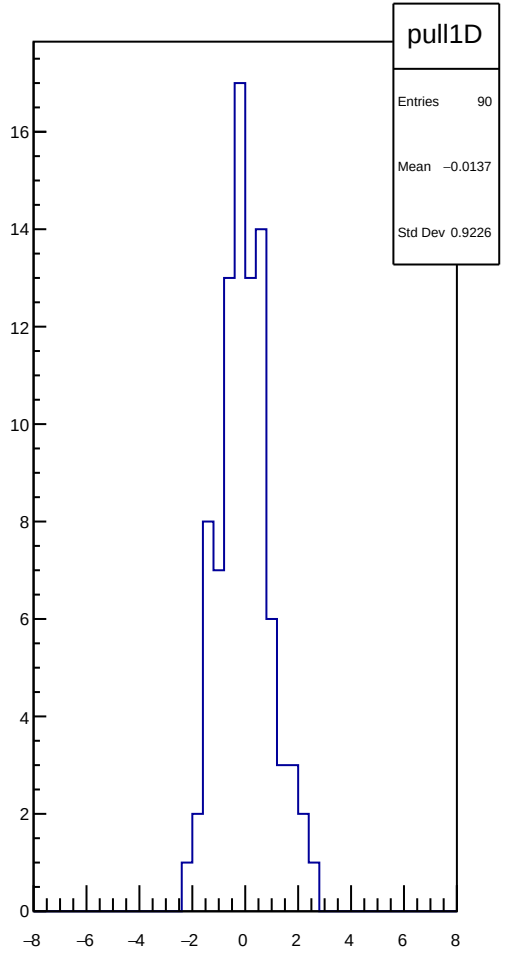

asym_usl_reg_correction_rms vs run
χ² / ndf 4097 / 89
p0 1400 ± 1.05
1650
1600
1550
1500
1450
1400
1350
1300
1250

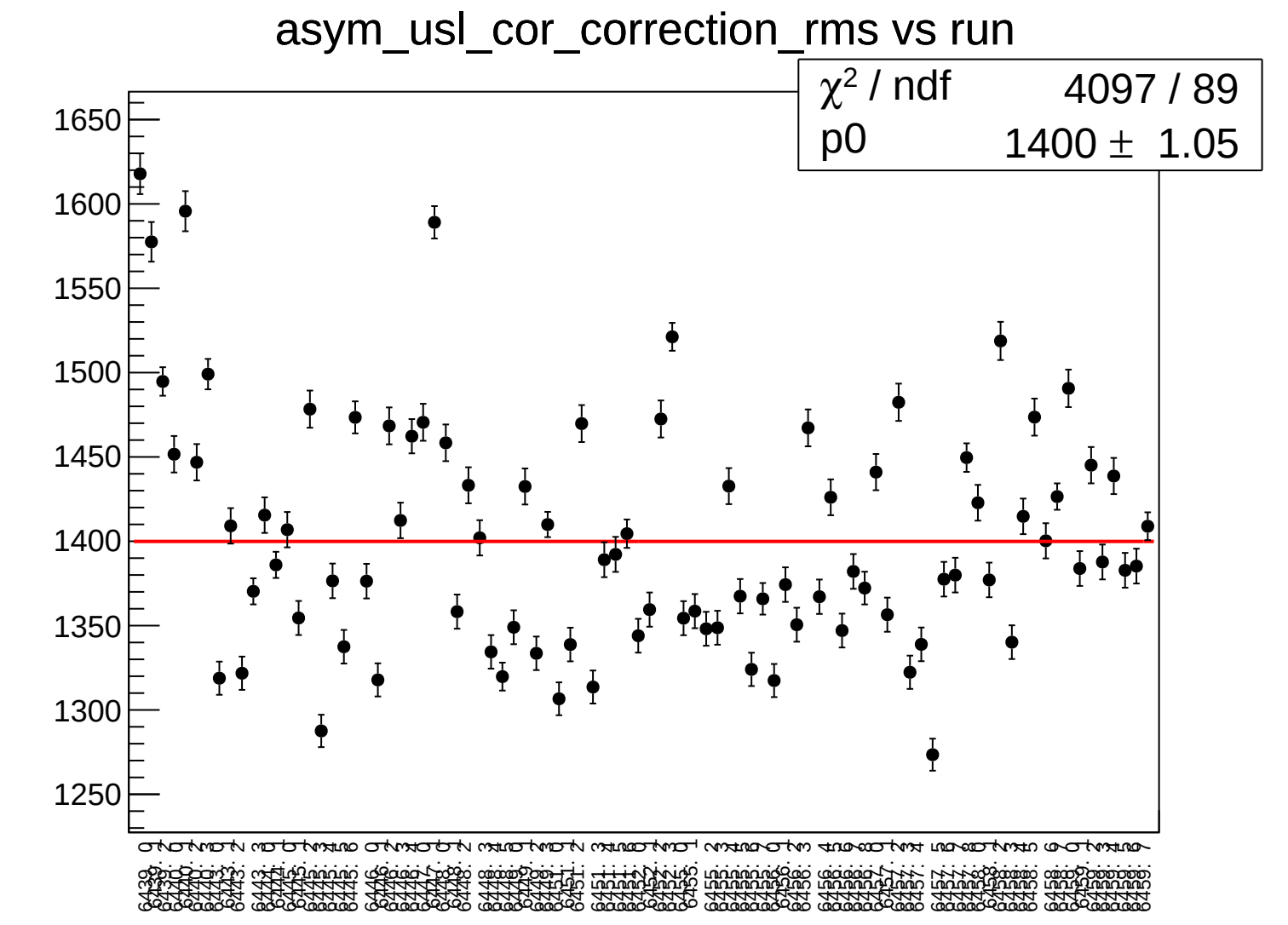

cor_asym_usl_mean vs run
χ^2 / ndf 93.04 / 89
p0 1568 ± 1172
pull
Entries 90
Mean 183.5
Std Dev 0

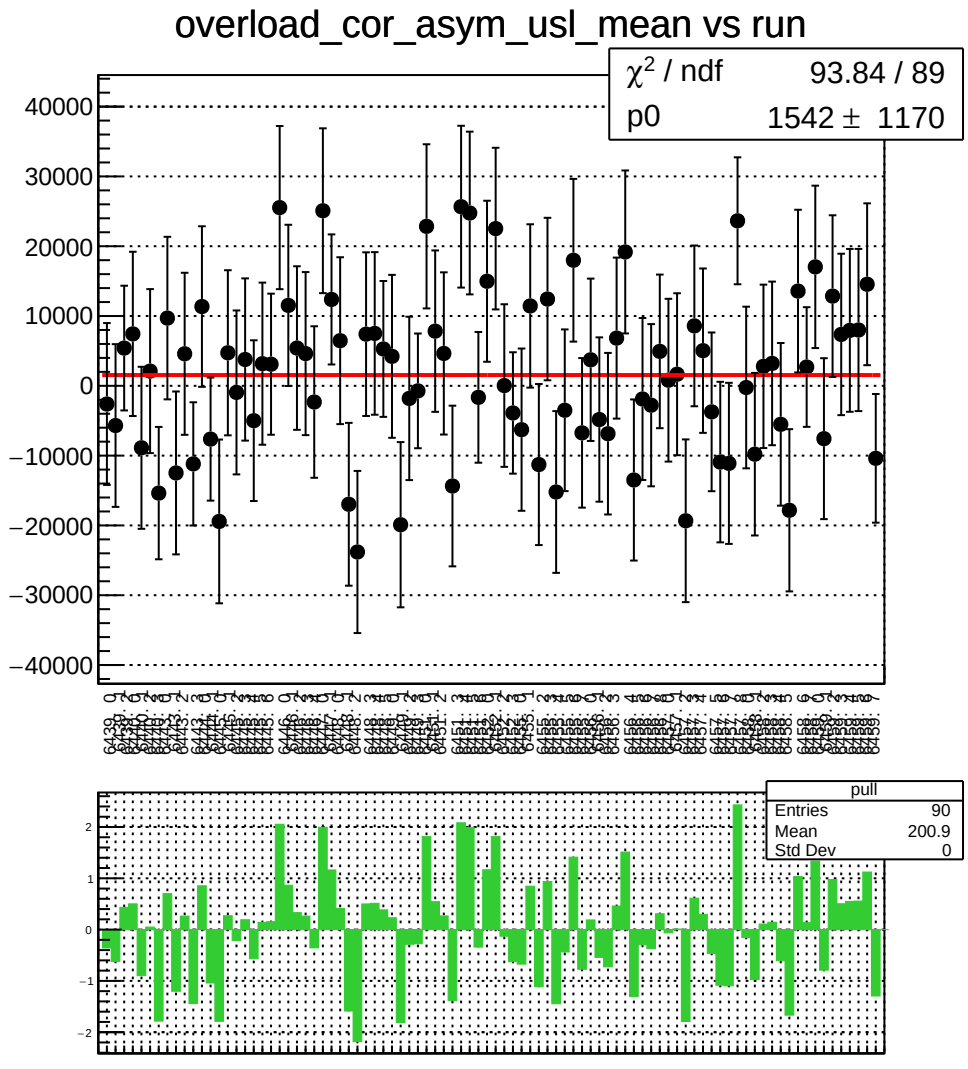

pull1D
Entries 90
Mean 0.009455
Std Dev 1.017

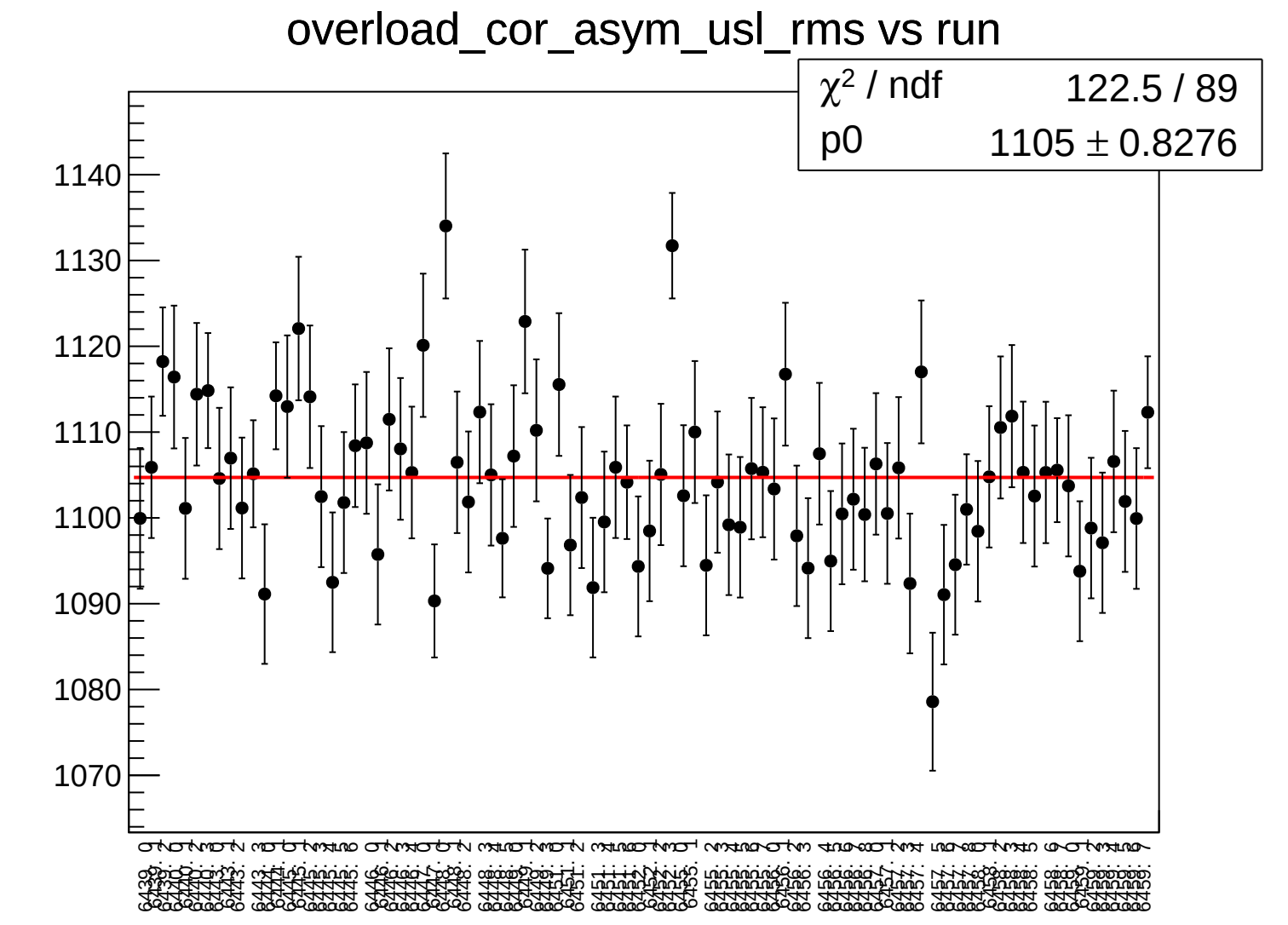

cor_asym_usl_rms vs run
χ² / ndf 125.5 / 89
p0 1106 ± 0.8286
1150
1140
1130
1120
1110
1100
1090
1080
1070

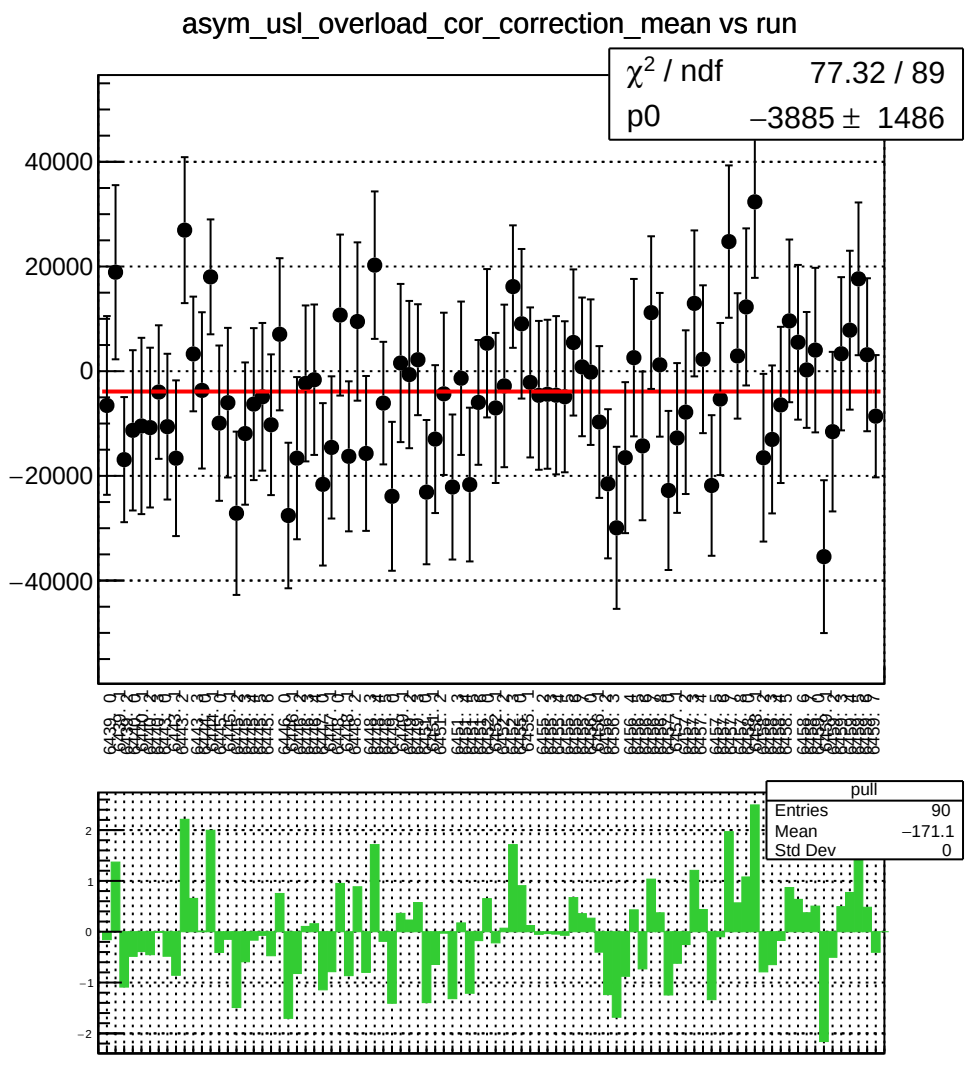

asym_usl_cor_correction_mean vs run
χ² / ndf 76.62 / 89
p0 −3860 ± 1485
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −161.8
Std Dev 0
2
1
0
−1
−2

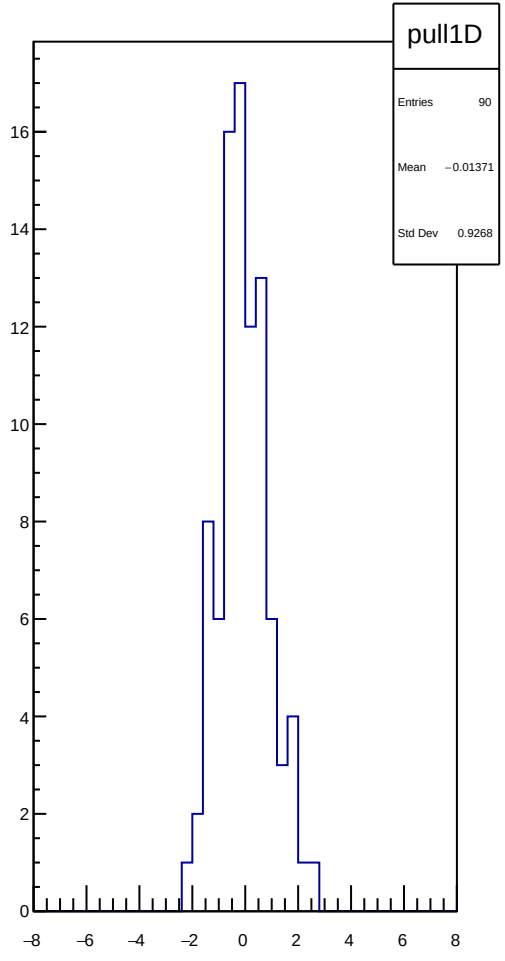

pull1D
Entries 90
Mean −0.0137
Std Dev 0.9226
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

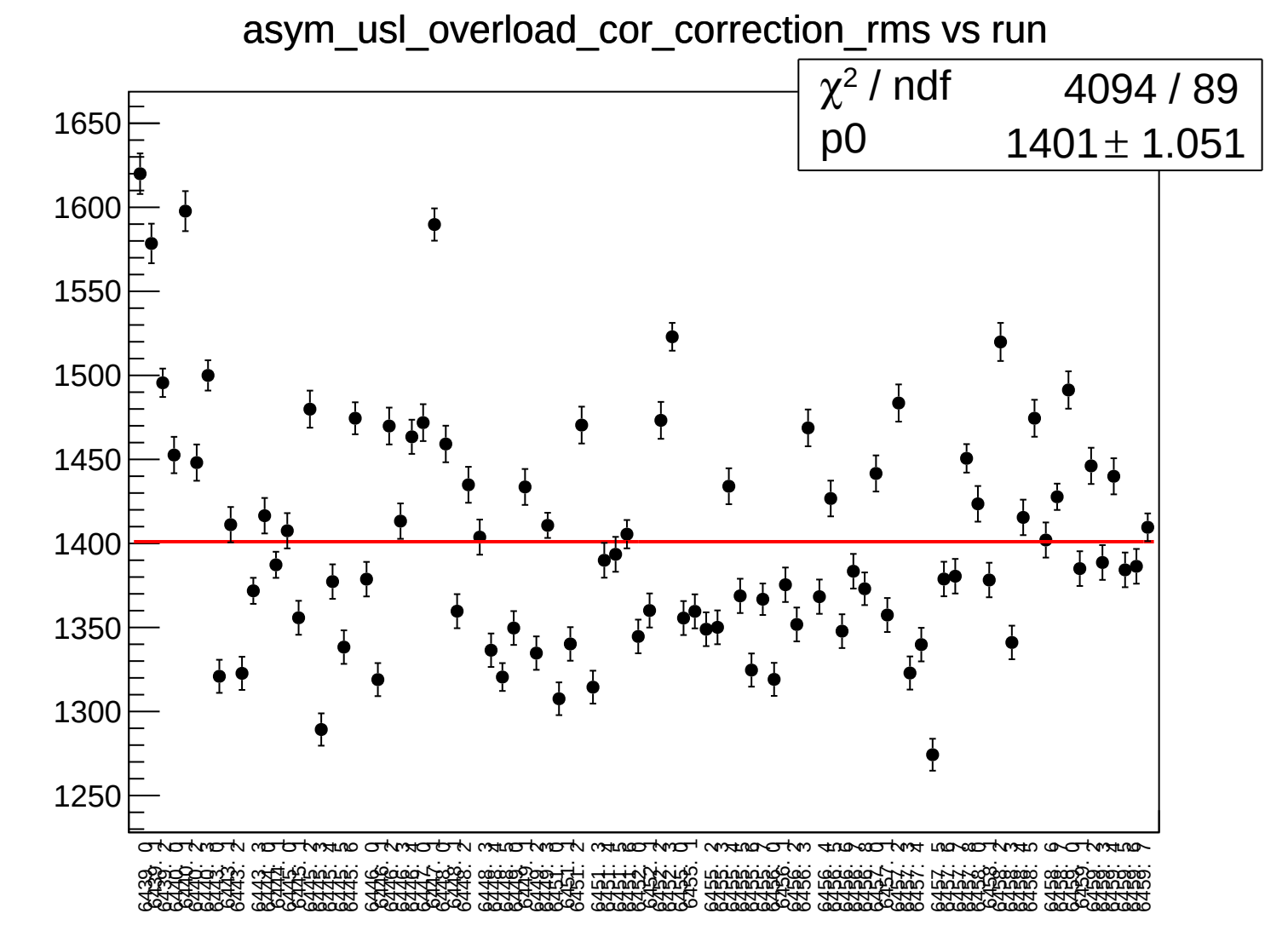

asym_usl_cor_correction_rms vs run
χ² / ndf 4097 / 89
p0 1400 ± 1.05
1650
1600
1550
1500
1450
1400
1350
1300
1250

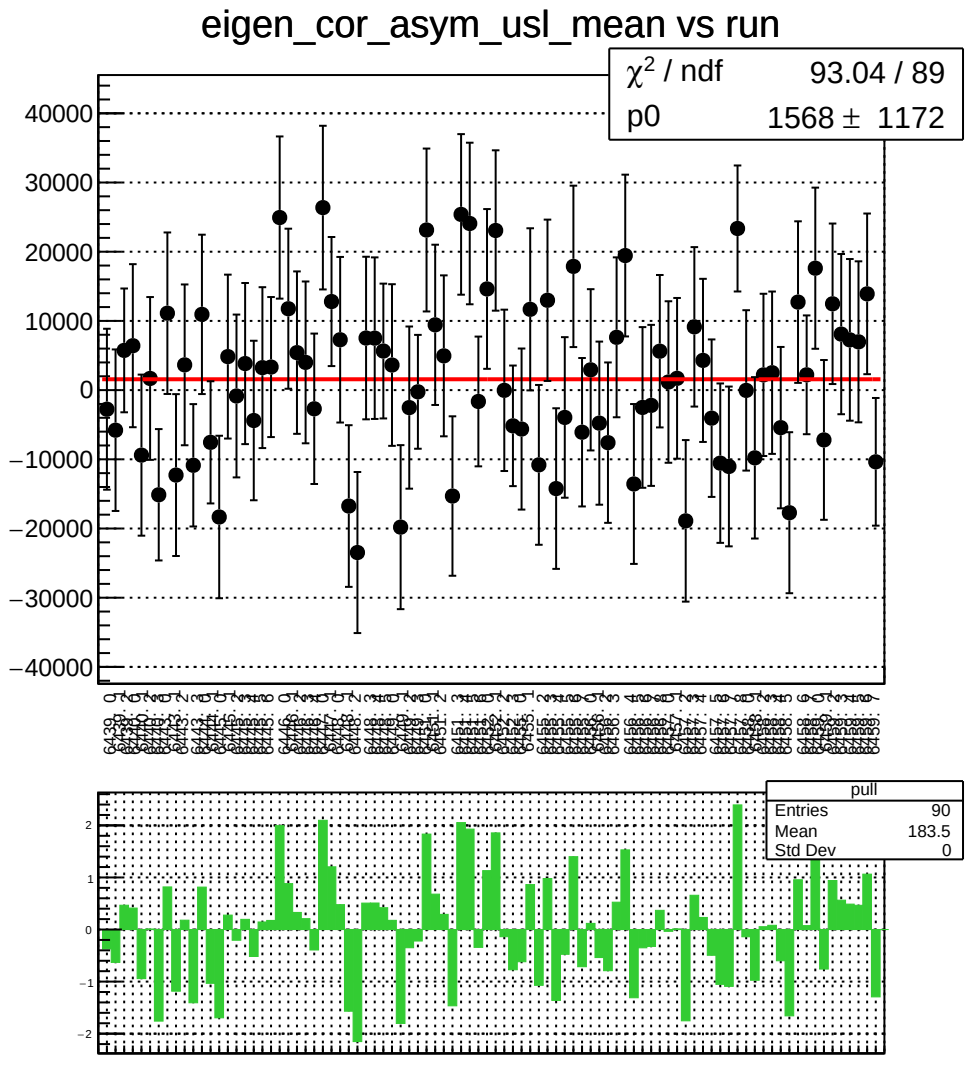

overload_cor_asym_usl_mean vs run
χ² / ndf 93.84 / 89
p0 1542 ± 1170
pull
Entries 90
Mean 200.9
Std Dev 0
pull1D
Entries 90
Mean 0.009445
Std Dev 1.021

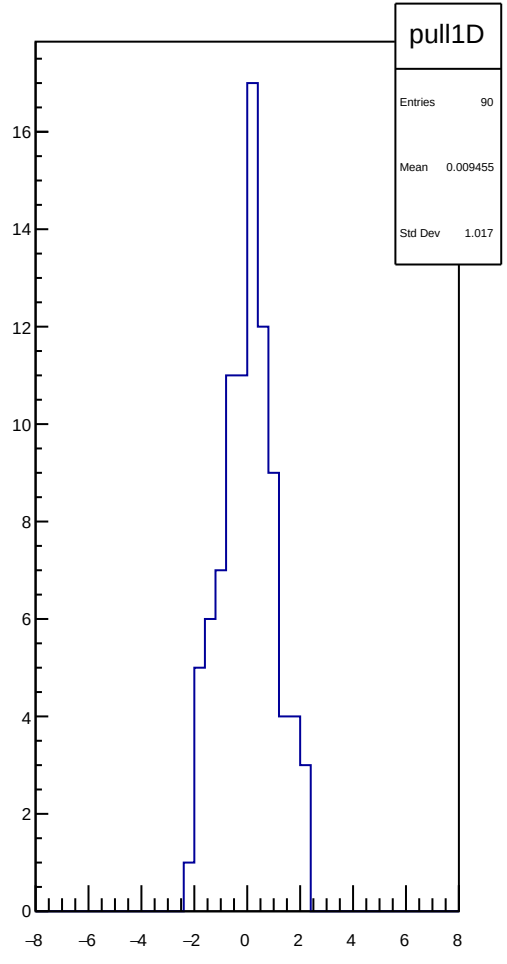

overload_cor_asym_usl_rms vs run
χ² / ndf 122.5 / 89
p0 1105 ± 0.8276
1140
1130
1120
1110
1100
1090
1080
1070

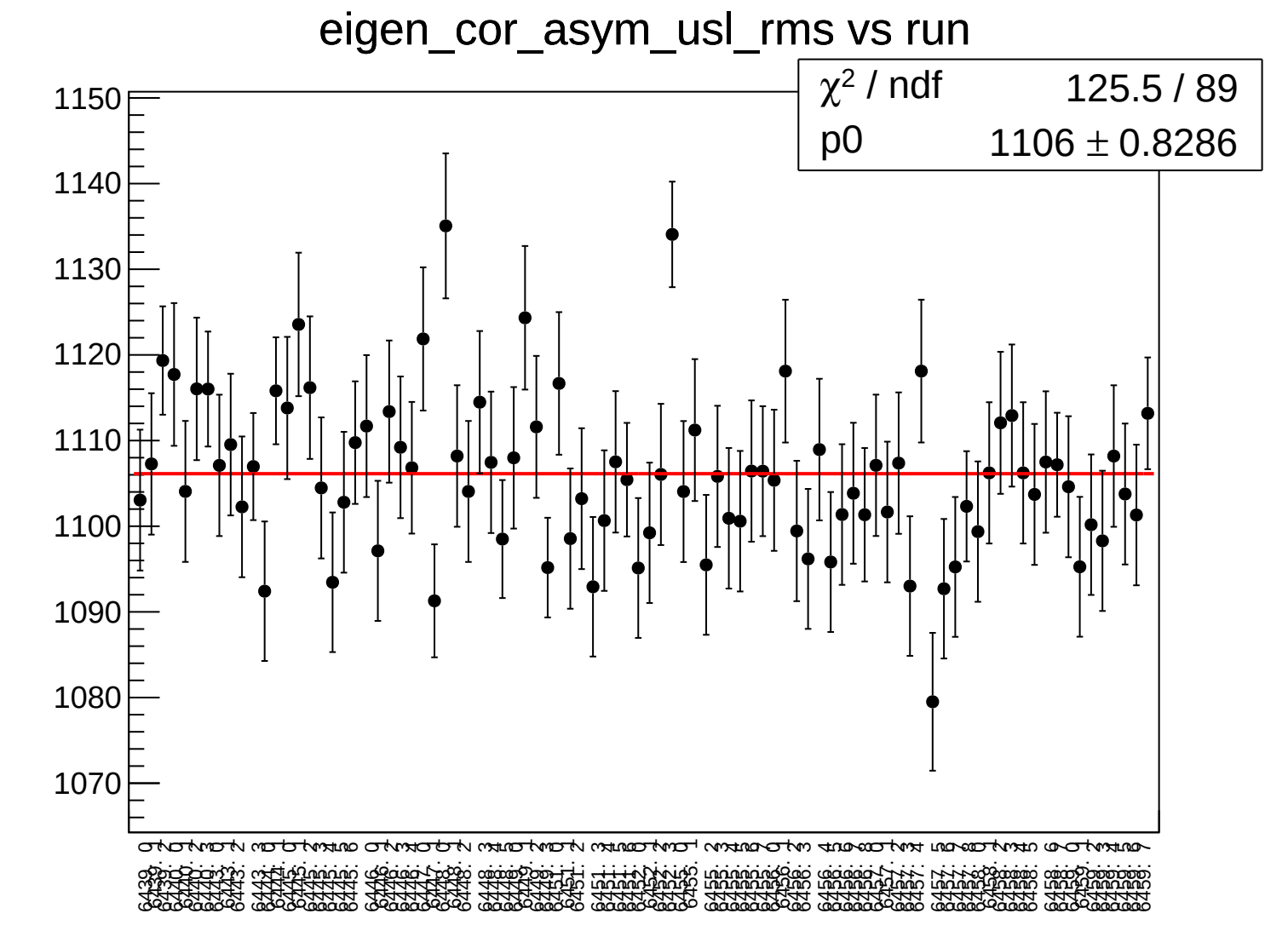

asym_usl_overload_cor_correction_mean vs run
χ² / ndf 77.32 / 89
p0 −3885 ± 1486
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −171.1
Std Dev 0
2
1
0
−1
−2

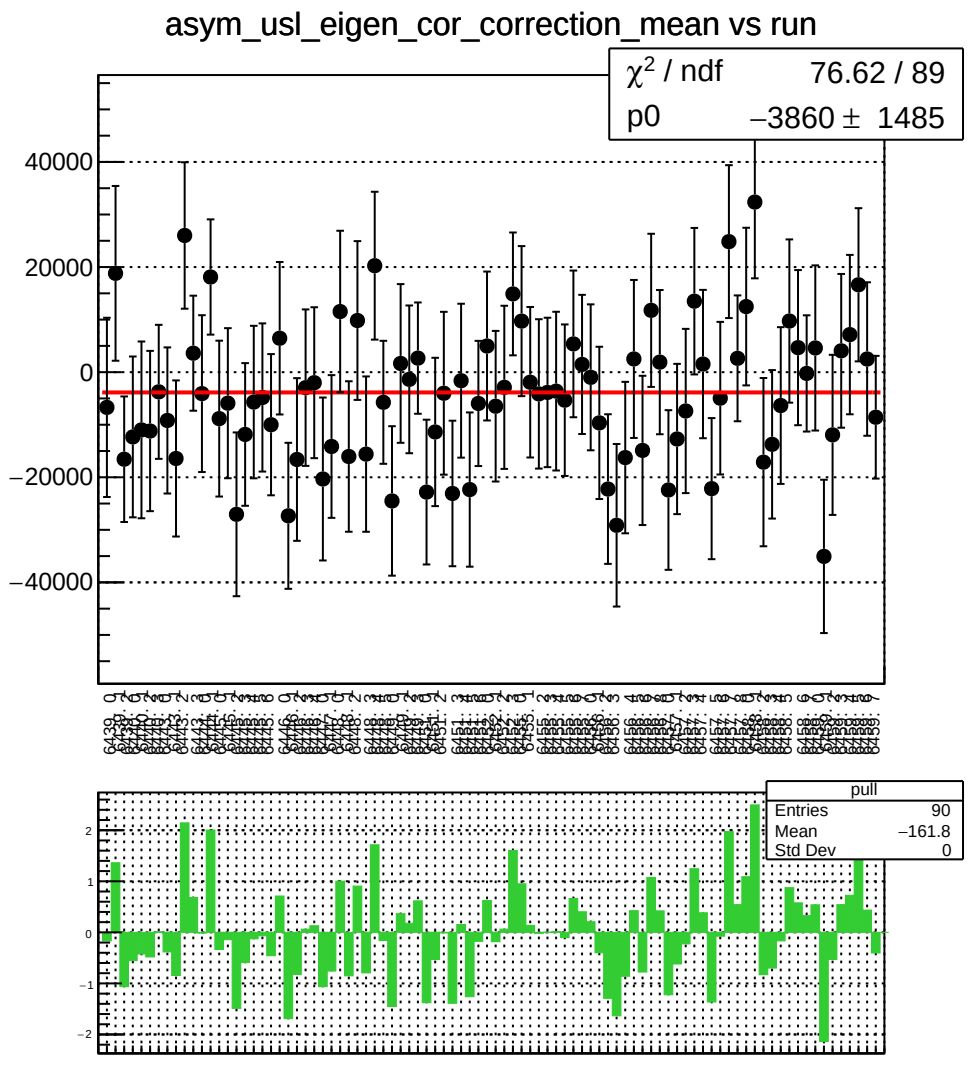

pull1D
Entries 90
Mean −0.01371
Std Dev 0.9268
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

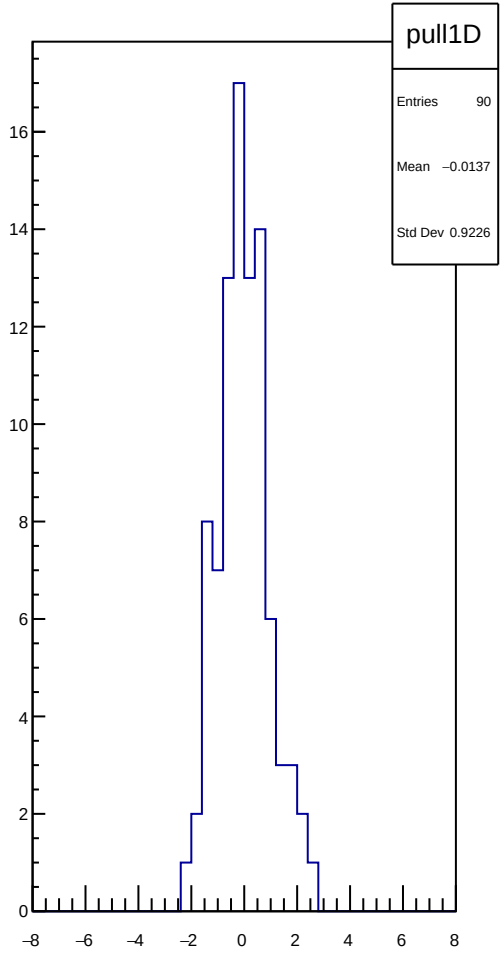

asym_usl_overload_cor_correction_rms vs run
χ² / ndf 4094 / 89
p0 1401 ± 1.051
1650
1600
1550
1500
1450
1400
1350
1300
1250

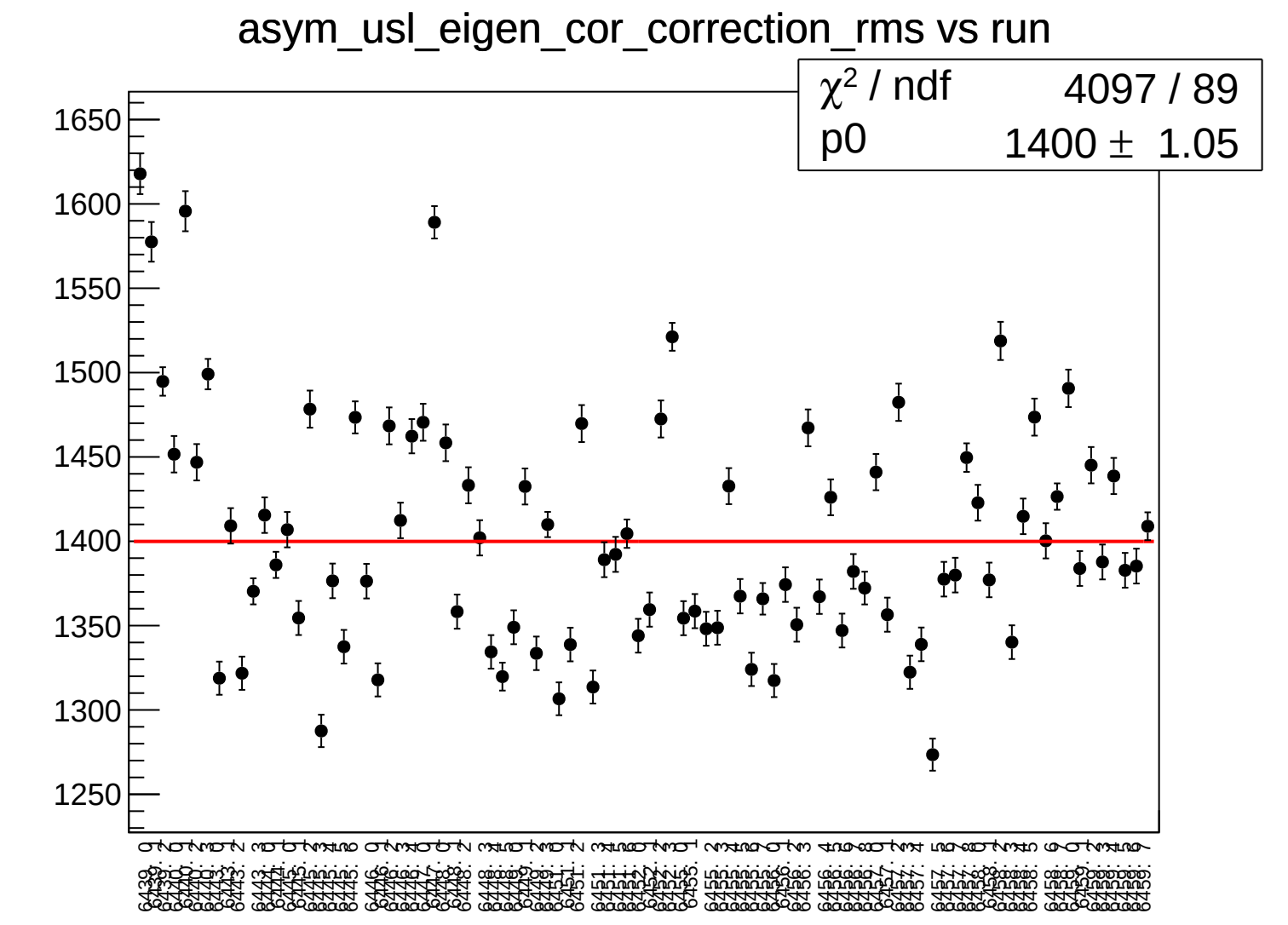

eigen_cor_asym_usl_mean vs run
χ² / ndf 93.04 / 89
p0 1568 ± 1172
pull
Entries 90
Mean 183.5
Std Dev 0

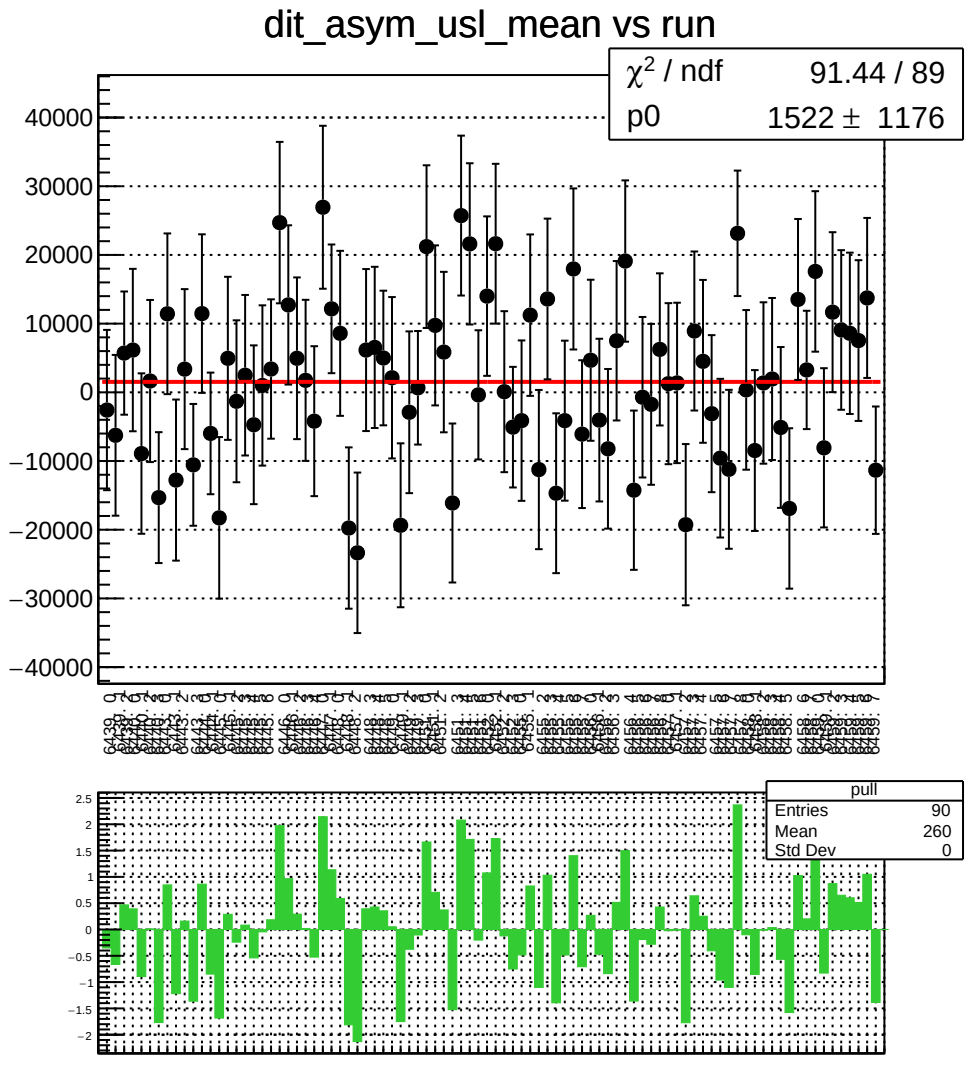

pull1D
Entries 90
Mean 0.009455
Std Dev 1.017

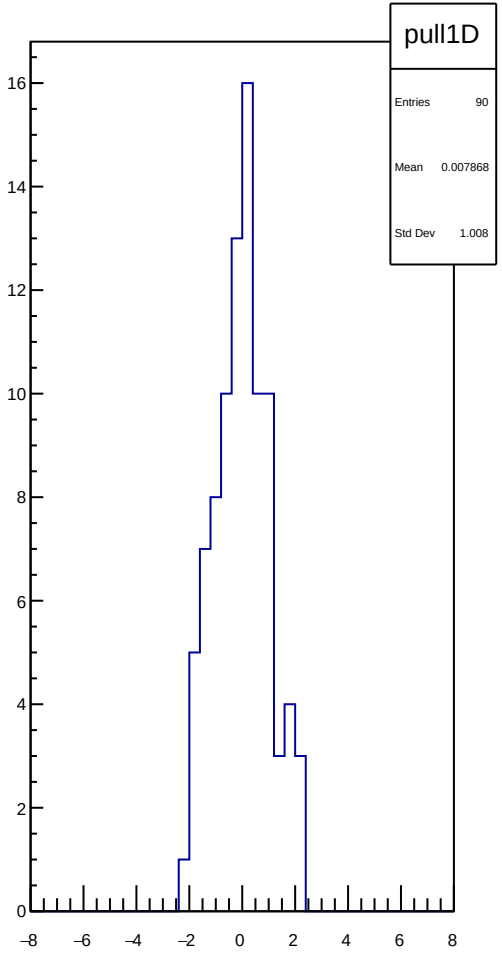

eigen_cor_asym_usl_rms vs run
χ² / ndf 125.5 / 89
p0 1106 ± 0.8286
1150
1140
1130
1120
1110
1100
1090
1080
1070

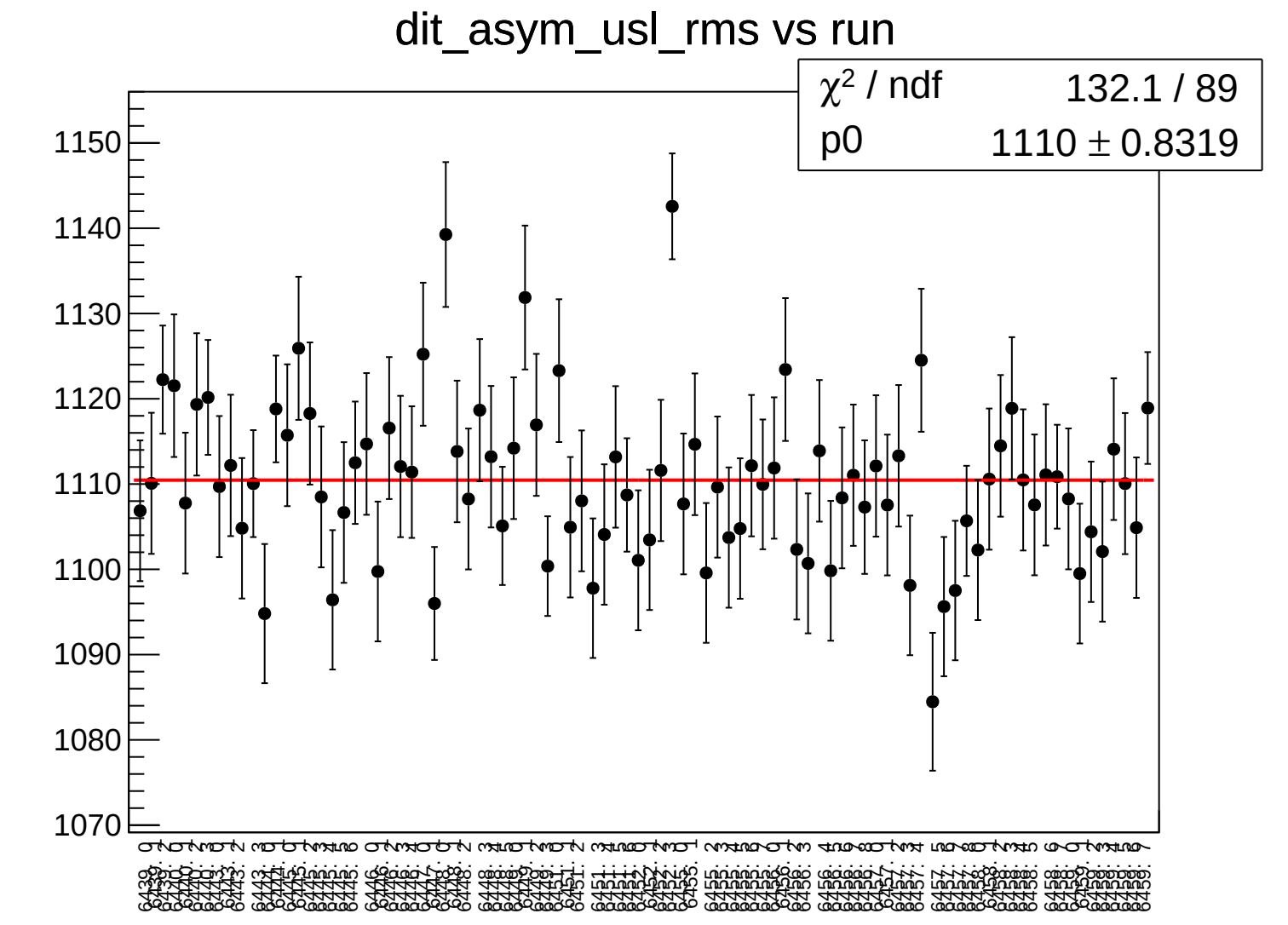

asym_usl_eigen_cor_correction_mean vs run
χ² / ndf 76.62 / 89
p0 −3860 ± 1485
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −161.8
Std Dev 0
2
1
0
−1
−2

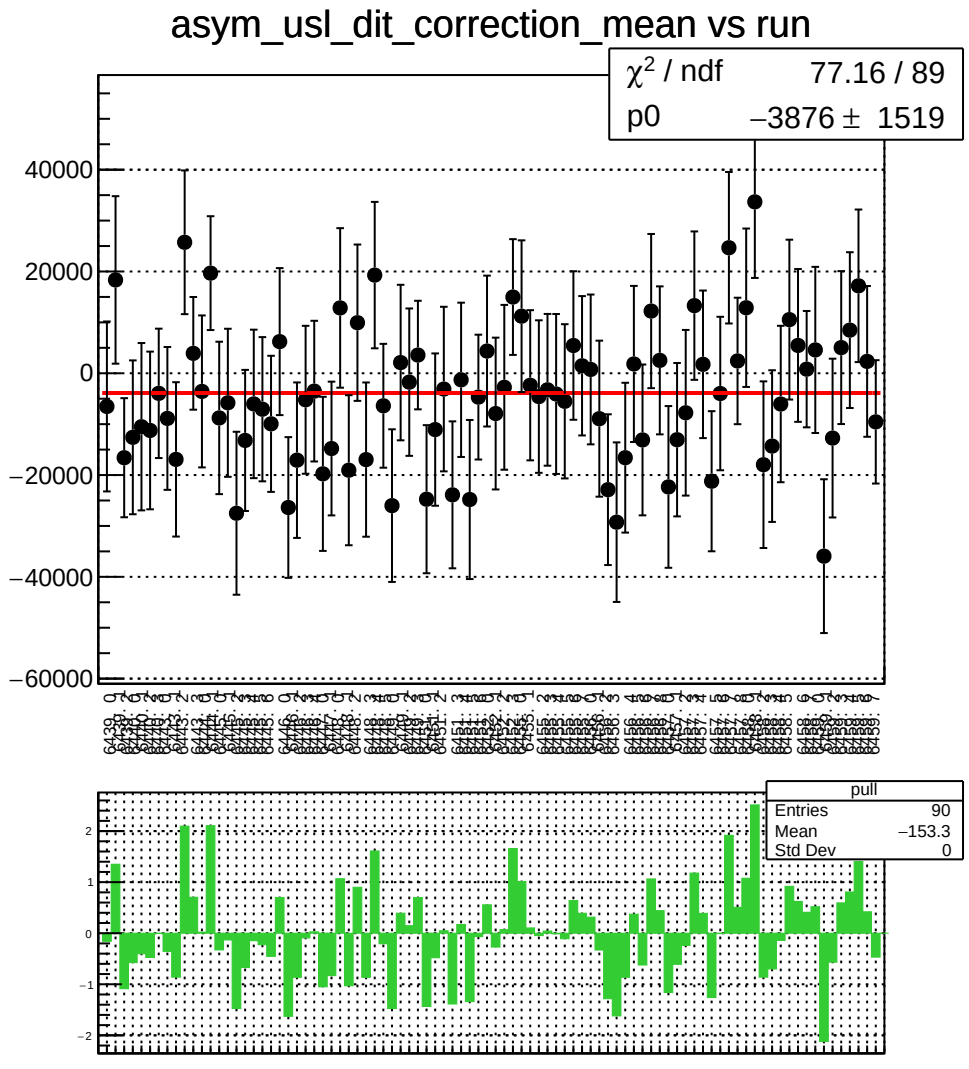

pull1D
Entries 90
Mean −0.0137
Std Dev 0.9226
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

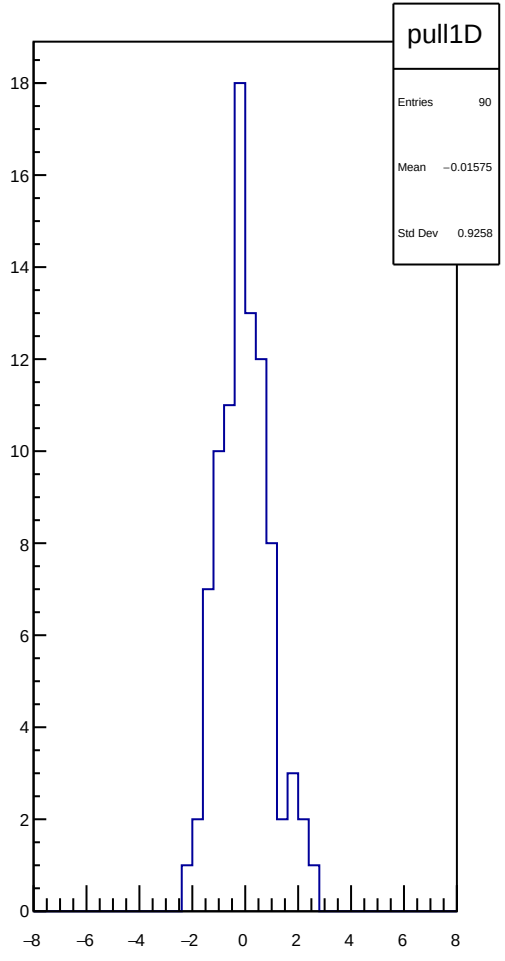

asym_usl_eigen_cor_correction_rms vs run
χ² / ndf 4097 / 89
p0 1400 ± 1.05
1650
1600
1550
1500
1450
1400
1350
1300
1250

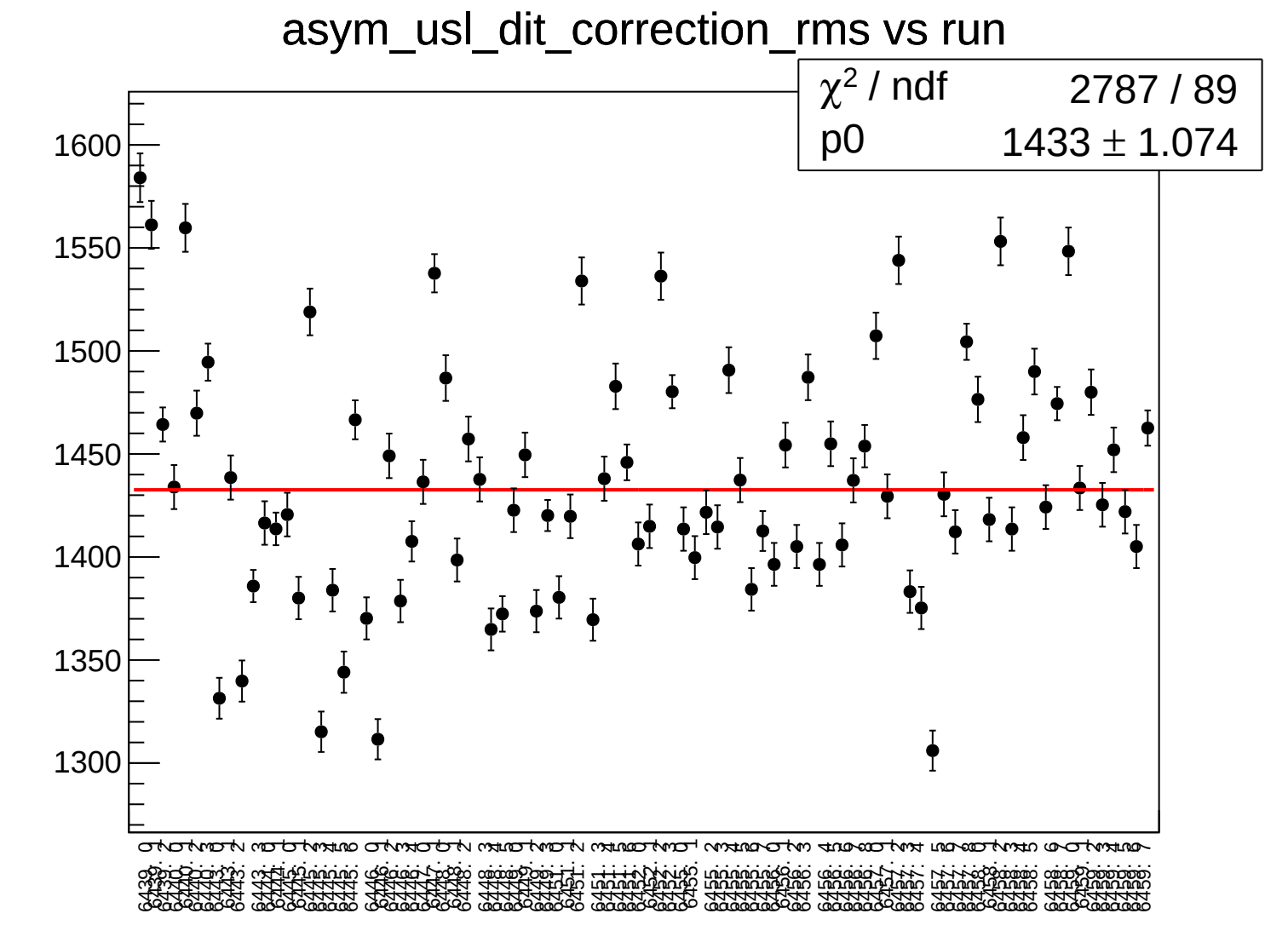

dit_asym_usl_mean vs run
χ^2 / ndf 91.44 / 89
p0 1522 ± 1176
pull
Entries 90
Mean 260
Std Dev 0

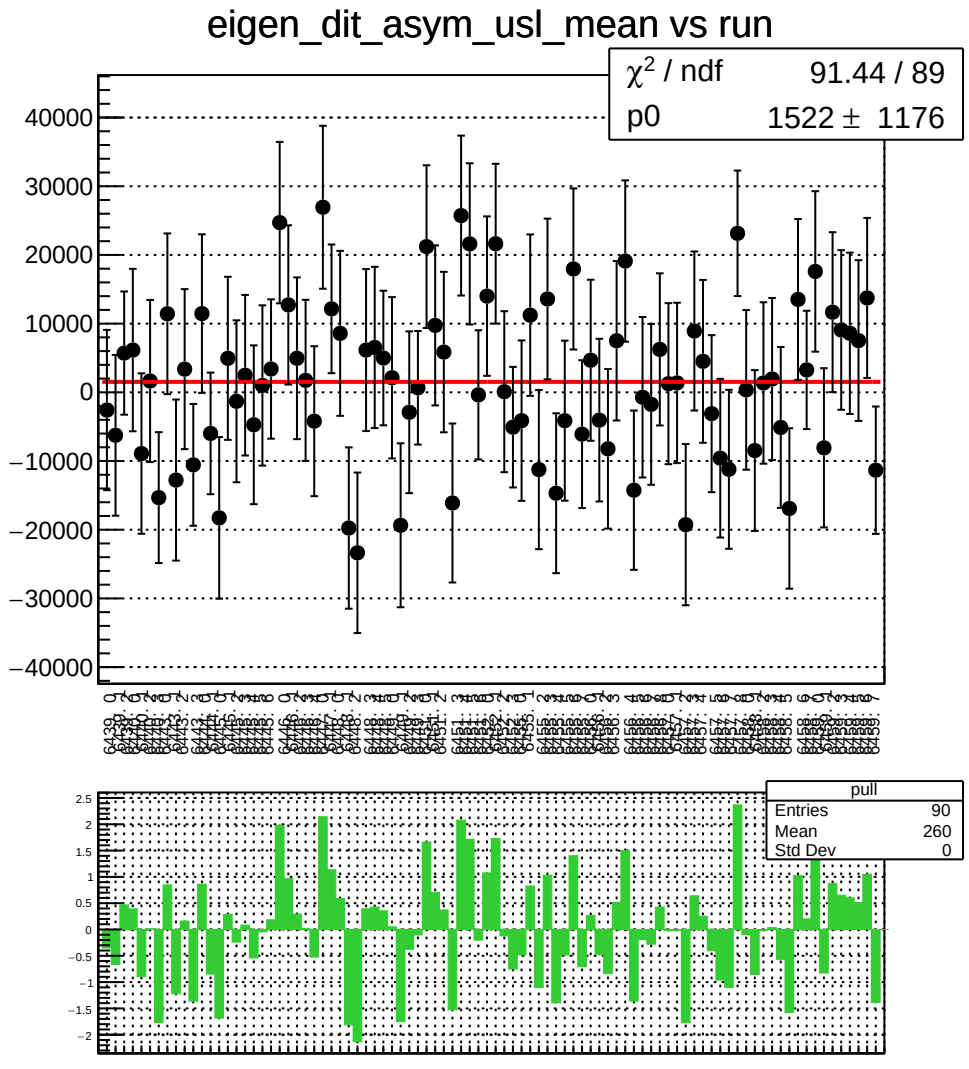

pull1D
Entries 90
Mean 0.007868
Std Dev 1.008

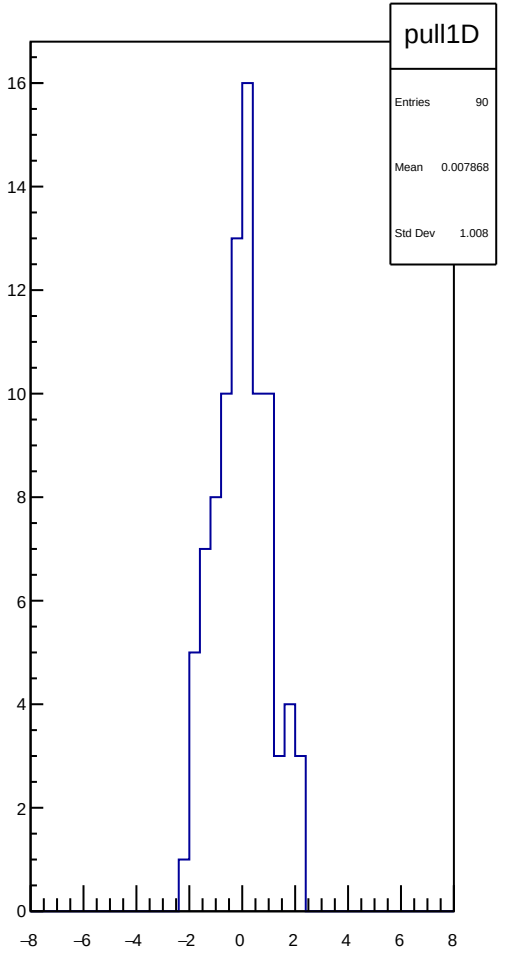

dit_asym_usl_rms vs run
χ² / ndf 132.1 / 89
p0 1110 ± 0.8319
1150
1140
1130
1120
1110
1100
1090
1080
1070

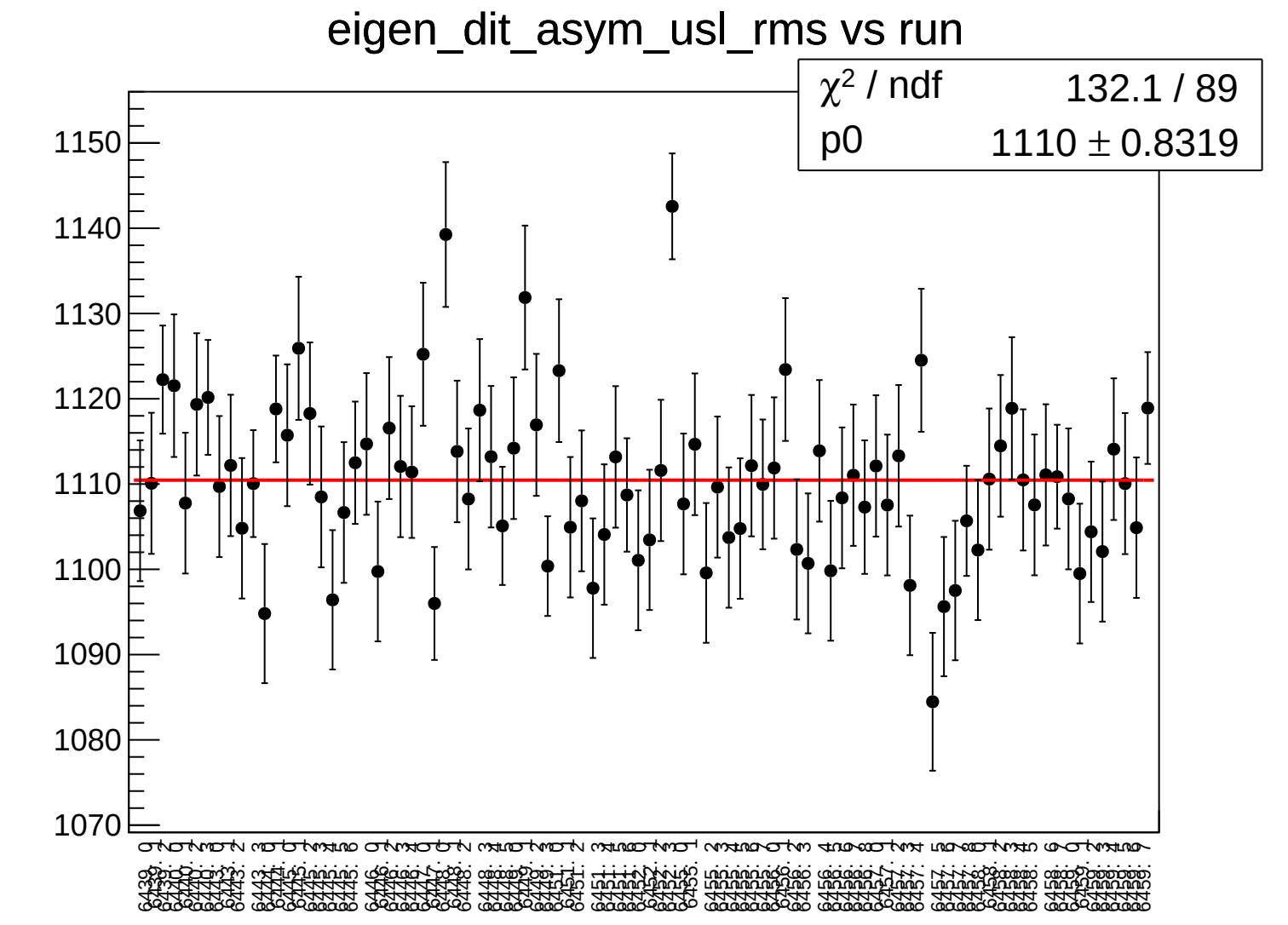

asym_usl_dit_correction_mean vs run
χ² / ndf 77.16 / 89
p0 −3876 ± 1519
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −153.3
Std Dev 0
2
1
0
−1
−2

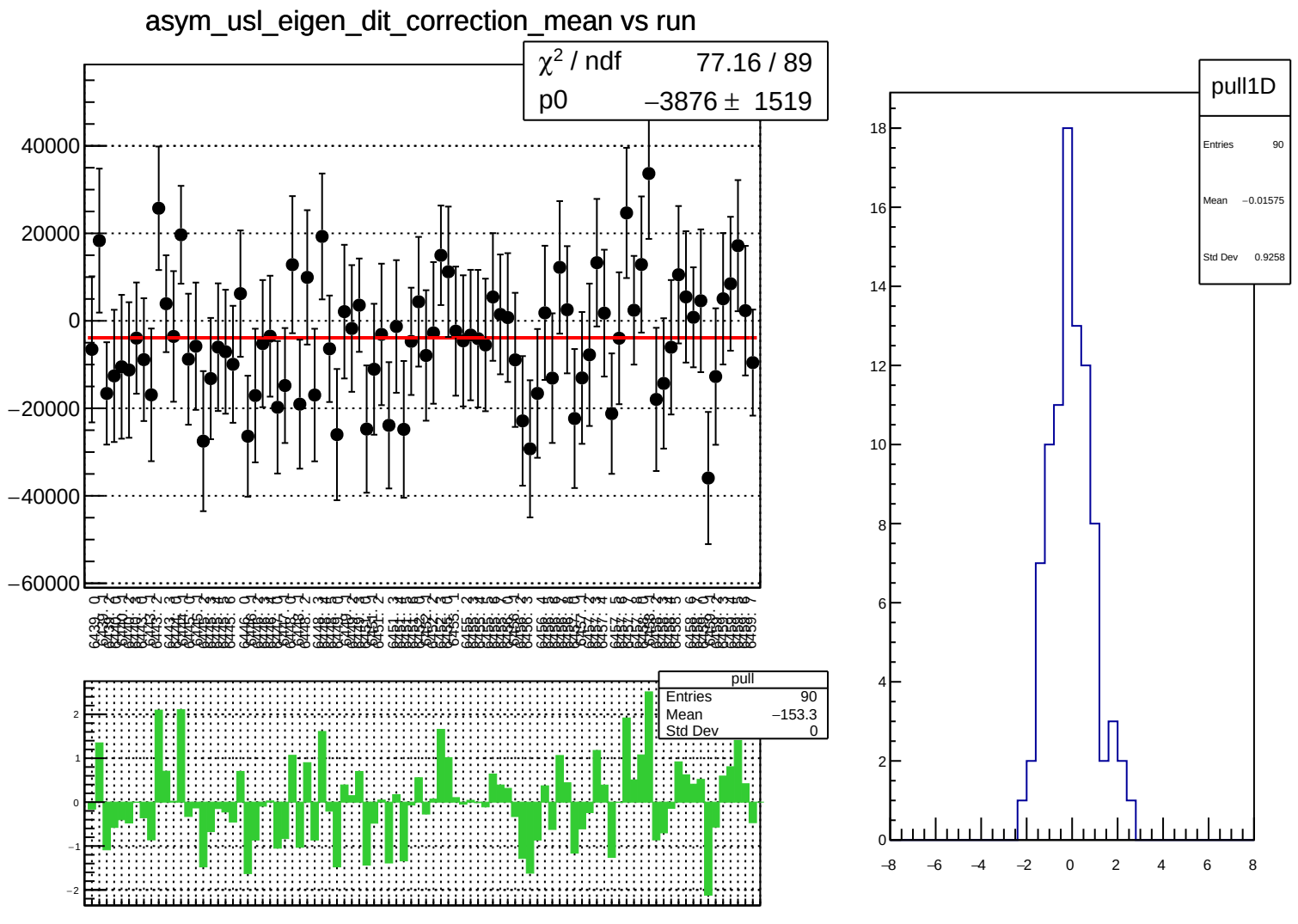

pull1D
Entries 90
Mean −0.01575
Std Dev 0.9258
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

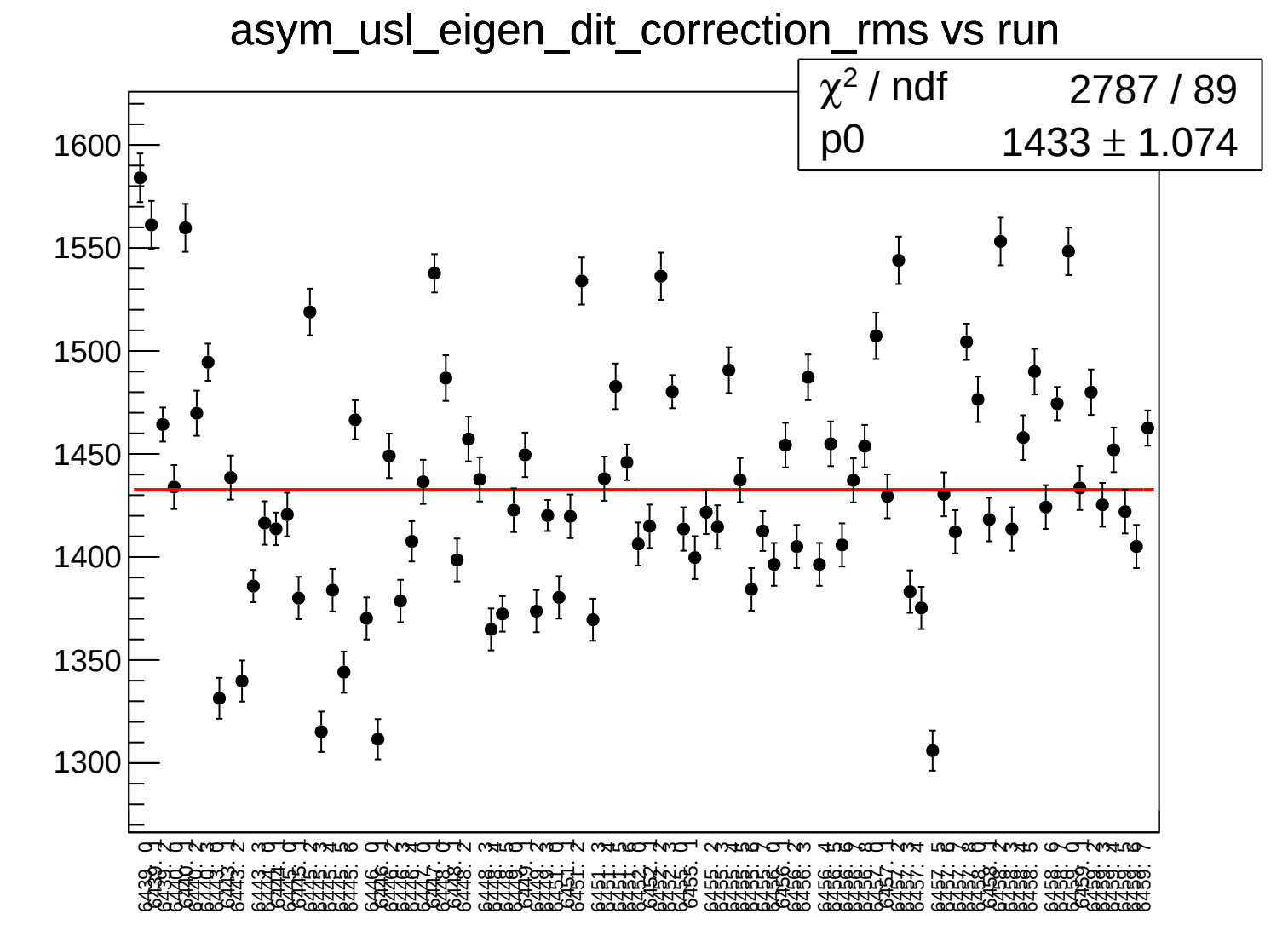

asym_usl_dit_correction_rms vs run
χ² / ndf 2787 / 89
p0 1433 ± 1.074
1600
1550
1500
1450
1400
1350
1300

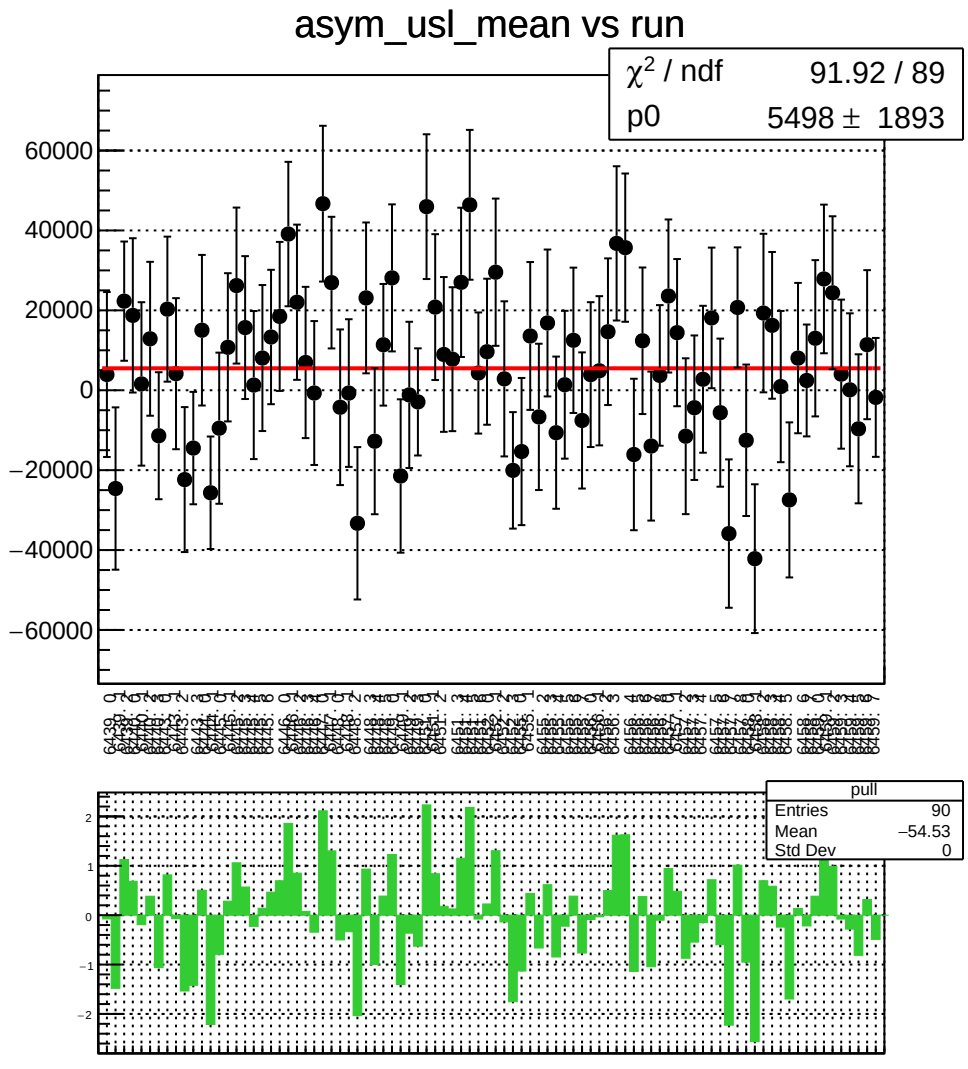

eigen_dit_asym_usl_mean vs run
χ² / ndf 91.44 / 89
p0 1522 ± 1176
pull
Entries 90
Mean 260
Std Dev 0

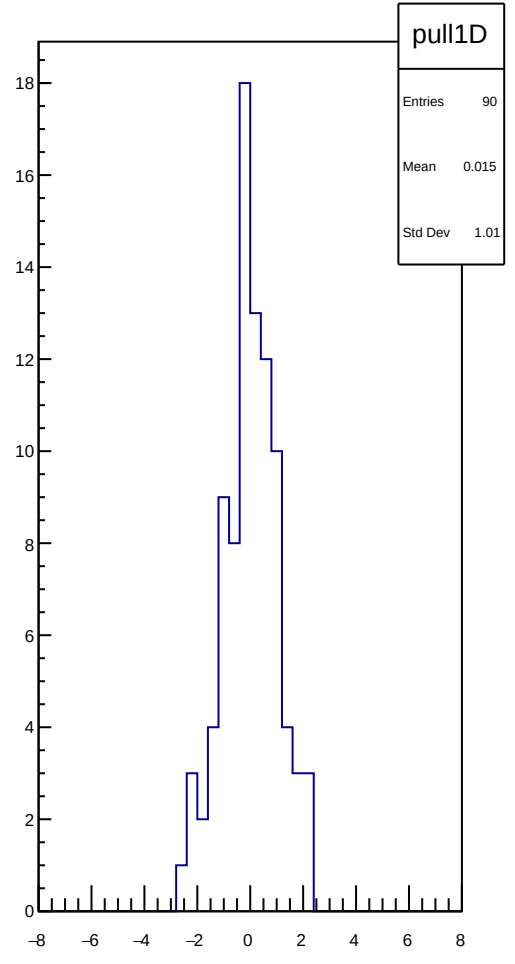

pull1D
Entries 90
Mean 0.007868
Std Dev 1.008

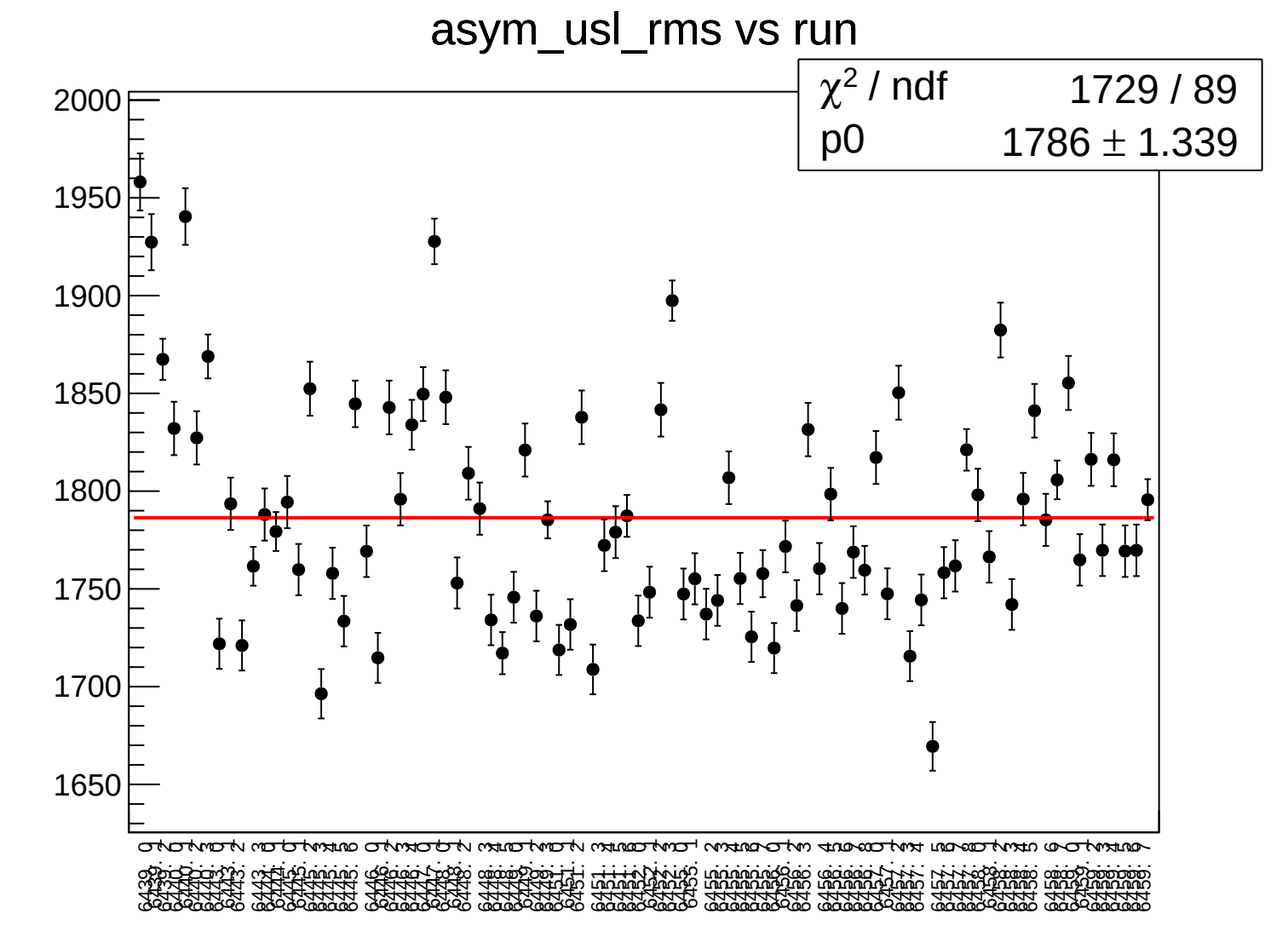

eigen_dit_asym_usl_rms vs run
χ² / ndf 132.1 / 89
p0 1110 ± 0.8319
1150
1140
1130
1120
1110
1100
1090
1080
1070

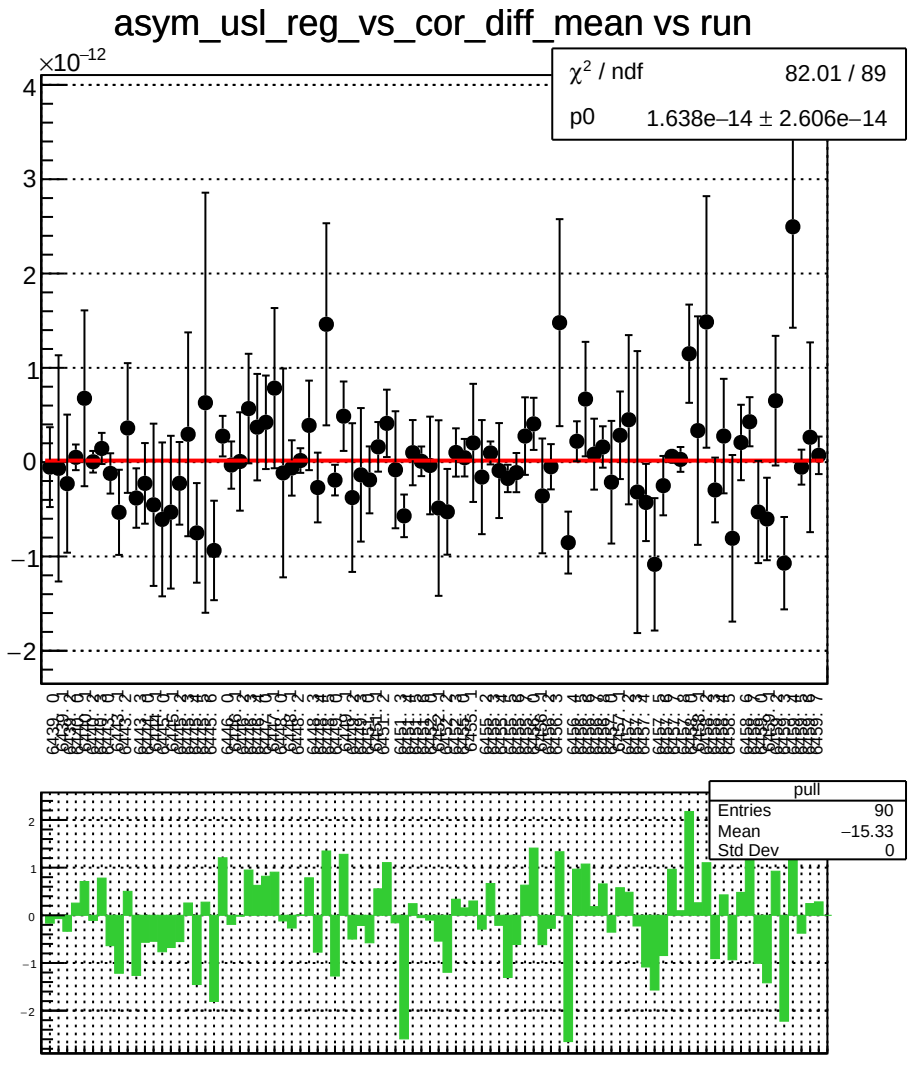

asym_usl_eigen_dit_correction_mean vs run
χ² / ndf 77.16 / 89
p0 −3876 ± 1519
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −153.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.01575
Std Dev 0.9258
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

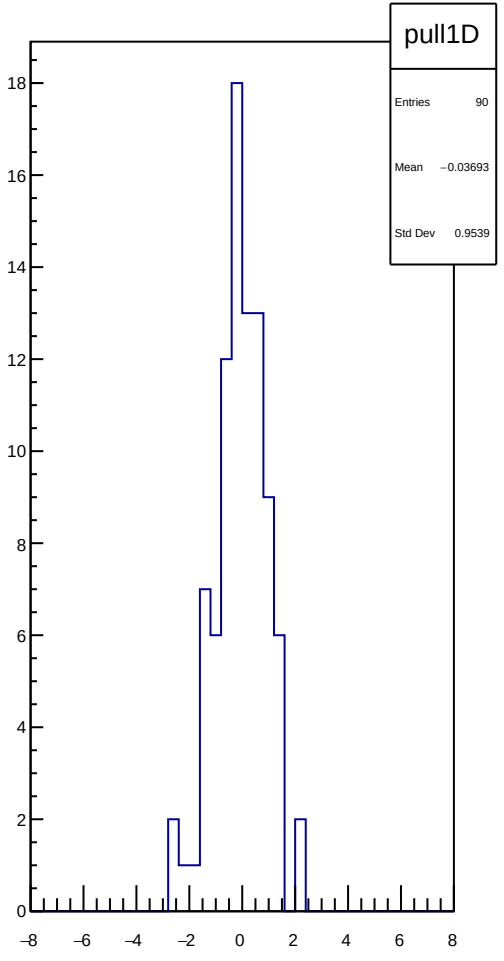

asym_usl_eigen_dit_correction_rms vs run
χ² / ndf 2787 / 89
p0 1433 ± 1.074
1600
1550
1500
1450
1400
1350
1300

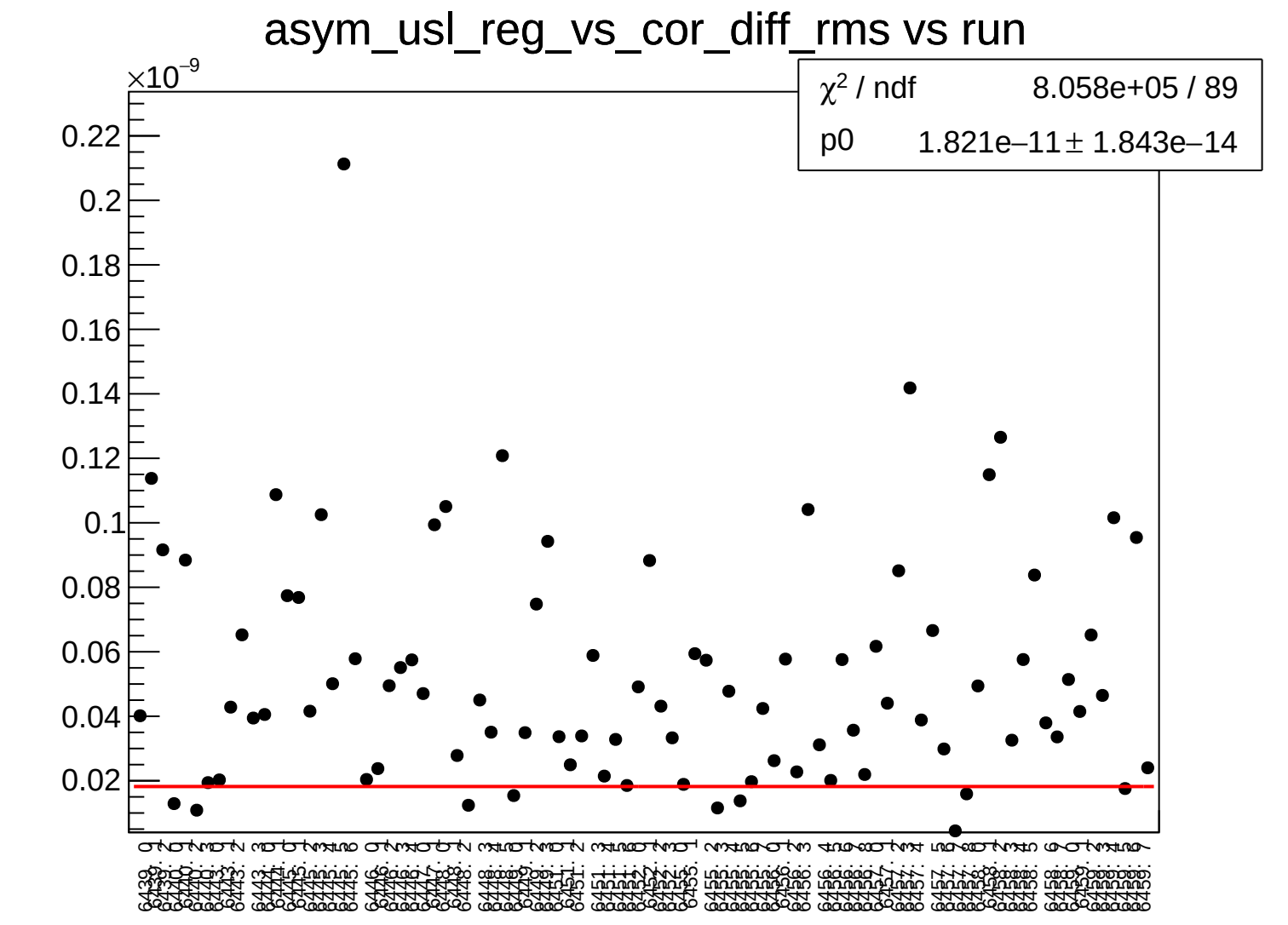

asym_usl_mean vs run
χ² / ndf 91.92 / 89
p0 5498 ± 1893
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −54.53
Std Dev 0
2
1
0
−1
−2

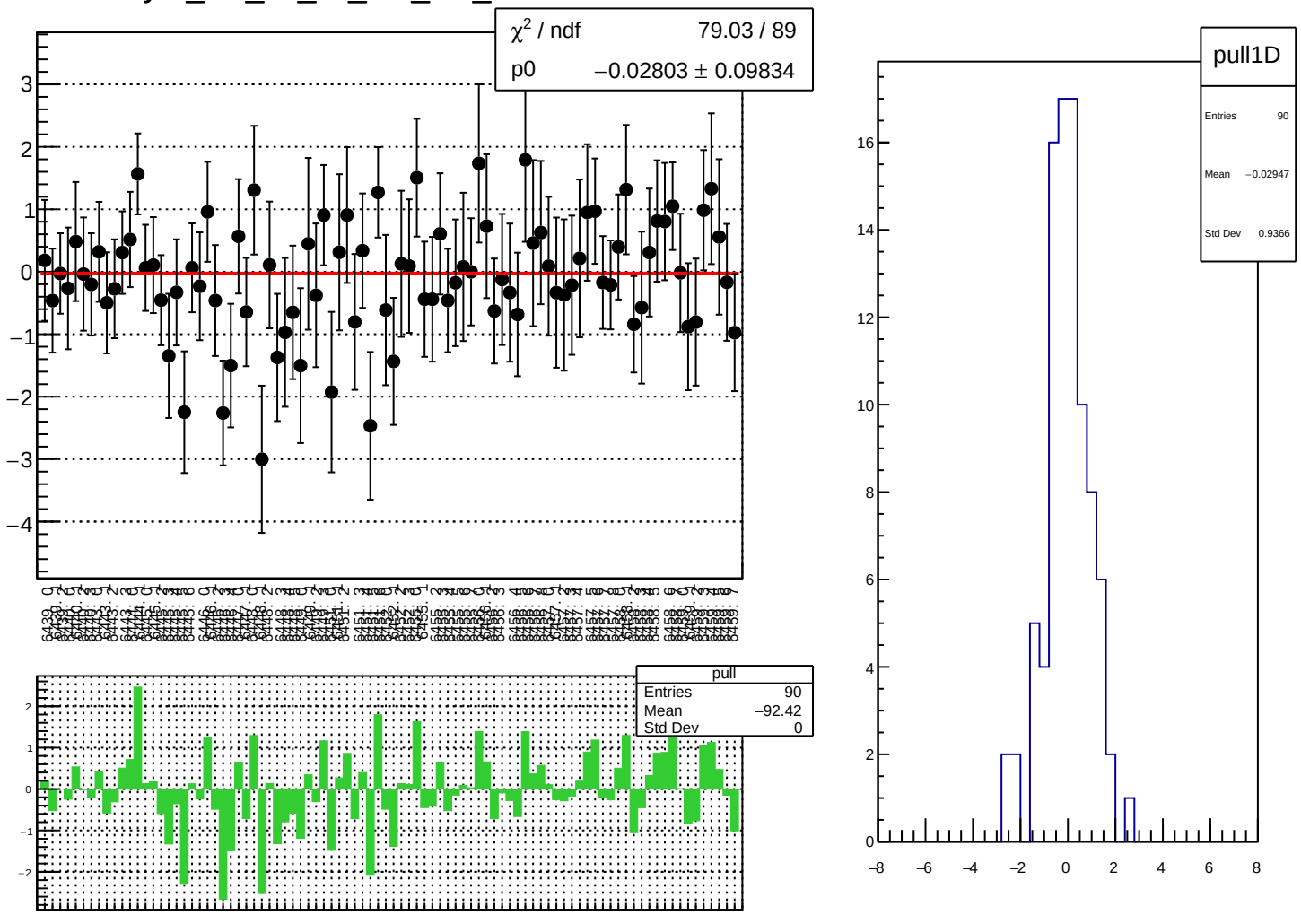

pull1D
Entries 90
Mean 0.015
Std Dev 1.01
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

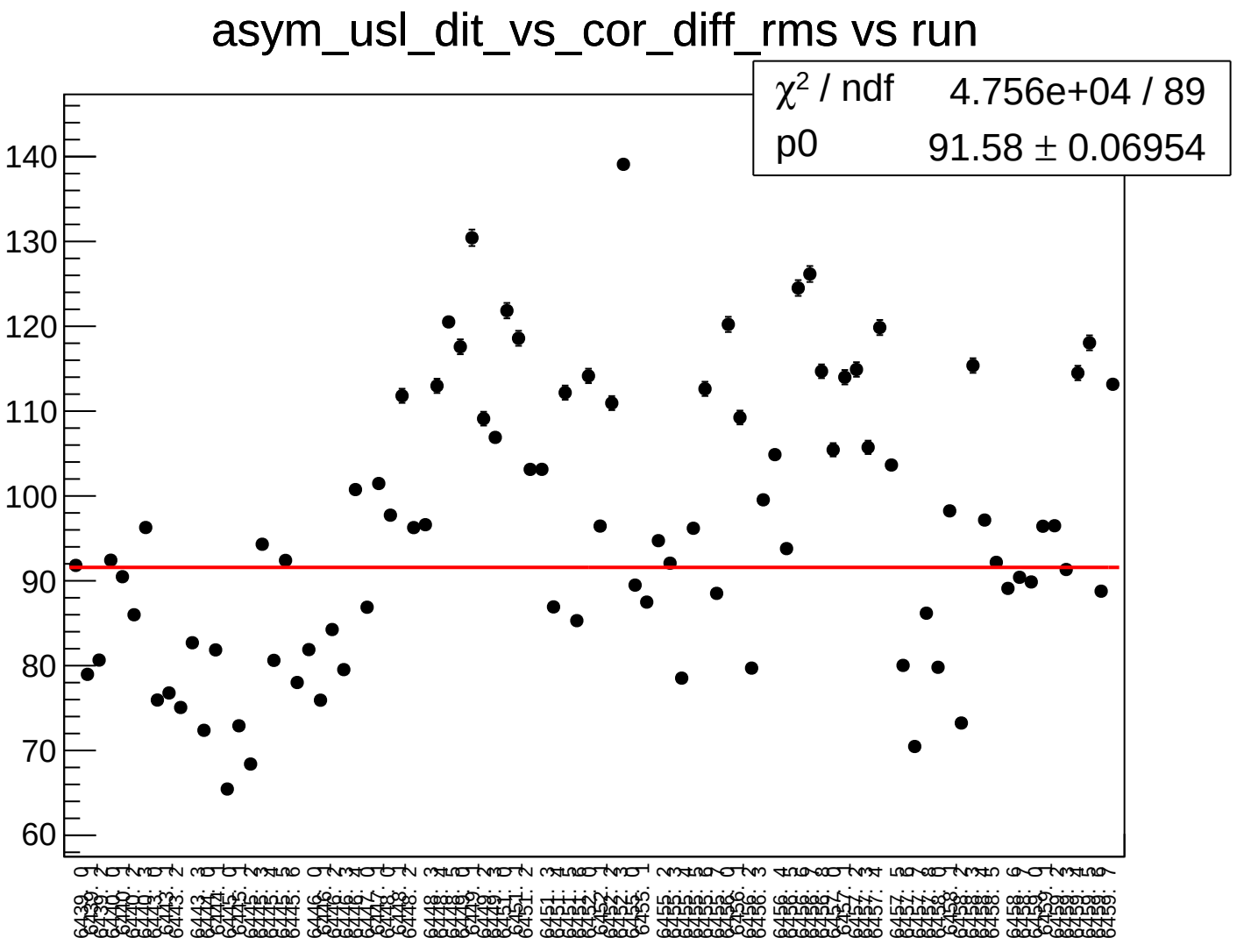

asym_usl_rms vs run
χ^2 / ndf 1729 / 89
p0 1786 ± 1.339
2000
1950
1900
1850
1800
1750
1700
1650

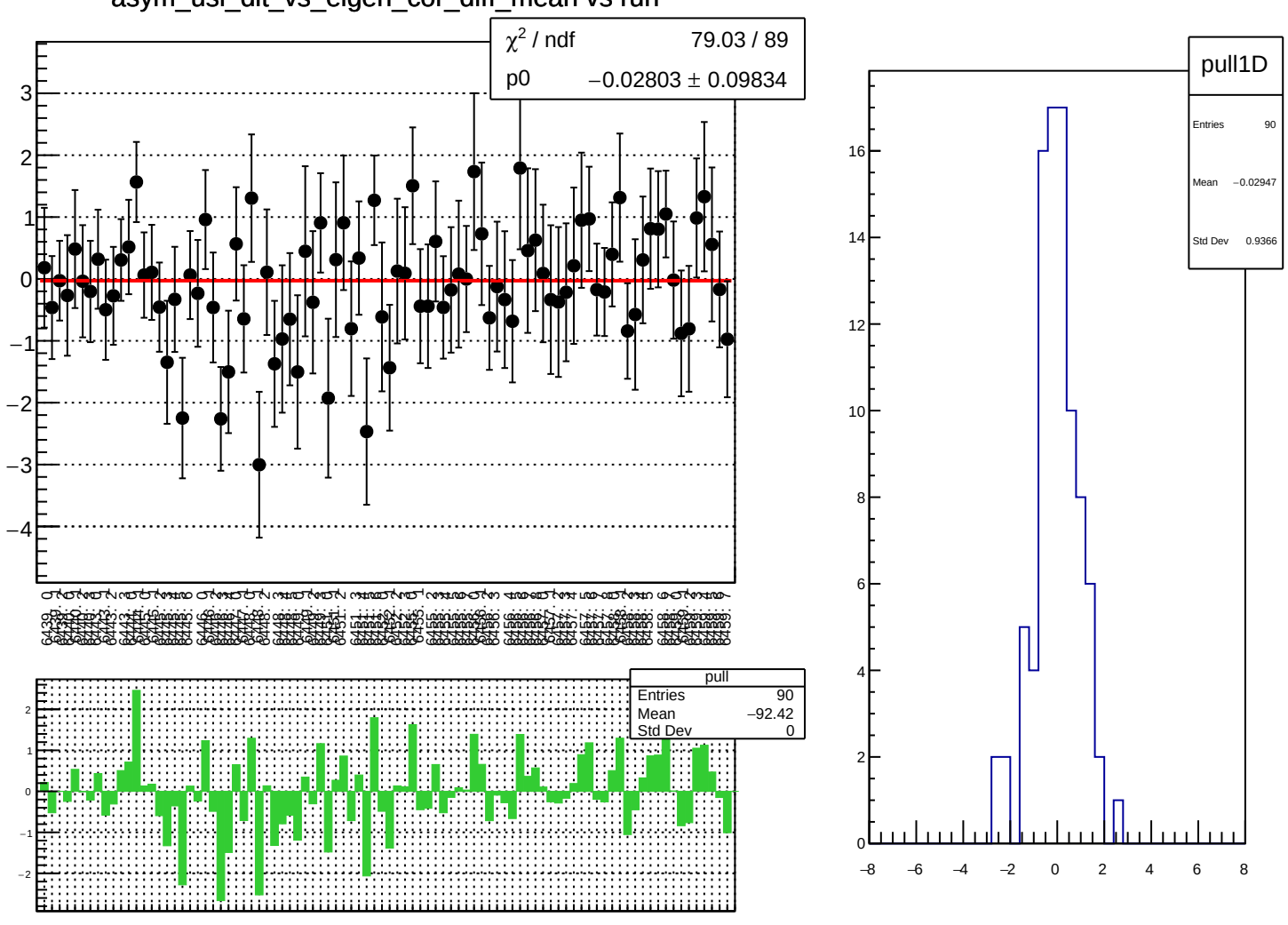

asym_usl_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.01 / 89
p0 1.638e−14 ± 2.606e−14
pull
Entries 90
Mean −15.33
Std Dev 0

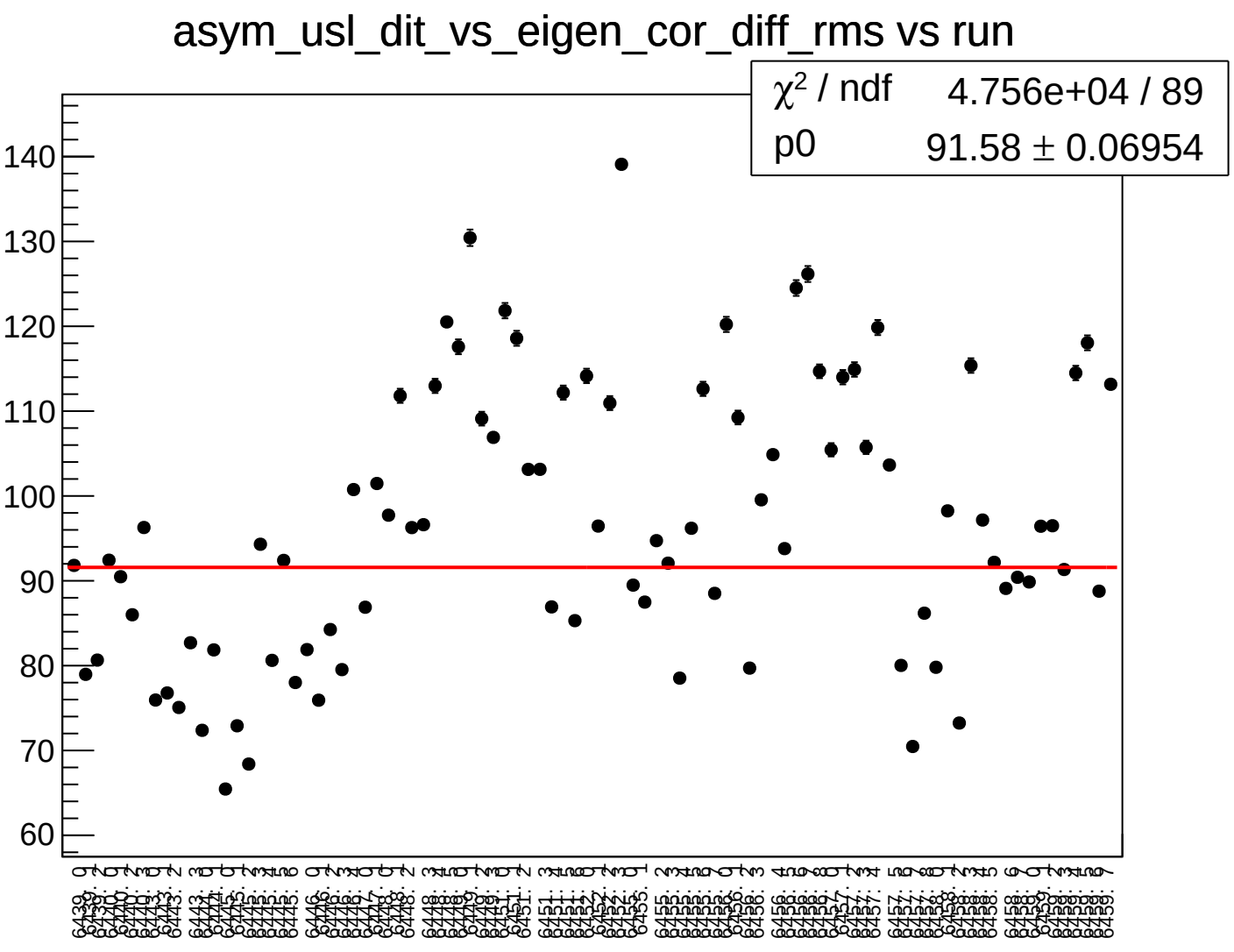

pull1D
Entries 90
Mean −0.03693
Std Dev 0.9539

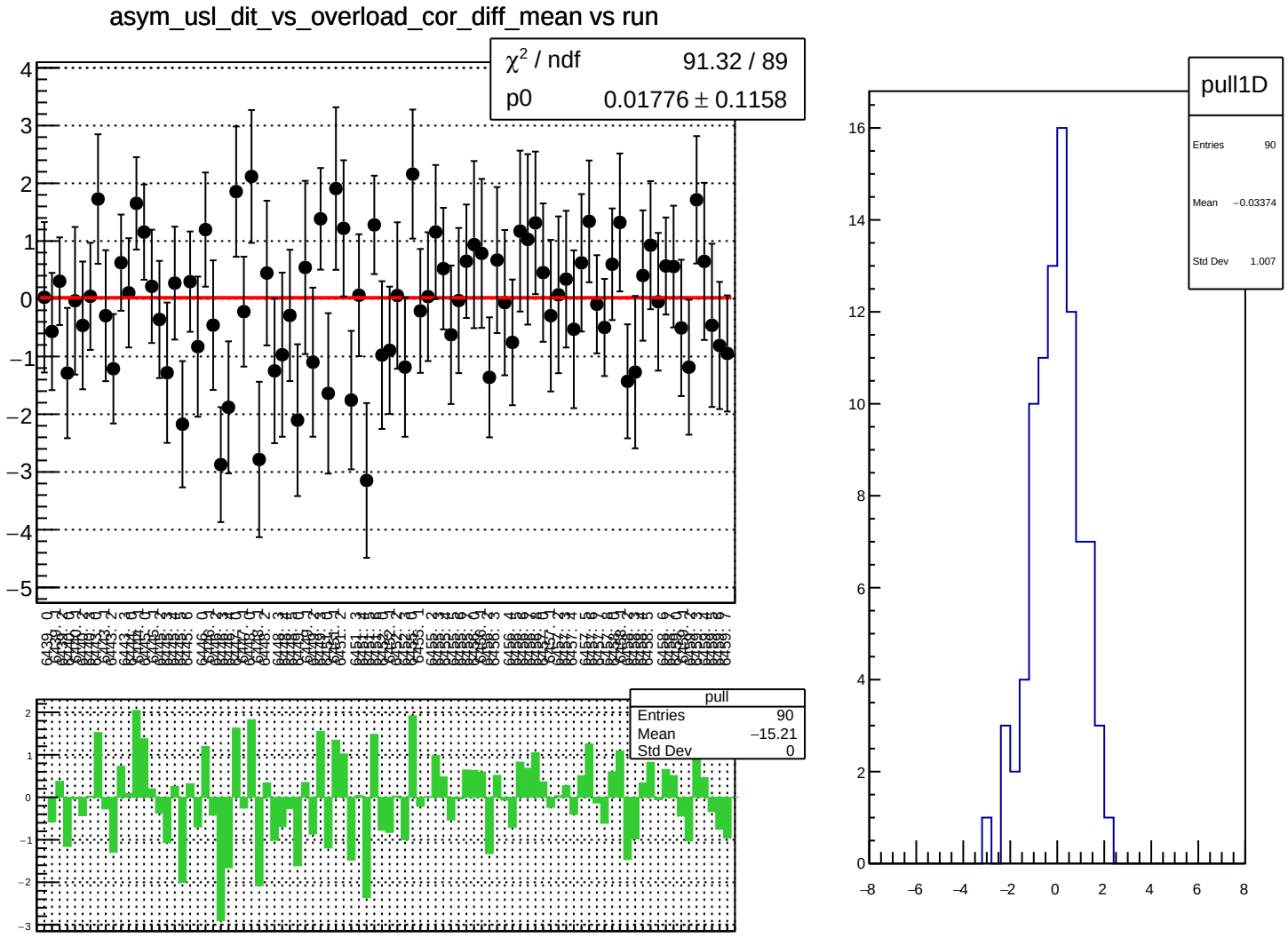

asym_usl_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.058e+05 / 89
p0 1.821e−11 ± 1.843e−14
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

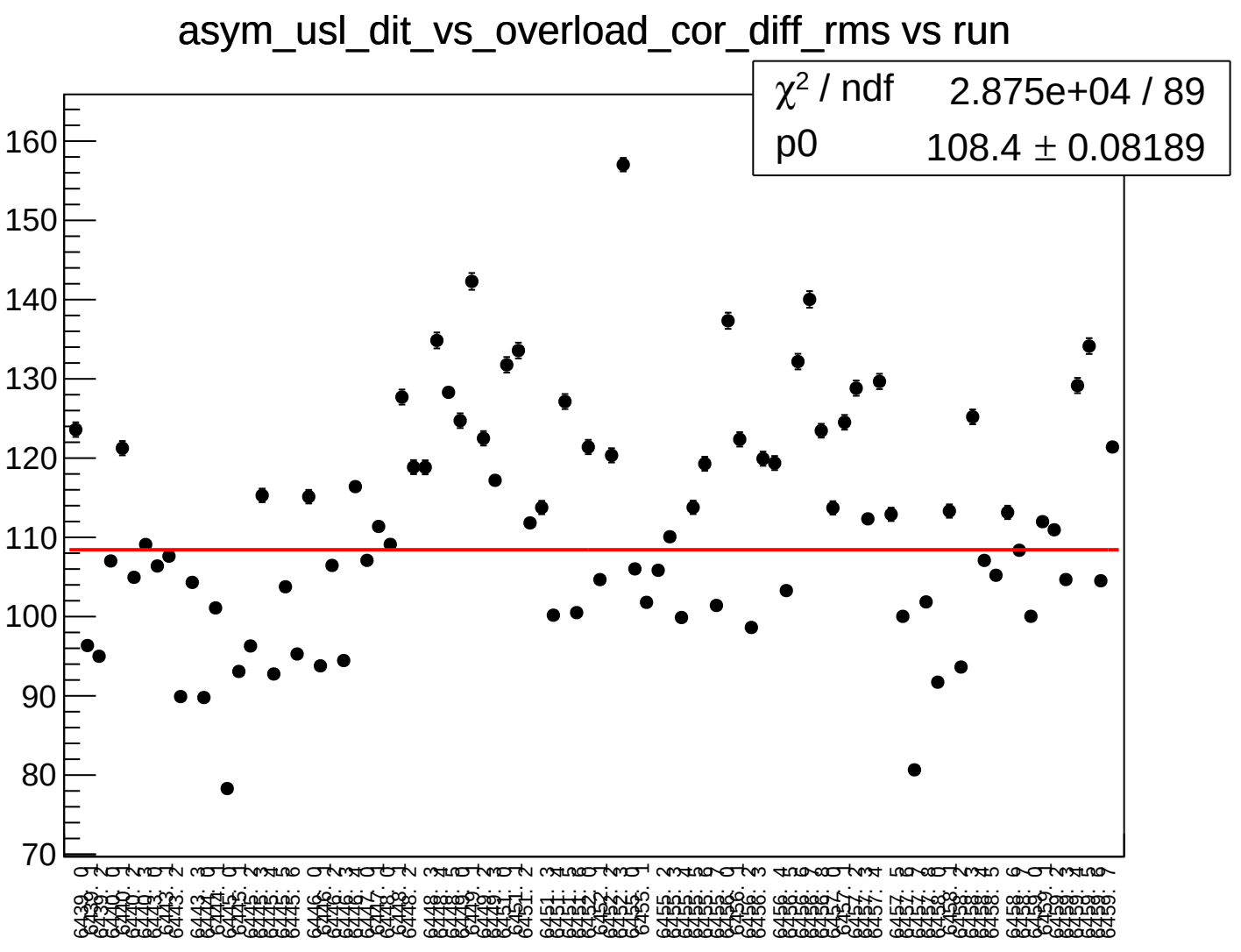

asym_usl_dit_vs_cor_diff_mean vs run
χ² / ndf 79.03 / 89
p0 −0.02803 ± 0.09834
pull
Entries 90
Mean −92.42
Std Dev 0
pull1D
Entries 90
Mean −0.02947
Std Dev 0.9366

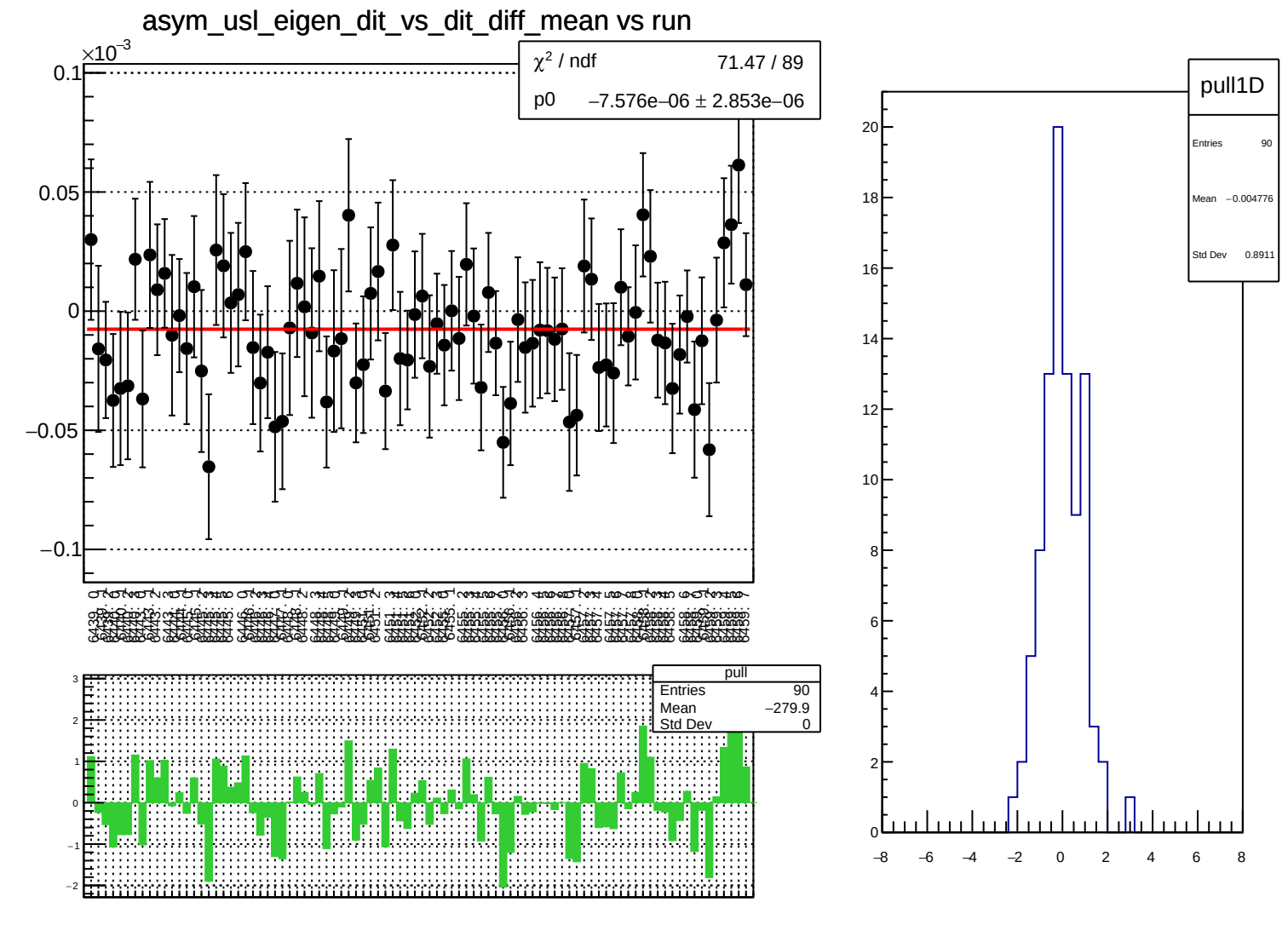

asym_usl_dit_vs_cor_diff_rms vs run
χ² / ndf 4.756e+04 / 89
p0 91.58 ± 0.06954
140
130
120
110
100
90
80
70
60

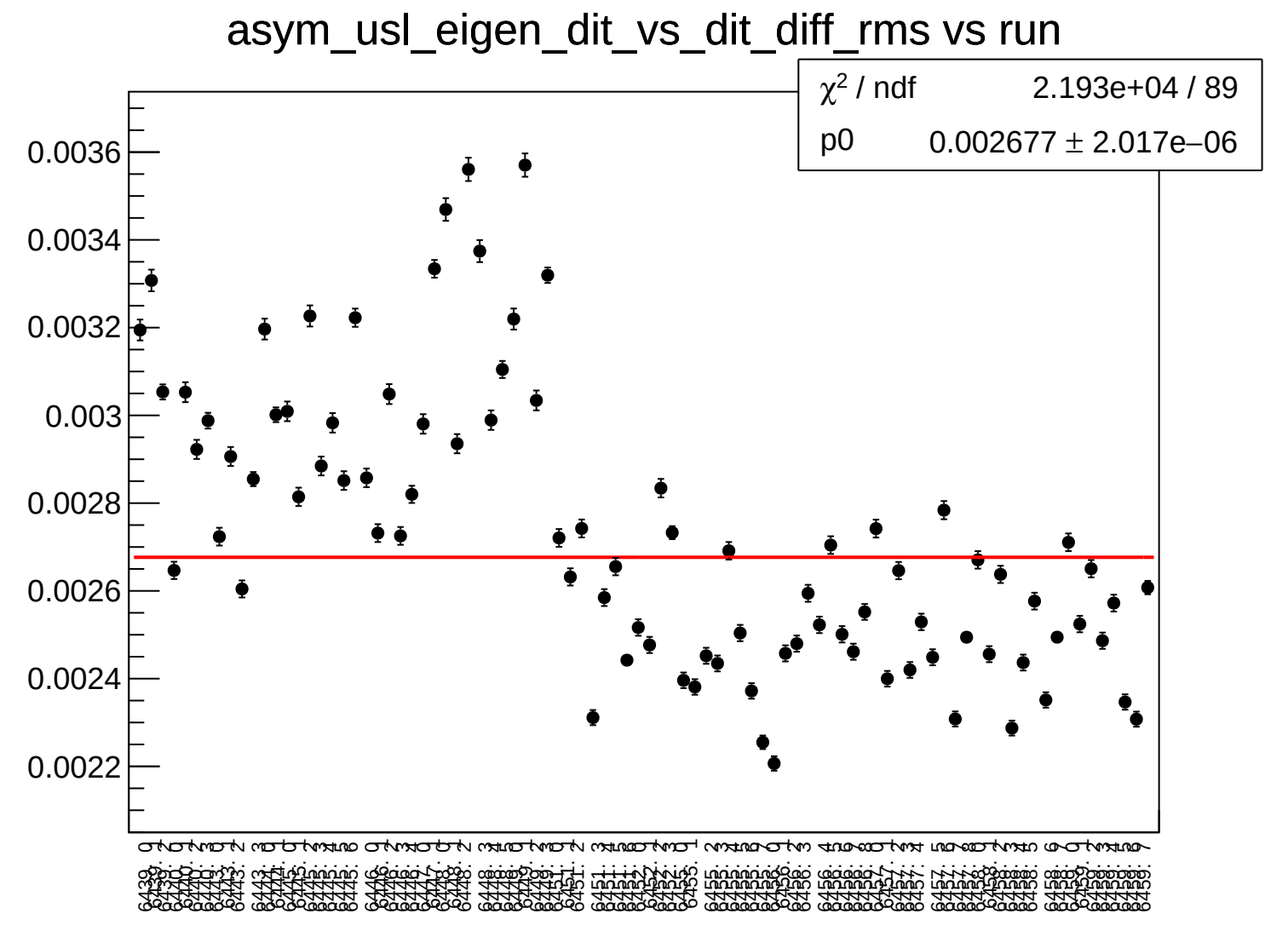

asym_usl_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.03 / 89
p0 −0.02803 ± 0.09834
pull
Entries 90
Mean −92.42
Std Dev 0
pull1D
Entries 90
Mean −0.02947
Std Dev 0.9366

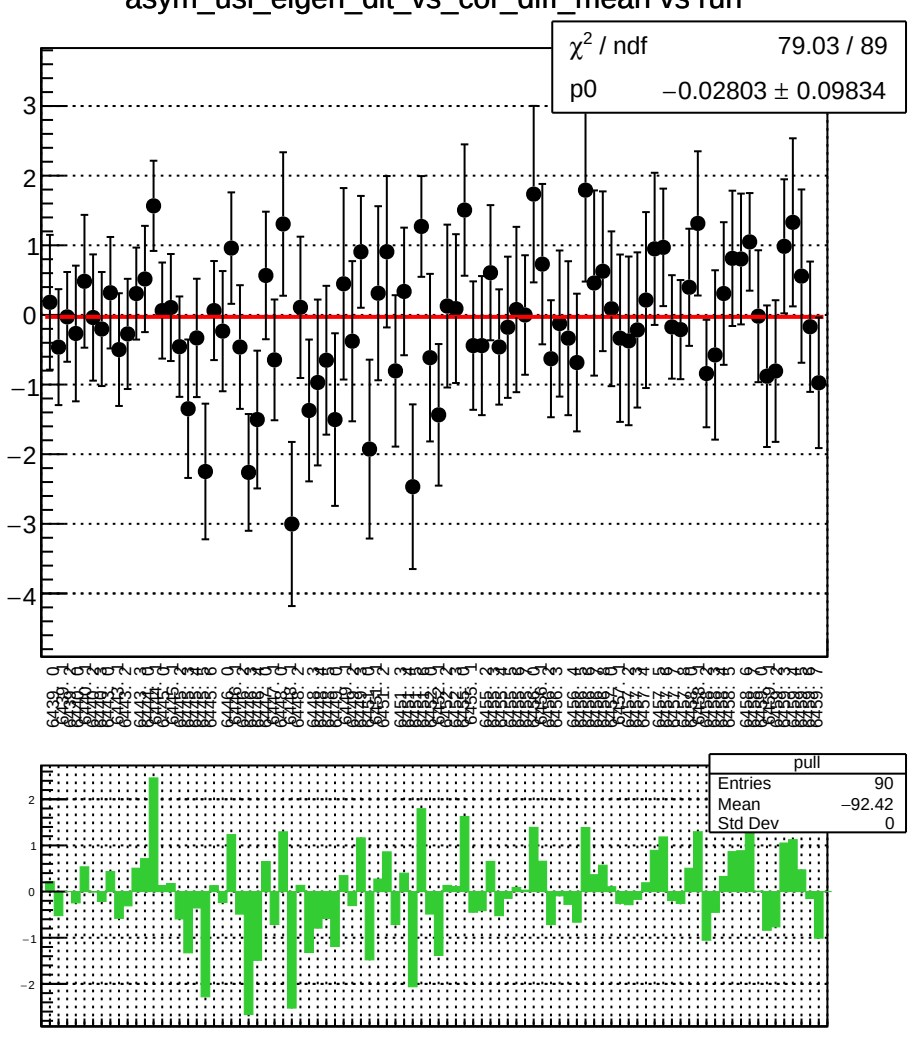

asym_usl_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.756e+04 / 89
p0 91.58 ± 0.06954
140
130
120
110
100
90
80
70
60

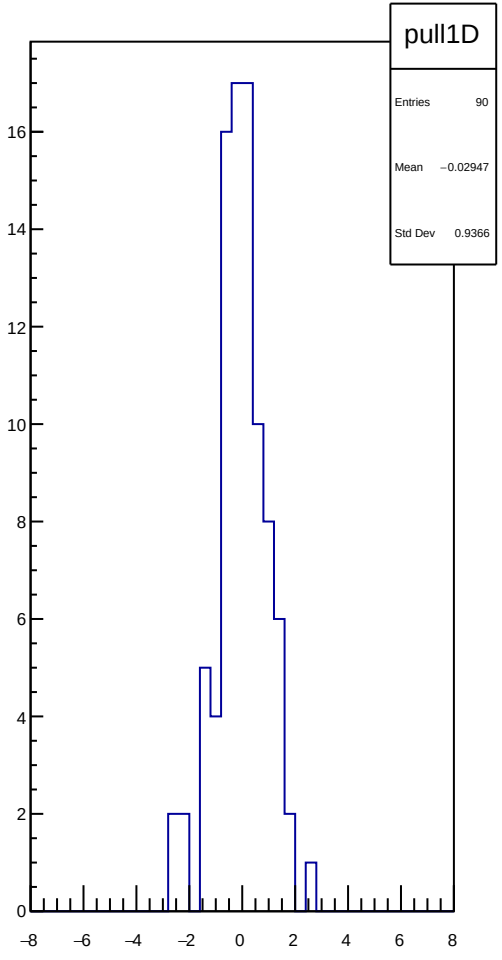

asym_usl_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 91.32 / 89
p0 0.01776 ± 0.1158
pull
Entries 90
Mean −15.21
Std Dev 0
pull1D
Entries 90
Mean −0.03374
Std Dev 1.007

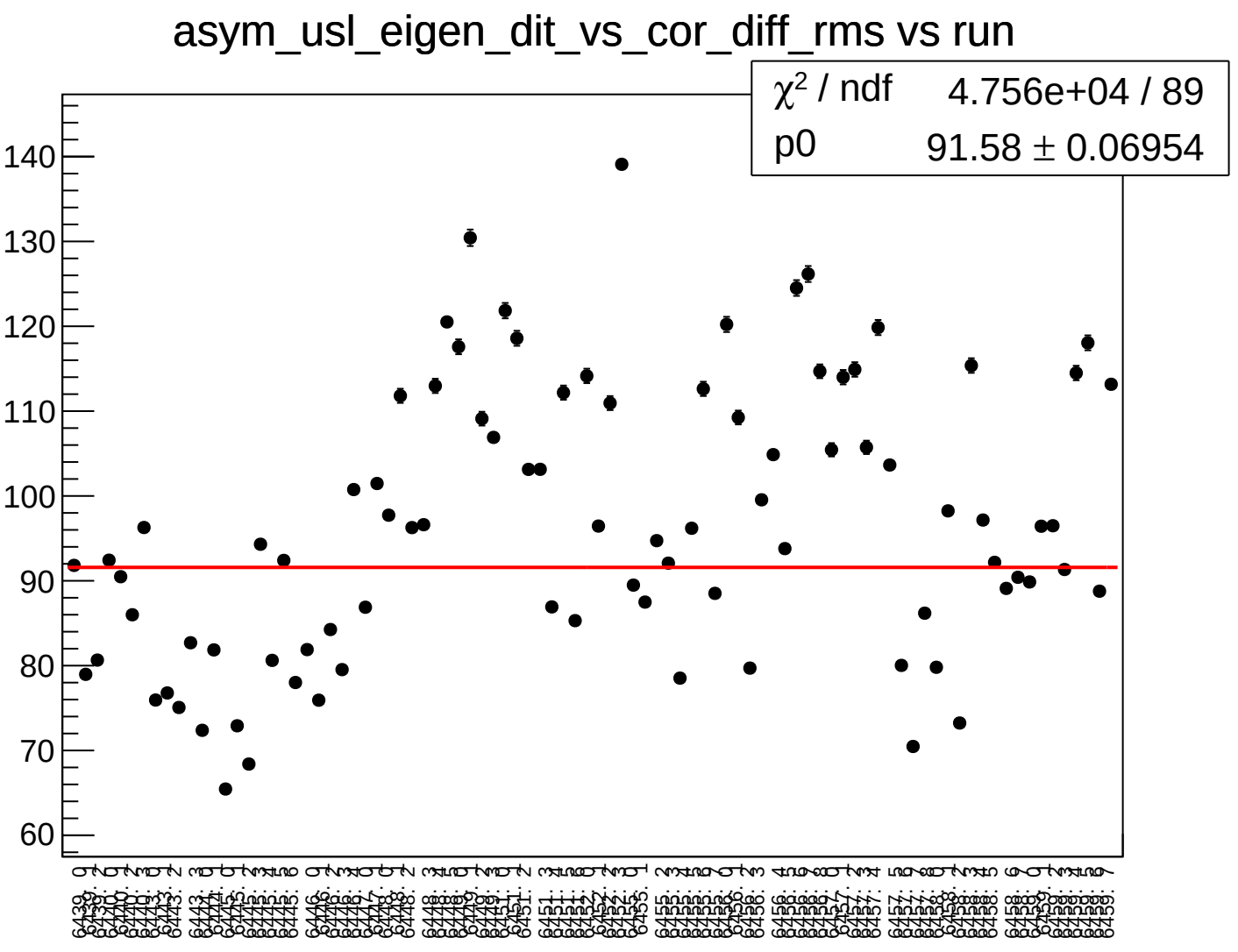

asym_usl_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.875e+04 / 89
p0 108.4 ± 0.08189
160
150
140
130
120
110
100
90
80
70

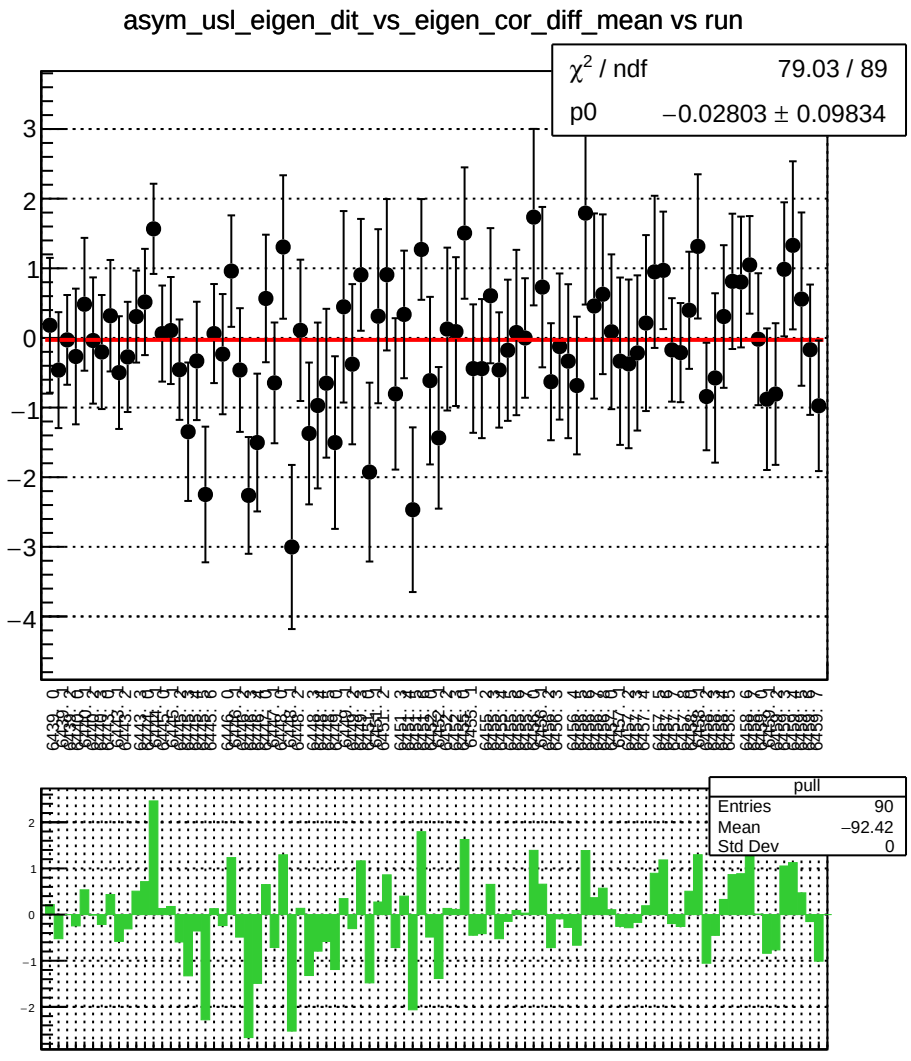

asym_usl_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 71.47 / 89
p0 −7.576e−06 ± 2.853e−06
pull
Entries 90
Mean −279.9
Std Dev 0
pull1D
Entries 90
Mean −0.004776
Std Dev 0.8911

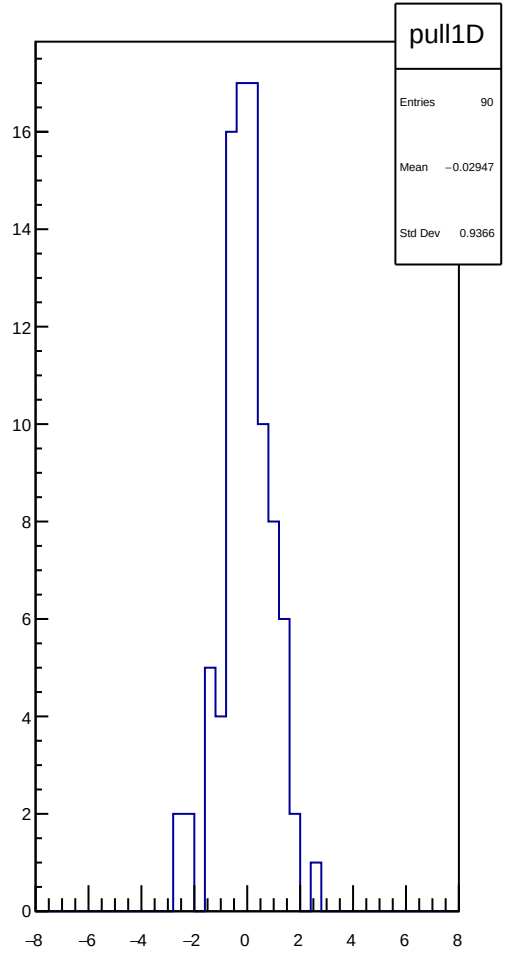

asym_usl_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.193e+04 / 89
p0 0.002677 ± 2.017e−06
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022

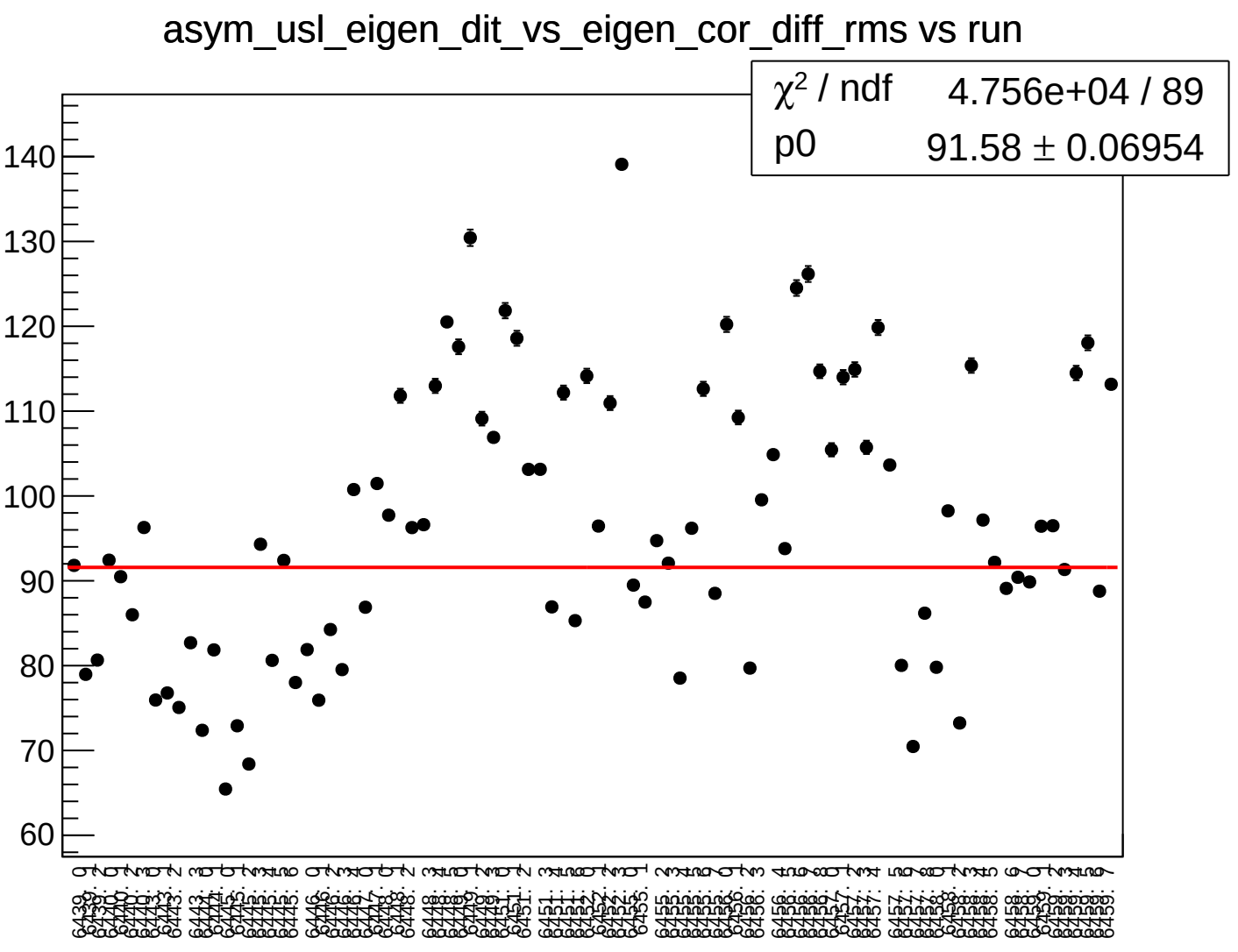

asym_usl_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.03 / 89
p0 −0.02803 ± 0.09834
pull
Entries 90
Mean −92.42
Std Dev 0

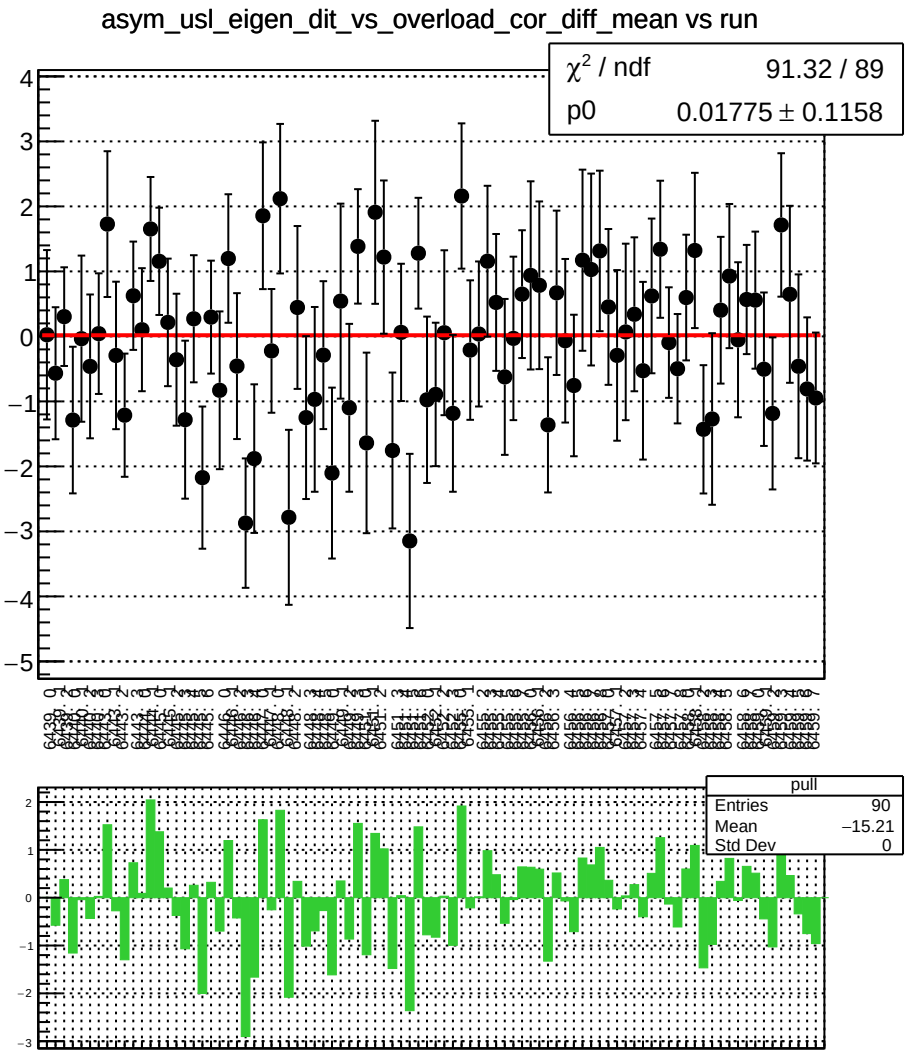

pull1D
Entries 90
Mean −0.02947
Std Dev 0.9366

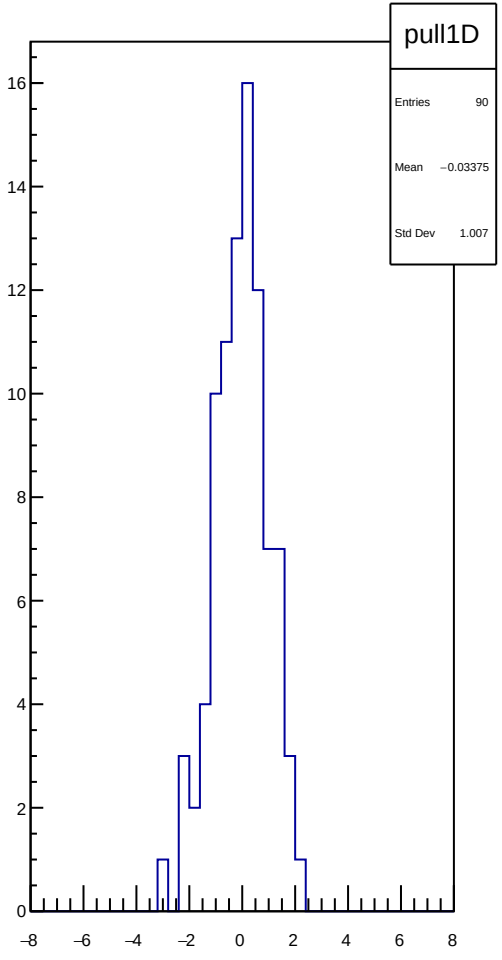

asym_usl_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.756e+04 / 89
p0 91.58 ± 0.06954
140
130
120
110
100
90
80
70
60

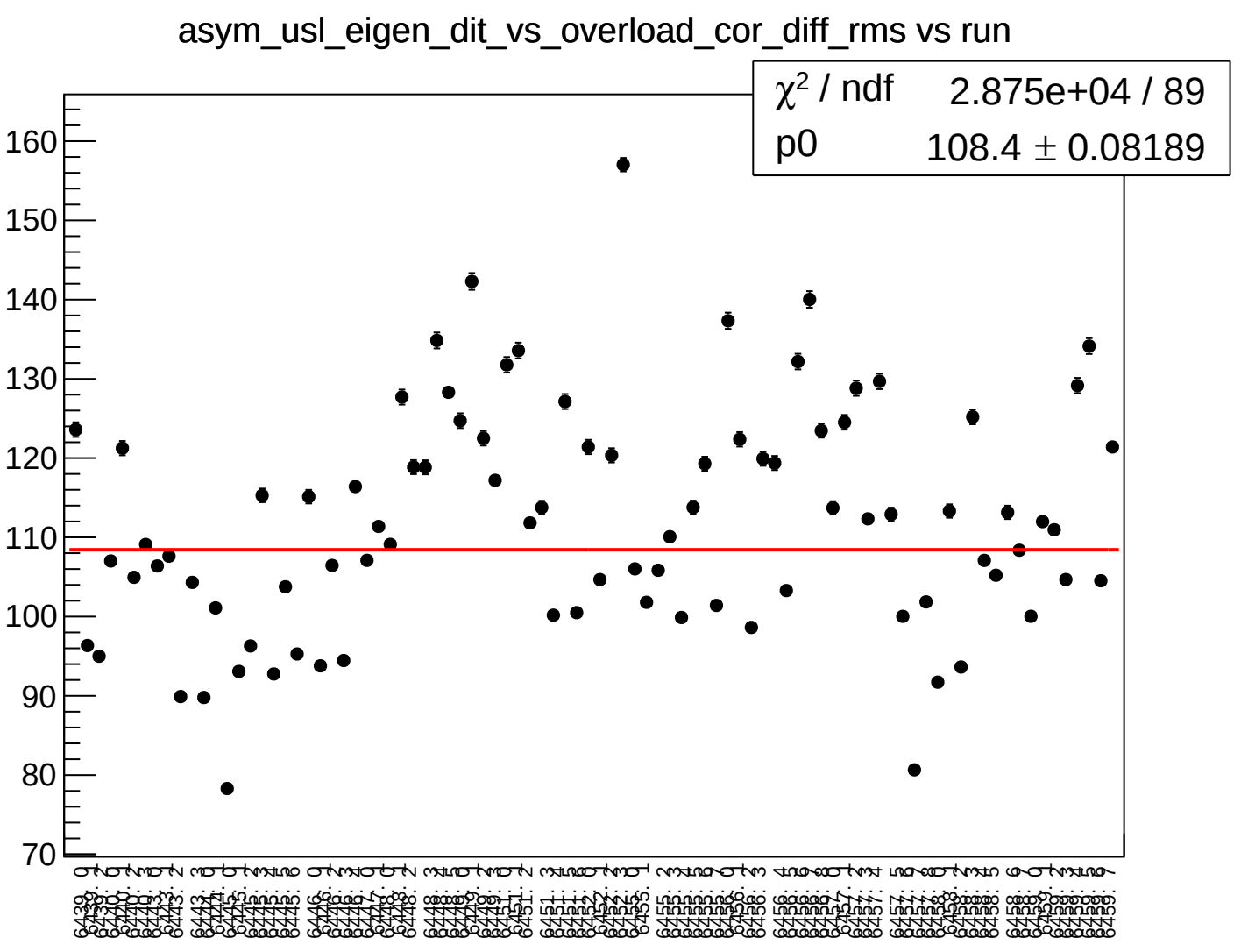

asym_usl_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.03 / 89
p0 −0.02803 ± 0.09834
pull
Entries 90
Mean −92.42
Std Dev 0

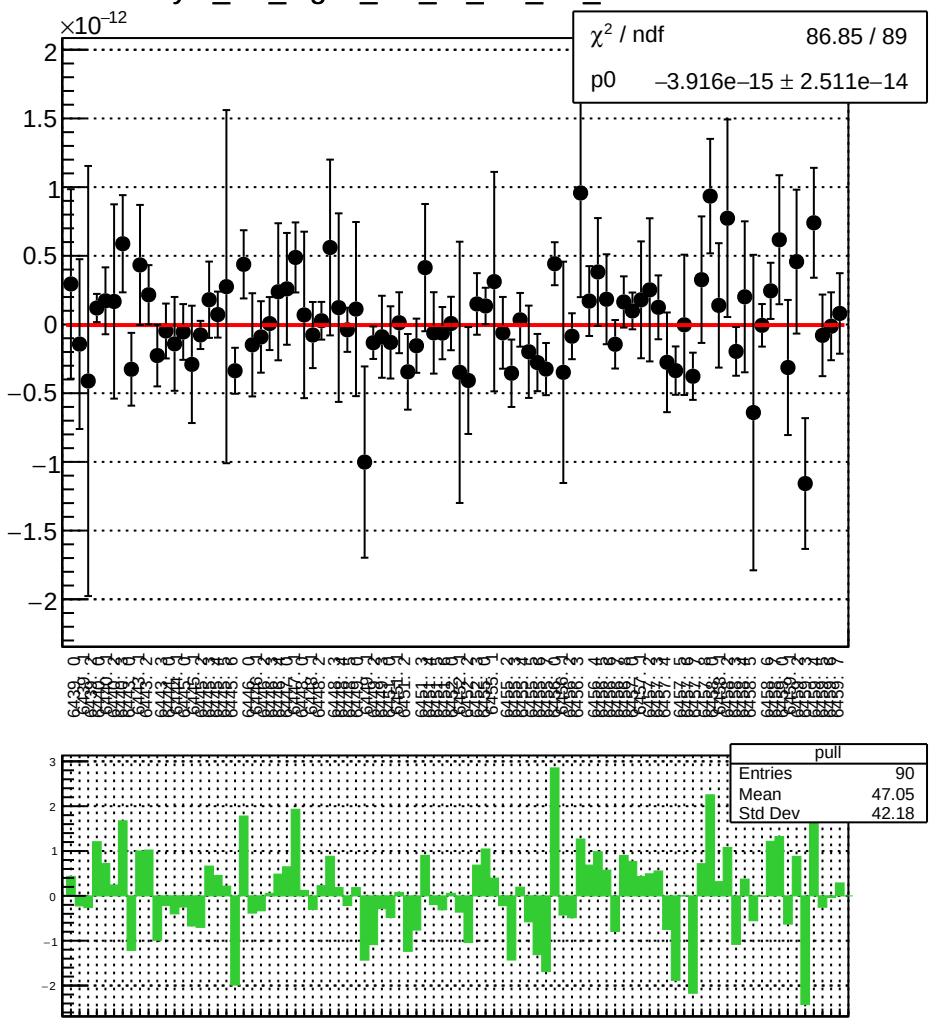

pull1D
Entries 90
Mean −0.02947
Std Dev 0.9366

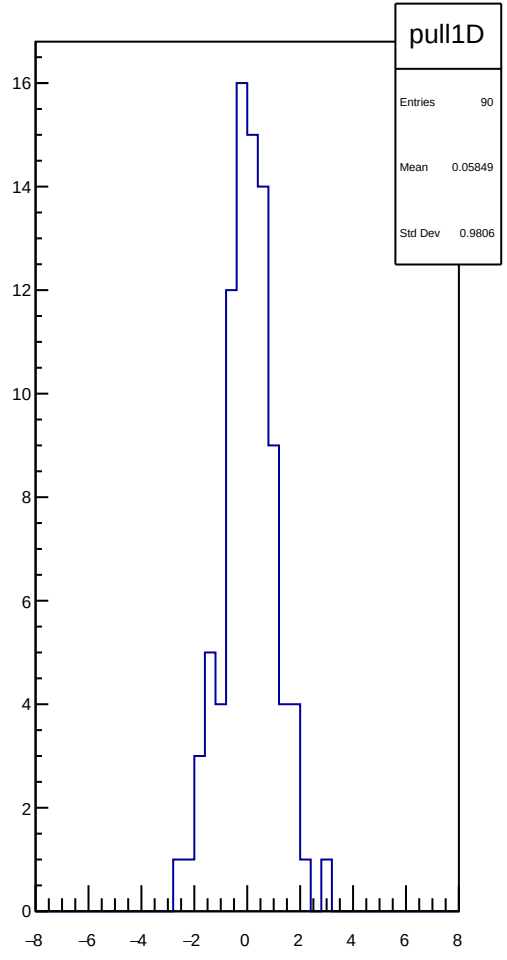

asym_usl_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.756e+04 / 89
p0 91.58 ± 0.06954
140
130
120
110
100
90
80
70
60

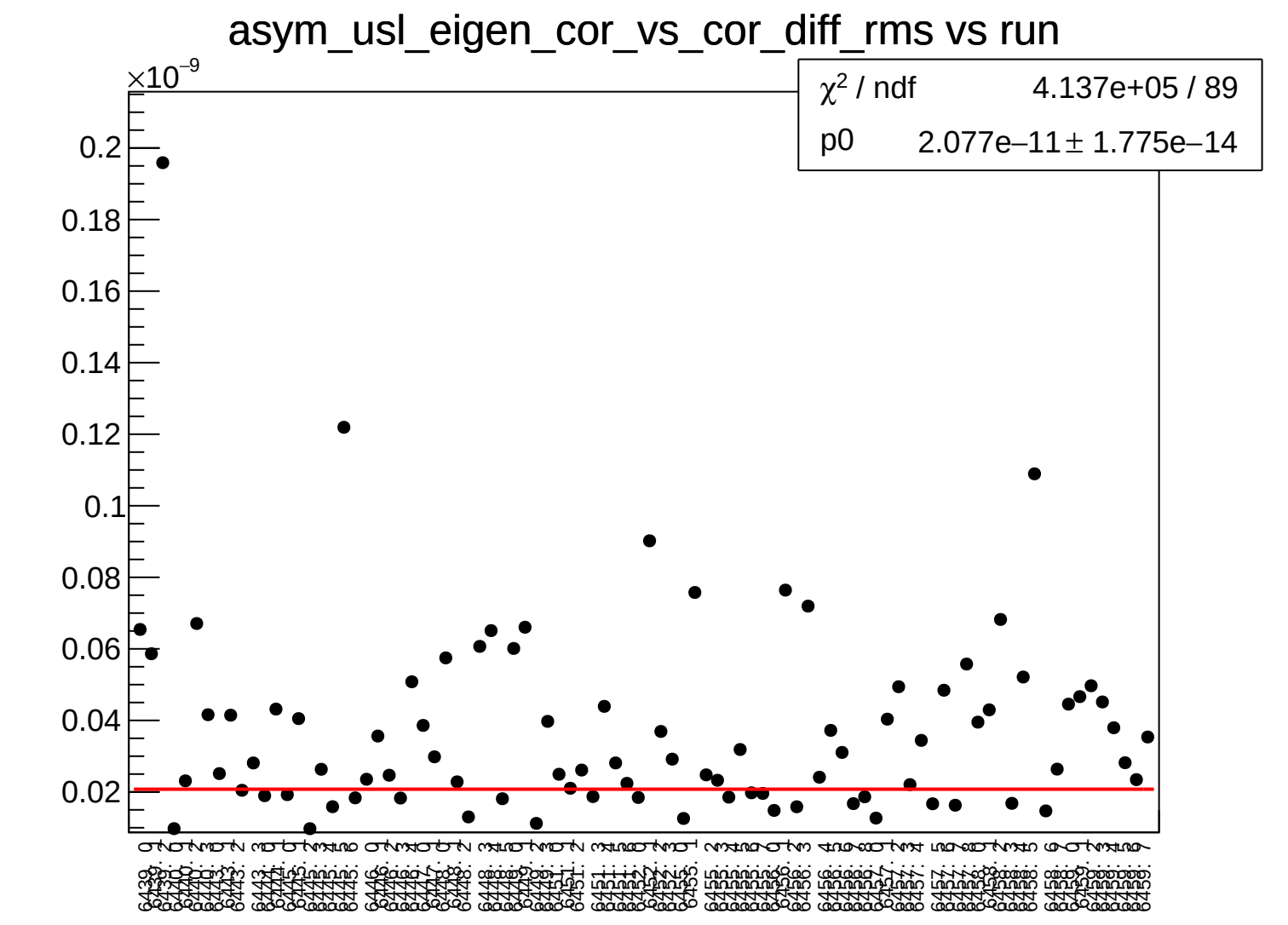

asym_usl_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 91.32 / 89
p0 0.01775 ± 0.1158
pull
Entries 90
Mean −15.21
Std Dev 0

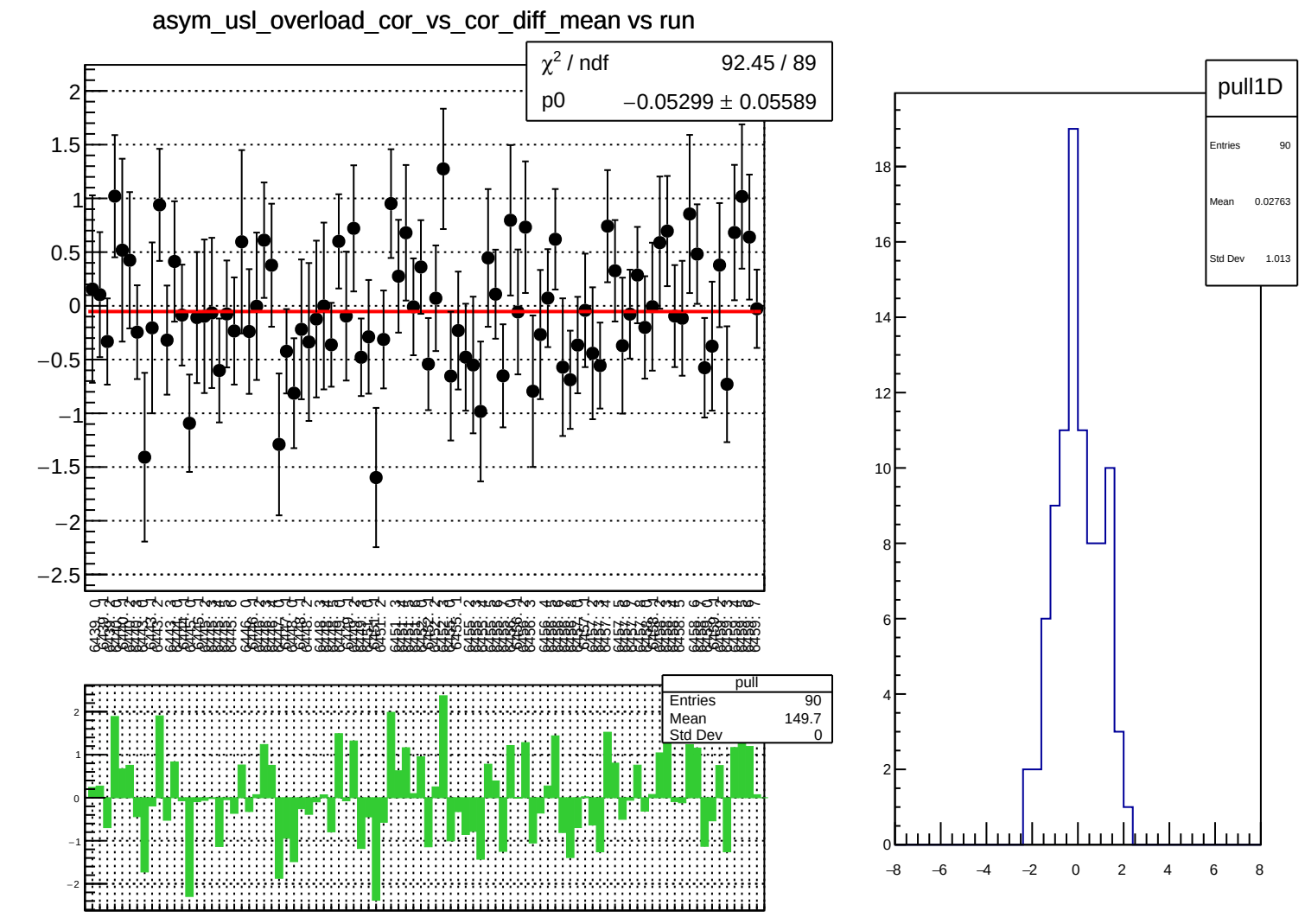

pull1D
Entries 90
Mean −0.03375
Std Dev 1.007

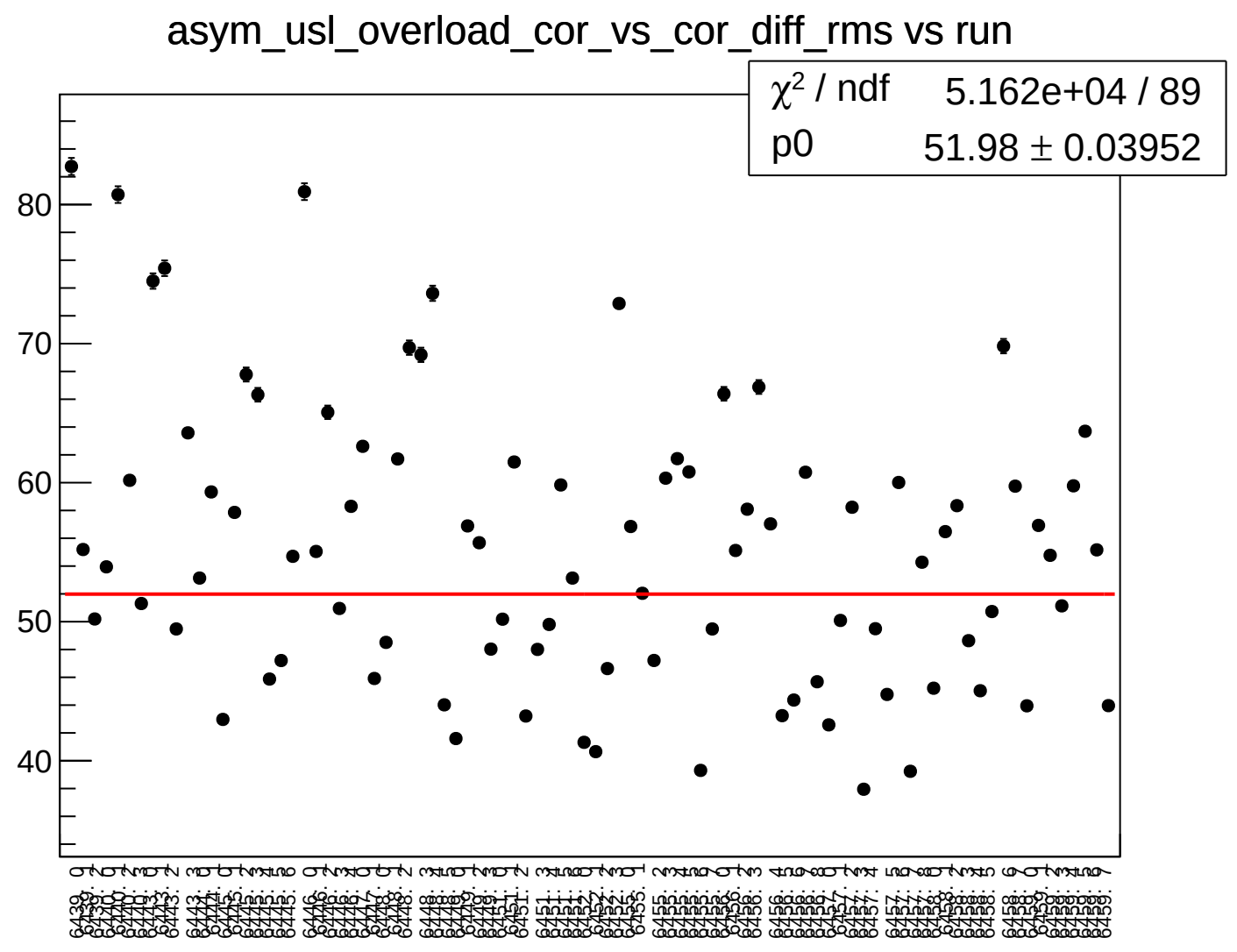

asym_usl_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.875e+04 / 89
p0 108.4 ± 0.08189
160
150
140
130
120
110
100
90
80
70

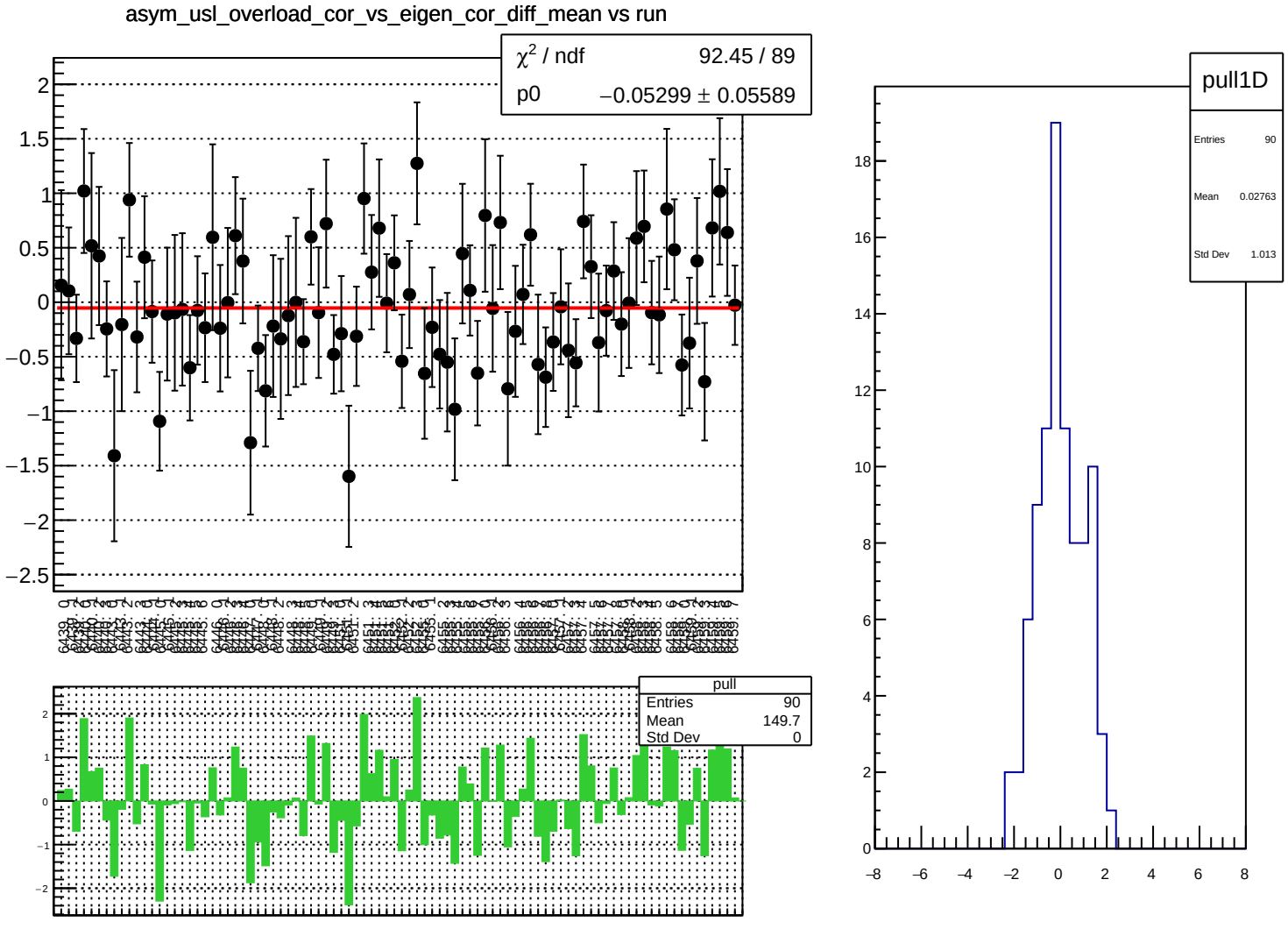

asym_usl_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.85 / 89
p0 −3.916e−15 ± 2.511e−14
pull
Entries 90
Mean 47.05
Std Dev 42.18

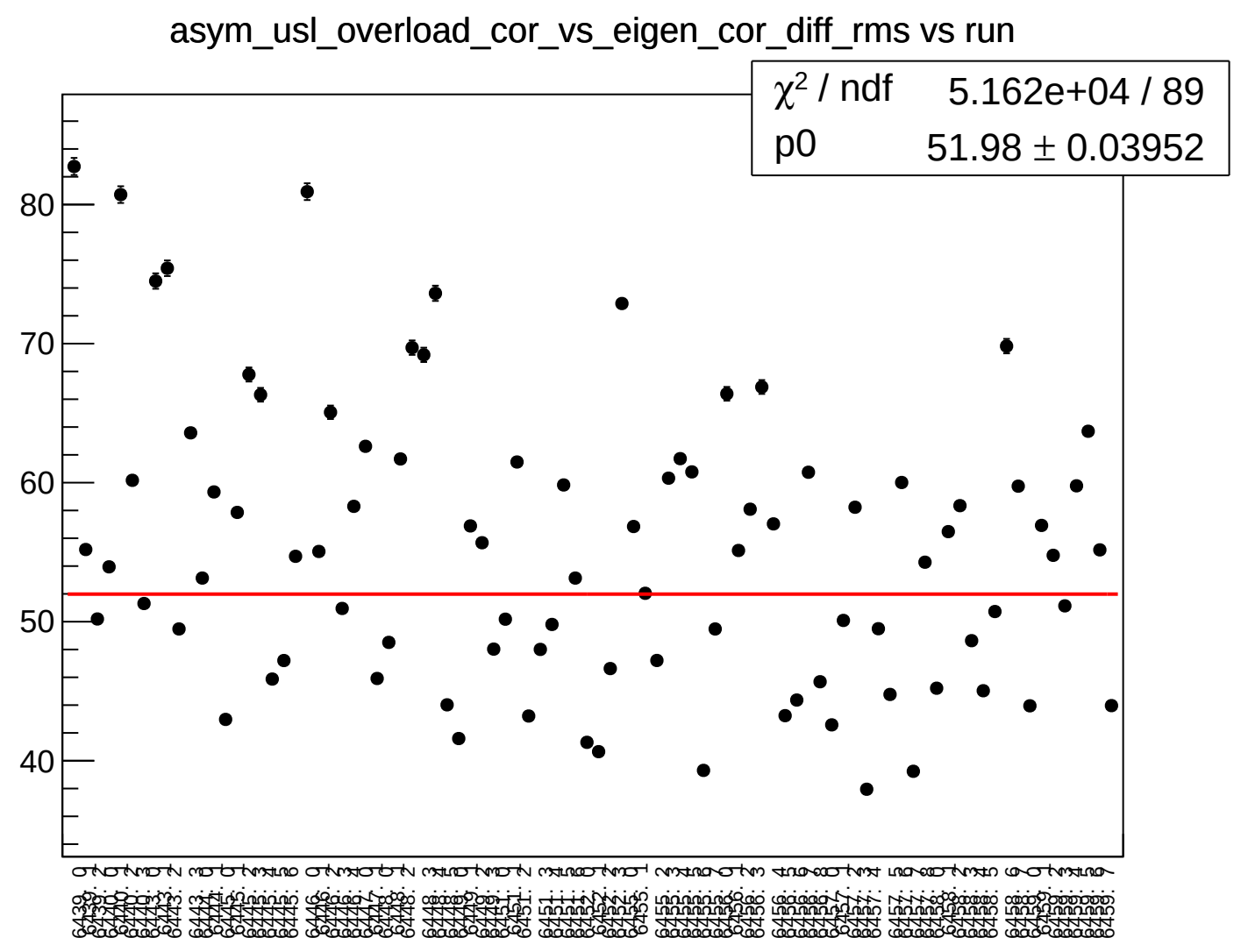

pull1D
Entries 90
Mean 0.05849
Std Dev 0.9806

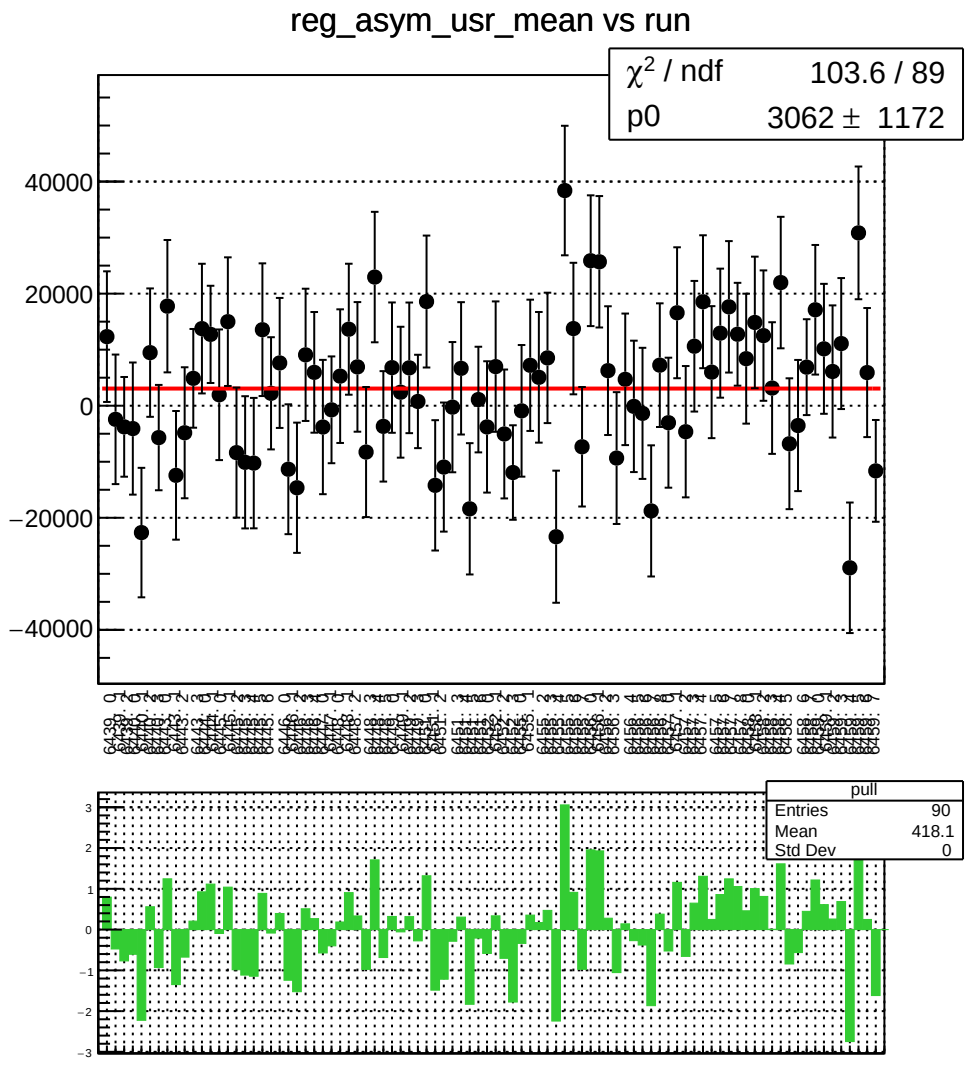

asym_usl_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.137e+05 / 89
p0 2.077e−11 ± 1.775e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

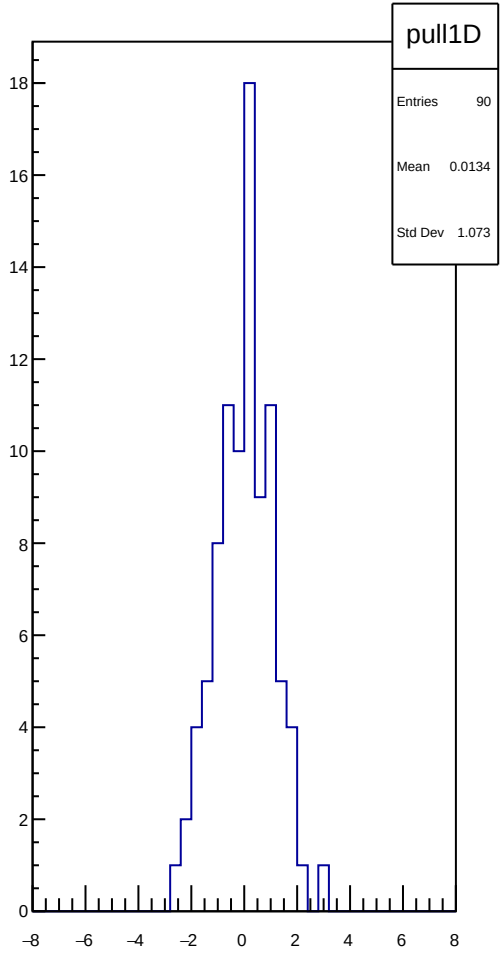

asym_usl_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 92.45 / 89
p0 −0.05299 ± 0.05589
pull
Entries 90
Mean 149.7
Std Dev 0
pull1D
Entries 90
Mean 0.02763
Std Dev 1.013

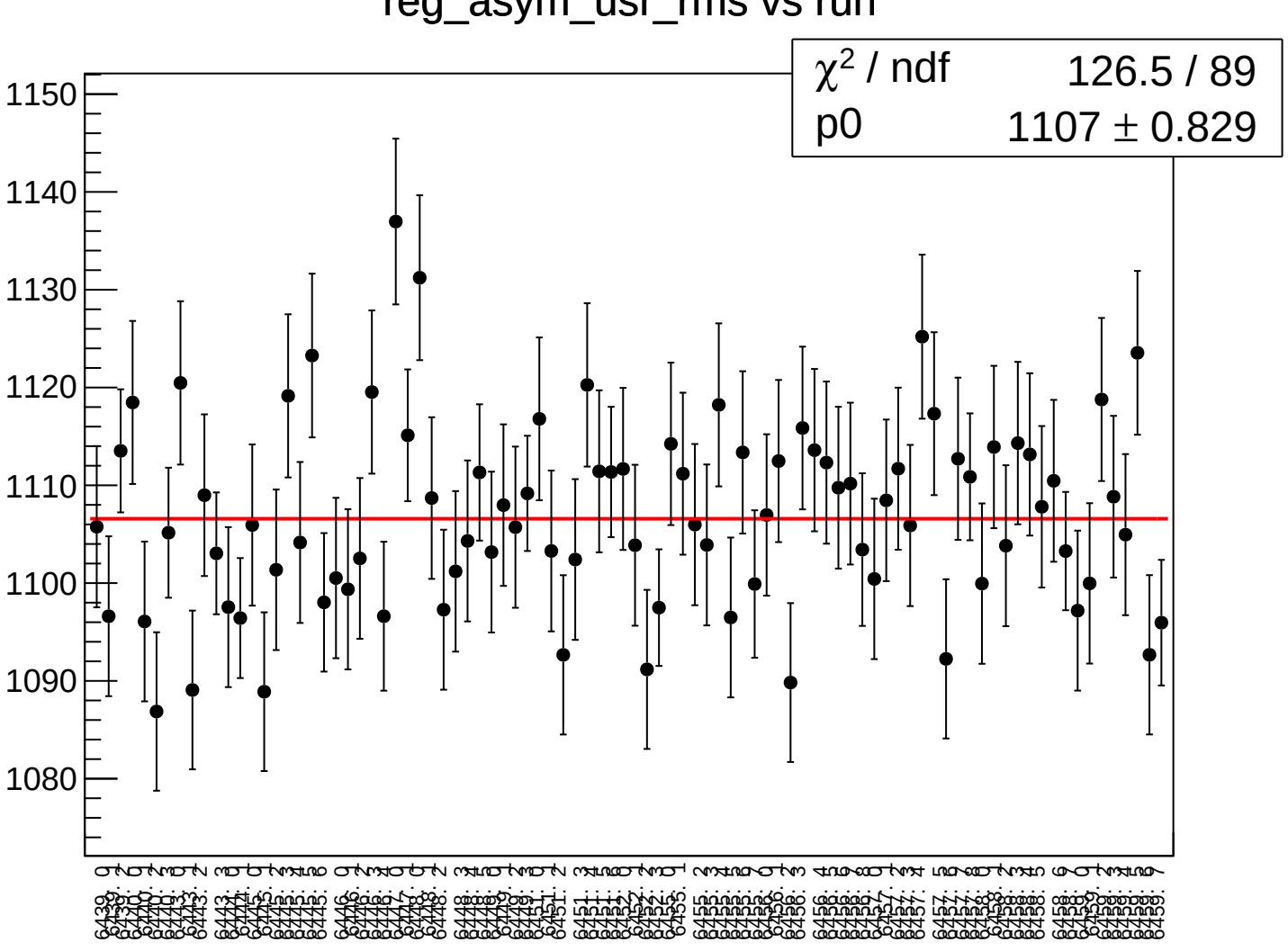

asym_usl_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 5.162e+04 / 89
p0 51.98 ± 0.03952
80
70
60
50
40

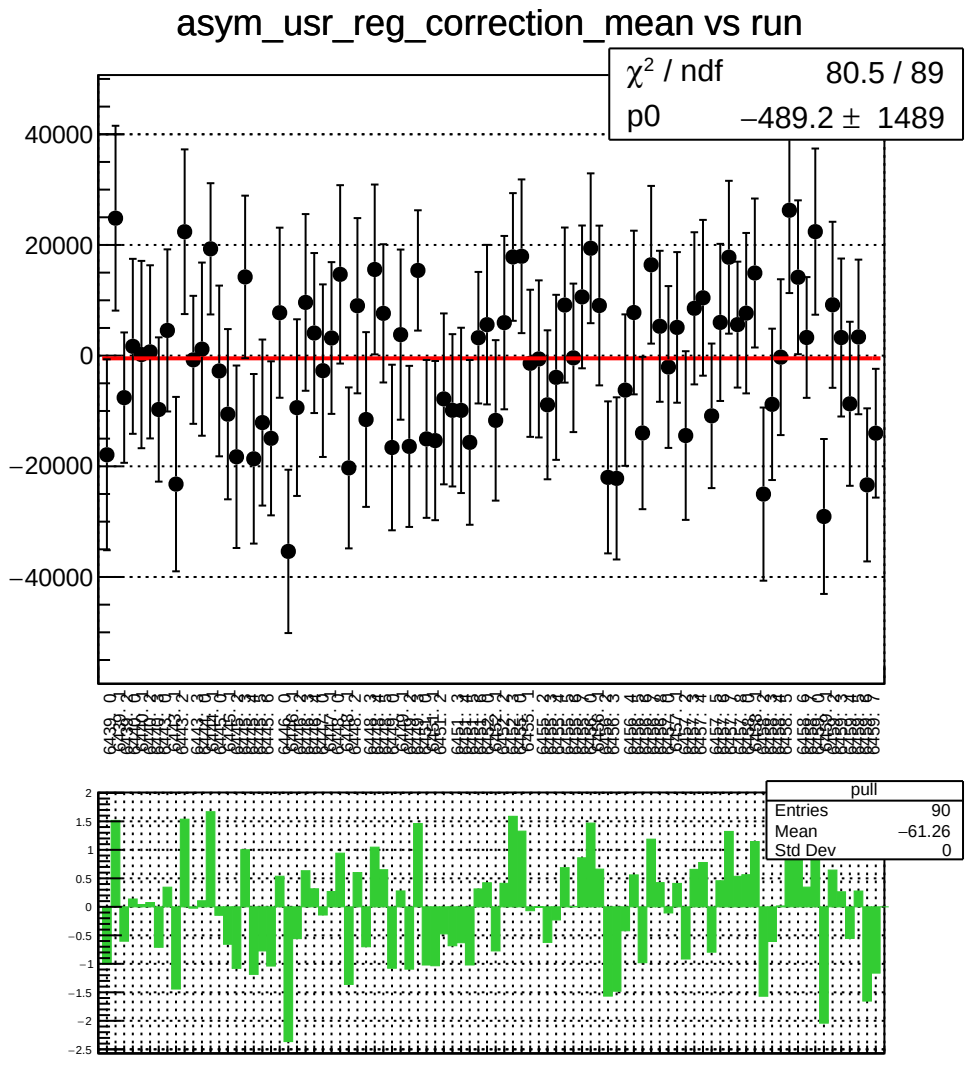

asym_usl_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.45 / 89
p0 −0.05299 ± 0.05589
pull
Entries 90
Mean 149.7
Std Dev 0
pull1D
Entries 90
Mean 0.02763
Std Dev 1.013

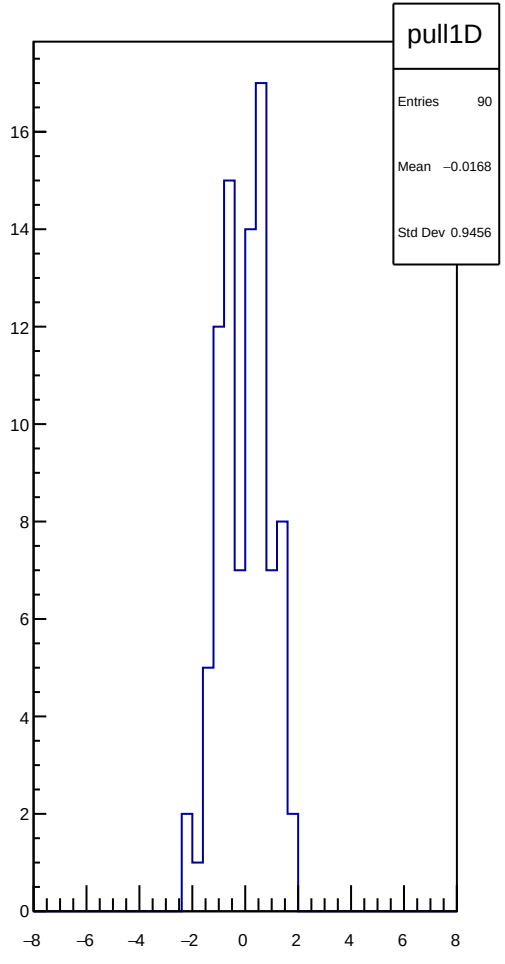

asym_usl_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.162e+04 / 89
p0 51.98 ± 0.03952
80
70
60
50
40


reg_asym_usr_mean vs run
χ² / ndf 103.6 / 89
p0 3062 ± 1172
40000
20000
0
−20000
−40000
pull
Entries 90
Mean 418.1
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 90
Mean 0.0134
Std Dev 1.073
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_usr_rms vs run
χ² / ndf 126.5 / 89
p0 1107 ± 0.829
1150
1140
1130
1120
1110
1100
1090
1080


asym_usr_reg_correction_mean vs run
χ² / ndf 80.5 / 89
p0 −489.2 ± 1489
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −61.26
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 90
Mean −0.0168
Std Dev 0.9456
16
14
12
10
8
6
4
2
0
−8
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−4
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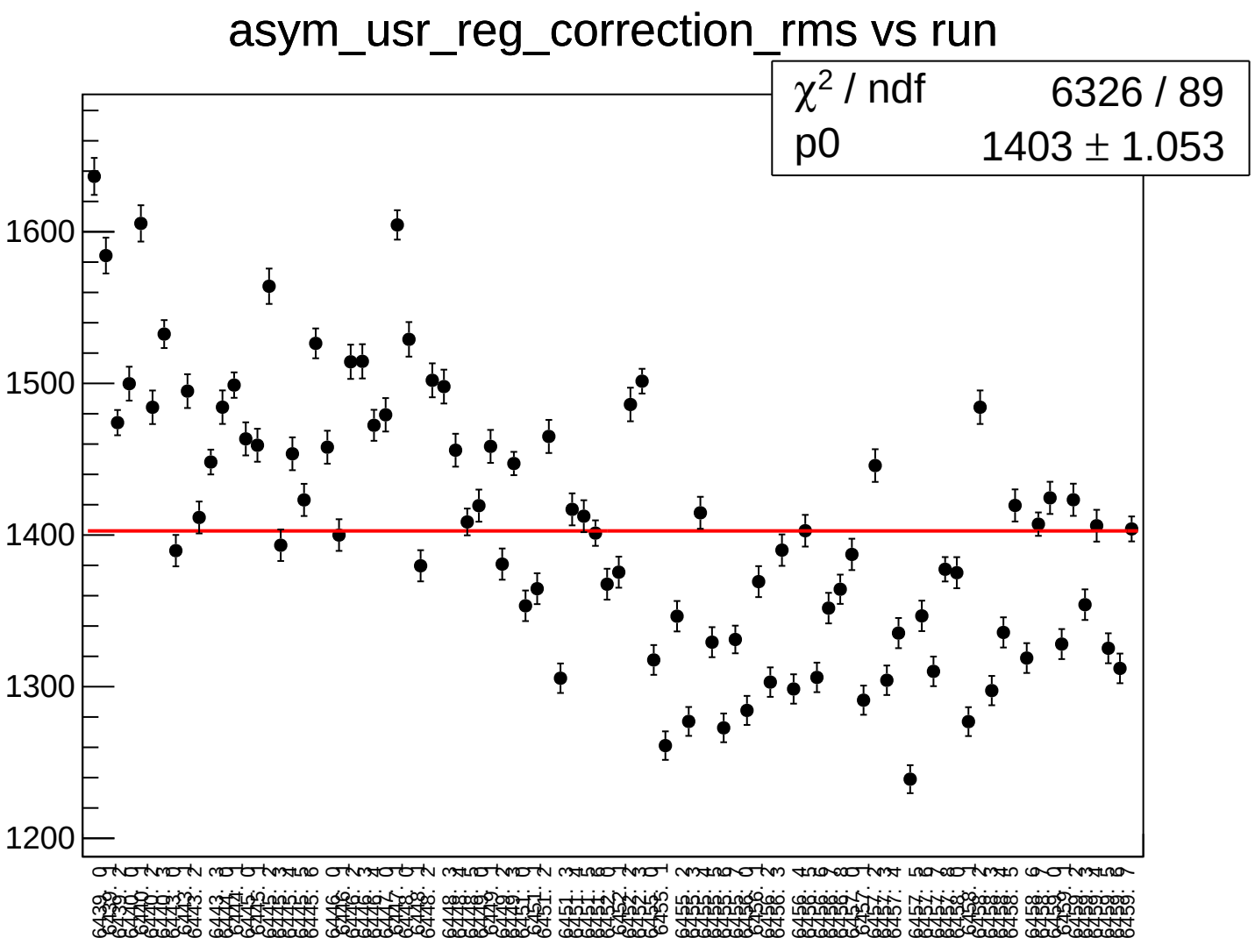
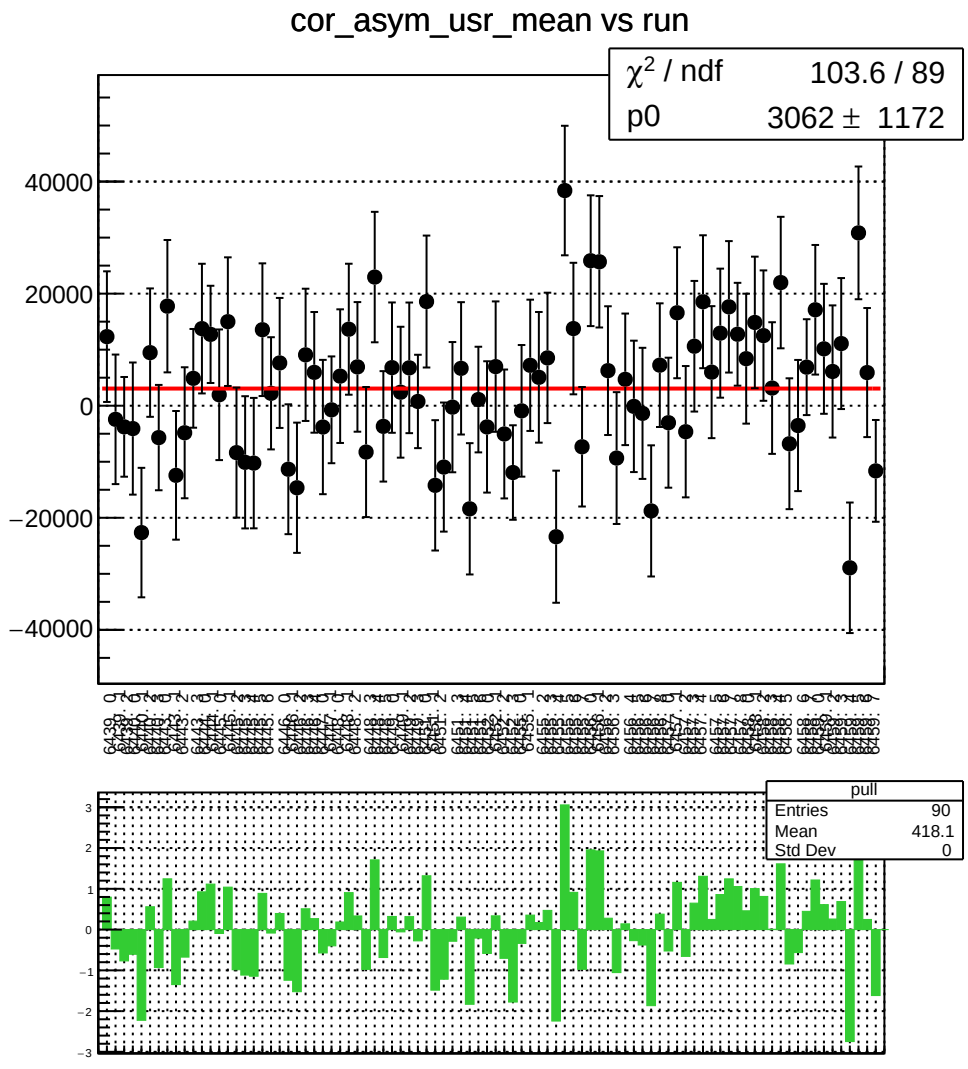
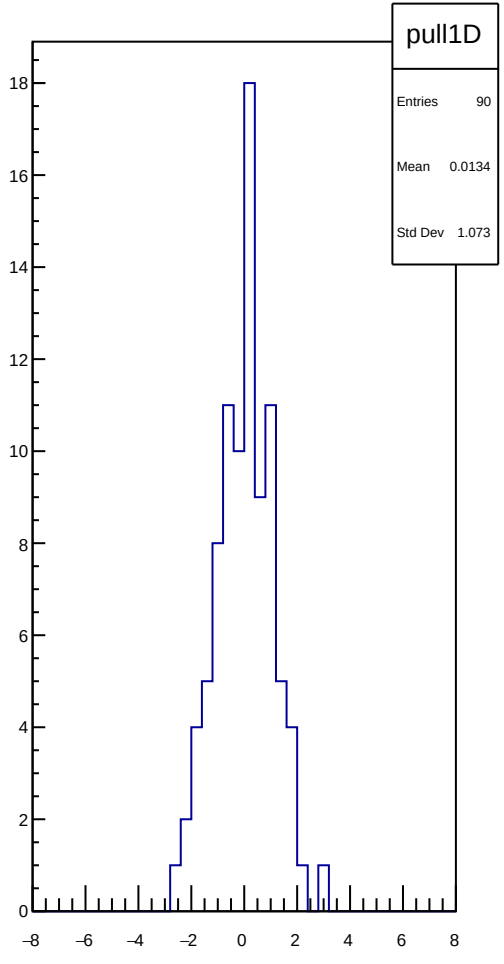
0
2
4
6
8


asym_usr_reg_correction_rms vs run
χ² / ndf 6326 / 89
p0 1403 ± 1.053
1600
1500
1400
1300
1200


cor_asym_usr_mean vs run
χ² / ndf 103.6 / 89
p0 3062 ± 1172
40000
20000
0
−20000
−40000
pull
Entries 90
Mean 418.1
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 90
Mean 0.0134
Std Dev 1.073
18
16
14
12
10
8
6
4
2
0
−8
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−4
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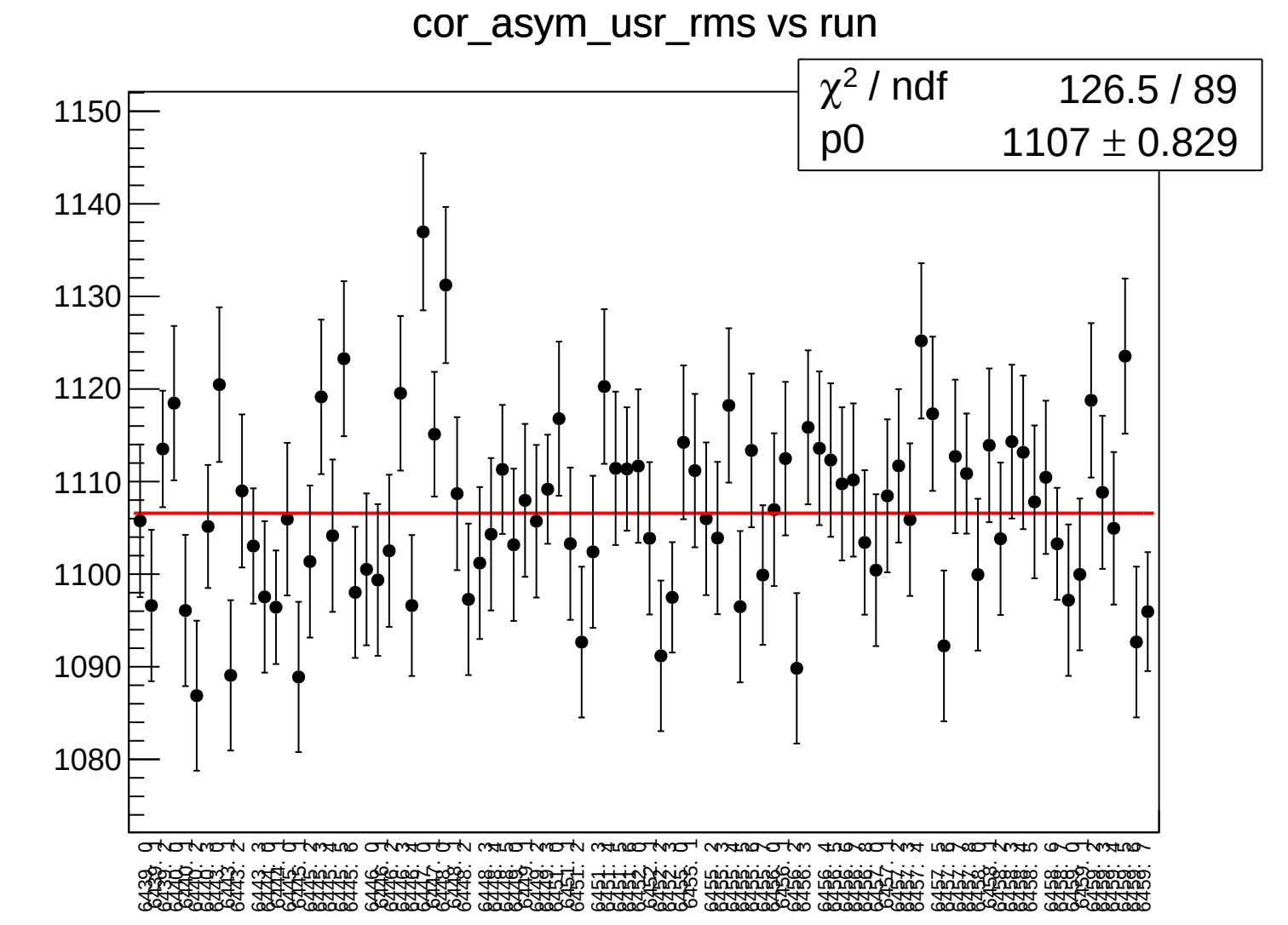
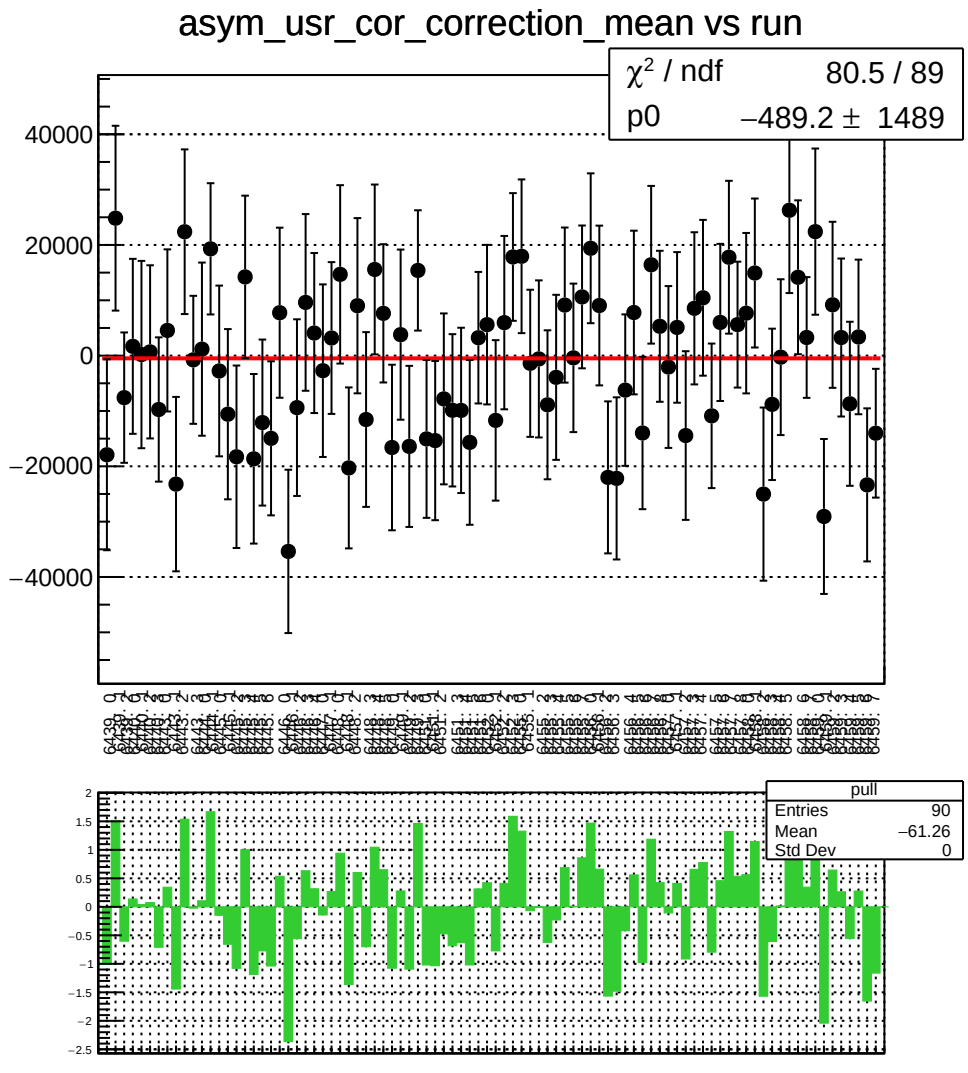
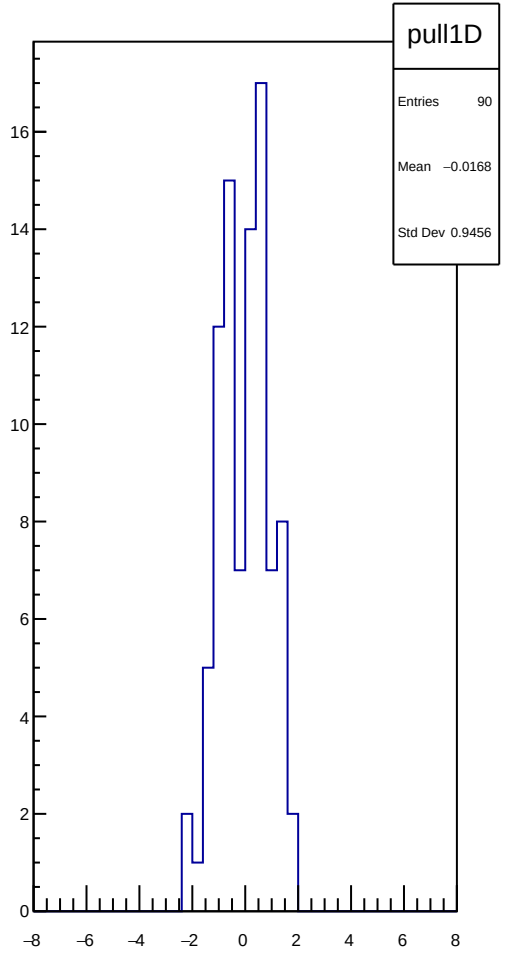
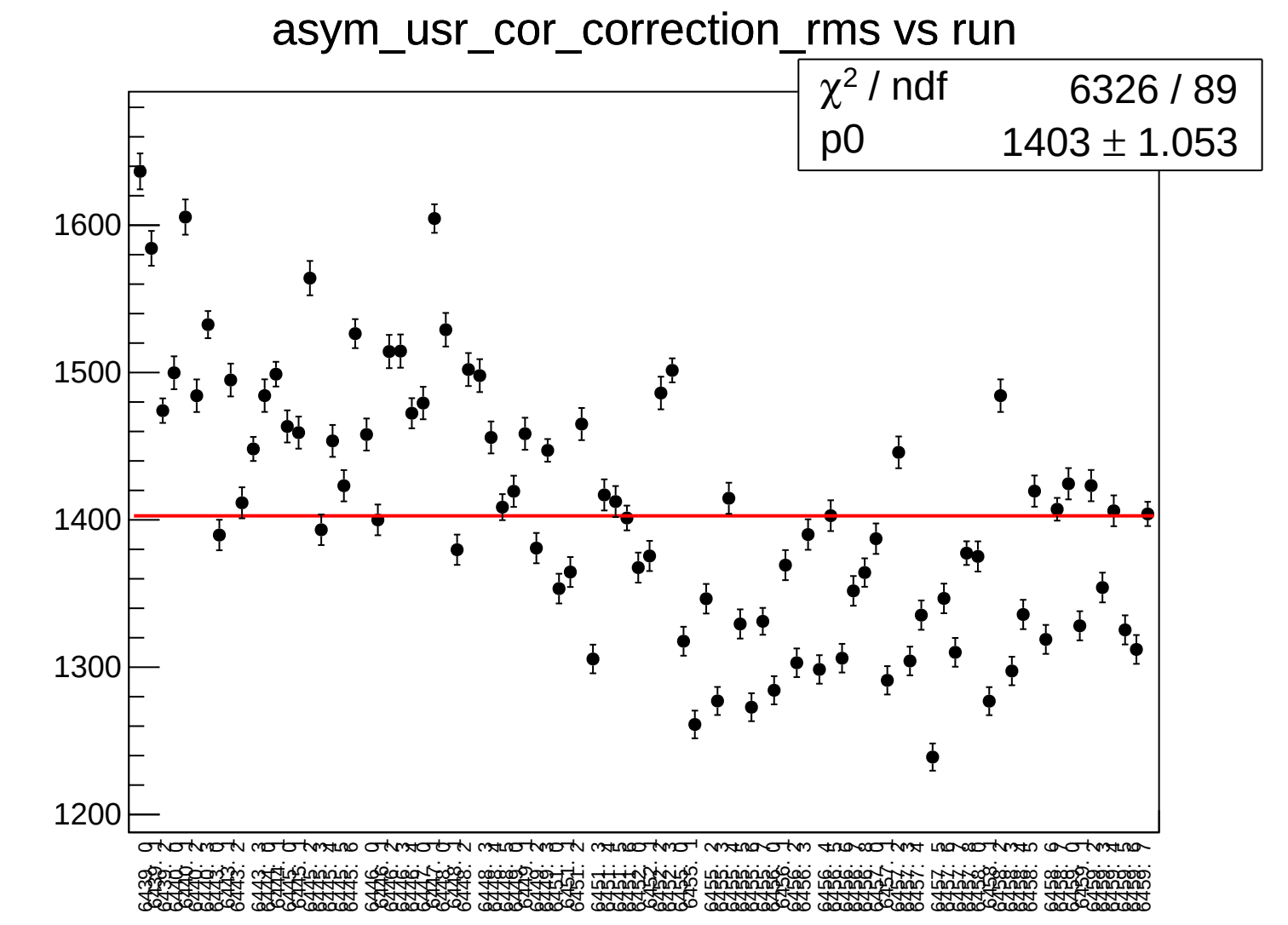
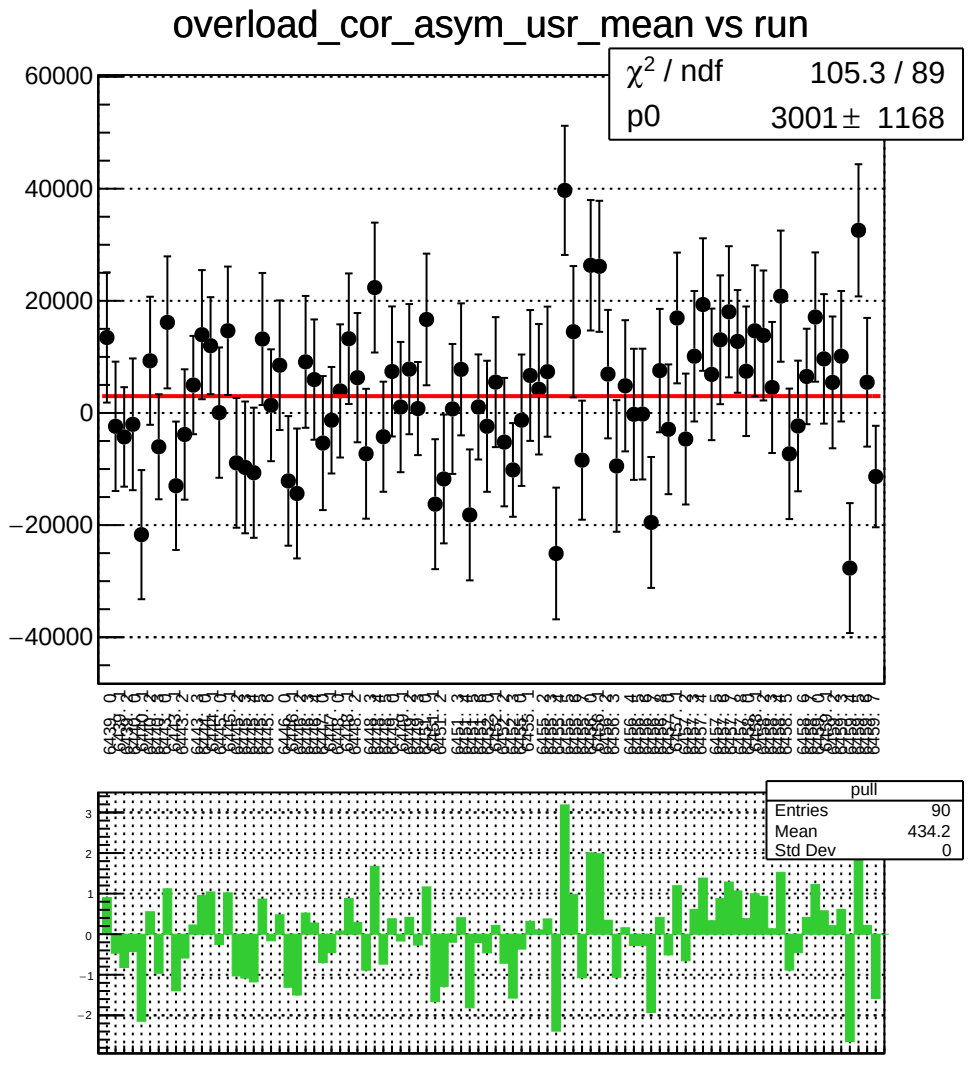
0
2
4
6
8

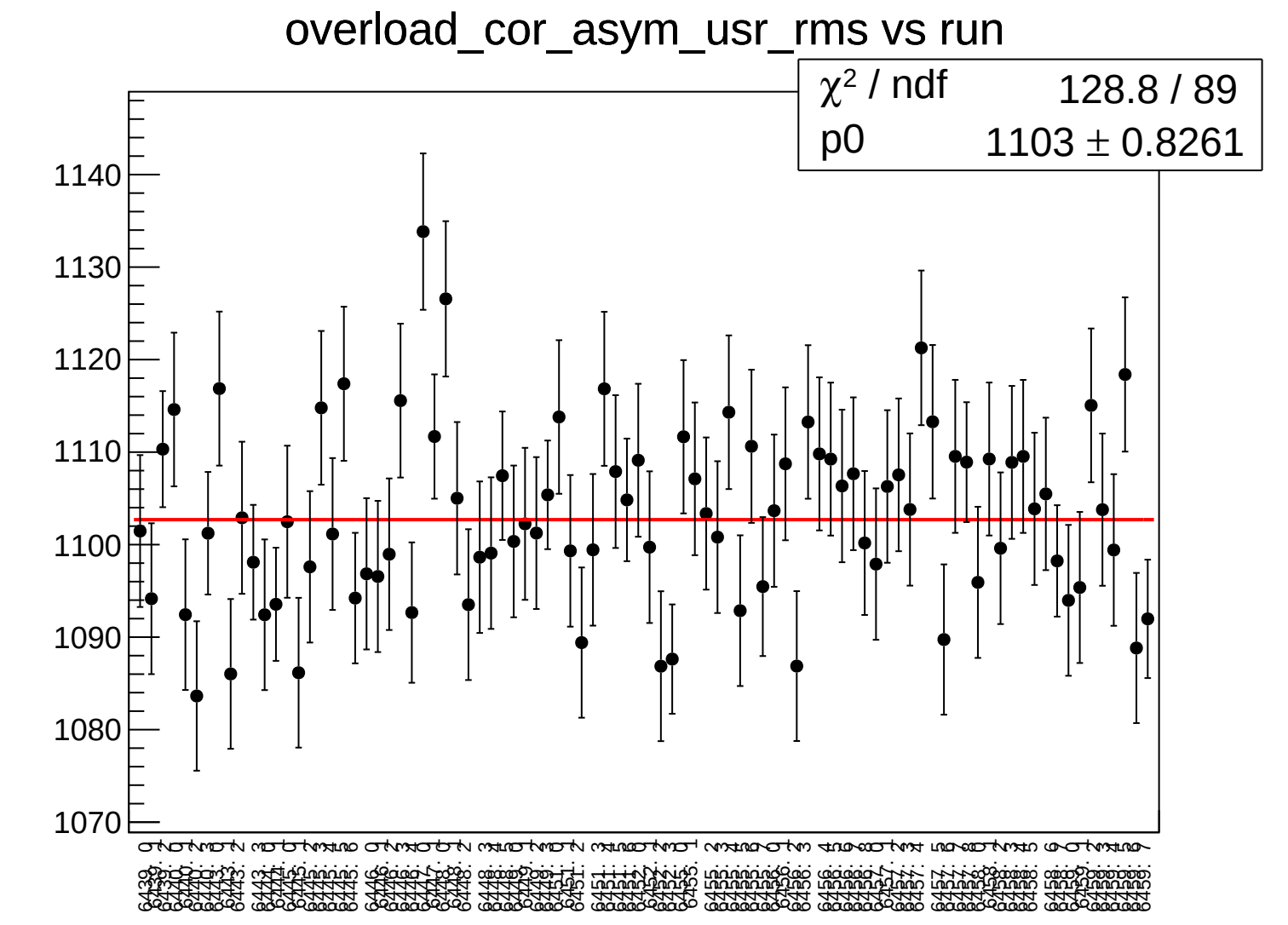

cor_asym_usr_rms vs run
χ² / ndf 126.5 / 89
p0 1107 ± 0.829
1150
1140
1130
1120
1110
1100
1090
1080

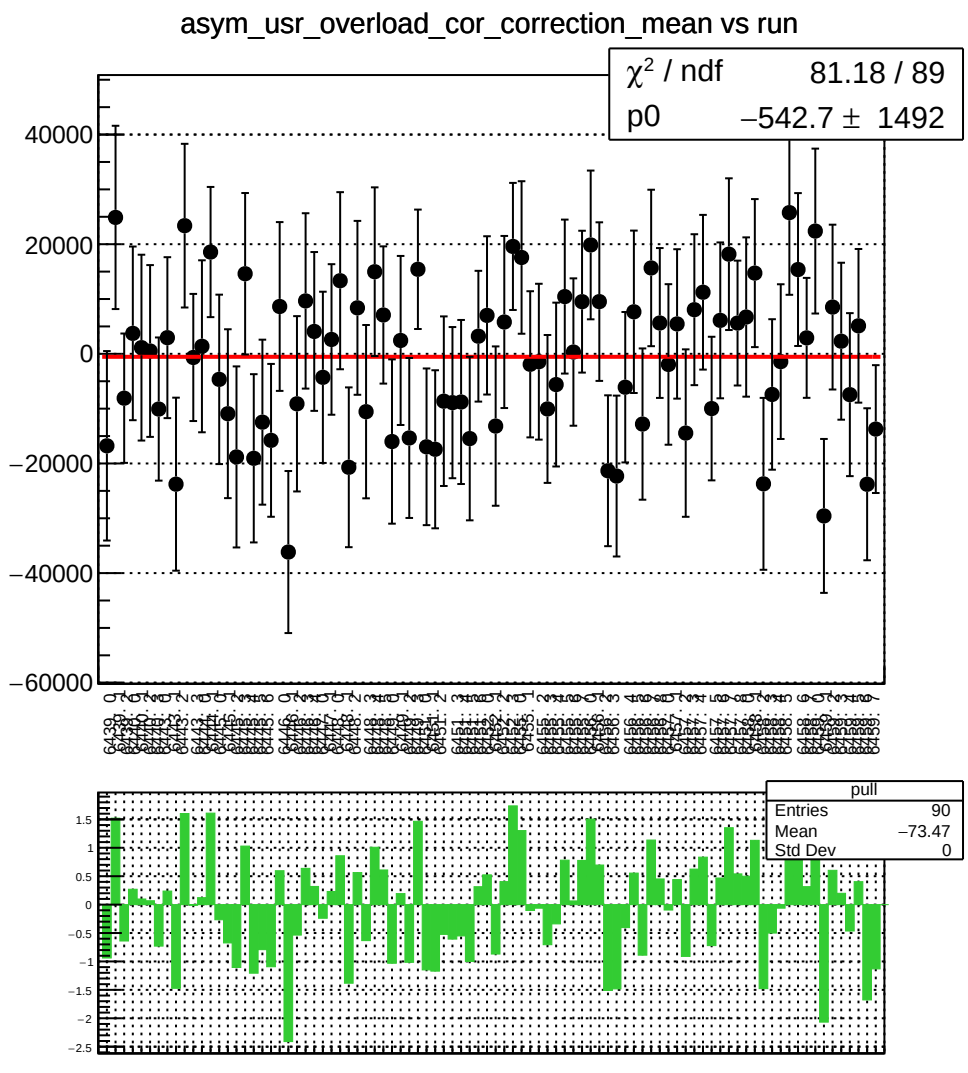

asym_usr_cor_correction_mean vs run
χ² / ndf 80.5 / 89
p0 −489.2 ± 1489
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −61.26
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

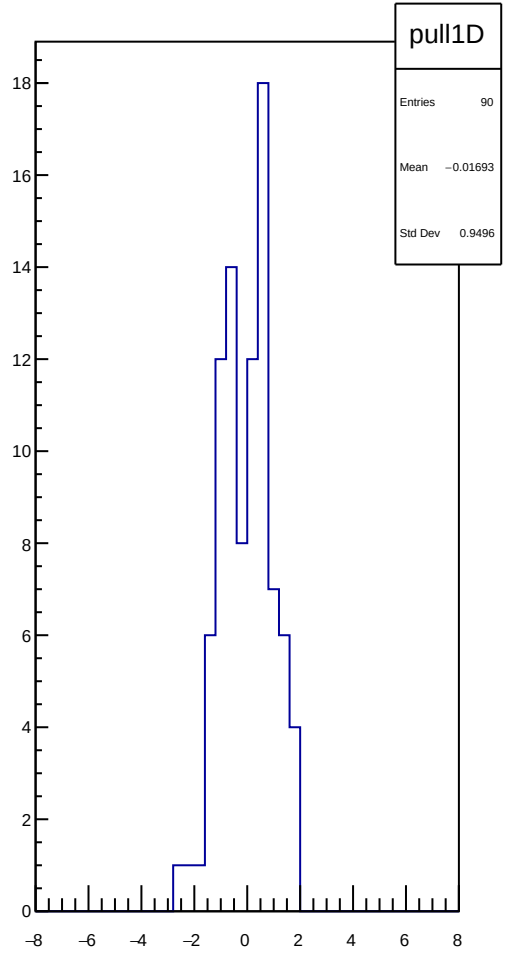

pull1D
Entries 90
Mean −0.0168
Std Dev 0.9456
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_cor_correction_rms vs run
χ² / ndf 6326 / 89
p0 1403 ± 1.053
1600
1500
1400
1300
1200


overload_cor_asym_usr_mean vs run
χ² / ndf 105.3 / 89
p0 3001 ± 1168
pull
Entries 90
Mean 434.2
Std Dev 0
pull1D
Entries 90
Mean 0.01357
Std Dev 1.082


overload_cor_asym_usr_rms vs run
χ² / ndf 128.8 / 89
p0 1103 ± 0.8261
1140
1130
1120
1110
1100
1090
1080
1070


asym_usr_overload_cor_correction_mean vs run
χ² / ndf 81.18 / 89
p0 −542.7 ± 1492
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −73.47
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 90
Mean −0.01693
Std Dev 0.9496
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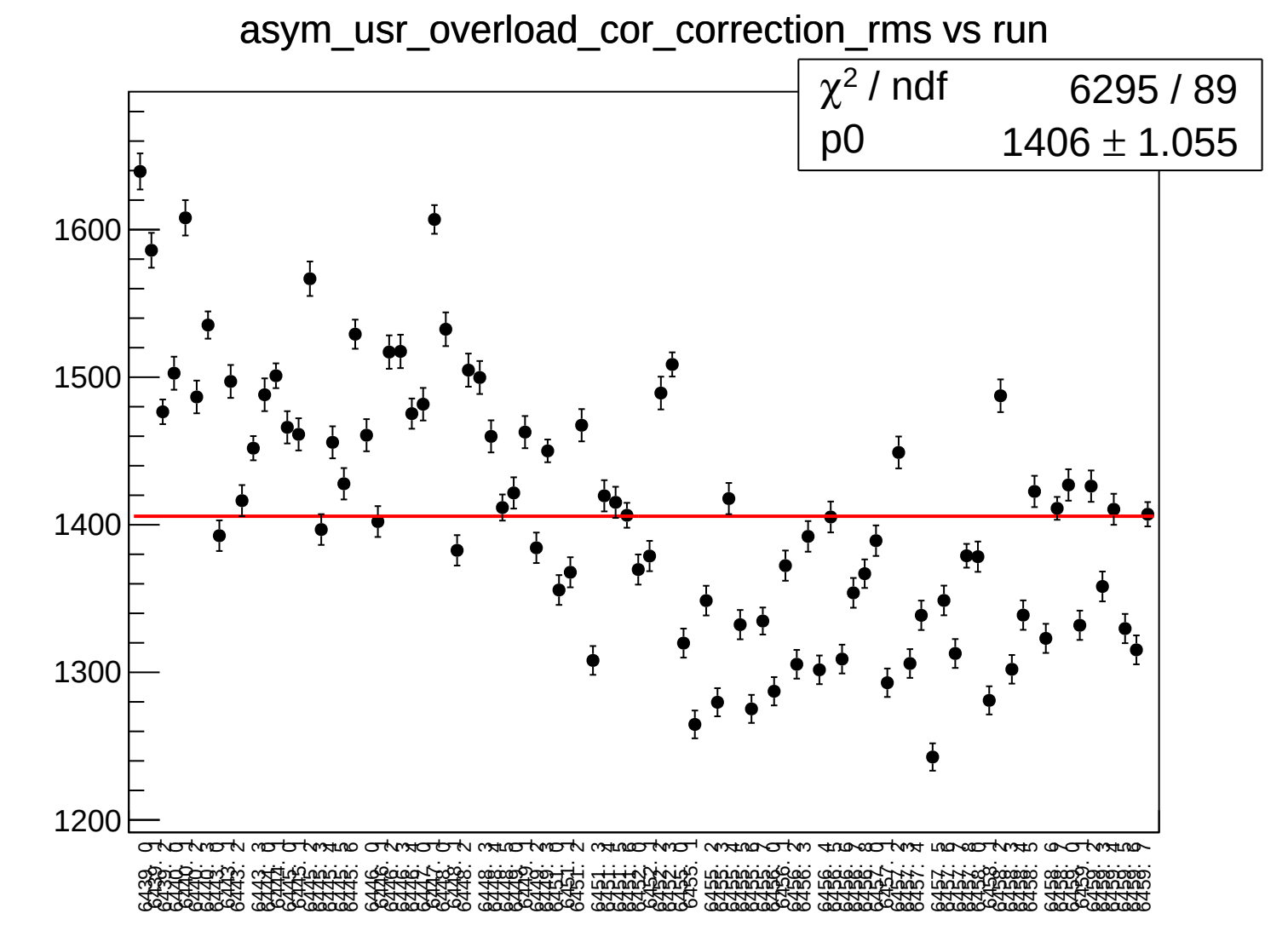
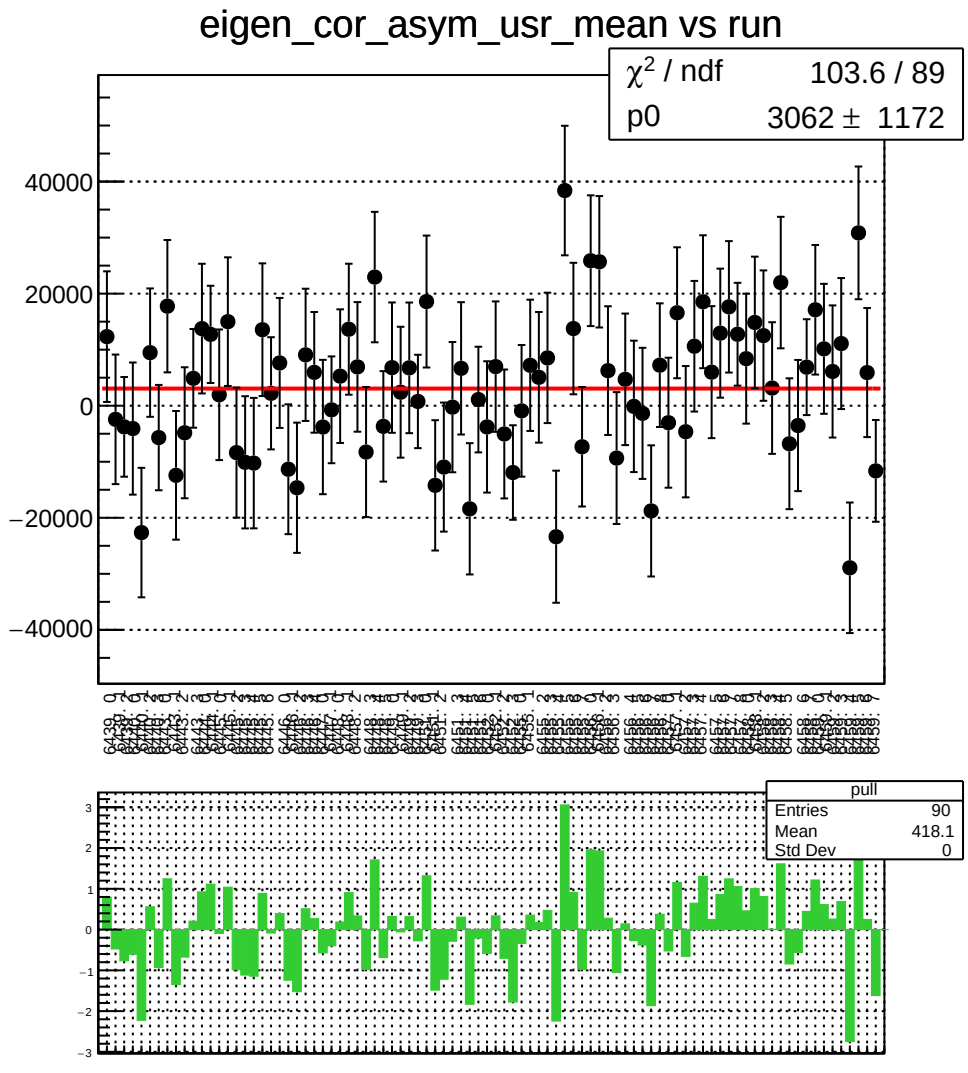
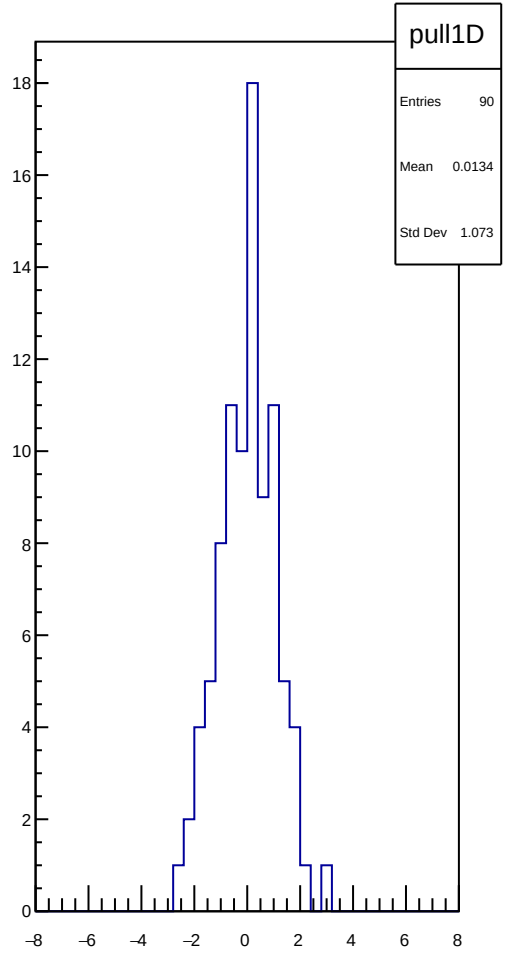
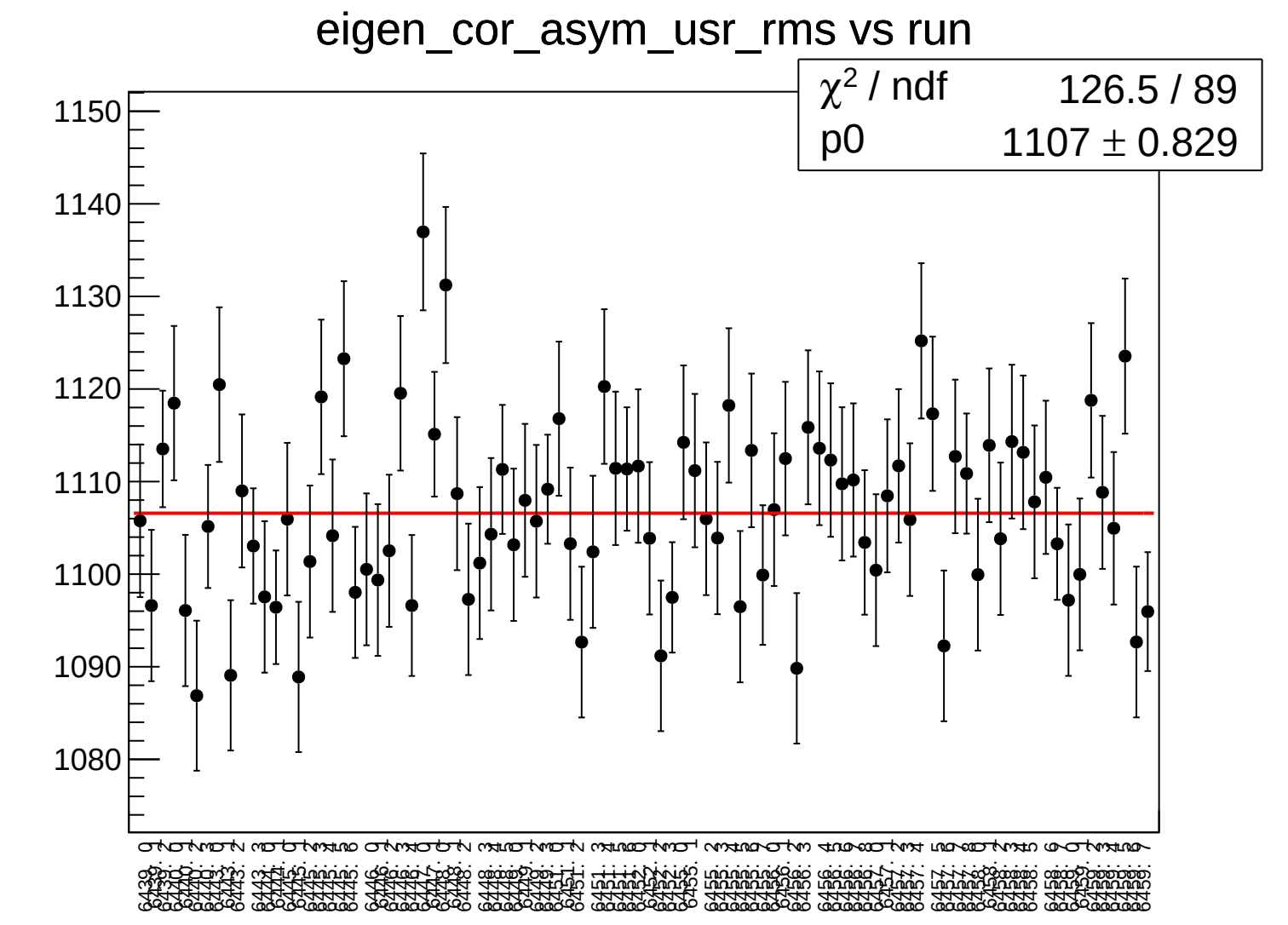
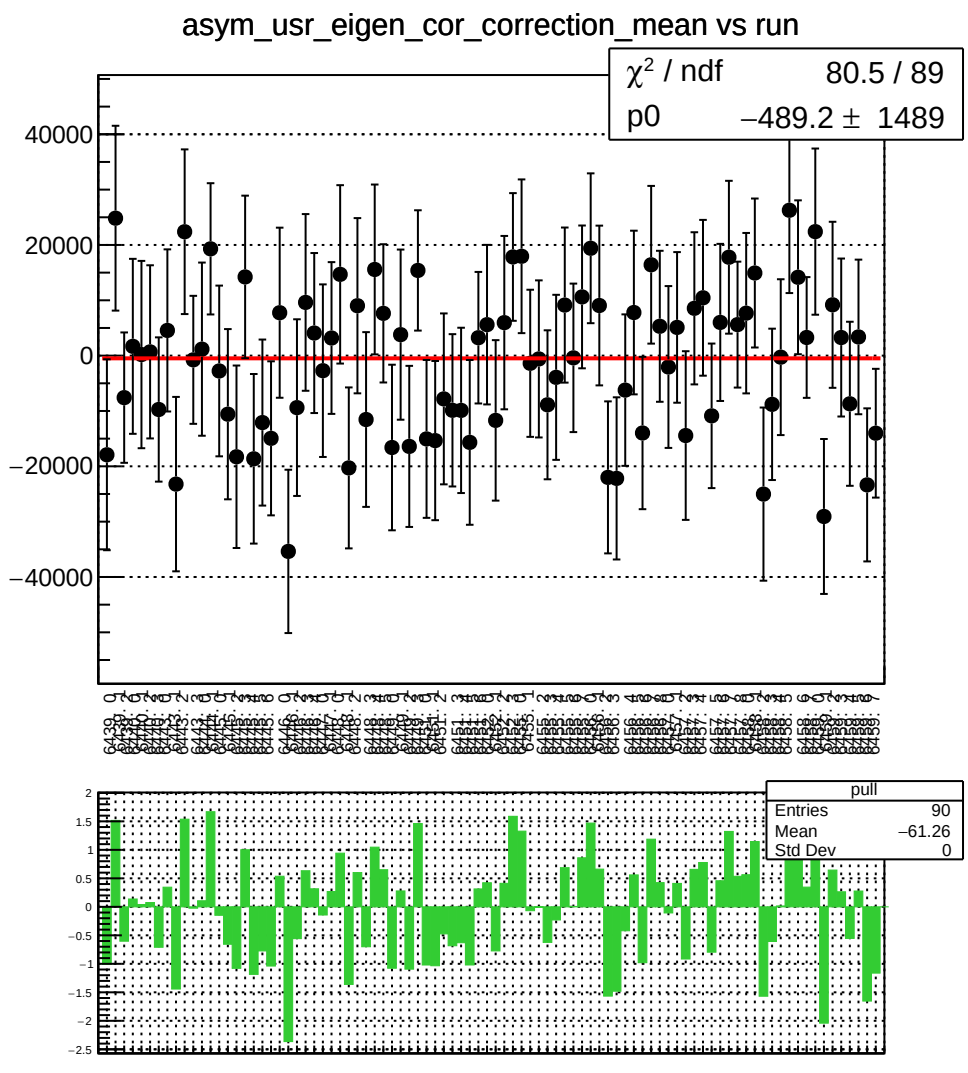
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

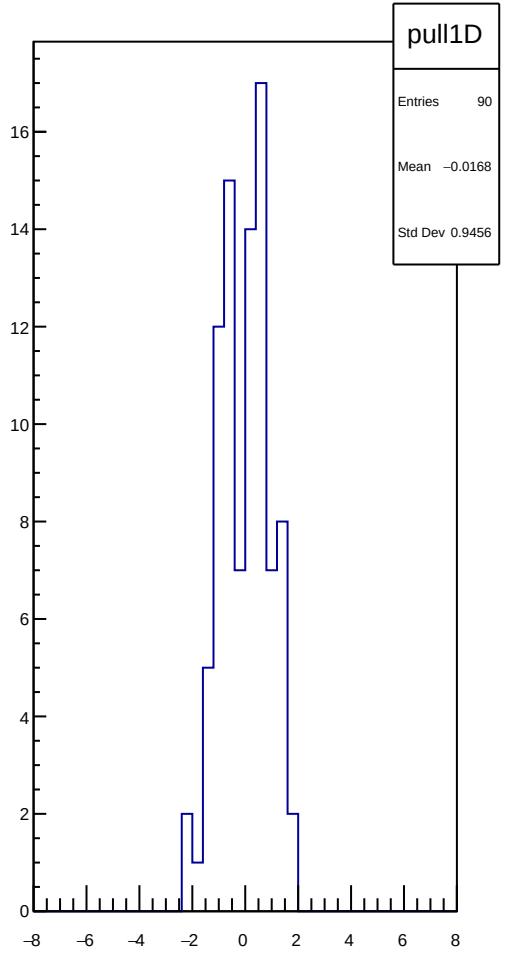

asym_usr_overload_cor_correction_rms vs run
χ² / ndf 6295 / 89
p0 1406 ± 1.055
1600
1500
1400
1300
1200

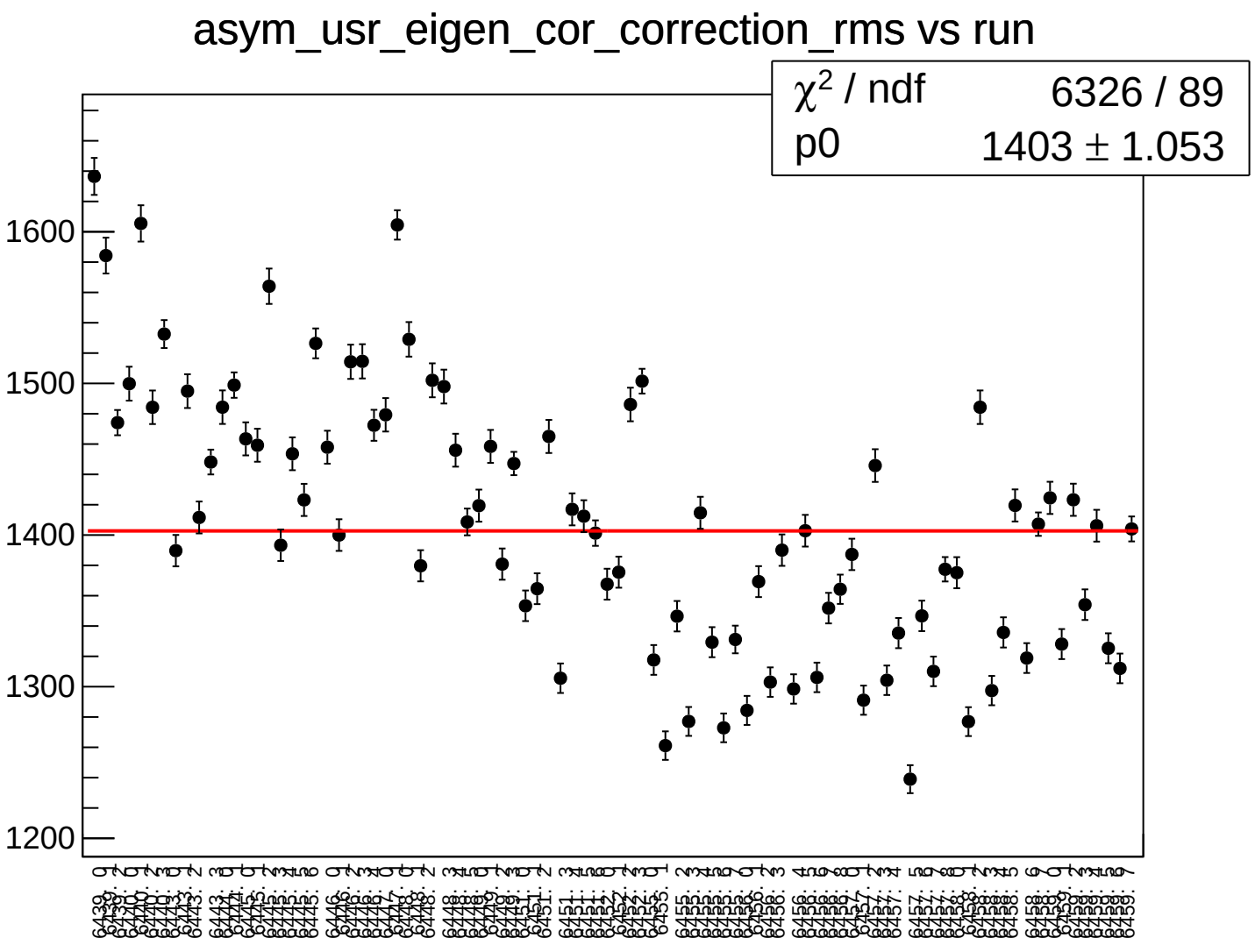

eigen_cor_asym_usr_mean vs run
χ² / ndf 103.6 / 89
p0 3062 ± 1172
40000
20000
0
−20000
−40000
pull
Entries 90
Mean 418.1
Std Dev 0
3
2
1
0
−1
−2
−3

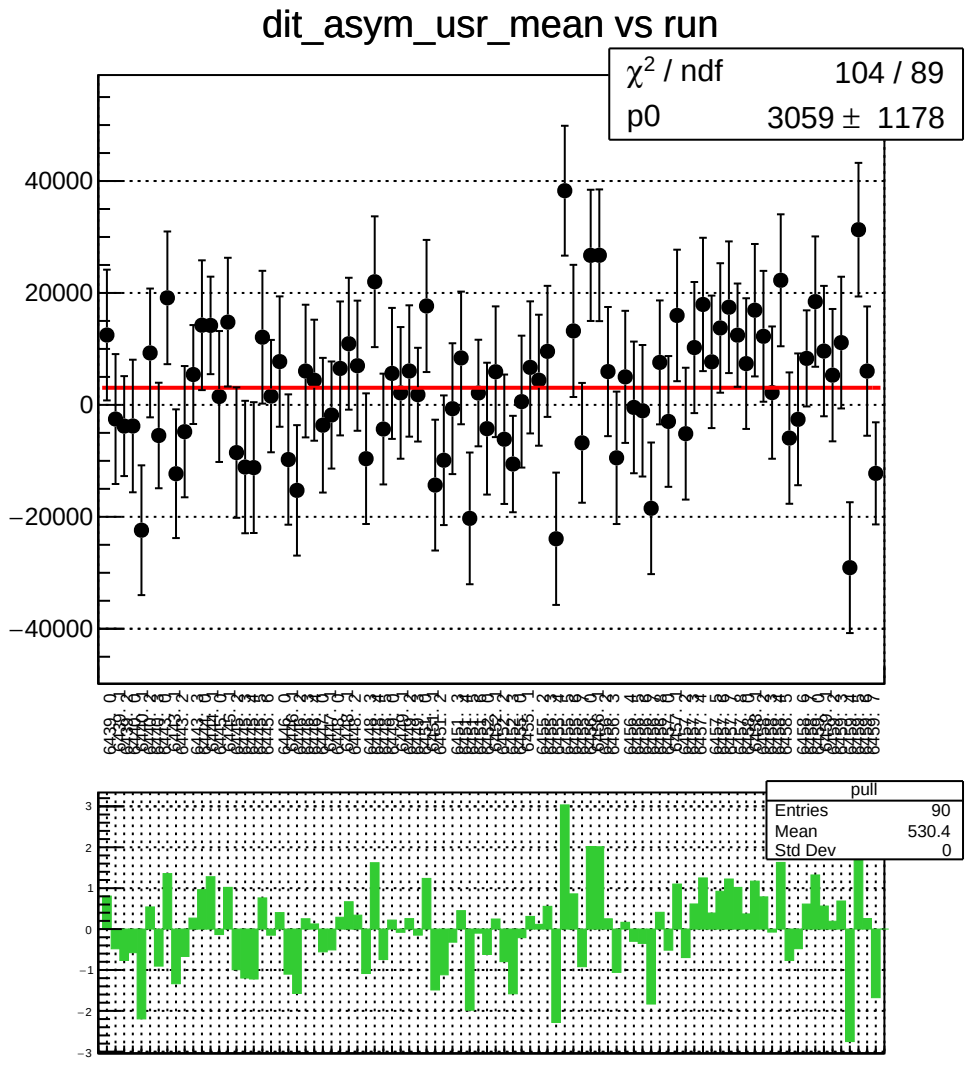

pull1D
Entries 90
Mean 0.0134
Std Dev 1.073
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

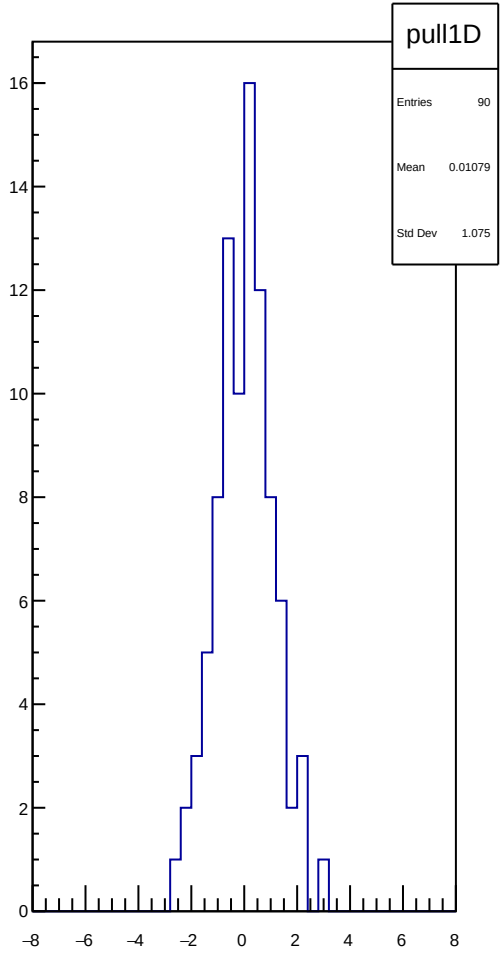

eigen_cor_asym_usr_rms vs run
χ² / ndf 126.5 / 89
p0 1107 ± 0.829
1150
1140
1130
1120
1110
1100
1090
1080

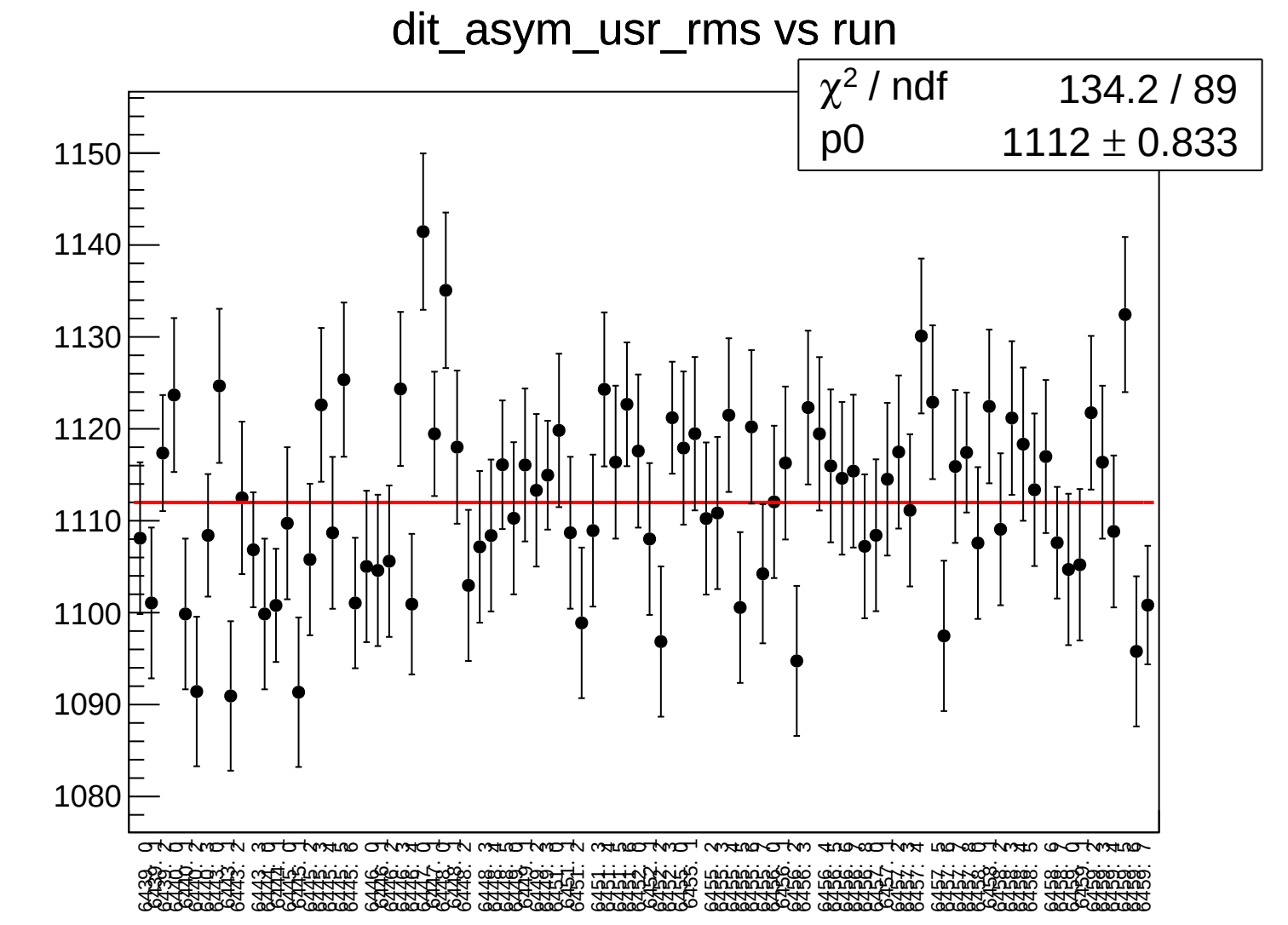

asym_usr_eigen_cor_correction_mean vs run
χ² / ndf 80.5 / 89
p0 −489.2 ± 1489
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −61.26
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

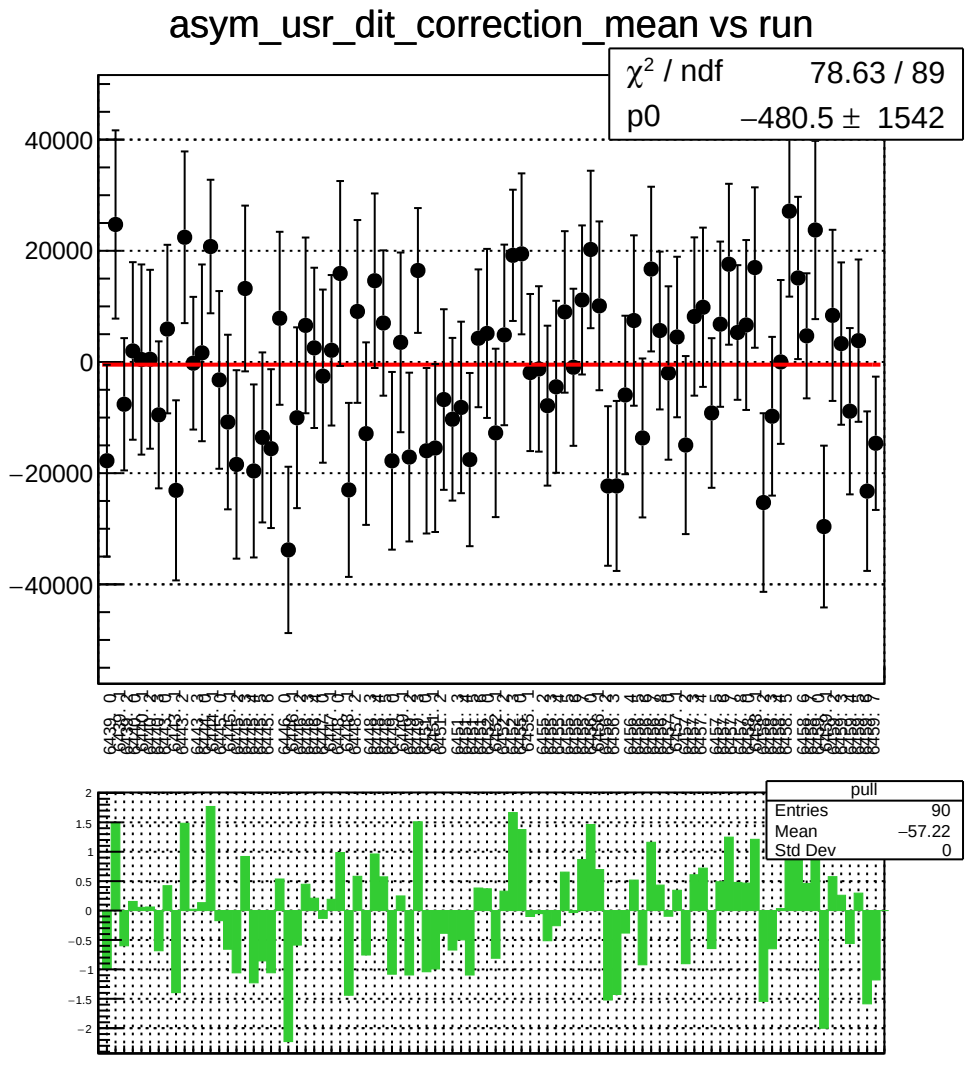

pull1D
Entries 90
Mean −0.0168
Std Dev 0.9456
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

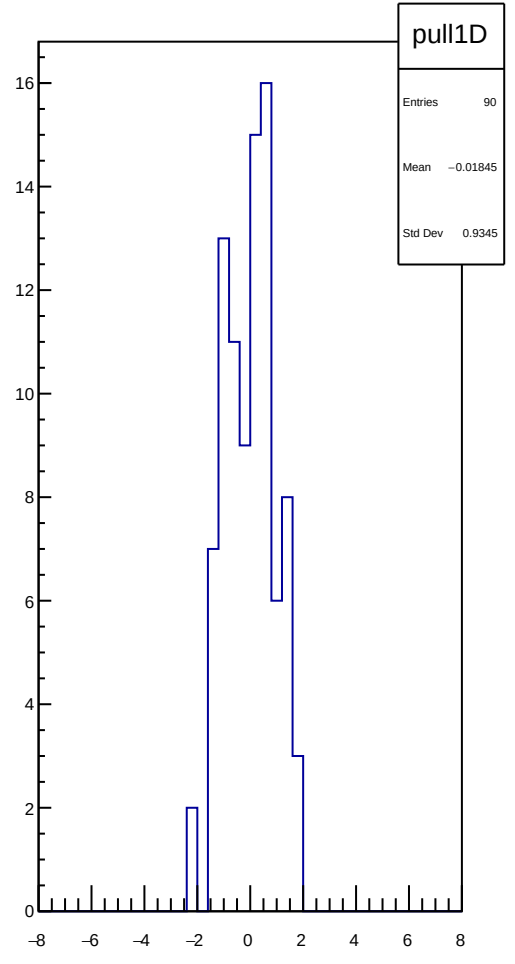

asym_usr_eigen_cor_correction_rms vs run
χ^2 / ndf 6326 / 89
p0 1403 ± 1.053
1600
1500
1400
1300
1200

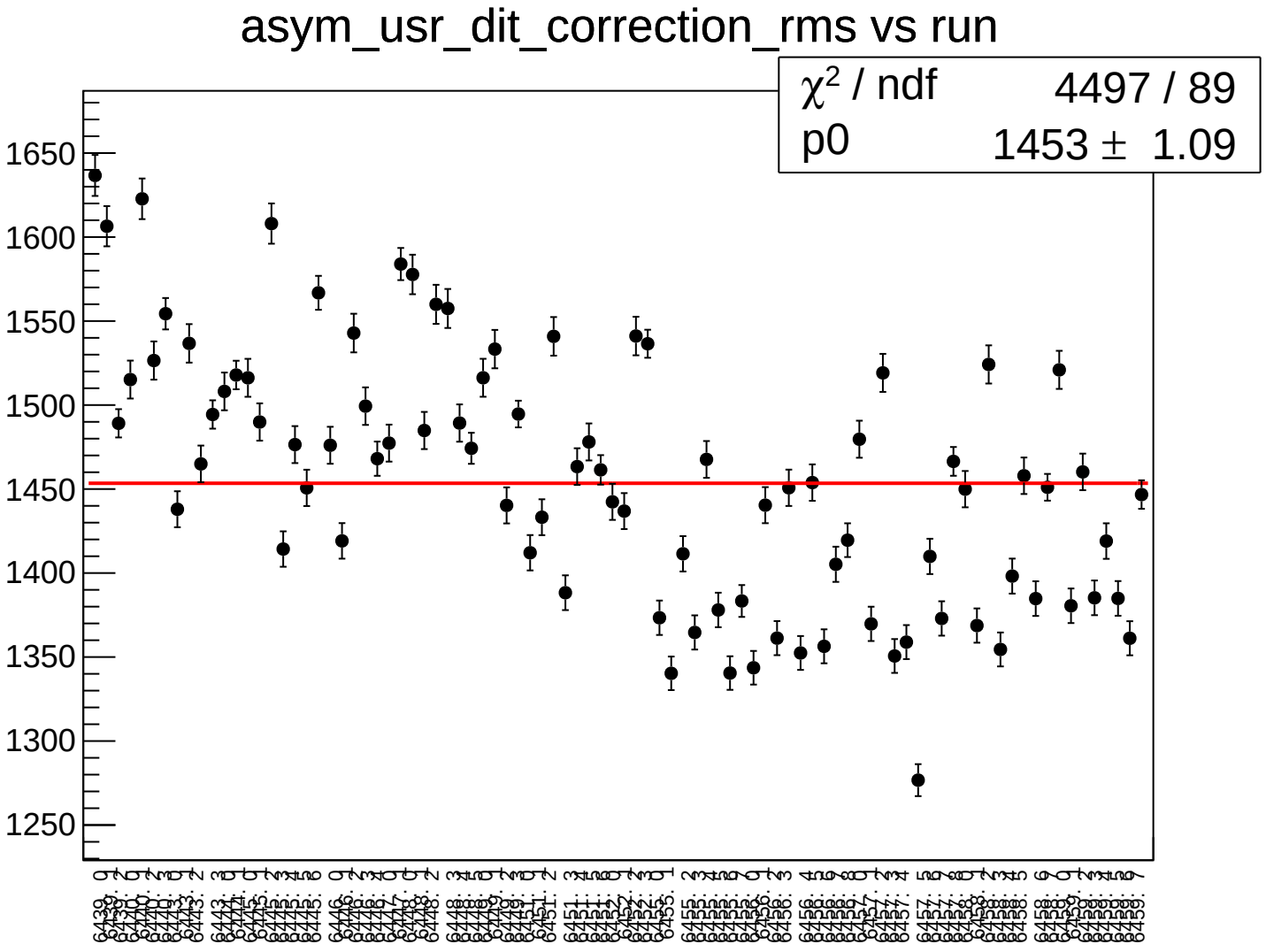

dit_asym_usr_mean vs run
χ² / ndf 104 / 89
p0 3059 ± 1178
40000
20000
0
−20000
−40000
pull
Entries 90
Mean 530.4
Std Dev 0
3
2
1
0
−1
−2
−3

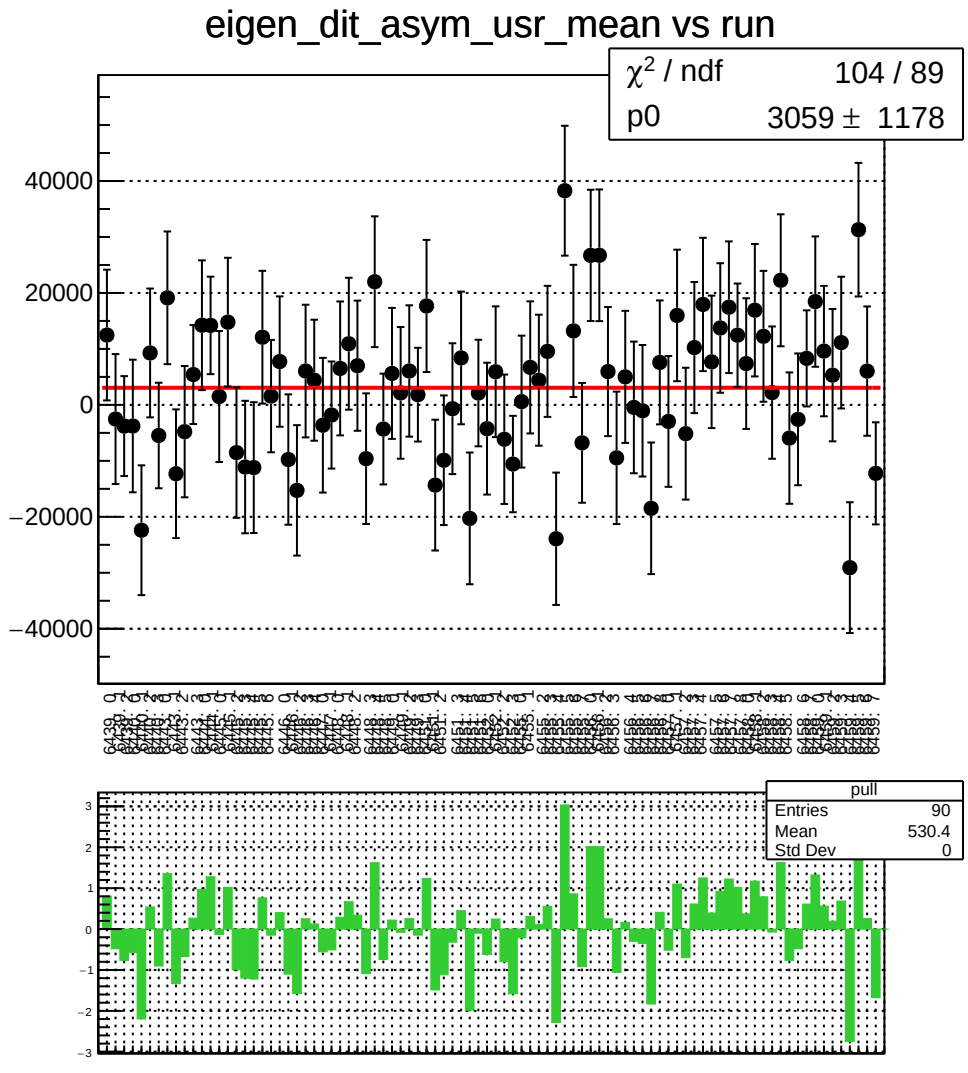

pull1D
Entries 90
Mean 0.01079
Std Dev 1.075
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

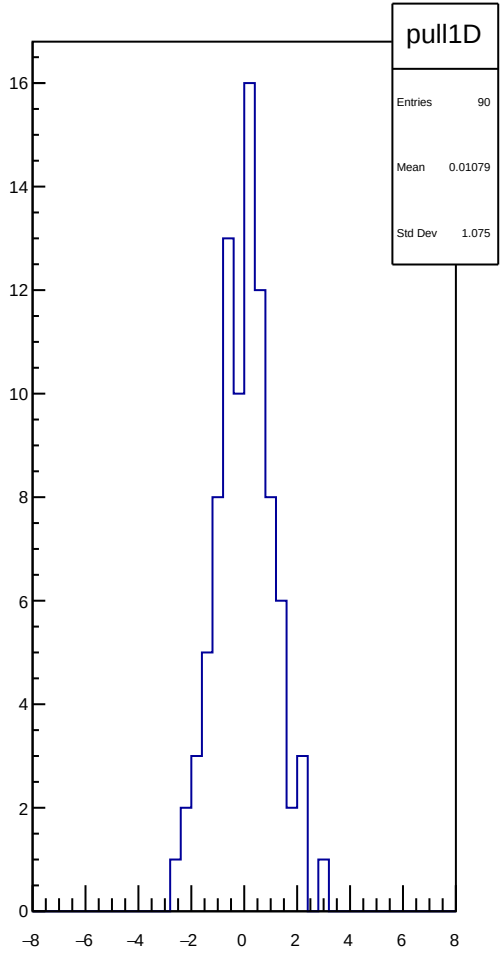

dit_asym_usr_rms vs run
χ² / ndf 134.2 / 89
p0 1112 ± 0.833
1150
1140
1130
1120
1110
1100
1090
1080


asym_usr_dit_correction_mean vs run
χ² / ndf 78.63 / 89
p0 −480.5 ± 1542
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −57.22
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 90
Mean −0.01845
Std Dev 0.9345
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 4497 / 89
p0 1453 ± 1.09
1650
1600
1550
1500
1450
1400
1350
1300
1250


eigen_dit_asym_usr_mean vs run
χ² / ndf 104 / 89
p0 3059 ± 1178
40000
20000
0
−20000
−40000
pull
Entries 90
Mean 530.4
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 90
Mean 0.01079
Std Dev 1.075
16
14
12
10
8
6
4
2
0
−8
−6
−4
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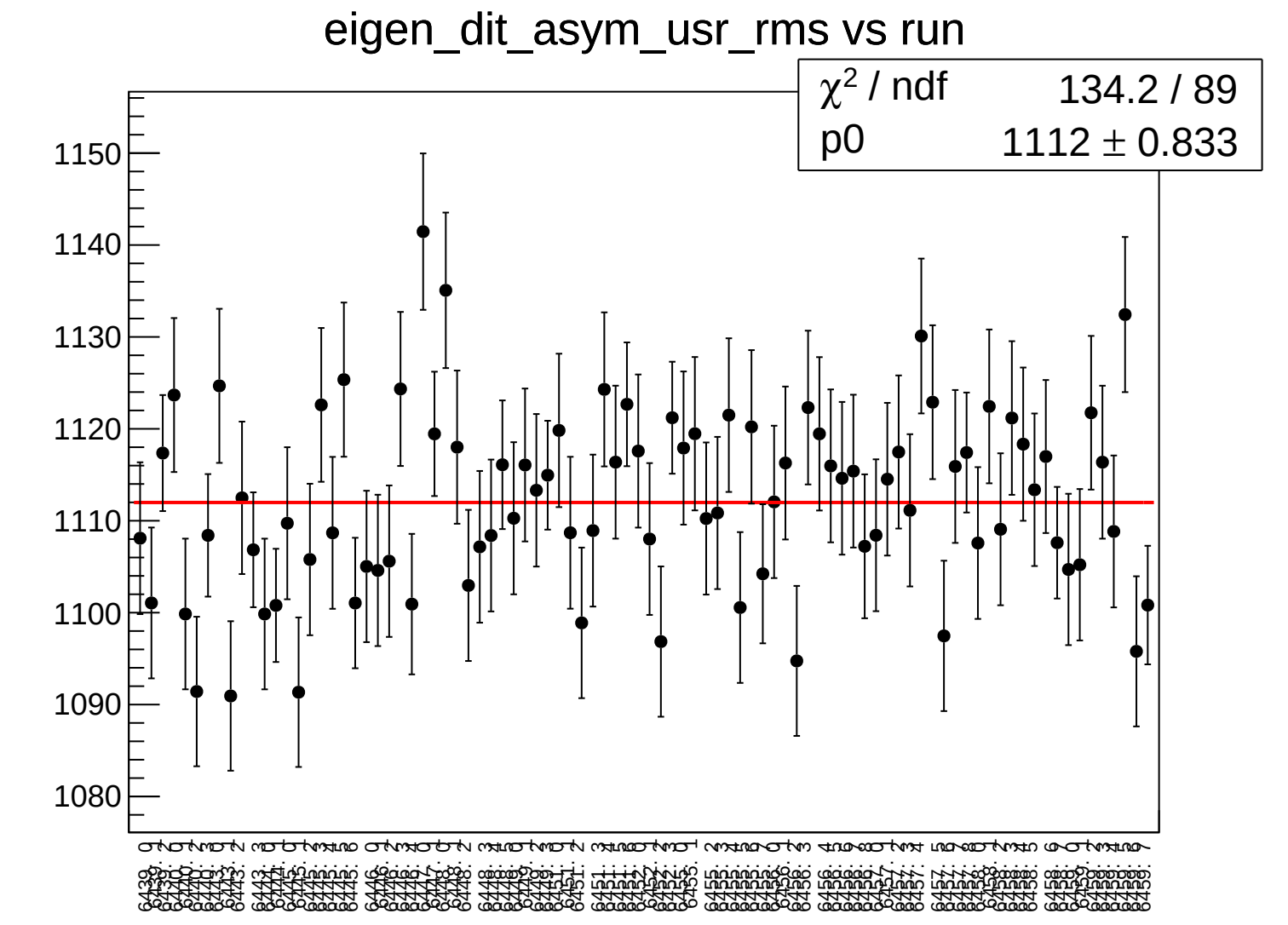
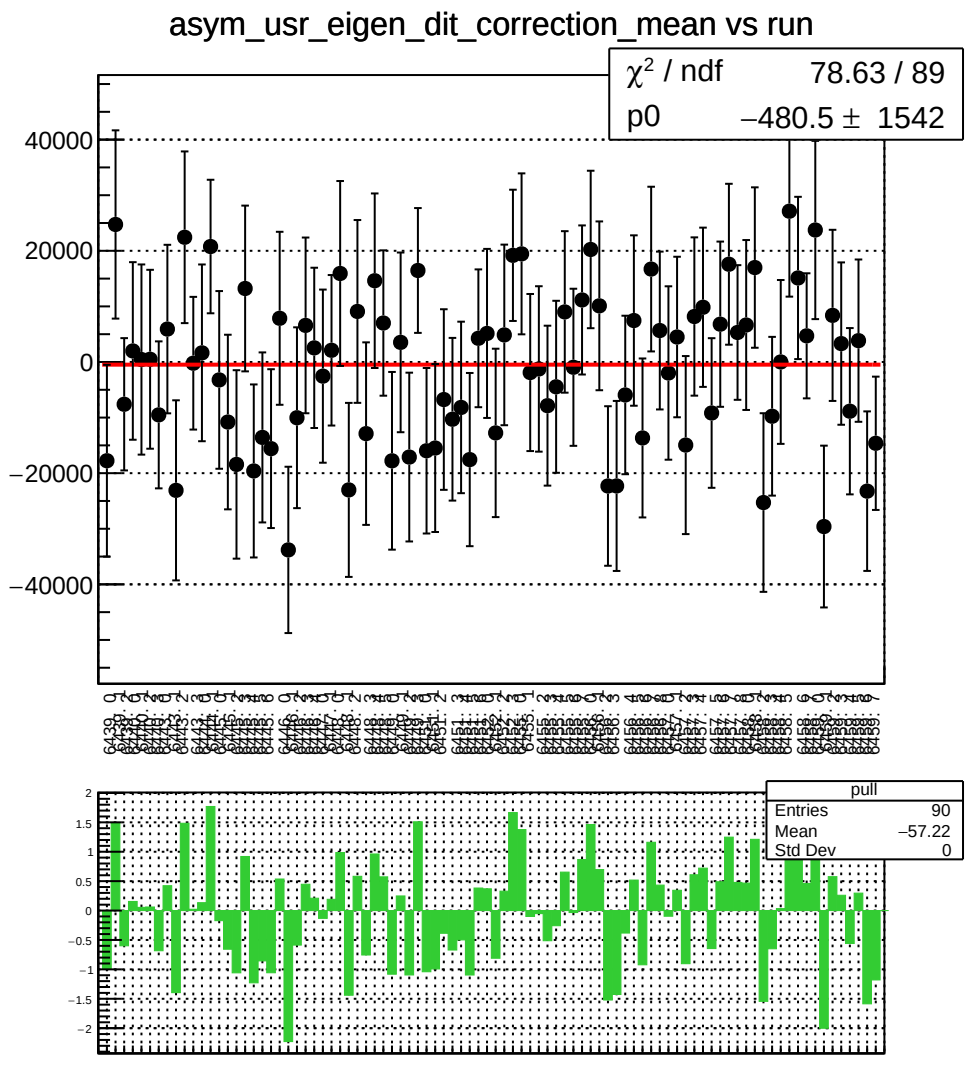
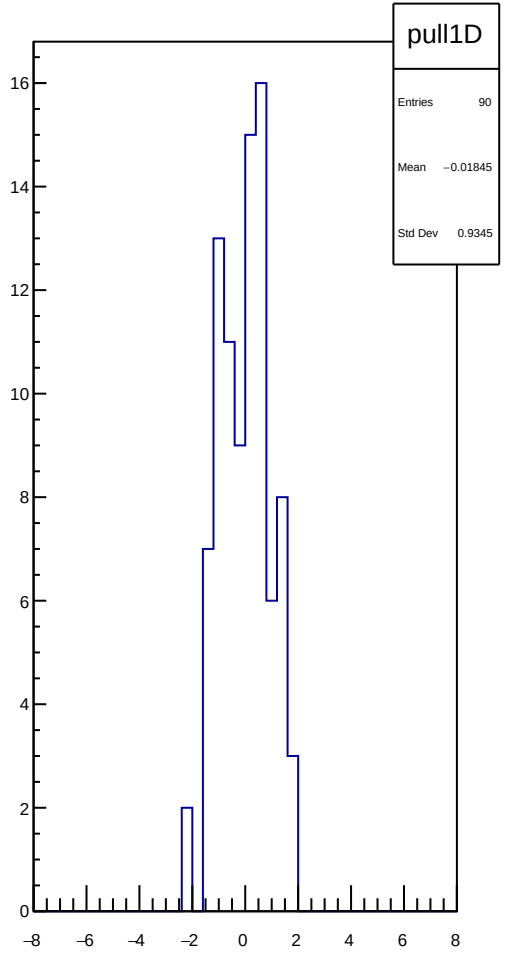
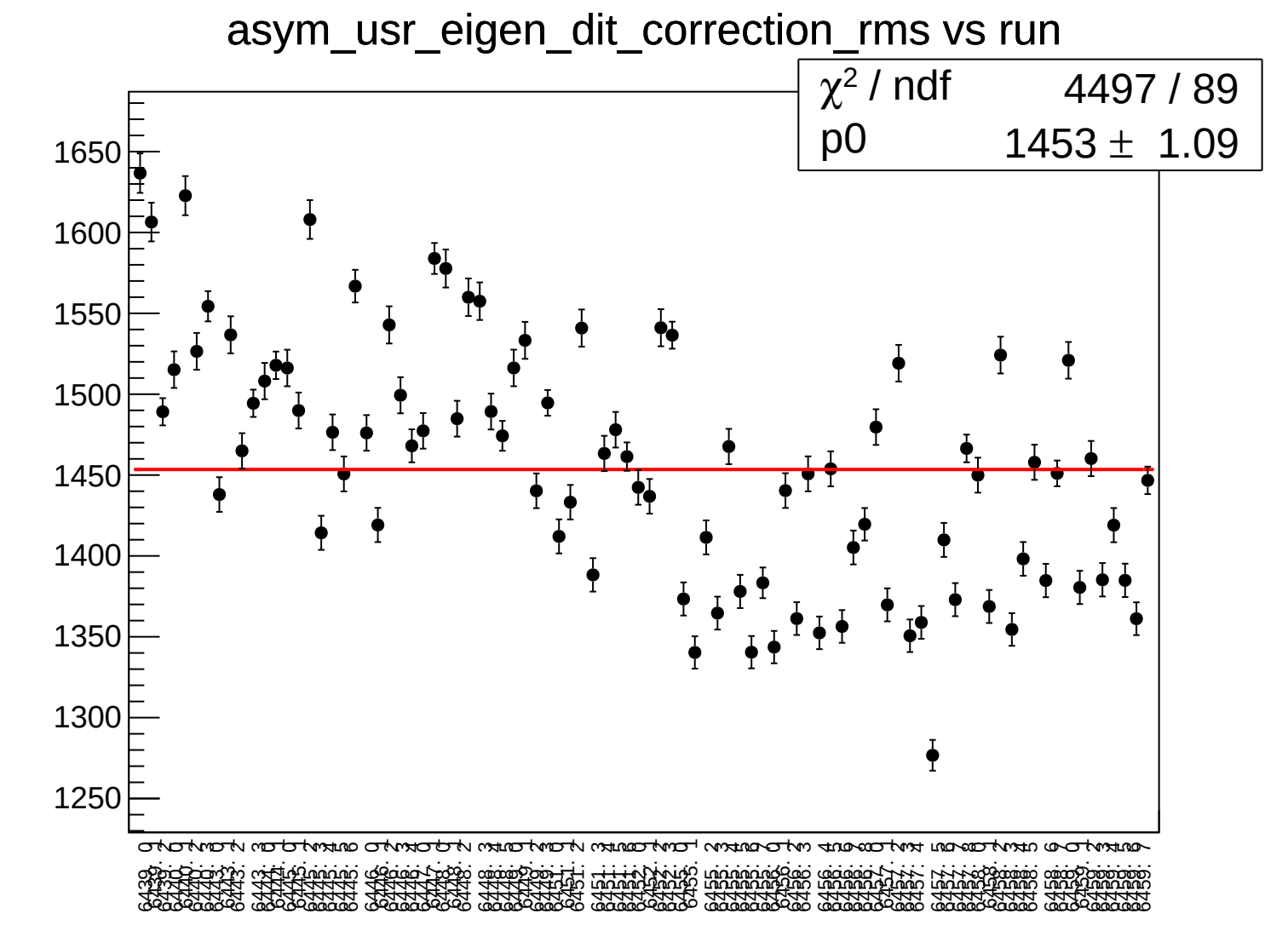
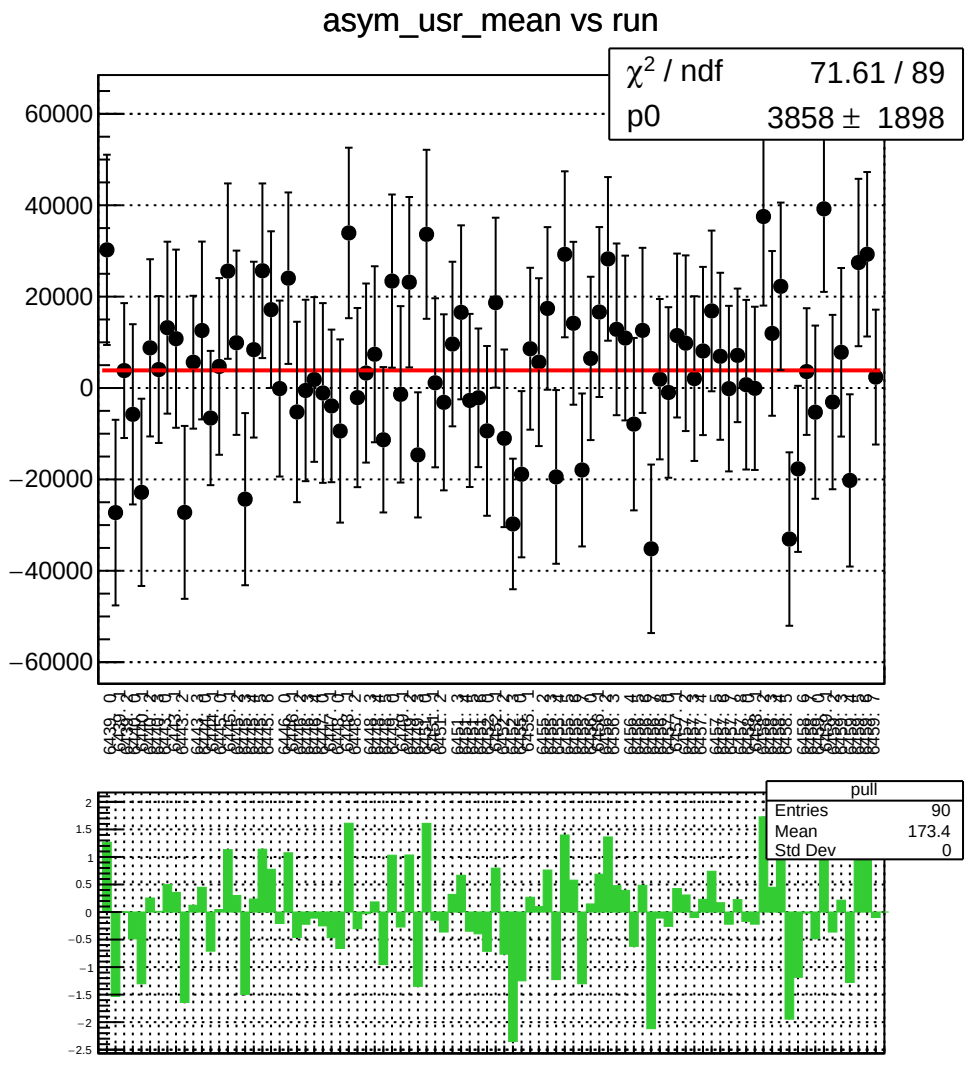
0
2
4
6
8

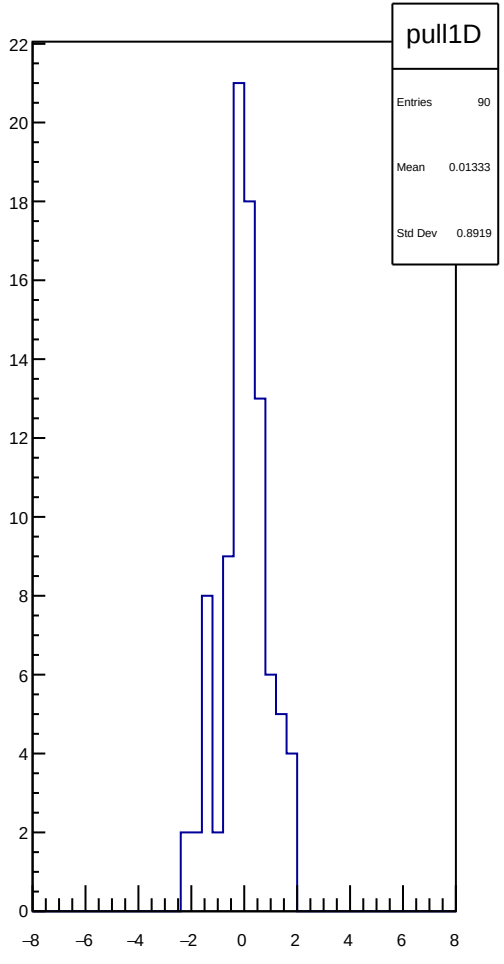

eigen_dit_asym_usr_rms vs run
χ^2 / ndf 134.2 / 89
p0 1112 ± 0.833
1150
1140
1130
1120
1110
1100
1090
1080

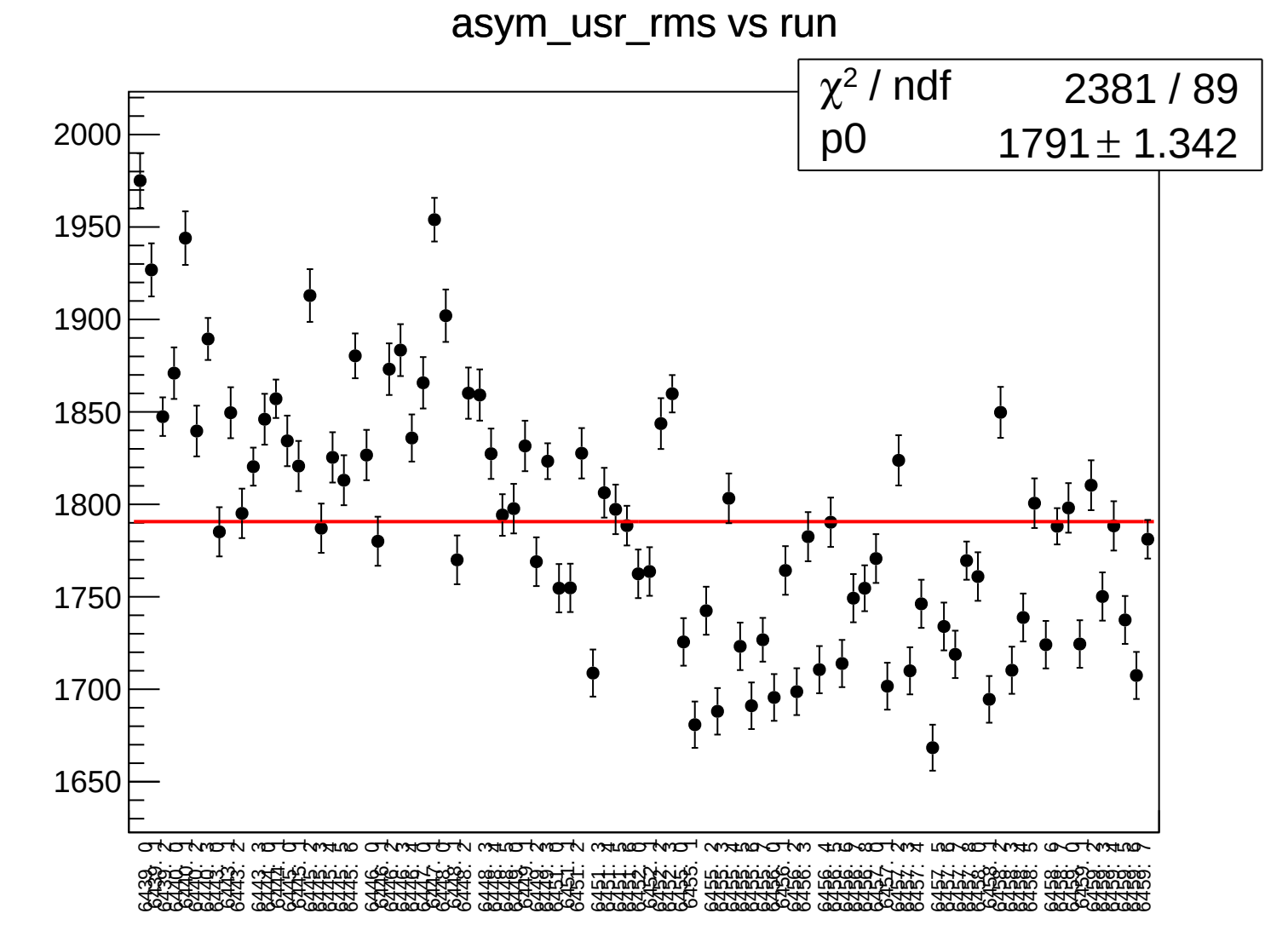

asym_usr_eigen_dit_correction_mean vs run
χ² / ndf 78.63 / 89
p0 −480.5 ± 1542
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −57.22
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

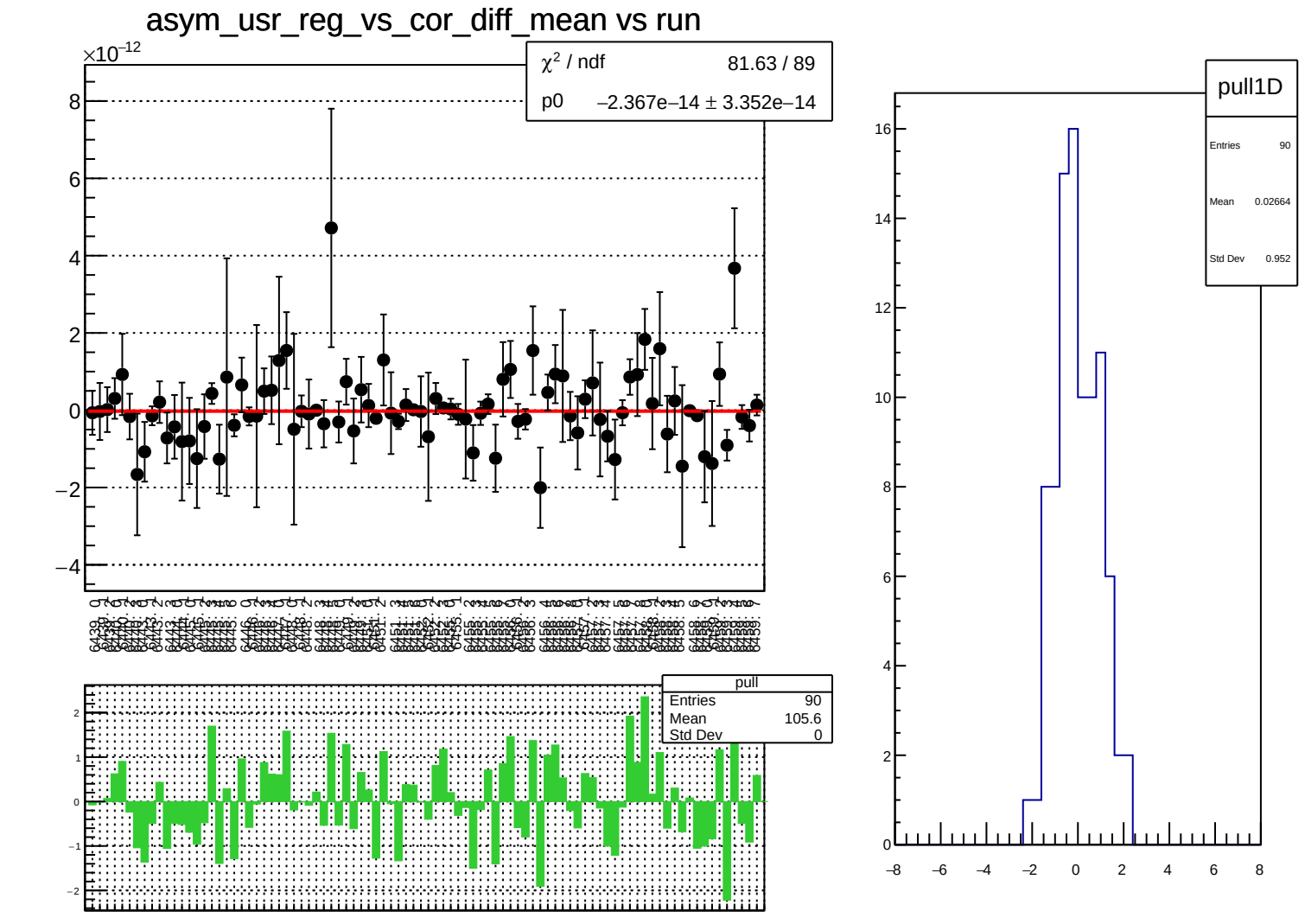

pull1D
Entries 90
Mean −0.01845
Std Dev 0.9345
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

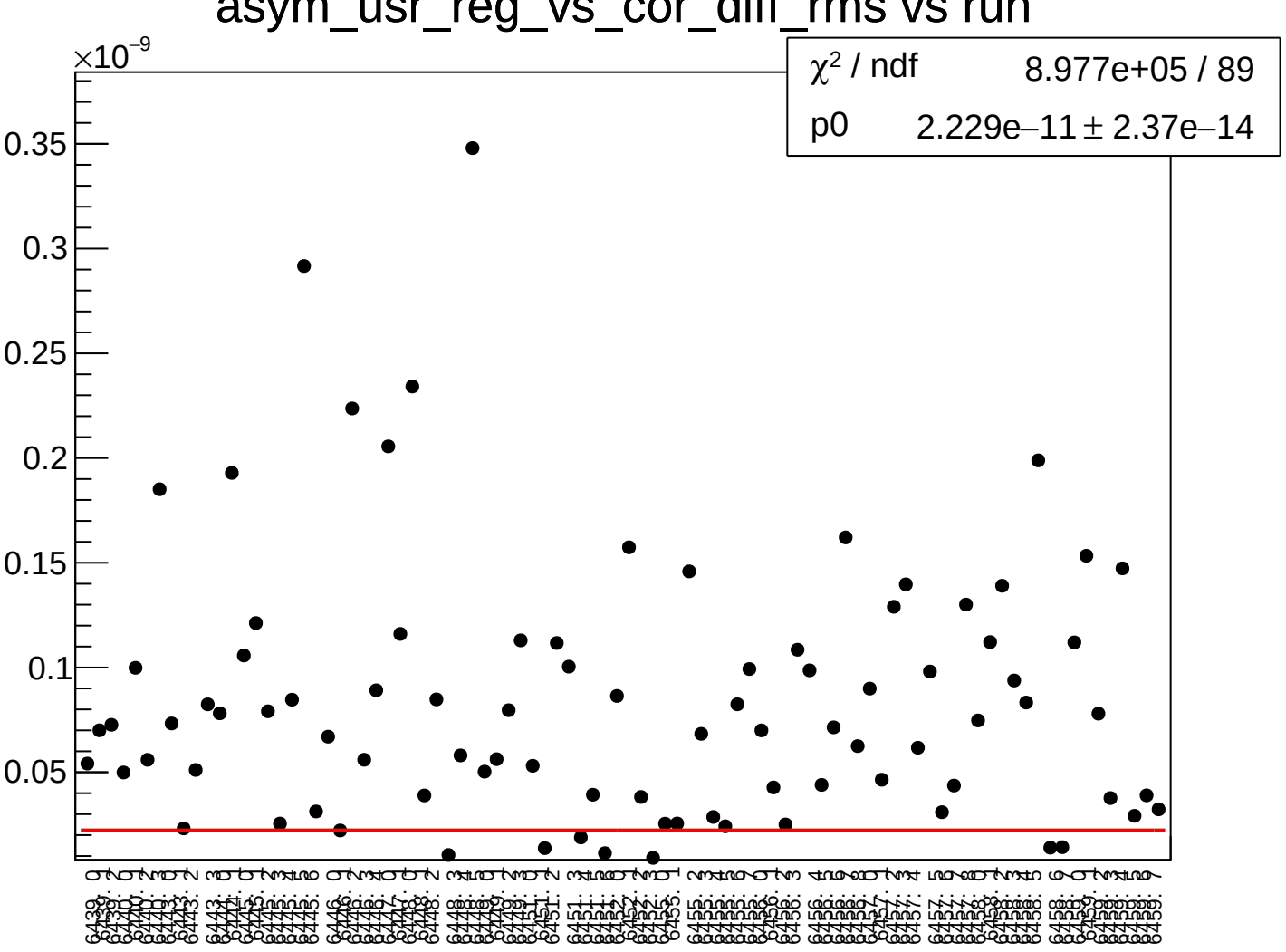

asym_usr_eigen_dit_correction_rms vs run
χ² / ndf 4497 / 89
p0 1453 ± 1.09
1650
1600
1550
1500
1450
1400
1350
1300
1250

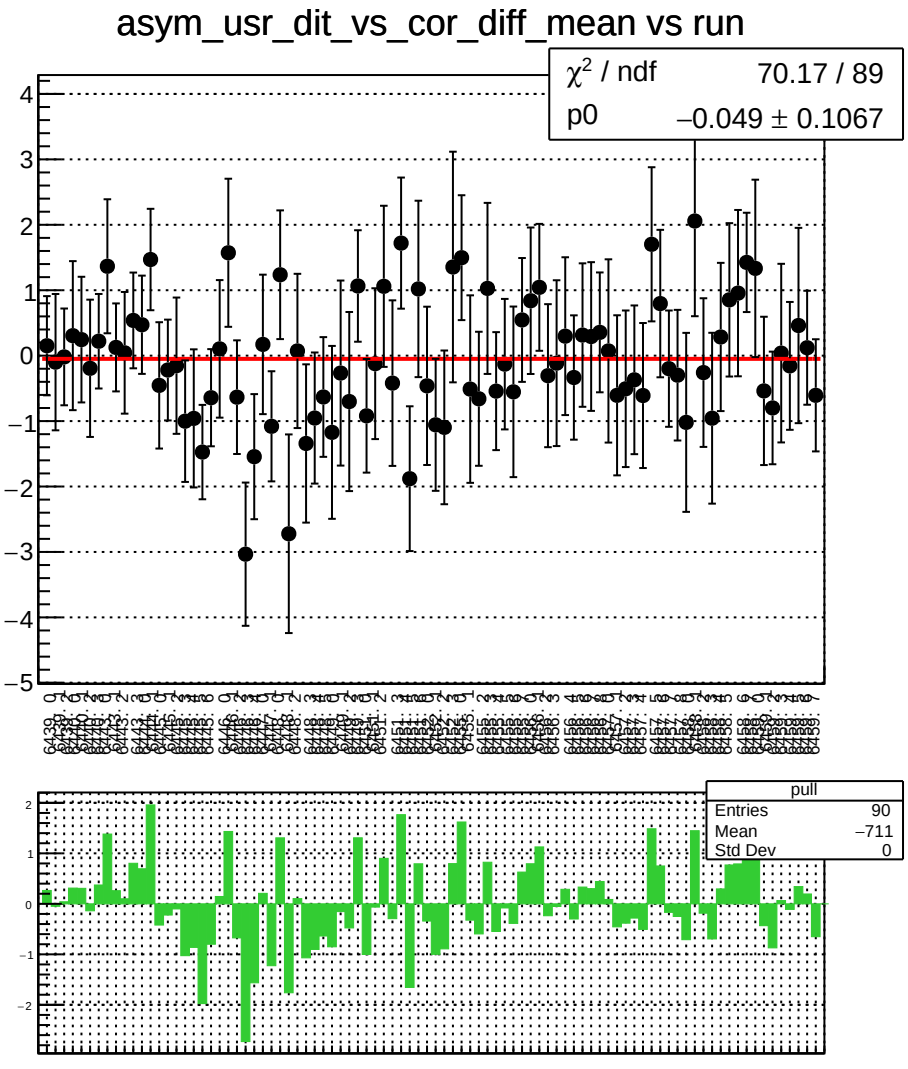

asym_usr_mean vs run
χ² / ndf 71.61 / 89
p0 3858 ± 1898
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 173.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

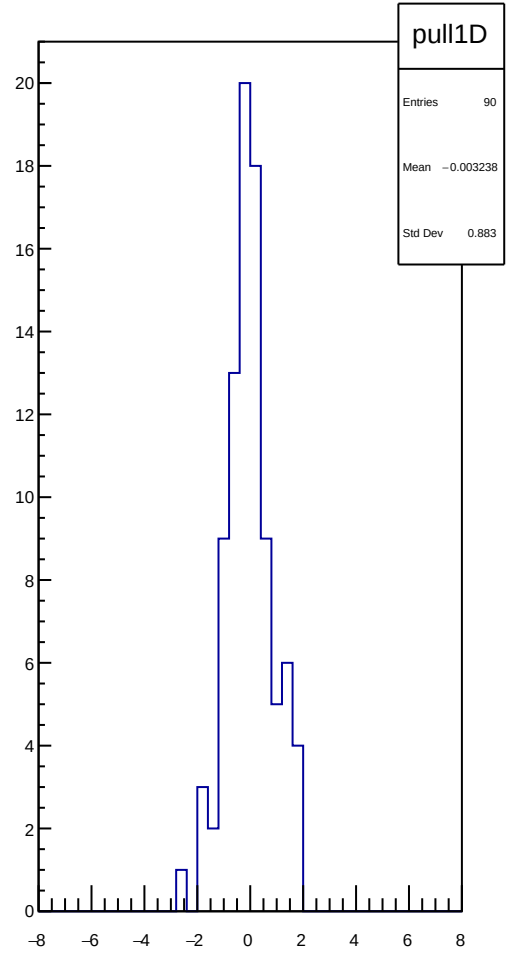

pull1D
Entries 90
Mean 0.01333
Std Dev 0.8919
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

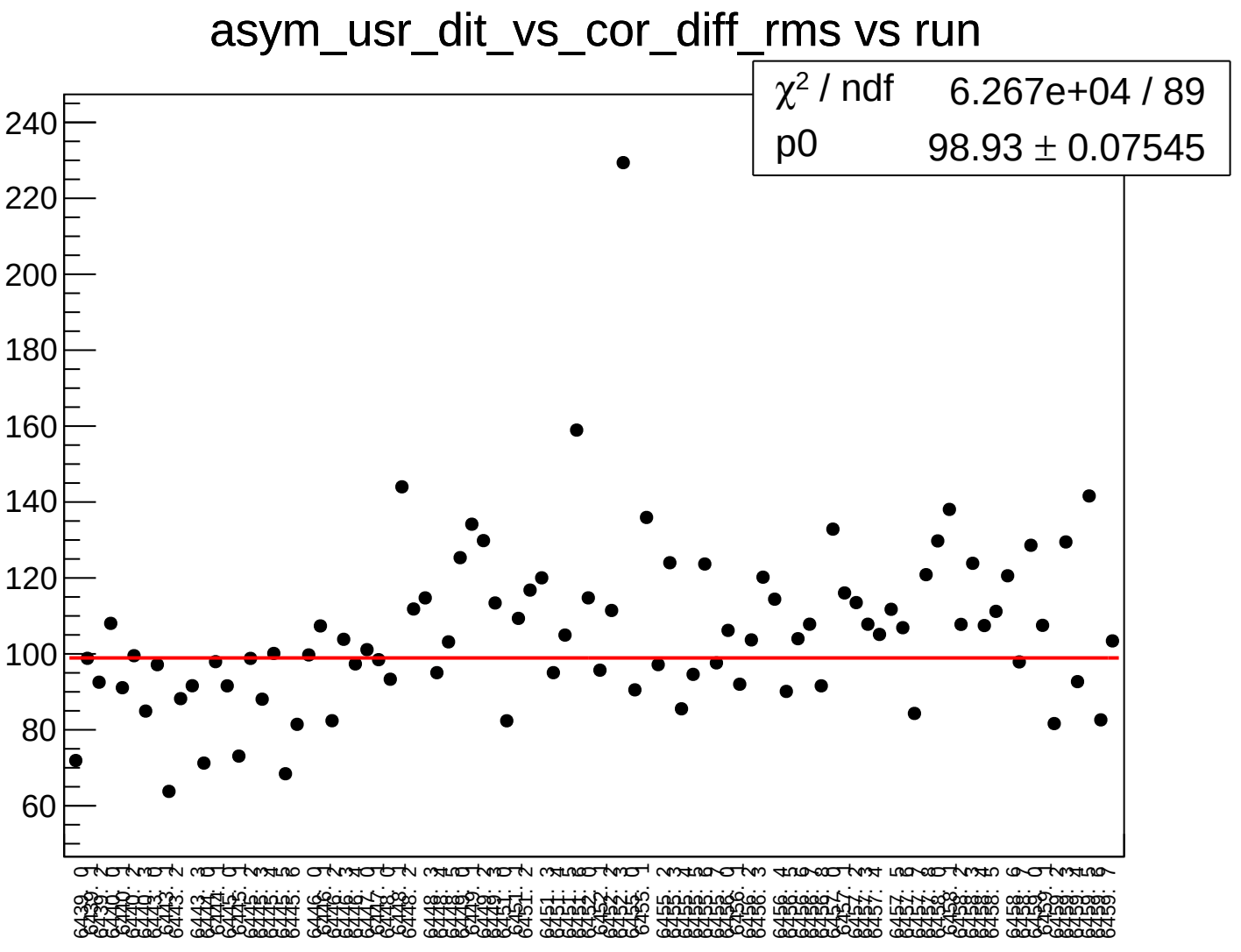

asym_usr_rms vs run
χ² / ndf 2381 / 89
p0 1791 ± 1.342
2000
1950
1900
1850
1800
1750
1700
1650

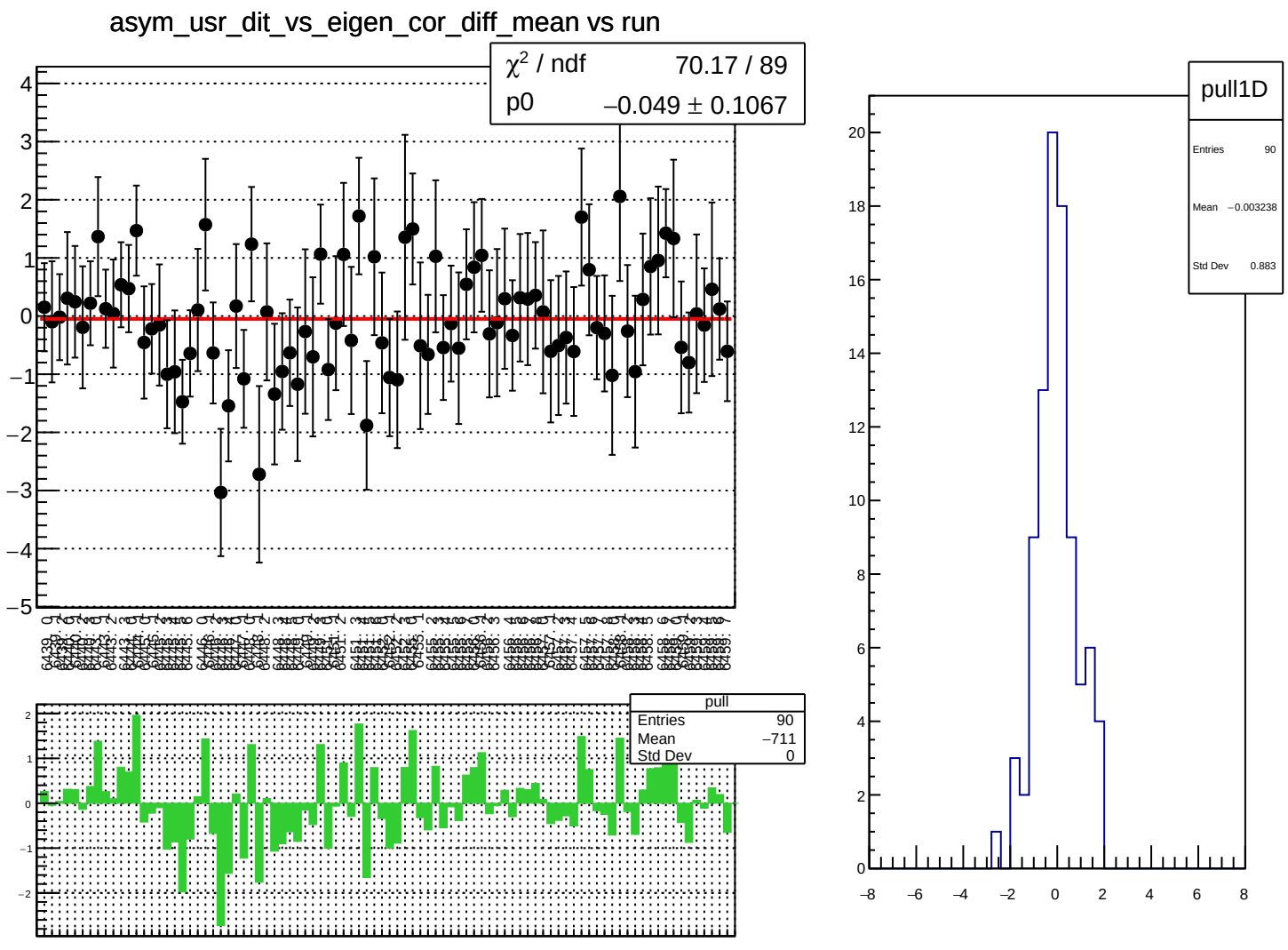

asym_usr_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.63 / 89
p0 −2.367e−14 ± 3.352e−14
pull
Entries 90
Mean 105.6
Std Dev 0
pull1D
Entries 90
Mean 0.02664
Std Dev 0.952

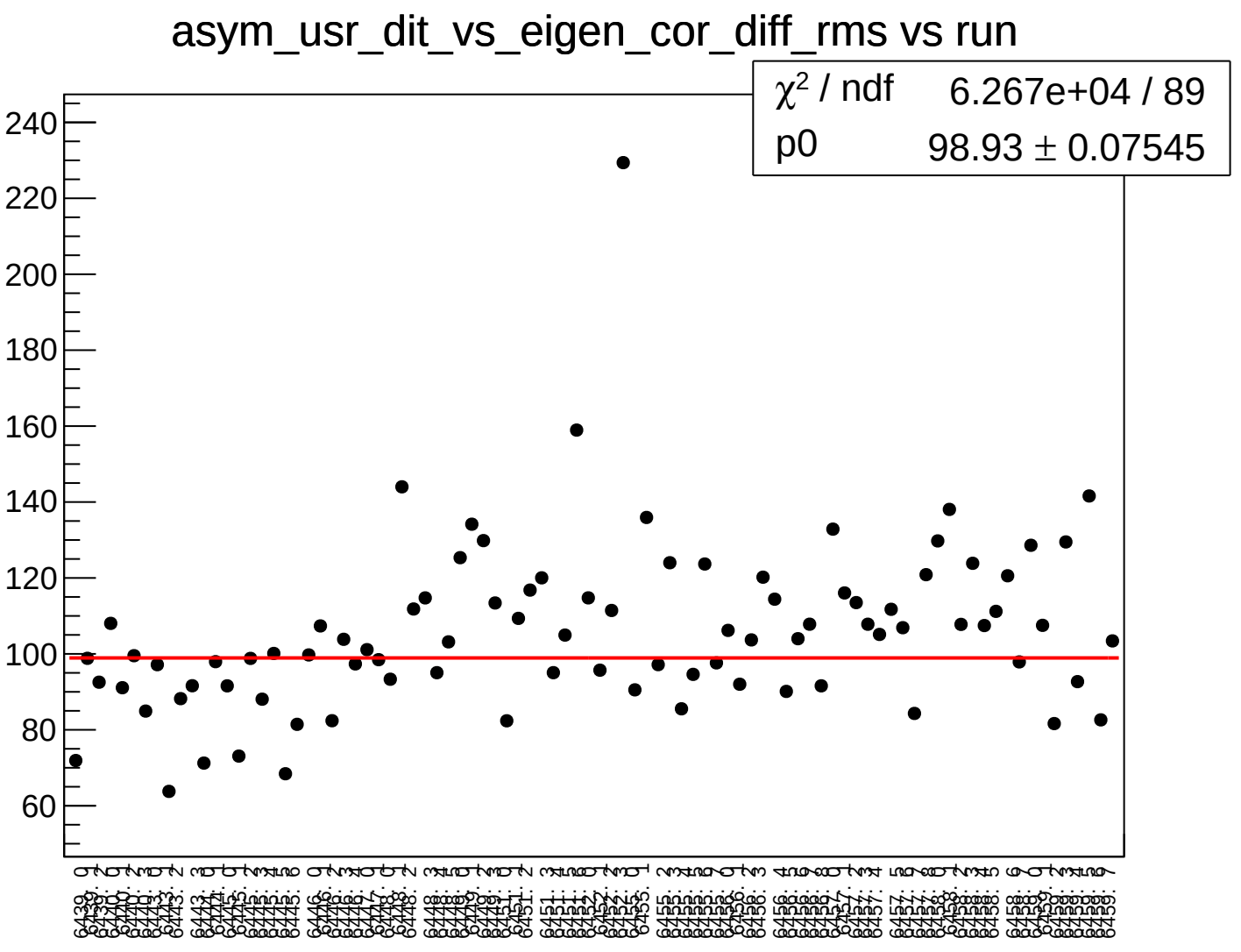

asym_usr_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.977e+05 / 89
p0 2.229e−11 ± 2.37e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

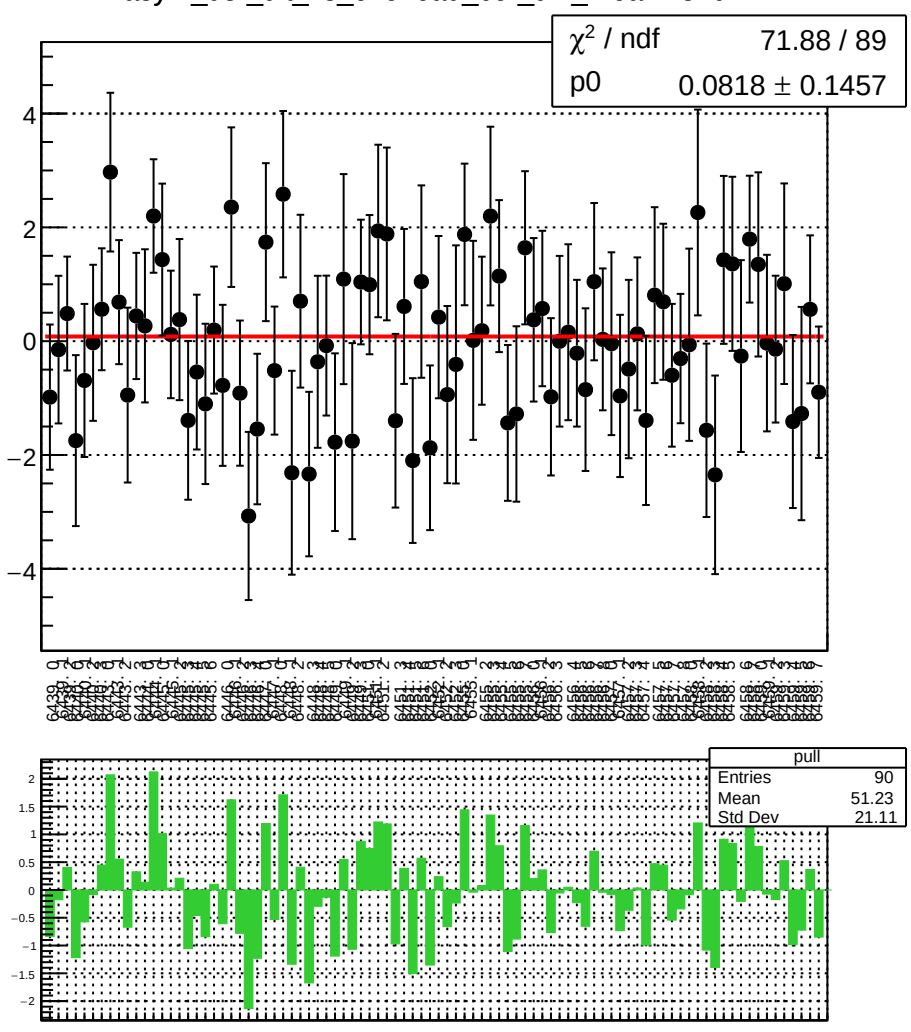

asym_usr_dit_vs_cor_diff_mean vs run
χ² / ndf 70.17 / 89
p0 −0.049 ± 0.1067
pull
Entries 90
Mean −711
Std Dev 0

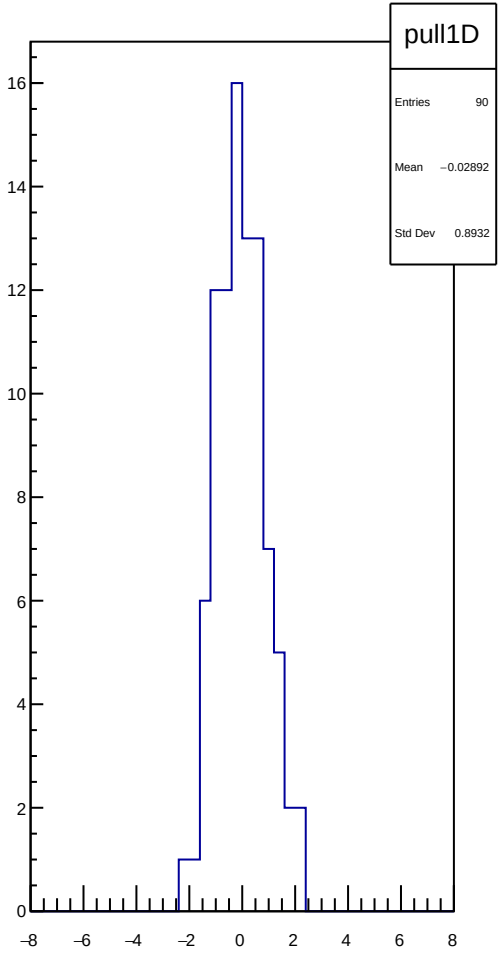

pull1D
Entries 90
Mean −0.003238
Std Dev 0.883

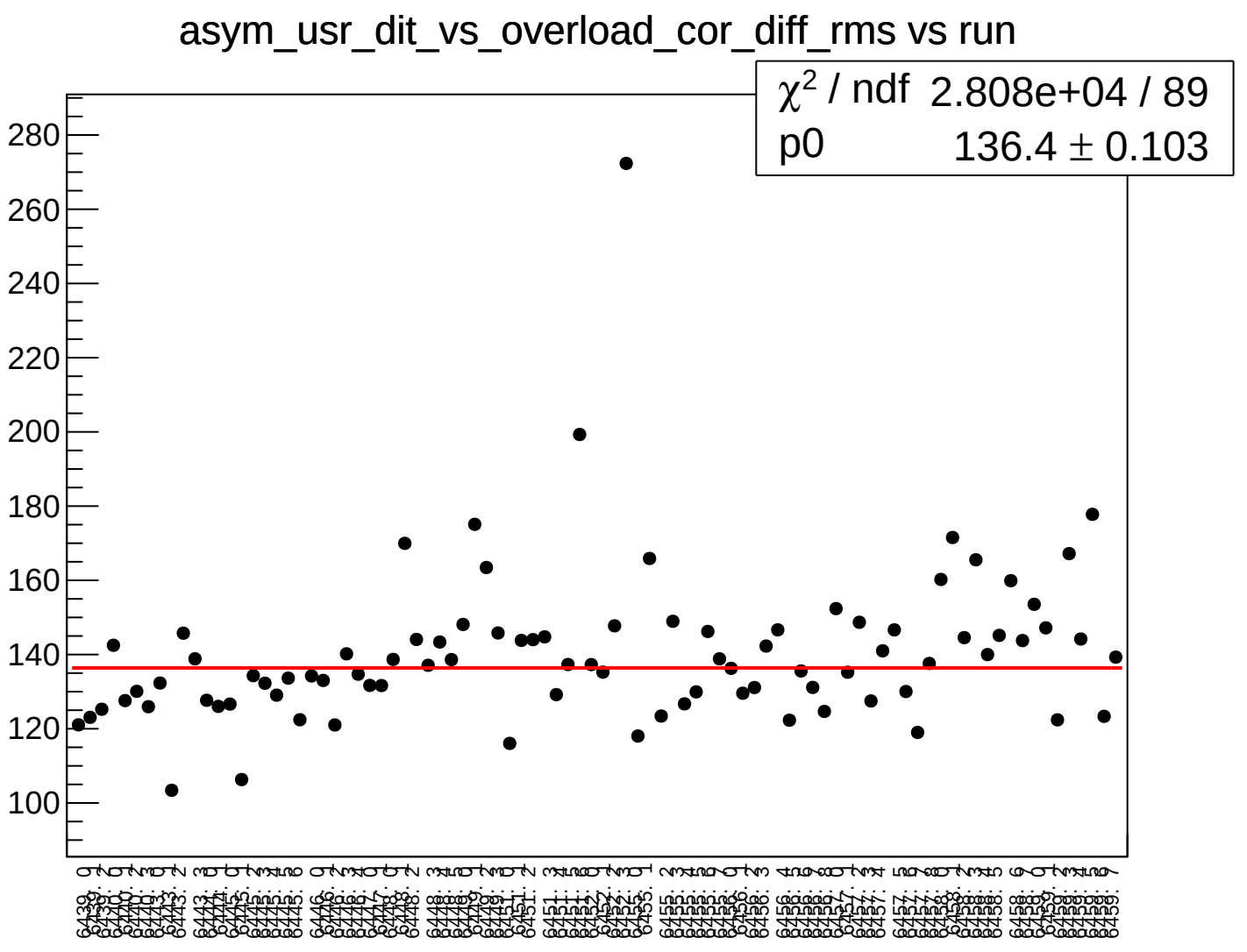

asym_usr_dit_vs_cor_diff_rms vs run
χ² / ndf 6.267e+04 / 89
p0 98.93 ± 0.07545
240
220
200
180
160
140
120
100
80
60

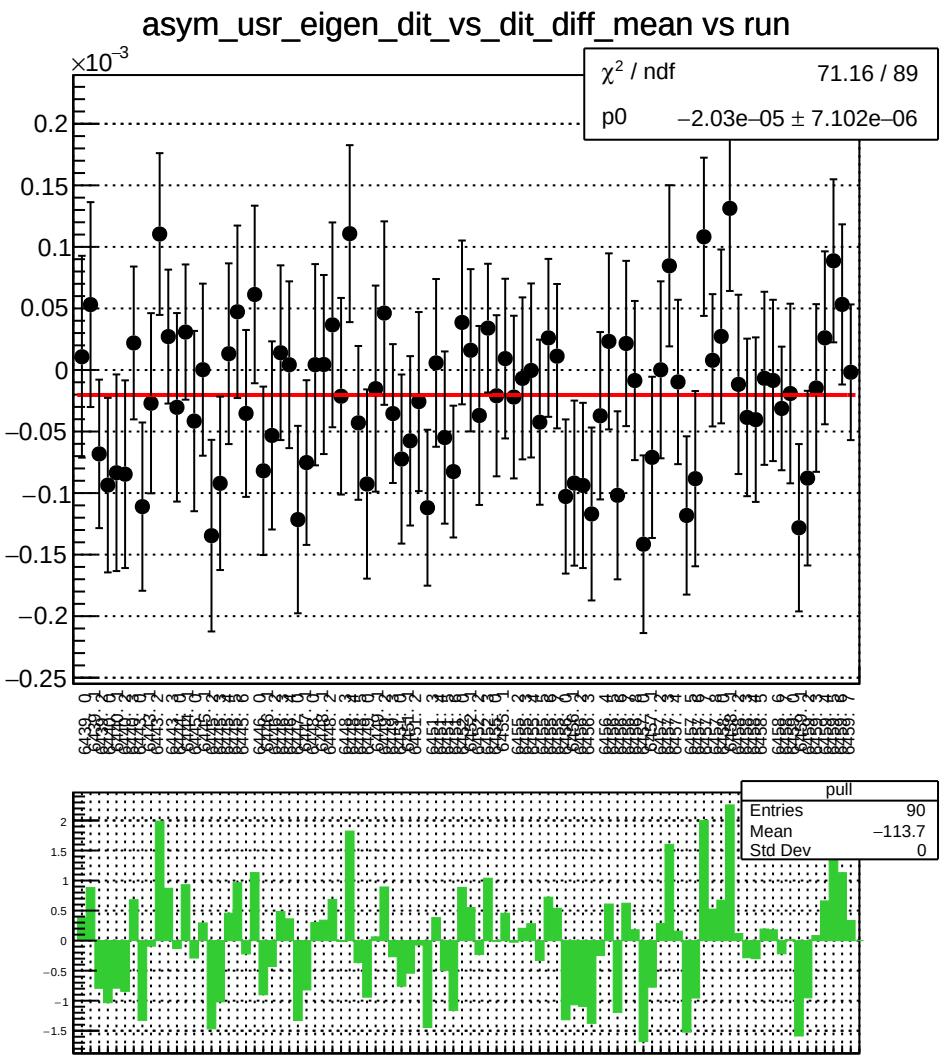

asym_usr_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.17 / 89
p0 −0.049 ± 0.1067
pull
Entries 90
Mean −711
Std Dev 0
pull1D
Entries 90
Mean −0.003238
Std Dev 0.883

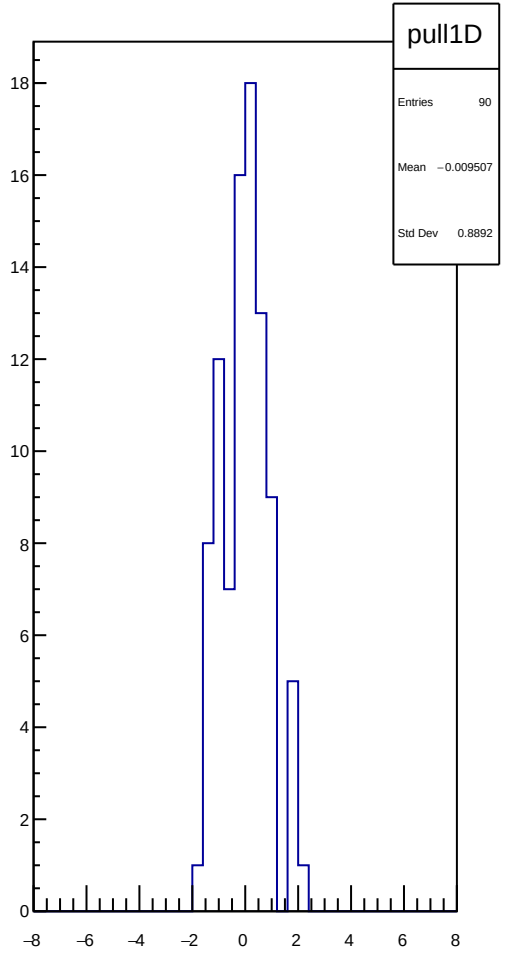

asym_usr_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.267e+04 / 89
p0 98.93 ± 0.07545
240
220
200
180
160
140
120
100
80
60

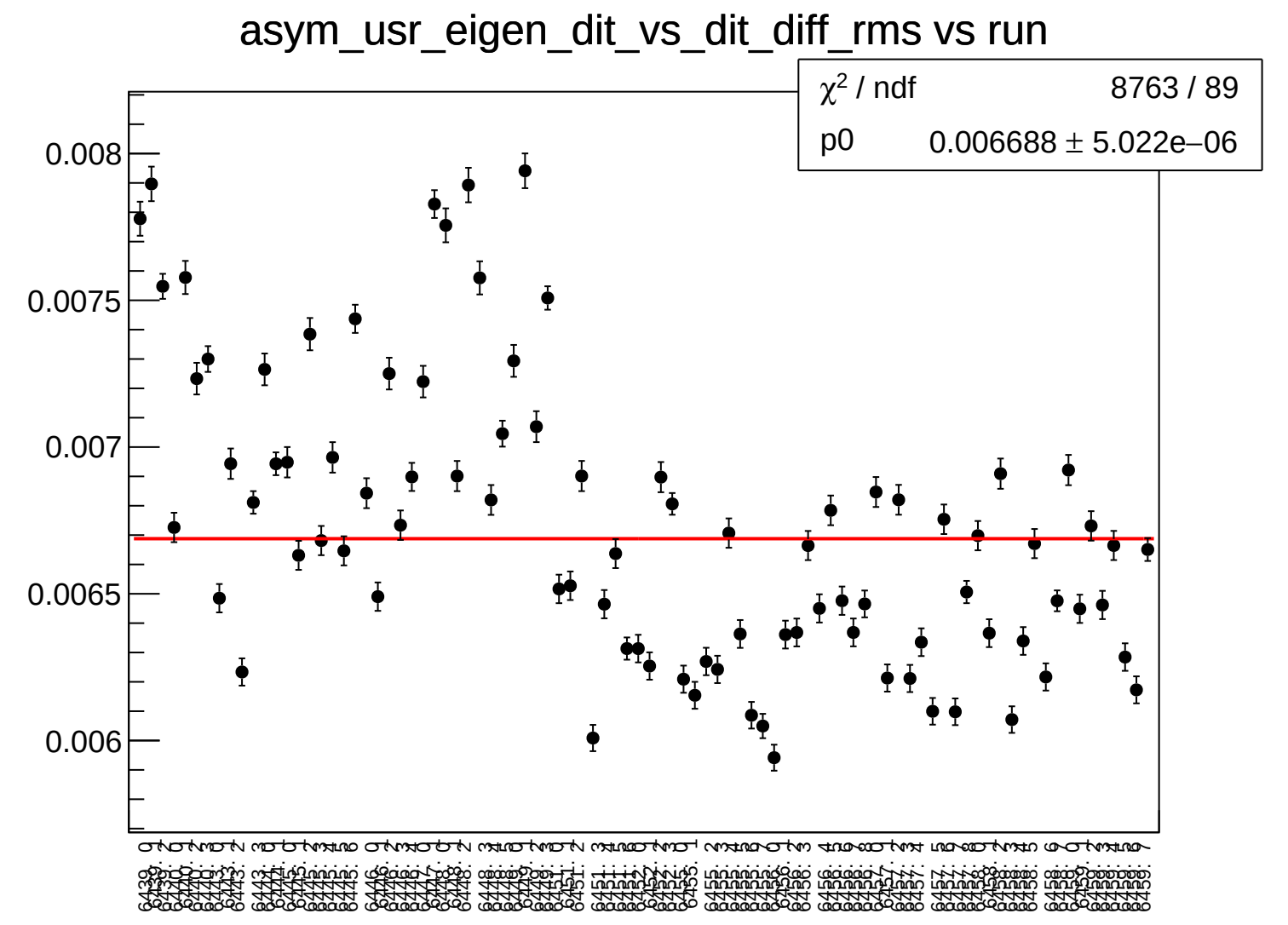

asym_usr_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 71.88 / 89
p0 0.0818 ± 0.1457
pull
Entries 90
Mean 51.23
Std Dev 21.11

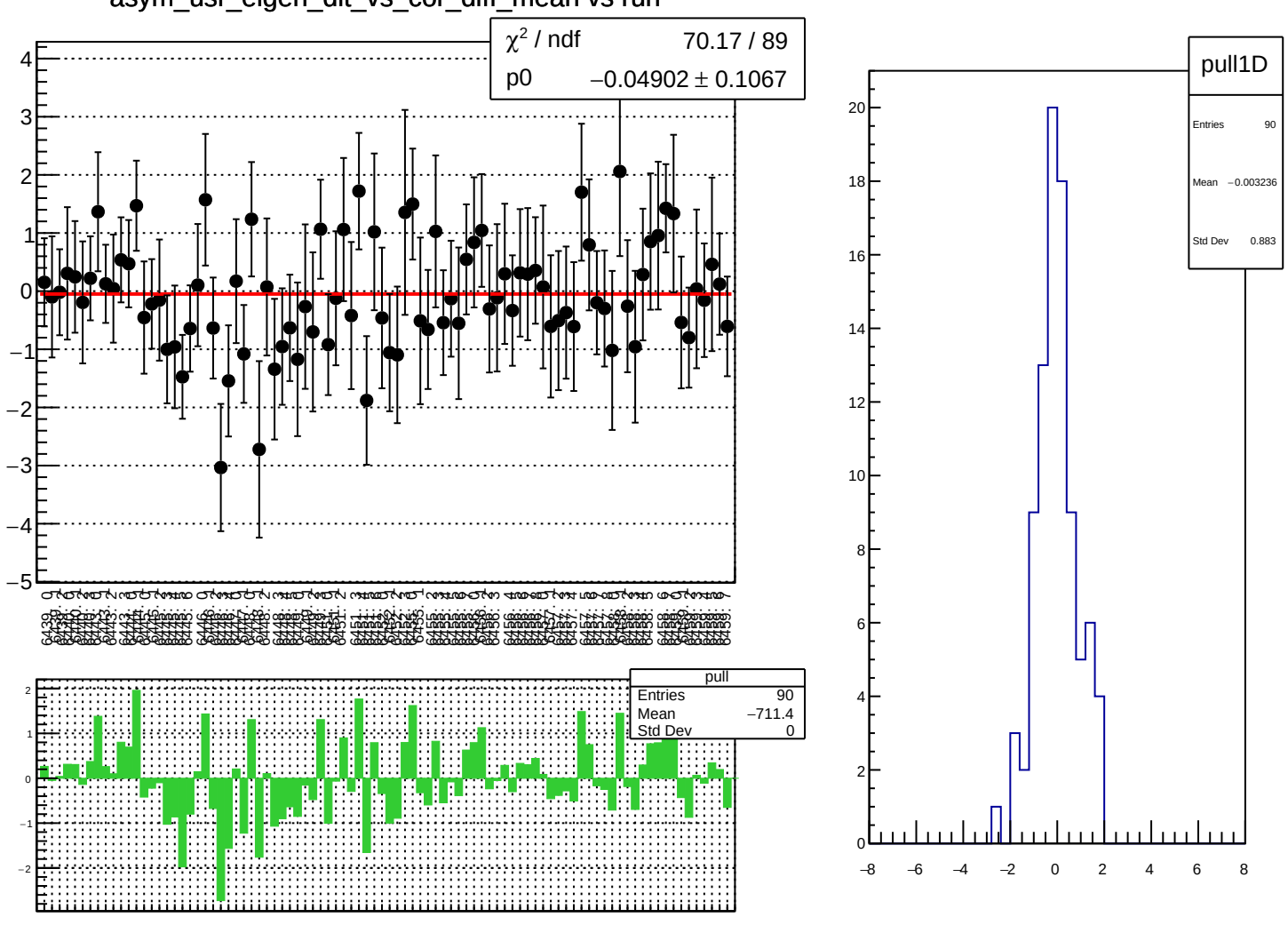

pull1D
Entries 90
Mean −0.02892
Std Dev 0.8932

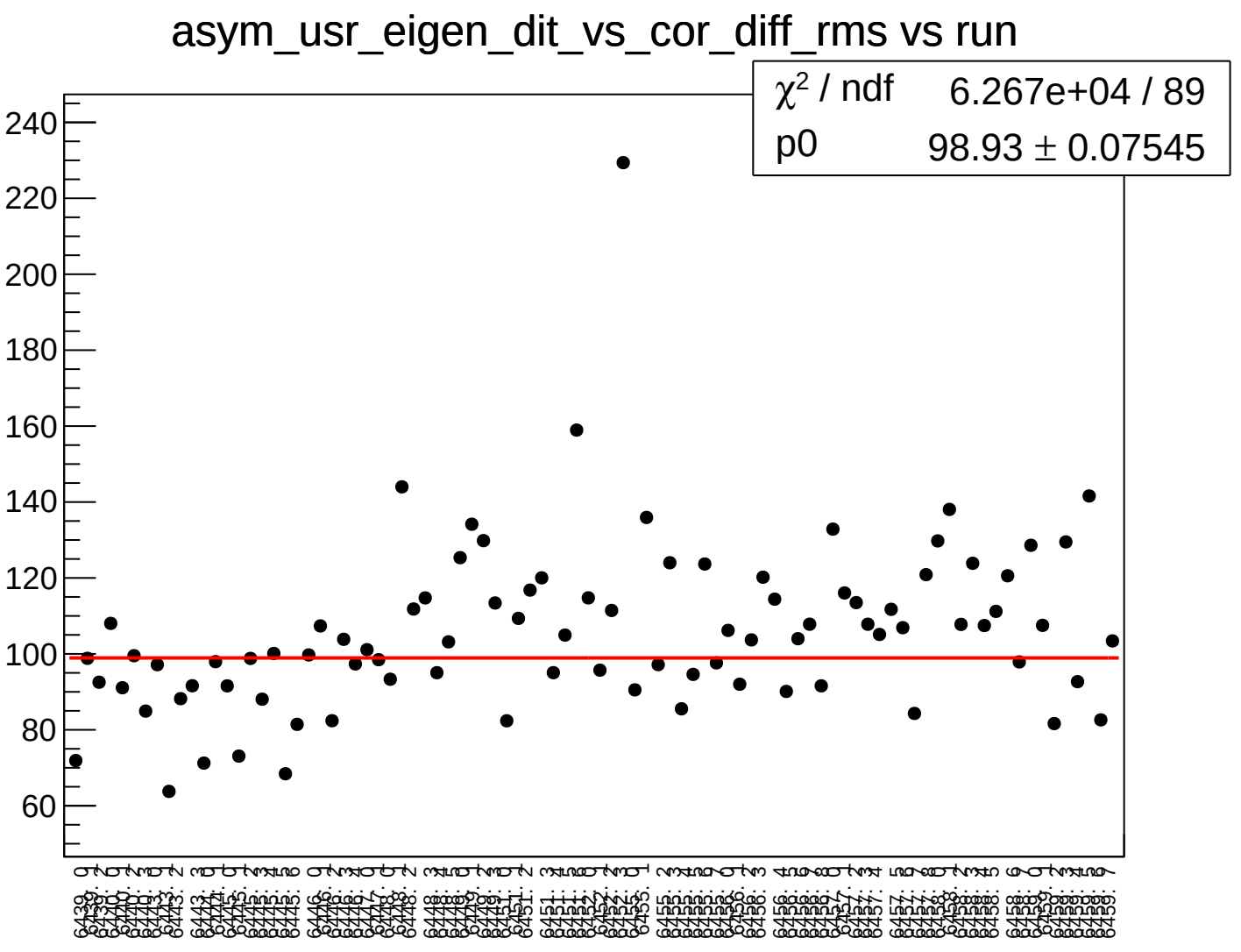

asym_usr_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.808e+04 / 89
p0 136.4 ± 0.103
280
260
240
220
200
180
160
140
120
100

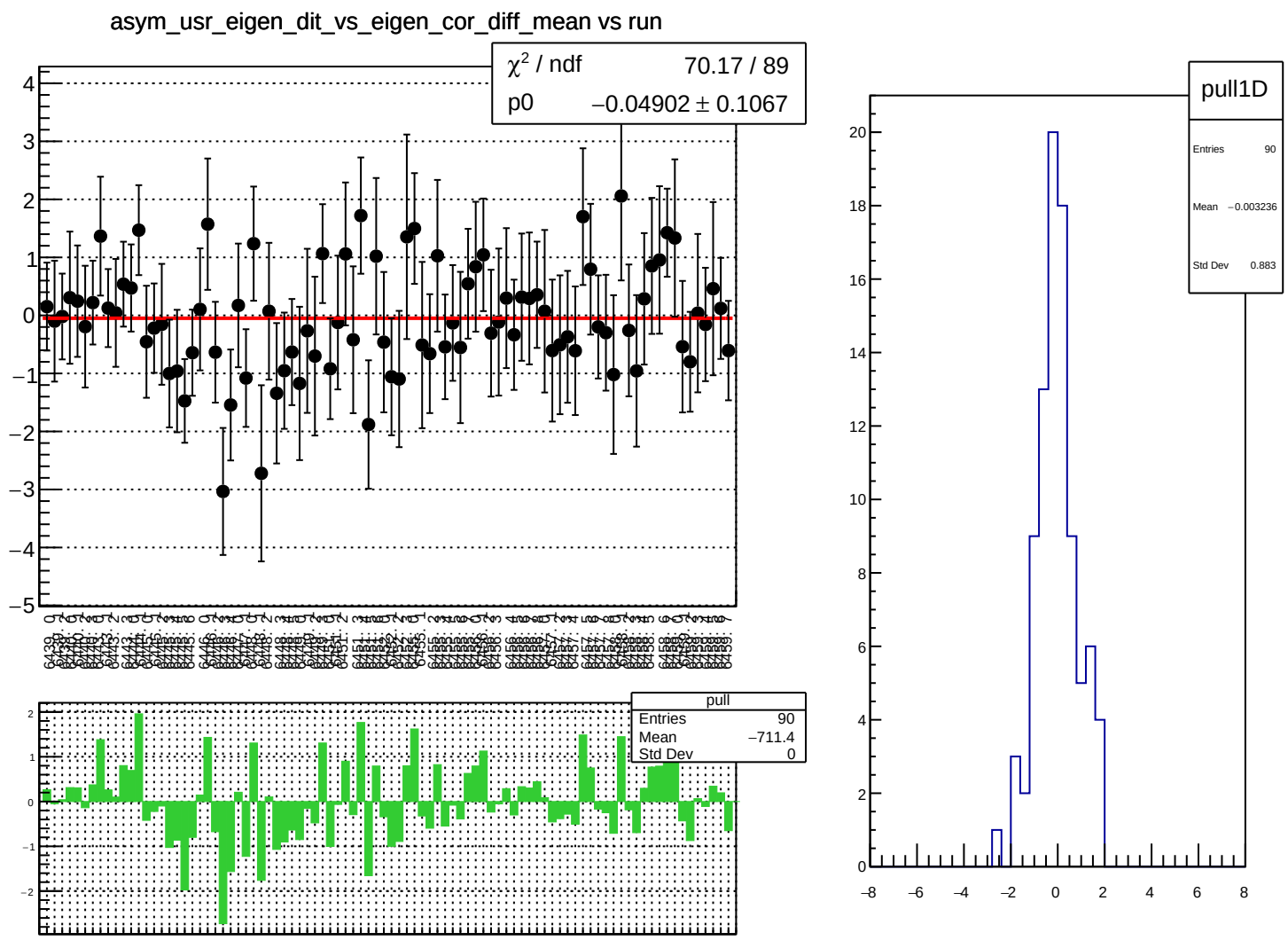

asym_usr_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 71.16 / 89
p0 −2.03e−05 ± 7.102e−06
pull
Entries 90
Mean −113.7
Std Dev 0

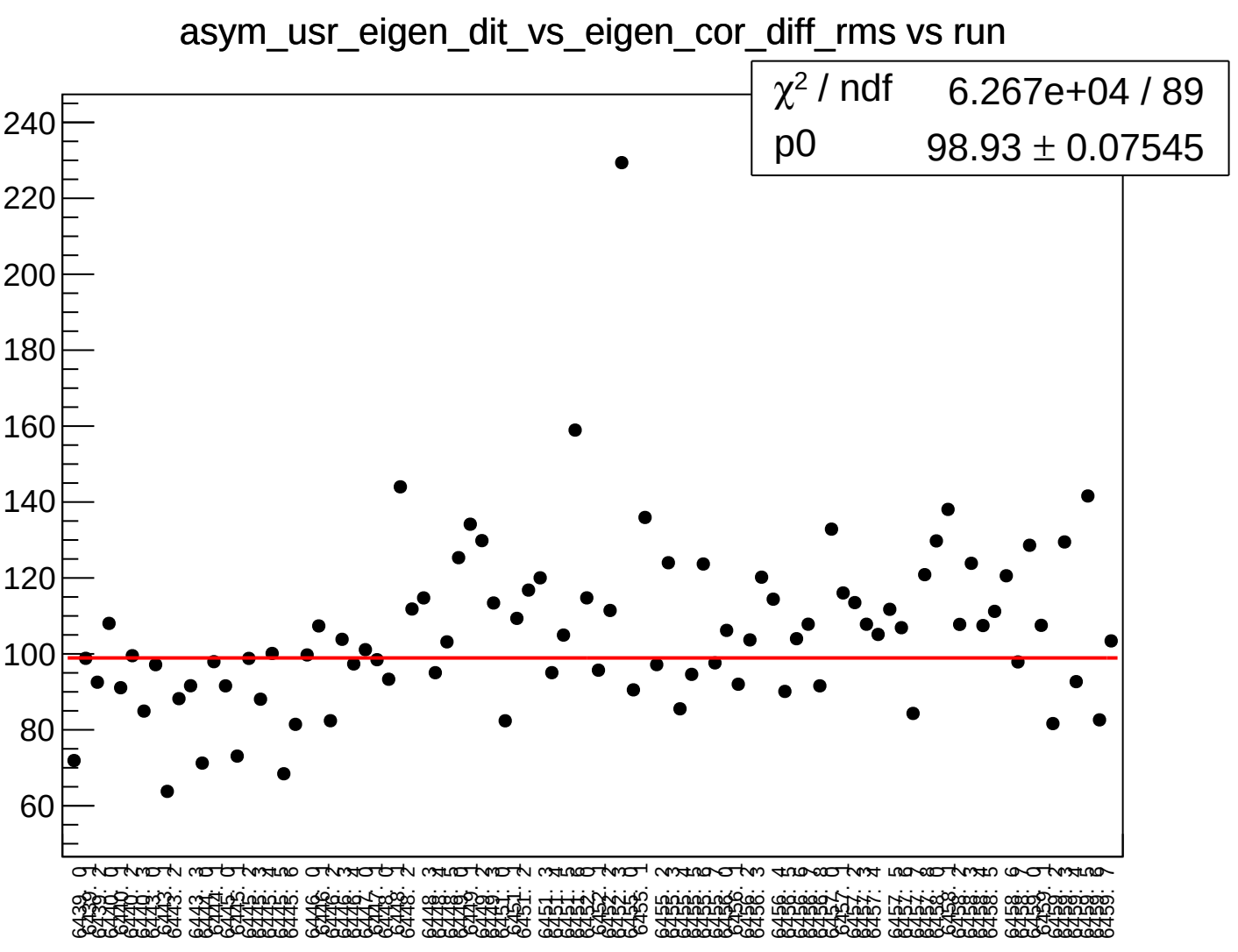

pull1D
Entries 90
Mean −0.009507
Std Dev 0.8892

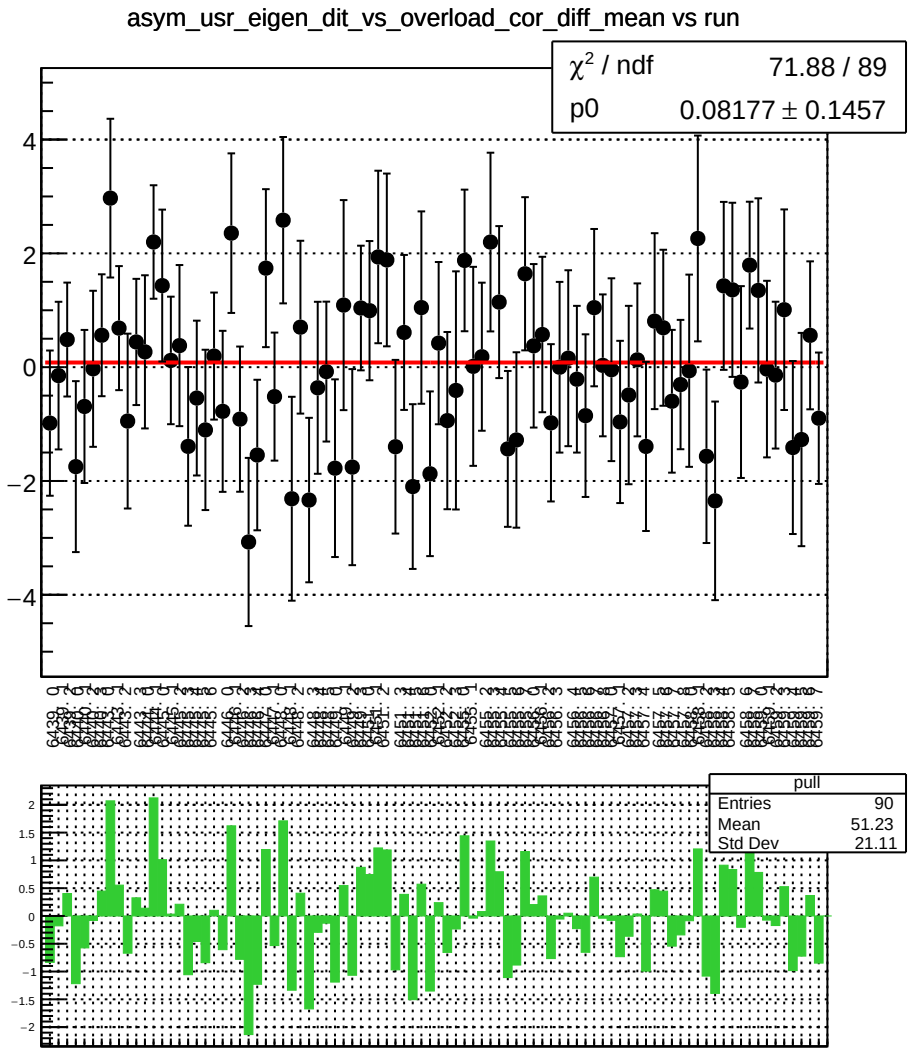

asym_usr_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8763 / 89
p0 0.006688 ± 5.022e−06
0.008
0.0075
0.007
0.0065
0.006

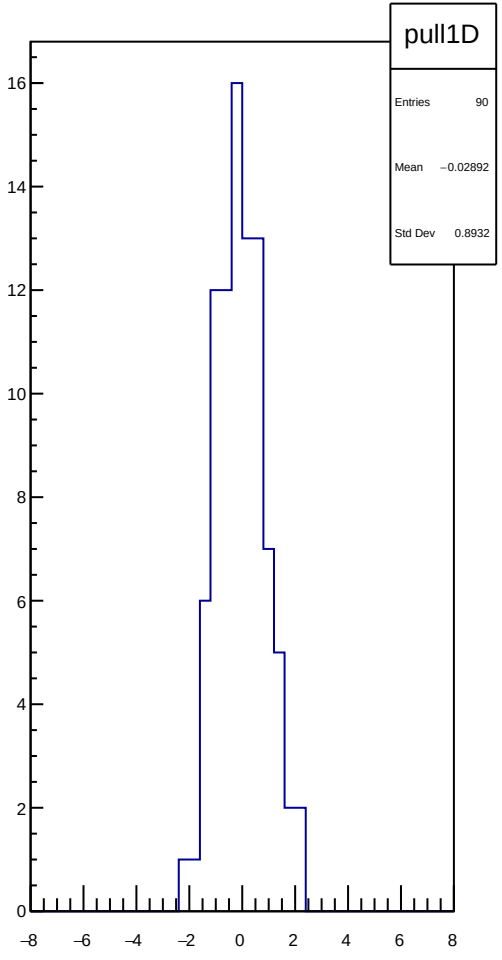

asym_usr_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 70.17 / 89
p0 −0.04902 ± 0.1067
pull
Entries 90
Mean −711.4
Std Dev 0
pull1D
Entries 90
Mean −0.003236
Std Dev 0.883

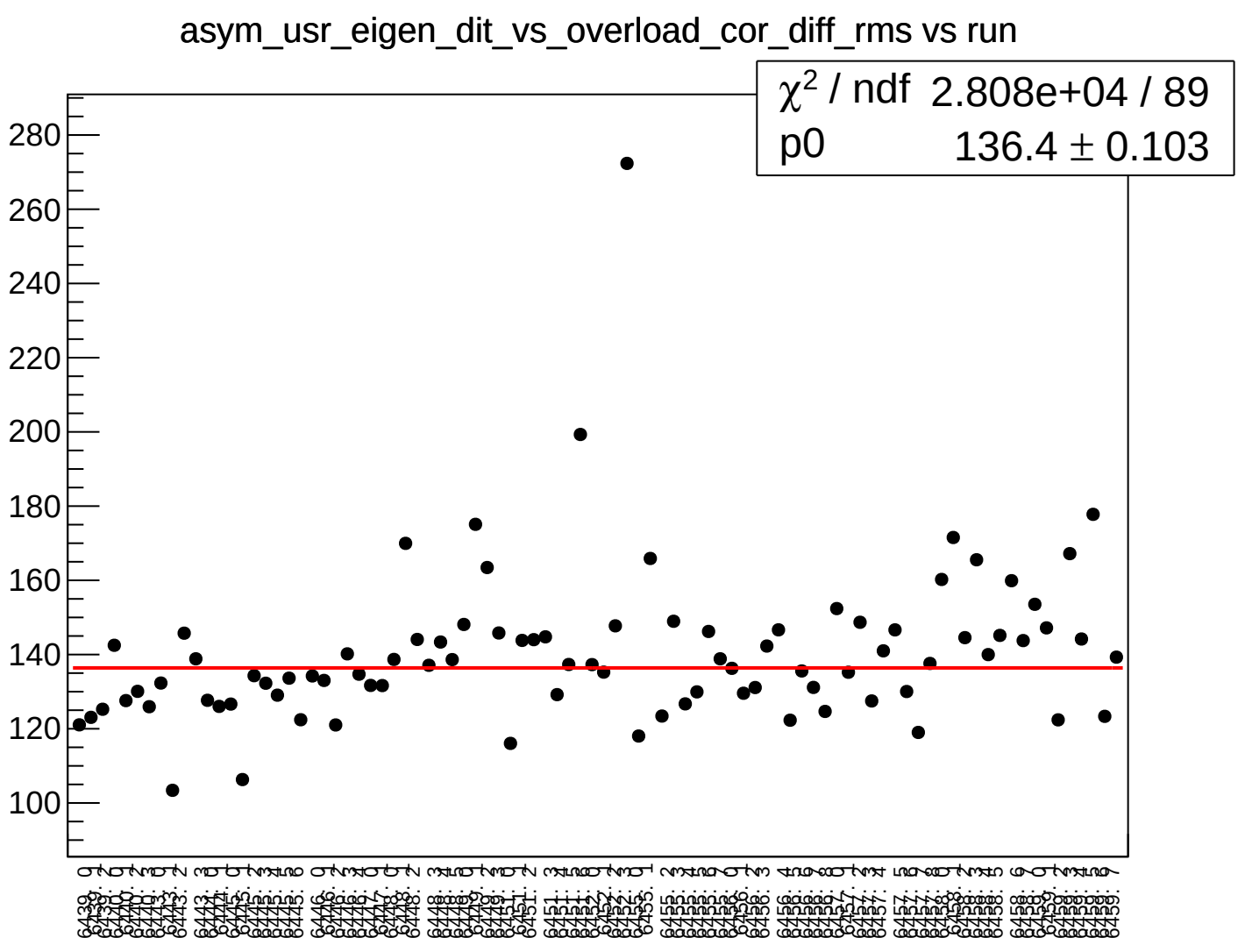

asym_usr_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.267e+04 / 89
p0 98.93 ± 0.07545
240
220
200
180
160
140
120
100
80
60

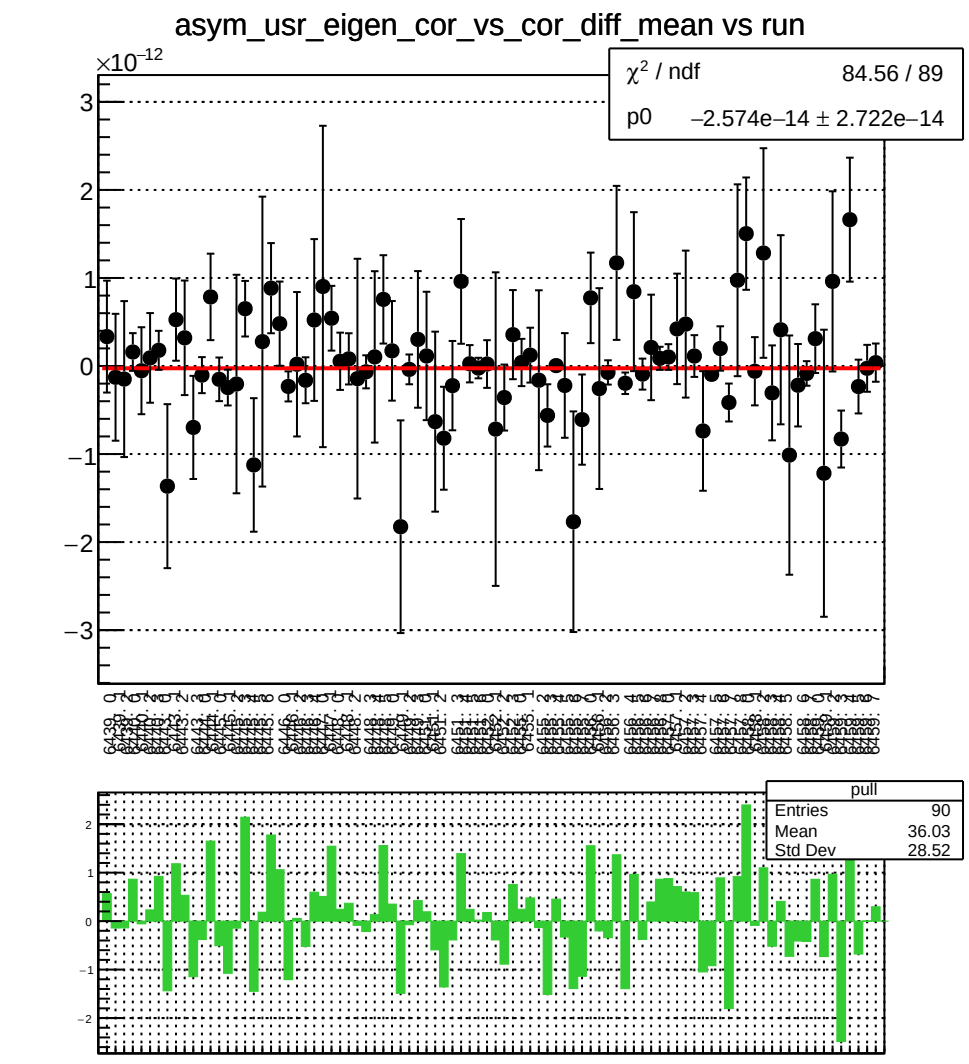

asym_usr_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.17 / 89
p0 −0.04902 ± 0.1067
pull
Entries 90
Mean −711.4
Std Dev 0
pull1D
Entries 90
Mean −0.003236
Std Dev 0.883

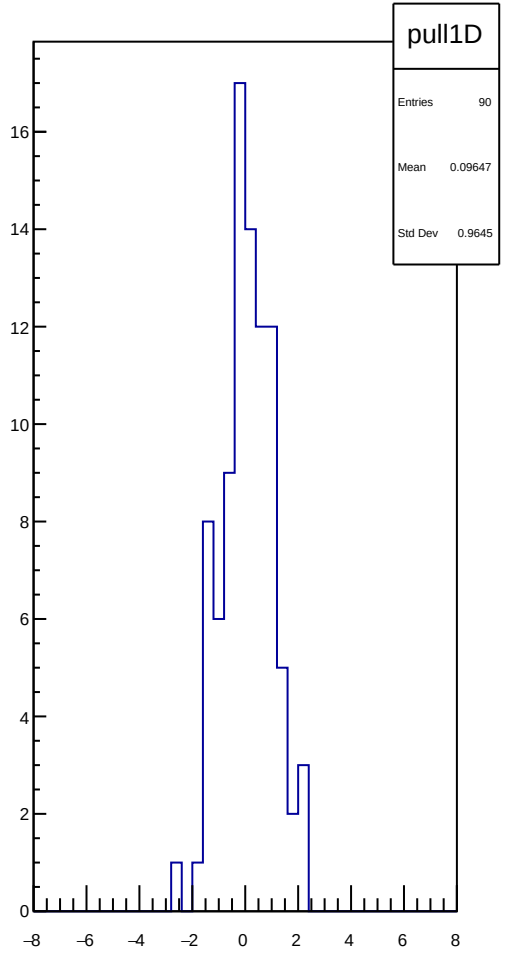

asym_usr_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.267e+04 / 89
p0 98.93 ± 0.07545
240
220
200
180
160
140
120
100
80
60

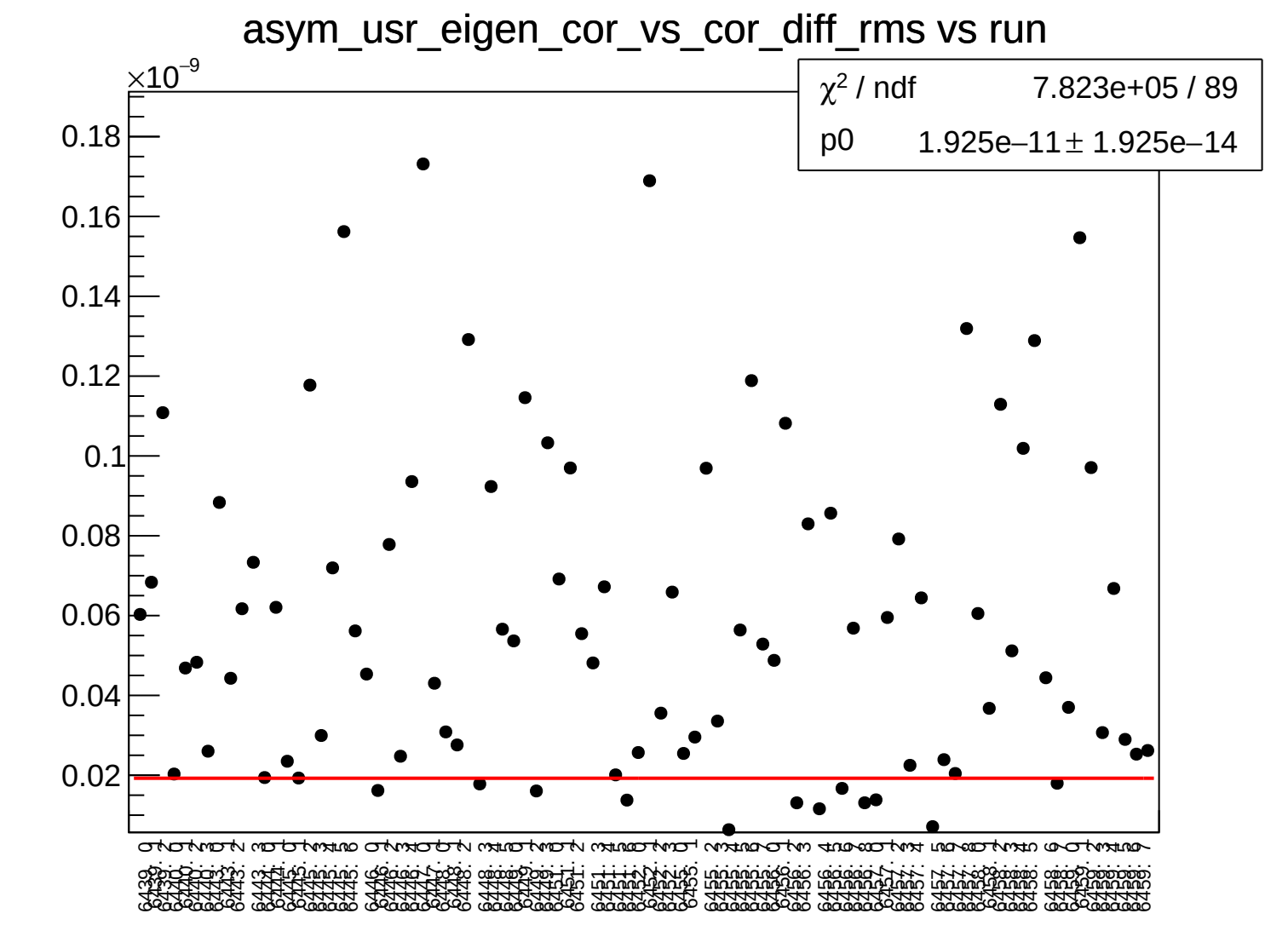

asym_usr_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 71.88 / 89
p0 0.08177 ± 0.1457
pull
Entries 90
Mean 51.23
Std Dev 21.11

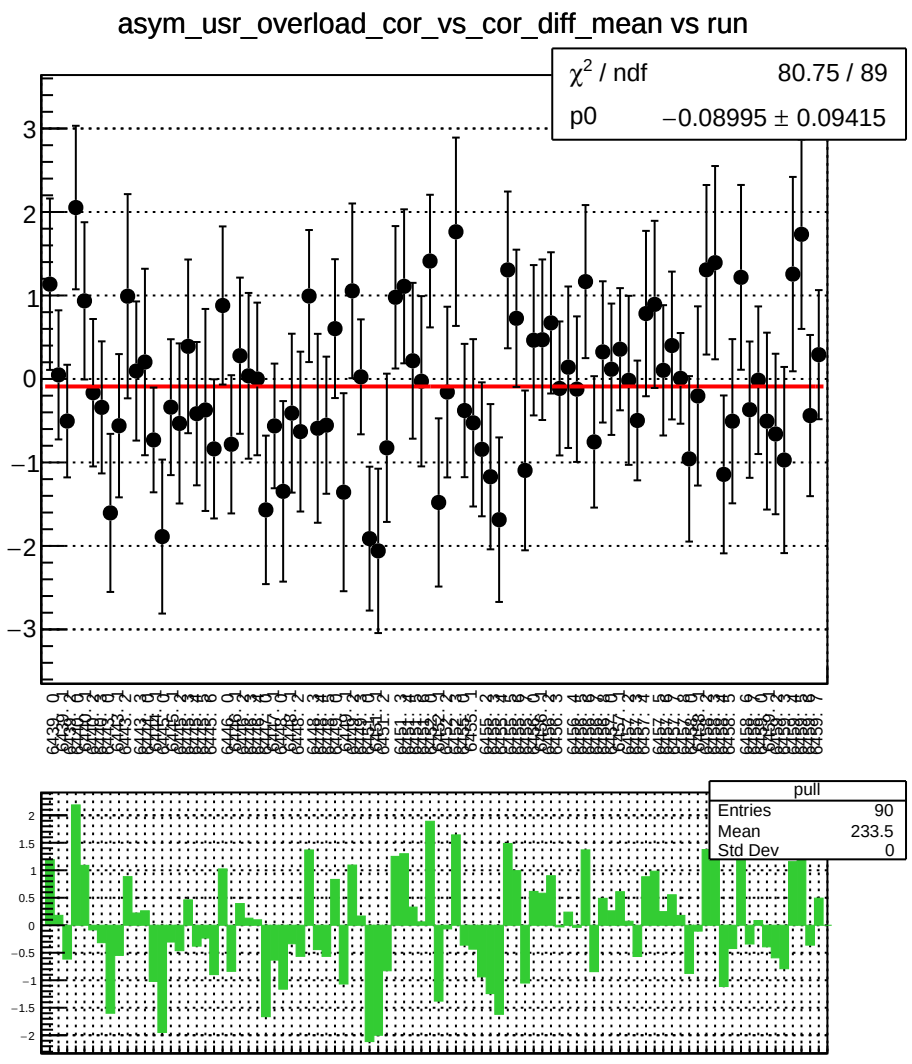

pull1D
Entries 90
Mean −0.02892
Std Dev 0.8932

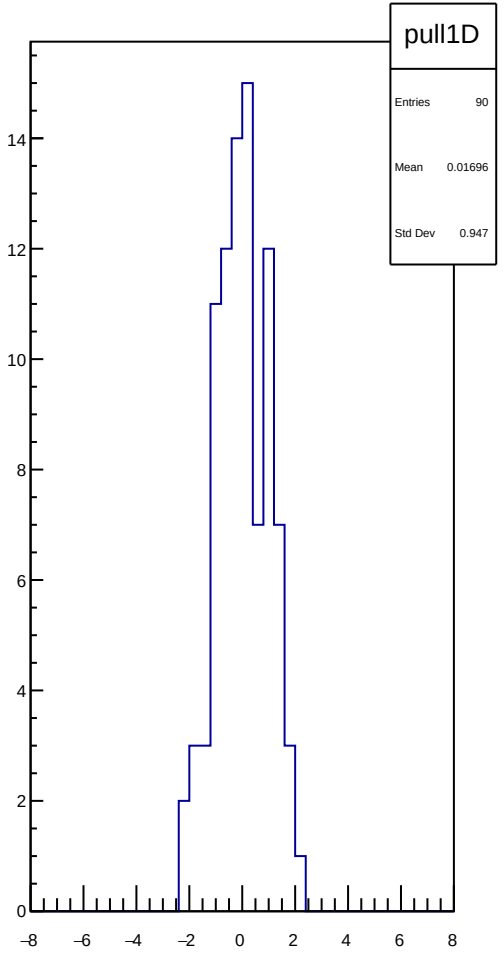

asym_usr_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.808e+04 / 89
p0 136.4 ± 0.103
280
260
240
220
200
180
160
140
120
100

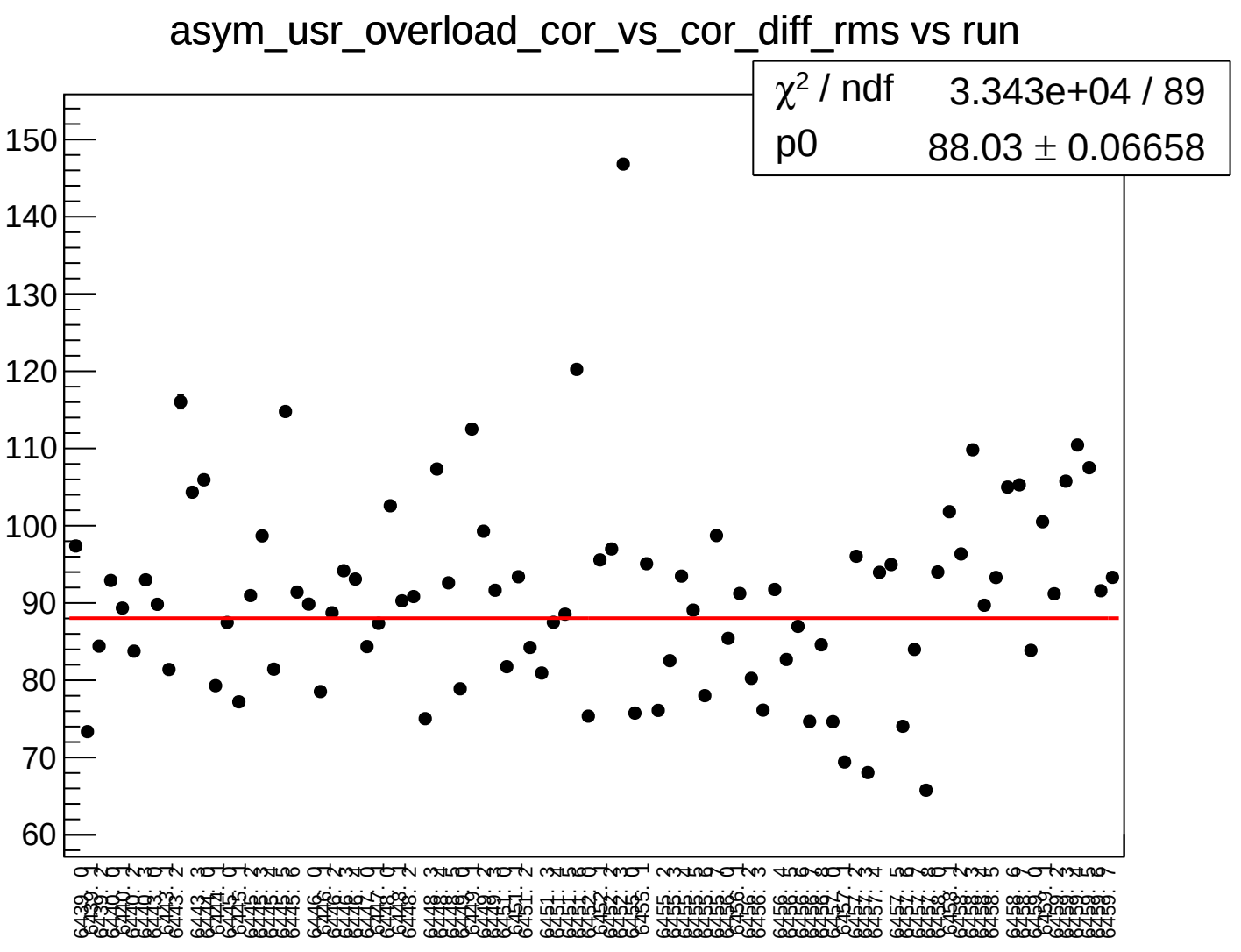

asym_usr_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.56 / 89
p0 −2.574e−14 ± 2.722e−14
pull
Entries 90
Mean 36.03
Std Dev 28.52

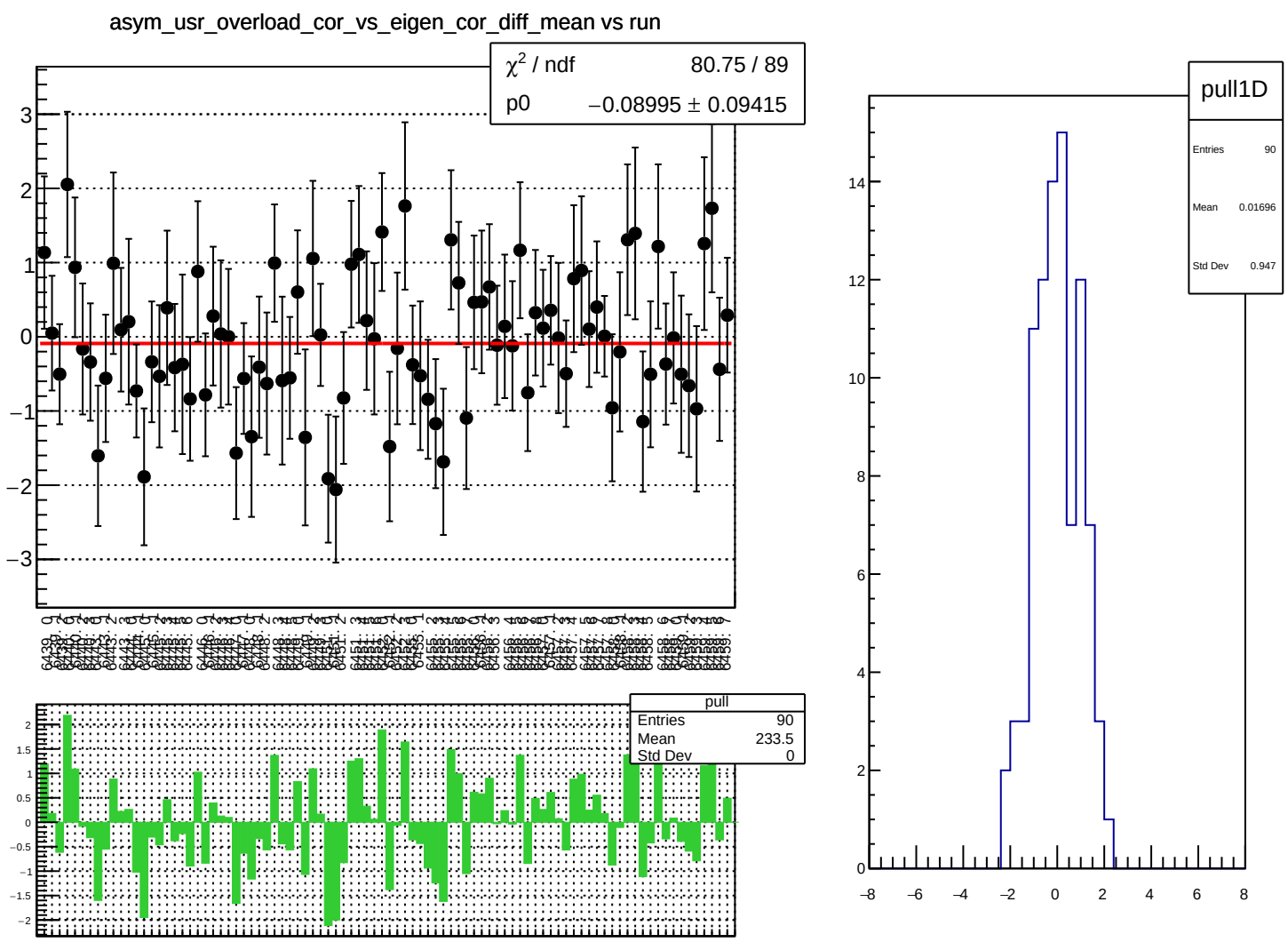

pull1D
Entries 90
Mean 0.09647
Std Dev 0.9645

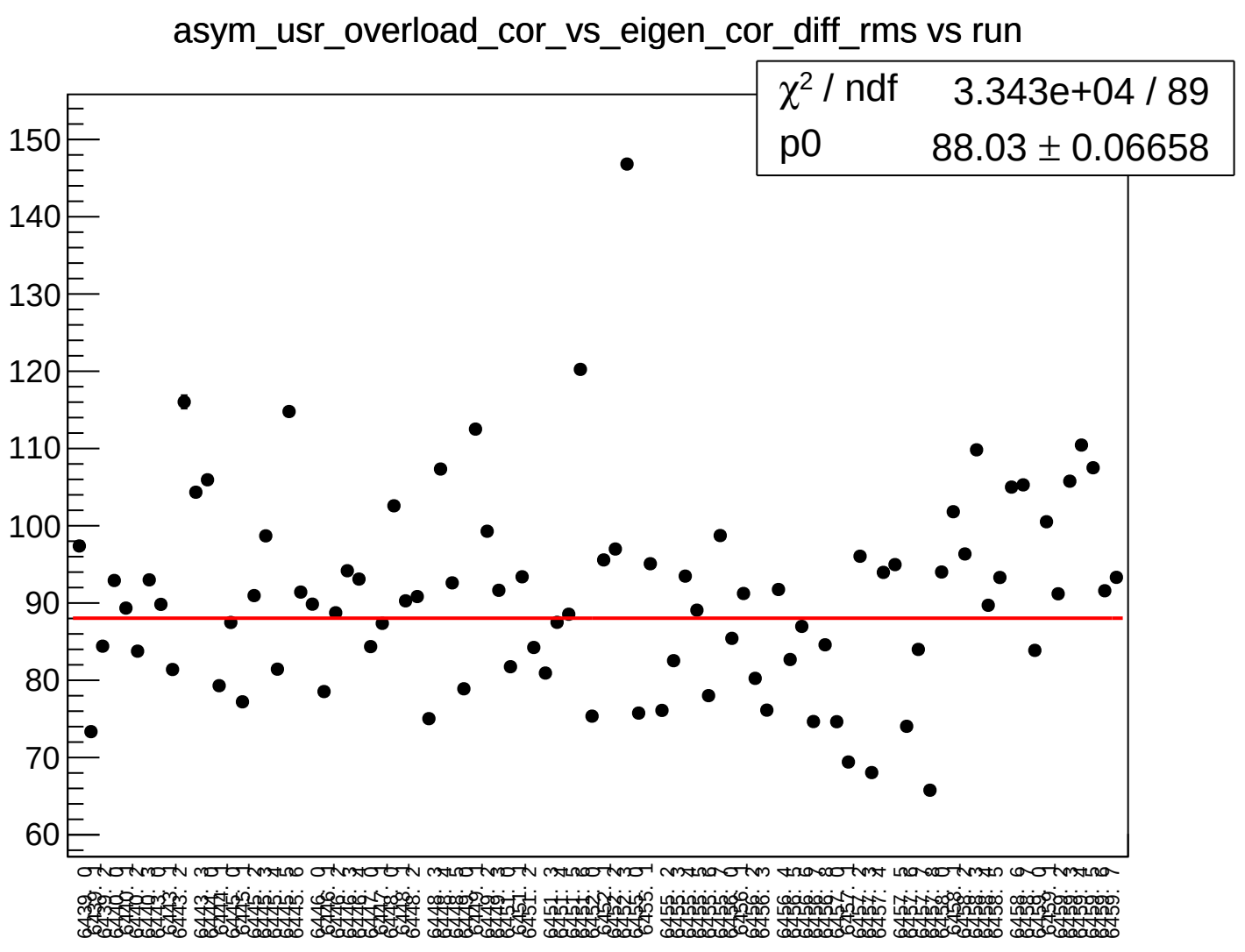

asym_usr_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.823e+05 / 89
p0 1.925e−11 ± 1.925e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

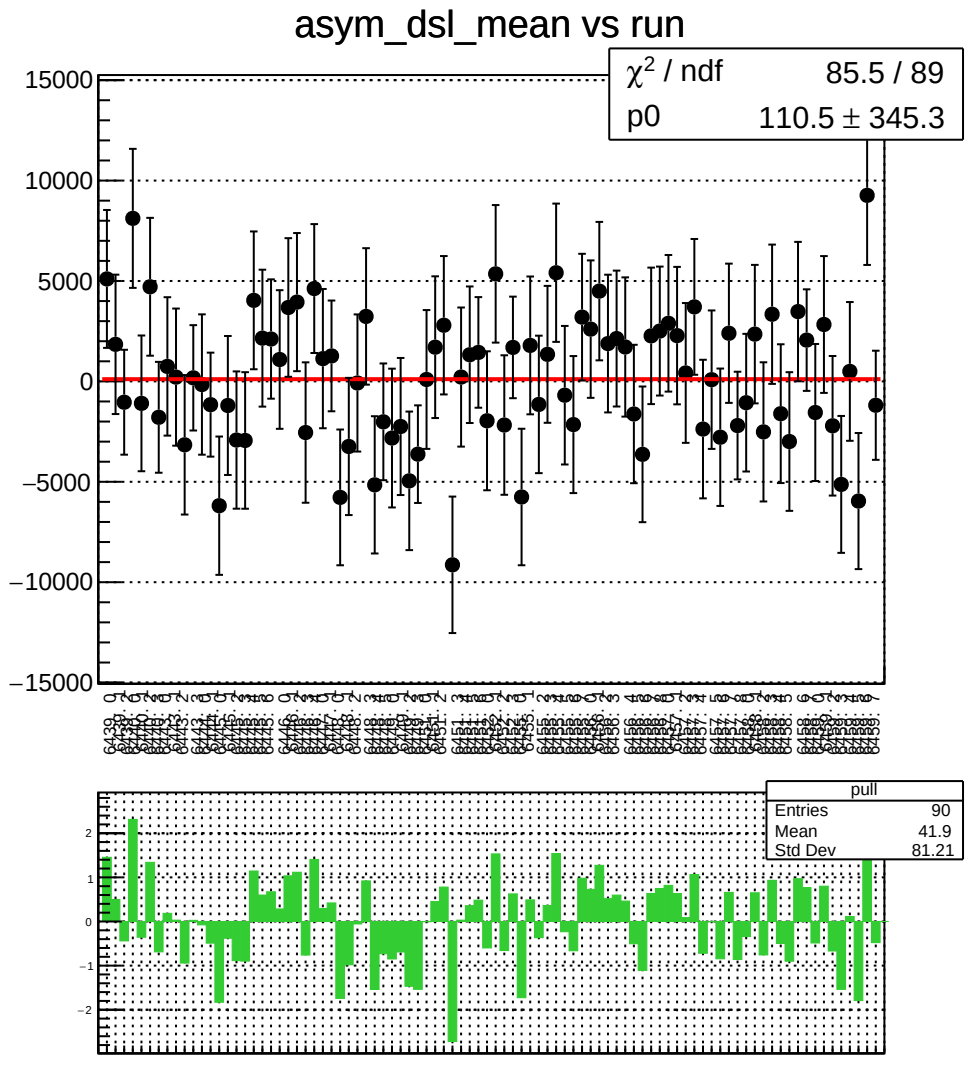

asym_usr_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 80.75 / 89
p0 −0.08995 ± 0.09415
pull
Entries 90
Mean 233.5
Std Dev 0

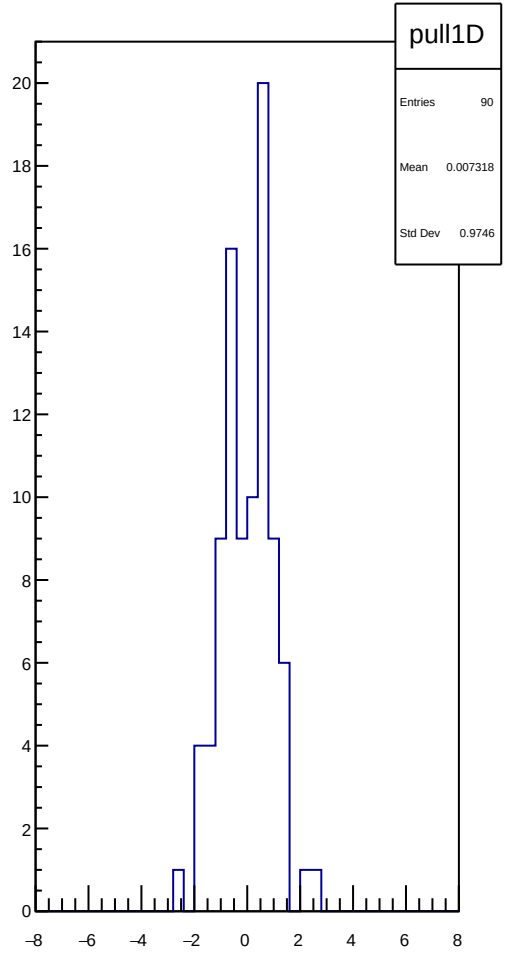

pull1D
Entries 90
Mean 0.01696
Std Dev 0.947

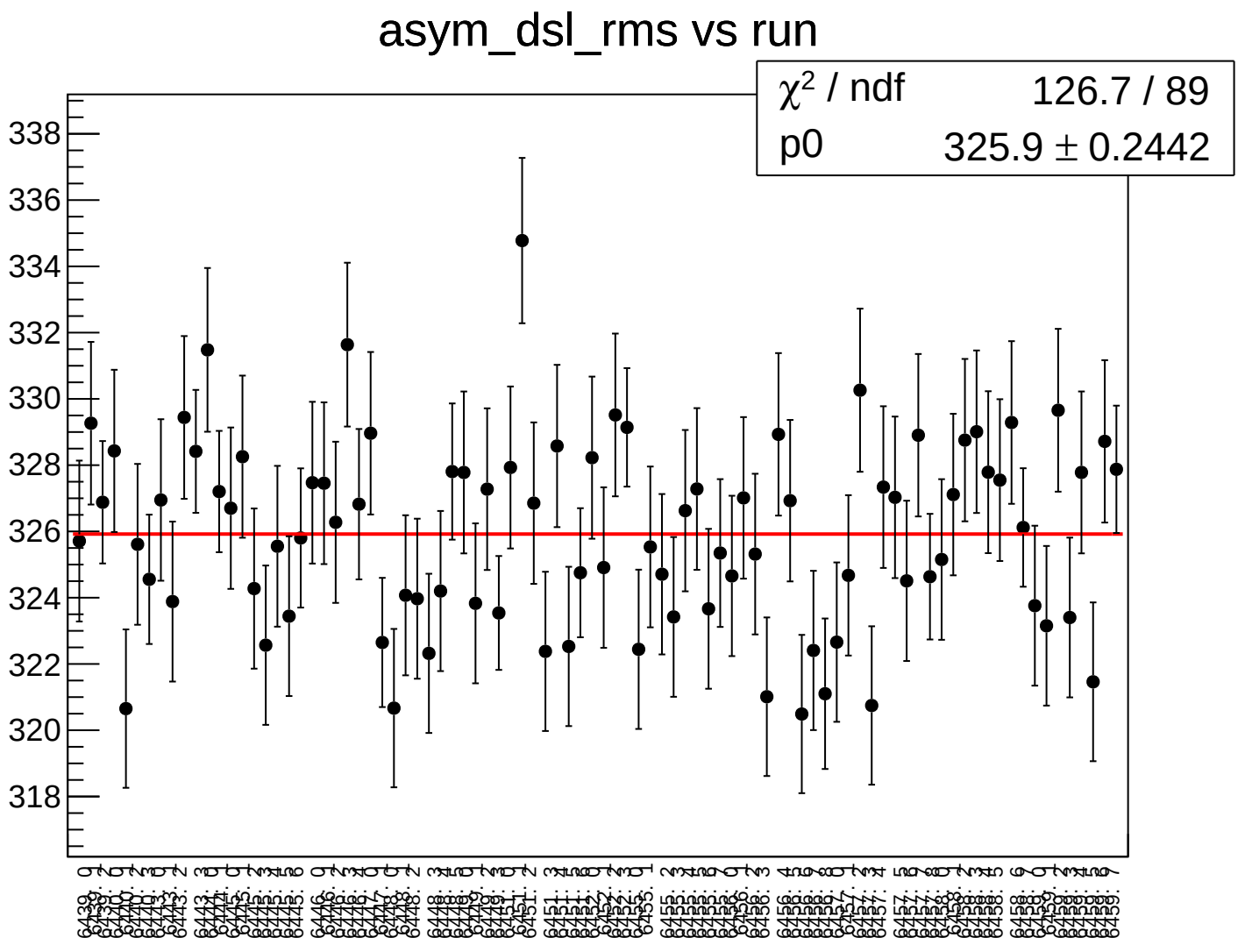

asym_usr_overload_cor_vs_cor_diff_rms vs run
χ^2 / ndf 3.343e+04 / 89
p0 88.03 ± 0.06658
150
140
130
120
110
100
90
80
70
60

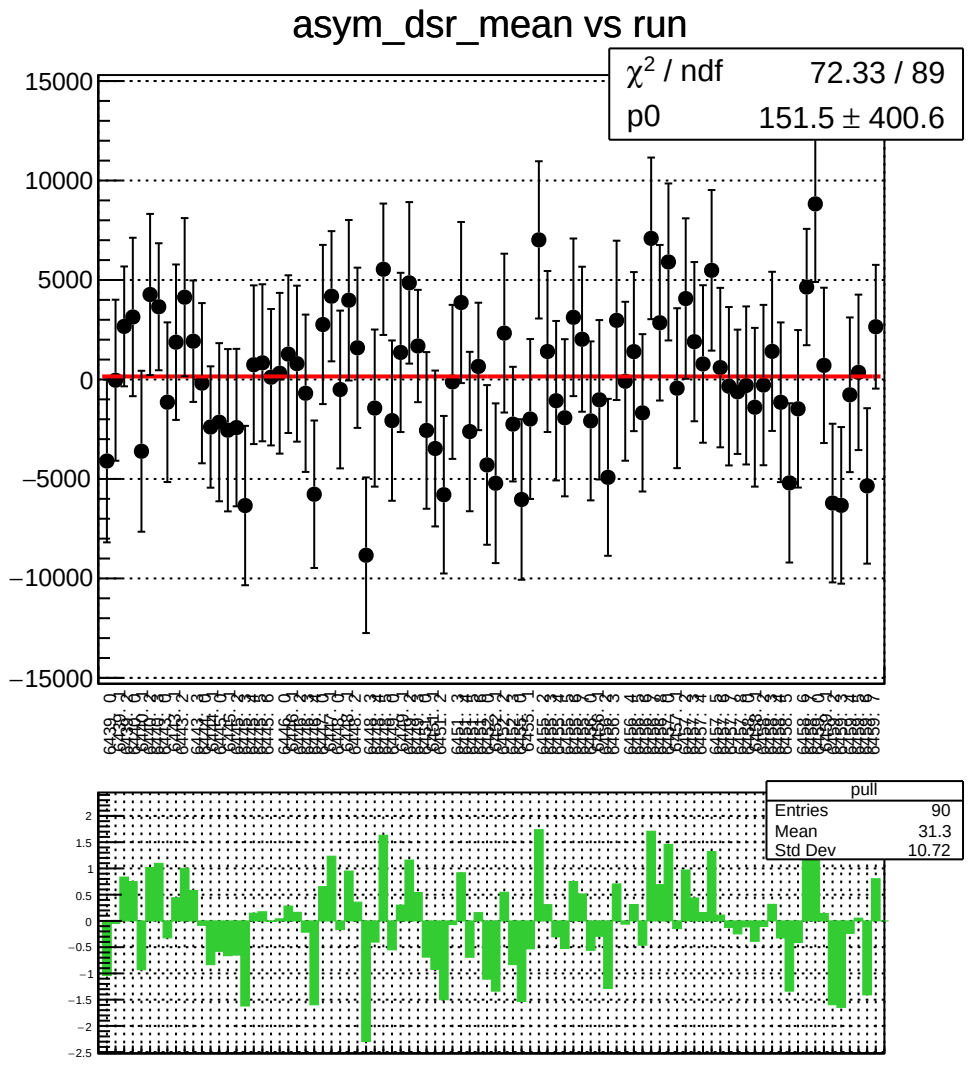

asym_usr_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.75 / 89
p0 −0.08995 ± 0.09415
pull
Entries 90
Mean 233.5
Std Dev 0
pull1D
Entries 90
Mean 0.01696
Std Dev 0.947

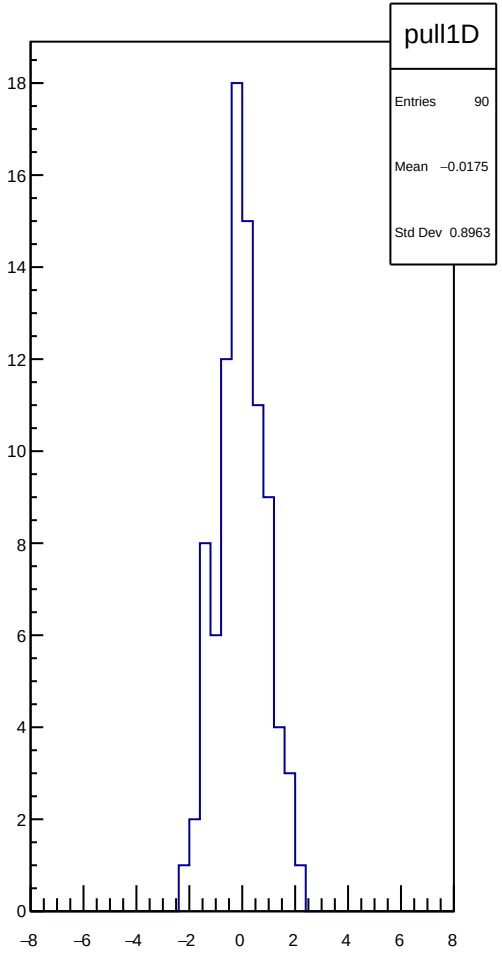

asym_usr_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.343e+04 / 89
p0 88.03 ± 0.06658
150
140
130
120
110
100
90
80
70
60

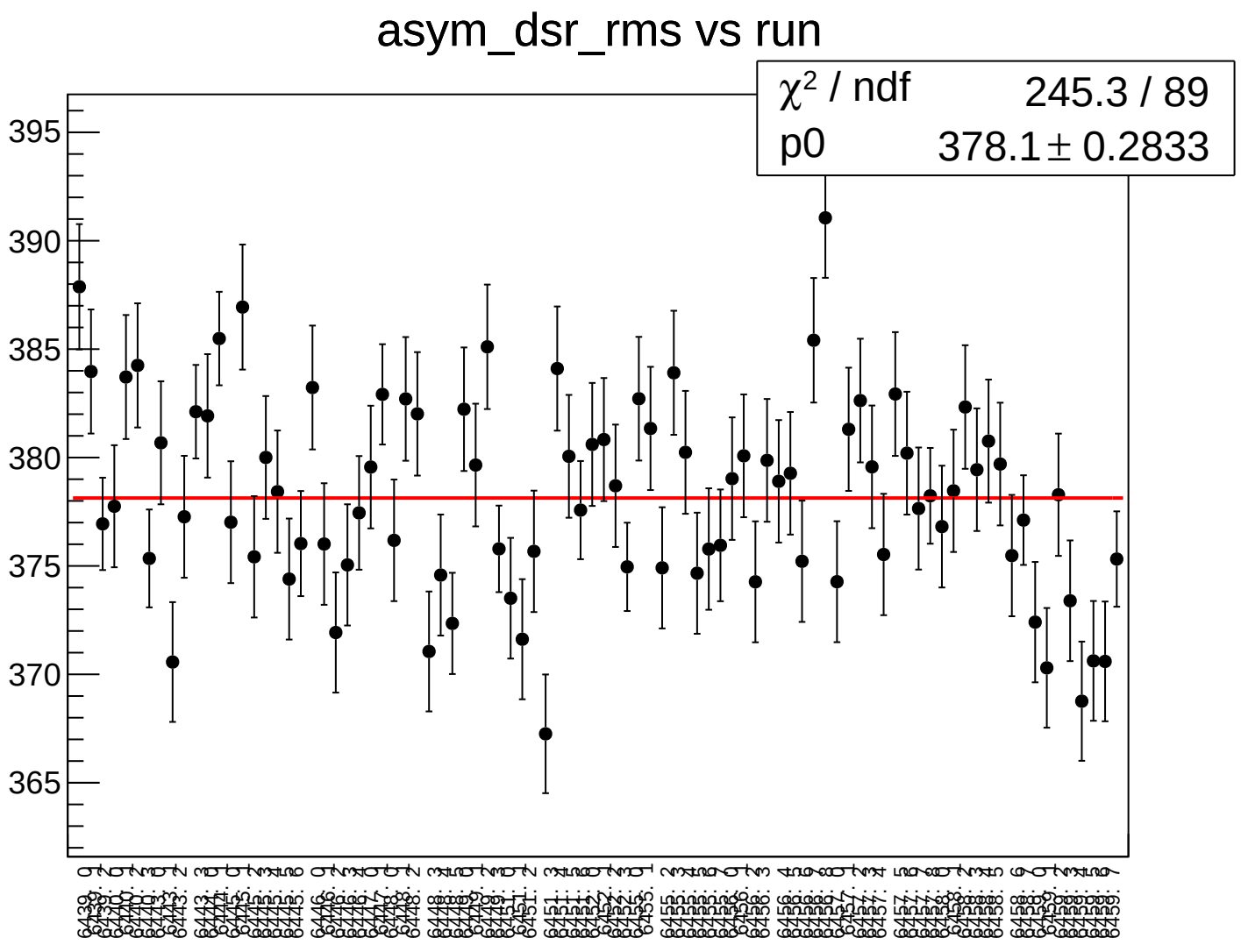

asym_dsl_mean vs run
χ² / ndf 85.5 / 89
p0 110.5 ± 345.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 90
Mean 41.9
Std Dev 81.21
2
1
0
−1
−2

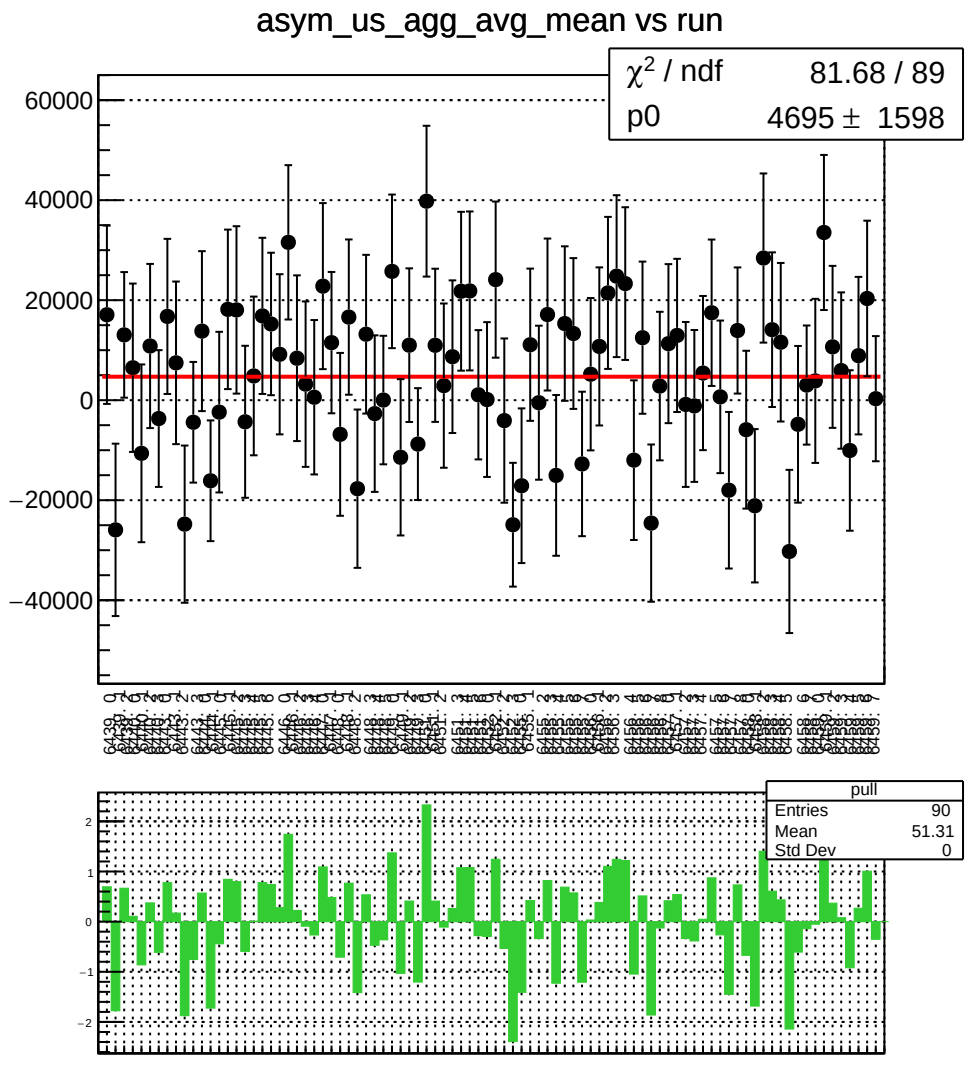

pull1D
Entries 90
Mean 0.007318
Std Dev 0.9746
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

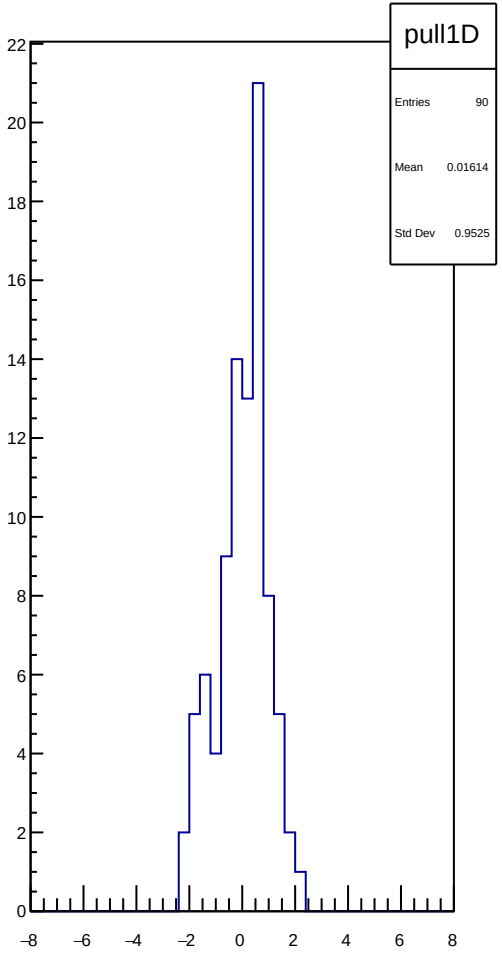

asym_dsl_rms vs run
χ^2 / ndf 126.7 / 89
p0 325.9 ± 0.2442
338
336
334
332
330
328
326
324
322
320
318

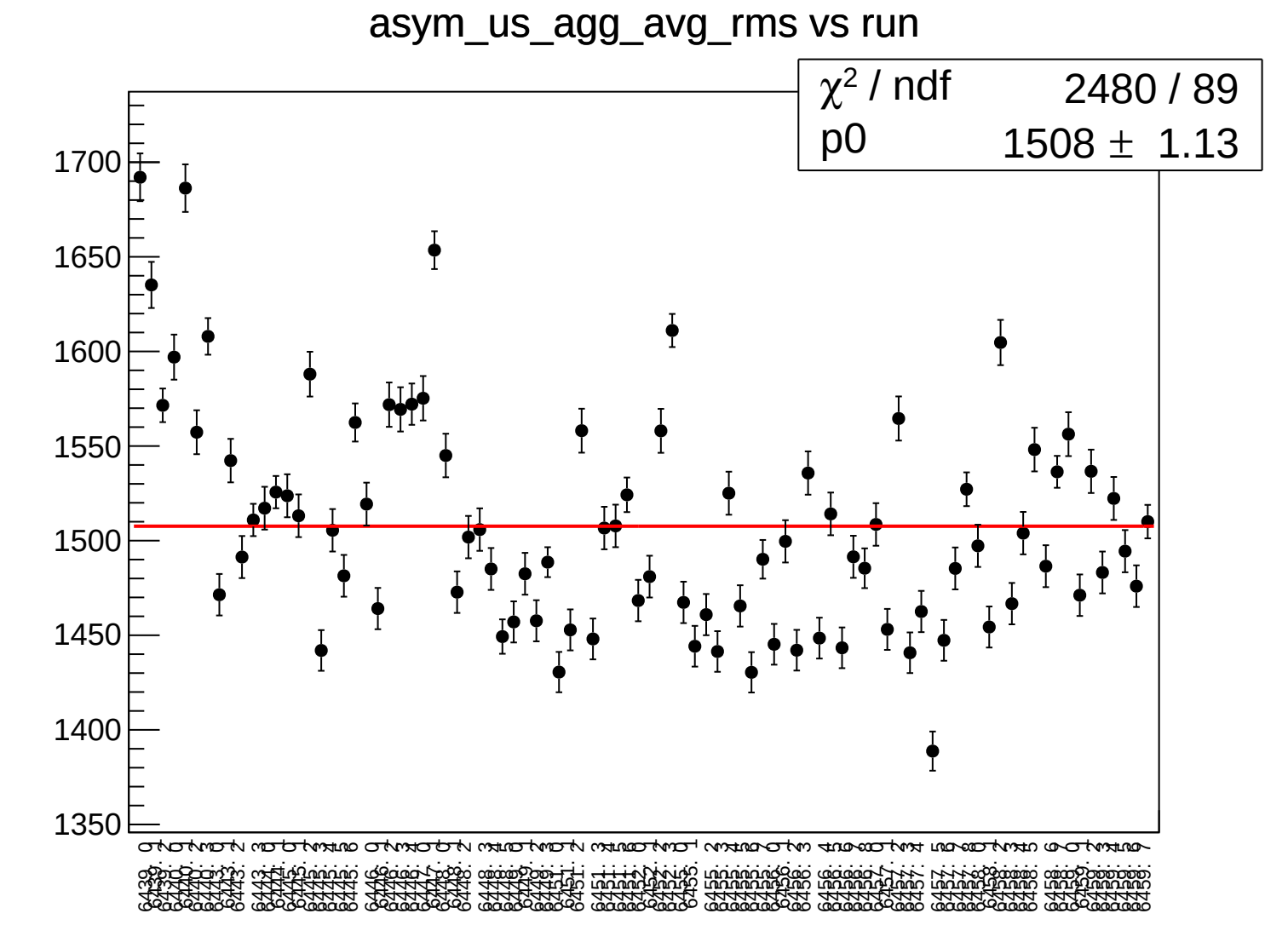

asym_dsr_mean vs run
χ² / ndf 72.33 / 89
p0 151.5 ± 400.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 90
Mean 31.3
Std Dev 10.72
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

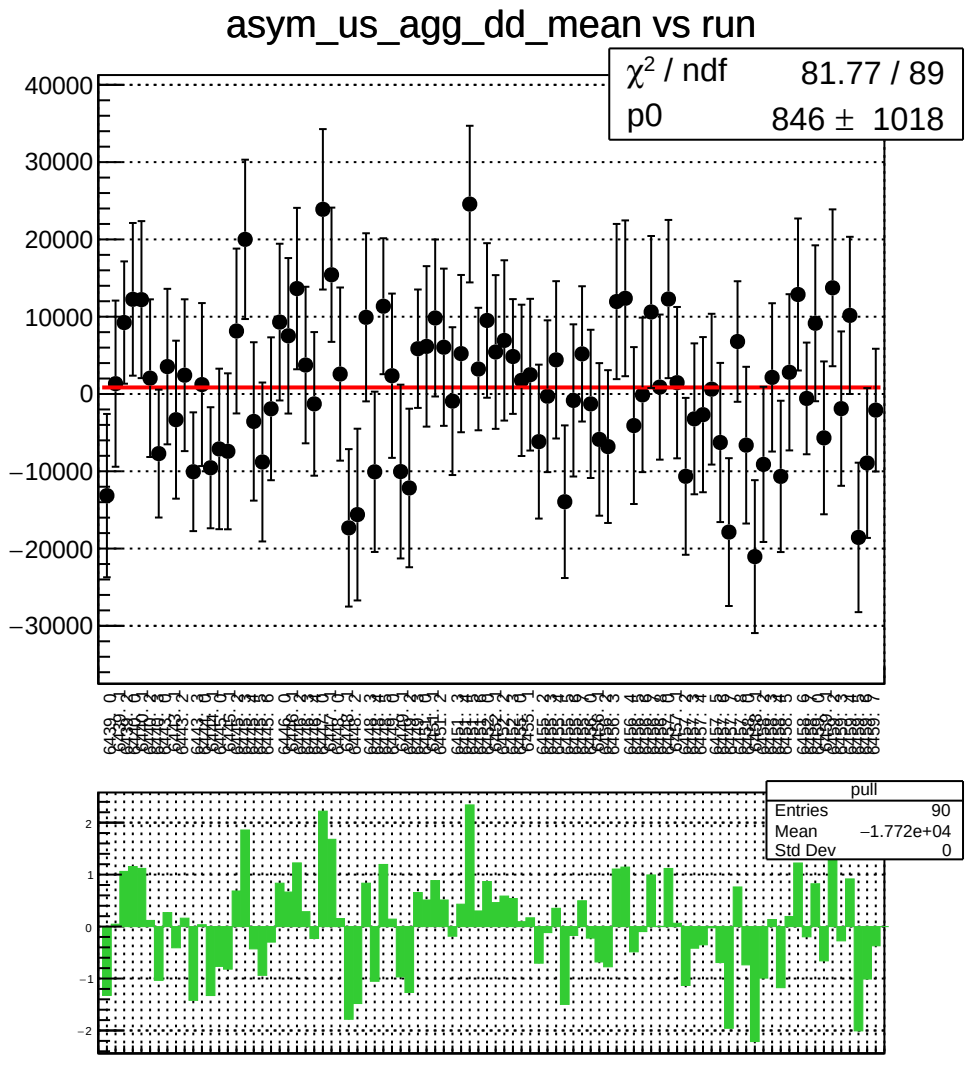

pull1D
Entries 90
Mean −0.0175
Std Dev 0.8963
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

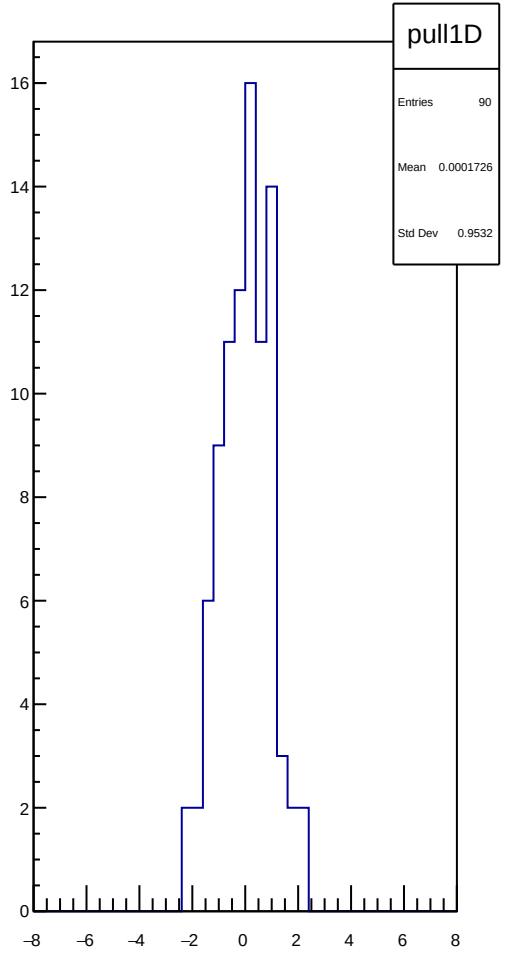

asym_dsr_rms vs run
χ^2 / ndf 245.3 / 89
p0 378.1 ± 0.2833
395
390
385
380
375
370
365

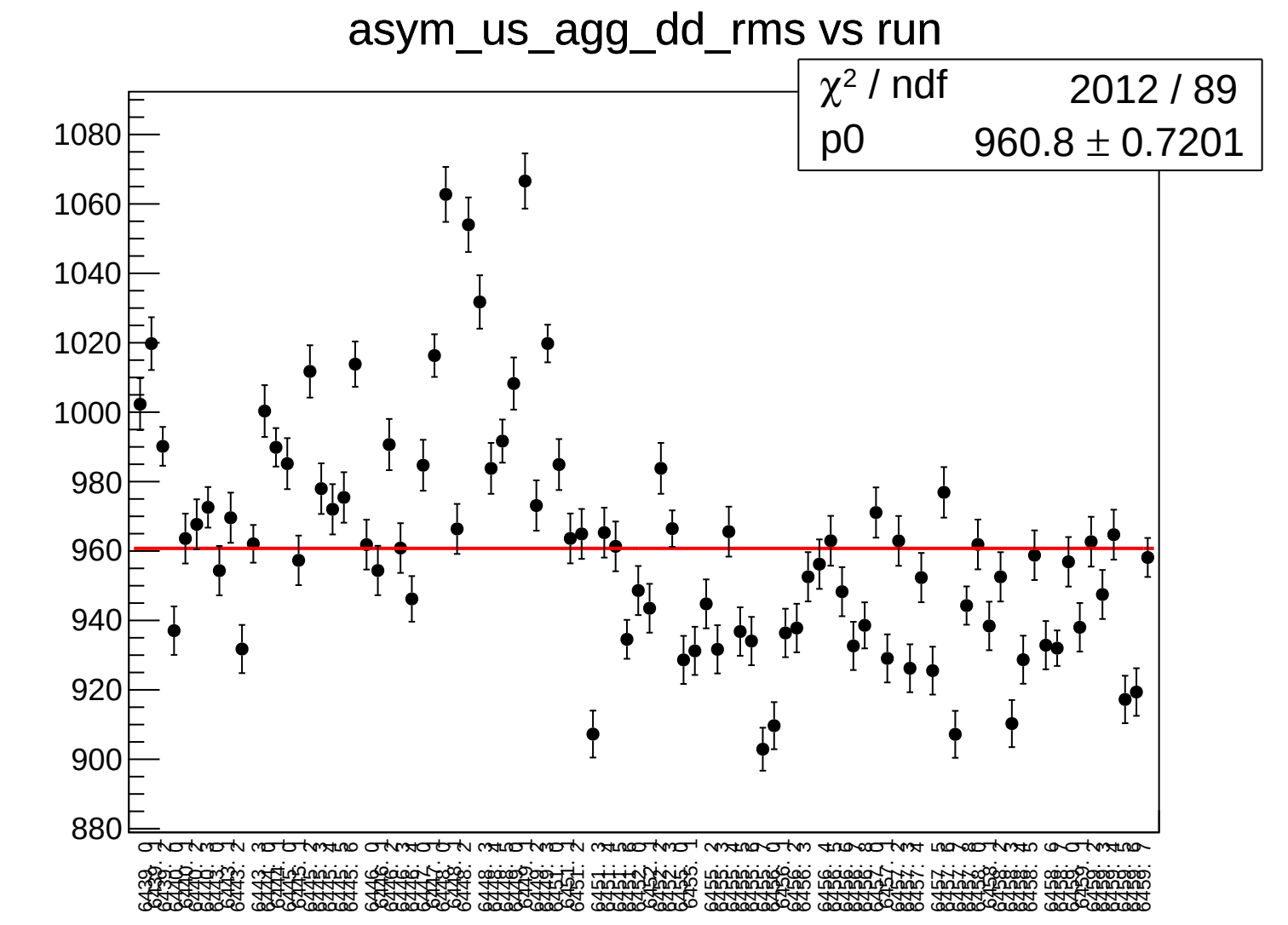

asym_us_agg_avg_mean vs run
χ² / ndf 81.68 / 89
p0 4695 ± 1598
60000
40000
20000
0
−20000
−40000
pull
Entries 90
Mean 51.31
Std Dev 0
2
1
0
−1
−2

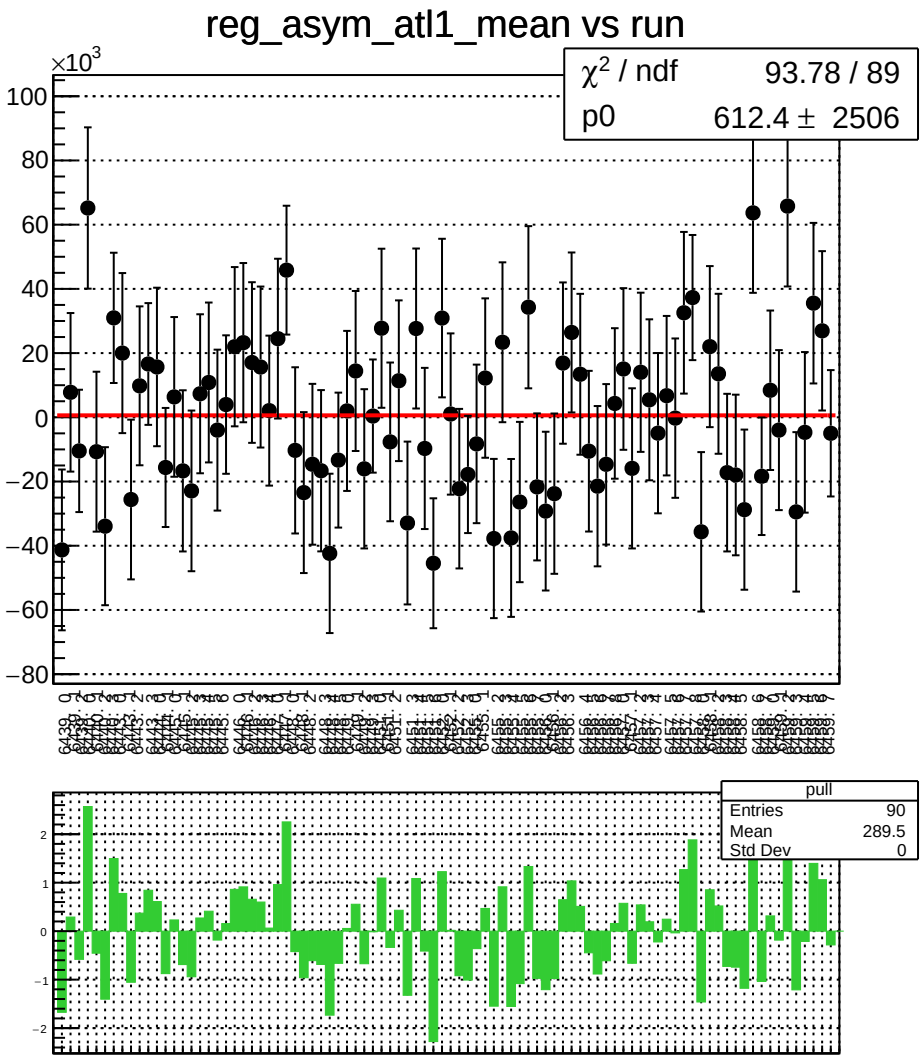

pull1D
Entries 90
Mean 0.01614
Std Dev 0.9525
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

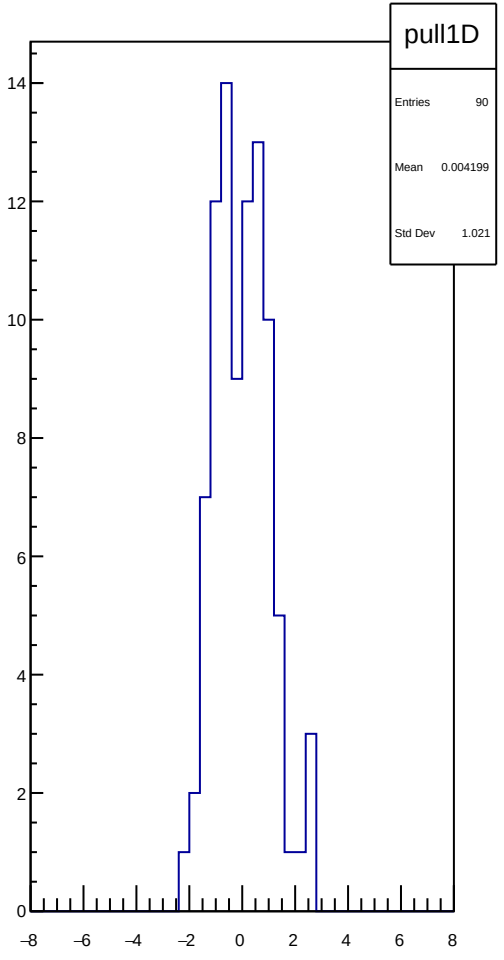

asym_us_agg_avg_rms vs run
χ² / ndf 2480 / 89
p0 1508 ± 1.13
1700
1650
1600
1550
1500
1450
1400
1350

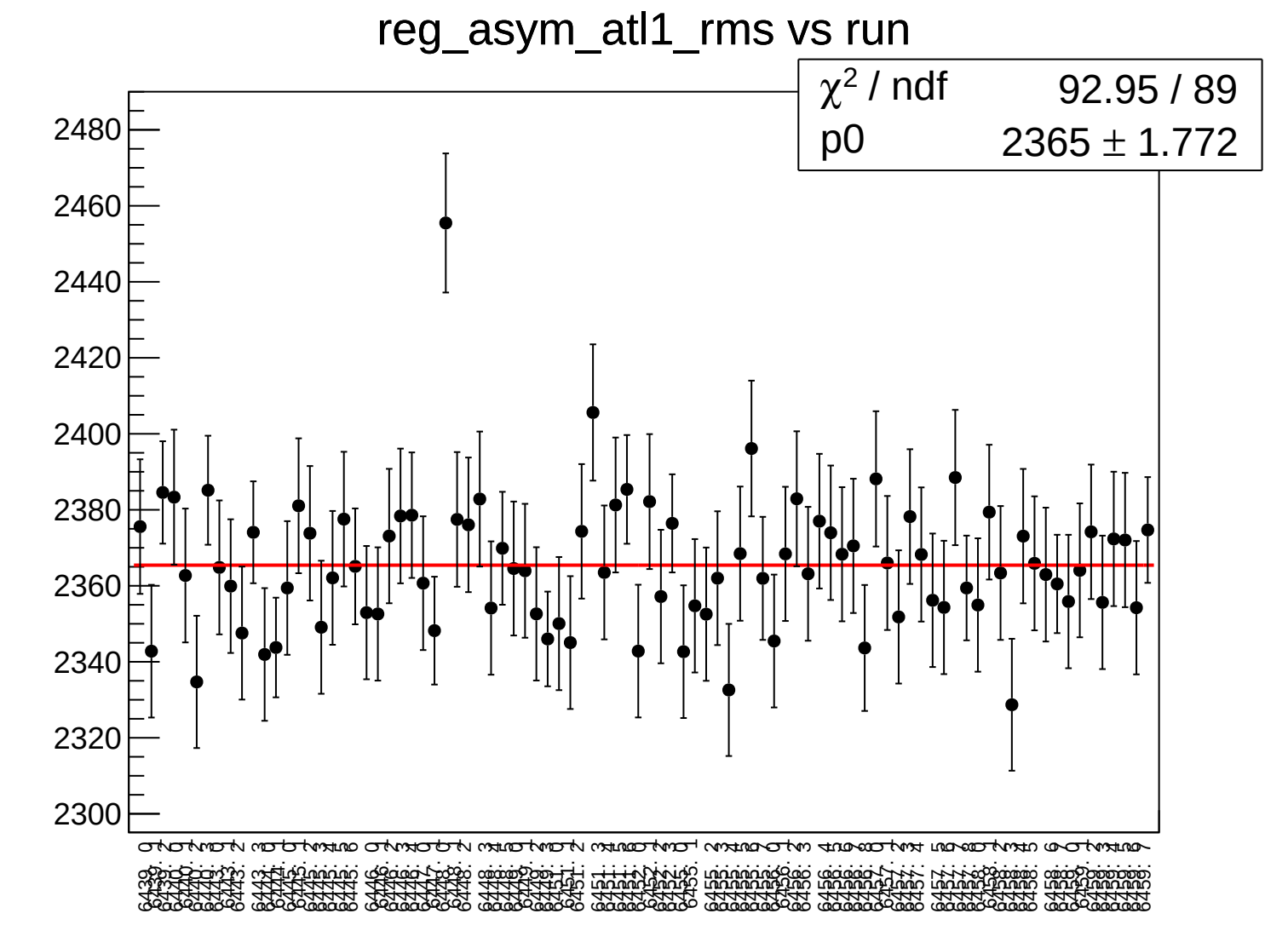

asym_us_agg_dd_mean vs run
χ² / ndf 81.77 / 89
p0 846 ± 1018
pull
Entries 90
Mean −1.772e+04
Std Dev 0

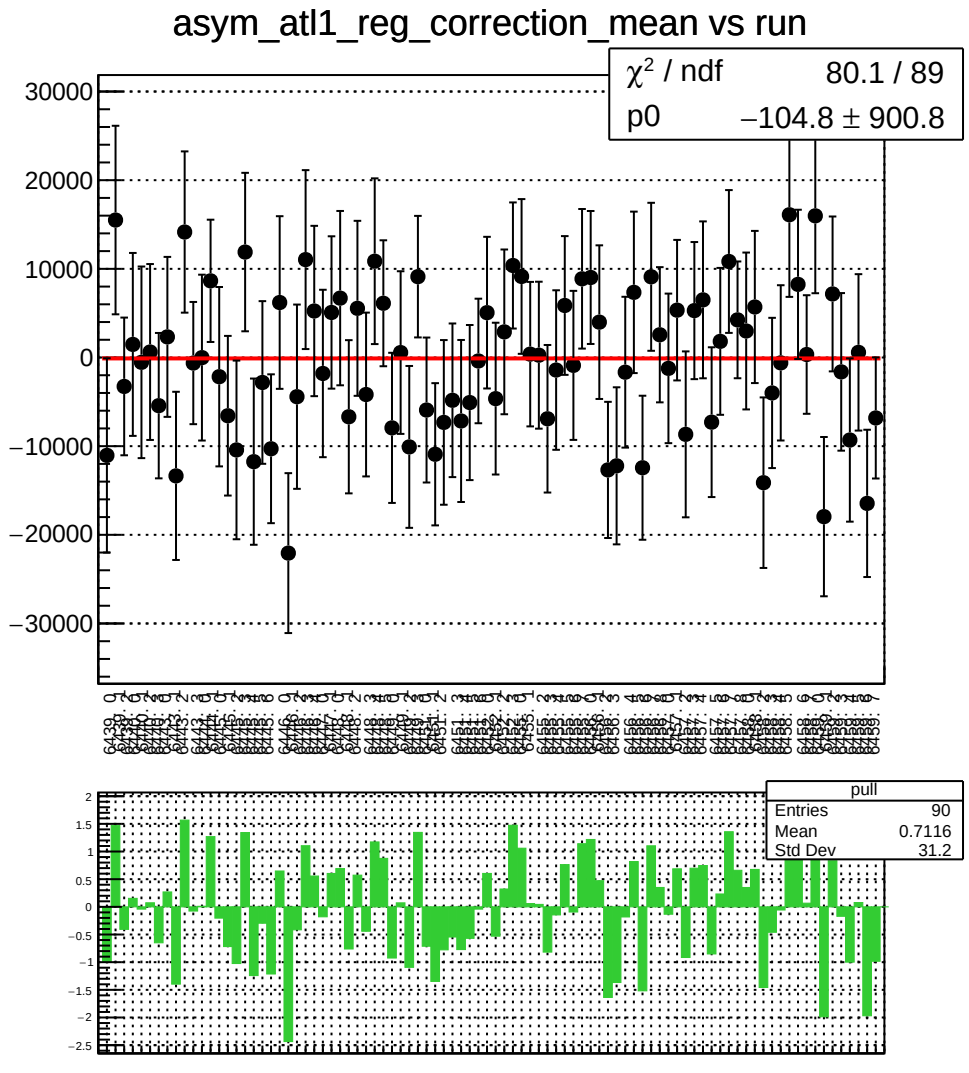

pull1D
Entries 90
Mean 0.0001726
Std Dev 0.9532

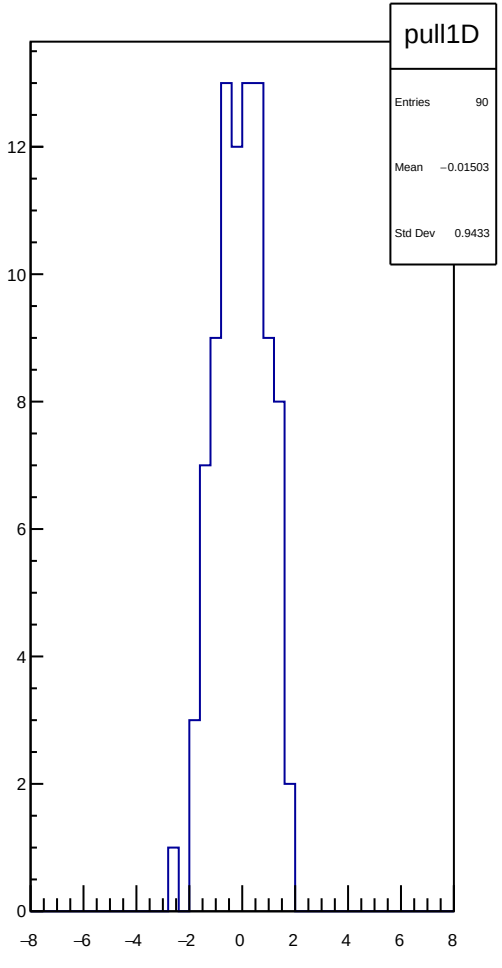

asym_us_agg_dd_rms vs run
χ² / ndf 2012 / 89
p0 960.8 ± 0.7201
1080
1060
1040
1020
1000
980
960
940
920
900
880

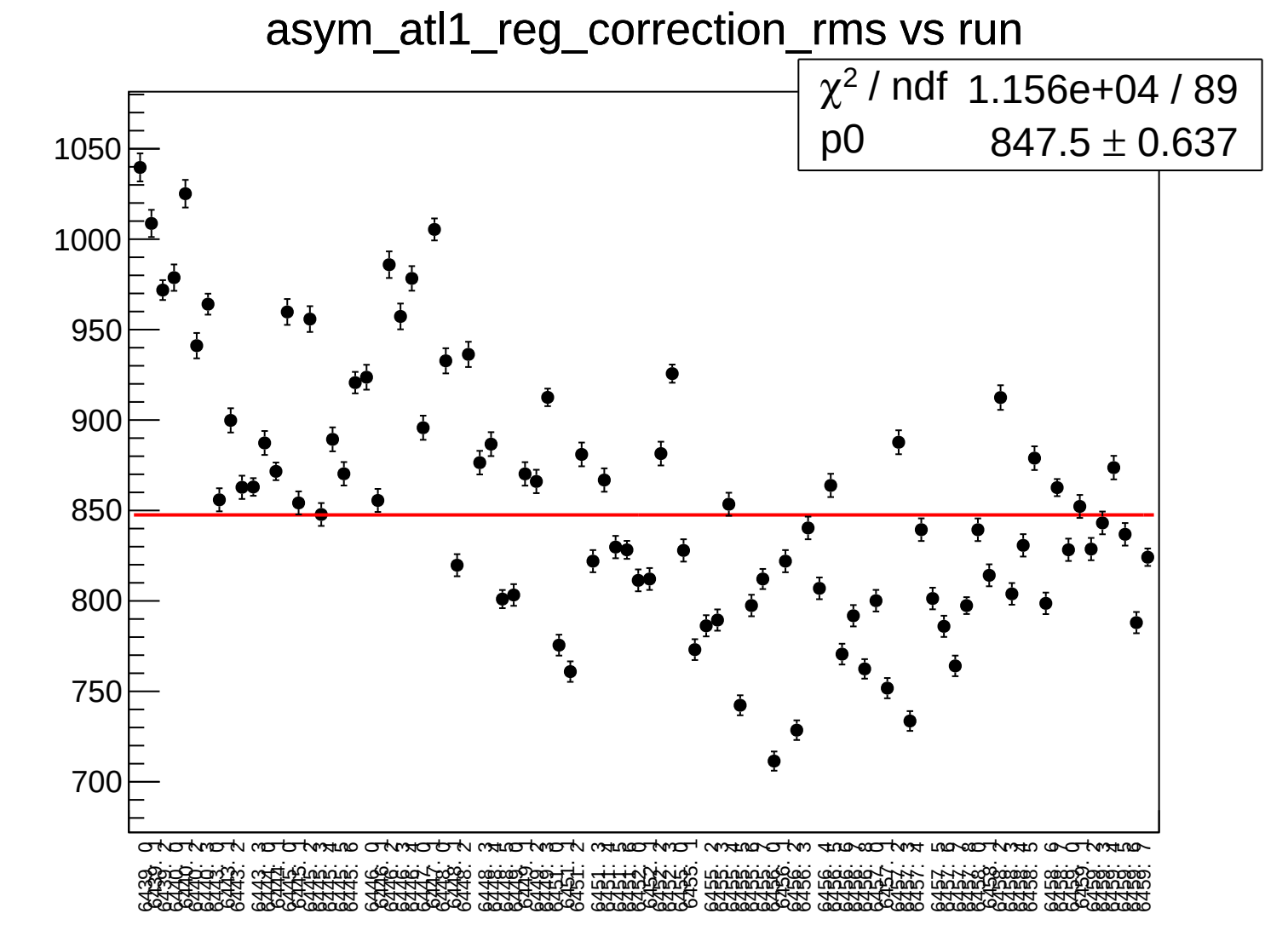

reg_asym_atl1_mean vs run
×10^3
χ² / ndf 93.78 / 89
p0 612.4 ± 2506
pull
Entries 90
Mean 289.5
Std Dev 0

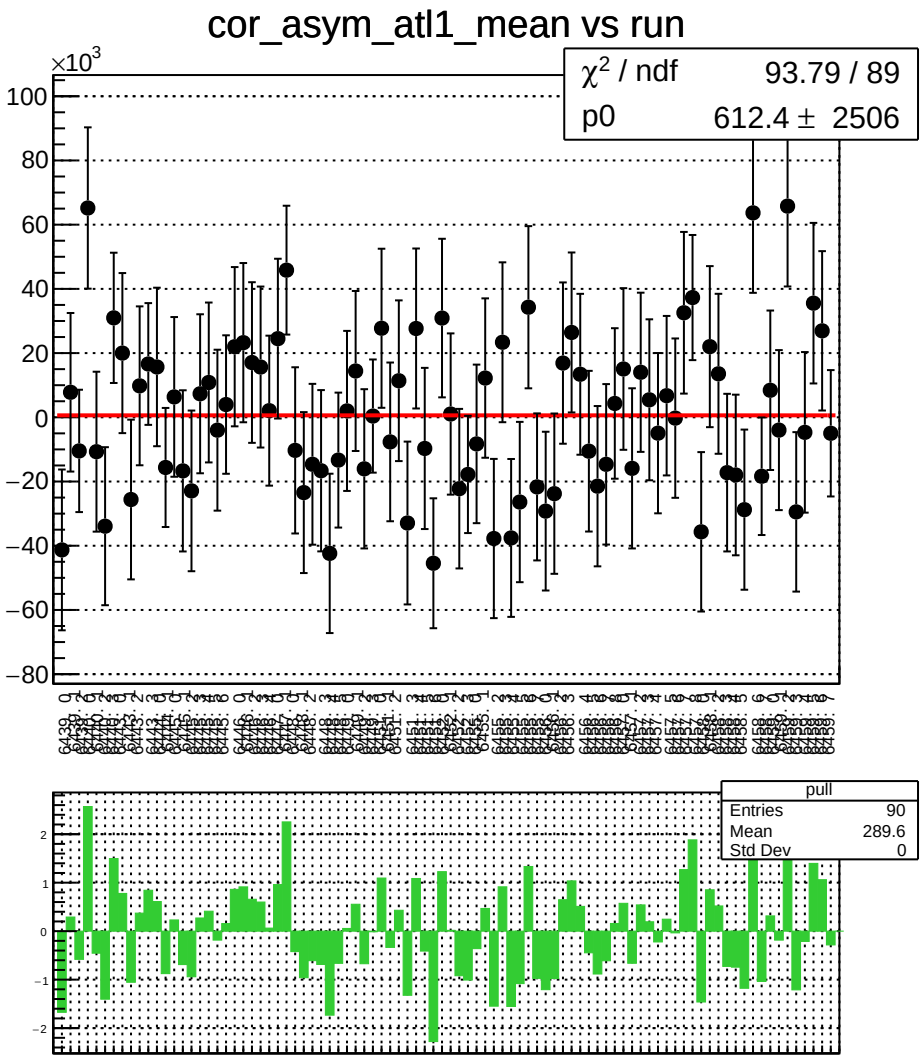

pull1D
Entries 90
Mean 0.004199
Std Dev 1.021

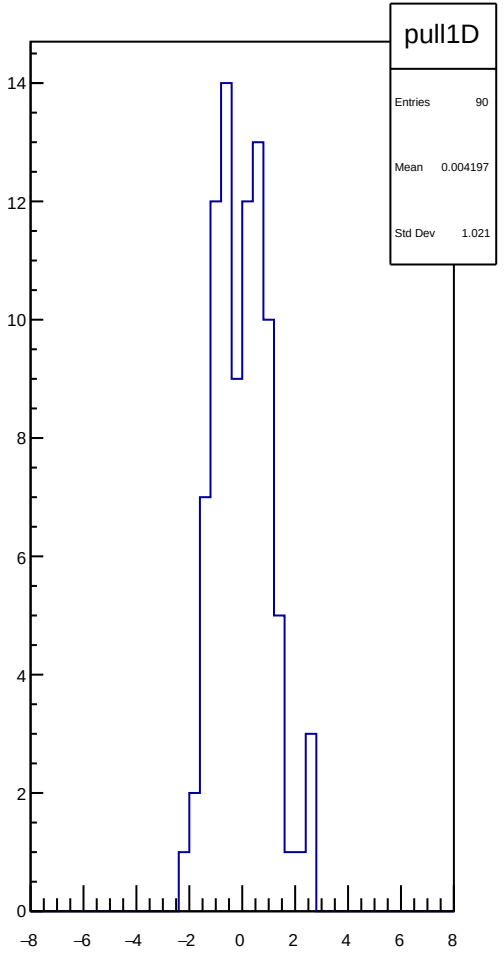

reg_asym_atl1_rms vs run
χ^2 / ndf 92.95 / 89
p0 2365 ± 1.772
2480
2460
2440
2420
2400
2380
2360
2340
2320
2300

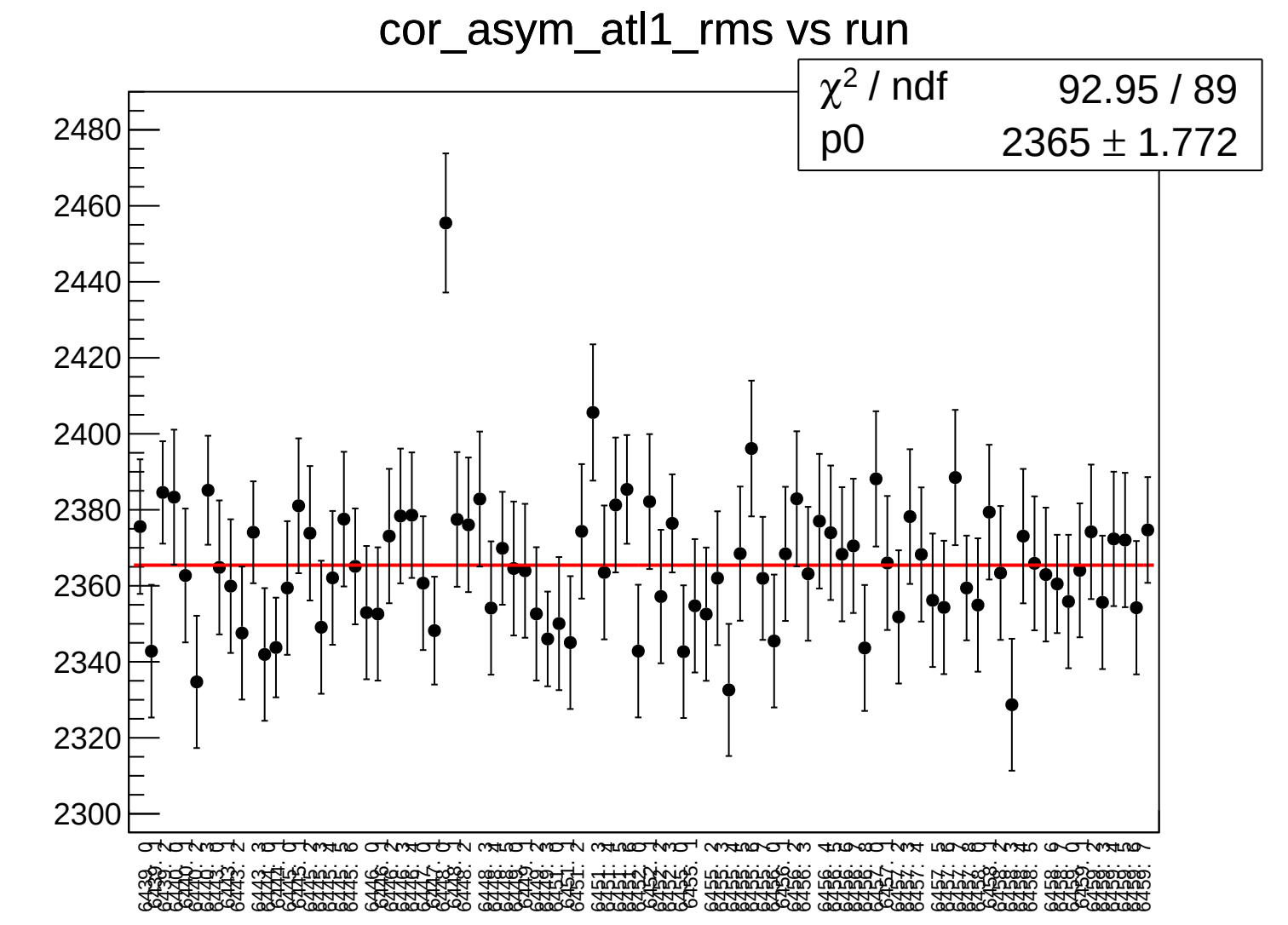

asym_atl1_reg_correction_mean vs run
χ² / ndf 80.1 / 89
p0 −104.8 ± 900.8
pull
Entries 90
Mean 0.7116
Std Dev 31.2

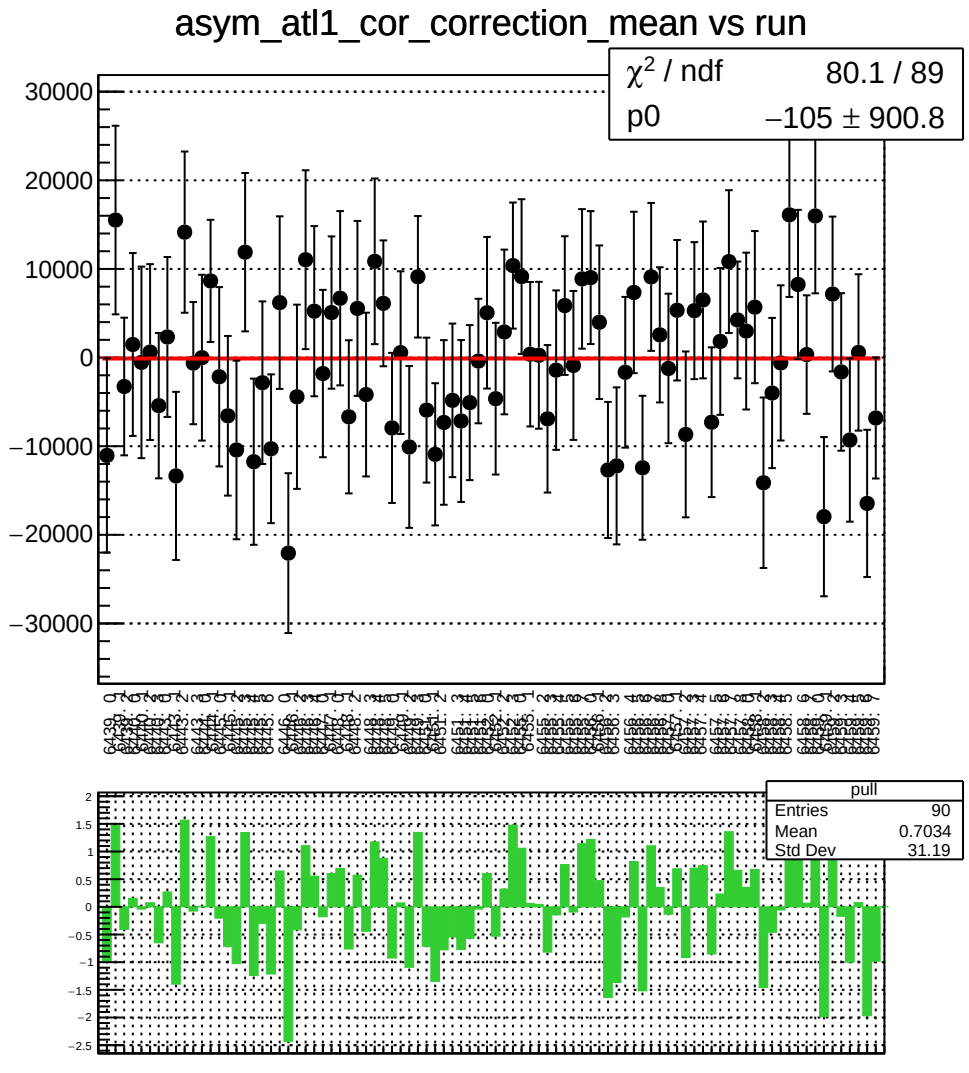

pull1D
Entries 90
Mean −0.01503
Std Dev 0.9433

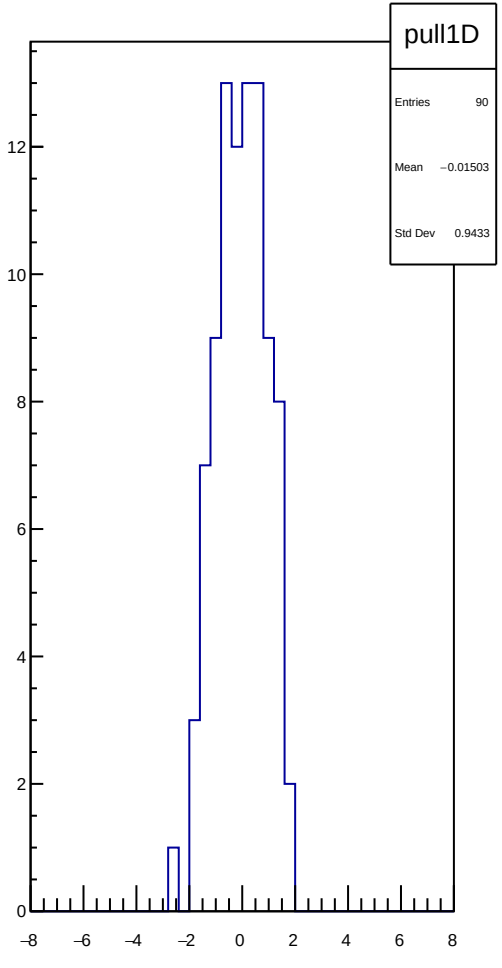

asym_atl1_reg_correction_rms vs run
χ² / ndf 1.156e+04 / 89
p0 847.5 ± 0.637
1050
1000
950
900
850
800
750
700

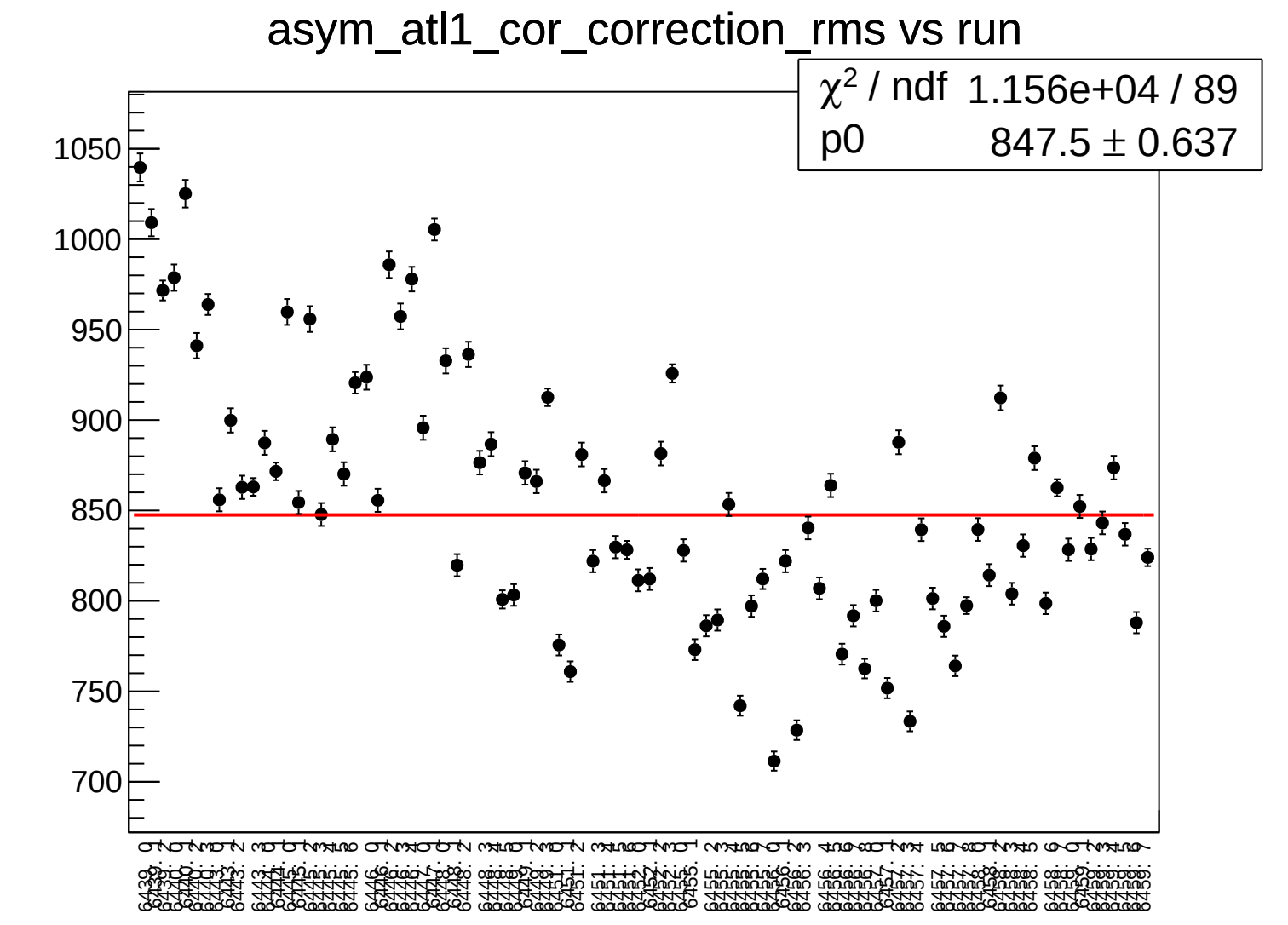

cor_asym_atl1_mean vs run
×10^3
χ^2 / ndf 93.79 / 89
p0 612.4 ± 2506
pull
Entries 90
Mean 289.6
Std Dev 0

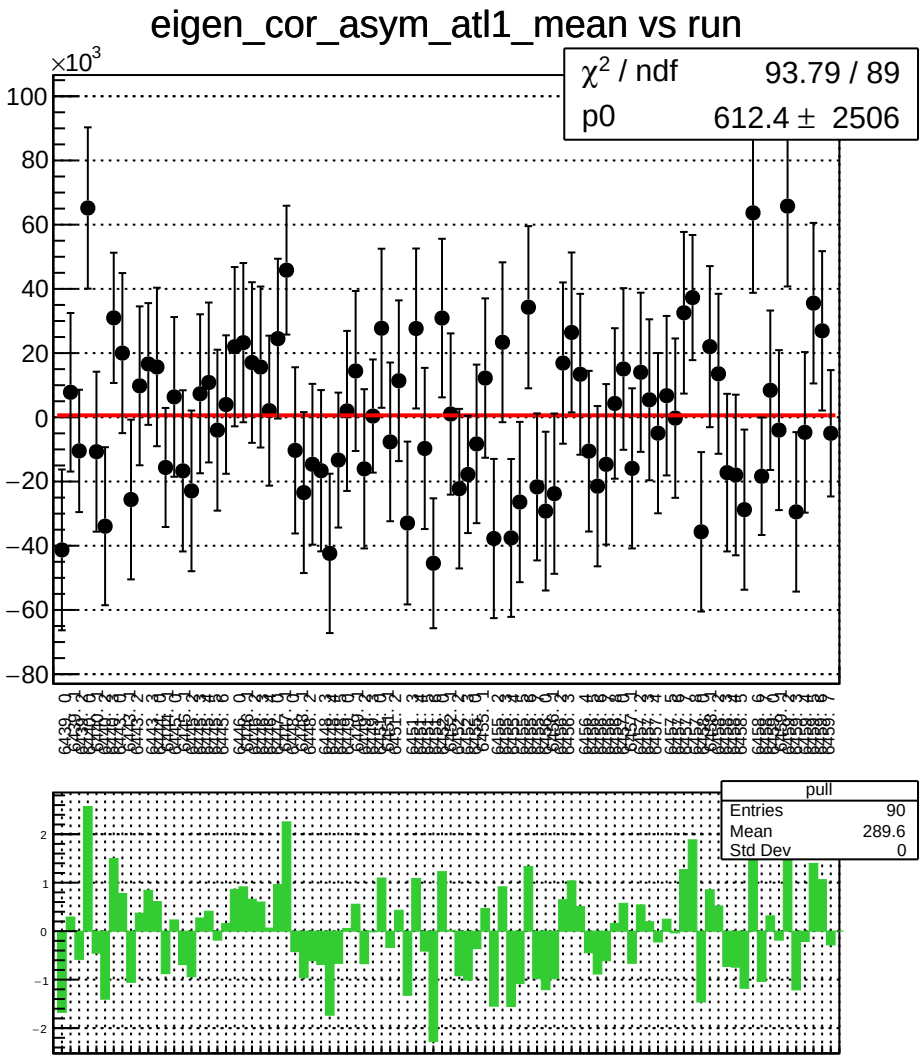

pull1D
Entries 90
Mean 0.004197
Std Dev 1.021

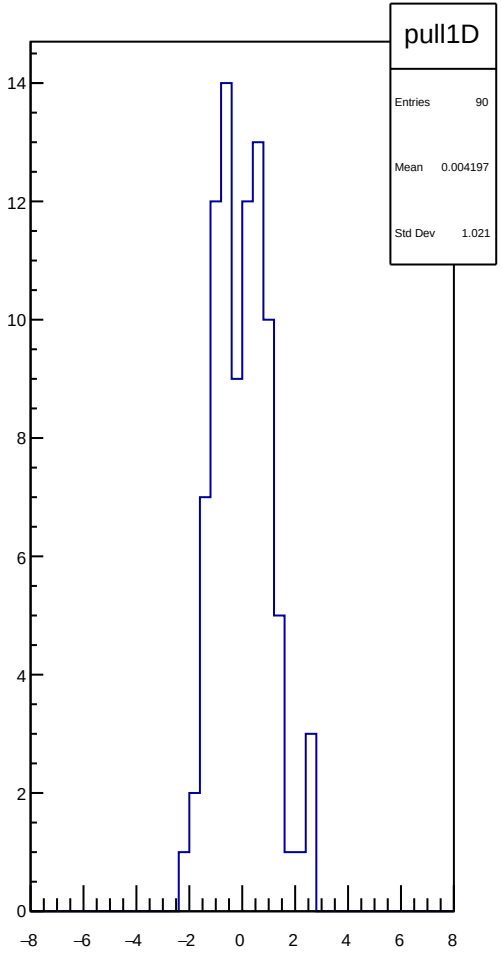

cor_asym_atl1_rms vs run
χ^2 / ndf 92.95 / 89
p0 2365 ± 1.772
2480
2460
2440
2420
2400
2380
2360
2340
2320
2300

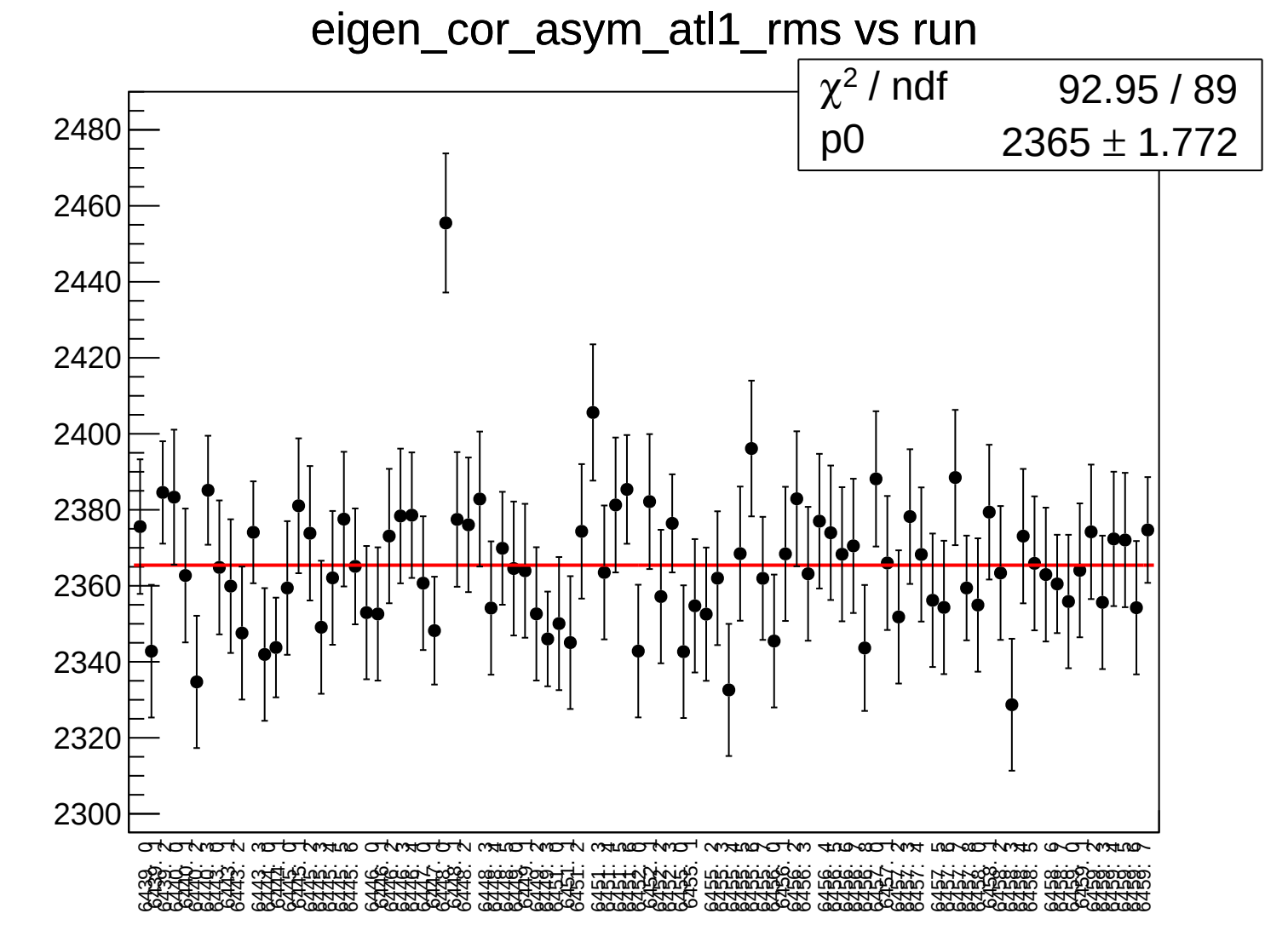

asym_atl1_cor_correction_mean vs run
χ² / ndf 80.1 / 89
p0 −105 ± 900.8
pull
Entries 90
Mean 0.7034
Std Dev 31.19

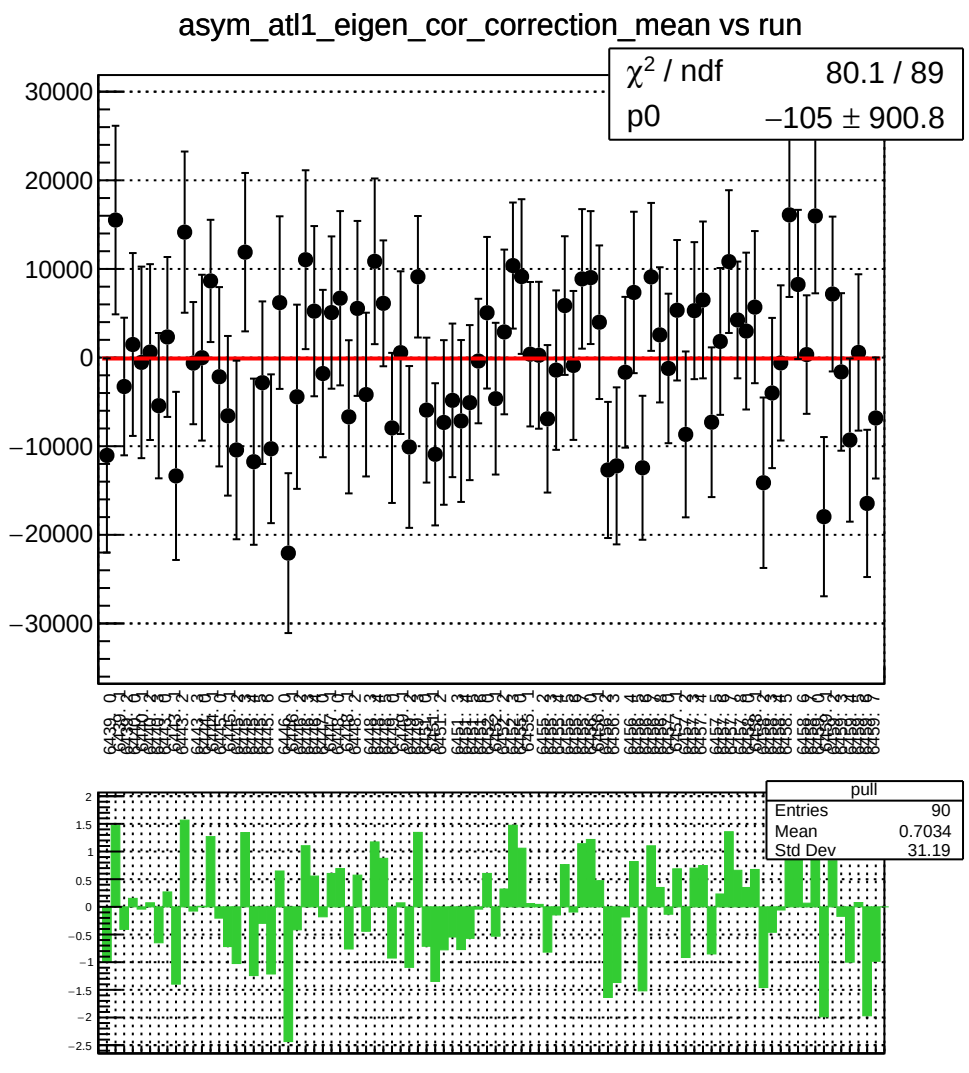

pull1D
Entries 90
Mean −0.01503
Std Dev 0.9433

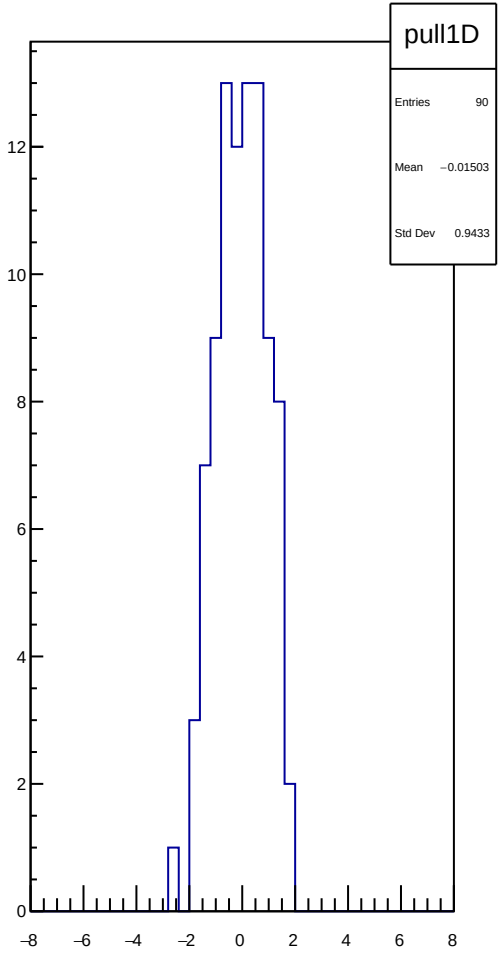

asym_atl1_cor_correction_rms vs run
χ² / ndf 1.156e+04 / 89
p0 847.5 ± 0.637
1050
1000
950
900
850
800
750
700

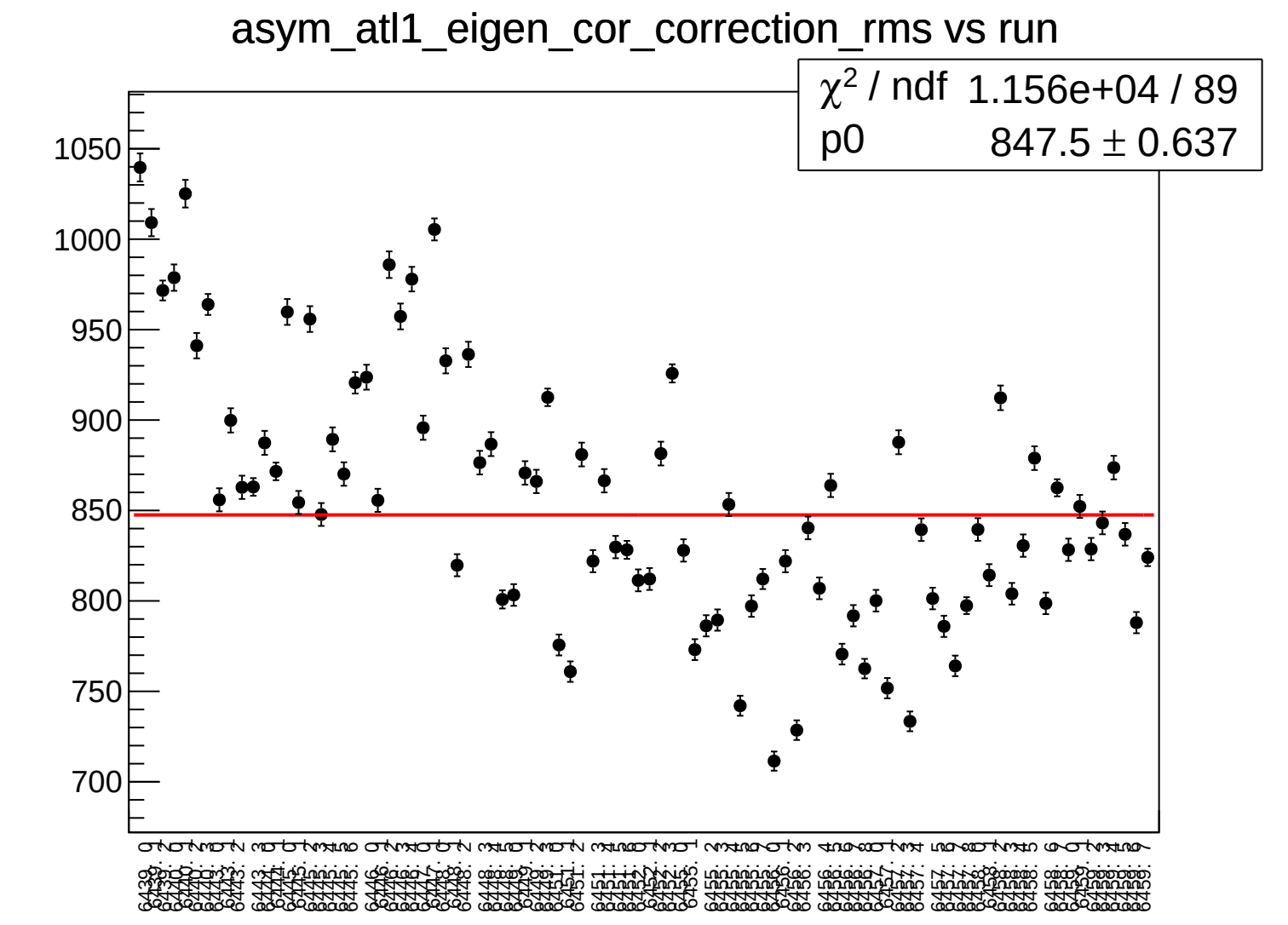

eigen_cor_asym_atl1_mean vs run
χ² / ndf 93.79 / 89
p0 612.4 ± 2506
×10³
pull
Entries 90
Mean 289.6
Std Dev 0

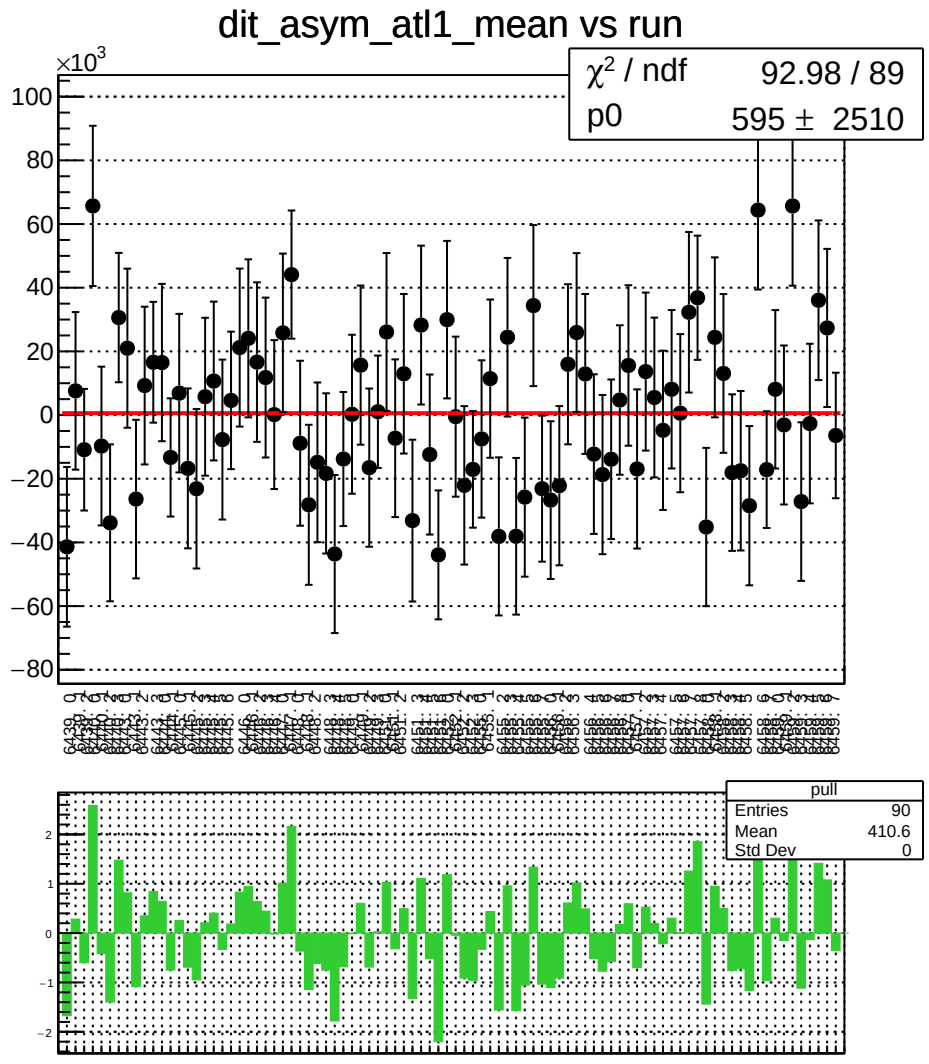

pull1D
Entries 90
Mean 0.004197
Std Dev 1.021

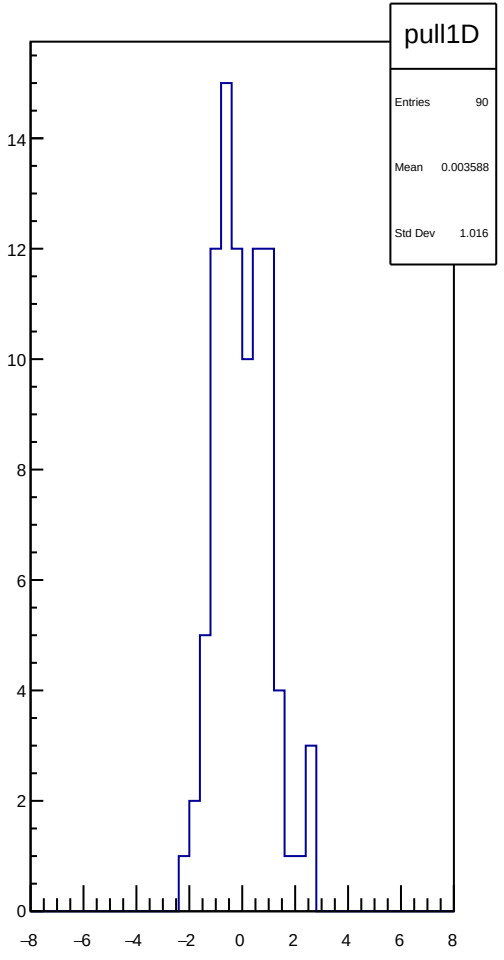

eigen_cor_asym_atl1_rms vs run
χ² / ndf 92.95 / 89
p0 2365 ± 1.772
2480
2460
2440
2420
2400
2380
2360
2340
2320
2300

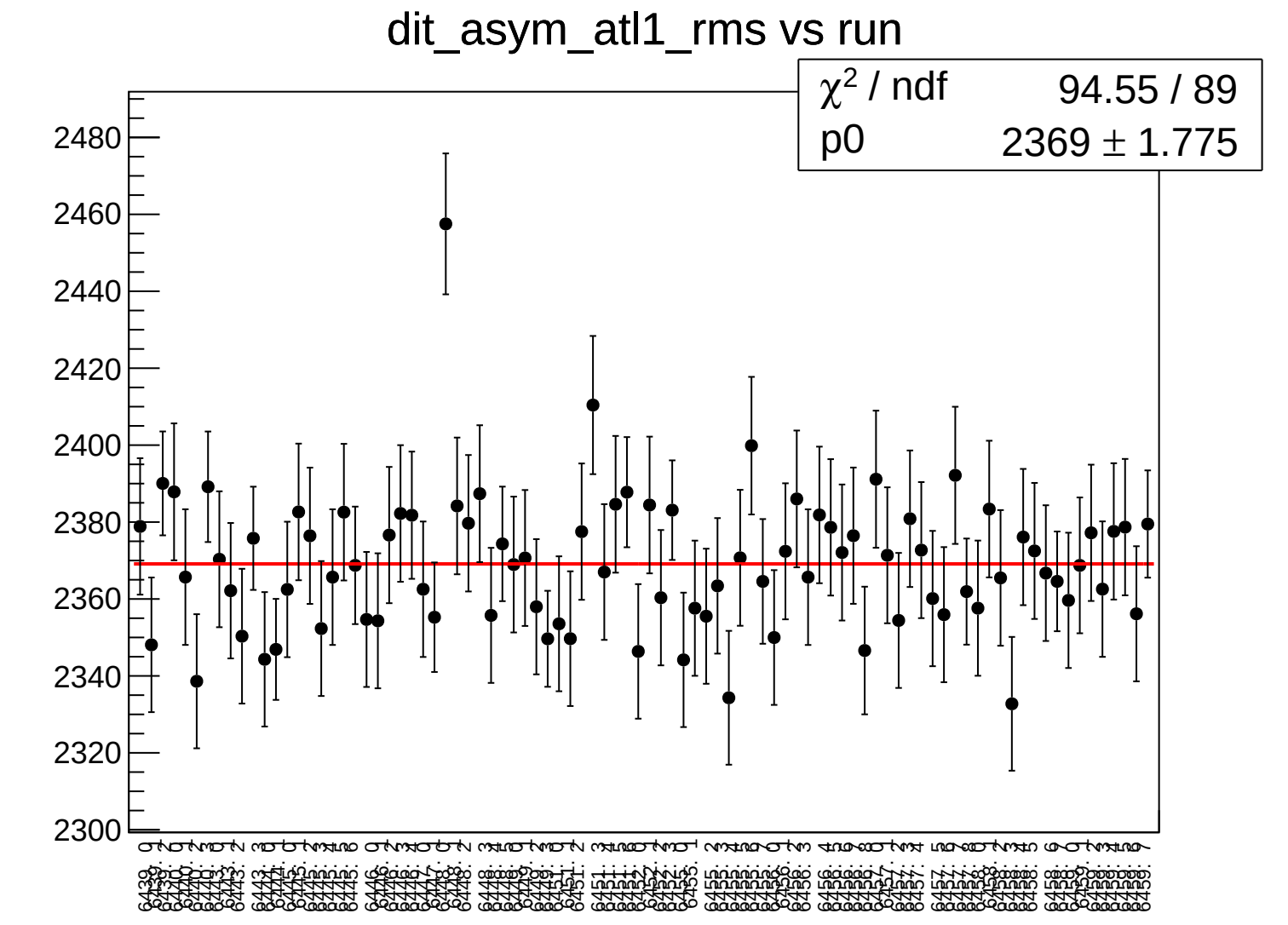

asym_atl1_eigen_cor_correction_mean vs run
χ² / ndf 80.1 / 89
p0 −105 ± 900.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean 0.7034
Std Dev 31.19
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

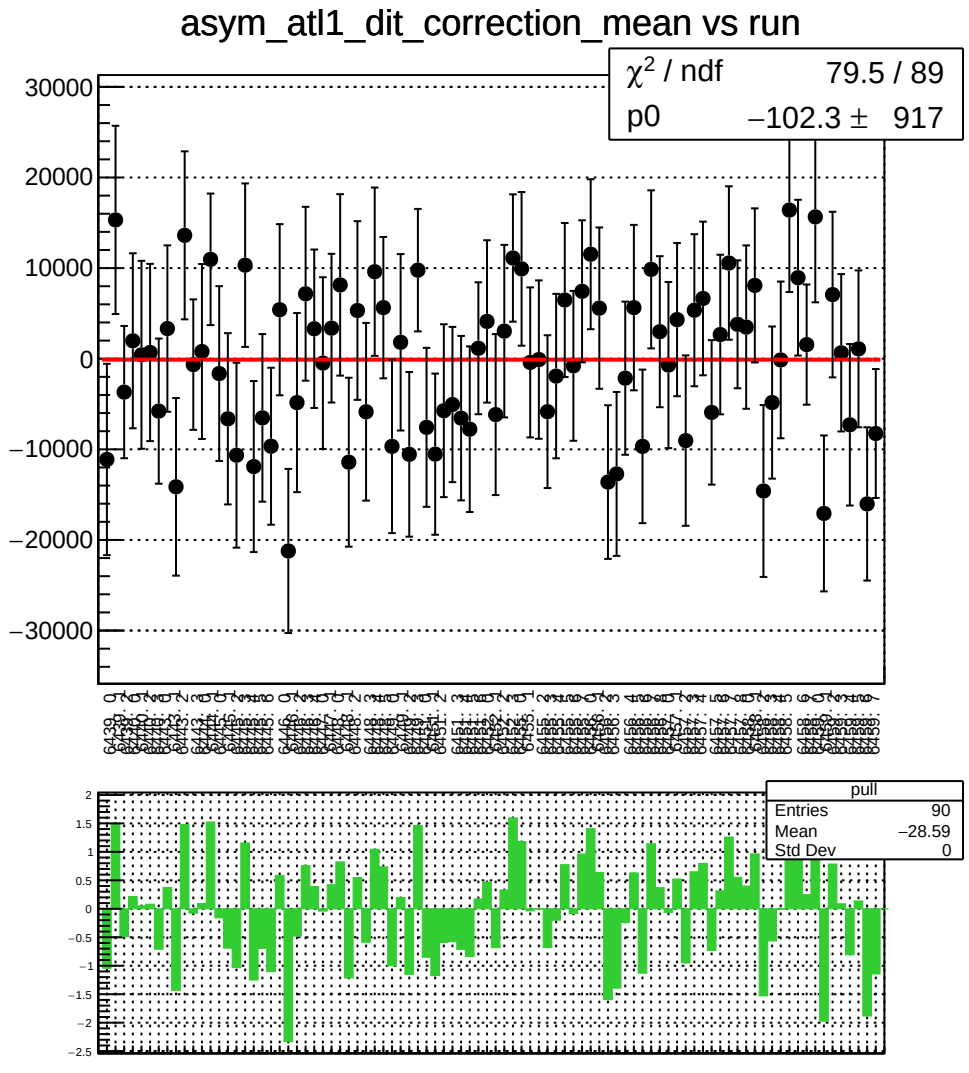

pull1D
Entries 90
Mean −0.01503
Std Dev 0.9433
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

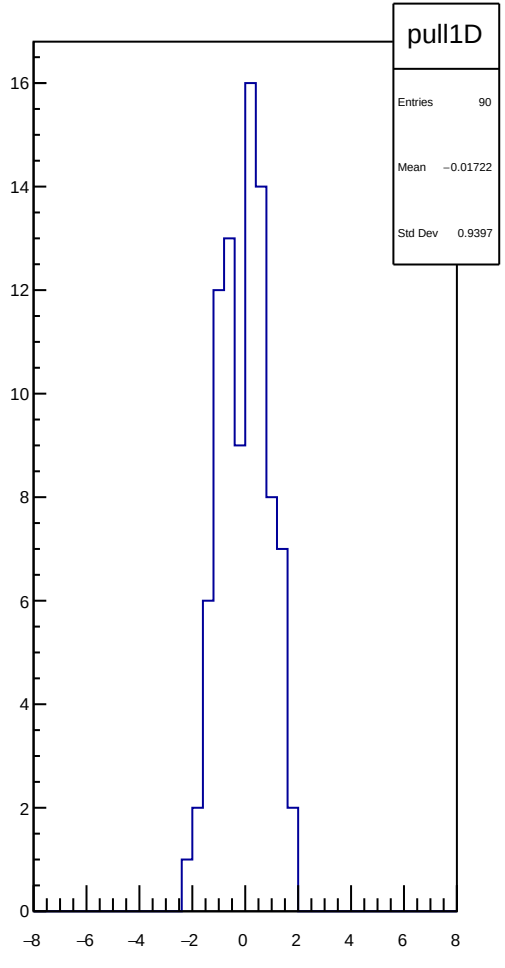

asym_atl1_eigen_cor_correction_rms vs run
χ² / ndf 1.156e+04 / 89
p0 847.5 ± 0.637
1050
1000
950
900
850
800
750
700

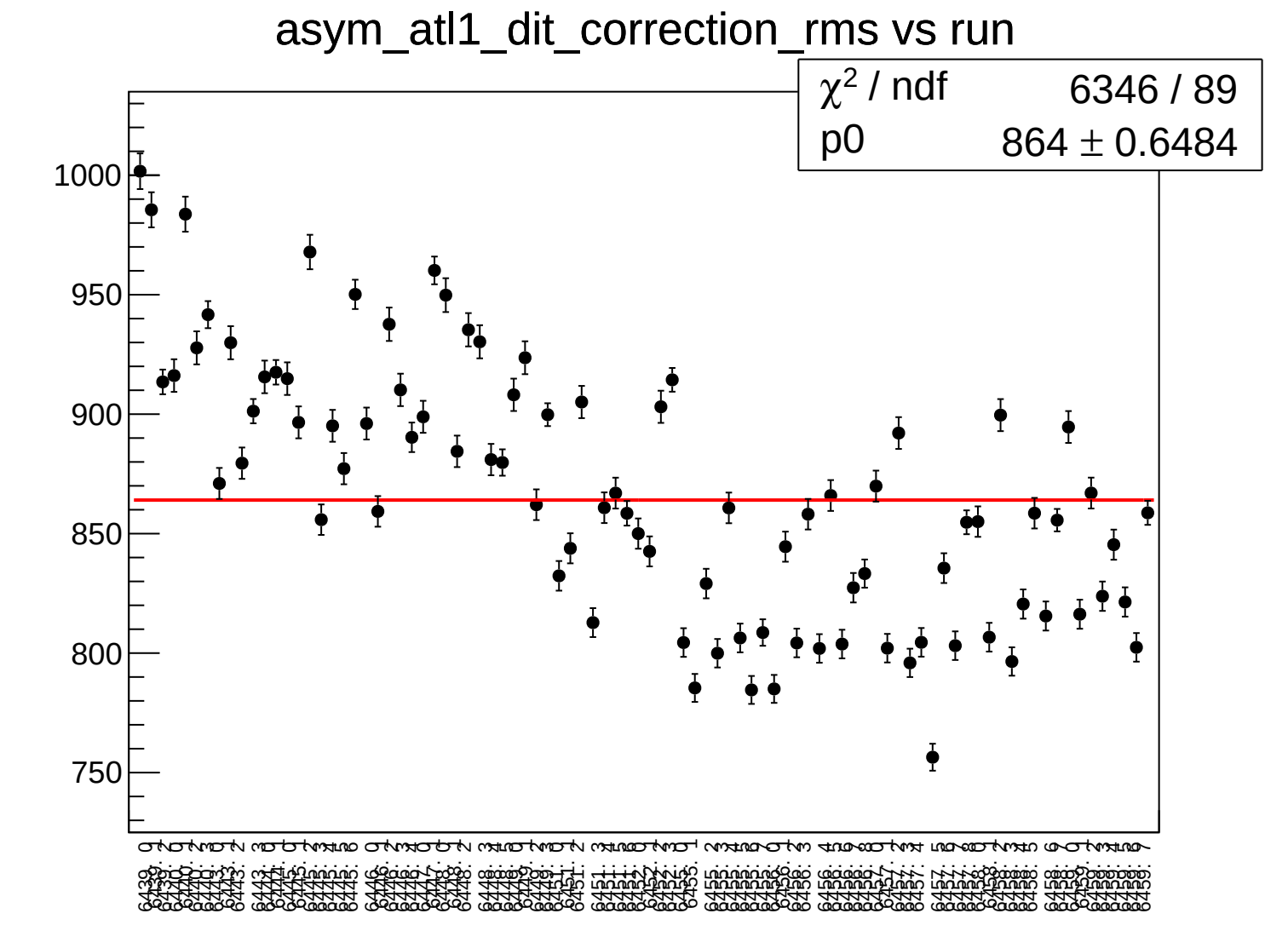

dit_asym_atl1_mean vs run
×10^3
χ^2 / ndf 92.98 / 89
p0 595 ± 2510
pull
Entries 90
Mean 410.6
Std Dev 0

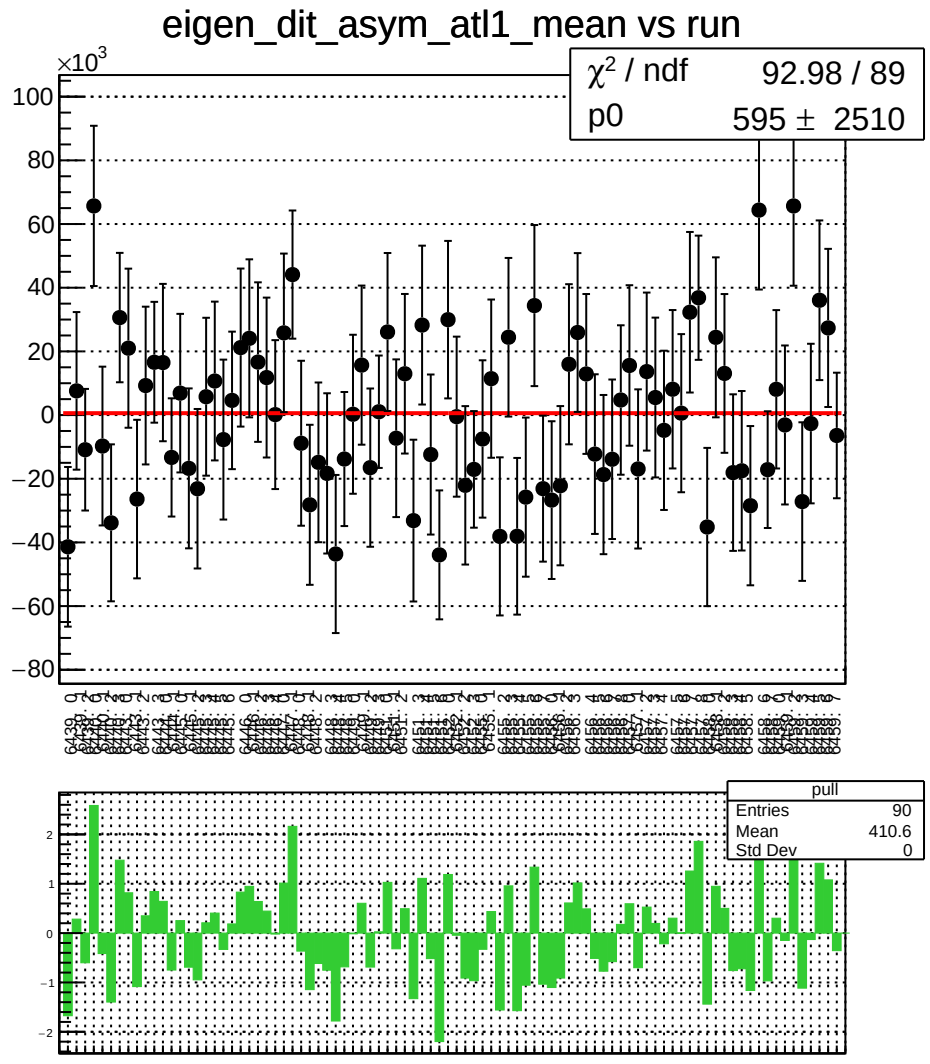

pull1D
Entries 90
Mean 0.003588
Std Dev 1.016

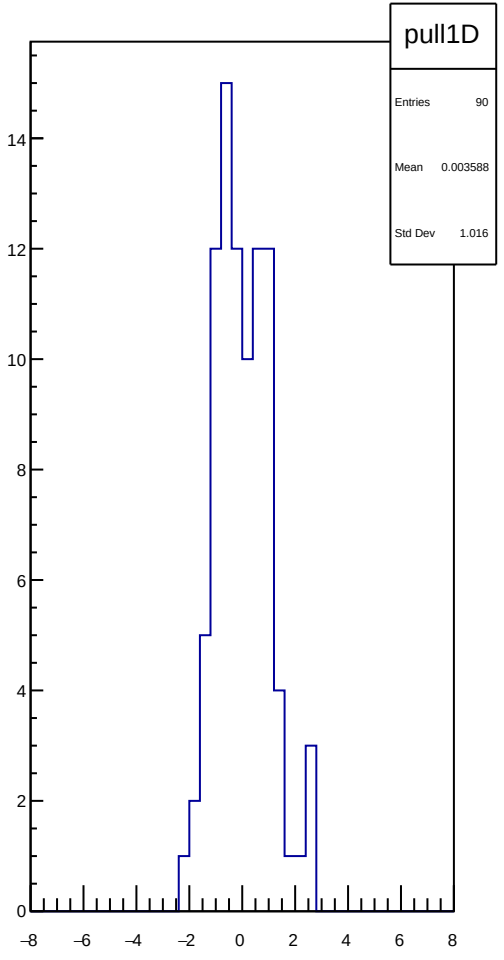

dit_asym_atl1_rms vs run
χ² / ndf 94.55 / 89
p0 2369 ± 1.775
2480
2460
2440
2420
2400
2380
2360
2340
2320
2300

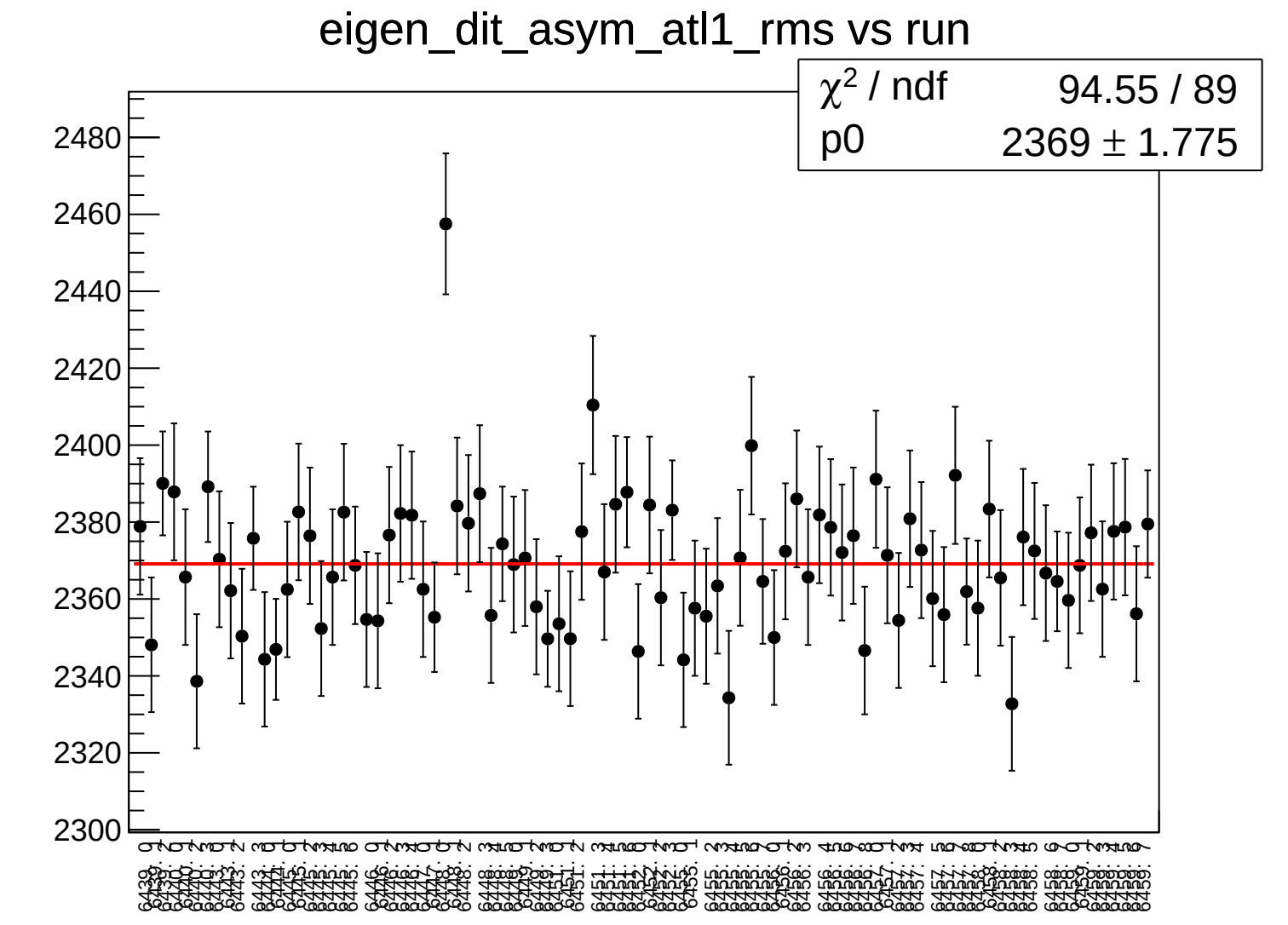

asym_atl1_dit_correction_mean vs run
χ² / ndf 79.5 / 89
p0 −102.3 ± 917
pull
Entries 90
Mean −28.59
Std Dev 0

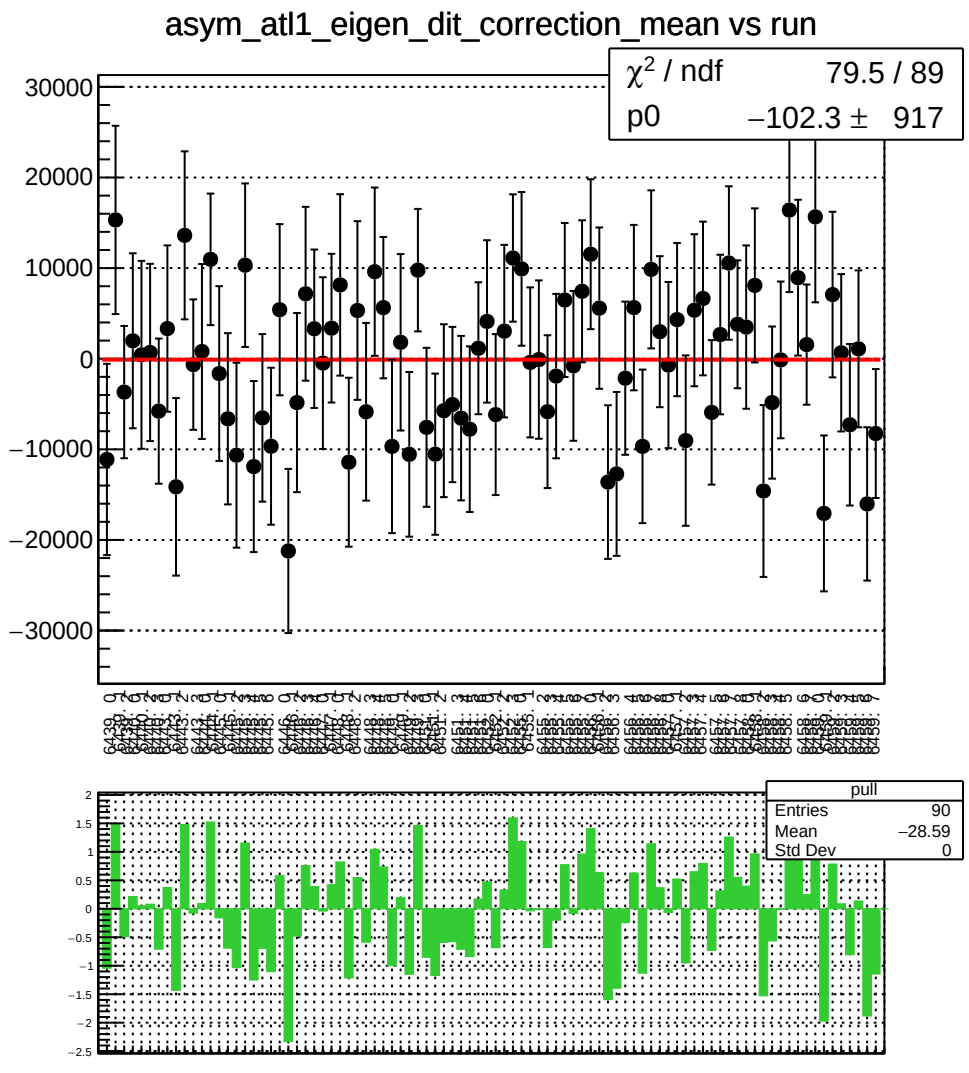

pull1D
Entries 90
Mean −0.01722
Std Dev 0.9397

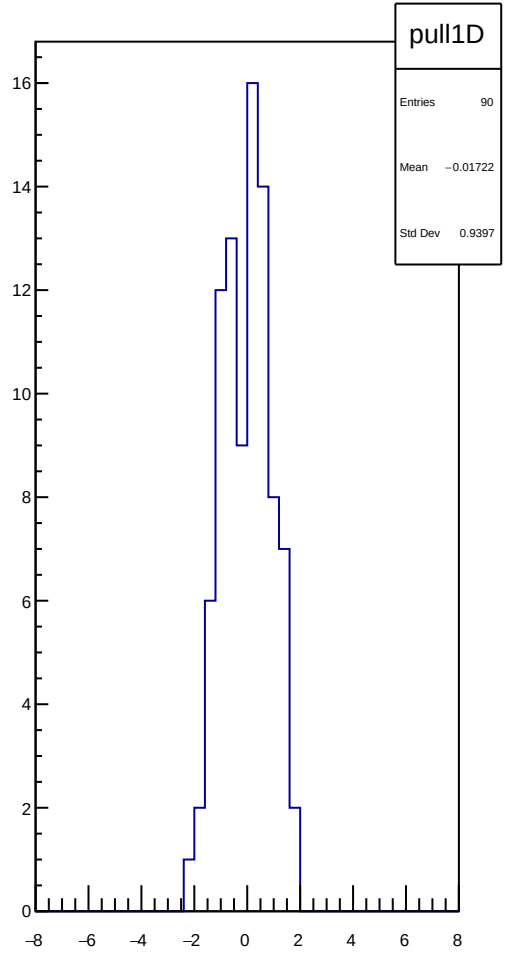

asym_atl1_dit_correction_rms vs run
χ² / ndf 6346 / 89
p0 864 ± 0.6484
1000
950
900
850
800
750

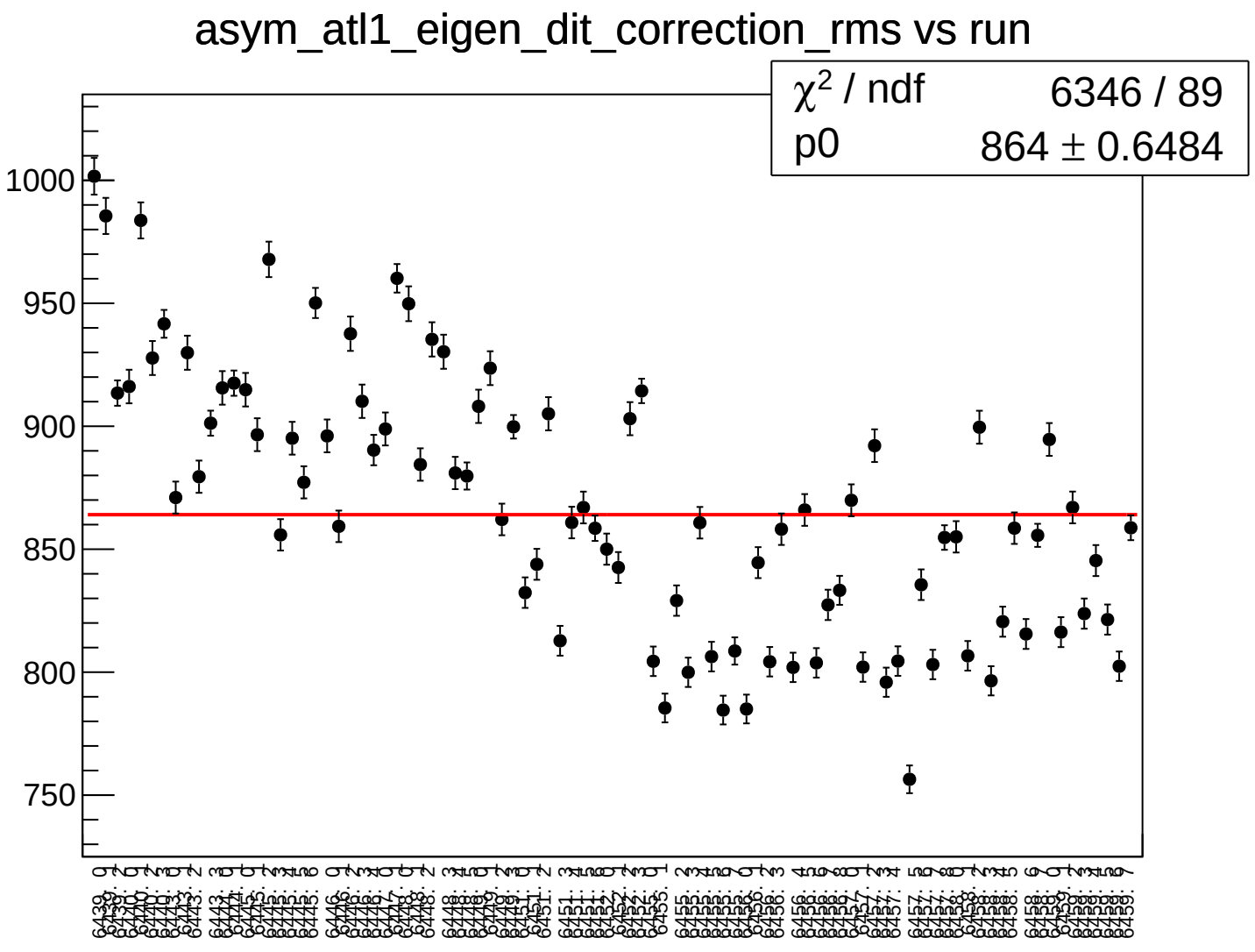

eigen_dit_asym_atl1_mean vs run
×10^3
χ² / ndf 92.98 / 89
p0 595 ± 2510
pull
Entries 90
Mean 410.6
Std Dev 0

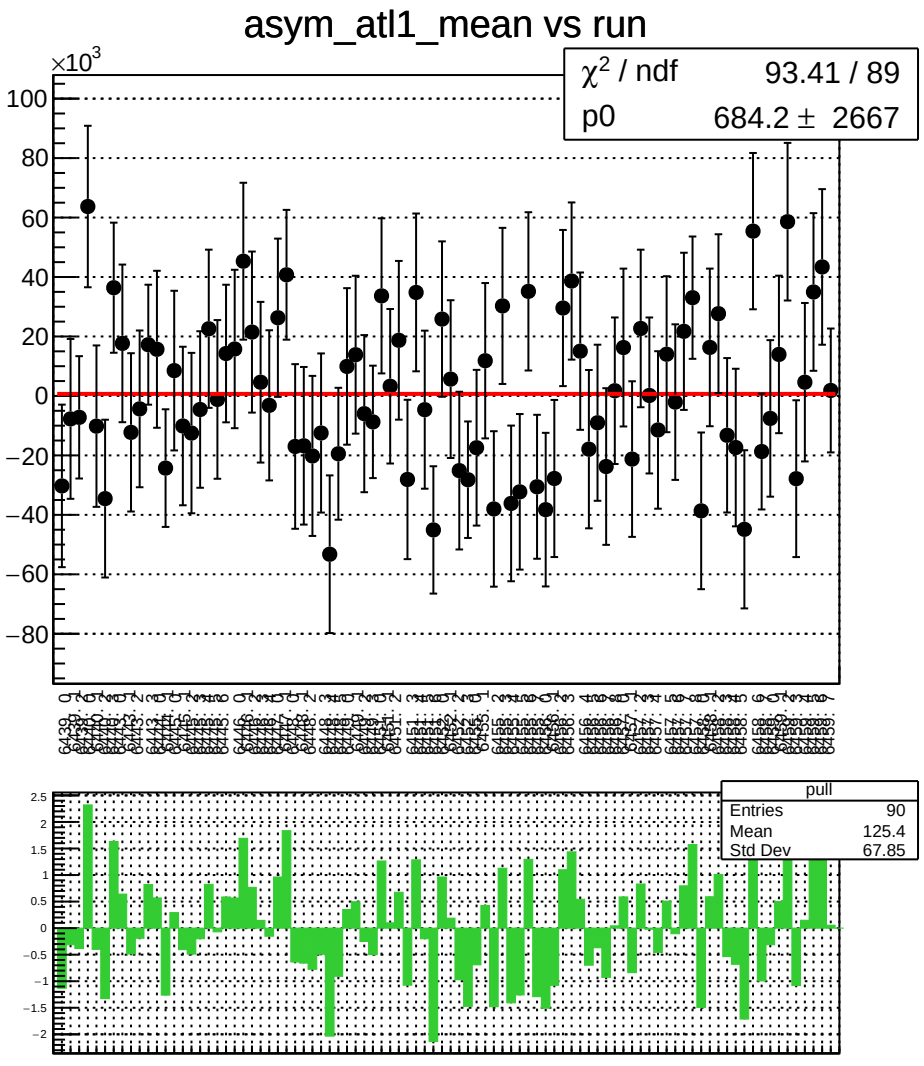

pull1D
Entries 90
Mean 0.003588
Std Dev 1.016

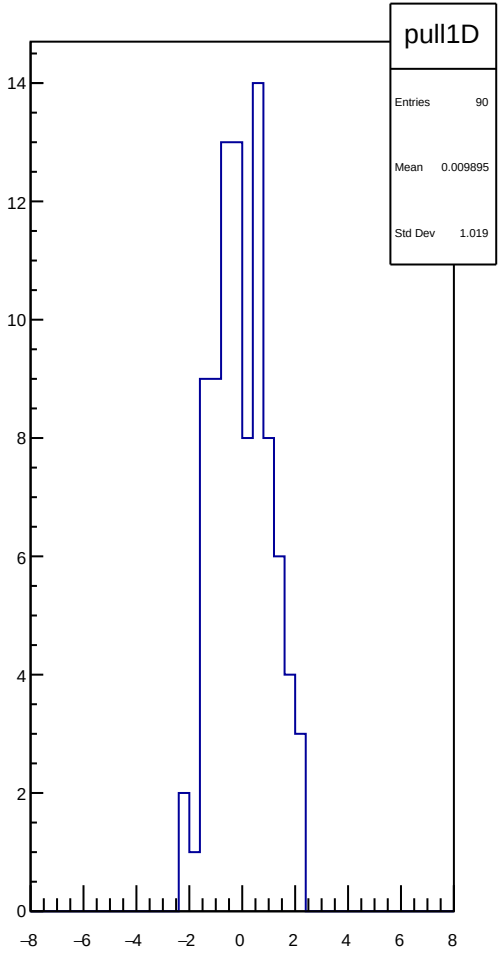

eigen_dit_asym_atl1_rms vs run
χ² / ndf 94.55 / 89
p0 2369 ± 1.775
2480
2460
2440
2420
2400
2380
2360
2340
2320
2300

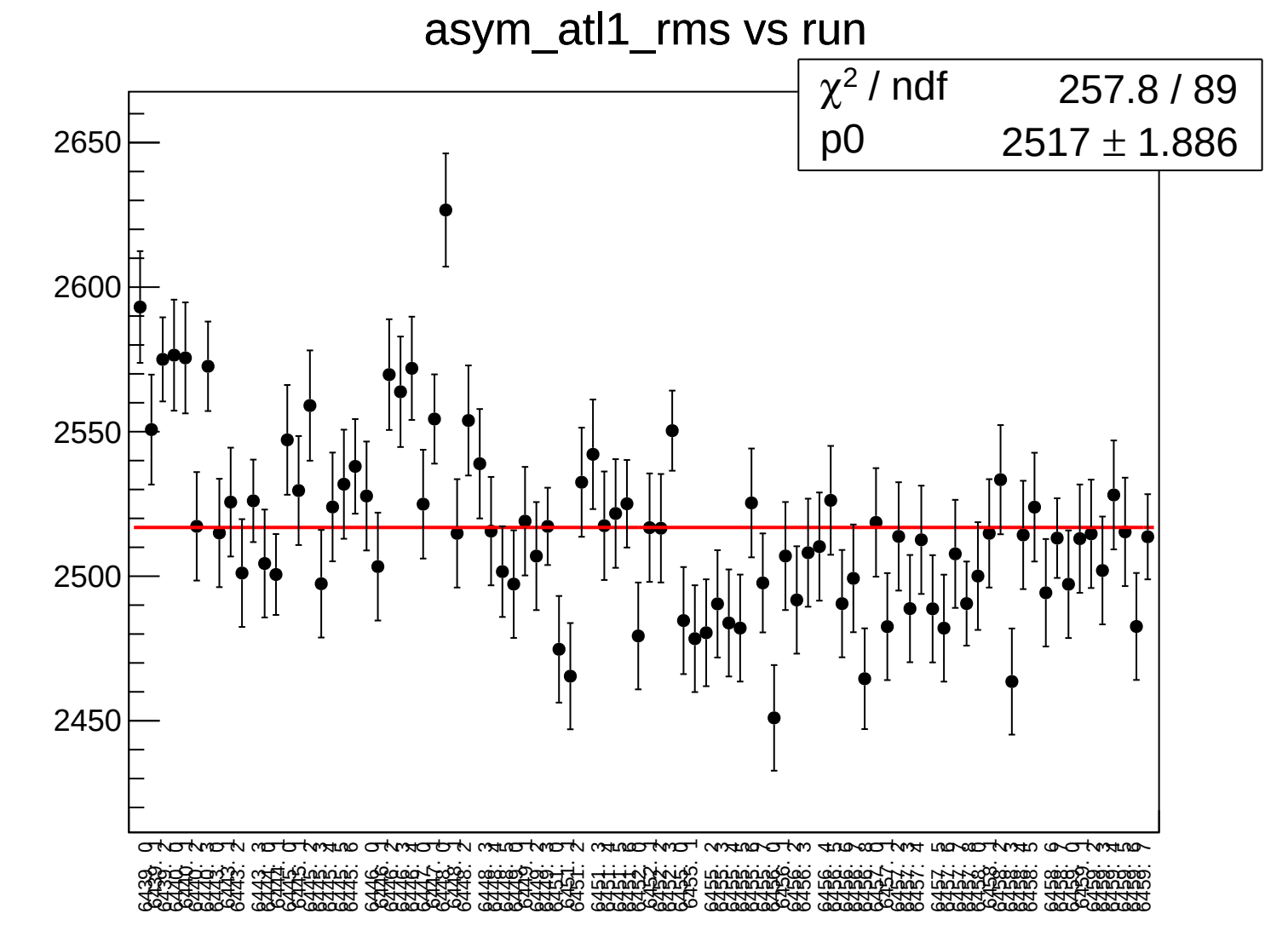

asym_atl1_eigen_dit_correction_mean vs run
χ² / ndf 79.5 / 89
p0 −102.3 ± 917
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean −28.59
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

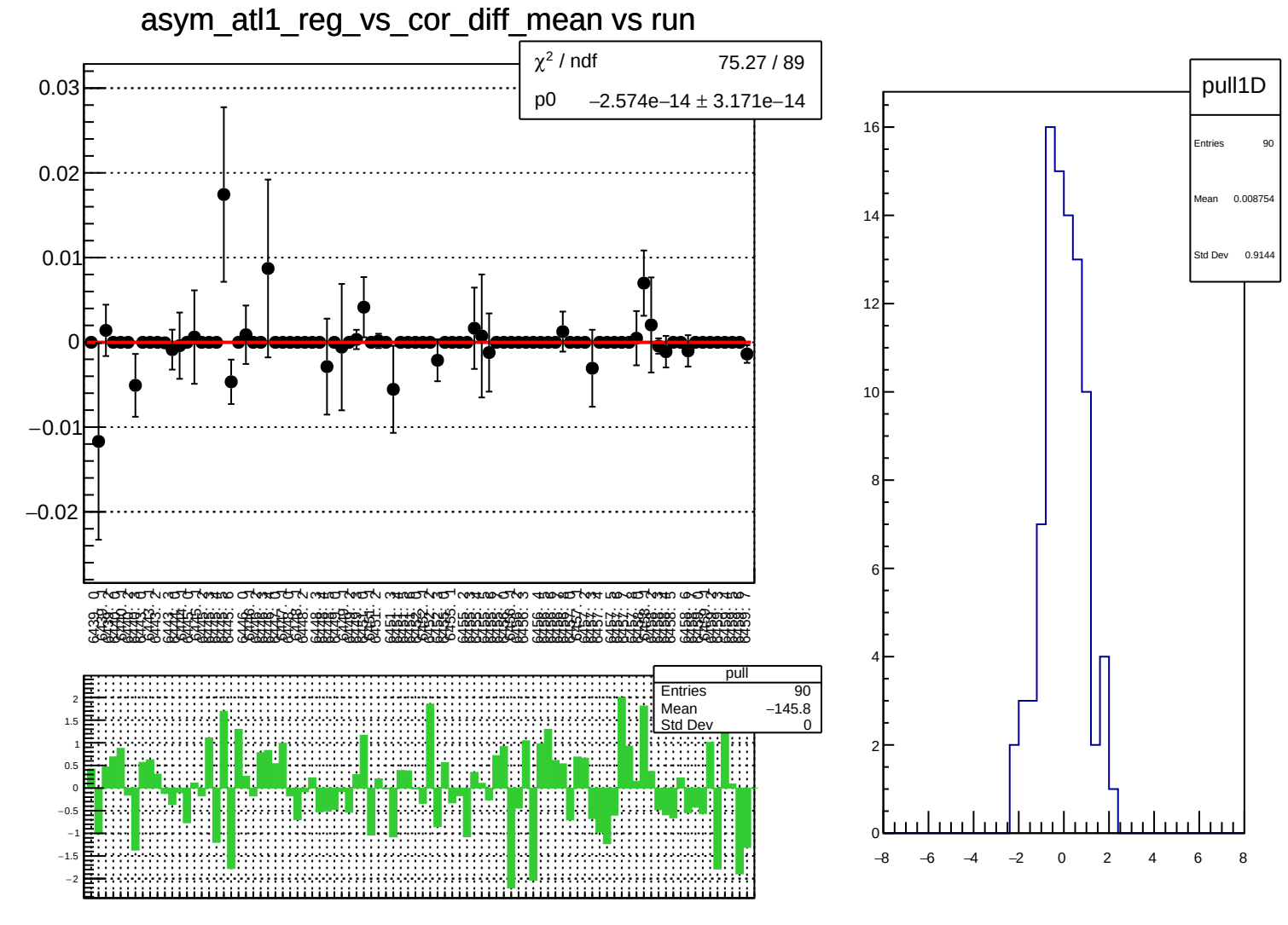

pull1D
Entries 90
Mean −0.01722
Std Dev 0.9397
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

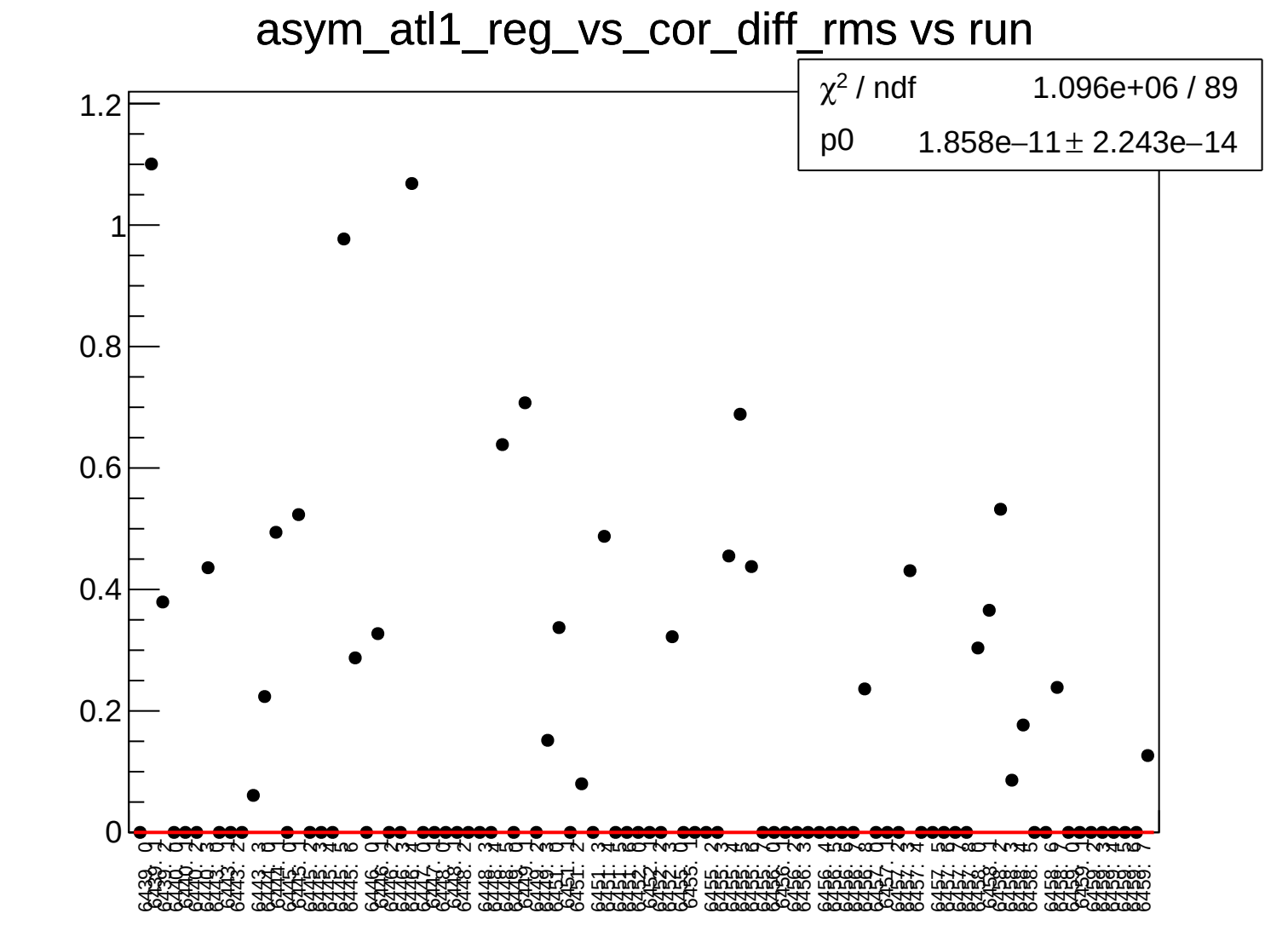

asym_atl1_eigen_dit_correction_rms vs run
χ² / ndf 6346 / 89
p0 864 ± 0.6484
1000
950
900
850
800
750

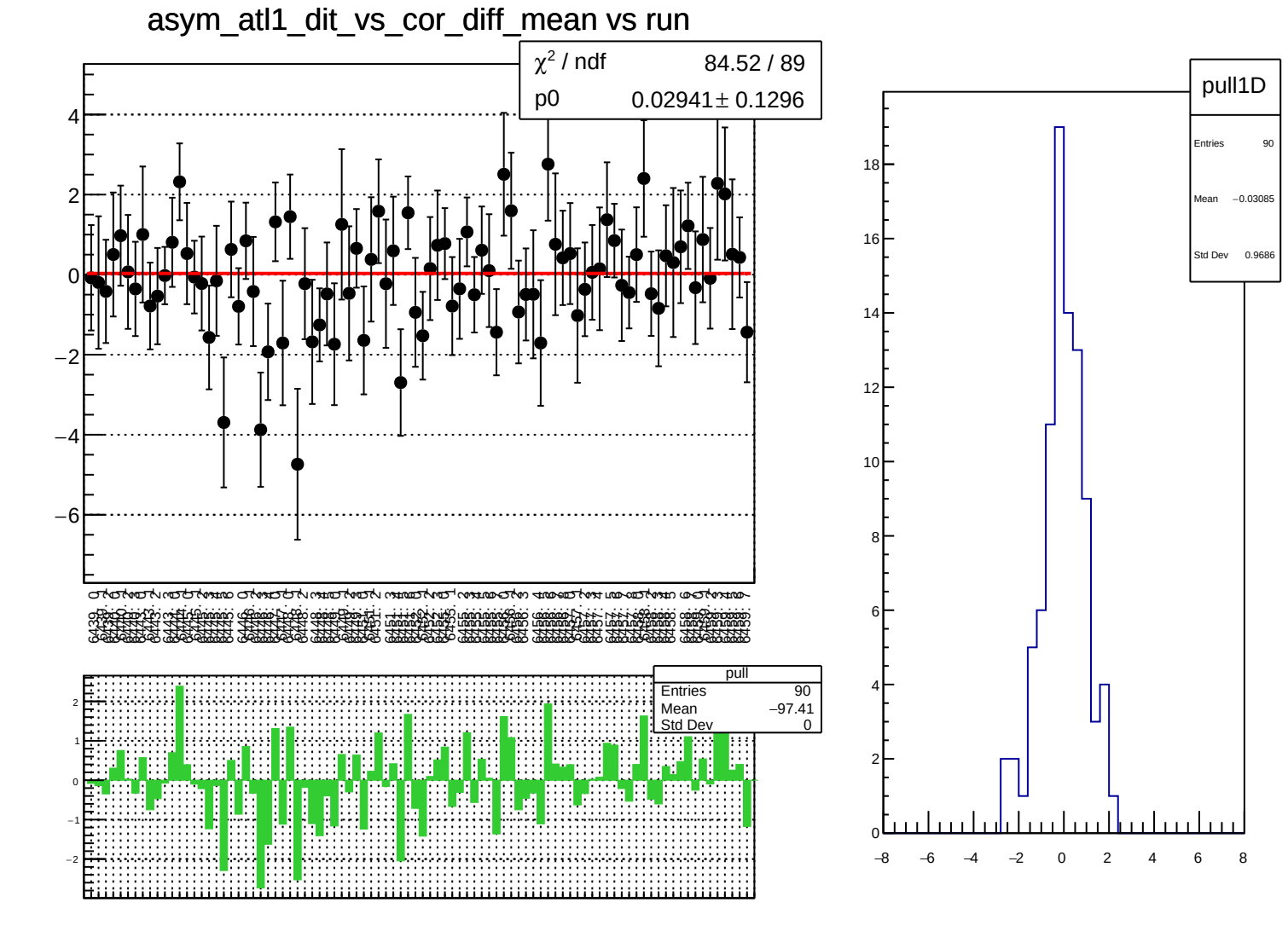

asym_atl1_mean vs run
×10^3
χ² / ndf 93.41 / 89
p0 684.2 ± 2667
pull
Entries 90
Mean 125.4
Std Dev 67.85

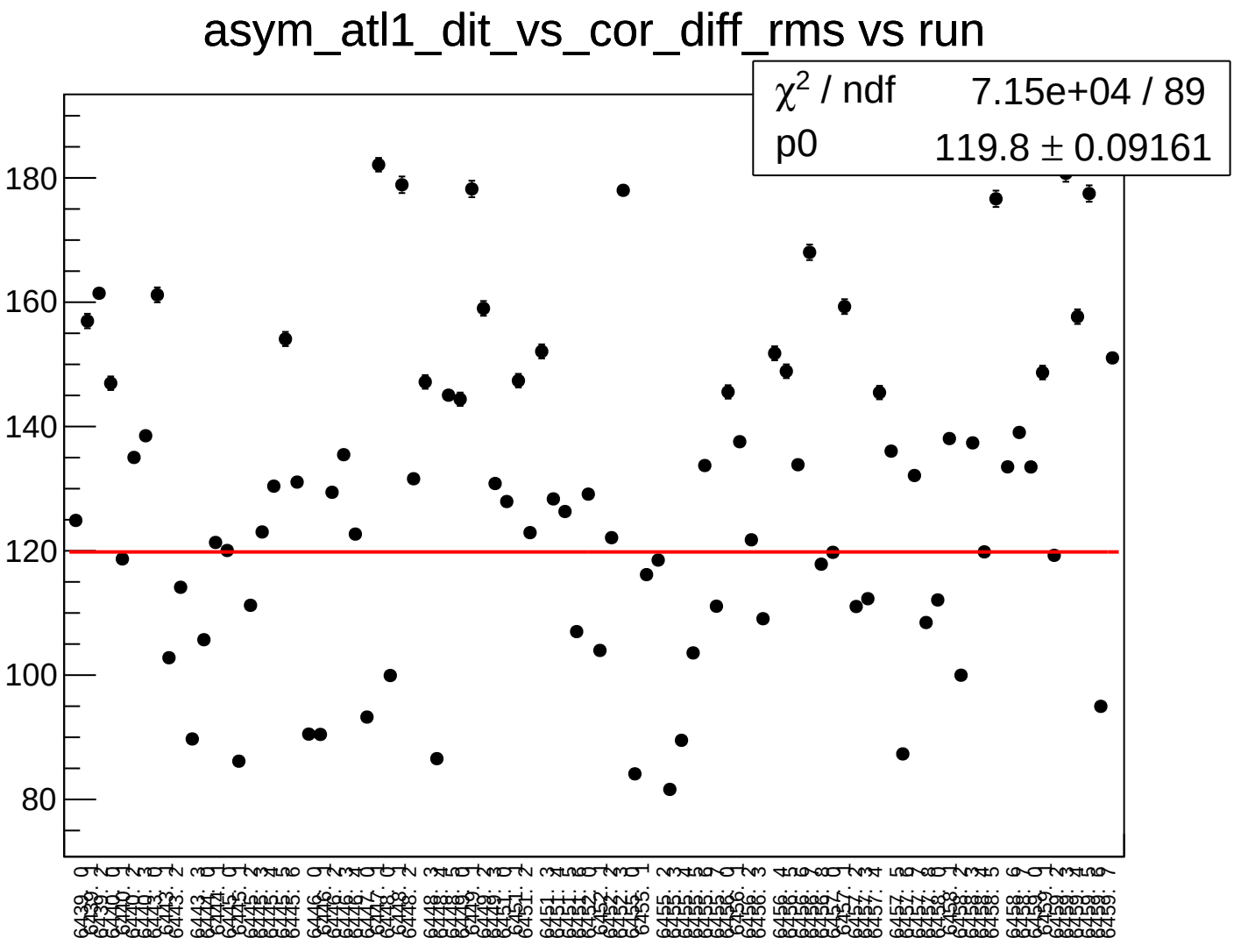

pull1D
Entries 90
Mean 0.009895
Std Dev 1.019

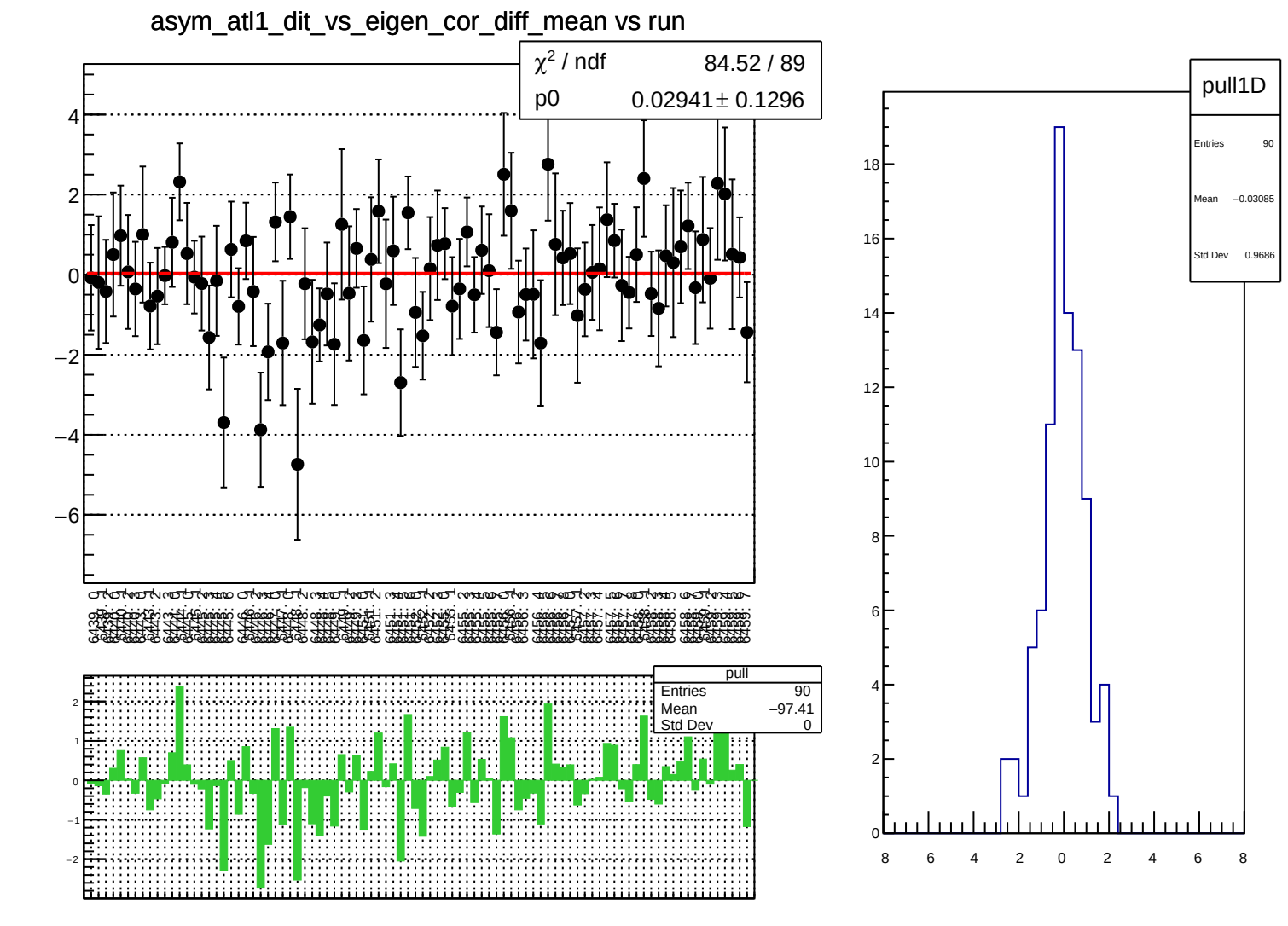

asym_atl1_rms vs run
χ² / ndf 257.8 / 89
p0 2517 ± 1.886
2650
2600
2550
2500
2450

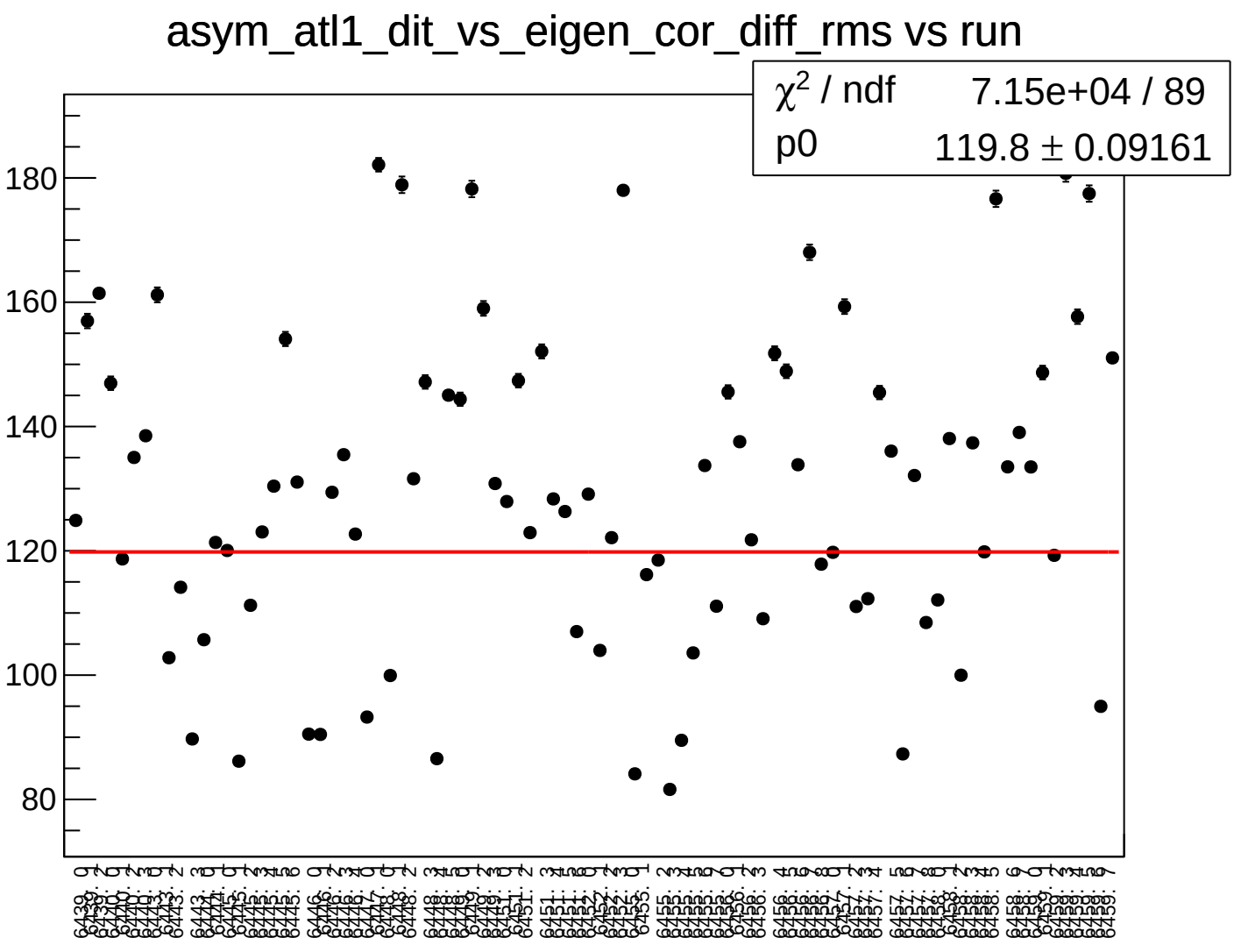

asym_atl1_reg_vs_cor_diff_mean vs run
χ² / ndf 75.27 / 89
p0 −2.574e−14 ± 3.171e−14
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 90
Mean −145.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 90
Mean 0.008754
Std Dev 0.9144
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

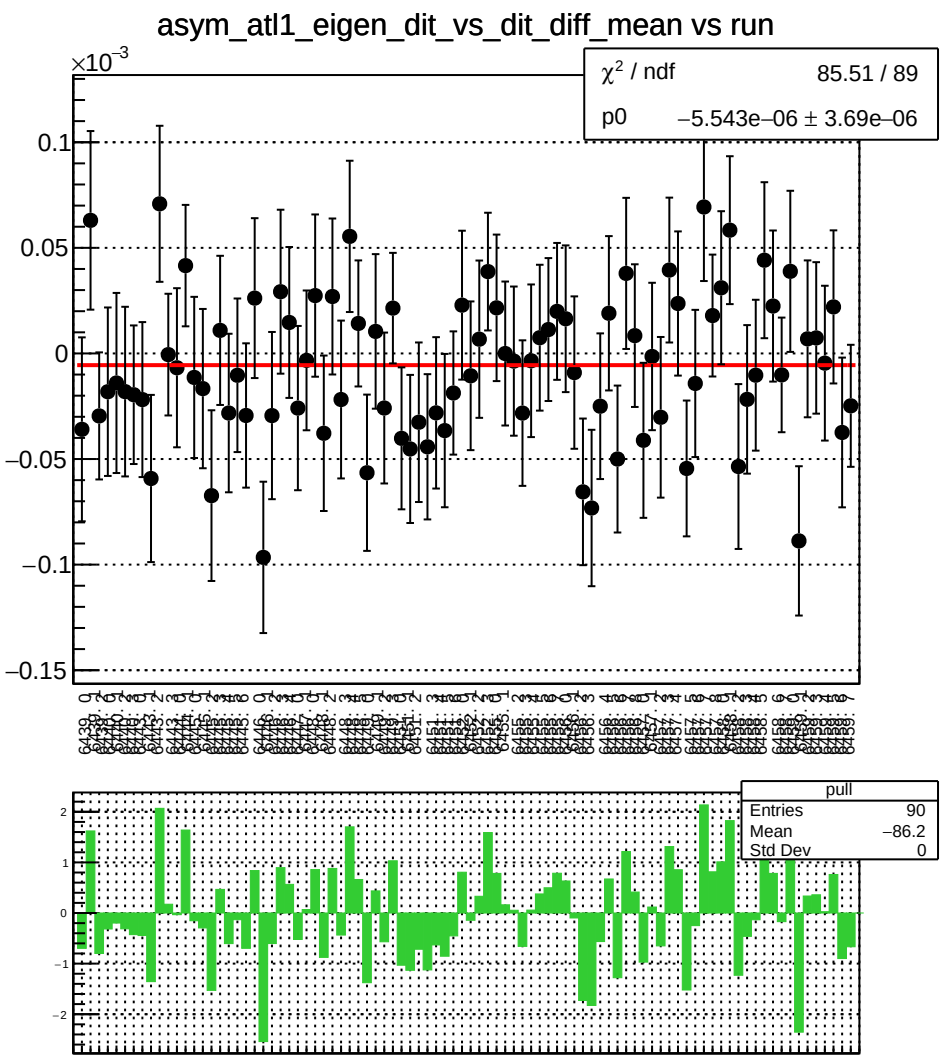

asym_atl1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.096e+06 / 89
p0 1.858e−11 ± 2.243e−14
1.2
1
0.8
0.6
0.4
0.2
0

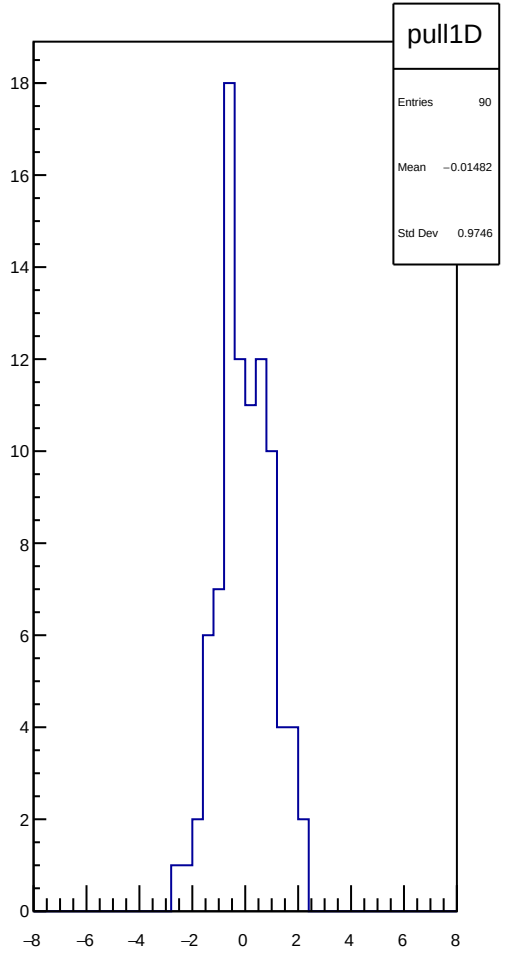

asym_atl1_dit_vs_cor_diff_mean vs run
χ² / ndf 84.52 / 89
p0 0.02941 ± 0.1296
pull
Entries 90
Mean −97.41
Std Dev 0
pull1D
Entries 90
Mean −0.03085
Std Dev 0.9686

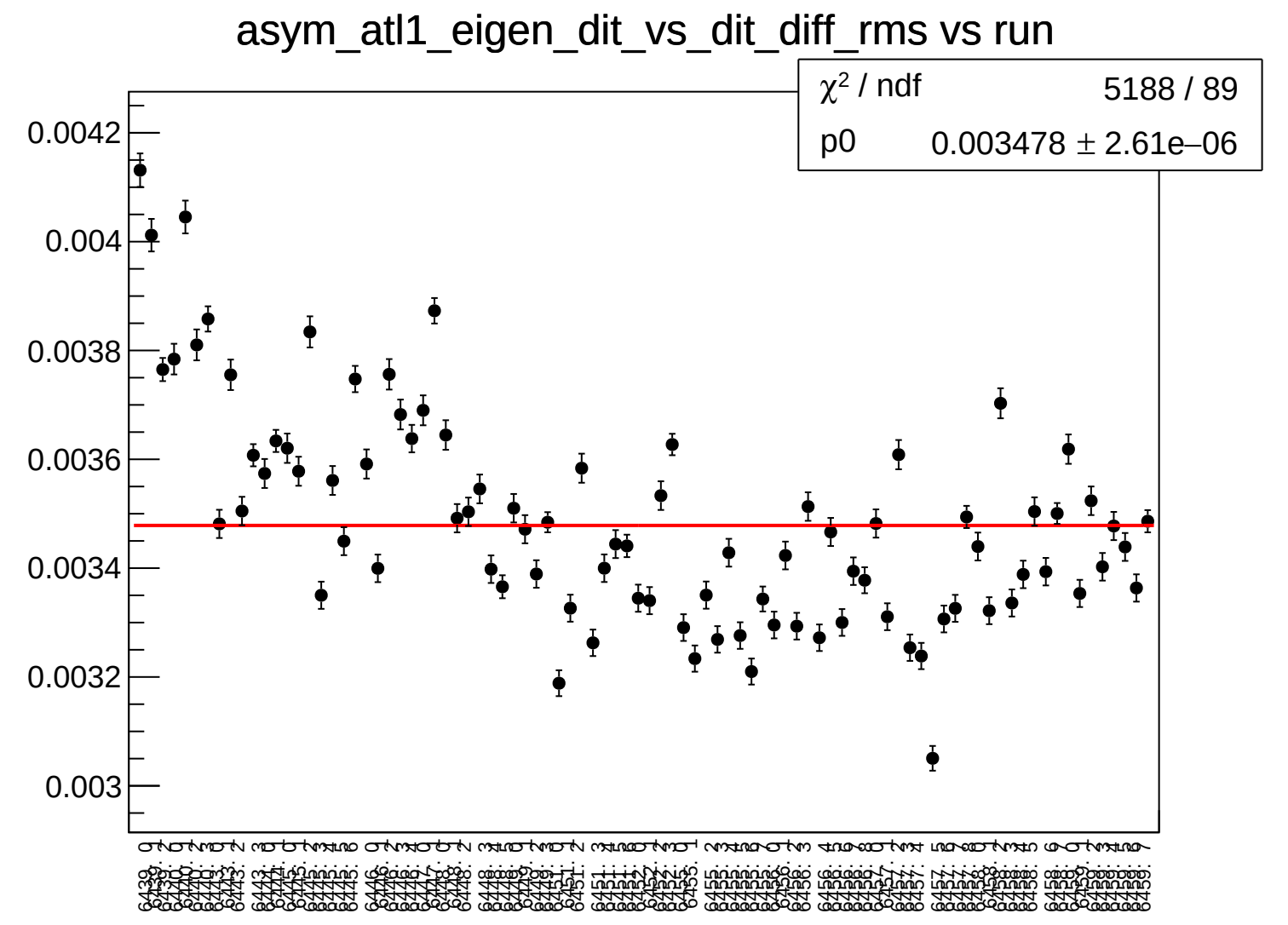

asym_atl1_dit_vs_cor_diff_rms vs run
χ^2 / ndf 7.15e+04 / 89
p0 119.8 ± 0.09161
180
160
140
120
100
80

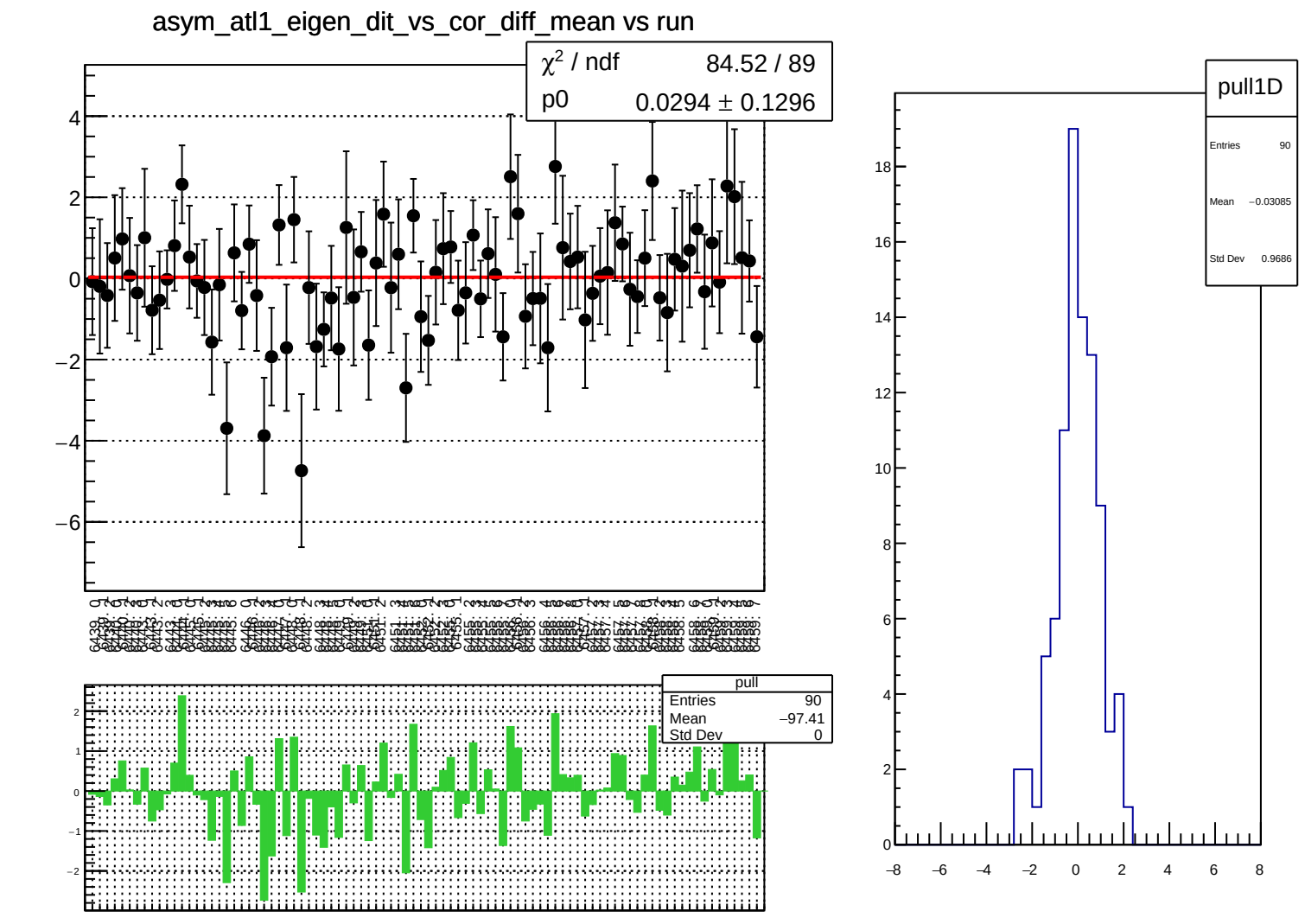

asym_atl1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.52 / 89
p0 0.02941 ± 0.1296
pull
Entries 90
Mean −97.41
Std Dev 0
pull1D
Entries 90
Mean −0.03085
Std Dev 0.9686

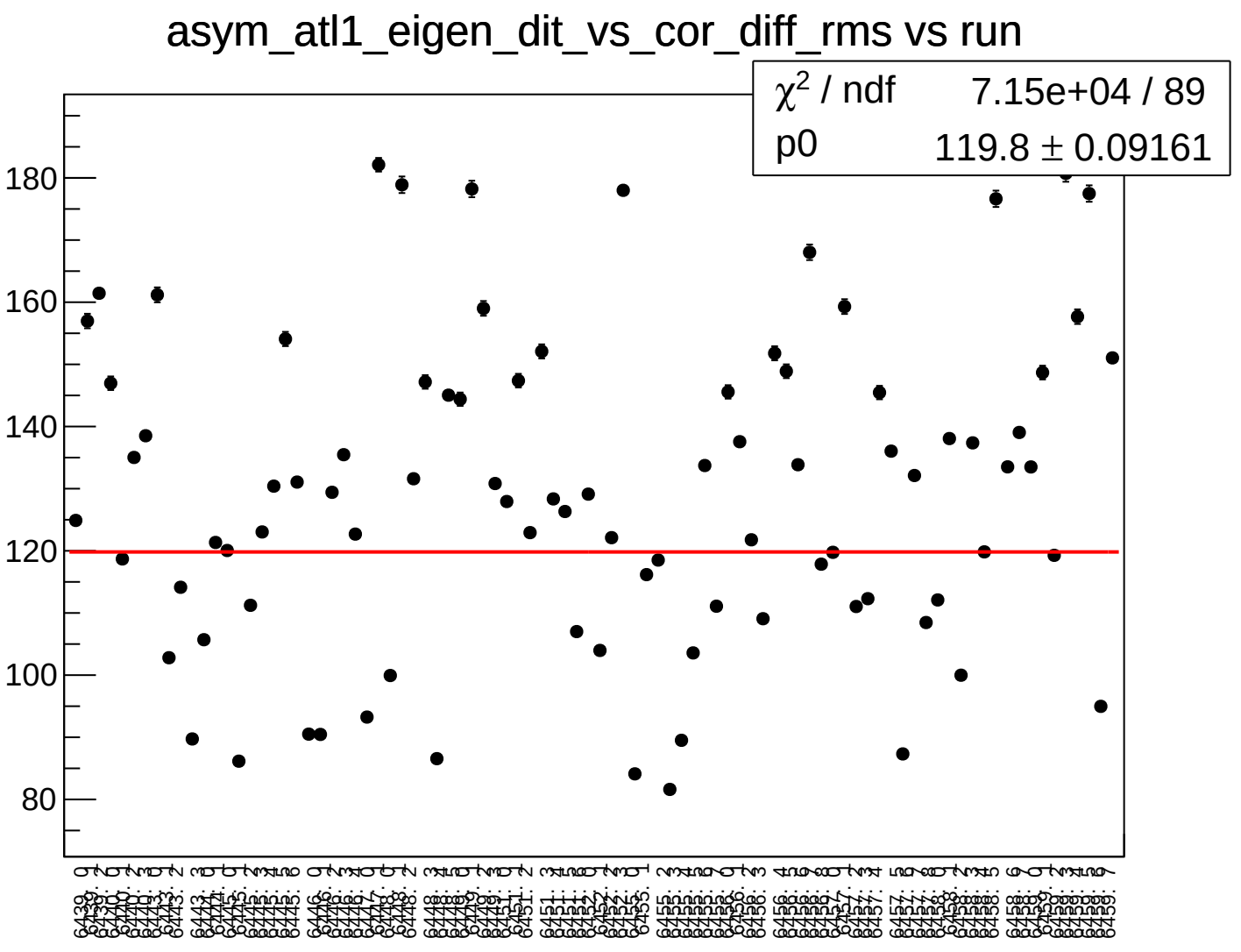

asym_atl1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.15e+04 / 89
p0 119.8 ± 0.09161
180
160
140
120
100
80

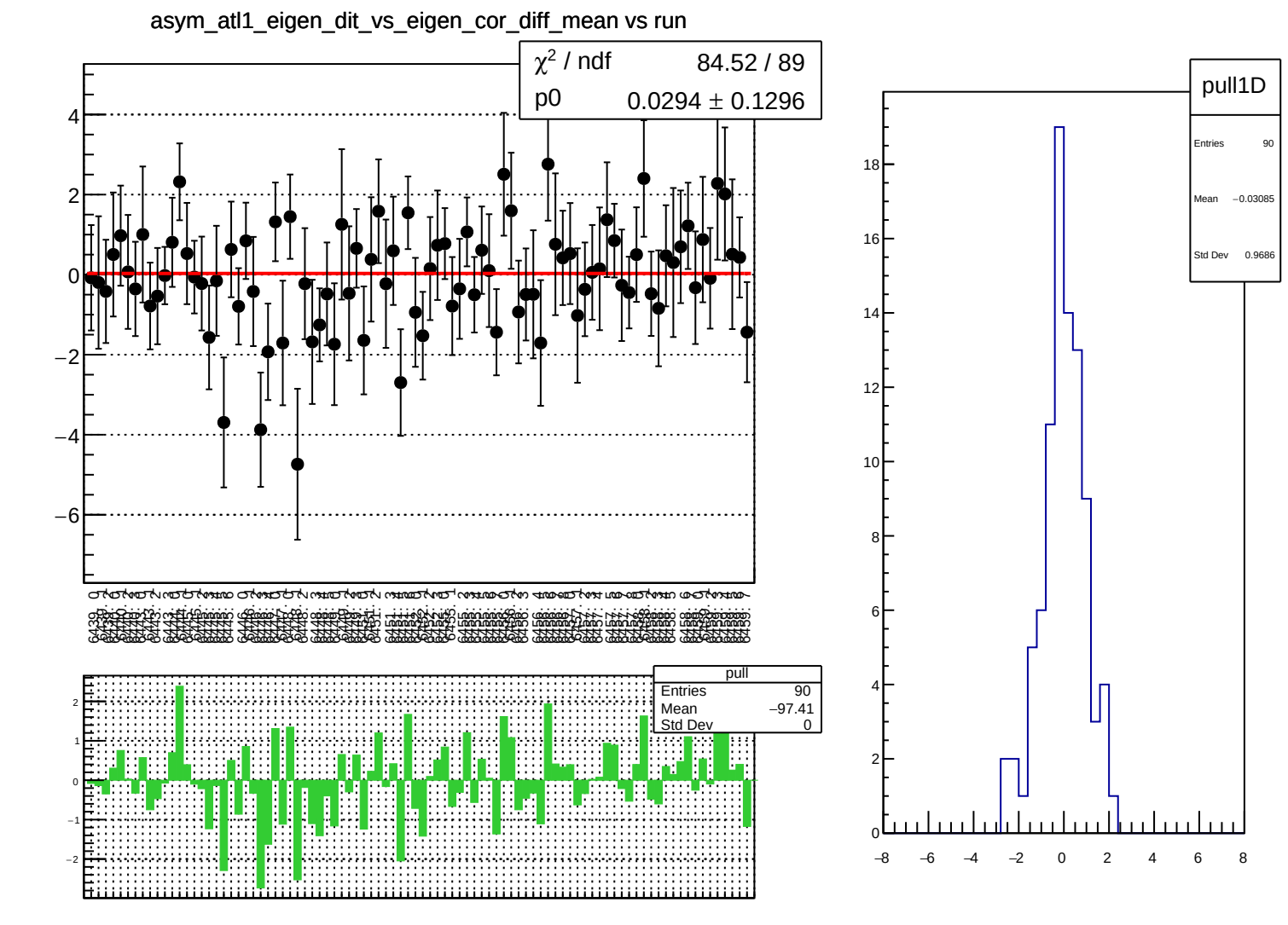

asym_atl1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.51 / 89
p0 −5.543e−06 ± 3.69e−06
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 90
Mean −86.2
Std Dev 0
2
1
0
−1
−2

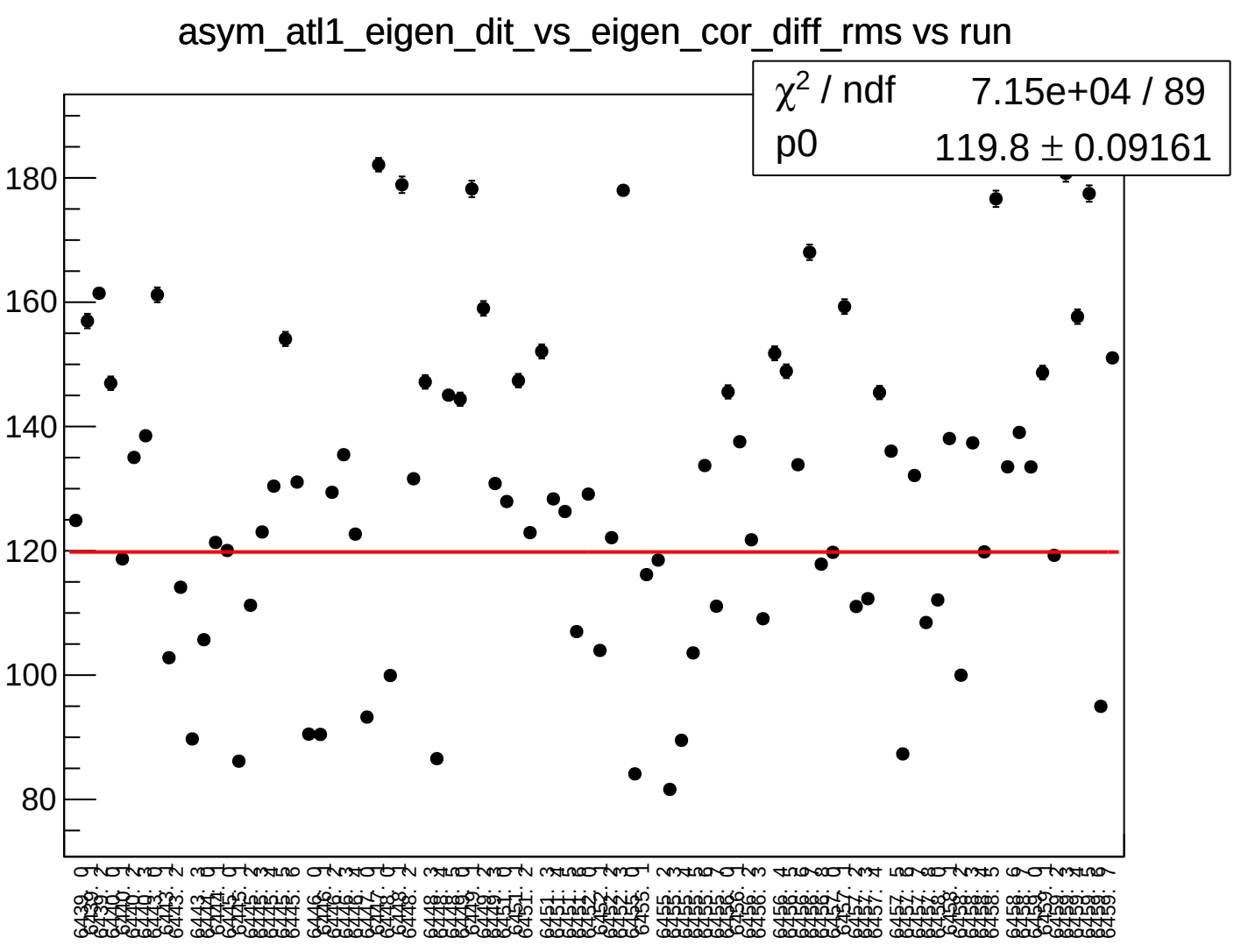

pull1D
Entries 90
Mean −0.01482
Std Dev 0.9746
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

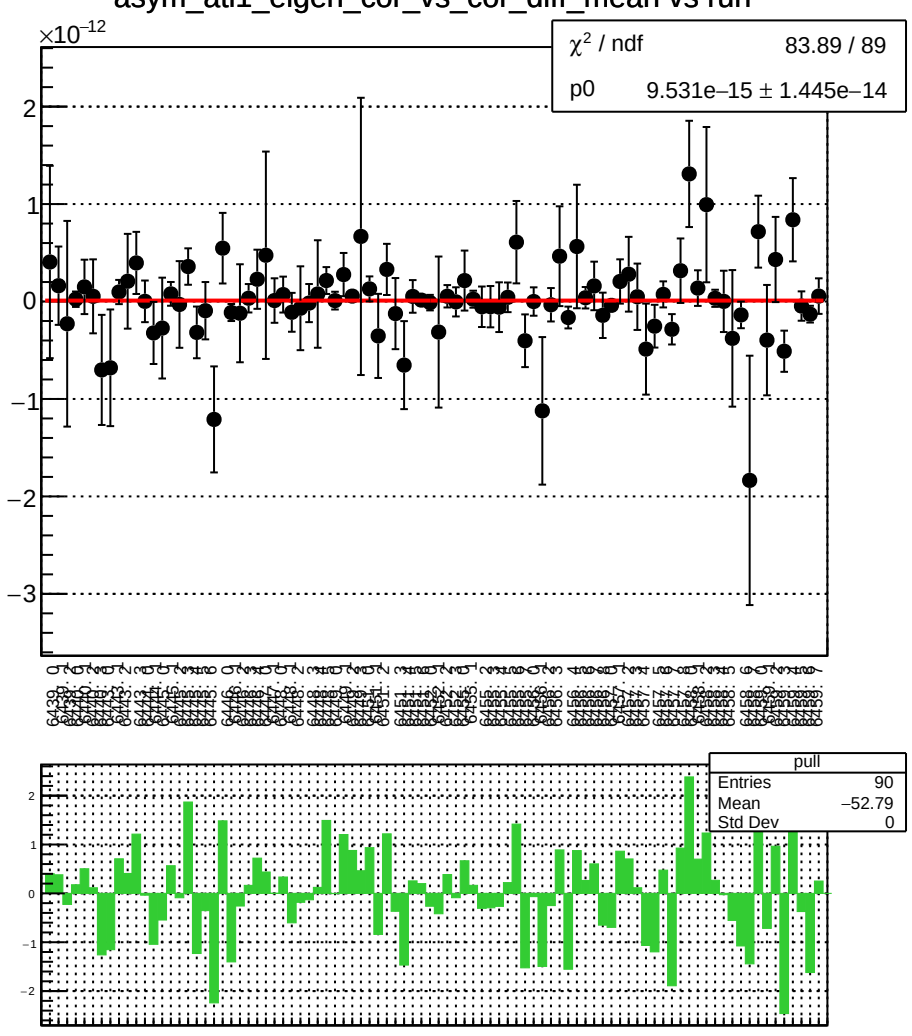

asym_atl1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5188 / 89
p0 0.003478 ± 2.61e–06
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003

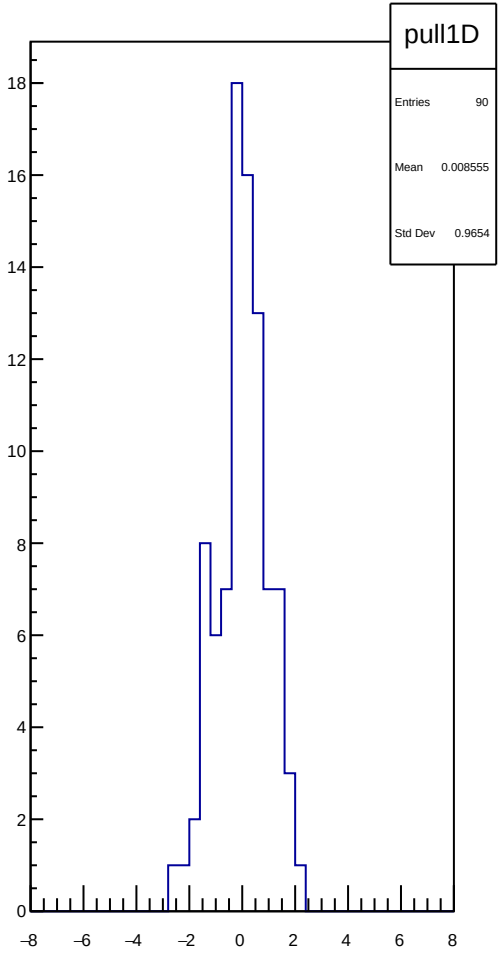

asym_atl1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.52 / 89
p0 0.0294 ± 0.1296
pull
Entries 90
Mean −97.41
Std Dev 0
pull1D
Entries 90
Mean −0.03085
Std Dev 0.9686

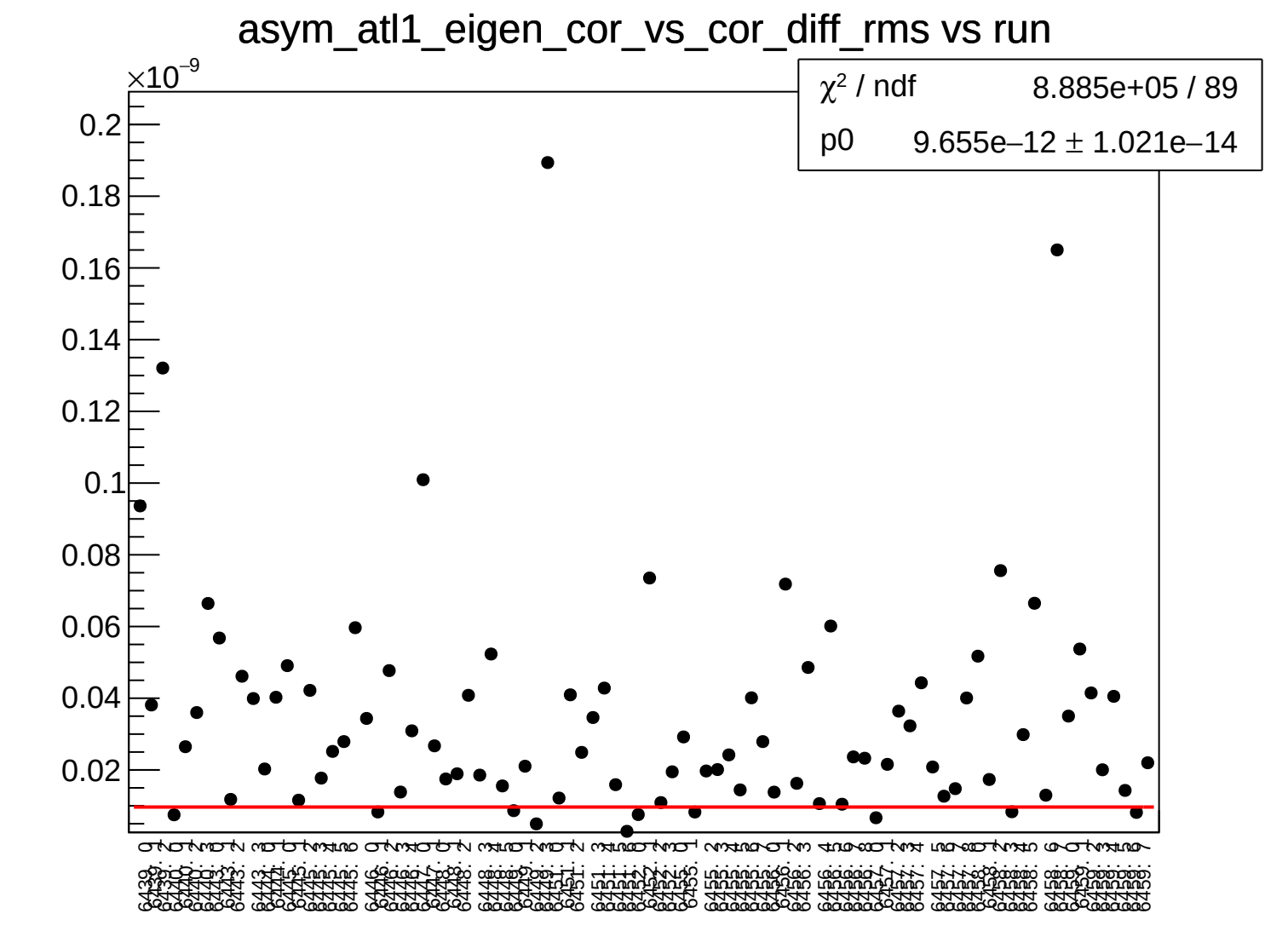

asym_atl1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.15e+04 / 89
p0 119.8 ± 0.09161
180
160
140
120
100
80

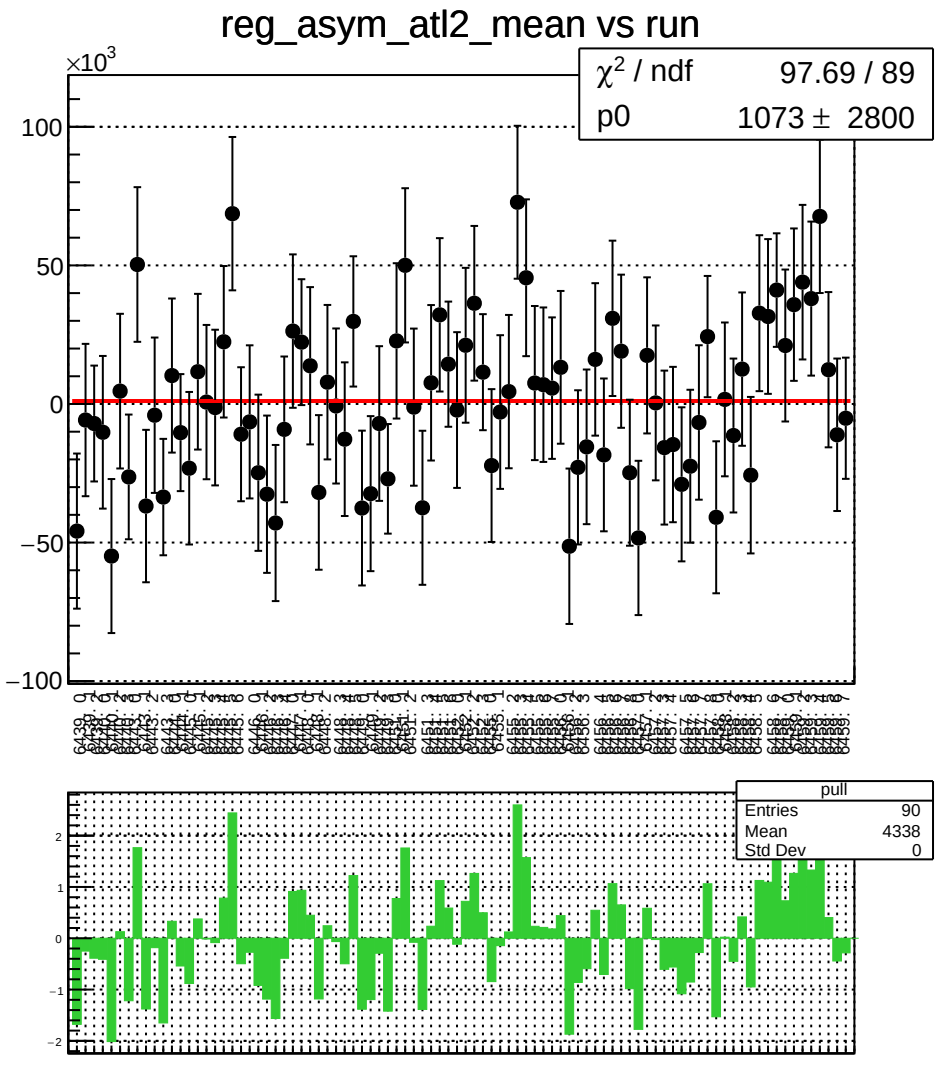

asym_atl1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.52 / 89
p0 0.0294 ± 0.1296
pull
Entries 90
Mean −97.41
Std Dev 0
pull1D
Entries 90
Mean −0.03085
Std Dev 0.9686

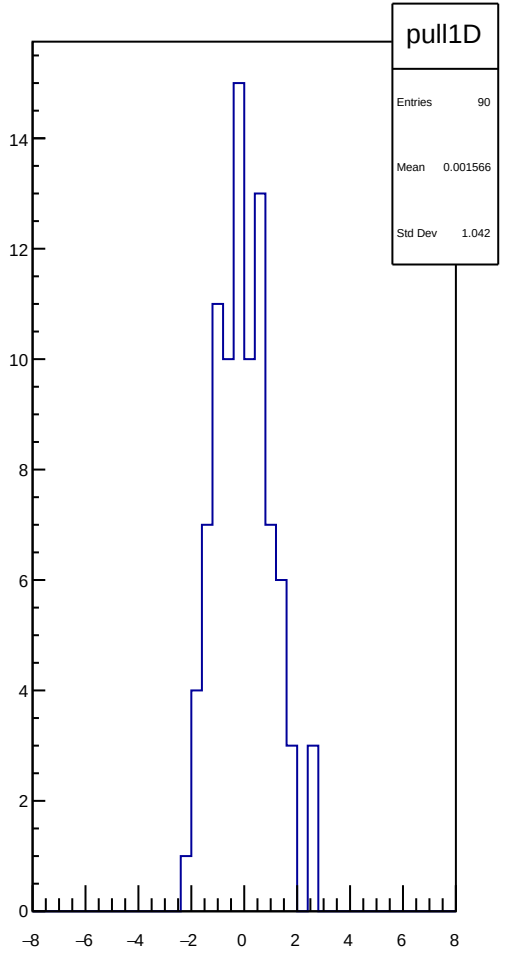

asym_atl1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 7.15e+04 / 89
p0 119.8 ± 0.09161
180
160
140
120
100
80

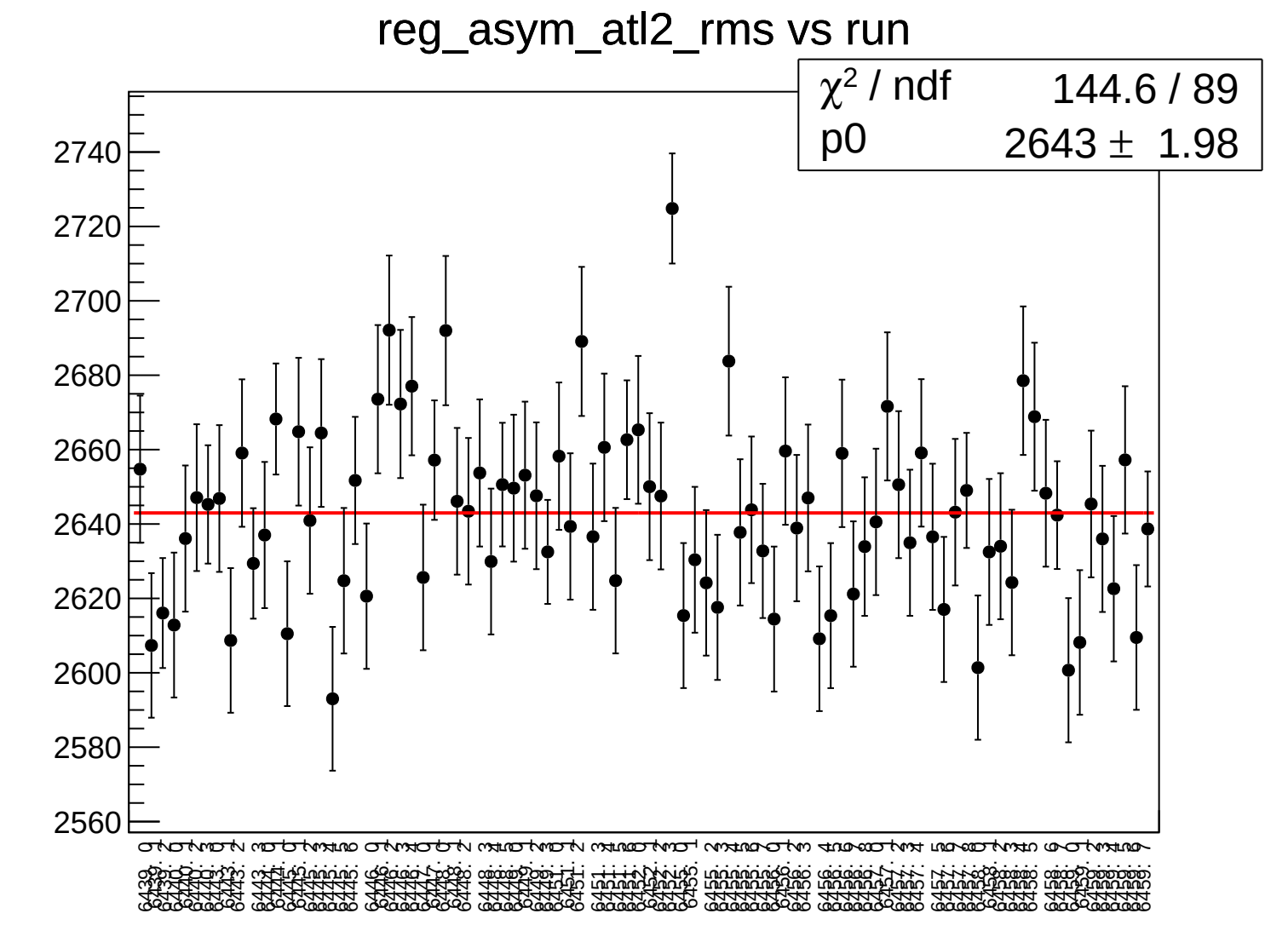

asym_atl1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.89 / 89
p0 9.531e−15 ± 1.445e−14
pull
Entries 90
Mean −52.79
Std Dev 0

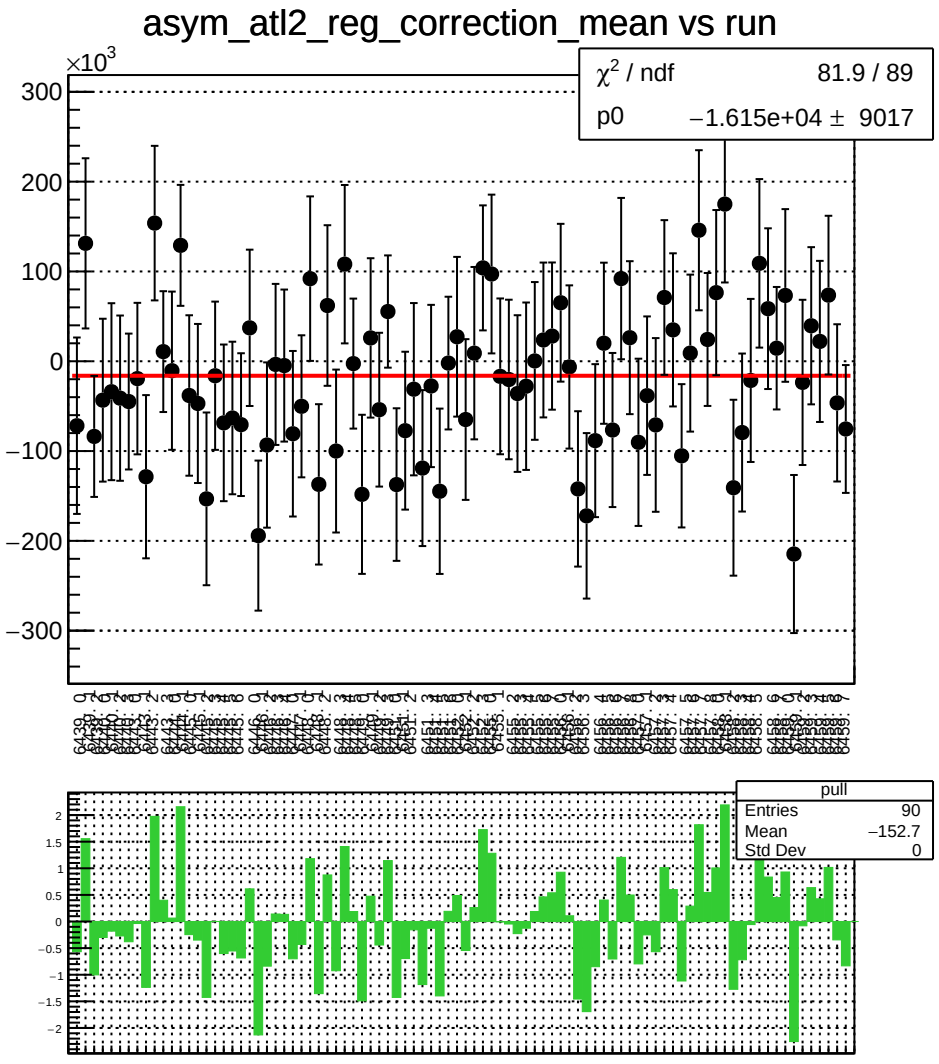

pull1D
Entries 90
Mean 0.008555
Std Dev 0.9654

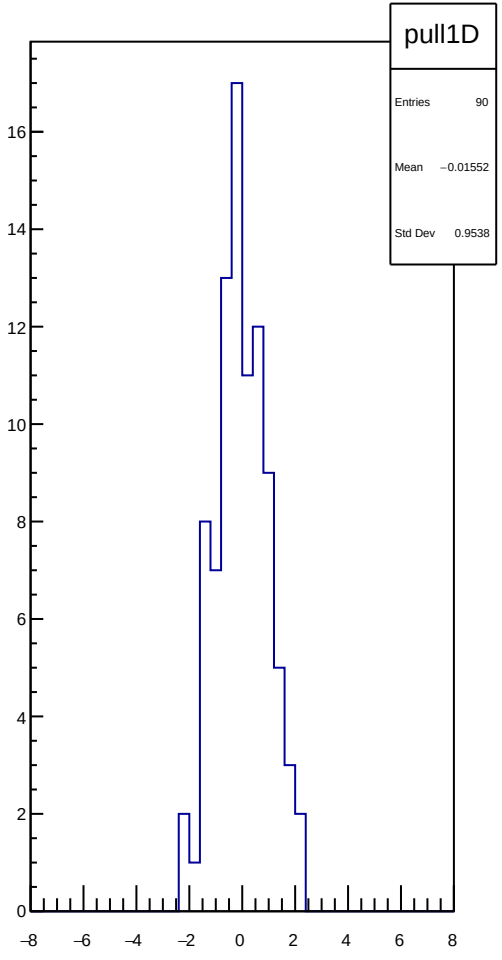

asym_atl1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.885e+05 / 89
p0 9.655e−12 ± 1.021e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

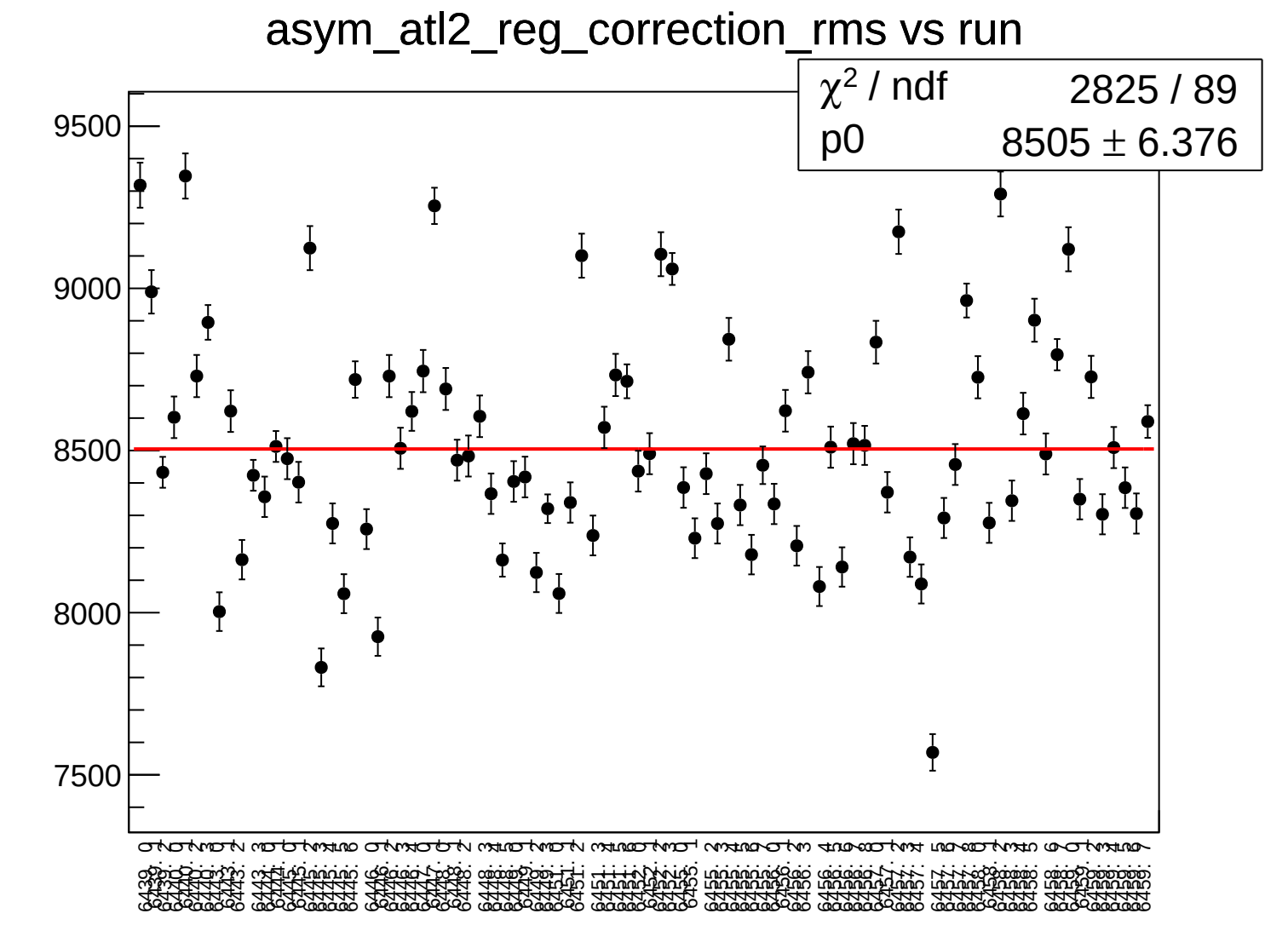

reg_asym_atl2_mean vs run
×10^3
χ^2 / ndf 97.69 / 89
p0 1073 ± 2800
100
50
0
−50
−100
pull
Entries 90
Mean 4338
Std Dev 0
2
1
0
−1
−2

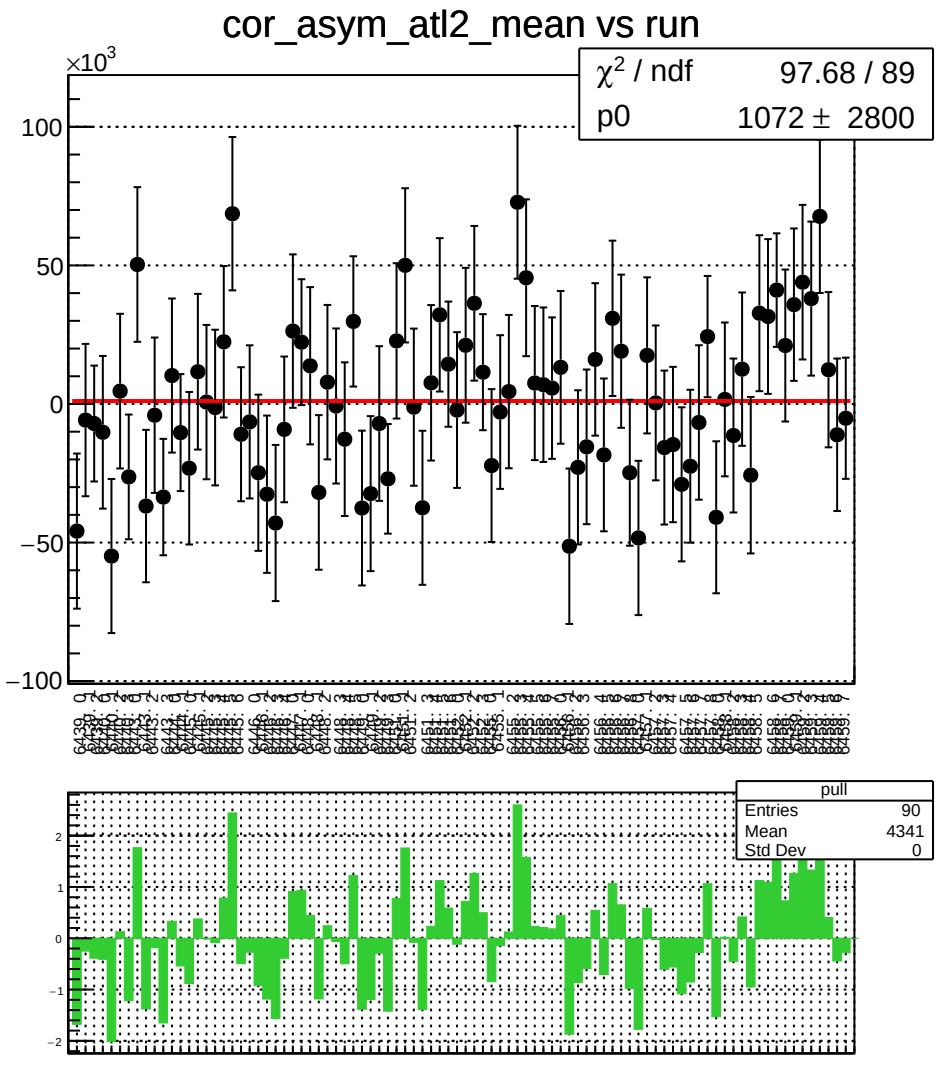

pull1D
Entries 90
Mean 0.001566
Std Dev 1.042
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

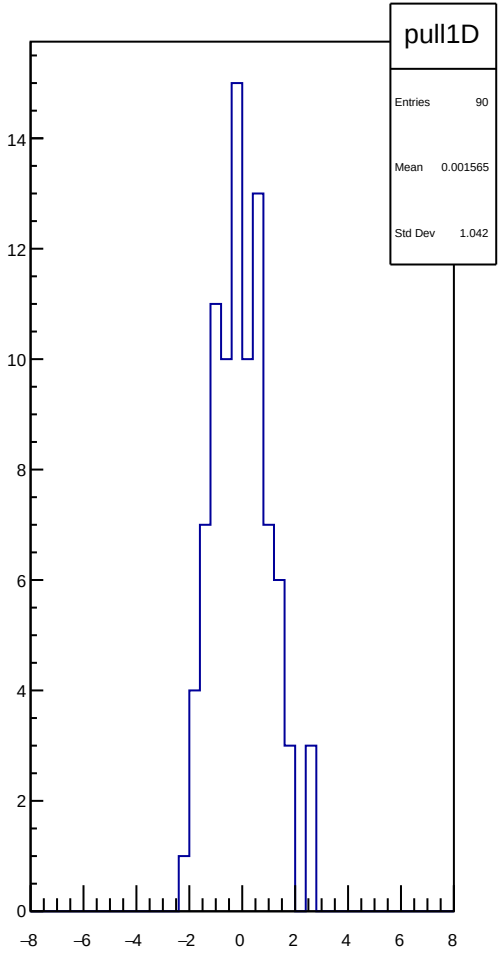

reg_asym_atl2_rms vs run
χ² / ndf 144.6 / 89
p0 2643 ± 1.98
2740
2720
2700
2680
2660
2640
2620
2600
2580
2560

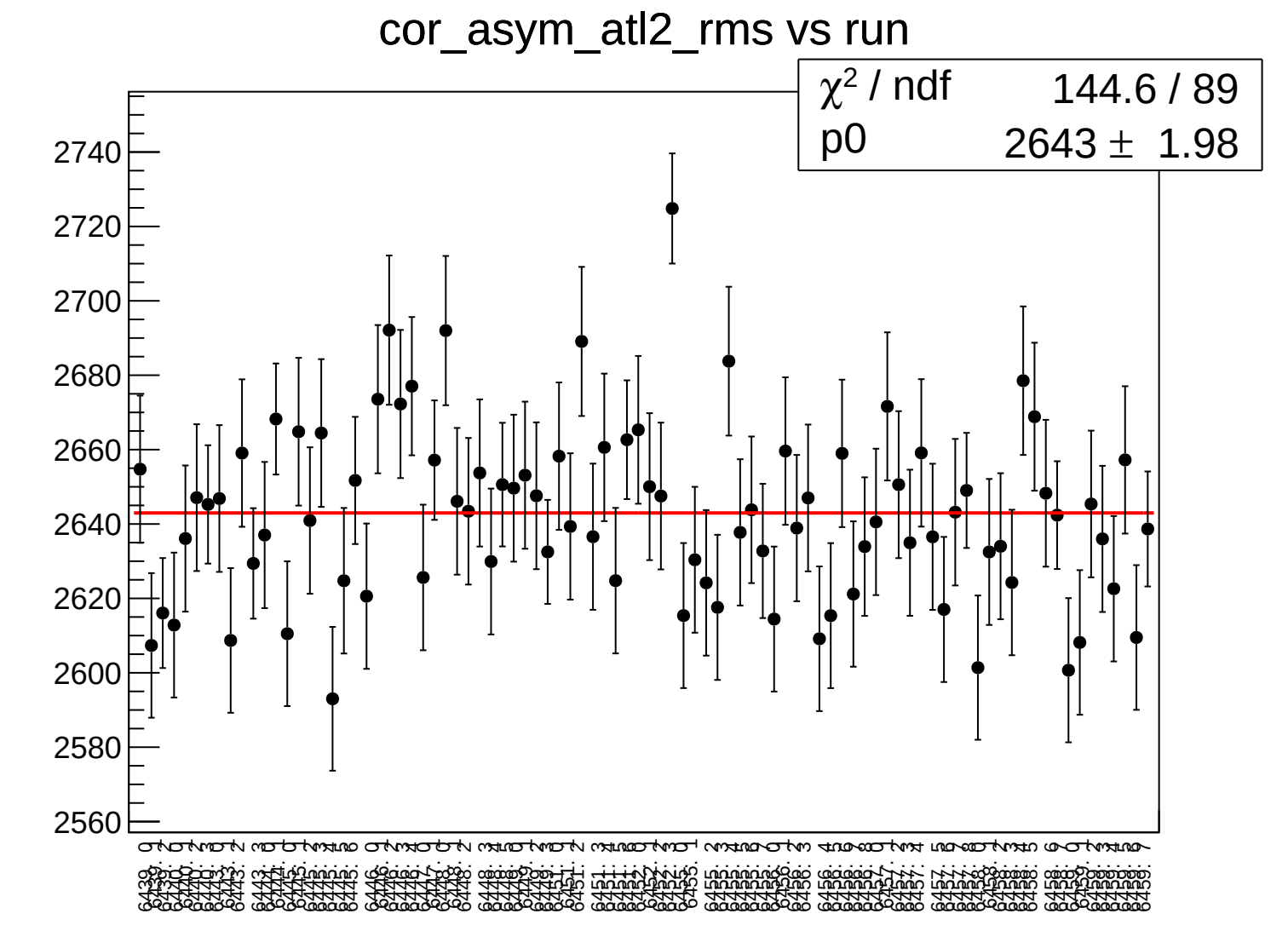

asym_atl2_reg_correction_mean vs run
×10^3
χ² / ndf 81.9 / 89
p0 −1.615e+04 ± 9017
pull
Entries 90
Mean −152.7
Std Dev 0

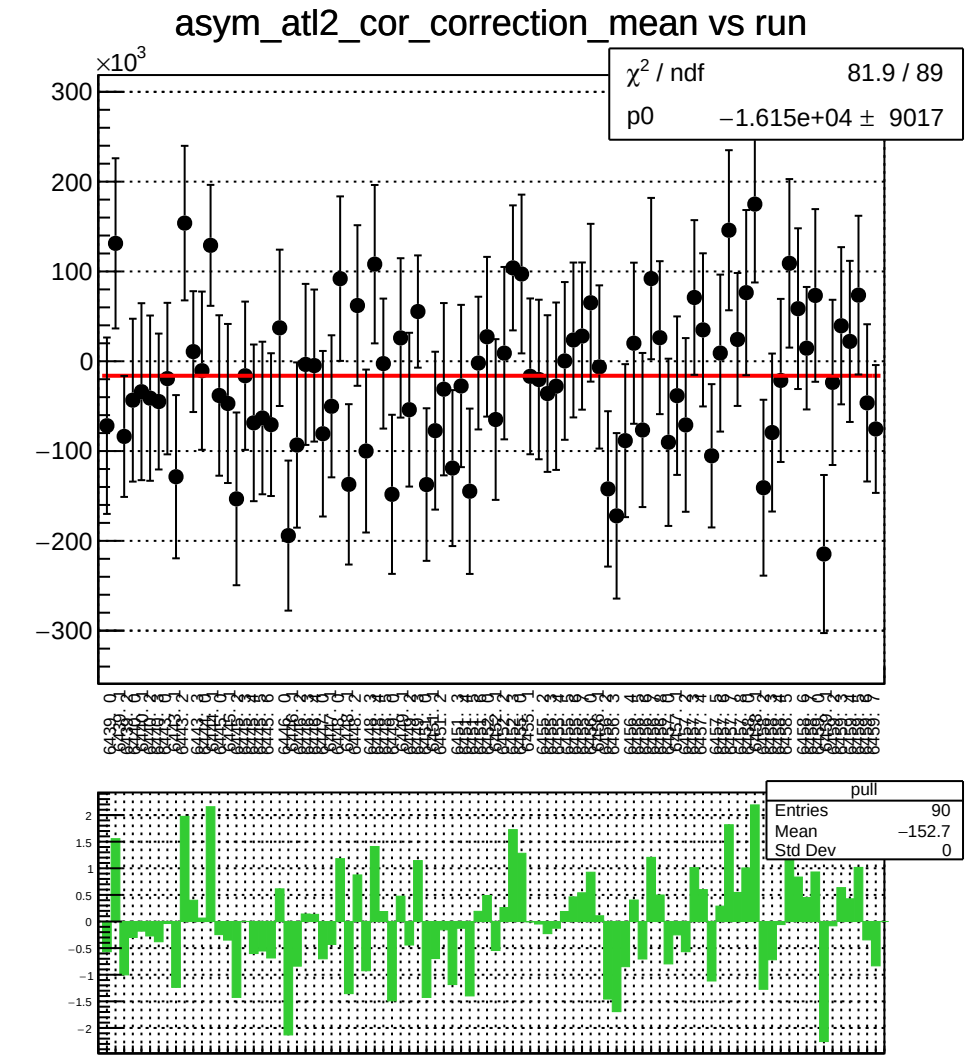

pull1D
Entries 90
Mean −0.01552
Std Dev 0.9538

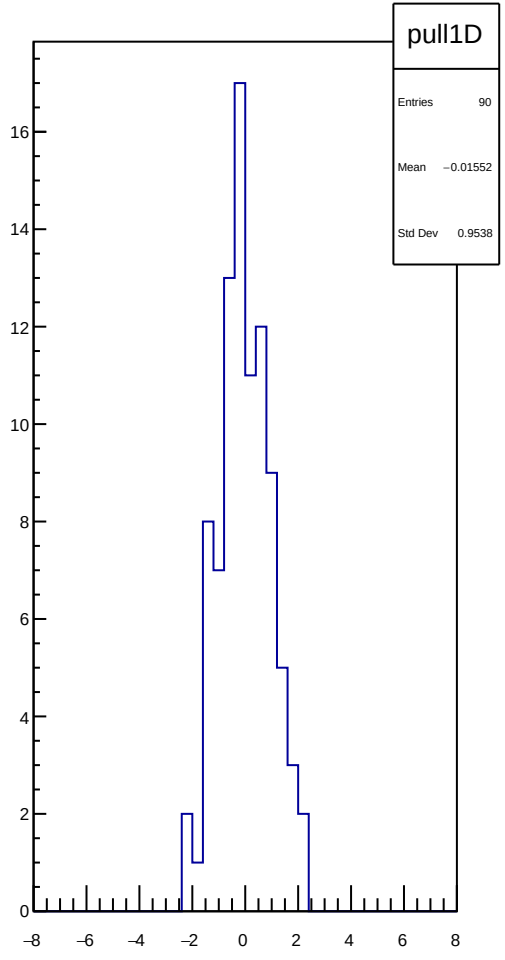

asym_atl2_reg_correction_rms vs run
χ² / ndf 2825 / 89
p0 8505 ± 6.376
9500
9000
8500
8000
7500

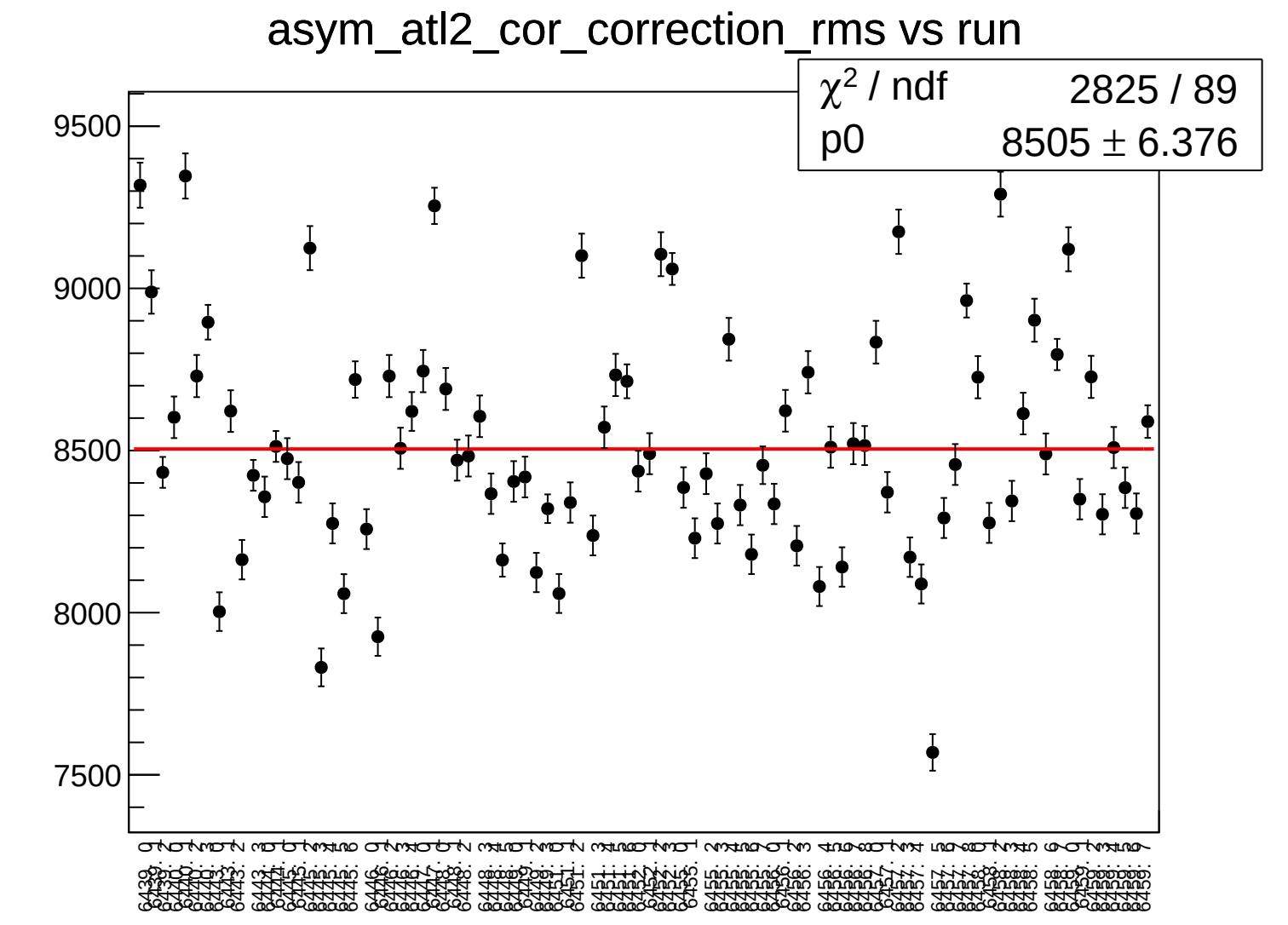

cor_asym_atl2_mean vs run
×10^3
χ^2 / ndf 97.68 / 89
p0 1072 ± 2800
100
50
0
−50
−100
pull
Entries 90
Mean 4341
Std Dev 0
2
1
0
−1
−2

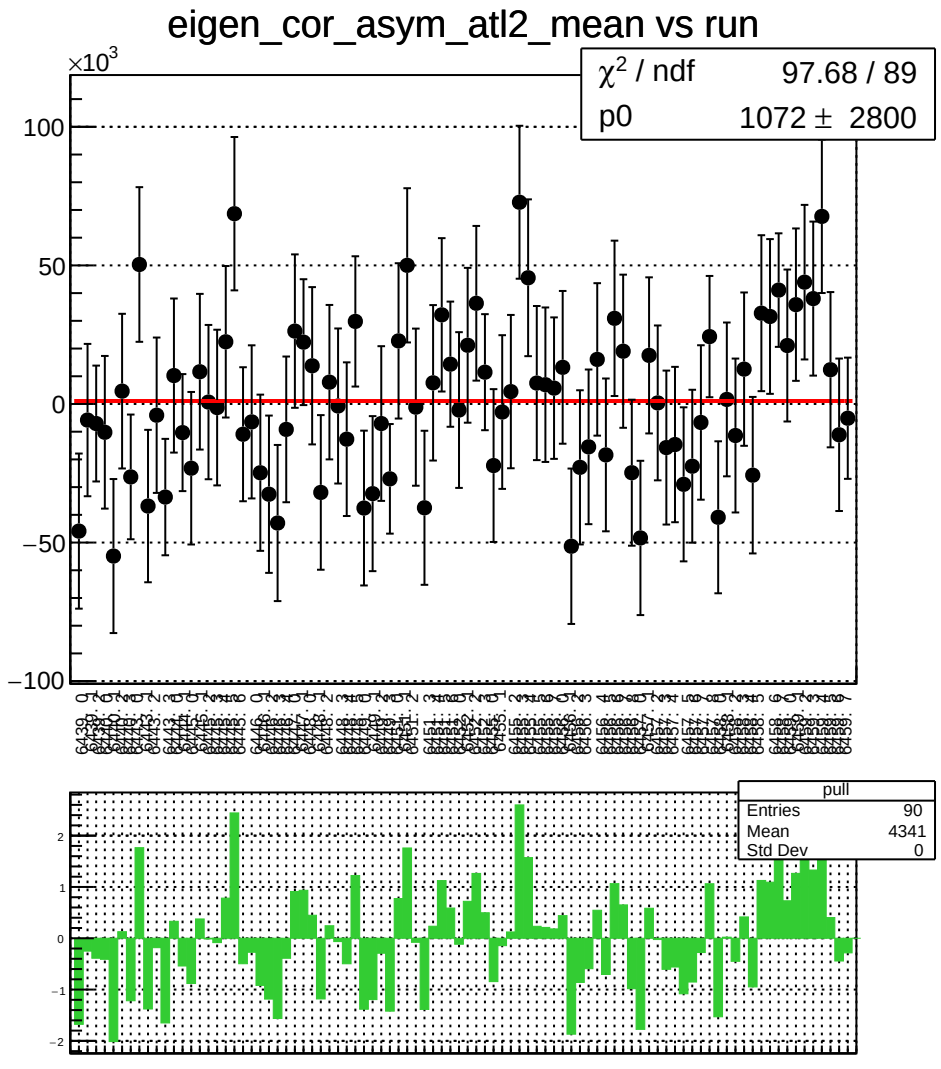

pull1D
Entries 90
Mean 0.001565
Std Dev 1.042
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

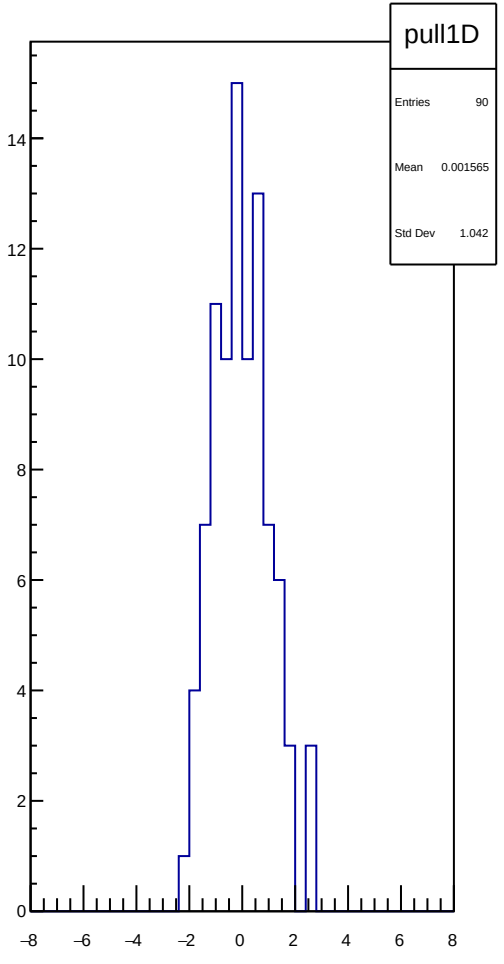

cor_asym_atl2_rms vs run
χ² / ndf 144.6 / 89
p0 2643 ± 1.98
2740
2720
2700
2680
2660
2640
2620
2600
2580
2560

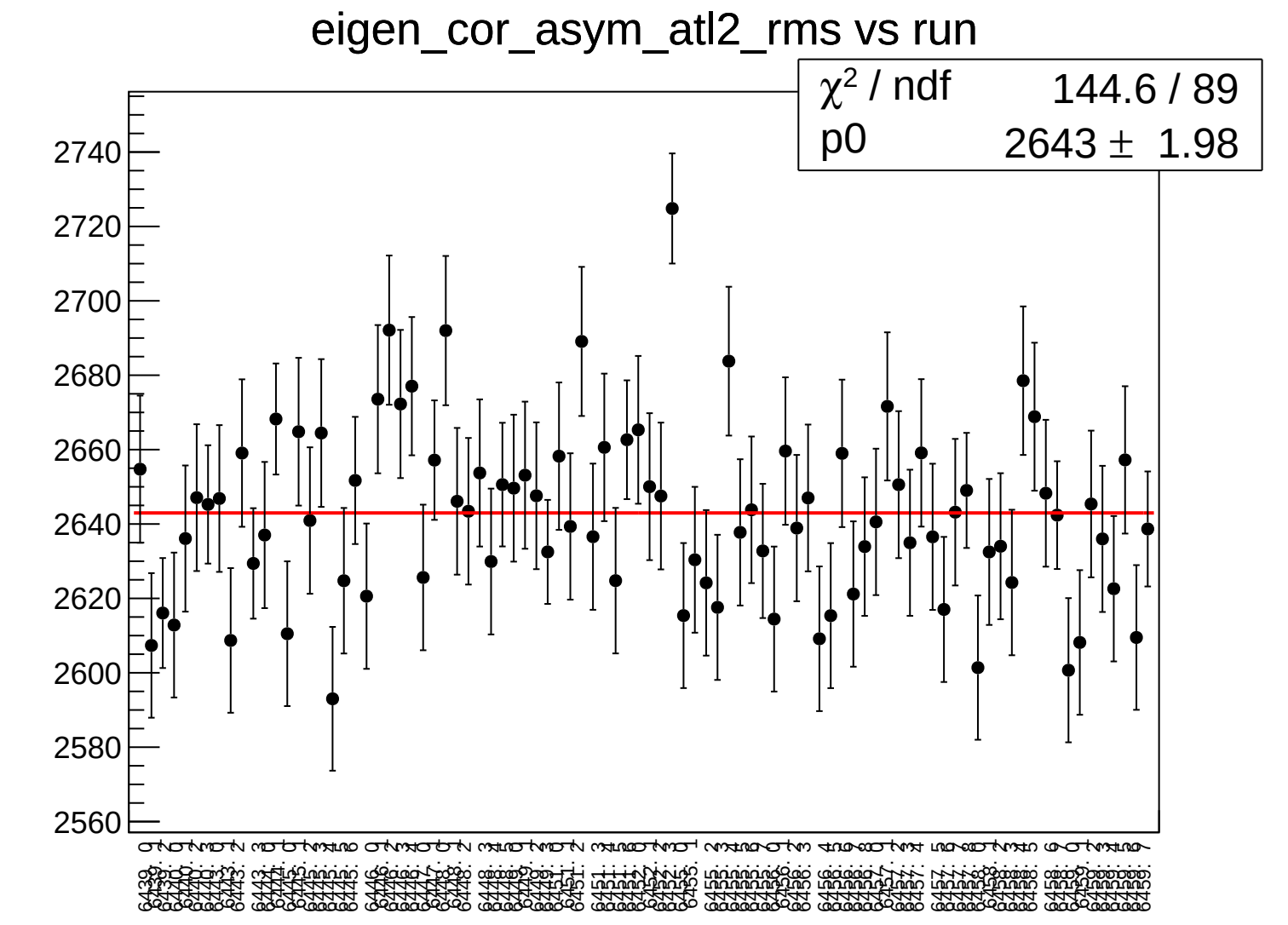

asym_atl2_cor_correction_mean vs run
×10^3
χ² / ndf 81.9 / 89
p0 −1.615e+04 ± 9017
pull
Entries 90
Mean −152.7
Std Dev 0

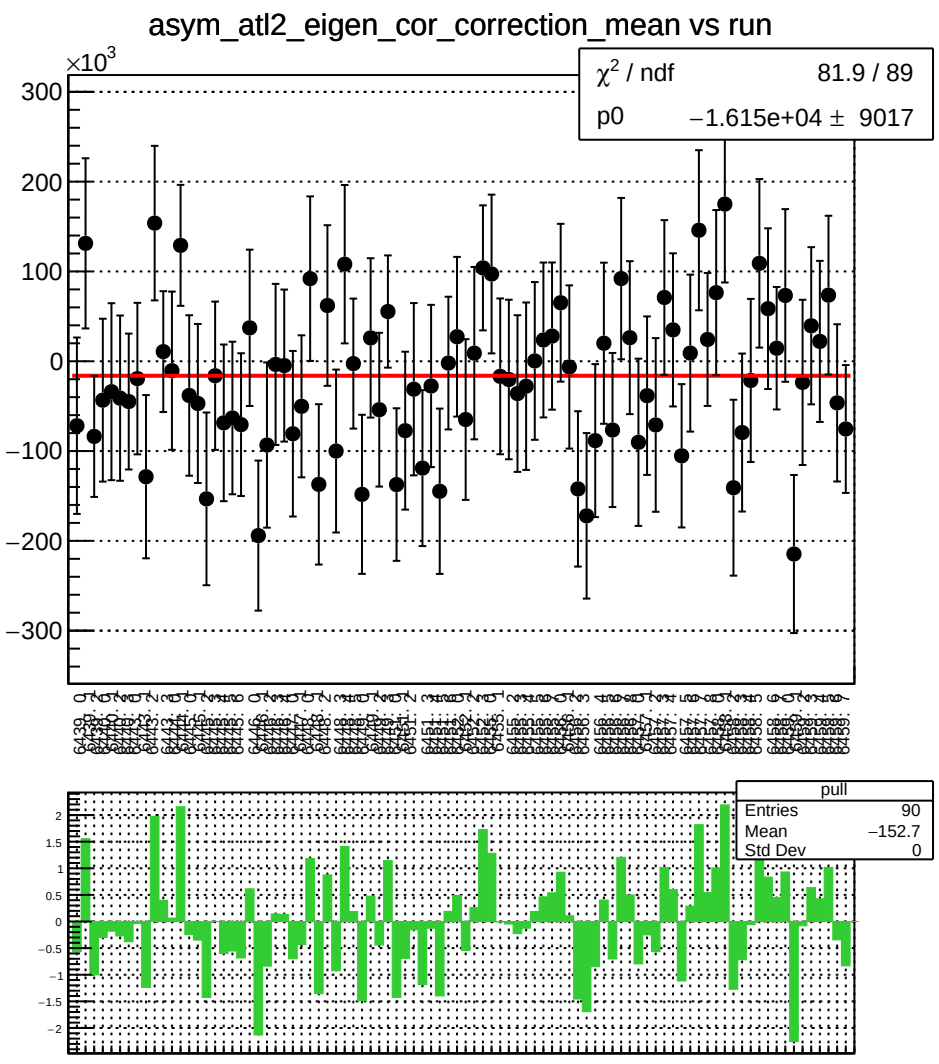

pull1D
Entries 90
Mean −0.01552
Std Dev 0.9538

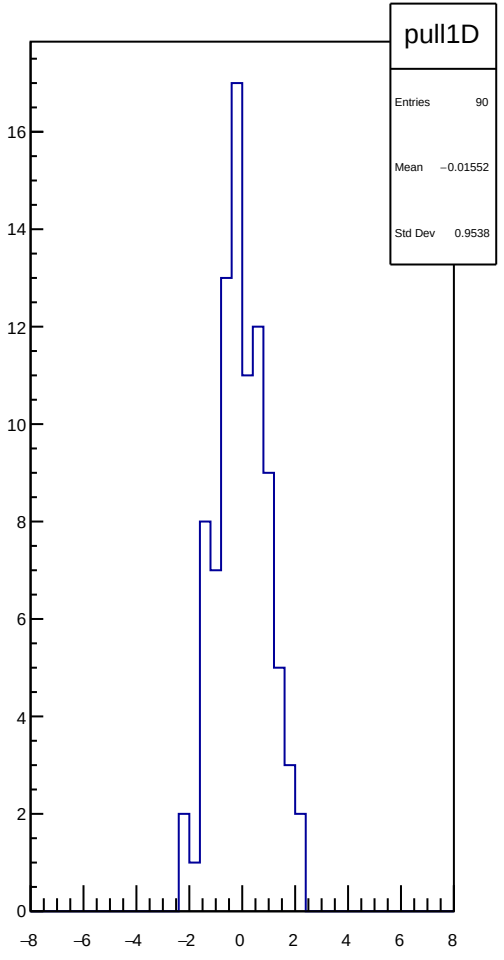

asym_atl2_cor_correction_rms vs run
χ² / ndf 2825 / 89
p0 8505 ± 6.376
9500
9000
8500
8000
7500

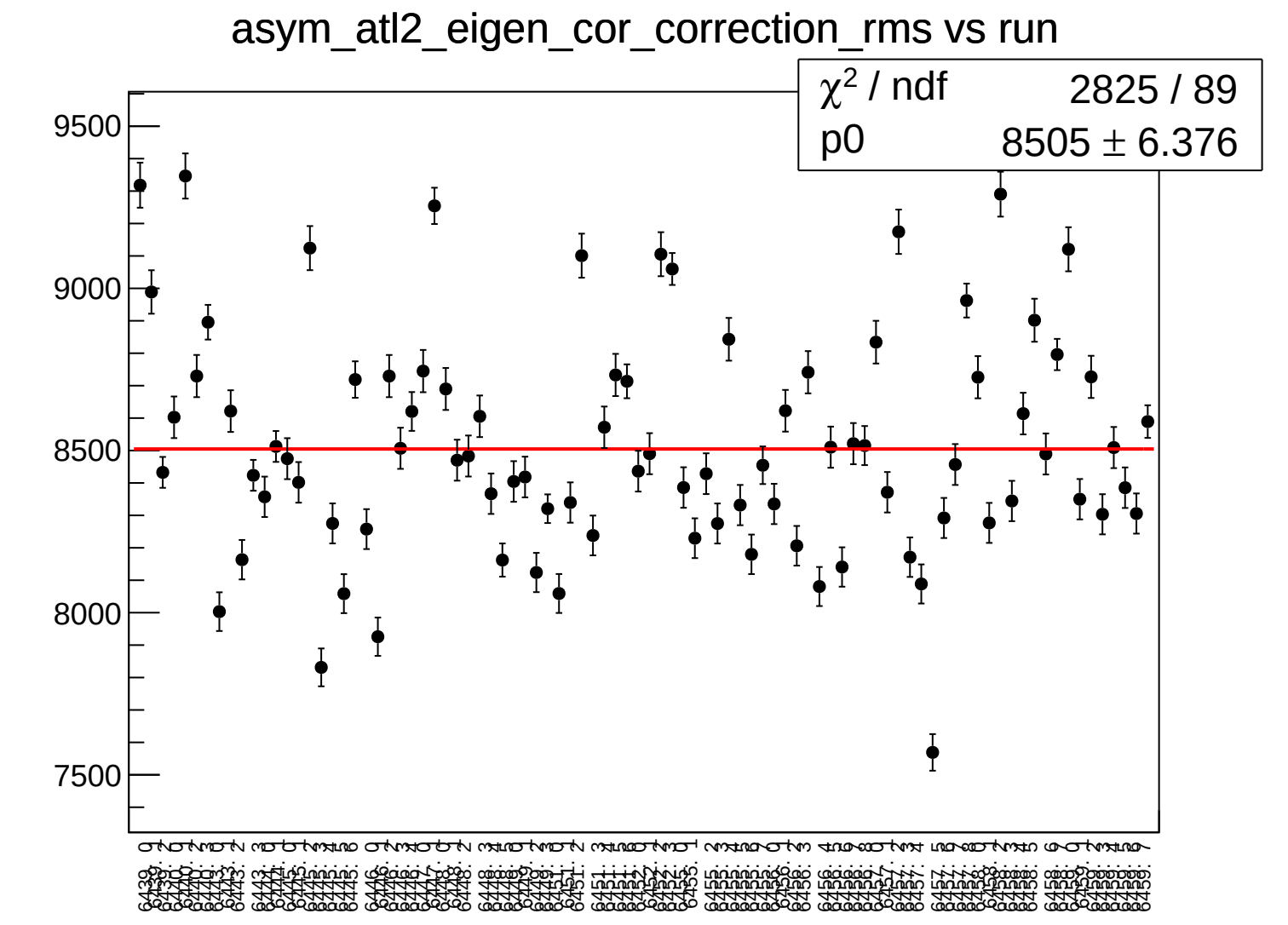

eigen_cor_asym_atl2_mean vs run
χ² / ndf 97.68 / 89
p0 1072 ± 2800
×10³
100
50
0
−50
−100
pull
Entries 90
Mean 4341
Std Dev 0
2
1
0
−1
−2

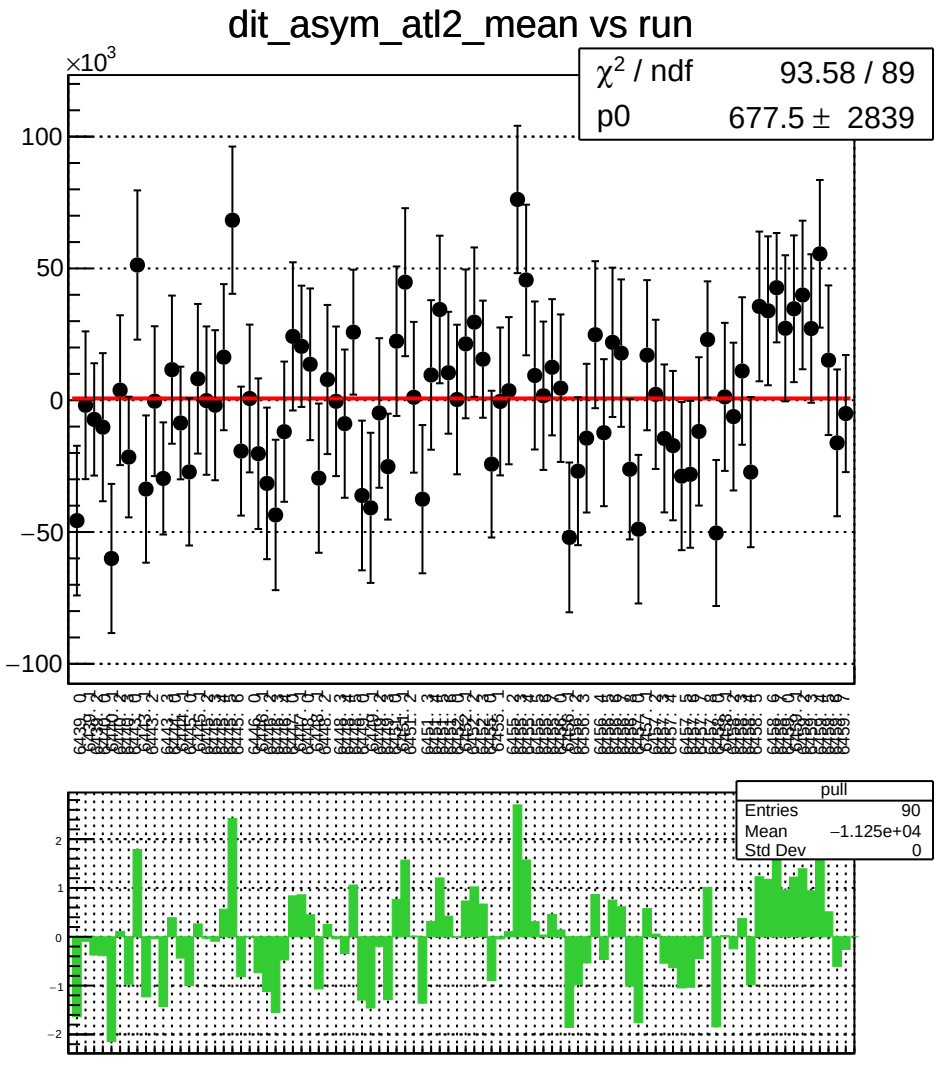

pull1D
Entries 90
Mean 0.001565
Std Dev 1.042
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

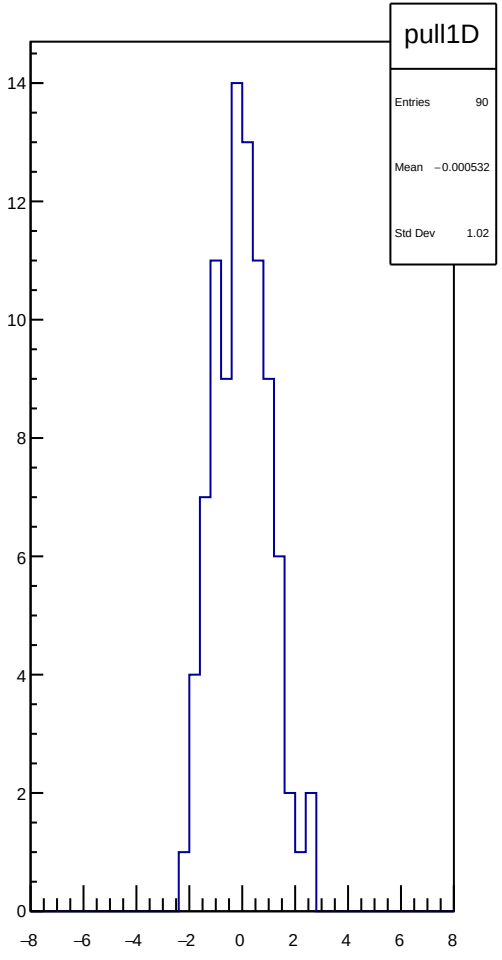

eigen_cor_asym_atl2_rms vs run
χ² / ndf 144.6 / 89
p0 2643 ± 1.98
2740
2720
2700
2680
2660
2640
2620
2600
2580
2560

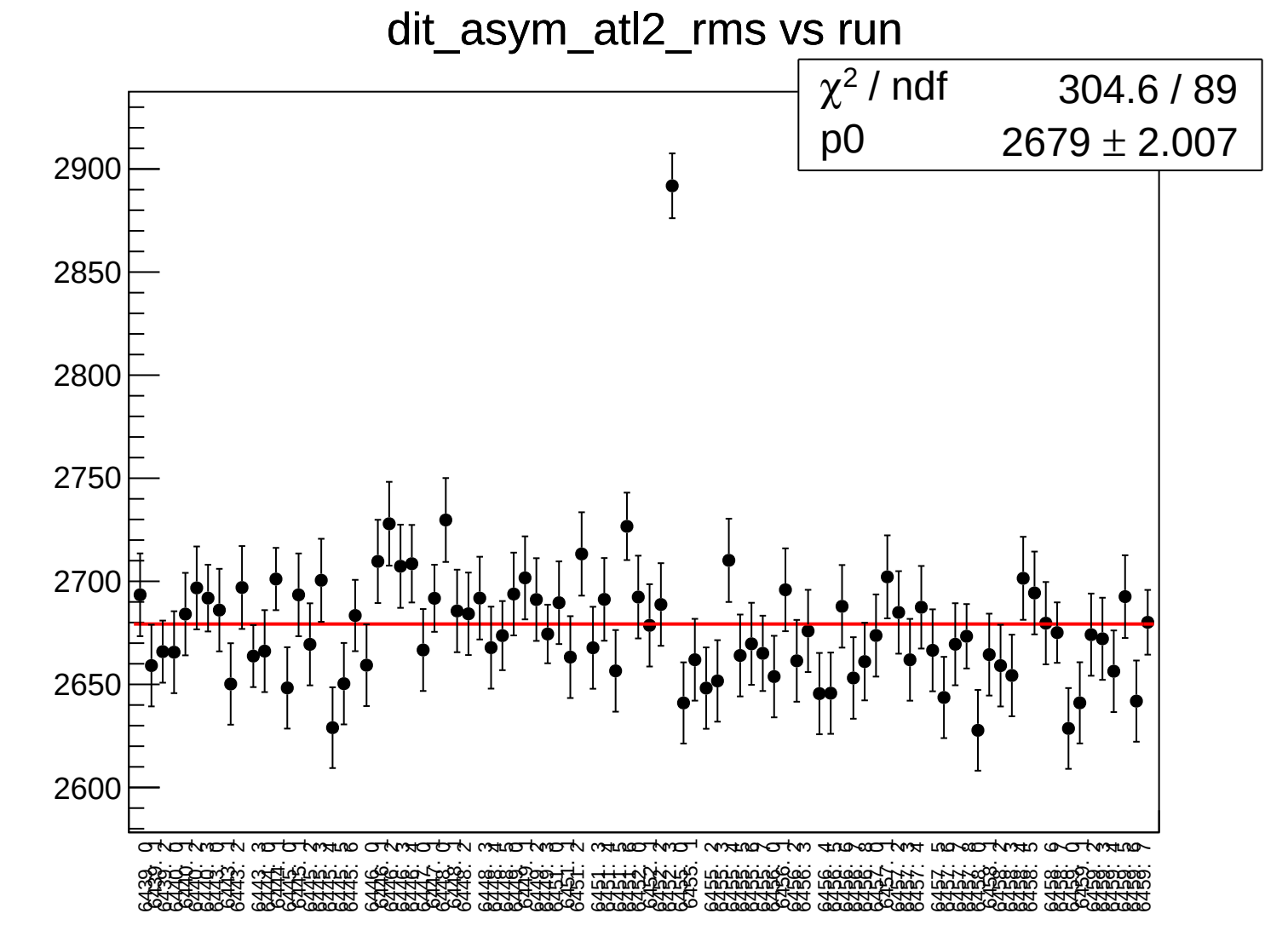

asym_atl2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 81.9 / 89
p0 −1.615e+04 ± 9017
pull
Entries 90
Mean −152.7
Std Dev 0

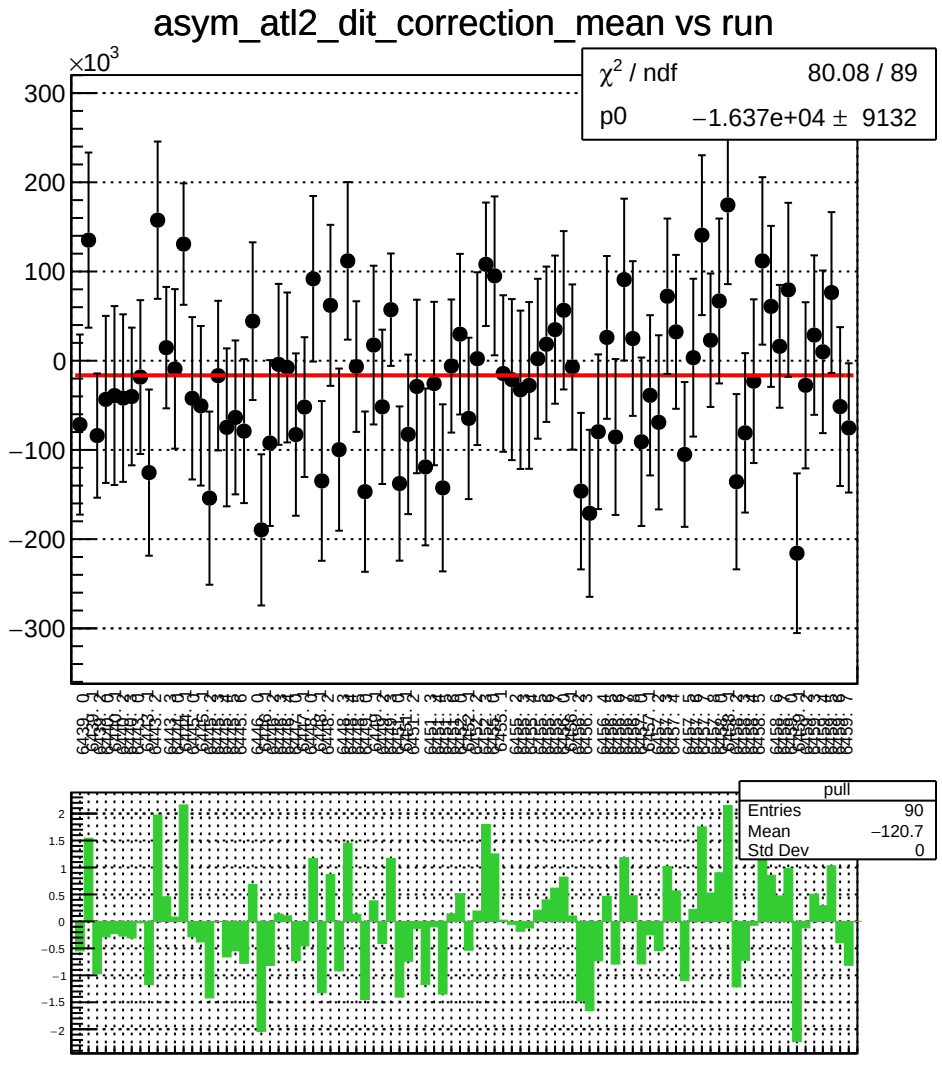

pull1D
Entries 90
Mean −0.01552
Std Dev 0.9538

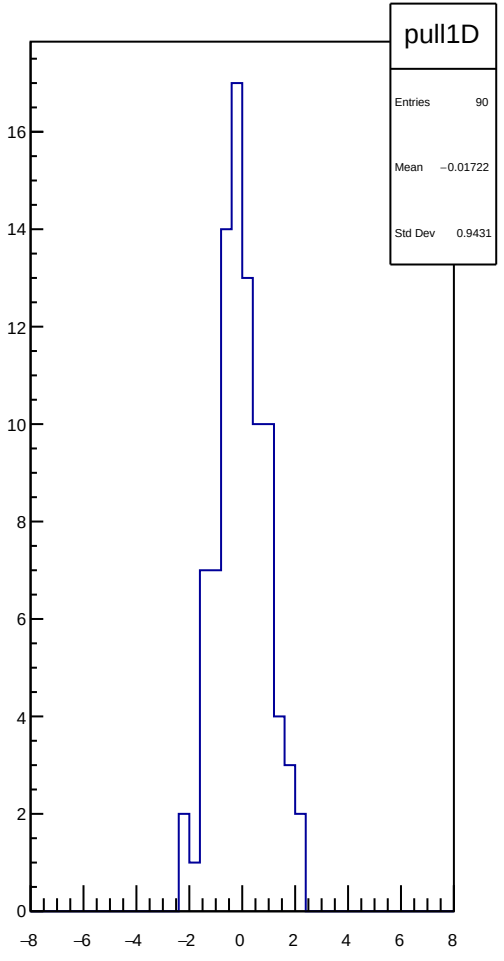

asym_atl2_eigen_cor_correction_rms vs run
χ² / ndf 2825 / 89
p0 8505 ± 6.376
9500
9000
8500
8000
7500

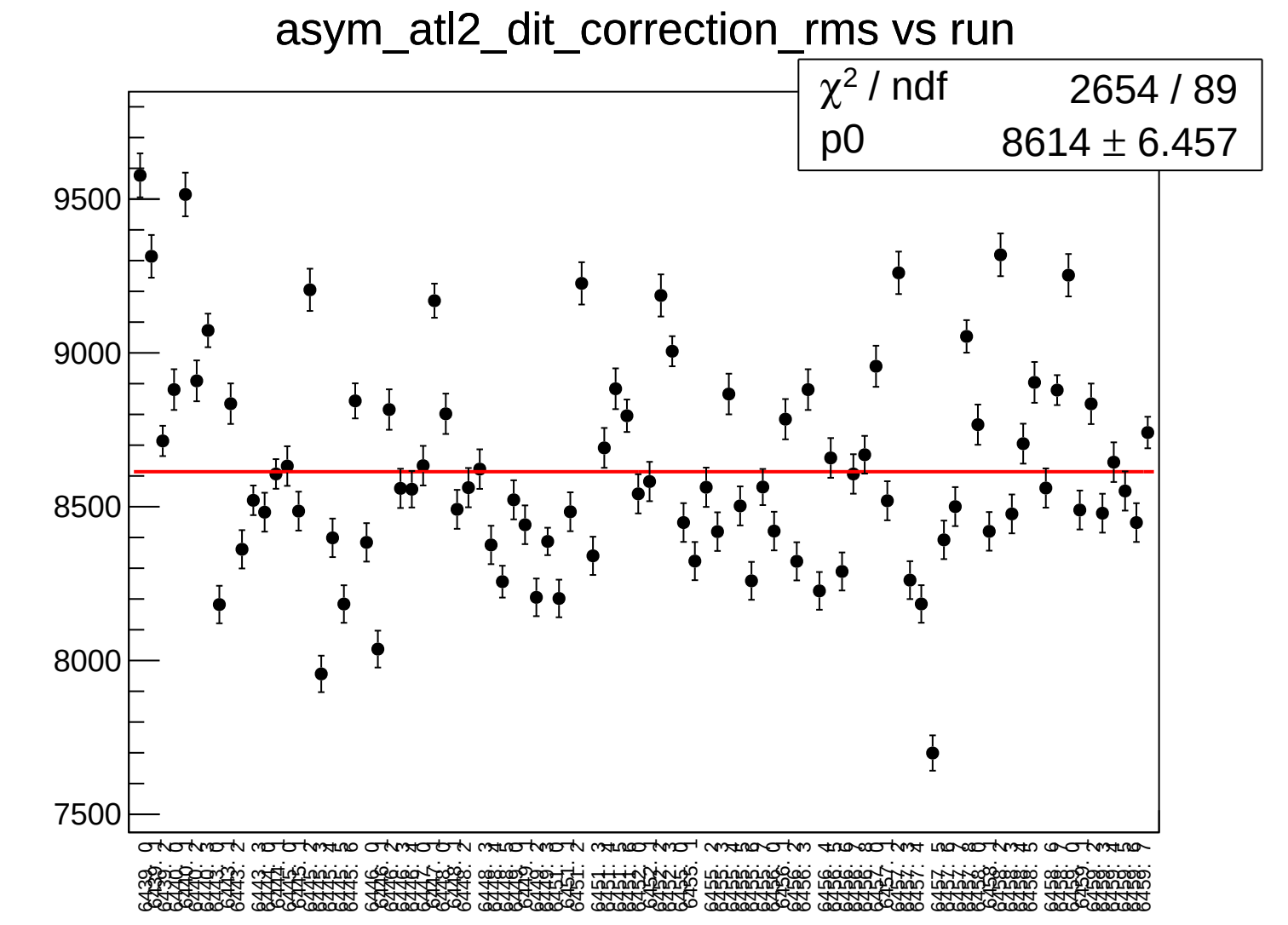

dit_asym_atl2_mean vs run
×10^3
χ² / ndf 93.58 / 89
p0 677.5 ± 2839
100
50
0
−50
−100
pull
Entries 90
Mean −1.125e+04
Std Dev 0
2
1
0
−1
−2

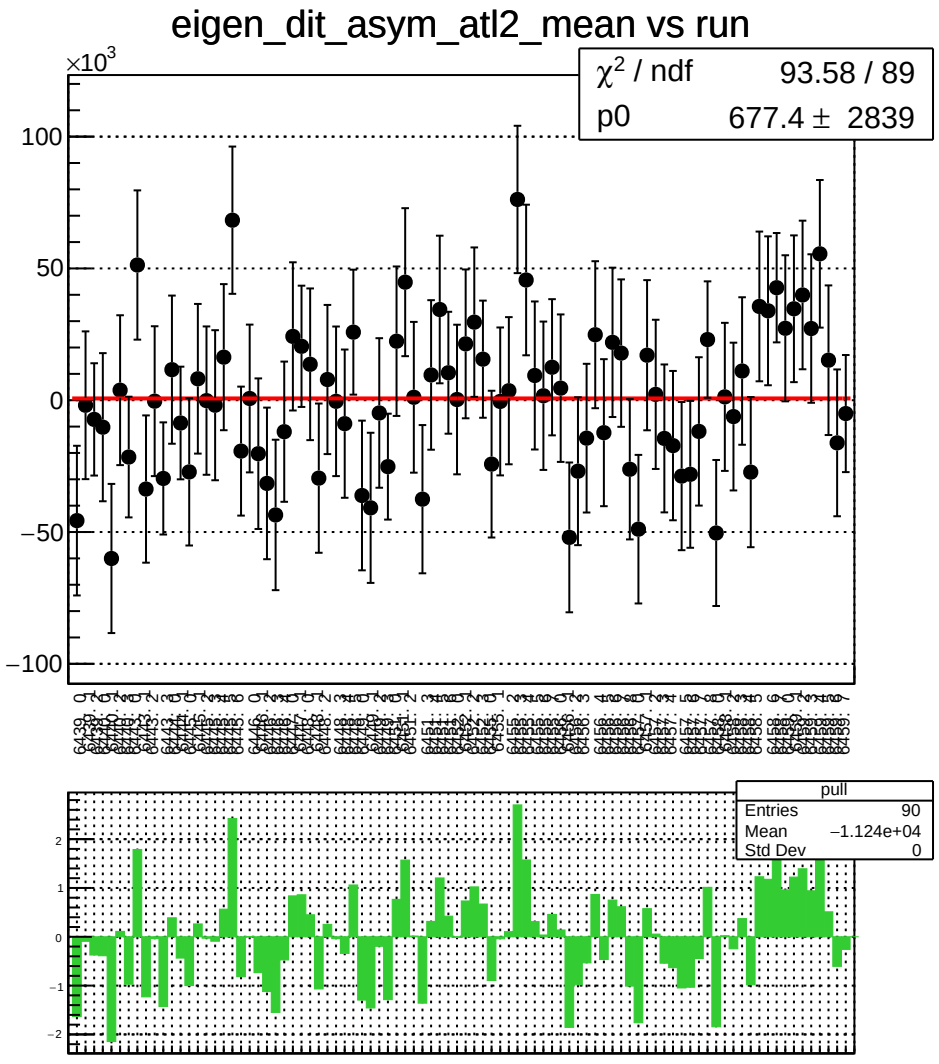

pull1D
Entries 90
Mean −0.000532
Std Dev 1.02
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

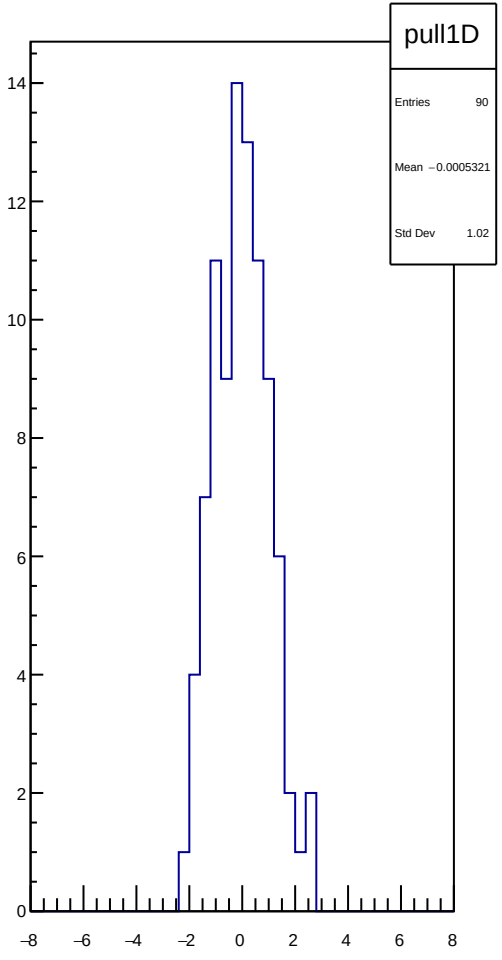

dit_asym_atl2_rms vs run
χ² / ndf 304.6 / 89
p0 2679 ± 2.007
2900
2850
2800
2750
2700
2650
2600

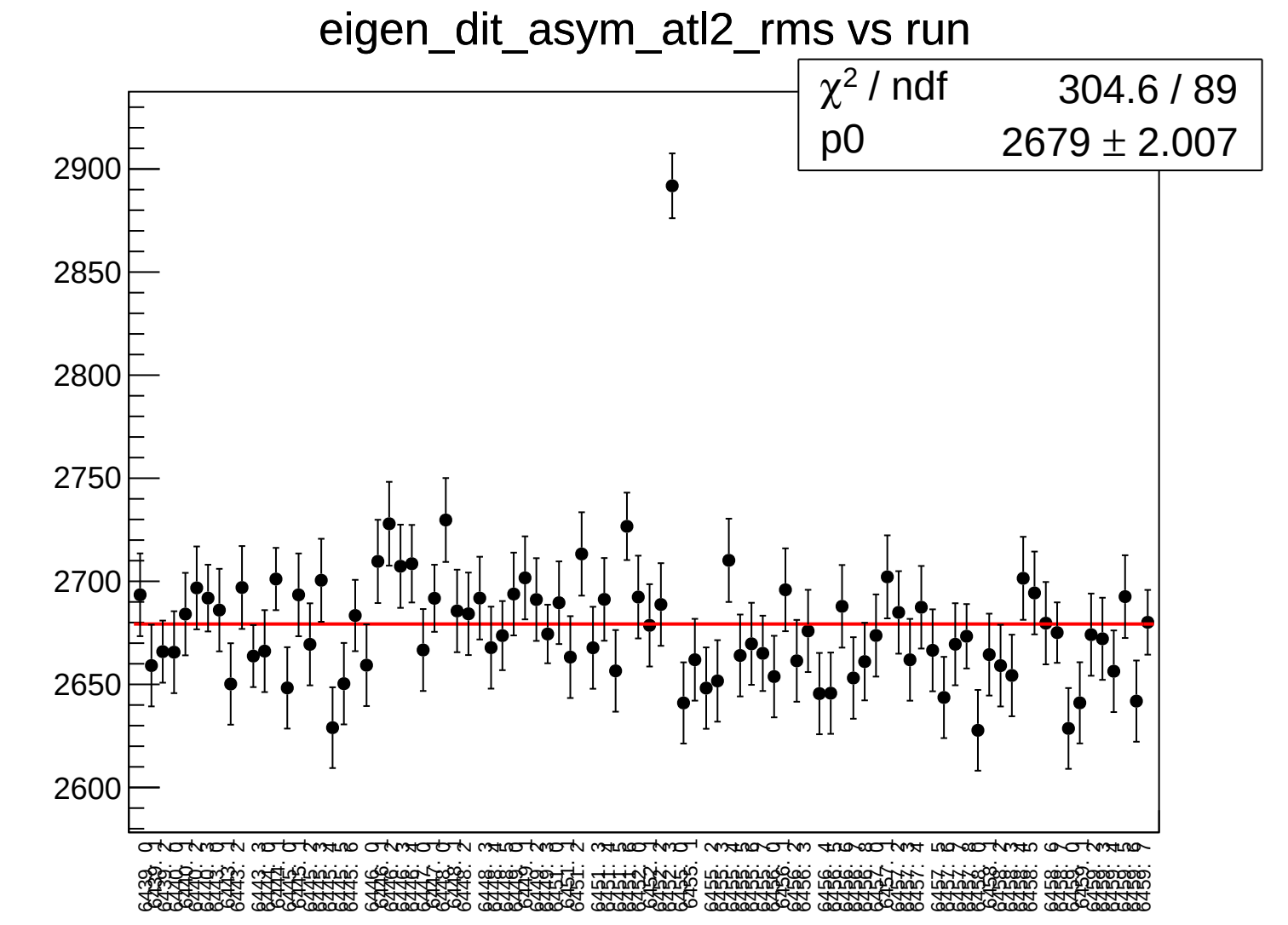

asym_atl2_dit_correction_mean vs run
×10^3
χ² / ndf 80.08 / 89
p0 −1.637e+04 ± 9132
pull
Entries 90
Mean −120.7
Std Dev 0

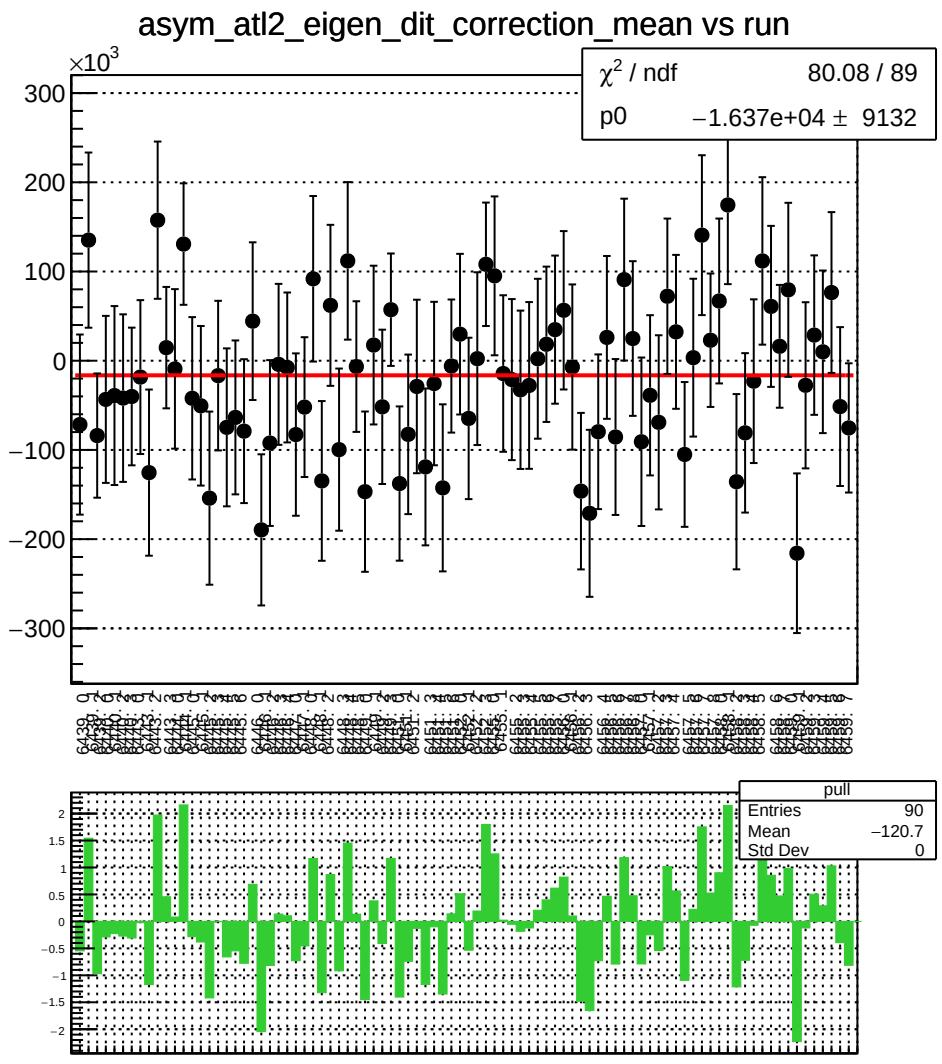

pull1D
Entries 90
Mean −0.01722
Std Dev 0.9431

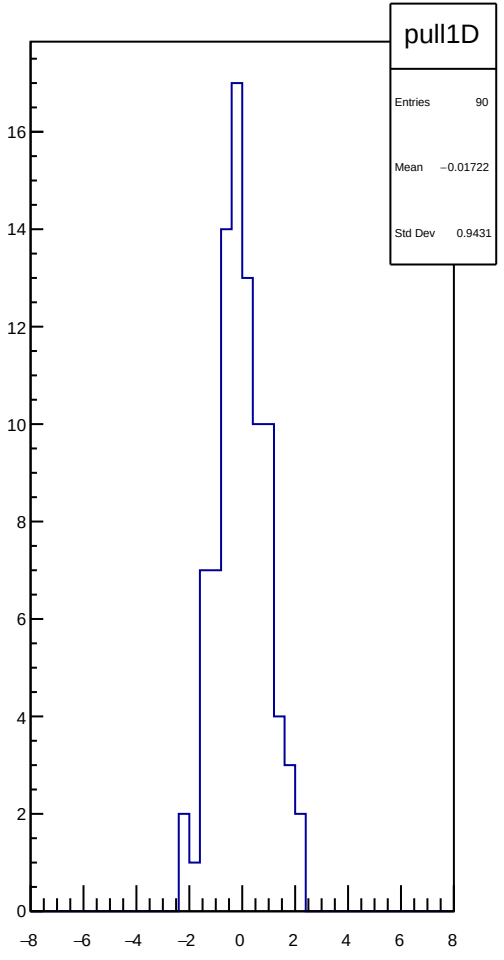

asym_atl2_dit_correction_rms vs run
χ² / ndf 2654 / 89
p0 8614 ± 6.457
9500
9000
8500
8000
7500

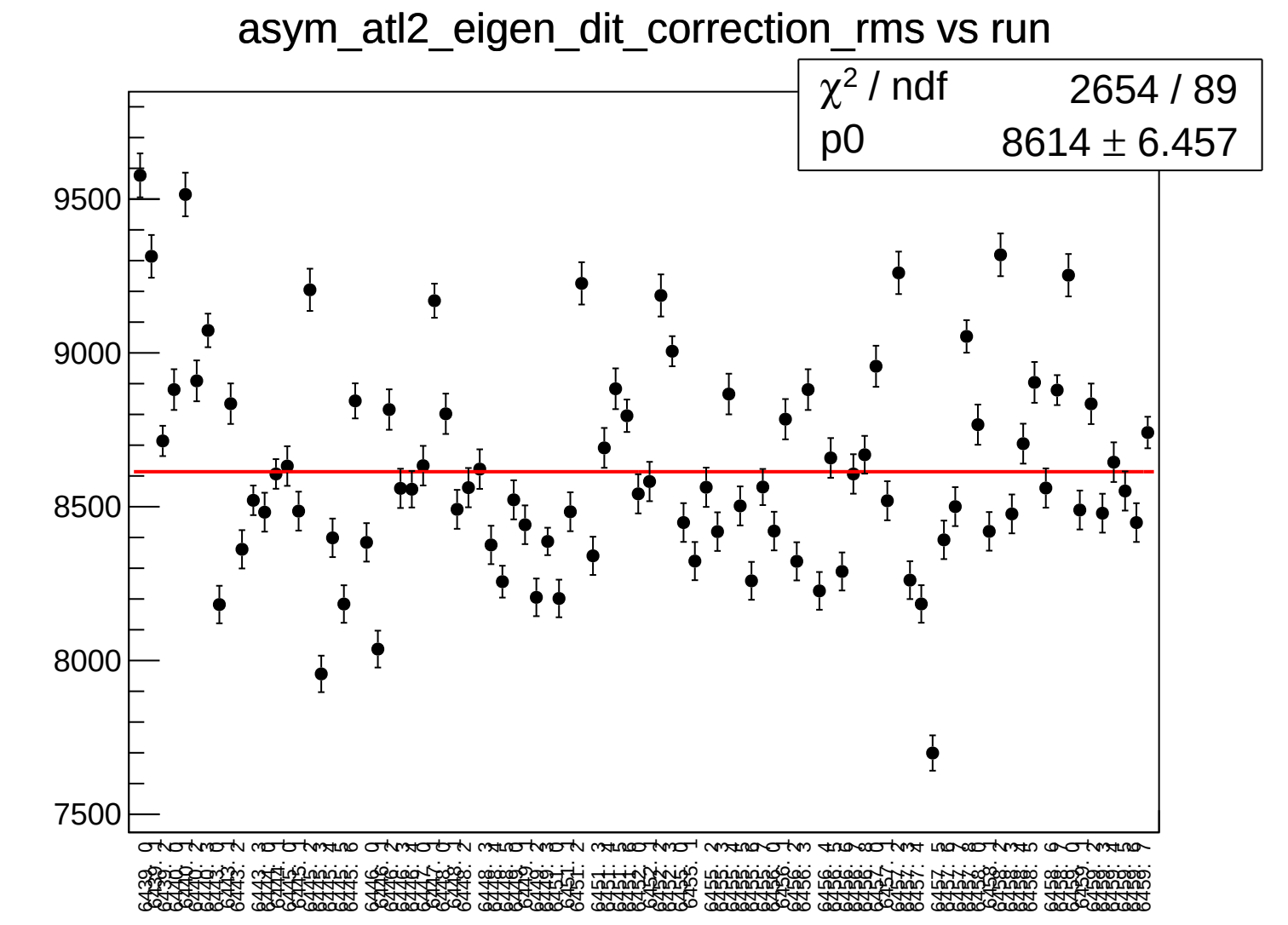

eigen_dit_asym_atl2_mean vs run
×10^3
χ^2 / ndf 93.58 / 89
p0 677.4 ± 2839
100
50
0
−50
−100
pull
Entries 90
Mean −1.124e+04
Std Dev 0
2
1
0
−1
−2

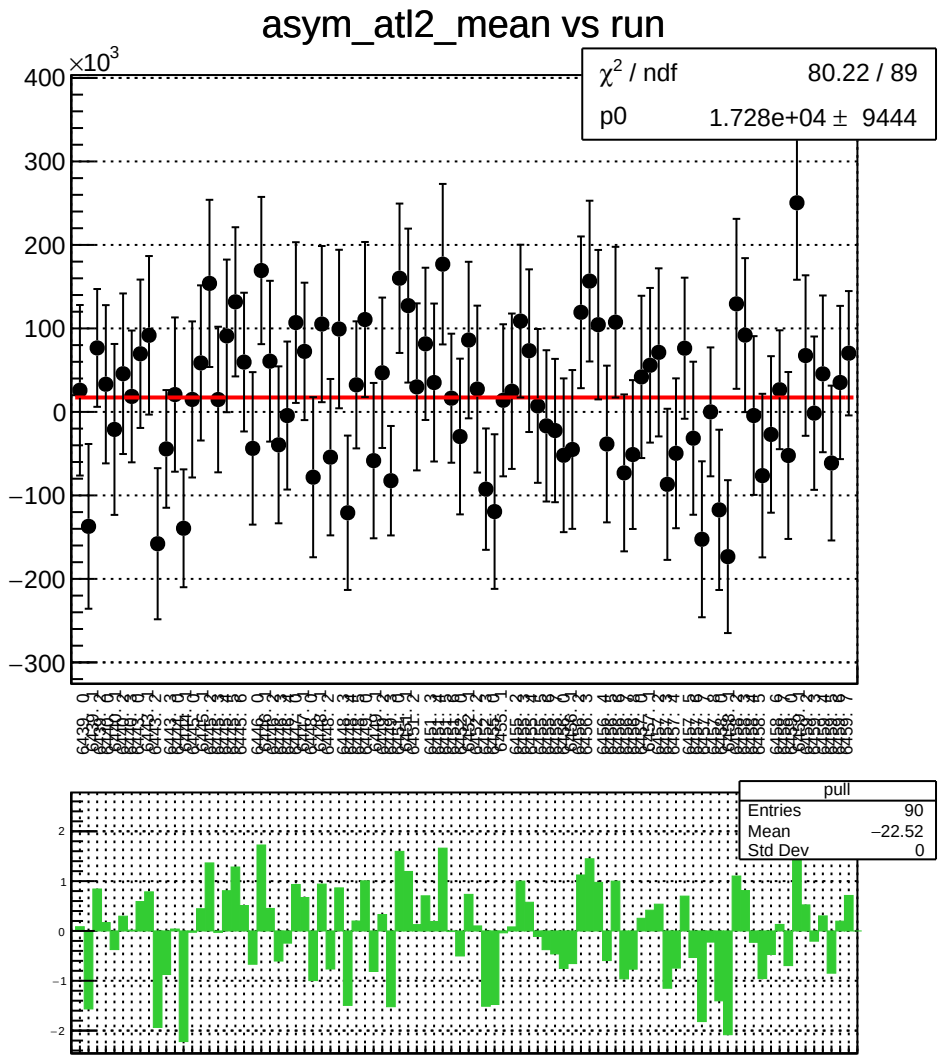

pull1D
Entries 90
Mean −0.0005321
Std Dev 1.02
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

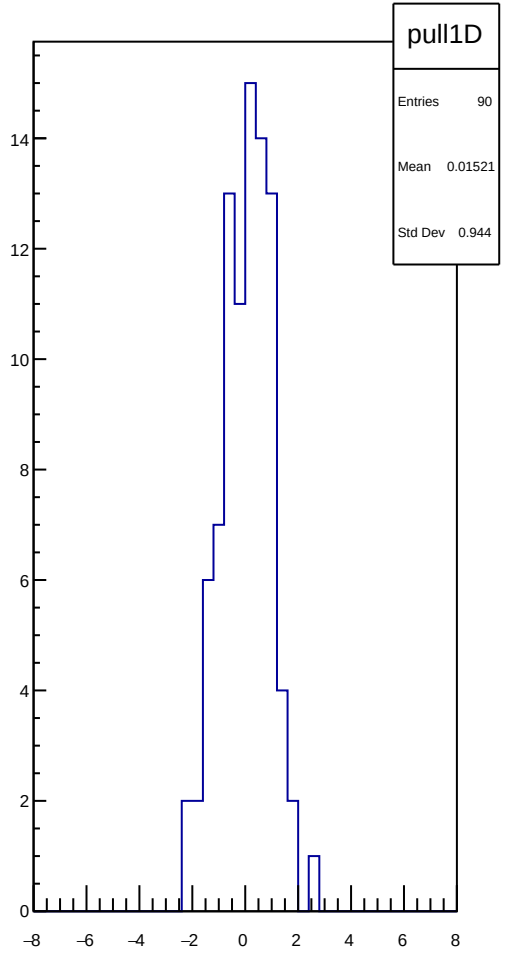

eigen_dit_asym_atl2_rms vs run
χ² / ndf 304.6 / 89
p0 2679 ± 2.007
2900
2850
2800
2750
2700
2650
2600

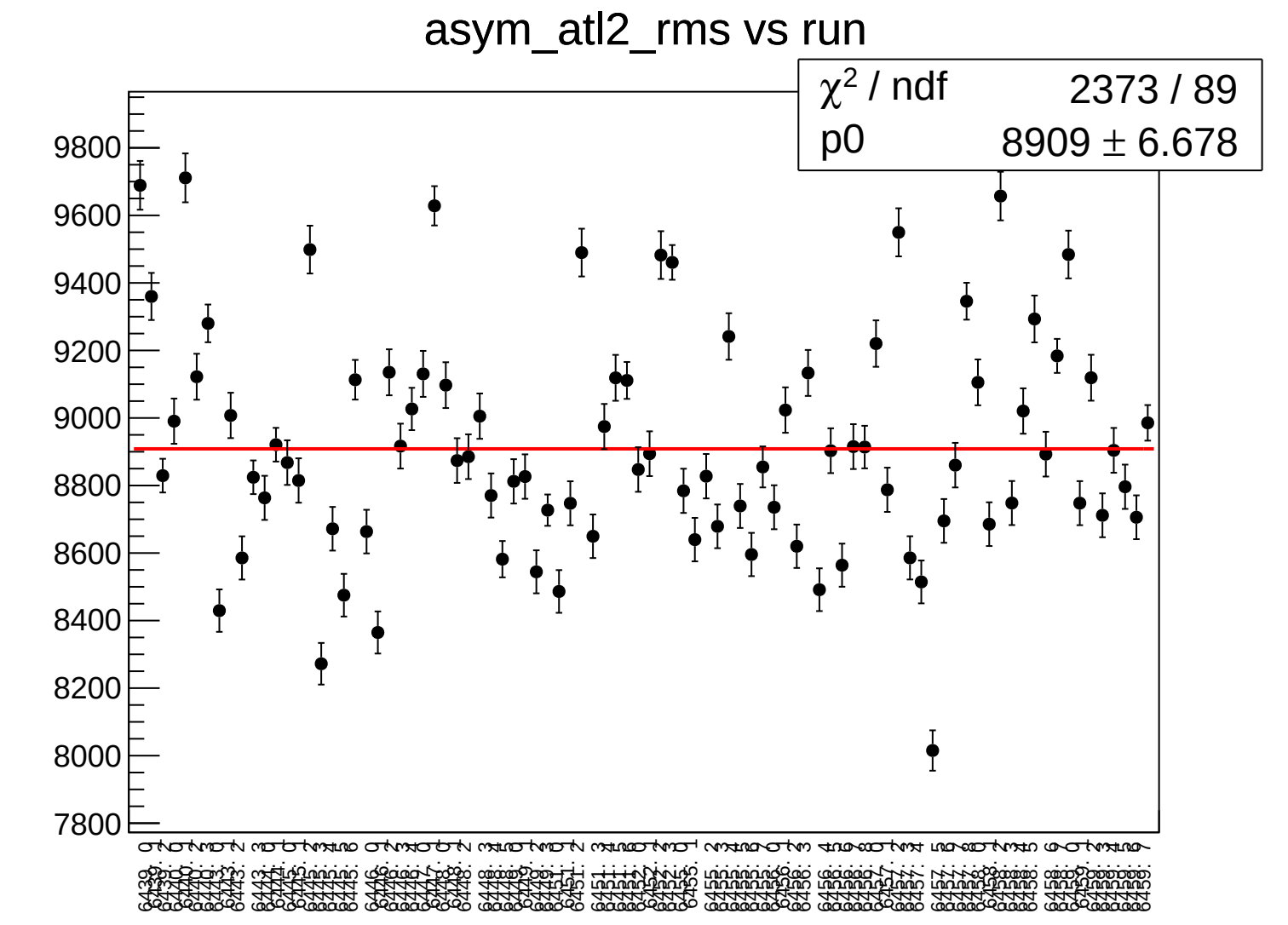

asym_atl2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 80.08 / 89
p0 −1.637e+04 ± 9132
pull
Entries 90
Mean −120.7
Std Dev 0

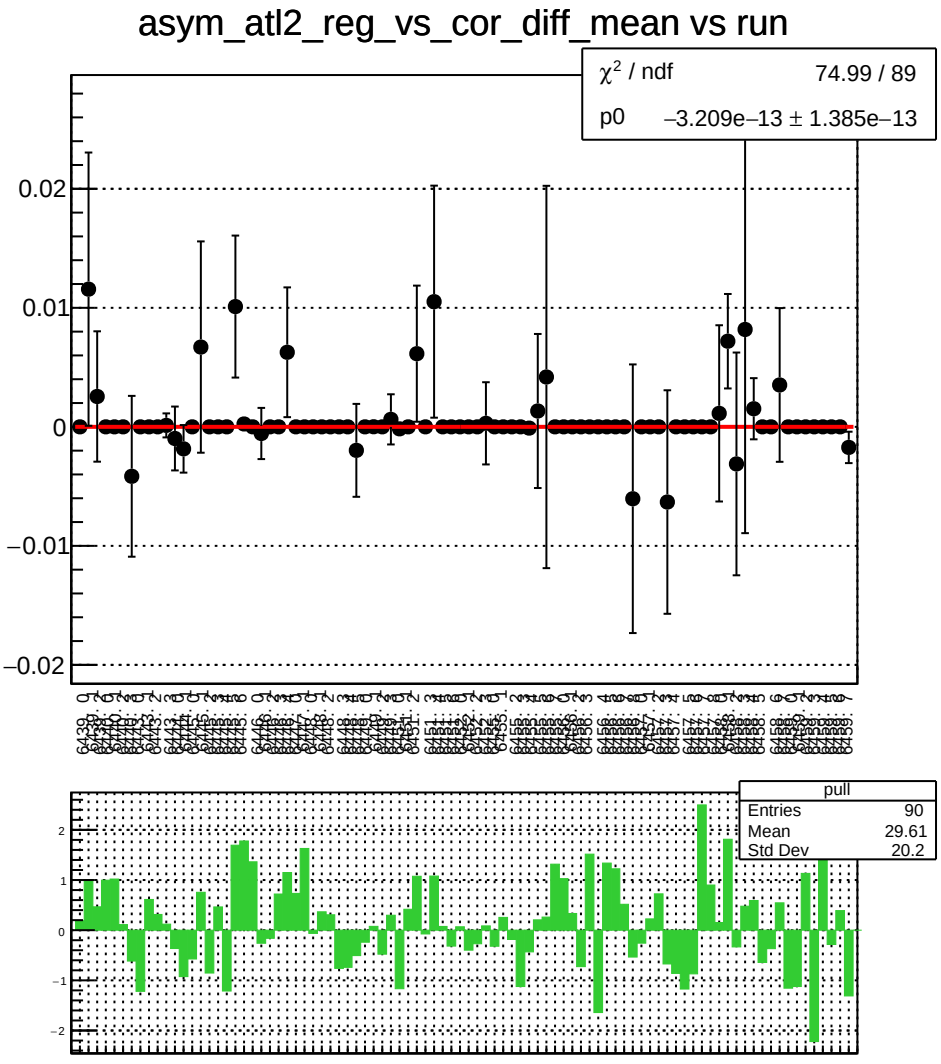

pull1D
Entries 90
Mean −0.01722
Std Dev 0.9431

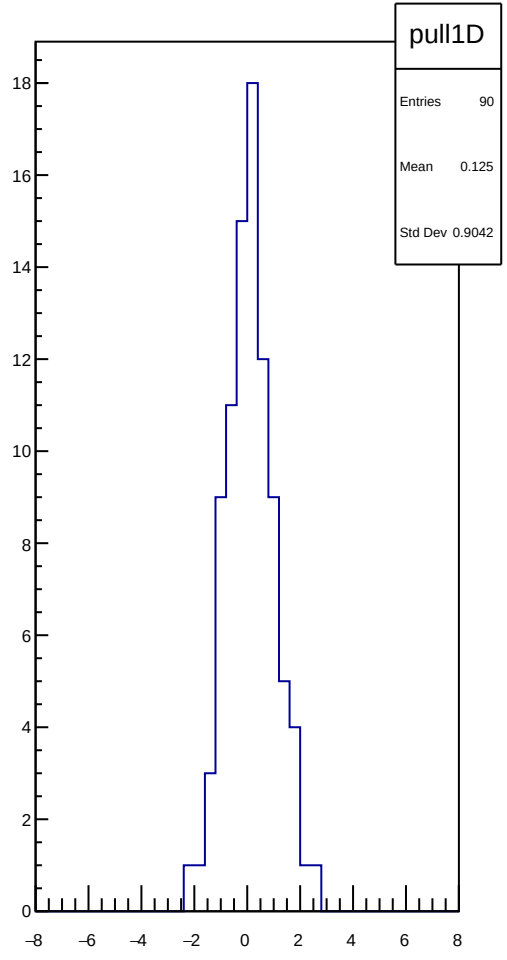

asym_atl2_eigen_dit_correction_rms vs run
χ² / ndf 2654 / 89
p0 8614 ± 6.457
9500
9000
8500
8000
7500

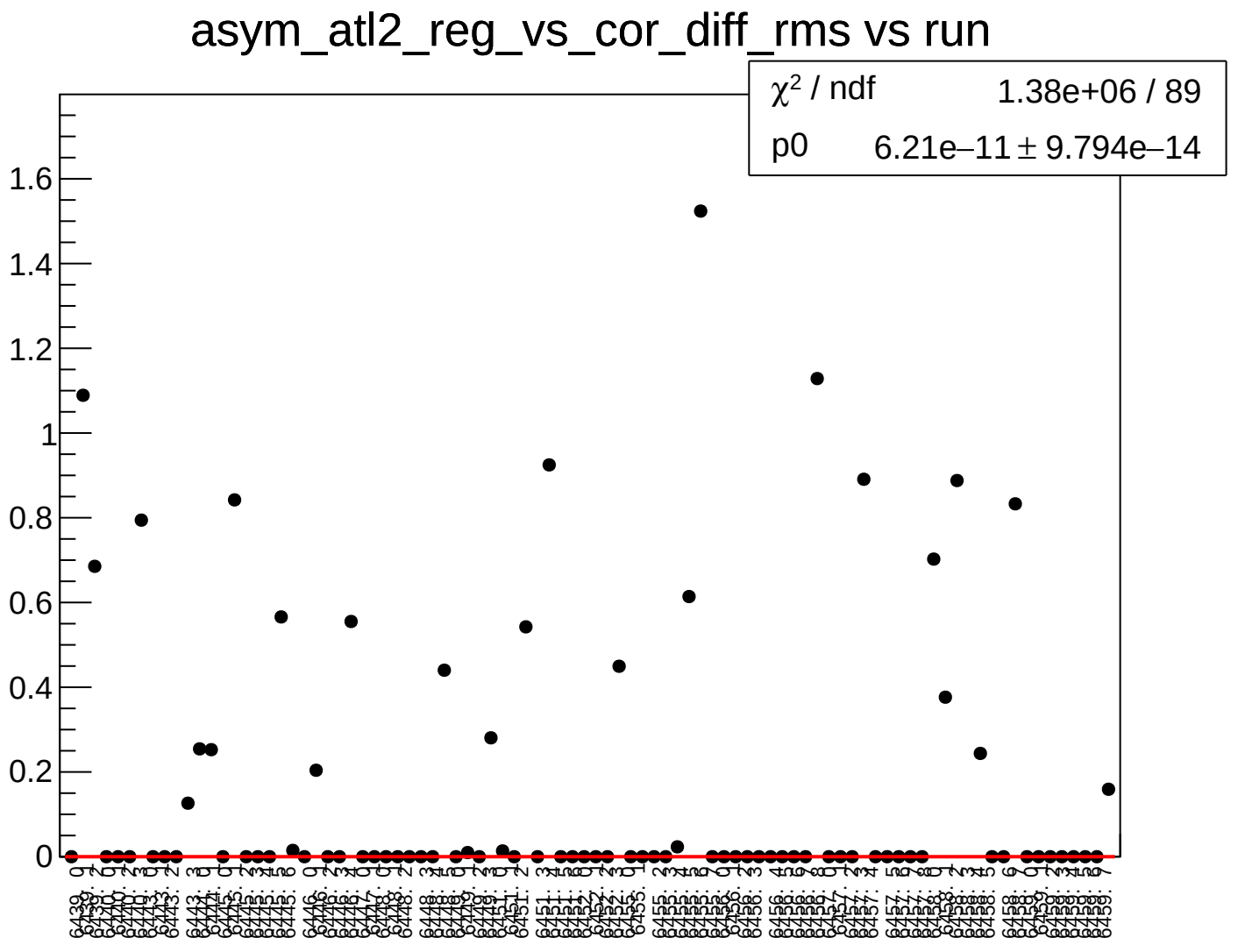

asym_atl2_mean vs run
χ² / ndf 80.22 / 89
p0 1.728e+04 ± 9444
×10³
pull
Entries 90
Mean −22.52
Std Dev 0

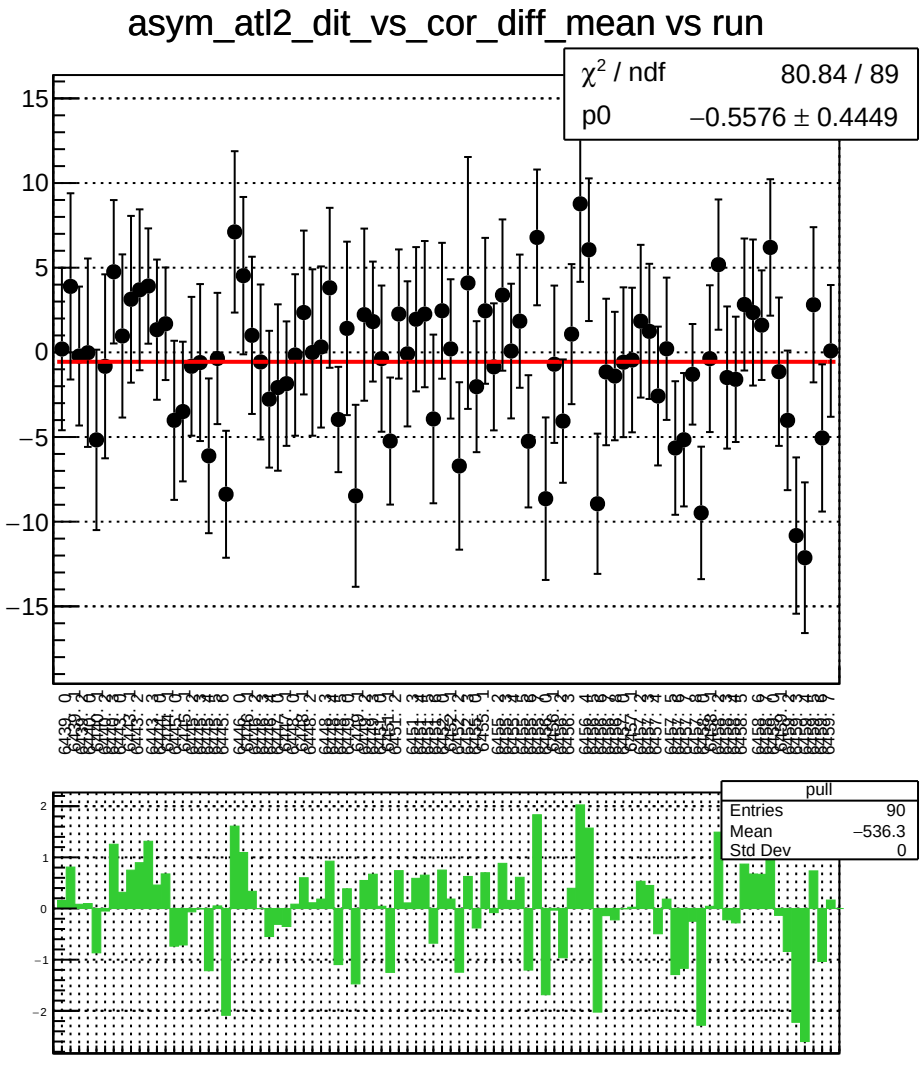

pull1D
Entries 90
Mean 0.01521
Std Dev 0.944

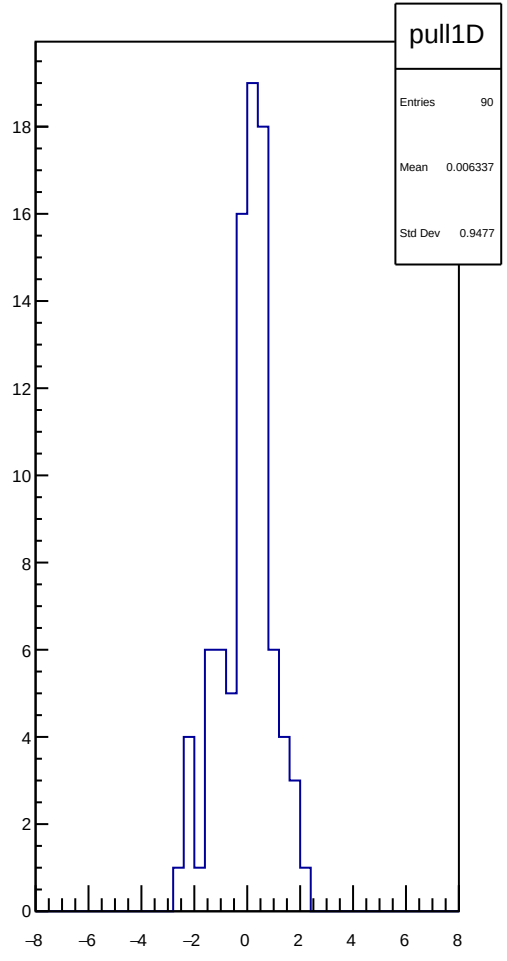

asym_atl2_rms vs run
χ² / ndf 2373 / 89
p0 8909 ± 6.678
9800
9600
9400
9200
9000
8800
8600
8400
8200
8000
7800

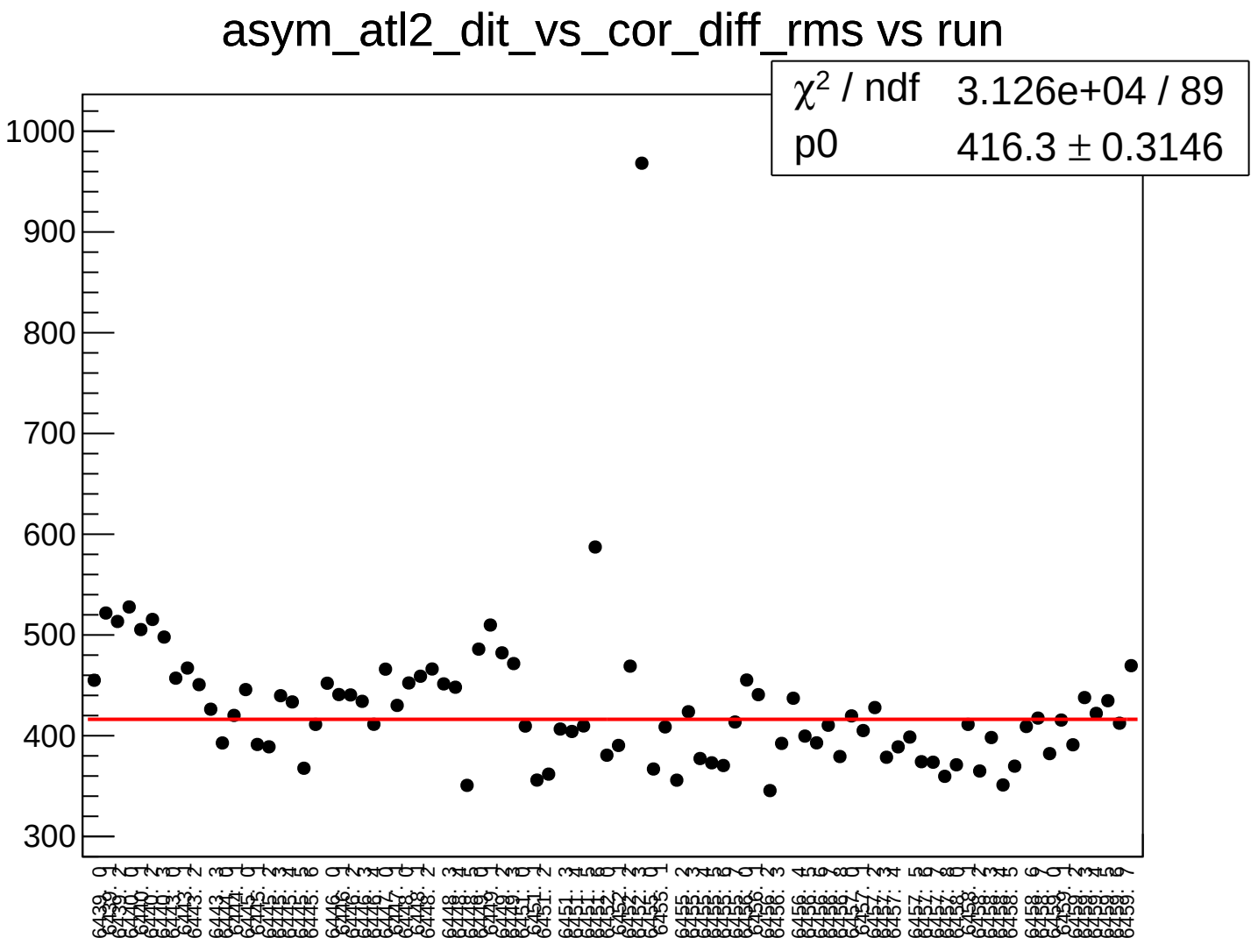

asym_atl2_reg_vs_cor_diff_mean vs run
χ² / ndf 74.99 / 89
p0 −3.209e−13 ± 1.385e−13
0.02
0.01
0
−0.01
−0.02
pull
Entries 90
Mean 29.61
Std Dev 20.2
2
1
0
−1
−2

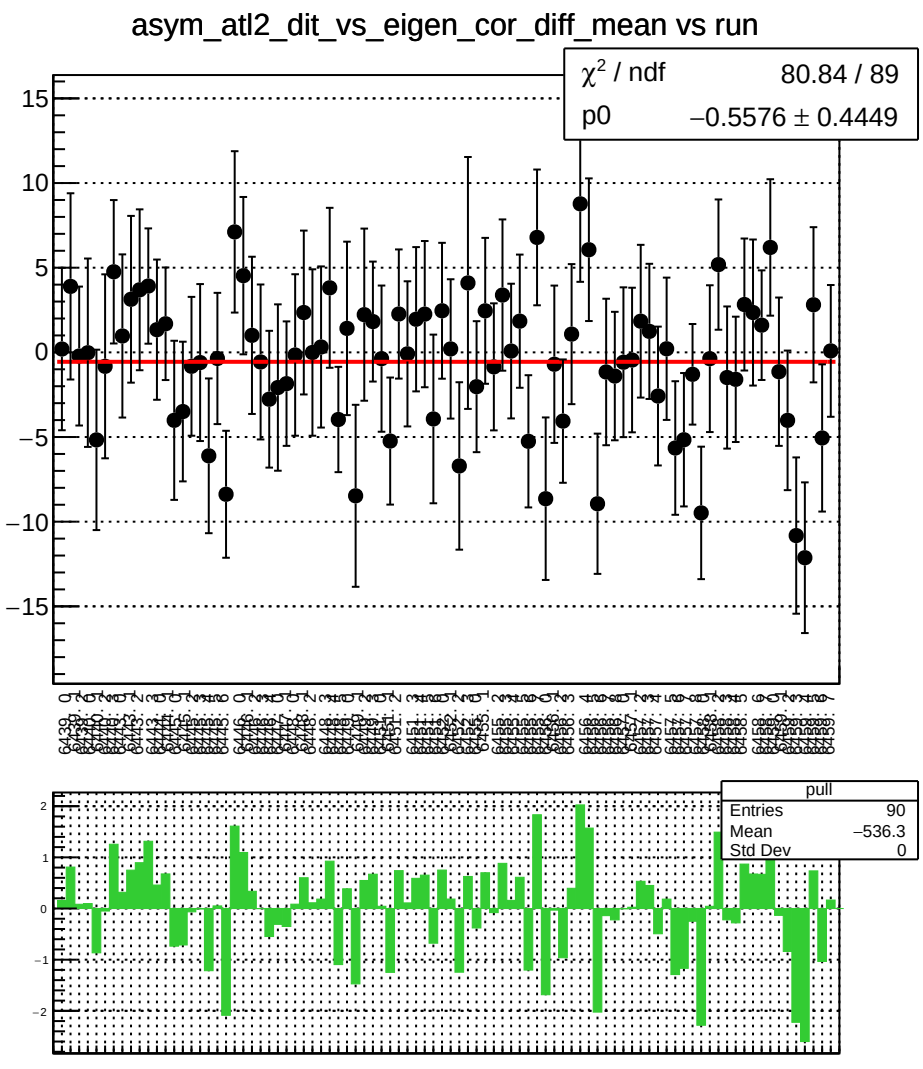

pull1D
Entries 90
Mean 0.125
Std Dev 0.9042
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

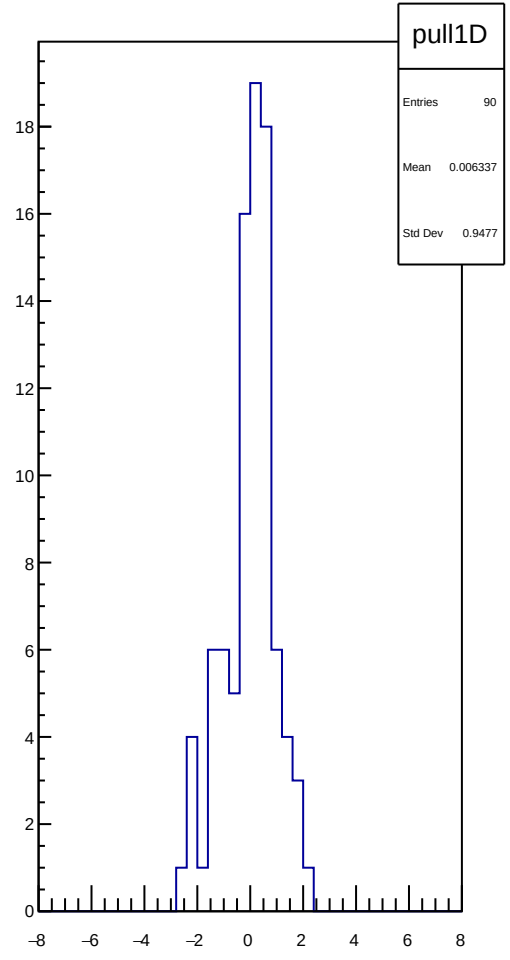

asym_atl2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.38e+06 / 89
p0 6.21e−11 ± 9.794e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

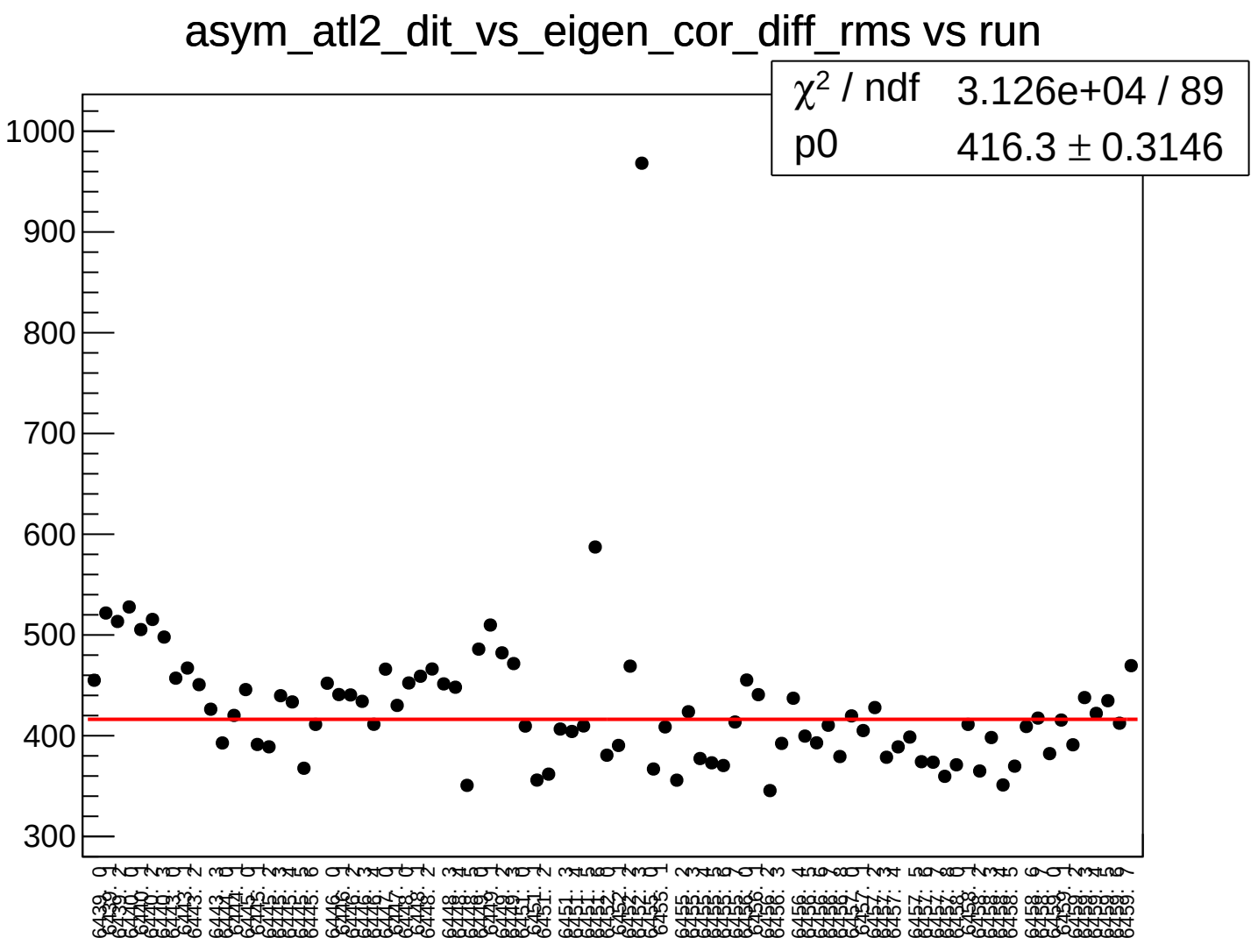

asym_atl2_dit_vs_cor_diff_mean vs run
χ² / ndf 80.84 / 89
p0 −0.5576 ± 0.4449
pull
Entries 90
Mean −536.3
Std Dev 0

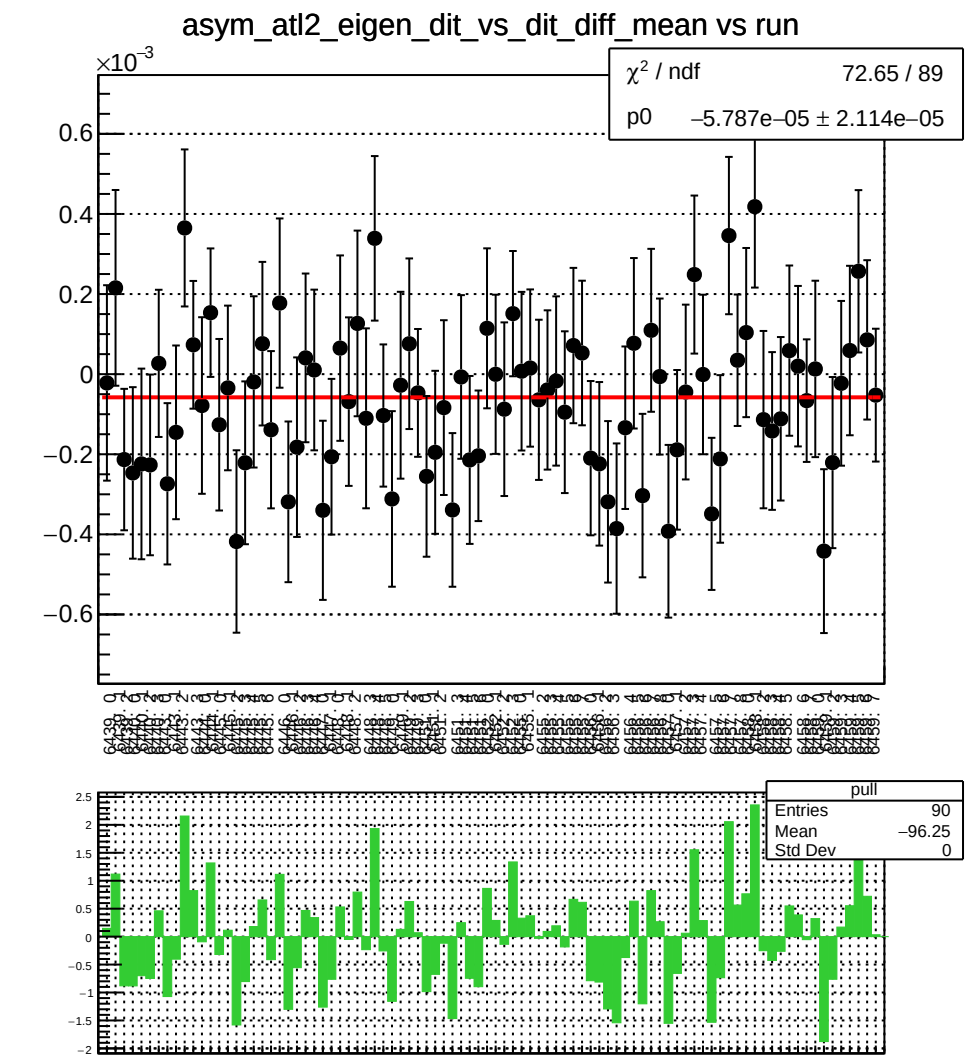

pull1D
Entries 90
Mean 0.006337
Std Dev 0.9477

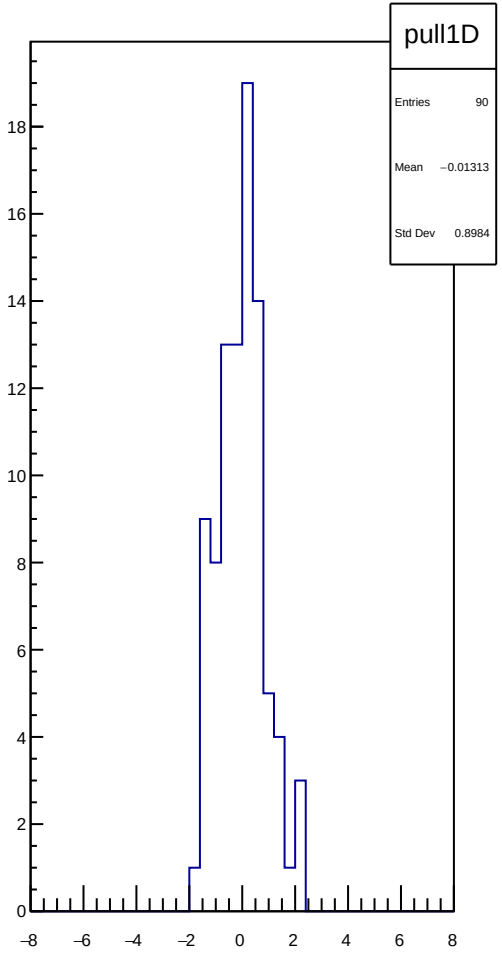

asym_atl2_dit_vs_cor_diff_rms vs run
χ² / ndf 3.126e+04 / 89
p0 416.3 ± 0.3146
1000
900
800
700
600
500
400
300

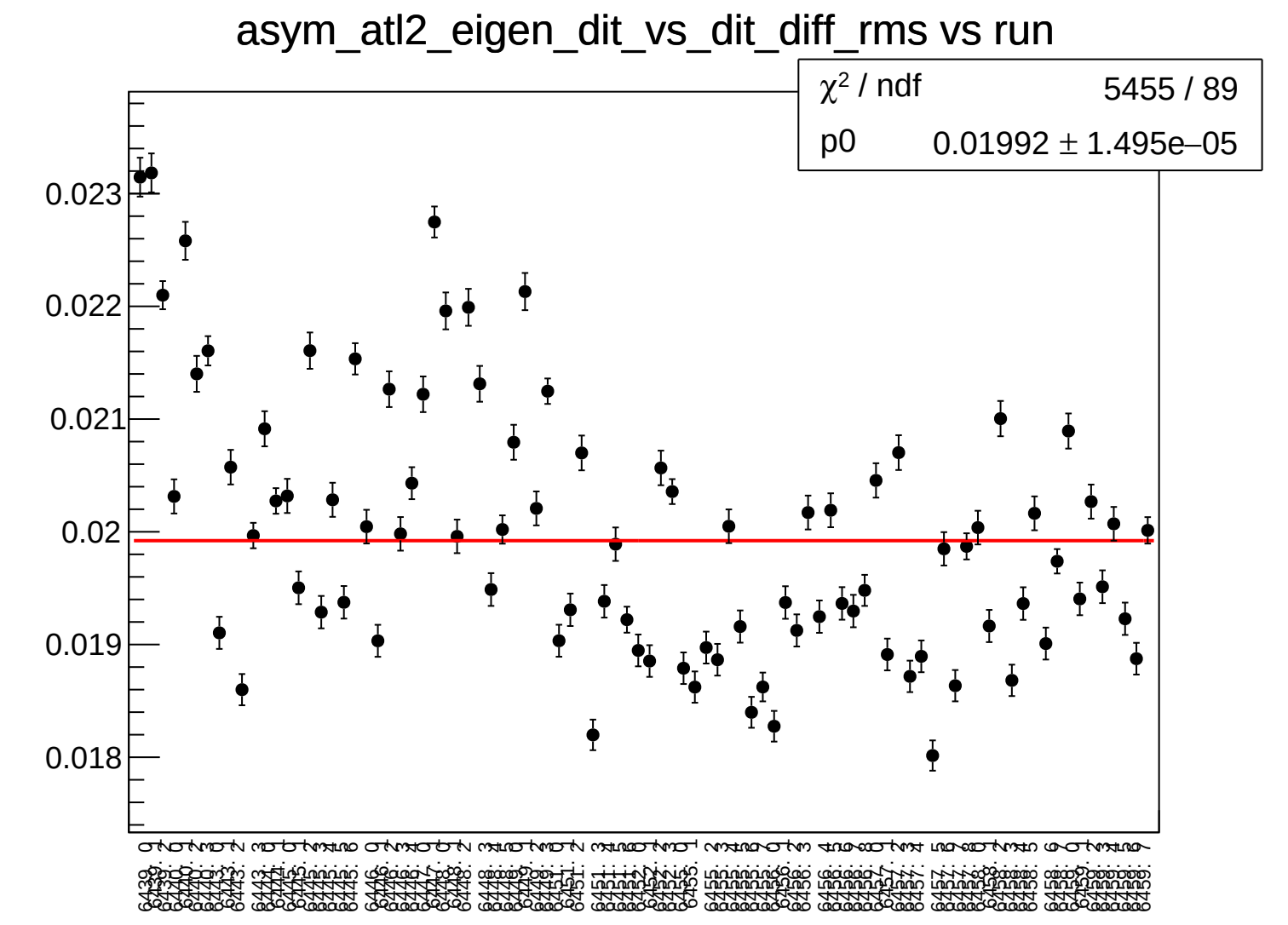

asym_atl2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.84 / 89
p0 −0.5576 ± 0.4449
pull
Entries 90
Mean −536.3
Std Dev 0

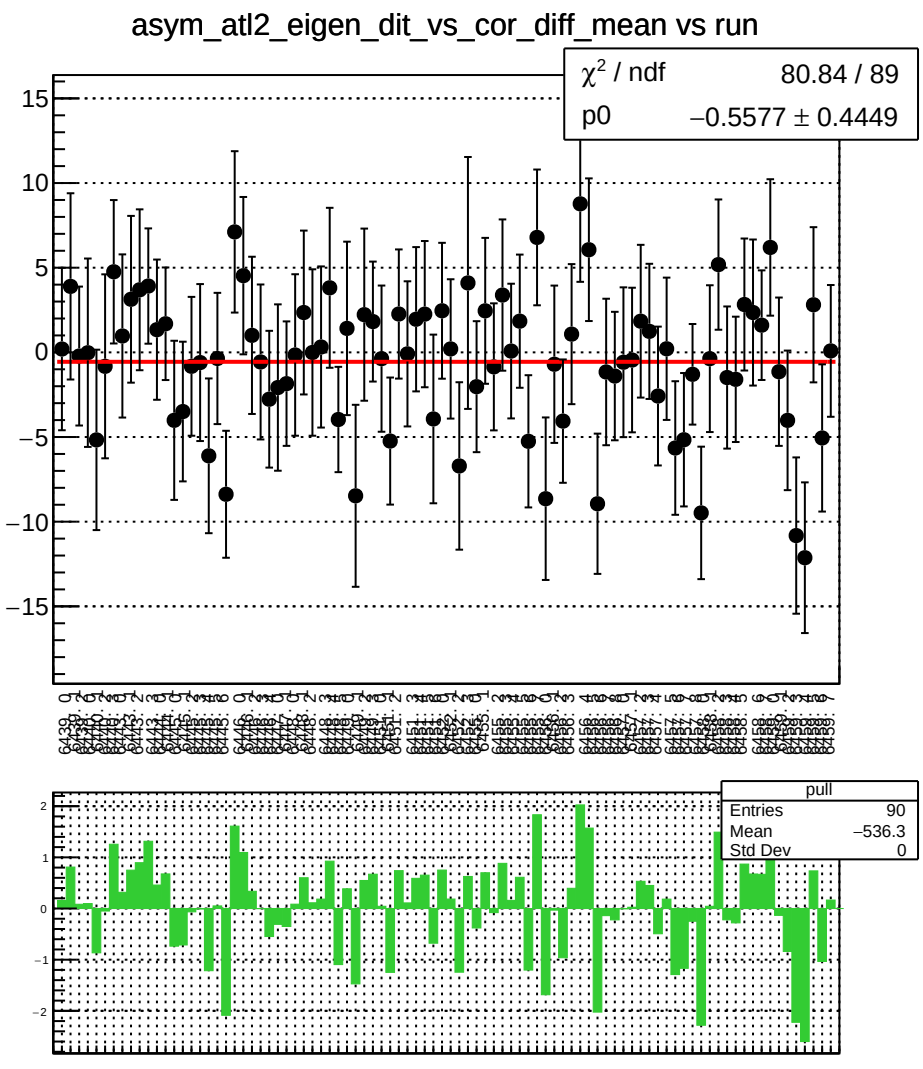

pull1D
Entries 90
Mean 0.006337
Std Dev 0.9477

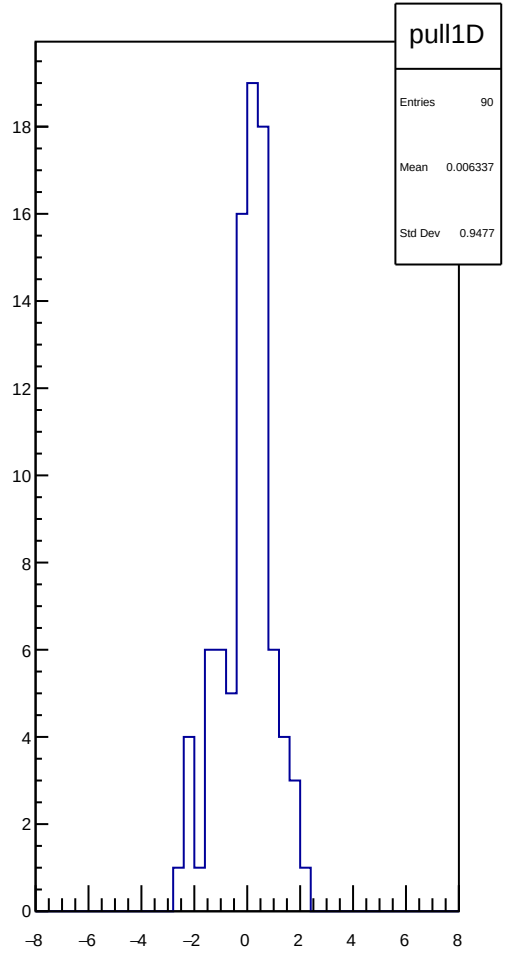

asym_atl2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.126e+04 / 89
p0 416.3 ± 0.3146
1000
900
800
700
600
500
400
300

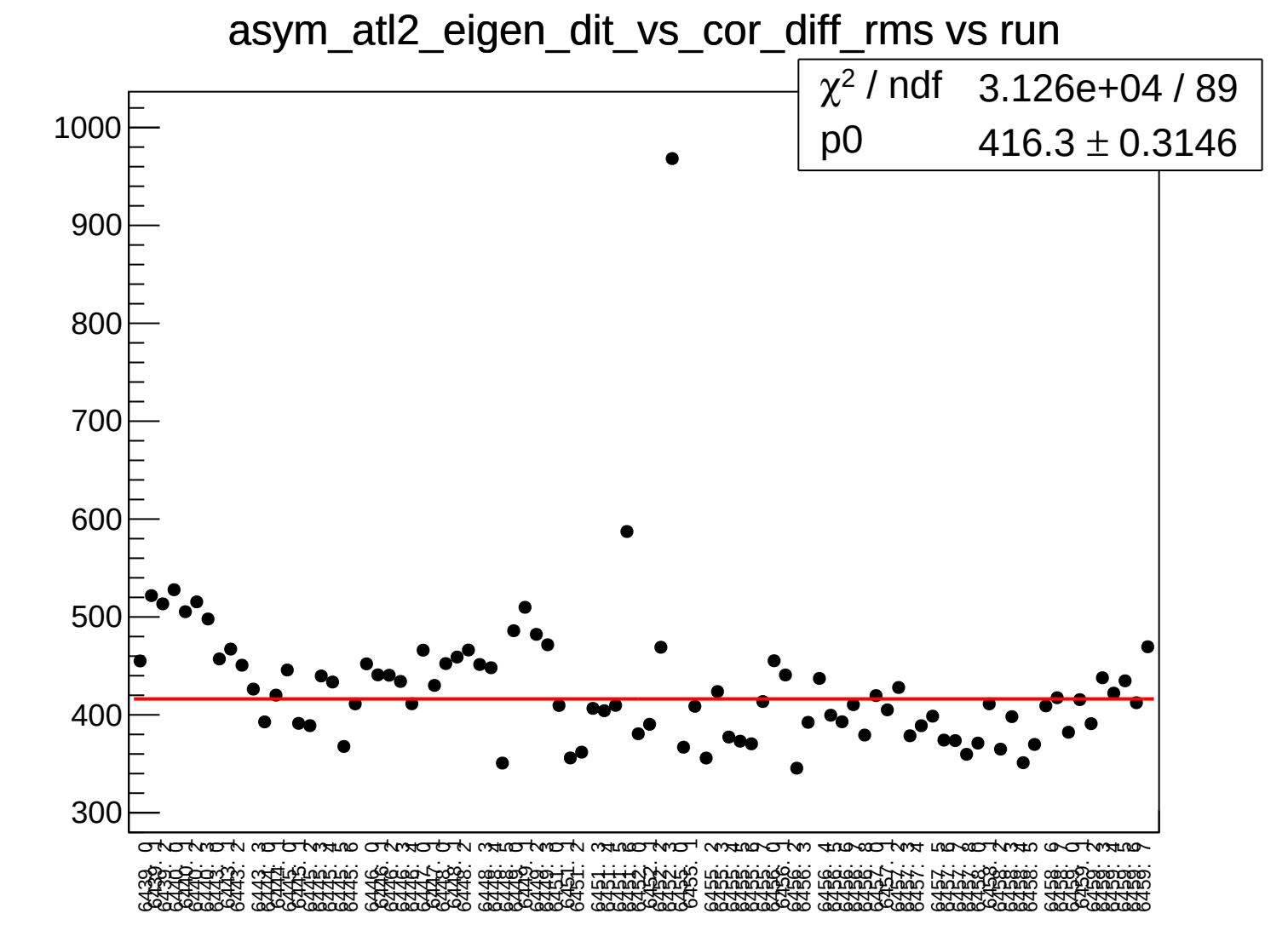

asym_atl2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 72.65 / 89
p0 −5.787e−05 ± 2.114e−05
pull
Entries 90
Mean −96.25
Std Dev 0

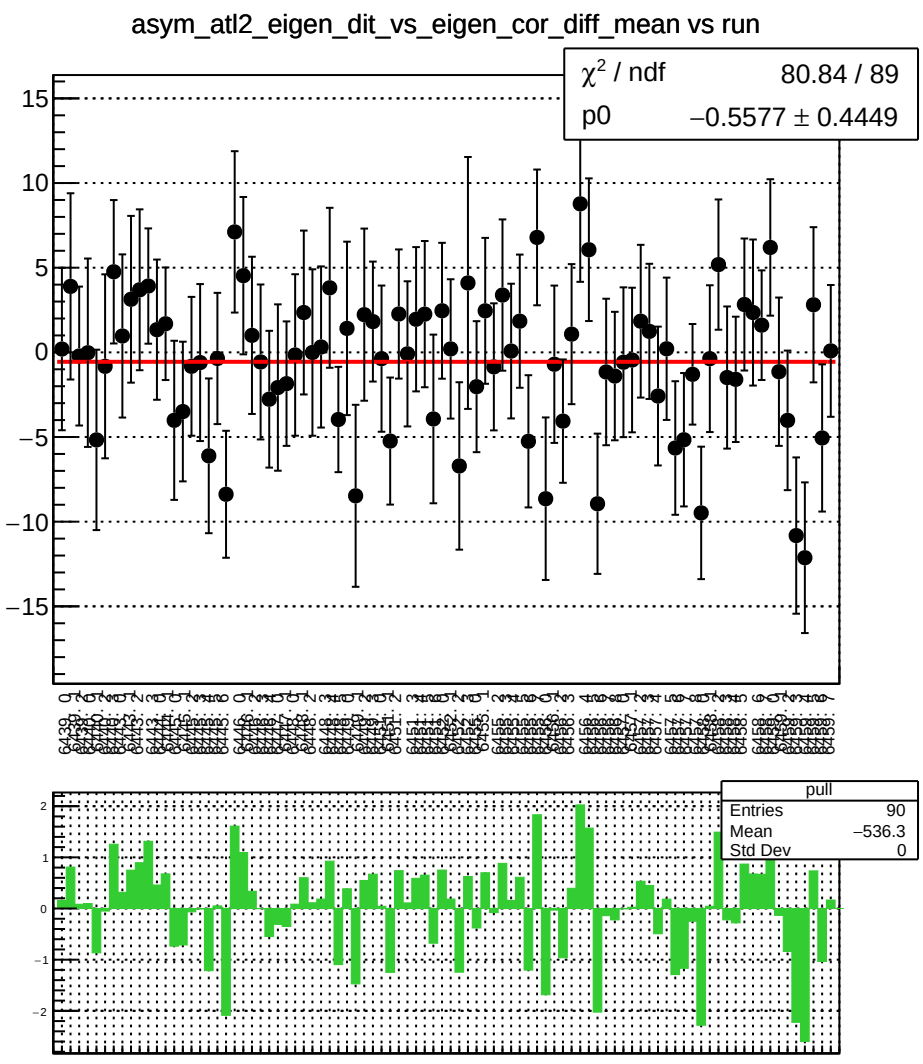

pull1D
Entries 90
Mean −0.01313
Std Dev 0.8984

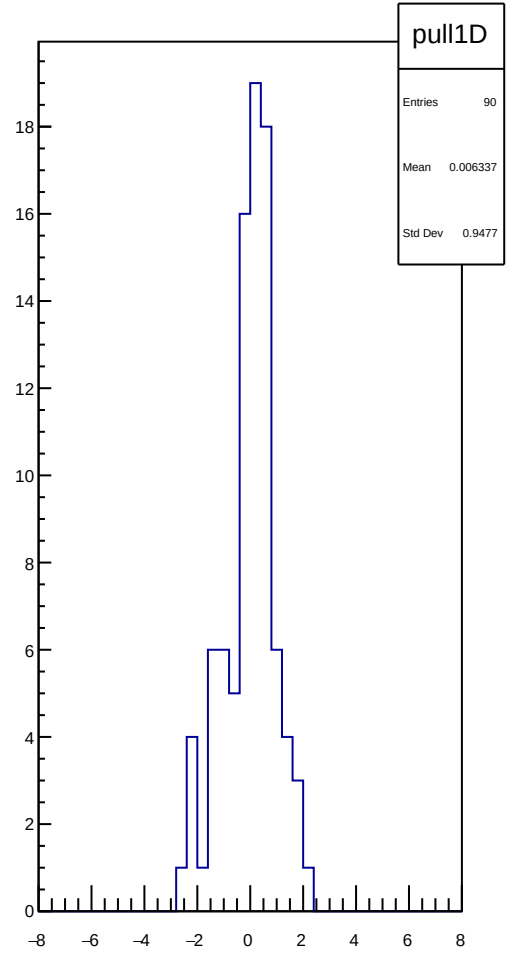

asym_atl2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5455 / 89
p0 0.01992 ± 1.495e−05
0.023
0.022
0.021
0.02
0.019
0.018

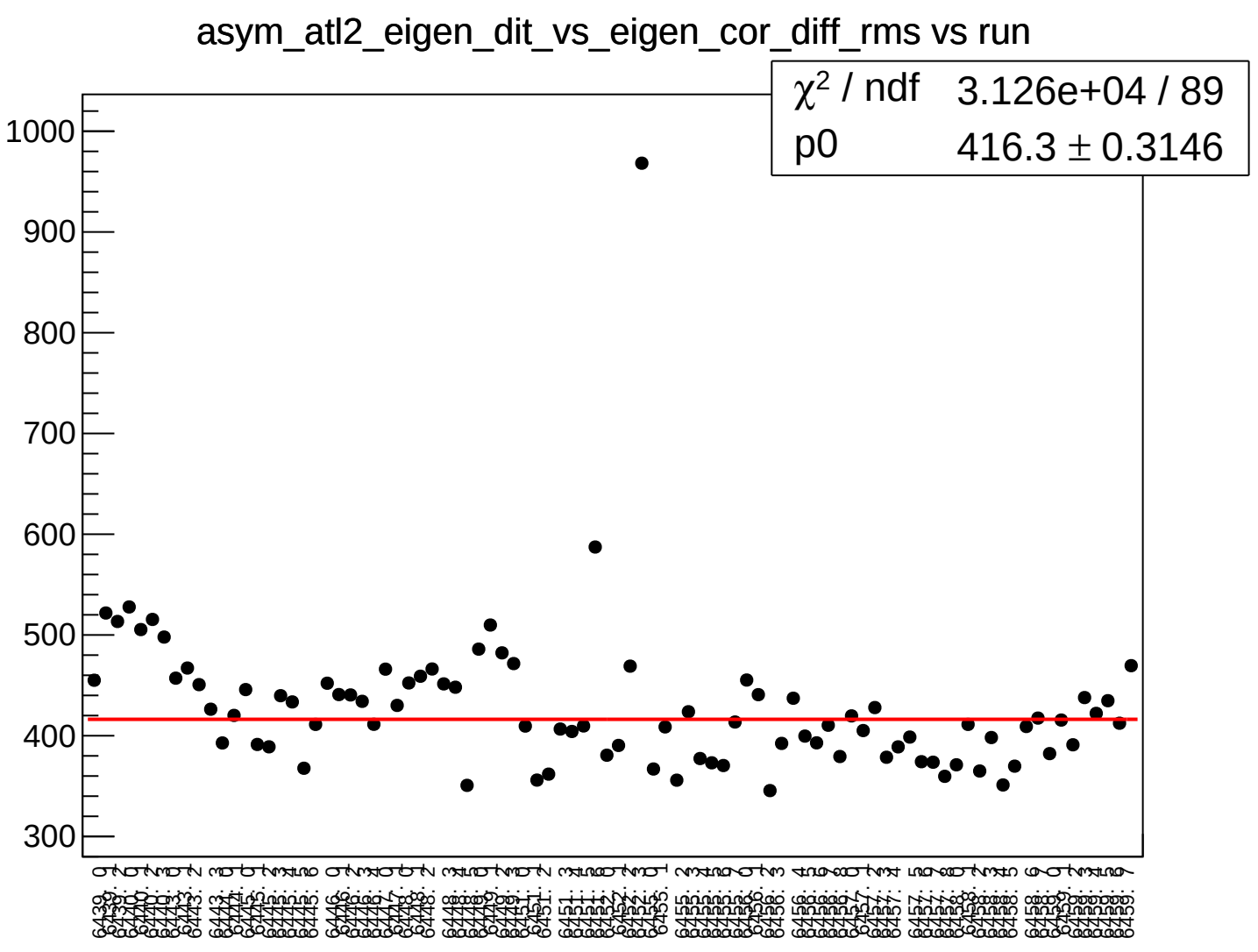

asym_atl2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.84 / 89
p0 −0.5577 ± 0.4449
pull
Entries 90
Mean −536.3
Std Dev 0

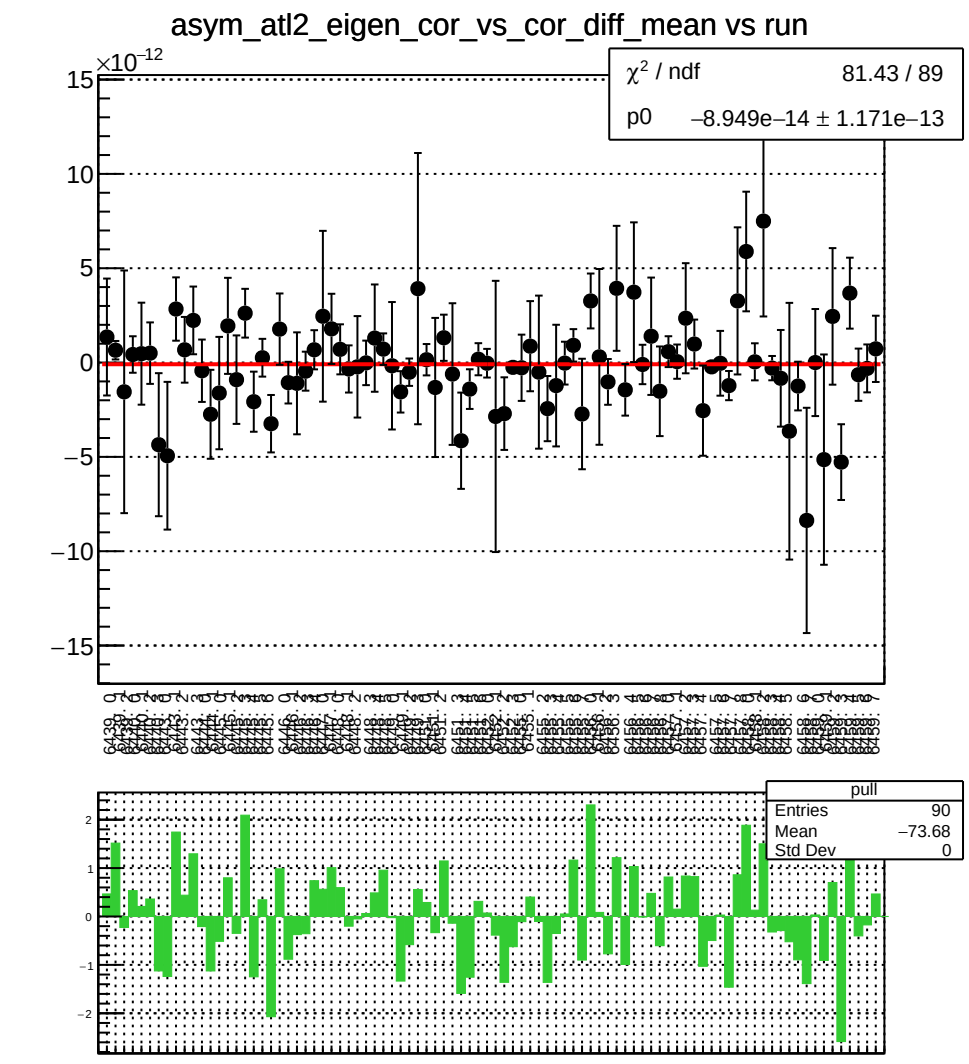

pull1D
Entries 90
Mean 0.006337
Std Dev 0.9477

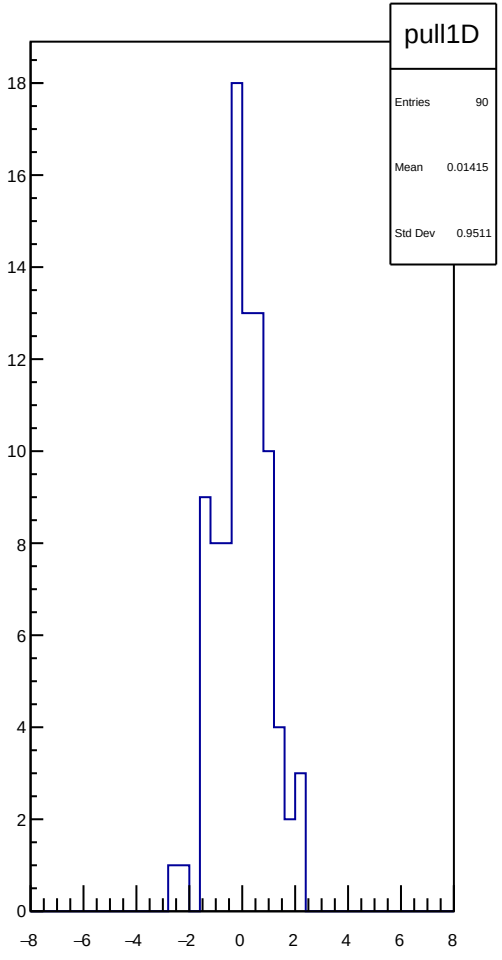

asym_atl2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.126e+04 / 89
p0 416.3 ± 0.3146
1000
900
800
700
600
500
400
300

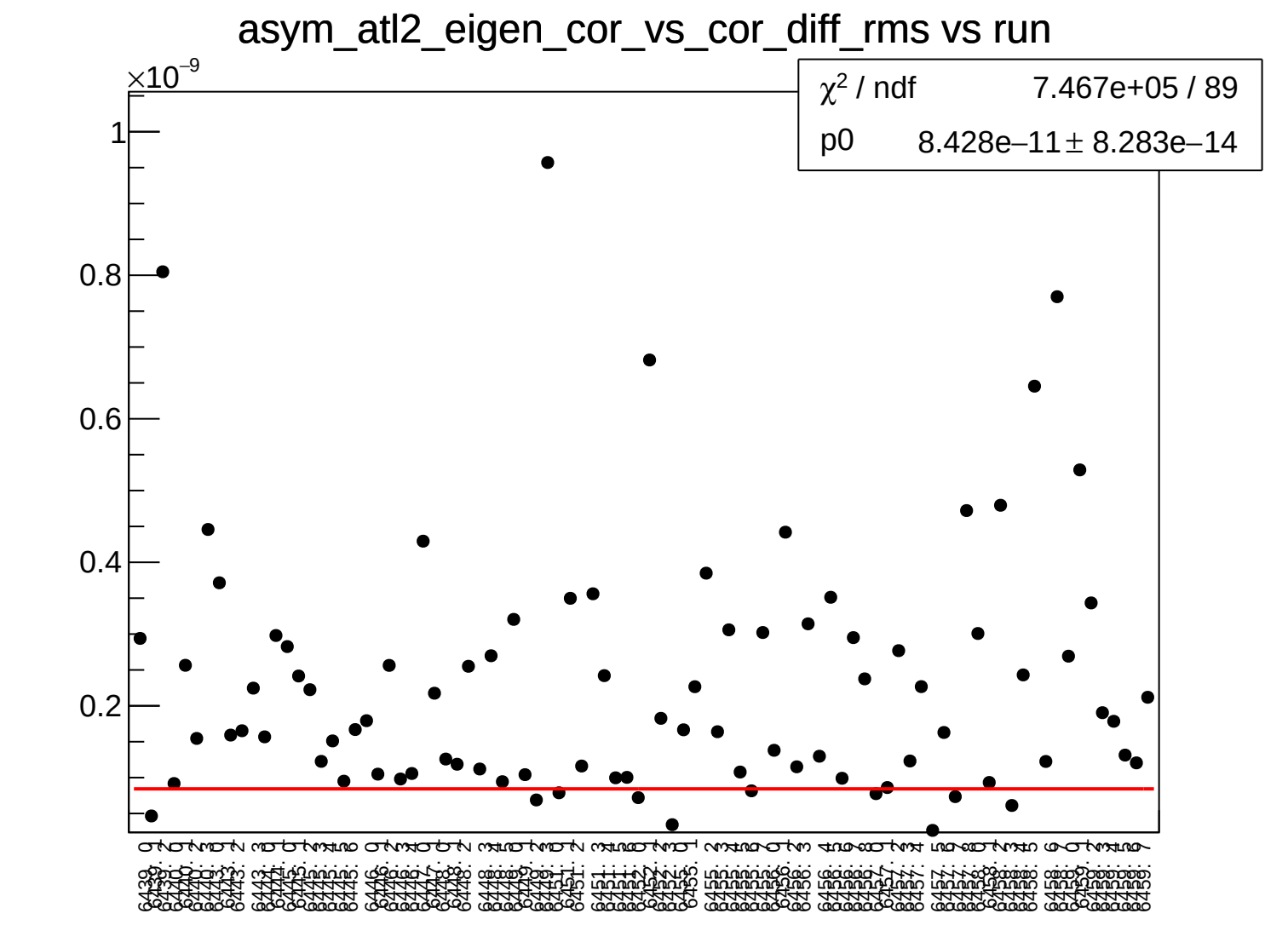

asym_atl2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.84 / 89
p0 −0.5577 ± 0.4449
pull
Entries 90
Mean −536.3
Std Dev 0

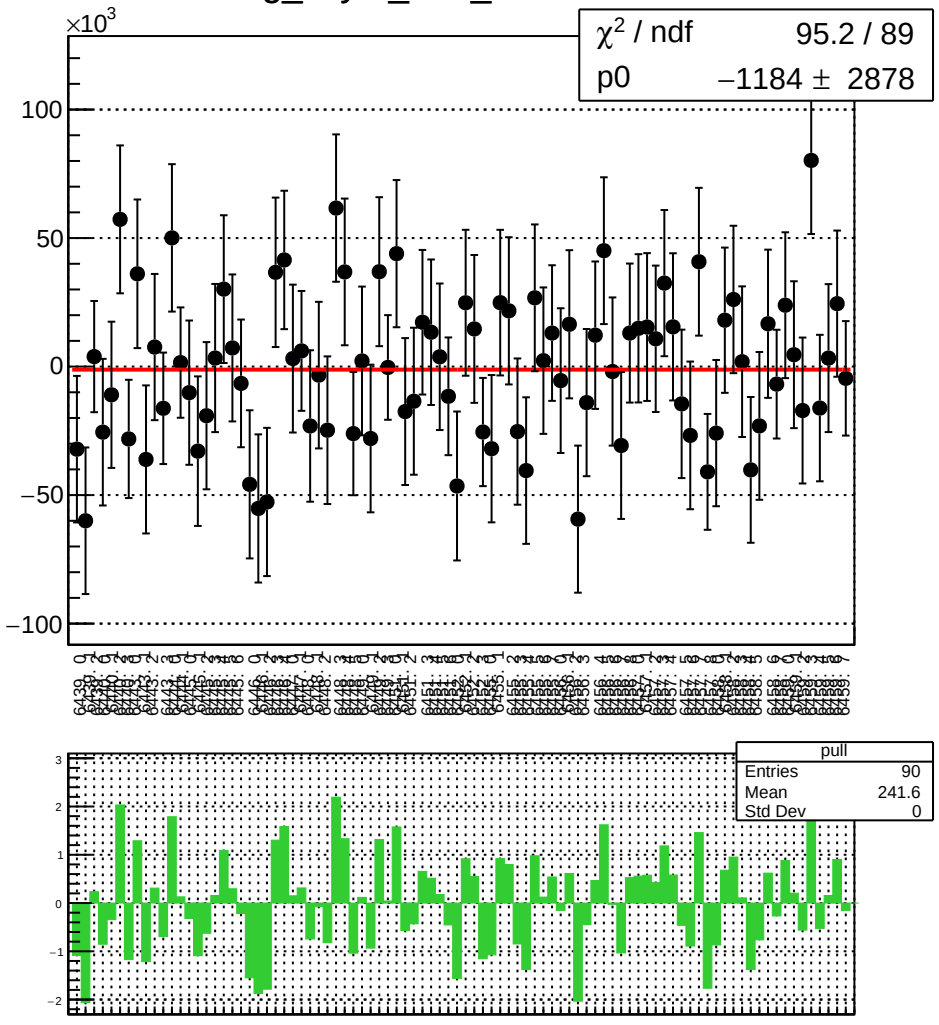

pull1D
Entries 90
Mean 0.006337
Std Dev 0.9477

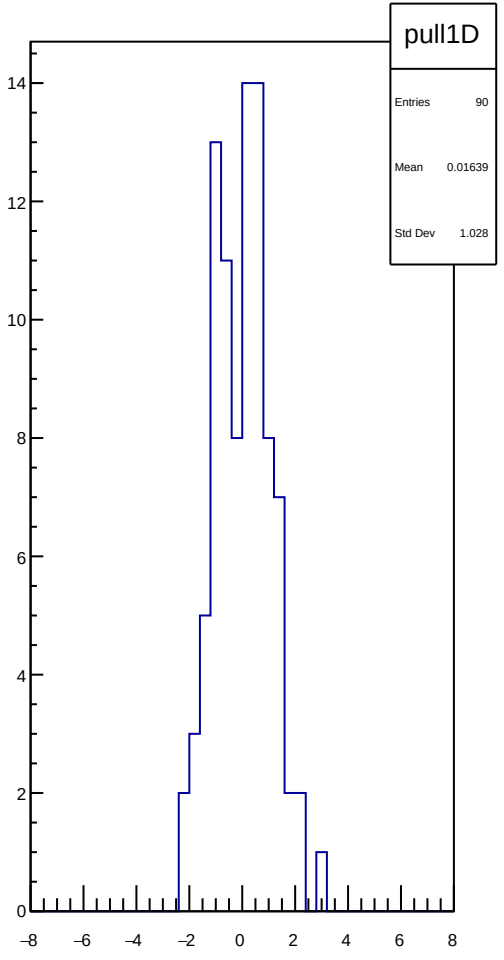

asym_atl2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.126e+04 / 89
p0 416.3 ± 0.3146
1000
900
800
700
600
500
400
300

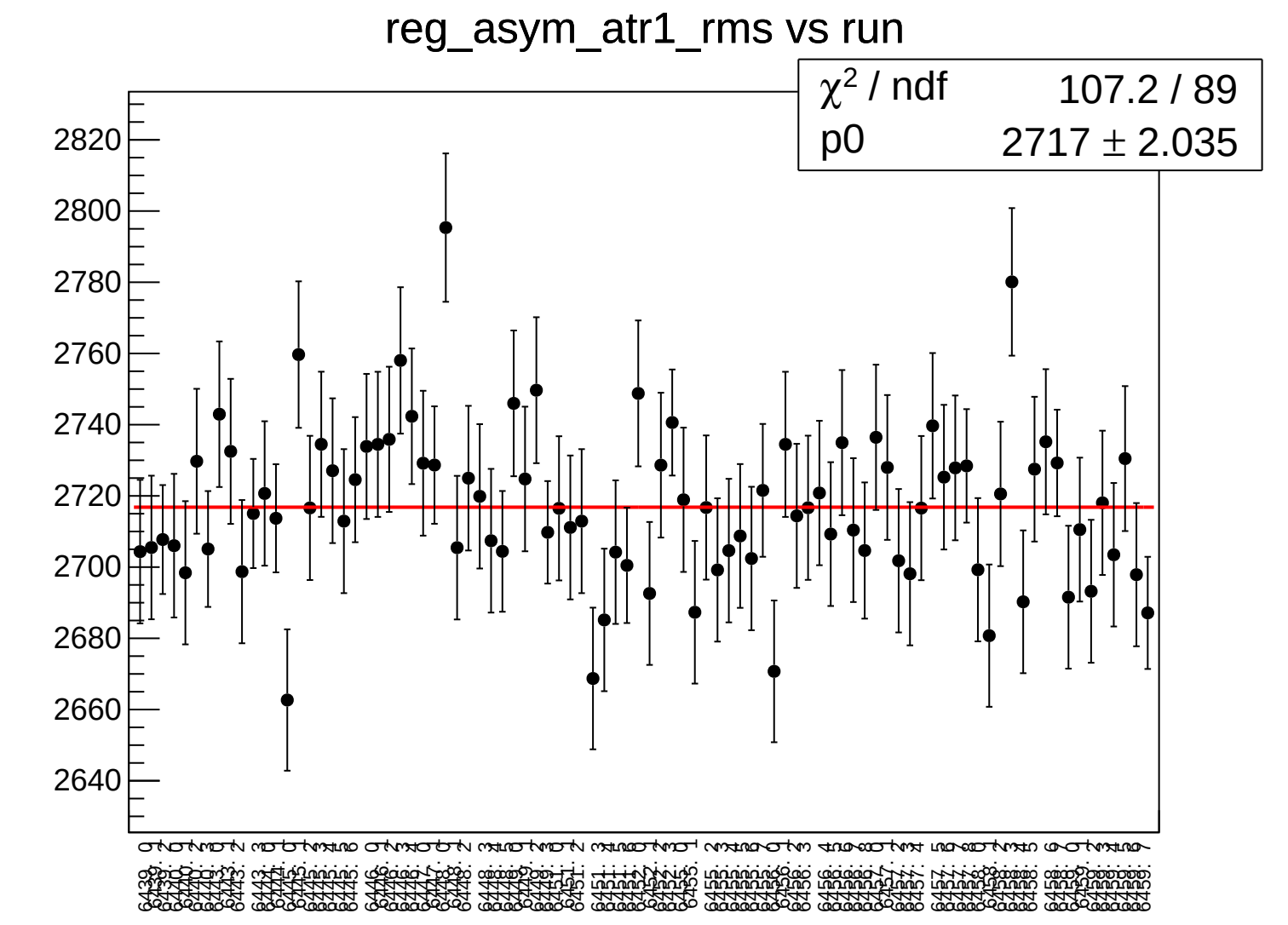

asym_atl2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.43 / 89
p0 −8.949e−14 ± 1.171e−13
pull
Entries 90
Mean −73.68
Std Dev 0

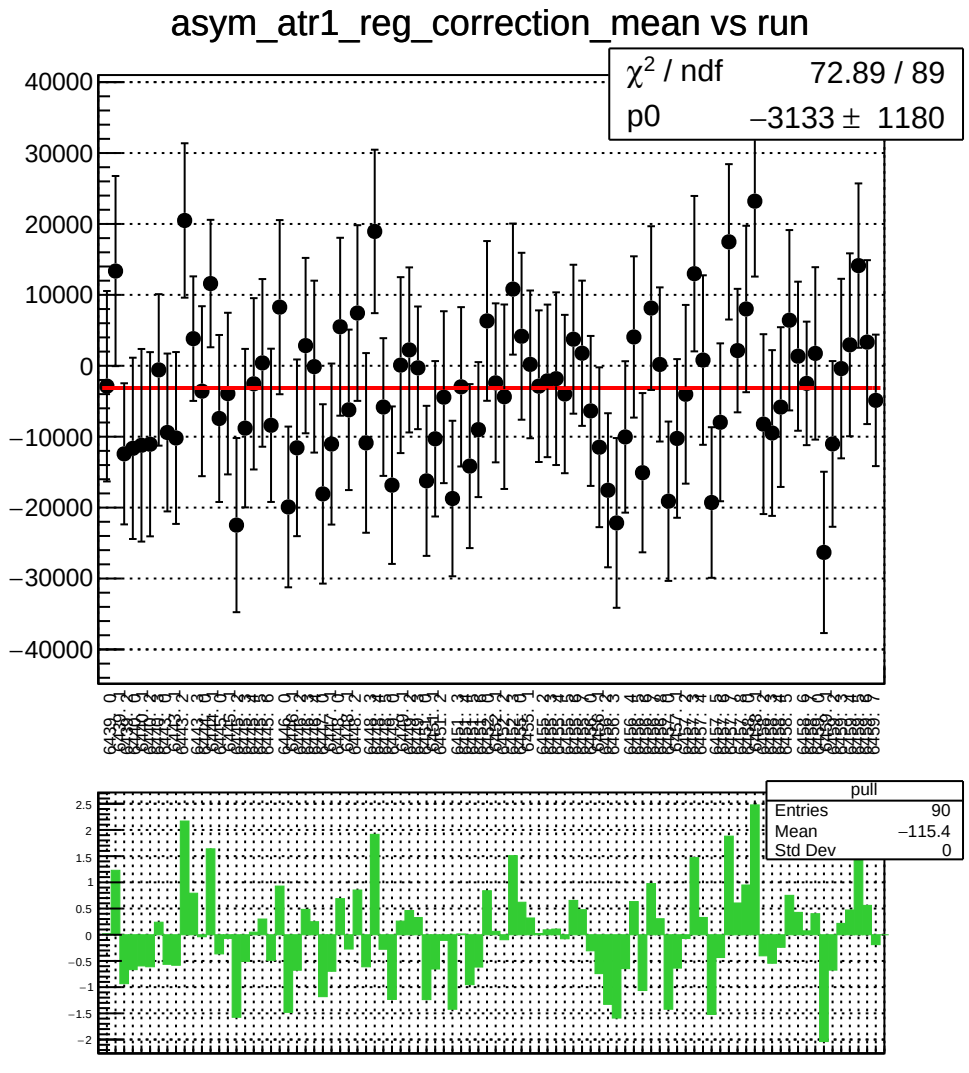

pull1D
Entries 90
Mean 0.01415
Std Dev 0.9511

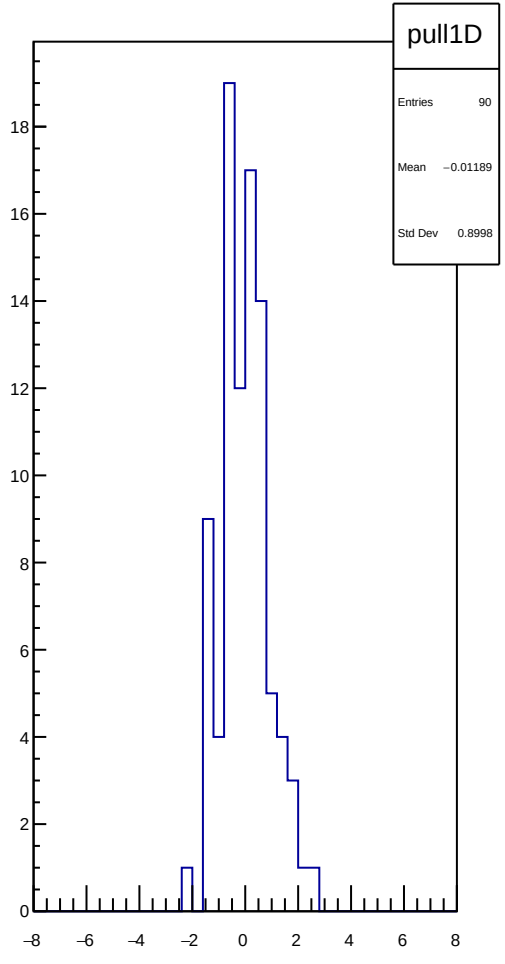

asym_atl2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.467e+05 / 89
p0 8.428e−11 ± 8.283e−14
1
0.8
0.6
0.4
0.2

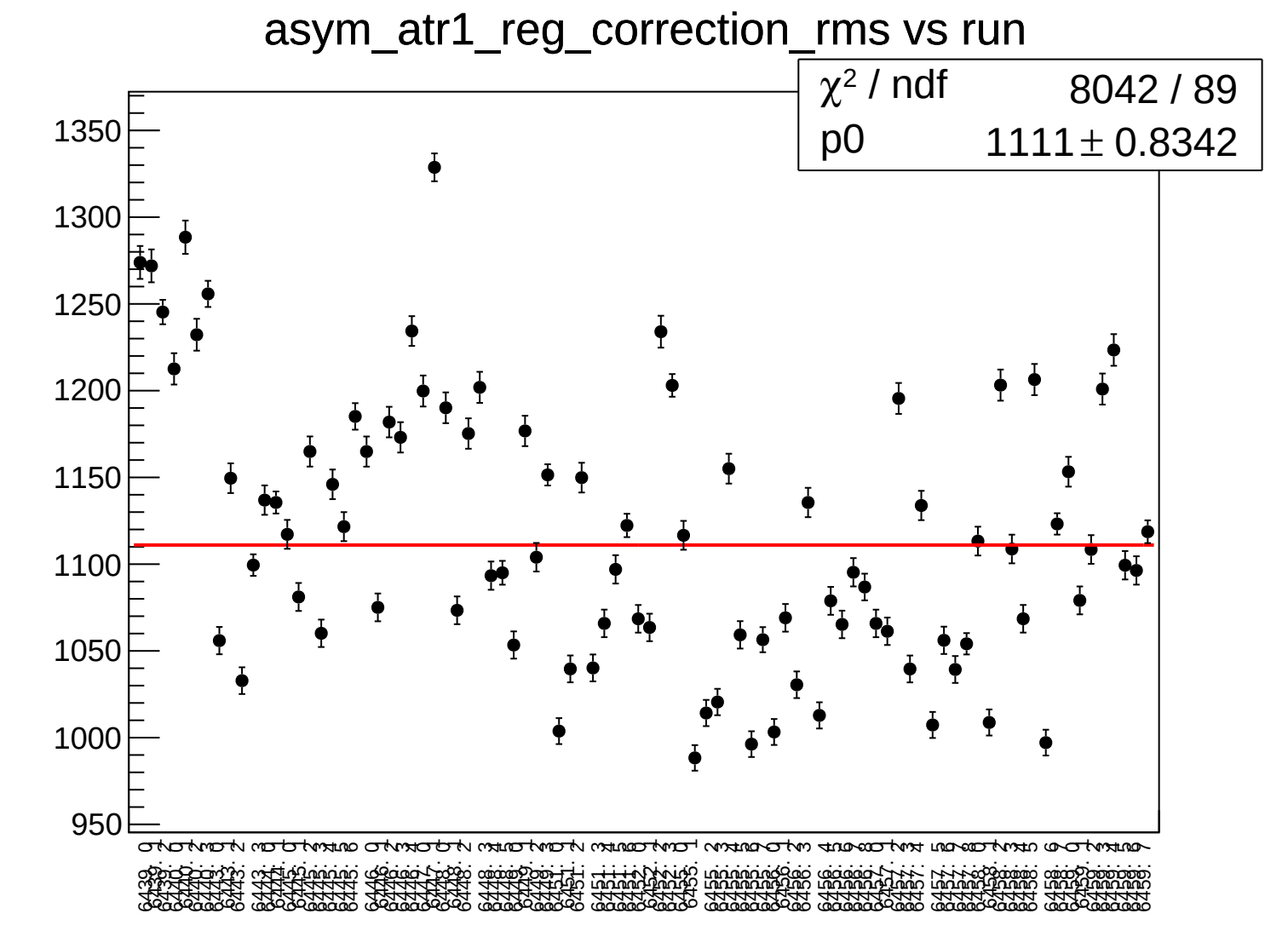

reg_asym_atr1_mean vs run
×10^3
χ² / ndf 95.2 / 89
p0 −1184 ± 2878
100
50
0
−50
−100
pull
Entries 90
Mean 241.6
Std Dev 0
3
2
1
0
−1
−2

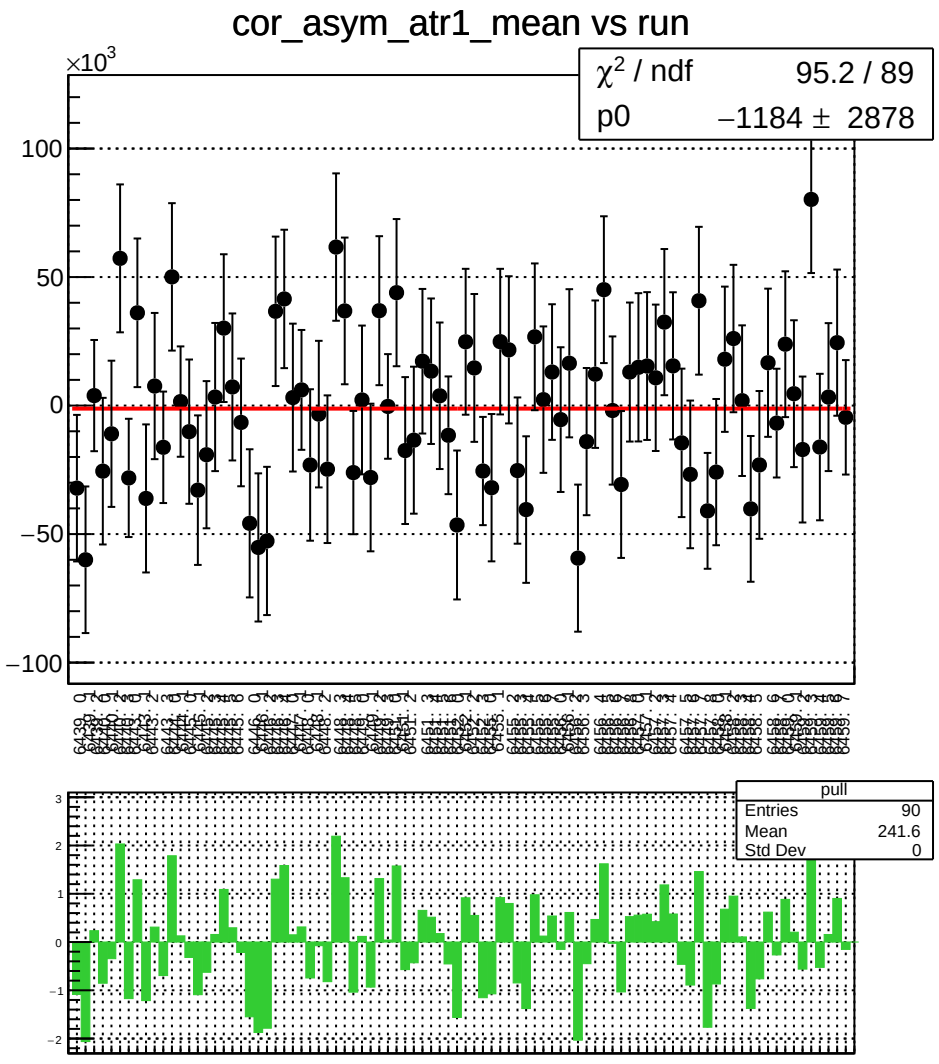

pull1D
Entries 90
Mean 0.01639
Std Dev 1.028
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

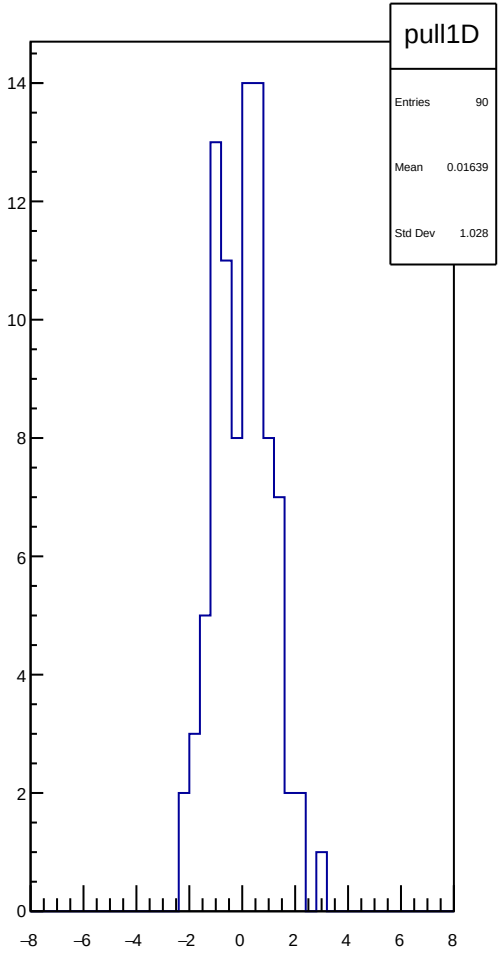

reg_asym_atr1_rms vs run
χ^2 / ndf 107.2 / 89
p0 2717 ± 2.035
2820
2800
2780
2760
2740
2720
2700
2680
2660
2640

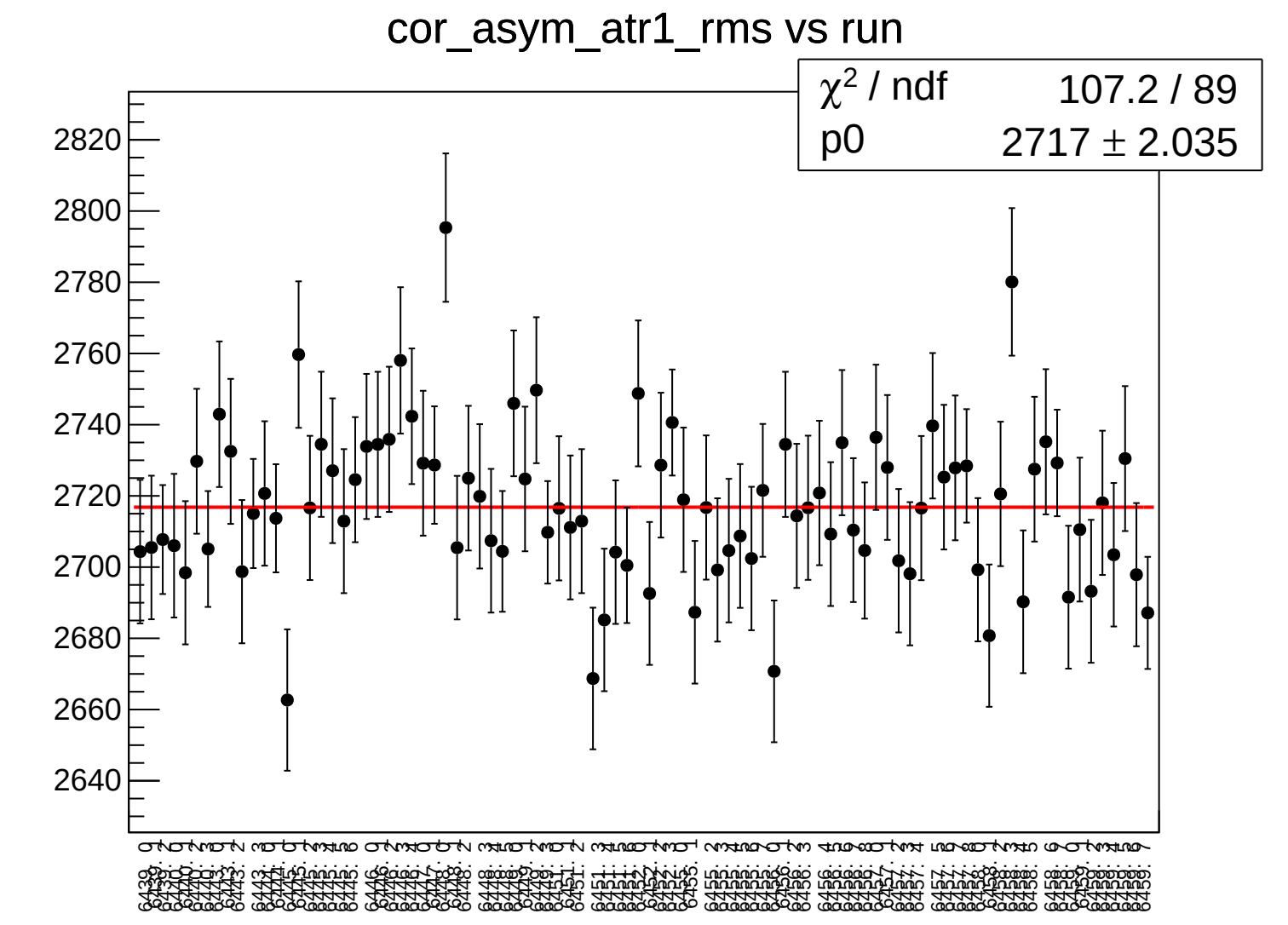

asym_atr1_reg_correction_mean vs run
χ² / ndf 72.89 / 89
p0 −3133 ± 1180
pull
Entries 90
Mean −115.4
Std Dev 0

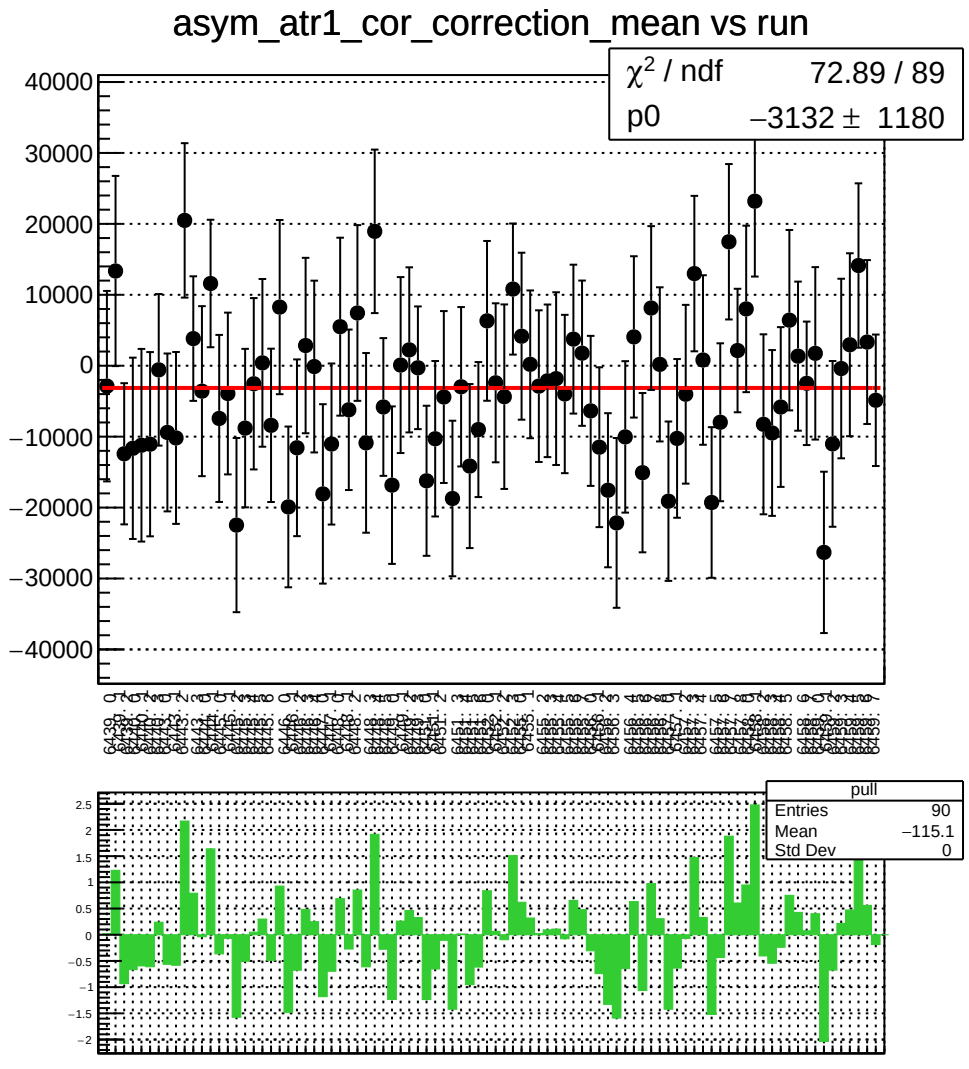

pull1D
Entries 90
Mean −0.01189
Std Dev 0.8998

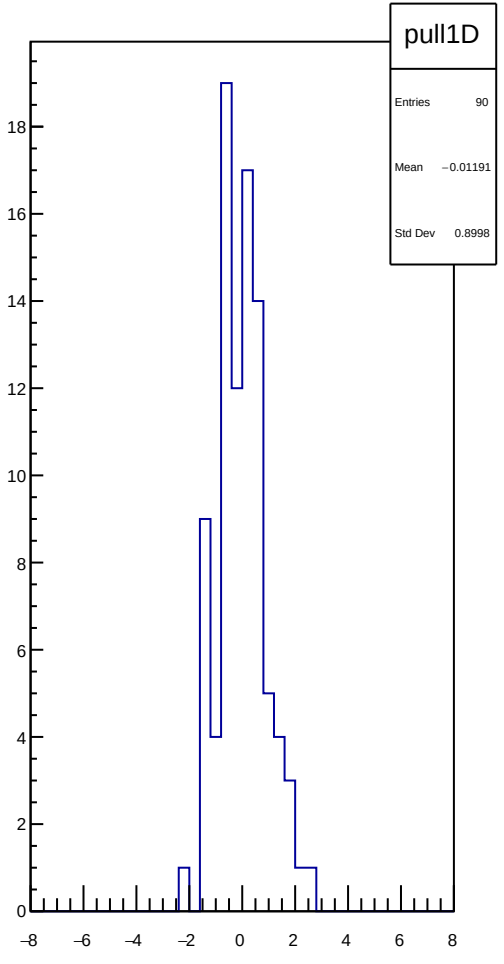

asym_atr1_reg_correction_rms vs run
χ² / ndf 8042 / 89
p0 1111 ± 0.8342
1350
1300
1250
1200
1150
1100
1050
1000
950

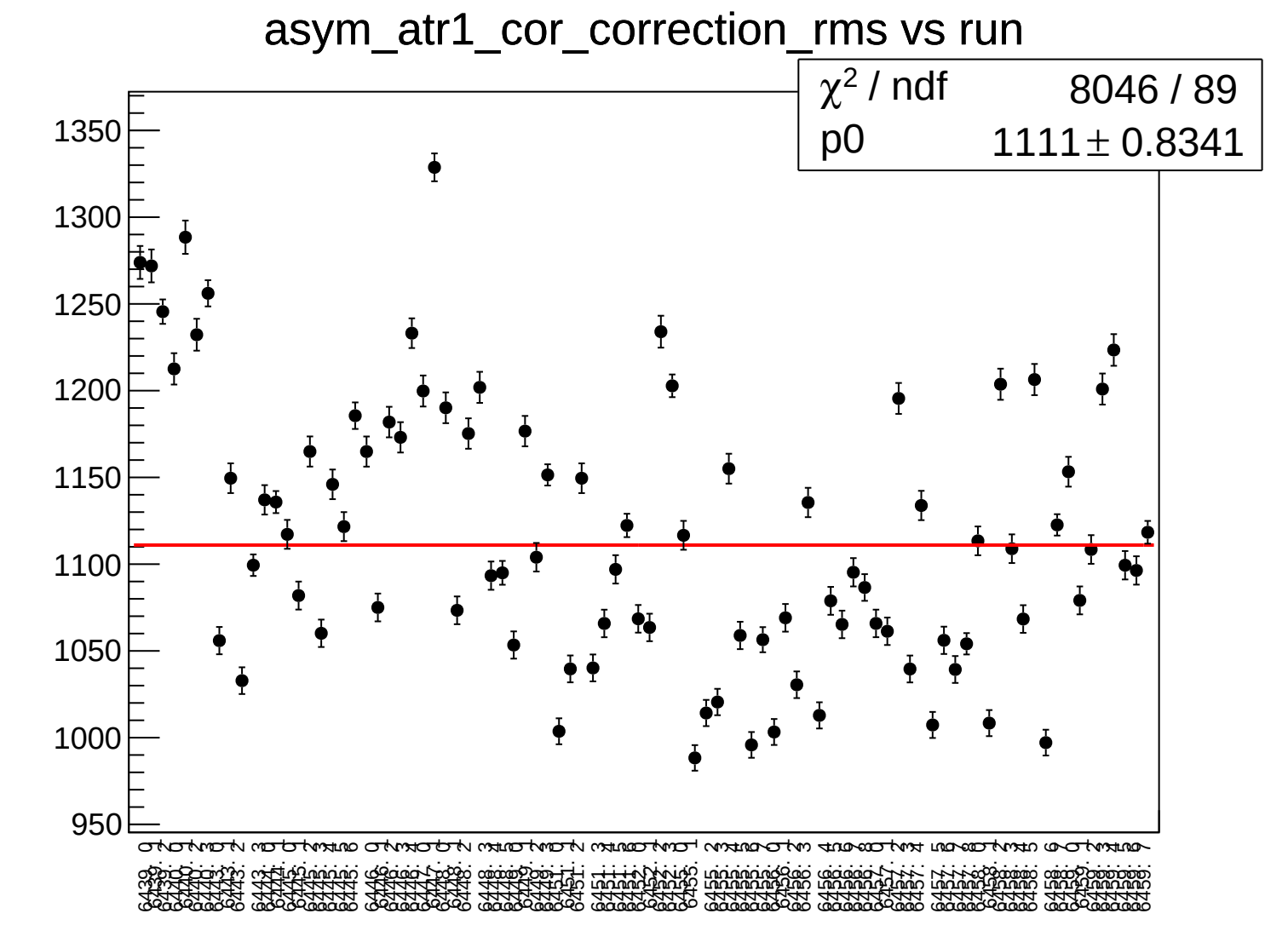

cor_asym_atr1_mean vs run
×10^3
χ^2 / ndf 95.2 / 89
p0 −1184 ± 2878
100
50
0
−50
−100
pull
Entries 90
Mean 241.6
Std Dev 0
3
2
1
0
−1
−2

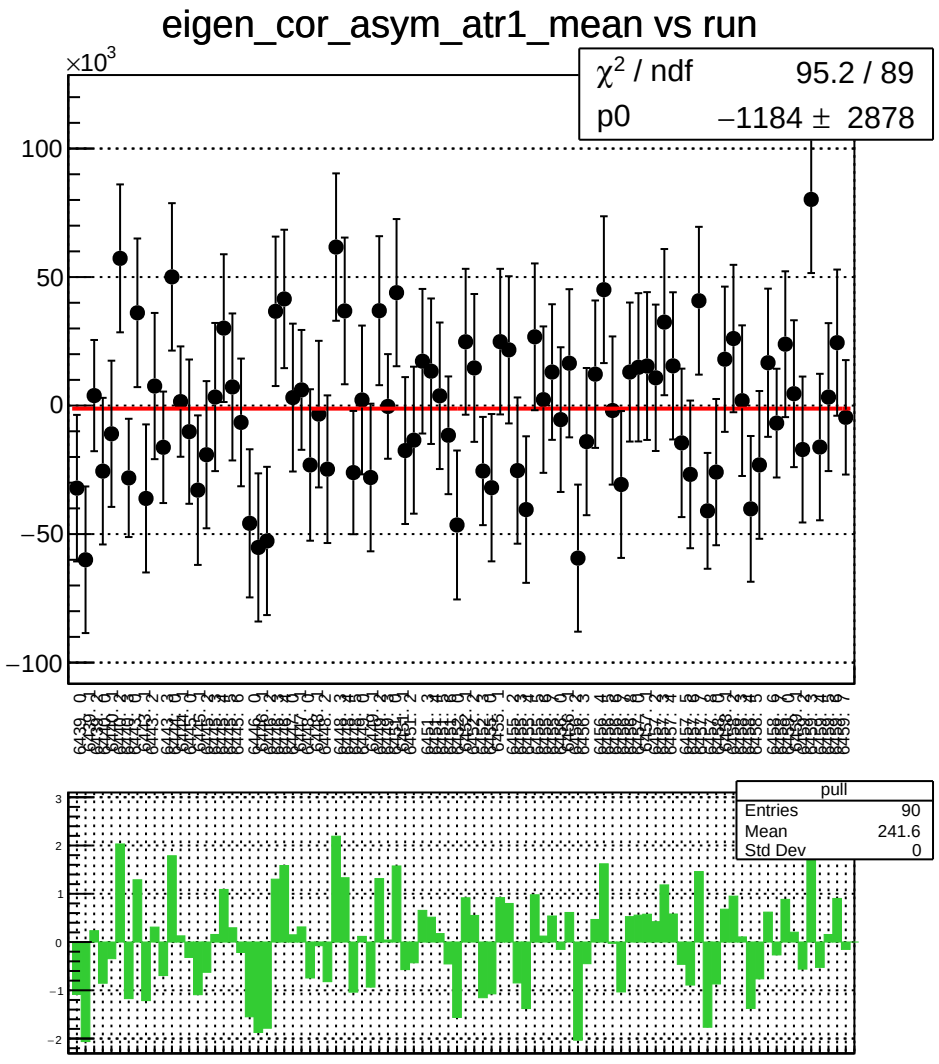

pull1D
Entries 90
Mean 0.01639
Std Dev 1.028
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

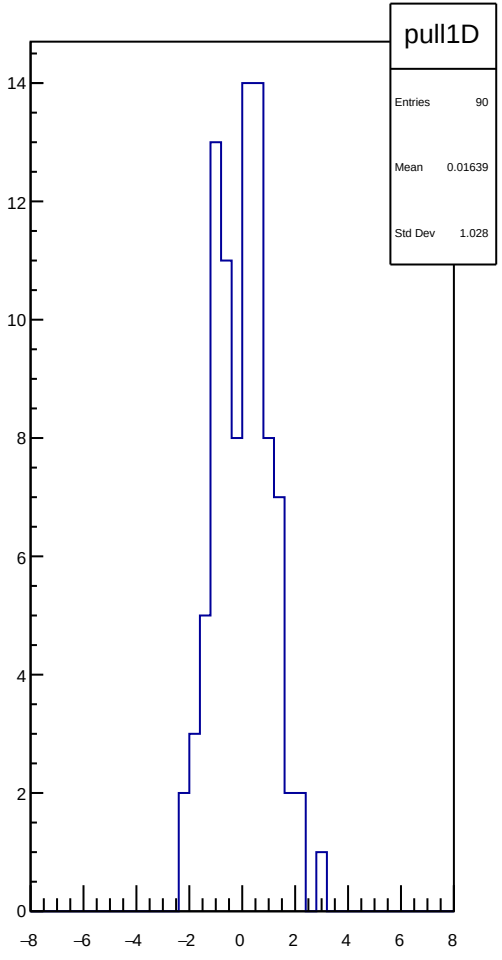

cor_asym_atr1_rms vs run
χ² / ndf 107.2 / 89
p0 2717 ± 2.035
2820
2800
2780
2760
2740
2720
2700
2680
2660
2640

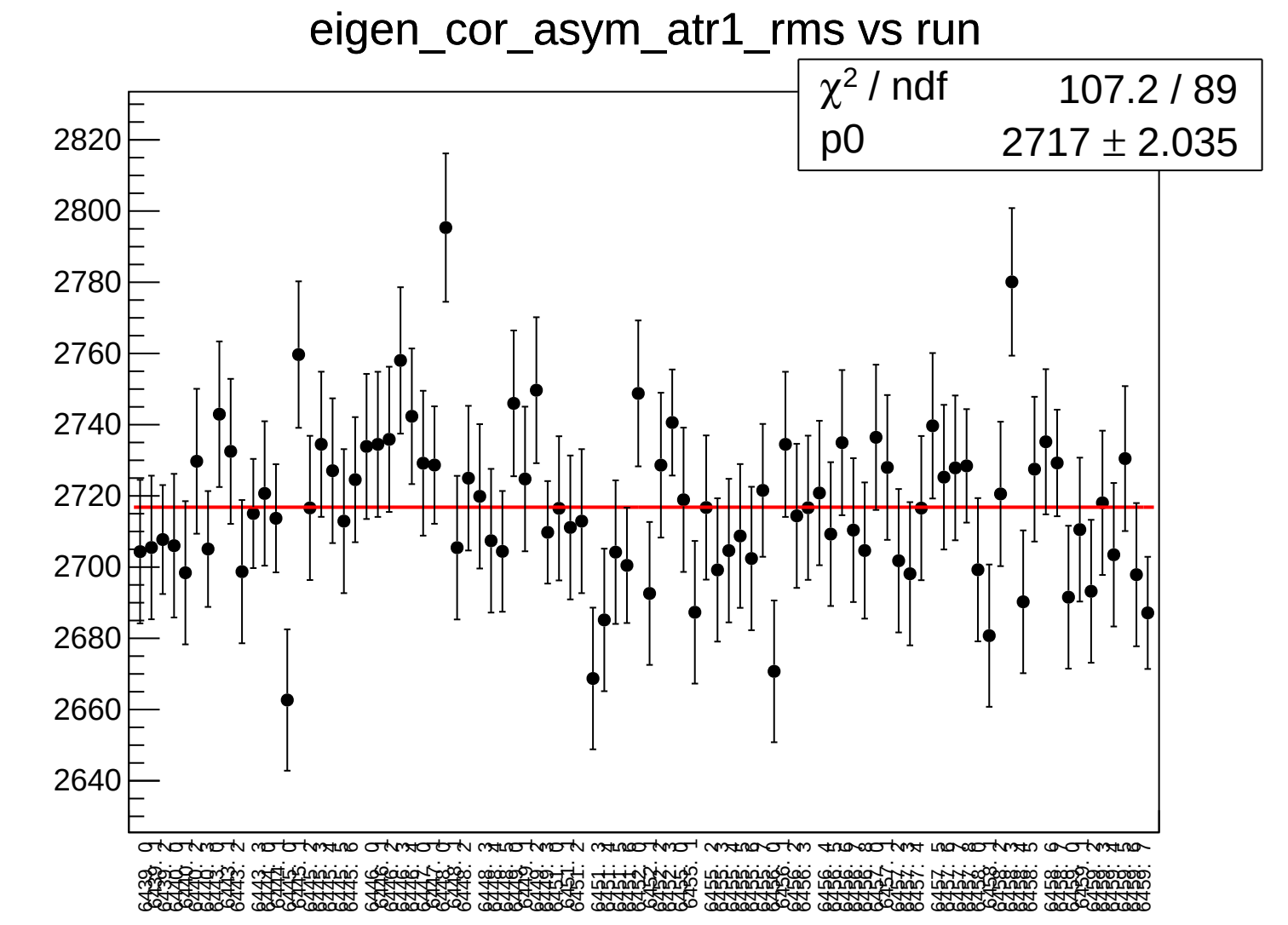

asym_atr1_cor_correction_mean vs run
χ² / ndf 72.89 / 89
p0 −3132 ± 1180
pull
Entries 90
Mean −115.1
Std Dev 0

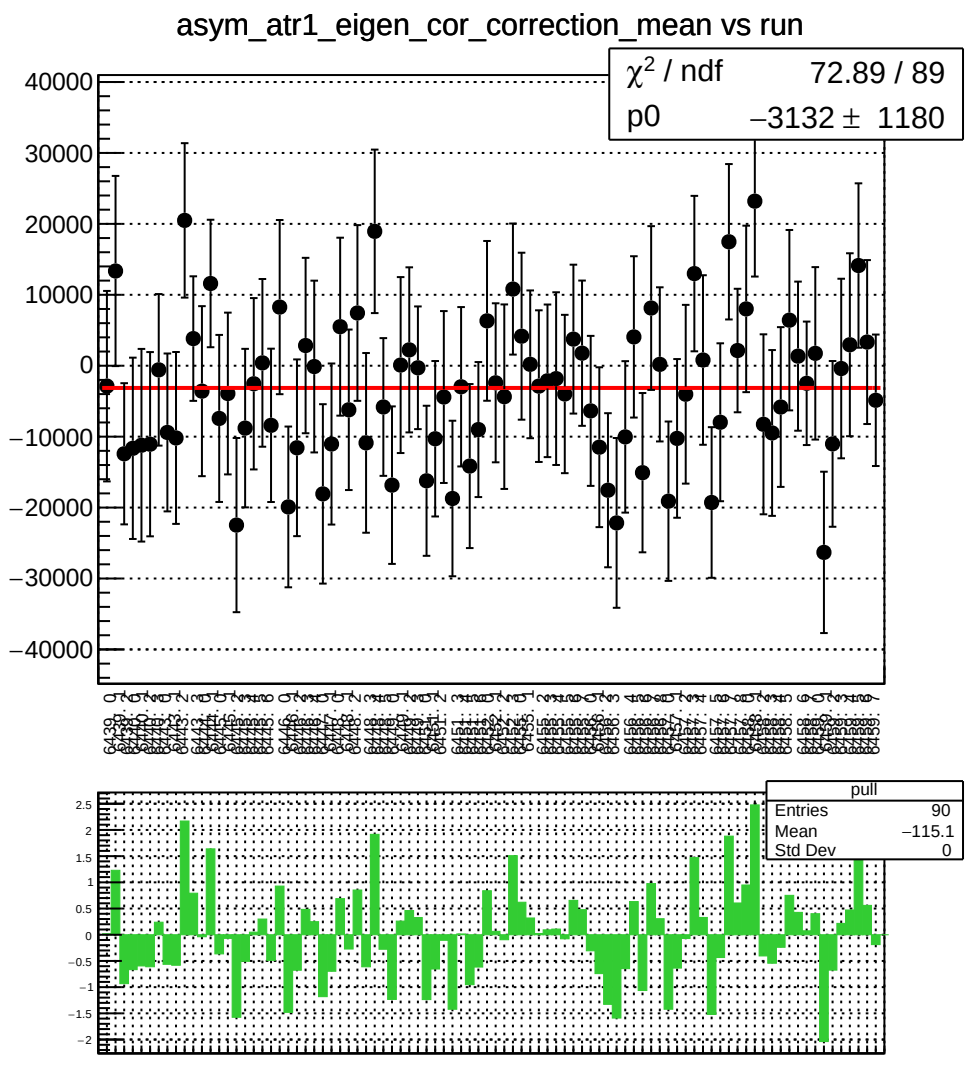

pull1D
Entries 90
Mean −0.01191
Std Dev 0.8998

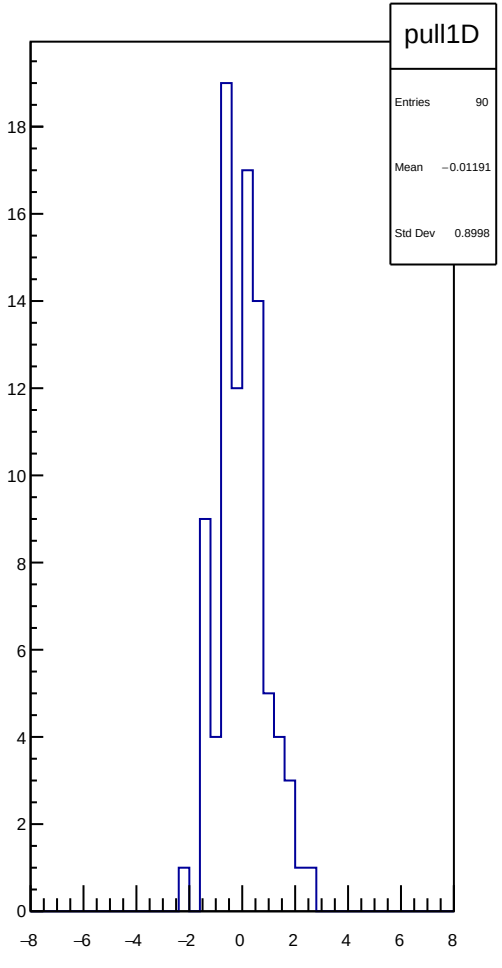

asym_atr1_cor_correction_rms vs run
χ² / ndf 8046 / 89
p0 1111 ± 0.8341
1350
1300
1250
1200
1150
1100
1050
1000
950

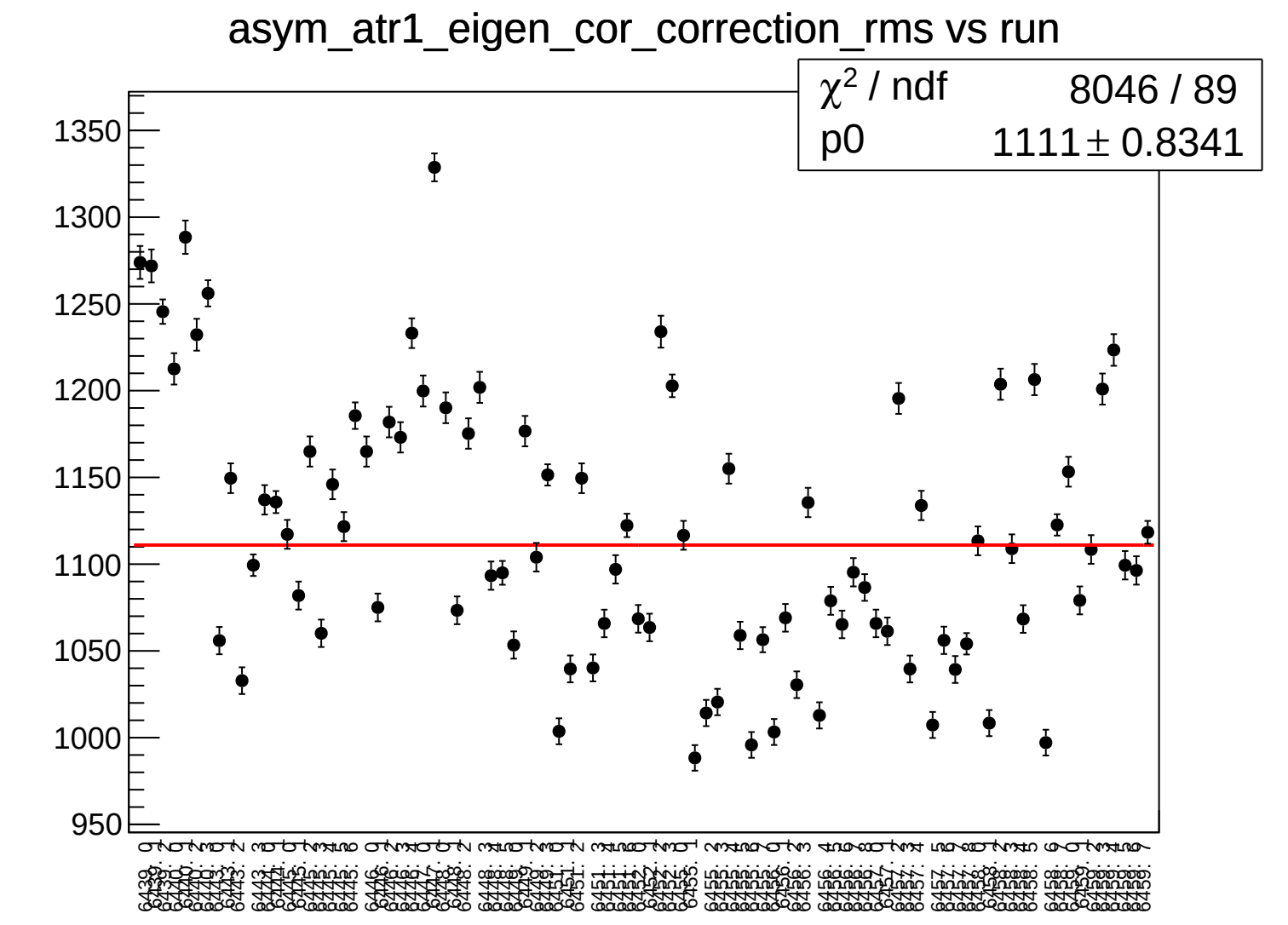

eigen_cor_asym_atr1_mean vs run
×10^3
χ² / ndf 95.2 / 89
p0 −1184 ± 2878
100
50
0
−50
−100
pull
Entries 90
Mean 241.6
Std Dev 0
3
2
1
0
−1
−2

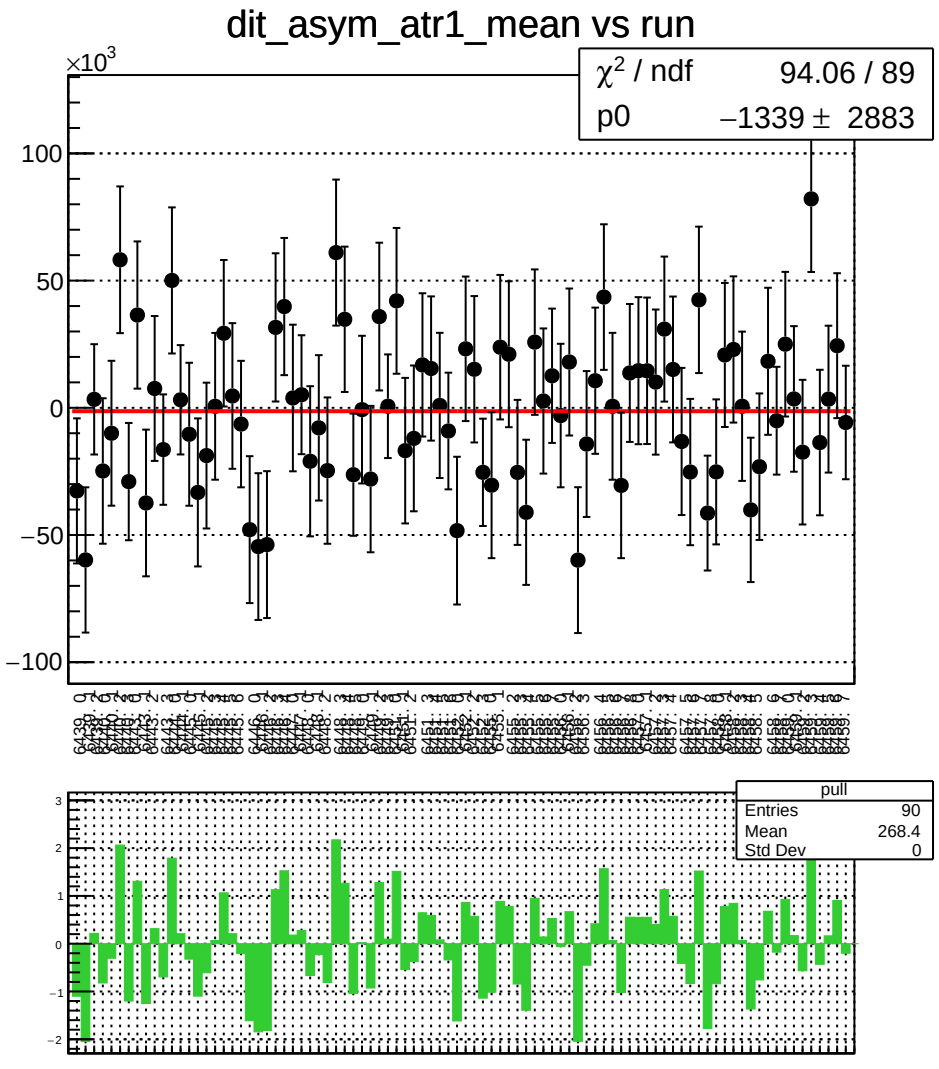

pull1D
Entries 90
Mean 0.01639
Std Dev 1.028
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

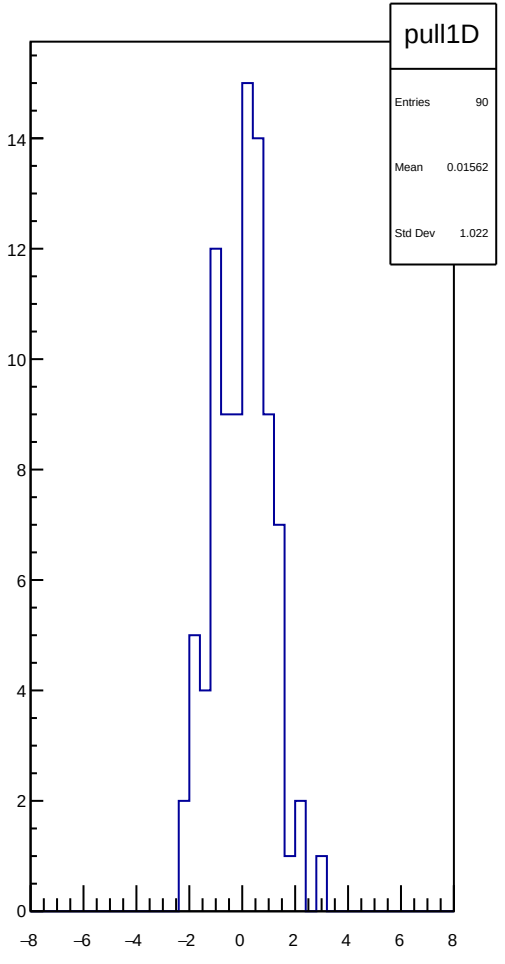

eigen_cor_asym_atr1_rms vs run
χ² / ndf 107.2 / 89
p0 2717 ± 2.035
2820
2800
2780
2760
2740
2720
2700
2680
2660
2640

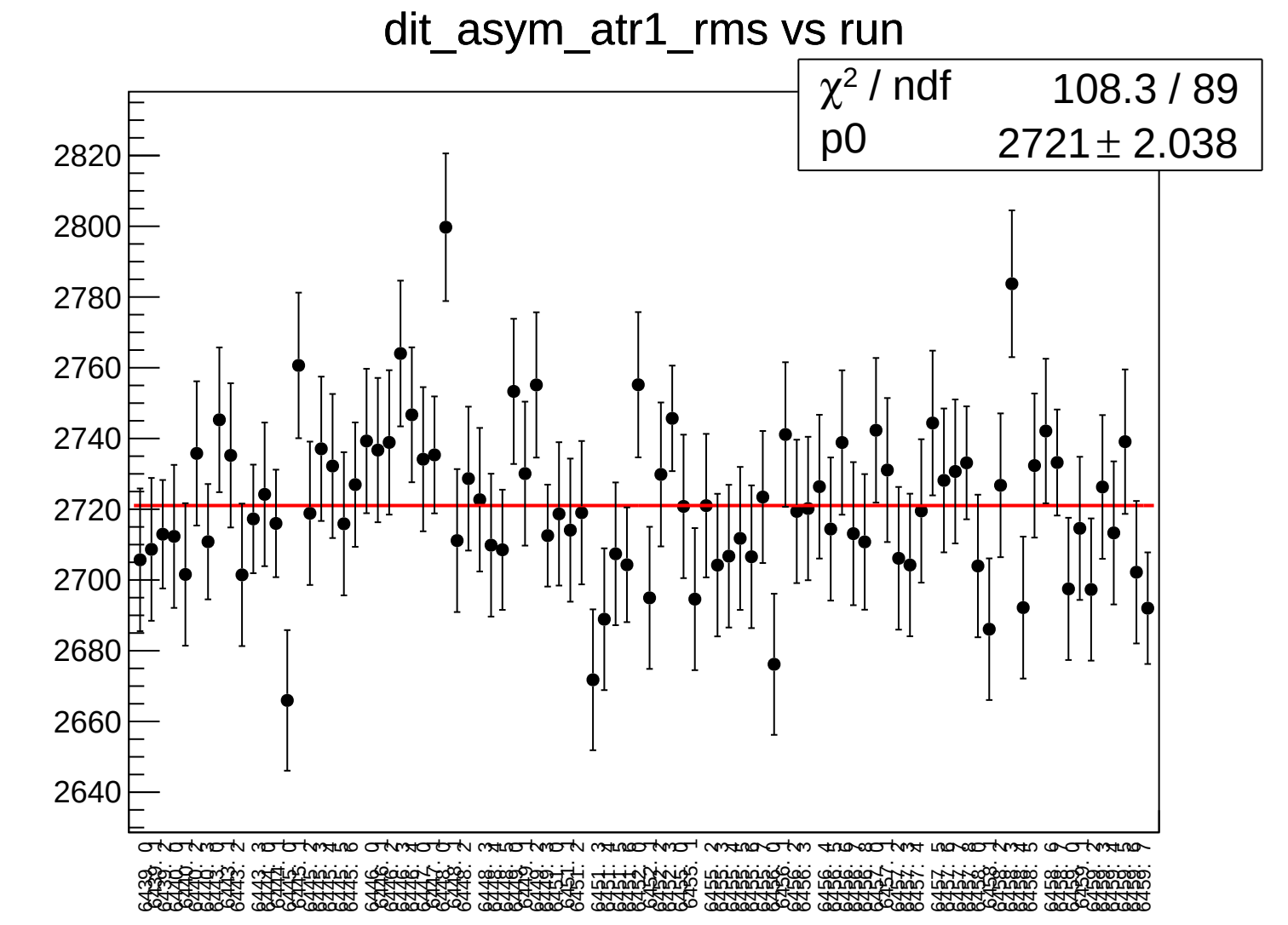

asym_atr1_eigen_cor_correction_mean vs run
χ² / ndf 72.89 / 89
p0 −3132 ± 1180
pull
Entries 90
Mean −115.1
Std Dev 0

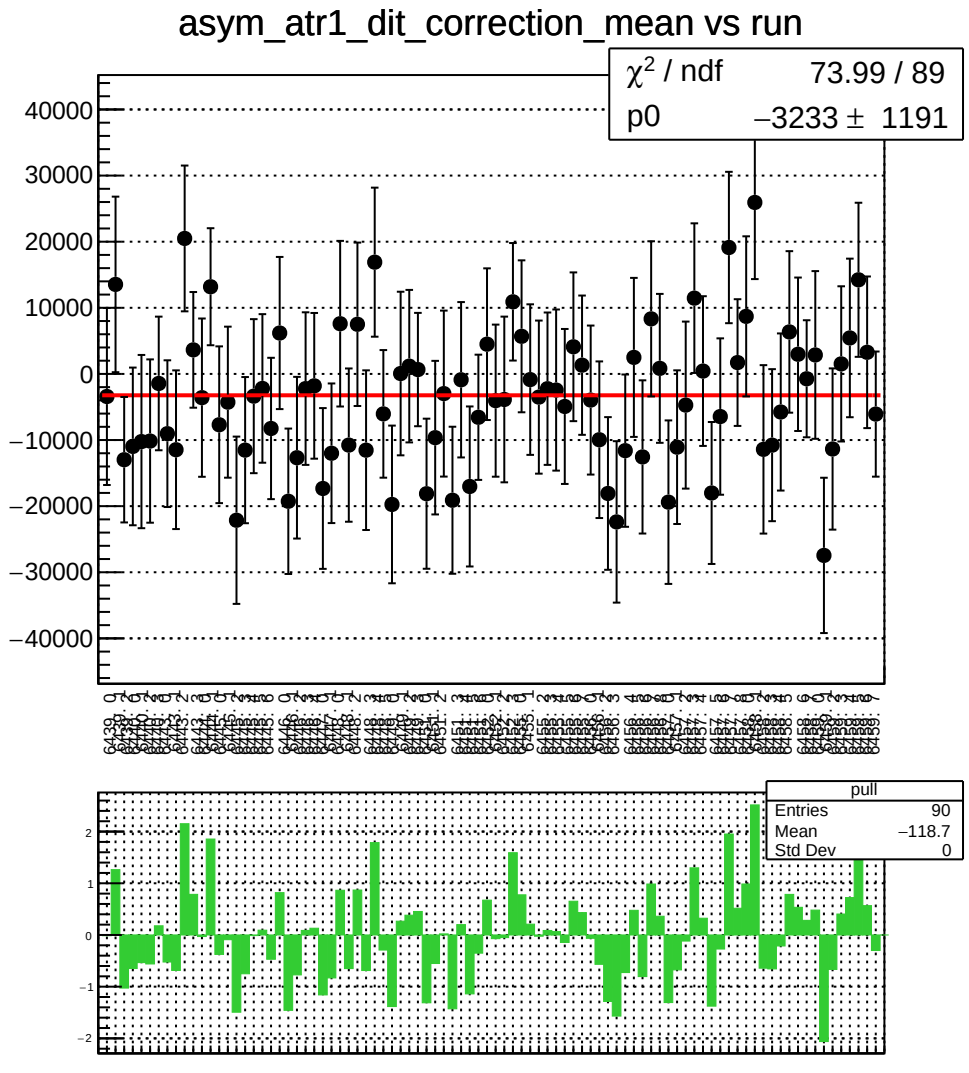

pull1D
Entries 90
Mean −0.01191
Std Dev 0.8998

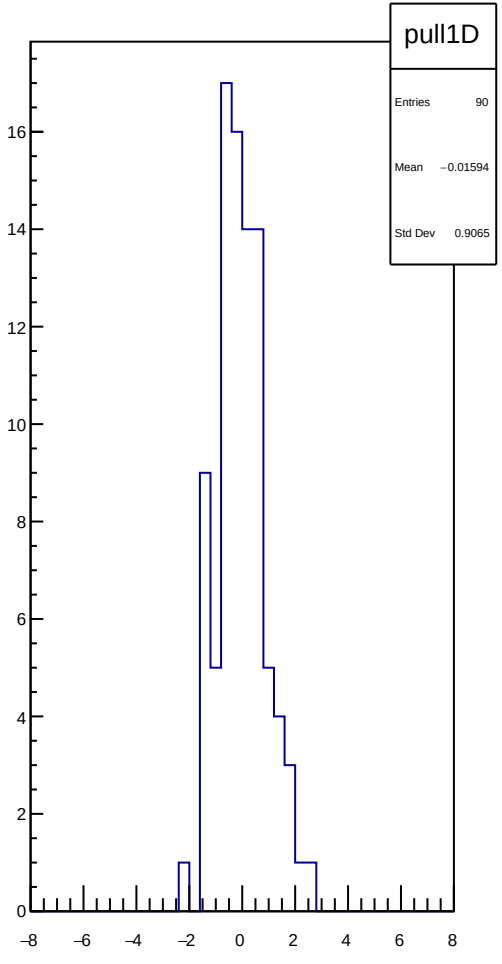

asym_atr1_eigen_cor_correction_rms vs run
χ² / ndf 8046 / 89
p0 1111 ± 0.8341
1350
1300
1250
1200
1150
1100
1050
1000
950

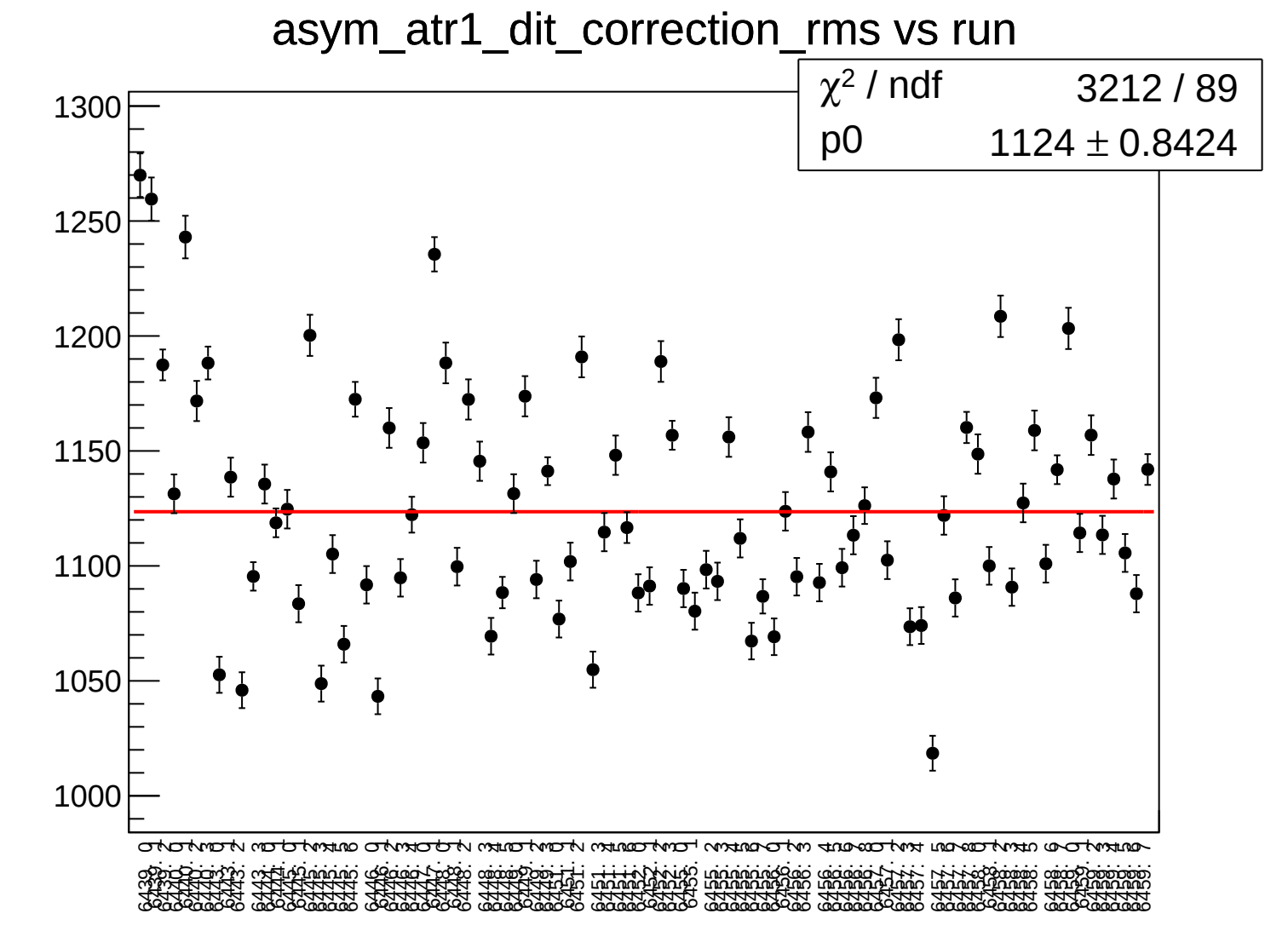

dit_asym_atr1_mean vs run
×10^3
χ² / ndf 94.06 / 89
p0 −1339 ± 2883
100
50
0
−50
−100
pull
Entries 90
Mean 268.4
Std Dev 0
3
2
1
0
−1
−2

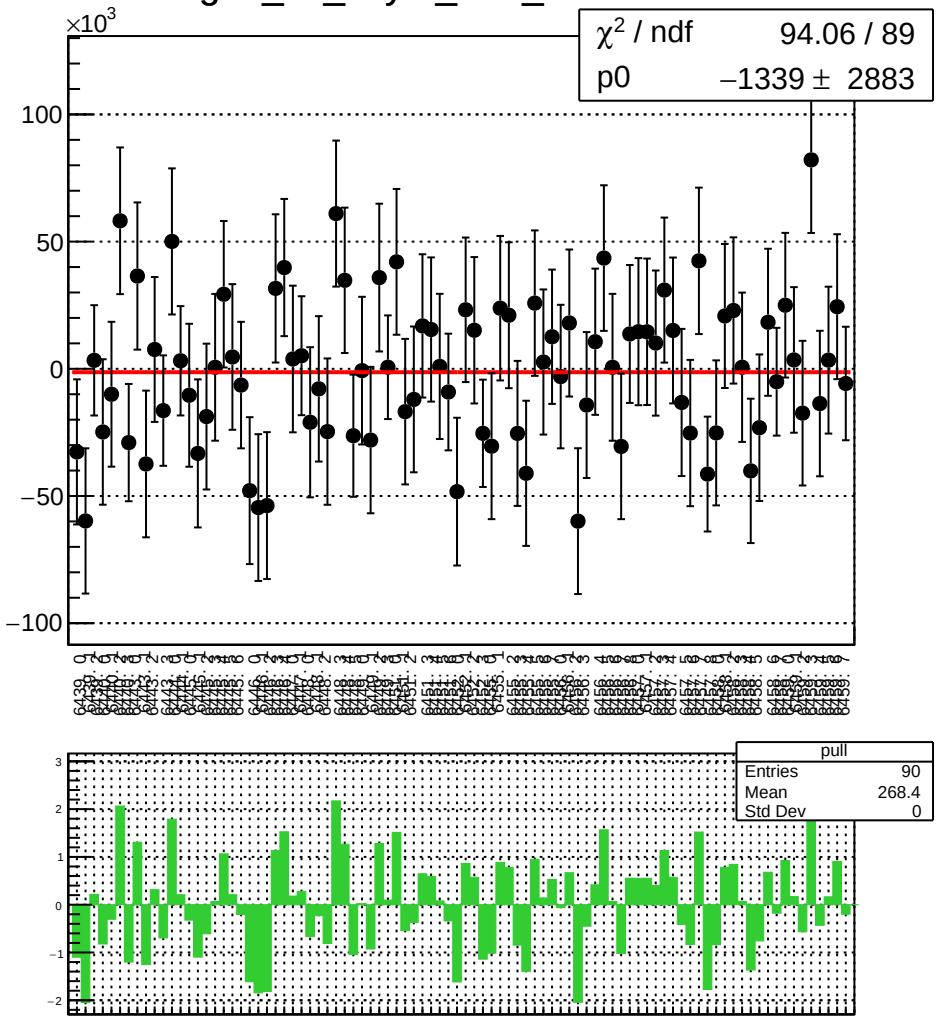

pull1D
Entries 90
Mean 0.01562
Std Dev 1.022
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

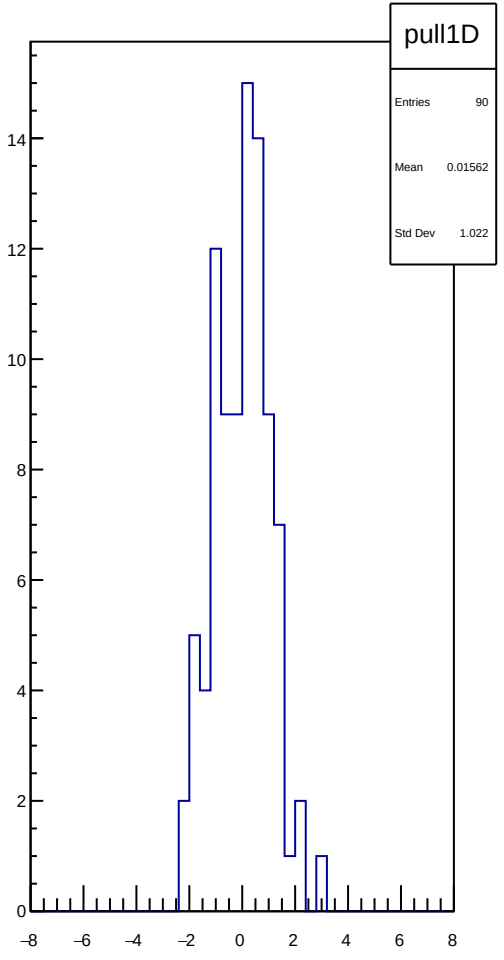

dit_asym_atr1_rms vs run
χ² / ndf 108.3 / 89
p0 2721 ± 2.038
2820
2800
2780
2760
2740
2720
2700
2680
2660
2640

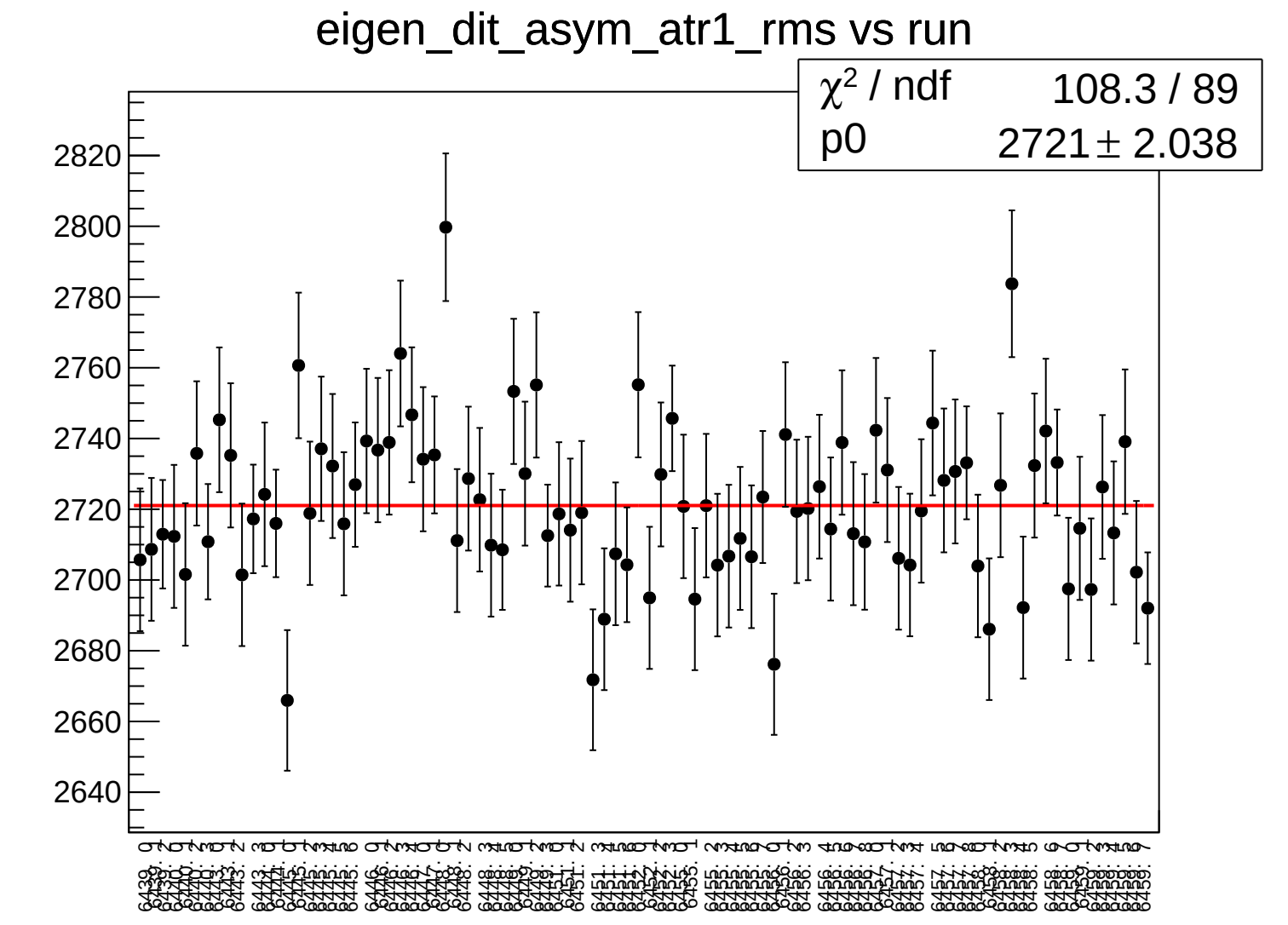

asym_atr1_dit_correction_mean vs run
χ² / ndf 73.99 / 89
p0 −3233 ± 1191
pull
Entries 90
Mean −118.7
Std Dev 0

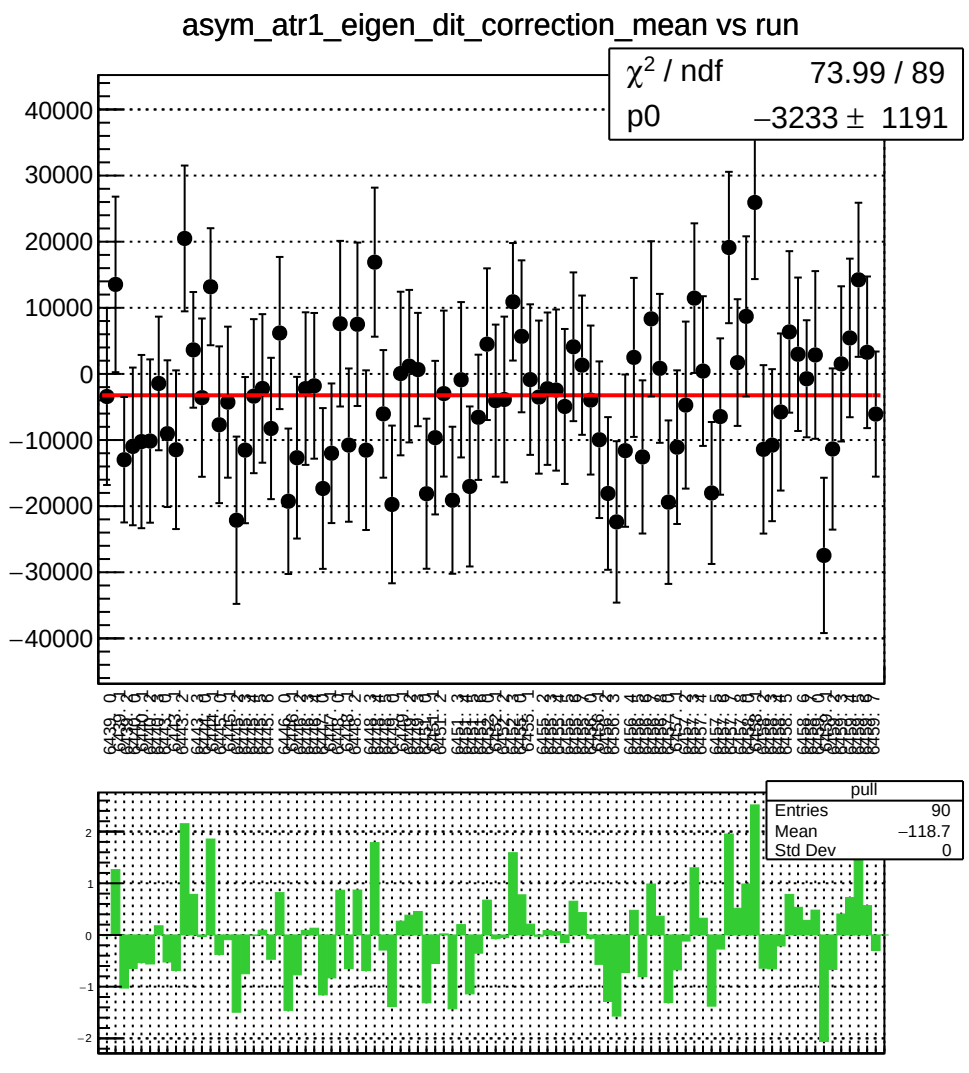

pull1D
Entries 90
Mean −0.01594
Std Dev 0.9065

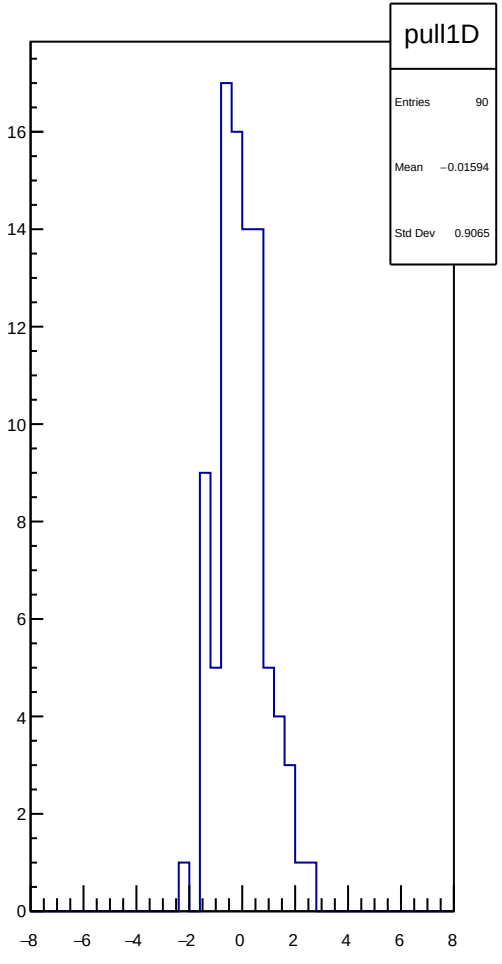

asym_atr1_dit_correction_rms vs run
χ² / ndf 3212 / 89
p0 1124 ± 0.8424
1300
1250
1200
1150
1100
1050
1000

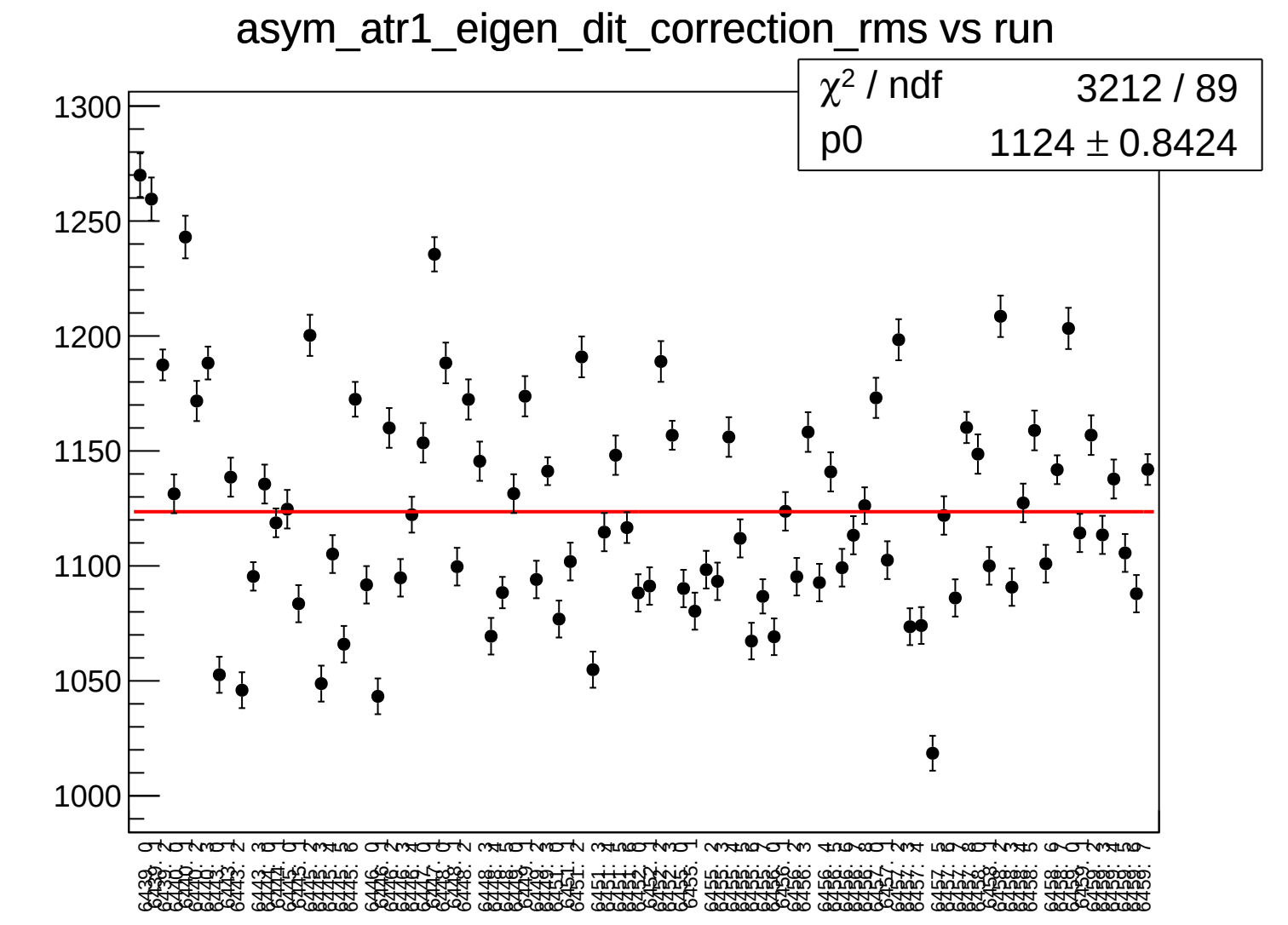

eigen_dit_asym_atr1_mean vs run
×10^3
χ² / ndf 94.06 / 89
p0 −1339 ± 2883
100
50
0
−50
−100
pull
Entries 90
Mean 268.4
Std Dev 0
3
2
1
0
−1
−2

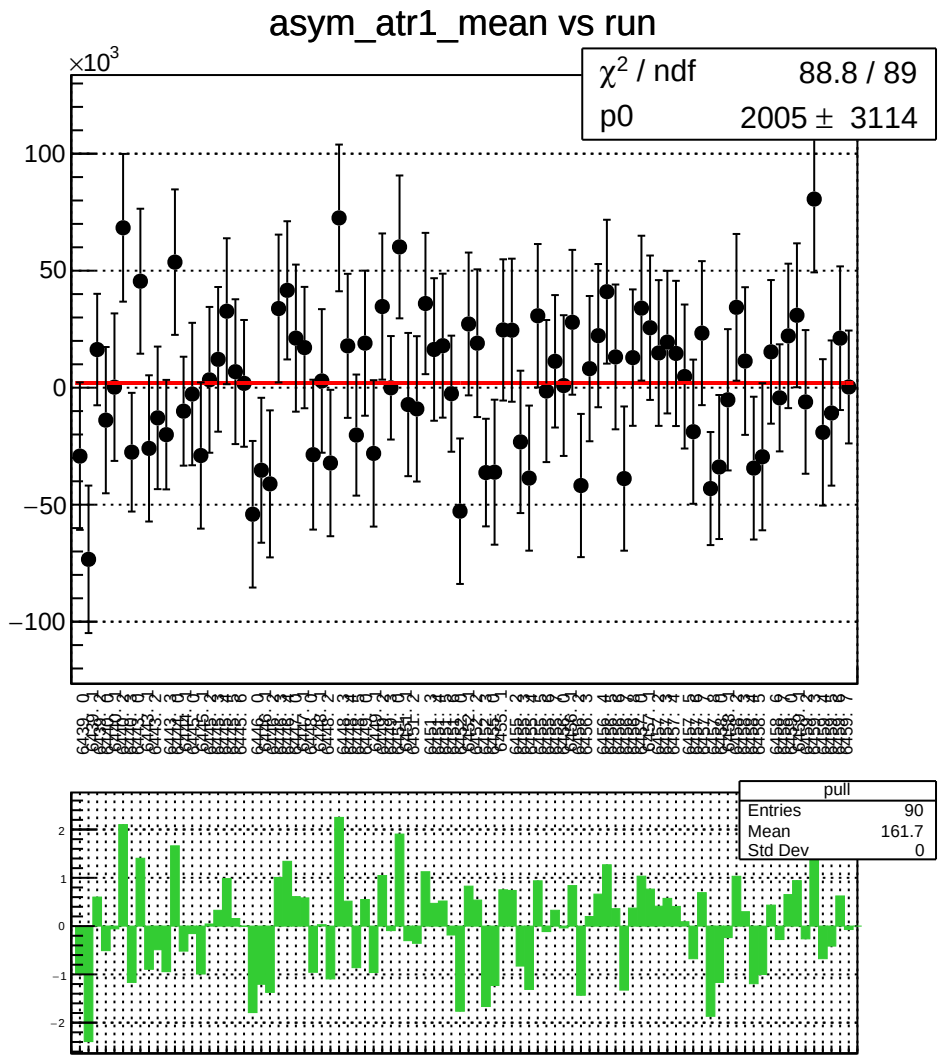

pull1D
Entries 90
Mean 0.01562
Std Dev 1.022
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

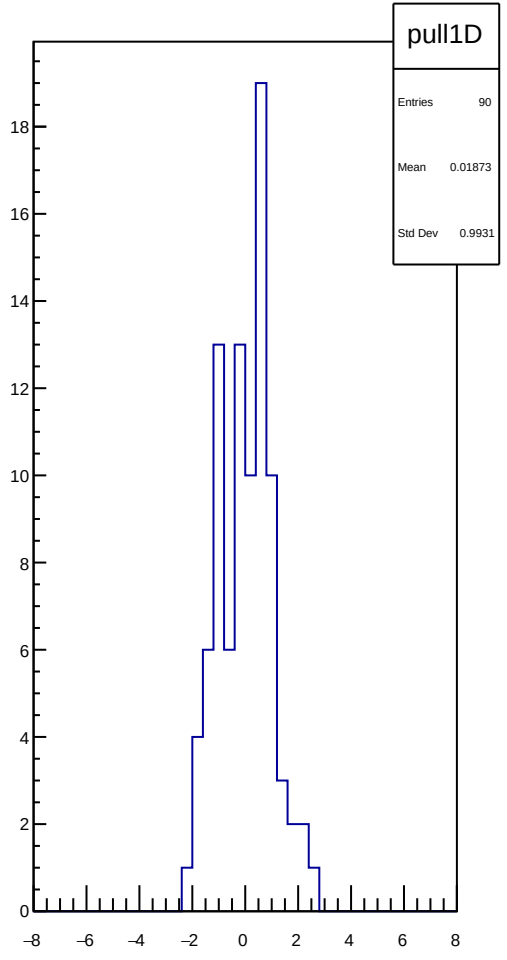

eigen_dit_asym_atr1_rms vs run
χ² / ndf 108.3 / 89
p0 2721 ± 2.038
2820
2800
2780
2760
2740
2720
2700
2680
2660
2640

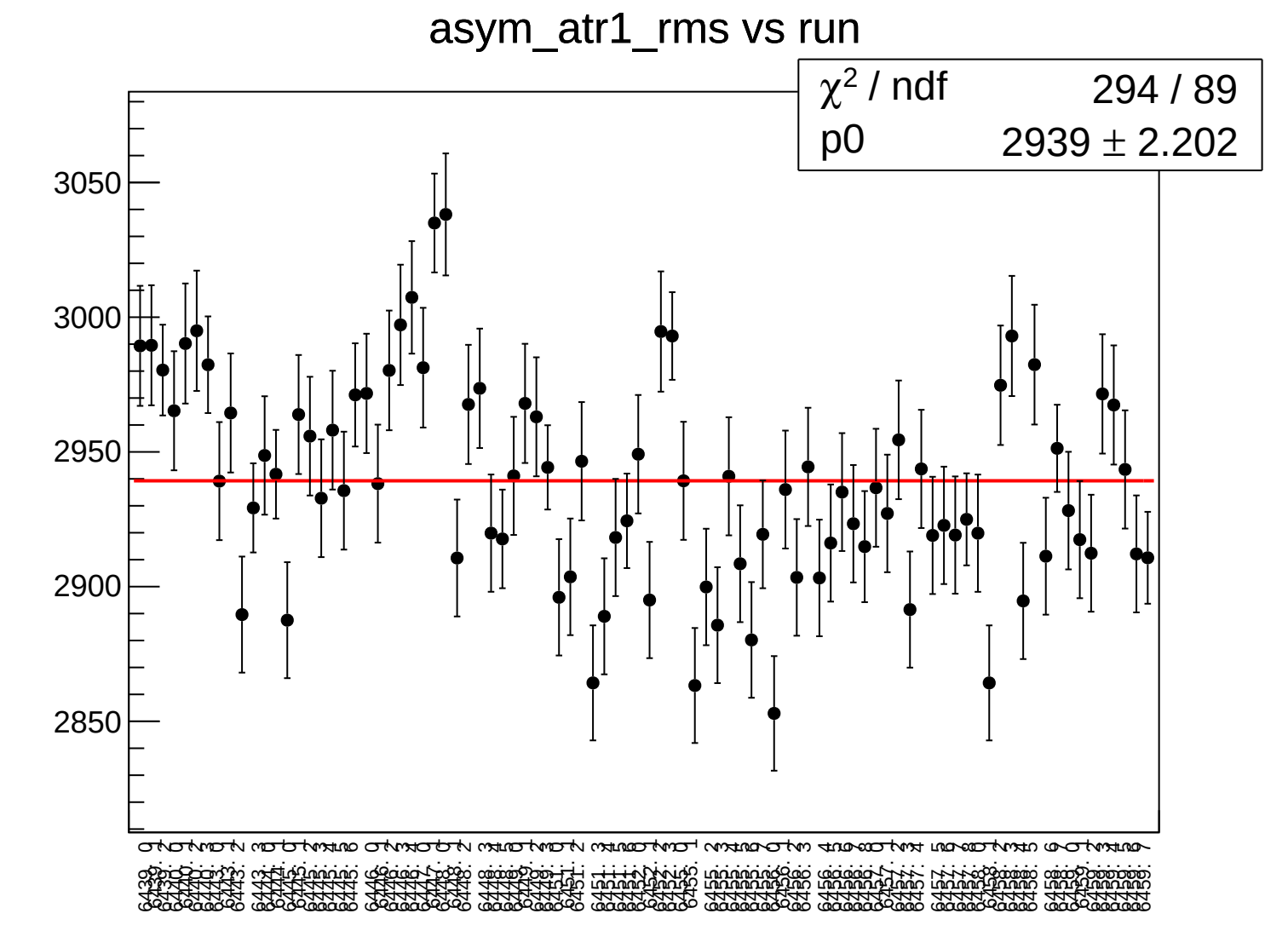

asym_atr1_eigen_dit_correction_mean vs run
χ² / ndf 73.99 / 89
p0 −3233 ± 1191
pull
Entries 90
Mean −118.7
Std Dev 0

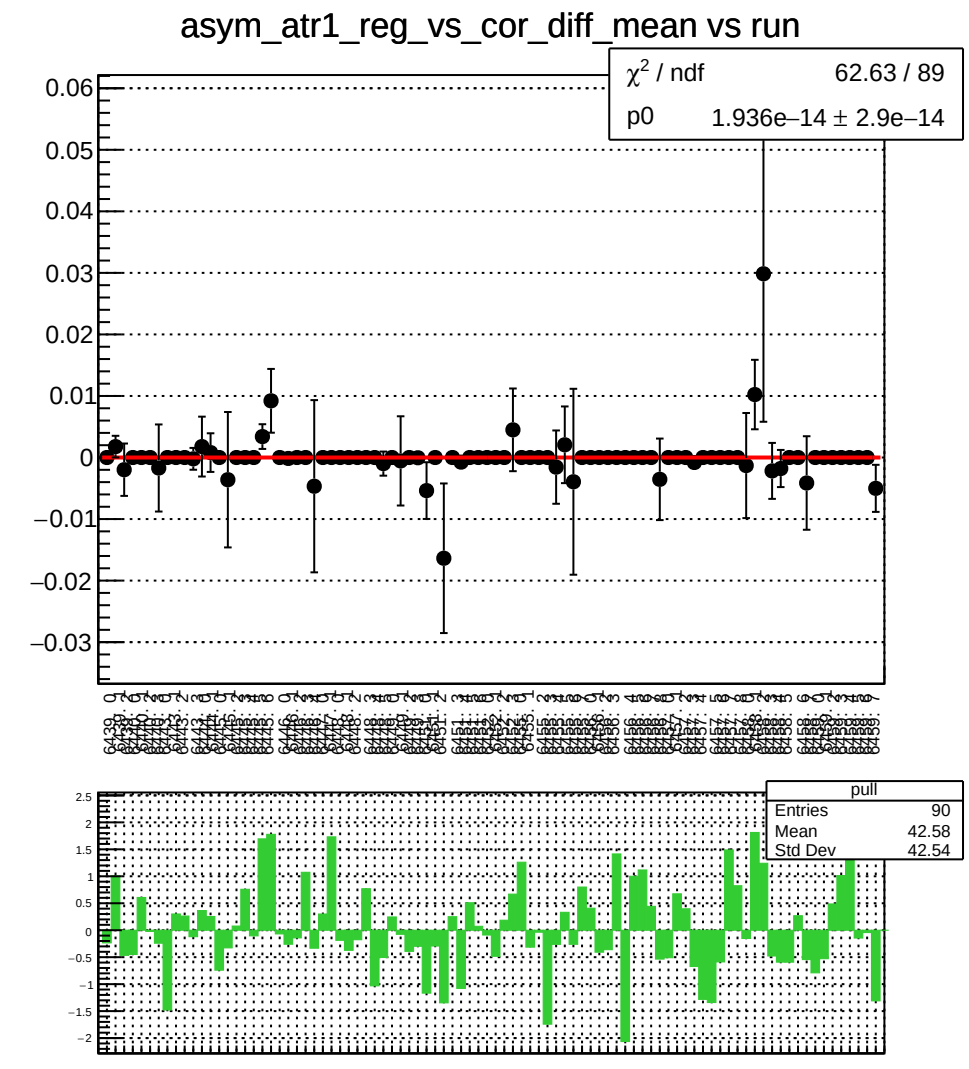

pull1D
Entries 90
Mean −0.01594
Std Dev 0.9065

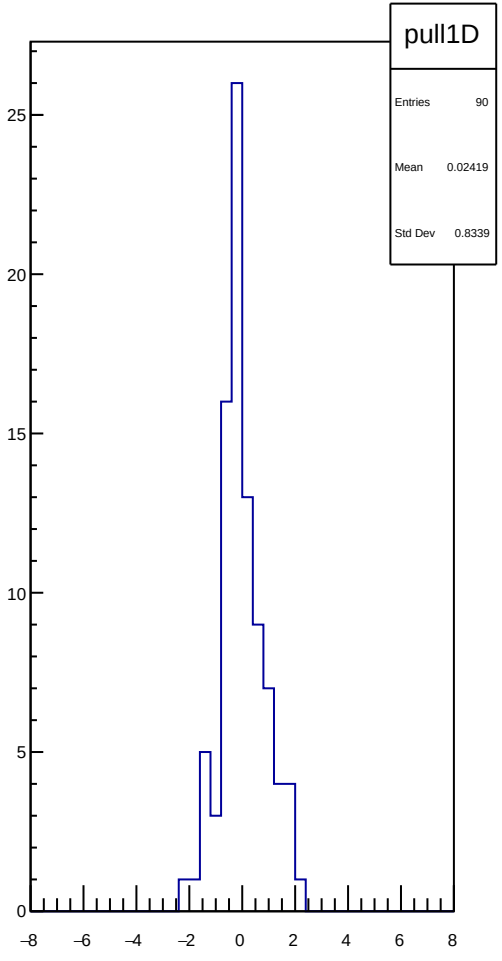

asym_atr1_eigen_dit_correction_rms vs run
χ² / ndf 3212 / 89
p0 1124 ± 0.8424
1300
1250
1200
1150
1100
1050
1000

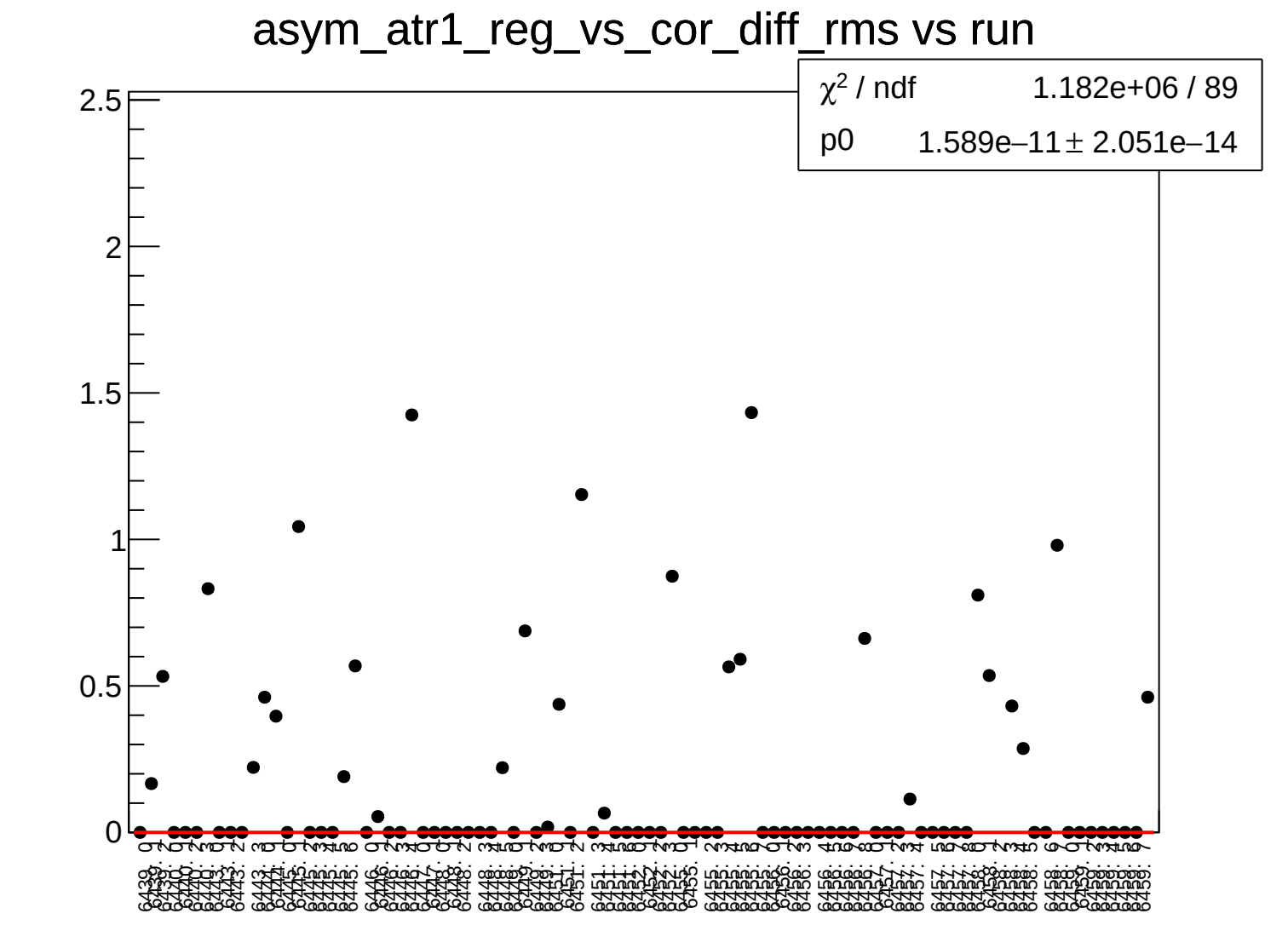

asym_atr1_mean vs run
×10^3
χ² / ndf 88.8 / 89
p0 2005 ± 3114
100
50
0
−50
−100
pull
Entries 90
Mean 161.7
Std Dev 0
2
1
0
−1
−2

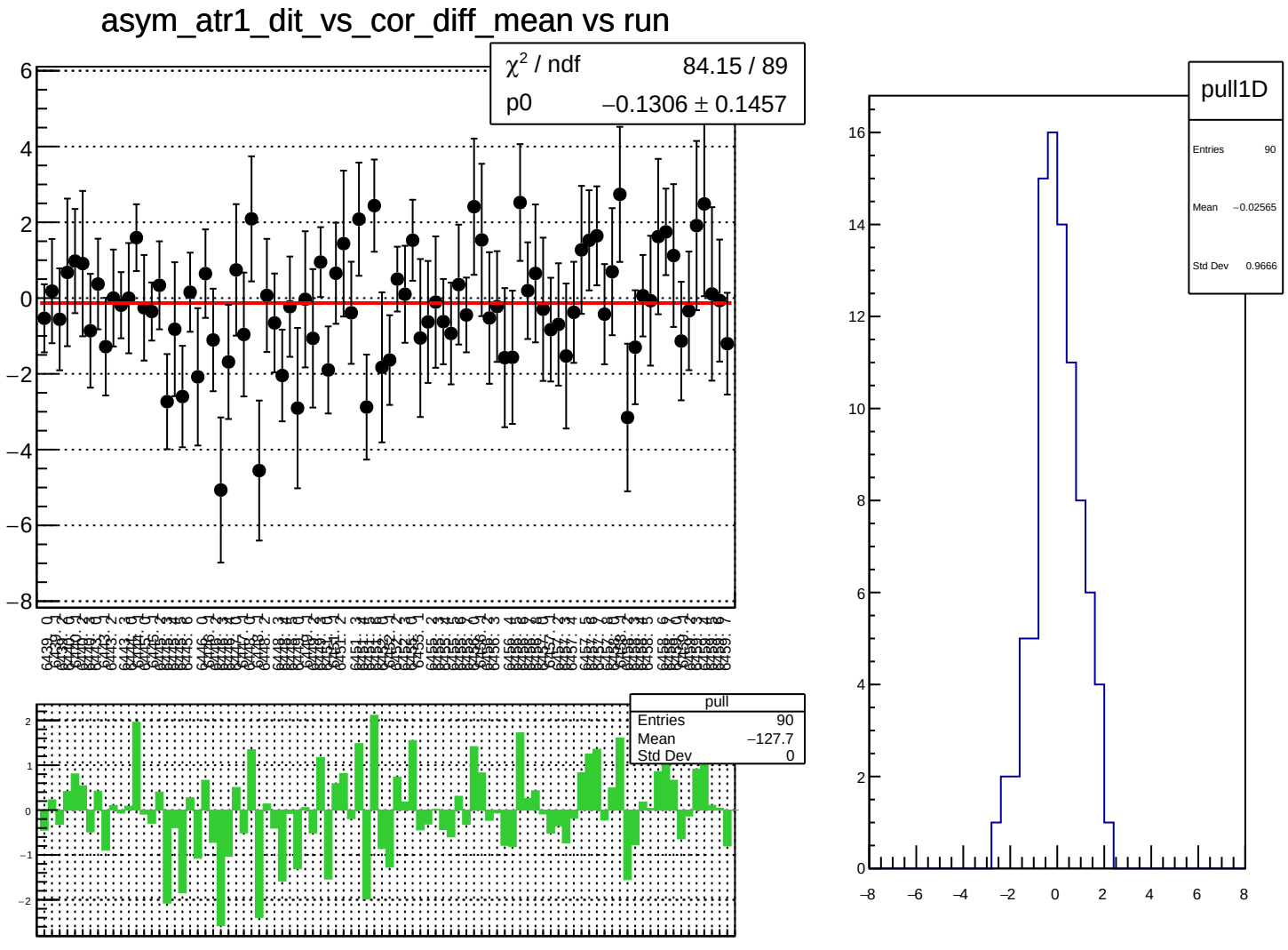

pull1D
Entries 90
Mean 0.01873
Std Dev 0.9931
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

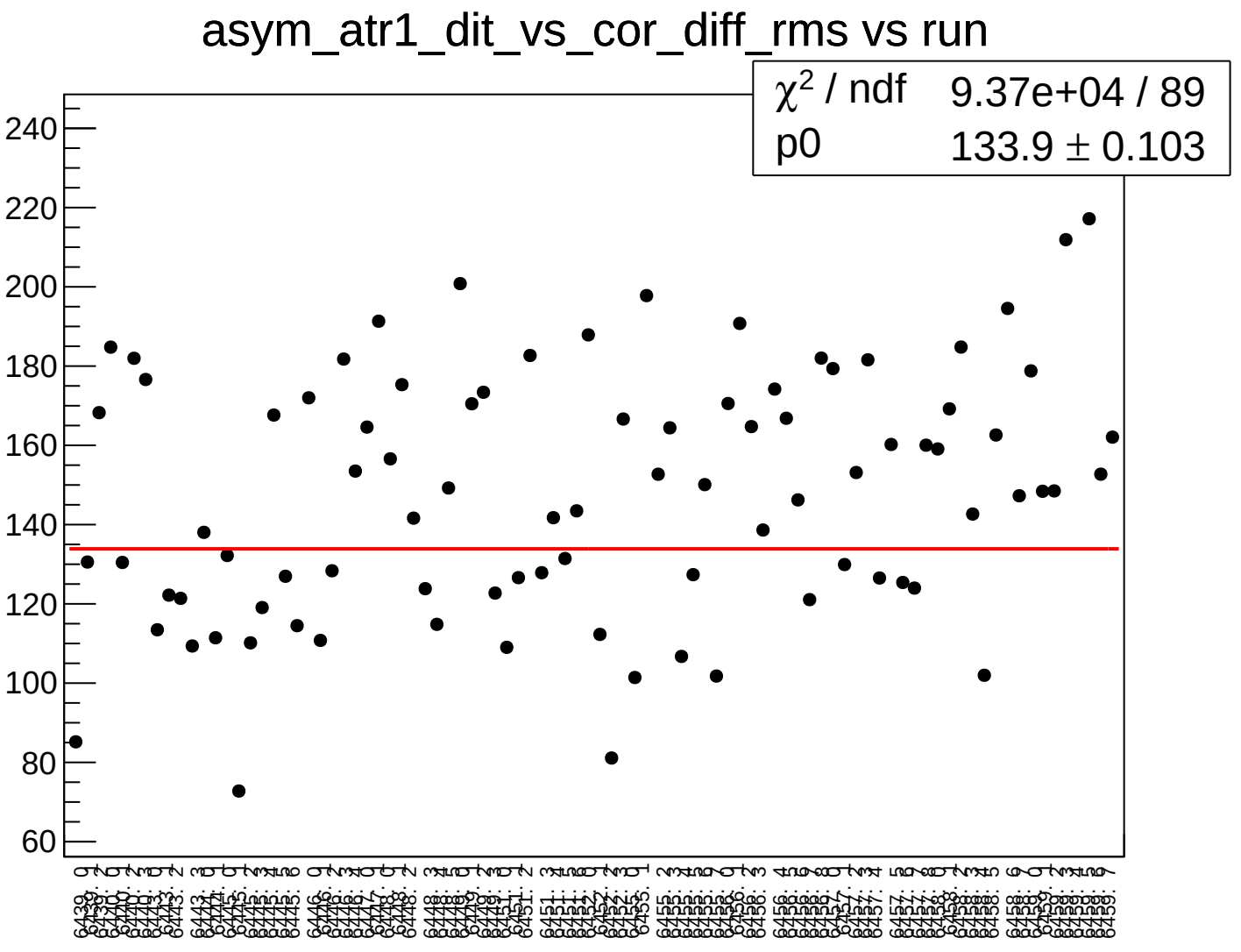

asym_atr1_rms vs run
χ^2 / ndf 294 / 89
p0 2939 ± 2.202
3050
3000
2950
2900
2850

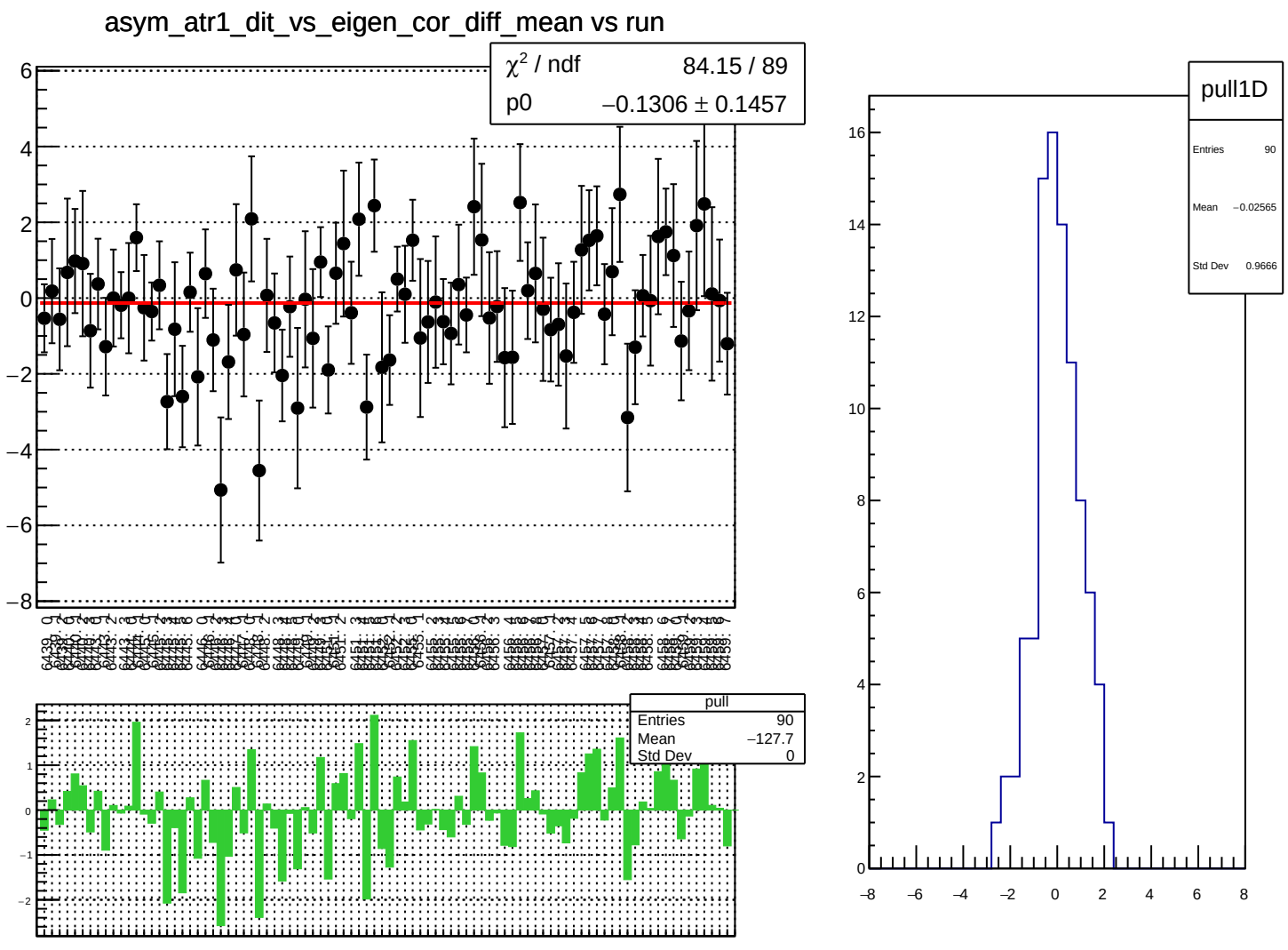

asym_atr1_reg_vs_cor_diff_mean vs run
χ² / ndf 62.63 / 89
p0 1.936e−14 ± 2.9e−14
pull
Entries 90
Mean 42.58
Std Dev 42.54

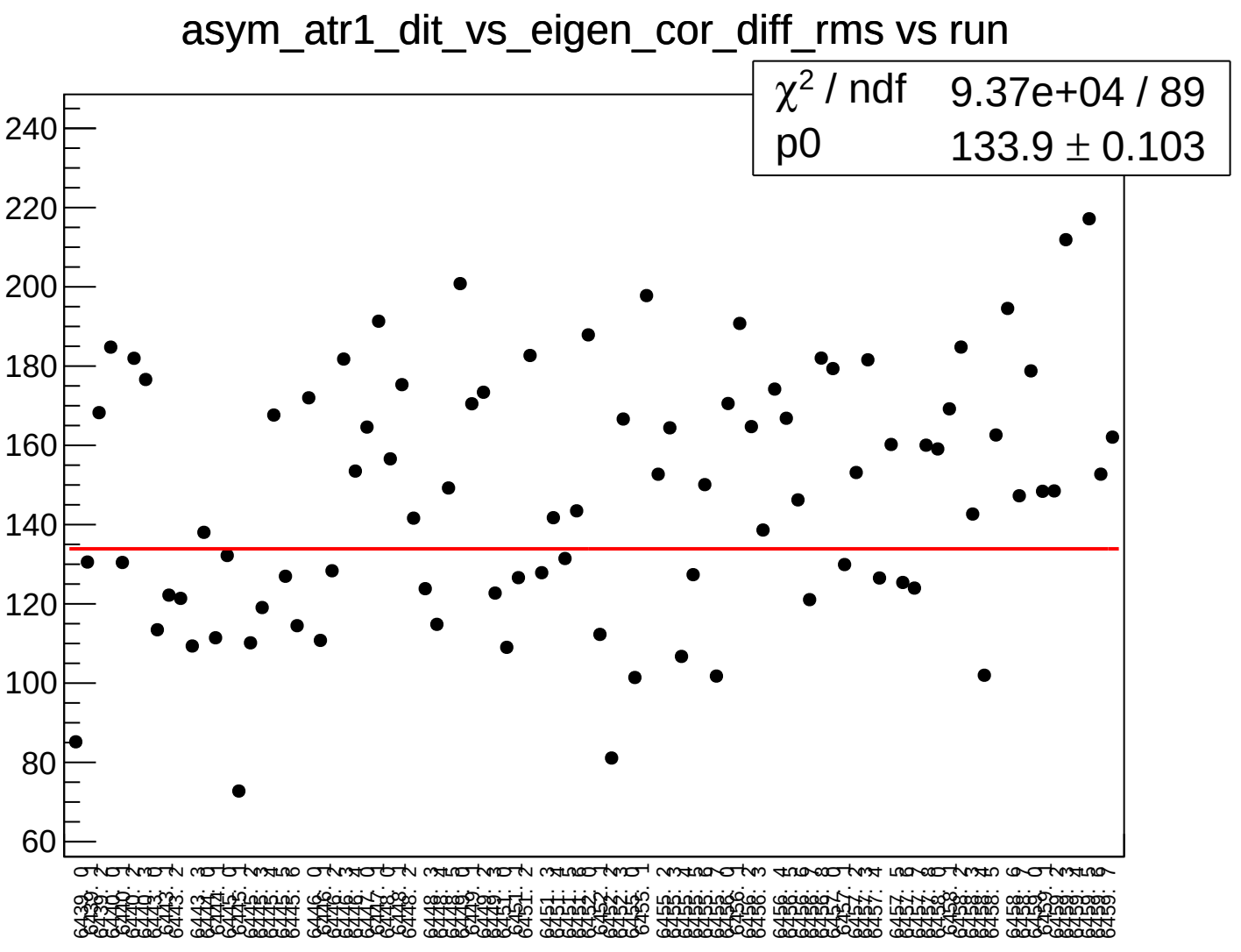

pull1D
Entries 90
Mean 0.02419
Std Dev 0.8339

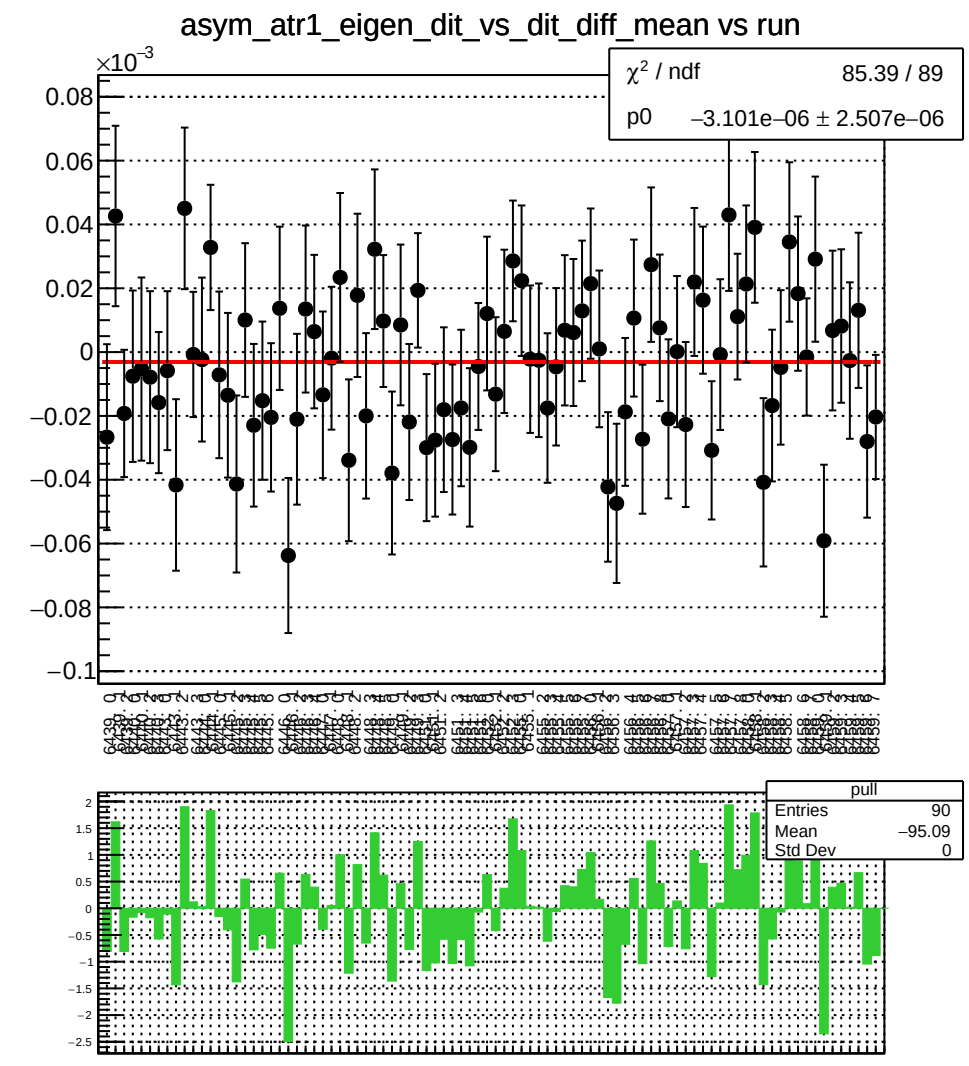

asym_atr1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.182e+06 / 89
p0 1.589e−11 ± 2.051e−14
2.5
2
1.5
1
0.5
0

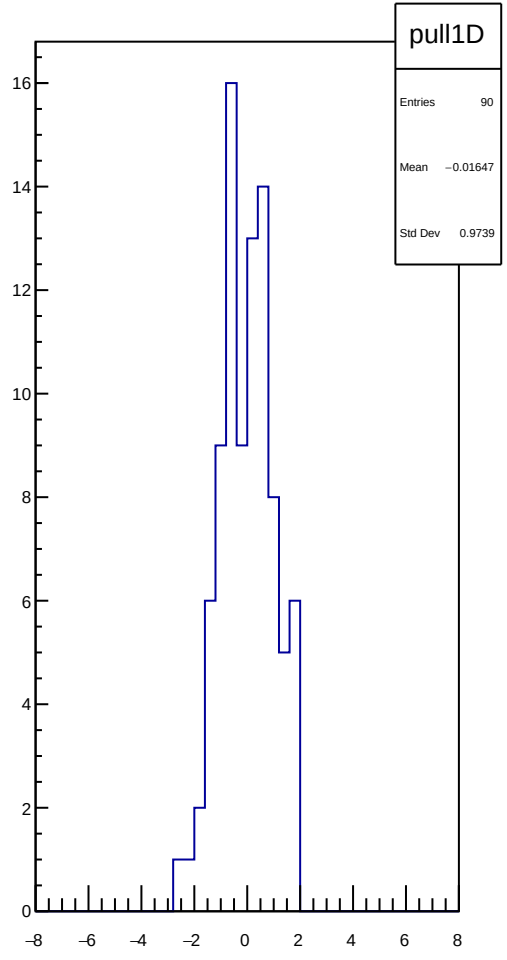

asym_atr1_dit_vs_cor_diff_mean vs run
χ² / ndf 84.15 / 89
p0 −0.1306 ± 0.1457
pull
Entries 90
Mean −127.7
Std Dev 0
pull1D
Entries 90
Mean −0.02565
Std Dev 0.9666

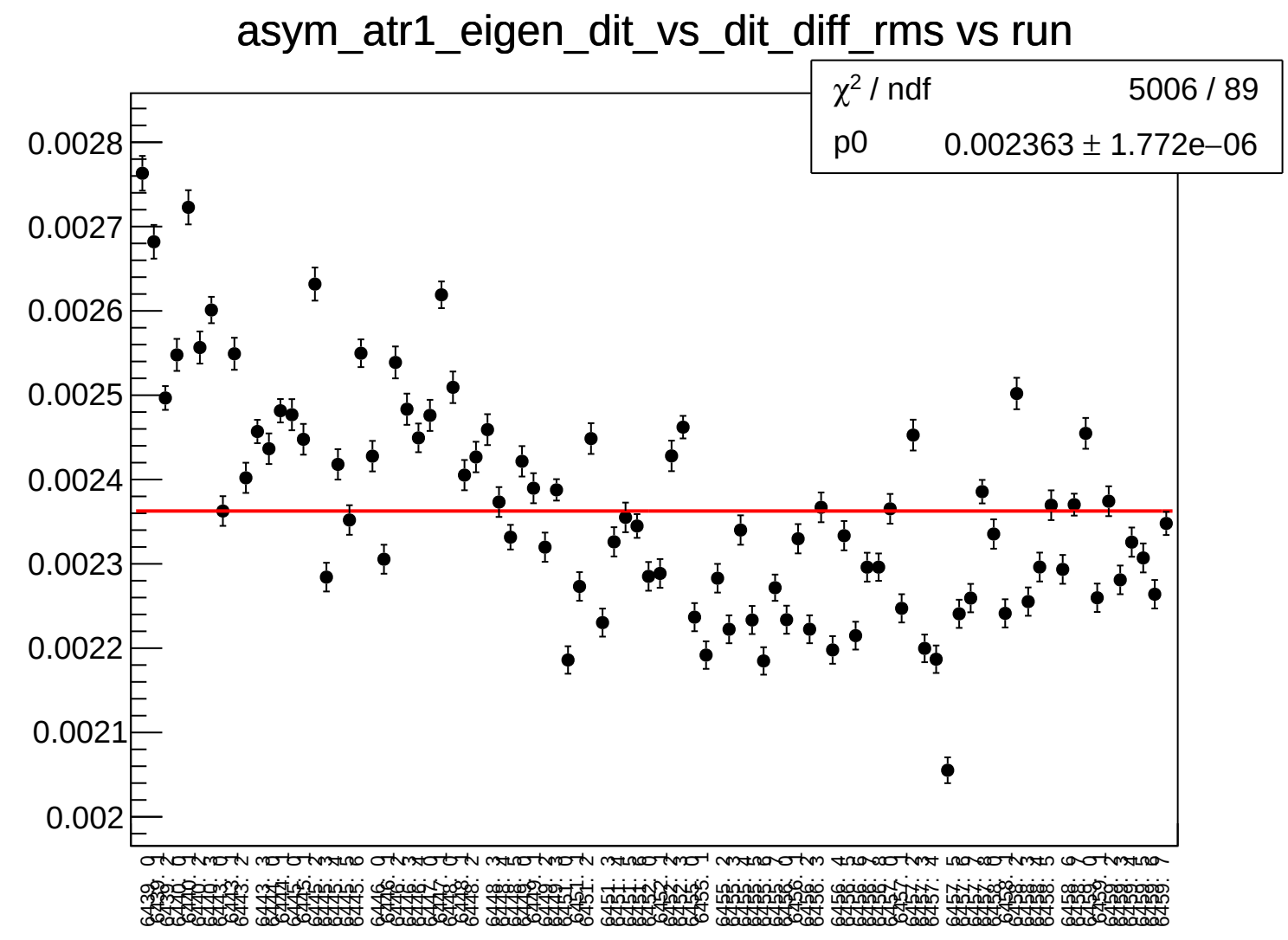

asym_atr1_dit_vs_cor_diff_rms vs run
χ² / ndf 9.37e+04 / 89
p0 133.9 ± 0.103
240
220
200
180
160
140
120
100
80
60

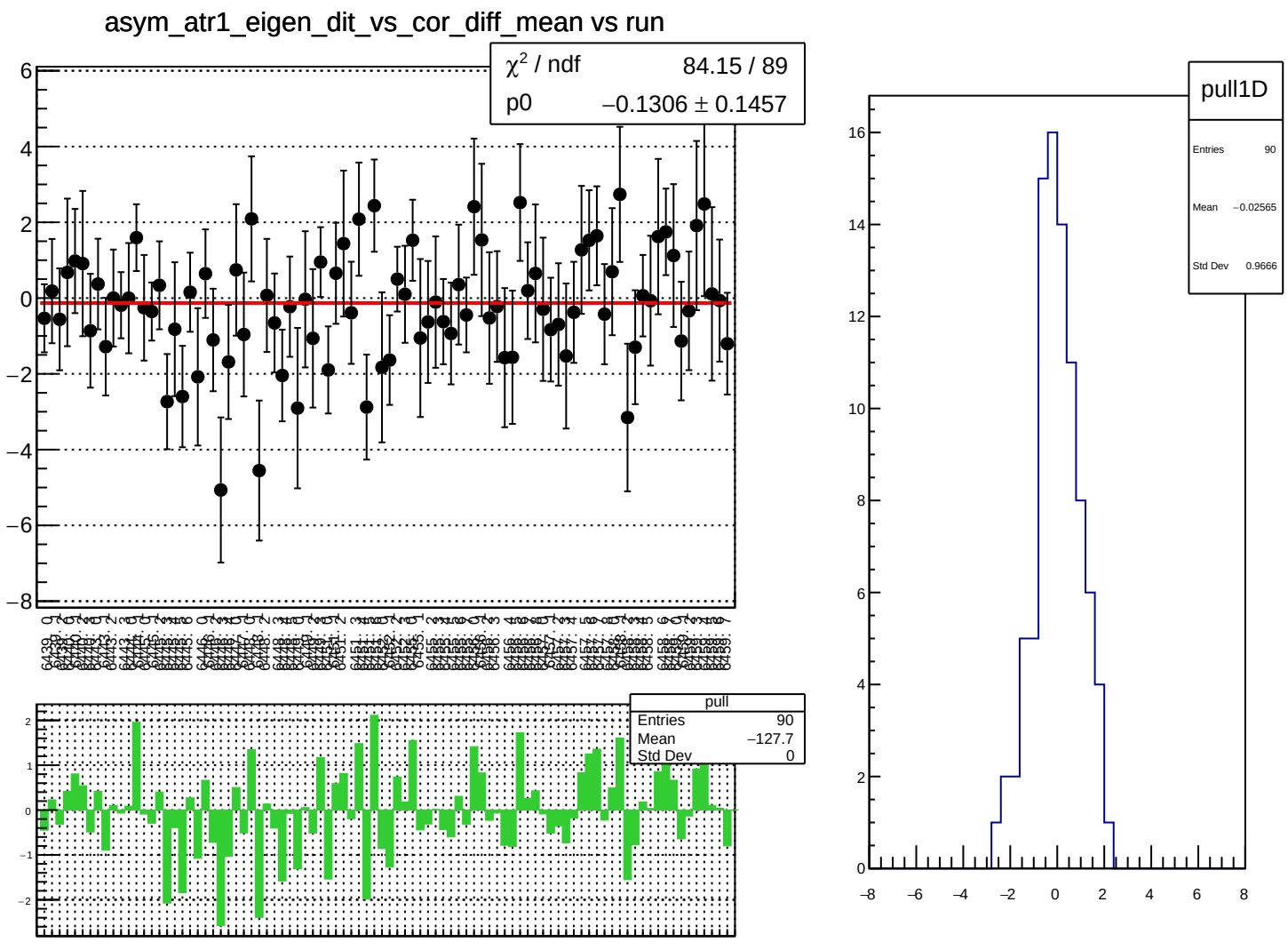

asym_atr1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.15 / 89
p0 −0.1306 ± 0.1457
pull
Entries 90
Mean −127.7
Std Dev 0
pull1D
Entries 90
Mean −0.02565
Std Dev 0.9666

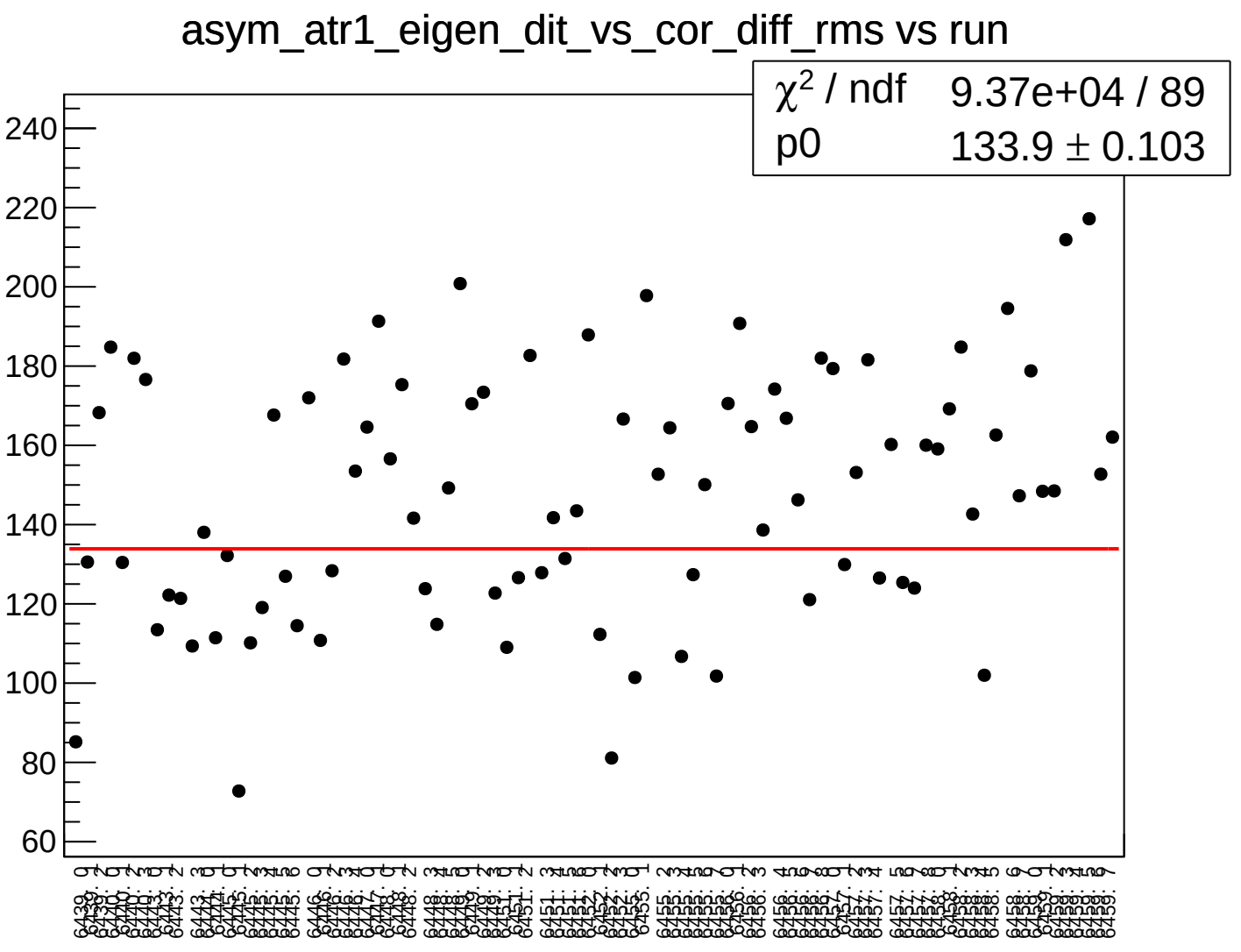

asym_atr1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.37e+04 / 89
p0 133.9 ± 0.103
240
220
200
180
160
140
120
100
80
60

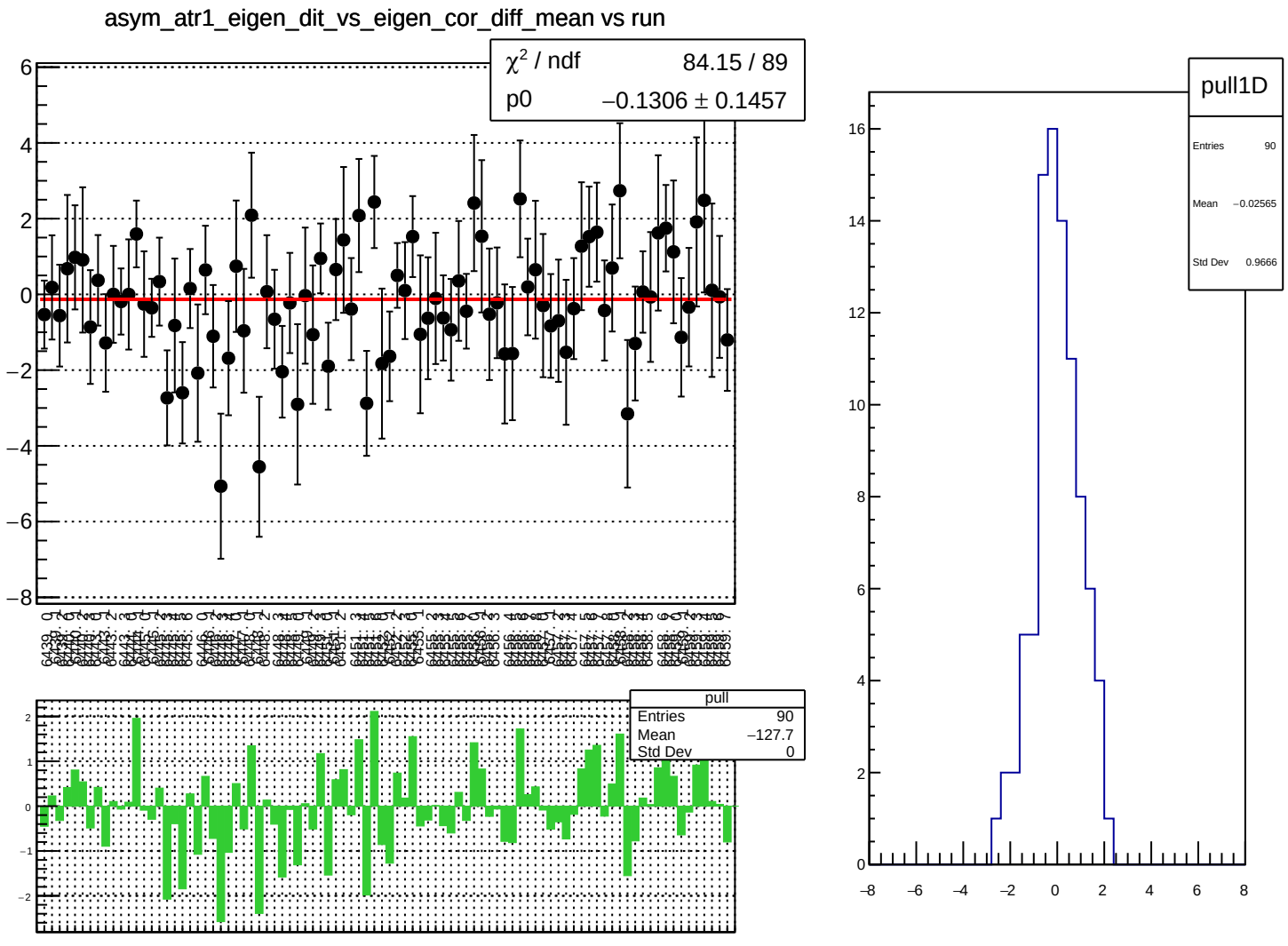

asym_atr1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.39 / 89
p0 −3.101e−06 ± 2.507e−06
pull
Entries 90
Mean −95.09
Std Dev 0

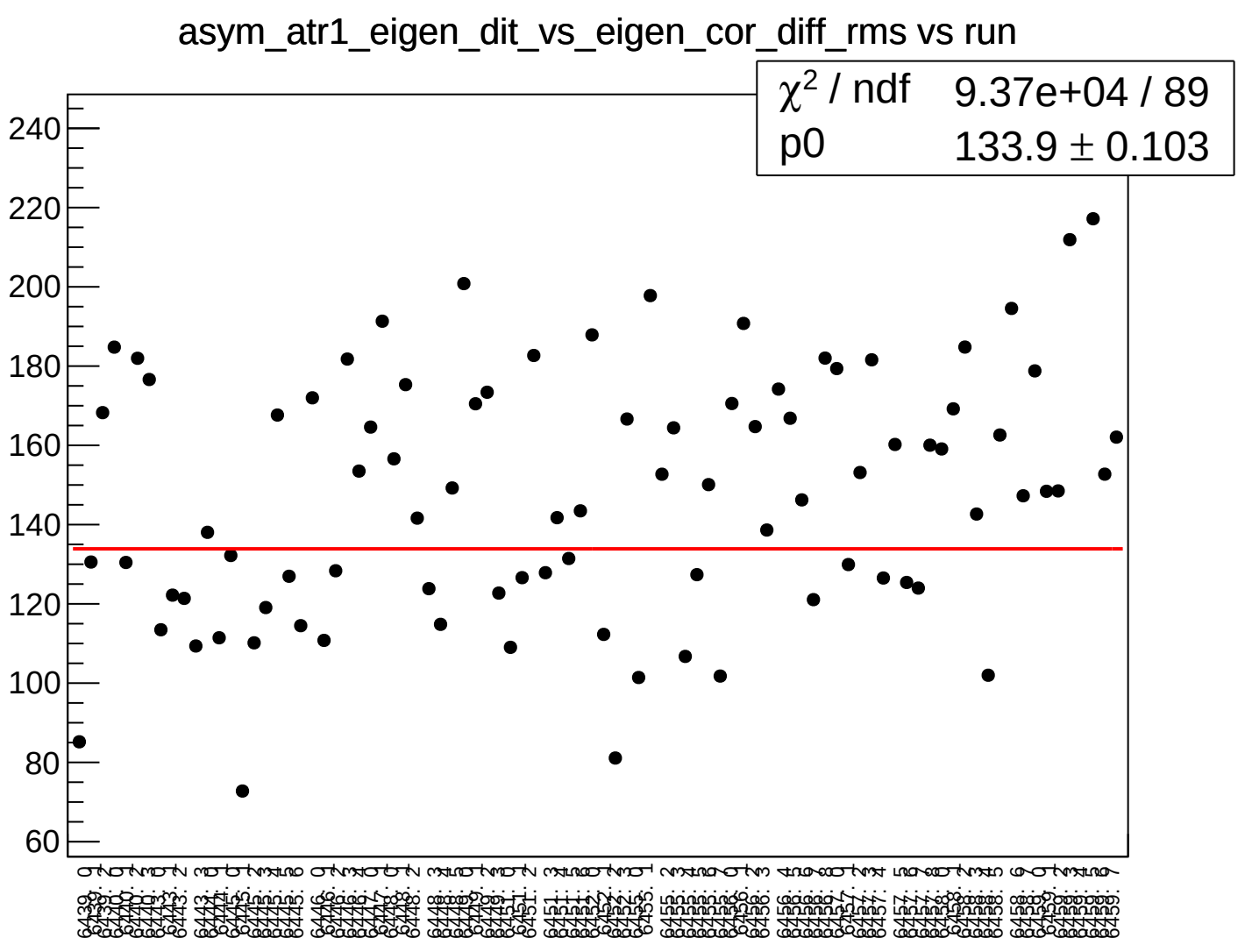

pull1D
Entries 90
Mean −0.01647
Std Dev 0.9739

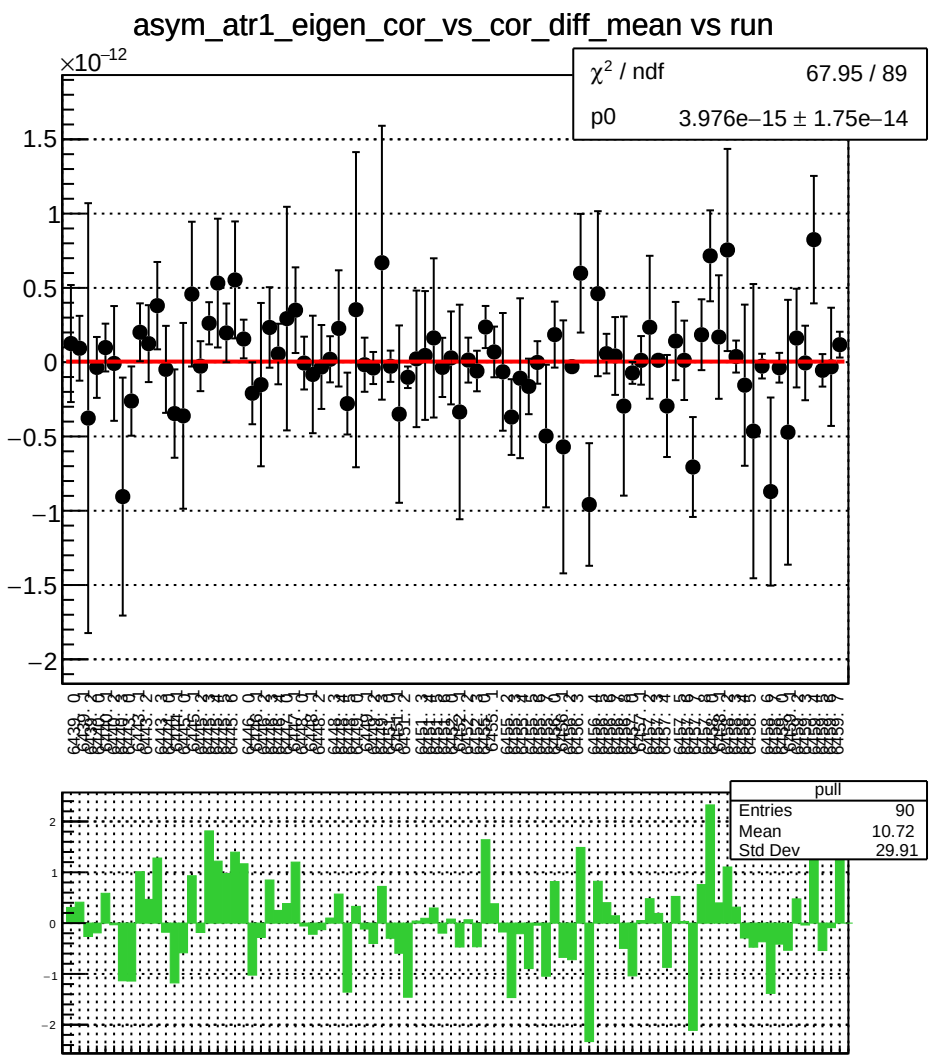

asym_atr1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5006 / 89
p0 0.002363 ± 1.772e−06
0.0028
0.0027
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021
0.002

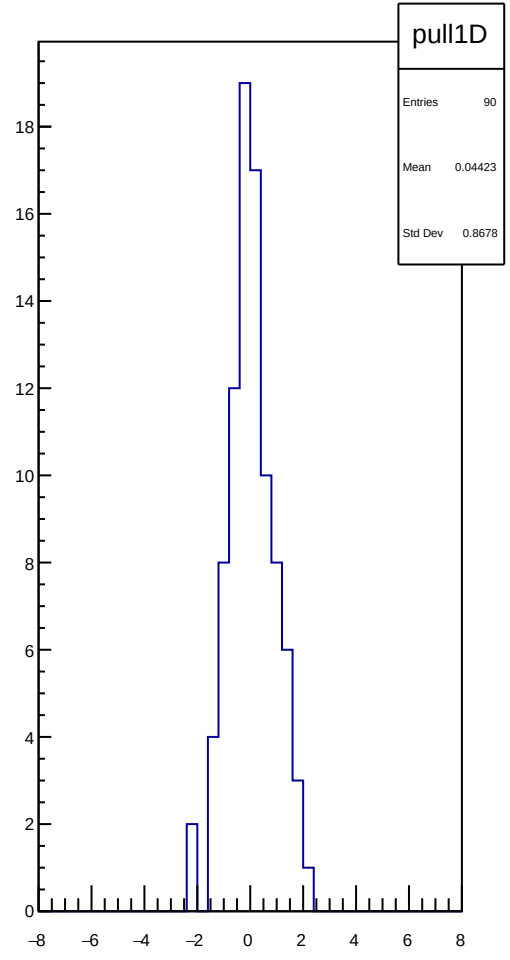

asym_atr1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.15 / 89
p0 −0.1306 ± 0.1457
pull
Entries 90
Mean −127.7
Std Dev 0
pull1D
Entries 90
Mean −0.02565
Std Dev 0.9666

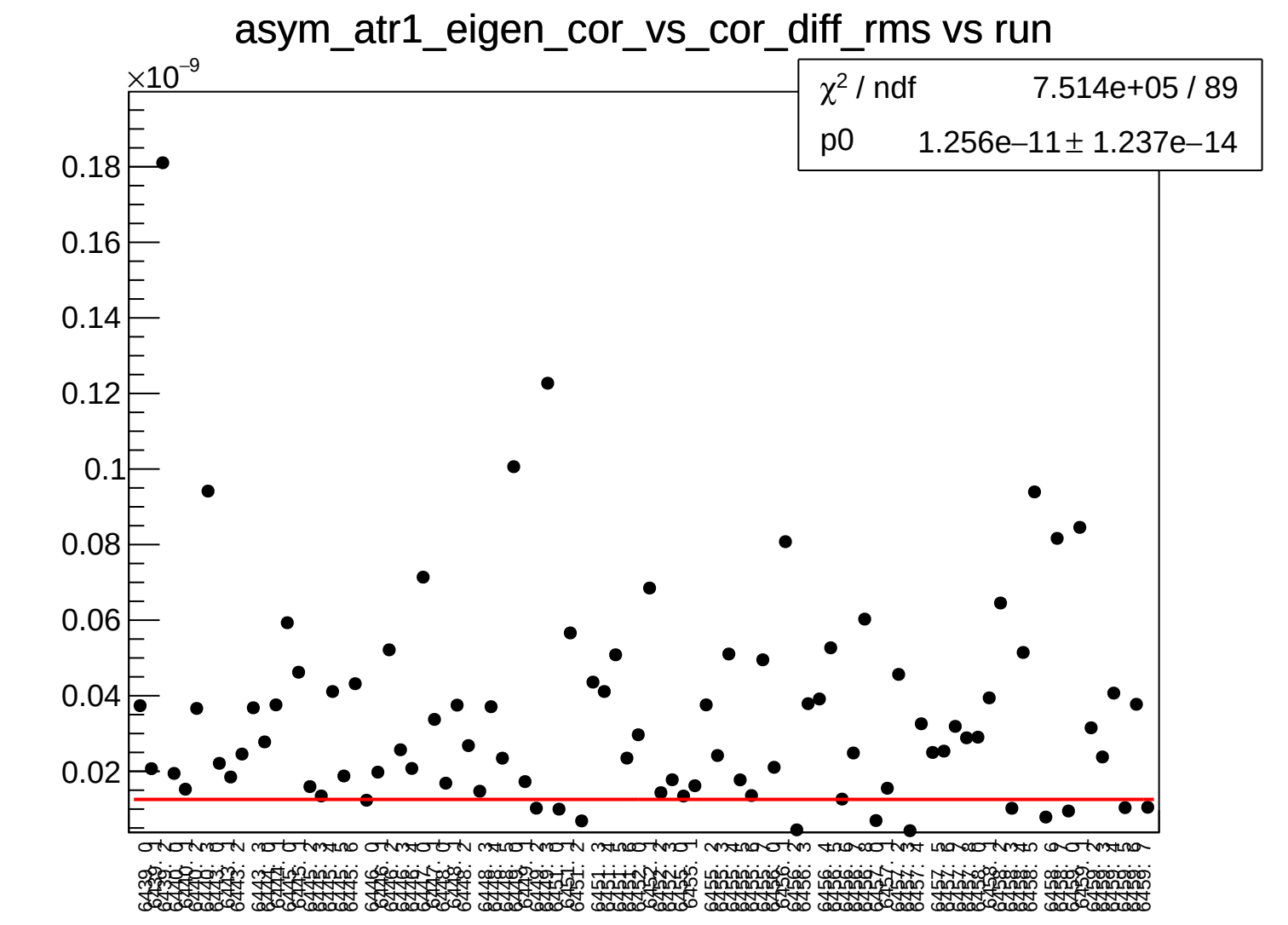

asym_atr1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.37e+04 / 89
p0 133.9 ± 0.103
240
220
200
180
160
140
120
100
80
60

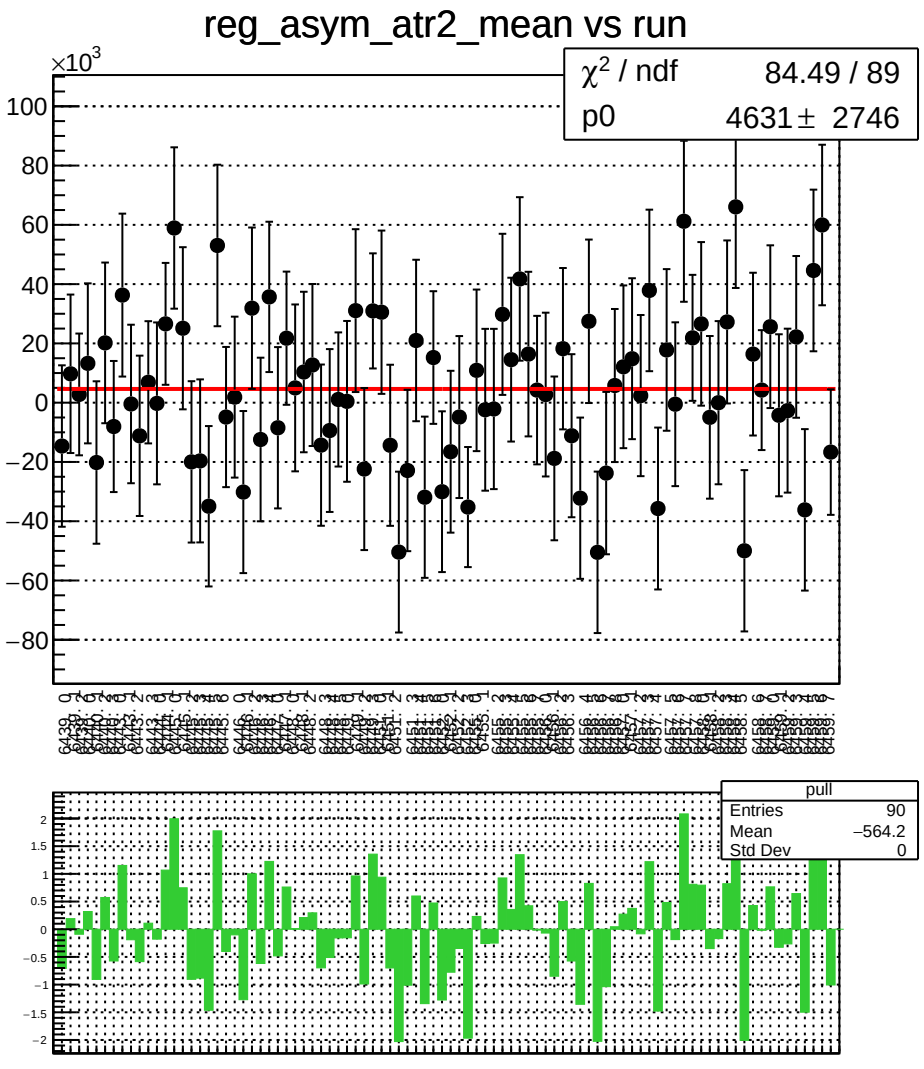

asym_atr1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.15 / 89
p0 −0.1306 ± 0.1457
pull
Entries 90
Mean −127.7
Std Dev 0
pull1D
Entries 90
Mean −0.02565
Std Dev 0.9666

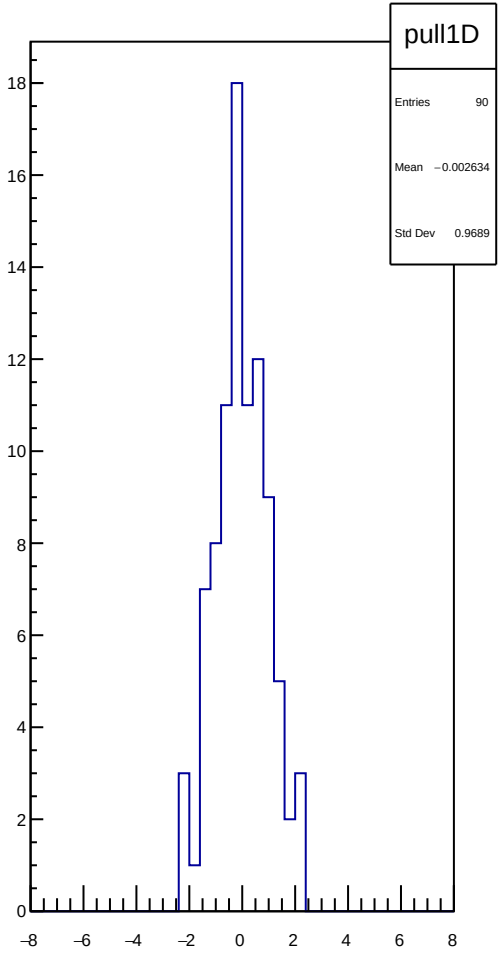

asym_atr1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.37e+04 / 89
p0 133.9 ± 0.103
240
220
200
180
160
140
120
100
80
60

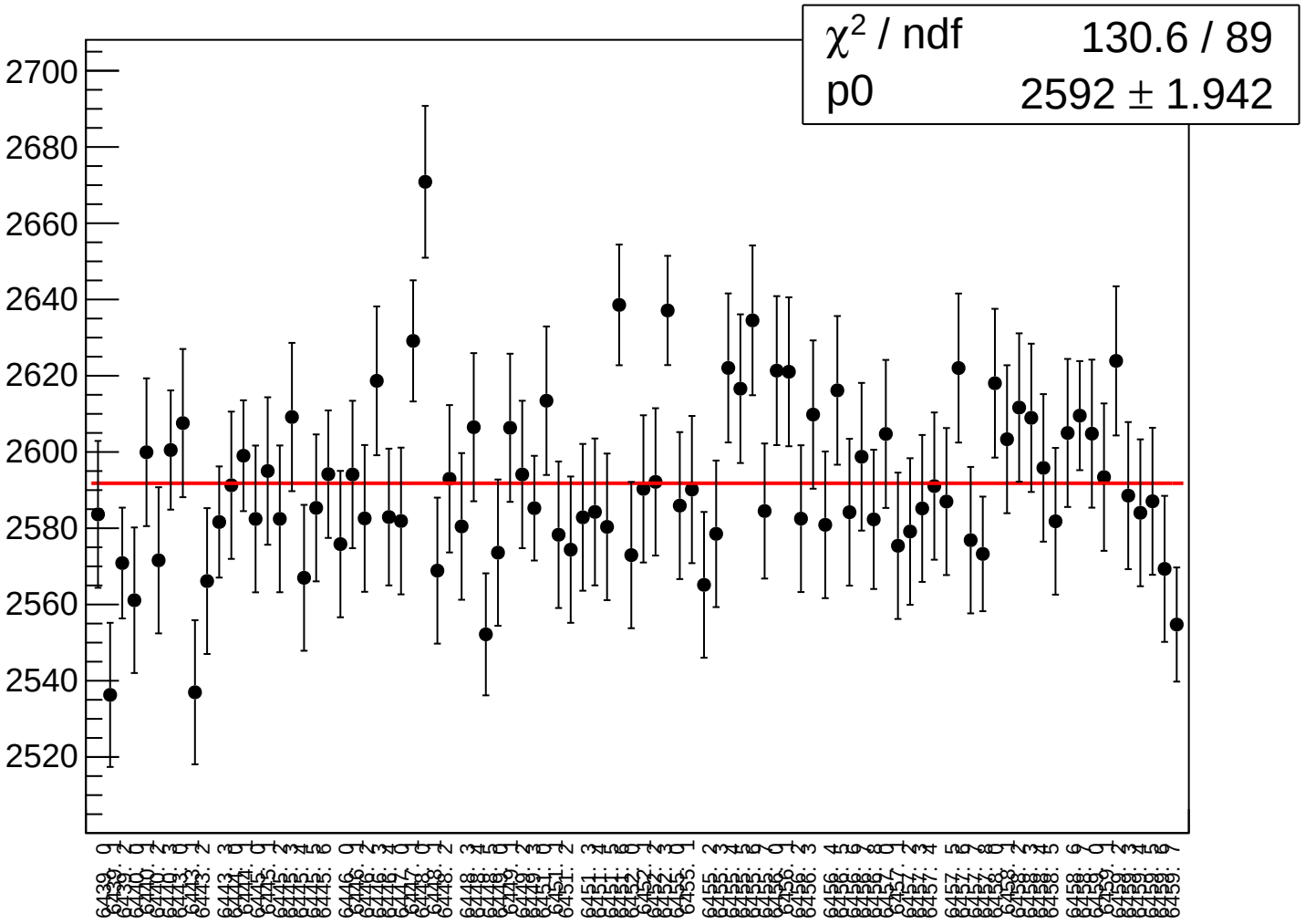

asym_atr1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 67.95 / 89
p0 3.976e−15 ± 1.75e−14
pull
Entries 90
Mean 10.72
Std Dev 29.91

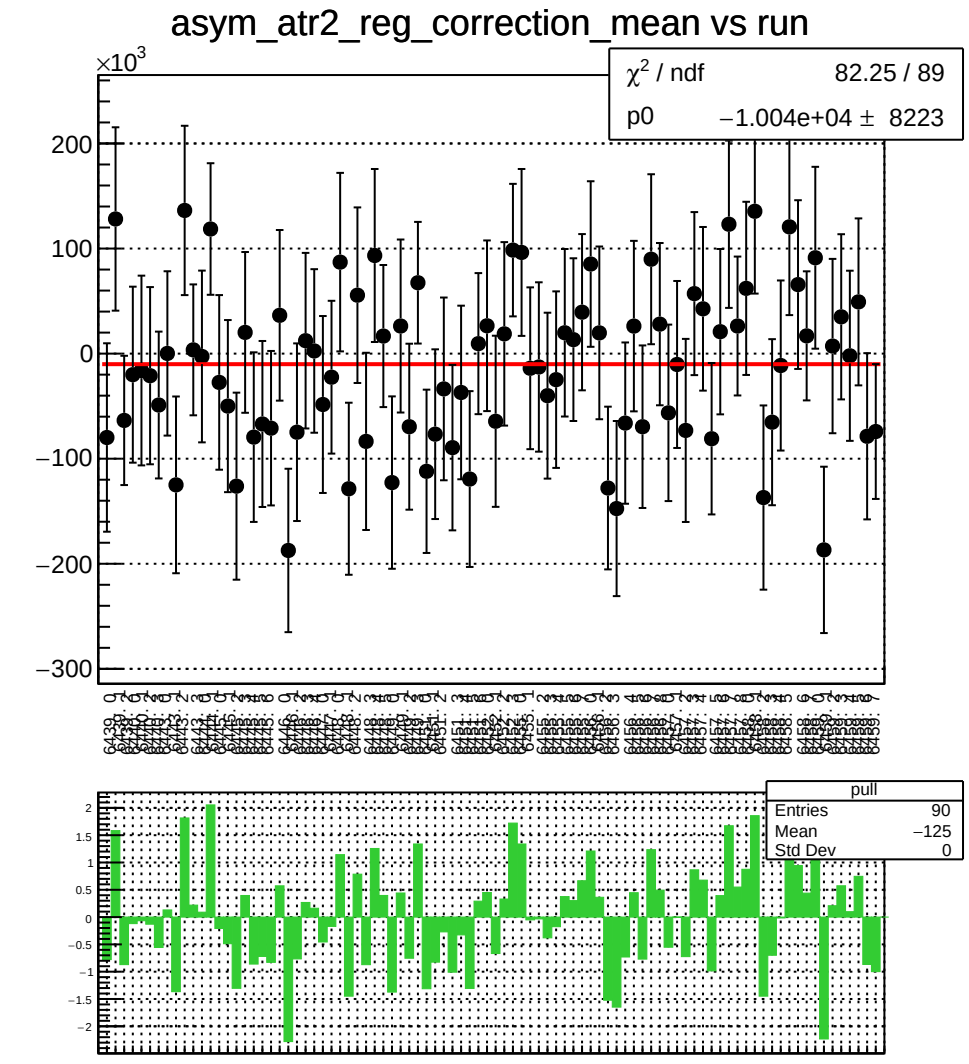

pull1D
Entries 90
Mean 0.04423
Std Dev 0.8678

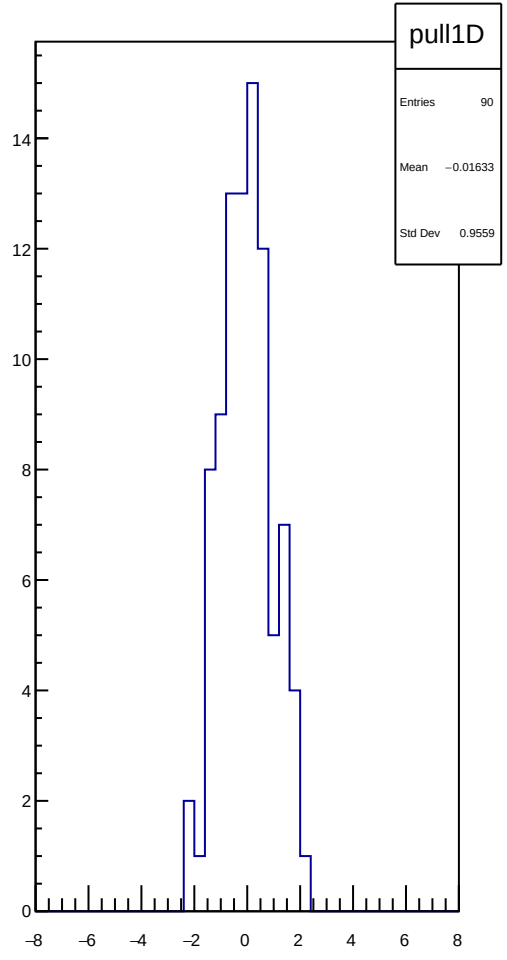

asym_atr1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.514e+05 / 89
p0 1.256e−11 ± 1.237e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

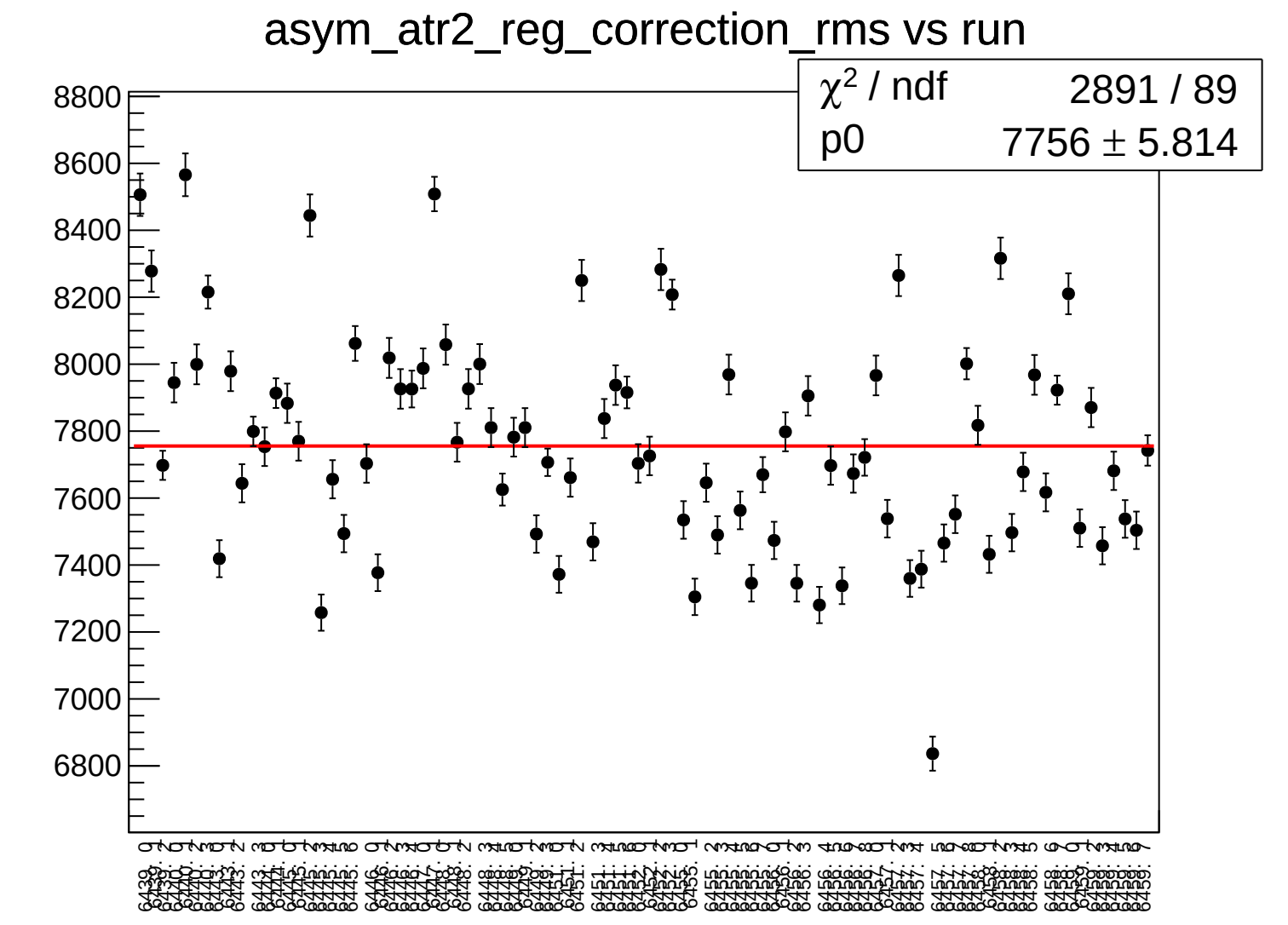

reg_asym_atr2_mean vs run
χ^2 / ndf 84.49 / 89
p0 4631 ± 2746
×10^3
pull
Entries 90
Mean −564.2
Std Dev 0

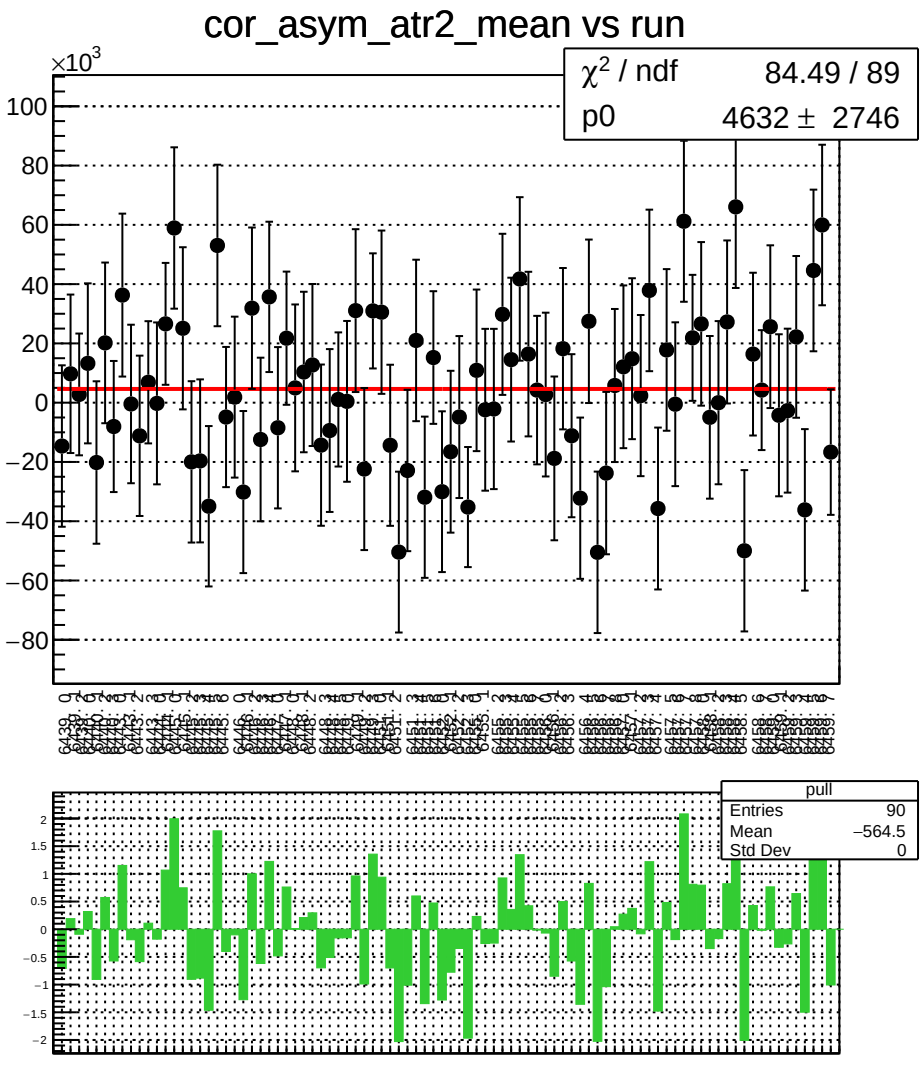

pull1D
Entries 90
Mean −0.002634
Std Dev 0.9689

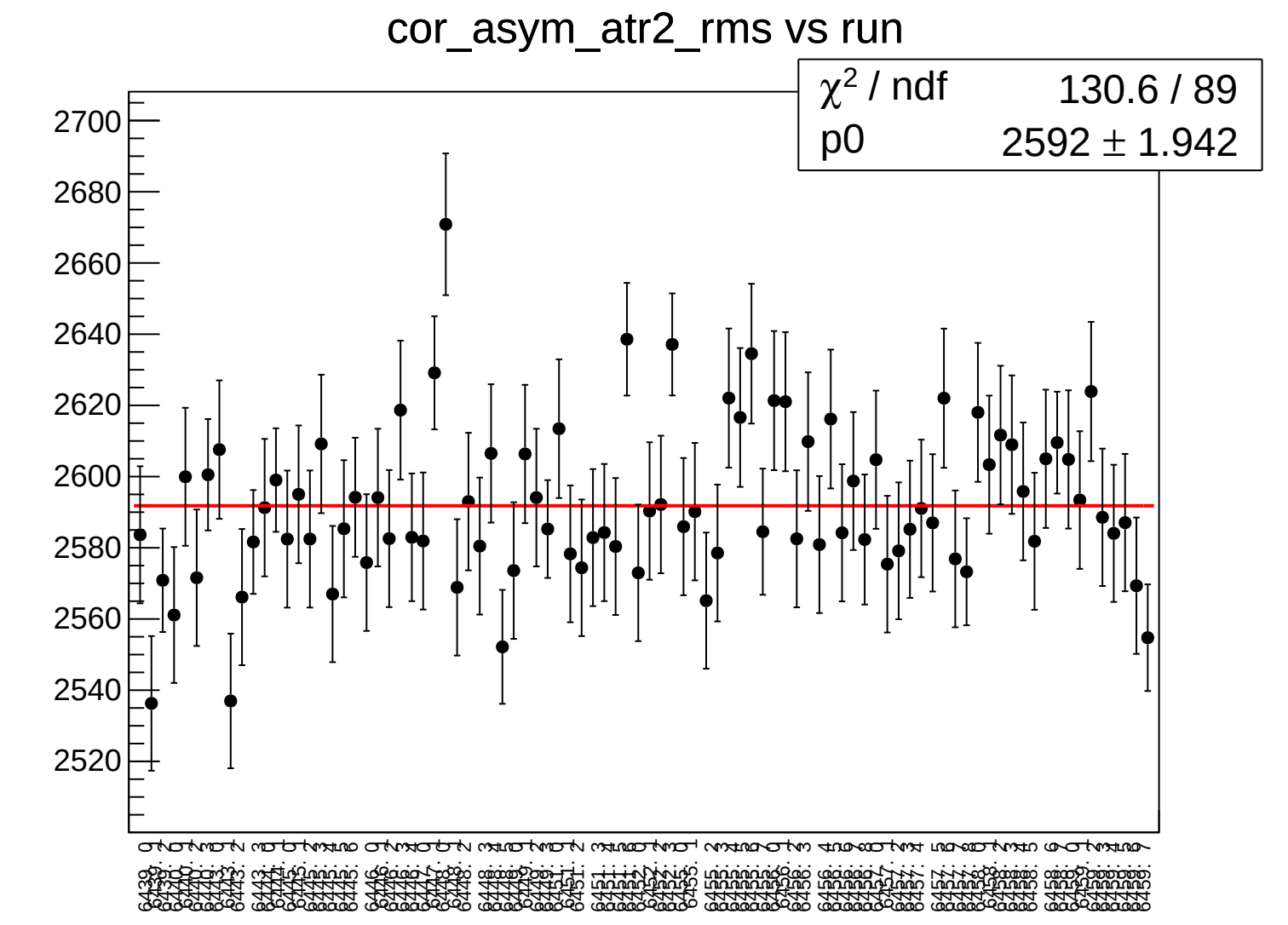

reg_asym_atr2_rms vs run
χ² / ndf 130.6 / 89
p0 2592 ± 1.942
2700
2680
2660
2640
2620
2600
2580
2560
2540
2520

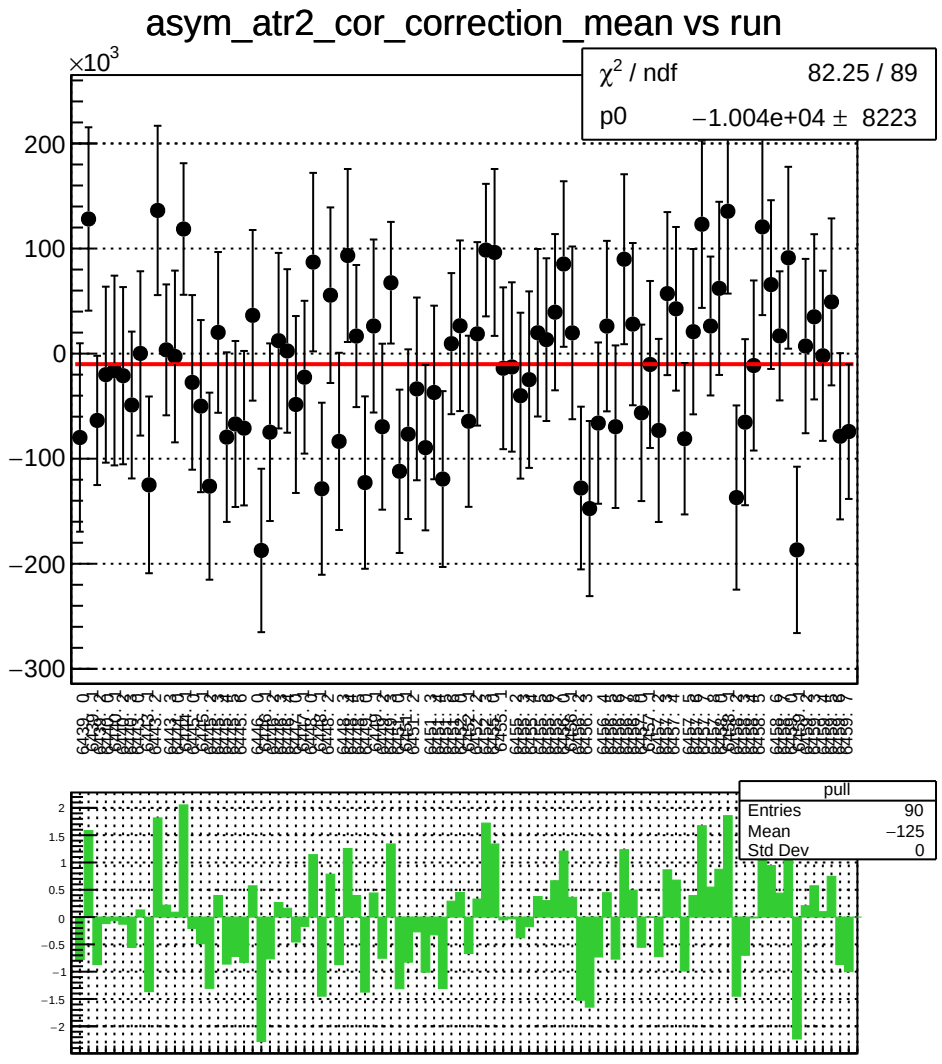

asym_atr2_reg_correction_mean vs run
×10^3
χ² / ndf 82.25 / 89
p0 −1.004e+04 ± 8223
200
100
0
−100
−200
−300
pull
Entries 90
Mean −125
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

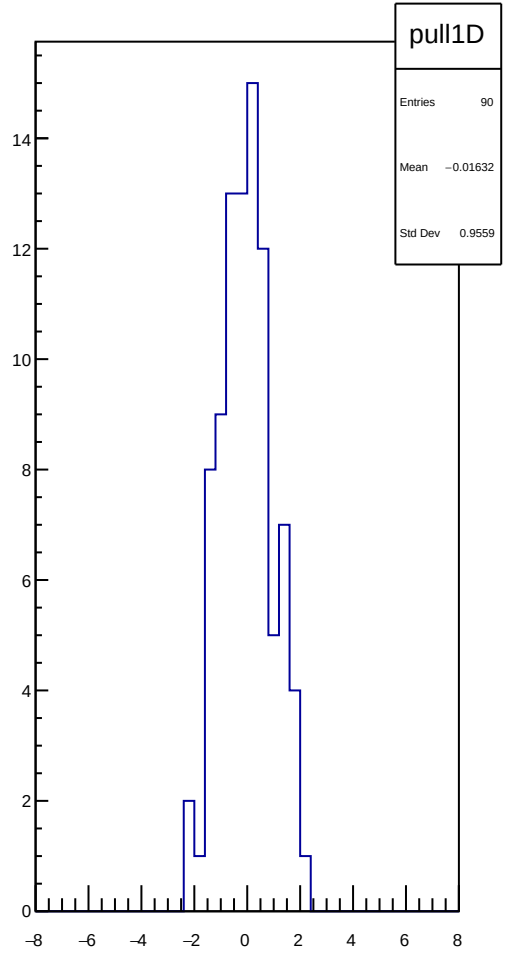

pull1D
Entries 90
Mean −0.01633
Std Dev 0.9559
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

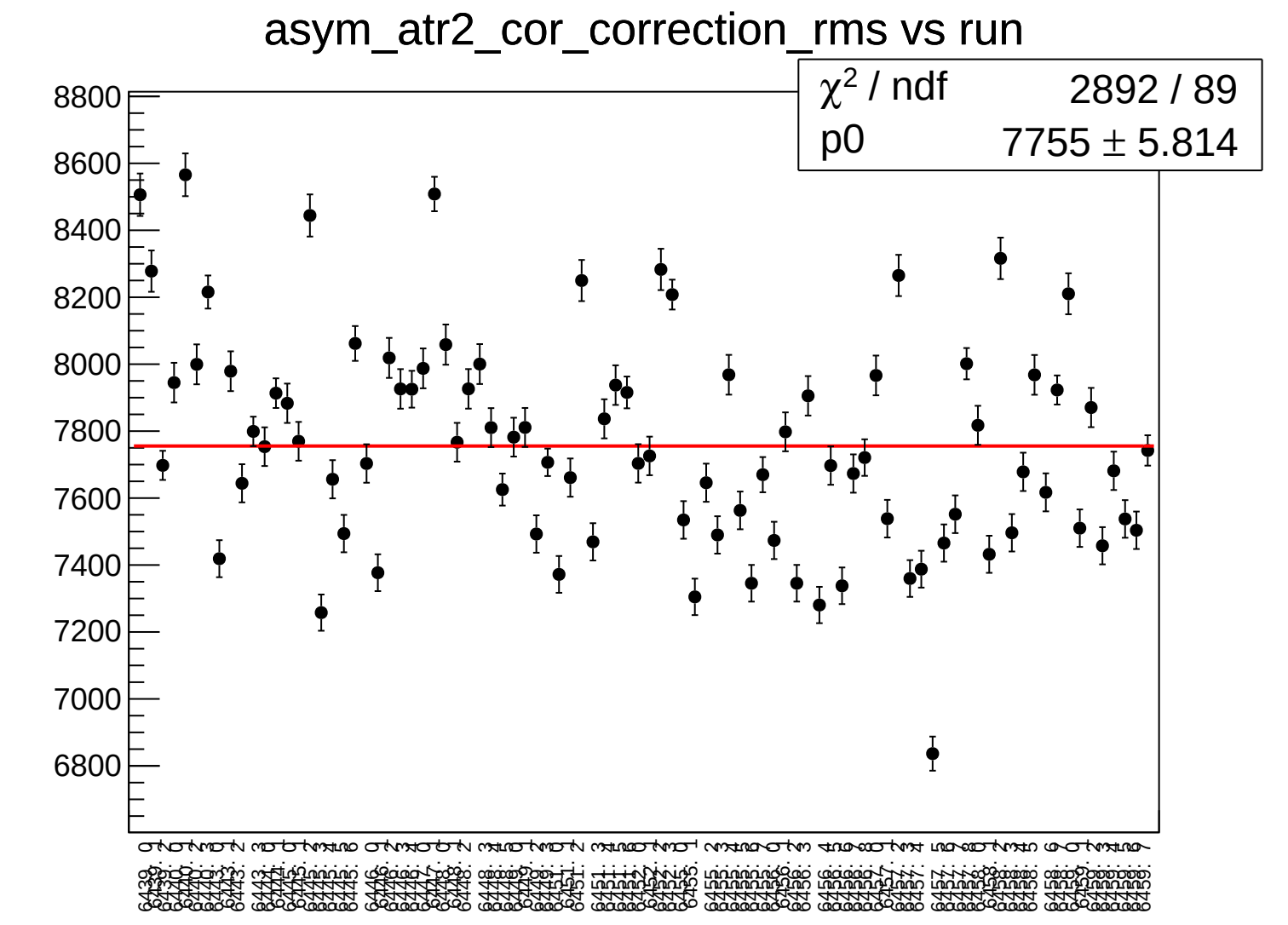

asym_atr2_reg_correction_rms vs run
χ² / ndf 2891 / 89
p0 7756 ± 5.814
8800
8600
8400
8200
8000
7800
7600
7400
7200
7000
6800

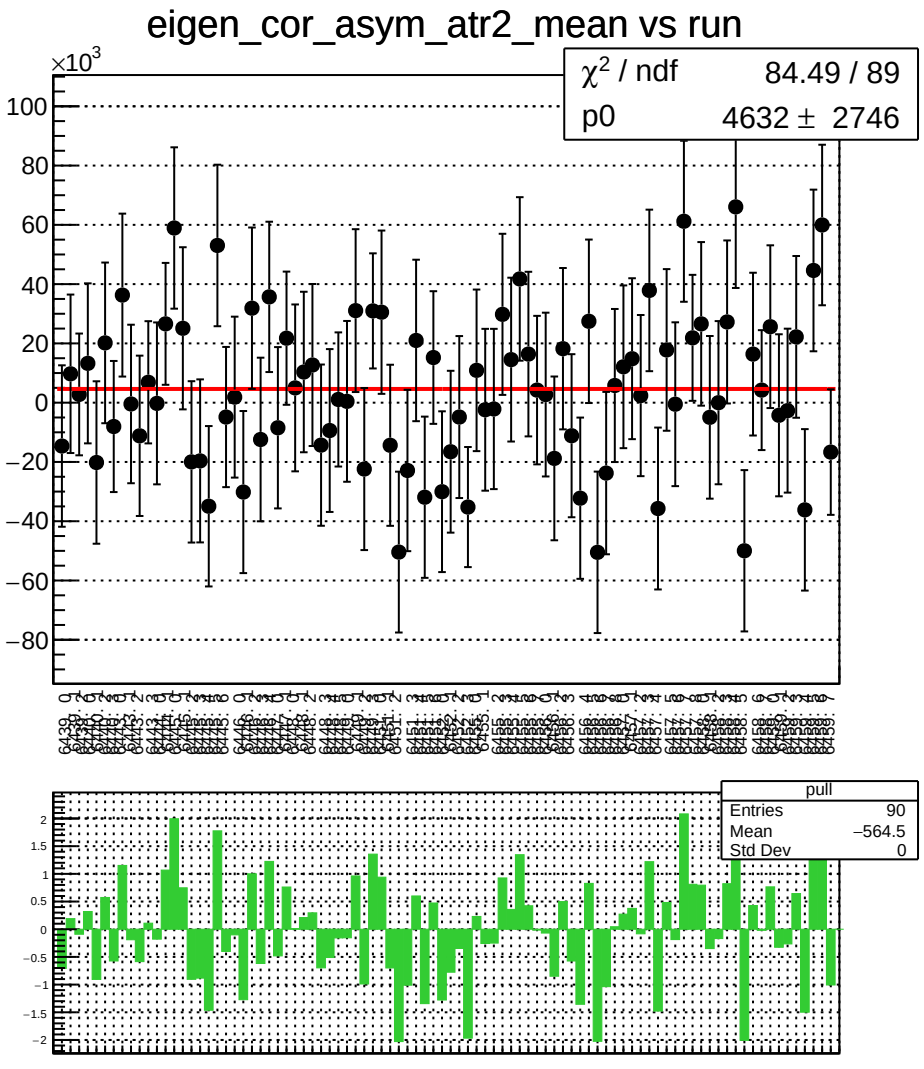

cor_asym_atr2_mean vs run
×10^3
χ² / ndf 84.49 / 89
p0 4632 ± 2746
pull
Entries 90
Mean −564.5
Std Dev 0
pull1D
Entries 90
Mean −0.002633
Std Dev 0.9689

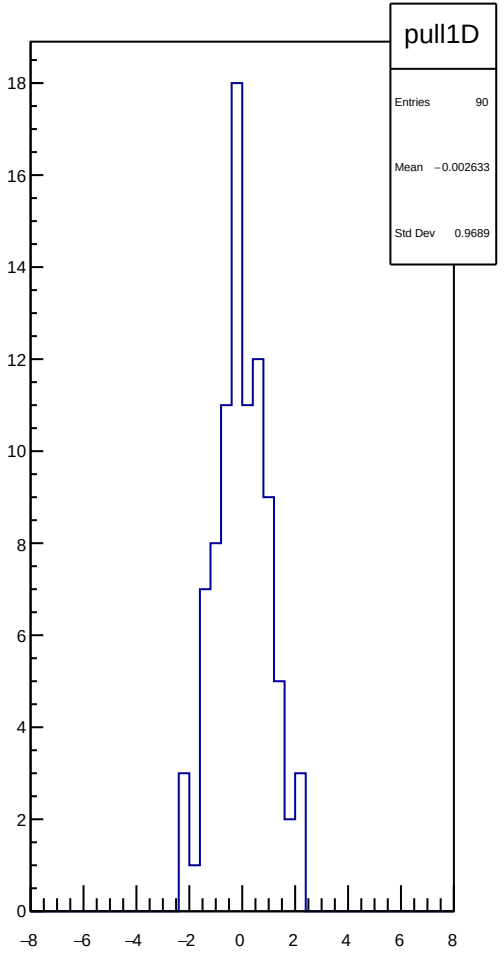

cor_asym_atr2_rms vs run
χ² / ndf 130.6 / 89
p0 2592 ± 1.942
2700
2680
2660
2640
2620
2600
2580
2560
2540
2520

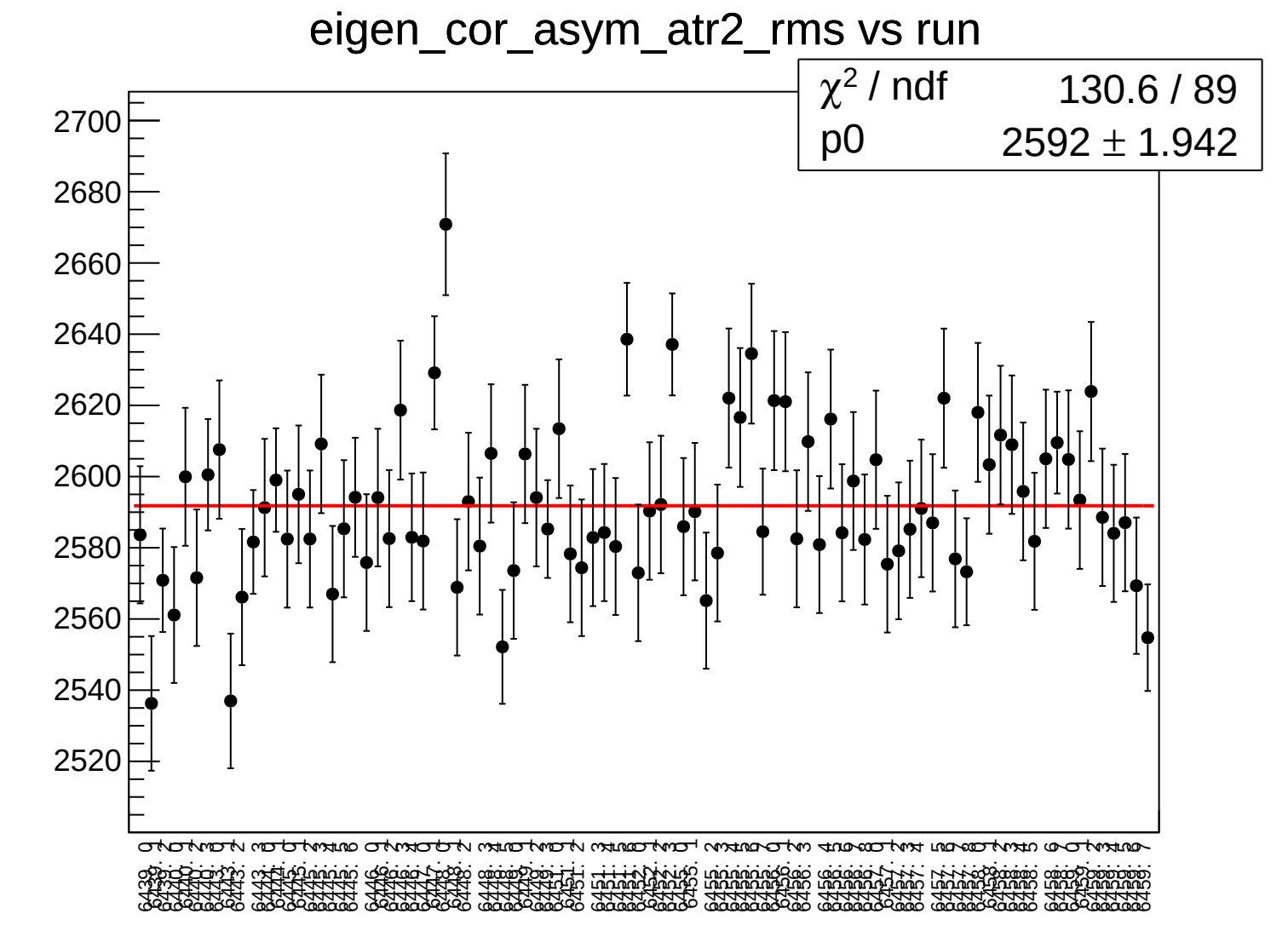

asym_atr2_cor_correction_mean vs run
×10^3
χ² / ndf 82.25 / 89
p0 −1.004e+04 ± 8223
200
100
0
−100
−200
−300
pull
Entries 90
Mean −125
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

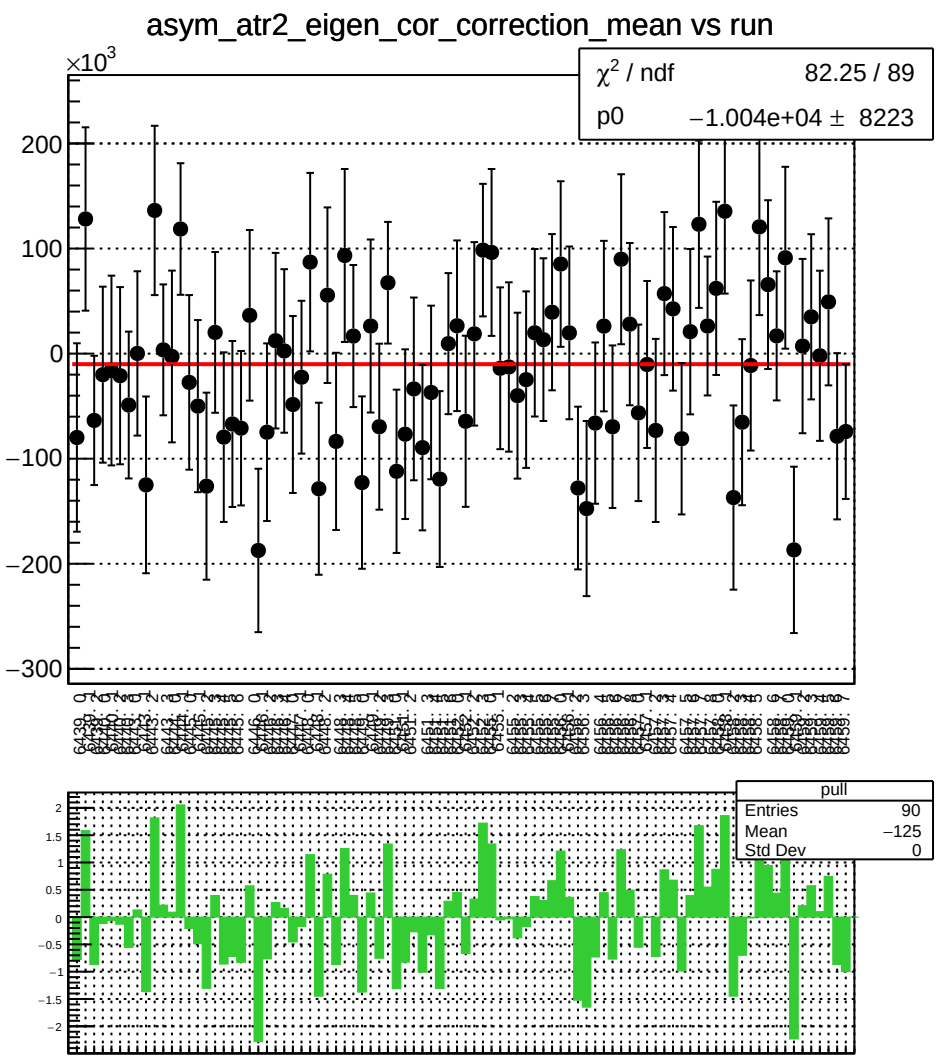

pull1D
Entries 90
Mean −0.01632
Std Dev 0.9559
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

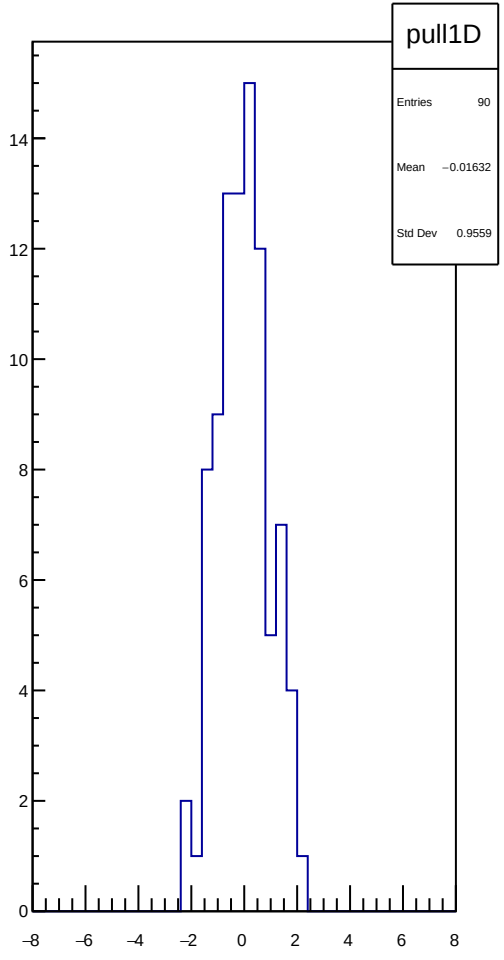

asym_atr2_cor_correction_rms vs run
χ² / ndf 2892 / 89
p0 7755 ± 5.814
8800
8600
8400
8200
8000
7800
7600
7400
7200
7000
6800

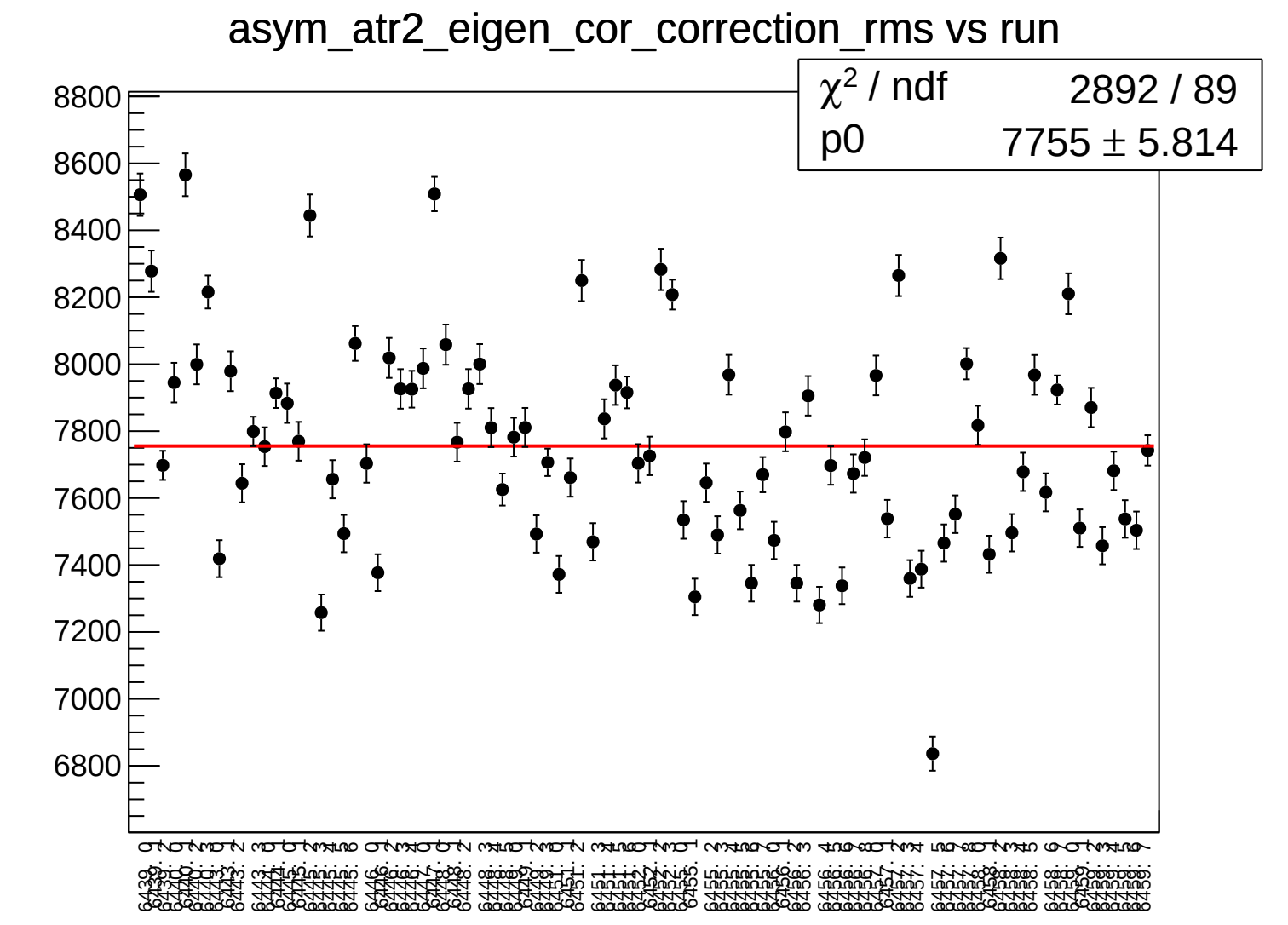

eigen_cor_asym_atr2_mean vs run
×10^3
χ² / ndf 84.49 / 89
p0 4632 ± 2746
pull
Entries 90
Mean −564.5
Std Dev 0

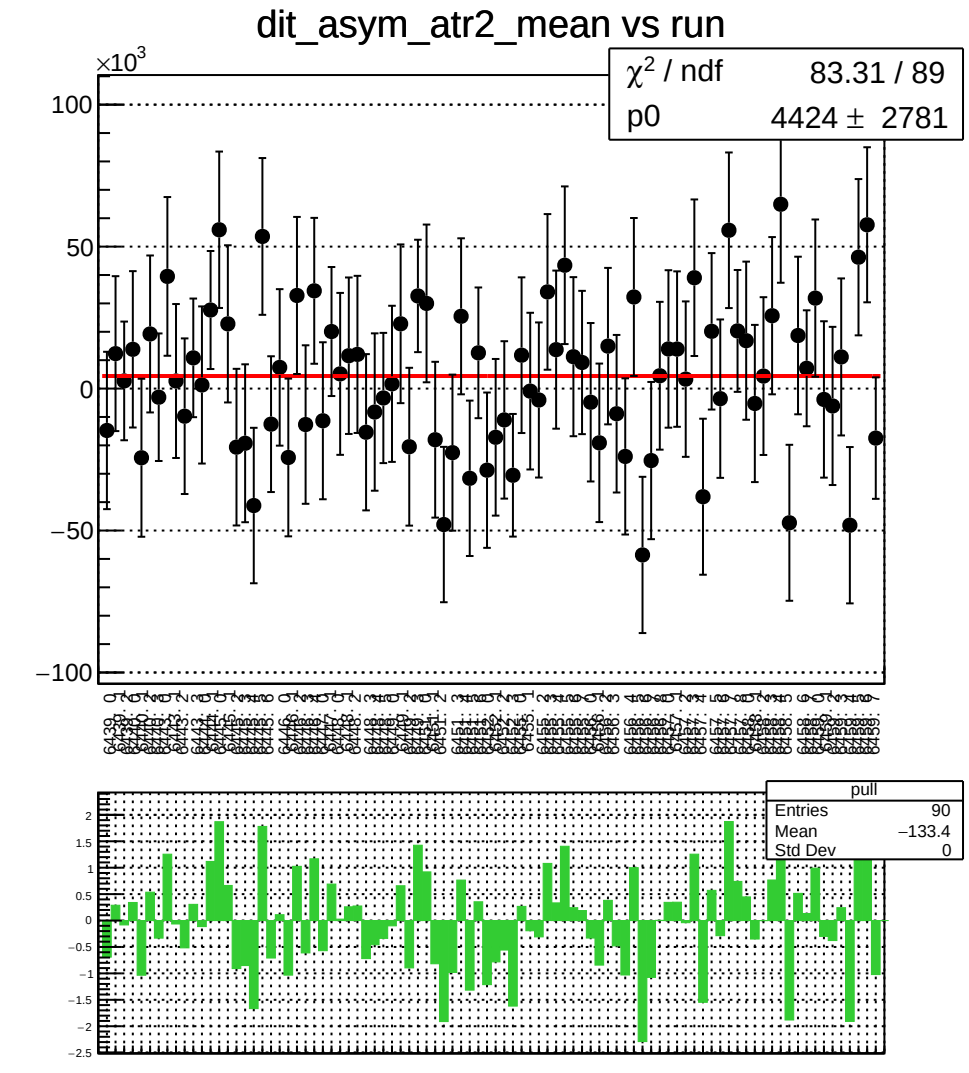

pull1D
Entries 90
Mean −0.002633
Std Dev 0.9689

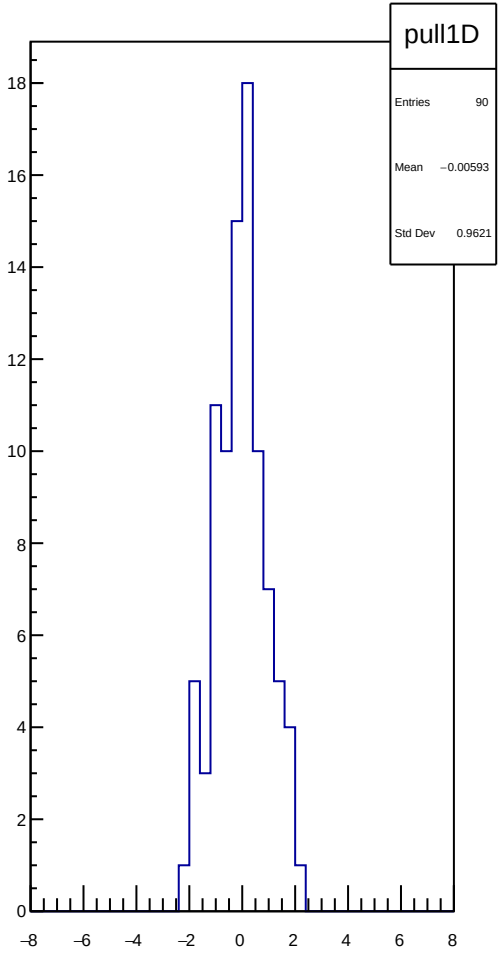

eigen_cor_asym_atr2_rms vs run
χ² / ndf 130.6 / 89
p0 2592 ± 1.942
2700
2680
2660
2640
2620
2600
2580
2560
2540
2520

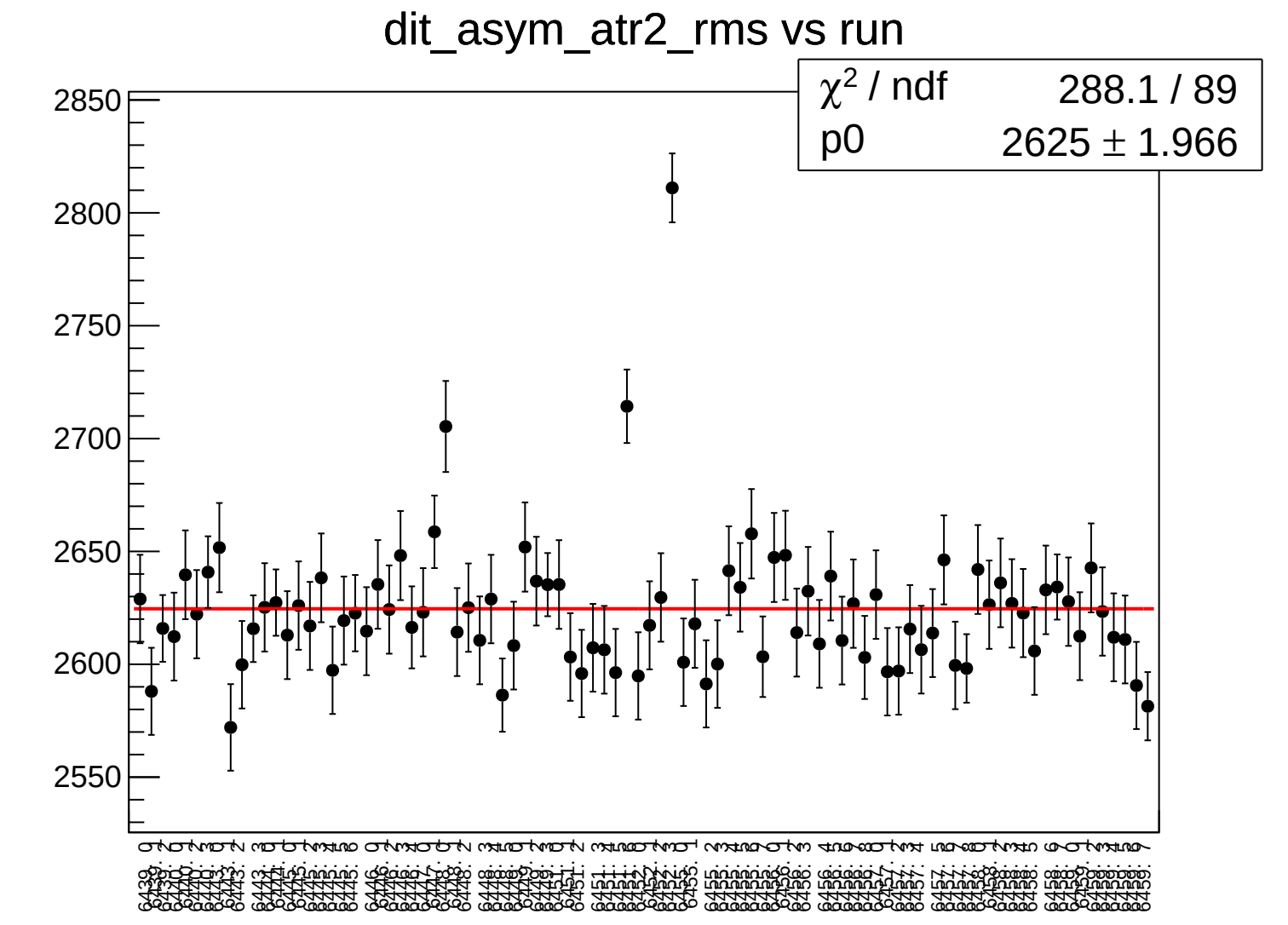

asym_atr2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 82.25 / 89
p0 −1.004e+04 ± 8223
200
100
0
−100
−200
−300
pull
Entries 90
Mean −125
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

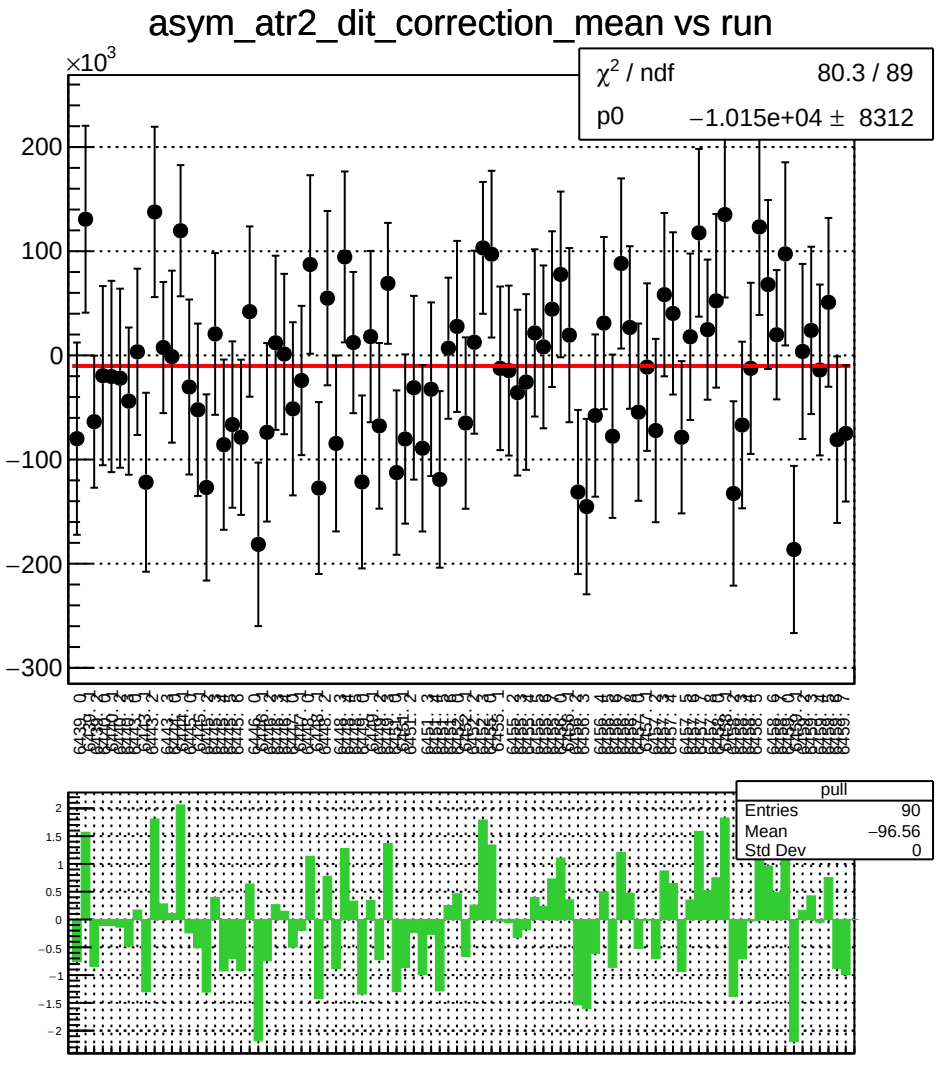

pull1D
Entries 90
Mean −0.01632
Std Dev 0.9559
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

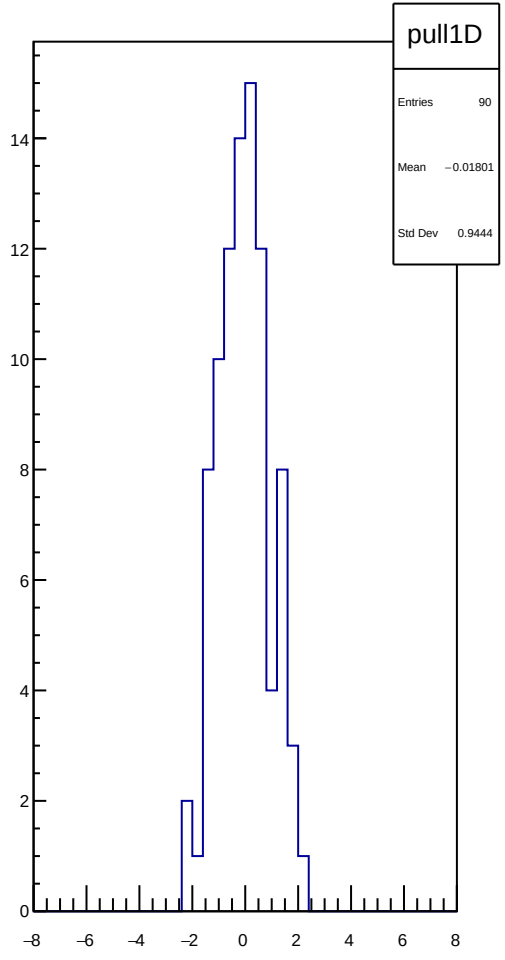

asym_atr2_eigen_cor_correction_rms vs run
χ² / ndf 2892 / 89
p0 7755 ± 5.814
8800
8600
8400
8200
8000
7800
7600
7400
7200
7000
6800

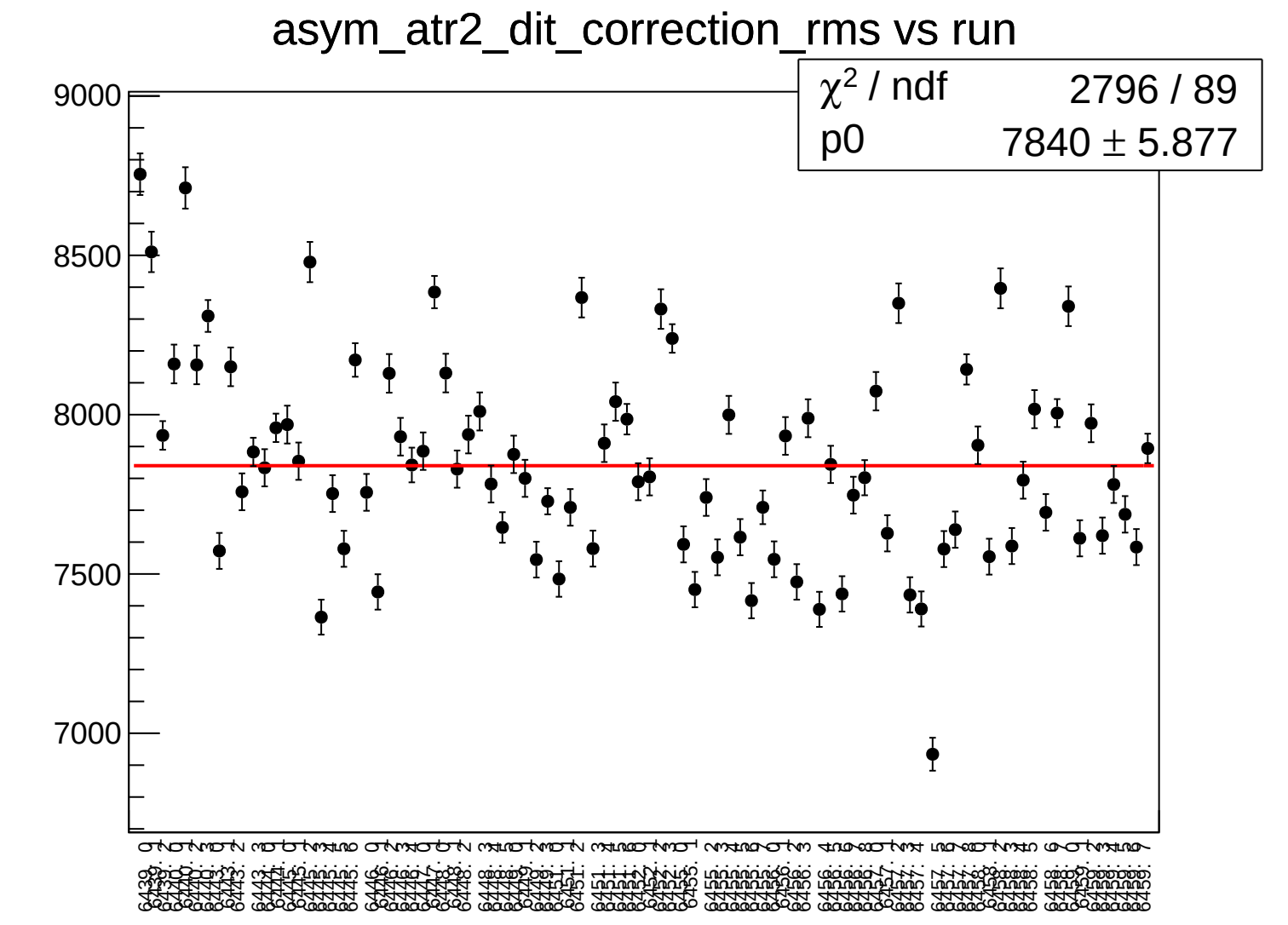

dit_asym_atr2_mean vs run
×10^3
χ^2 / ndf 83.31 / 89
p0 4424 ± 2781
100
50
0
−50
−100
pull
Entries 90
Mean −133.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

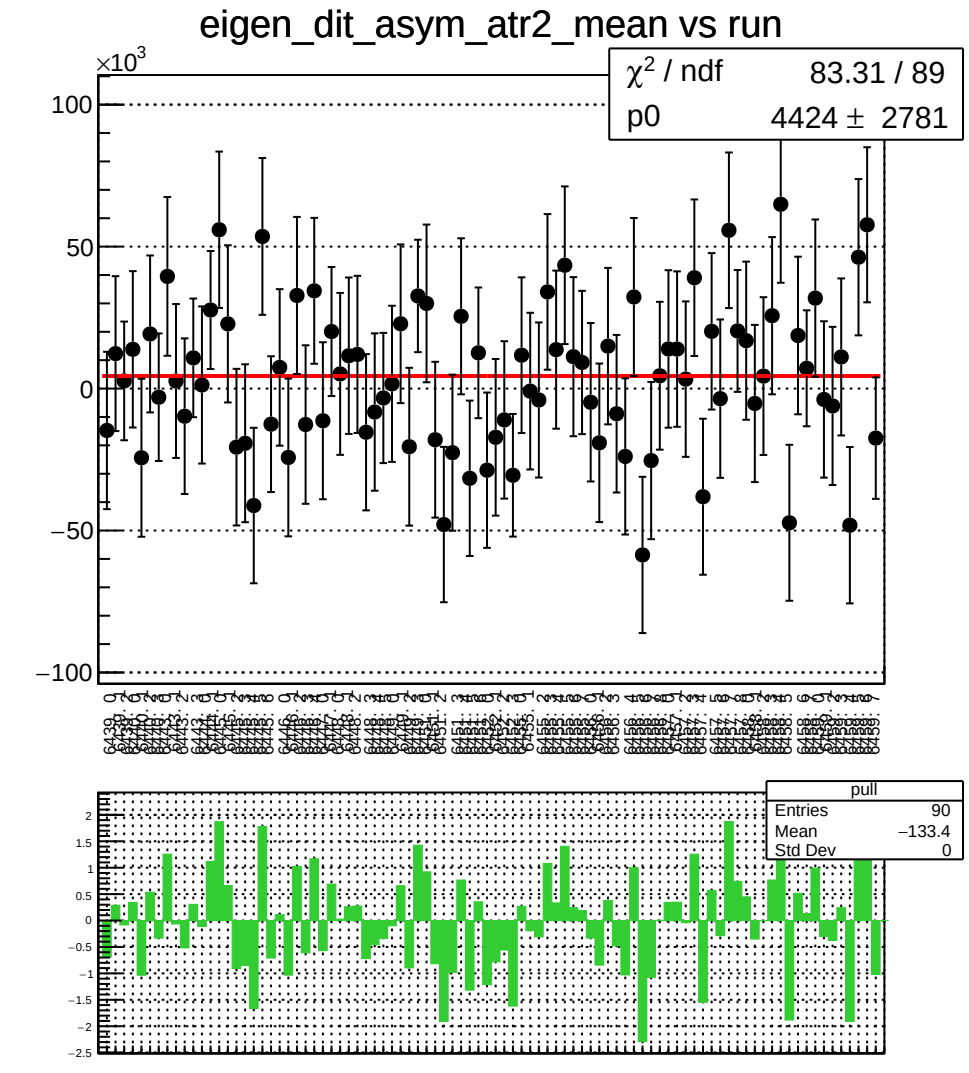

pull1D
Entries 90
Mean −0.00593
Std Dev 0.9621
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

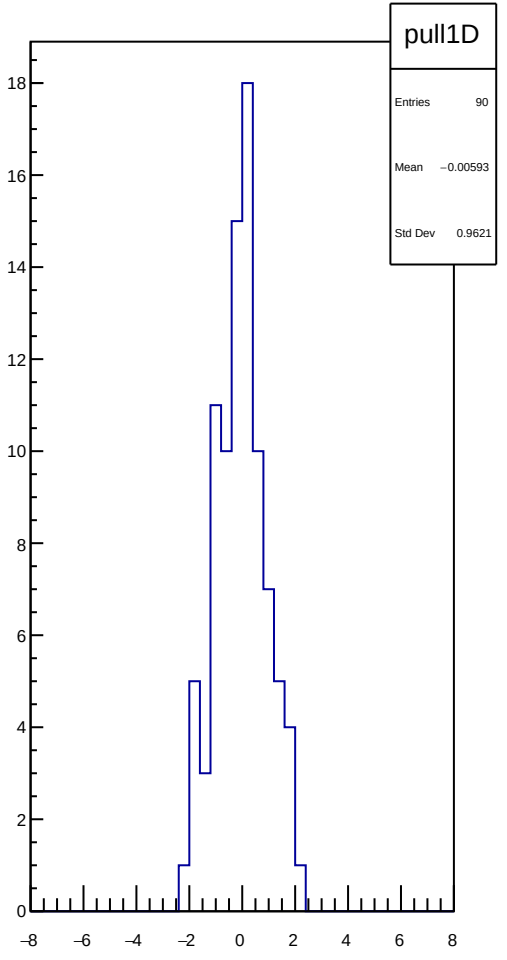

dit_asym_atr2_rms vs run
χ² / ndf 288.1 / 89
p0 2625 ± 1.966
2850
2800
2750
2700
2650
2600
2550

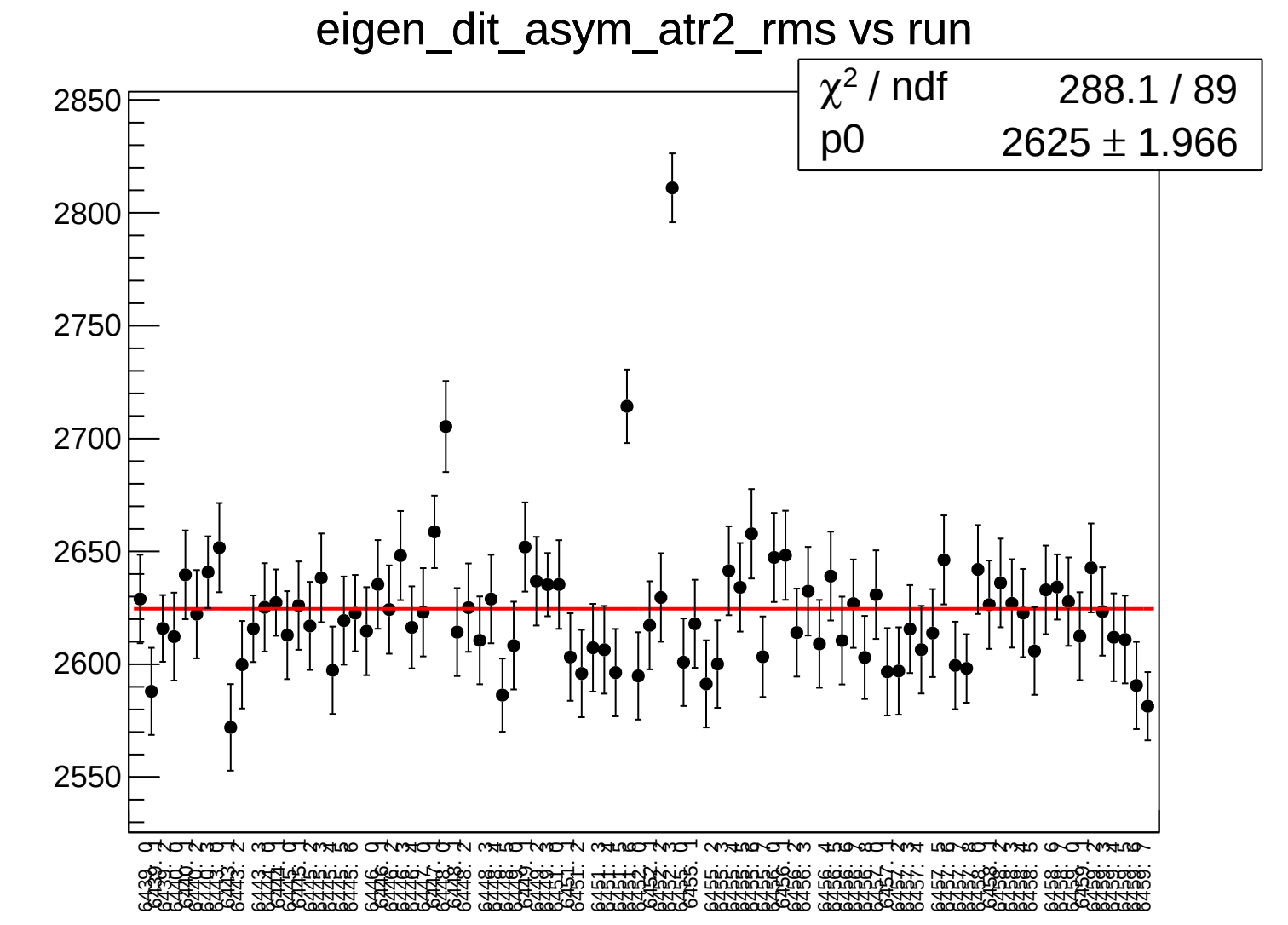

asym_atr2_dit_correction_mean vs run
×10^3
χ² / ndf 80.3 / 89
p0 −1.015e+04 ± 8312
200
100
0
−100
−200
−300
pull
Entries 90
Mean −96.56
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

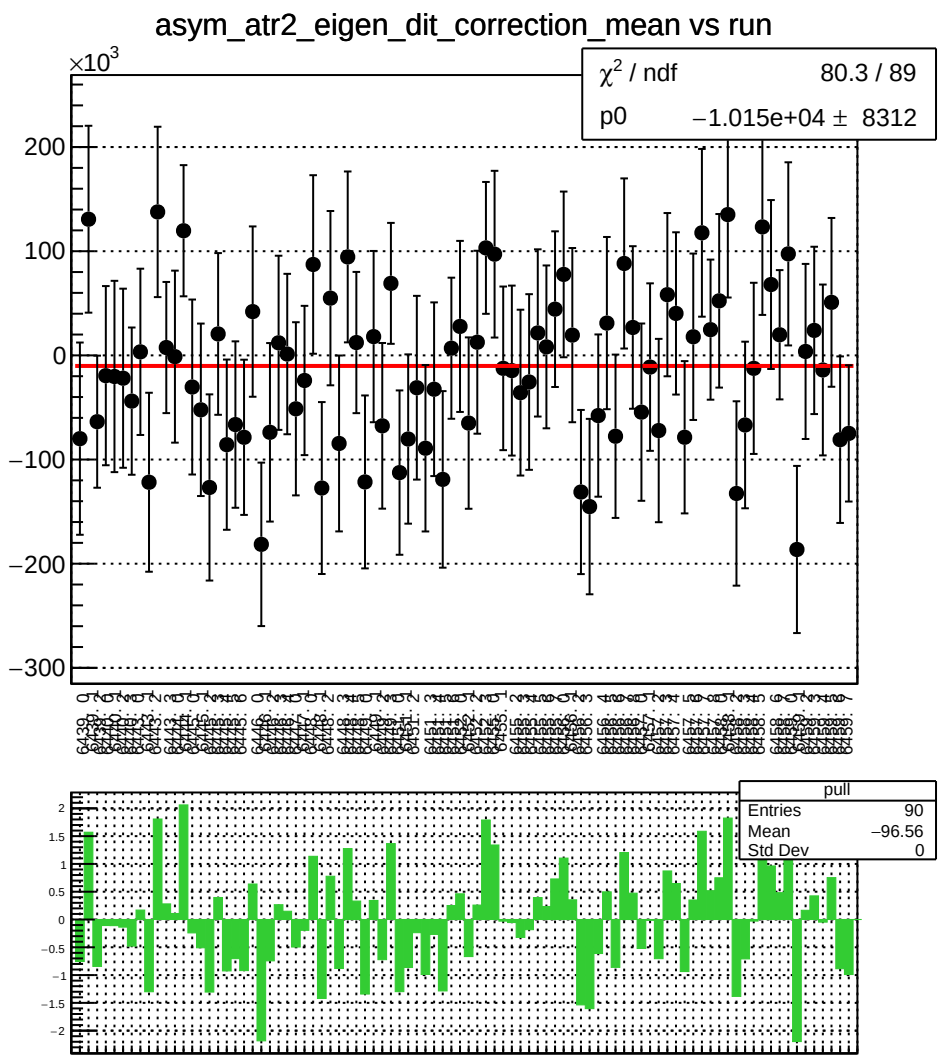

pull1D
Entries 90
Mean −0.01801
Std Dev 0.9444
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

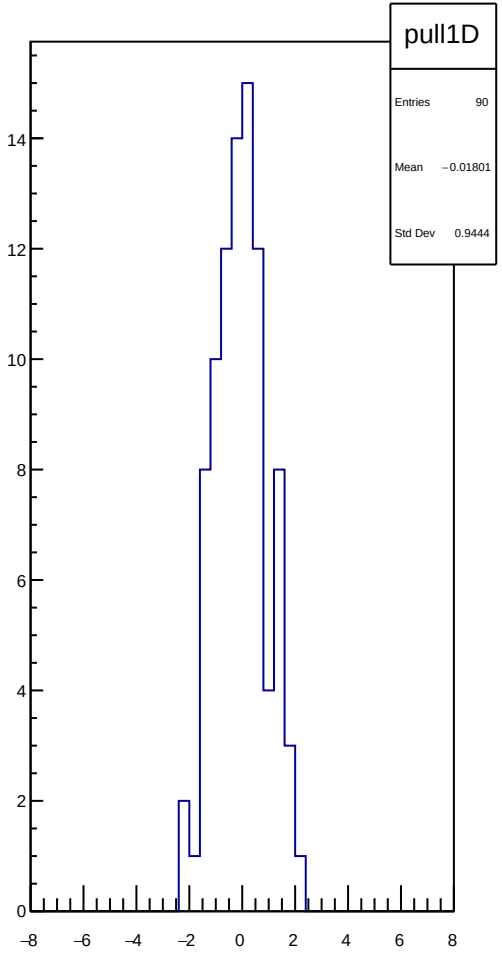

asym_atr2_dit_correction_rms vs run
χ^2 / ndf 2796 / 89
p0 7840 ± 5.877
9000
8500
8000
7500
7000

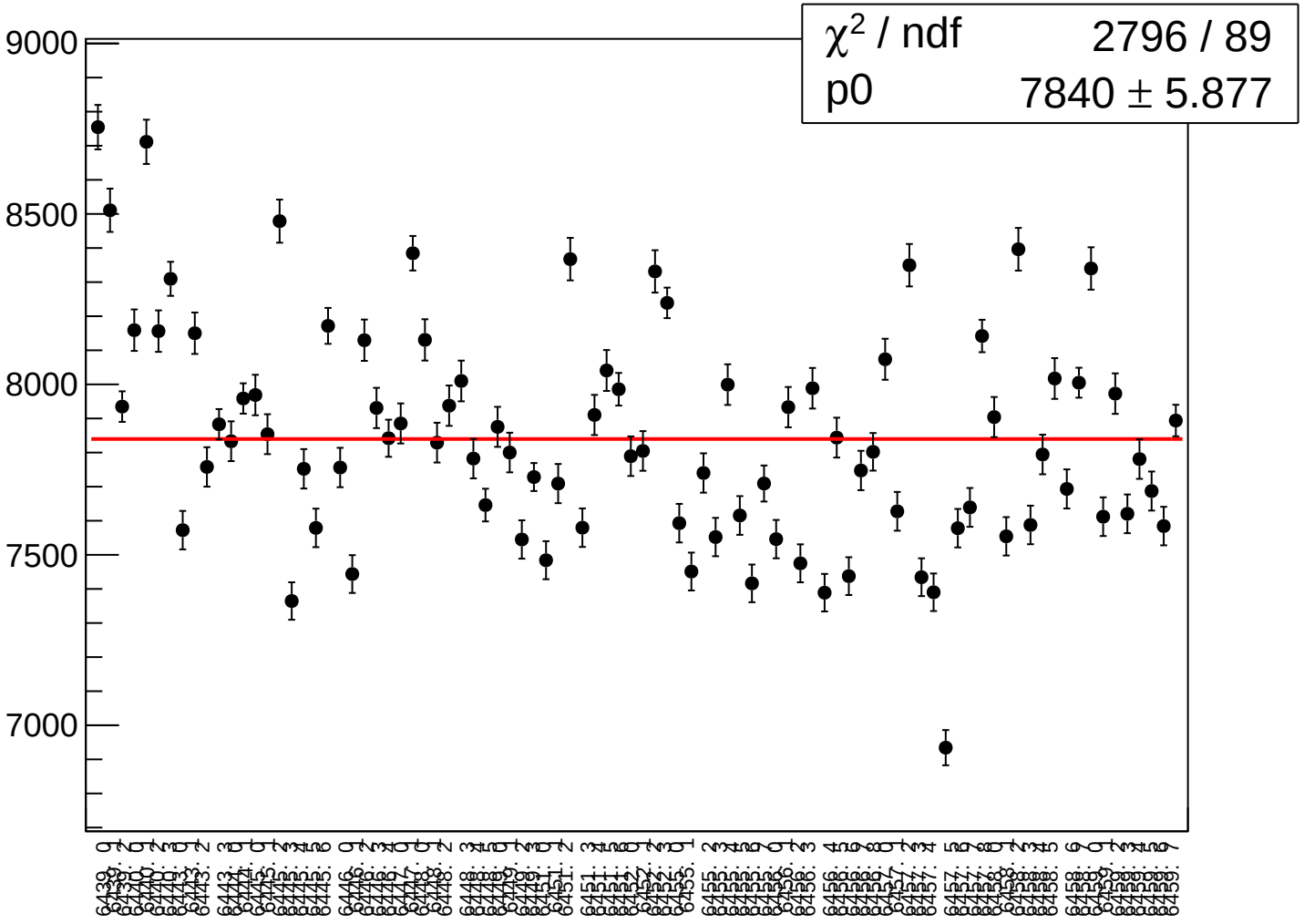

eigen_dit_asym_atr2_mean vs run
×10^3
χ² / ndf 83.31 / 89
p0 4424 ± 2781
100
50
0
−50
−100
pull
Entries 90
Mean −133.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

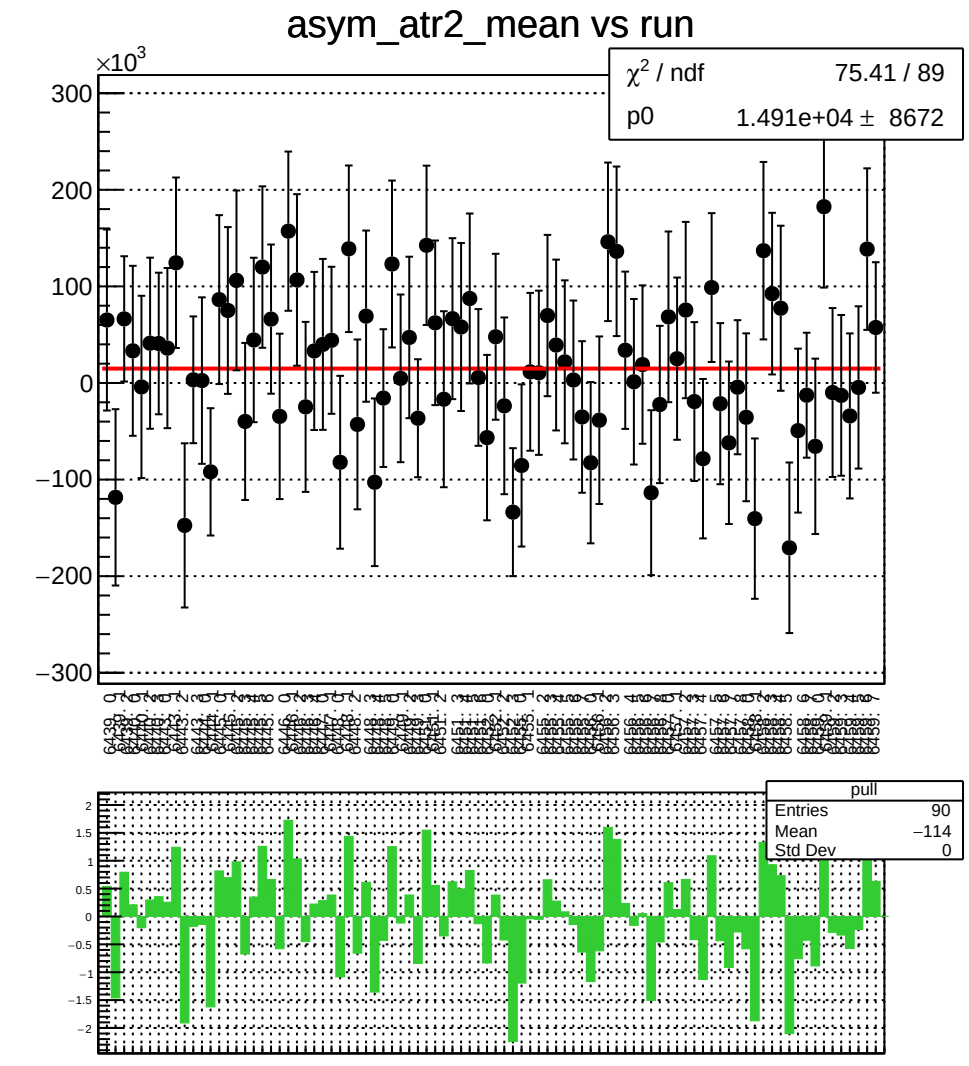

pull1D
Entries 90
Mean −0.00593
Std Dev 0.9621
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

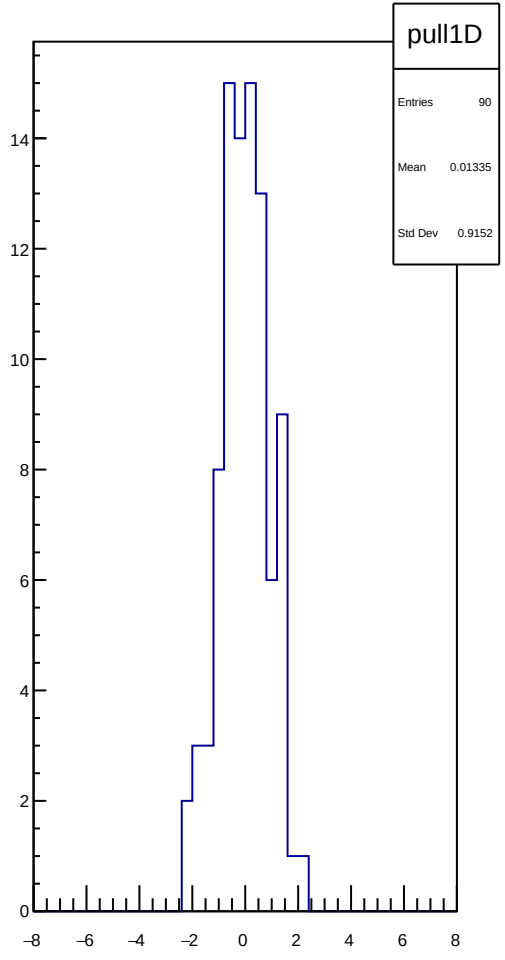

eigen_dit_asym_atr2_rms vs run
χ^2 / ndf 288.1 / 89
p0 2625 ± 1.966
2850
2800
2750
2700
2650
2600
2550

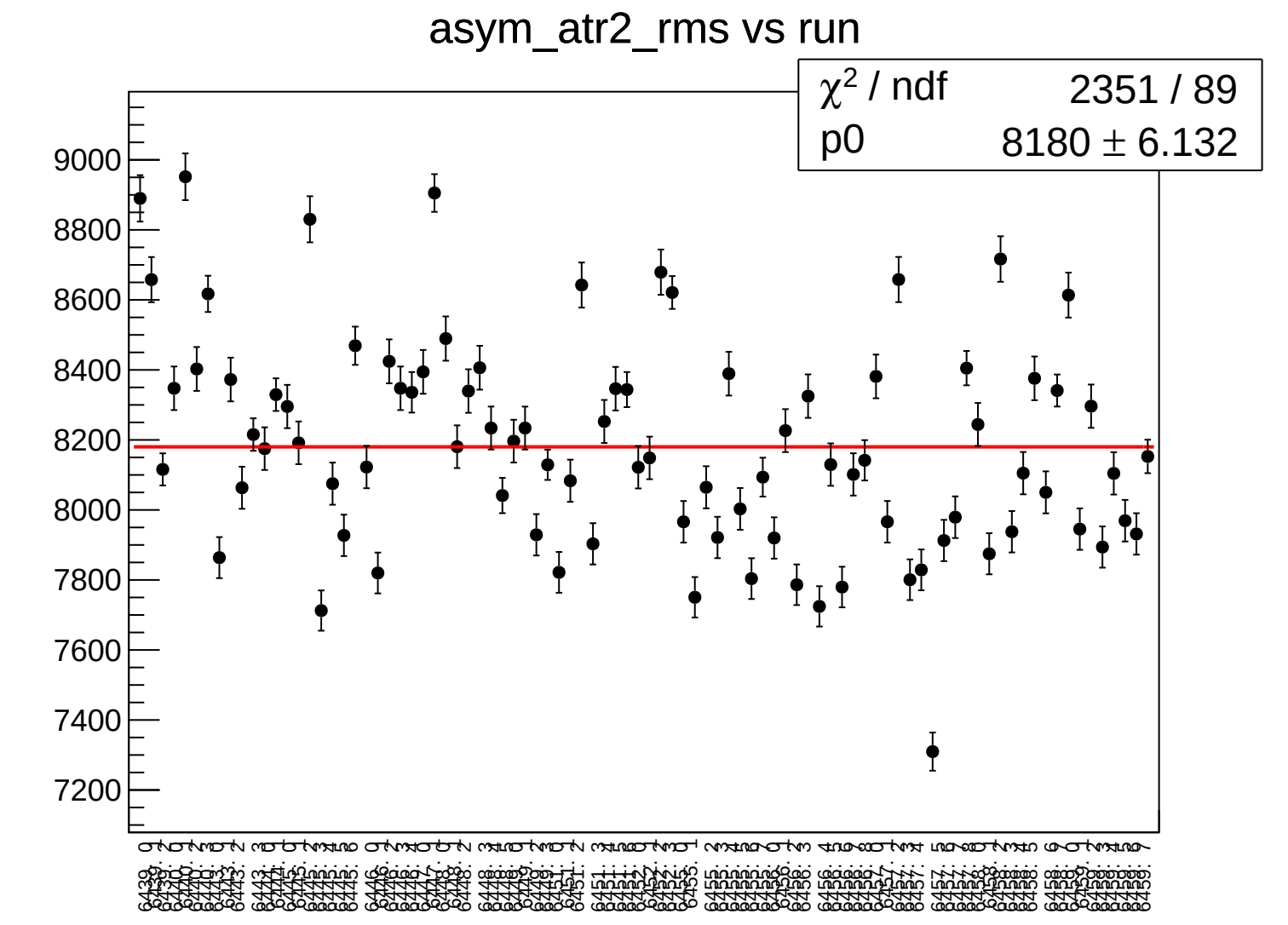

asym_atr2_eigen_dit_correction_mean vs run
χ² / ndf 80.3 / 89
p0 −1.015e+04 ± 8312
×10³
pull
Entries 90
Mean −96.56
Std Dev 0

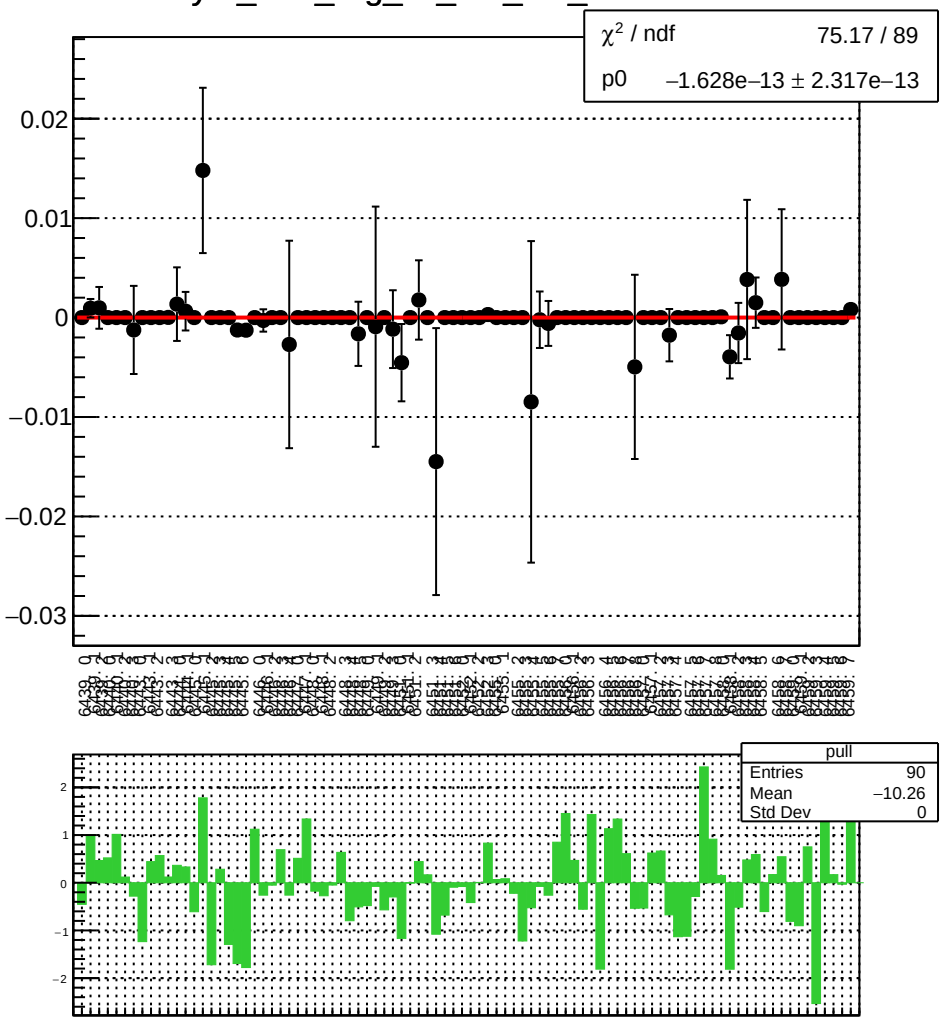

pull1D
Entries 90
Mean −0.01801
Std Dev 0.9444

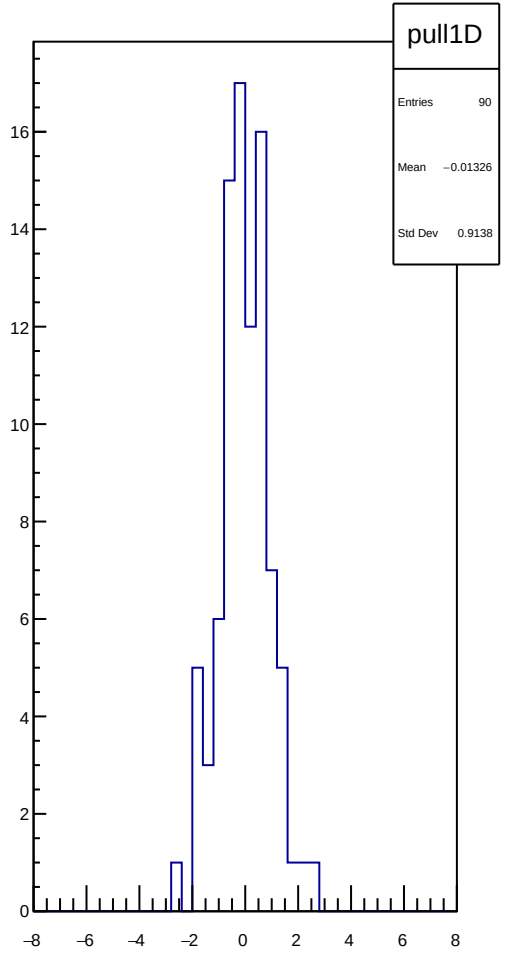

asym_atr2_eigen_dit_correction_rms vs run
χ² / ndf 2796 / 89
p0 7840 ± 5.877
9000
8500
8000
7500
7000

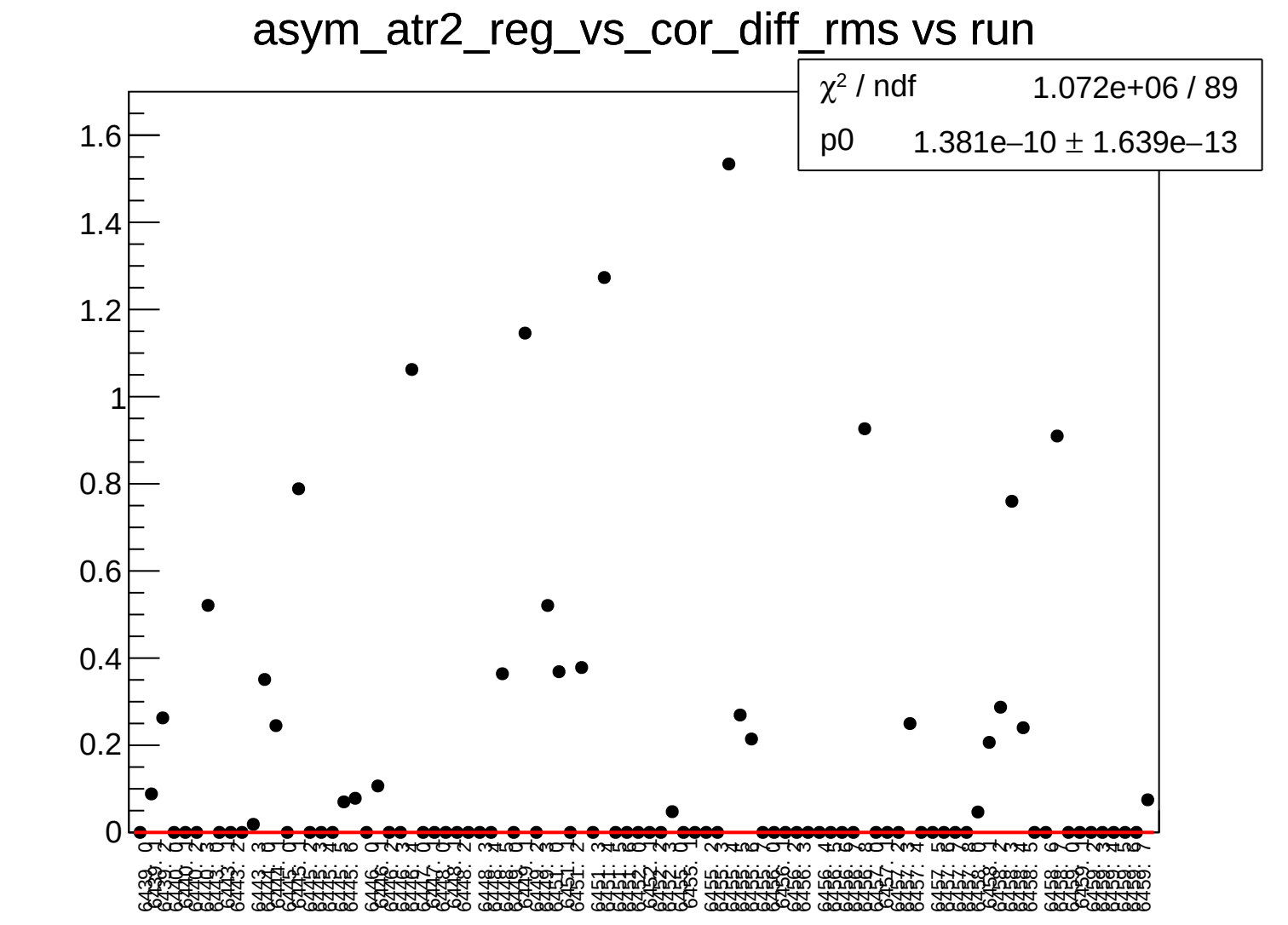

asym_atr2_mean vs run
×10^3
χ² / ndf 75.41 / 89
p0 1.491e+04 ± 8672
pull
Entries 90
Mean −114
Std Dev 0

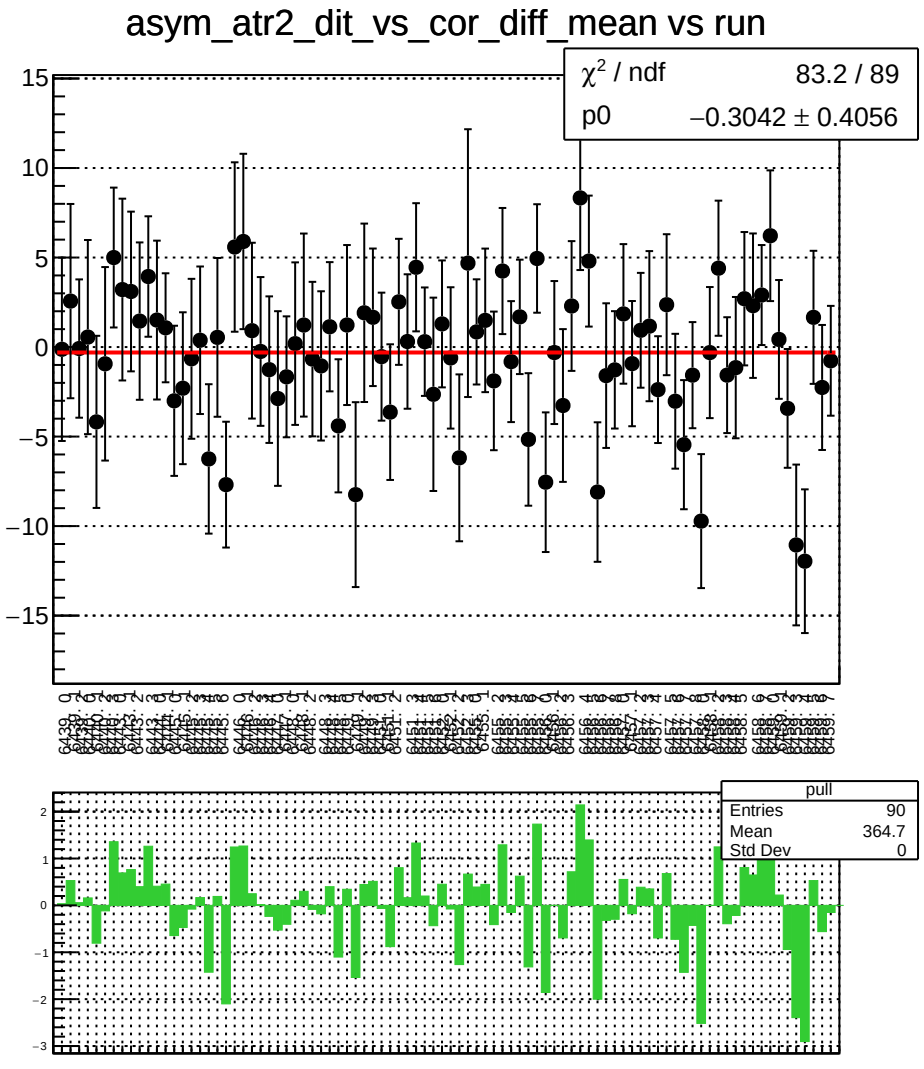

pull1D
Entries 90
Mean 0.01335
Std Dev 0.9152

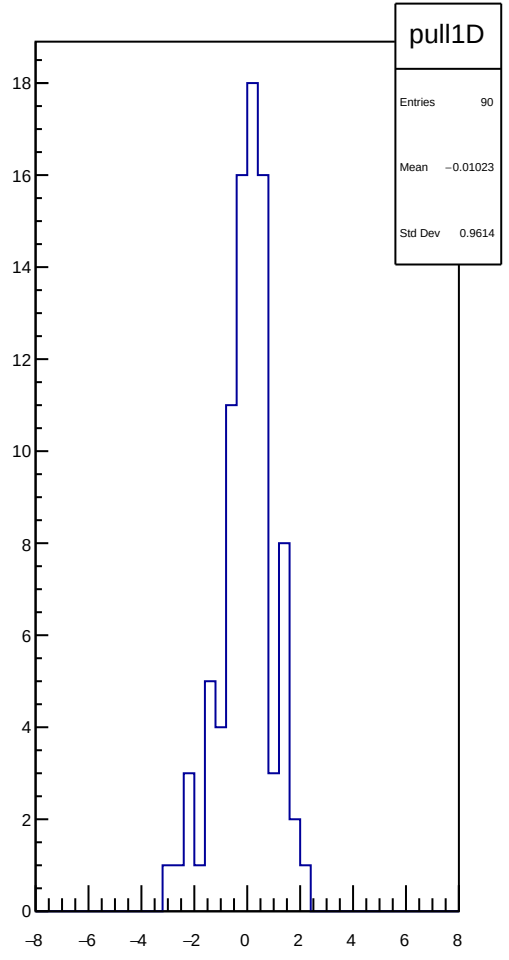

asym_atr2_rms vs run
χ^2 / ndf 2351 / 89
p0 8180 ± 6.132
9000
8800
8600
8400
8200
8000
7800
7600
7400
7200

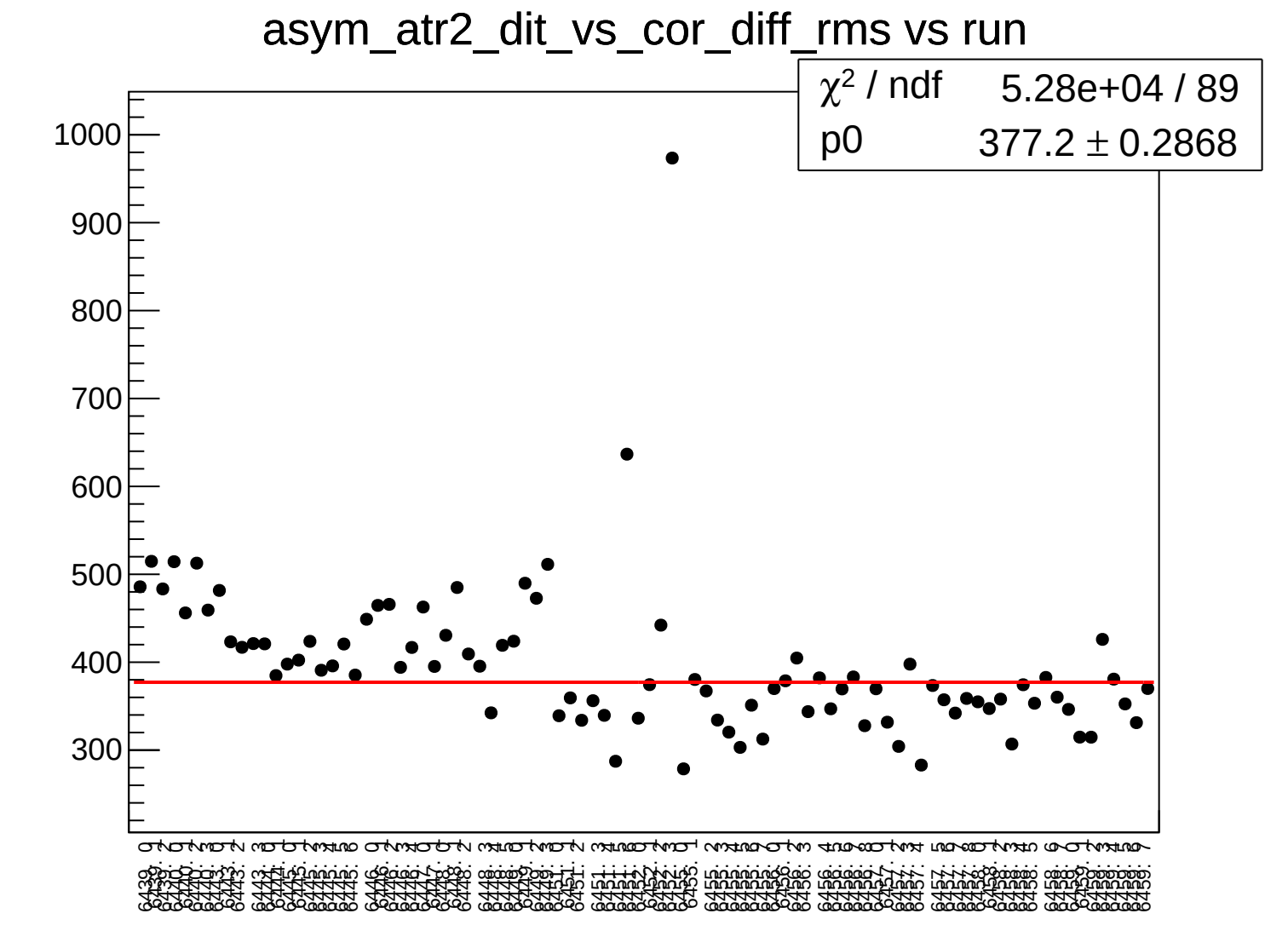

asym_atr2_reg_vs_cor_diff_mean vs run
χ² / ndf 75.17 / 89
p0 −1.628e−13 ± 2.317e−13
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 90
Mean −10.26
Std Dev 0
2
1
0
−1
−2

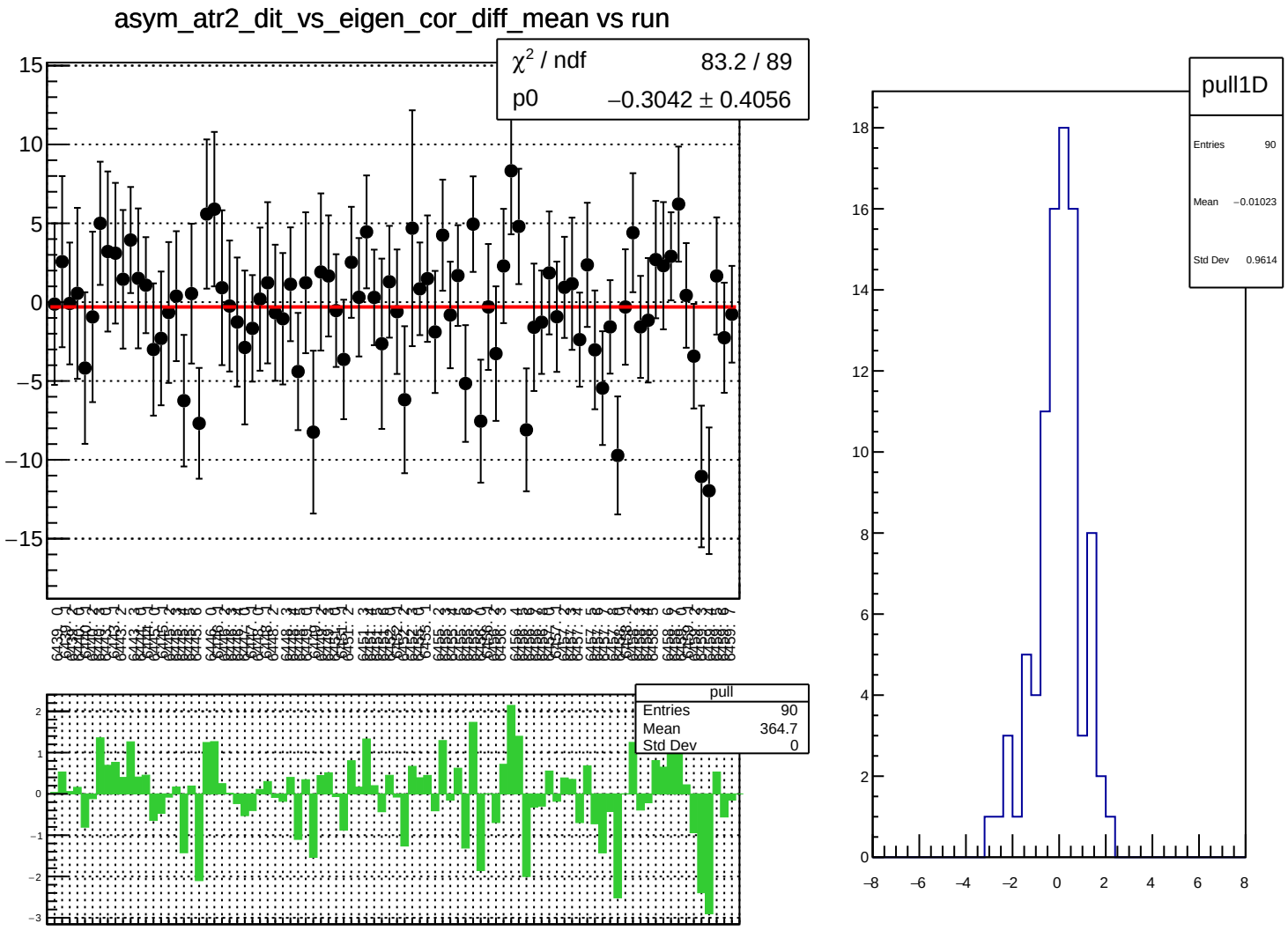

pull1D
Entries 90
Mean −0.01326
Std Dev 0.9138
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

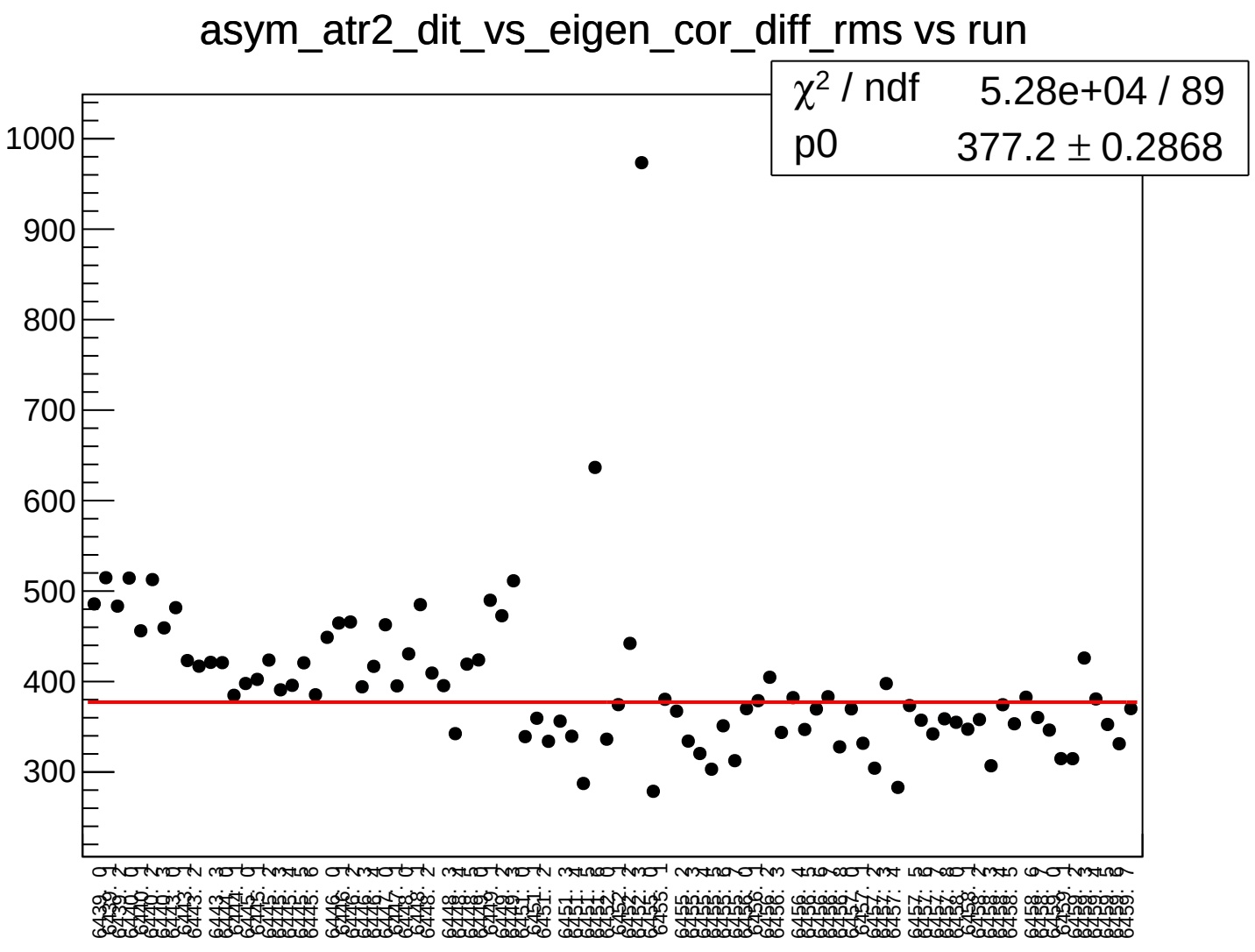

asym_atr2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.072e+06 / 89
p0 1.381e−10 ± 1.639e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

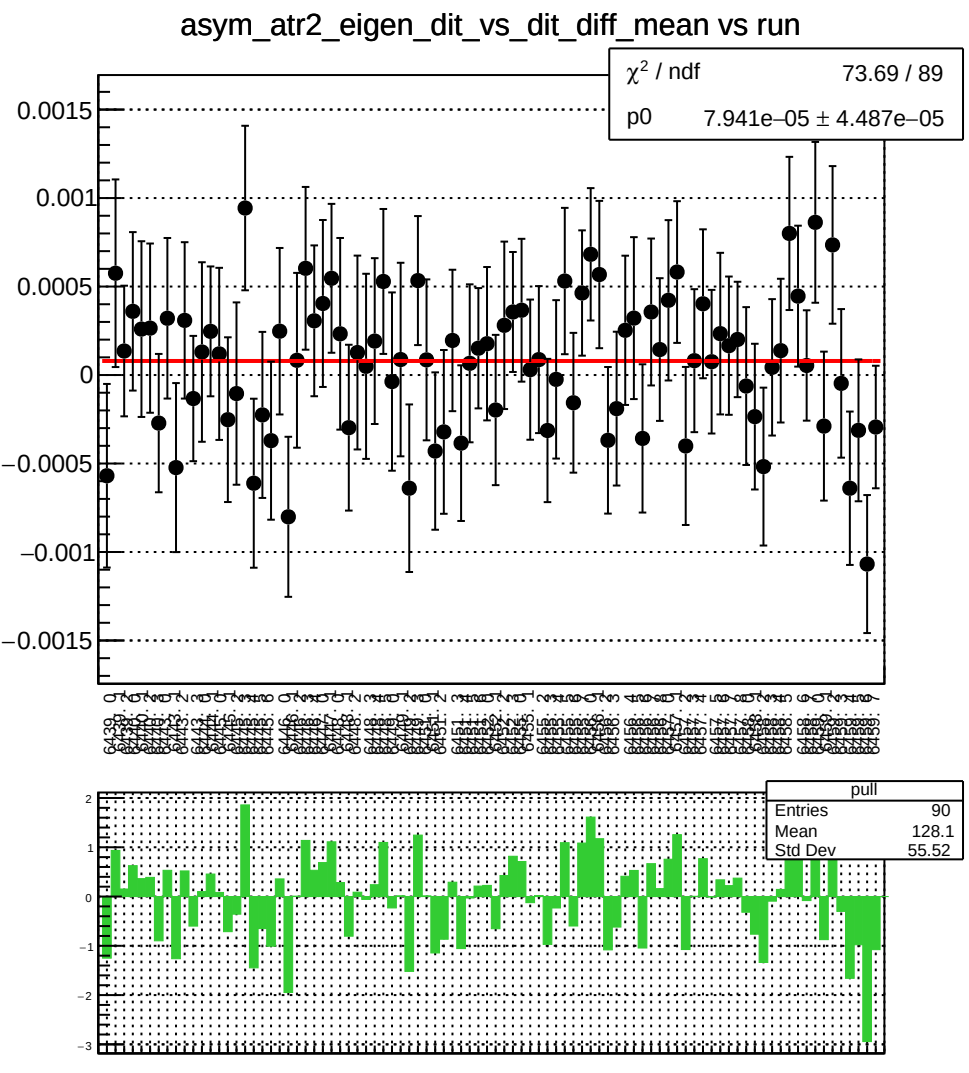

asym_atr2_dit_vs_cor_diff_mean vs run
χ² / ndf 83.2 / 89
p0 −0.3042 ± 0.4056
pull
Entries 90
Mean 364.7
Std Dev 0

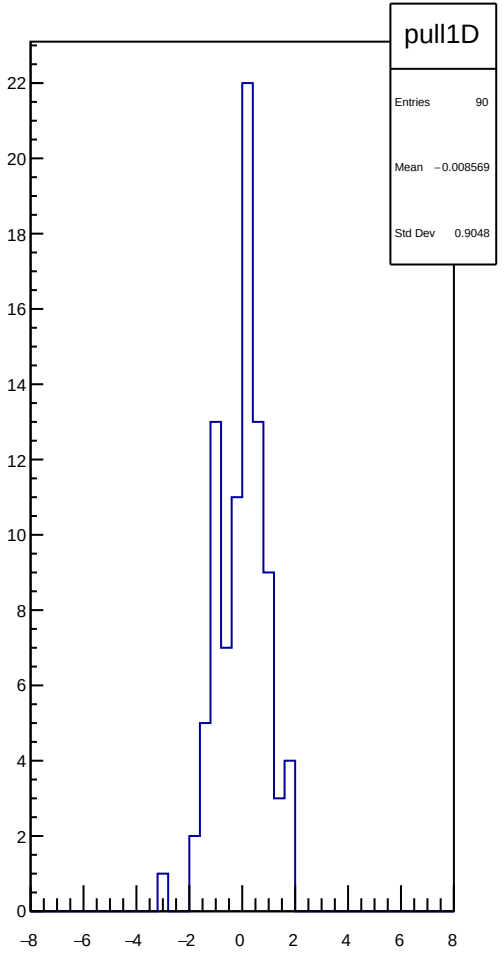

pull1D
Entries 90
Mean −0.01023
Std Dev 0.9614

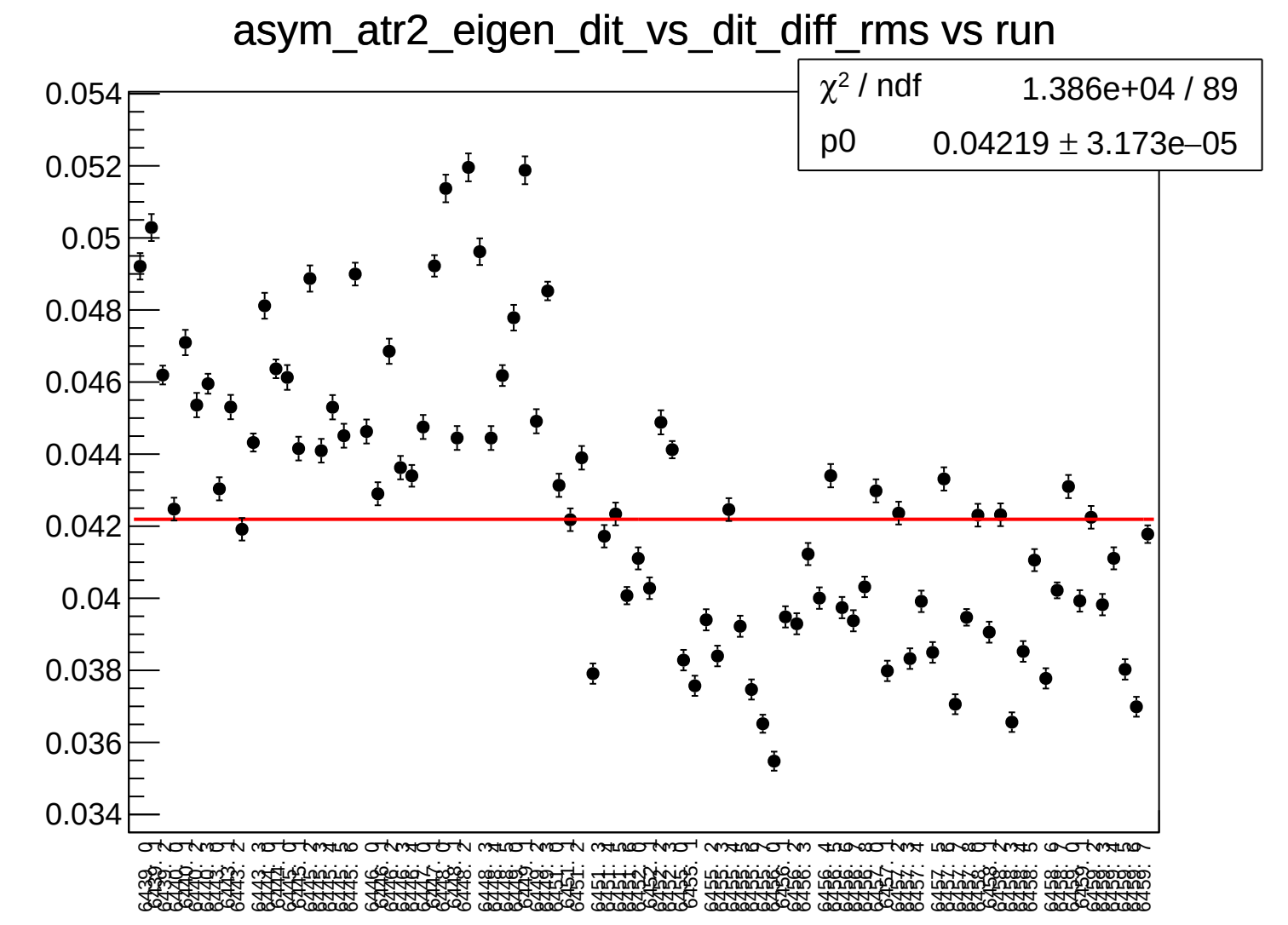

asym_atr2_dit_vs_cor_diff_rms vs run
χ² / ndf 5.28e+04 / 89
p0 377.2 ± 0.2868
1000
900
800
700
600
500
400
300

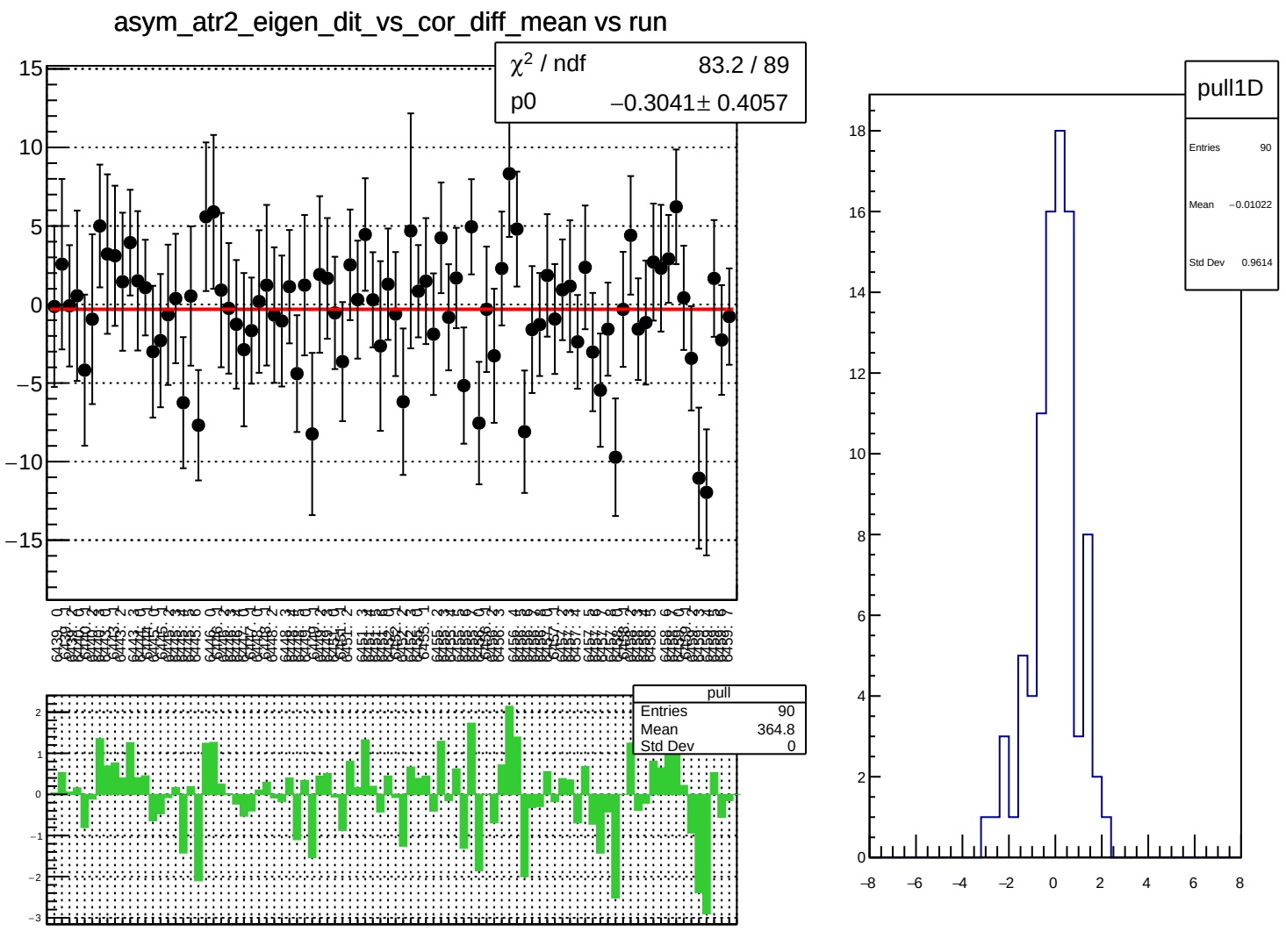

asym_atr2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.2 / 89
p0 −0.3042 ± 0.4056
pull
Entries 90
Mean 364.7
Std Dev 0
pull1D
Entries 90
Mean −0.01023
Std Dev 0.9614

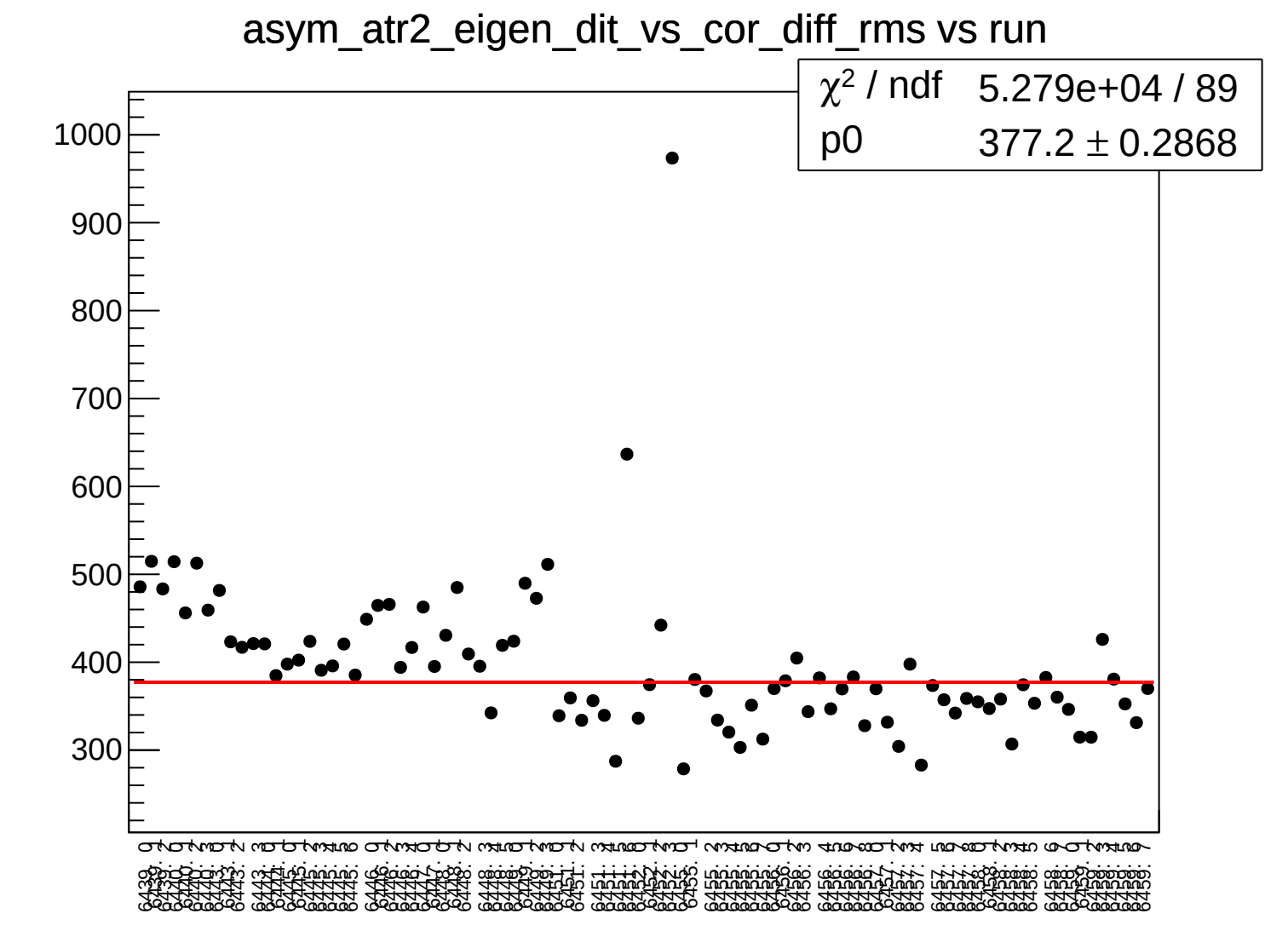

asym_atr2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.28e+04 / 89
p0 377.2 ± 0.2868
1000
900
800
700
600
500
400
300

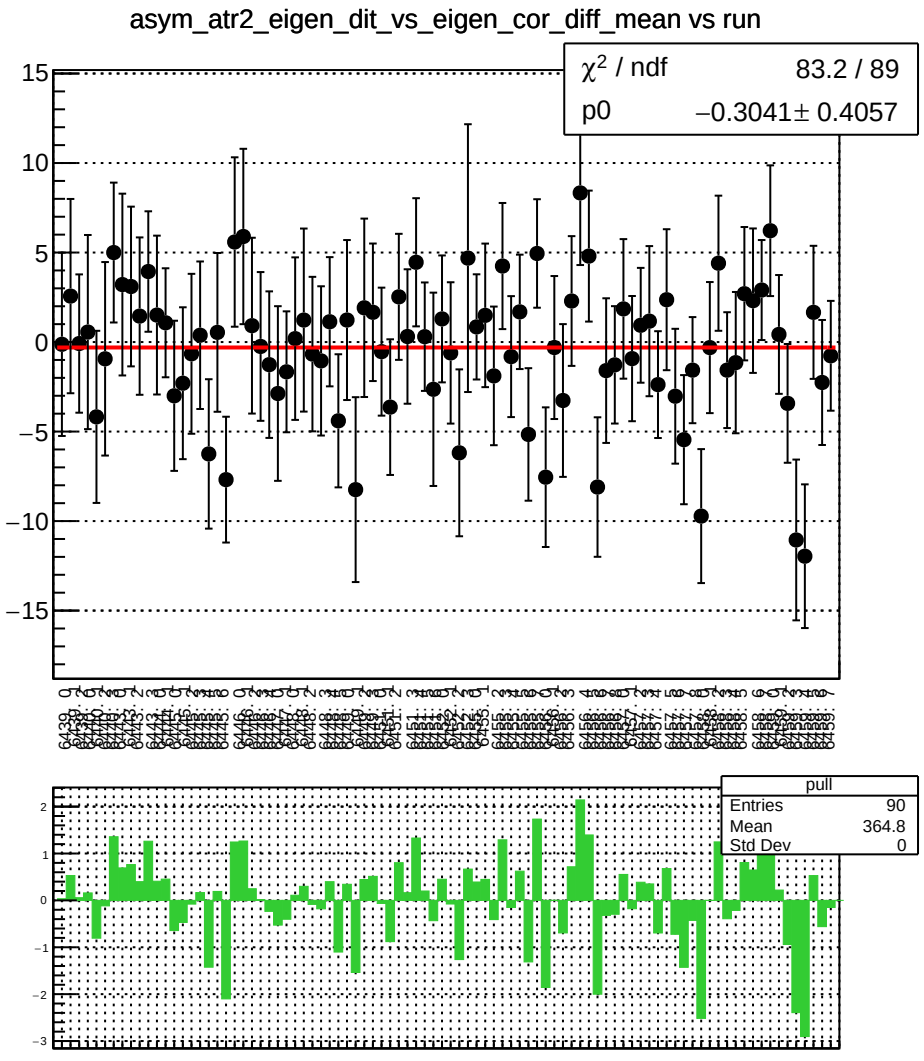

asym_atr2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 73.69 / 89
p0 7.941e−05 ± 4.487e−05
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 90
Mean 128.1
Std Dev 55.52
2
1
0
−1
−2
−3

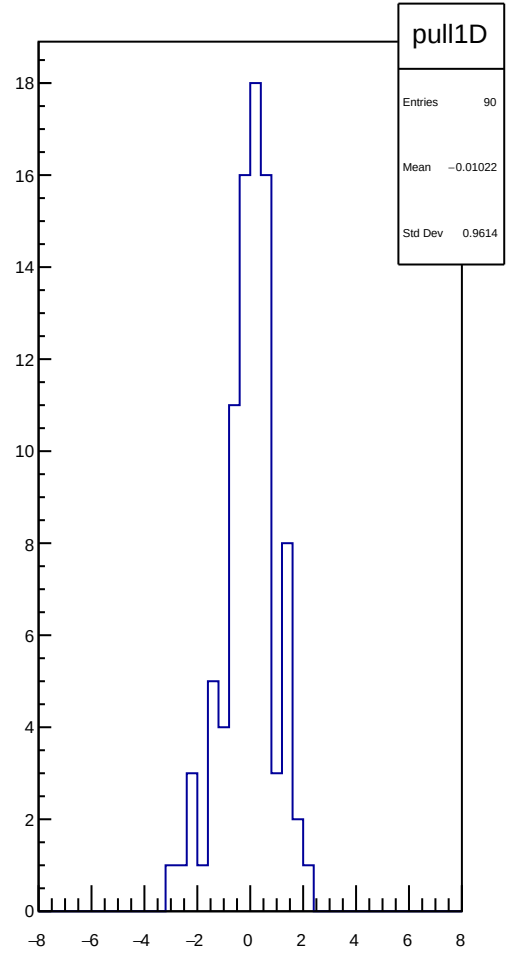

pull1D
Entries 90
Mean −0.008569
Std Dev 0.9048
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

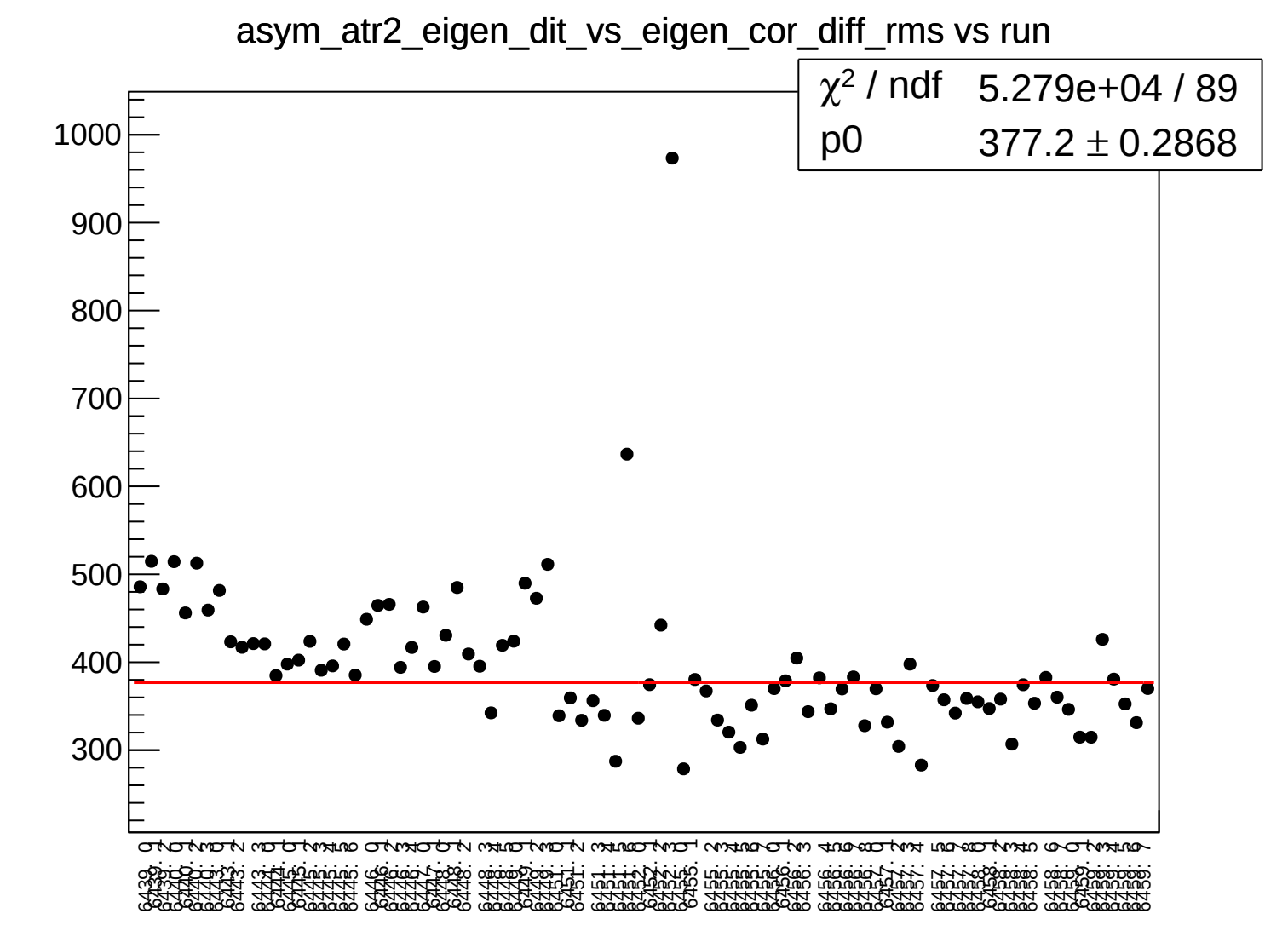

asym_atr2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.386e+04 / 89
p0 0.04219 ± 3.173e–05
0.054
0.052
0.05
0.048
0.046
0.044
0.042
0.04
0.038
0.036
0.034

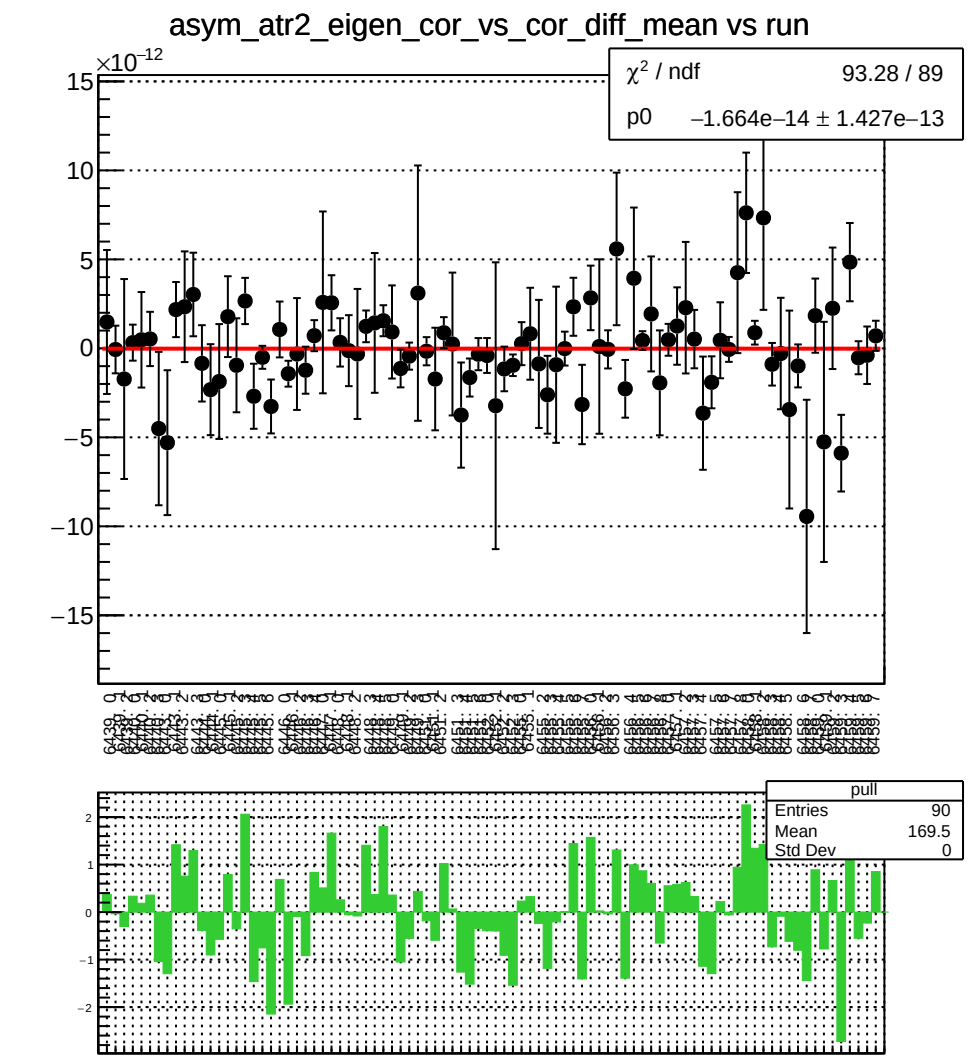

asym_atr2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.2 / 89
p0 −0.3041± 0.4057
pull
Entries 90
Mean 364.8
Std Dev 0
pull1D
Entries 90
Mean −0.01022
Std Dev 0.9614

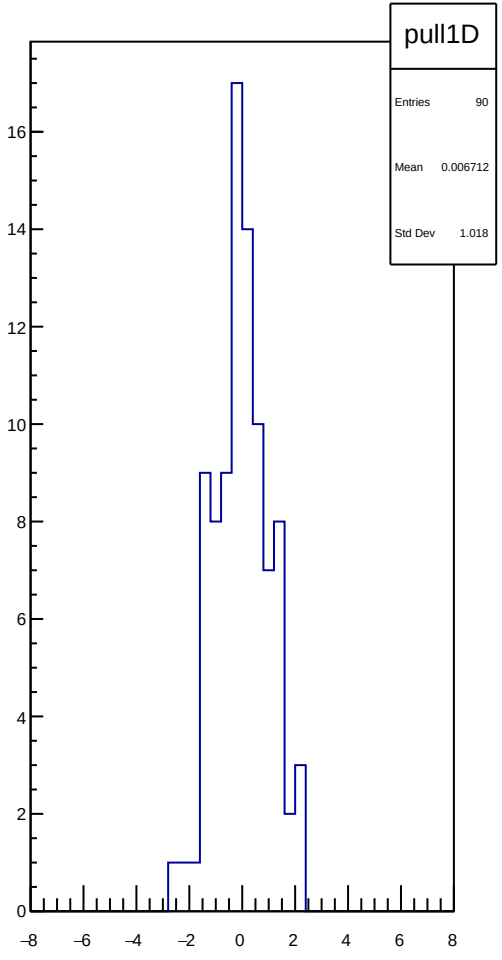

asym_atr2_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 5.279e+04 / 89
p0 377.2 ± 0.2868
1000
900
800
700
600
500
400
300

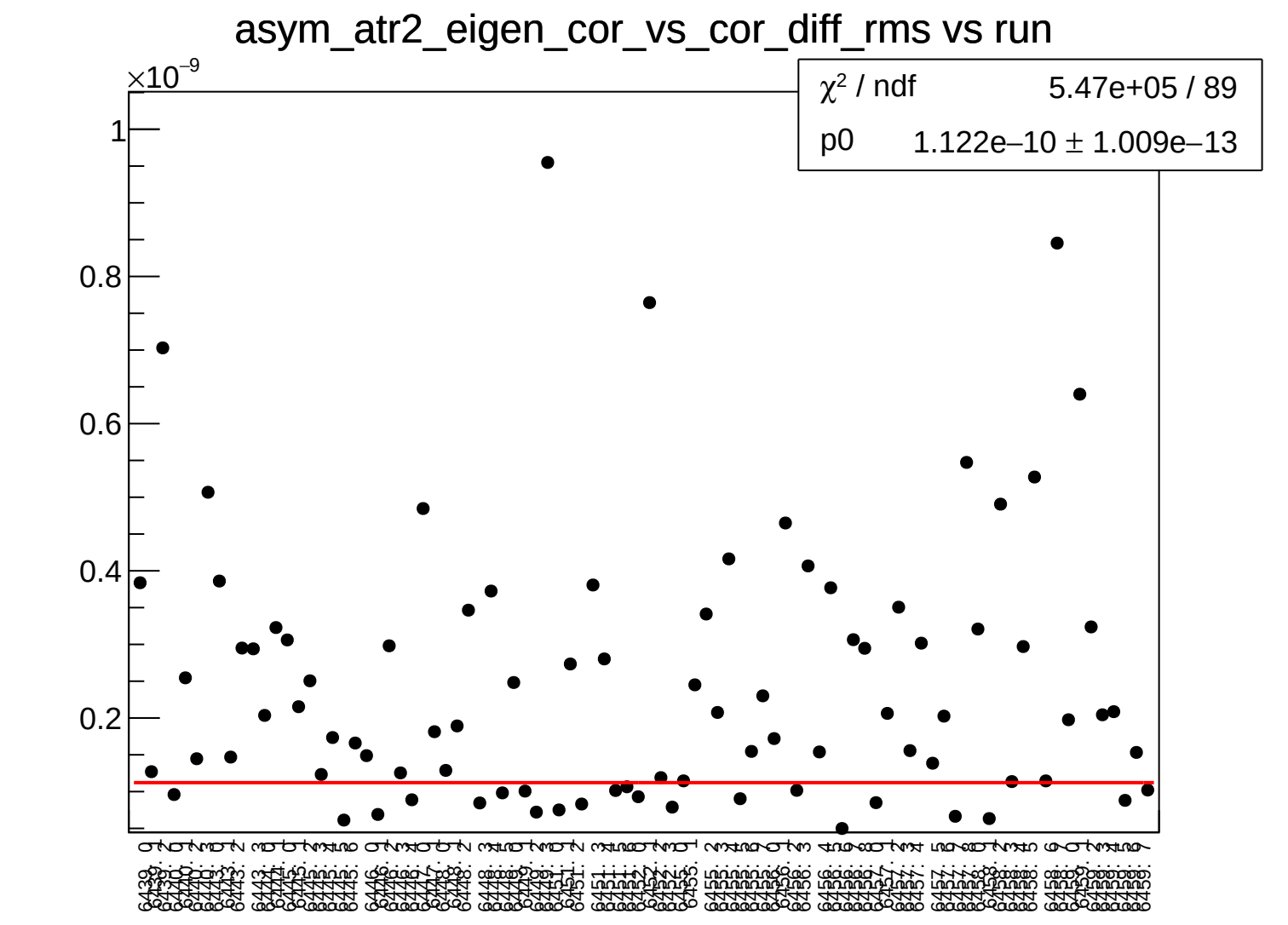

asym_atr2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.2 / 89
p0 −0.3041± 0.4057
pull
Entries 90
Mean 364.8
Std Dev 0

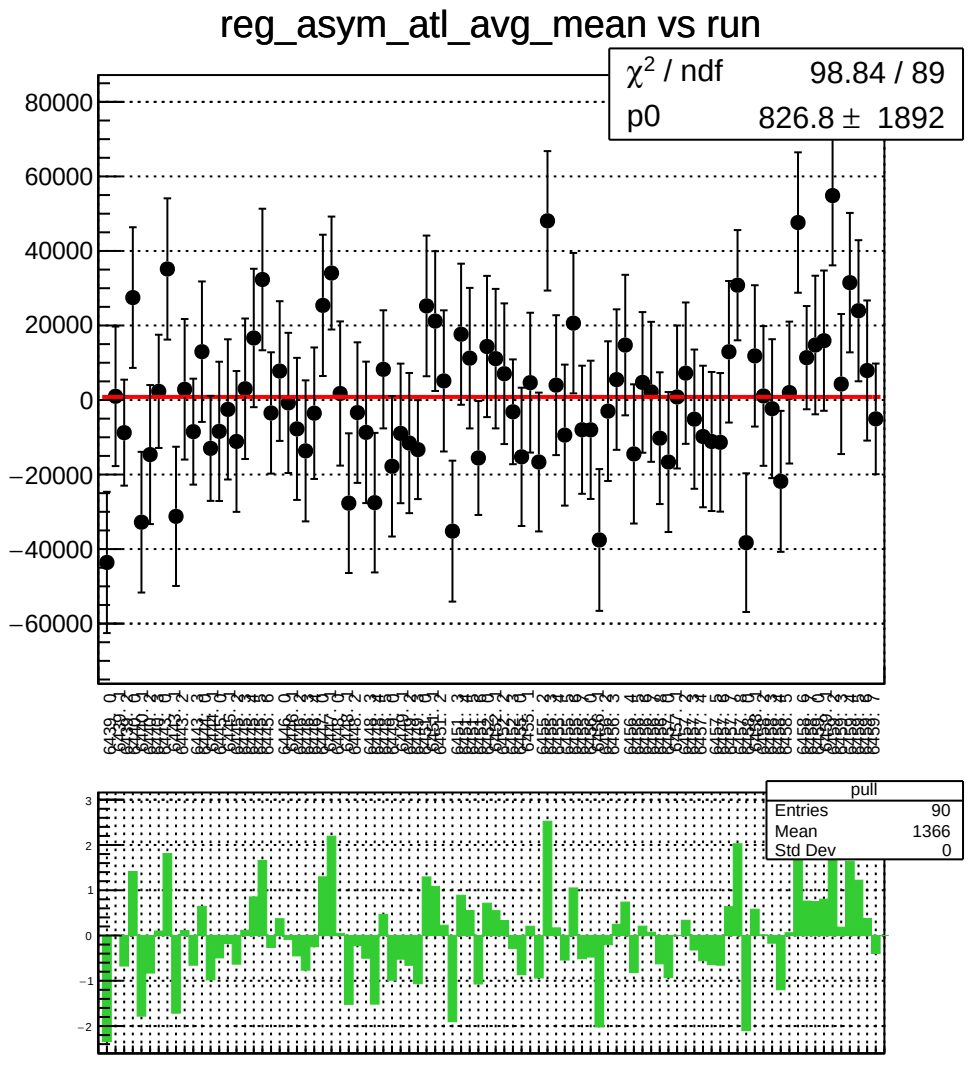

pull1D
Entries 90
Mean −0.01022
Std Dev 0.9614

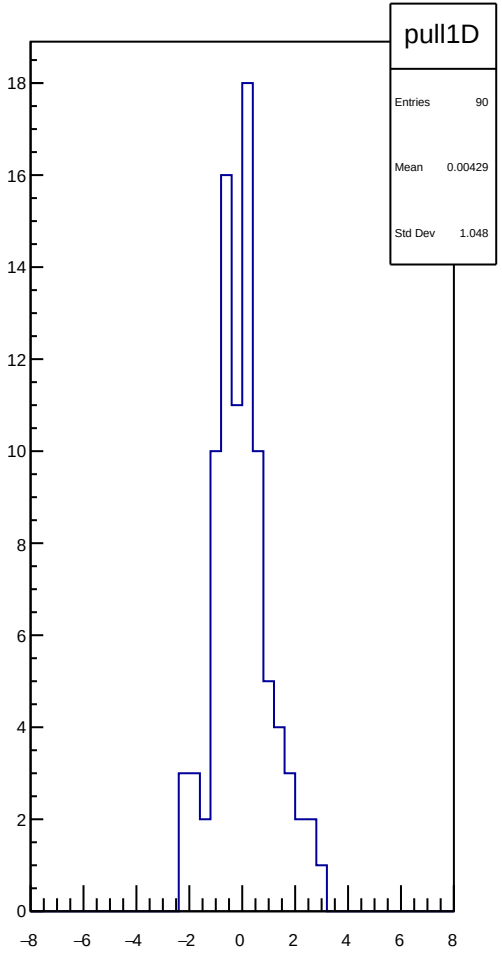

asym_atr2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.279e+04 / 89
p0 377.2 ± 0.2868
1000
900
800
700
600
500
400
300

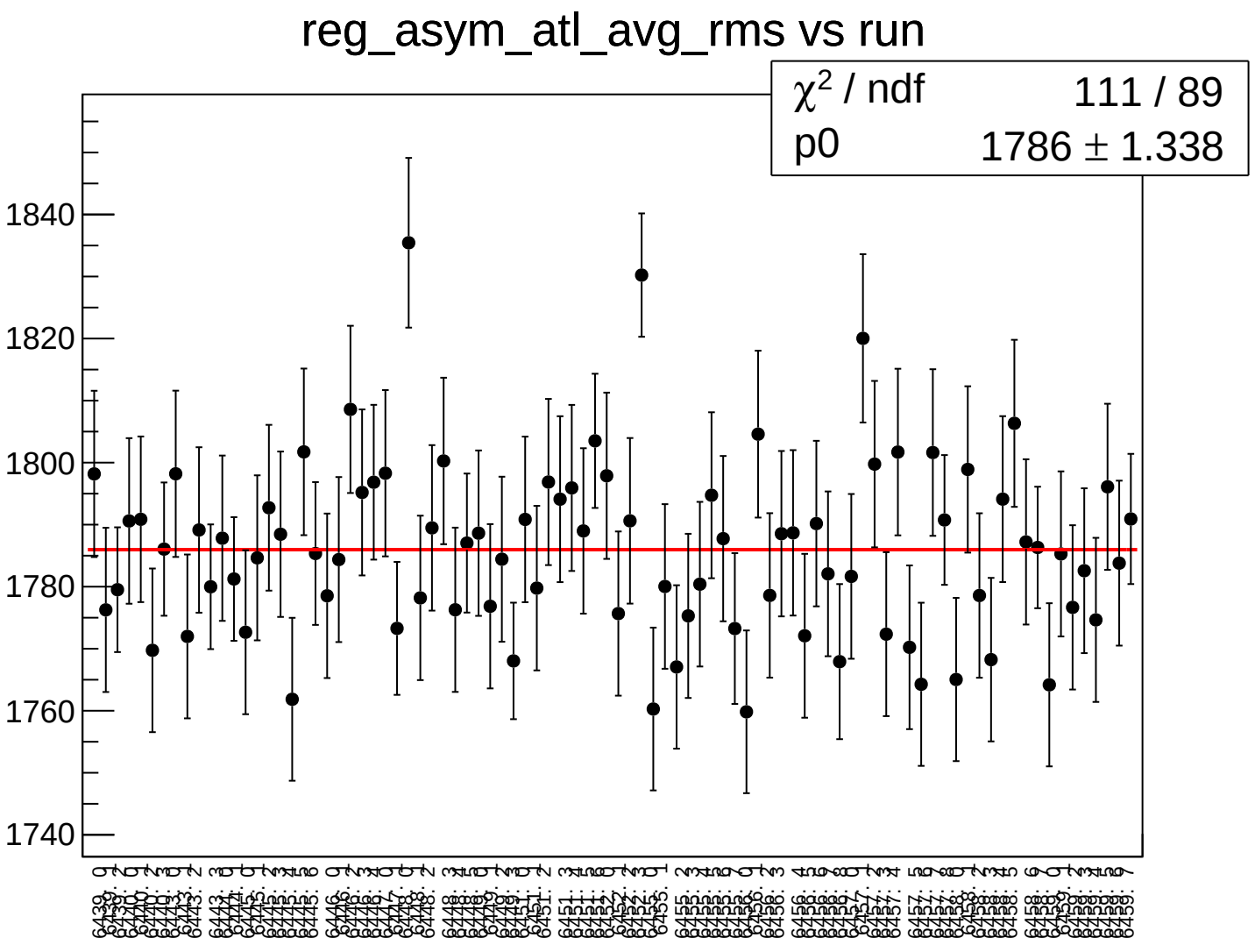

asym_atr2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.28 / 89
p0 −1.664e−14 ± 1.427e−13
pull
Entries 90
Mean 169.5
Std Dev 0

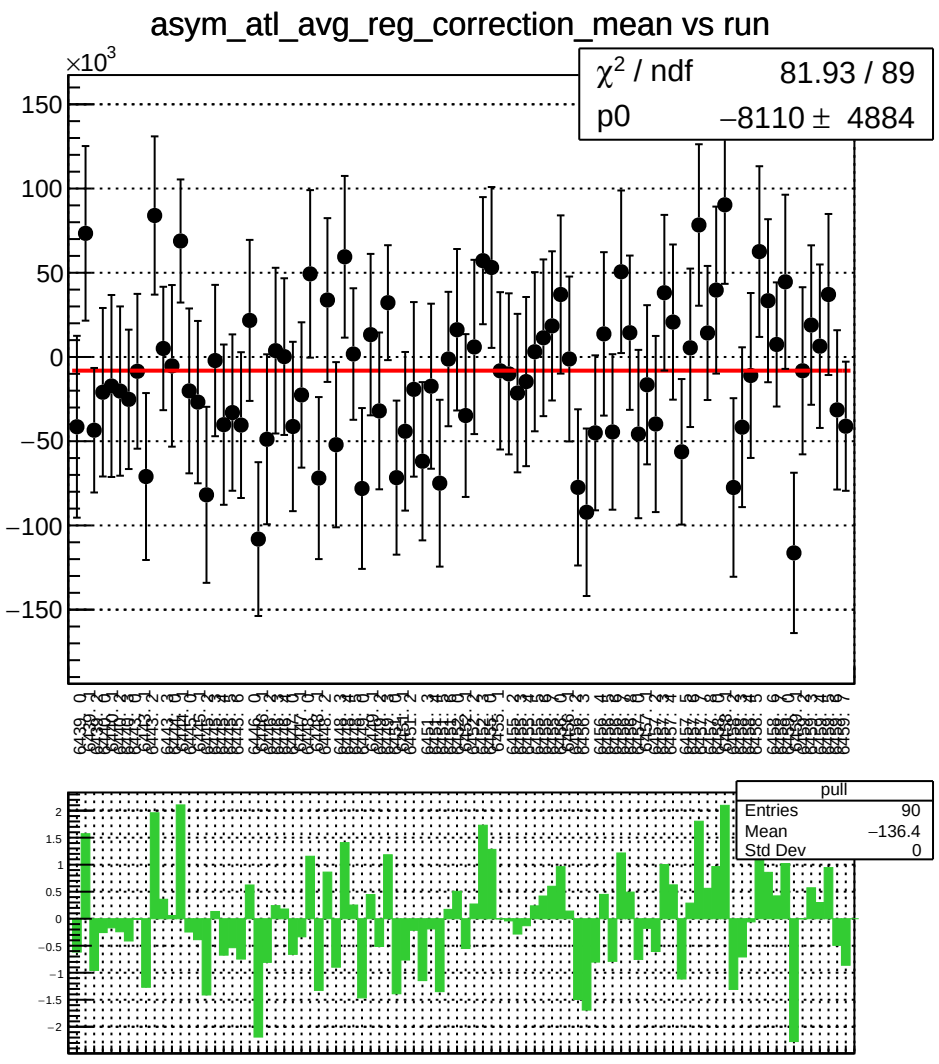

pull1D
Entries 90
Mean 0.006712
Std Dev 1.018

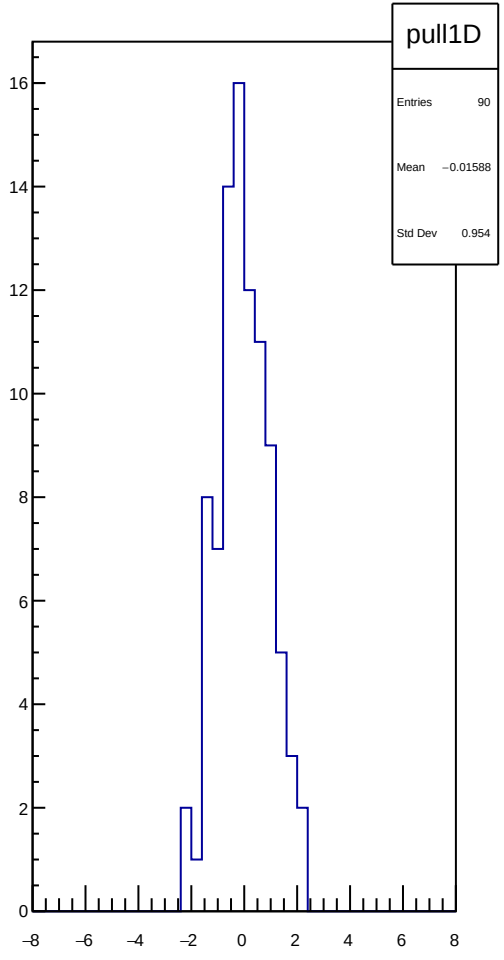

asym_atr2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.47e+05 / 89
p0 1.122e−10 ± 1.009e−13
1
0.8
0.6
0.4
0.2

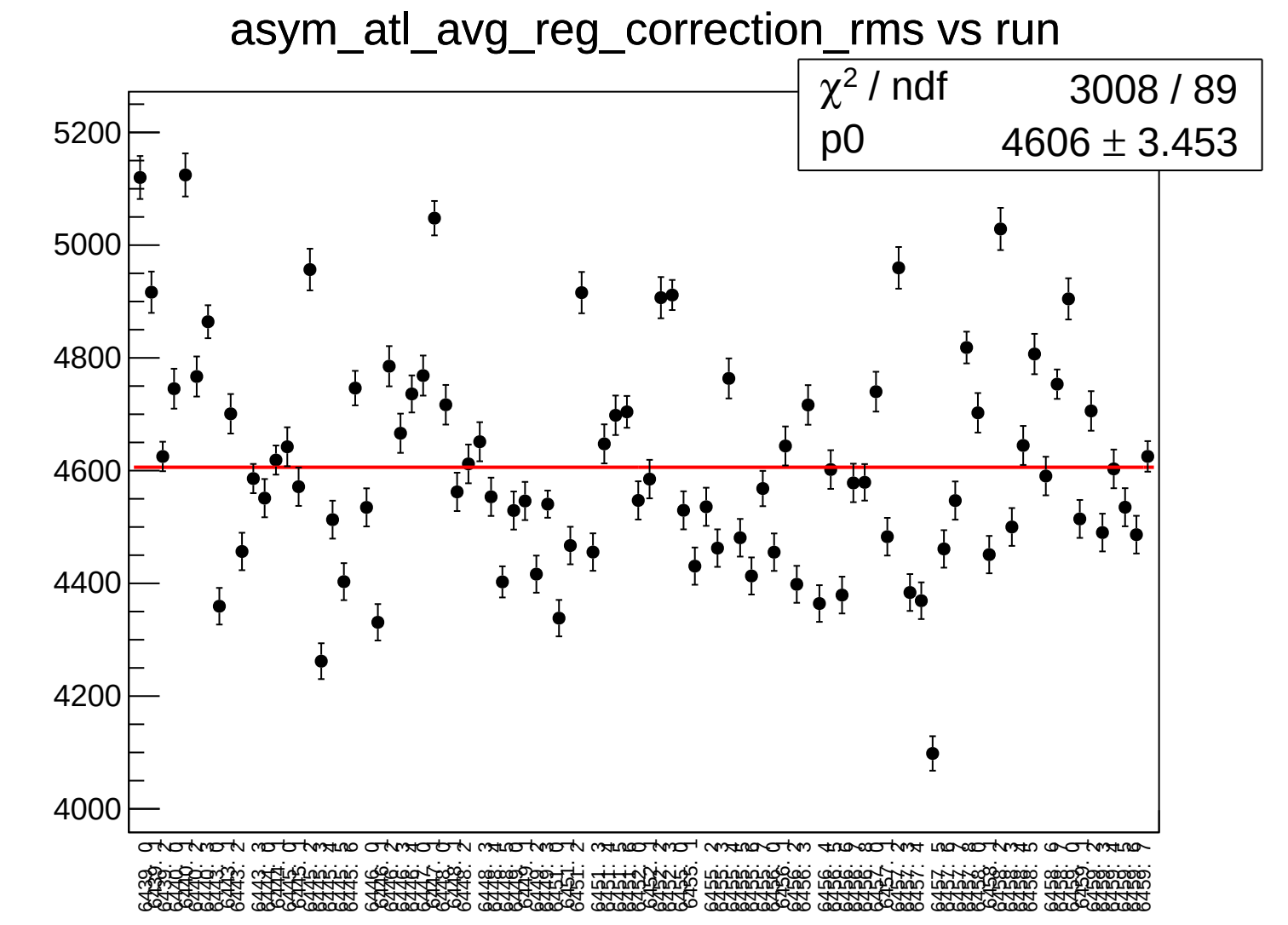

reg_asym_atl_avg_mean vs run
χ² / ndf 98.84 / 89
p0 826.8 ± 1892
pull
Entries 90
Mean 1366
Std Dev 0

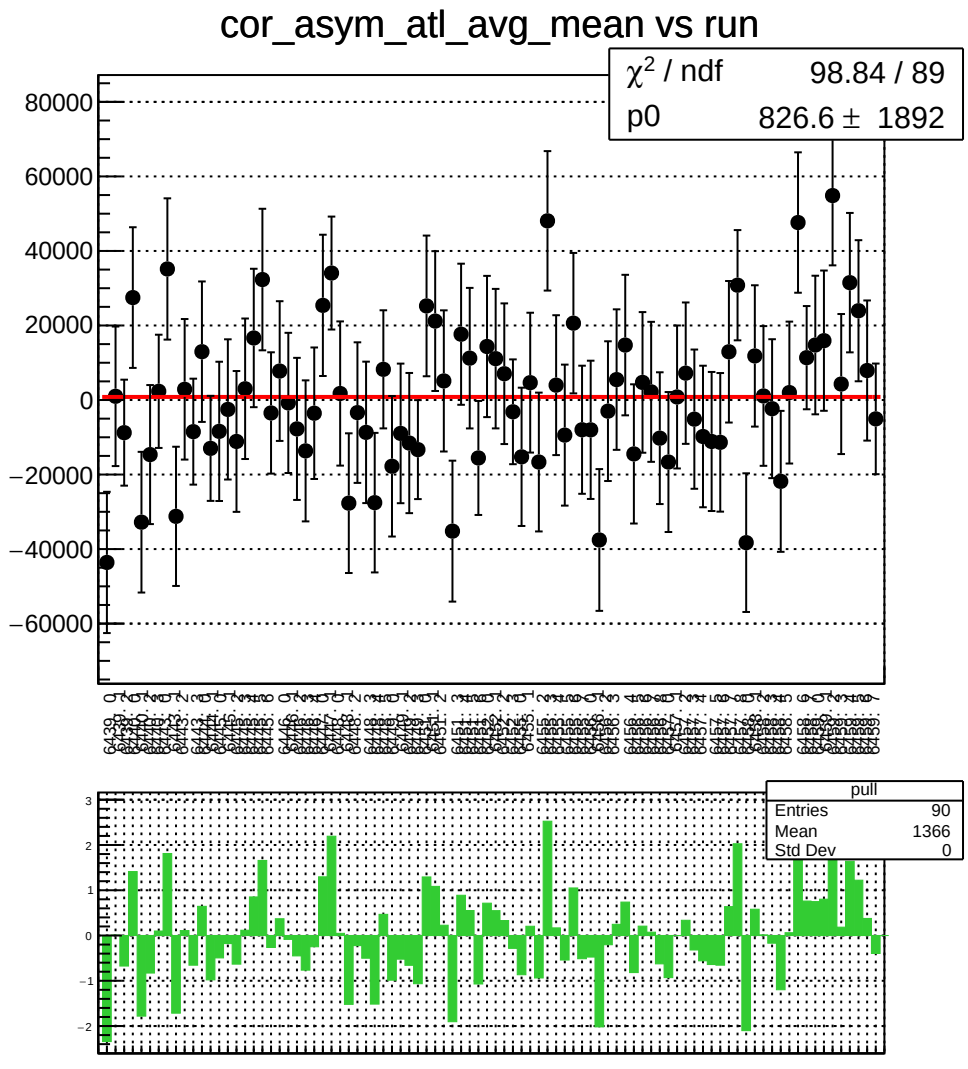

pull1D
Entries 90
Mean 0.00429
Std Dev 1.048

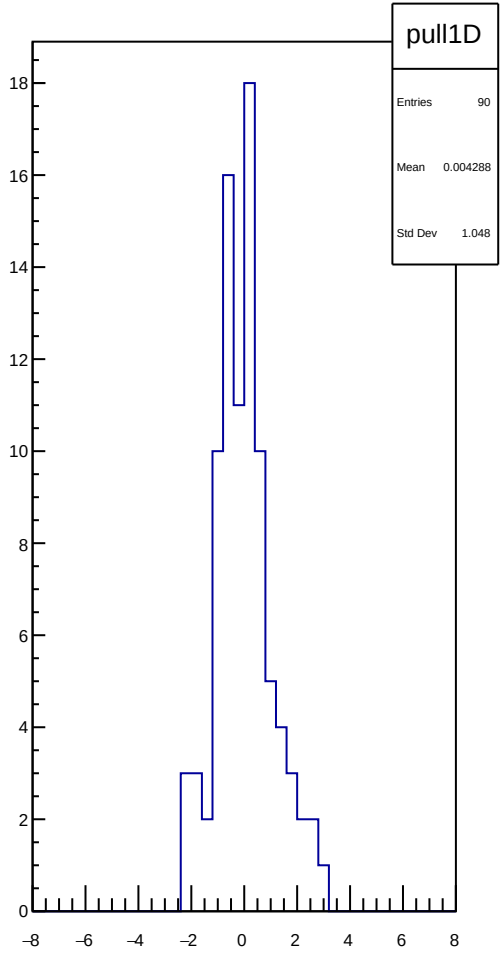

reg_asym_atl_avg_rms vs run
χ^2 / ndf 111 / 89
p0 1786 ± 1.338
1840
1820
1800
1780
1760
1740

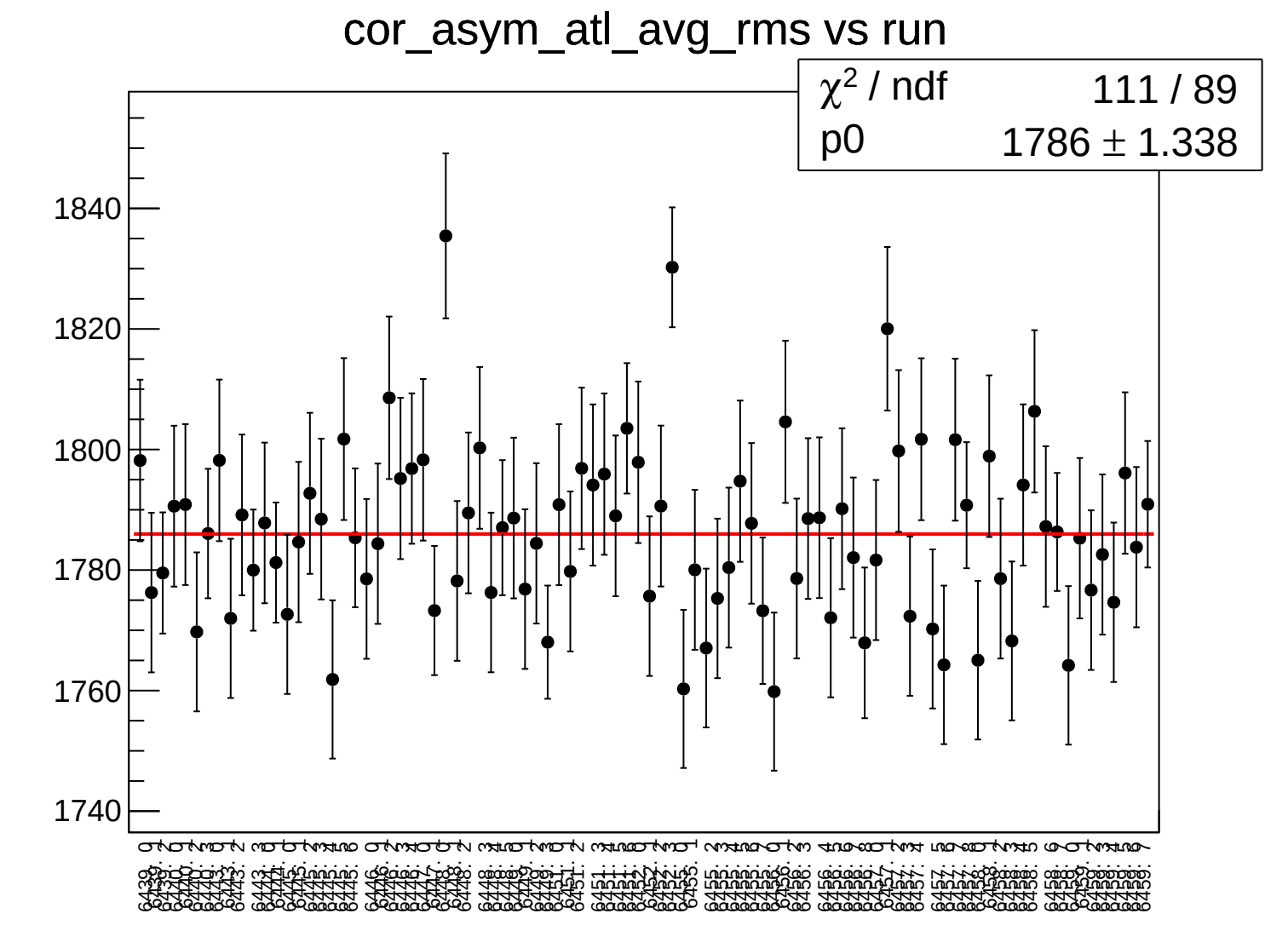

asym_atl_avg_reg_correction_mean vs run
×10^3
χ² / ndf 81.93 / 89
p0 −8110 ± 4884
150
100
50
0
−50
−100
−150
pull
Entries 90
Mean −136.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

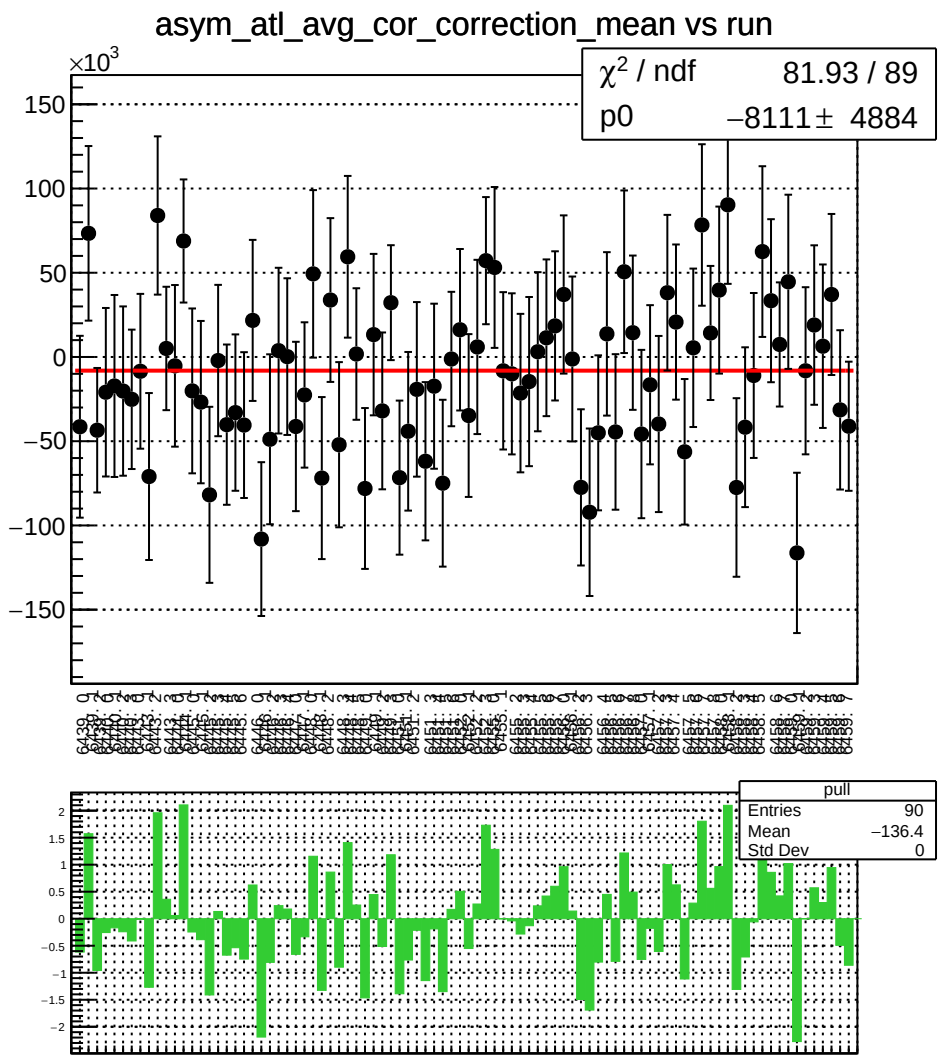

pull1D
Entries 90
Mean −0.01588
Std Dev 0.954
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

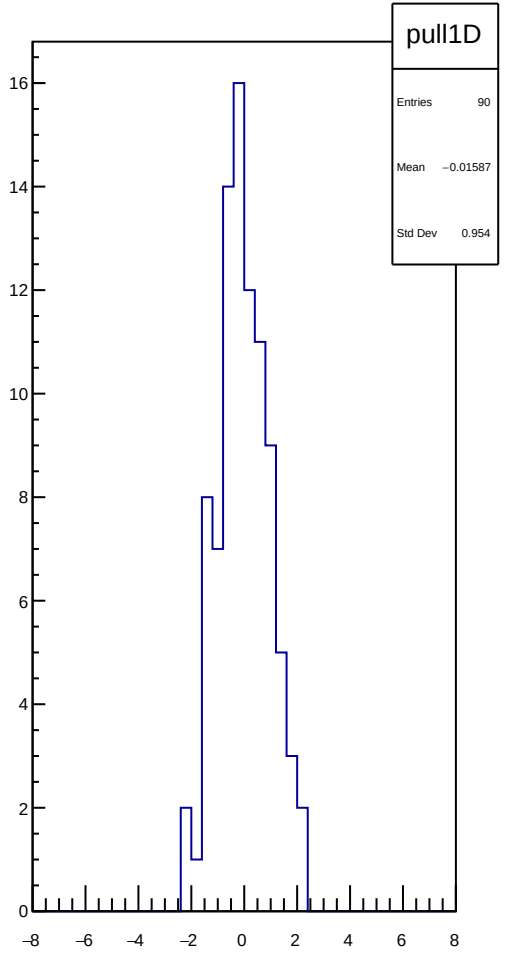

asym_atl_avg_reg_correction_rms vs run
χ^2 / ndf 3008 / 89
p0 4606 ± 3.453
5200
5000
4800
4600
4400
4200
4000

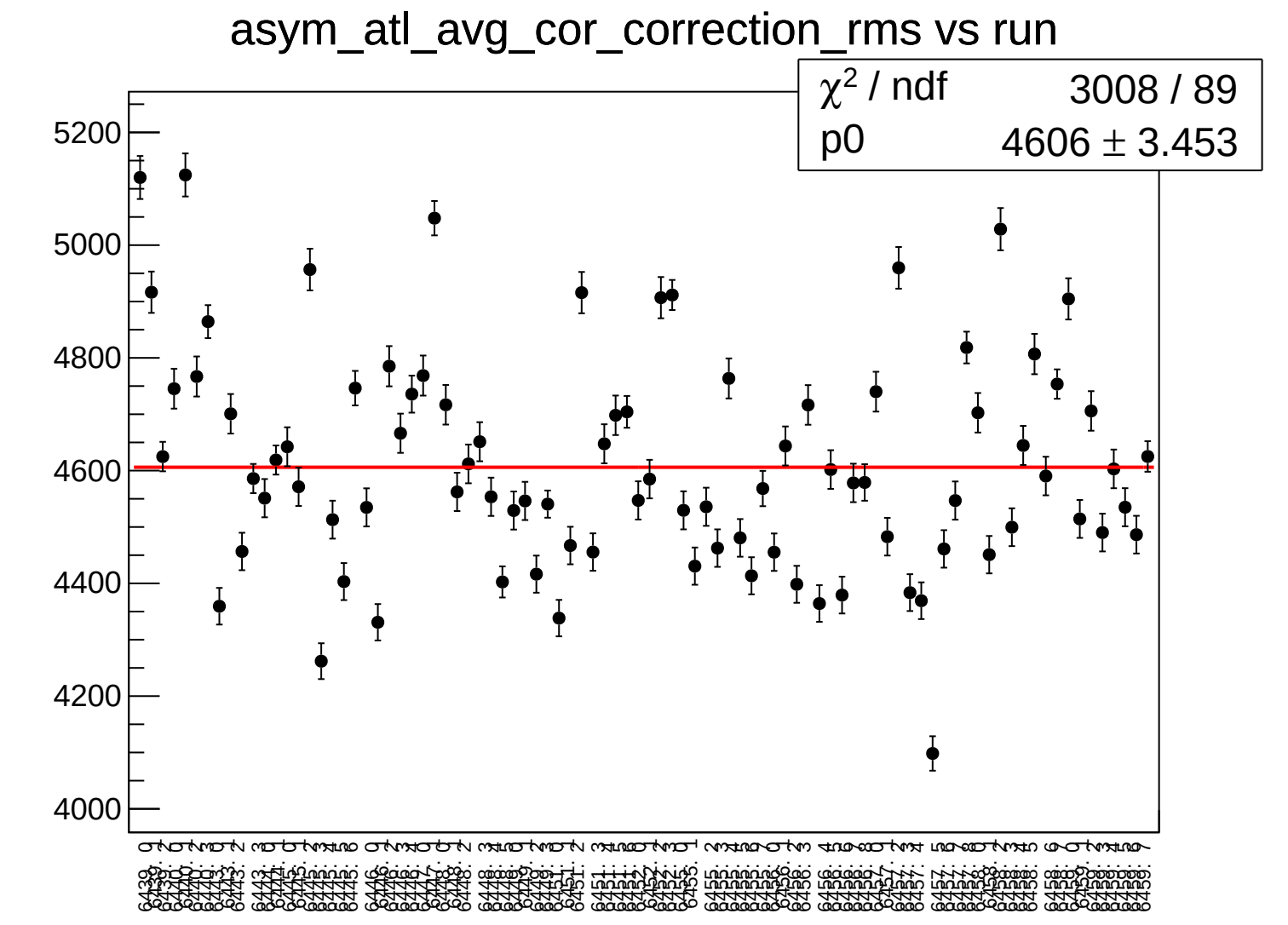

cor_asym_atl_avg_mean vs run
χ² / ndf 98.84 / 89
p0 826.6 ± 1892
pull
Entries 90
Mean 1366
Std Dev 0

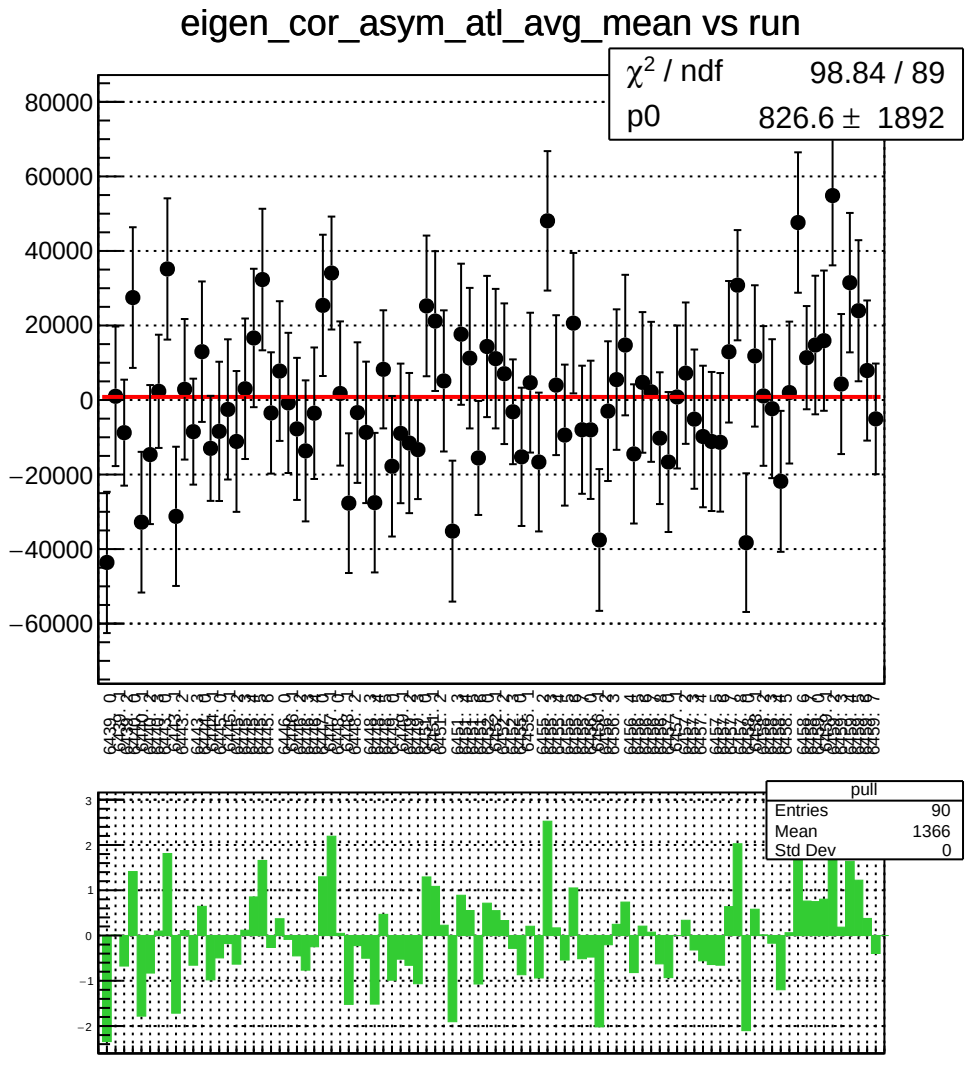

pull1D
Entries 90
Mean 0.004288
Std Dev 1.048

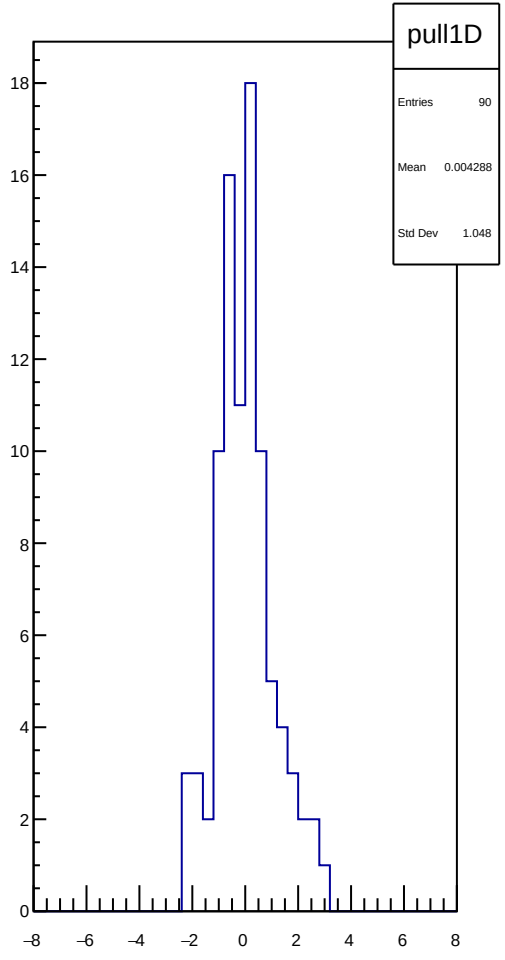

cor_asym_atl_avg_rms vs run
χ² / ndf 111 / 89
p0 1786 ± 1.338
1840
1820
1800
1780
1760
1740

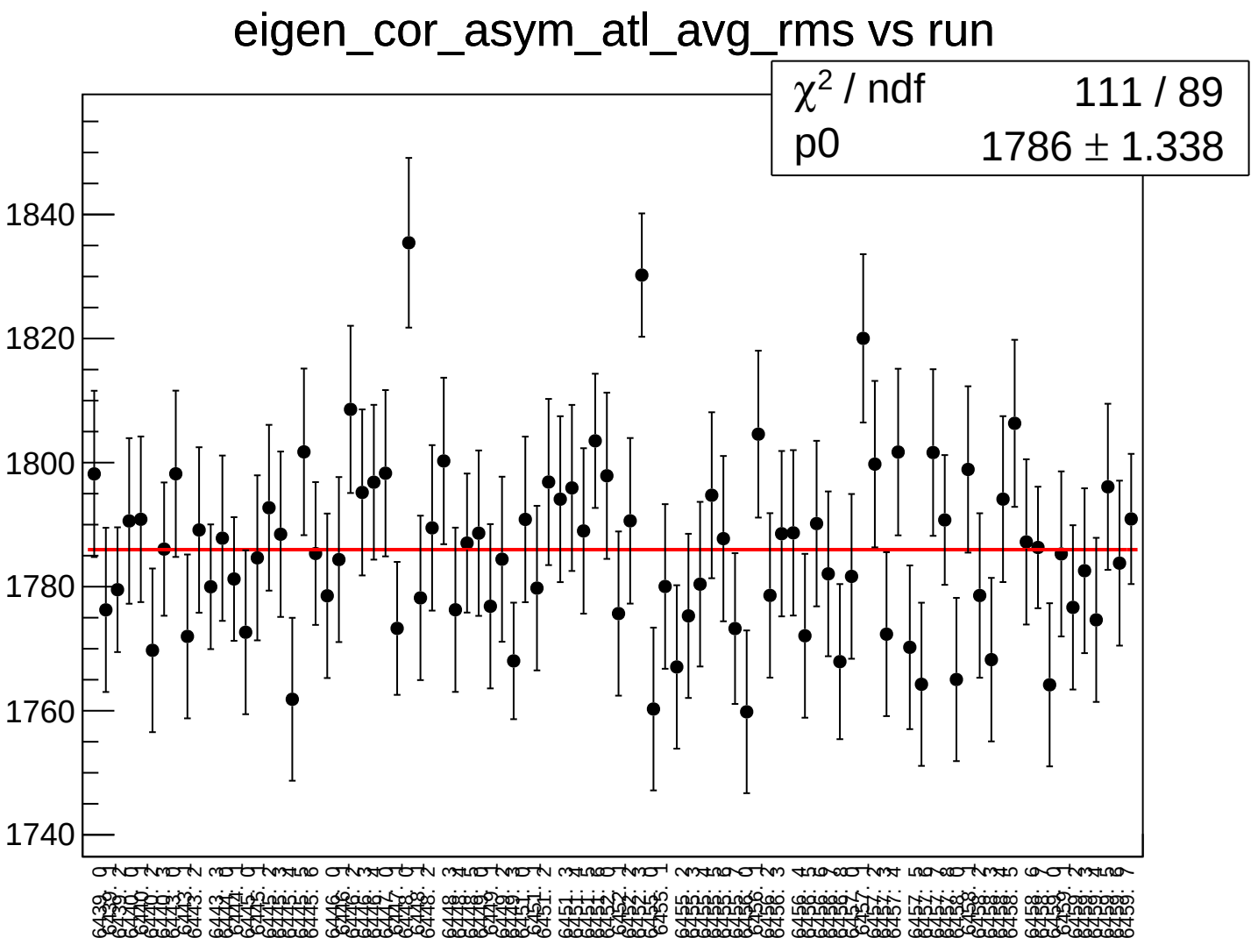

asym_atl_avg_cor_correction_mean vs run
×10^3
χ² / ndf 81.93 / 89
p0 −8111 ± 4884
150
100
50
0
−50
−100
−150
pull
Entries 90
Mean −136.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

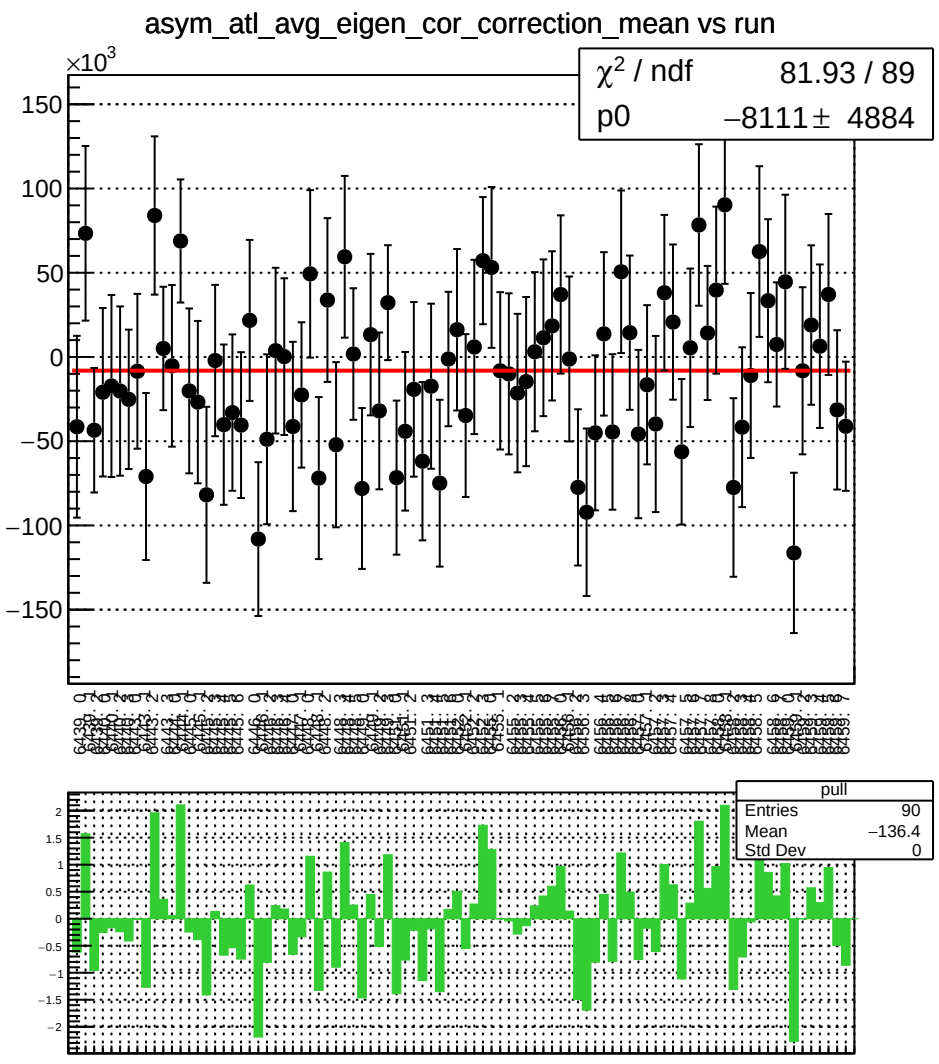

pull1D
Entries 90
Mean −0.01587
Std Dev 0.954
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

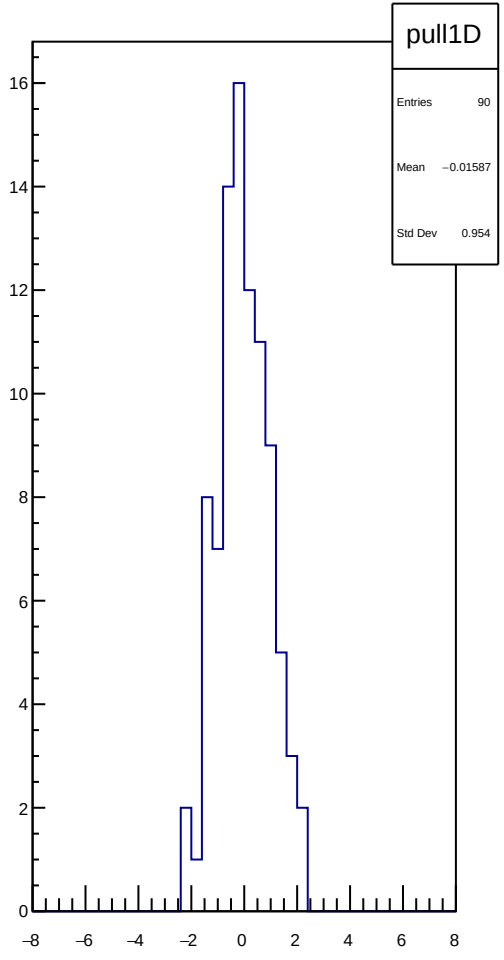

asym_atl_avg_cor_correction_rms vs run
χ² / ndf 3008 / 89
p0 4606 ± 3.453
5200
5000
4800
4600
4400
4200
4000

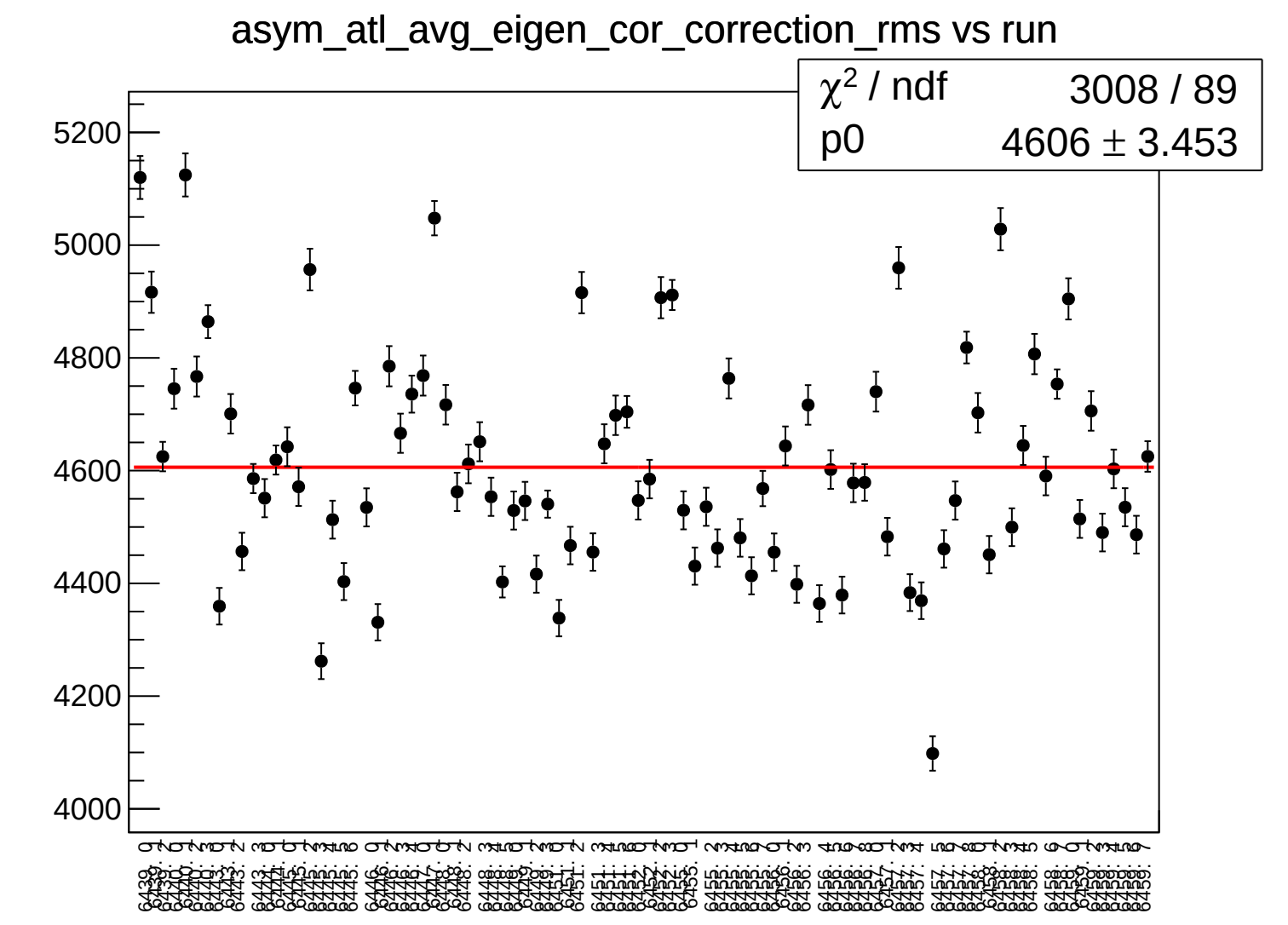

eigen_cor_asym_atl_avg_mean vs run
χ² / ndf 98.84 / 89
p0 826.6 ± 1892
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 1366
Std Dev 0
3
2
1
0
−1
−2

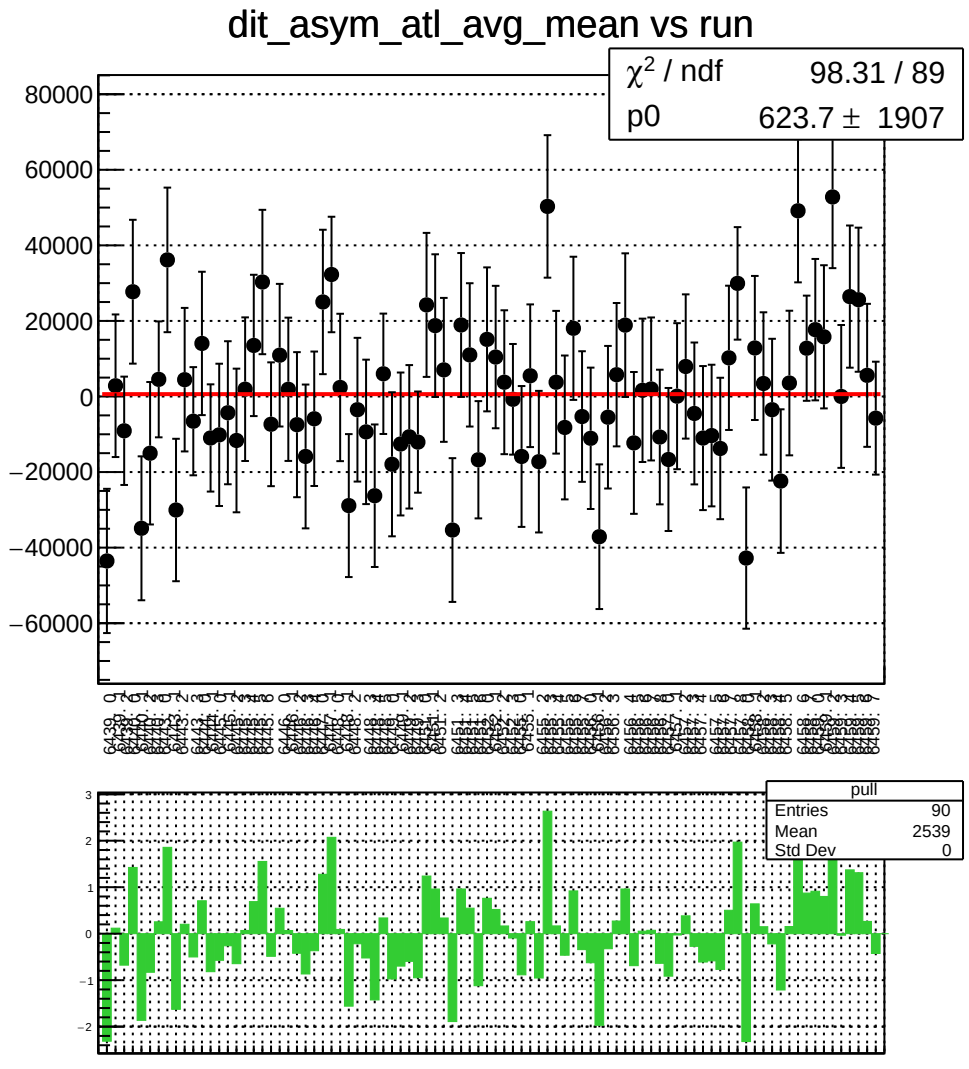

pull1D
Entries 90
Mean 0.004288
Std Dev 1.048
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

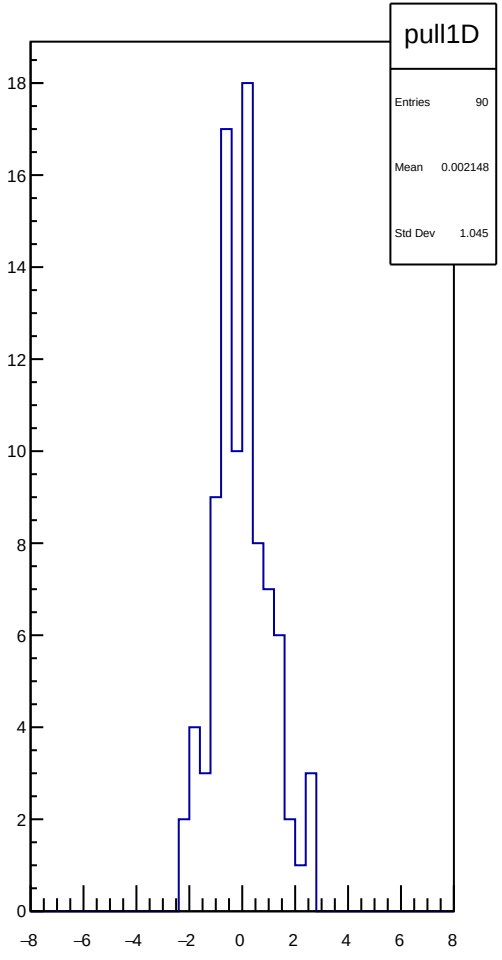

eigen_cor_asym_atl_avg_rms vs run
χ² / ndf 111 / 89
p0 1786 ± 1.338
1840
1820
1800
1780
1760
1740

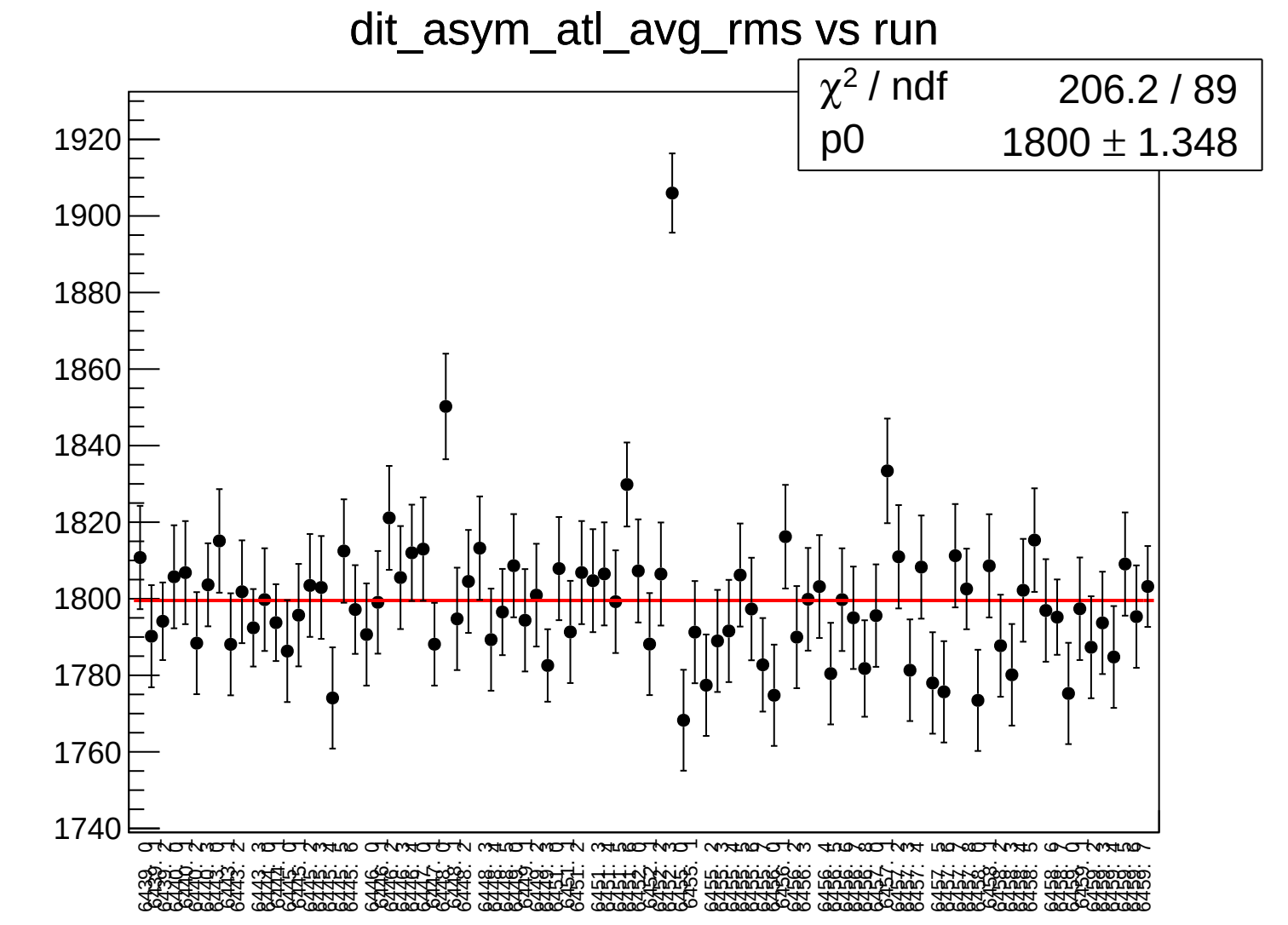

asym_atl_avg_eigen_cor_correction_mean vs run
χ² / ndf 81.93 / 89
p0 −8111 ± 4884
×10³
150
100
50
0
−50
−100
−150
pull
Entries 90
Mean −136.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

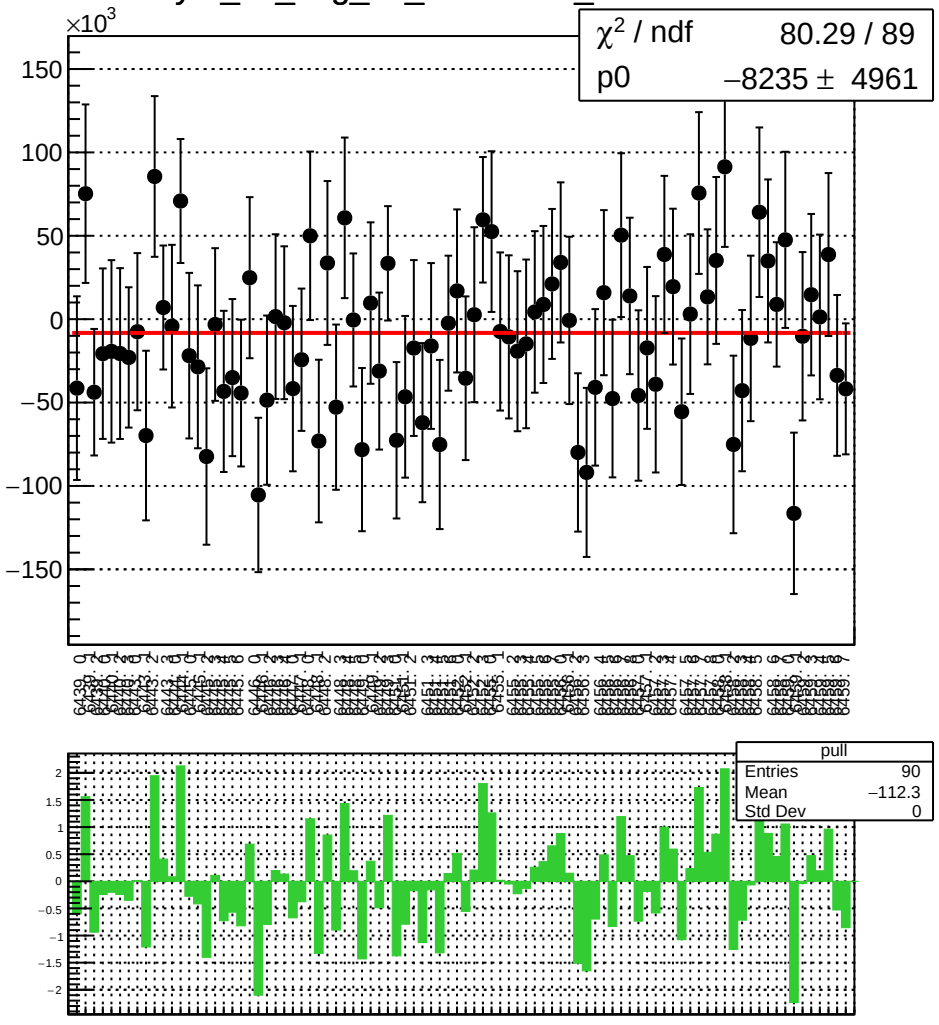

pull1D
Entries 90
Mean −0.01587
Std Dev 0.954
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

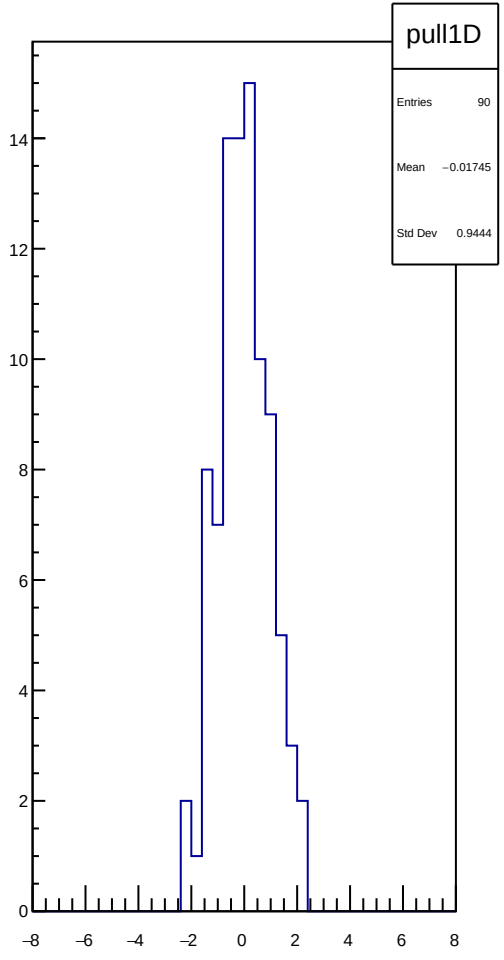

asym_atl_avg_eigen_cor_correction_rms vs run
χ² / ndf 3008 / 89
p0 4606 ± 3.453
5200
5000
4800
4600
4400
4200
4000

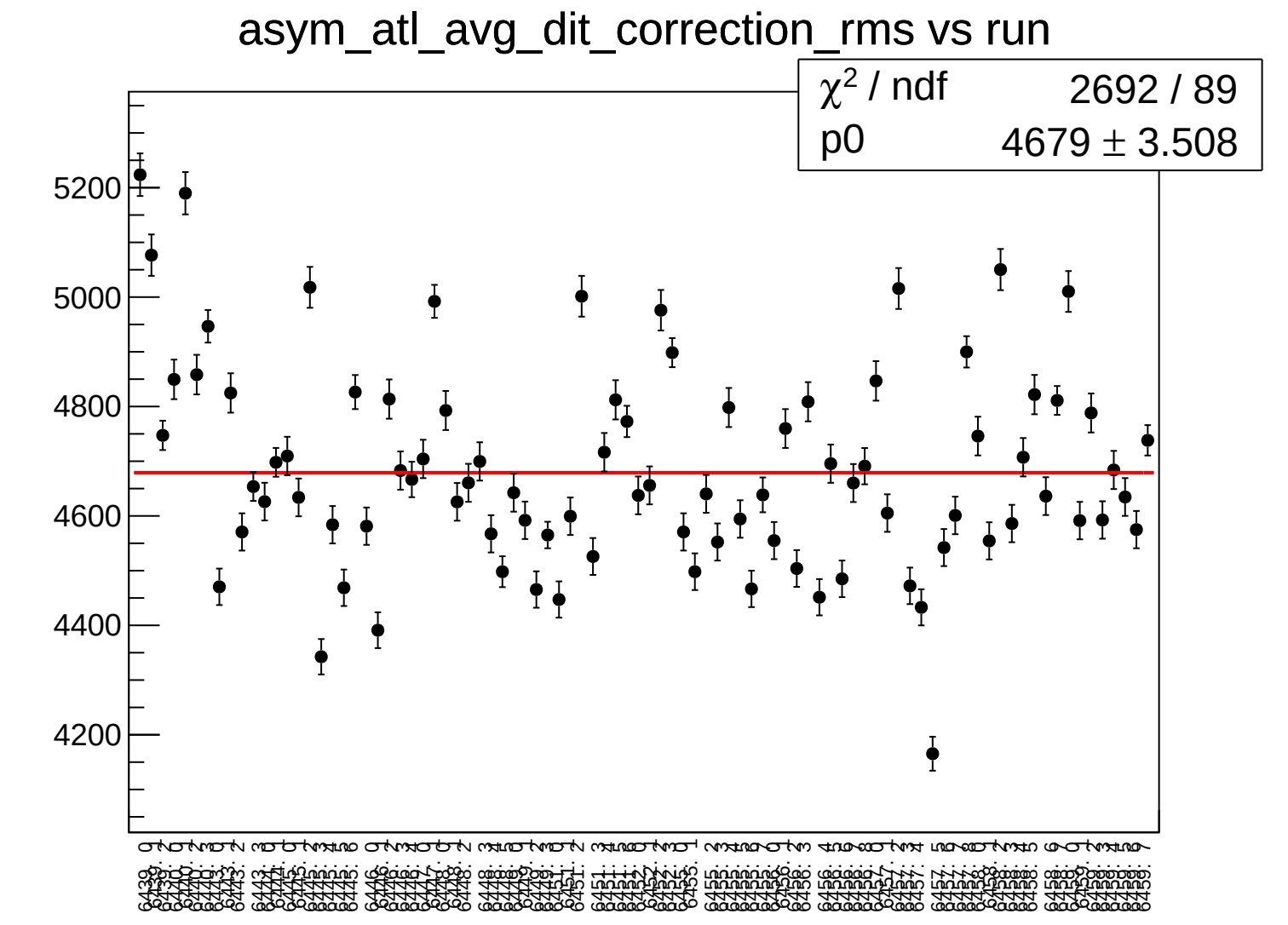

dit_asym_atl_avg_mean vs run
χ² / ndf 98.31 / 89
p0 623.7 ± 1907
pull
Entries 90
Mean 2539
Std Dev 0

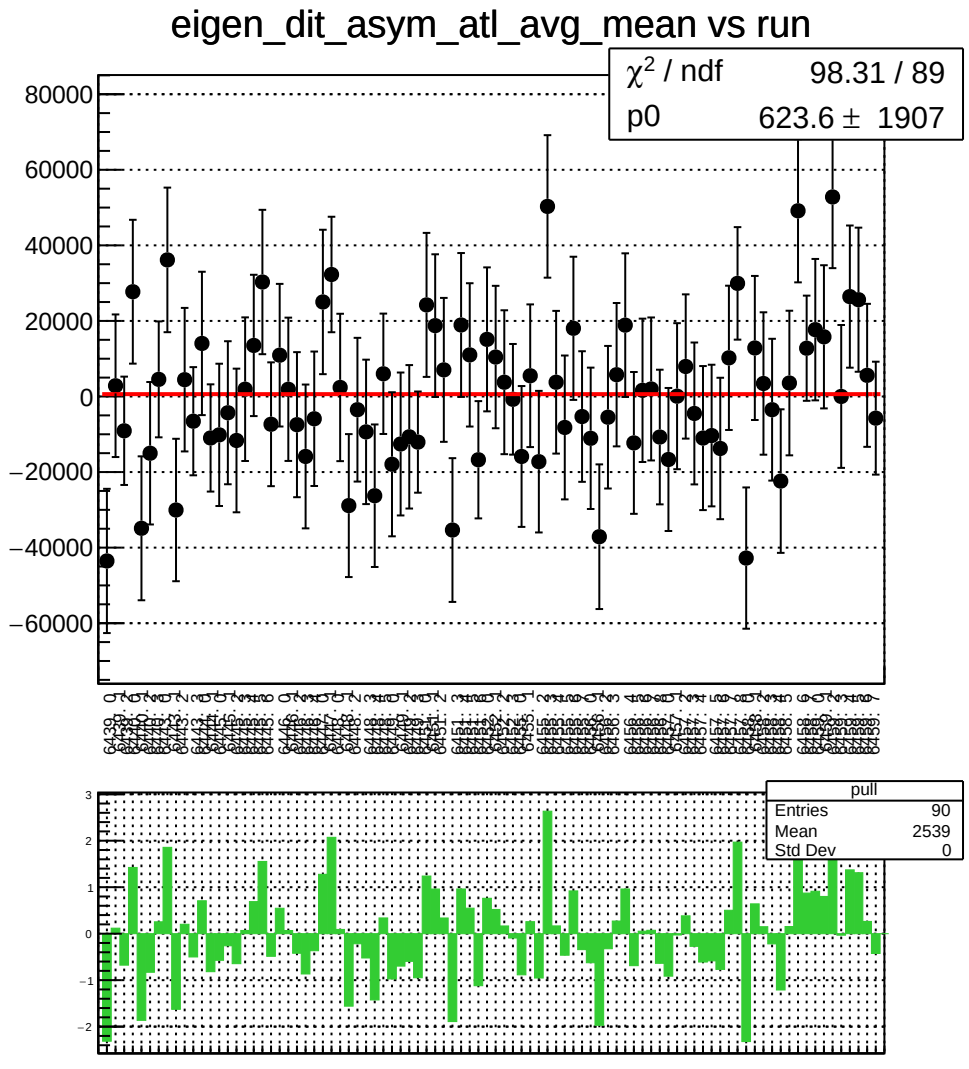

pull1D
Entries 90
Mean 0.002148
Std Dev 1.045

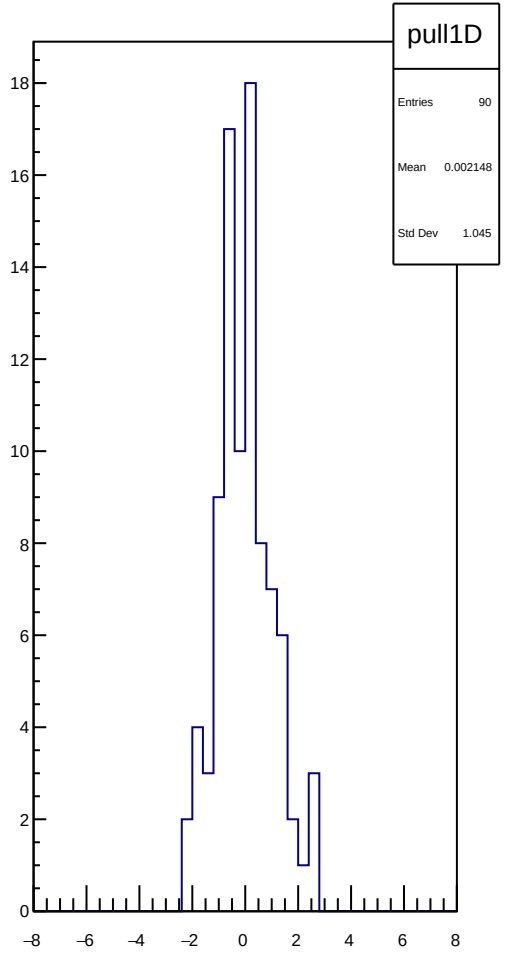

dit_asym_atl_avg_rms vs run
χ² / ndf 206.2 / 89
p0 1800 ± 1.348
1920
1900
1880
1860
1840
1820
1800
1780
1760
1740

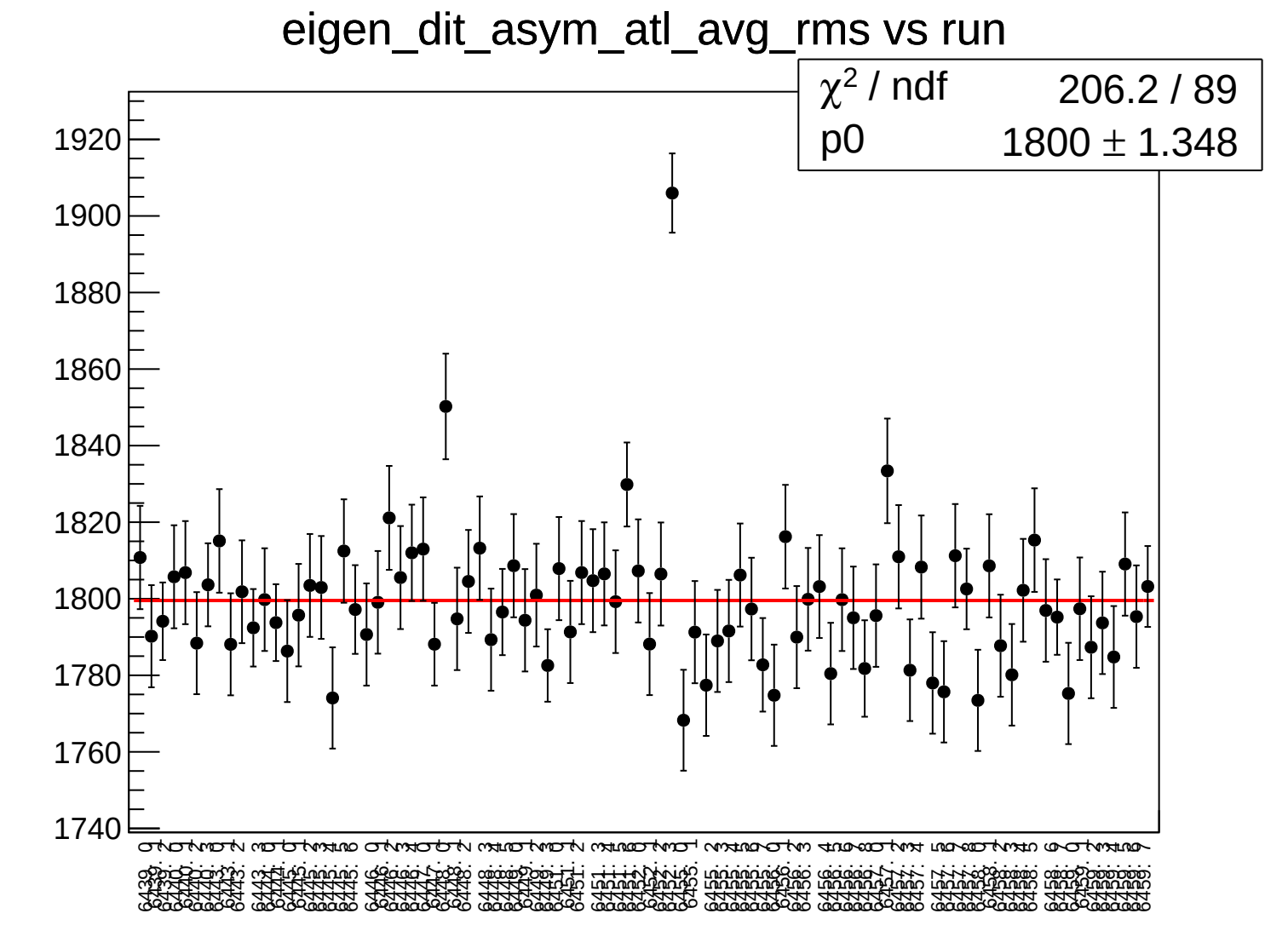

asym_atl_avg_dit_correction_mean vs run
×10^3
χ² / ndf 80.29 / 89
p0 −8235 ± 4961
150
100
50
0
−50
−100
−150
pull
Entries 90
Mean −112.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

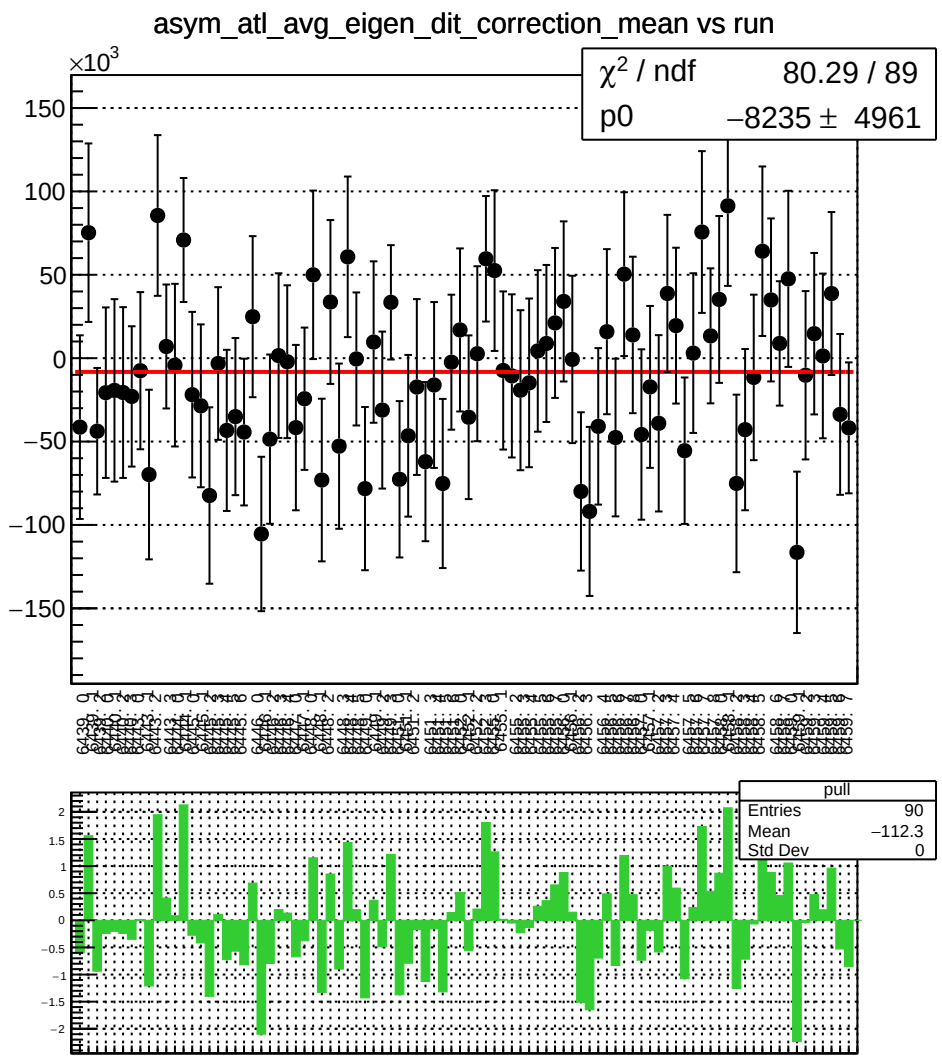

pull1D
Entries 90
Mean −0.01745
Std Dev 0.9444
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

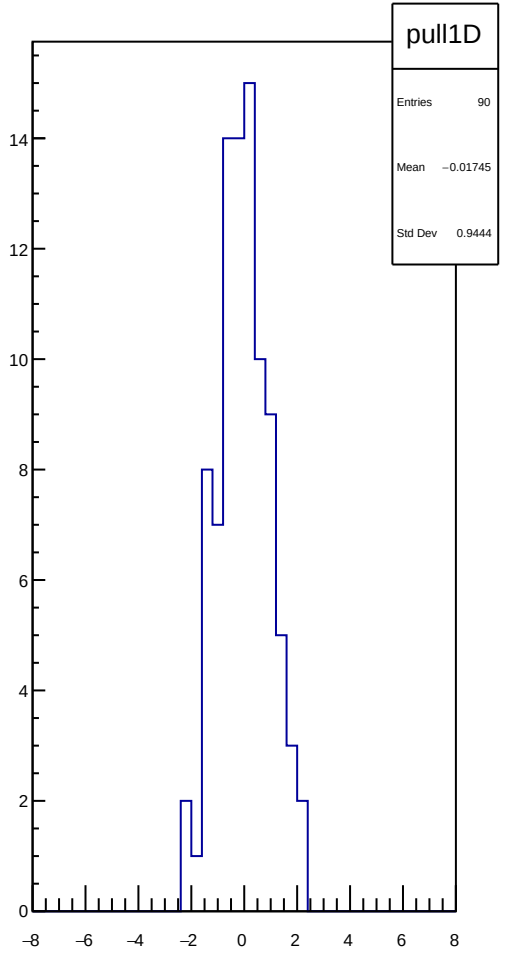

asym_atl_avg_dit_correction_rms vs run
χ² / ndf 2692 / 89
p0 4679 ± 3.508
5200
5000
4800
4600
4400
4200

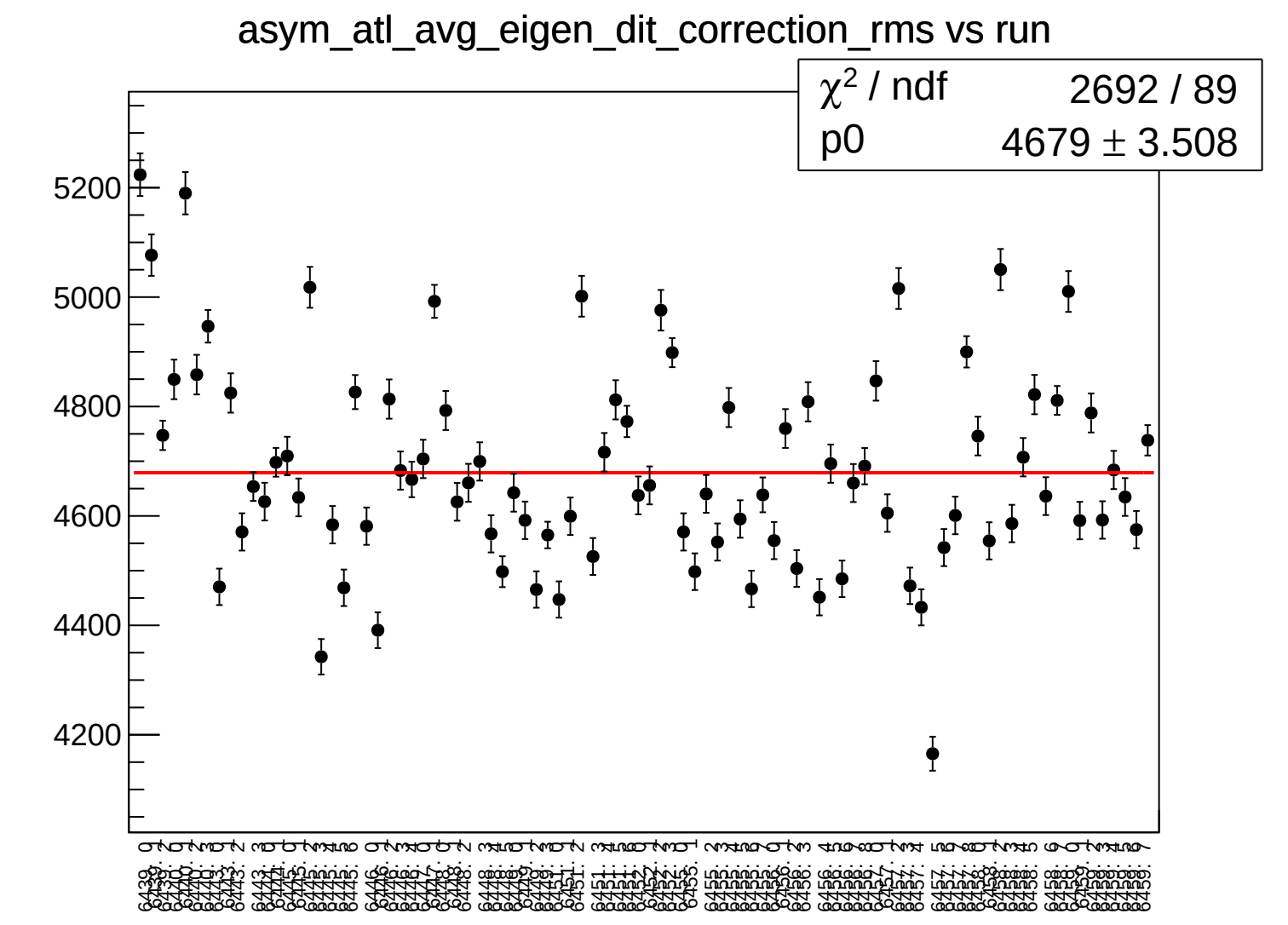

eigen_dit_asym_atl_avg_mean vs run
χ² / ndf 98.31 / 89
p0 623.6 ± 1907
pull
Entries 90
Mean 2539
Std Dev 0

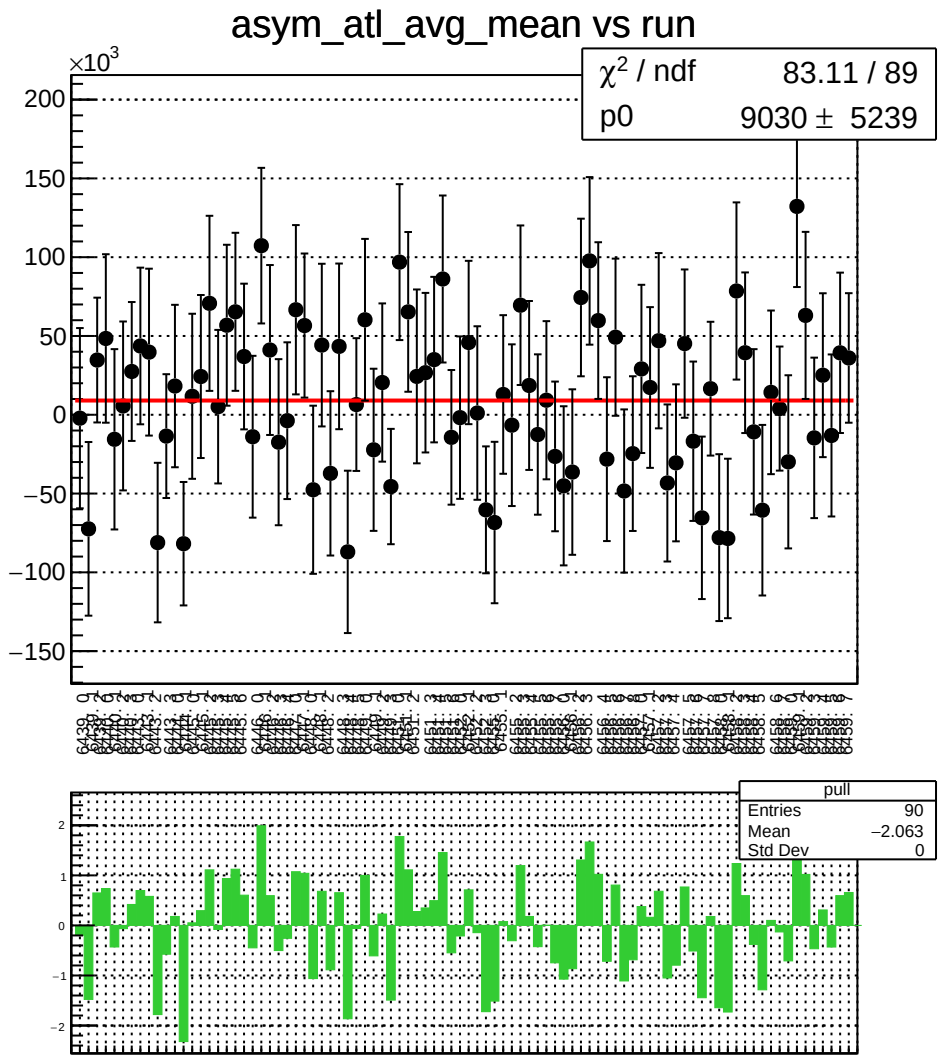

pull1D
Entries 90
Mean 0.002148
Std Dev 1.045

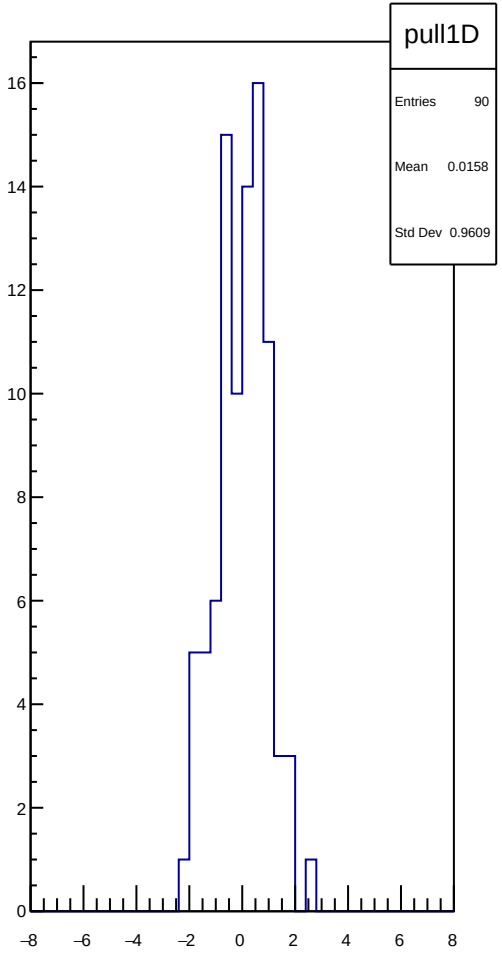

eigen_dit_asym_atl_avg_rms vs run
χ^2 / ndf 206.2 / 89
p0 1800 ± 1.348
1920
1900
1880
1860
1840
1820
1800
1780
1760
1740

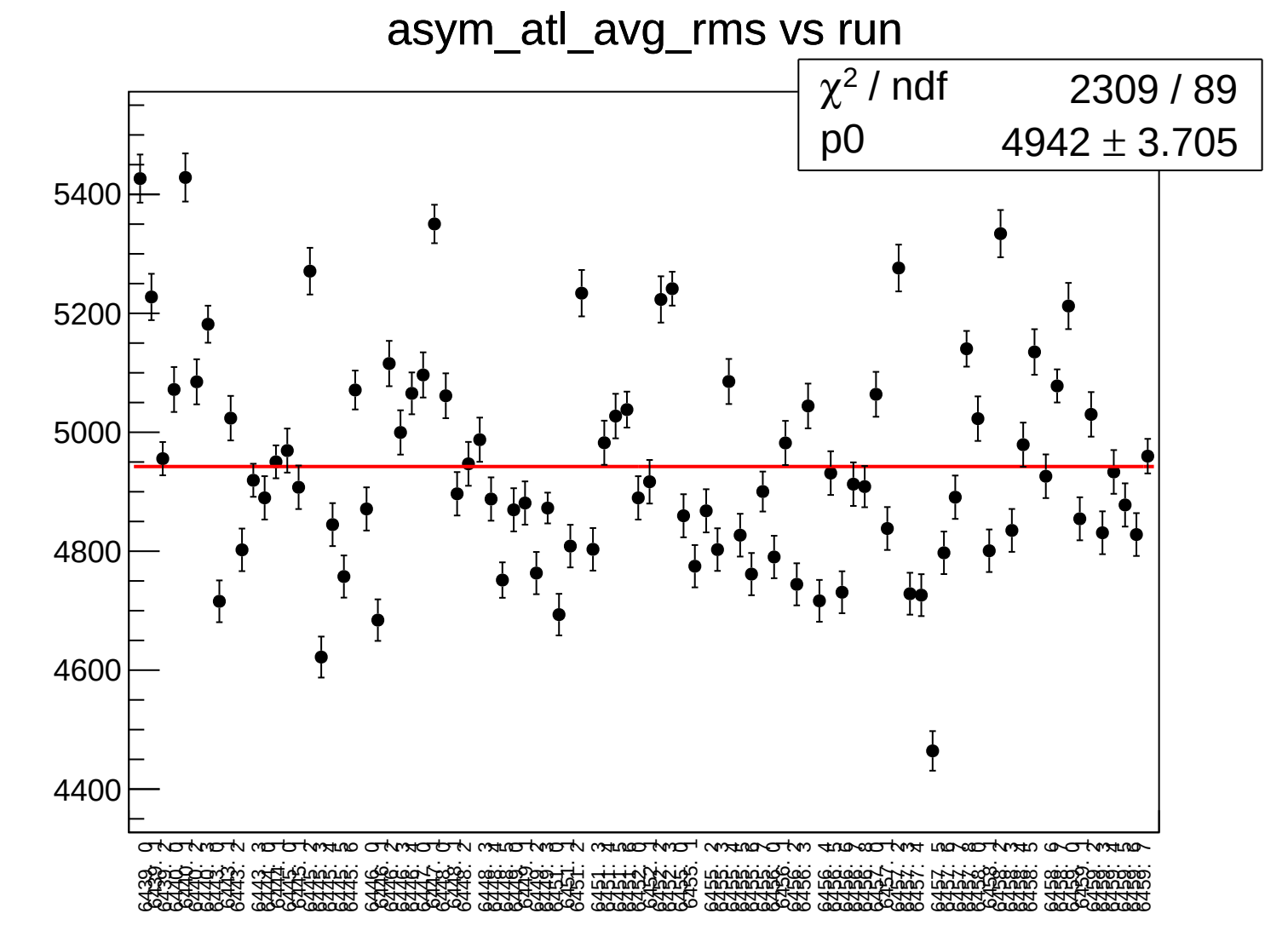

asym_atl_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 80.29 / 89
p0 −8235 ± 4961
150
100
50
0
−50
−100
−150
pull
Entries 90
Mean −112.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

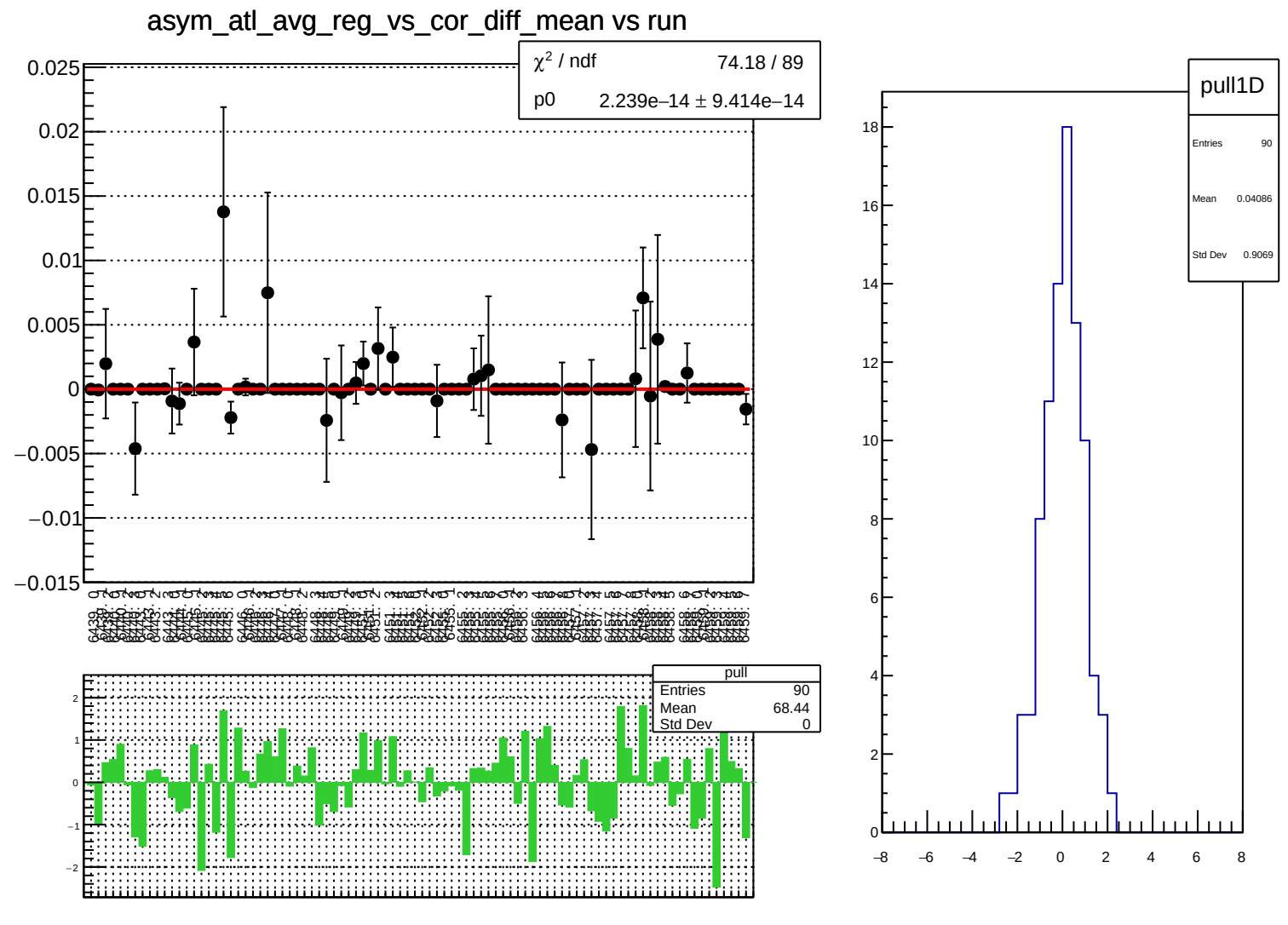

pull1D
Entries 90
Mean −0.01745
Std Dev 0.9444
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

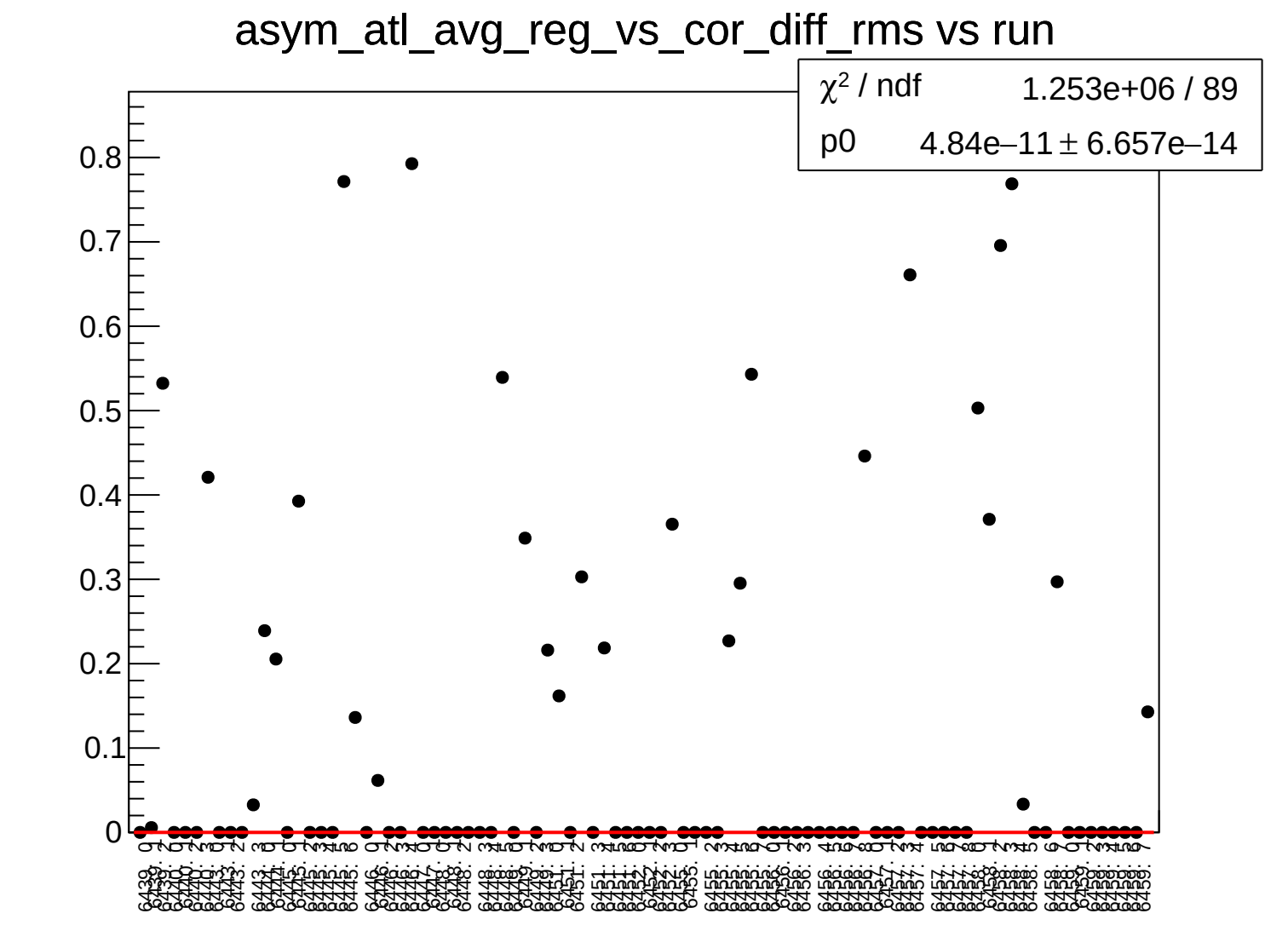

asym_atl_avg_eigen_dit_correction_rms vs run
χ² / ndf 2692 / 89
p0 4679 ± 3.508
5200
5000
4800
4600
4400
4200

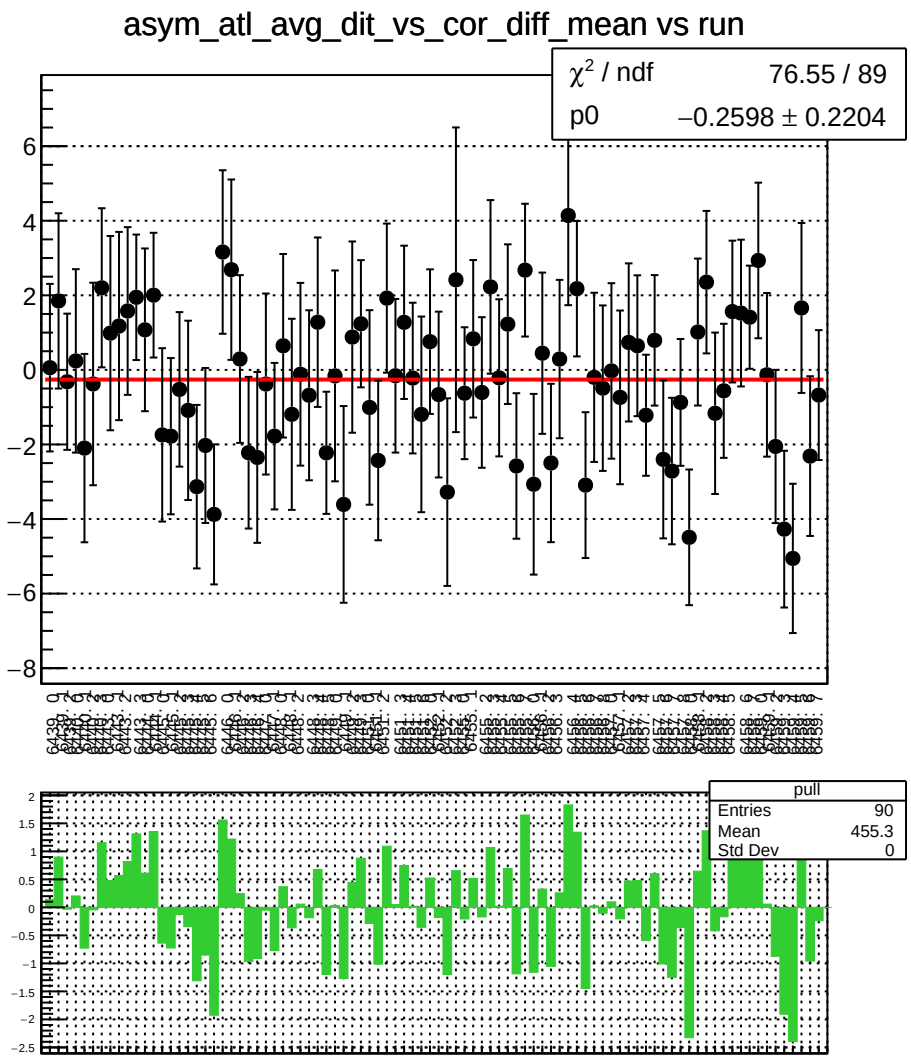

asym_atl_avg_mean vs run
×10^3
χ² / ndf 83.11 / 89
p0 9030 ± 5239
200
150
100
50
0
−50
−100
−150
pull
Entries 90
Mean −2.063
Std Dev 0
2
1
0
−1
−2

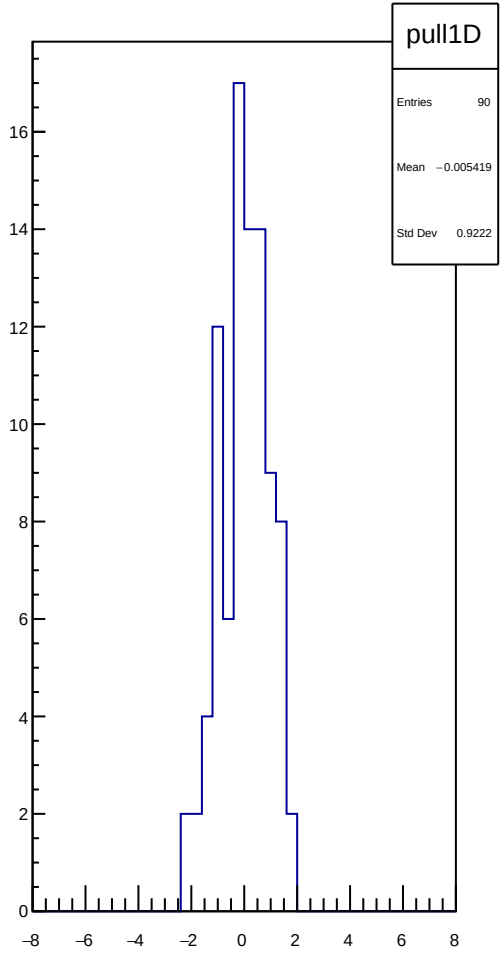

pull1D
Entries 90
Mean 0.0158
Std Dev 0.9609
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

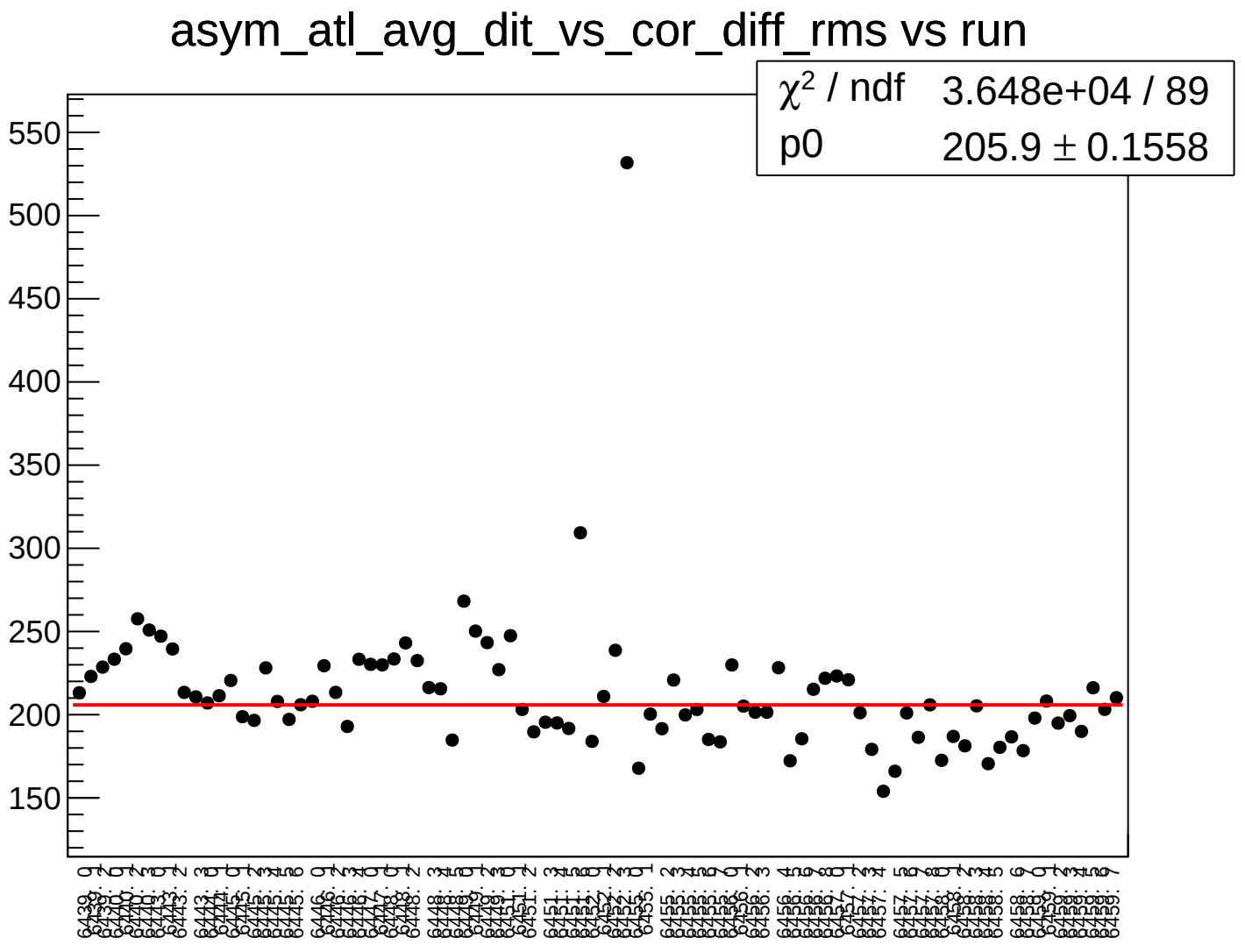

asym_atl_avg_rms vs run
χ² / ndf 2309 / 89
p0 4942 ± 3.705
5400
5200
5000
4800
4600
4400

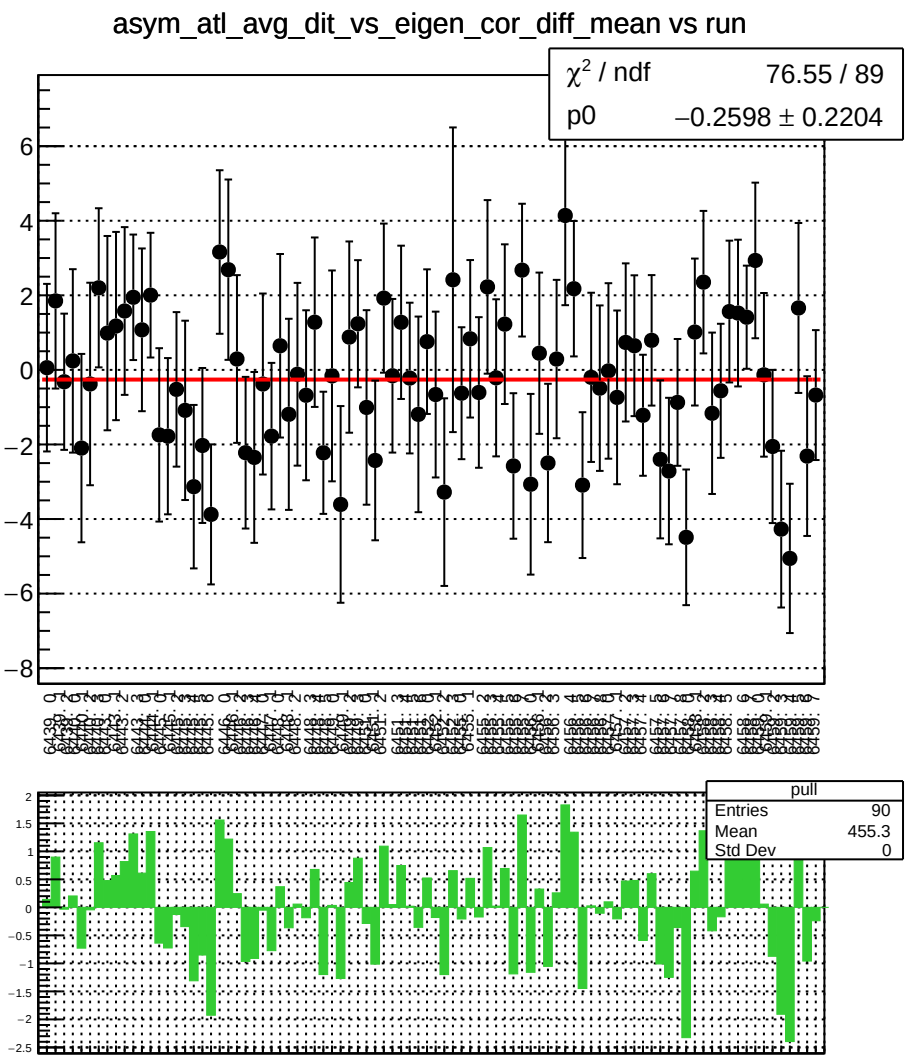

asym_atl_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 74.18 / 89
p0 2.239e−14 ± 9.414e−14
pull
Entries 90
Mean 68.44
Std Dev 0
pull1D
Entries 90
Mean 0.04086
Std Dev 0.9069

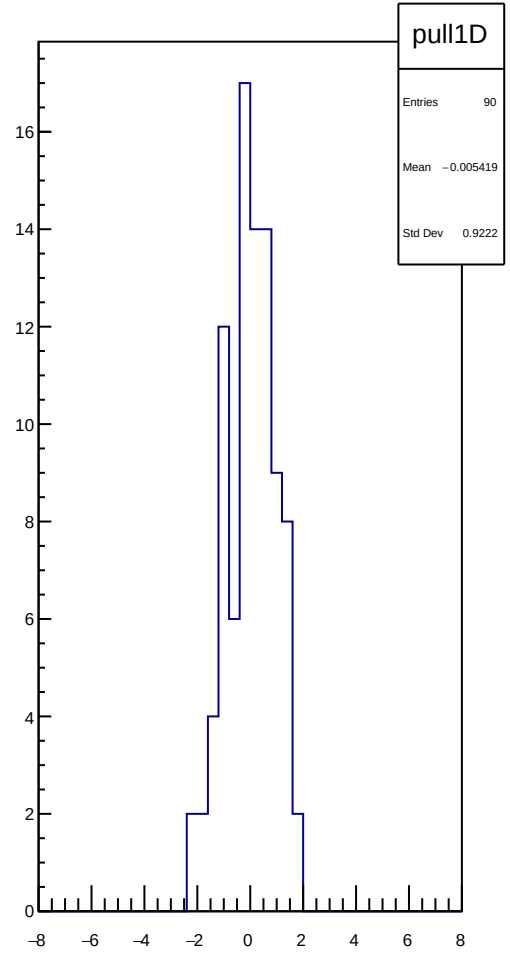

asym_atl_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.253e+06 / 89
p0 4.84e−11 ± 6.657e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

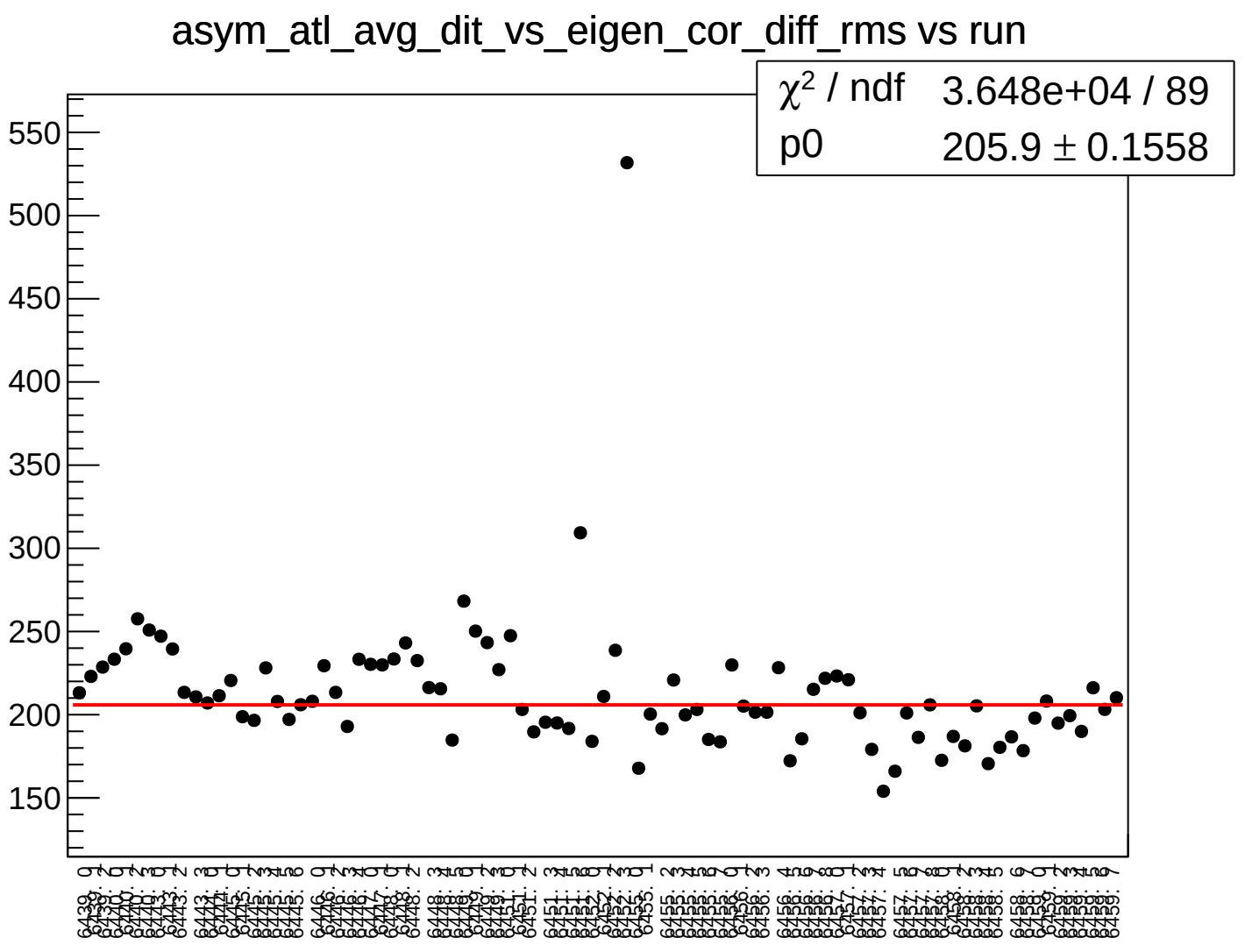

asym_atl_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 76.55 / 89
p0 −0.2598 ± 0.2204
pull
Entries 90
Mean 455.3
Std Dev 0

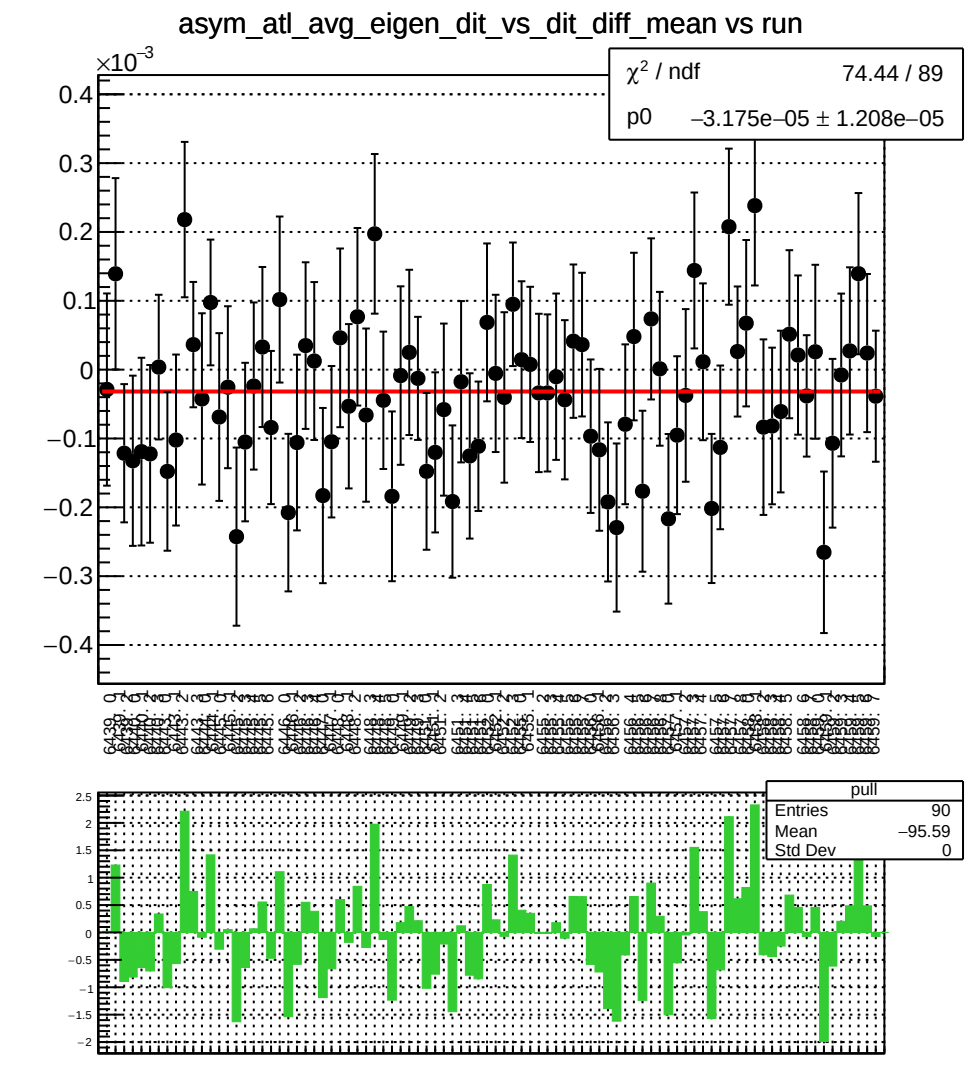

pull1D
Entries 90
Mean −0.005419
Std Dev 0.9222

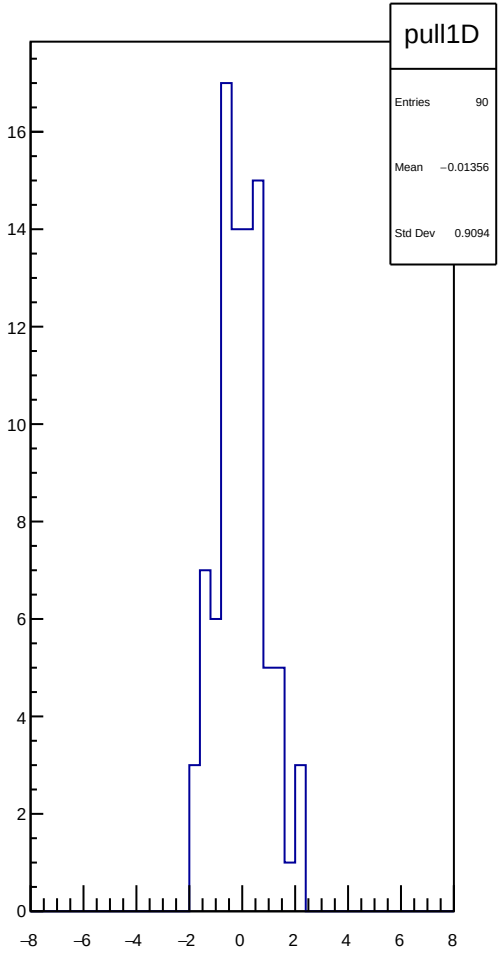

asym_atl_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.648e+04 / 89
p0 205.9 ± 0.1558
550
500
450
400
350
300
250
200
150

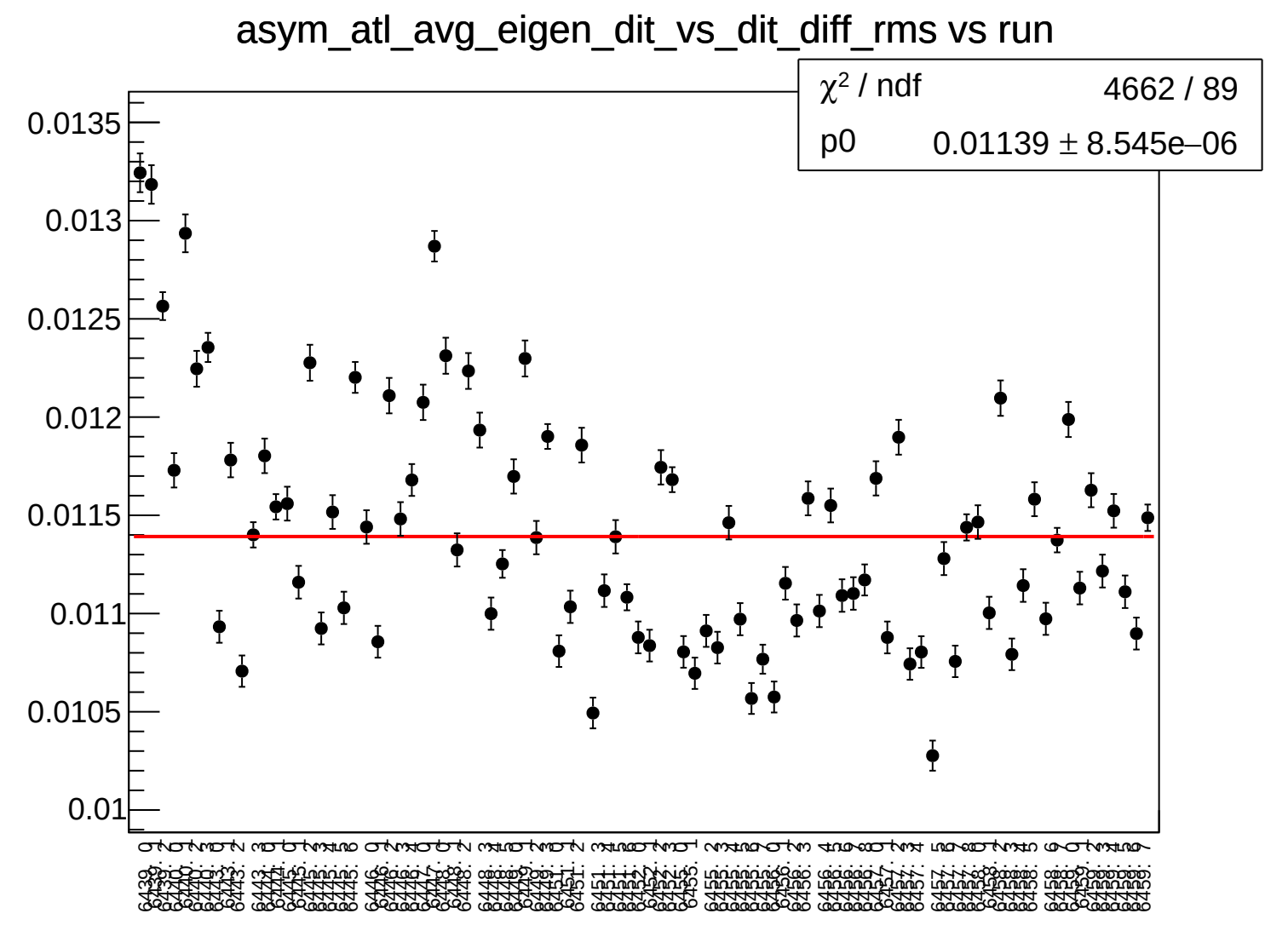

asym_atl_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.55 / 89
p0 −0.2598 ± 0.2204
pull
Entries 90
Mean 455.3
Std Dev 0

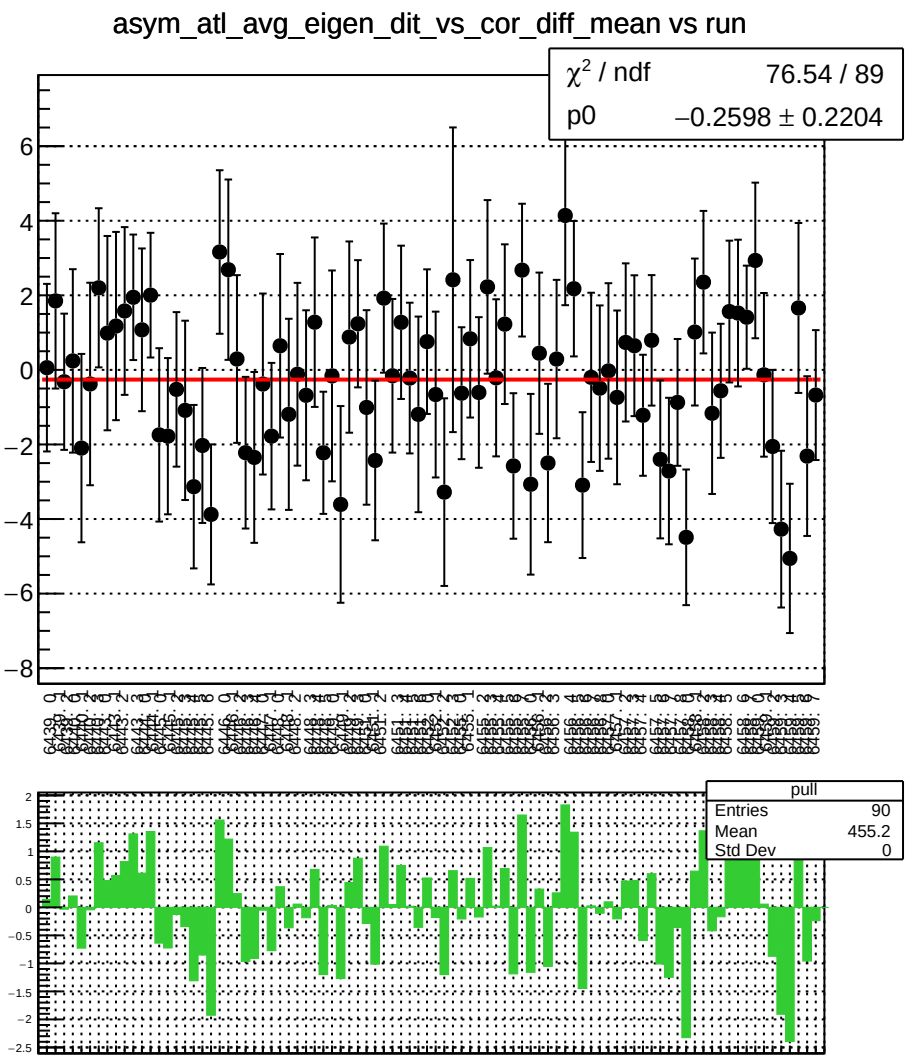

pull1D
Entries 90
Mean −0.005419
Std Dev 0.9222

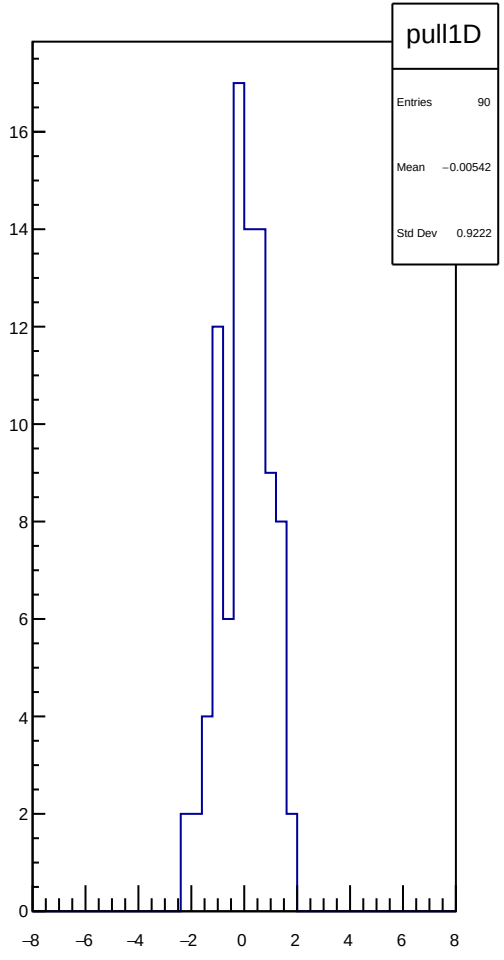

asym_atl_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.648e+04 / 89
p0 205.9 ± 0.1558
550
500
450
400
350
300
250
200
150

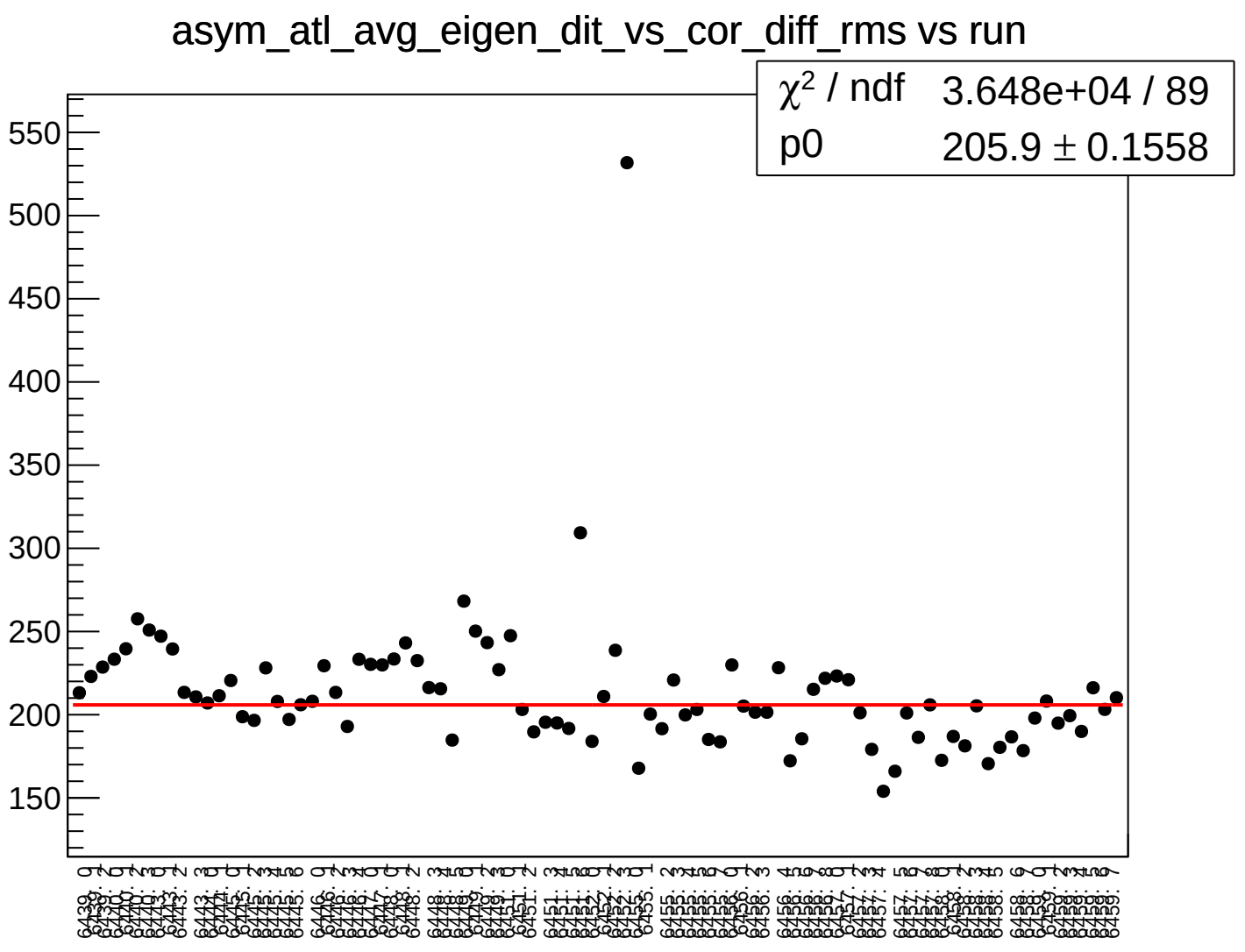

asym_atl_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 74.44 / 89
p0 −3.175e−05 ± 1.208e−05
pull
Entries 90
Mean −95.59
Std Dev 0

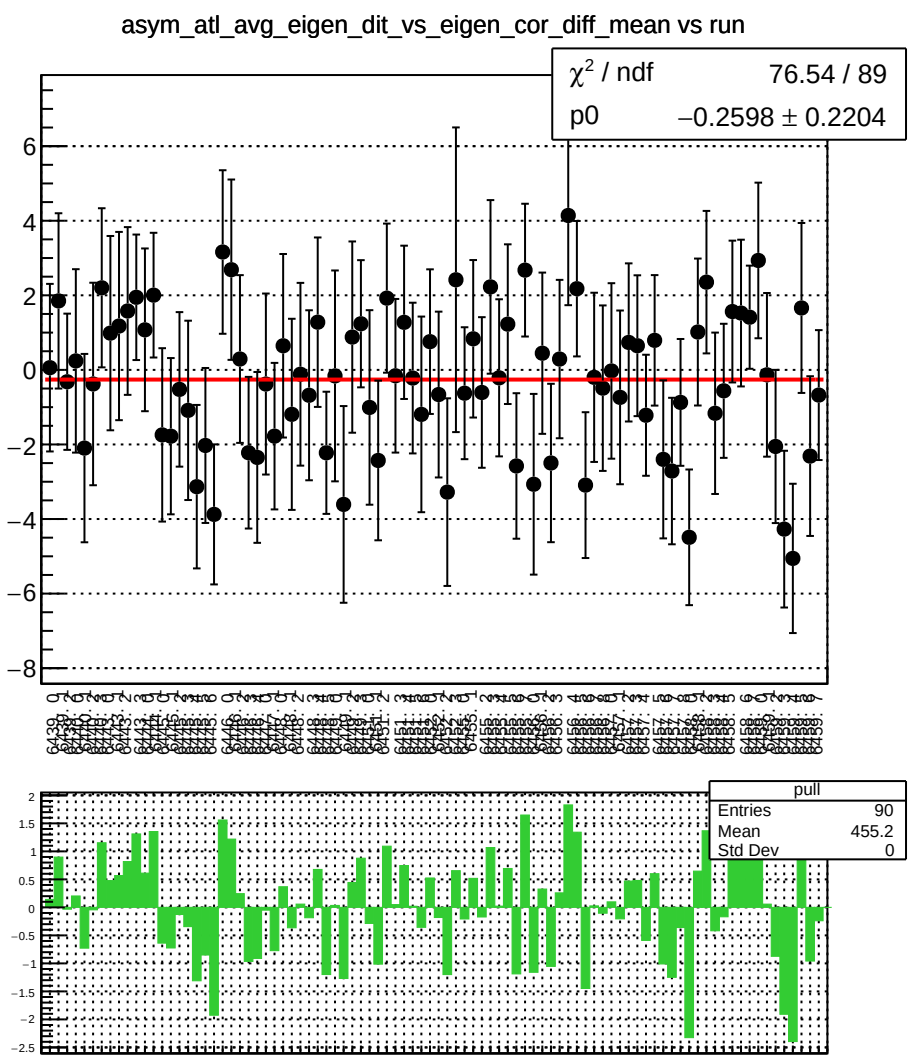

pull1D
Entries 90
Mean −0.01356
Std Dev 0.9094

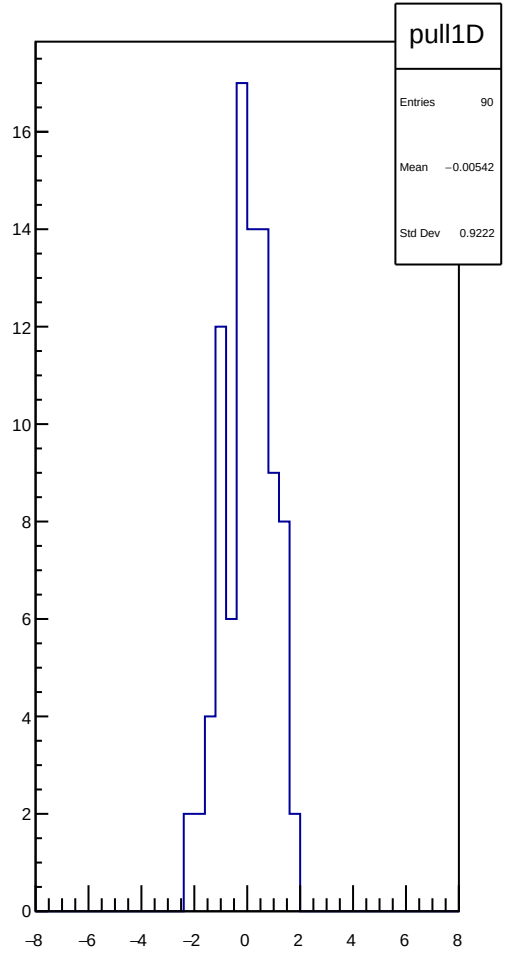

asym_atl_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4662 / 89
p0 0.01139 ± 8.545e−06
0.0135
0.013
0.0125
0.012
0.0115
0.011
0.0105
0.01

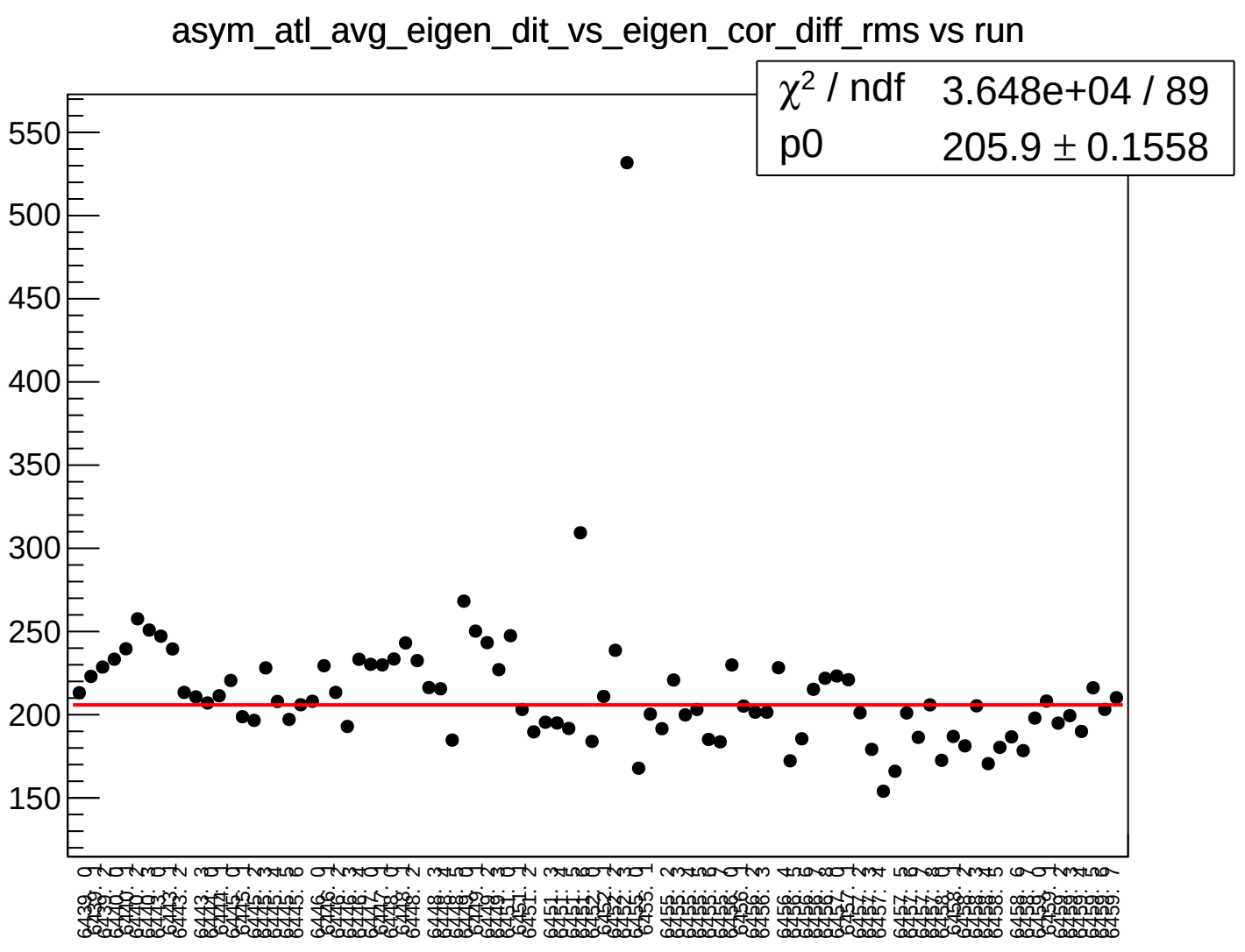

asym_atl_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.54 / 89
p0 −0.2598 ± 0.2204
pull
Entries 90
Mean 455.2
Std Dev 0

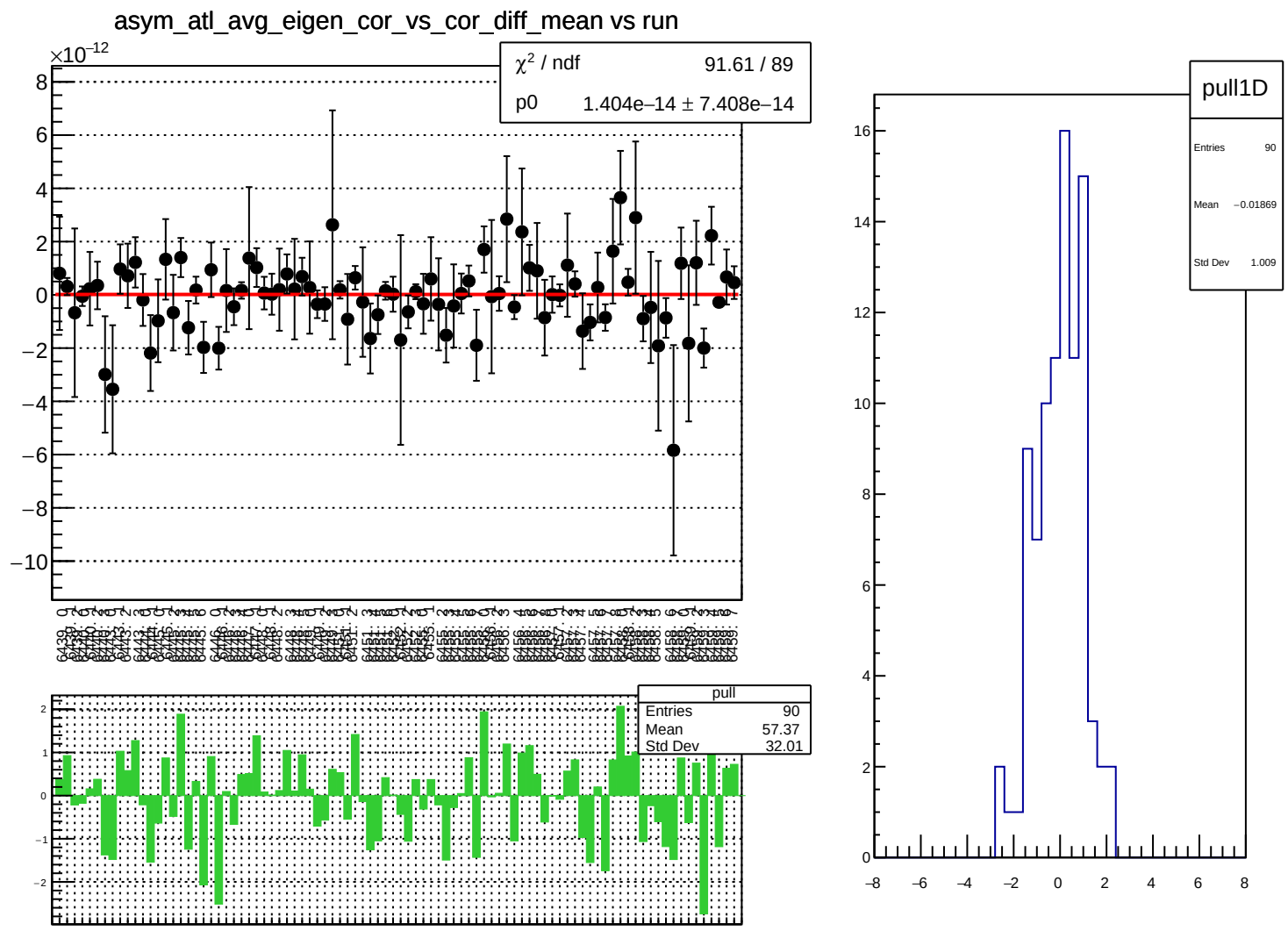

pull1D
Entries 90
Mean −0.00542
Std Dev 0.9222

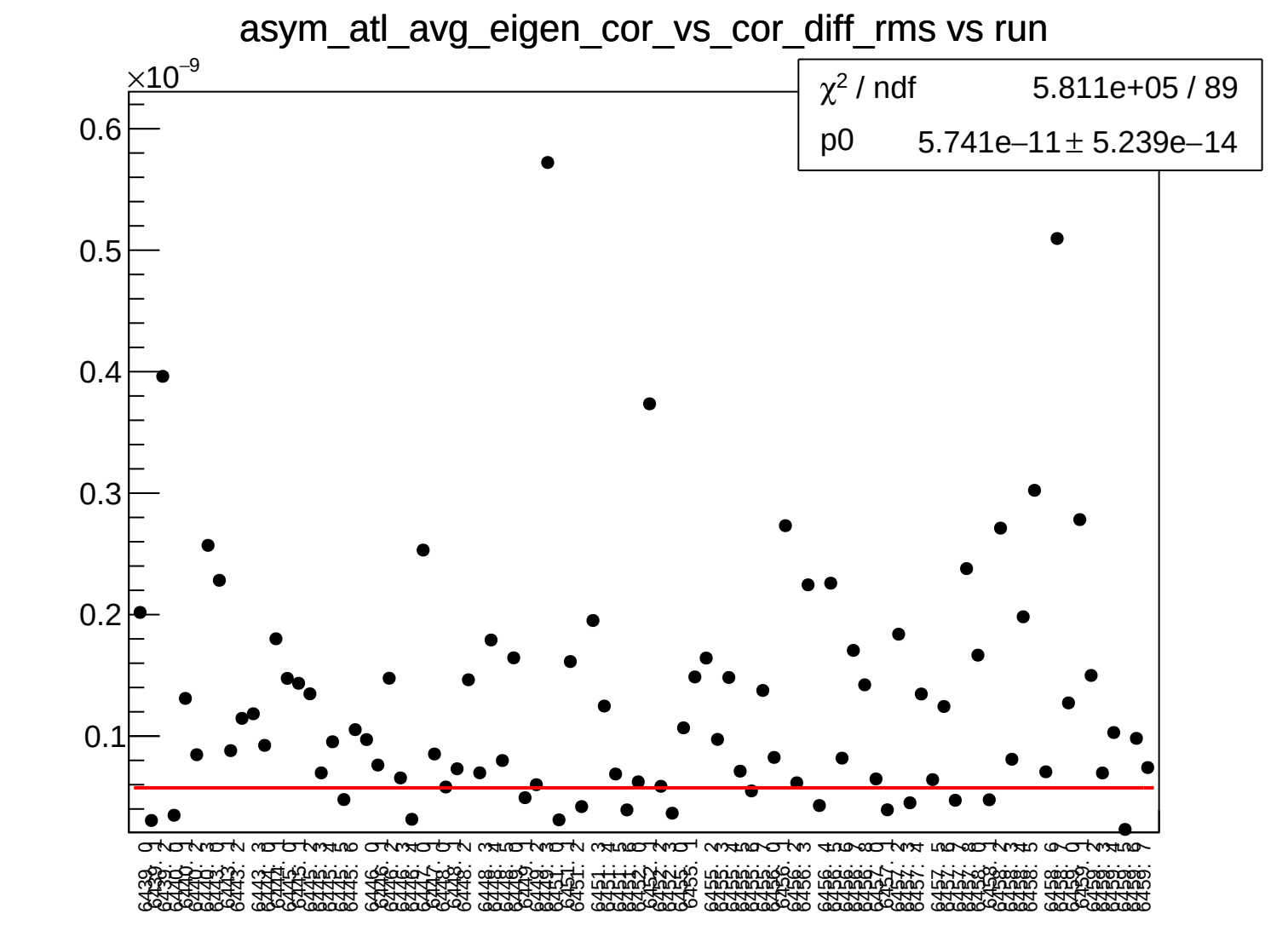

asym_atl_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.648e+04 / 89
p0 205.9 ± 0.1558
550
500
450
400
350
300
250
200
150

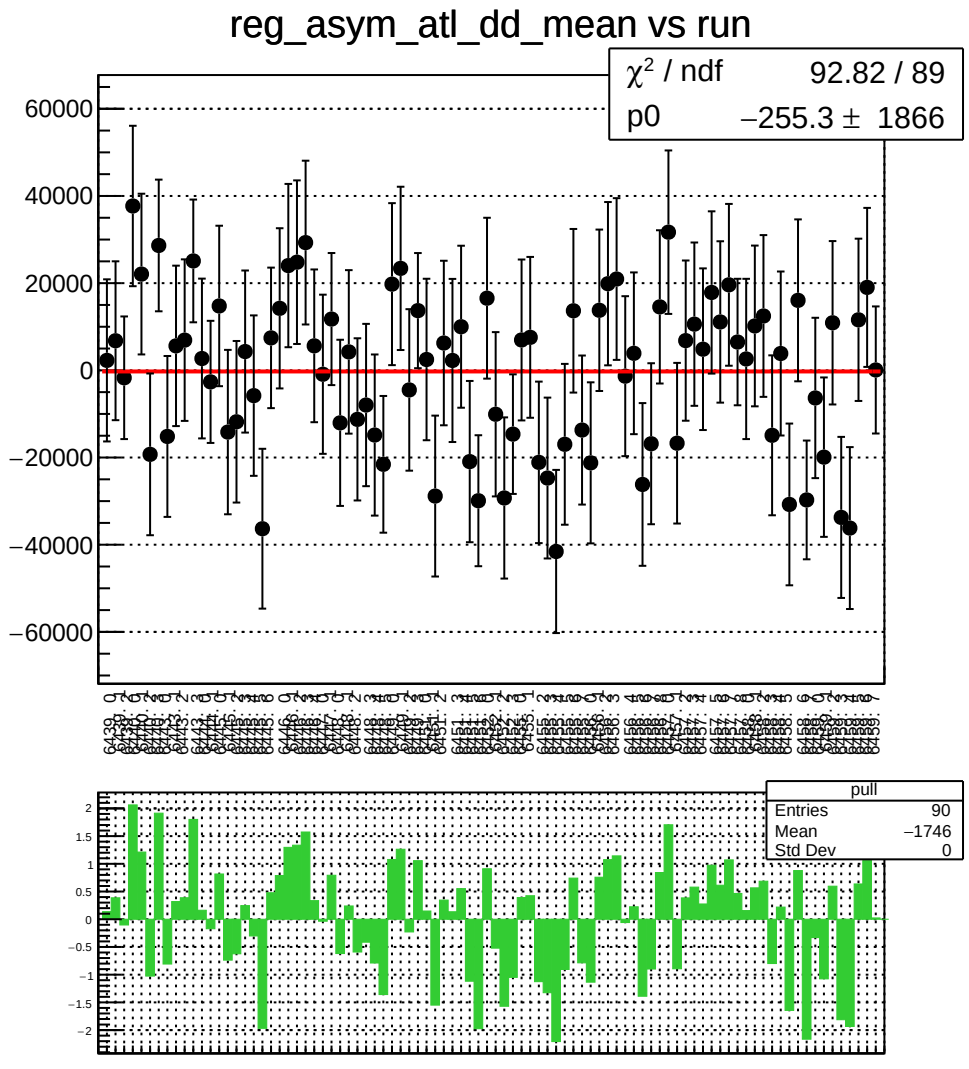

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.54 / 89
p0 −0.2598 ± 0.2204
pull
Entries 90
Mean 455.2
Std Dev 0

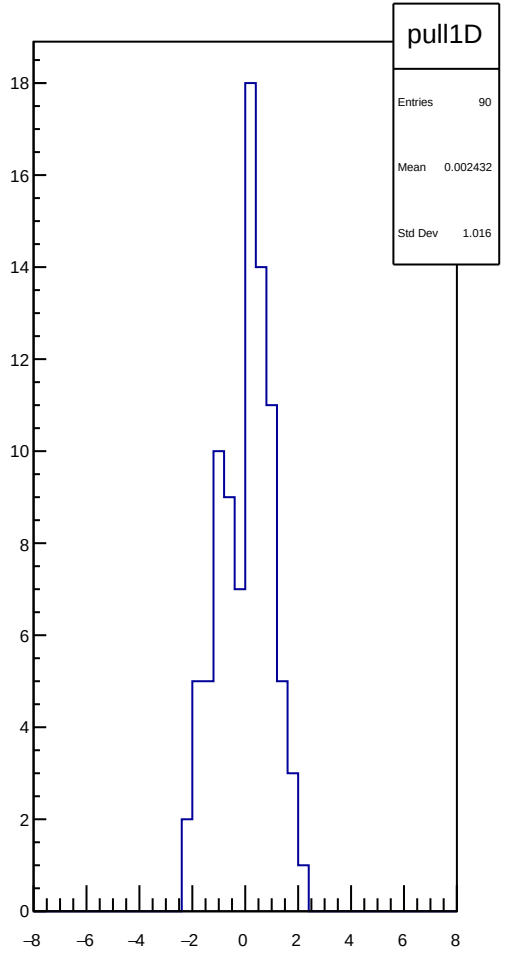

pull1D
Entries 90
Mean −0.00542
Std Dev 0.9222

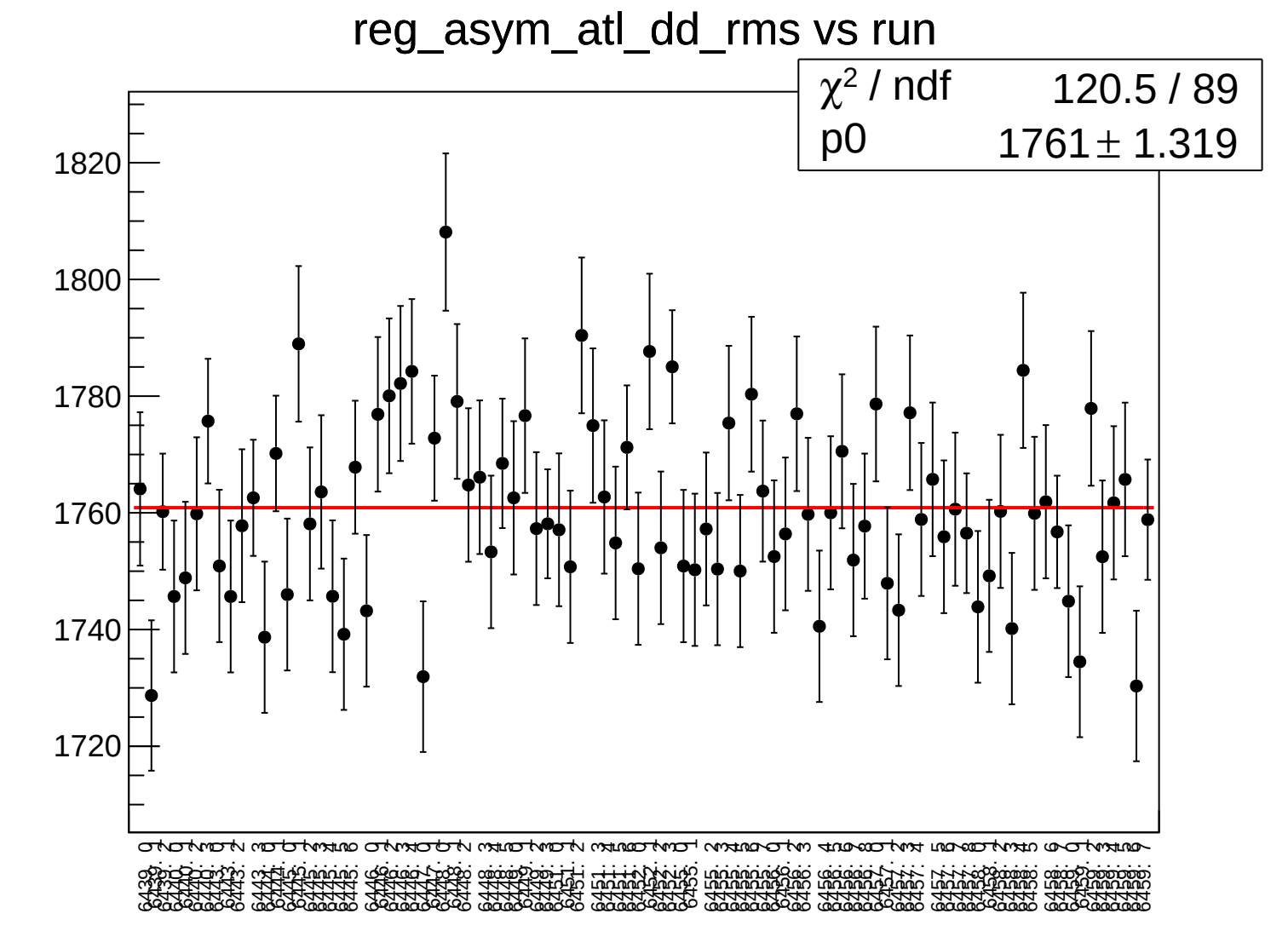

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.648e+04 / 89
p0 205.9 ± 0.1558
550
500
450
400
350
300
250
200
150

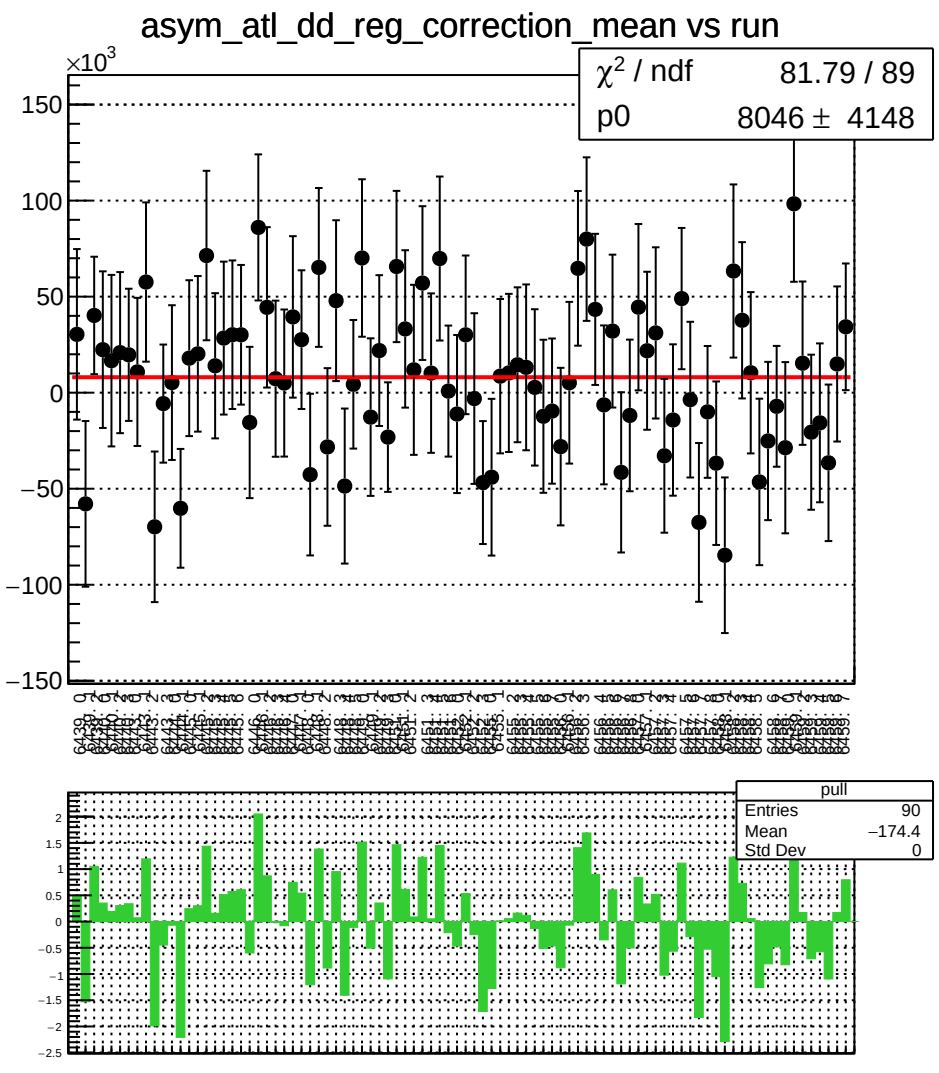

asym_atl_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.61 / 89
p0 1.404e−14 ± 7.408e−14
pull
Entries 90
Mean 57.37
Std Dev 32.01
pull1D
Entries 90
Mean −0.01869
Std Dev 1.009

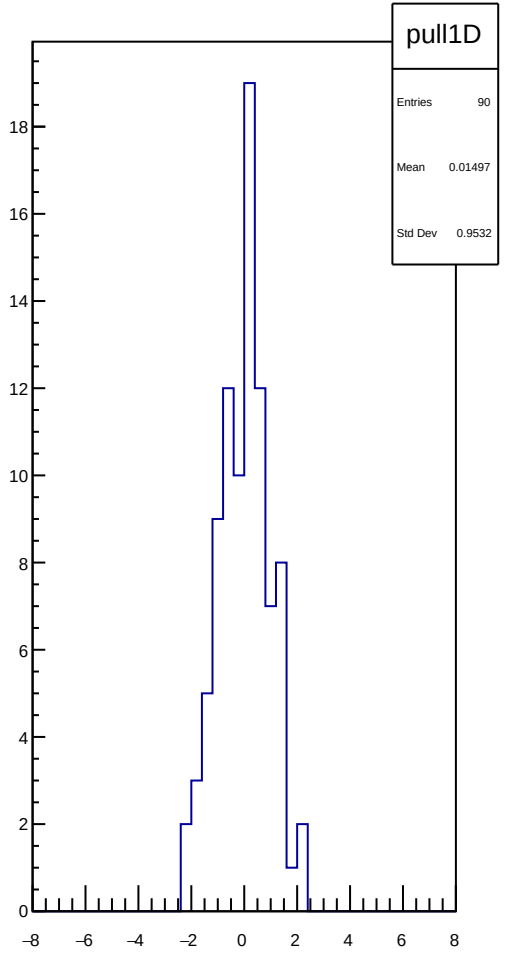

asym_atl_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.811e+05 / 89
p0 5.741e−11 ± 5.239e−14
0.6
0.5
0.4
0.3
0.2
0.1

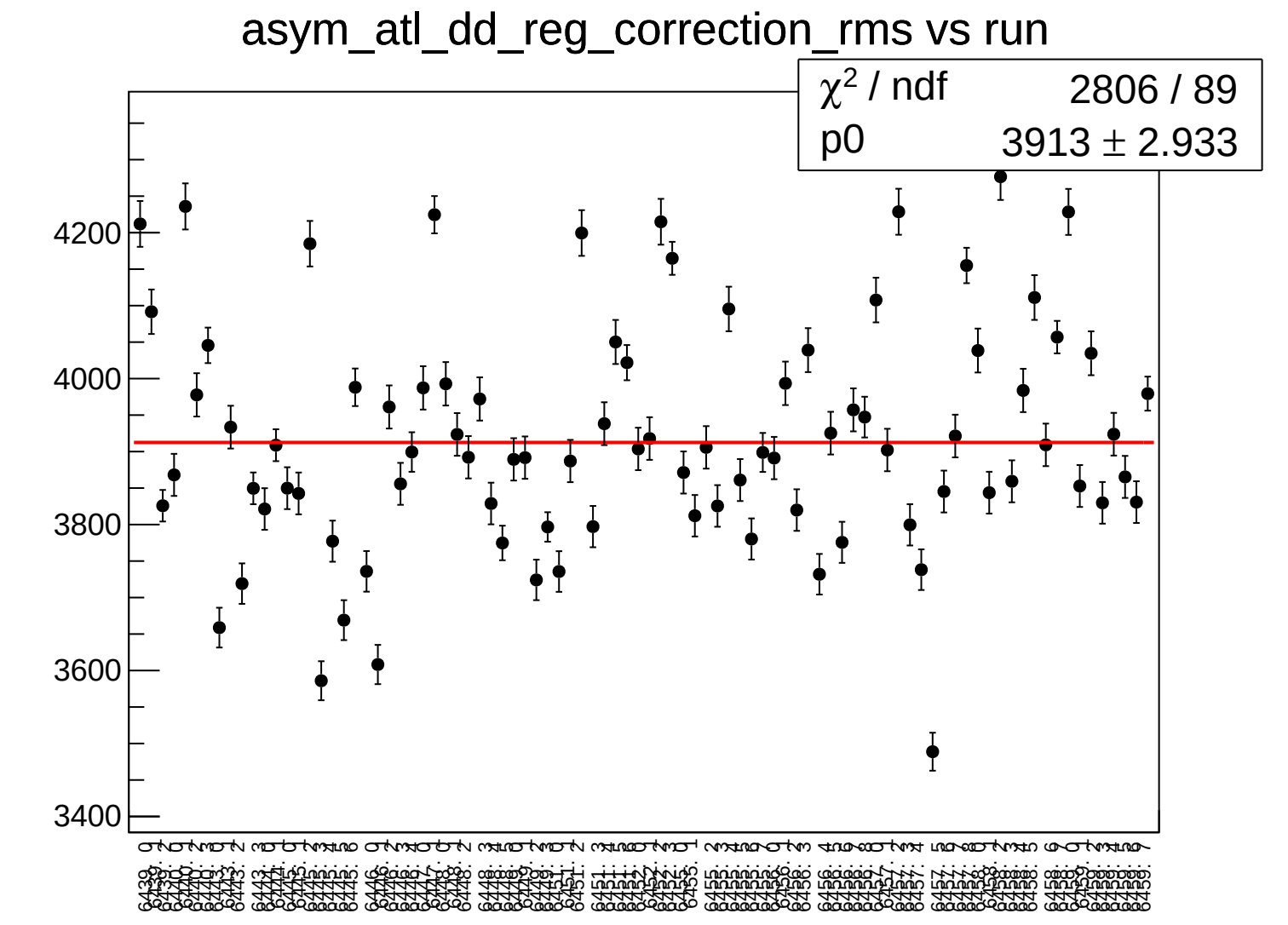

reg_asym_atl_dd_mean vs run
χ² / ndf 92.82 / 89
p0 −255.3 ± 1866
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −1746
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

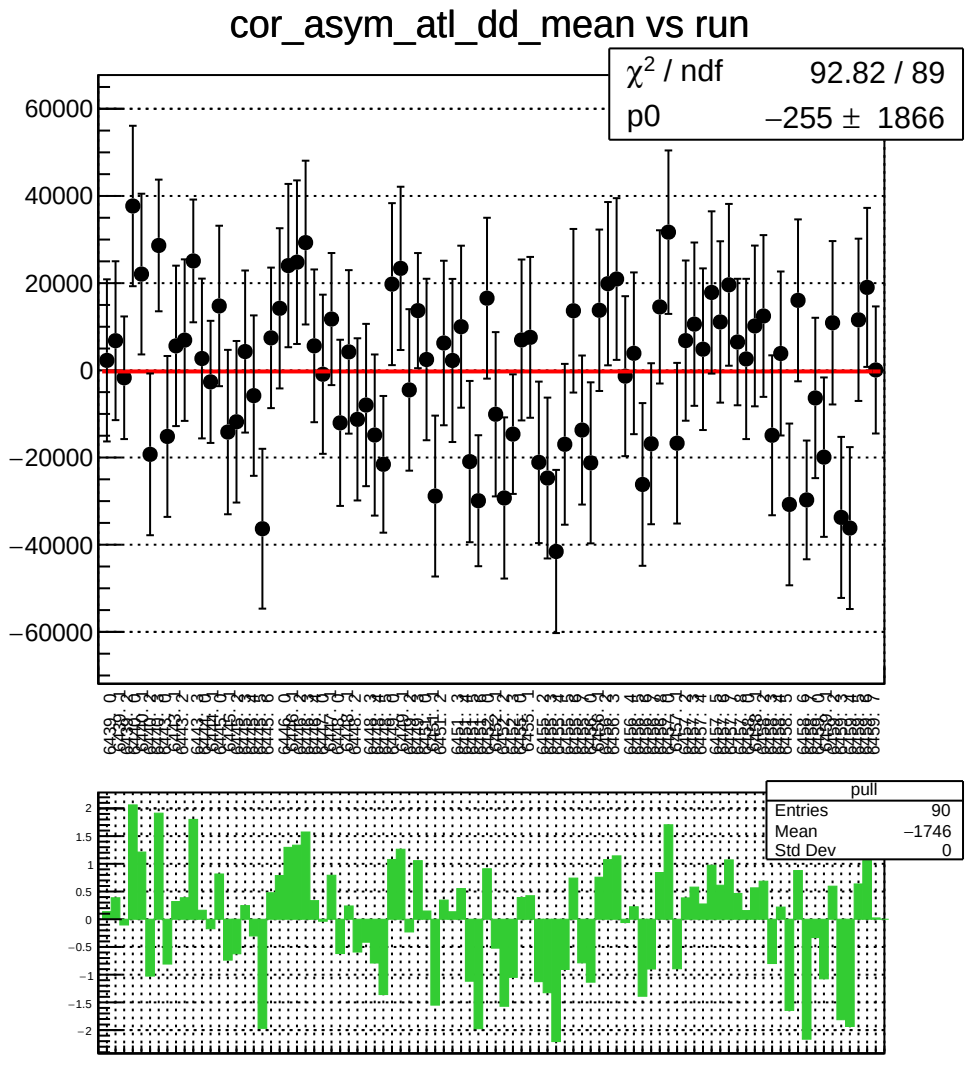

pull1D
Entries 90
Mean 0.002432
Std Dev 1.016
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

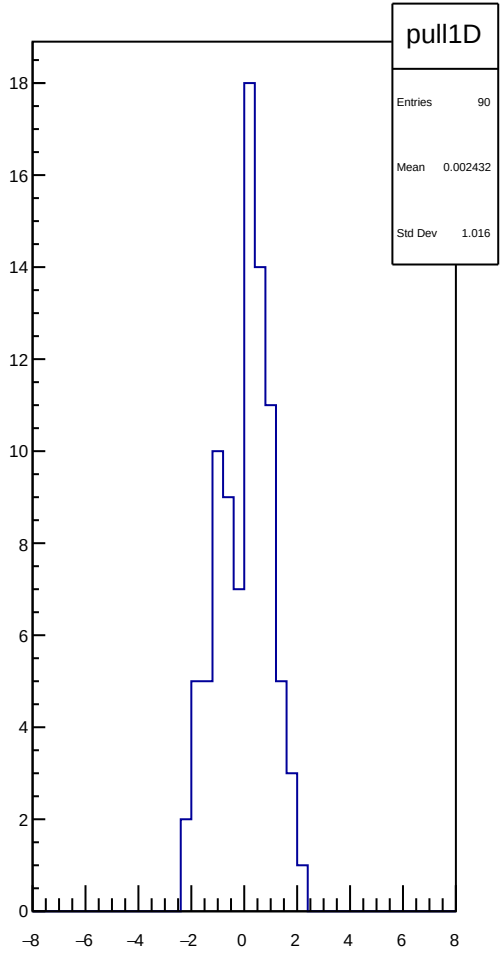

reg_asym_atl_dd_rms vs run
χ² / ndf 120.5 / 89
p0 1761 ± 1.319
1820
1800
1780
1760
1740
1720

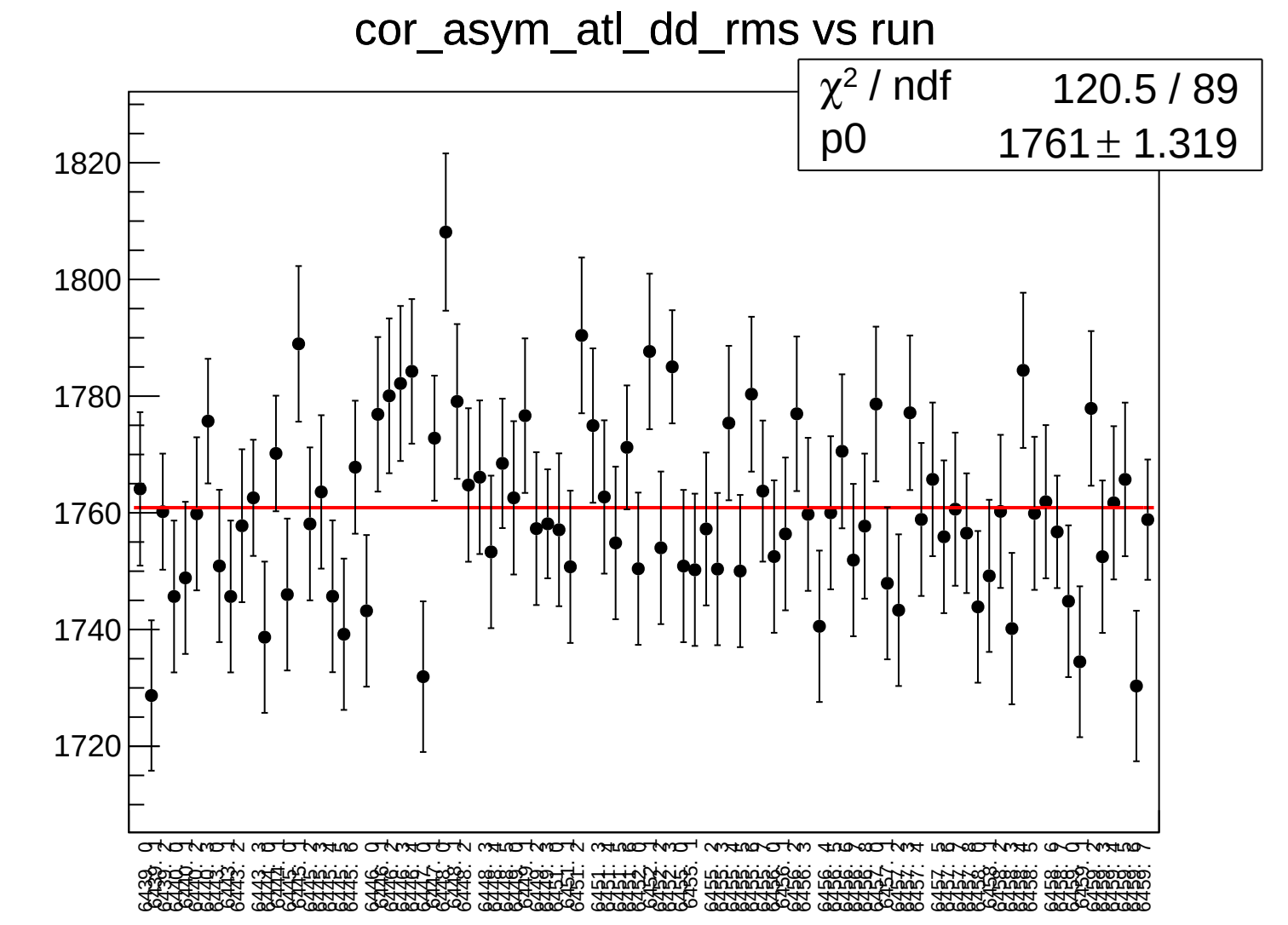

asym_atl_dd_reg_correction_mean vs run
×10^3
χ² / ndf 81.79 / 89
p0 8046 ± 4148
150
100
50
0
−50
−100
−150
pull
Entries 90
Mean −174.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

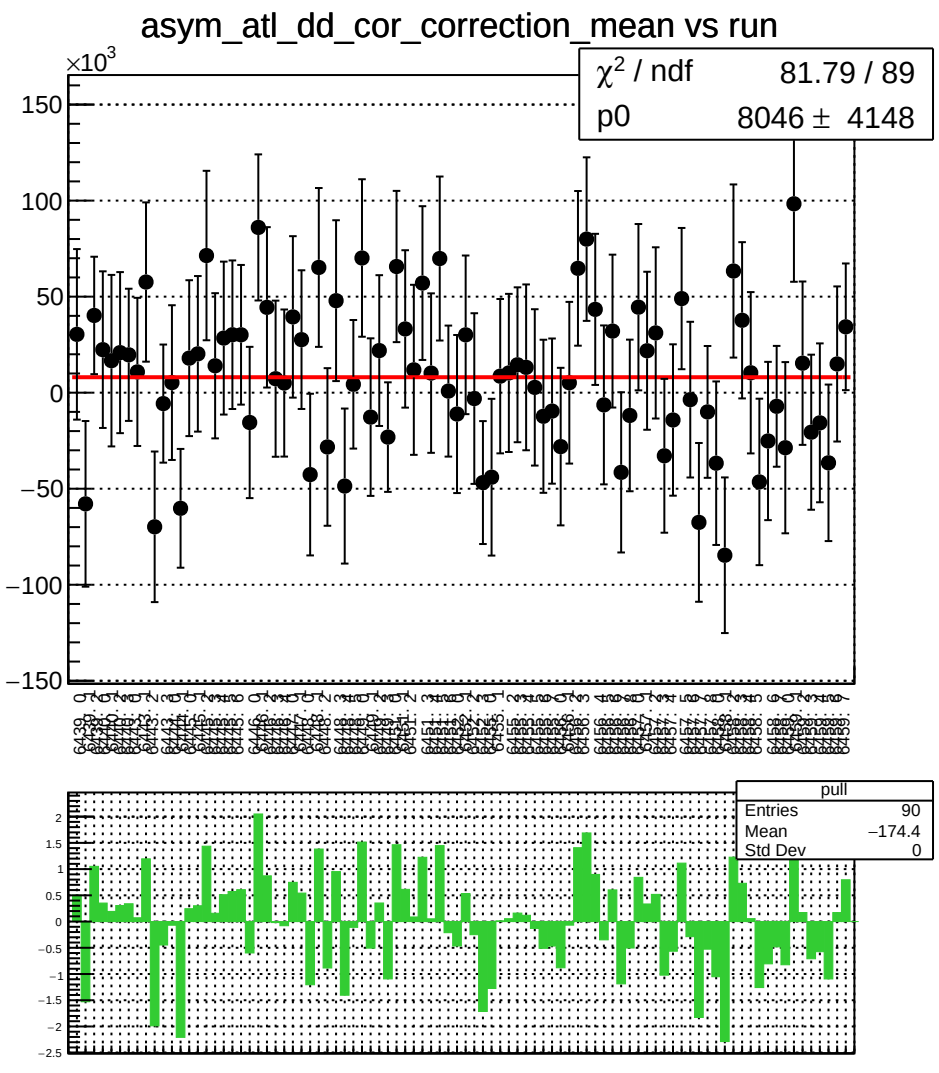

pull1D
Entries 90
Mean 0.01497
Std Dev 0.9532
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

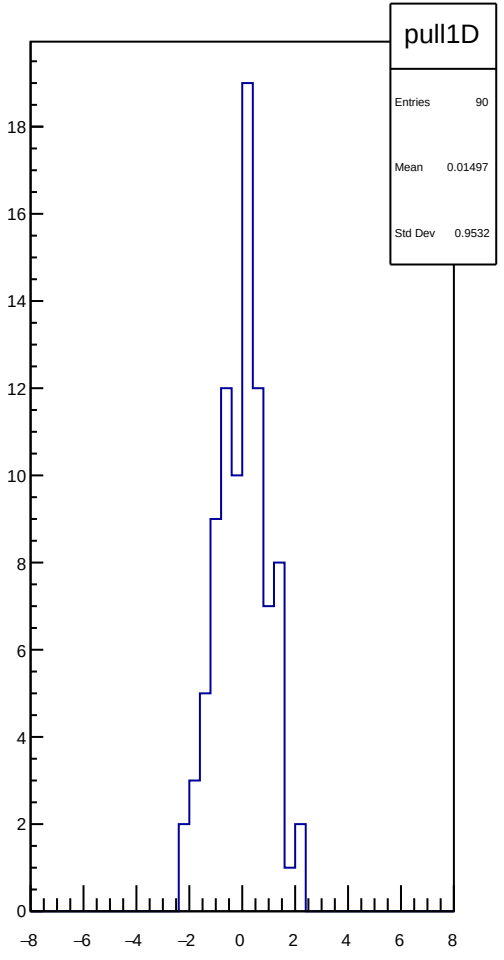

asym_atl_dd_reg_correction_rms vs run
χ² / ndf 2806 / 89
p0 3913 ± 2.933
4200
4000
3800
3600
3400

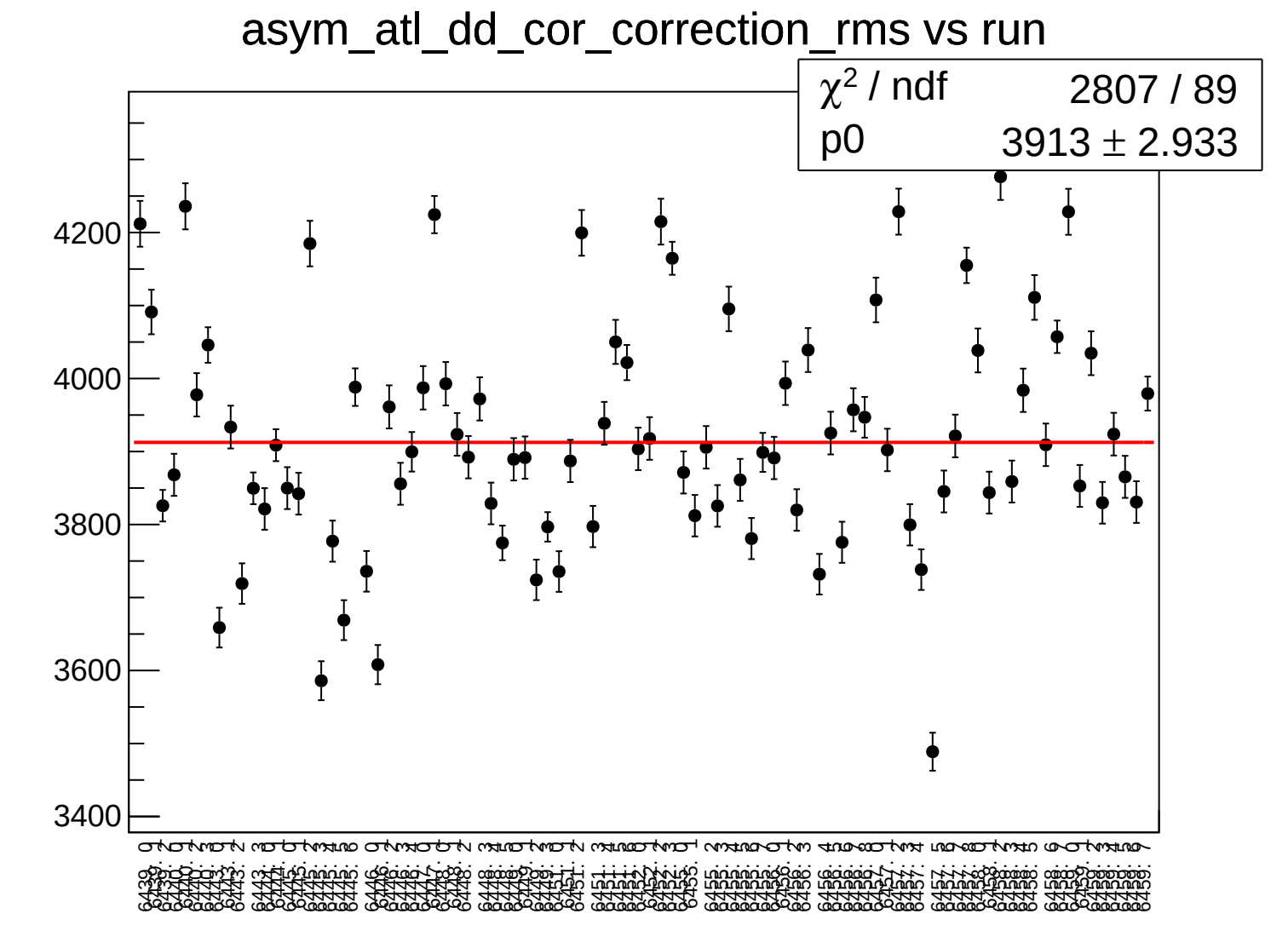

cor_asym_atl_dd_mean vs run
χ² / ndf 92.82 / 89
p0 −255 ± 1866
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −1746
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

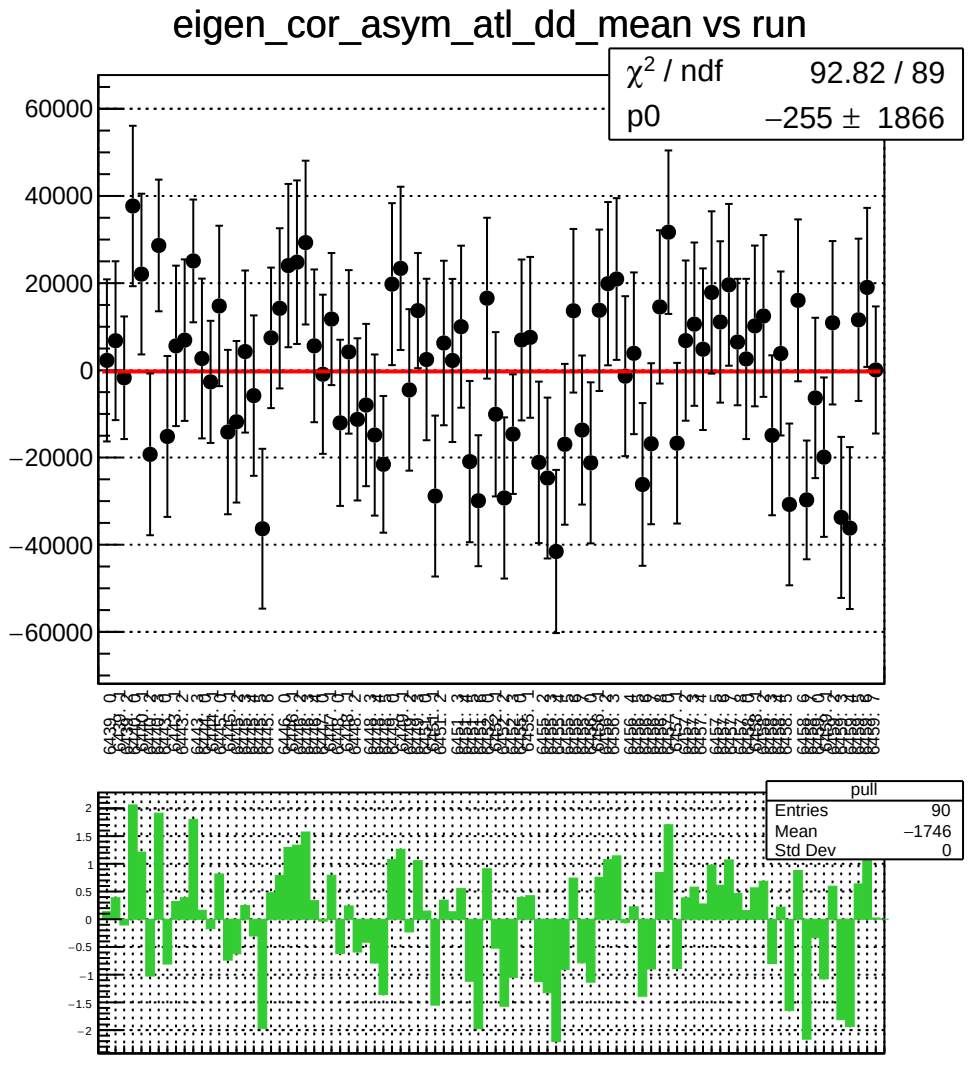

pull1D
Entries 90
Mean 0.002432
Std Dev 1.016
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

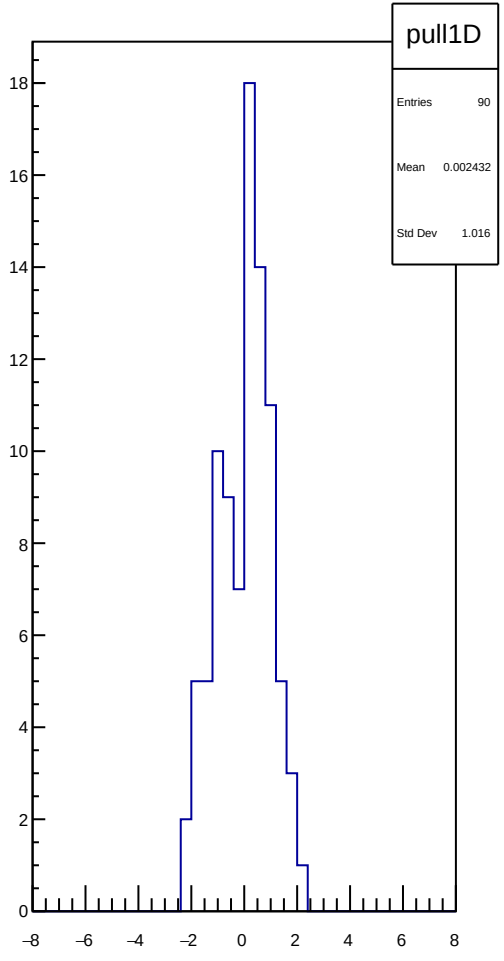

cor_asym_atl_dd_rms vs run
χ^2 / ndf 120.5 / 89
p0 1761 ± 1.319
1820
1800
1780
1760
1740
1720


asym_atl_dd_cor_correction_mean vs run
×10^3
χ² / ndf 81.79 / 89
p0 8046 ± 4148
150
100
50
0
−50
−100
−150
pull
Entries 90
Mean −174.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 90
Mean 0.01497
Std Dev 0.9532
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_dd_cor_correction_rms vs run
χ² / ndf 2807 / 89
p0 3913 ± 2.933
4200
4000
3800
3600
3400


eigen_cor_asym_atl_dd_mean vs run
χ² / ndf 92.82 / 89
p0 −255 ± 1866
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −1746
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 90
Mean 0.002432
Std Dev 1.016
18
16
14
12
10
8
6
4
2
0
−8
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−4
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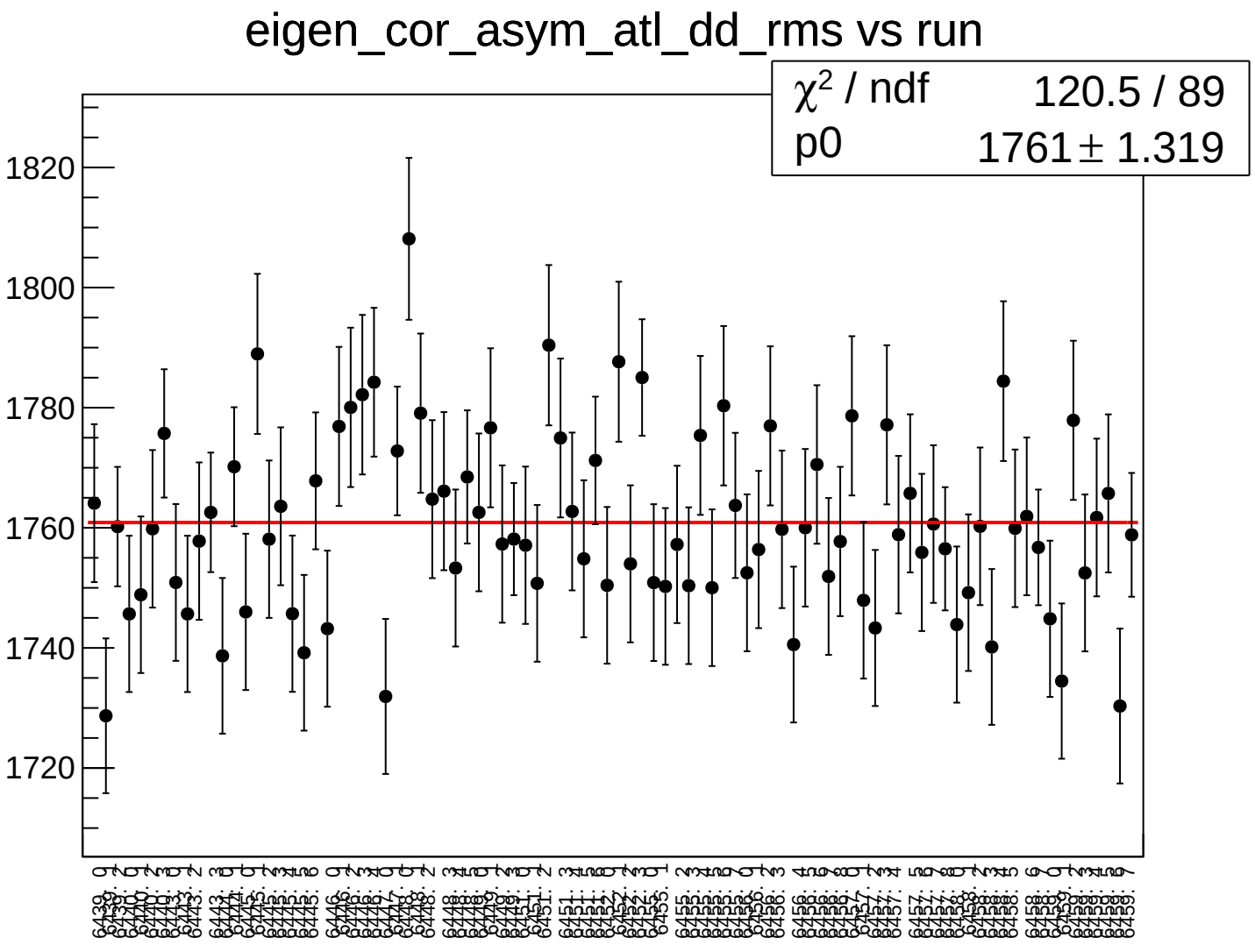
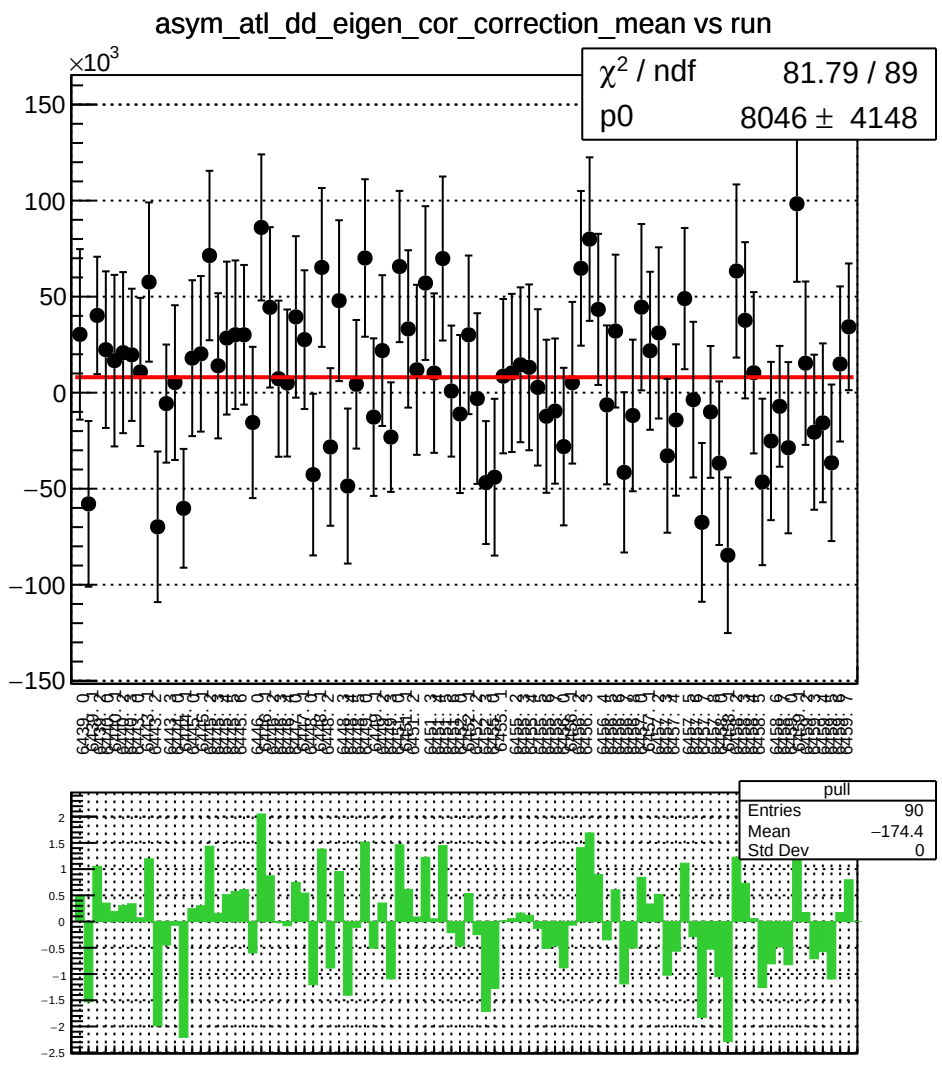
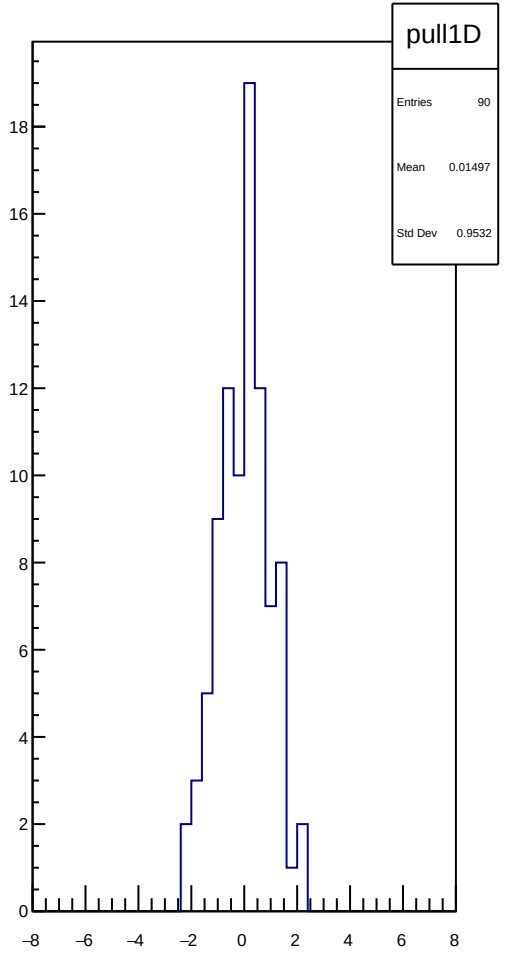
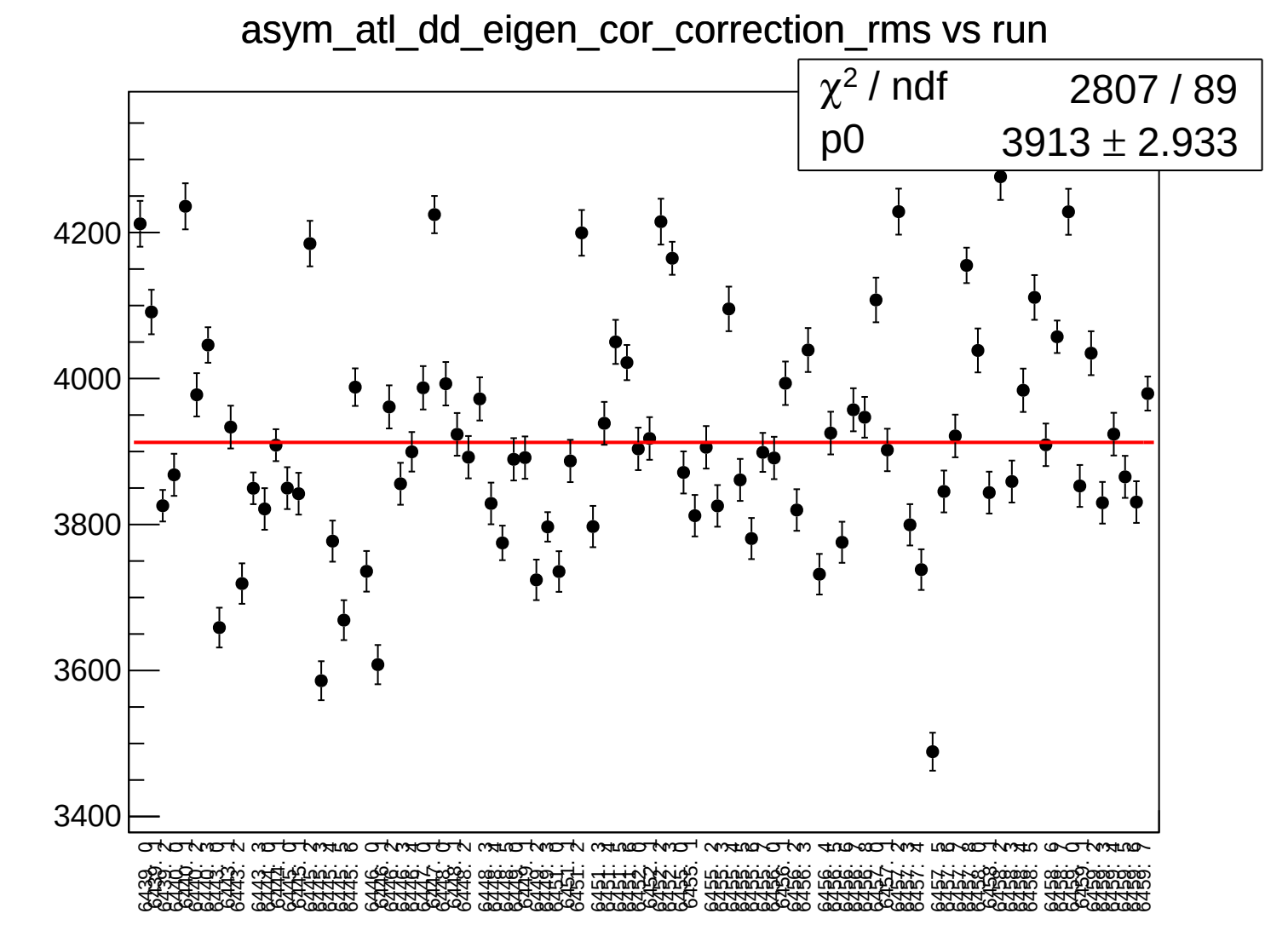
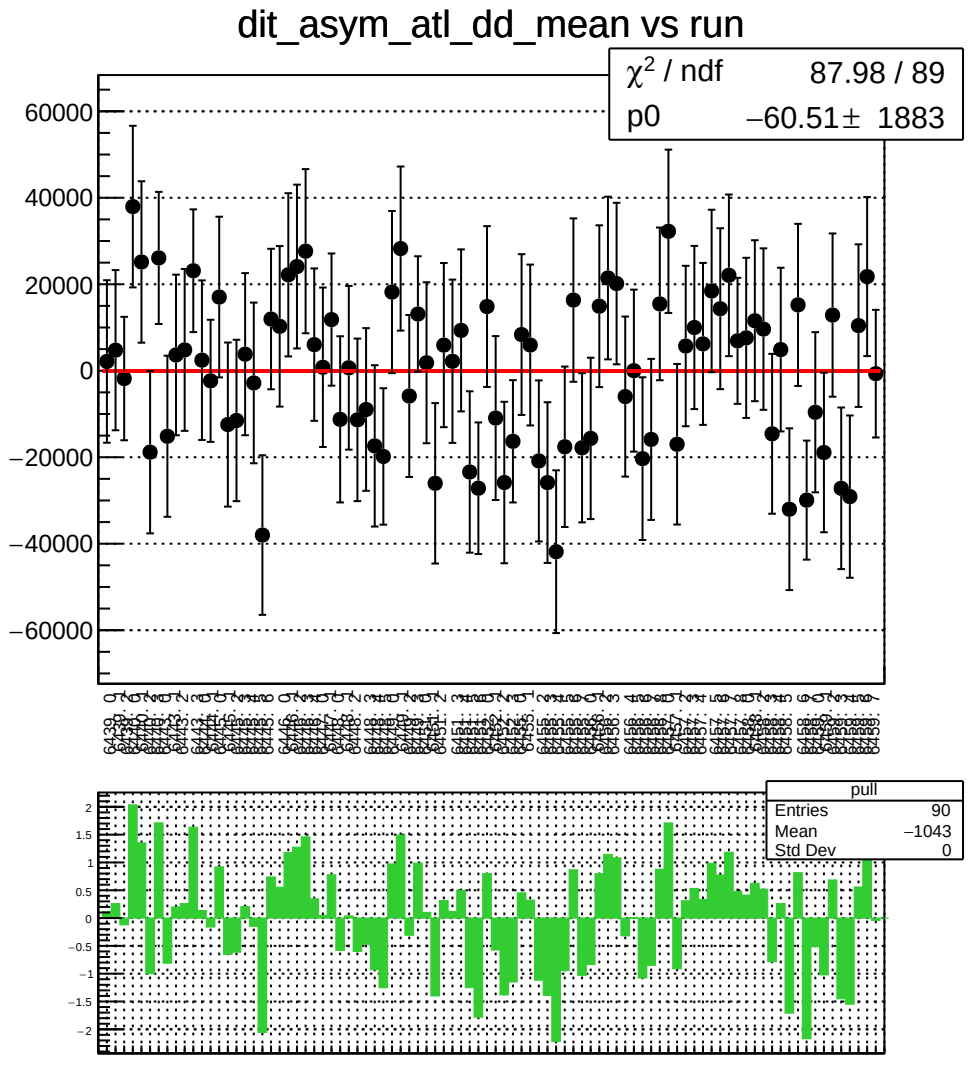
0
2
4
6
8

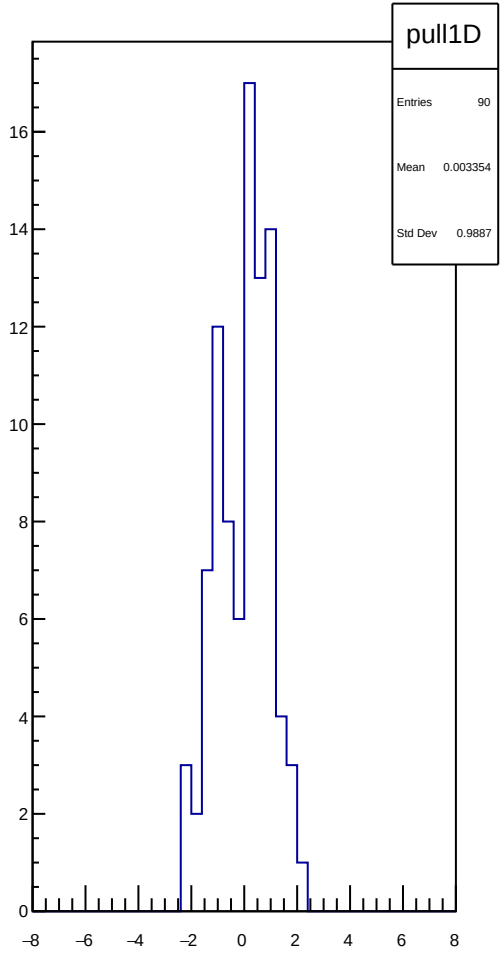

eigen_cor_asym_atl_dd_rms vs run
χ² / ndf 120.5 / 89
p0 1761 ± 1.319
1820
1800
1780
1760
1740
1720

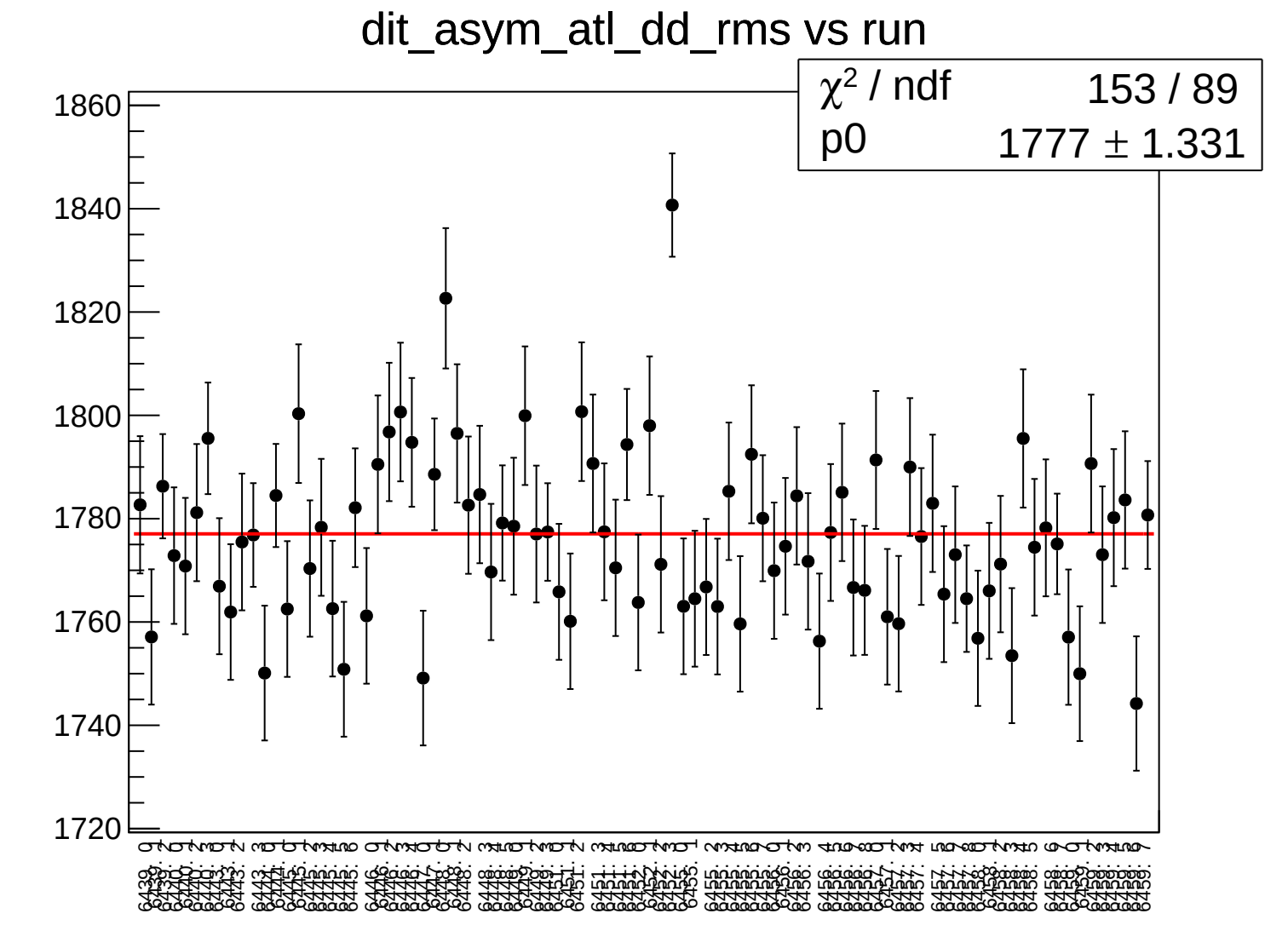

asym_atl_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 81.79 / 89
p0 8046 ± 4148
150
100
50
0
−50
−100
−150
pull
Entries 90
Mean −174.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

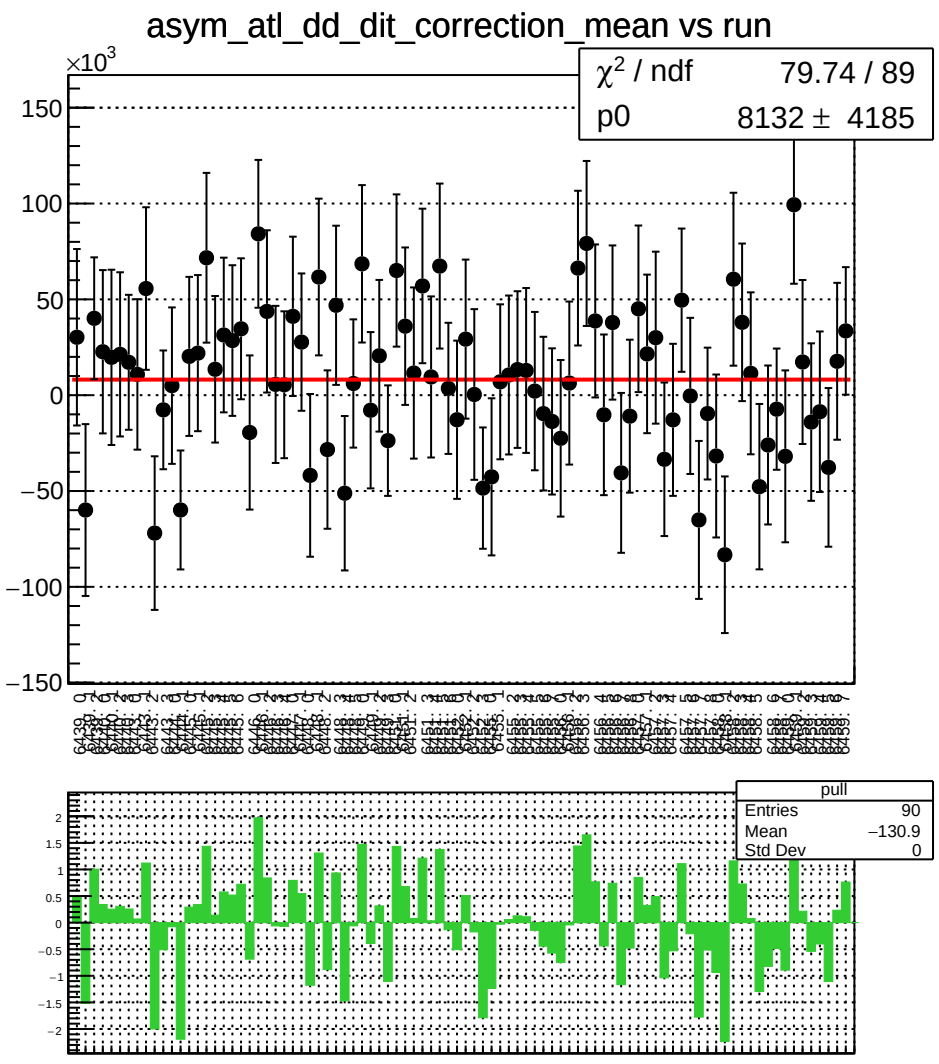

pull1D
Entries 90
Mean 0.01497
Std Dev 0.9532
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

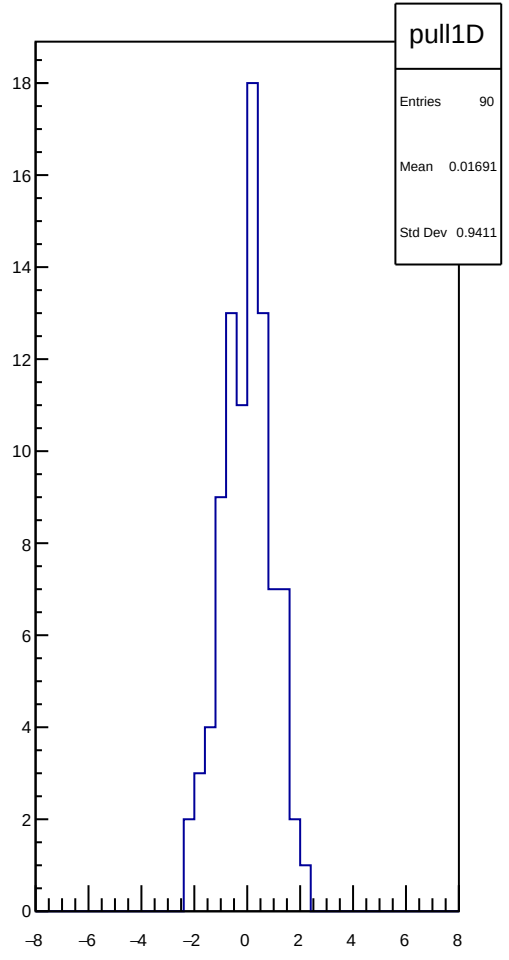

asym_atl_dd_eigen_cor_correction_rms vs run
χ² / ndf 2807 / 89
p0 3913 ± 2.933
4200
4000
3800
3600
3400

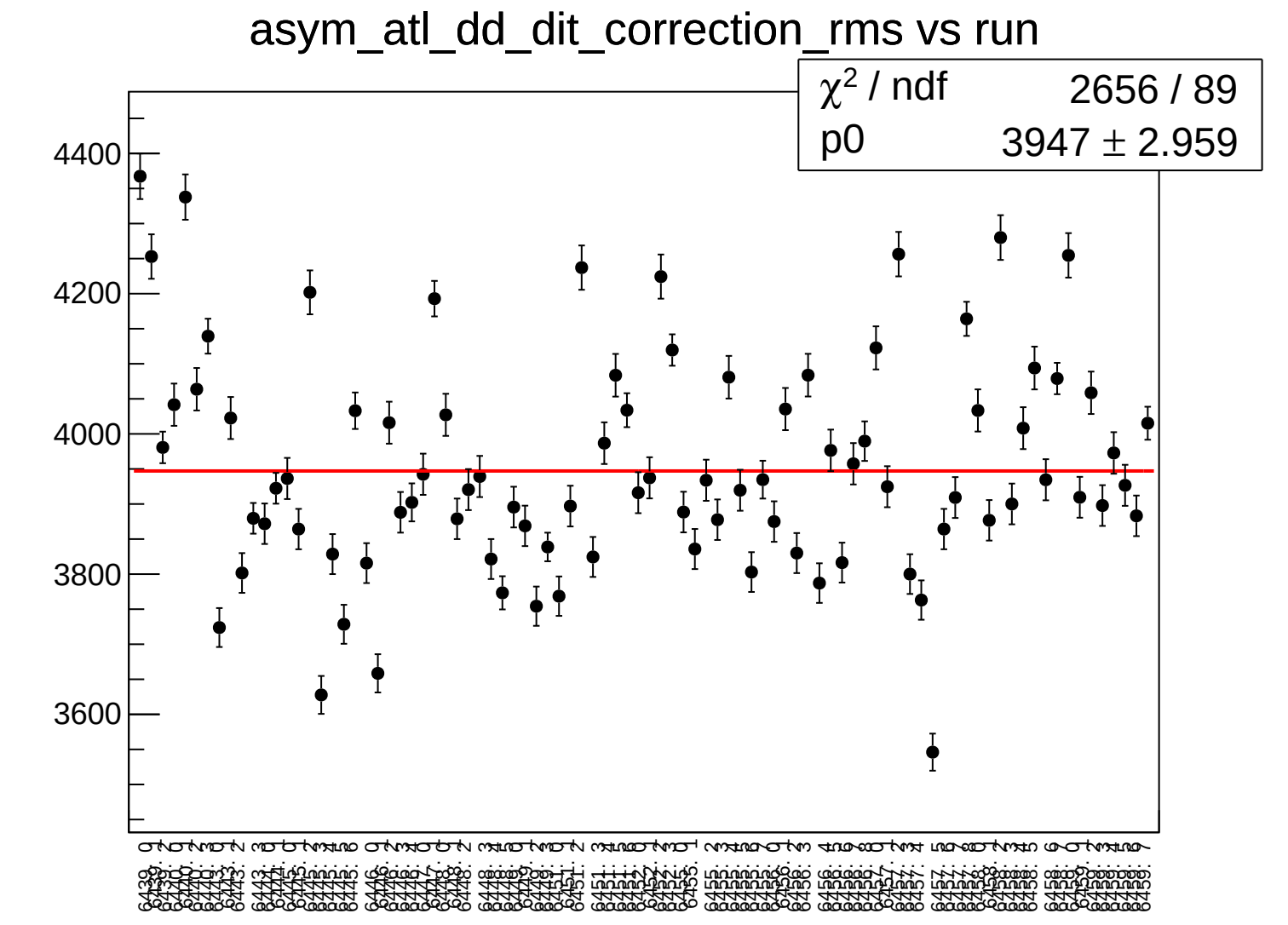

dit_asym_atl_dd_mean vs run
χ² / ndf 87.98 / 89
p0 −60.51± 1883
pull
Entries 90
Mean −1043
Std Dev 0

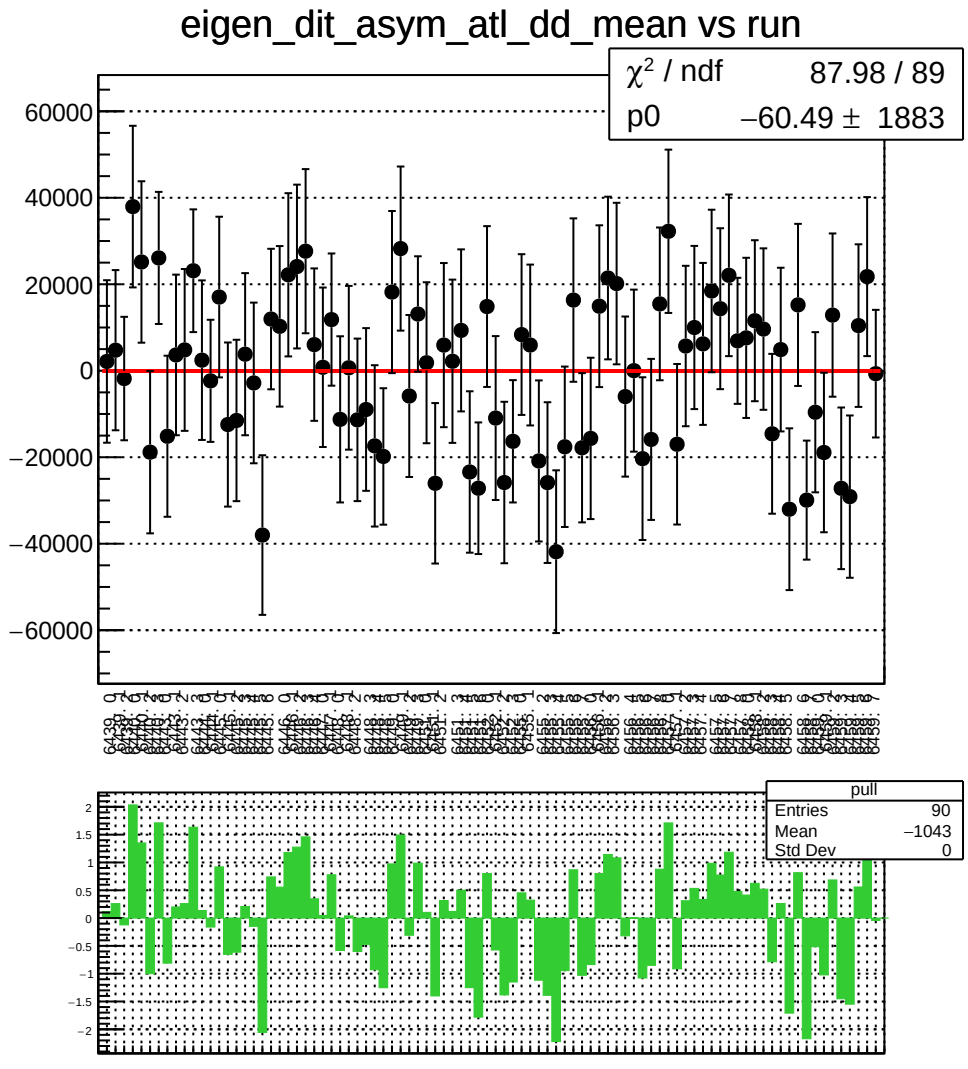

pull1D
Entries 90
Mean 0.003354
Std Dev 0.9887

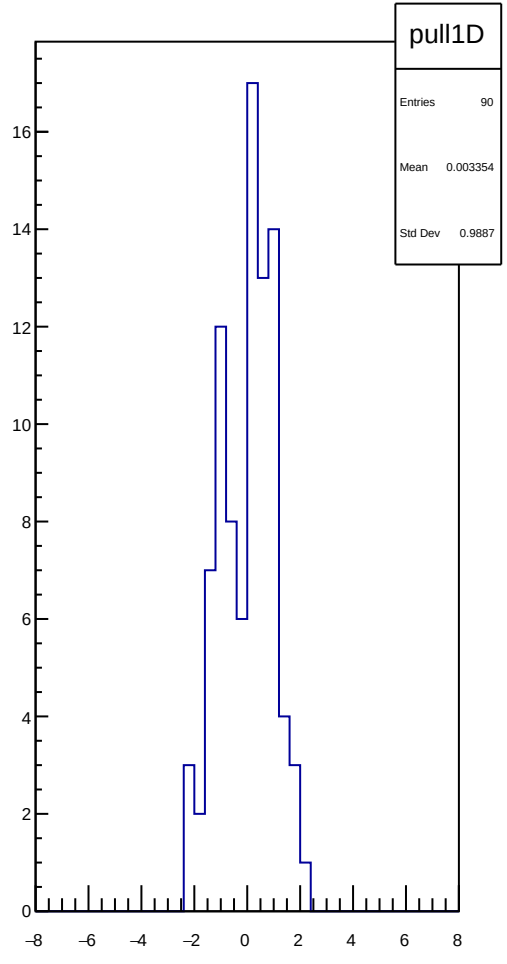

dit_asym_atl_dd_rms vs run
χ² / ndf 153 / 89
p0 1777 ± 1.331
1860
1840
1820
1800
1780
1760
1740
1720

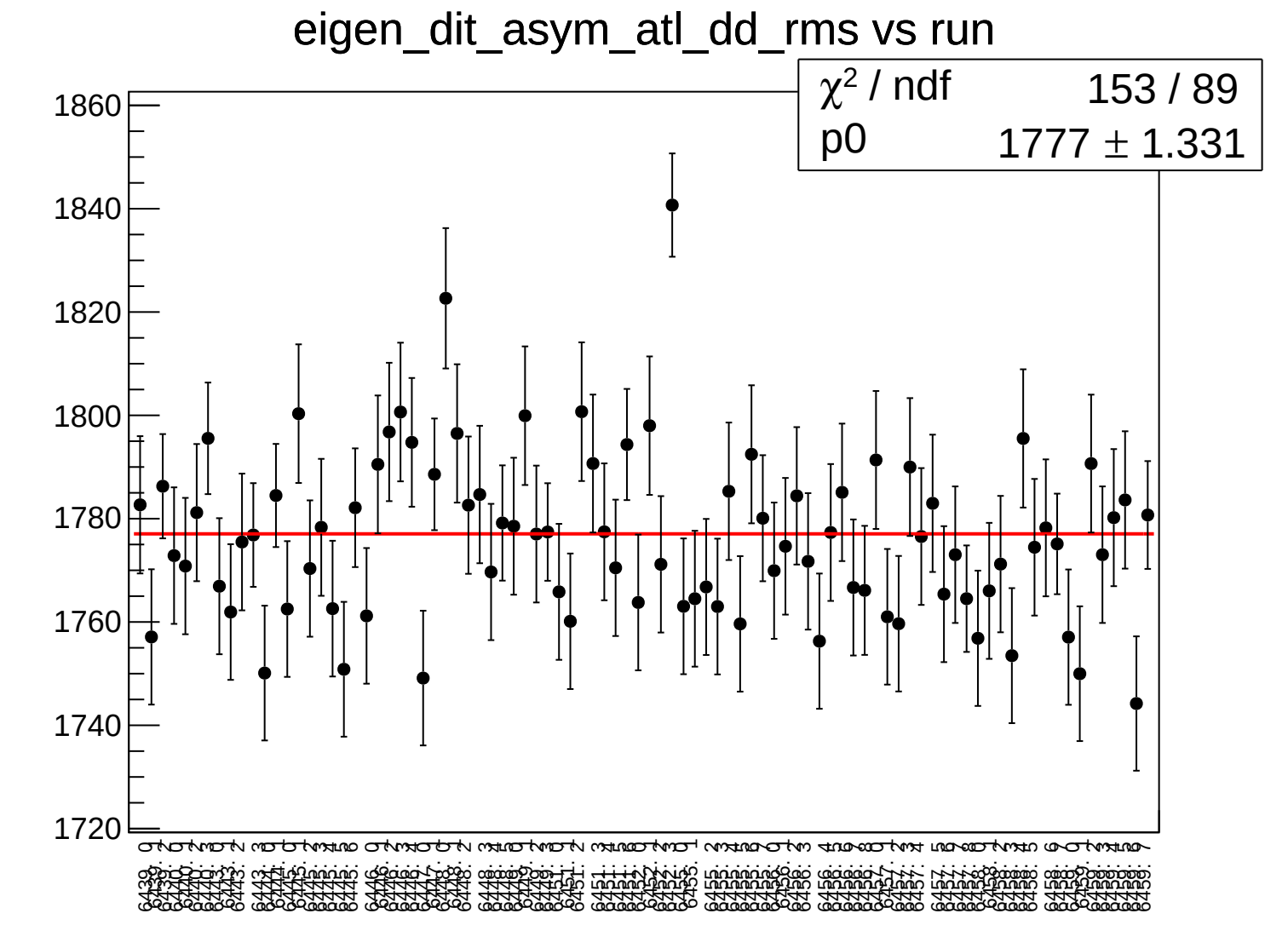

asym_atl_dd_dit_correction_mean vs run
×10^3
χ² / ndf 79.74 / 89
p0 8132 ± 4185
150
100
50
0
−50
−100
−150
pull
Entries 90
Mean −130.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

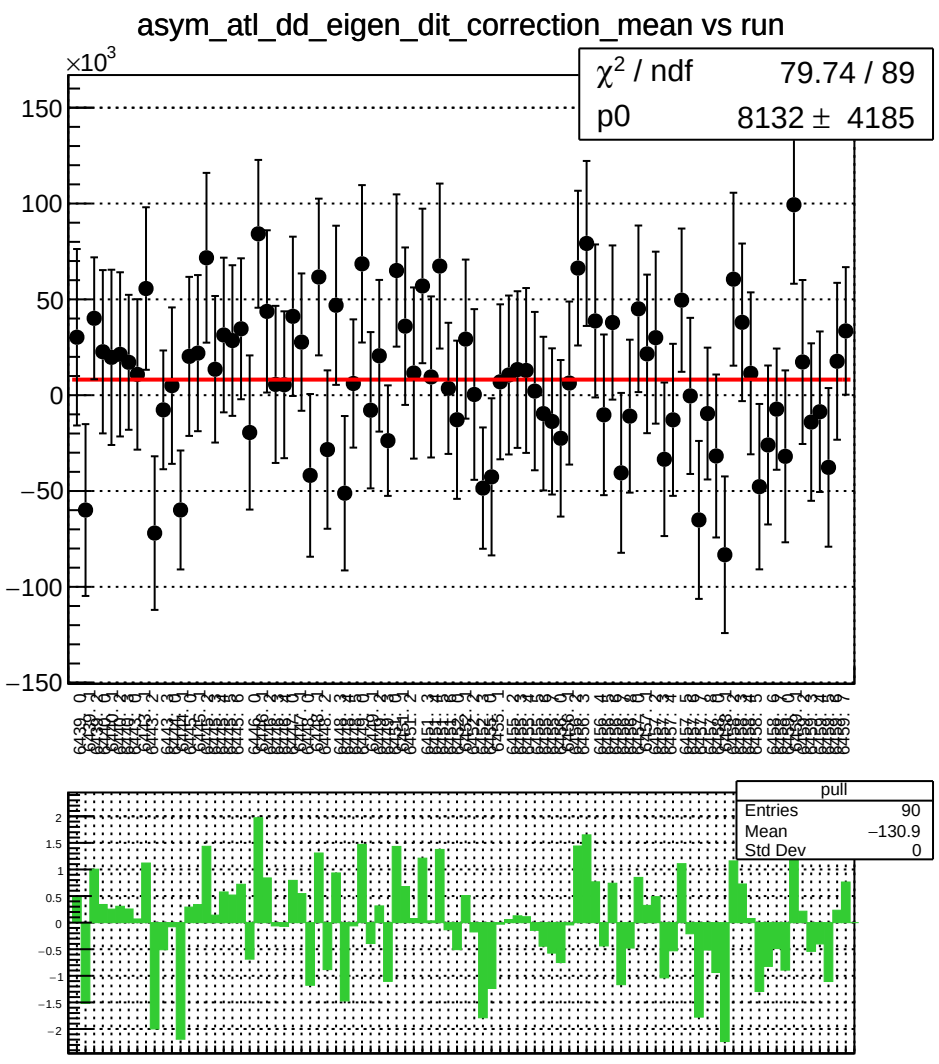

pull1D
Entries 90
Mean 0.01691
Std Dev 0.9411
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

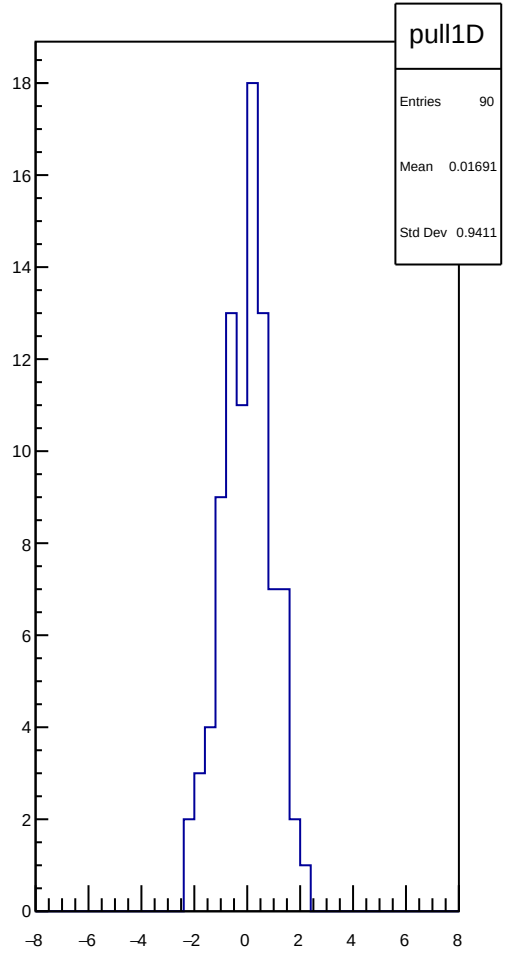

asym_atl_dd_dit_correction_rms vs run
χ² / ndf 2656 / 89
p0 3947 ± 2.959
4400
4200
4000
3800
3600

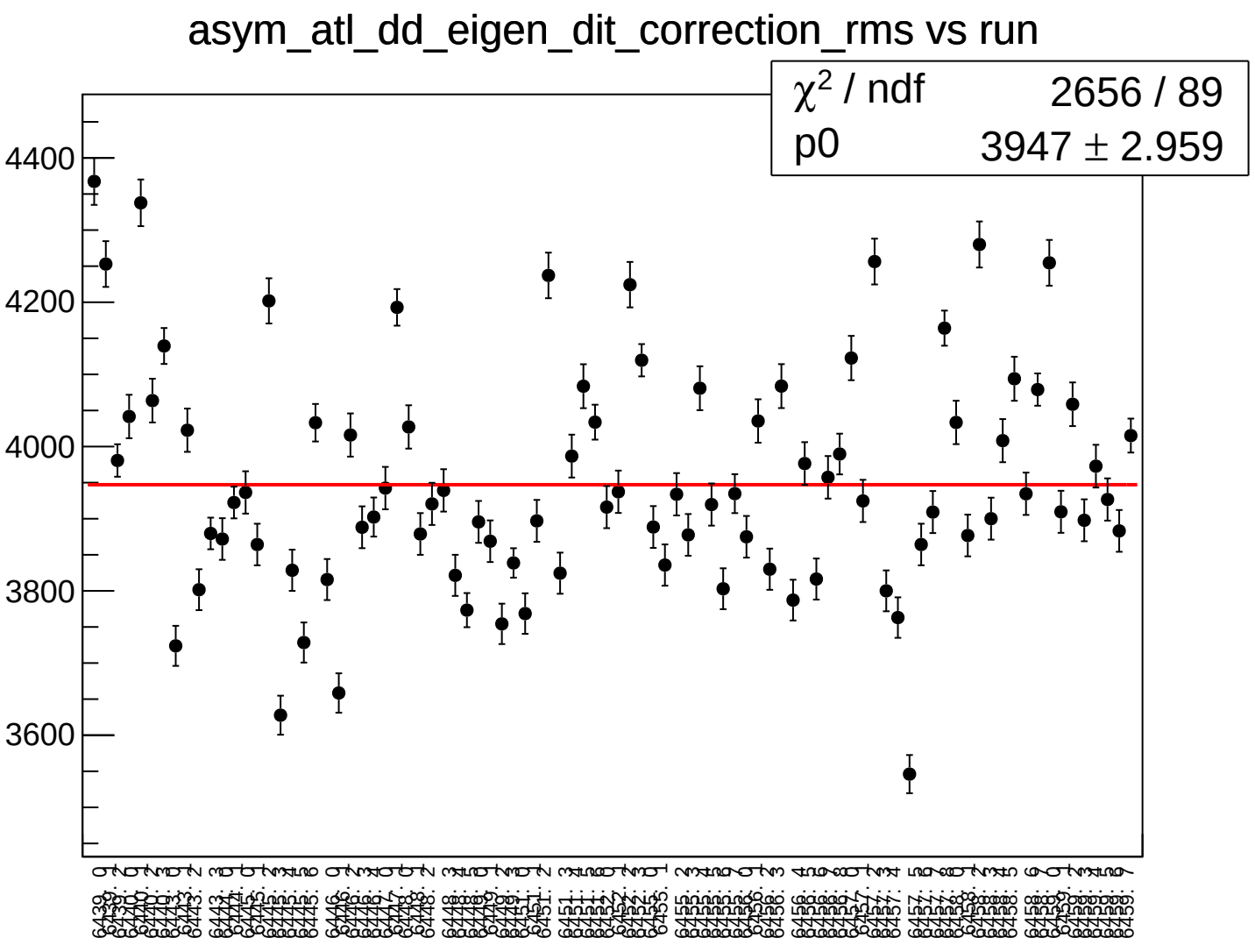

eigen_dit_asym_atl_dd_mean vs run
χ² / ndf 87.98 / 89
p0 −60.49 ± 1883
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −1043
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

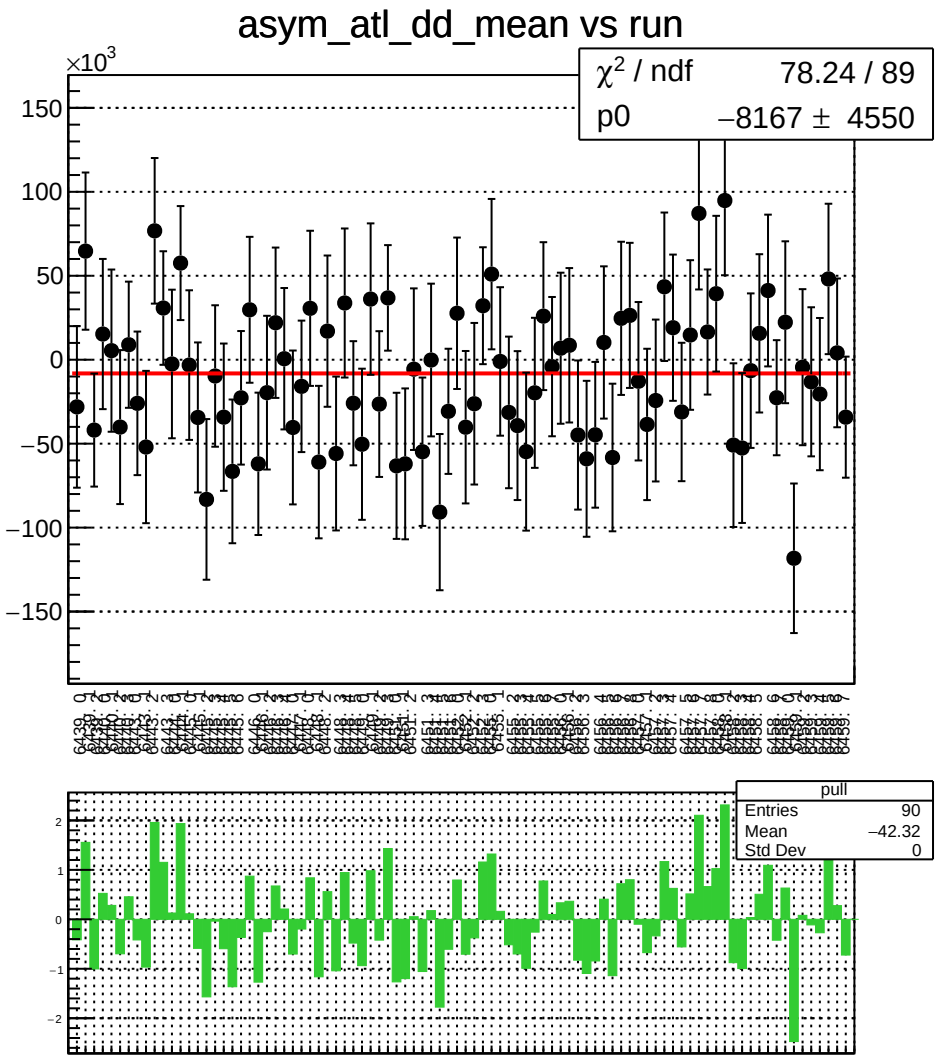

pull1D
Entries 90
Mean 0.003354
Std Dev 0.9887
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

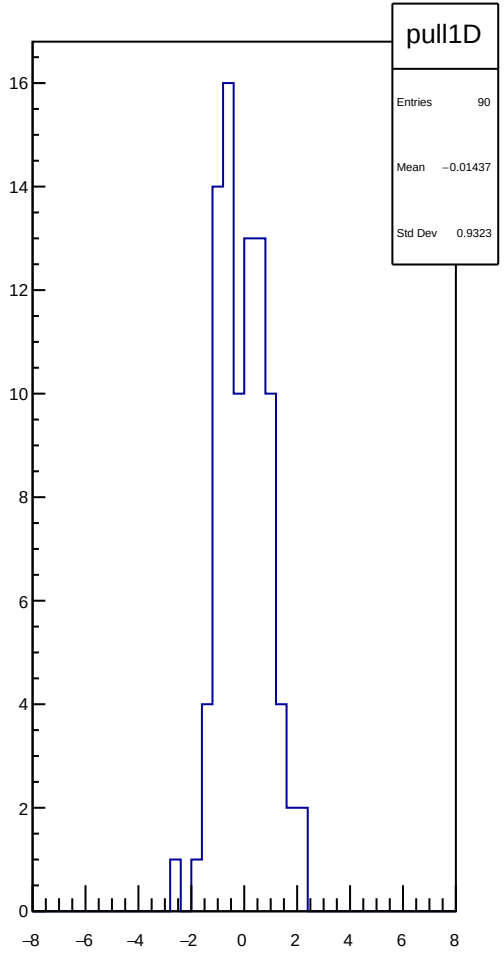

eigen_dit_asym_atl_dd_rms vs run
χ² / ndf 153 / 89
p0 1777 ± 1.331
1860
1840
1820
1800
1780
1760
1740
1720

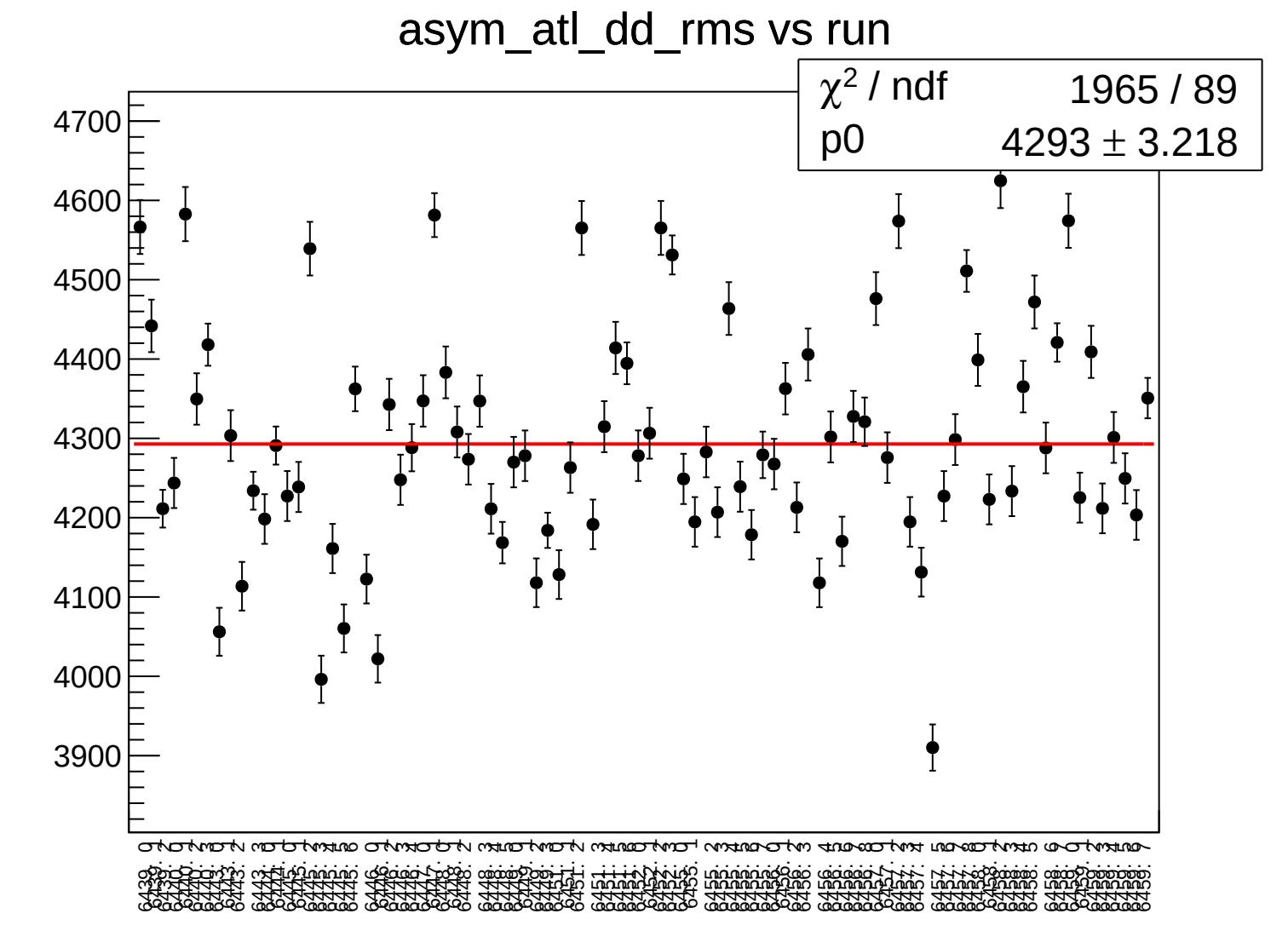

asym_atl_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 79.74 / 89
p0 8132 ± 4185
150
100
50
0
−50
−100
−150
pull
Entries 90
Mean −130.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

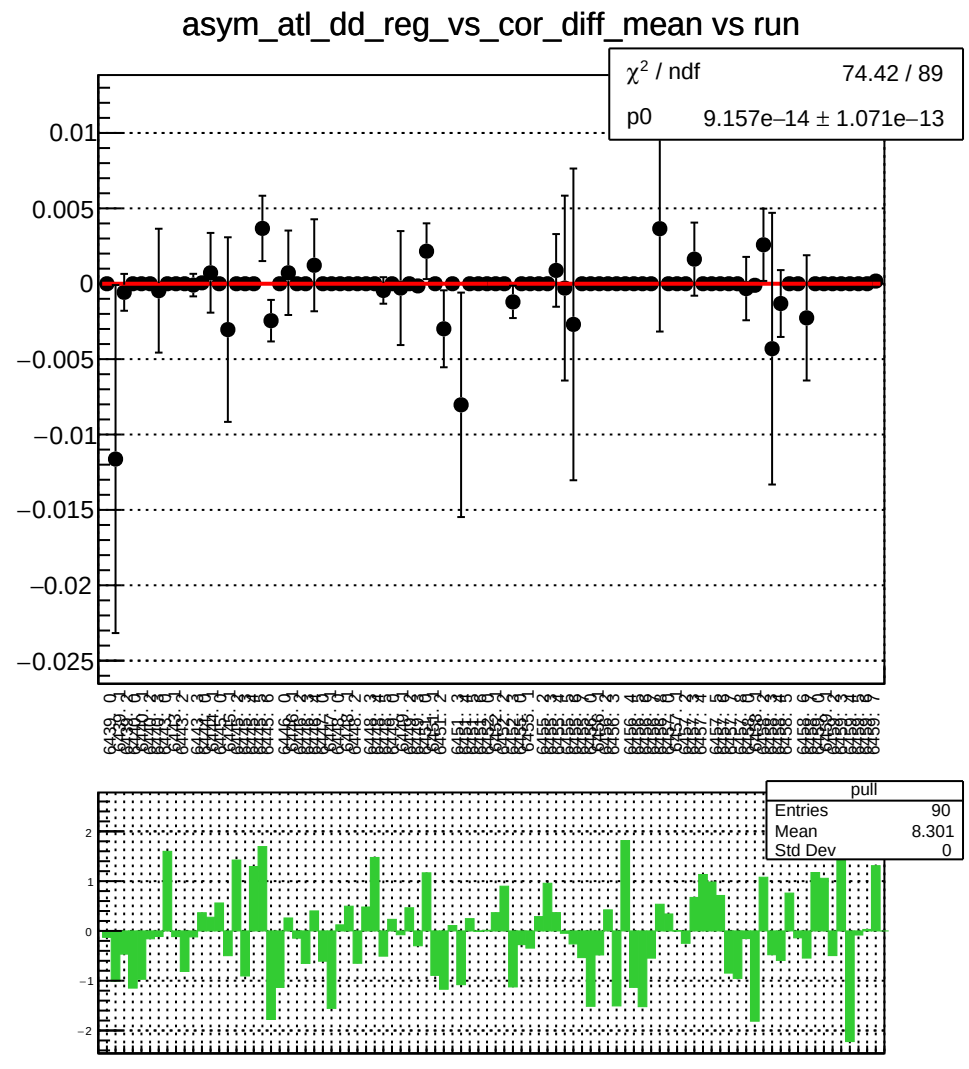

pull1D
Entries 90
Mean 0.01691
Std Dev 0.9411
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

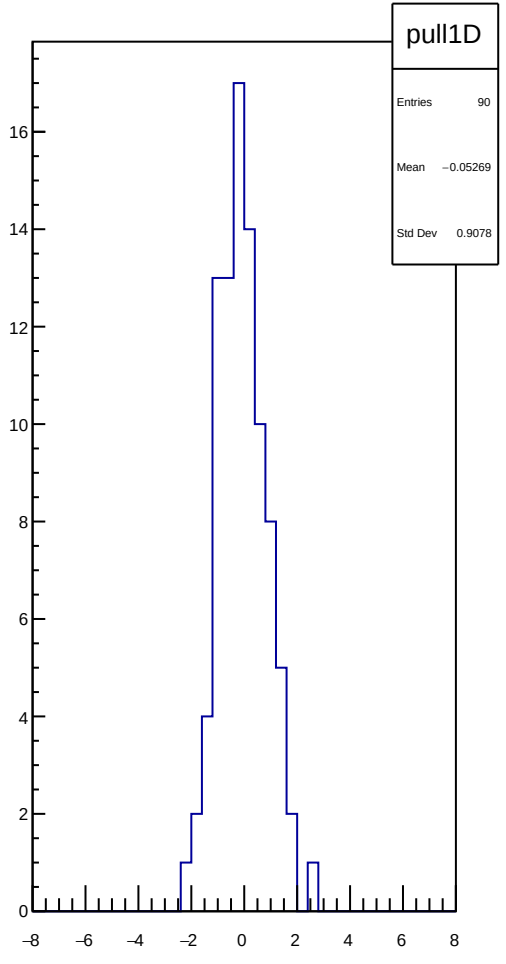

asym_atl_dd_eigen_dit_correction_rms vs run
χ² / ndf 2656 / 89
p0 3947 ± 2.959
4400
4200
4000
3800
3600

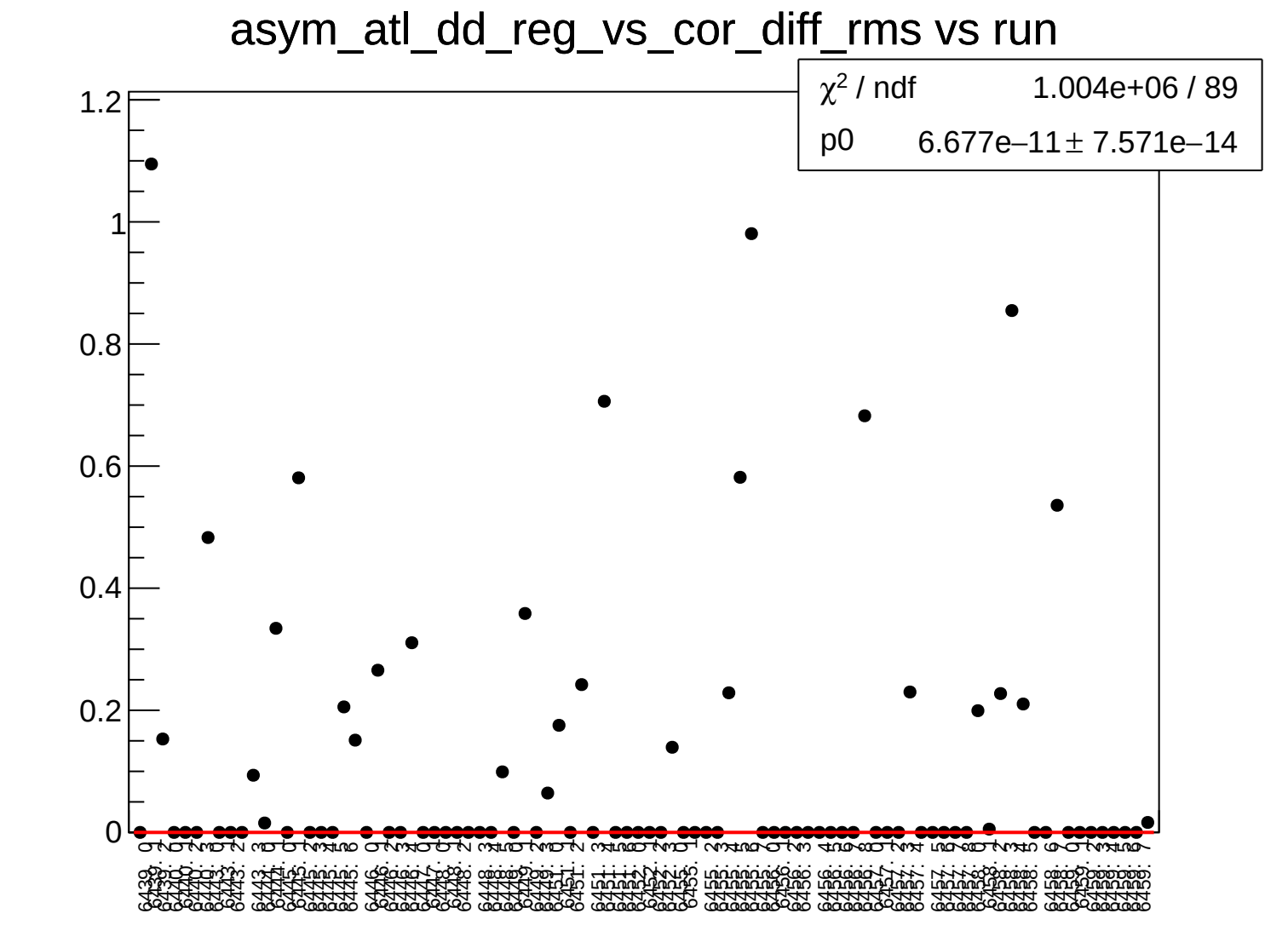

asym_atl_dd_mean vs run
×10^3
χ² / ndf 78.24 / 89
p0 −8167 ± 4550
150
100
50
0
−50
−100
−150
pull
Entries 90
Mean −42.32
Std Dev 0
2
1
0
−1
−2

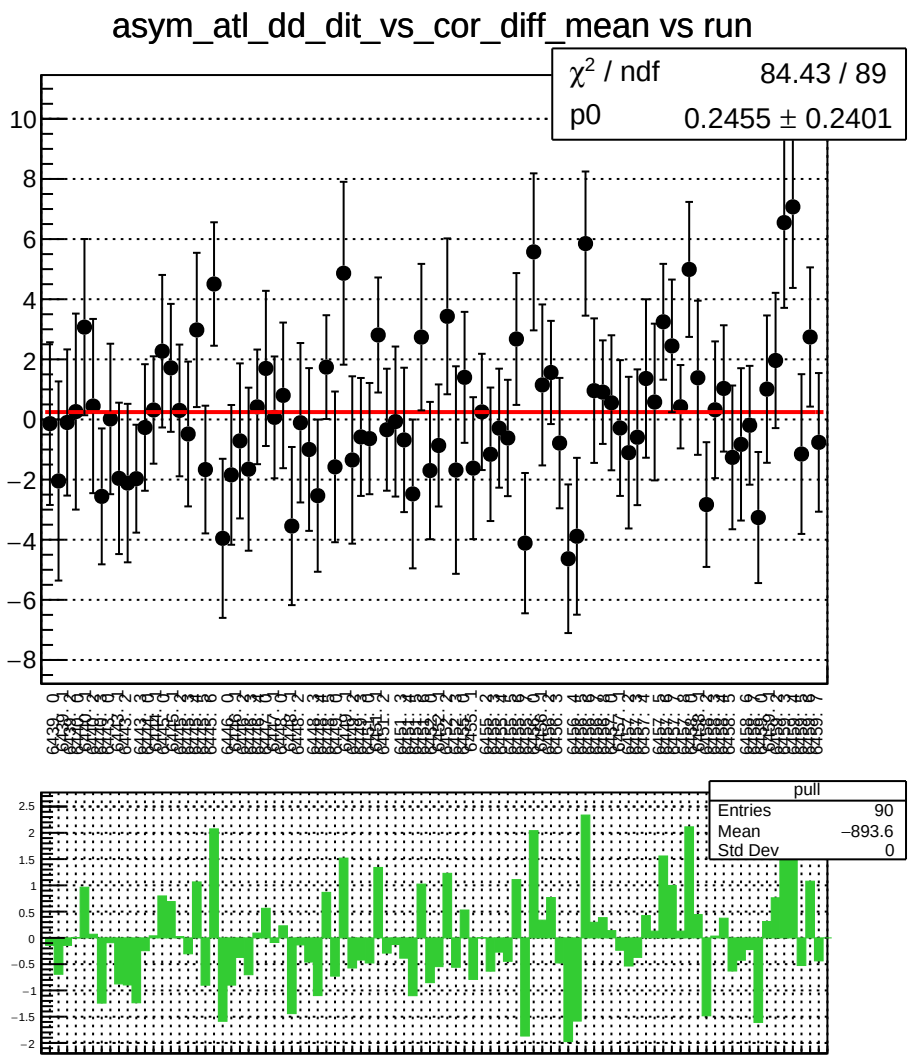

pull1D
Entries 90
Mean −0.01437
Std Dev 0.9323
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

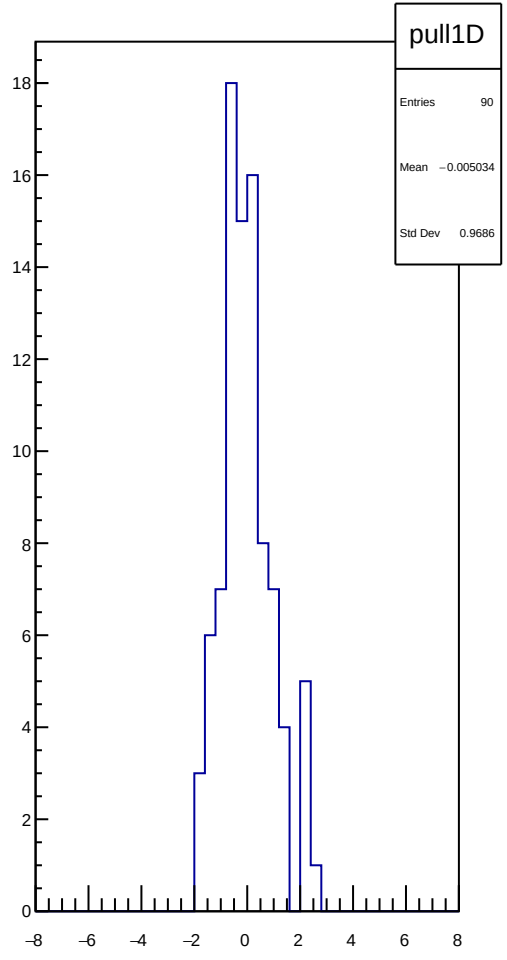

asym_atl_dd_rms vs run
χ² / ndf 1965 / 89
p0 4293 ± 3.218
4700
4600
4500
4400
4300
4200
4100
4000
3900

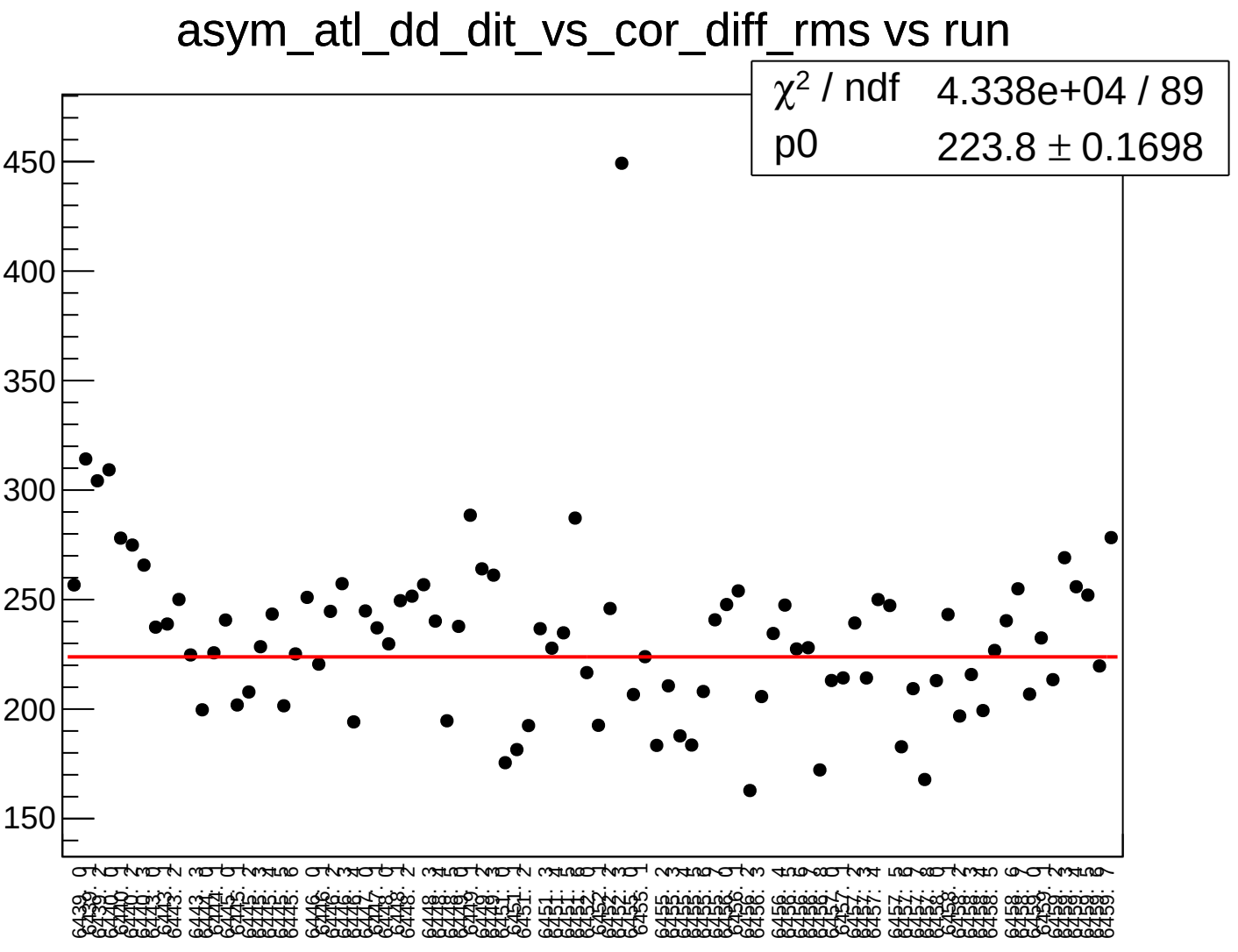

asym_atl_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 74.42 / 89
p0 9.157e−14 ± 1.071e−13
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
−0.025
pull
Entries 90
Mean 8.301
Std Dev 0
2
1
0
−1
−2

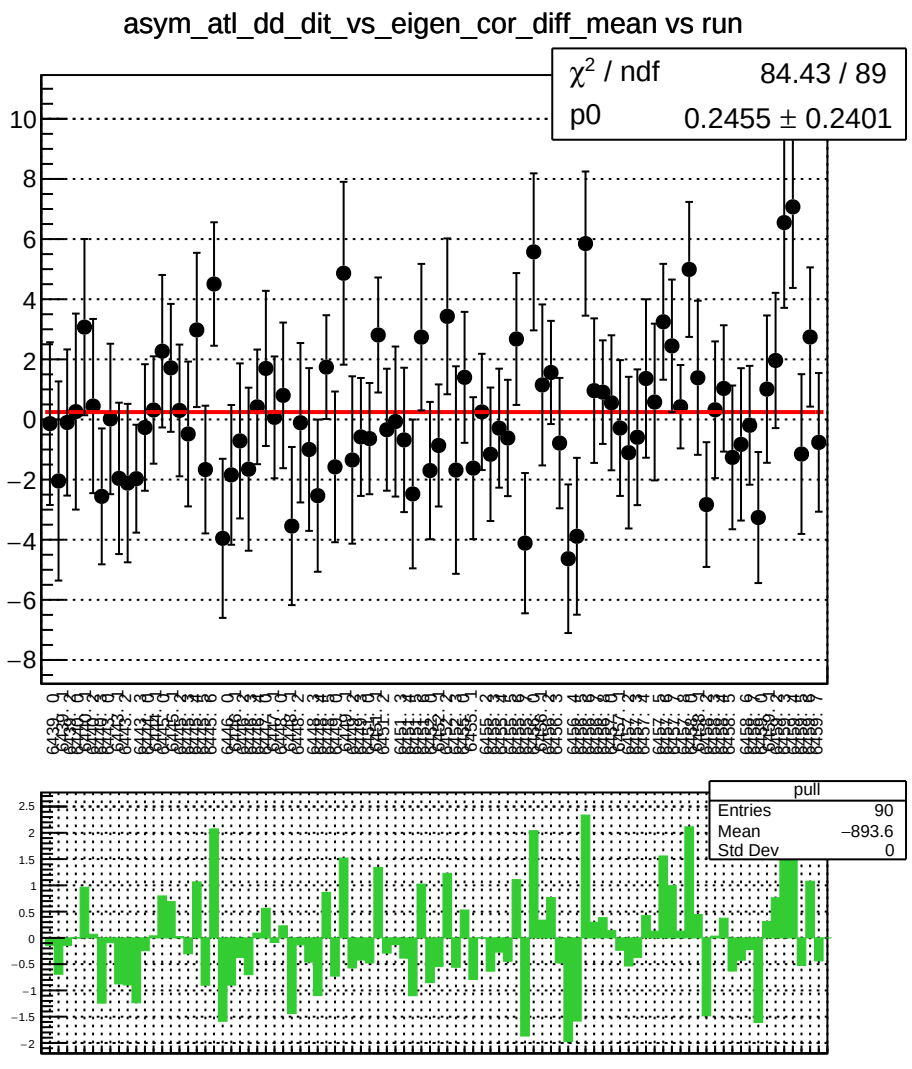

pull1D
Entries 90
Mean −0.05269
Std Dev 0.9078
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

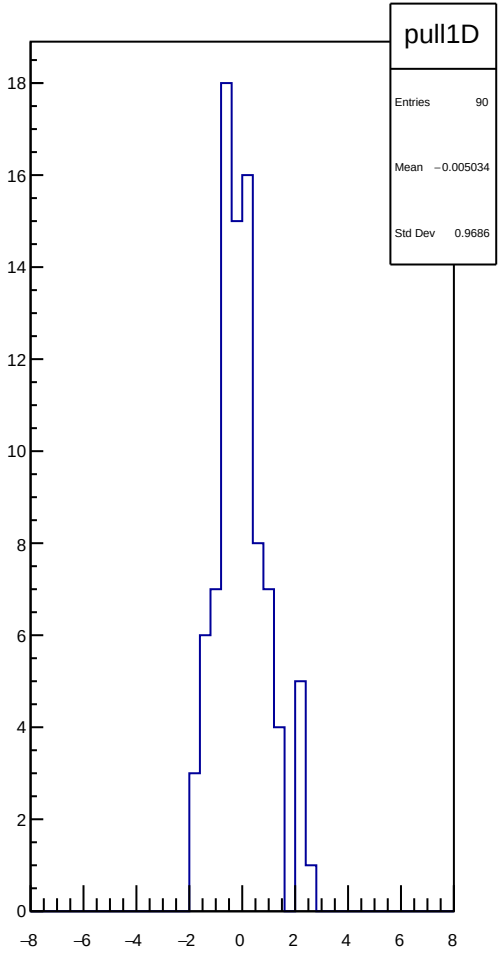

asym_atl_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.004e+06 / 89
p0 6.677e−11 ± 7.571e−14
1.2
1
0.8
0.6
0.4
0.2
0

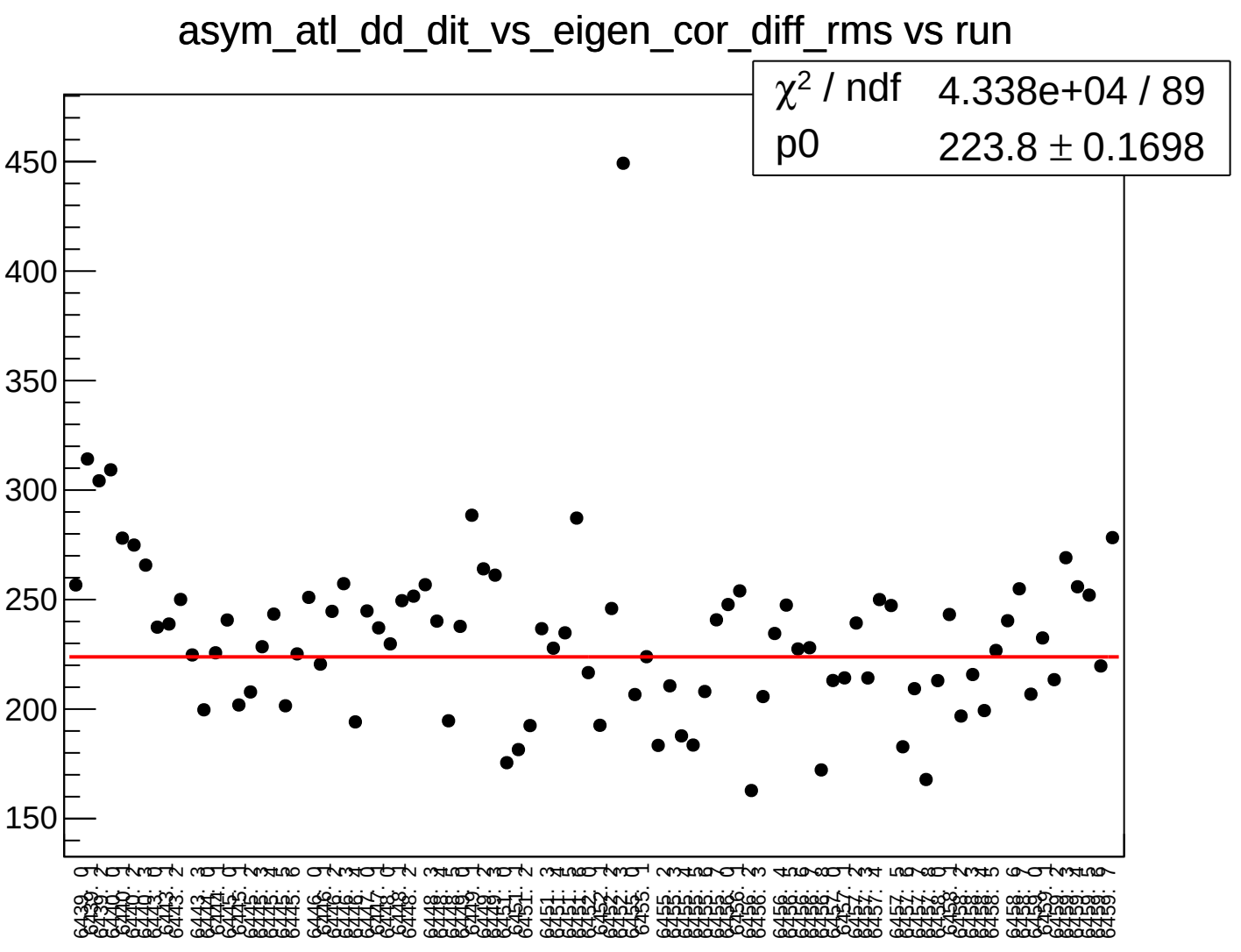

asym_atl_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 84.43 / 89
p0 0.2455 ± 0.2401
pull
Entries 90
Mean −893.6
Std Dev 0

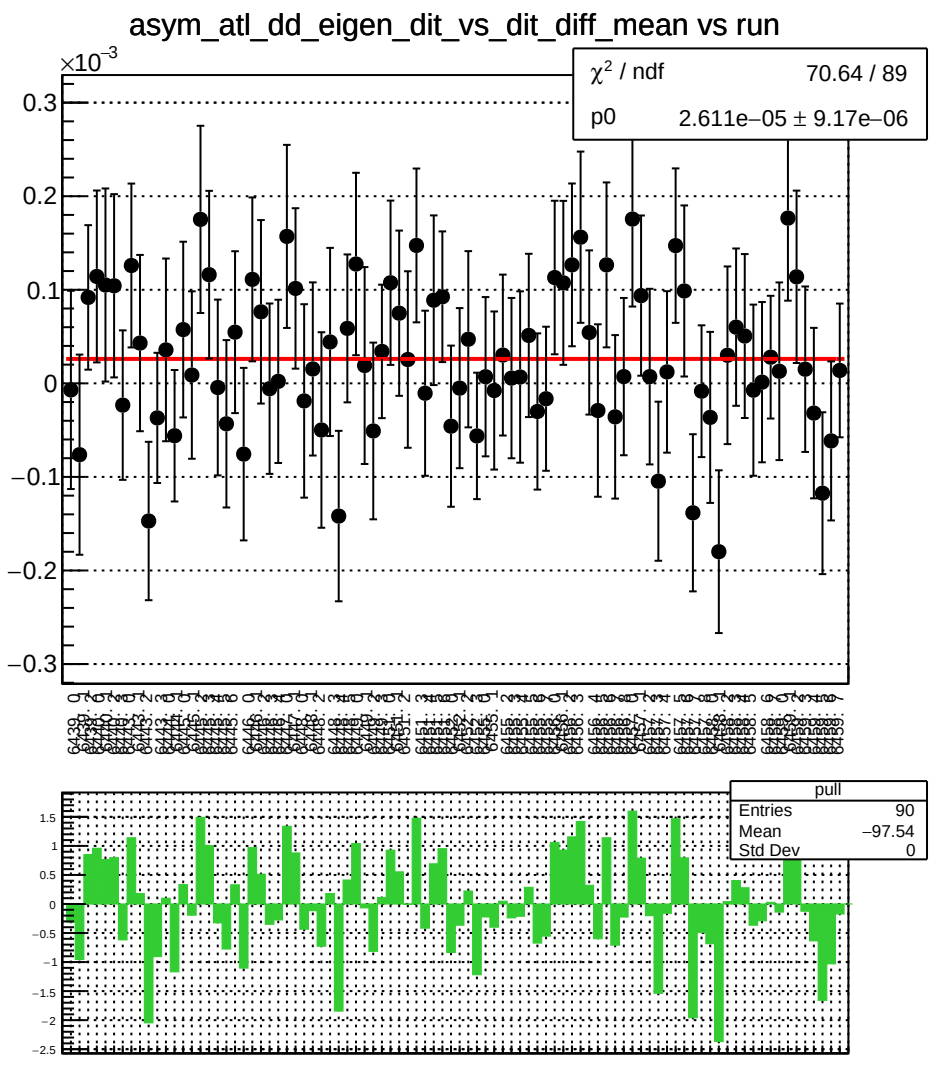

pull1D
Entries 90
Mean −0.005034
Std Dev 0.9686

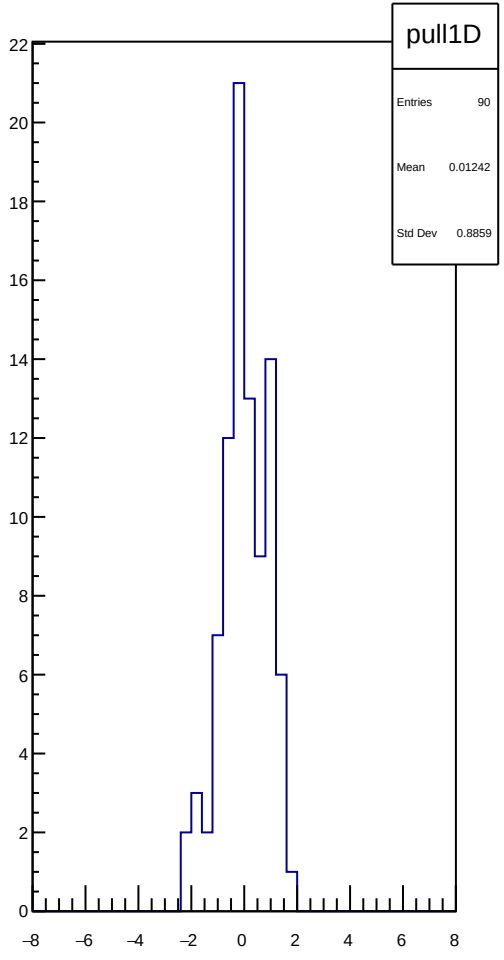

asym_atl_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.338e+04 / 89
p0 223.8 ± 0.1698
450
400
350
300
250
200
150

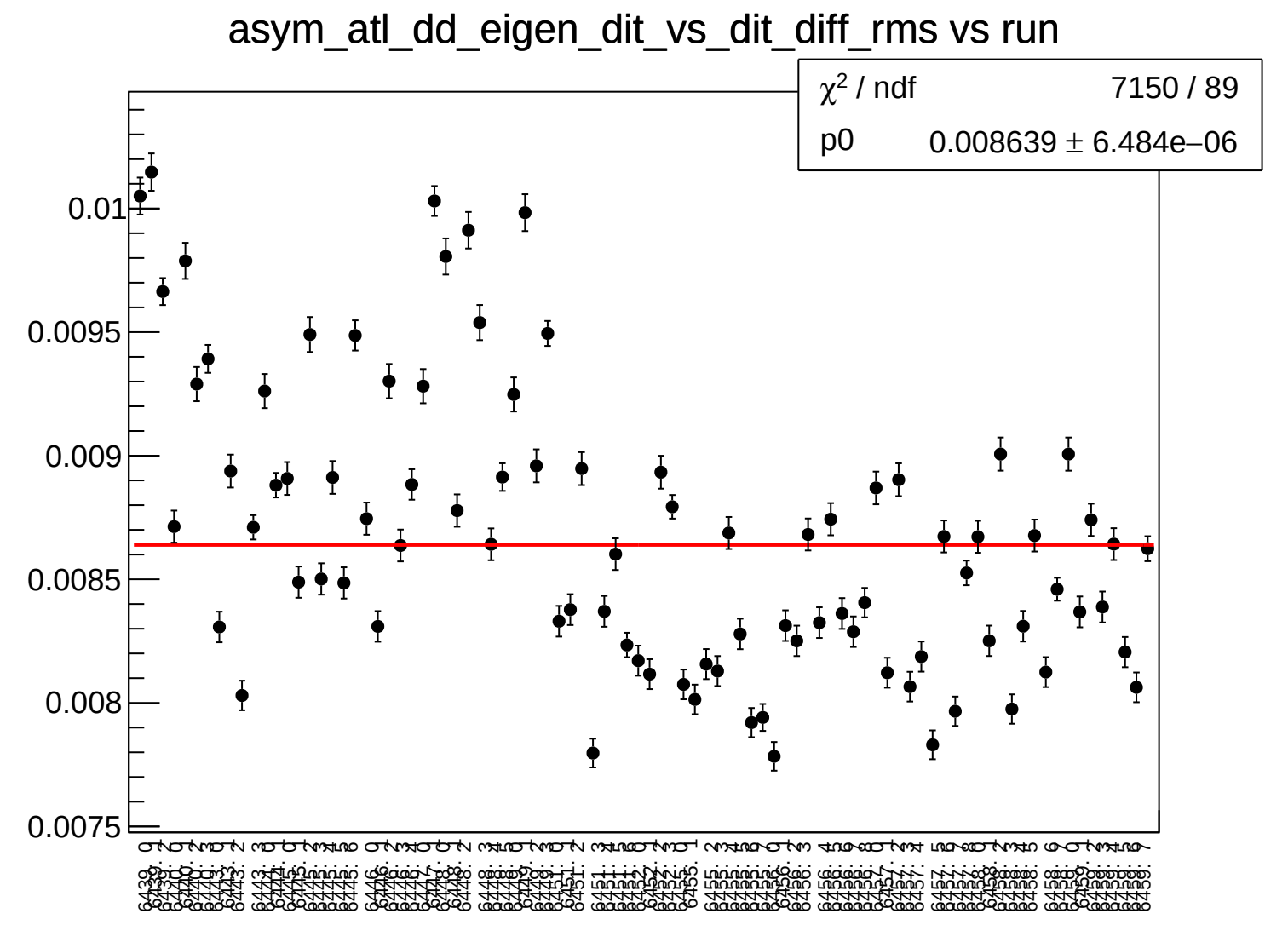

asym_atl_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.43 / 89
p0 0.2455 ± 0.2401
pull
Entries 90
Mean −893.6
Std Dev 0

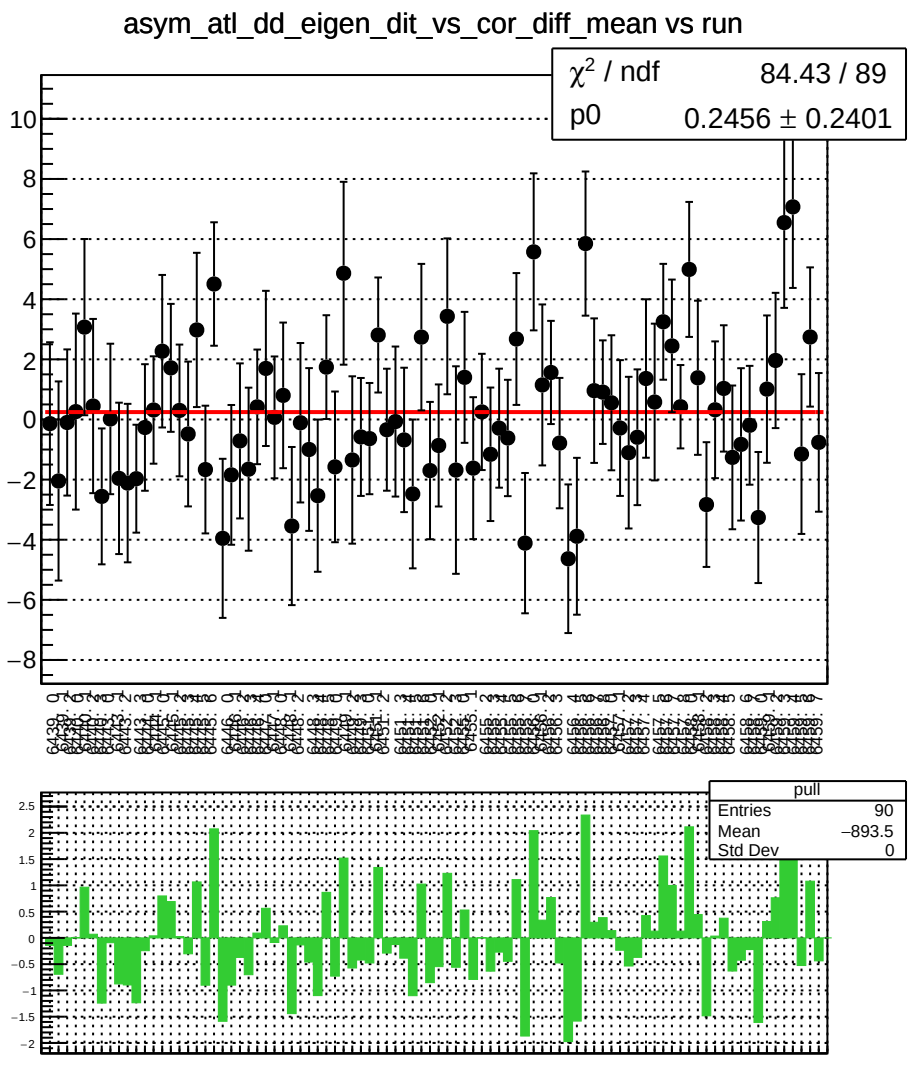

pull1D
Entries 90
Mean −0.005034
Std Dev 0.9686

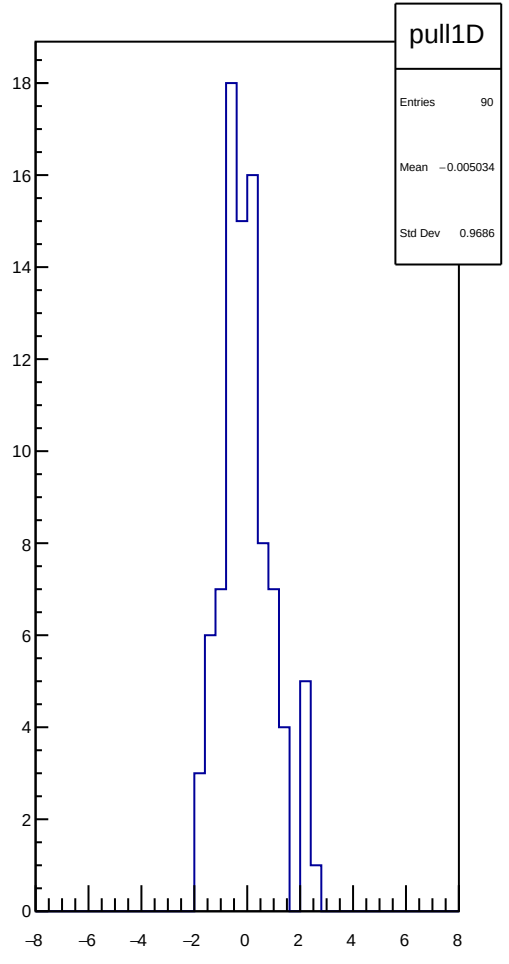

asym_atl_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.338e+04 / 89
p0 223.8 ± 0.1698
450
400
350
300
250
200
150

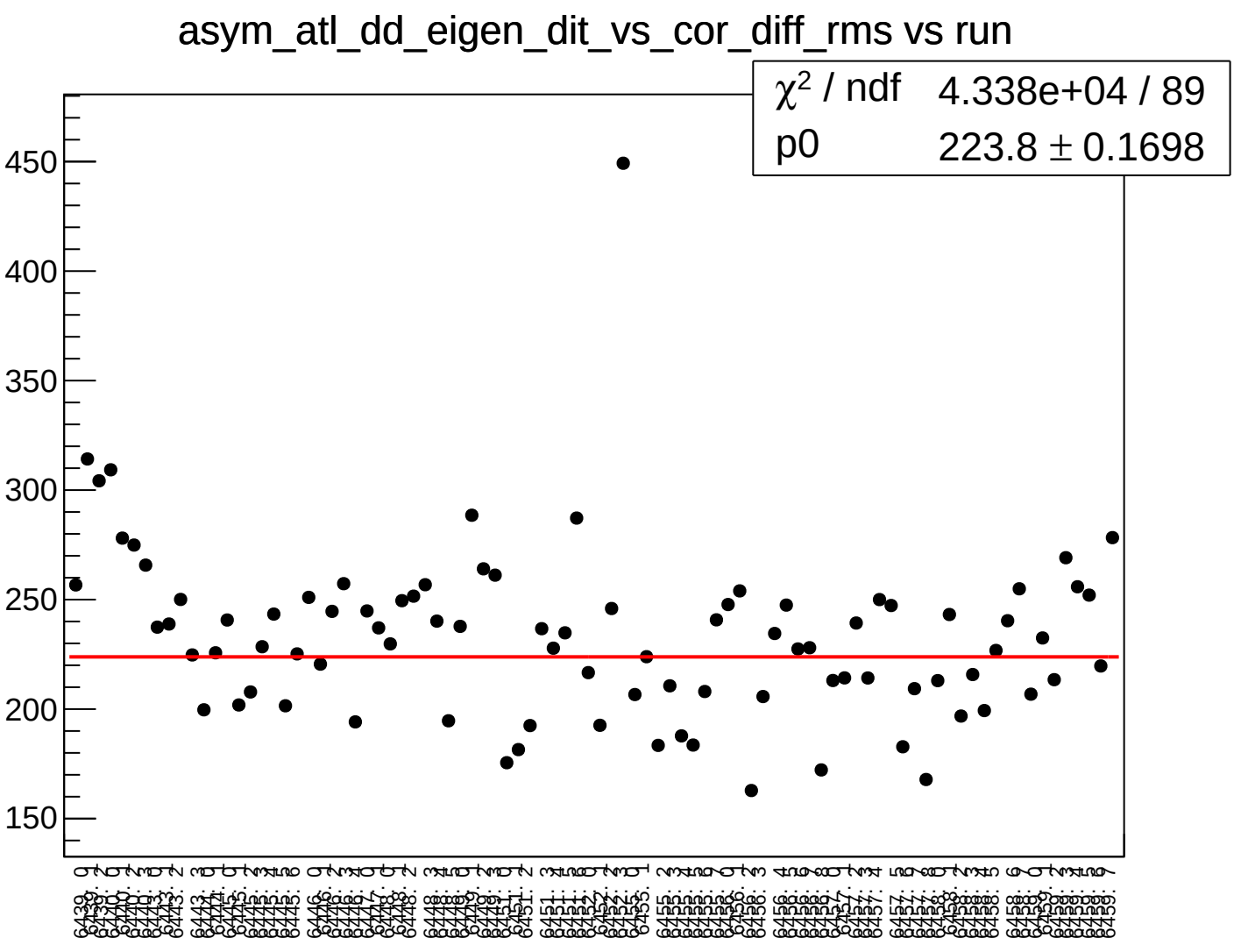

asym_atl_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 70.64 / 89
p0 2.611e−05 ± 9.17e−06
pull
Entries 90
Mean −97.54
Std Dev 0

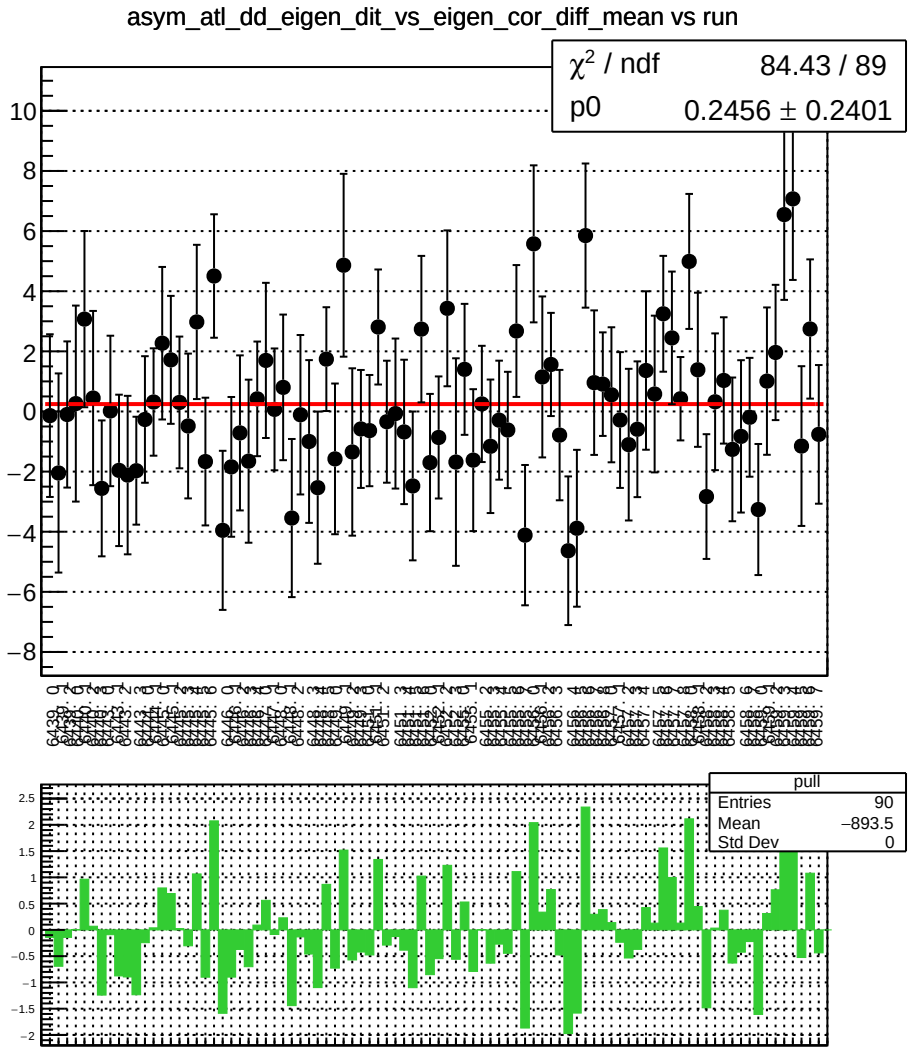

pull1D
Entries 90
Mean 0.01242
Std Dev 0.8859

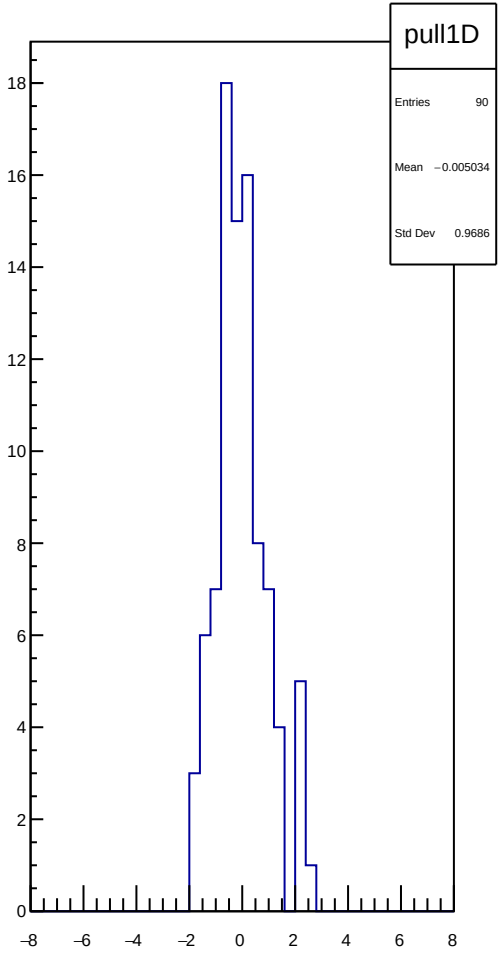

asym_atl_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7150 / 89
p0 0.008639 ± 6.484e−06
0.01
0.0095
0.009
0.0085
0.008
0.0075

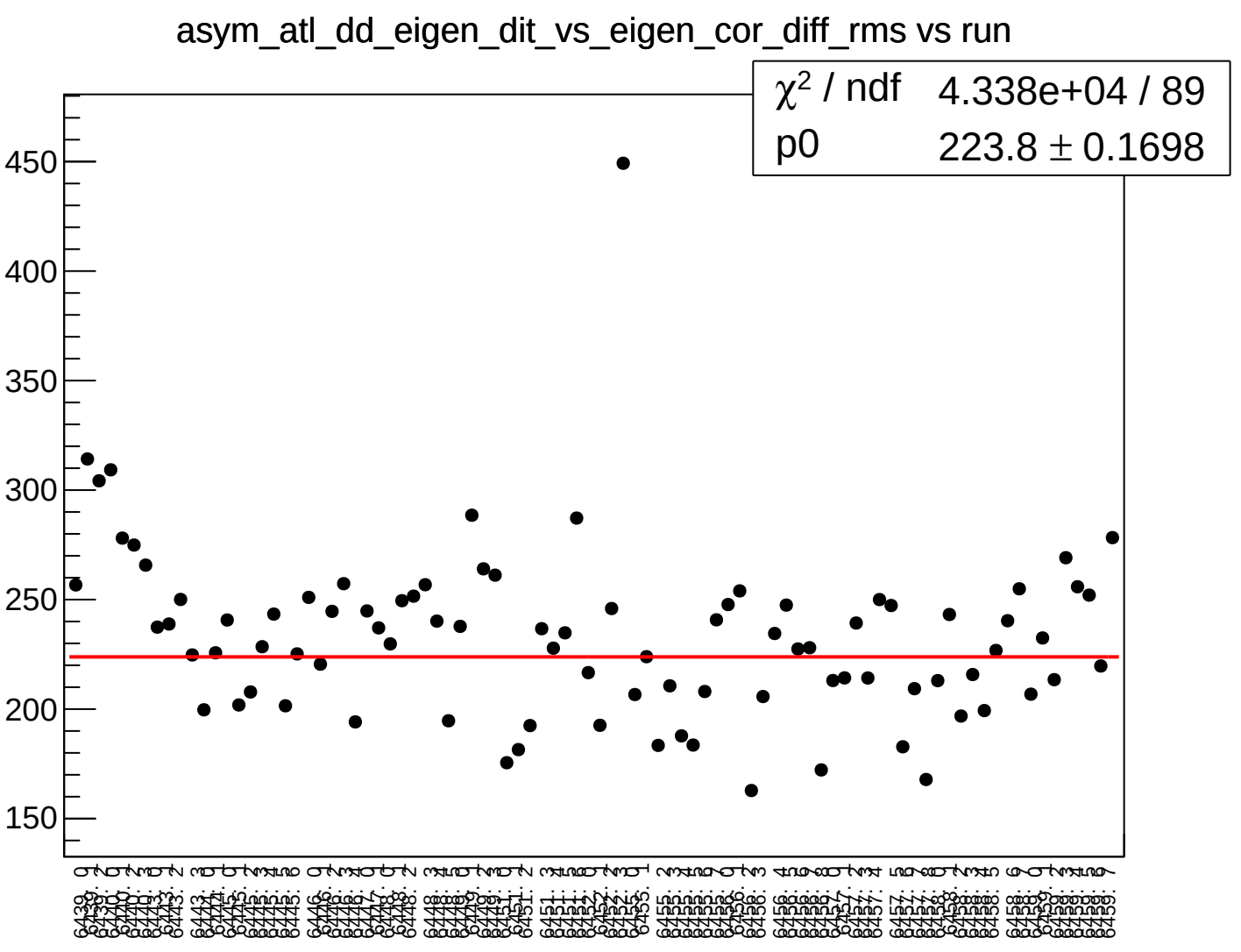

asym_atl_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.43 / 89
p0 0.2456 ± 0.2401
pull
Entries 90
Mean −893.5
Std Dev 0

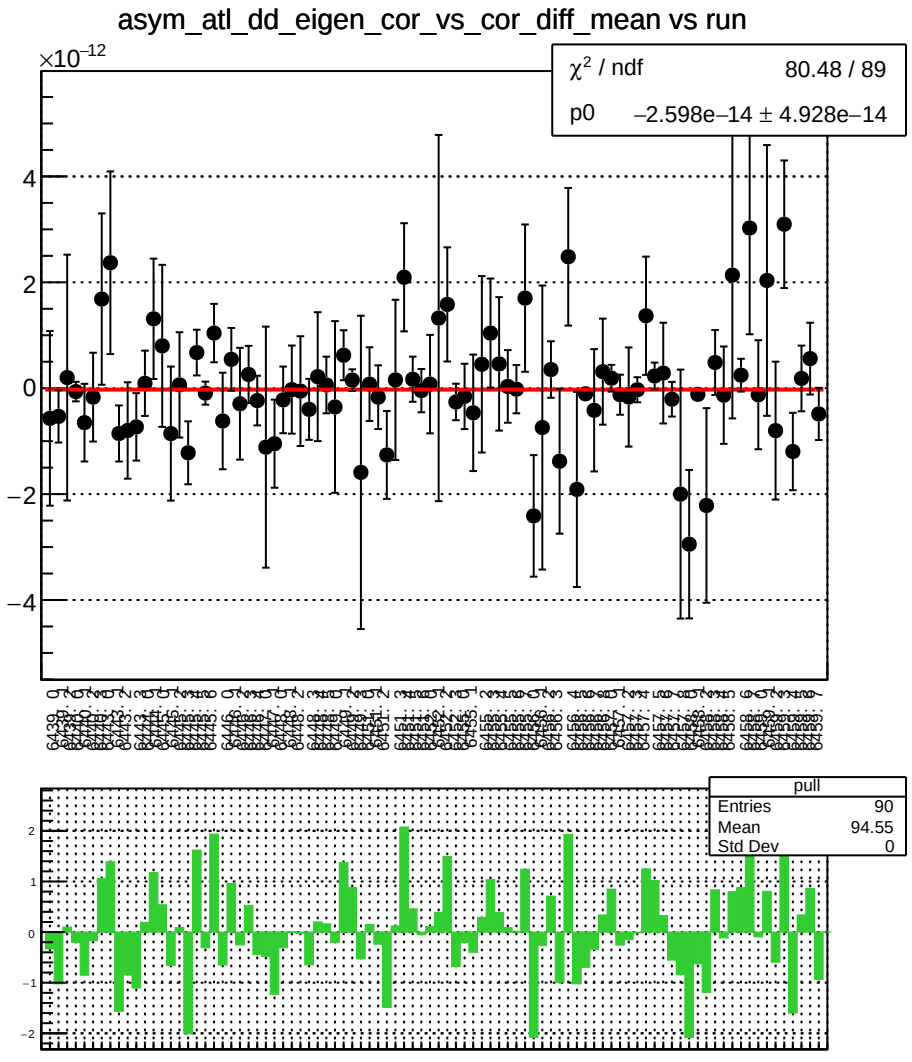

pull1D
Entries 90
Mean −0.005034
Std Dev 0.9686

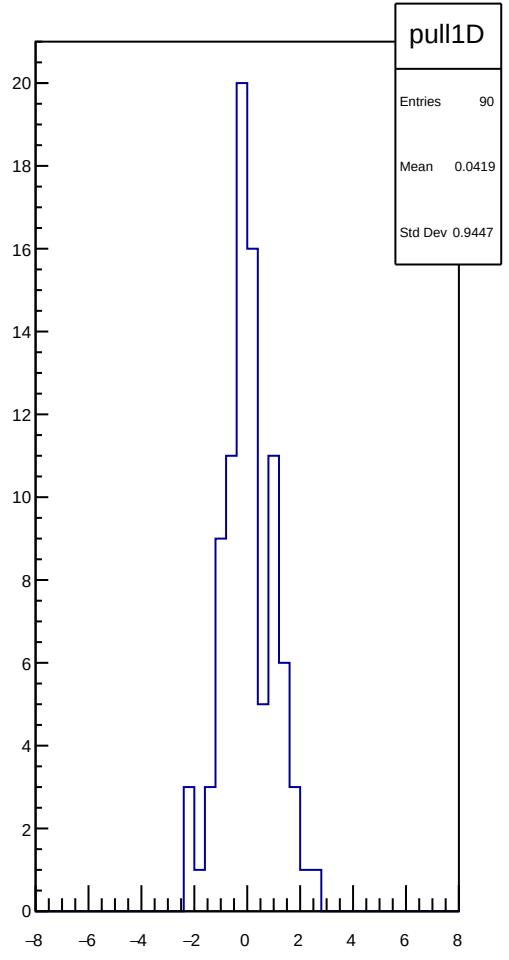

asym_atl_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.338e+04 / 89
p0 223.8 ± 0.1698
450
400
350
300
250
200
150

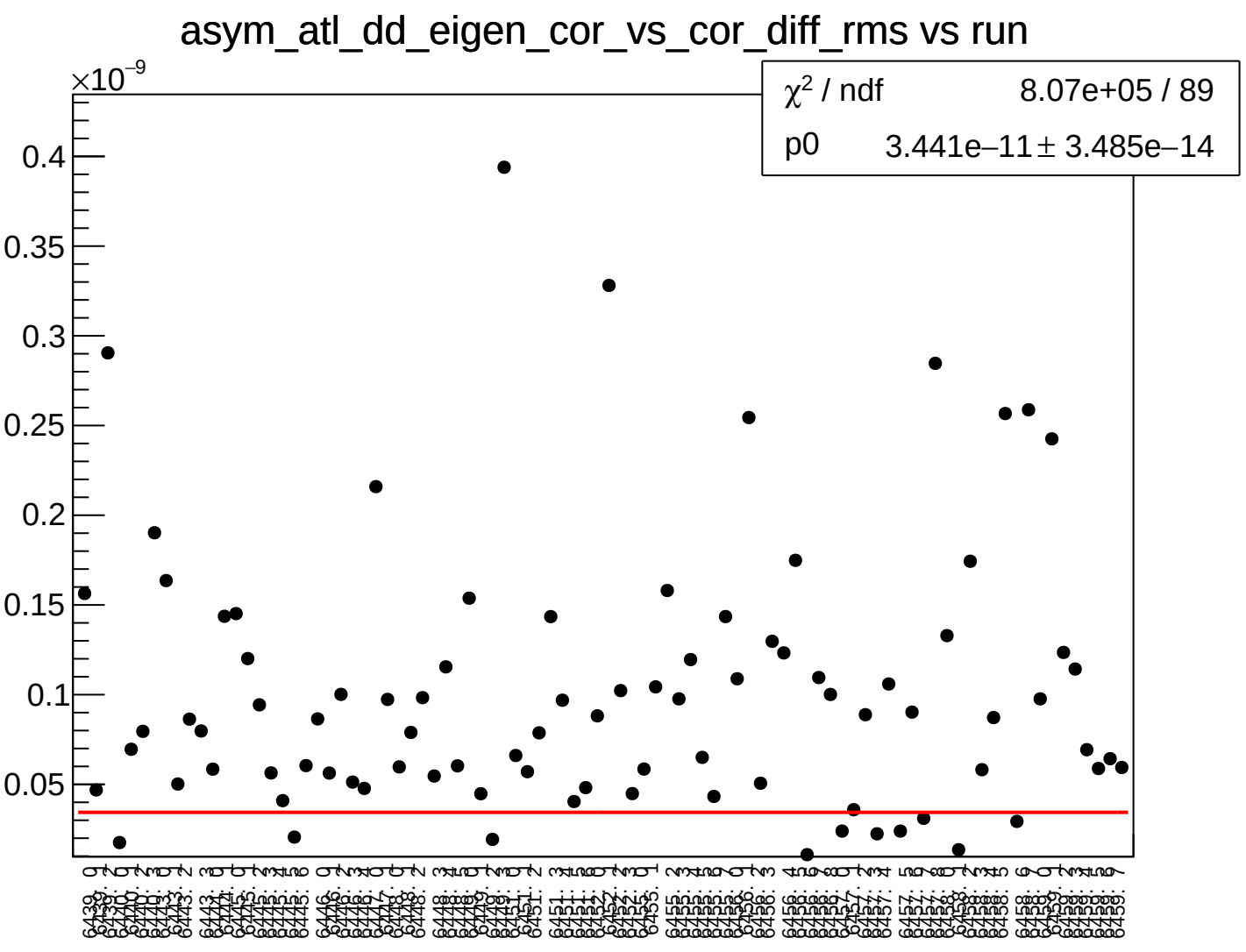

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.43 / 89
p0 0.2456 ± 0.2401
pull
Entries 90
Mean −893.5
Std Dev 0

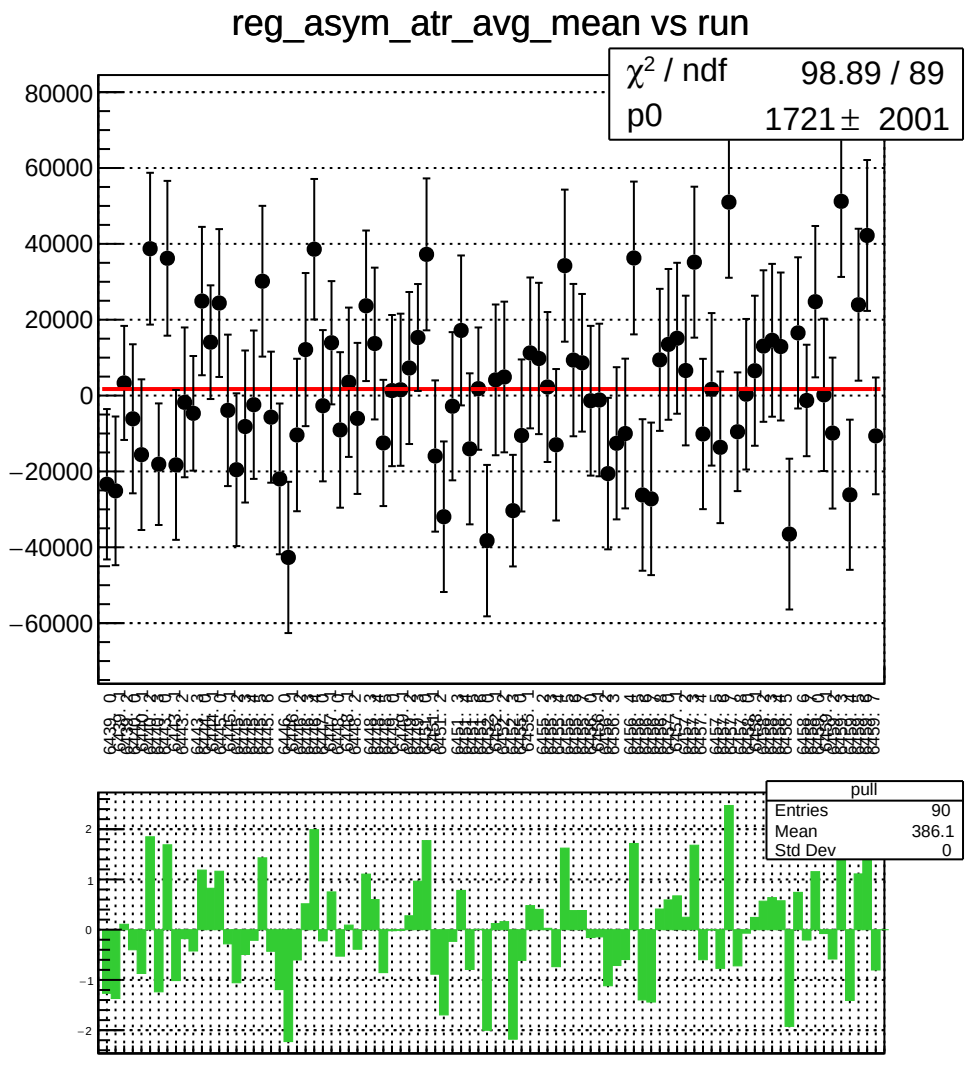

pull1D
Entries 90
Mean −0.005034
Std Dev 0.9686

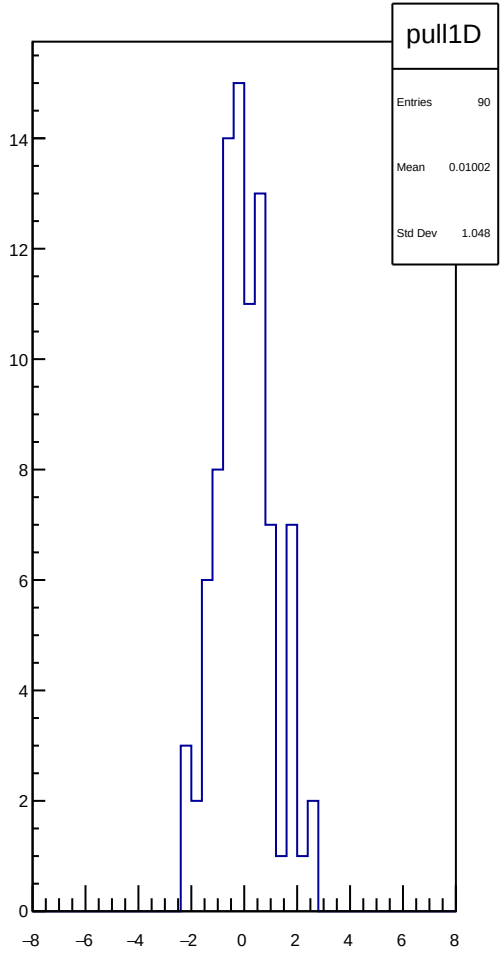

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.338e+04 / 89
p0 223.8 ± 0.1698
450
400
350
300
250
200
150

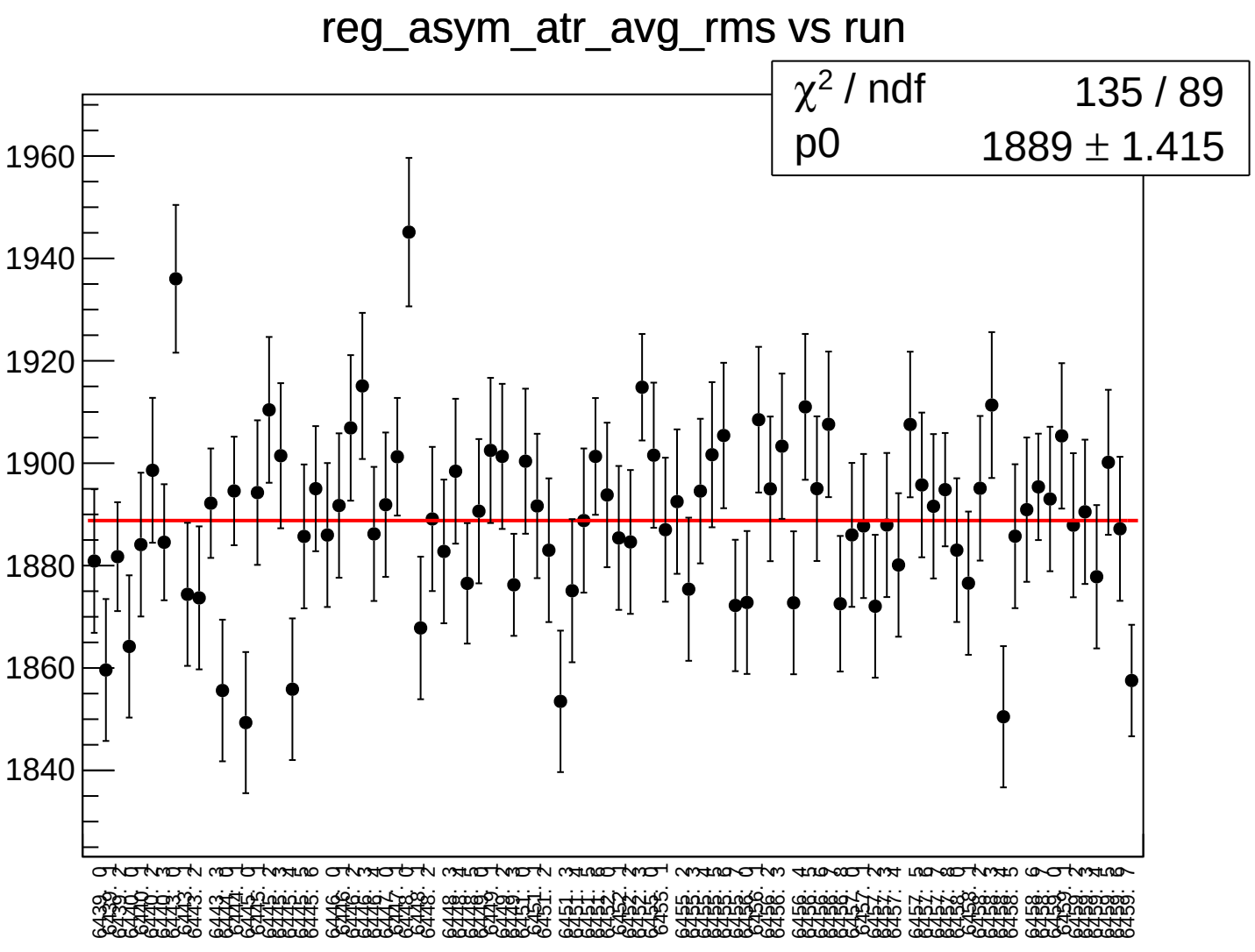

asym_atl_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.48 / 89
p0 −2.598e−14 ± 4.928e−14
pull
Entries 90
Mean 94.55
Std Dev 0

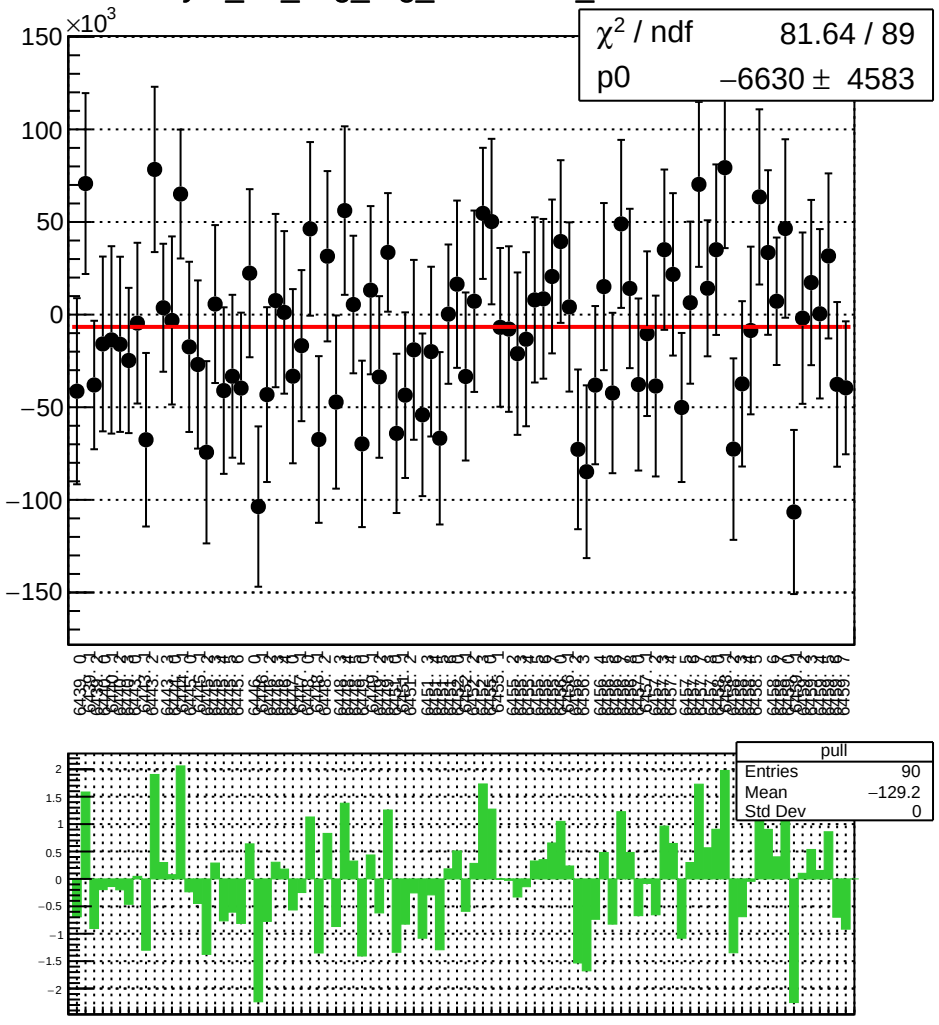

pull1D
Entries 90
Mean 0.0419
Std Dev 0.9447

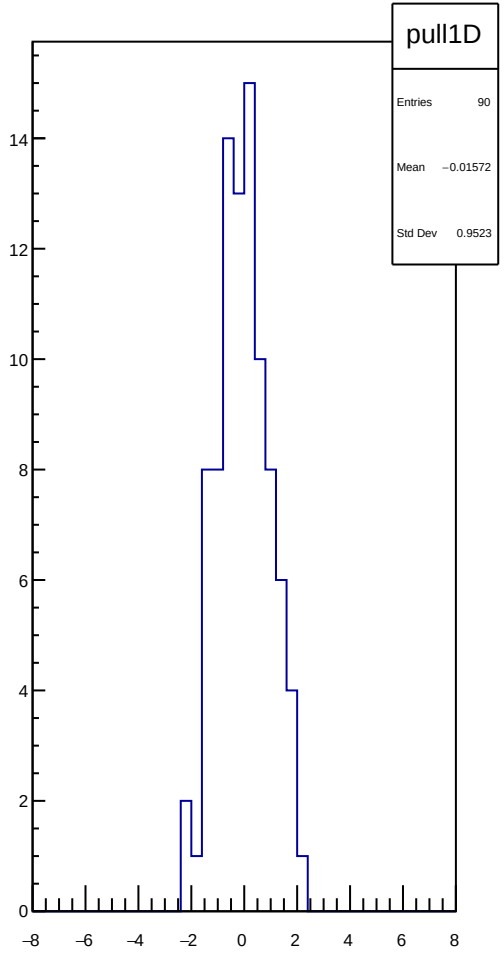

asym_atl_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.07e+05 / 89
p0 3.441e−11 ± 3.485e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

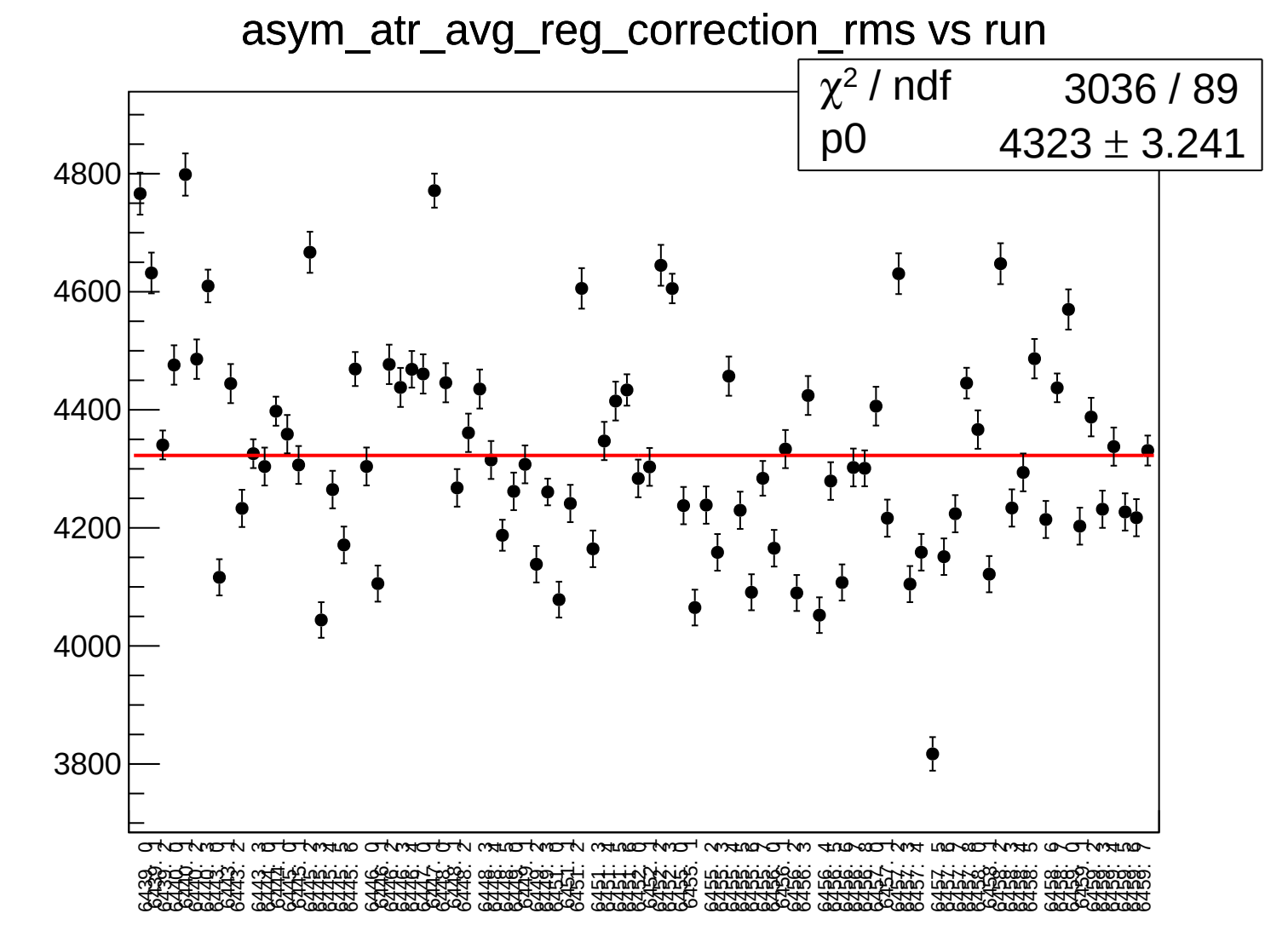

reg_asym_atr_avg_mean vs run
χ² / ndf 98.89 / 89
p0 1721 ± 2001
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 386.1
Std Dev 0
2
1
0
−1
−2

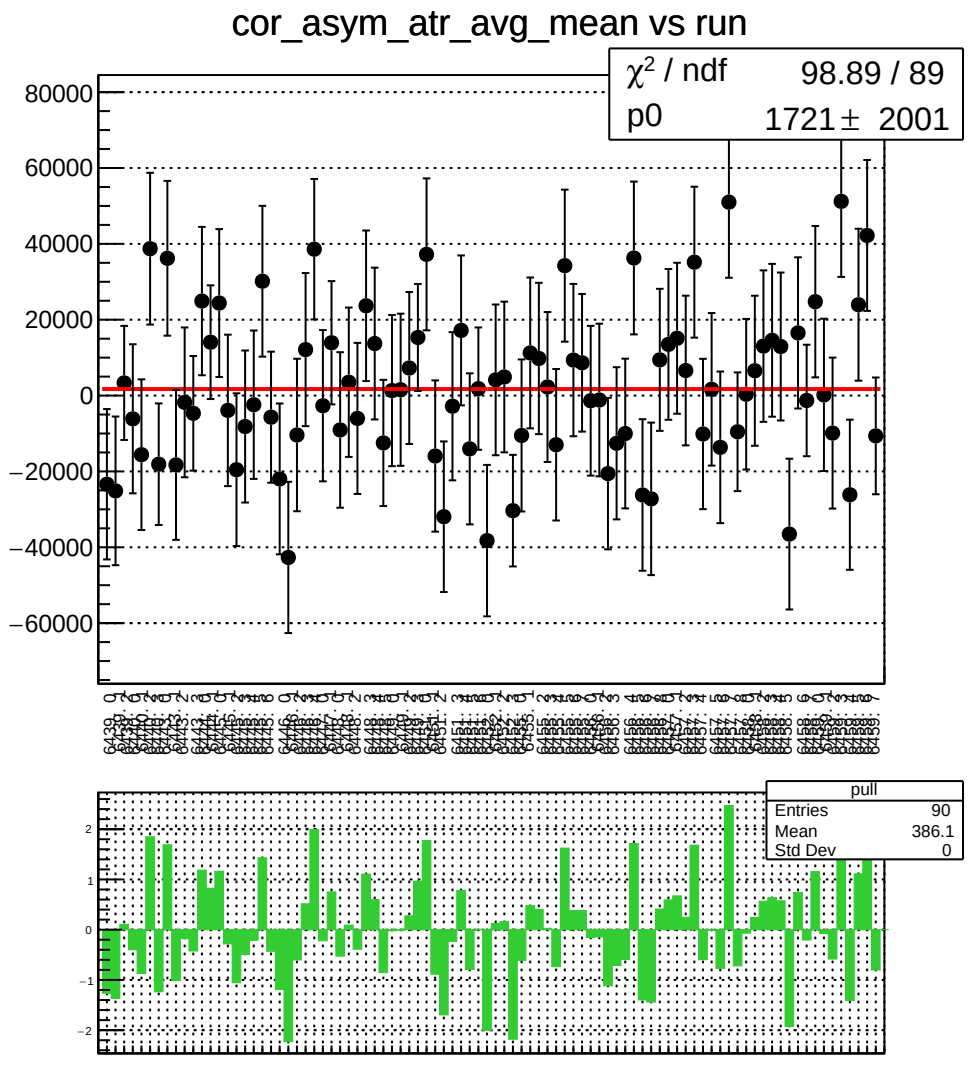

pull1D
Entries 90
Mean 0.01002
Std Dev 1.048
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

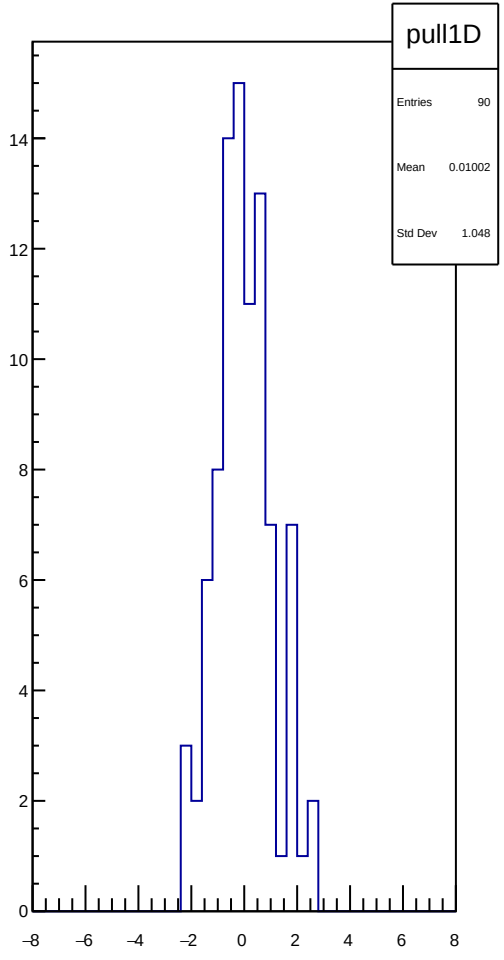

reg_asym_atr_avg_rms vs run
χ² / ndf 135 / 89
p0 1889 ± 1.415
1960
1940
1920
1900
1880
1860
1840

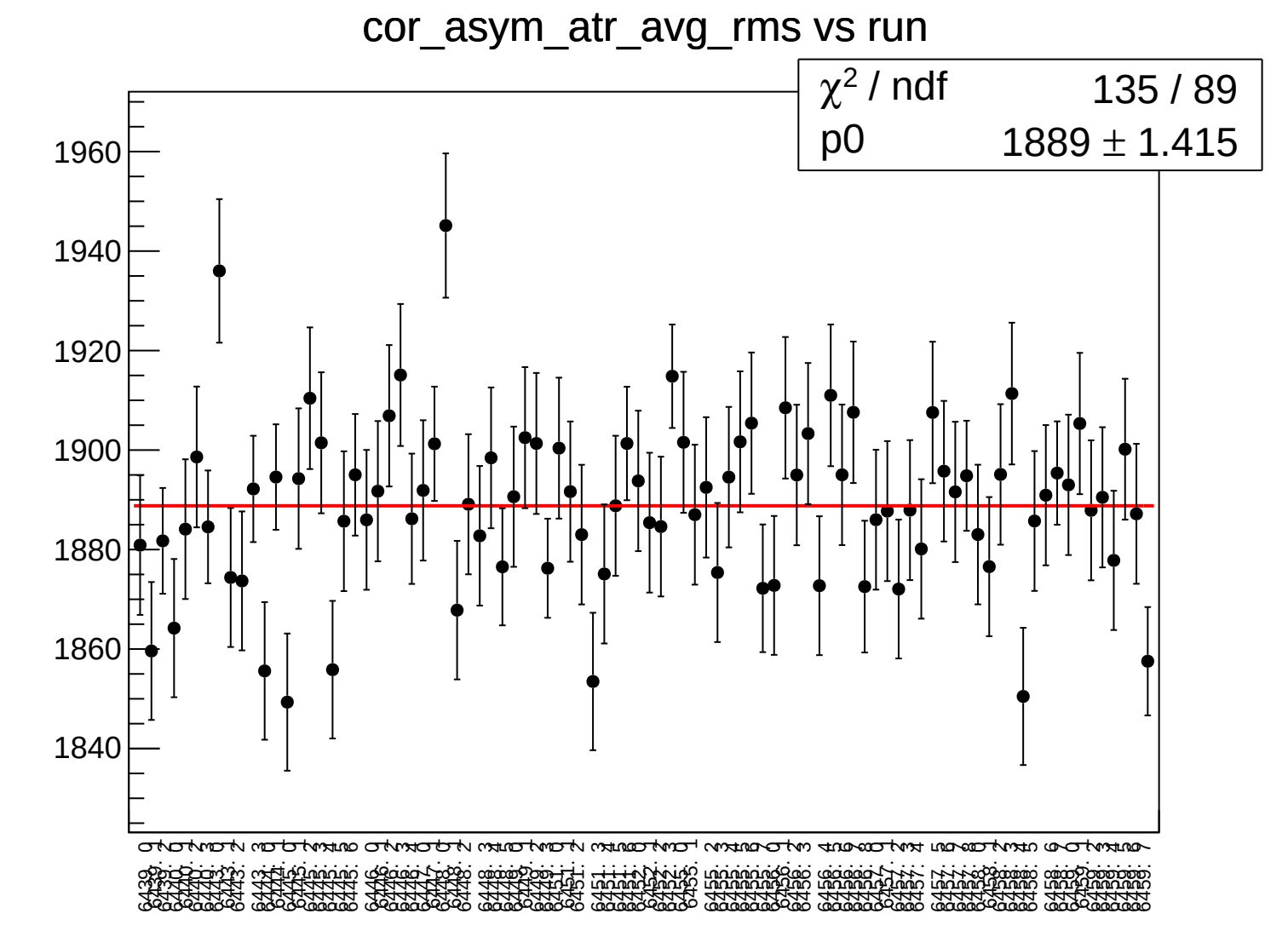

asym_atr_avg_reg_correction_mean vs run
χ² / ndf 81.64 / 89
p0 −6630 ± 4583
×10³
150
100
50
0
−50
−100
−150
pull
Entries 90
Mean −129.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

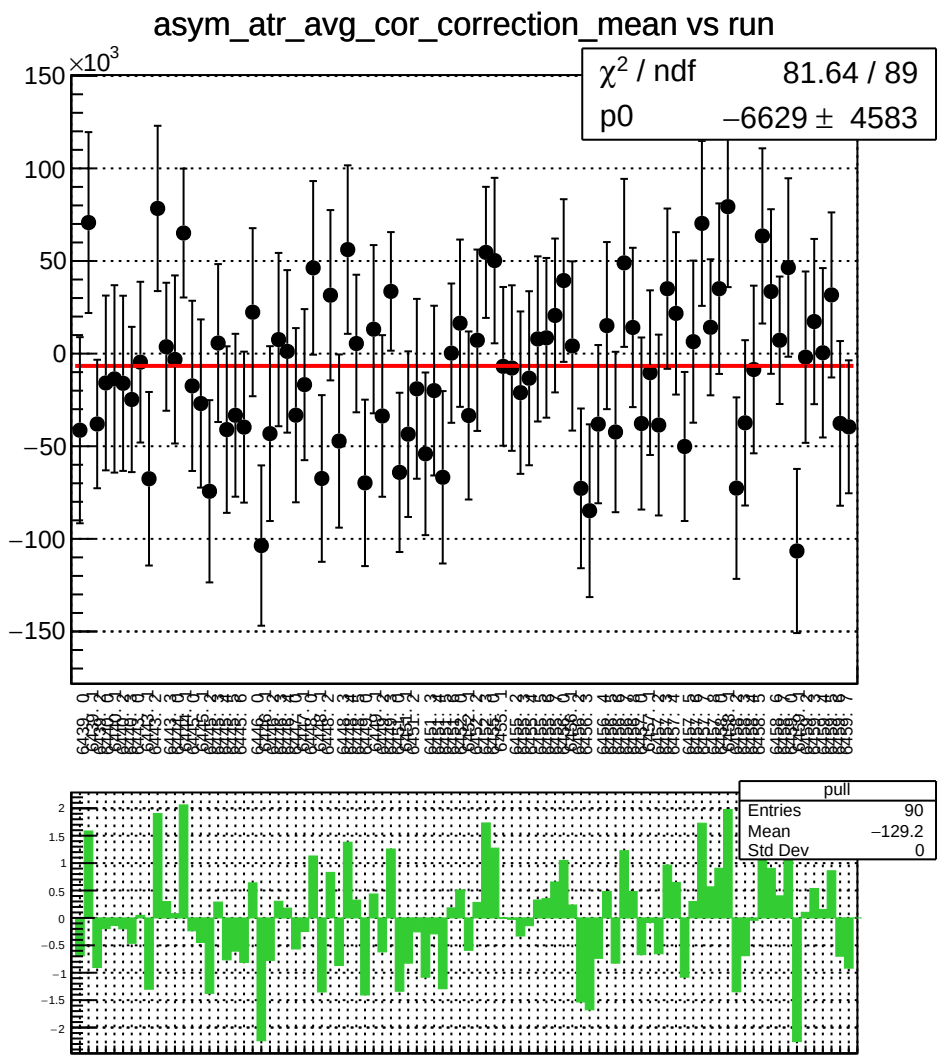

pull1D
Entries 90
Mean −0.01572
Std Dev 0.9523
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

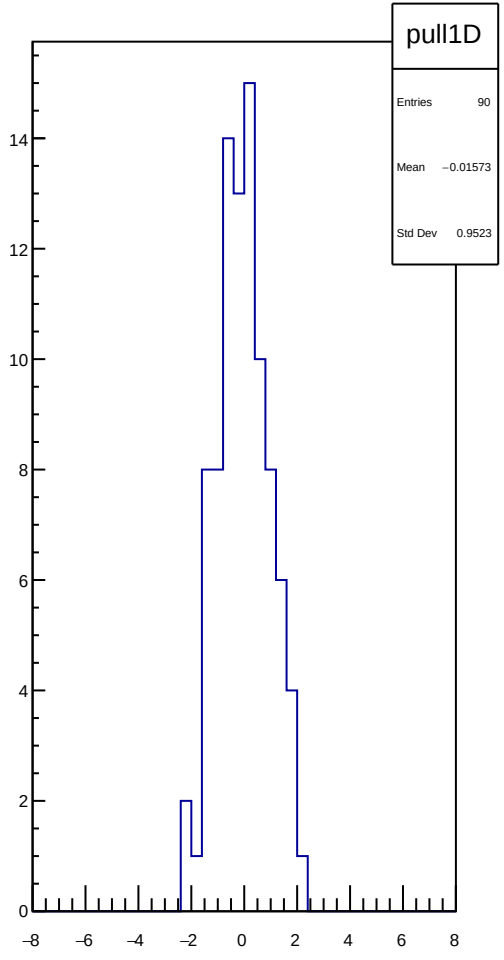

asym_atr_avg_reg_correction_rms vs run
χ² / ndf 3036 / 89
p0 4323 ± 3.241
4800
4600
4400
4200
4000
3800

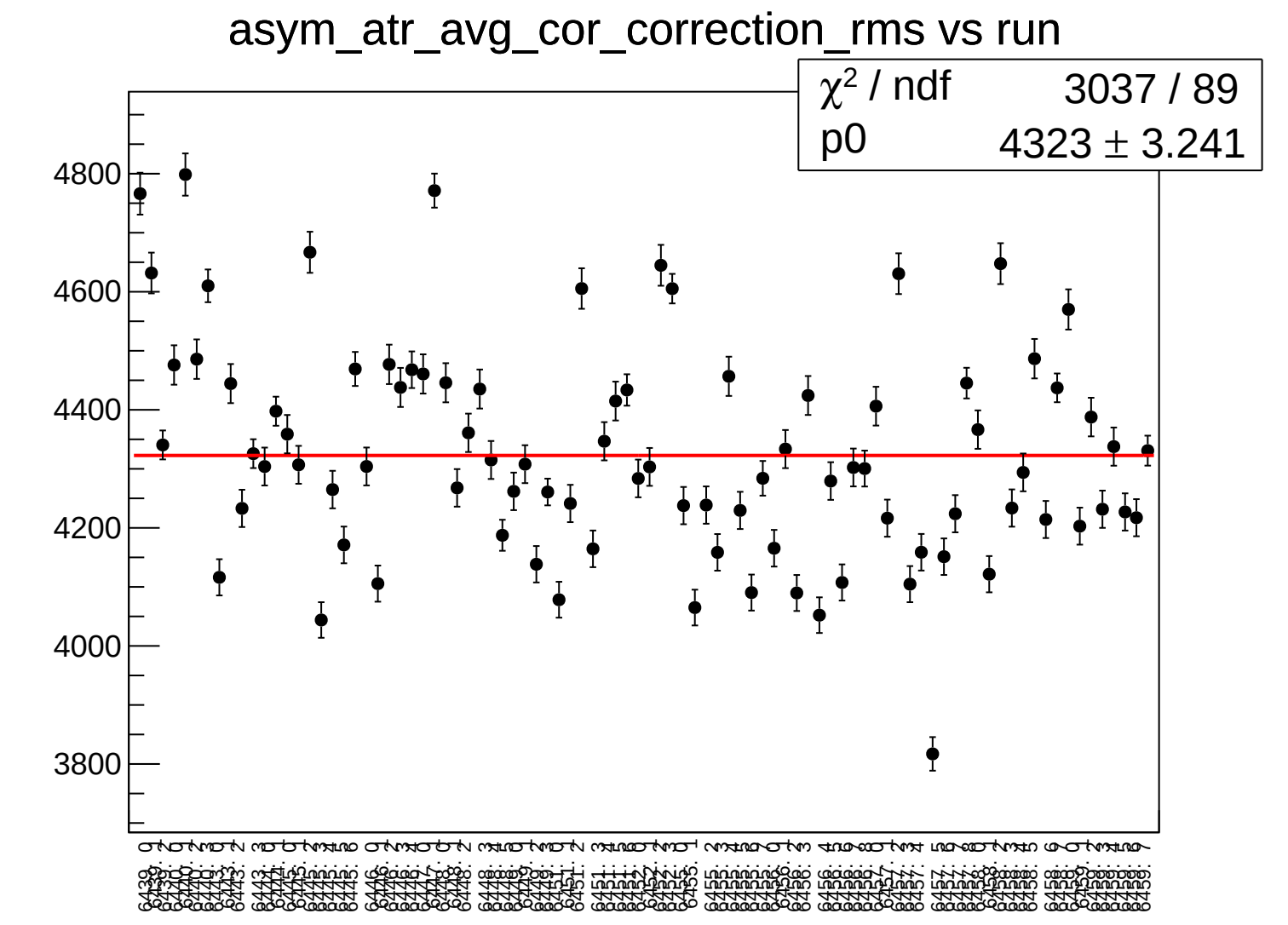

cor_asym_atr_avg_mean vs run
χ² / ndf 98.89 / 89
p0 1721 ± 2001
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 386.1
Std Dev 0
2
1
0
−1
−2

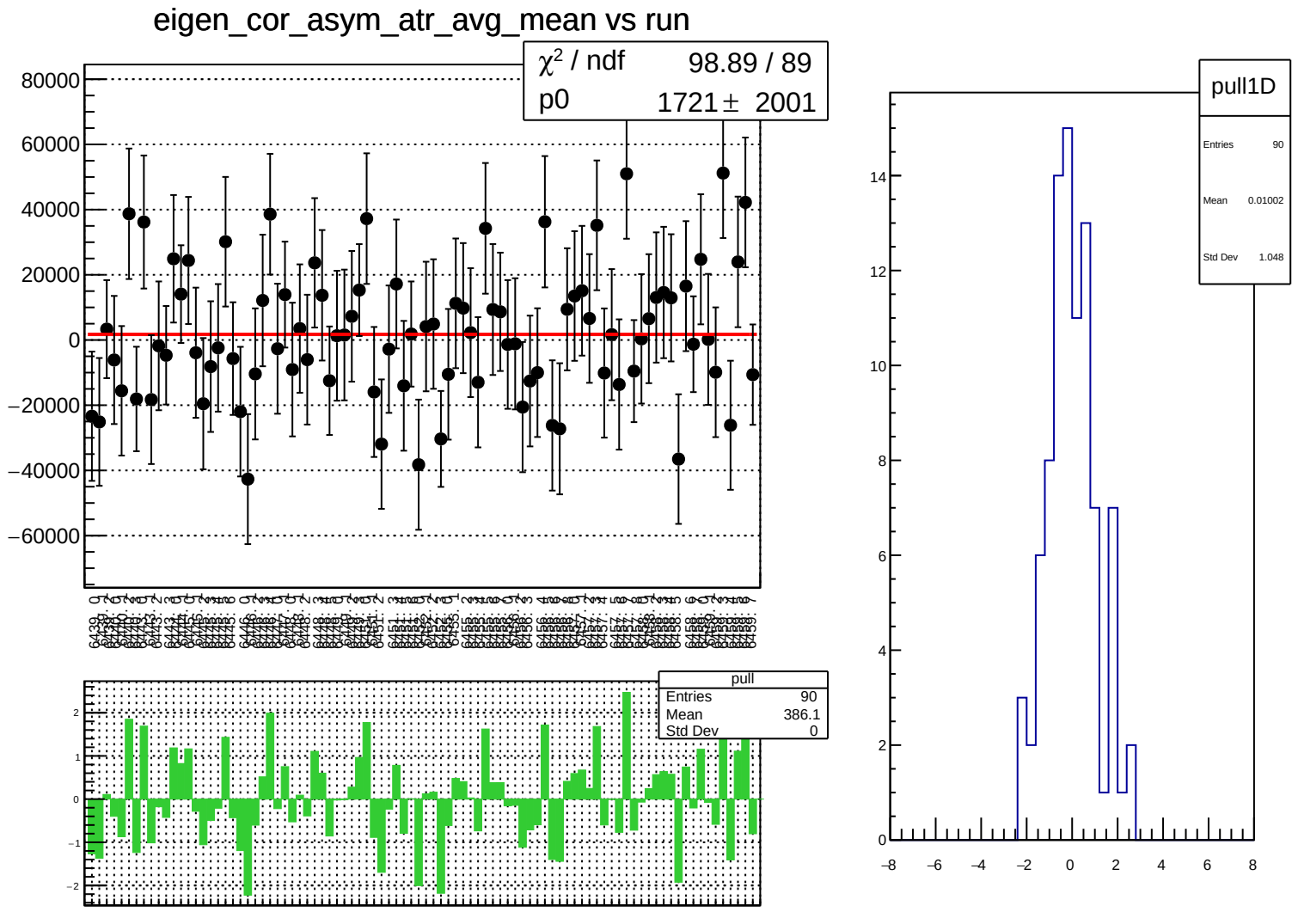

pull1D
Entries 90
Mean 0.01002
Std Dev 1.048
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

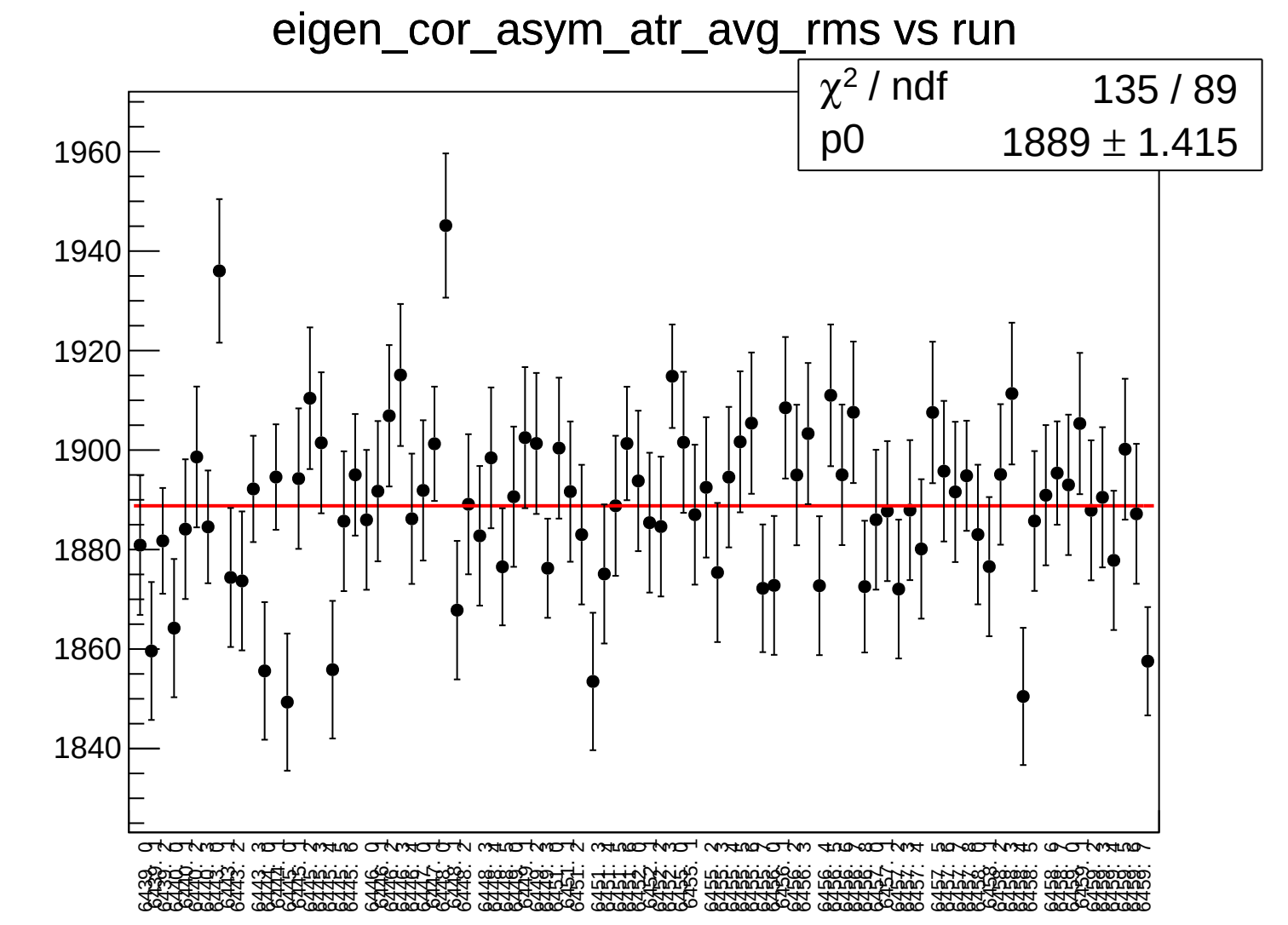

cor_asym_atr_avg_rms vs run
χ² / ndf 135 / 89
p0 1889 ± 1.415
1960
1940
1920
1900
1880
1860
1840

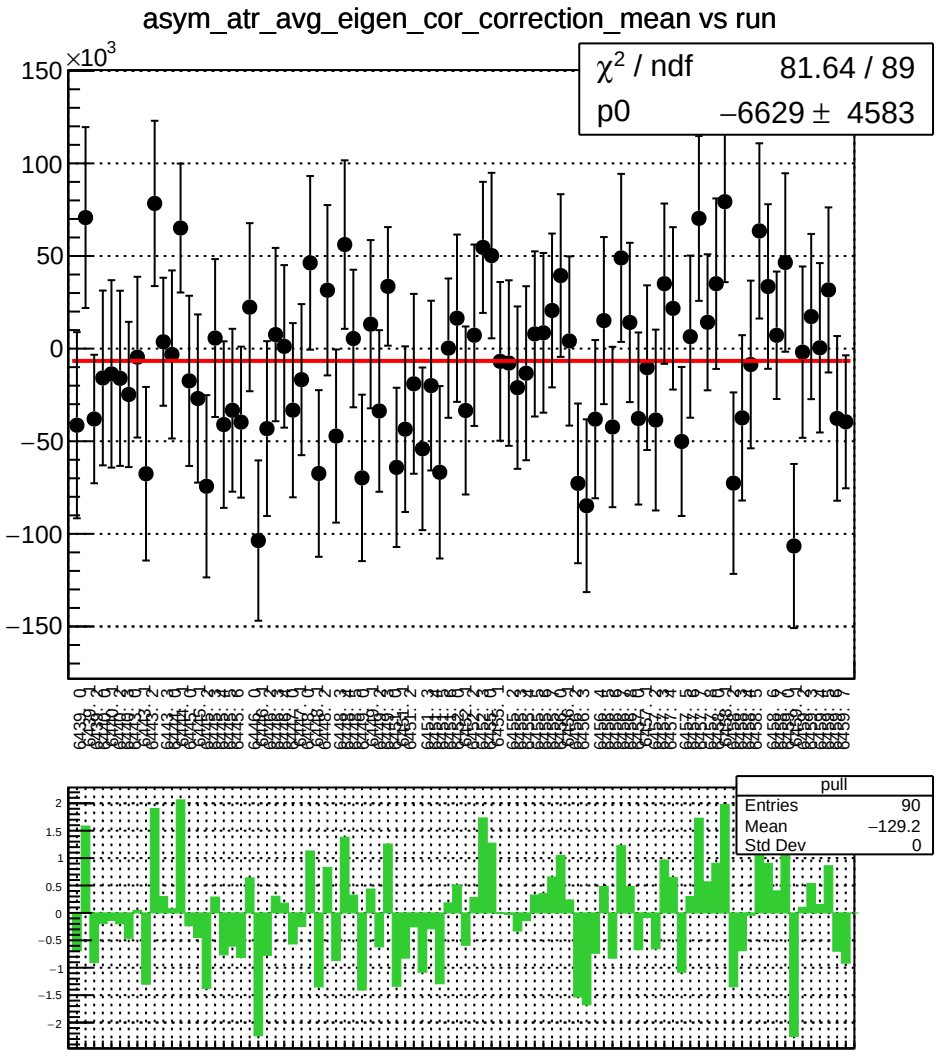

asym_atr_avg_cor_correction_mean vs run
χ² / ndf 81.64 / 89
p0 −6629 ± 4583
×10³
150
100
50
0
−50
−100
−150
pull
Entries 90
Mean −129.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

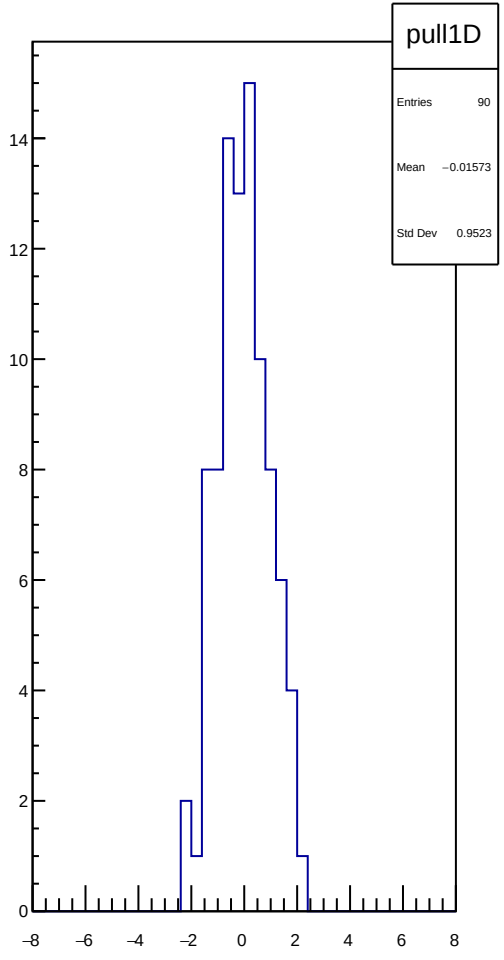

pull1D
Entries 90
Mean −0.01573
Std Dev 0.9523
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

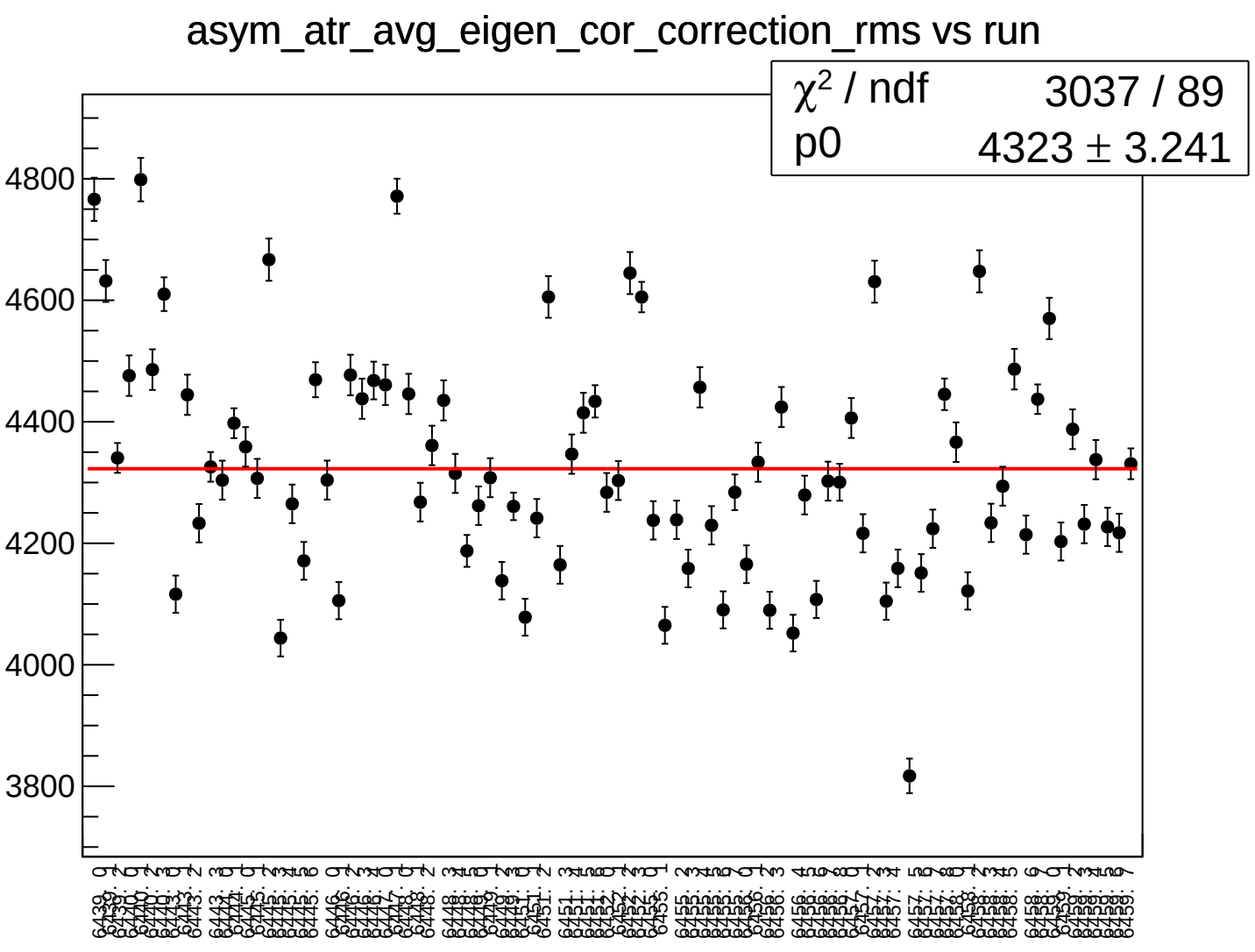

asym_atr_avg_cor_correction_rms vs run
χ² / ndf 3037 / 89
p0 4323 ± 3.241
4800
4600
4400
4200
4000
3800

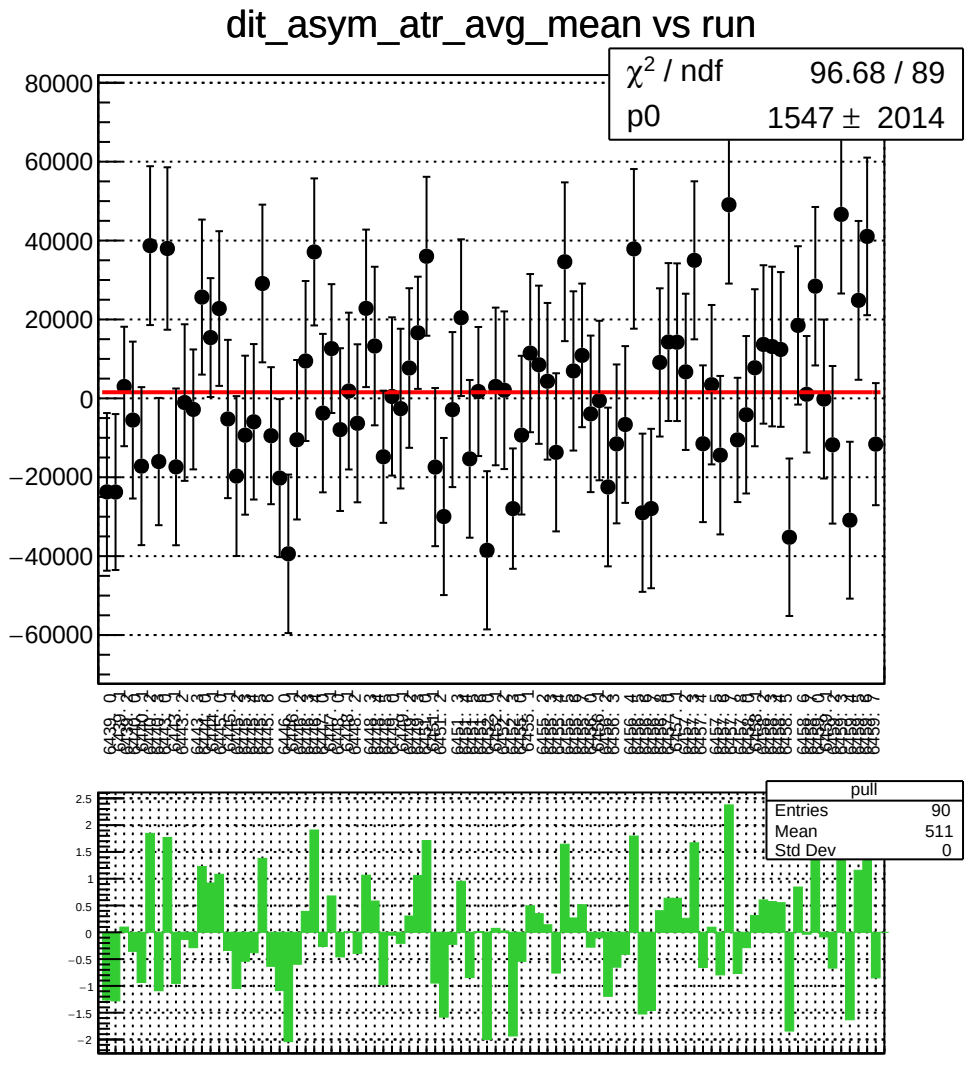

eigen_cor_asym_atr_avg_mean vs run
χ² / ndf 98.89 / 89
p0 1721 ± 2001
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 386.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 90
Mean 0.01002
Std Dev 1.048
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

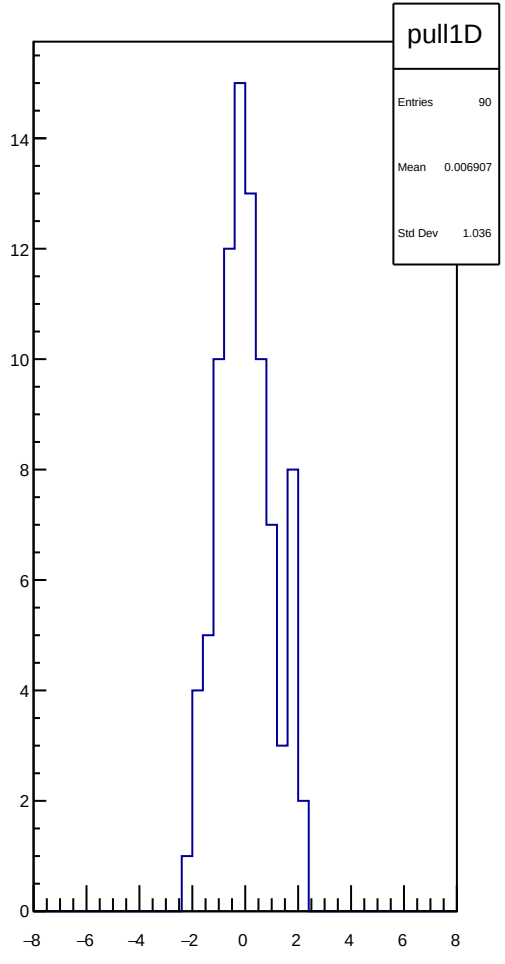

eigen_cor_asym_atr_avg_rms vs run
χ² / ndf 135 / 89
p0 1889 ± 1.415
1960
1940
1920
1900
1880
1860
1840

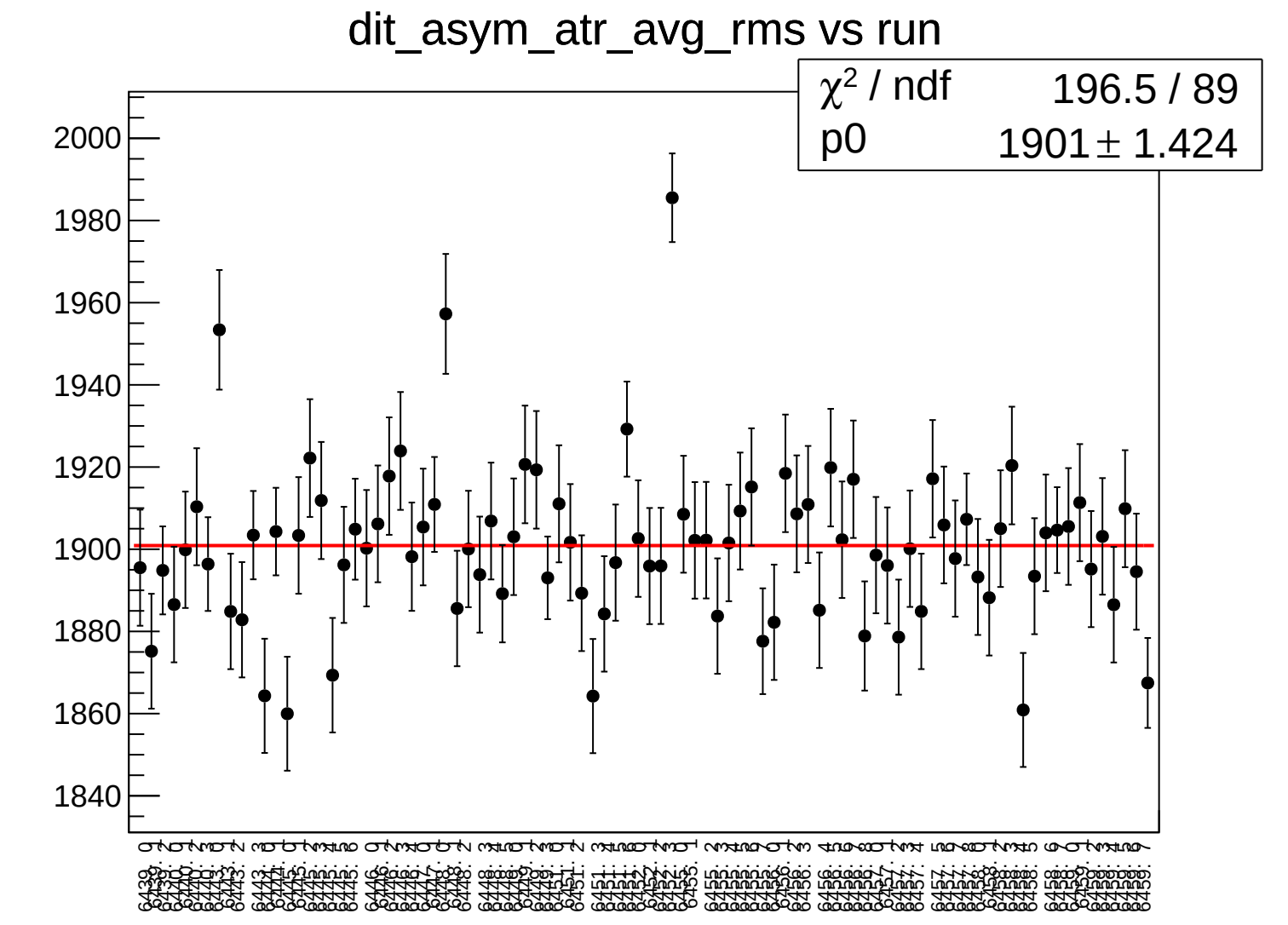

asym_atr_avg_eigen_cor_correction_mean vs run
χ² / ndf 81.64 / 89
p0 −6629 ± 4583
×10³
150
100
50
0
−50
−100
−150
pull
Entries 90
Mean −129.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

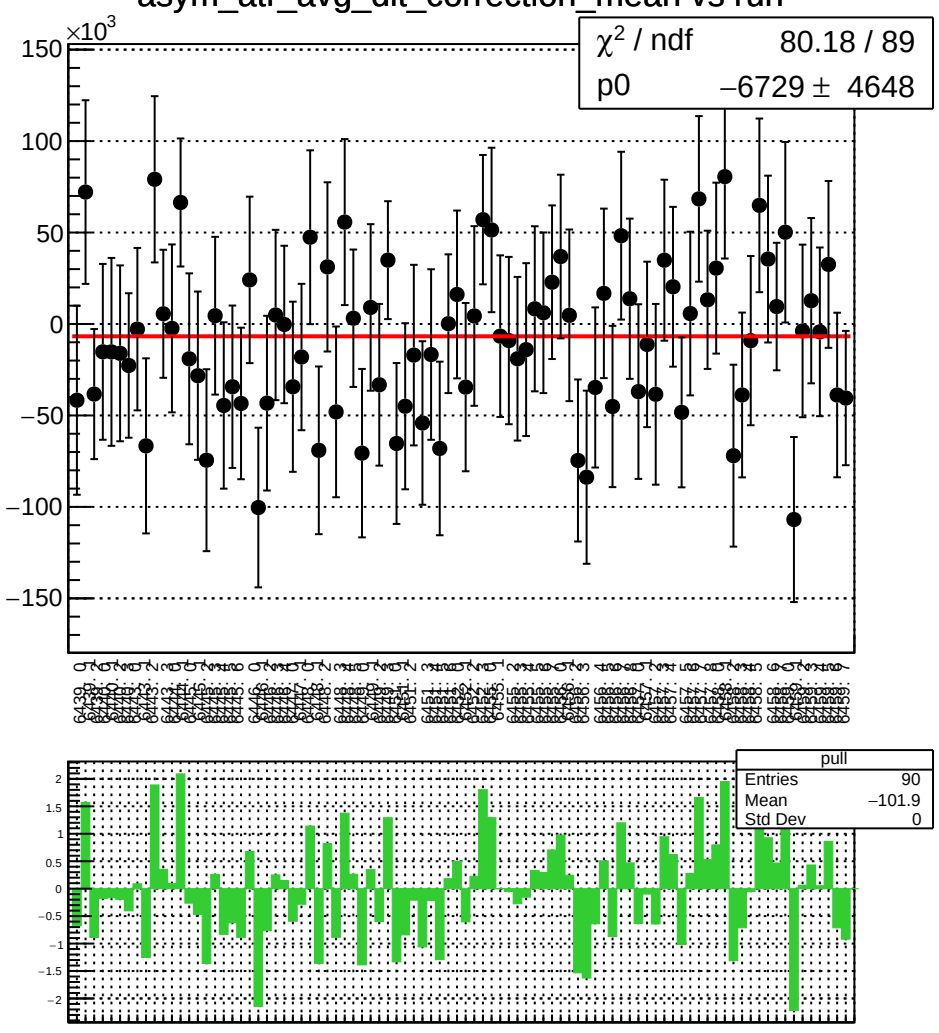

pull1D
Entries 90
Mean −0.01573
Std Dev 0.9523
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

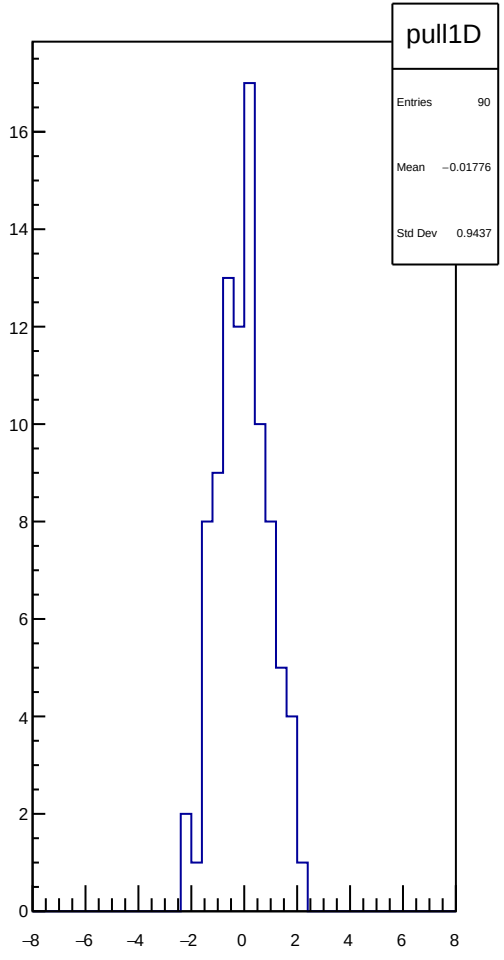

asym_atr_avg_eigen_cor_correction_rms vs run
χ² / ndf 3037 / 89
p0 4323 ± 3.241
4800
4600
4400
4200
4000
3800

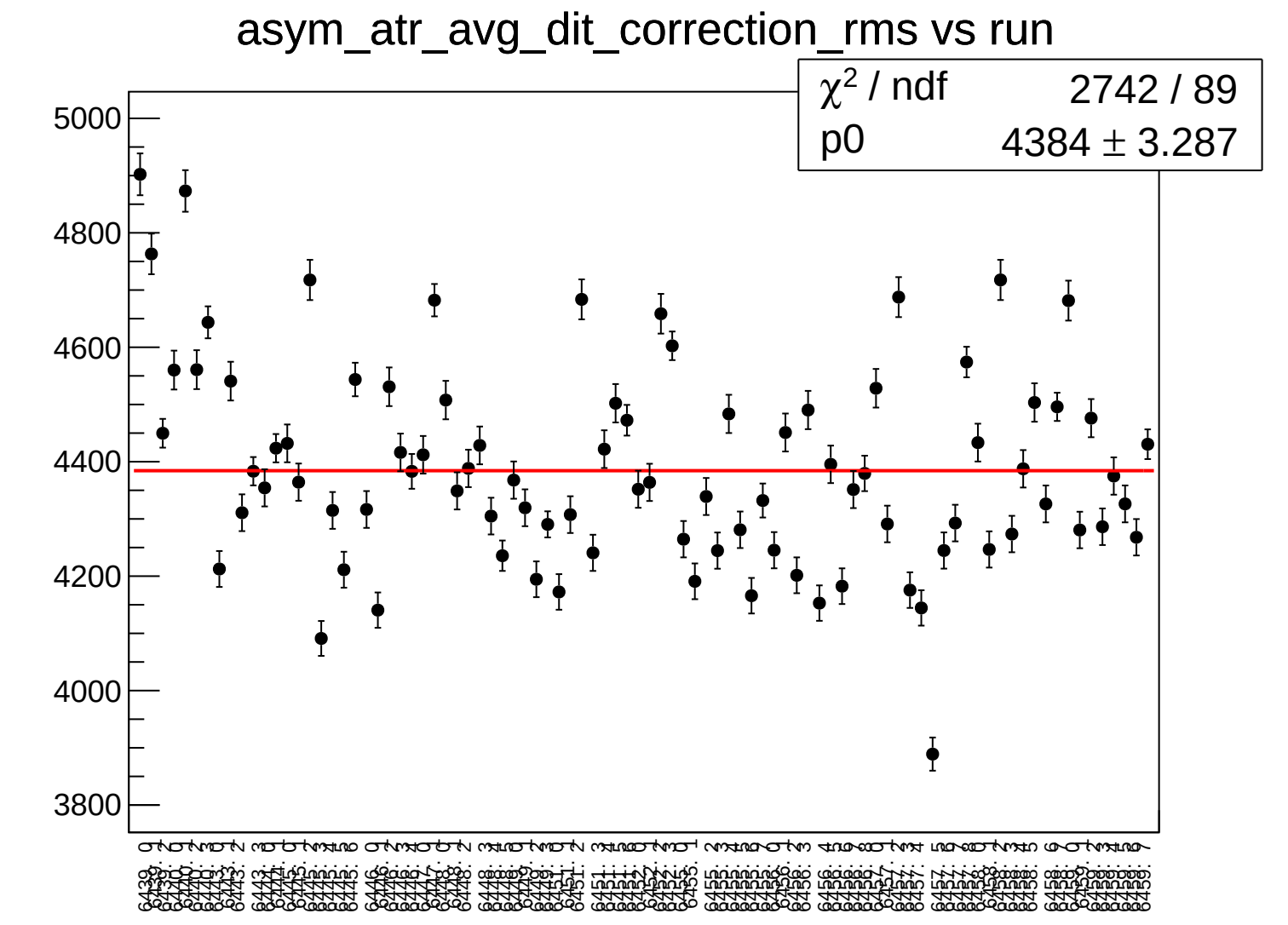

dit_asym_atr_avg_mean vs run
χ² / ndf 96.68 / 89
p0 1547 ± 2014
pull
Entries 90
Mean 511
Std Dev 0

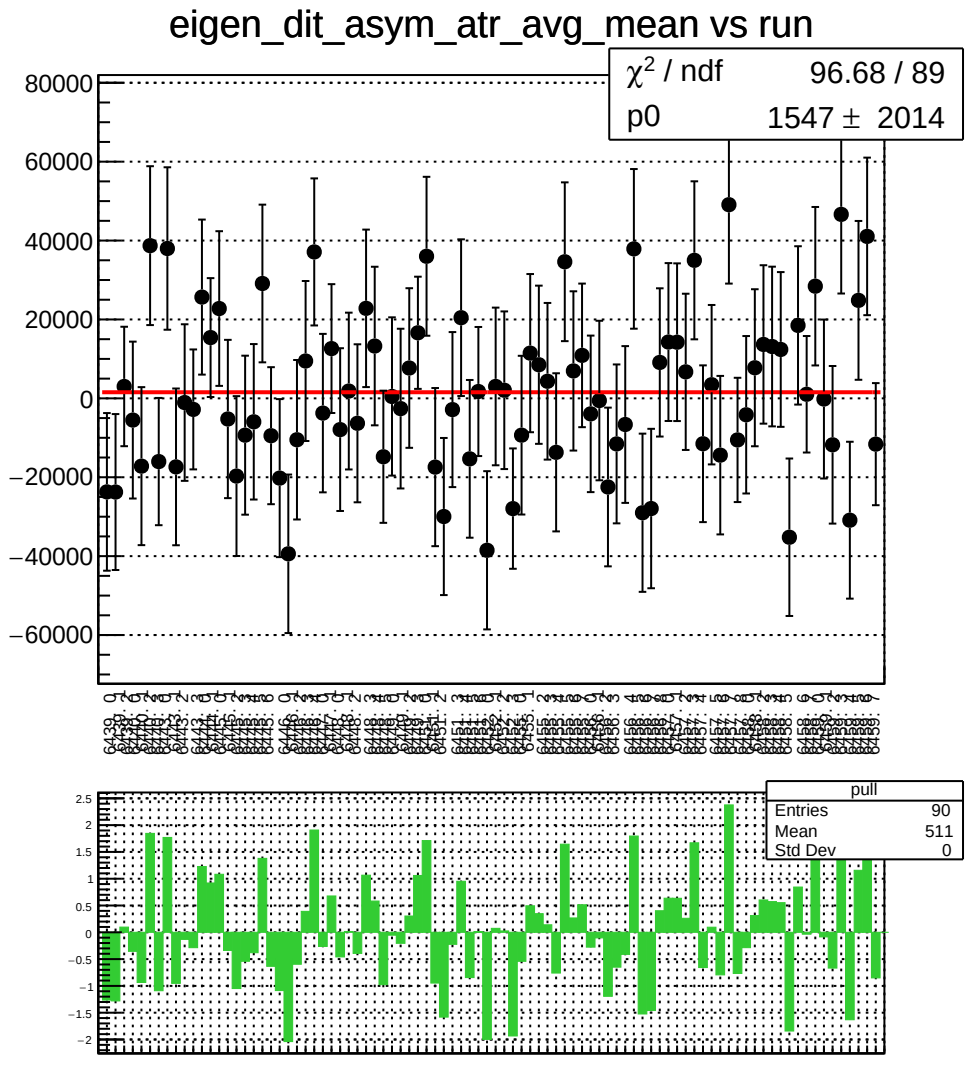

pull1D
Entries 90
Mean 0.006907
Std Dev 1.036

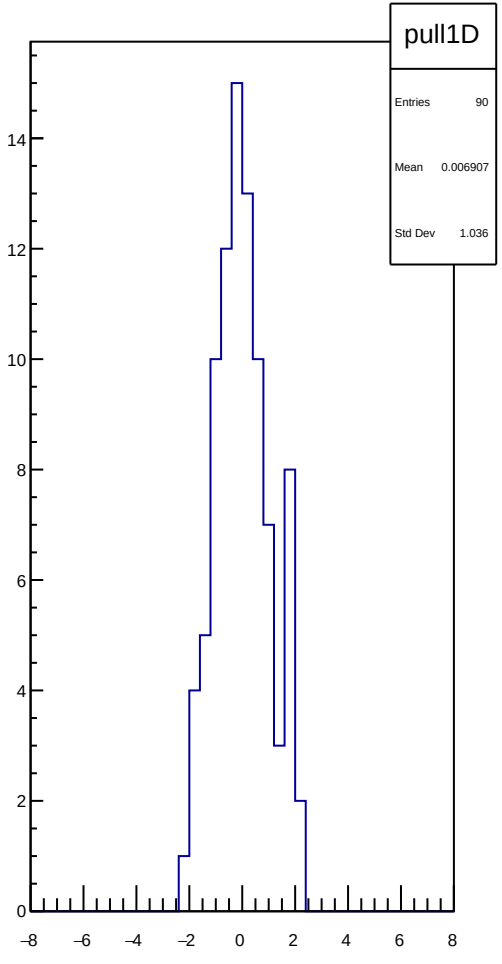

dit_asym_atr_avg_rms vs run
χ² / ndf 196.5 / 89
p0 1901 ± 1.424
2000
1980
1960
1940
1920
1900
1880
1860
1840

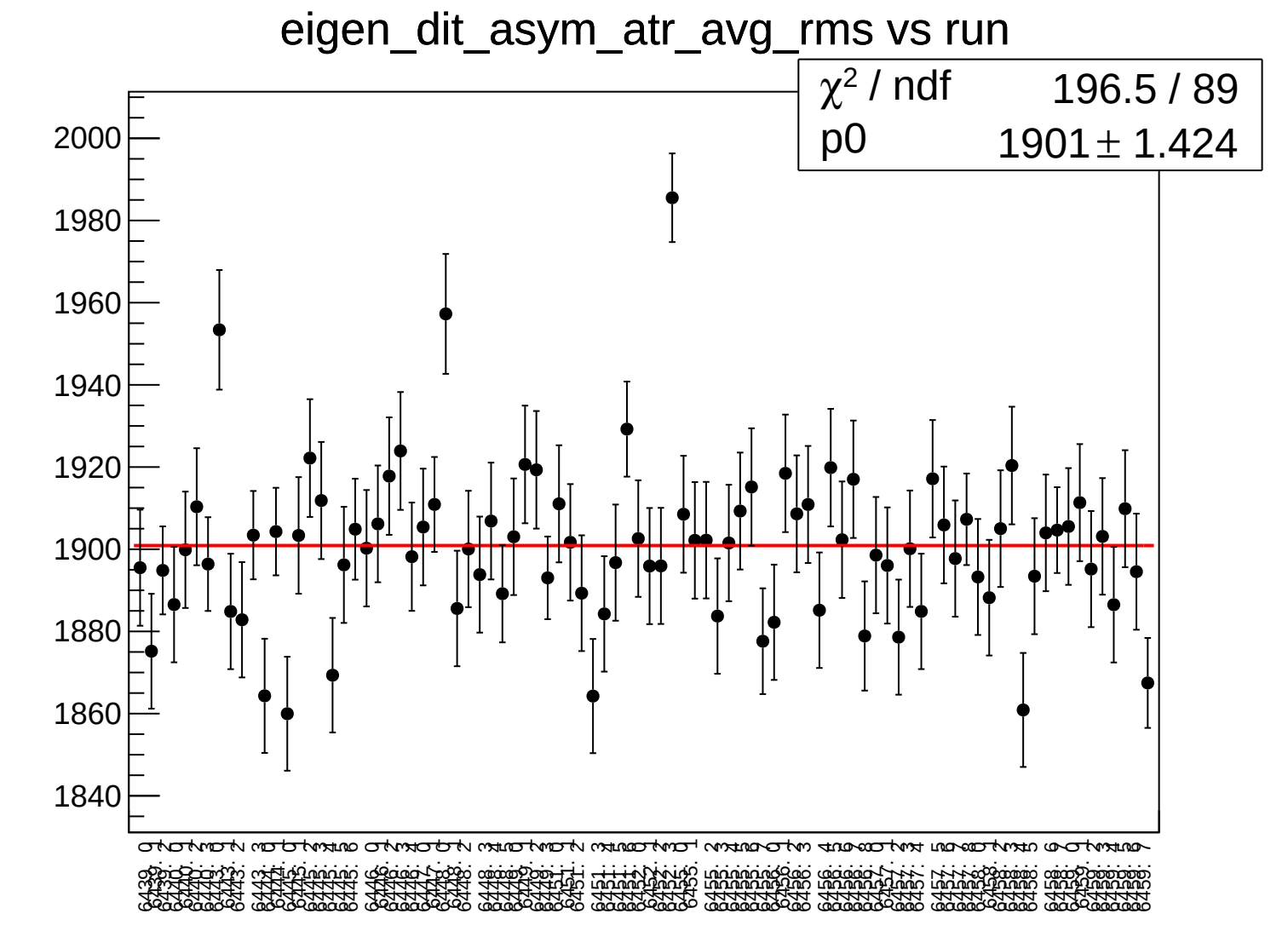

asym_atr_avg_dit_correction_mean vs run
χ² / ndf 80.18 / 89
p0 −6729 ± 4648
×10³
150
100
50
0
−50
−100
−150
pull
Entries 90
Mean −101.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

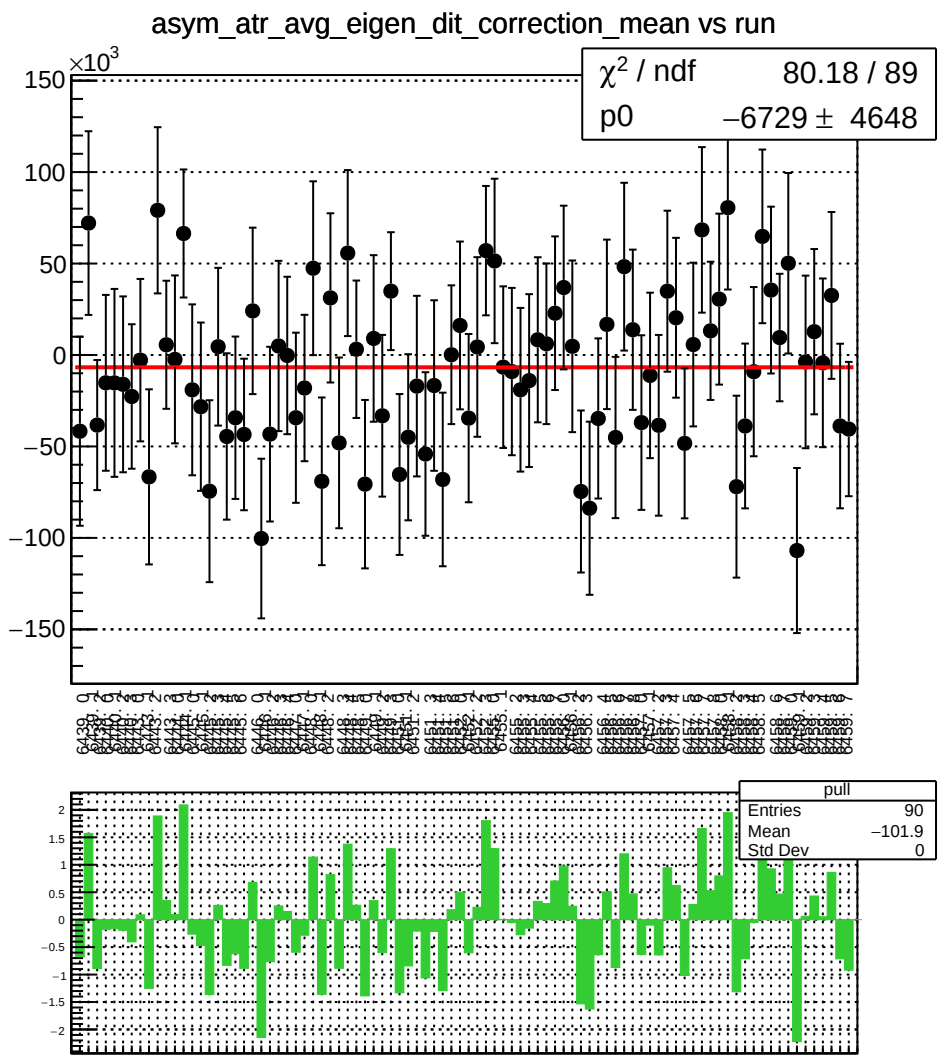

pull1D
Entries 90
Mean −0.01776
Std Dev 0.9437
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

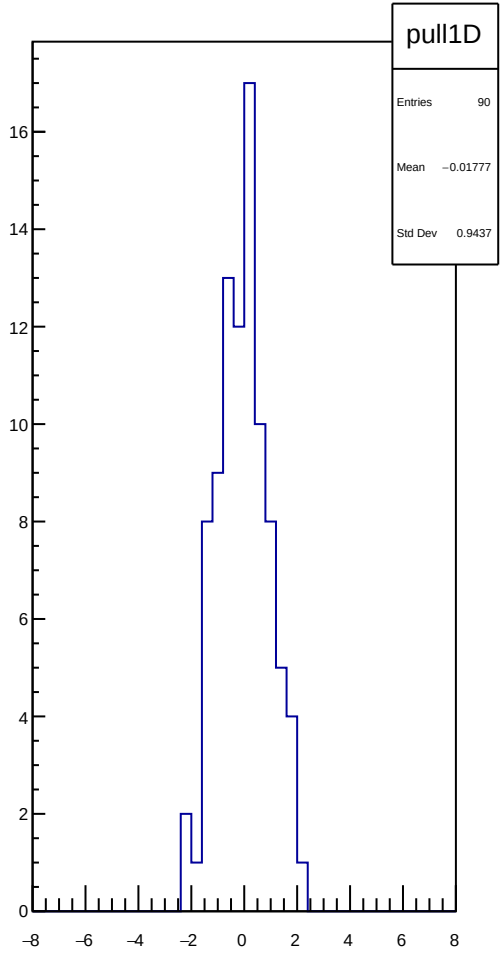

asym_atr_avg_dit_correction_rms vs run
χ² / ndf 2742 / 89
p0 4384 ± 3.287
5000
4800
4600
4400
4200
4000
3800

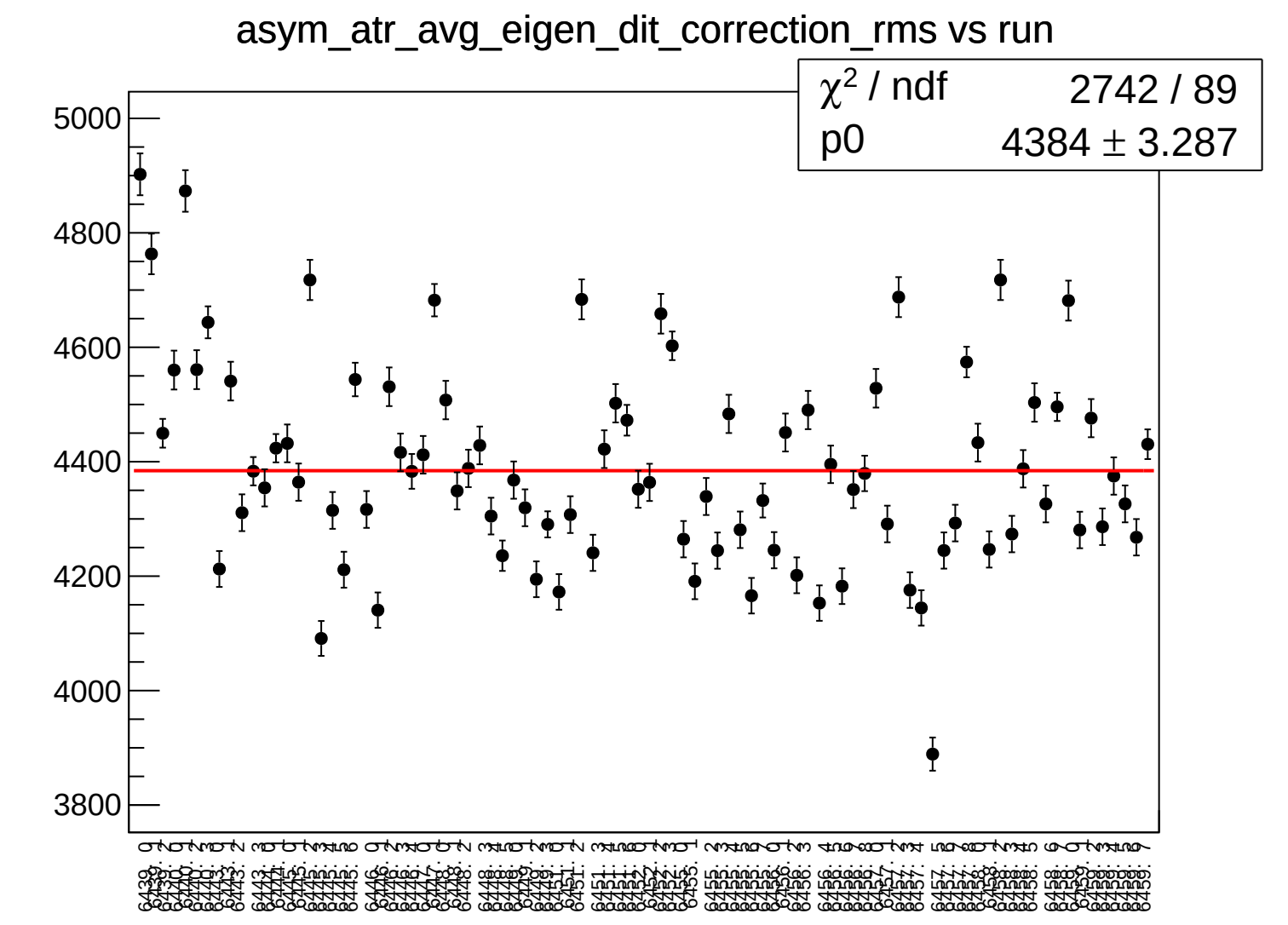

eigen_dit_asym_atr_avg_mean vs run
χ² / ndf 96.68 / 89
p0 1547 ± 2014
pull
Entries 90
Mean 511
Std Dev 0

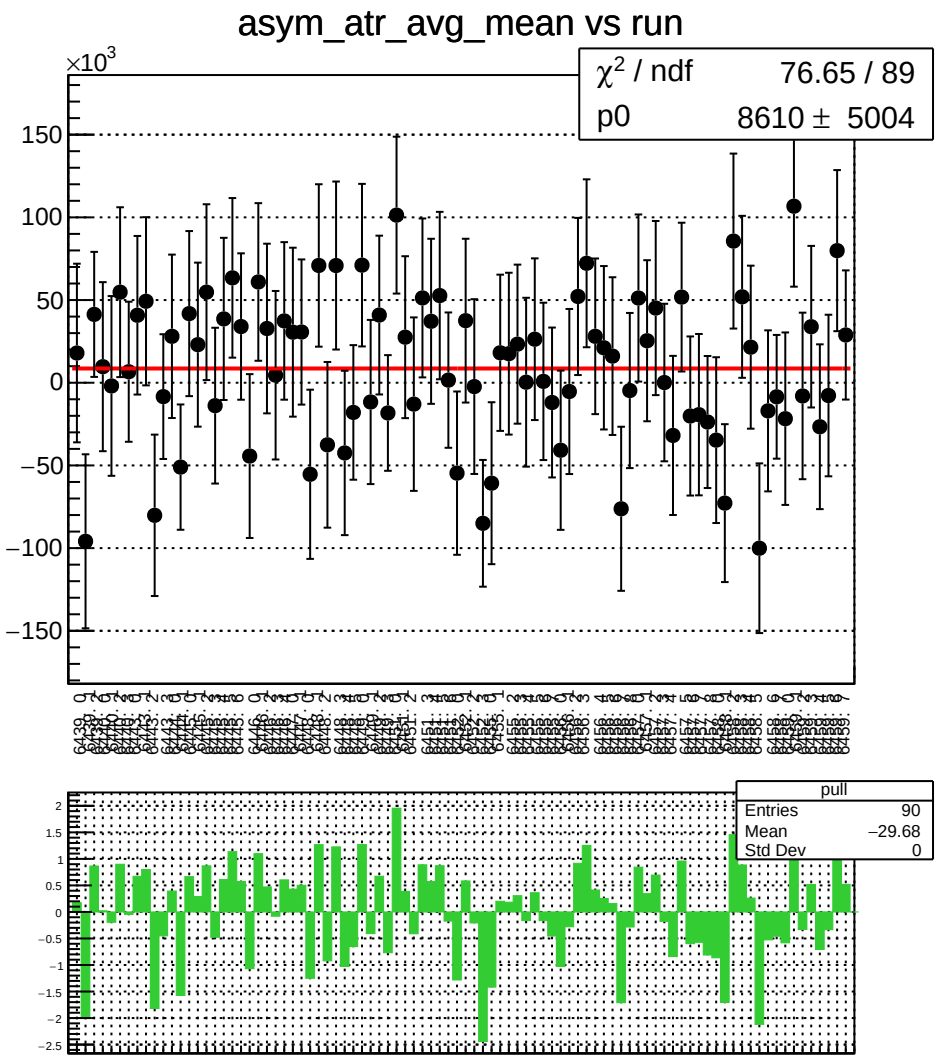

pull1D
Entries 90
Mean 0.006907
Std Dev 1.036

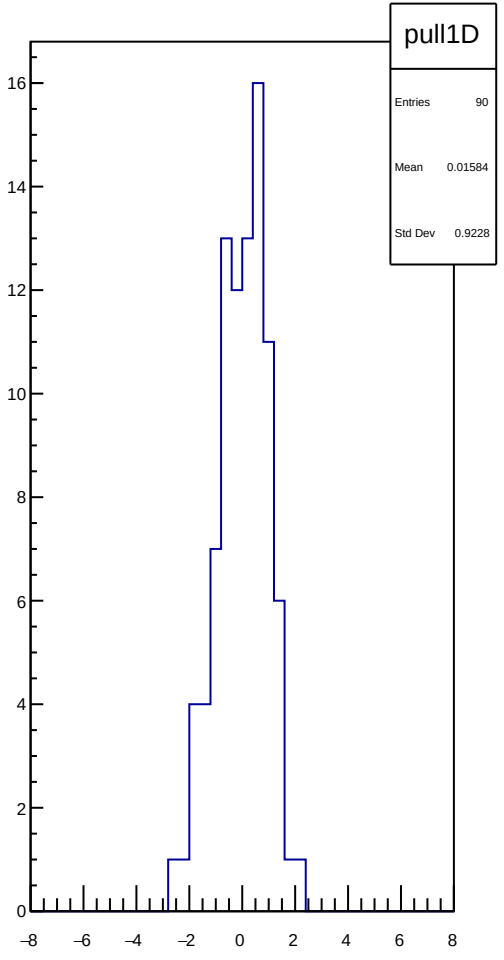

eigen_dit_asym_atr_avg_rms vs run
χ² / ndf 196.5 / 89
p0 1901 ± 1.424
2000
1980
1960
1940
1920
1900
1880
1860
1840

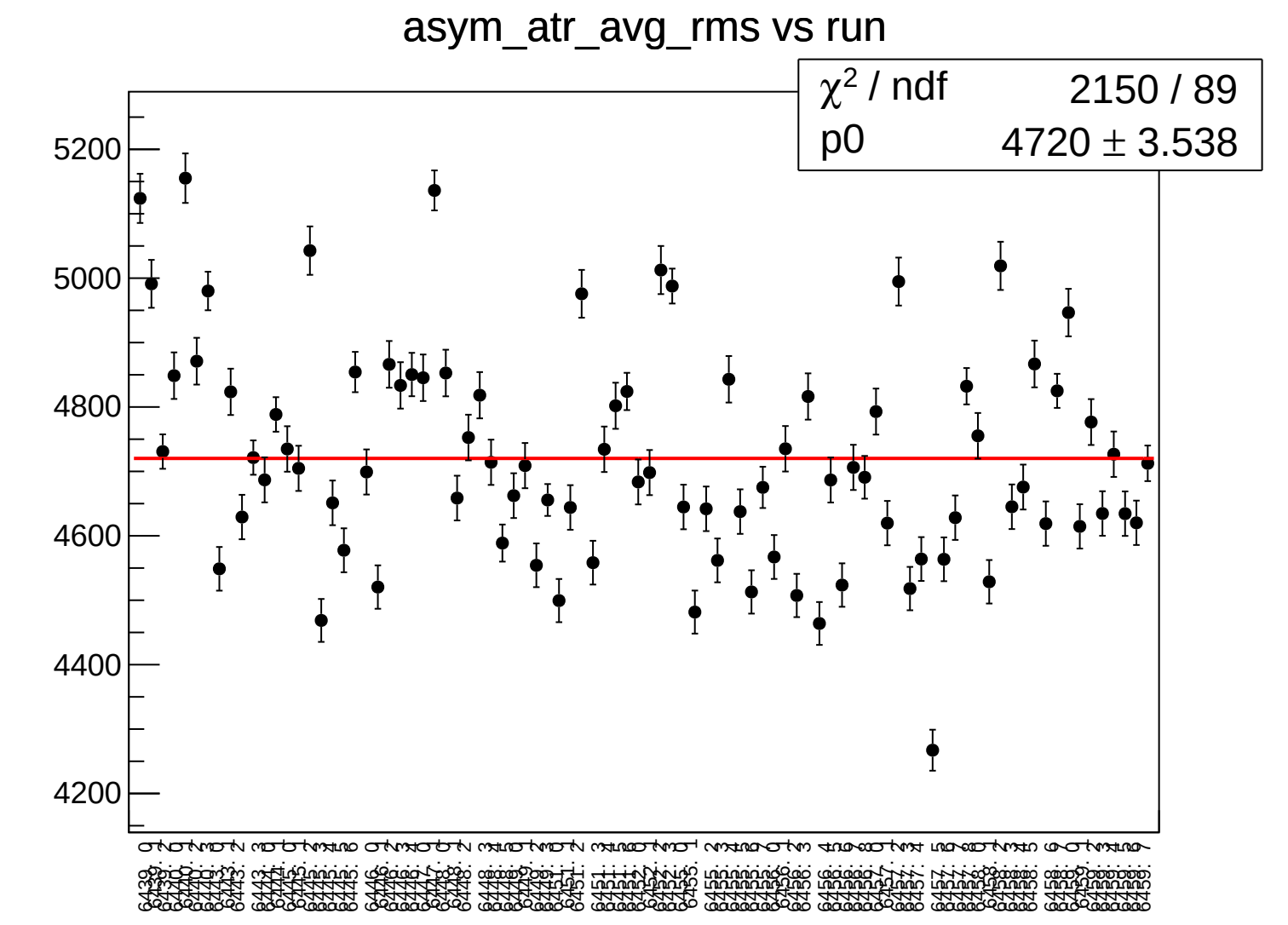

asym_atr_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 80.18 / 89
p0 −6729 ± 4648
150
100
50
0
−50
−100
−150
pull
Entries 90
Mean −101.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

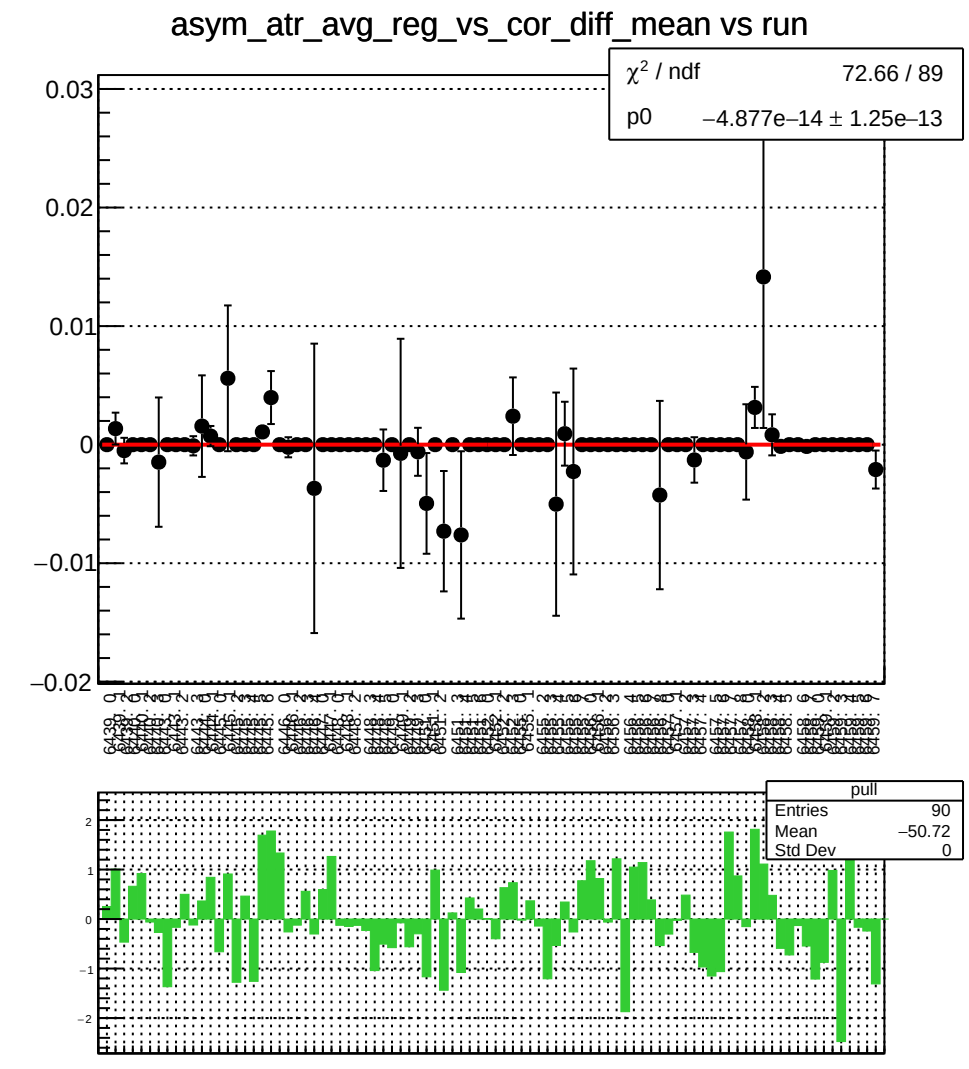

pull1D
Entries 90
Mean −0.01777
Std Dev 0.9437
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

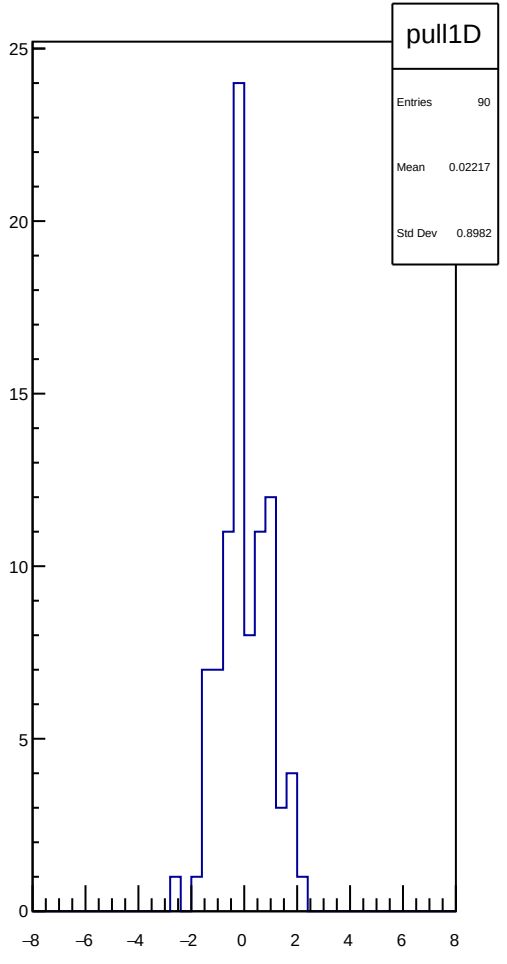

asym_atr_avg_eigen_dit_correction_rms vs run
χ² / ndf 2742 / 89
p0 4384 ± 3.287
5000
4800
4600
4400
4200
4000
3800

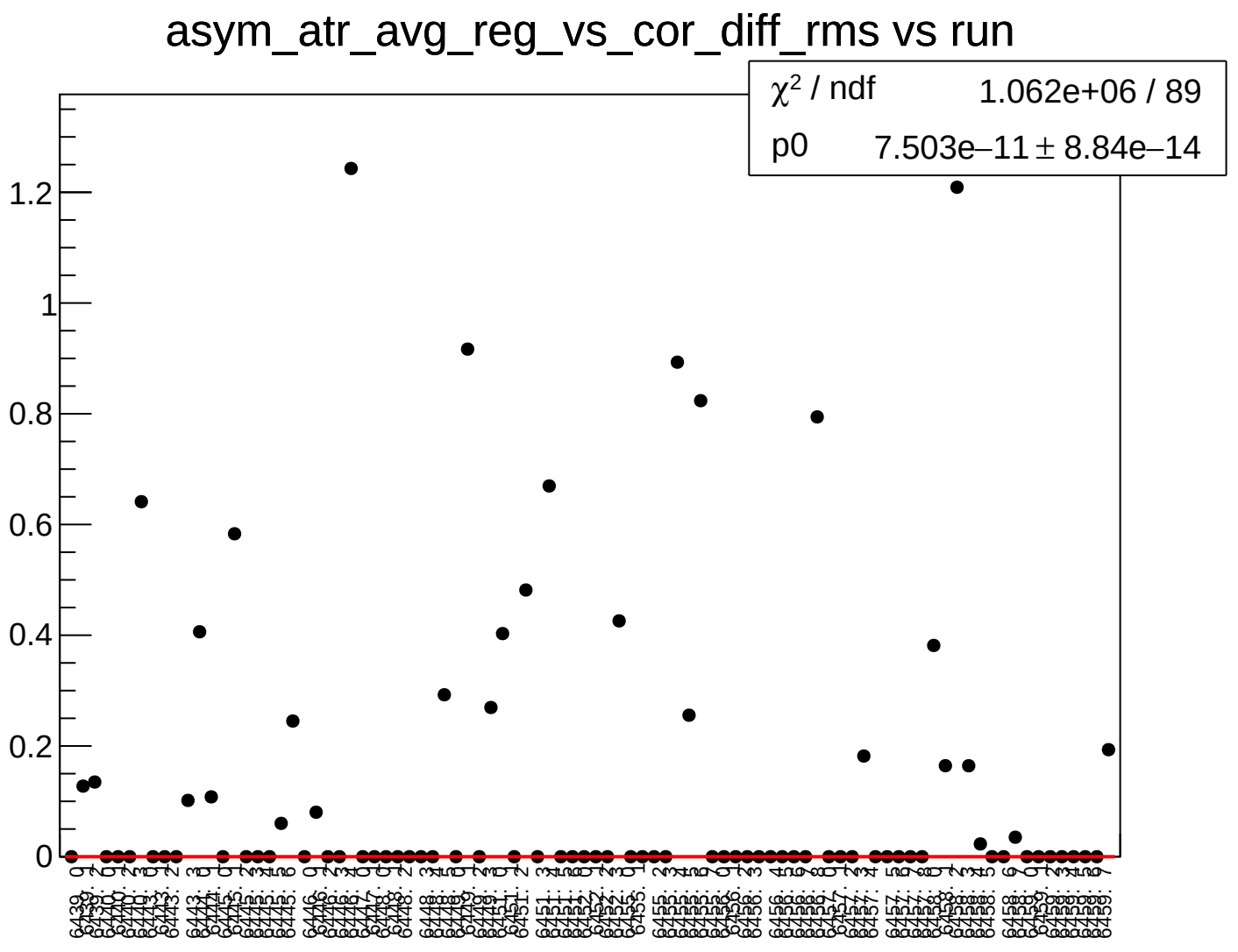

asym_atr_avg_mean vs run
×10^3
χ² / ndf 76.65 / 89
p0 8610 ± 5004
150
100
50
0
−50
−100
−150
pull
Entries 90
Mean −29.68
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

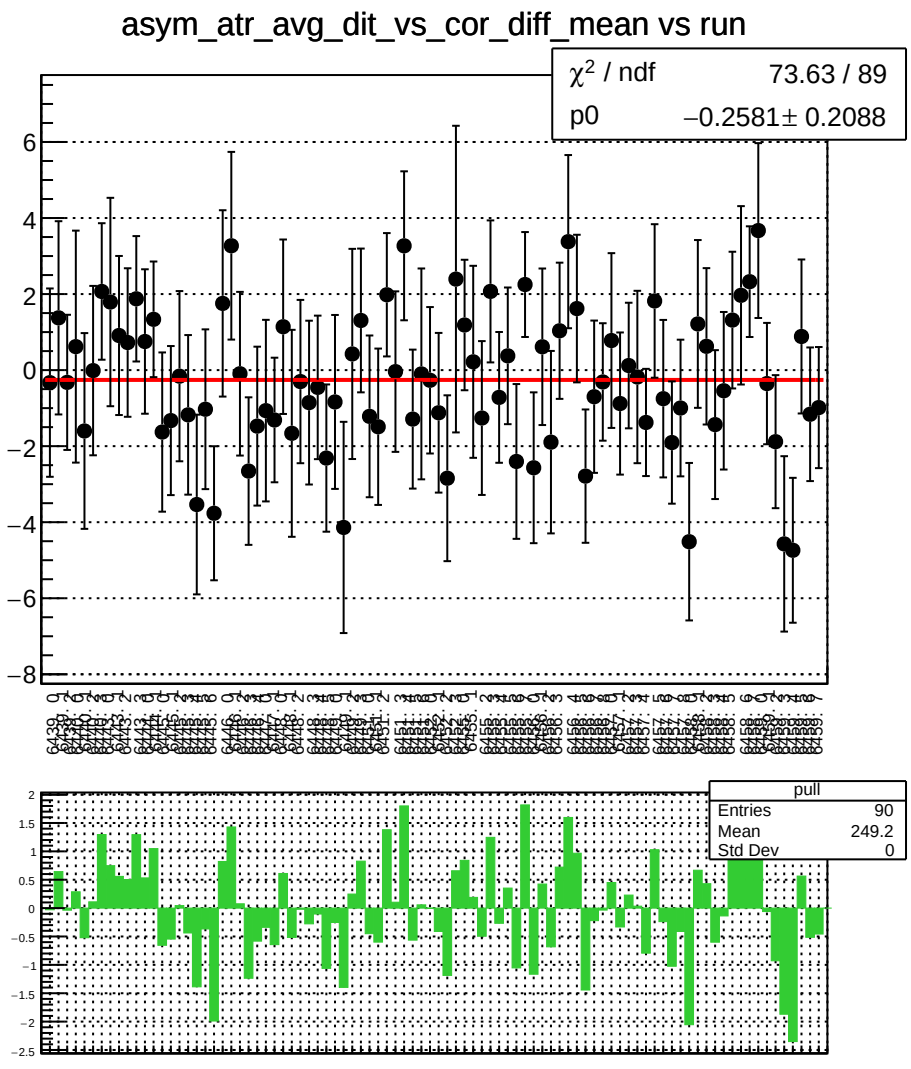

pull1D
Entries 90
Mean 0.01584
Std Dev 0.9228
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

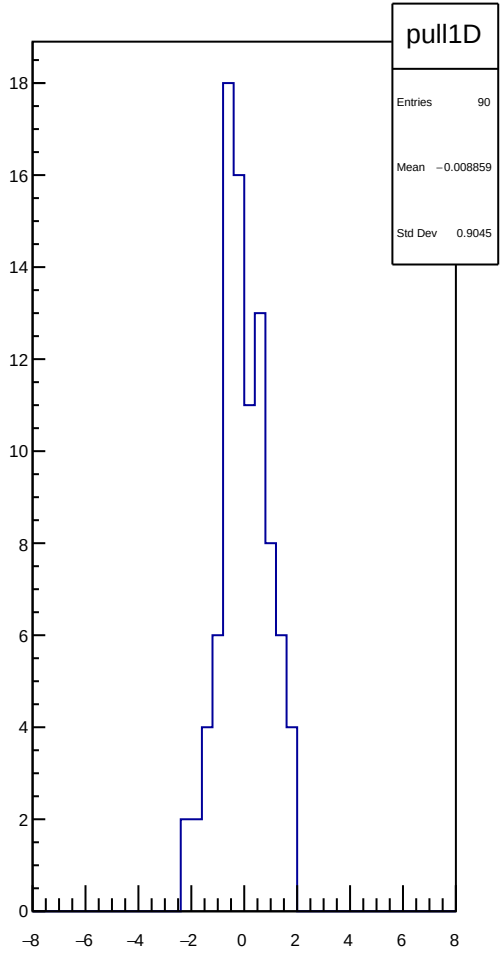

asym_atr_avg_rms vs run
χ^2 / ndf 2150 / 89
p0 4720 ± 3.538
5200
5000
4800
4600
4400
4200

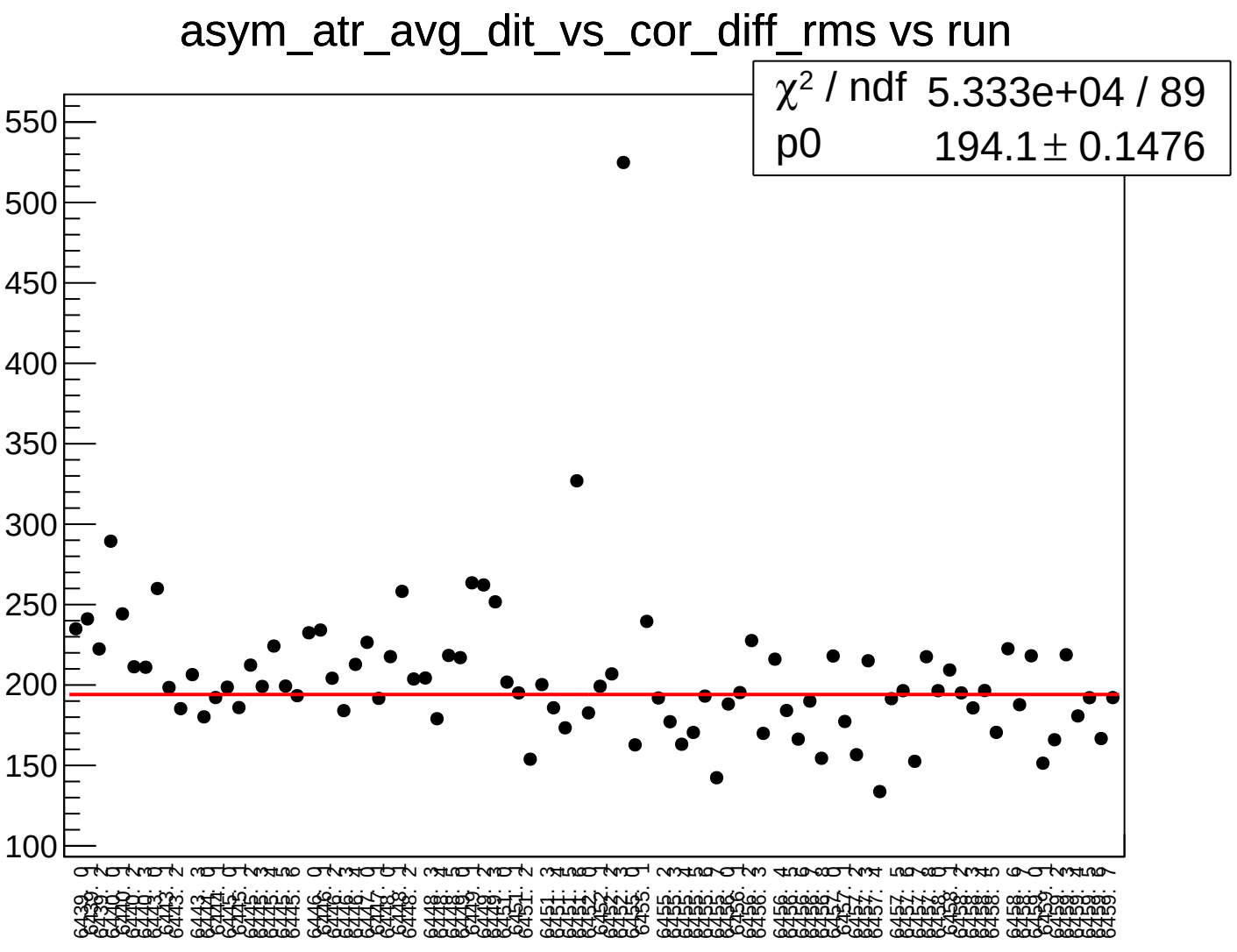

asym_atr_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 72.66 / 89
p0 −4.877e−14 ± 1.25e−13
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 90
Mean −50.72
Std Dev 0
2
1
0
−1
−2

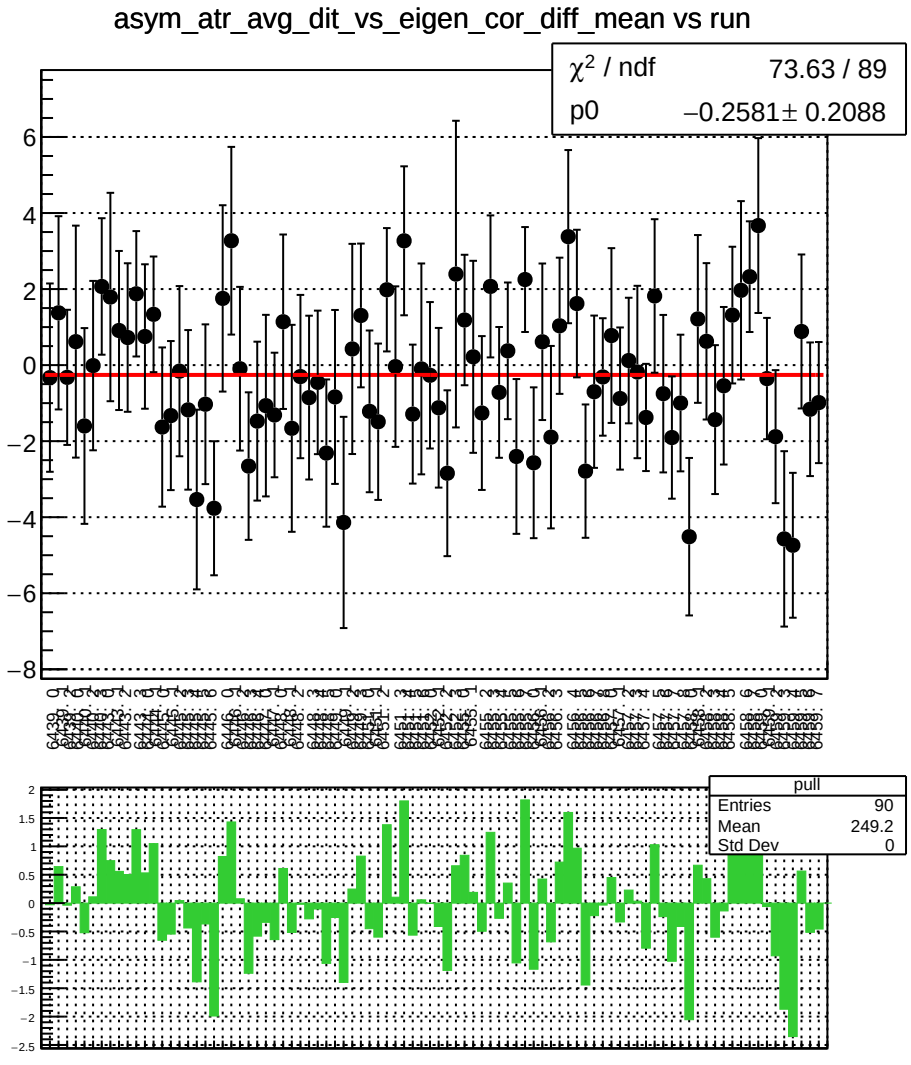

pull1D
Entries 90
Mean 0.02217
Std Dev 0.8982
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

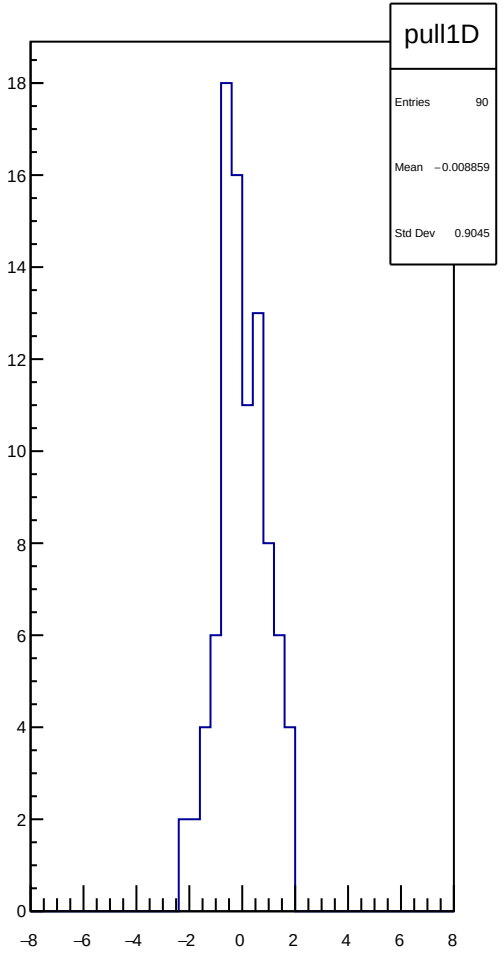

asym_atr_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.062e+06 / 89
p0 7.503e−11 ± 8.84e−14
1.2
1
0.8
0.6
0.4
0.2
0

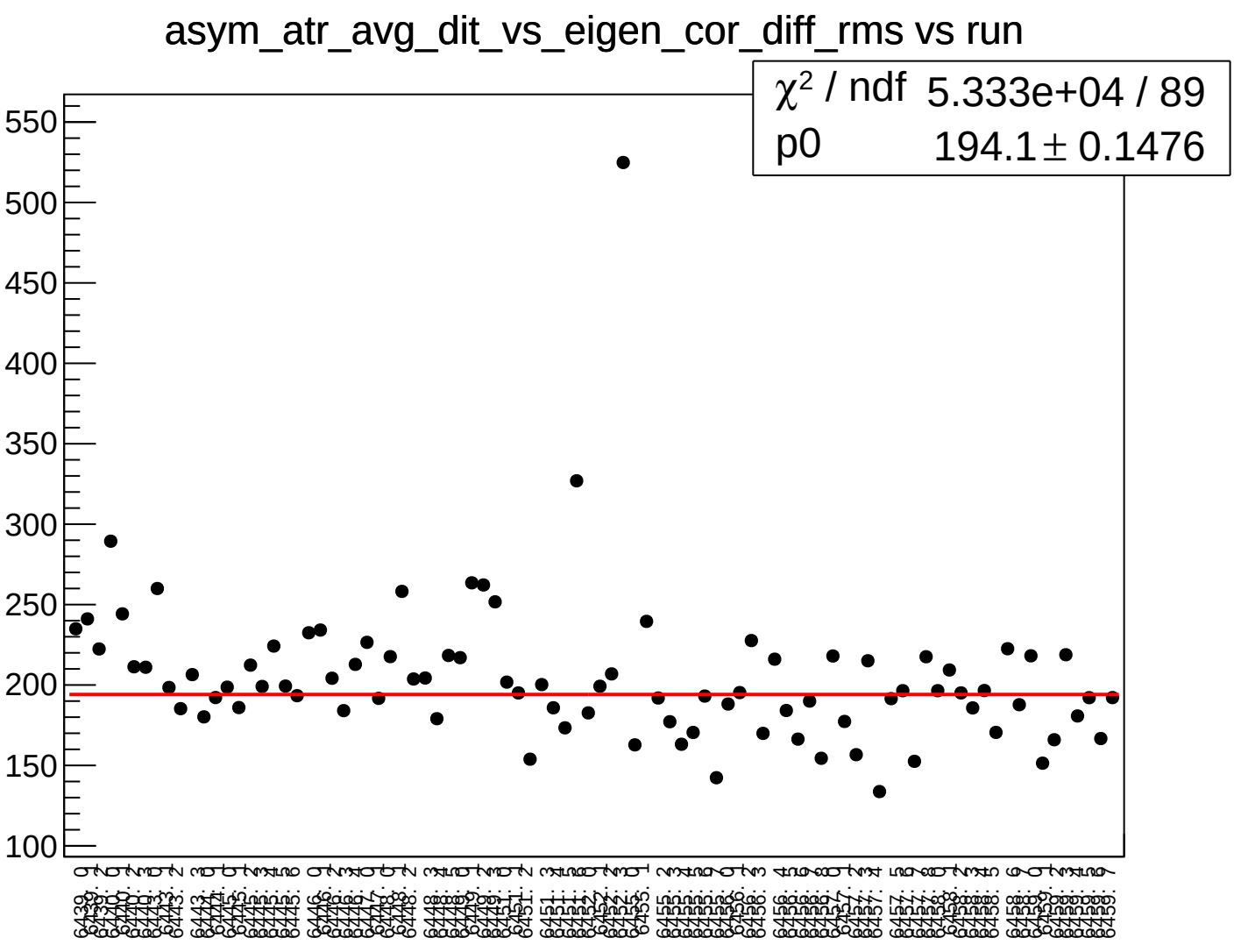

asym_atr_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 73.63 / 89
p0 −0.2581± 0.2088
pull
Entries 90
Mean 249.2
Std Dev 0

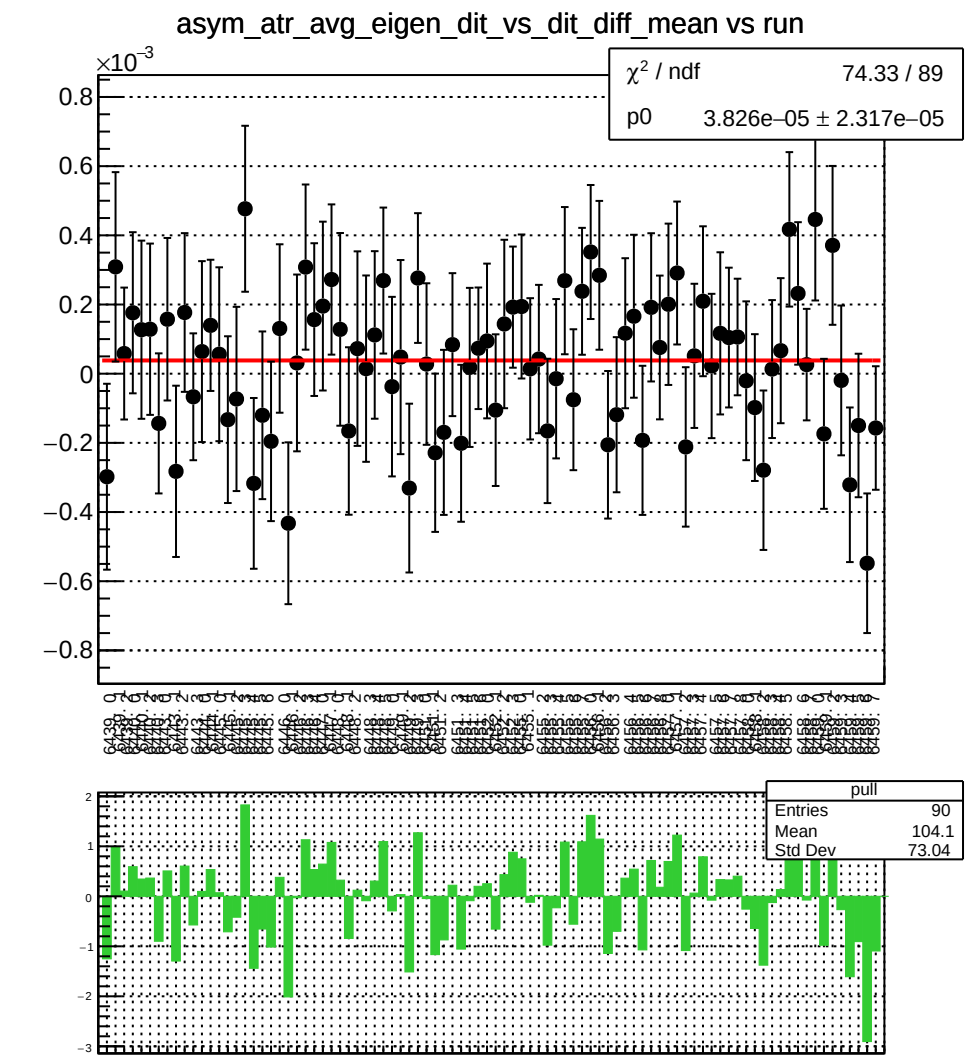

pull1D
Entries 90
Mean −0.008859
Std Dev 0.9045

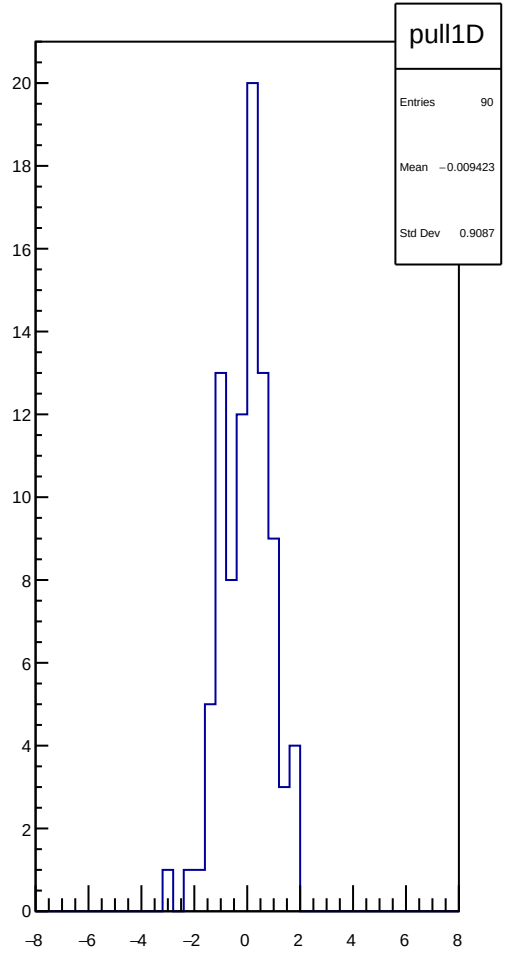

asym_atr_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.333e+04 / 89
p0 194.1 ± 0.1476
550
500
450
400
350
300
250
200
150
100

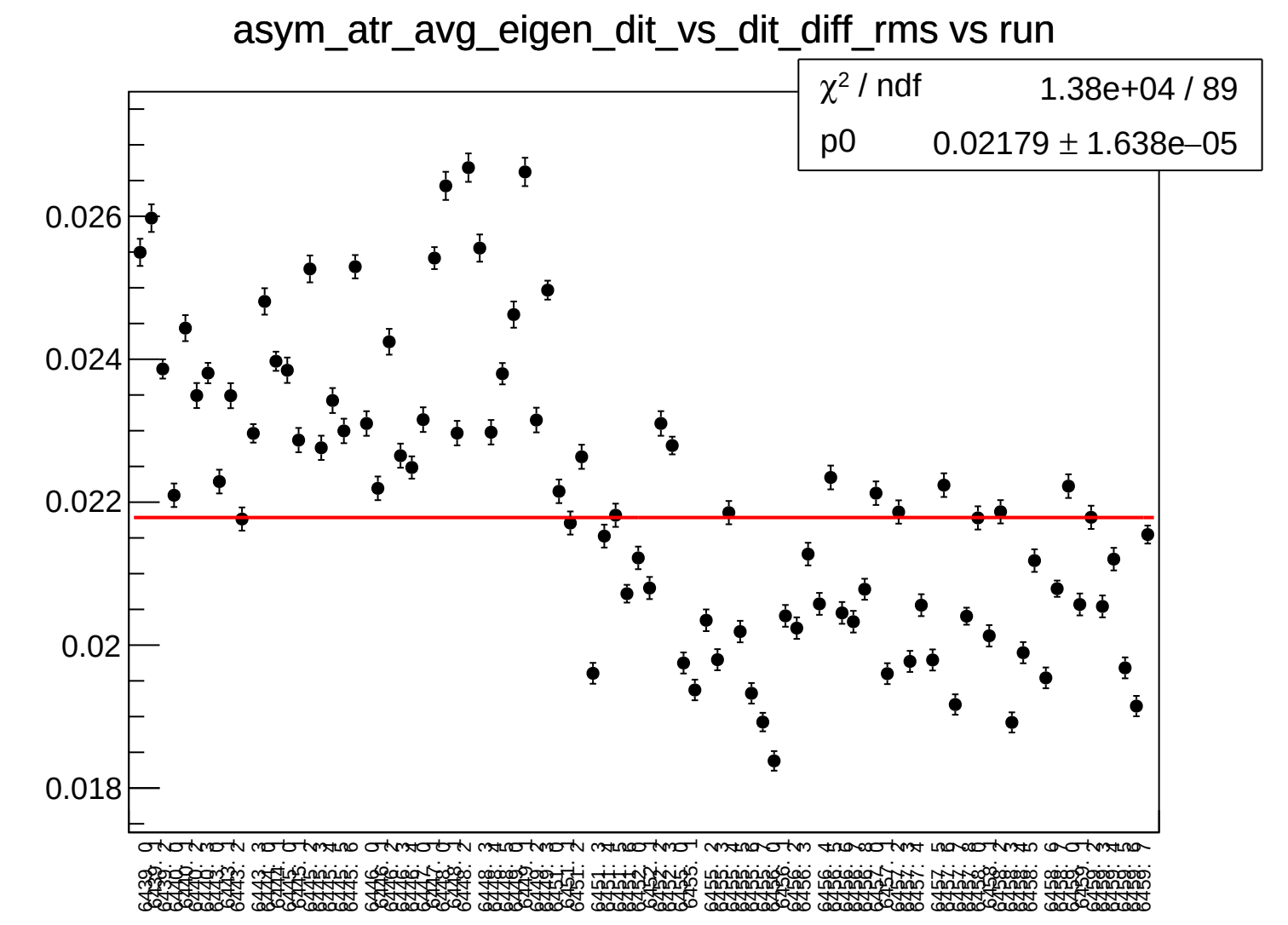

asym_atr_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.63 / 89
p0 −0.2581± 0.2088
pull
Entries 90
Mean 249.2
Std Dev 0

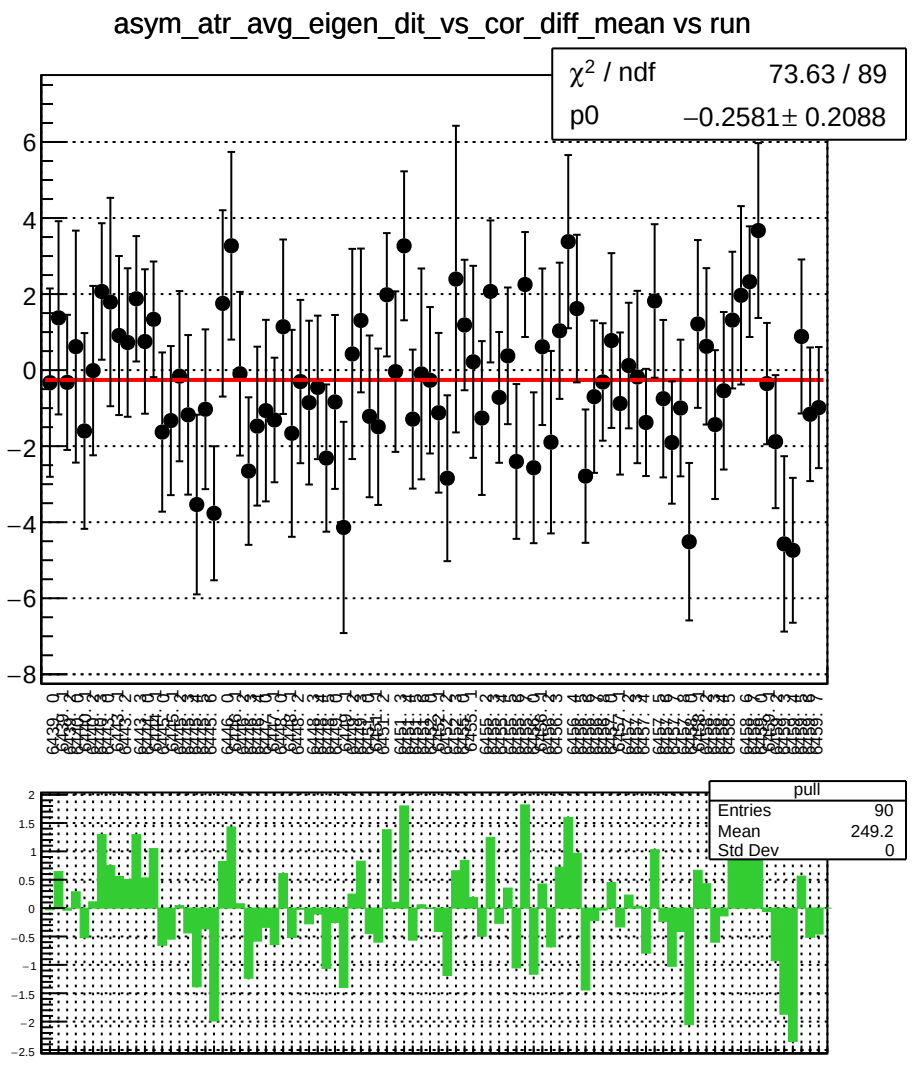

pull1D
Entries 90
Mean −0.008859
Std Dev 0.9045

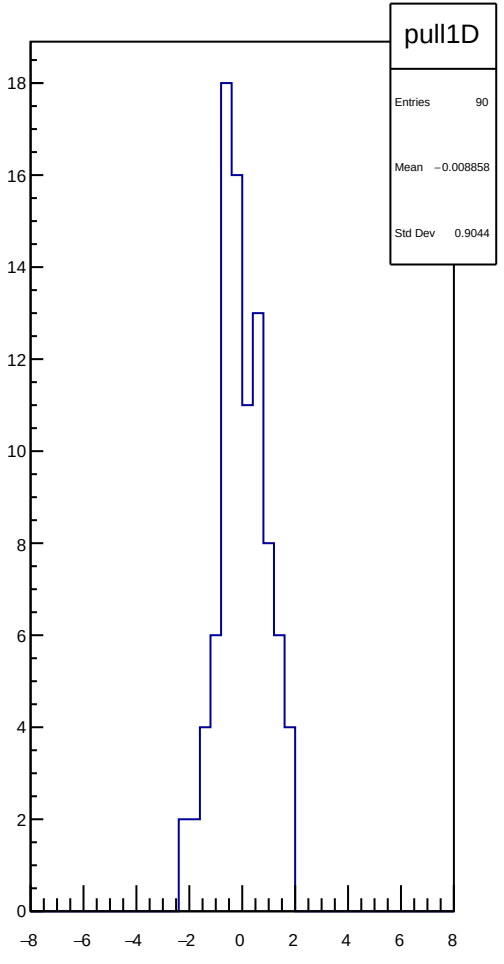

asym_atr_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.333e+04 / 89
p0 194.1 ± 0.1476
550
500
450
400
350
300
250
200
150
100

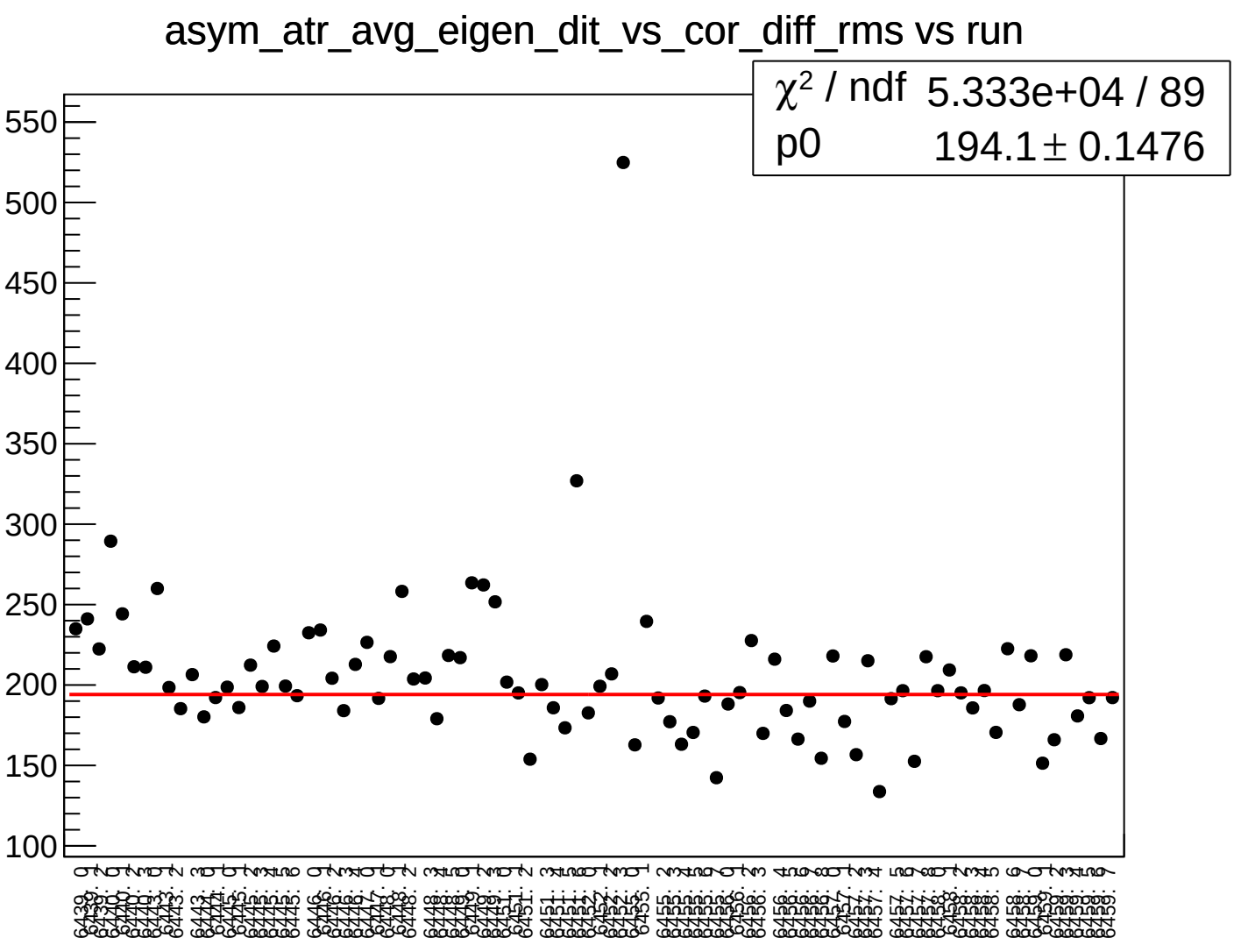

asym_atr_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 74.33 / 89
p0 3.826e−05 ± 2.317e−05
pull
Entries 90
Mean 104.1
Std Dev 73.04

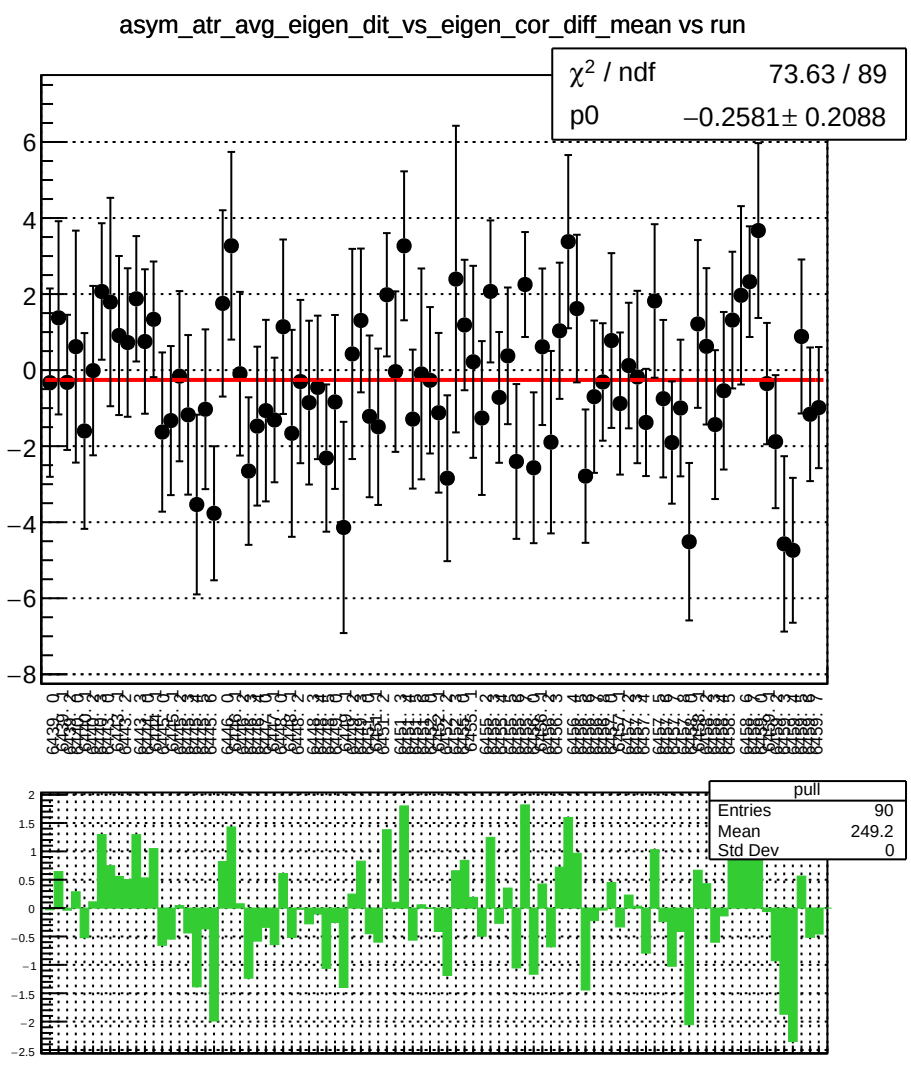

pull1D
Entries 90
Mean −0.009423
Std Dev 0.9087

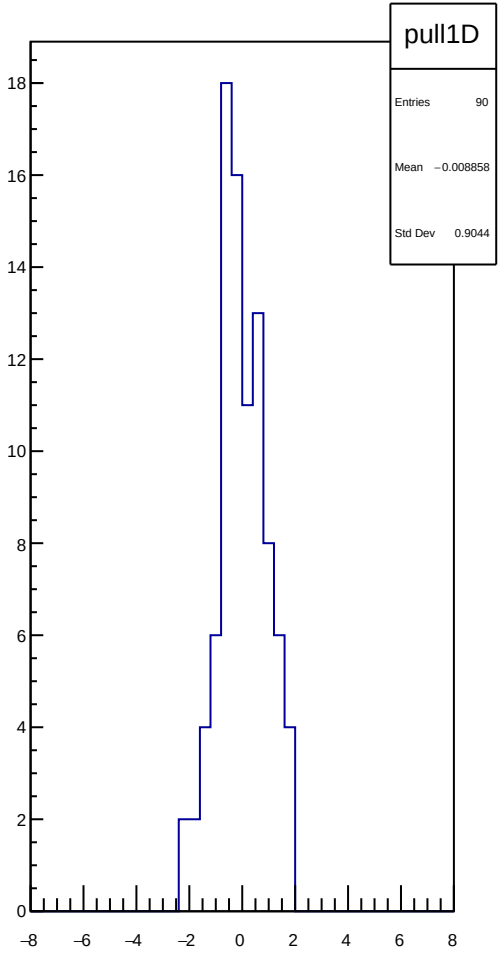

asym_atr_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.38e+04 / 89
p0 0.02179 ± 1.638e–05
0.026
0.024
0.022
0.02
0.018

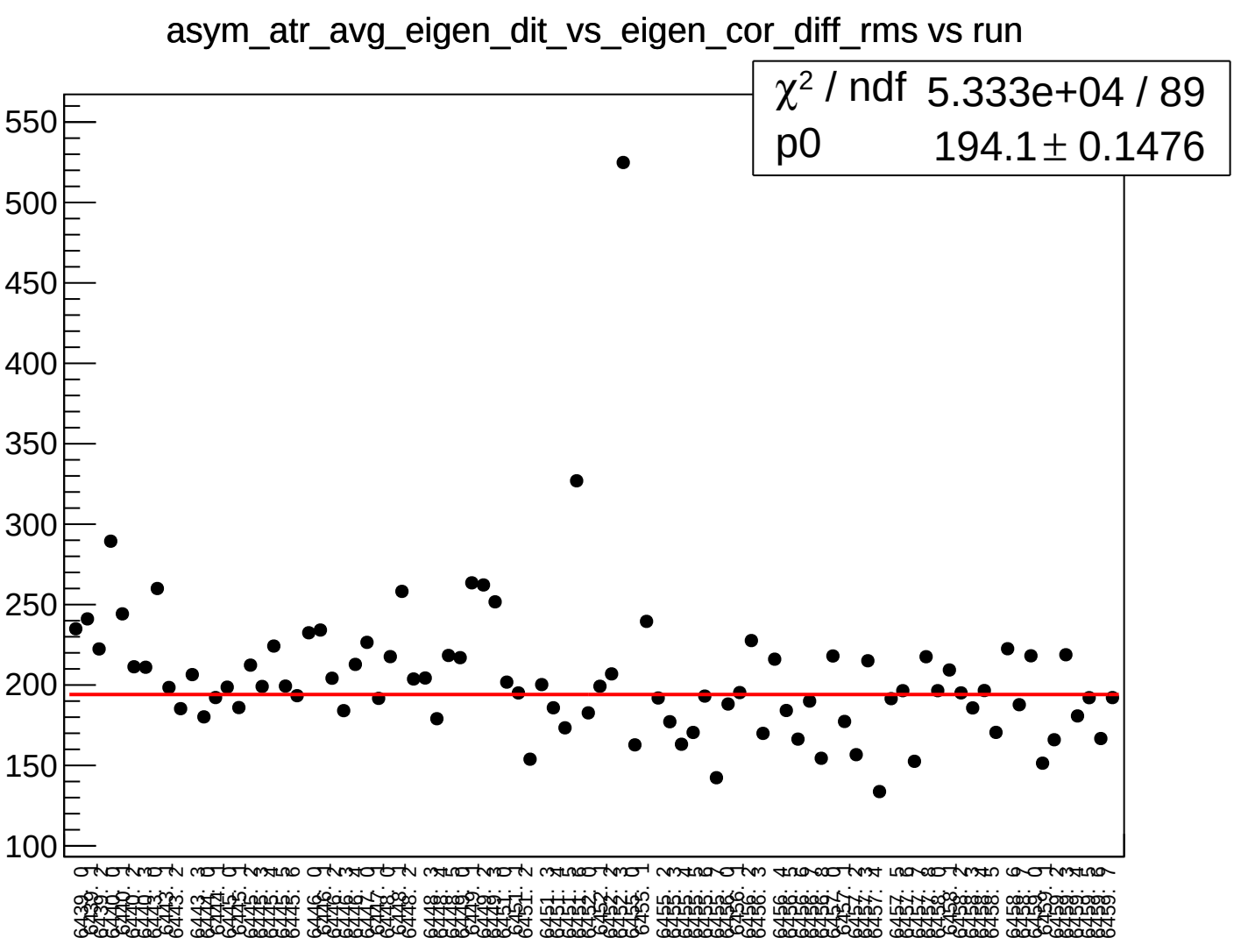

asym_atr_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 73.63 / 89
p0 −0.2581± 0.2088
pull
Entries 90
Mean 249.2
Std Dev 0

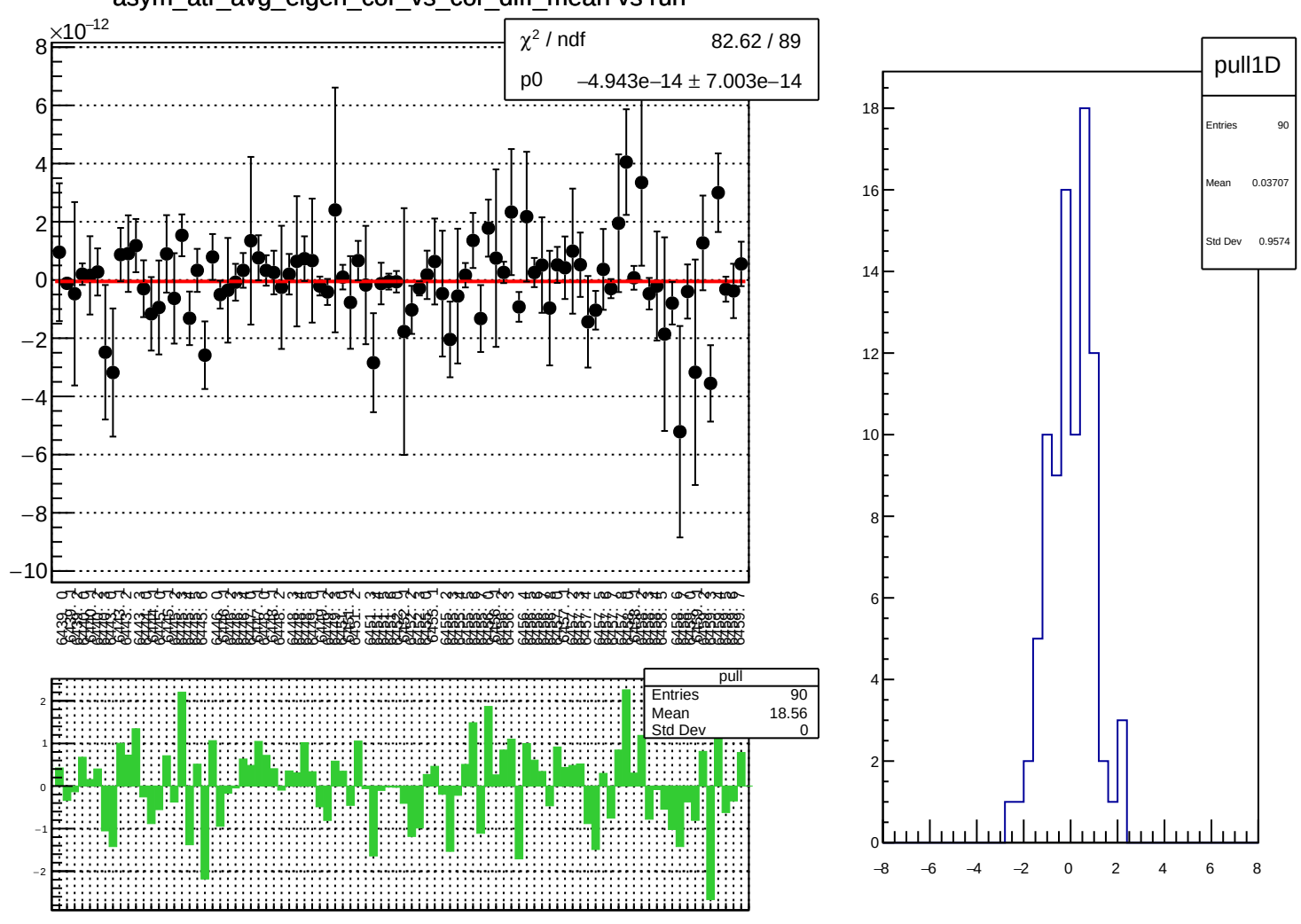

pull1D
Entries 90
Mean −0.008858
Std Dev 0.9044

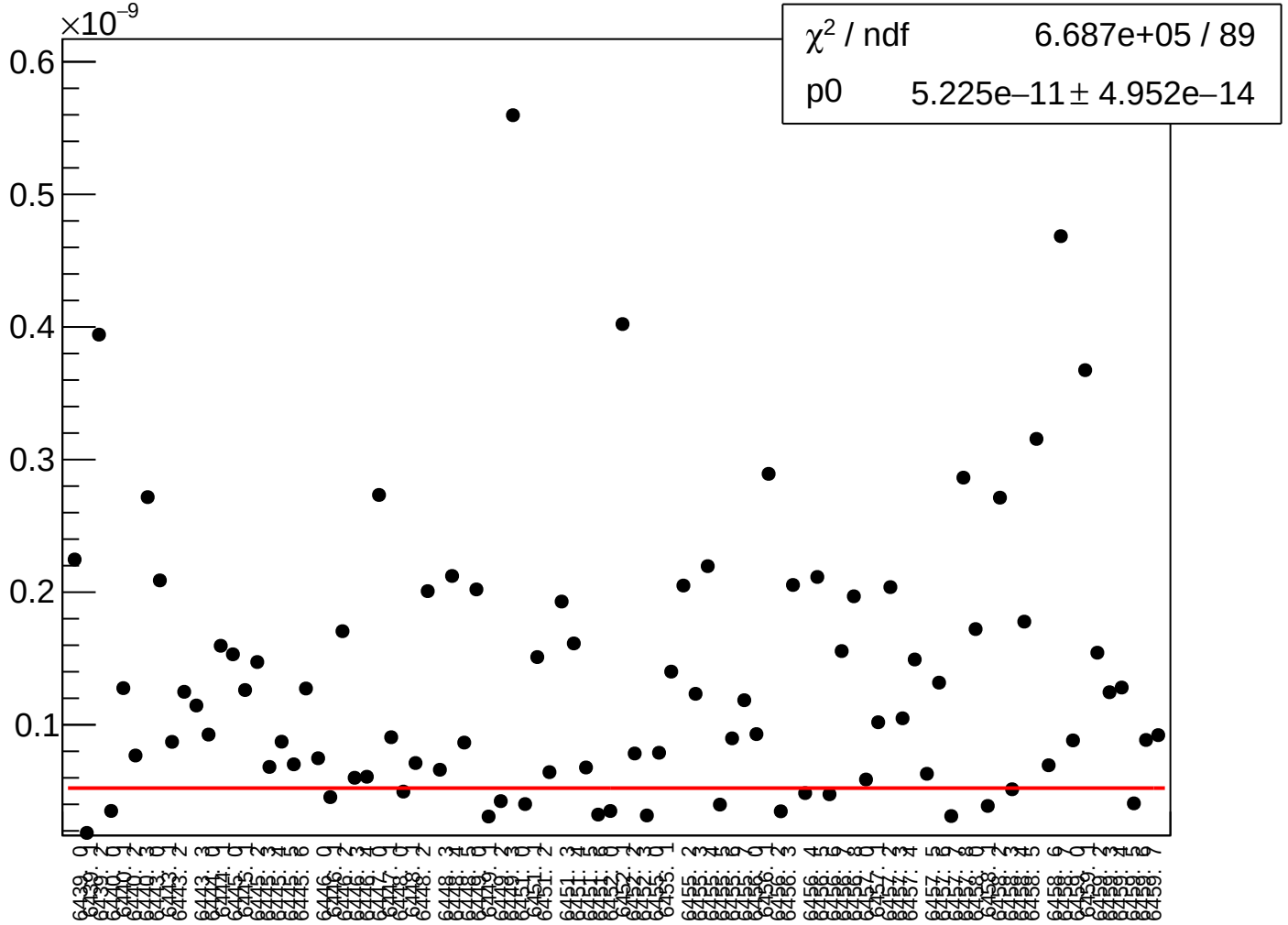

asym_atr_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.333e+04 / 89
p0 194.1 ± 0.1476
550
500
450
400
350
300
250
200
150
100

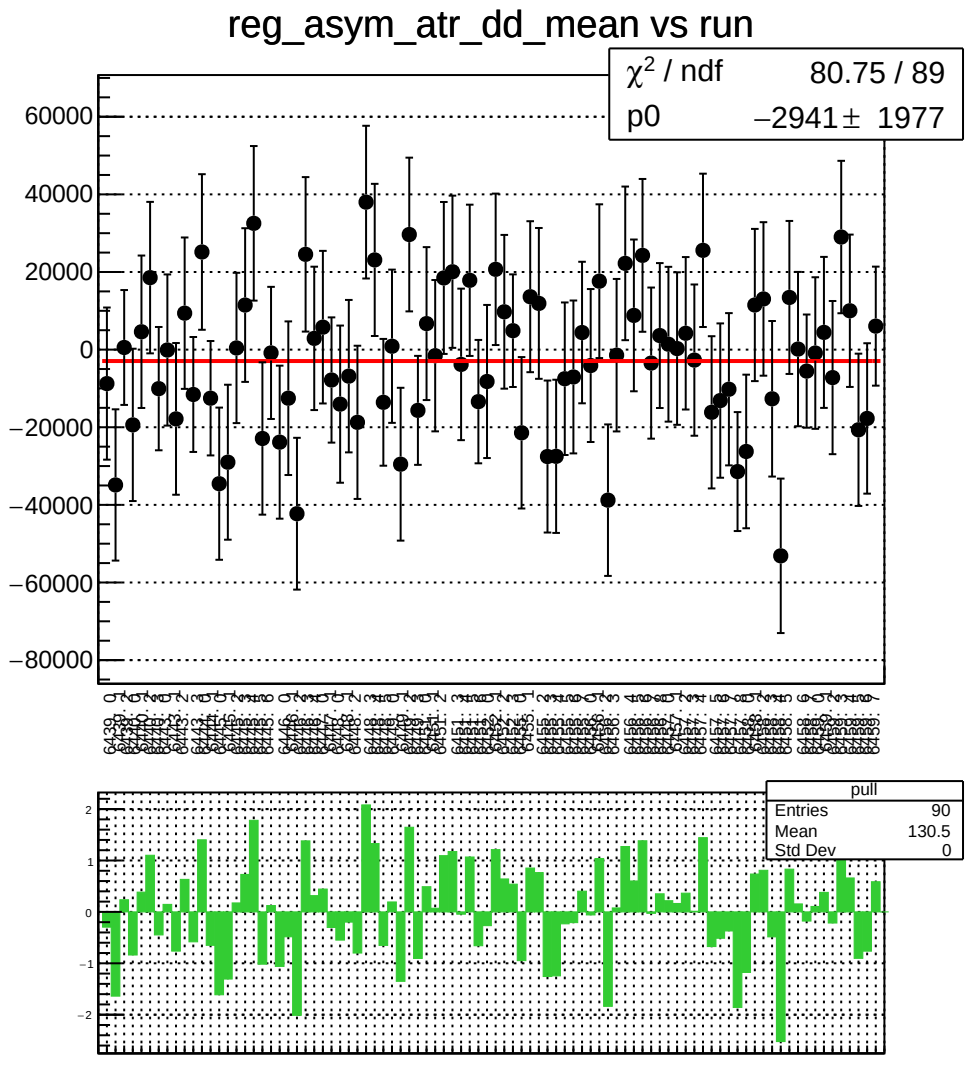

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.63 / 89
p0 −0.2581± 0.2088
pull
Entries 90
Mean 249.2
Std Dev 0

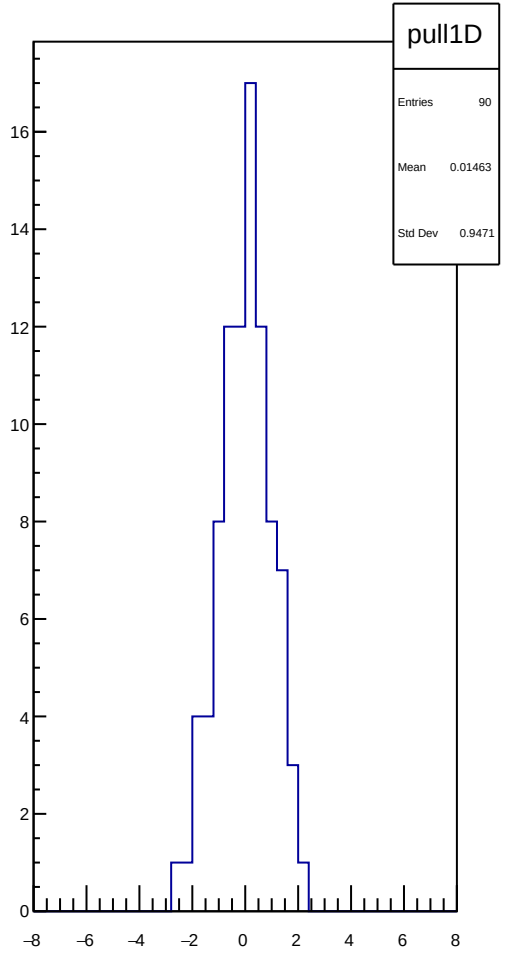

pull1D
Entries 90
Mean −0.008858
Std Dev 0.9044

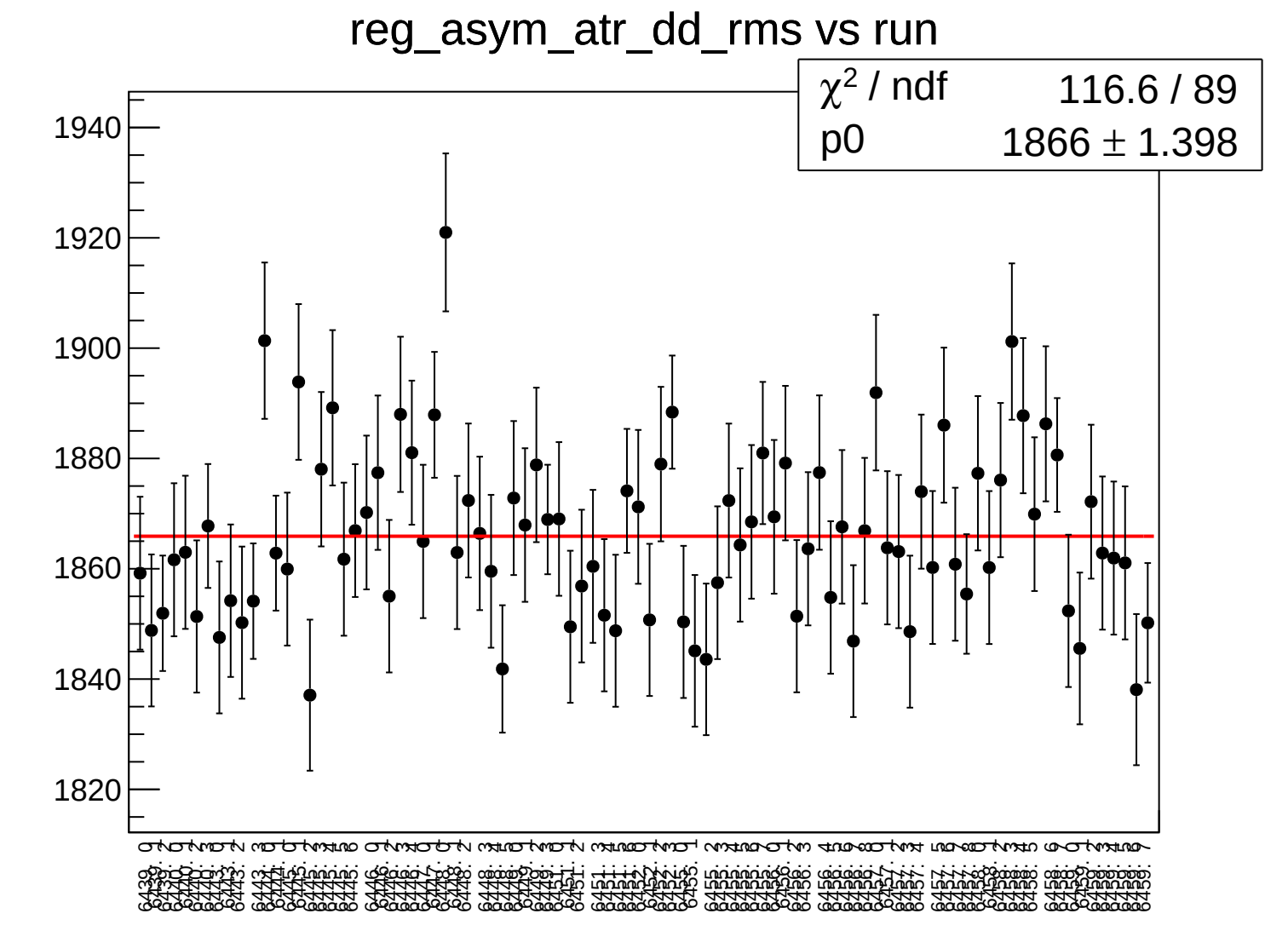

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.333e+04 / 89
p0 194.1 ± 0.1476
550
500
450
400
350
300
250
200
150
100

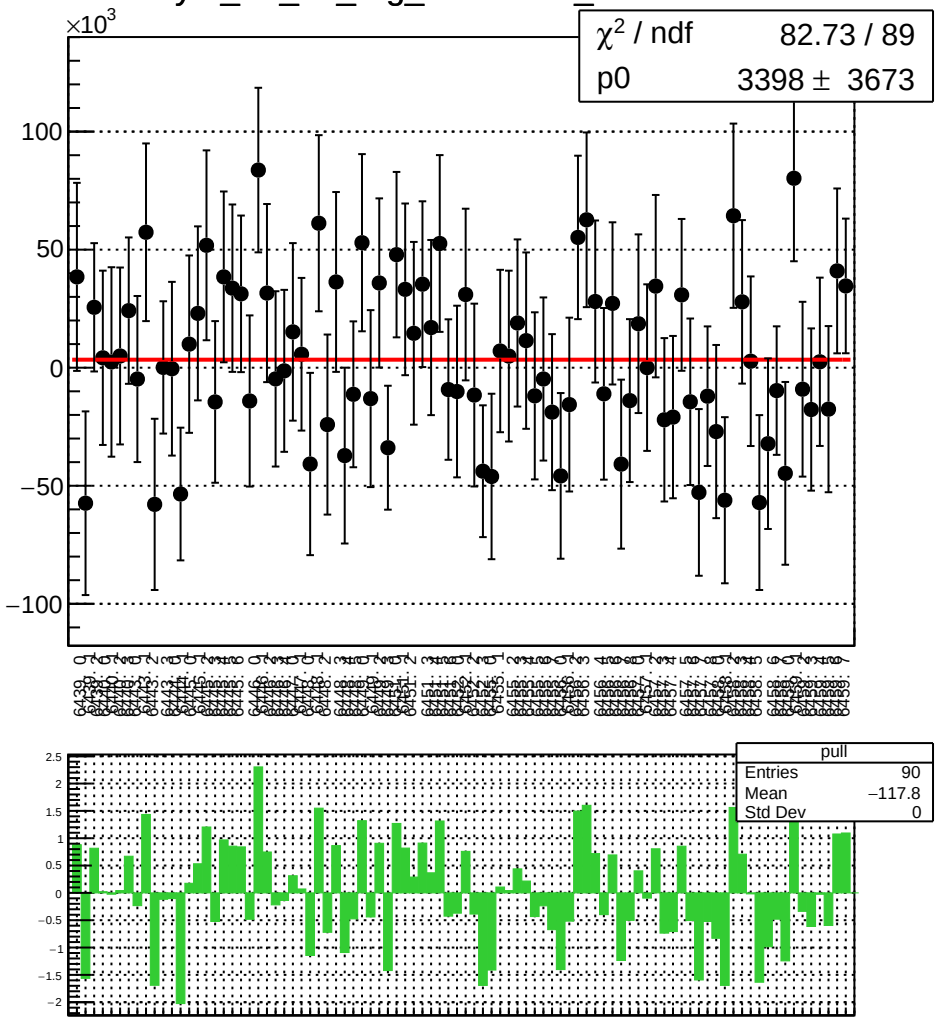

asym_atr_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.62 / 89
p0 −4.943e−14 ± 7.003e−14
pull
Entries 90
Mean 18.56
Std Dev 0
pull1D
Entries 90
Mean 0.03707
Std Dev 0.9574

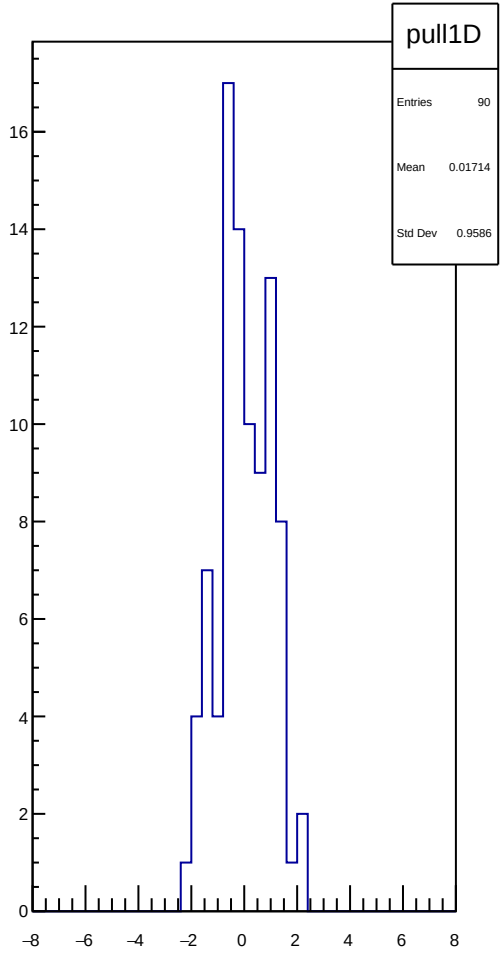

asym_atr_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.687e+05 / 89
p0 5.225e−11 ± 4.952e−14
0.6
0.5
0.4
0.3
0.2
0.1

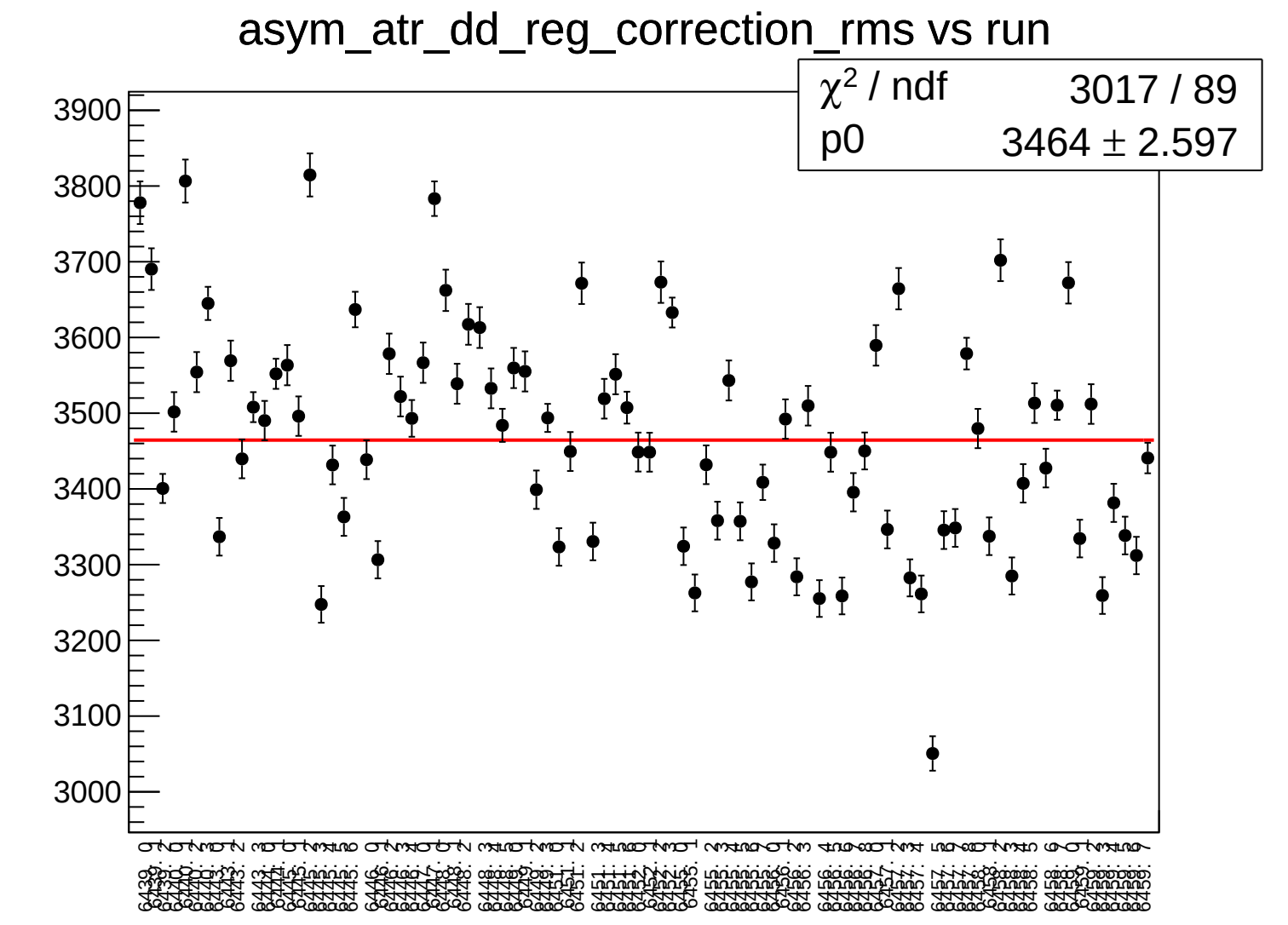

reg_asym_atr_dd_mean vs run
χ² / ndf 80.75 / 89
p0 −2941 ± 1977
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 90
Mean 130.5
Std Dev 0
2
1
0
−1
−2

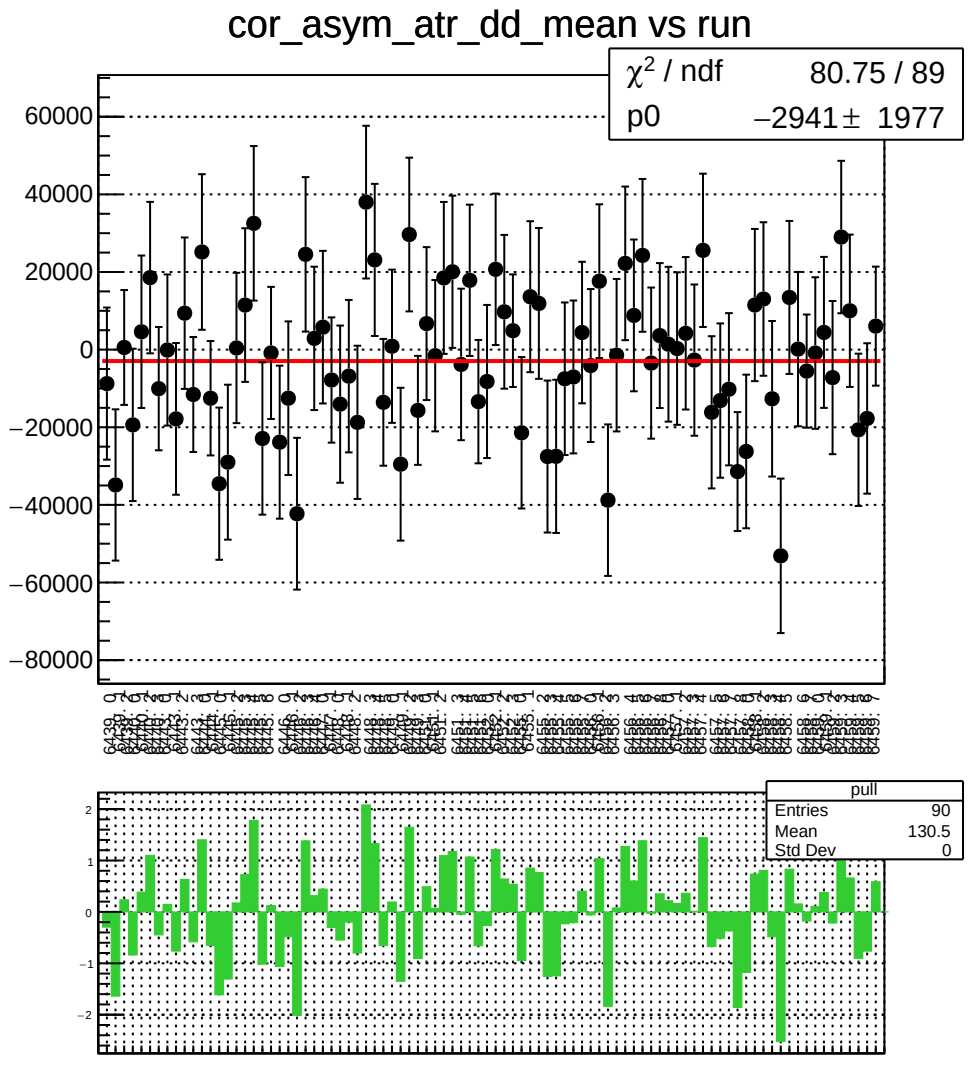

pull1D
Entries 90
Mean 0.01463
Std Dev 0.9471
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

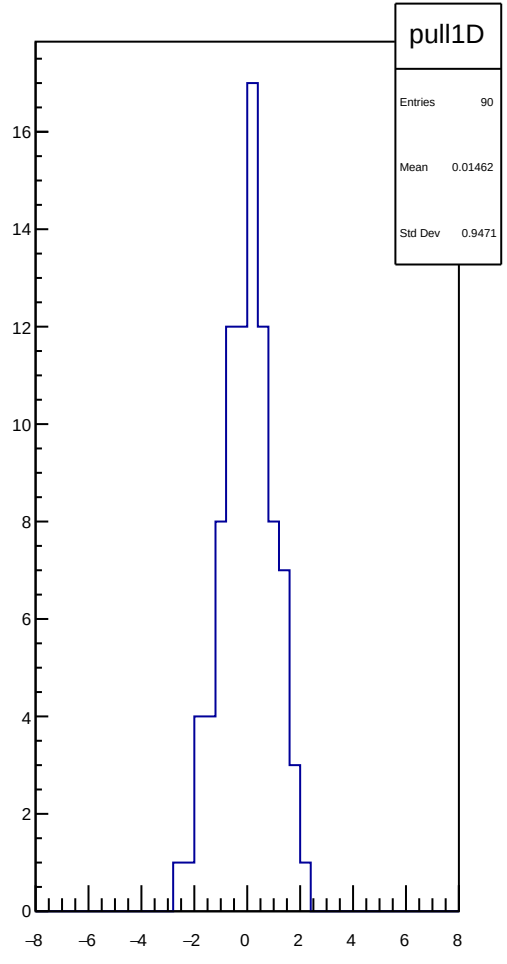

reg_asym_atr_dd_rms vs run
χ² / ndf 116.6 / 89
p0 1866 ± 1.398
1940
1920
1900
1880
1860
1840
1820

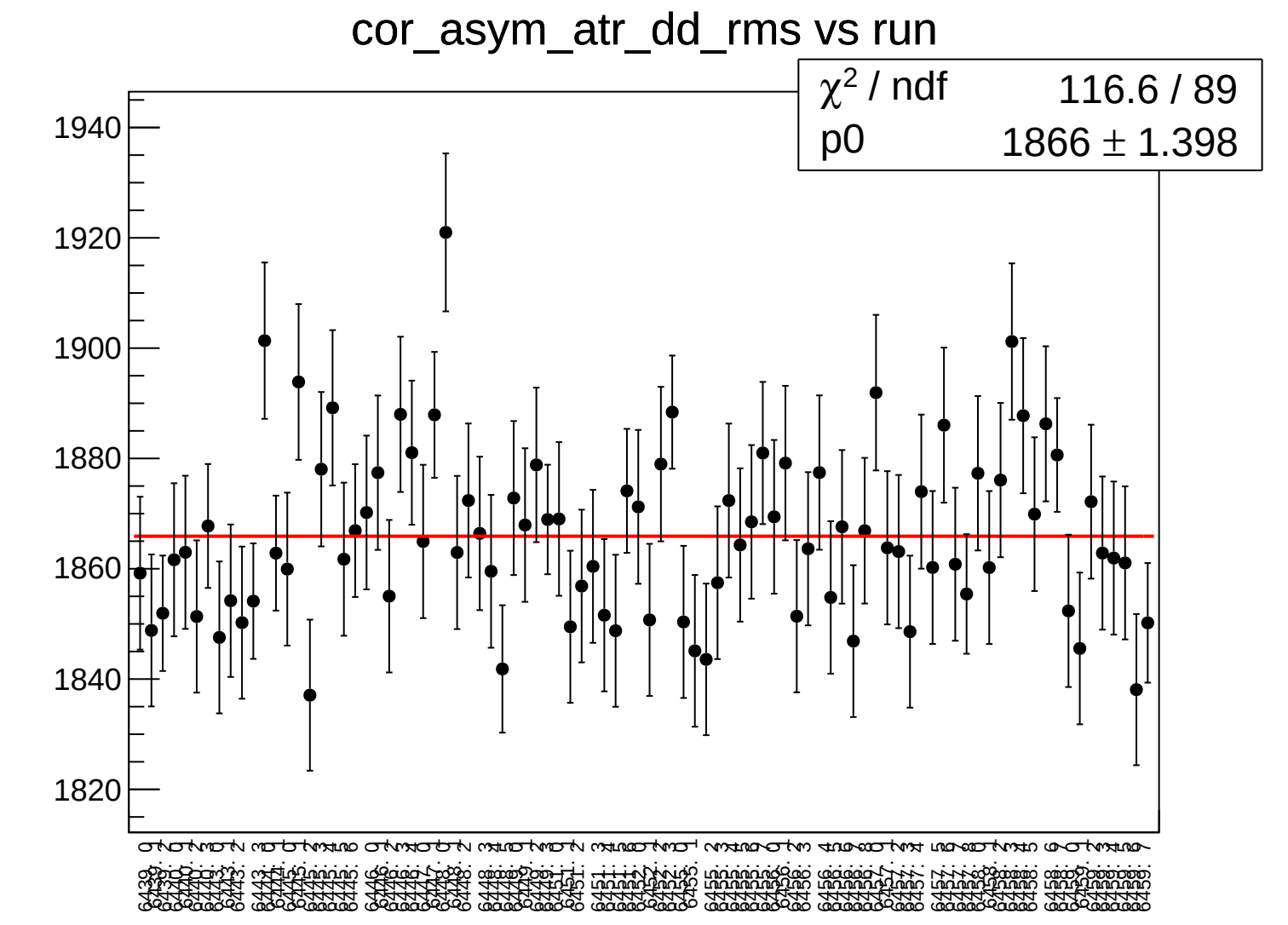

asym_atr_dd_reg_correction_mean vs run
×10^3
χ² / ndf 82.73 / 89
p0 3398 ± 3673
100
50
0
−50
−100
pull
Entries 90
Mean −117.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

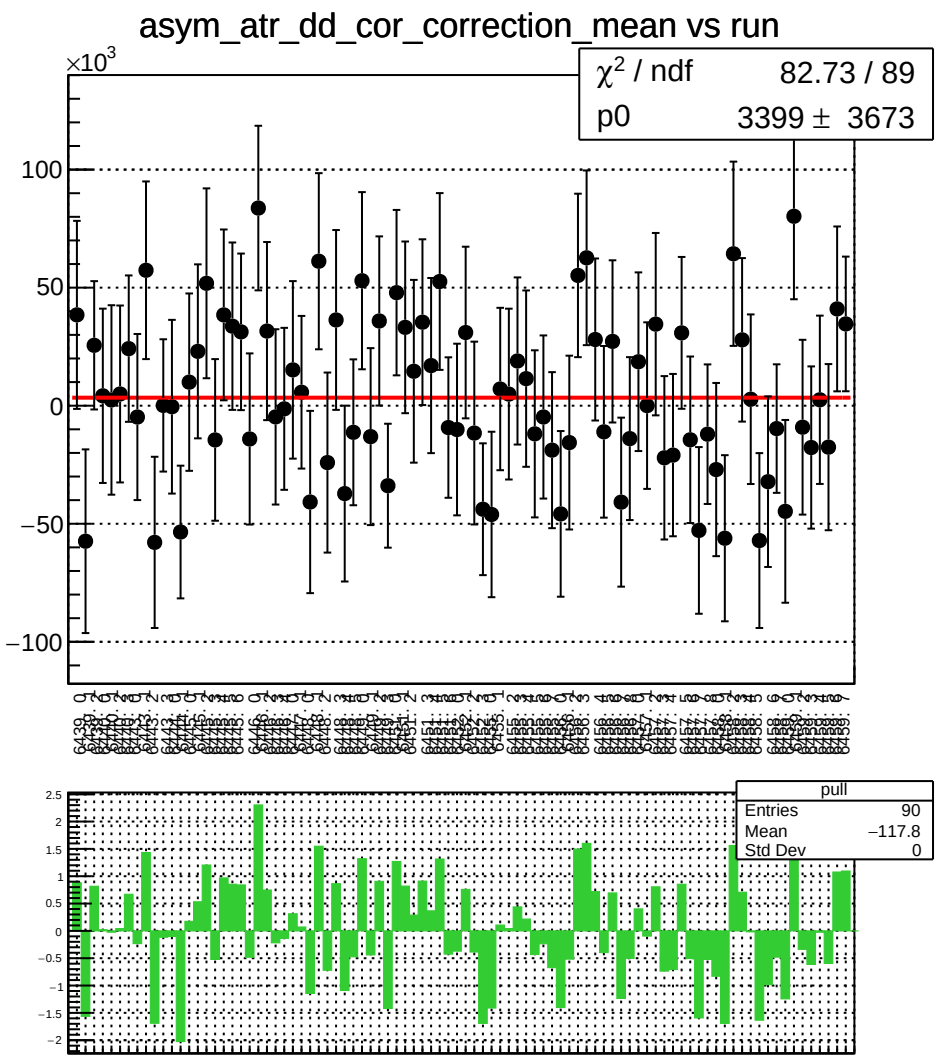

pull1D
Entries 90
Mean 0.01714
Std Dev 0.9586
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

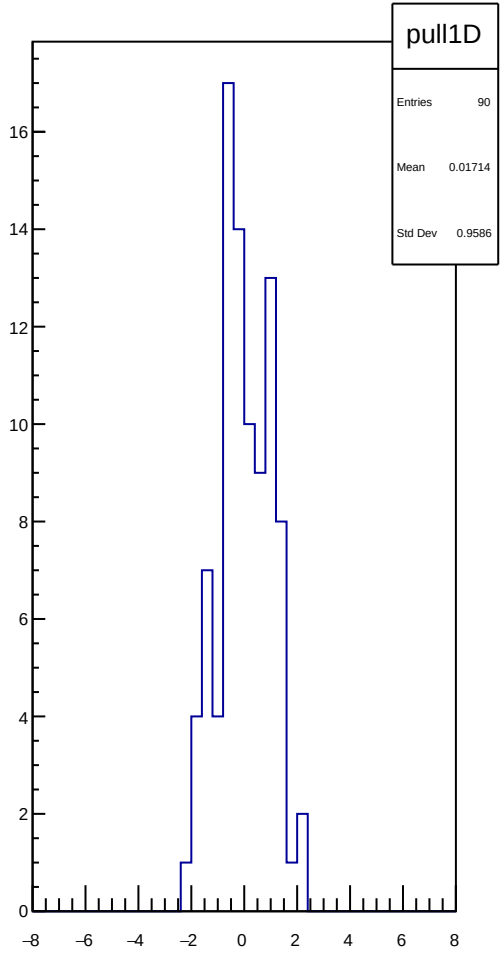

asym_atr_dd_reg_correction_rms vs run
χ² / ndf 3017 / 89
p0 3464 ± 2.597
3900
3800
3700
3600
3500
3400
3300
3200
3100
3000

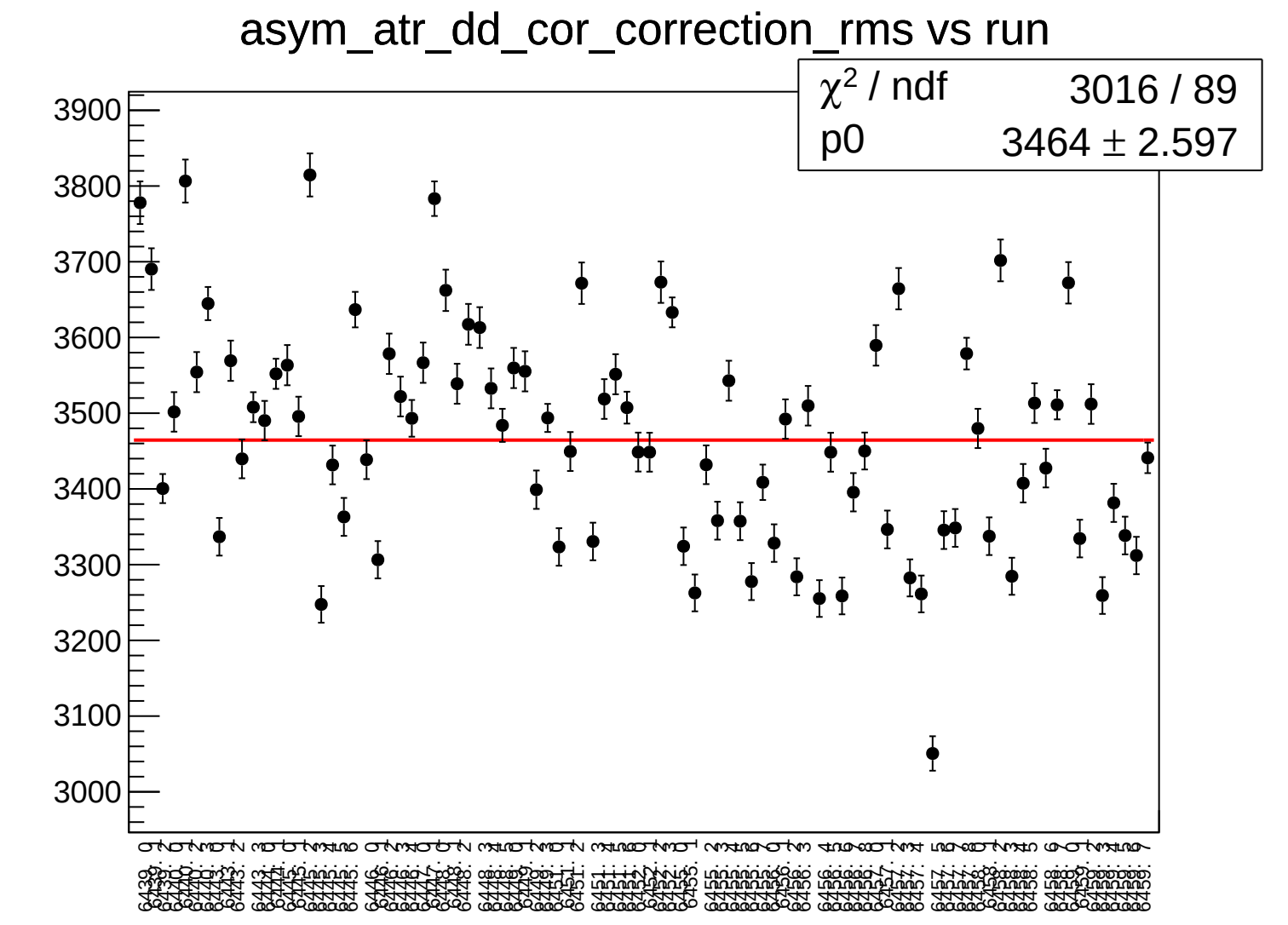

cor_asym_atr_dd_mean vs run
χ² / ndf 80.75 / 89
p0 −2941 ± 1977
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 90
Mean 130.5
Std Dev 0
2
1
0
−1
−2

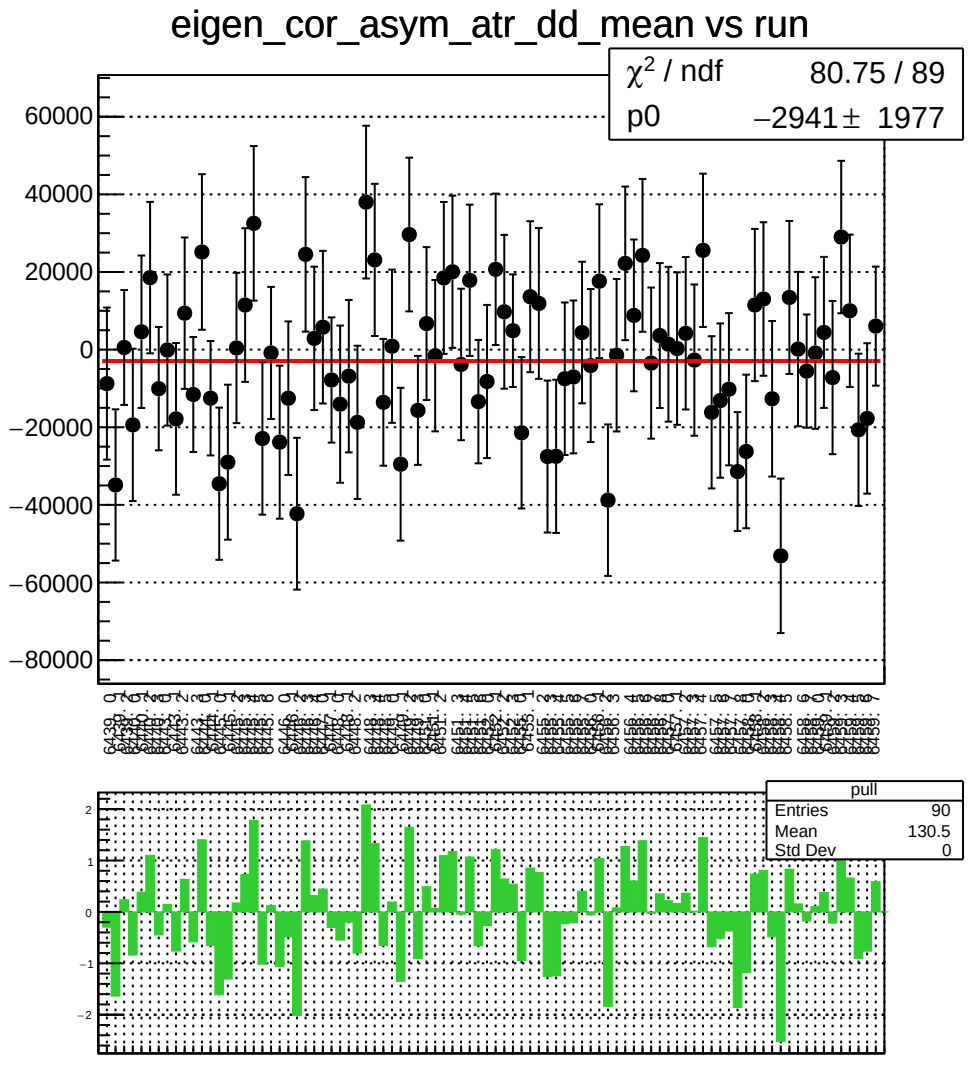

pull1D
Entries 90
Mean 0.01462
Std Dev 0.9471
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

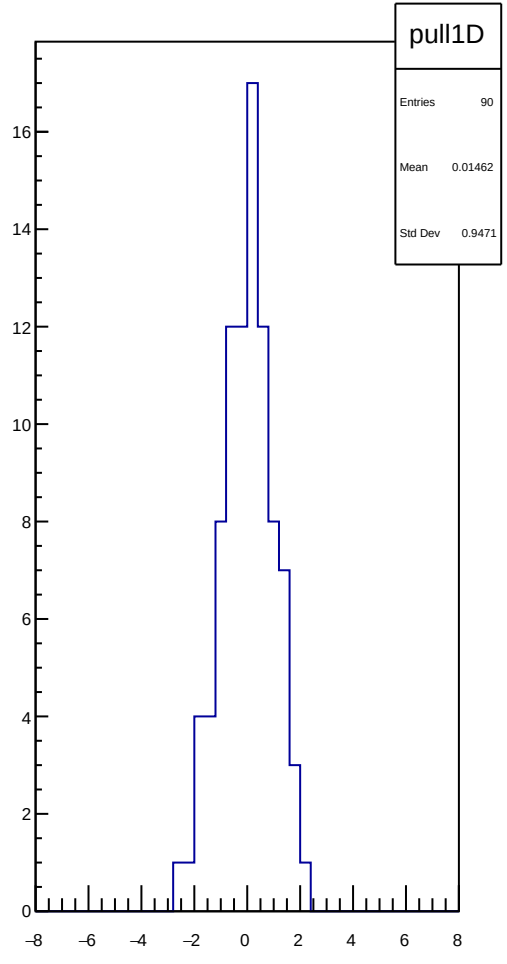

cor_asym_atr_dd_rms vs run
χ^2 / ndf 116.6 / 89
p0 1866 ± 1.398
1940
1920
1900
1880
1860
1840
1820

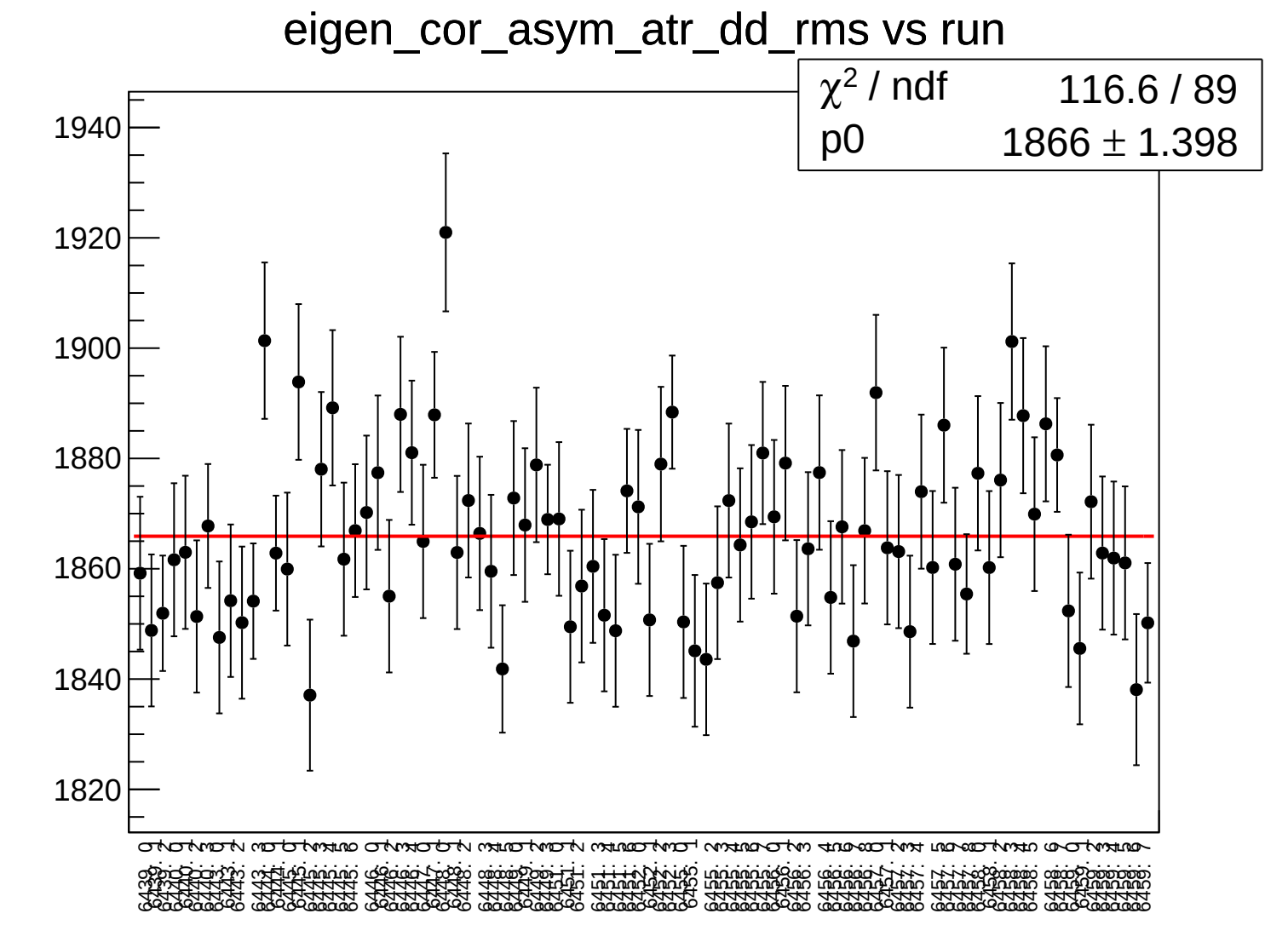

asym_atr_dd_cor_correction_mean vs run
χ² / ndf 82.73 / 89
p0 3399 ± 3673
×10³
100
50
0
−50
−100
pull
Entries 90
Mean −117.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

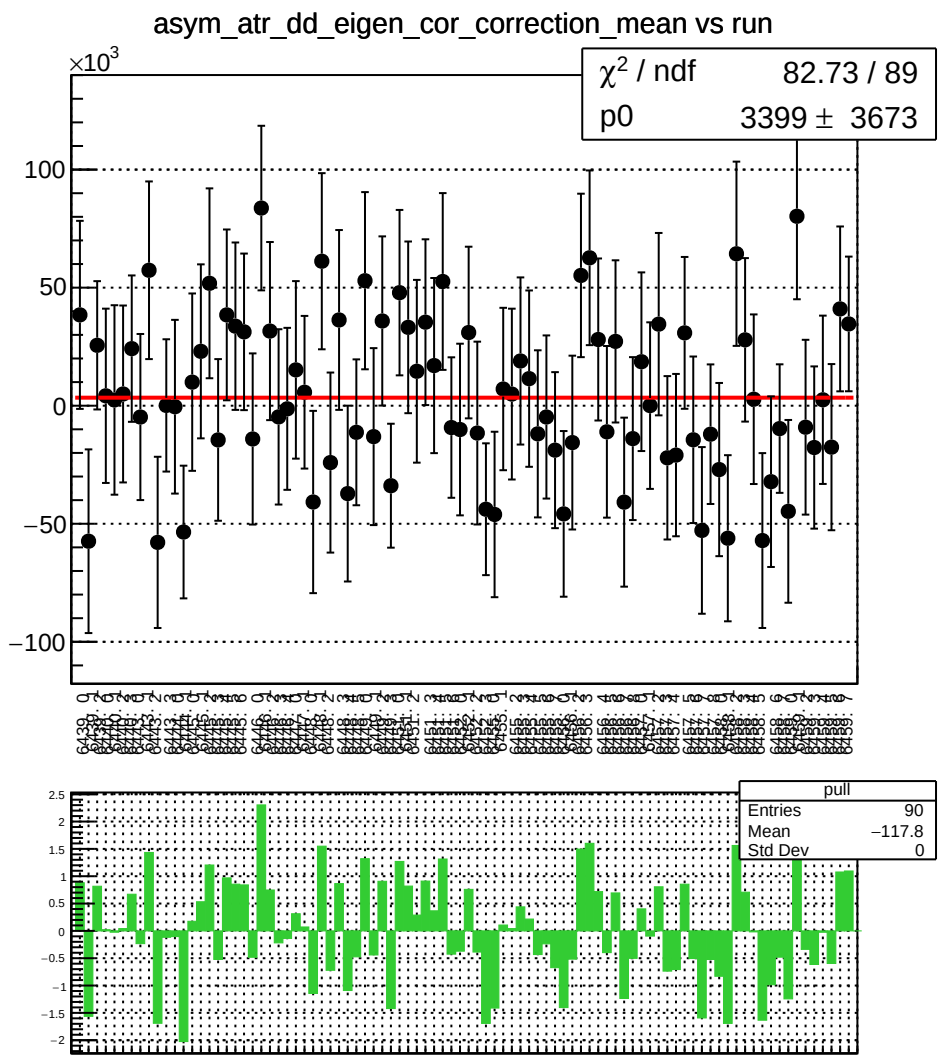

pull1D
Entries 90
Mean 0.01714
Std Dev 0.9586
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

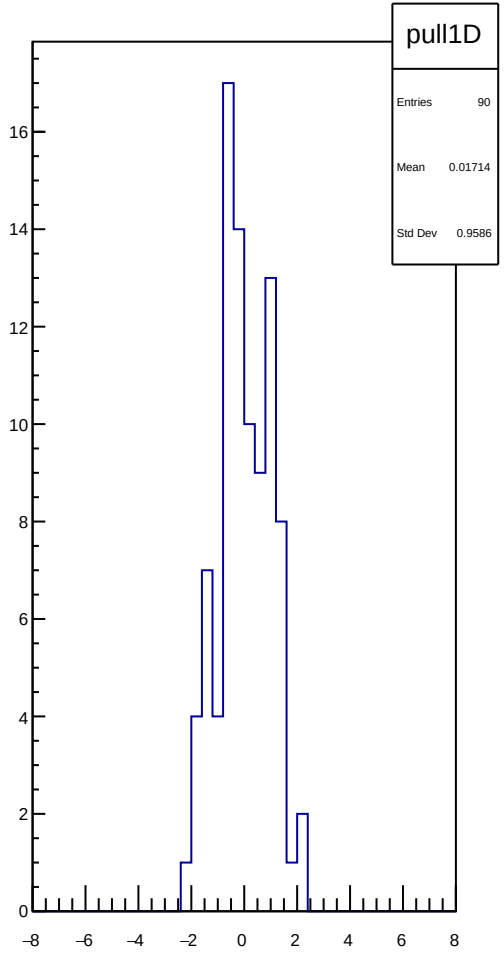

asym_atr_dd_cor_correction_rms vs run
χ² / ndf 3016 / 89
p0 3464 ± 2.597
3900
3800
3700
3600
3500
3400
3300
3200
3100
3000

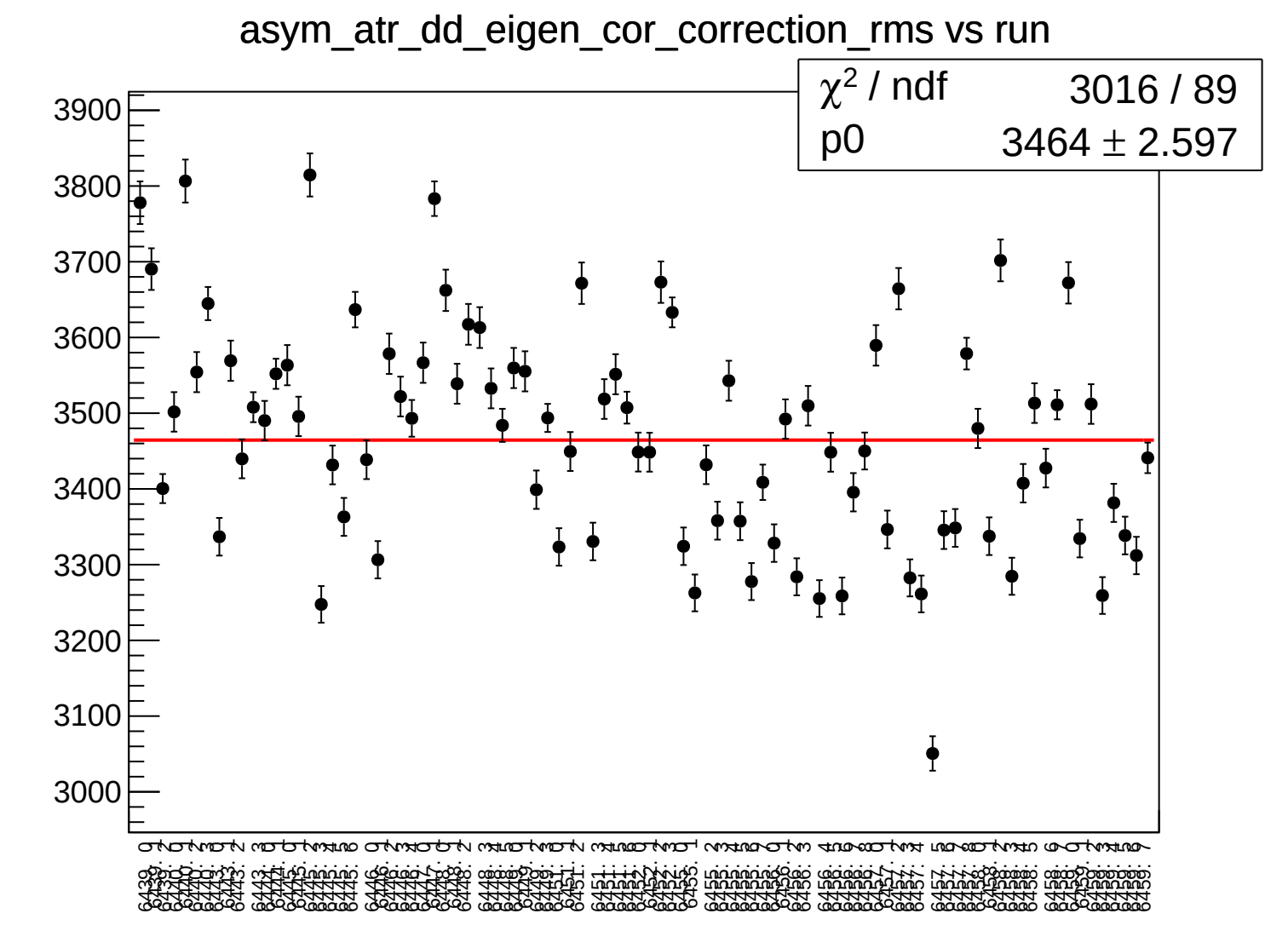

eigen_cor_asym_atr_dd_mean vs run
χ² / ndf 80.75 / 89
p0 −2941 ± 1977
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 90
Mean 130.5
Std Dev 0
2
1
0
−1
−2

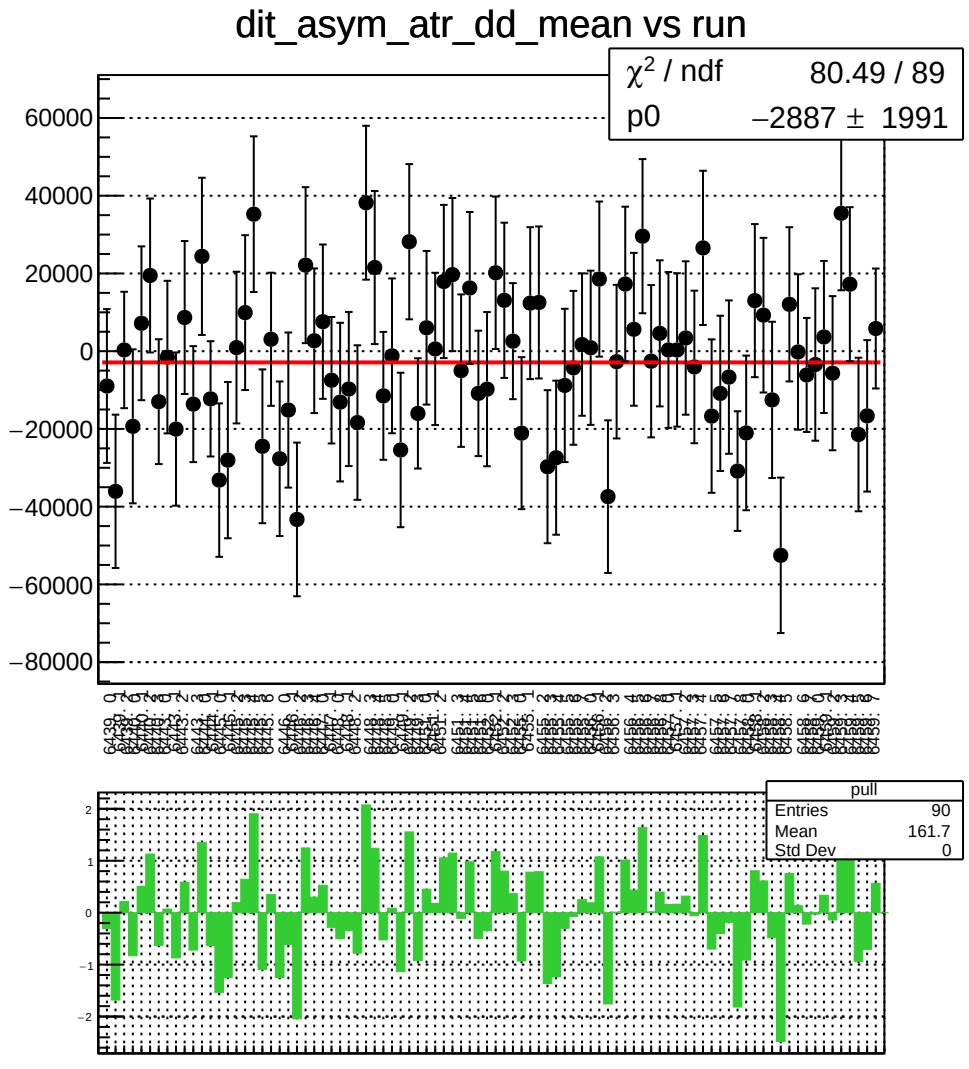

pull1D
Entries 90
Mean 0.01462
Std Dev 0.9471
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

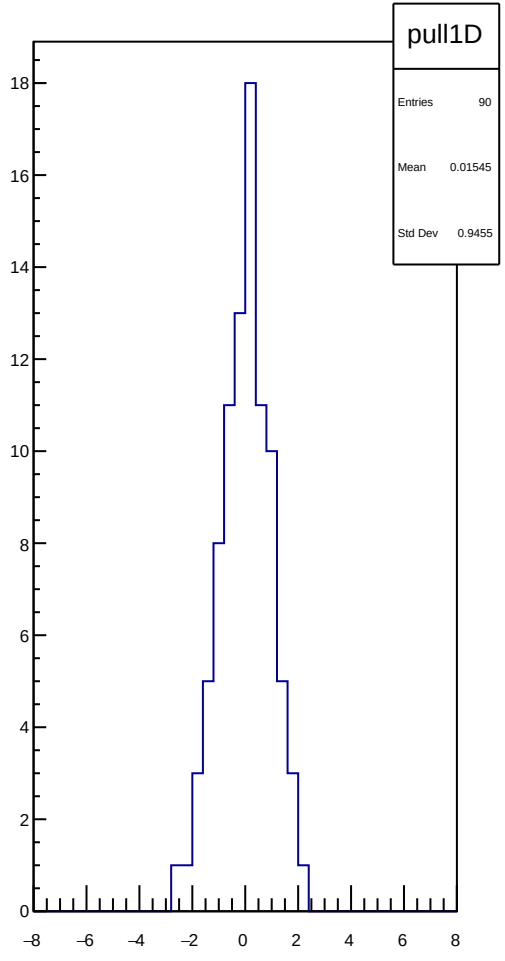

eigen_cor_asym_atr_dd_rms vs run
χ² / ndf 116.6 / 89
p0 1866 ± 1.398
1940
1920
1900
1880
1860
1840
1820

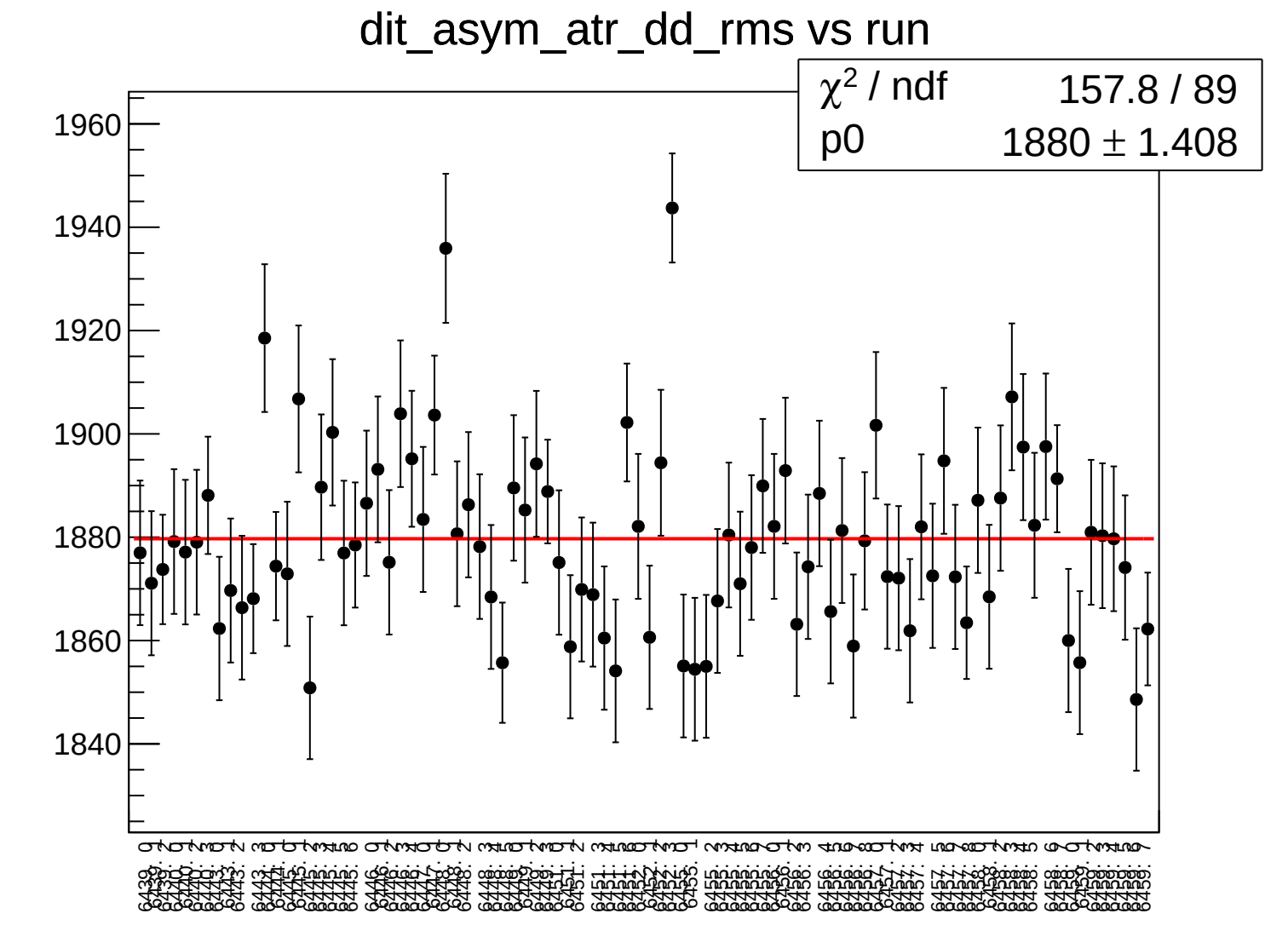

asym_atr_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 82.73 / 89
p0 3399 ± 3673
100
50
0
−50
−100
pull
Entries 90
Mean −117.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

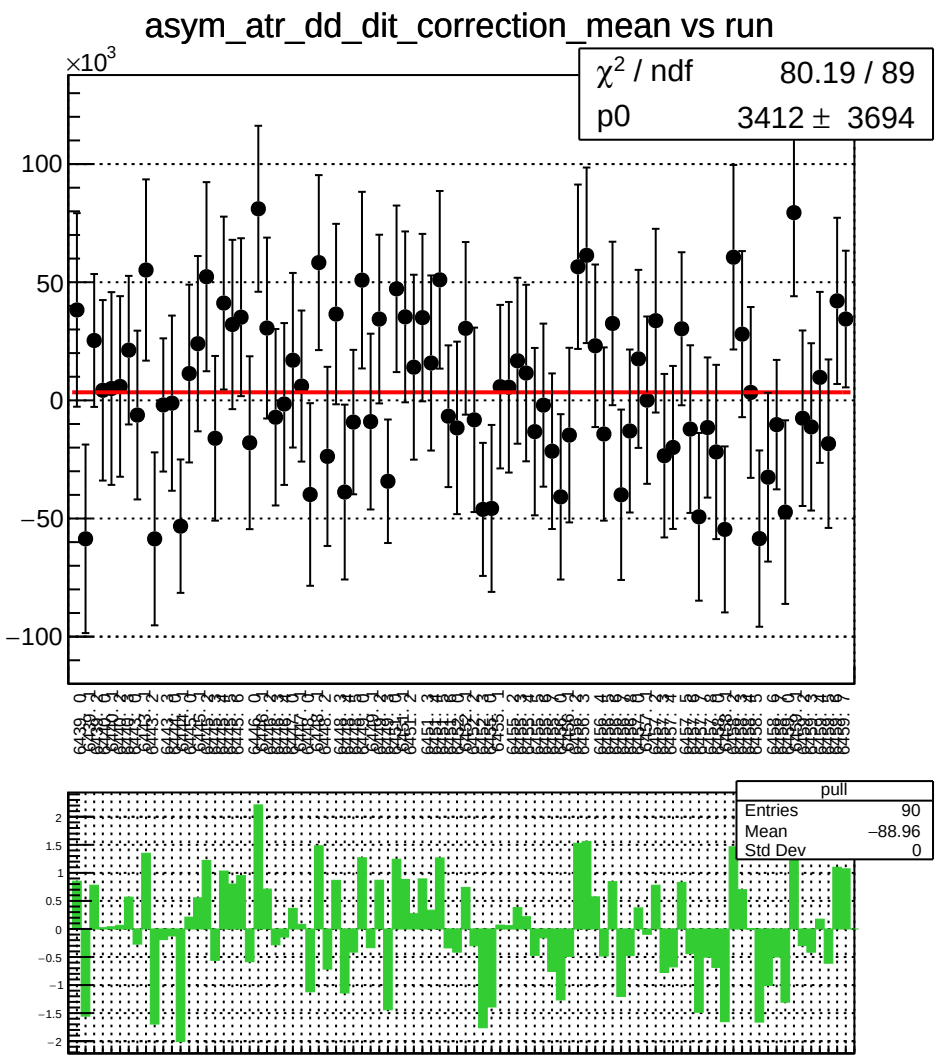

pull1D
Entries 90
Mean 0.01714
Std Dev 0.9586
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

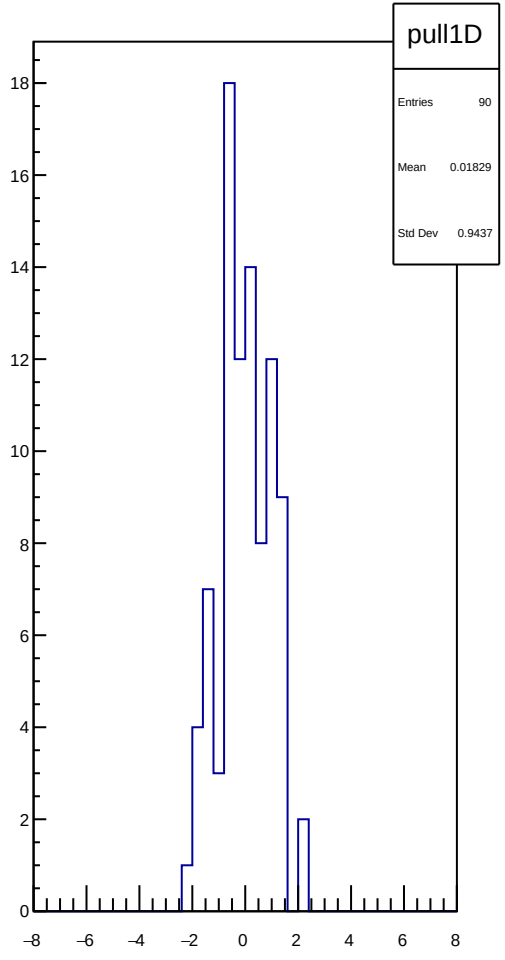

asym_atr_dd_eigen_cor_correction_rms vs run
χ² / ndf 3016 / 89
p0 3464 ± 2.597
3900
3800
3700
3600
3500
3400
3300
3200
3100
3000

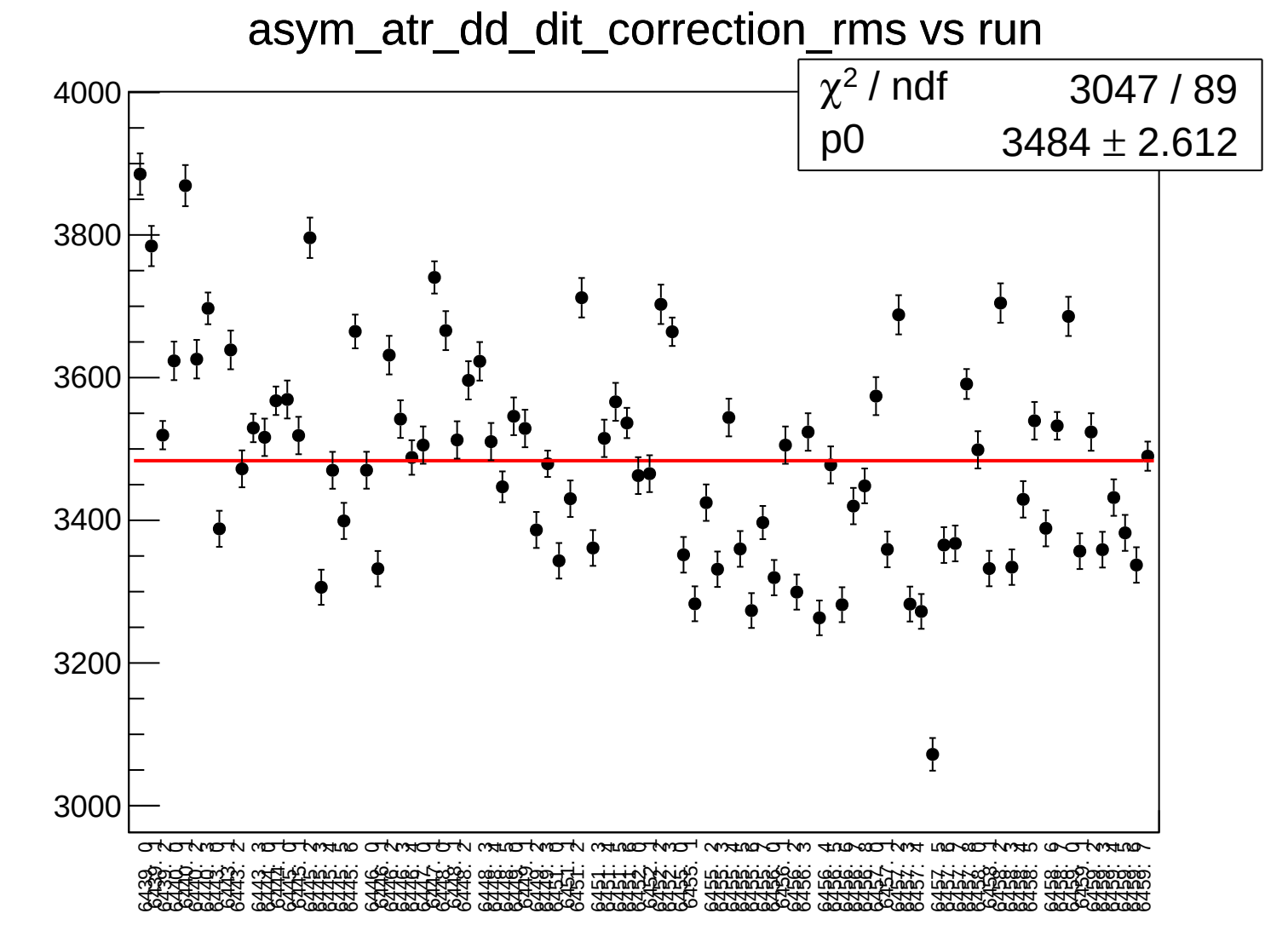

dit_asym_atr_dd_mean vs run
χ² / ndf 80.49 / 89
p0 −2887 ± 1991
pull
Entries 90
Mean 161.7
Std Dev 0

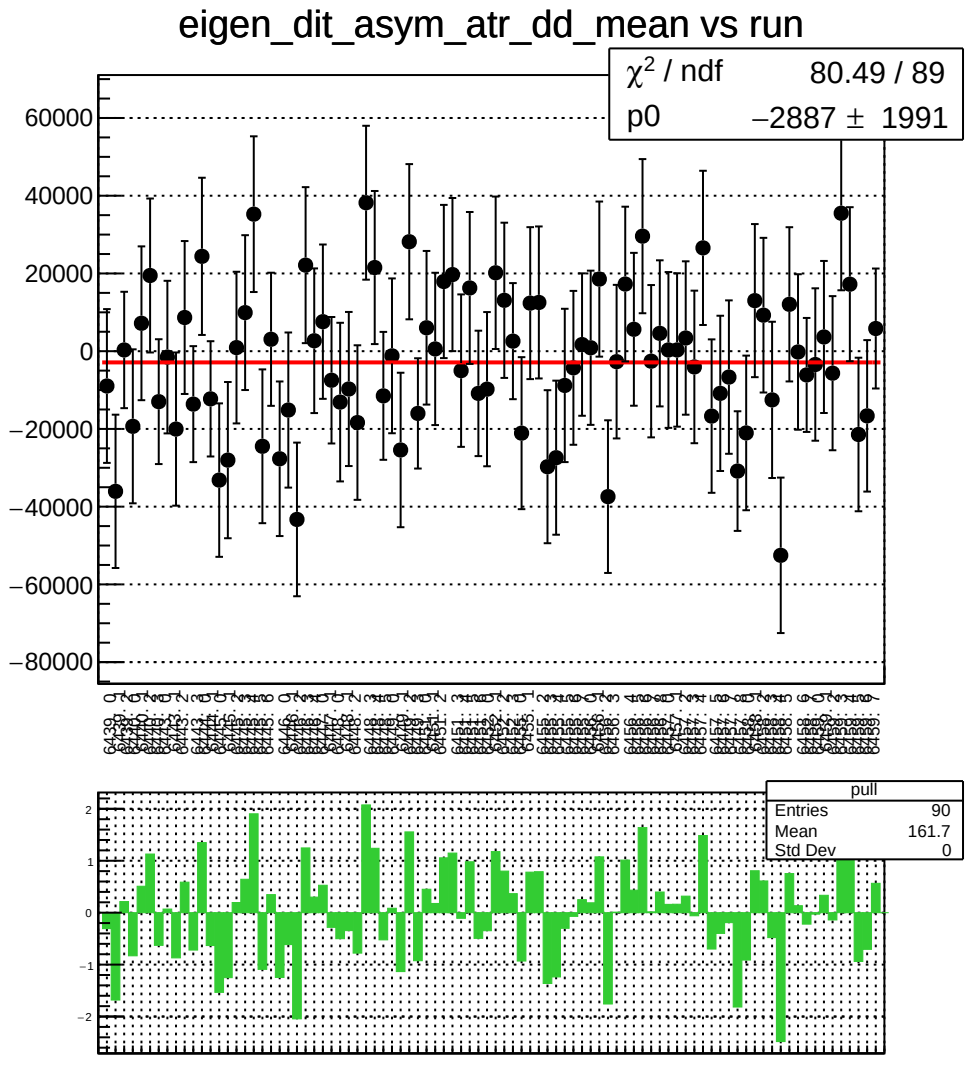

pull1D
Entries 90
Mean 0.01545
Std Dev 0.9455

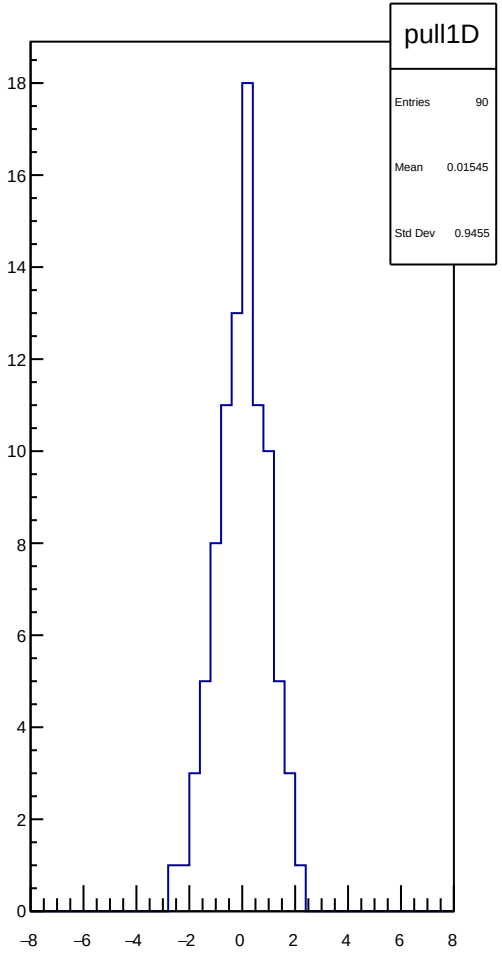

dit_asym_atr_dd_rms vs run
χ² / ndf 157.8 / 89
p0 1880 ± 1.408
1960
1940
1920
1900
1880
1860
1840

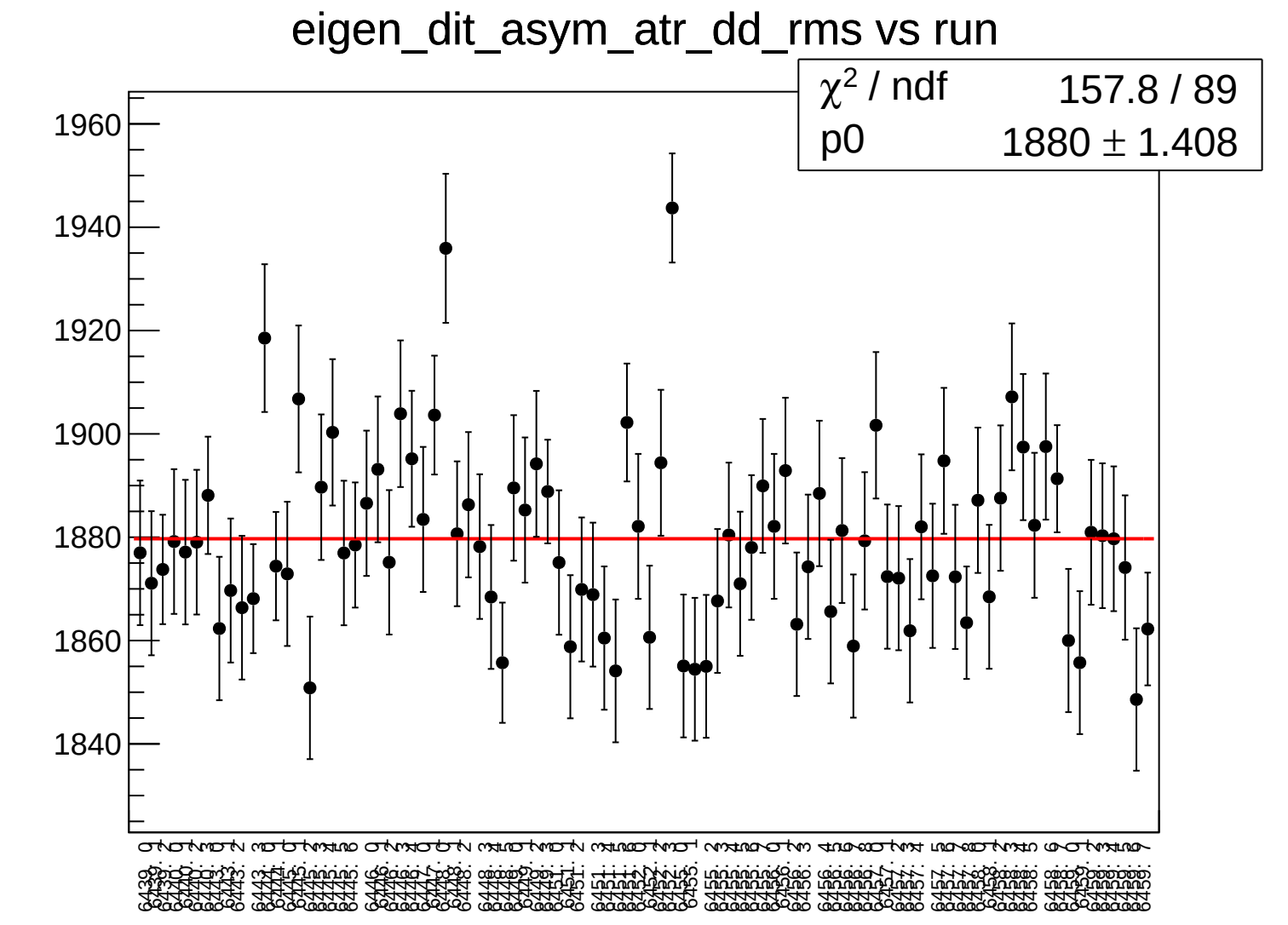

asym_atr_dd_dit_correction_mean vs run
χ² / ndf 80.19 / 89
p0 3412 ± 3694
×10³
100
50
0
−50
−100
pull
Entries 90
Mean −88.96
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

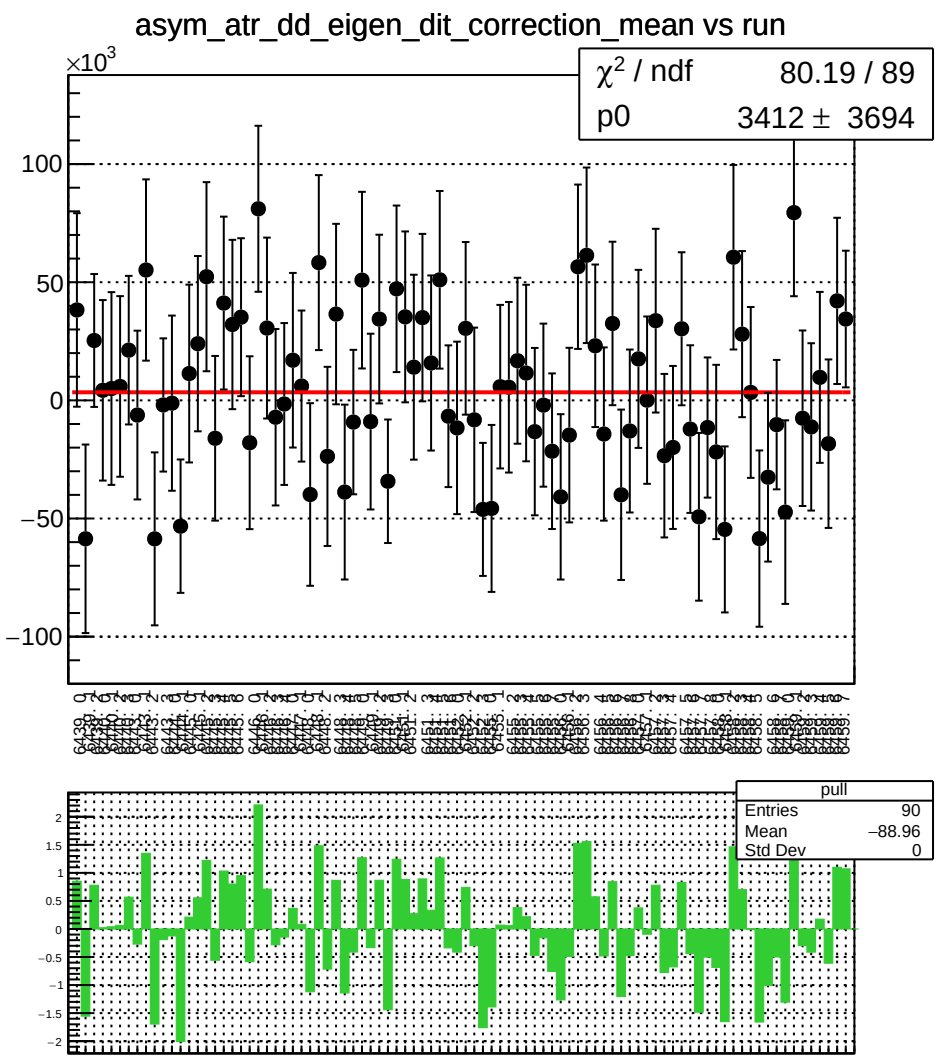

pull1D
Entries 90
Mean 0.01829
Std Dev 0.9437
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

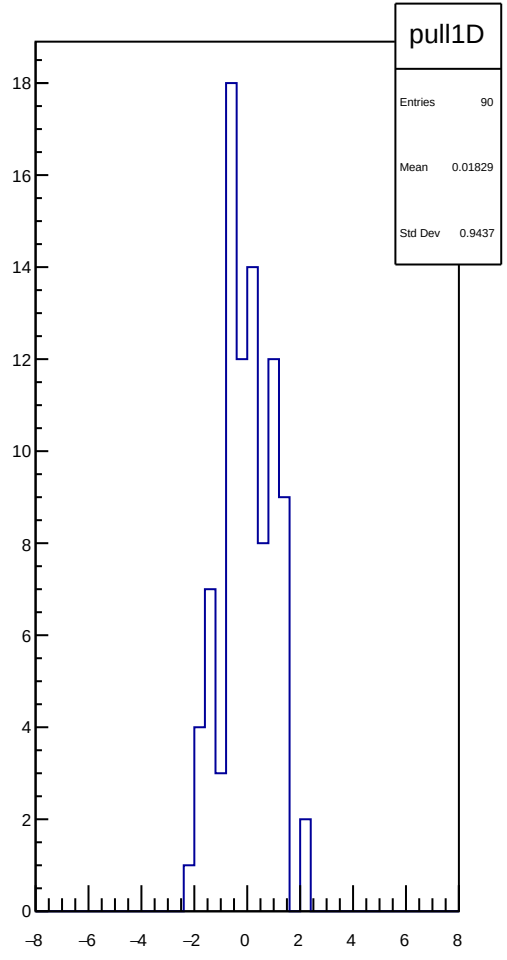

asym_atr_dd_dit_correction_rms vs run
χ² / ndf 3047 / 89
p0 3484 ± 2.612
4000
3800
3600
3400
3200
3000

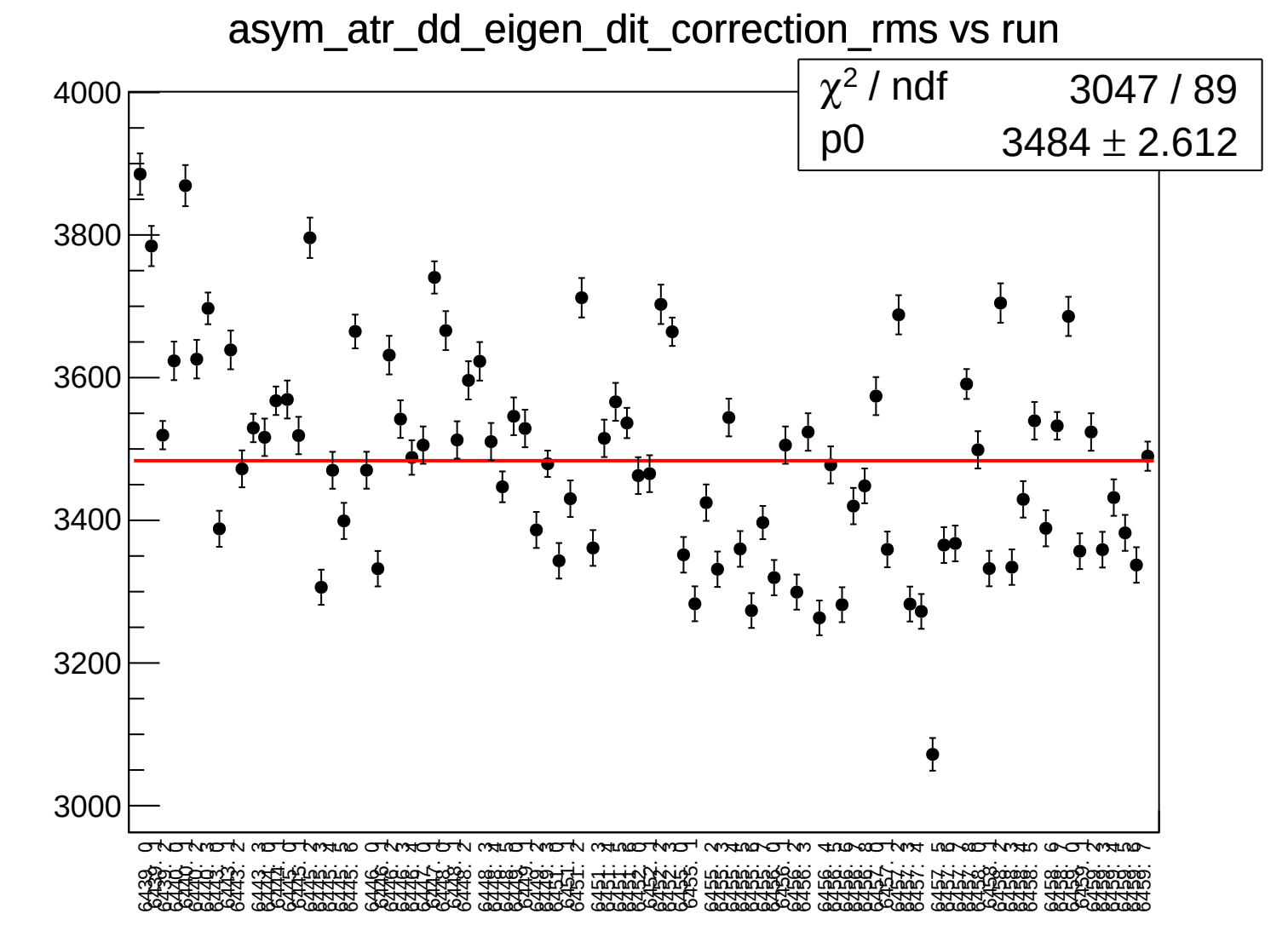

eigen_dit_asym_atr_dd_mean vs run
χ² / ndf 80.49 / 89
p0 −2887 ± 1991
pull
Entries 90
Mean 161.7
Std Dev 0

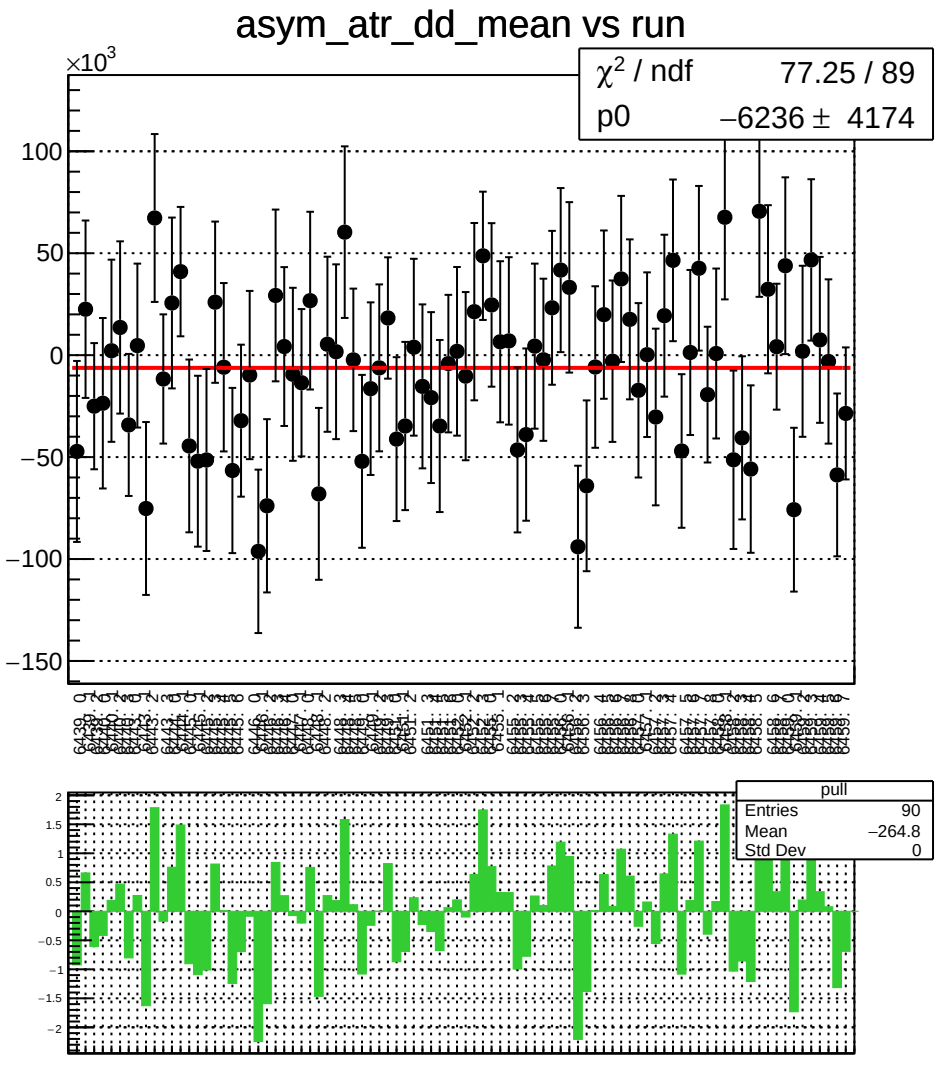

pull1D
Entries 90
Mean 0.01545
Std Dev 0.9455

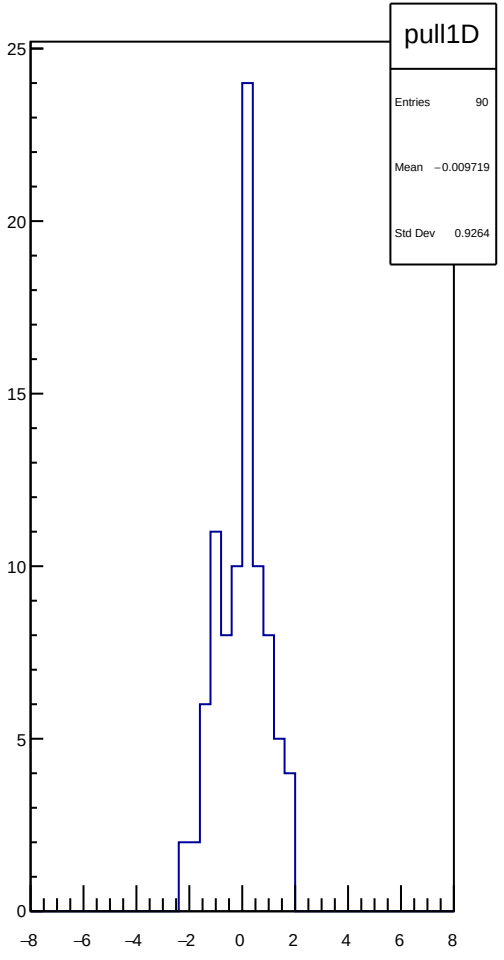

eigen_dit_asym_atr_dd_rms vs run
χ² / ndf 157.8 / 89
p0 1880 ± 1.408
1960
1940
1920
1900
1880
1860
1840

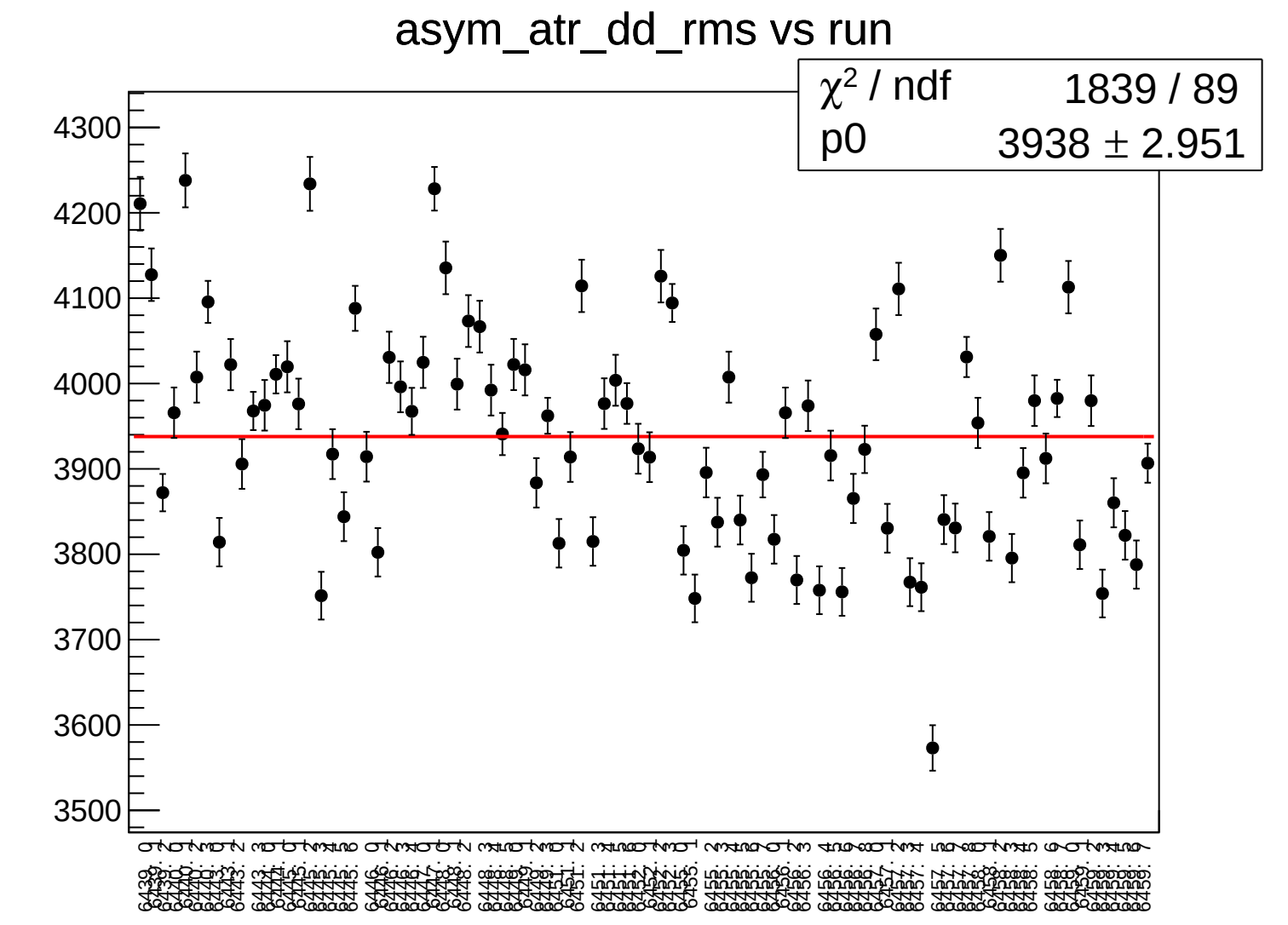

asym_atr_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 80.19 / 89
p0 3412 ± 3694
100
50
0
−50
−100
pull
Entries 90
Mean −88.96
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

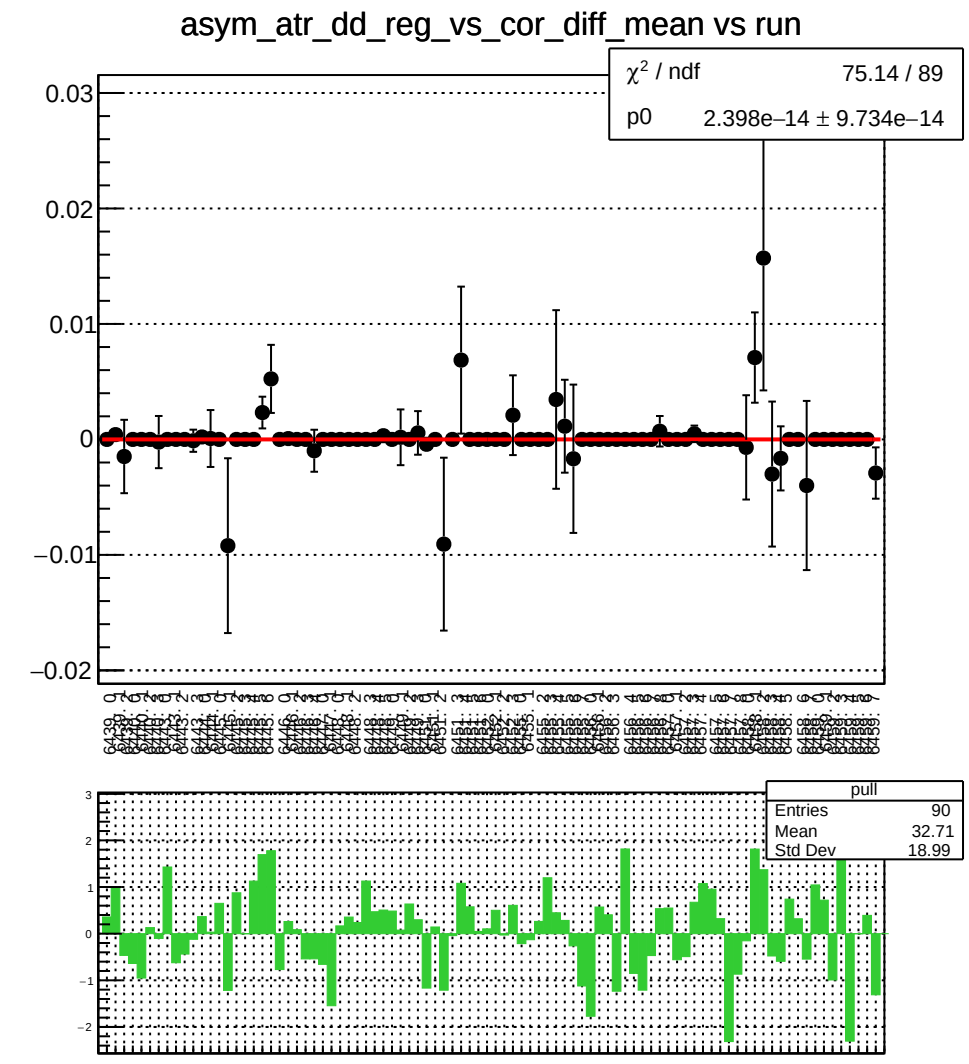

pull1D
Entries 90
Mean 0.01829
Std Dev 0.9437
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

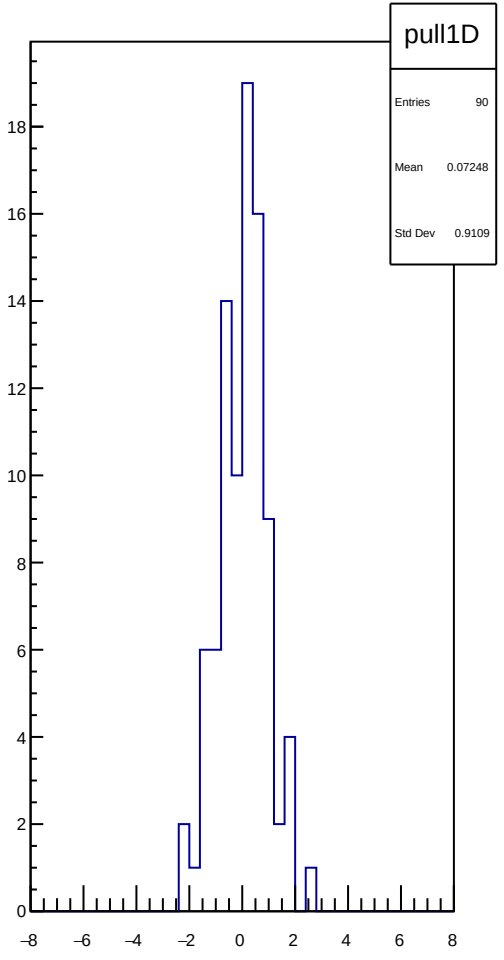

asym_atr_dd_eigen_dit_correction_rms vs run
χ² / ndf 3047 / 89
p0 3484 ± 2.612
4000
3800
3600
3400
3200
3000

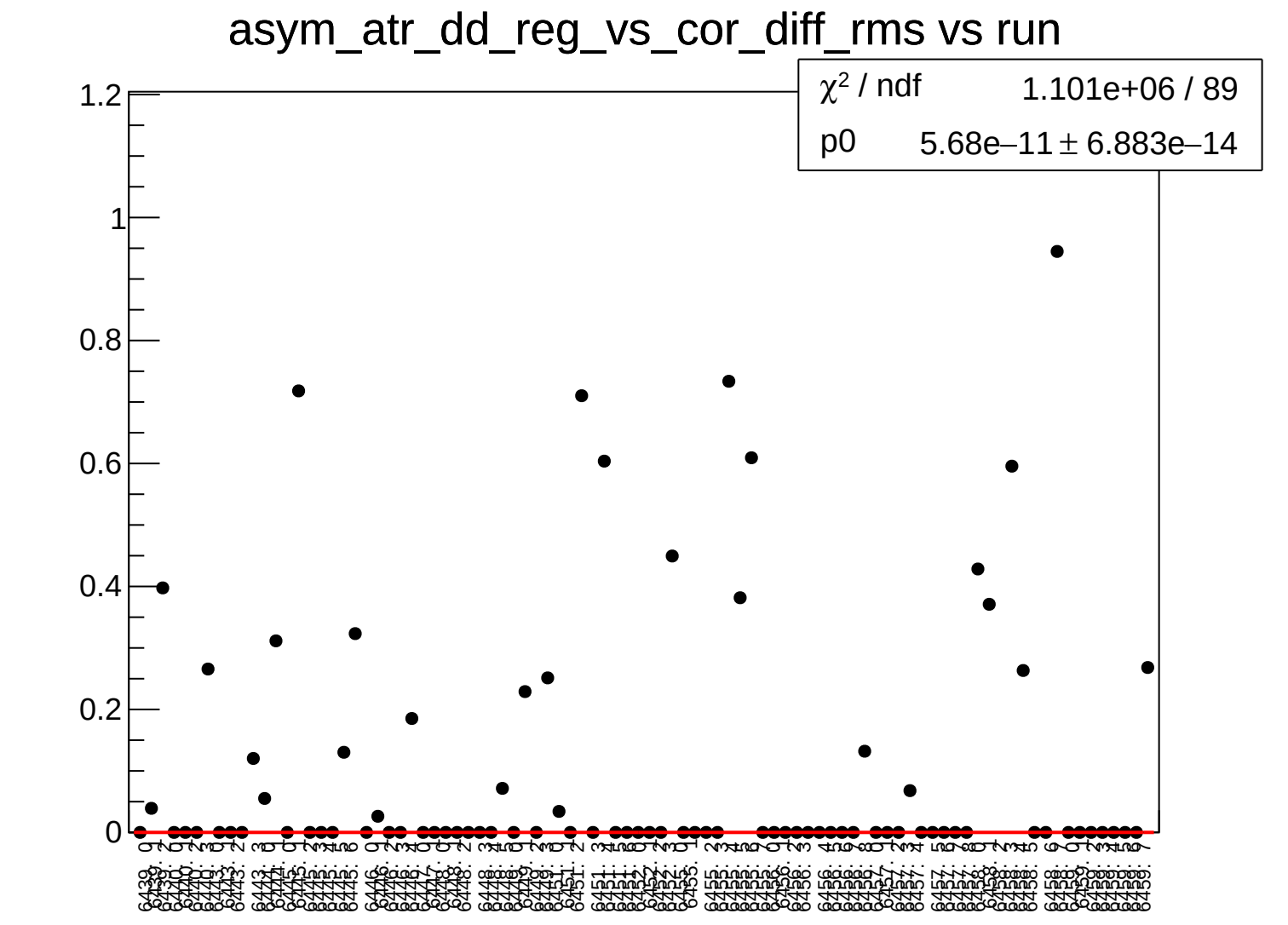

asym_atr_dd_mean vs run
×10^3
χ² / ndf 77.25 / 89
p0 −6236 ± 4174
100
50
0
−50
−100
−150
pull
Entries 90
Mean −264.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

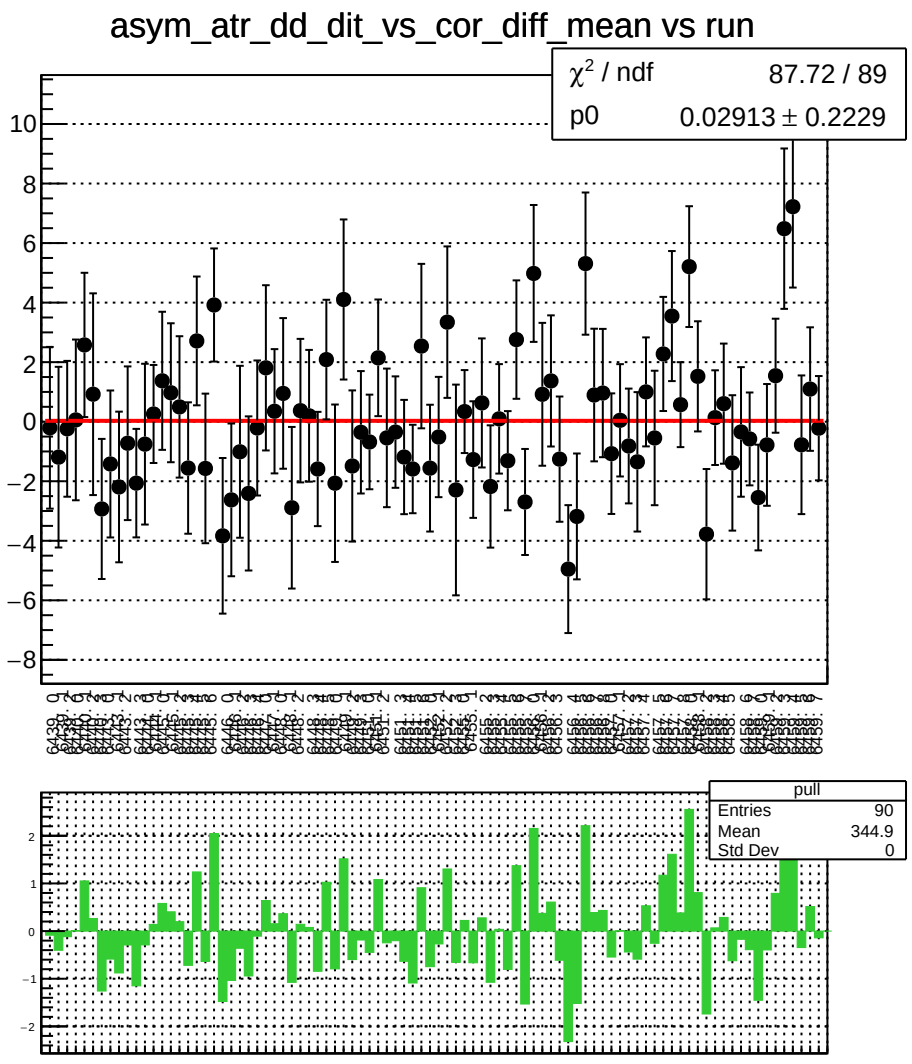

pull1D
Entries 90
Mean −0.009719
Std Dev 0.9264
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

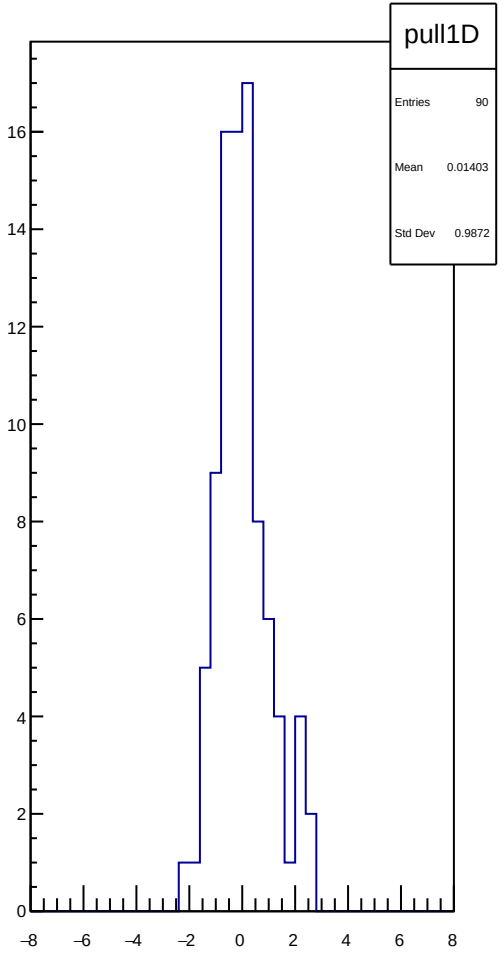

asym_atr_dd_rms vs run
χ² / ndf 1839 / 89
p0 3938 ± 2.951
4300
4200
4100
4000
3900
3800
3700
3600
3500

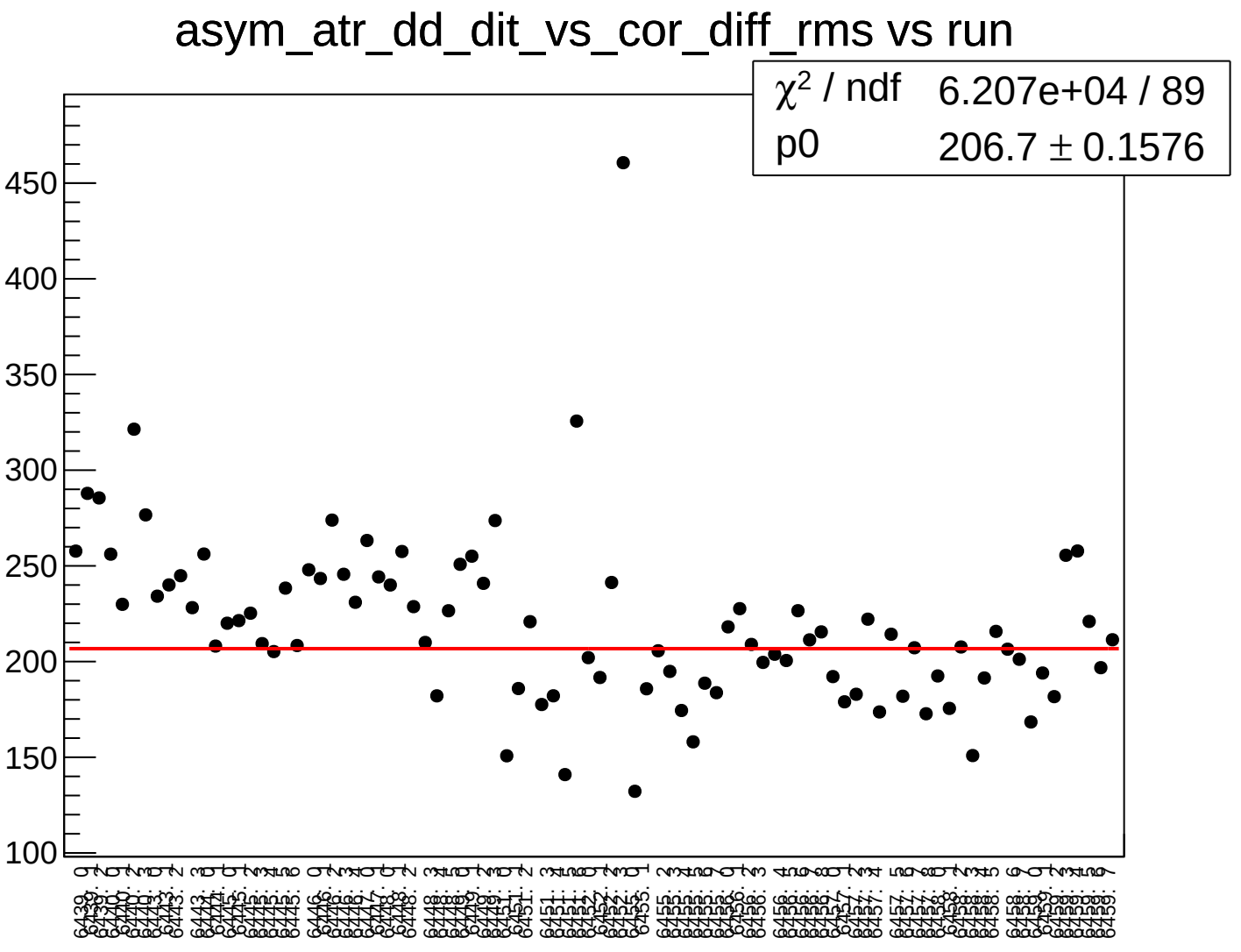

asym_atr_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 75.14 / 89
p0 2.398e−14 ± 9.734e−14
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 90
Mean 32.71
Std Dev 18.99
3
2
1
0
−1
−2

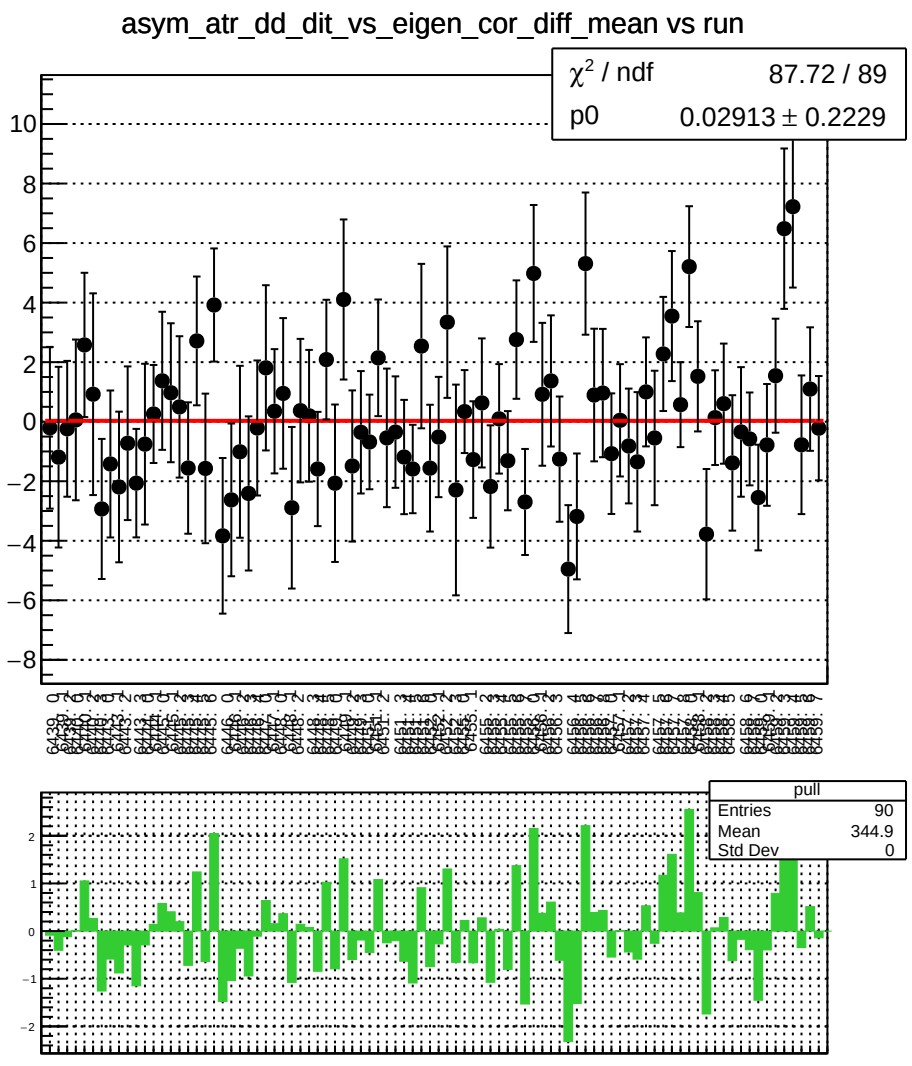

pull1D
Entries 90
Mean 0.07248
Std Dev 0.9109
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

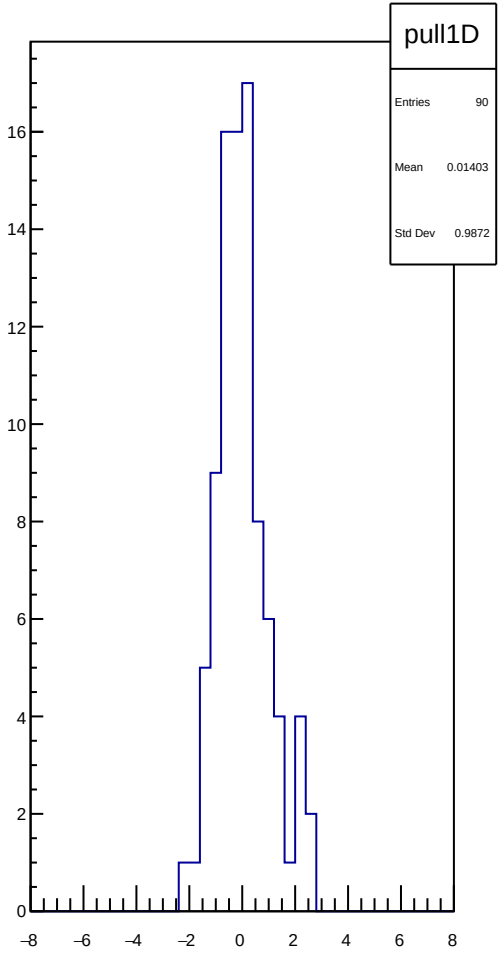

asym_atr_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.101e+06 / 89
p0 5.68e−11 ± 6.883e−14
1.2
1
0.8
0.6
0.4
0.2
0

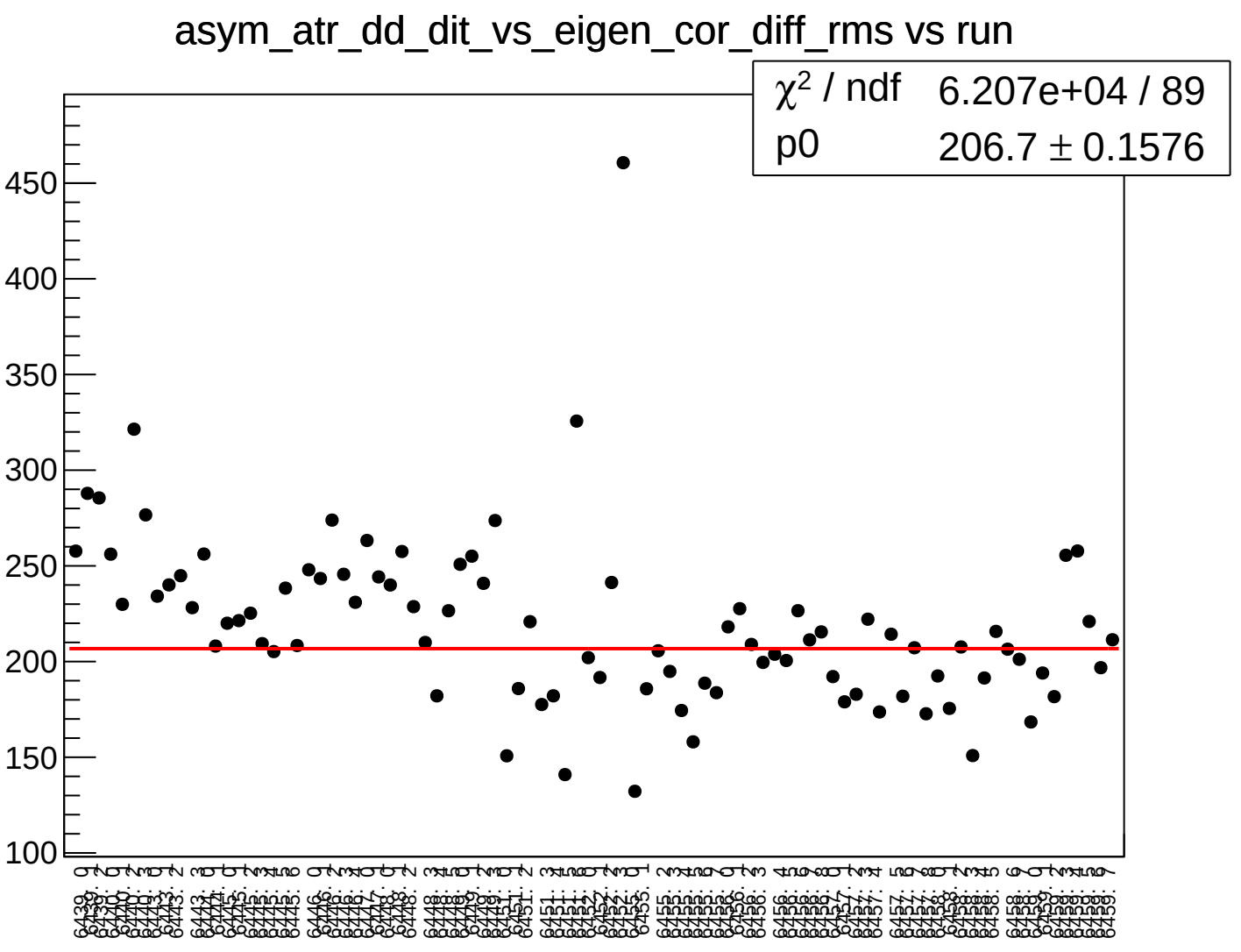

asym_atr_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 87.72 / 89
p0 0.02913 ± 0.2229
pull
Entries 90
Mean 344.9
Std Dev 0

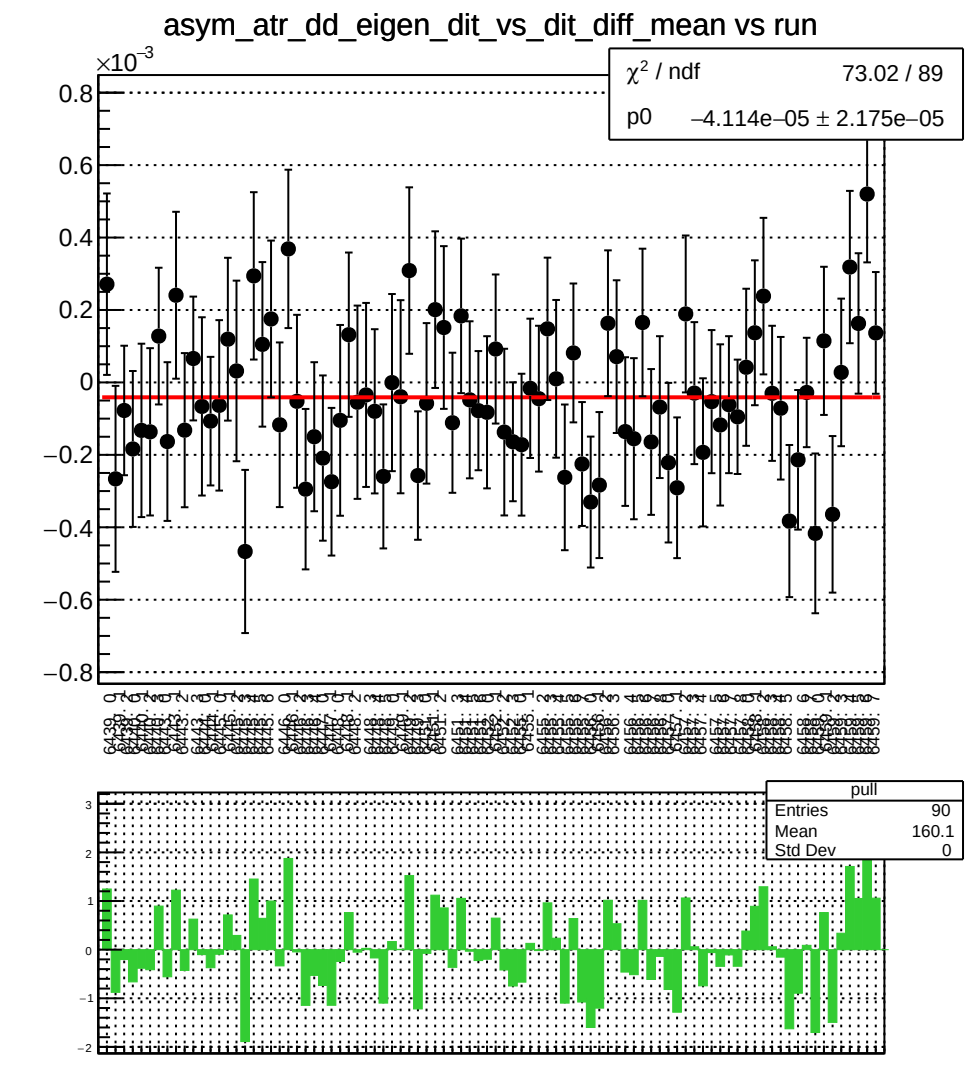

pull1D
Entries 90
Mean 0.01403
Std Dev 0.9872

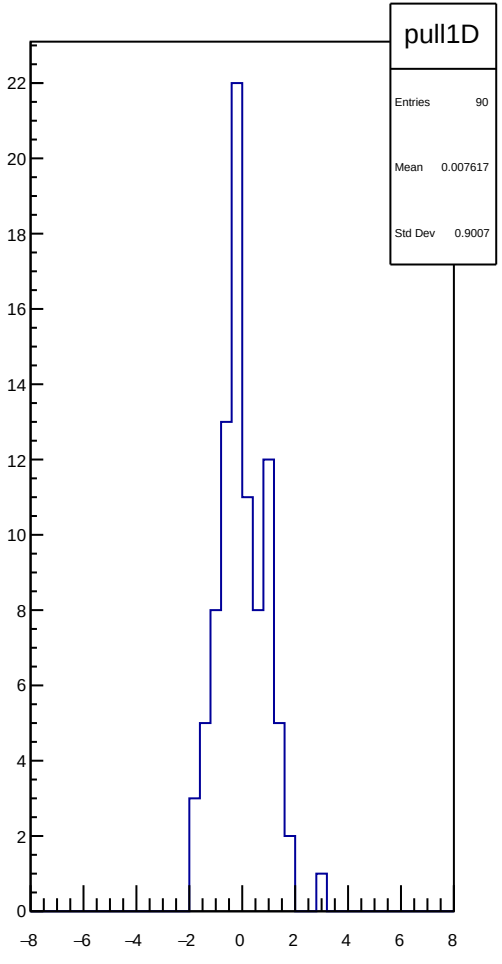

asym_atr_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.207e+04 / 89
p0 206.7 ± 0.1576
450
400
350
300
250
200
150
100

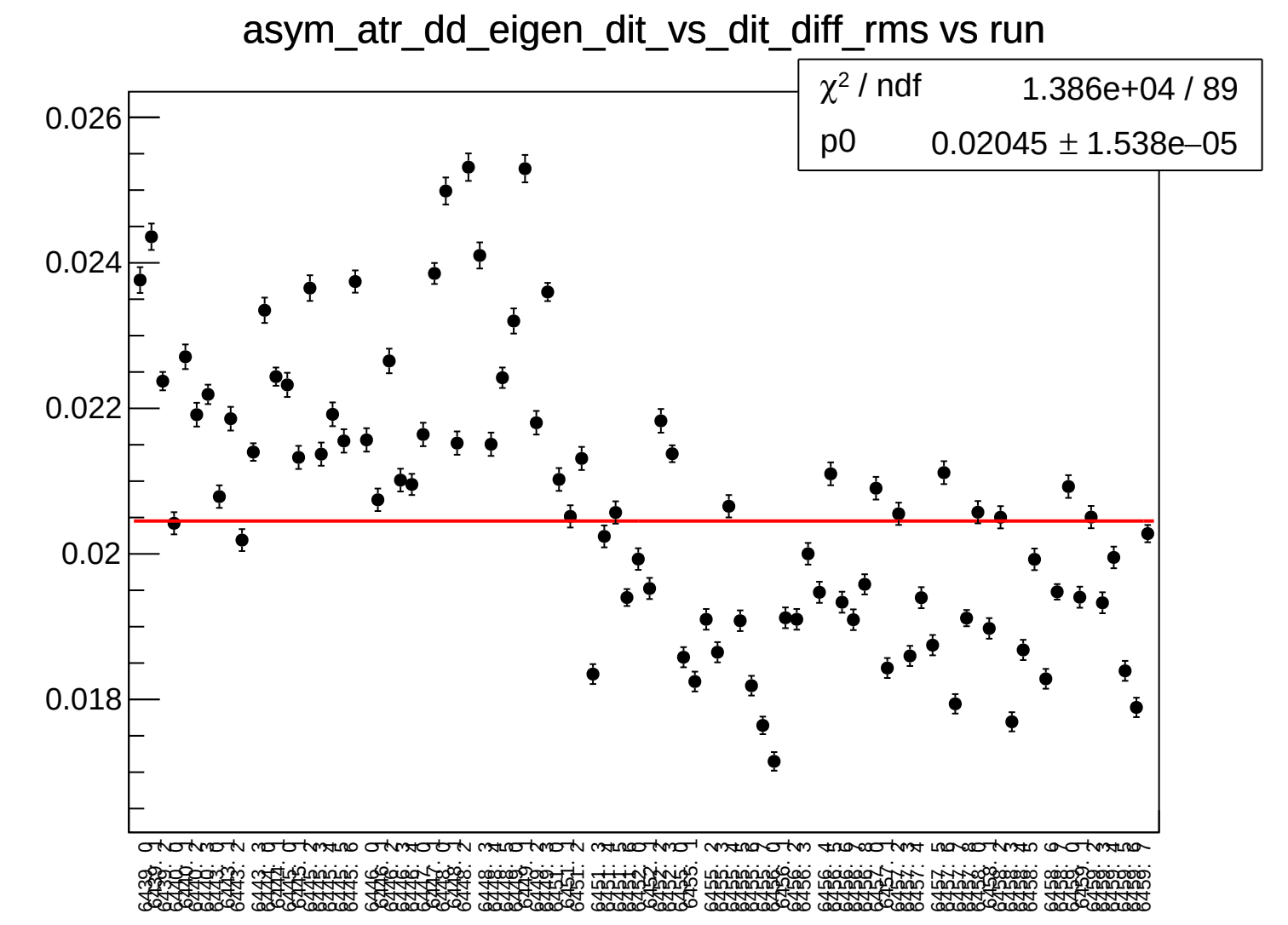

asym_atr_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.72 / 89
p0 0.02913 ± 0.2229
pull
Entries 90
Mean 344.9
Std Dev 0

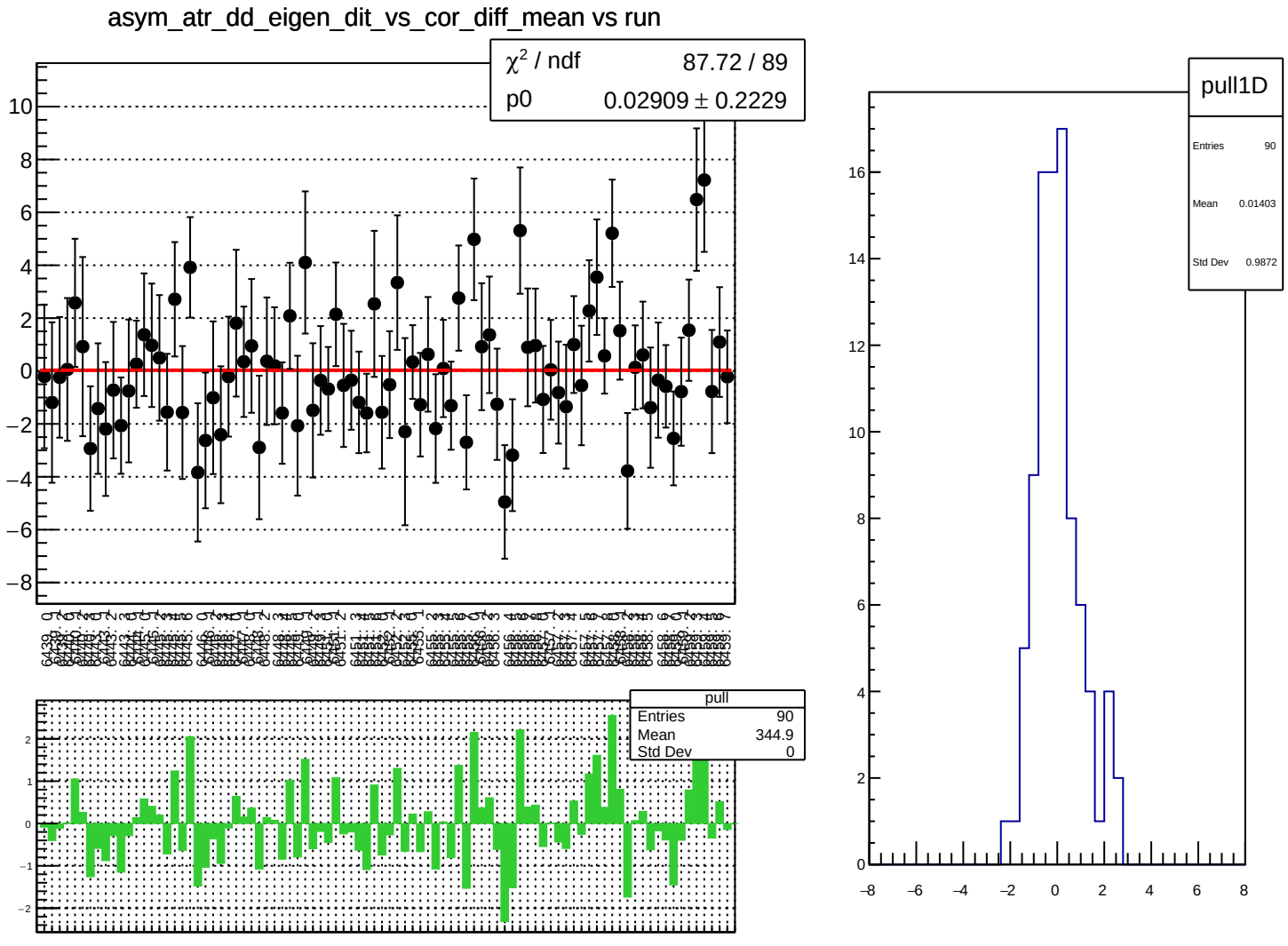

pull1D
Entries 90
Mean 0.01403
Std Dev 0.9872

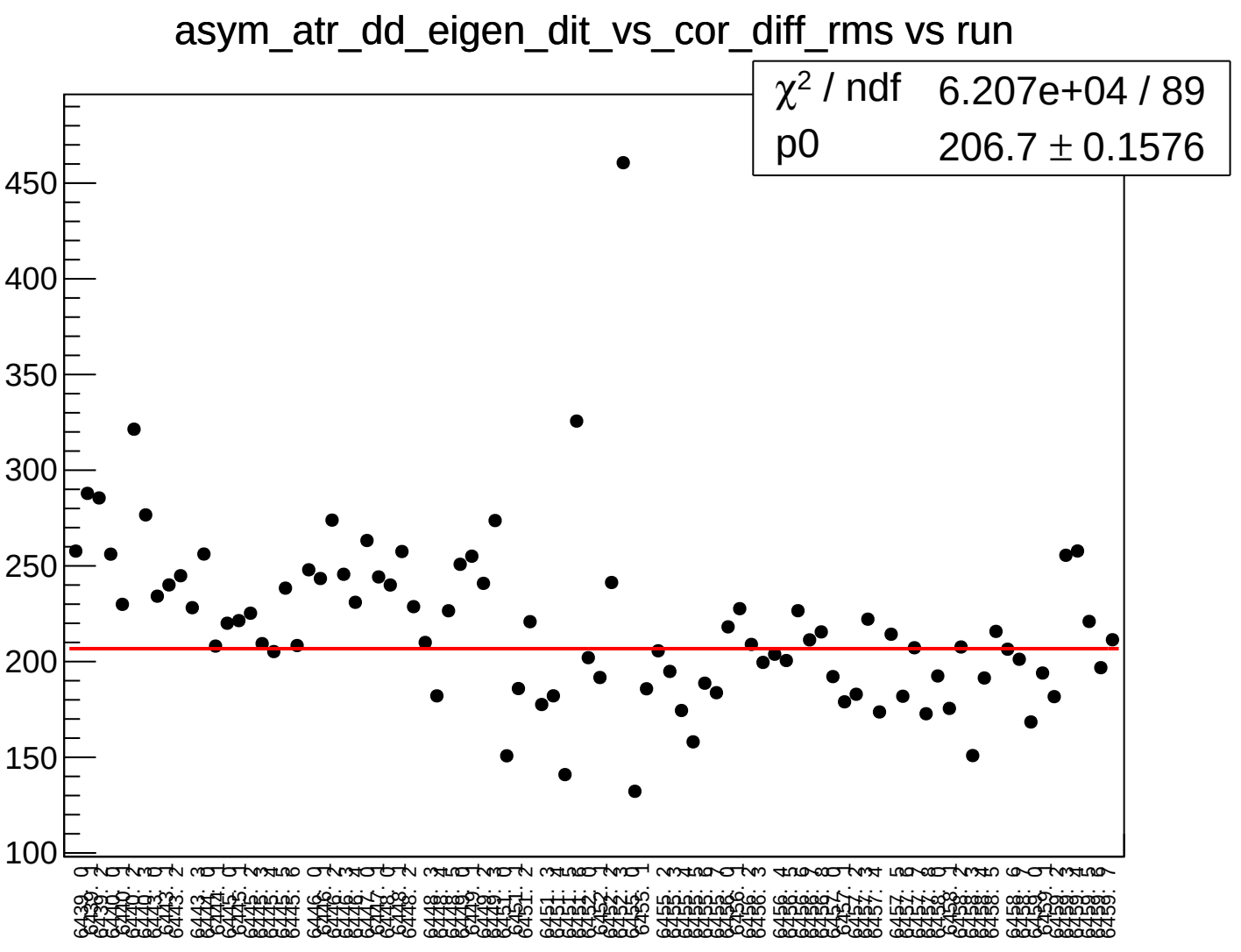

asym_atr_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.207e+04 / 89
p0 206.7 ± 0.1576
450
400
350
300
250
200
150
100

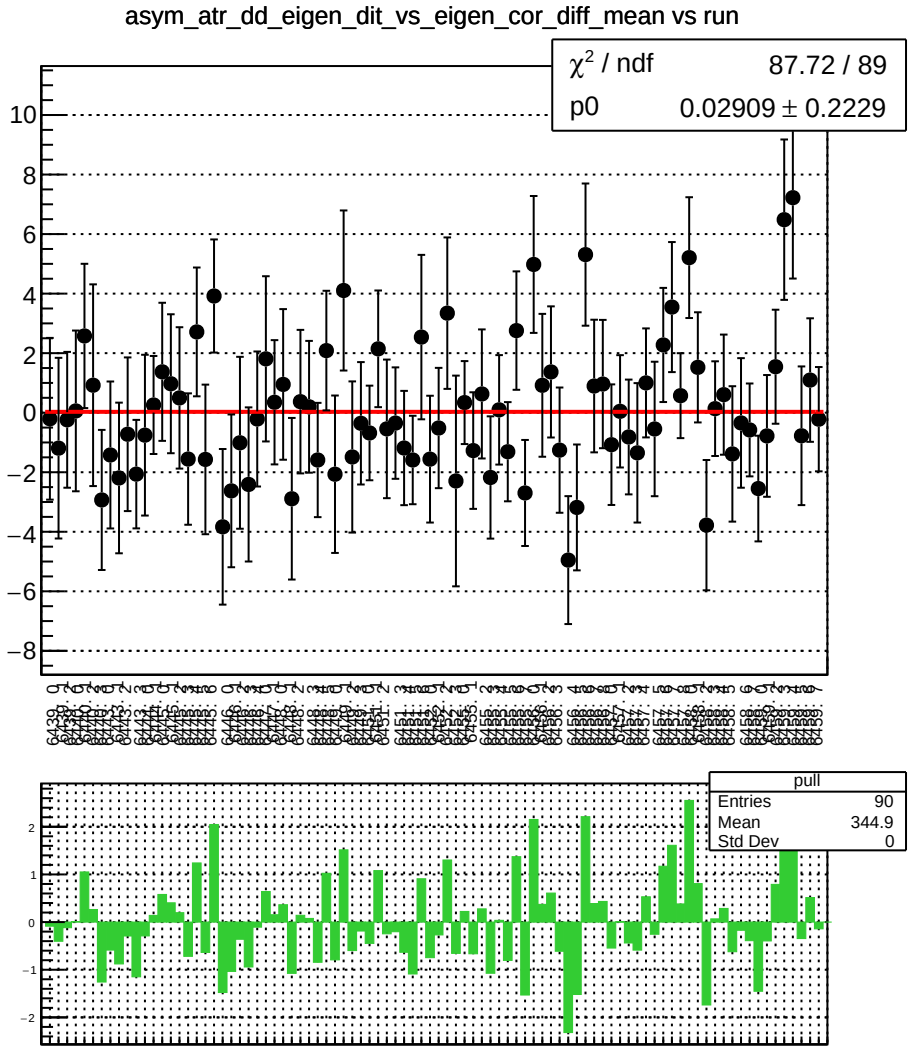

asym_atr_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.02 / 89
p0 −4.114e−05 ± 2.175e−05
pull
Entries 90
Mean 160.1
Std Dev 0

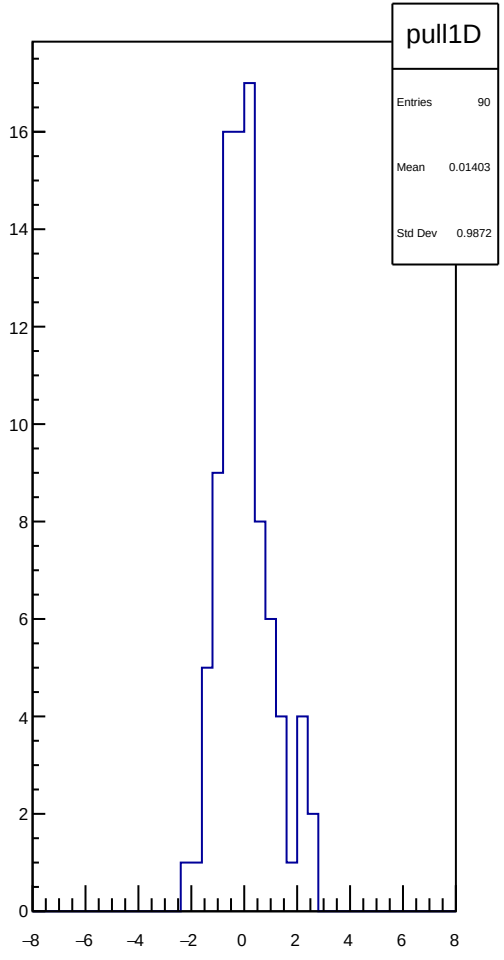

pull1D
Entries 90
Mean 0.007617
Std Dev 0.9007

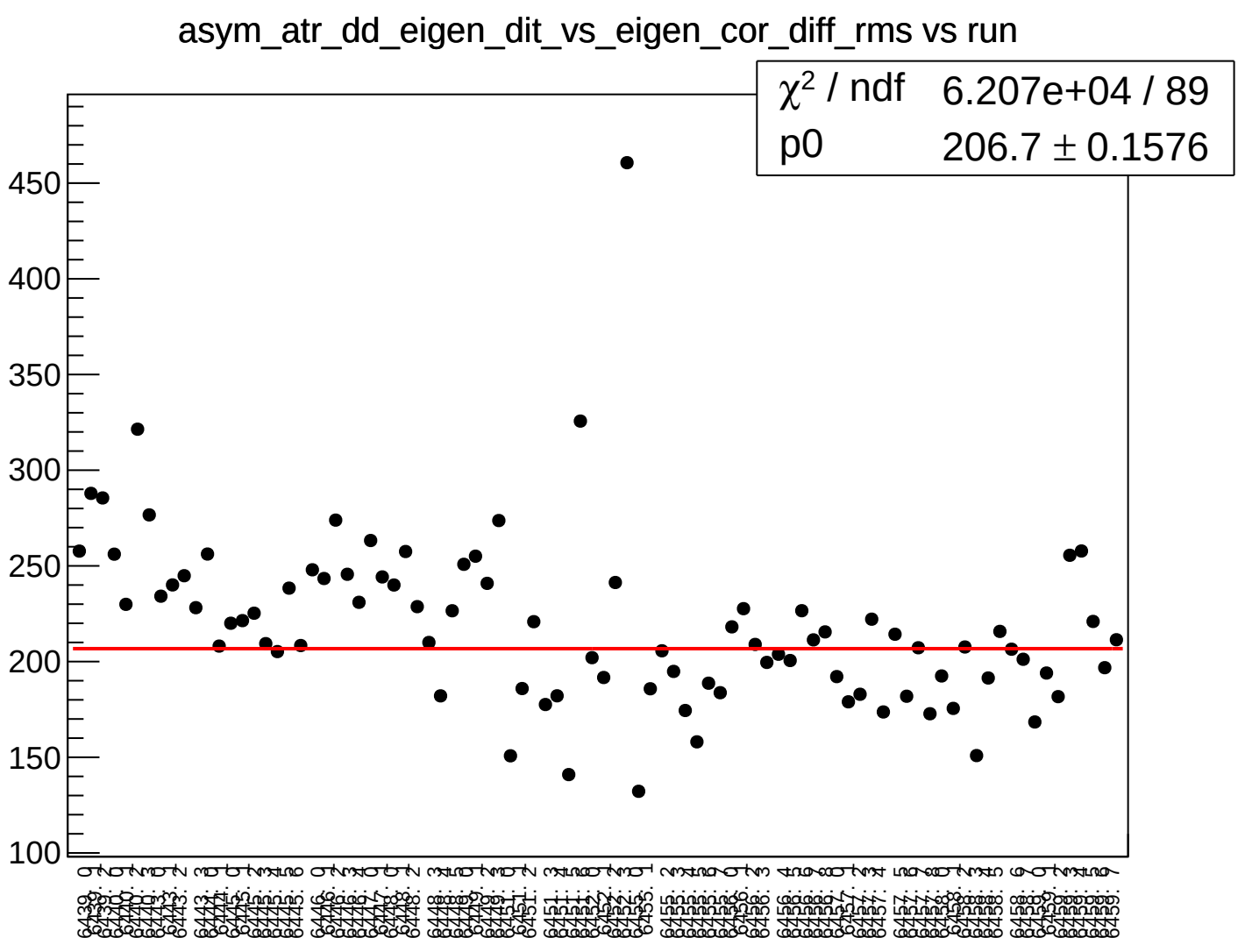

asym_atr_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.386e+04 / 89
p0 0.02045 ± 1.538e–05
0.026
0.024
0.022
0.02
0.018

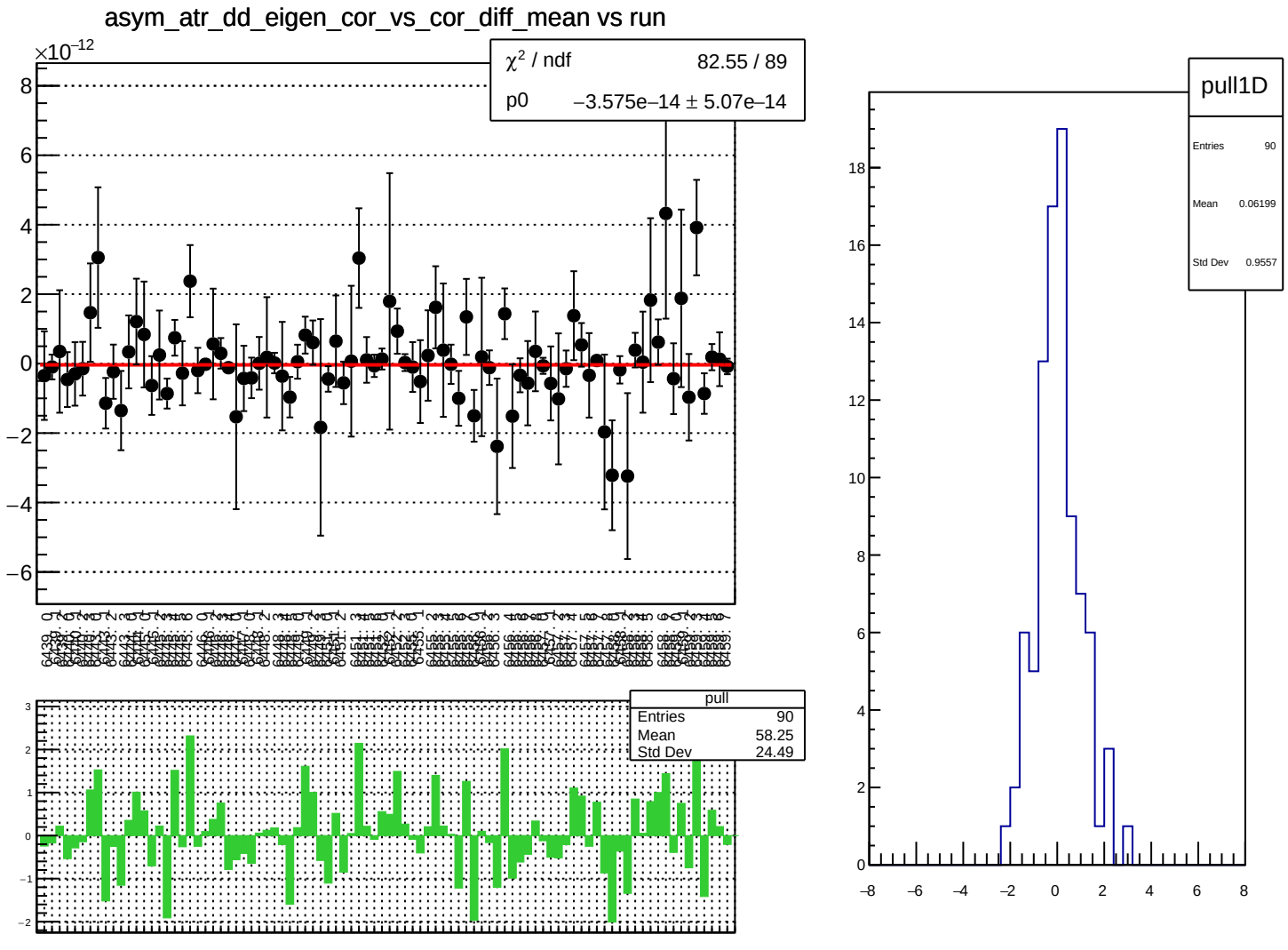

asym_atr_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.72 / 89
p0 0.02909 ± 0.2229
pull
Entries 90
Mean 344.9
Std Dev 0
pull1D
Entries 90
Mean 0.01403
Std Dev 0.9872

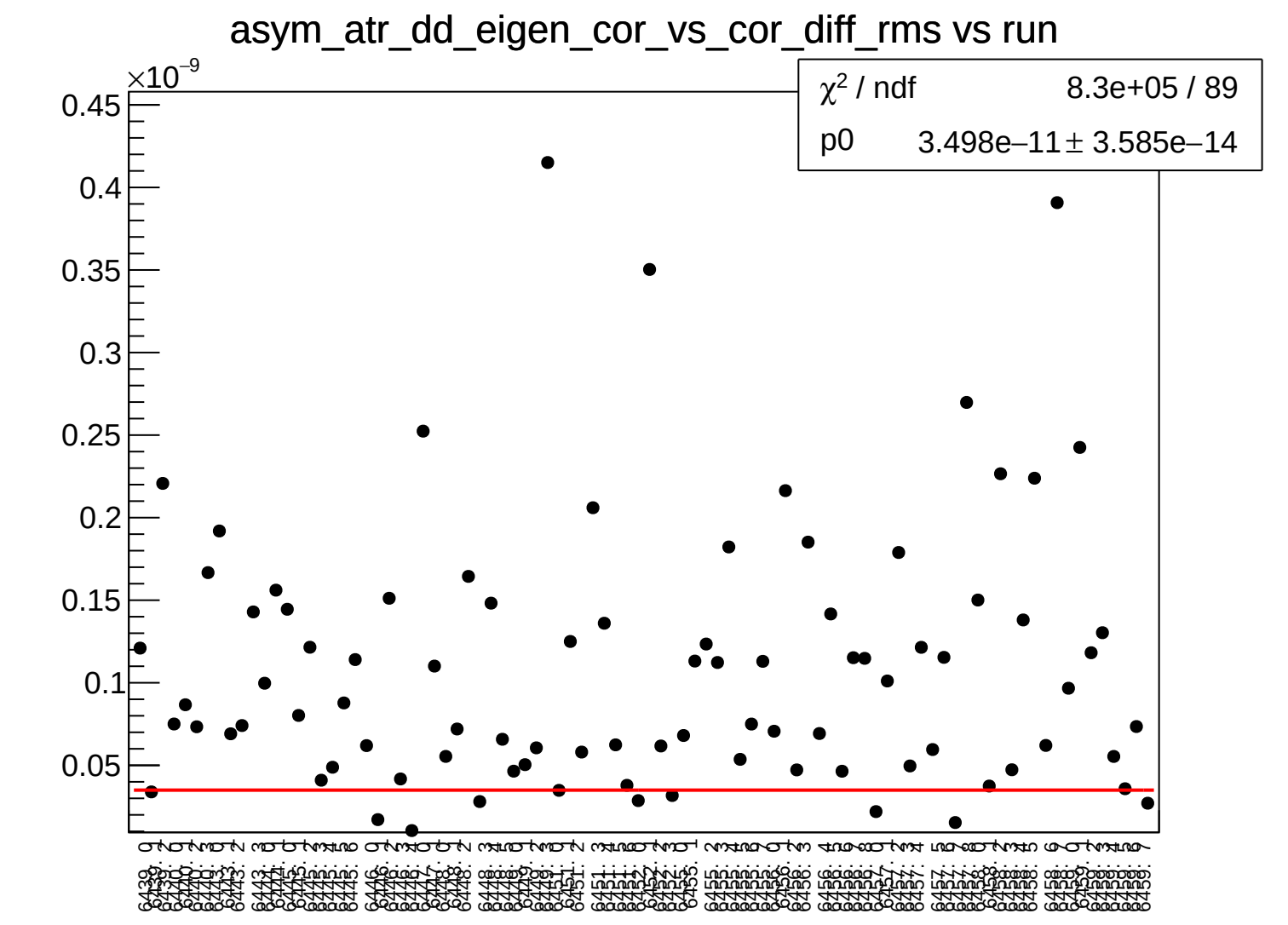

asym_atr_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.207e+04 / 89
p0 206.7 ± 0.1576
450
400
350
300
250
200
150
100

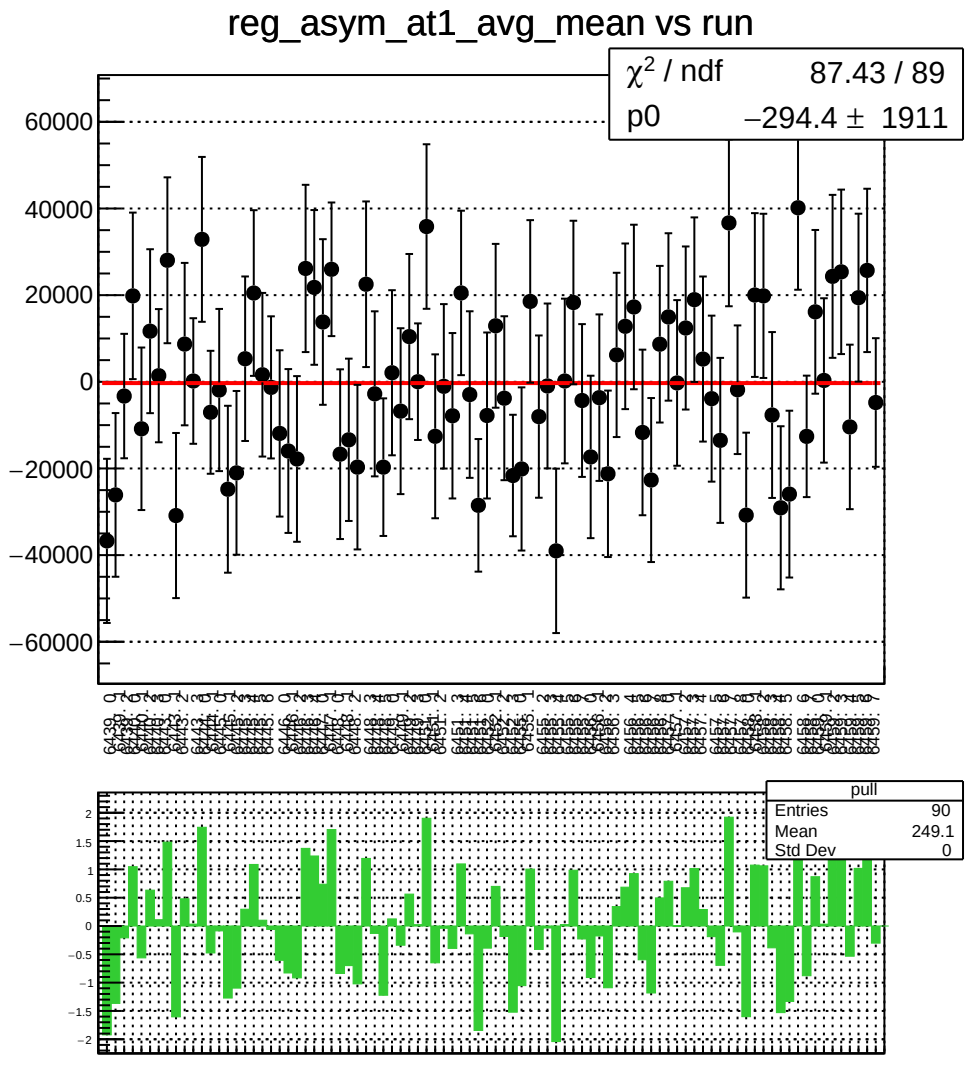

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.72 / 89
p0 0.02909 ± 0.2229
pull
Entries 90
Mean 344.9
Std Dev 0

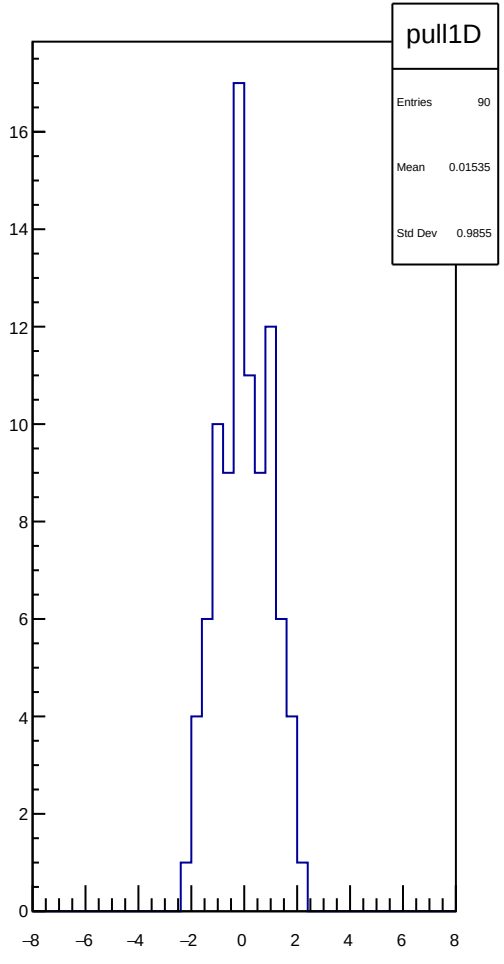

pull1D
Entries 90
Mean 0.01403
Std Dev 0.9872

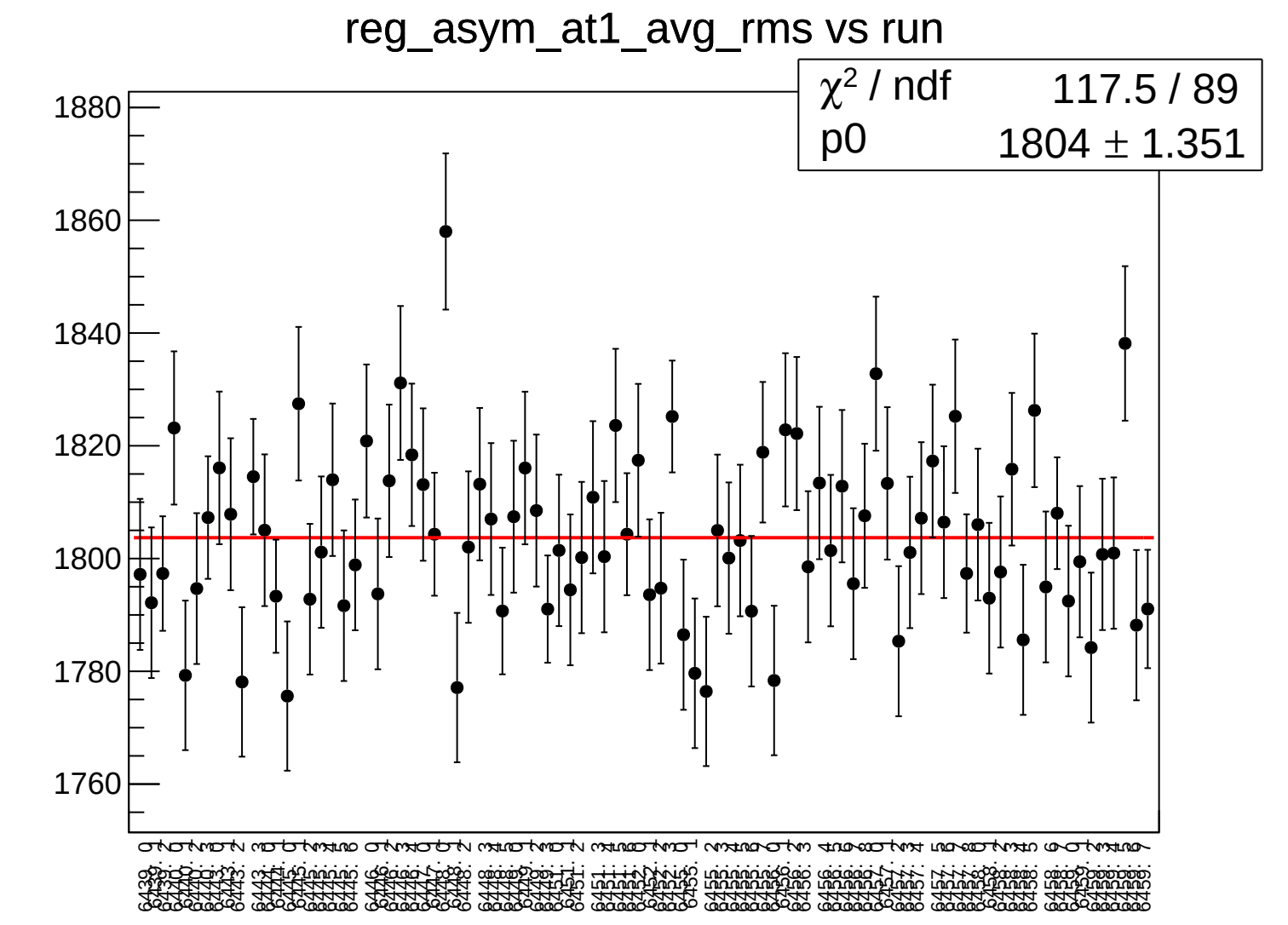

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.207e+04 / 89
p0 206.7 ± 0.1576
450
400
350
300
250
200
150
100

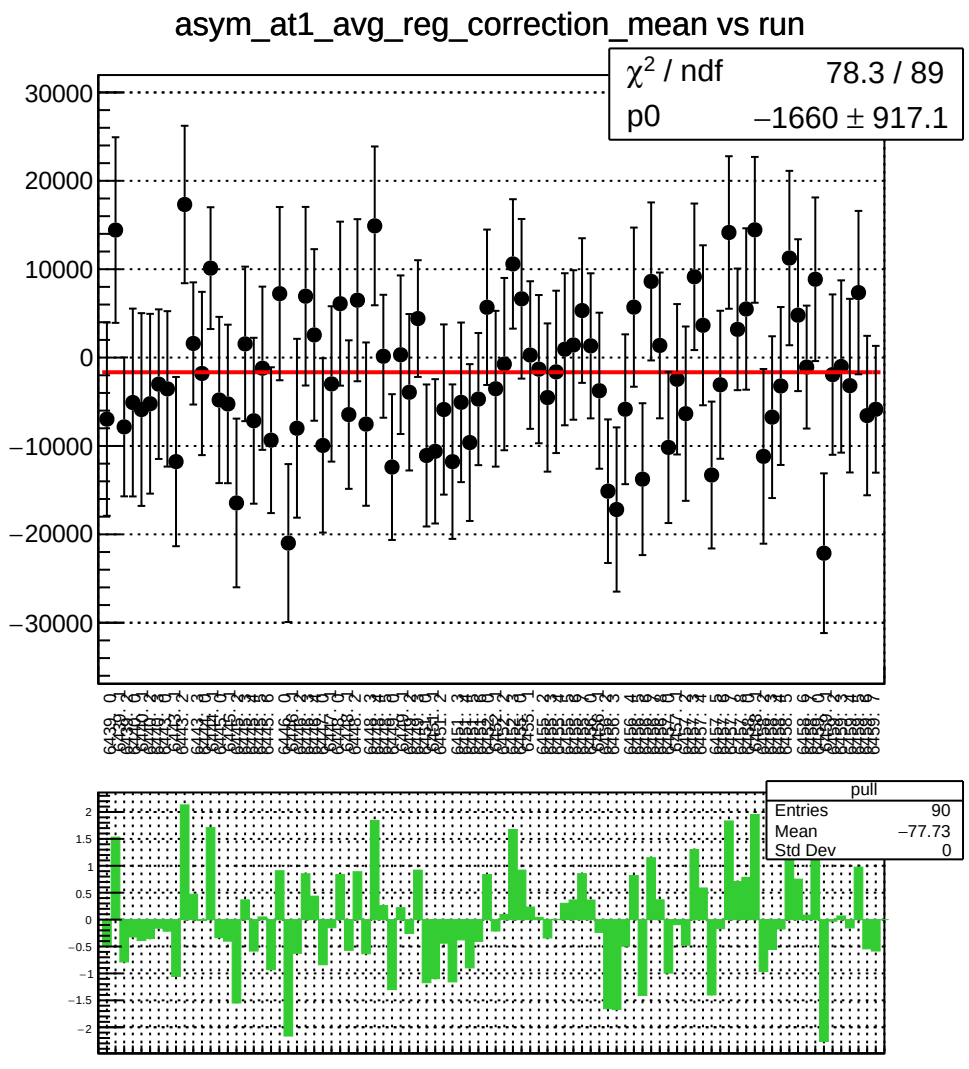

asym_atr_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.55 / 89
p0 −3.575e−14 ± 5.07e−14
pull
Entries 90
Mean 58.25
Std Dev 24.49
pull1D
Entries 90
Mean 0.06199
Std Dev 0.9557

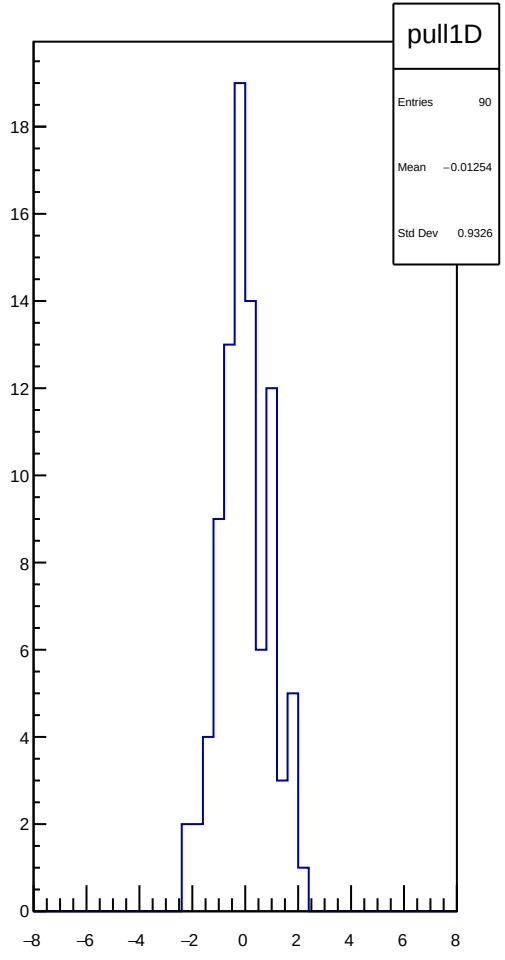

asym_atr_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.3e+05 / 89
p0 3.498e−11 ± 3.585e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

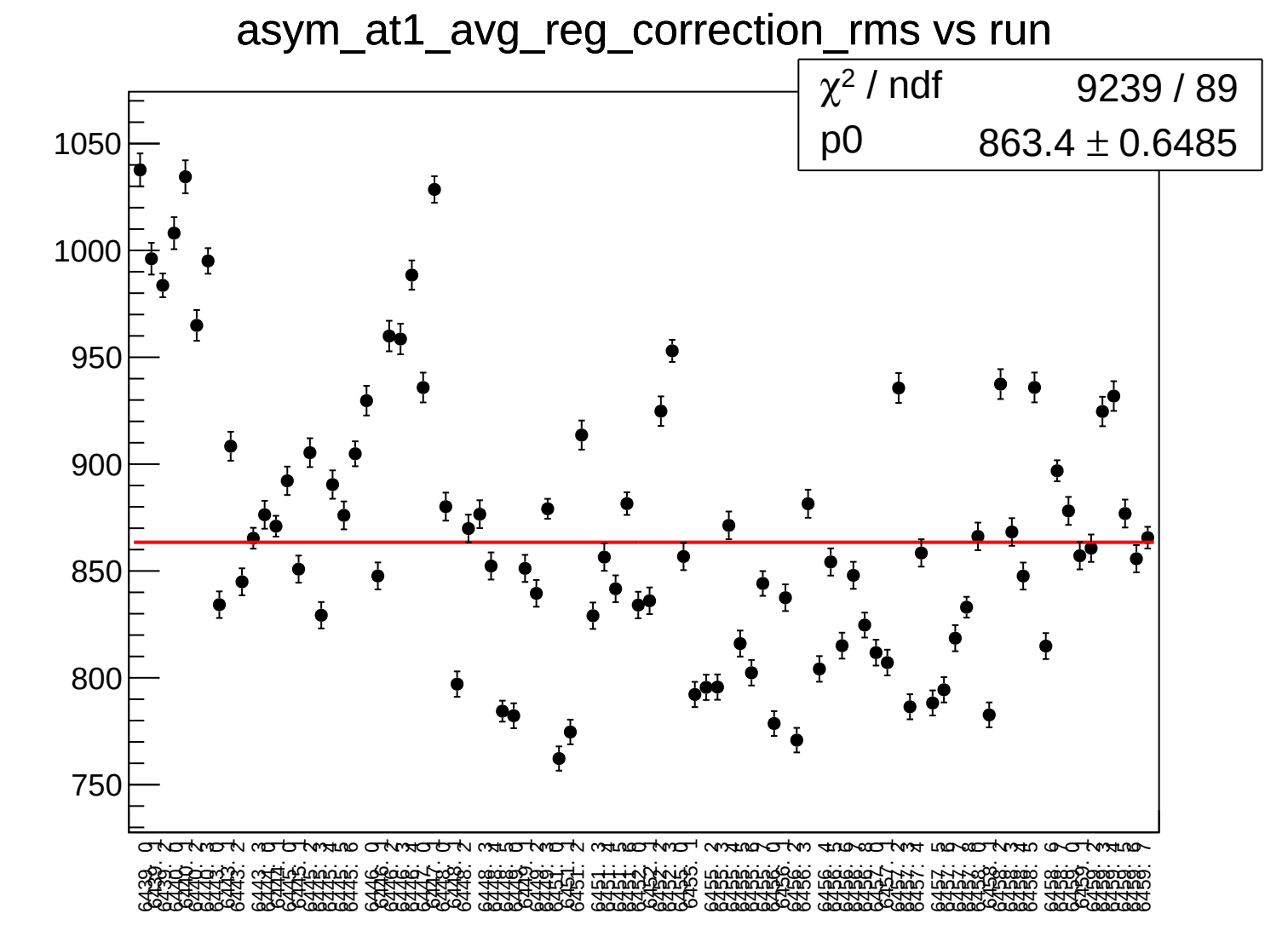

reg_asym_at1_avg_mean vs run
χ² / ndf 87.43 / 89
p0 −294.4 ± 1911
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 249.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

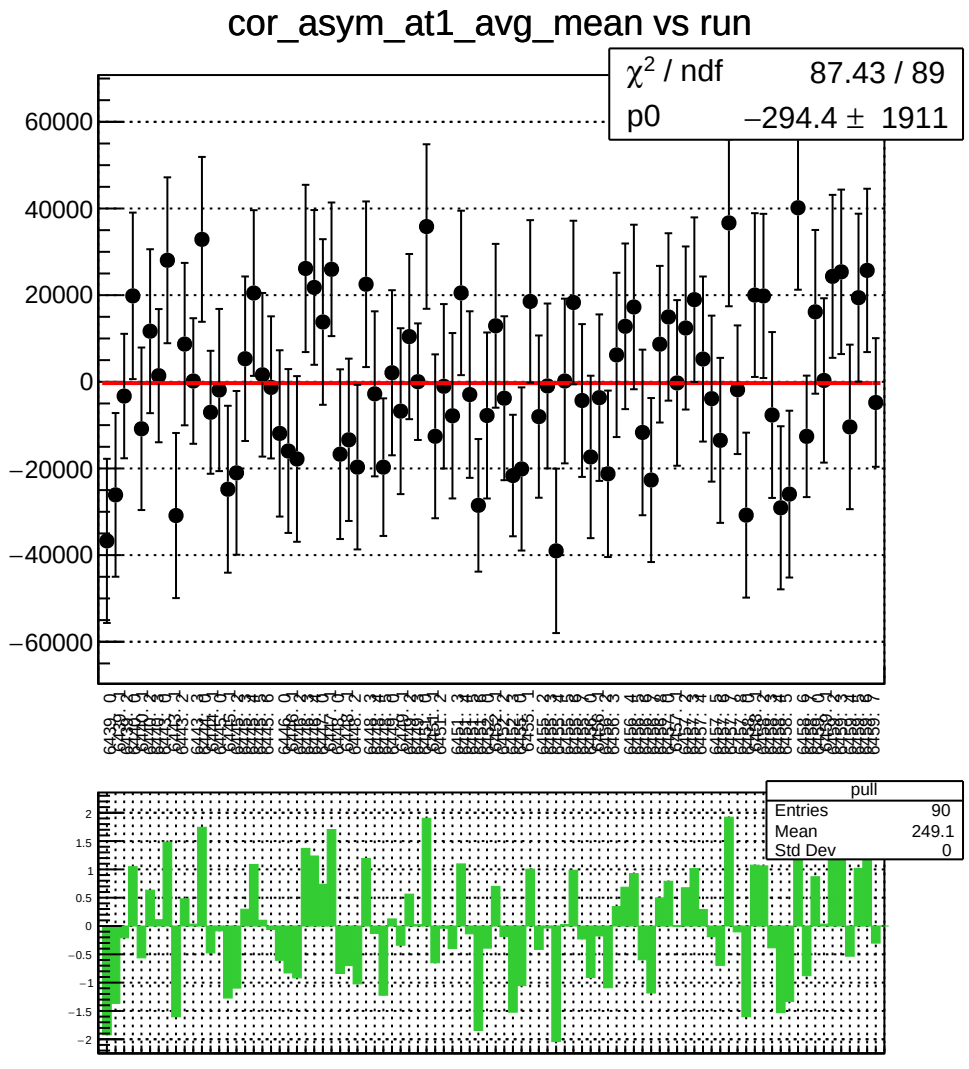

pull1D
Entries 90
Mean 0.01535
Std Dev 0.9855
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

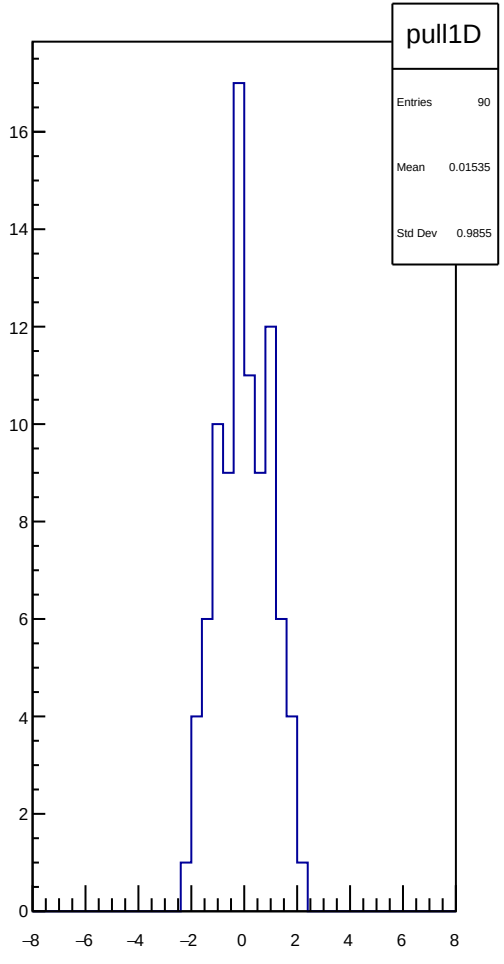

reg_asym_at1_avg_rms vs run
χ^2 / ndf 117.5 / 89
p0 1804 ± 1.351
1880
1860
1840
1820
1800
1780
1760

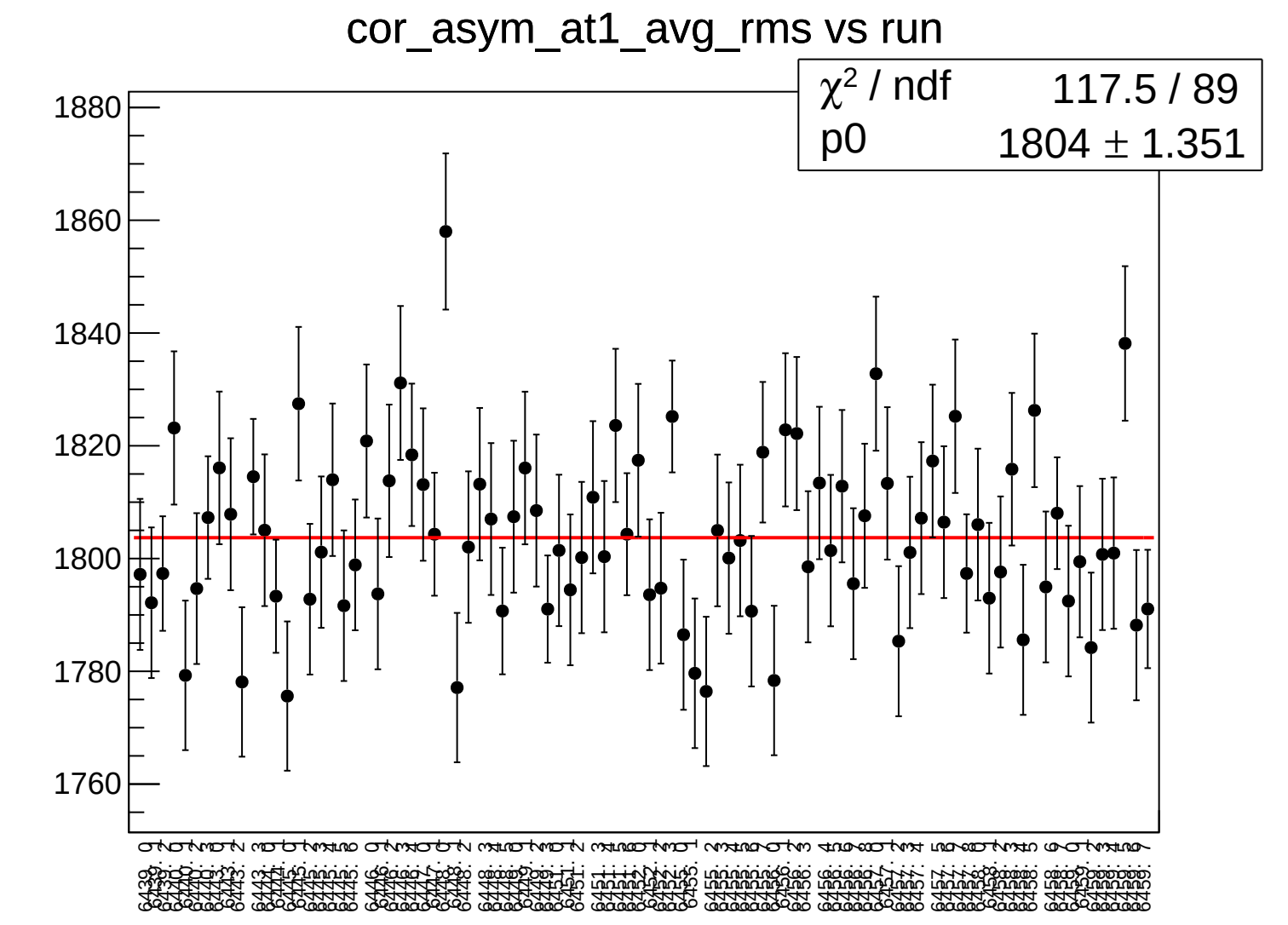

asym_at1_avg_reg_correction_mean vs run
χ² / ndf 78.3 / 89
p0 −1660 ± 917.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean −77.73
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

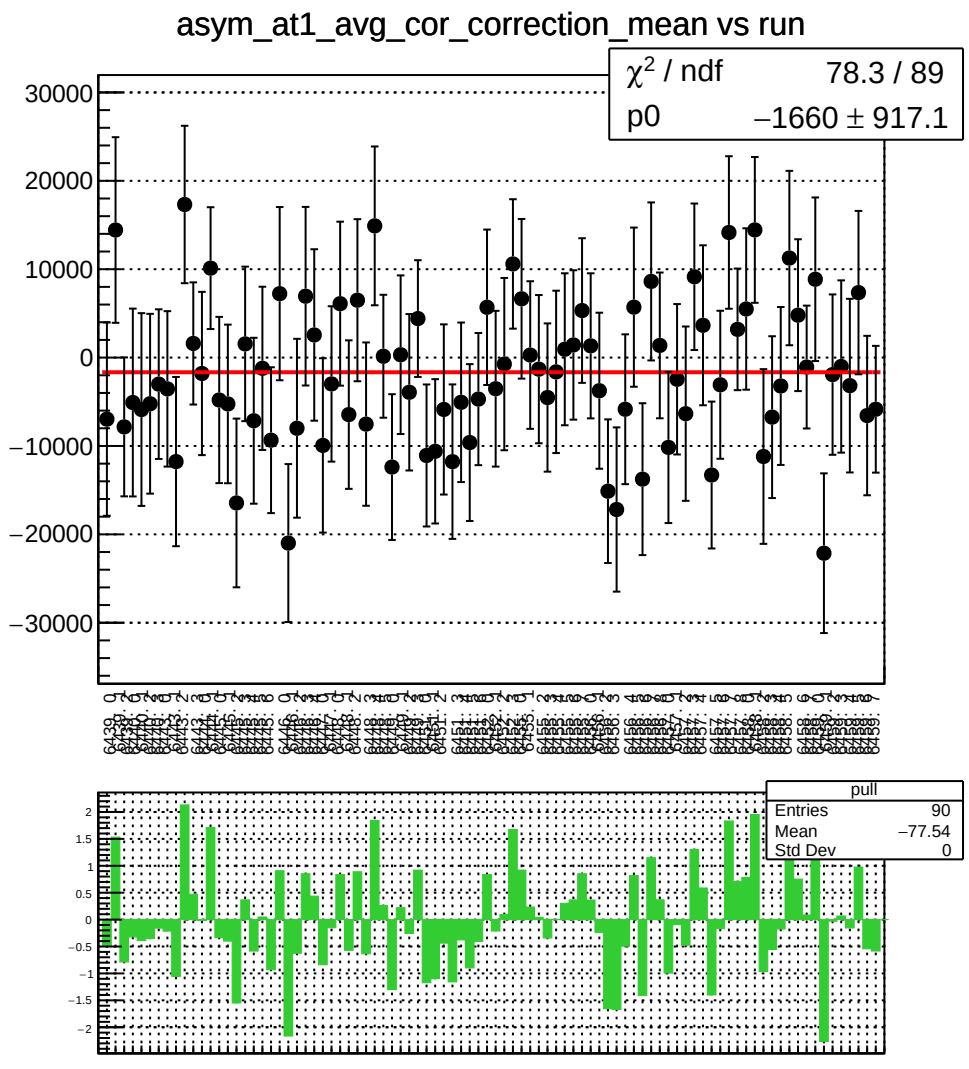

pull1D
Entries 90
Mean −0.01254
Std Dev 0.9326
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

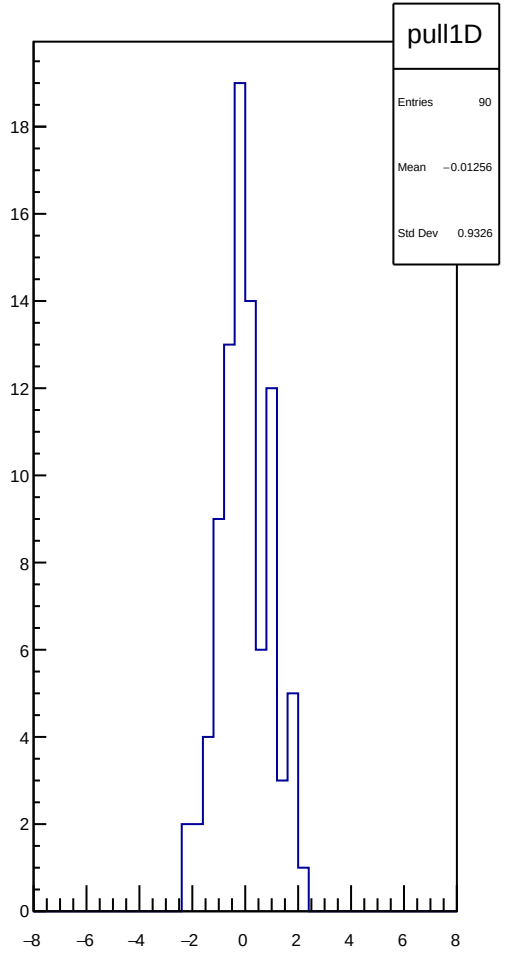

asym_at1_avg_reg_correction_rms vs run
χ² / ndf 9239 / 89
p0 863.4 ± 0.6485
1050
1000
950
900
850
800
750

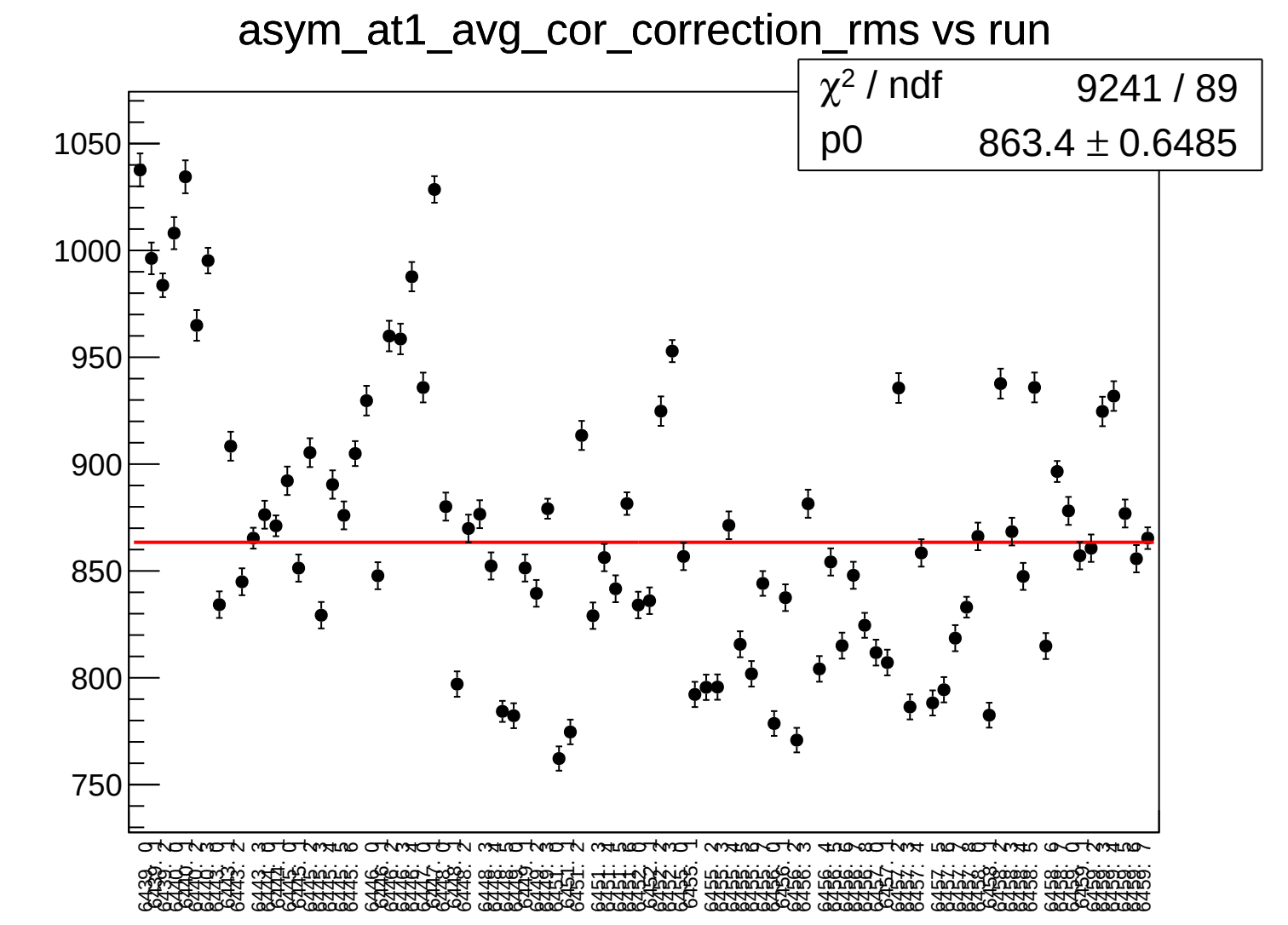

cor_asym_at1_avg_mean vs run
χ² / ndf 87.43 / 89
p0 −294.4 ± 1911
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 249.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

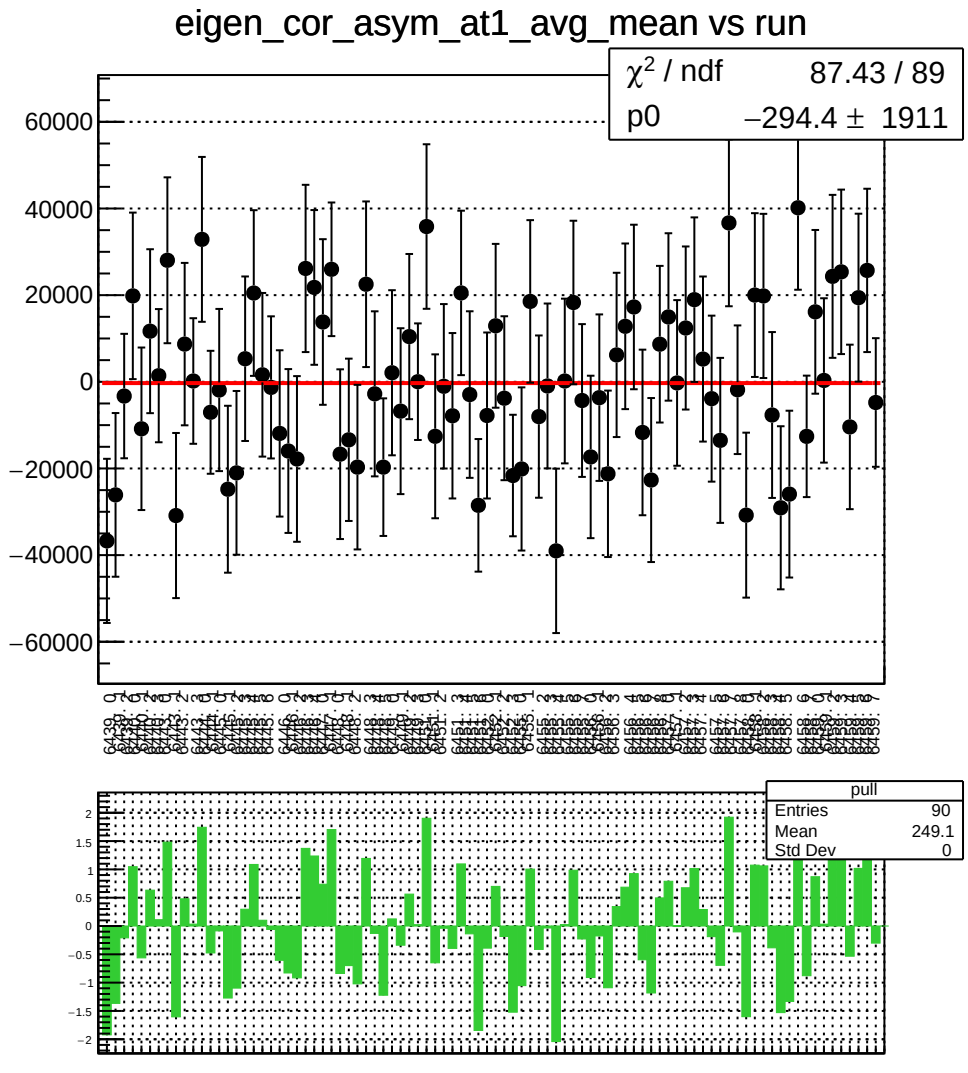

pull1D
Entries 90
Mean 0.01535
Std Dev 0.9855
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

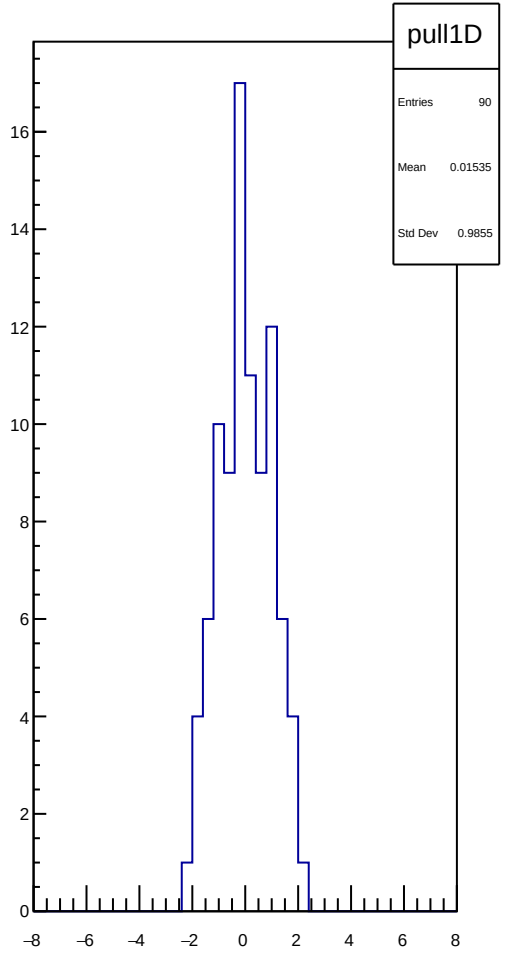

cor_asym_at1_avg_rms vs run
χ^2 / ndf 117.5 / 89
p0 1804 ± 1.351
1880
1860
1840
1820
1800
1780
1760


asym_at1_avg_cor_correction_mean vs run
χ² / ndf 78.3 / 89
p0 −1660 ± 917.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean −77.54
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 90
Mean −0.01256
Std Dev 0.9326
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_at1_avg_cor_correction_rms vs run
χ² / ndf 9241 / 89
p0 863.4 ± 0.6485
1050
1000
950
900
850
800
750


eigen_cor_asym_at1_avg_mean vs run
χ² / ndf 87.43 / 89
p0 −294.4 ± 1911
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 249.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 90
Mean 0.01535
Std Dev 0.9855
16
14
12
10
8
6
4
2
0
−8
−6
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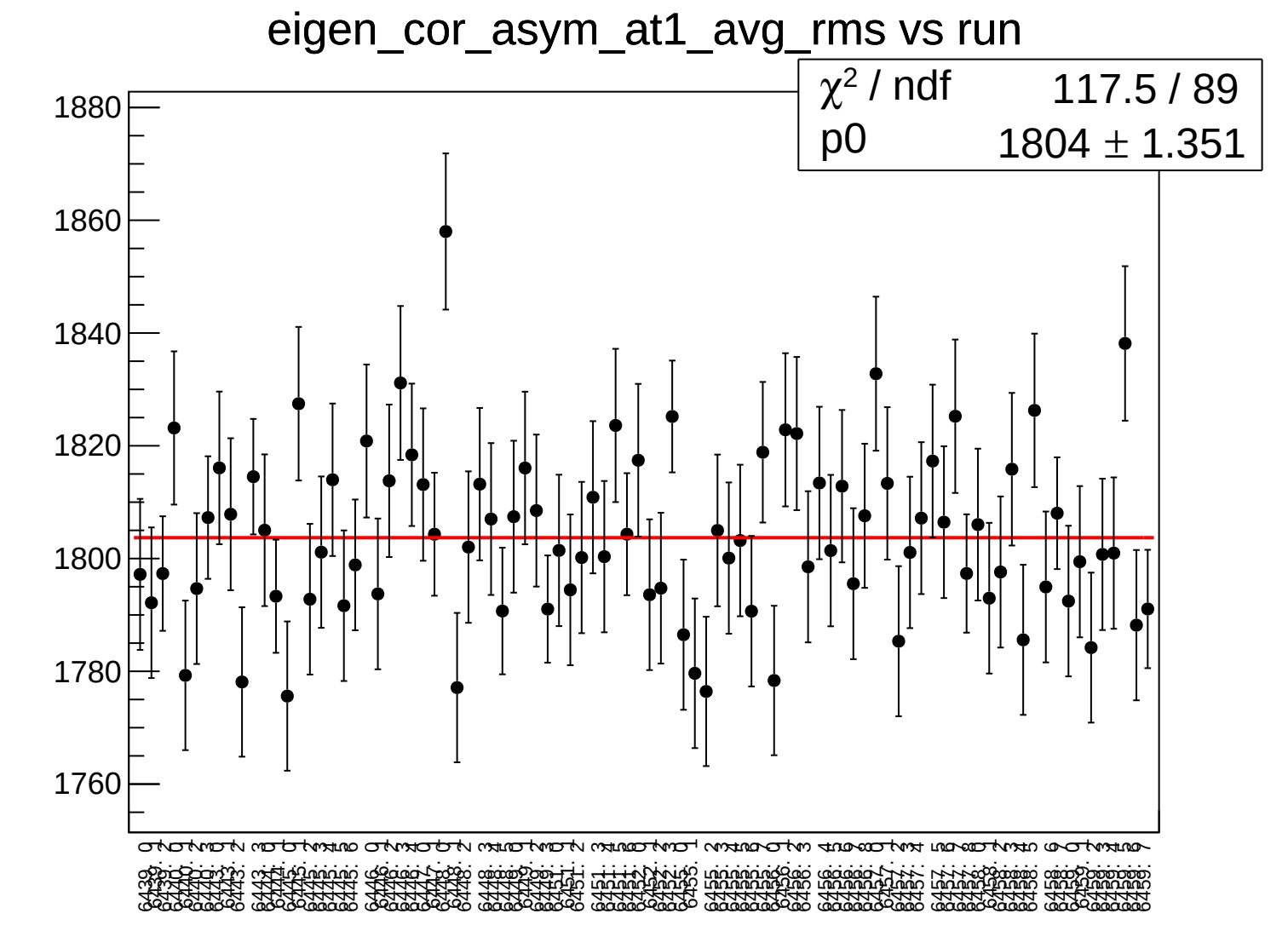
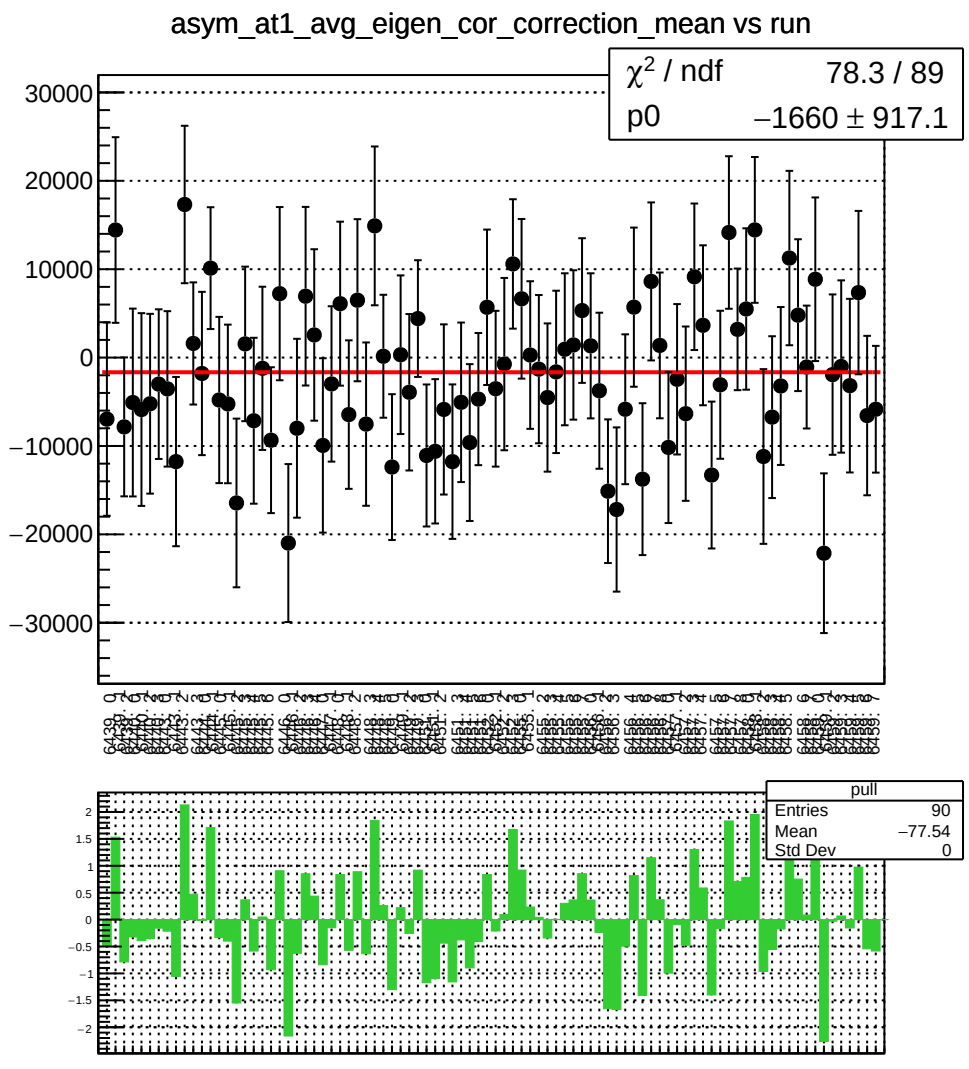
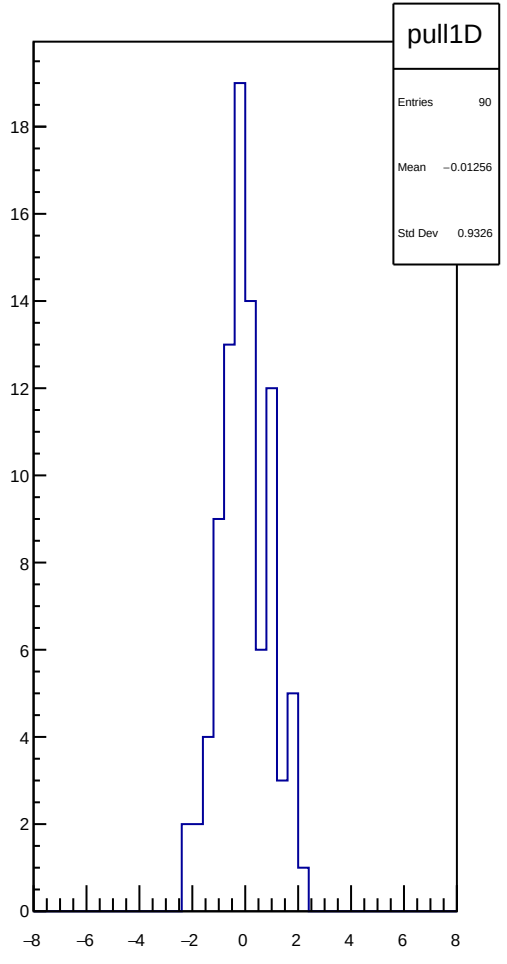
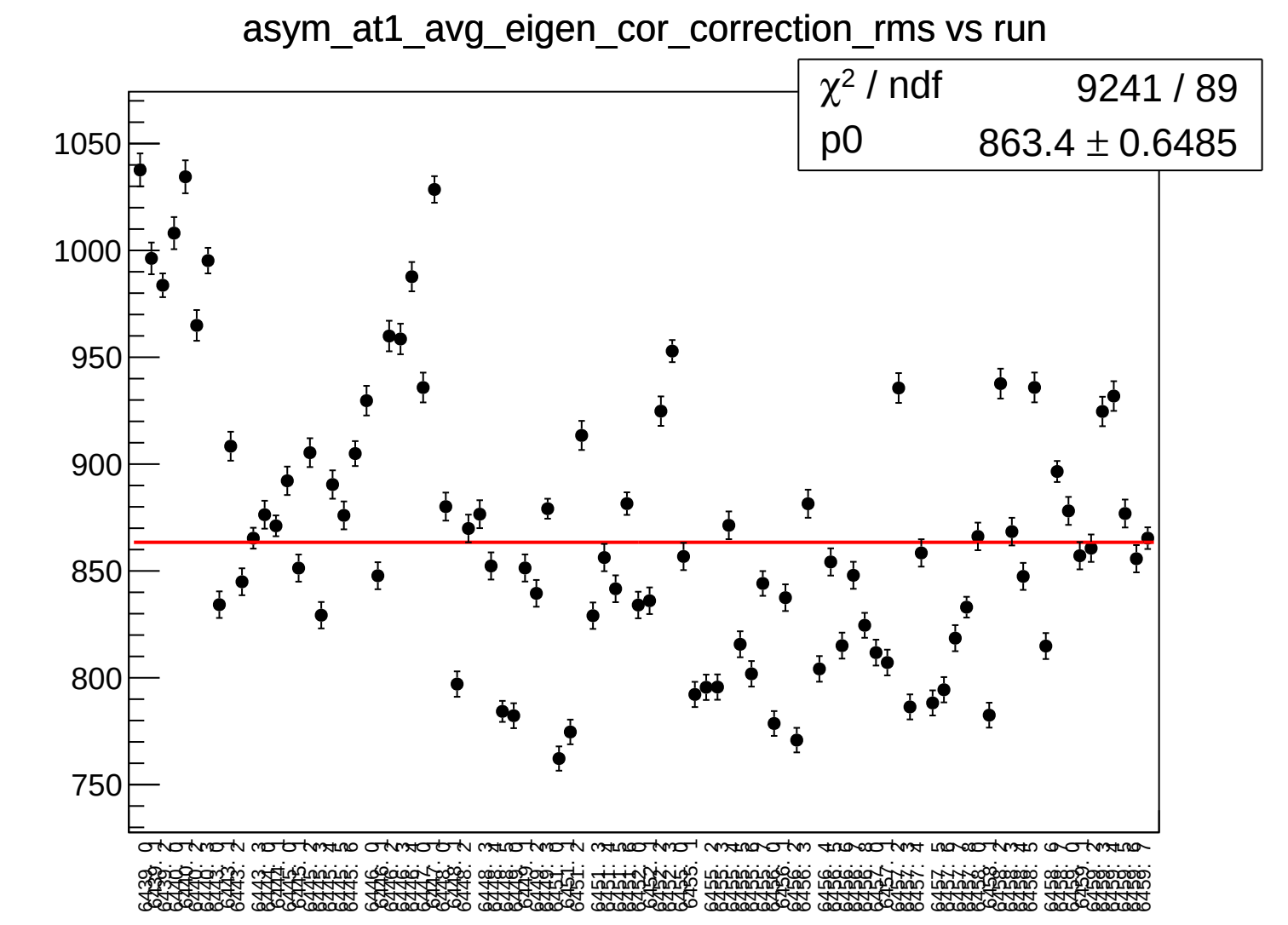
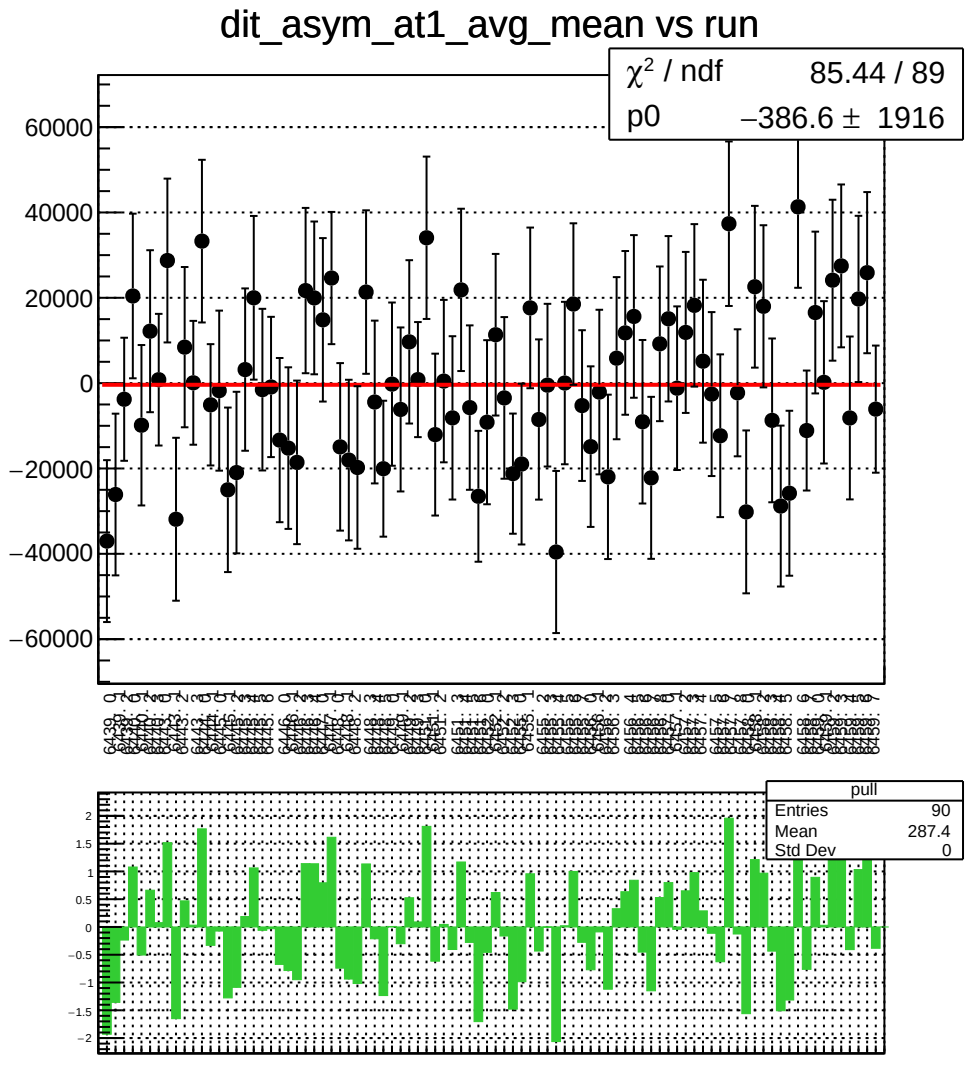
2
4
6
8

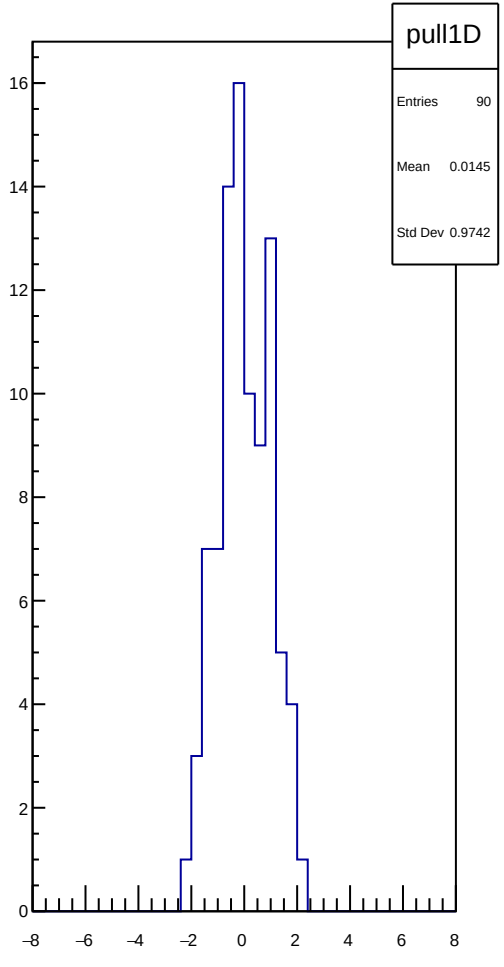

eigen_cor_asym_at1_avg_rms vs run
χ² / ndf 117.5 / 89
p0 1804 ± 1.351
1880
1860
1840
1820
1800
1780
1760

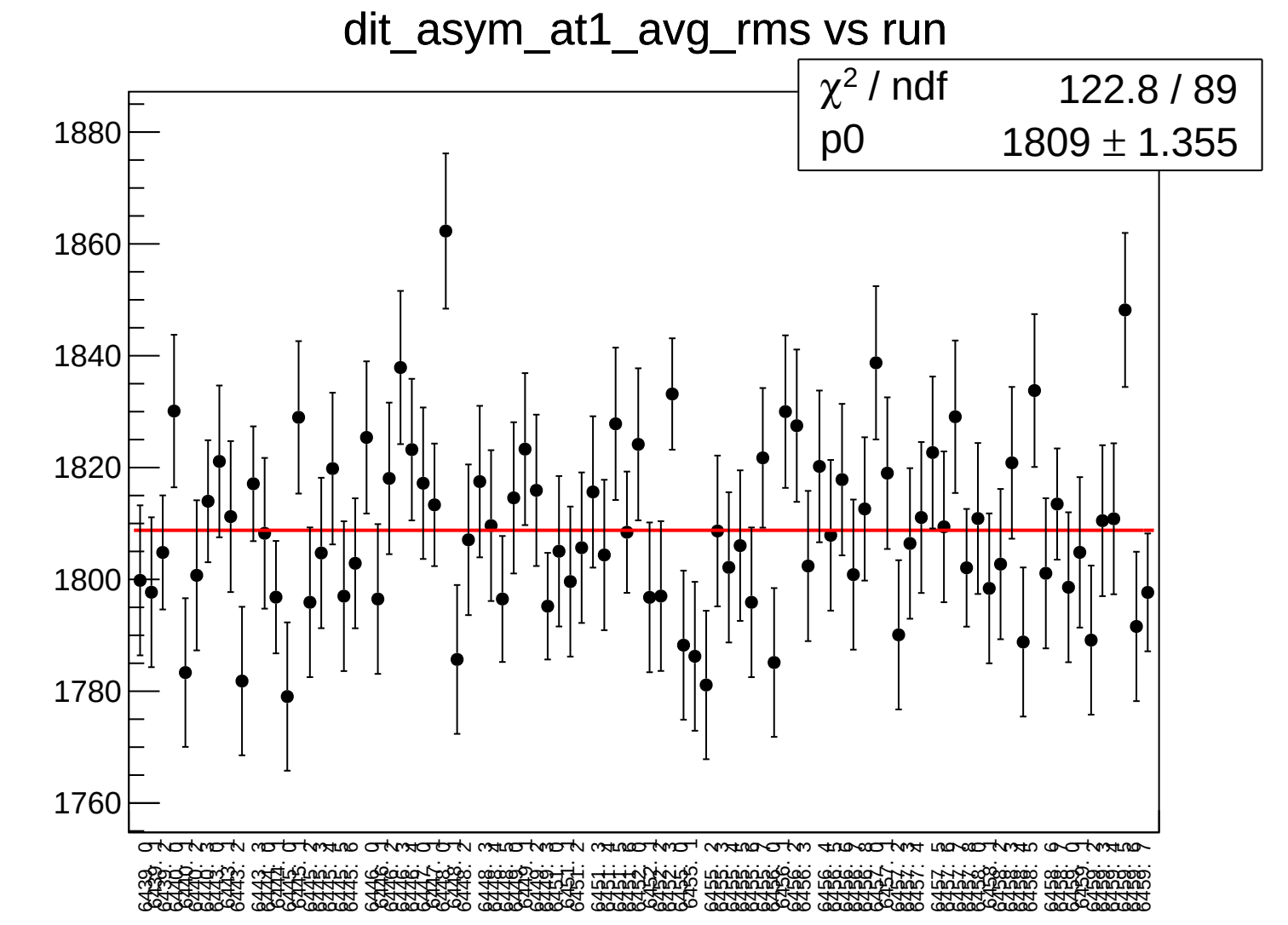

asym_at1_avg_eigen_cor_correction_mean vs run
χ² / ndf 78.3 / 89
p0 −1660 ± 917.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean −77.54
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

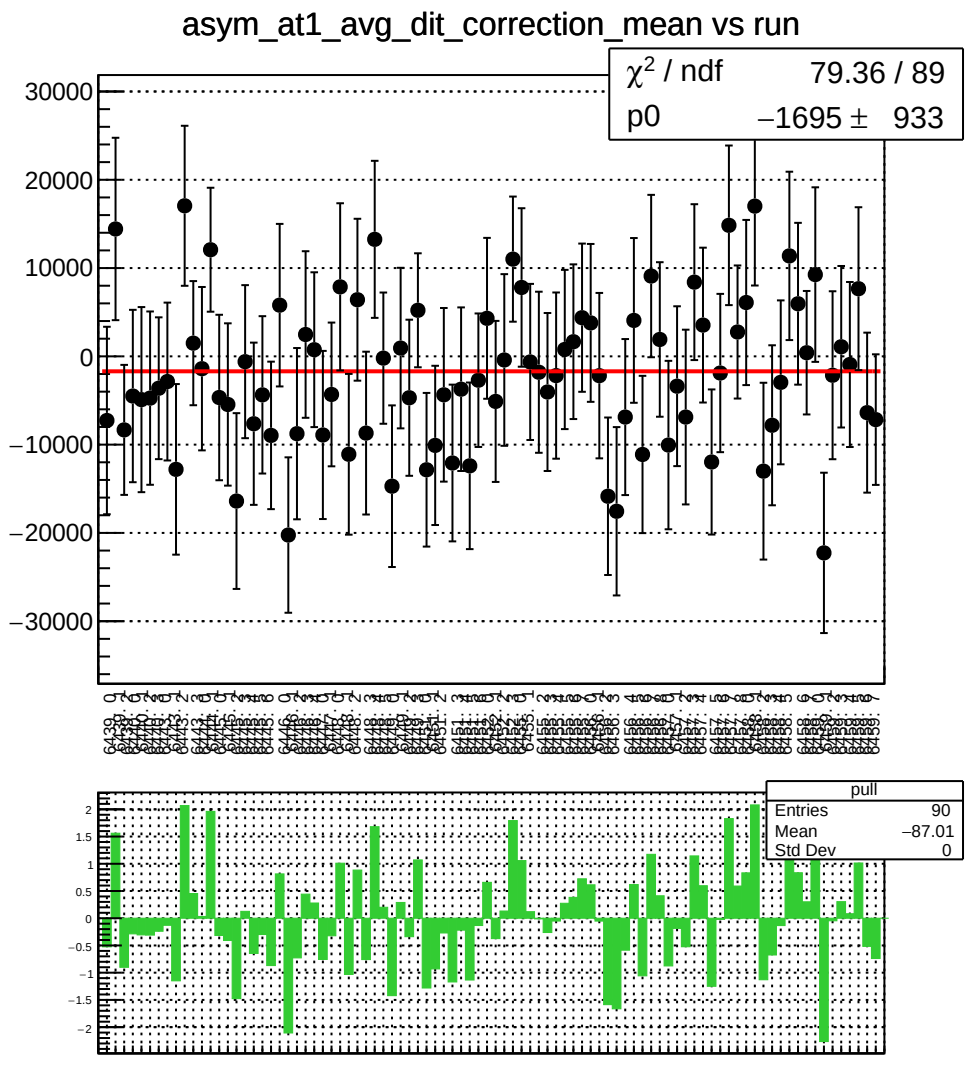

pull1D
Entries 90
Mean −0.01256
Std Dev 0.9326
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

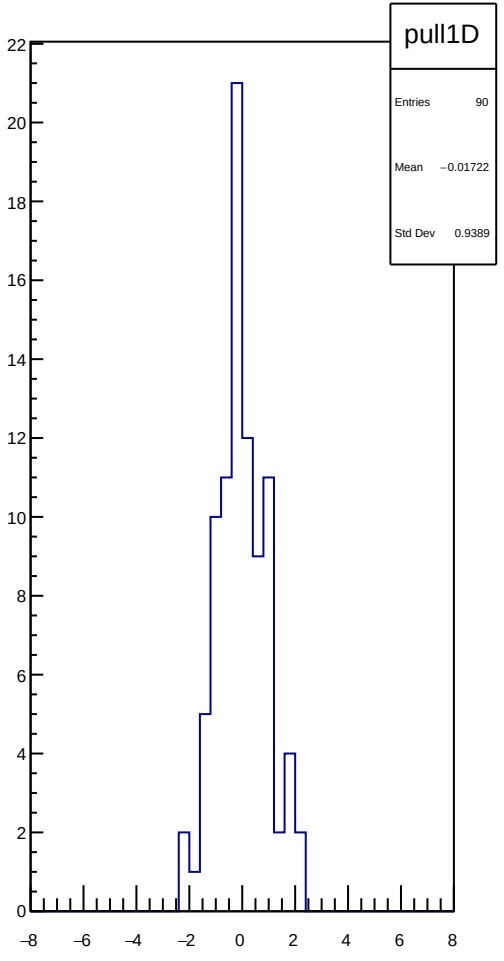

asym_at1_avg_eigen_cor_correction_rms vs run
χ² / ndf 9241 / 89
p0 863.4 ± 0.6485
1050
1000
950
900
850
800
750

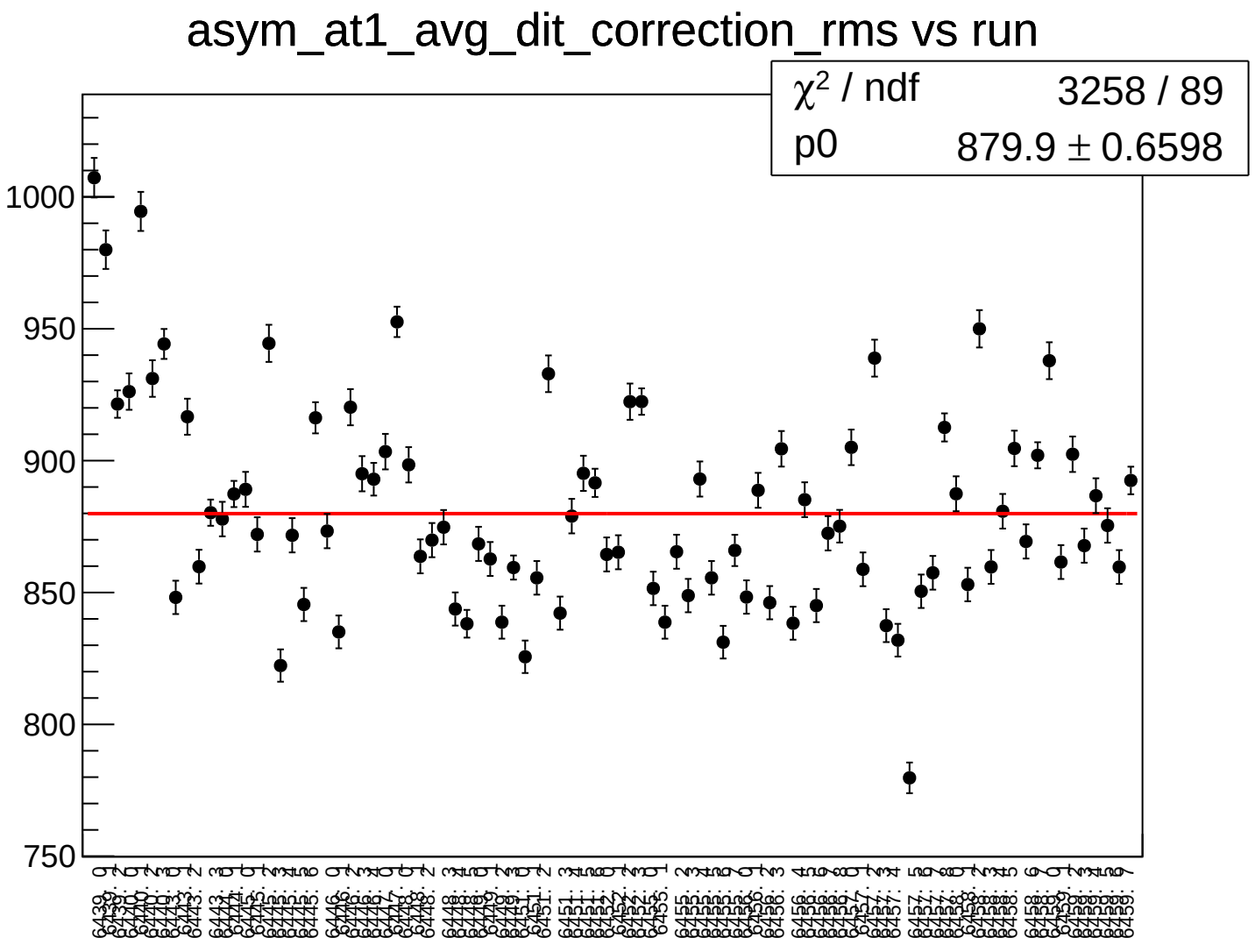

dit_asym_at1_avg_mean vs run
χ² / ndf 85.44 / 89
p0 −386.6 ± 1916
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 287.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

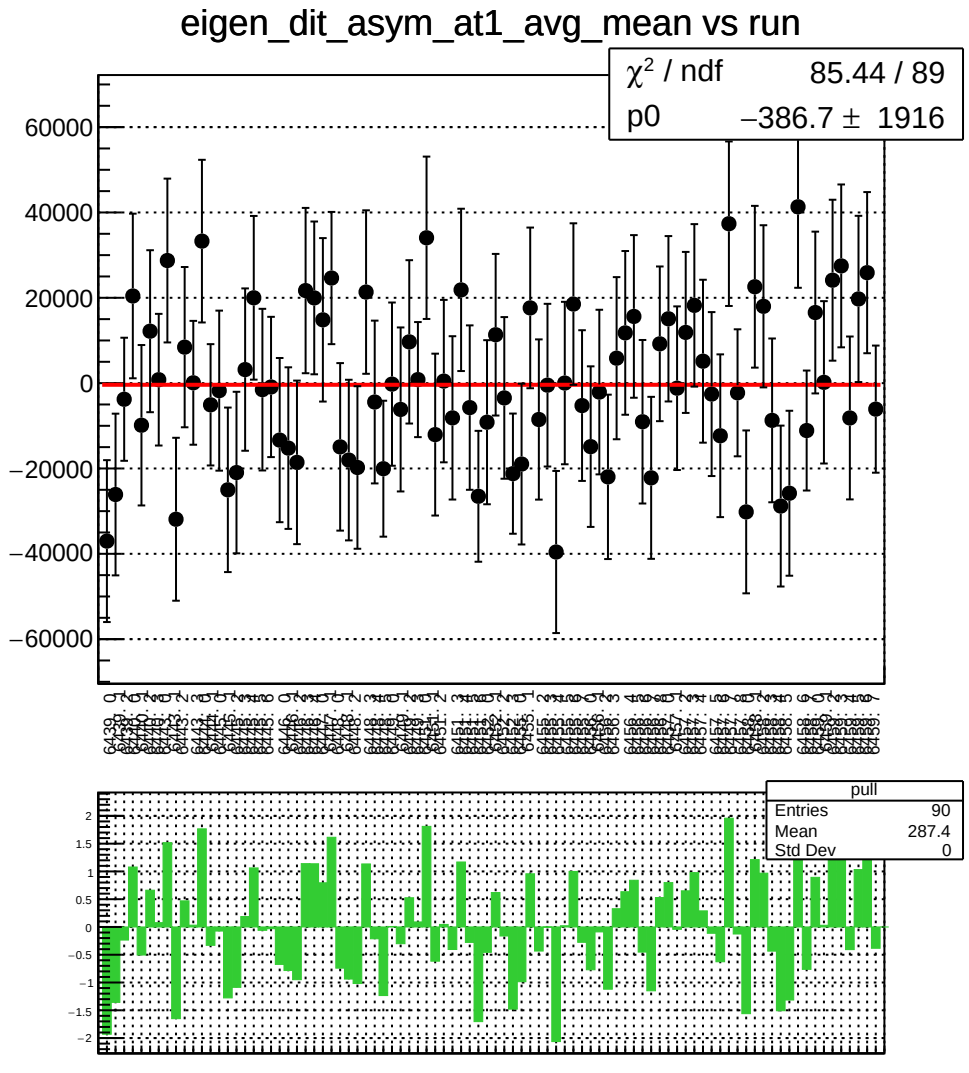

pull1D
Entries 90
Mean 0.0145
Std Dev 0.9742
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

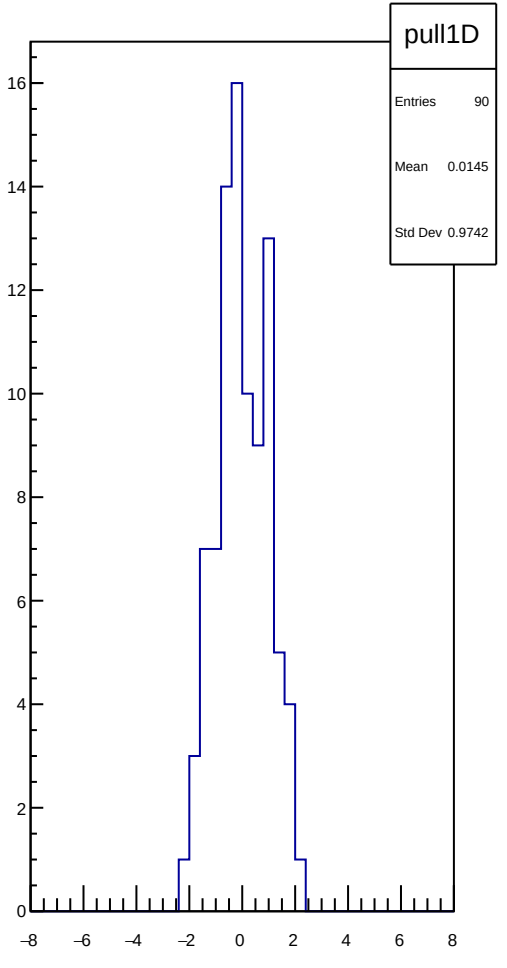

dit_asym_at1_avg_rms vs run
χ² / ndf 122.8 / 89
p0 1809 ± 1.355
1880
1860
1840
1820
1800
1780
1760

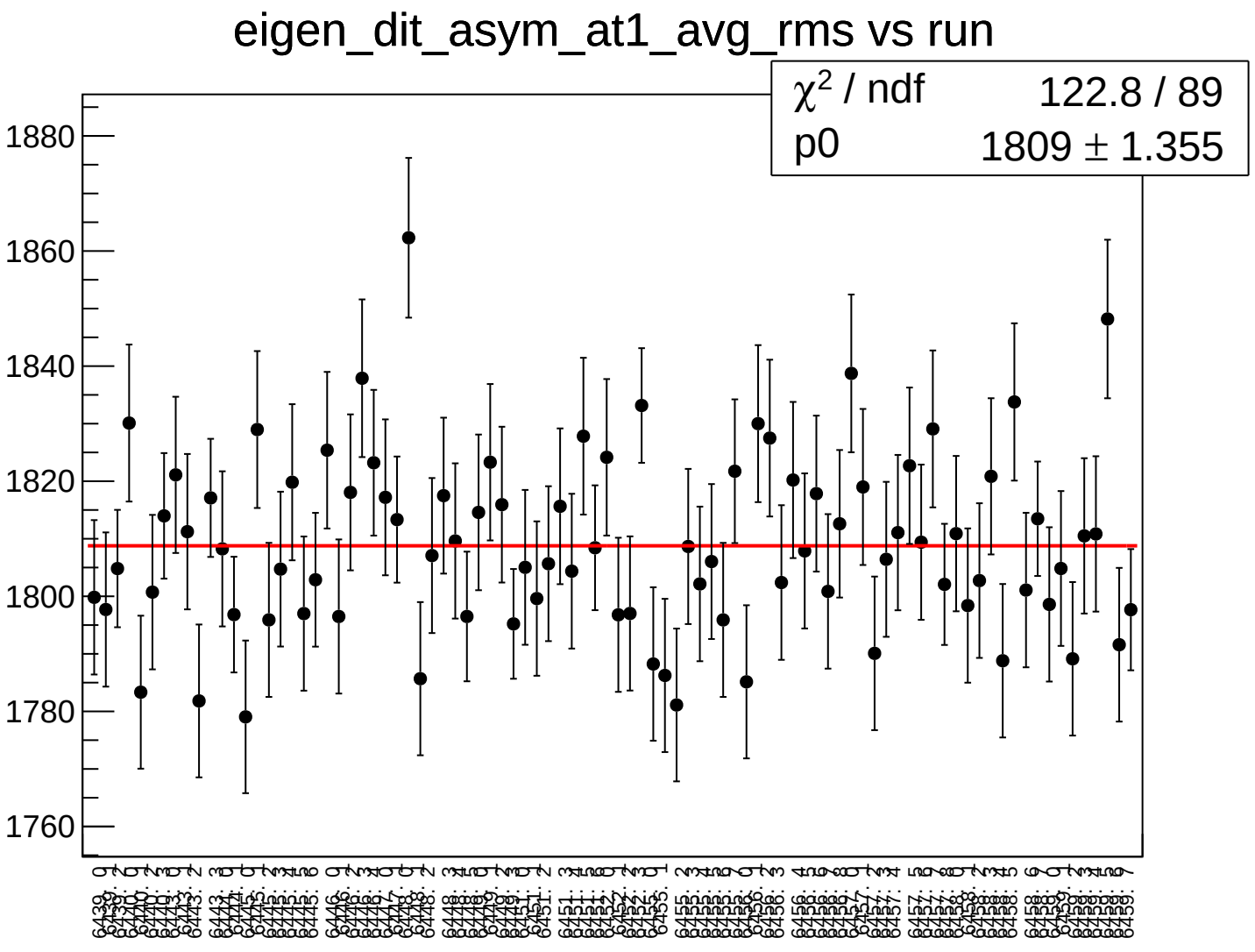

asym_at1_avg_dit_correction_mean vs run
χ² / ndf 79.36 / 89
p0 −1695 ± 933
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean −87.01
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

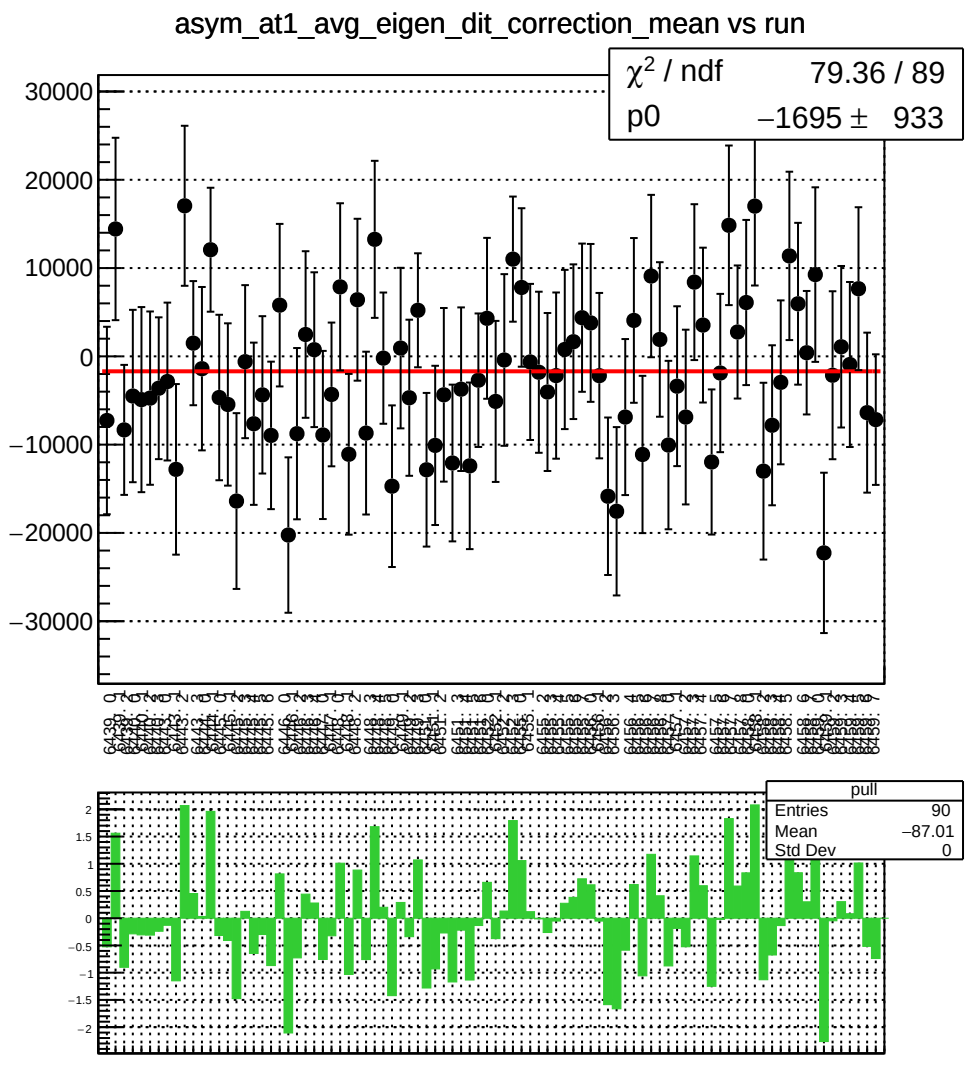

pull1D
Entries 90
Mean −0.01722
Std Dev 0.9389
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

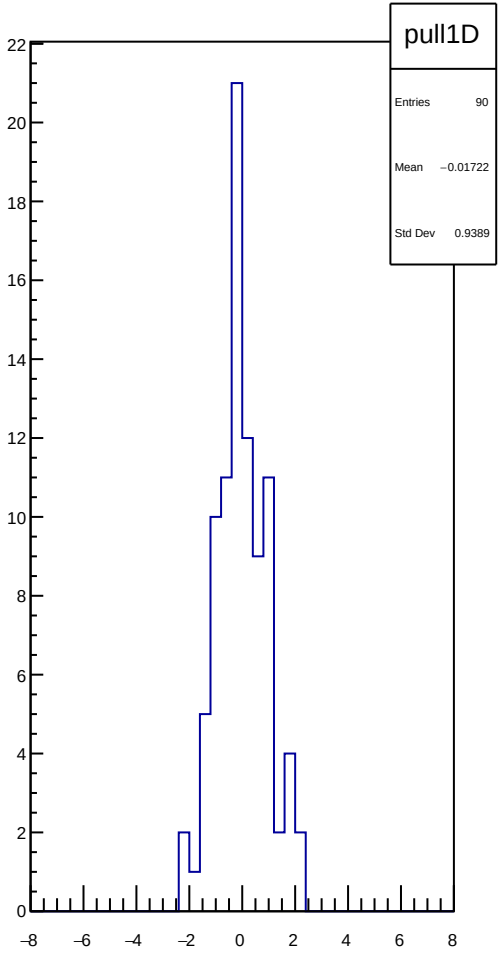

asym_at1_avg_dit_correction_rms vs run
χ² / ndf 3258 / 89
p0 879.9 ± 0.6598
1000
950
900
850
800
750

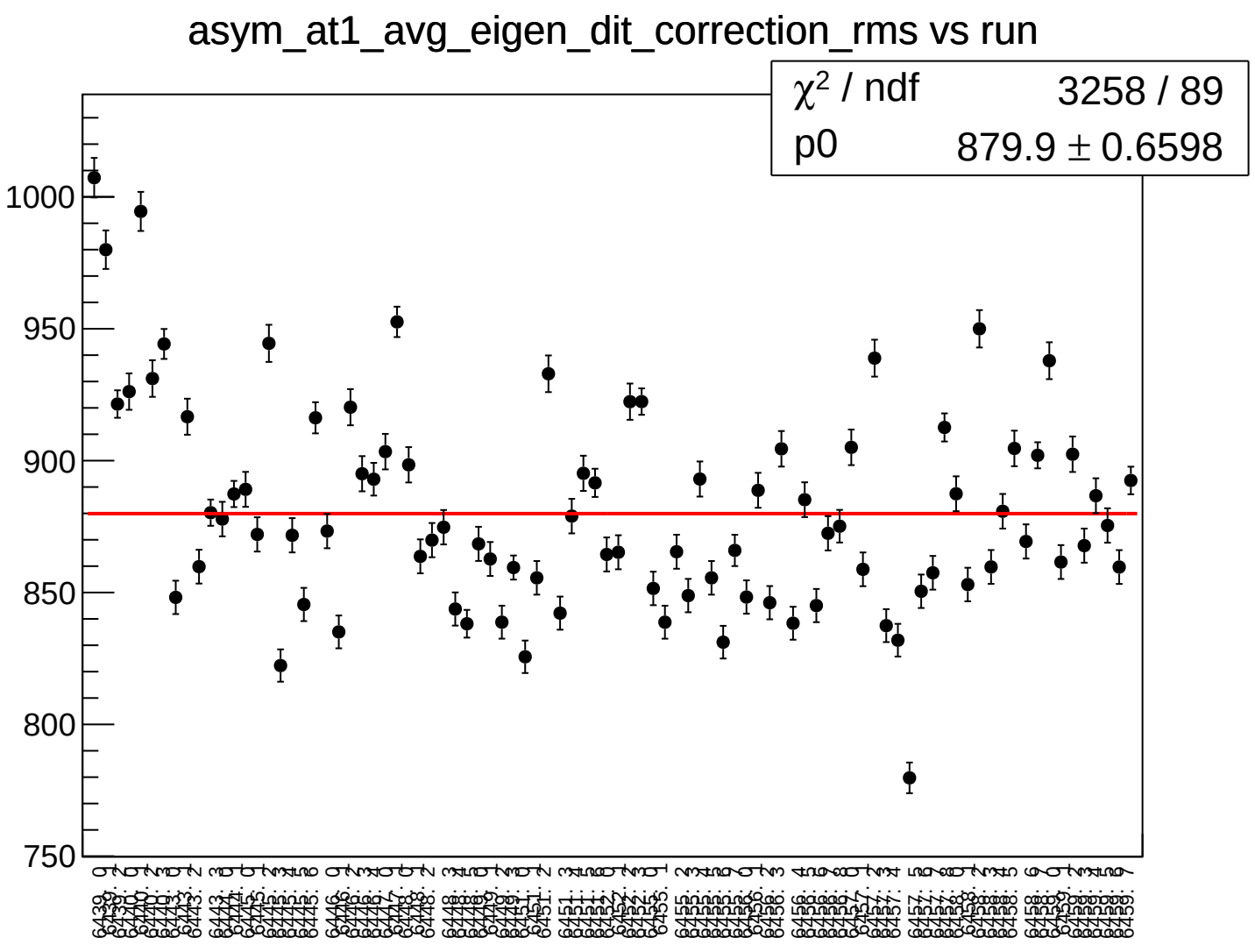

eigen_dit_asym_at1_avg_mean vs run
χ² / ndf 85.44 / 89
p0 −386.7 ± 1916
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 287.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

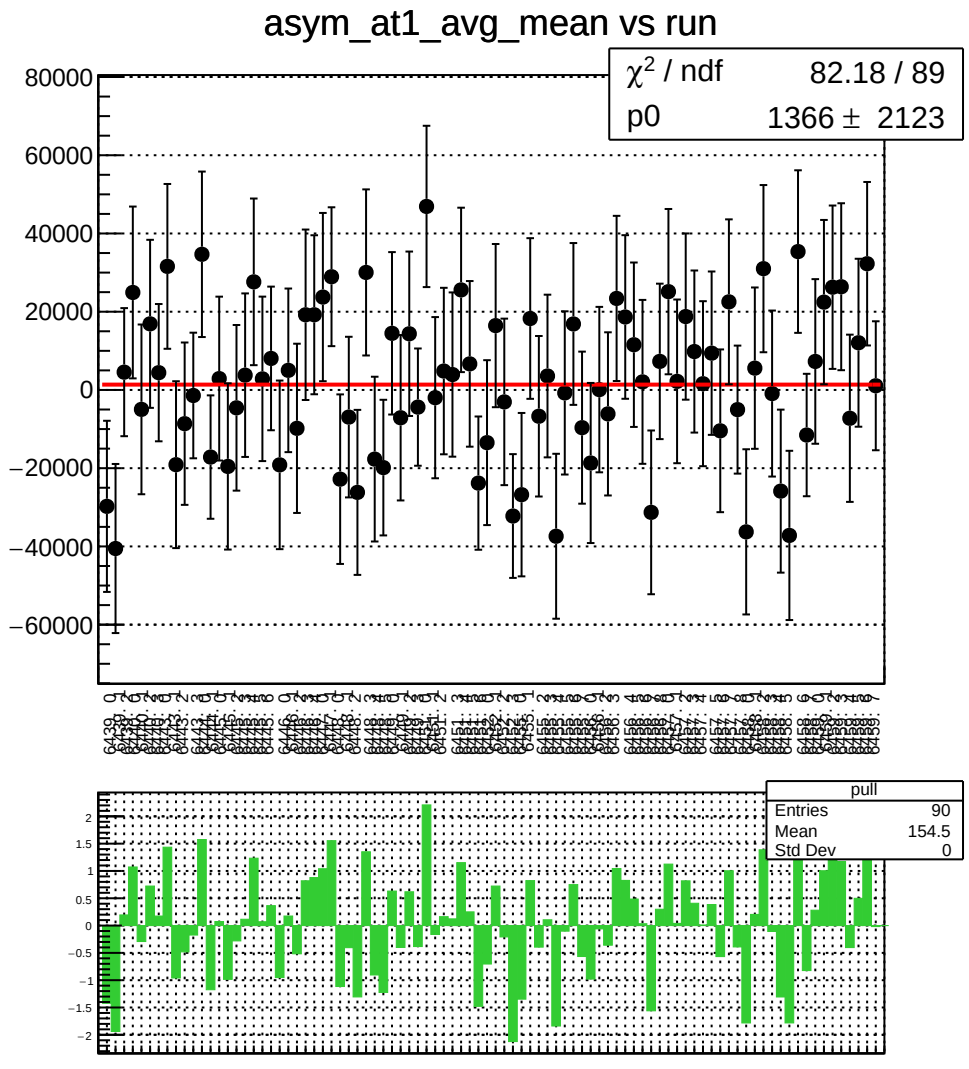

pull1D
Entries 90
Mean 0.0145
Std Dev 0.9742
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

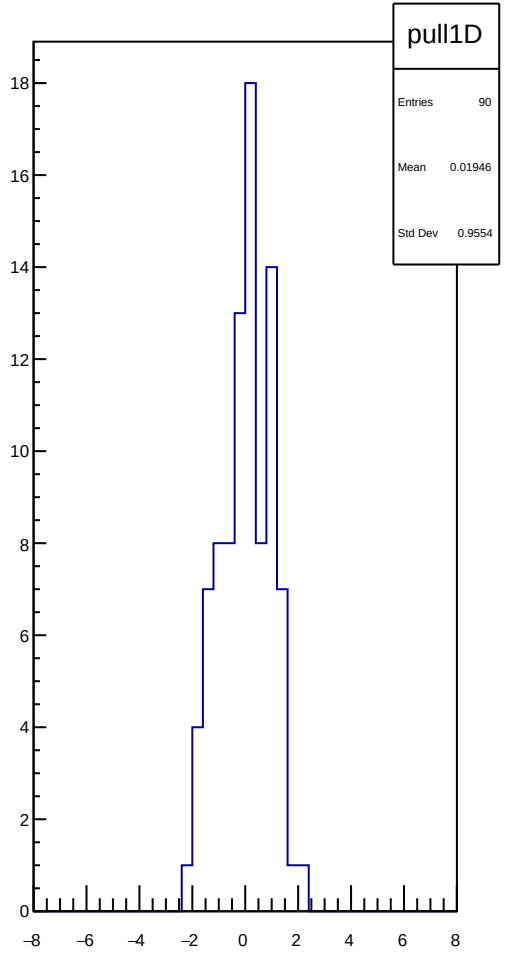

eigen_dit_asym_at1_avg_rms vs run
χ² / ndf 122.8 / 89
p0 1809 ± 1.355
1880
1860
1840
1820
1800
1780
1760

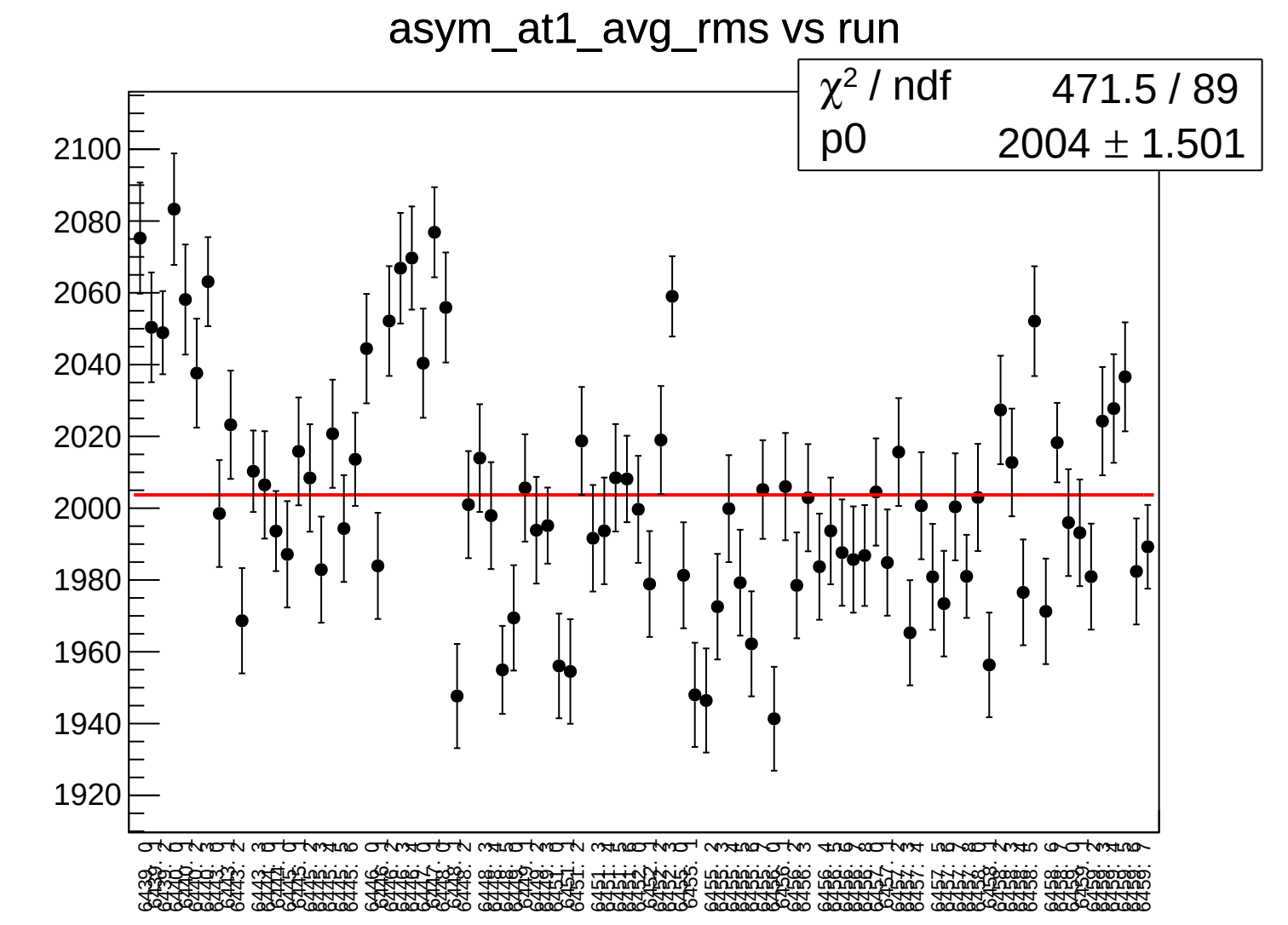

asym_at1_avg_eigen_dit_correction_mean vs run
χ² / ndf 79.36 / 89
p0 −1695 ± 933
pull
Entries 90
Mean −87.01
Std Dev 0

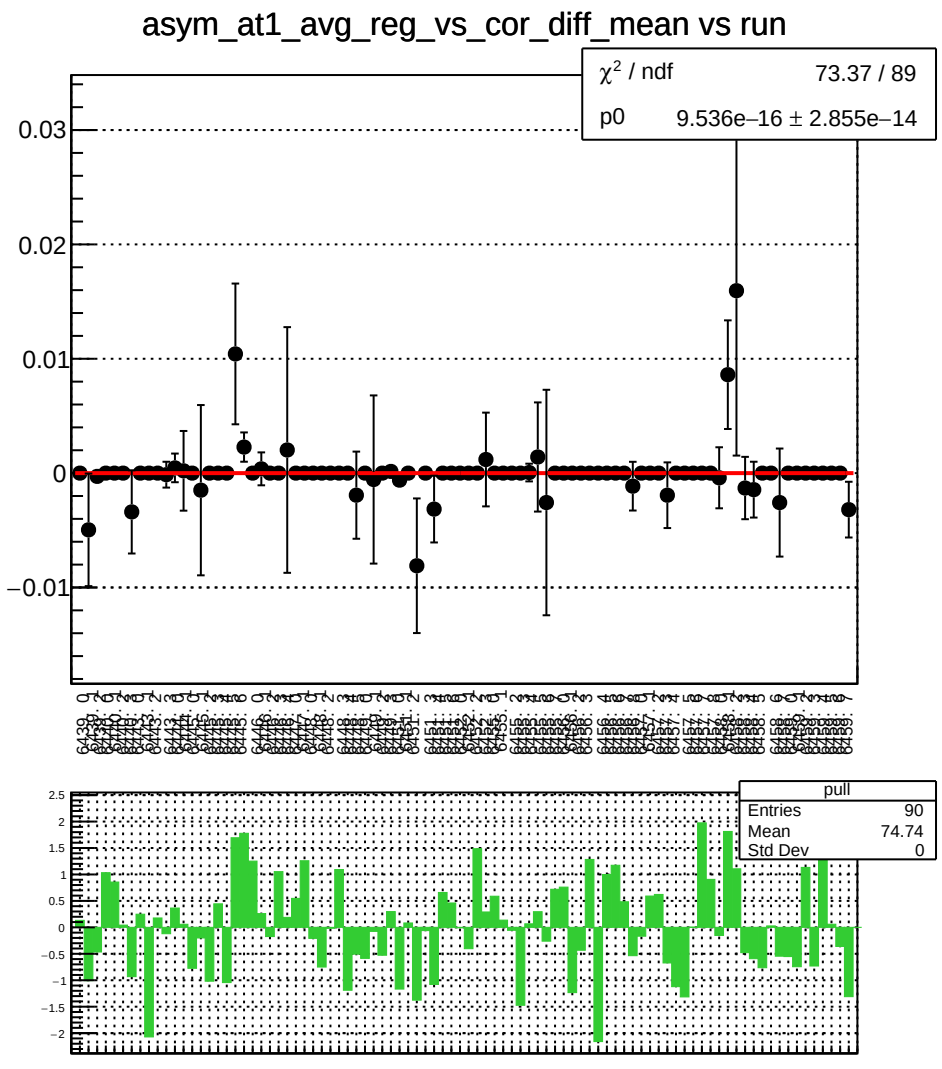

pull1D
Entries 90
Mean −0.01722
Std Dev 0.9389

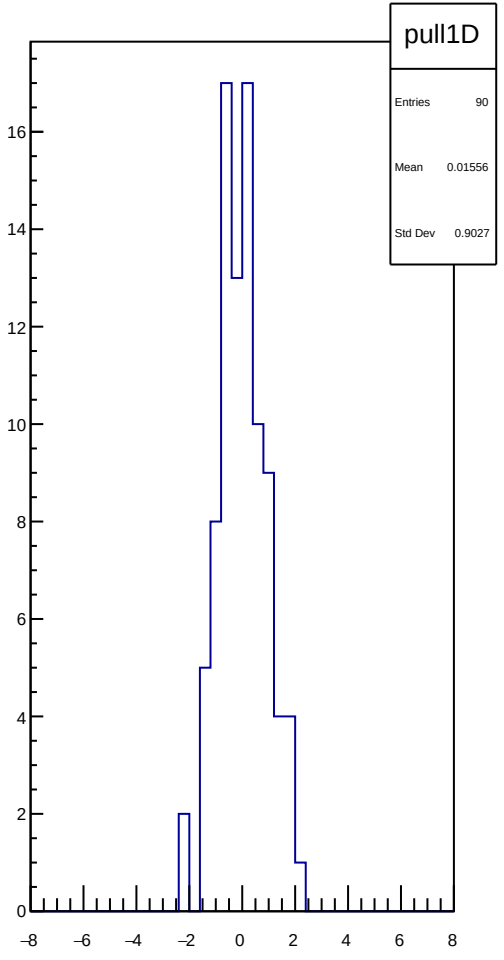

asym_at1_avg_eigen_dit_correction_rms vs run
χ² / ndf 3258 / 89
p0 879.9 ± 0.6598
1000
950
900
850
800
750

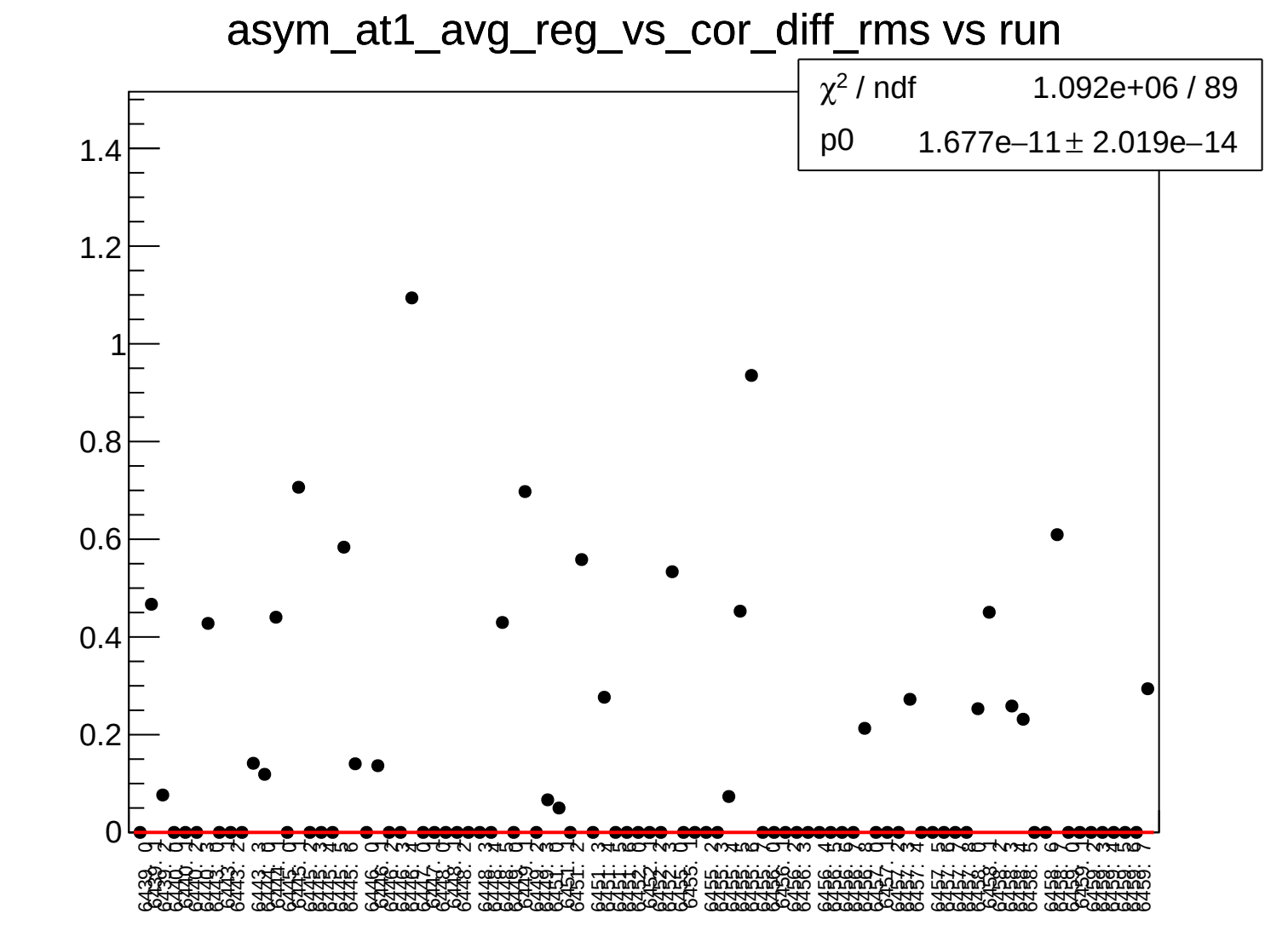

asym_at1_avg_mean vs run
χ² / ndf 82.18 / 89
p0 1366 ± 2123
pull
Entries 90
Mean 154.5
Std Dev 0

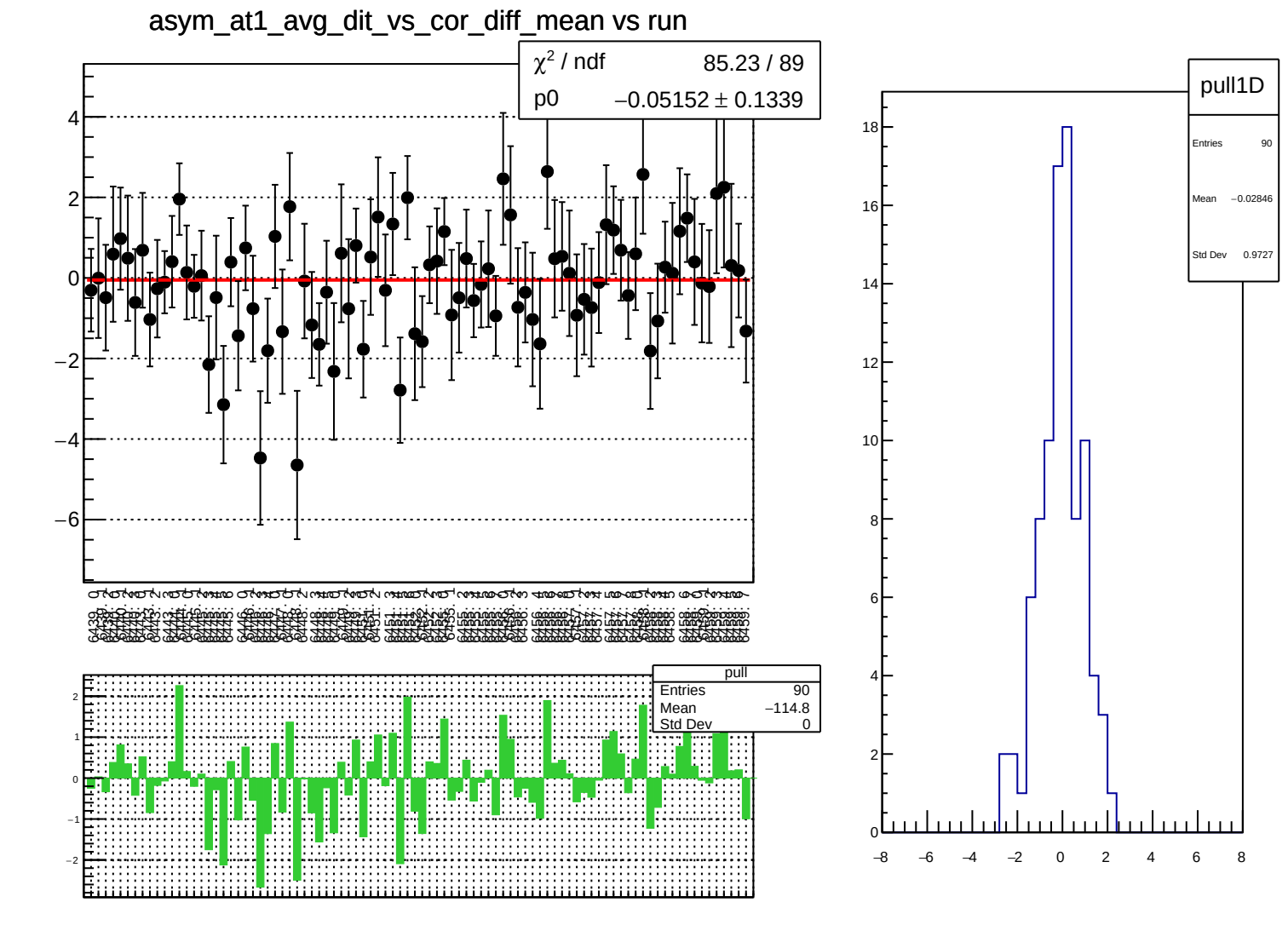

pull1D
Entries 90
Mean 0.01946
Std Dev 0.9554

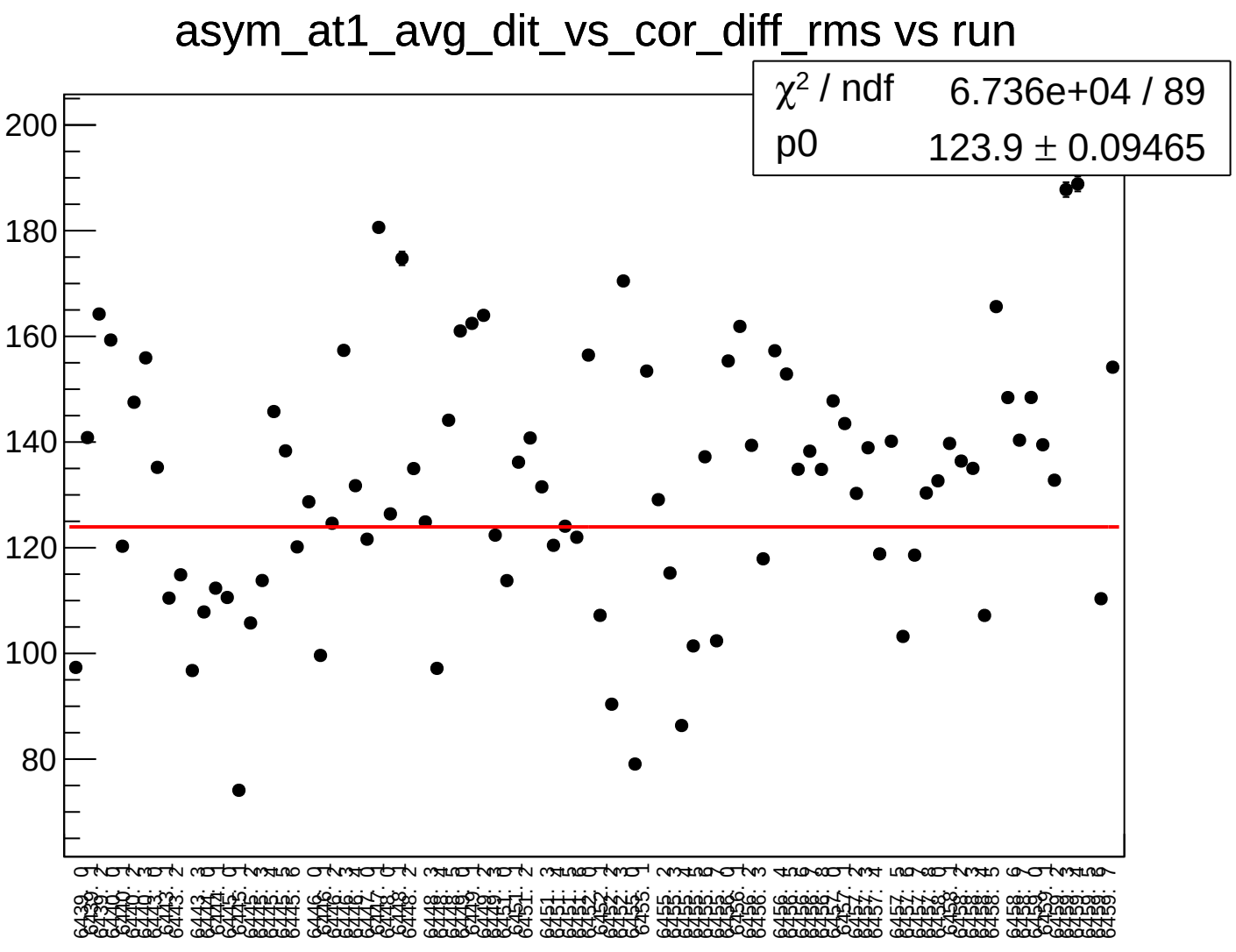

asym_at1_avg_rms vs run
χ^2 / ndf 471.5 / 89
p0 2004 ± 1.501
2100
2080
2060
2040
2020
2000
1980
1960
1940
1920

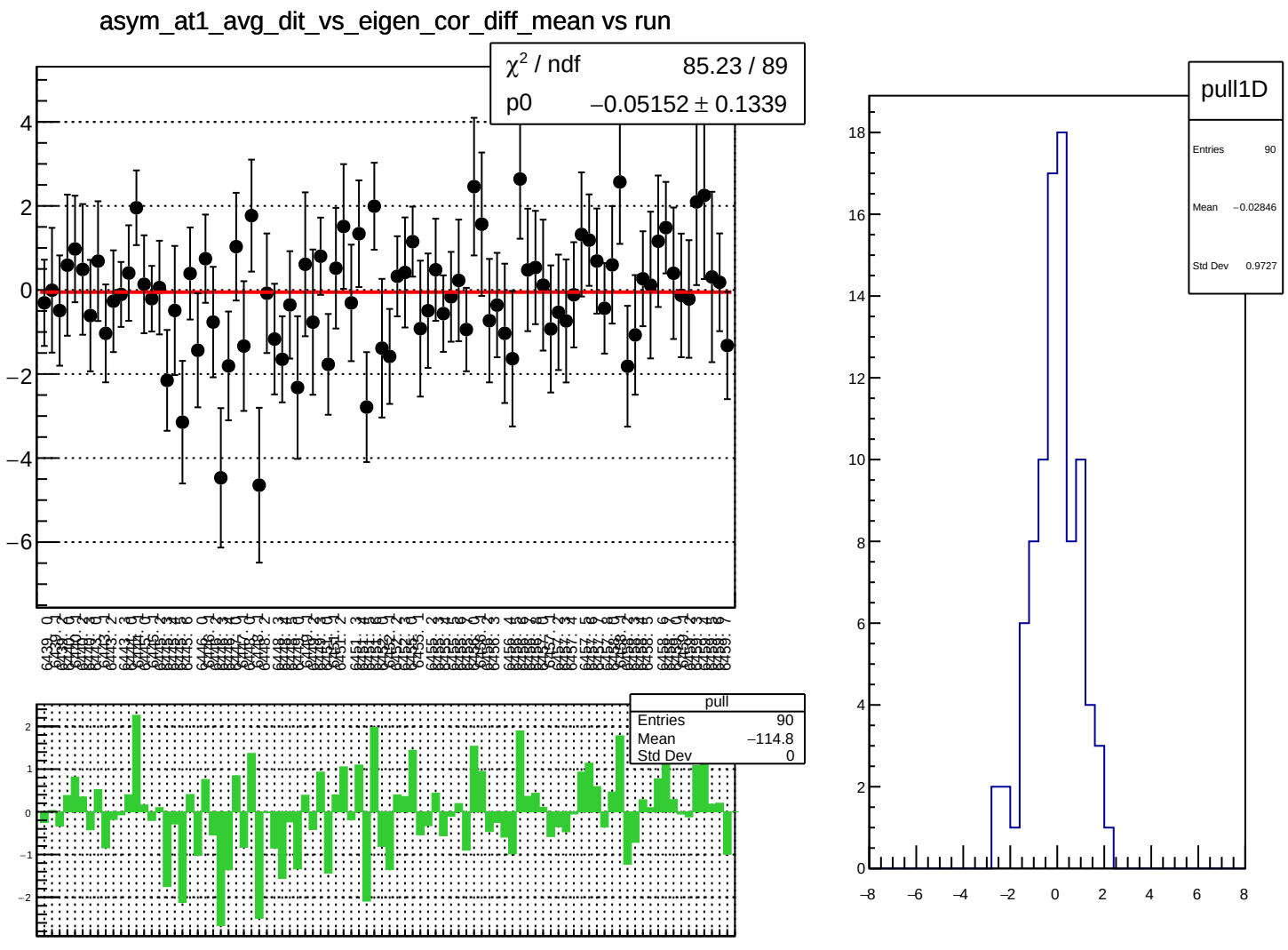

asym_at1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 73.37 / 89
p0 9.536e−16 ± 2.855e−14
0.03
0.02
0.01
0
−0.01
pull
Entries 90
Mean 74.74
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

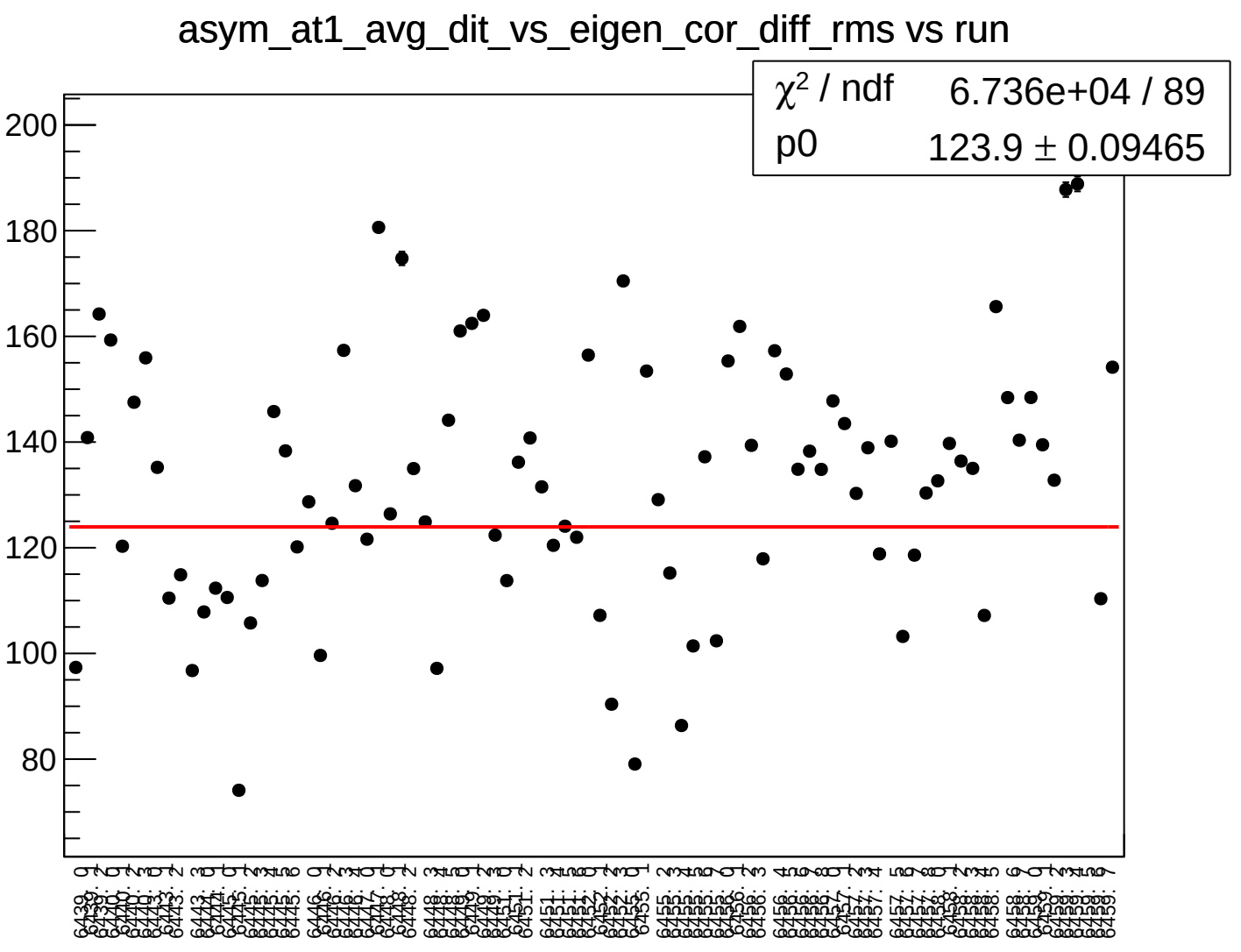

pull1D
Entries 90
Mean 0.01556
Std Dev 0.9027
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

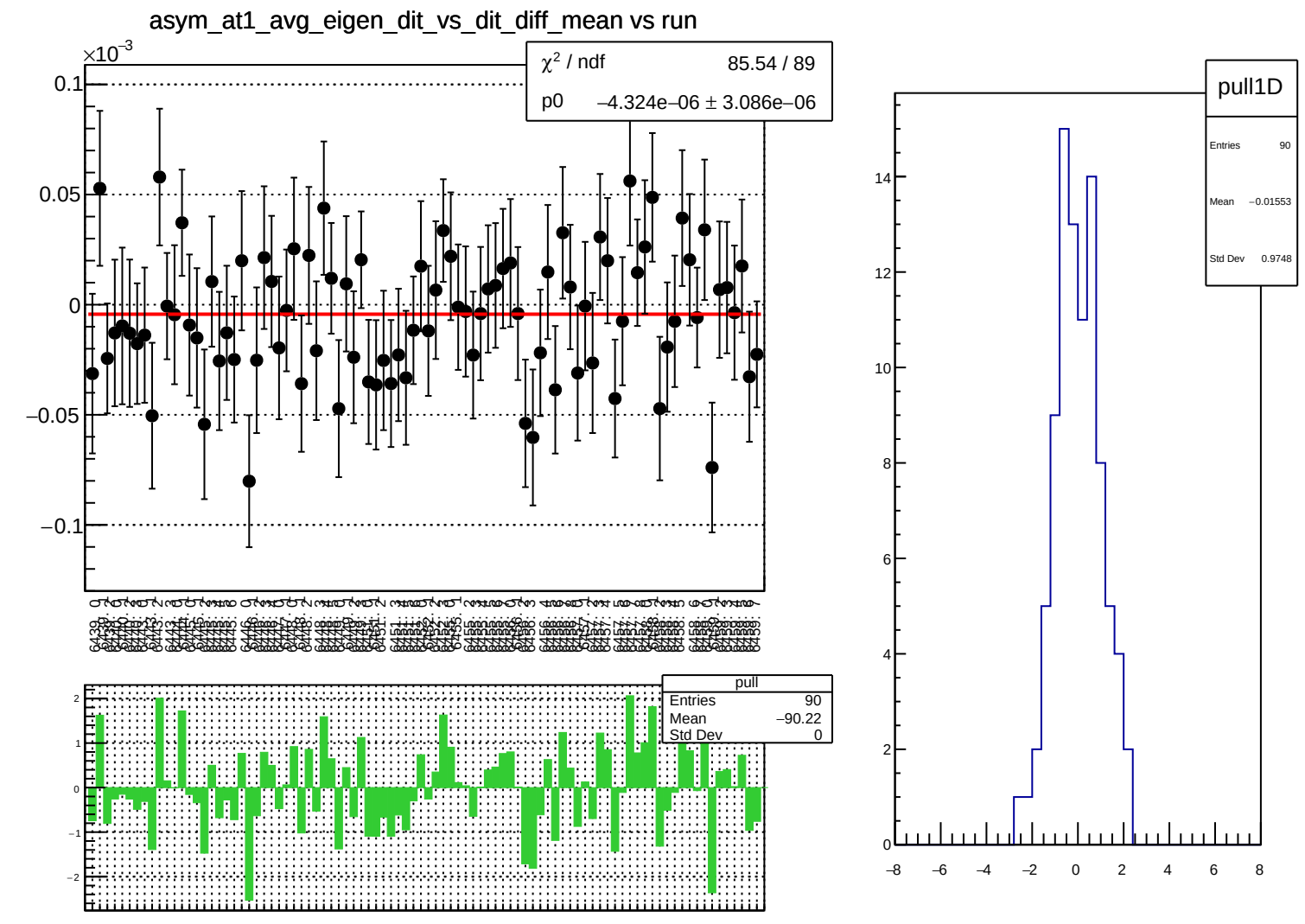

asym_at1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.092e+06 / 89
p0 1.677e−11 ± 2.019e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

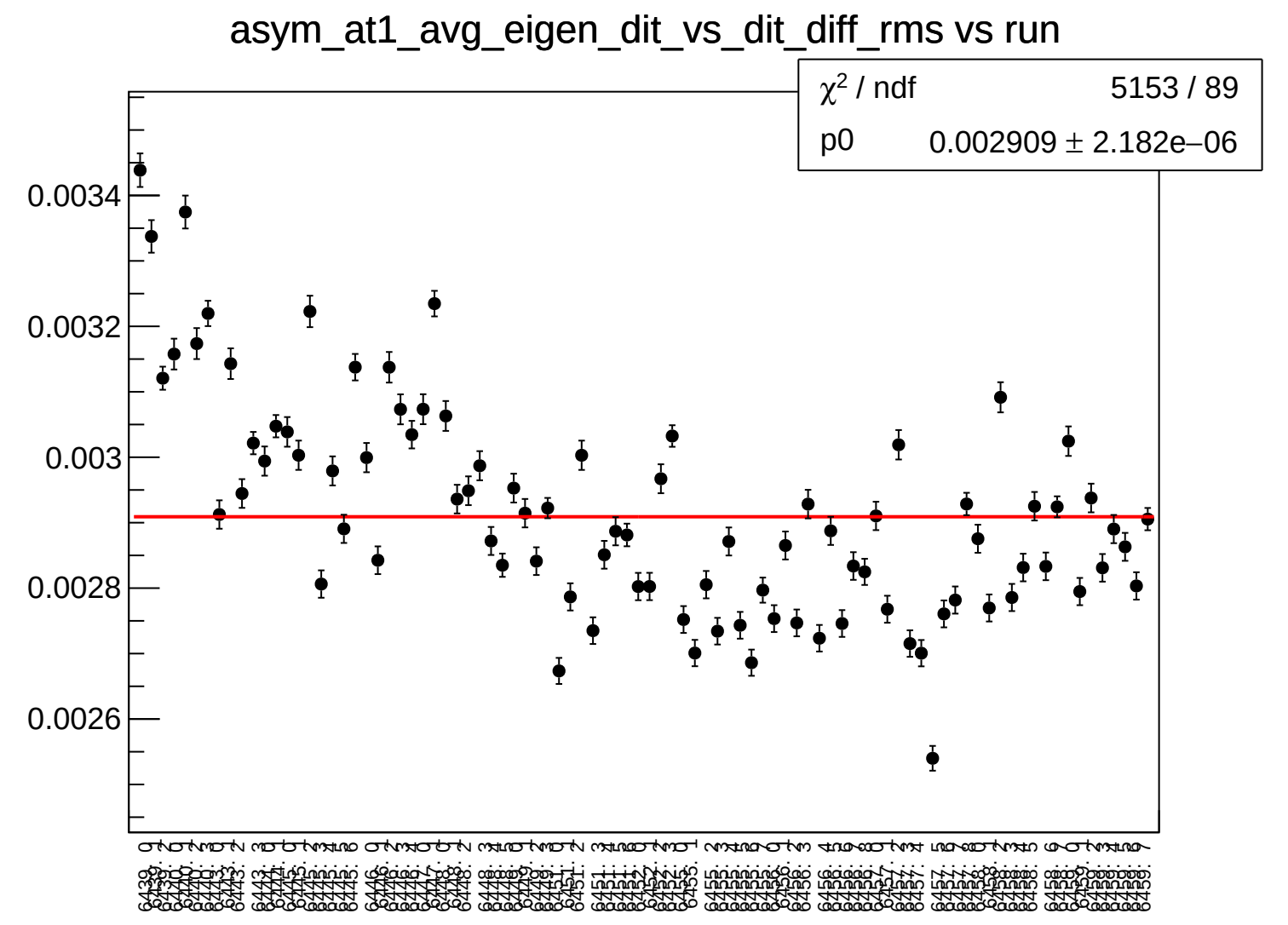

asym_at1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 85.23 / 89
p0 −0.05152 ± 0.1339
pull
Entries 90
Mean −114.8
Std Dev 0
pull1D
Entries 90
Mean −0.02846
Std Dev 0.9727

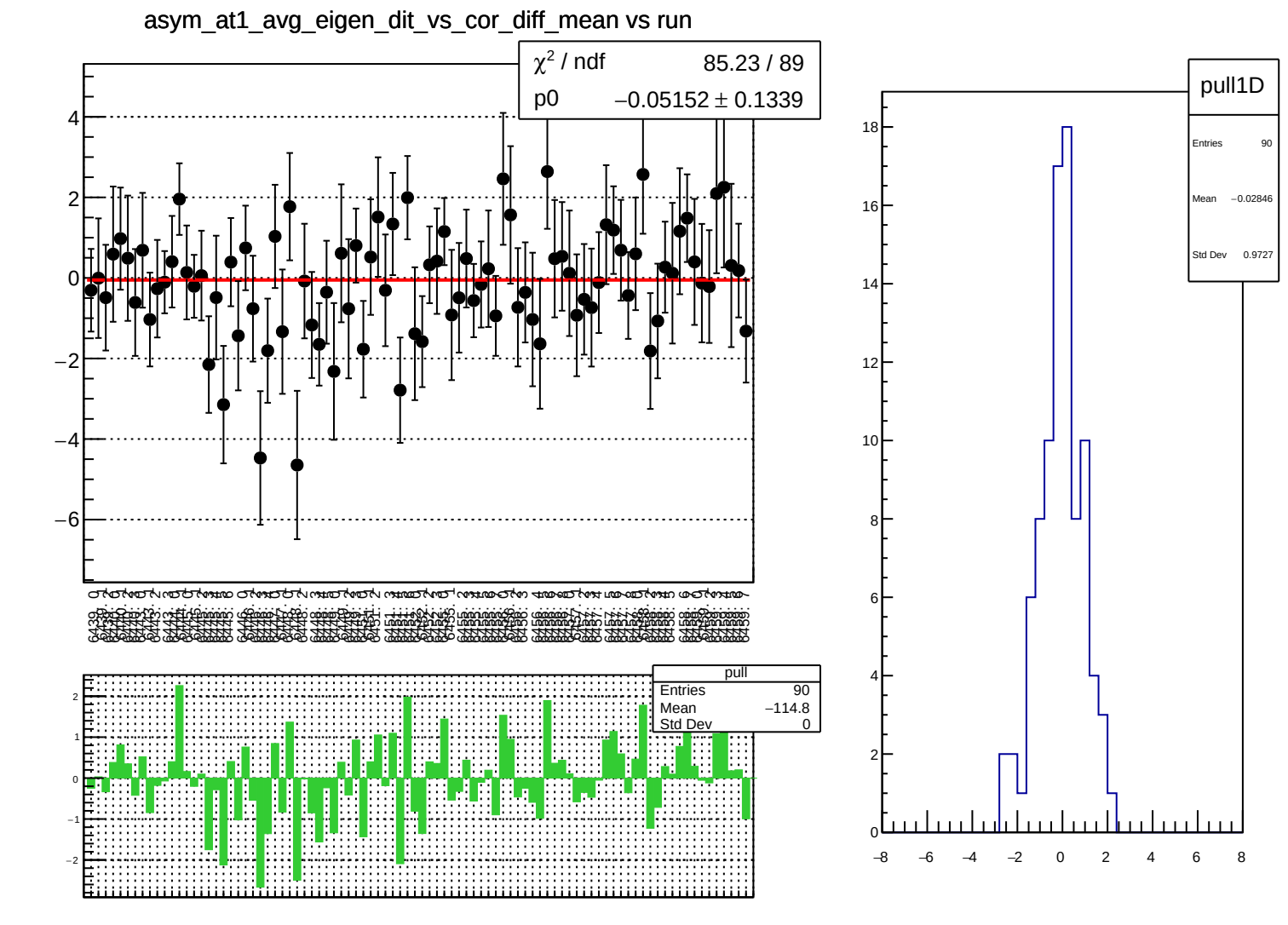

asym_at1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.736e+04 / 89
p0 123.9 ± 0.09465
200
180
160
140
120
100
80

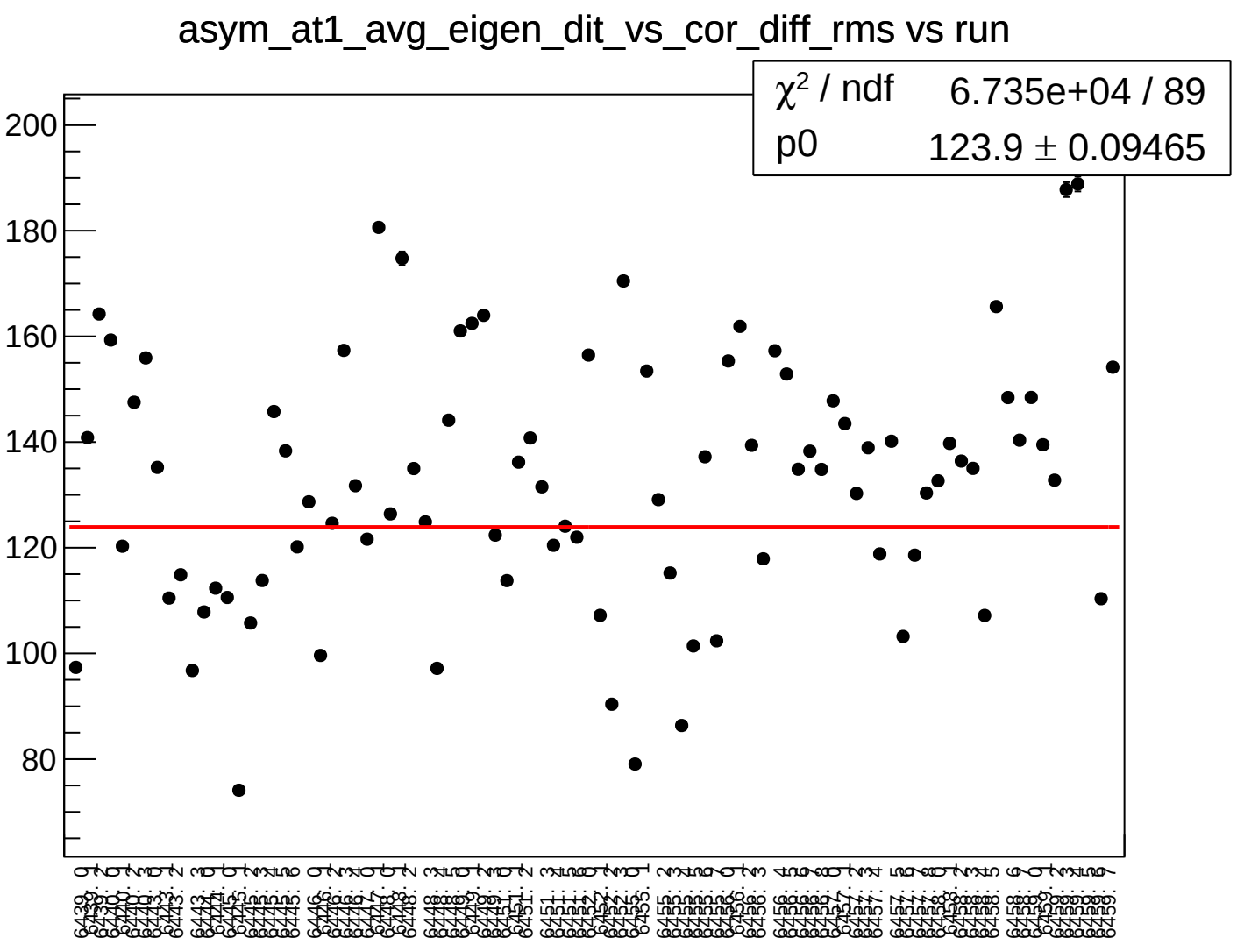

asym_at1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.23 / 89
p0 −0.05152 ± 0.1339
pull
Entries 90
Mean −114.8
Std Dev 0
pull1D
Entries 90
Mean −0.02846
Std Dev 0.9727

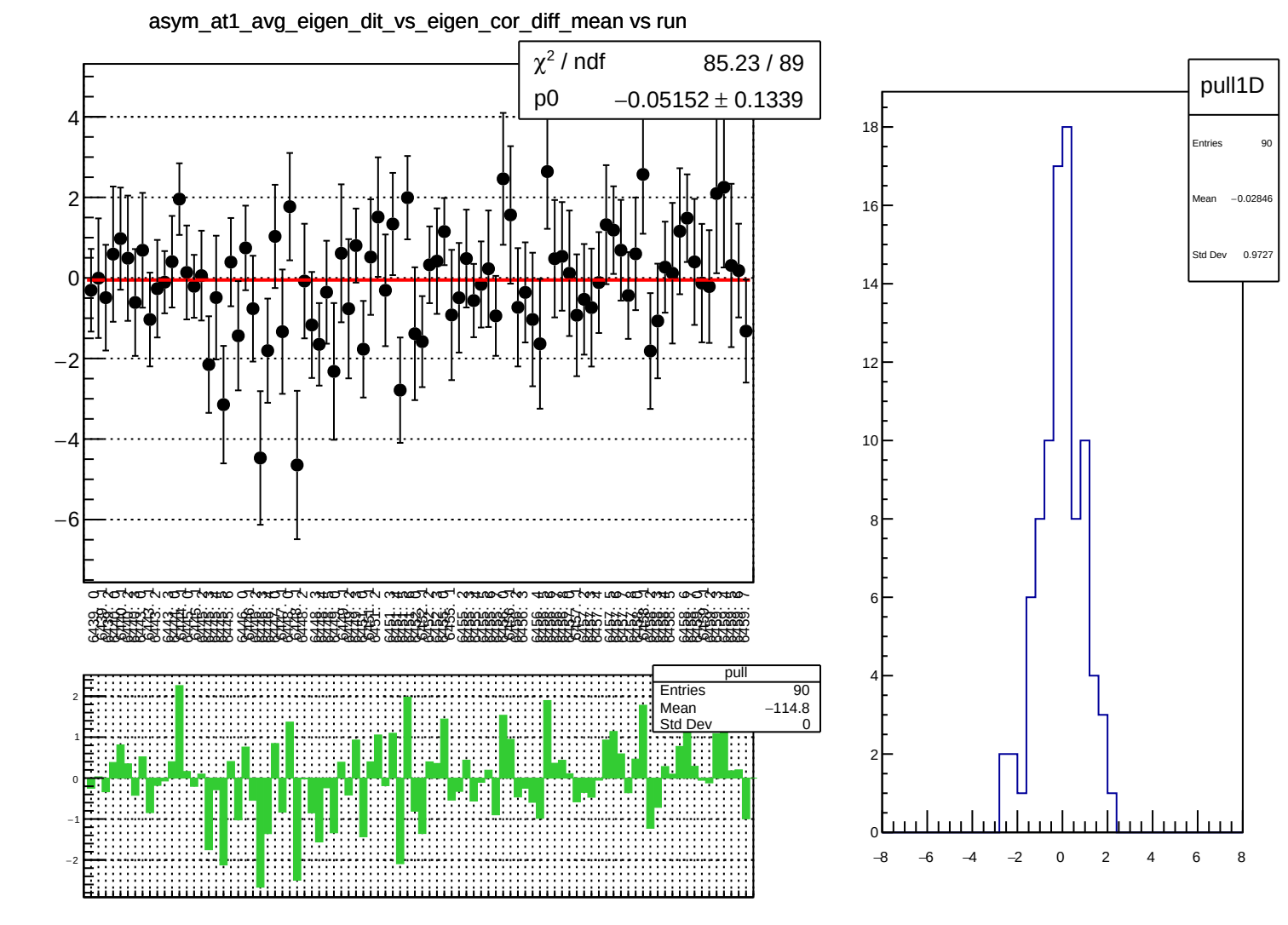

asym_at1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.736e+04 / 89
p0 123.9 ± 0.09465
200
180
160
140
120
100
80

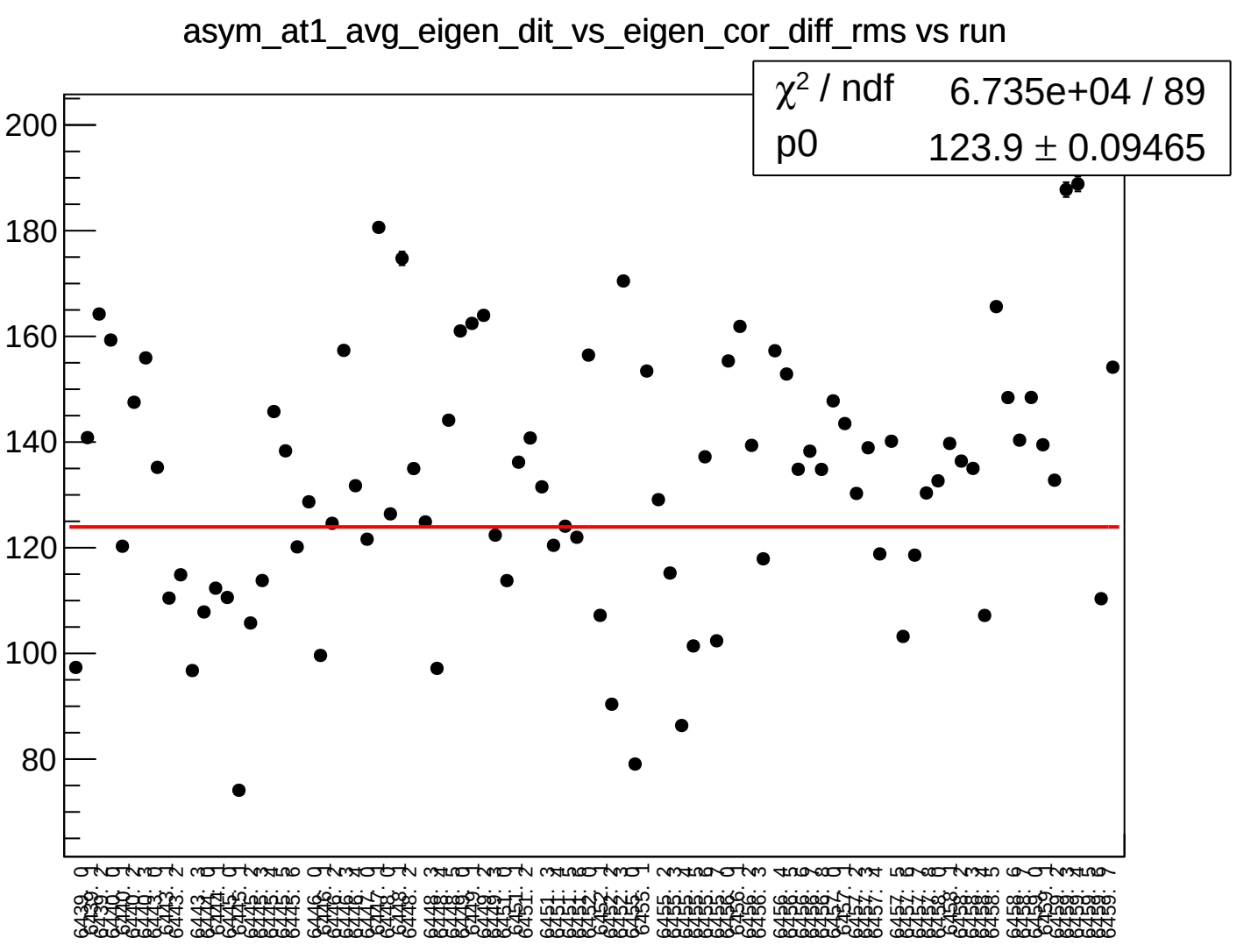

asym_at1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.54 / 89
p0 −4.324e−06 ± 3.086e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 90
Mean −90.22
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.01553
Std Dev 0.9748
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

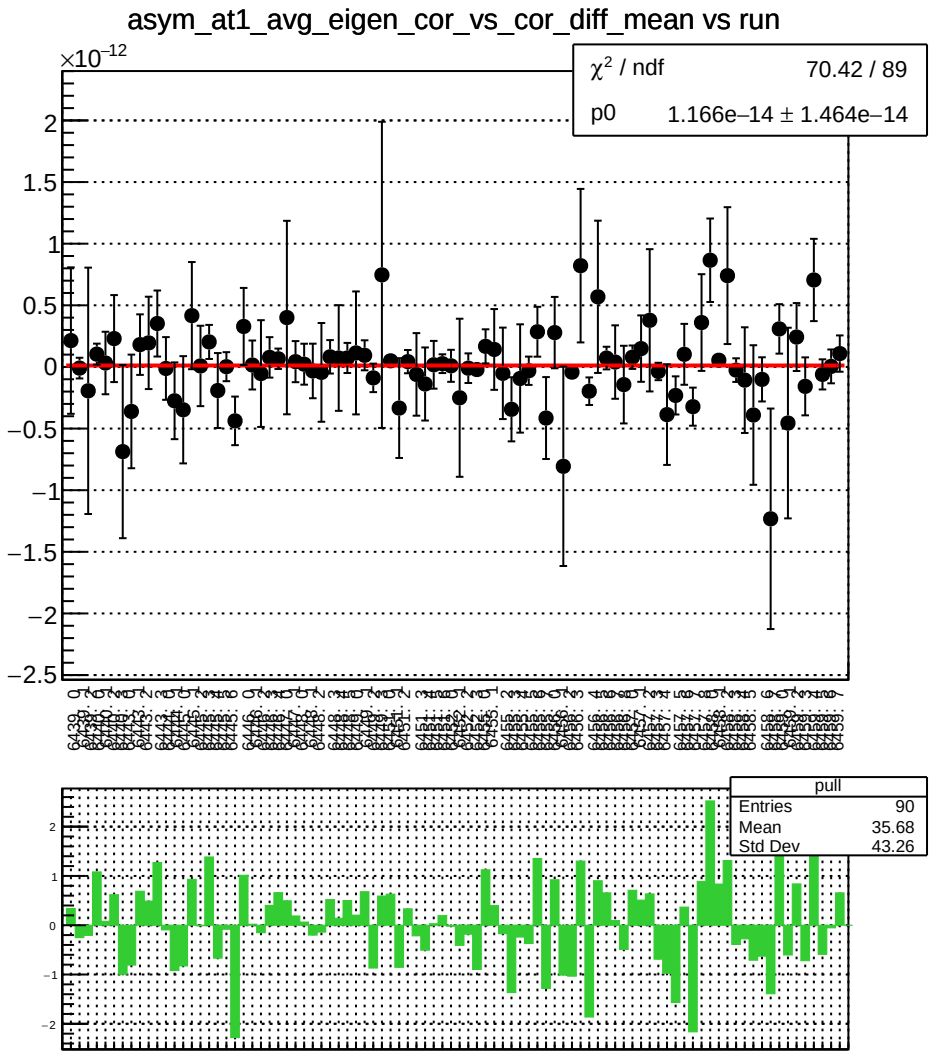

asym_at1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5153 / 89
p0 0.002909 ± 2.182e−06
0.0034
0.0032
0.003
0.0028
0.0026

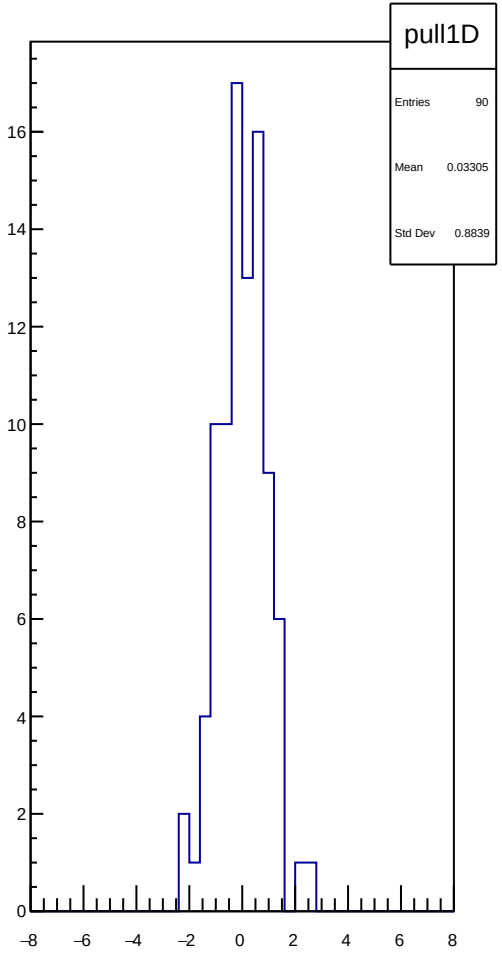

asym_at1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.23 / 89
p0 −0.05152 ± 0.1339
pull
Entries 90
Mean −114.8
Std Dev 0
pull1D
Entries 90
Mean −0.02846
Std Dev 0.9727

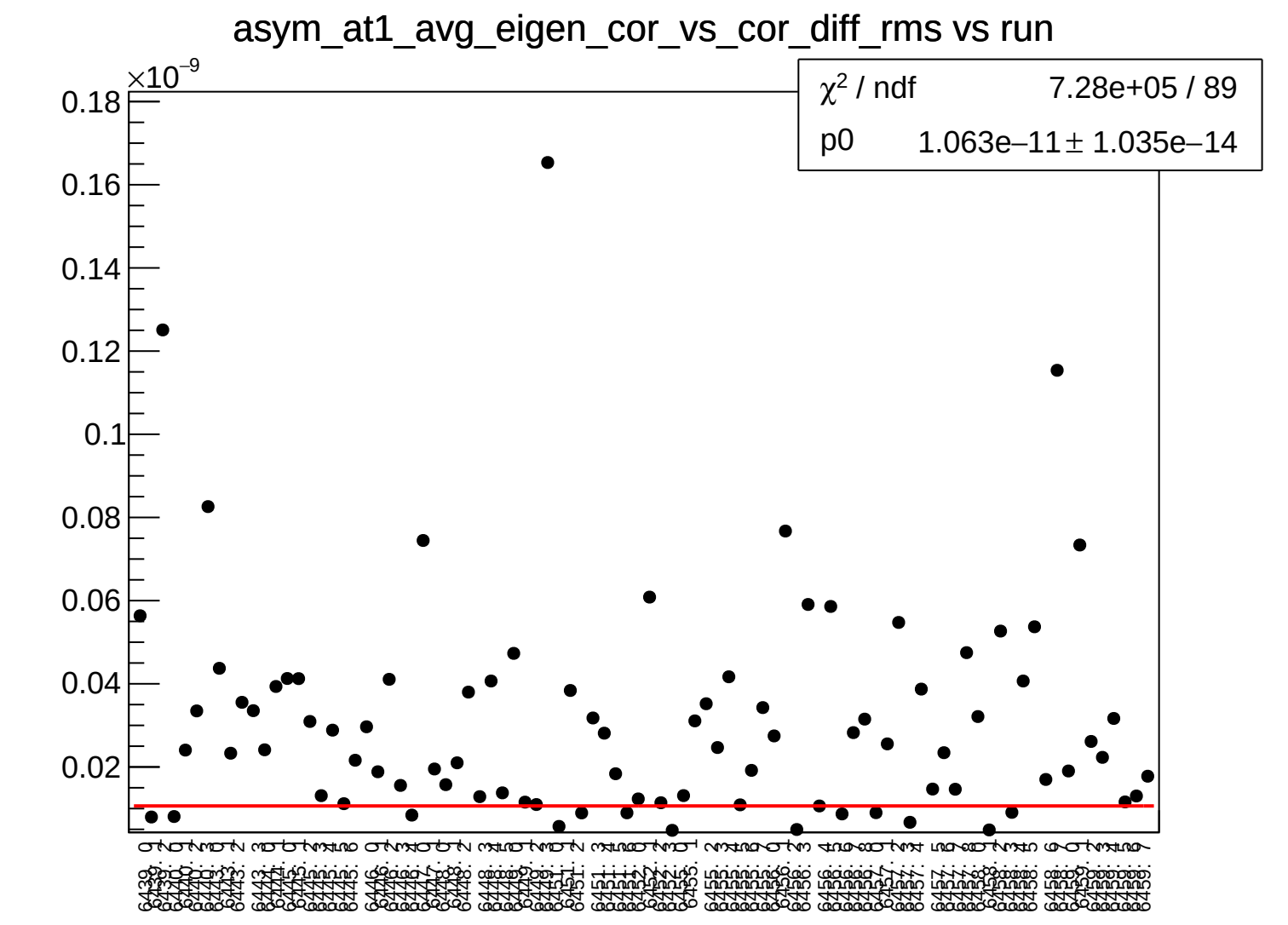

asym_at1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.735e+04 / 89
p0 123.9 ± 0.09465
200
180
160
140
120
100
80

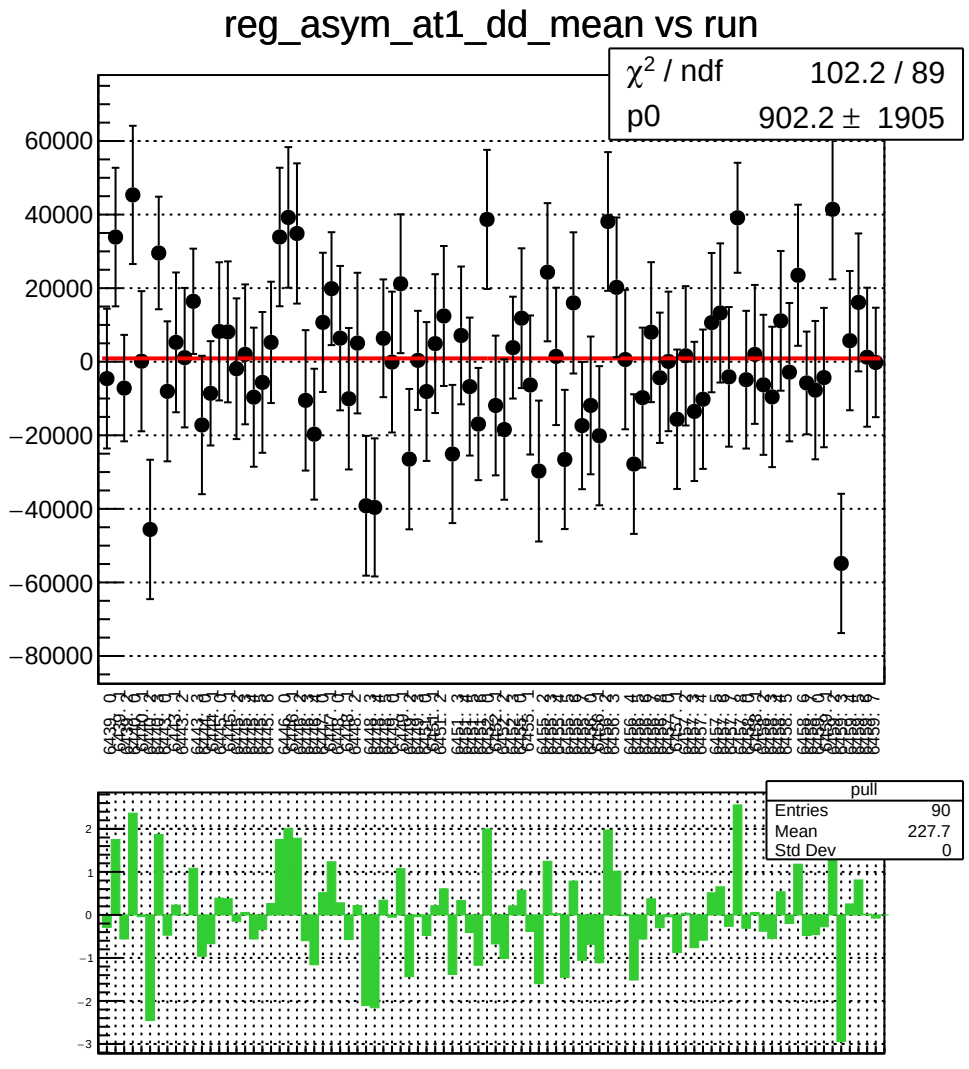

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.23 / 89
p0 −0.05152 ± 0.1339
pull
Entries 90
Mean −114.8
Std Dev 0
pull1D
Entries 90
Mean −0.02846
Std Dev 0.9727

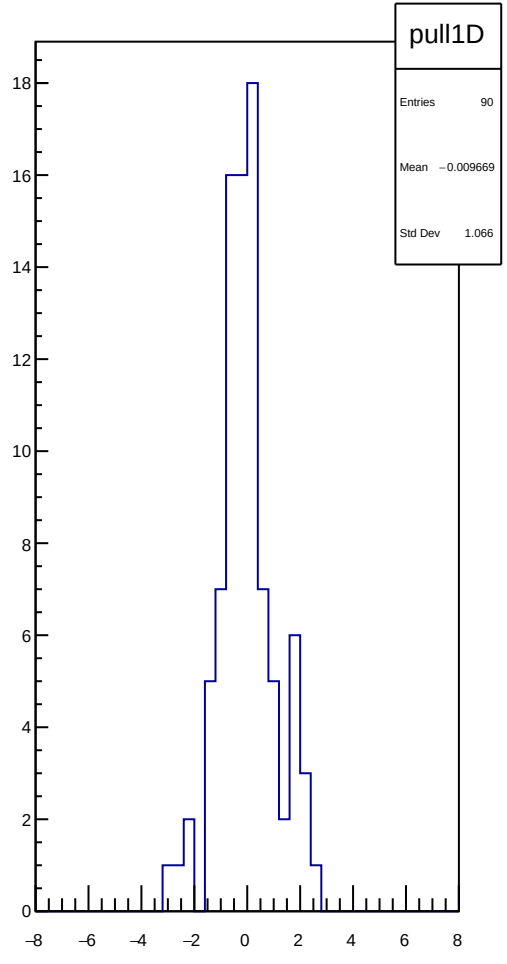

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.735e+04 / 89
p0 123.9 ± 0.09465
200
180
160
140
120
100
80

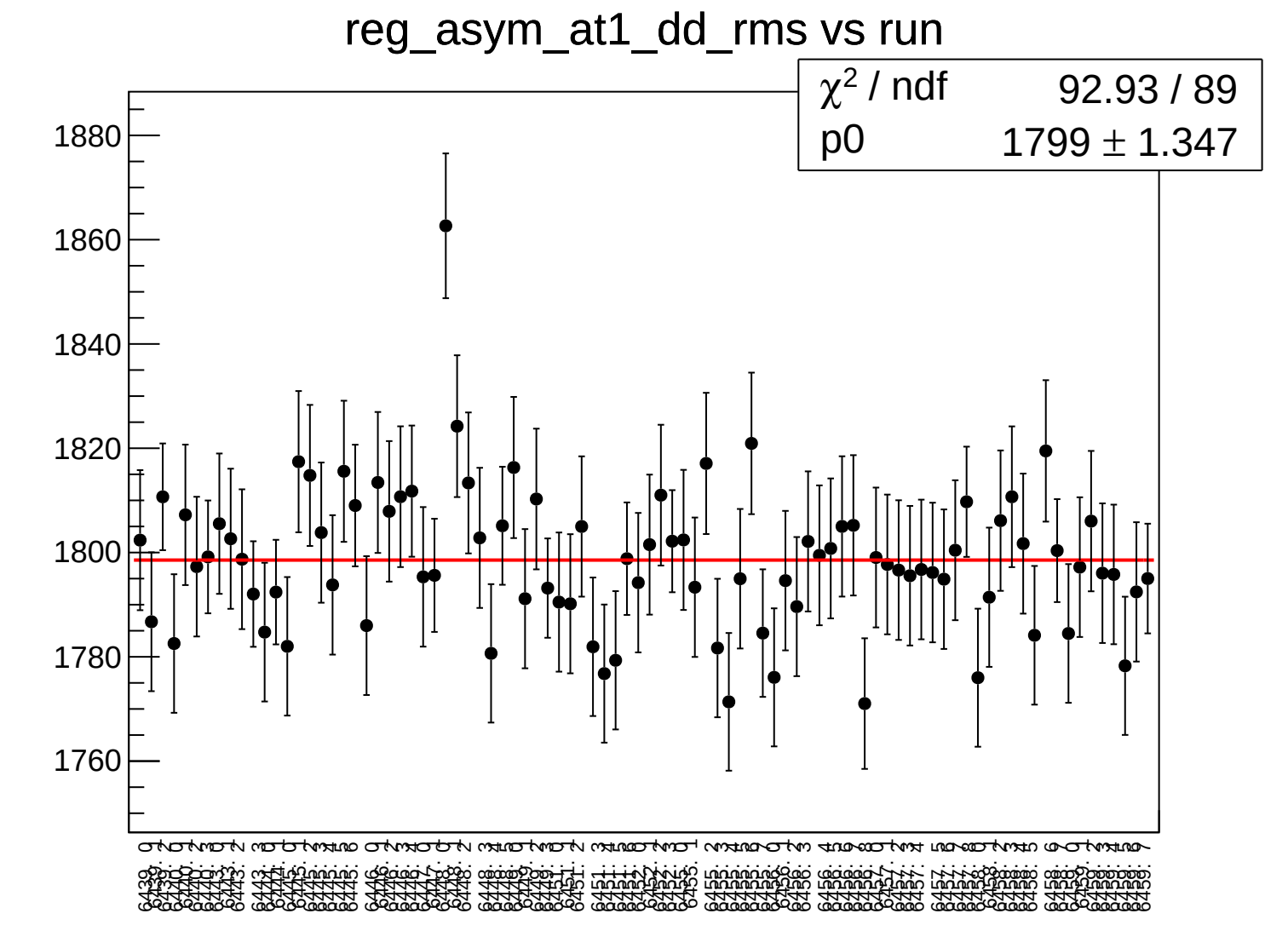

asym_at1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 70.42 / 89
p0 1.166e−14 ± 1.464e−14
pull
Entries 90
Mean 35.68
Std Dev 43.26

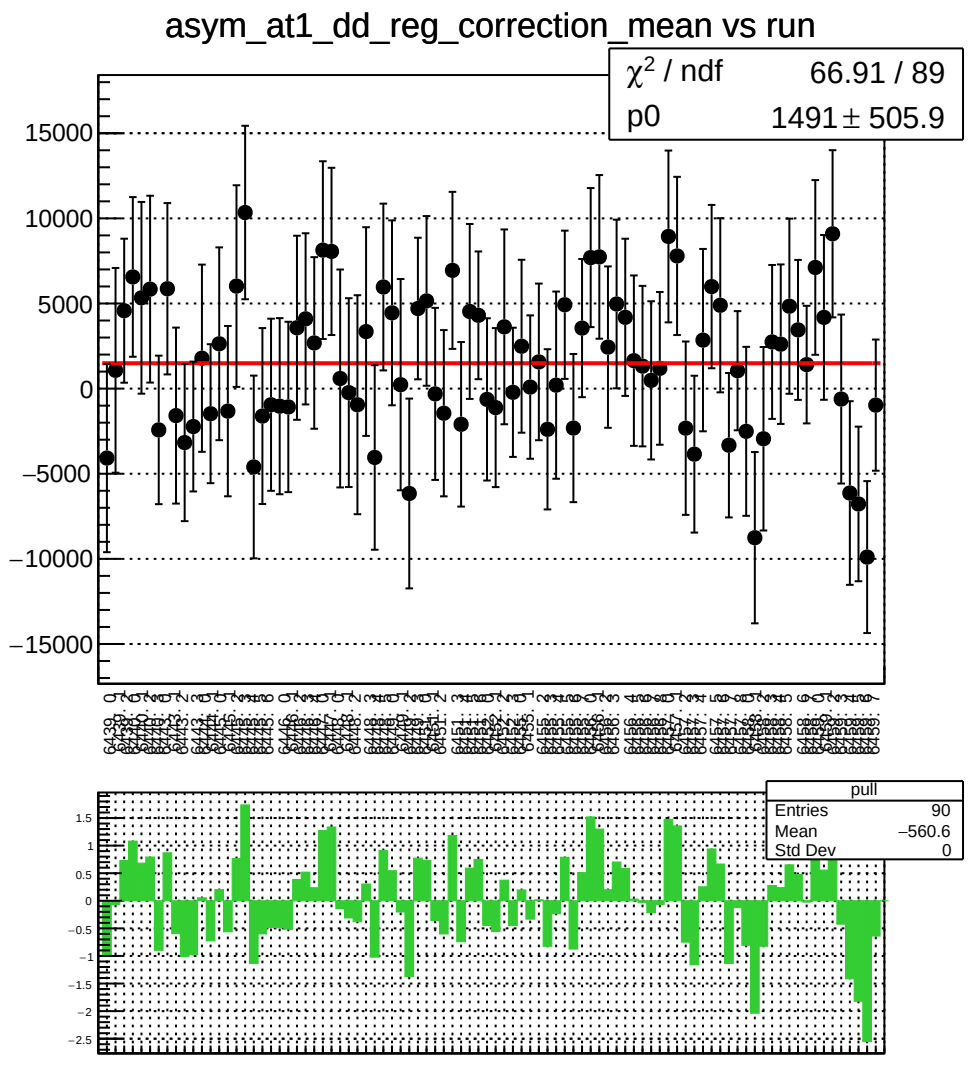

pull1D
Entries 90
Mean 0.03305
Std Dev 0.8839

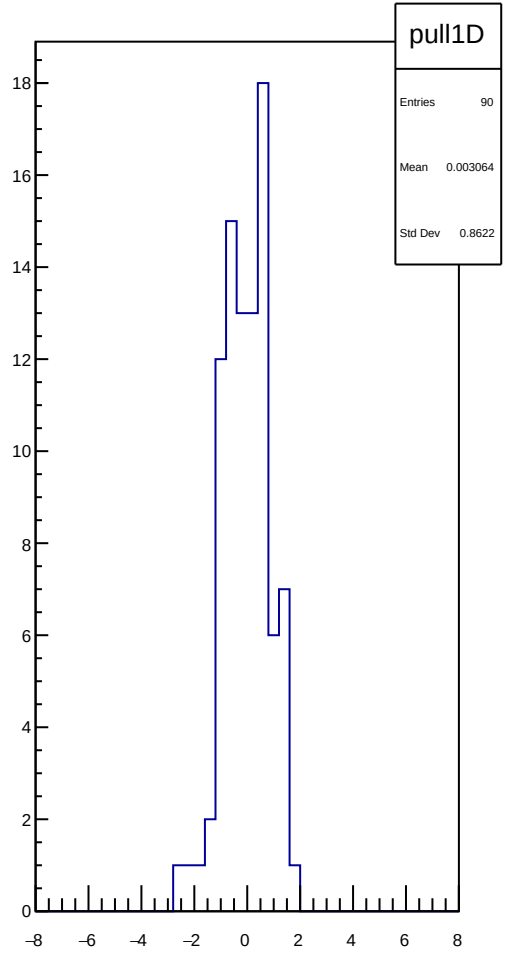

asym_at1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.28e+05 / 89
p0 1.063e−11 ± 1.035e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

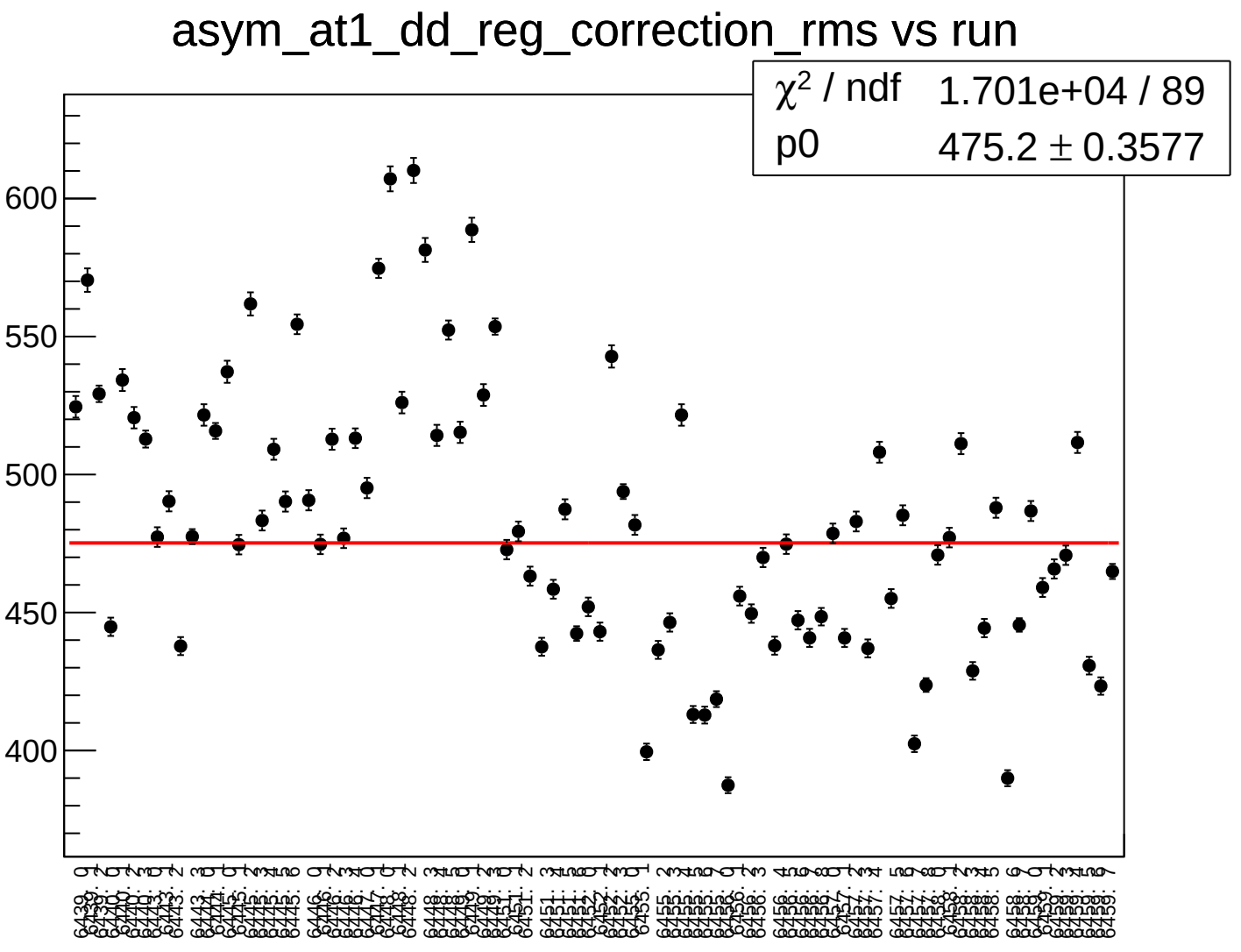

reg_asym_at1_dd_mean vs run
χ² / ndf 102.2 / 89
p0 902.2 ± 1905
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 90
Mean 227.7
Std Dev 0
2
1
0
−1
−2
−3

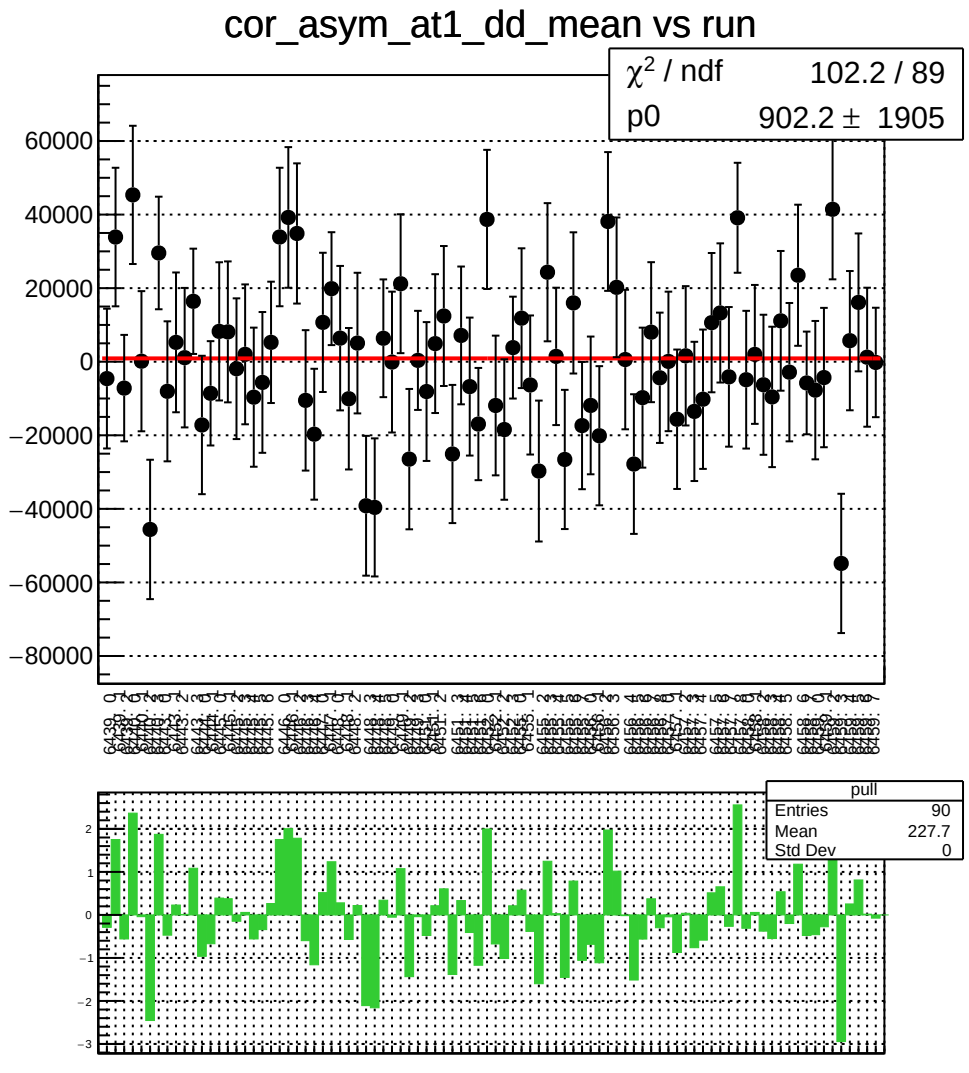

pull1D
Entries 90
Mean −0.009669
Std Dev 1.066
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

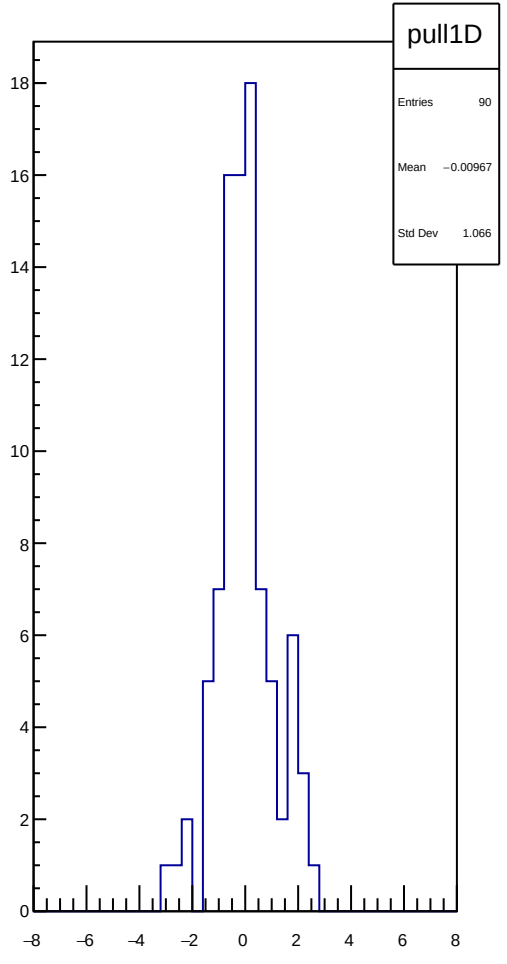

reg_asym_at1_dd_rms vs run
χ² / ndf 92.93 / 89
p0 1799 ± 1.347
1880
1860
1840
1820
1800
1780
1760

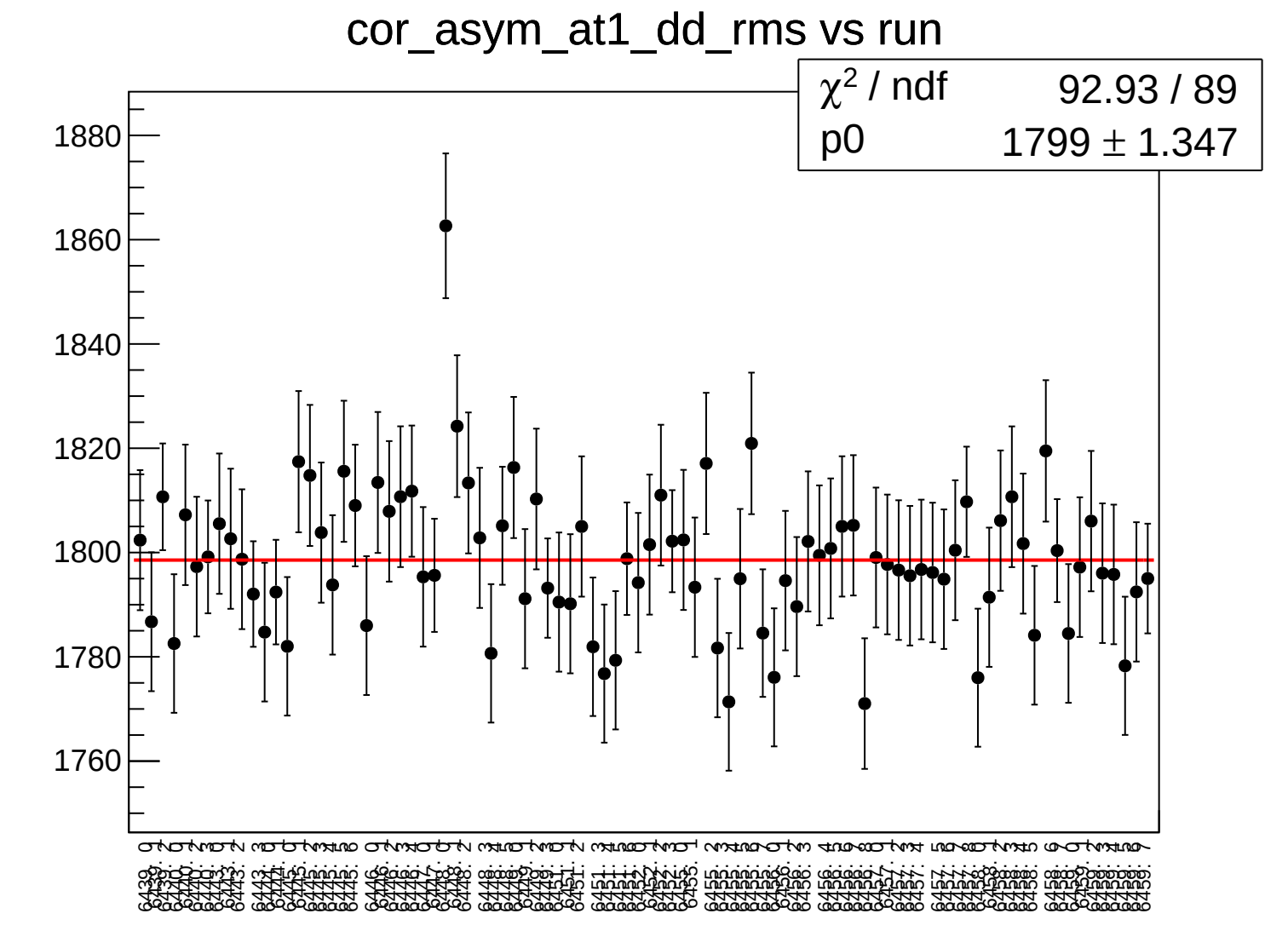

asym_at1_dd_reg_correction_mean vs run
χ² / ndf 66.91 / 89
p0 1491 ± 505.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 90
Mean −560.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

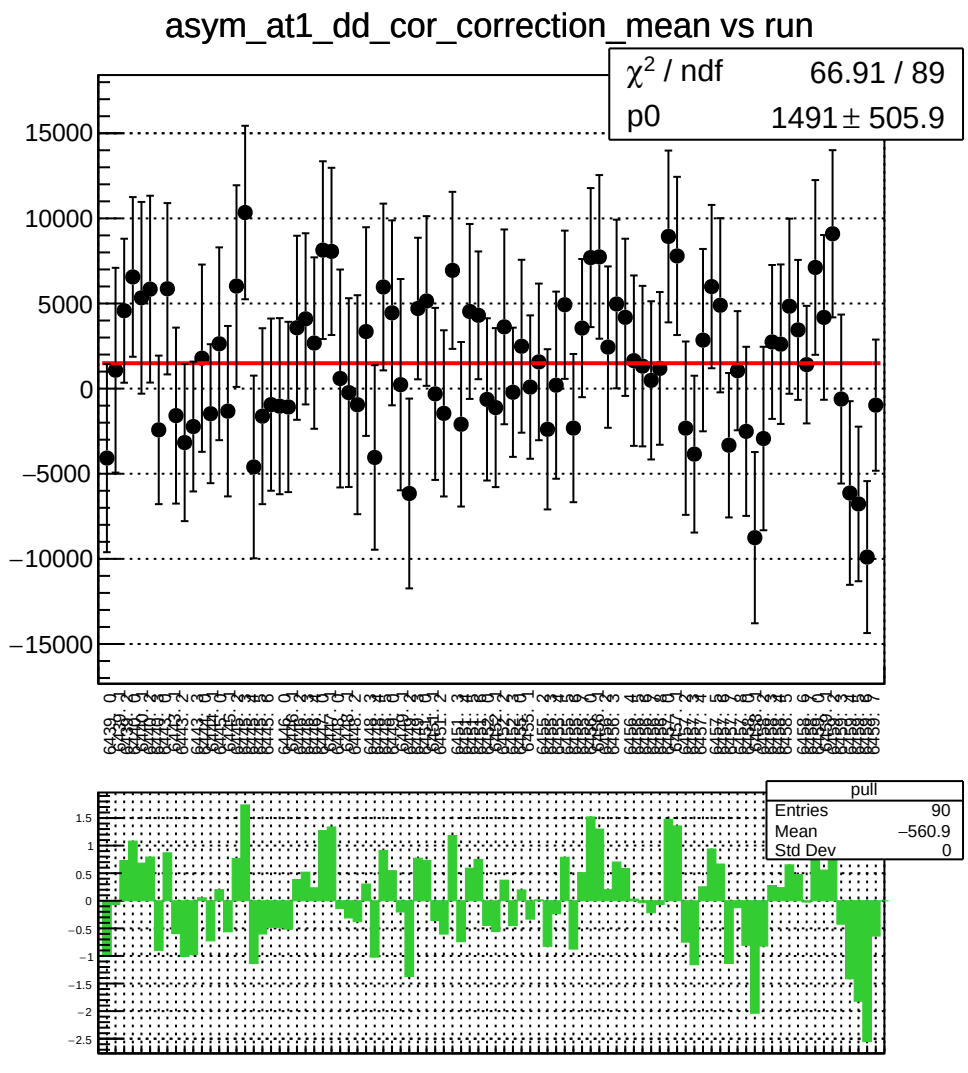

pull1D
Entries 90
Mean 0.003064
Std Dev 0.8622
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

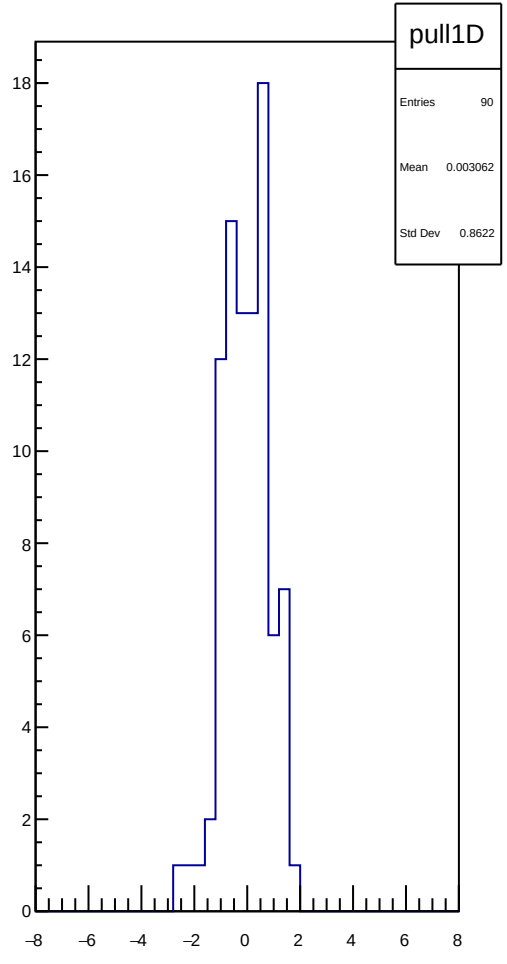

asym_at1_dd_reg_correction_rms vs run
χ^2 / ndf 1.701e+04 / 89
p0 475.2 ± 0.3577
600
550
500
450
400

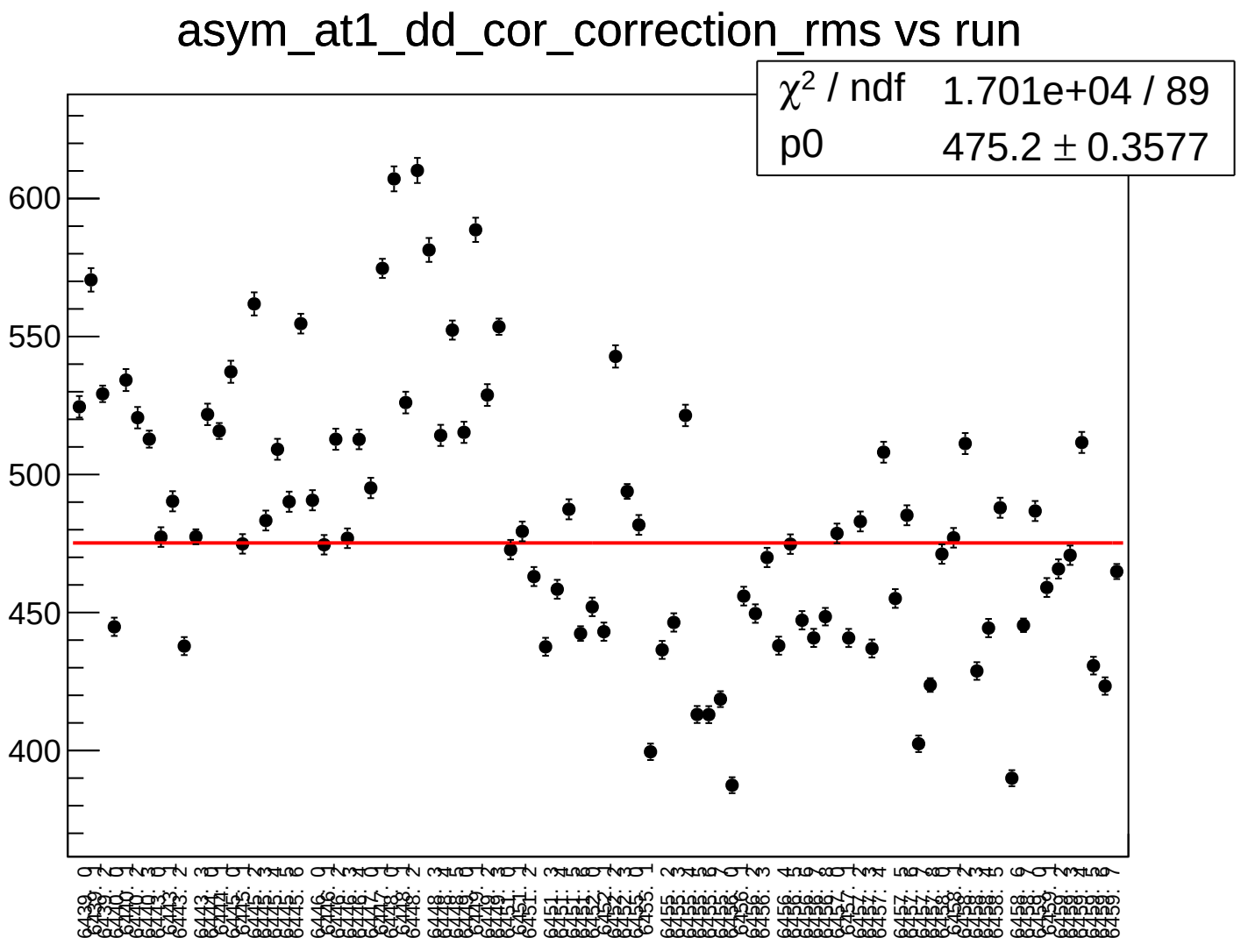

cor_asym_at1_dd_mean vs run
χ² / ndf 102.2 / 89
p0 902.2 ± 1905
pull
Entries 90
Mean 227.7
Std Dev 0

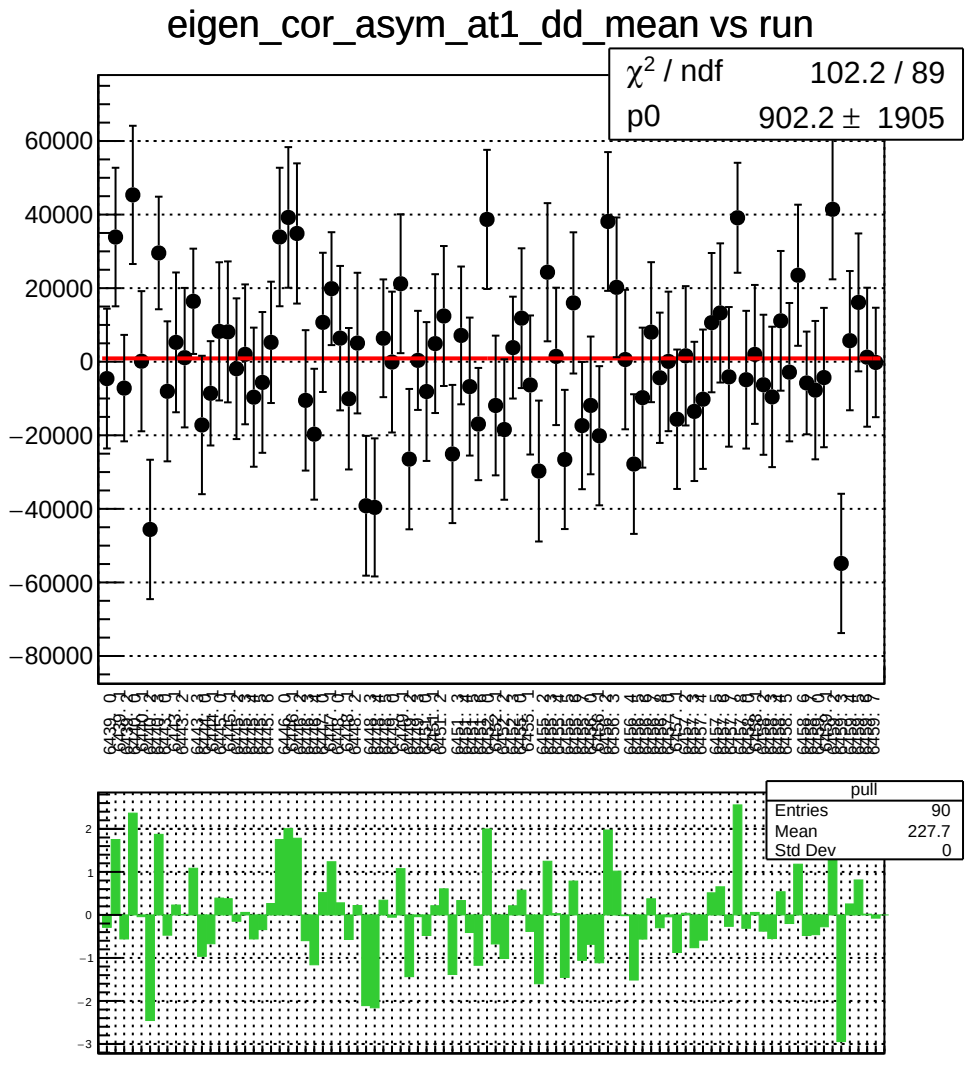

pull1D
Entries 90
Mean −0.00967
Std Dev 1.066

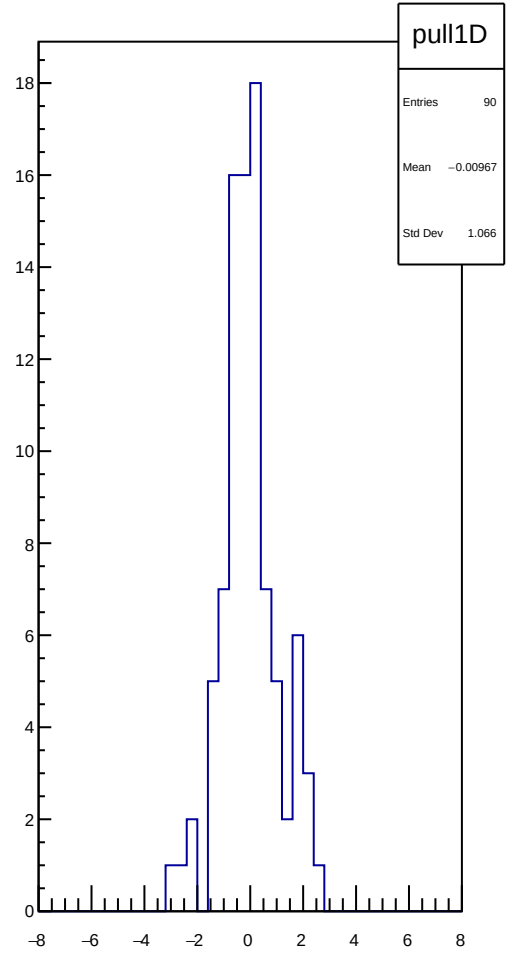

cor_asym_at1_dd_rms vs run
χ^2 / ndf 92.93 / 89
p0 1799 ± 1.347
1880
1860
1840
1820
1800
1780
1760

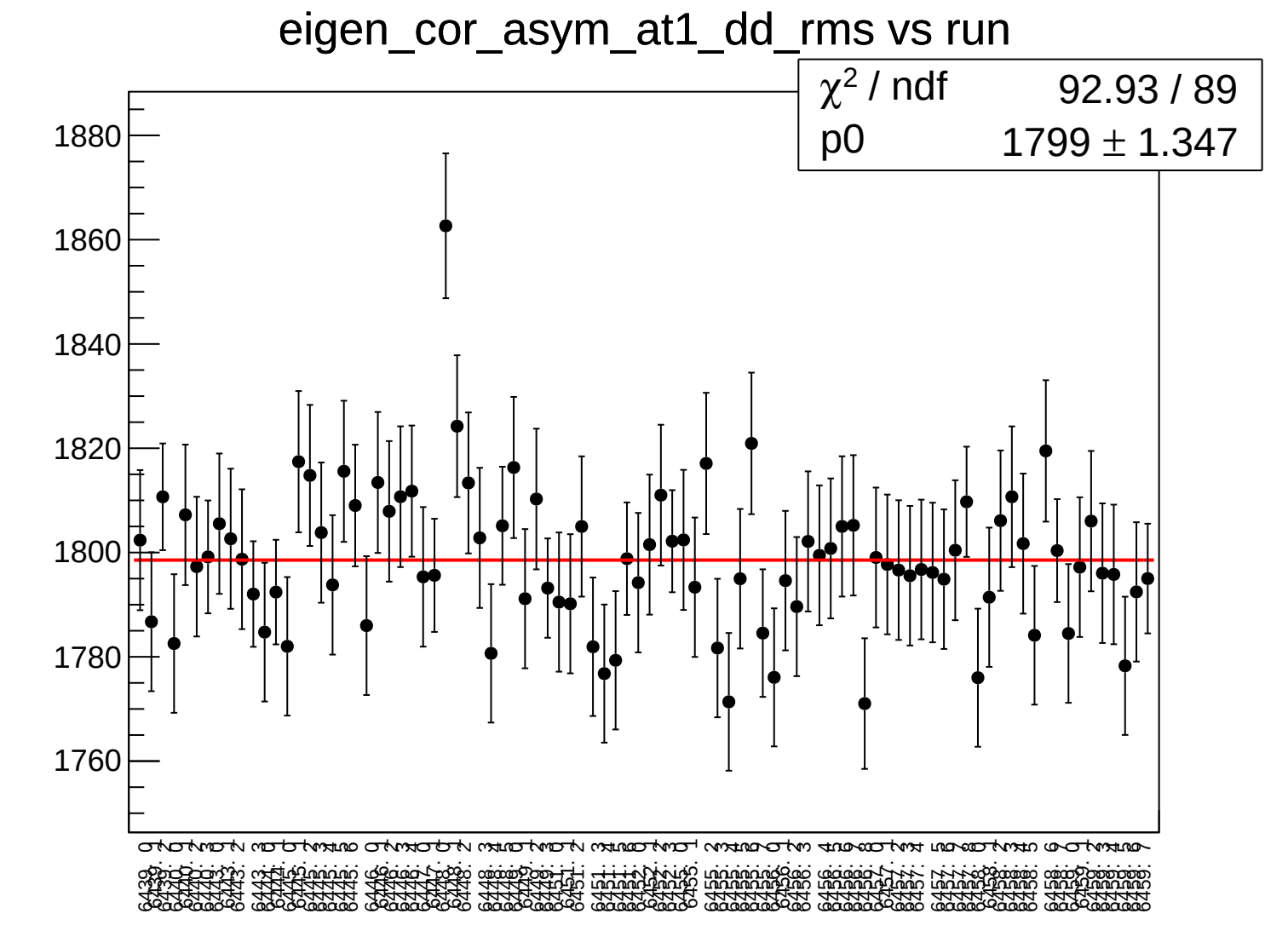

asym_at1_dd_cor_correction_mean vs run
χ² / ndf 66.91 / 89
p0 1491 ± 505.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 90
Mean −560.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

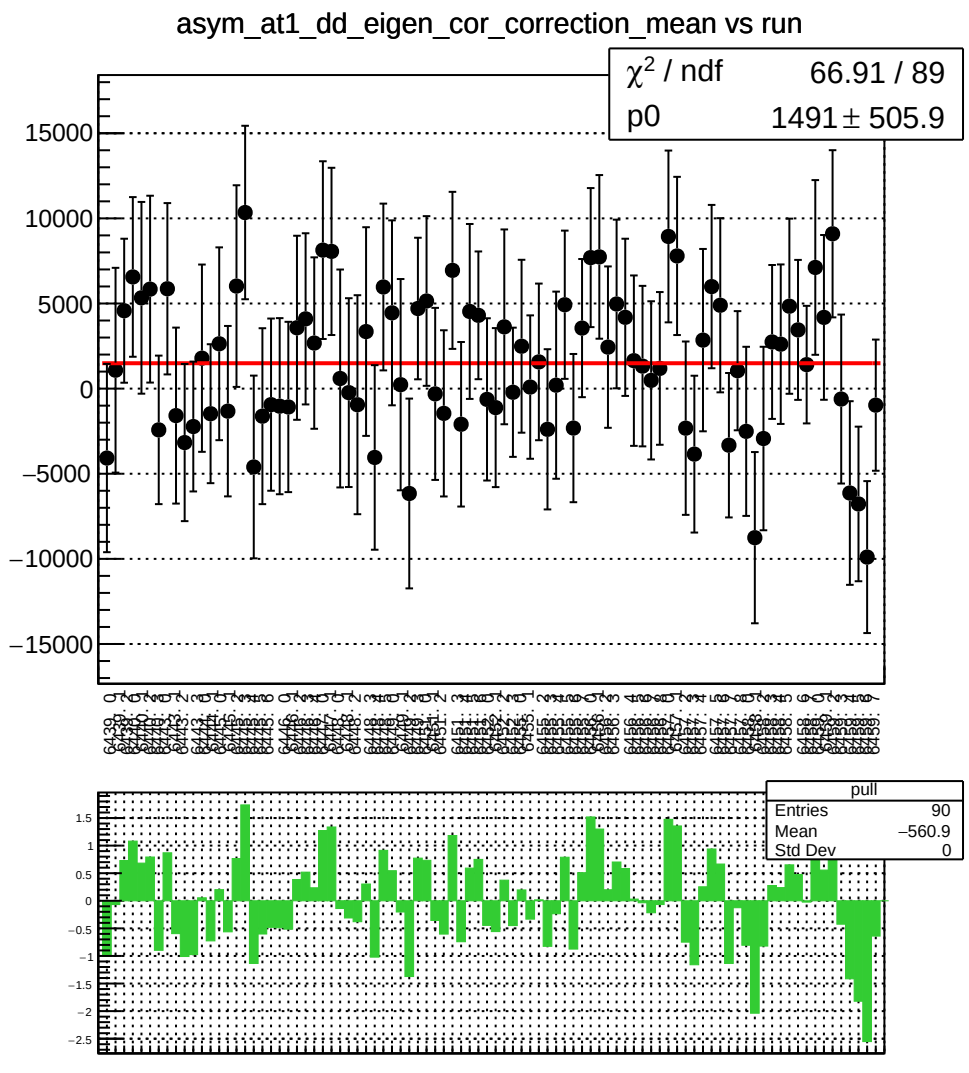

pull1D
Entries 90
Mean 0.003062
Std Dev 0.8622
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

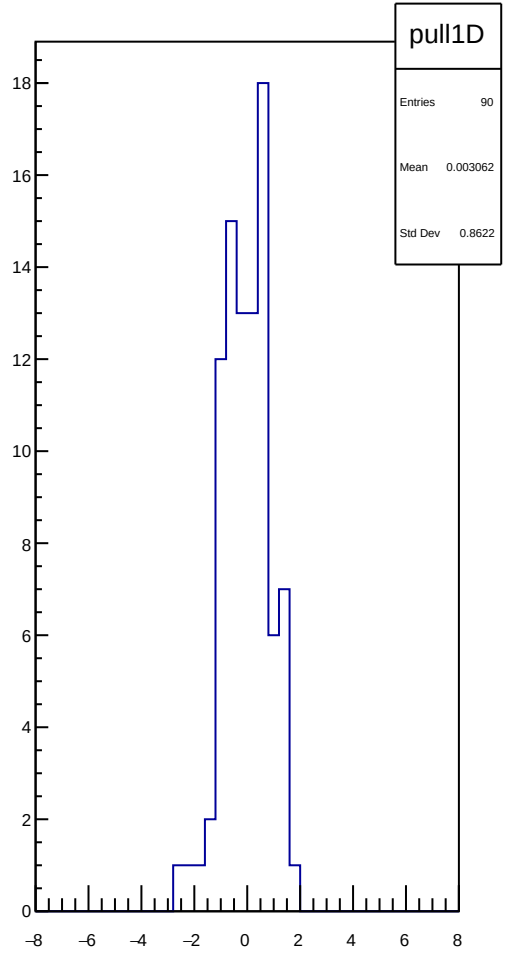

asym_at1_dd_cor_correction_rms vs run
χ² / ndf 1.701e+04 / 89
p0 475.2 ± 0.3577
600
550
500
450
400

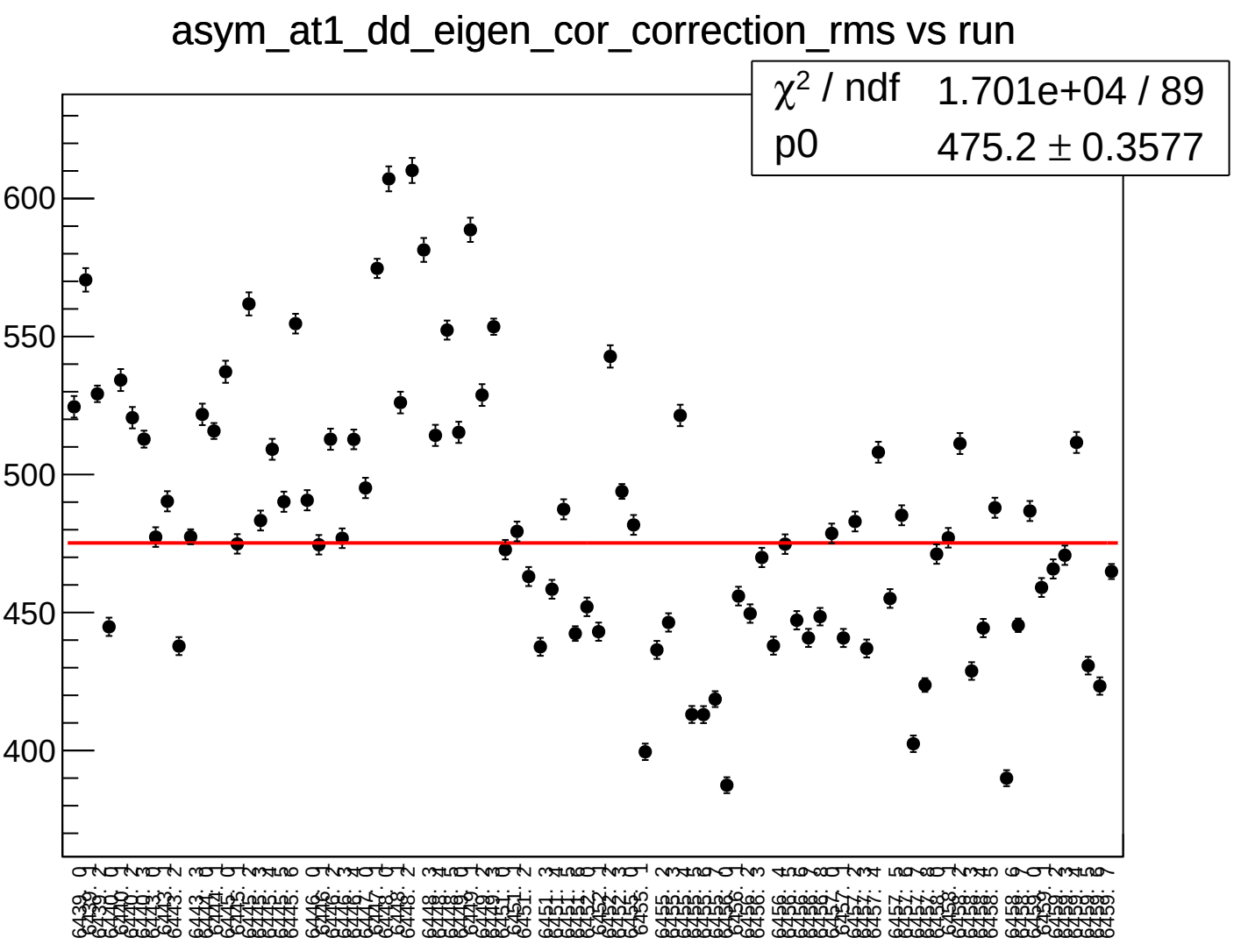

eigen_cor_asym_at1_dd_mean vs run
χ² / ndf 102.2 / 89
p0 902.2 ± 1905
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 90
Mean 227.7
Std Dev 0
2
1
0
−1
−2
−3

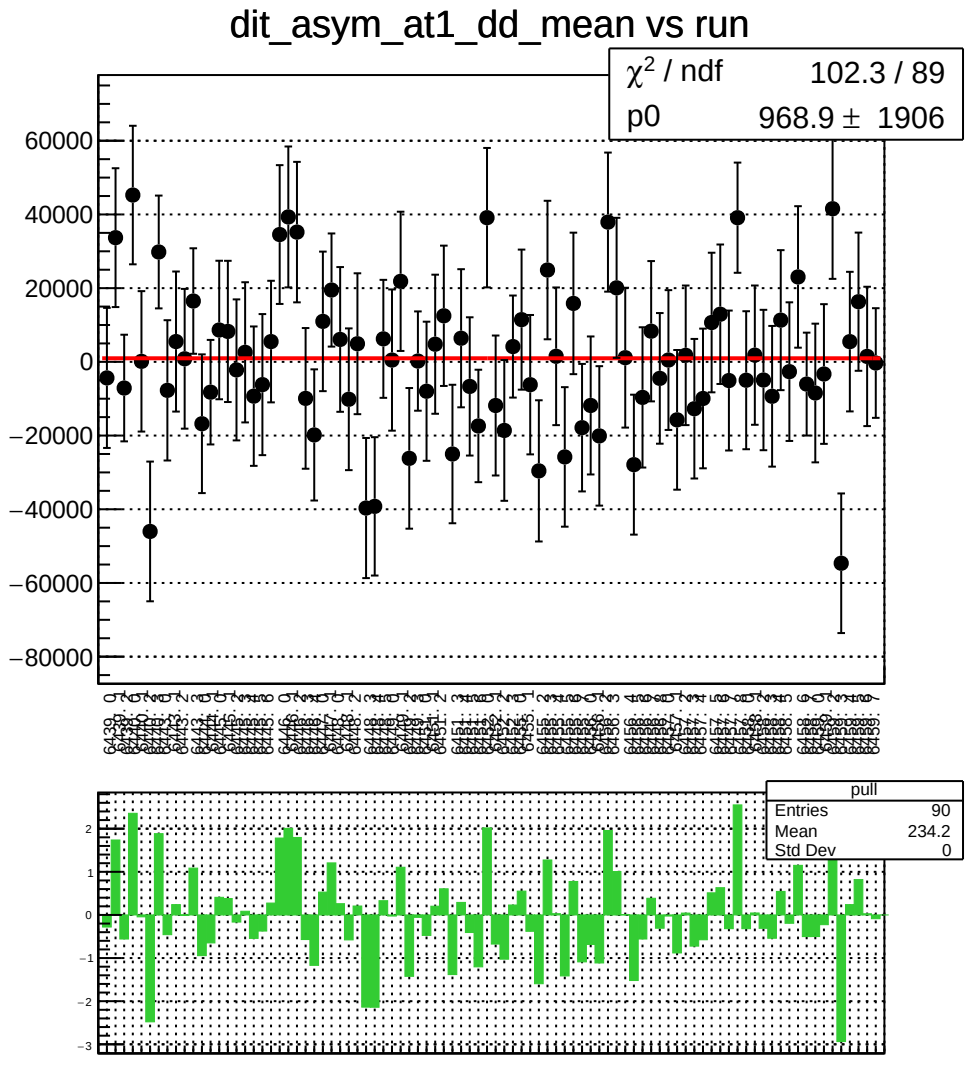

pull1D
Entries 90
Mean −0.00967
Std Dev 1.066
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

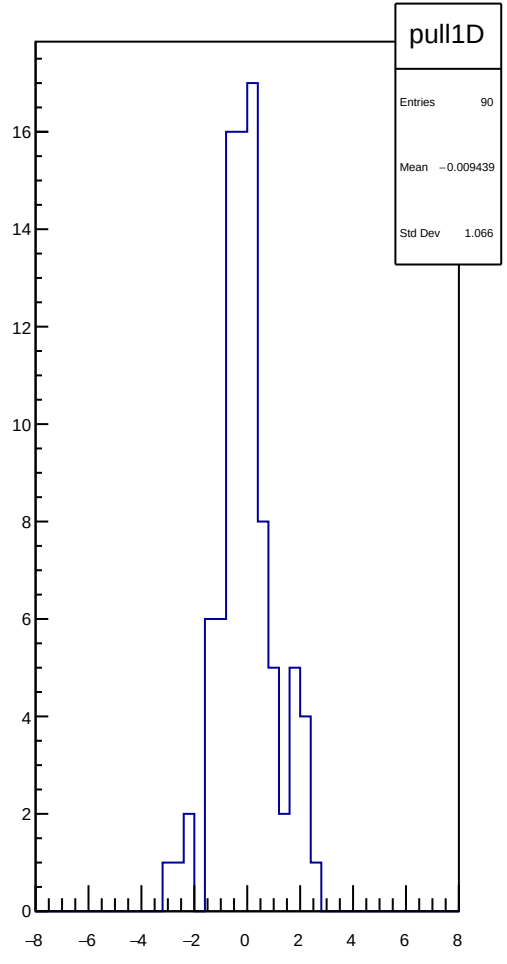

eigen_cor_asym_at1_dd_rms vs run
χ² / ndf 92.93 / 89
p0 1799 ± 1.347
1880
1860
1840
1820
1800
1780
1760

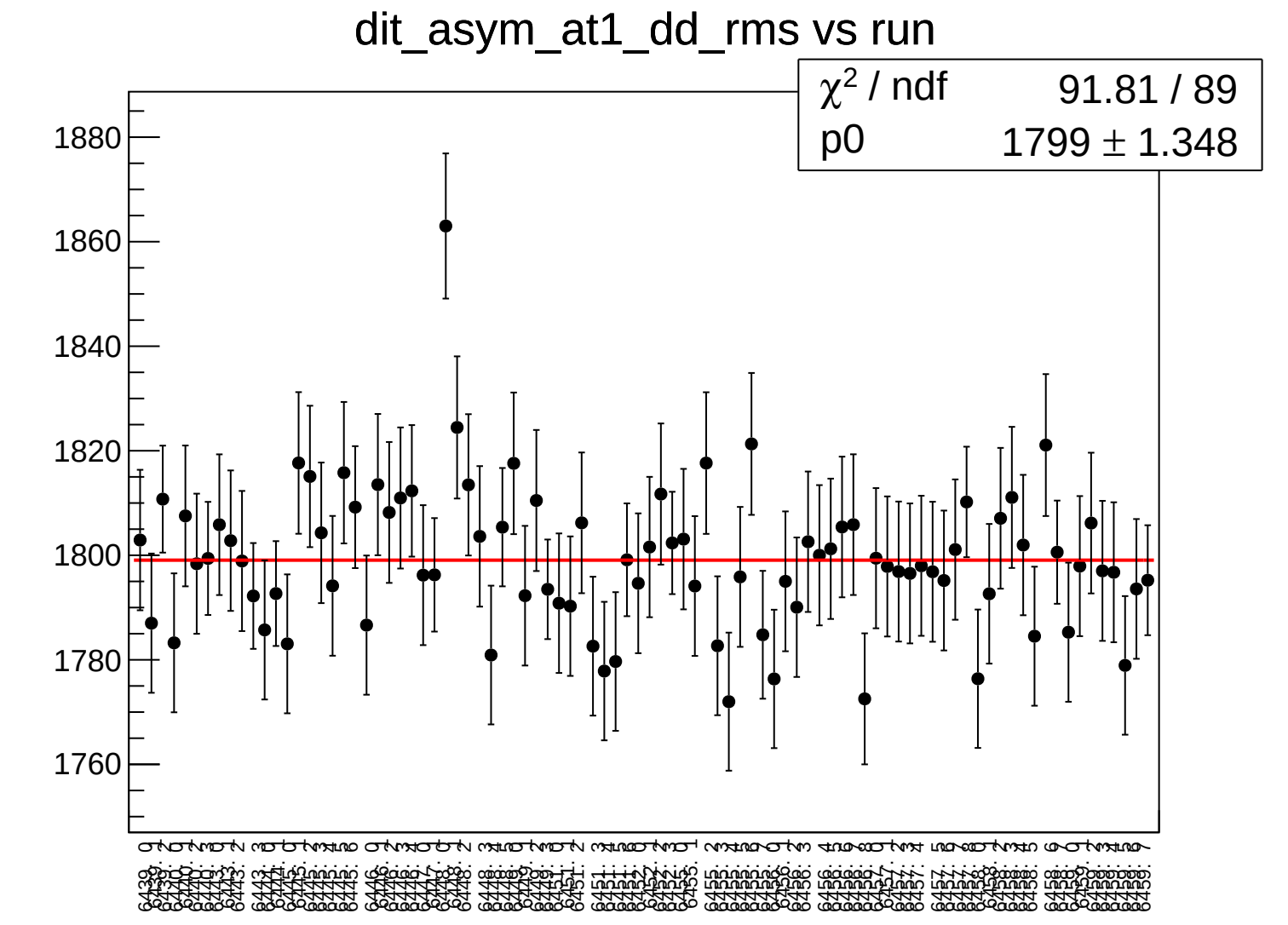

asym_at1_dd_eigen_cor_correction_mean vs run
χ² / ndf 66.91 / 89
p0 1491 ± 505.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 90
Mean −560.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

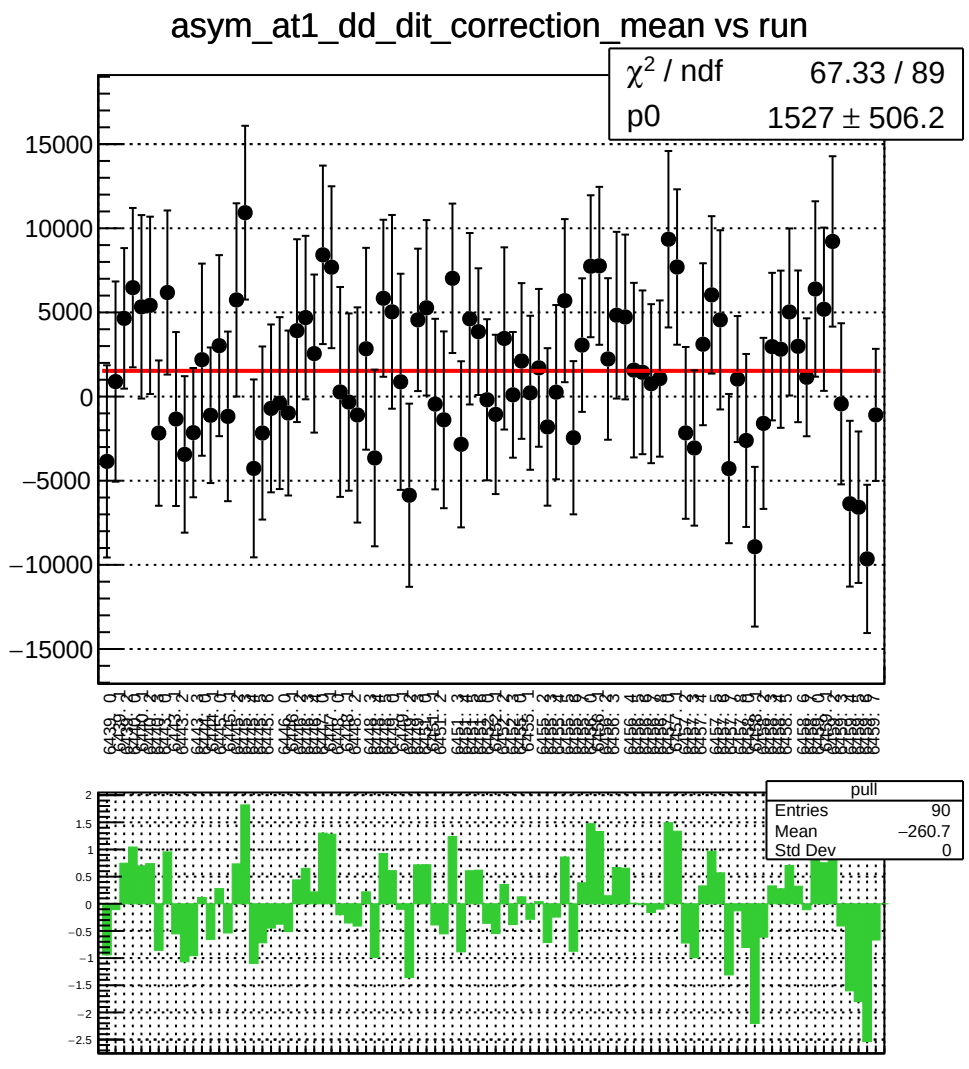

pull1D
Entries 90
Mean 0.003062
Std Dev 0.8622
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

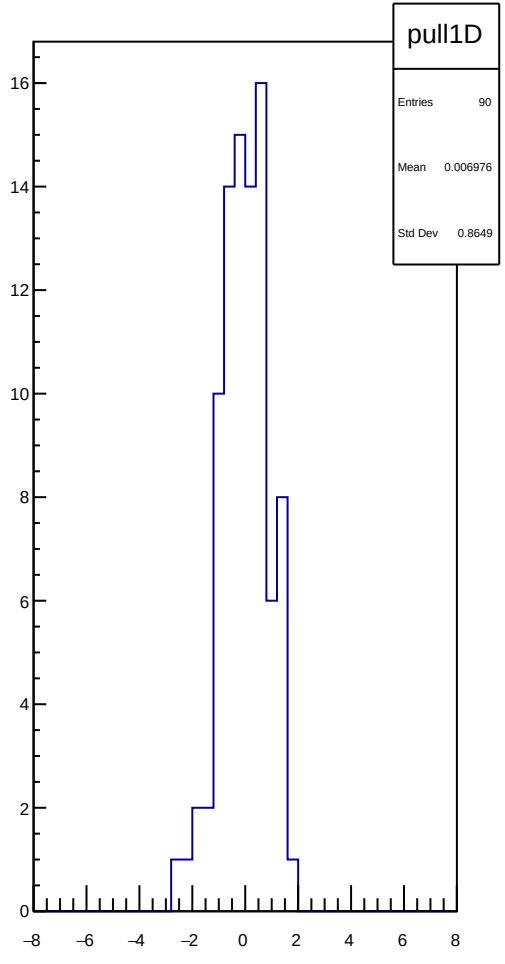

asym_at1_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.701e+04 / 89
p0 475.2 ± 0.3577
600
550
500
450
400

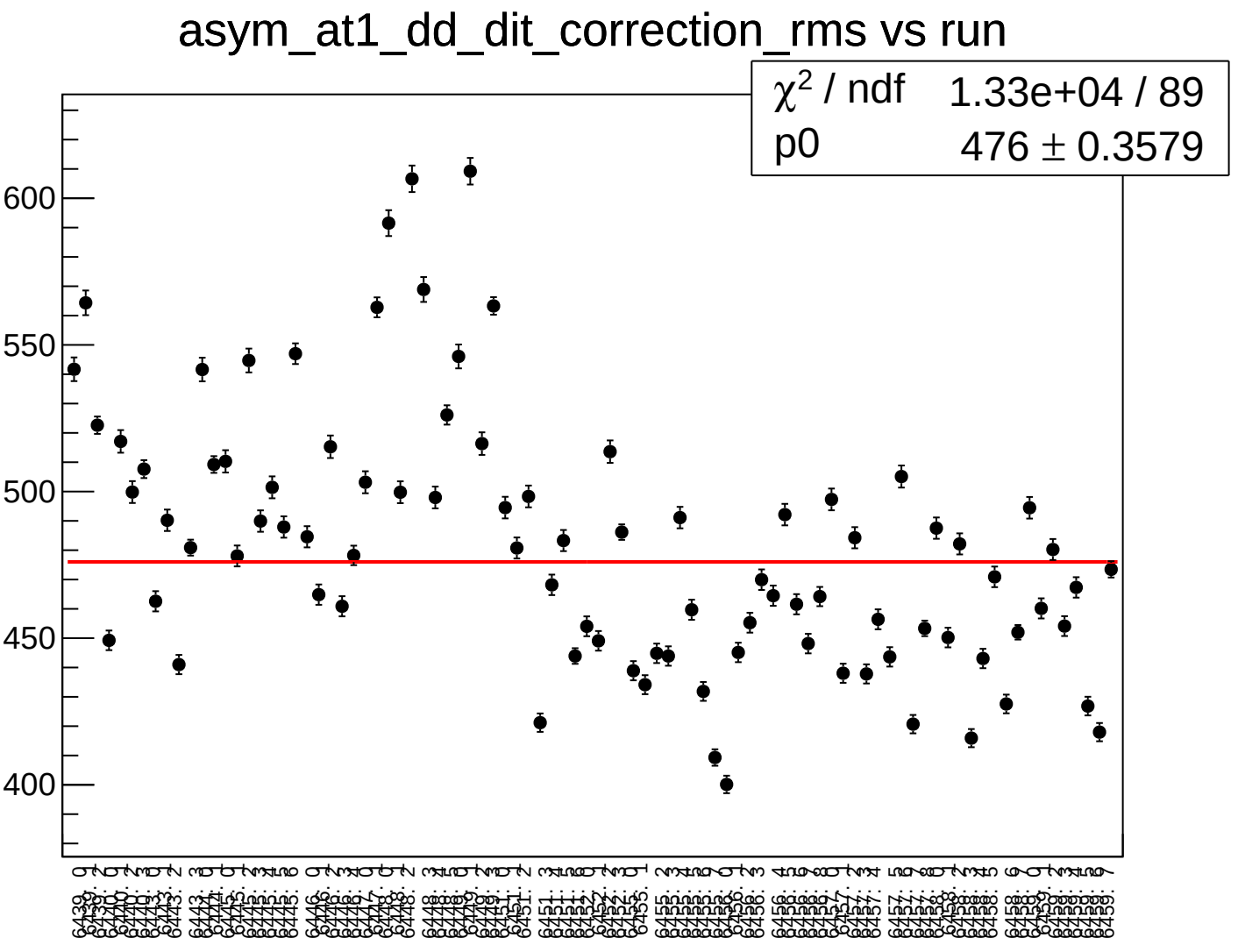

dit_asym_at1_dd_mean vs run
χ² / ndf 102.3 / 89
p0 968.9 ± 1906
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 90
Mean 234.2
Std Dev 0
2
1
0
−1
−2
−3

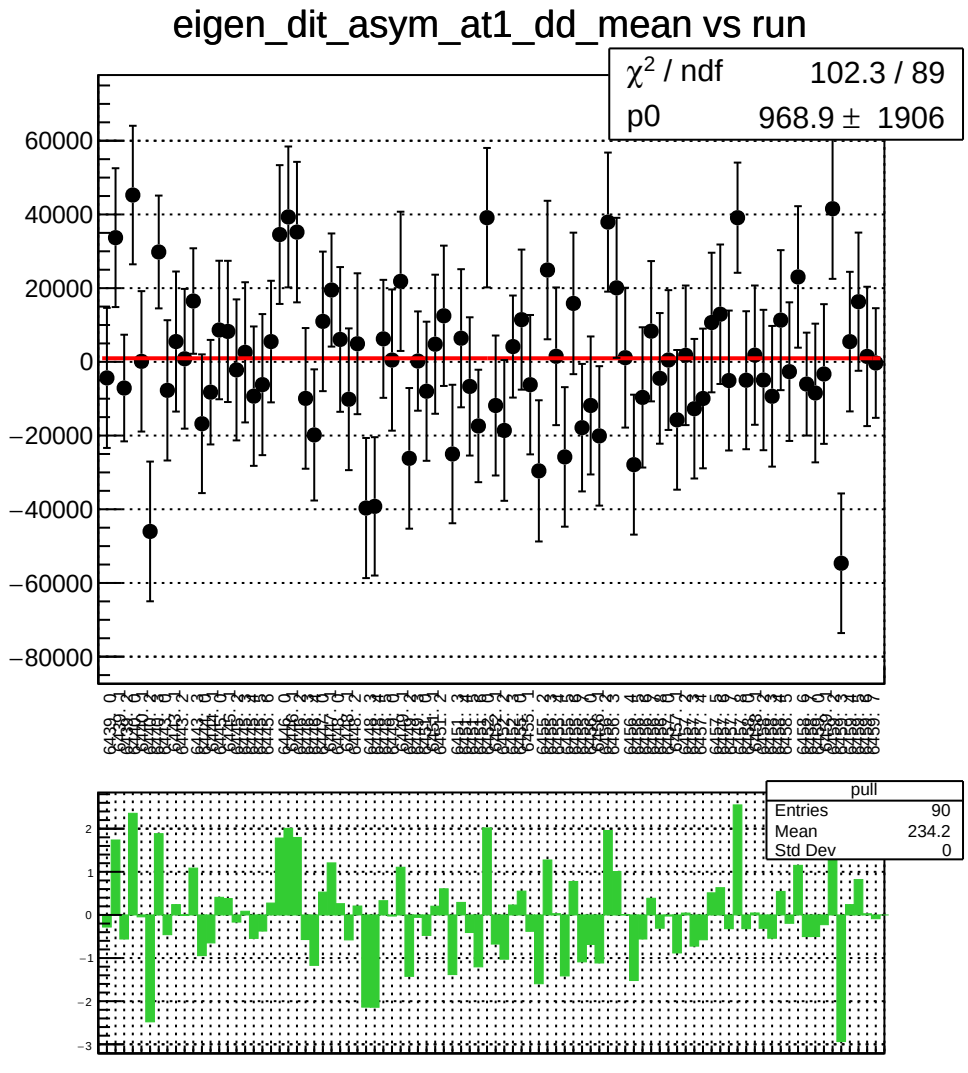

pull1D
Entries 90
Mean −0.009439
Std Dev 1.066
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

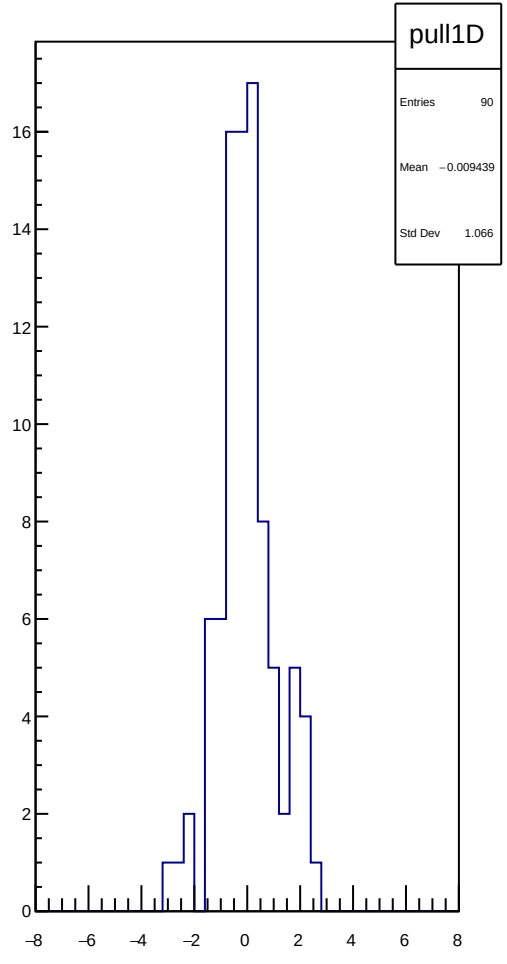

dit_asym_at1_dd_rms vs run
χ^2 / ndf 91.81 / 89
p0 1799 ± 1.348
1880
1860
1840
1820
1800
1780
1760

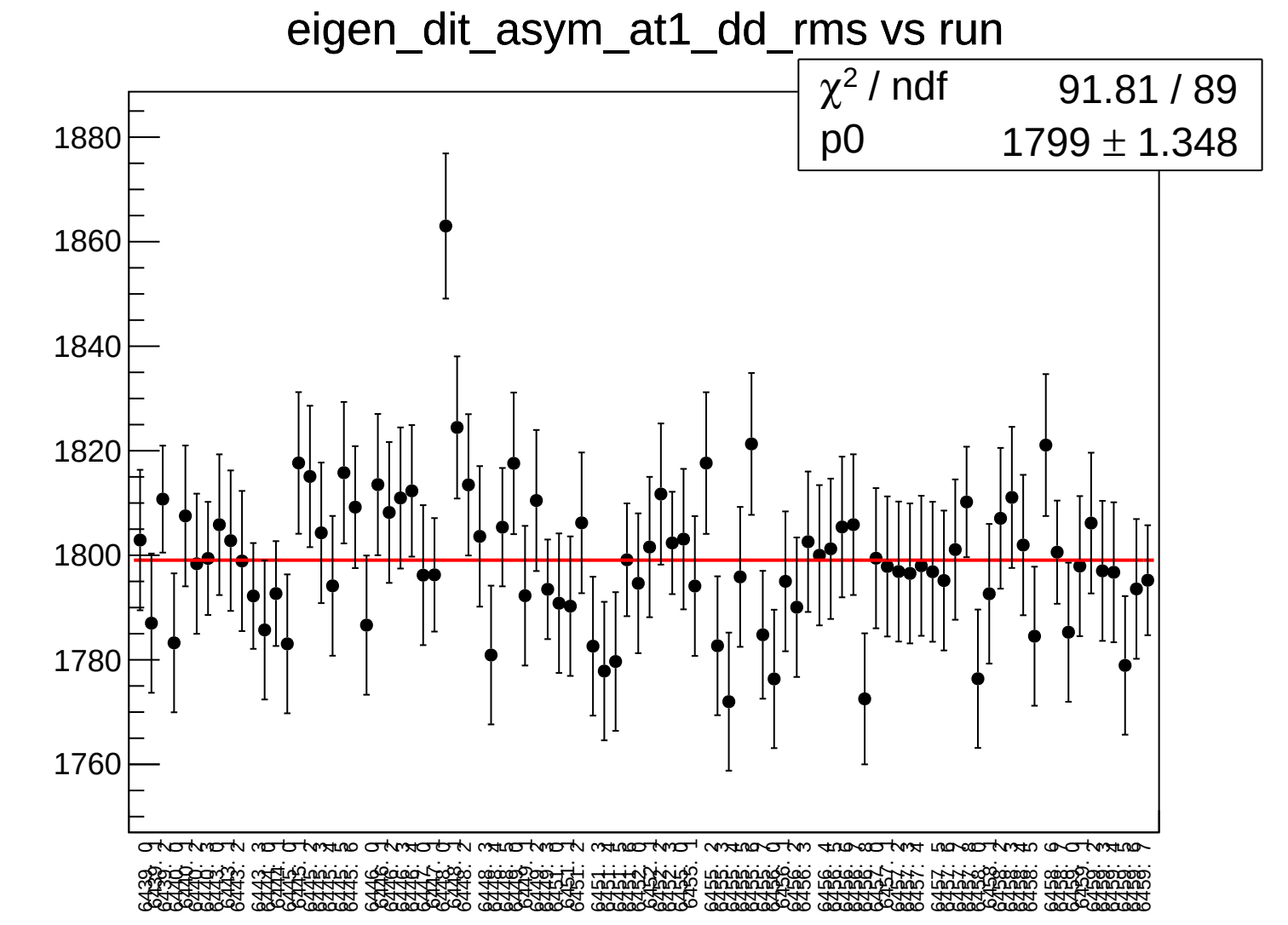

asym_at1_dd_dit_correction_mean vs run
χ² / ndf 67.33 / 89
p0 1527 ± 506.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 90
Mean −260.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

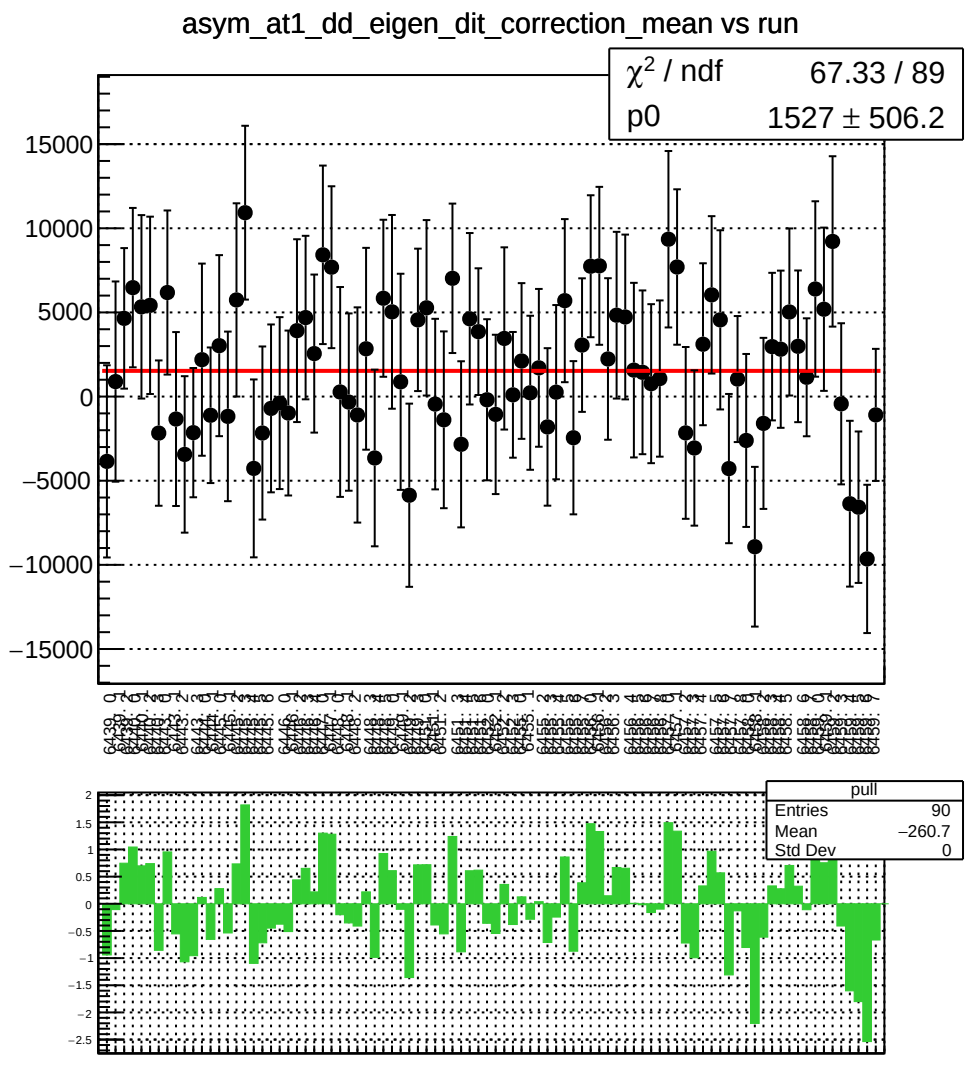

pull1D
Entries 90
Mean 0.006976
Std Dev 0.8649
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

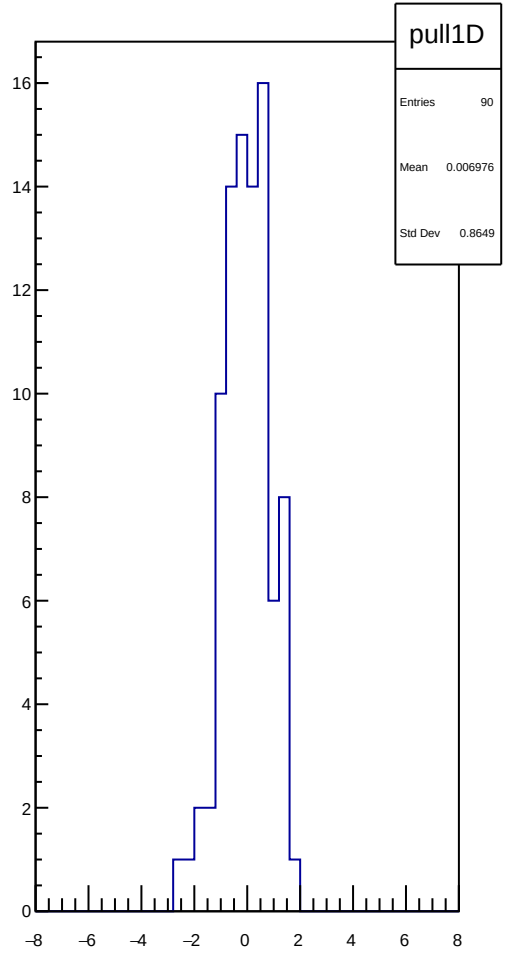

asym_at1_dd_dit_correction_rms vs run
χ² / ndf 1.33e+04 / 89
p0 476 ± 0.3579
600
550
500
450
400

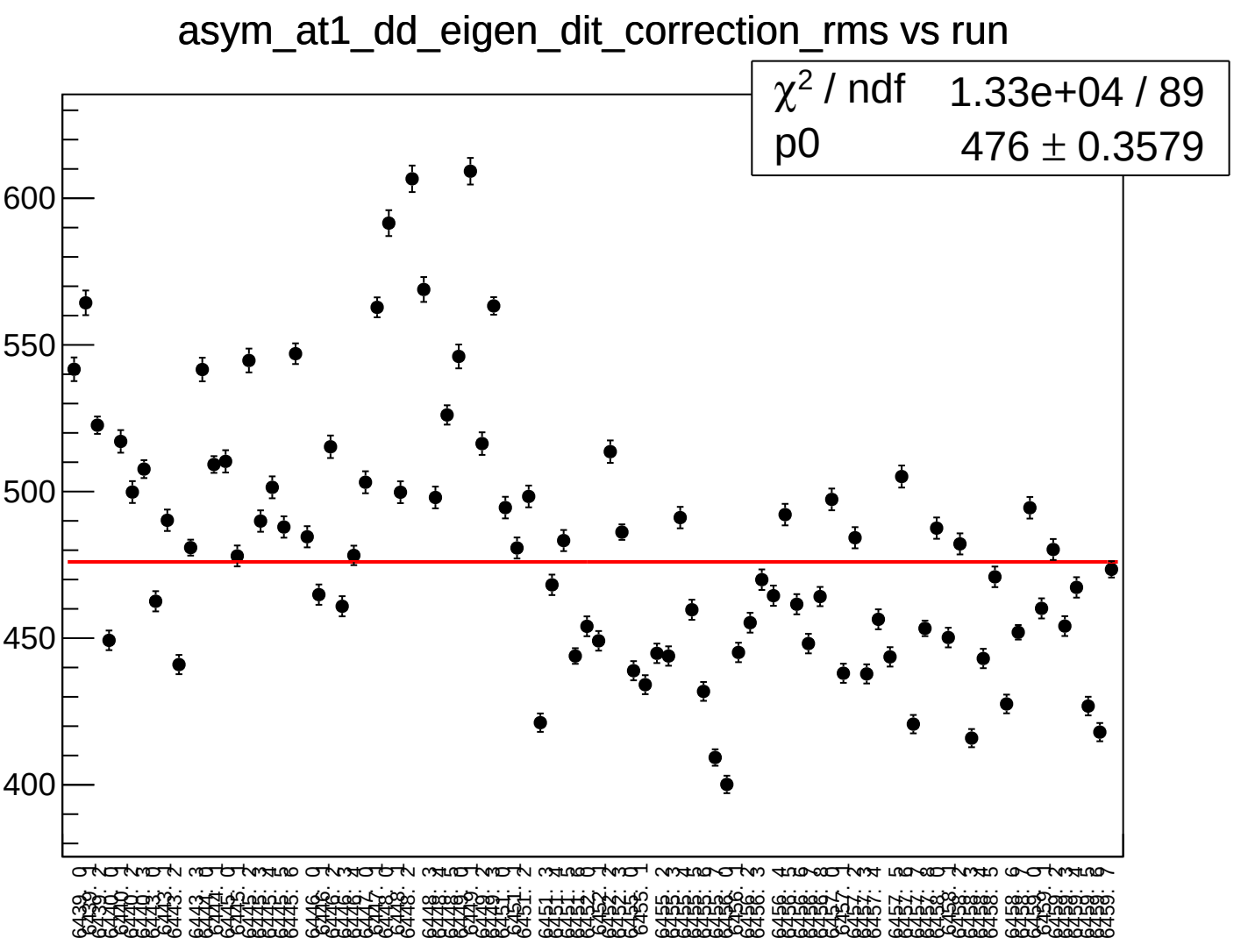

eigen_dit_asym_at1_dd_mean vs run
χ² / ndf 102.3 / 89
p0 968.9 ± 1906
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 90
Mean 234.2
Std Dev 0
2
1
0
−1
−2
−3

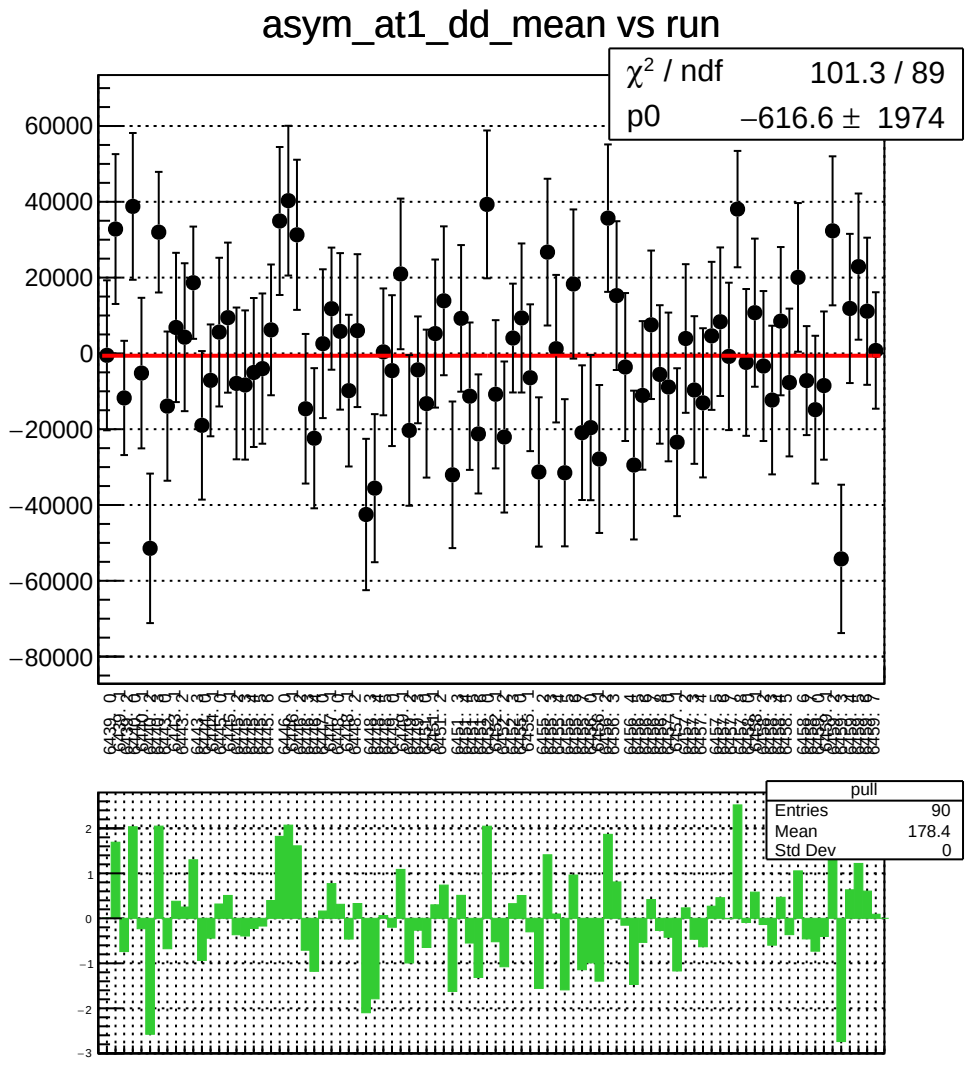

pull1D
Entries 90
Mean −0.009439
Std Dev 1.066
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

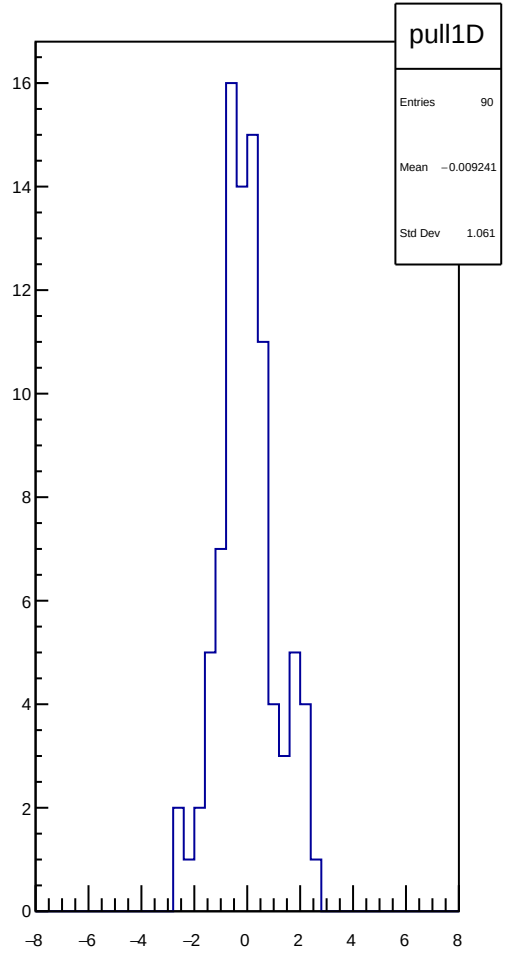

eigen_dit_asym_at1_dd_rms vs run
χ^2 / ndf 91.81 / 89
p0 1799 ± 1.348
1880
1860
1840
1820
1800
1780
1760

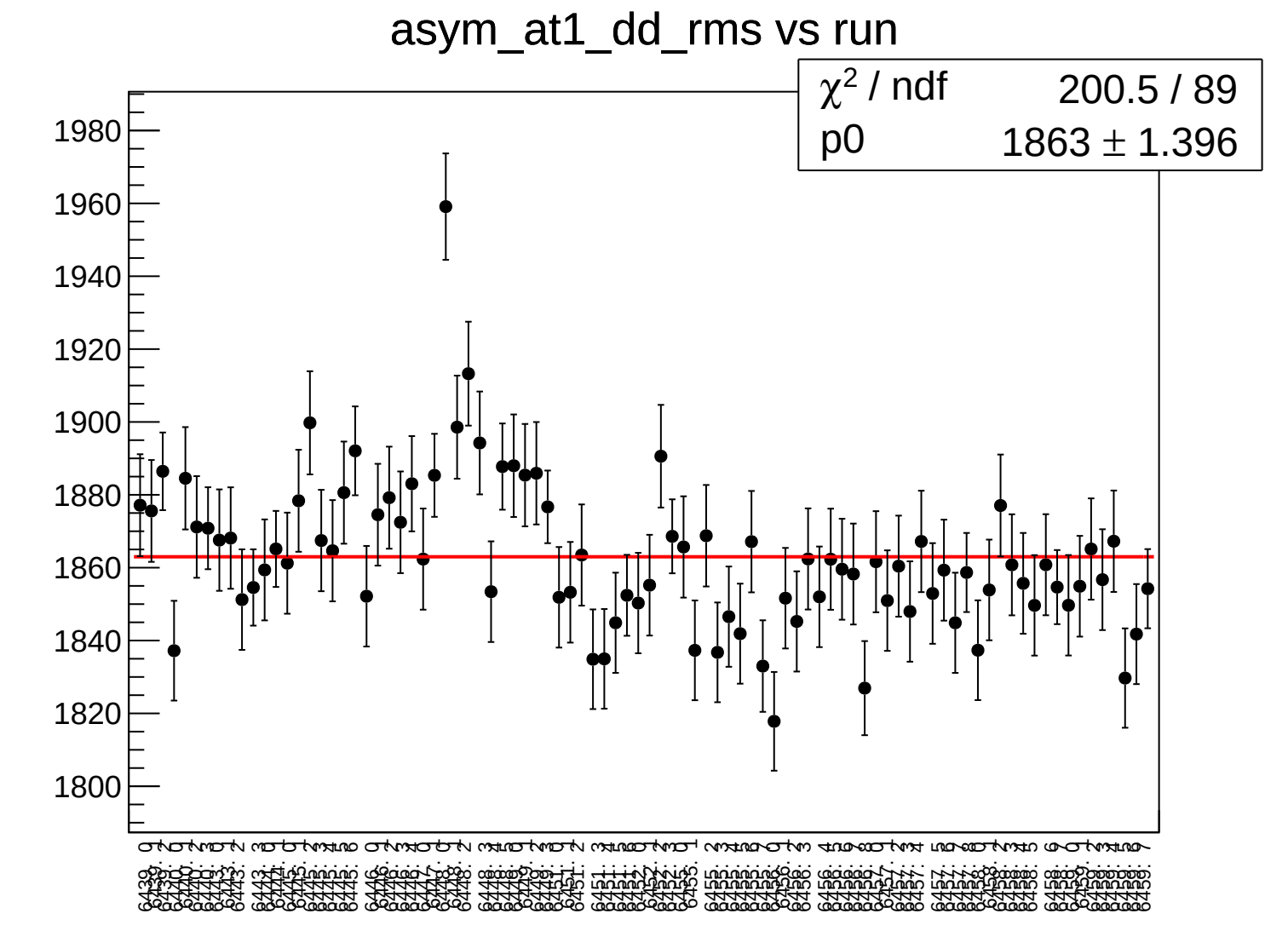

asym_at1_dd_eigen_dit_correction_mean vs run
χ² / ndf 67.33 / 89
p0 1527 ± 506.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 90
Mean −260.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

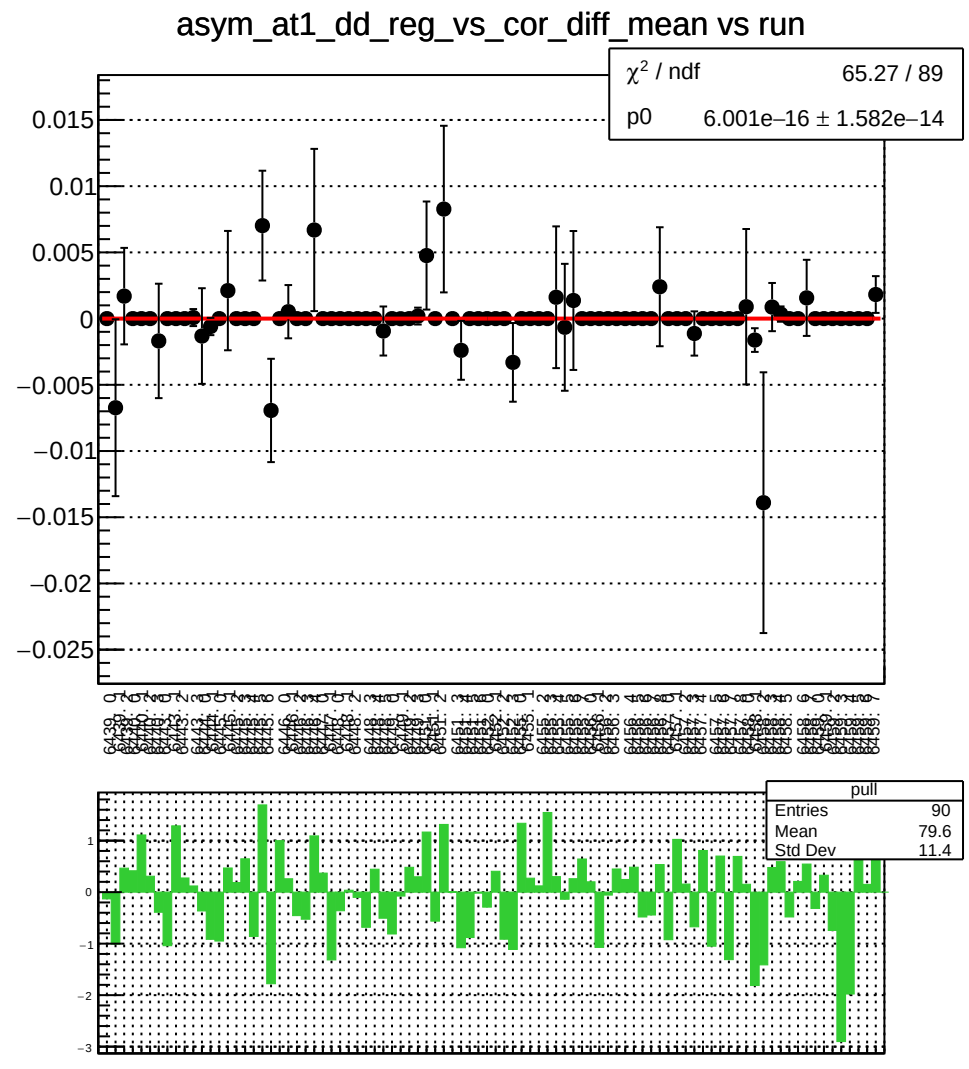

pull1D
Entries 90
Mean 0.006976
Std Dev 0.8649
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

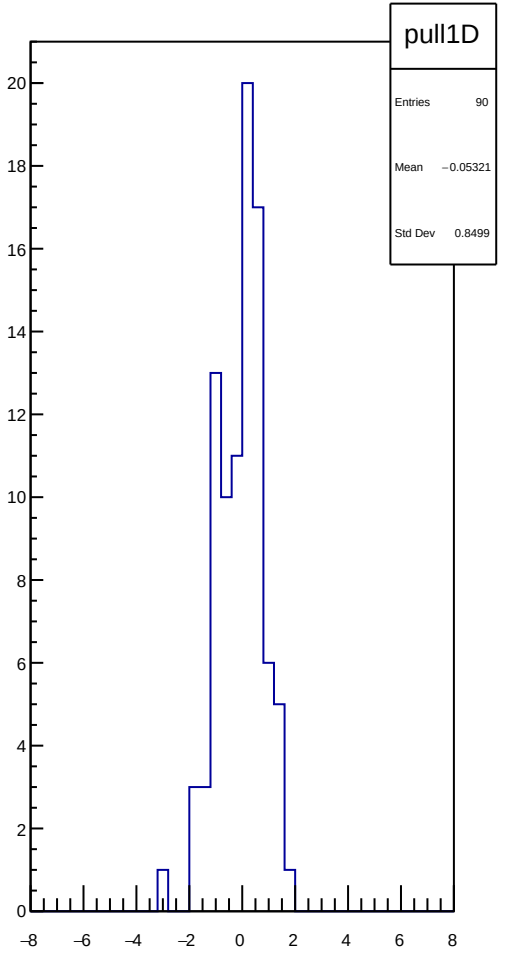

asym_at1_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.33e+04 / 89
p0 476 ± 0.3579
600
550
500
450
400

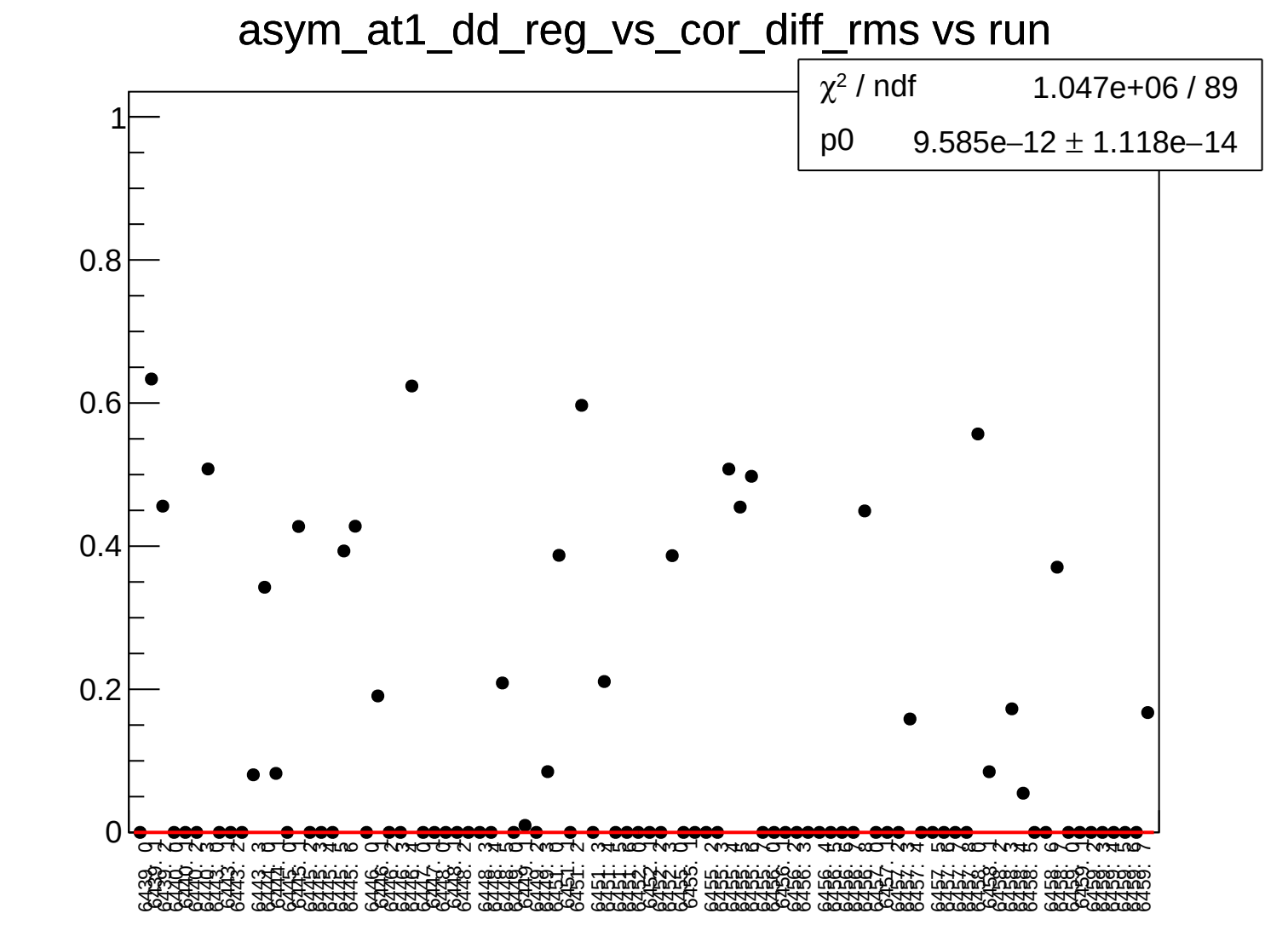

asym_at1_dd_mean vs run
χ² / ndf 101.3 / 89
p0 −616.6 ± 1974
pull
Entries 90
Mean 178.4
Std Dev 0

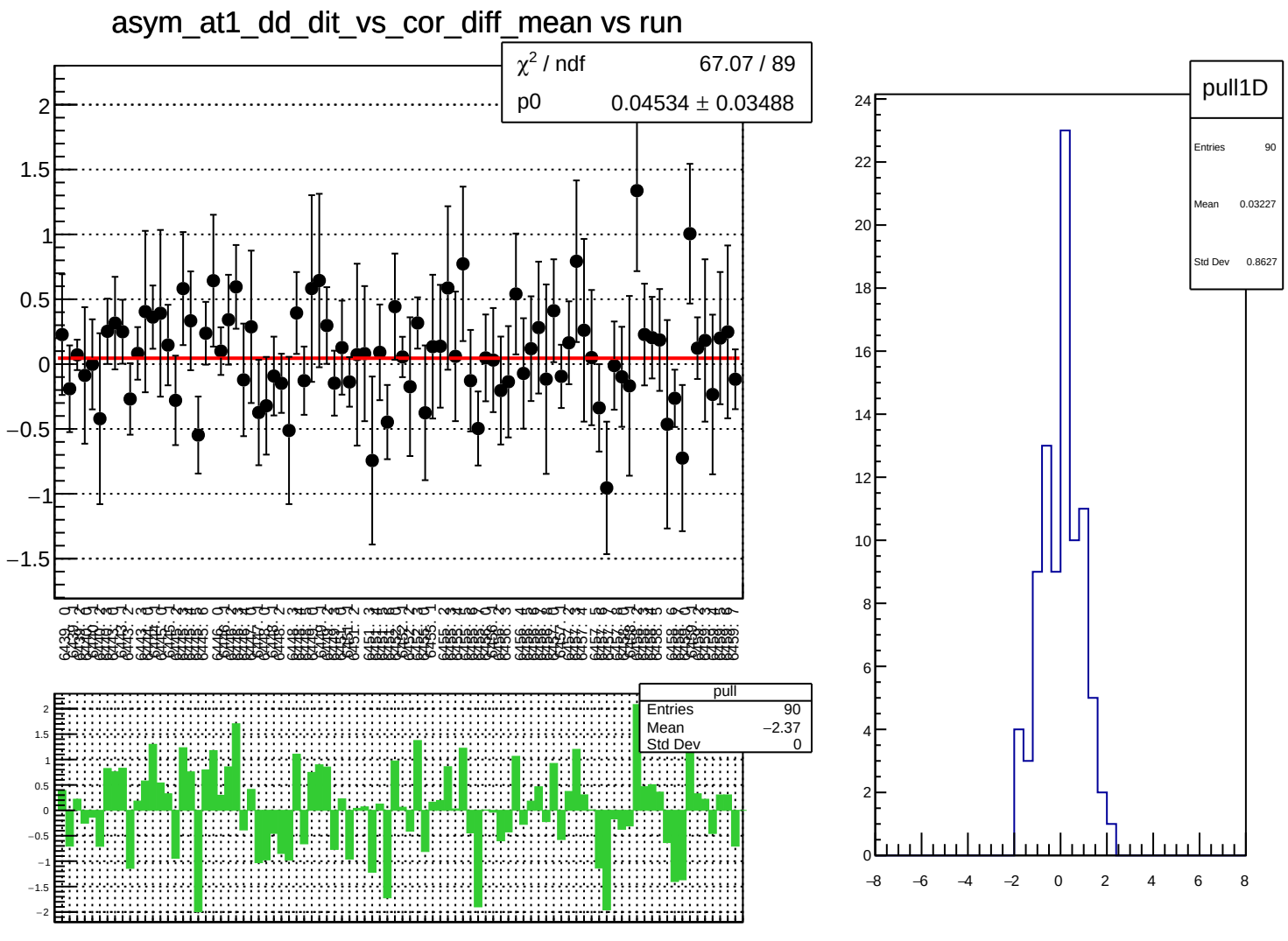

pull1D
Entries 90
Mean −0.009241
Std Dev 1.061

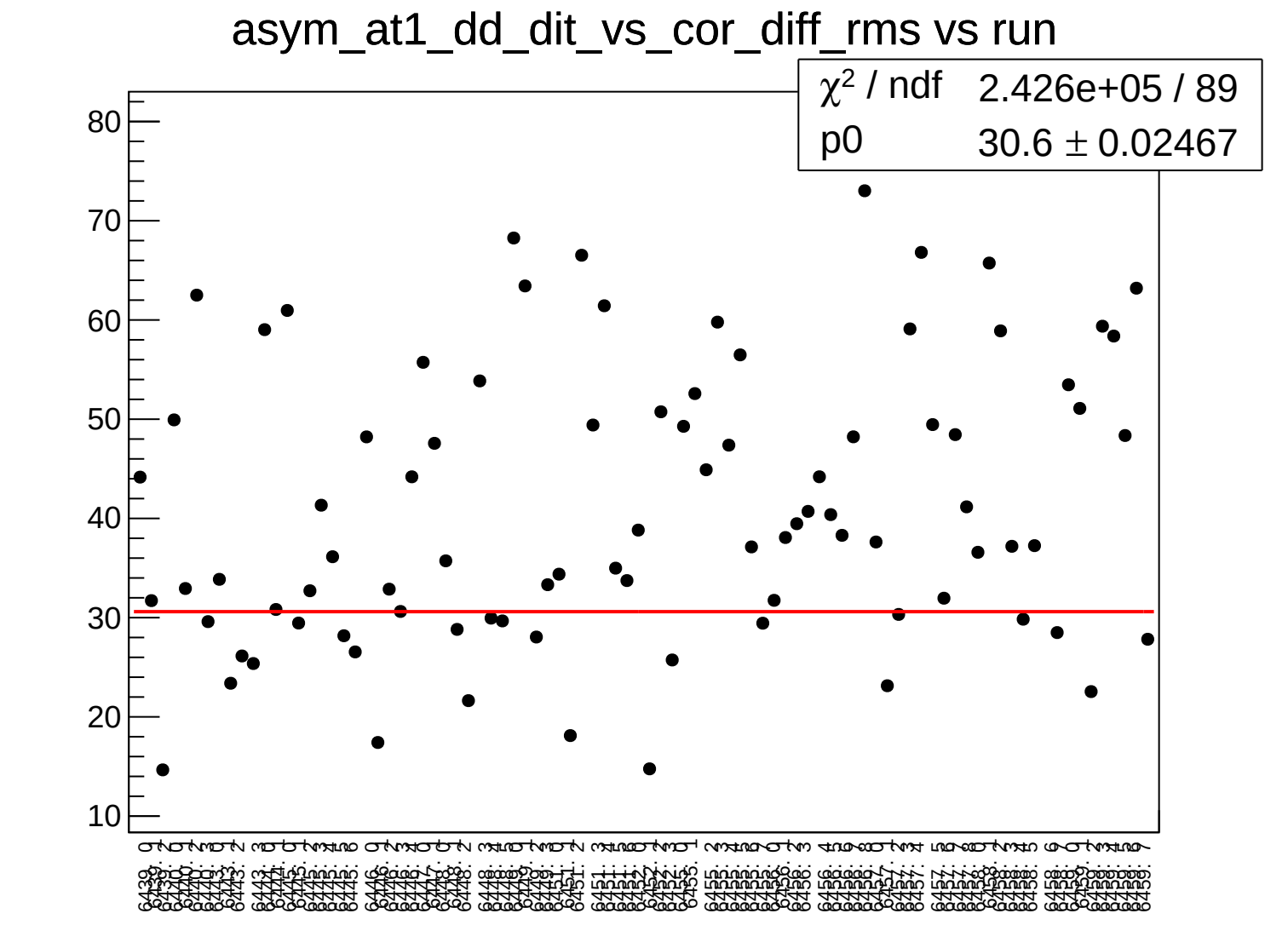

asym_at1_dd_rms vs run
χ² / ndf 200.5 / 89
p0 1863 ± 1.396
1980
1960
1940
1920
1900
1880
1860
1840
1820
1800

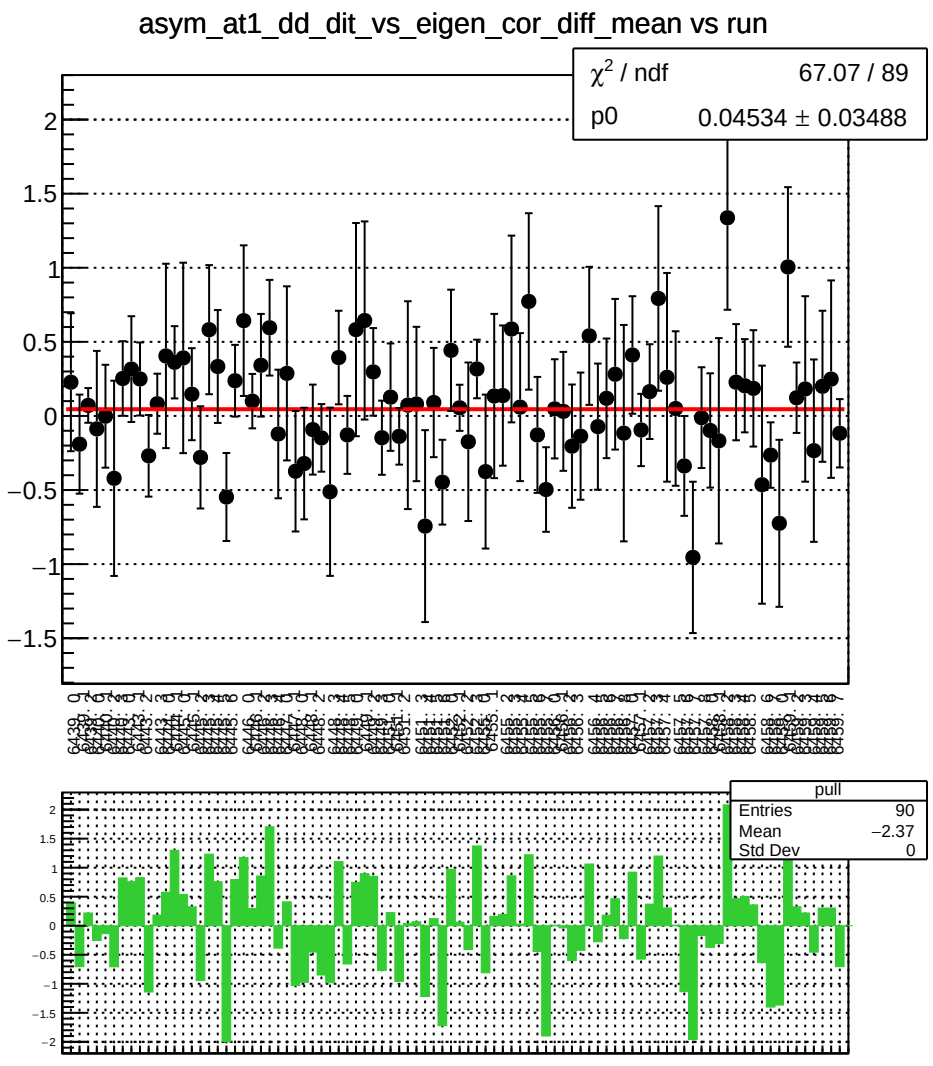

asym_at1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 65.27 / 89
p0 6.001e−16 ± 1.582e−14
pull
Entries 90
Mean 79.6
Std Dev 11.4

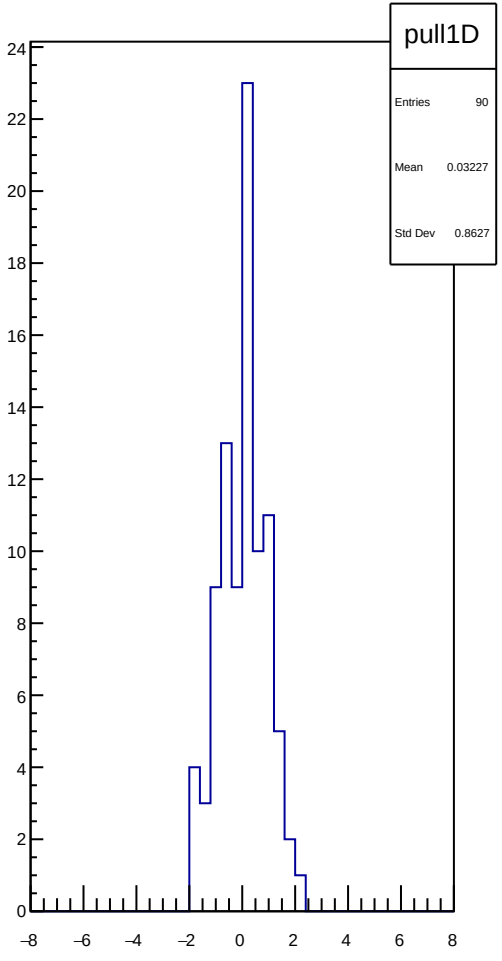

pull1D
Entries 90
Mean −0.05321
Std Dev 0.8499

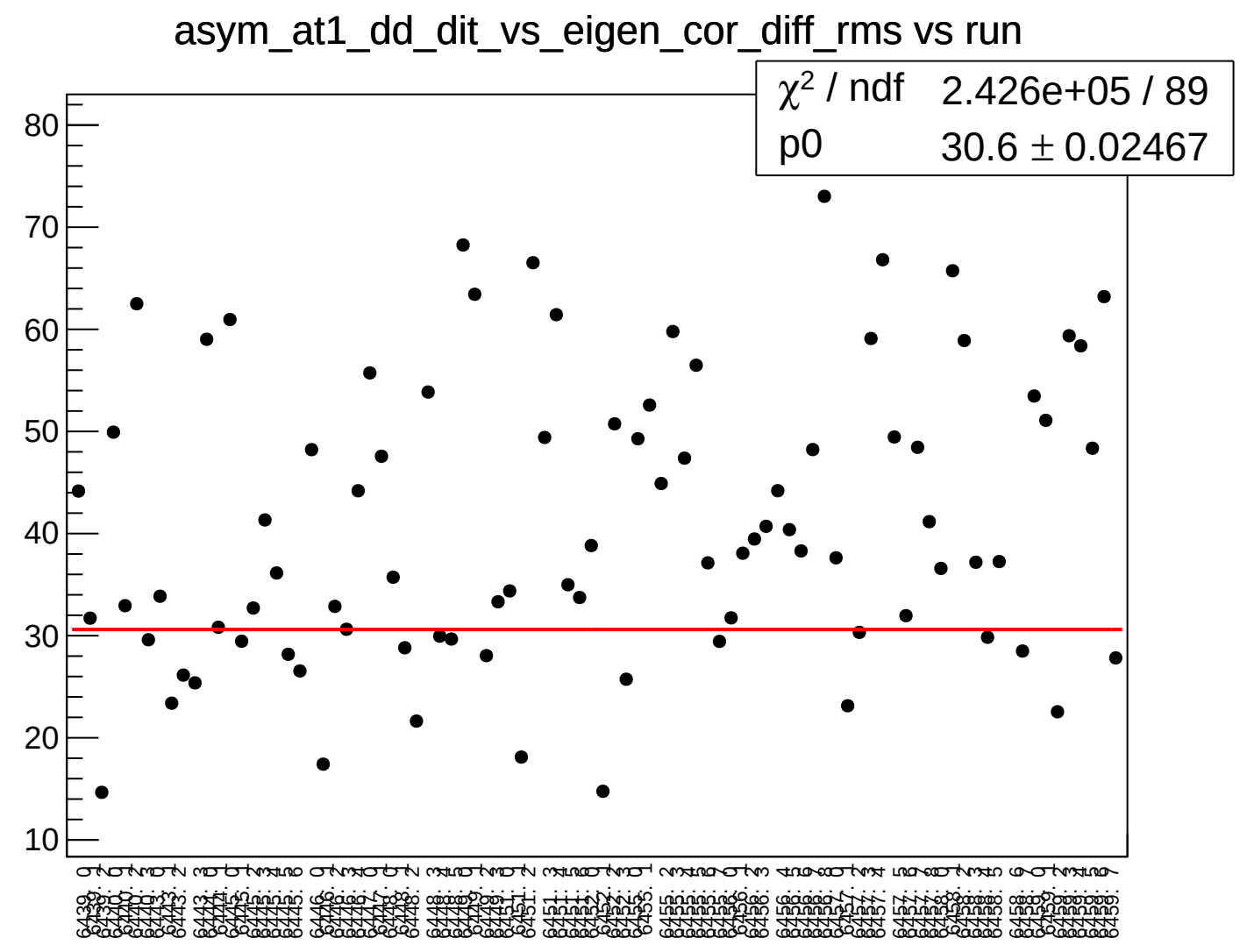

asym_at1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.047e+06 / 89
p0 9.585e−12 ± 1.118e−14
1
0.8
0.6
0.4
0.2
0

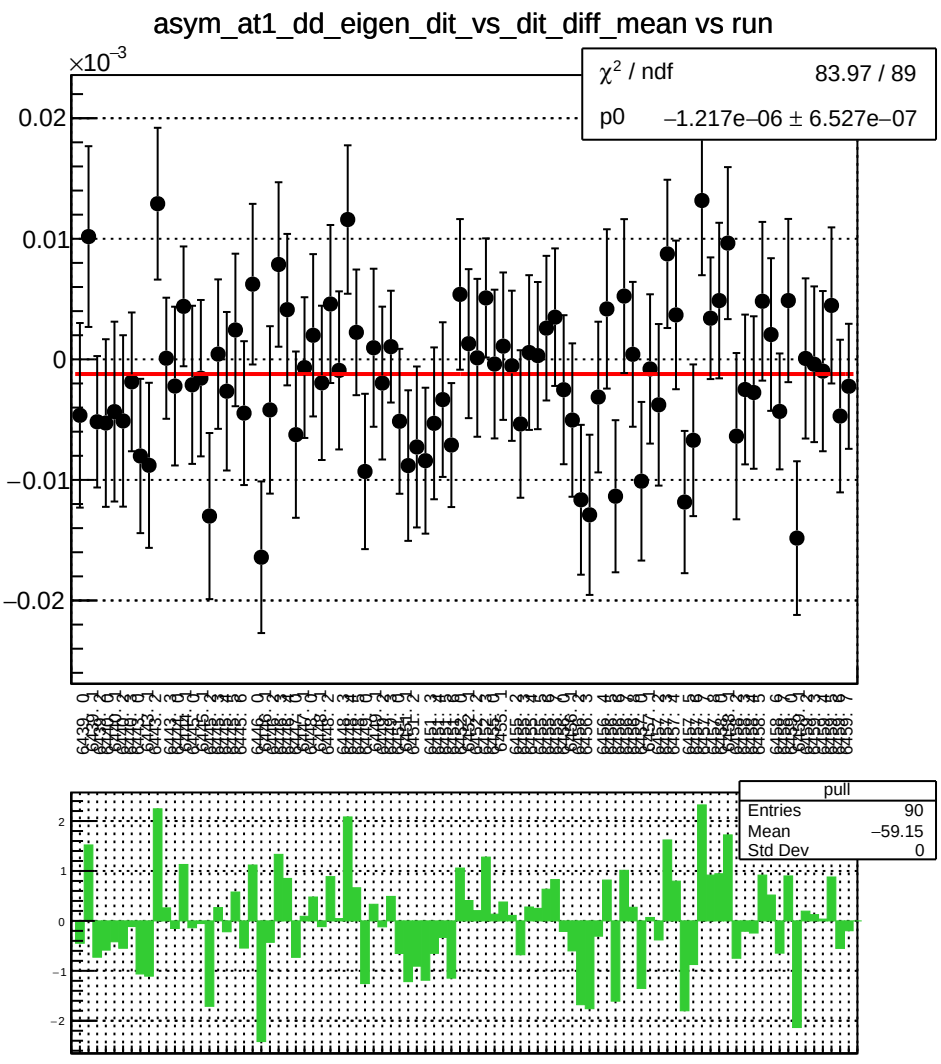

asym_at1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 67.07 / 89
p0 0.04534 ± 0.03488
pull
Entries 90
Mean −2.37
Std Dev 0
pull1D
Entries 90
Mean 0.03227
Std Dev 0.8627

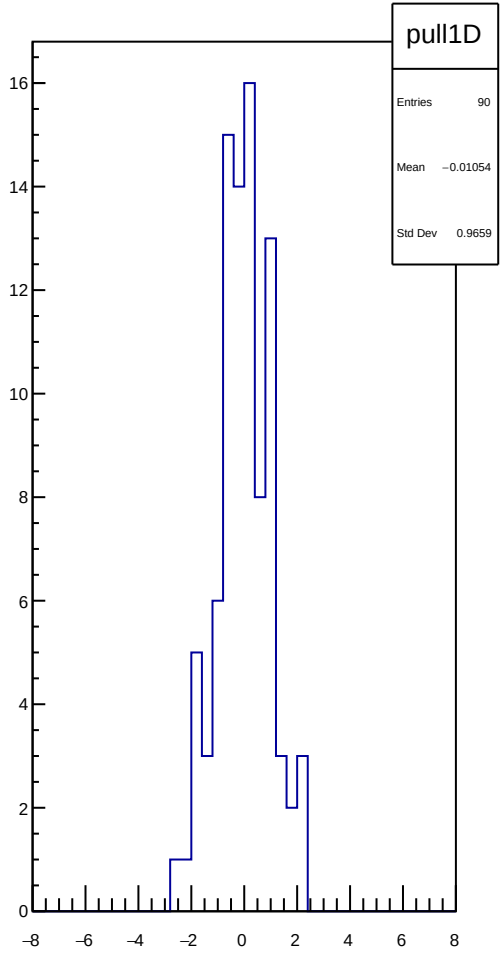

asym_at1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.426e+05 / 89
p0 30.6 ± 0.02467
80
70
60
50
40
30
20
10

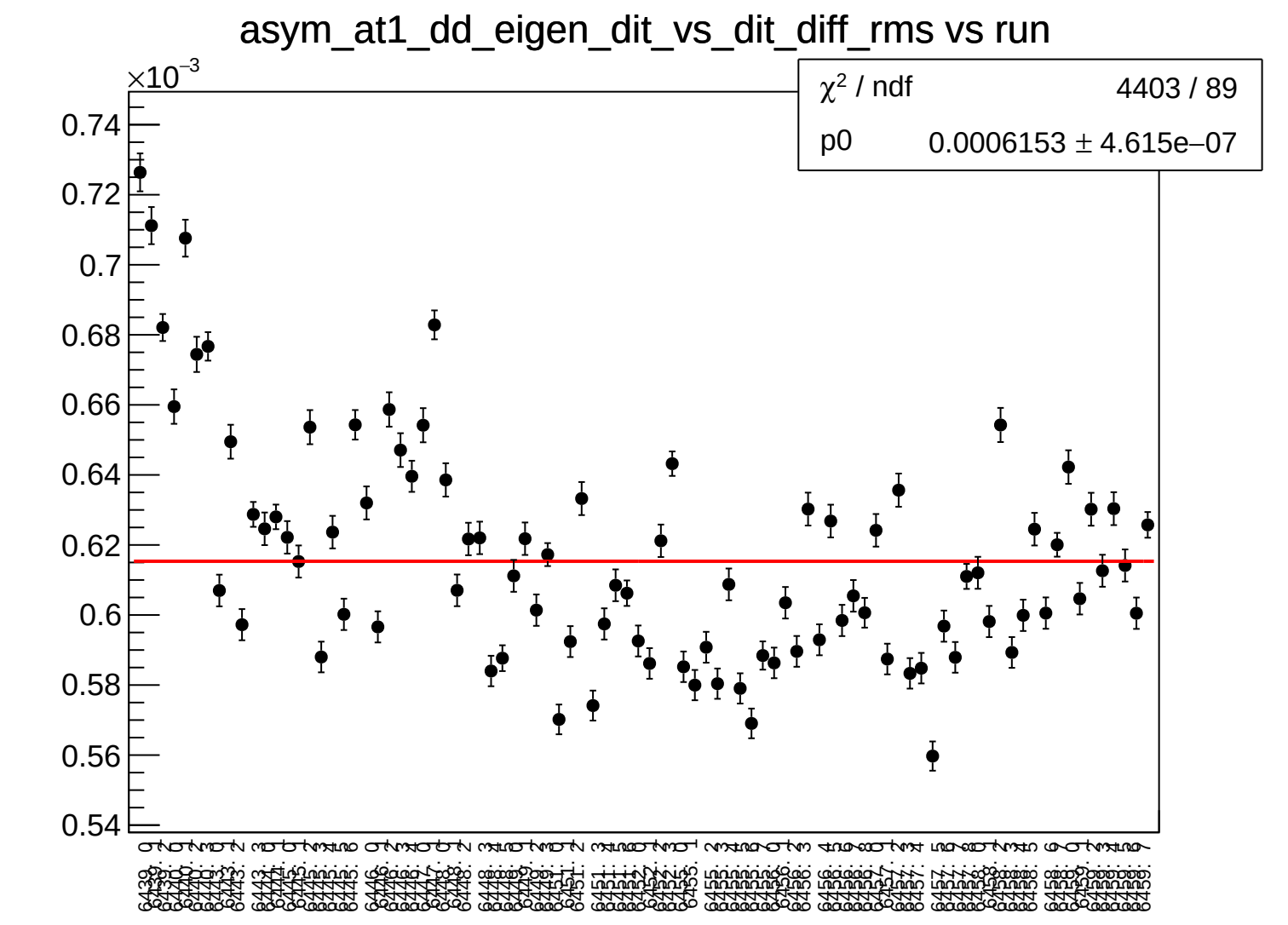

asym_at1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.07 / 89
p0 0.04534 ± 0.03488
pull
Entries 90
Mean −2.37
Std Dev 0

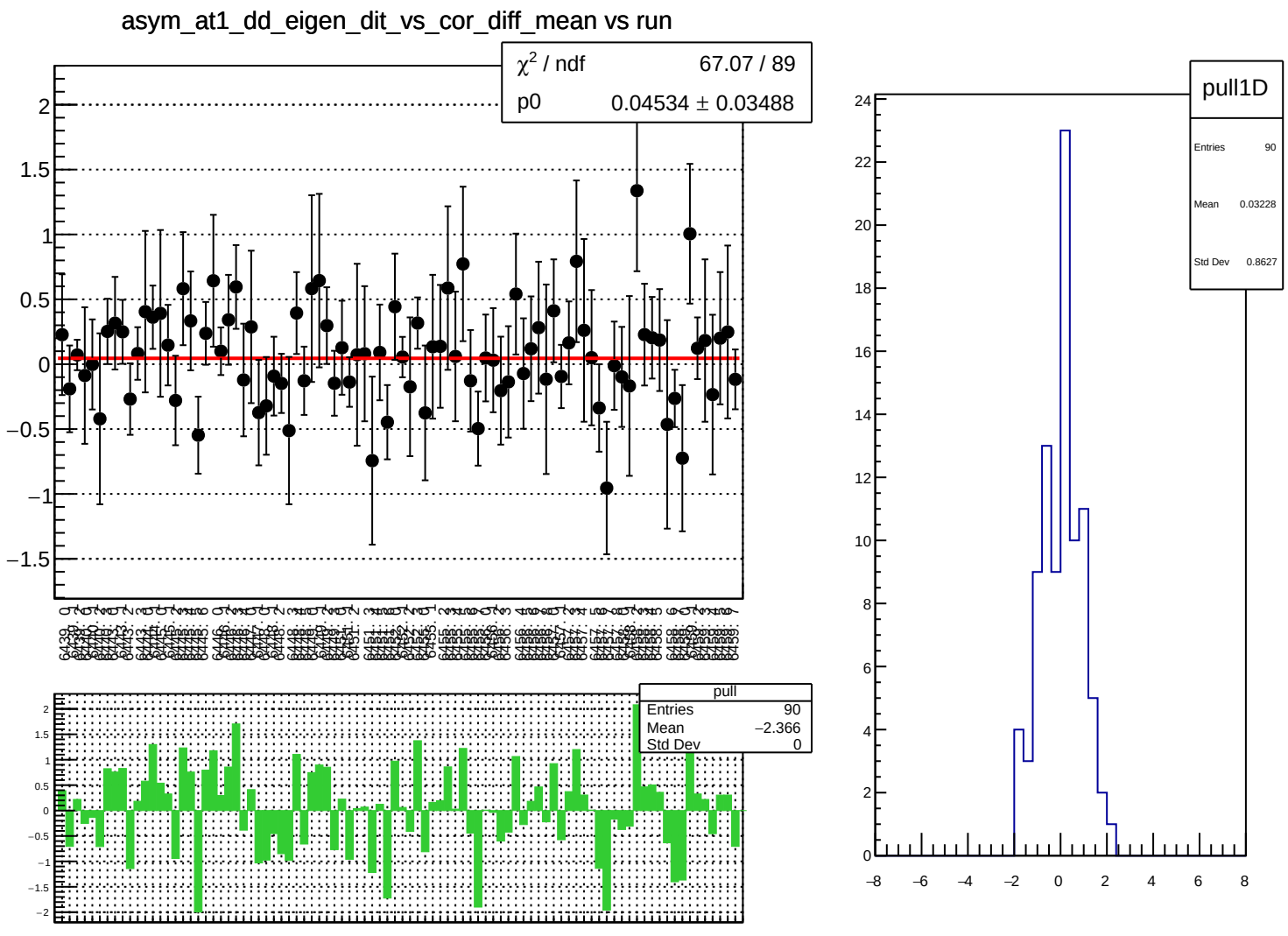

pull1D
Entries 90
Mean 0.03227
Std Dev 0.8627

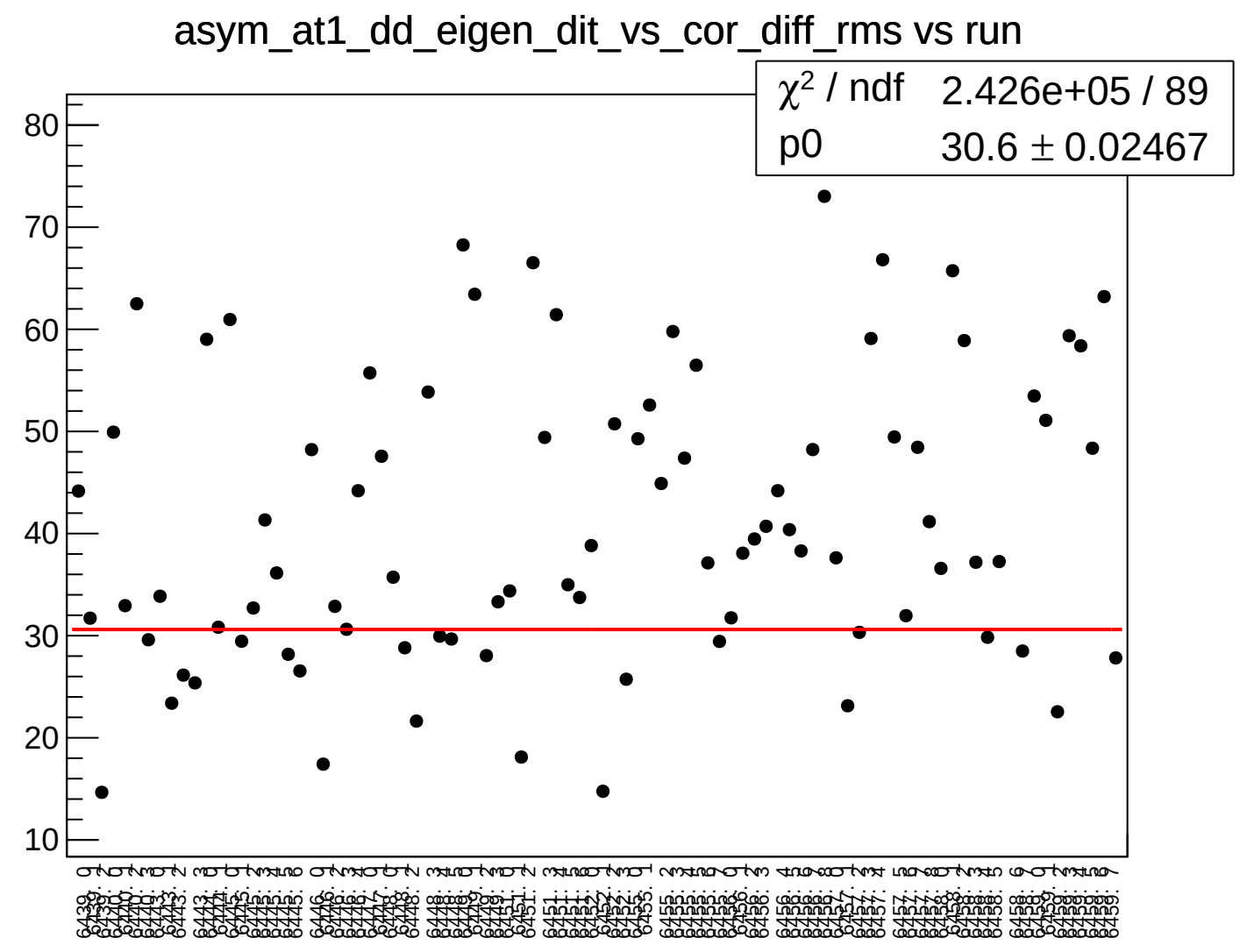

asym_at1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.426e+05 / 89
p0 30.6 ± 0.02467
80
70
60
50
40
30
20
10

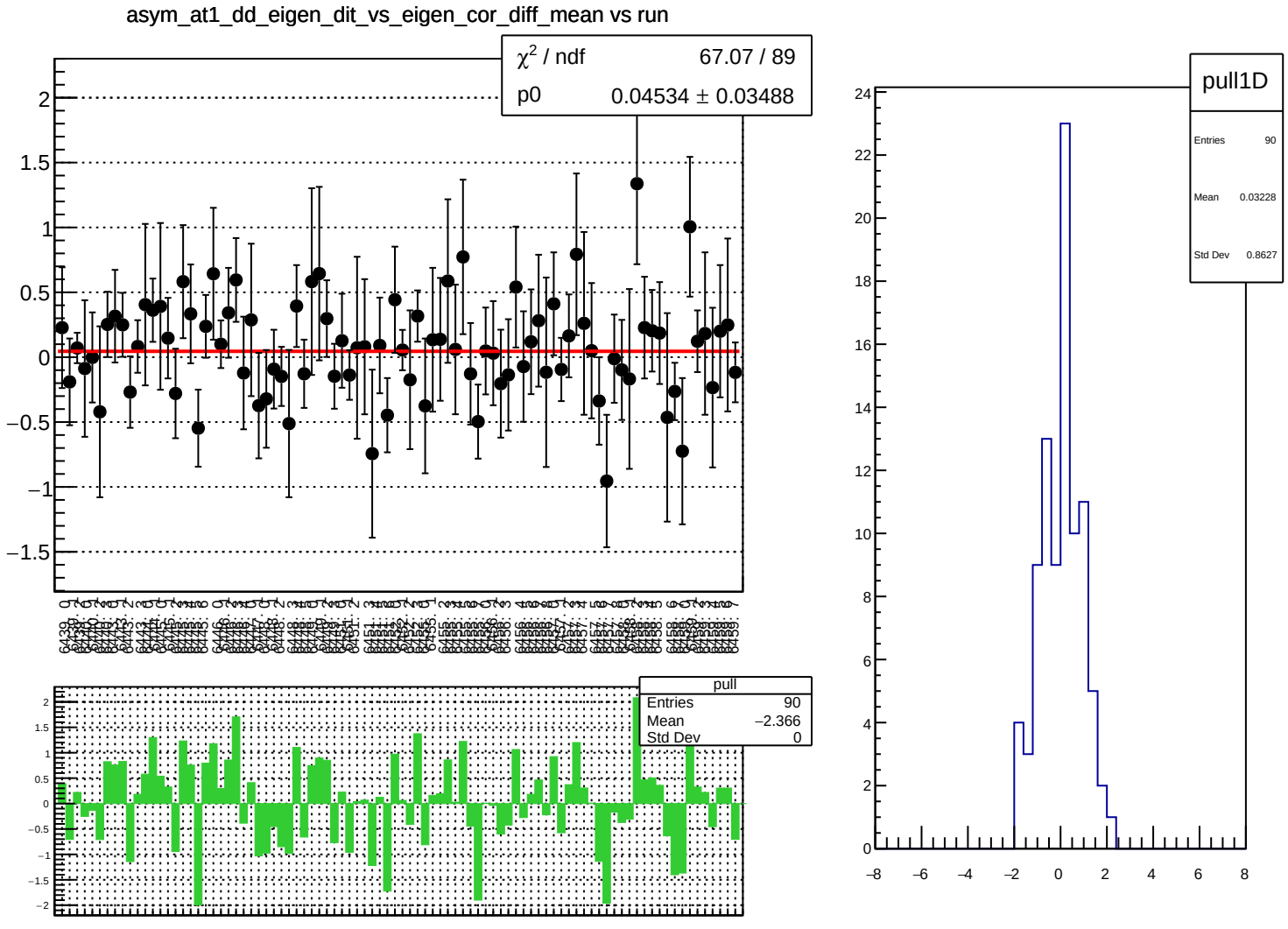

asym_at1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 83.97 / 89
p0 −1.217e−06 ± 6.527e−07
0.02
0.01
0
−0.01
−0.02
pull
Entries 90
Mean −59.15
Std Dev 0
2
1
0
−1
−2

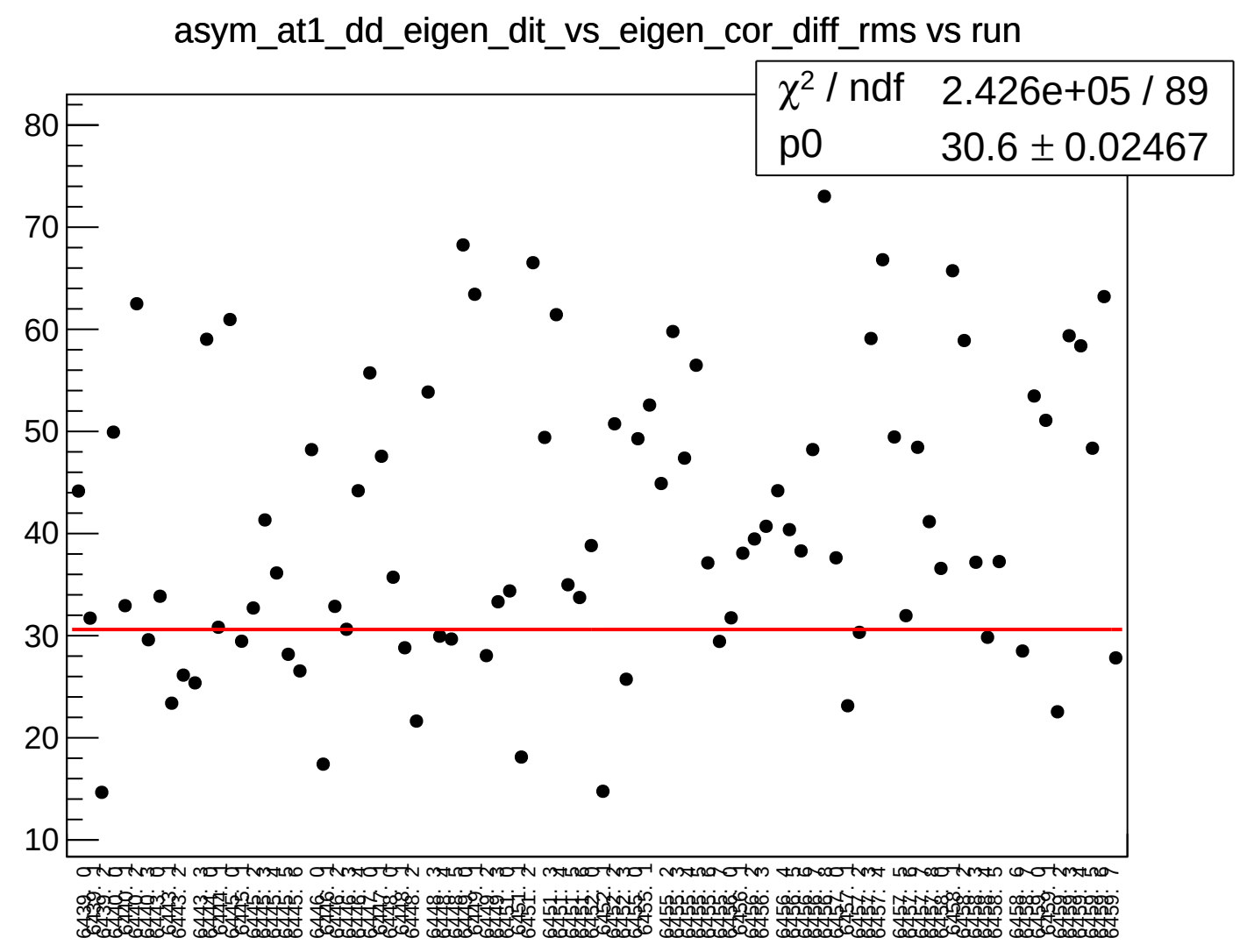

pull1D
Entries 90
Mean −0.01054
Std Dev 0.9659
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

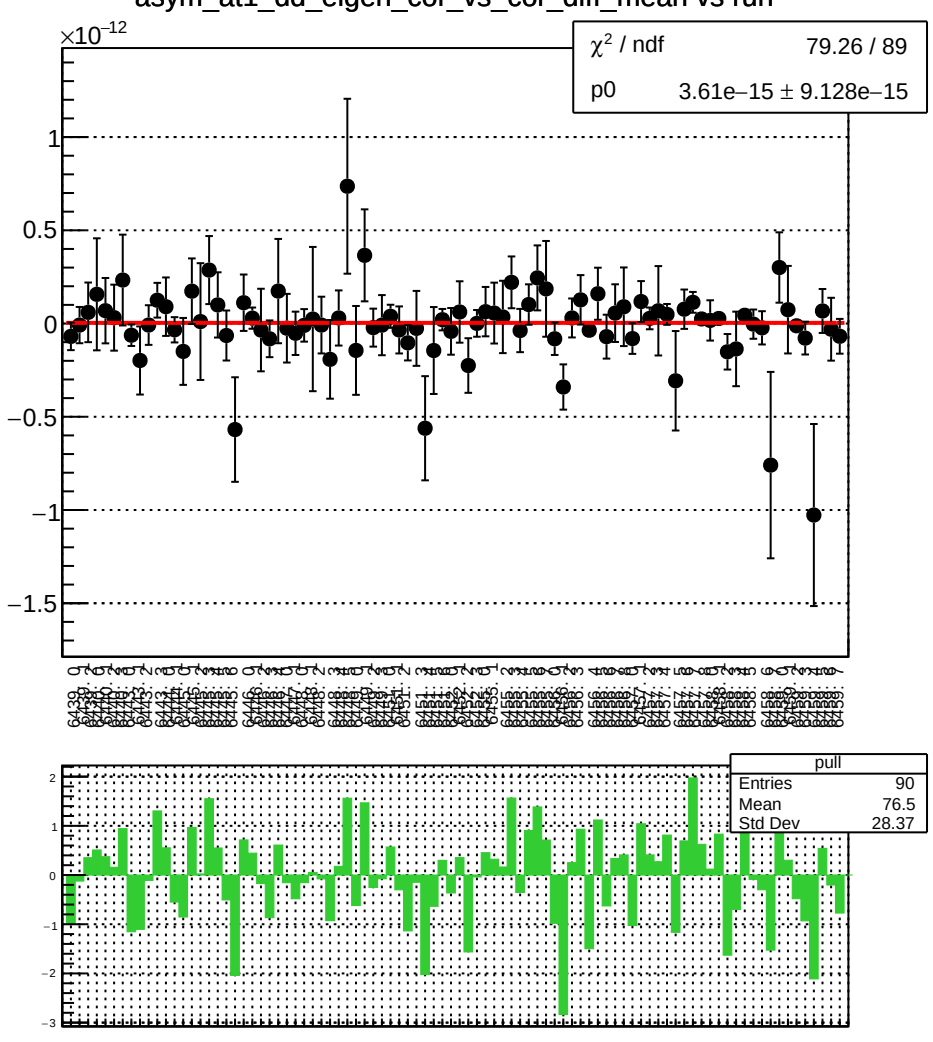

asym_at1_dd_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 4403 / 89
p0 0.0006153 ± 4.615e−07
0.74
0.72
0.7
0.68
0.66
0.64
0.62
0.6
0.58
0.56
0.54

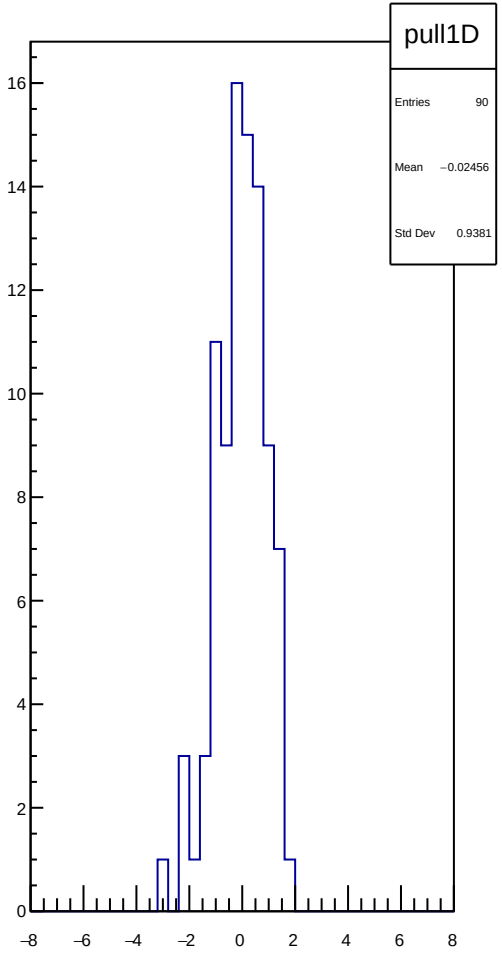

asym_at1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 67.07 / 89
p0 0.04534 ± 0.03488
pull
Entries 90
Mean −2.366
Std Dev 0
pull1D
Entries 90
Mean 0.03228
Std Dev 0.8627

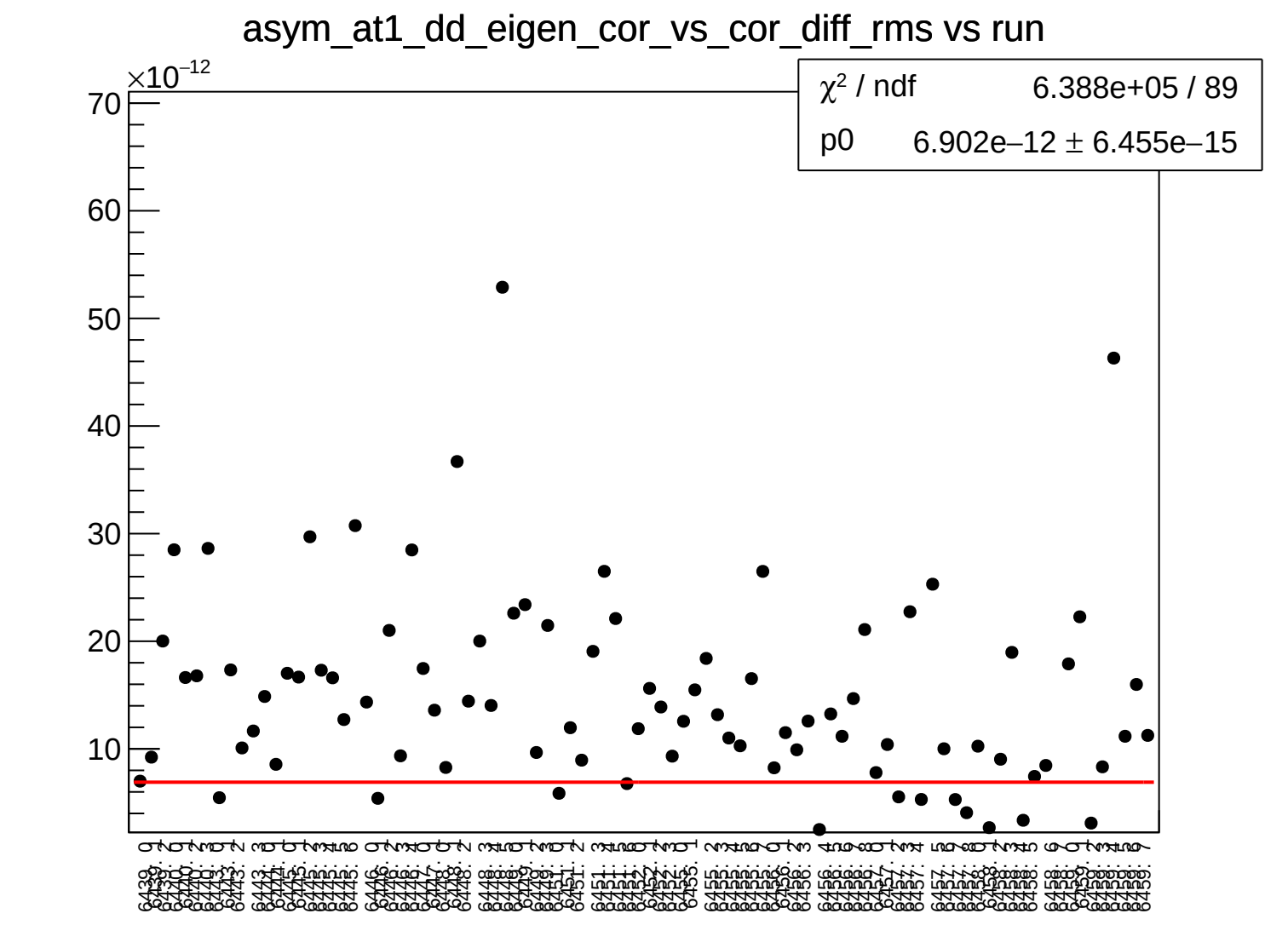

asym_at1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.426e+05 / 89
p0 30.6 ± 0.02467
80
70
60
50
40
30
20
10

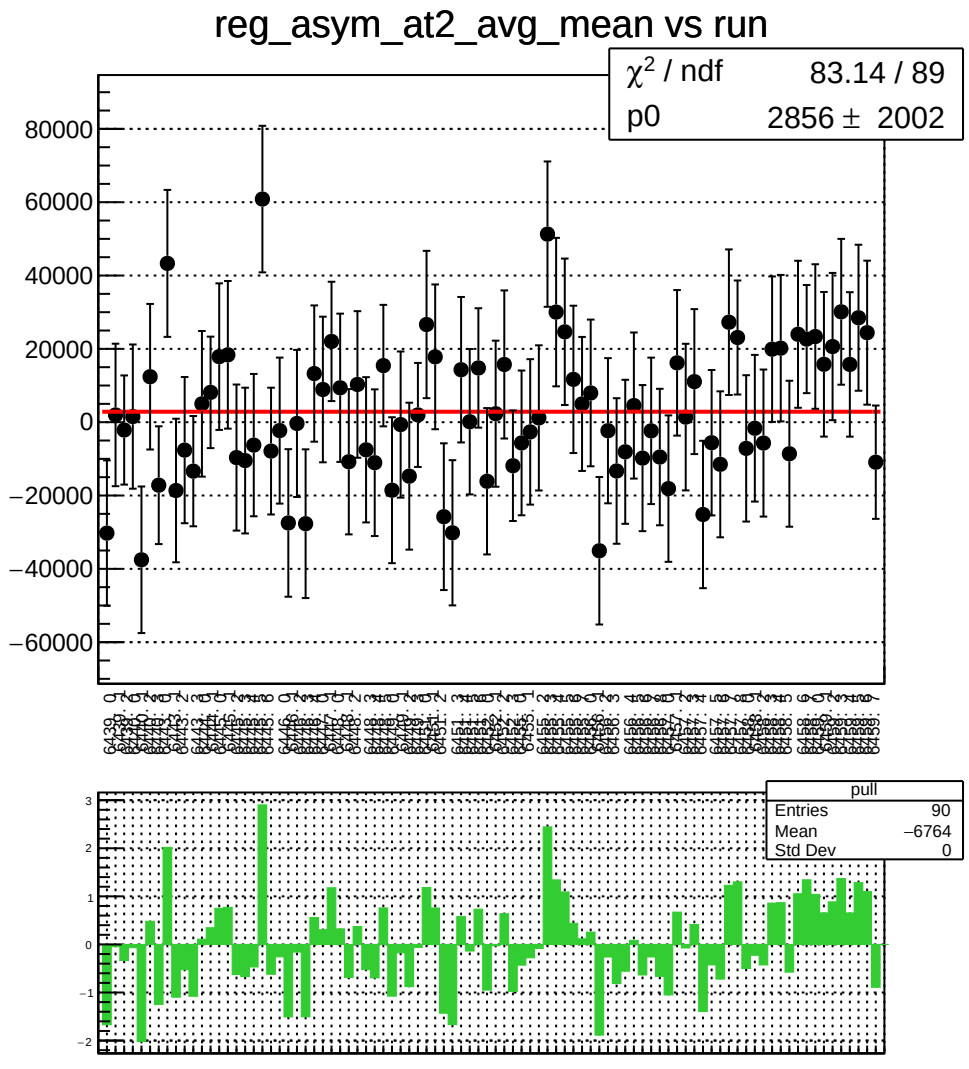

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.07 / 89
p0 0.04534 ± 0.03488
pull
Entries 90
Mean −2.366
Std Dev 0
pull1D
Entries 90
Mean 0.03228
Std Dev 0.8627

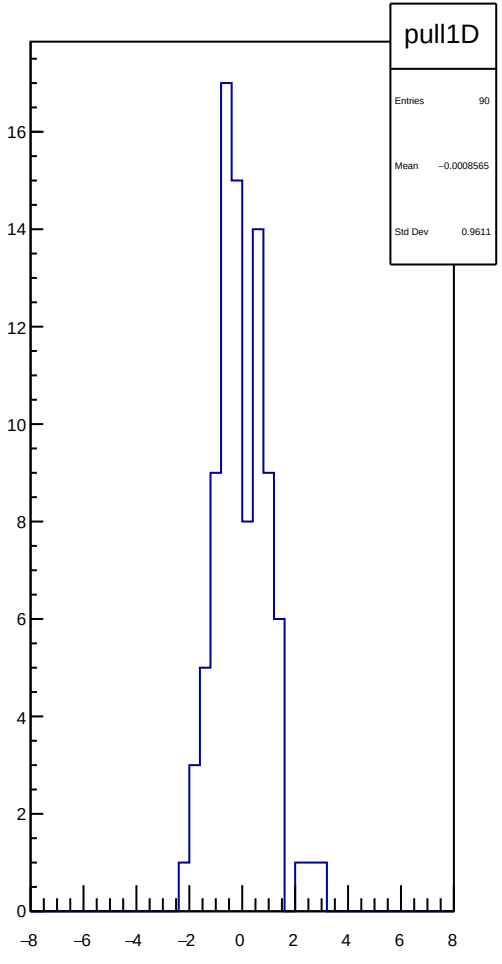

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.426e+05 / 89
p0 30.6 ± 0.02467
80
70
60
50
40
30
20
10

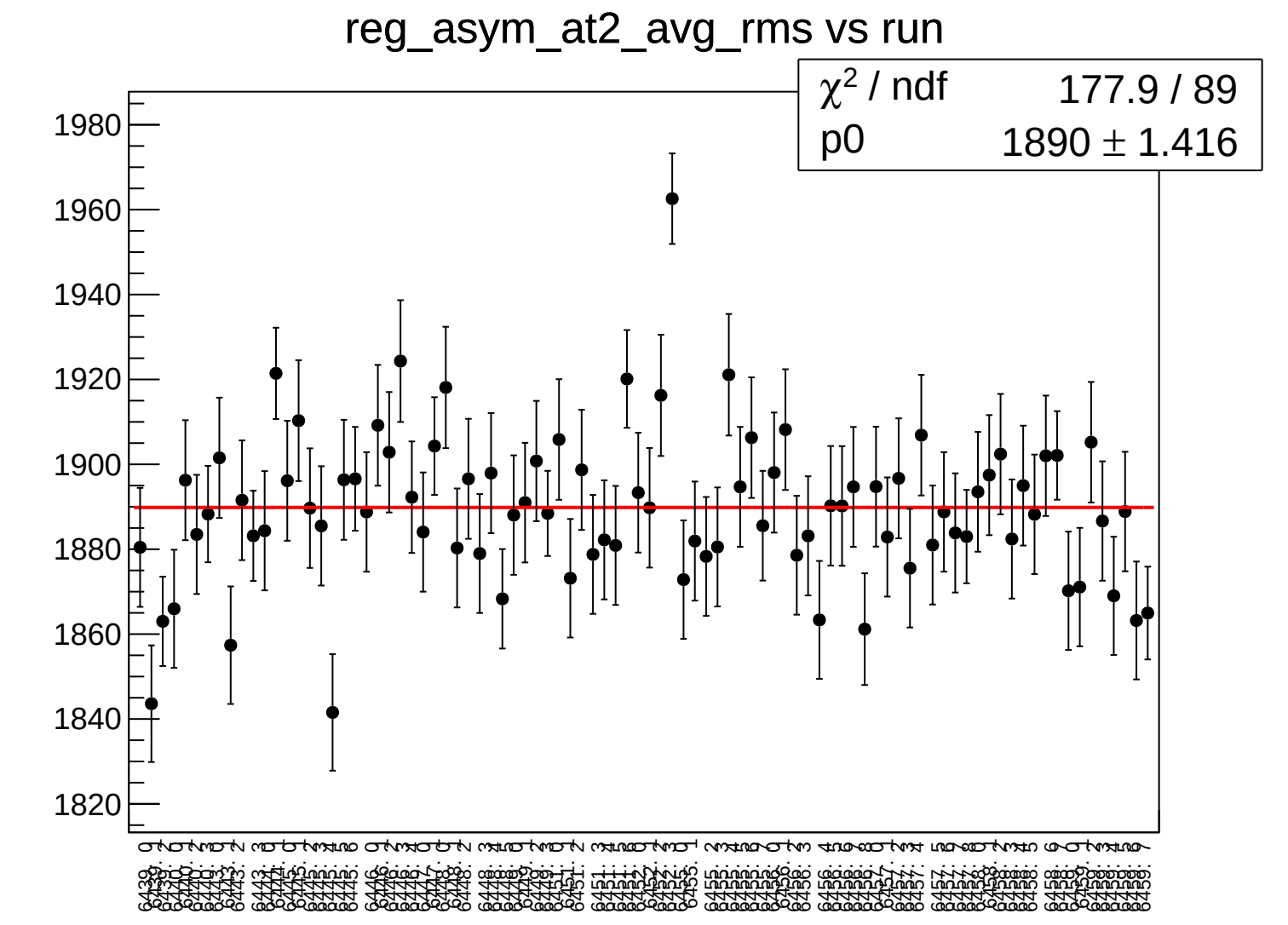

asym_at1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.26 / 89
p0 3.61e−15 ± 9.128e−15
pull
Entries 90
Mean 76.5
Std Dev 28.37

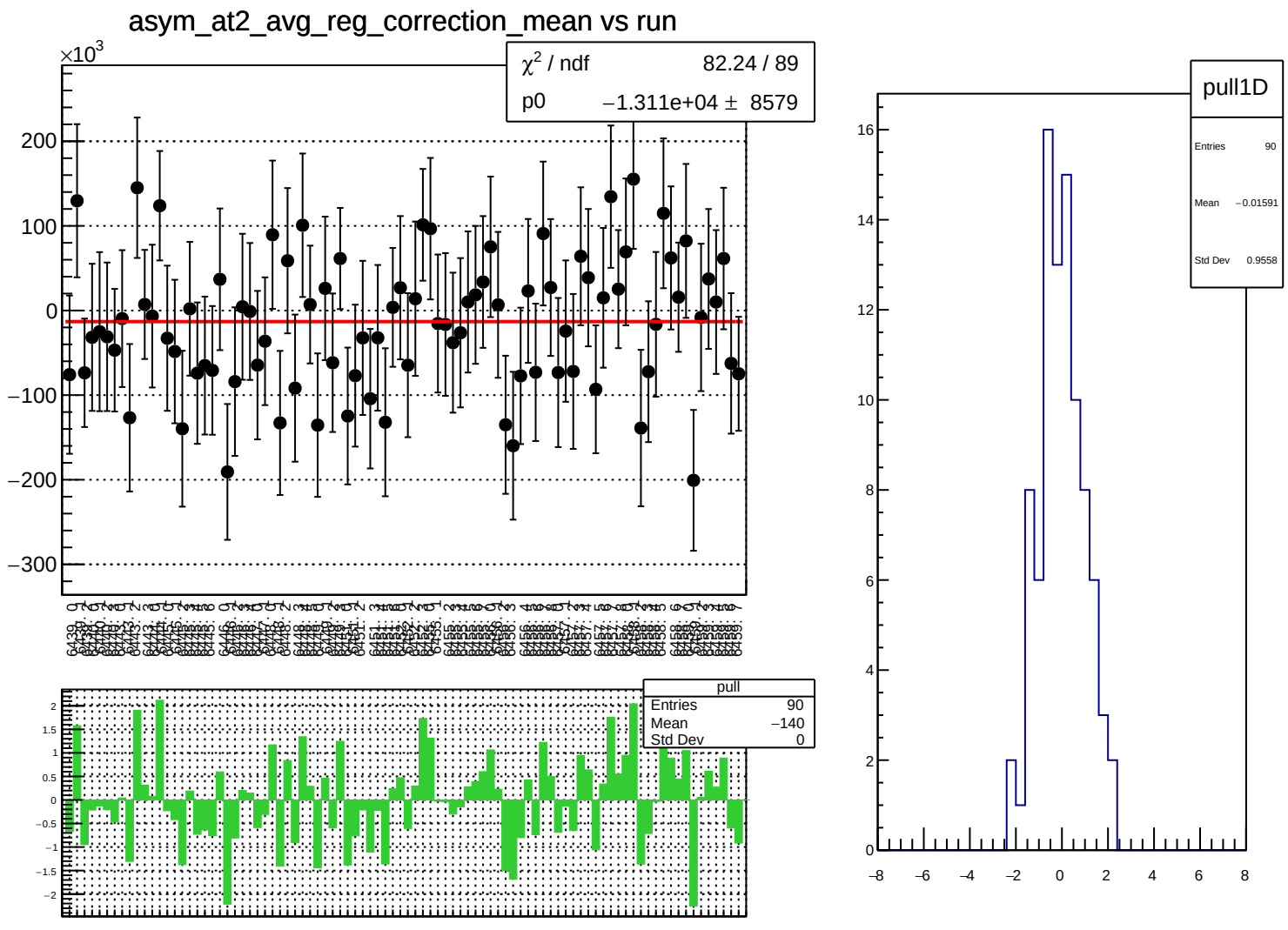

pull1D
Entries 90
Mean −0.02456
Std Dev 0.9381

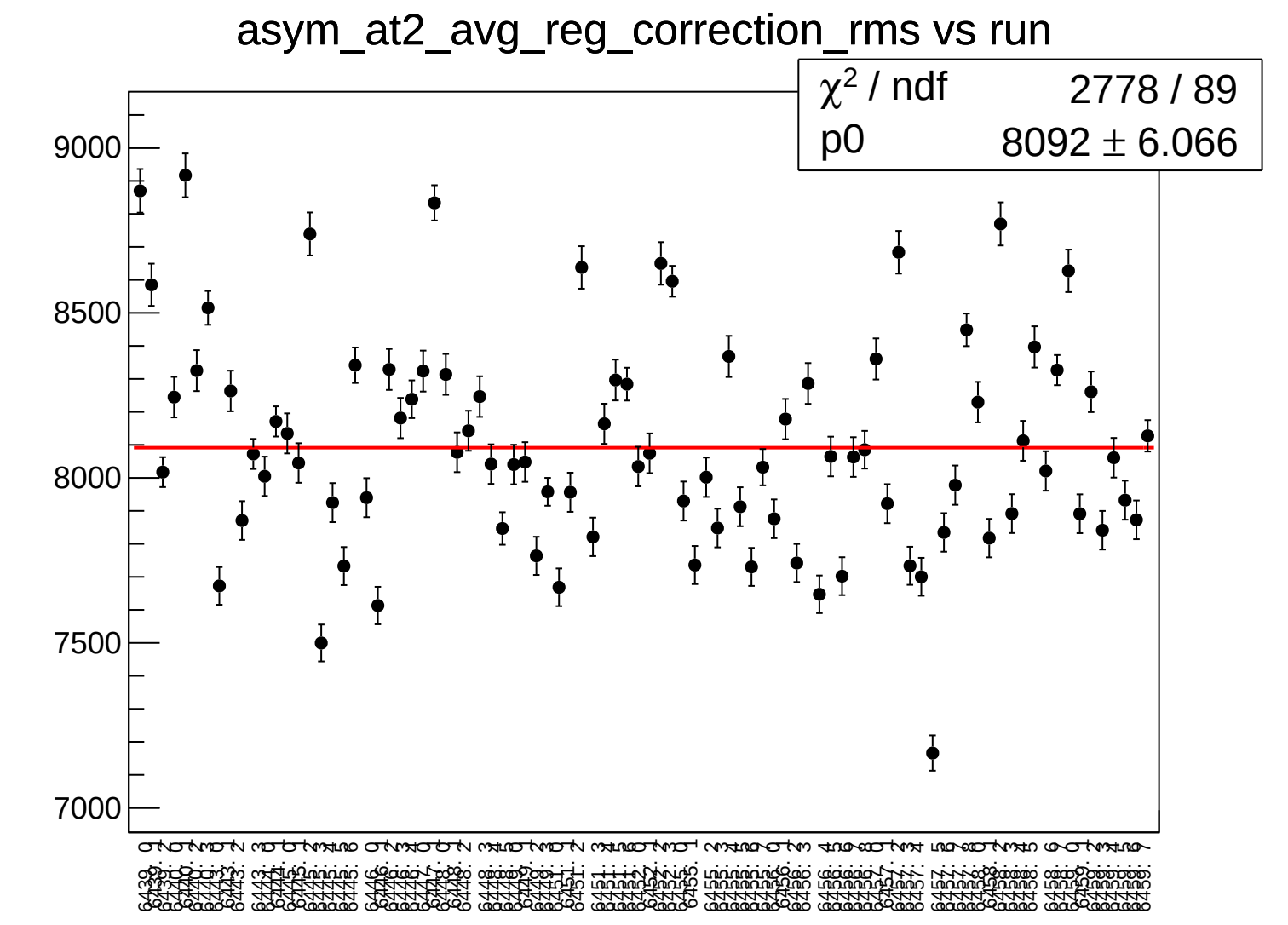

asym_at1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.388e+05 / 89
p0 6.902e−12 ± 6.455e−15
70
60
50
40
30
20
10

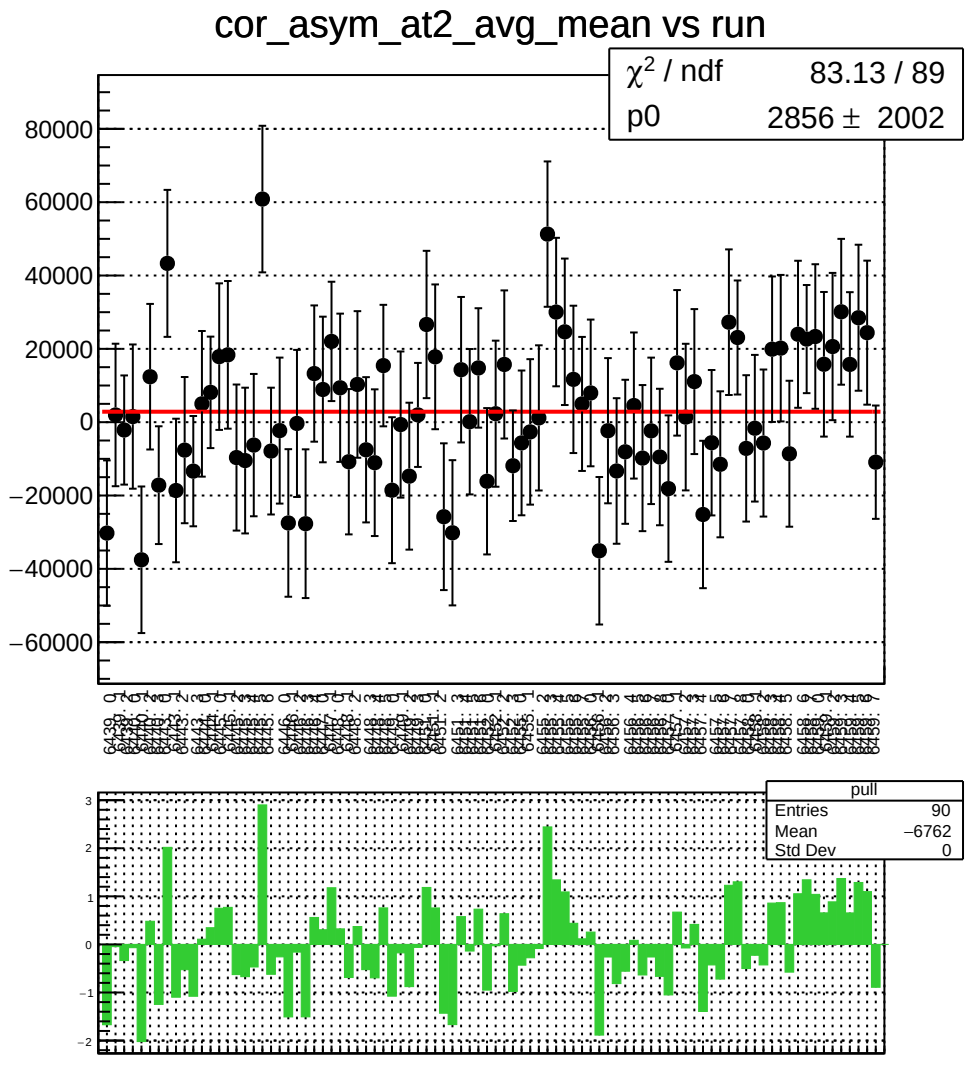

reg_asym_at2_avg_mean vs run
χ² / ndf 83.14 / 89
p0 2856 ± 2002
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −6764
Std Dev 0
3
2
1
0
−1
−2

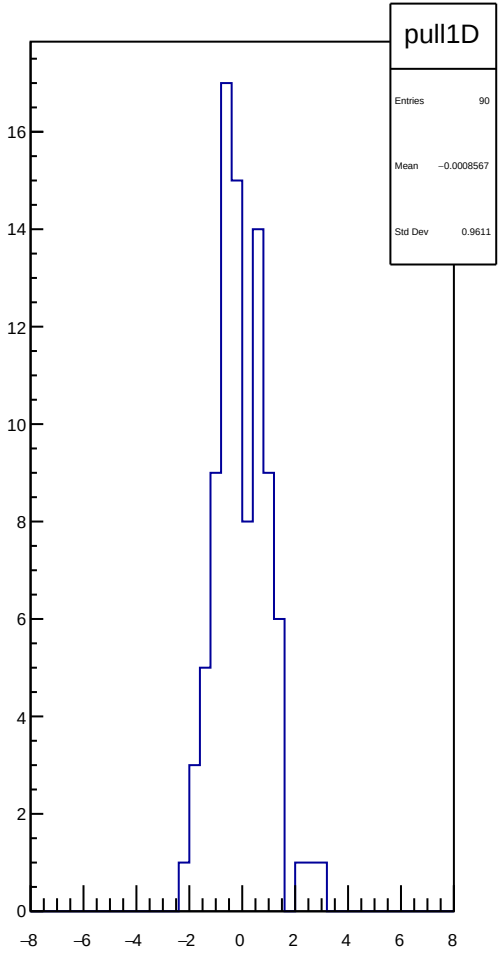

pull1D
Entries 90
Mean −0.0008565
Std Dev 0.9611
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

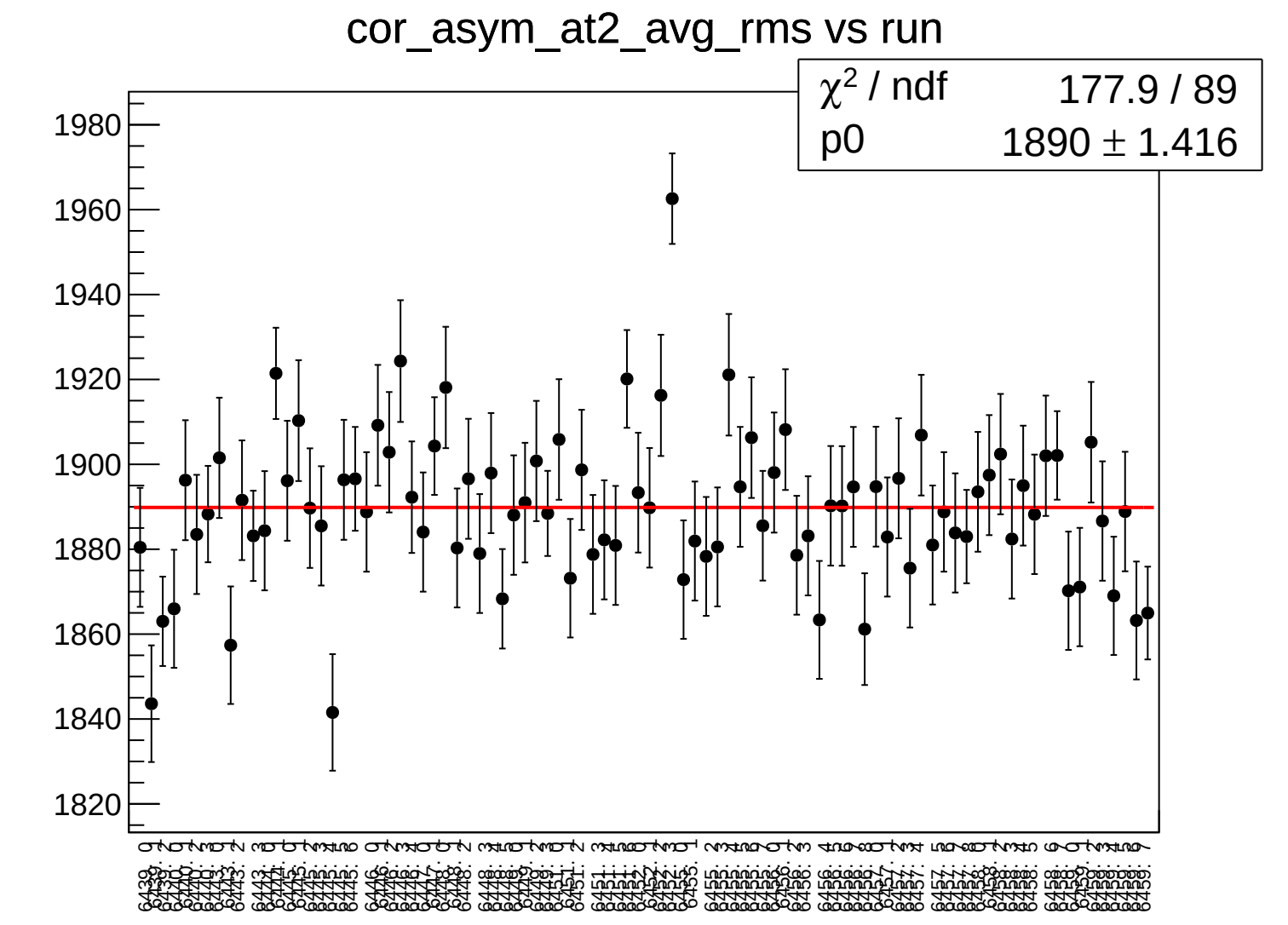

reg_asym_at2_avg_rms vs run
χ^2 / ndf 177.9 / 89
p0 1890 ± 1.416
1980
1960
1940
1920
1900
1880
1860
1840
1820

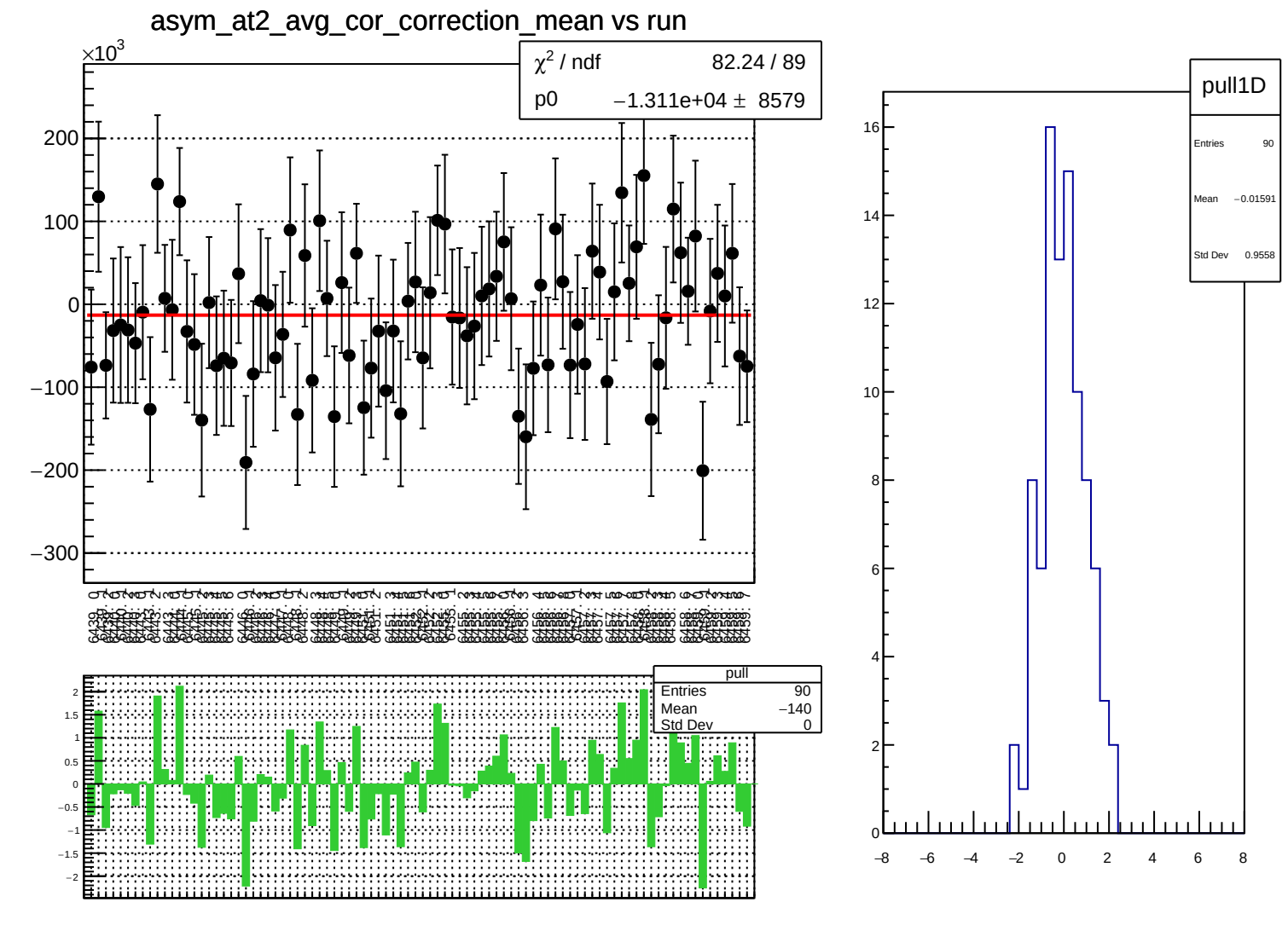

asym_at2_avg_reg_correction_mean vs run
χ² / ndf 82.24 / 89
p0 −1.311e+04 ± 8579
×10³
200
100
0
−100
−200
−300
pull
Entries 90
Mean −140
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 90
Mean −0.01591
Std Dev 0.9558
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

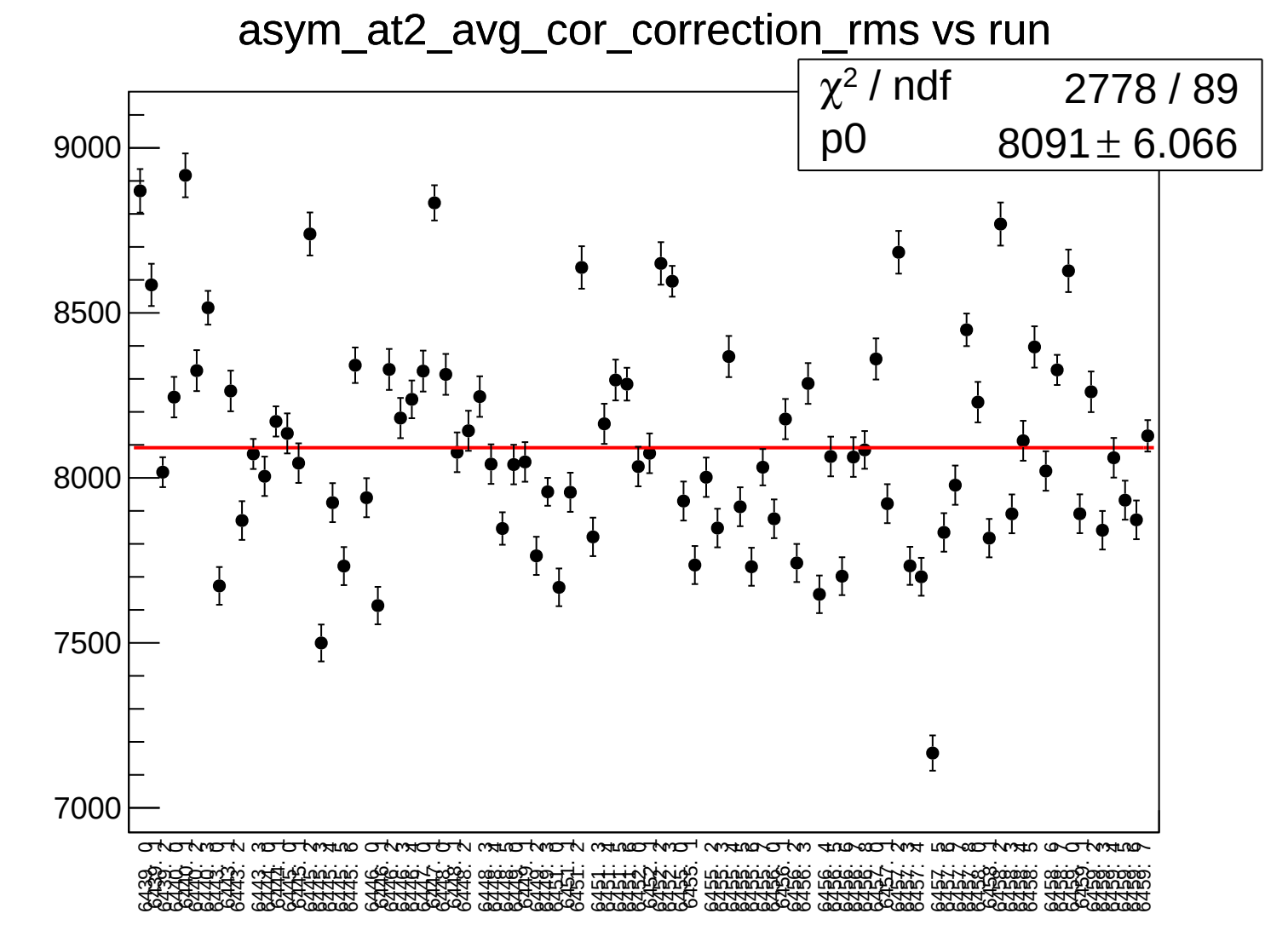

asym_at2_avg_reg_correction_rms vs run
χ² / ndf 2778 / 89
p0 8092 ± 6.066
9000
8500
8000
7500
7000

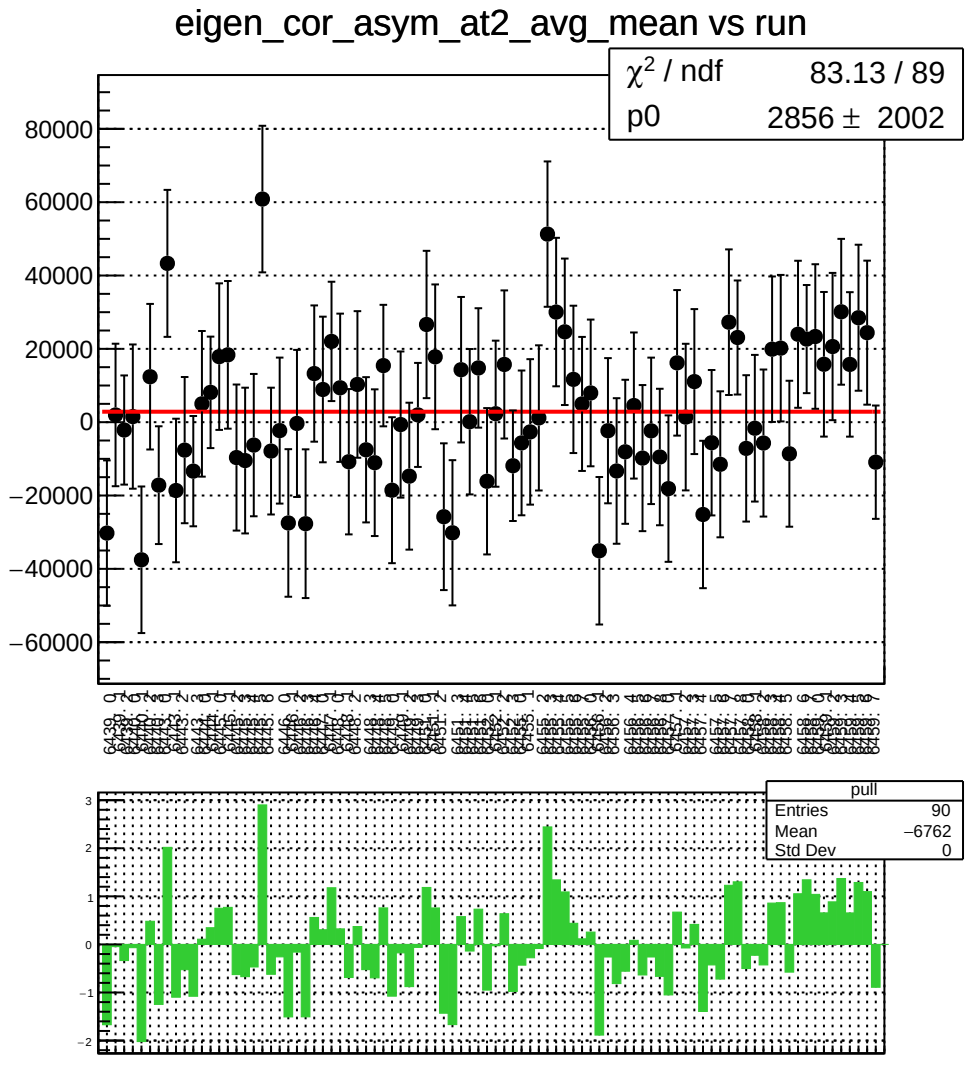

cor_asym_at2_avg_mean vs run
χ² / ndf 83.13 / 89
p0 2856 ± 2002
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −6762
Std Dev 0
3
2
1
0
−1
−2

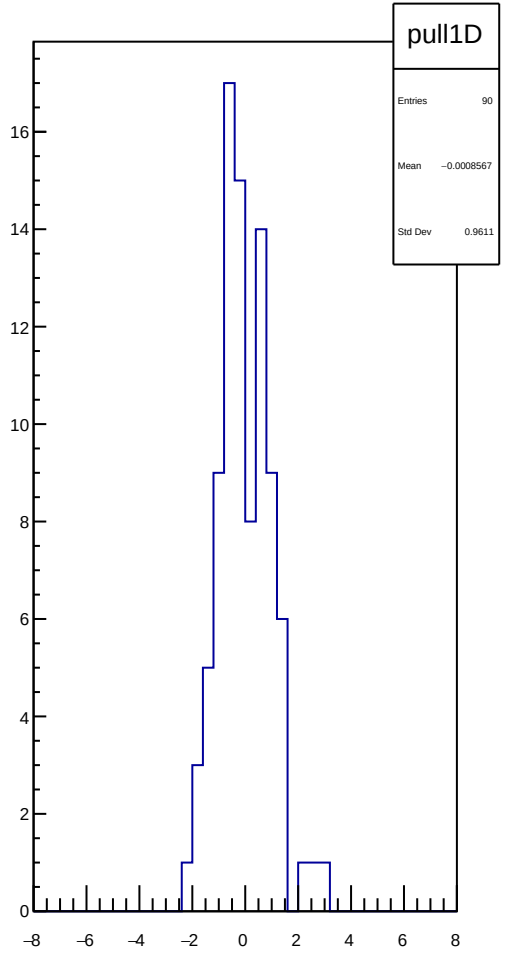

pull1D
Entries 90
Mean −0.0008567
Std Dev 0.9611
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

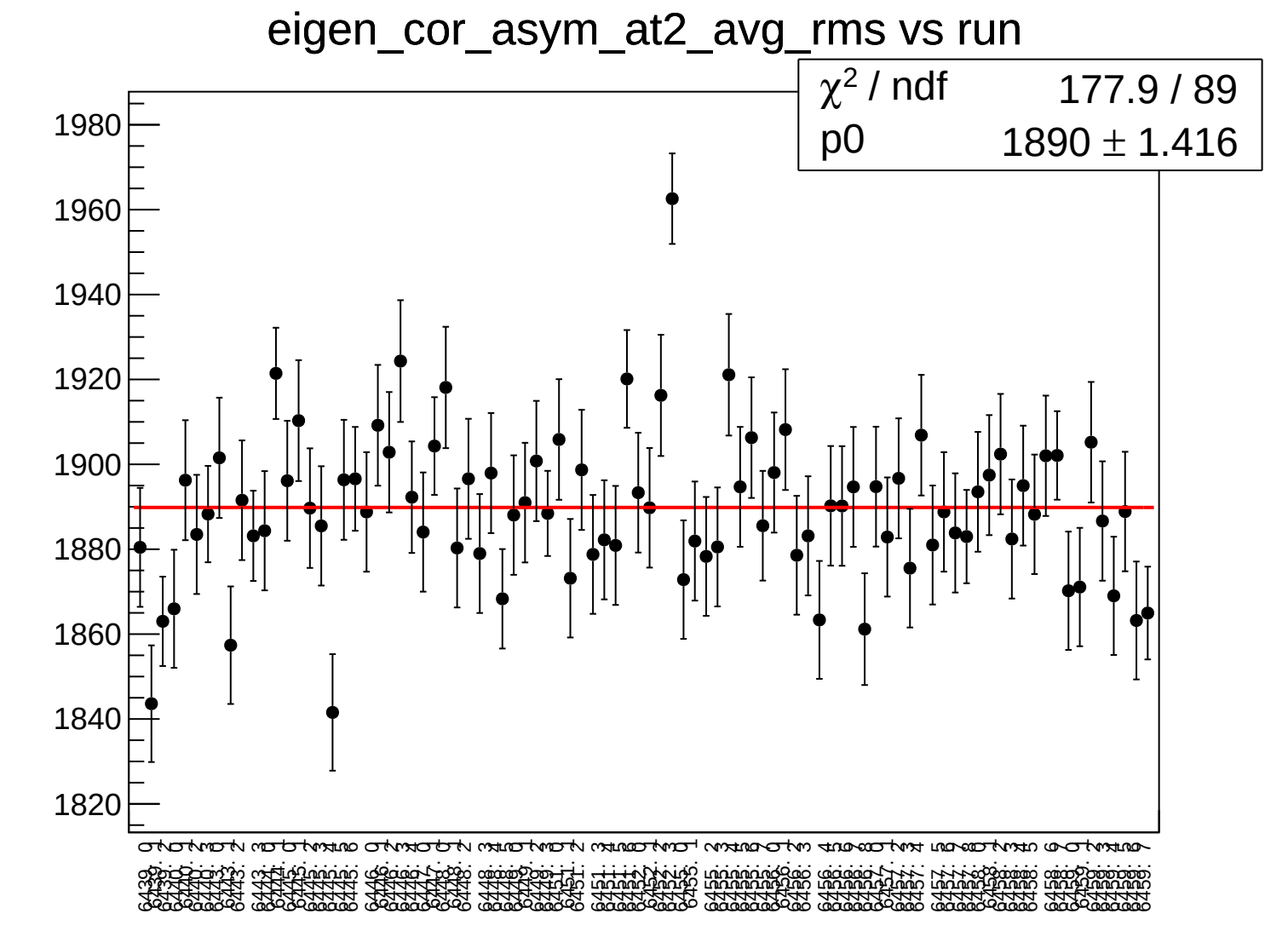

cor_asym_at2_avg_rms vs run
χ^2 / ndf 177.9 / 89
p0 1890 ± 1.416
1980
1960
1940
1920
1900
1880
1860
1840
1820

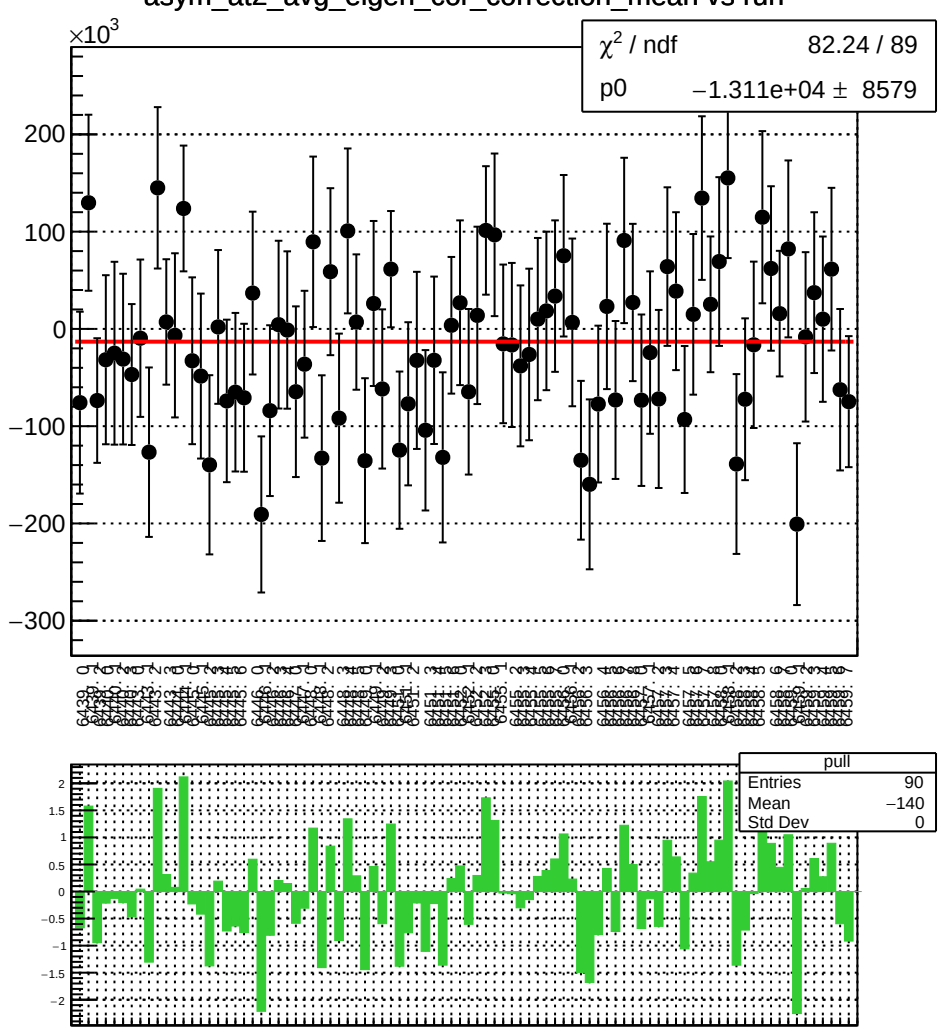

asym_at2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 82.24 / 89
p0 −1.311e+04 ± 8579
200
100
0
−100
−200
−300
pull
Entries 90
Mean −140
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 90
Mean −0.01591
Std Dev 0.9558
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

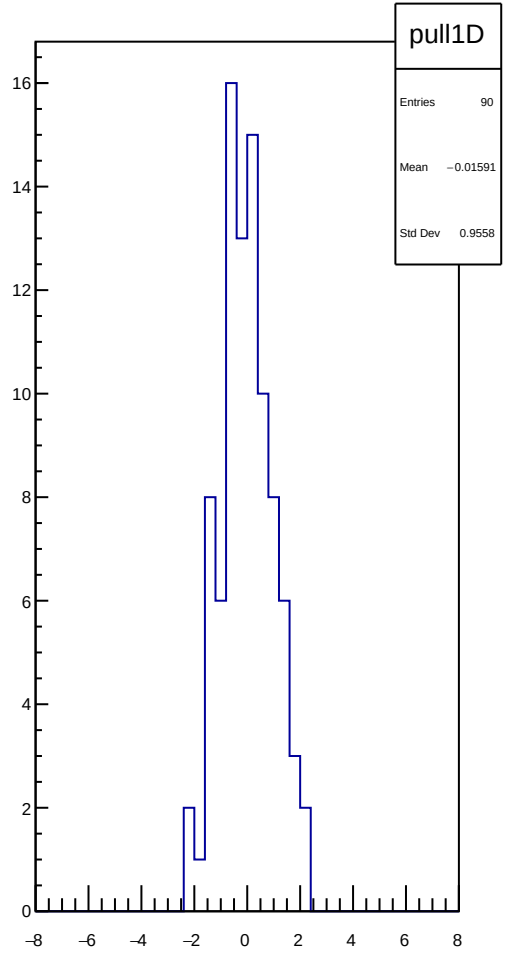

asym_at2_avg_cor_correction_rms vs run
χ² / ndf 2778 / 89
p0 8091 ± 6.066
9000
8500
8000
7500
7000

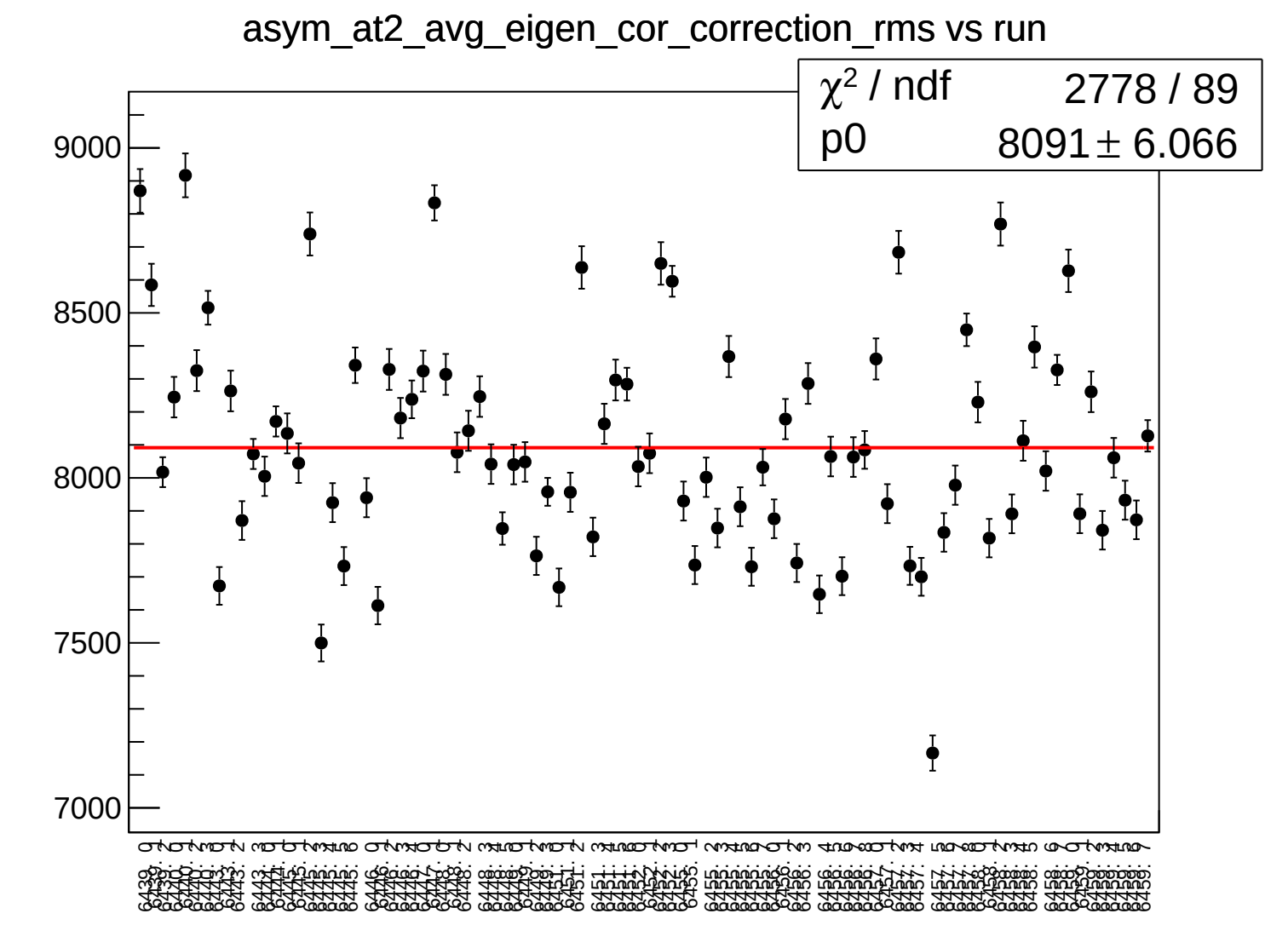

eigen_cor_asym_at2_avg_mean vs run
χ² / ndf 83.13 / 89
p0 2856 ± 2002
pull
Entries 90
Mean −6762
Std Dev 0

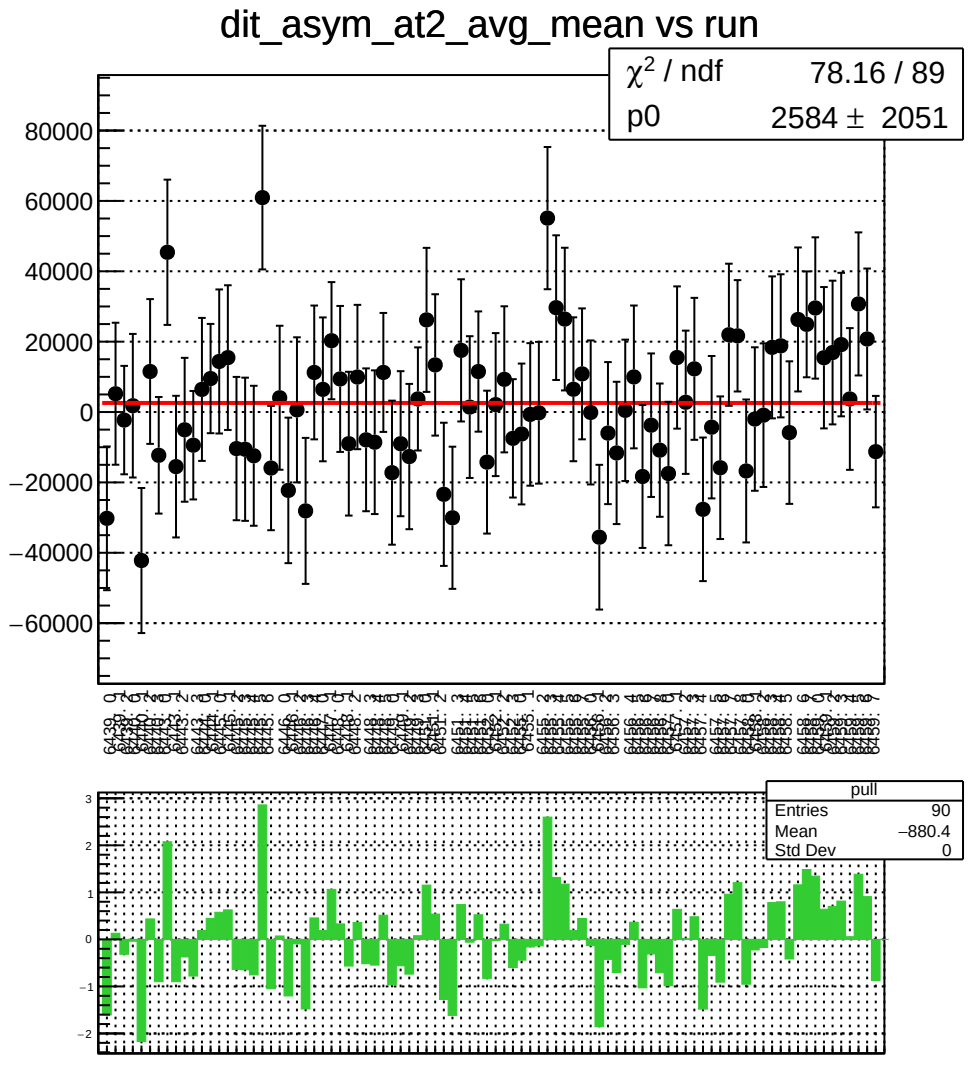

pull1D
Entries 90
Mean −0.0008567
Std Dev 0.9611

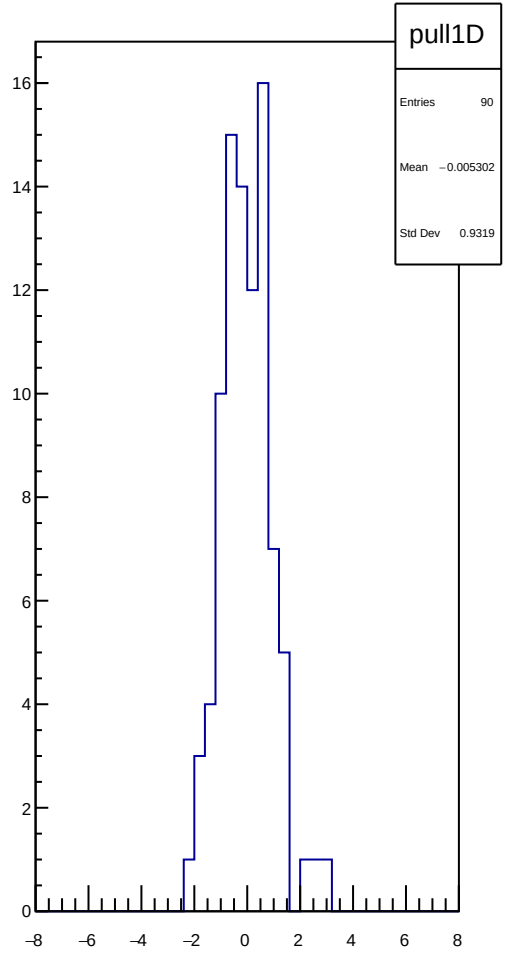

eigen_cor_asym_at2_avg_rms vs run
χ² / ndf 177.9 / 89
p0 1890 ± 1.416
1980
1960
1940
1920
1900
1880
1860
1840
1820

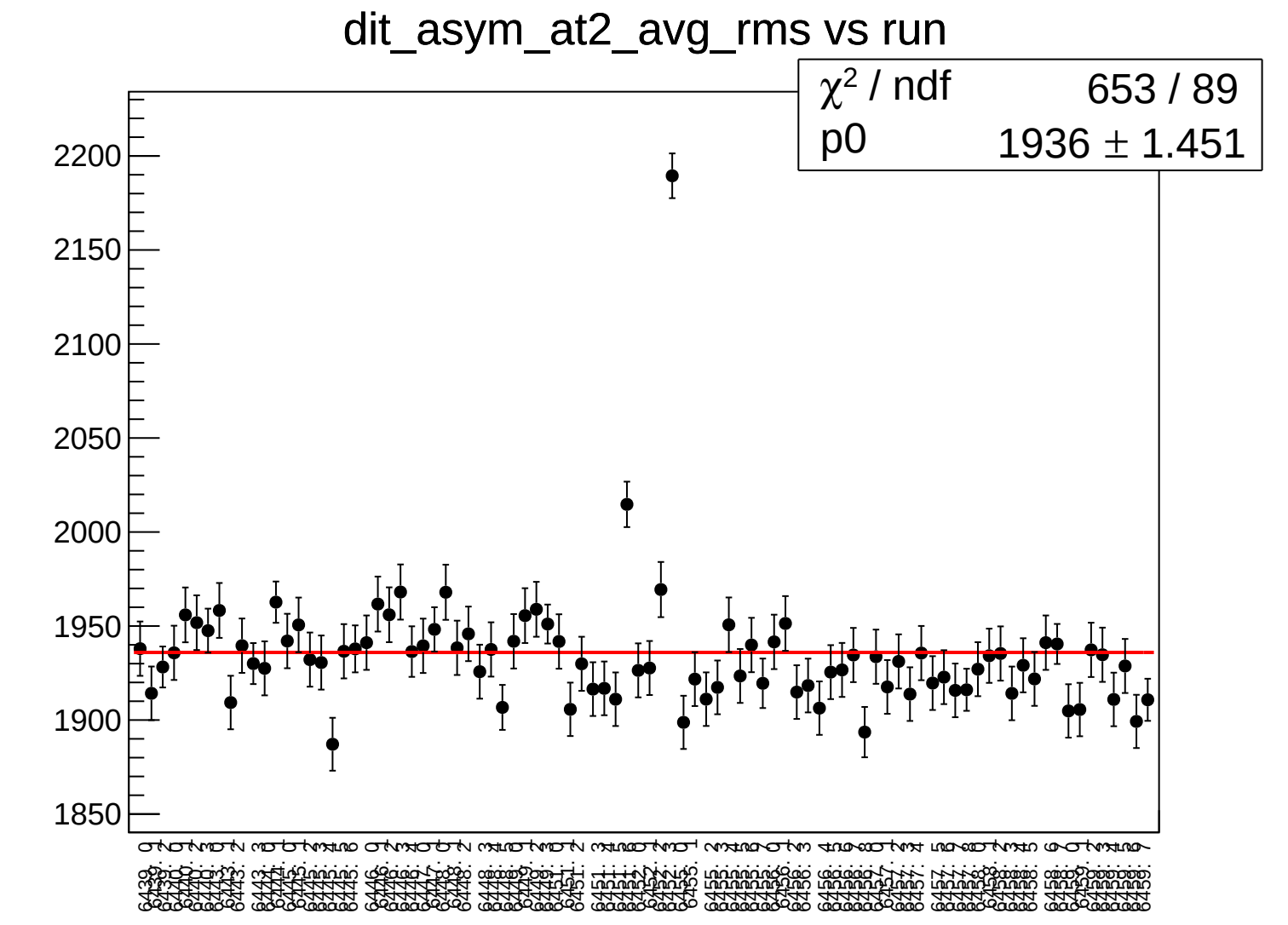

asym_at2_avg_eigen_cor_correction_mean vs run
χ² / ndf 82.24 / 89
p0 −1.311e+04 ± 8579
×10³
200
100
0
−100
−200
−300
pull
Entries 90
Mean −140
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

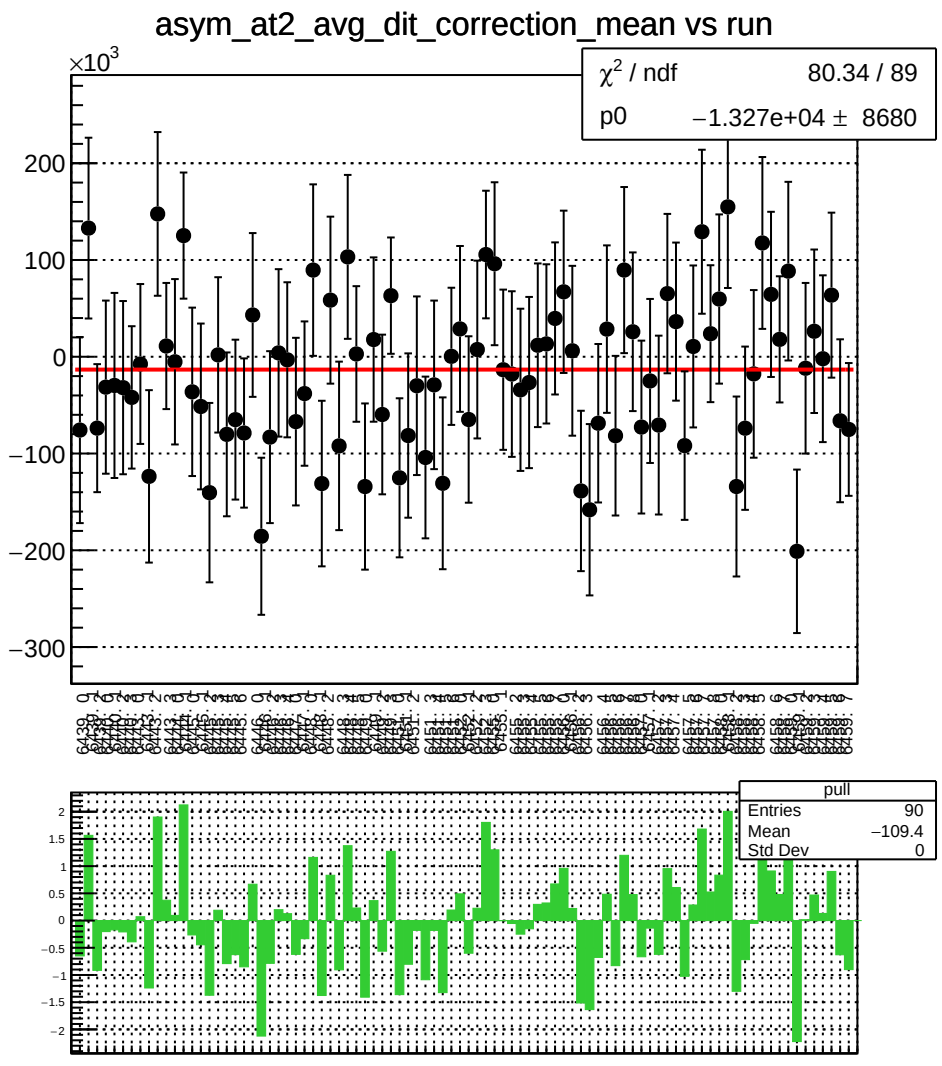

pull1D
Entries 90
Mean −0.01591
Std Dev 0.9558
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

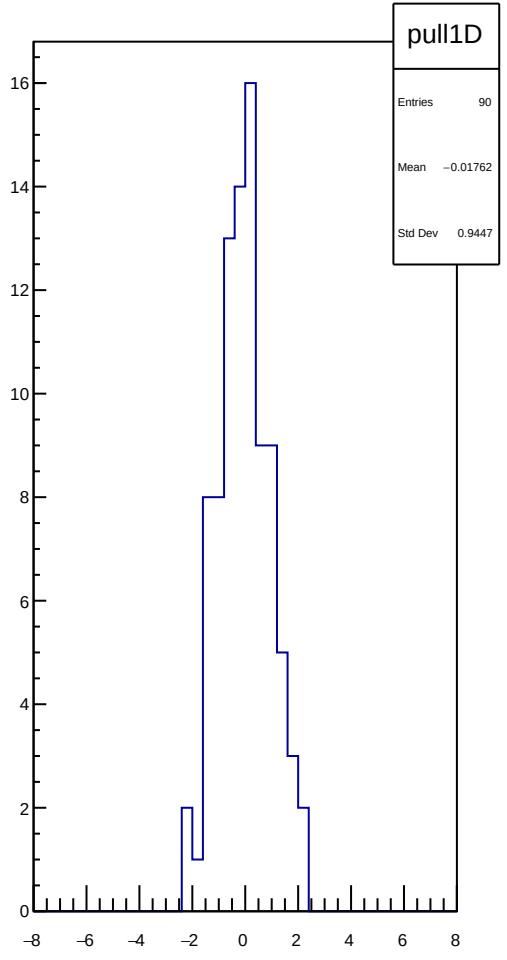

asym_at2_avg_eigen_cor_correction_rms vs run
χ² / ndf 2778 / 89
p0 8091 ± 6.066
9000
8500
8000
7500
7000

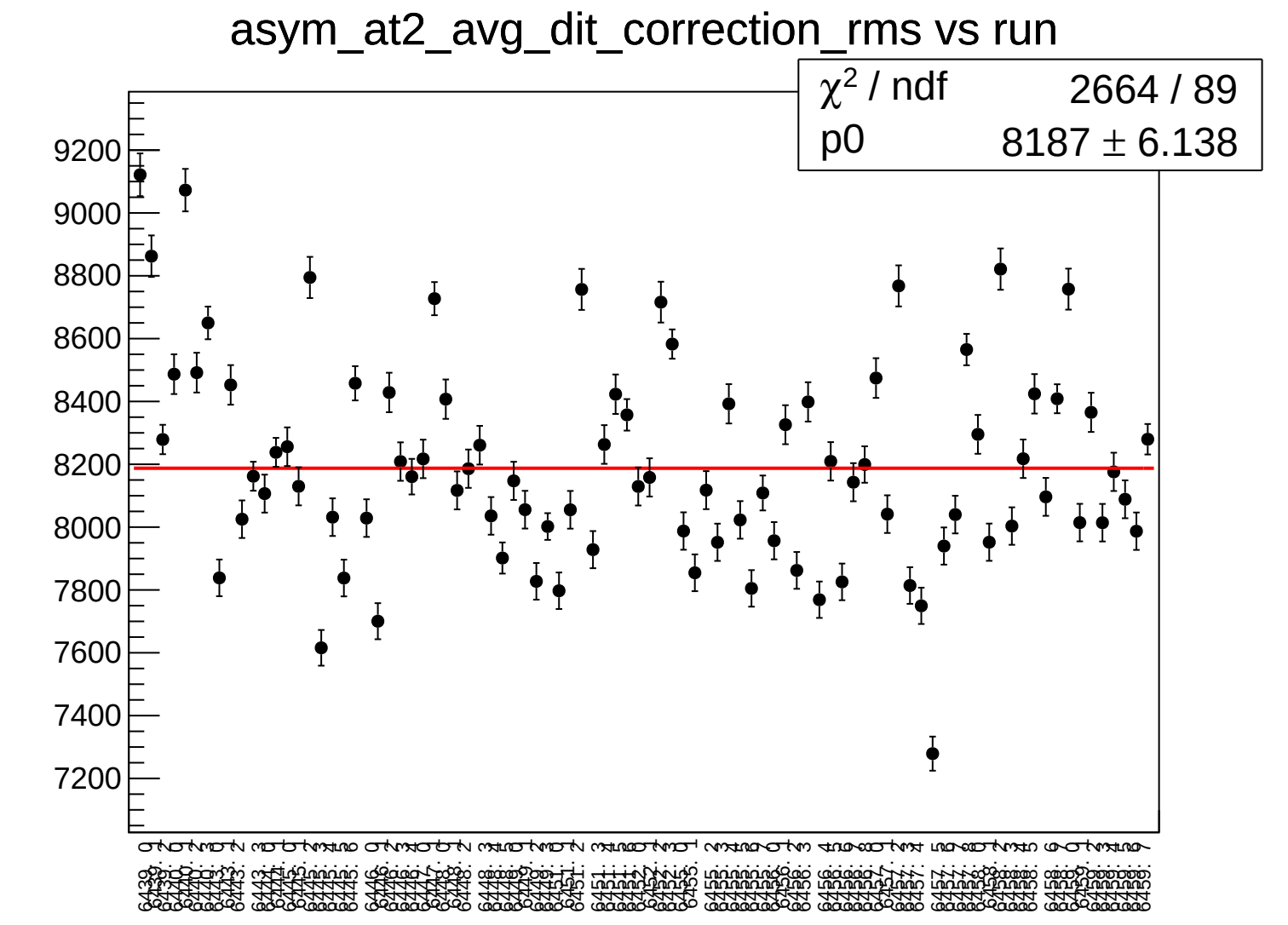

dit_asym_at2_avg_mean vs run
χ² / ndf 78.16 / 89
p0 2584 ± 2051
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −880.4
Std Dev 0
3
2
1
0
−1
−2

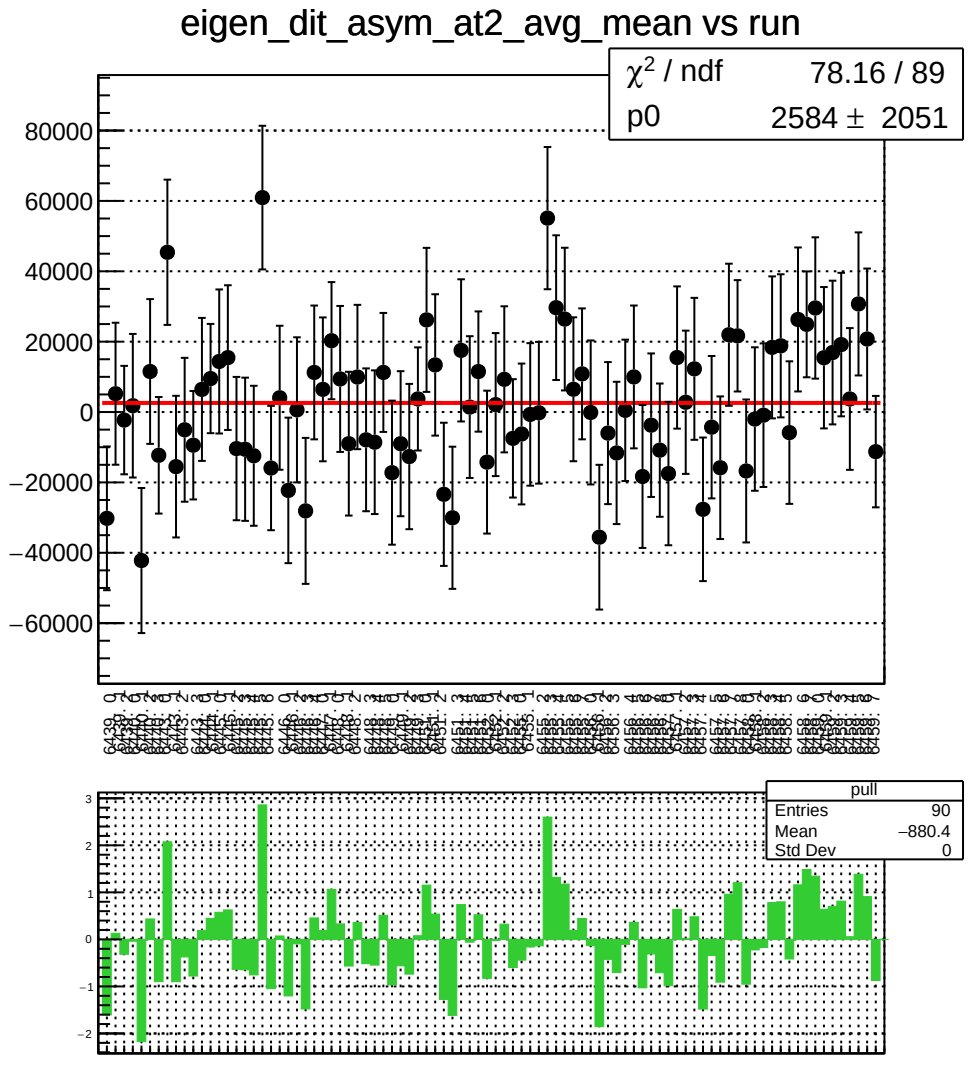

pull1D
Entries 90
Mean −0.005302
Std Dev 0.9319
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

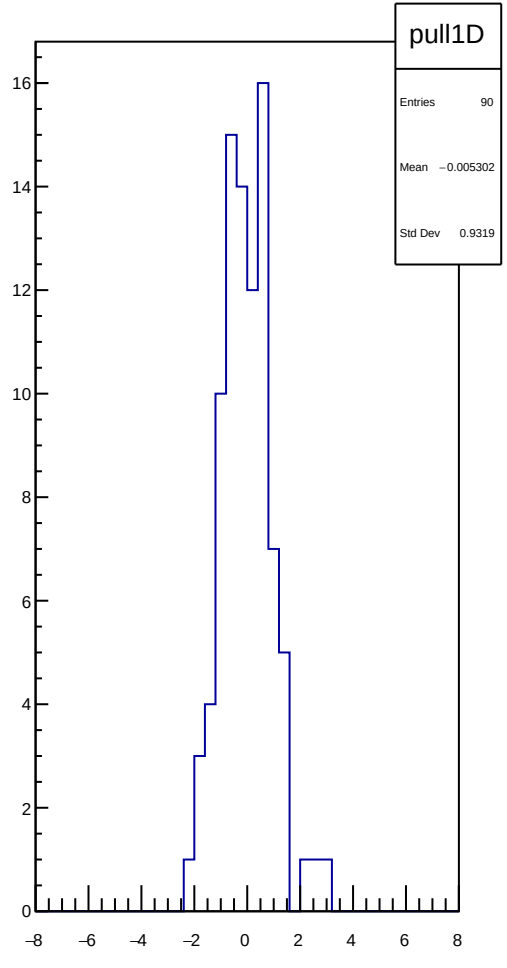

dit_asym_at2_avg_rms vs run
χ² / ndf 653 / 89
p0 1936 ± 1.451
2200
2150
2100
2050
2000
1950
1900
1850

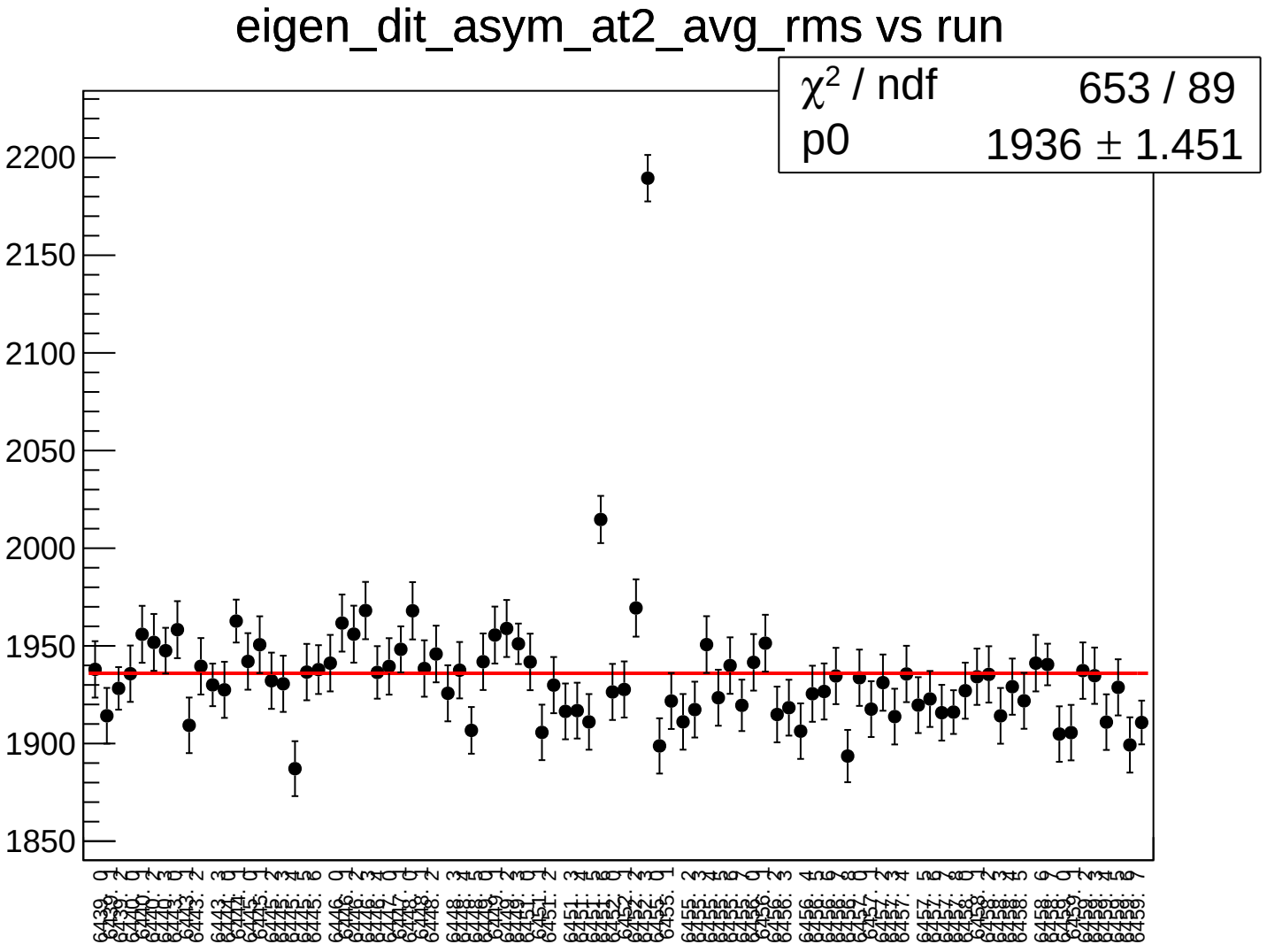

asym_at2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 80.34 / 89
p0 −1.327e+04 ± 8680
200
100
0
−100
−200
−300
pull
Entries 90
Mean −109.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

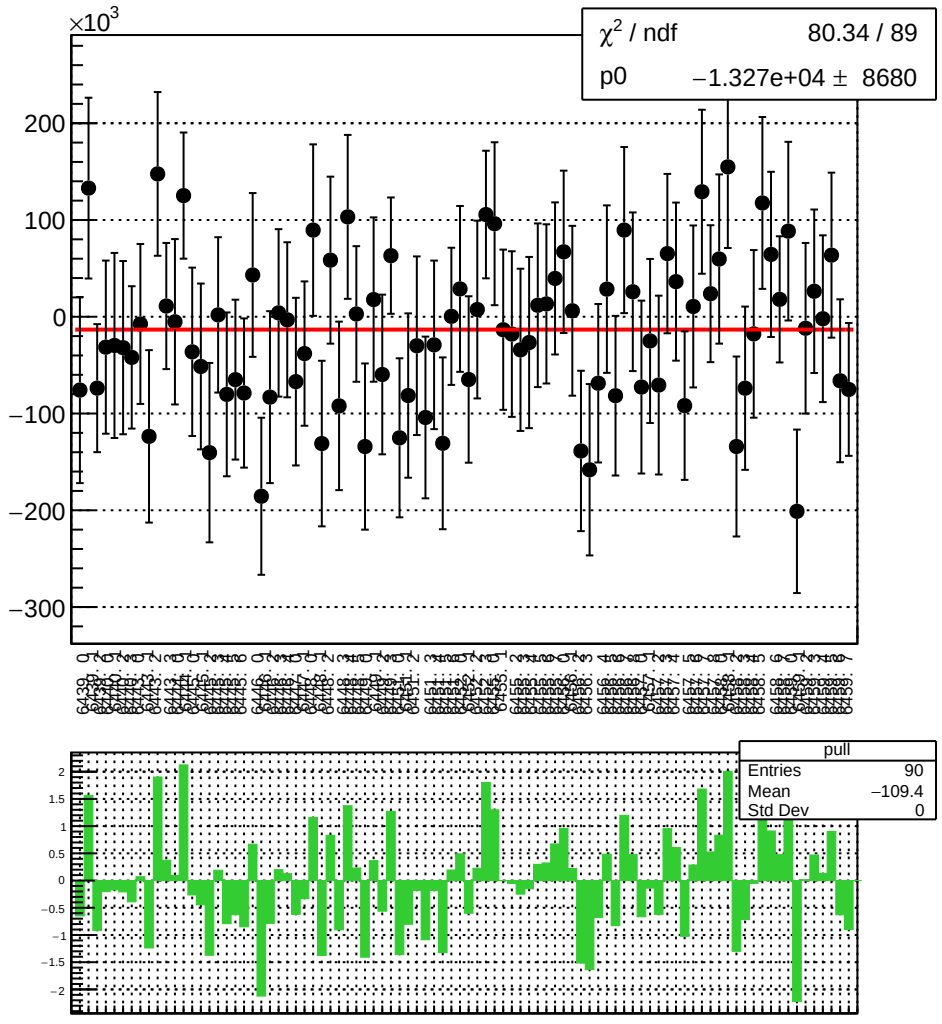

pull1D
Entries 90
Mean −0.01762
Std Dev 0.9447
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

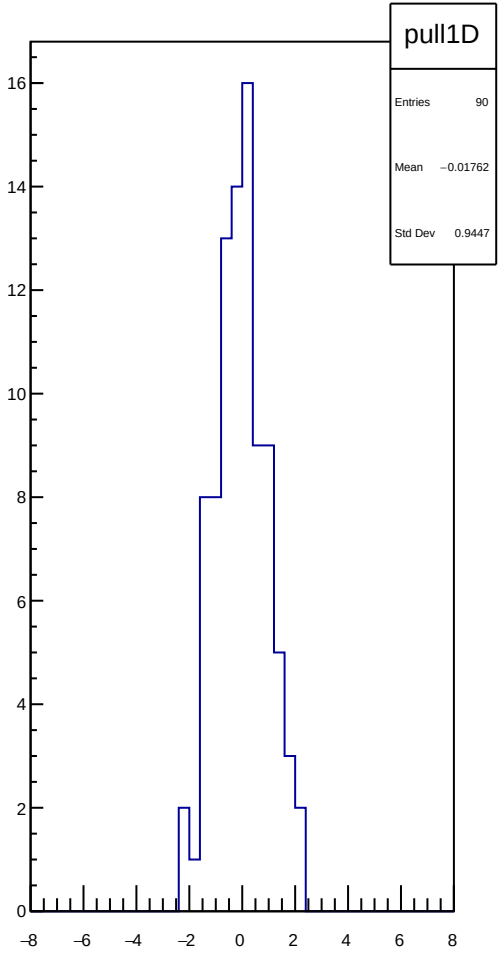

asym_at2_avg_dit_correction_rms vs run
χ² / ndf 2664 / 89
p0 8187 ± 6.138
9200
9000
8800
8600
8400
8200
8000
7800
7600
7400
7200

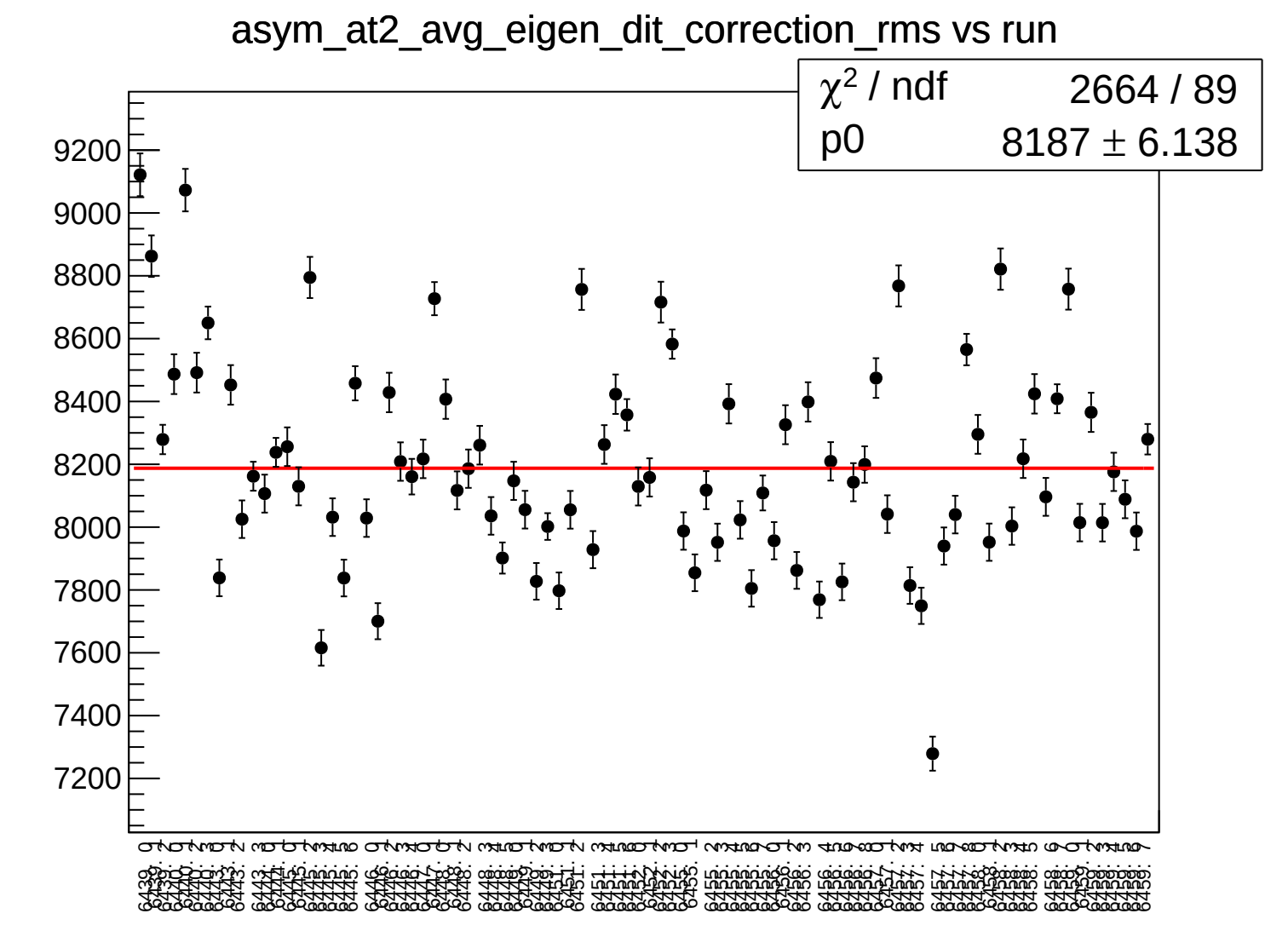

eigen_dit_asym_at2_avg_mean vs run
χ² / ndf 78.16 / 89
p0 2584 ± 2051
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −880.4
Std Dev 0
3
2
1
0
−1
−2

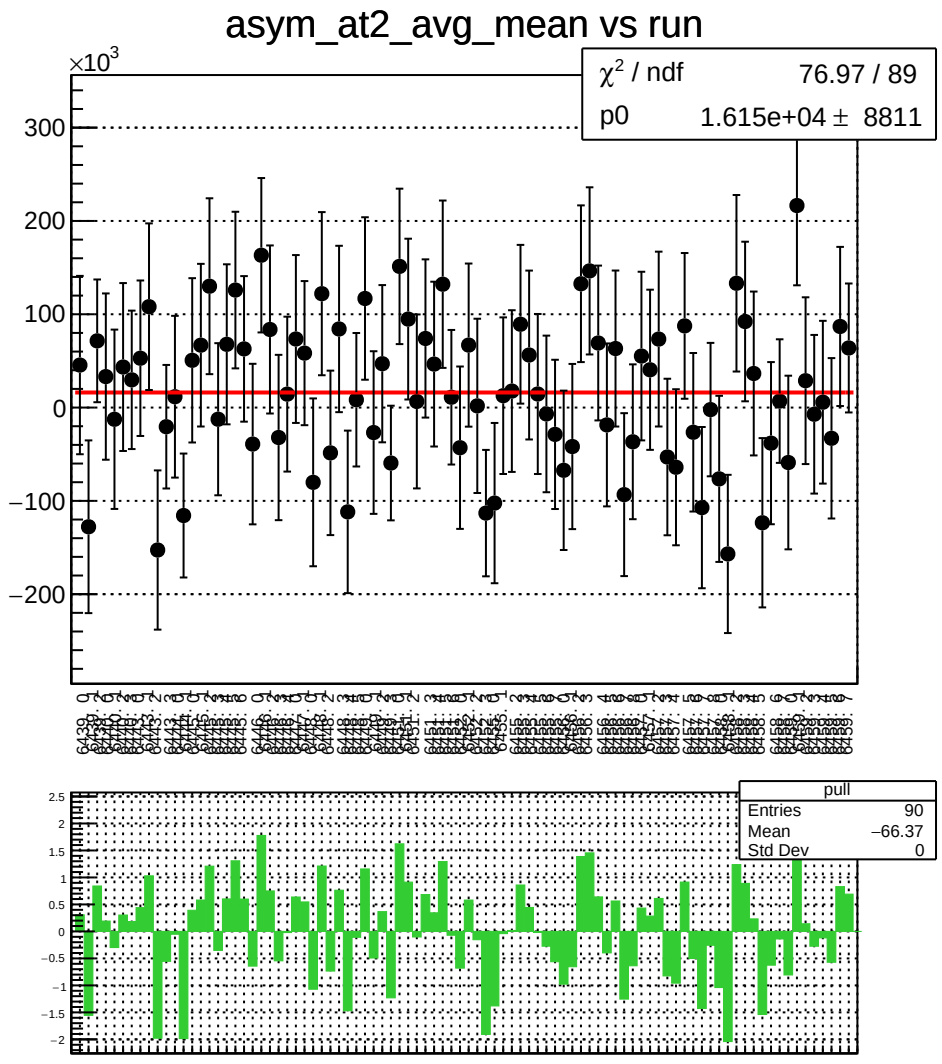

pull1D
Entries 90
Mean −0.005302
Std Dev 0.9319
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

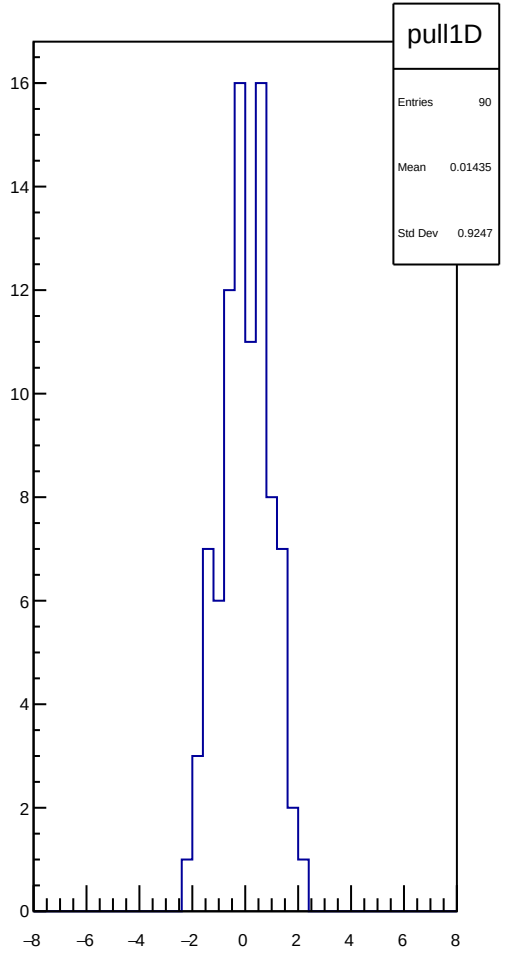

eigen_dit_asym_at2_avg_rms vs run
χ² / ndf 653 / 89
p0 1936 ± 1.451
2200
2150
2100
2050
2000
1950
1900
1850

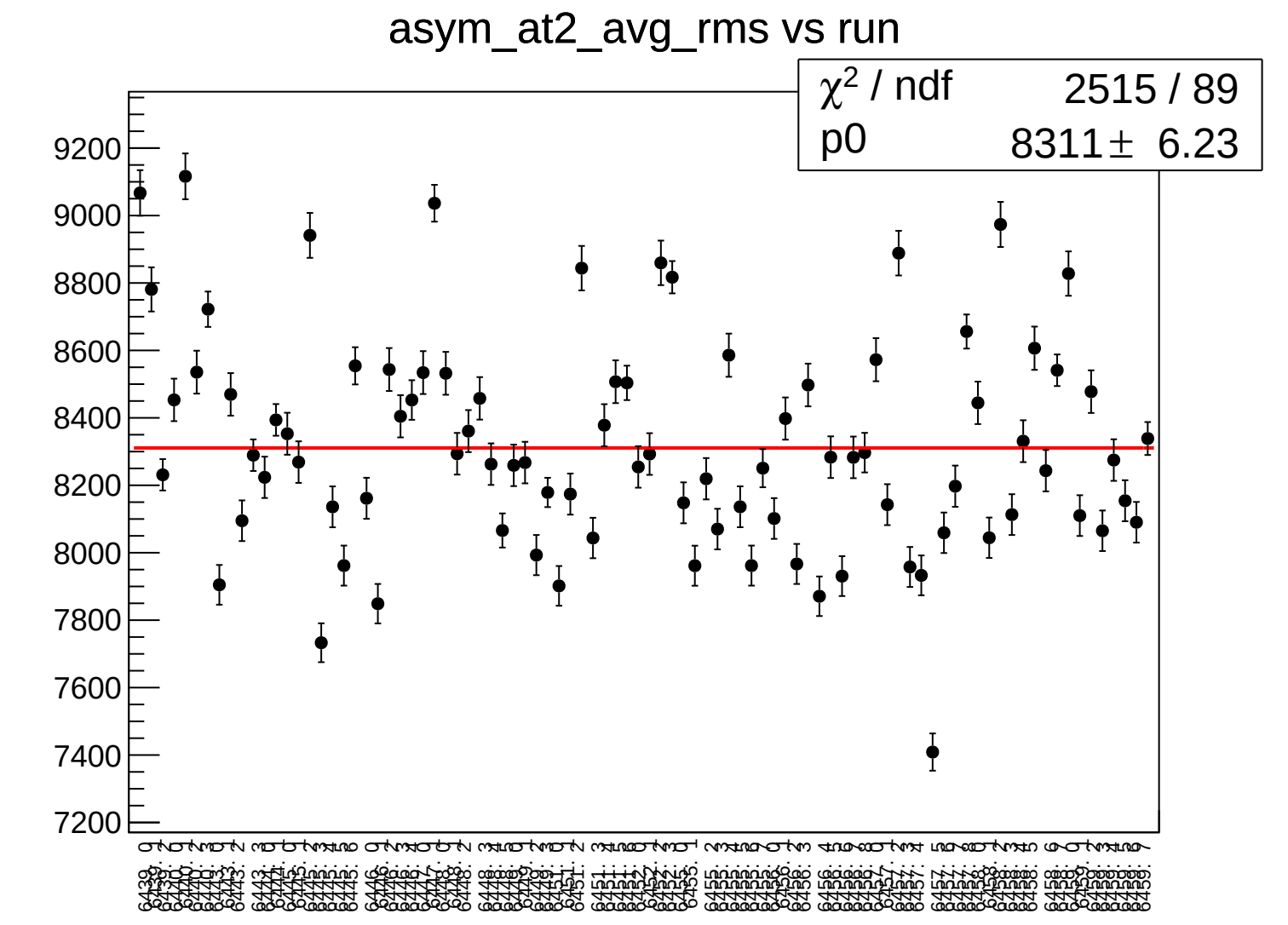

asym_at2_avg_eigen_dit_correction_mean vs run
χ² / ndf 80.34 / 89
p0 −1.327e+04 ± 8680
×10³
pull
Entries 90
Mean −109.4
Std Dev 0

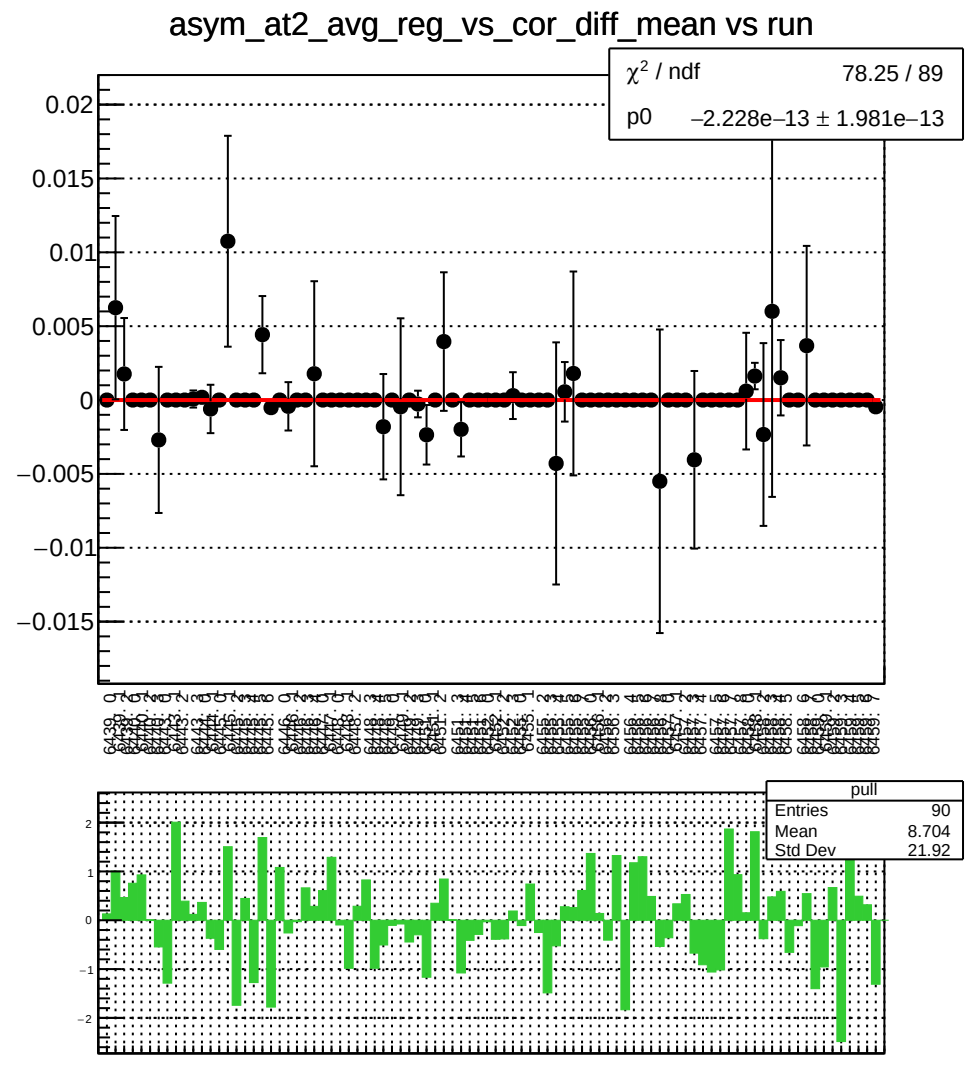

pull1D
Entries 90
Mean −0.01762
Std Dev 0.9447

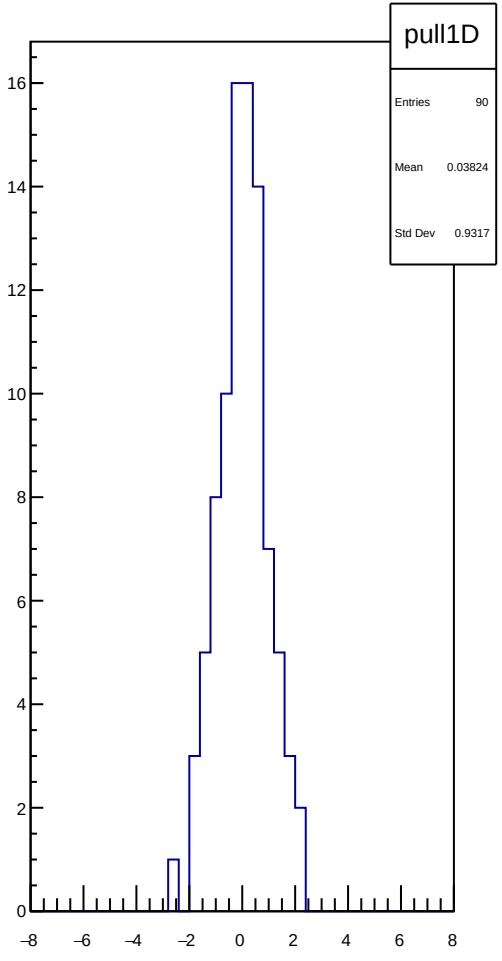

asym_at2_avg_eigen_dit_correction_rms vs run
χ² / ndf 2664 / 89
p0 8187 ± 6.138
9200
9000
8800
8600
8400
8200
8000
7800
7600
7400
7200

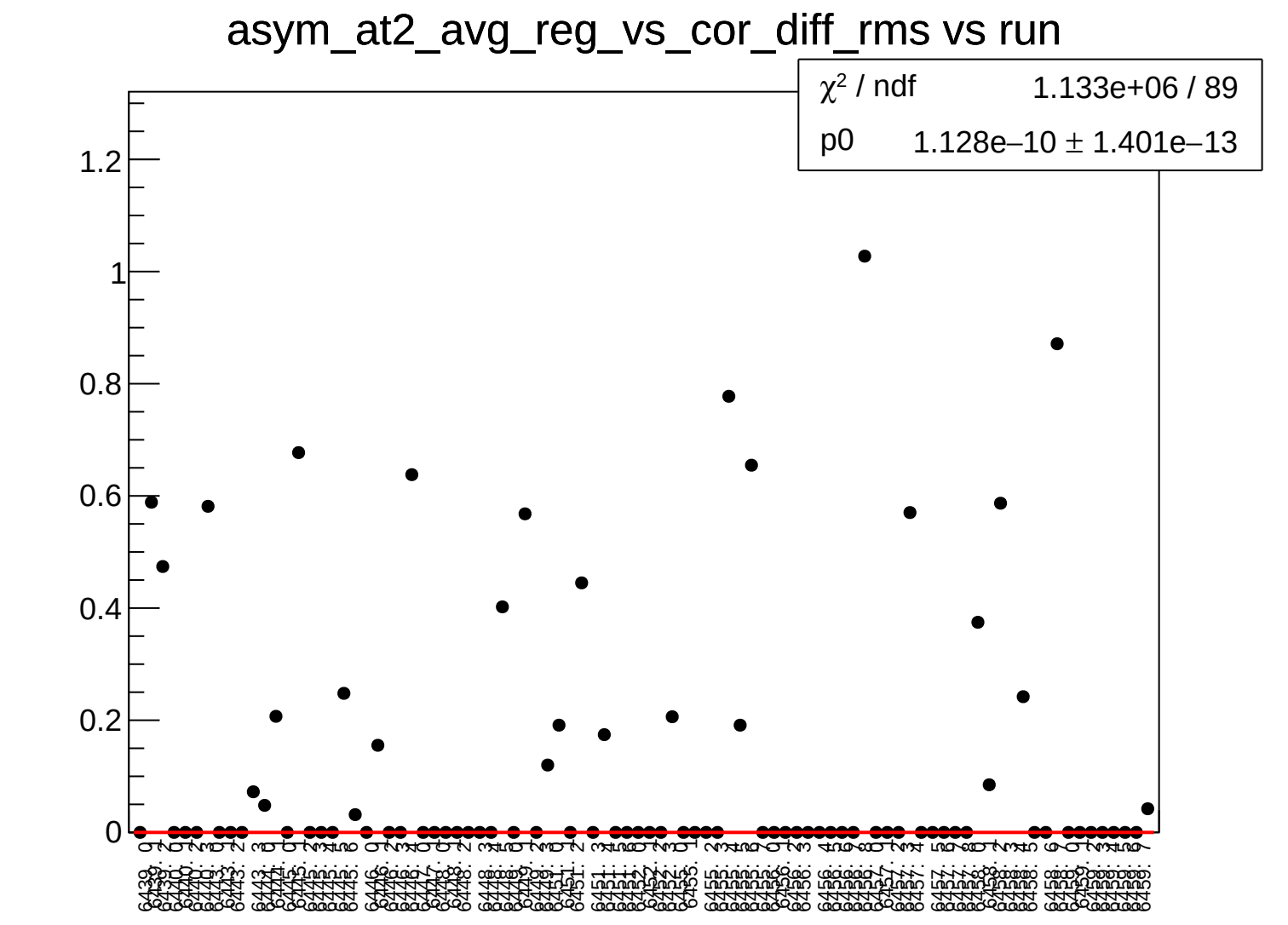

asym_at2_avg_mean vs run
×10^3
χ² / ndf 76.97 / 89
p0 1.615e+04 ± 8811
300
200
100
0
−100
−200
pull
Entries 90
Mean −66.37
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

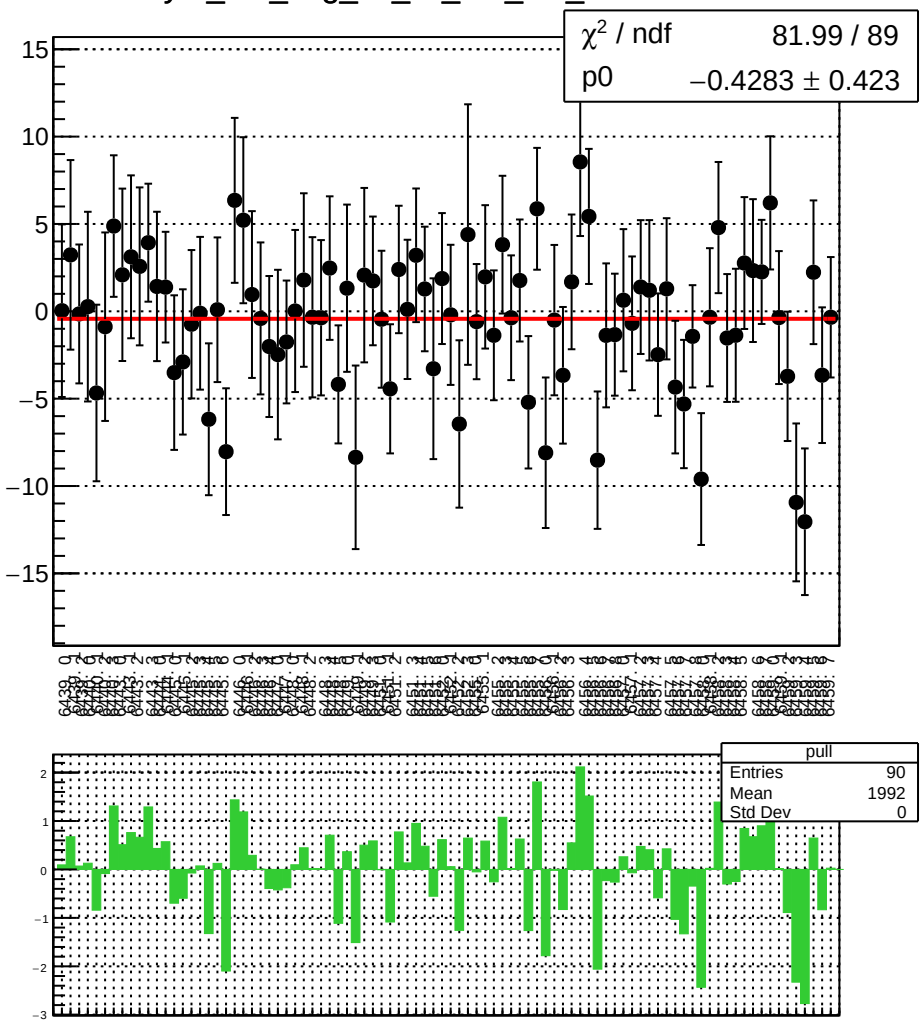

pull1D
Entries 90
Mean 0.01435
Std Dev 0.9247
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

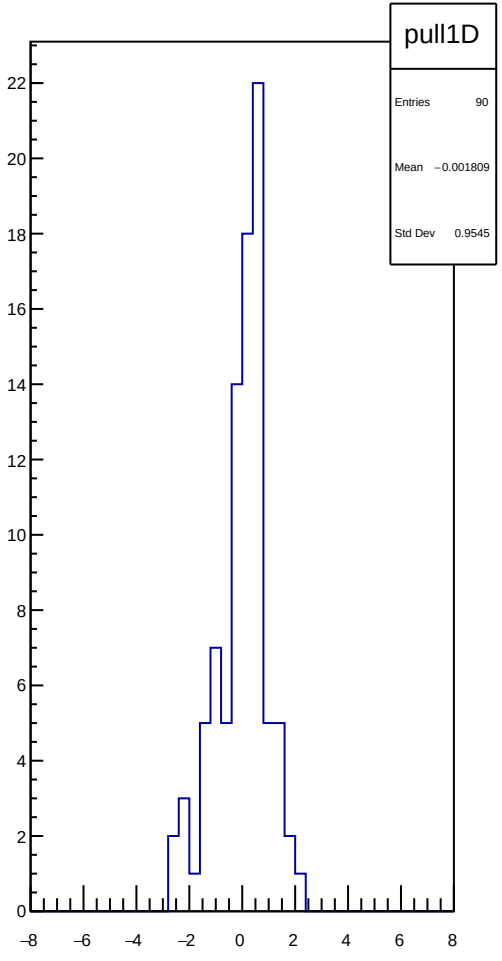

asym_at2_avg_rms vs run
χ² / ndf 2515 / 89
p0 8311 ± 6.23
9200
9000
8800
8600
8400
8200
8000
7800
7600
7400
7200

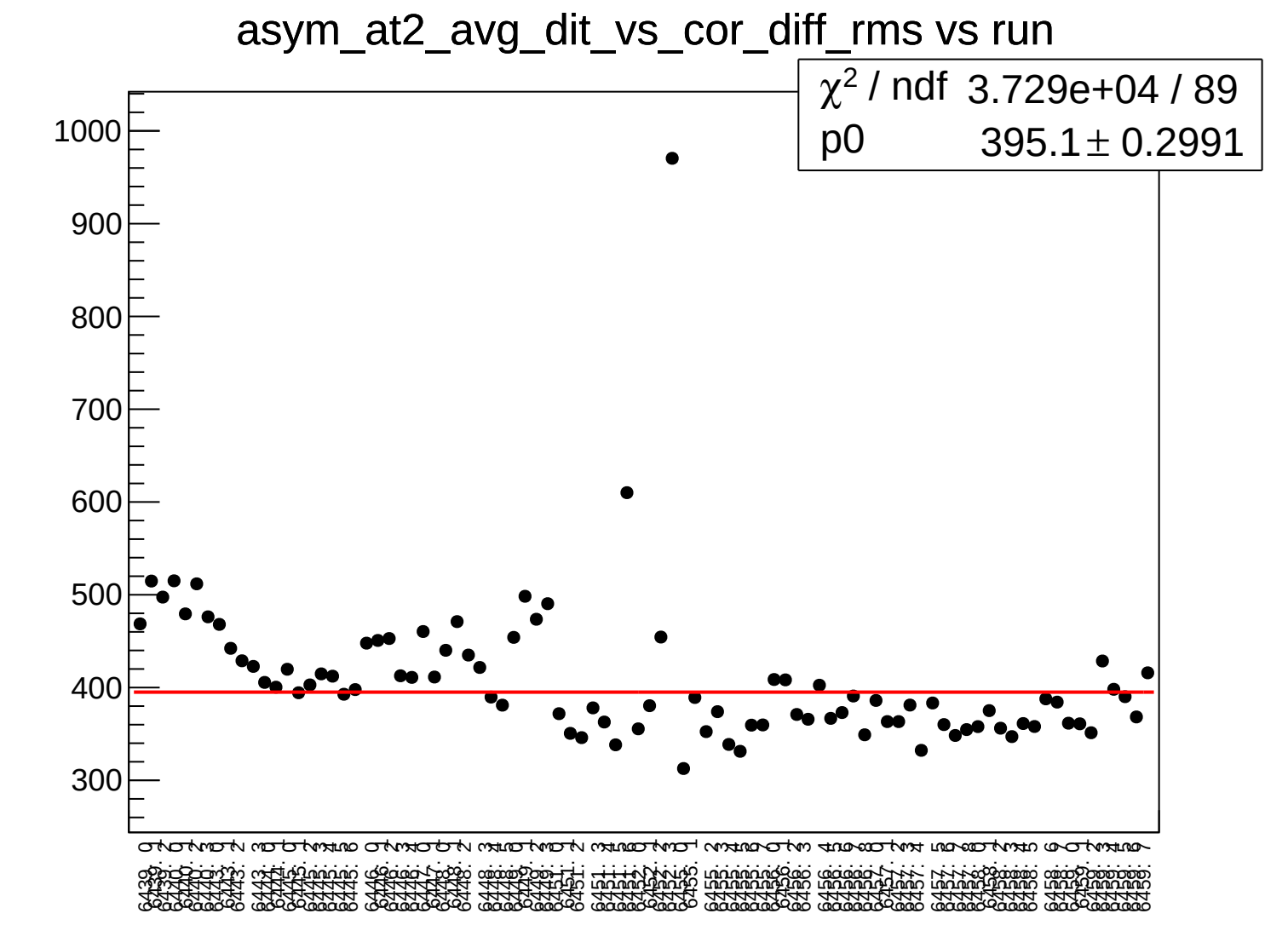

asym_at2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 78.25 / 89
p0 −2.228e−13 ± 1.981e−13
pull
Entries 90
Mean 8.704
Std Dev 21.92

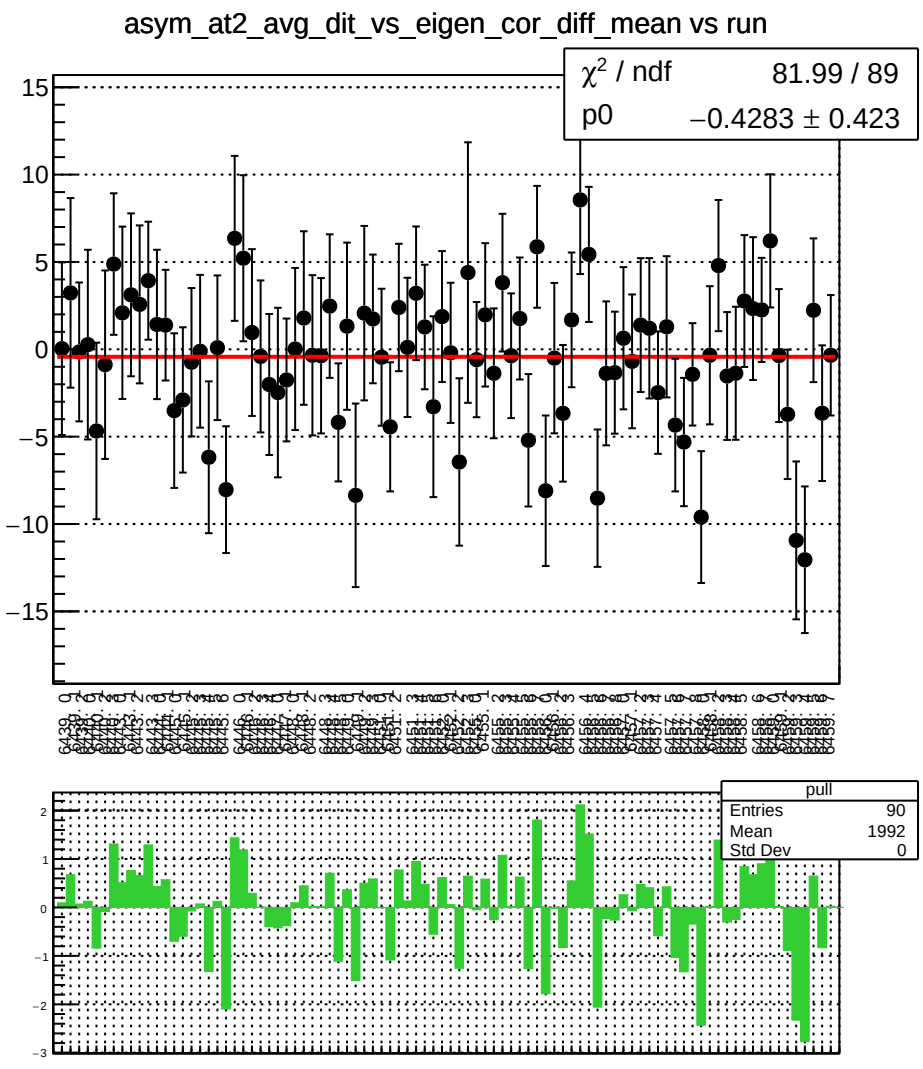

pull1D
Entries 90
Mean 0.03824
Std Dev 0.9317

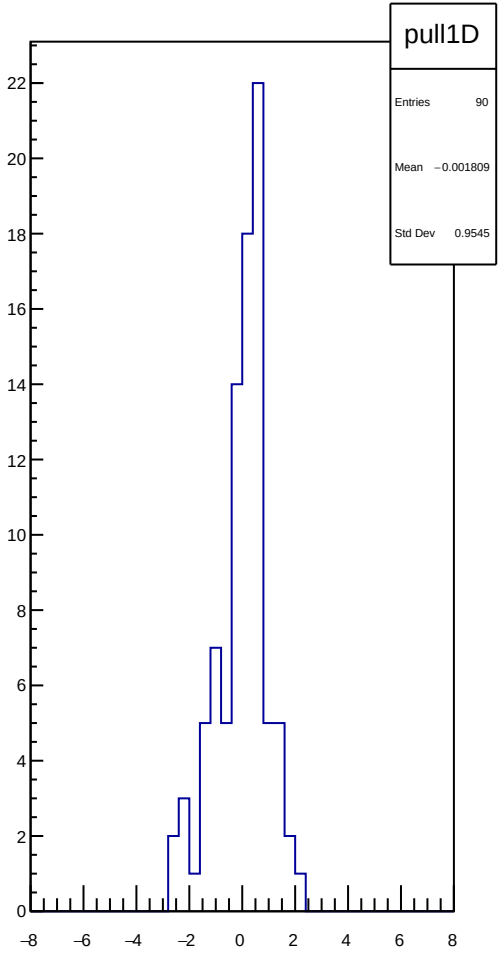

asym_at2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.133e+06 / 89
p0 1.128e−10 ± 1.401e−13
1.2
1
0.8
0.6
0.4
0.2
0

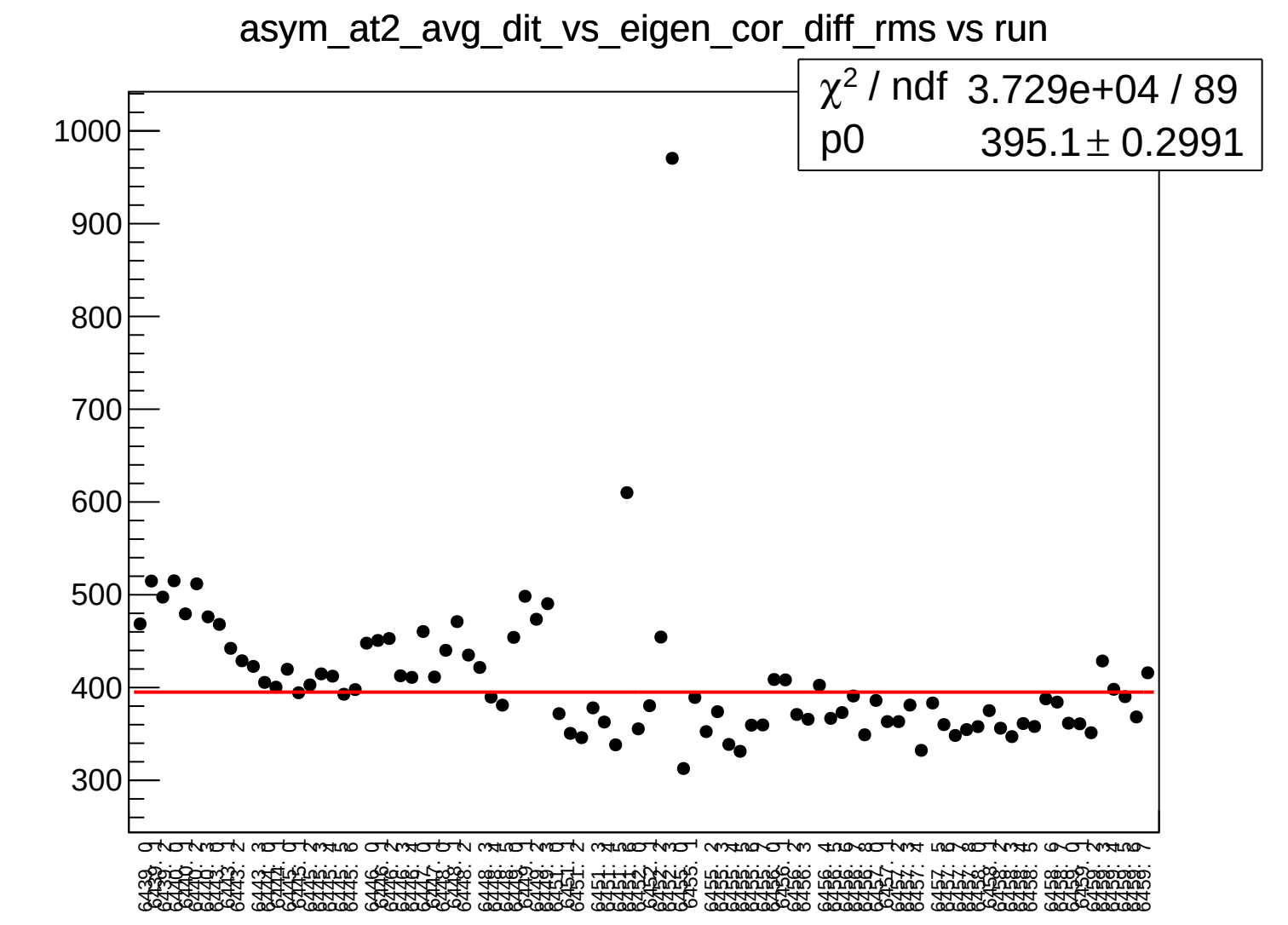

asym_at2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 81.99 / 89
p0 −0.4283 ± 0.423
pull
Entries 90
Mean 1992
Std Dev 0

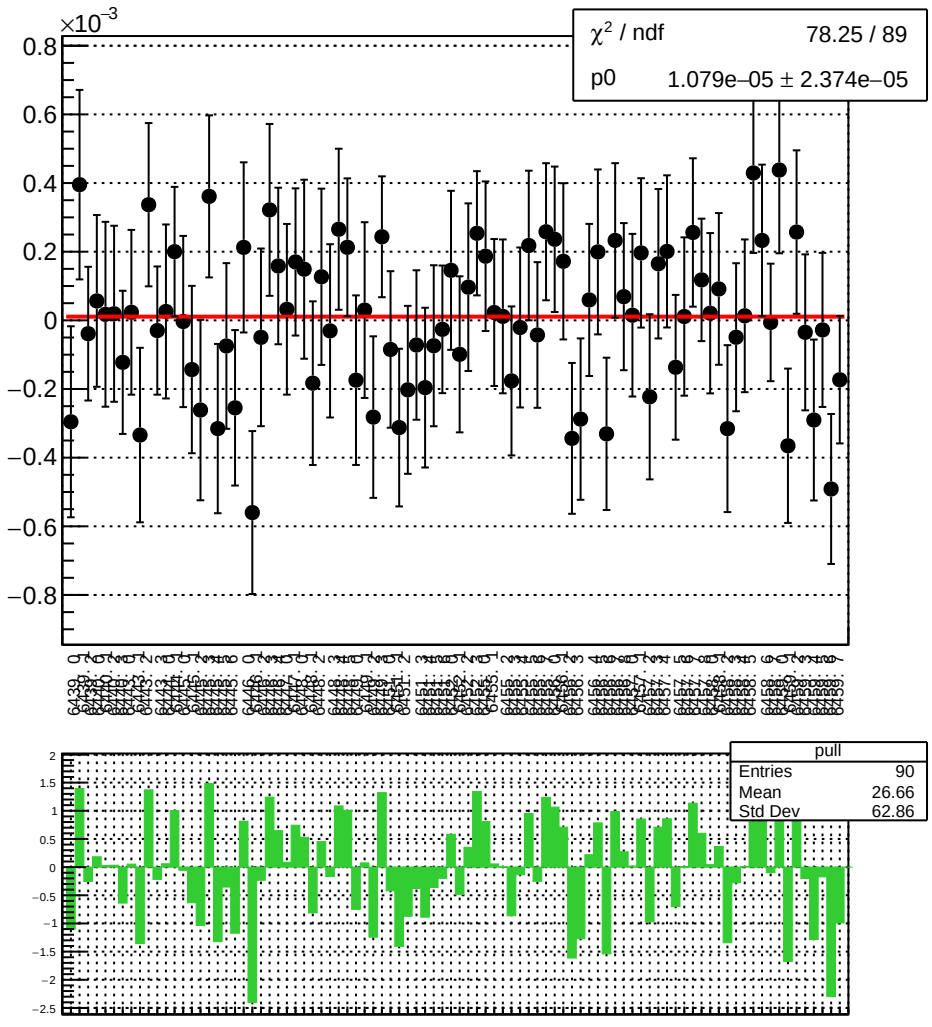

pull1D
Entries 90
Mean −0.001809
Std Dev 0.9545

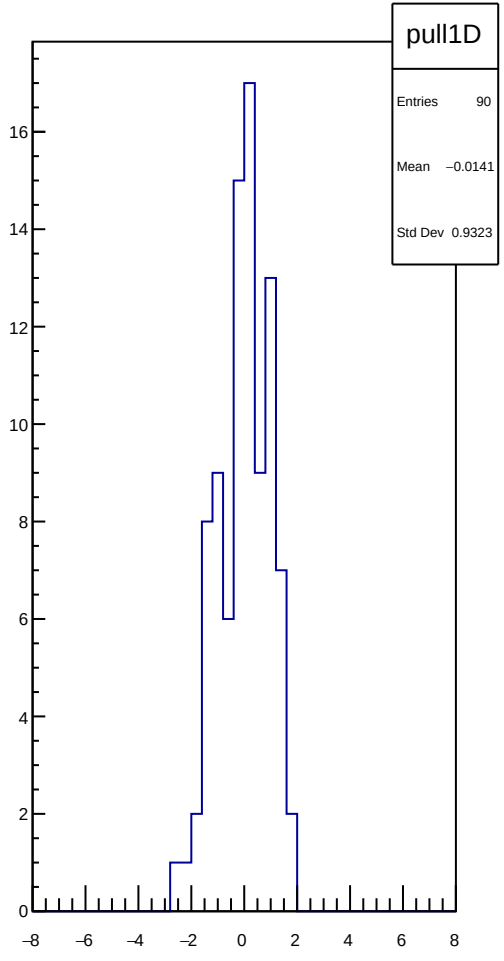

asym_at2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.729e+04 / 89
p0 395.1 ± 0.2991
1000
900
800
700
600
500
400
300

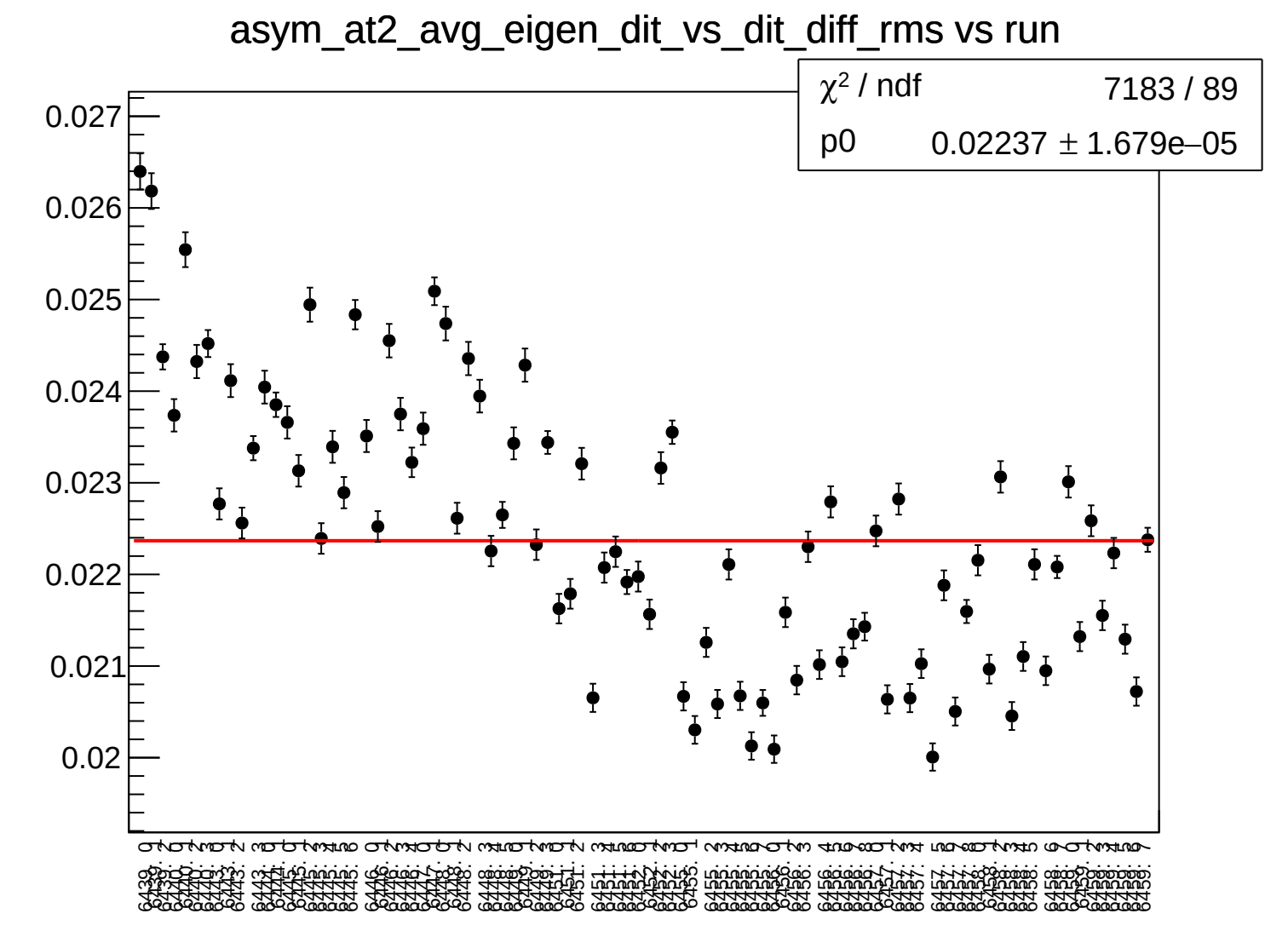

asym_at2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.99 / 89
p0 −0.4283 ± 0.423
pull
Entries 90
Mean 1992
Std Dev 0

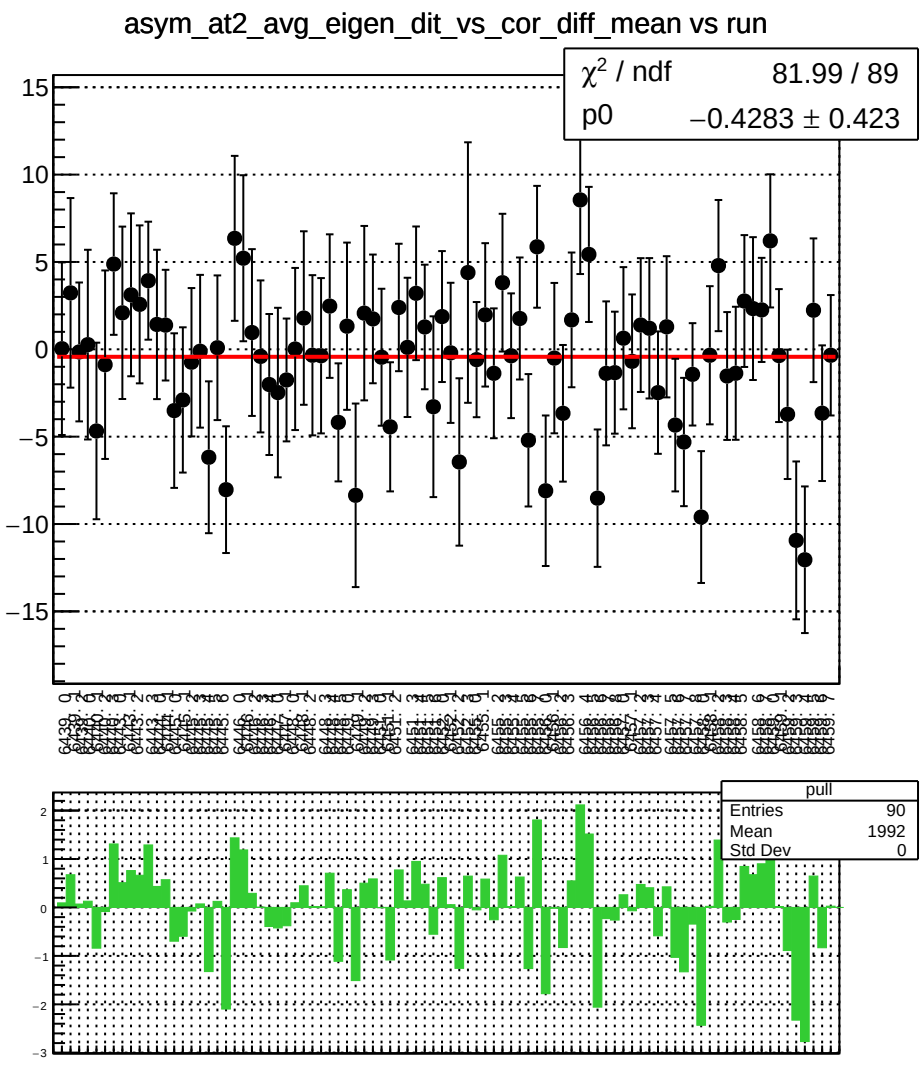

pull1D
Entries 90
Mean −0.001809
Std Dev 0.9545

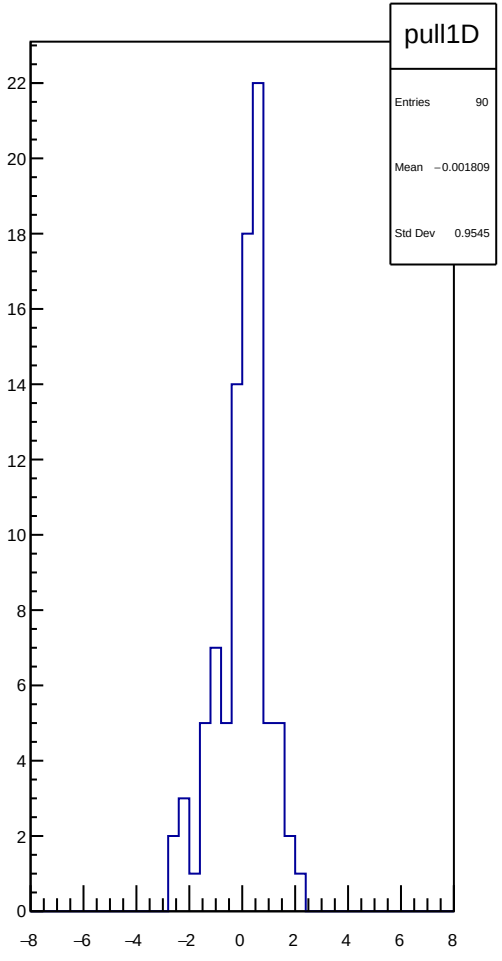

asym_at2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.729e+04 / 89
p0 395.1 ± 0.2991
1000
900
800
700
600
500
400
300

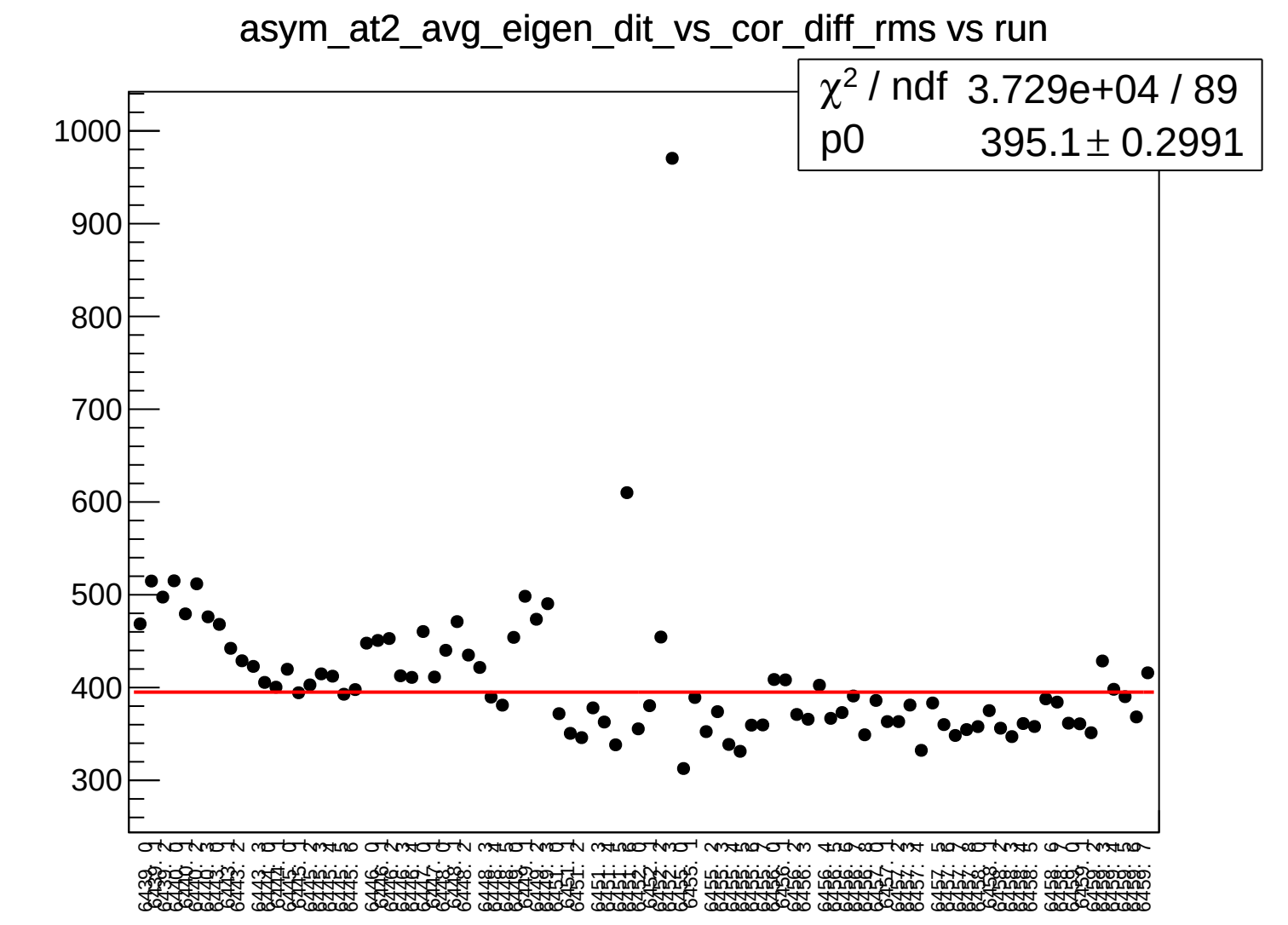

asym_at2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 78.25 / 89
p0 1.079e−05 ± 2.374e−05
pull
Entries 90
Mean 26.66
Std Dev 62.86

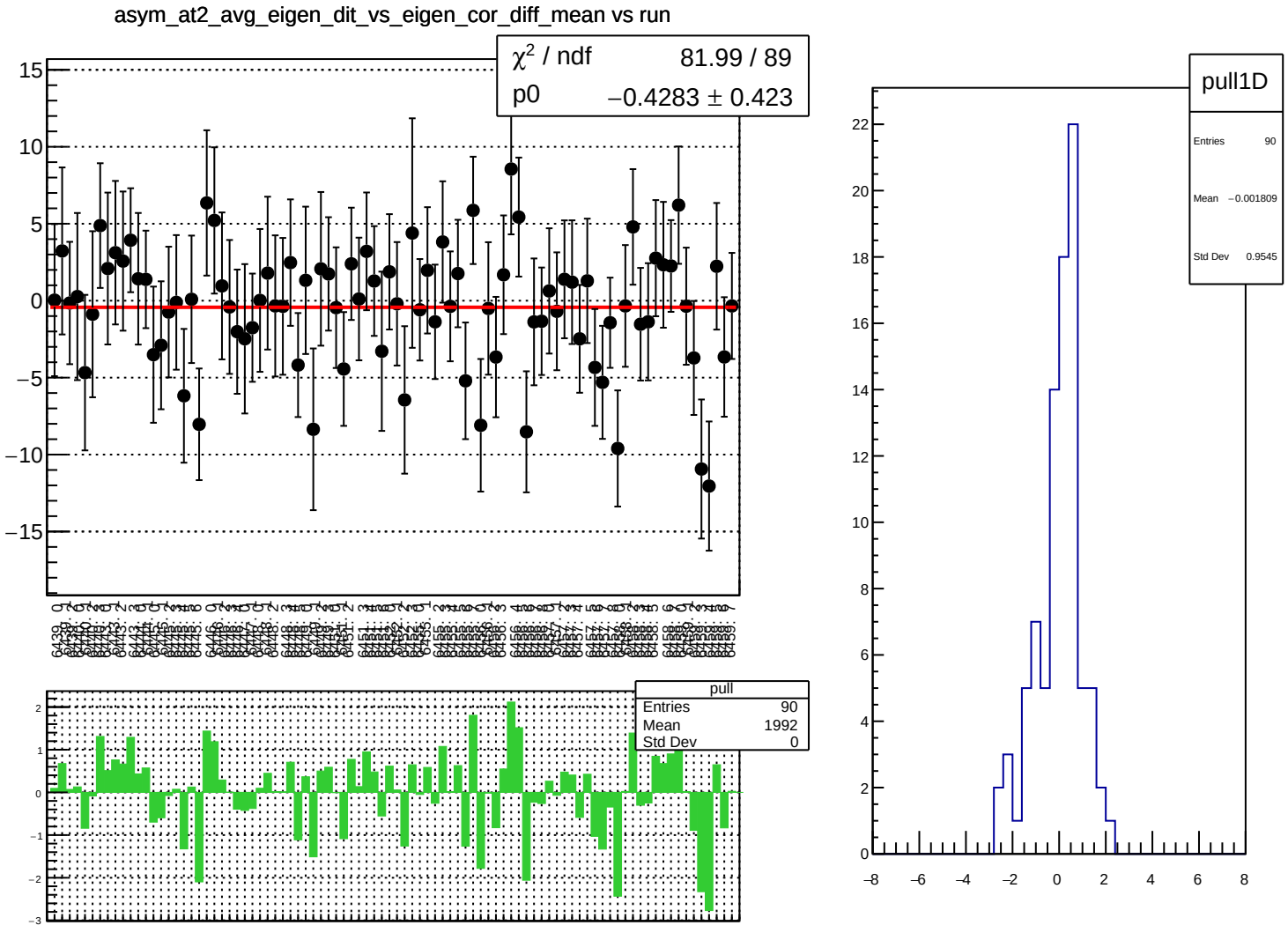

pull1D
Entries 90
Mean −0.0141
Std Dev 0.9323

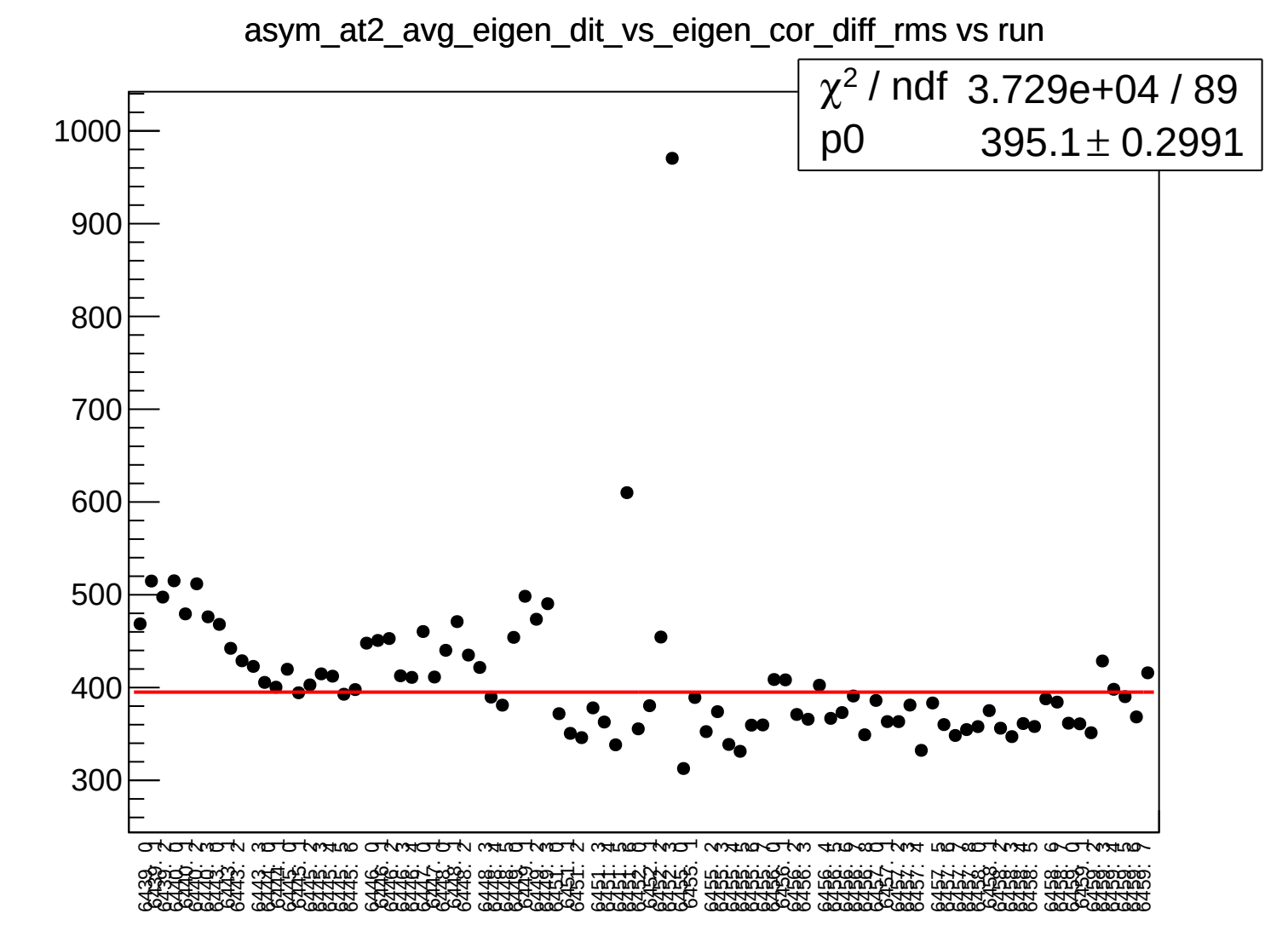

asym_at2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7183 / 89
p0 0.02237 ± 1.679e–05
0.027
0.026
0.025
0.024
0.023
0.022
0.021
0.02

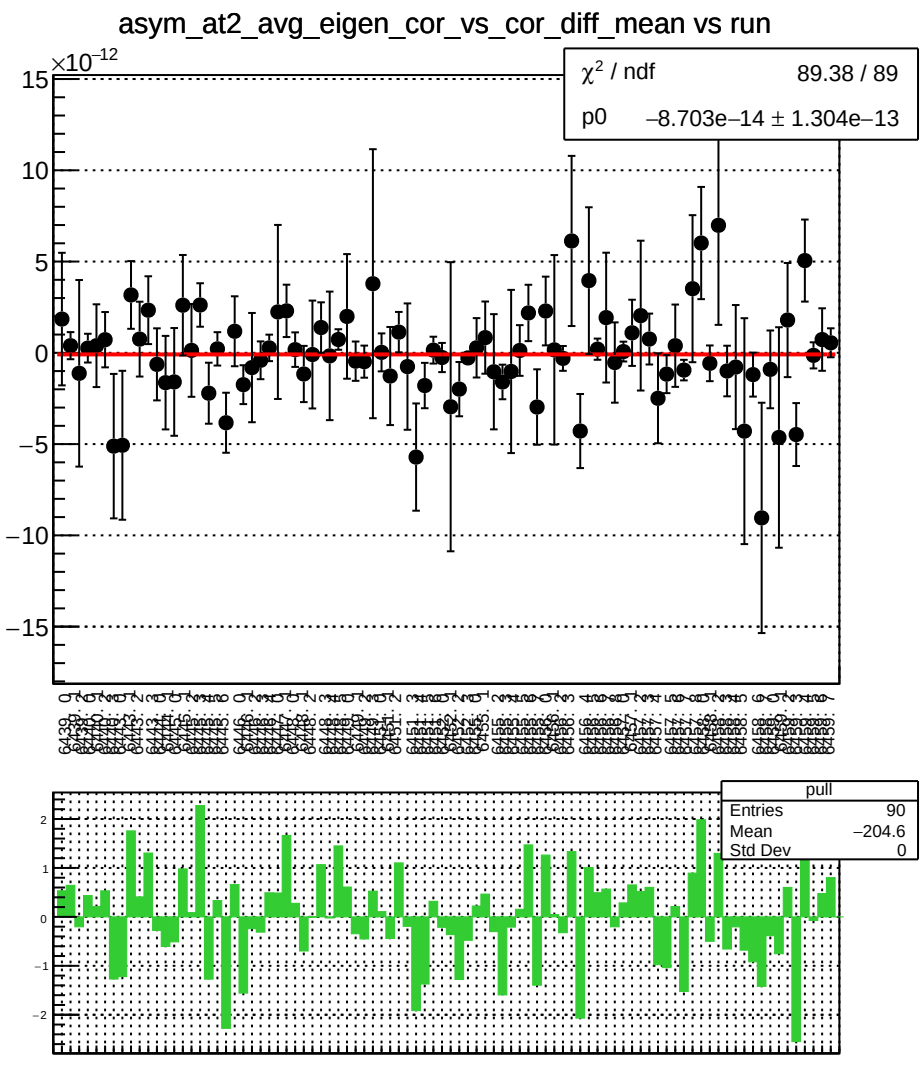

asym_at2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.99 / 89
p0 −0.4283 ± 0.423
pull
Entries 90
Mean 1992
Std Dev 0

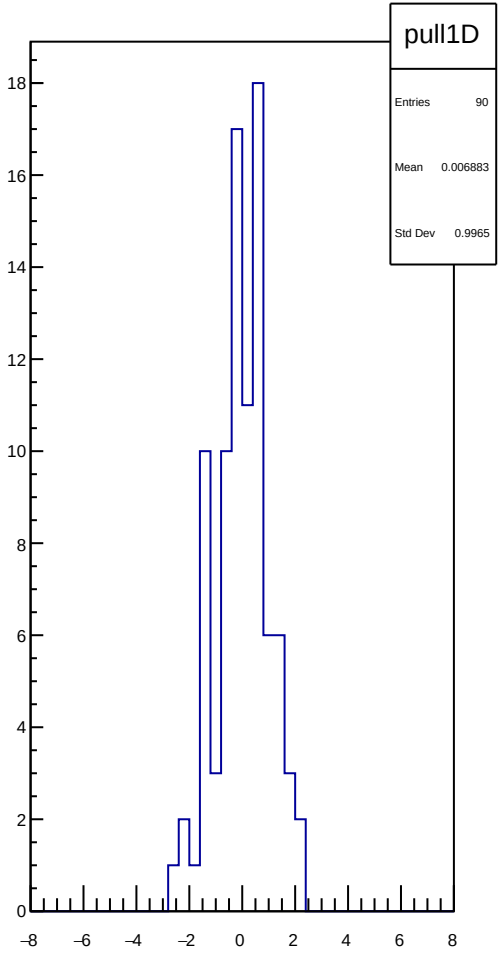

pull1D
Entries 90
Mean −0.001809
Std Dev 0.9545

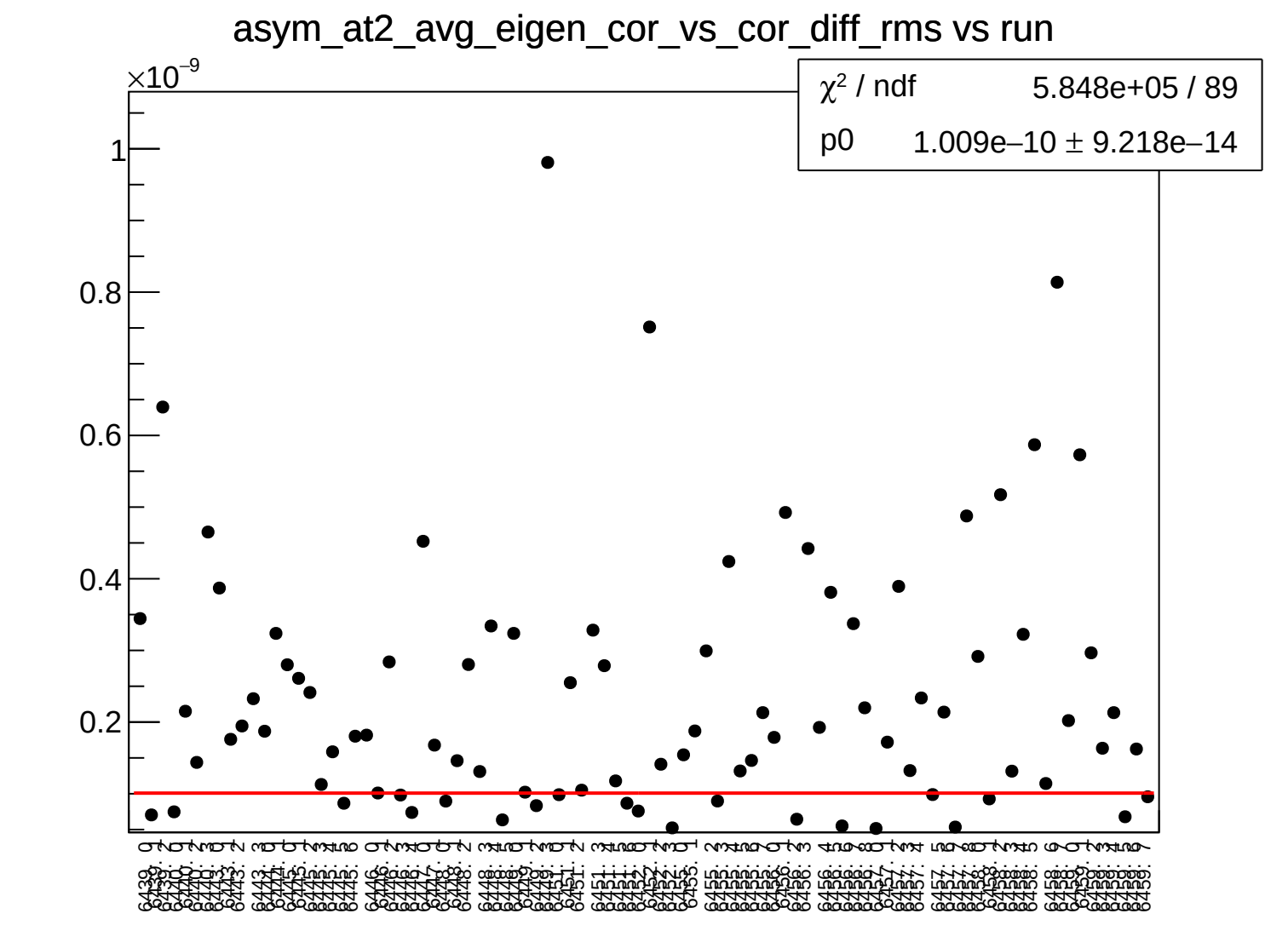

asym_at2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.729e+04 / 89
p0 395.1 ± 0.2991
1000
900
800
700
600
500
400
300

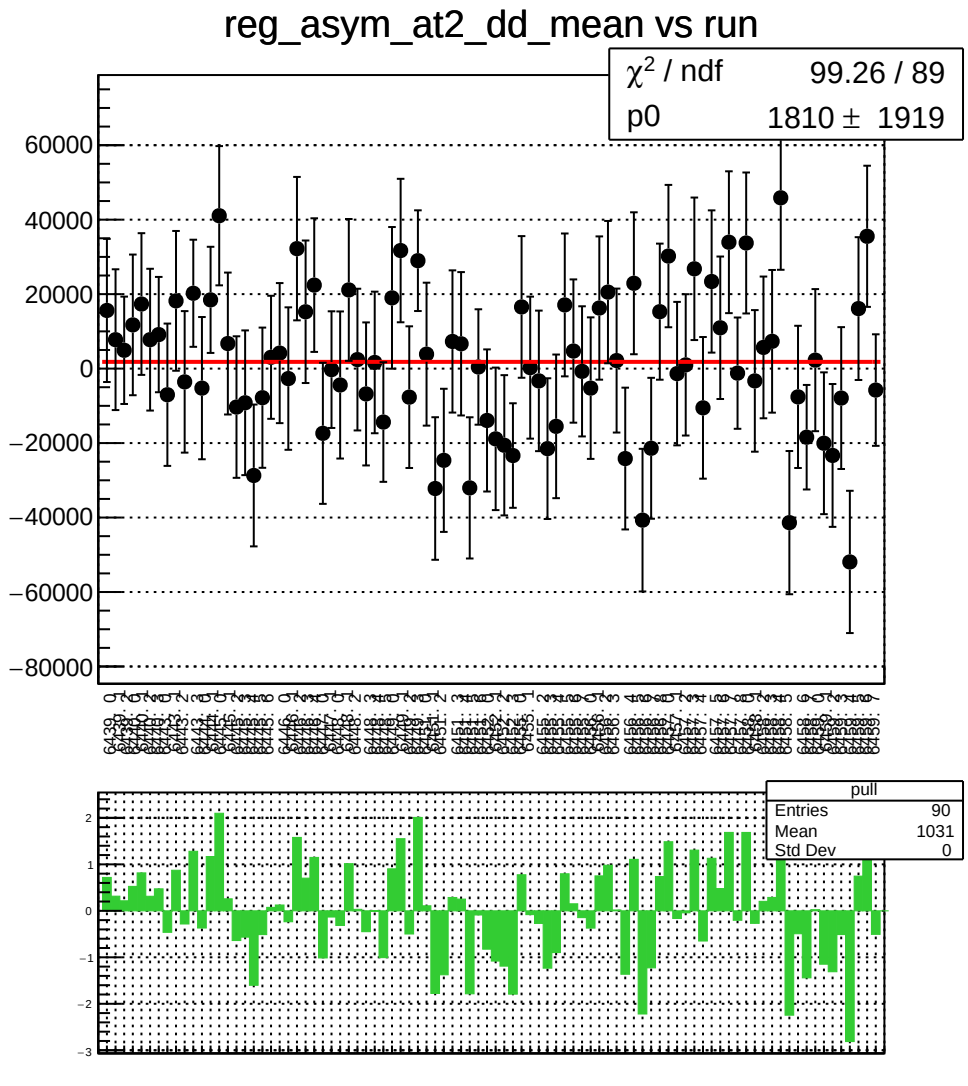

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.99 / 89
p0 −0.4283 ± 0.423
pull
Entries 90
Mean 1992
Std Dev 0
pull1D
Entries 90
Mean −0.001809
Std Dev 0.9545

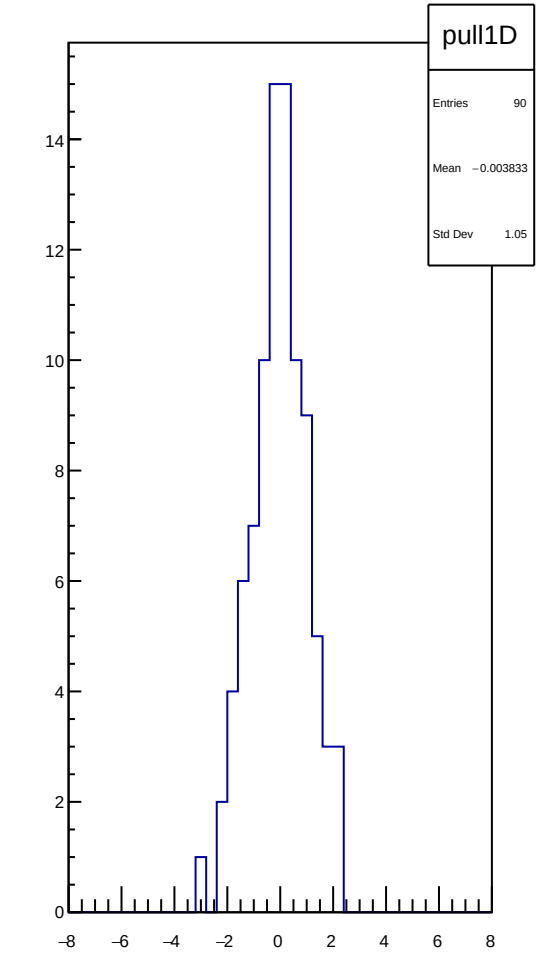

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.729e+04 / 89
p0 395.1 ± 0.2991
1000
900
800
700
600
500
400
300


asym_at2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.38 / 89
p0 −8.703e−14 ± 1.304e−13
pull
Entries 90
Mean −204.6
Std Dev 0

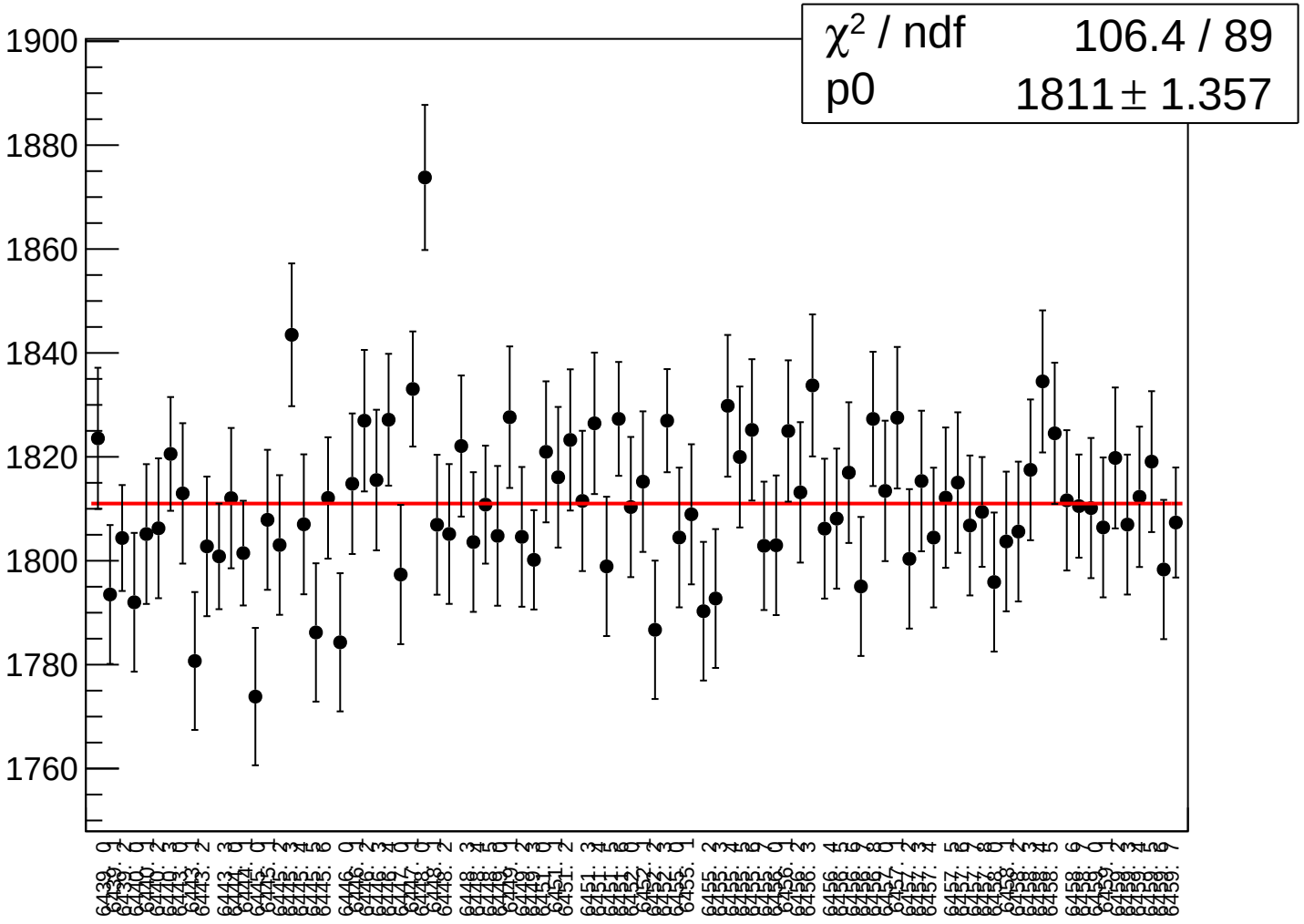

pull1D
Entries 90
Mean 0.006883
Std Dev 0.9965

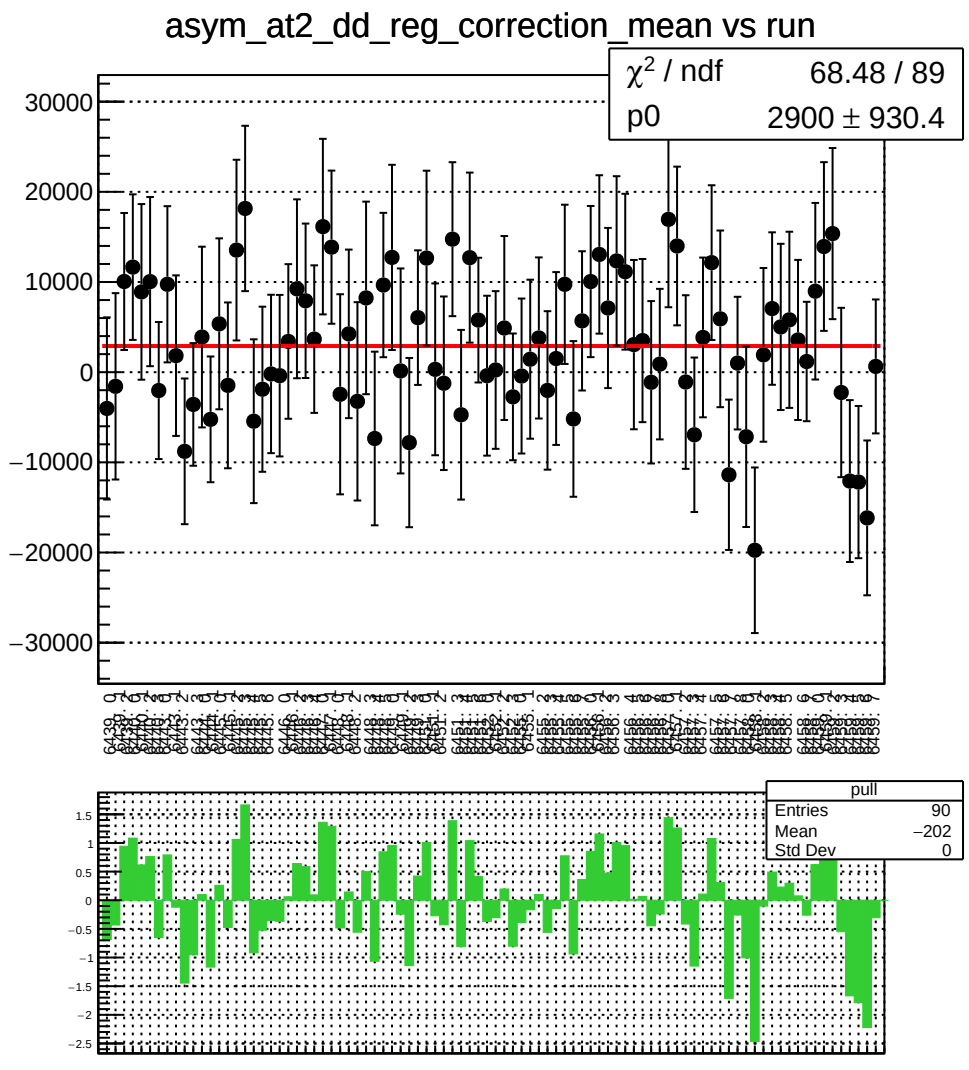

asym_at2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.848e+05 / 89
p0 1.009e−10 ± 9.218e−14
1
0.8
0.6
0.4
0.2

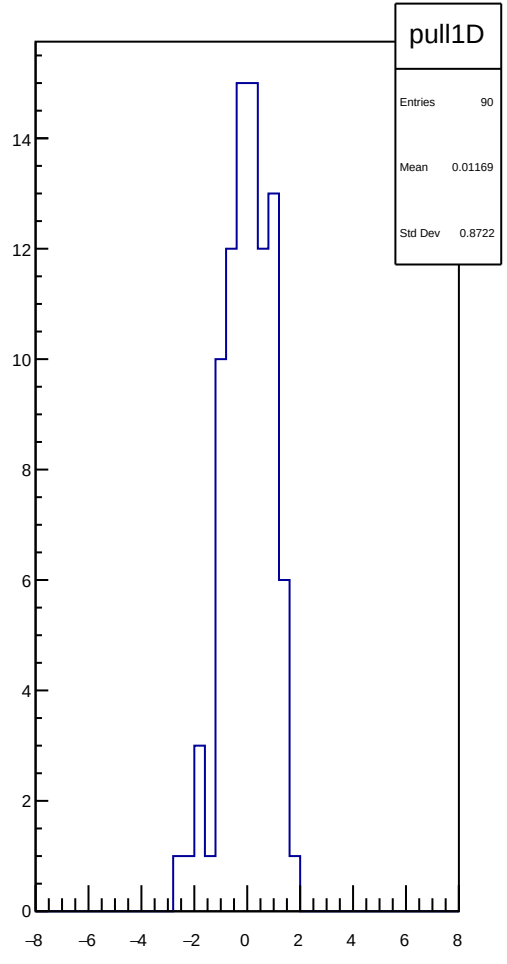

reg_asym_at2_dd_mean vs run
χ² / ndf 99.26 / 89
p0 1810 ± 1919
pull
Entries 90
Mean 1031
Std Dev 0

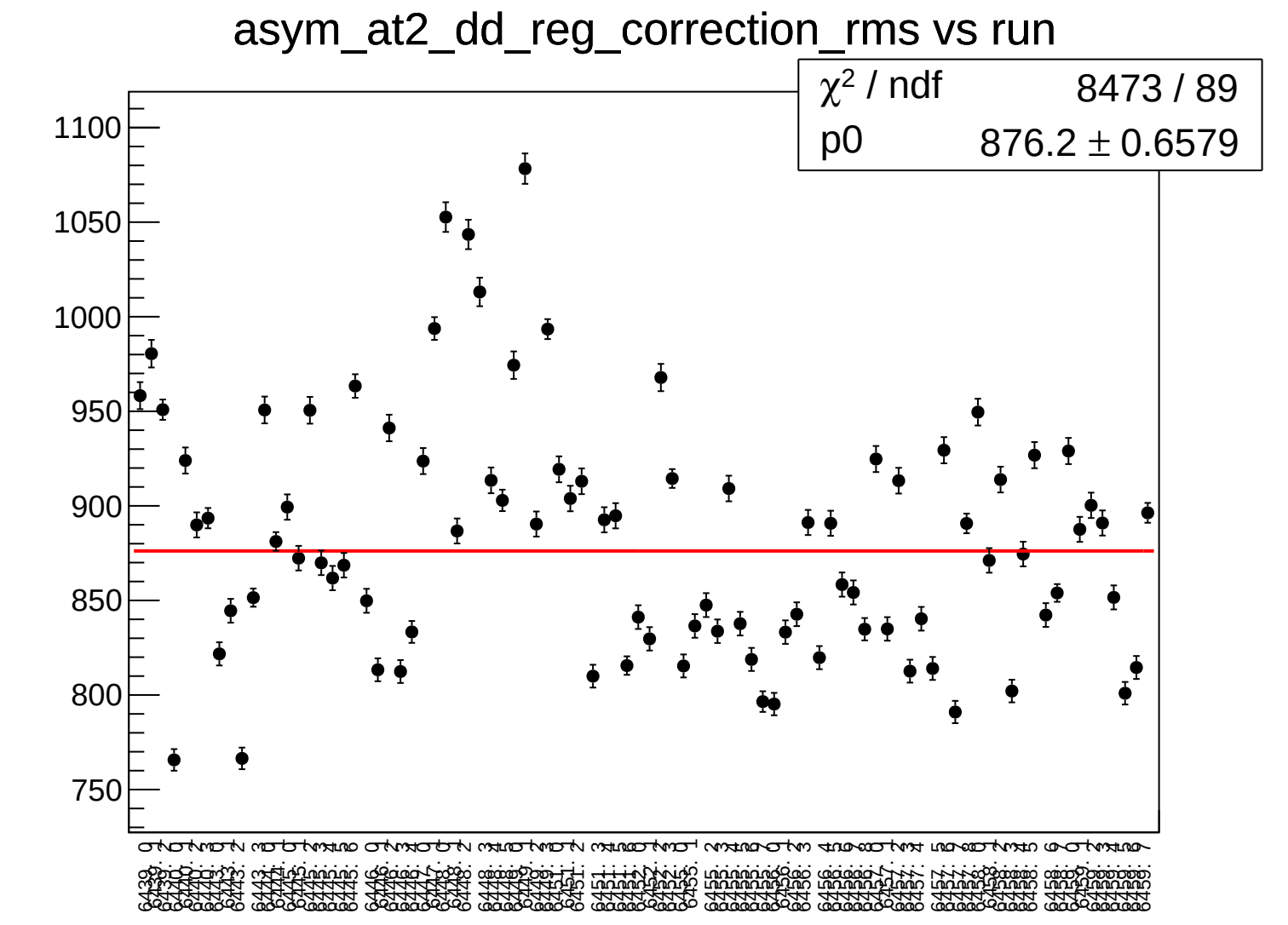

pull1D
Entries 90
Mean −0.003833
Std Dev 1.05

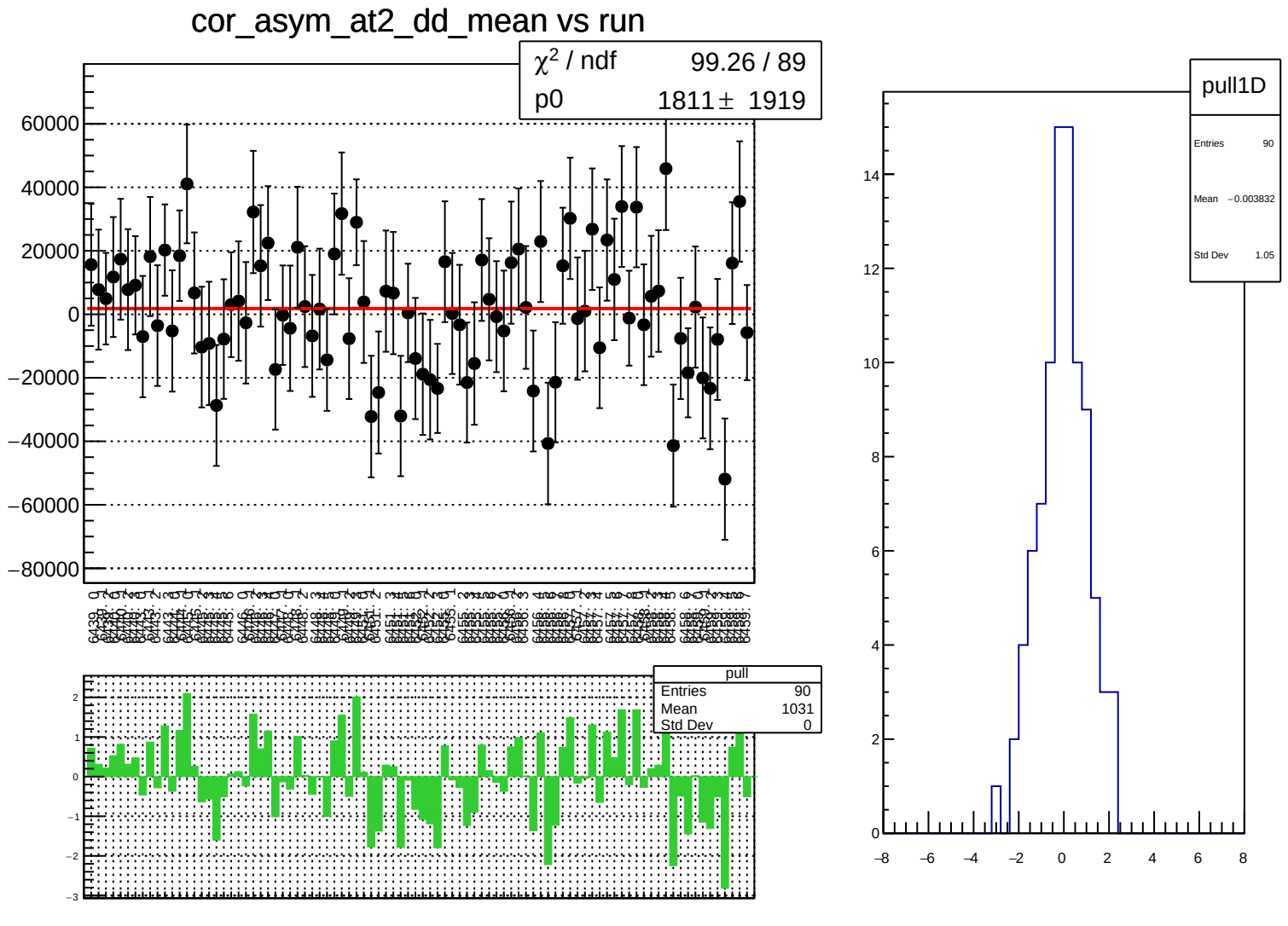
reg_asym_at2_dd_rms vs run

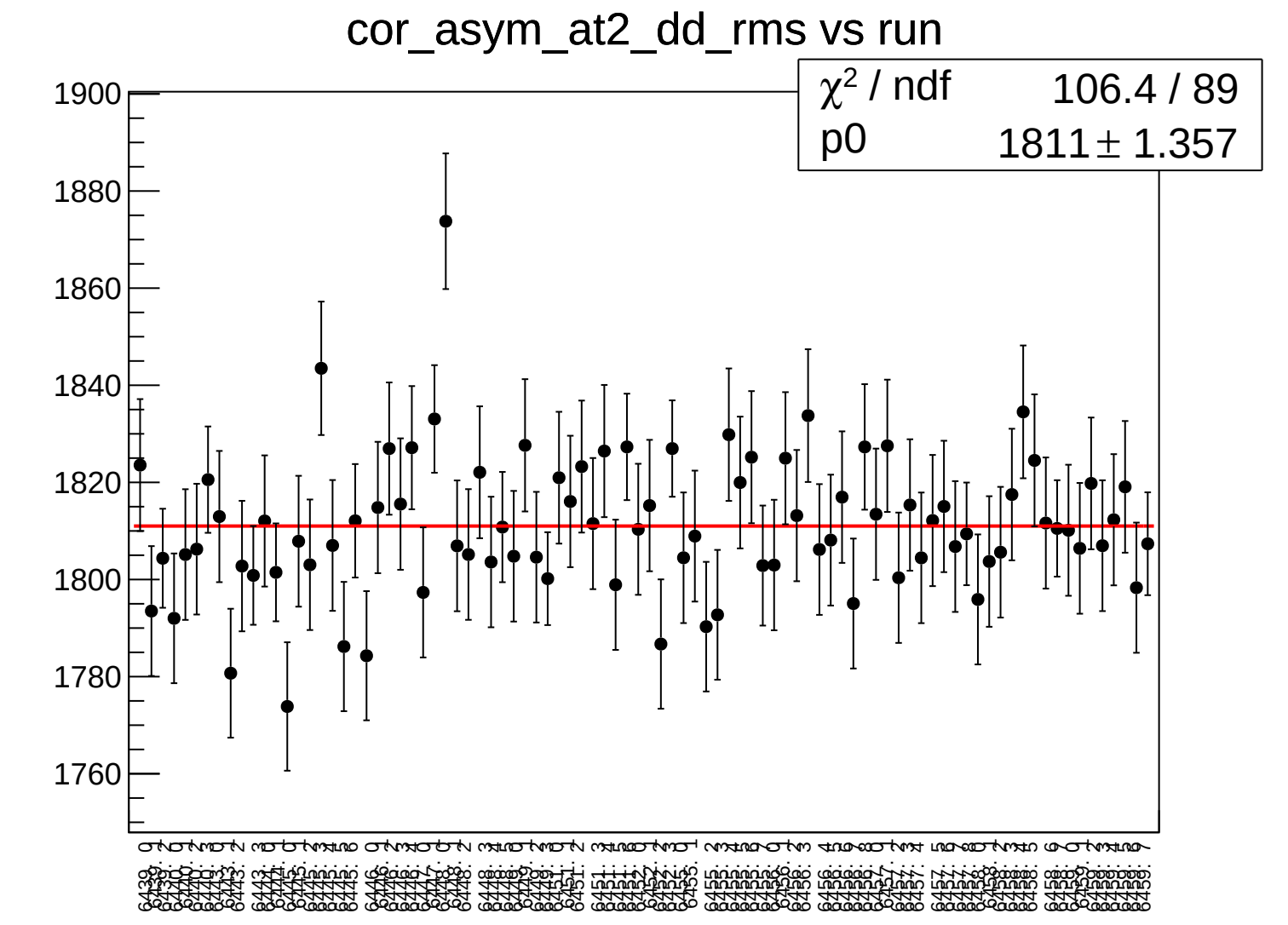


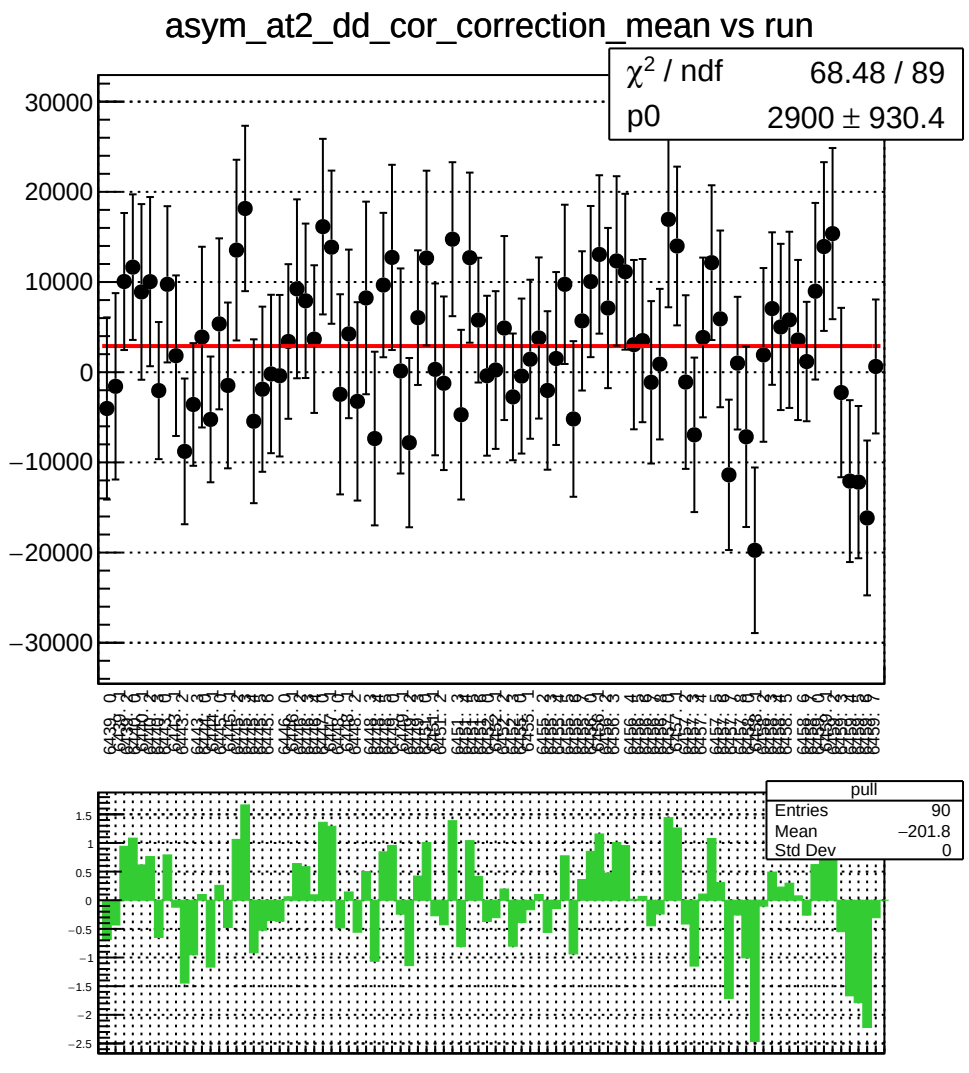

asym_at2_dd_reg_correction_mean vs run
χ² / ndf 68.48 / 89
p0 2900 ± 930.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean −202
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

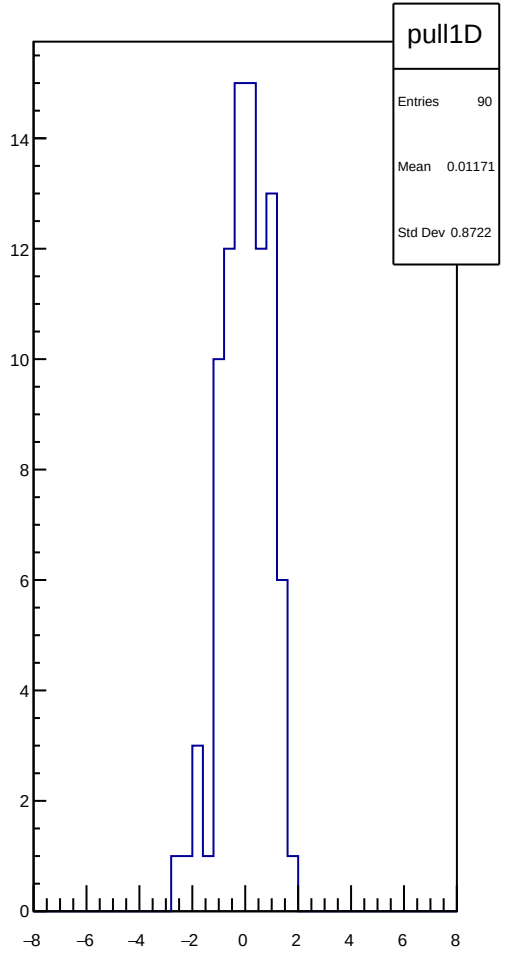

pull1D
Entries 90
Mean 0.01169
Std Dev 0.8722
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

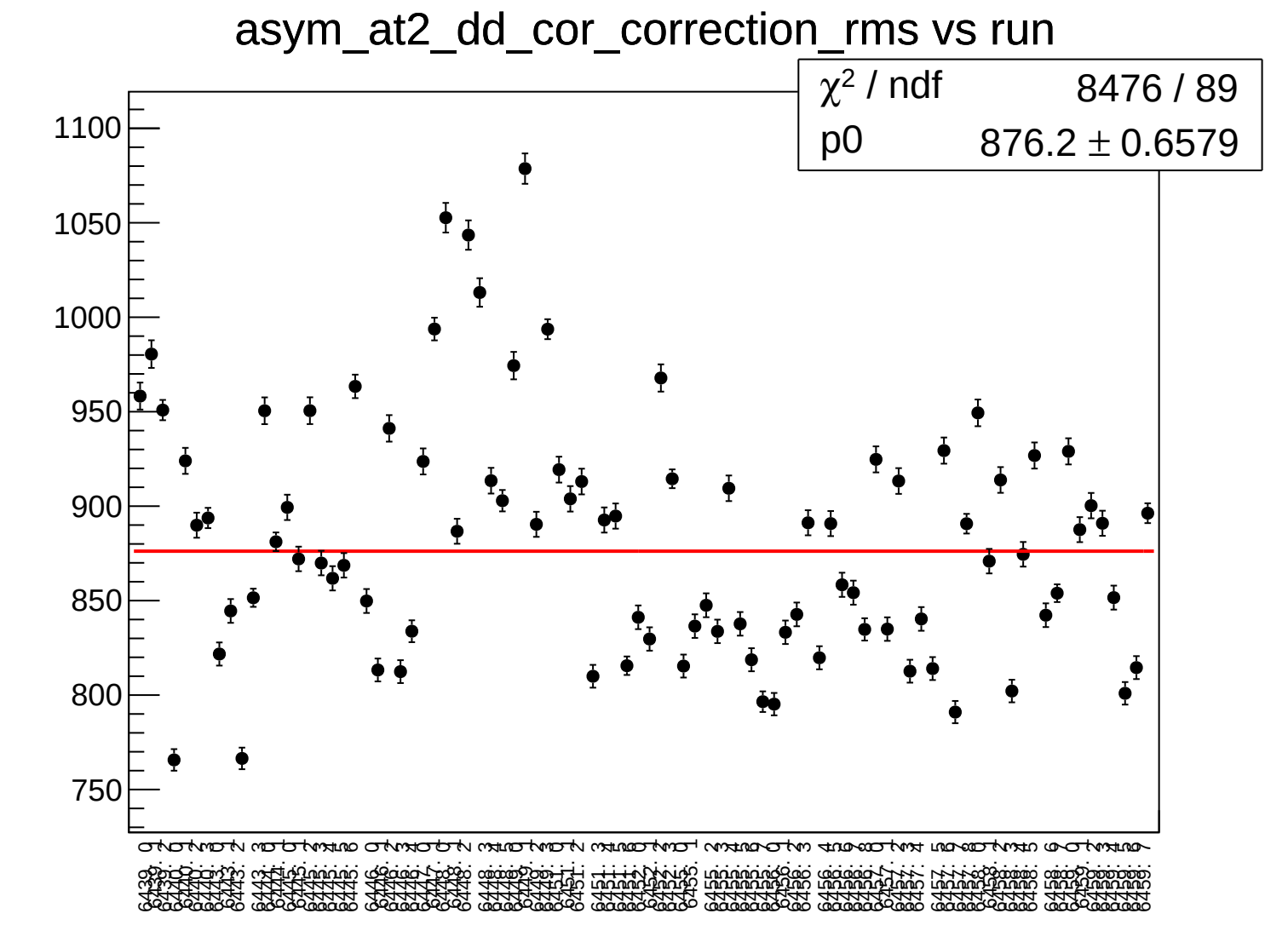

asym_at2_dd_reg_correction_rms vs run
χ² / ndf 8473 / 89
p0 876.2 ± 0.6579
1100
1050
1000
950
900
850
800
750

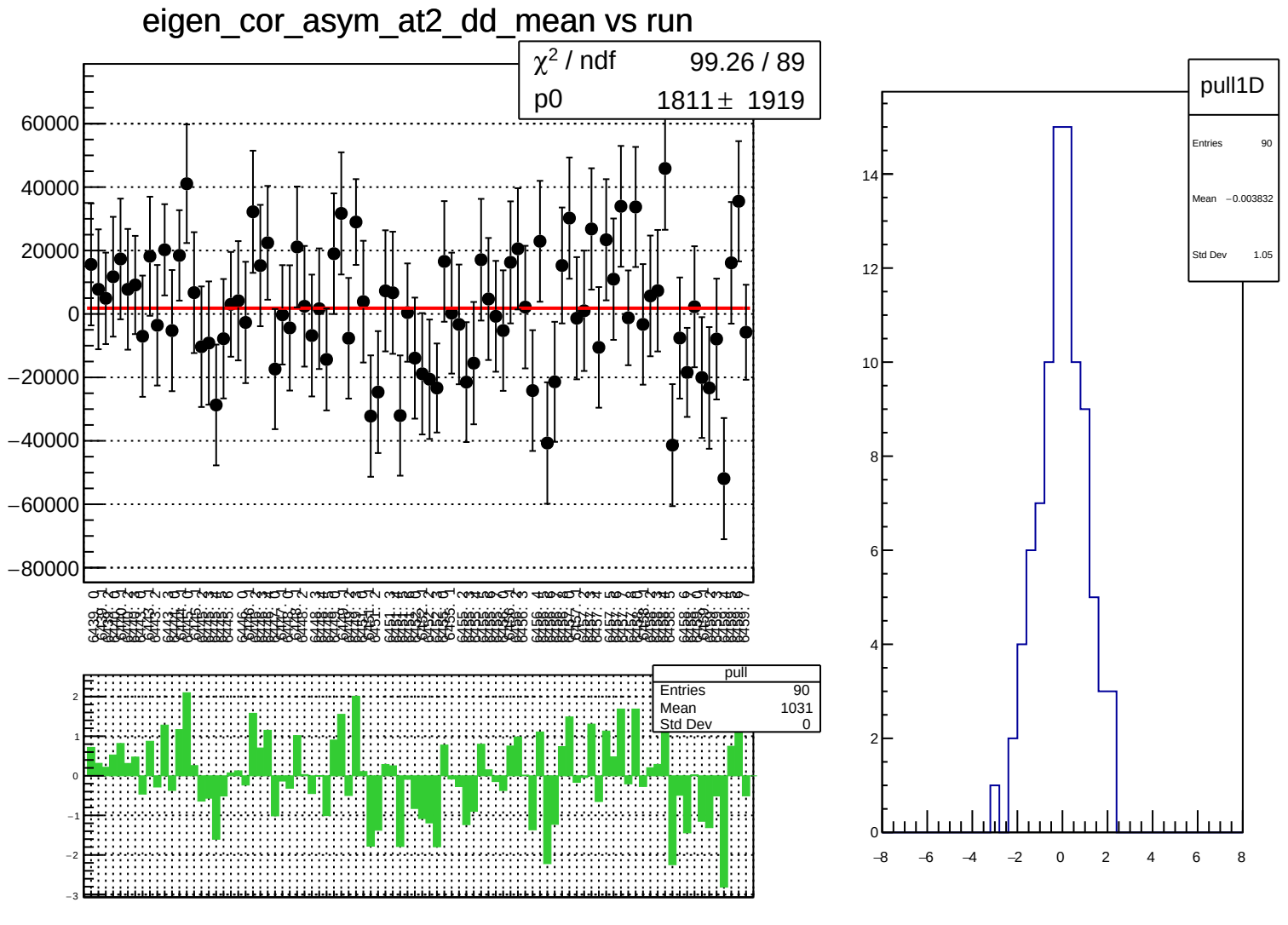

cor_asym_at2_dd_mean vs run
χ² / ndf 99.26 / 89
p0 1811 ± 1919
pull
Entries 90
Mean 1031
Std Dev 0
pull1D
Entries 90
Mean −0.003832
Std Dev 1.05

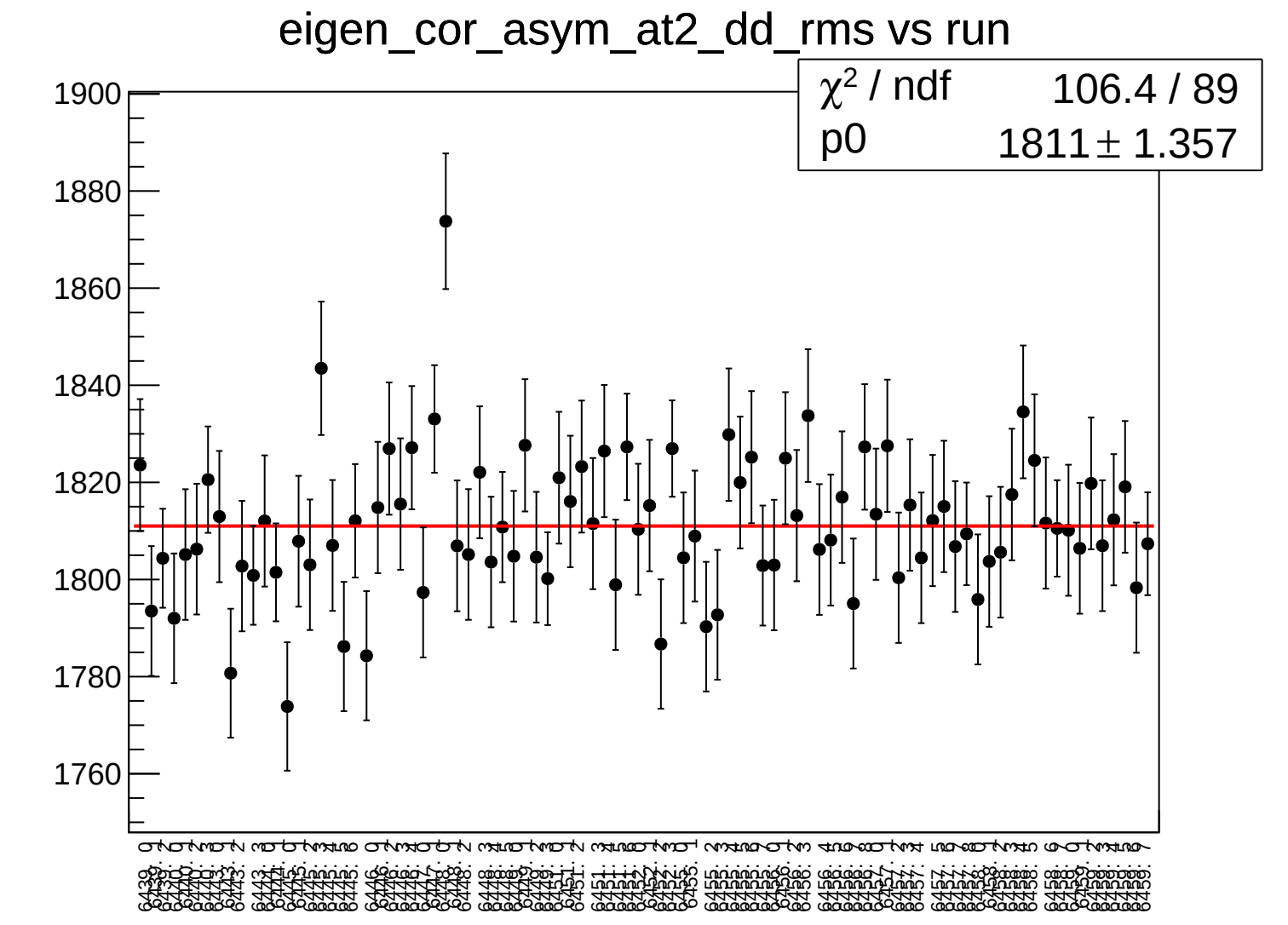

cor_asym_at2_dd_rms vs run
χ² / ndf 106.4 / 89
p0 1811 ± 1.357
1900
1880
1860
1840
1820
1800
1780
1760

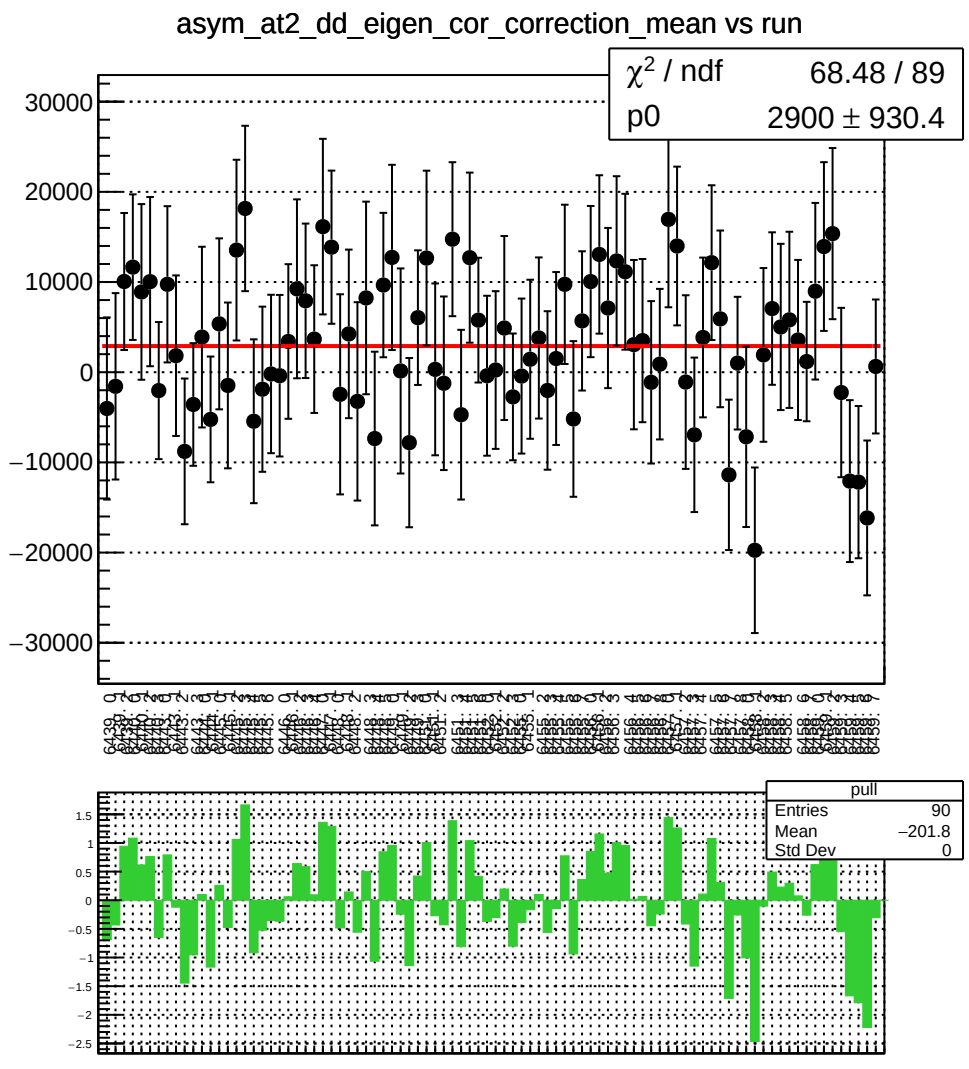

asym_at2_dd_cor_correction_mean vs run
χ² / ndf 68.48 / 89
p0 2900 ± 930.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean −201.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

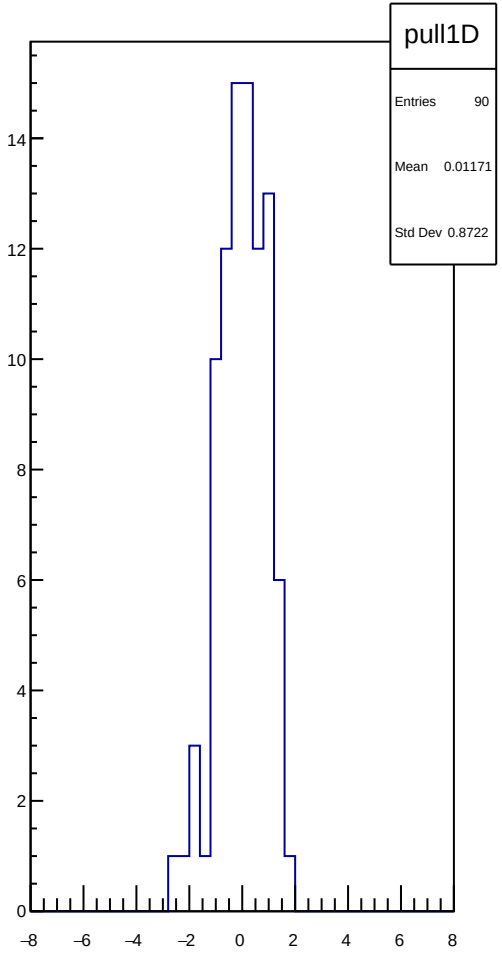

pull1D
Entries 90
Mean 0.01171
Std Dev 0.8722
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

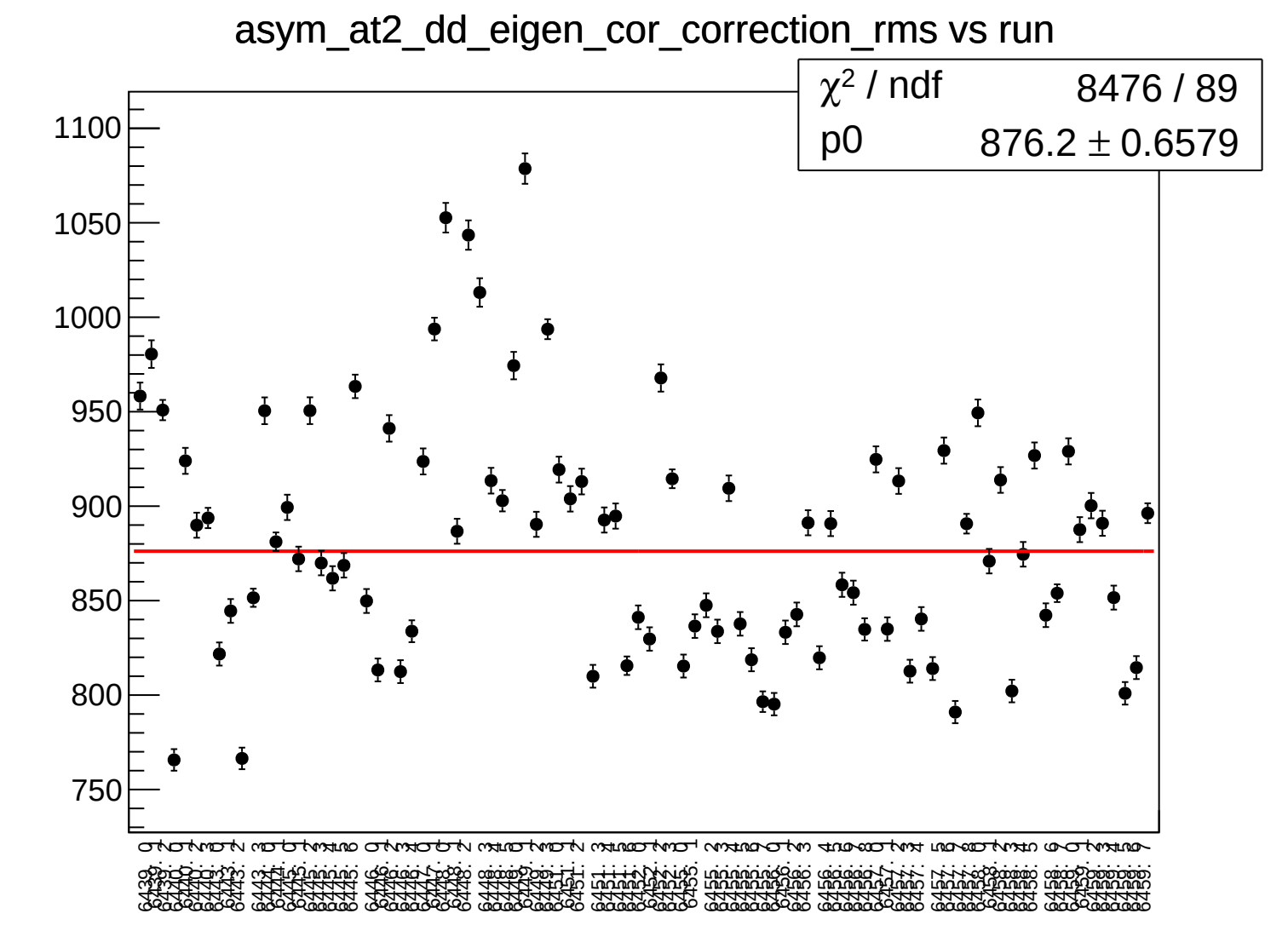

asym_at2_dd_cor_correction_rms vs run
χ² / ndf 8476 / 89
p0 876.2 ± 0.6579
1100
1050
1000
950
900
850
800
750

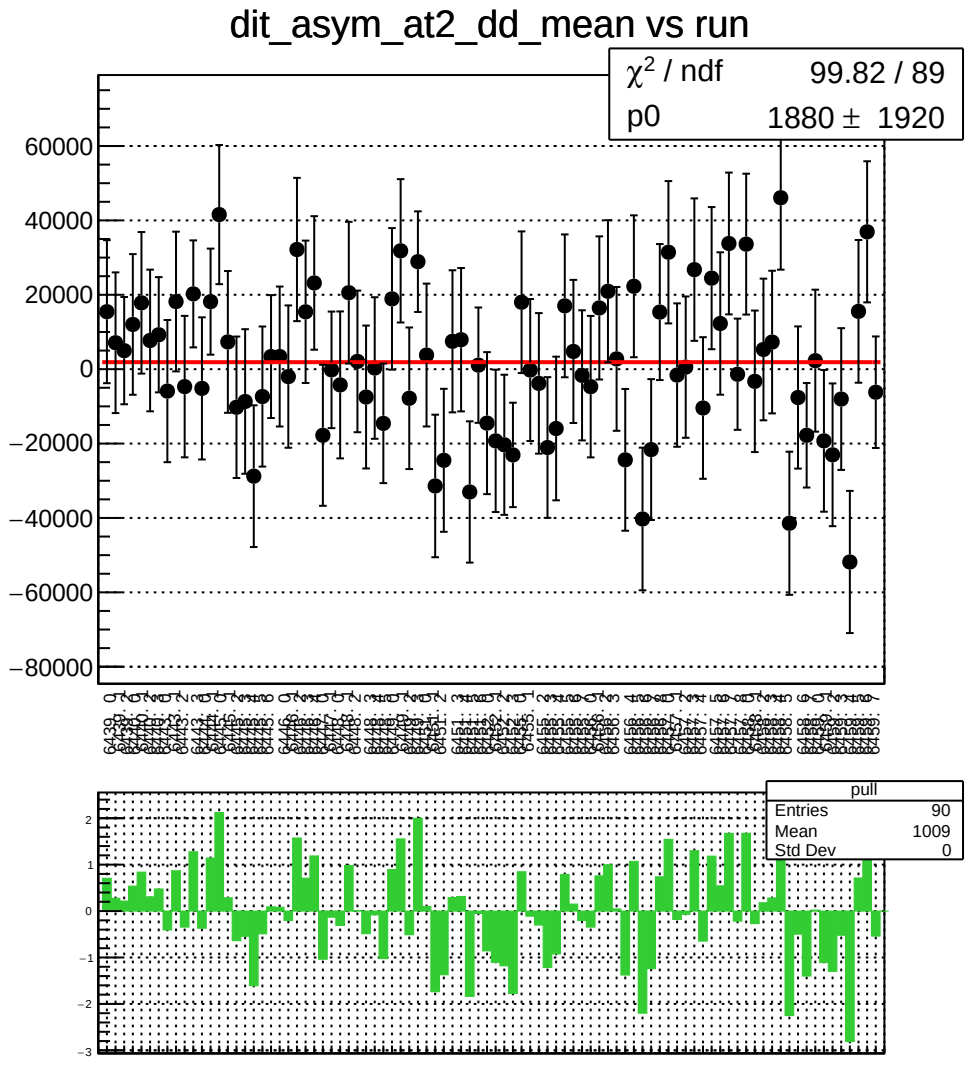

eigen_cor_asym_at2_dd_mean vs run
χ² / ndf 99.26 / 89
p0 1811 ± 1919
pull
Entries 90
Mean 1031
Std Dev 0
pull1D
Entries 90
Mean −0.003832
Std Dev 1.05

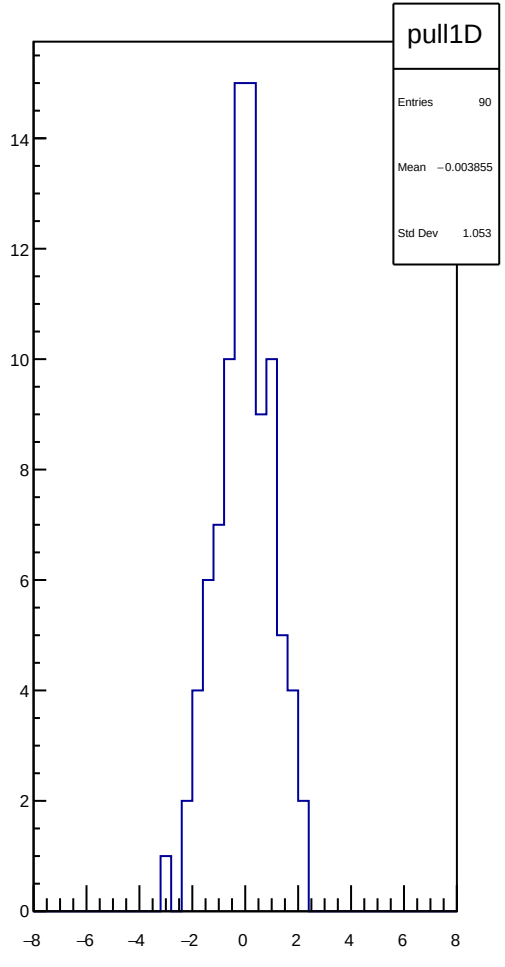

eigen_cor_asym_at2_dd_rms vs run
χ² / ndf 106.4 / 89
p0 1811 ± 1.357
1900
1880
1860
1840
1820
1800
1780
1760

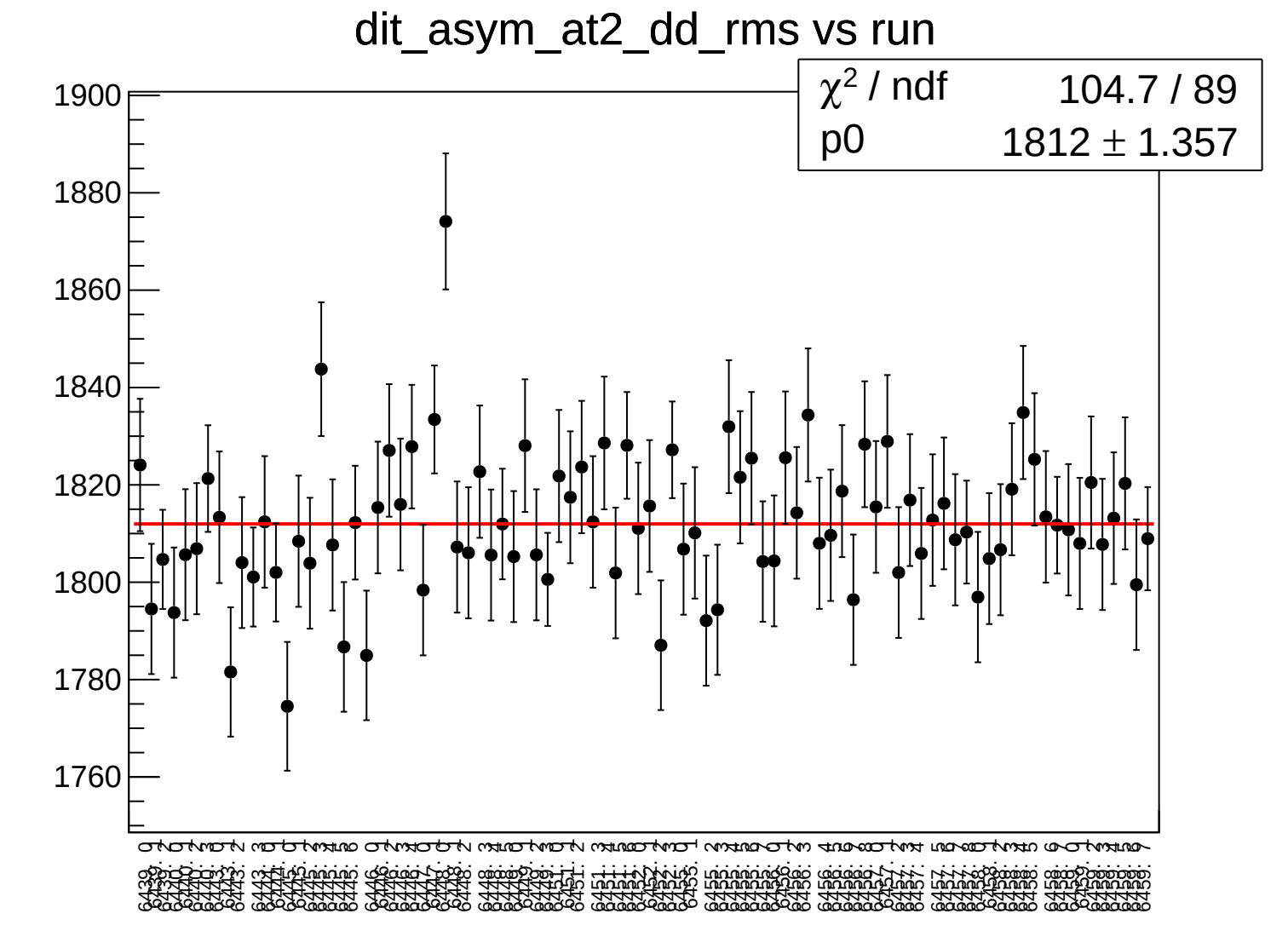

asym_at2_dd_eigen_cor_correction_mean vs run
χ² / ndf 68.48 / 89
p0 2900 ± 930.4
pull
Entries 90
Mean −201.8
Std Dev 0

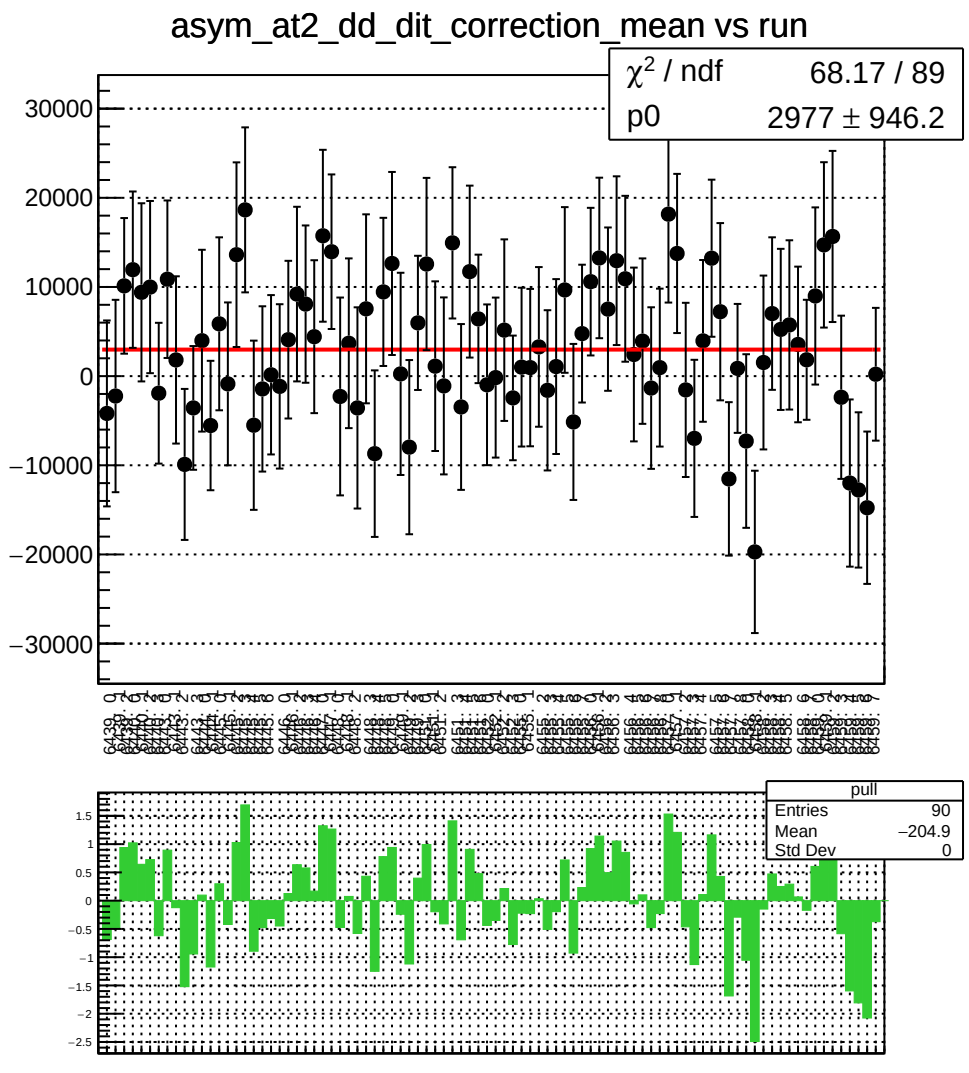

pull1D
Entries 90
Mean 0.01171
Std Dev 0.8722

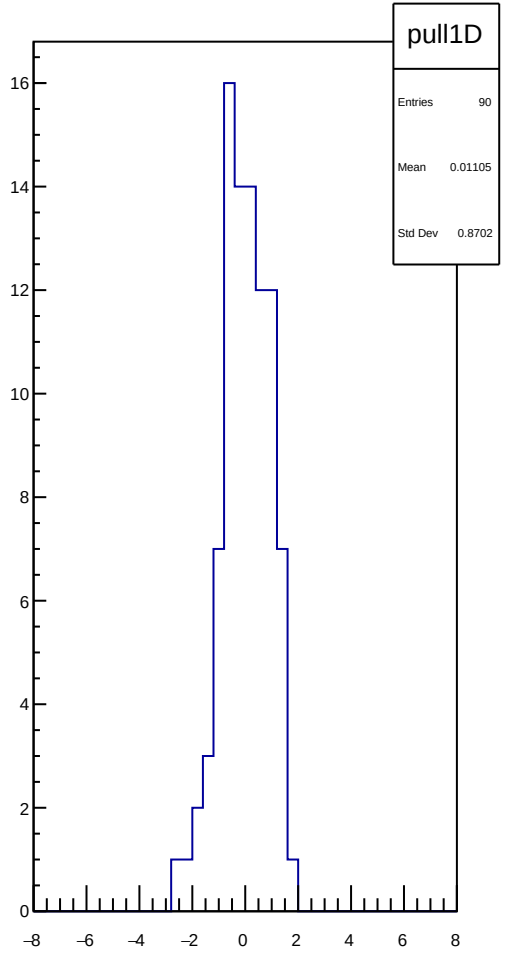

asym_at2_dd_eigen_cor_correction_rms vs run
χ² / ndf 8476 / 89
p0 876.2 ± 0.6579
1100
1050
1000
950
900
850
800
750

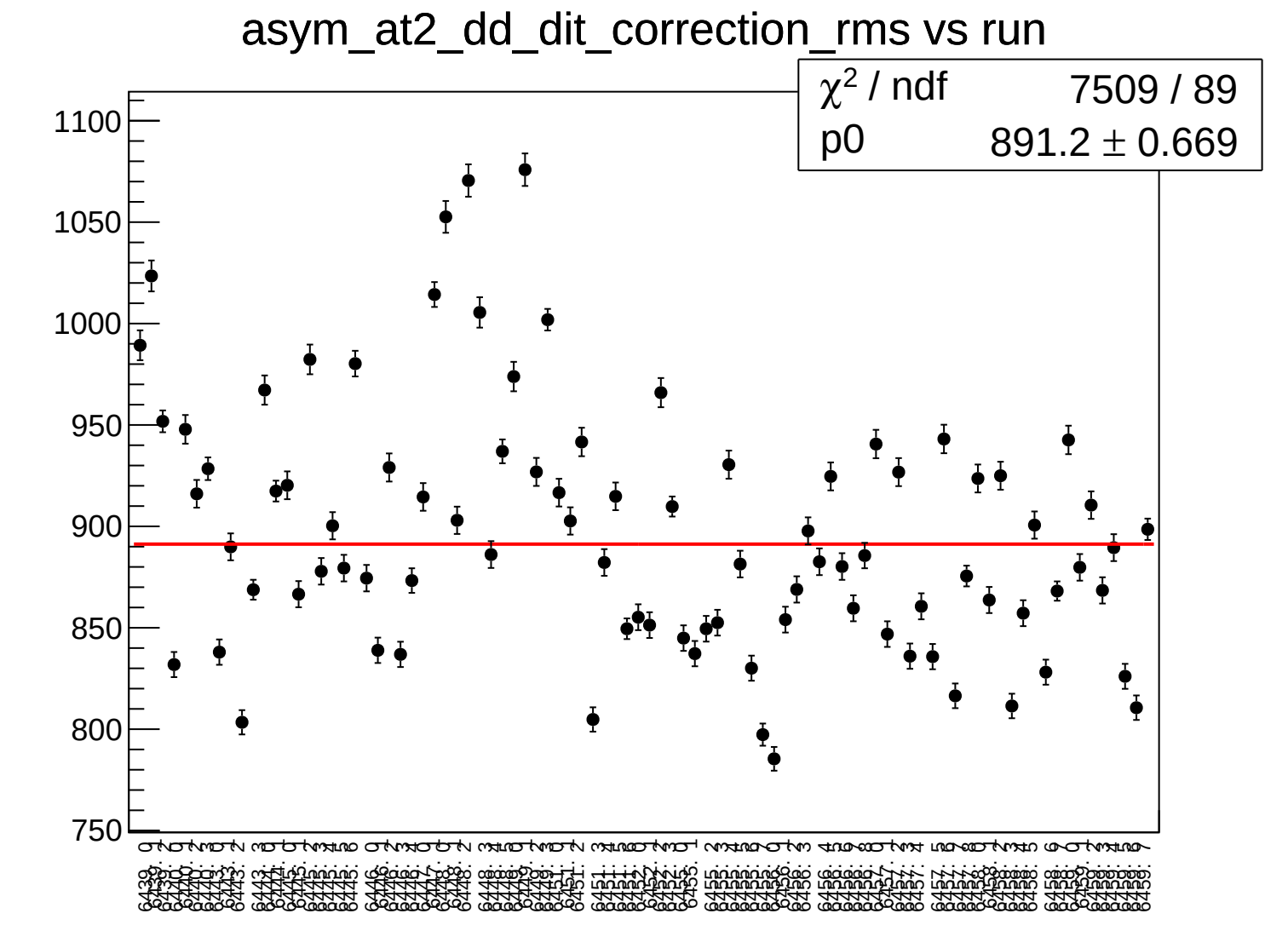

dit_asym_at2_dd_mean vs run
χ² / ndf 99.82 / 89
p0 1880 ± 1920
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 90
Mean 1009
Std Dev 0
2
1
0
−1
−2
−3

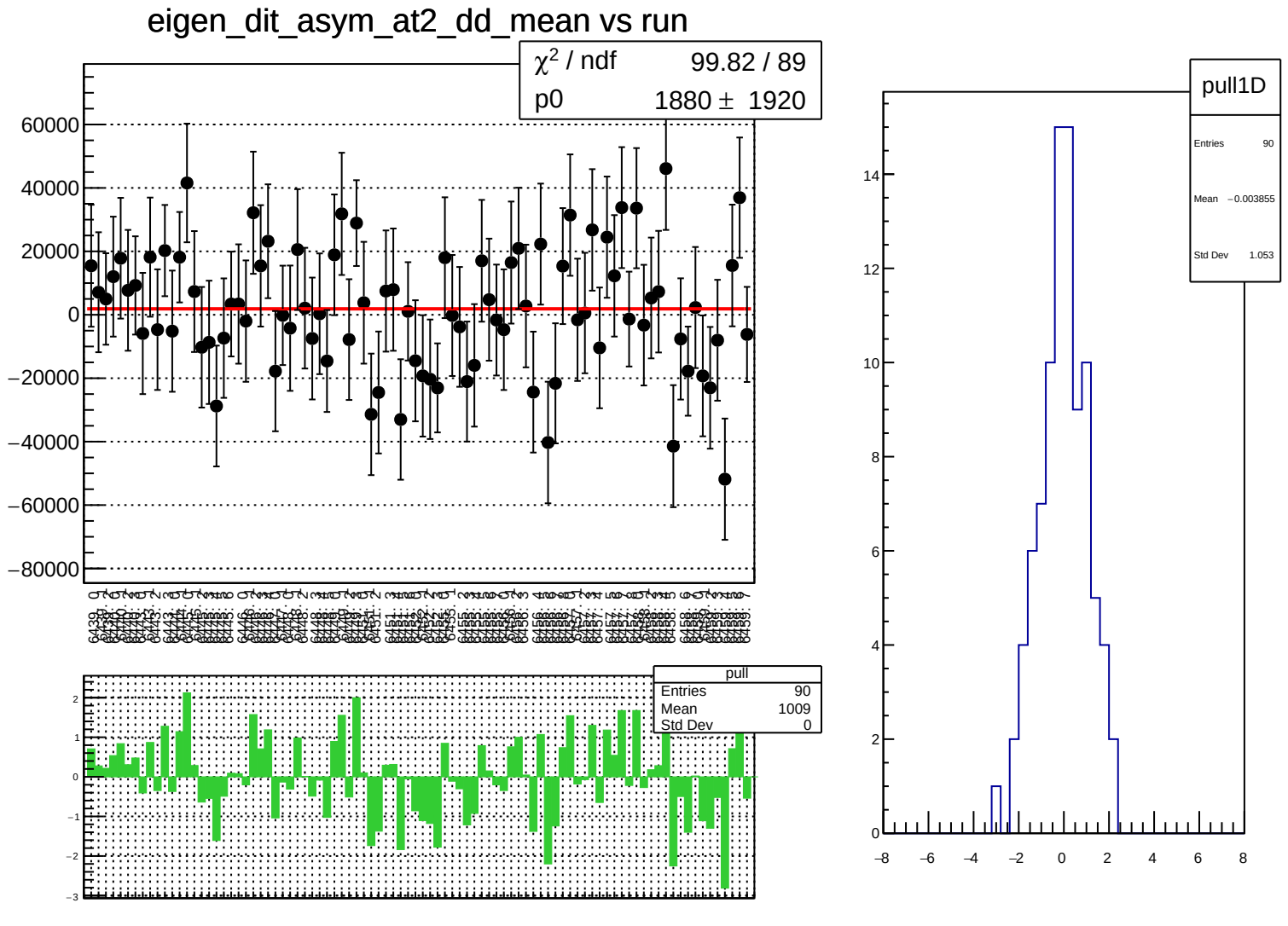

pull1D
Entries 90
Mean −0.003855
Std Dev 1.053
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

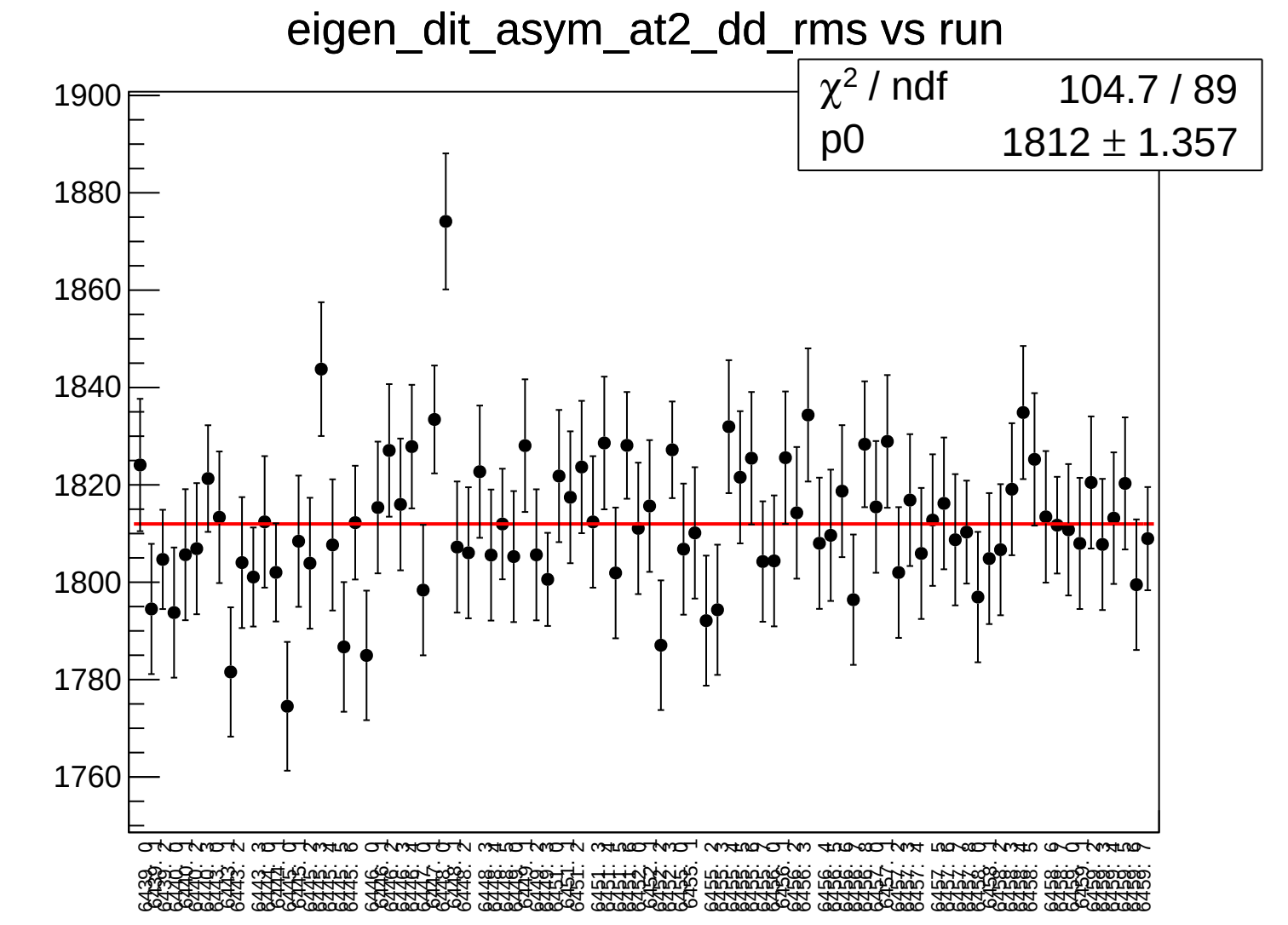

dit_asym_at2_dd_rms vs run
χ² / ndf 104.7 / 89
p0 1812 ± 1.357
1900
1880
1860
1840
1820
1800
1780
1760

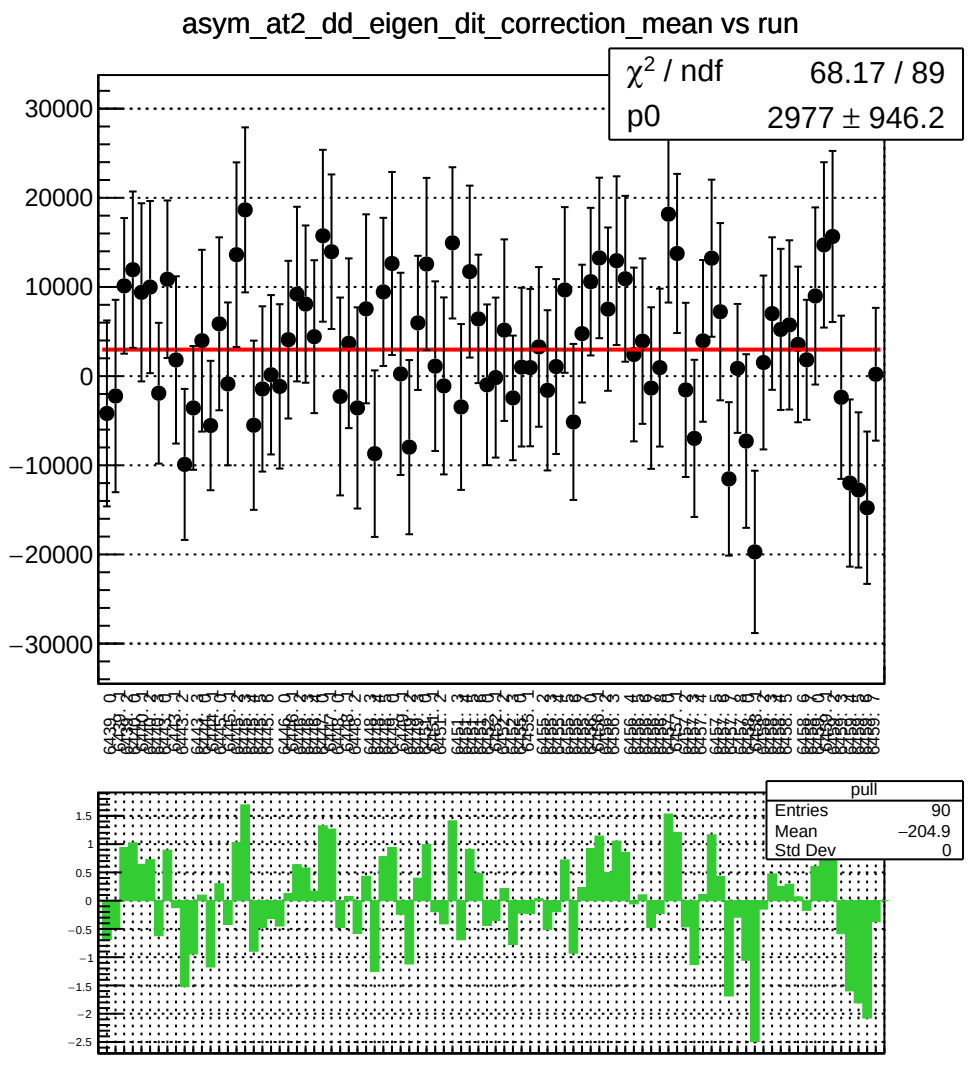

asym_at2_dd_dit_correction_mean vs run
χ² / ndf 68.17 / 89
p0 2977 ± 946.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean −204.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

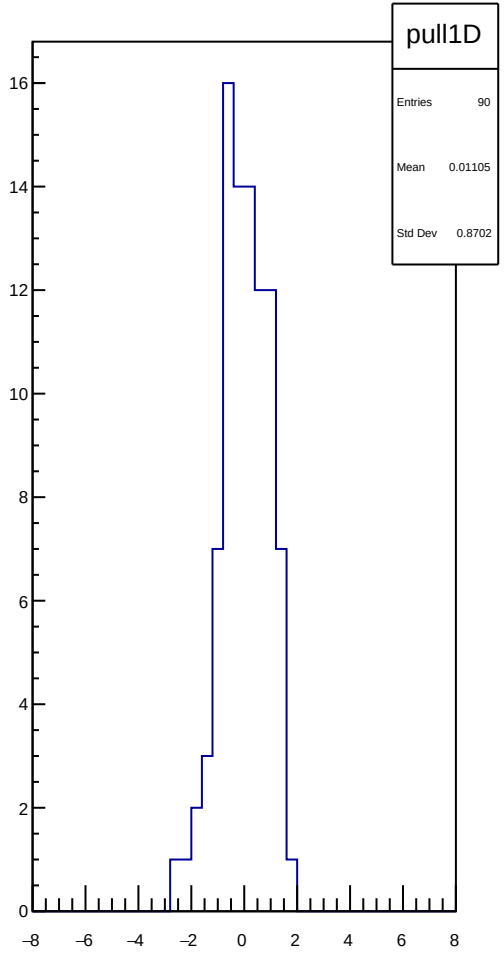

pull1D
Entries 90
Mean 0.01105
Std Dev 0.8702
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

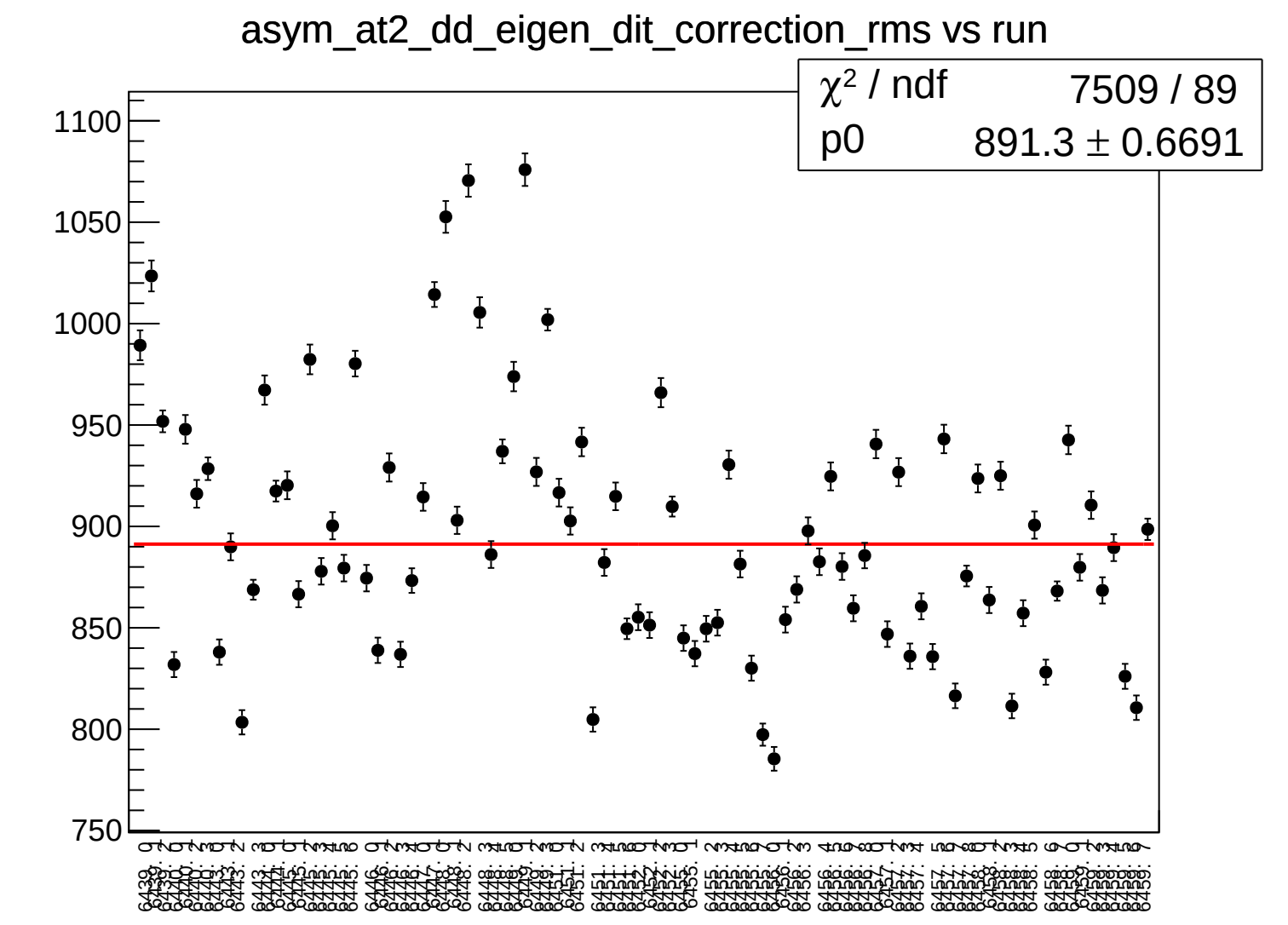

asym_at2_dd_dit_correction_rms vs run
χ² / ndf 7509 / 89
p0 891.2 ± 0.669
1100
1050
1000
950
900
850
800
750

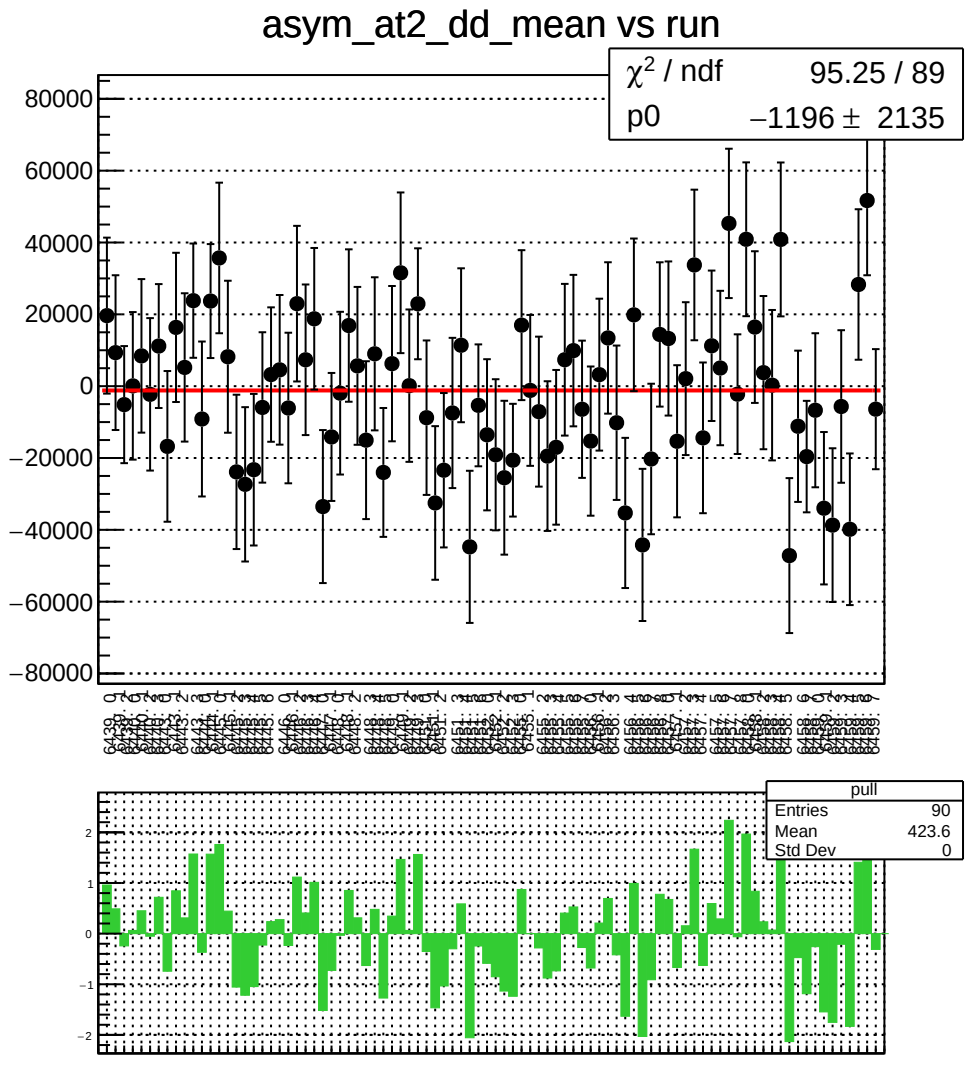

eigen_dit_asym_at2_dd_mean vs run
χ² / ndf 99.82 / 89
p0 1880 ± 1920
pull
Entries 90
Mean 1009
Std Dev 0
pull1D
Entries 90
Mean −0.003855
Std Dev 1.053

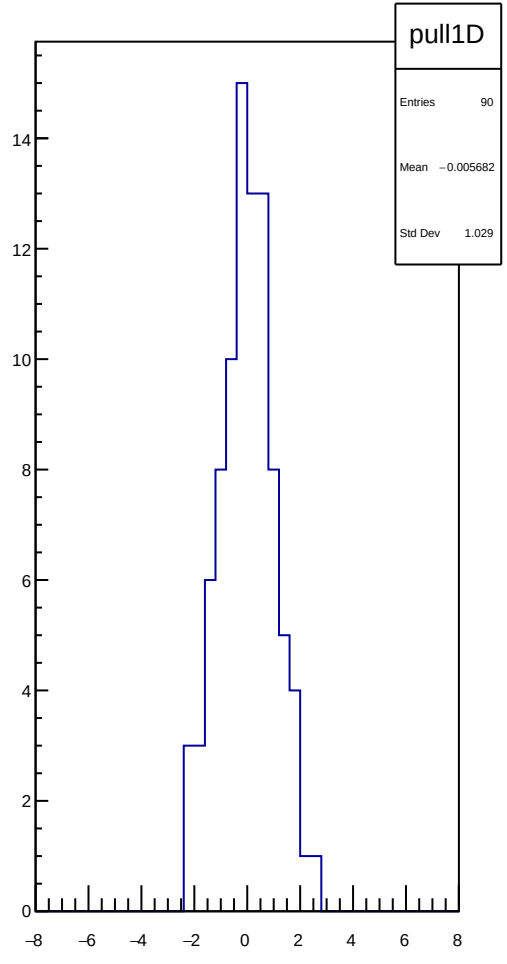

eigen_dit_asym_at2_dd_rms vs run
χ² / ndf 104.7 / 89
p0 1812 ± 1.357
1900
1880
1860
1840
1820
1800
1780
1760

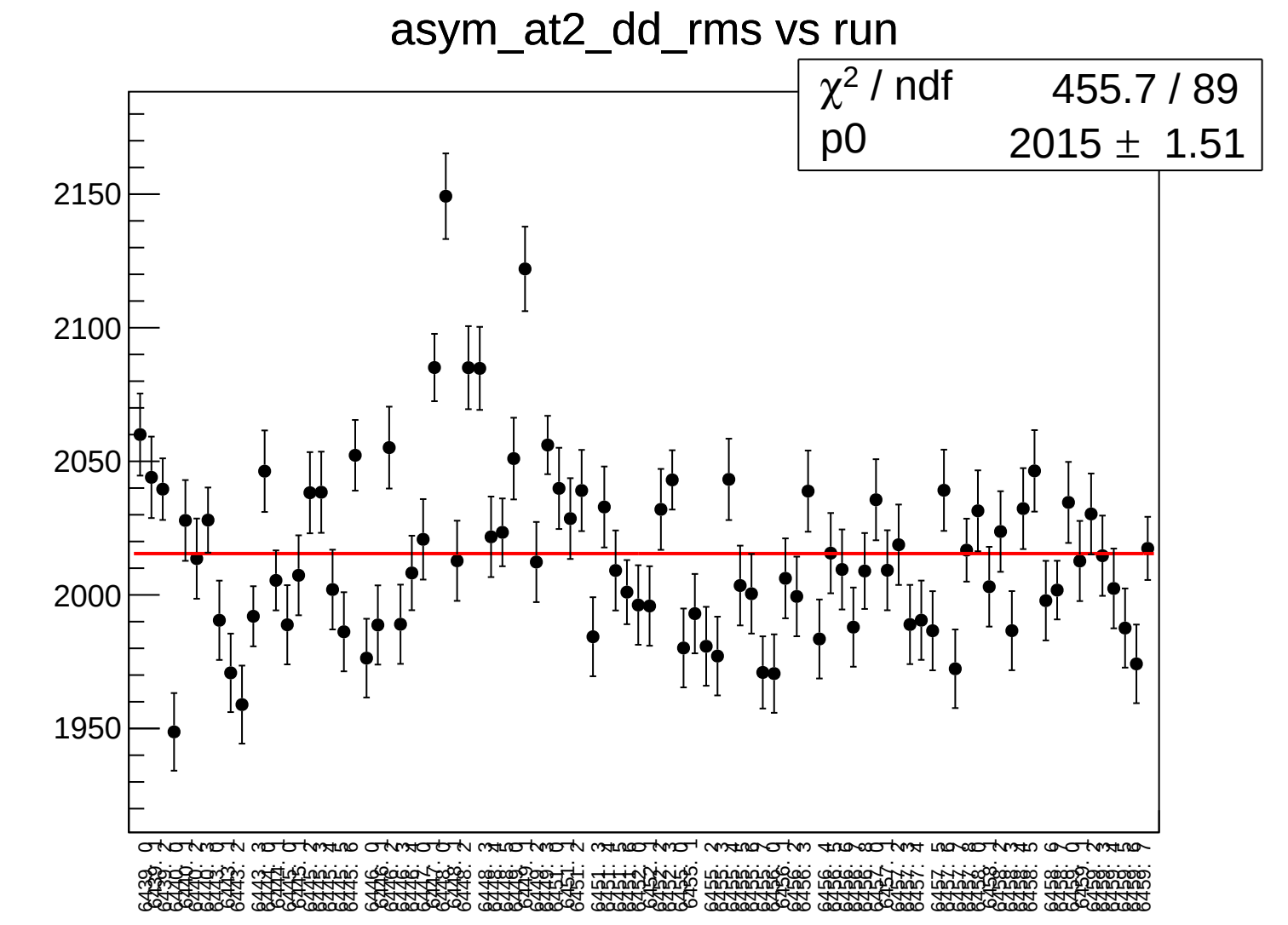

asym_at2_dd_eigen_dit_correction_mean vs run
χ² / ndf 68.17 / 89
p0 2977 ± 946.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean −204.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

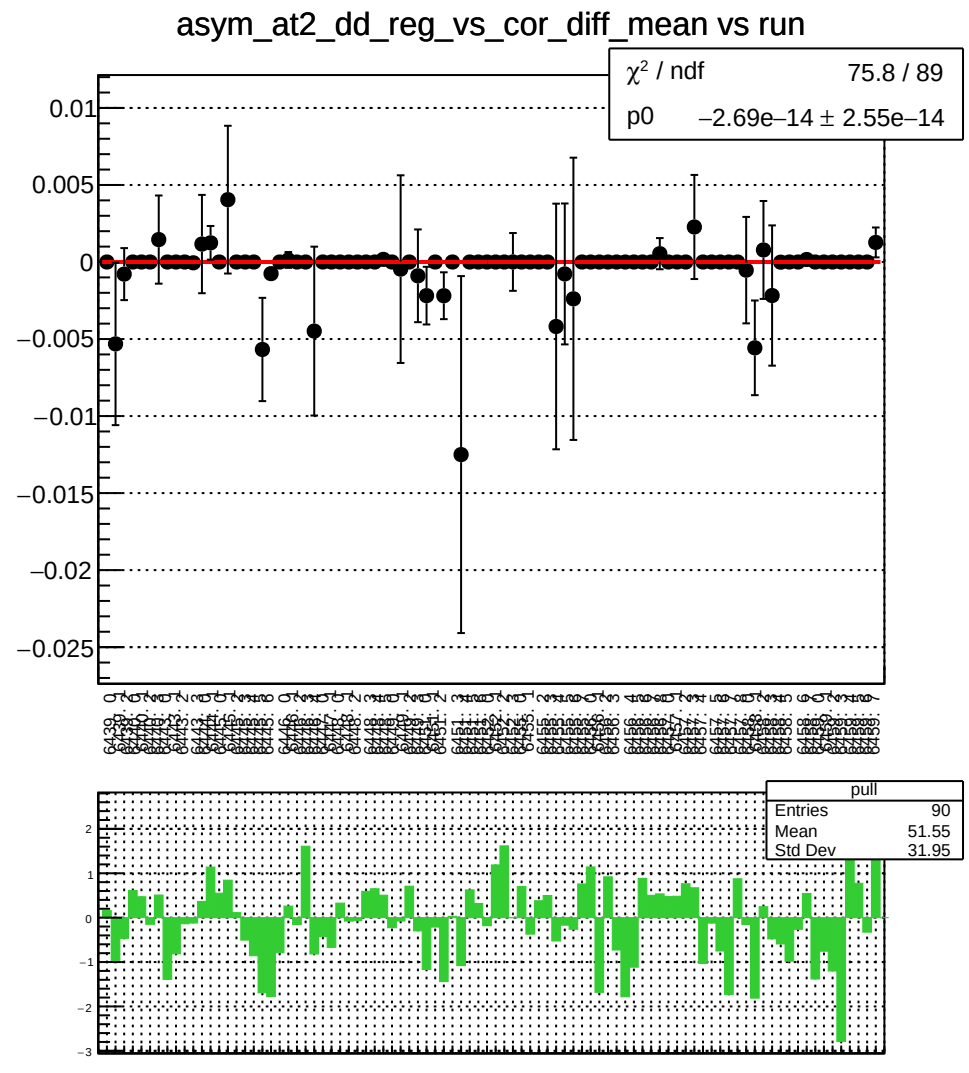

pull1D
Entries 90
Mean 0.01105
Std Dev 0.8702
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

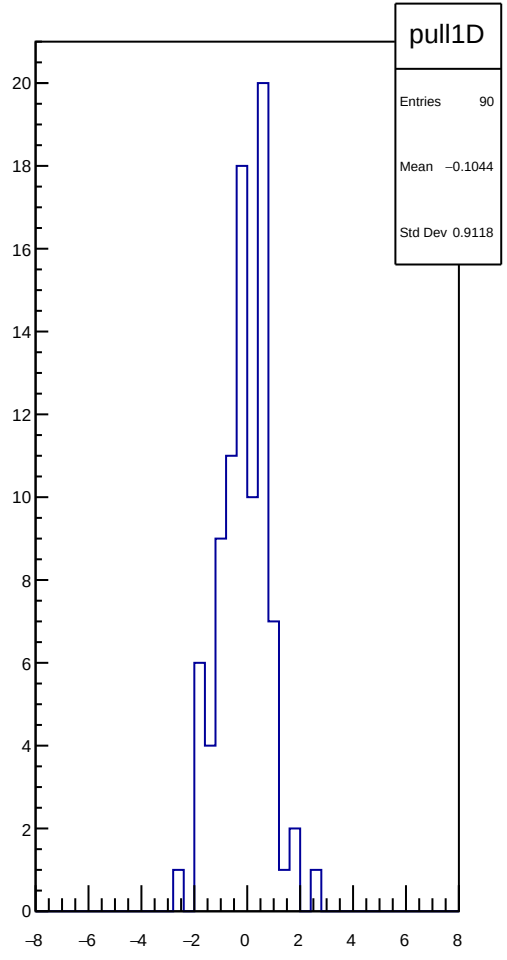

asym_at2_dd_eigen_dit_correction_rms vs run
χ² / ndf 7509 / 89
p0 891.3 ± 0.6691
1100
1050
1000
950
900
850
800
750

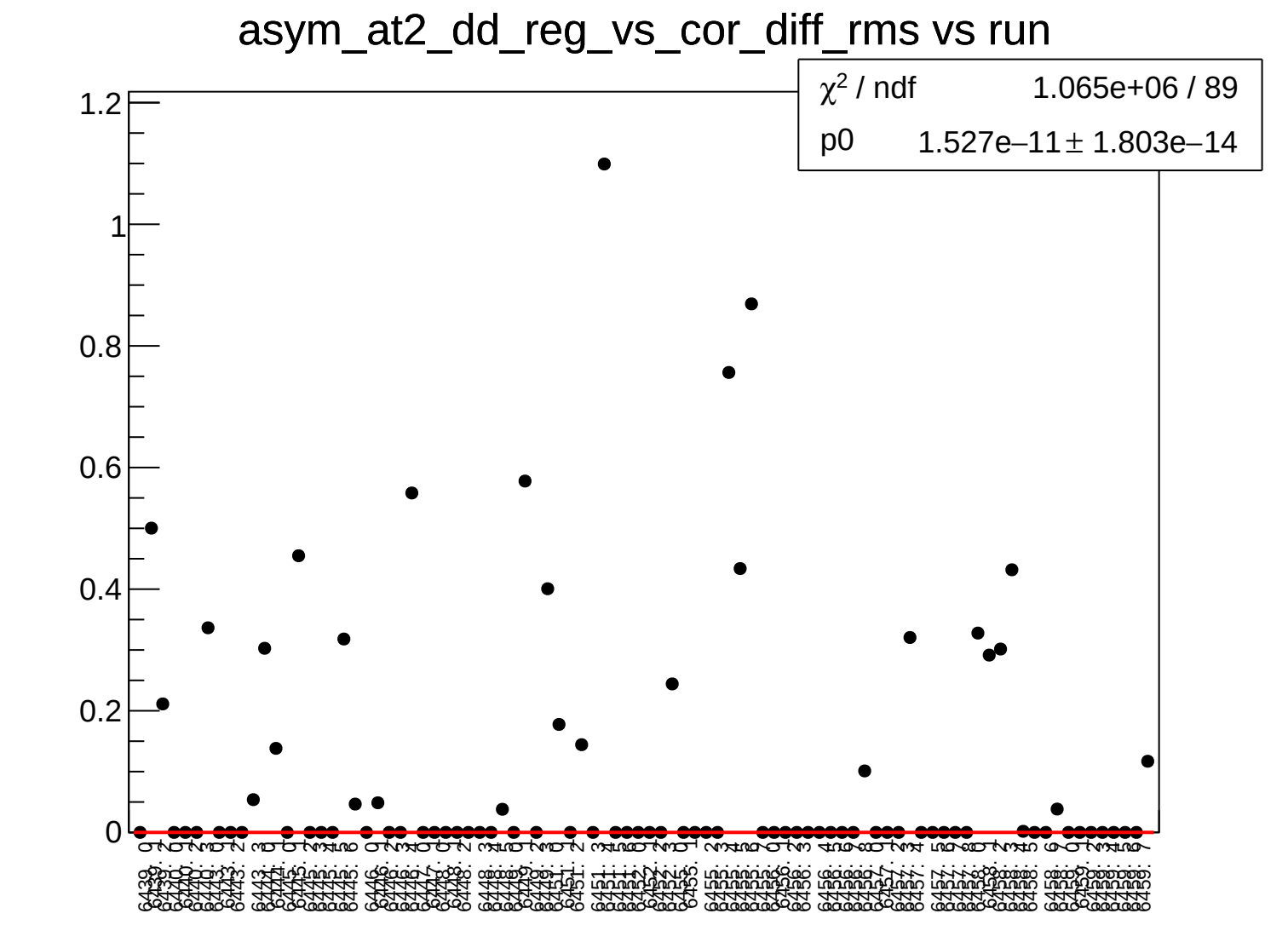

asym_at2_dd_mean vs run
χ² / ndf 95.25 / 89
p0 −1196 ± 2135
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 90
Mean 423.6
Std Dev 0
2
1
0
−1
−2

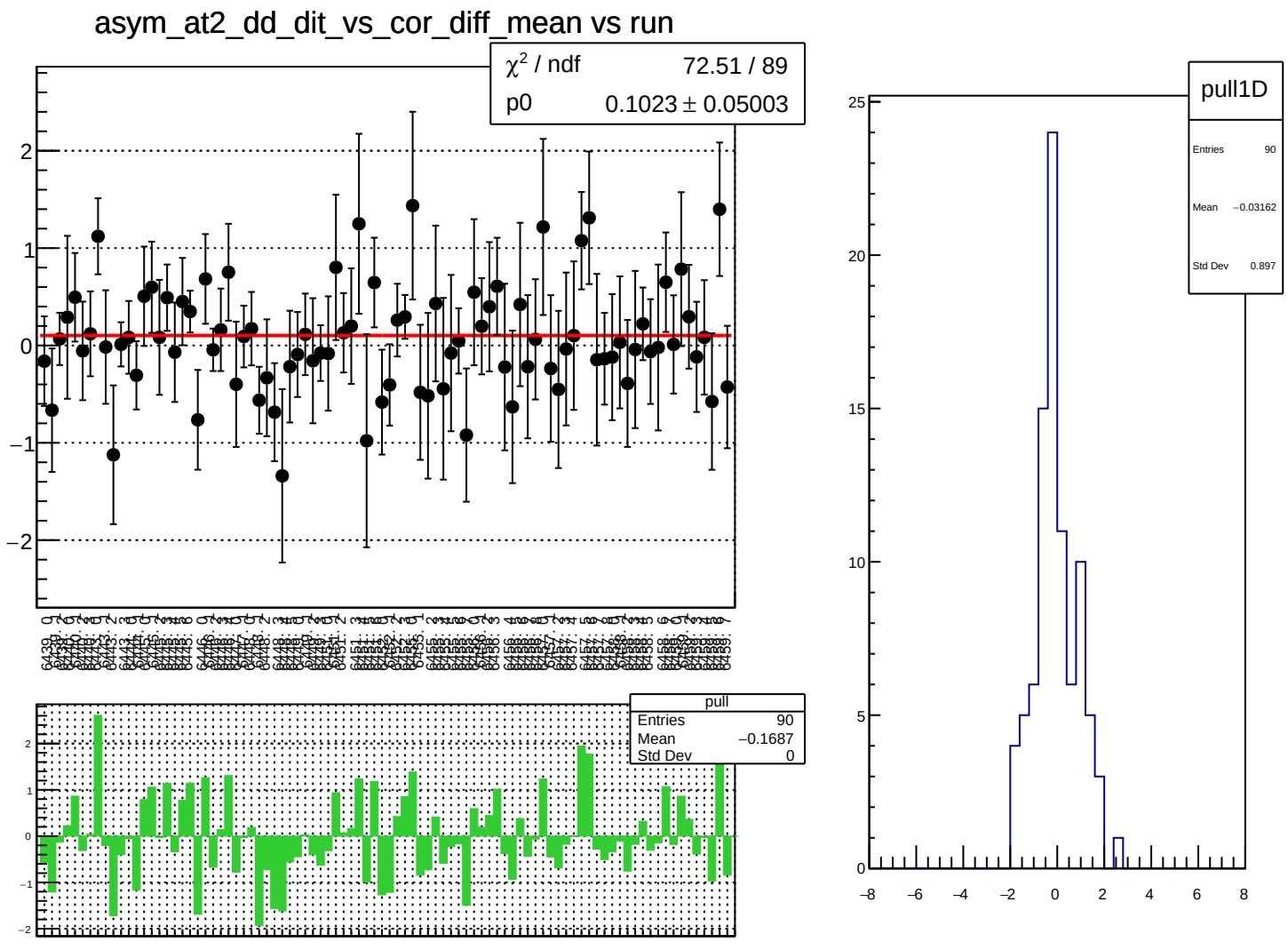

pull1D
Entries 90
Mean −0.005682
Std Dev 1.029
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

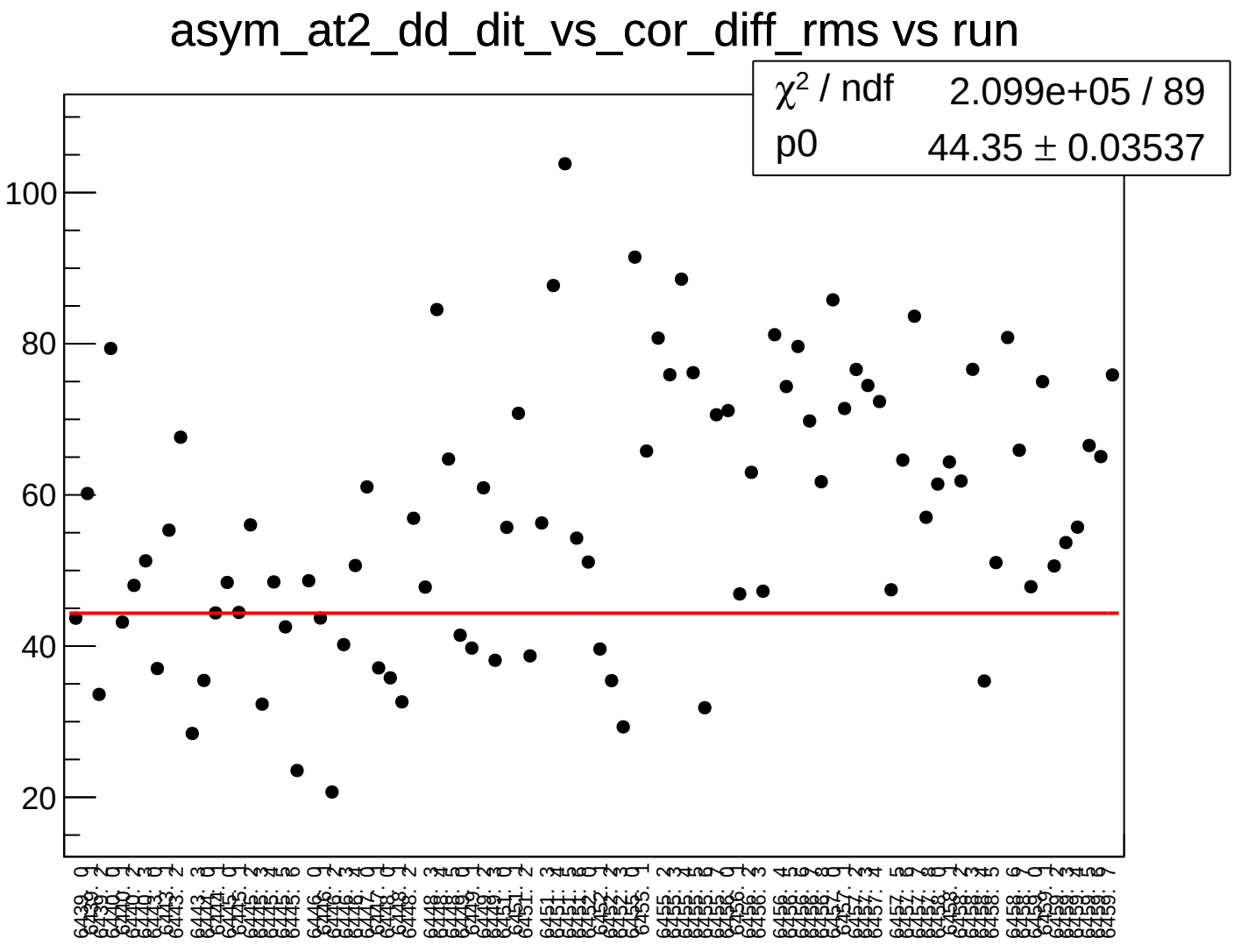

asym_at2_dd_rms vs run
χ² / ndf 455.7 / 89
p0 2015 ± 1.51
2150
2100
2050
2000
1950

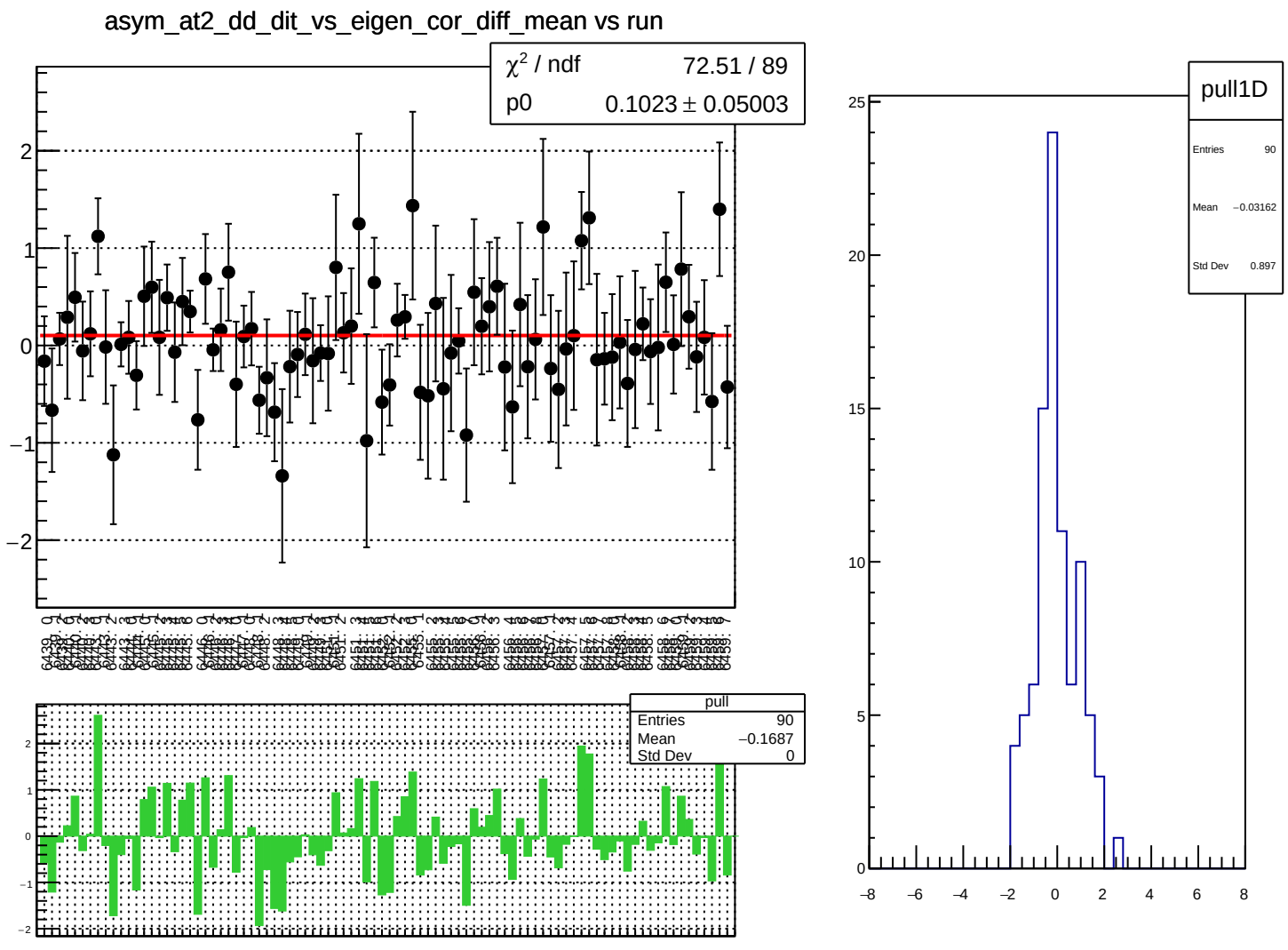

asym_at2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 75.8 / 89
p0 −2.69e−14 ± 2.55e−14
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
−0.025
pull
Entries 90
Mean 51.55
Std Dev 31.95
2
1
0
−1
−2
−3

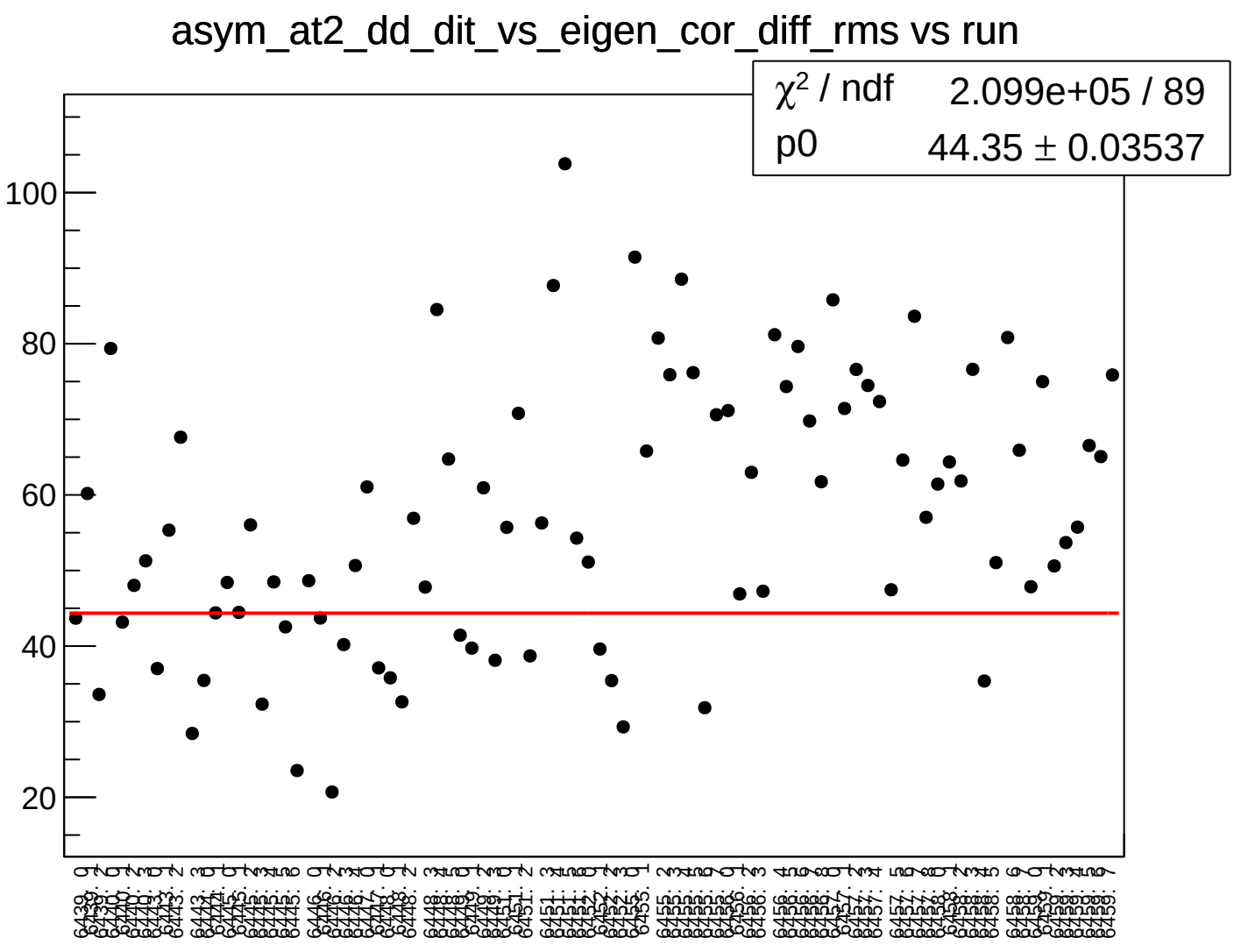

pull1D
Entries 90
Mean −0.1044
Std Dev 0.9118
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

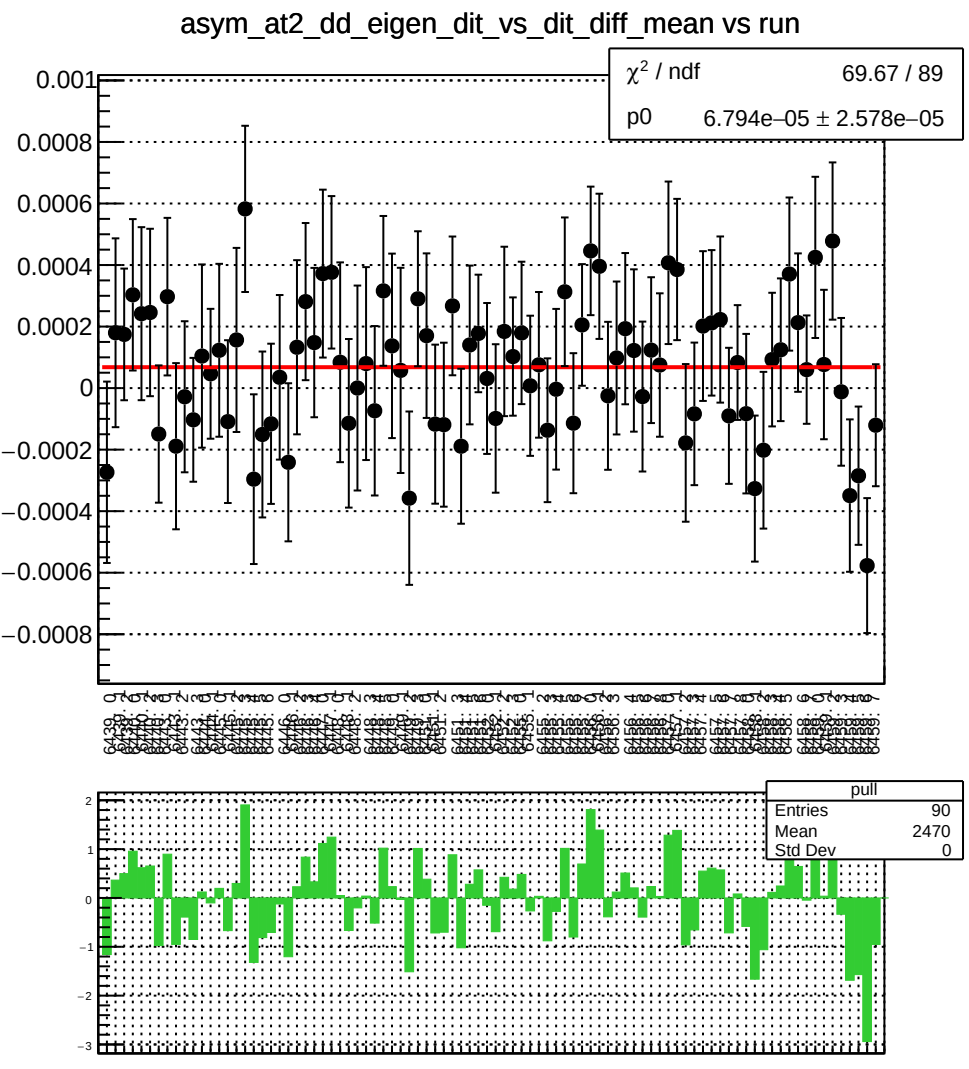

asym_at2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.065e+06 / 89
p0 1.527e−11 ± 1.803e−14
1.2
1
0.8
0.6
0.4
0.2
0

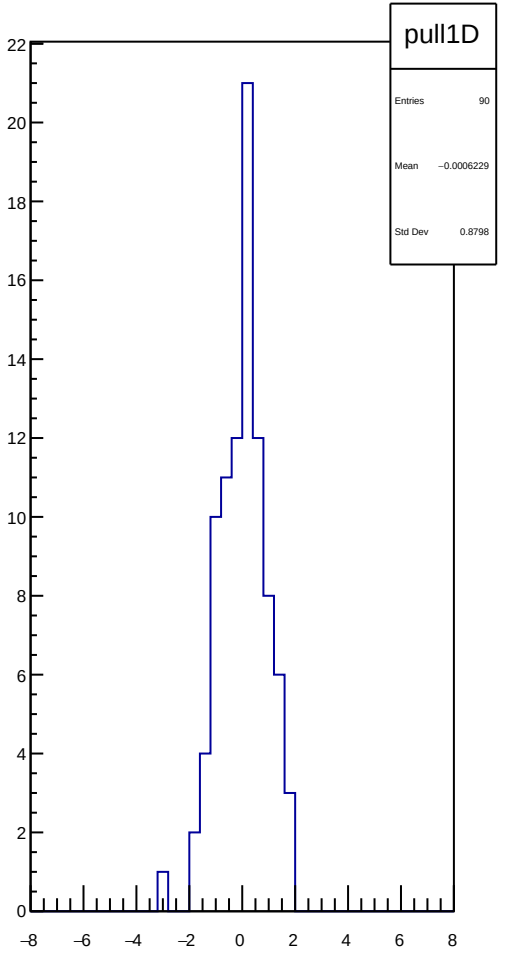

asym_at2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 72.51 / 89
p0 0.1023 ± 0.05003
pull
Entries 90
Mean −0.1687
Std Dev 0
pull1D
Entries 90
Mean −0.03162
Std Dev 0.897

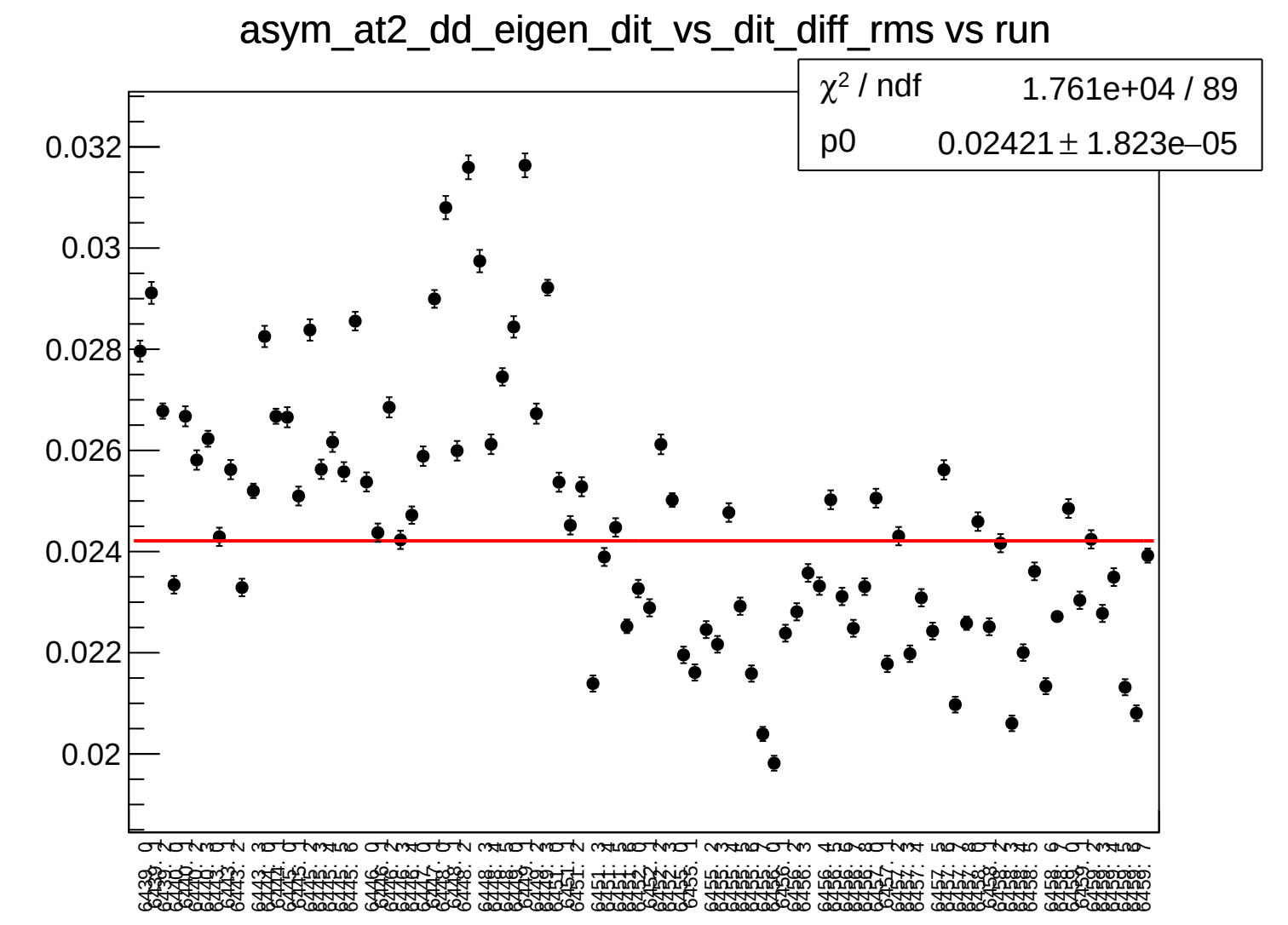

asym_at2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.099e+05 / 89
p0 44.35 ± 0.03537
100
80
60
40
20

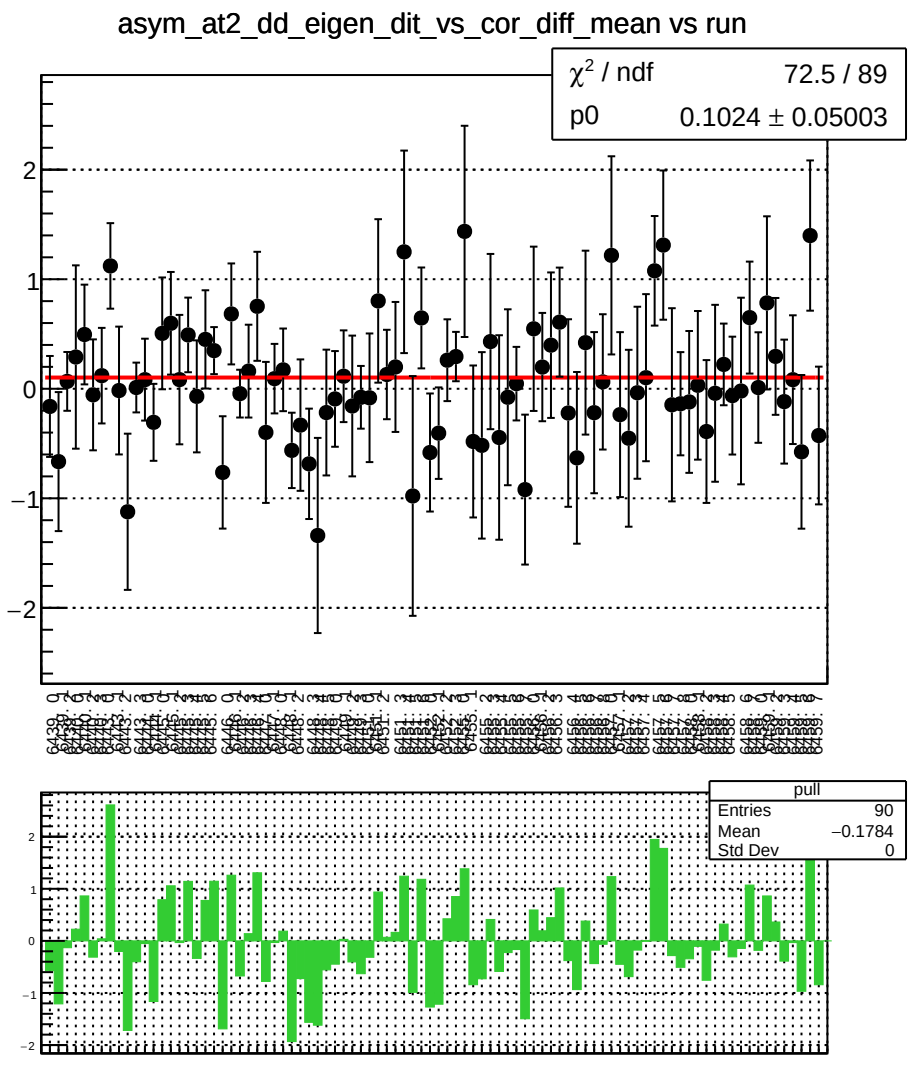

asym_at2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.51 / 89
p0 0.1023 ± 0.05003
pull
Entries 90
Mean −0.1687
Std Dev 0
pull1D
Entries 90
Mean −0.03162
Std Dev 0.897

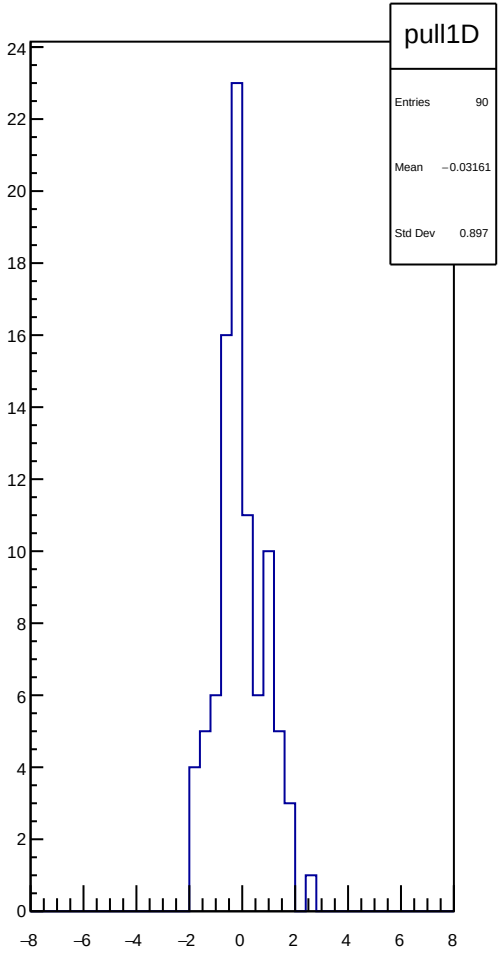

asym_at2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.099e+05 / 89
p0 44.35 ± 0.03537
100
80
60
40
20

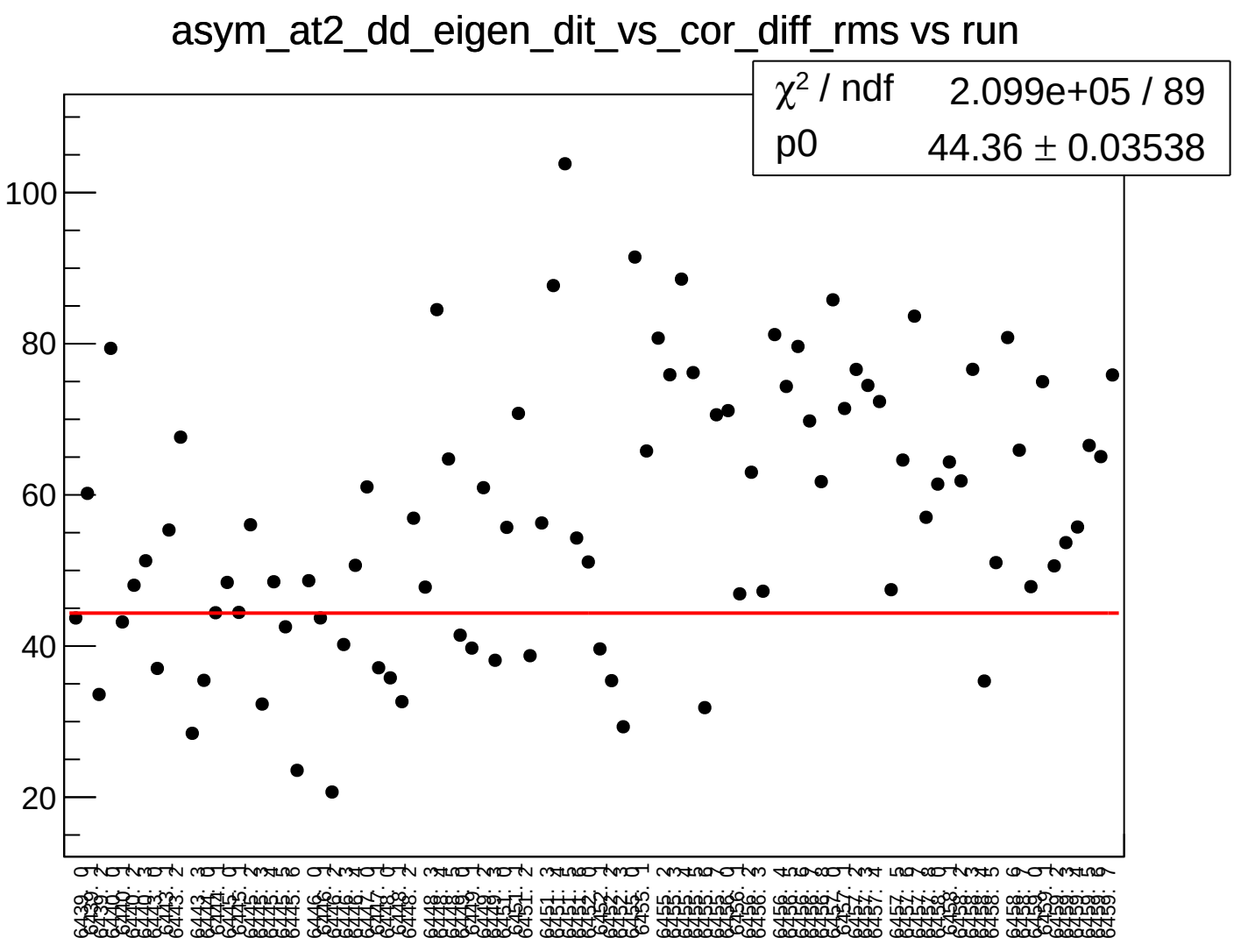

asym_at2_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 69.67 / 89
p0 6.794e−05 ± 2.578e−05
pull
Entries 90
Mean 2470
Std Dev 0

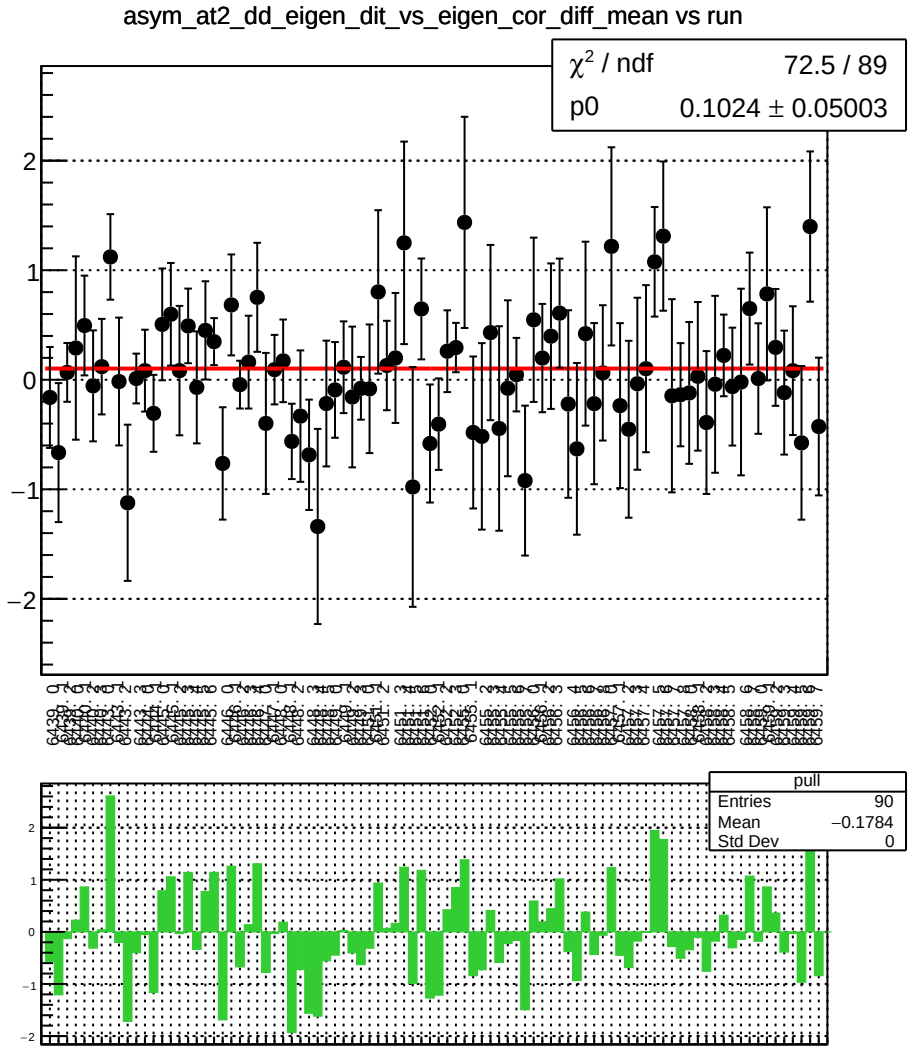

pull1D
Entries 90
Mean −0.0006229
Std Dev 0.8798

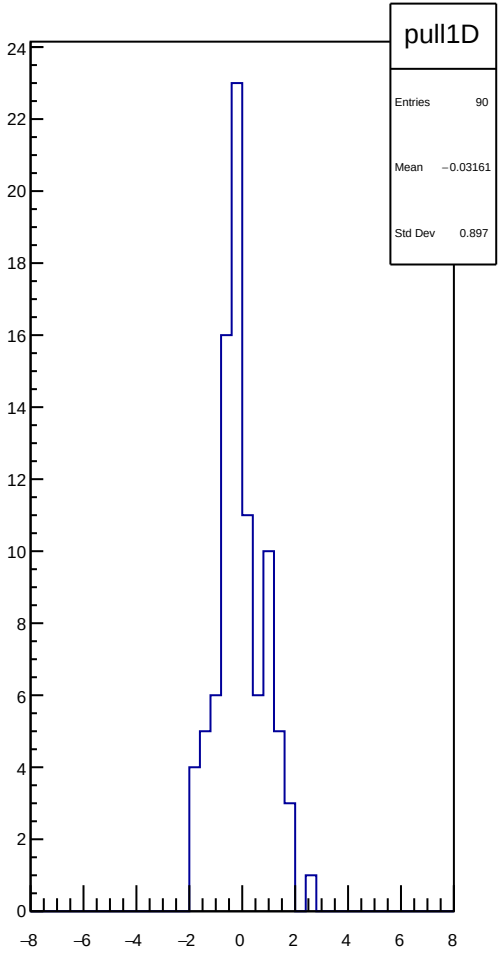

asym_at2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.761e+04 / 89
p0 0.02421 ± 1.823e−05
0.032
0.03
0.028
0.026
0.024
0.022
0.02

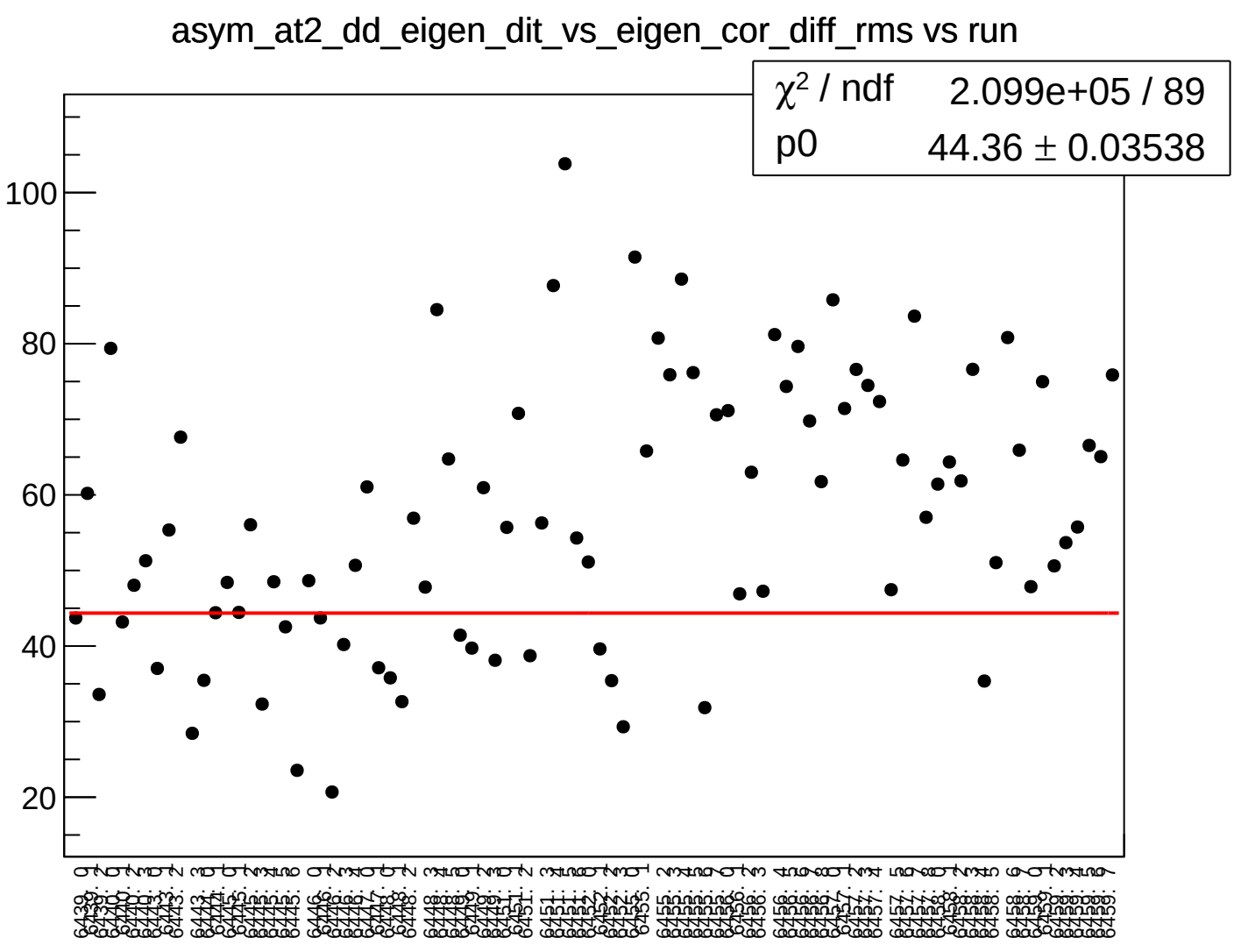

asym_at2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 72.5 / 89
p0 0.1024 ± 0.05003
pull
Entries 90
Mean −0.1784
Std Dev 0

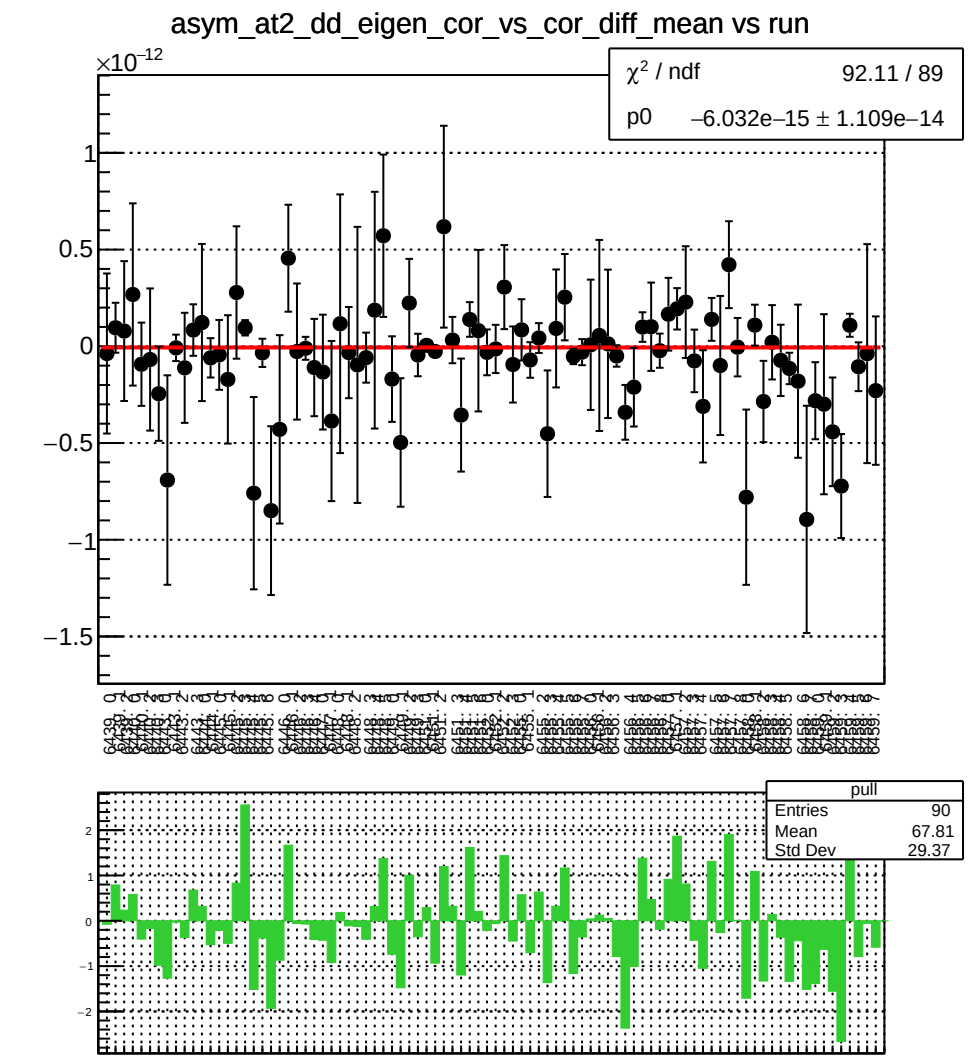

pull1D
Entries 90
Mean −0.03161
Std Dev 0.897

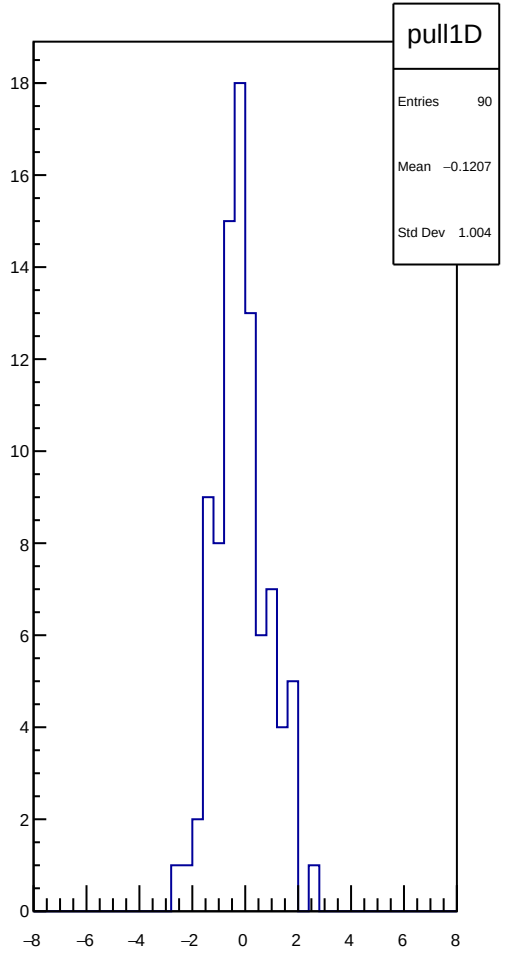

asym_at2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.099e+05 / 89
p0 44.36 ± 0.03538
100
80
60
40
20

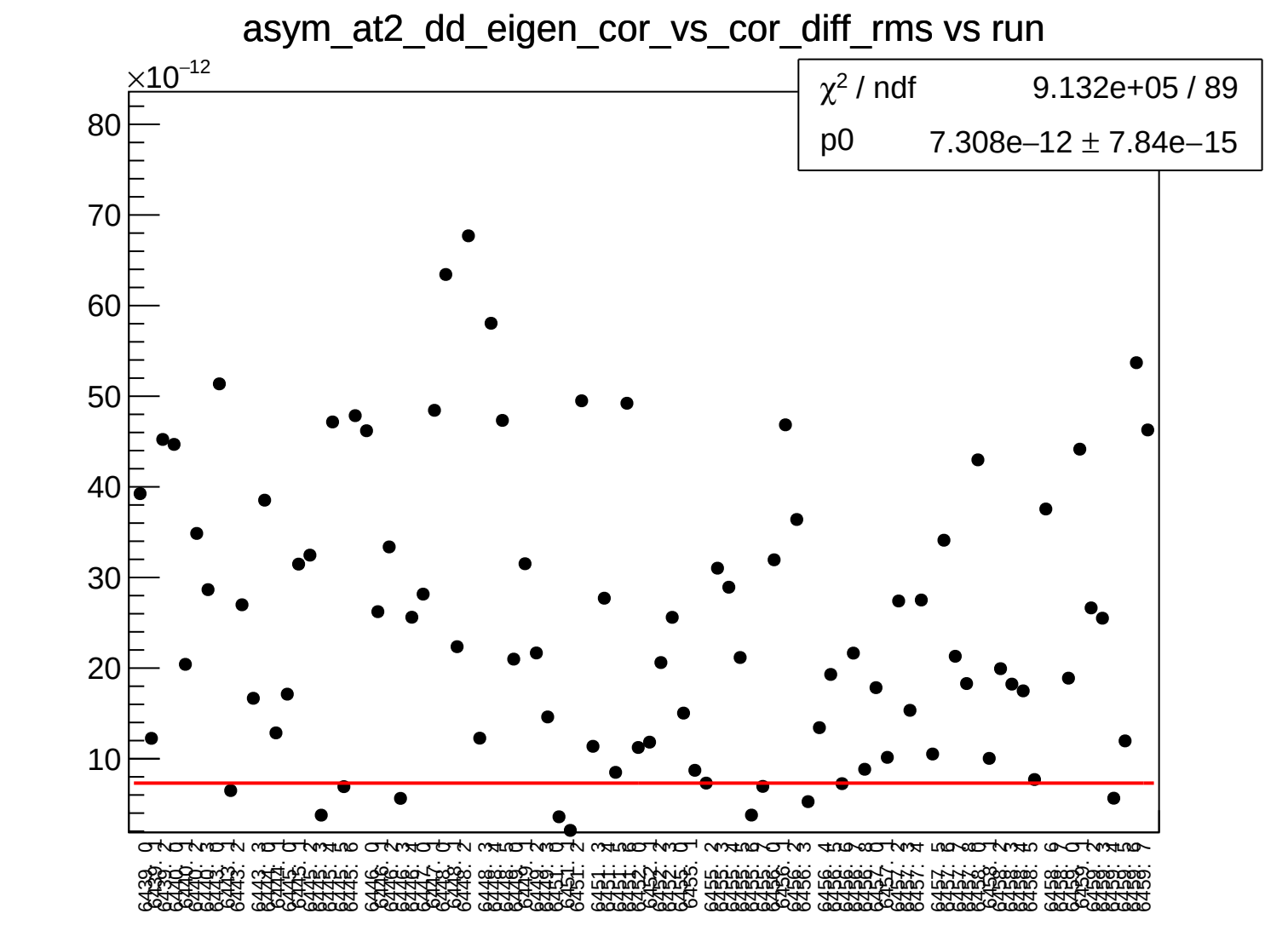

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.5 / 89
p0 0.1024 ± 0.05003
pull
Entries 90
Mean −0.1784
Std Dev 0

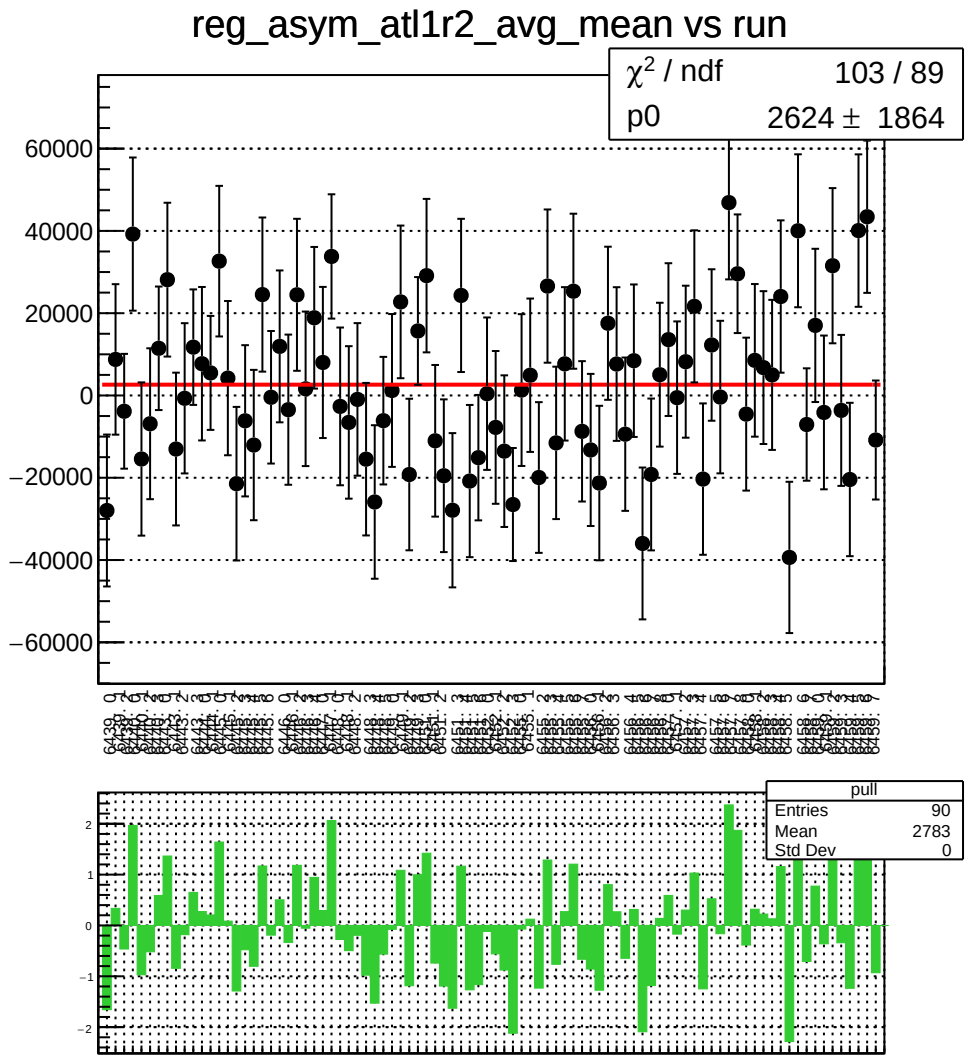

pull1D
Entries 90
Mean −0.03161
Std Dev 0.897

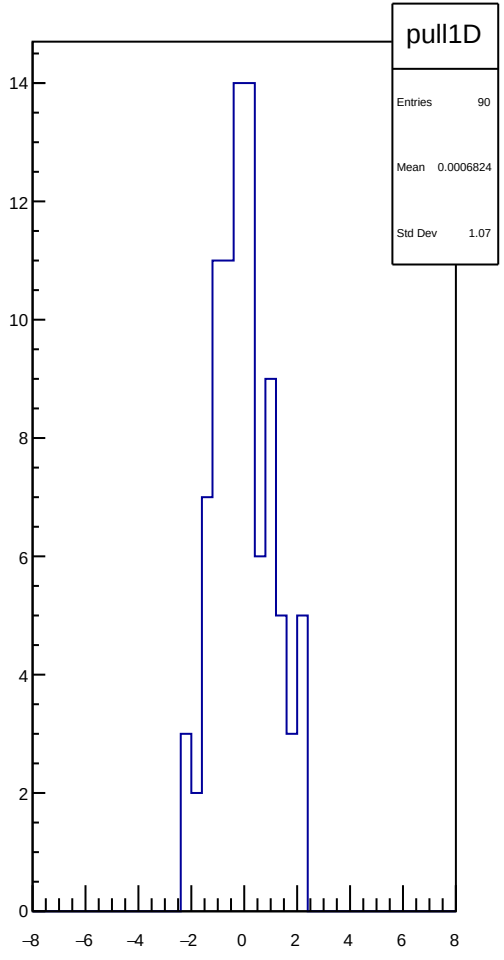

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.099e+05 / 89
p0 44.36 ± 0.03538
100
80
60
40
20

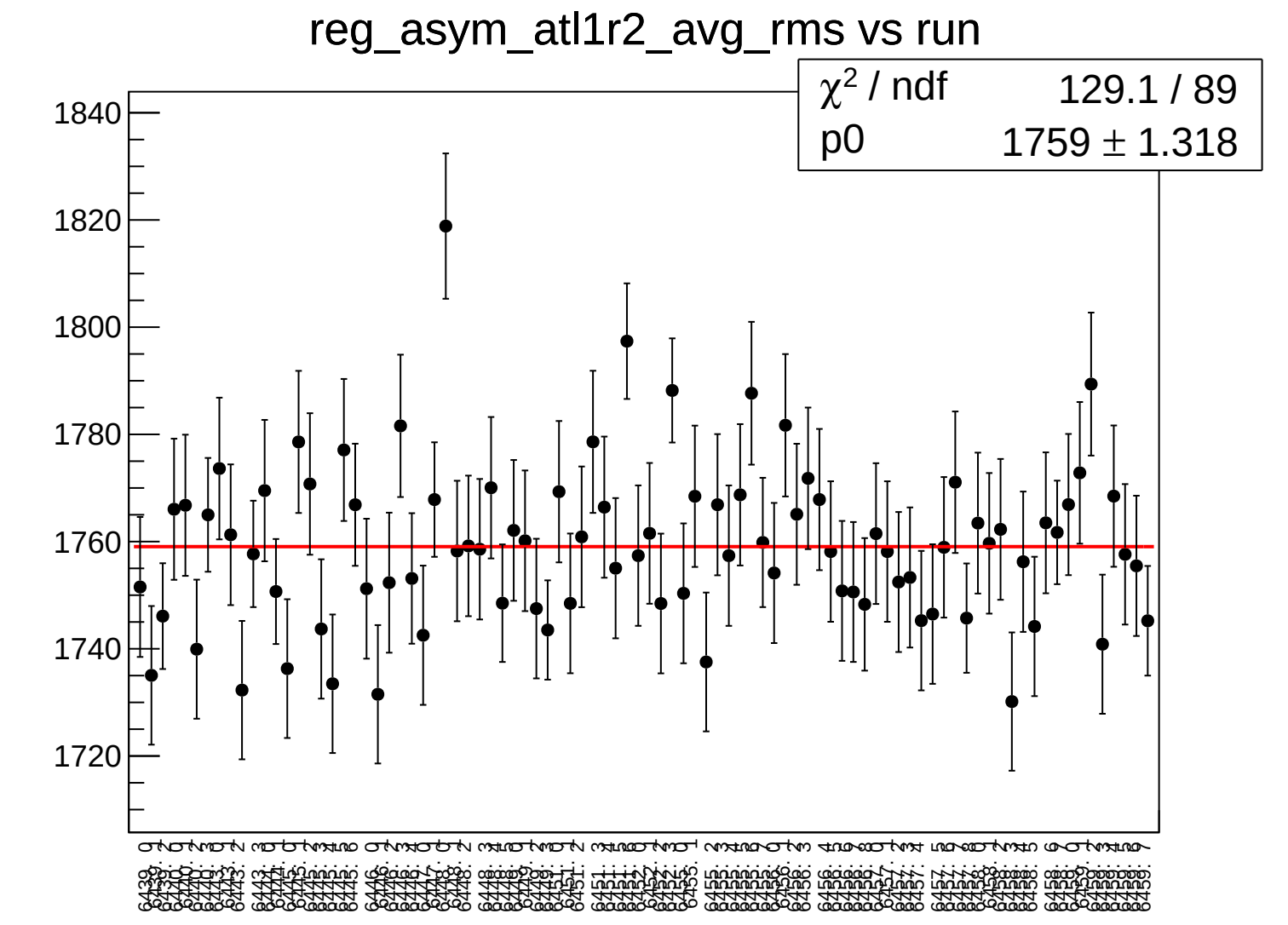

asym_at2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.11 / 89
p0 −6.032e−15 ± 1.109e−14
pull
Entries 90
Mean 67.81
Std Dev 29.37

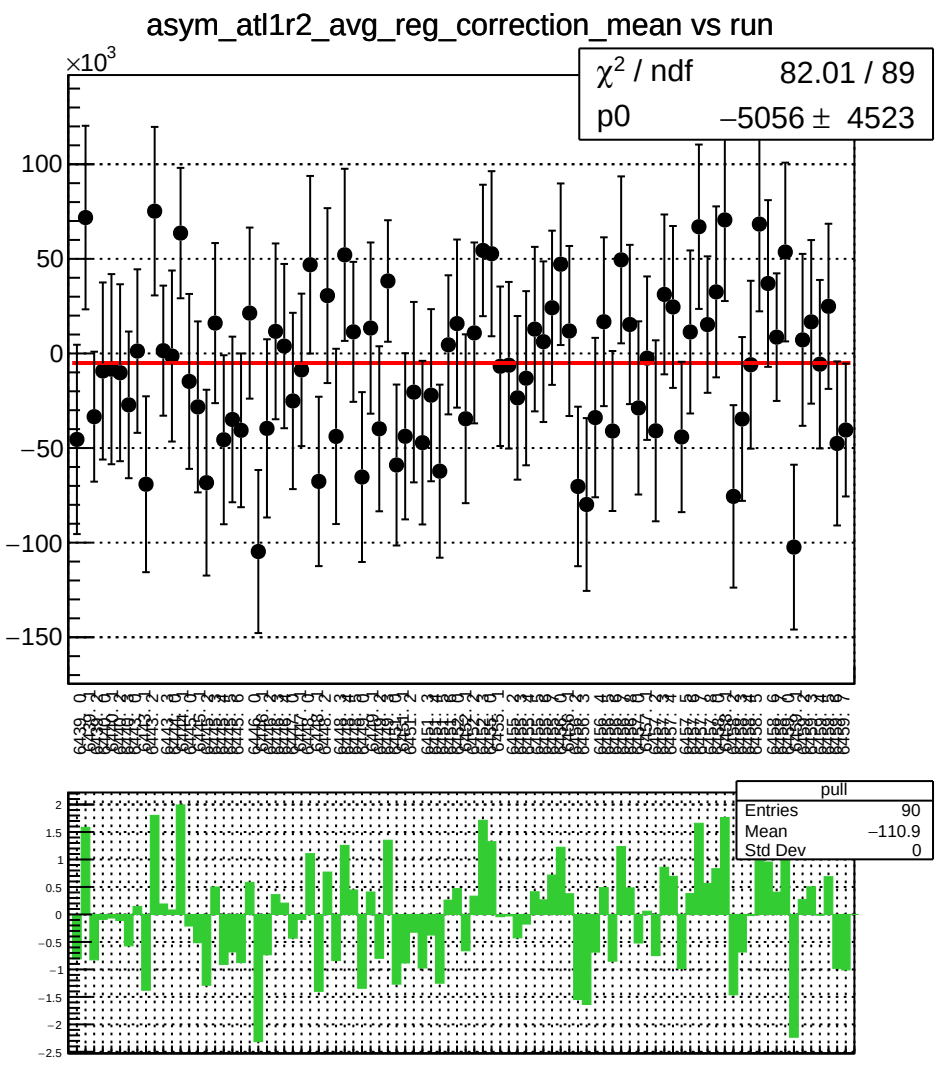

pull1D
Entries 90
Mean −0.1207
Std Dev 1.004

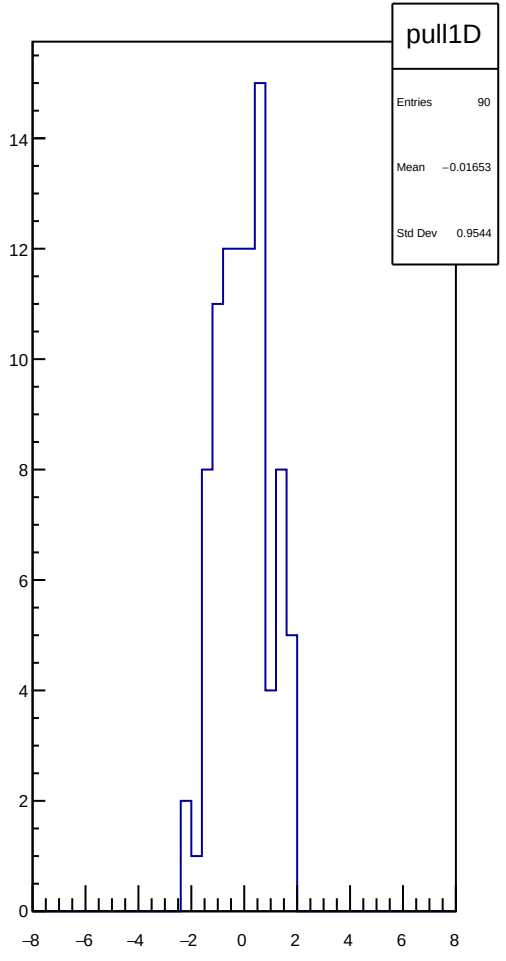

asym_at2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 9.132e+05 / 89
p0 7.308e−12 ± 7.84e−15
80
70
60
50
40
30
20
10

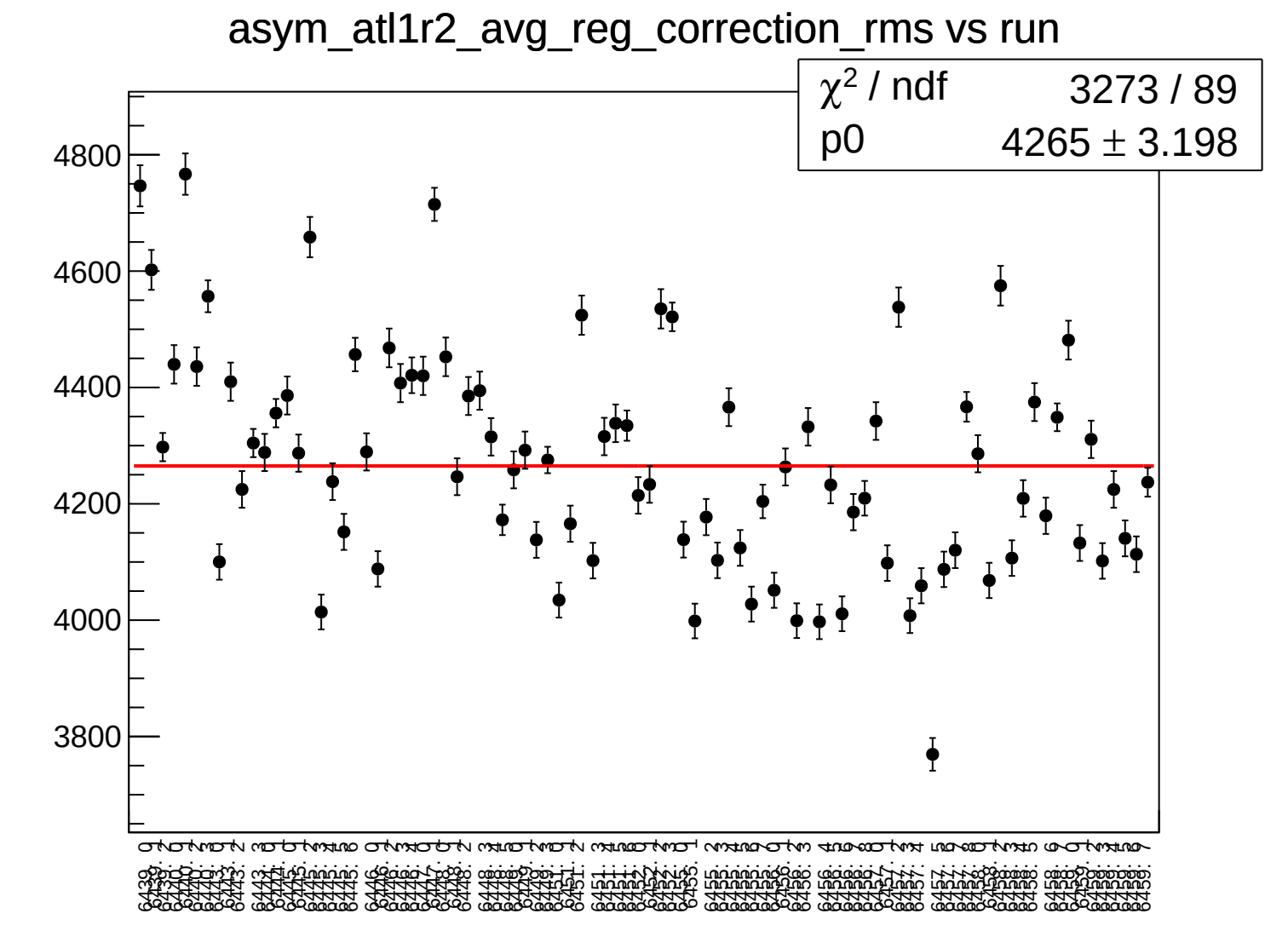

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 103 / 89
p0 2624 ± 1864
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 2783
Std Dev 0
2
1
0
−1
−2

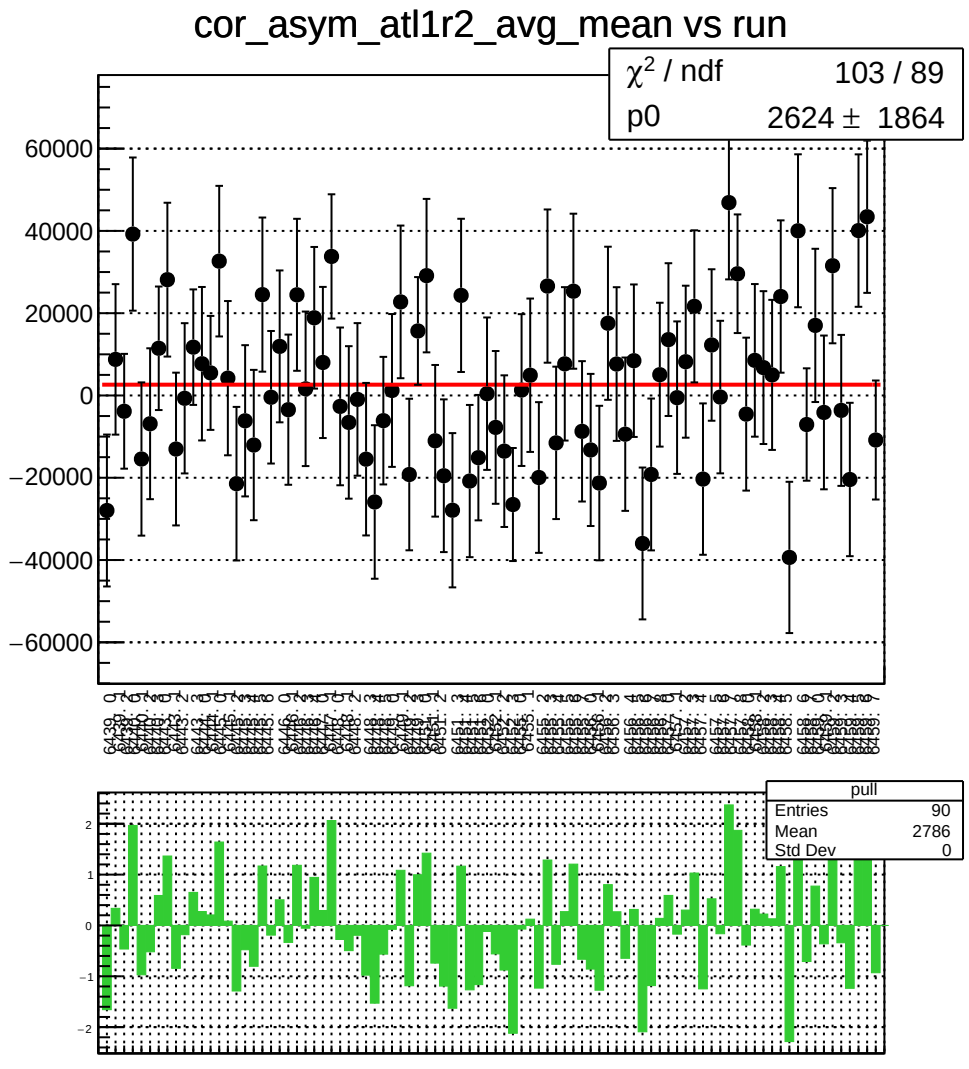

pull1D
Entries 90
Mean 0.0006824
Std Dev 1.07
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

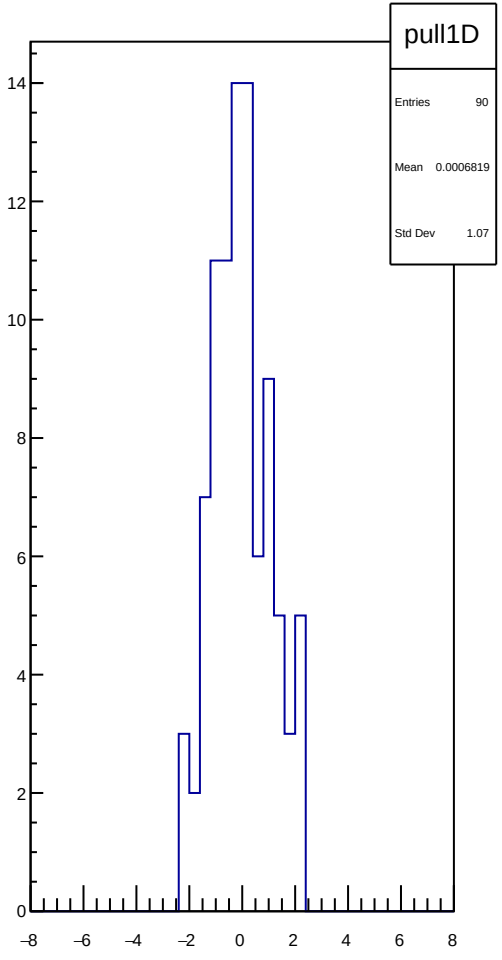

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 129.1 / 89
p0 1759 ± 1.318
1840
1820
1800
1780
1760
1740
1720

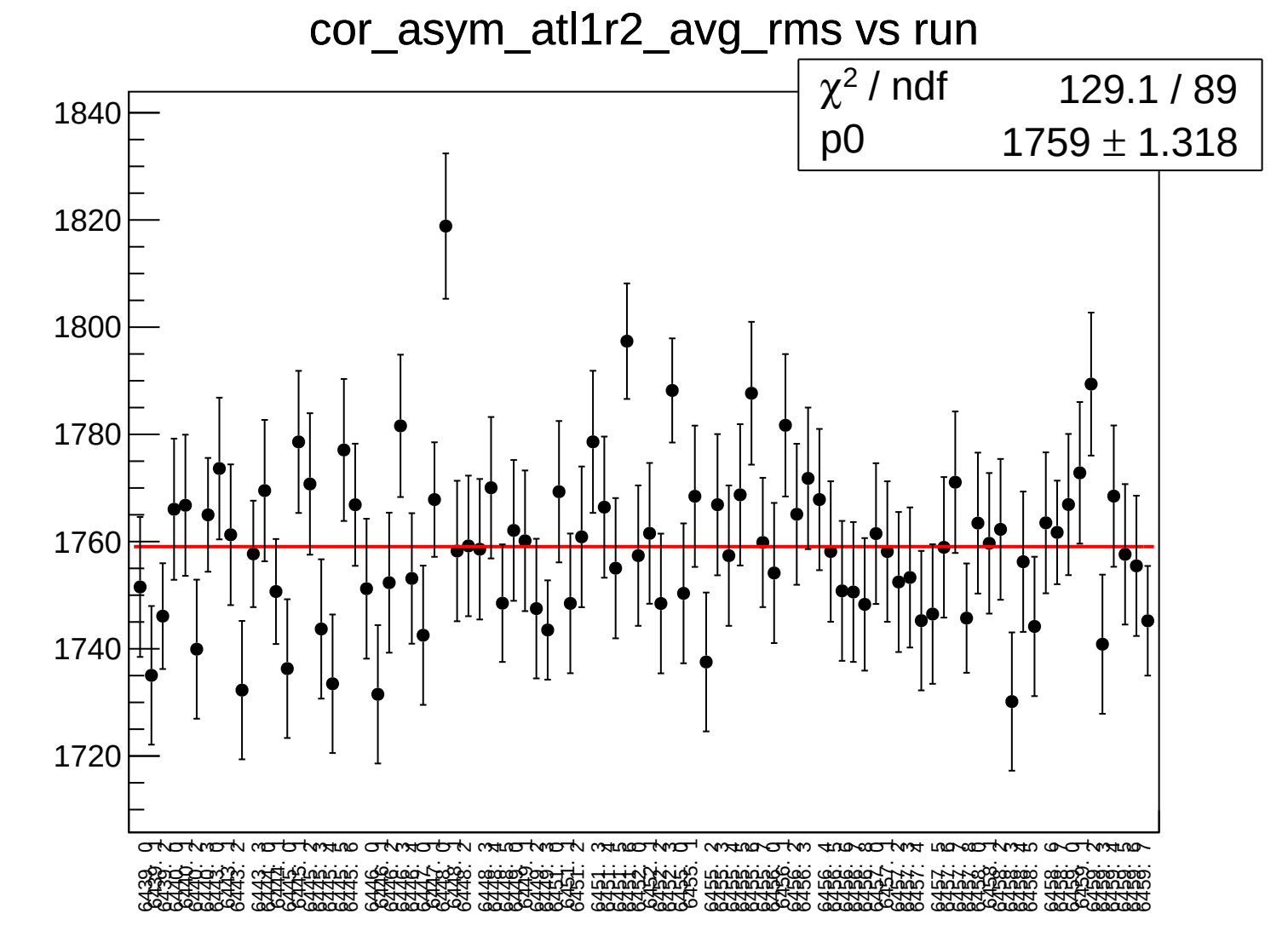

asym_atl1r2_avg_reg_correction_mean vs run
χ^2 / ndf 82.01 / 89
p0 −5056 ± 4523
×10^3
100
50
0
−50
−100
−150
pull
Entries 90
Mean −110.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

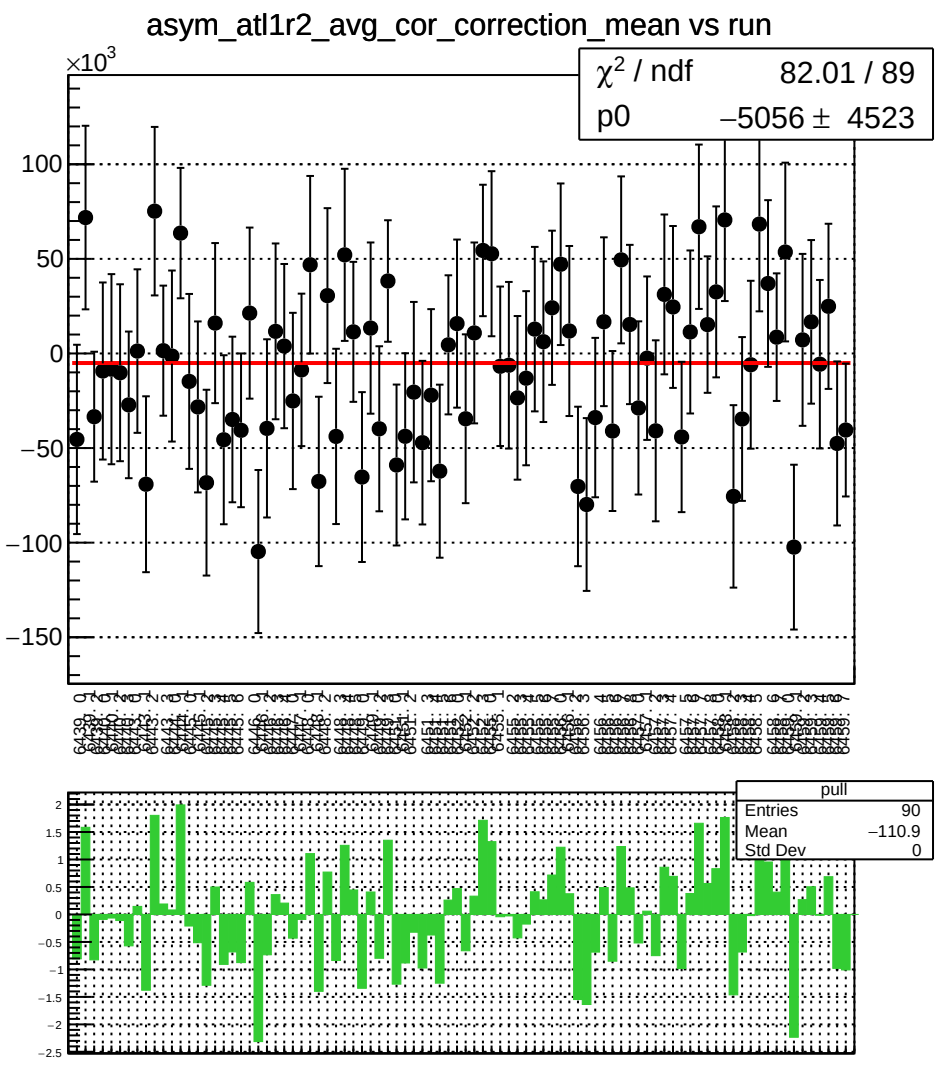

pull1D
Entries 90
Mean −0.01653
Std Dev 0.9544
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

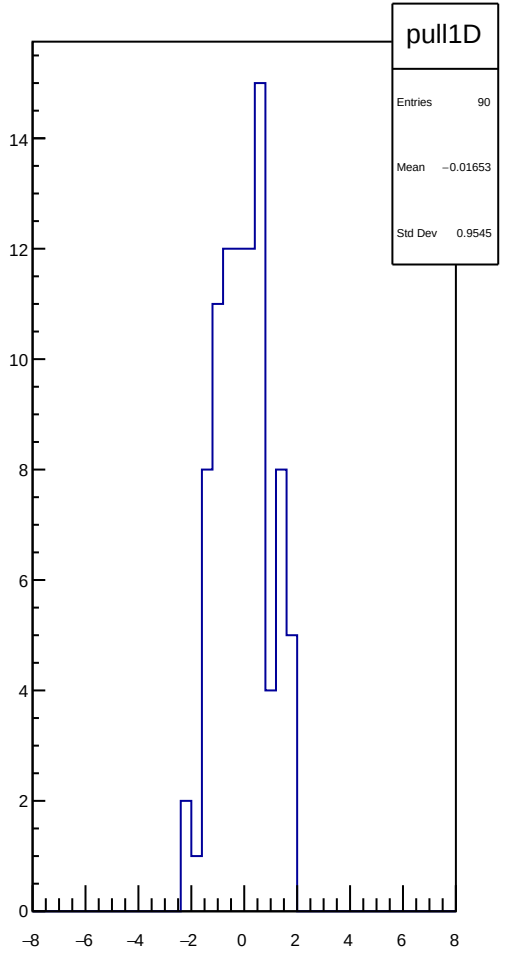

asym_atl1r2_avg_reg_correction_rms vs run
χ² / ndf 3273 / 89
p0 4265 ± 3.198
4800
4600
4400
4200
4000
3800

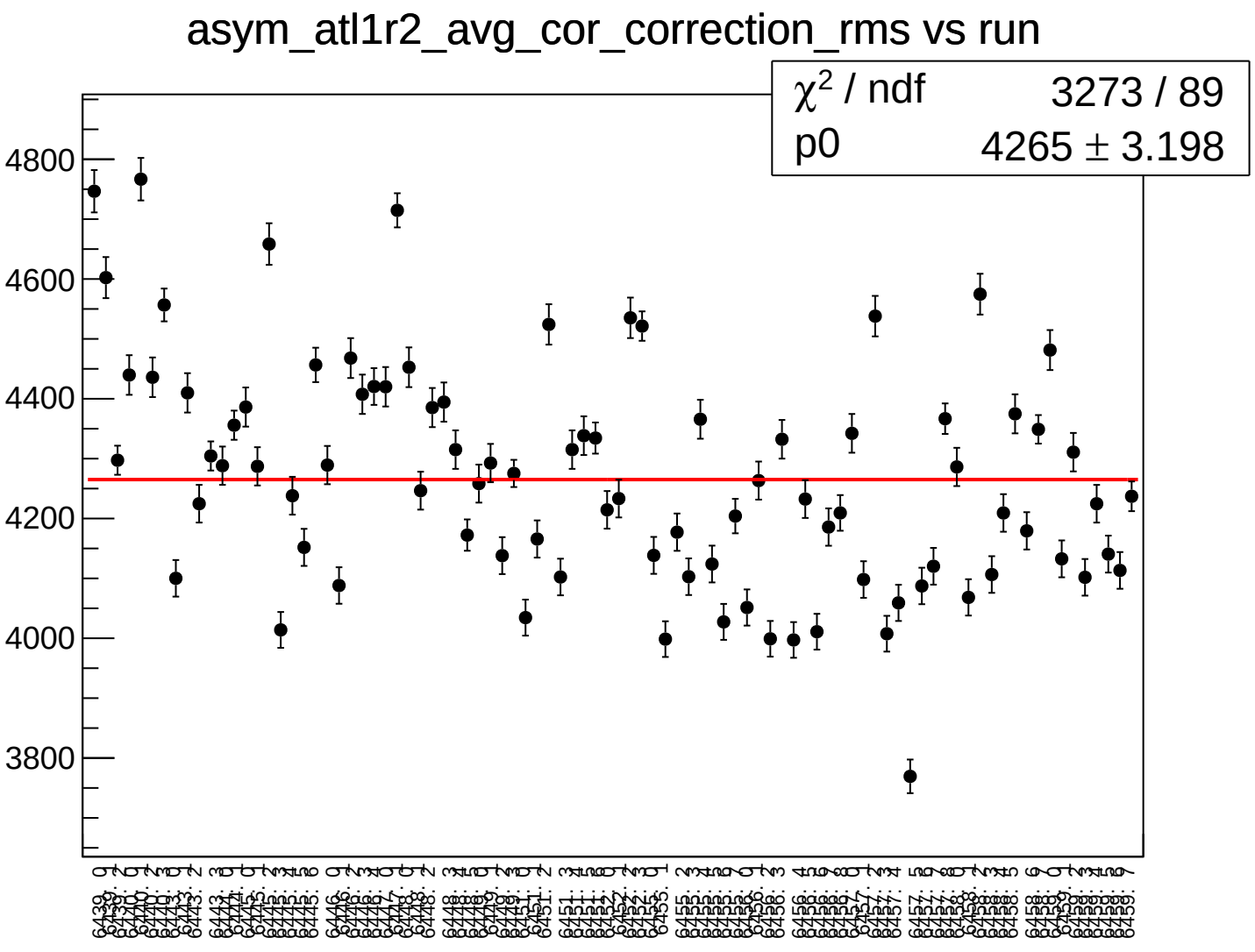

cor_asym_atl1r2_avg_mean vs run
χ² / ndf 103 / 89
p0 2624 ± 1864
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 2786
Std Dev 0
2
1
0
−1
−2

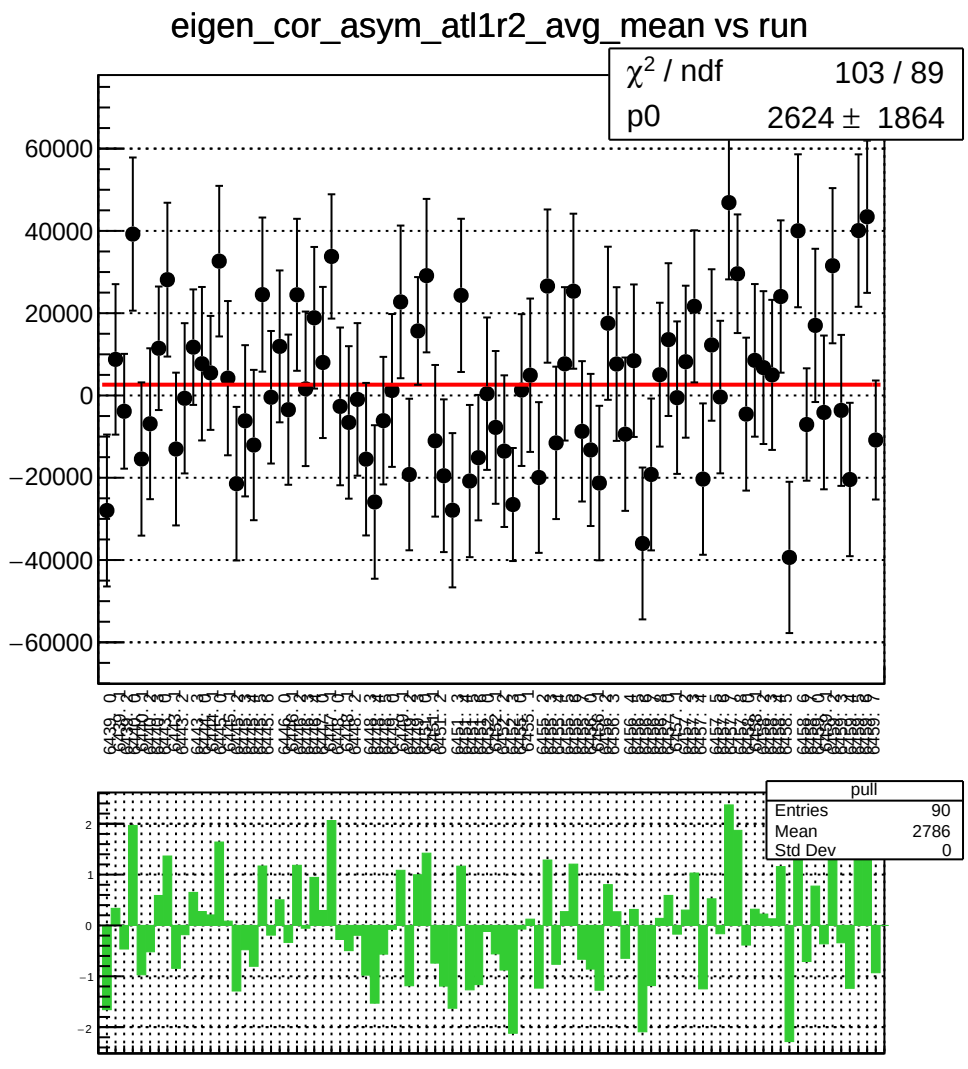

pull1D
Entries 90
Mean 0.0006819
Std Dev 1.07
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

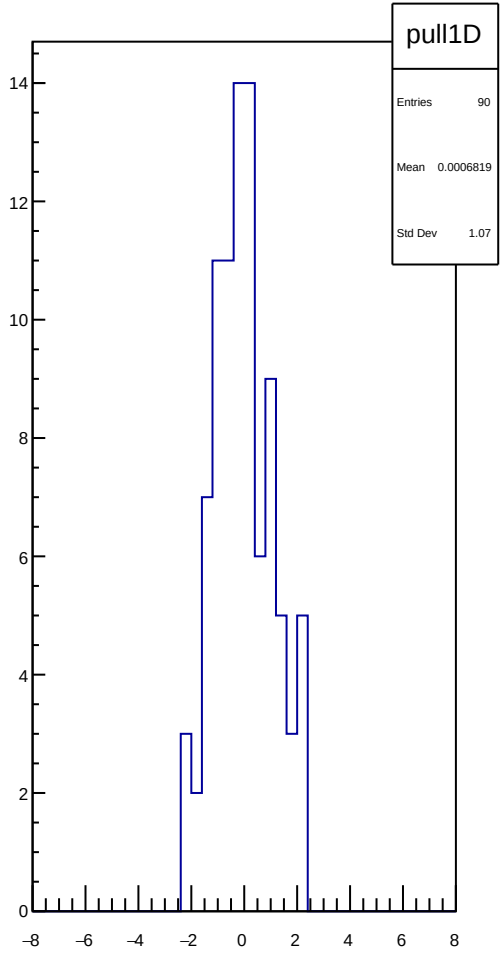

cor_asym_atl1r2_avg_rms vs run
χ² / ndf 129.1 / 89
p0 1759 ± 1.318
1840
1820
1800
1780
1760
1740
1720

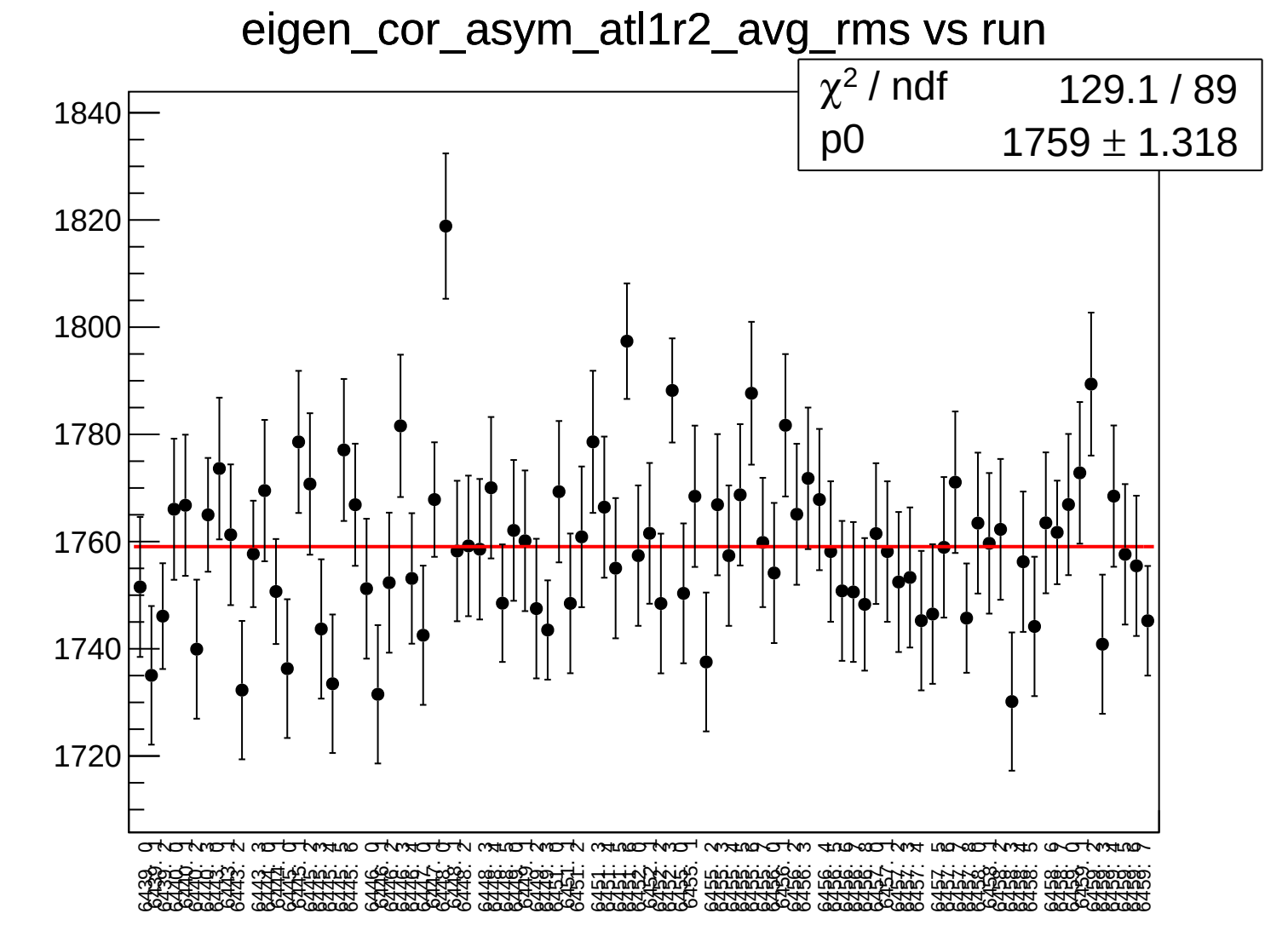

asym_atl1r2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 82.01 / 89
p0 −5056 ± 4523
100
50
0
−50
−100
−150
pull
Entries 90
Mean −110.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

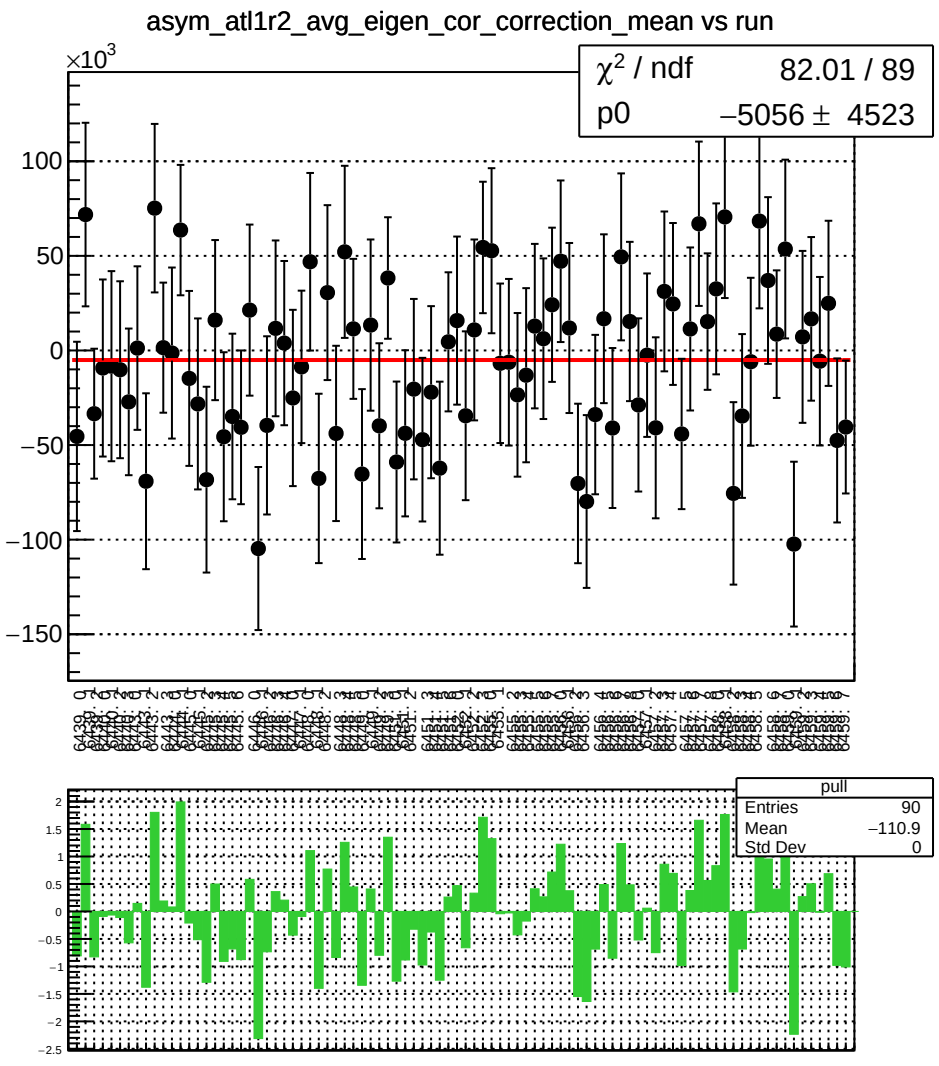

pull1D
Entries 90
Mean −0.01653
Std Dev 0.9545
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

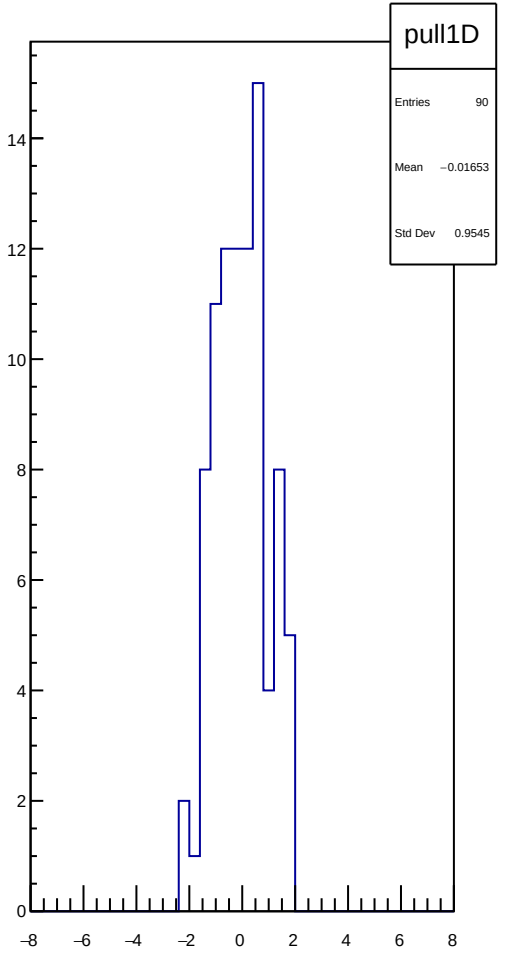

asym_atl1r2_avg_cor_correction_rms vs run
χ² / ndf 3273 / 89
p0 4265 ± 3.198
4800
4600
4400
4200
4000
3800

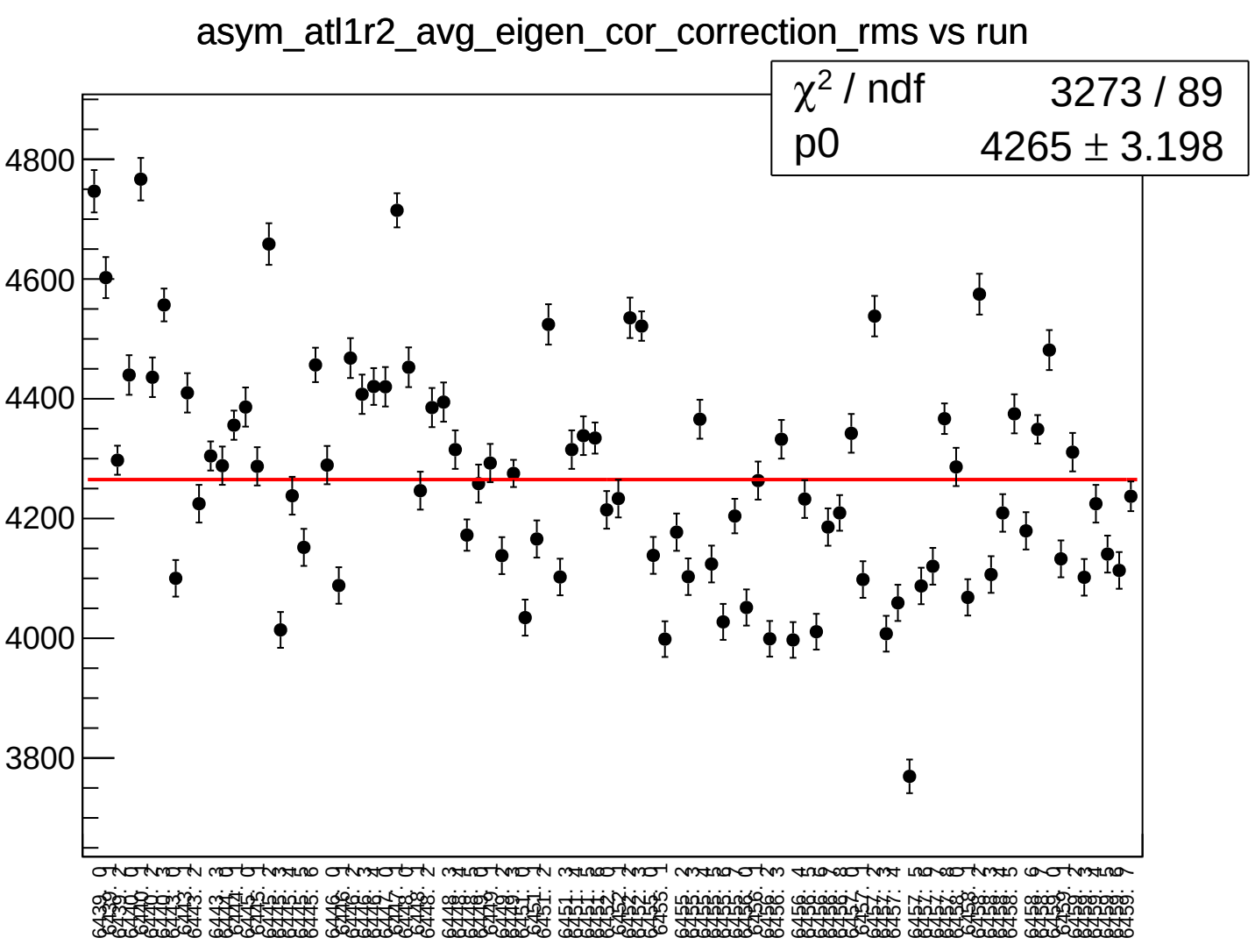

eigen_cor_asym_atl1r2_avg_mean vs run
χ² / ndf 103 / 89
p0 2624 ± 1864
pull
Entries 90
Mean 2786
Std Dev 0

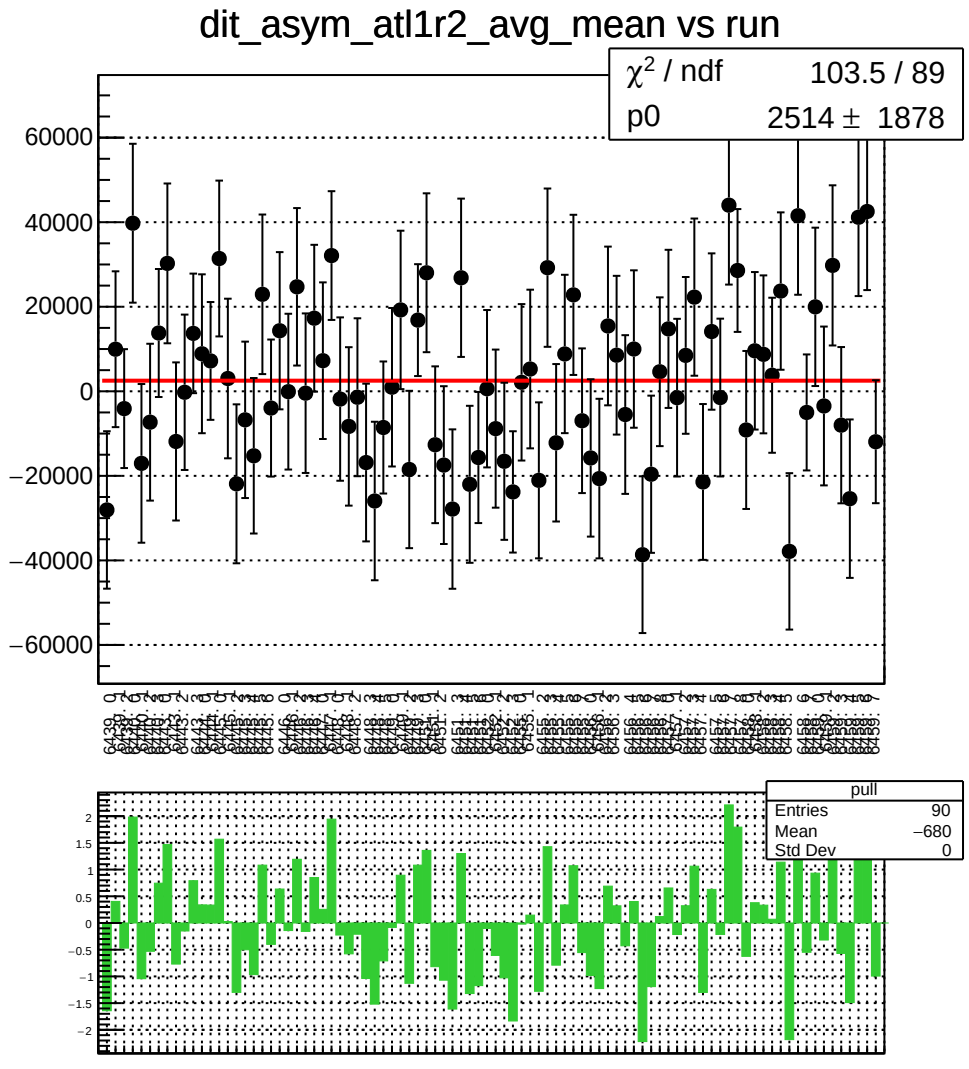

pull1D
Entries 90
Mean 0.0006819
Std Dev 1.07

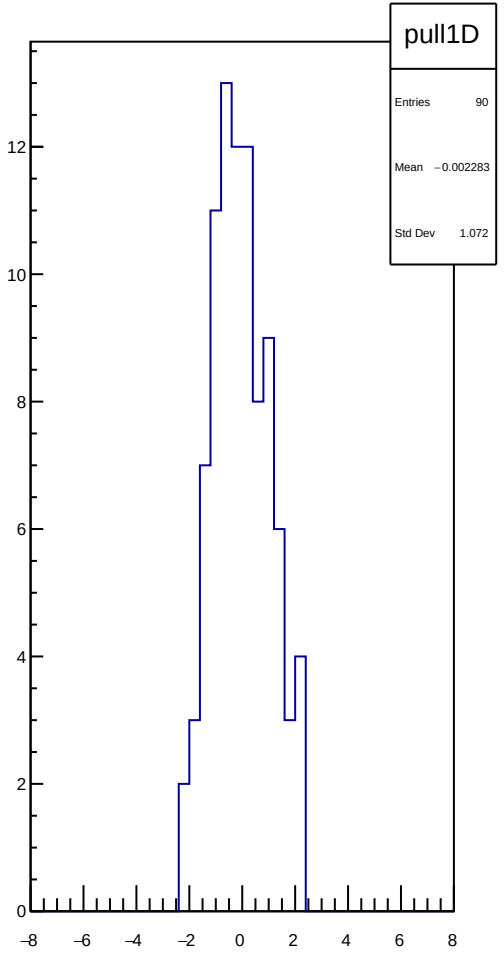

eigen_cor_asym_atl1r2_avg_rms vs run
χ^2 / ndf 129.1 / 89
p0 1759 ± 1.318
1840
1820
1800
1780
1760
1740
1720

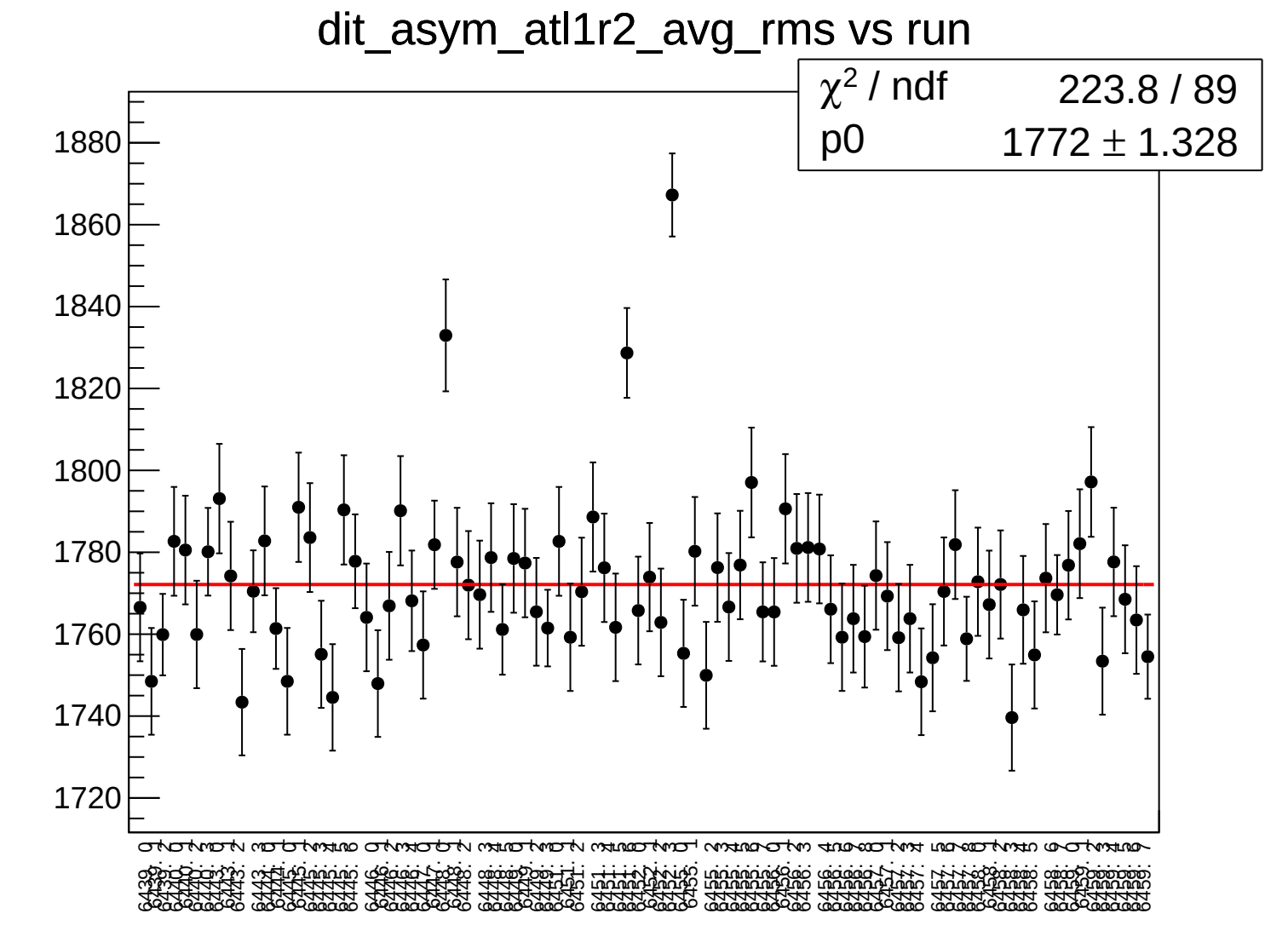

asym_atl1r2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 82.01 / 89
p0 −5056 ± 4523
100
50
0
−50
−100
−150
pull
Entries 90
Mean −110.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

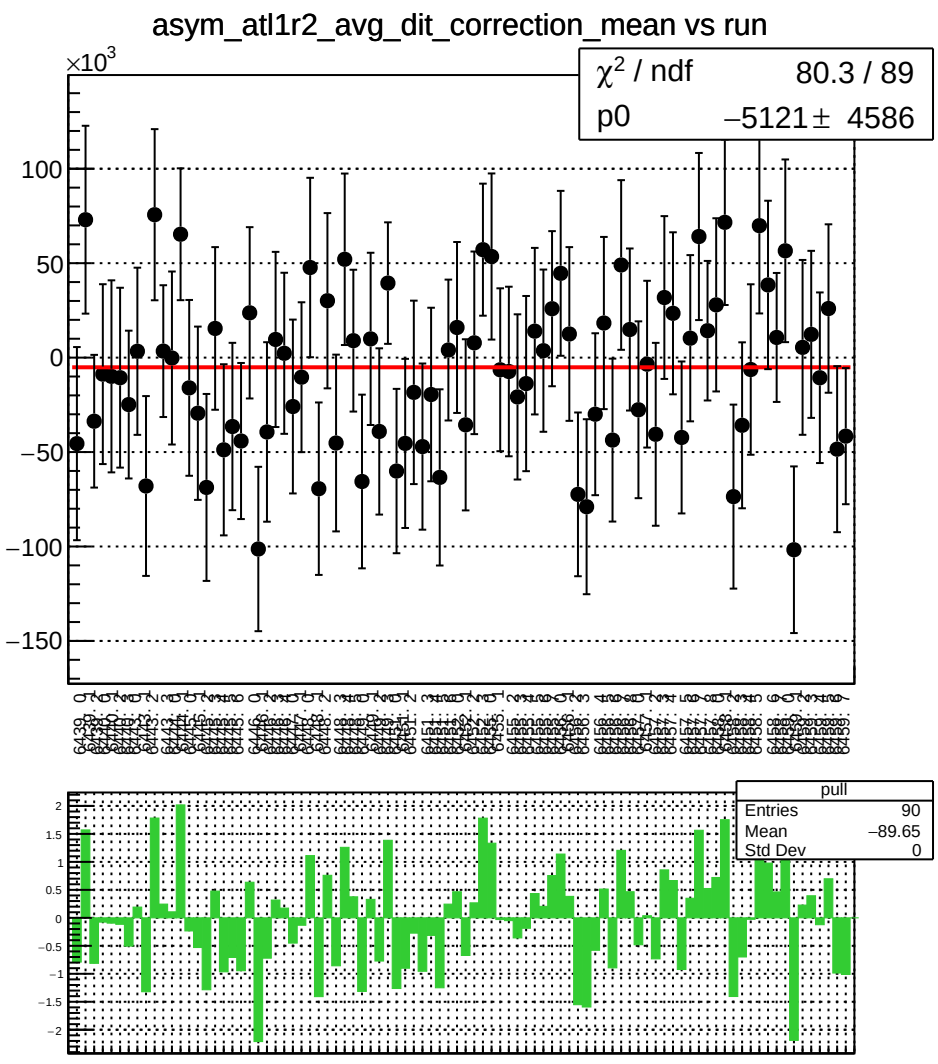

pull1D
Entries 90
Mean −0.01653
Std Dev 0.9545
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

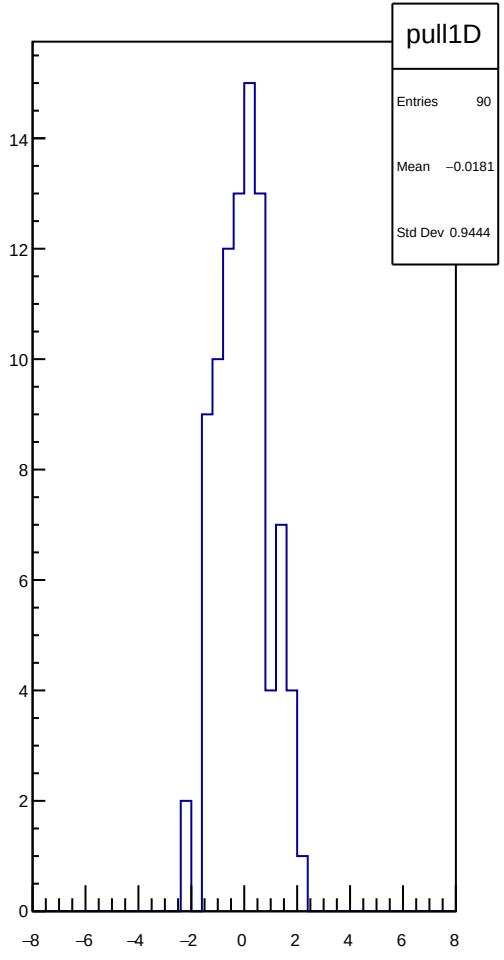

asym_atl1r2_avg_eigen_cor_correction_rms vs run
χ² / ndf 3273 / 89
p0 4265 ± 3.198
4800
4600
4400
4200
4000
3800

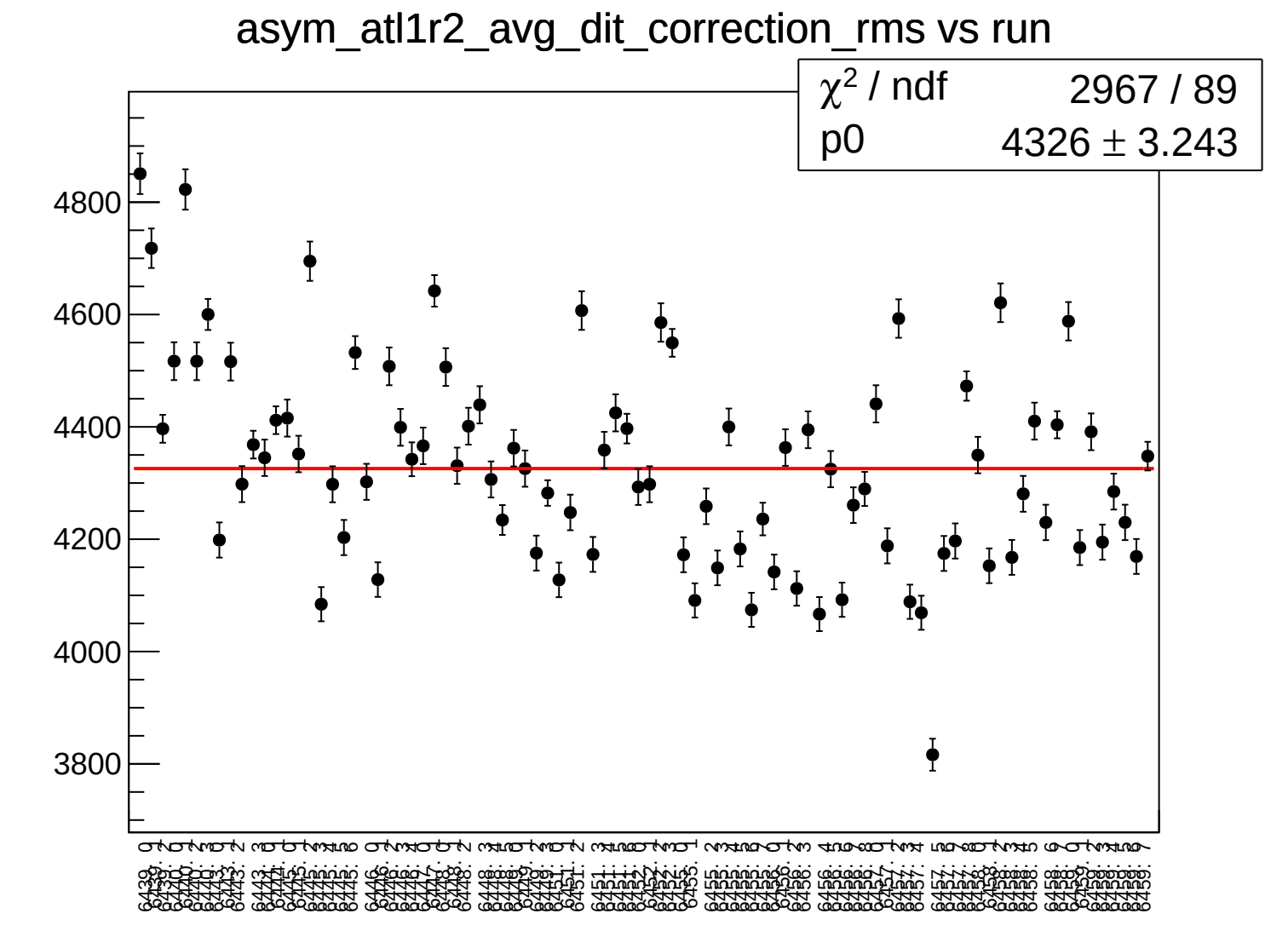

dit_asym_atl1r2_avg_mean vs run
χ² / ndf 103.5 / 89
p0 2514 ± 1878
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −680
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

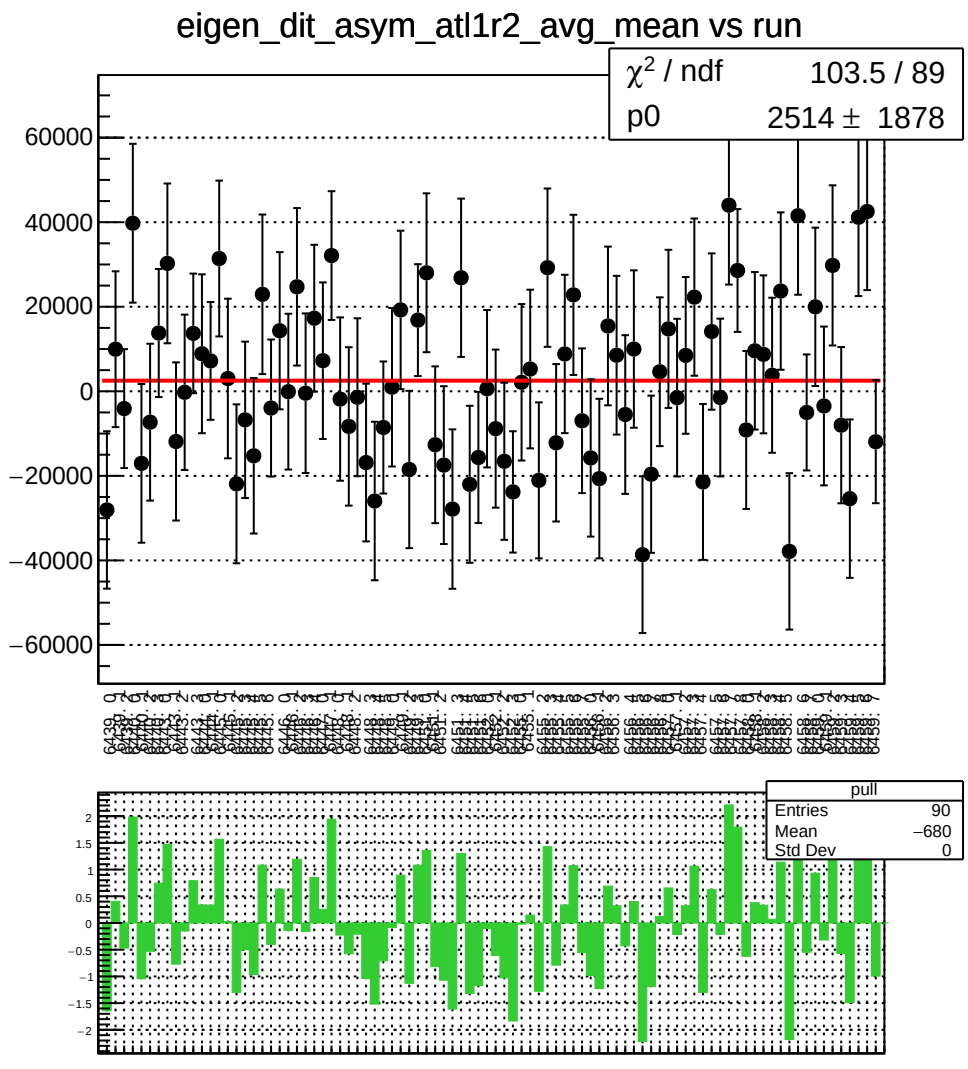

pull1D
Entries 90
Mean −0.002283
Std Dev 1.072
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

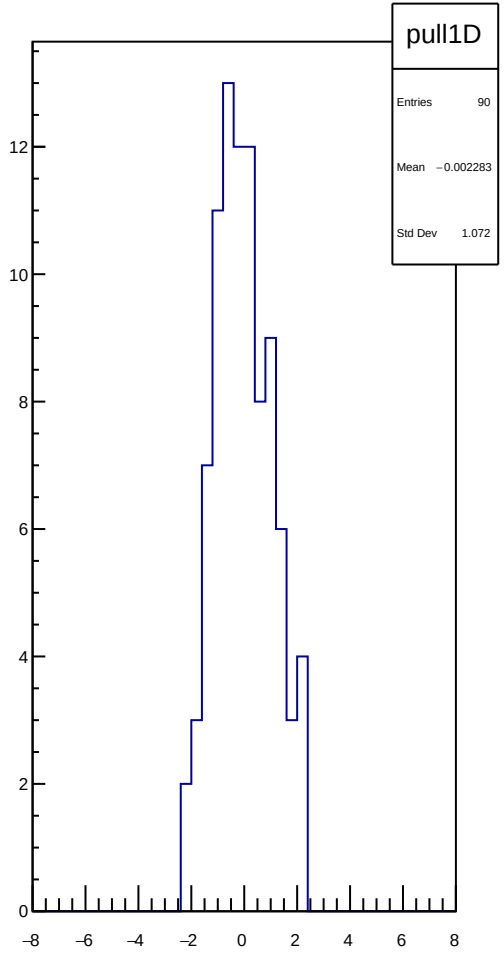

dit_asym_atl1r2_avg_rms vs run
χ² / ndf 223.8 / 89
p0 1772 ± 1.328
1880
1860
1840
1820
1800
1780
1760
1740
1720

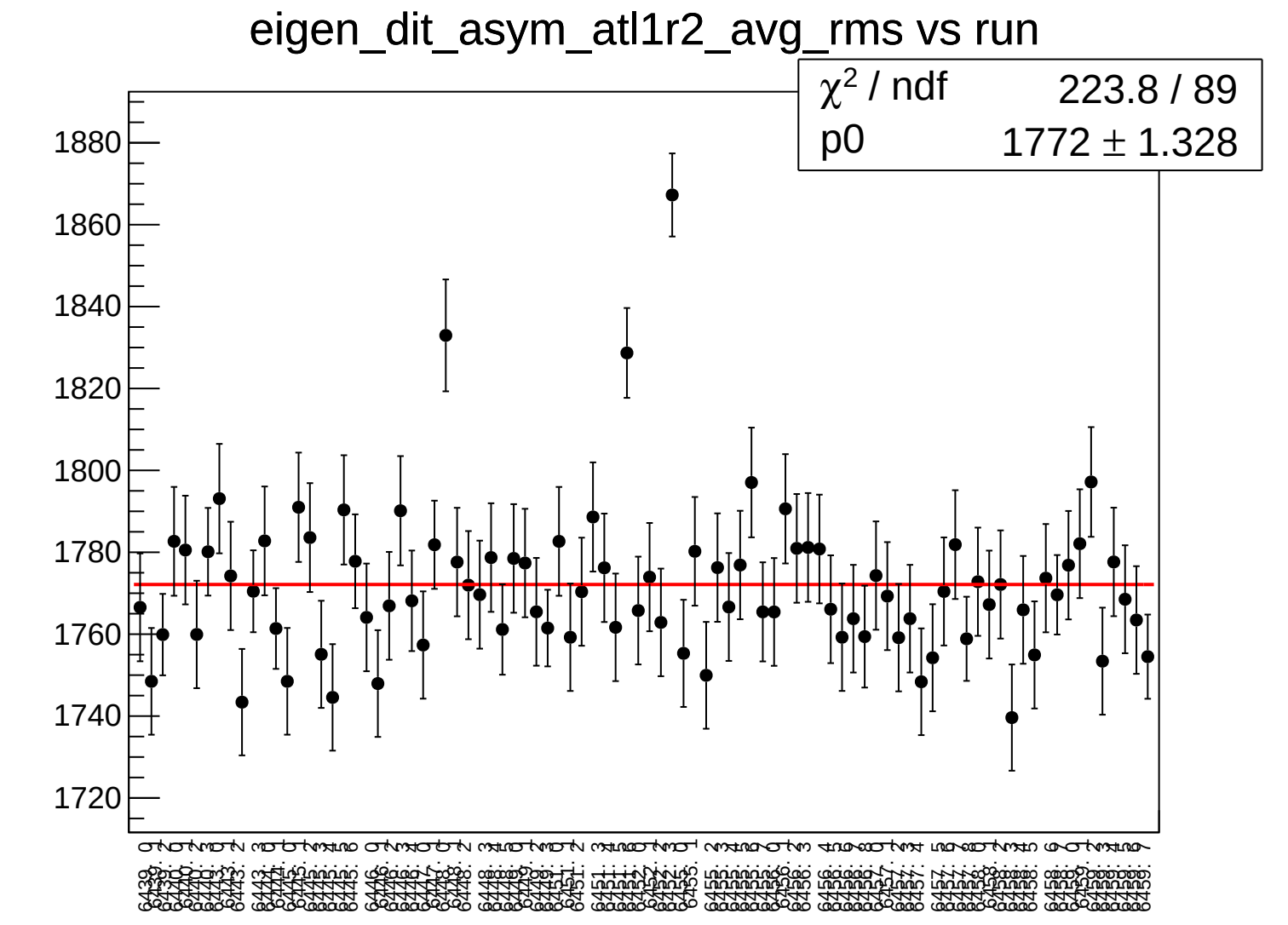

asym_atl1r2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 80.3 / 89
p0 −5121 ± 4586
100
50
0
−50
−100
−150
pull
Entries 90
Mean −89.65
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

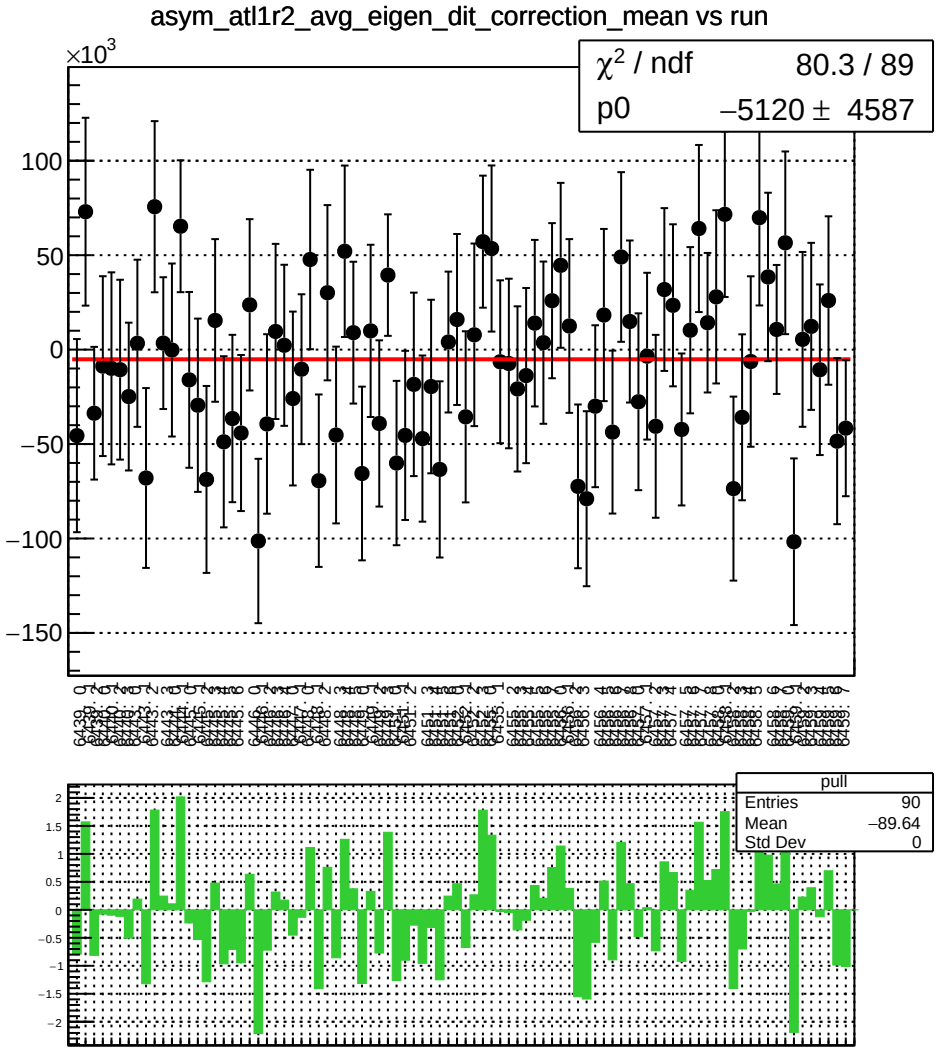

pull1D
Entries 90
Mean −0.0181
Std Dev 0.9444
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

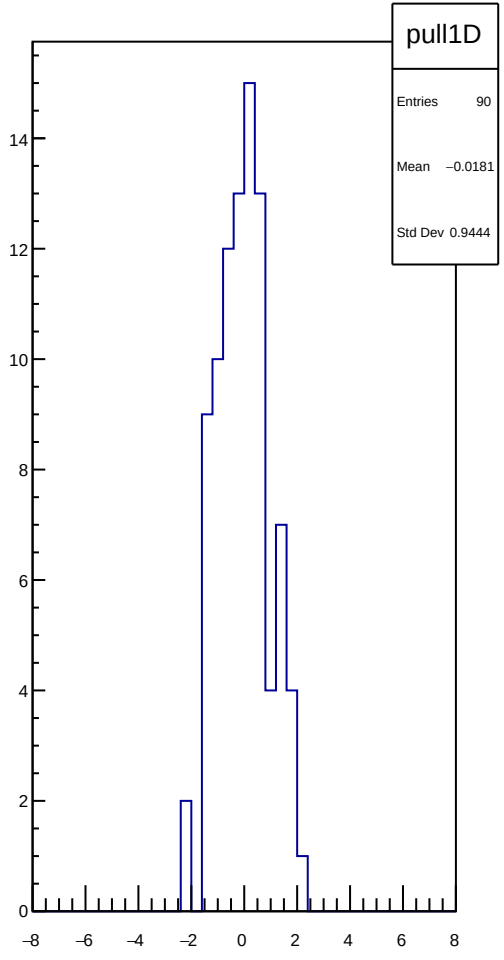

asym_atl1r2_avg_dit_correction_rms vs run
χ² / ndf 2967 / 89
p0 4326 ± 3.243
4800
4600
4400
4200
4000
3800

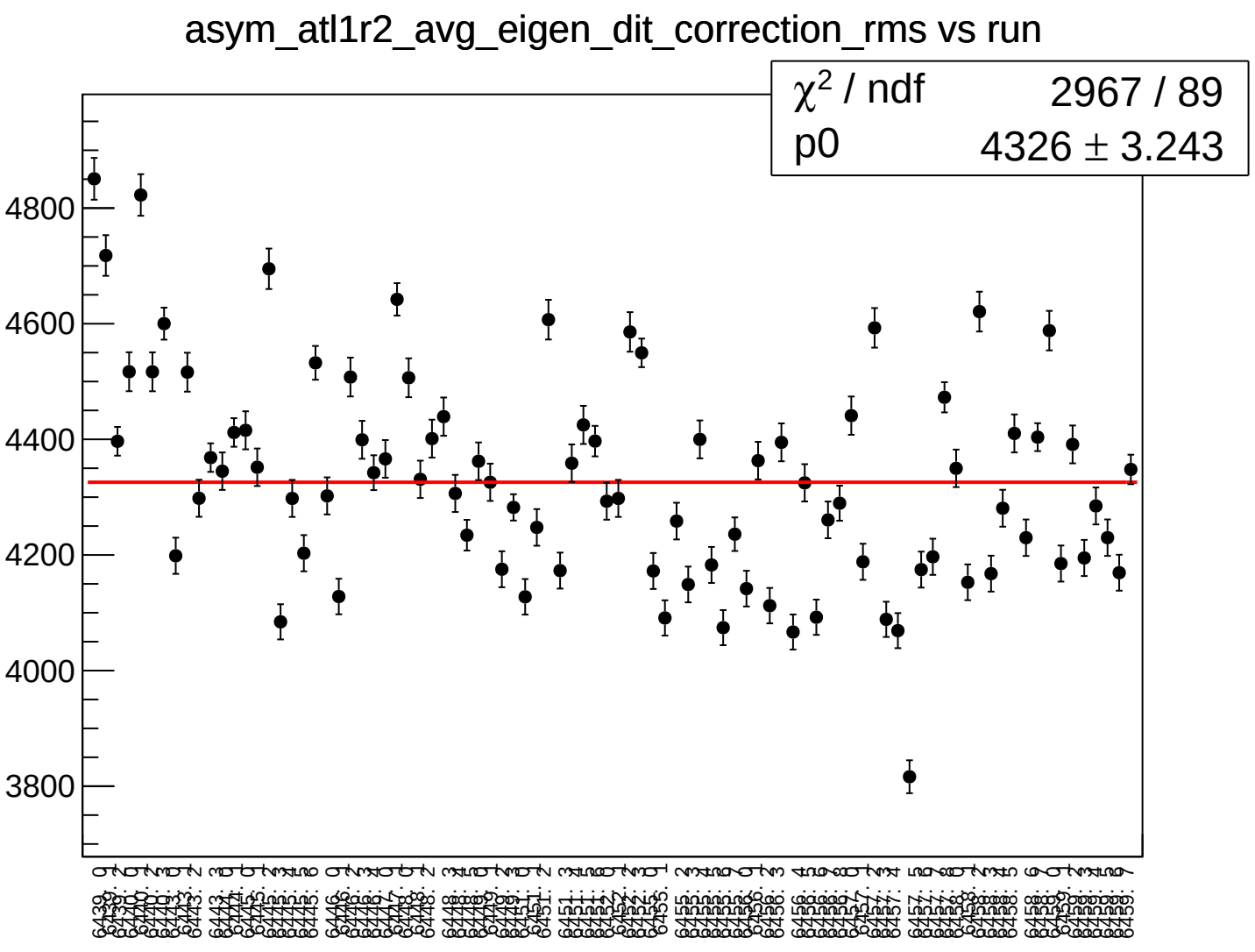

eigen_dit_asym_atl1r2_avg_mean vs run
χ² / ndf 103.5 / 89
p0 2514 ± 1878
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −680
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

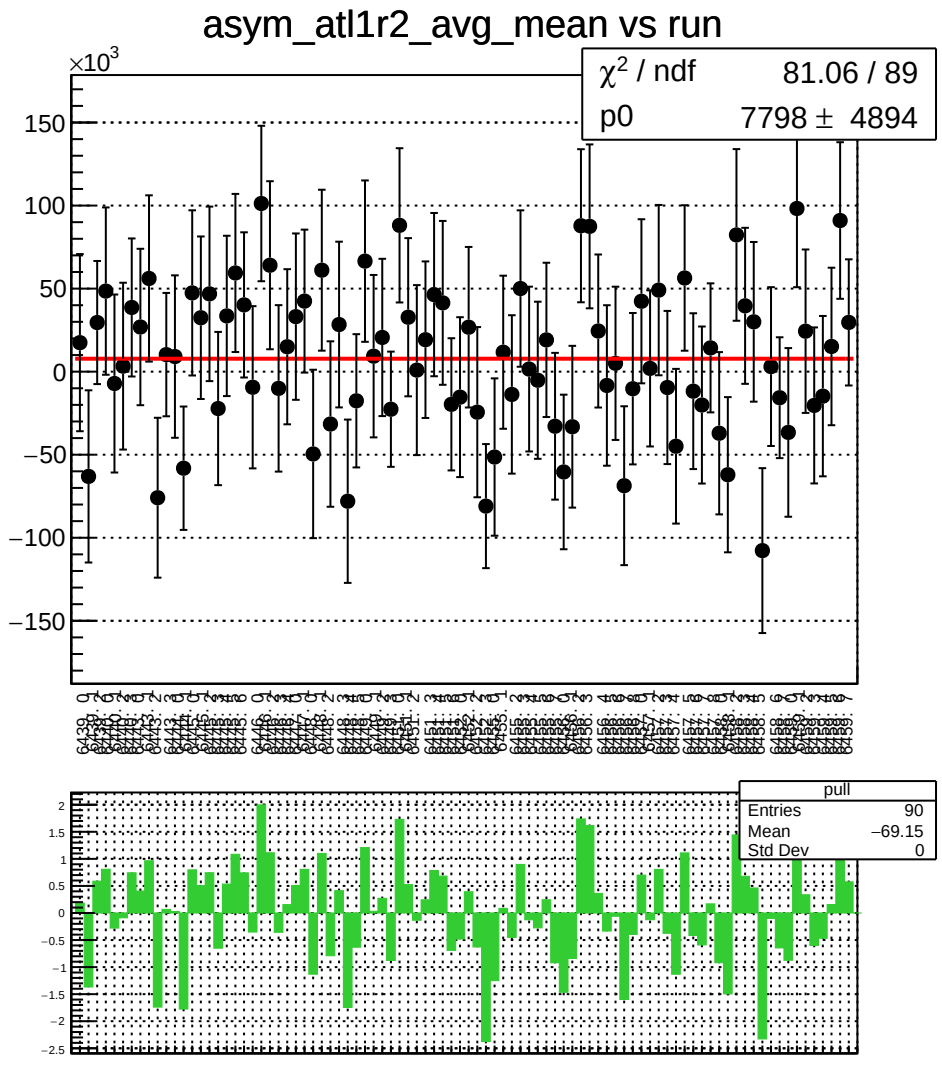

pull1D
Entries 90
Mean −0.002283
Std Dev 1.072
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

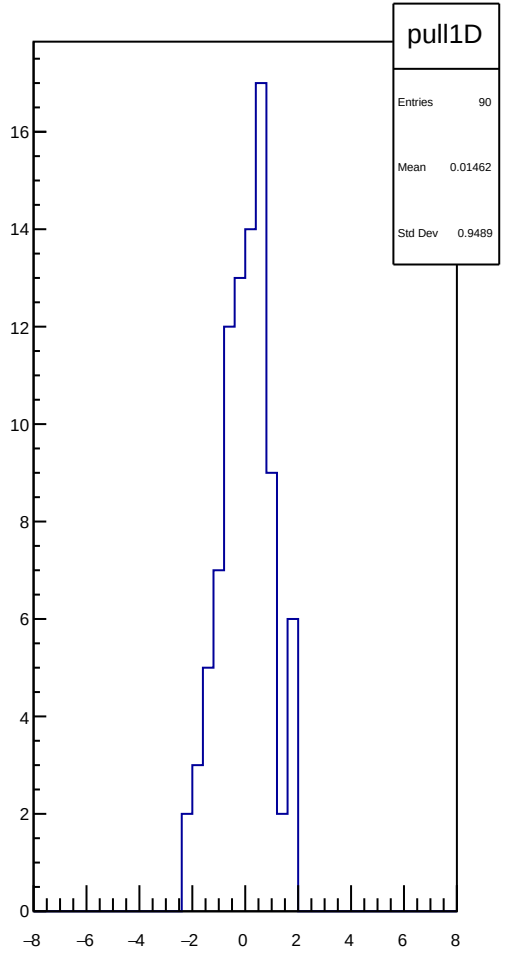

eigen_dit_asym_atl1r2_avg_rms vs run
χ^2 / ndf 223.8 / 89
p0 1772 ± 1.328
1880
1860
1840
1820
1800
1780
1760
1740
1720

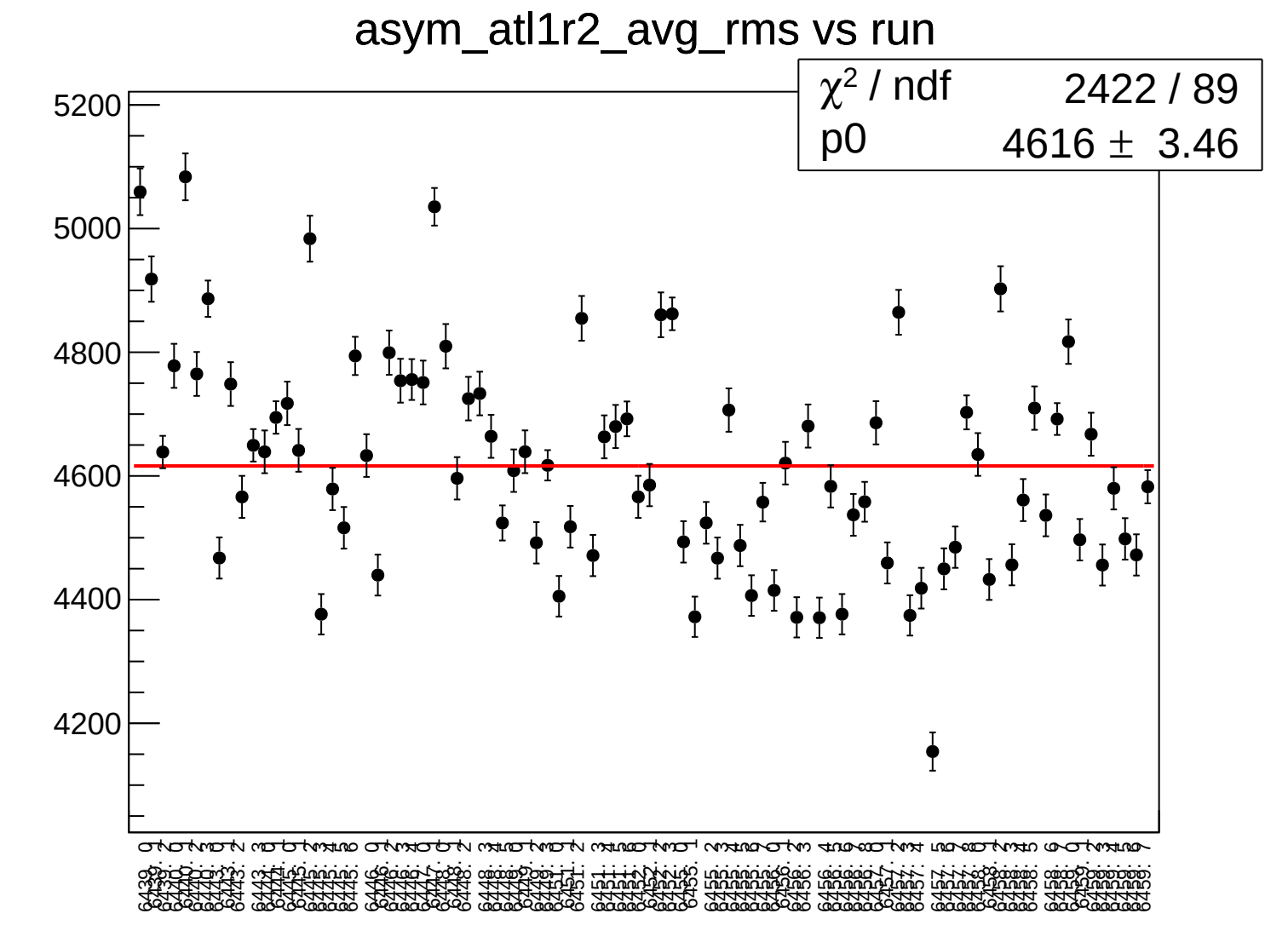

asym_atl1r2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 80.3 / 89
p0 −5120 ± 4587
100
50
0
−50
−100
−150
pull
Entries 90
Mean −89.64
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

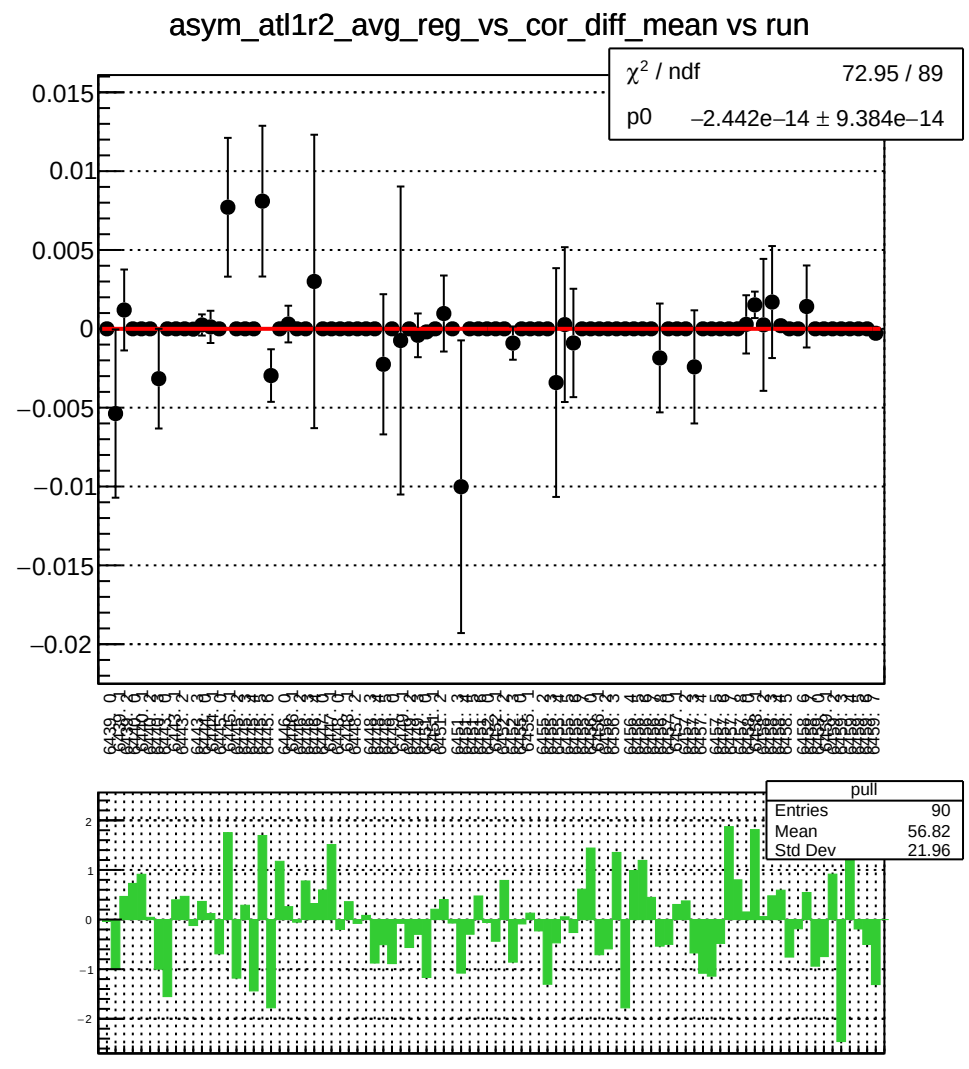

pull1D
Entries 90
Mean −0.0181
Std Dev 0.9444
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

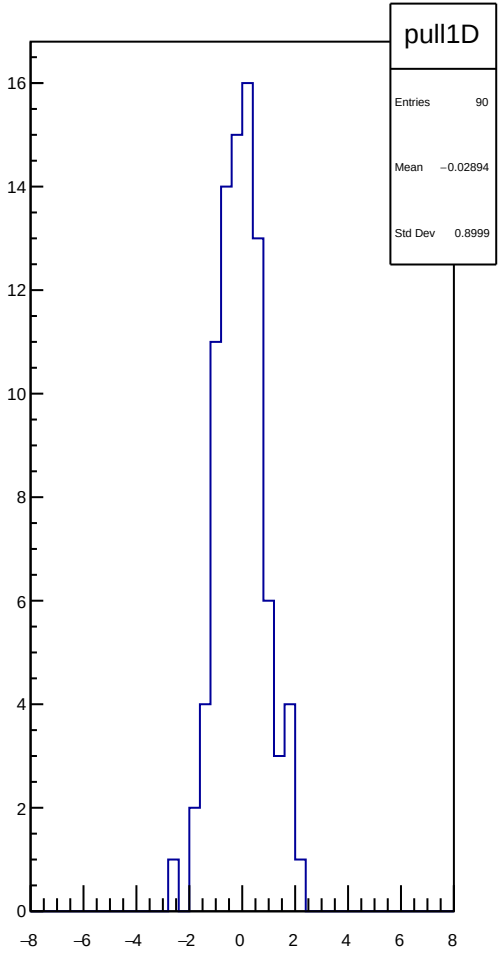

asym_atl1r2_avg_eigen_dit_correction_rms vs run
χ² / ndf 2967 / 89
p0 4326 ± 3.243
4800
4600
4400
4200
4000
3800

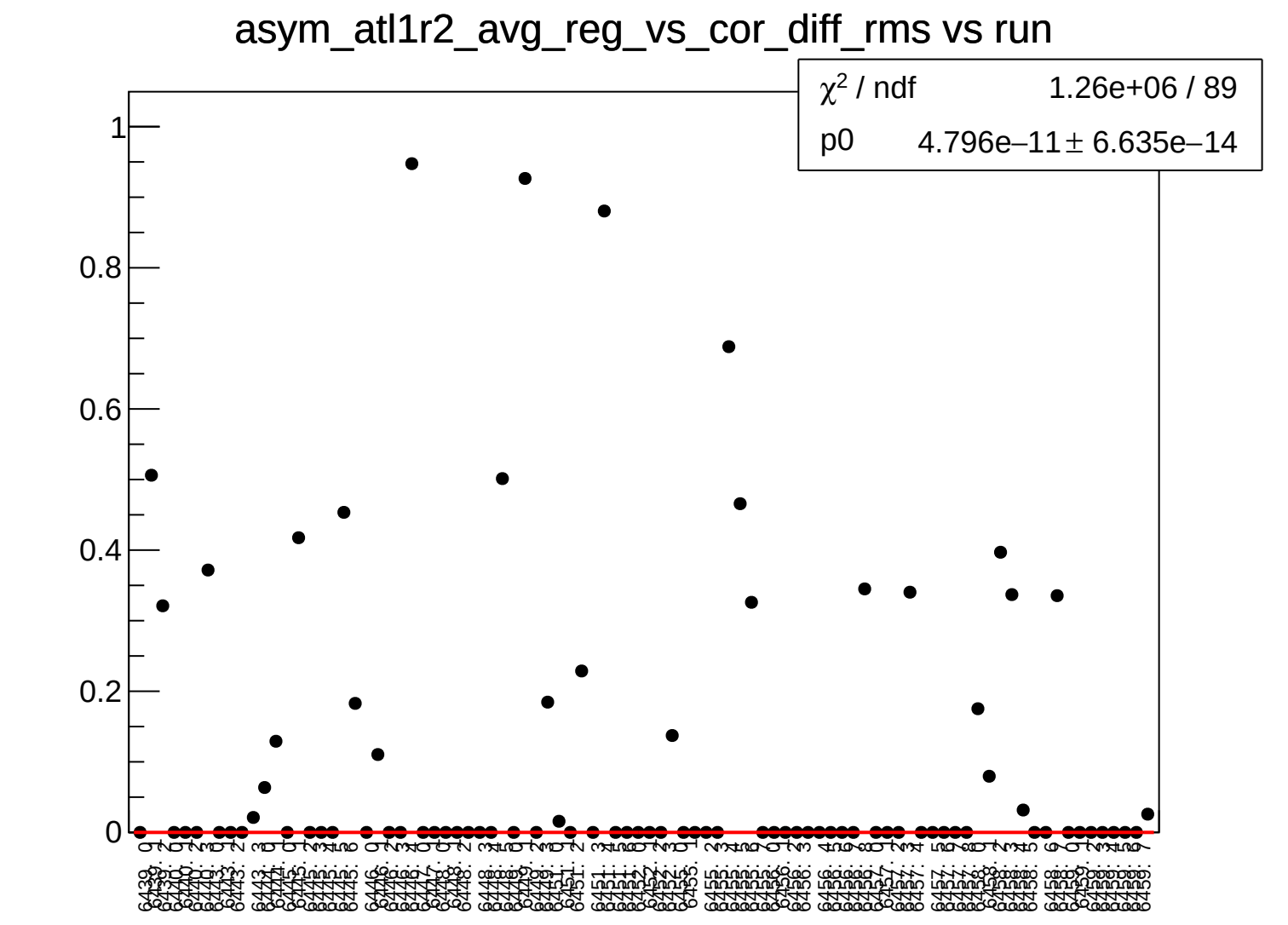

asym_atl1r2_avg_mean vs run
×10^3
χ^2 / ndf 81.06 / 89
p0 7798 ± 4894
150
100
50
0
−50
−100
−150
pull
Entries 90
Mean −69.15
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

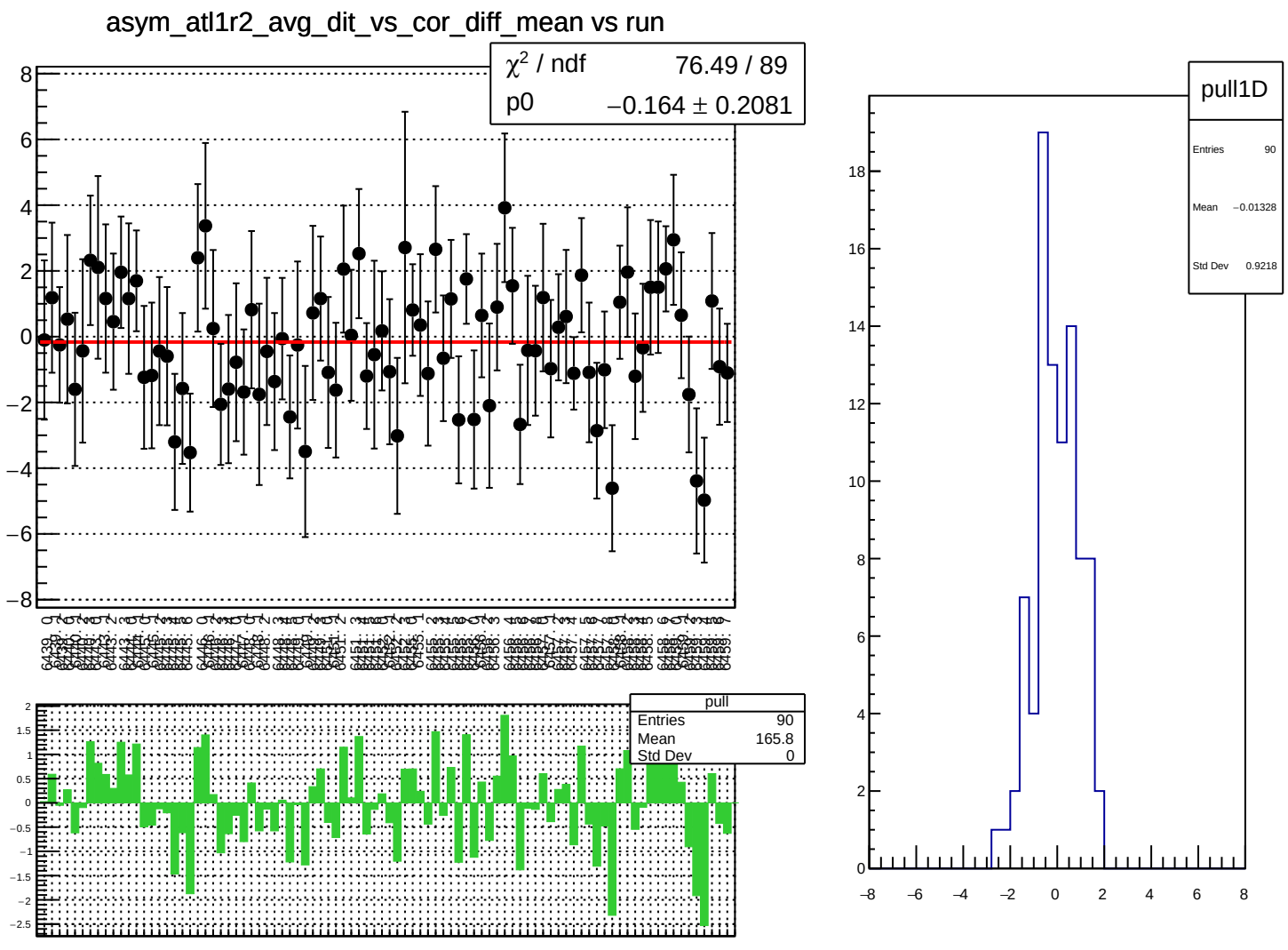

pull1D
Entries 90
Mean 0.01462
Std Dev 0.9489
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

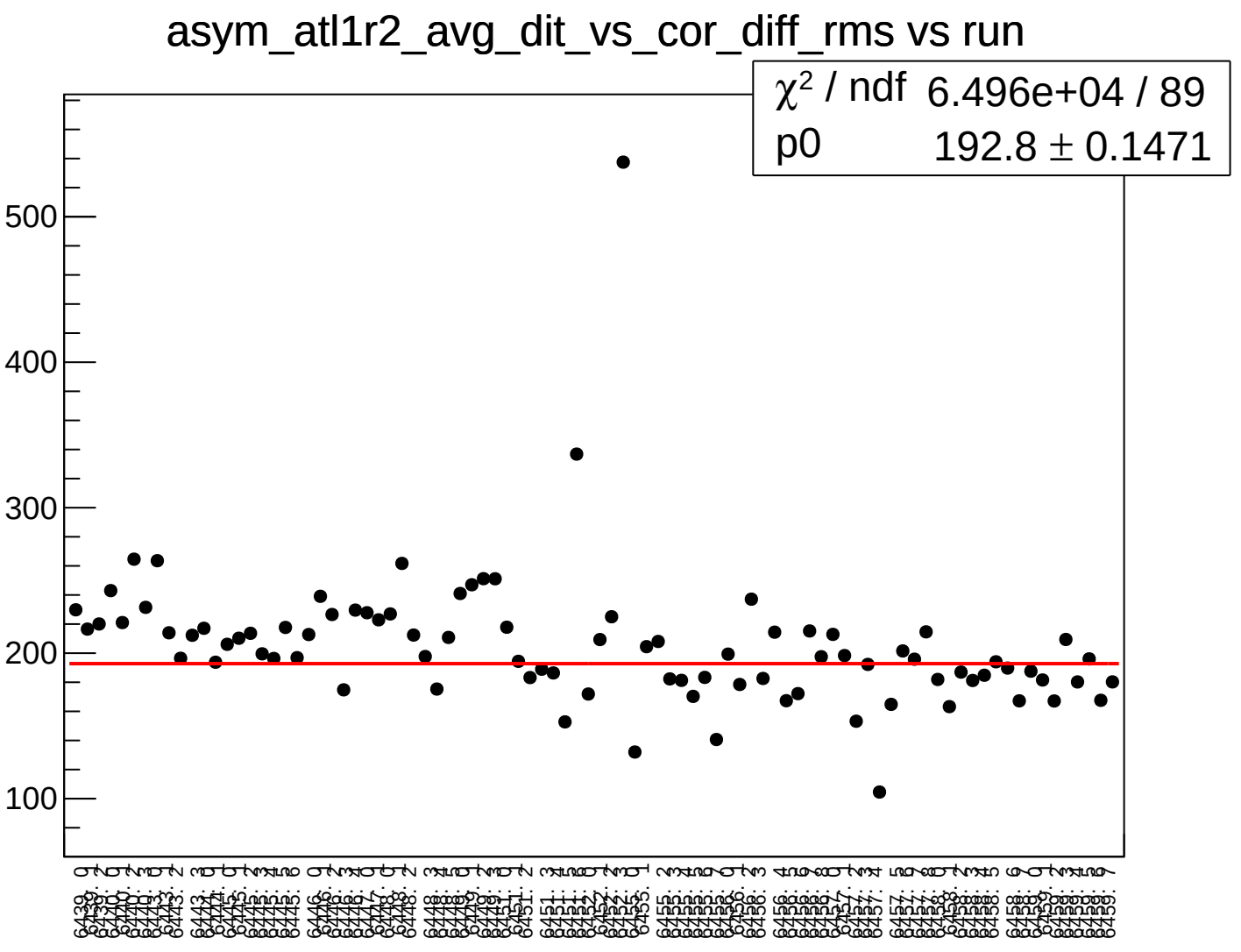

asym_atl1r2_avg_rms vs run
χ² / ndf 2422 / 89
p0 4616 ± 3.46
5200
5000
4800
4600
4400
4200

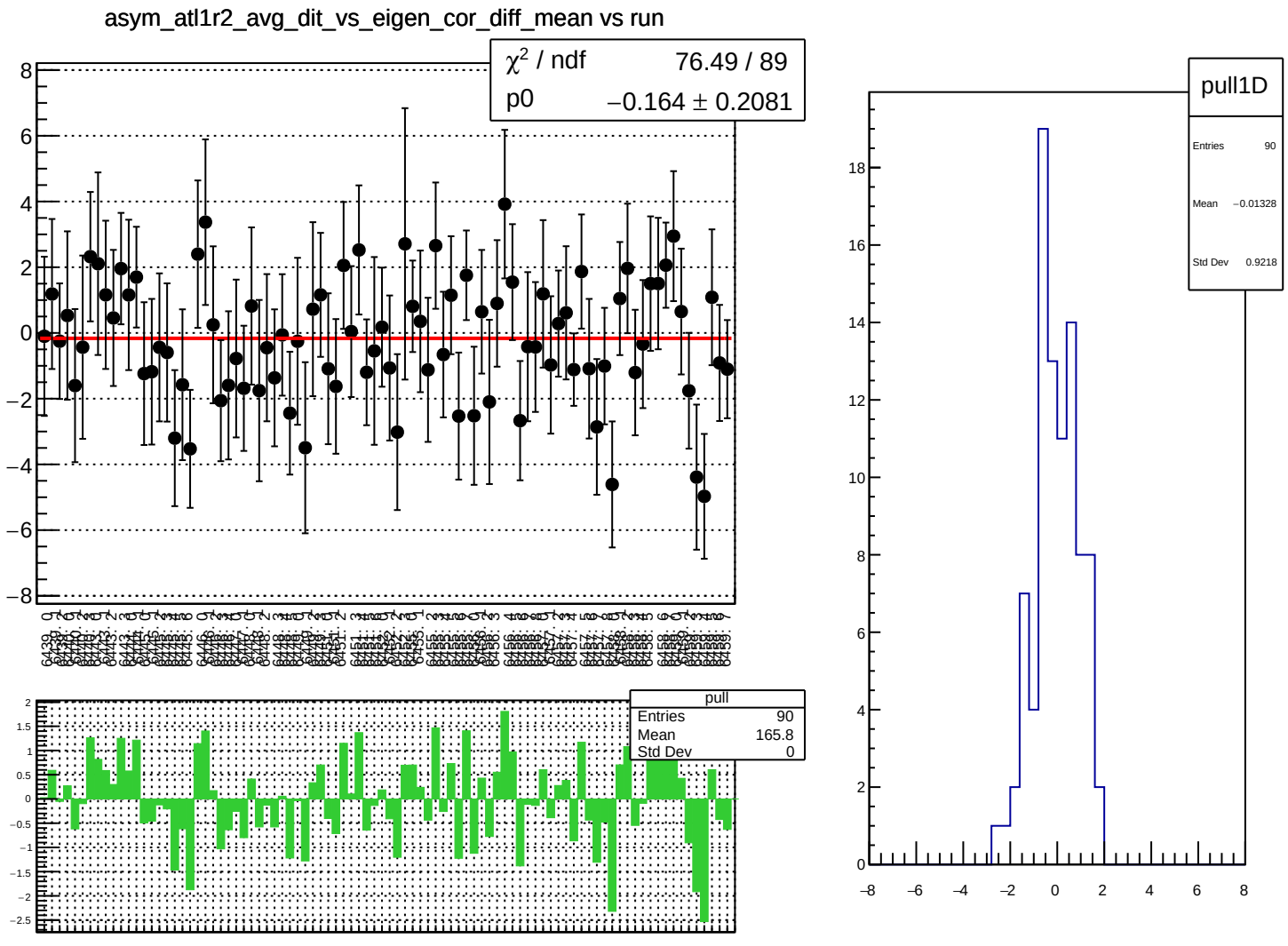

asym_atl1r2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 72.95 / 89
p0 −2.442e−14 ± 9.384e−14
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 90
Mean 56.82
Std Dev 21.96
2
1
0
−1
−2

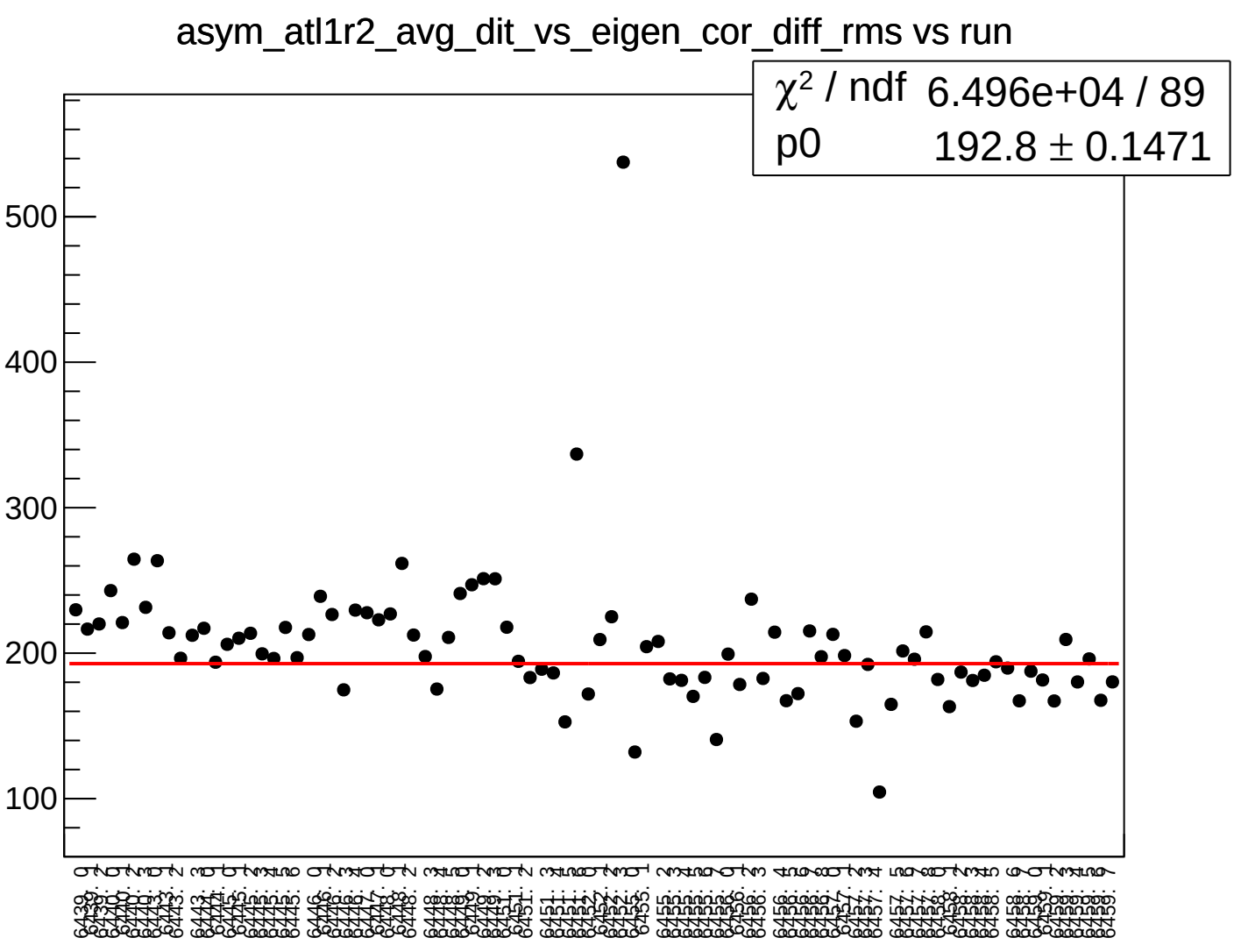

pull1D
Entries 90
Mean −0.02894
Std Dev 0.8999
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

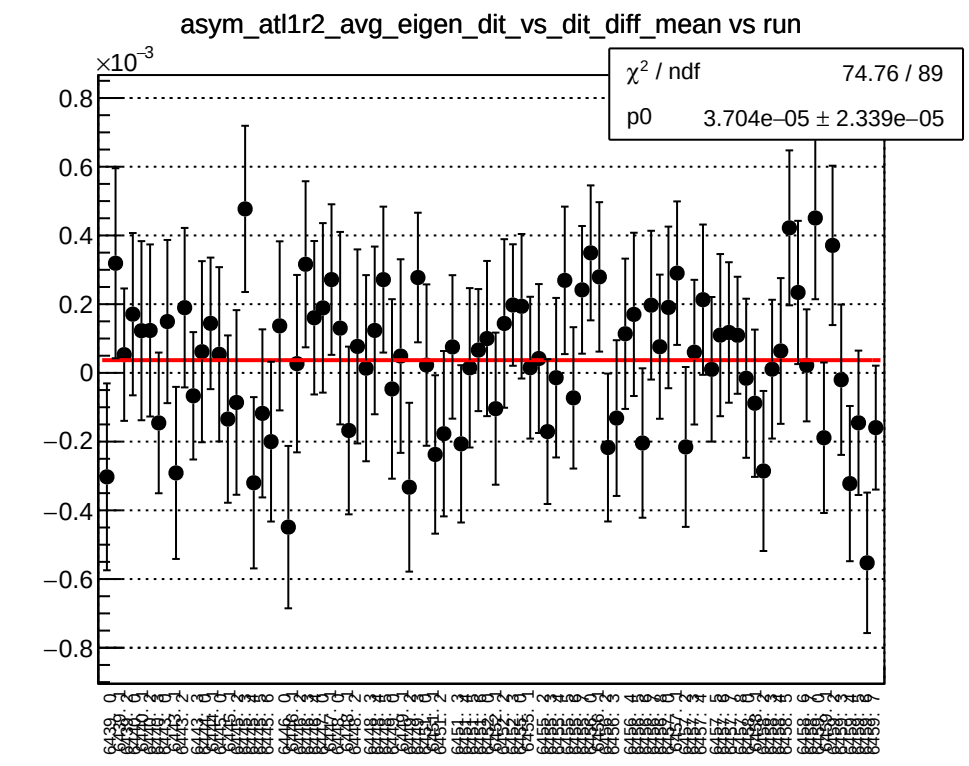

asym_atl1r2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.26e+06 / 89
p0 4.796e−11 ± 6.635e−14
1
0.8
0.6
0.4
0.2
0

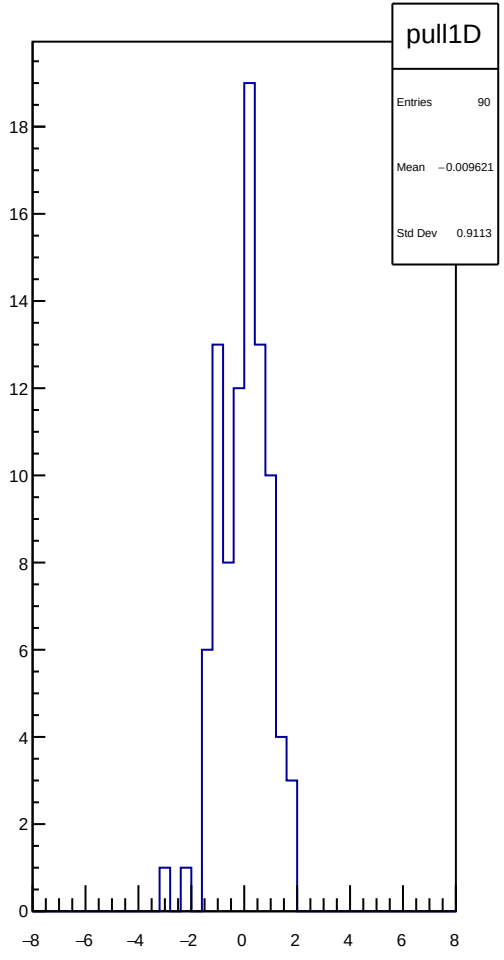

asym_atl1r2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 76.49 / 89
p0 −0.164 ± 0.2081
pull
Entries 90
Mean 165.8
Std Dev 0
pull1D
Entries 90
Mean −0.01328
Std Dev 0.9218

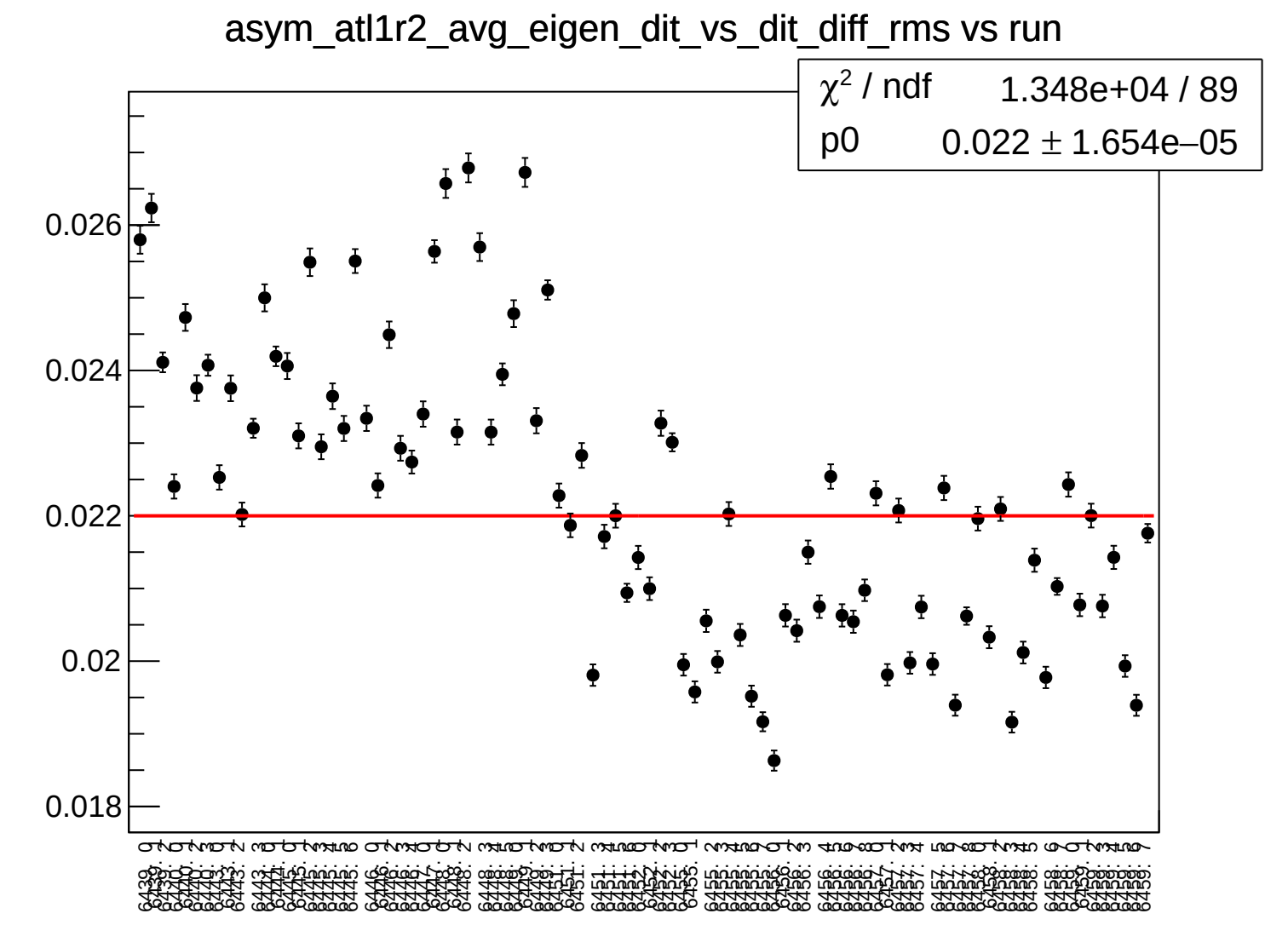

asym_atl1r2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.496e+04 / 89
p0 192.8 ± 0.1471
500
400
300
200
100

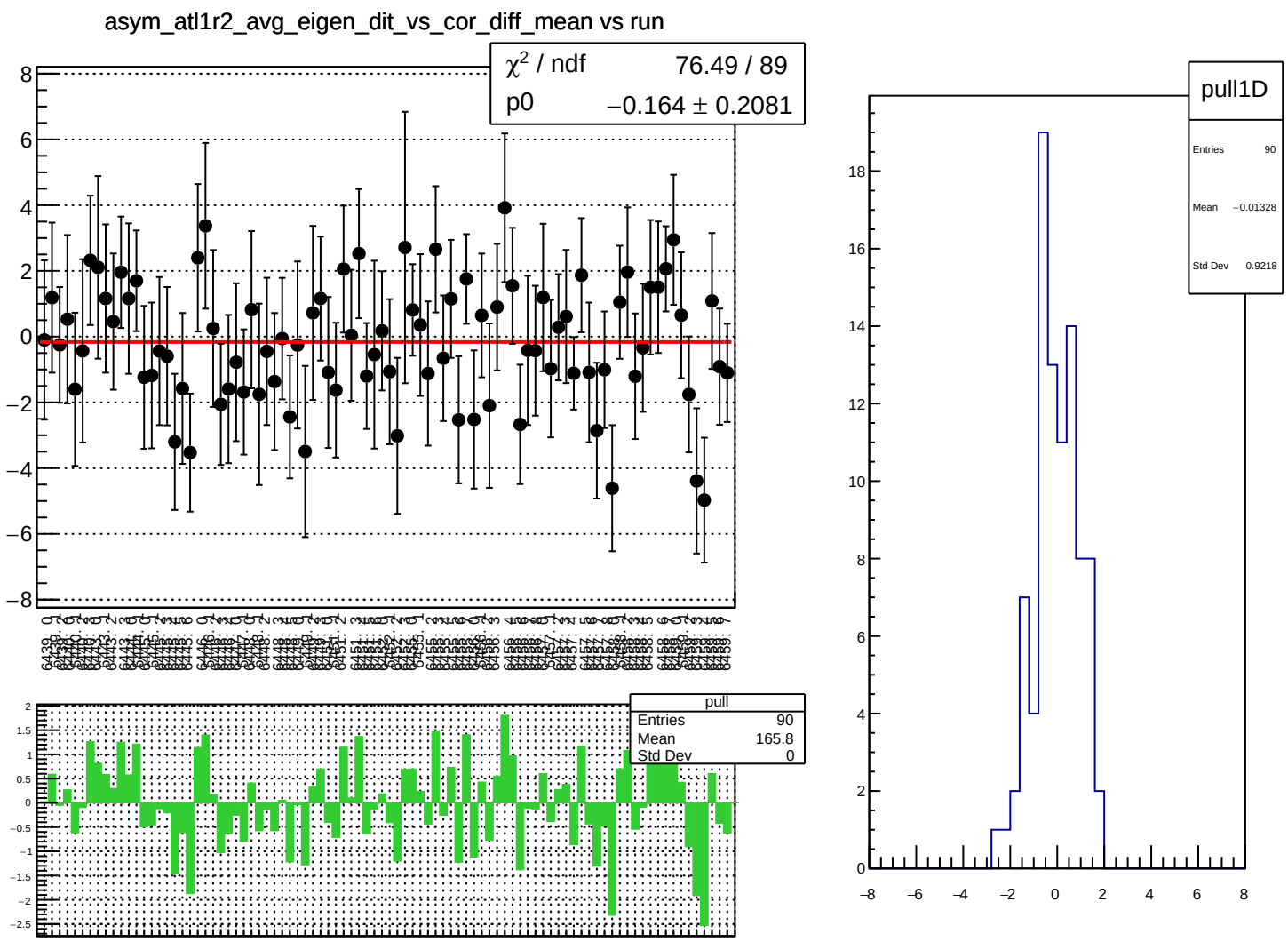

asym_atl1r2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.49 / 89
p0 −0.164 ± 0.2081
pull
Entries 90
Mean 165.8
Std Dev 0
pull1D
Entries 90
Mean −0.01328
Std Dev 0.9218

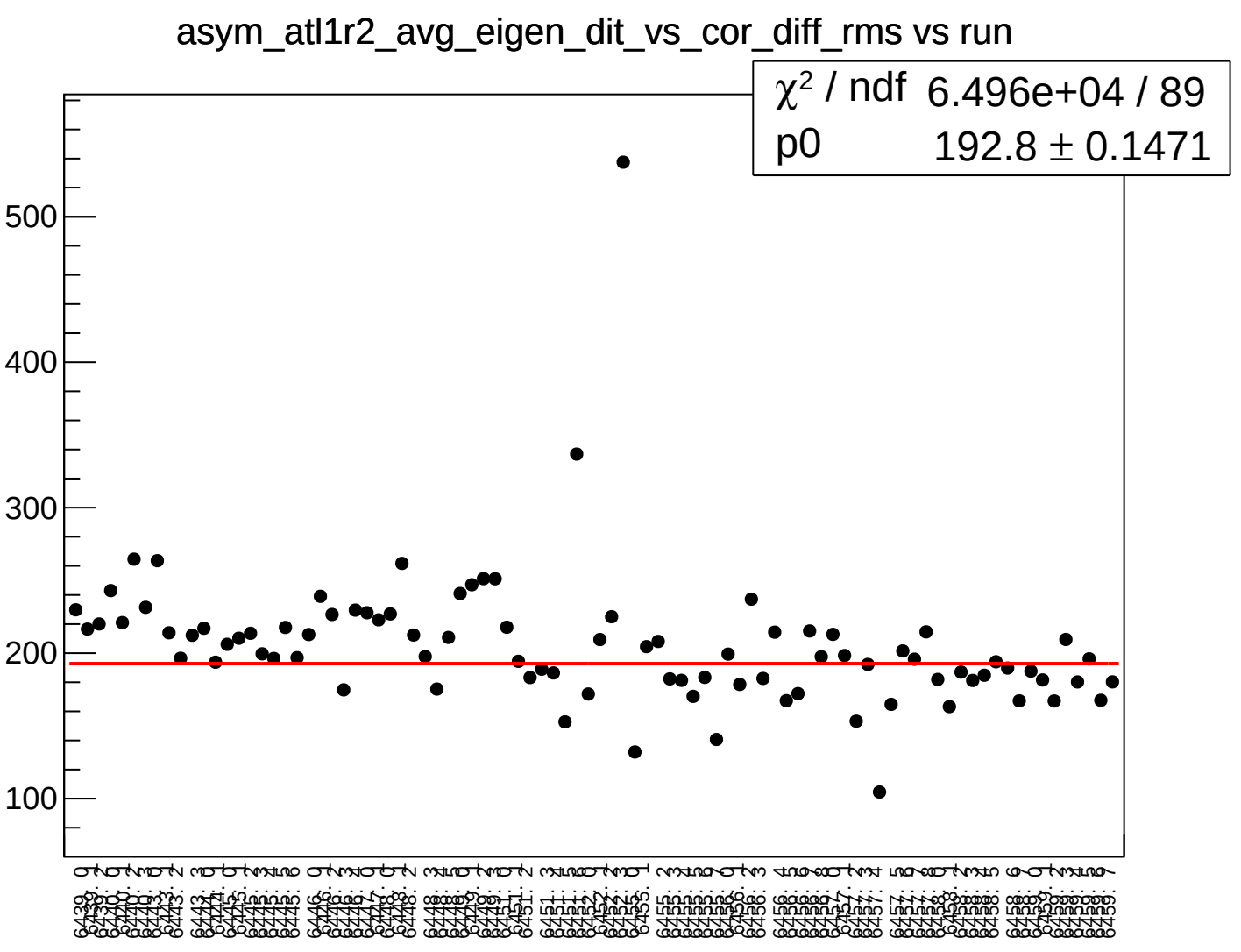

asym_atl1r2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.496e+04 / 89
p0 192.8 ± 0.1471
500
400
300
200
100

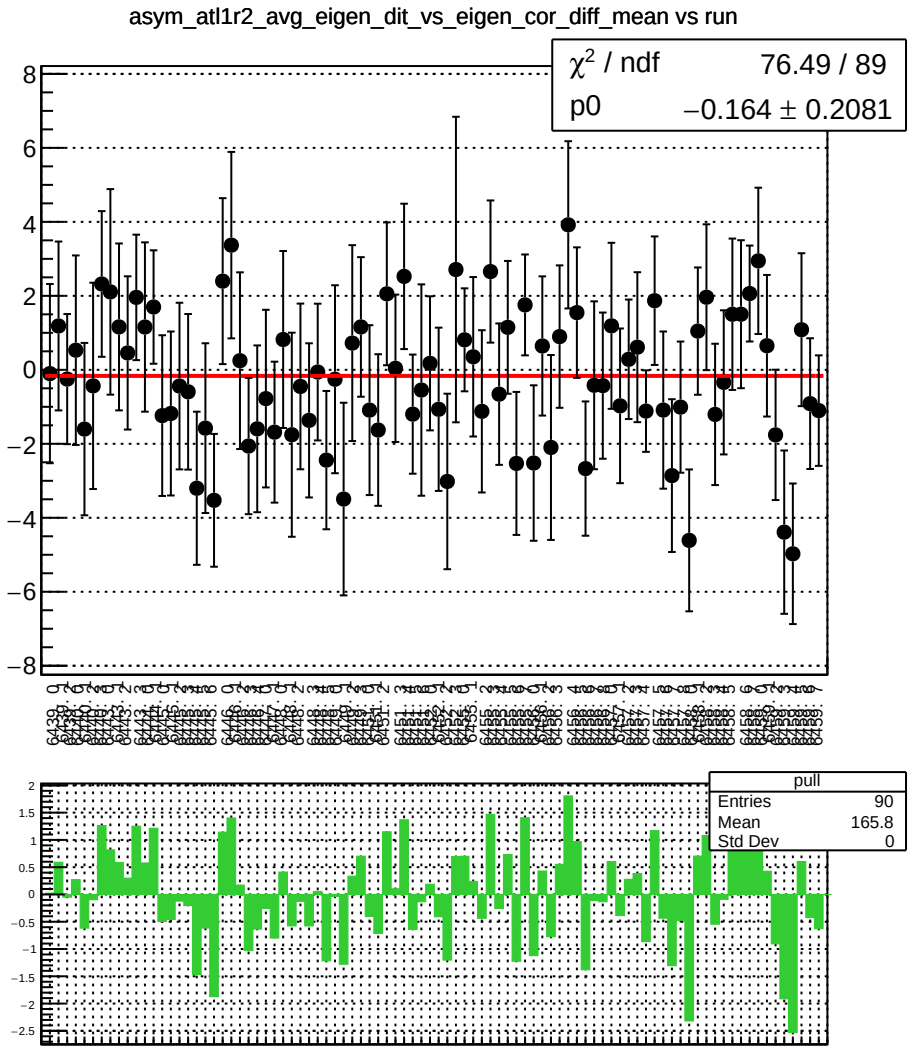

asym_atl1r2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 74.76 / 89
p0 3.704e−05 ± 2.339e−05
pull
Entries 90
Mean 98.21
Std Dev 75.57

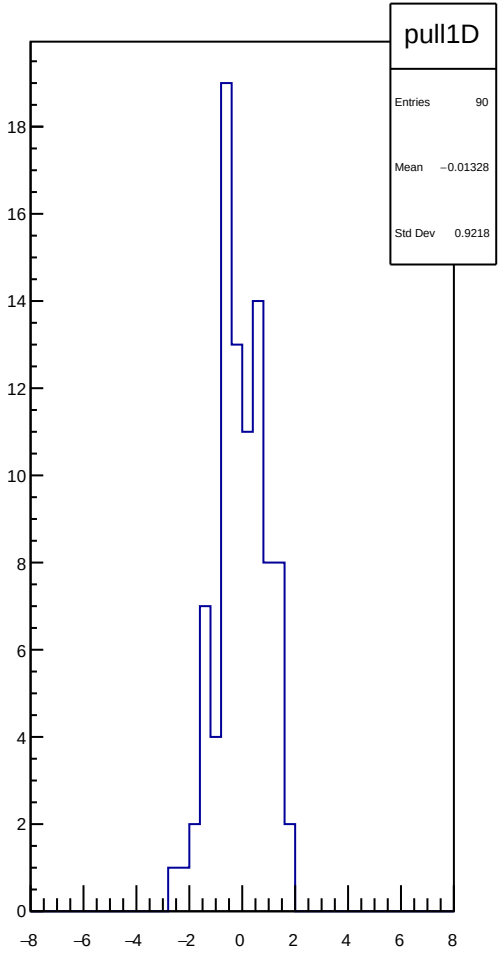

pull1D
Entries 90
Mean −0.009621
Std Dev 0.9113

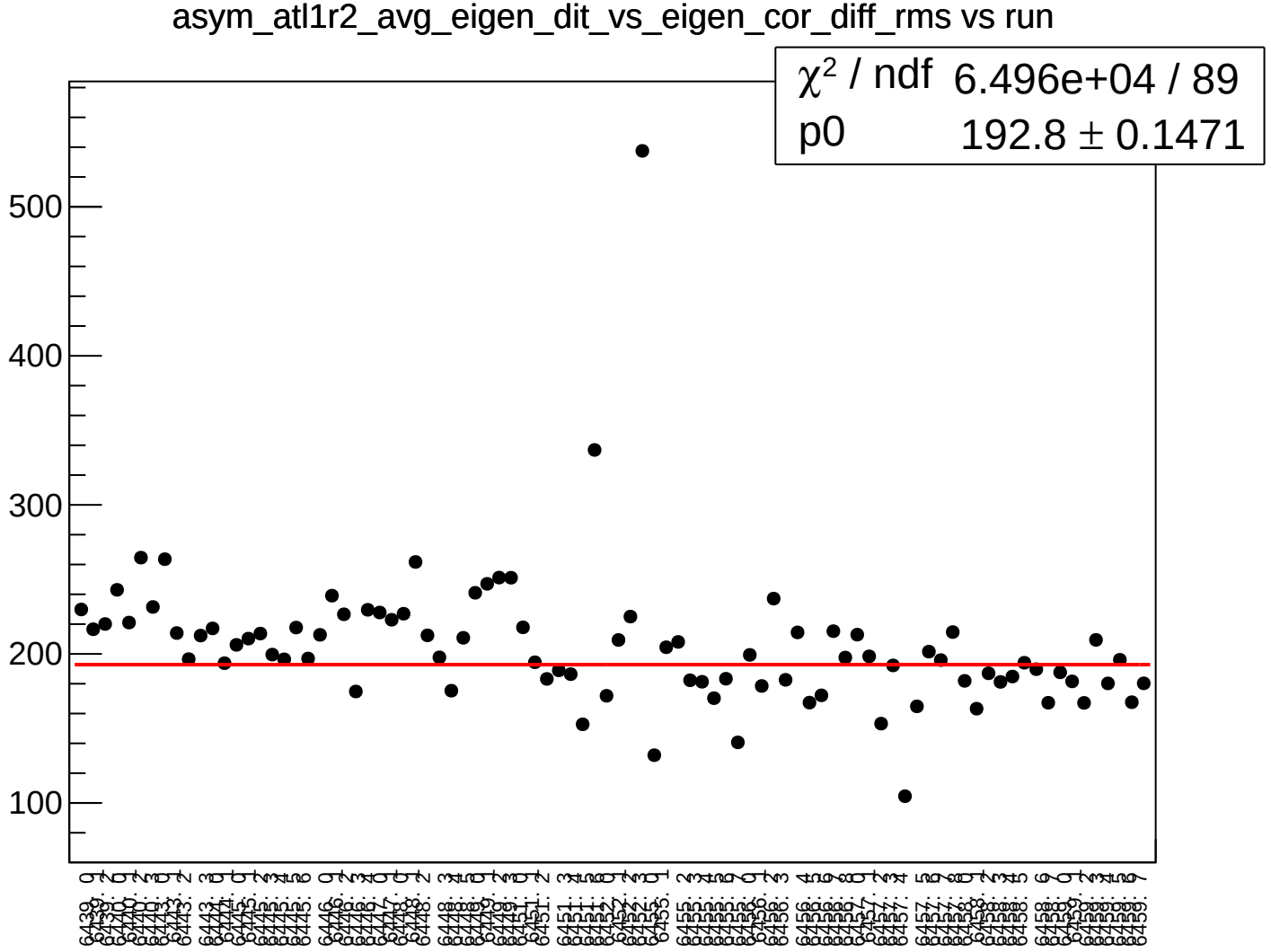

asym_atl1r2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.348e+04 / 89
p0 0.022 ± 1.654e−05
0.026
0.024
0.022
0.02
0.018

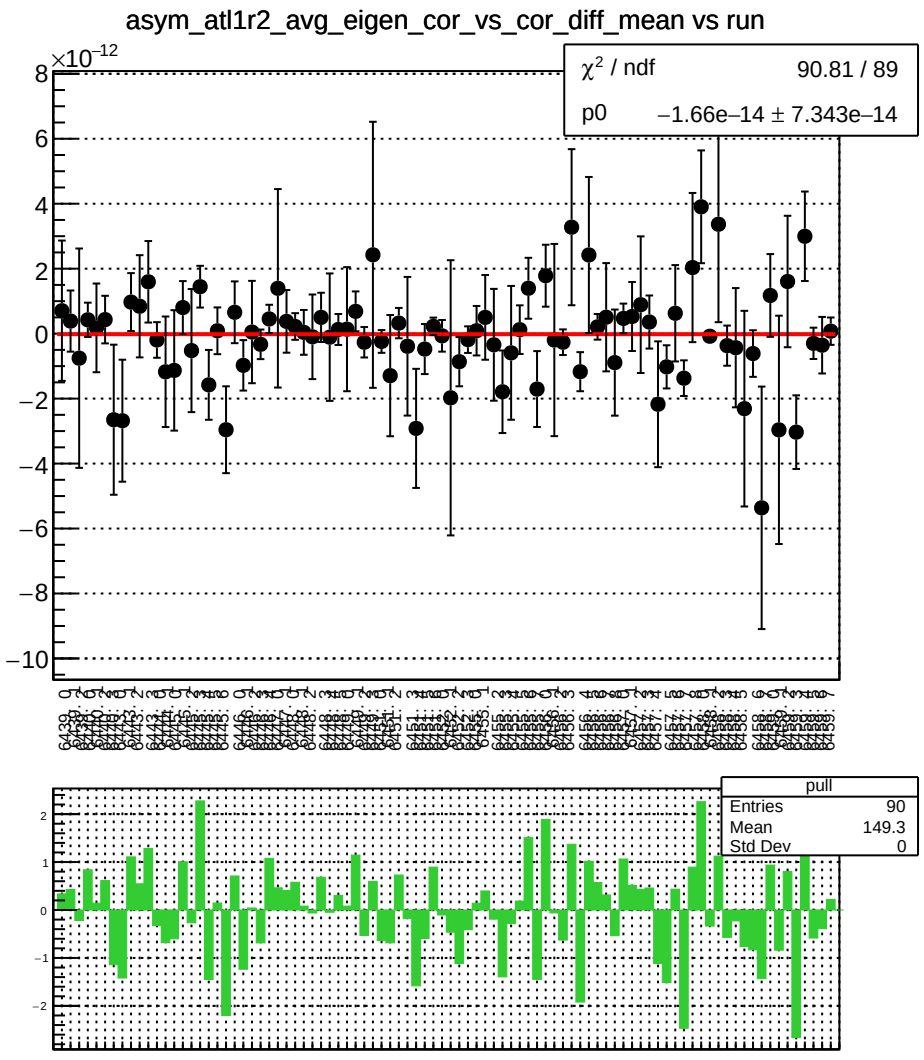

asym_atl1r2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.49 / 89
p0 −0.164 ± 0.2081
pull
Entries 90
Mean 165.8
Std Dev 0
pull1D
Entries 90
Mean −0.01328
Std Dev 0.9218

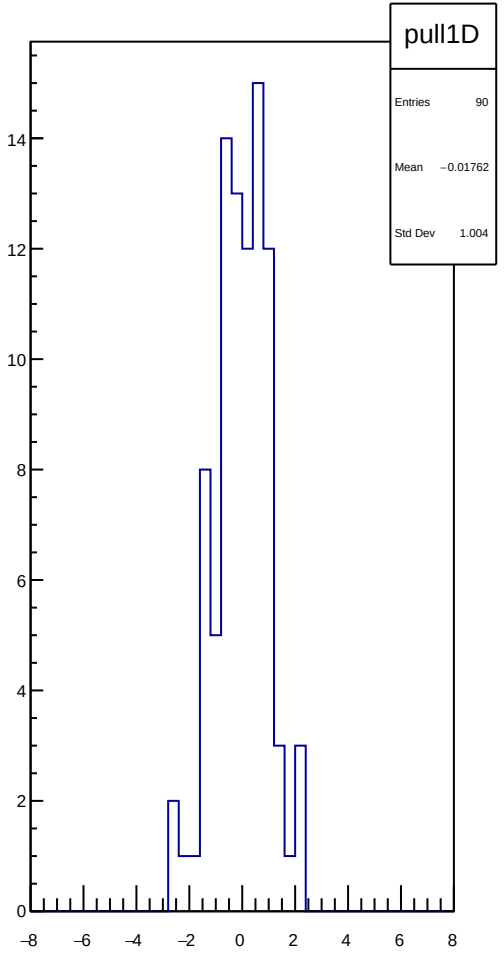

asym_atl1r2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.496e+04 / 89
p0 192.8 ± 0.1471
500
400
300
200
100

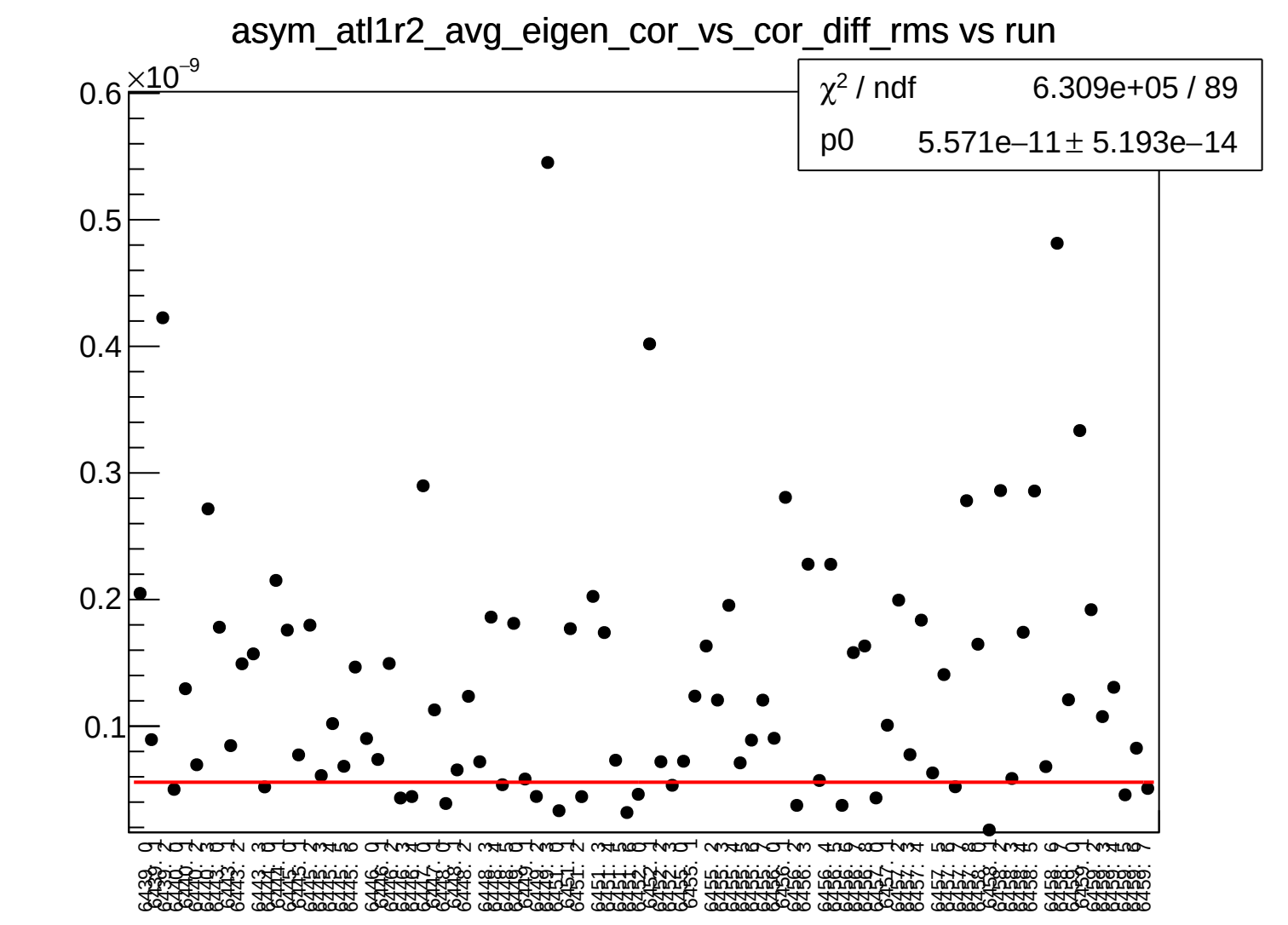

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.49 / 89
p0 −0.164 ± 0.2081
pull
Entries 90
Mean 165.8
Std Dev 0

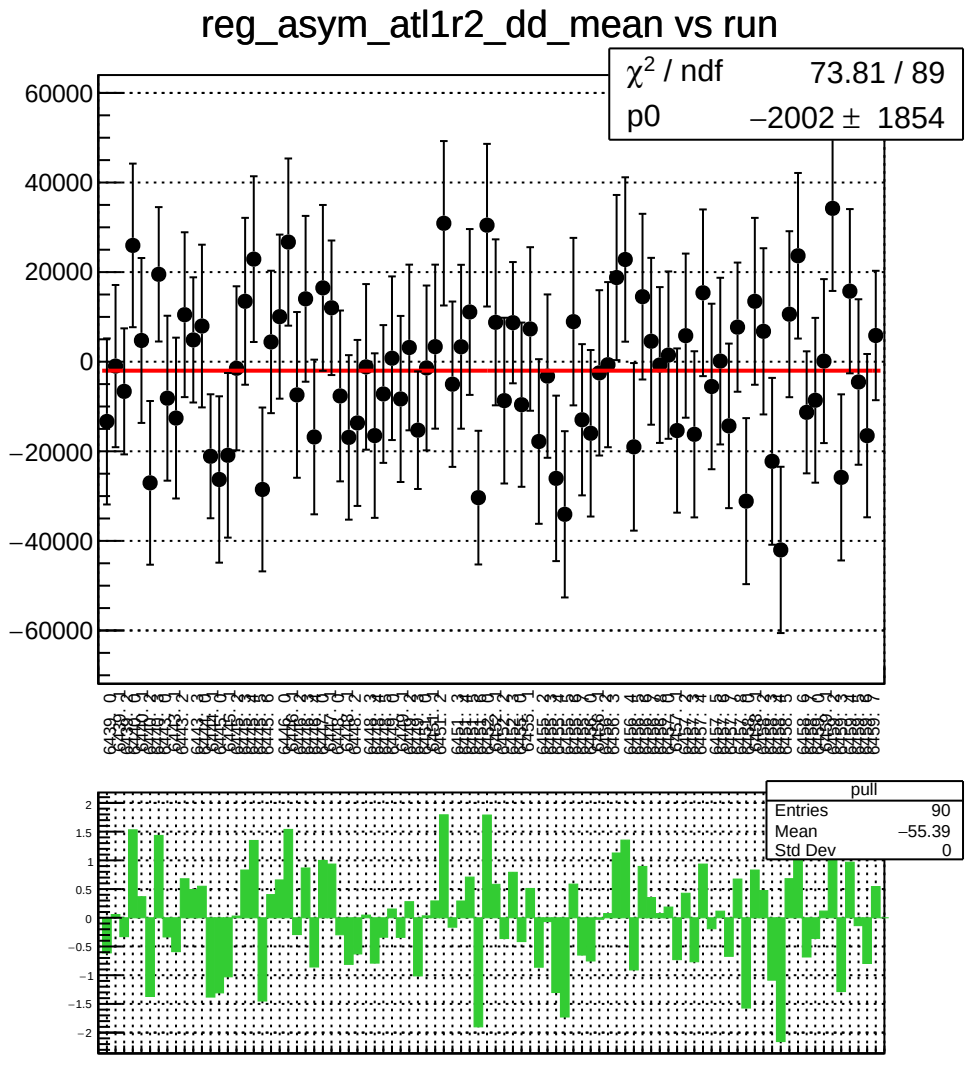

pull1D
Entries 90
Mean −0.01328
Std Dev 0.9218

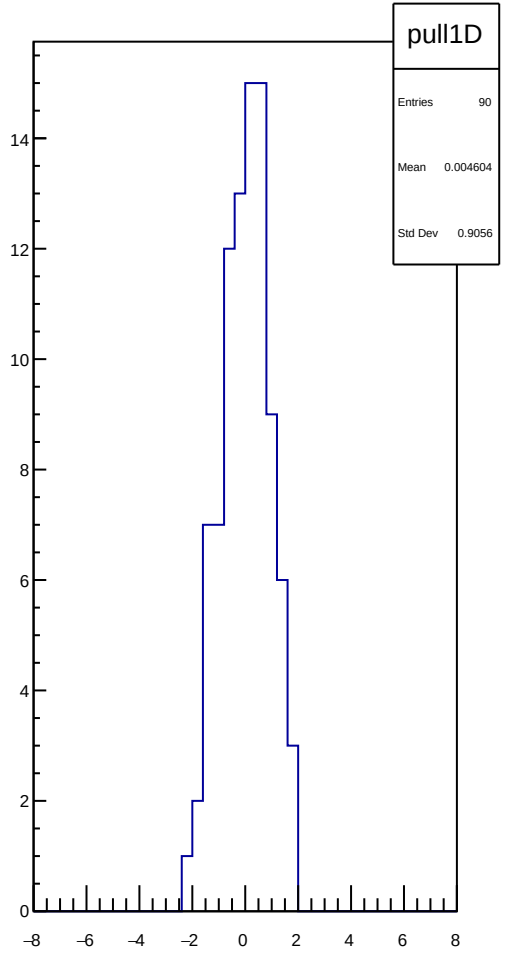

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.496e+04 / 89
p0 192.8 ± 0.1471
500
400
300
200
100

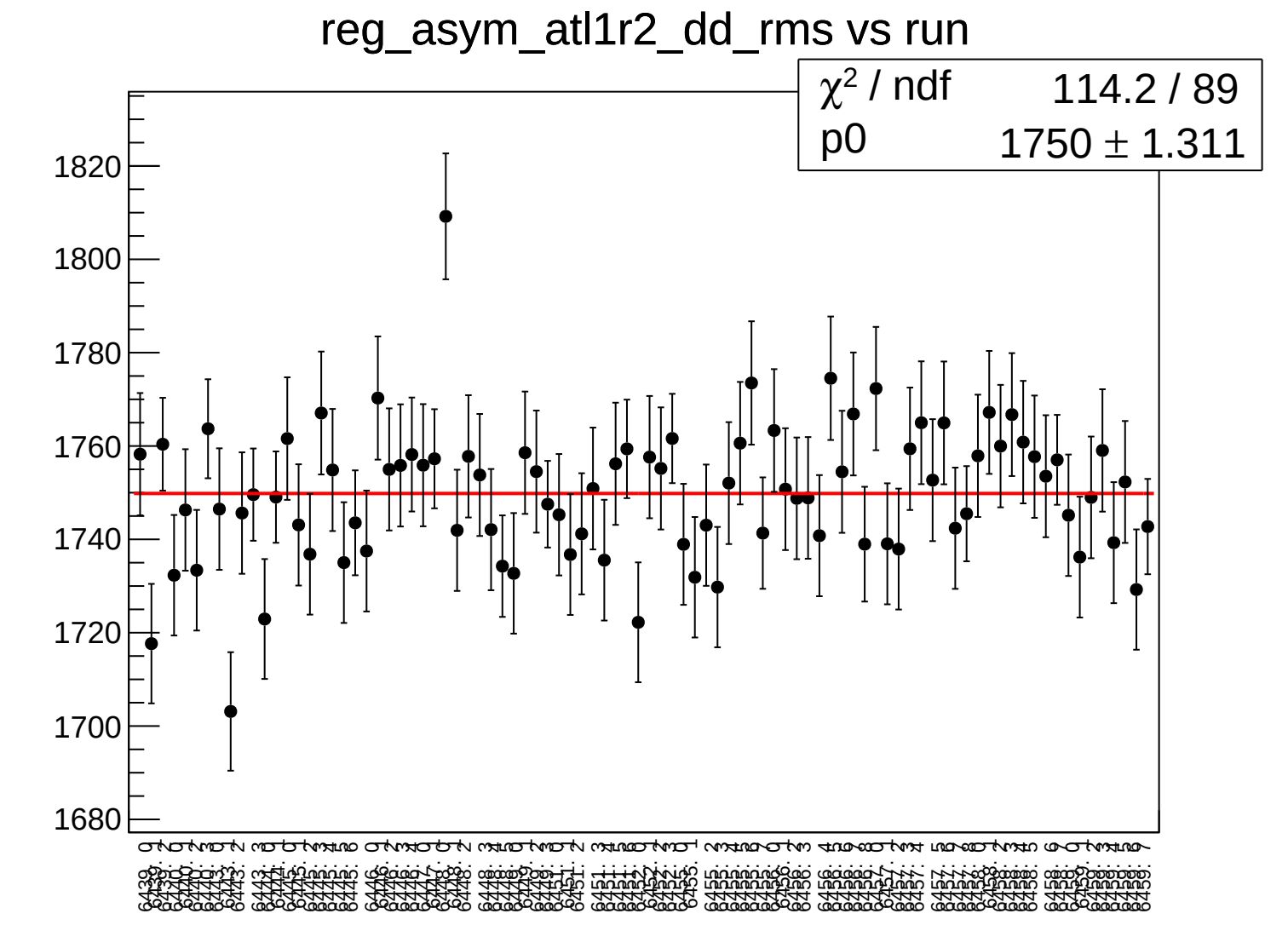

asym_atl1r2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.81 / 89
p0 −1.66e−14 ± 7.343e−14
pull
Entries 90
Mean 149.3
Std Dev 0

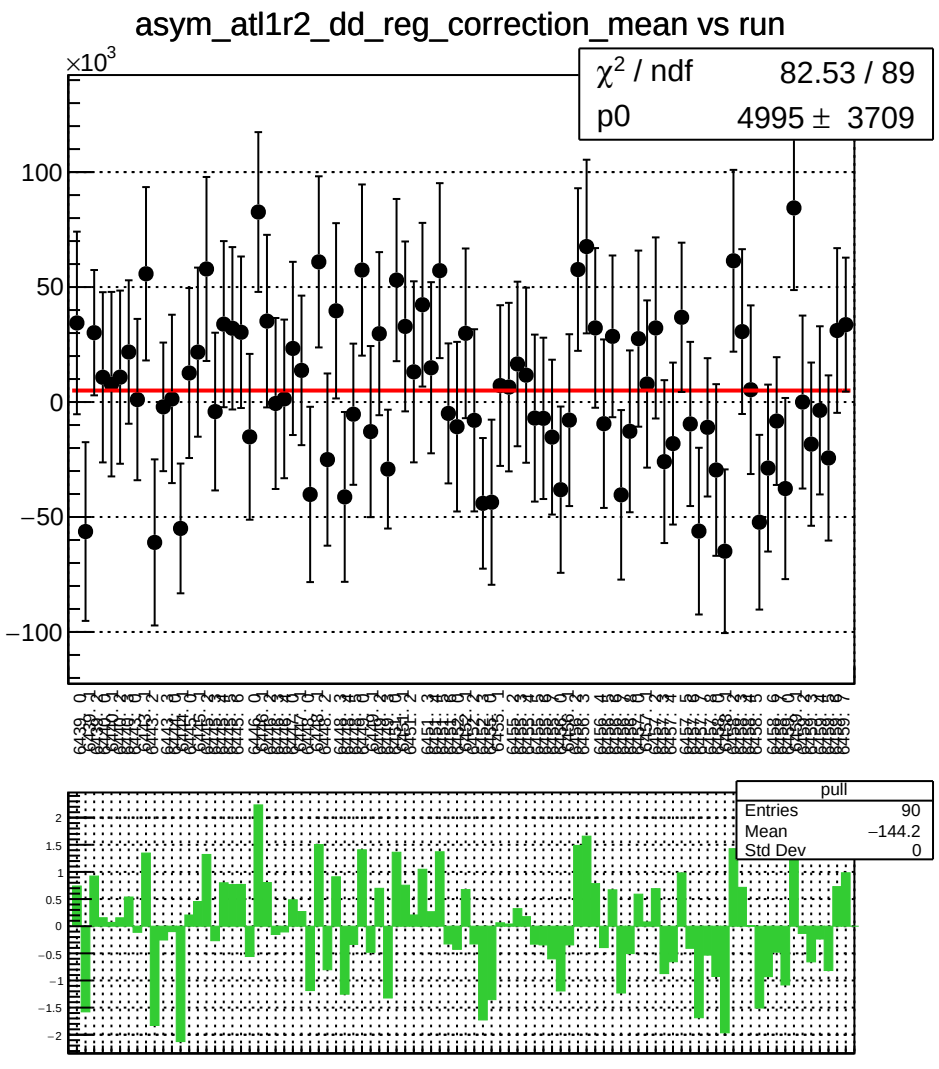

pull1D
Entries 90
Mean −0.01762
Std Dev 1.004

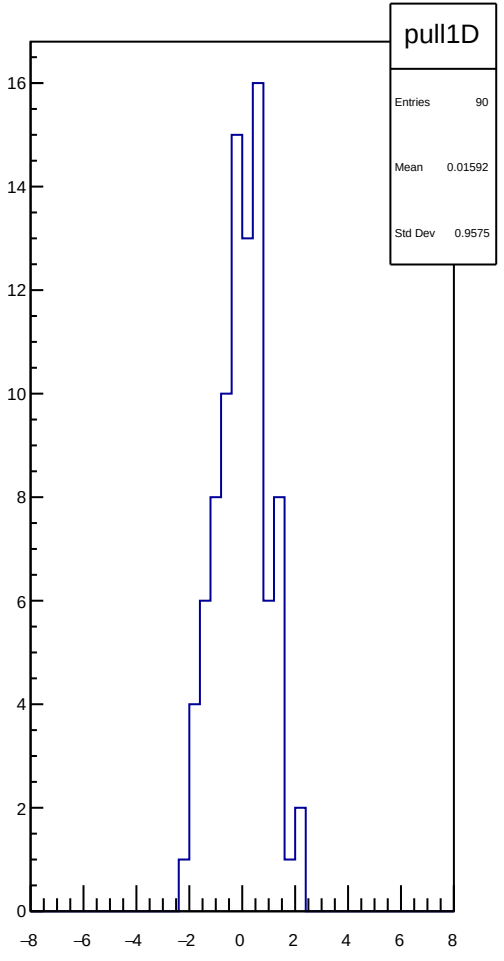

asym_atl1r2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.6
0.5
0.4
0.3
0.2
0.1
χ² / ndf 6.309e+05 / 89
p0 5.571e−11 ± 5.193e−14

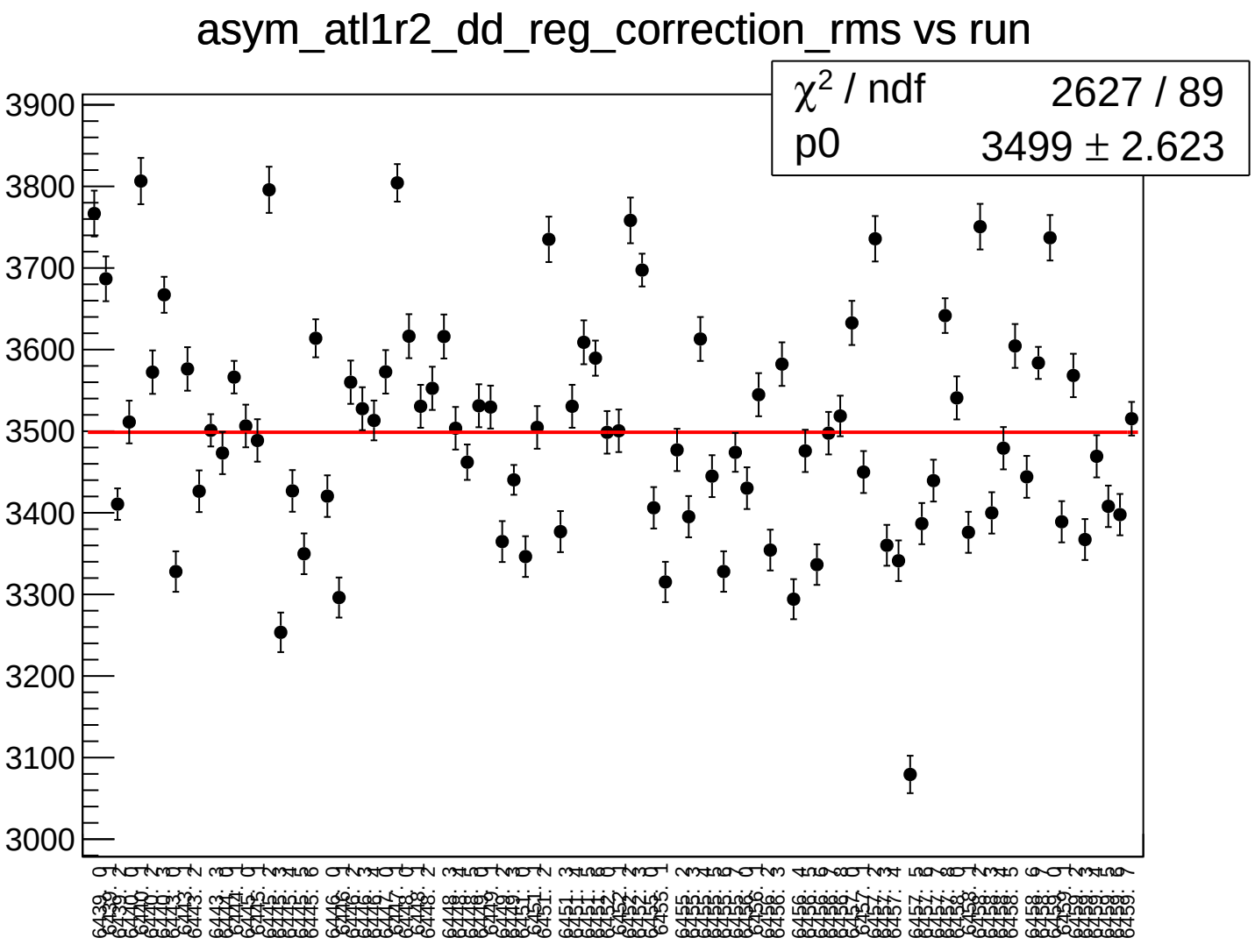

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 73.81 / 89
p0 −2002 ± 1854
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −55.39
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

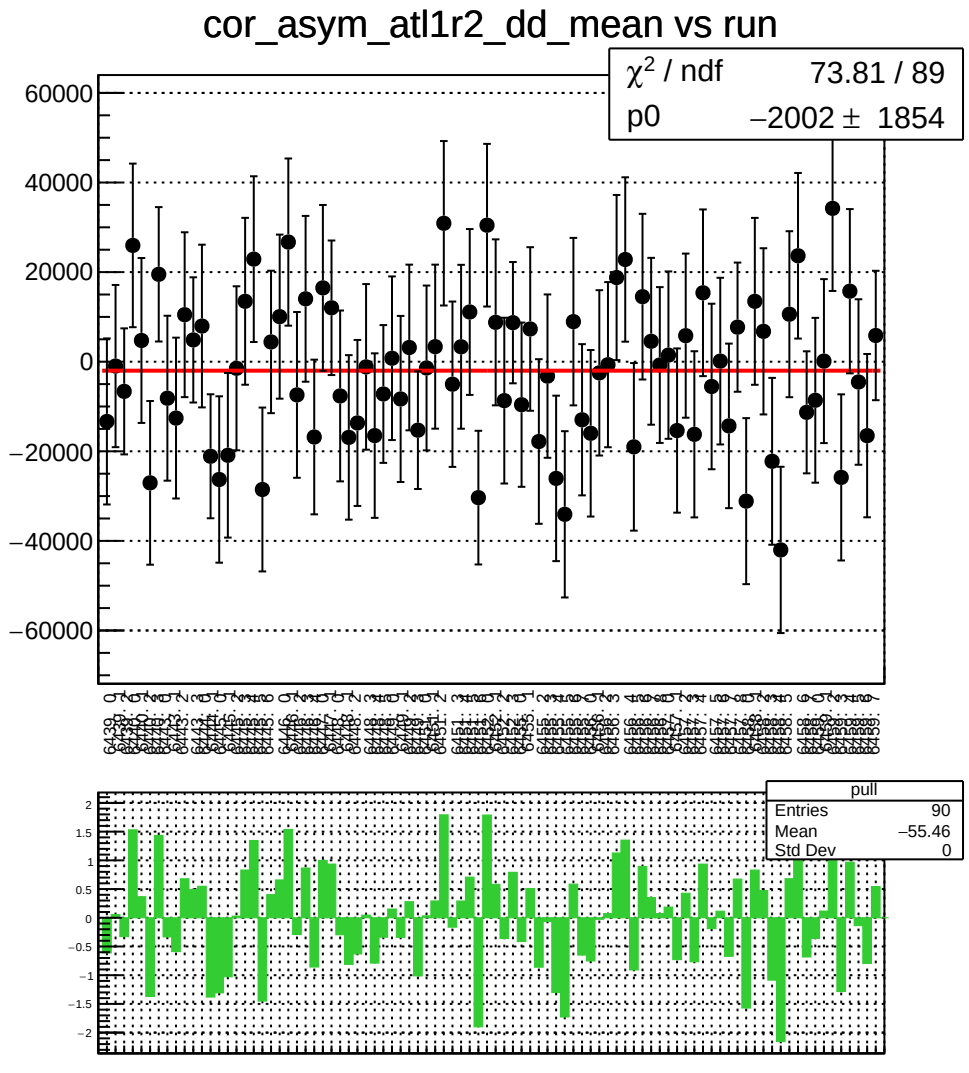

pull1D
Entries 90
Mean 0.004604
Std Dev 0.9056
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

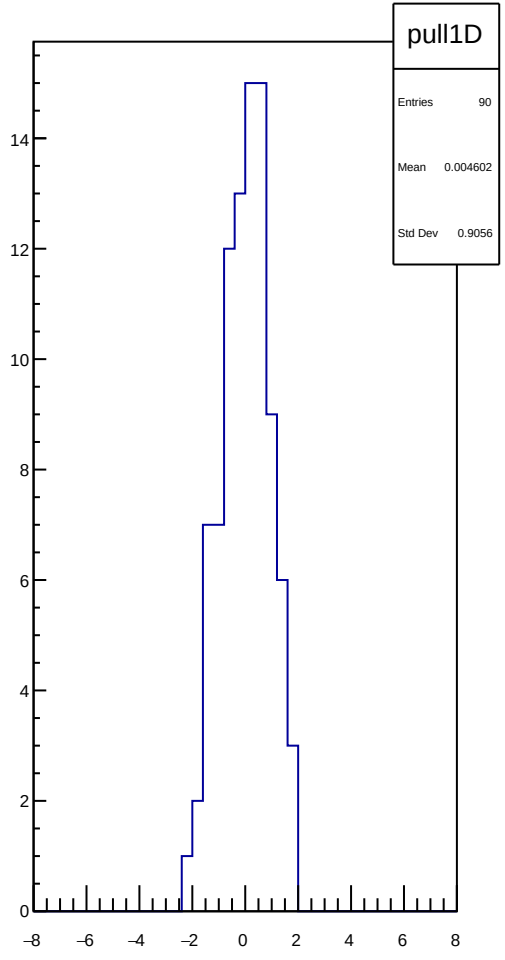

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 114.2 / 89
p0 1750 ± 1.311
1820
1800
1780
1760
1740
1720
1700
1680

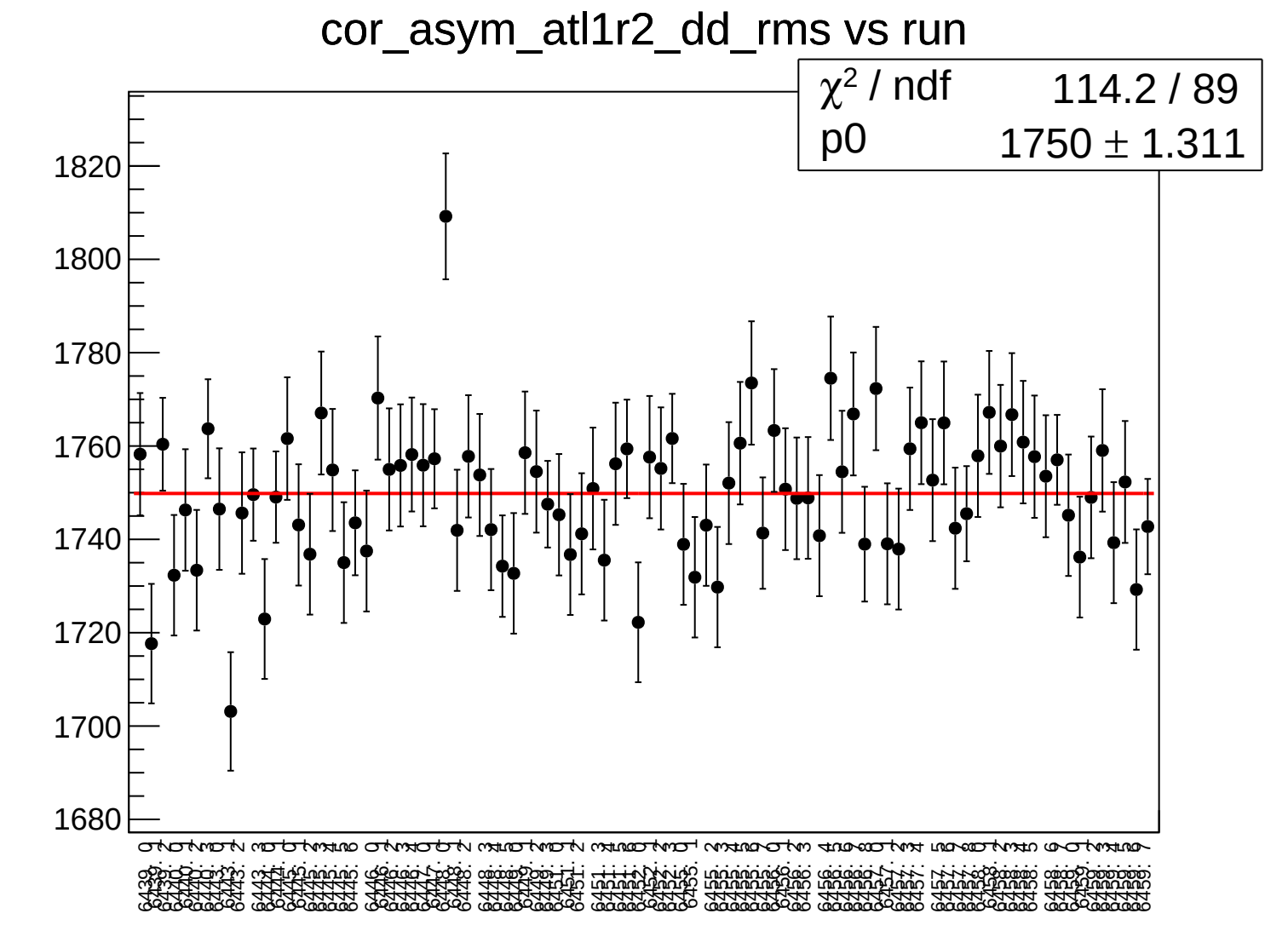

asym_atl1r2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 82.53 / 89
p0 4995 ± 3709
100
50
0
−50
−100
pull
Entries 90
Mean −144.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

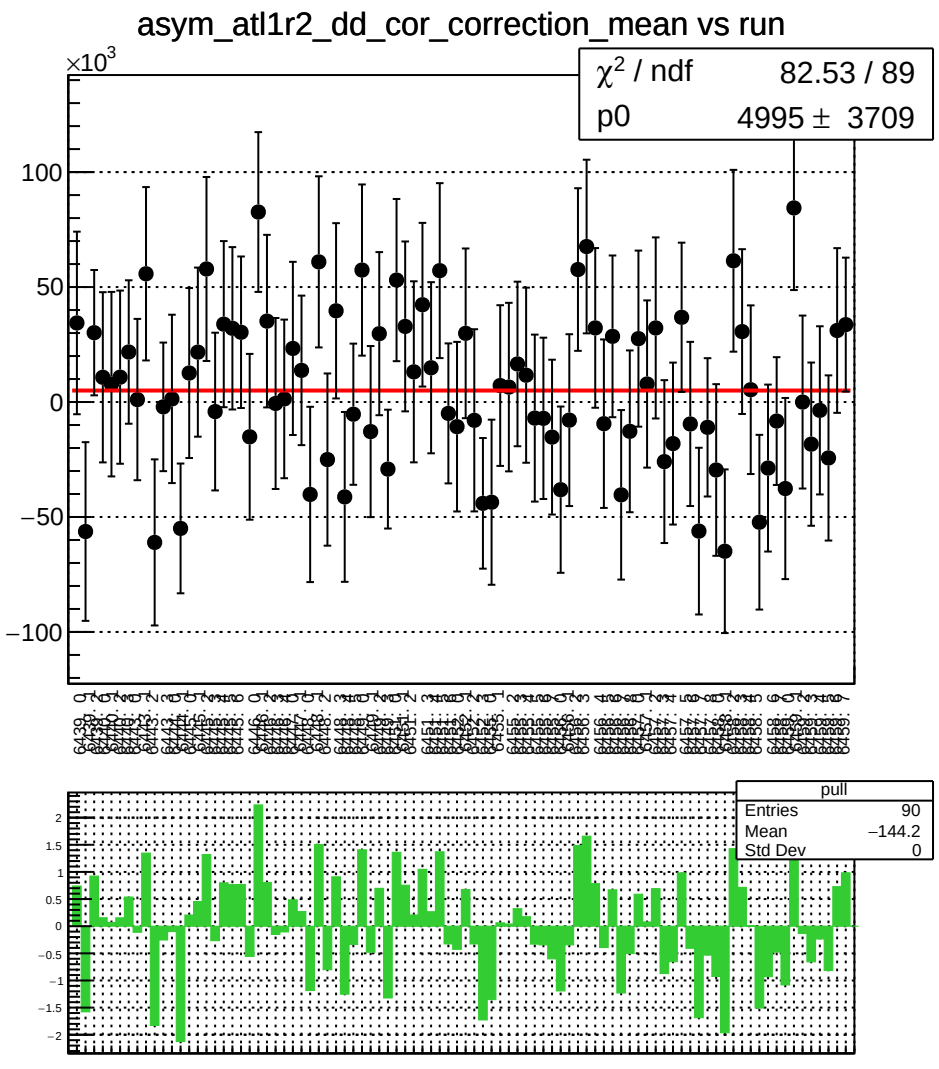

pull1D
Entries 90
Mean 0.01592
Std Dev 0.9575
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

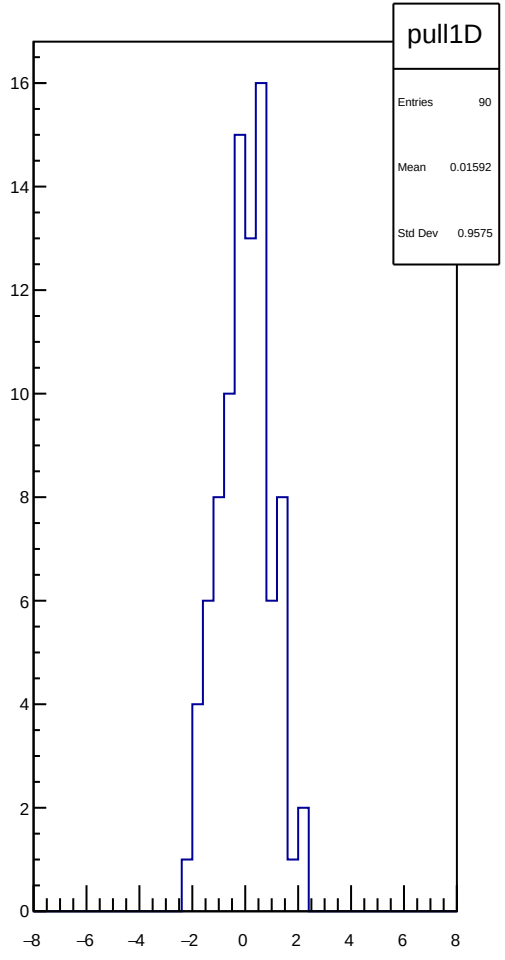

asym_atl1r2_dd_reg_correction_rms vs run
χ² / ndf 2627 / 89
p0 3499 ± 2.623
3900
3800
3700
3600
3500
3400
3300
3200
3100
3000

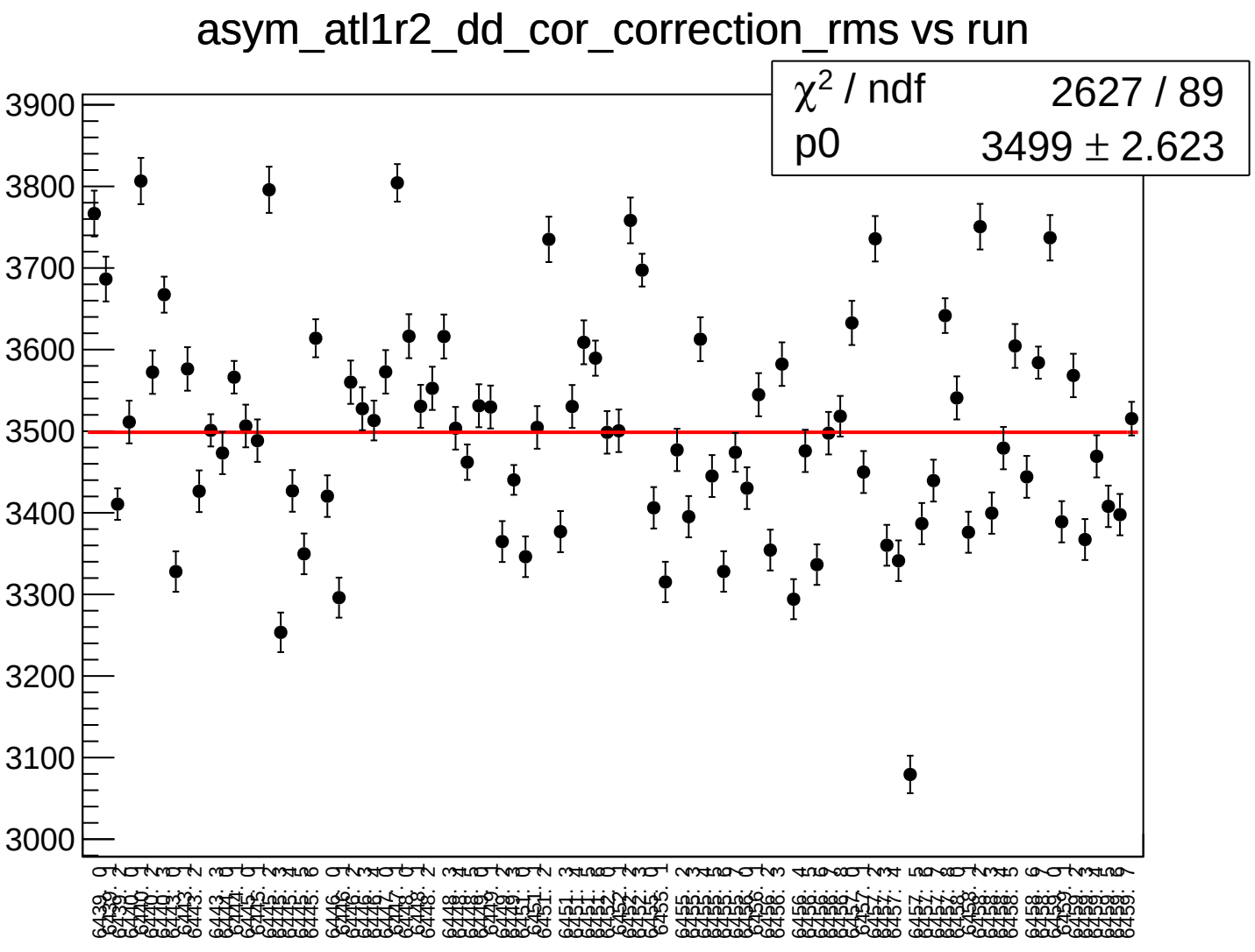

cor_asym_atl1r2_dd_mean vs run
χ² / ndf 73.81 / 89
p0 −2002 ± 1854
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −55.46
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

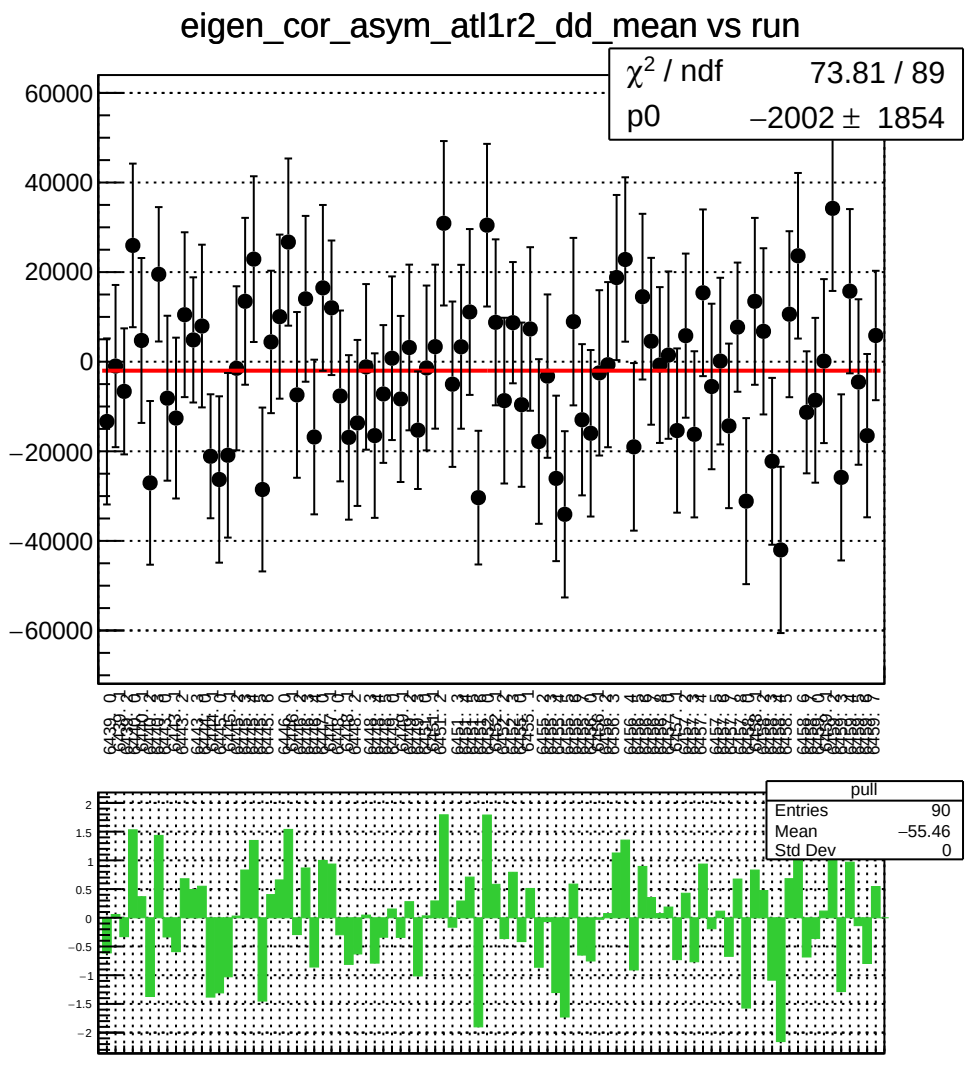

pull1D
Entries 90
Mean 0.004602
Std Dev 0.9056
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

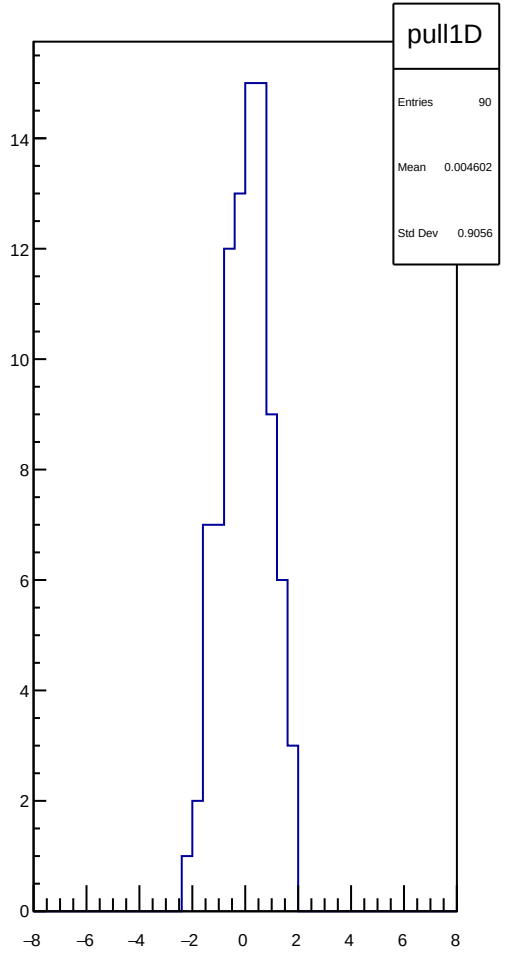

cor_asym_atl1r2_dd_rms vs run
χ² / ndf 114.2 / 89
p0 1750 ± 1.311
1820
1800
1780
1760
1740
1720
1700
1680

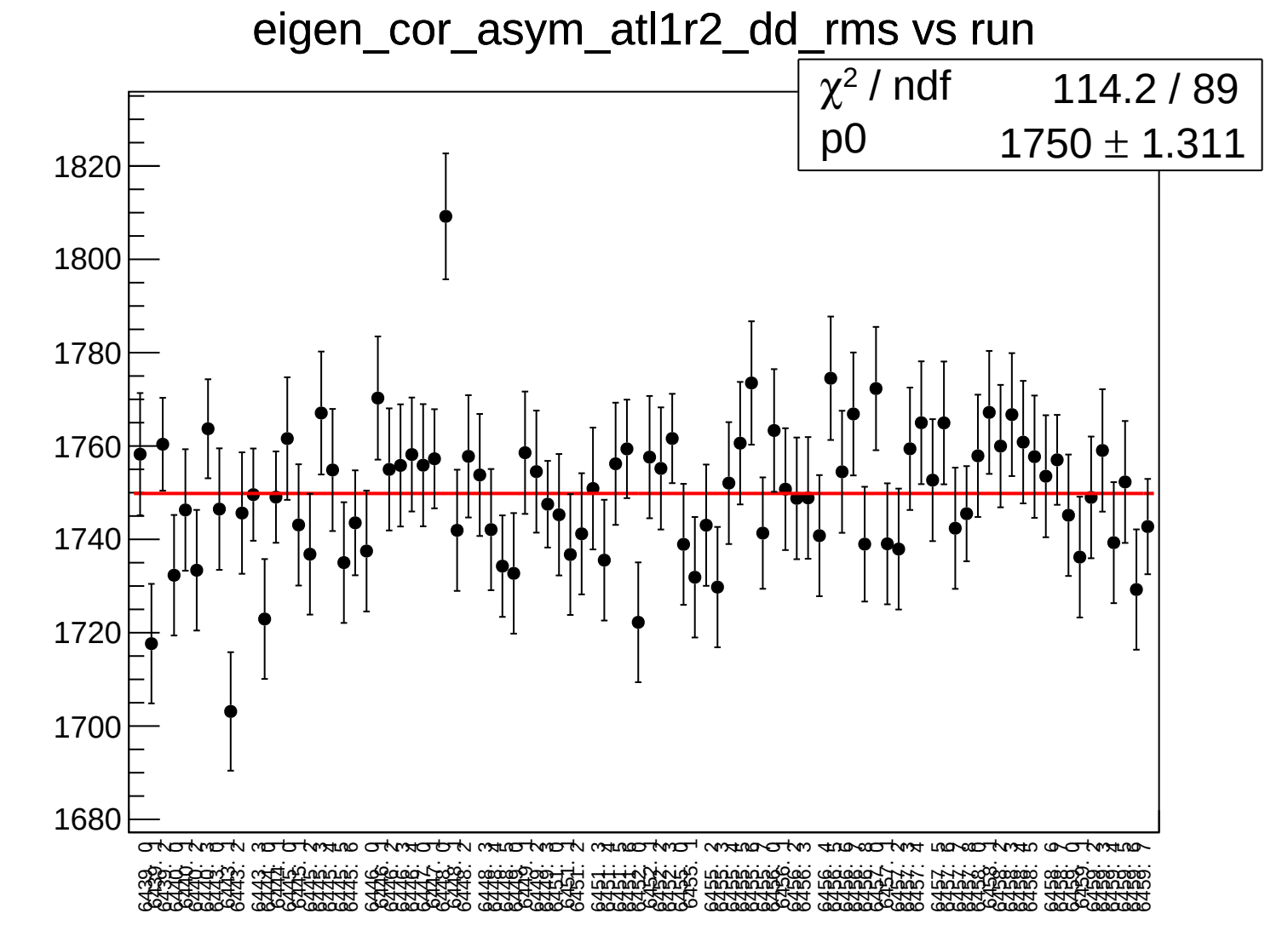

asym_atl1r2_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 82.53 / 89
p0 4995 ± 3709
100
50
0
−50
−100
pull
Entries 90
Mean −144.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

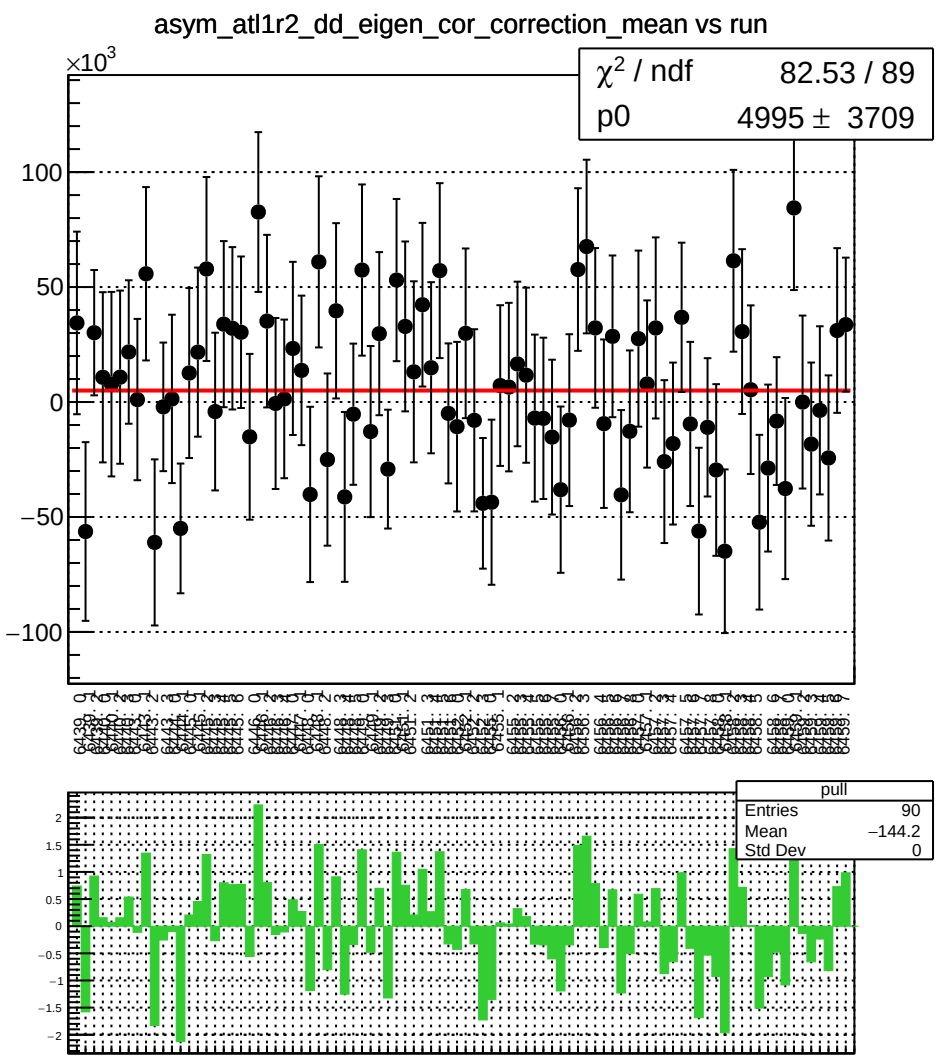

pull1D
Entries 90
Mean 0.01592
Std Dev 0.9575
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

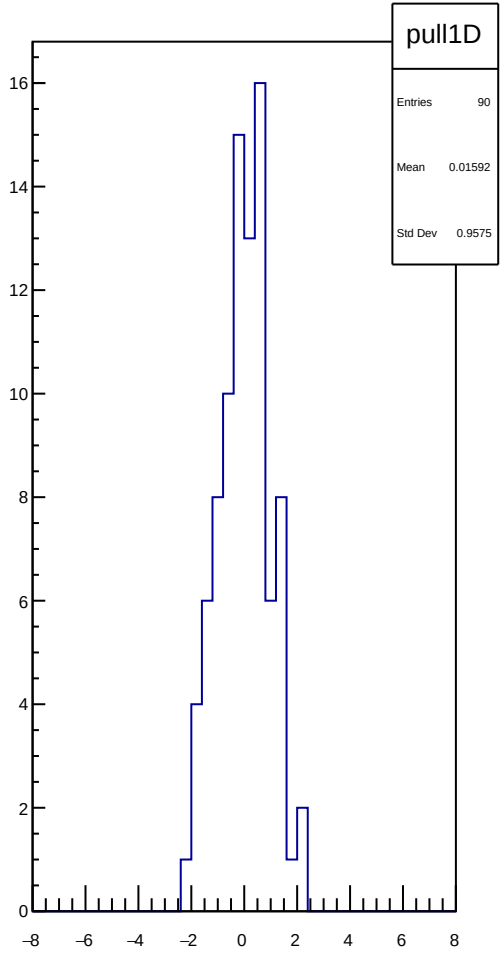

asym_atl1r2_dd_cor_correction_rms vs run
χ² / ndf 2627 / 89
p0 3499 ± 2.623
3900
3800
3700
3600
3500
3400
3300
3200
3100
3000

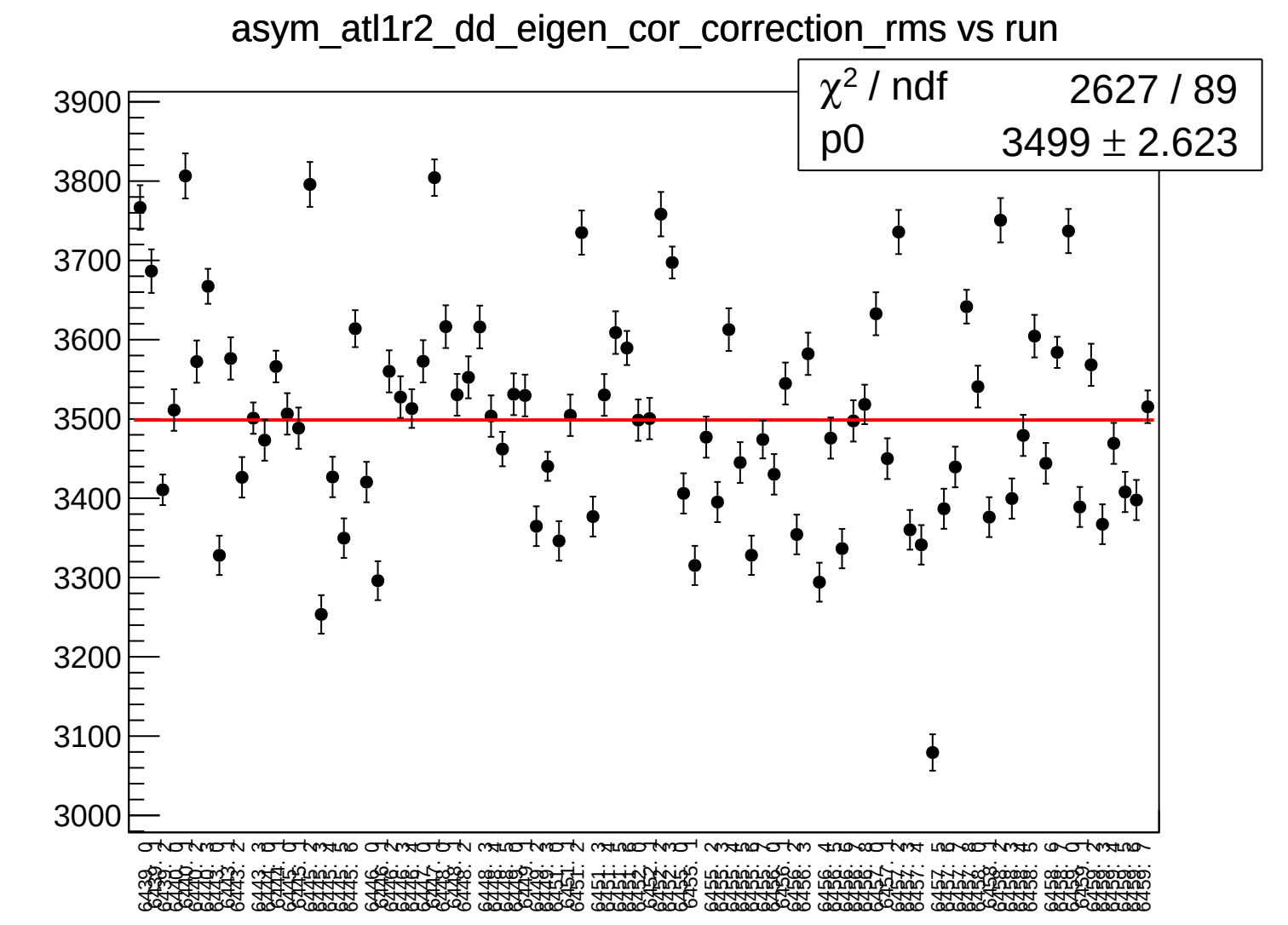

eigen_cor_asym_atl1r2_dd_mean vs run
χ² / ndf 73.81 / 89
p0 −2002 ± 1854
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −55.46
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

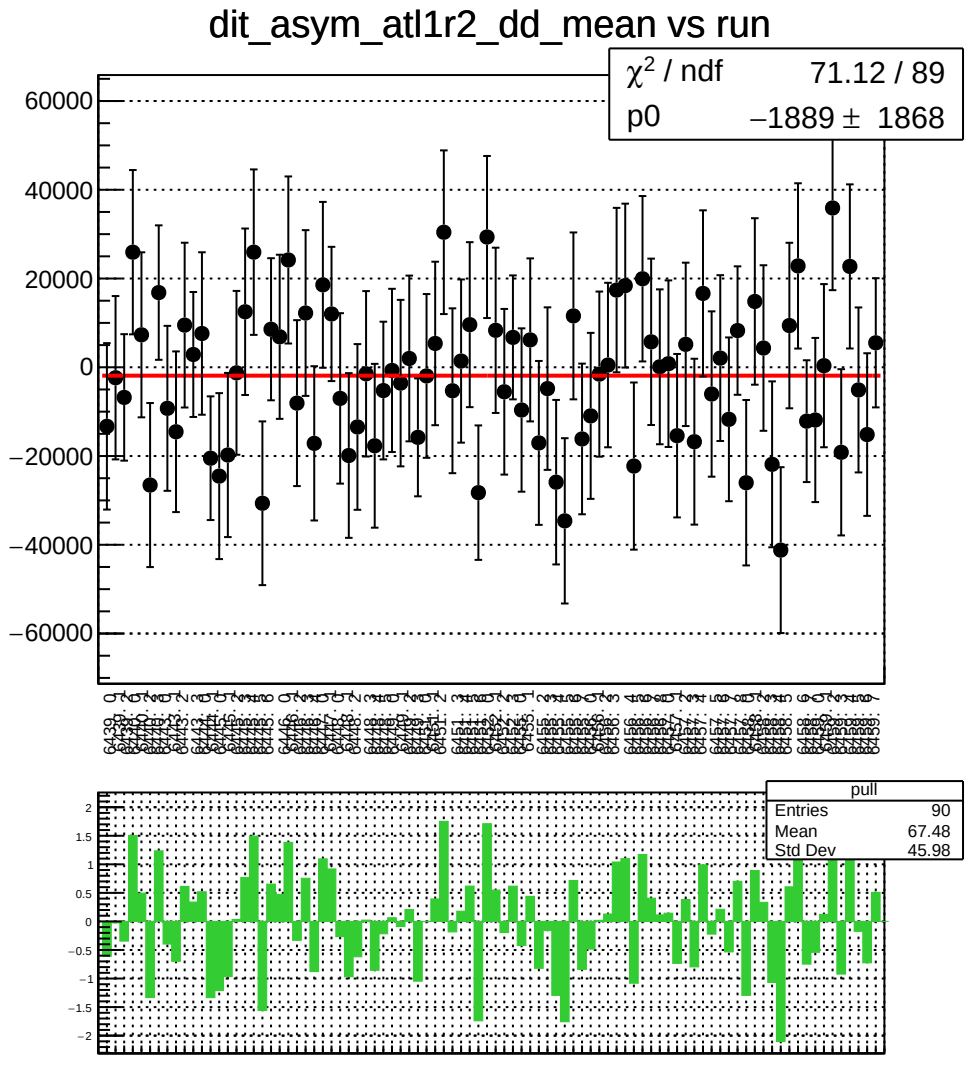

pull1D
Entries 90
Mean 0.004602
Std Dev 0.9056
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

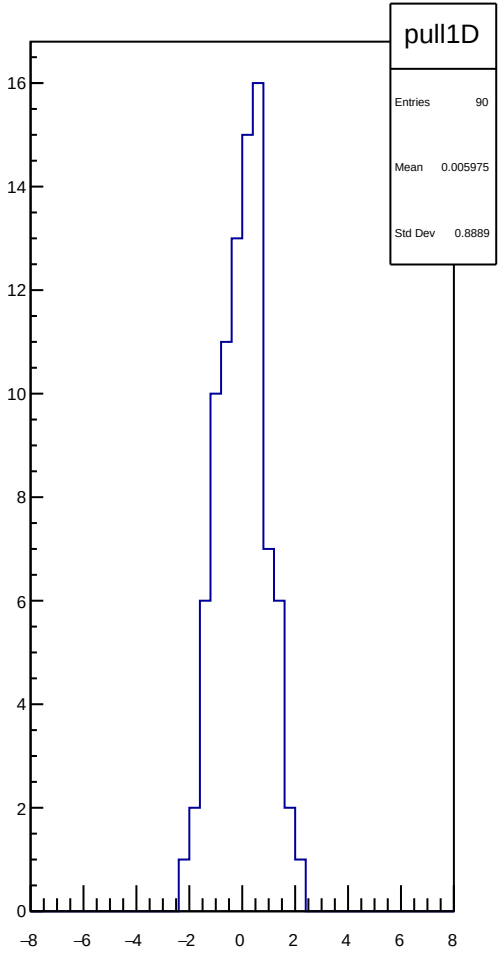

eigen_cor_asym_atl1r2_dd_rms vs run
χ^2 / ndf 114.2 / 89
p0 1750 ± 1.311
1820
1800
1780
1760
1740
1720
1700
1680

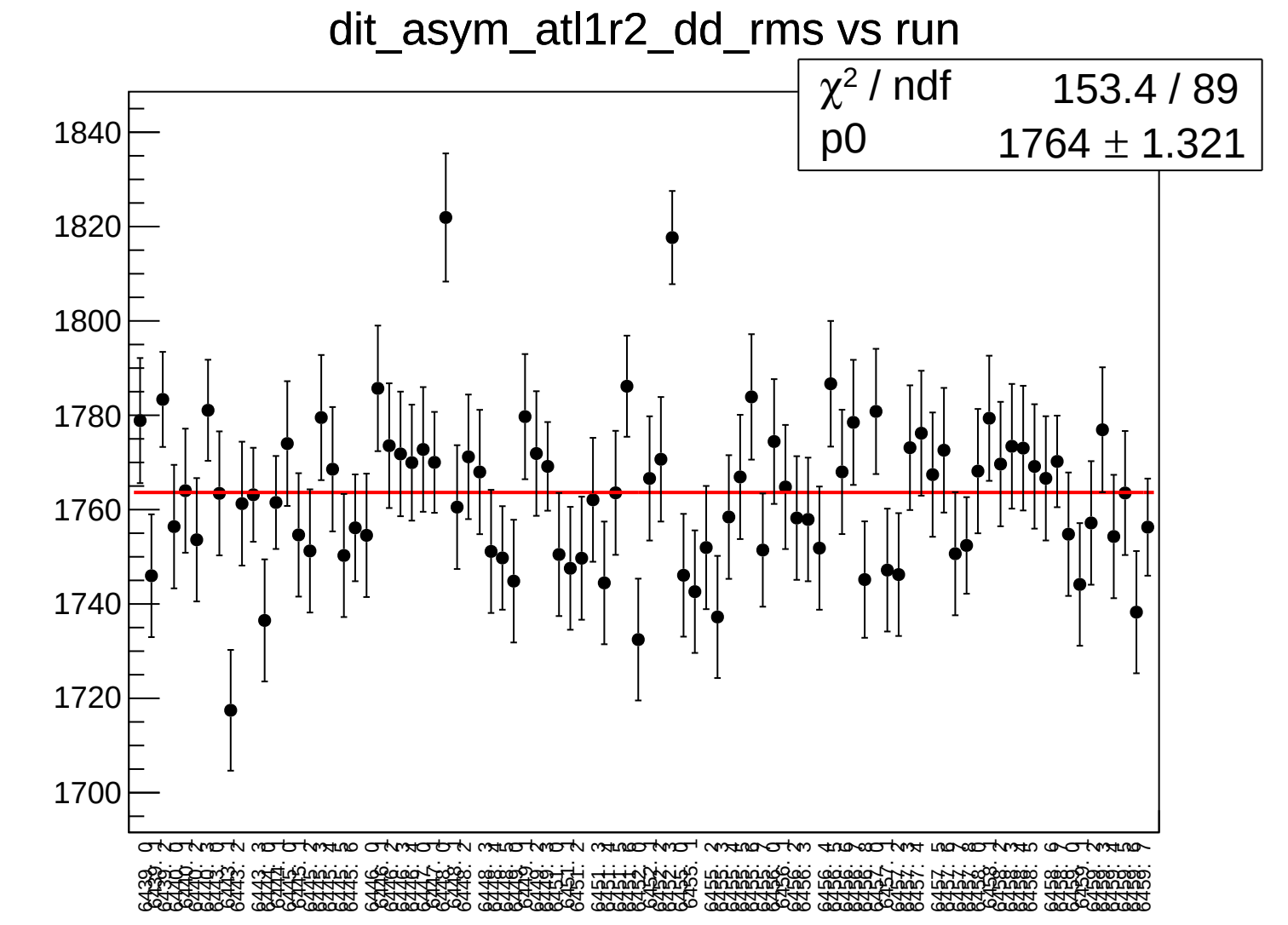

asym_atl1r2_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 82.53 / 89
p0 4995 ± 3709
100
50
0
−50
−100
pull
Entries 90
Mean −144.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

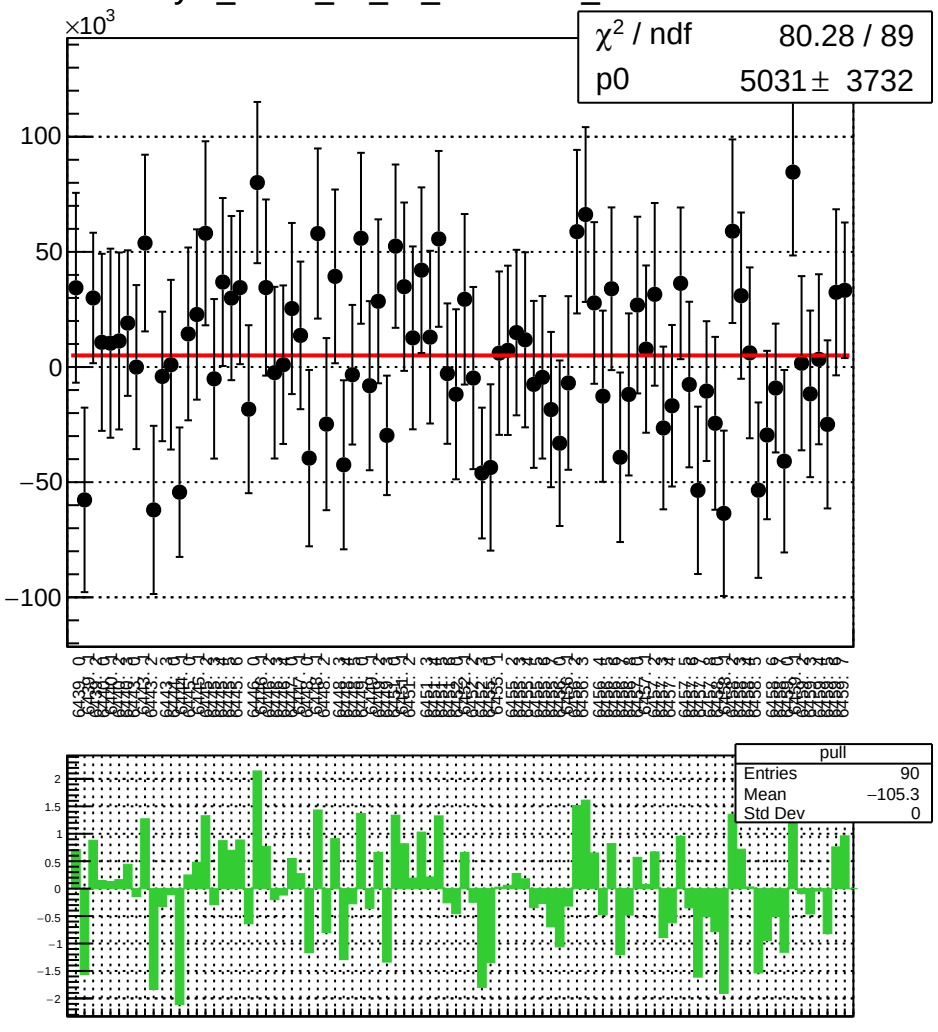

pull1D
Entries 90
Mean 0.01592
Std Dev 0.9575
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

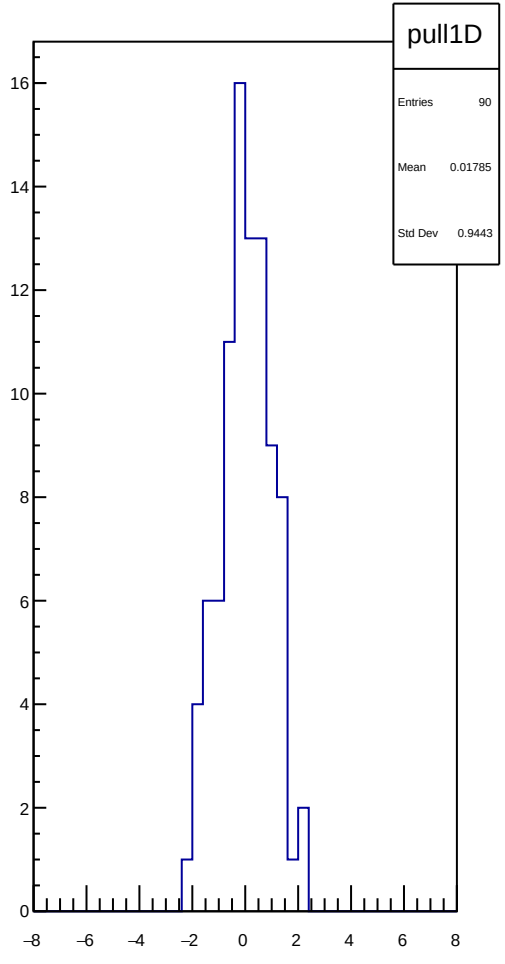

asym_atl1r2_dd_eigen_cor_correction_rms vs run
χ² / ndf 2627 / 89
p0 3499 ± 2.623
3900
3800
3700
3600
3500
3400
3300
3200
3100
3000

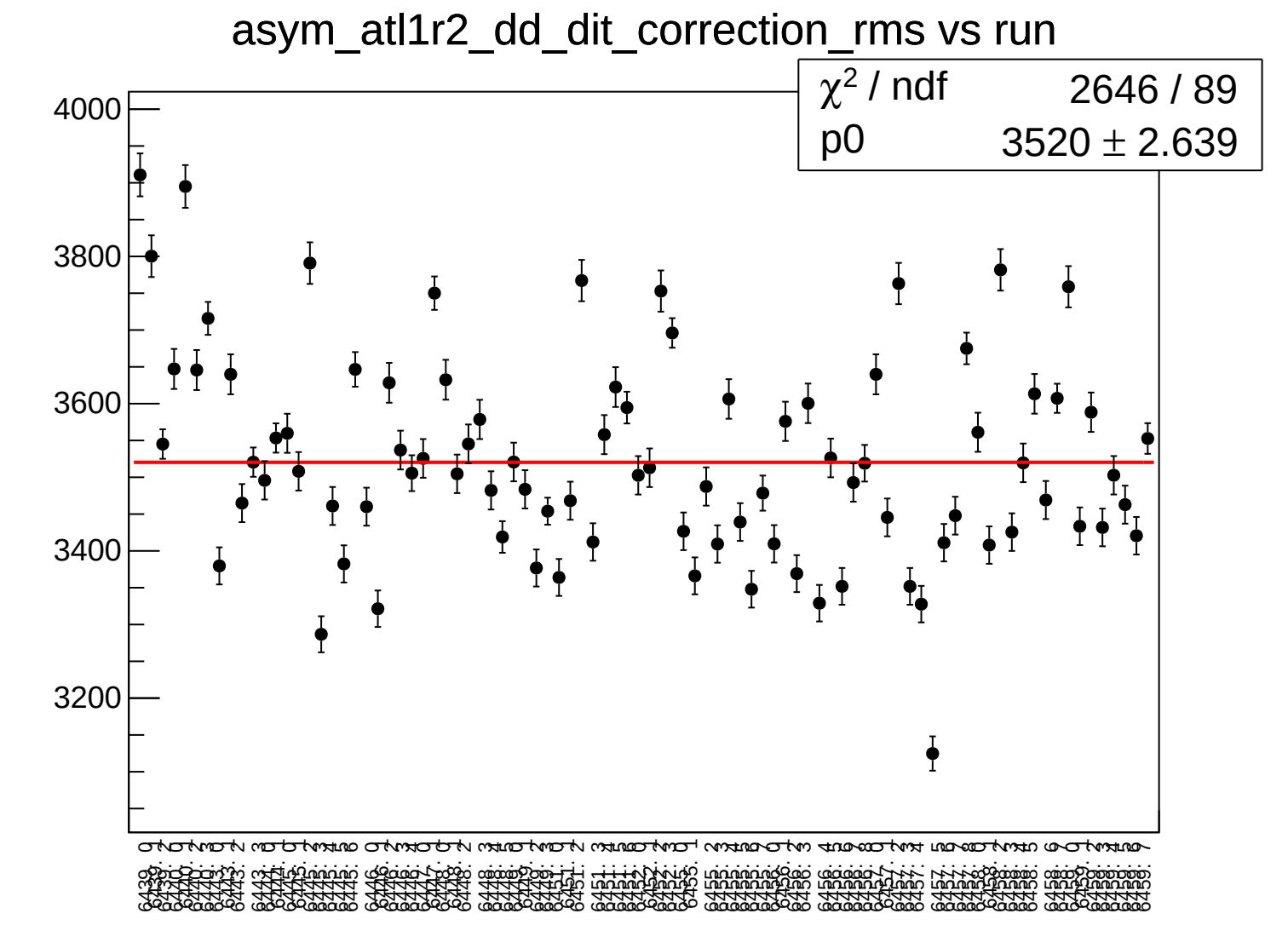

dit_asym_atl1r2_dd_mean vs run
χ² / ndf 71.12 / 89
p0 −1889 ± 1868
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 67.48
Std Dev 45.98
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

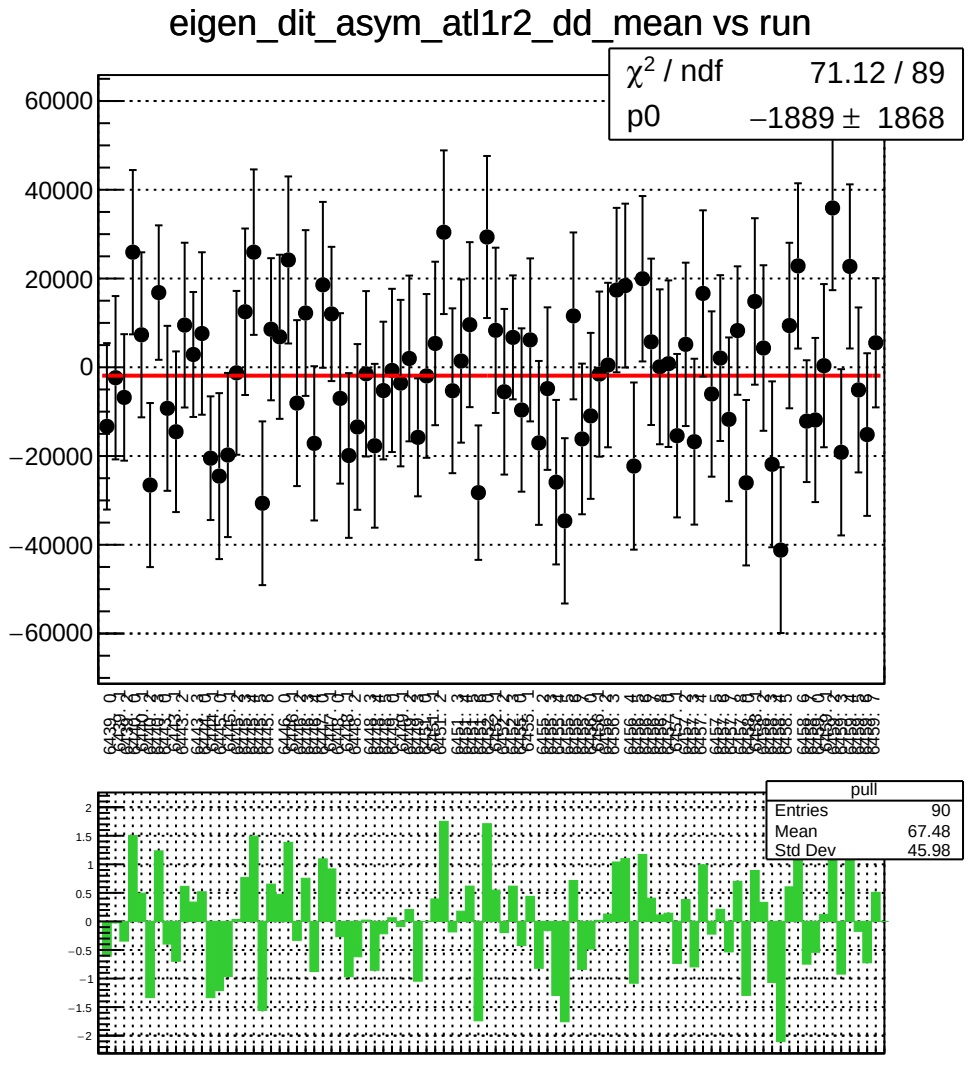

pull1D
Entries 90
Mean 0.005975
Std Dev 0.8889
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

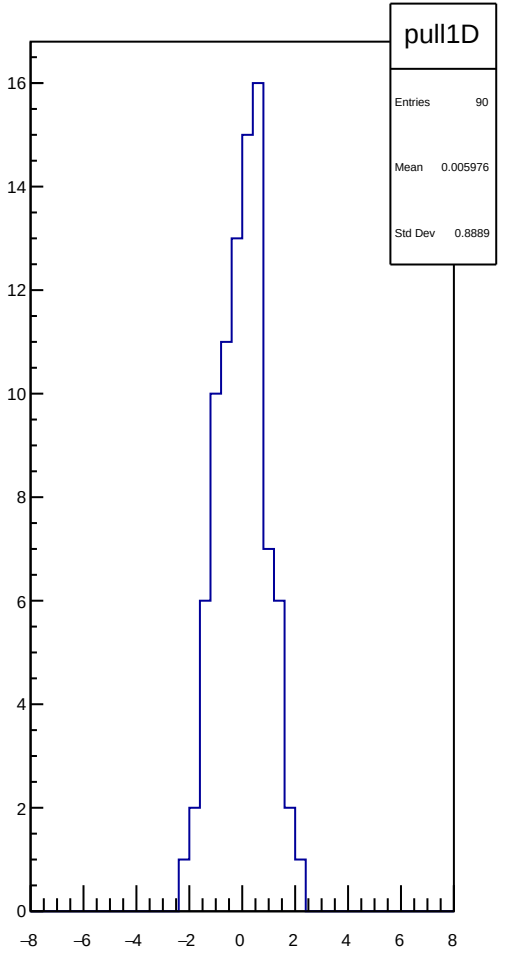

dit_asym_atl1r2_dd_rms vs run
χ² / ndf 153.4 / 89
p0 1764 ± 1.321
1840
1820
1800
1780
1760
1740
1720
1700

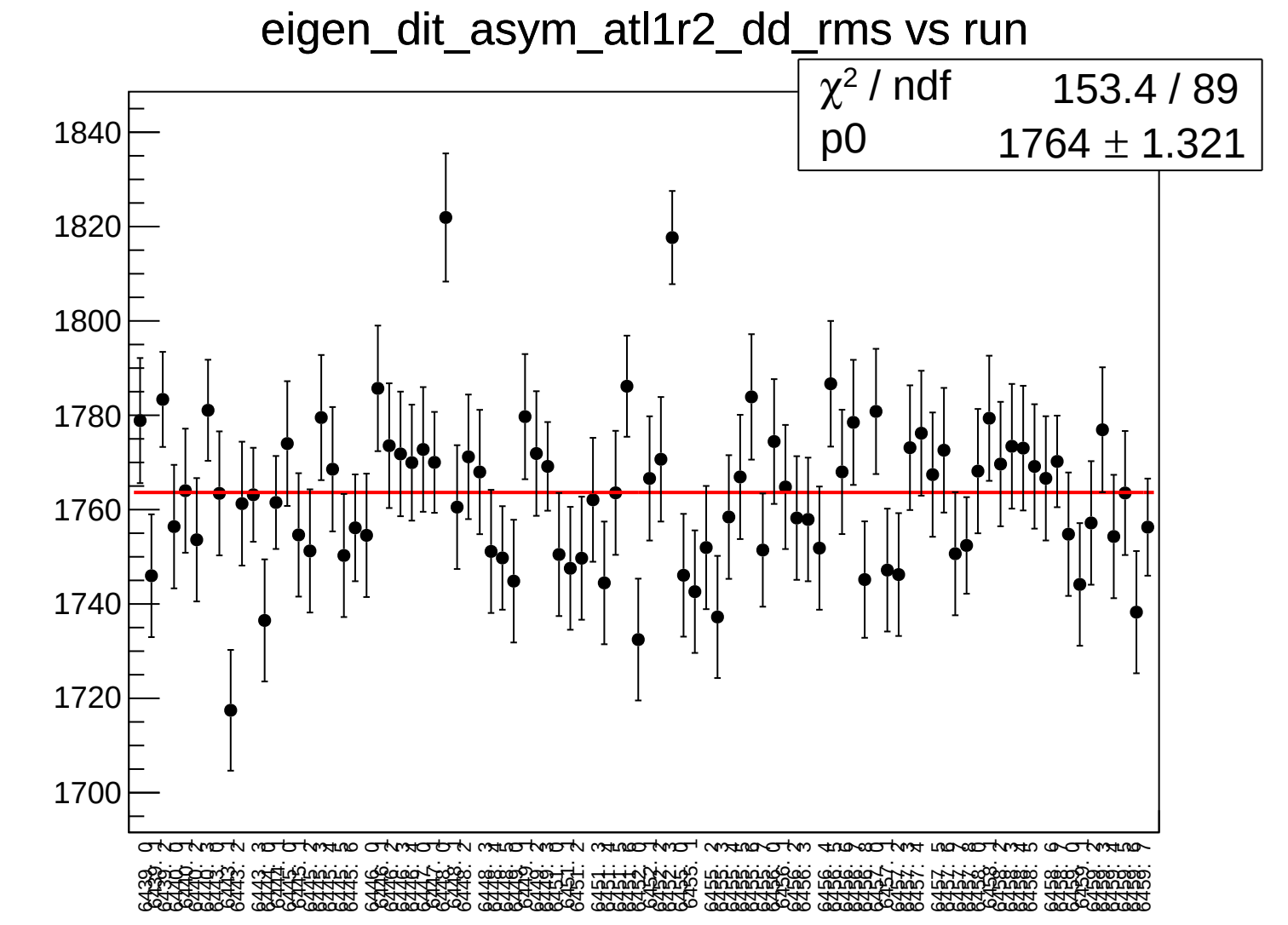

asym_atl1r2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 80.28 / 89
p0 5031 ± 3732
100
50
0
−50
−100
pull
Entries 90
Mean −105.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

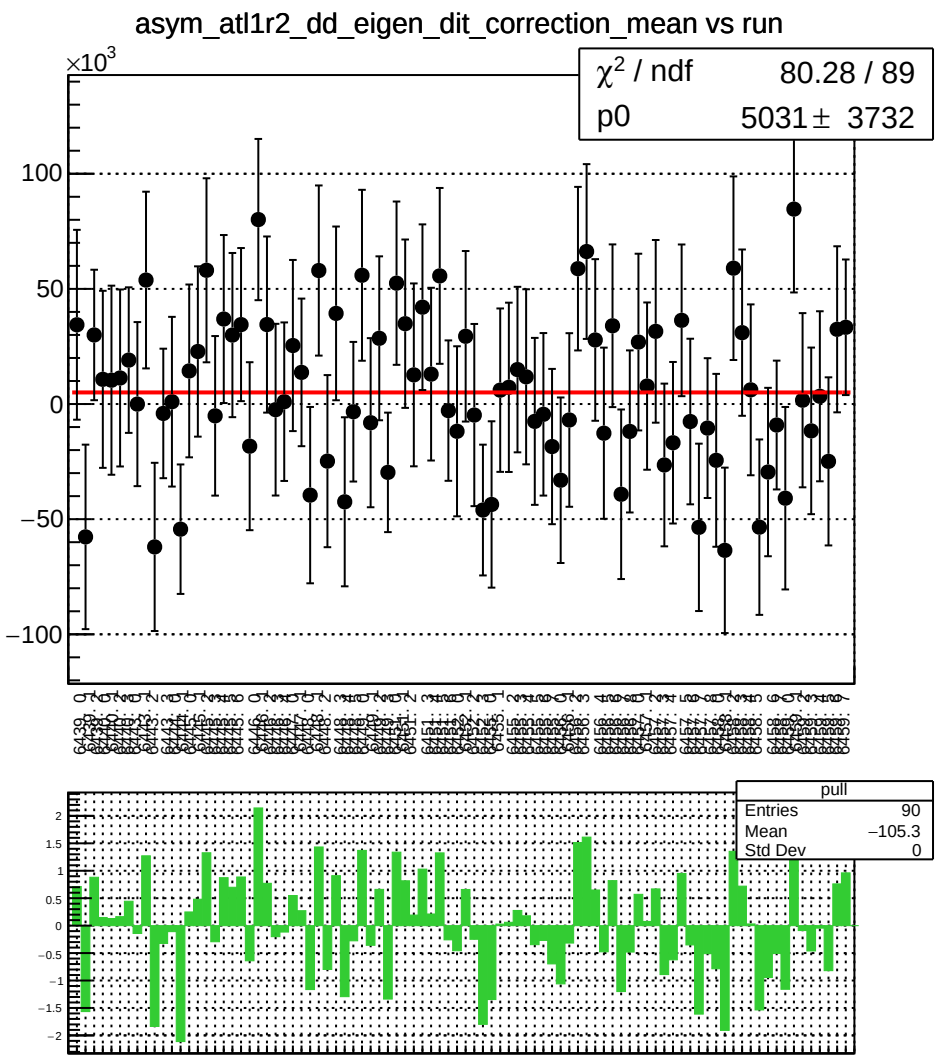

pull1D
Entries 90
Mean 0.01785
Std Dev 0.9443
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

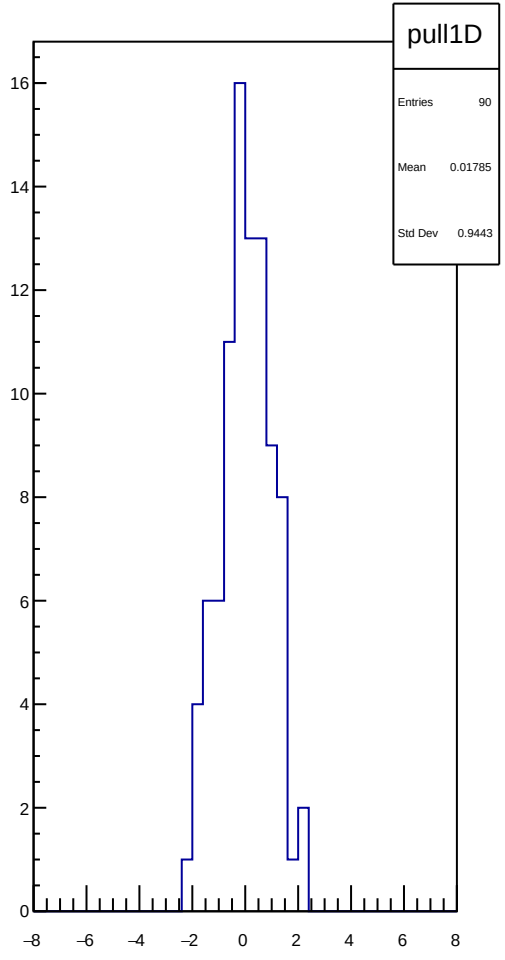

asym_atl1r2_dd_dit_correction_rms vs run
χ² / ndf 2646 / 89
p0 3520 ± 2.639
4000
3800
3600
3400
3200

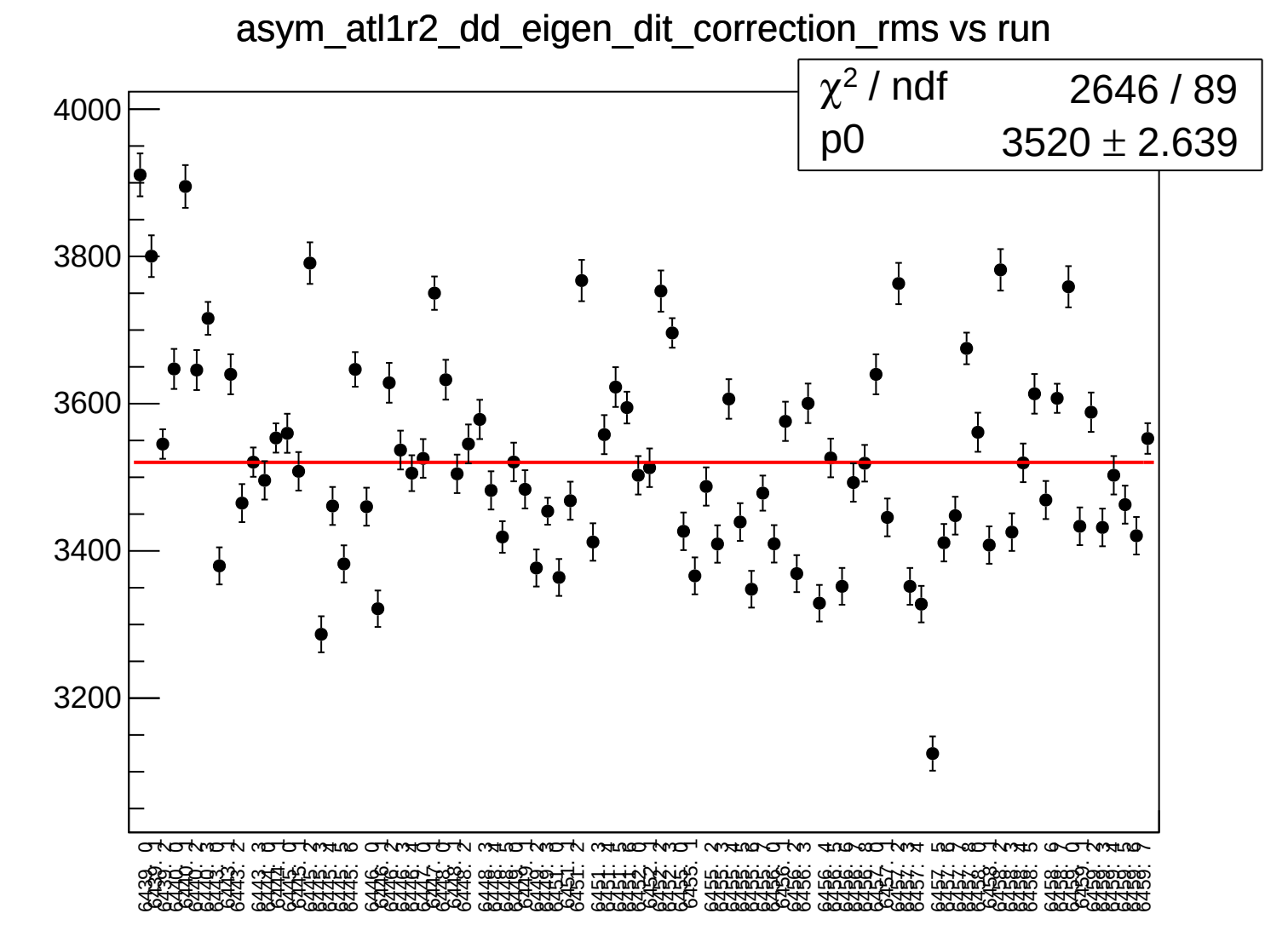

eigen_dit_asym_atl1r2_dd_mean vs run
χ² / ndf 71.12 / 89
p0 −1889 ± 1868
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 67.48
Std Dev 45.98
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

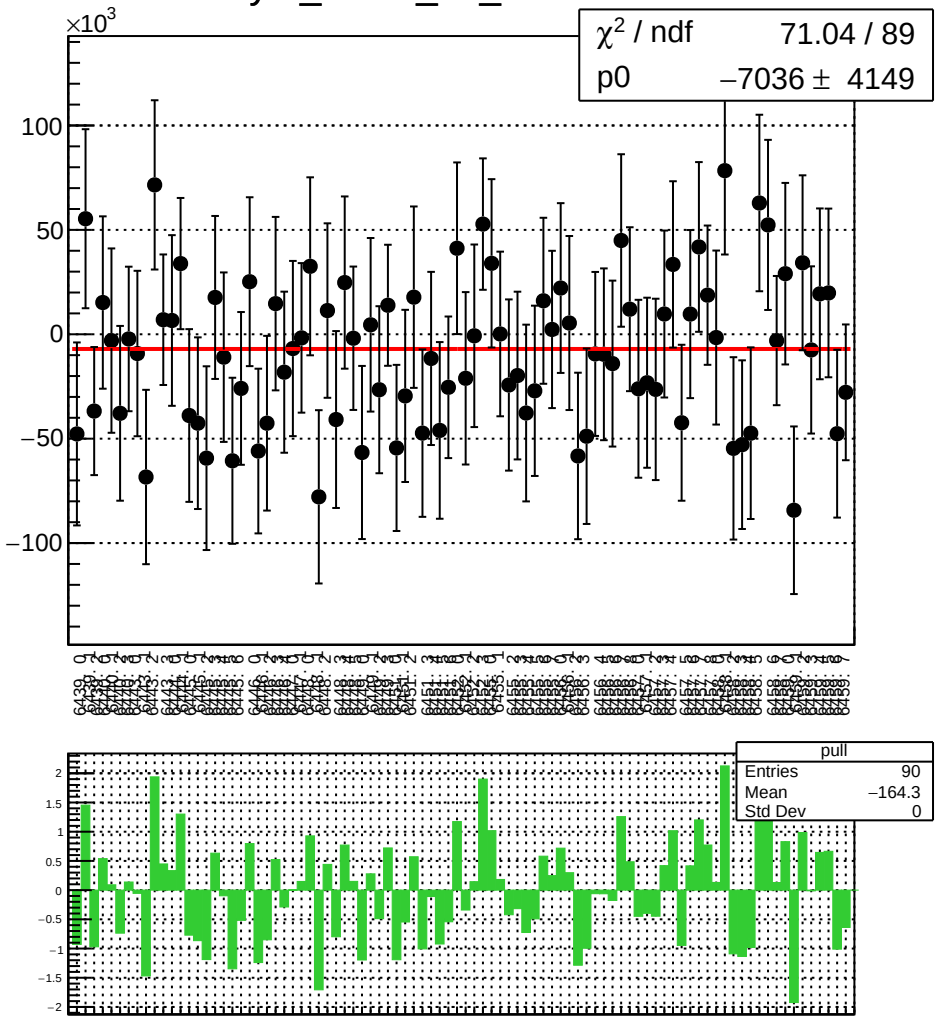

pull1D
Entries 90
Mean 0.005976
Std Dev 0.8889
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

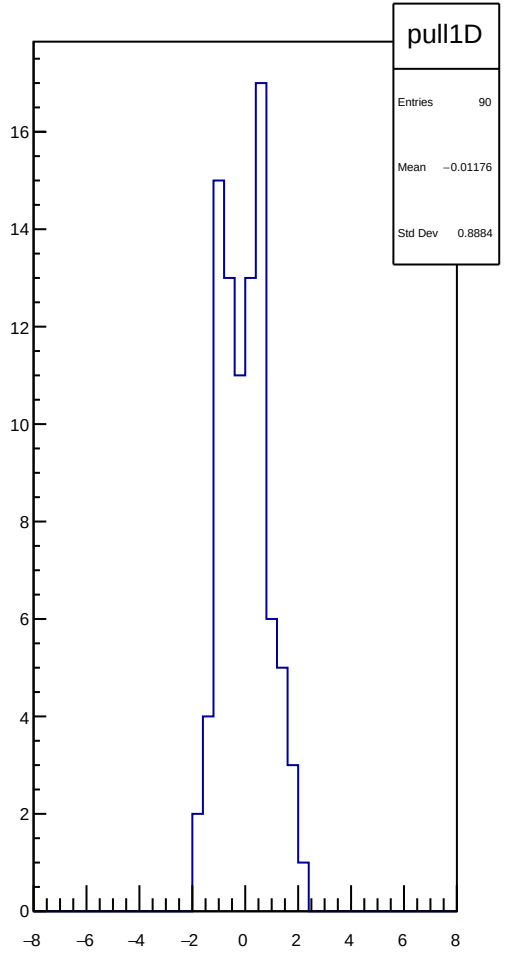

eigen_dit_asym_atl1r2_dd_rms vs run
χ² / ndf 153.4 / 89
p0 1764 ± 1.321
1840
1820
1800
1780
1760
1740
1720
1700

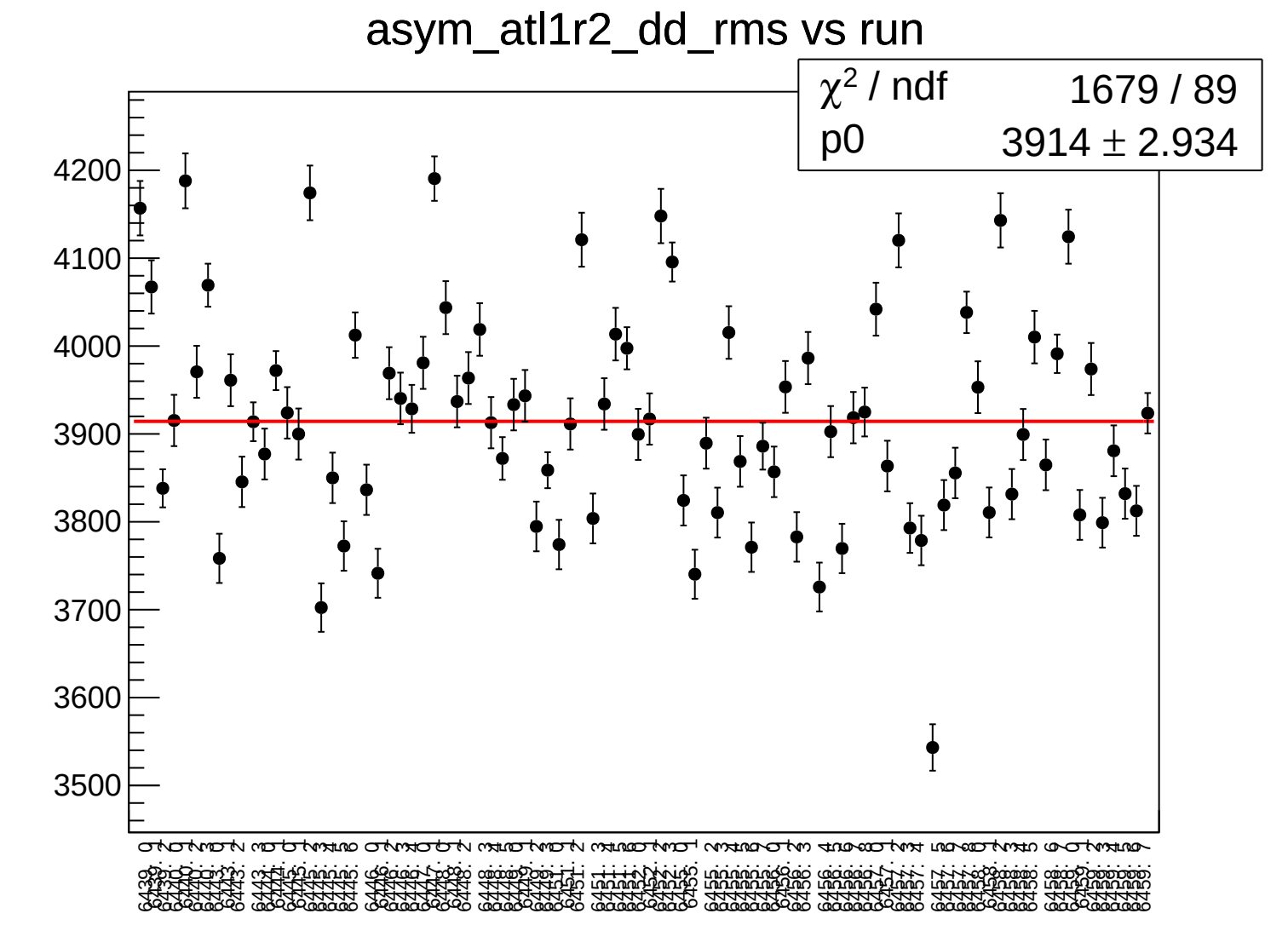

asym_atl1r2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 80.28 / 89
p0 5031 ± 3732
100
50
0
−50
−100
pull
Entries 90
Mean −105.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

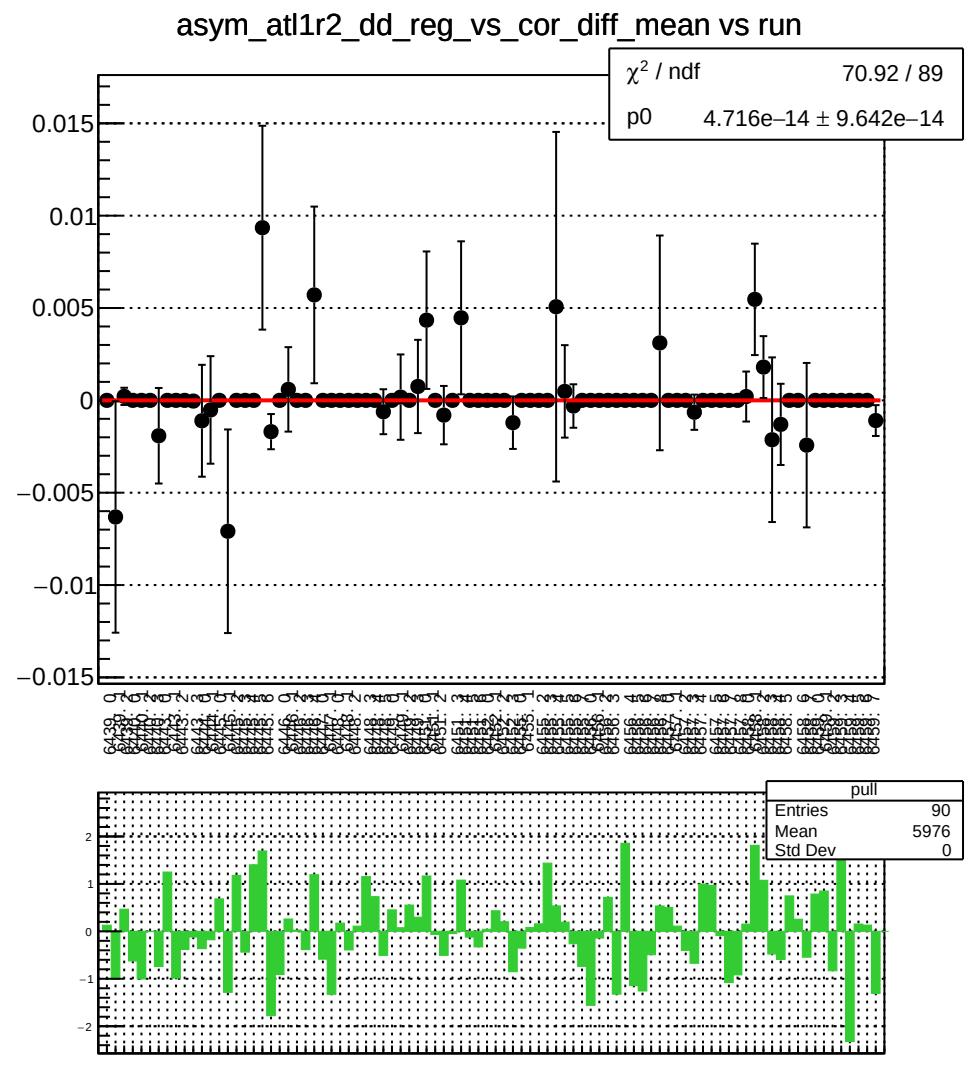

pull1D
Entries 90
Mean 0.01785
Std Dev 0.9443
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

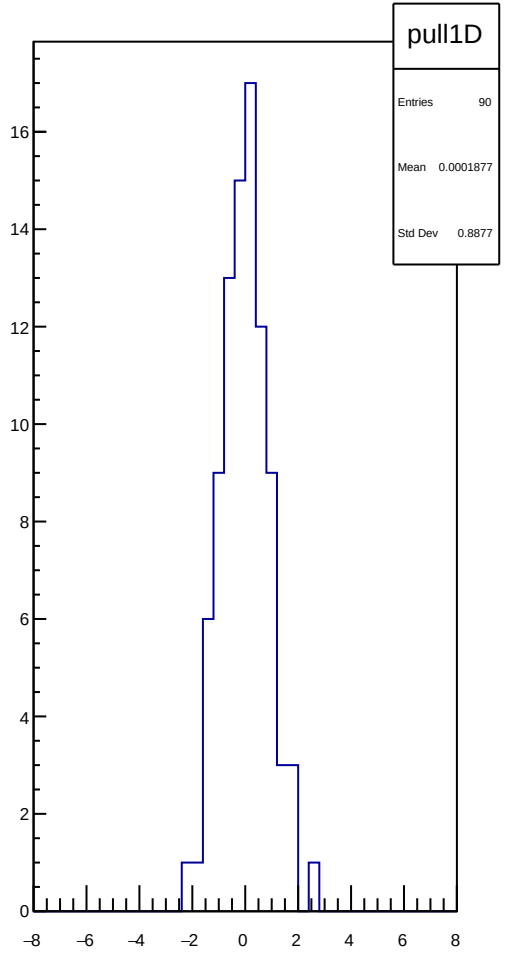

asym_atl1r2_dd_eigen_dit_correction_rms vs run
χ² / ndf 2646 / 89
p0 3520 ± 2.639
4000
3800
3600
3400
3200

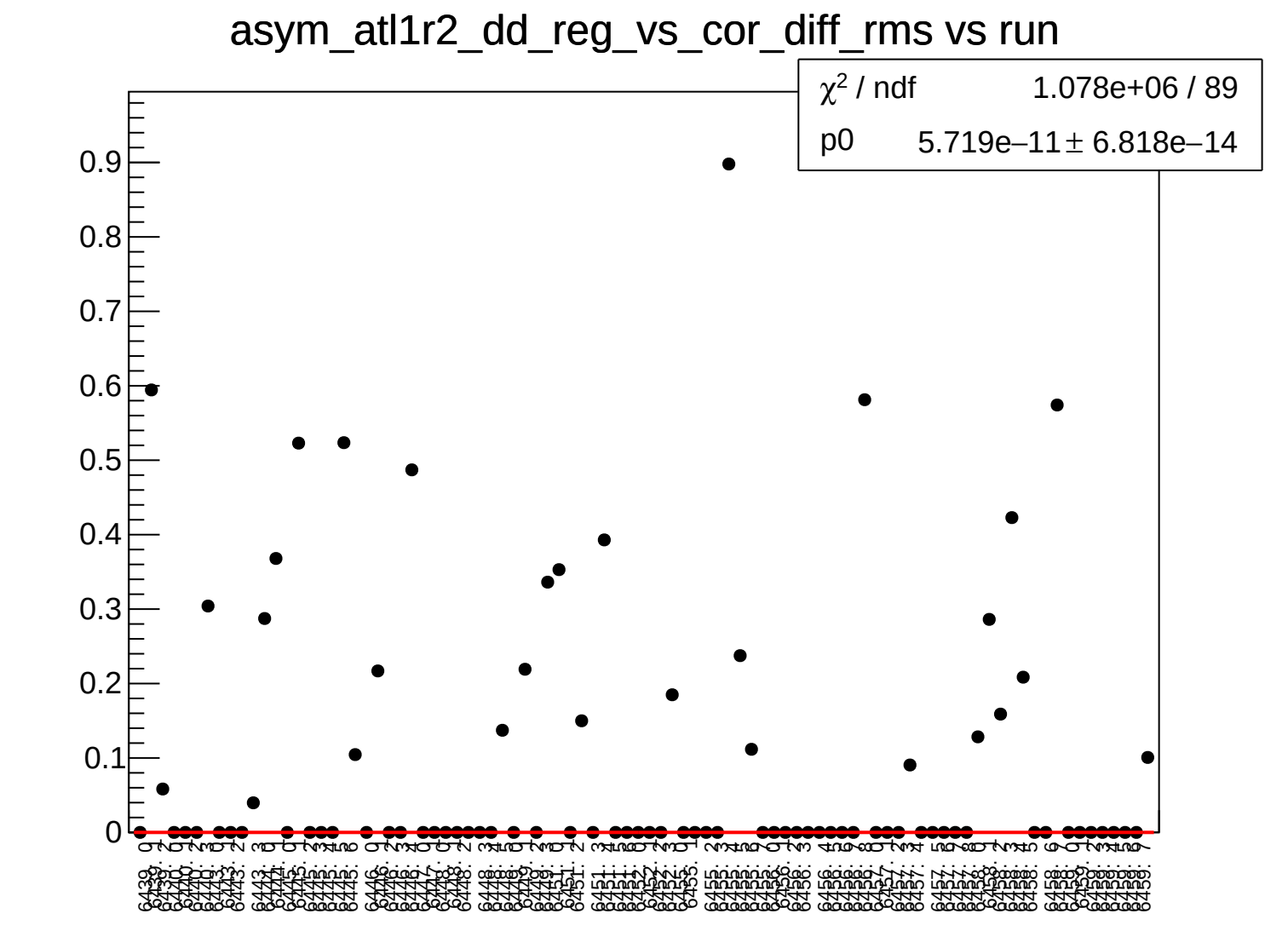

asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 71.04 / 89
p0 −7036 ± 4149
100
50
0
−50
−100
pull
Entries 90
Mean −164.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

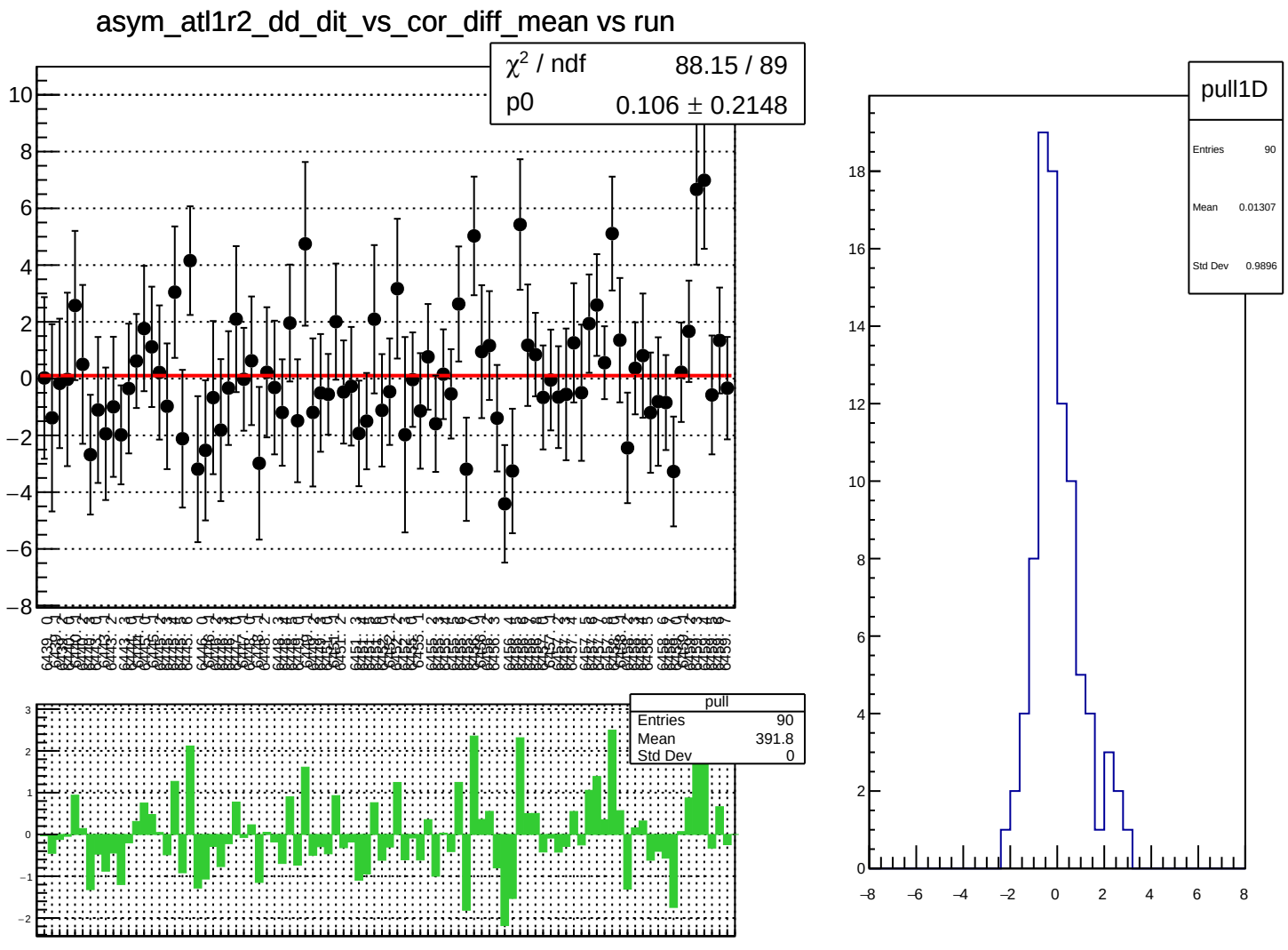

pull1D
Entries 90
Mean −0.01176
Std Dev 0.8884
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

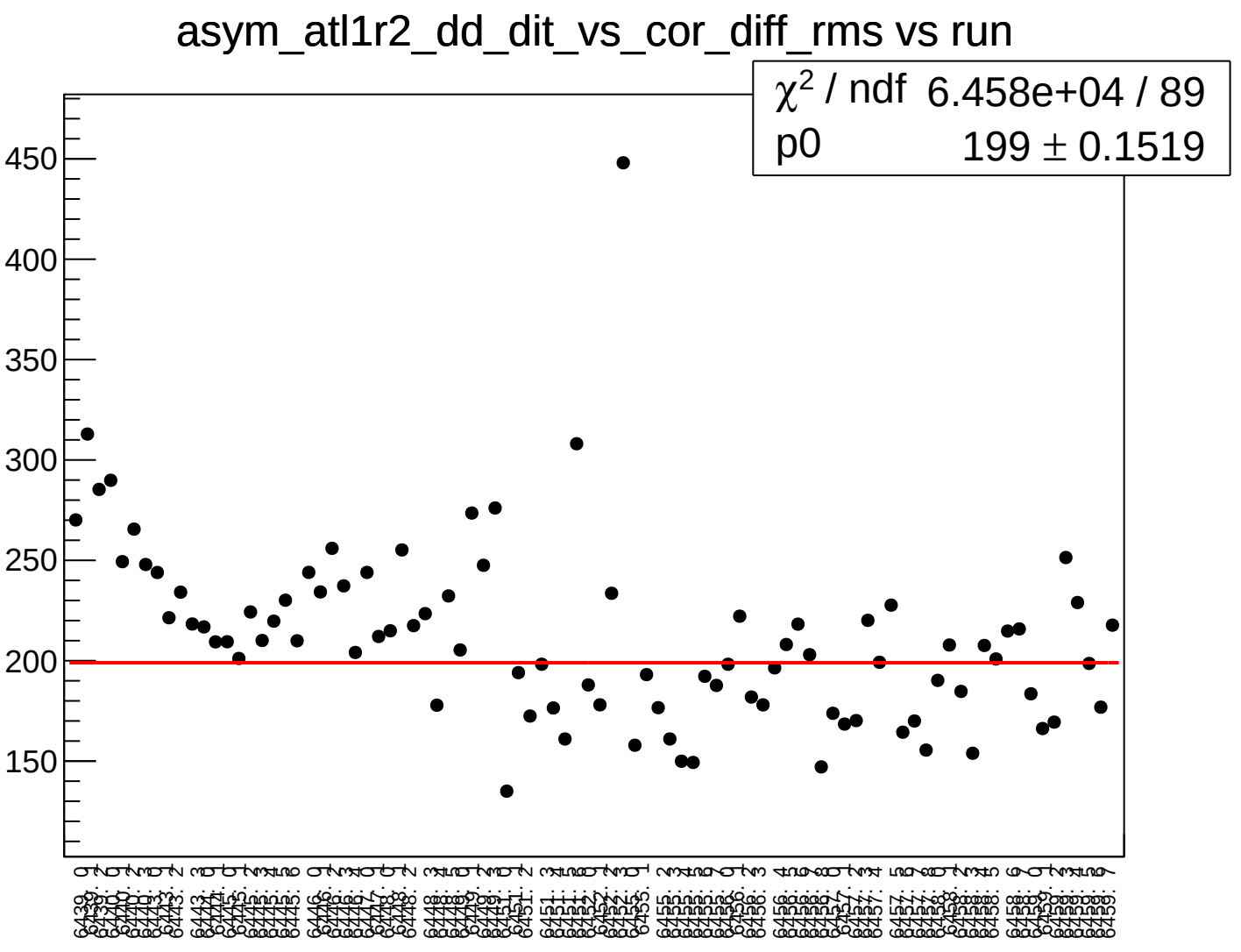

asym_atl1r2_dd_rms vs run
χ² / ndf 1679 / 89
p0 3914 ± 2.934
4200
4100
4000
3900
3800
3700
3600
3500

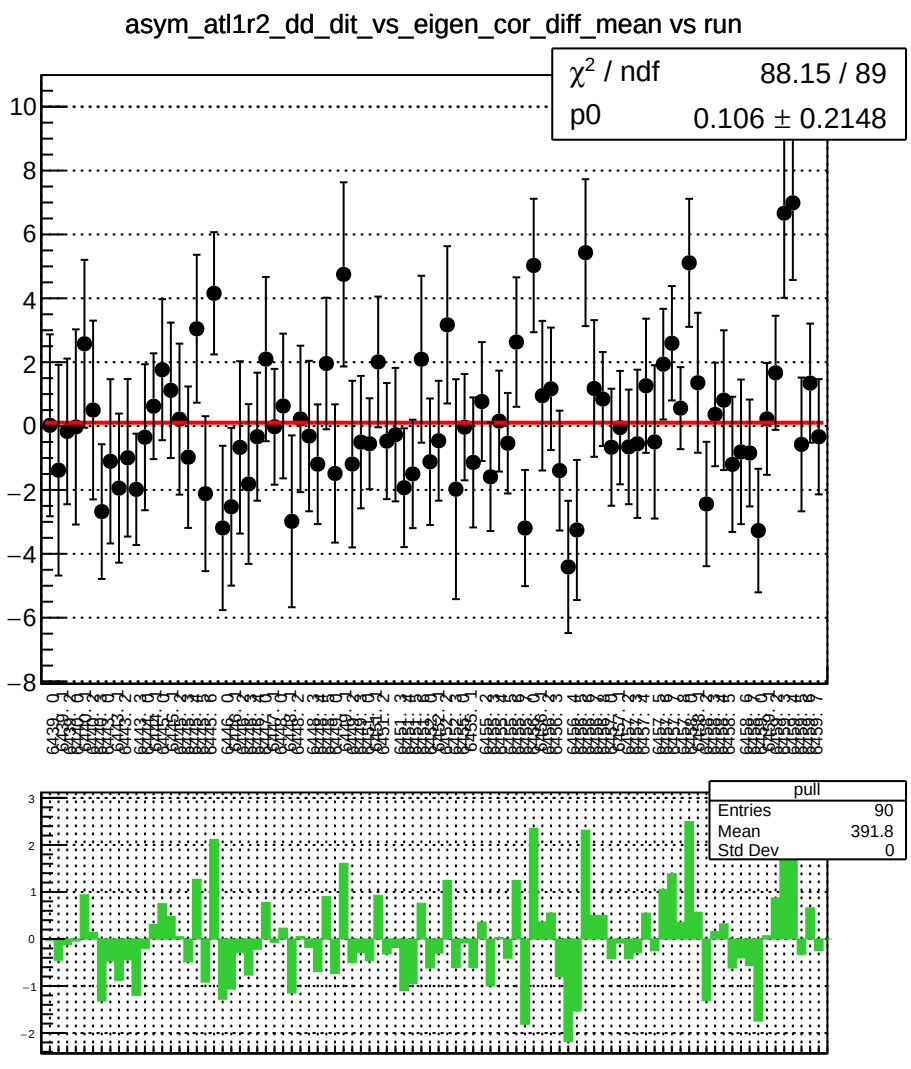

asym_atl1r2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 70.92 / 89
p0 4.716e−14 ± 9.642e−14
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 90
Mean 5976
Std Dev 0
2
1
0
−1
−2

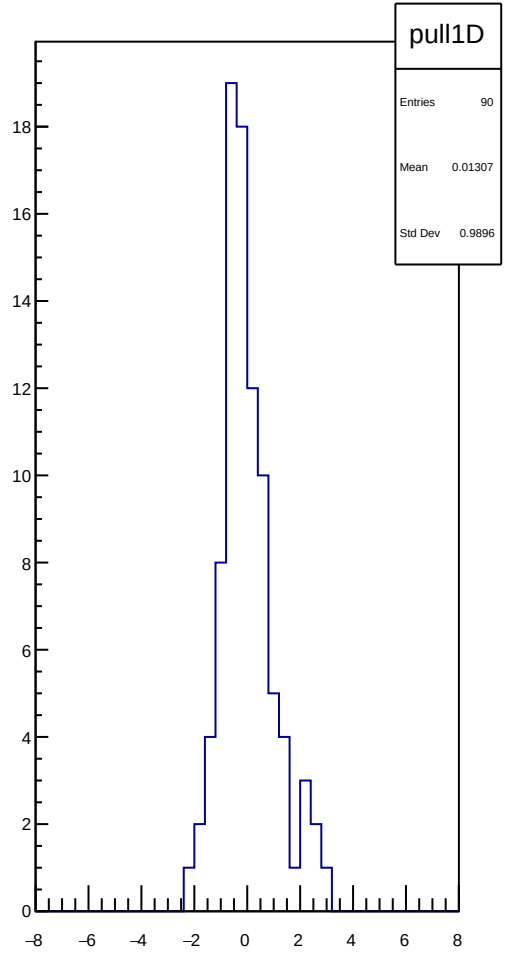

pull1D
Entries 90
Mean 0.0001877
Std Dev 0.8877
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

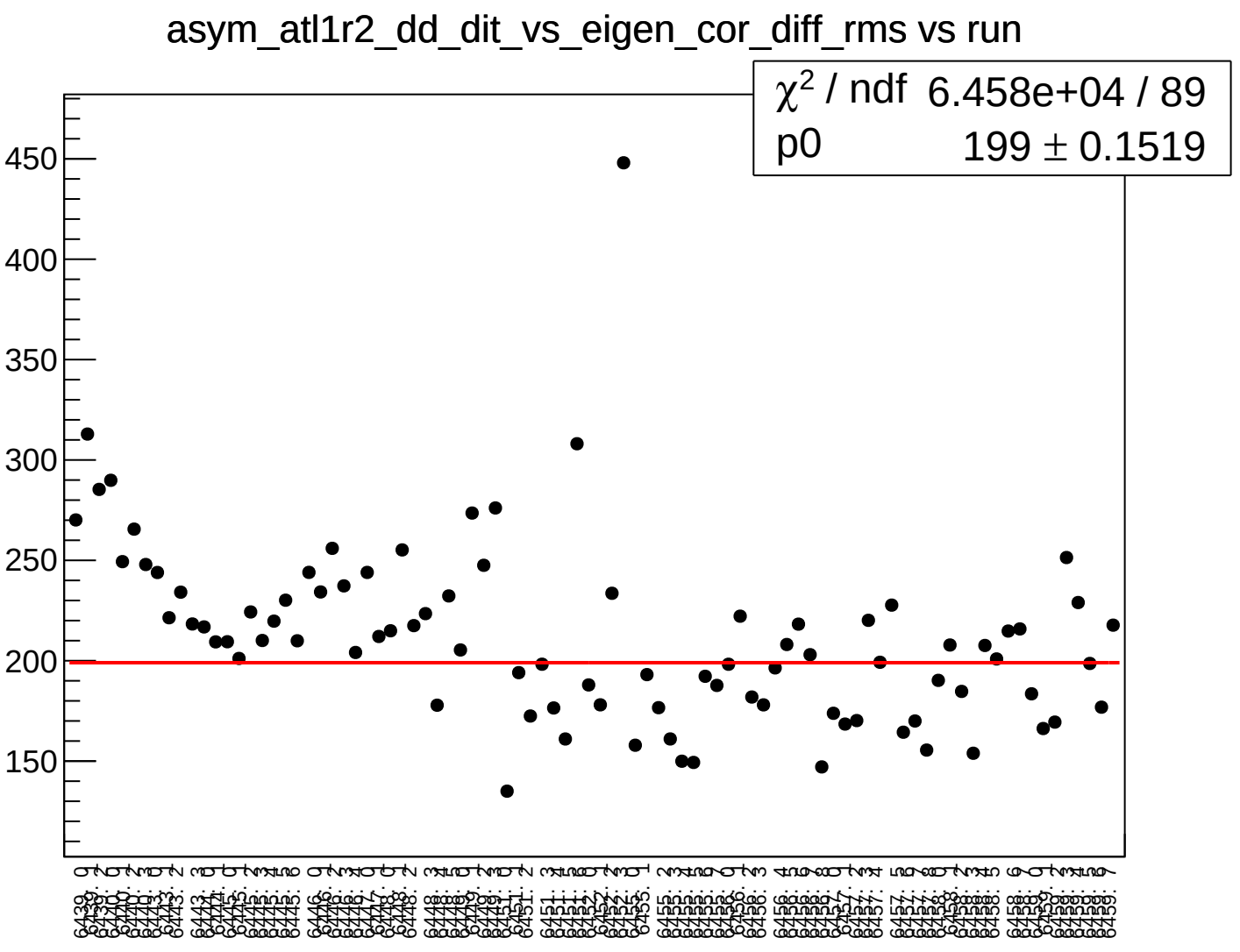

asym_atl1r2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.078e+06 / 89
p0 5.719e−11 ± 6.818e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

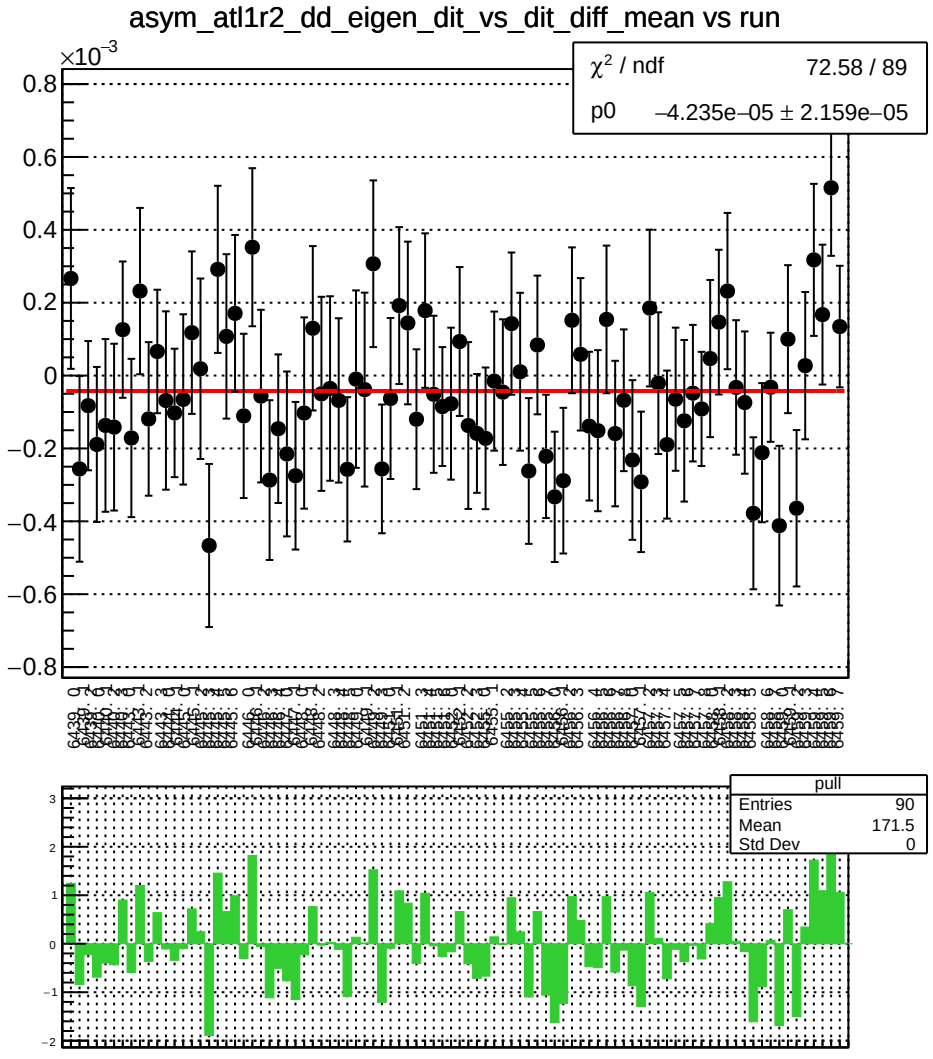

asym_atl1r2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 88.15 / 89
p0 0.106 ± 0.2148
pull
Entries 90
Mean 391.8
Std Dev 0
pull1D
Entries 90
Mean 0.01307
Std Dev 0.9896

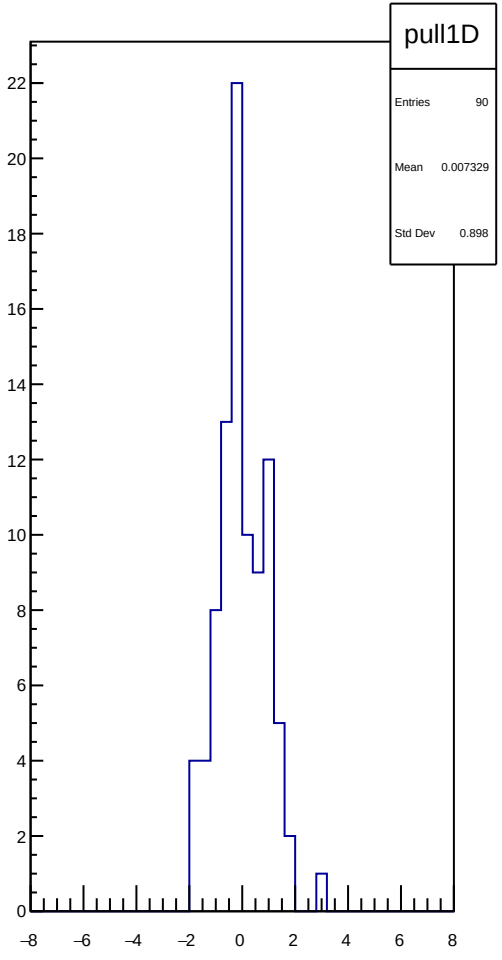

asym_atl1r2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.458e+04 / 89
p0 199 ± 0.1519
450
400
350
300
250
200
150

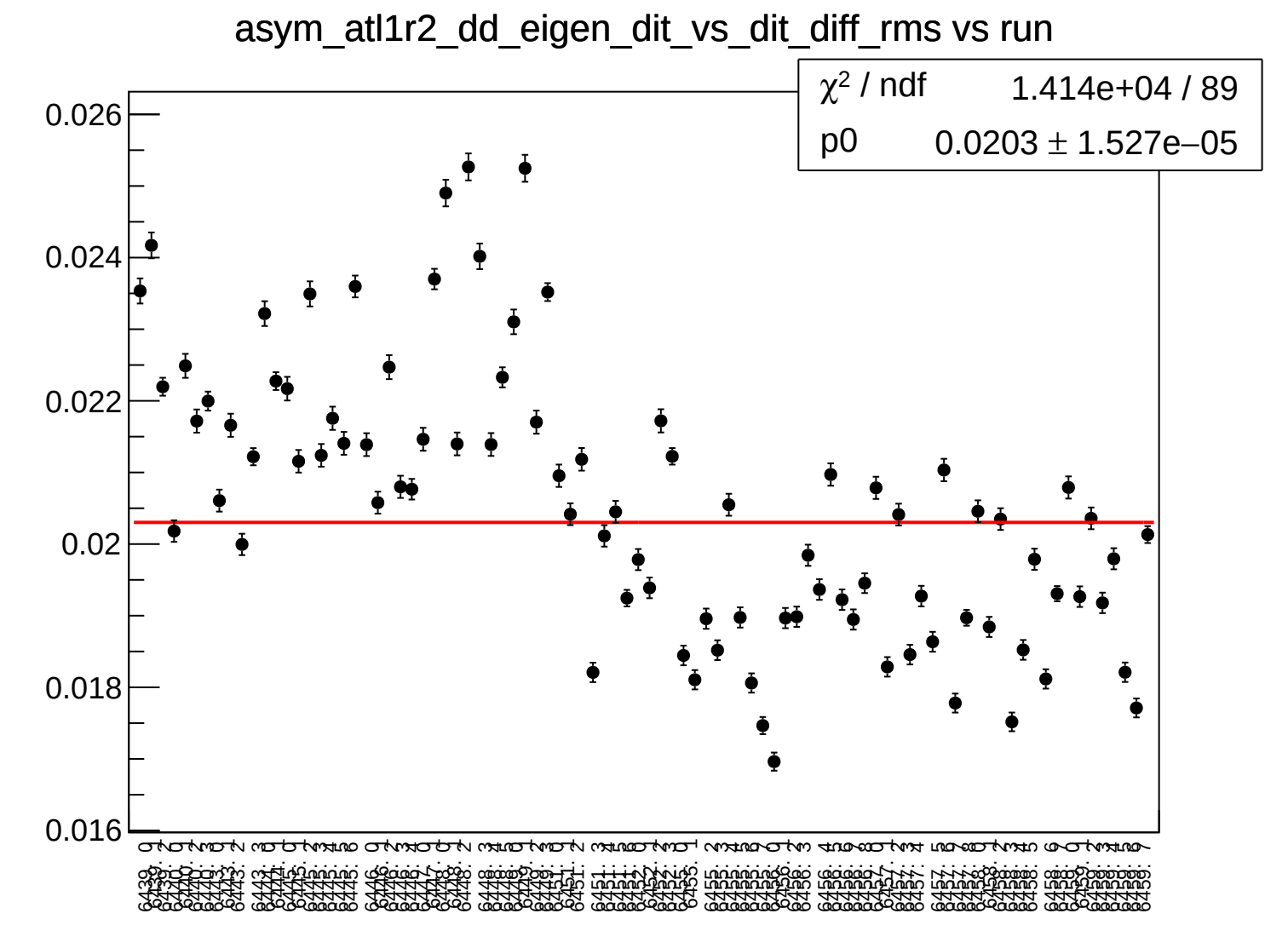

asym_atl1r2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.15 / 89
p0 0.106 ± 0.2148
pull
Entries 90
Mean 391.8
Std Dev 0

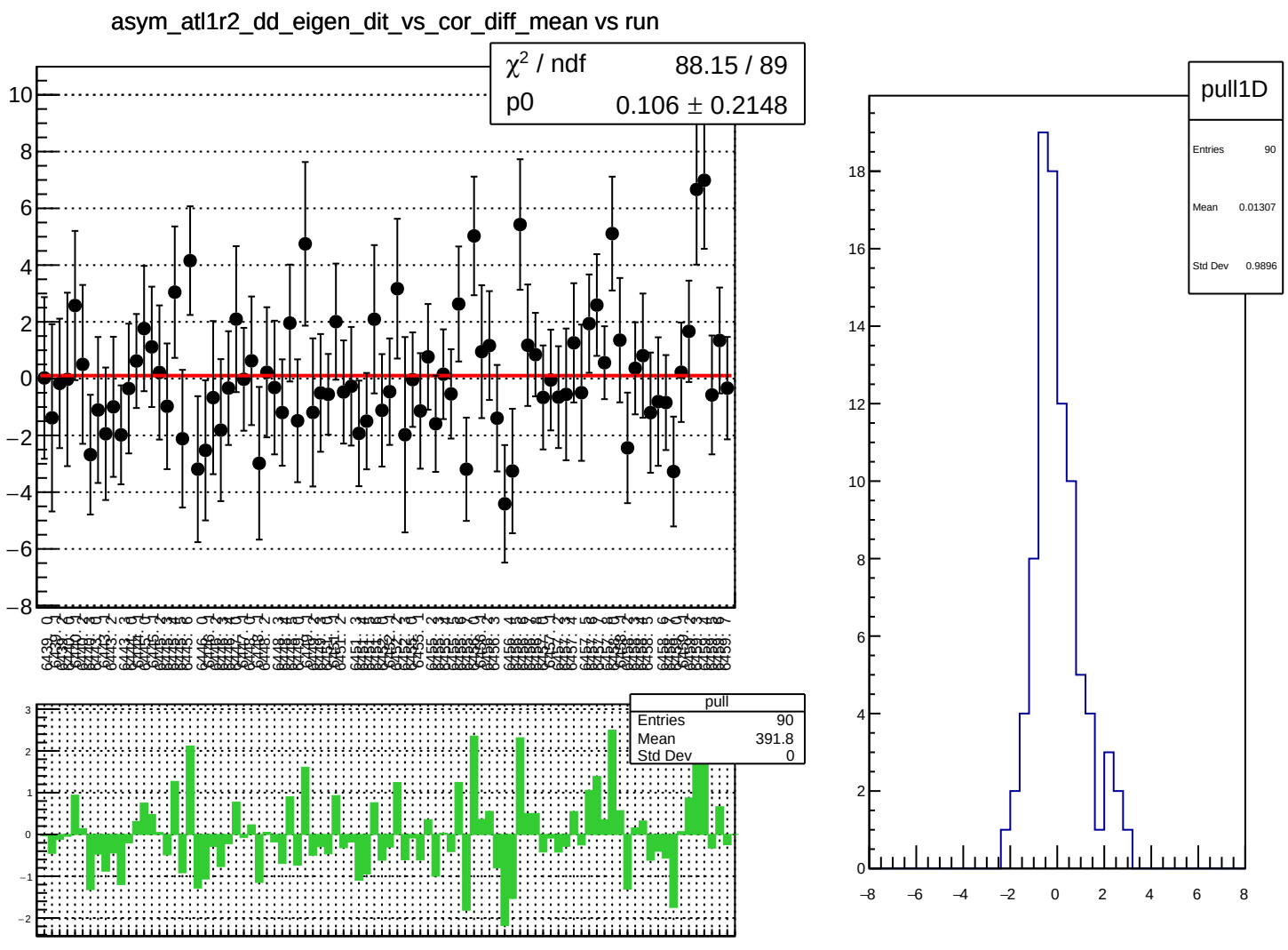

pull1D
Entries 90
Mean 0.01307
Std Dev 0.9896

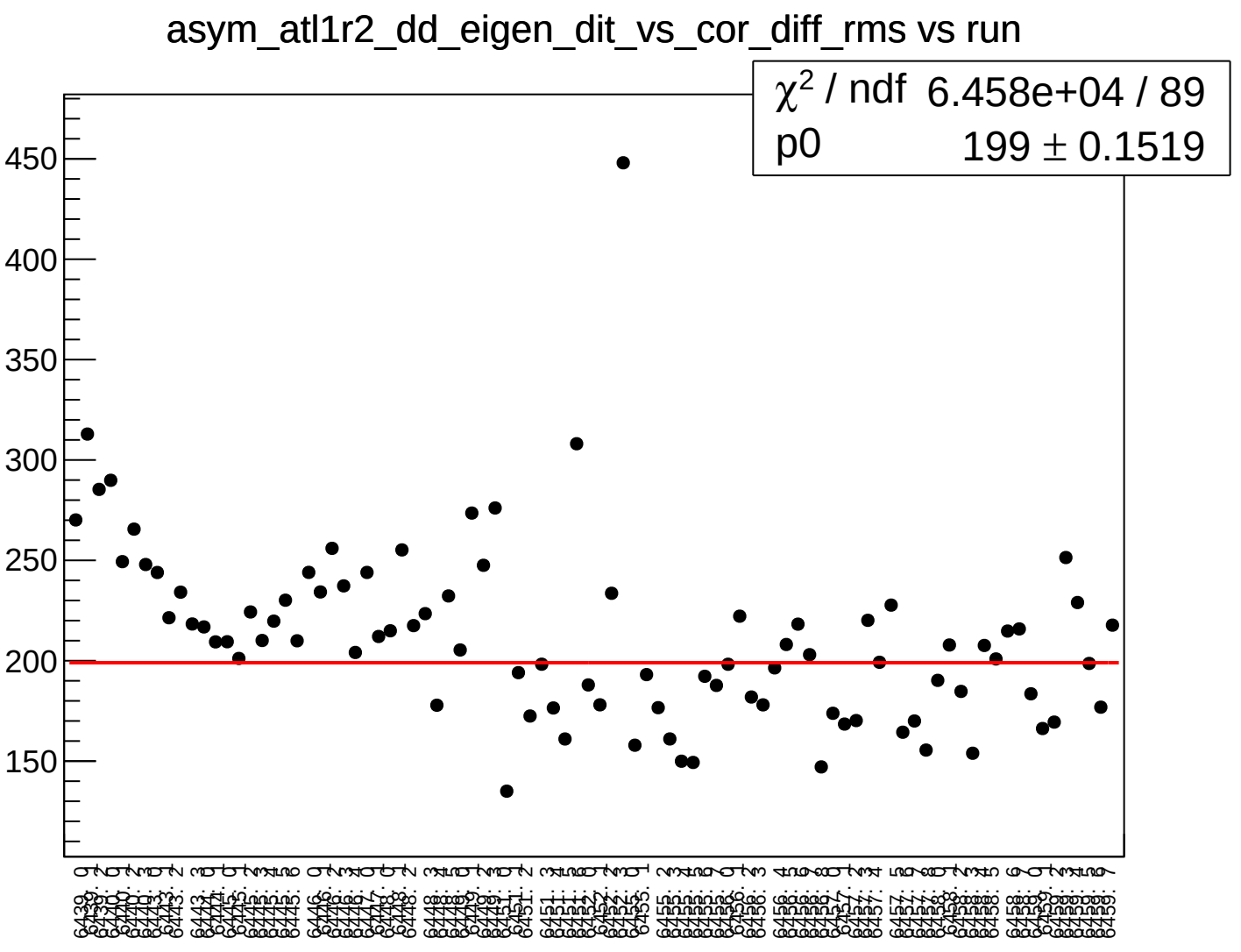

asym_atl1r2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.458e+04 / 89
p0 199 ± 0.1519
450
400
350
300
250
200
150

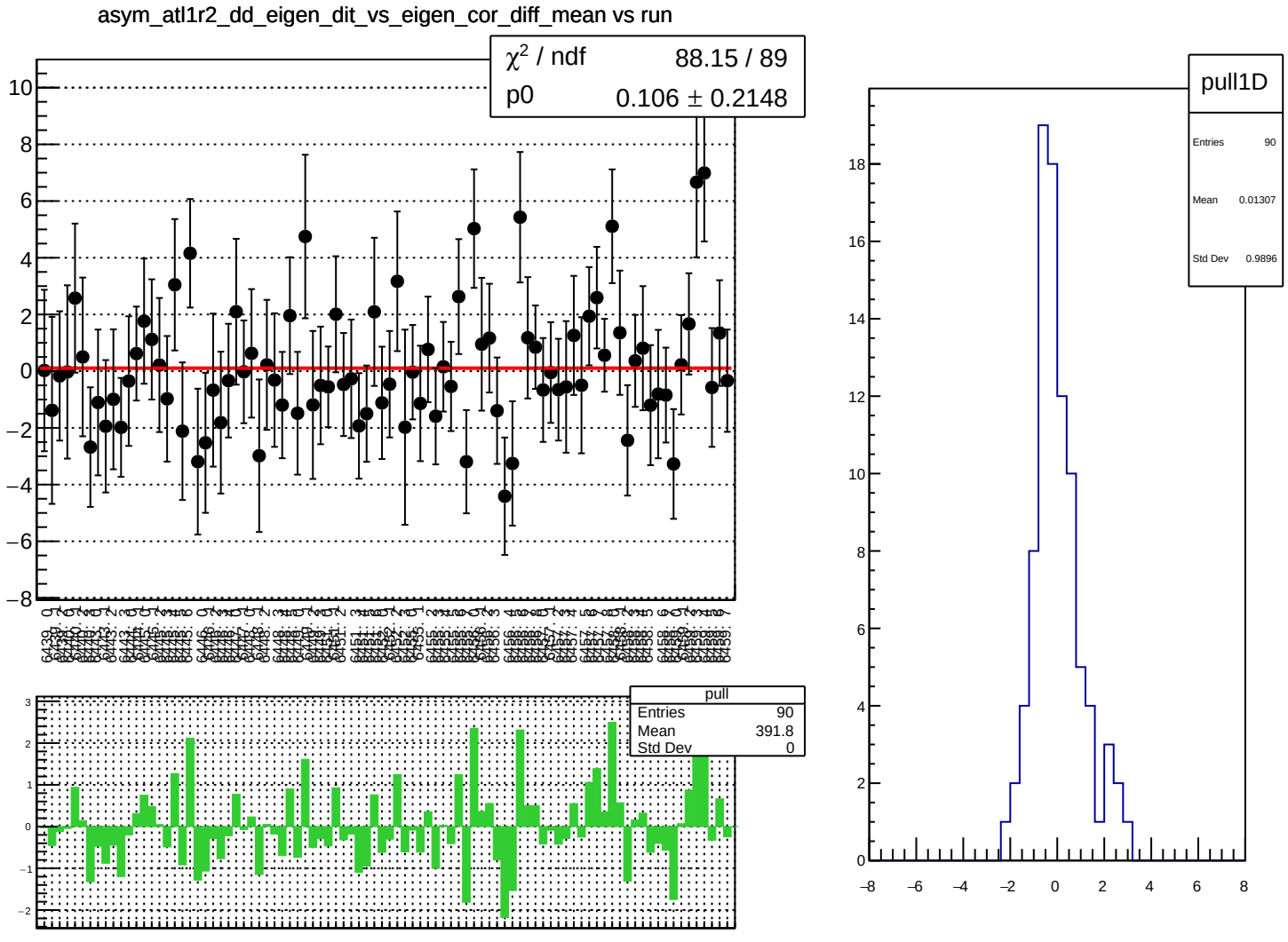

asym_atl1r2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 72.58 / 89
p0 −4.235e−05 ± 2.159e−05
pull
Entries 90
Mean 171.5
Std Dev 0

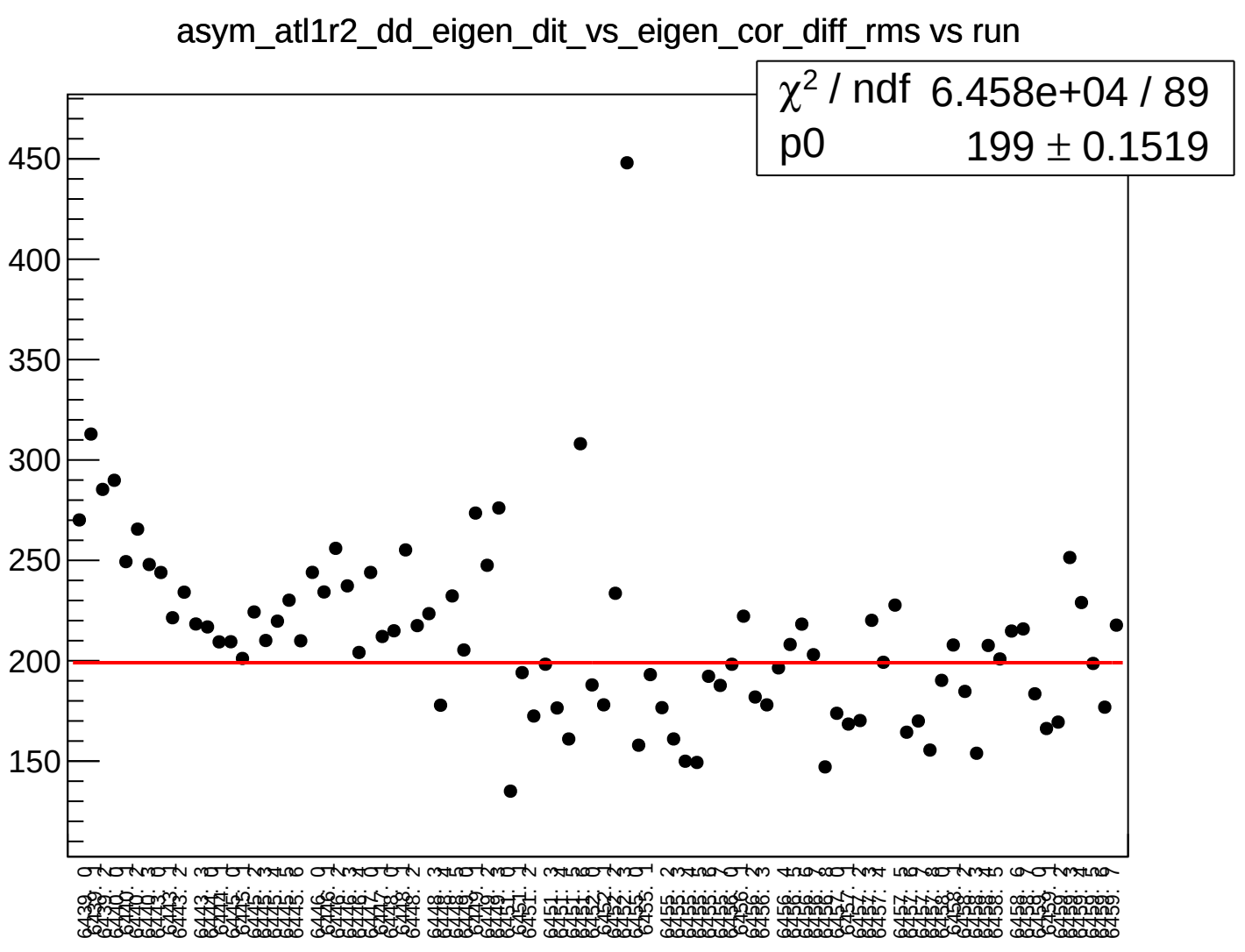

pull1D
Entries 90
Mean 0.007329
Std Dev 0.898

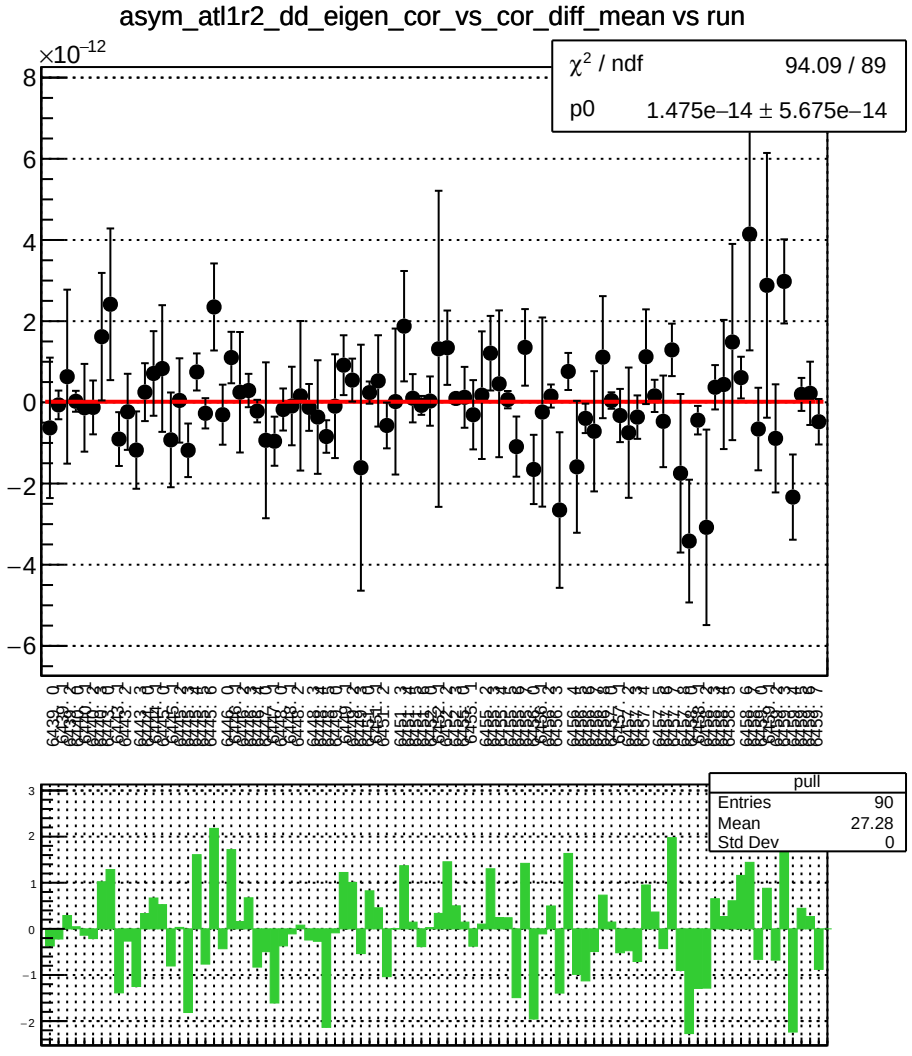

asym_atl1r2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.414e+04 / 89
p0 0.0203 ± 1.527e−05
0.026
0.024
0.022
0.02
0.018
0.016

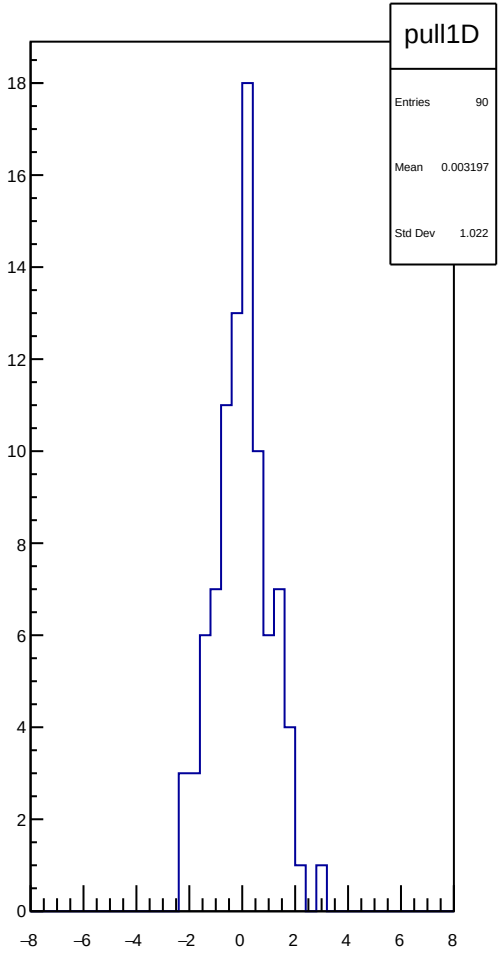

asym_atl1r2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.15 / 89
p0 0.106 ± 0.2148
pull
Entries 90
Mean 391.8
Std Dev 0
pull1D
Entries 90
Mean 0.01307
Std Dev 0.9896

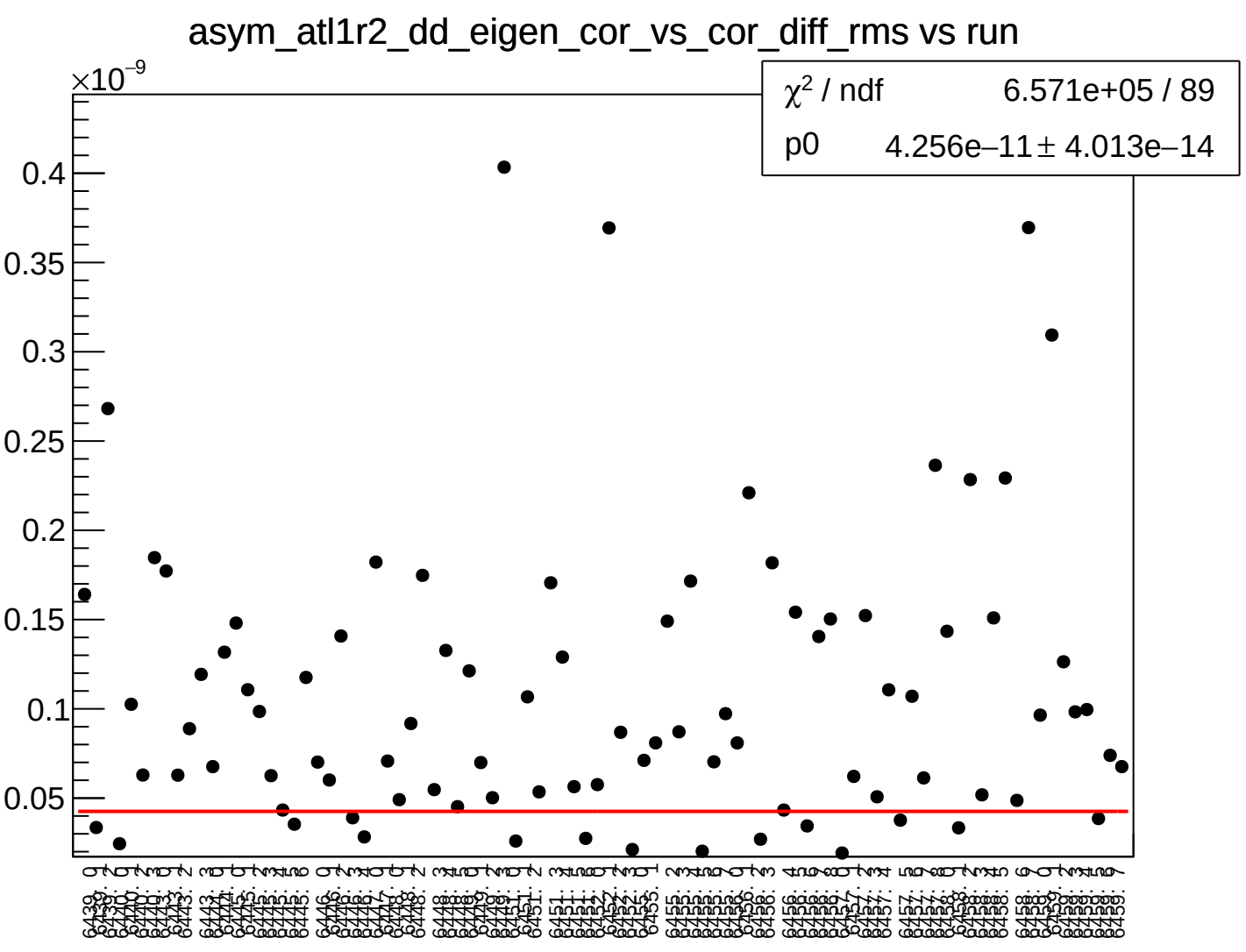

asym_atl1r2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.458e+04 / 89
p0 199 ± 0.1519
450
400
350
300
250
200
150

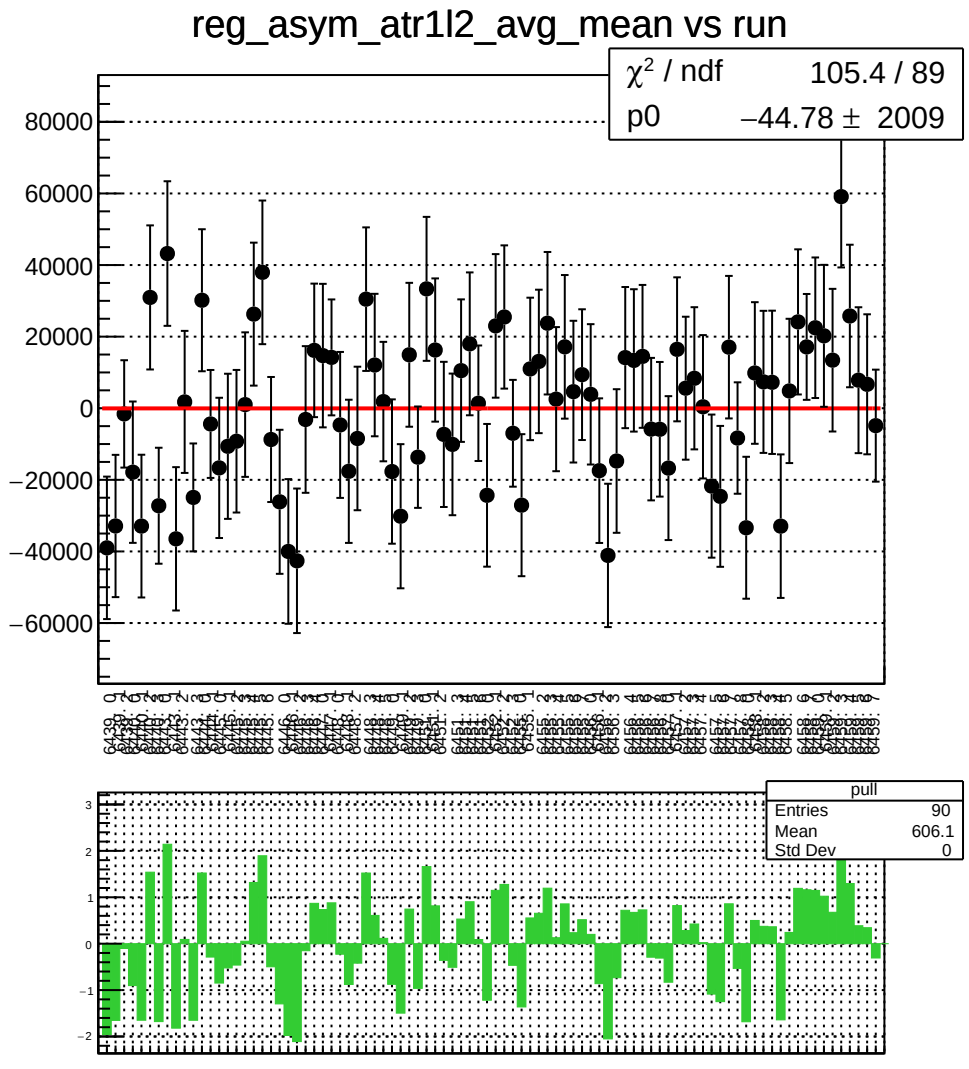

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.15 / 89
p0 0.106 ± 0.2148
pull
Entries 90
Mean 391.8
Std Dev 0
pull1D
Entries 90
Mean 0.01307
Std Dev 0.9896

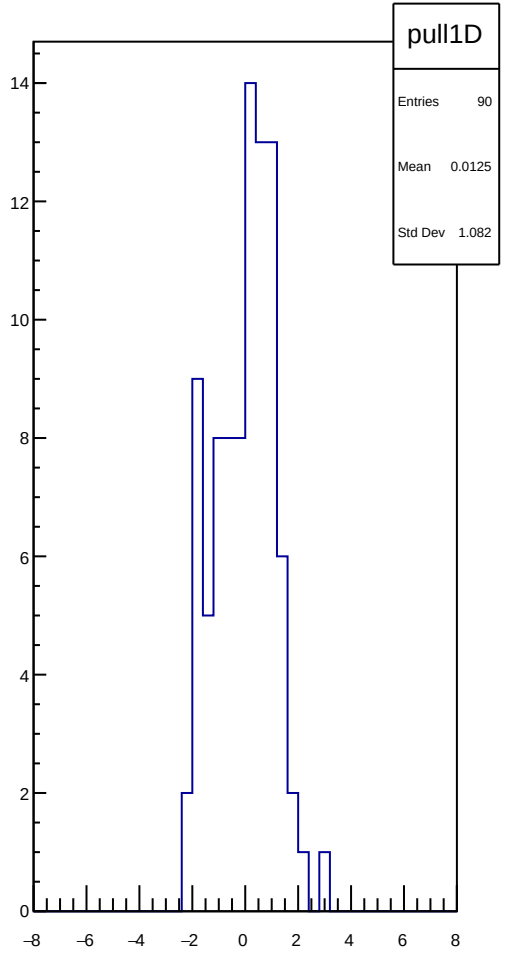

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.458e+04 / 89
p0 199 ± 0.1519
450
400
350
300
250
200
150

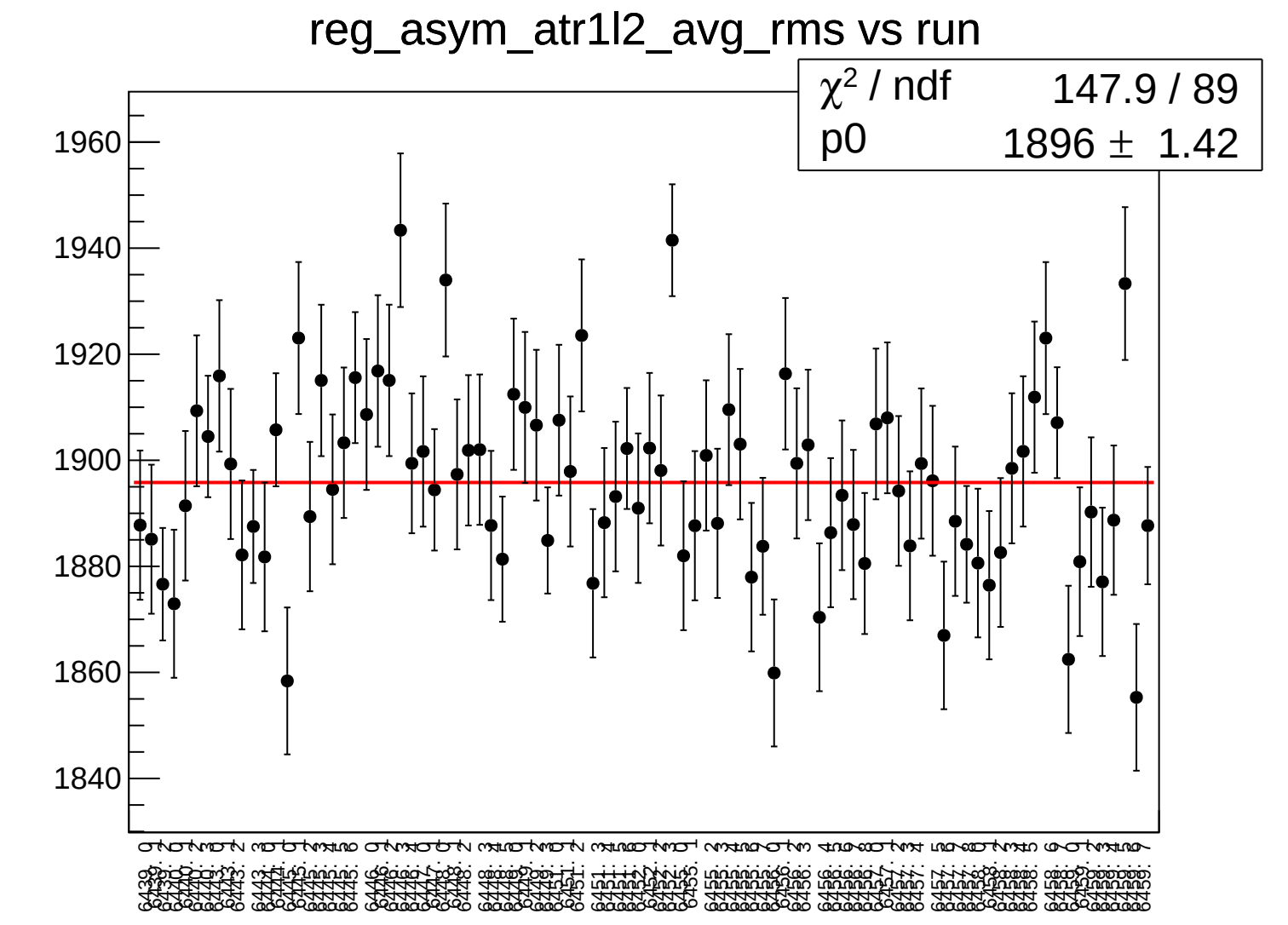

asym_atl1r2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.09 / 89
p0 1.475e−14 ± 5.675e−14
pull
Entries 90
Mean 27.28
Std Dev 0

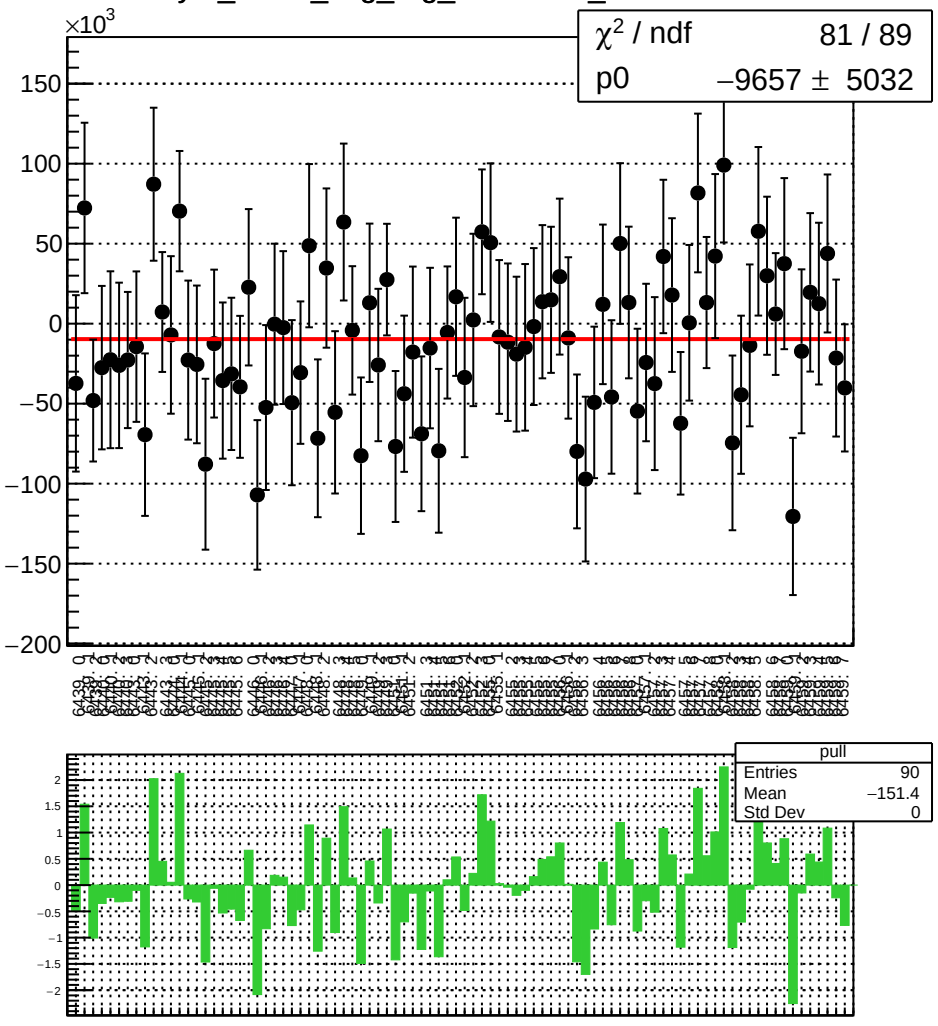

pull1D
Entries 90
Mean 0.003197
Std Dev 1.022

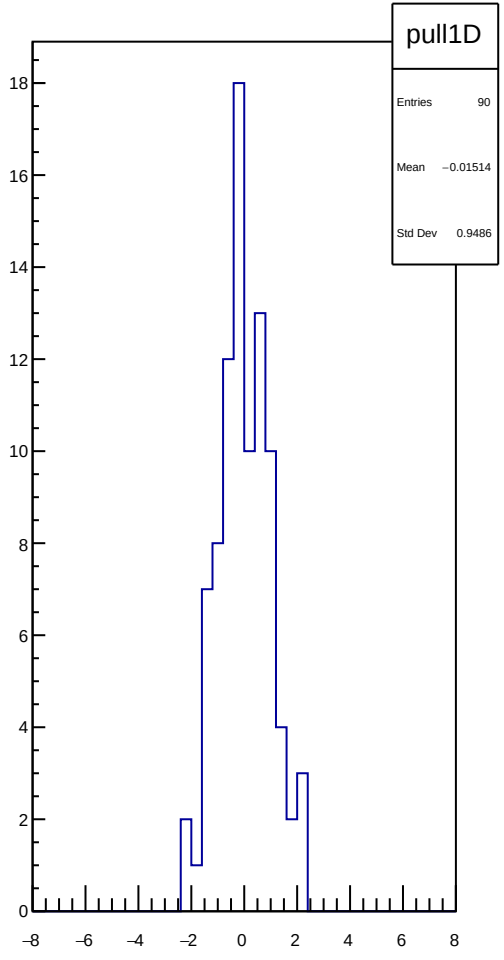

asym_atl1r2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.571e+05 / 89
p0 4.256e−11 ± 4.013e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

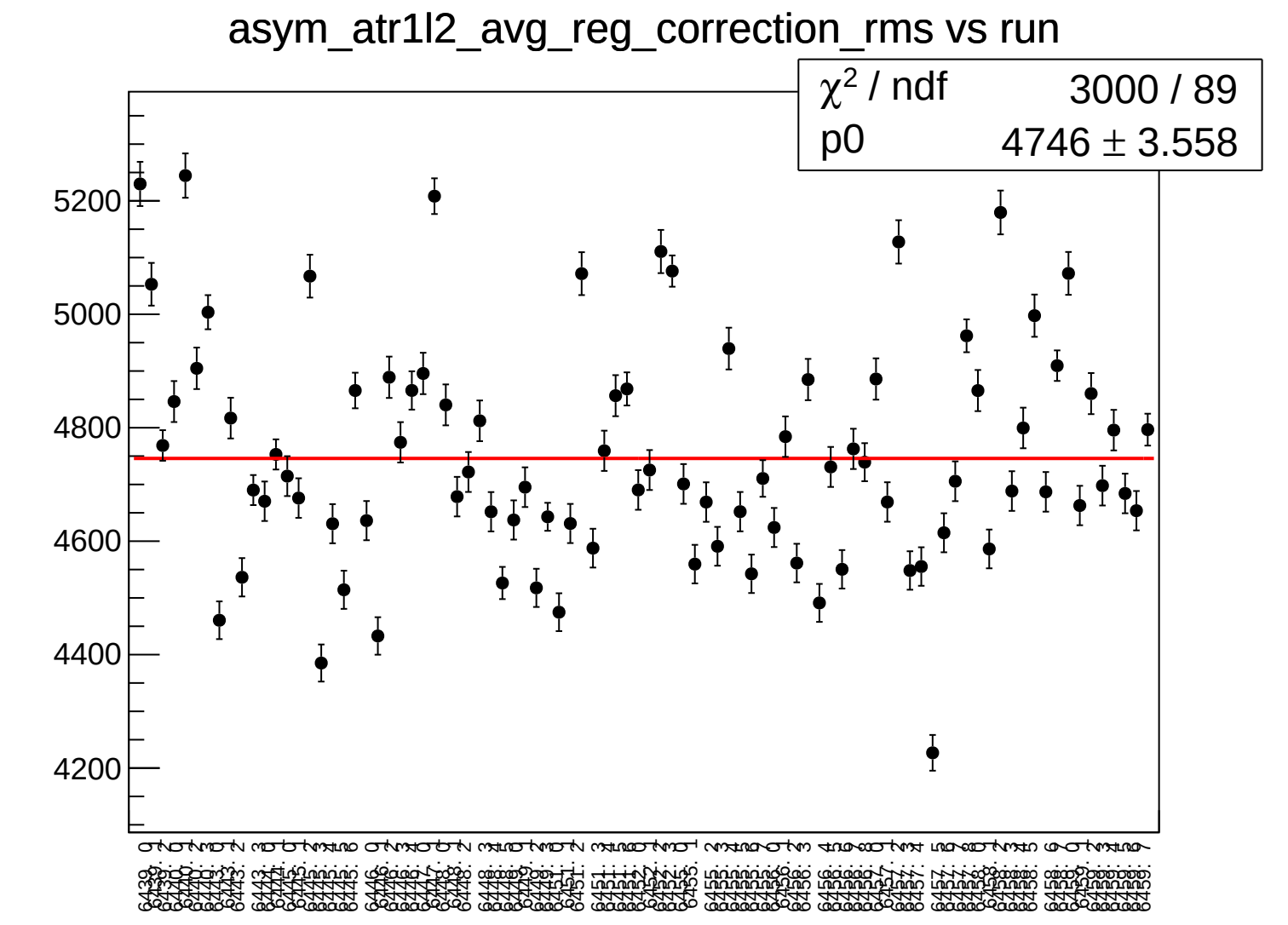

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 105.4 / 89
p0 −44.78 ± 2009
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 606.1
Std Dev 0
3
2
1
0
−1
−2

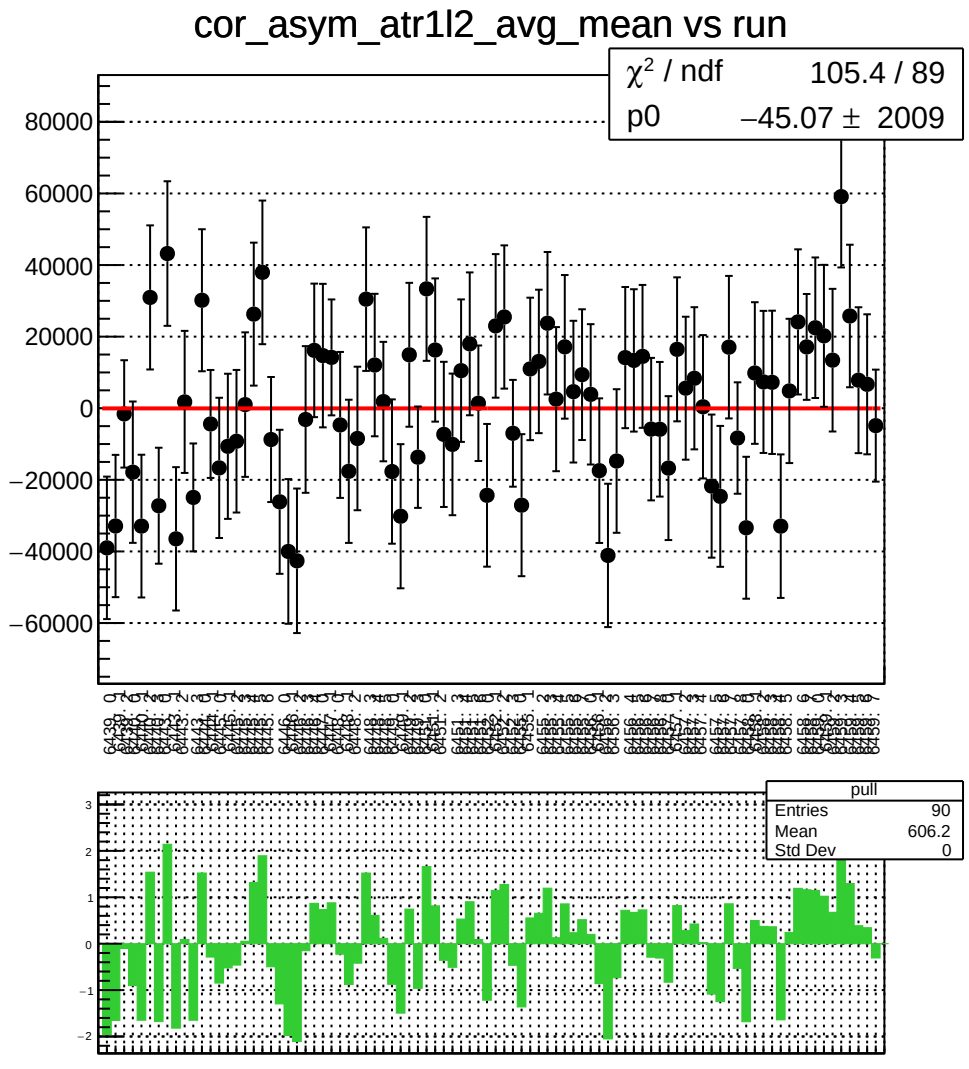

pull1D
Entries 90
Mean 0.0125
Std Dev 1.082
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

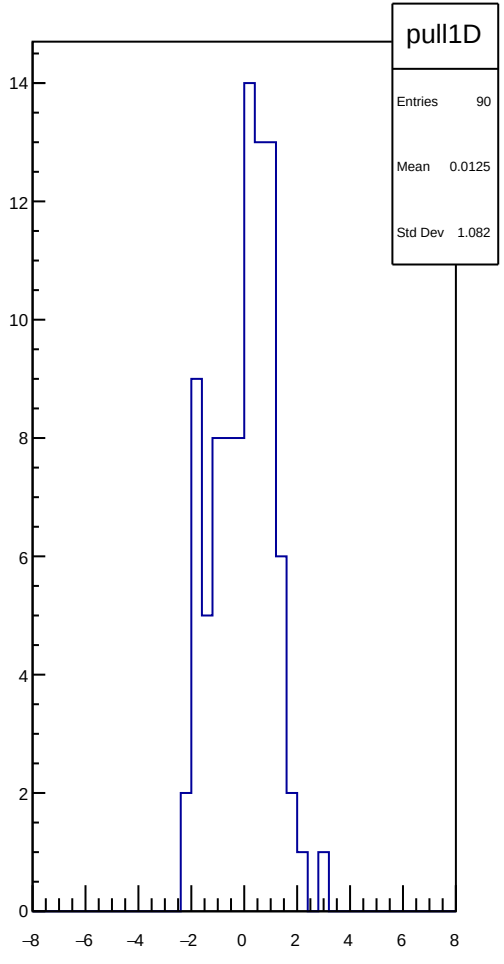

reg_asym_atr1l2_avg_rms vs run
χ² / ndf 147.9 / 89
p0 1896 ± 1.42
1960
1940
1920
1900
1880
1860
1840

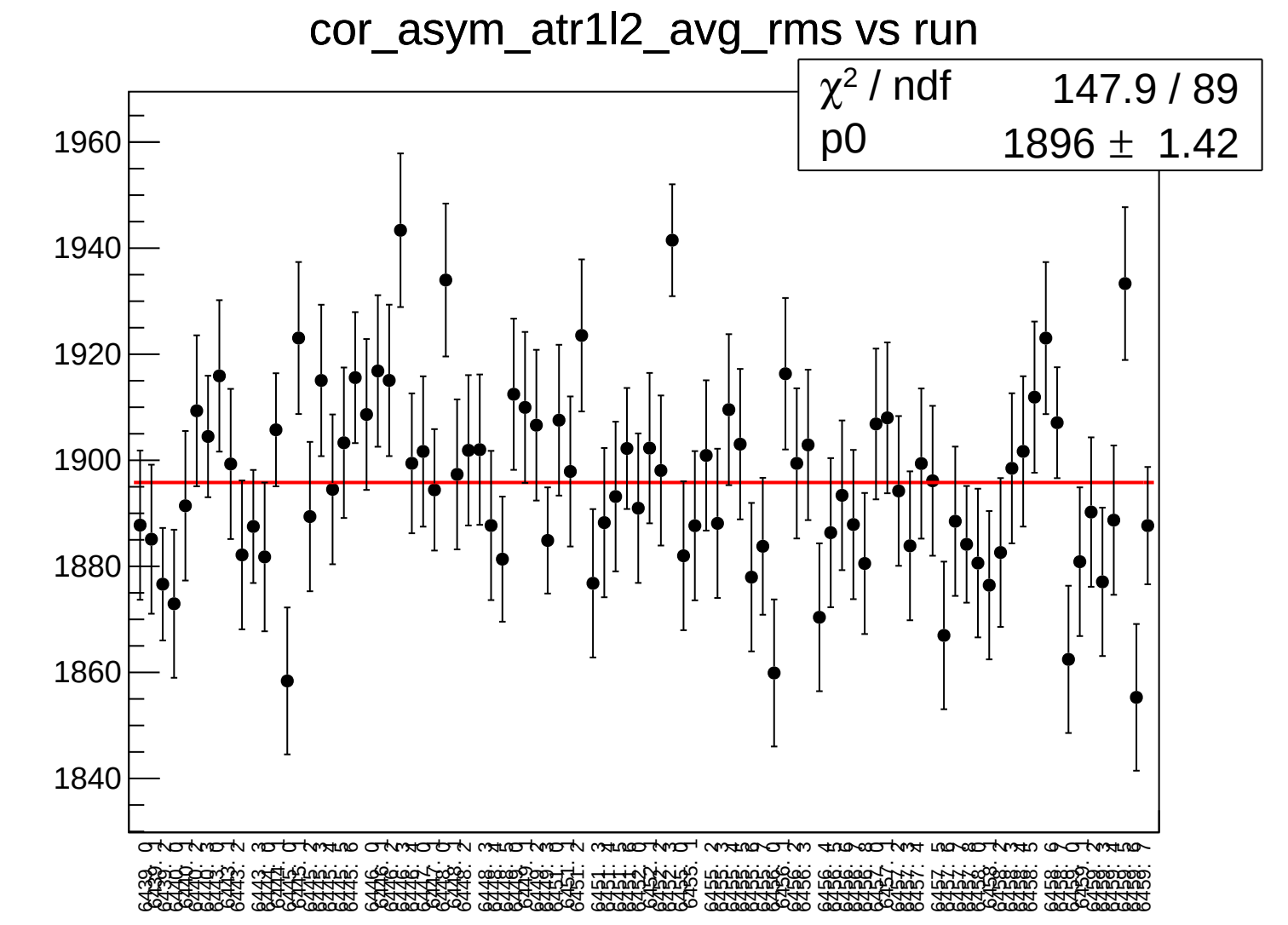

asym_atr1l2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 81 / 89
p0 −9657 ± 5032
150
100
50
0
−50
−100
−150
−200
pull
Entries 90
Mean −151.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

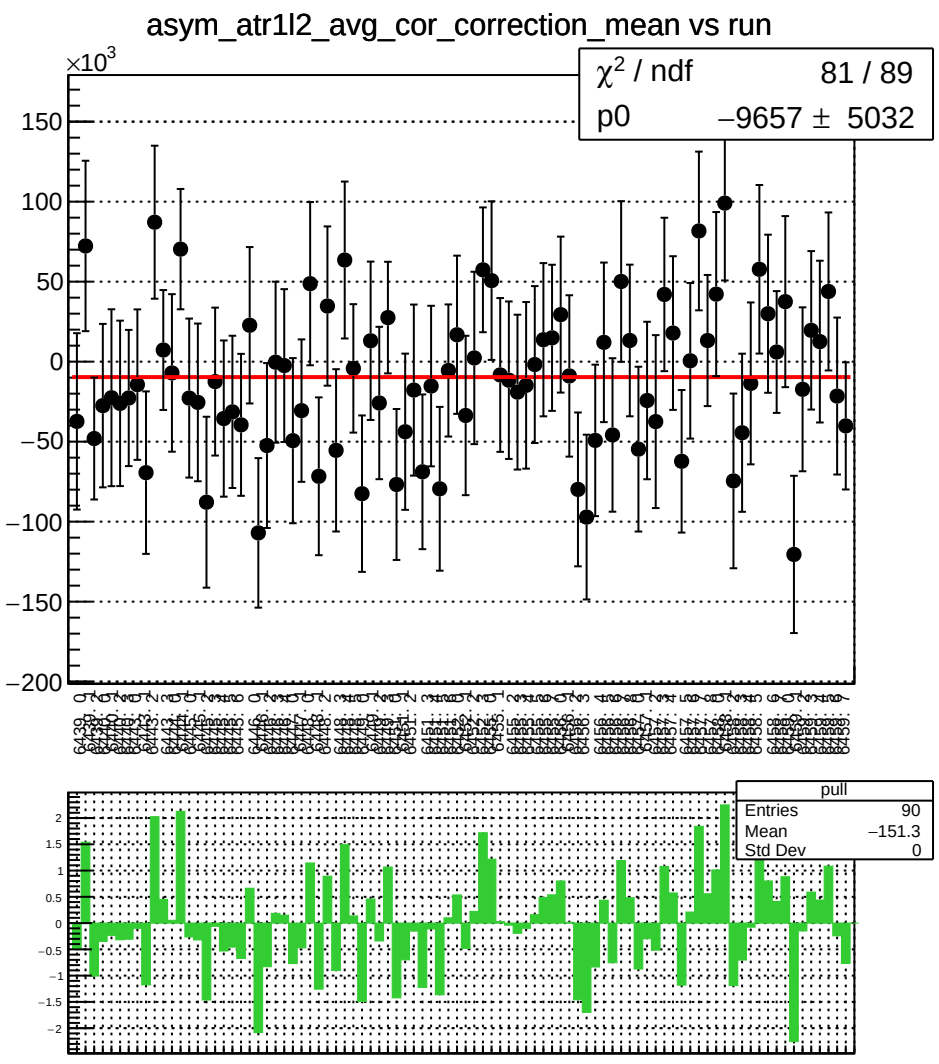

pull1D
Entries 90
Mean −0.01514
Std Dev 0.9486
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

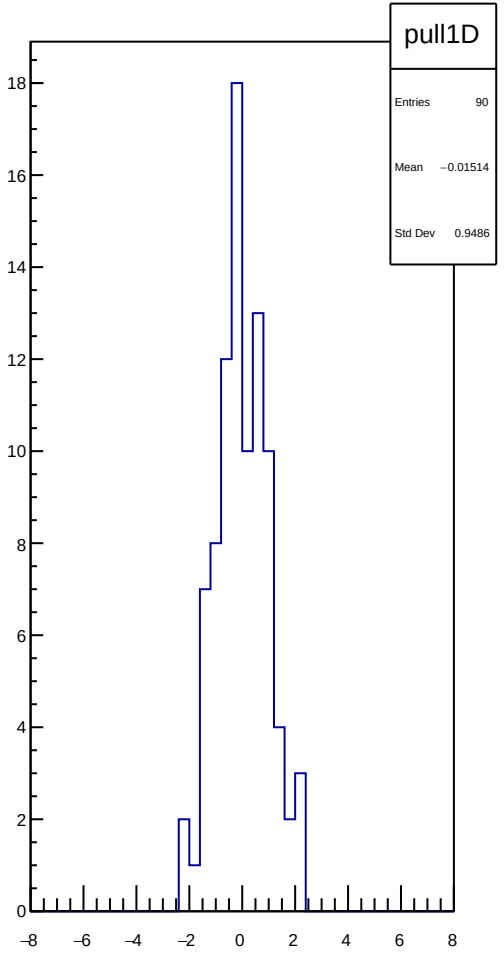

asym_atr1l2_avg_reg_correction_rms vs run
χ² / ndf 3000 / 89
p0 4746 ± 3.558
5200
5000
4800
4600
4400
4200

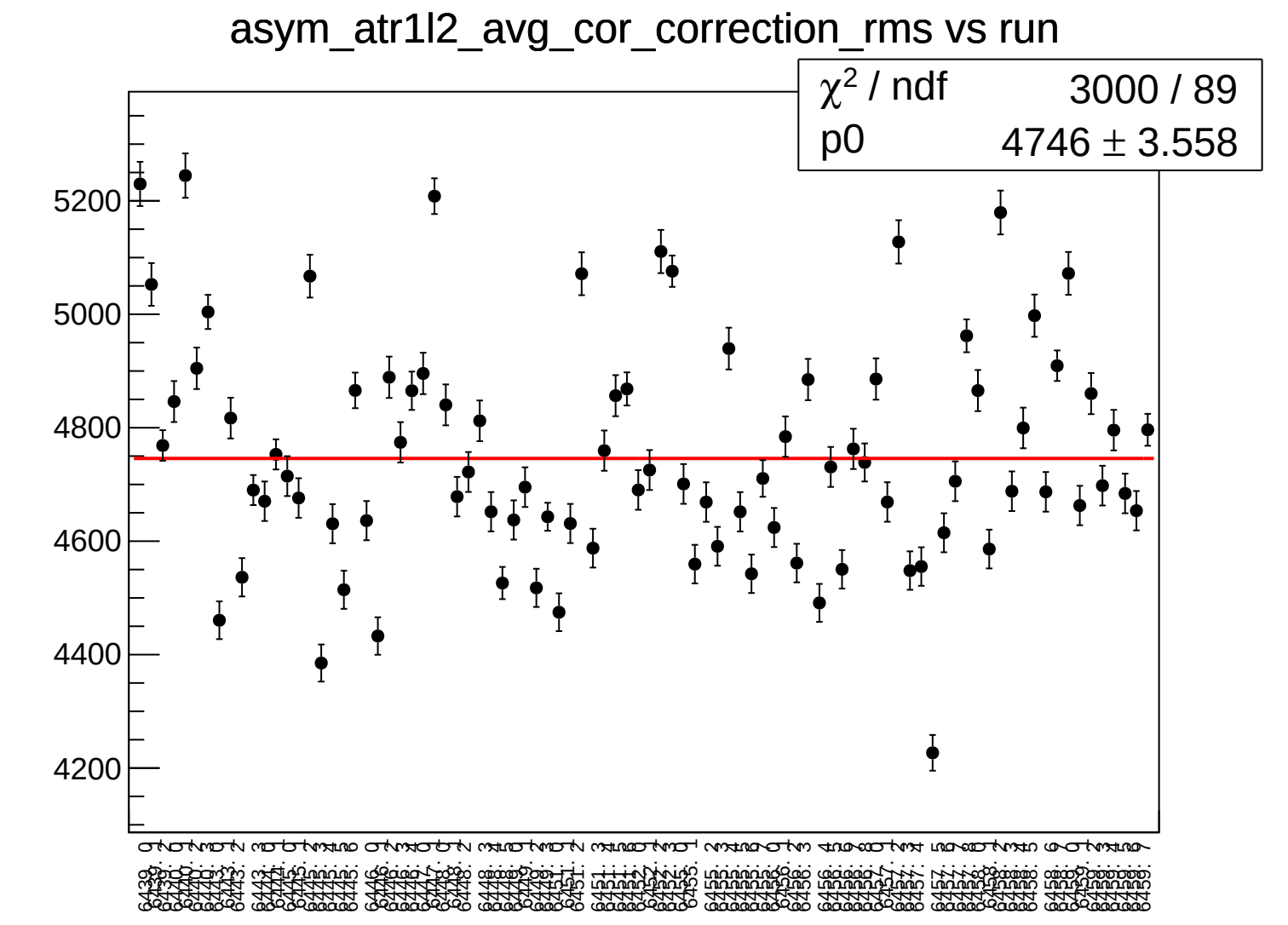

cor_asym_atr1l2_avg_mean vs run
χ² / ndf 105.4 / 89
p0 −45.07 ± 2009
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 606.2
Std Dev 0
3
2
1
0
−1
−2

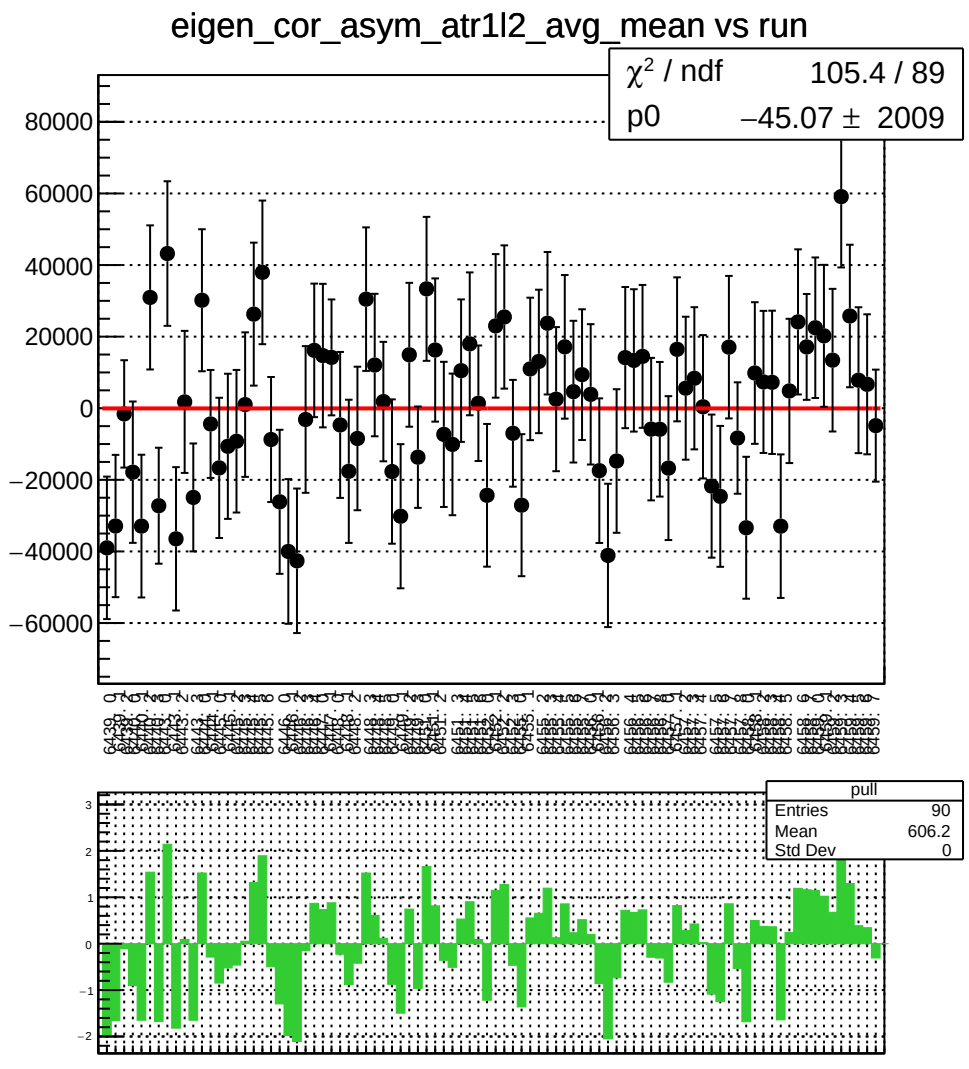

pull1D
Entries 90
Mean 0.0125
Std Dev 1.082
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

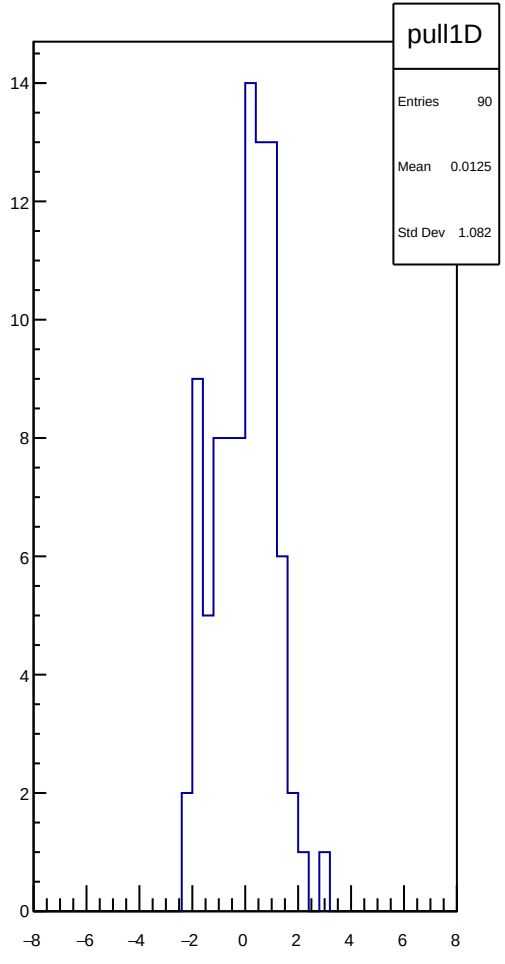

cor_asym_atr1l2_avg_rms vs run
χ² / ndf 147.9 / 89
p0 1896 ± 1.42
1960
1940
1920
1900
1880
1860
1840

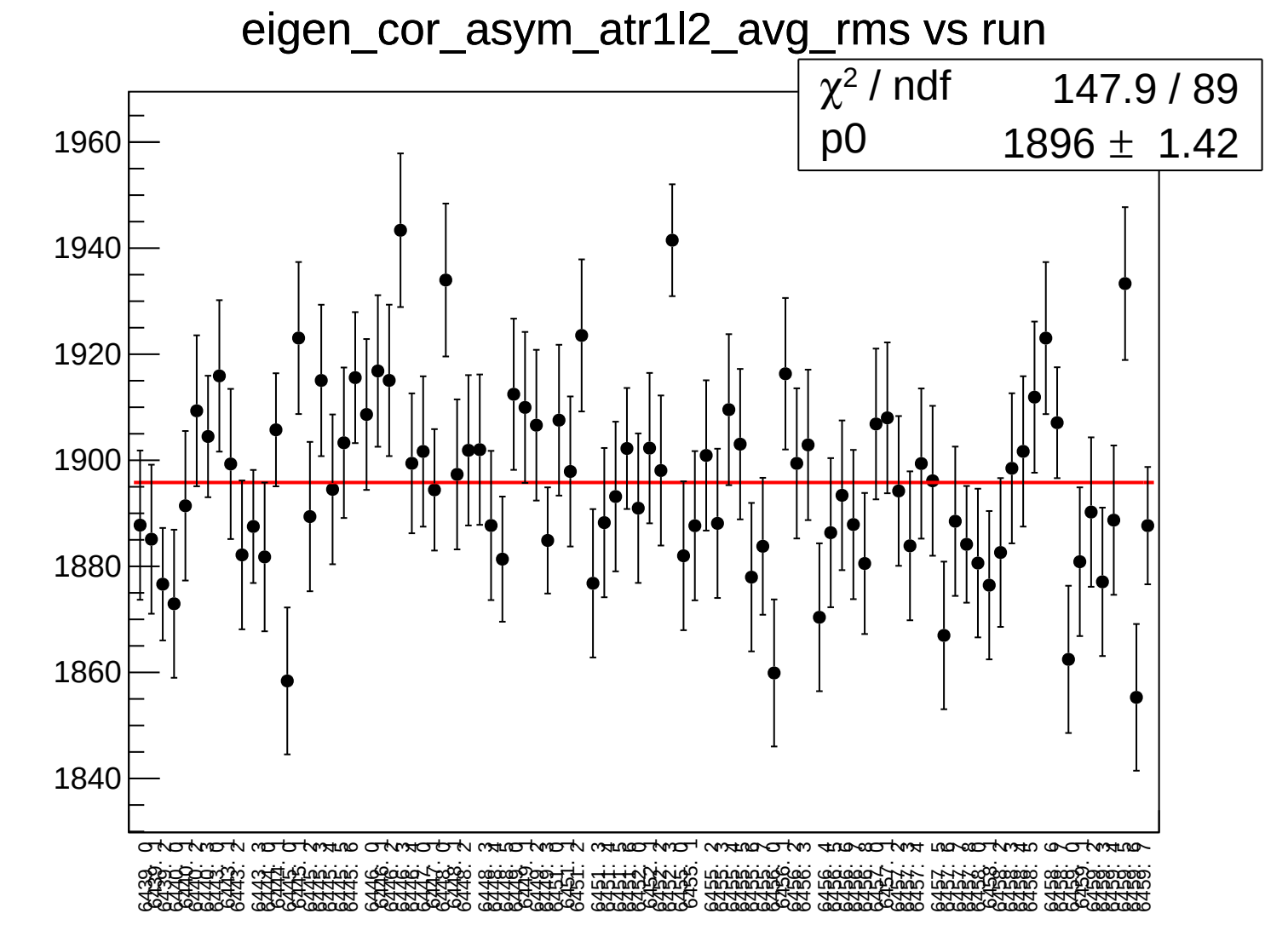

asym_atr1l2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 81 / 89
p0 −9657 ± 5032
150
100
50
0
−50
−100
−150
−200
pull
Entries 90
Mean −151.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

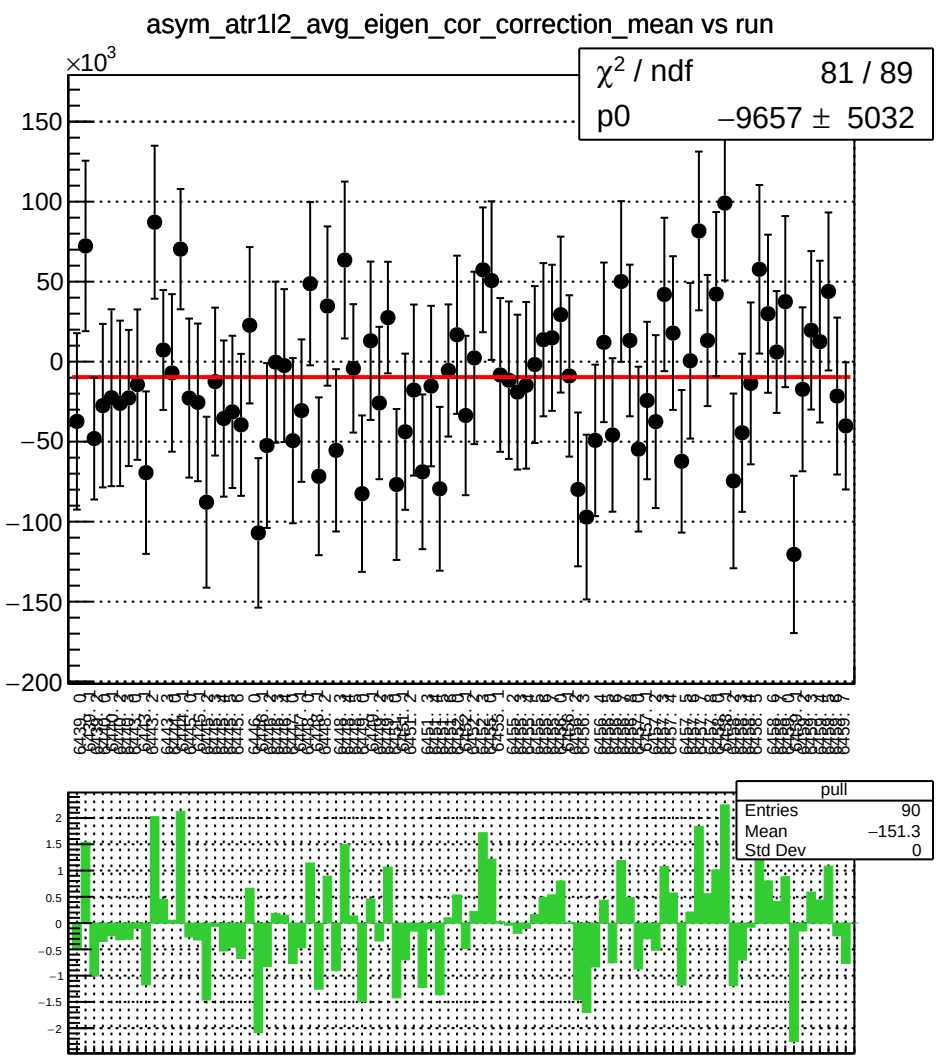

pull1D
Entries 90
Mean −0.01514
Std Dev 0.9486
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

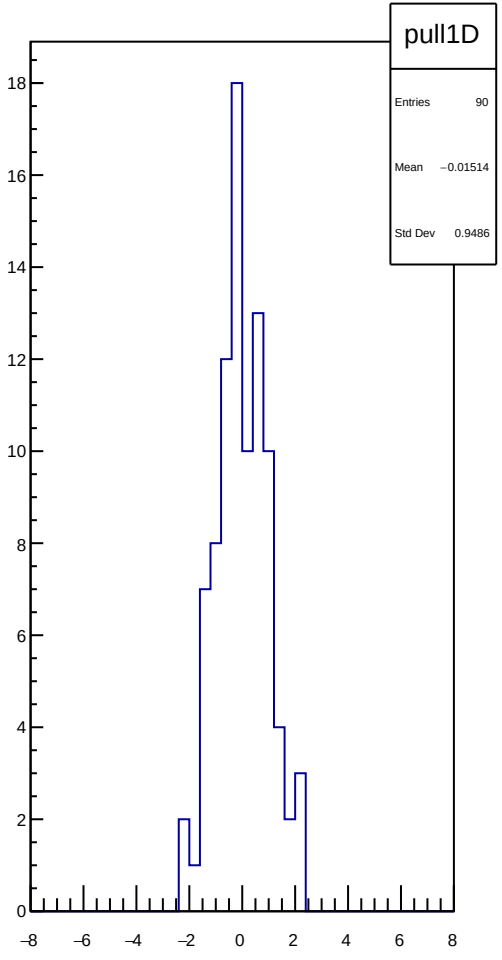

asym_atr1l2_avg_cor_correction_rms vs run
χ² / ndf 3000 / 89
p0 4746 ± 3.558
5200
5000
4800
4600
4400
4200

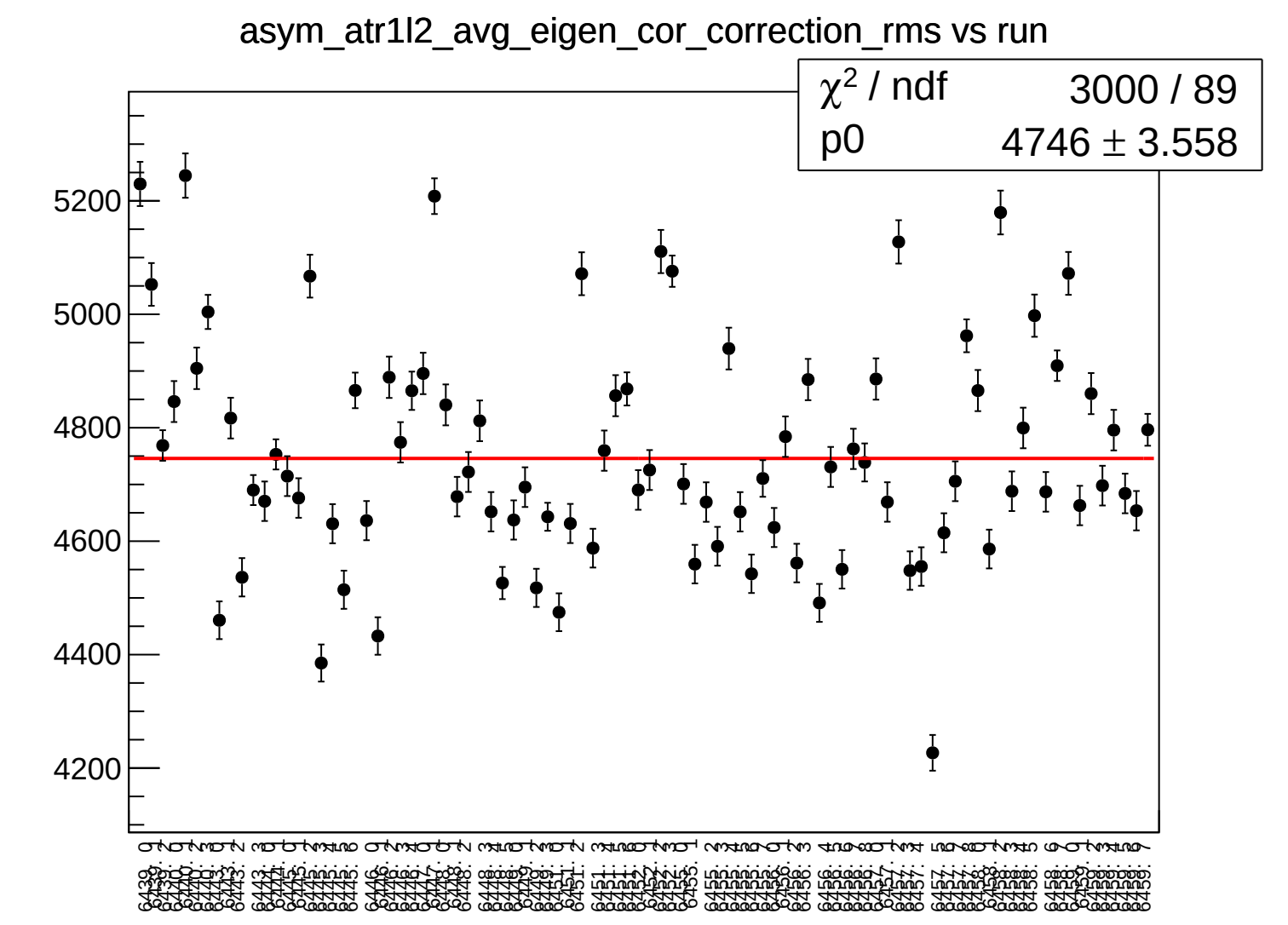

eigen_cor_asym_atr1l2_avg_mean vs run
χ² / ndf 105.4 / 89
p0 −45.07 ± 2009
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 606.2
Std Dev 0
3
2
1
0
−1
−2

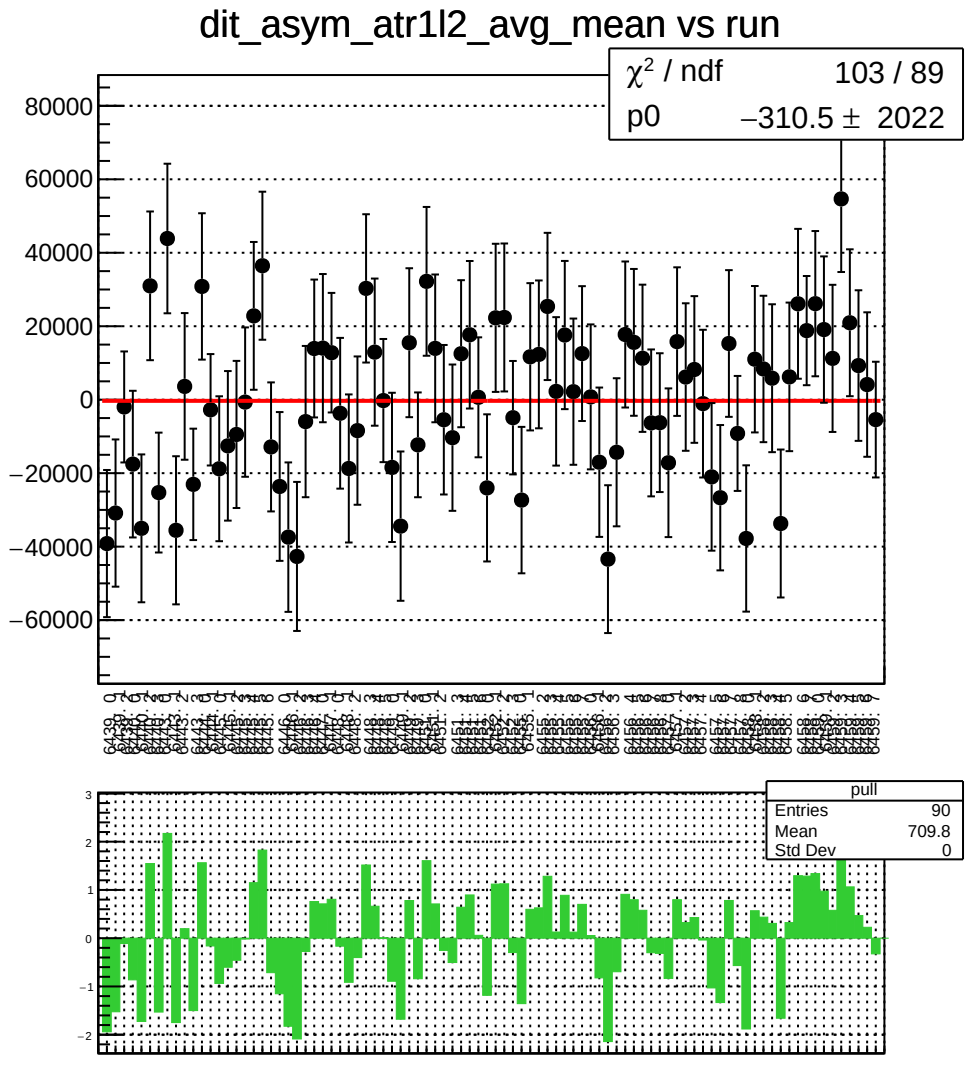

pull1D
Entries 90
Mean 0.0125
Std Dev 1.082
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

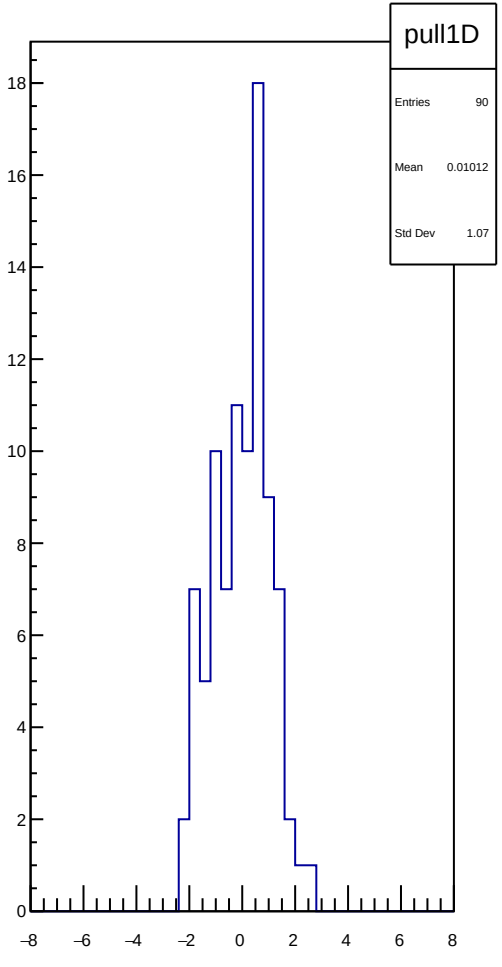

eigen_cor_asym_atr1l2_avg_rms vs run
χ² / ndf 147.9 / 89
p0 1896 ± 1.42
1960
1940
1920
1900
1880
1860
1840

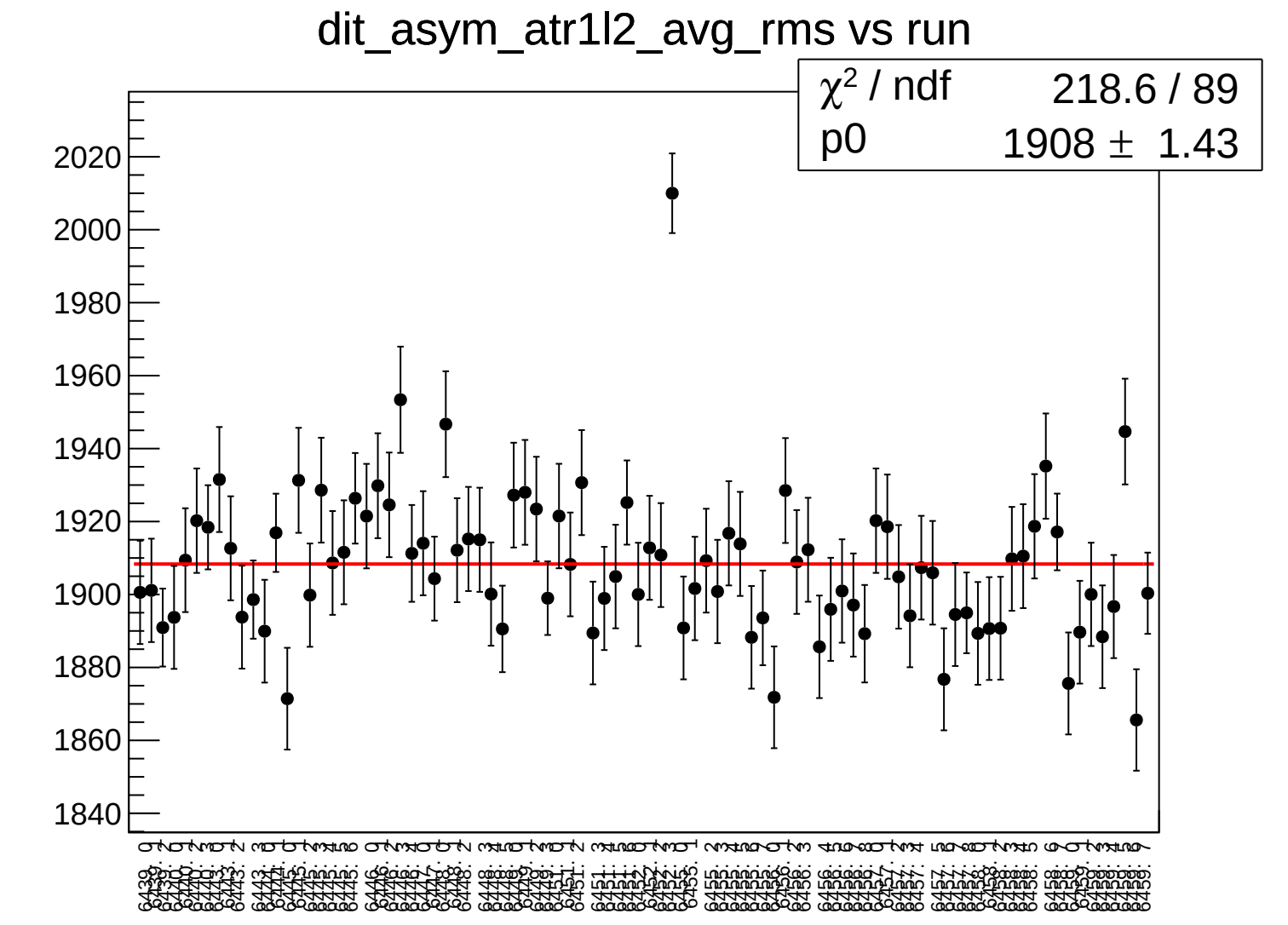

asym_atr1l2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 81 / 89
p0 −9657 ± 5032
150
100
50
0
−50
−100
−150
−200
pull
Entries 90
Mean −151.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

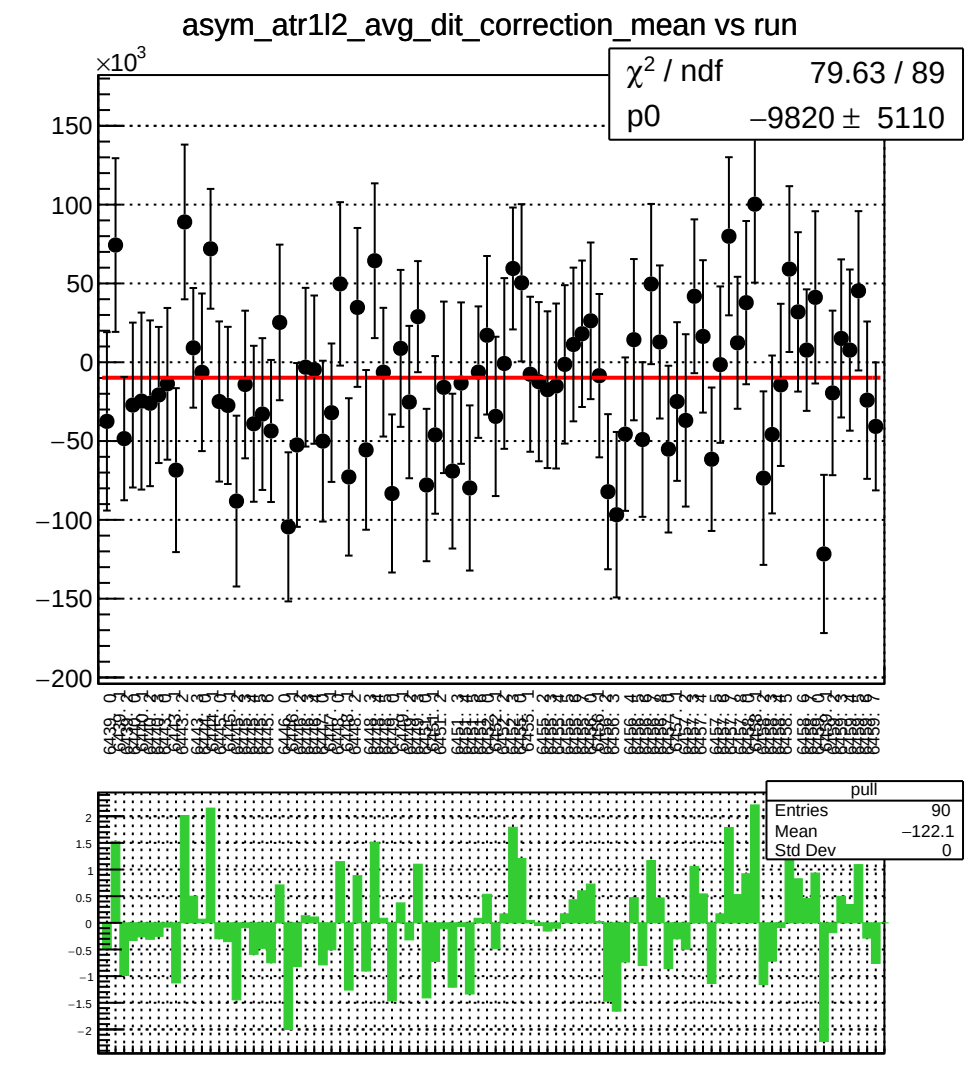

pull1D
Entries 90
Mean −0.01514
Std Dev 0.9486
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

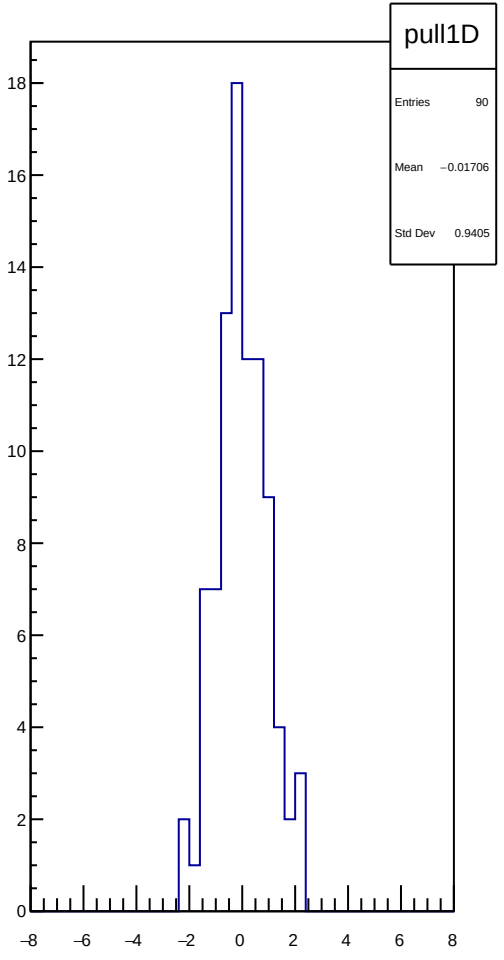

asym_atr1l2_avg_eigen_cor_correction_rms vs run
χ² / ndf 3000 / 89
p0 4746 ± 3.558
5200
5000
4800
4600
4400
4200

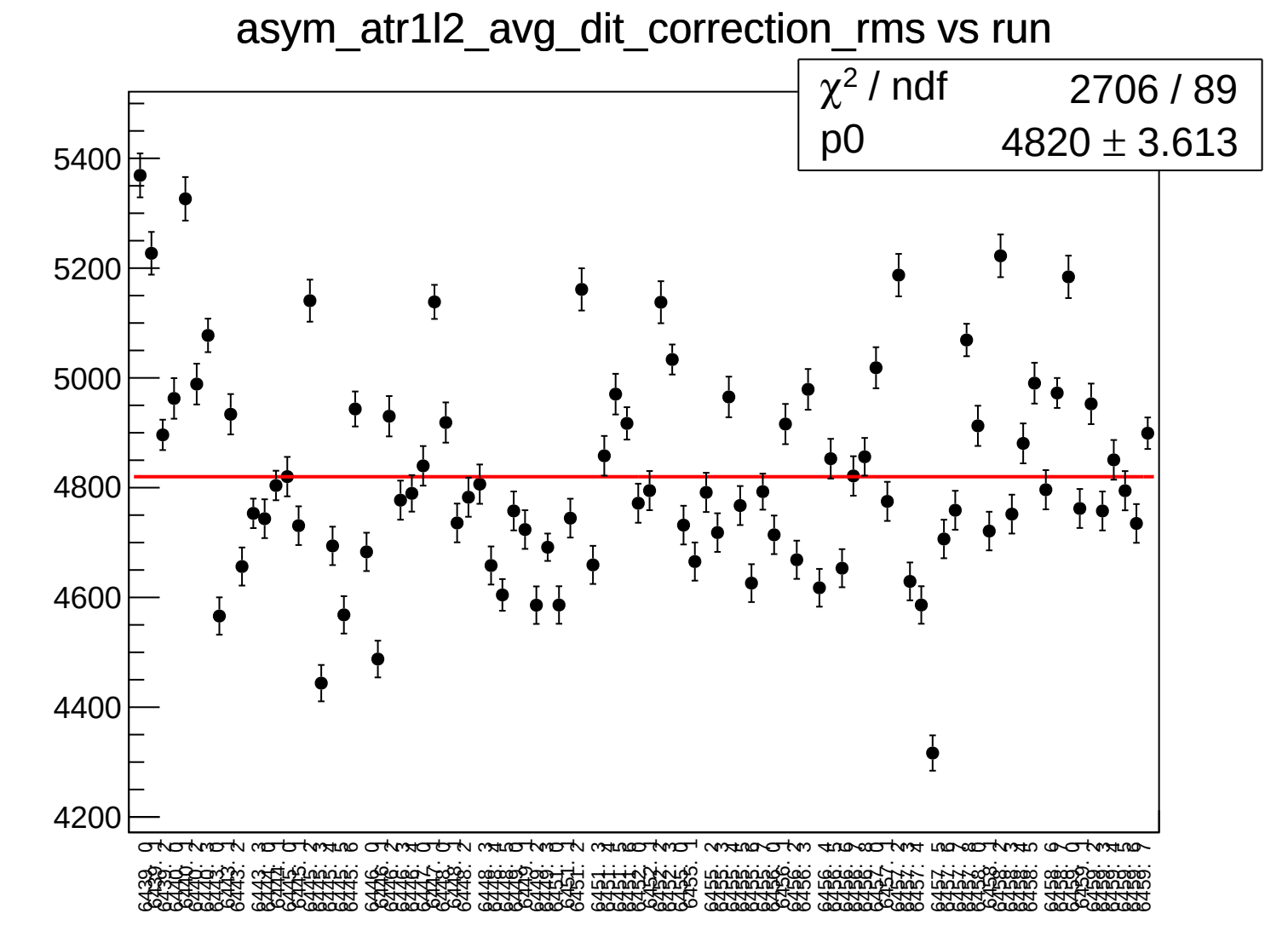

dit_asym_atr1l2_avg_mean vs run
χ² / ndf 103 / 89
p0 −310.5 ± 2022
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 709.8
Std Dev 0
3
2
1
0
−1
−2

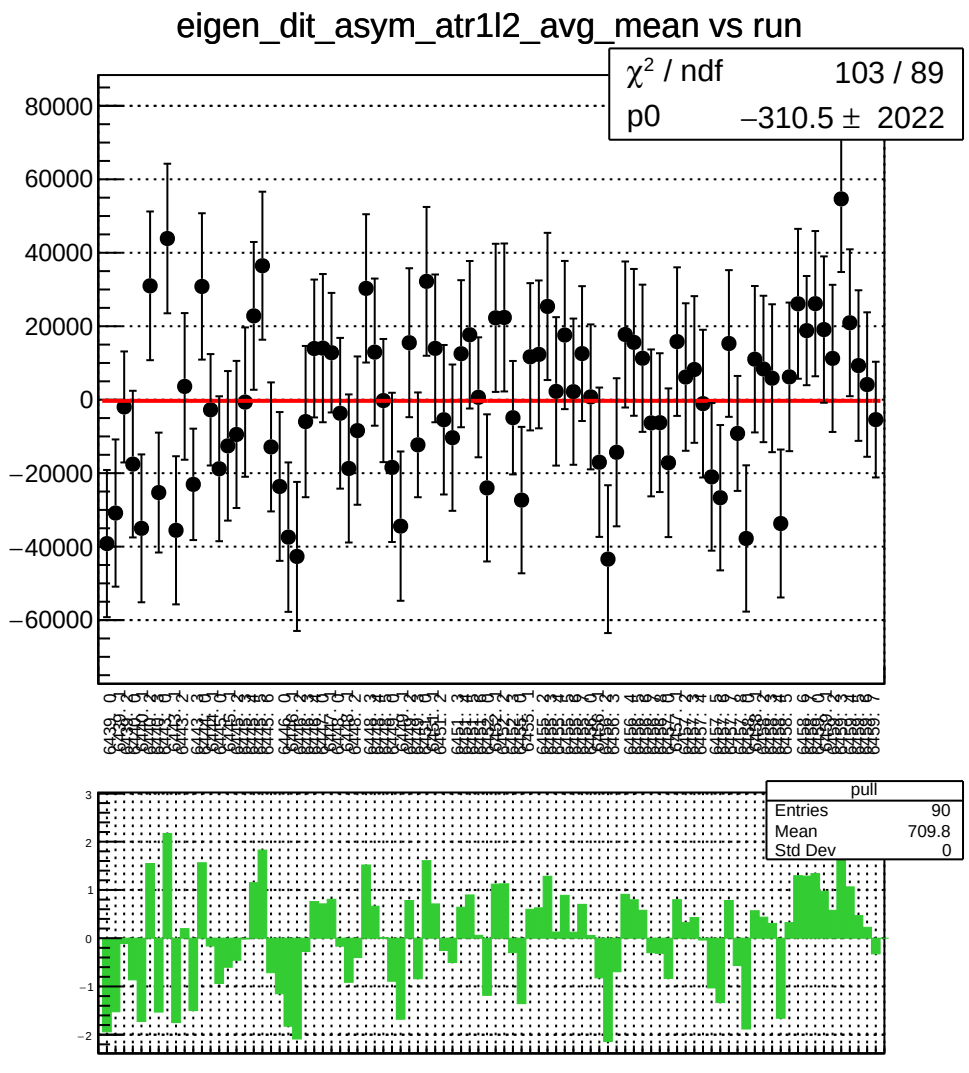

pull1D
Entries 90
Mean 0.01012
Std Dev 1.07
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

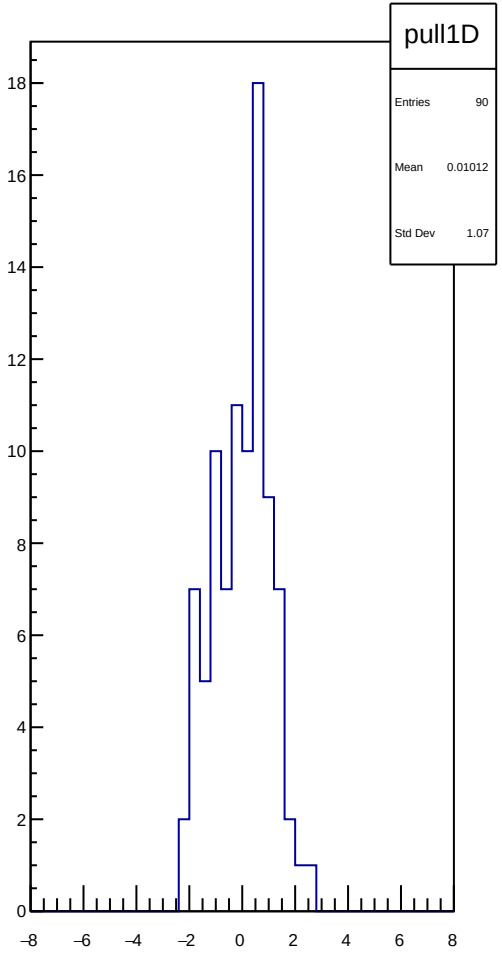

dit_asym_atr1l2_avg_rms vs run
χ² / ndf 218.6 / 89
p0 1908 ± 1.43
2020
2000
1980
1960
1940
1920
1900
1880
1860
1840

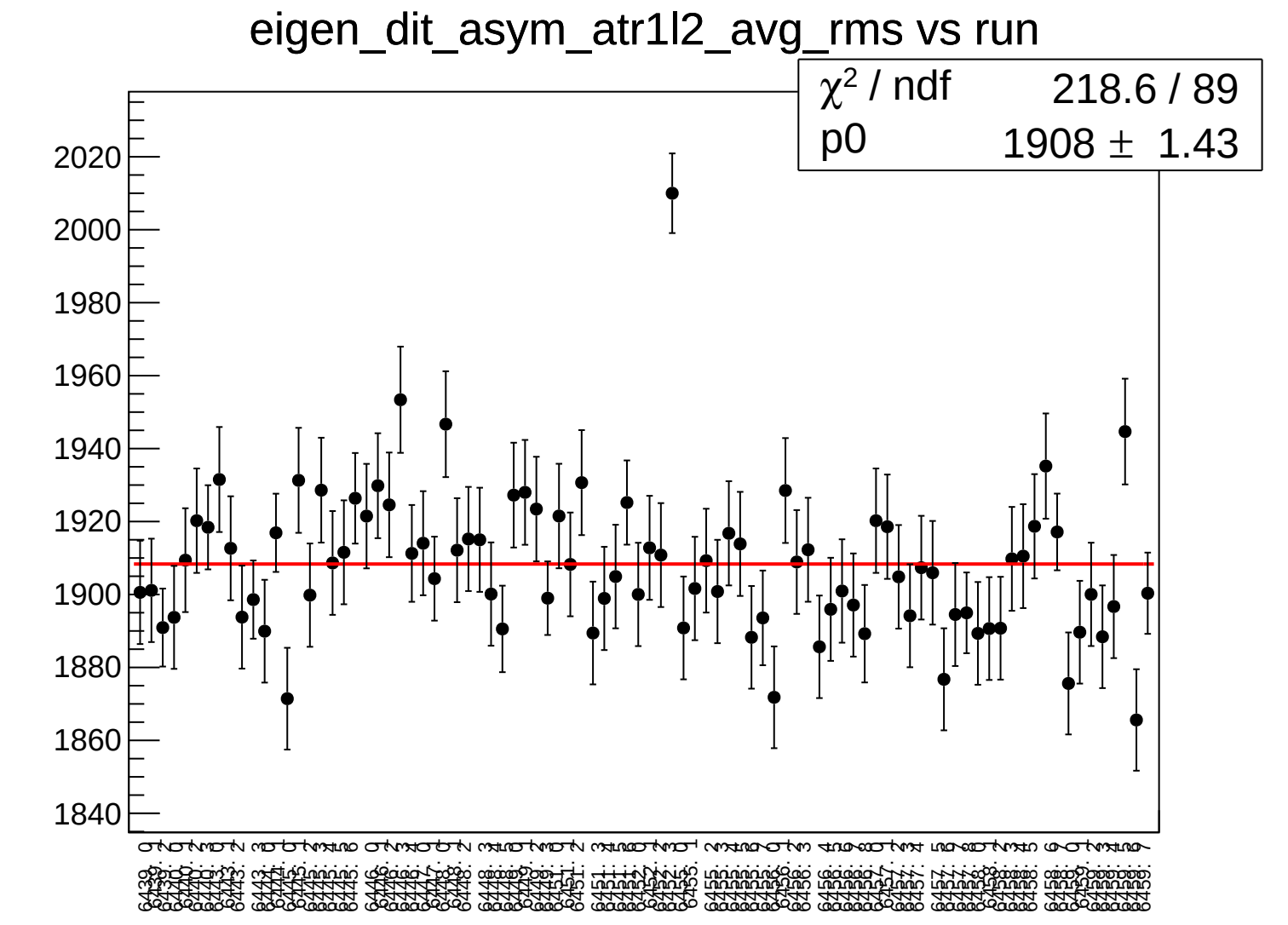

asym_atr1l2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 79.63 / 89
p0 −9820 ± 5110
150
100
50
0
−50
−100
−150
−200
pull
Entries 90
Mean −122.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

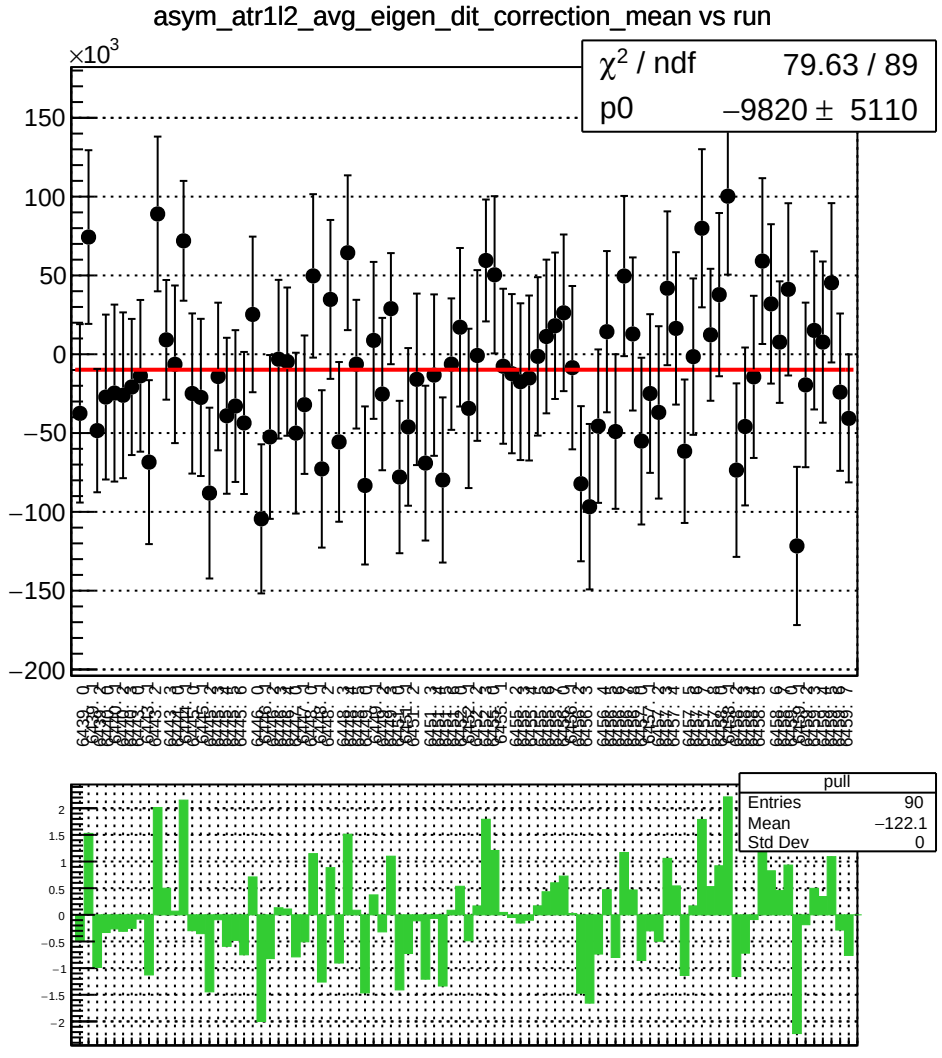

pull1D
Entries 90
Mean −0.01706
Std Dev 0.9405
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

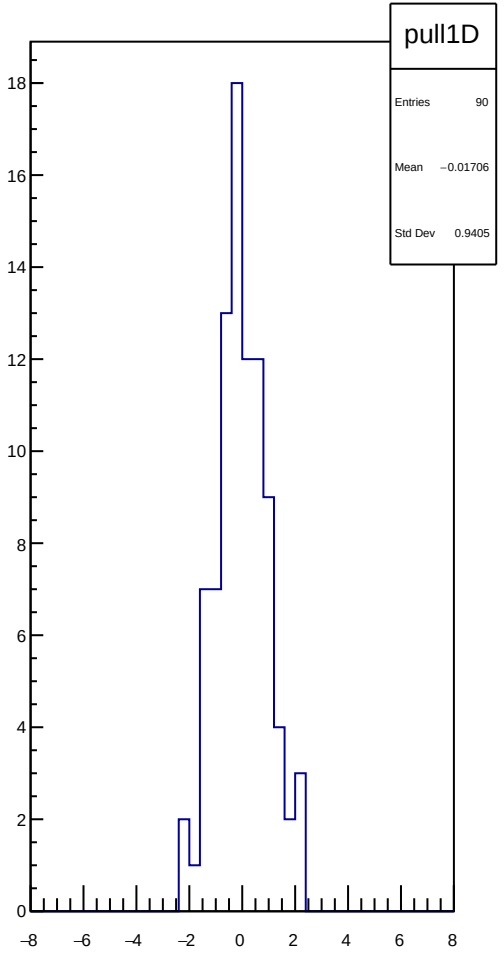

asym_atr1l2_avg_dit_correction_rms vs run
χ² / ndf 2706 / 89
p0 4820 ± 3.613
5400
5200
5000
4800
4600
4400
4200

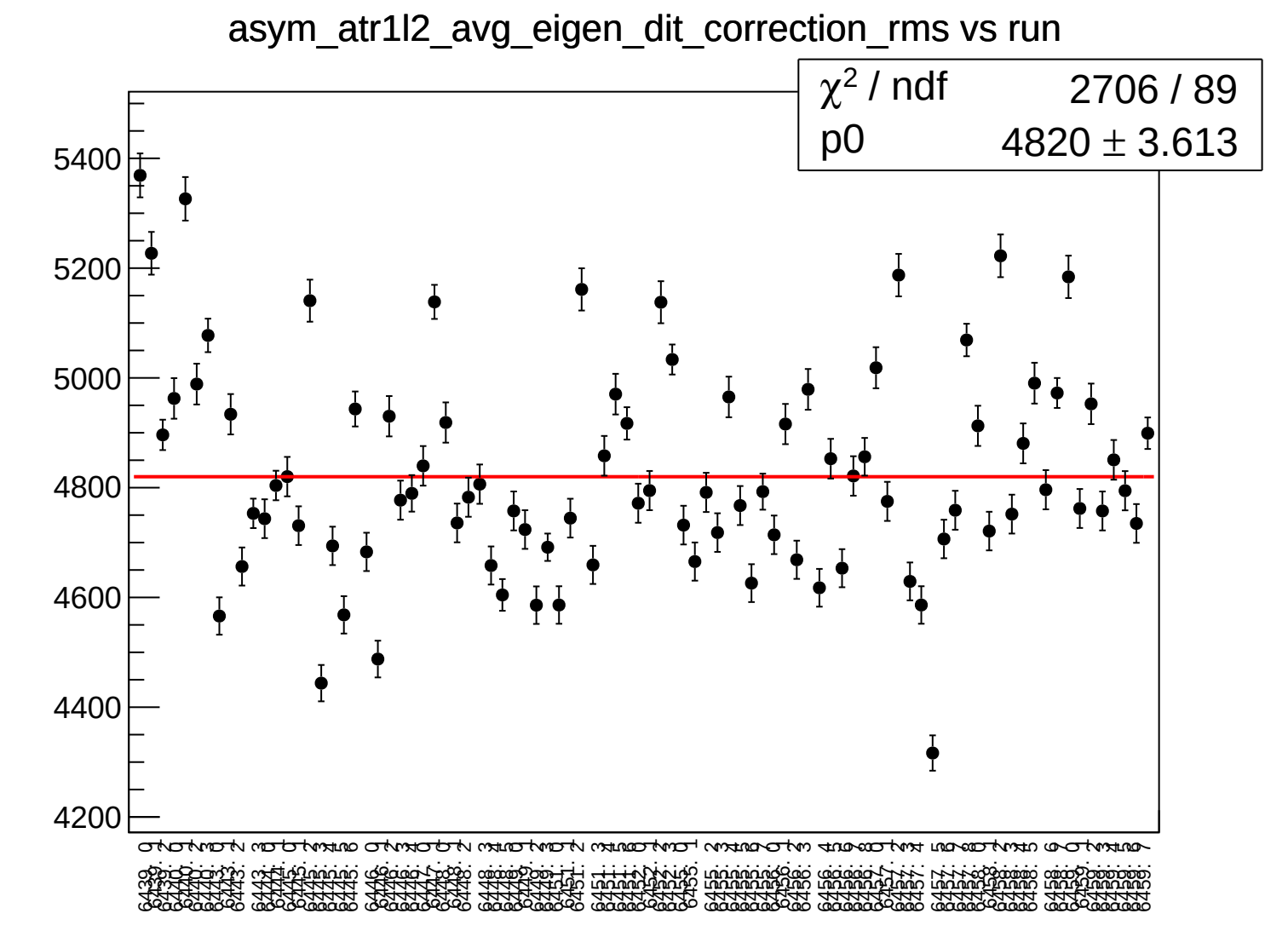

eigen_dit_asym_atr1l2_avg_mean vs run
χ² / ndf 103 / 89
p0 −310.5 ± 2022
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 709.8
Std Dev 0
3
2
1
0
−1
−2

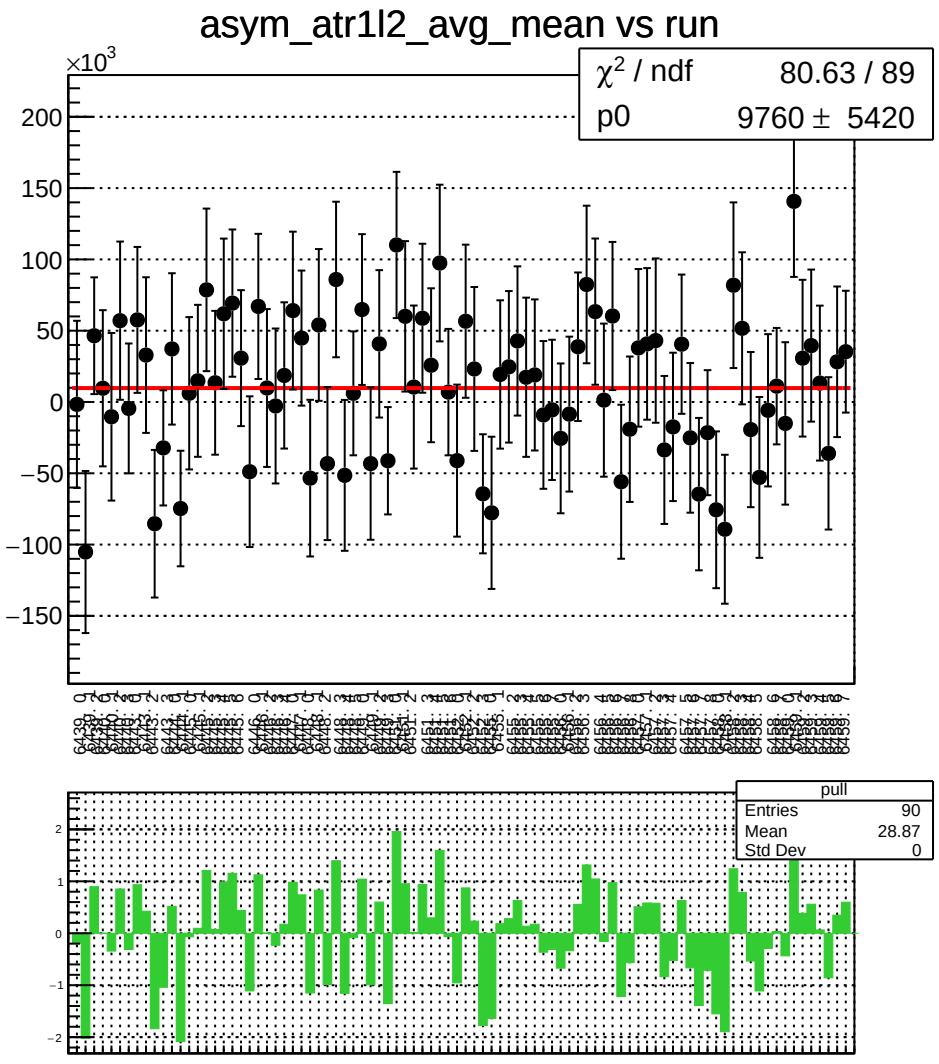

pull1D
Entries 90
Mean 0.01012
Std Dev 1.07
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

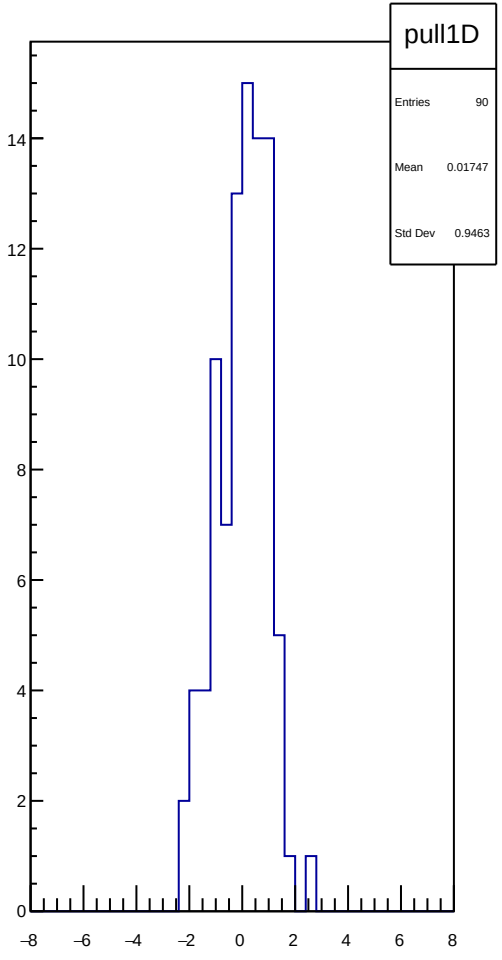

eigen_dit_asym_atr1l2_avg_rms vs run
χ² / ndf 218.6 / 89
p0 1908 ± 1.43
2020
2000
1980
1960
1940
1920
1900
1880
1860
1840

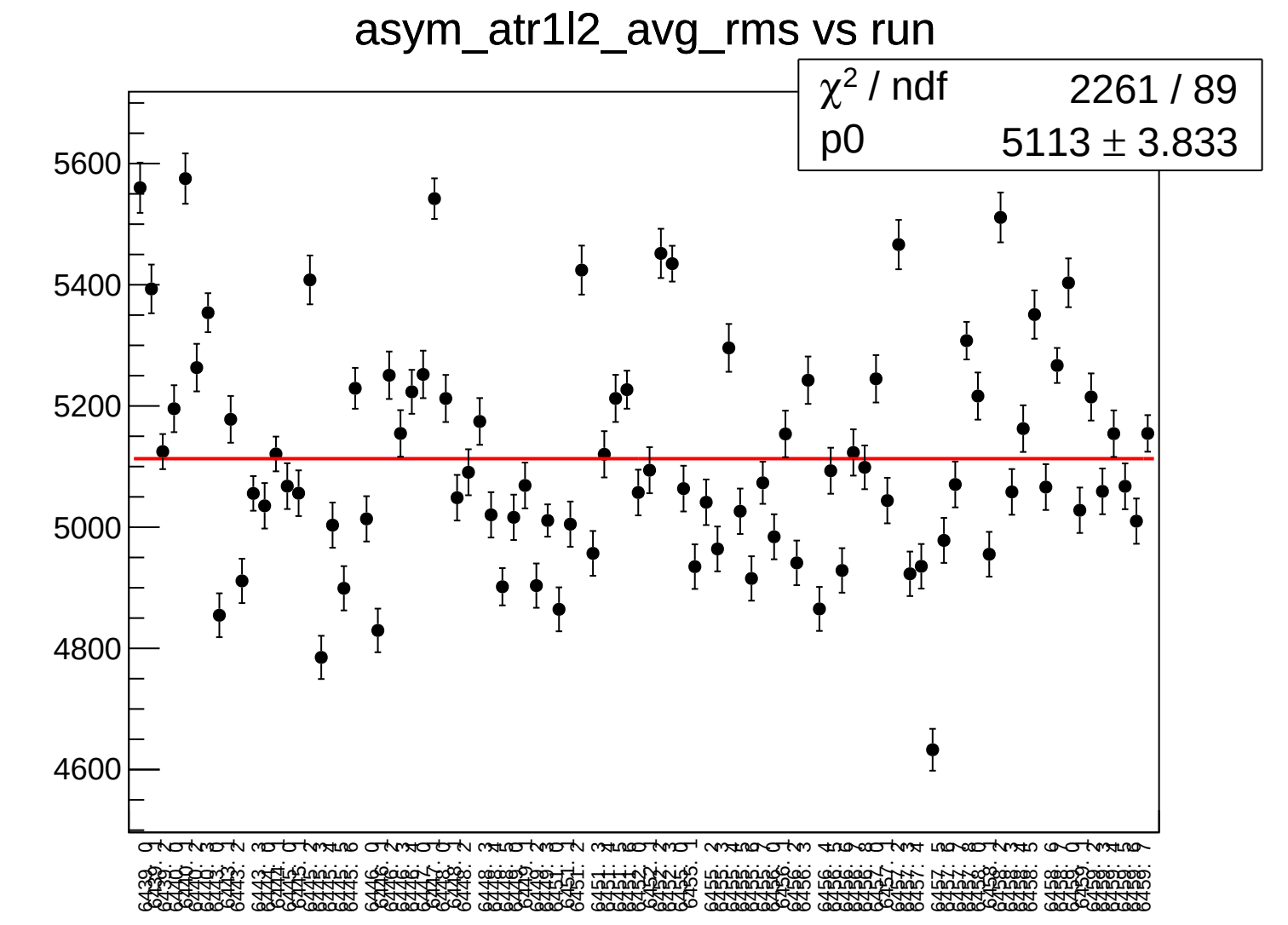

asym_atr1l2_avg_eigen_dit_correction_mean vs run
χ² / ndf 79.63 / 89
p0 −9820 ± 5110
×10³
pull
Entries 90
Mean −122.1
Std Dev 0

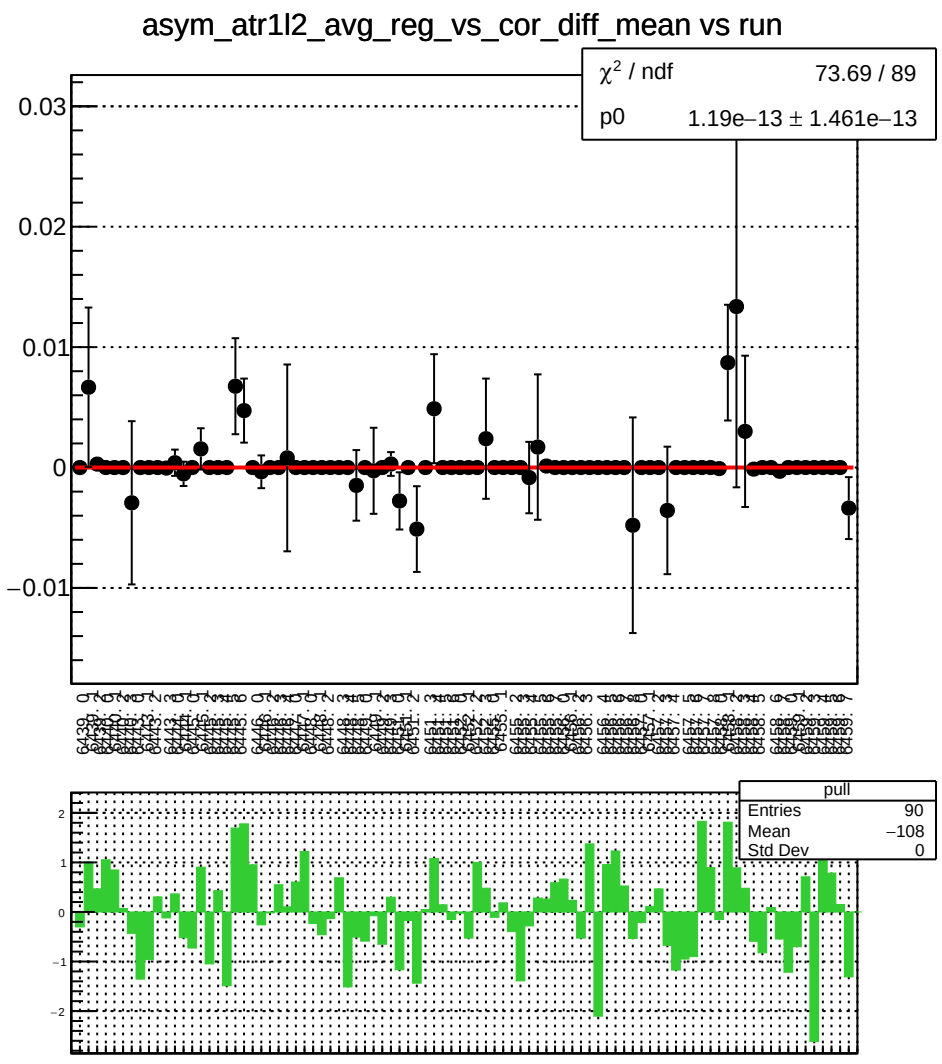

pull1D
Entries 90
Mean −0.01706
Std Dev 0.9405

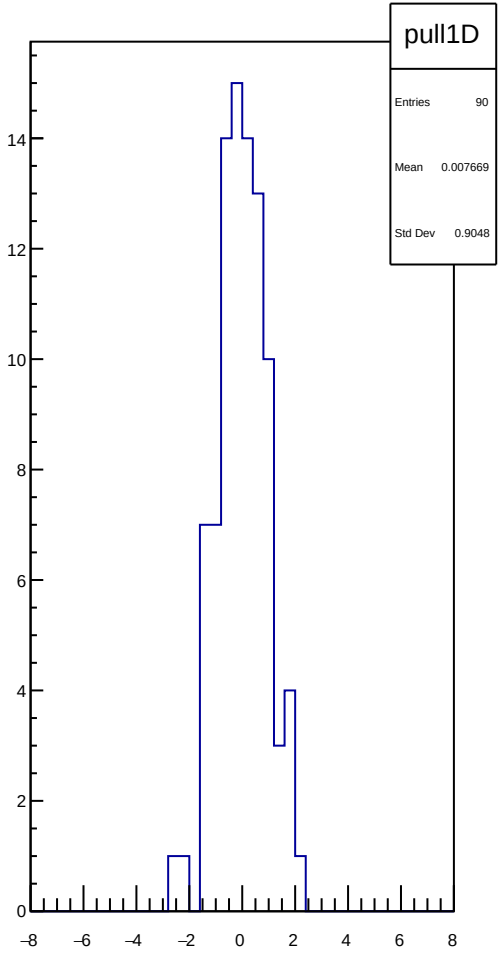

asym_atr1l2_avg_eigen_dit_correction_rms vs run
χ² / ndf 2706 / 89
p0 4820 ± 3.613
5400
5200
5000
4800
4600
4400
4200

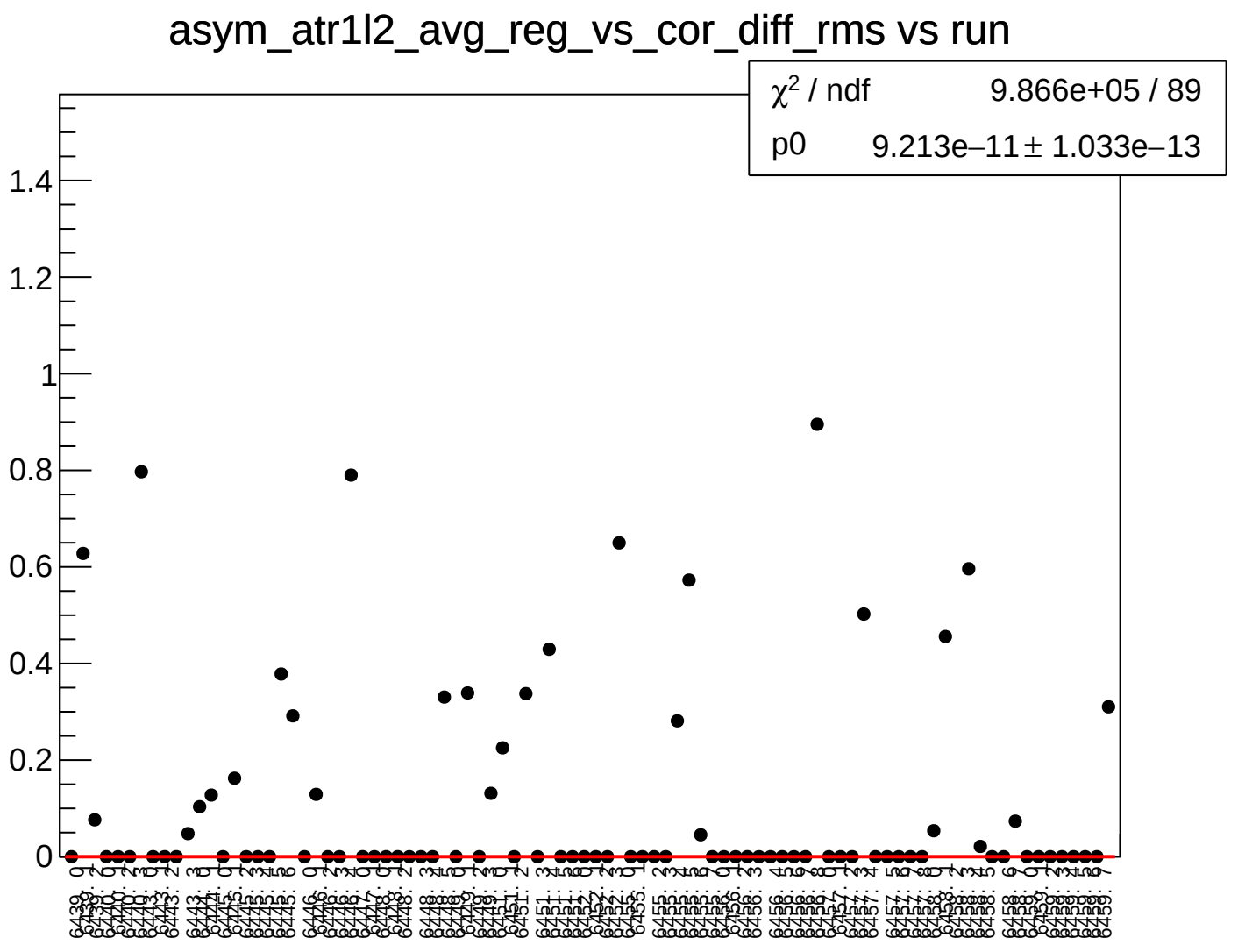

asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 80.63 / 89
p0 9760 ± 5420
200
150
100
50
0
−50
−100
−150
pull
Entries 90
Mean 28.87
Std Dev 0
2
1
0
−1
−2

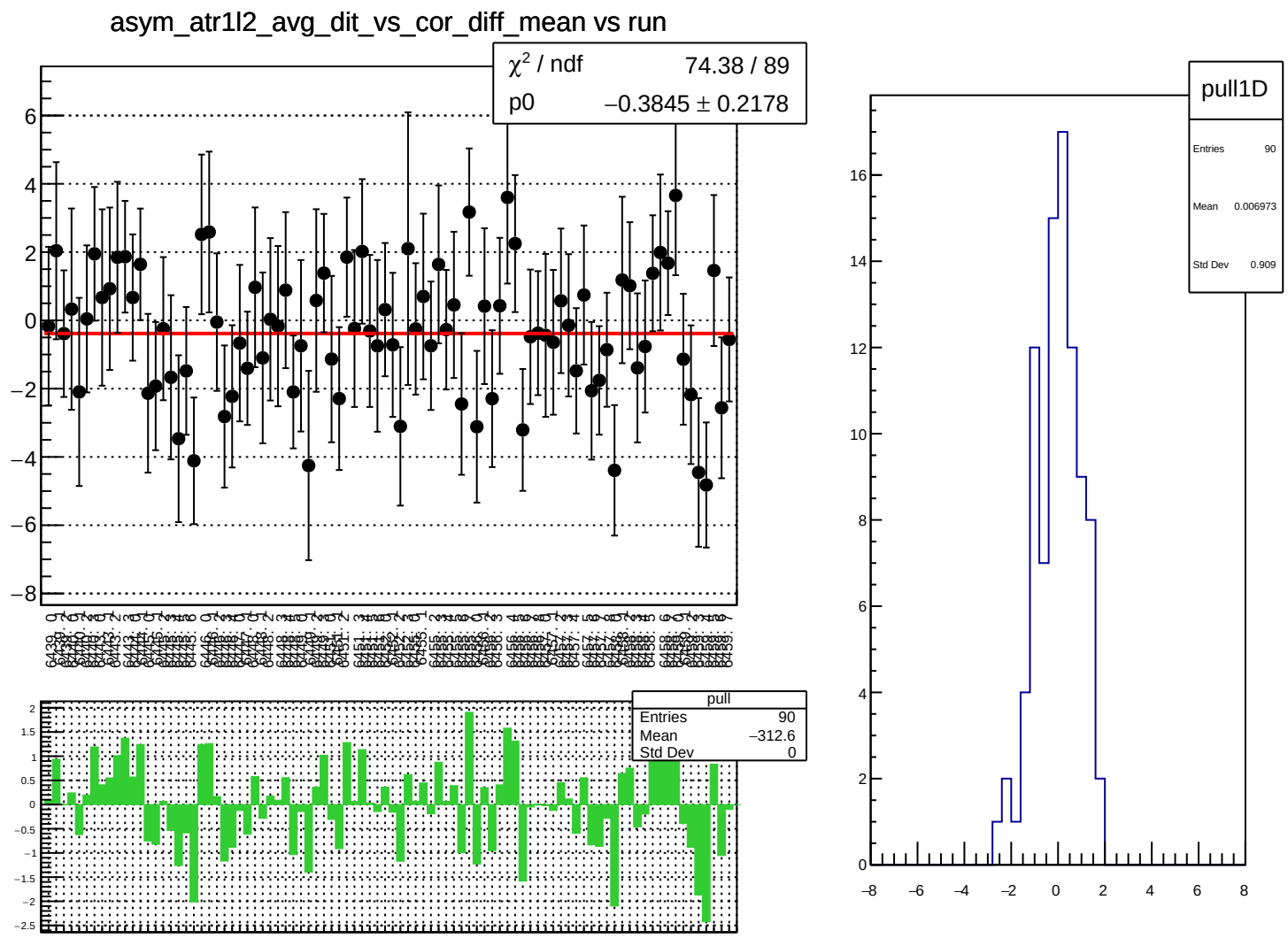

pull1D
Entries 90
Mean 0.01747
Std Dev 0.9463
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

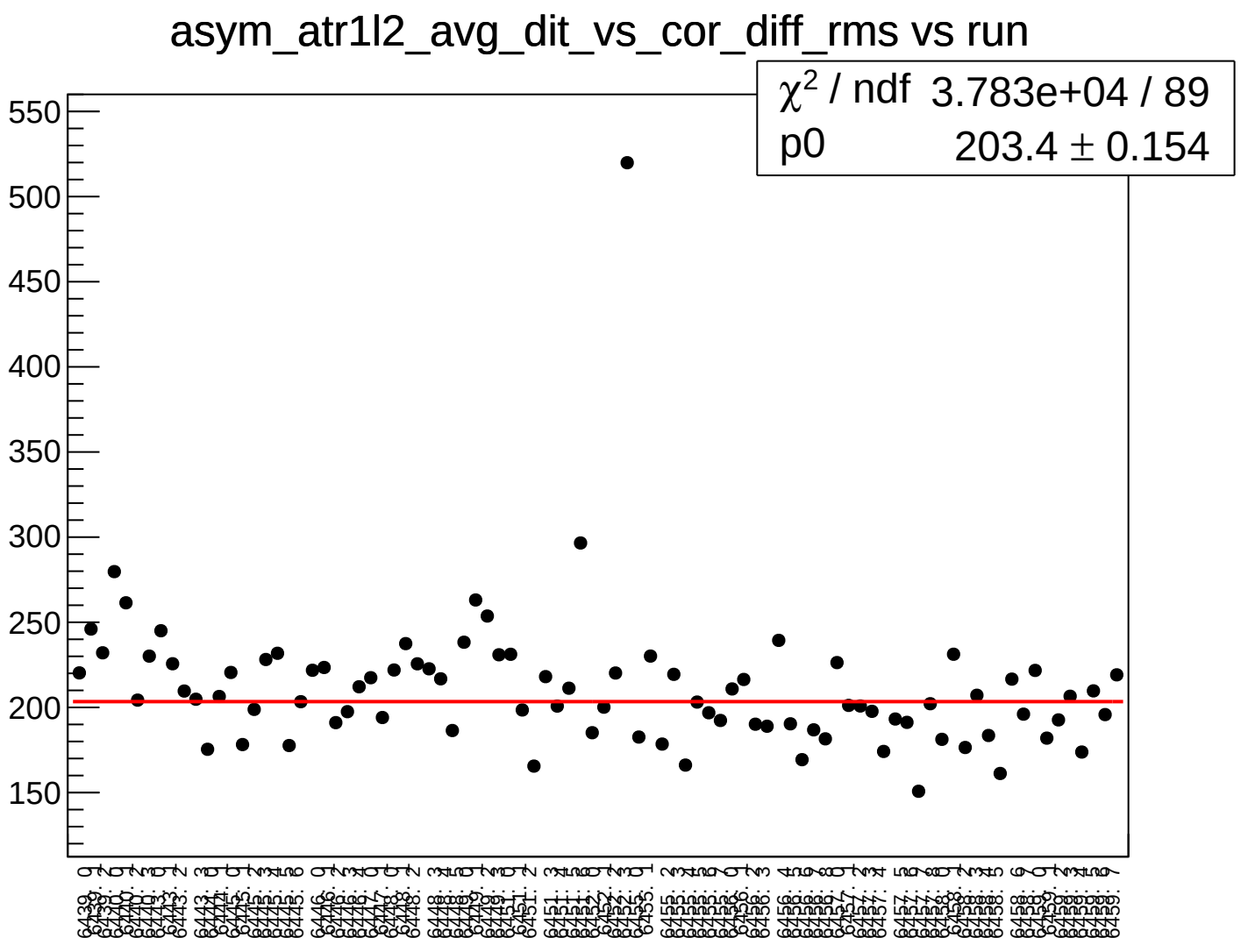

asym_atr1l2_avg_rms vs run
χ² / ndf 2261 / 89
p0 5113 ± 3.833
5600
5400
5200
5000
4800
4600

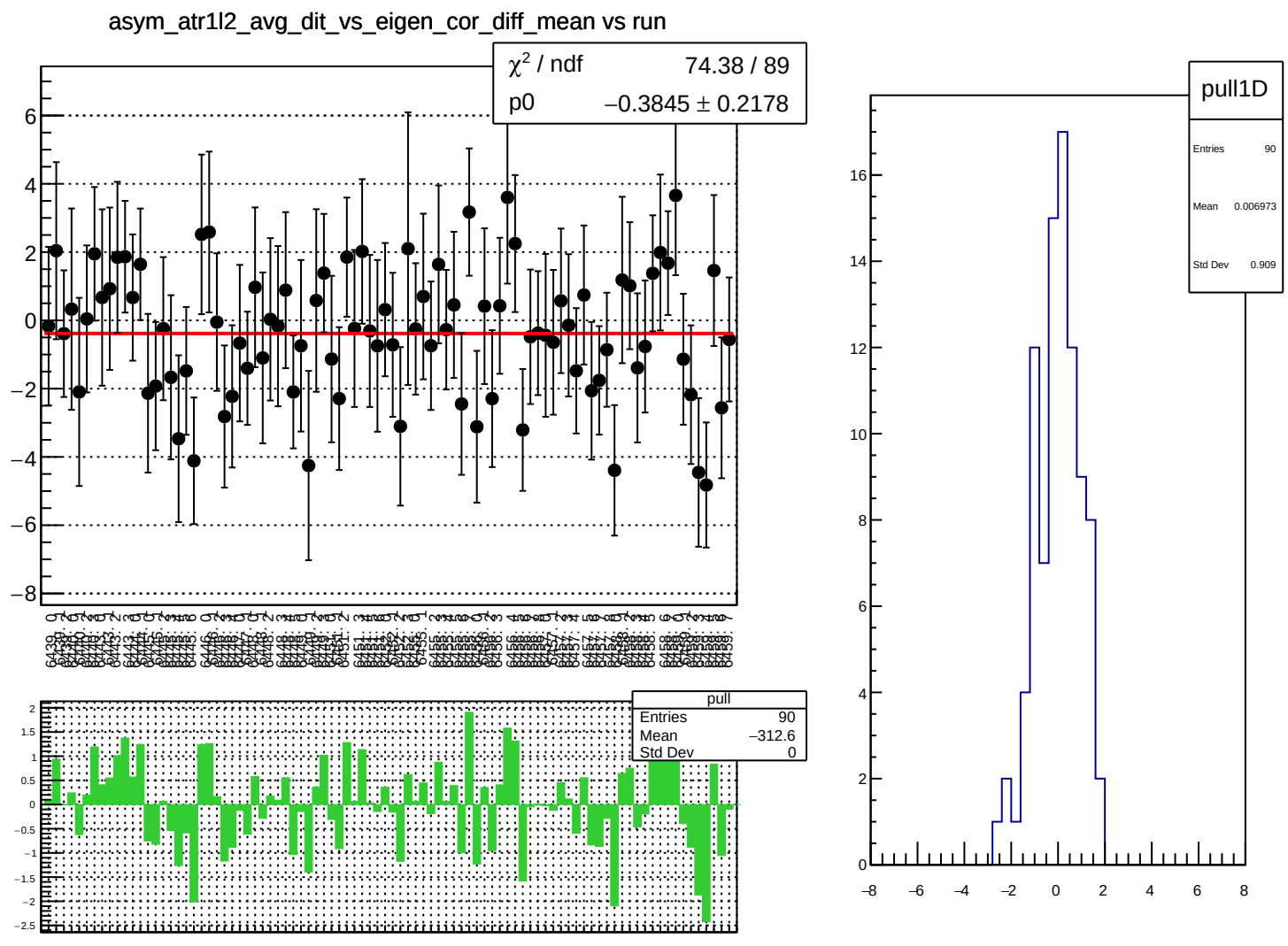

asym_atr1l2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 73.69 / 89
p0 1.19e−13 ± 1.461e−13
0.03
0.02
0.01
0
−0.01
pull
Entries 90
Mean −108
Std Dev 0
2
1
0
−1
−2

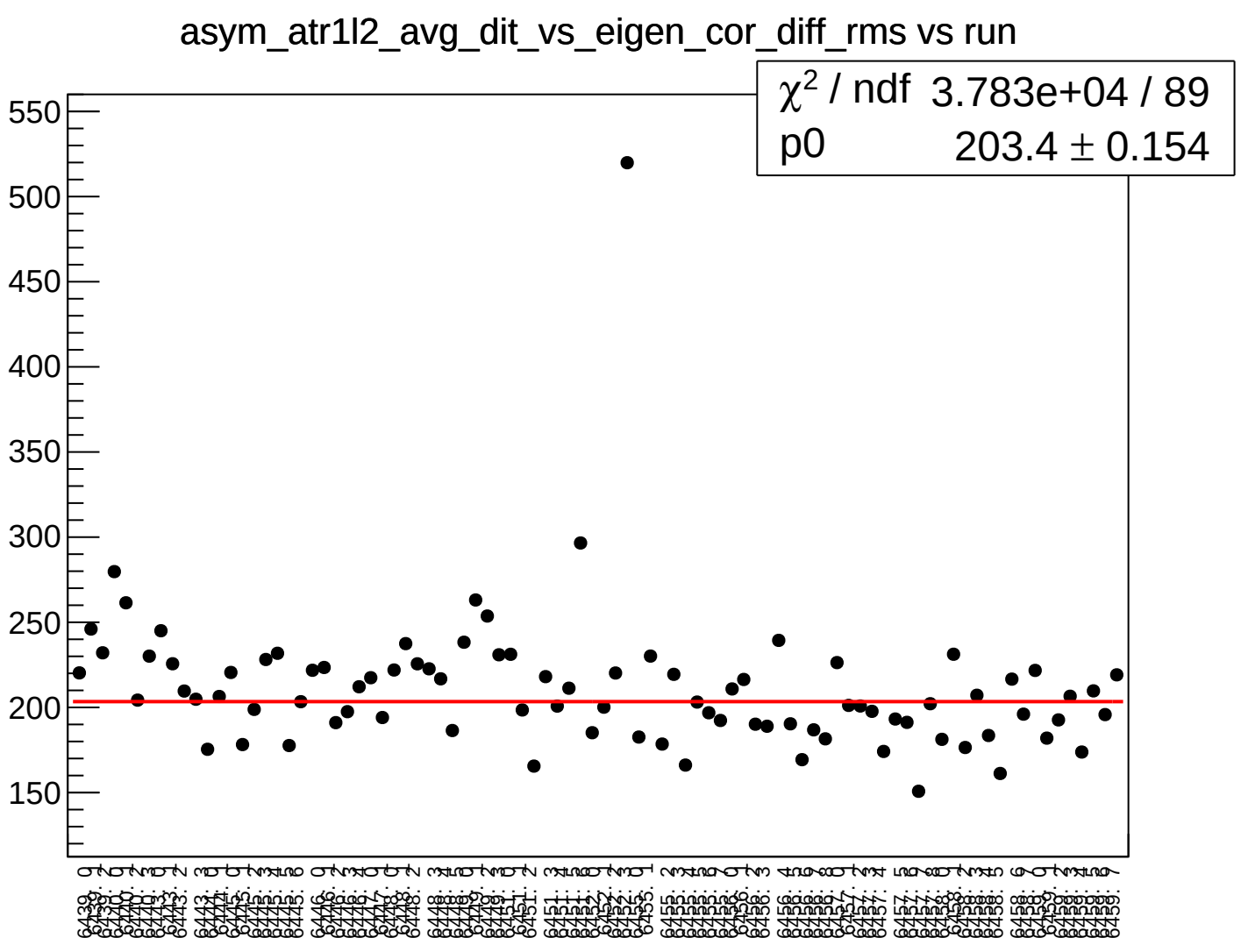

pull1D
Entries 90
Mean 0.007669
Std Dev 0.9048
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

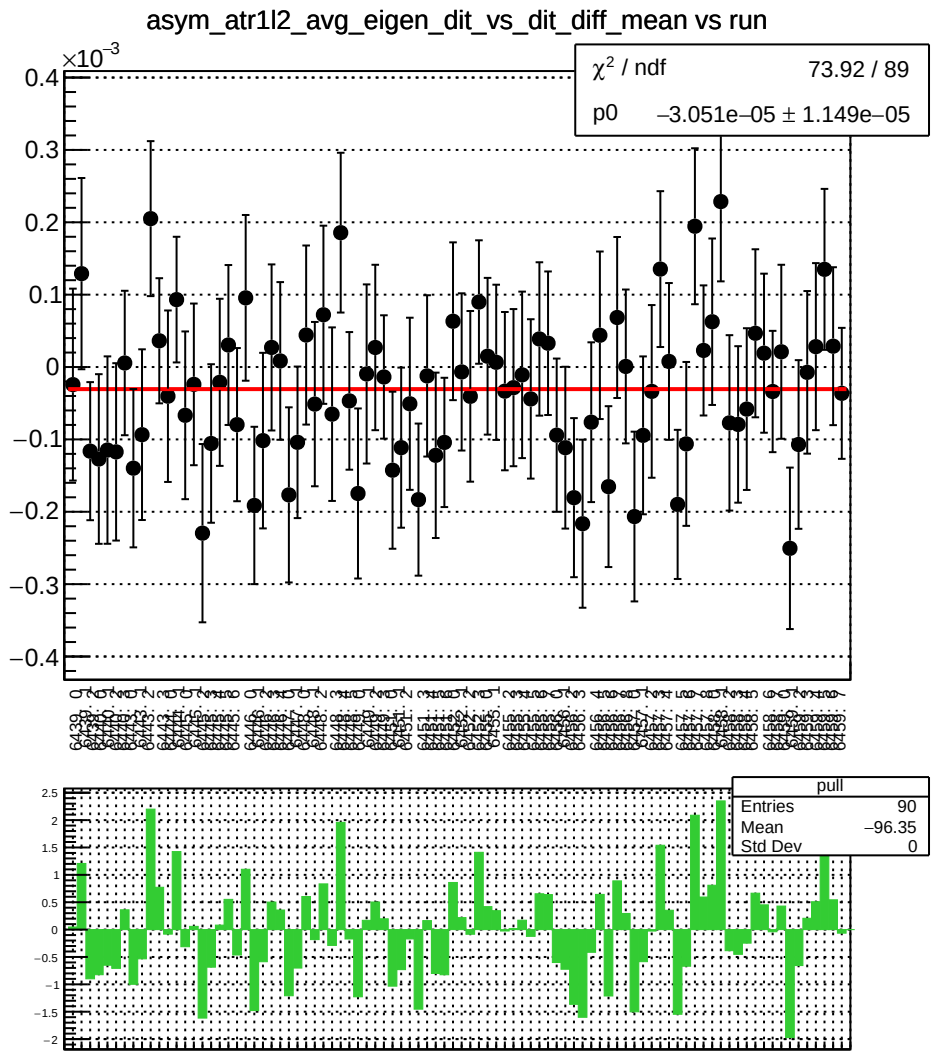

asym_atr1l2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.866e+05 / 89
p0 9.213e−11 ± 1.033e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

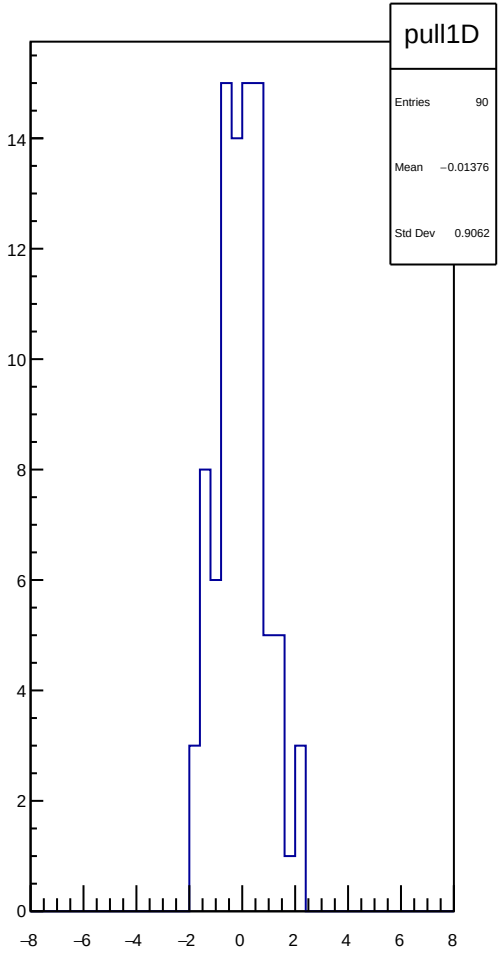

asym_atr1l2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 74.38 / 89
p0 −0.3845 ± 0.2178
pull
Entries 90
Mean −312.6
Std Dev 0
pull1D
Entries 90
Mean 0.006973
Std Dev 0.909

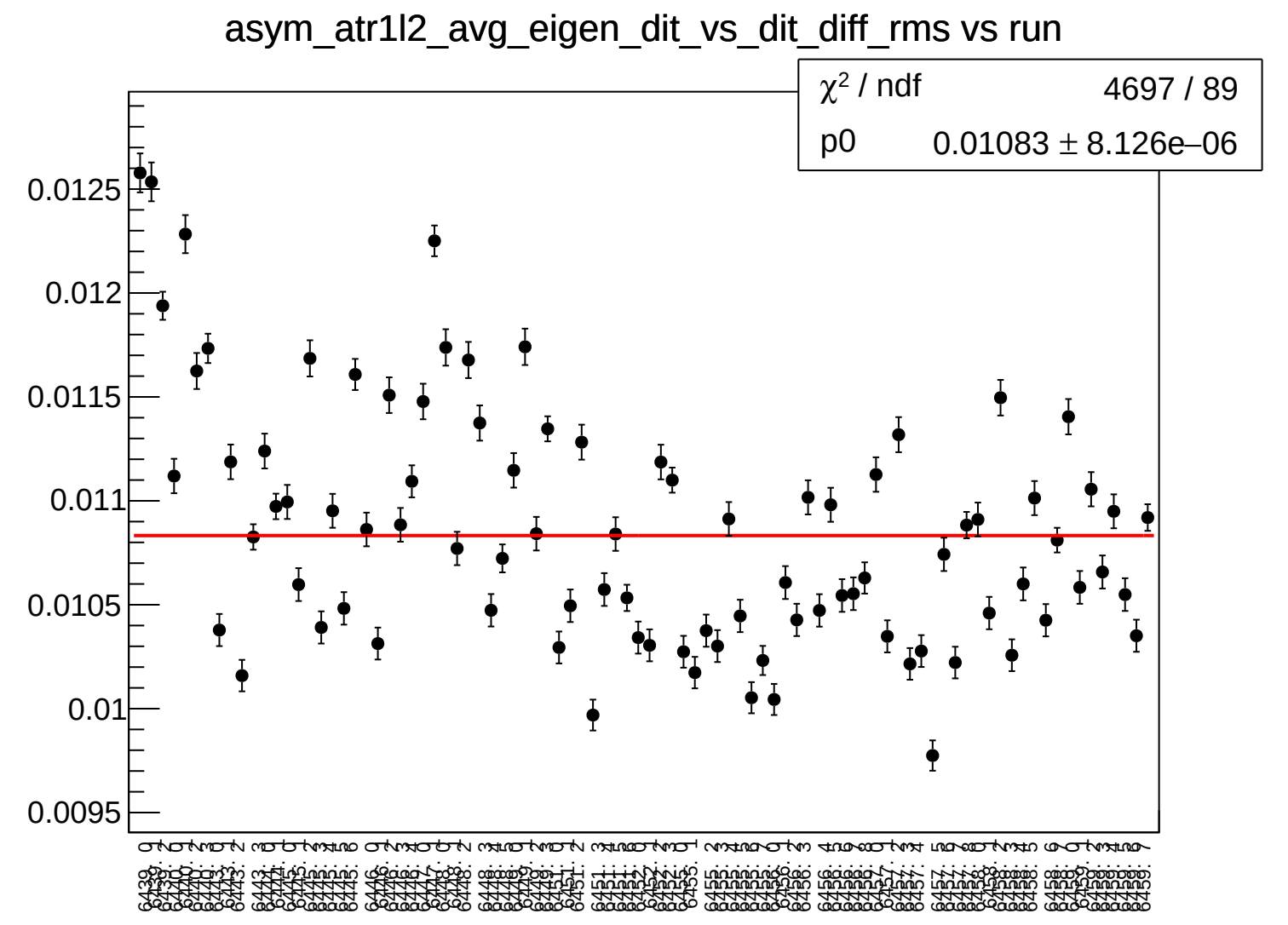

asym_atr1l2_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.783e+04 / 89
p0 203.4 ± 0.154
550
500
450
400
350
300
250
200
150

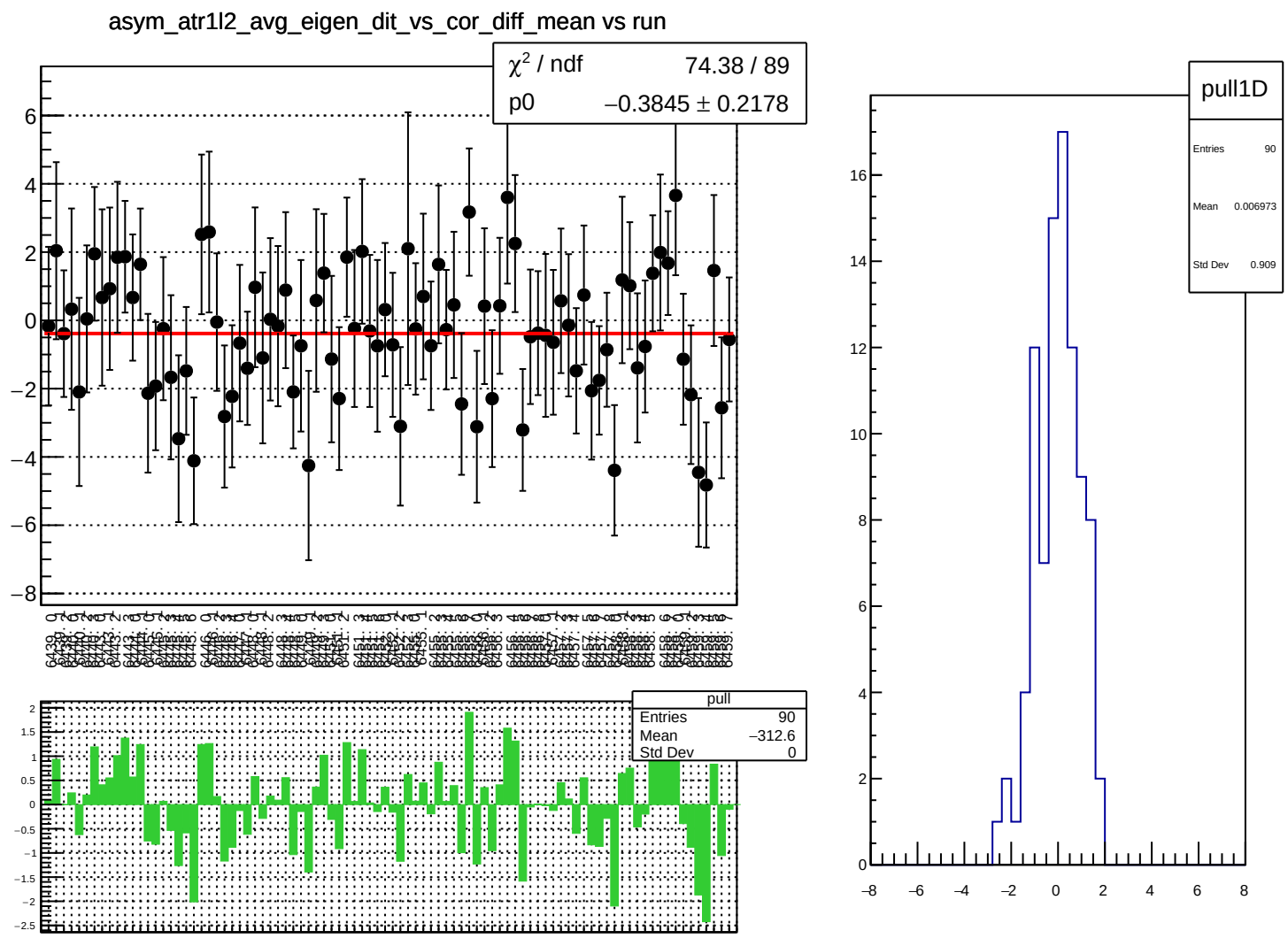

asym_atr1l2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.38 / 89
p0 −0.3845 ± 0.2178
pull
Entries 90
Mean −312.6
Std Dev 0
pull1D
Entries 90
Mean 0.006973
Std Dev 0.909

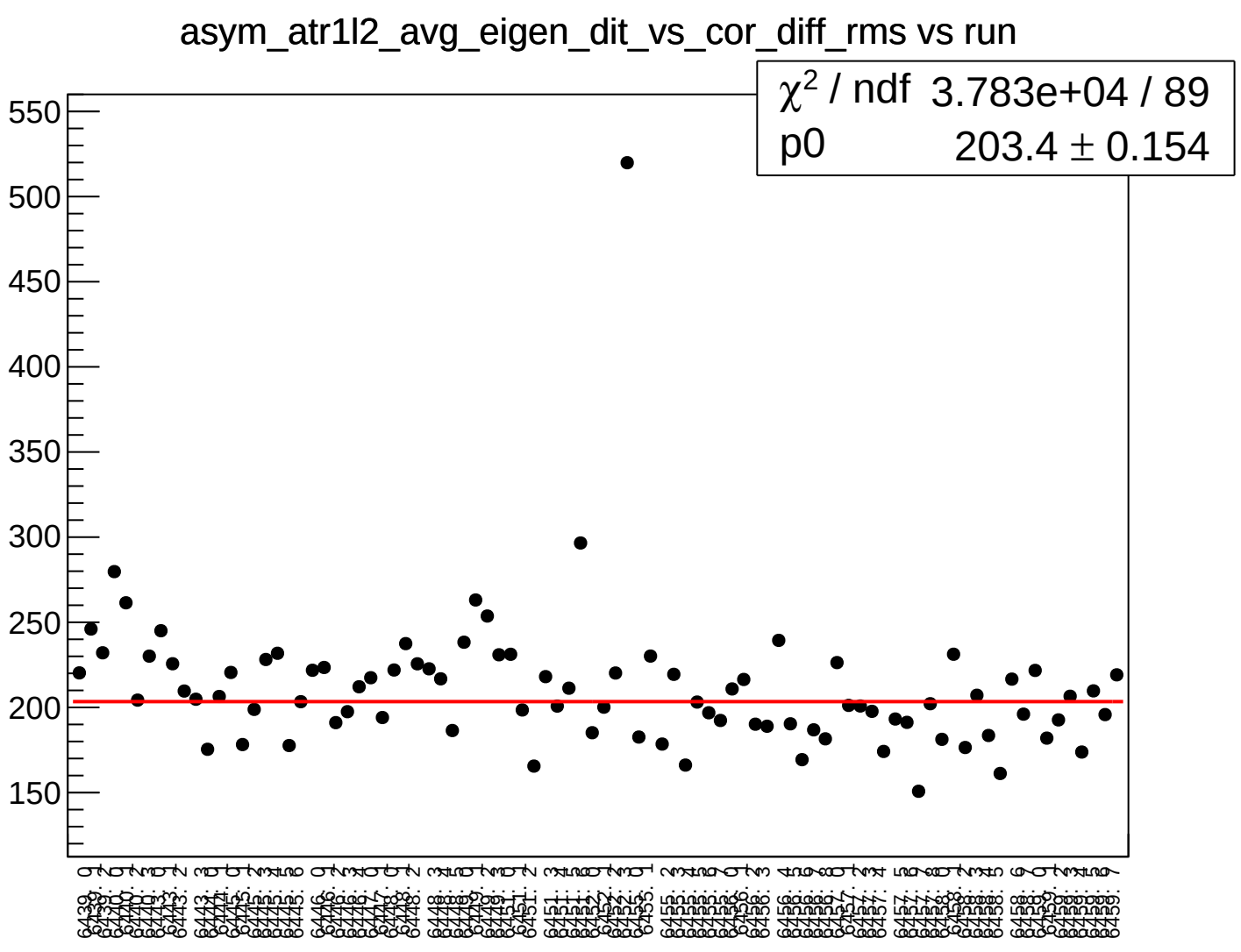

asym_atr1l2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.783e+04 / 89
p0 203.4 ± 0.154
550
500
450
400
350
300
250
200
150

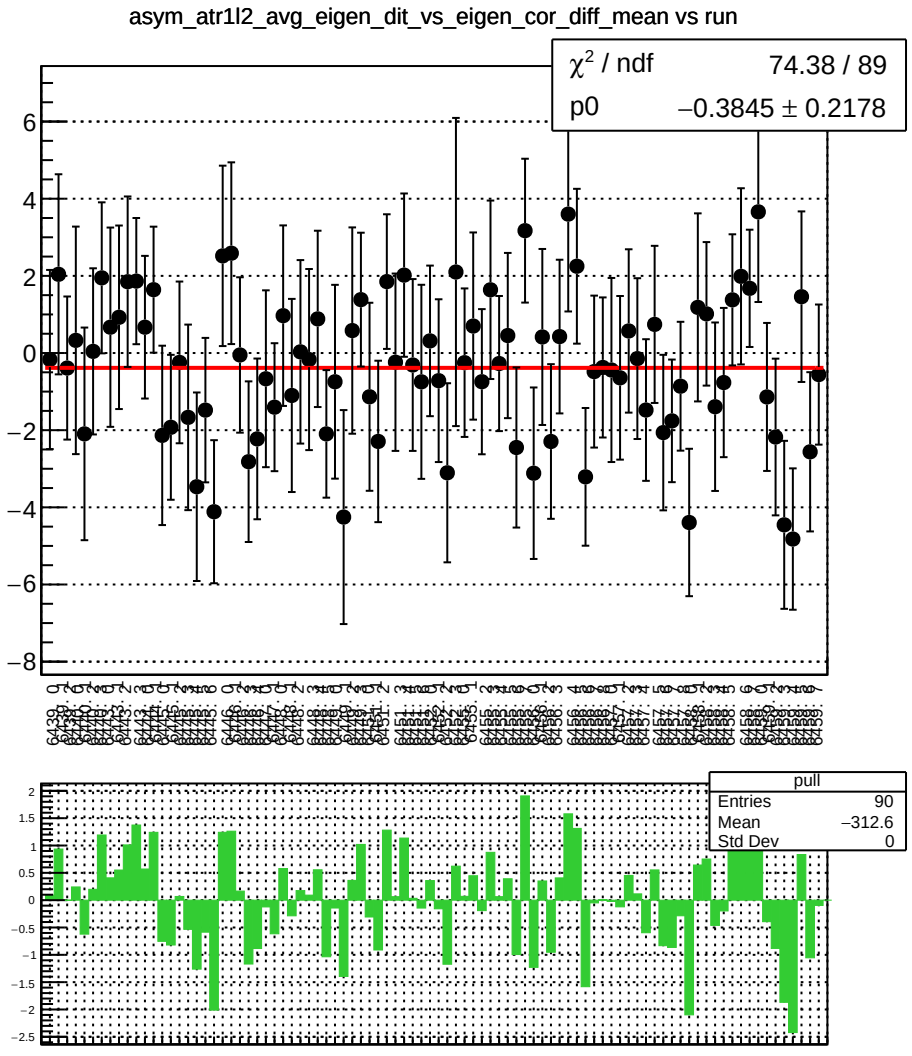

asym_atr1l2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.92 / 89
p0 −3.051e−05 ± 1.149e−05
pull
Entries 90
Mean −96.35
Std Dev 0

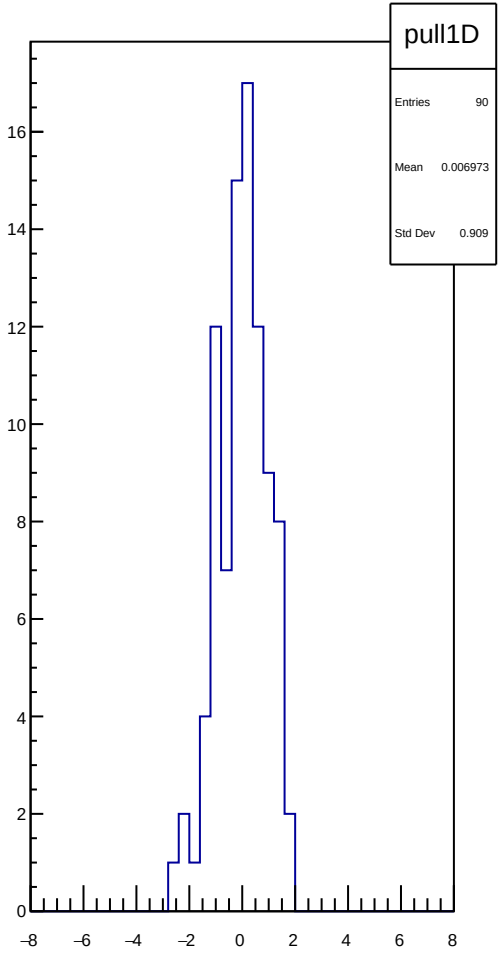

pull1D
Entries 90
Mean −0.01376
Std Dev 0.9062

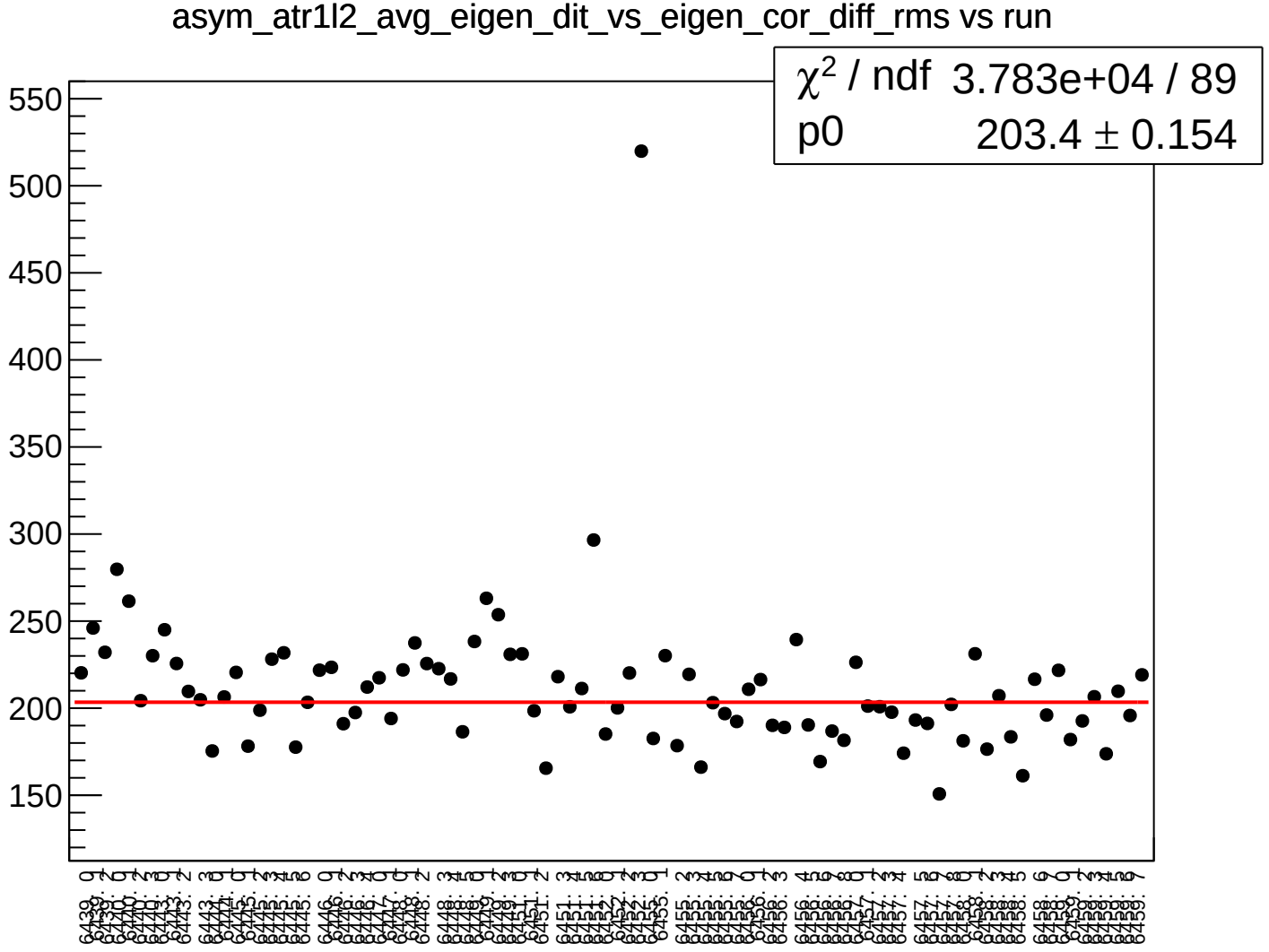

asym_atr1l2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4697 / 89
p0 0.01083 ± 8.126e−06
0.0125
0.012
0.0115
0.011
0.0105
0.01
0.0095

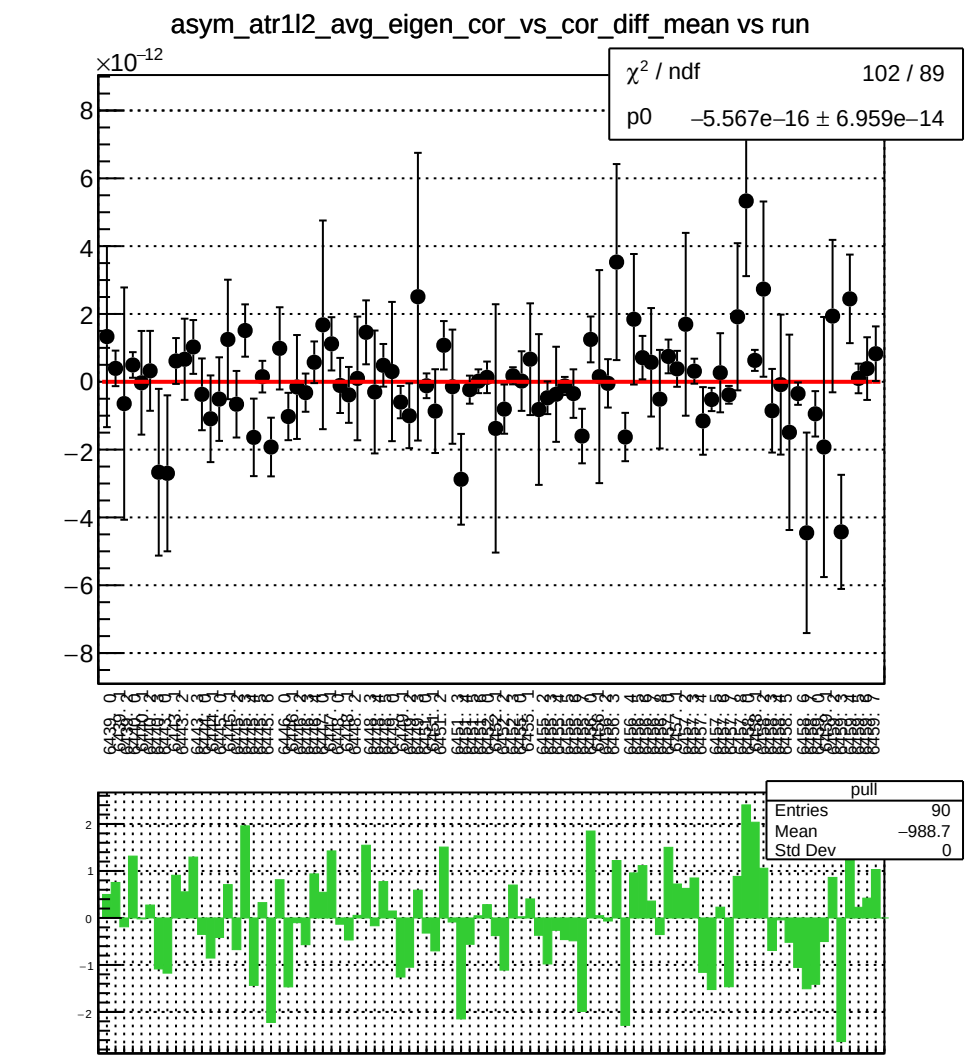

asym_atr1l2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 74.38 / 89
p0 −0.3845 ± 0.2178
pull
Entries 90
Mean −312.6
Std Dev 0
pull1D
Entries 90
Mean 0.006973
Std Dev 0.909

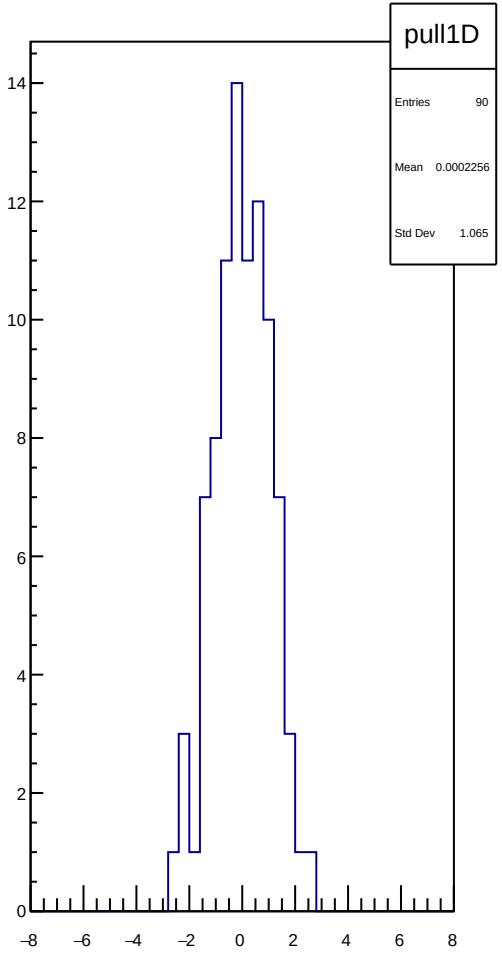

asym_atr1l2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.783e+04 / 89
p0 203.4 ± 0.154
550
500
450
400
350
300
250
200
150

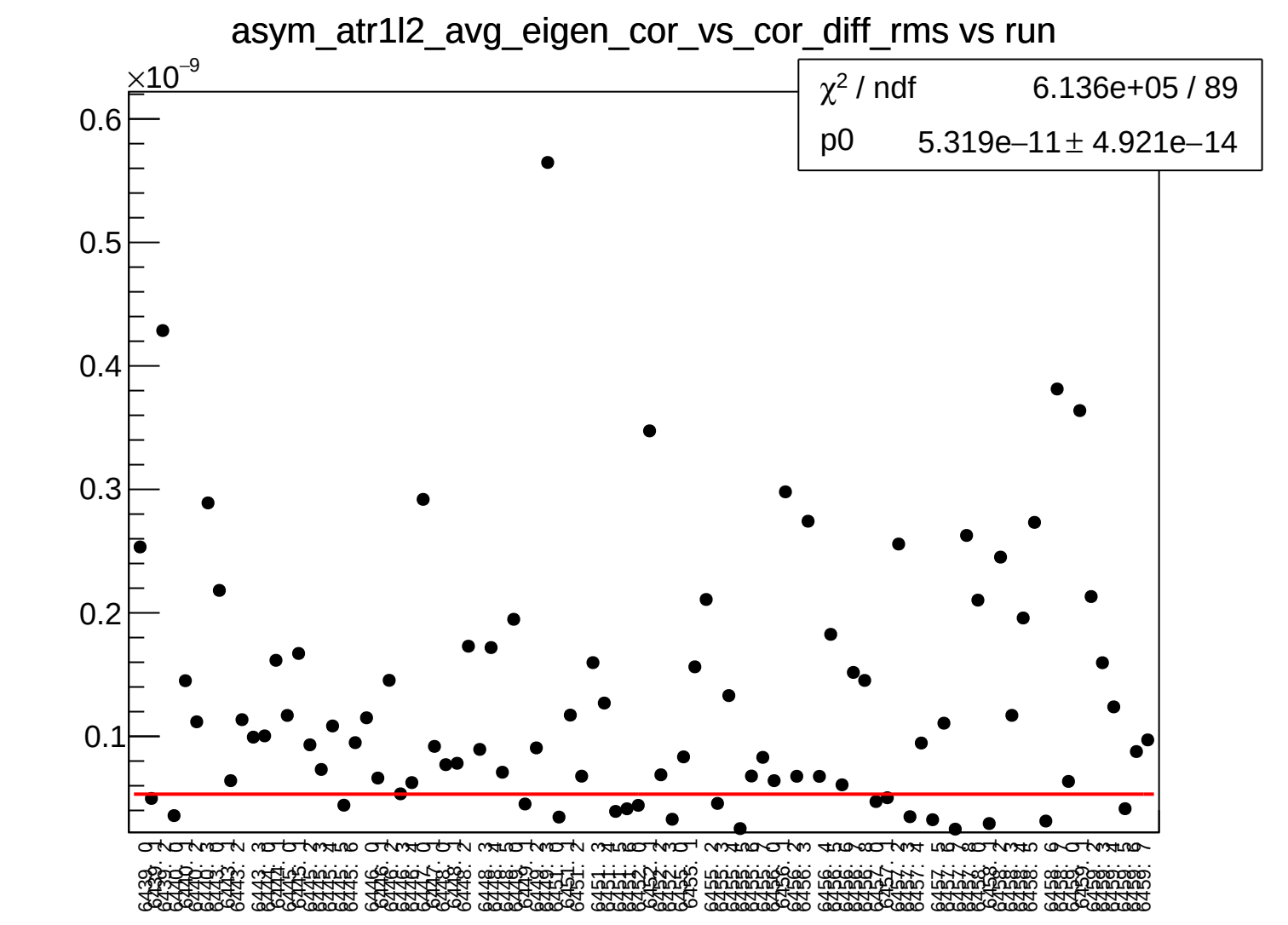

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.38 / 89
p0 −0.3845 ± 0.2178
pull
Entries 90
Mean −312.6
Std Dev 0

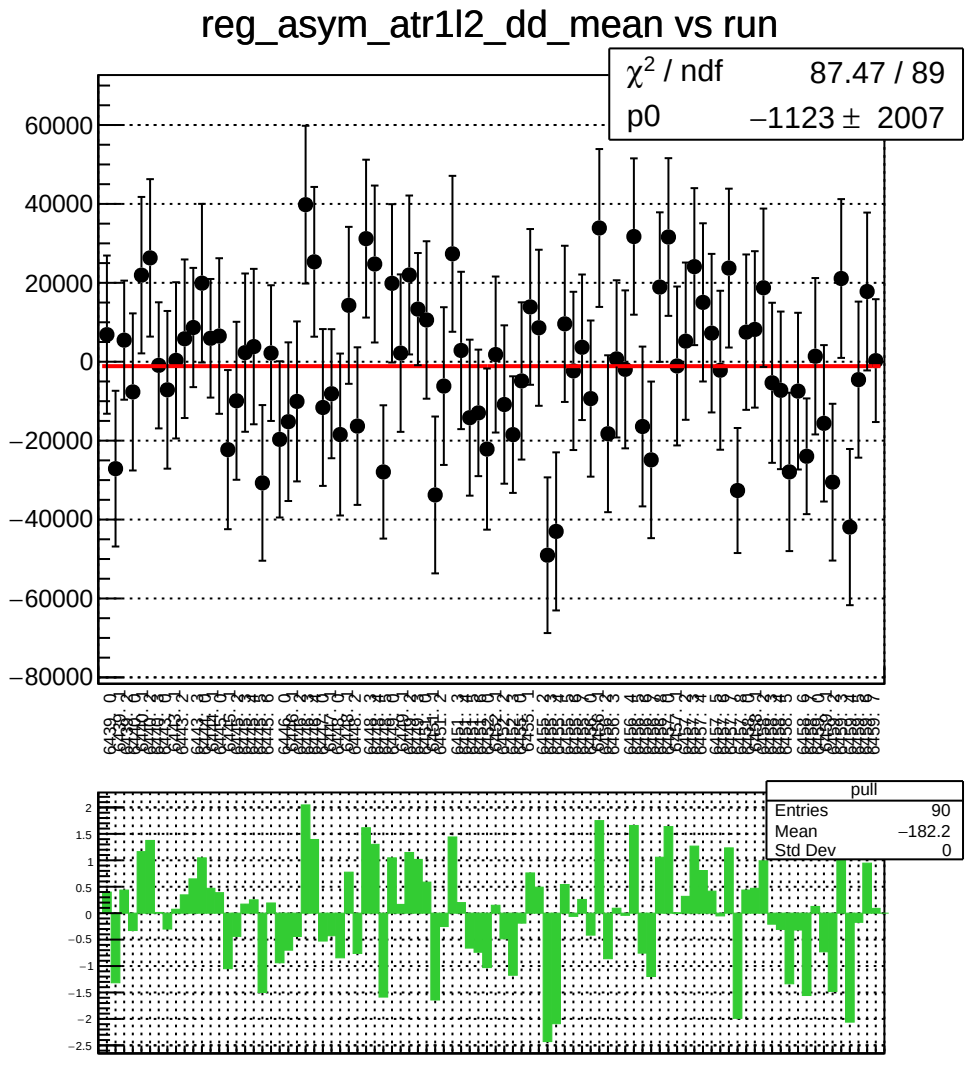

pull1D
Entries 90
Mean 0.006973
Std Dev 0.909

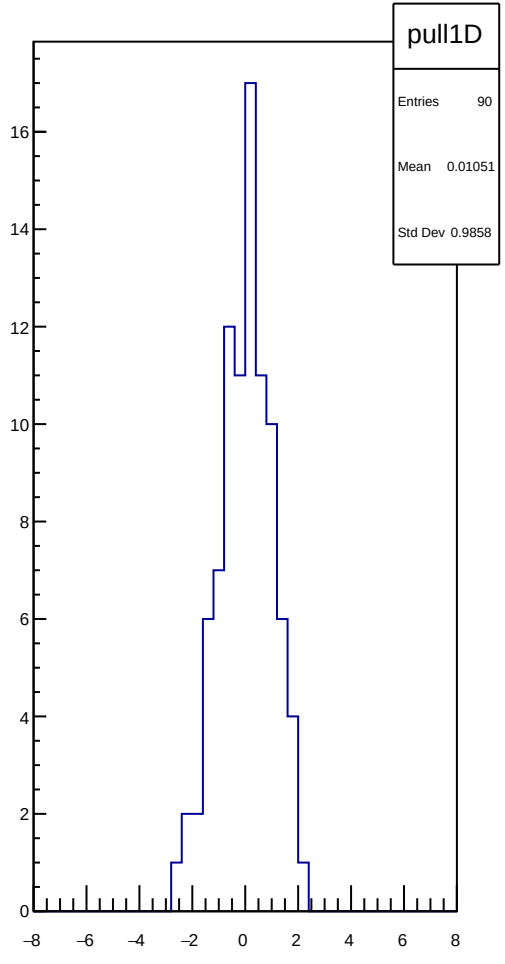

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.783e+04 / 89
p0 203.4 ± 0.154
550
500
450
400
350
300
250
200
150

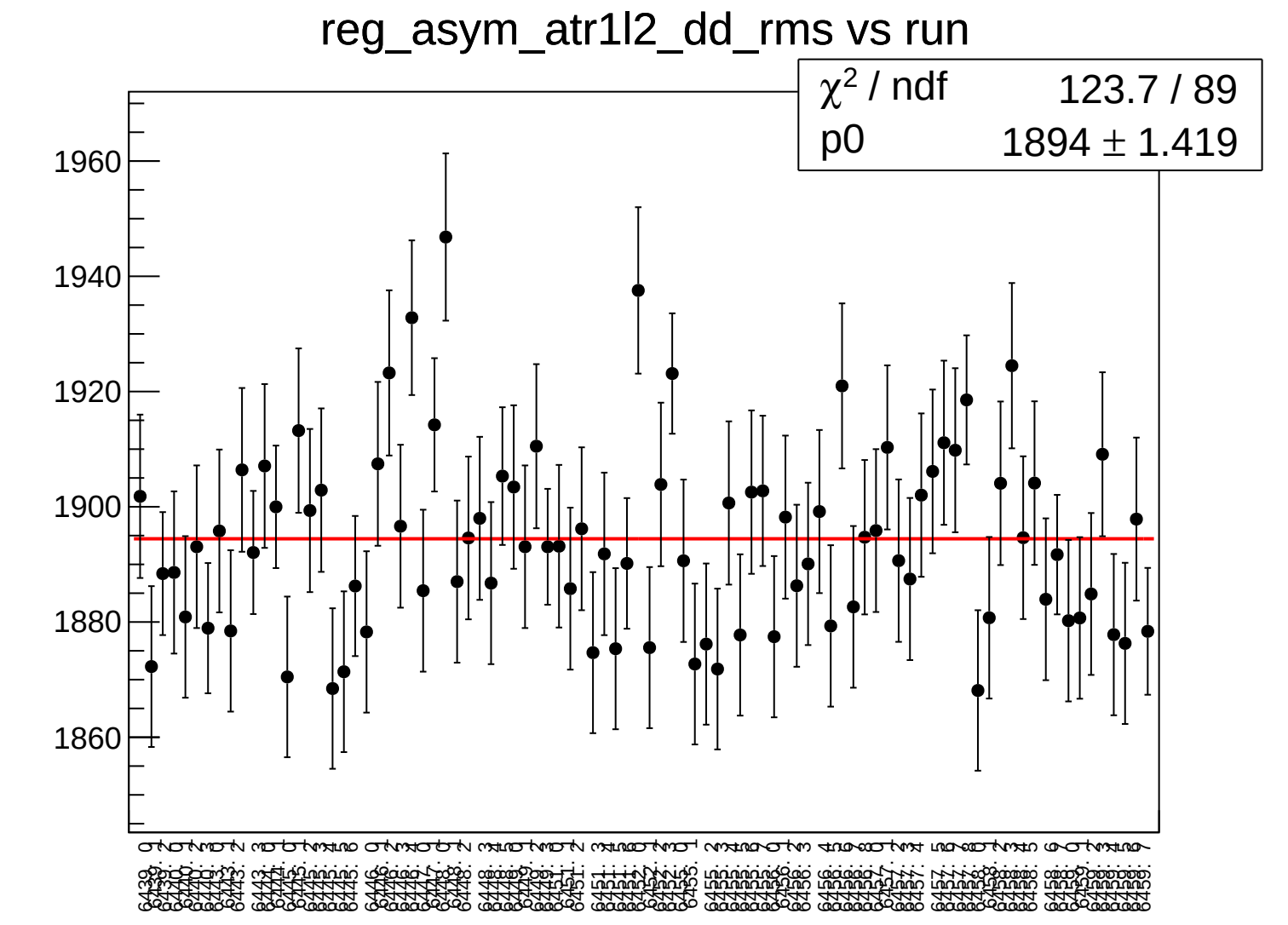

asym_atr1l2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 102 / 89
p0 −5.567e−16 ± 6.959e−14
pull
Entries 90
Mean −988.7
Std Dev 0

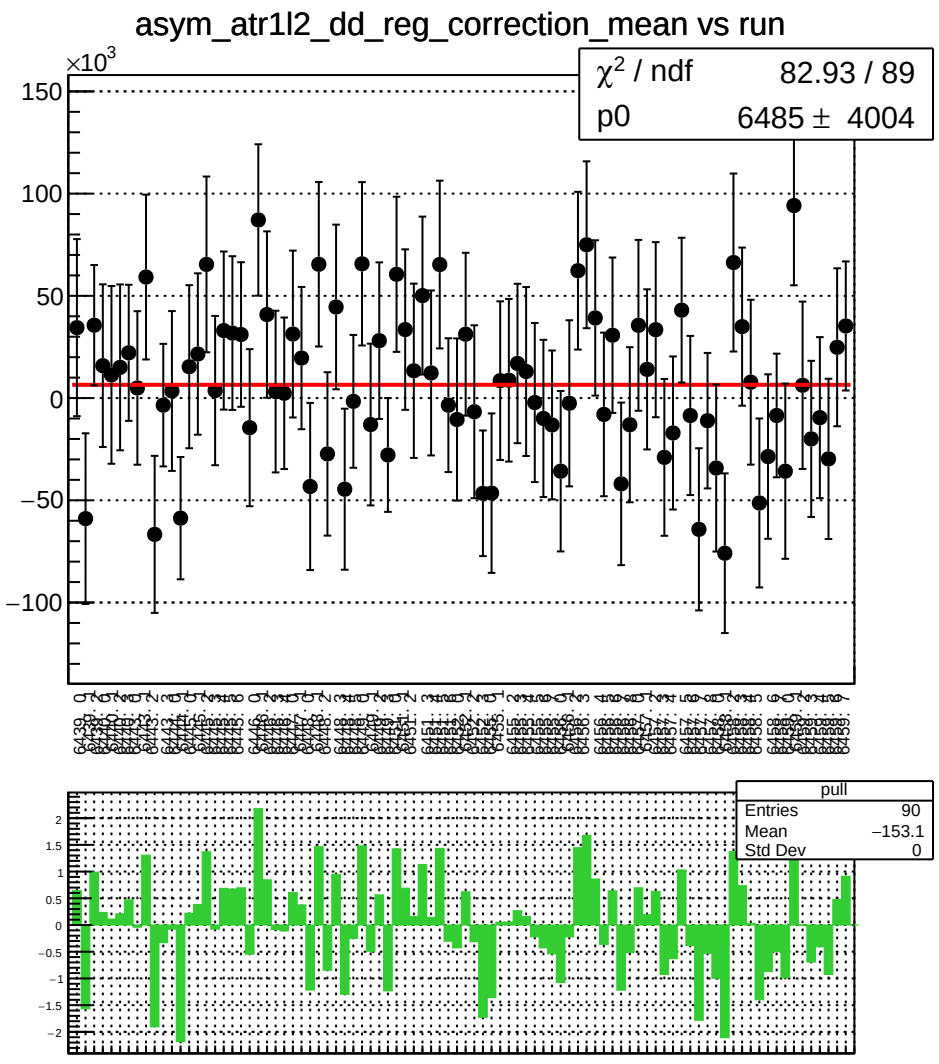

pull1D
Entries 90
Mean 0.0002256
Std Dev 1.065

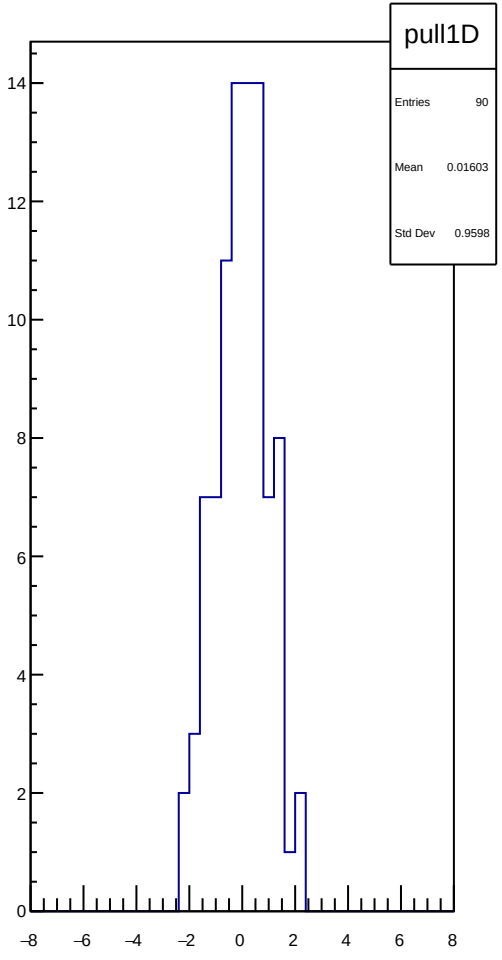

asym_atr1l2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.136e+05 / 89
p0 5.319e−11 ± 4.921e−14
0.6
0.5
0.4
0.3
0.2
0.1

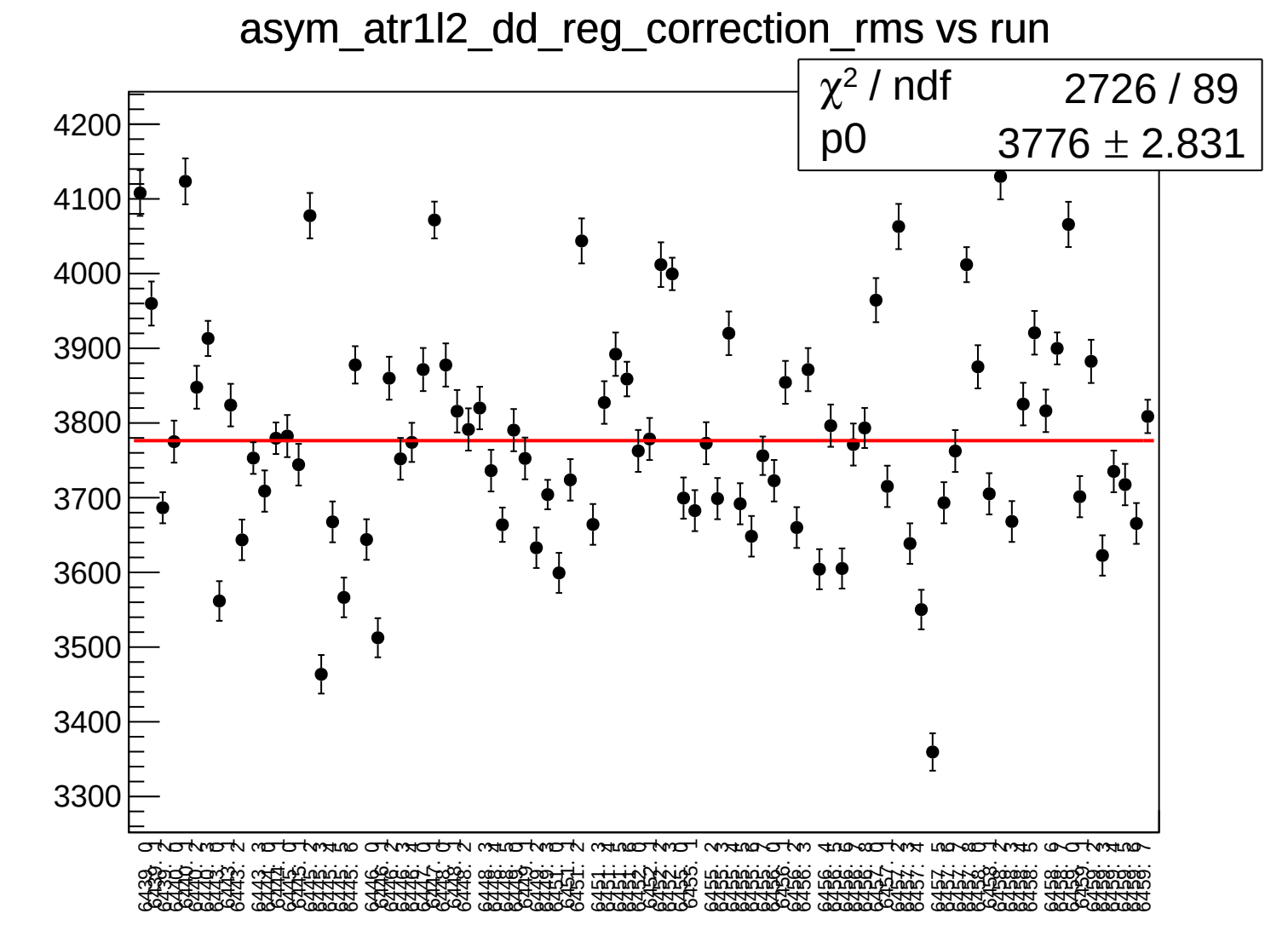

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 87.47 / 89
p0 −1123 ± 2007
pull
Entries 90
Mean −182.2
Std Dev 0

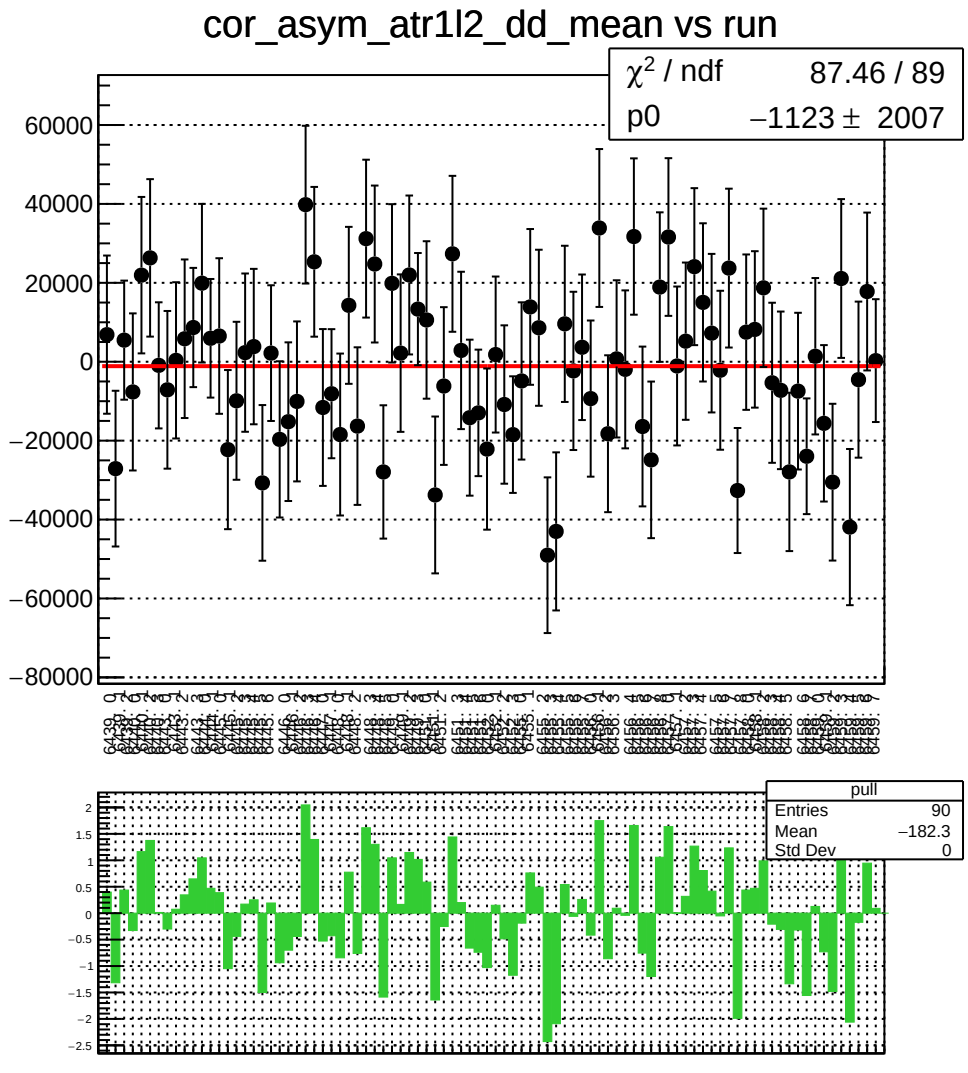

pull1D
Entries 90
Mean 0.01051
Std Dev 0.9858

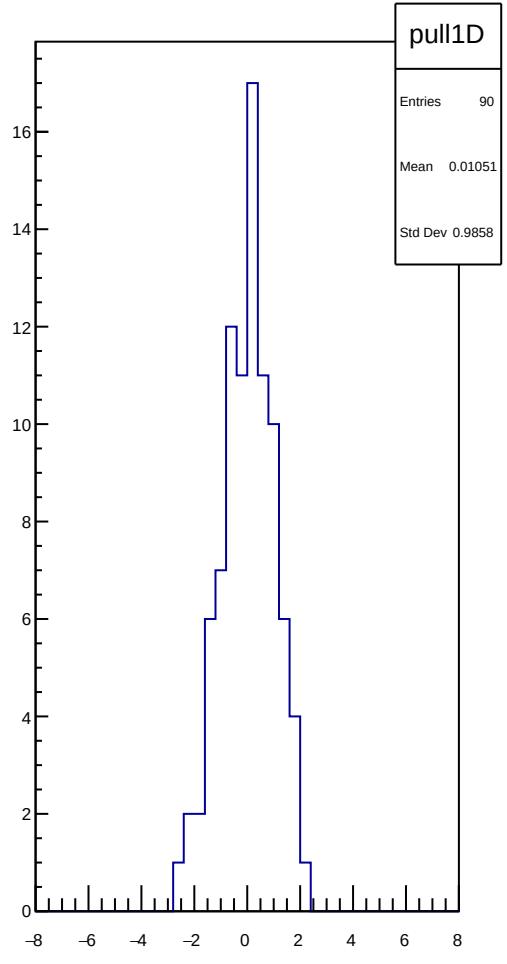

reg_asym_atr1l2_dd_rms vs run
χ² / ndf 123.7 / 89
p0 1894 ± 1.419
1960
1940
1920
1900
1880
1860

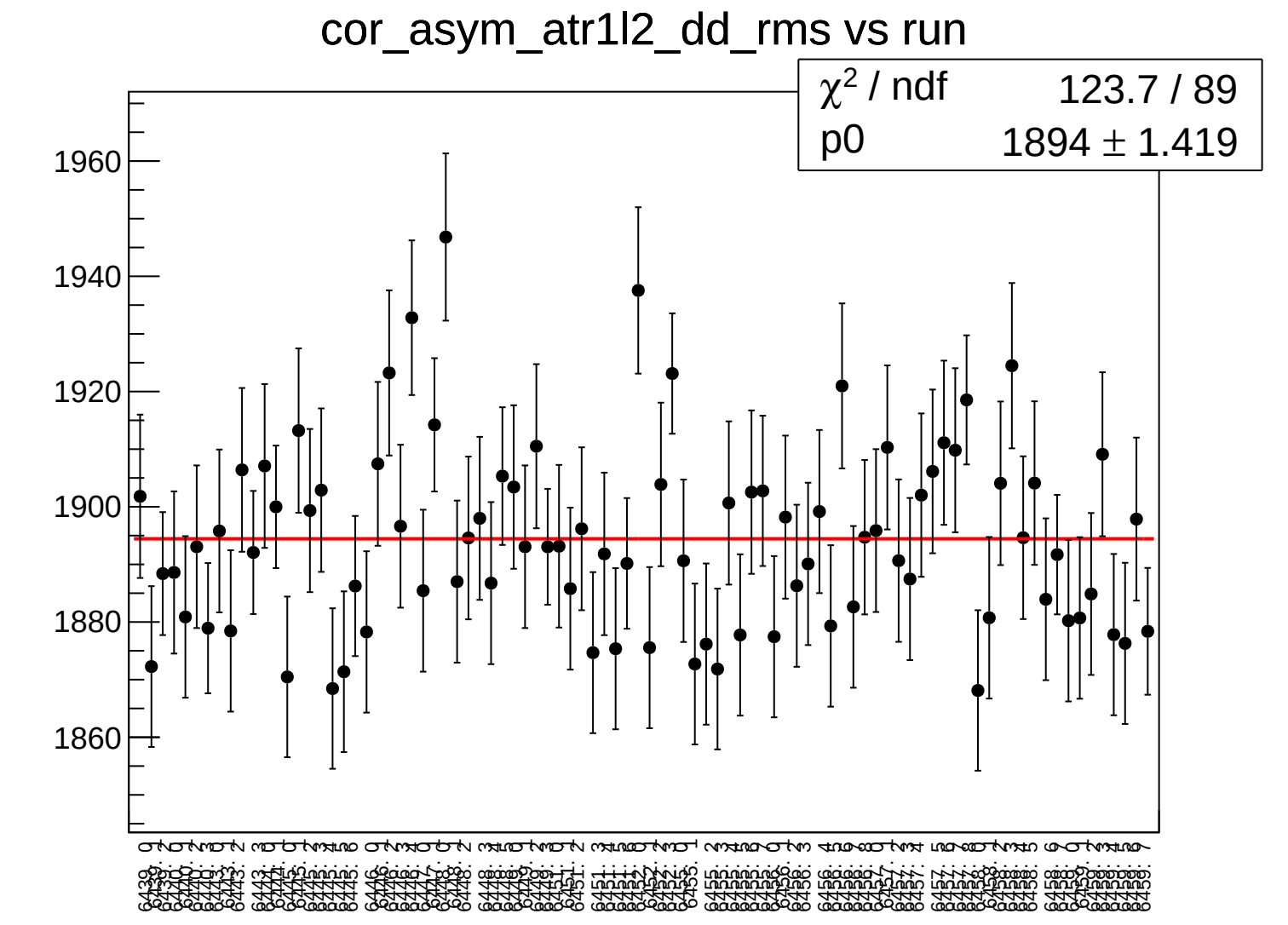

asym_atr1l2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 82.93 / 89
p0 6485 ± 4004
150
100
50
0
−50
−100
pull
Entries 90
Mean −153.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

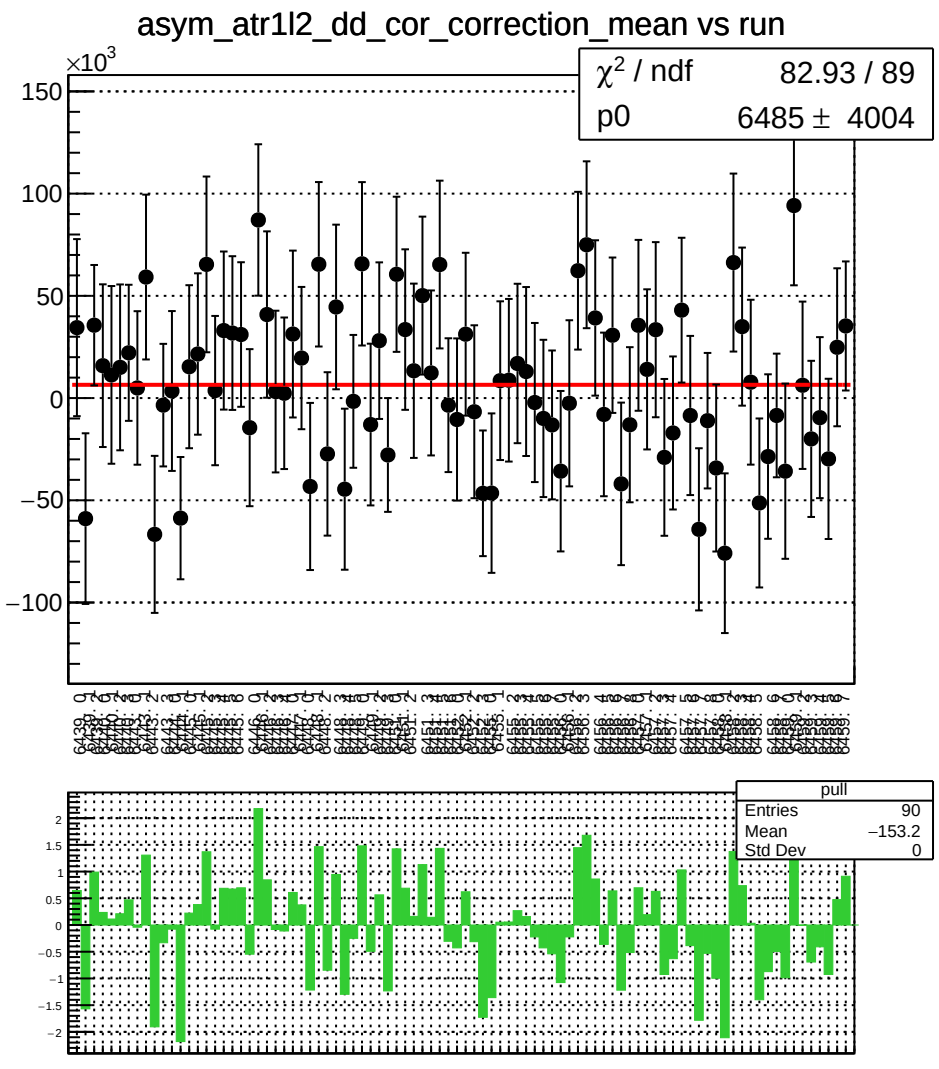

pull1D
Entries 90
Mean 0.01603
Std Dev 0.9598
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

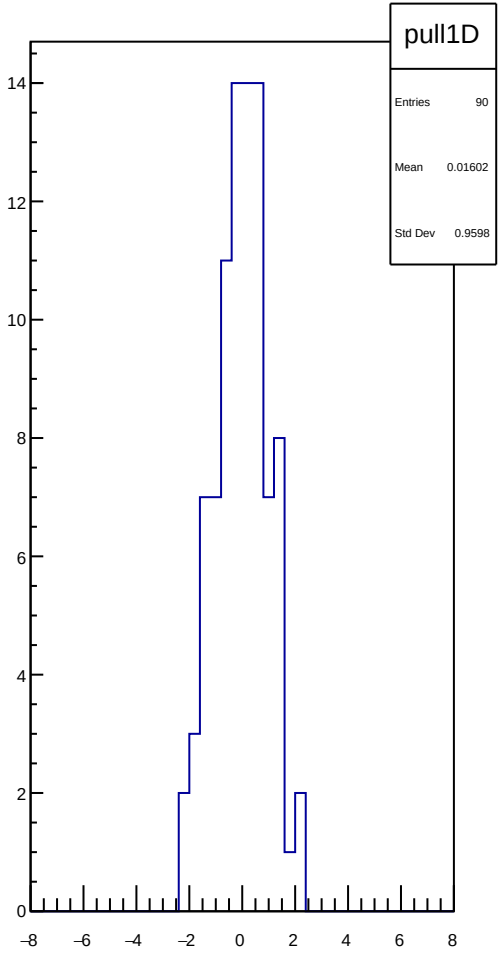

asym_atr1l2_dd_reg_correction_rms vs run
χ² / ndf 2726 / 89
p0 3776 ± 2.831
4200
4100
4000
3900
3800
3700
3600
3500
3400
3300

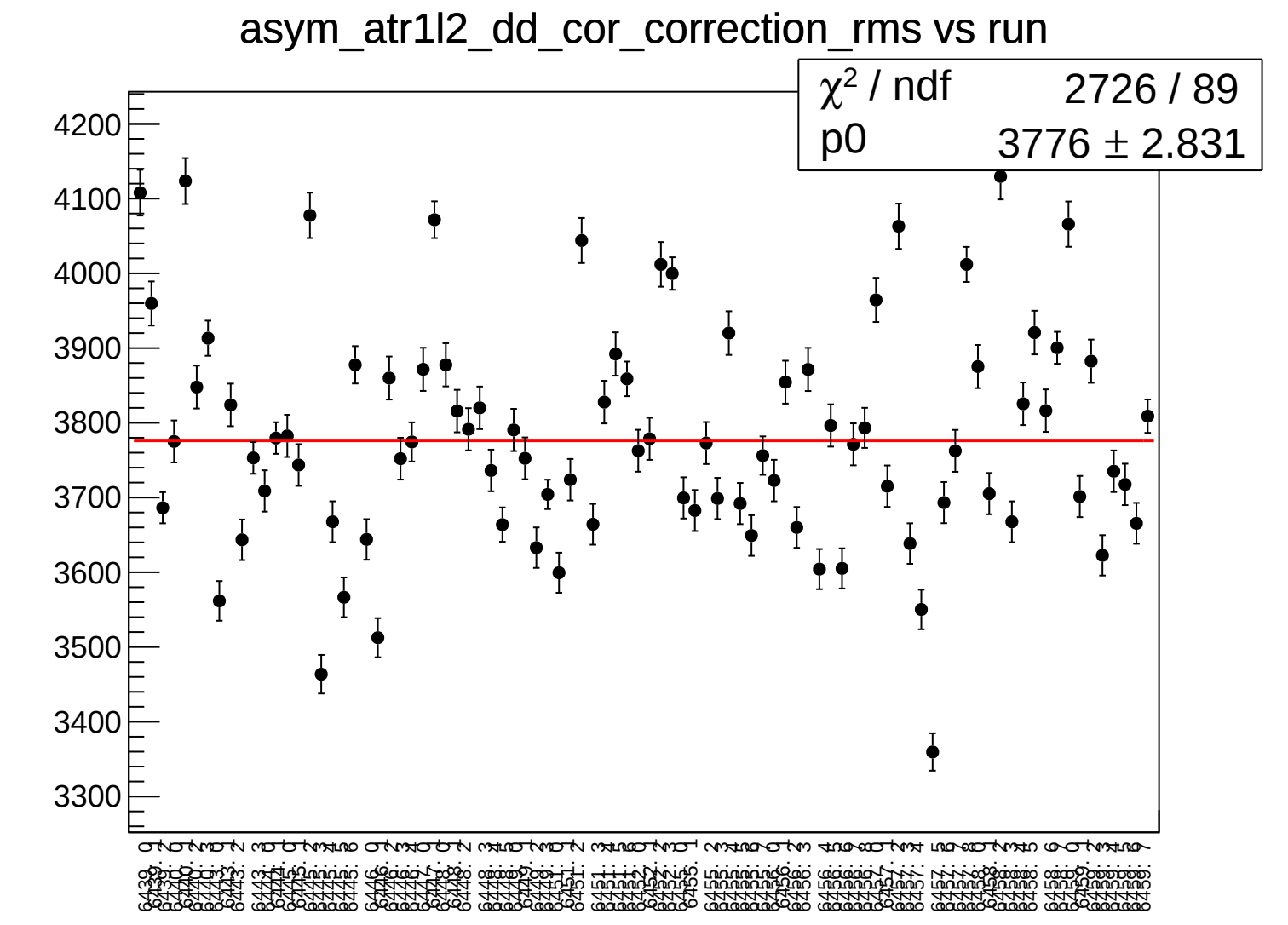

cor_asym_atr1l2_dd_mean vs run
χ² / ndf 87.46 / 89
p0 −1123 ± 2007
pull
Entries 90
Mean −182.3
Std Dev 0

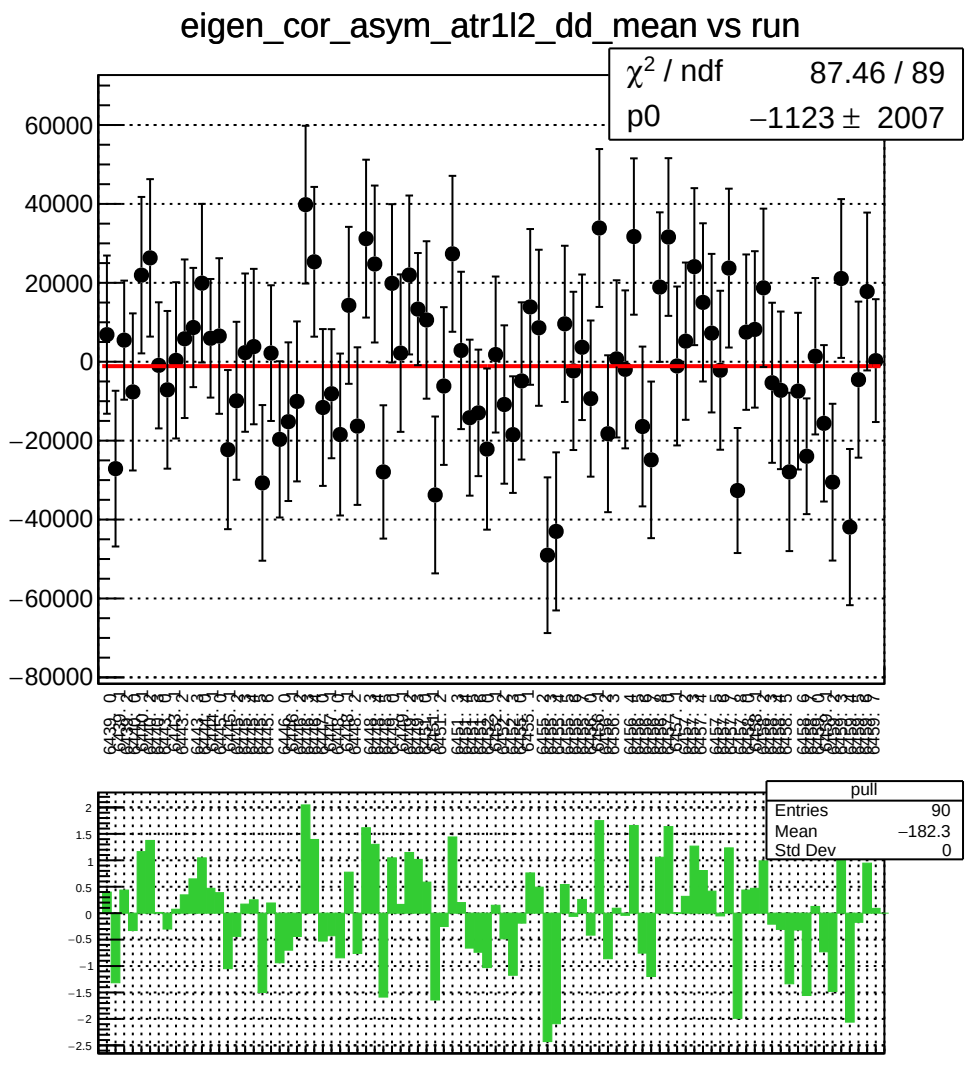

pull1D
Entries 90
Mean 0.01051
Std Dev 0.9858

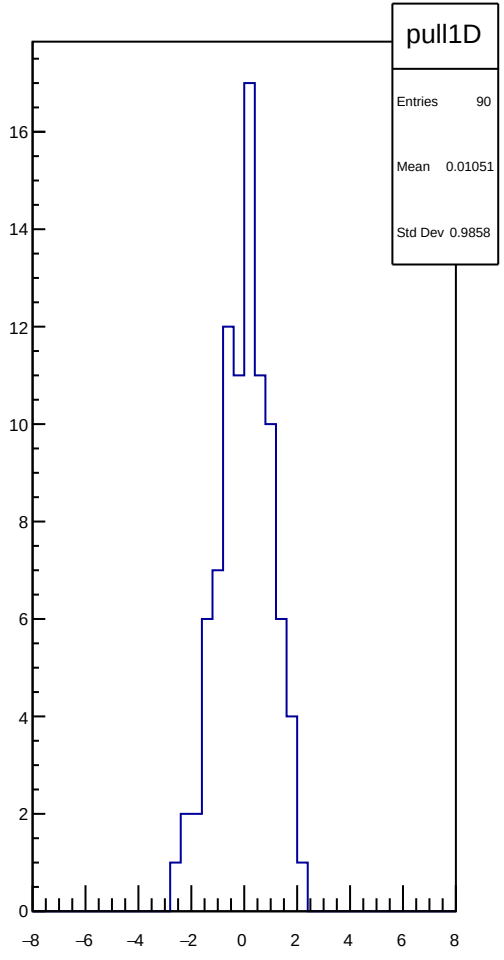

cor_asym_atr1l2_dd_rms vs run
χ² / ndf 123.7 / 89
p0 1894 ± 1.419
1960
1940
1920
1900
1880
1860

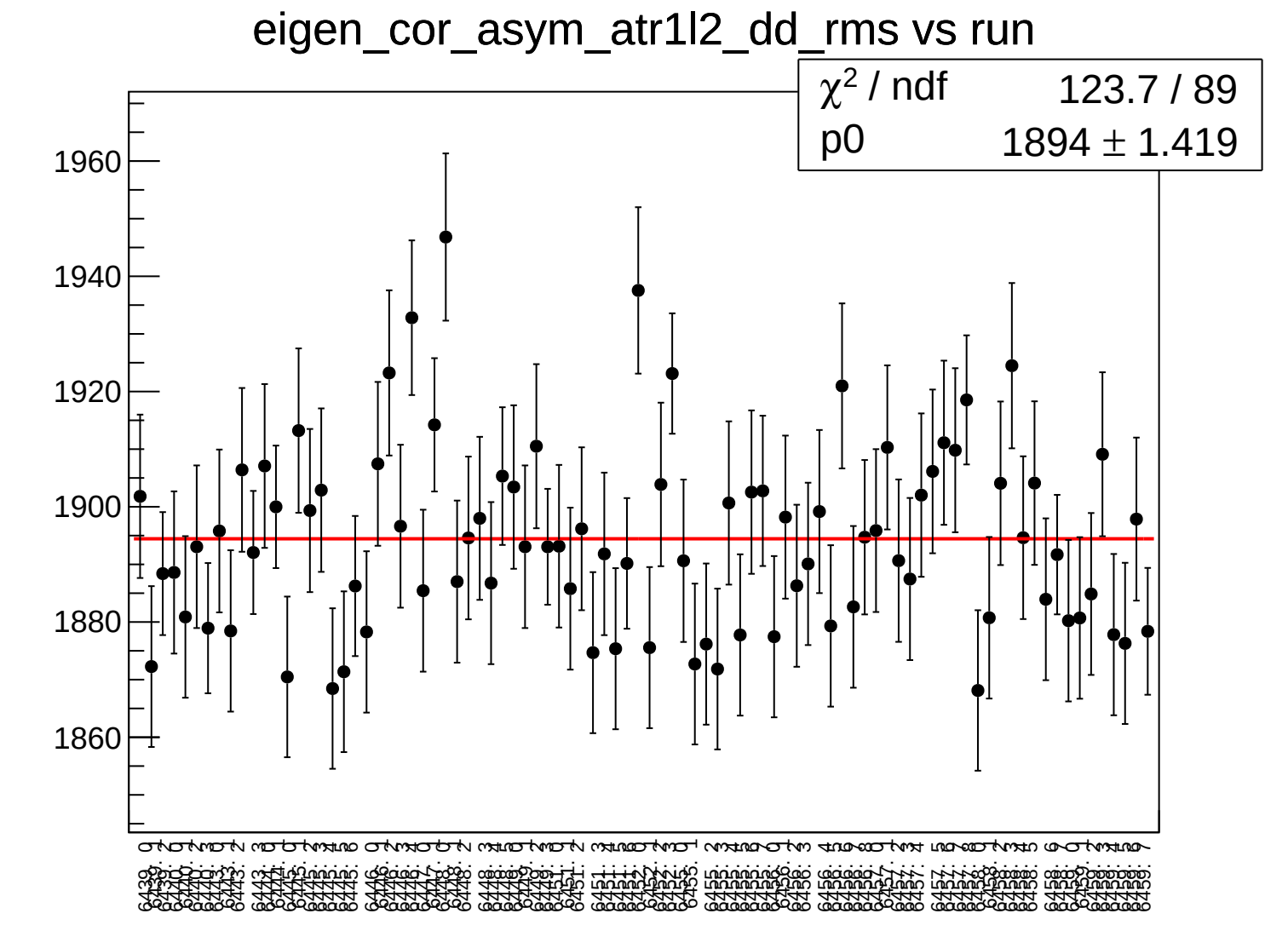

asym_atr1l2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 82.93 / 89
p0 6485 ± 4004
150
100
50
0
−50
−100
pull
Entries 90
Mean −153.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

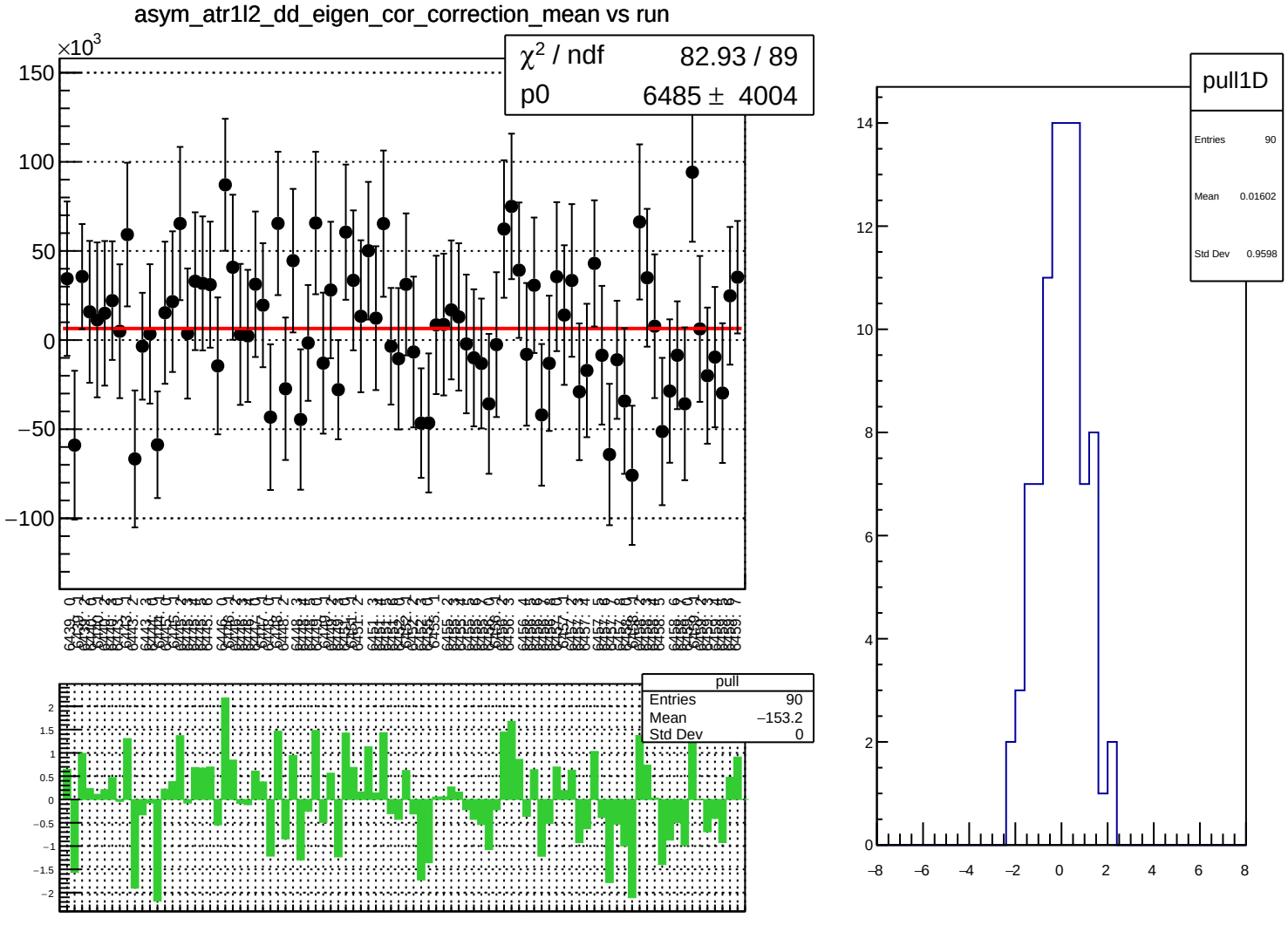

pull1D
Entries 90
Mean 0.01602
Std Dev 0.9598
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

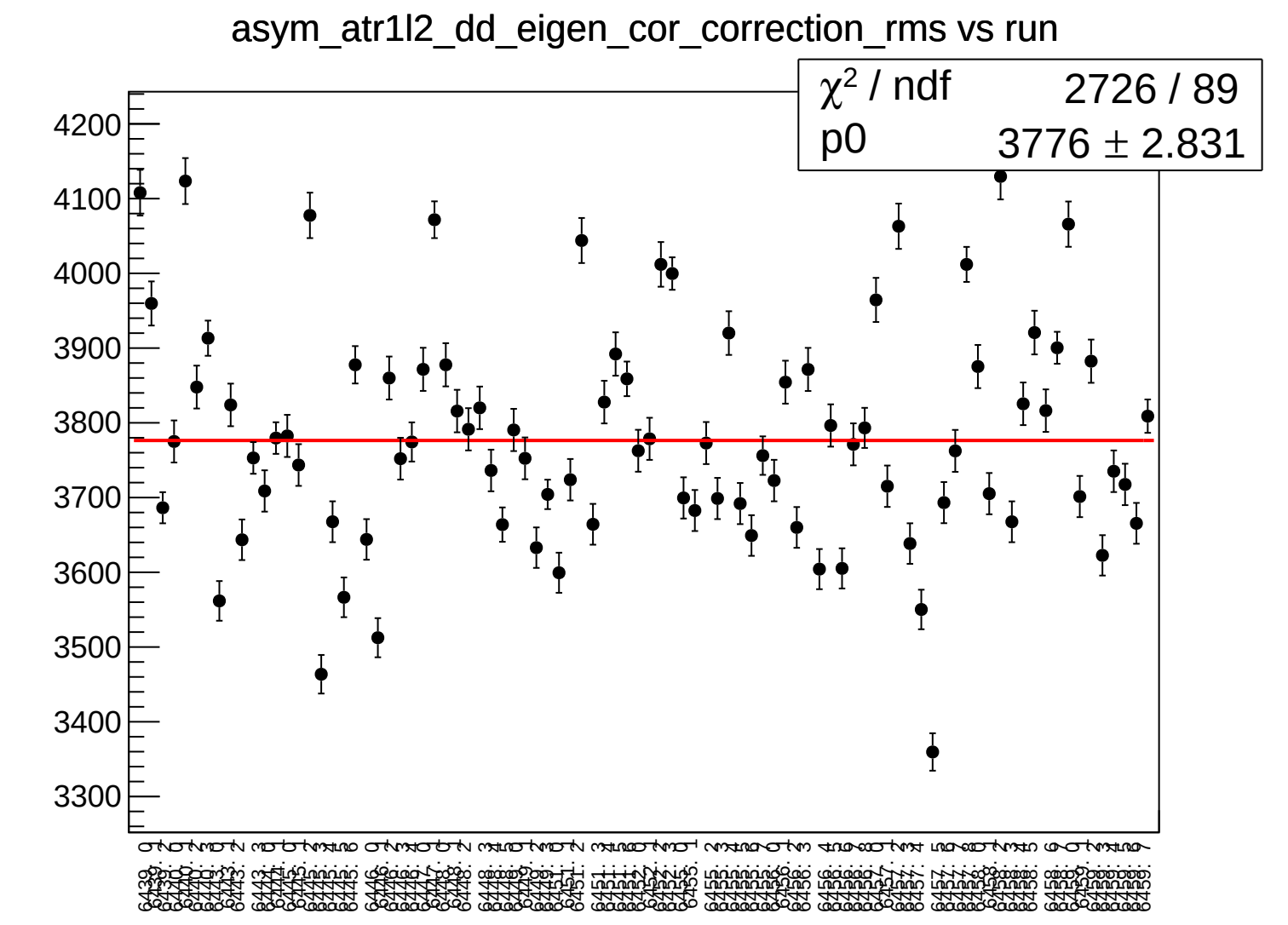

asym_atr1l2_dd_cor_correction_rms vs run
χ² / ndf 2726 / 89
p0 3776 ± 2.831
4200
4100
4000
3900
3800
3700
3600
3500
3400
3300

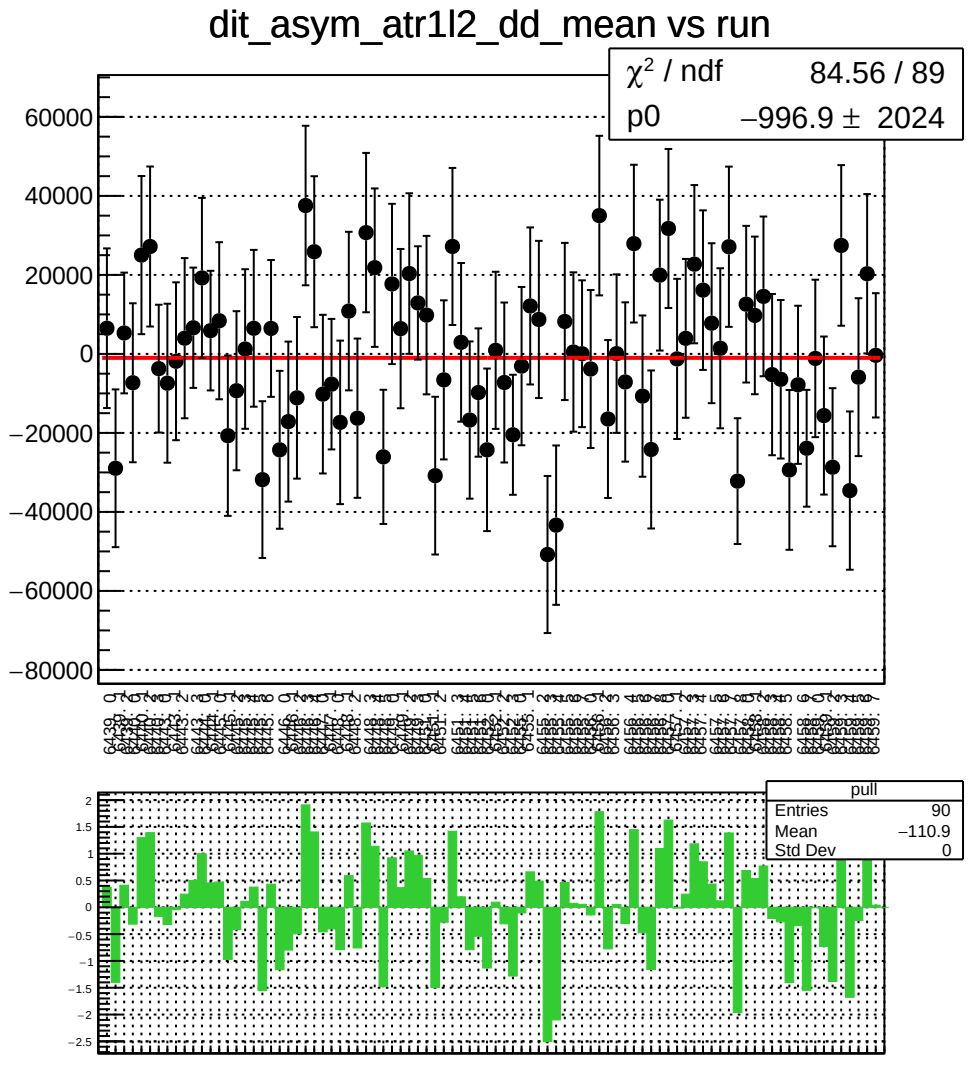

eigen_cor_asym_atr1l2_dd_mean vs run
χ² / ndf 87.46 / 89
p0 −1123 ± 2007
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 90
Mean −182.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

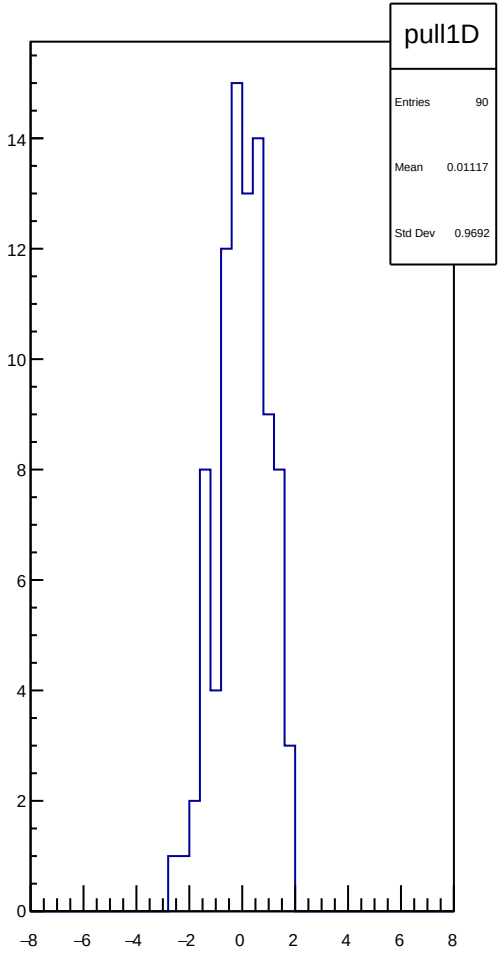

pull1D
Entries 90
Mean 0.01051
Std Dev 0.9858
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

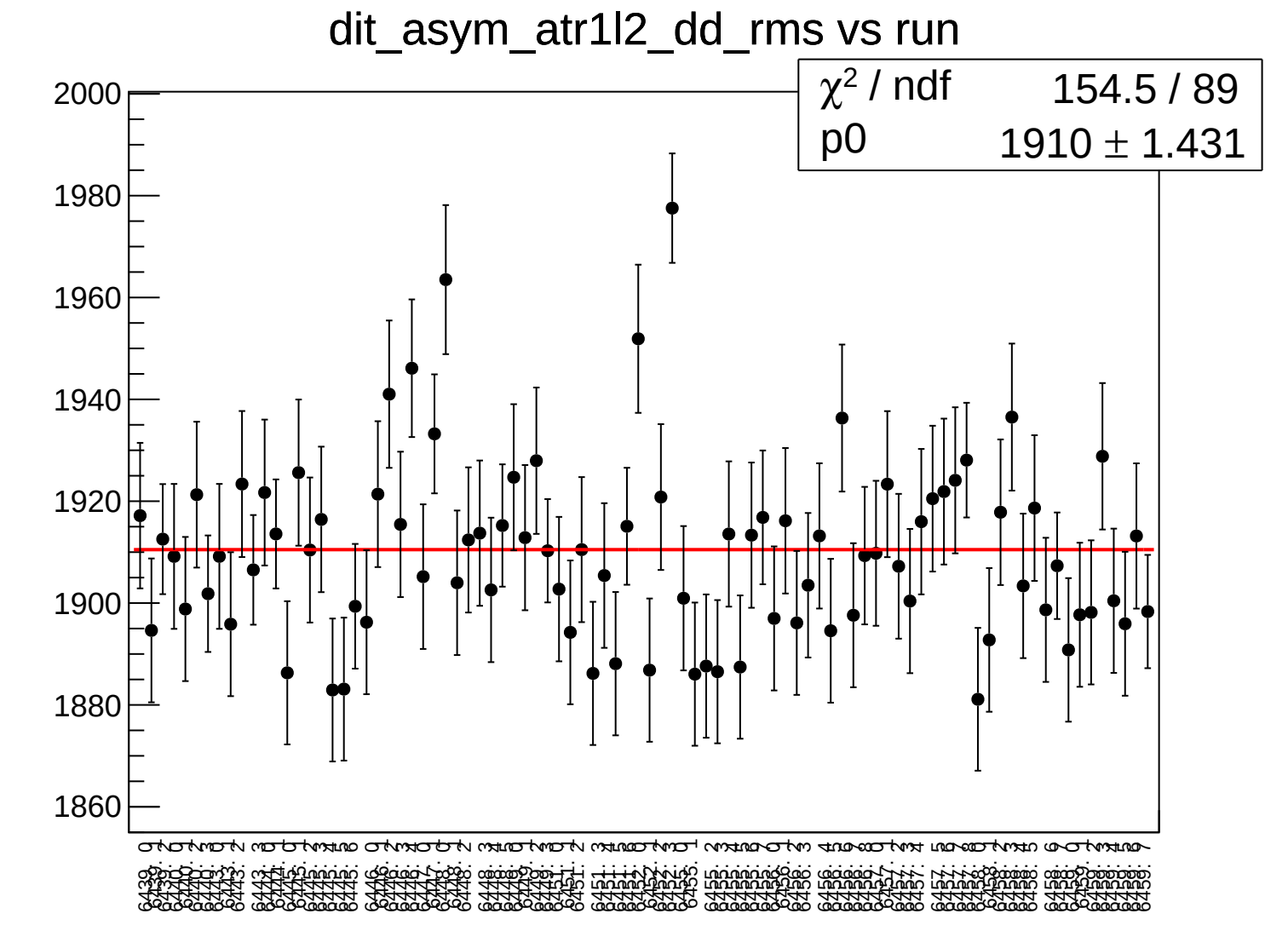

eigen_cor_asym_atr1l2_dd_rms vs run
χ^2 / ndf 123.7 / 89
p0 1894 ± 1.419
1960
1940
1920
1900
1880
1860

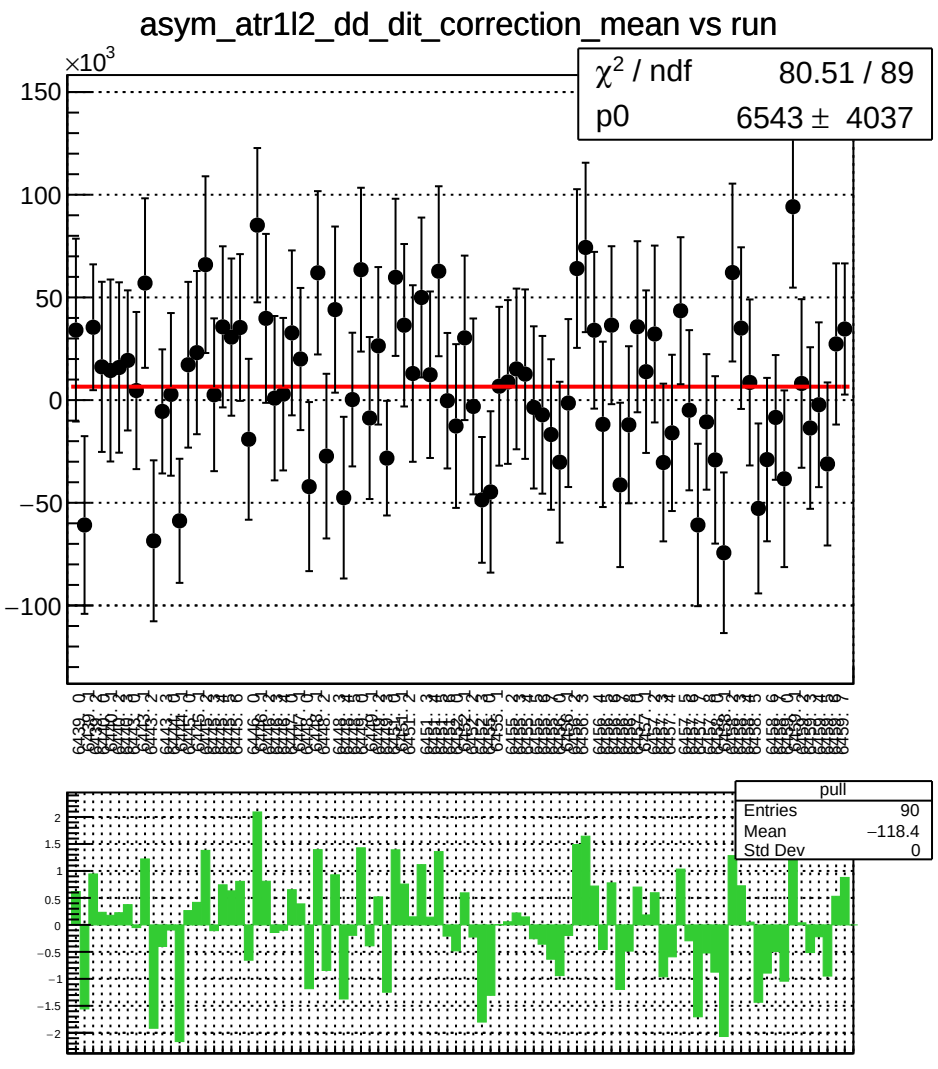

asym_atr1l2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 82.93 / 89
p0 6485 ± 4004
150
100
50
0
−50
−100
pull
Entries 90
Mean −153.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 90
Mean 0.01602
Std Dev 0.9598
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

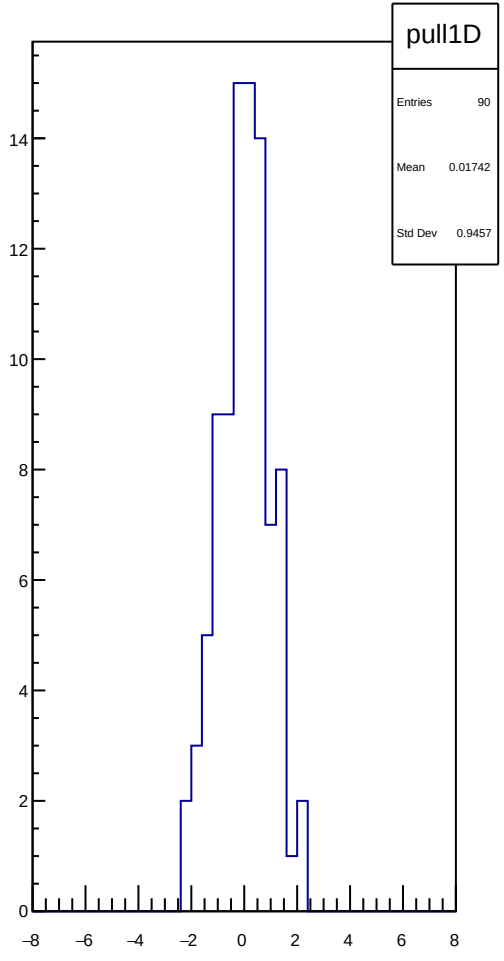

asym_atr1l2_dd_eigen_cor_correction_rms vs run
χ² / ndf 2726 / 89
p0 3776 ± 2.831
4200
4100
4000
3900
3800
3700
3600
3500
3400
3300

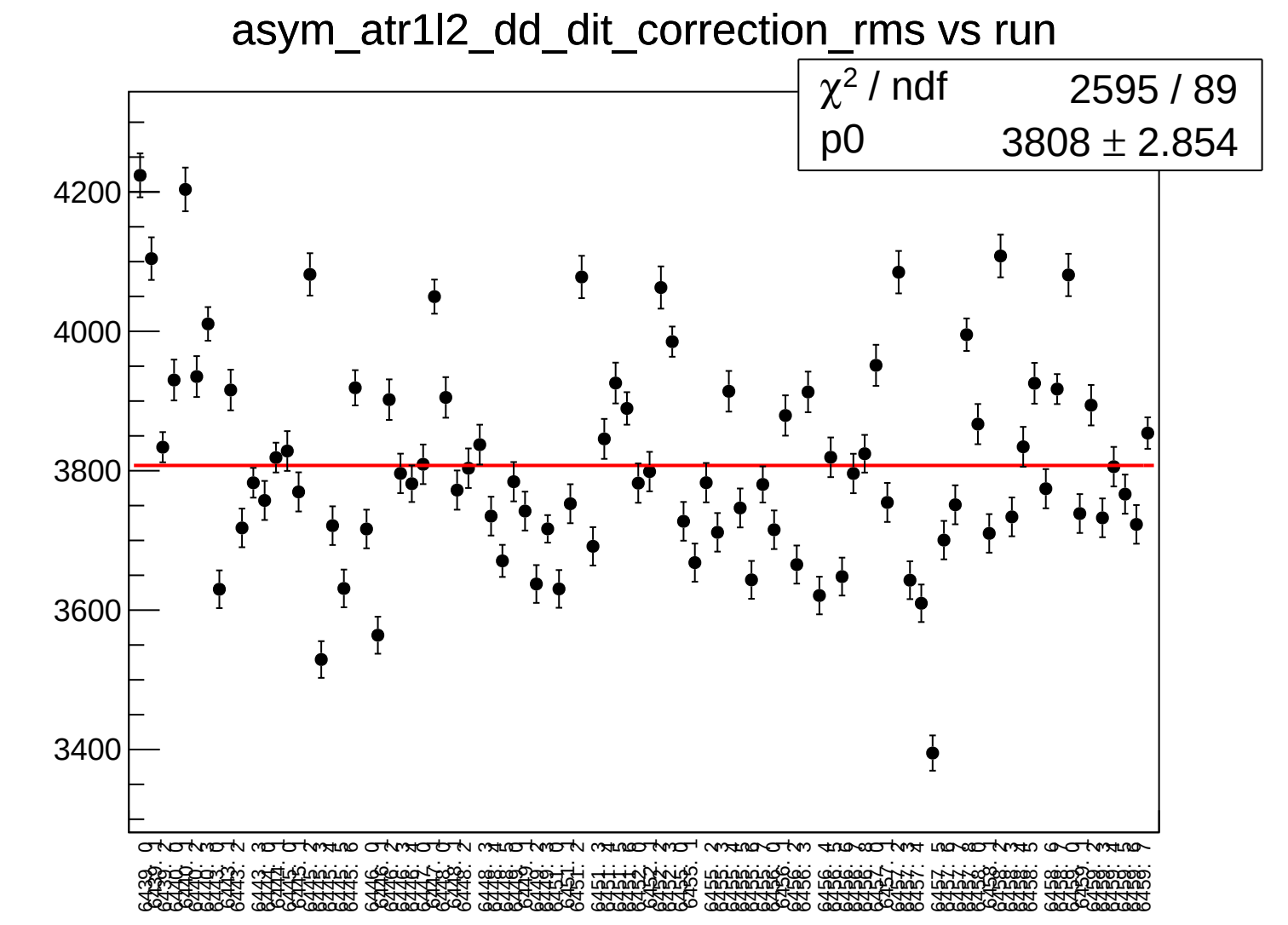

dit_asym_atr1l2_dd_mean vs run
χ² / ndf 84.56 / 89
p0 −996.9 ± 2024
pull
Entries 90
Mean −110.9
Std Dev 0

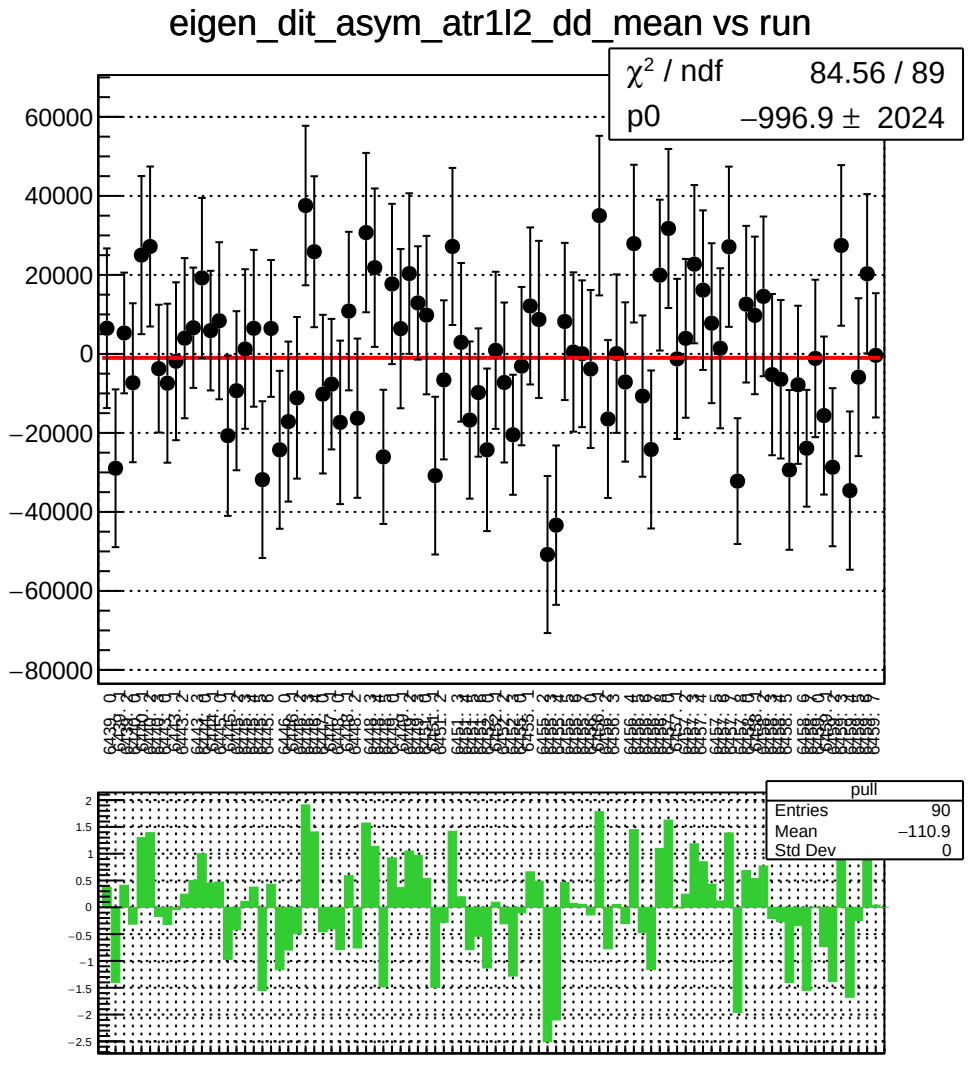

pull1D
Entries 90
Mean 0.01117
Std Dev 0.9692

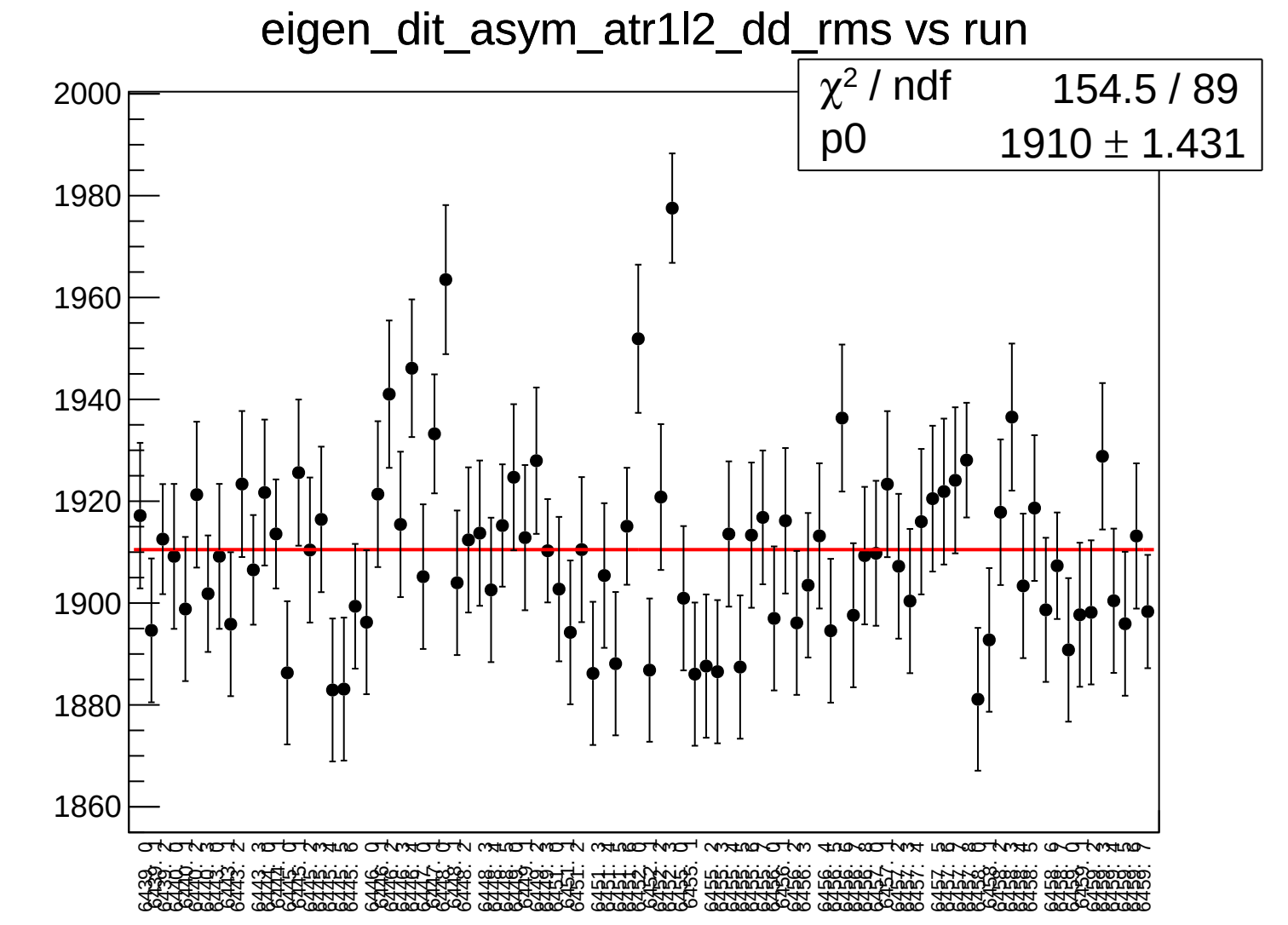

dit_asym_atr1l2_dd_rms vs run
χ² / ndf 154.5 / 89
p0 1910 ± 1.431
2000
1980
1960
1940
1920
1900
1880
1860

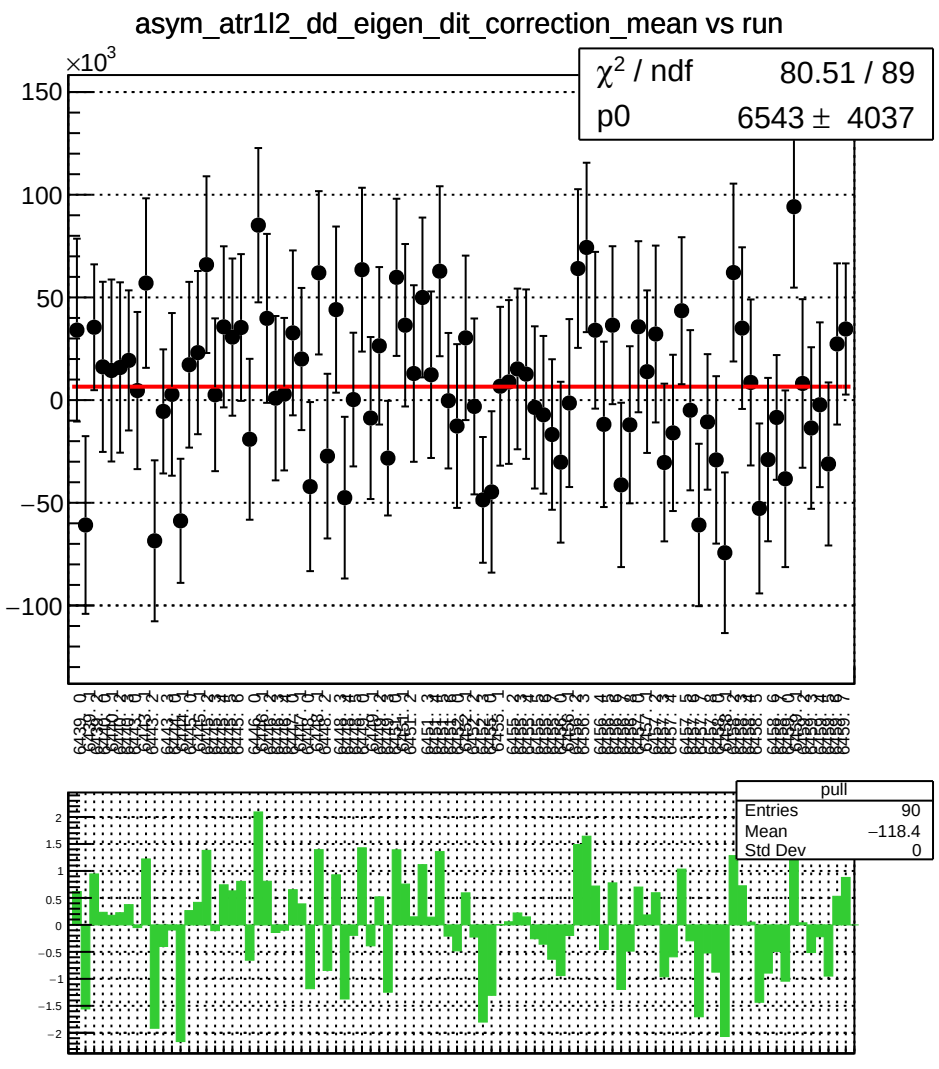

asym_atr1l2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 80.51 / 89
p0 6543 ± 4037
150
100
50
0
−50
−100
pull
Entries 90
Mean −118.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

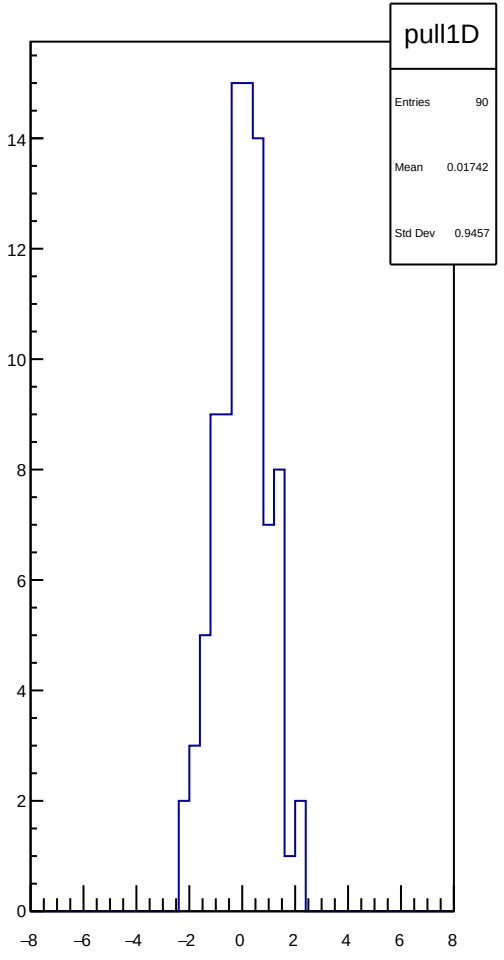

pull1D
Entries 90
Mean 0.01742
Std Dev 0.9457
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

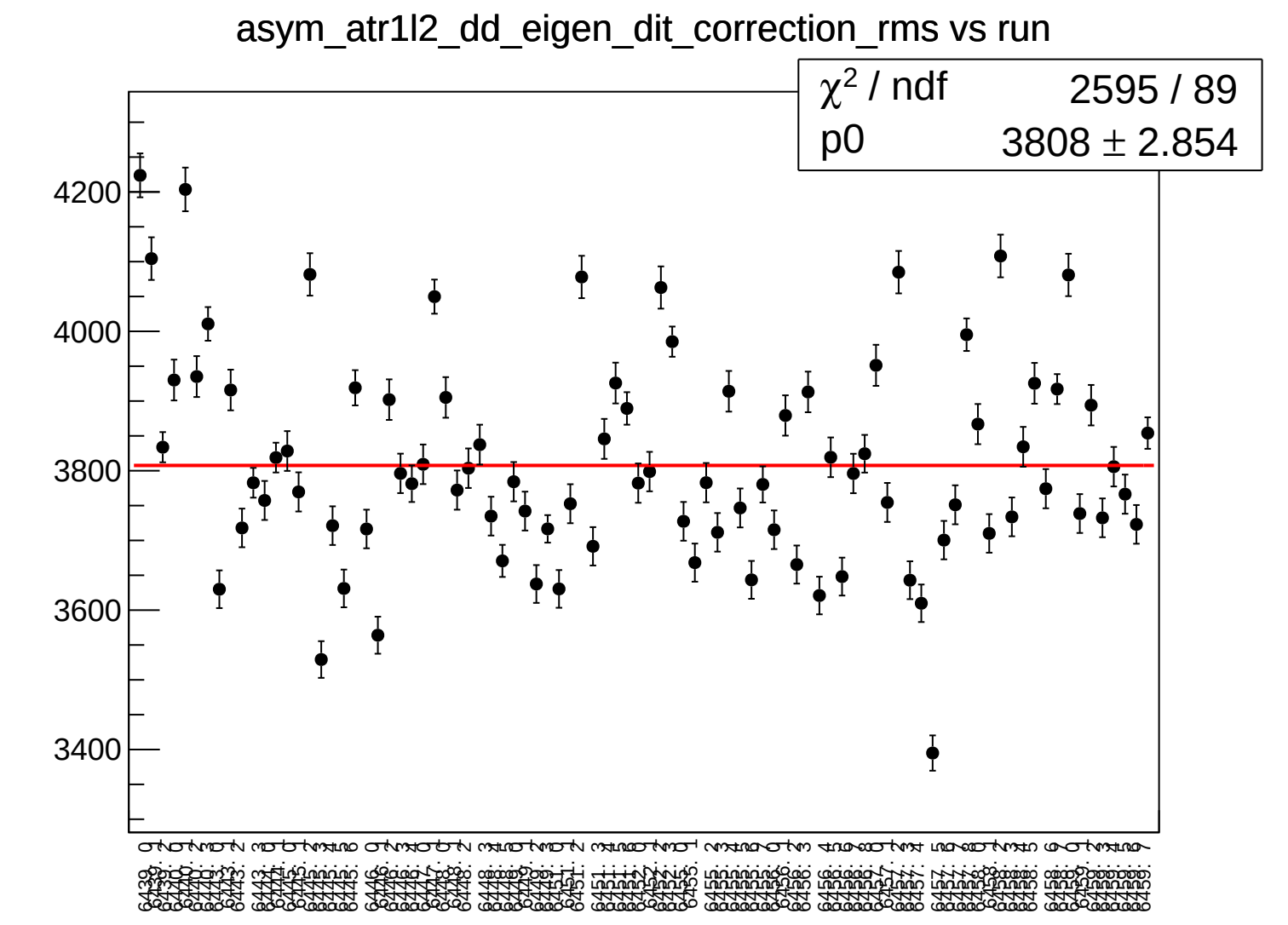

asym_atr1l2_dd_dit_correction_rms vs run
χ² / ndf 2595 / 89
p0 3808 ± 2.854
4200
4000
3800
3600
3400

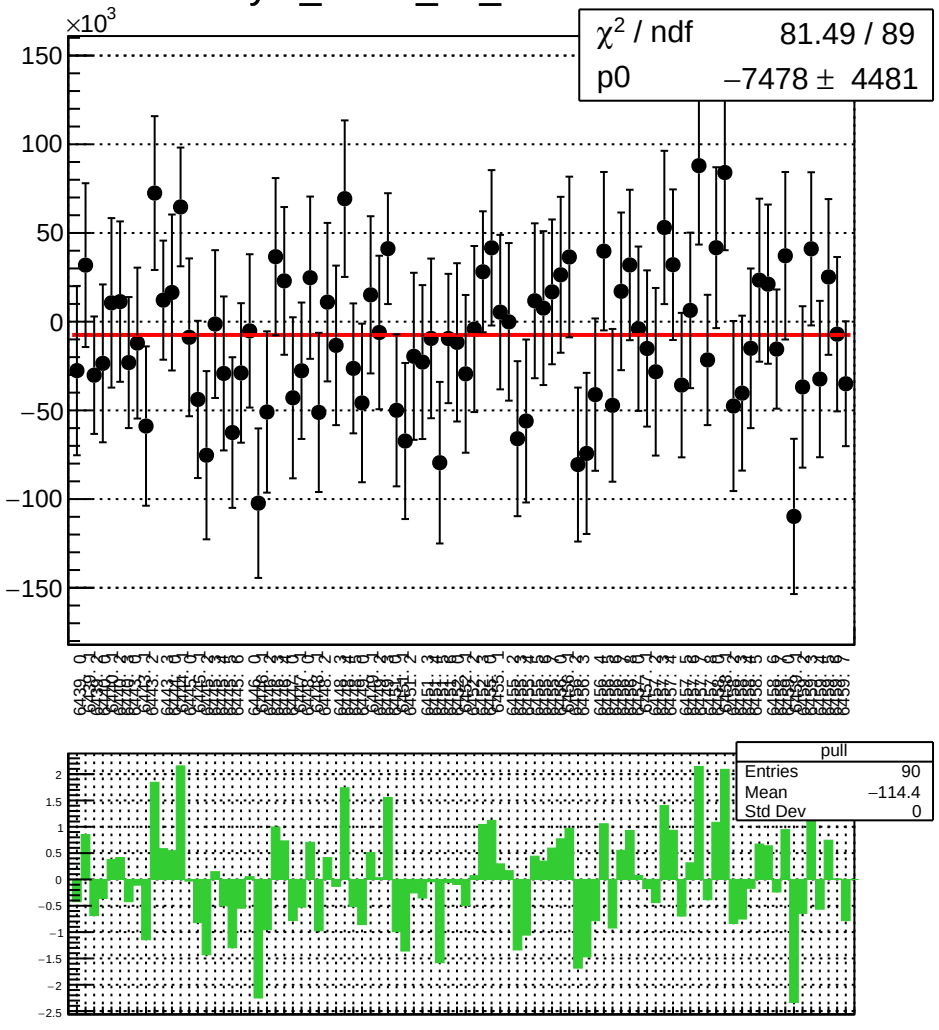

eigen_dit_asym_atr1l2_dd_mean vs run
χ² / ndf 84.56 / 89
p0 −996.9 ± 2024
pull
Entries 90
Mean −110.9
Std Dev 0
pull1D
Entries 90
Mean 0.01117
Std Dev 0.9692

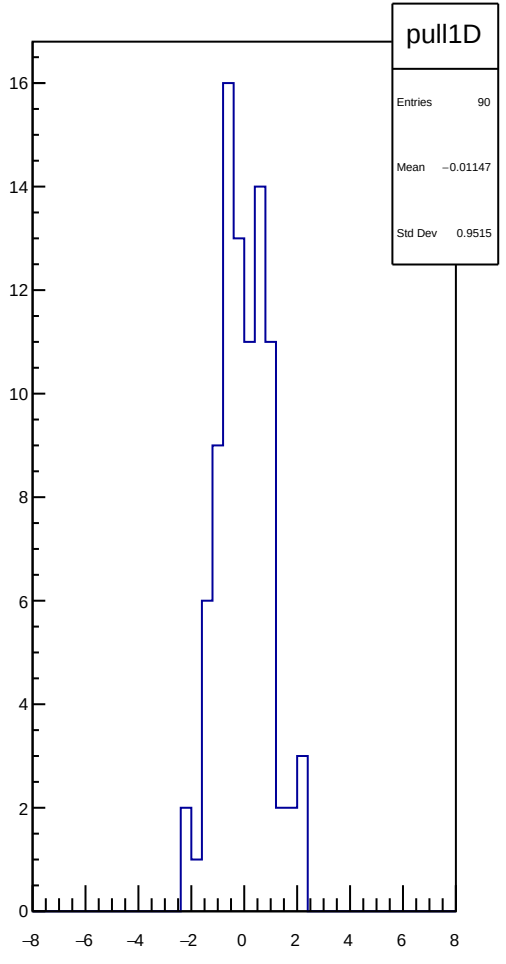

eigen_dit_asym_atr1l2_dd_rms vs run
χ^2 / ndf 154.5 / 89
p0 1910 ± 1.431
2000
1980
1960
1940
1920
1900
1880
1860

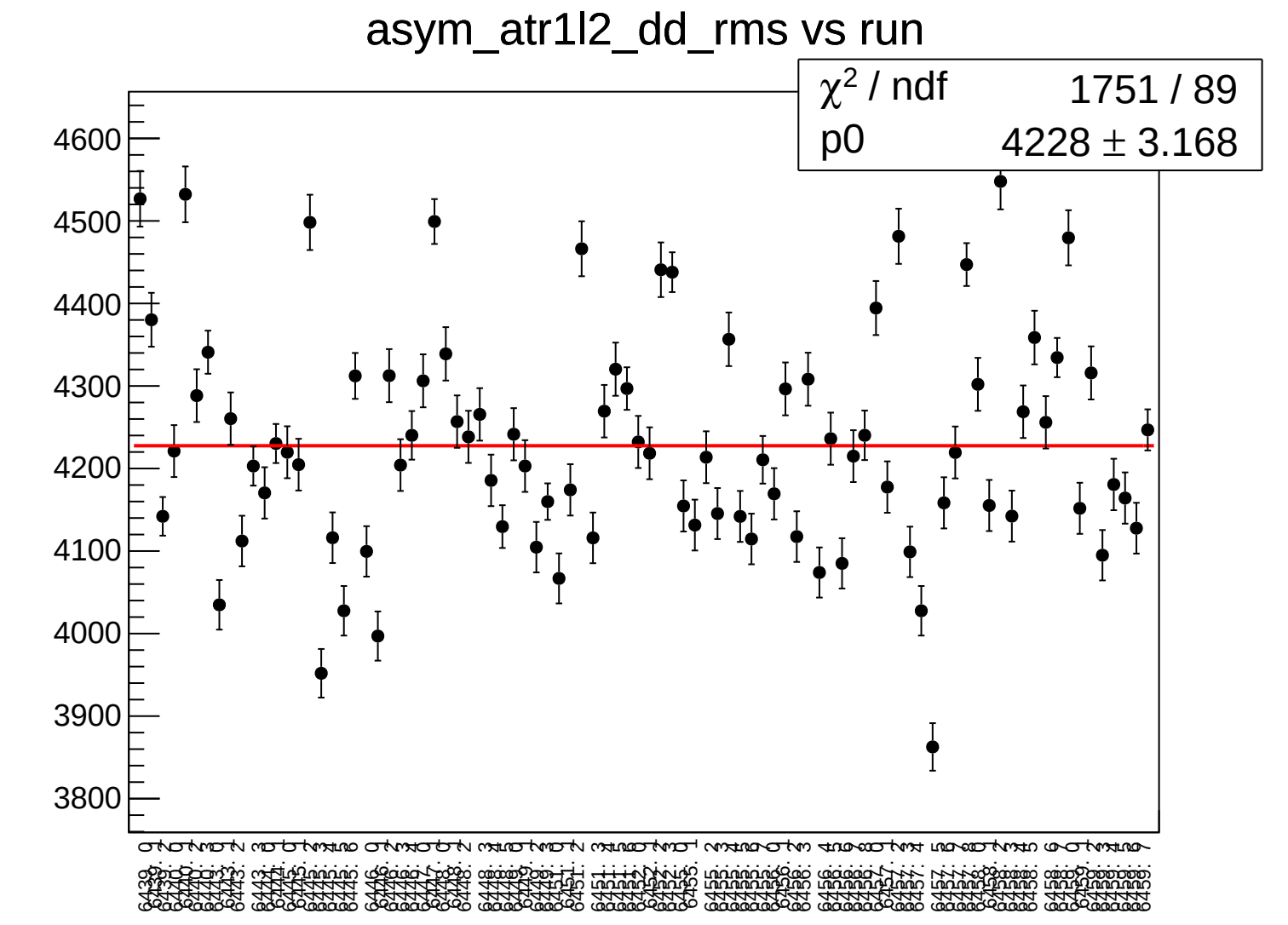

asym_atr1l2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 80.51 / 89
p0 6543 ± 4037
150
100
50
0
−50
−100
pull
Entries 90
Mean −118.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

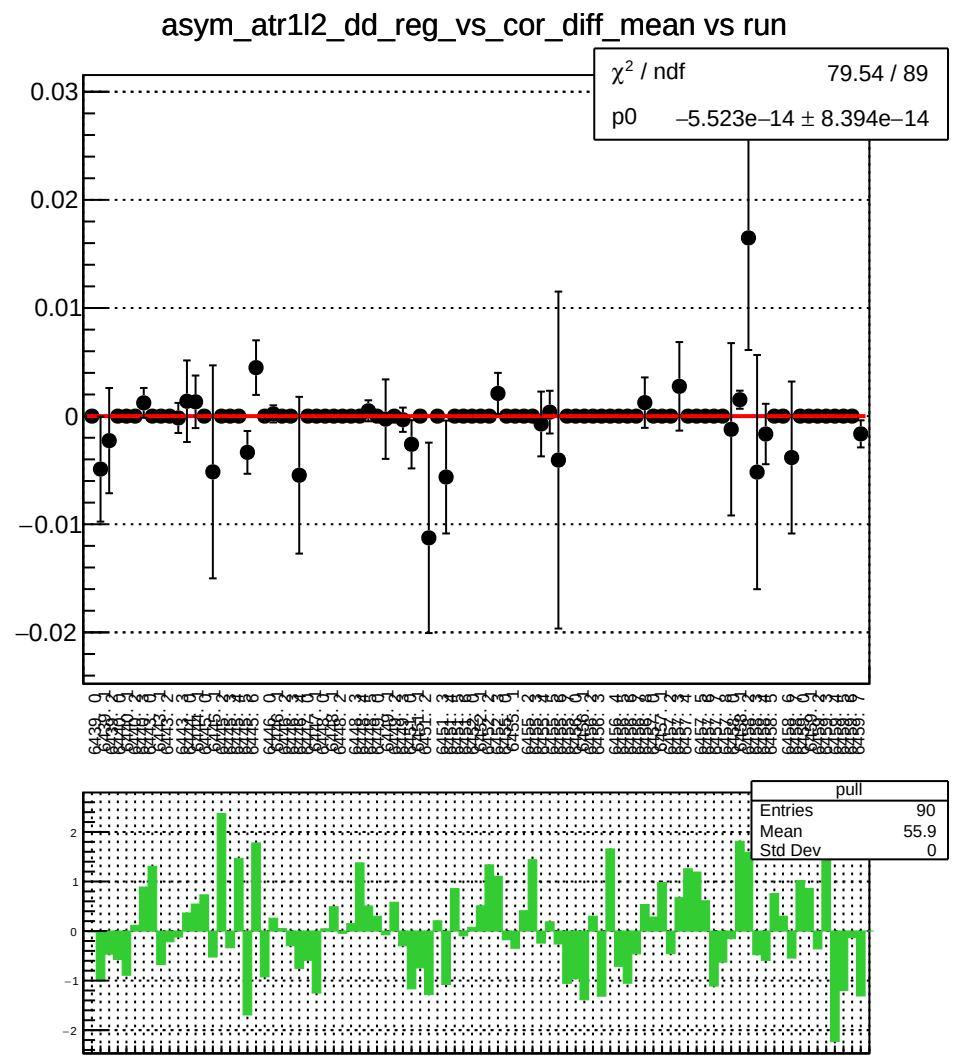

pull1D
Entries 90
Mean 0.01742
Std Dev 0.9457
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

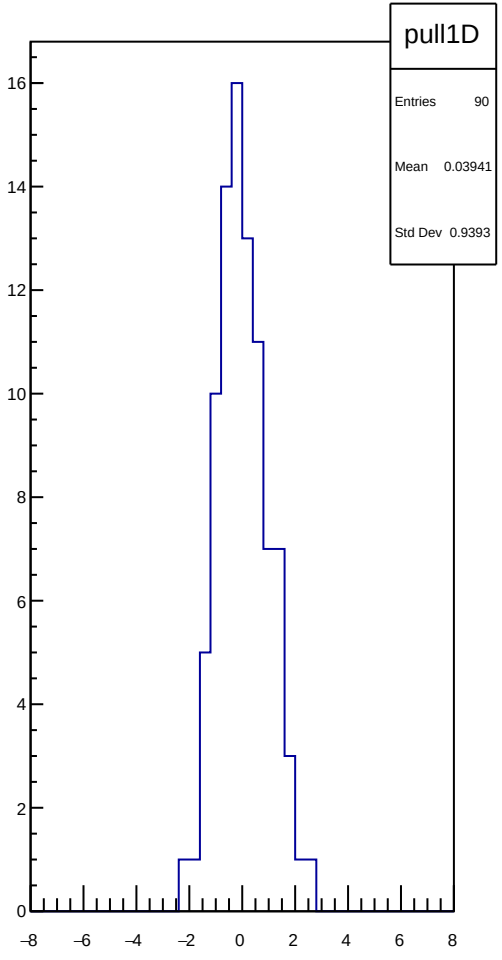

asym_atr1l2_dd_eigen_dit_correction_rms vs run
χ² / ndf 2595 / 89
p0 3808 ± 2.854
4200
4000
3800
3600
3400

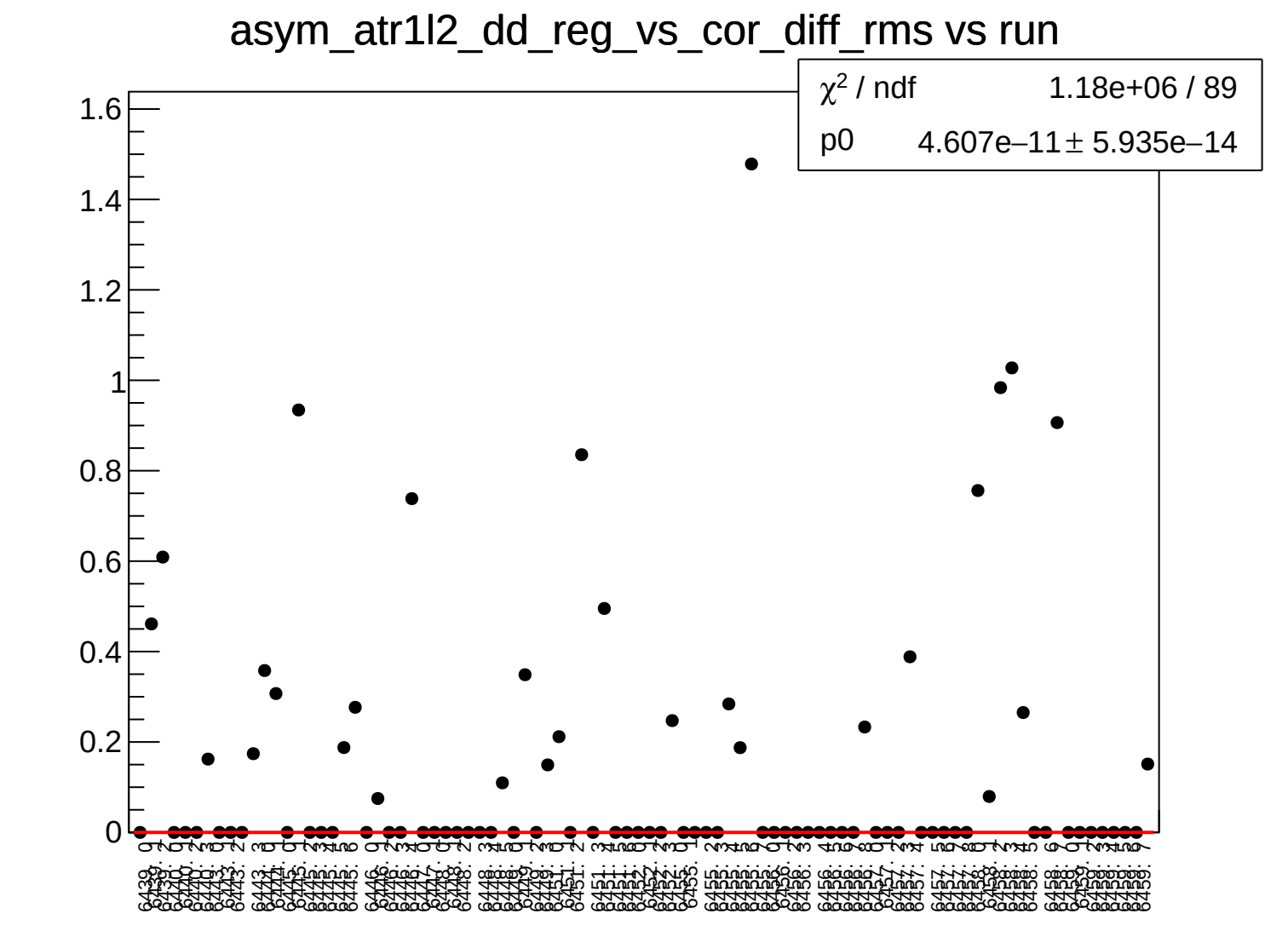

asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 81.49 / 89
p0 −7478 ± 4481
150
100
50
0
−50
−100
−150
pull
Entries 90
Mean −114.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

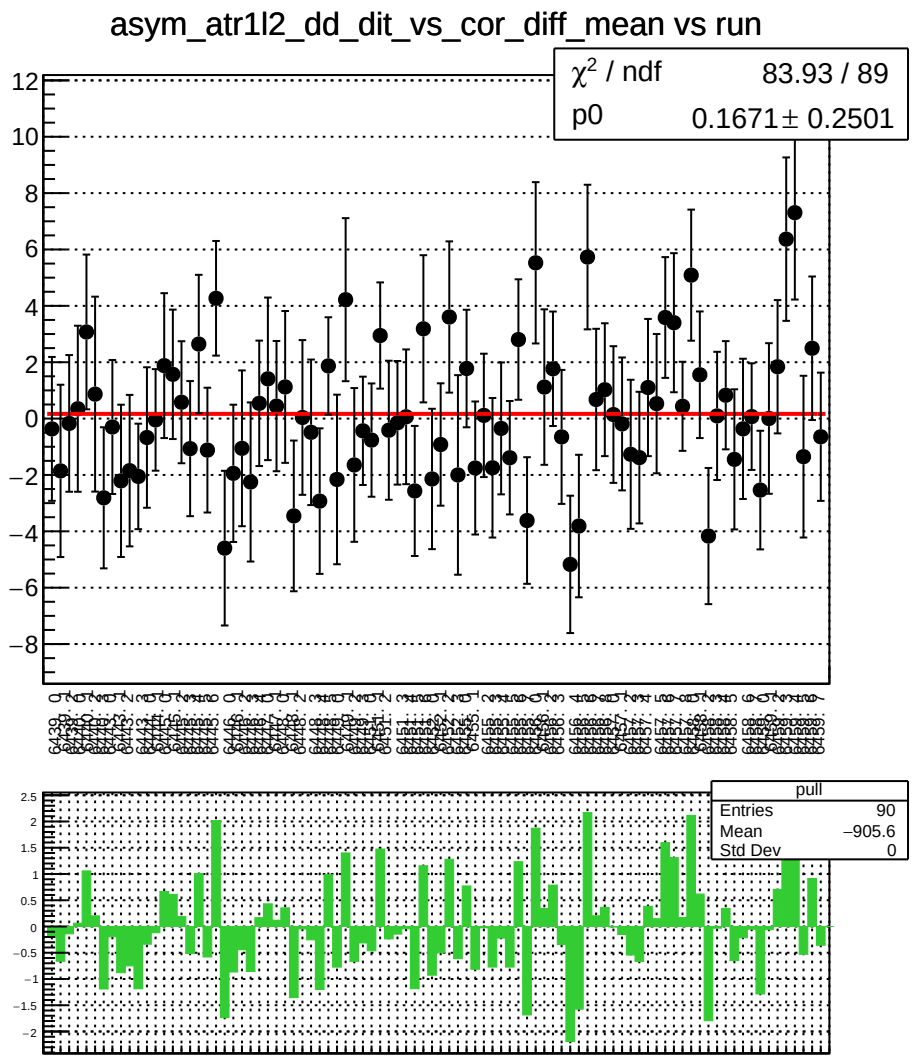

pull1D
Entries 90
Mean −0.01147
Std Dev 0.9515
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

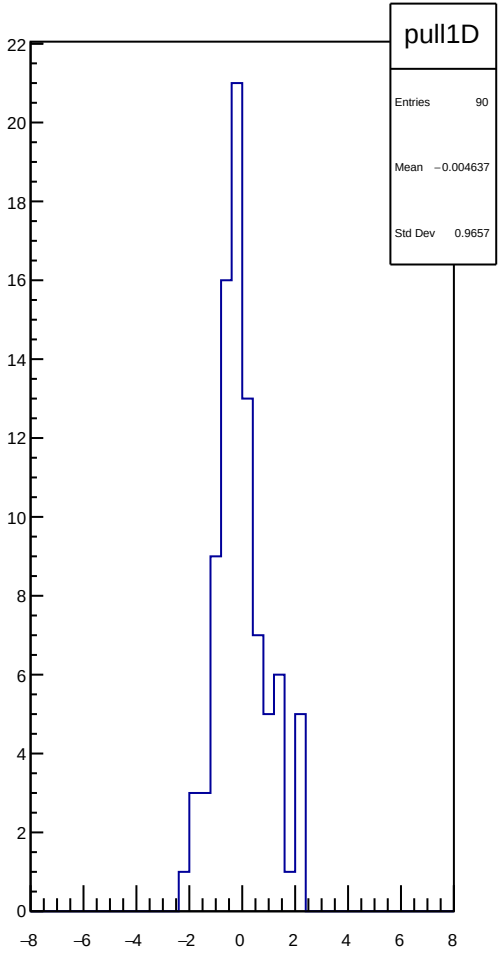

asym_atr1l2_dd_rms vs run
χ^2 / ndf 1751 / 89
p0 4228 ± 3.168
4600
4500
4400
4300
4200
4100
4000
3900
3800

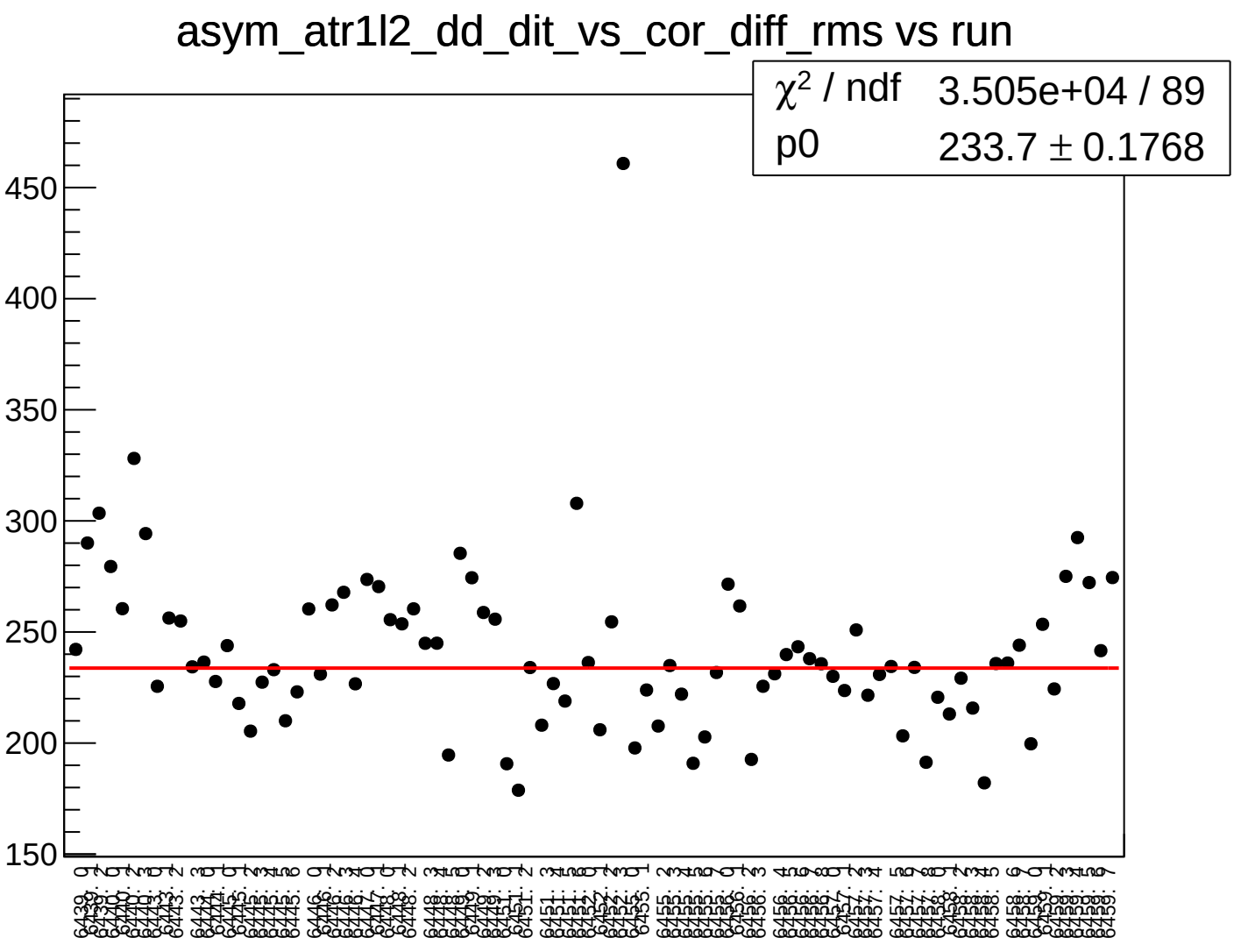

asym_atr1l2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 79.54 / 89
p0 −5.523e−14 ± 8.394e−14
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 90
Mean 55.9
Std Dev 0
2
1
0
−1
−2

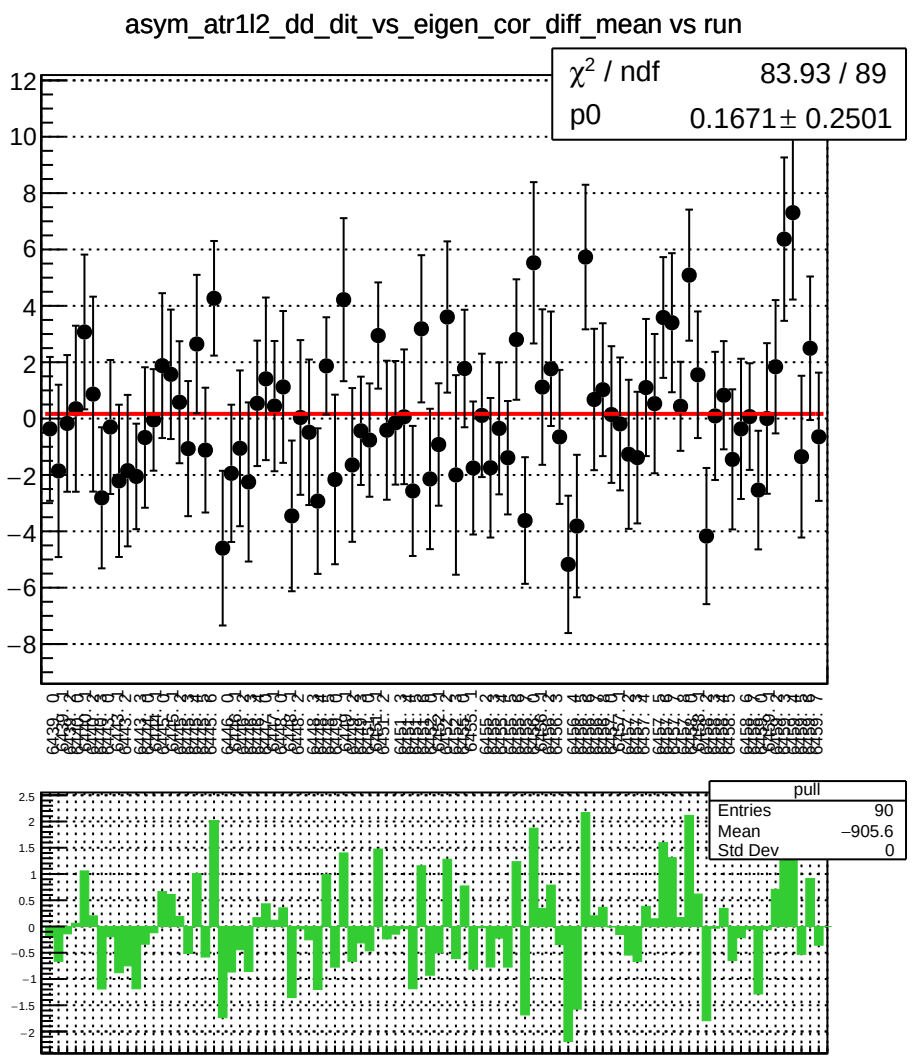

pull1D
Entries 90
Mean 0.03941
Std Dev 0.9393
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

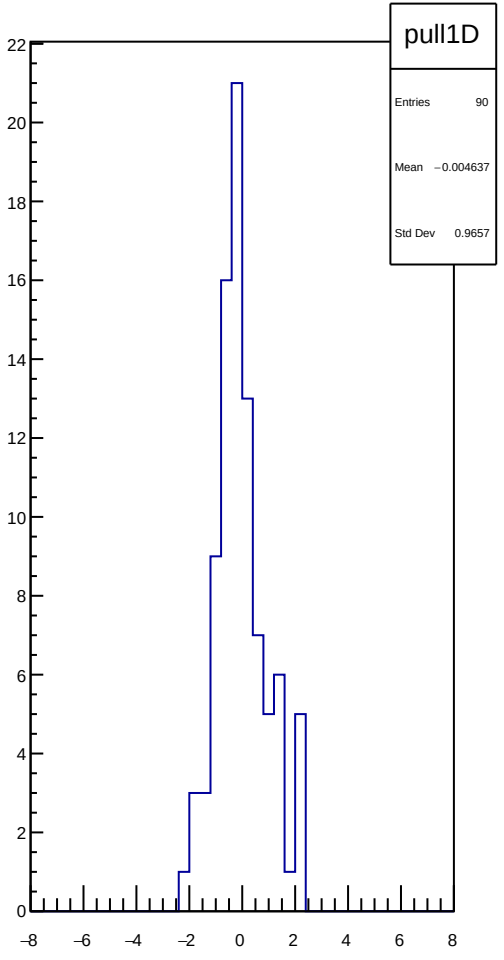

asym_atr1l2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.18e+06 / 89
p0 4.607e−11 ± 5.935e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

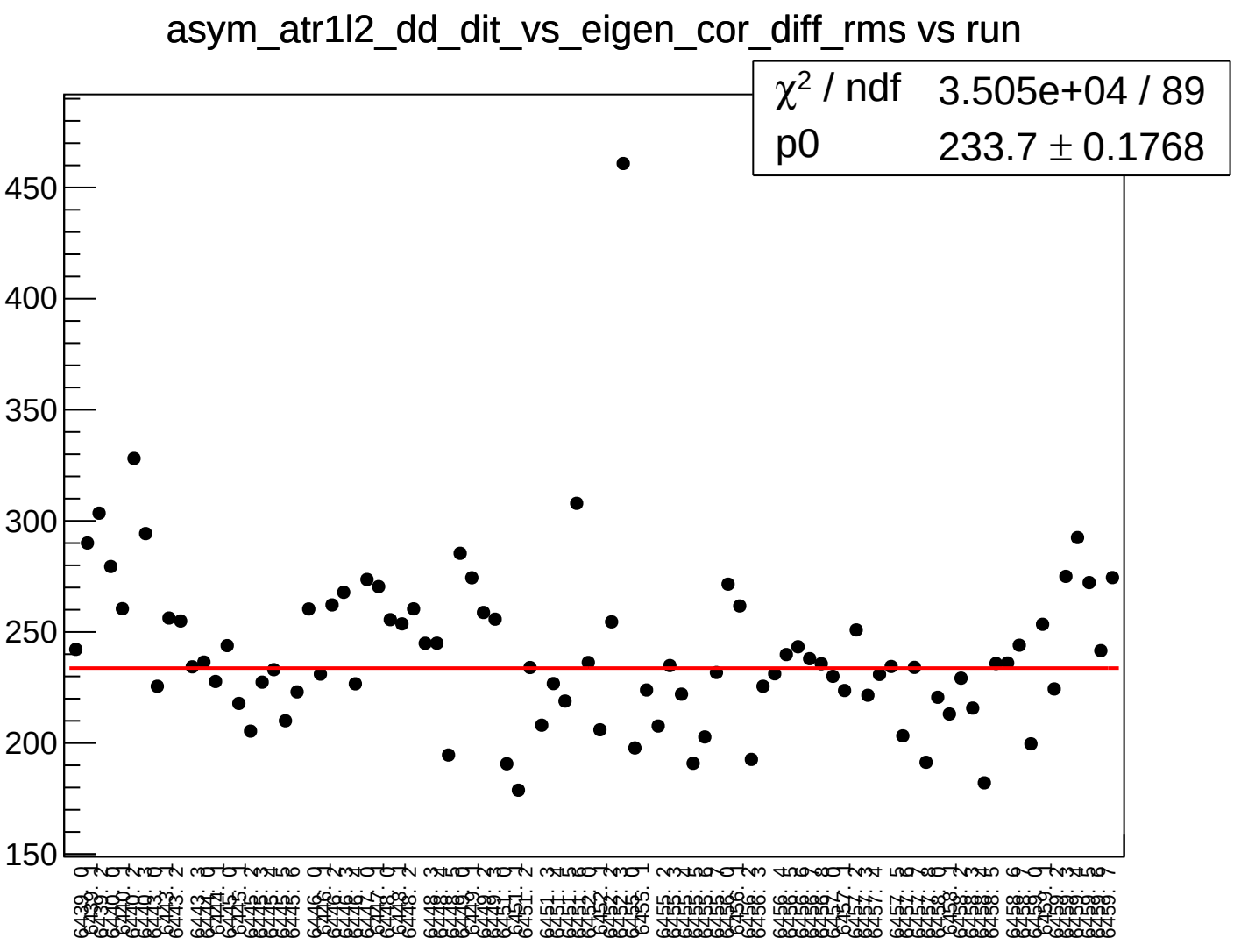

asym_atr1l2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 83.93 / 89
p0 0.1671± 0.2501
pull
Entries 90
Mean −905.6
Std Dev 0

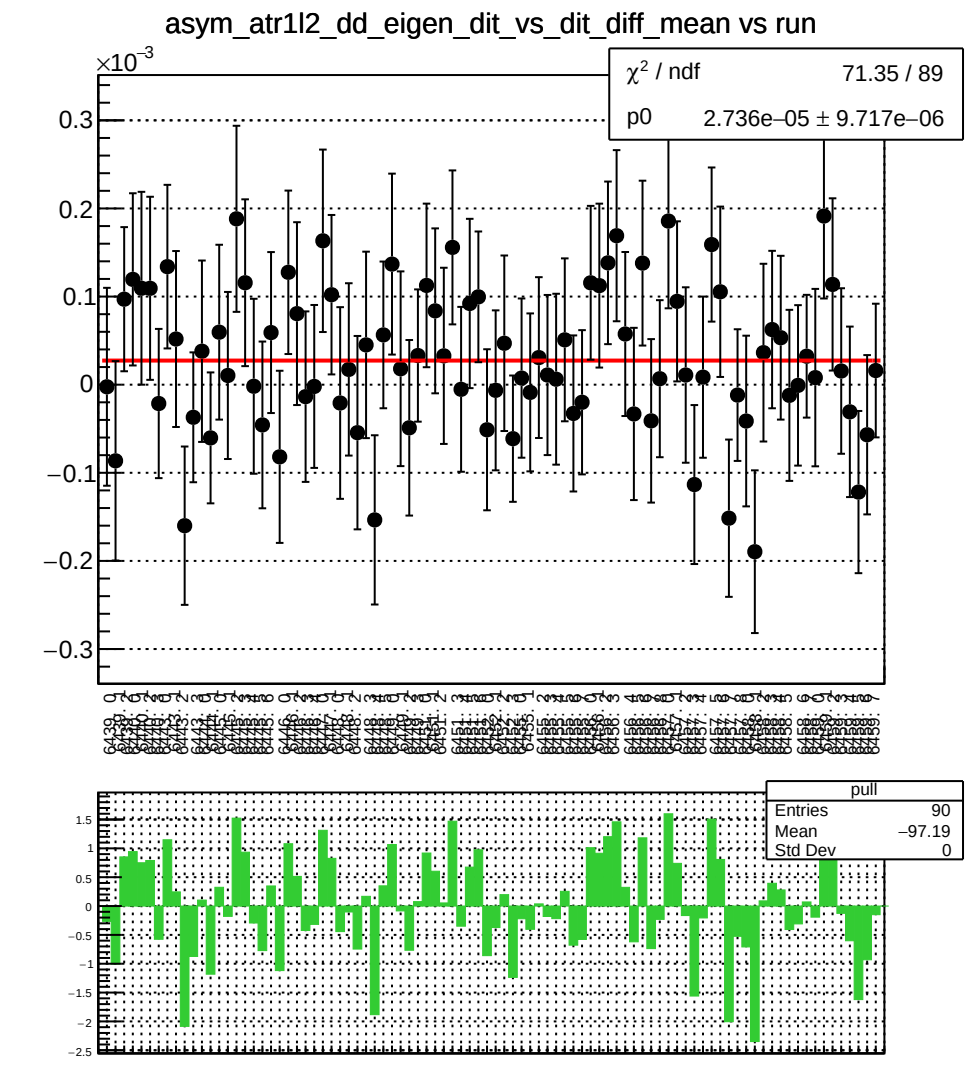

pull1D
Entries 90
Mean −0.004637
Std Dev 0.9657

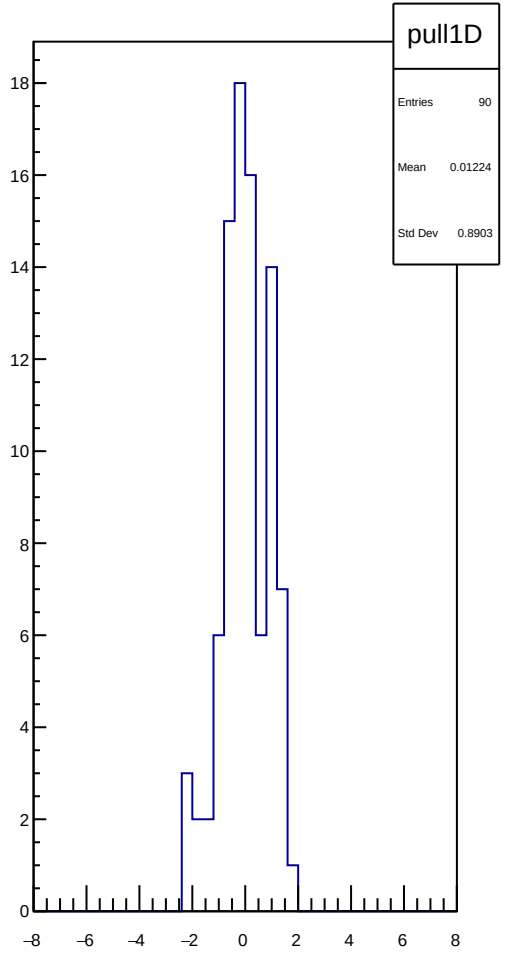

asym_atr1l2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.505e+04 / 89
p0 233.7 ± 0.1768
450
400
350
300
250
200
150

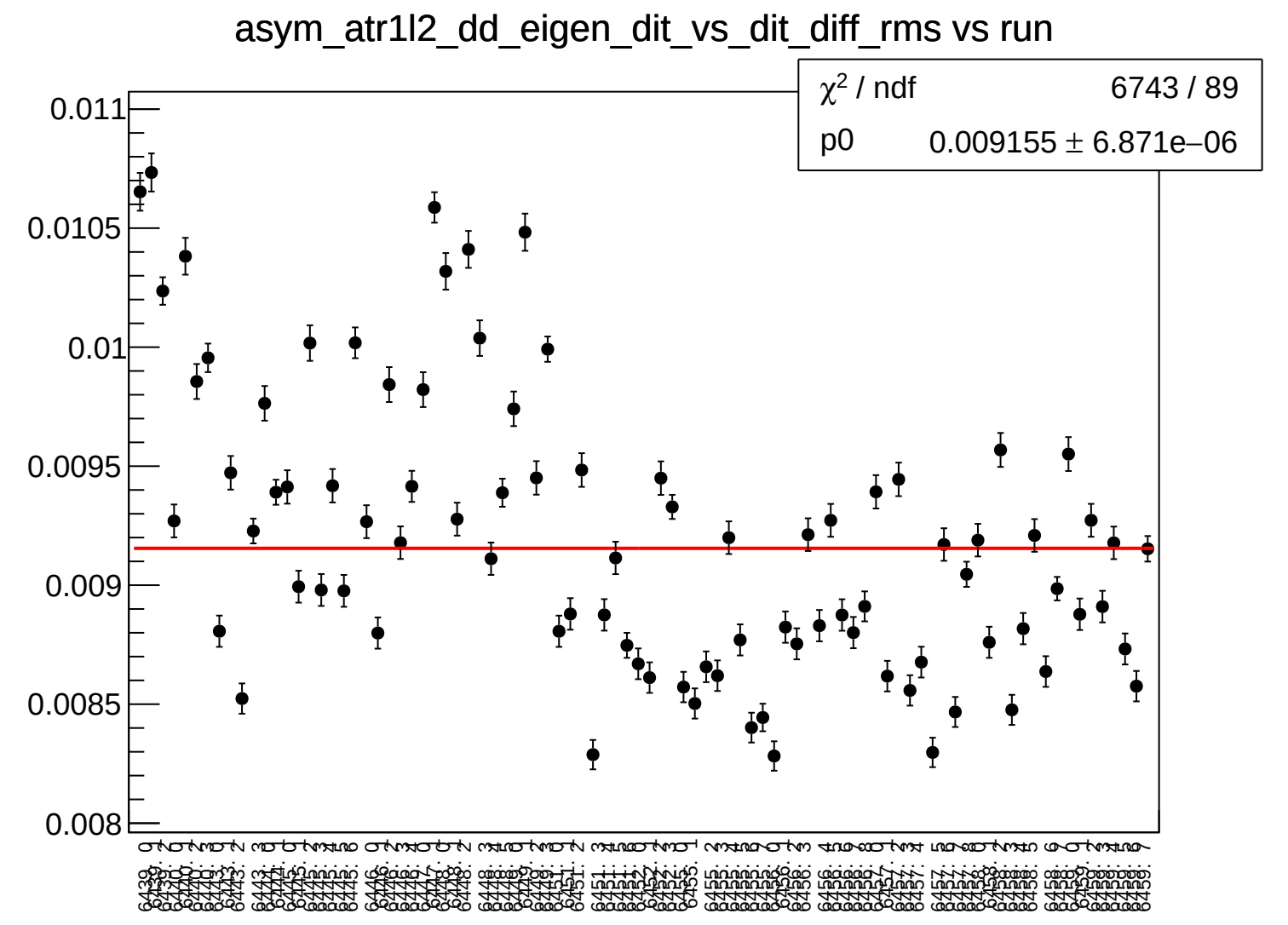

asym_atr1l2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.93 / 89
p0 0.1671± 0.2501
pull
Entries 90
Mean −905.6
Std Dev 0

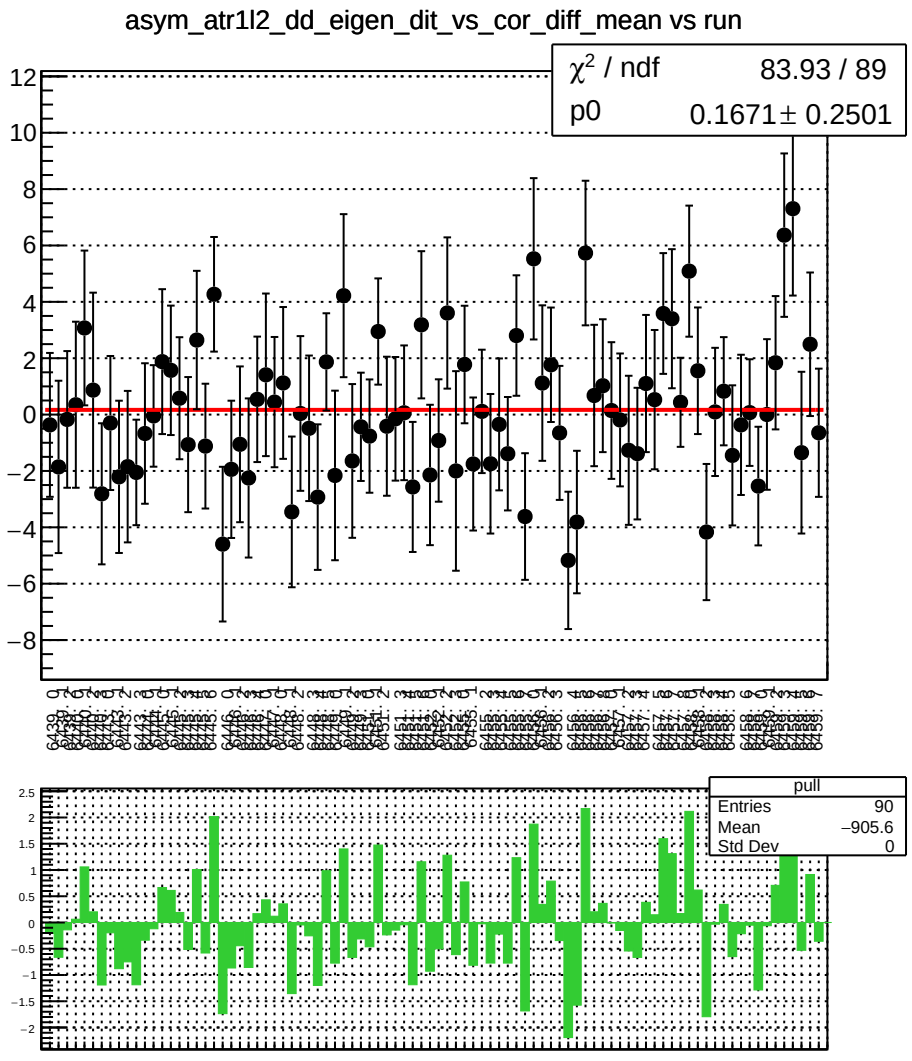

pull1D
Entries 90
Mean −0.004637
Std Dev 0.9657

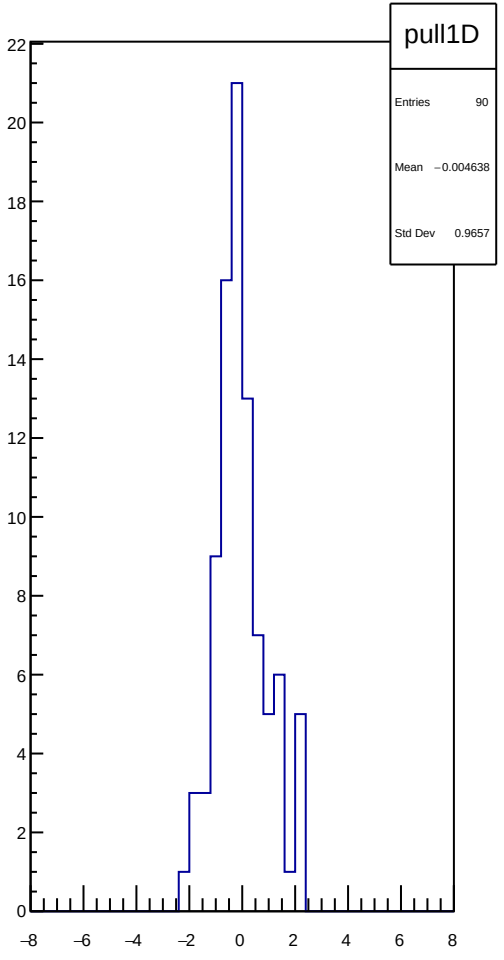

asym_atr1l2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.505e+04 / 89
p0 233.7 ± 0.1768
450
400
350
300
250
200
150

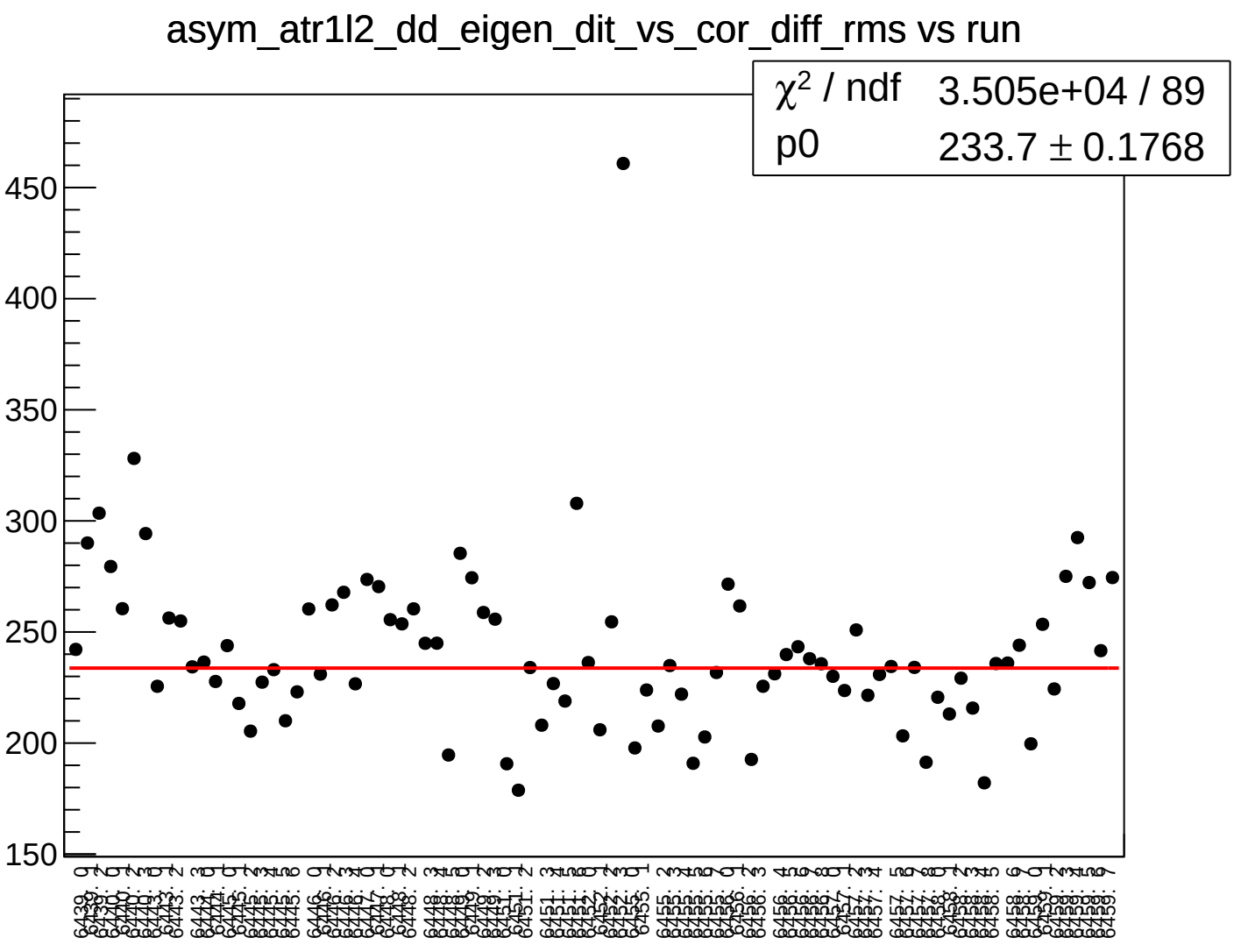

asym_atr1l2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 71.35 / 89
p0 2.736e−05 ± 9.717e−06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 90
Mean −97.19
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

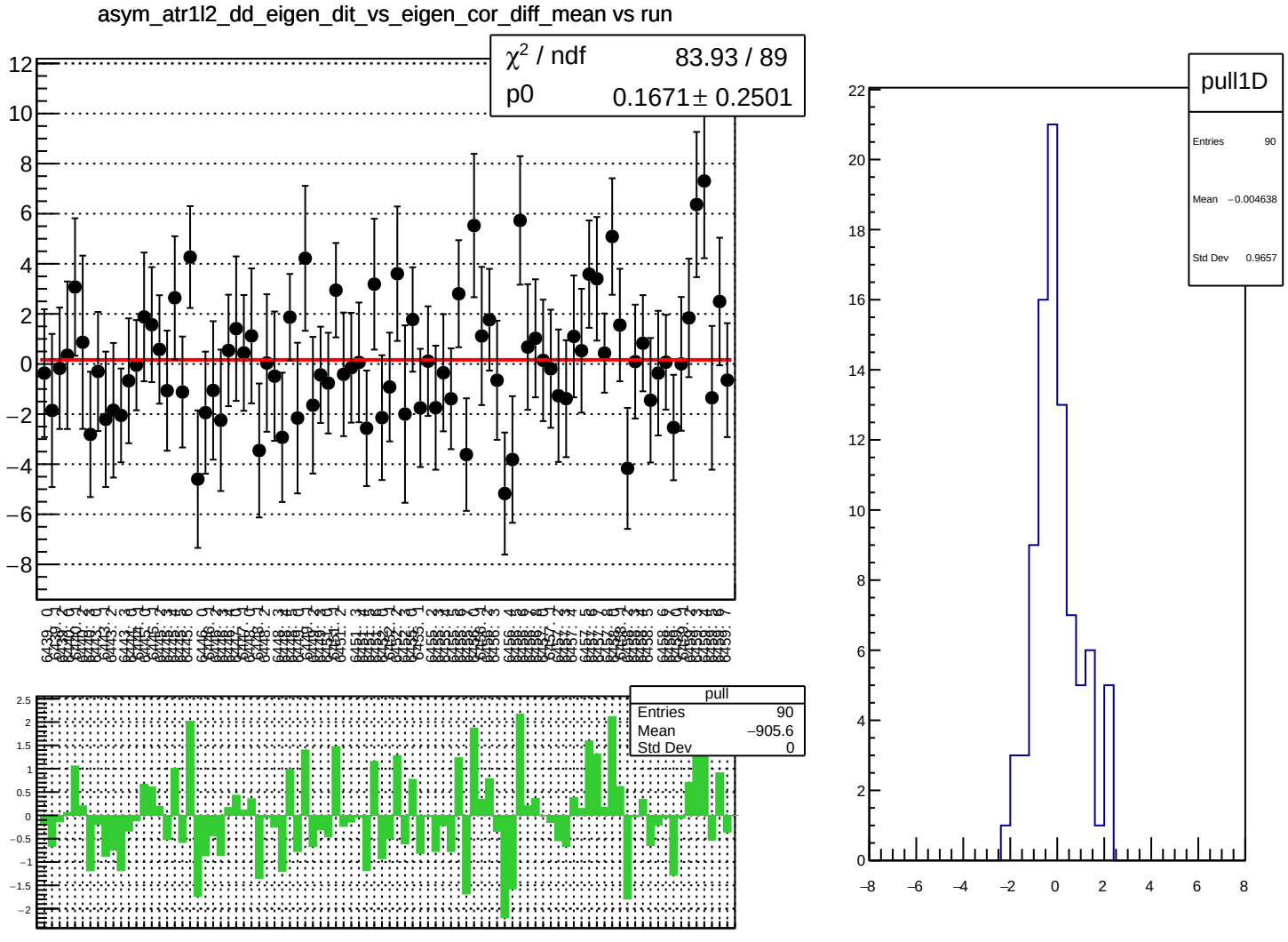

pull1D
Entries 90
Mean 0.01224
Std Dev 0.8903
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

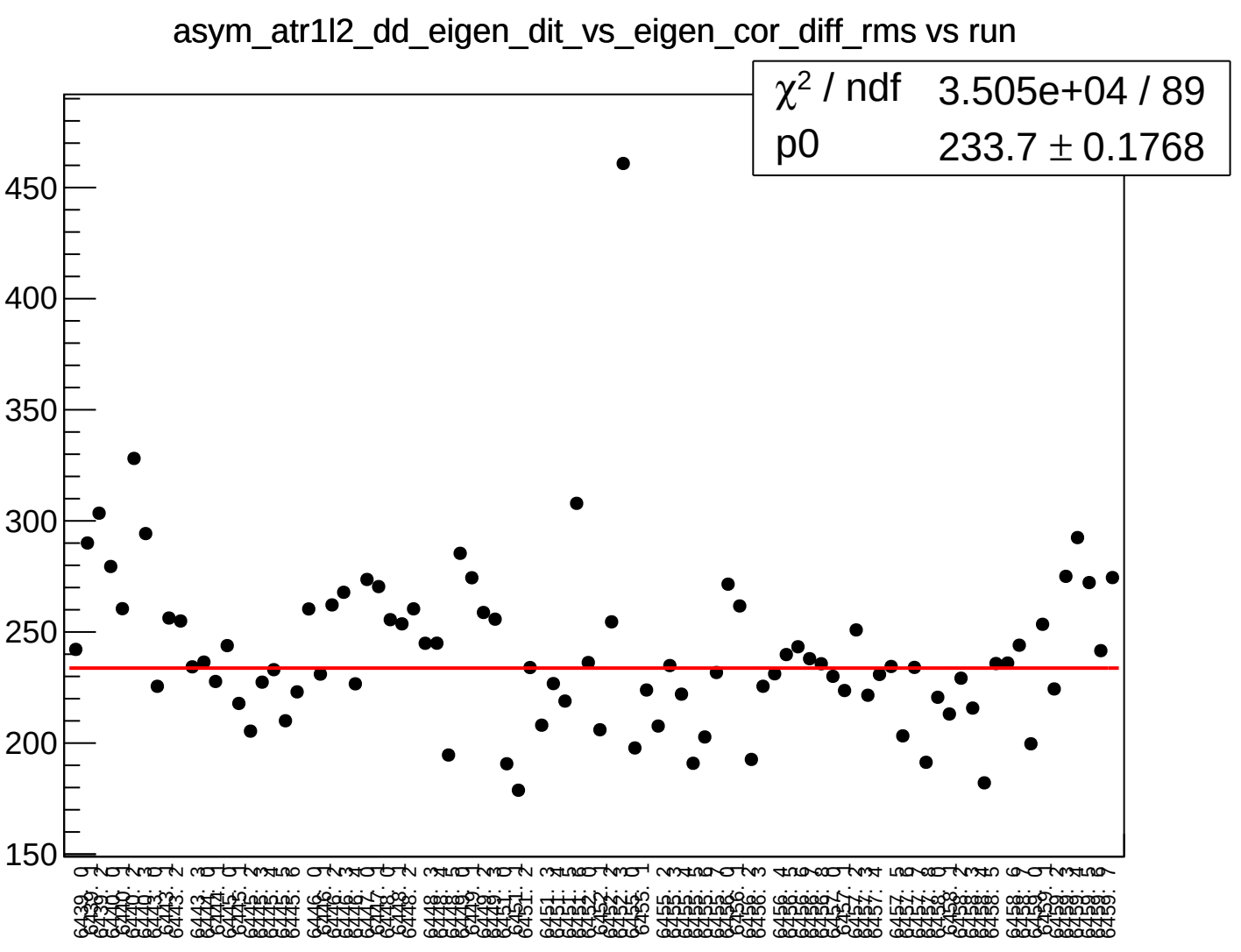

asym_atr1l2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6743 / 89
p0 0.009155 ± 6.871e−06
0.011
0.0105
0.01
0.0095
0.009
0.0085
0.008

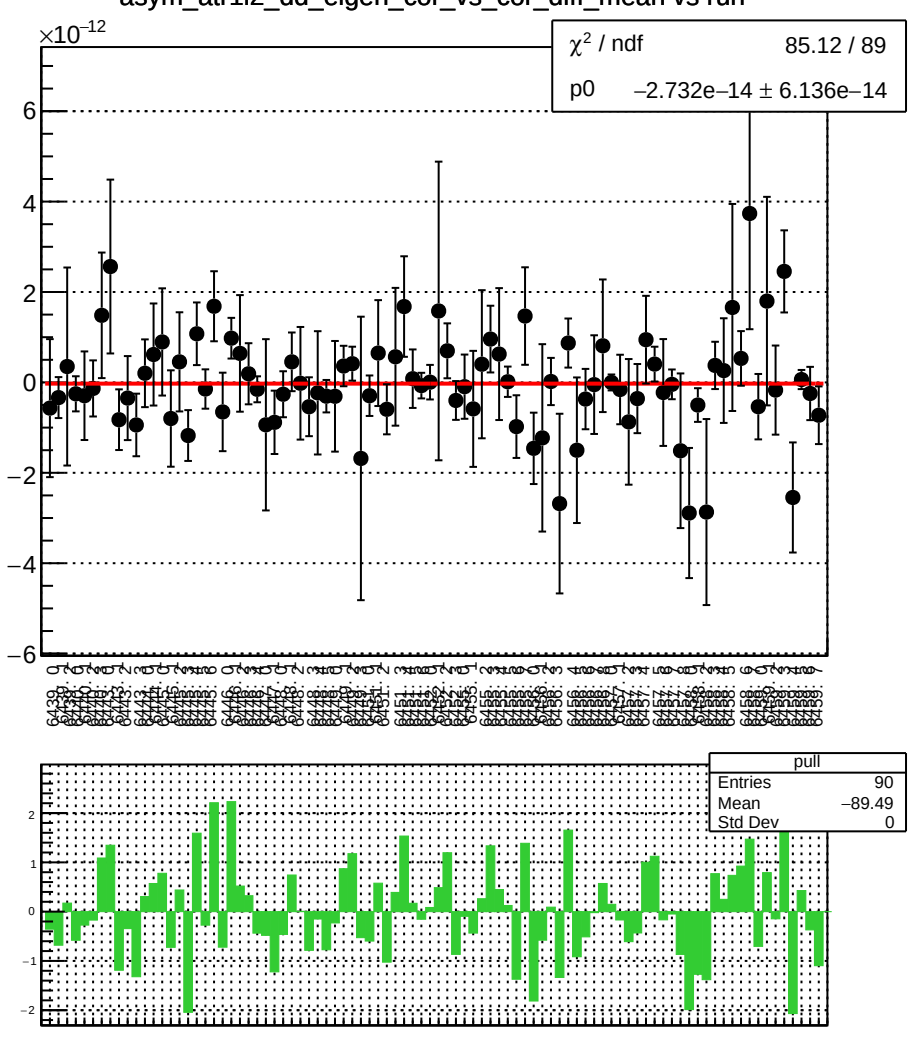

asym_atr1l2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.93 / 89
p0 0.1671± 0.2501
pull
Entries 90
Mean −905.6
Std Dev 0

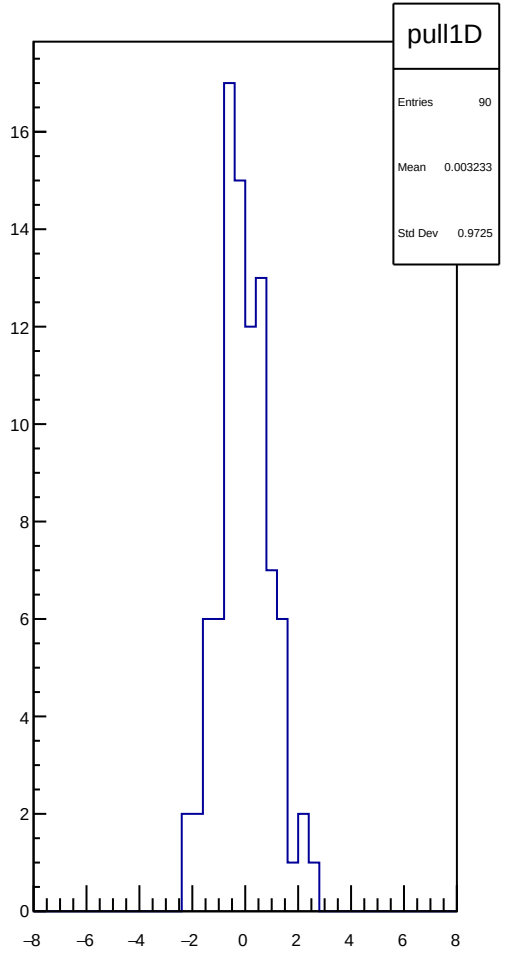

pull1D
Entries 90
Mean −0.004638
Std Dev 0.9657

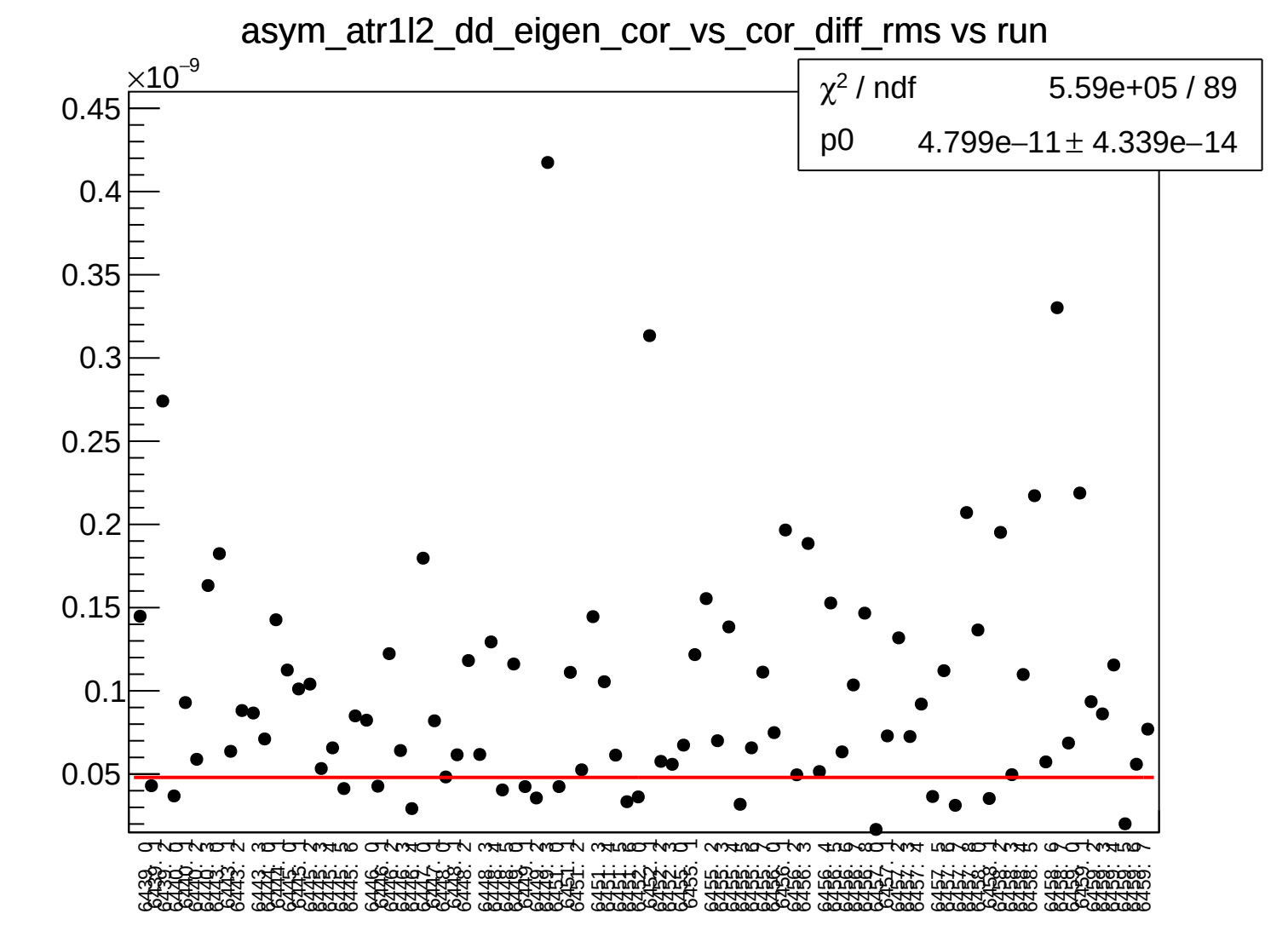

asym_atr1l2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.505e+04 / 89
p0 233.7 ± 0.1768
450
400
350
300
250
200
150

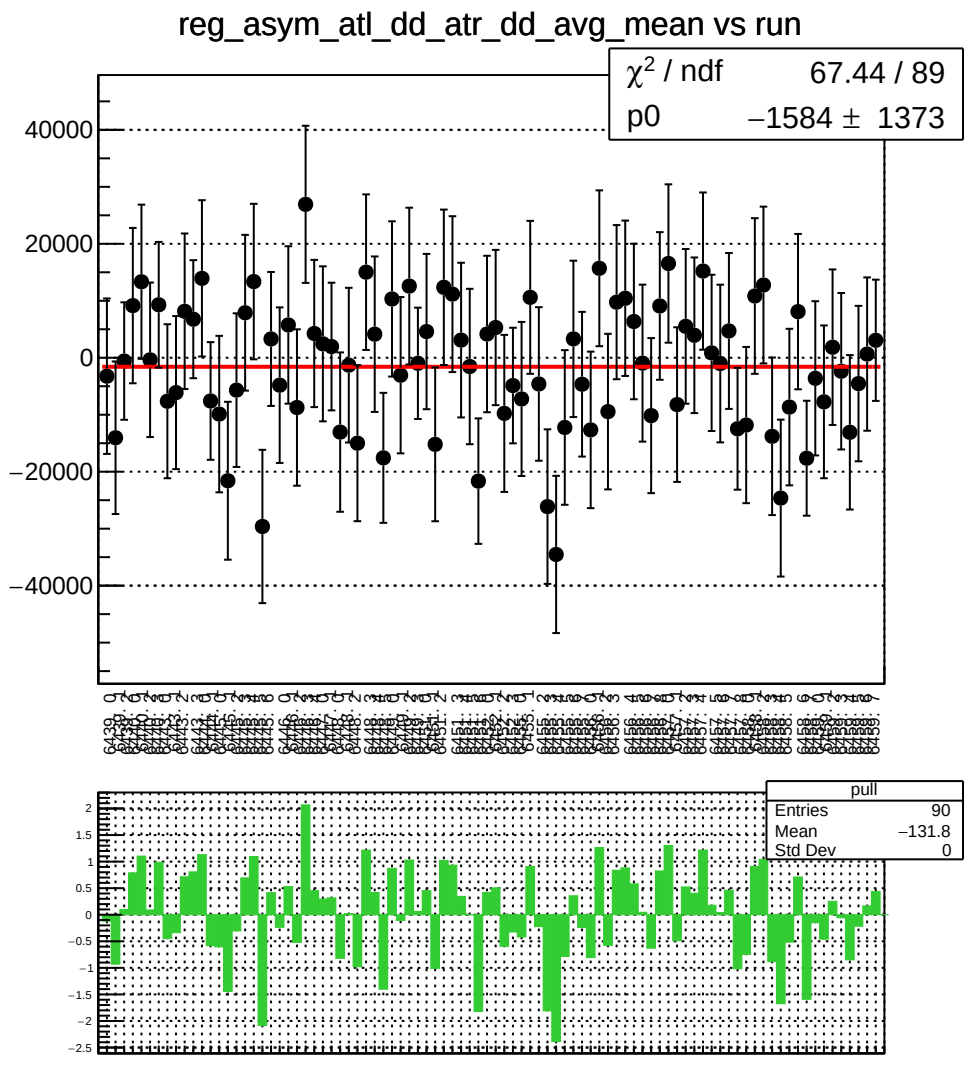

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.93 / 89
p0 0.1671± 0.2501
pull
Entries 90
Mean −905.6
Std Dev 0
pull1D
Entries 90
Mean −0.004638
Std Dev 0.9657

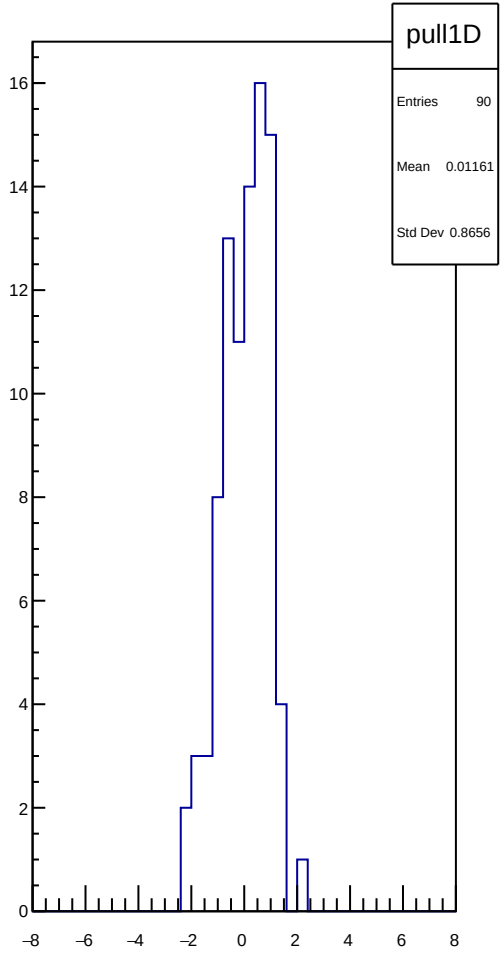

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.505e+04 / 89
p0 233.7 ± 0.1768
450
400
350
300
250
200
150

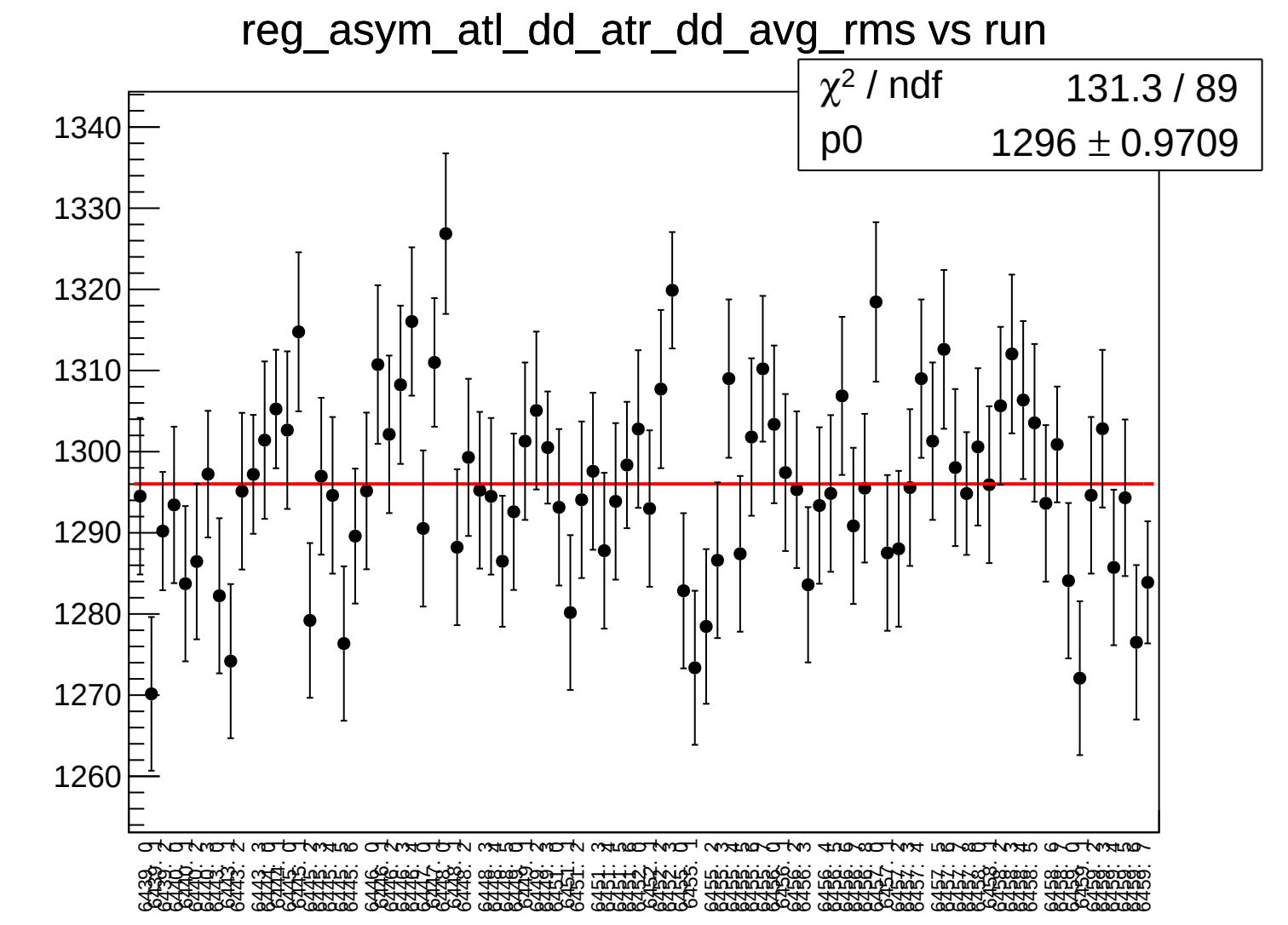

asym_atr1l2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.12 / 89
p0 −2.732e−14 ± 6.136e−14
pull
Entries 90
Mean −89.49
Std Dev 0

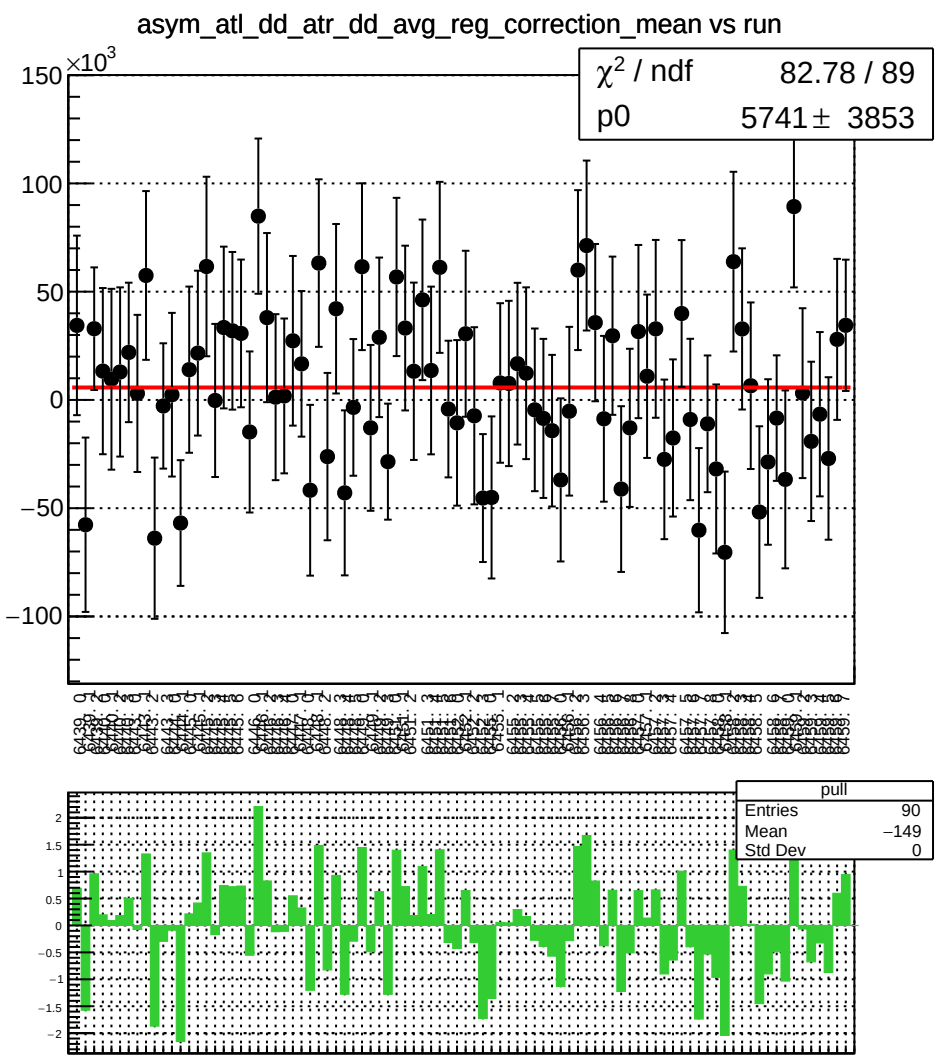

pull1D
Entries 90
Mean 0.003233
Std Dev 0.9725

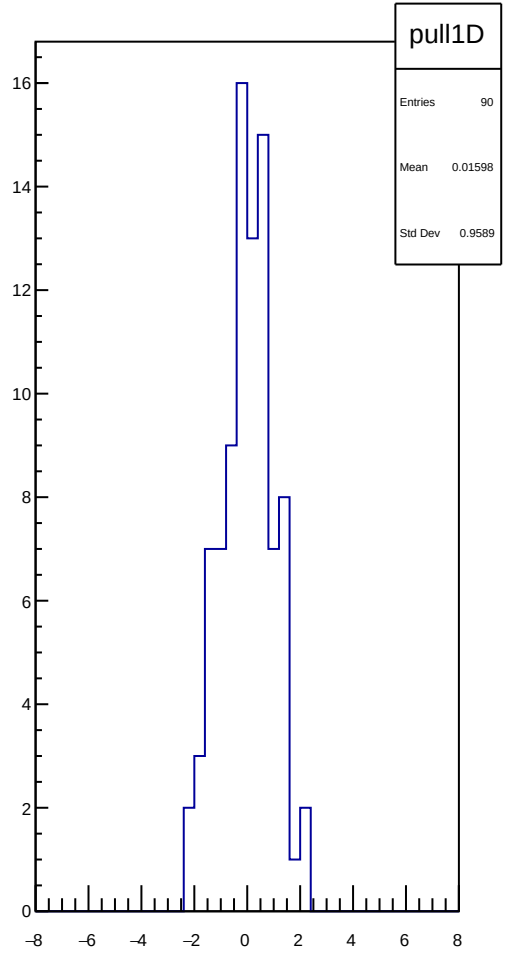

asym_atr1l2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.59e+05 / 89
p0 4.799e−11 ± 4.339e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

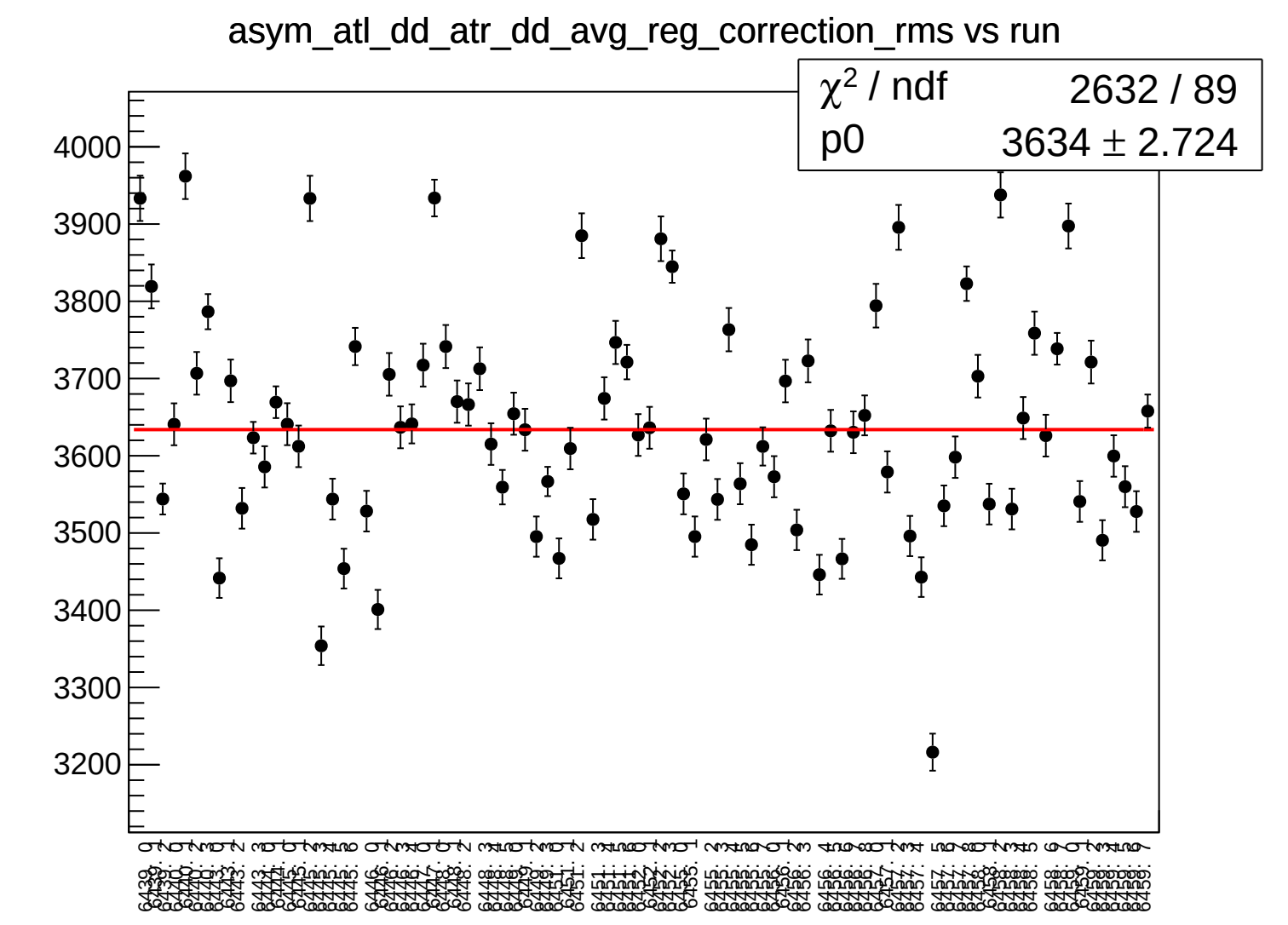

reg_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 67.44 / 89
p0 −1584 ± 1373
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −131.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

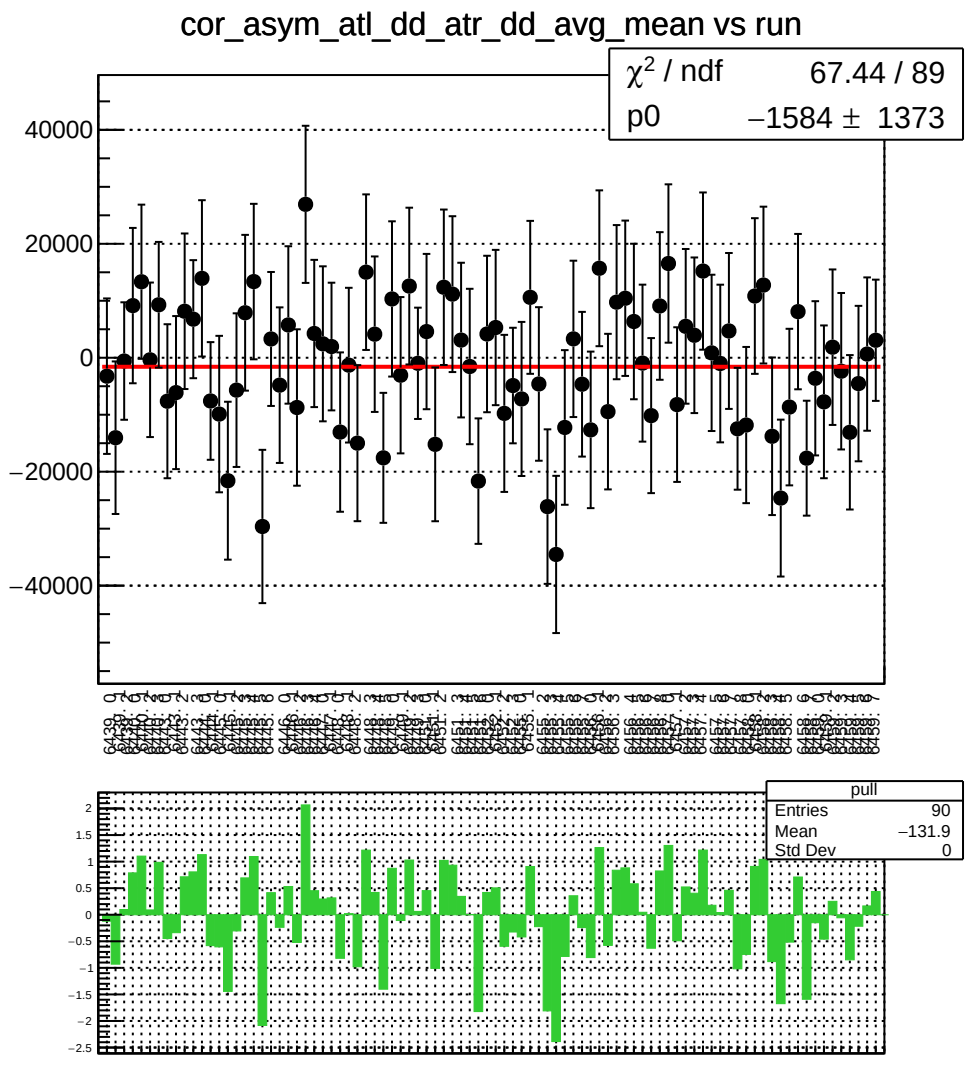

pull1D
Entries 90
Mean 0.01161
Std Dev 0.8656
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

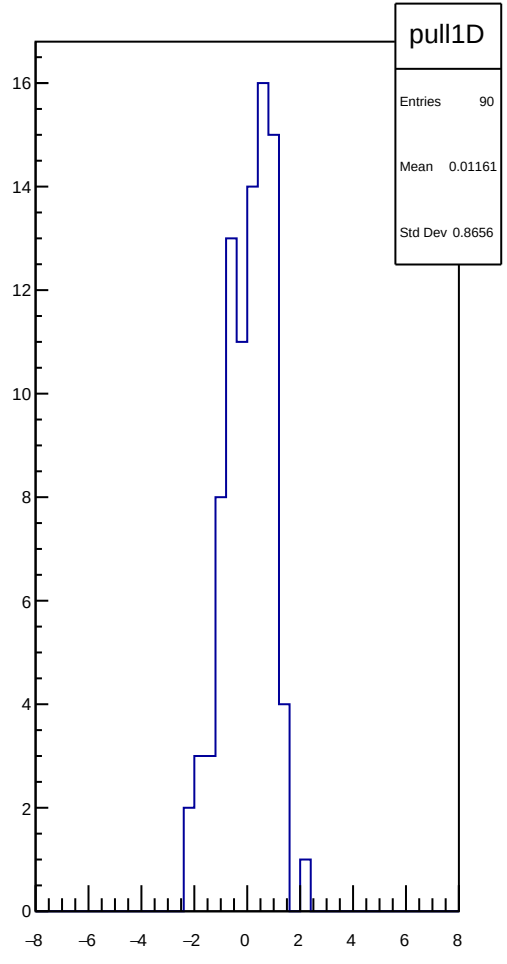

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 131.3 / 89
p0 1296 ± 0.9709
1340
1330
1320
1310
1300
1290
1280
1270
1260

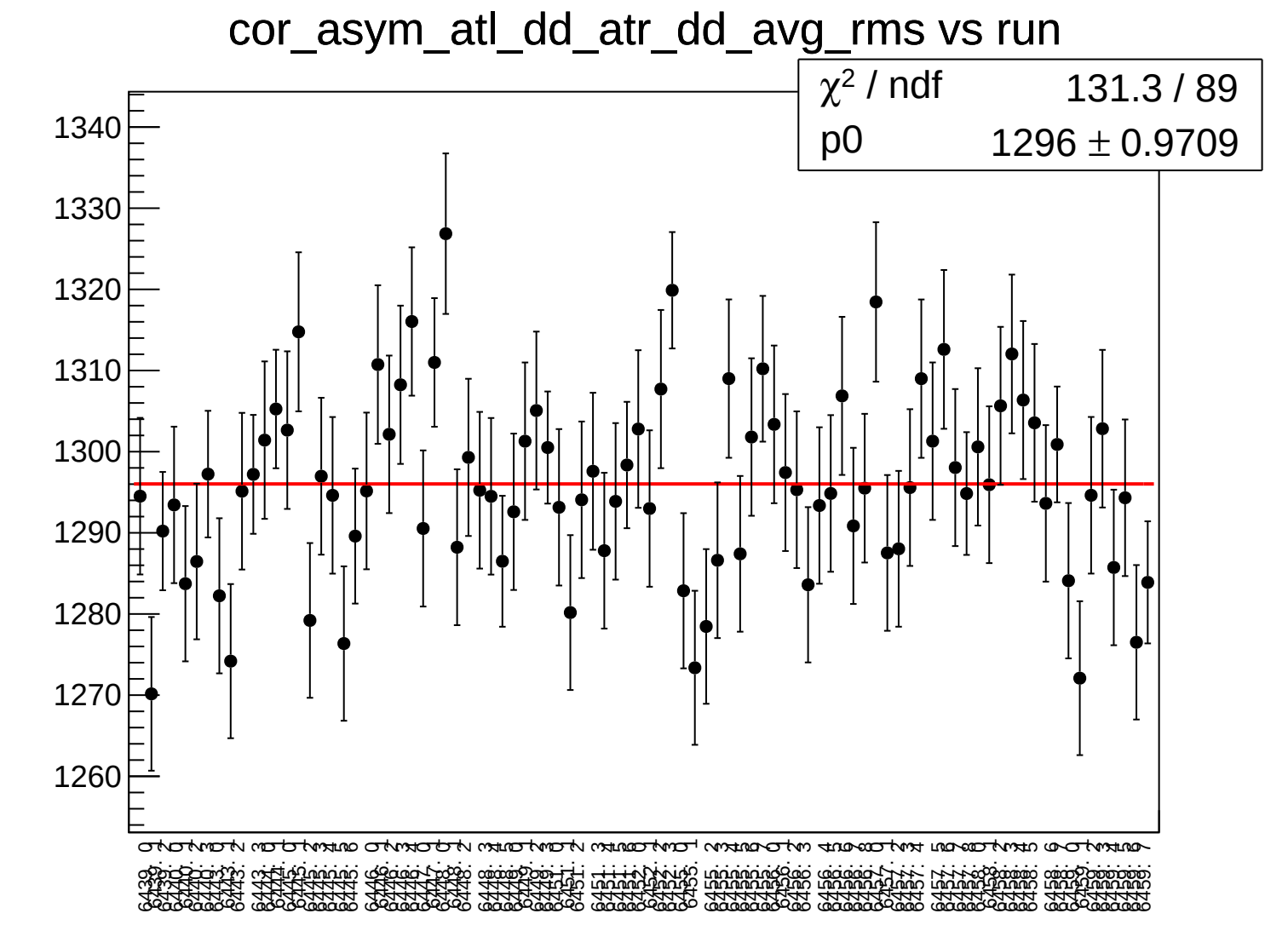

asym_atl_dd_atr_dd_avg_reg_correction_mean vs run
χ² / ndf 82.78 / 89
p0 5741 ± 3853
×10³
150
100
50
0
−50
−100
pull
Entries 90
Mean −149
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

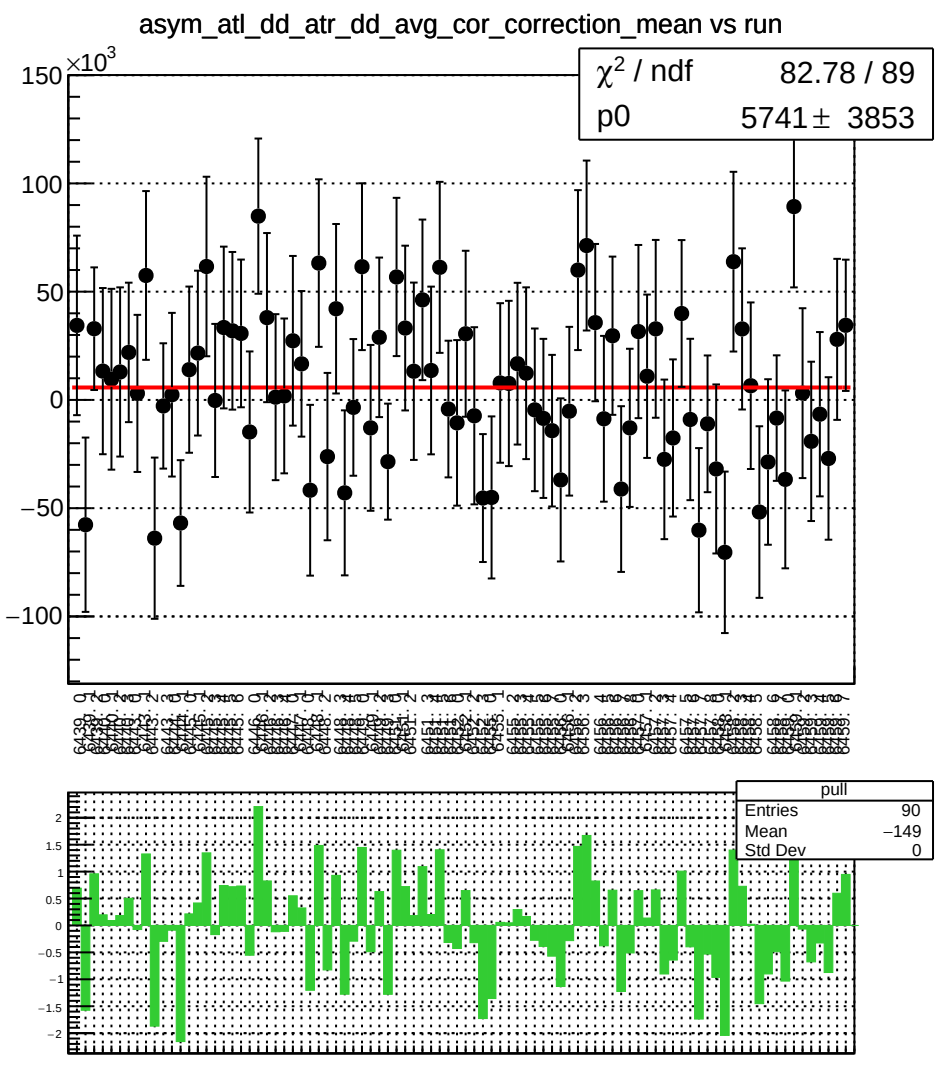

pull1D
Entries 90
Mean 0.01598
Std Dev 0.9589
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

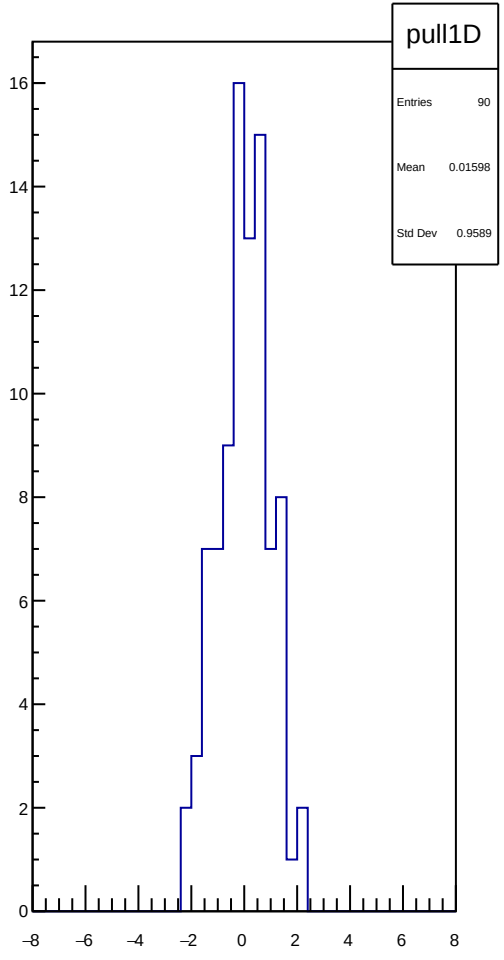

asym_atl_dd_atr_dd_avg_reg_correction_rms vs run
χ² / ndf 2632 / 89
p0 3634 ± 2.724
4000
3900
3800
3700
3600
3500
3400
3300
3200

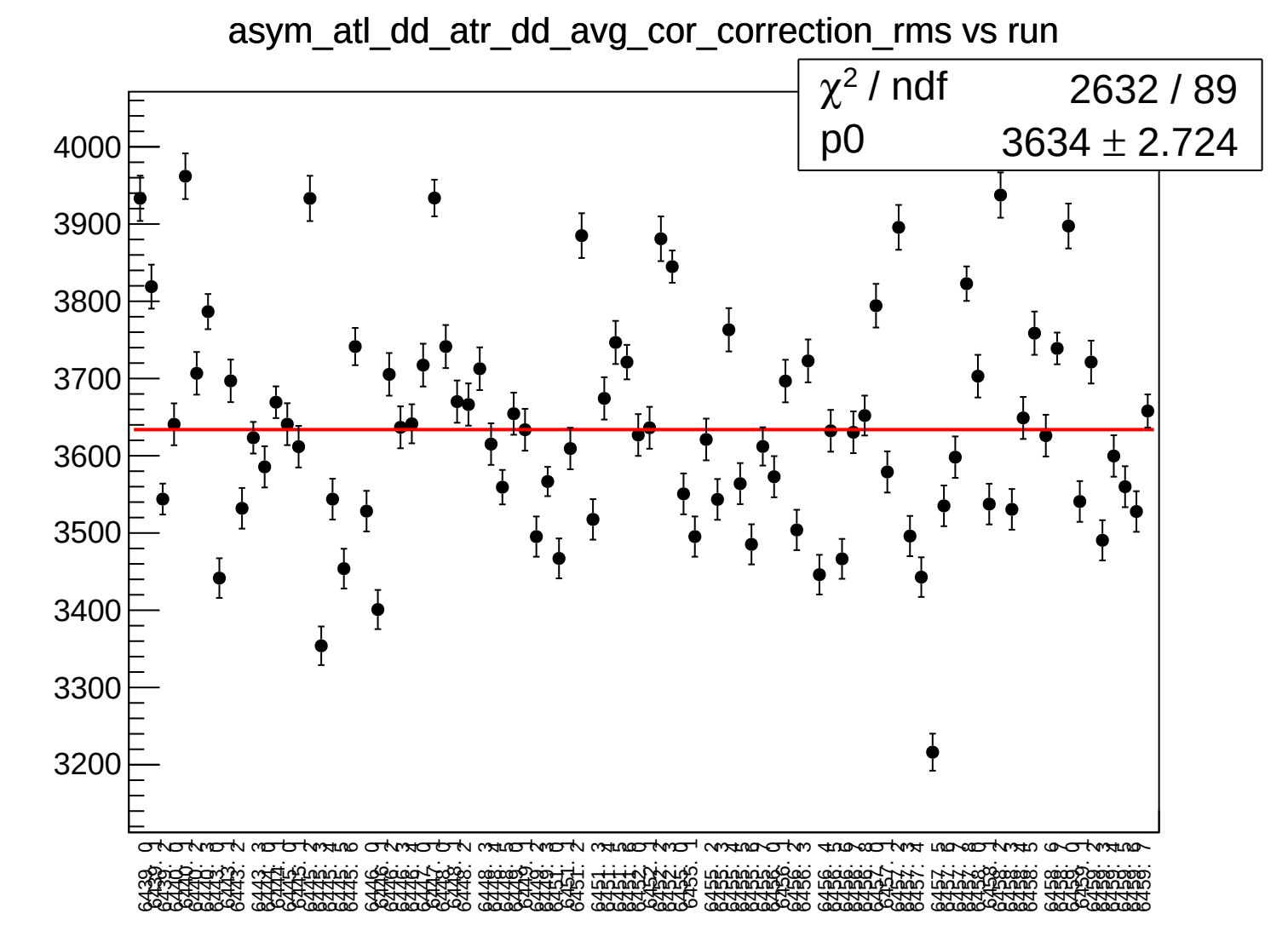

cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 67.44 / 89
p0 −1584 ± 1373
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −131.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

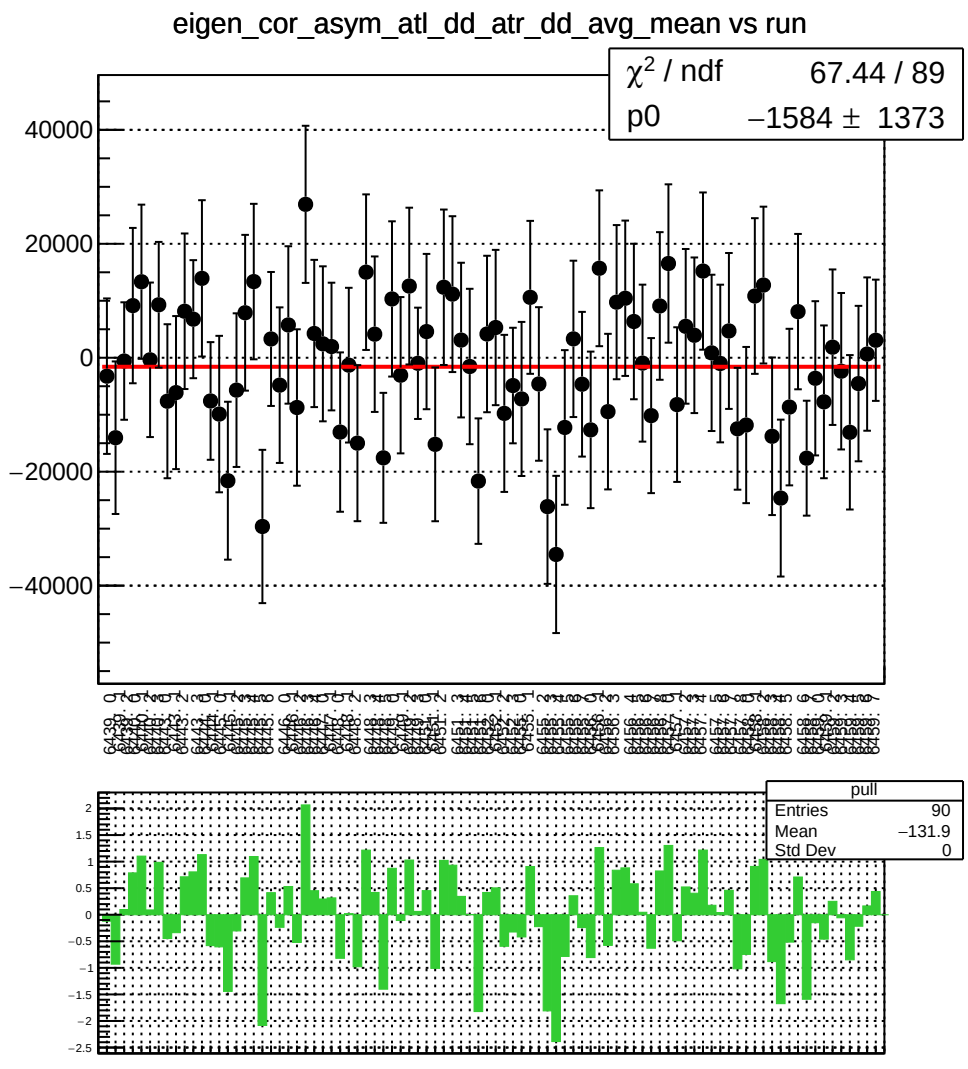

pull1D
Entries 90
Mean 0.01161
Std Dev 0.8656
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

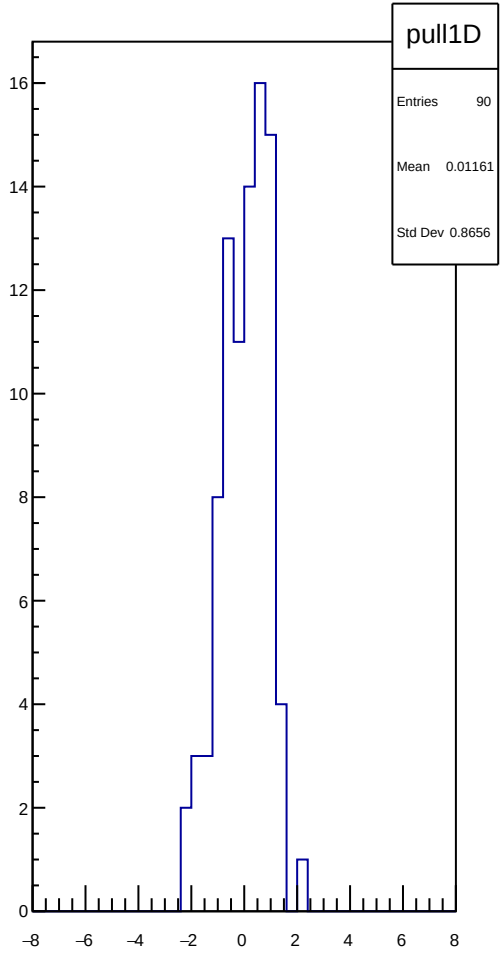

cor_asym_atl_dd_atr_dd_avg_rms vs run
χ^2 / ndf 131.3 / 89
p0 1296 ± 0.9709
1340
1330
1320
1310
1300
1290
1280
1270
1260


asym_atl_dd_atr_dd_avg_cor_correction_mean vs run
χ² / ndf 82.78 / 89
p0 5741 ± 3853
×10³
150
100
50
0
−50
−100
pull
Entries 90
Mean −149
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 90
Mean 0.01598
Std Dev 0.9589
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_dd_atr_dd_avg_cor_correction_rms vs run
χ² / ndf 2632 / 89
p0 3634 ± 2.724
4000
3900
3800
3700
3600
3500
3400
3300
3200


eigen_cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 67.44 / 89
p0 −1584 ± 1373
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −131.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 90
Mean 0.01161
Std Dev 0.8656
16
14
12
10
8
6
4
2
0
−8
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−4
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0
2
4
6
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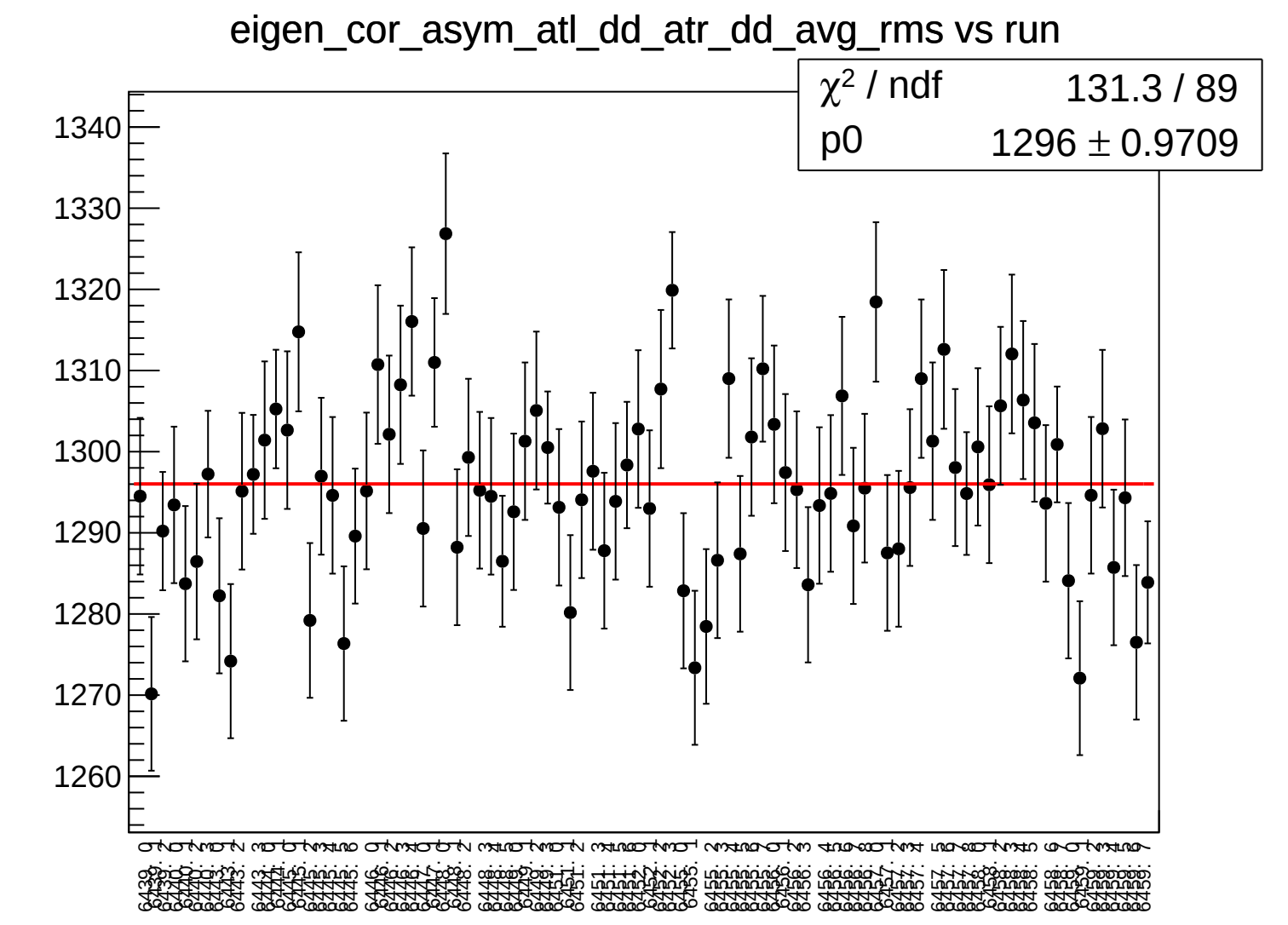
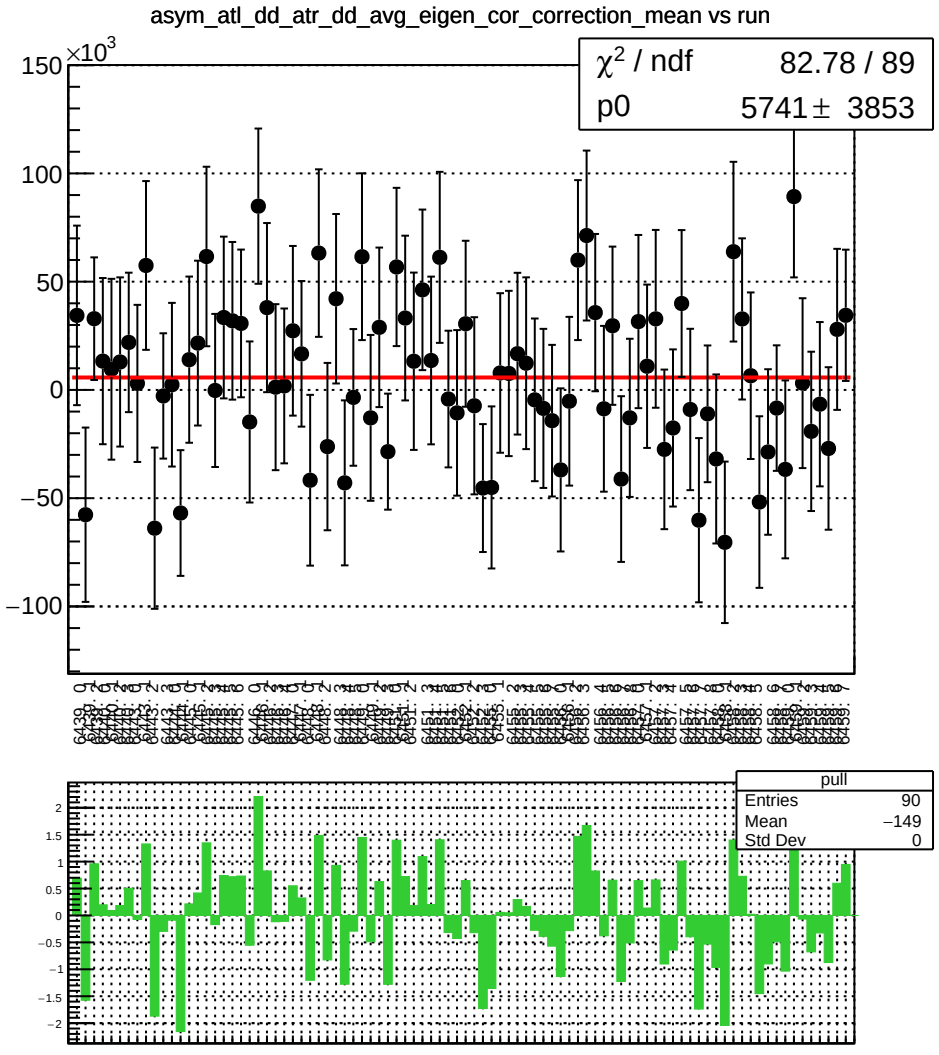
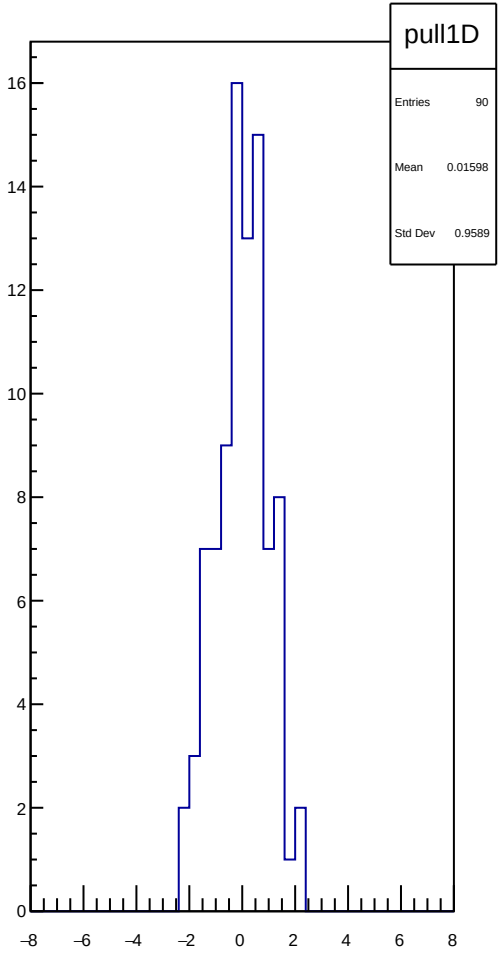

eigen_cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 131.3 / 89
p0 1296 ± 0.9709
1340
1330
1320
1310
1300
1290
1280
1270
1260


asym_atl_dd_atr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 82.78 / 89
p0 5741 ± 3853
×10³
150
100
50
0
−50
−100
pull
Entries 90
Mean −149
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 90
Mean 0.01598
Std Dev 0.9589
16
14
12
10
8
6
4
2
0
−8
−6
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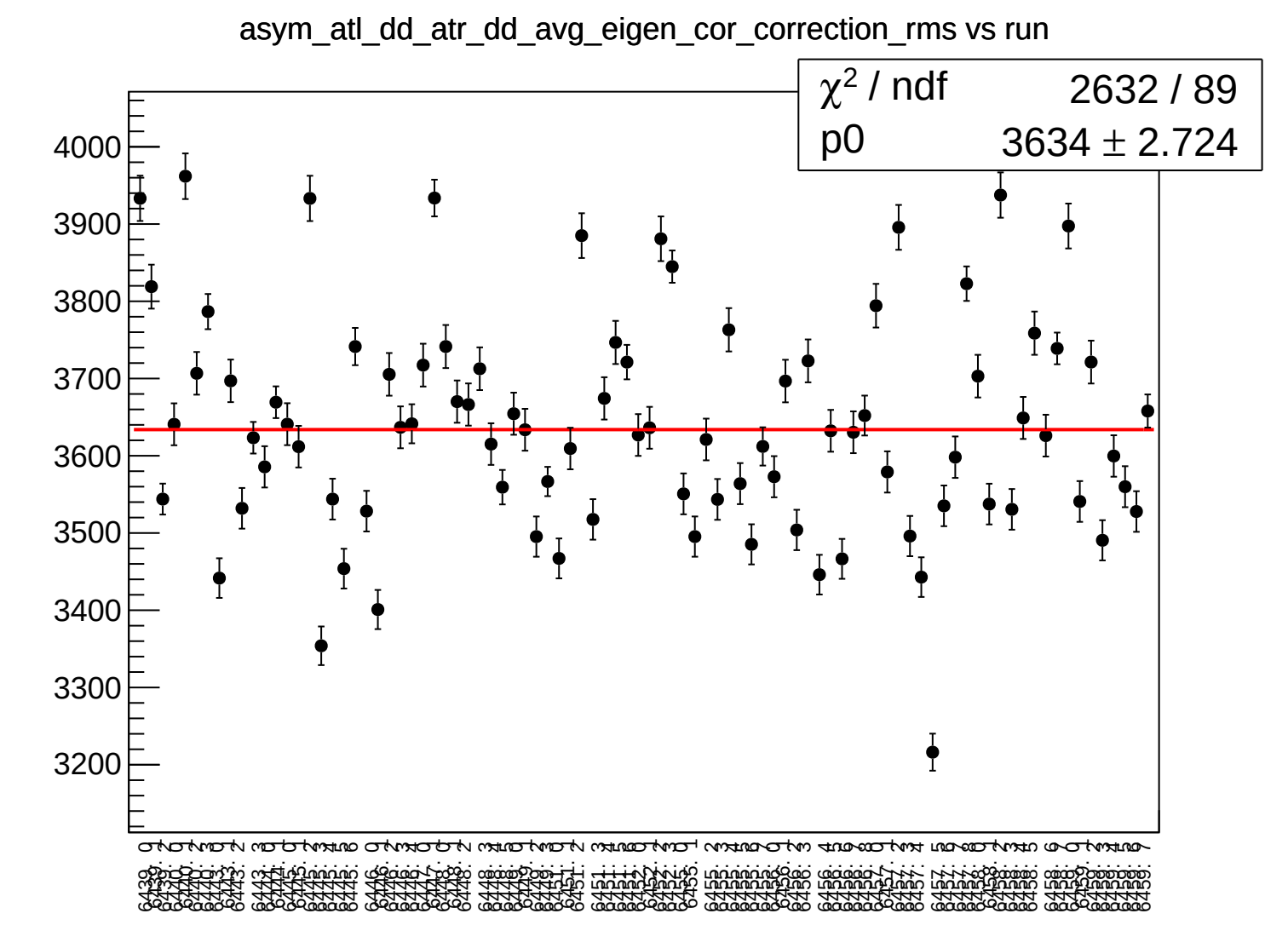
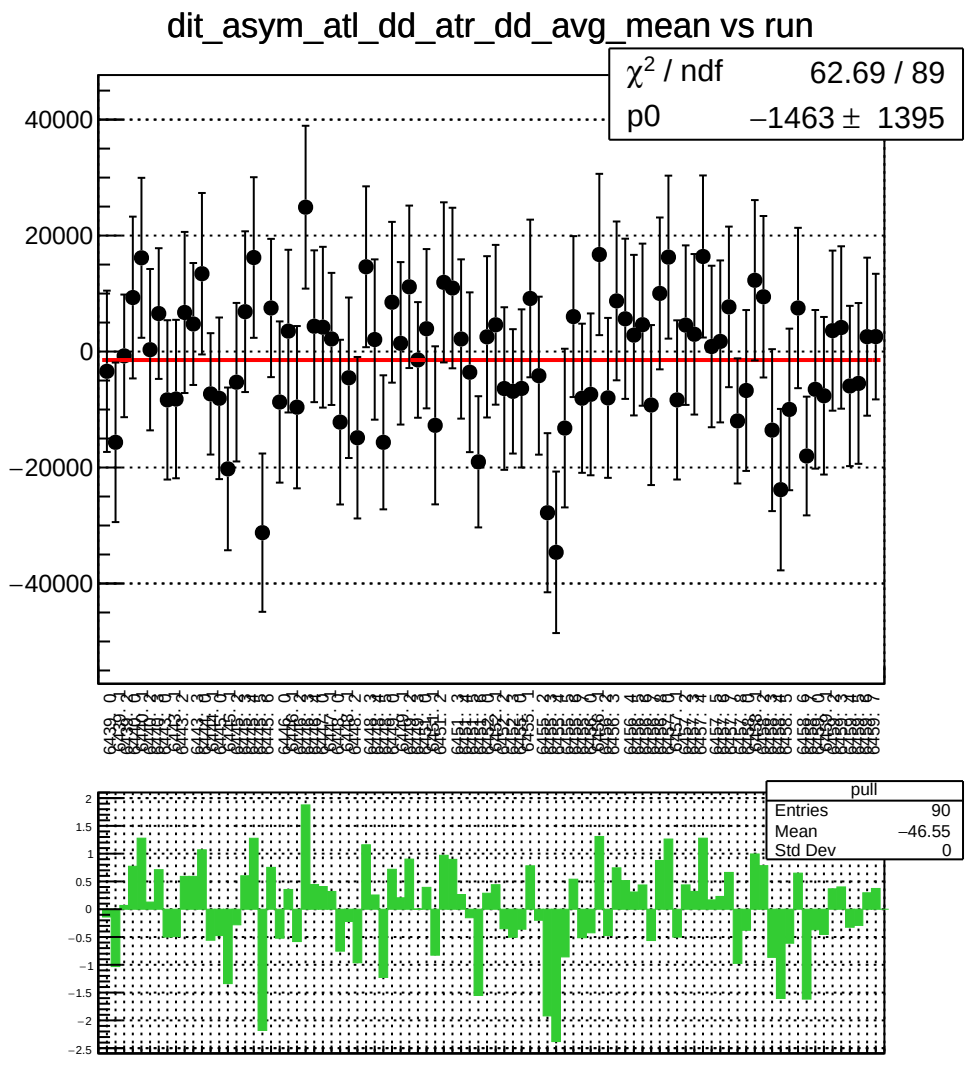
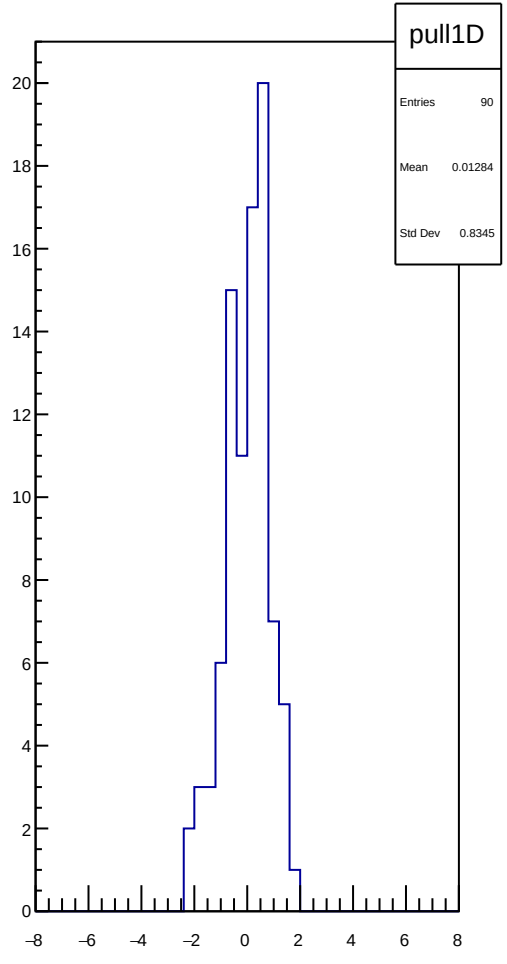
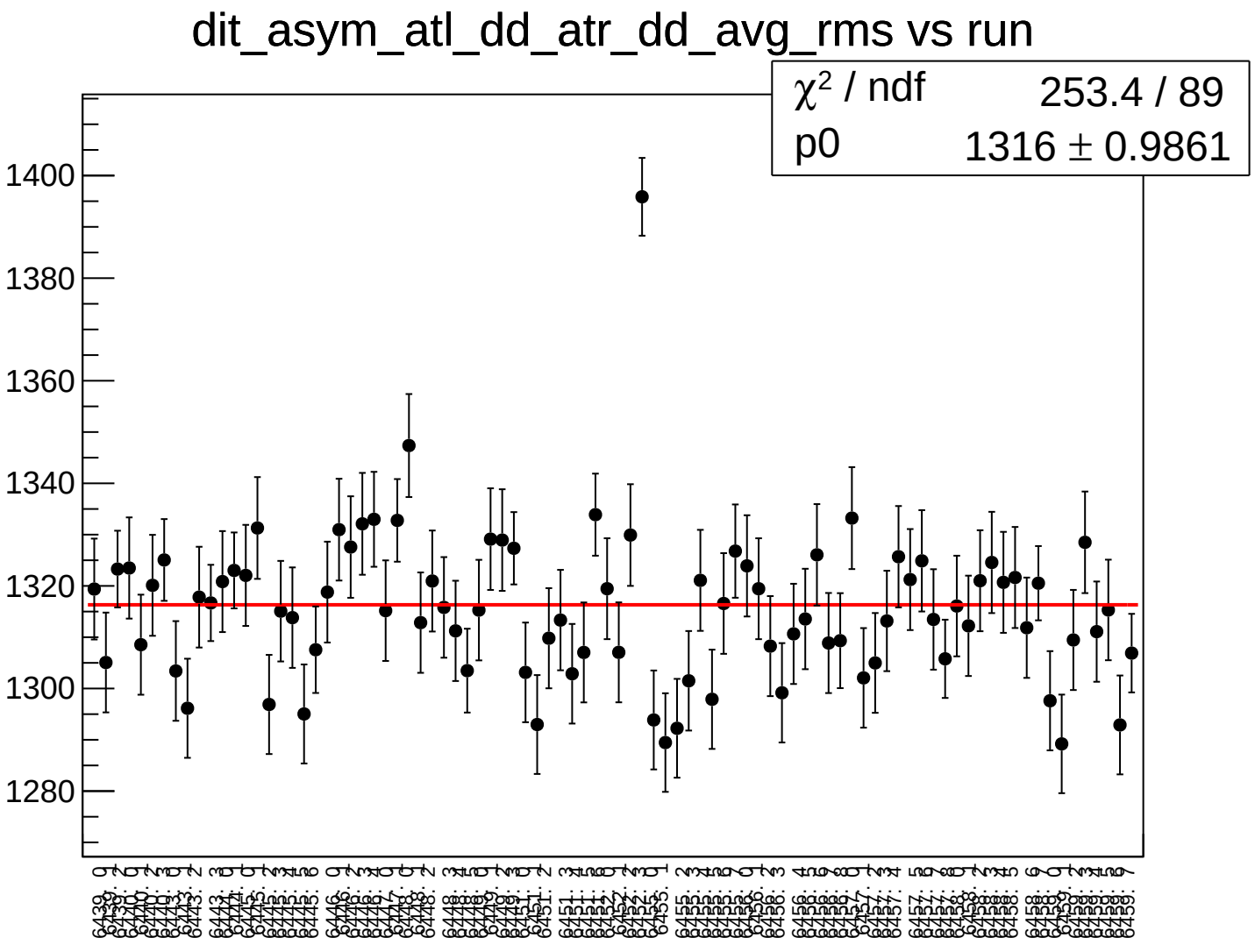
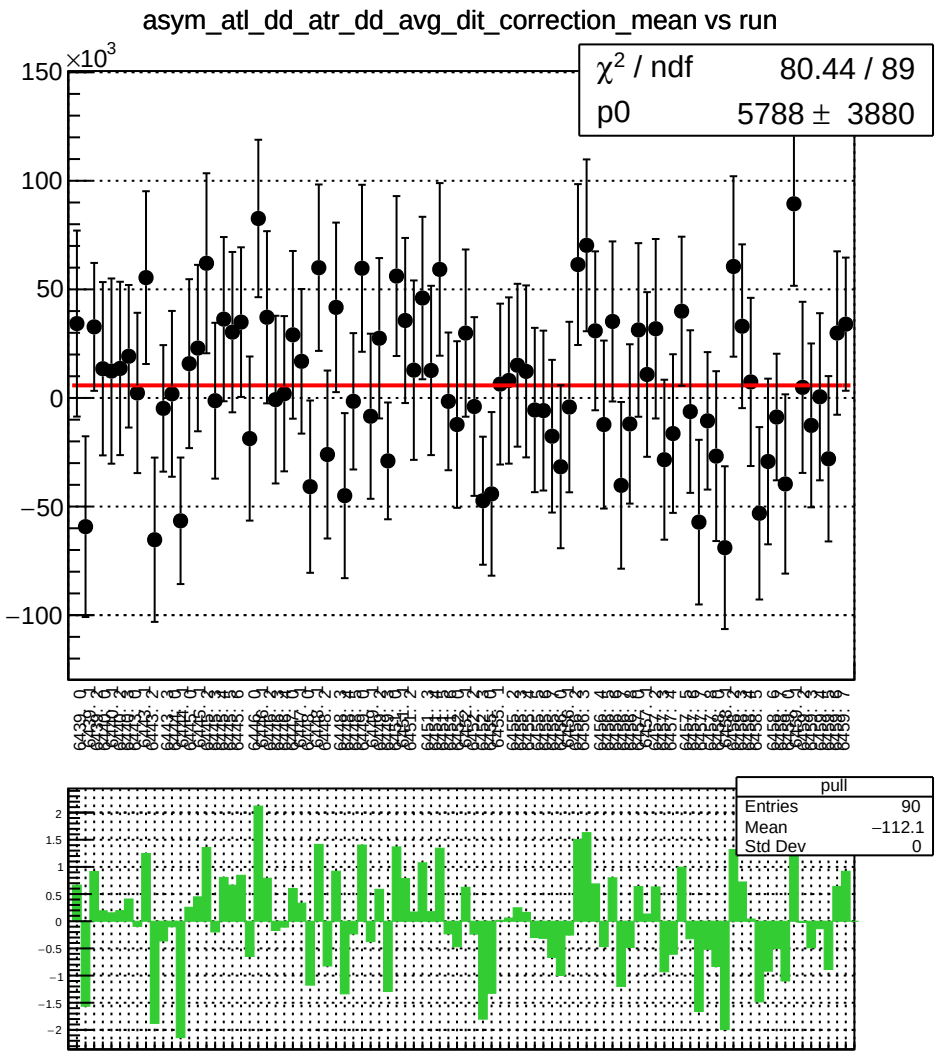
2
4
6
8

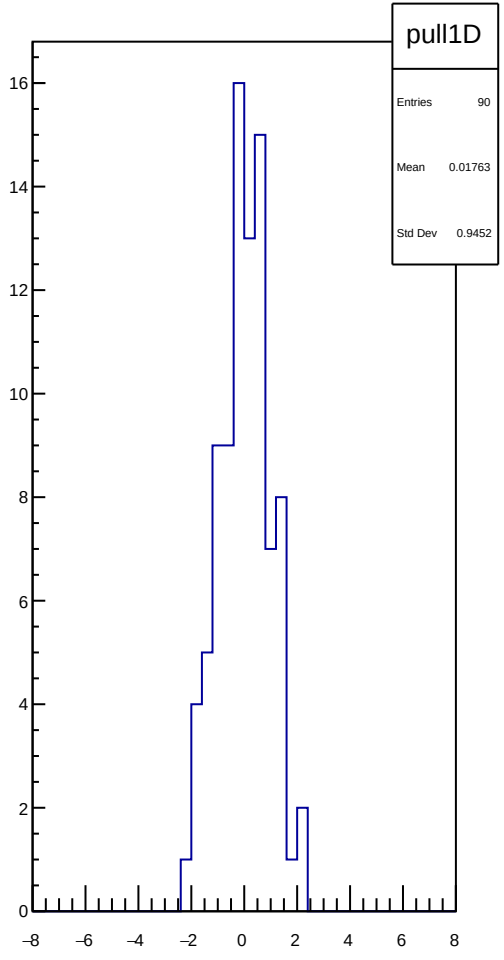

asym_atl_dd_atr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 2632 / 89
p0 3634 ± 2.724
4000
3900
3800
3700
3600
3500
3400
3300
3200

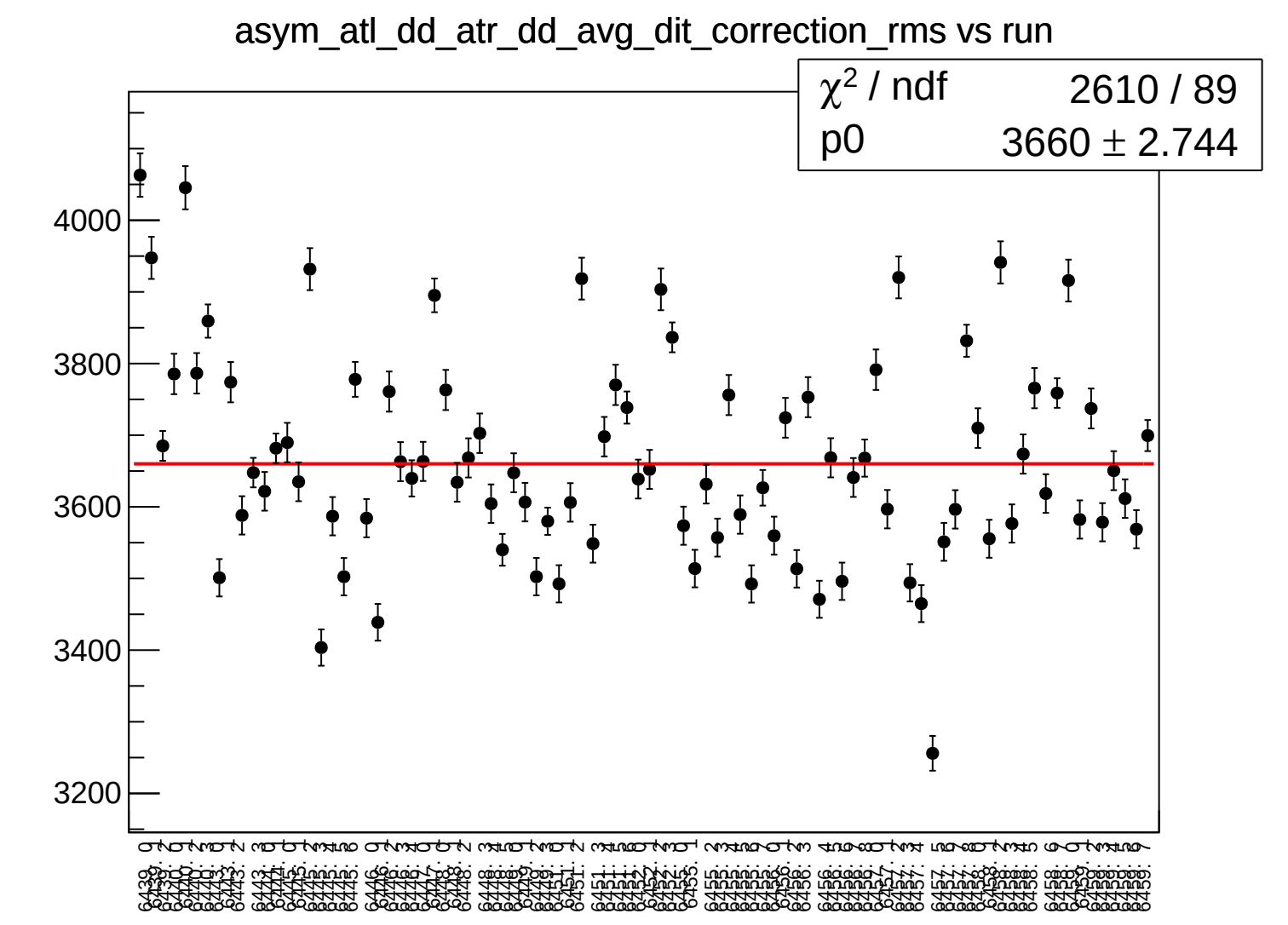

dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 62.69 / 89
p0 −1463 ± 1395
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −46.55
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

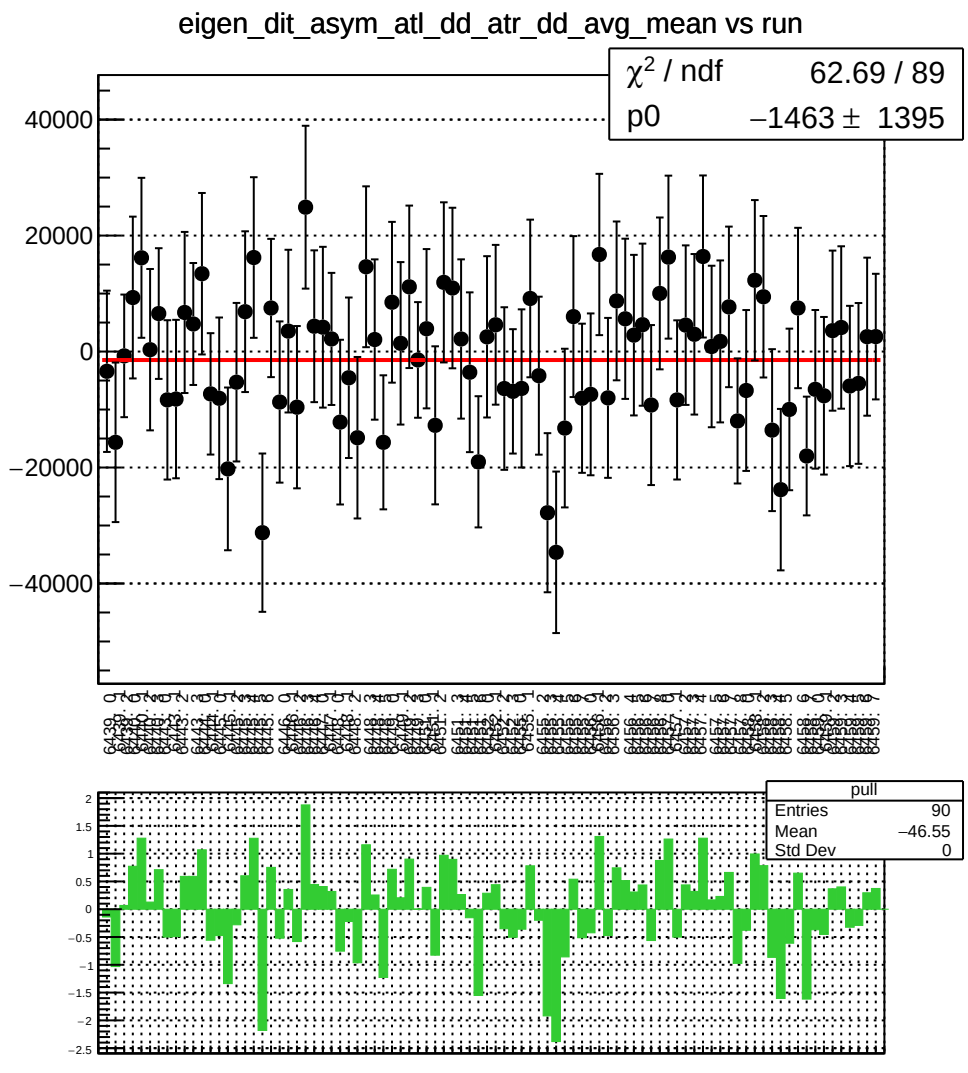

pull1D
Entries 90
Mean 0.01284
Std Dev 0.8345
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

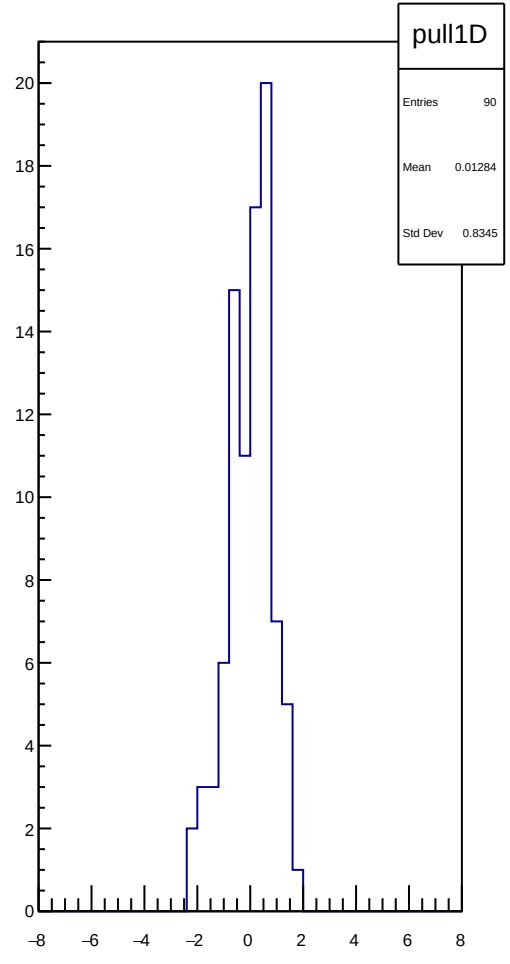

dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 253.4 / 89
p0 1316 ± 0.9861
1400
1380
1360
1340
1320
1300
1280

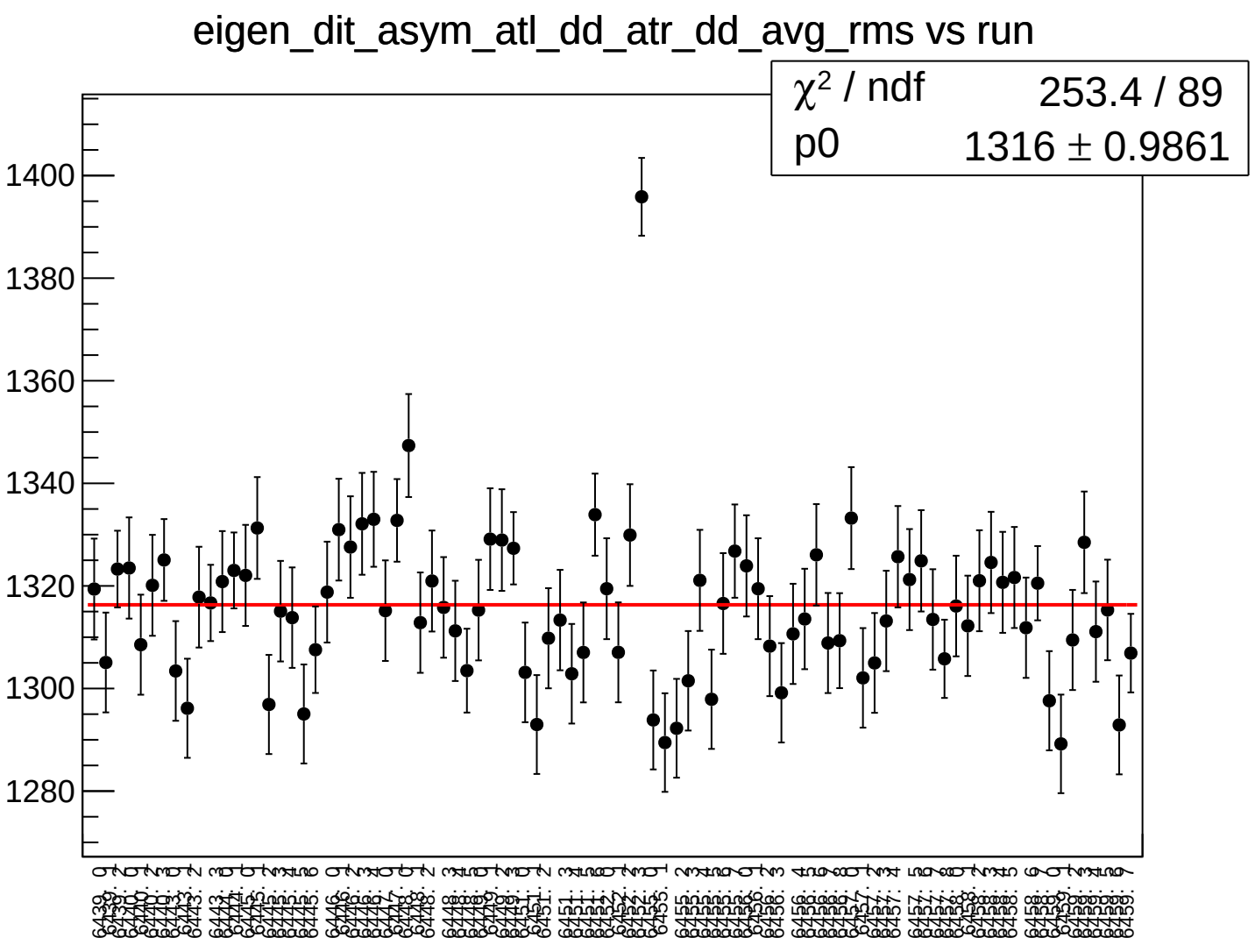

asym_atl_dd_atr_dd_avg_dit_correction_mean vs run
χ² / ndf 80.44 / 89
p0 5788 ± 3880
×10³
150
100
50
0
−50
−100
pull
Entries 90
Mean −112.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

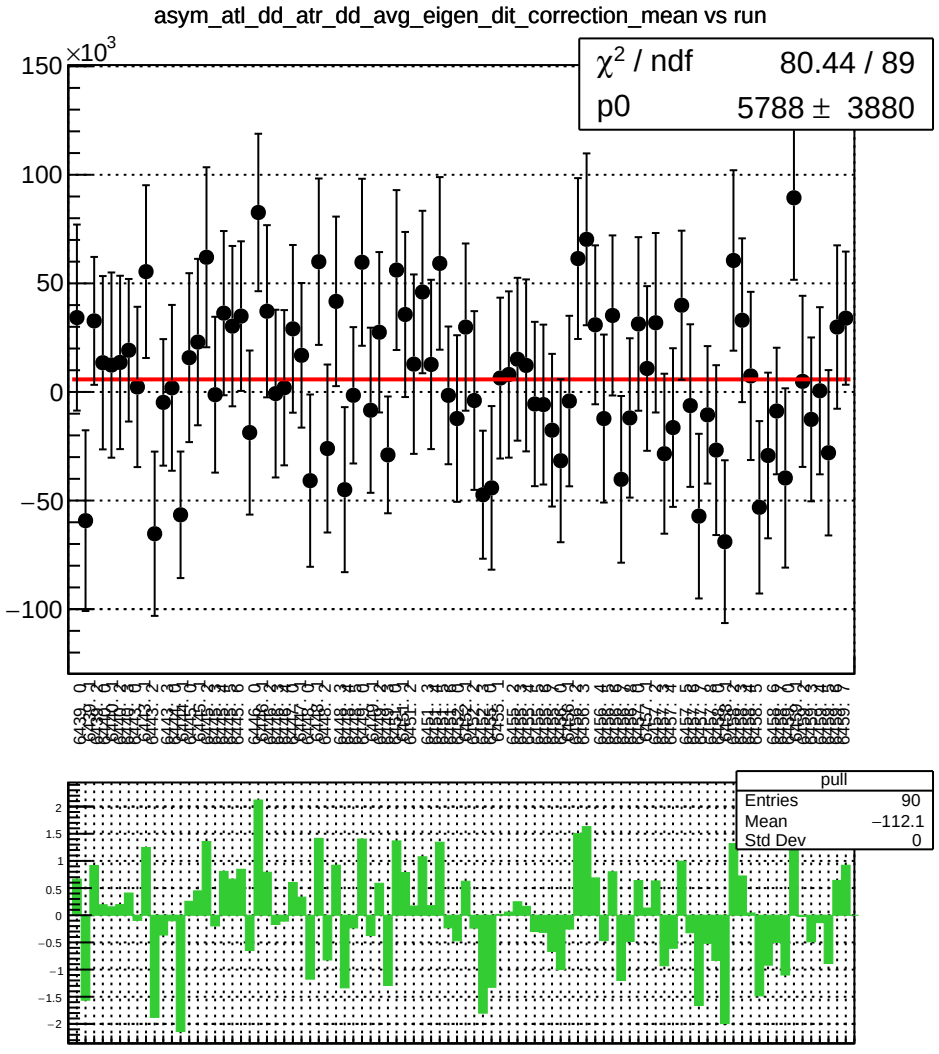

pull1D
Entries 90
Mean 0.01763
Std Dev 0.9452
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

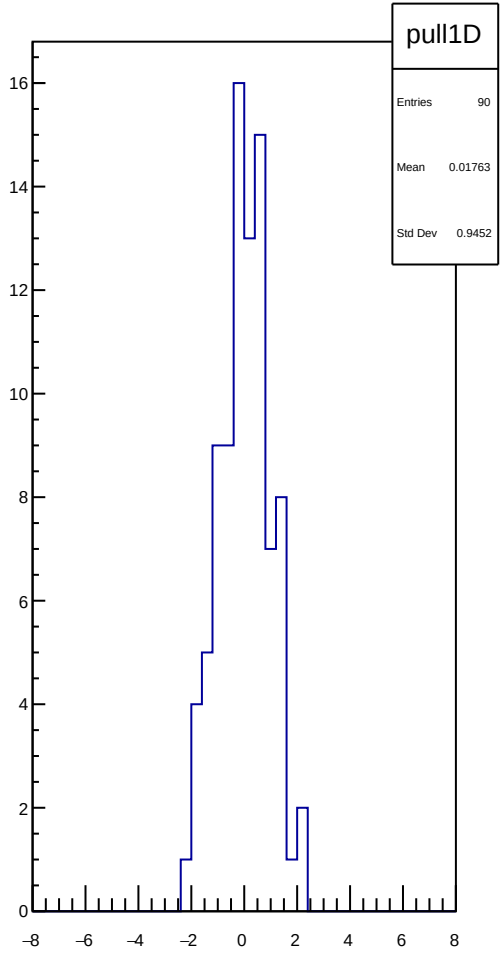

asym_atl_dd_atr_dd_avg_dit_correction_rms vs run
χ² / ndf 2610 / 89
p0 3660 ± 2.744
4000
3800
3600
3400
3200

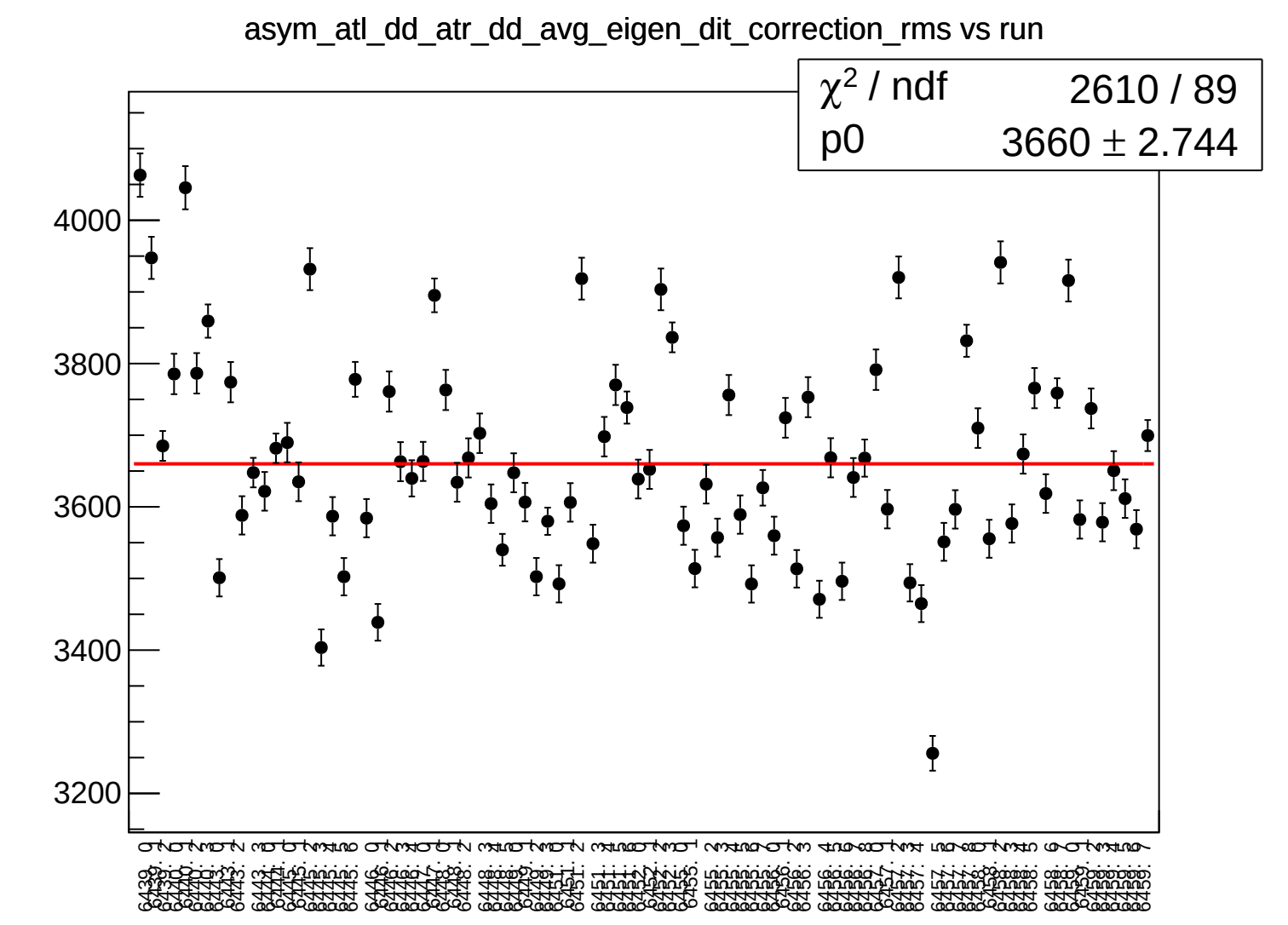

eigen_dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 62.69 / 89
p0 −1463 ± 1395
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −46.55
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

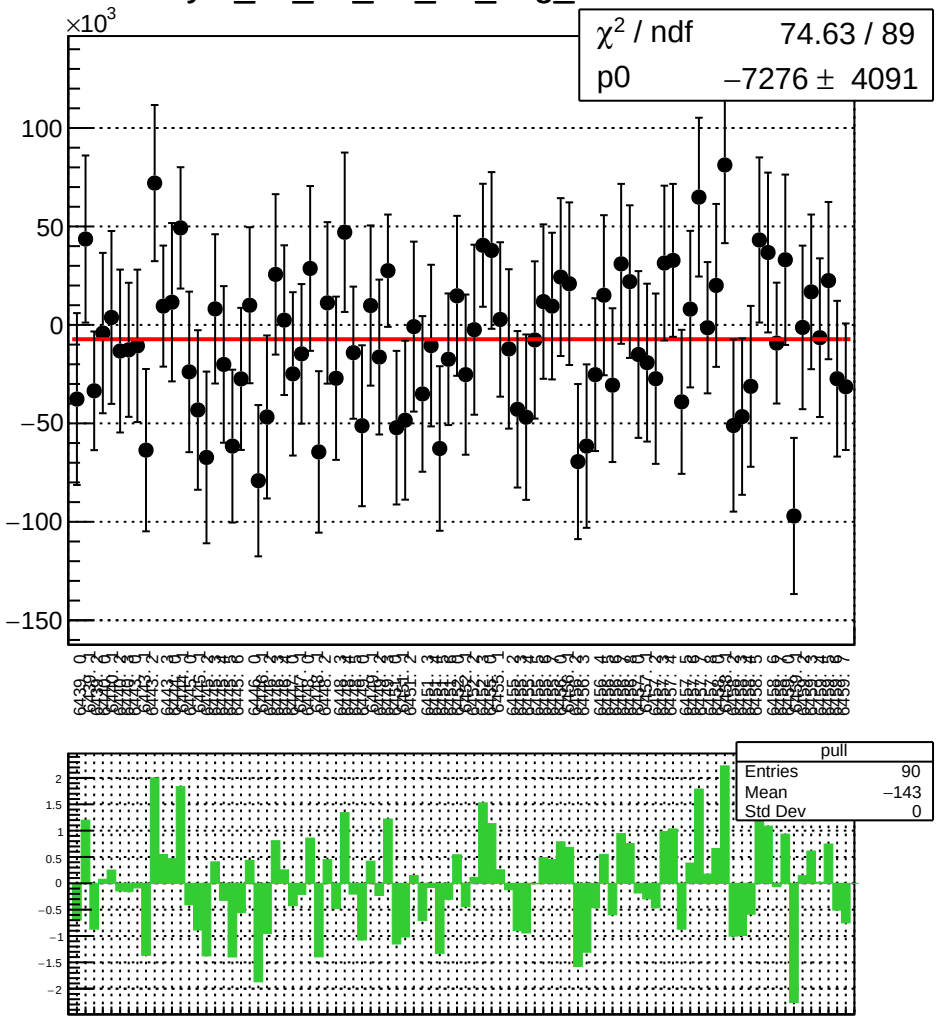

pull1D
Entries 90
Mean 0.01284
Std Dev 0.8345
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

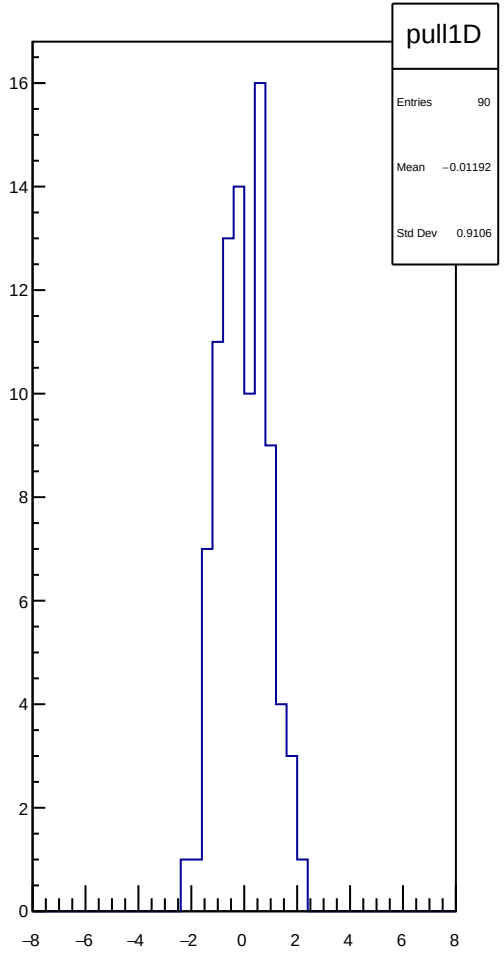

eigen_dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 253.4 / 89
p0 1316 ± 0.9861
1400
1380
1360
1340
1320
1300
1280

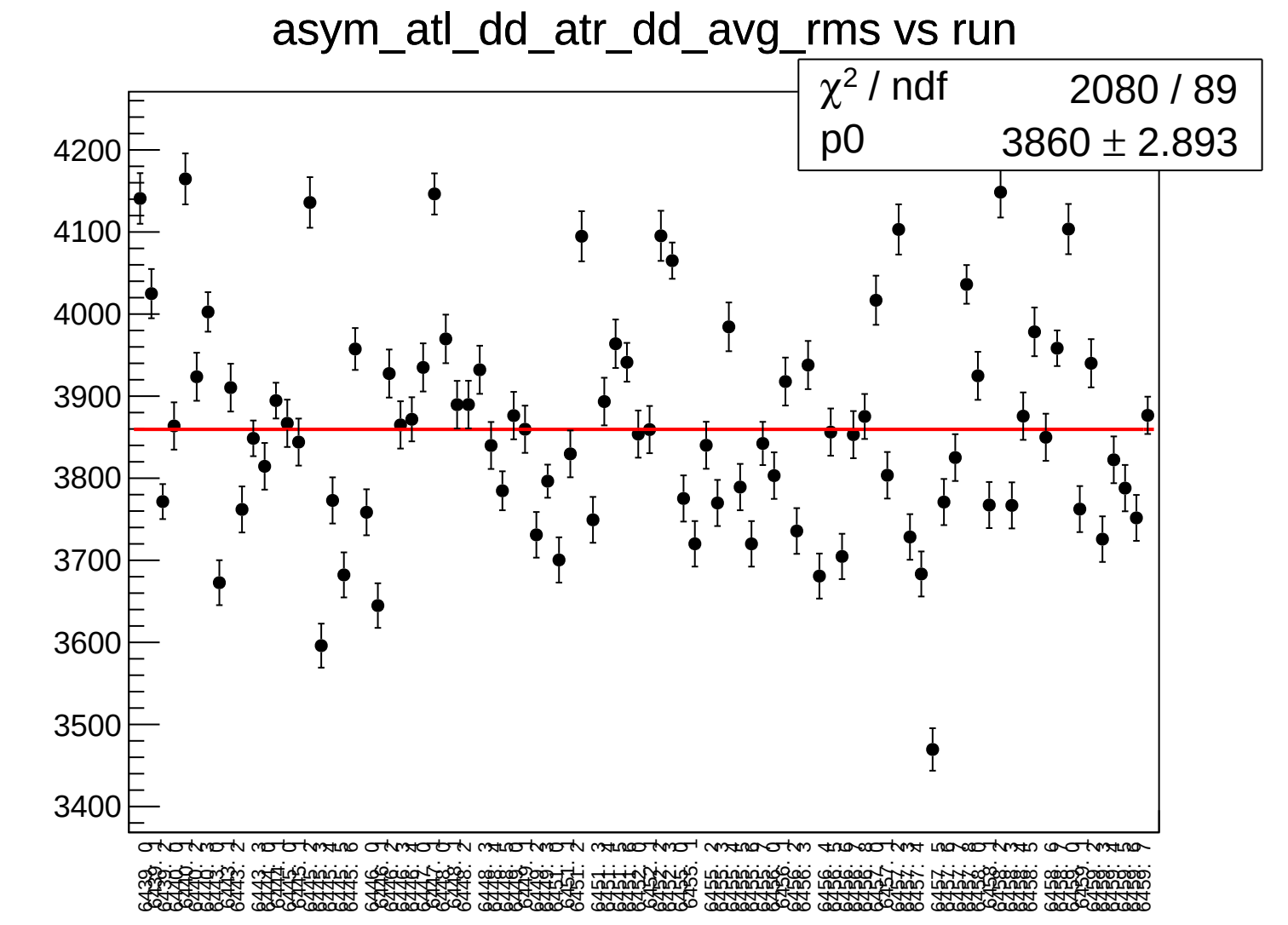

asym_atl_dd_atr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 80.44 / 89
p0 5788 ± 3880
×10³
150
100
50
0
−50
−100
pull
Entries 90
Mean −112.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

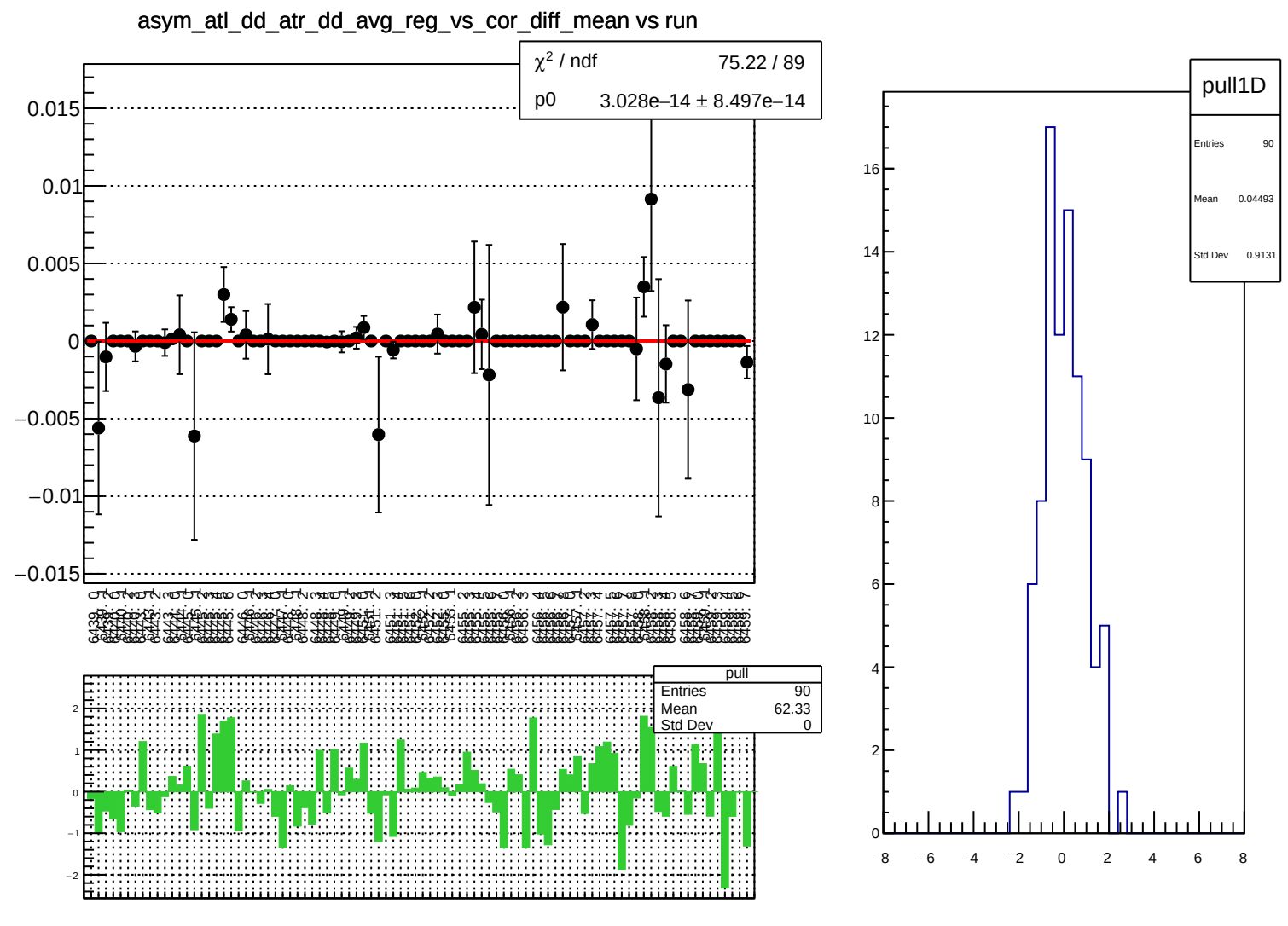

pull1D
Entries 90
Mean 0.01763
Std Dev 0.9452
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

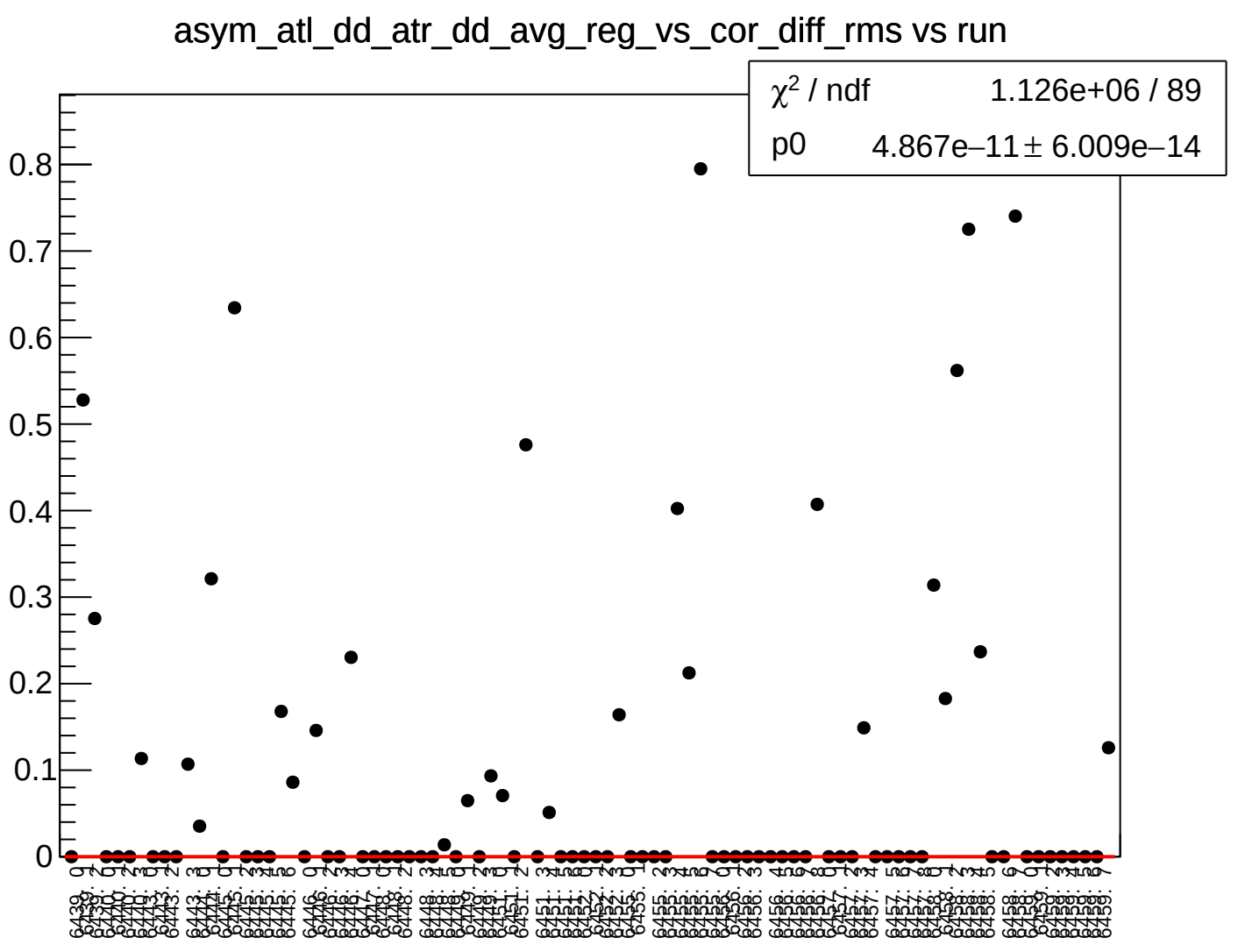

asym_atl_dd_atr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 2610 / 89
p0 3660 ± 2.744
4000
3800
3600
3400
3200

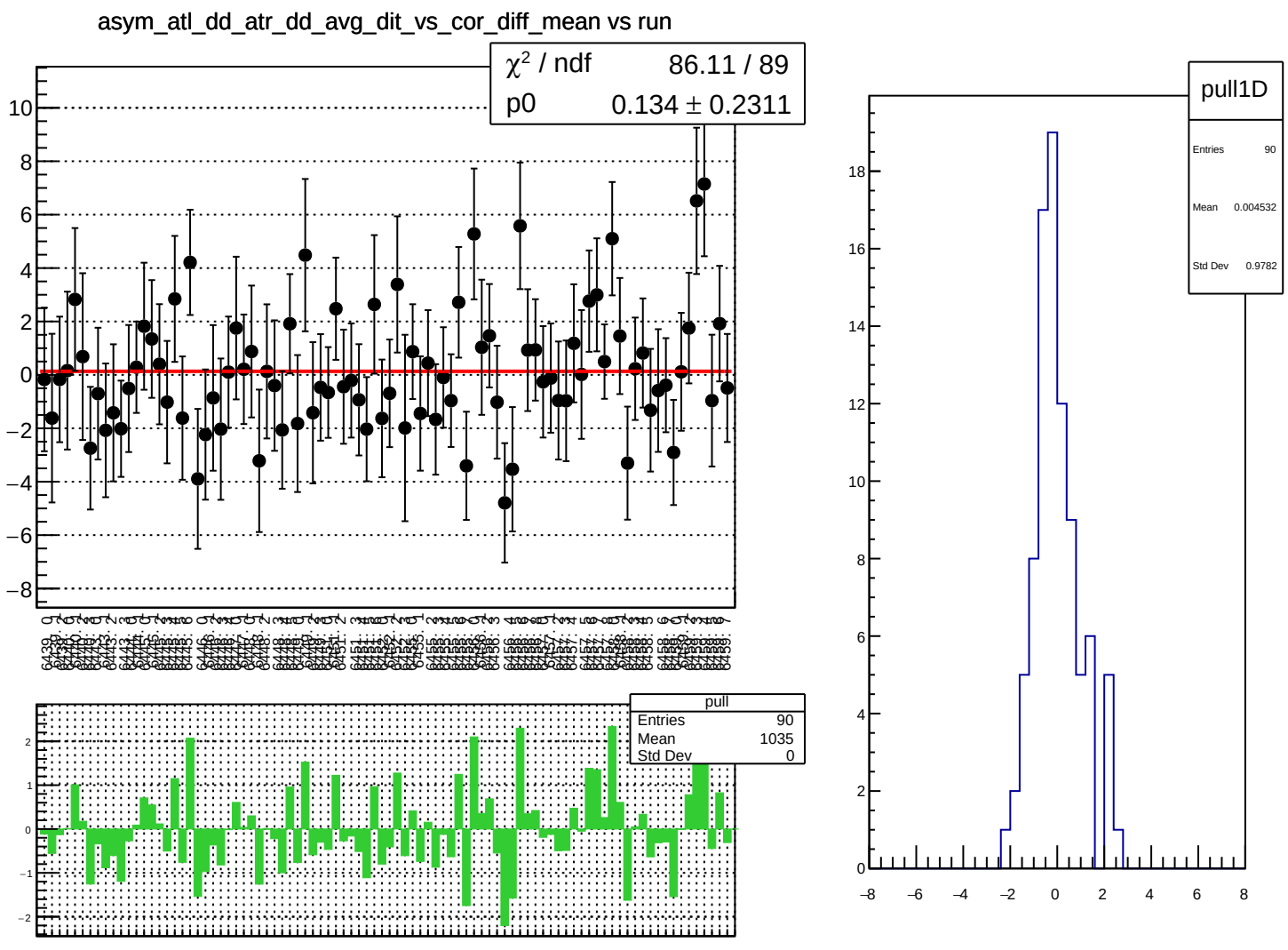

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 74.63 / 89
p0 −7276 ± 4091
100
50
0
−50
−100
−150
pull
Entries 90
Mean −143
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

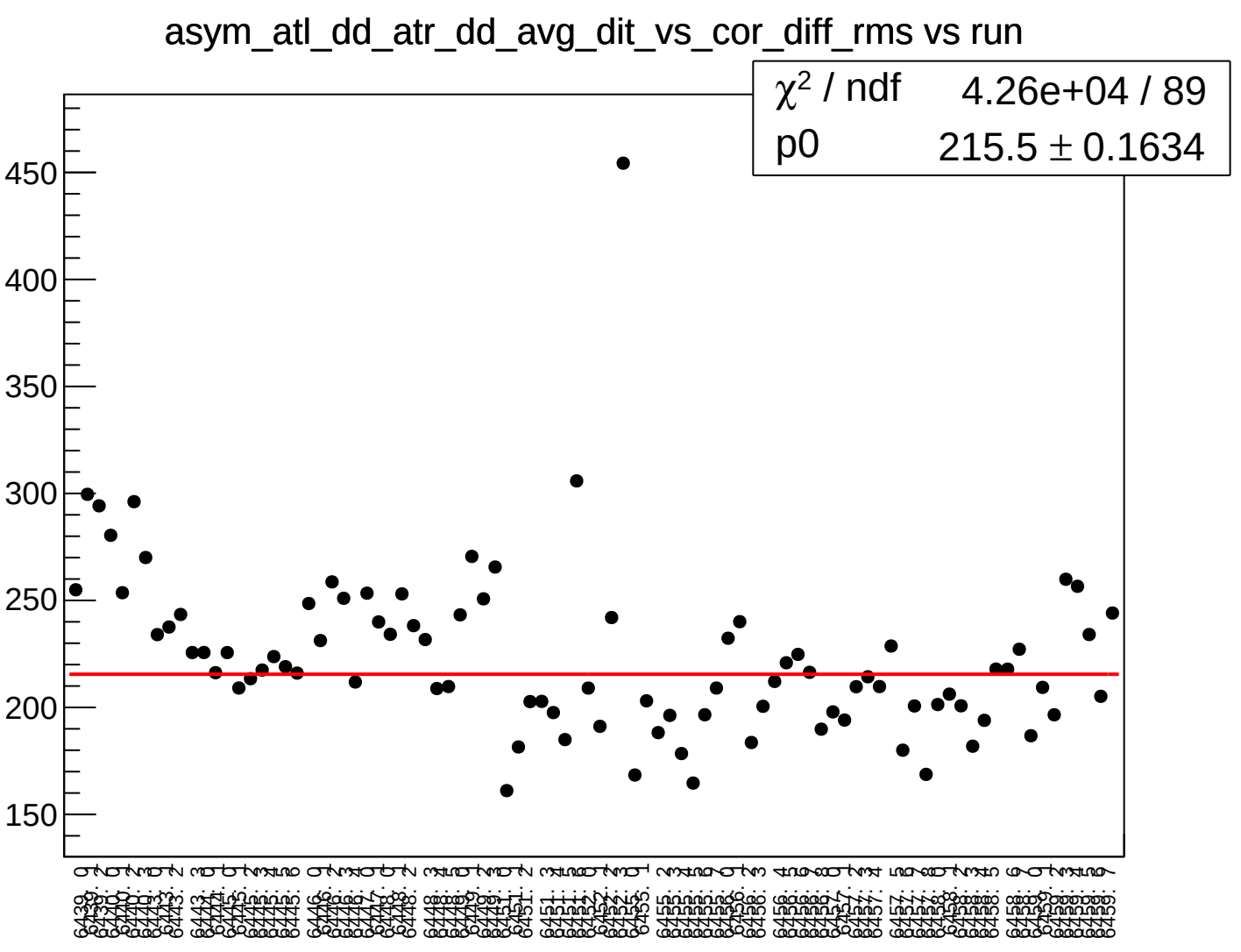

pull1D
Entries 90
Mean −0.01192
Std Dev 0.9106
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

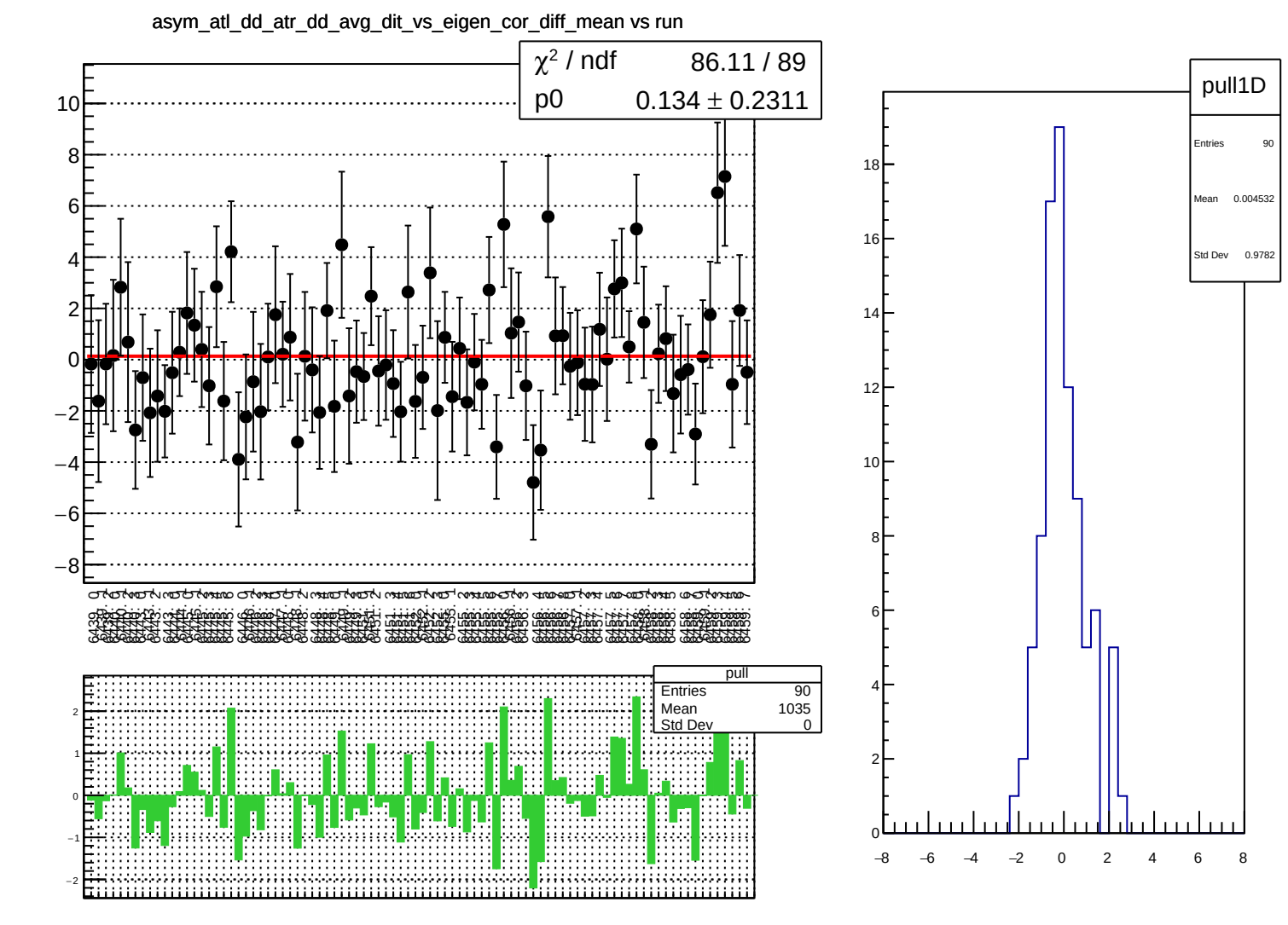

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 2080 / 89
p0 3860 ± 2.893
4200
4100
4000
3900
3800
3700
3600
3500
3400

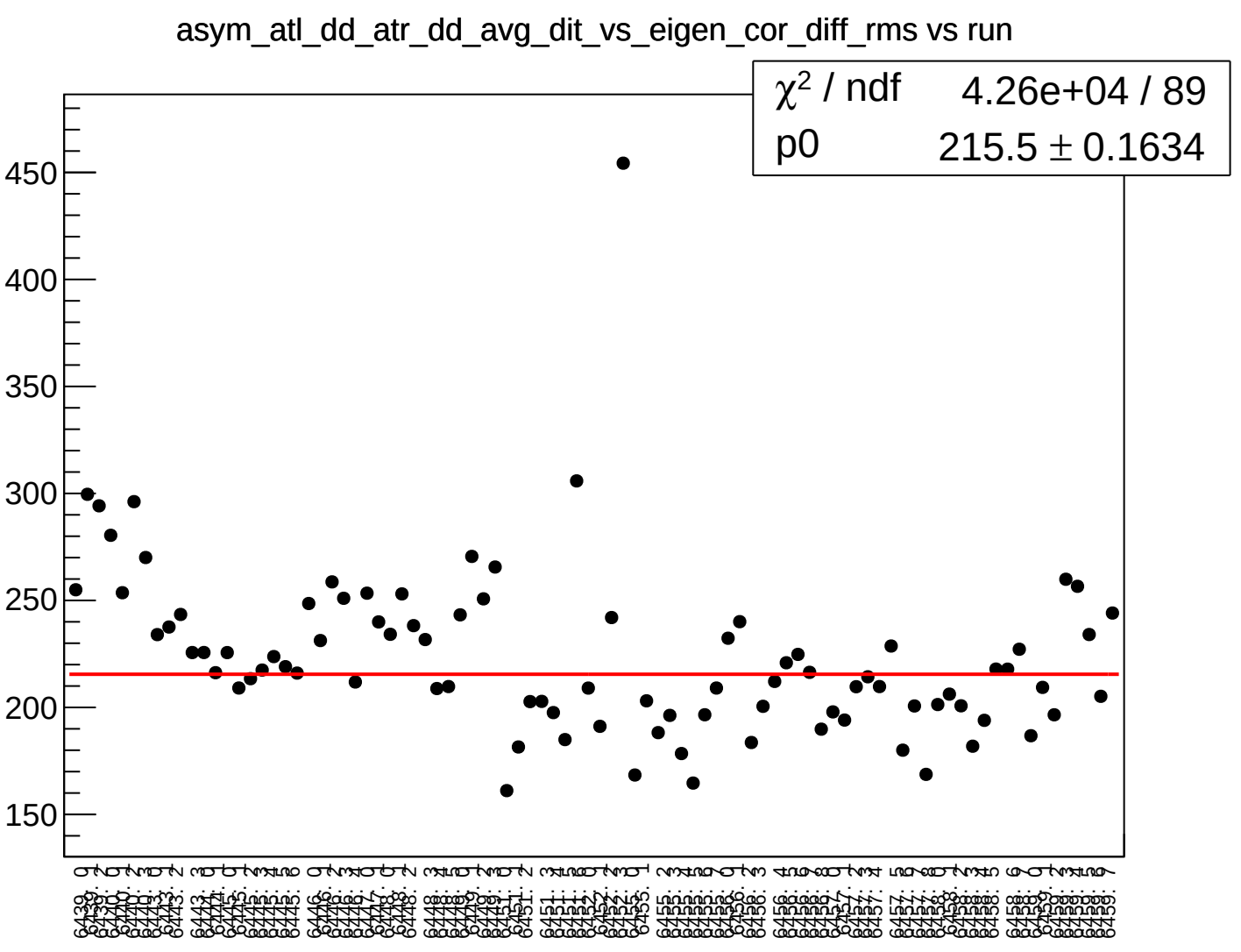

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 75.22 / 89
p0 3.028e−14 ± 8.497e−14
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 90
Mean 62.33
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 90
Mean 0.04493
Std Dev 0.9131
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

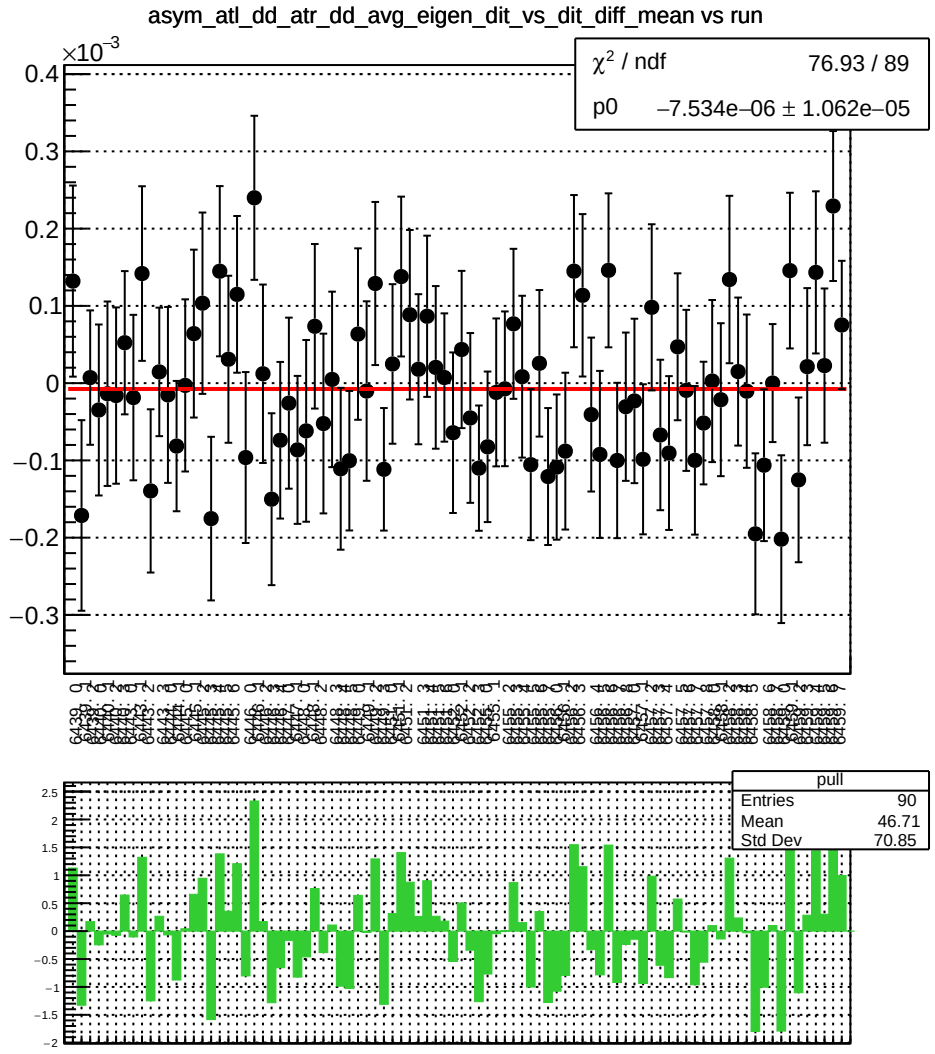

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.126e+06 / 89
p0 4.867e−11 ± 6.009e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

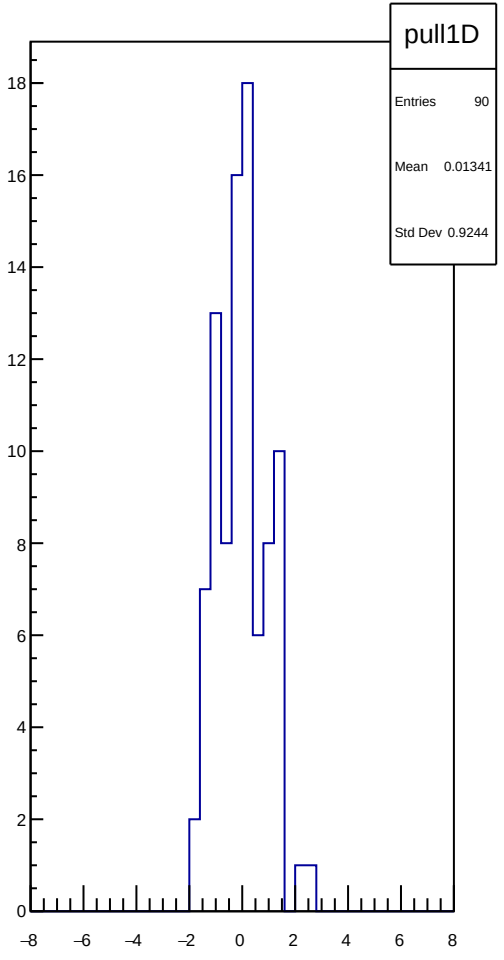

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 86.11 / 89
p0 0.134 ± 0.2311
pull
Entries 90
Mean 1035
Std Dev 0
pull1D
Entries 90
Mean 0.004532
Std Dev 0.9782

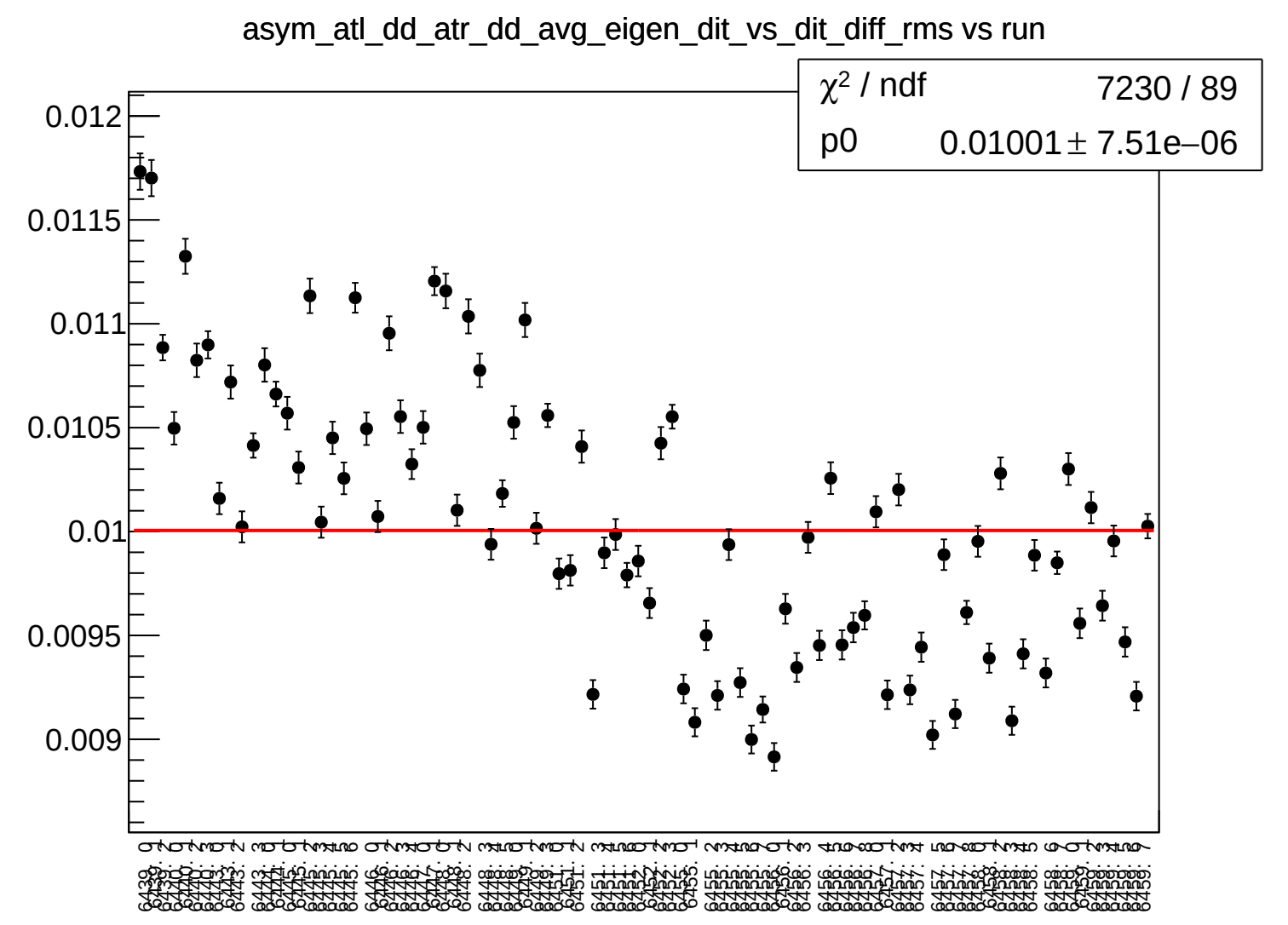

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.26e+04 / 89
p0 215.5 ± 0.1634
450
400
350
300
250
200
150

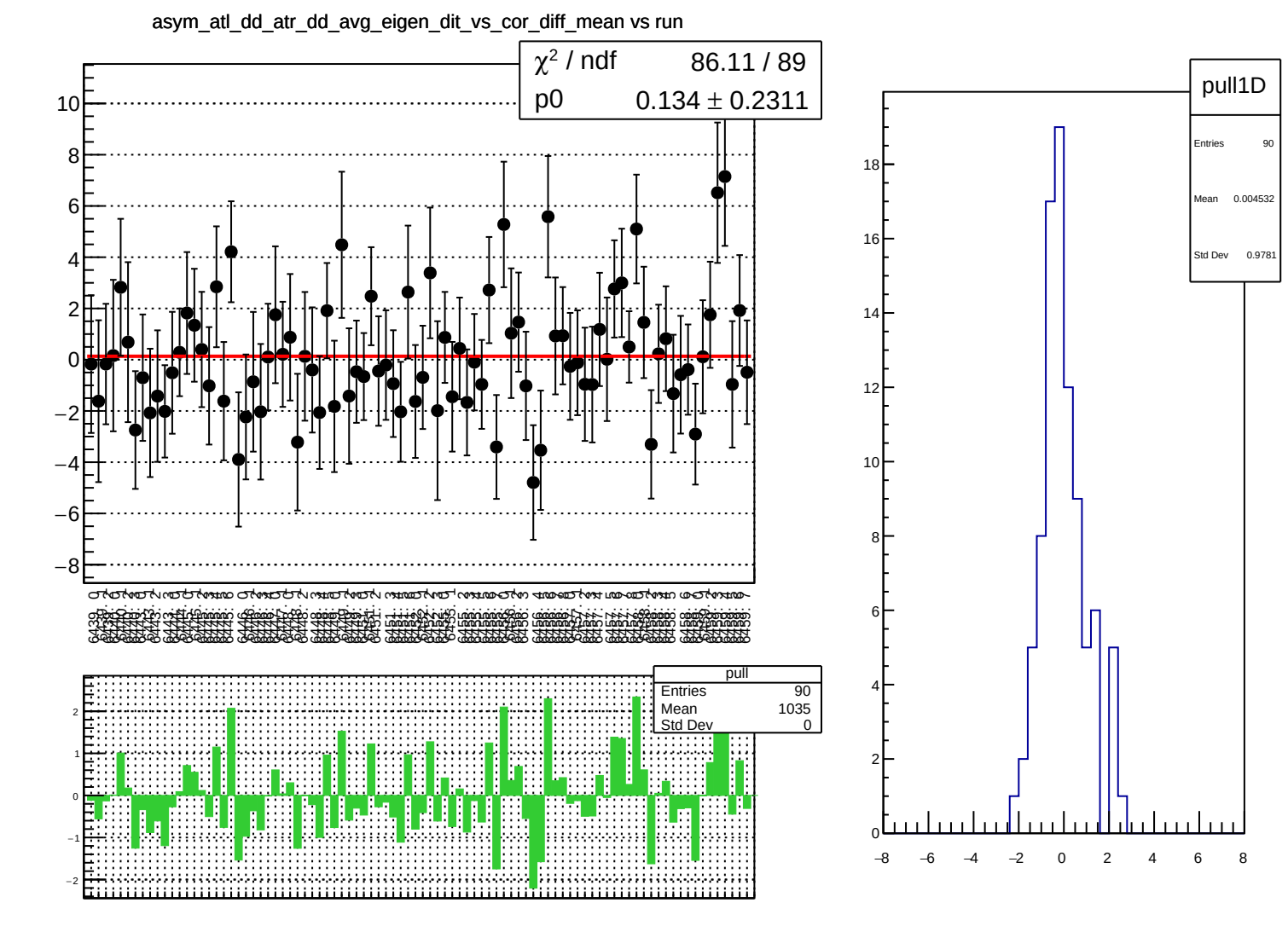

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.11 / 89
p0 0.134 ± 0.2311
pull
Entries 90
Mean 1035
Std Dev 0
pull1D
Entries 90
Mean 0.004532
Std Dev 0.9782

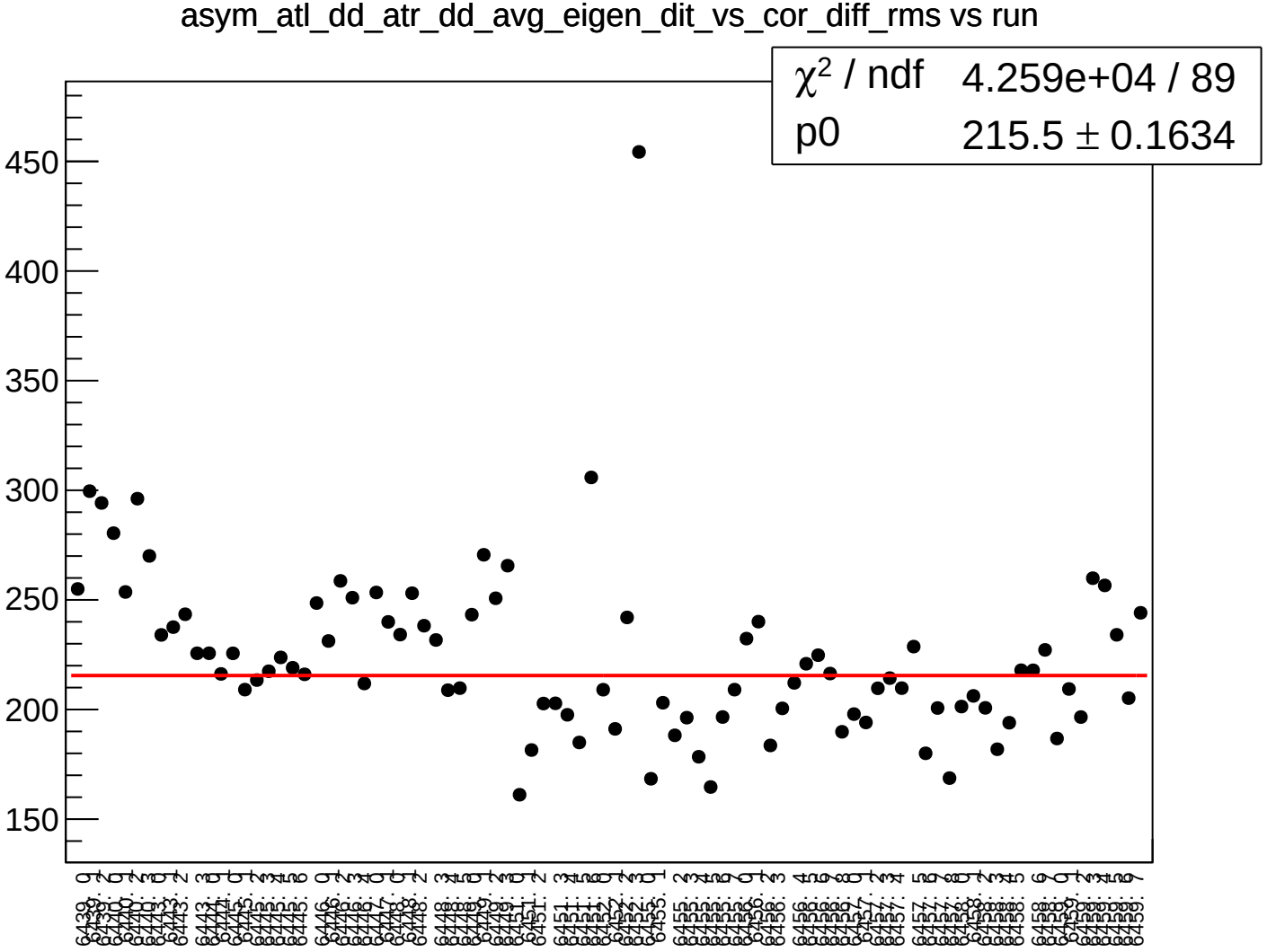

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.26e+04 / 89
p0 215.5 ± 0.1634
450
400
350
300
250
200
150

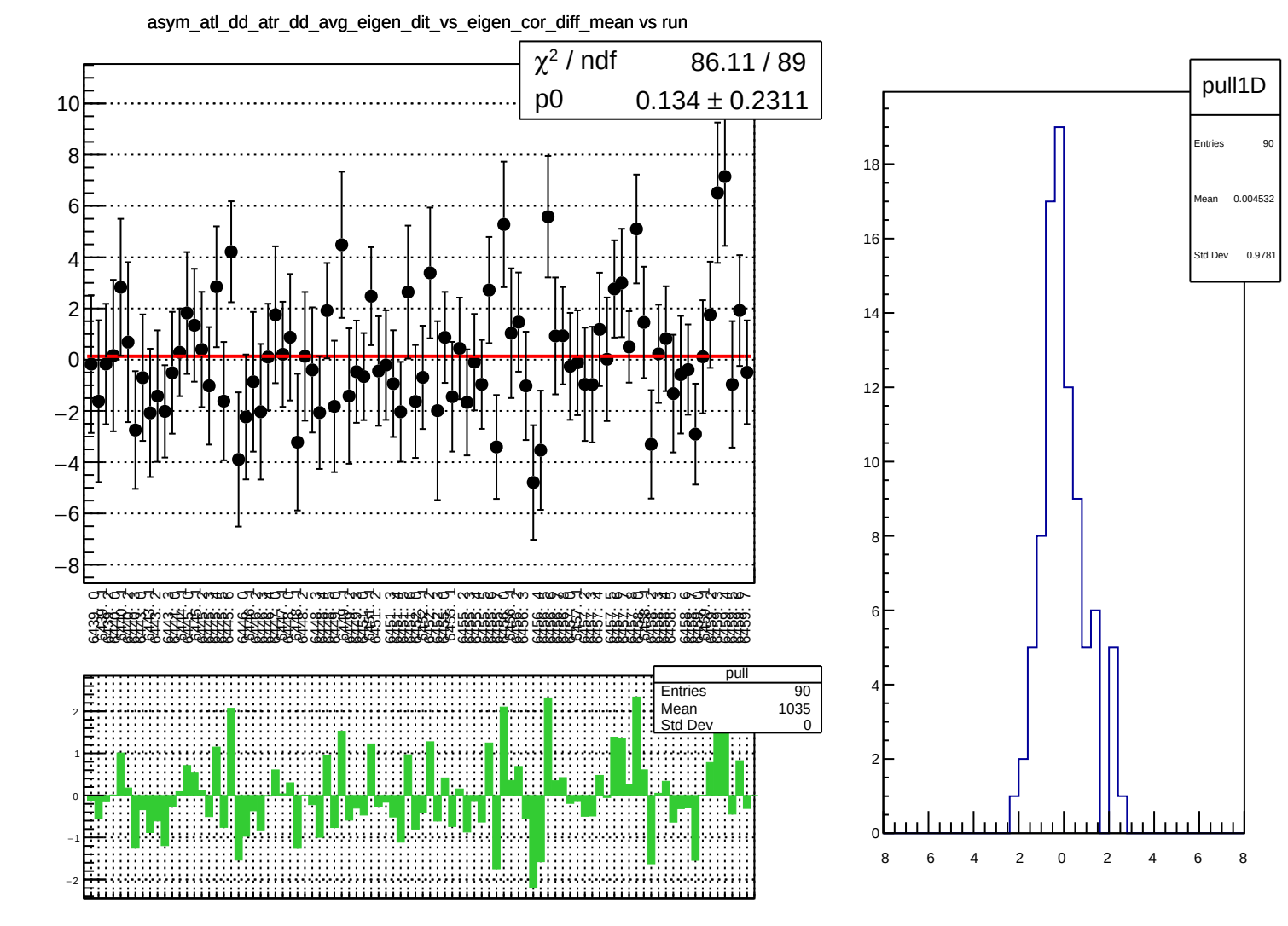

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 76.93 / 89
p0 −7.534e−06 ± 1.062e−05
pull
Entries 90
Mean 46.71
Std Dev 70.85

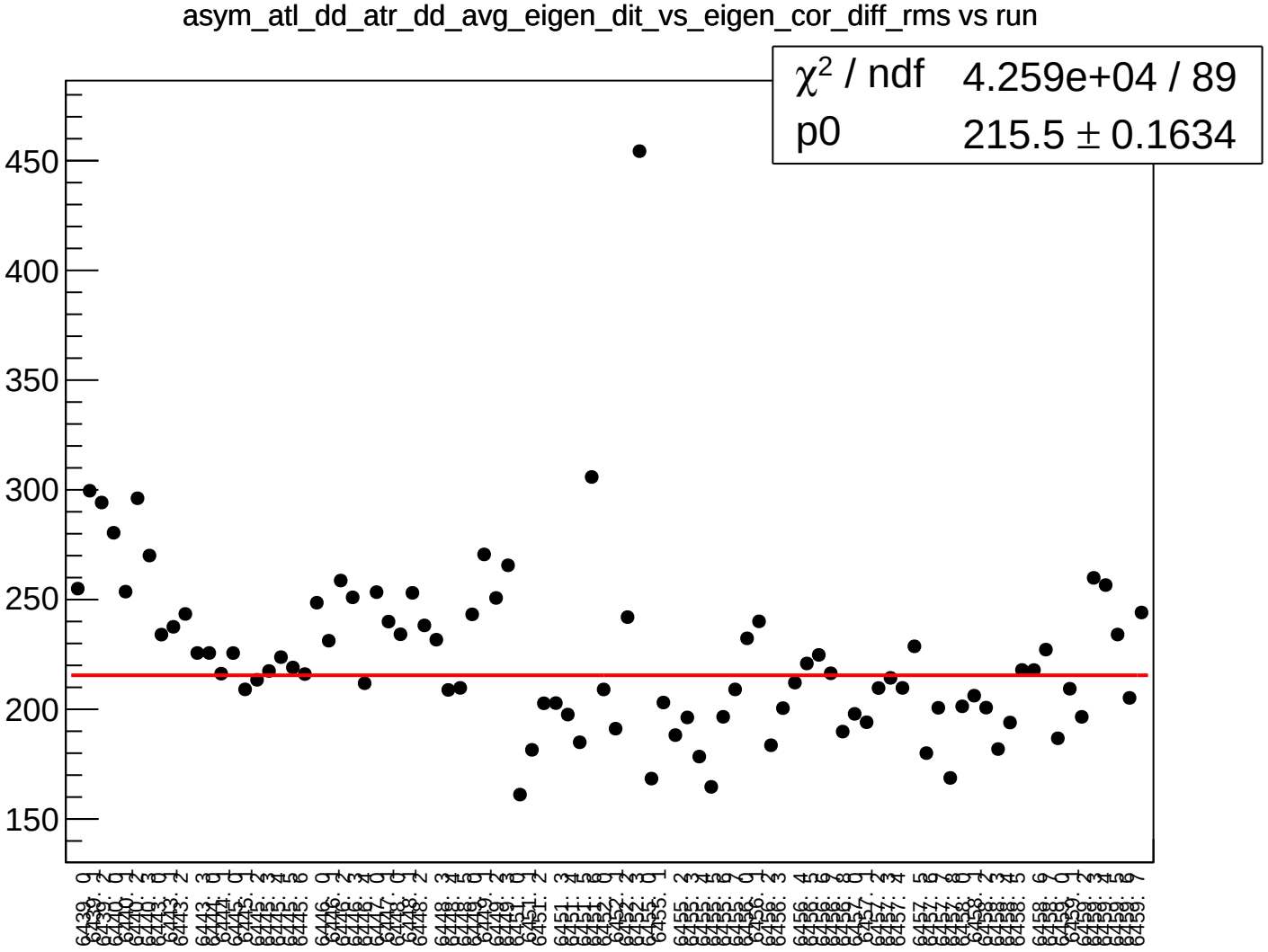

pull1D
Entries 90
Mean 0.01341
Std Dev 0.9244

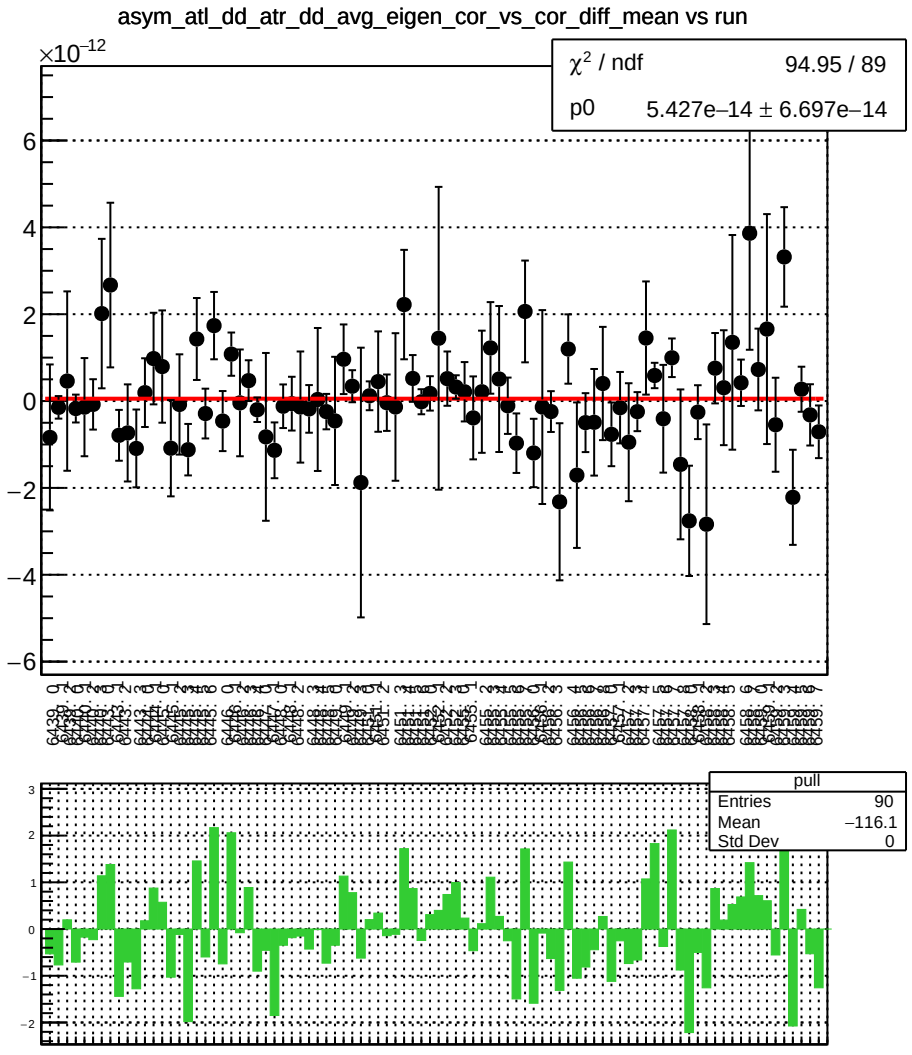

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7230 / 89
p0 0.01001 ± 7.51e–06
0.012
0.0115
0.011
0.0105
0.01
0.0095
0.009

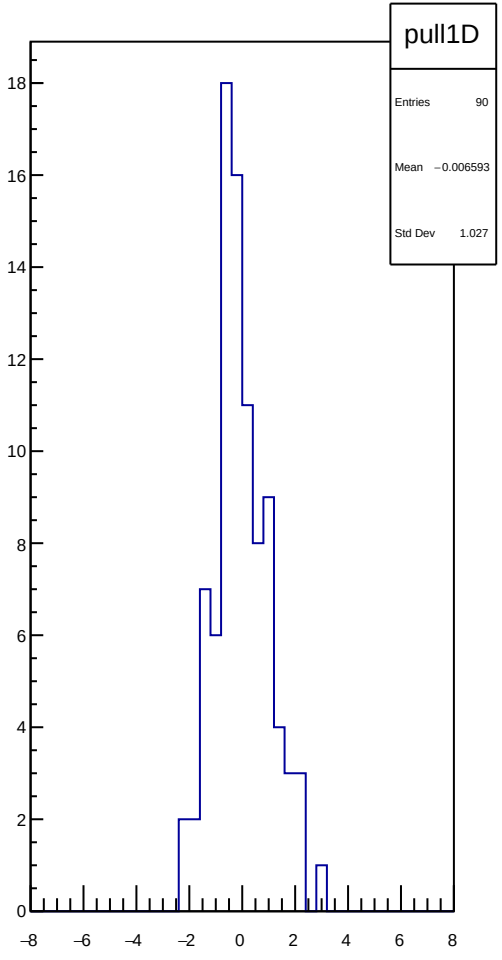

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.11 / 89
p0 0.134 ± 0.2311
pull
Entries 90
Mean 1035
Std Dev 0
pull1D
Entries 90
Mean 0.004532
Std Dev 0.9781

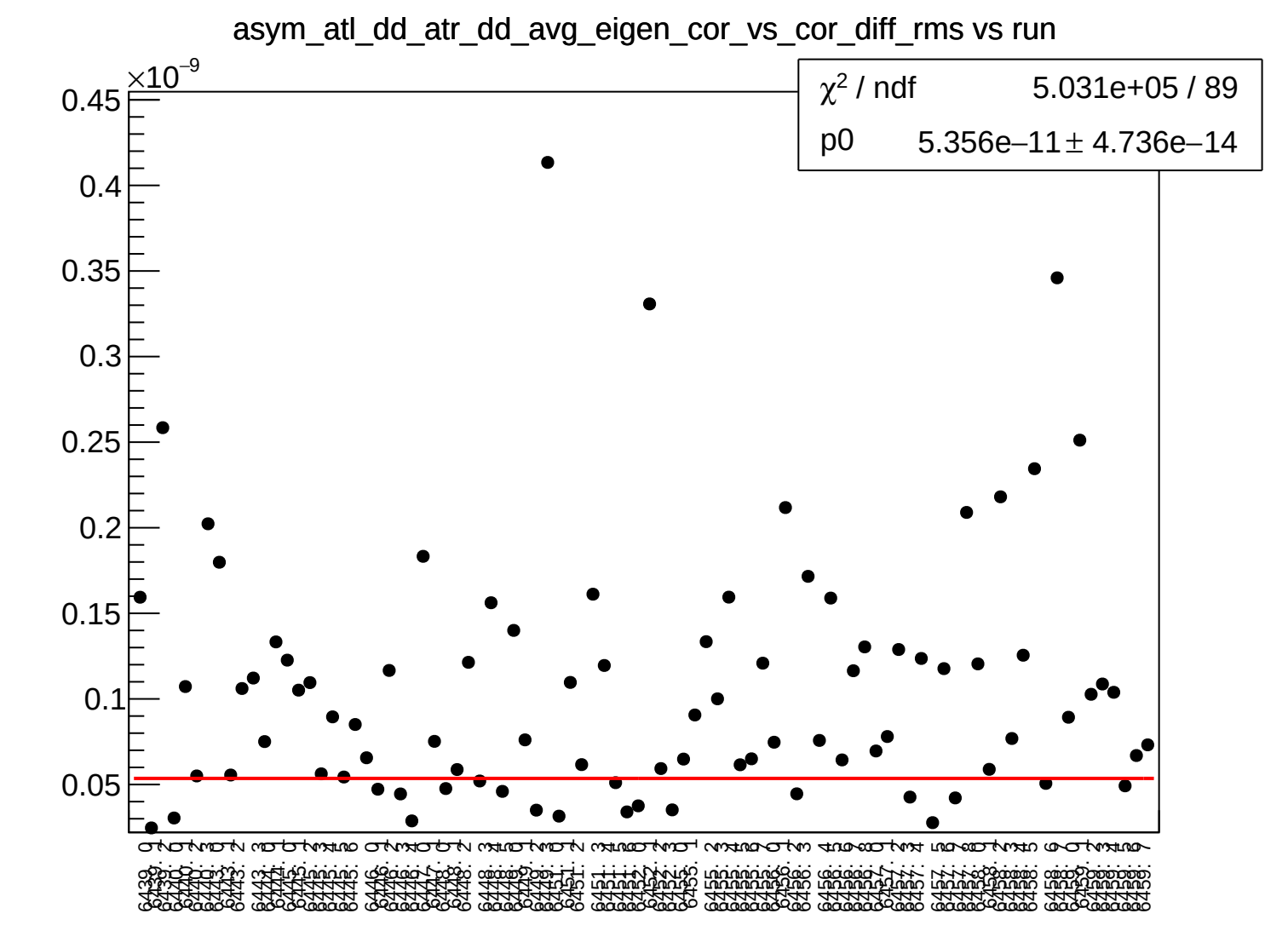

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.259e+04 / 89
p0 215.5 ± 0.1634
450
400
350
300
250
200
150

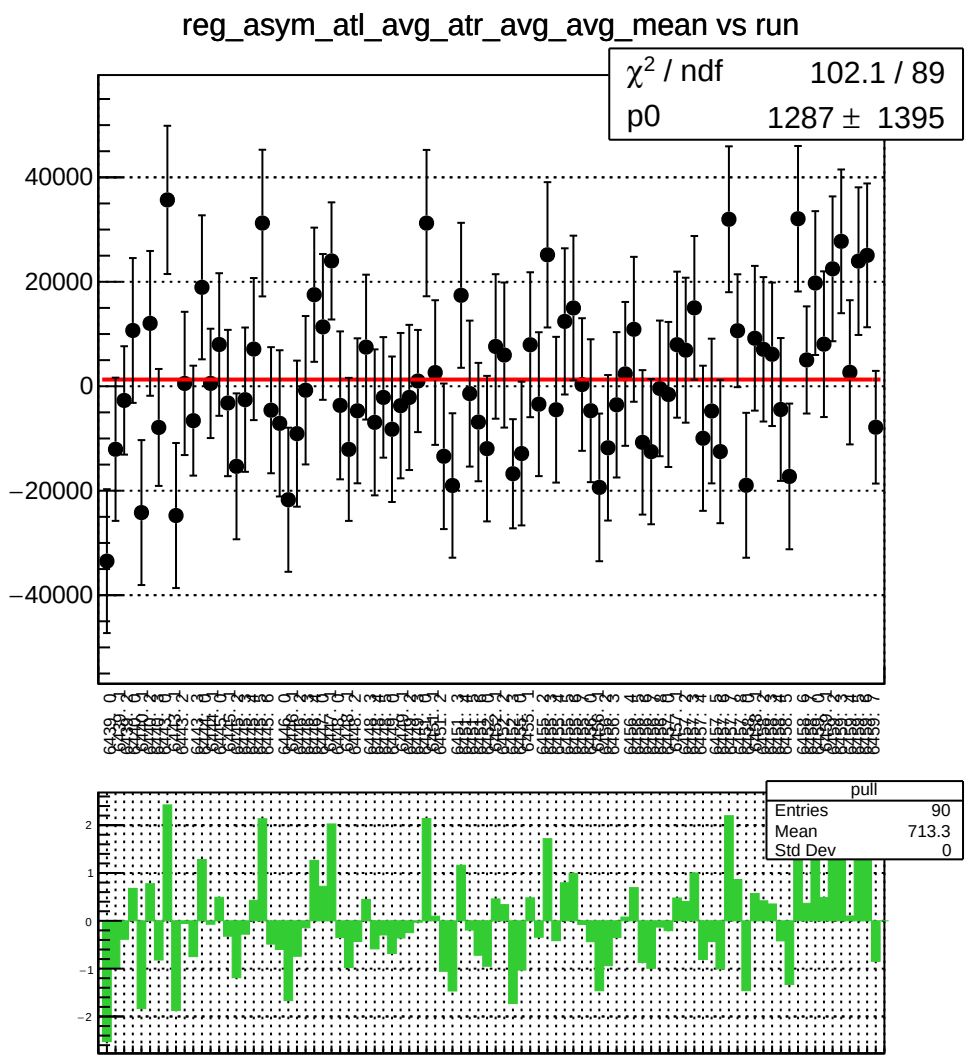

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.11 / 89
p0 0.134 ± 0.2311
pull
Entries 90
Mean 1035
Std Dev 0
pull1D
Entries 90
Mean 0.004532
Std Dev 0.9781

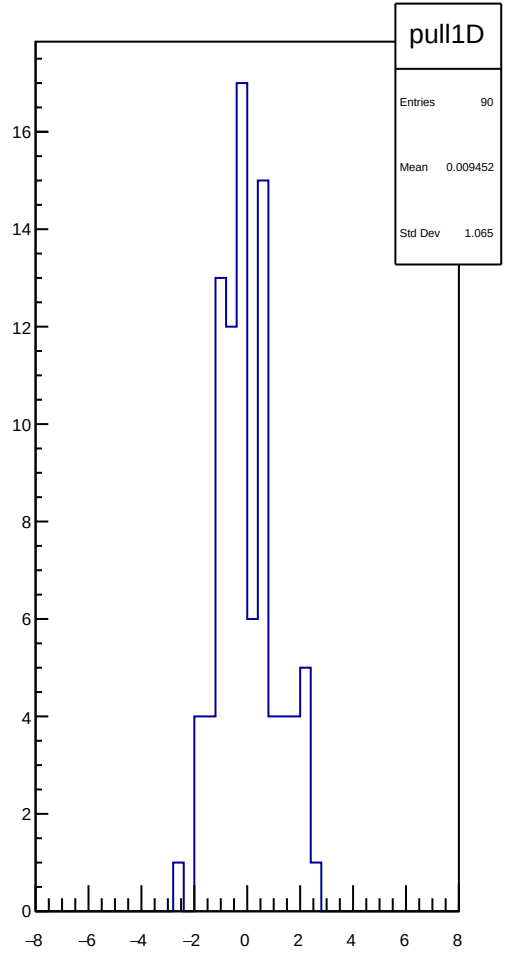

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.259e+04 / 89
p0 215.5 ± 0.1634
450
400
350
300
250
200
150

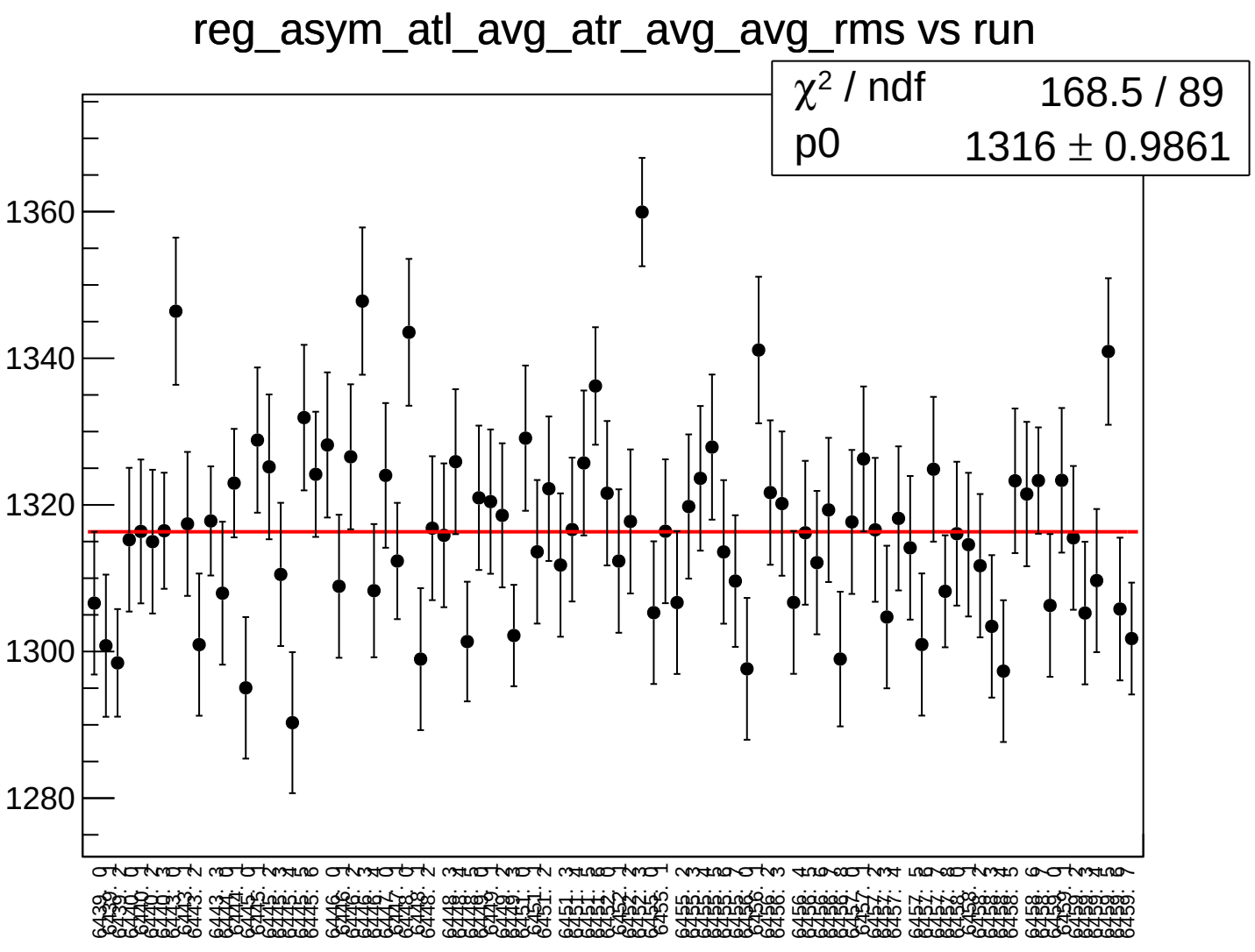

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.95 / 89
p0 5.427e−14 ± 6.697e−14
pull
Entries 90
Mean −116.1
Std Dev 0

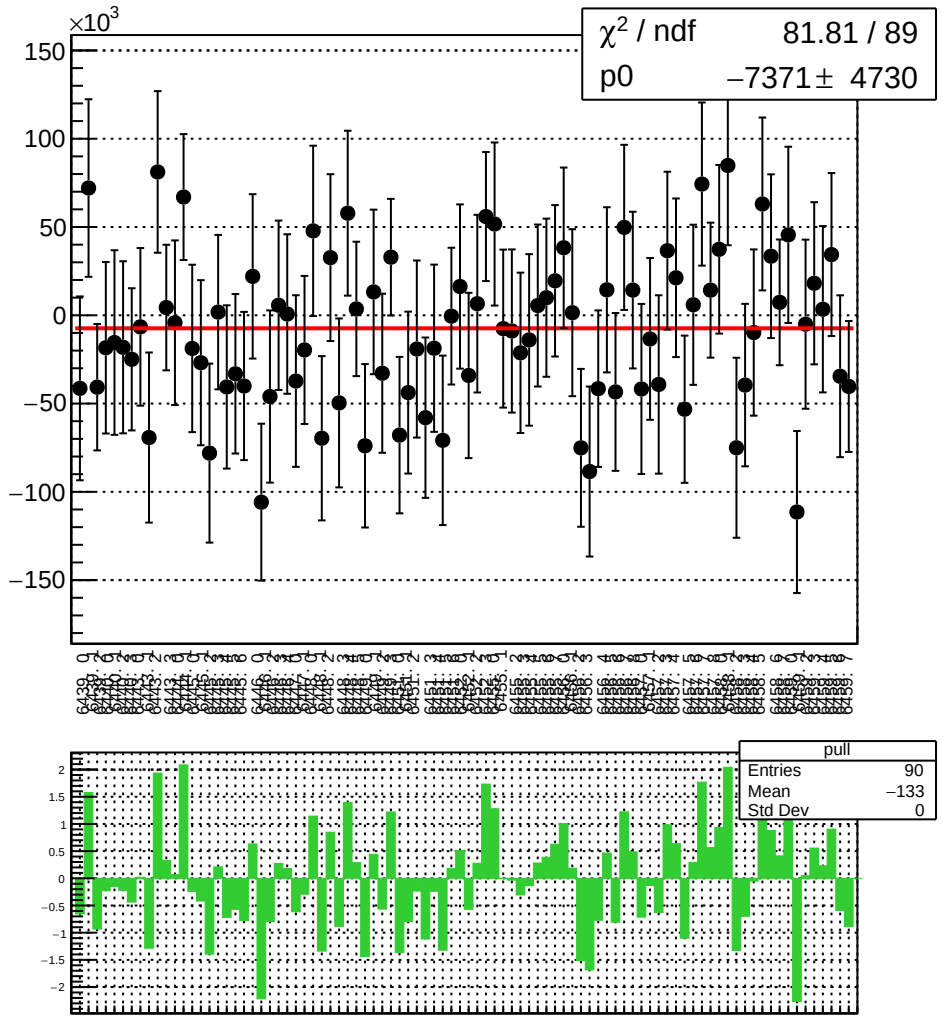

pull1D
Entries 90
Mean −0.006593
Std Dev 1.027

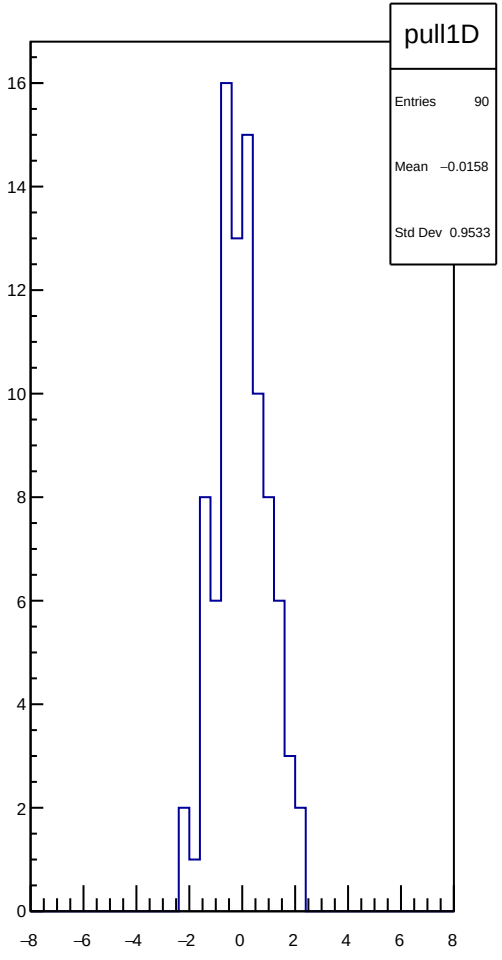

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.031e+05 / 89
p0 5.356e−11 ± 4.736e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

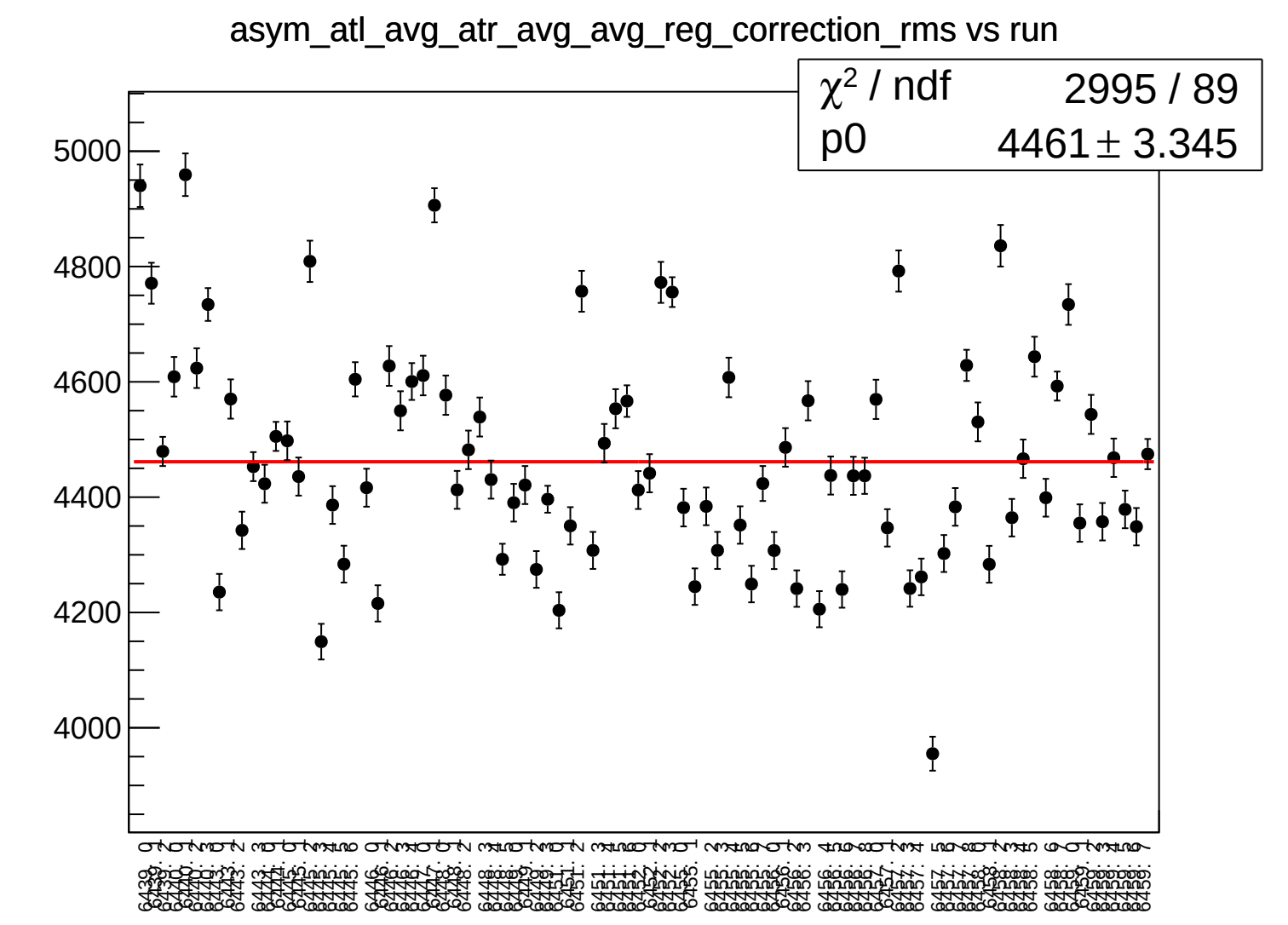

reg_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 102.1 / 89
p0 1287 ± 1395
40000
20000
0
−20000
−40000
pull
Entries 90
Mean 713.3
Std Dev 0
2
1
0
−1
−2

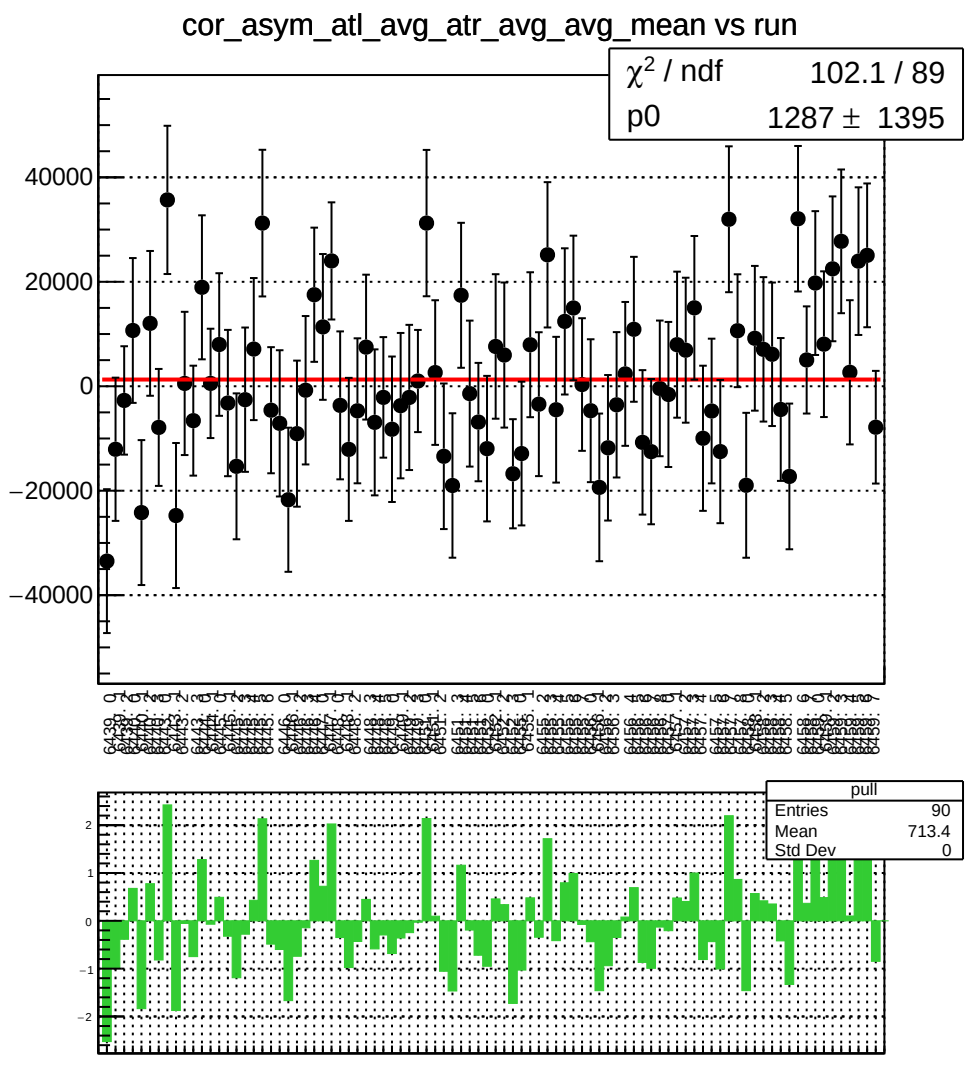

pull1D
Entries 90
Mean 0.009452
Std Dev 1.065
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

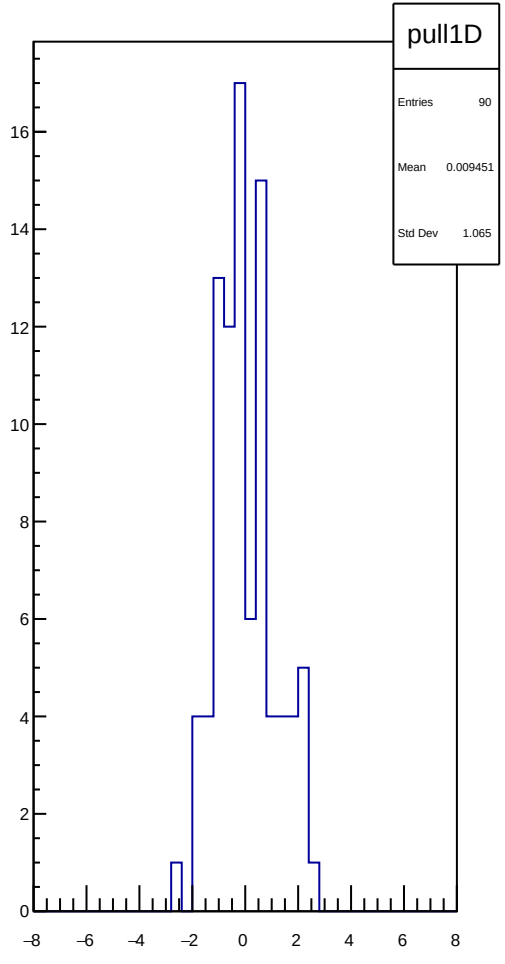

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 168.5 / 89
p0 1316 ± 0.9861
1360
1340
1320
1300
1280

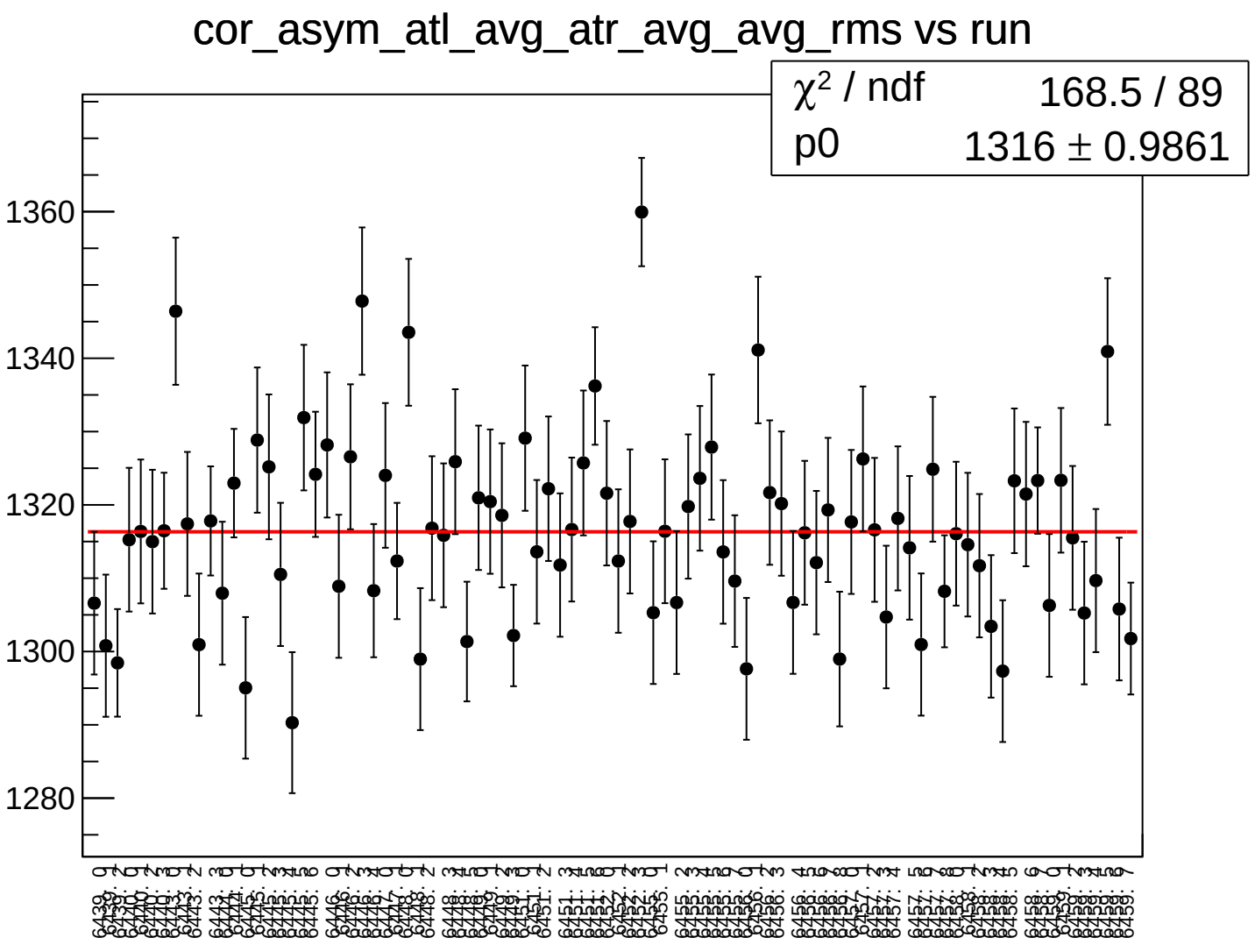

asym_atl_avg_atr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 81.81 / 89
p0 −7371 ± 4730
150
100
50
0
−50
−100
−150
pull
Entries 90
Mean −133
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

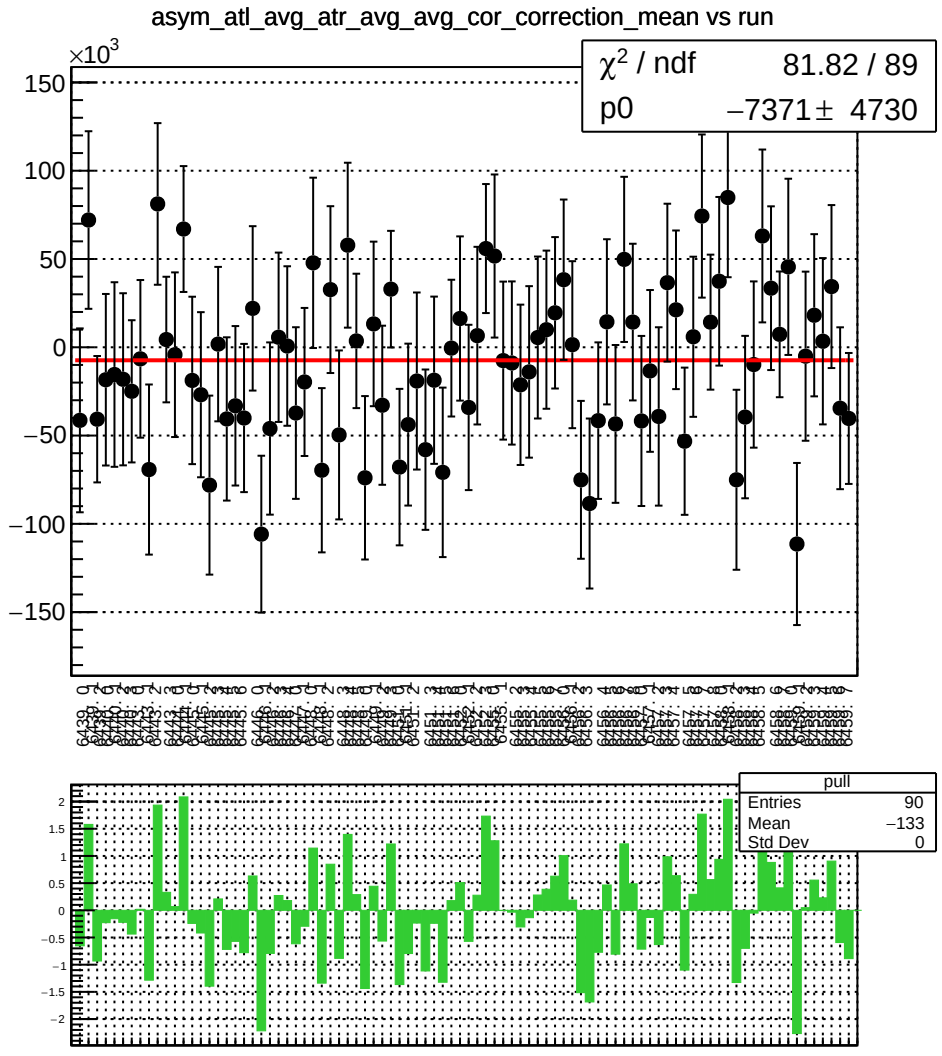

pull1D
Entries 90
Mean −0.0158
Std Dev 0.9533
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

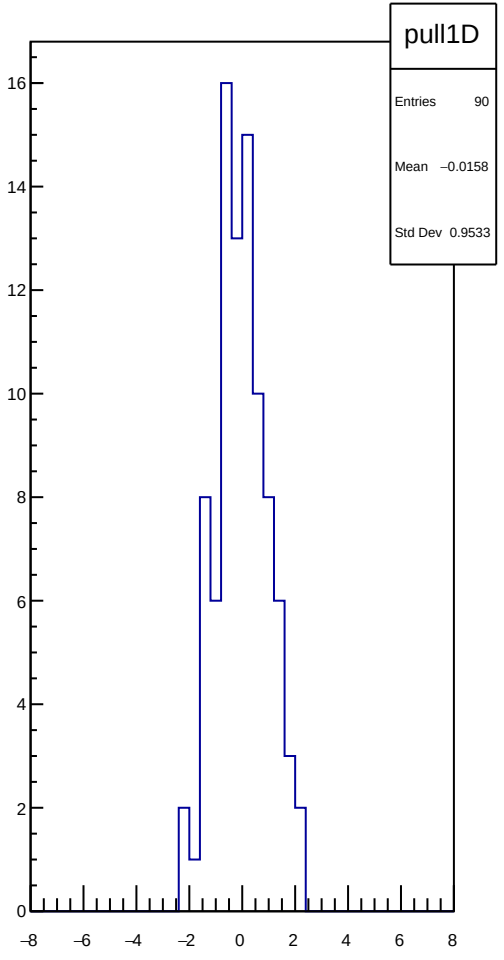

asym_atl_avg_atr_avg_avg_reg_correction_rms vs run
χ² / ndf 2995 / 89
p0 4461 ± 3.345
5000
4800
4600
4400
4200
4000

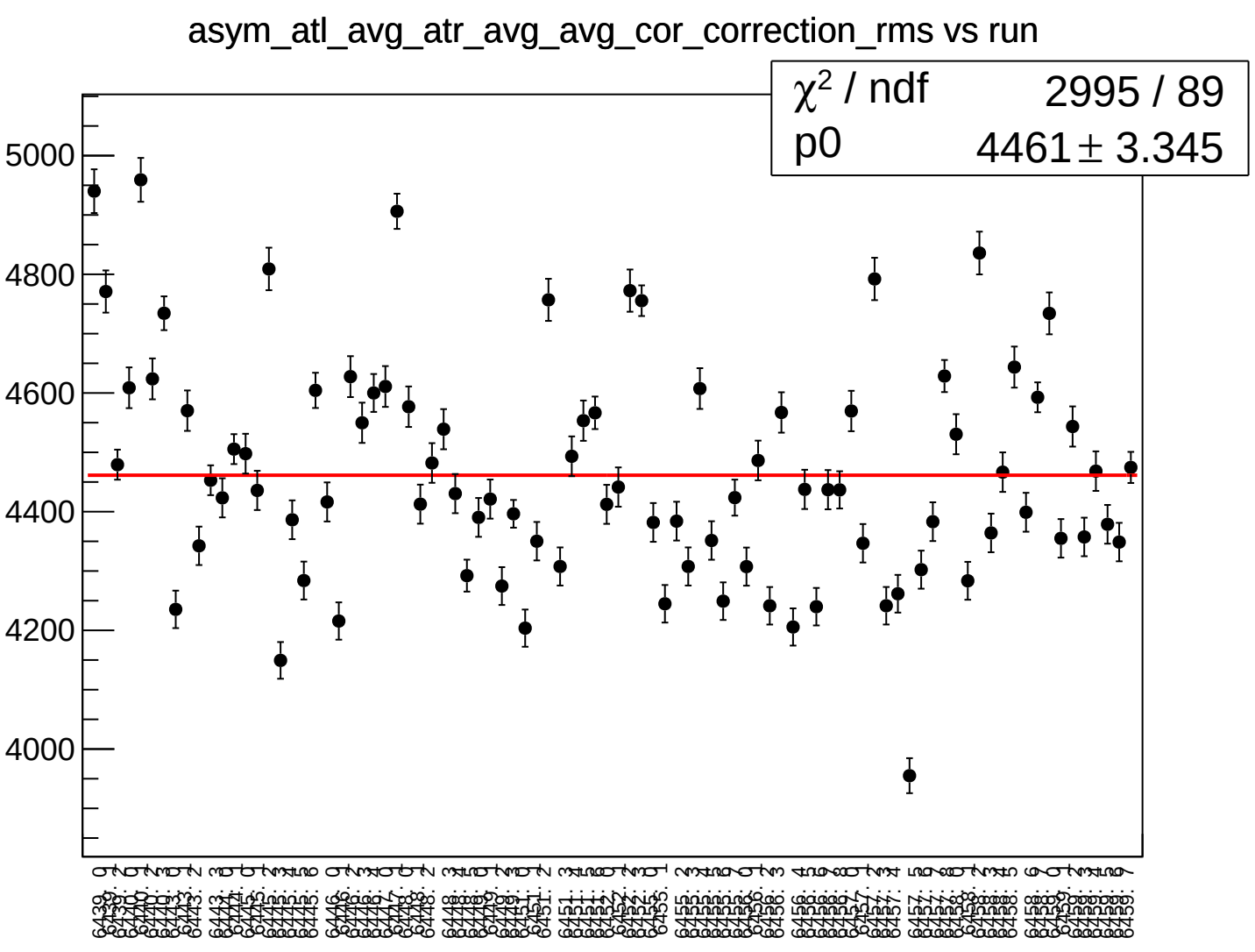

cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 102.1 / 89
p0 1287 ± 1395
40000
20000
0
−20000
−40000
pull
Entries 90
Mean 713.4
Std Dev 0
2
1
0
−1
−2

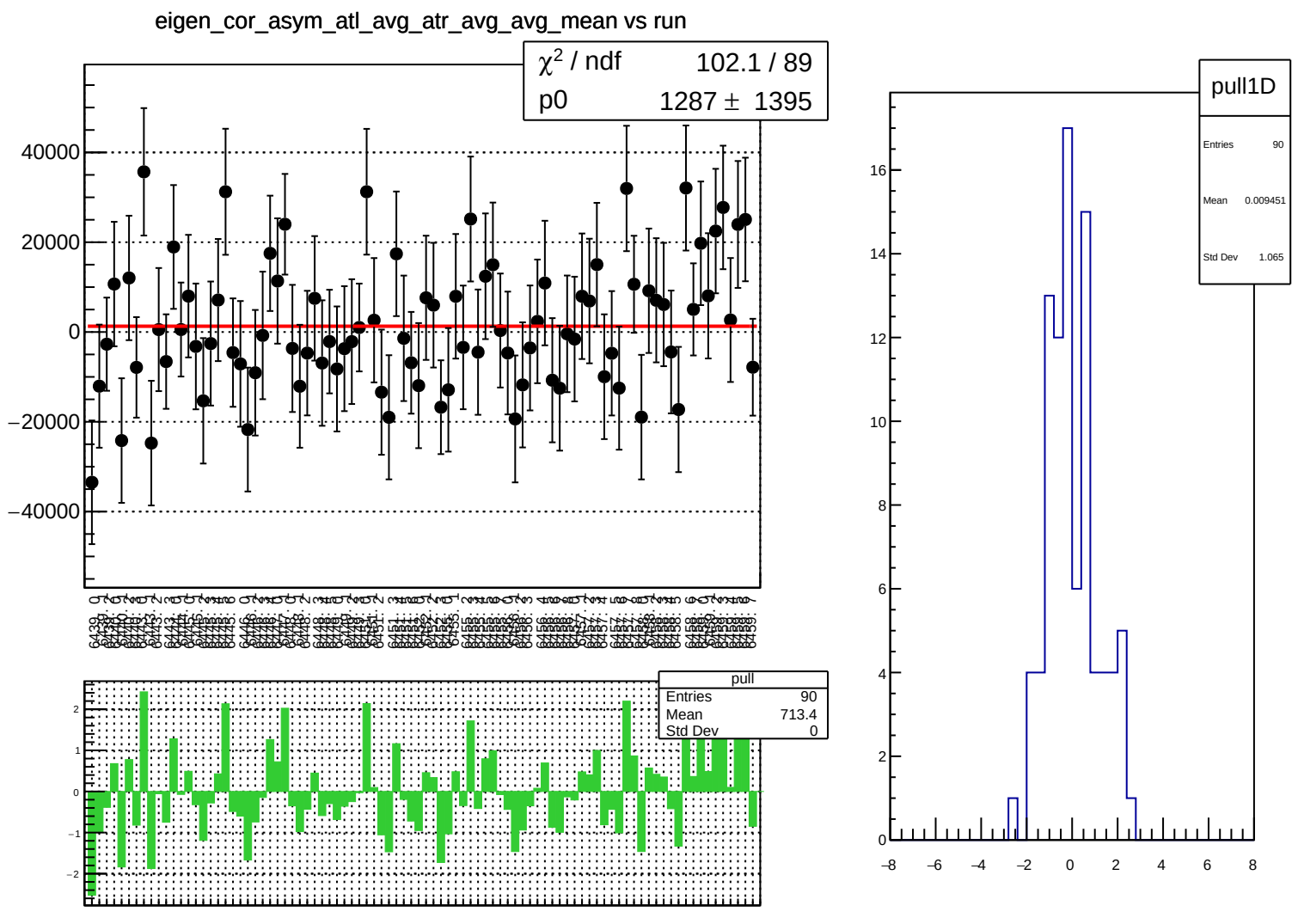

pull1D
Entries 90
Mean 0.009451
Std Dev 1.065
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

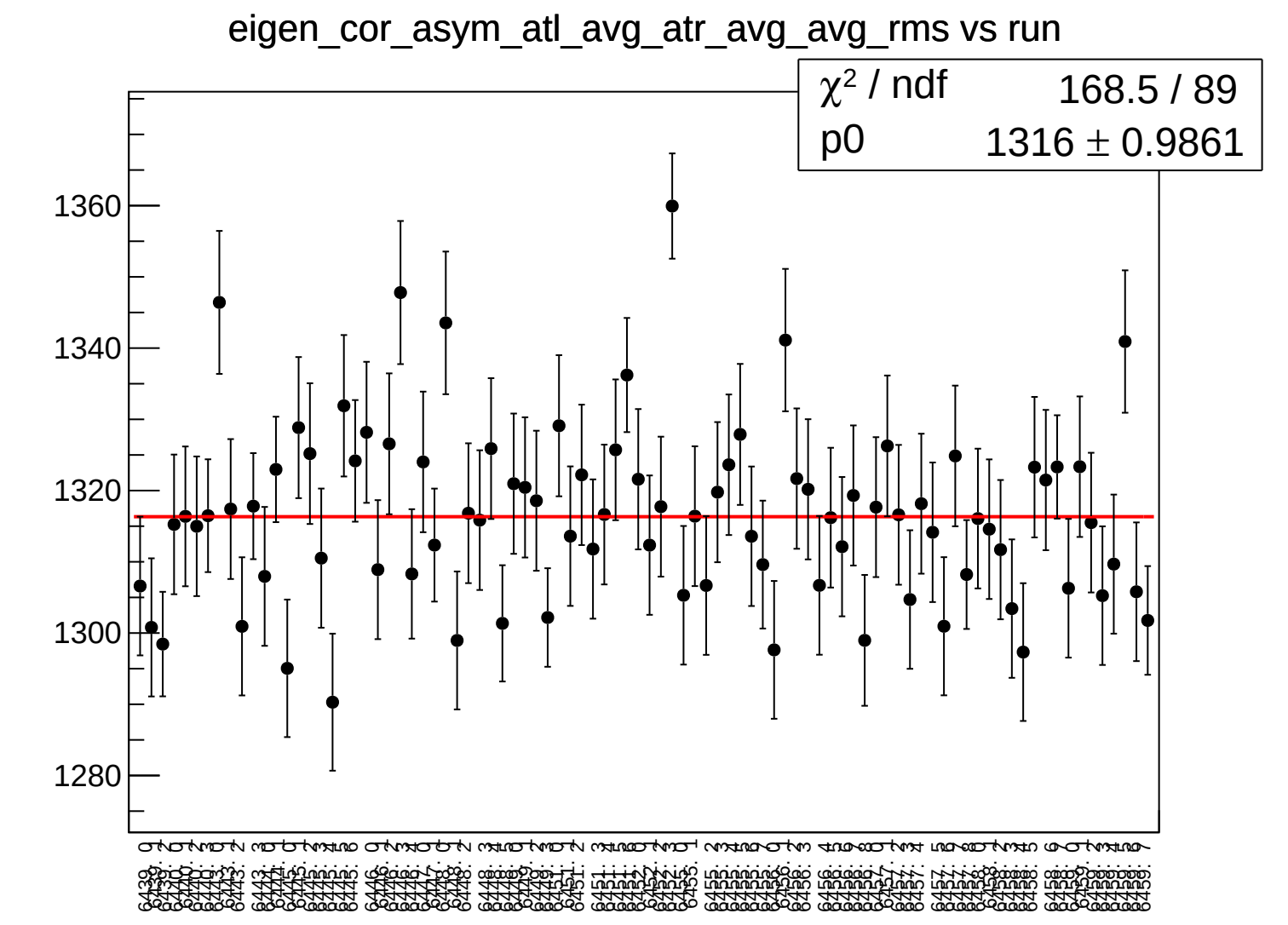

cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 168.5 / 89
p0 1316 ± 0.9861
1360
1340
1320
1300
1280

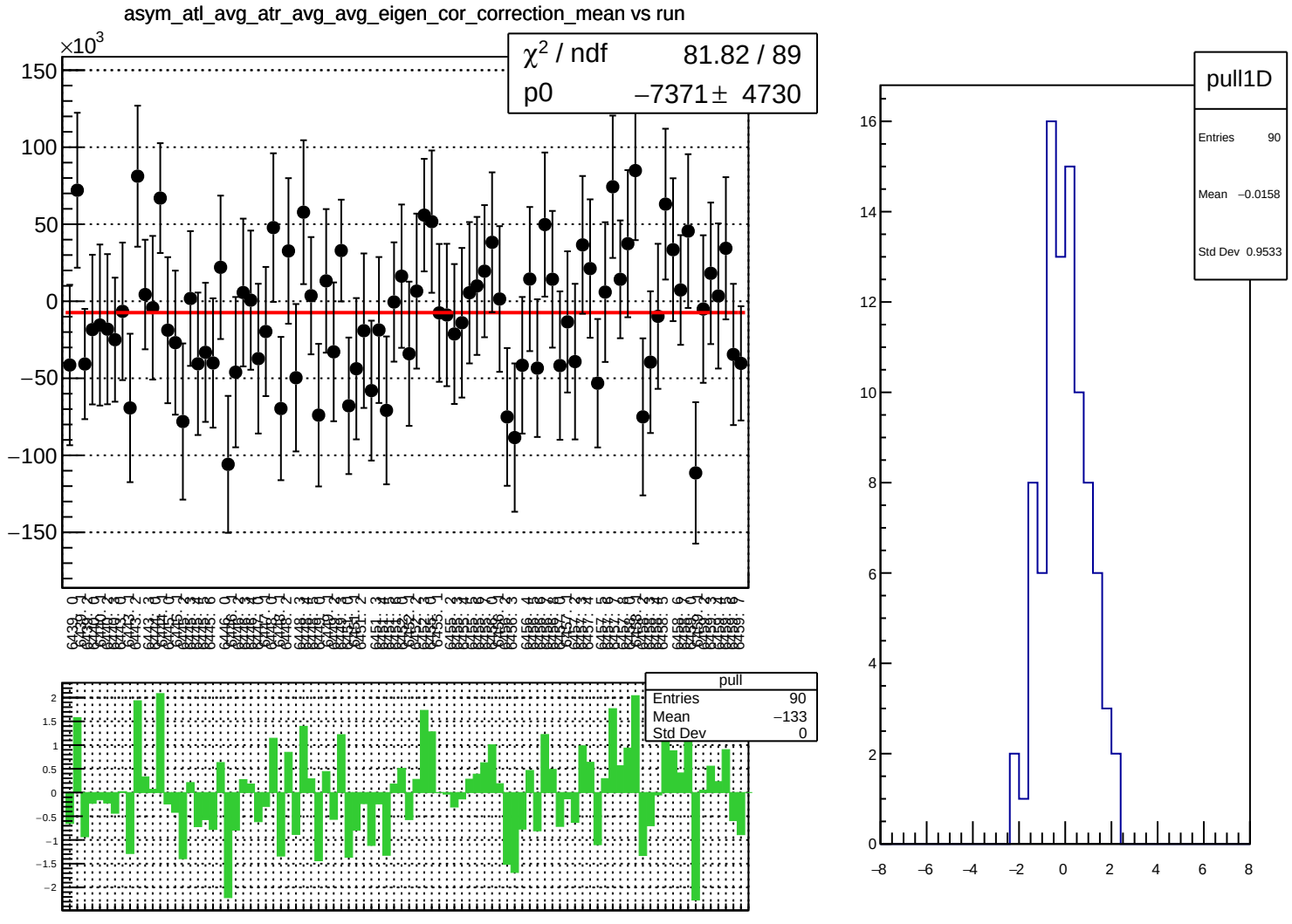

asym_atl_avg_atr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 81.82 / 89
p0 −7371 ± 4730
150
100
50
0
−50
−100
−150
pull
Entries 90
Mean −133
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

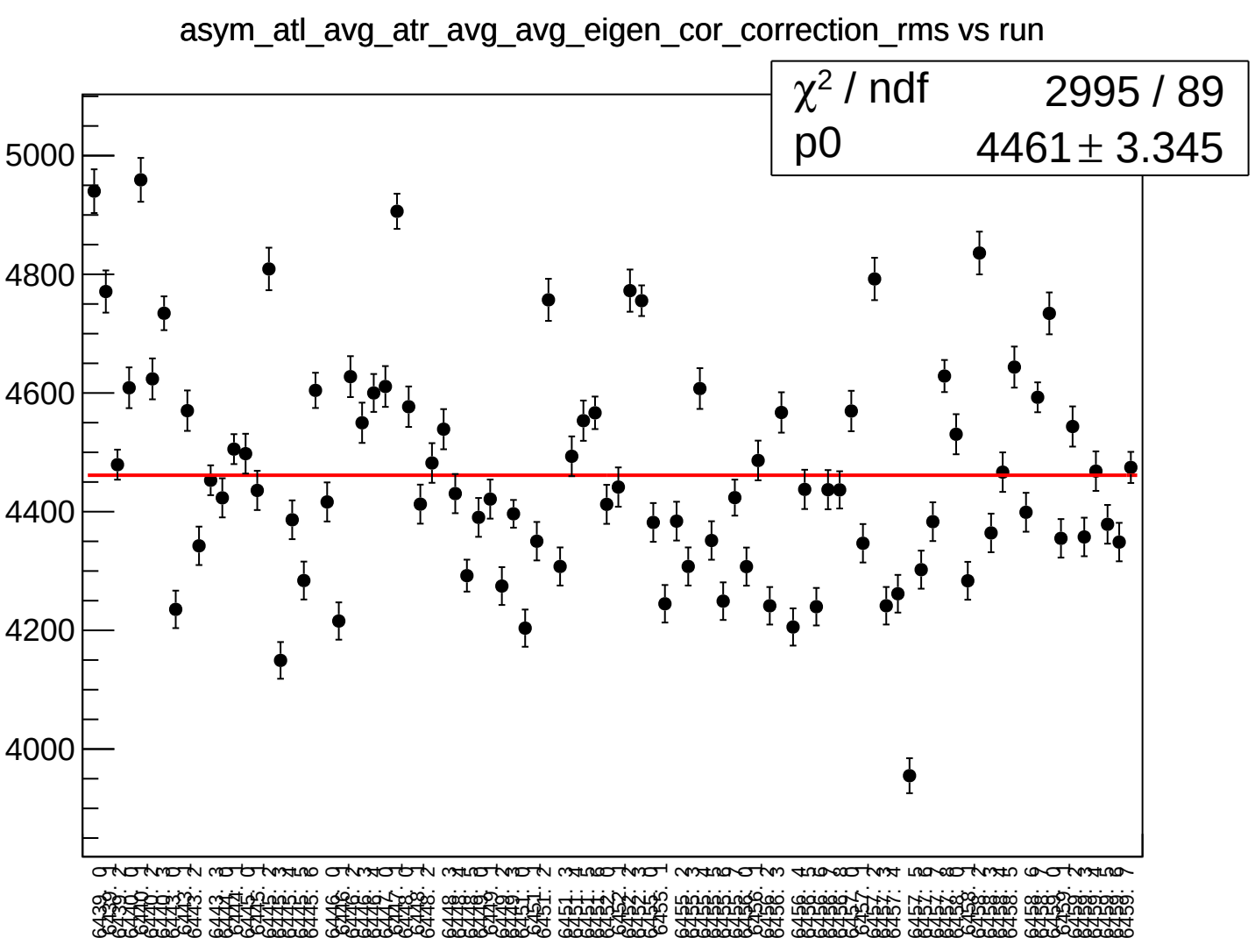

pull1D
Entries 90
Mean −0.0158
Std Dev 0.9533
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

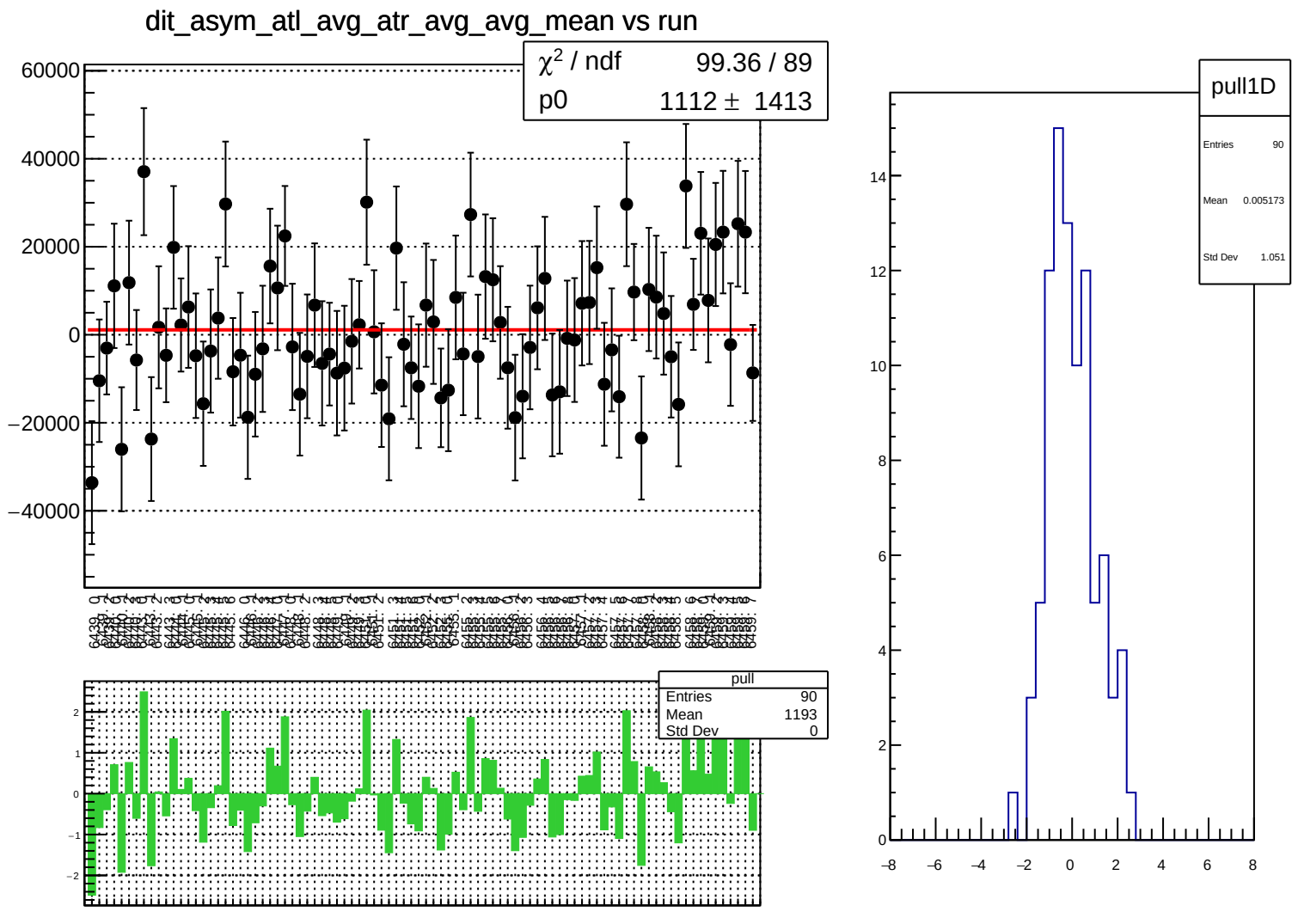

asym_atl_avg_atr_avg_avg_cor_correction_rms vs run
χ² / ndf 2995 / 89
p0 4461 ± 3.345
5000
4800
4600
4400
4200
4000

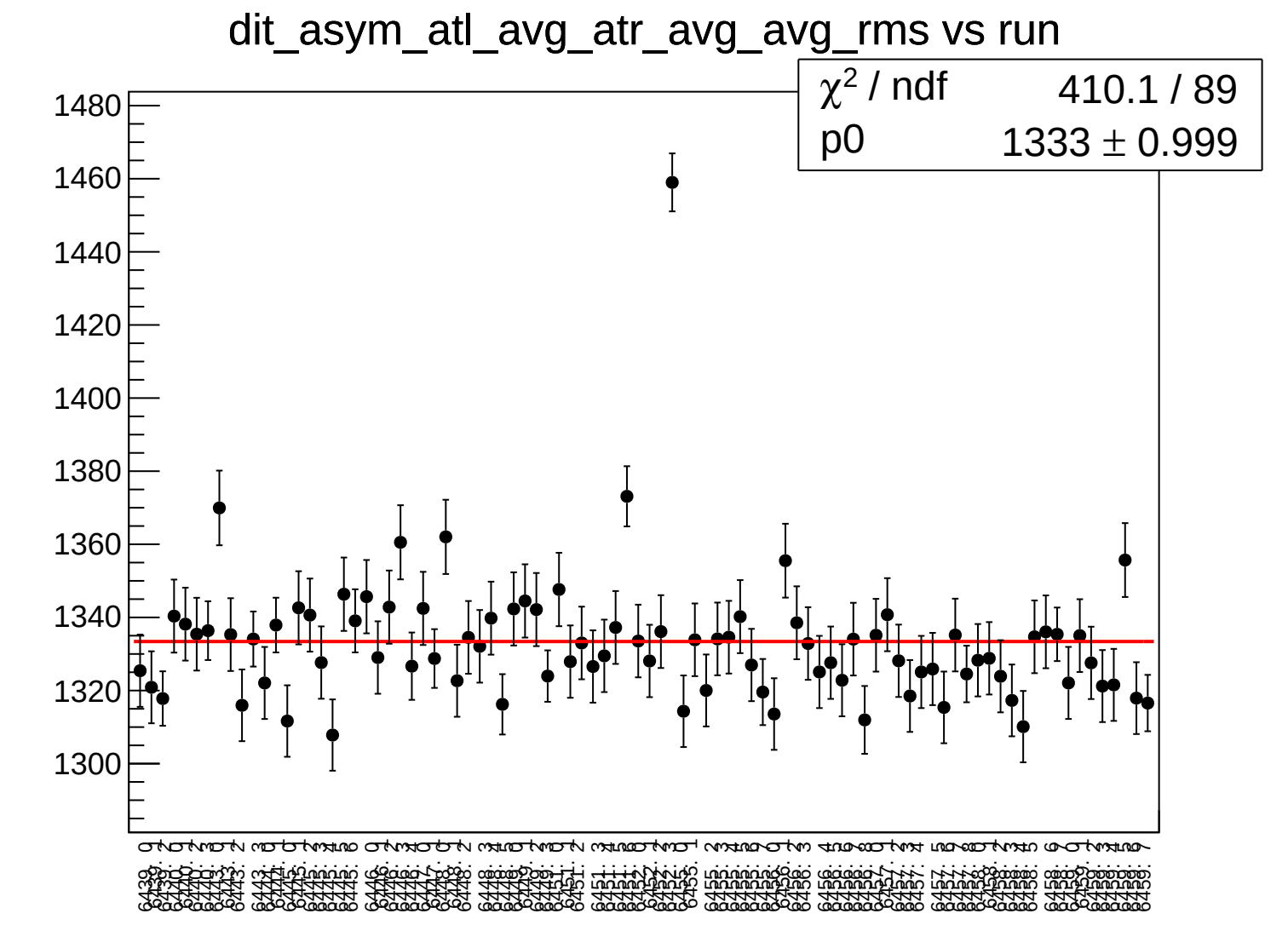

eigen_cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 102.1 / 89
p0 1287 ± 1395
40000
20000
0
−20000
−40000
pull
Entries 90
Mean 713.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 90
Mean 0.009451
Std Dev 1.065
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

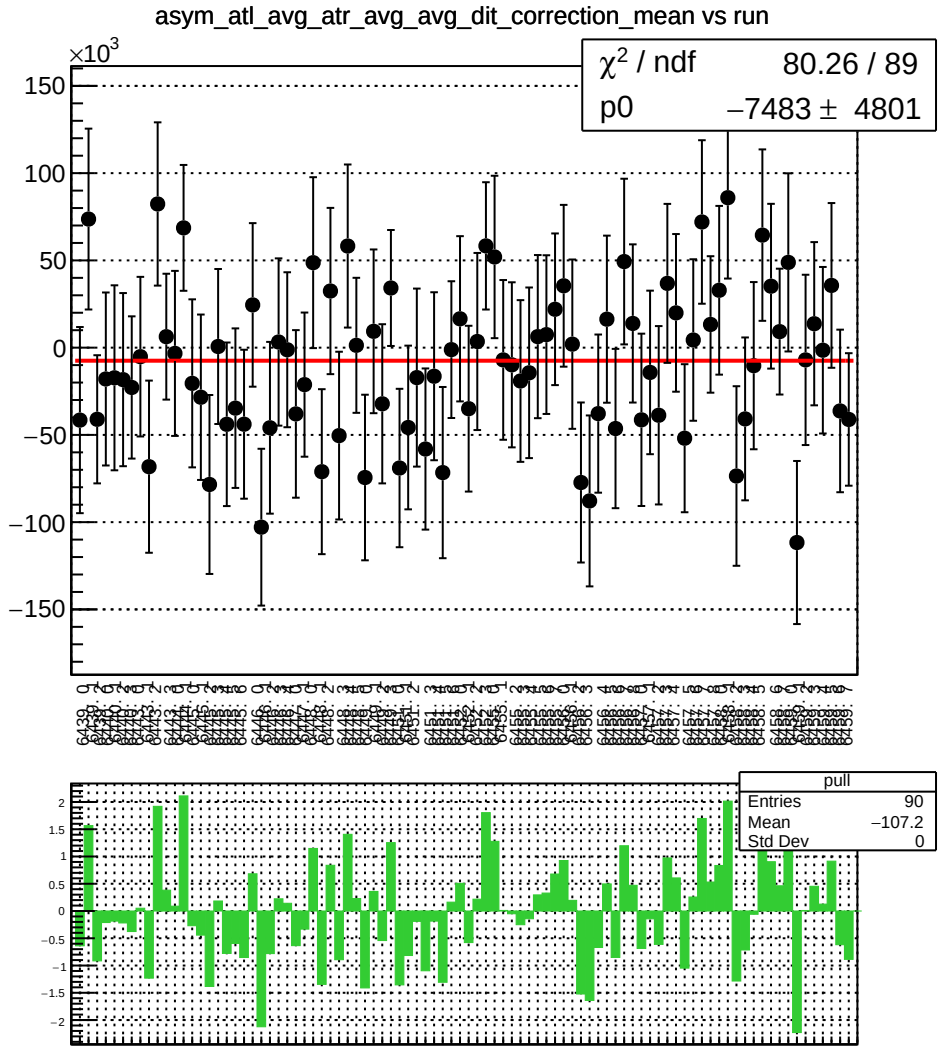

eigen_cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 168.5 / 89
p0 1316 ± 0.9861
1360
1340
1320
1300
1280

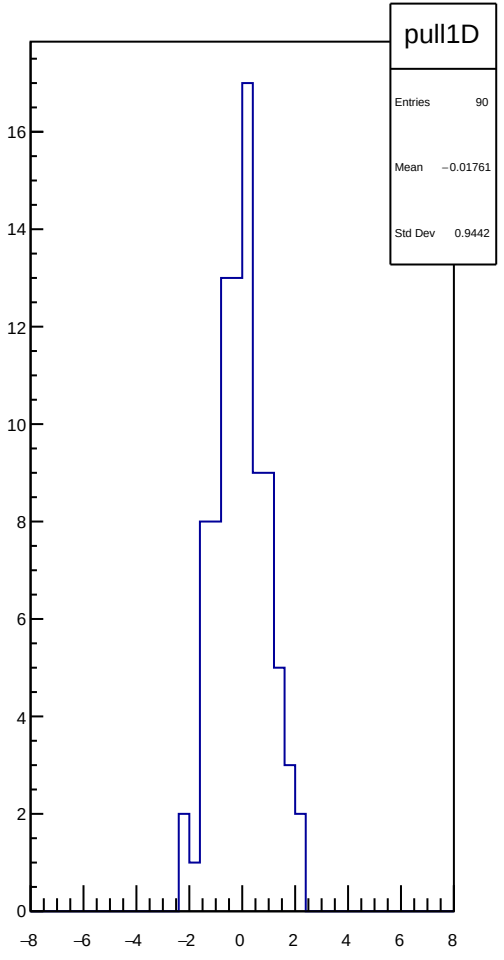

asym_atl_avg_atr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 81.82 / 89
p0 −7371 ± 4730
150
100
50
0
−50
−100
−150
pull
Entries 90
Mean −133
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 90
Mean −0.0158
Std Dev 0.9533
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

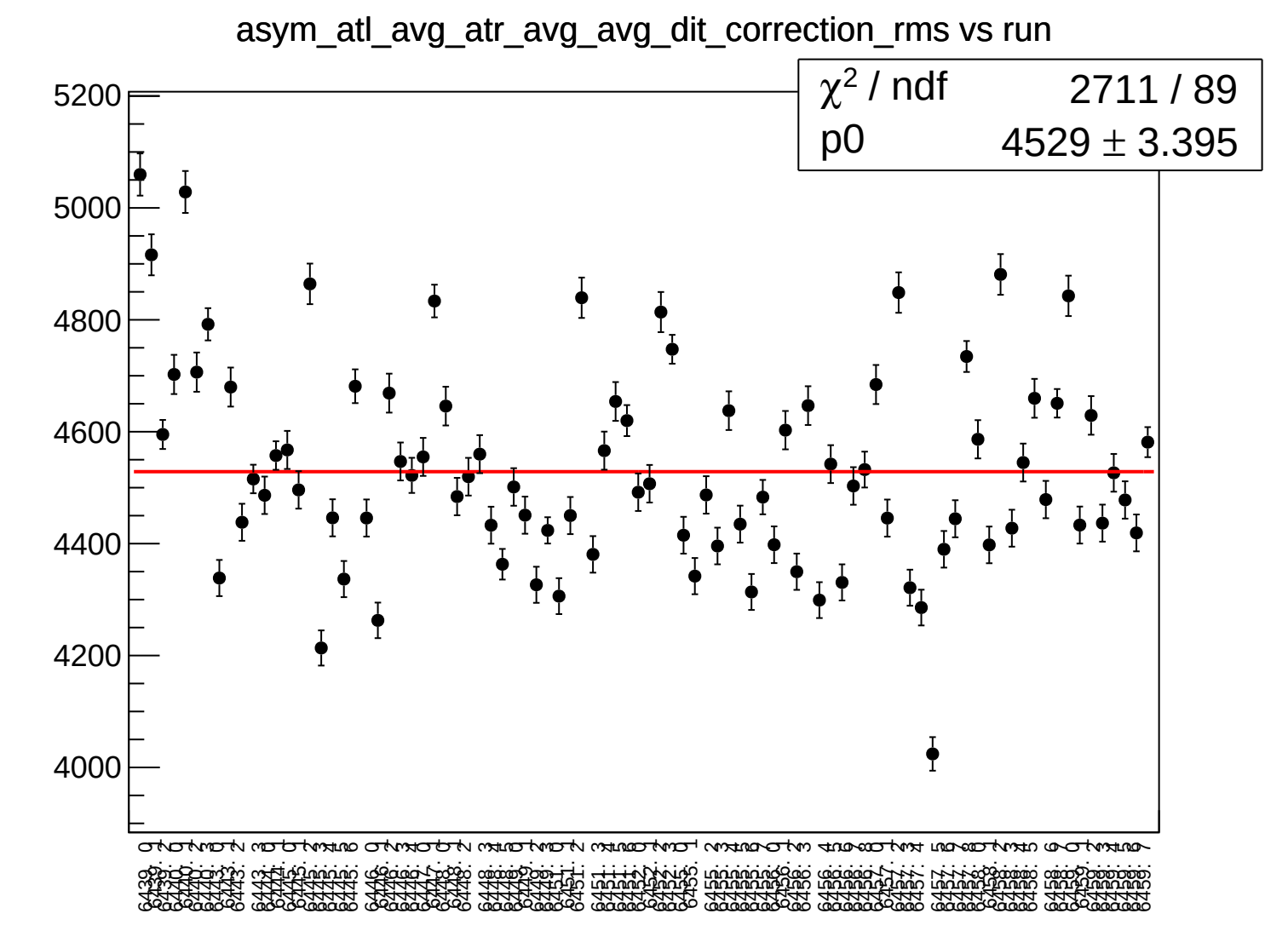

asym_atl_avg_atr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 2995 / 89
p0 4461 ± 3.345
5000
4800
4600
4400
4200
4000

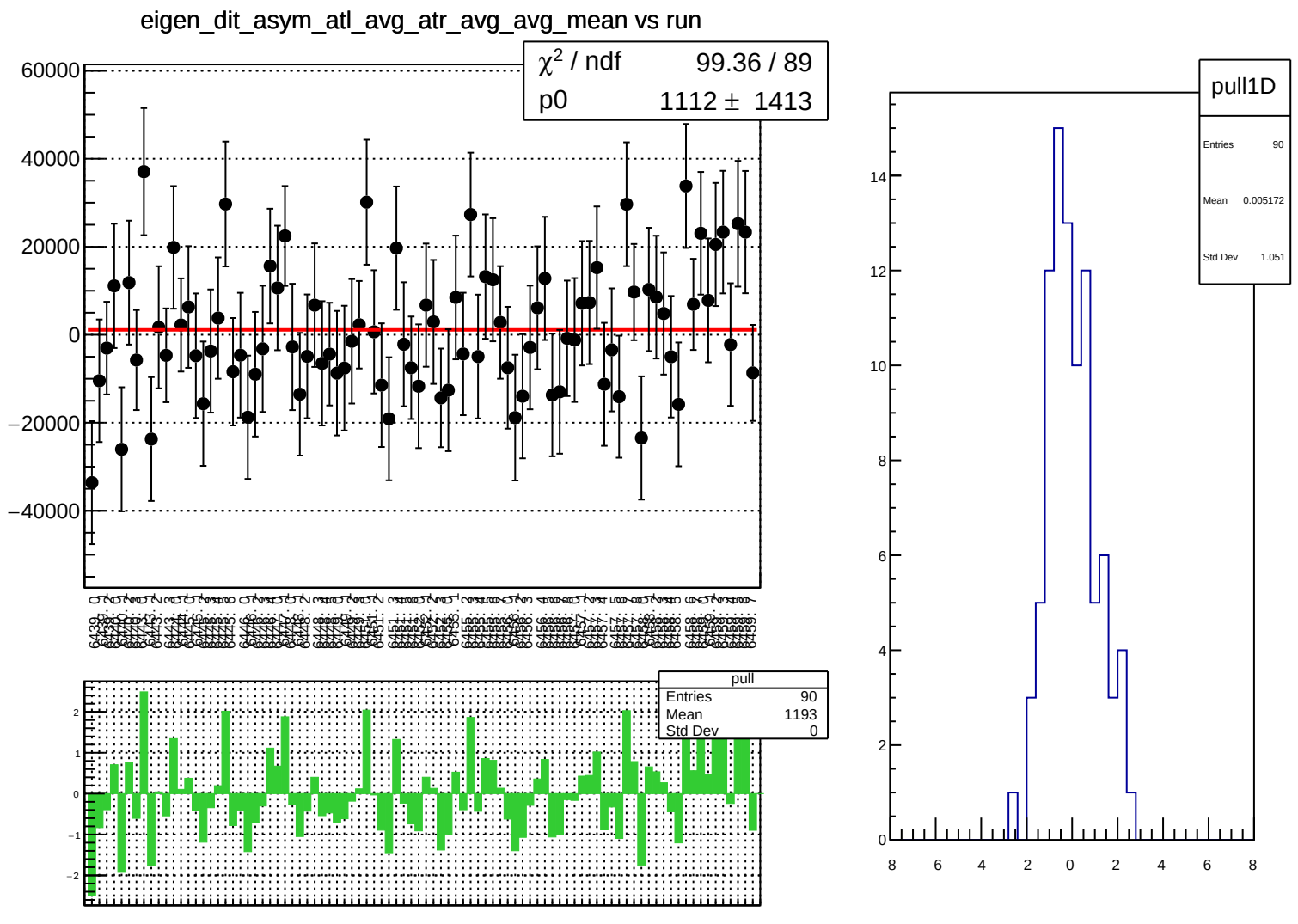

dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 99.36 / 89
p0 1112 ± 1413
60000
40000
20000
0
−20000
−40000
pull
Entries 90
Mean 1193
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 90
Mean 0.005173
Std Dev 1.051
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

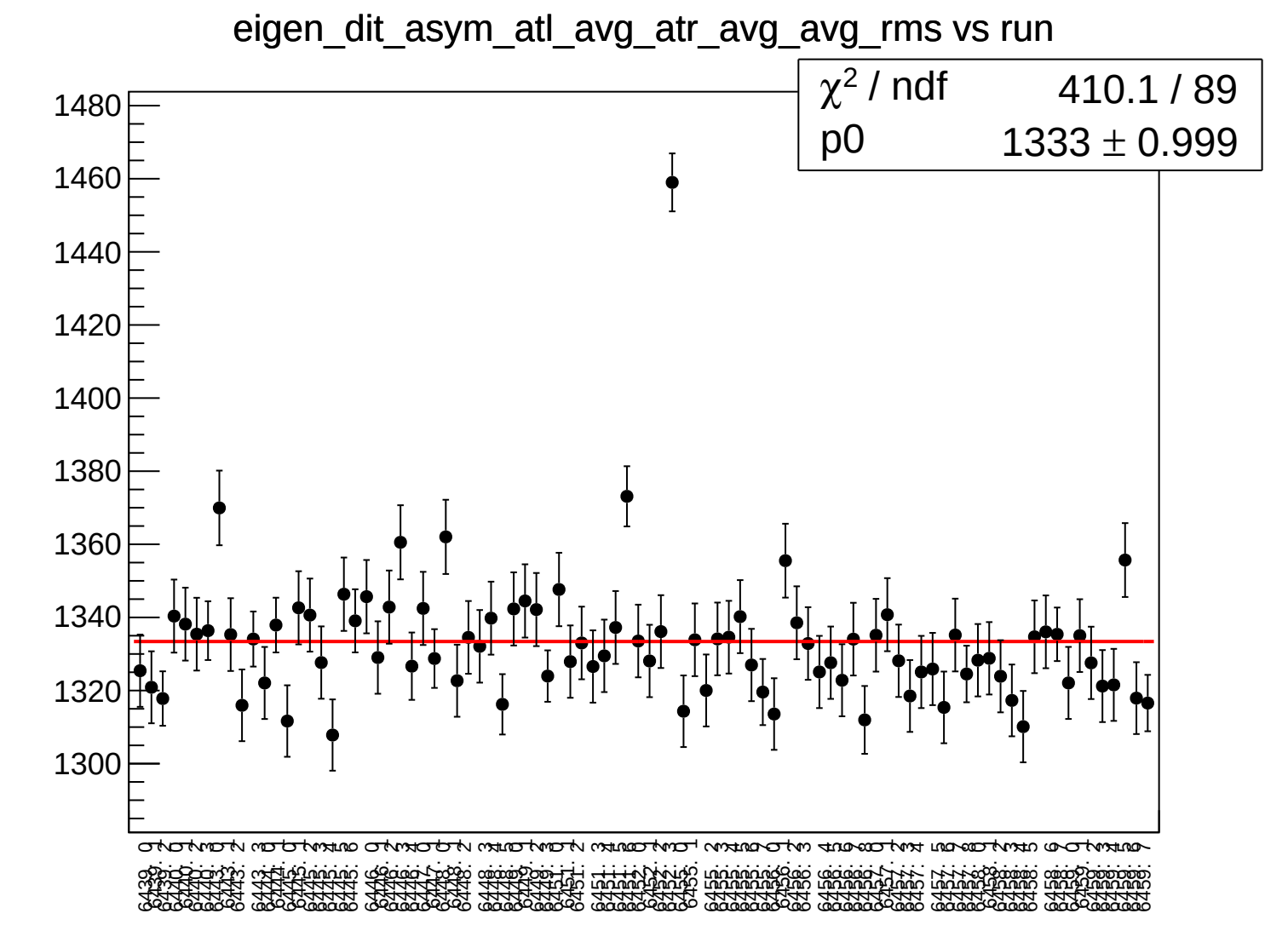

dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 410.1 / 89
p0 1333 ± 0.999
1480
1460
1440
1420
1400
1380
1360
1340
1320
1300

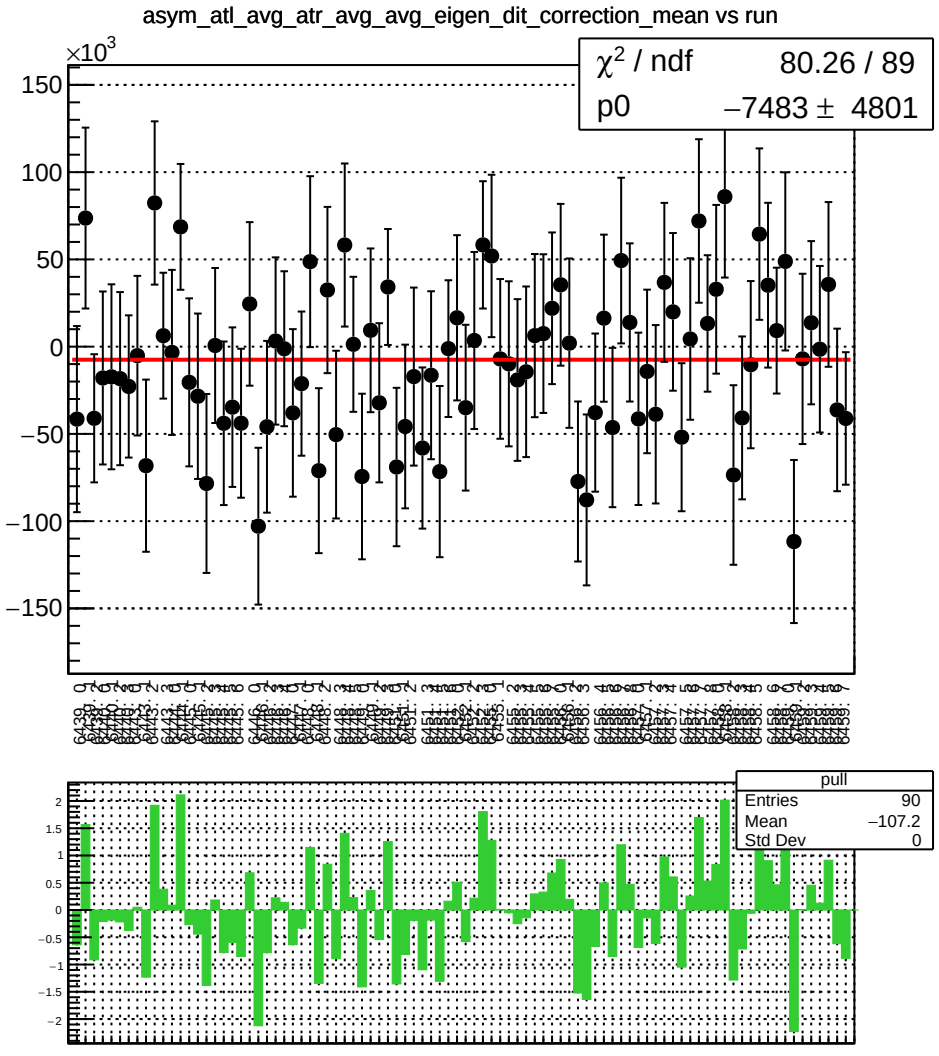

asym_atl_avg_atr_avg_avg_dit_correction_mean vs run
χ² / ndf 80.26 / 89
p0 −7483 ± 4801
pull
Entries 90
Mean −107.2
Std Dev 0

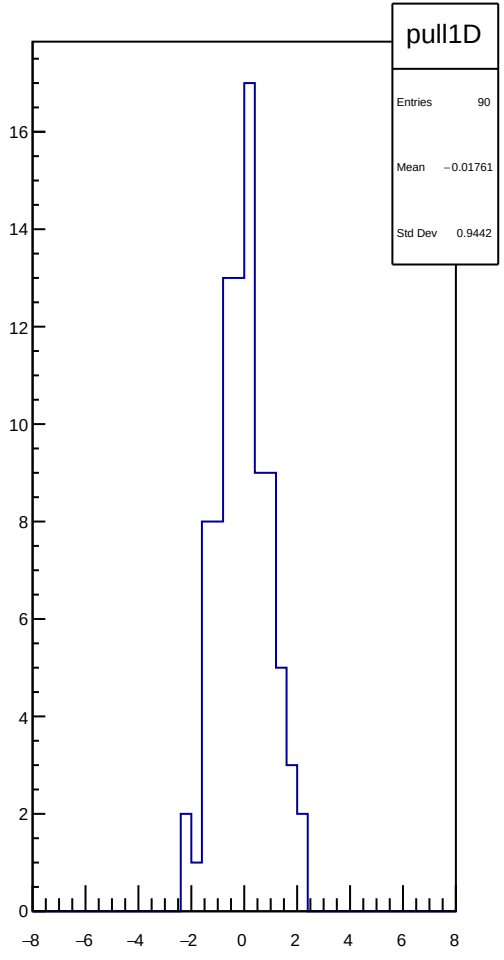

pull1D
Entries 90
Mean −0.01761
Std Dev 0.9442

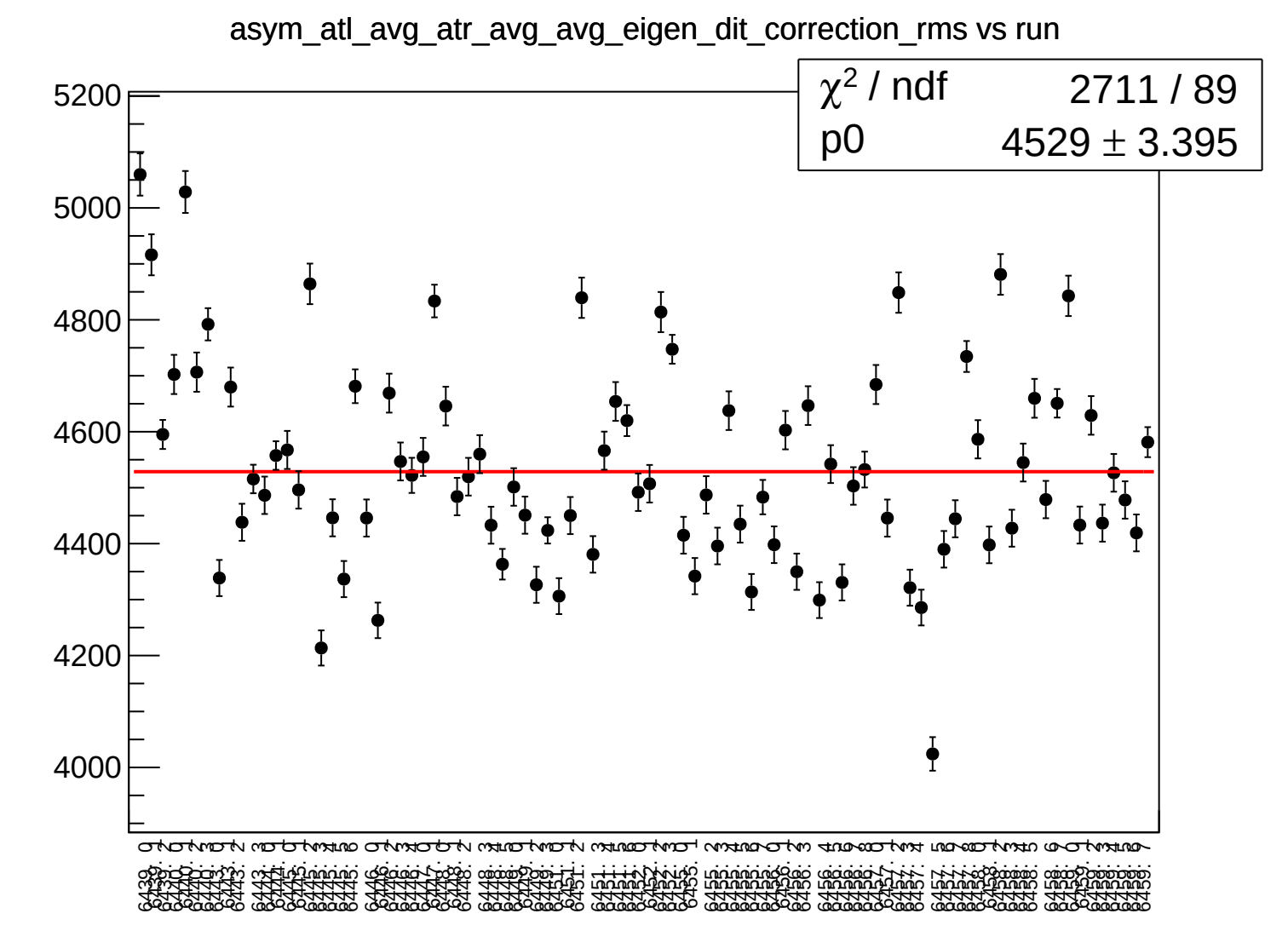

asym_atl_avg_atr_avg_avg_dit_correction_rms vs run
χ² / ndf 2711 / 89
p0 4529 ± 3.395
5200
5000
4800
4600
4400
4200
4000

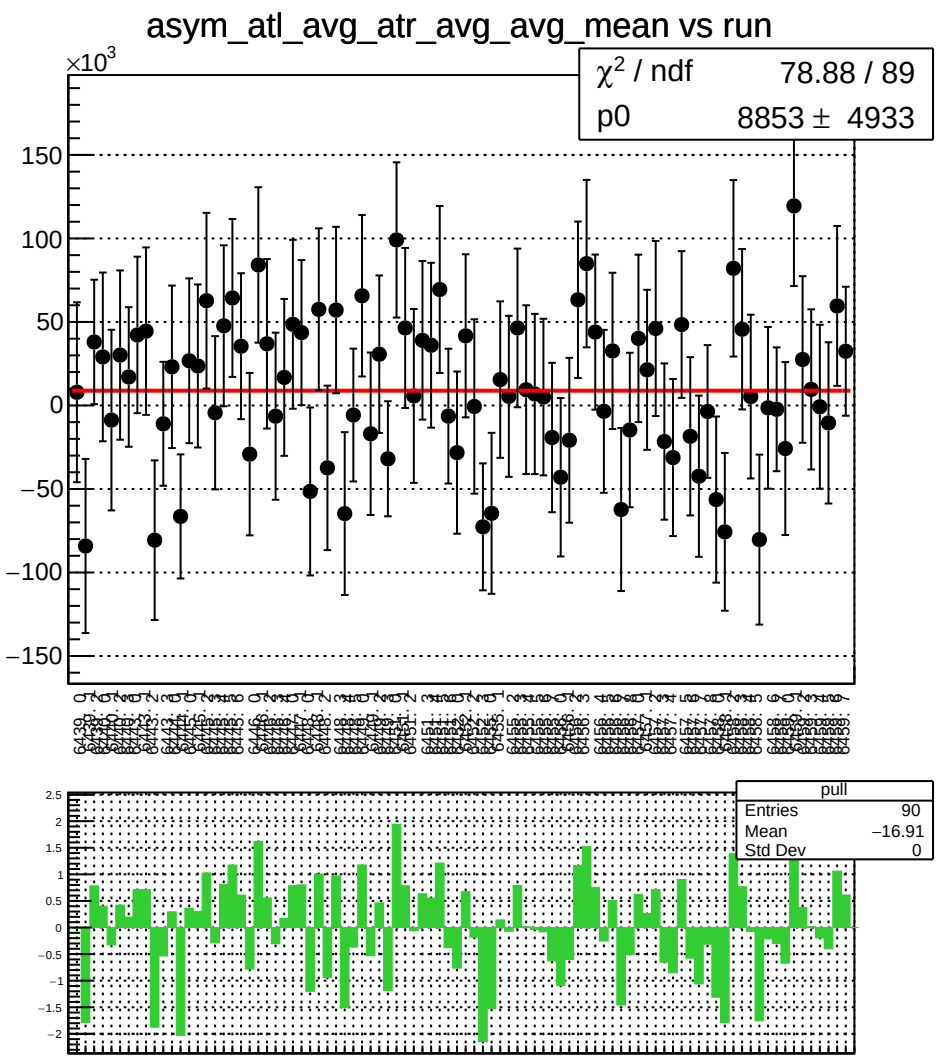

eigen_dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 99.36 / 89
p0 1112 ± 1413
60000
40000
20000
0
−20000
−40000
pull
Entries 90
Mean 1193
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 90
Mean 0.005172
Std Dev 1.051
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

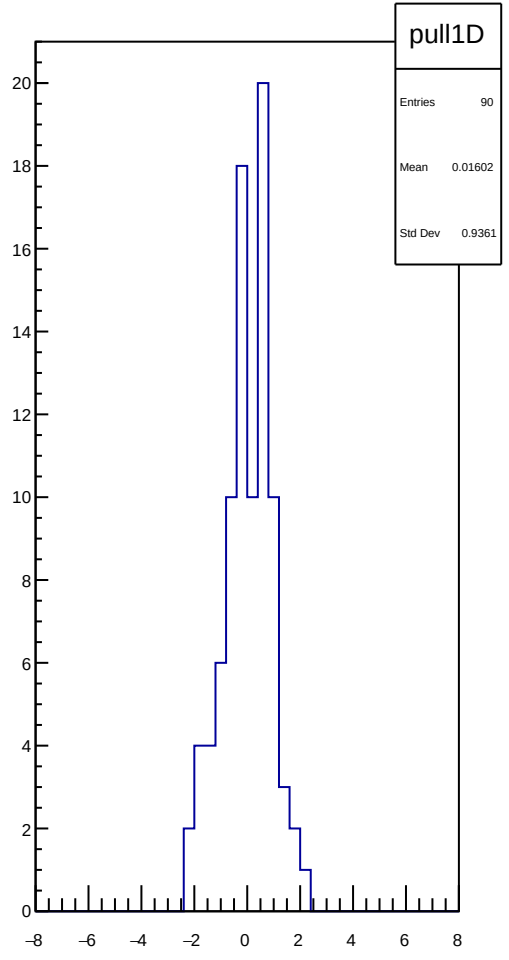

eigen_dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 410.1 / 89
p0 1333 ± 0.999
1480
1460
1440
1420
1400
1380
1360
1340
1320
1300

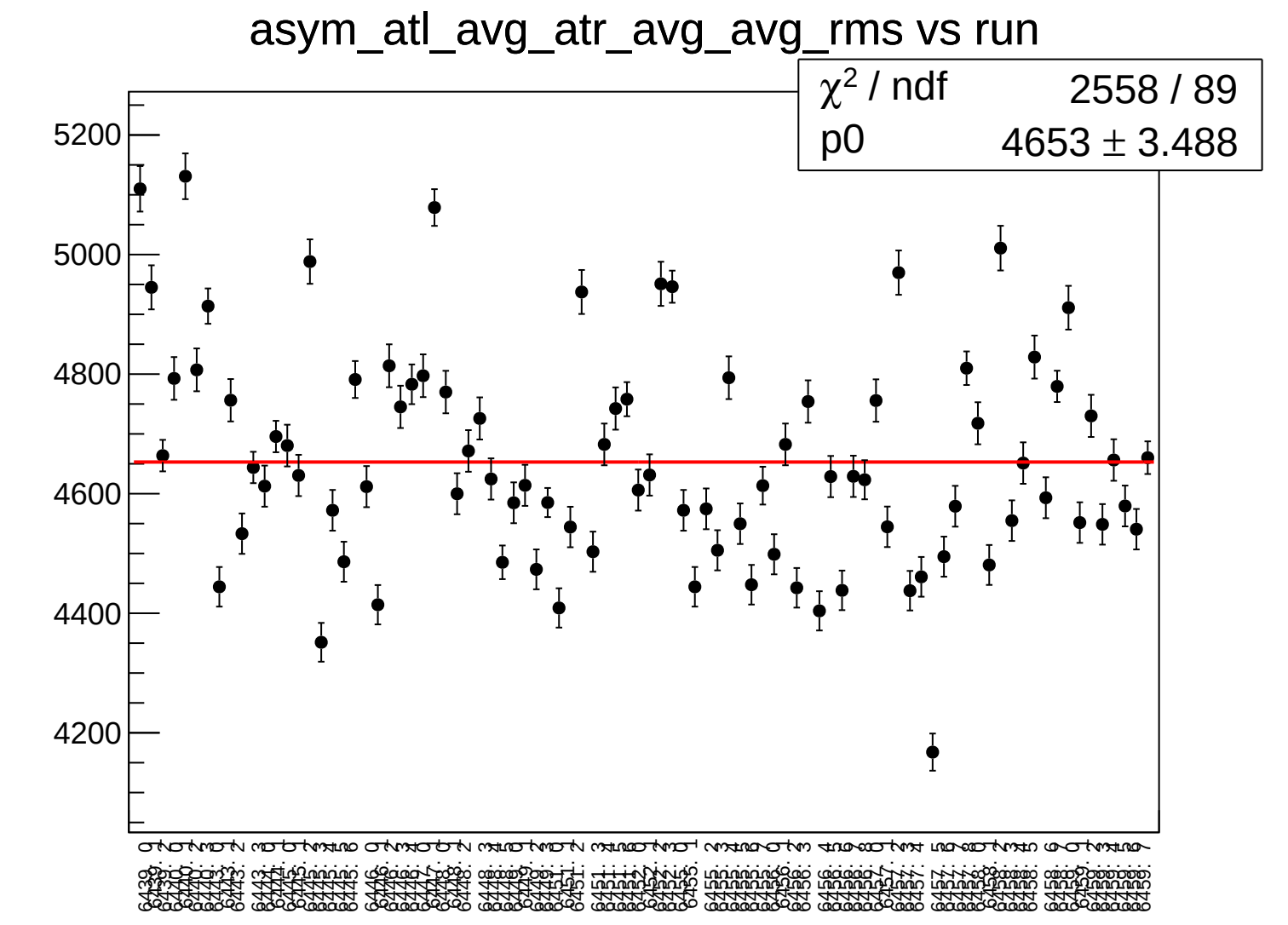

asym_atl_avg_atr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 80.26 / 89
p0 −7483 ± 4801
150
100
50
0
−50
−100
−150
pull
Entries 90
Mean −107.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

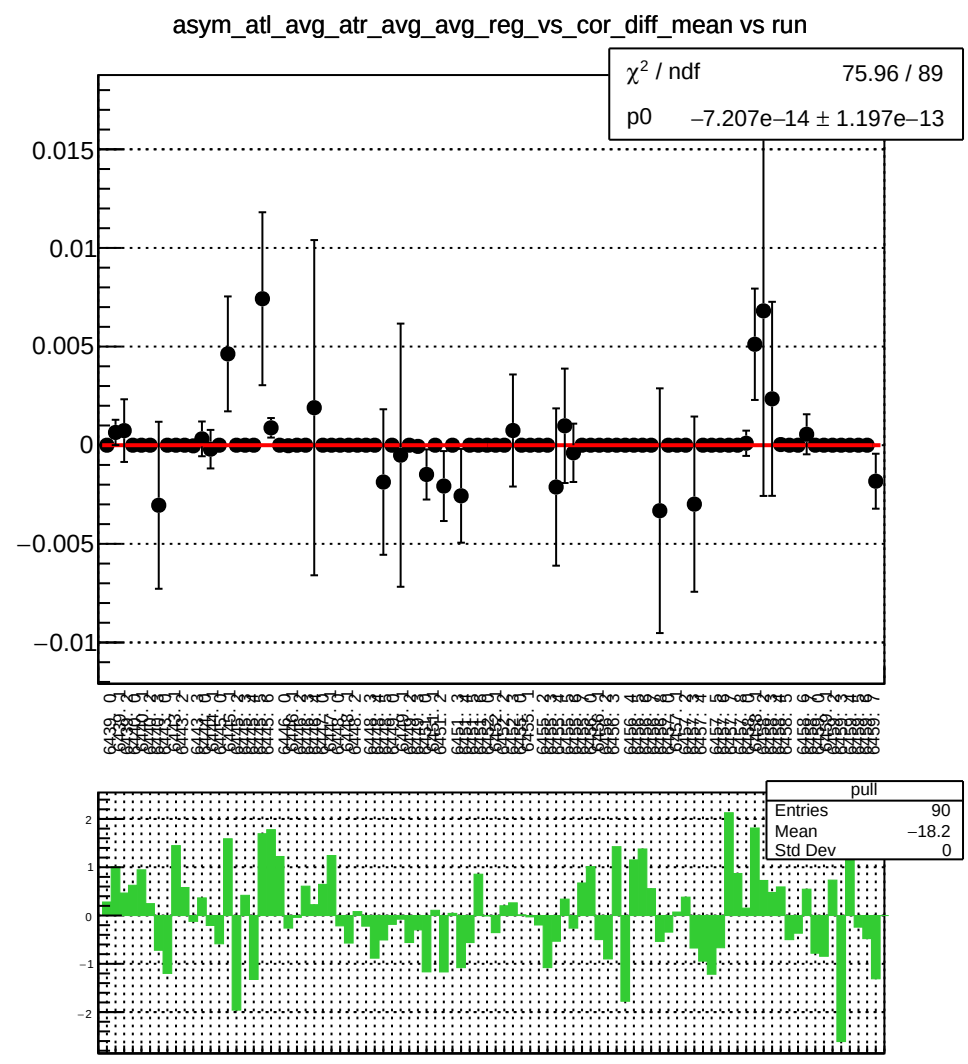

pull1D
Entries 90
Mean −0.01761
Std Dev 0.9442
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

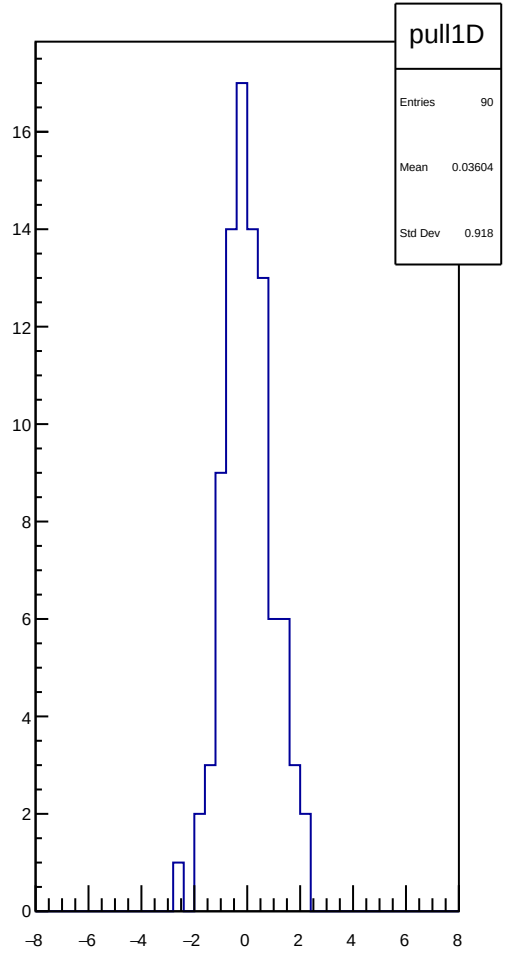

asym_atl_avg_atr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 2711 / 89
p0 4529 ± 3.395
5200
5000
4800
4600
4400
4200
4000

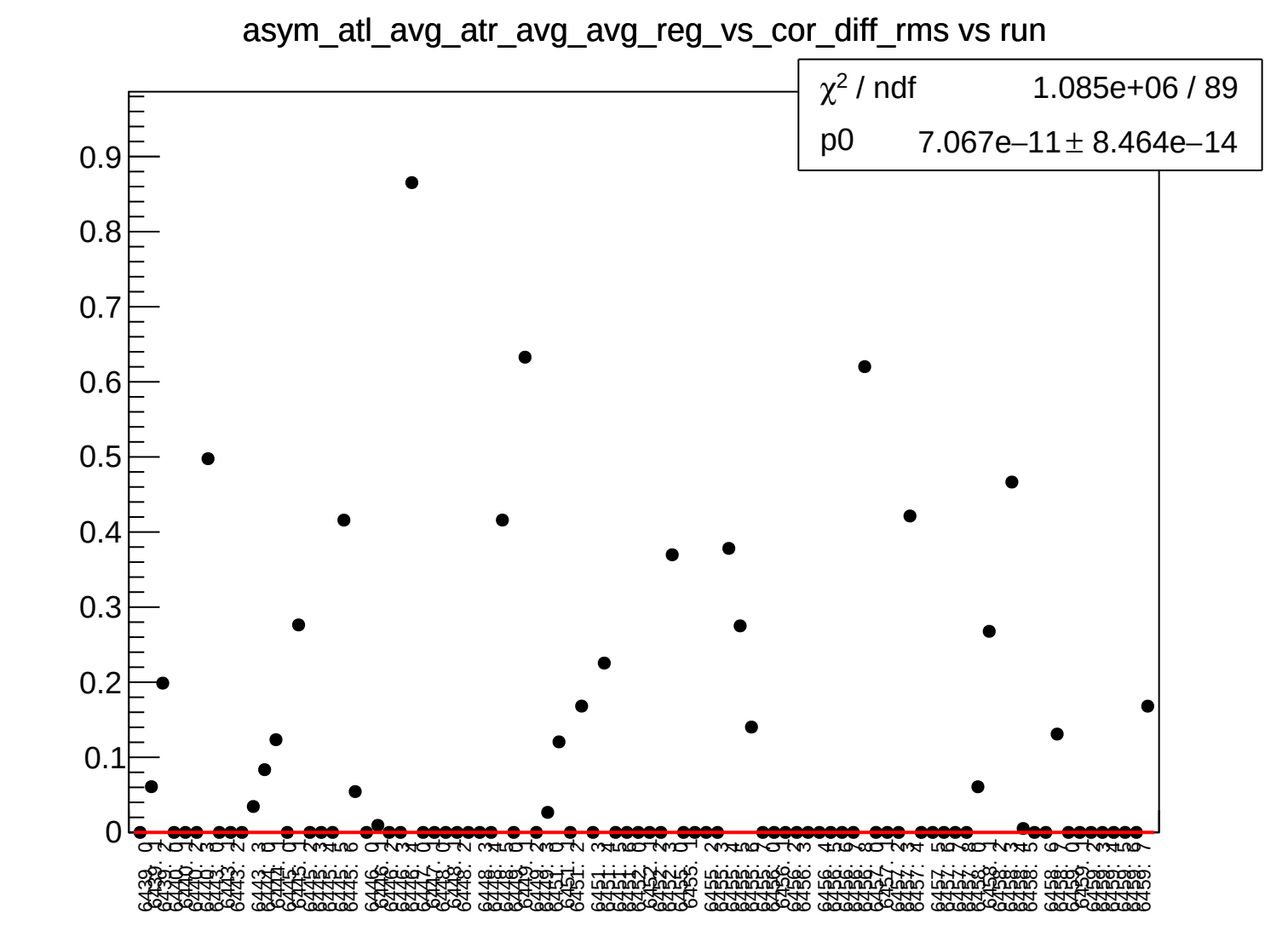

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ^2 / ndf 78.88 / 89
p0 8853 ± 4933
150
100
50
0
−50
−100
−150
pull
Entries 90
Mean −16.91
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

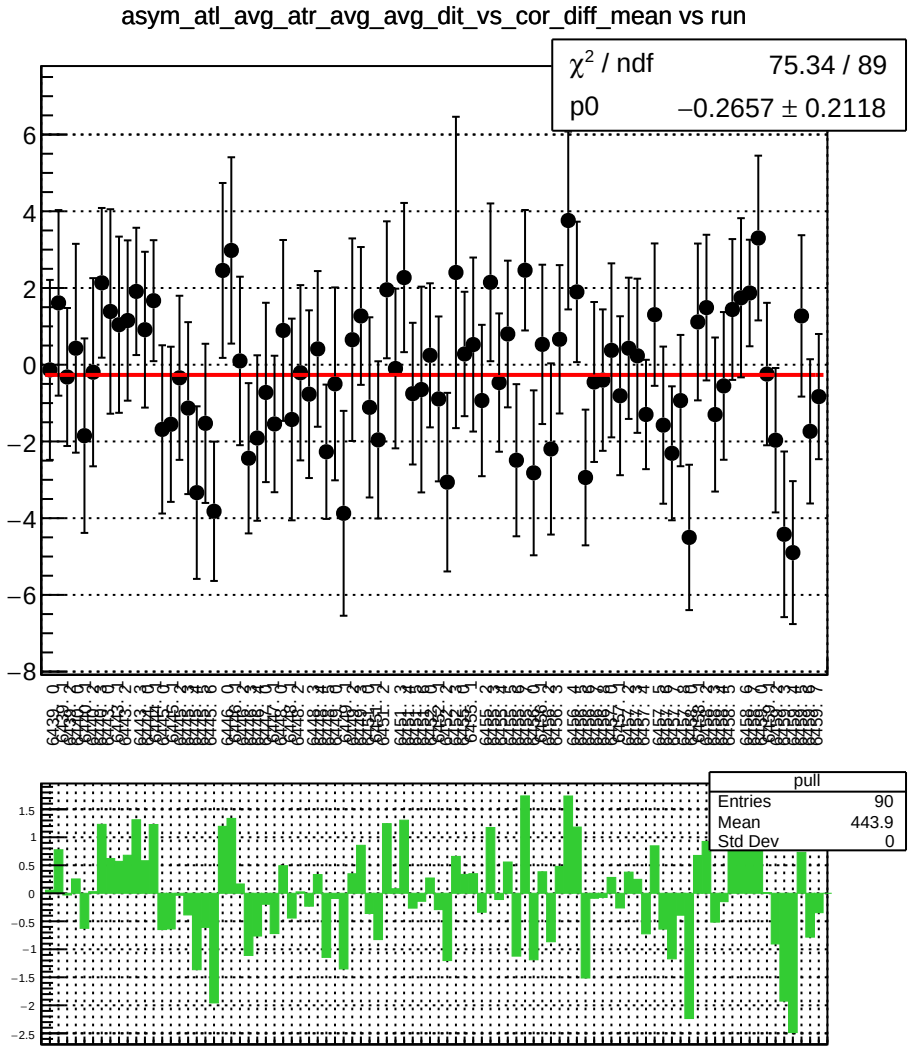

pull1D
Entries 90
Mean 0.01602
Std Dev 0.9361
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

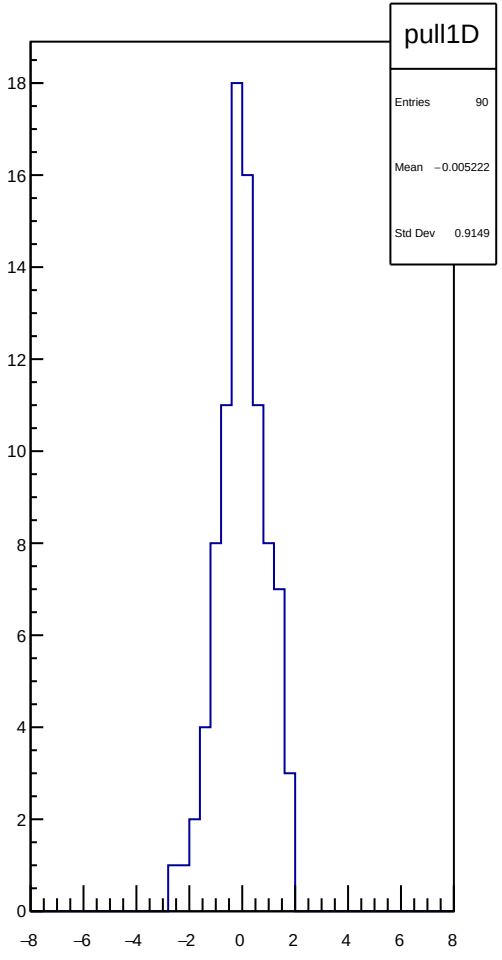

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 2558 / 89
p0 4653 ± 3.488
5200
5000
4800
4600
4400
4200

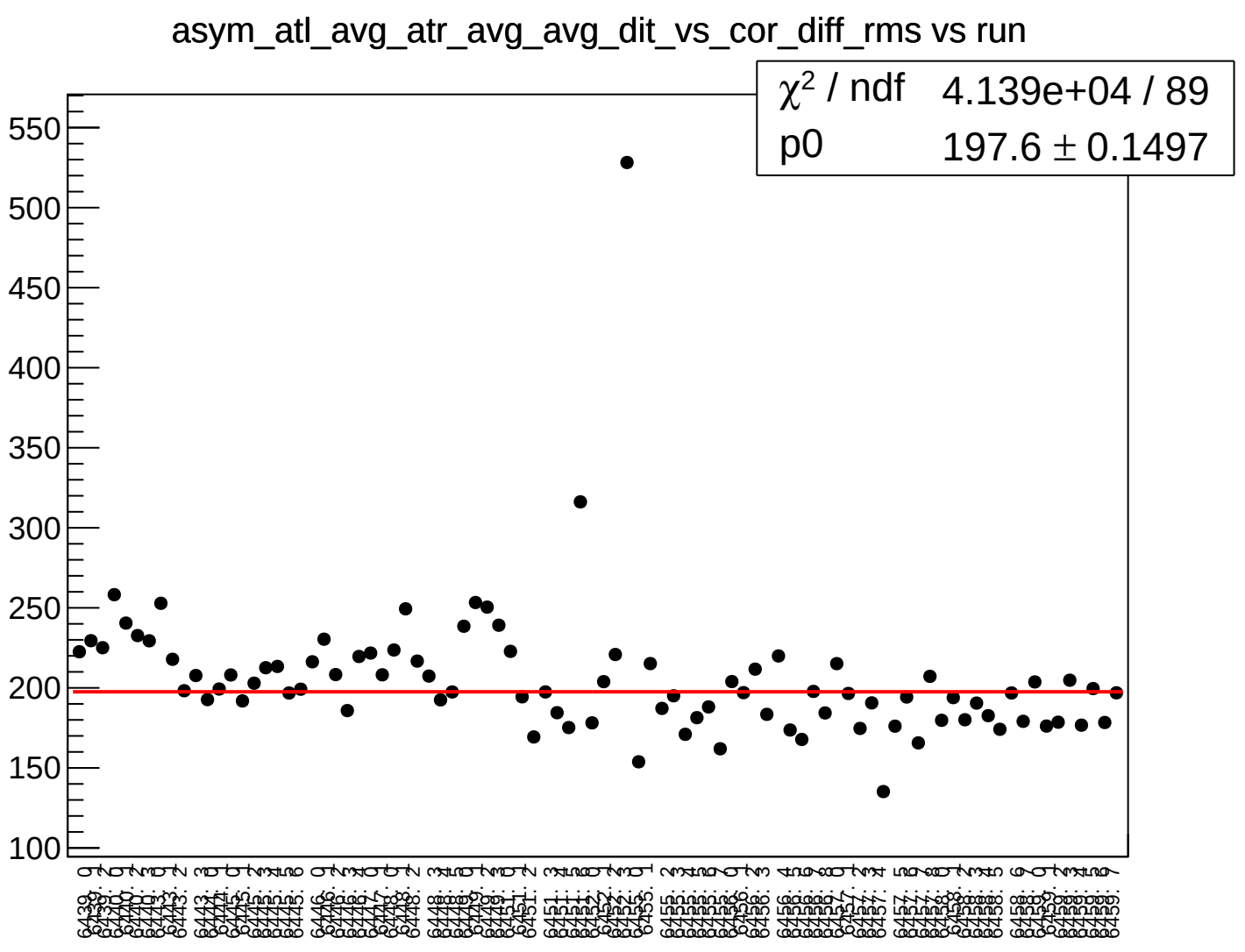

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 75.96 / 89
p0 −7.207e−14 ± 1.197e−13
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 90
Mean −18.2
Std Dev 0
2
1
0
−1
−2

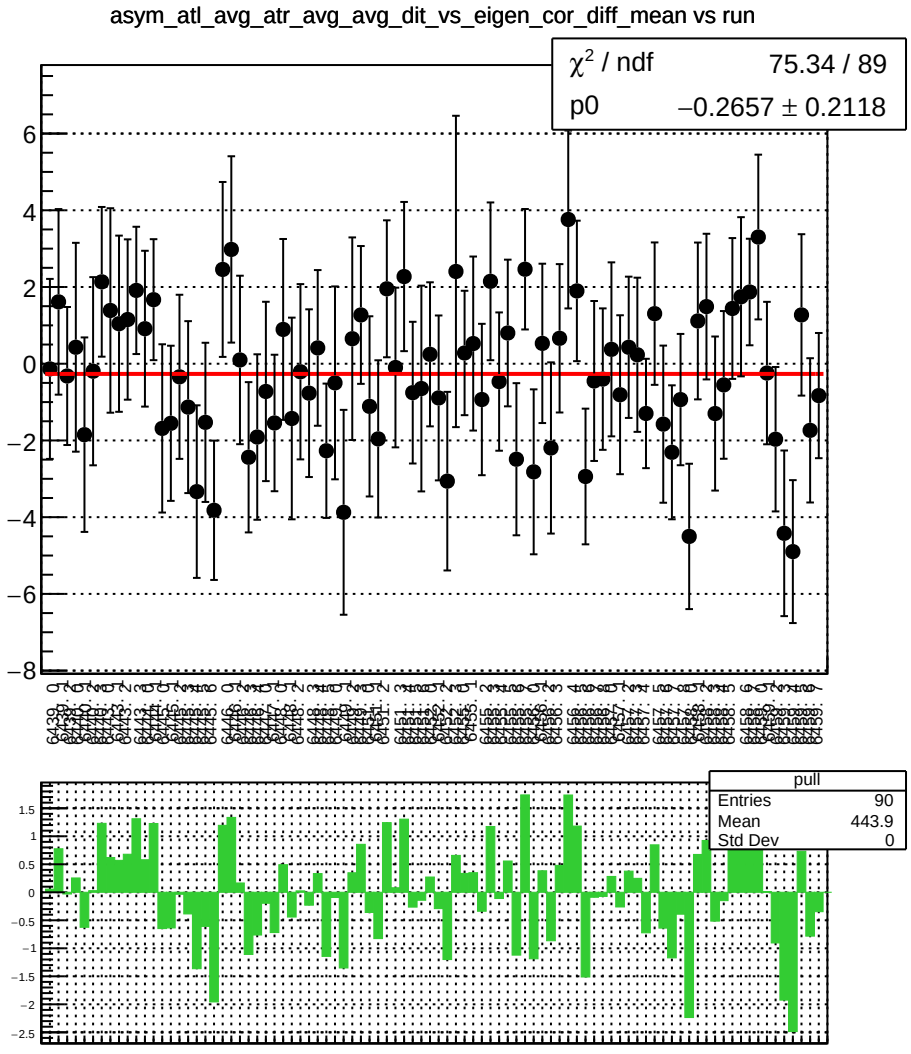

pull1D
Entries 90
Mean 0.03604
Std Dev 0.918
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

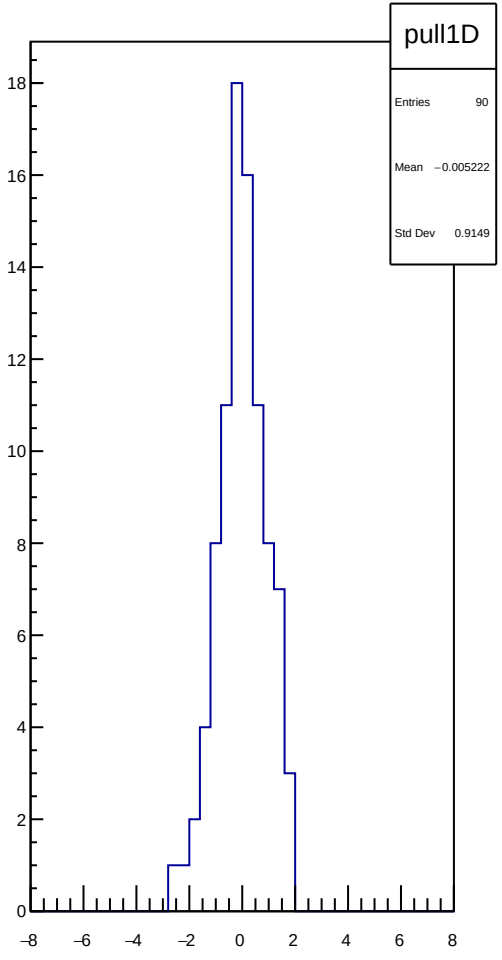

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.085e+06 / 89
p0 7.067e−11 ± 8.464e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

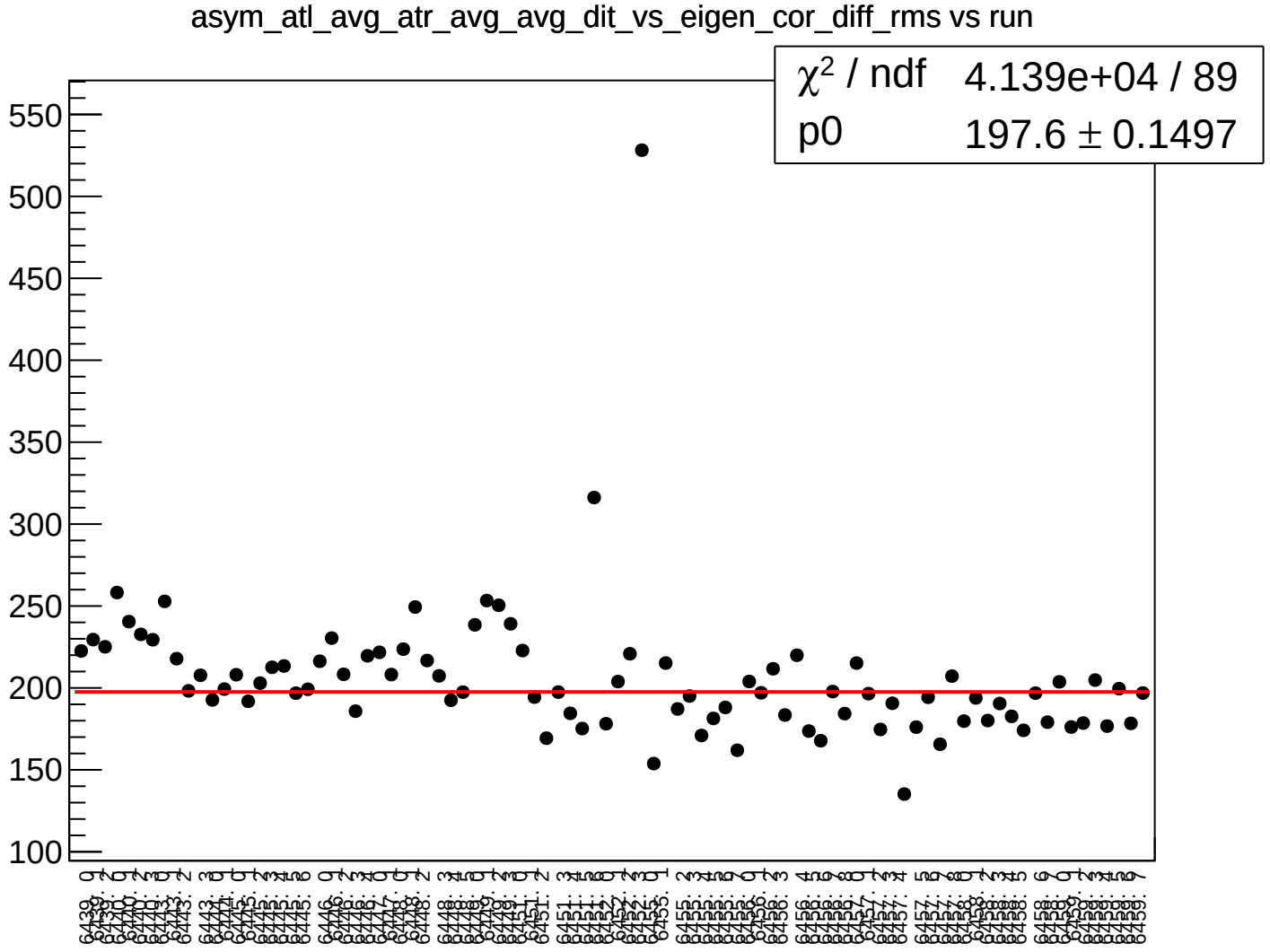

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 75.34 / 89
p0 −0.2657 ± 0.2118
pull
Entries 90
Mean 443.9
Std Dev 0

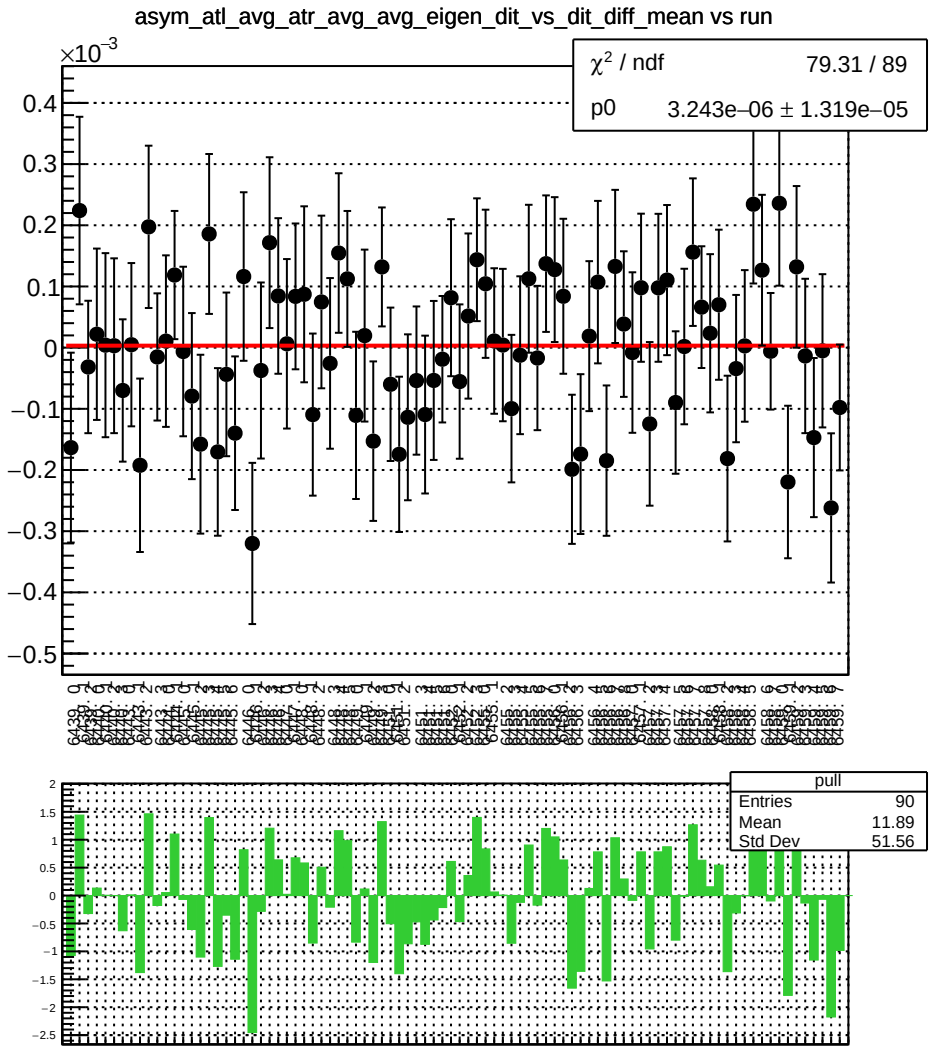

pull1D
Entries 90
Mean −0.005222
Std Dev 0.9149

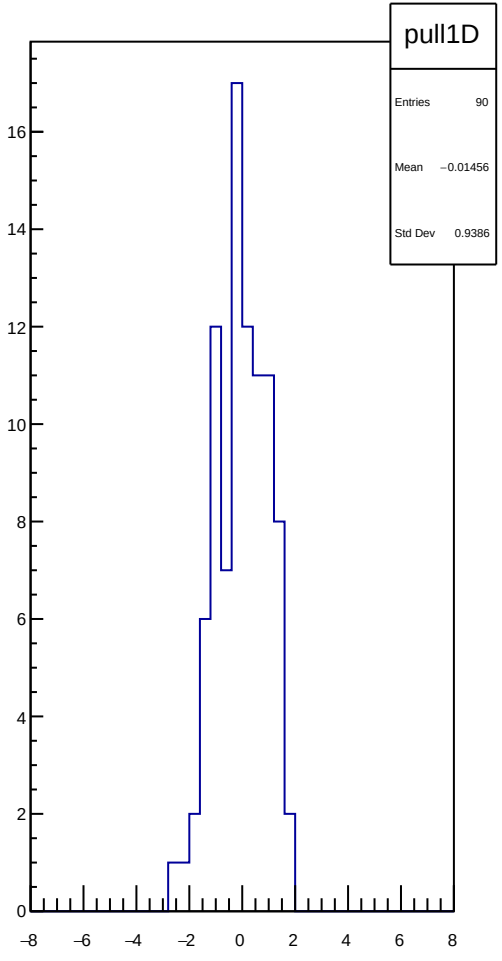

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.139e+04 / 89
p0 197.6 ± 0.1497
550
500
450
400
350
300
250
200
150
100

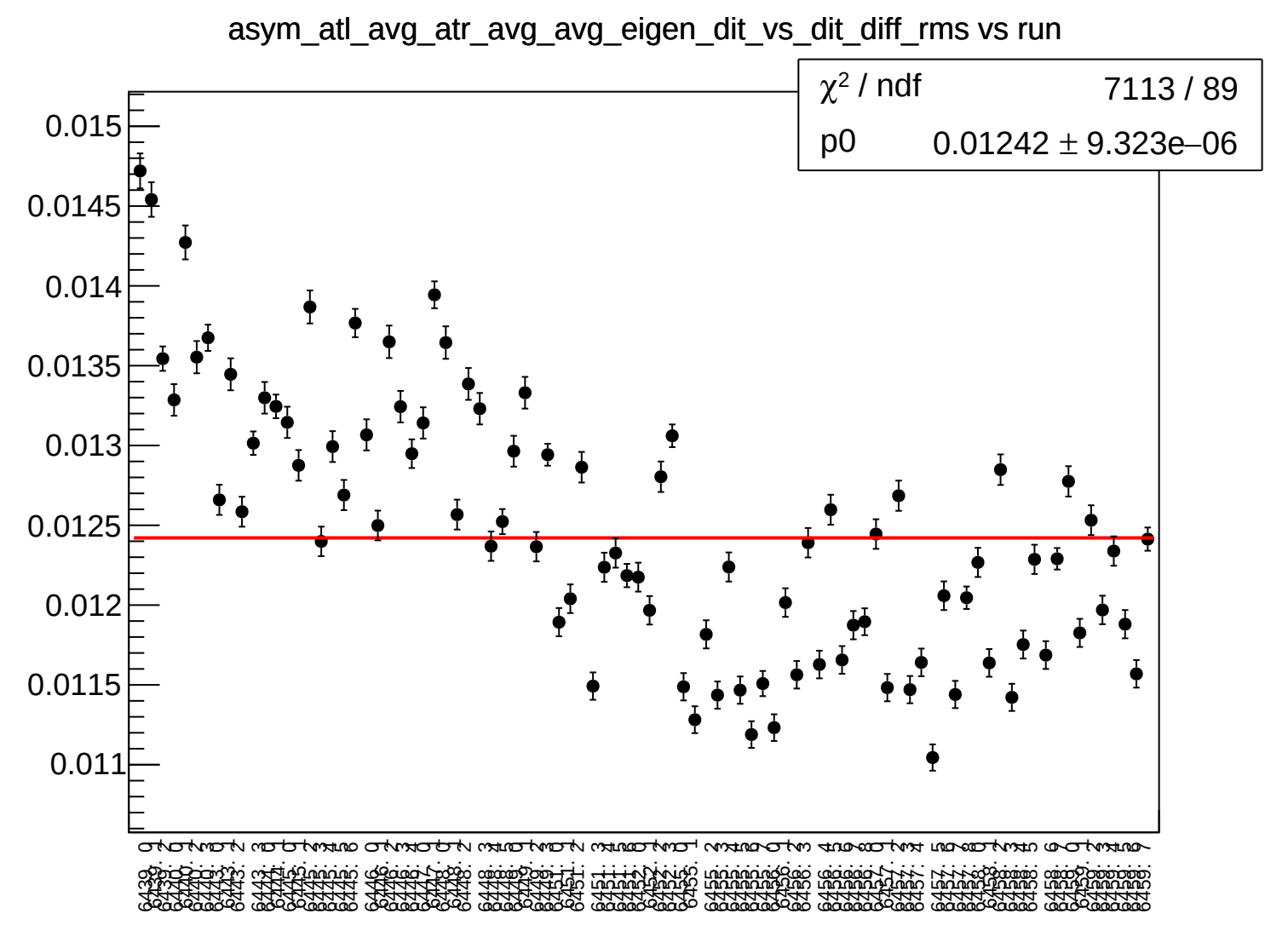

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.34 / 89
p0 −0.2657 ± 0.2118
pull
Entries 90
Mean 443.9
Std Dev 0

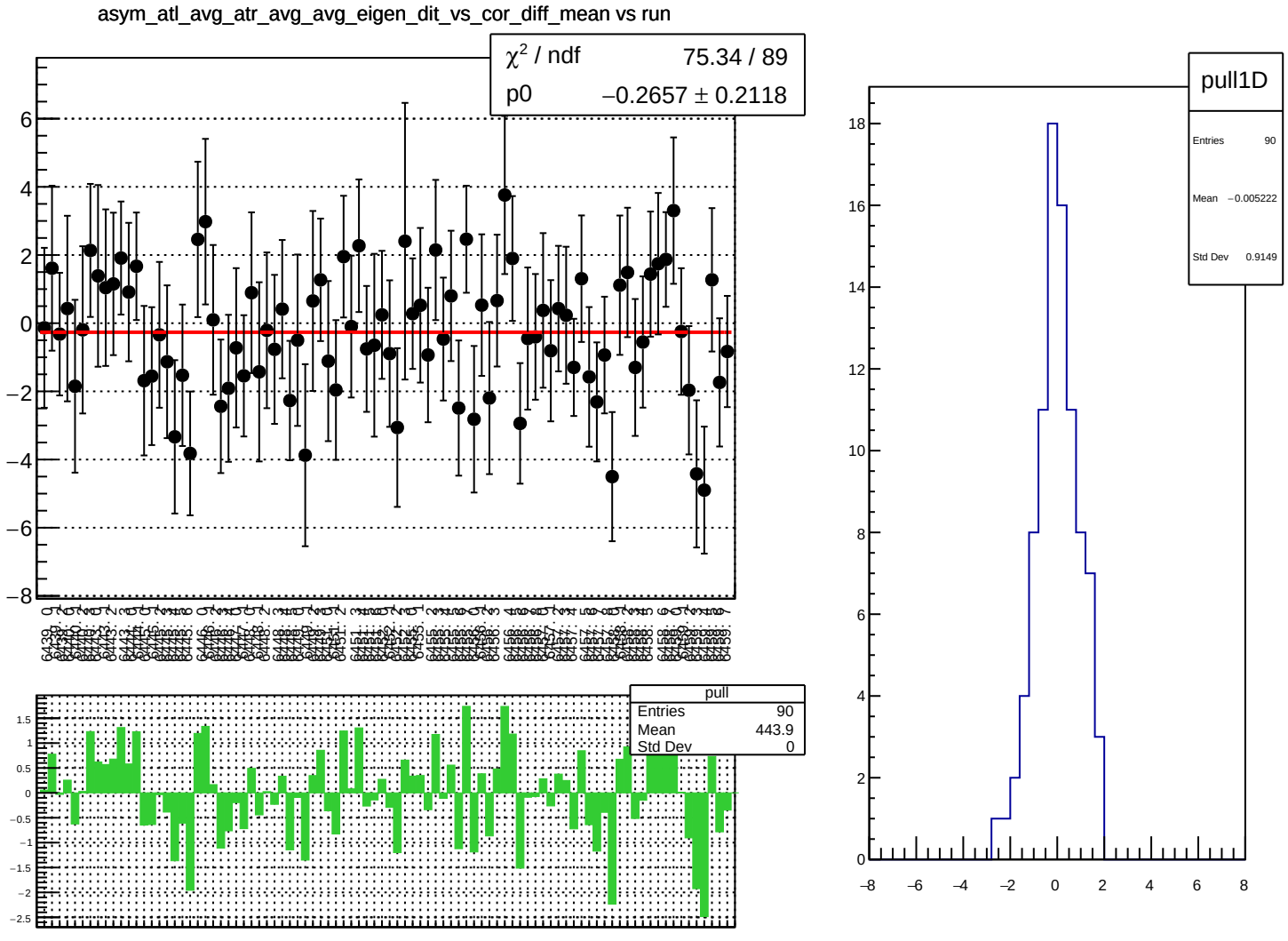

pull1D
Entries 90
Mean −0.005222
Std Dev 0.9149

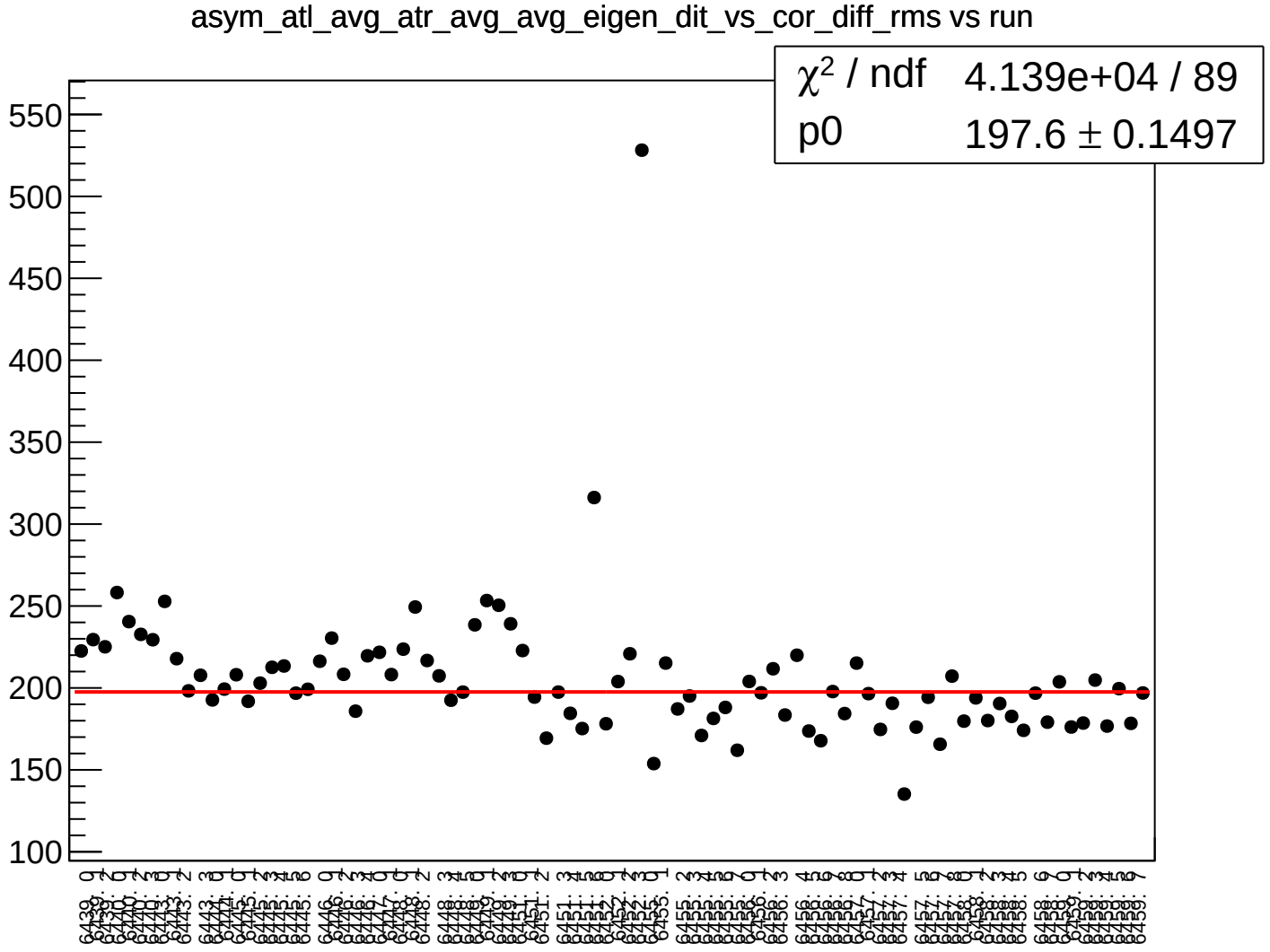

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.139e+04 / 89
p0 197.6 ± 0.1497
550
500
450
400
350
300
250
200
150
100

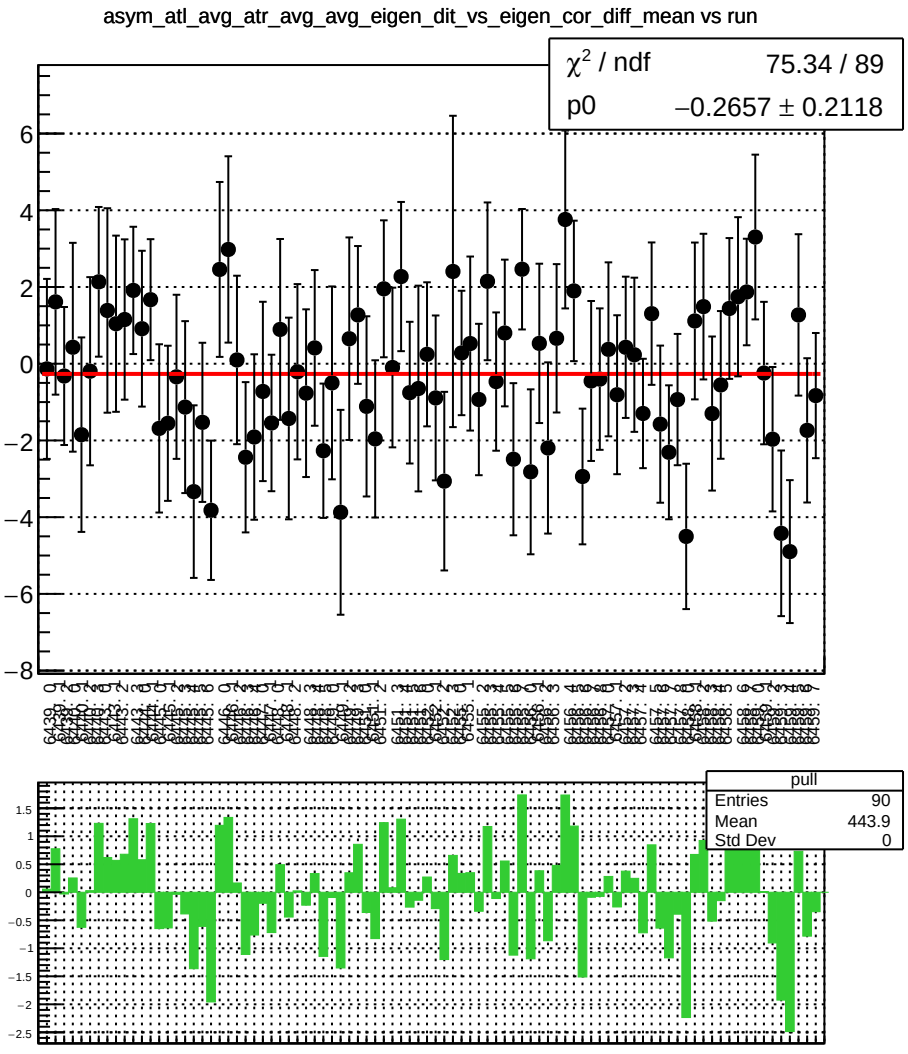

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 79.31 / 89
p0 3.243e−06 ± 1.319e−05
pull
Entries 90
Mean 11.89
Std Dev 51.56

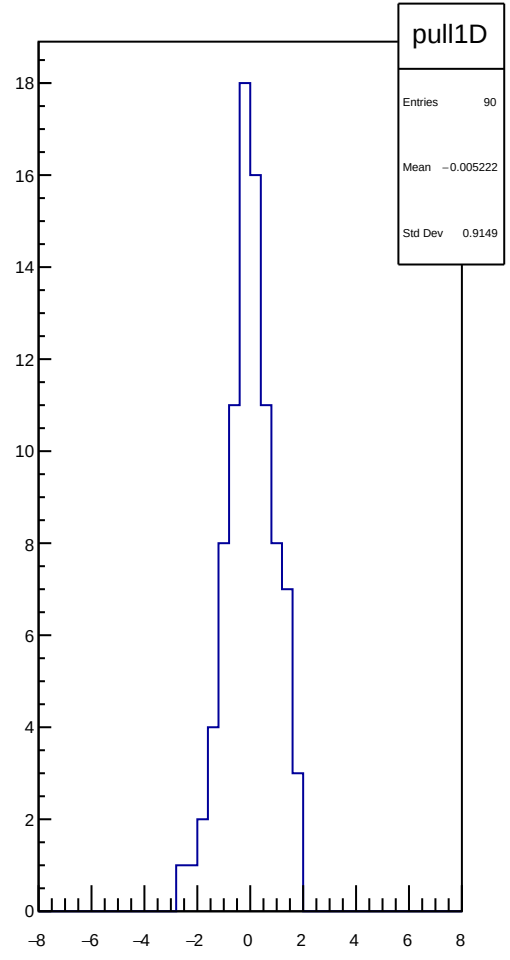

pull1D
Entries 90
Mean −0.01456
Std Dev 0.9386

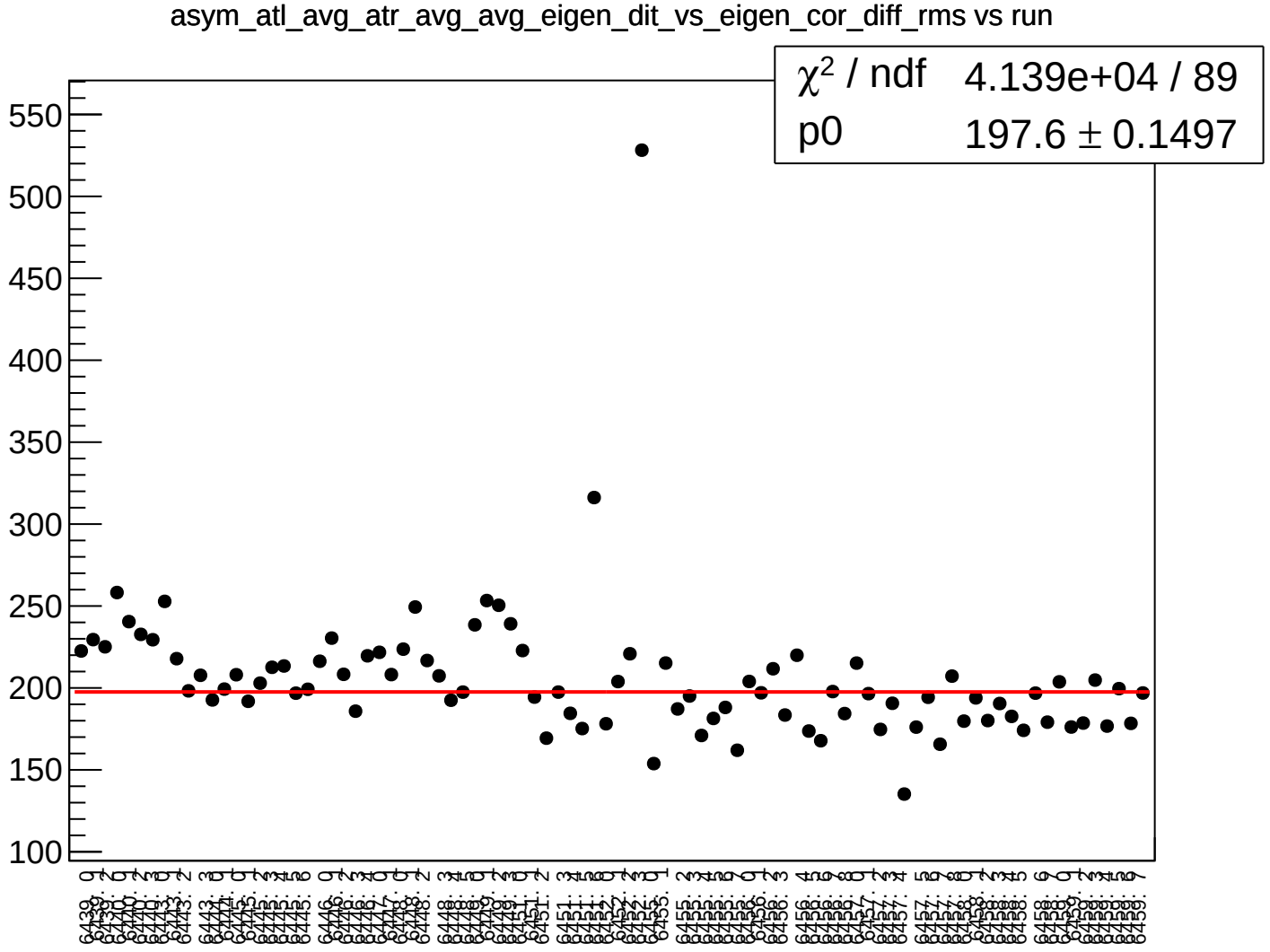

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7113 / 89
p0 0.01242 ± 9.323e−06
0.015
0.0145
0.014
0.0135
0.013
0.0125
0.012
0.0115
0.011

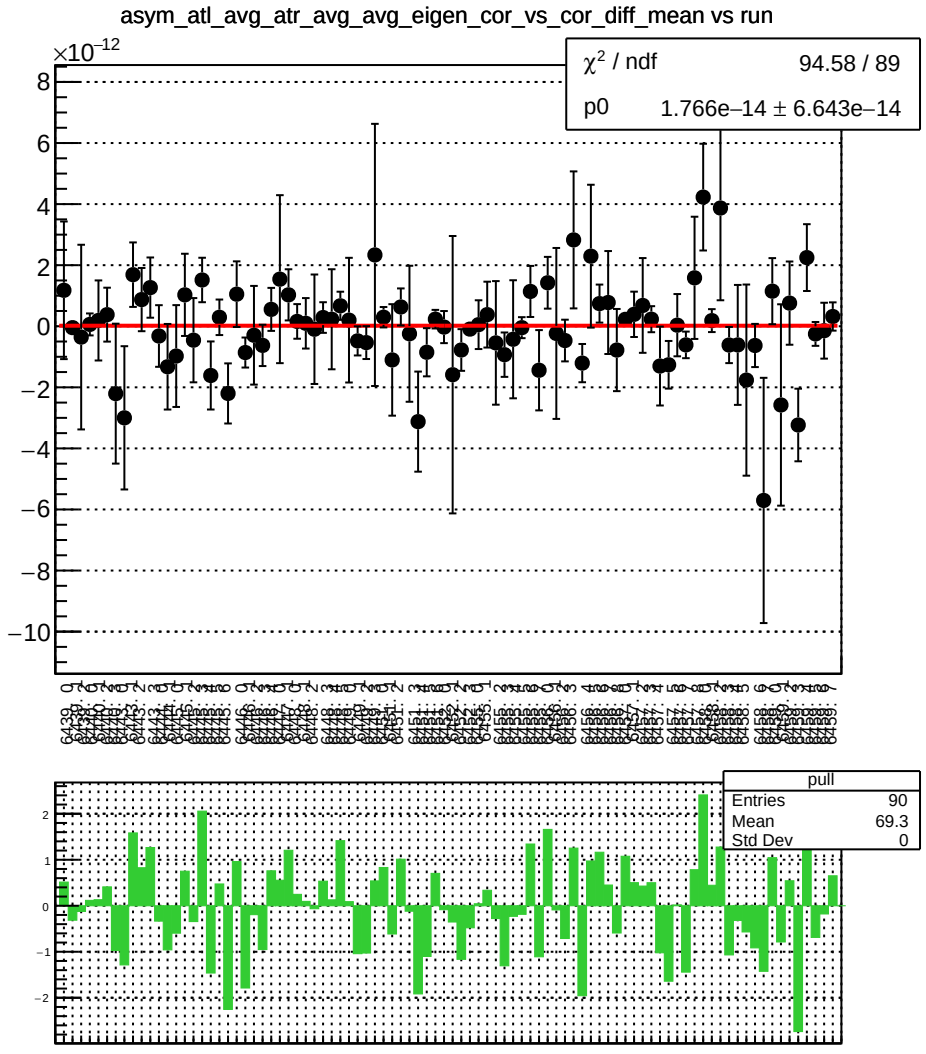

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.34 / 89
p0 −0.2657 ± 0.2118
pull
Entries 90
Mean 443.9
Std Dev 0
pull1D
Entries 90
Mean −0.005222
Std Dev 0.9149

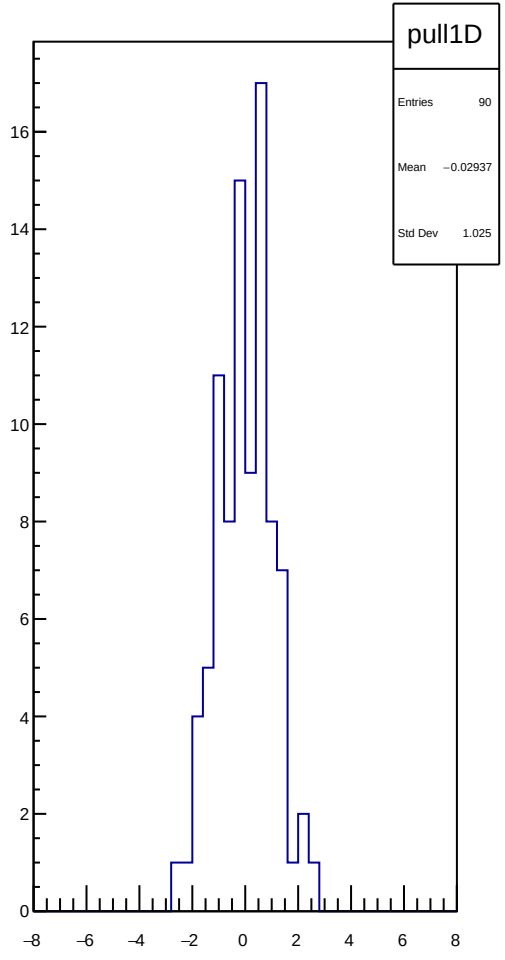

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.139e+04 / 89
p0 197.6 ± 0.1497
550
500
450
400
350
300
250
200
150
100

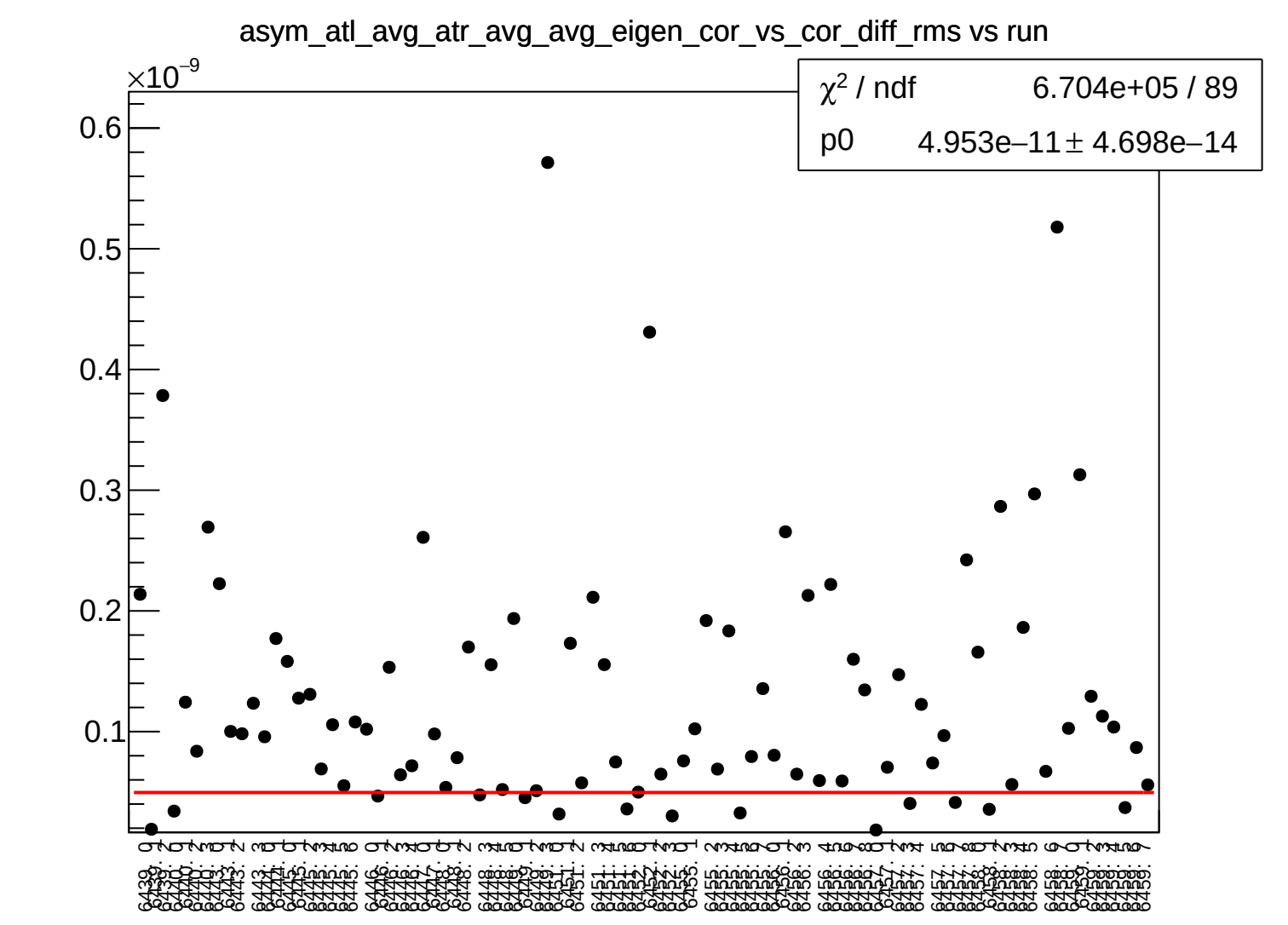

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.34 / 89
p0 −0.2657 ± 0.2118
pull
Entries 90
Mean 443.9
Std Dev 0

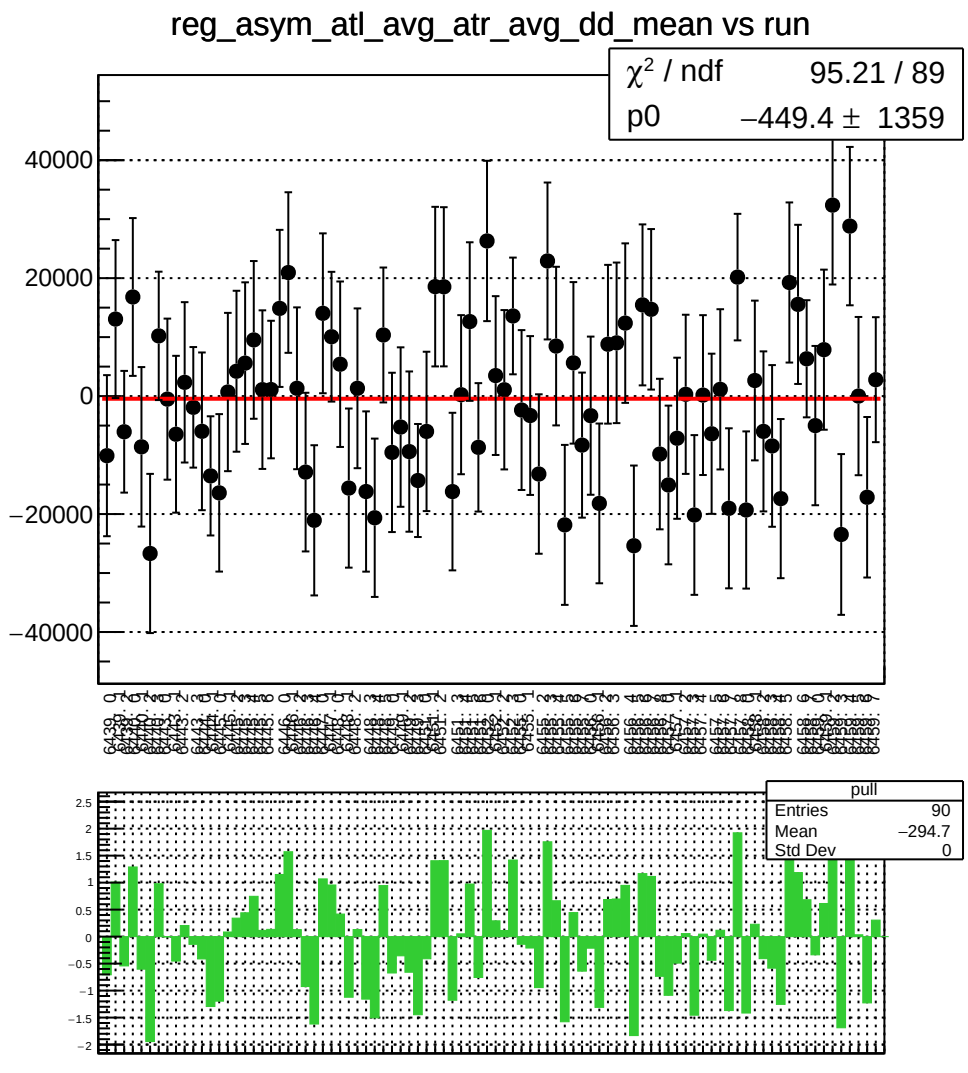

pull1D
Entries 90
Mean −0.005222
Std Dev 0.9149

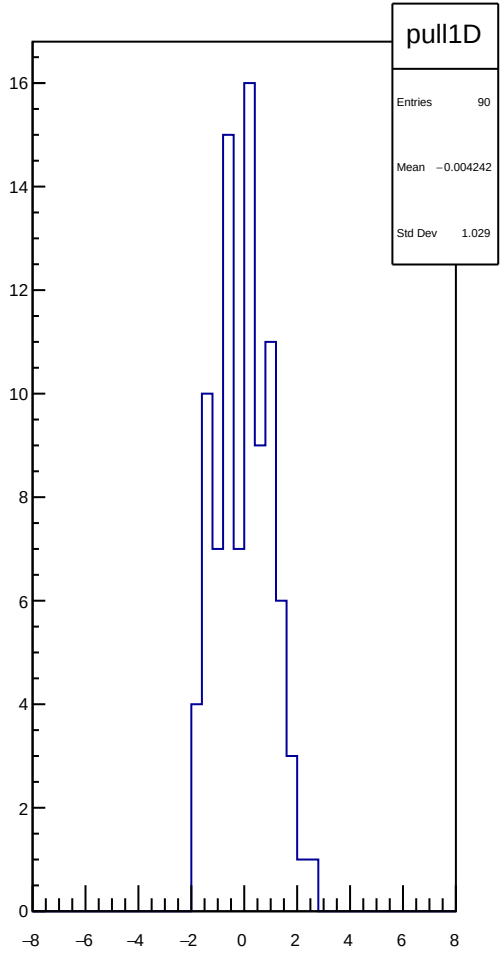

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.139e+04 / 89
p0 197.6 ± 0.1497
550
500
450
400
350
300
250
200
150
100

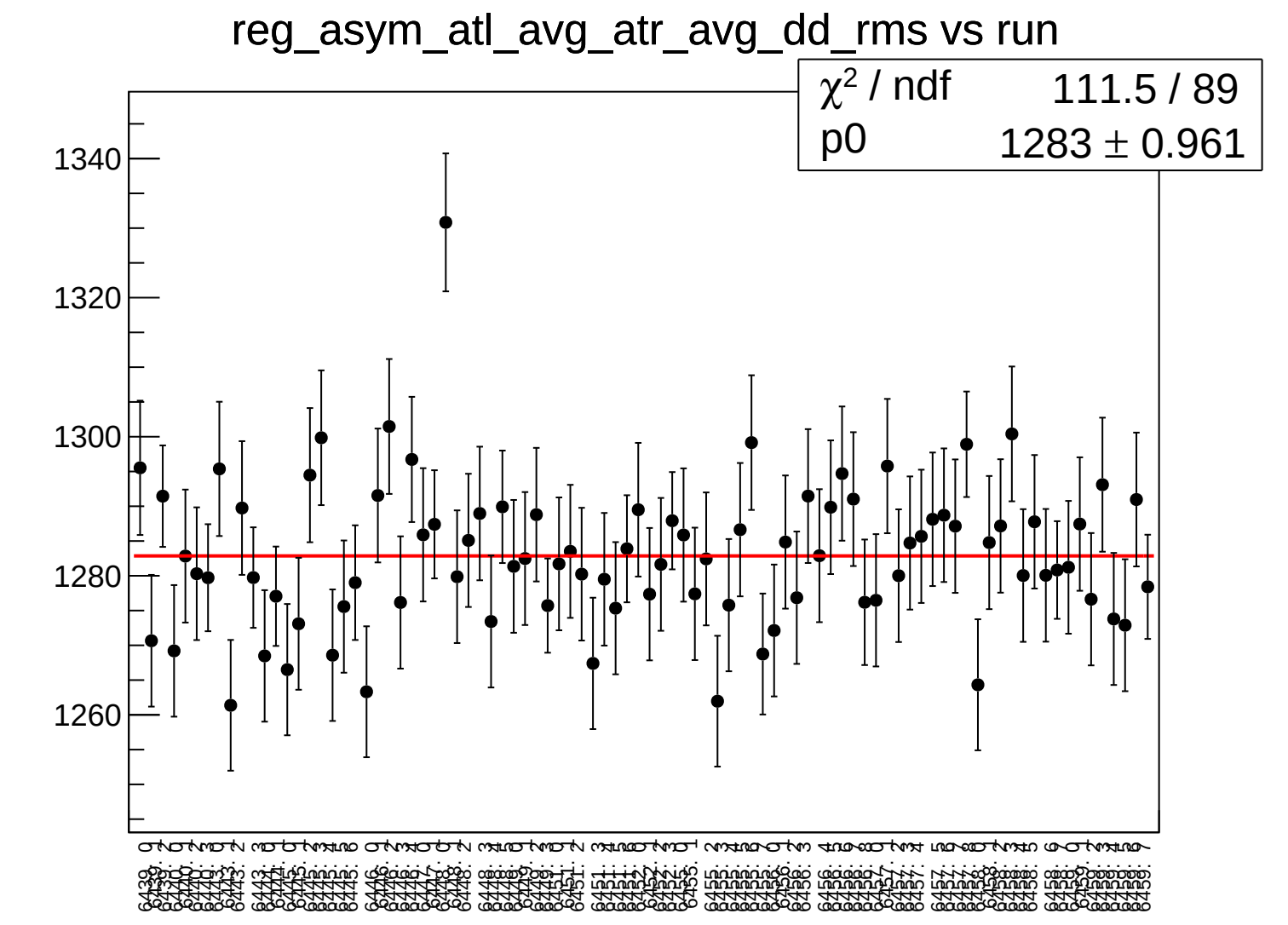

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.58 / 89
p0 1.766e−14 ± 6.643e−14
pull
Entries 90
Mean 69.3
Std Dev 0

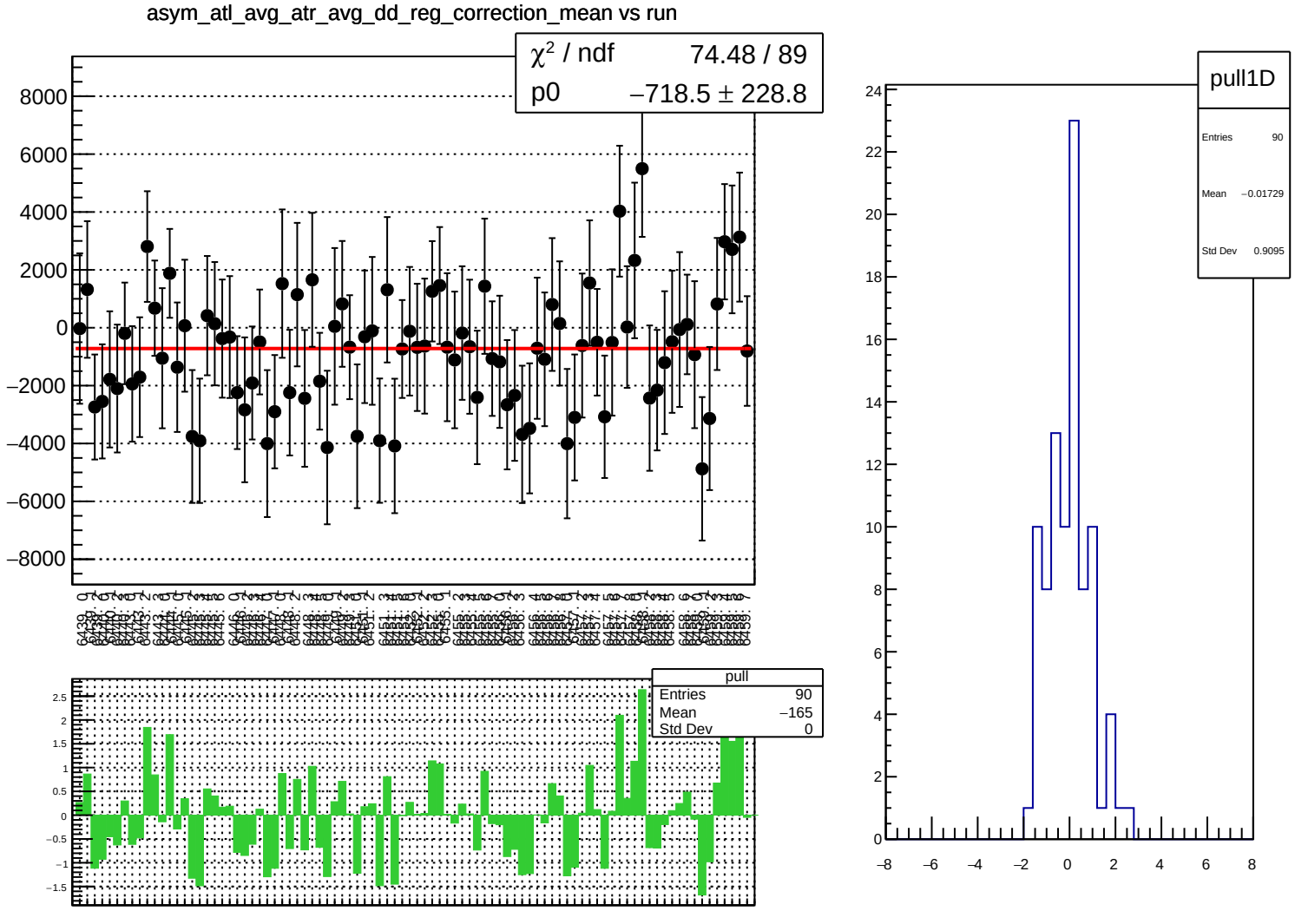

pull1D
Entries 90
Mean −0.02937
Std Dev 1.025

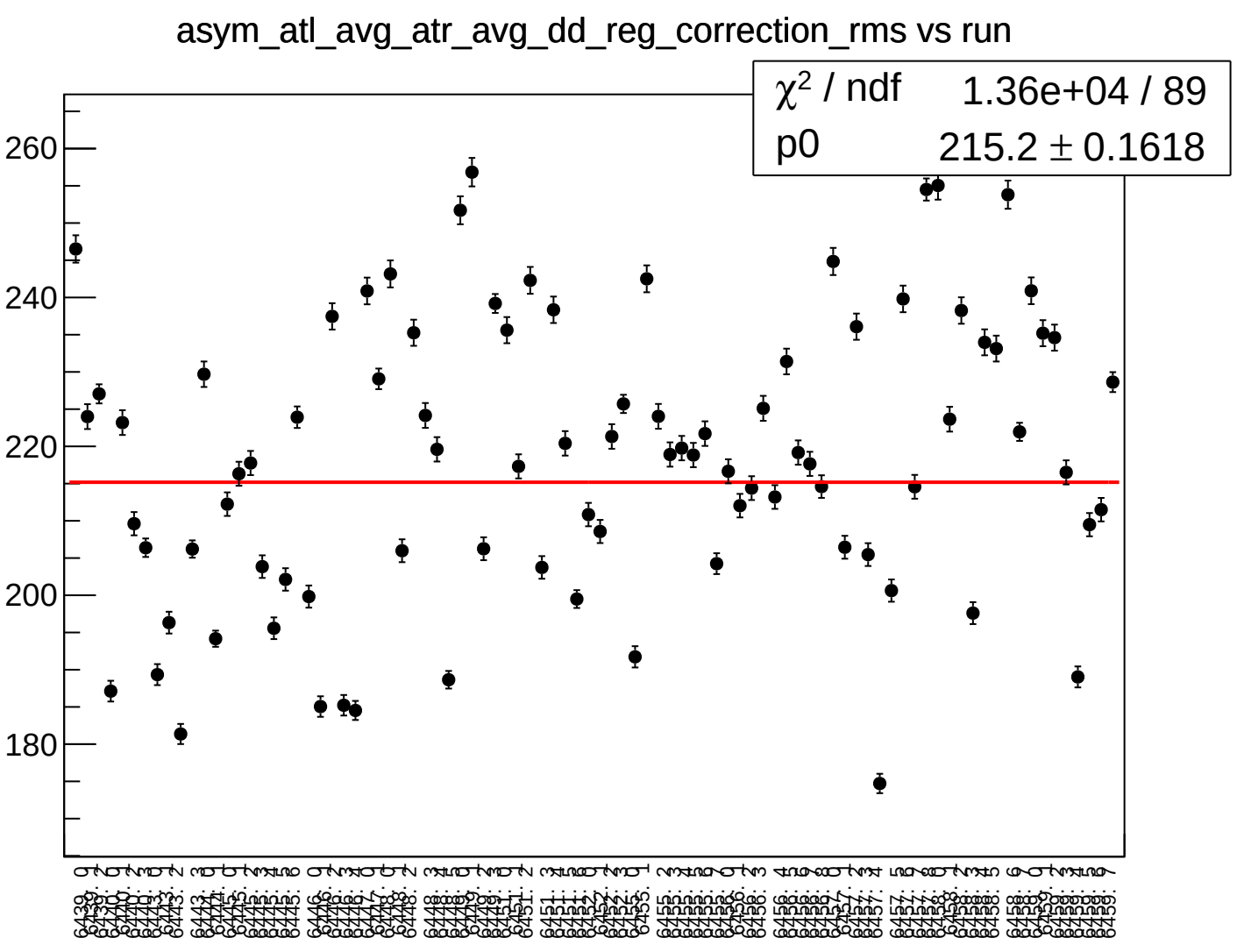

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.704e+05 / 89
p0 4.953e−11 ± 4.698e−14
0.6
0.5
0.4
0.3
0.2
0.1

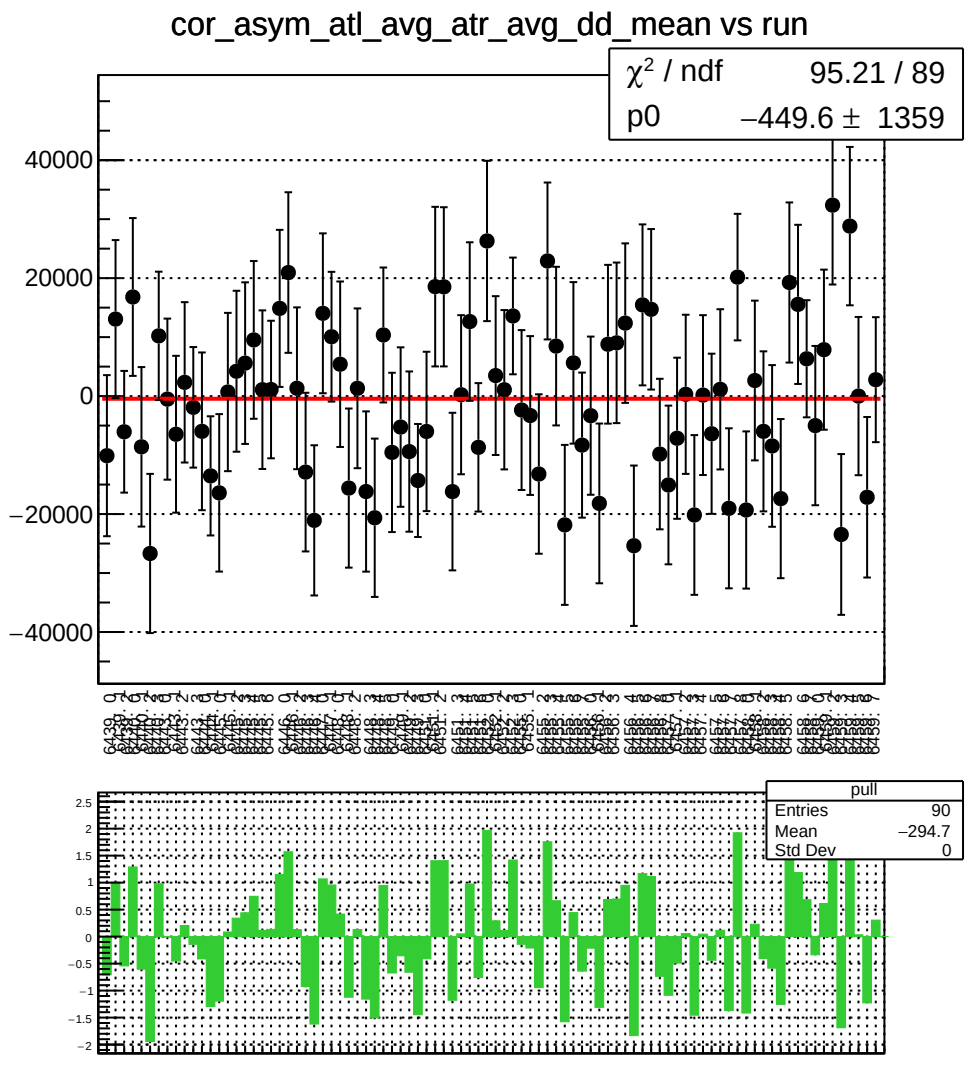

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 95.21 / 89
p0 −449.4 ± 1359
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −294.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

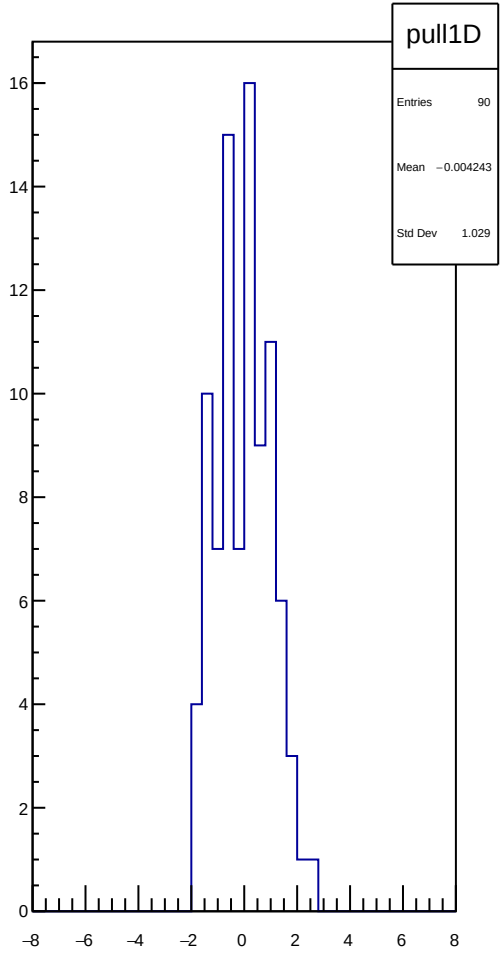

pull1D
Entries 90
Mean −0.004242
Std Dev 1.029
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

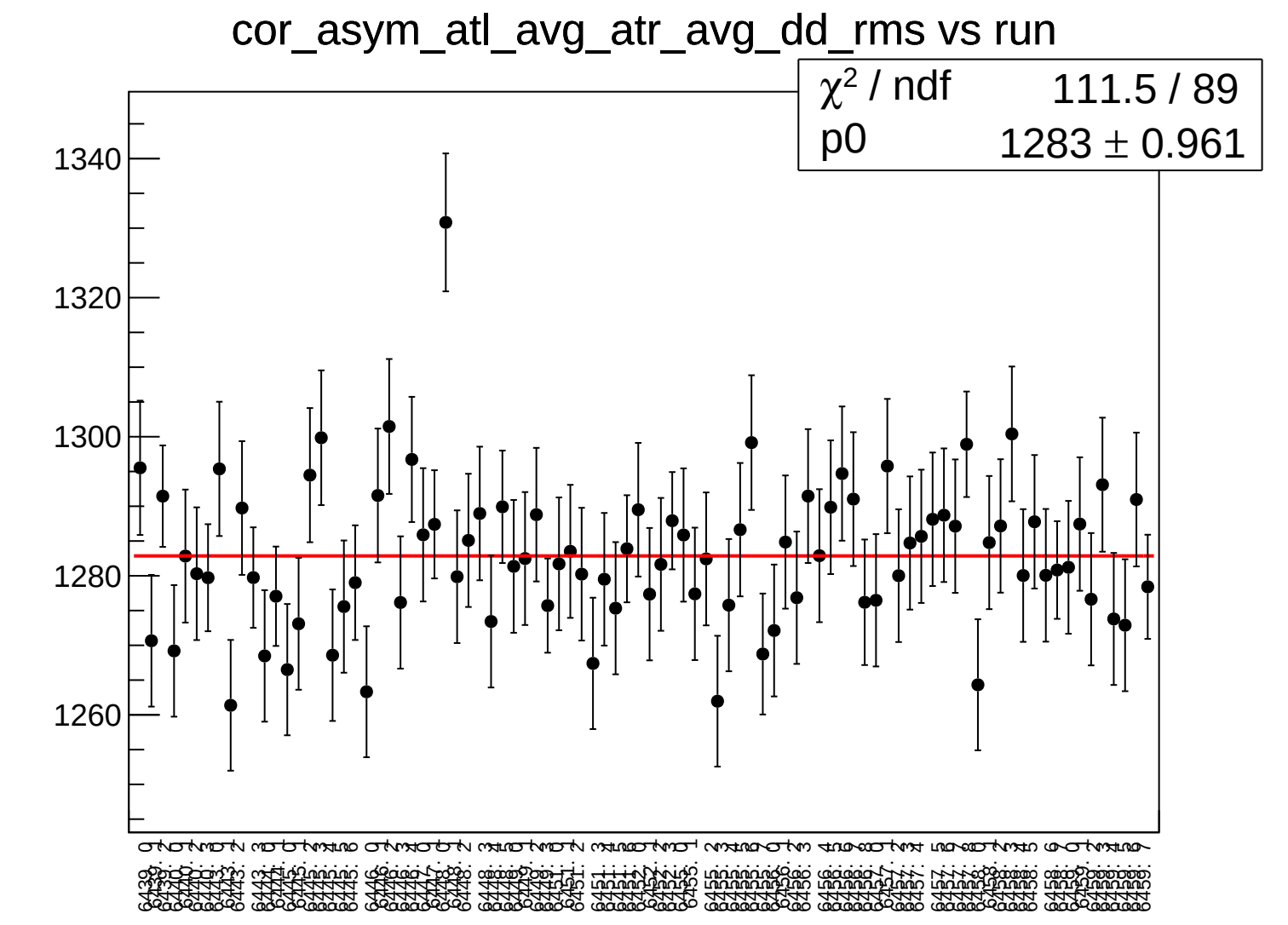

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 111.5 / 89
p0 1283 ± 0.961
1340
1320
1300
1280
1260

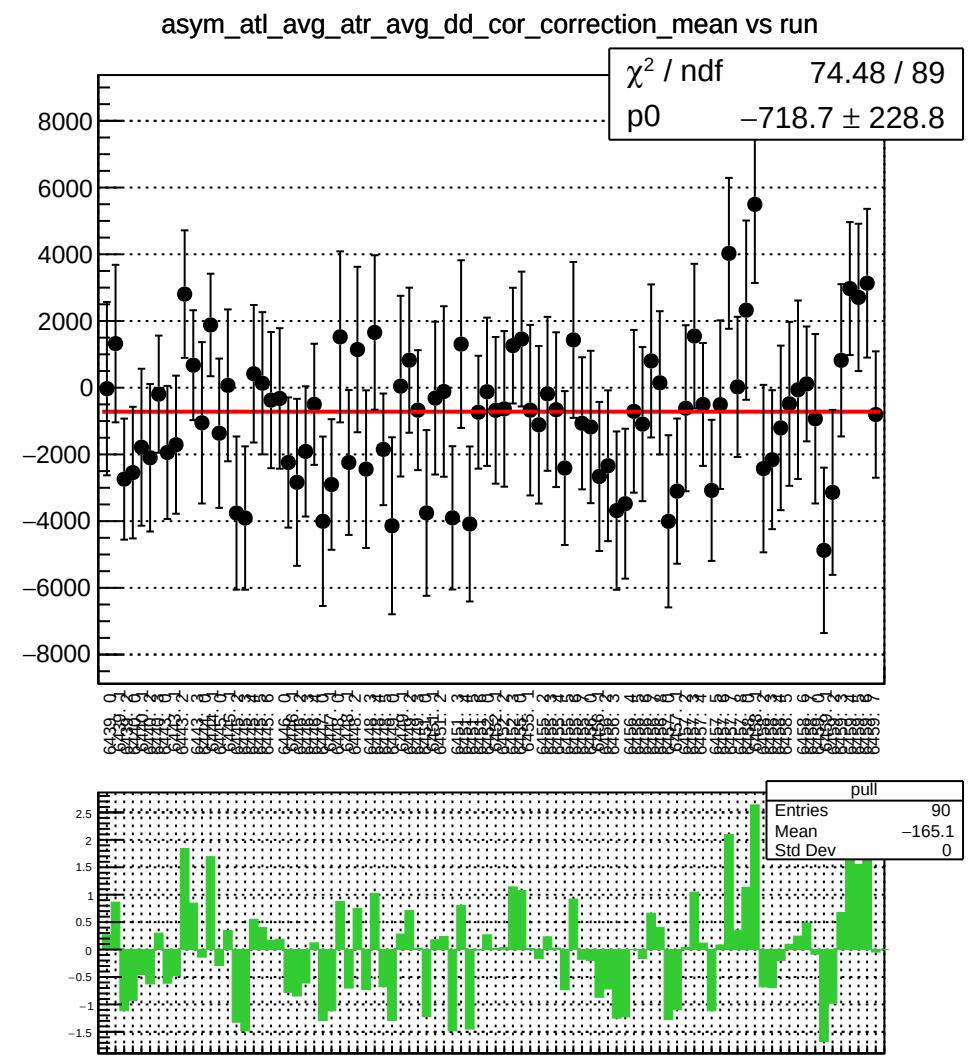

asym_atl_avg_atr_avg_dd_reg_correction_mean vs run
χ² / ndf 74.48 / 89
p0 −718.5 ± 228.8
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 90
Mean −165
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 90
Mean −0.01729
Std Dev 0.9095
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

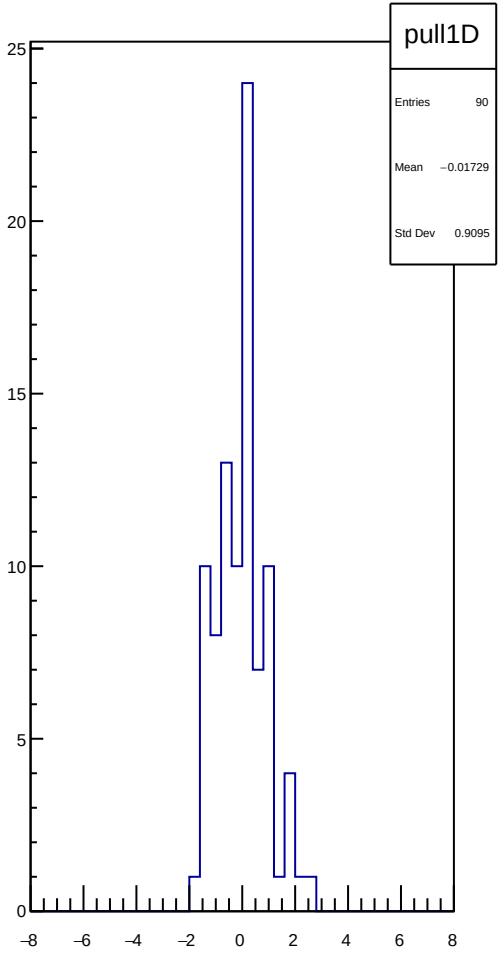

asym_atl_avg_atr_avg_dd_reg_correction_rms vs run
χ² / ndf 1.36e+04 / 89
p0 215.2 ± 0.1618
260
240
220
200
180

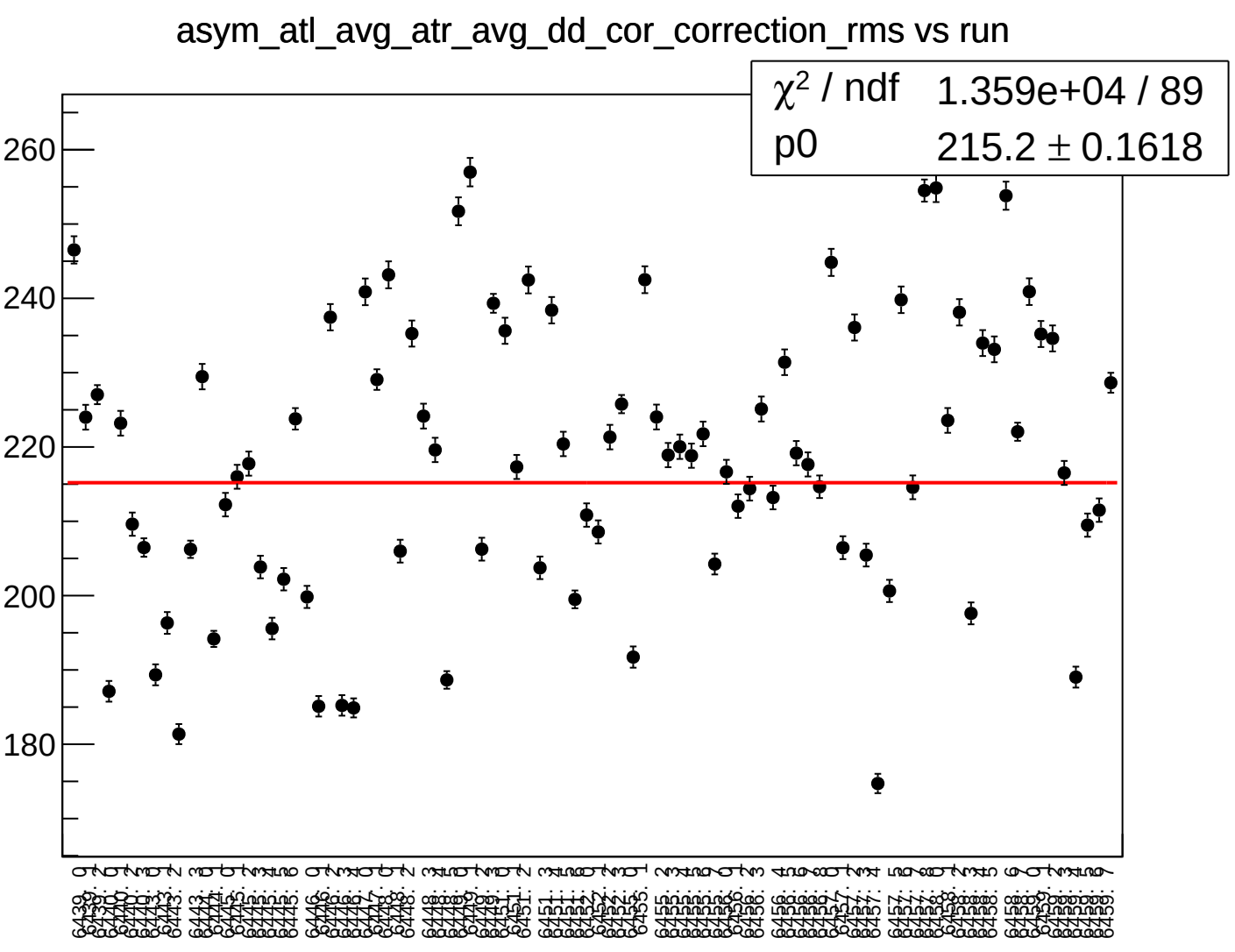

cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 95.21 / 89
p0 −449.6 ± 1359
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −294.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

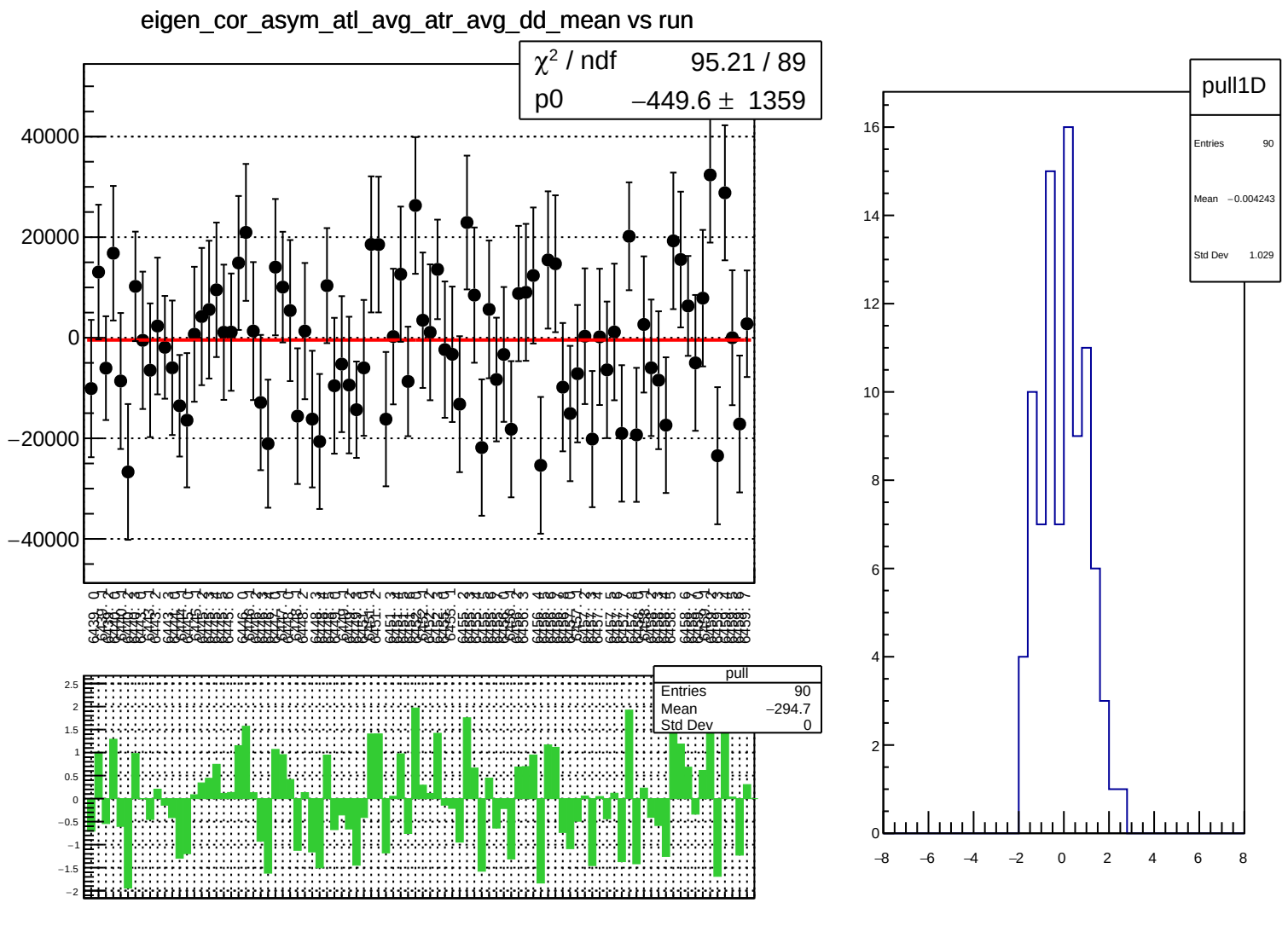

pull1D
Entries 90
Mean −0.004243
Std Dev 1.029
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

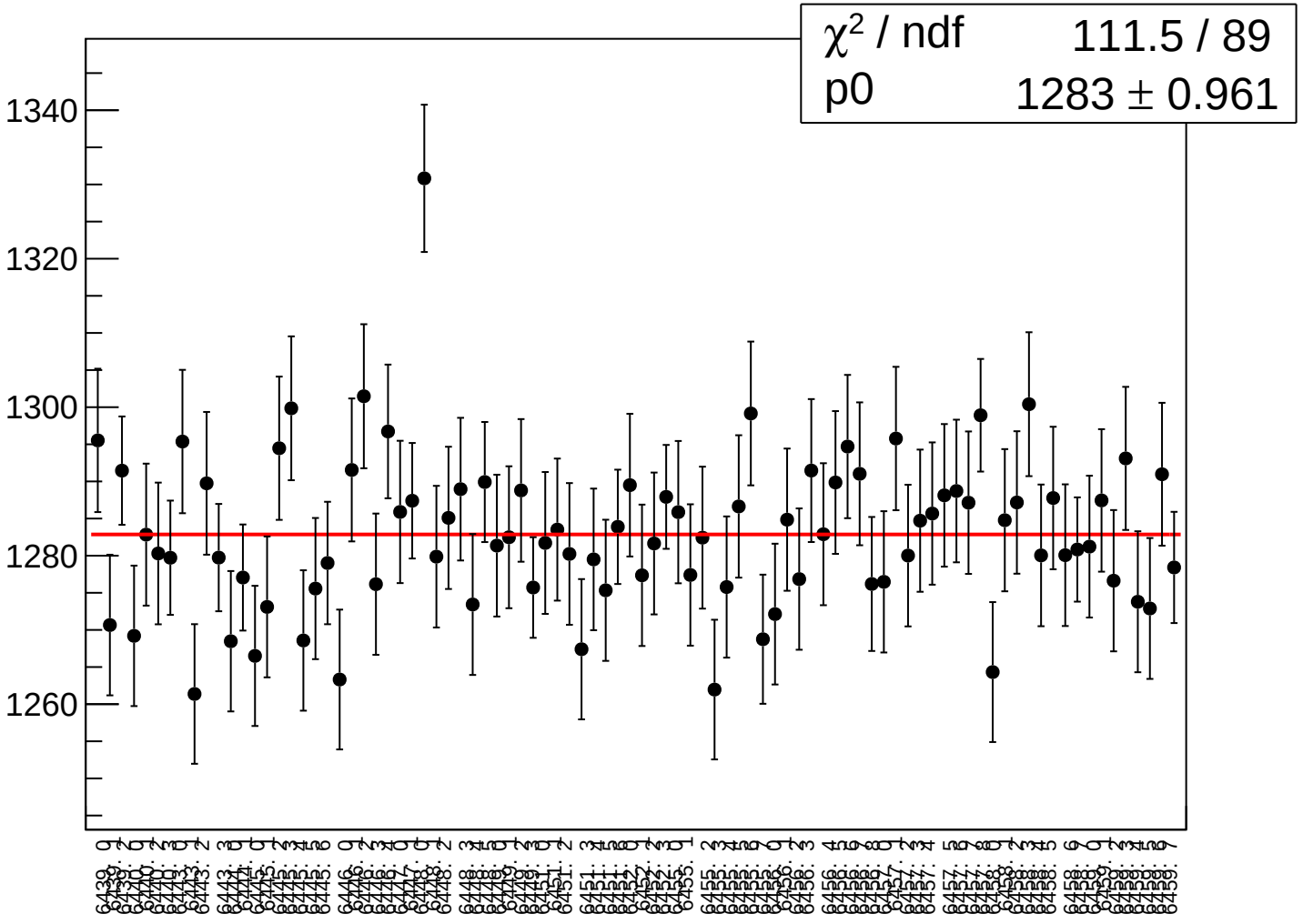

cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 111.5 / 89
p0 1283 ± 0.961
1340
1320
1300
1280
1260

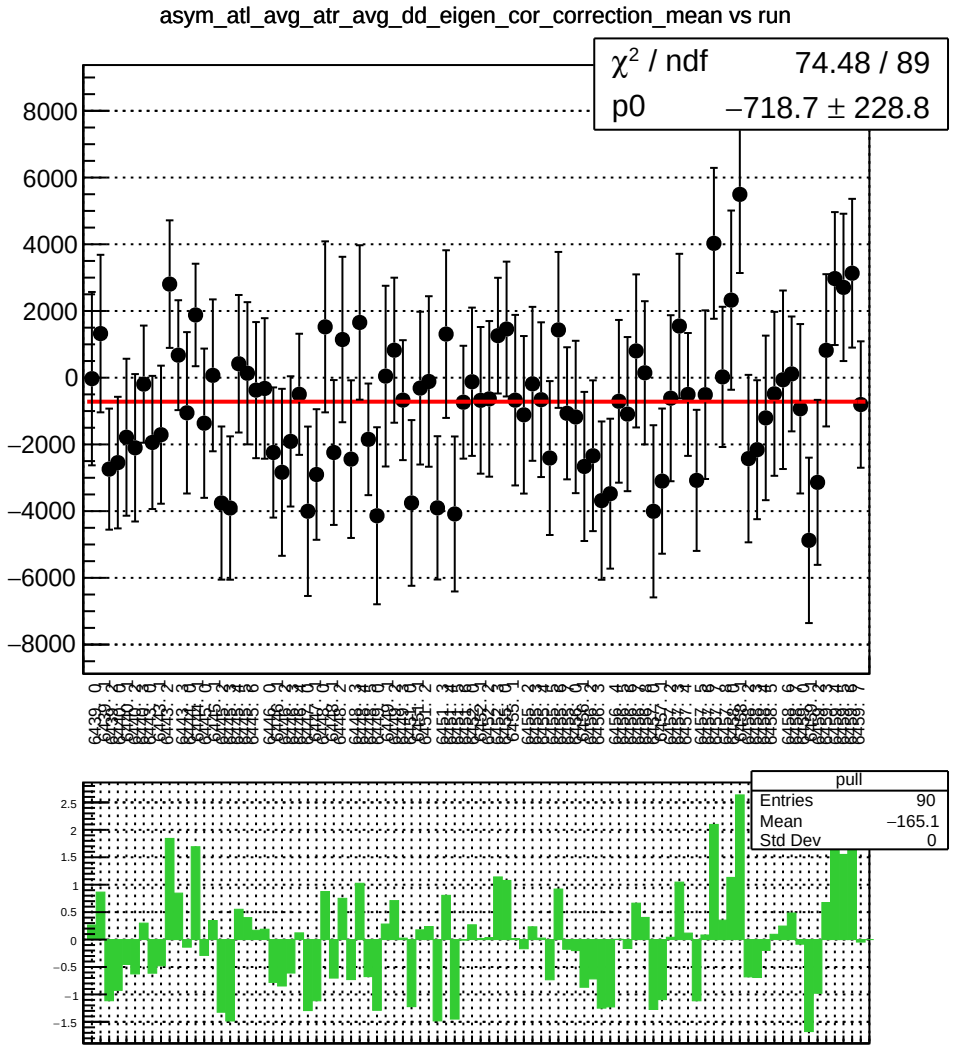

asym_atl_avg_atr_avg_dd_cor_correction_mean vs run
χ² / ndf 74.48 / 89
p0 −718.7 ± 228.8
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 90
Mean −165.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

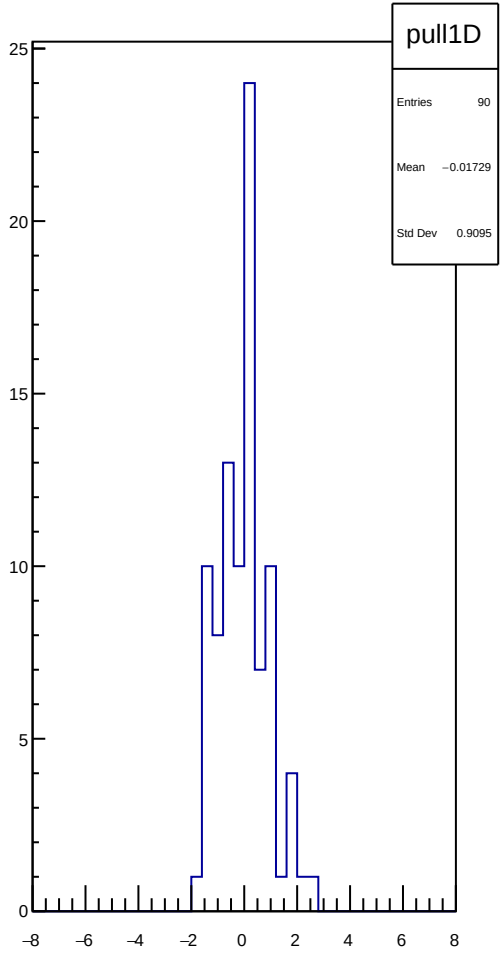

pull1D
Entries 90
Mean −0.01729
Std Dev 0.9095
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

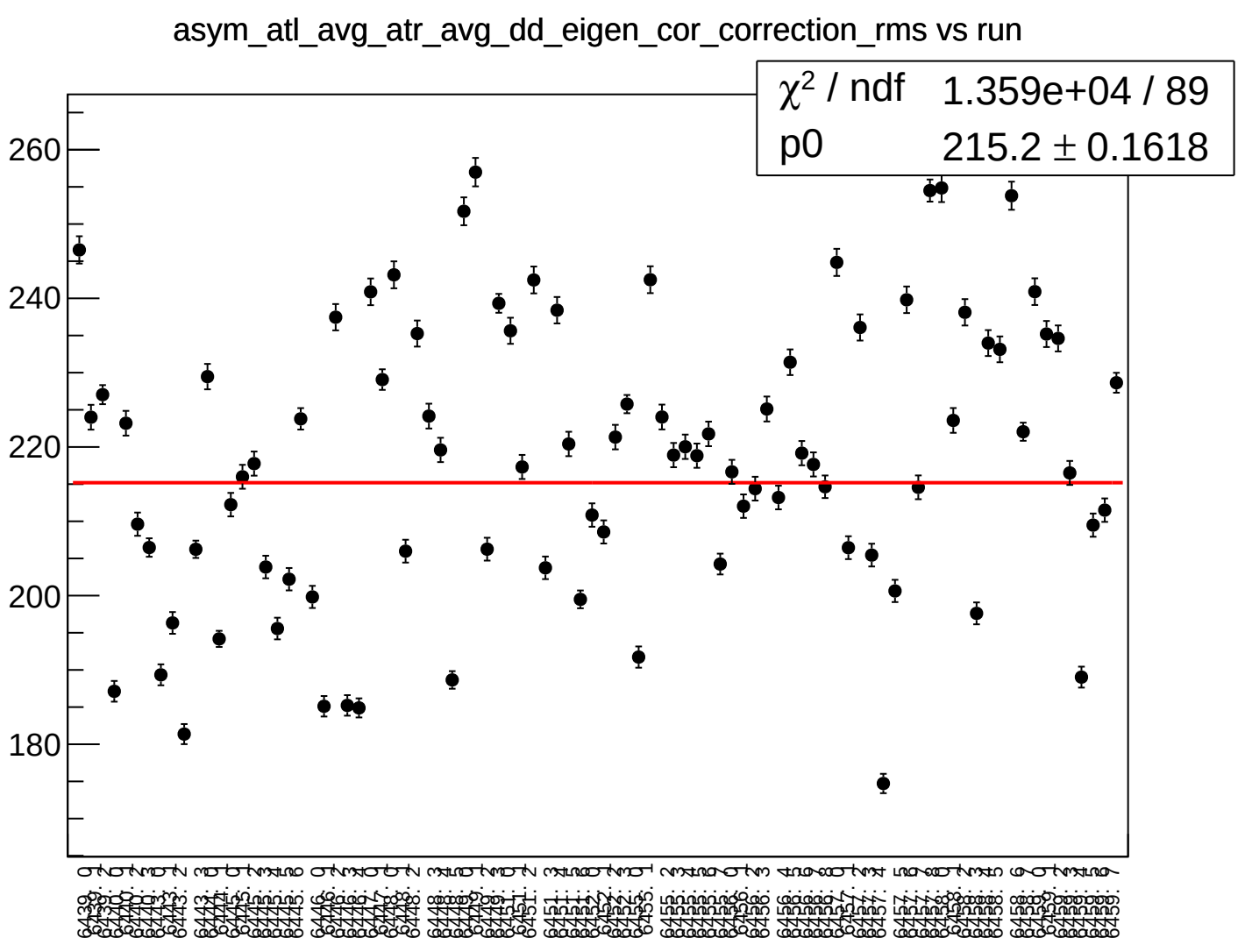

asym_atl_avg_atr_avg_dd_cor_correction_rms vs run
χ² / ndf 1.359e+04 / 89
p0 215.2 ± 0.1618
260
240
220
200
180

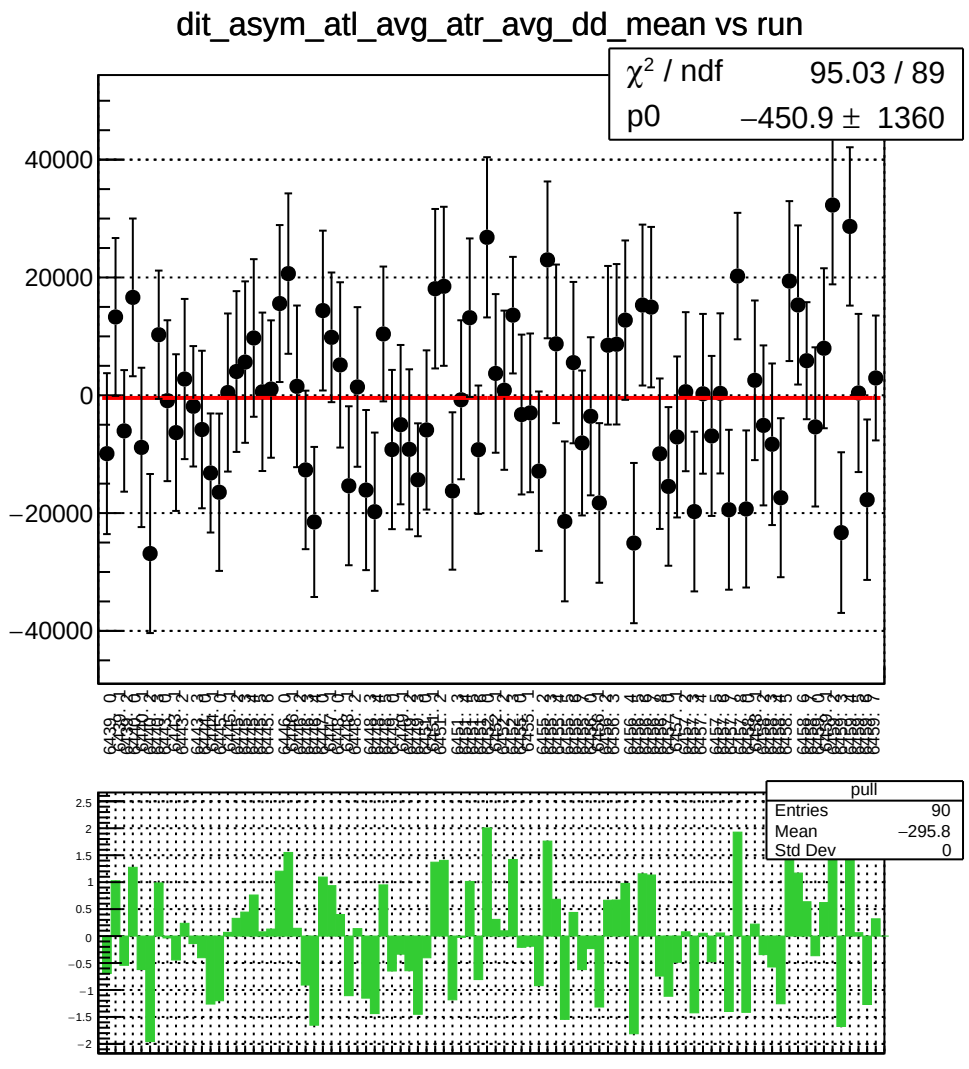

eigen_cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 95.21 / 89
p0 −449.6 ± 1359
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −294.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 90
Mean −0.004243
Std Dev 1.029
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

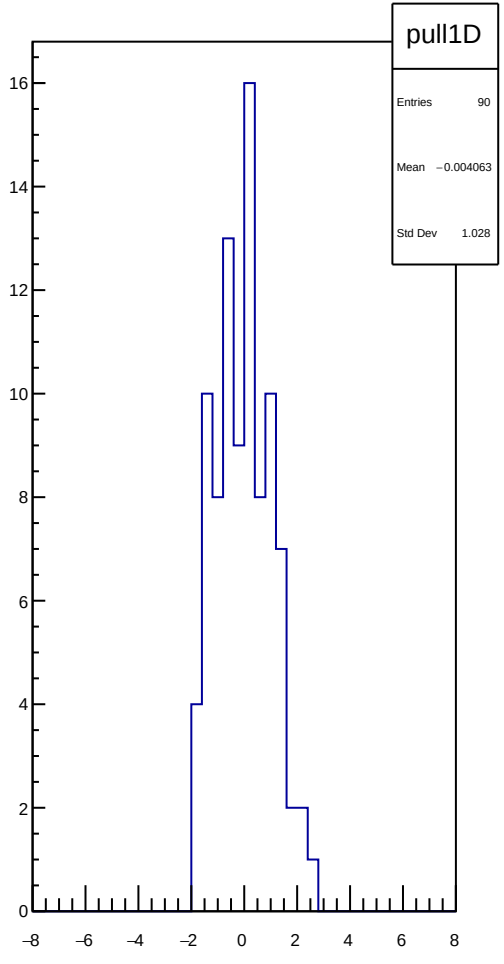

eigen_cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 111.5 / 89
p0 1283 ± 0.961
1340
1320
1300
1280
1260

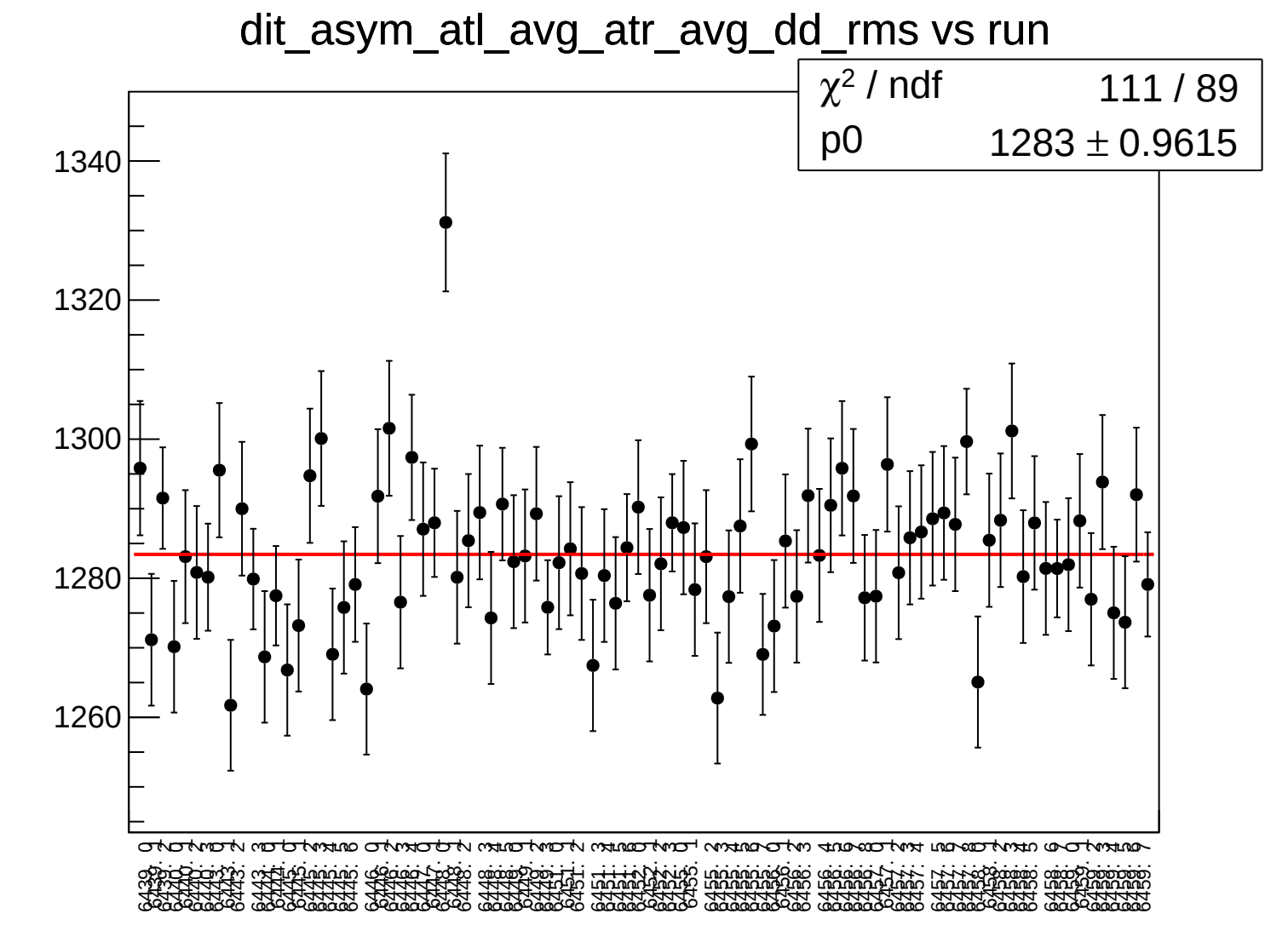

asym_atl_avg_atr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 74.48 / 89
p0 −718.7 ± 228.8
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 90
Mean −165.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

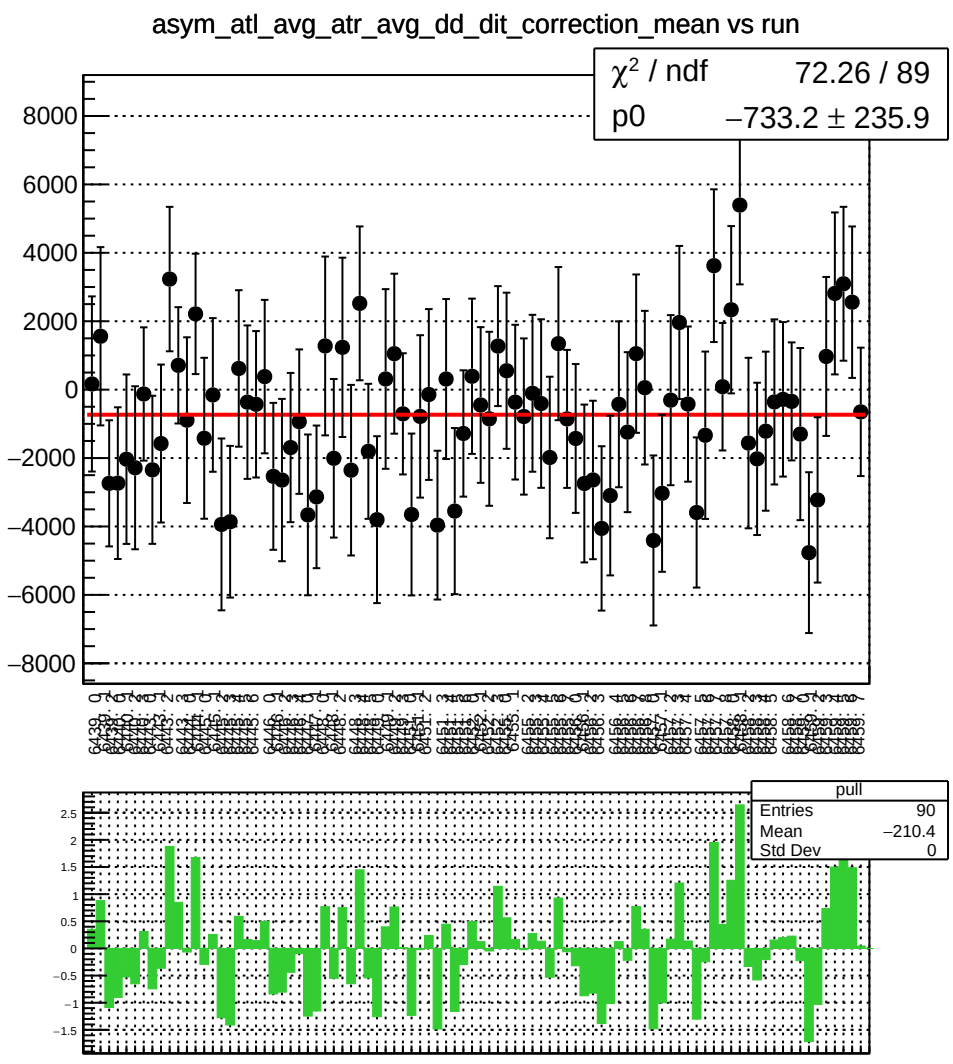

pull1D
Entries 90
Mean −0.01729
Std Dev 0.9095
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

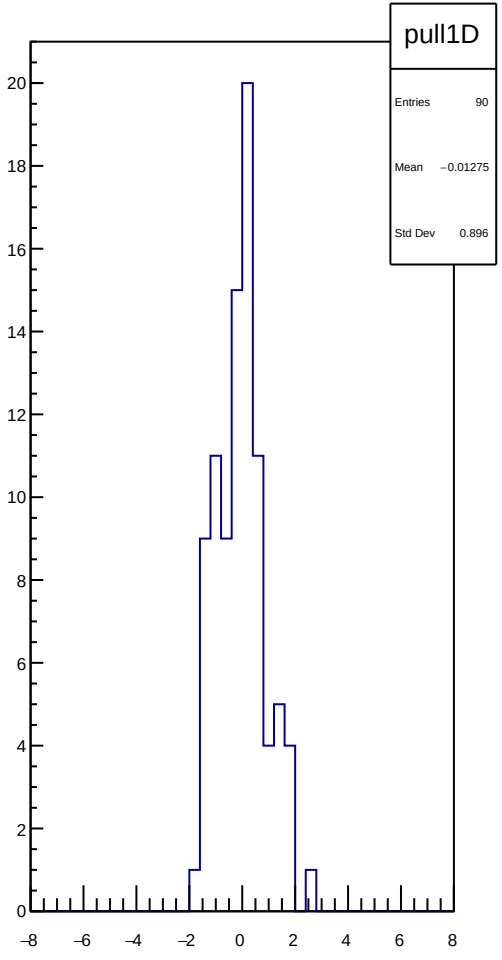

asym_atl_avg_atr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.359e+04 / 89
p0 215.2 ± 0.1618
260
240
220
200
180

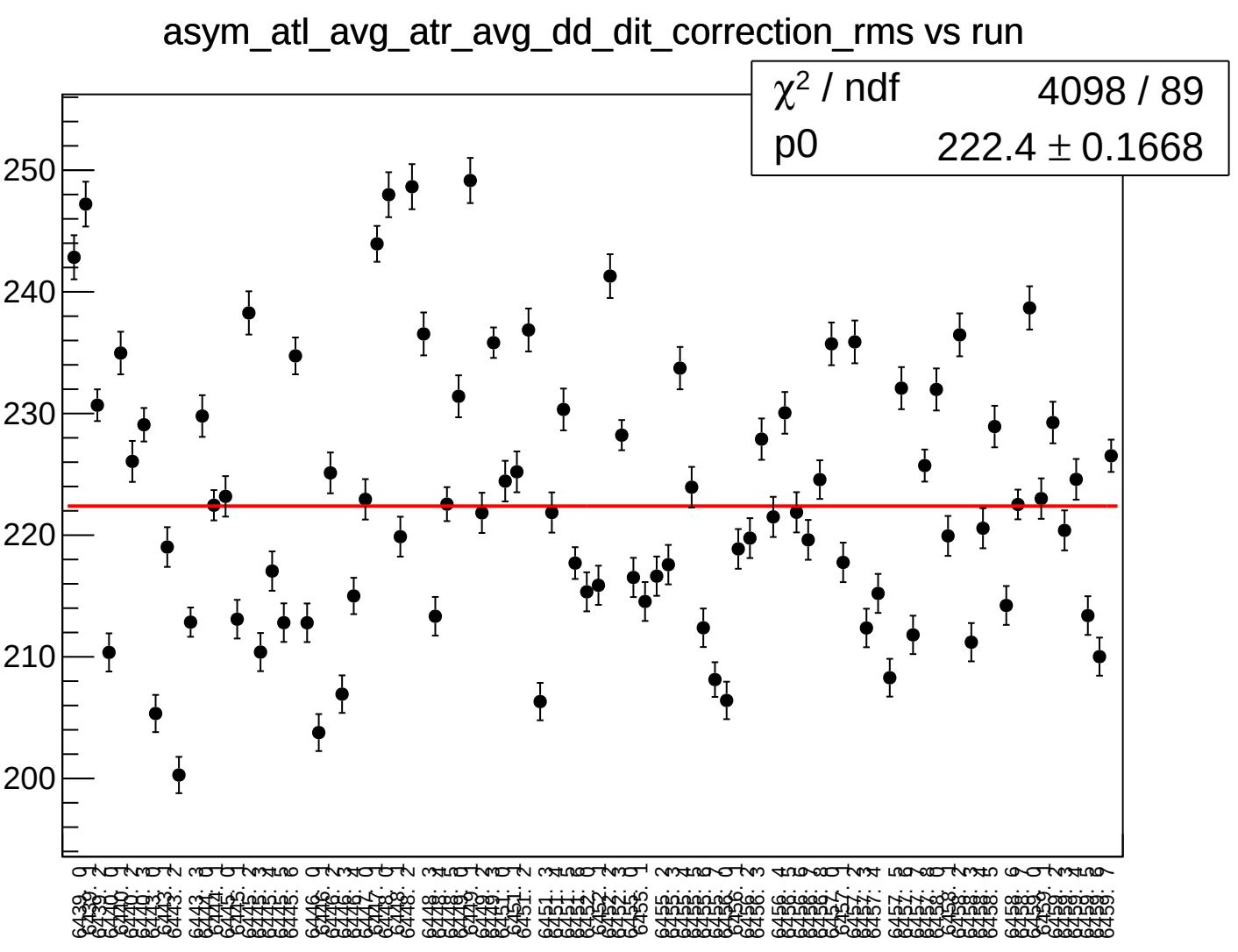

dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 95.03 / 89
p0 −450.9 ± 1360
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −295.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

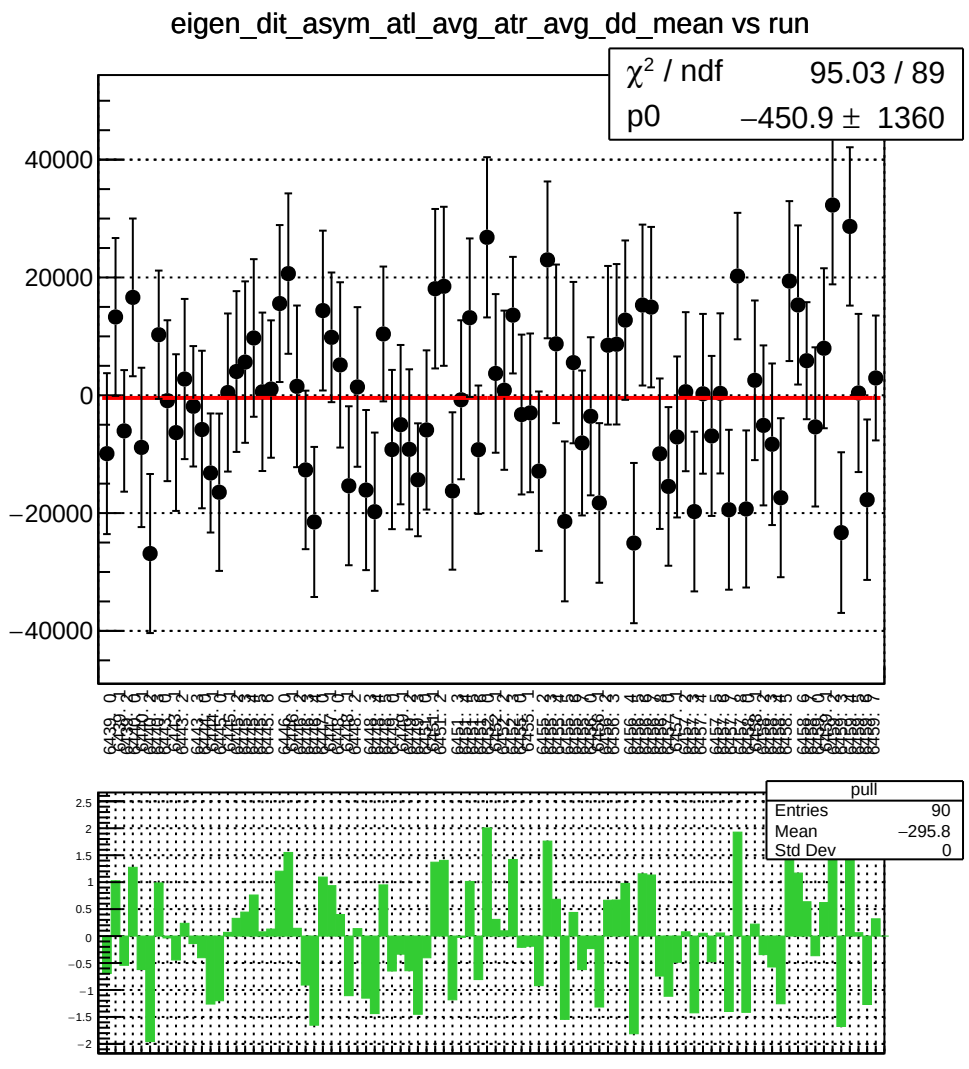

pull1D
Entries 90
Mean −0.004063
Std Dev 1.028
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

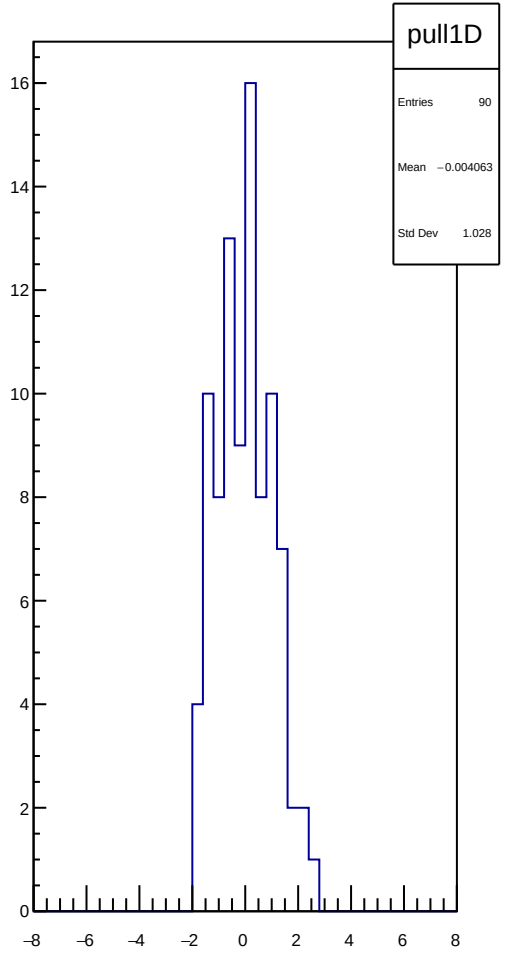

dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 111 / 89
p0 1283 ± 0.9615
1340
1320
1300
1280
1260

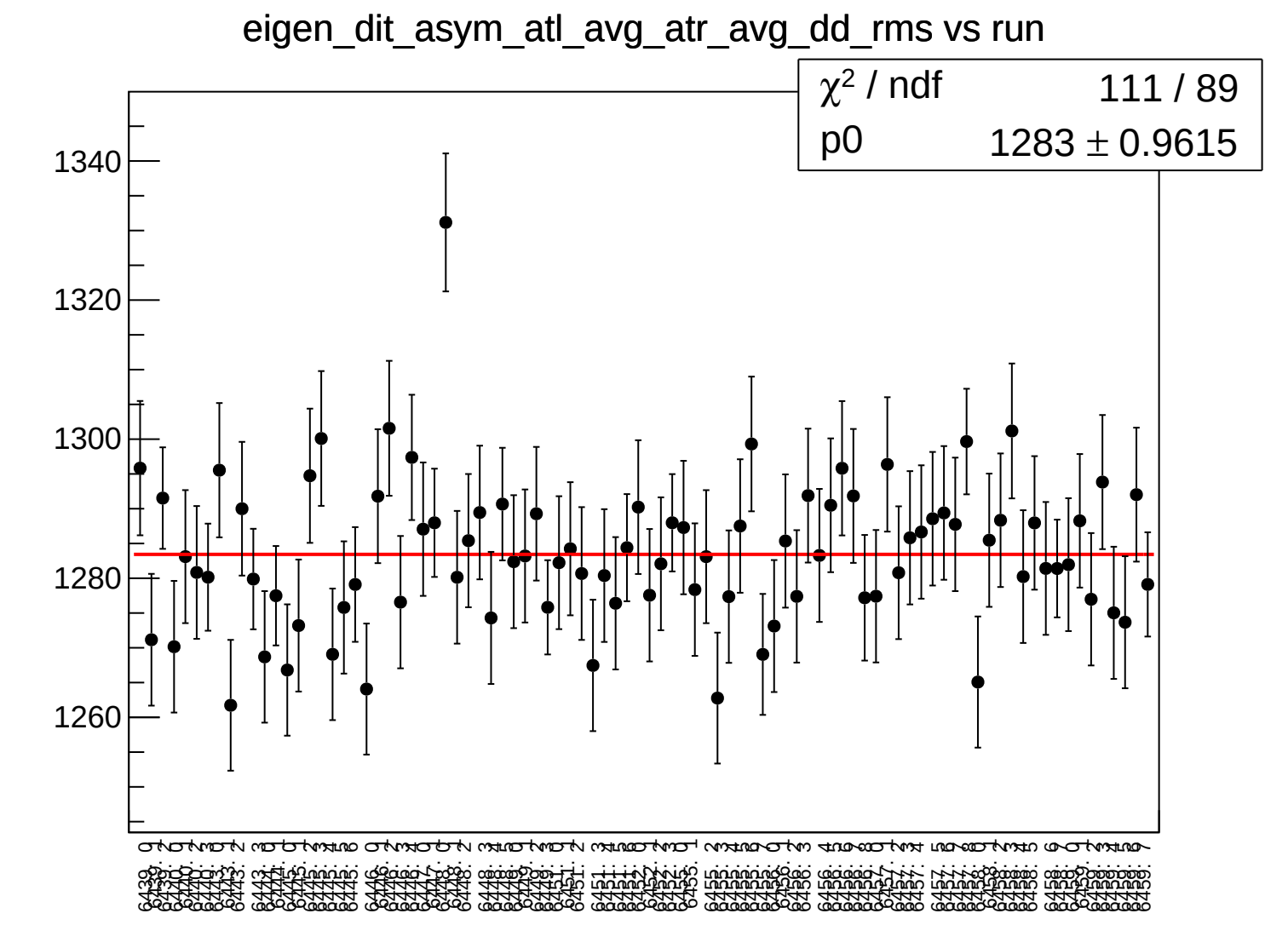

asym_atl_avg_atr_avg_dd_dit_correction_mean vs run
χ² / ndf 72.26 / 89
p0 −733.2 ± 235.9
pull
Entries 90
Mean −210.4
Std Dev 0

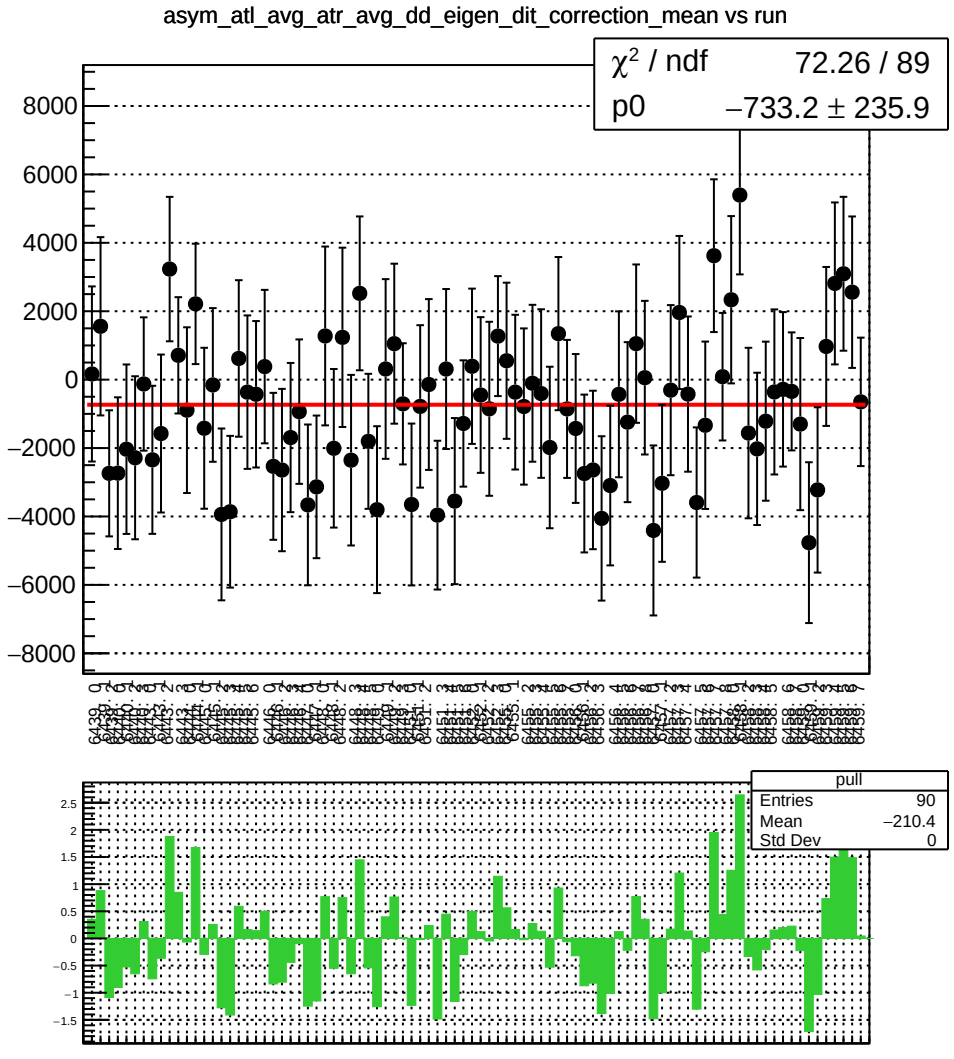

pull1D
Entries 90
Mean −0.01275
Std Dev 0.896

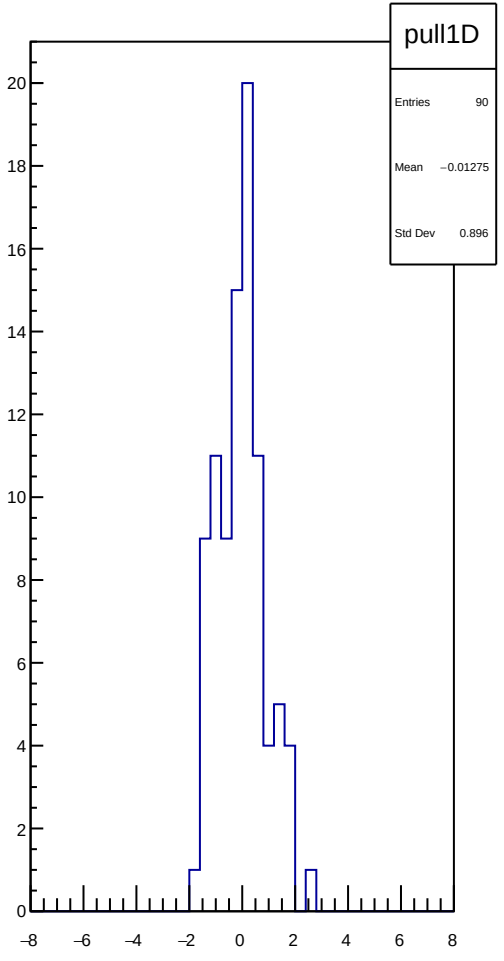

asym_atl_avg_atr_avg_dd_dit_correction_rms vs run
χ² / ndf 4098 / 89
p0 222.4 ± 0.1668
250
240
230
220
210
200

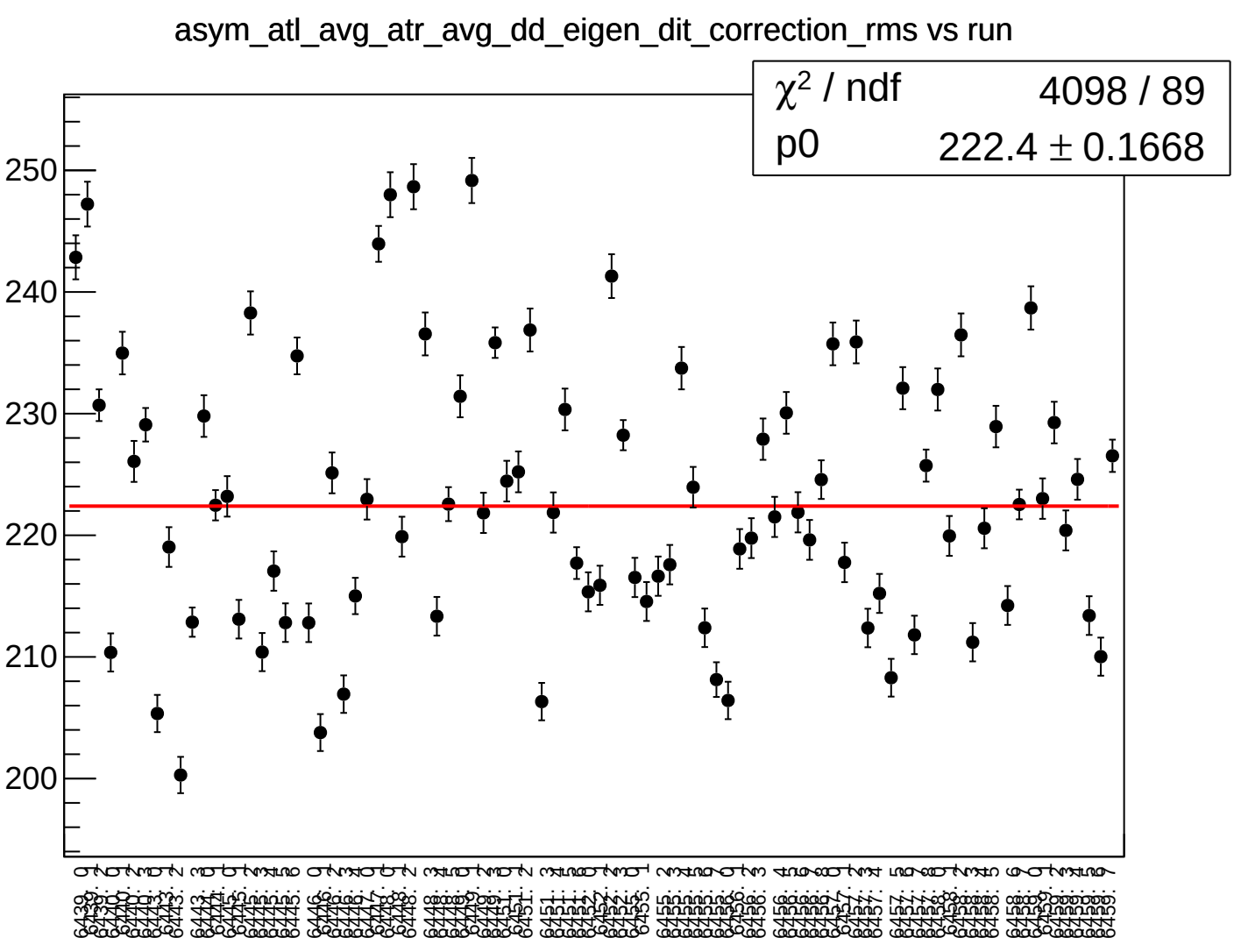

eigen_dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 95.03 / 89
p0 −450.9 ± 1360
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −295.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

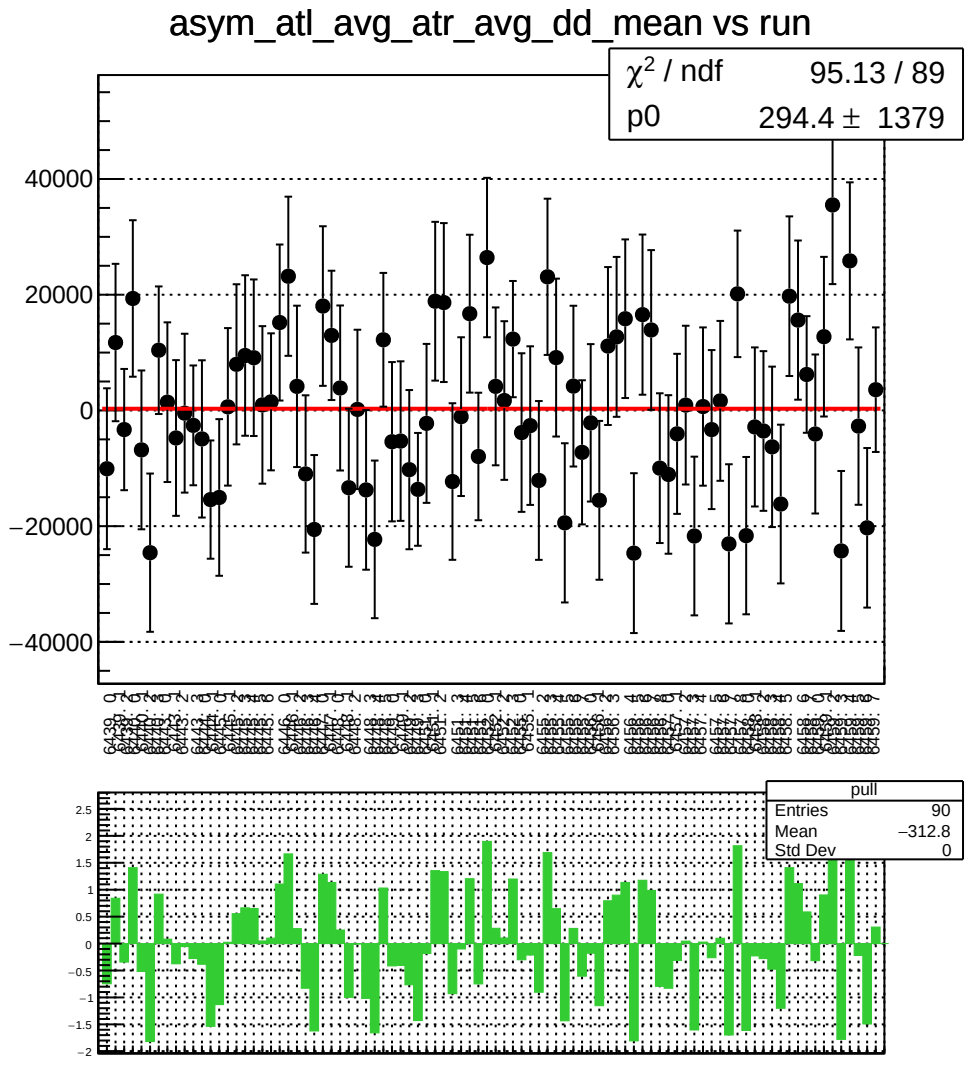

pull1D
Entries 90
Mean −0.004063
Std Dev 1.028
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

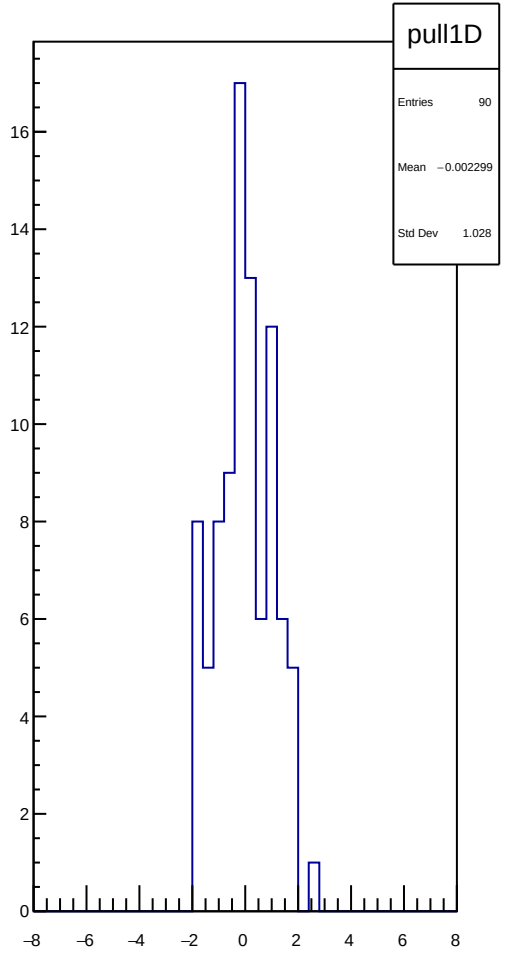

eigen_dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 111 / 89
p0 1283 ± 0.9615
1340
1320
1300
1280
1260

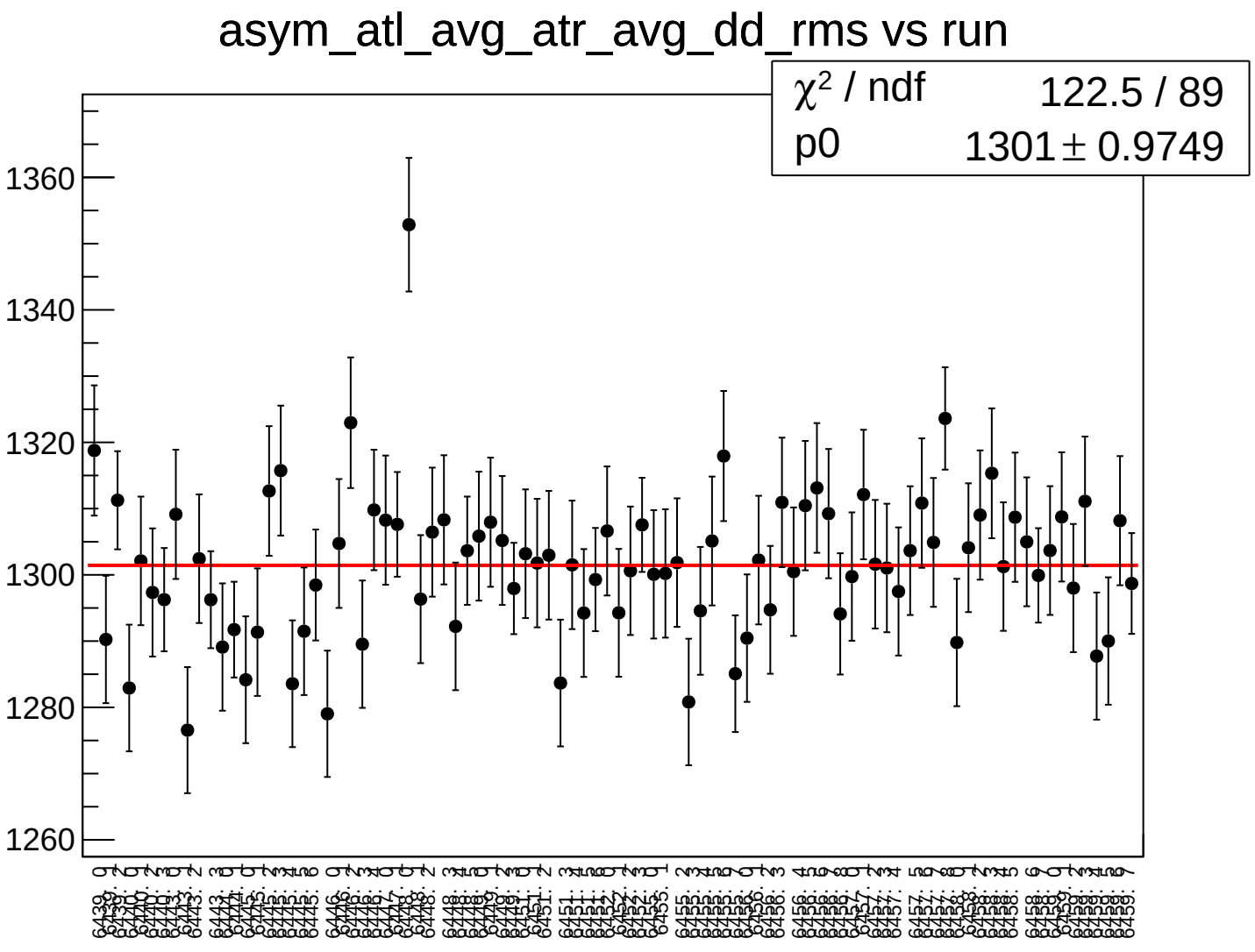

asym_atl_avg_atr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 72.26 / 89
p0 −733.2 ± 235.9
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 90
Mean −210.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

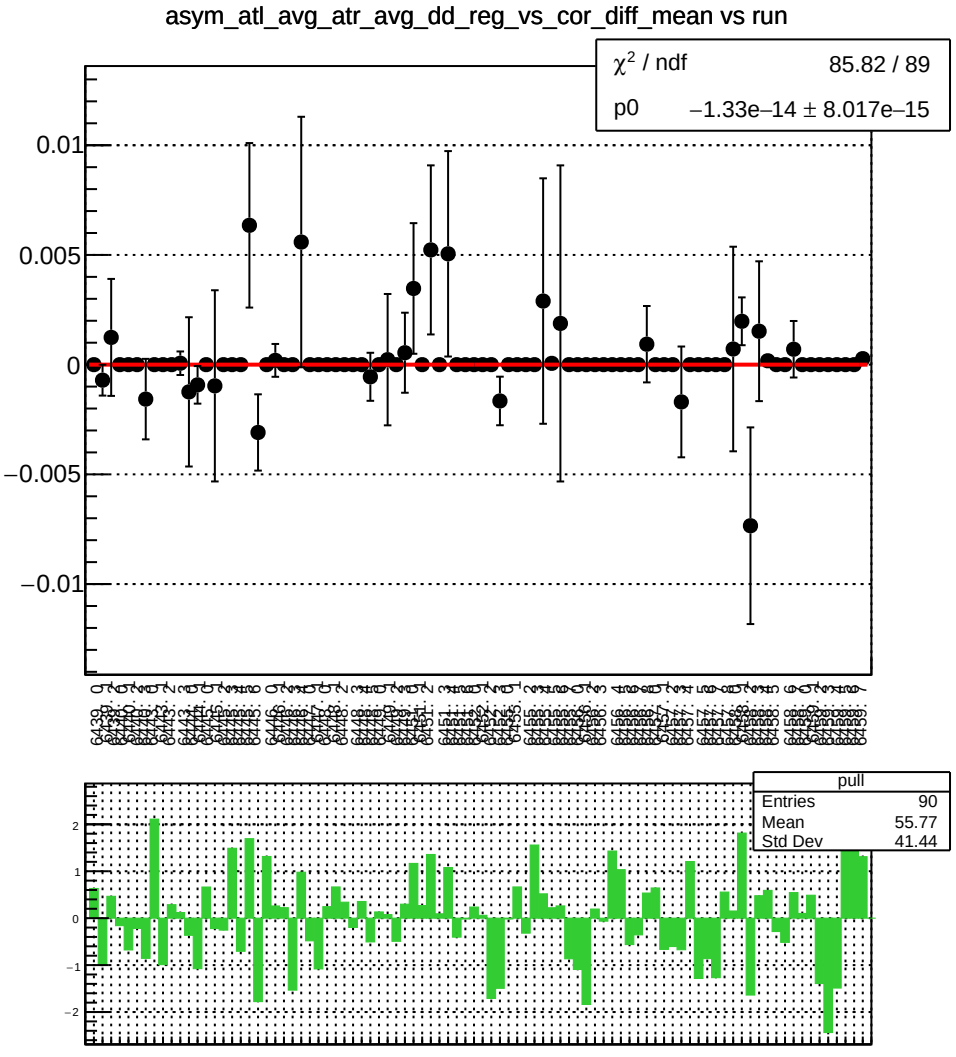

pull1D
Entries 90
Mean −0.01275
Std Dev 0.896
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

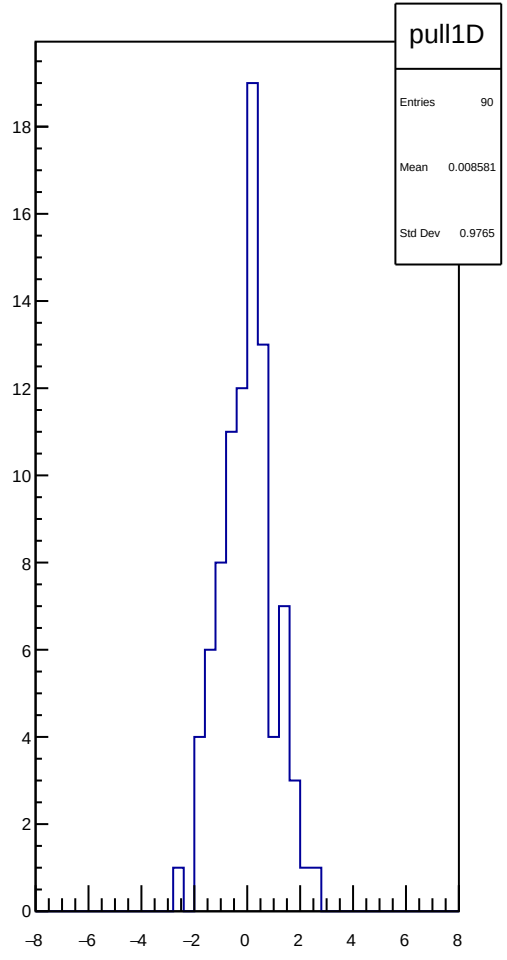

asym_atl_avg_atr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 4098 / 89
p0 222.4 ± 0.1668
250
240
230
220
210
200

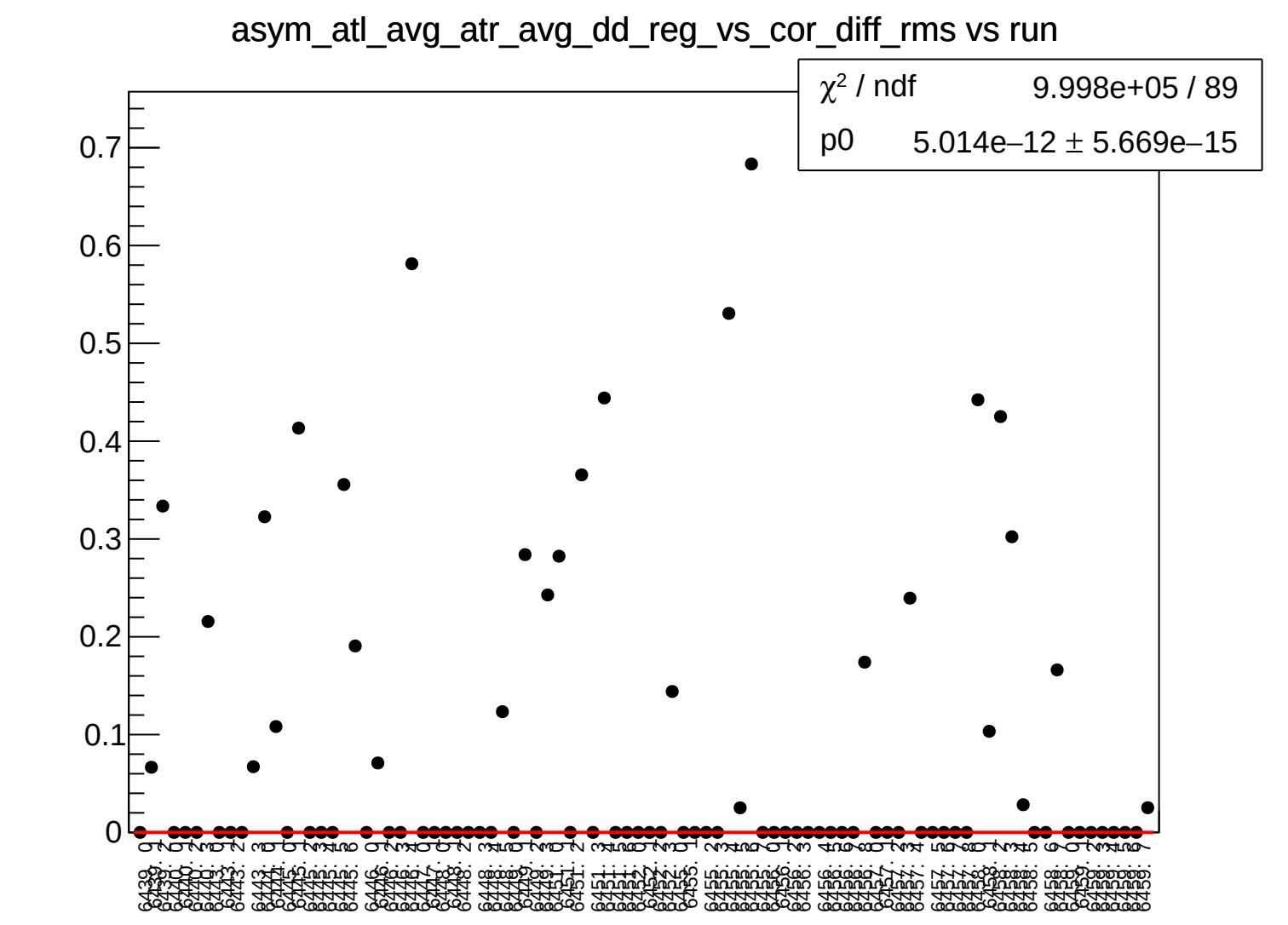

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 95.13 / 89
p0 294.4 ± 1379
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −312.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

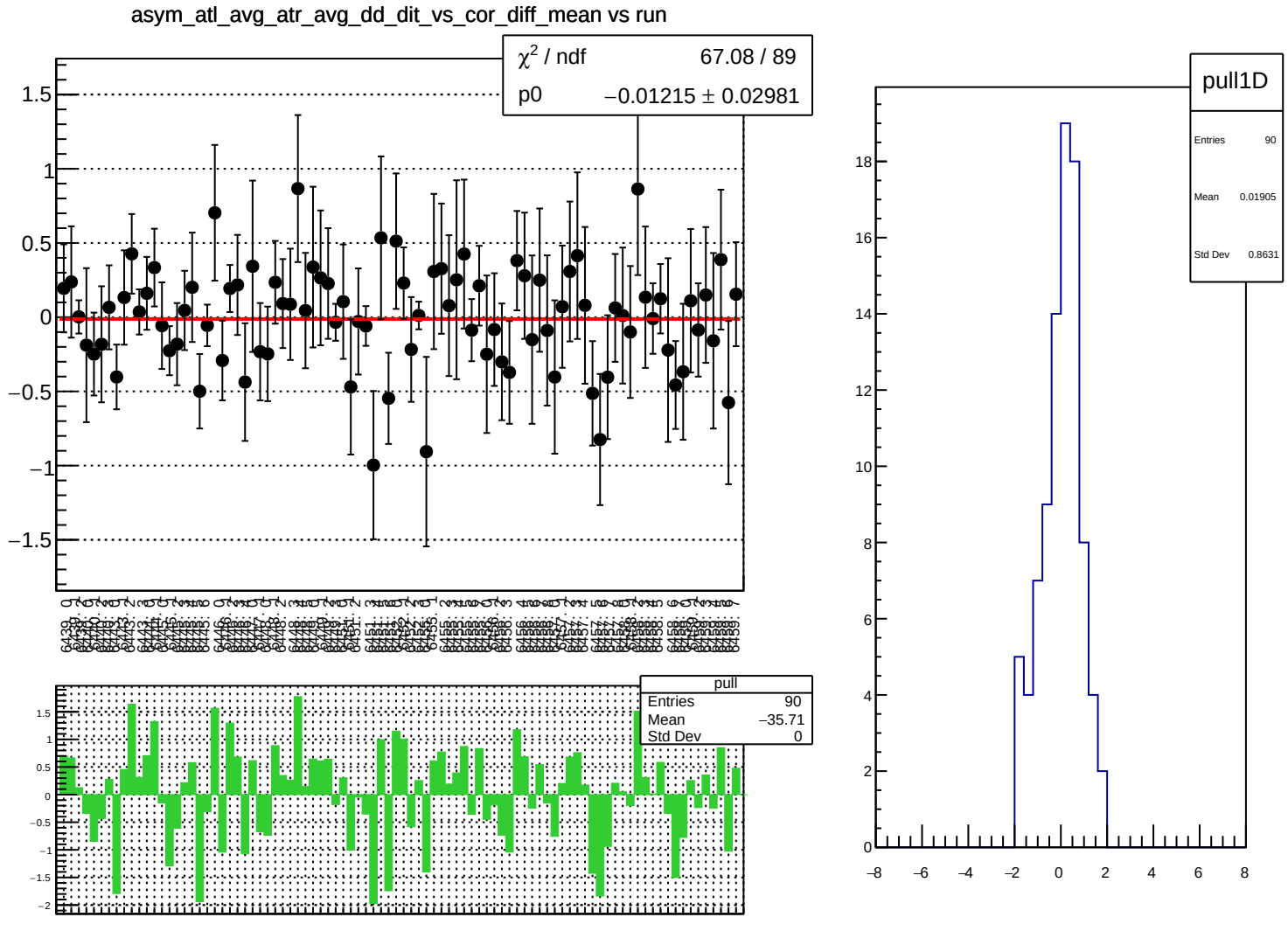

pull1D
Entries 90
Mean −0.002299
Std Dev 1.028
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

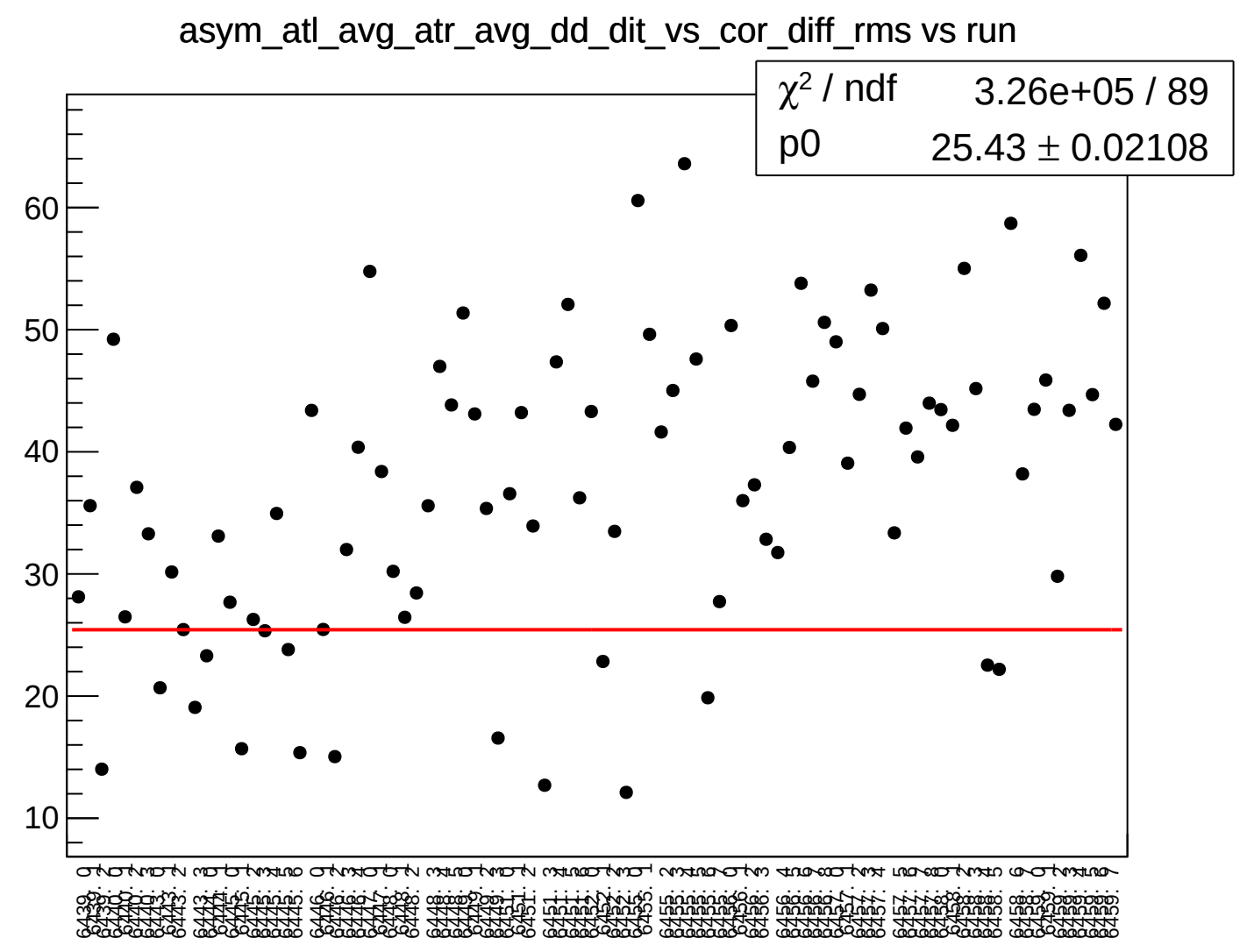

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 122.5 / 89
p0 1301 ± 0.9749
1360
1340
1320
1300
1280
1260

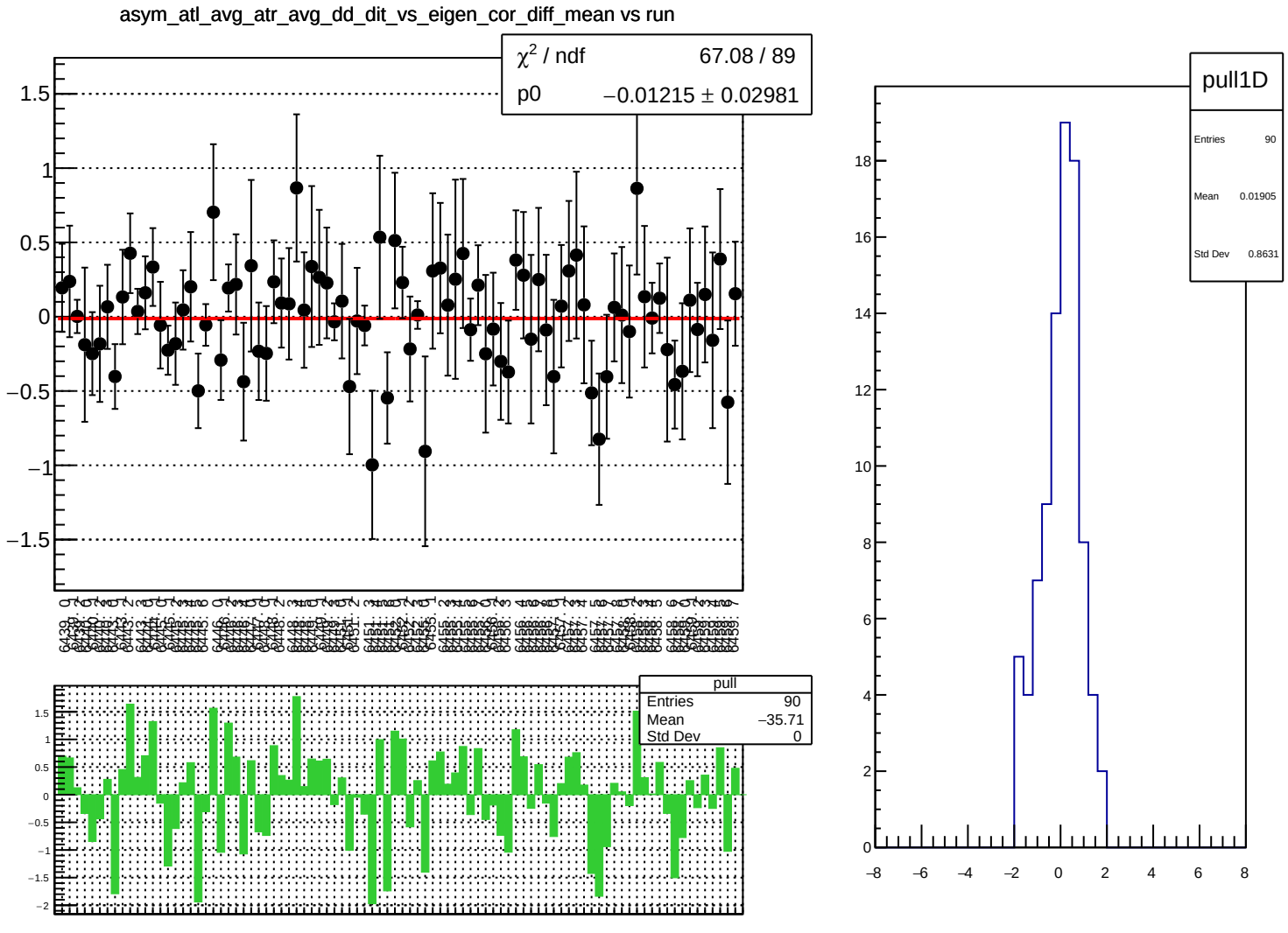

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 85.82 / 89
p0 −1.33e−14 ± 8.017e−15
0.01
0.005
0
−0.005
−0.01
pull
Entries 90
Mean 55.77
Std Dev 41.44
2
1
0
−1
−2

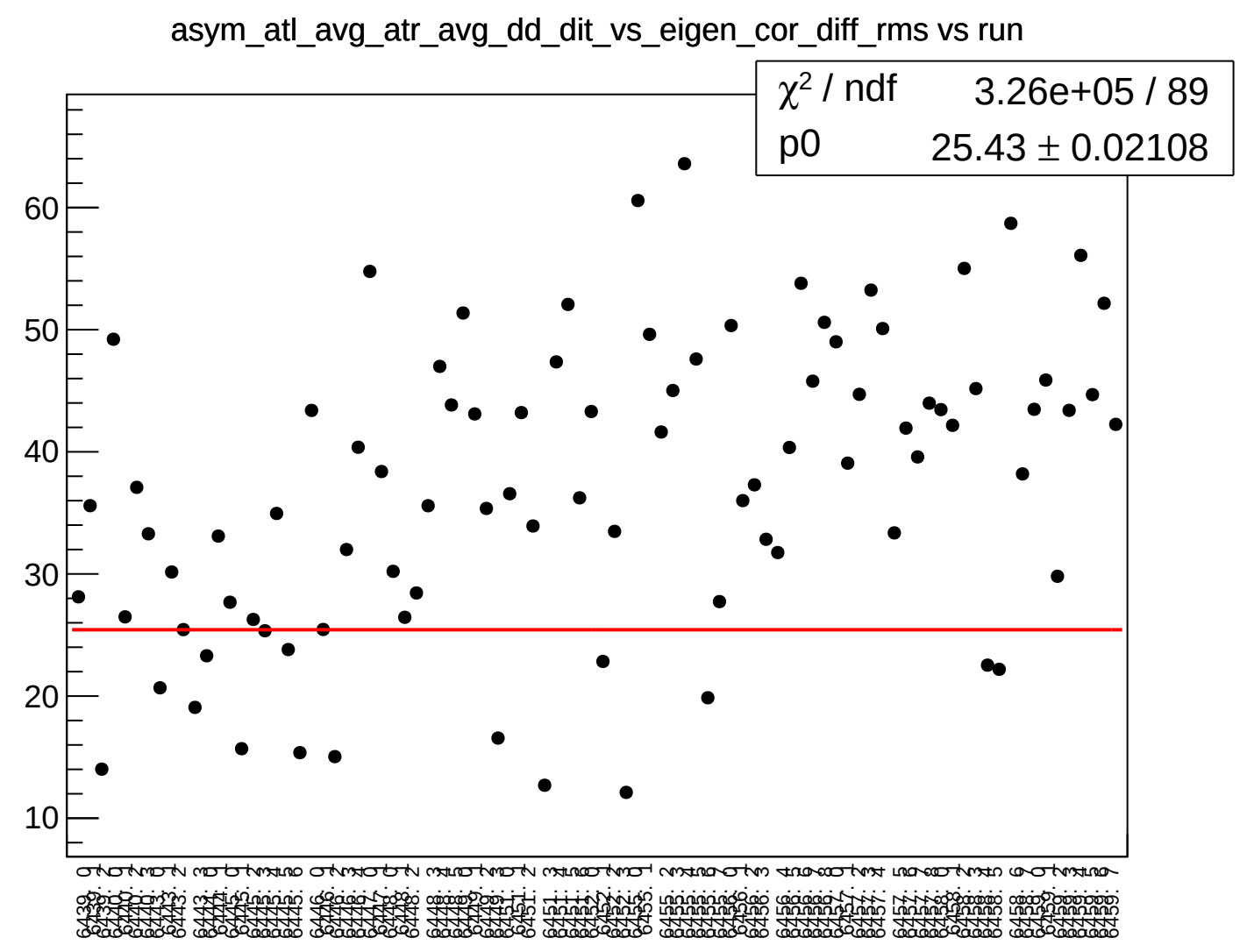

pull1D
Entries 90
Mean 0.008581
Std Dev 0.9765
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

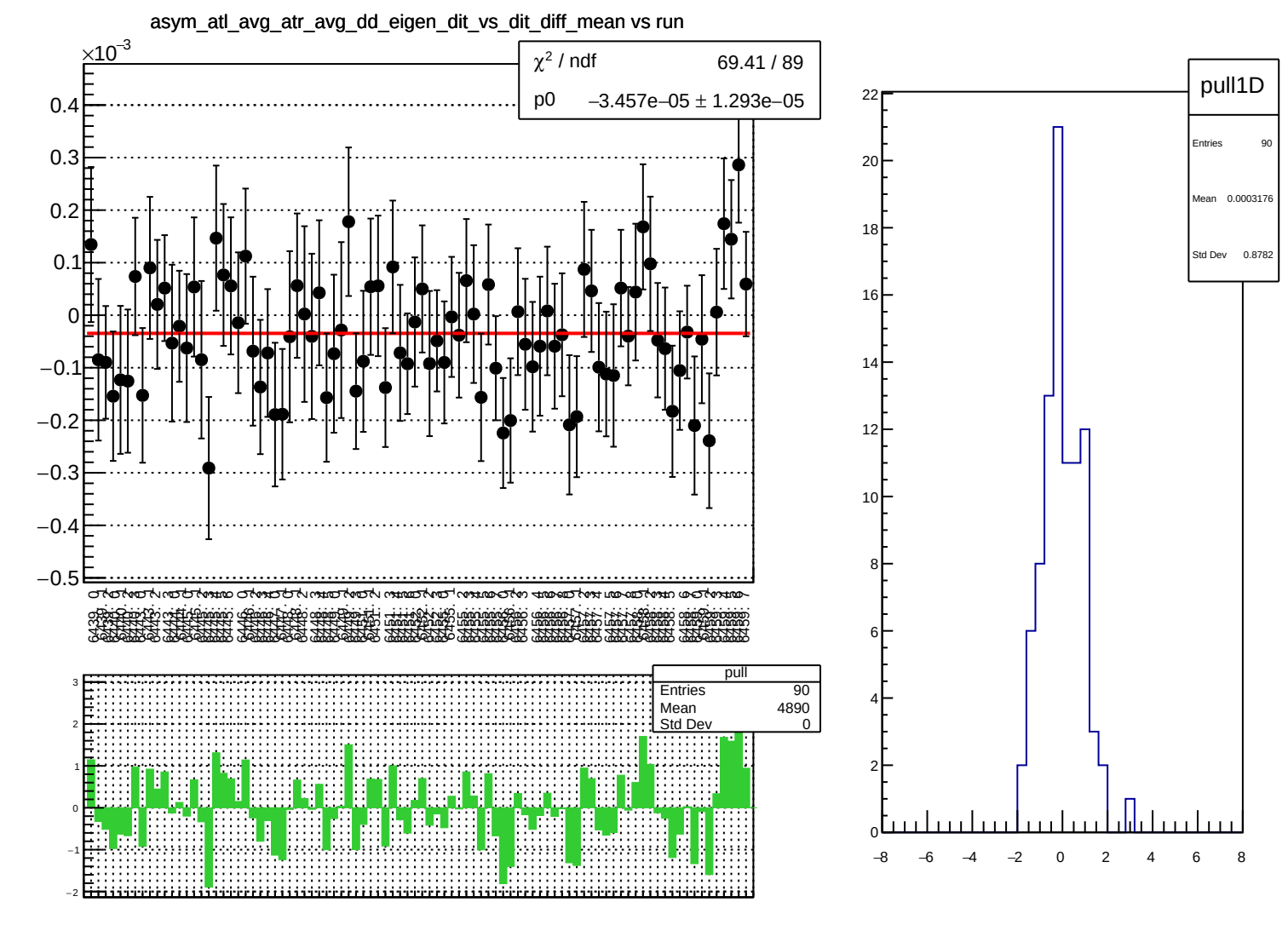

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.998e+05 / 89
p0 5.014e−12 ± 5.669e−15
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

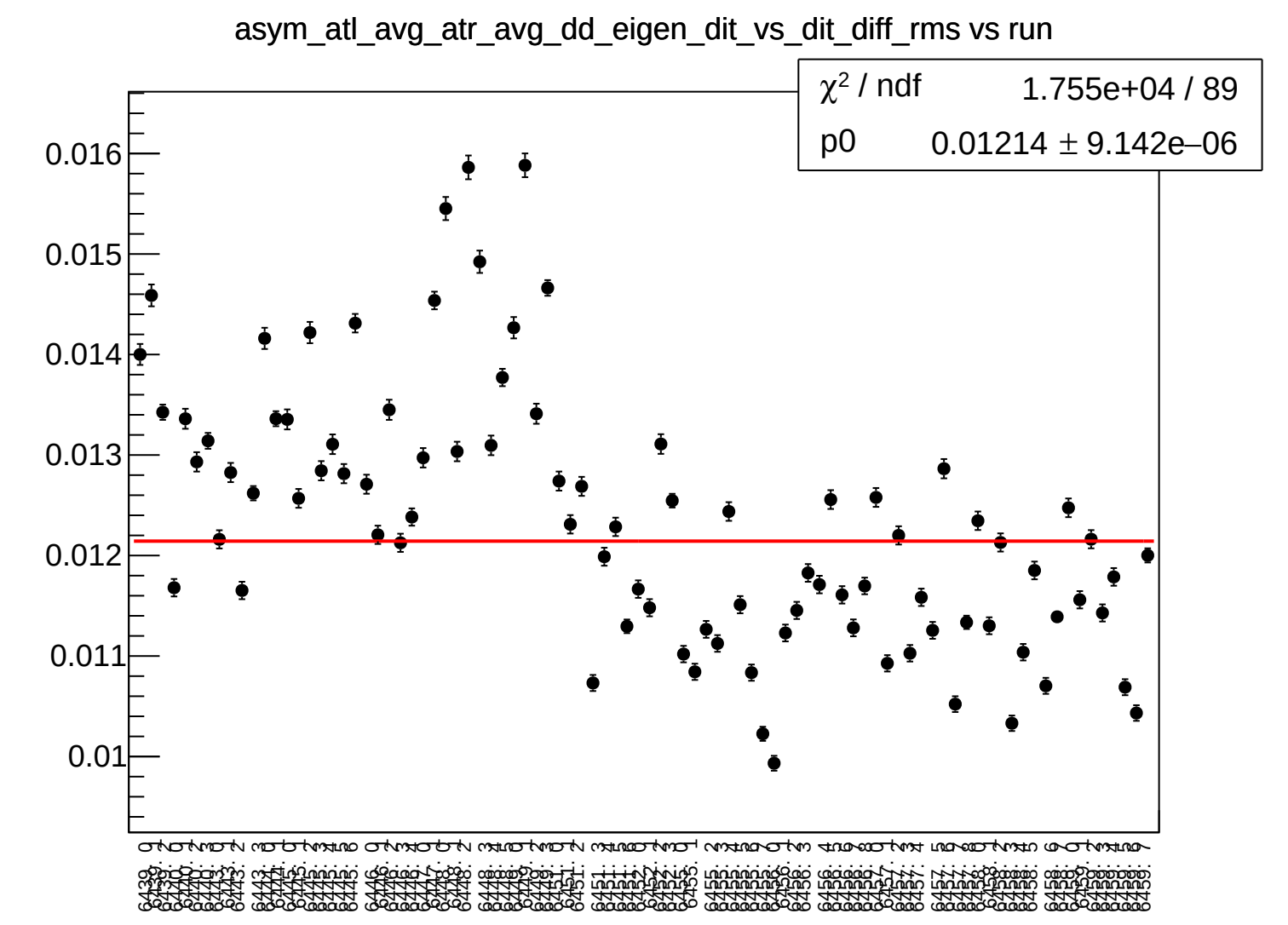

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 67.08 / 89
p0 −0.01215 ± 0.02981
pull
Entries 90
Mean −35.71
Std Dev 0
pull1D
Entries 90
Mean 0.01905
Std Dev 0.8631

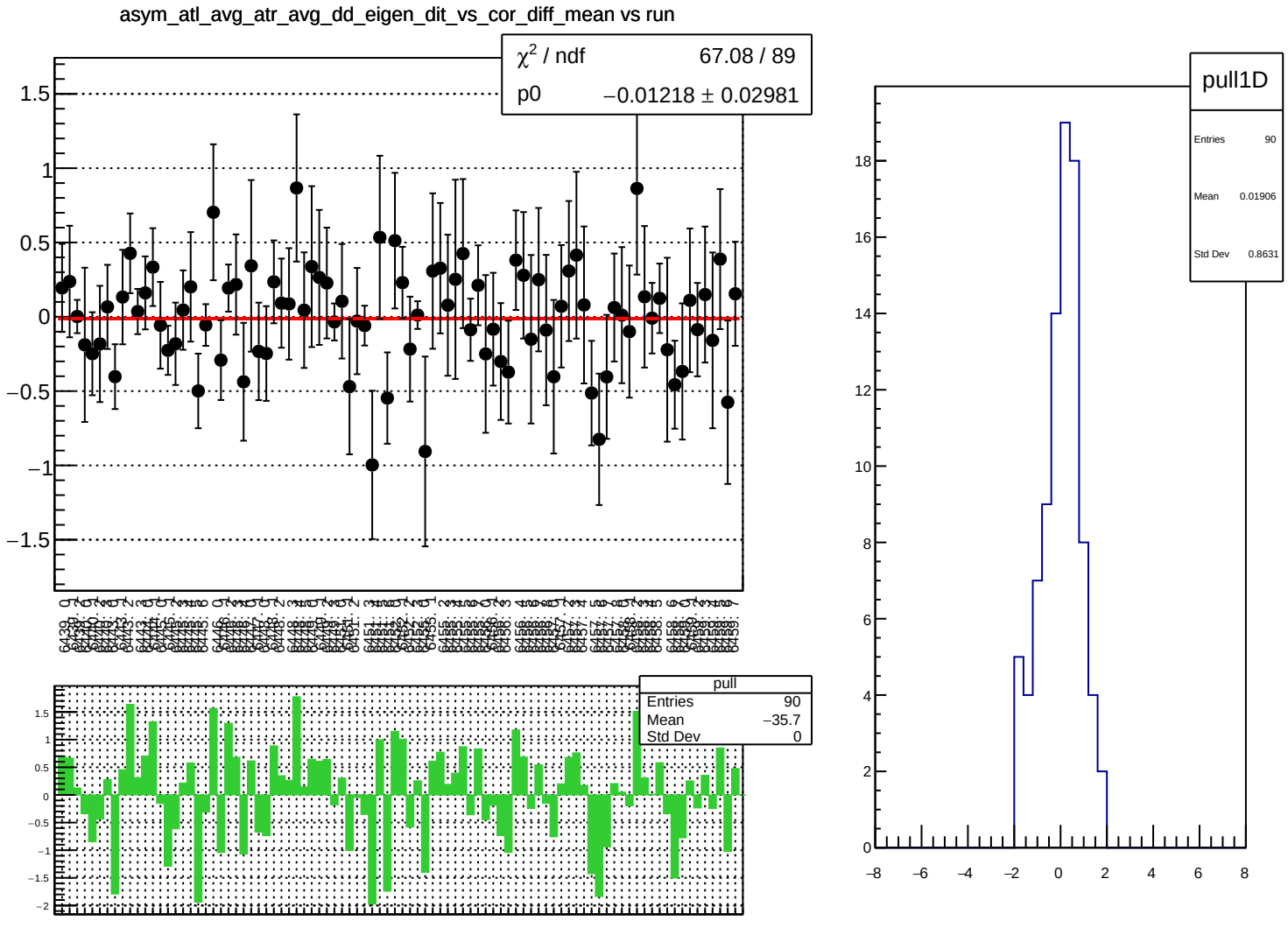

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.26e+05 / 89
p0 25.43 ± 0.02108
60
50
40
30
20
10

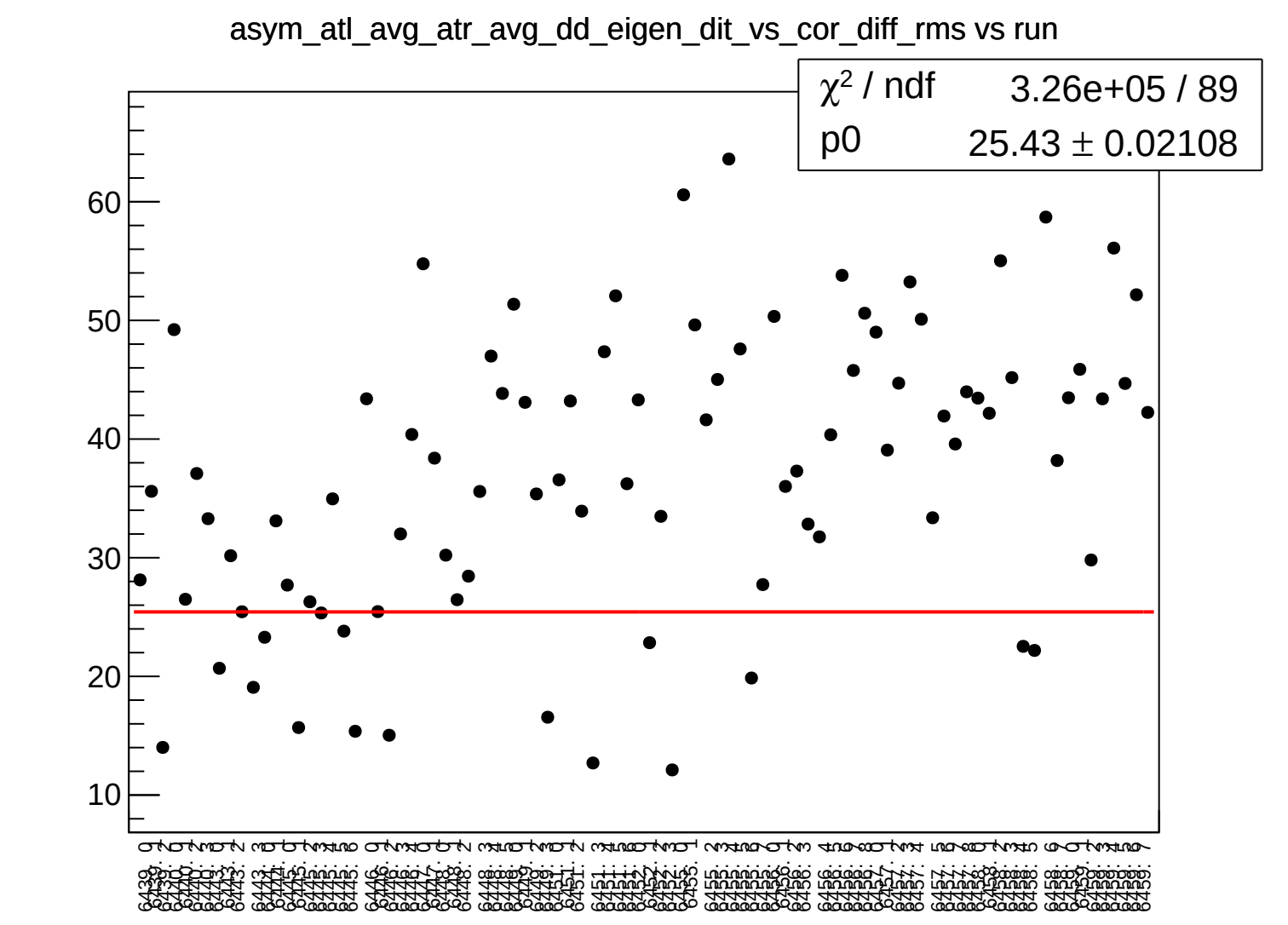

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.08 / 89
p0 −0.01215 ± 0.02981
pull
Entries 90
Mean −35.71
Std Dev 0
pull1D
Entries 90
Mean 0.01905
Std Dev 0.8631

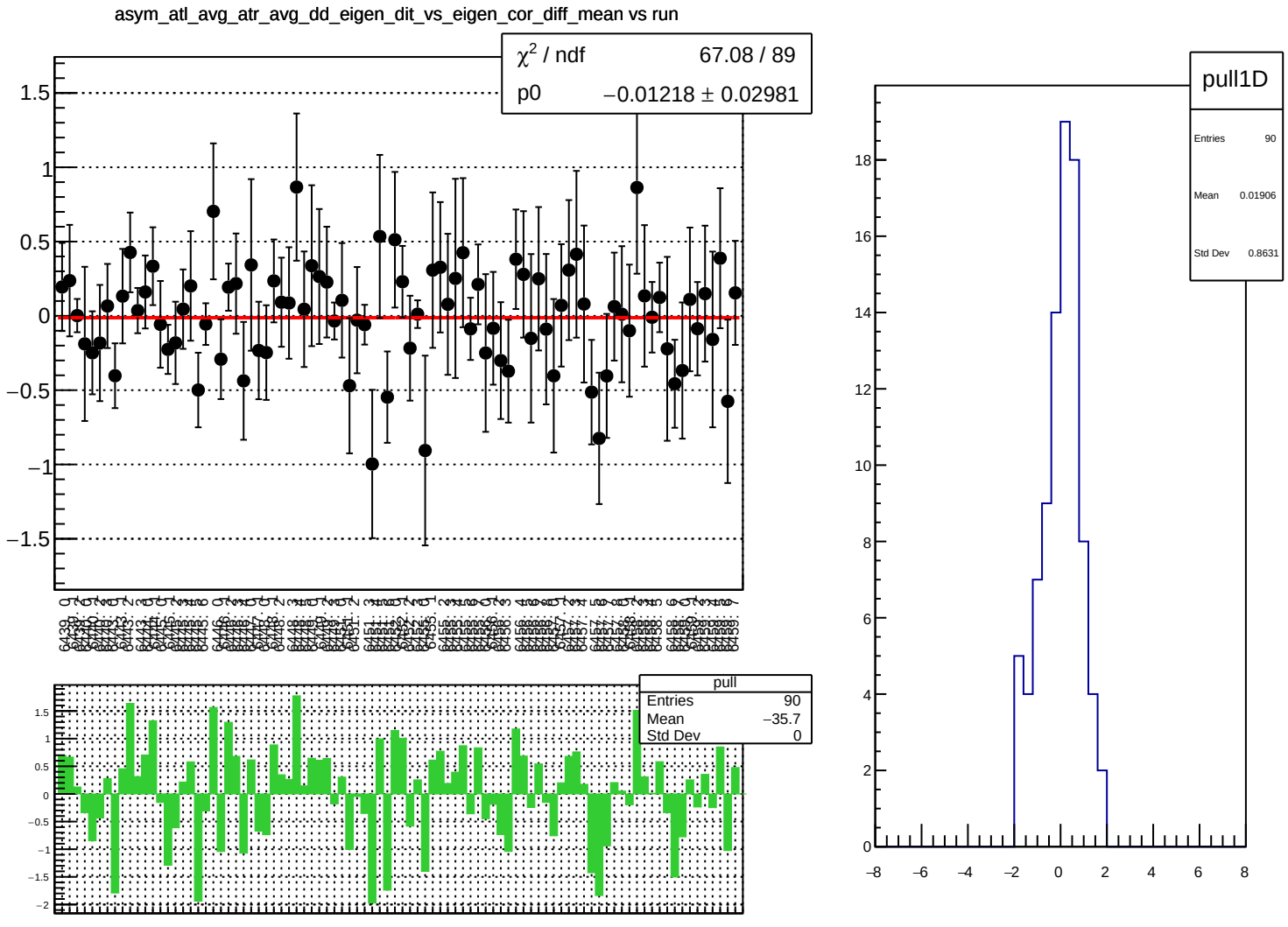

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.26e+05 / 89
p0 25.43 ± 0.02108
60
50
40
30
20
10

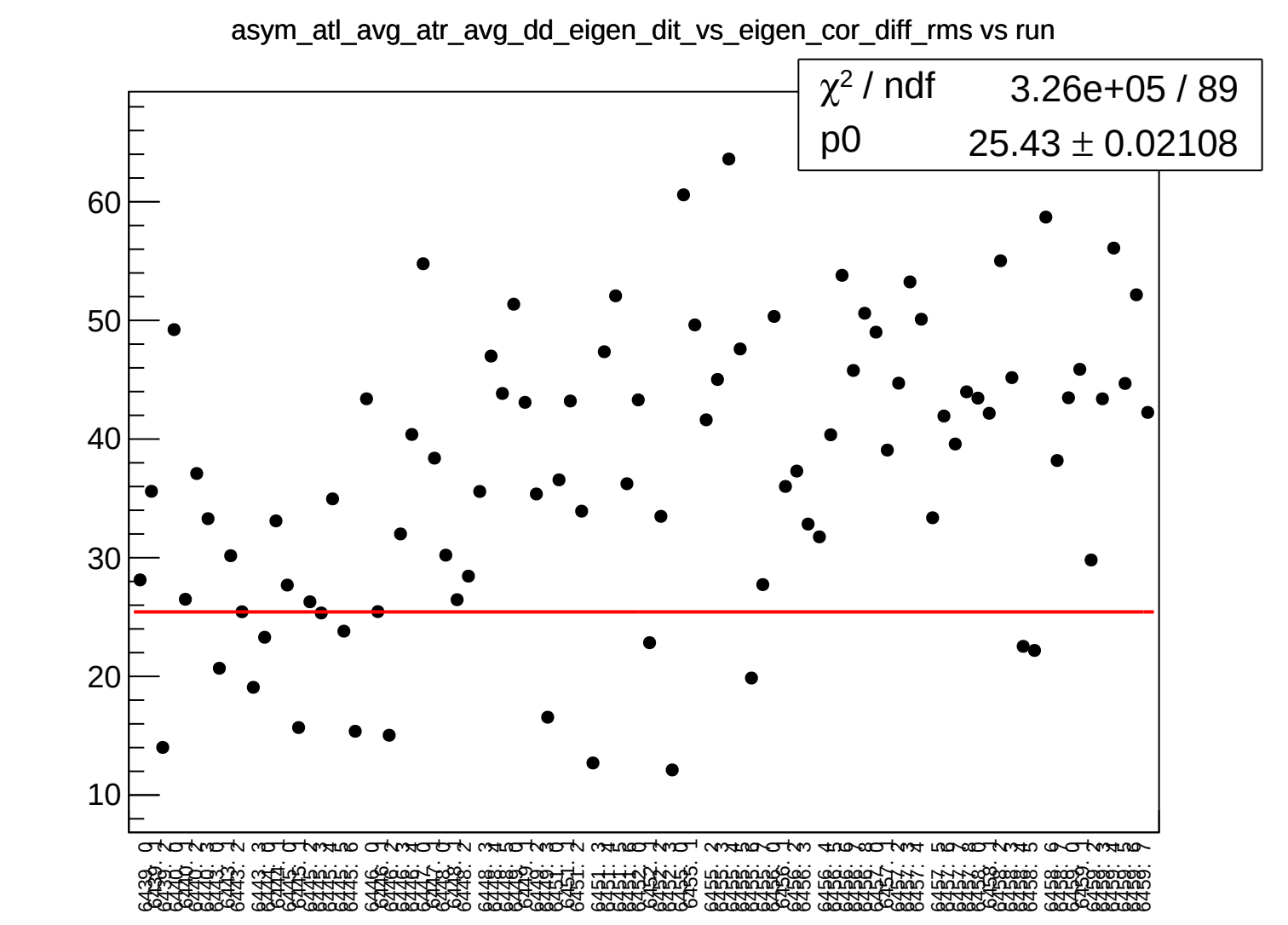

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 69.41 / 89
p0 −3.457e−05 ± 1.293e−05
pull
Entries 90
Mean 4890
Std Dev 0
pull1D
Entries 90
Mean 0.0003176
Std Dev 0.8782

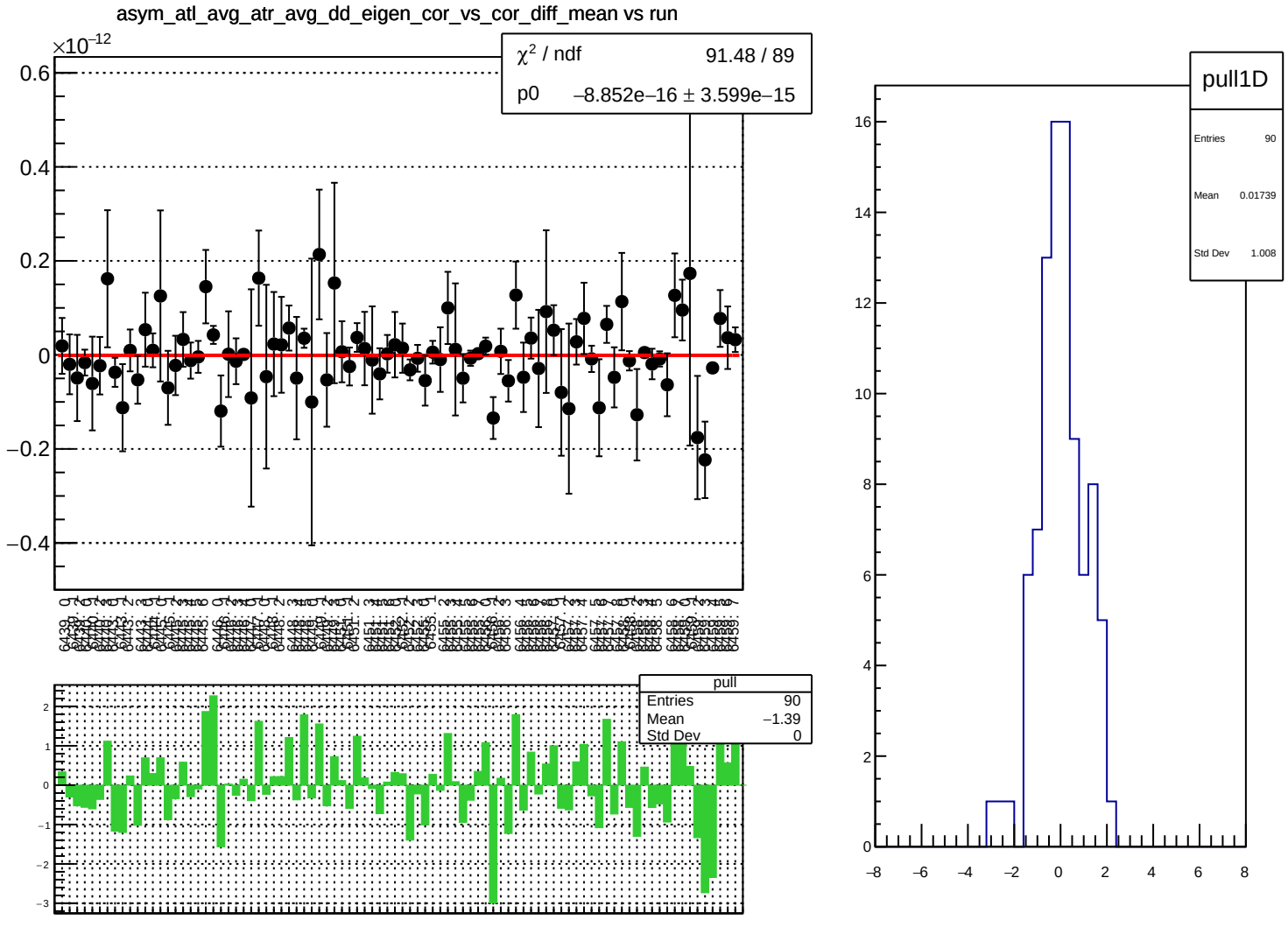

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.755e+04 / 89
p0 0.01214 ± 9.142e–06
0.016
0.015
0.014
0.013
0.012
0.011
0.01

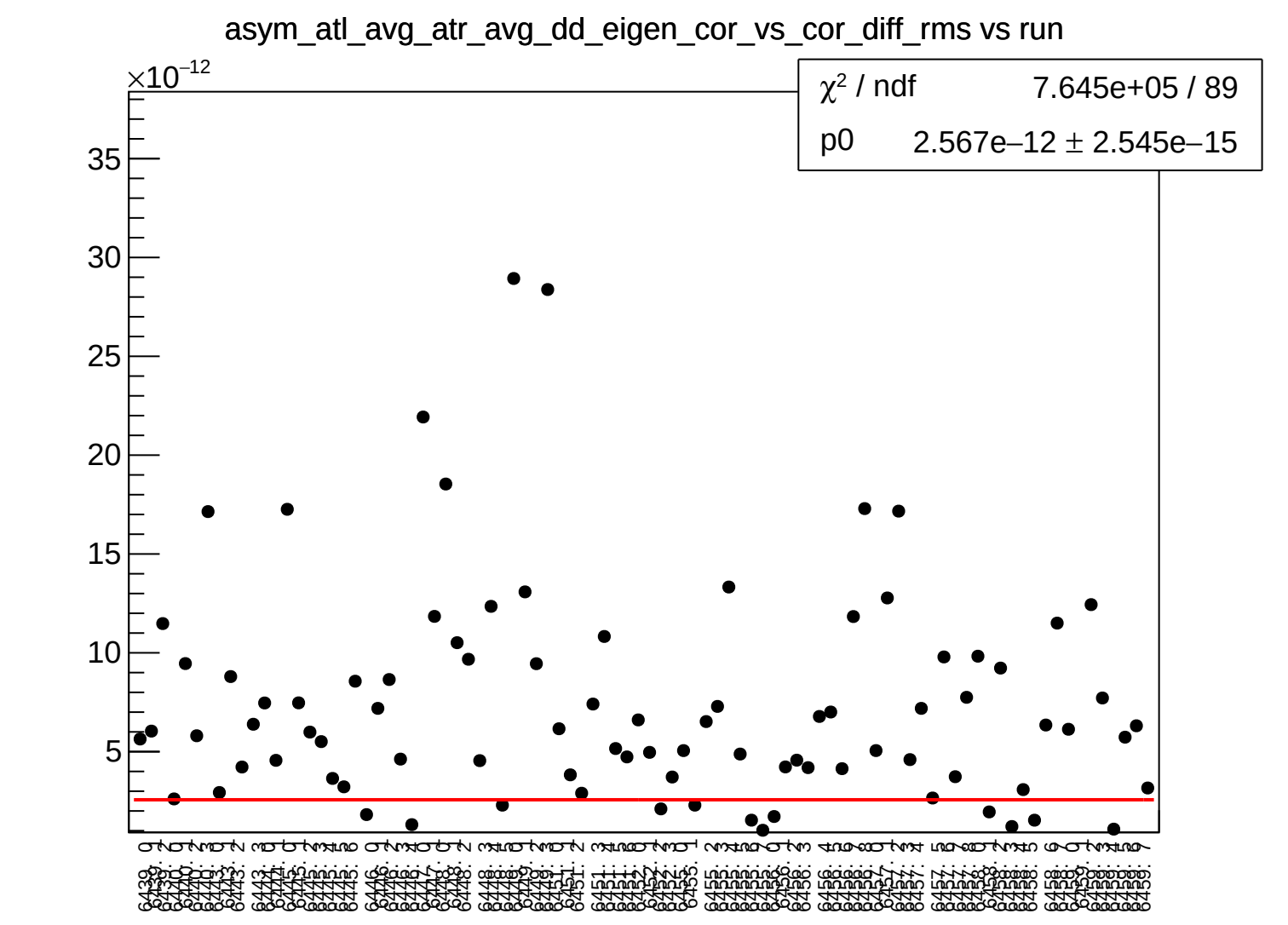

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 67.08 / 89
p0 −0.01218 ± 0.02981
pull
Entries 90
Mean −35.7
Std Dev 0
pull1D
Entries 90
Mean 0.01906
Std Dev 0.8631

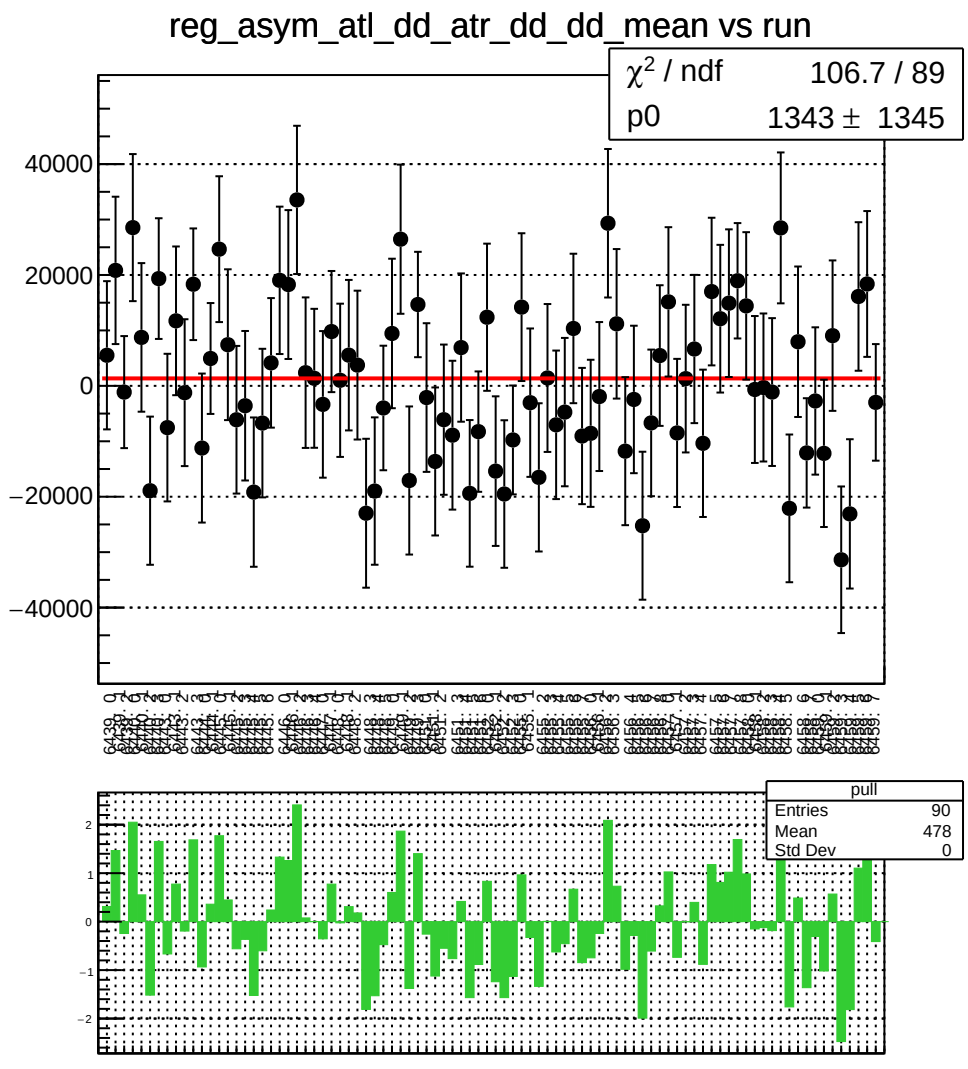

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.26e+05 / 89
p0 25.43 ± 0.02108
60
50
40
30
20
10

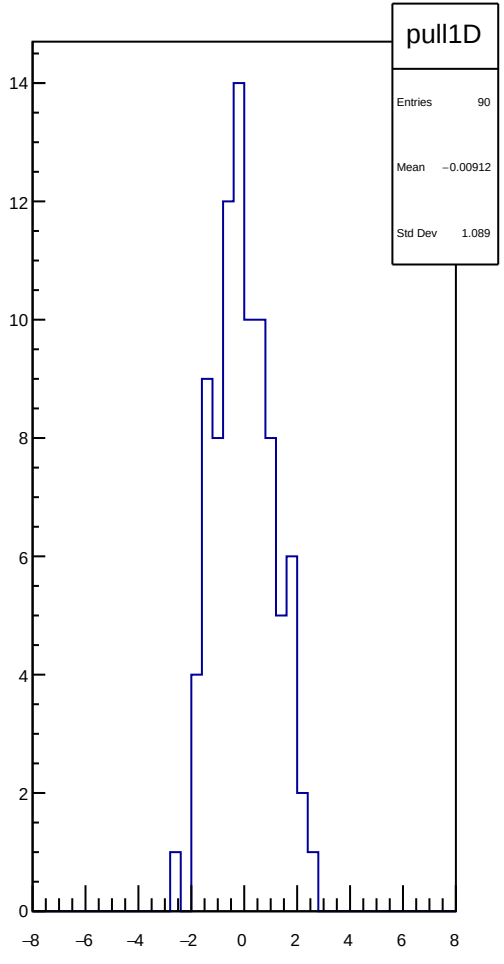

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.08 / 89
p0 −0.01218 ± 0.02981
pull
Entries 90
Mean −35.7
Std Dev 0
pull1D
Entries 90
Mean 0.01906
Std Dev 0.8631

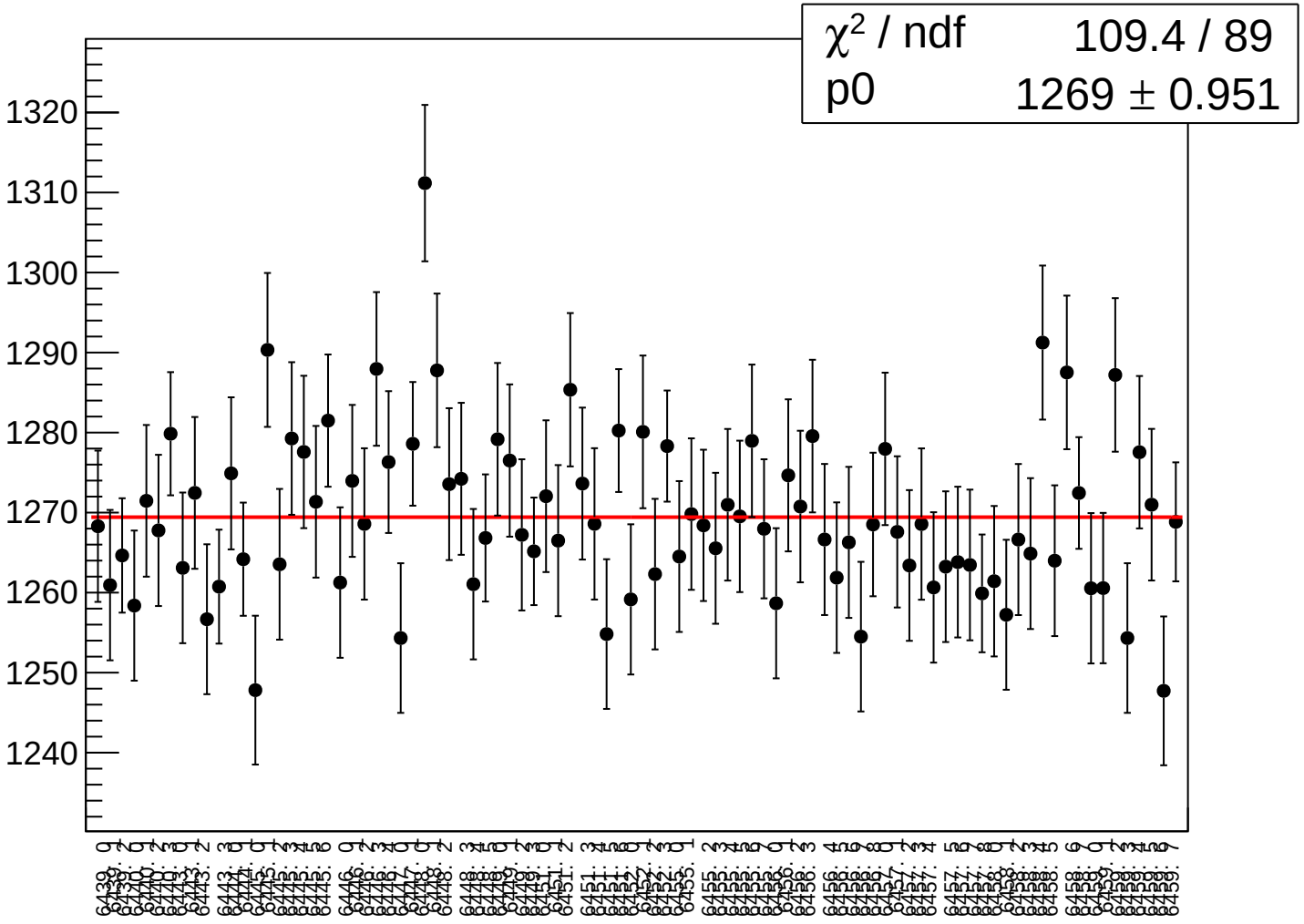

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.26e+05 / 89
p0 25.43 ± 0.02108
60
50
40
30
20
10

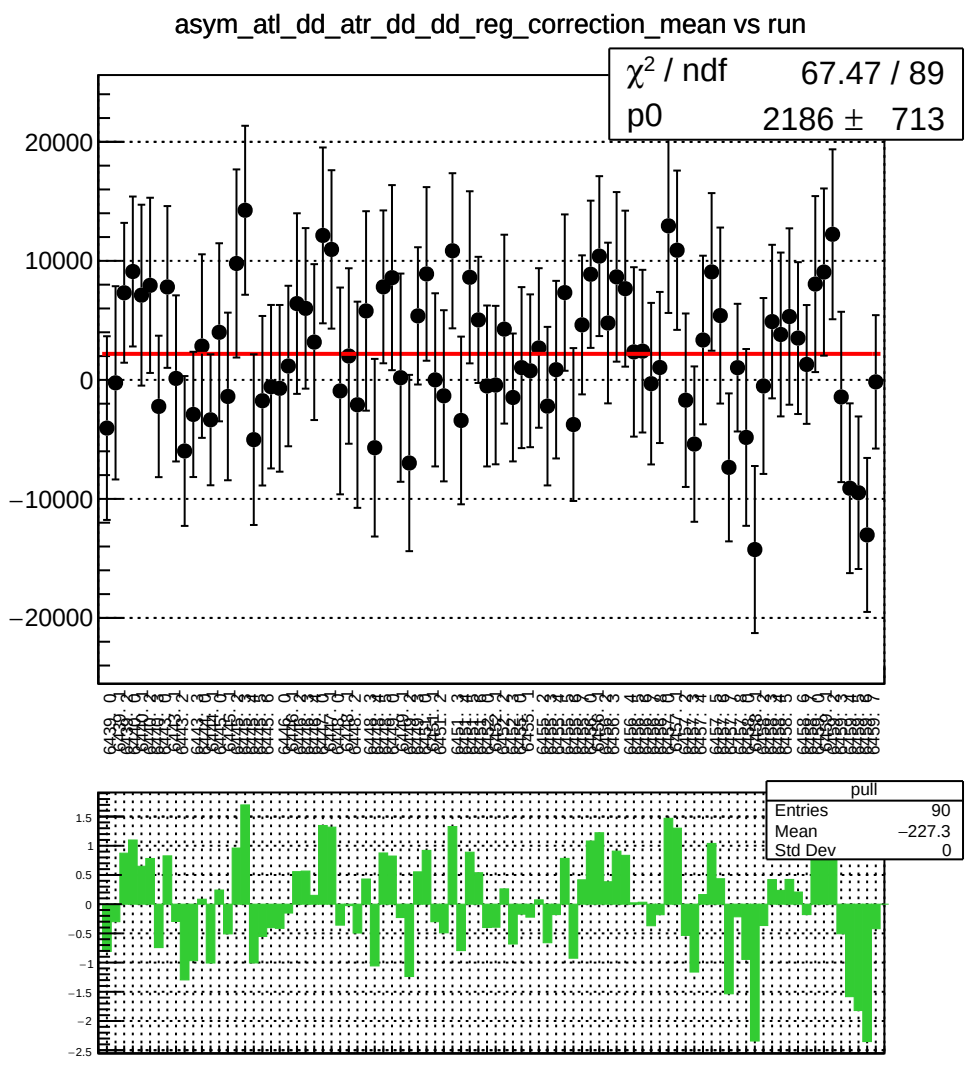

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.48 / 89
p0 −8.852e−16 ± 3.599e−15
pull
Entries 90
Mean −1.39
Std Dev 0
pull1D
Entries 90
Mean 0.01739
Std Dev 1.008

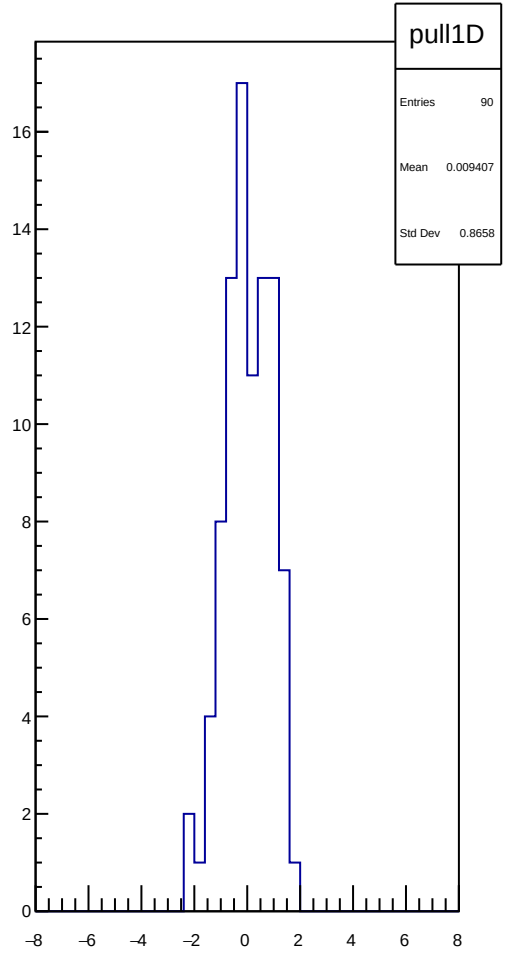

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.645e+05 / 89
p0 2.567e−12 ± 2.545e−15
35
30
25
20
15
10
5

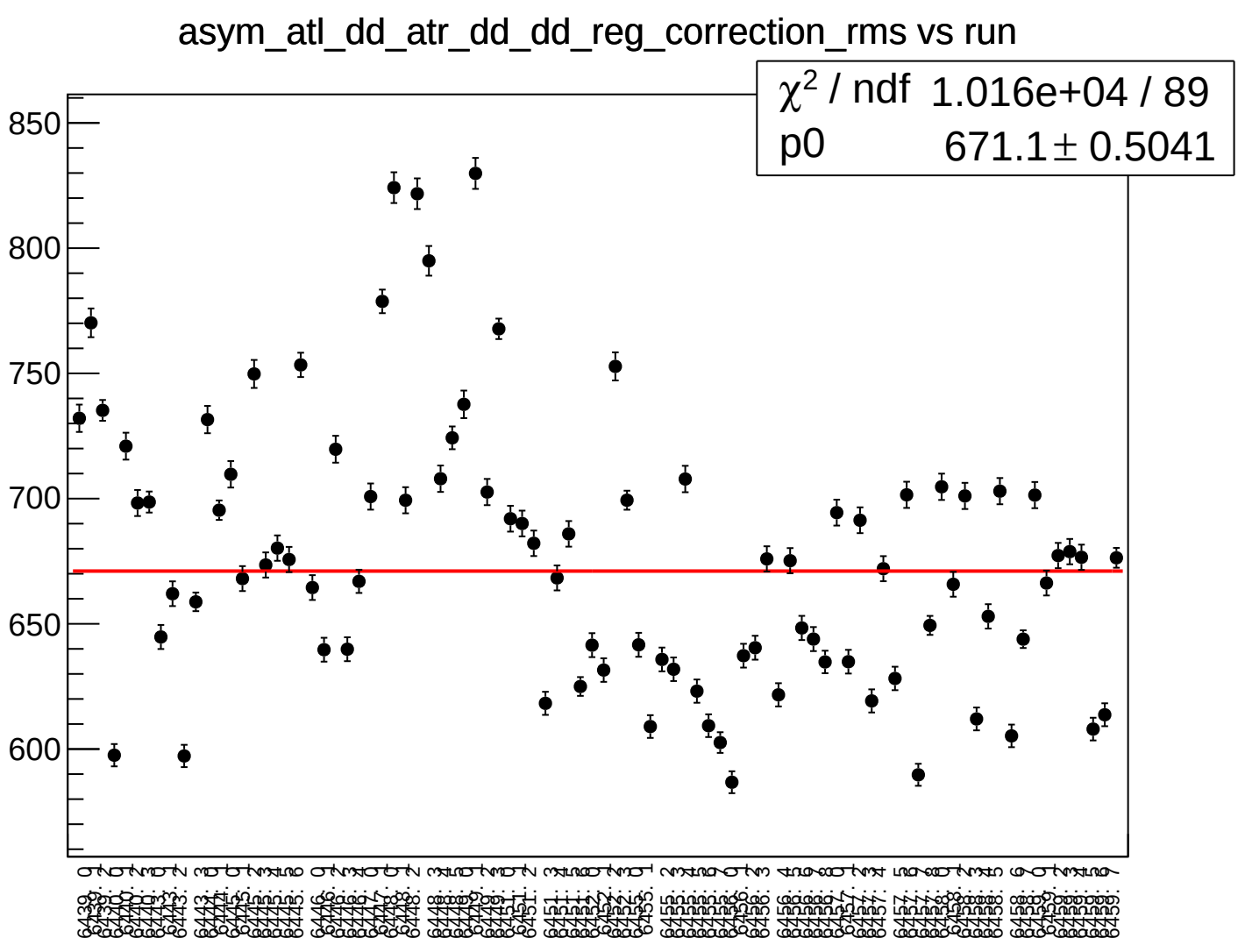

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 106.7 / 89
p0 1343 ± 1345
40000
20000
0
−20000
−40000
pull
Entries 90
Mean 478
Std Dev 0
2
1
0
−1
−2

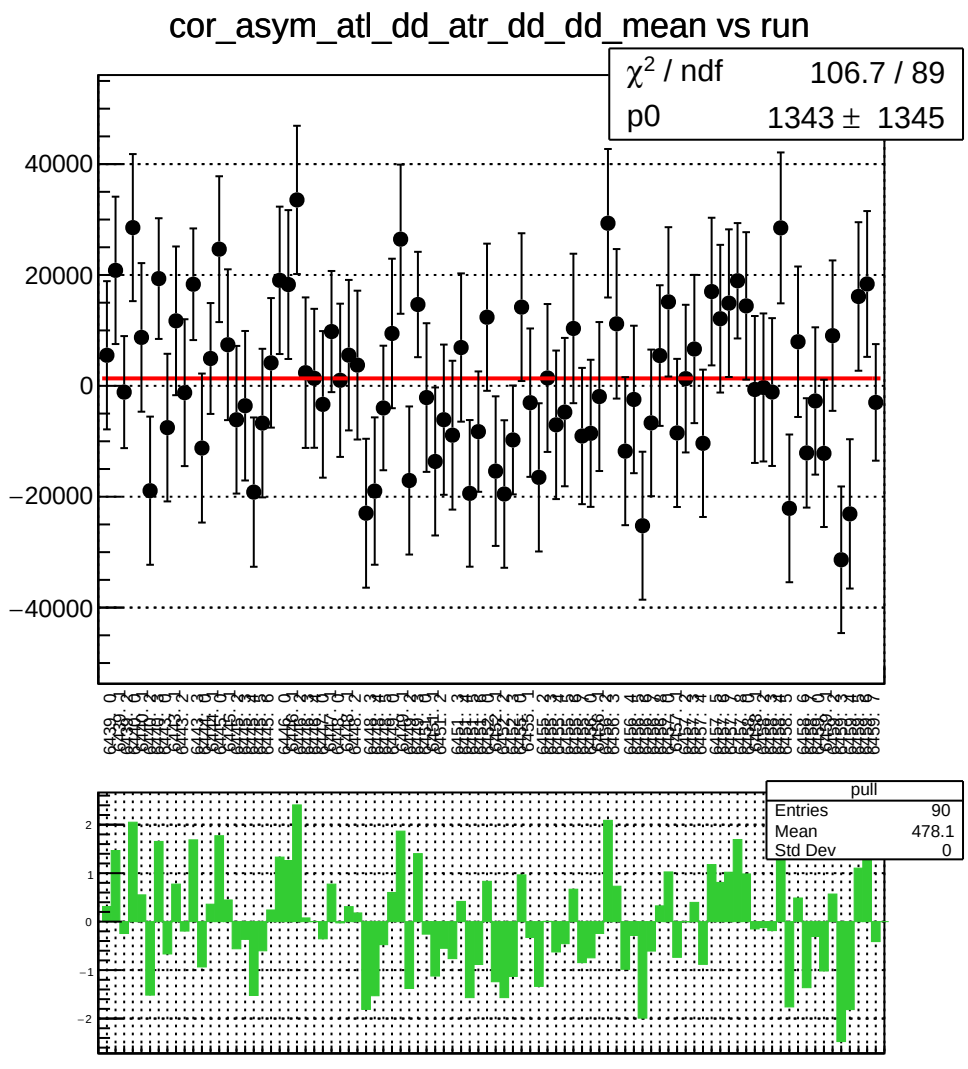

pull1D
Entries 90
Mean −0.00912
Std Dev 1.089
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

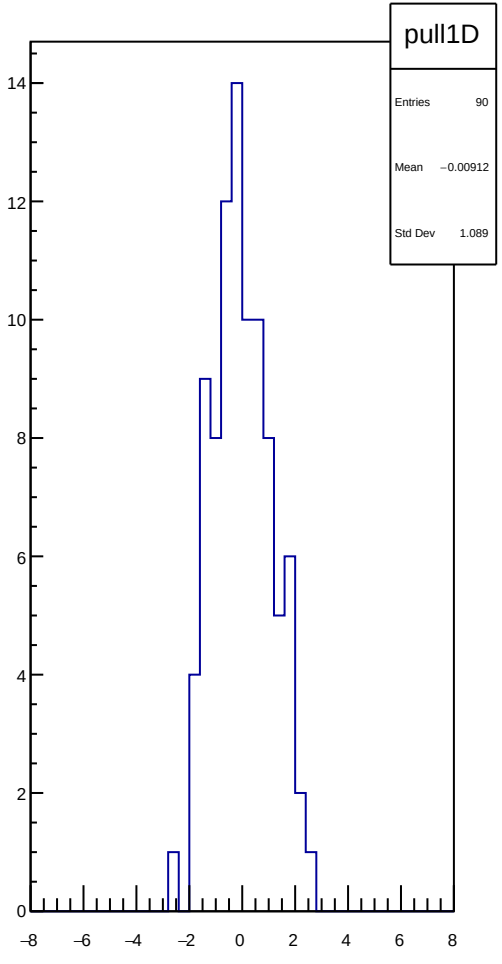

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 109.4 / 89
p0 1269 ± 0.951
1320
1310
1300
1290
1280
1270
1260
1250
1240

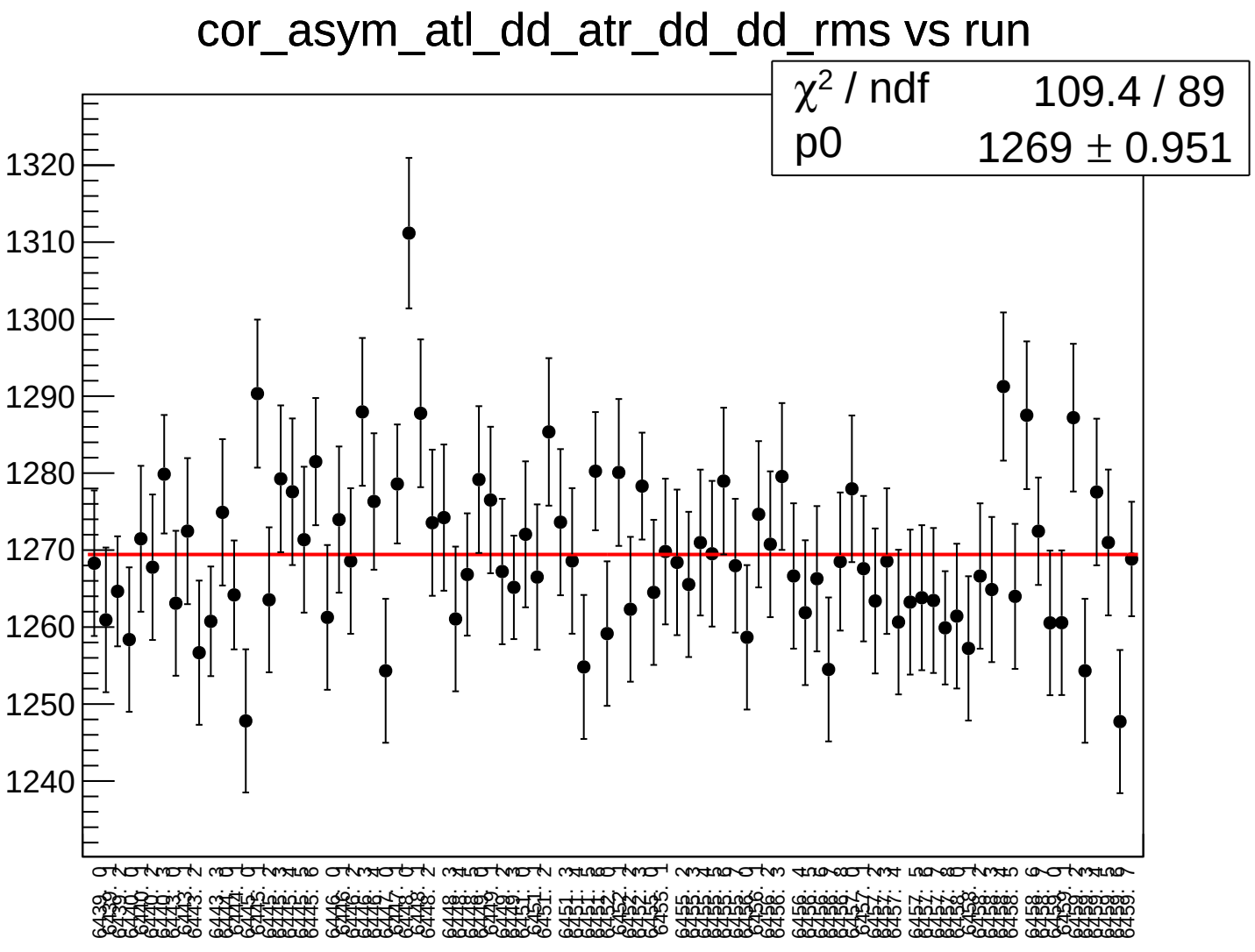

asym_atl_dd_atr_dd_dd_reg_correction_mean vs run
χ² / ndf 67.47 / 89
p0 2186 ± 713
20000
10000
0
−10000
−20000
pull
Entries 90
Mean −227.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

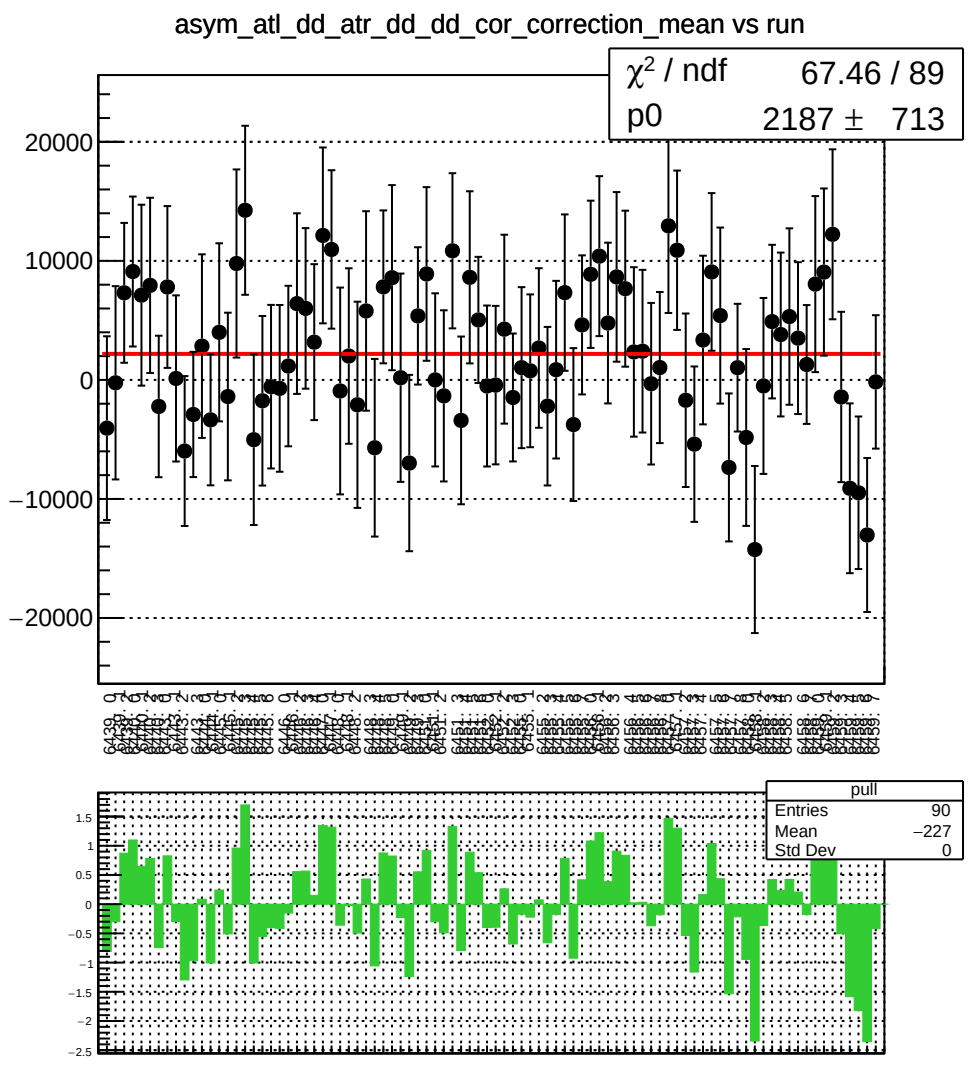

pull1D
Entries 90
Mean 0.009407
Std Dev 0.8658
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

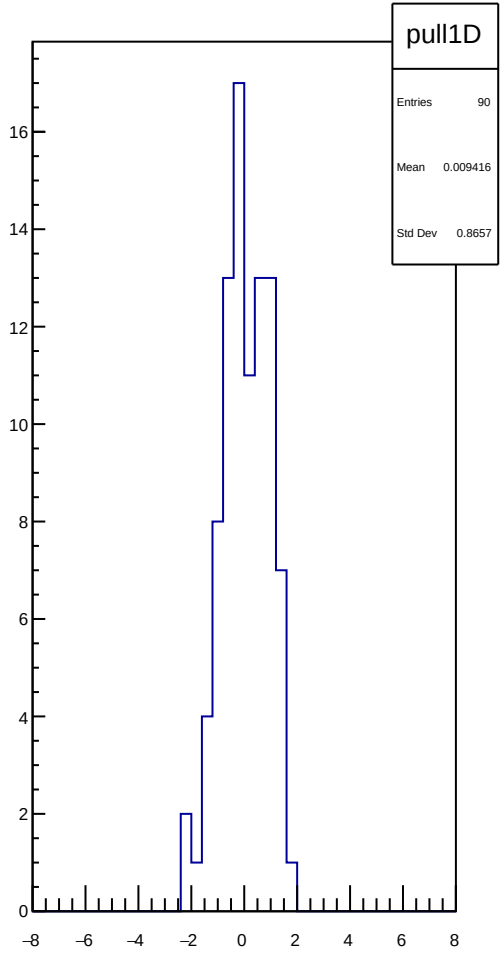

asym_atl_dd_atr_dd_dd_reg_correction_rms vs run
χ² / ndf 1.016e+04 / 89
p0 671.1 ± 0.5041
850
800
750
700
650
600

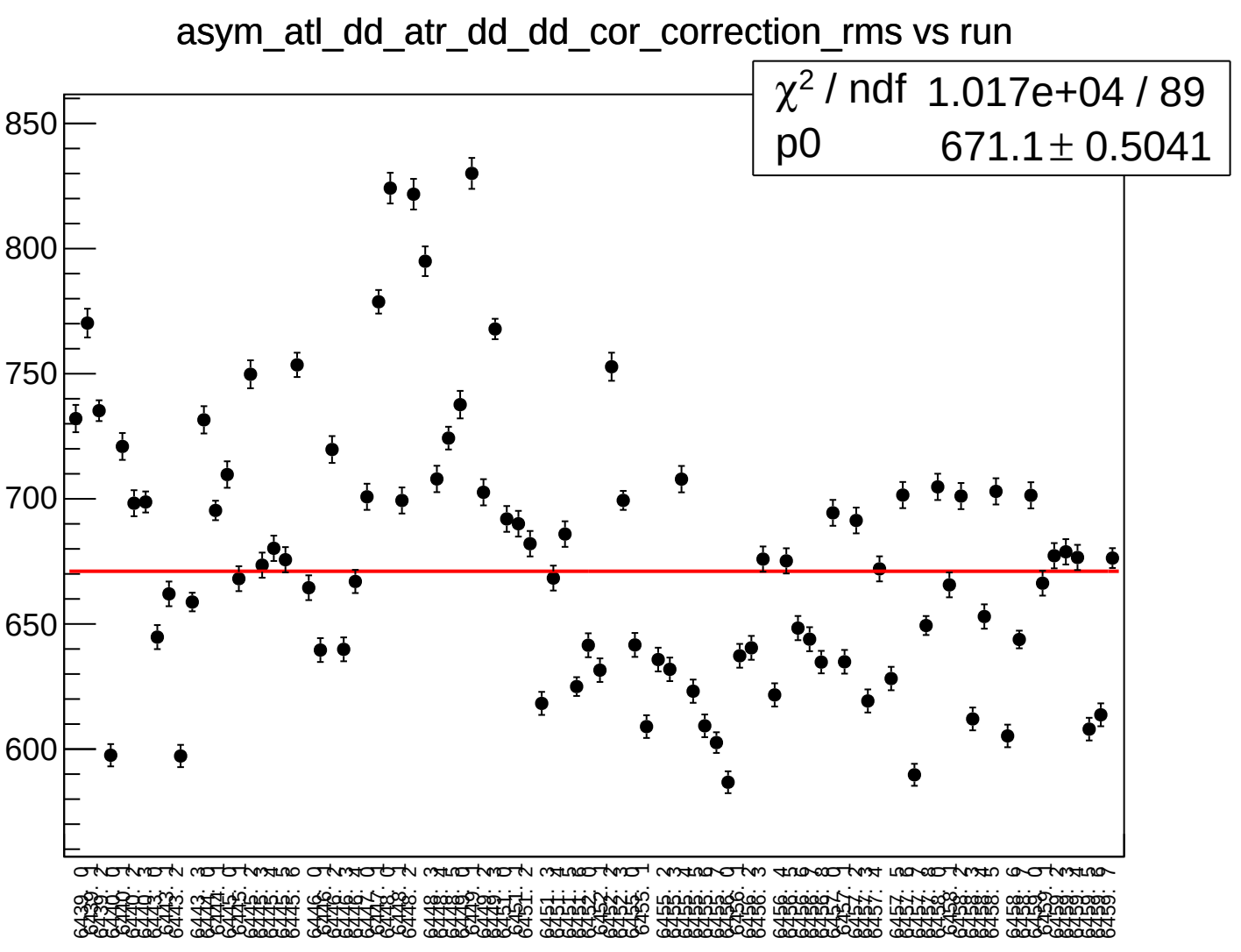

cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 106.7 / 89
p0 1343 ± 1345
40000
20000
0
−20000
−40000
pull
Entries 90
Mean 478.1
Std Dev 0
2
1
0
−1
−2

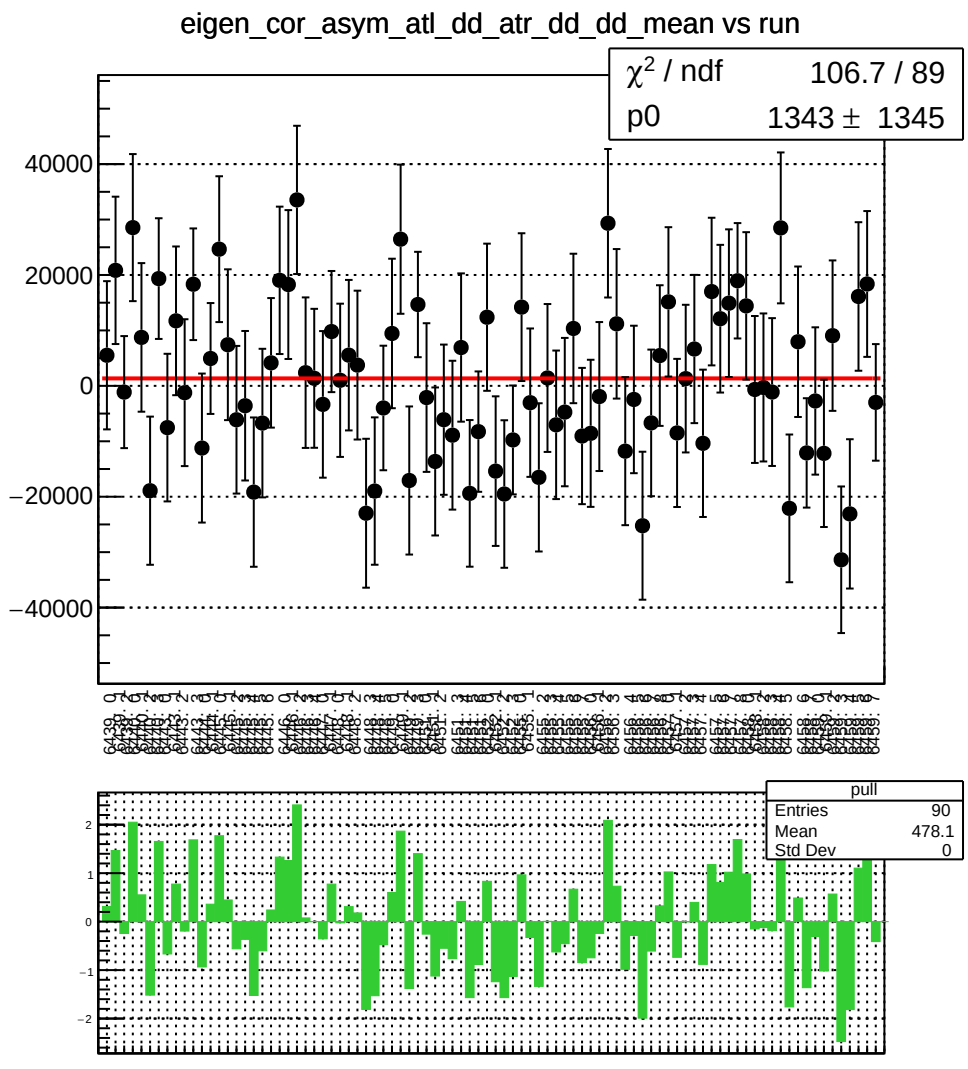

pull1D
Entries 90
Mean −0.00912
Std Dev 1.089
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

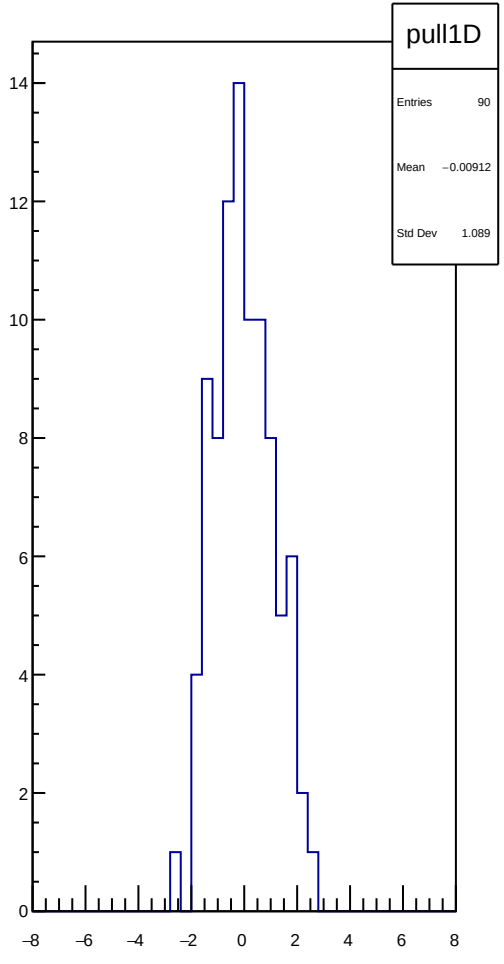

cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 109.4 / 89
p0 1269 ± 0.951
1320
1310
1300
1290
1280
1270
1260
1250
1240

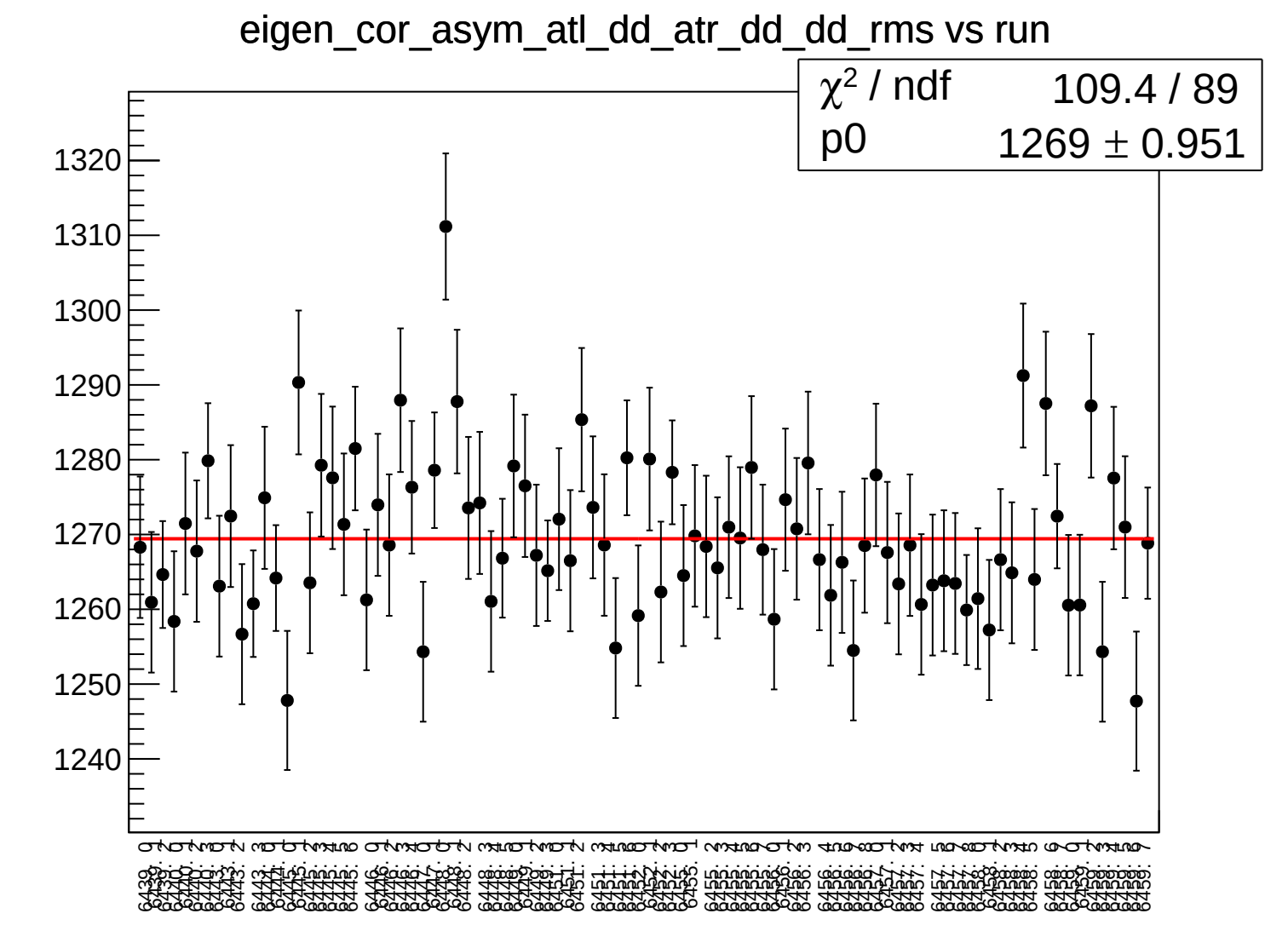

asym_atl_dd_atr_dd_dd_cor_correction_mean vs run
χ² / ndf 67.46 / 89
p0 2187 ± 713
20000
10000
0
−10000
−20000
pull
Entries 90
Mean −227
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

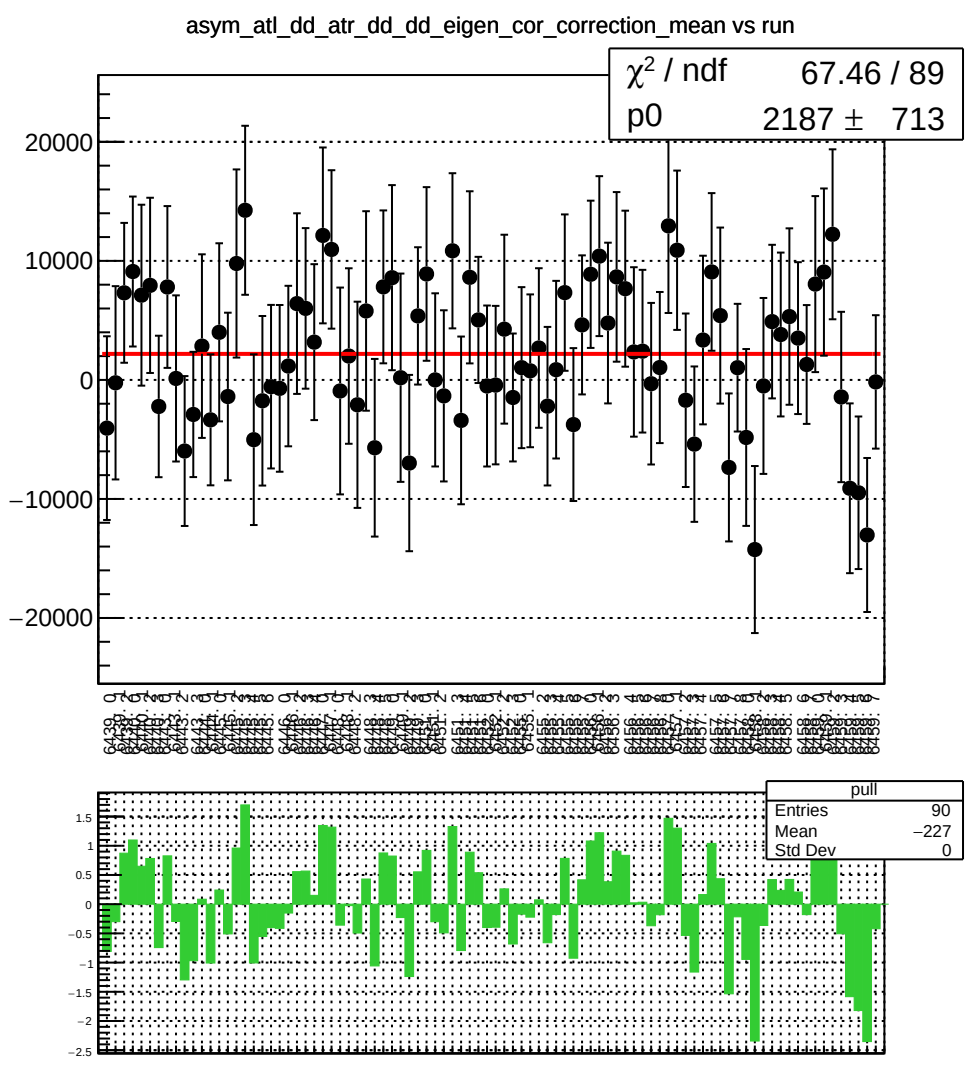

pull1D
Entries 90
Mean 0.009416
Std Dev 0.8657
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

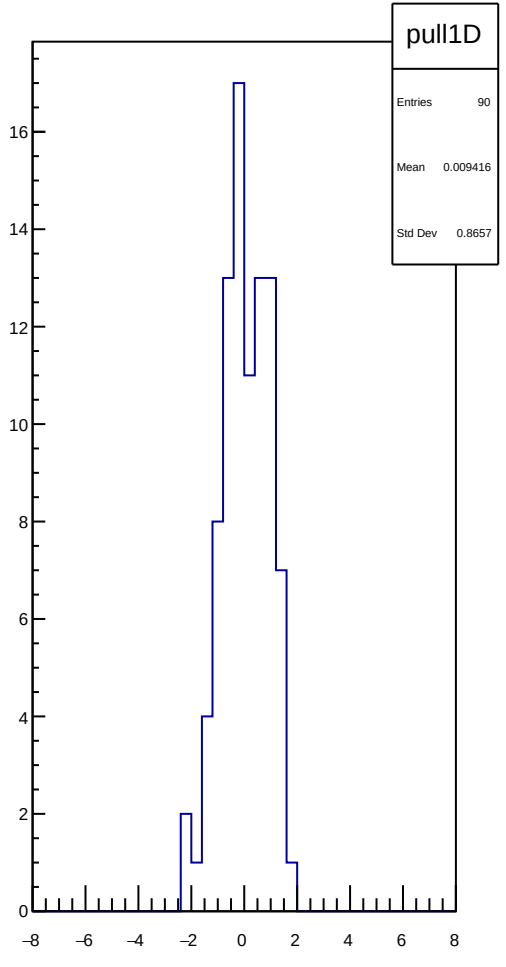

asym_atl_dd_atr_dd_dd_cor_correction_rms vs run
χ² / ndf 1.017e+04 / 89
p0 671.1 ± 0.5041
850
800
750
700
650
600

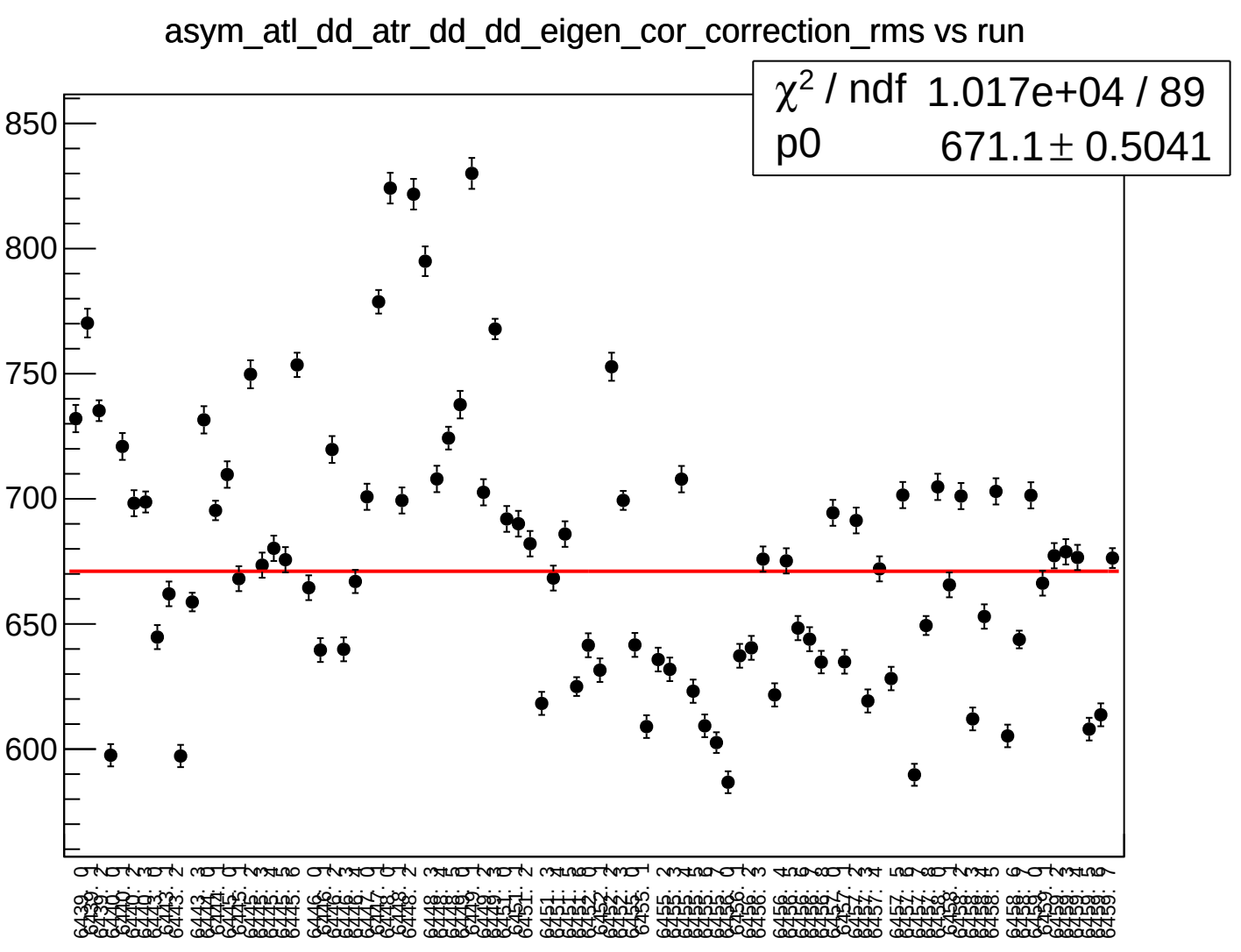

eigen_cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 106.7 / 89
p0 1343 ± 1345
40000
20000
0
−20000
−40000
pull
Entries 90
Mean 478.1
Std Dev 0
2
1
0
−1
−2

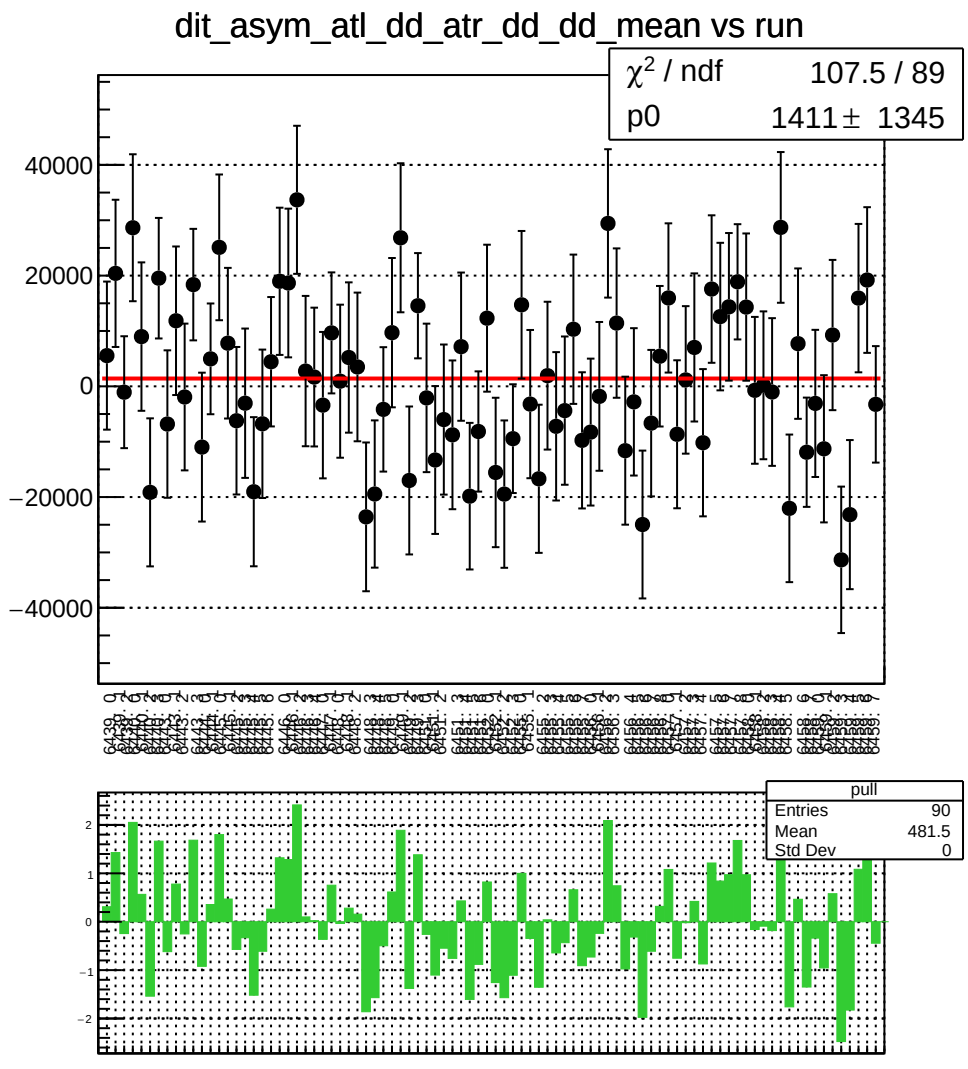

pull1D
Entries 90
Mean −0.00912
Std Dev 1.089
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

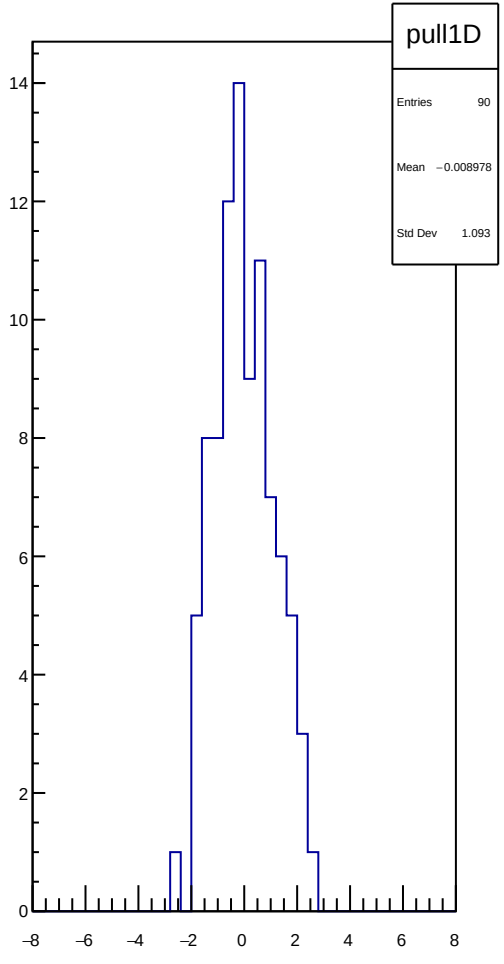

eigen_cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 109.4 / 89
p0 1269 ± 0.951
1320
1310
1300
1290
1280
1270
1260
1250
1240

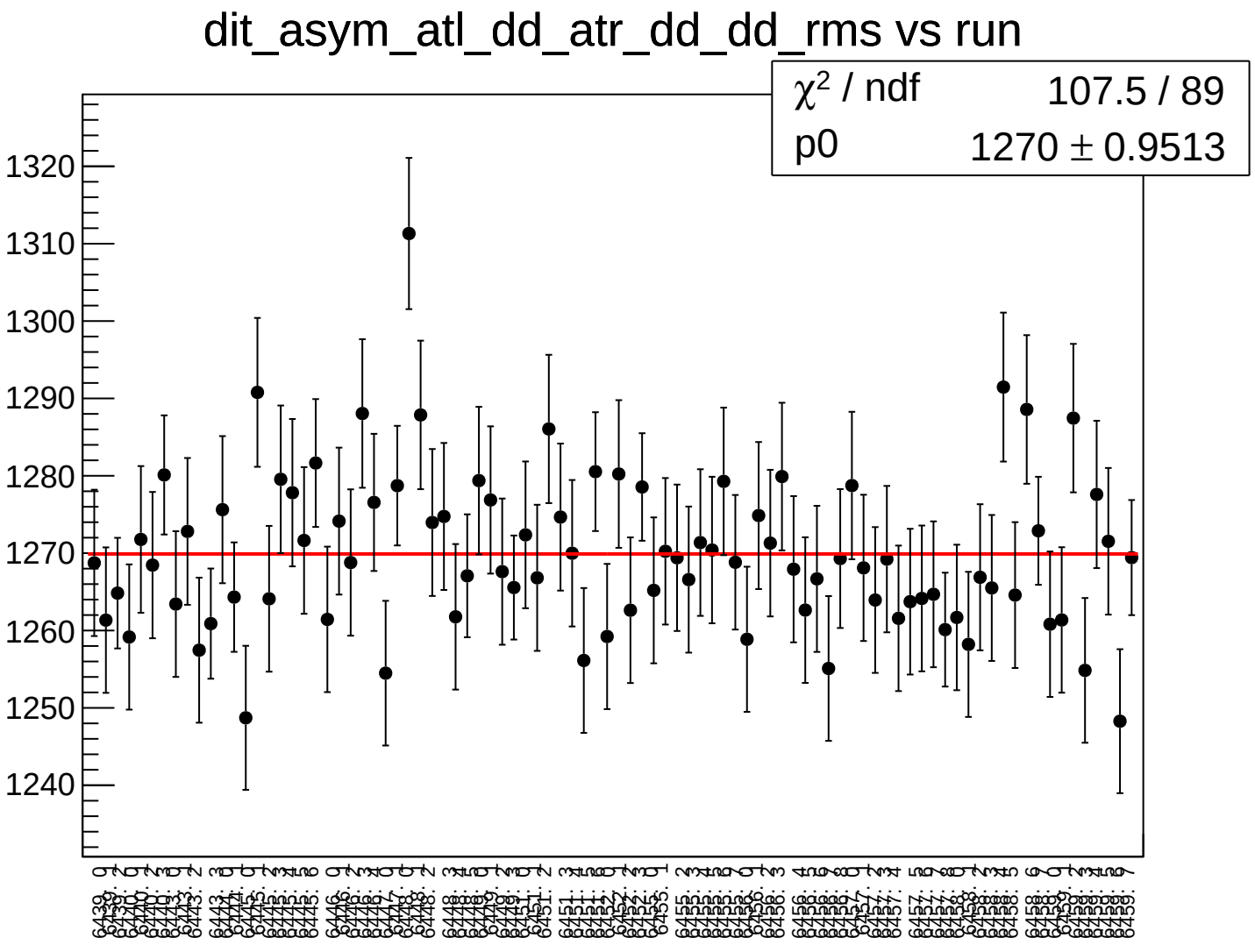

asym_atl_dd_atr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 67.46 / 89
p0 2187 ± 713
20000
10000
0
−10000
−20000
pull
Entries 90
Mean −227
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

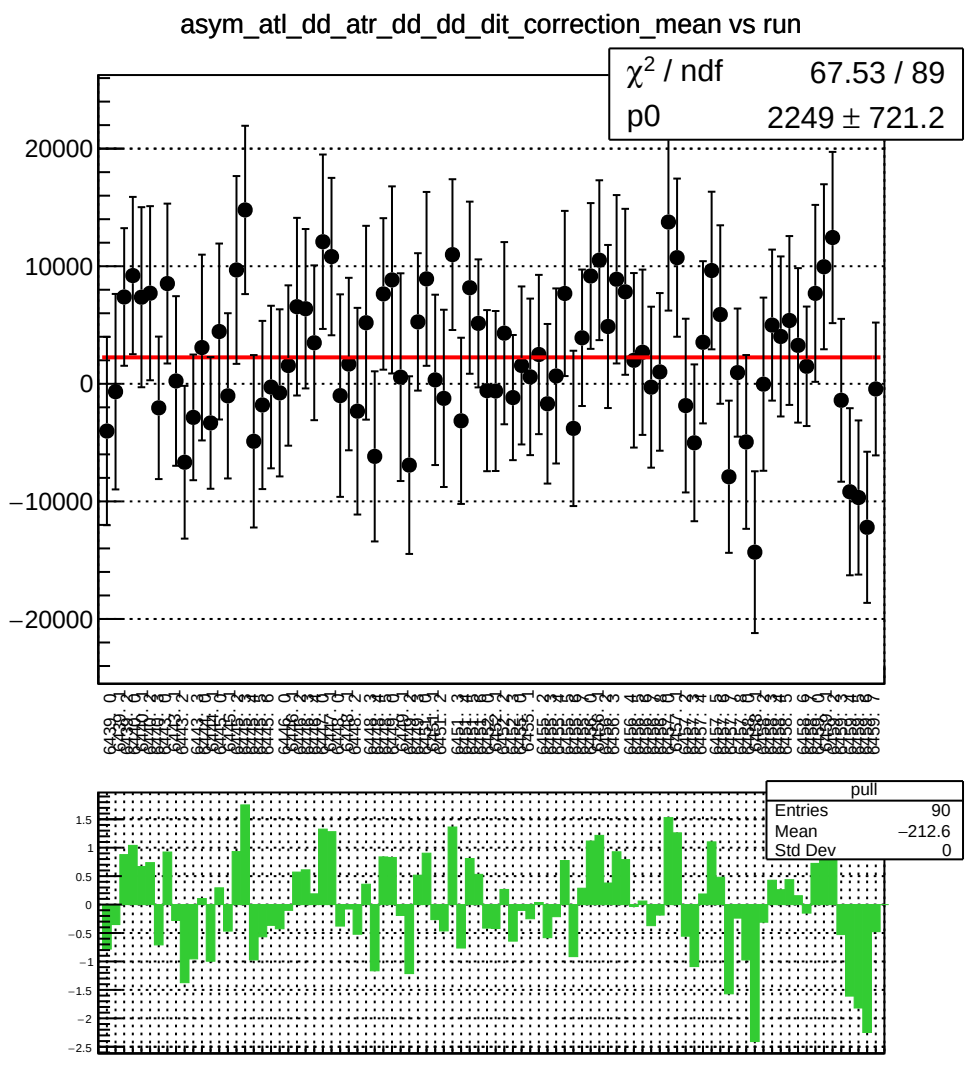

pull1D
Entries 90
Mean 0.009416
Std Dev 0.8657
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

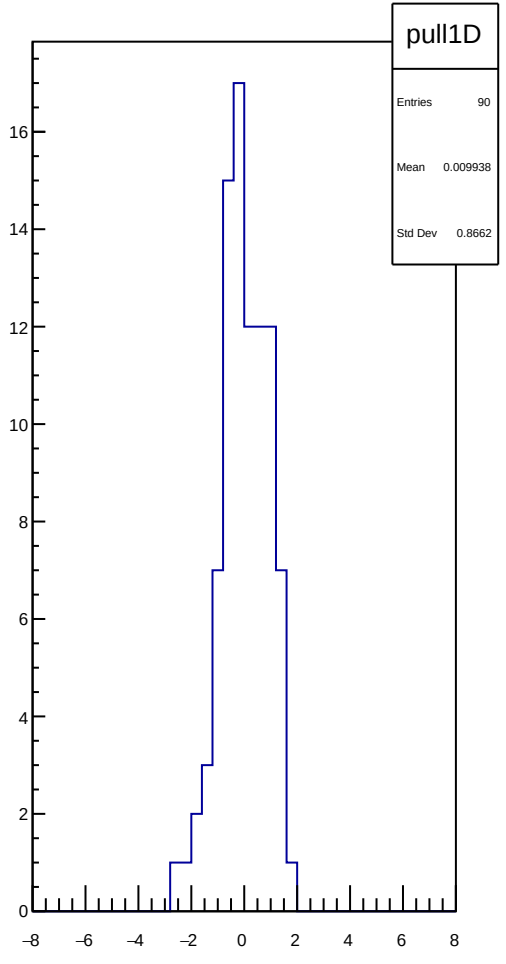

asym_atl_dd_atr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.017e+04 / 89
p0 671.1 ± 0.5041
850
800
750
700
650
600

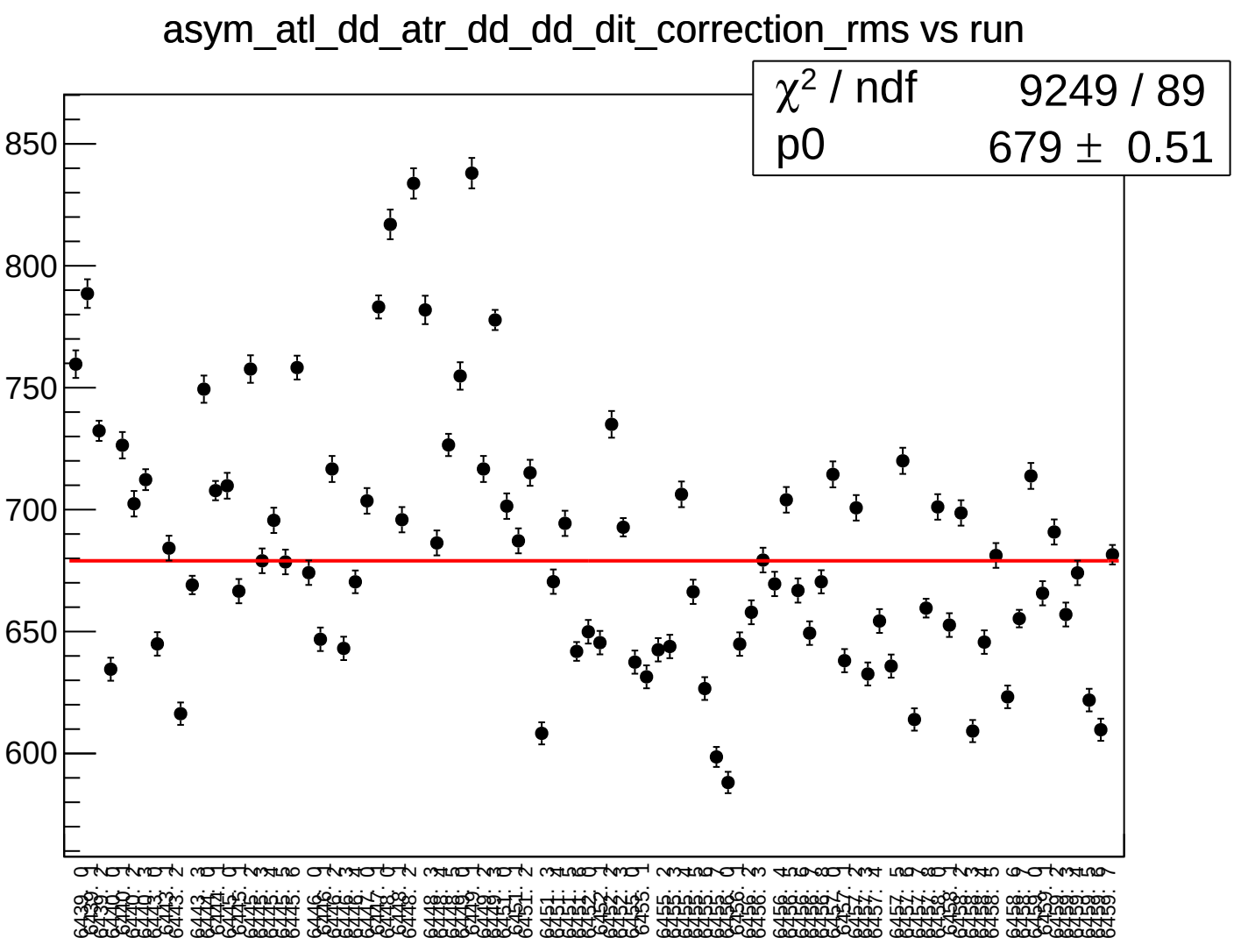

dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 107.5 / 89
p0 1411 ± 1345
40000
20000
0
−20000
−40000
pull
Entries 90
Mean 481.5
Std Dev 0
2
1
0
−1
−2

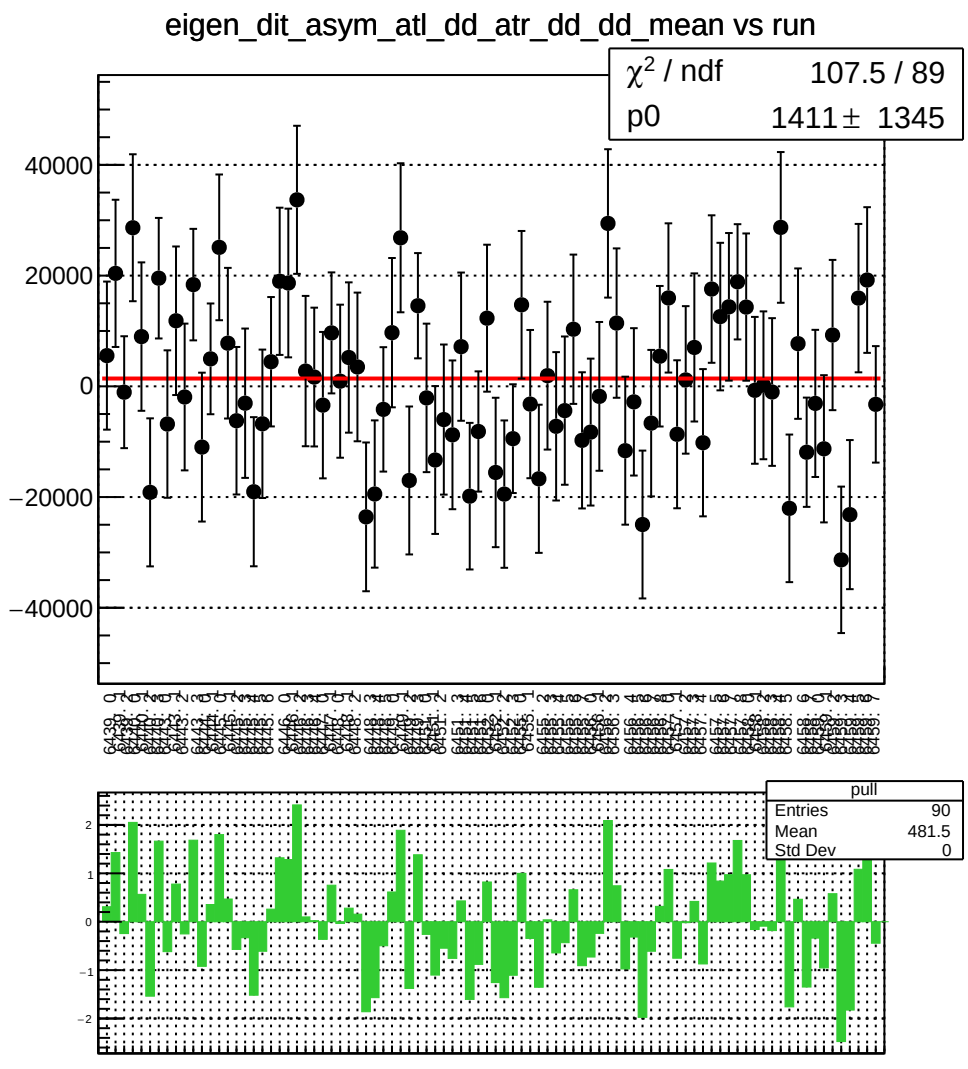

pull1D
Entries 90
Mean −0.008978
Std Dev 1.093
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

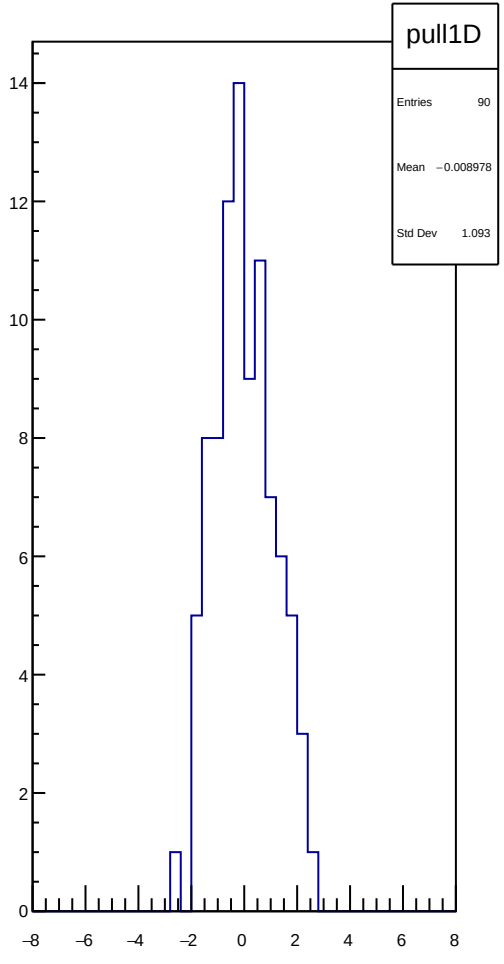

dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 107.5 / 89
p0 1270 ± 0.9513
1320
1310
1300
1290
1280
1270
1260
1250
1240

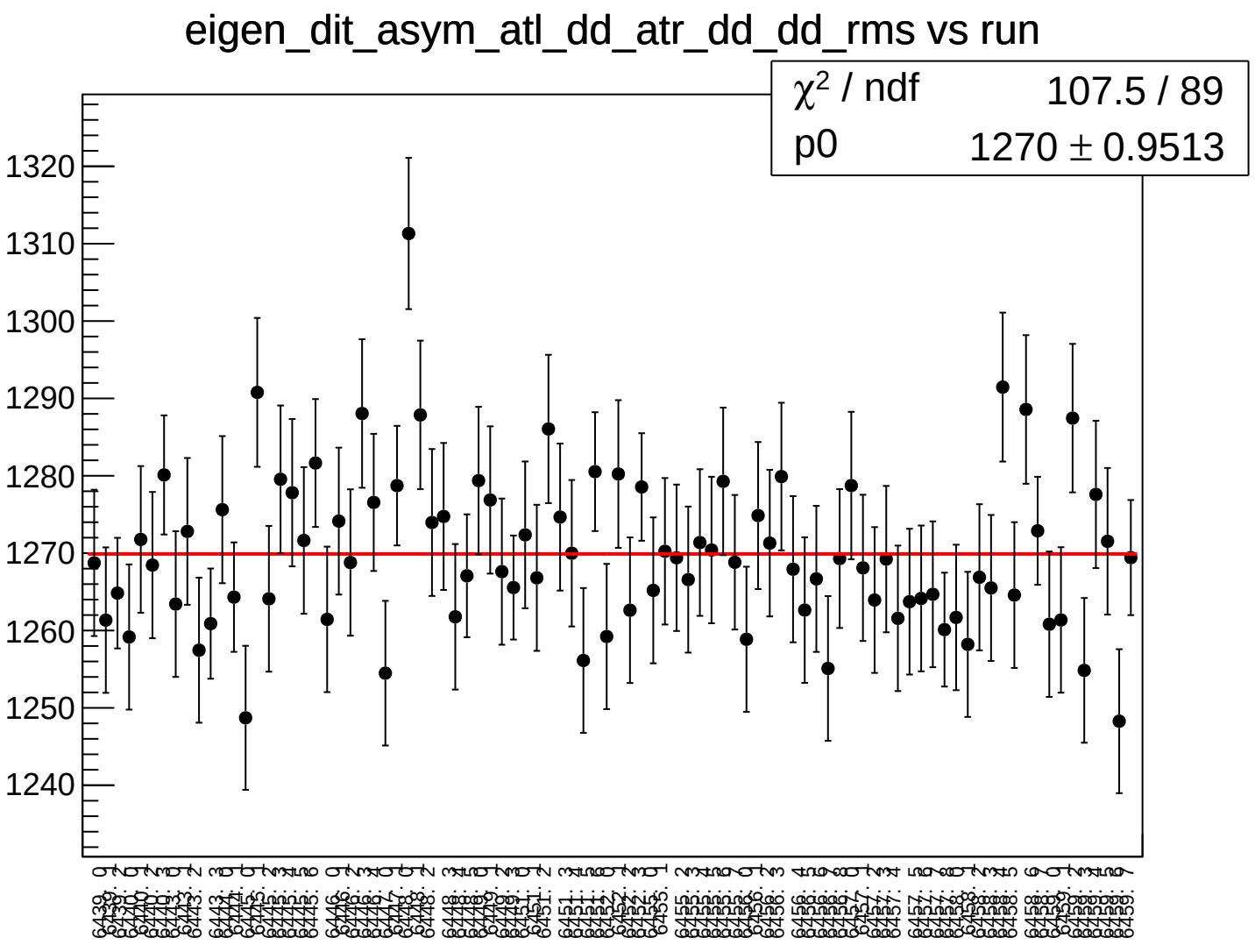

asym_atl_dd_atr_dd_dd_dit_correction_mean vs run
χ² / ndf 67.53 / 89
p0 2249 ± 721.2
20000
10000
0
−10000
−20000
pull
Entries 90
Mean −212.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

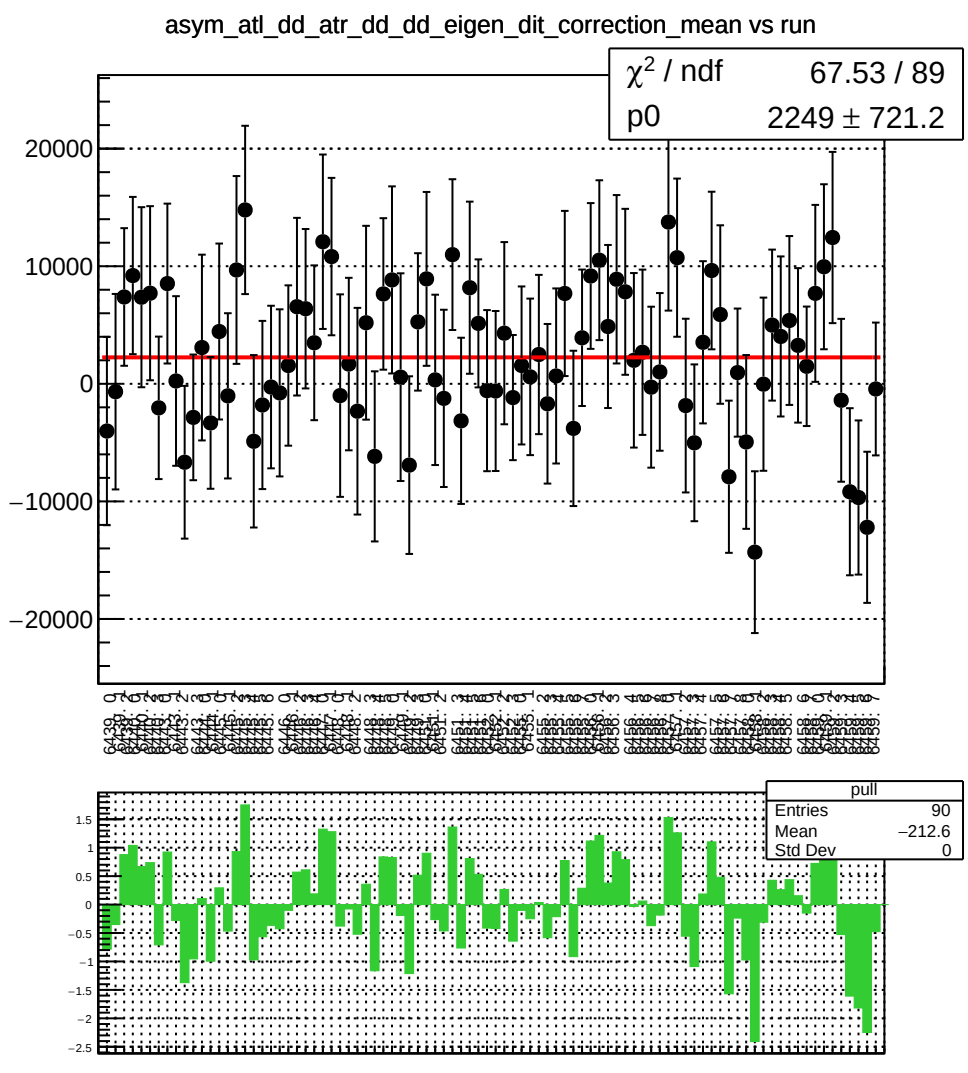

pull1D
Entries 90
Mean 0.009938
Std Dev 0.8662
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

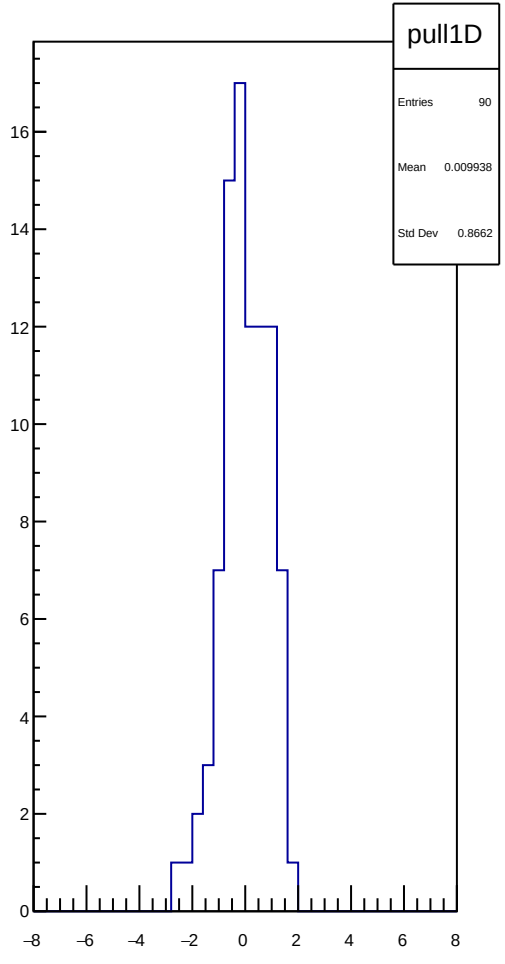

asym_atl_dd_atr_dd_dd_dit_correction_rms vs run
χ² / ndf 9249 / 89
p0 679 ± 0.51
850
800
750
700
650
600


eigen_dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 107.5 / 89
p0 1411 ± 1345
40000
20000
0
−20000
−40000
pull
Entries 90
Mean 481.5
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 90
Mean −0.008978
Std Dev 1.093
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 107.5 / 89
p0 1270 ± 0.9513
1320
1310
1300
1290
1280
1270
1260
1250
1240


asym_atl_dd_atr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 67.53 / 89
p0 2249 ± 721.2
20000
10000
0
−10000
−20000
pull
Entries 90
Mean −212.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 90
Mean 0.009938
Std Dev 0.8662
16
14
12
10
8
6
4
2
0
−8
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−4
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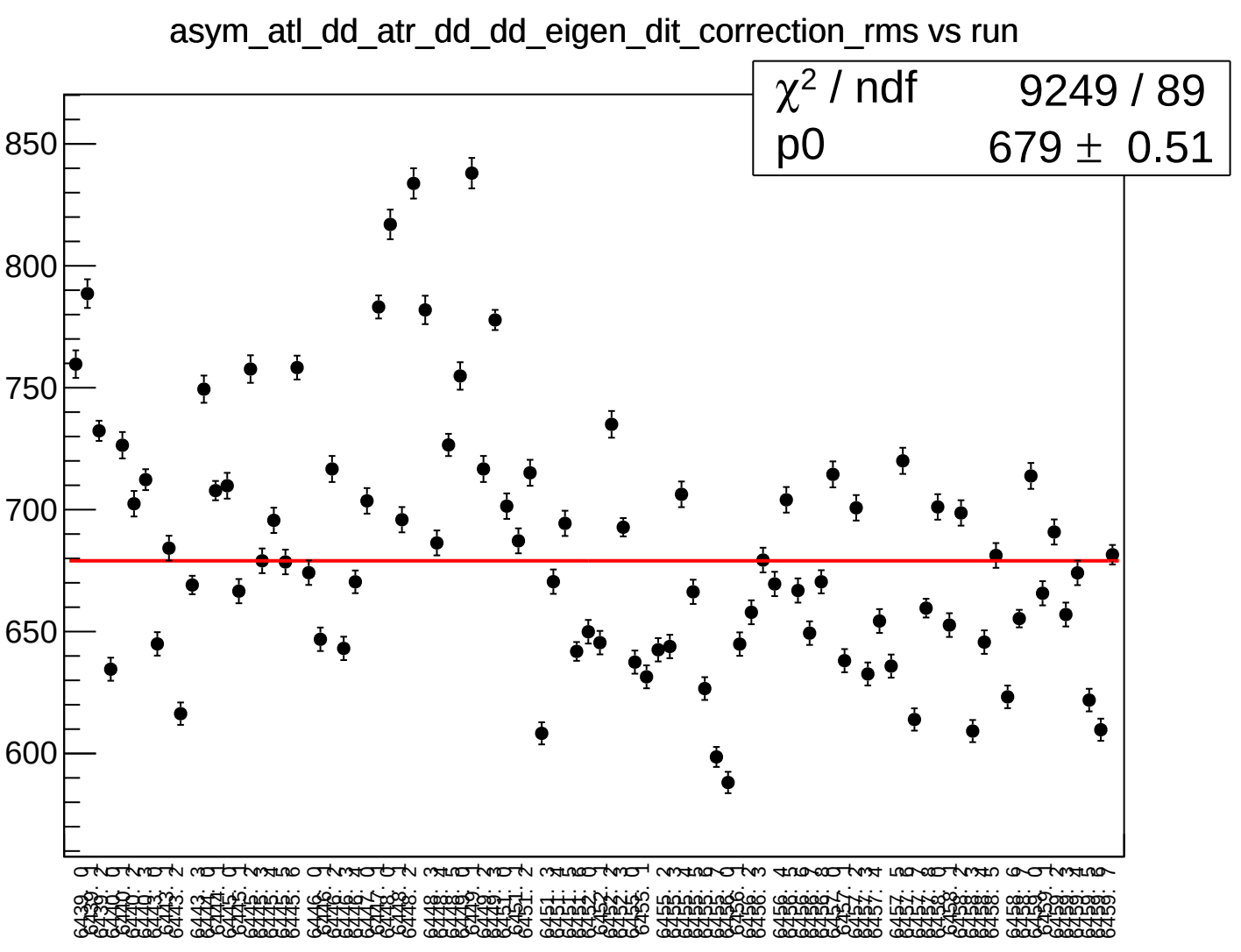
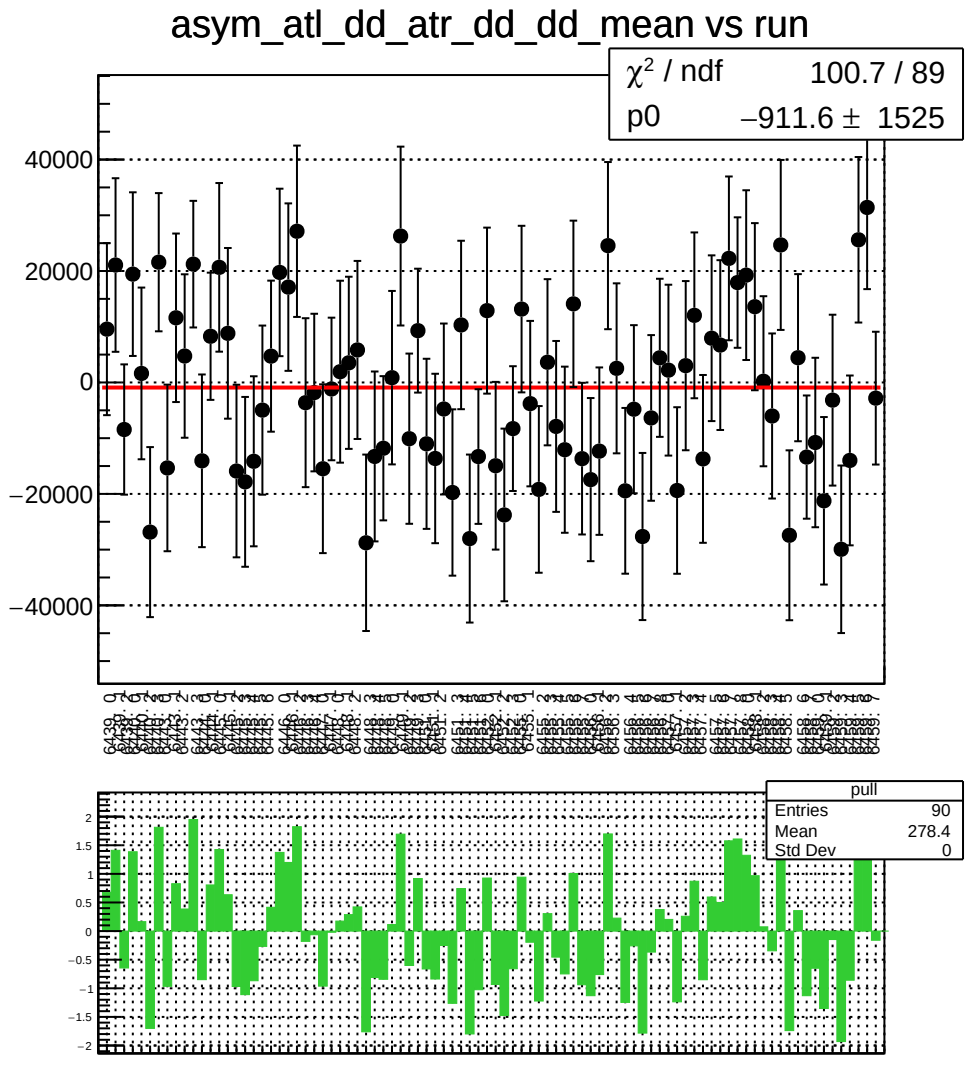
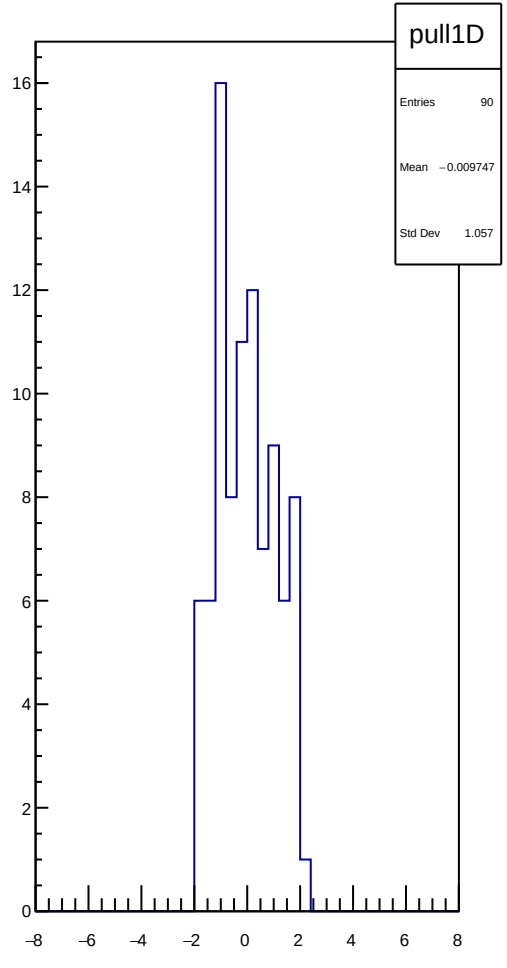
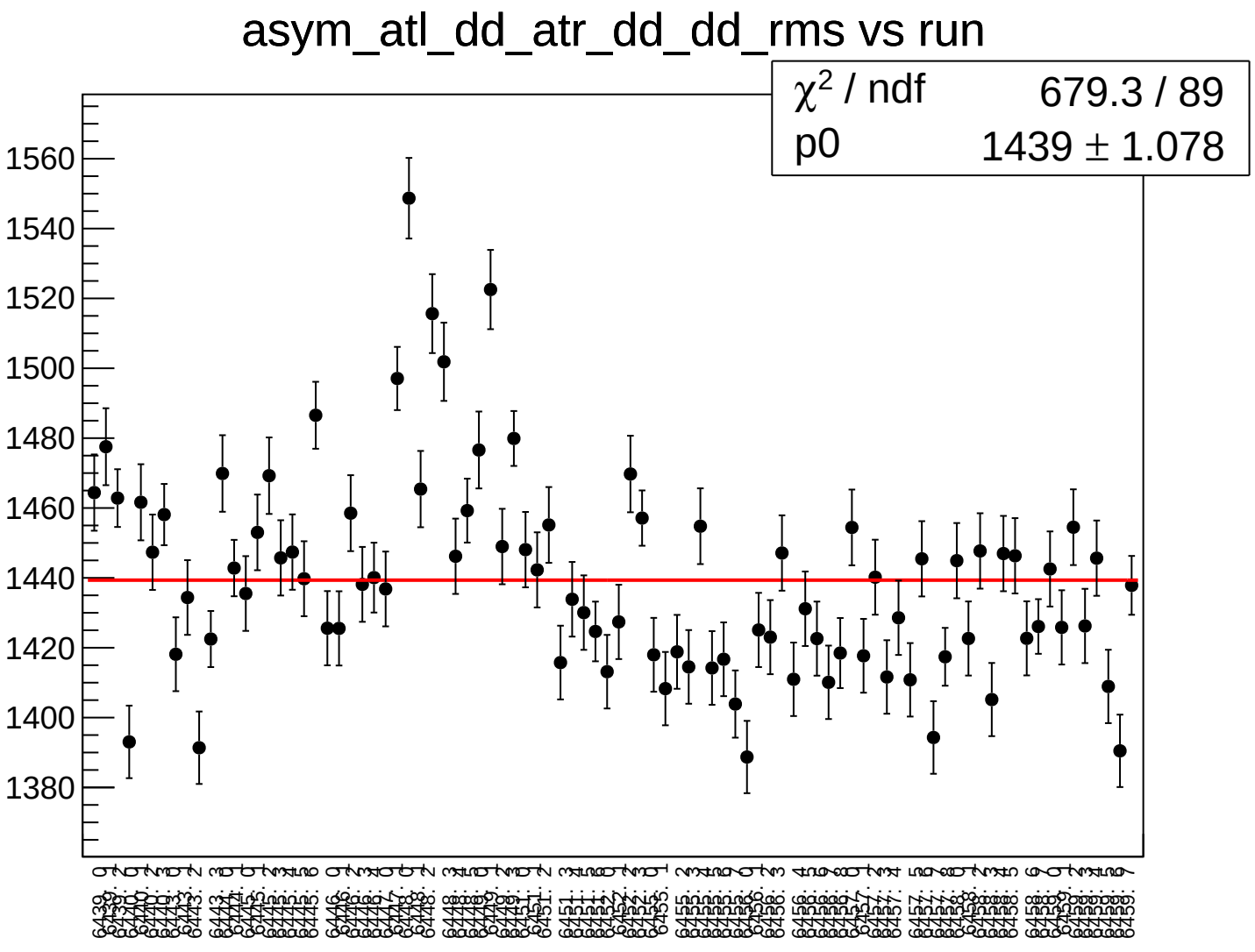
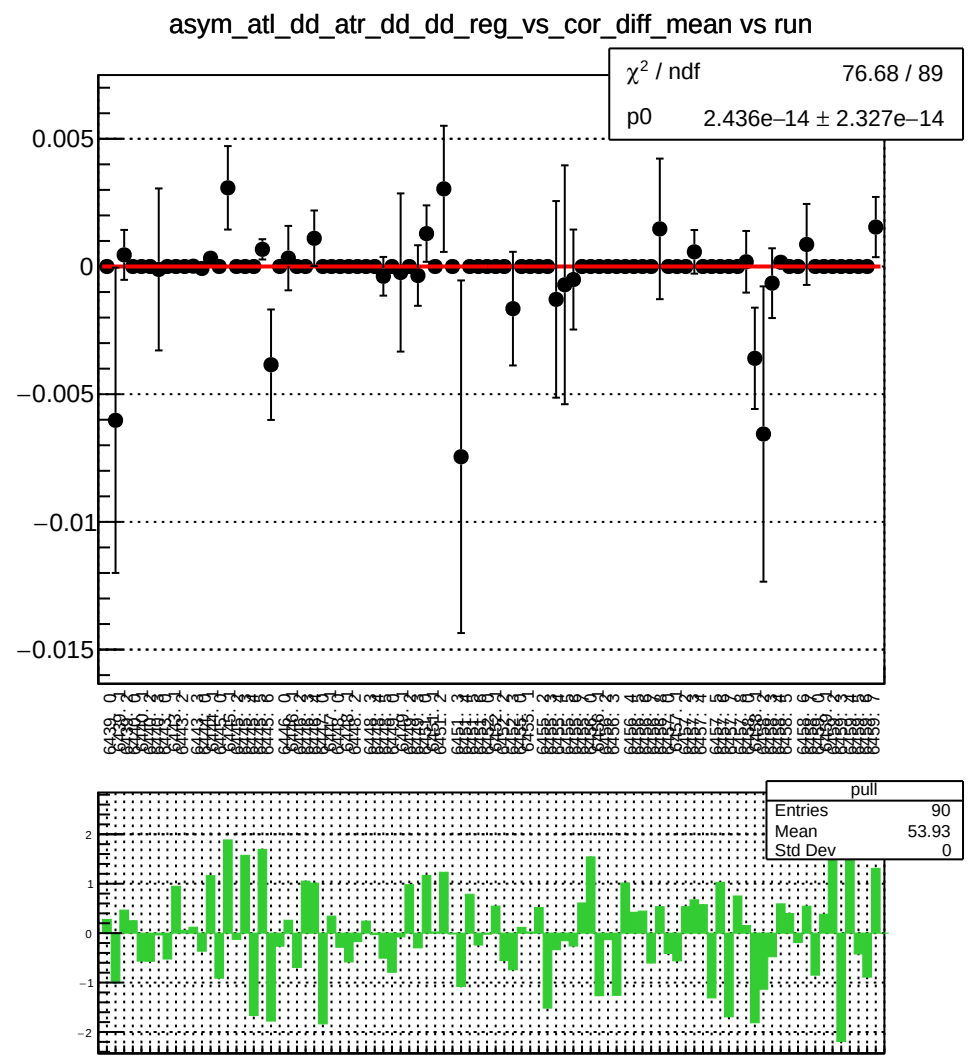
0
2
4
6
8

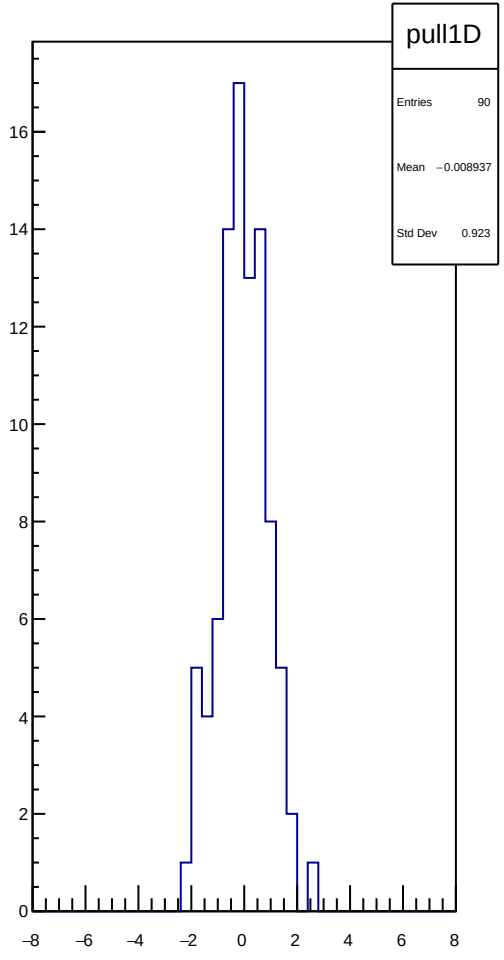

asym_atl_dd_atr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 9249 / 89
p0 679 ± 0.51
850
800
750
700
650
600

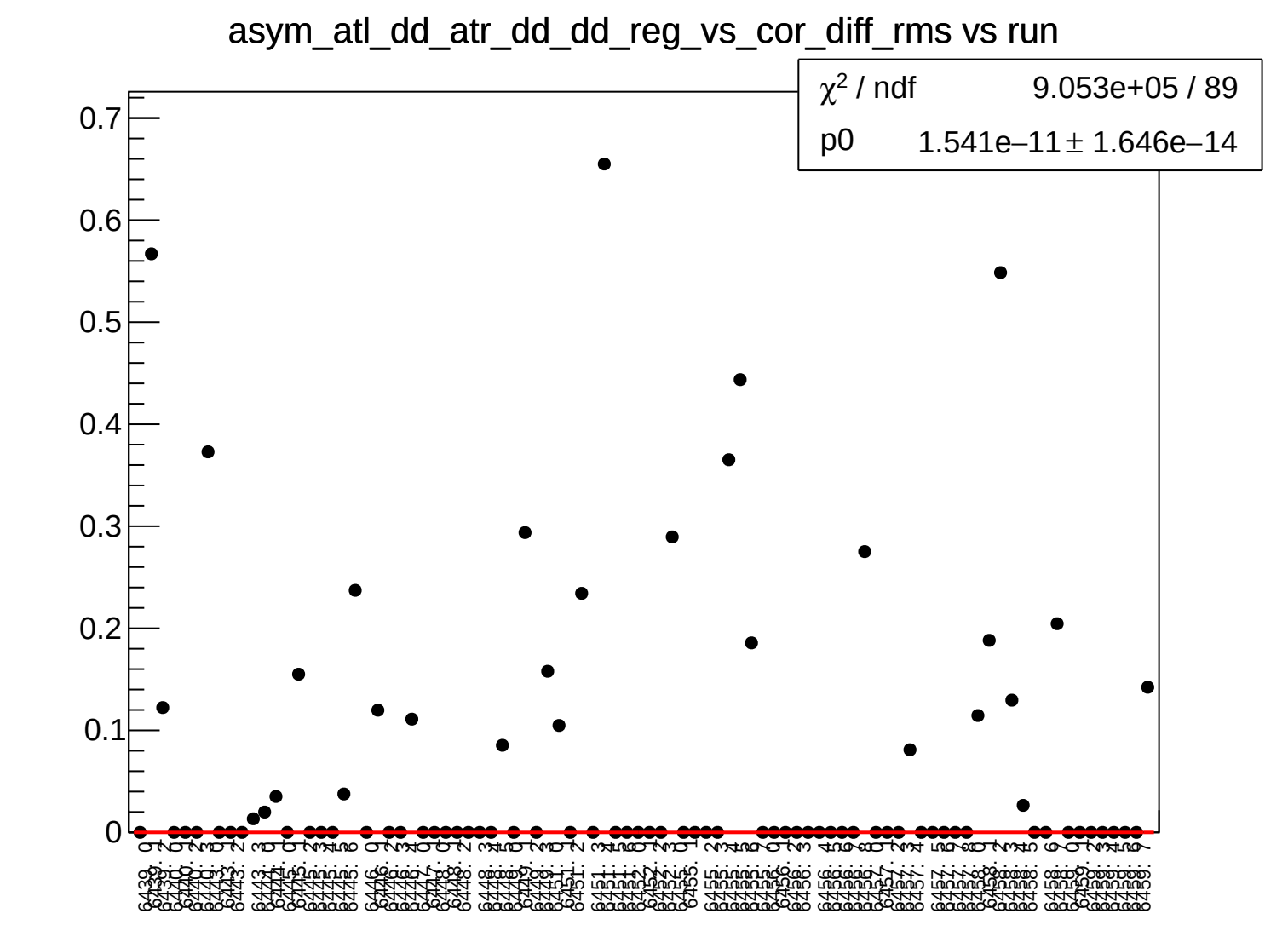

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 100.7 / 89
p0 −911.6 ± 1525
40000
20000
0
−20000
−40000
pull
Entries 90
Mean 278.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

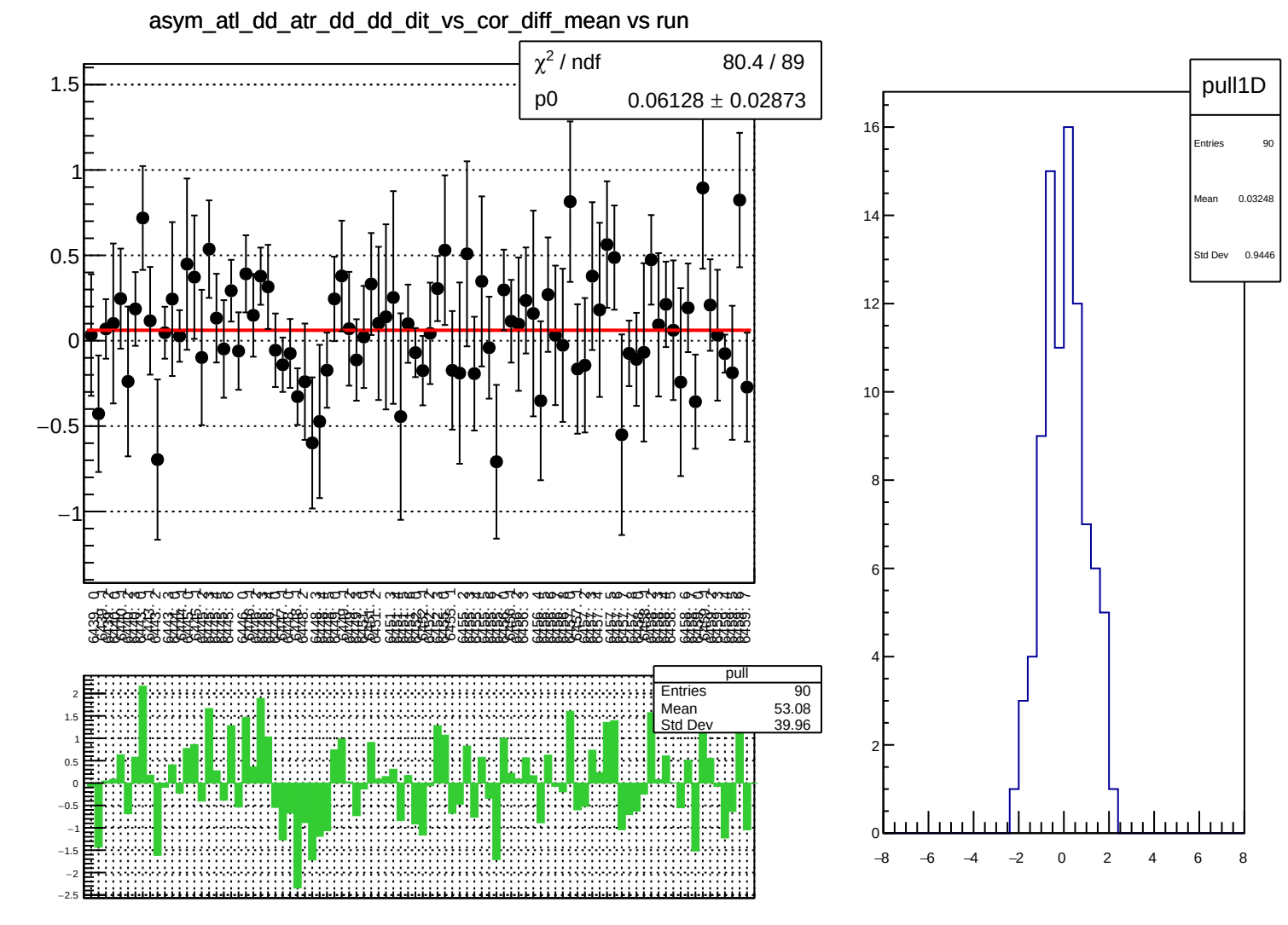

pull1D
Entries 90
Mean −0.009747
Std Dev 1.057
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

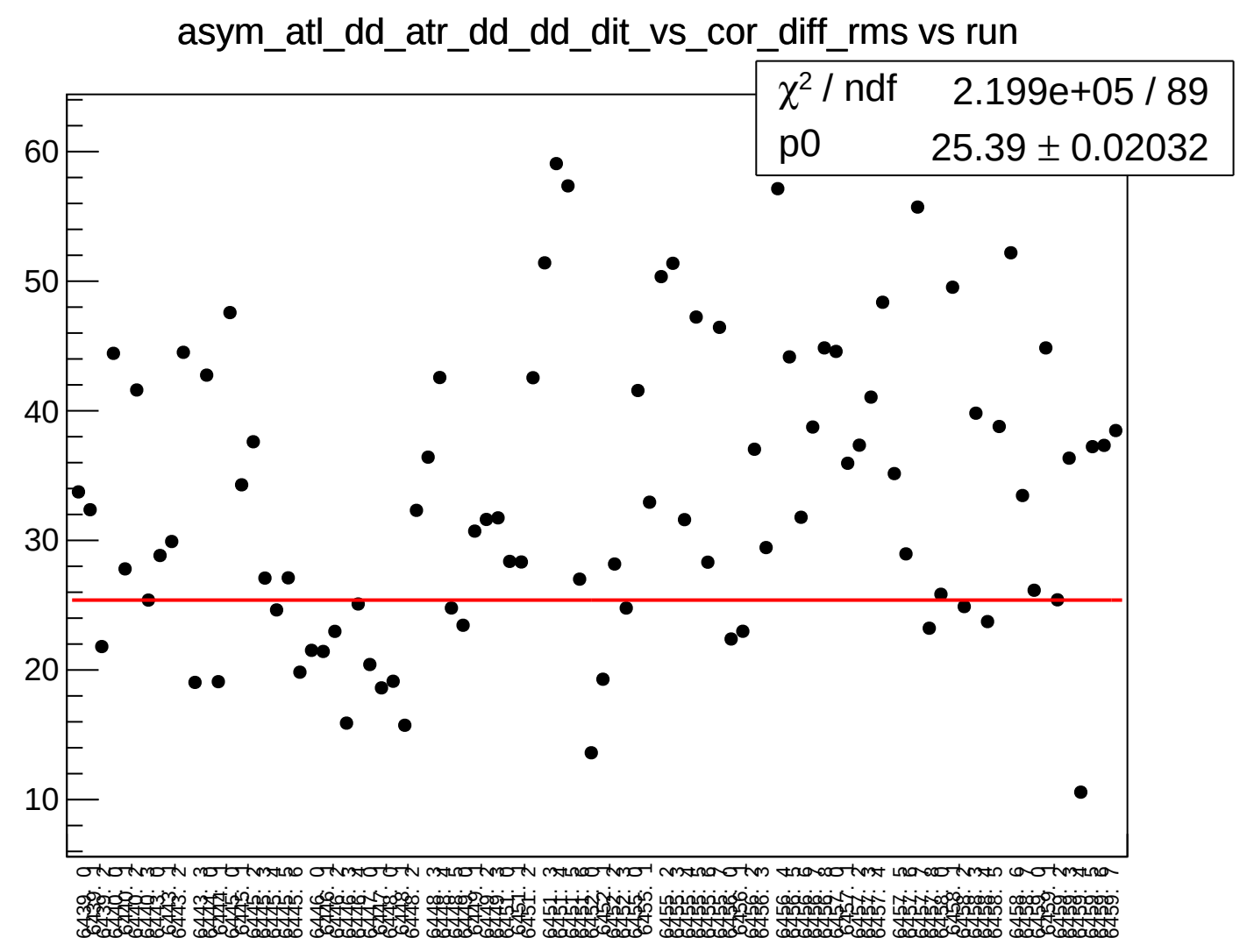

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 679.3 / 89
p0 1439 ± 1.078
1560
1540
1520
1500
1480
1460
1440
1420
1400
1380

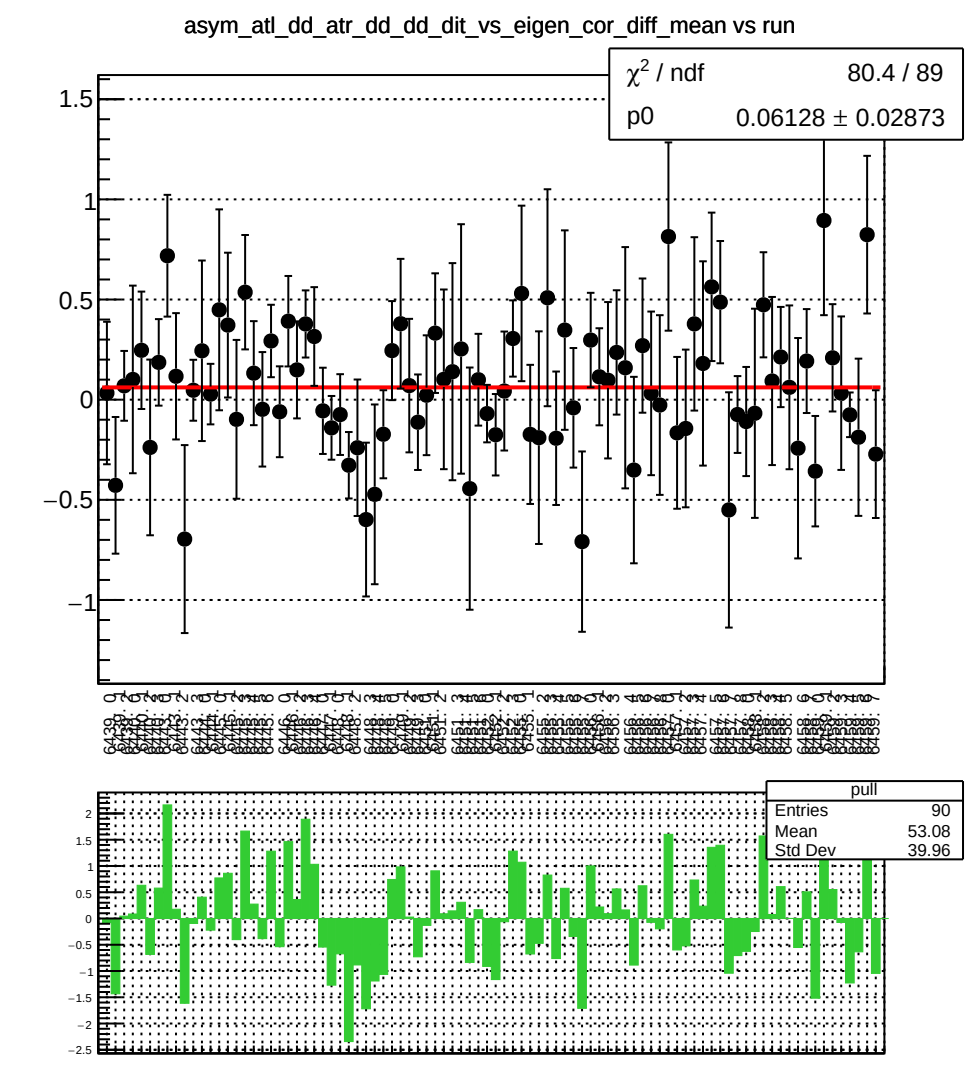

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 76.68 / 89
p0 2.436e−14 ± 2.327e−14
0.005
0
−0.005
−0.01
−0.015
pull
Entries 90
Mean 53.93
Std Dev 0
2
1
0
−1
−2

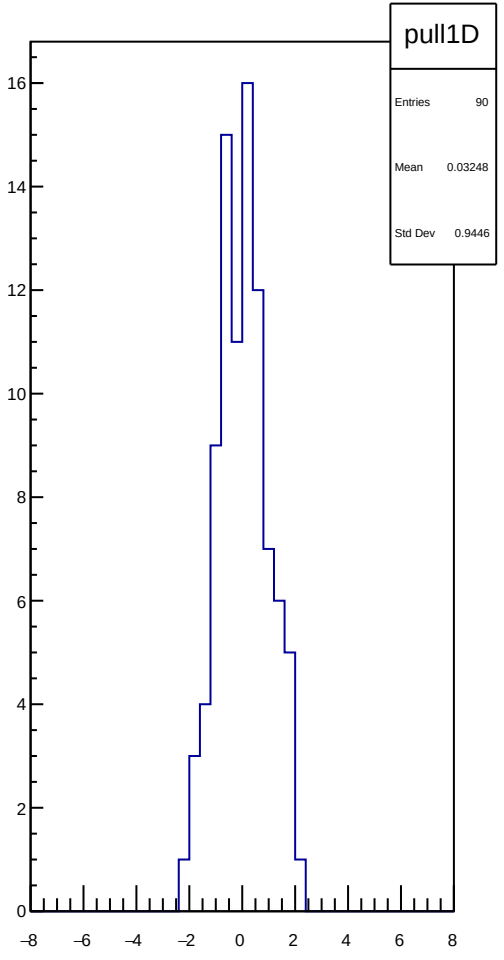

pull1D
Entries 90
Mean −0.008937
Std Dev 0.923
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

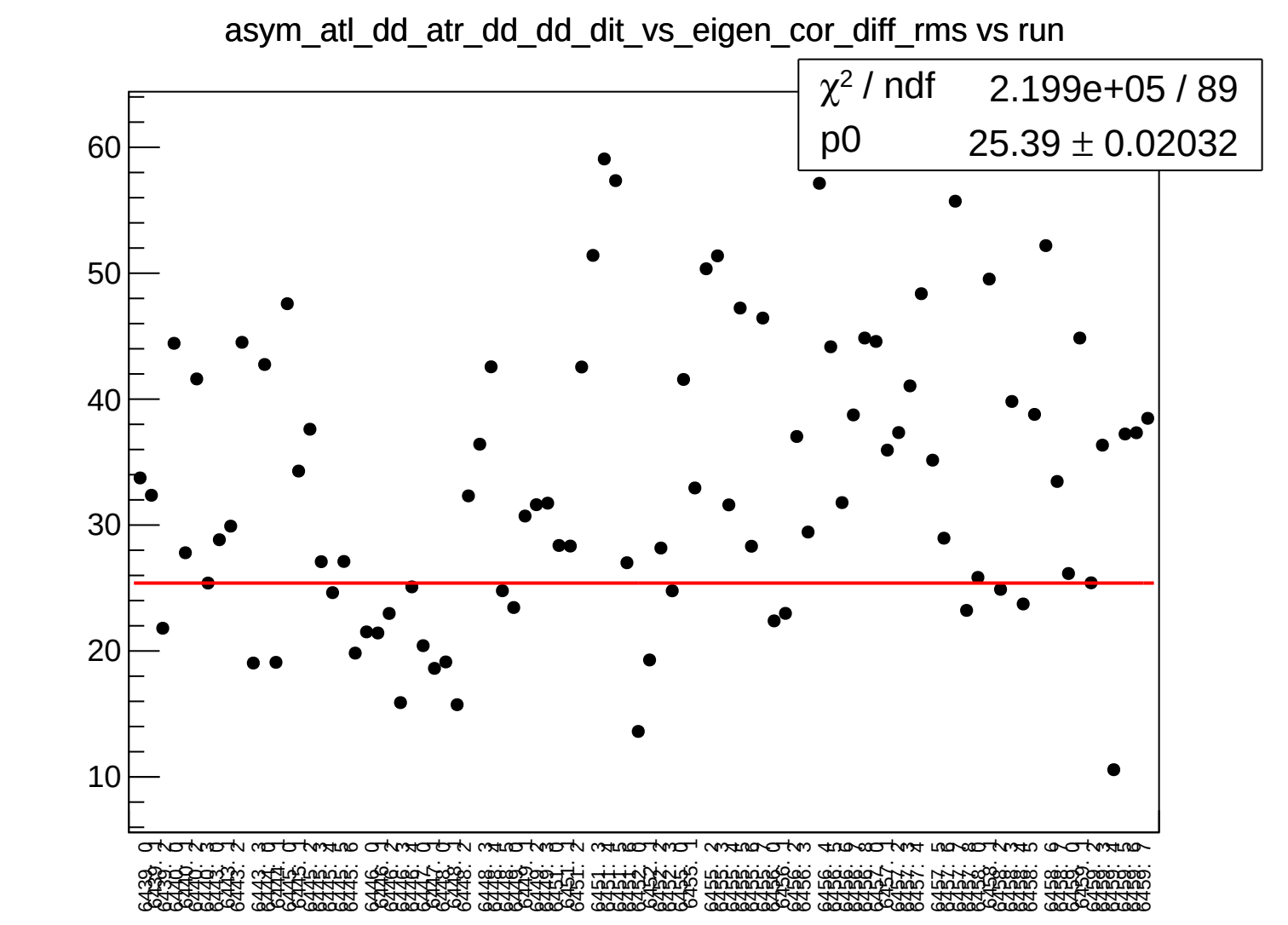

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.053e+05 / 89
p0 1.541e−11 ± 1.646e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

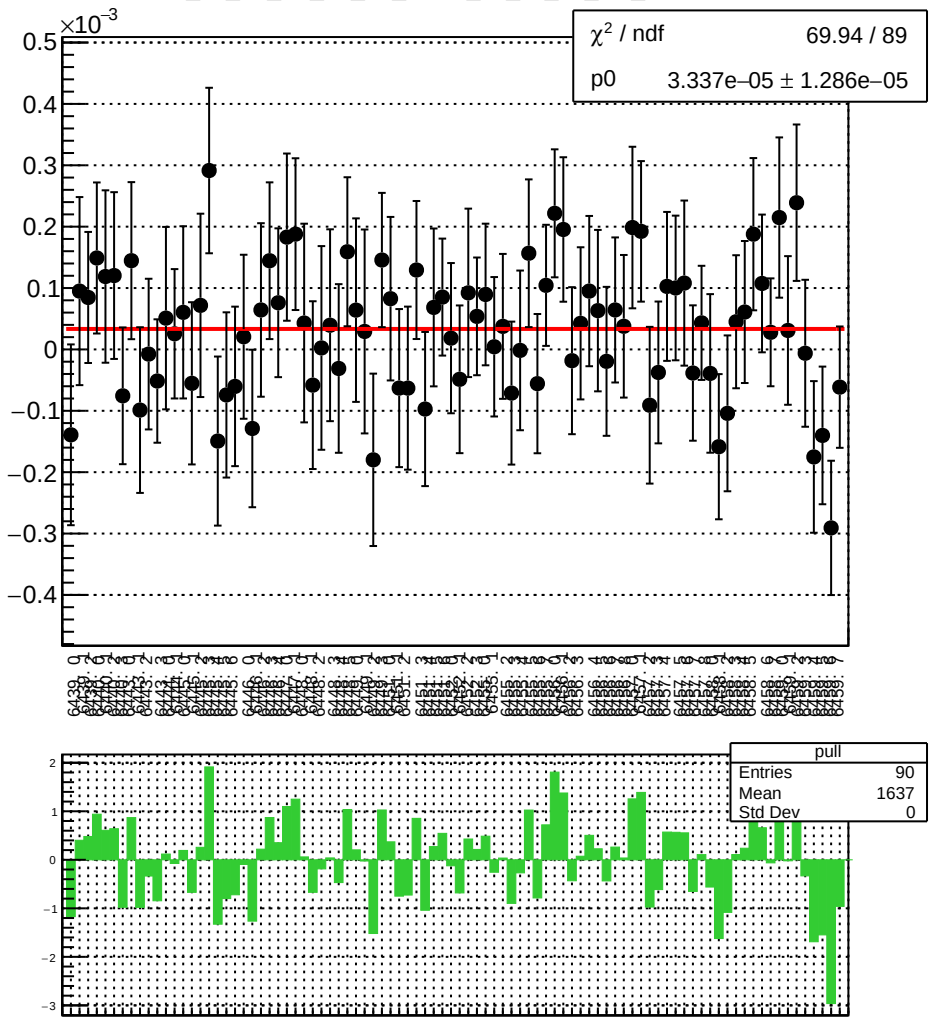

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 80.4 / 89
p0 0.06128 ± 0.02873
pull
Entries 90
Mean 53.08
Std Dev 39.96
pull1D
Entries 90
Mean 0.03248
Std Dev 0.9446

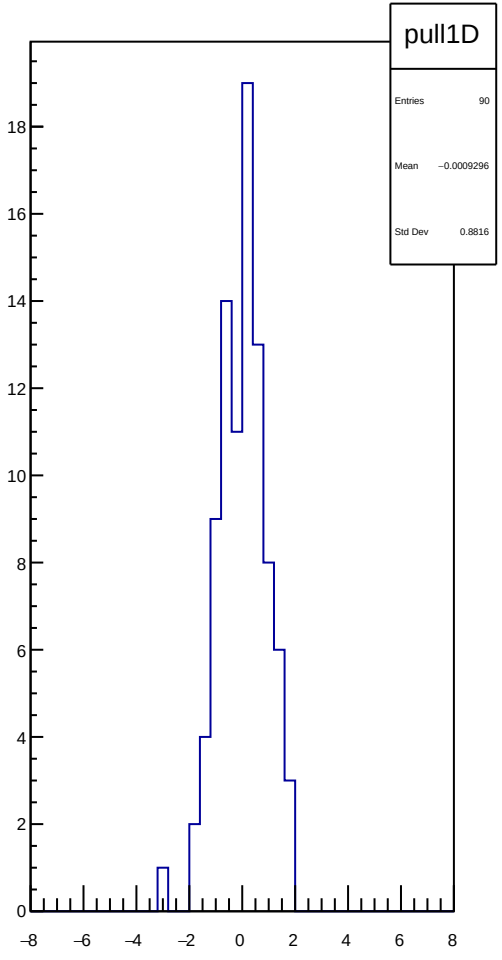

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.199e+05 / 89
p0 25.39 ± 0.02032
60
50
40
30
20
10

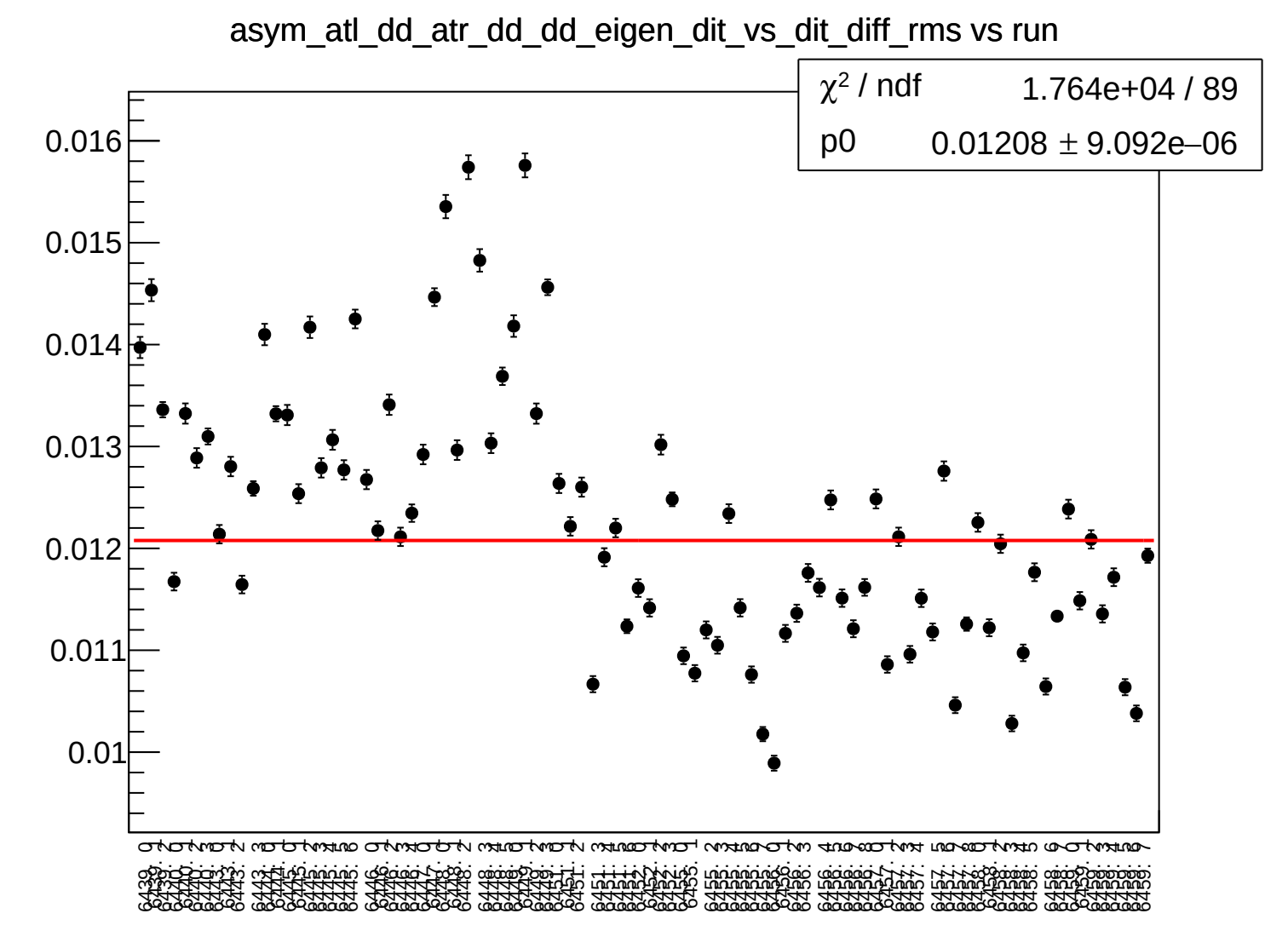

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.4 / 89
p0 0.06128 ± 0.02873
pull
Entries 90
Mean 53.08
Std Dev 39.96

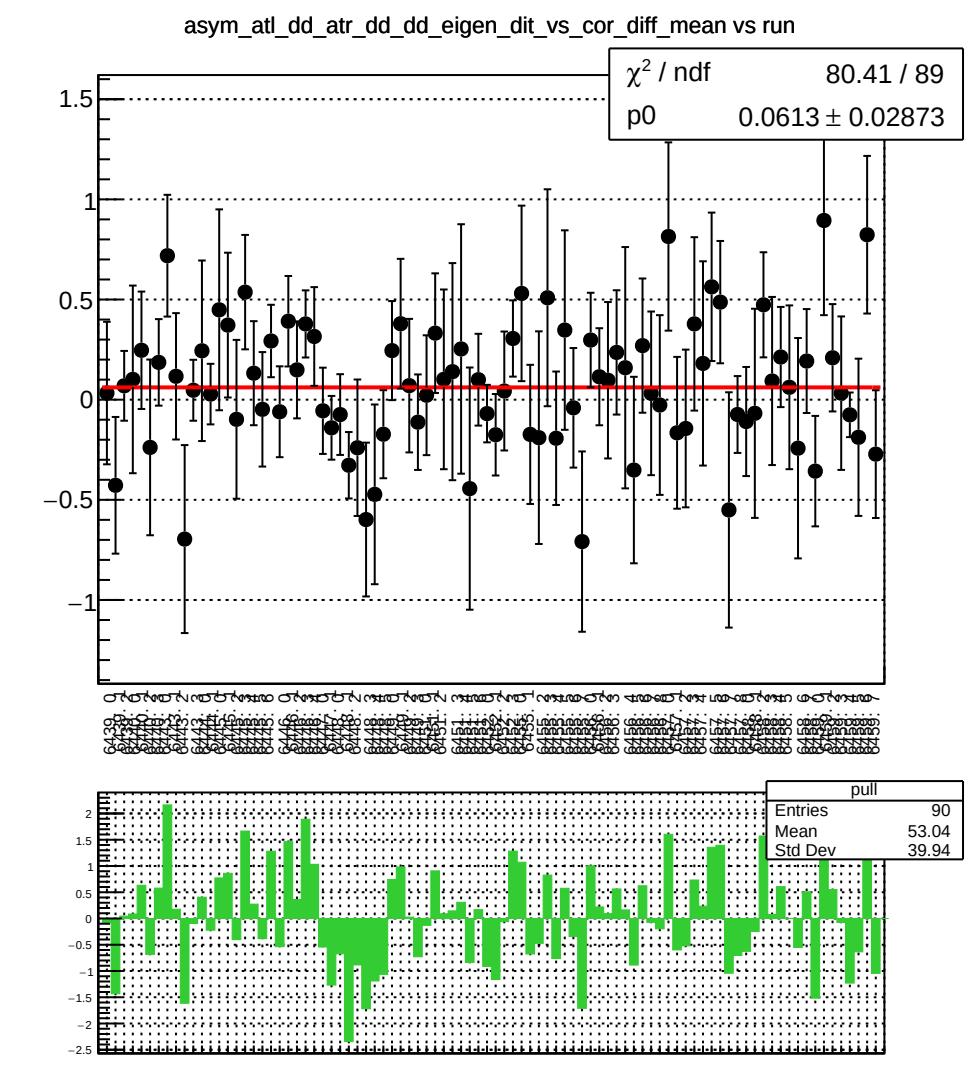

pull1D
Entries 90
Mean 0.03248
Std Dev 0.9446

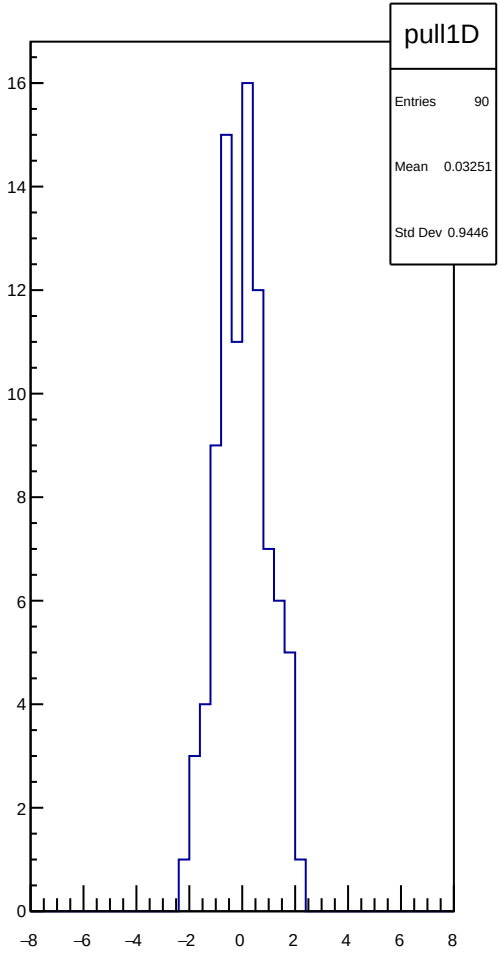

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.199e+05 / 89
p0 25.39 ± 0.02032
60
50
40
30
20
10

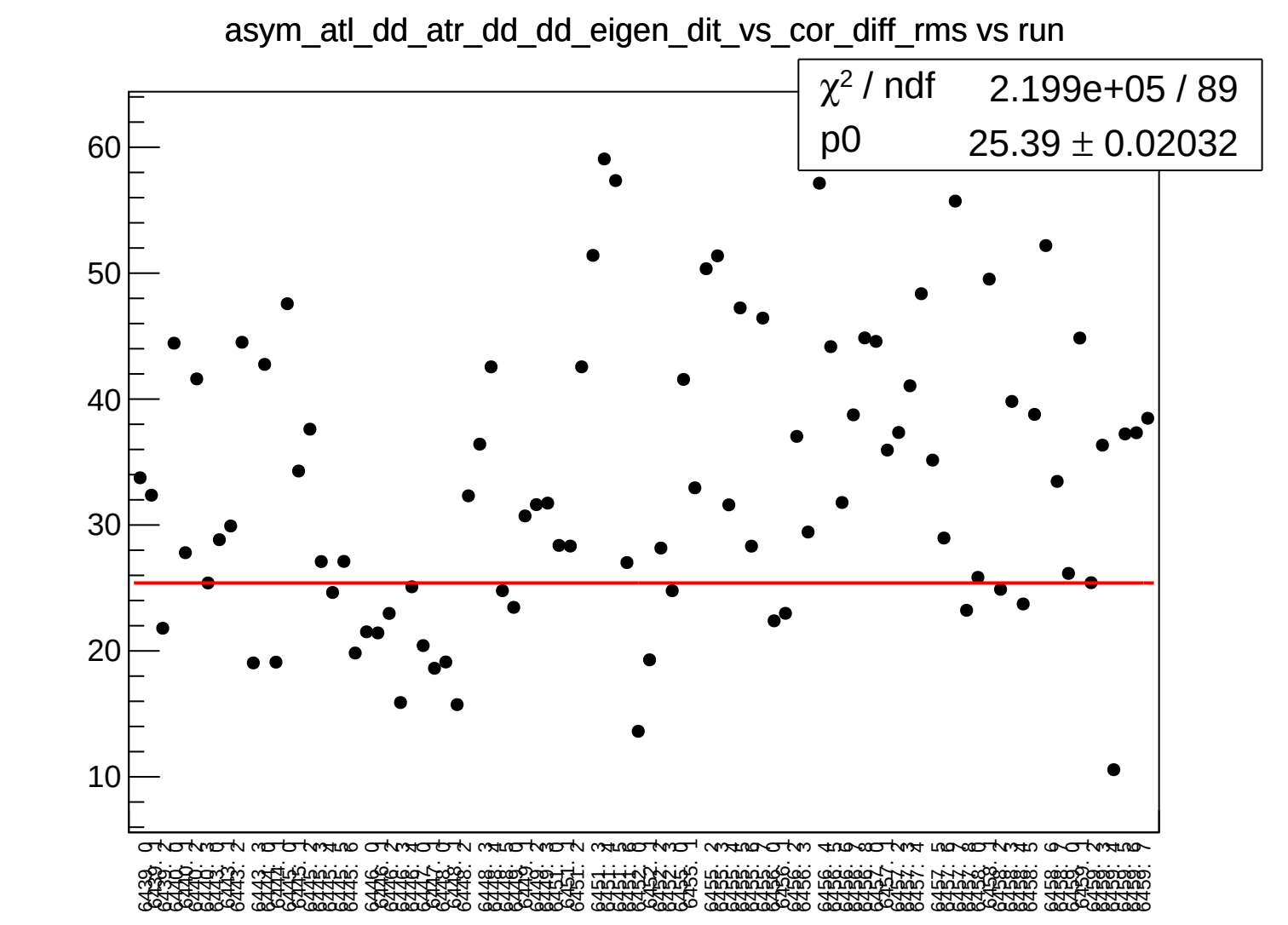

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 69.94 / 89
p0 3.337e−05 ± 1.286e−05
pull
Entries 90
Mean 1637
Std Dev 0

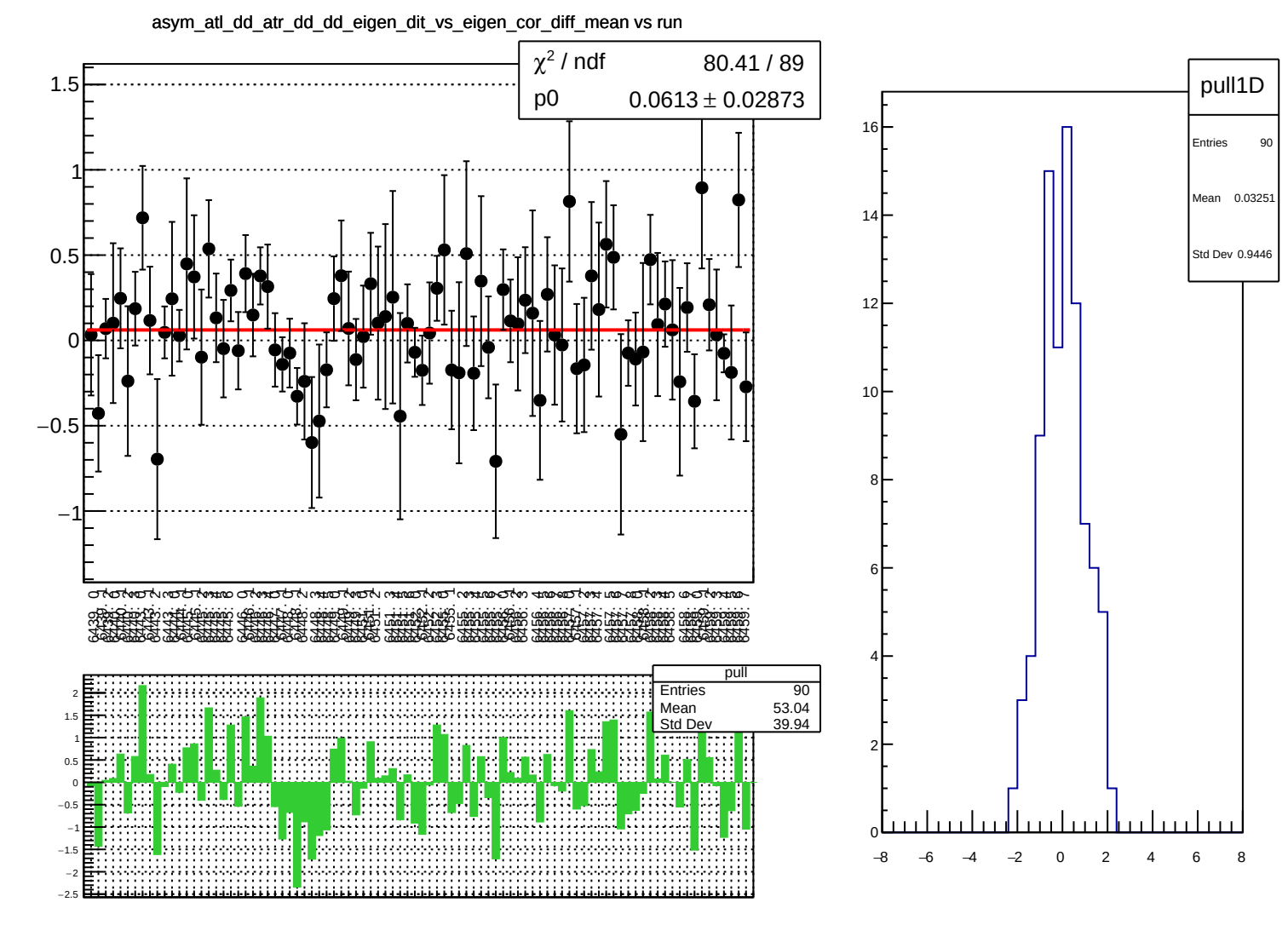

pull1D
Entries 90
Mean −0.0009296
Std Dev 0.8816

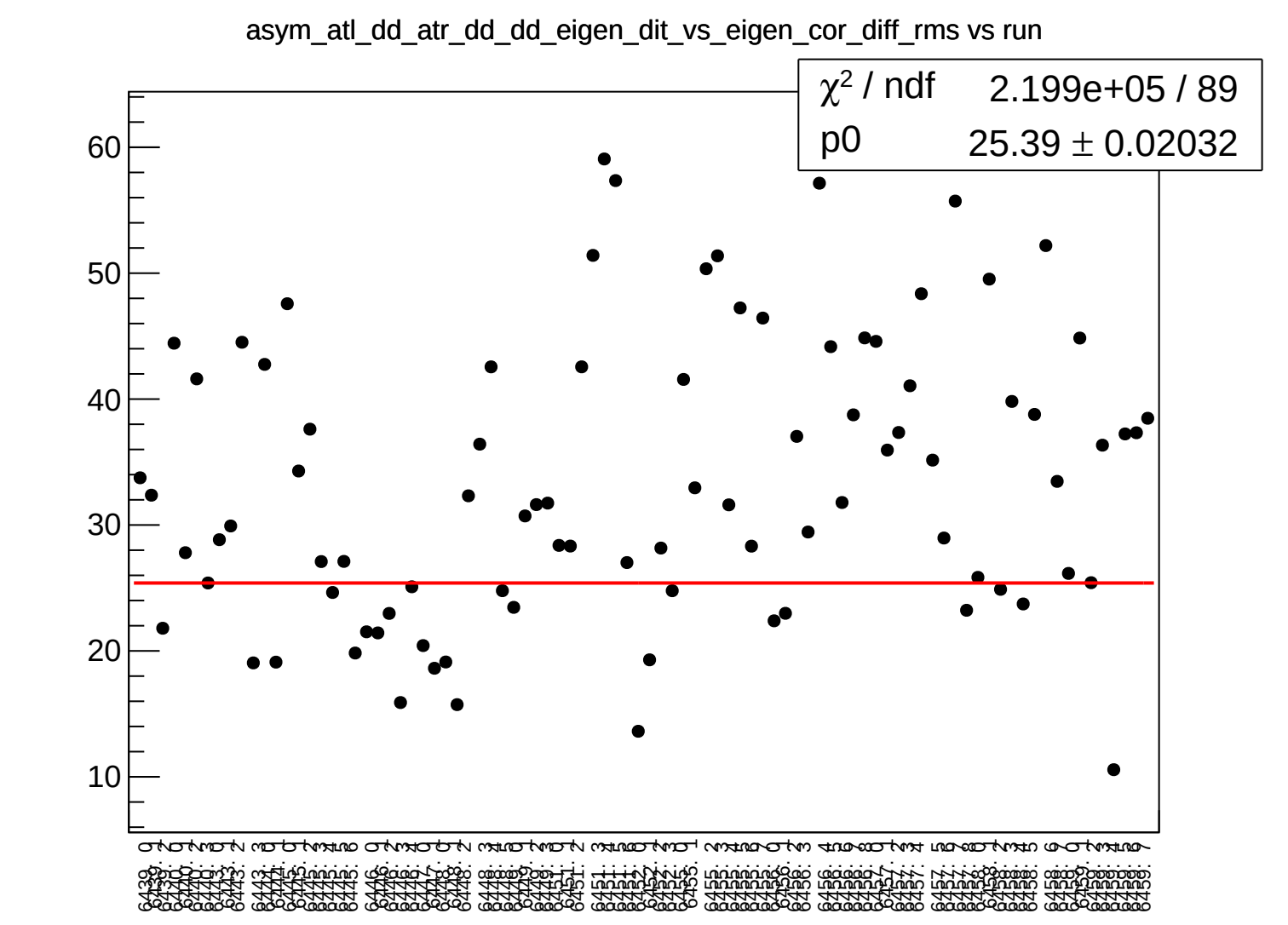

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.764e+04 / 89
p0 0.01208 ± 9.092e–06
0.016
0.015
0.014
0.013
0.012
0.011
0.01

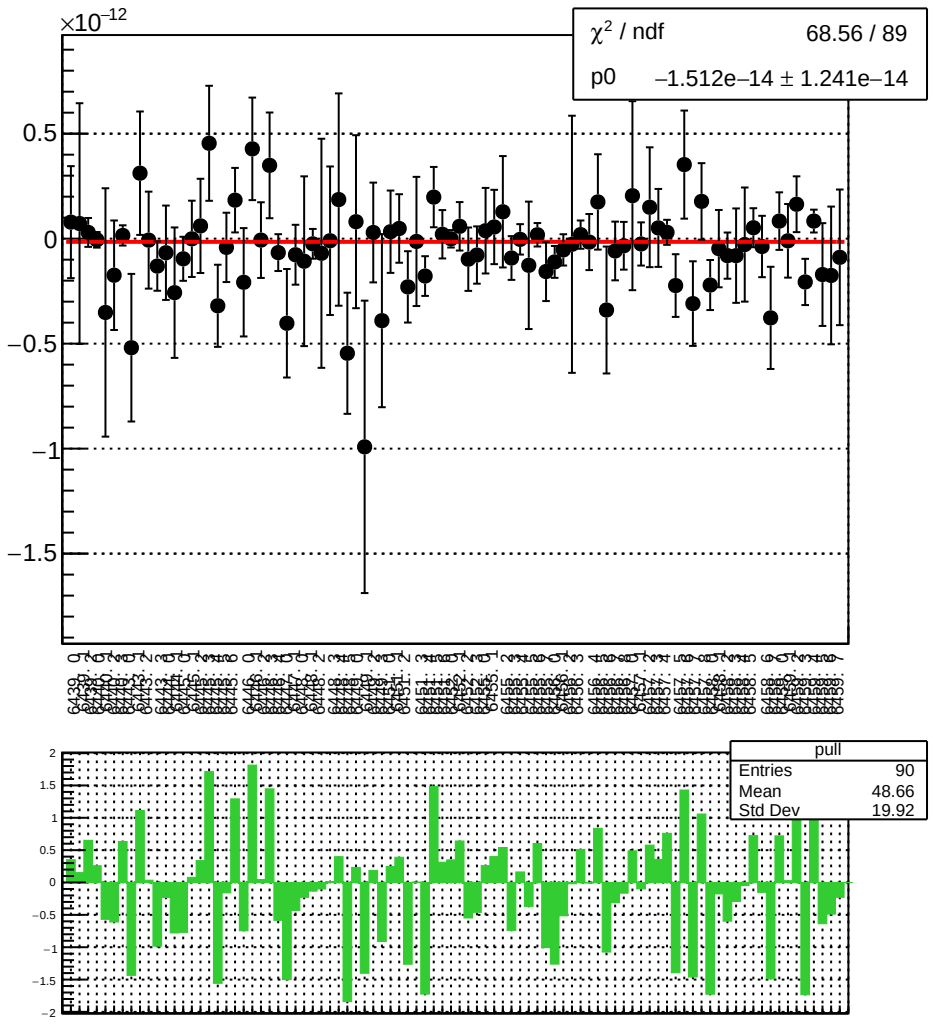

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.41 / 89
p0 0.0613 ± 0.02873
pull
Entries 90
Mean 53.04
Std Dev 39.94

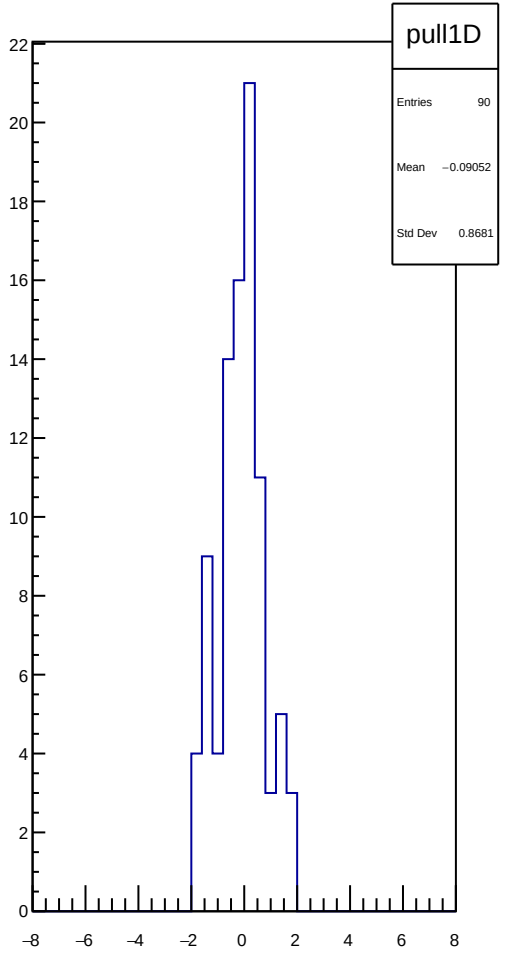

pull1D
Entries 90
Mean 0.03251
Std Dev 0.9446

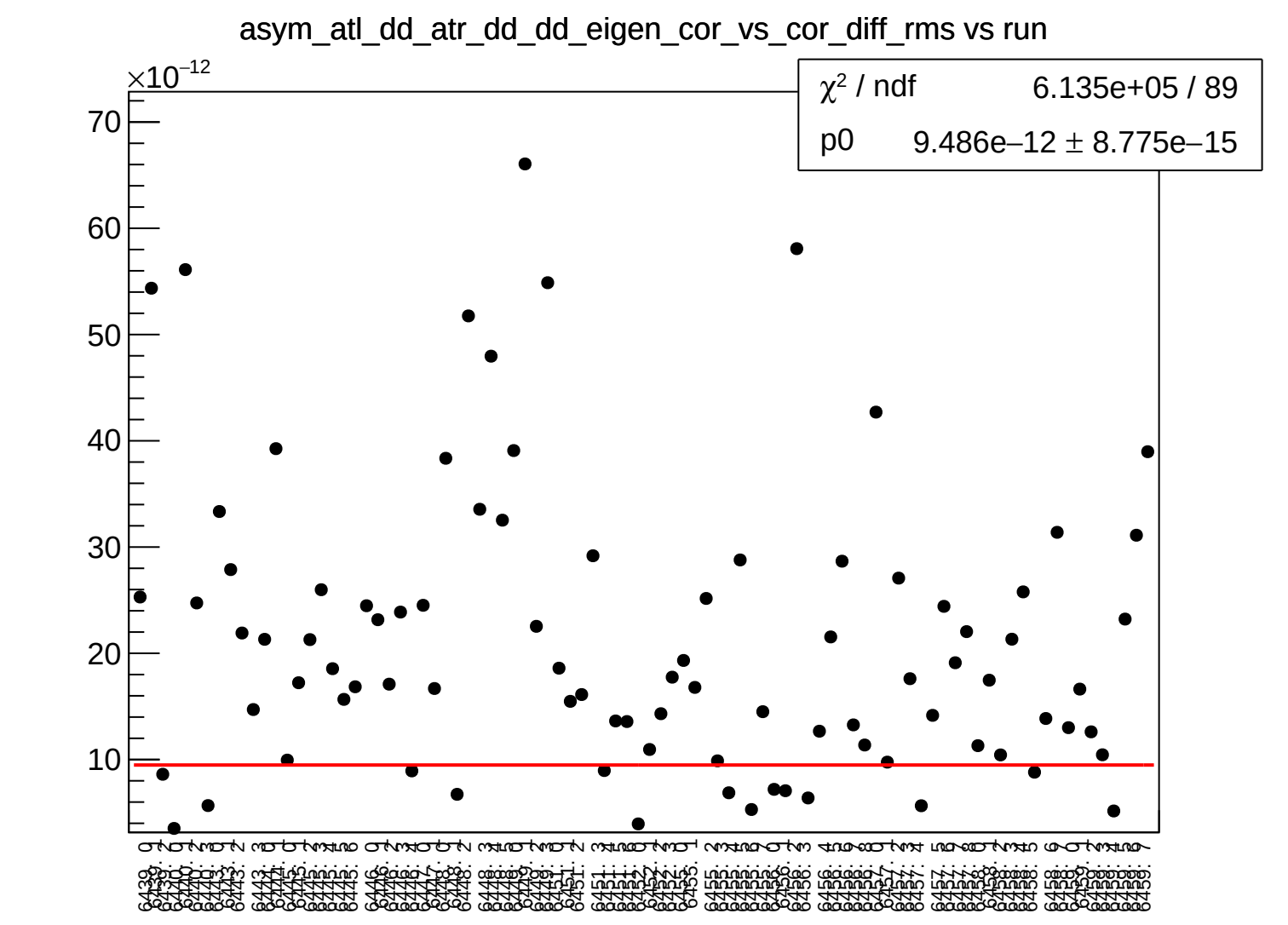

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.199e+05 / 89
p0 25.39 ± 0.02032
60
50
40
30
20
10

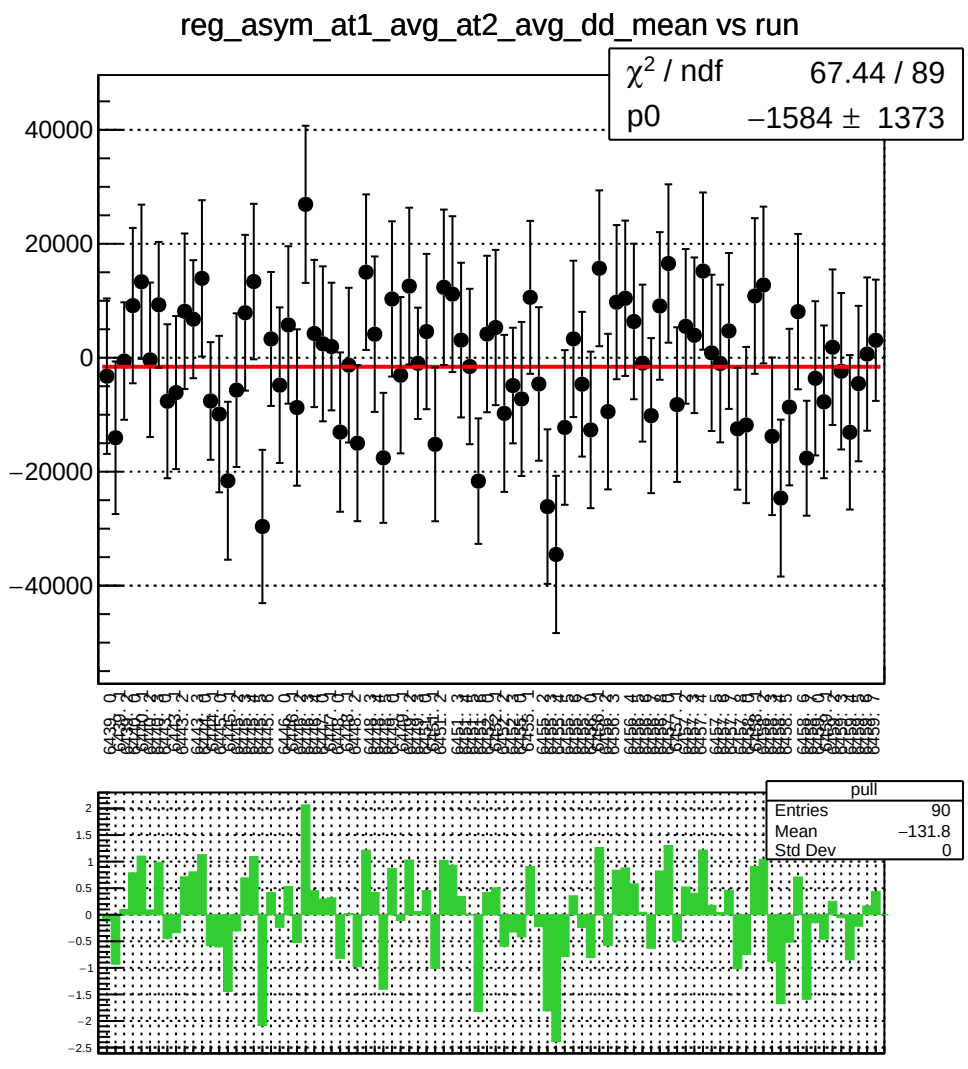

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.41 / 89
p0 0.0613 ± 0.02873
pull
Entries 90
Mean 53.04
Std Dev 39.94
pull1D
Entries 90
Mean 0.03251
Std Dev 0.9446

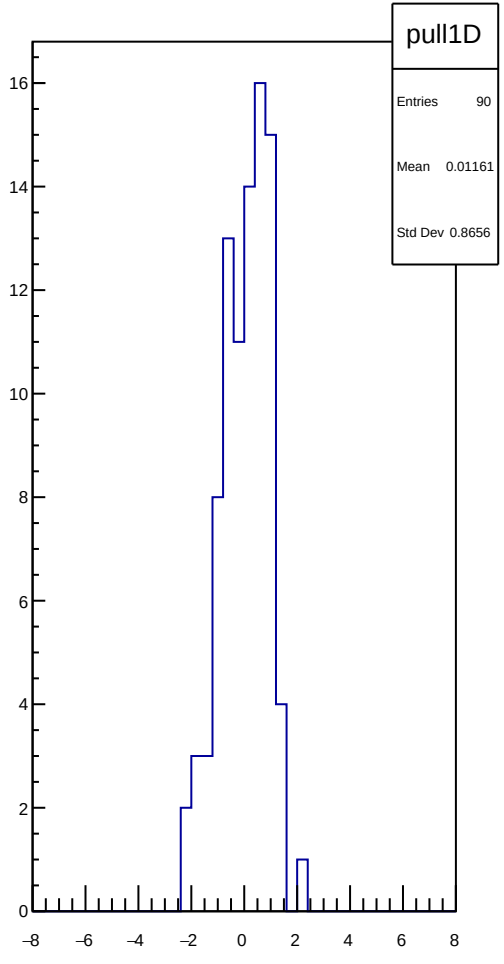

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.199e+05 / 89
p0 25.39 ± 0.02032
60
50
40
30
20
10

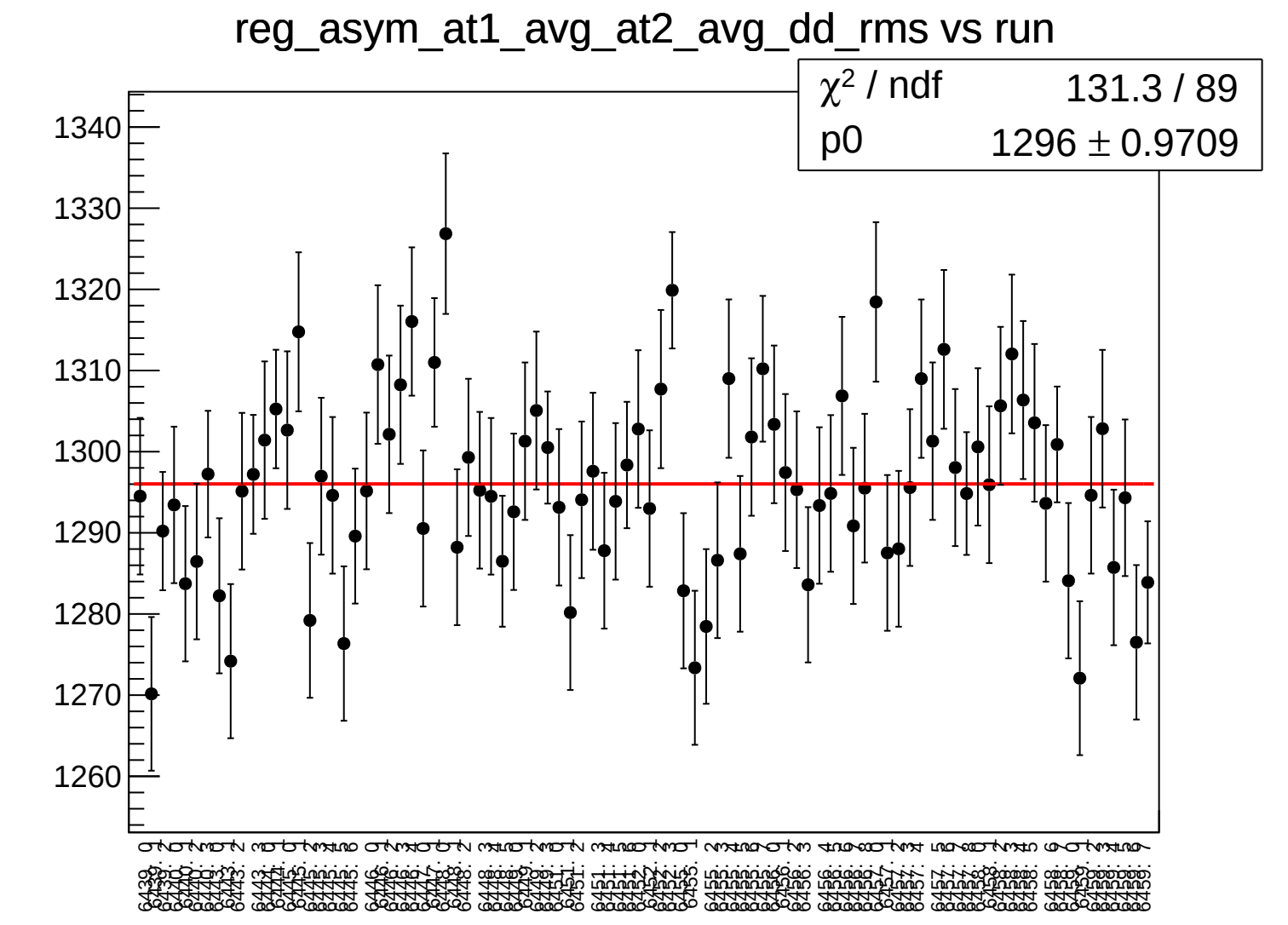

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 68.56 / 89
p0 −1.512e−14 ± 1.241e−14
0.5
0
−0.5
−1
−1.5
pull
Entries 90
Mean 48.66
Std Dev 19.92
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

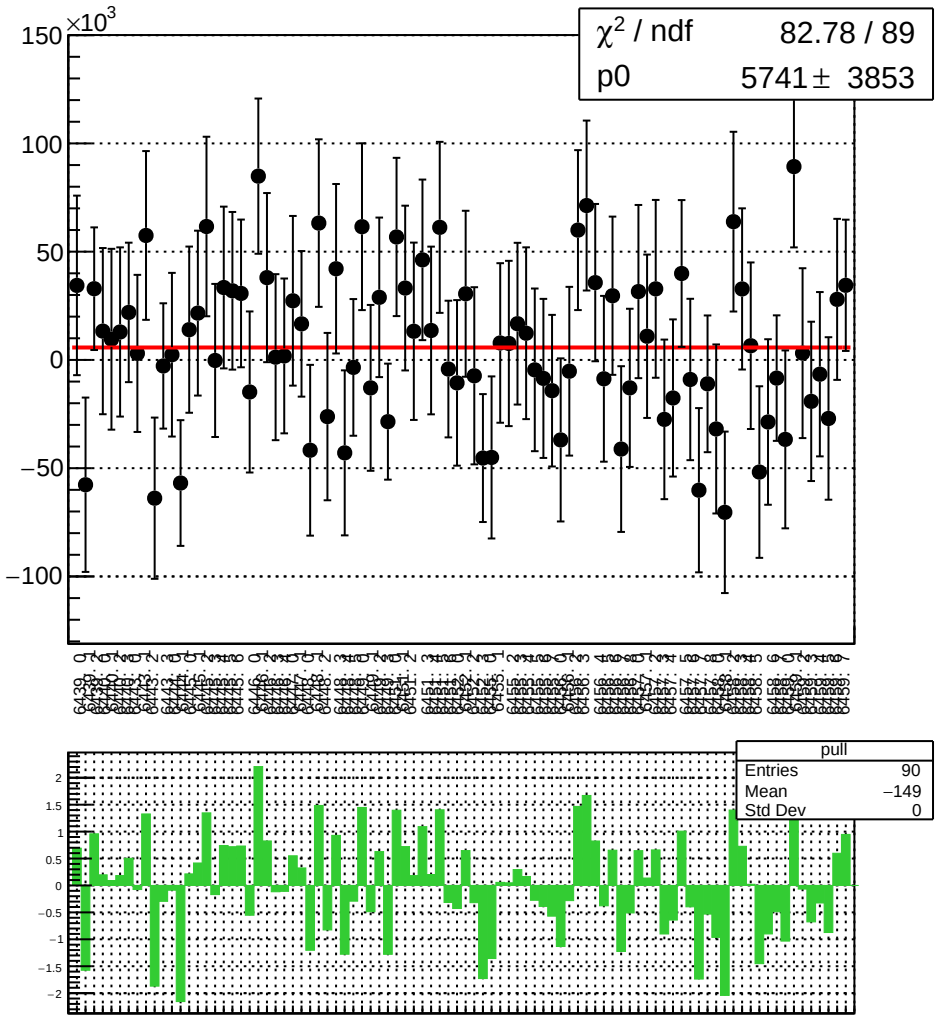

pull1D
Entries 90
Mean −0.09052
Std Dev 0.8681
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

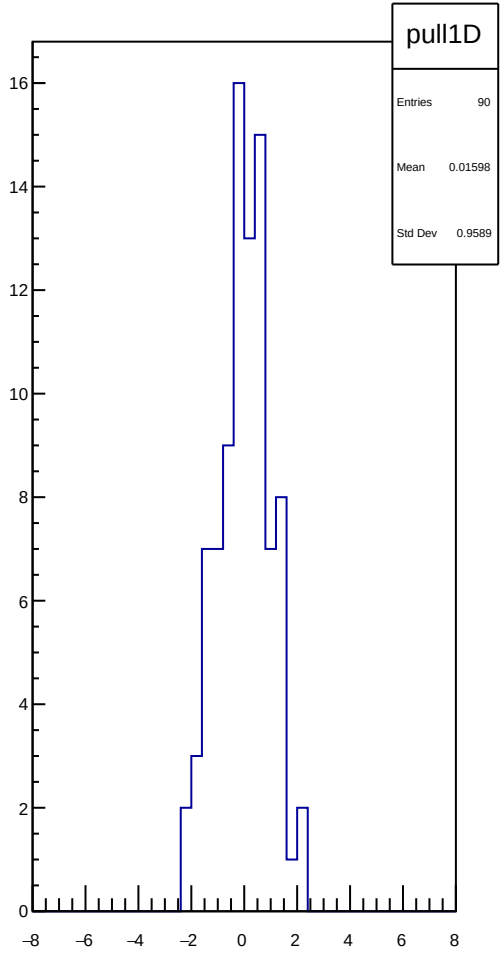

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
70
60
50
40
30
20
10
χ² / ndf 6.135e+05 / 89
p0 9.486e−12 ± 8.775e−15

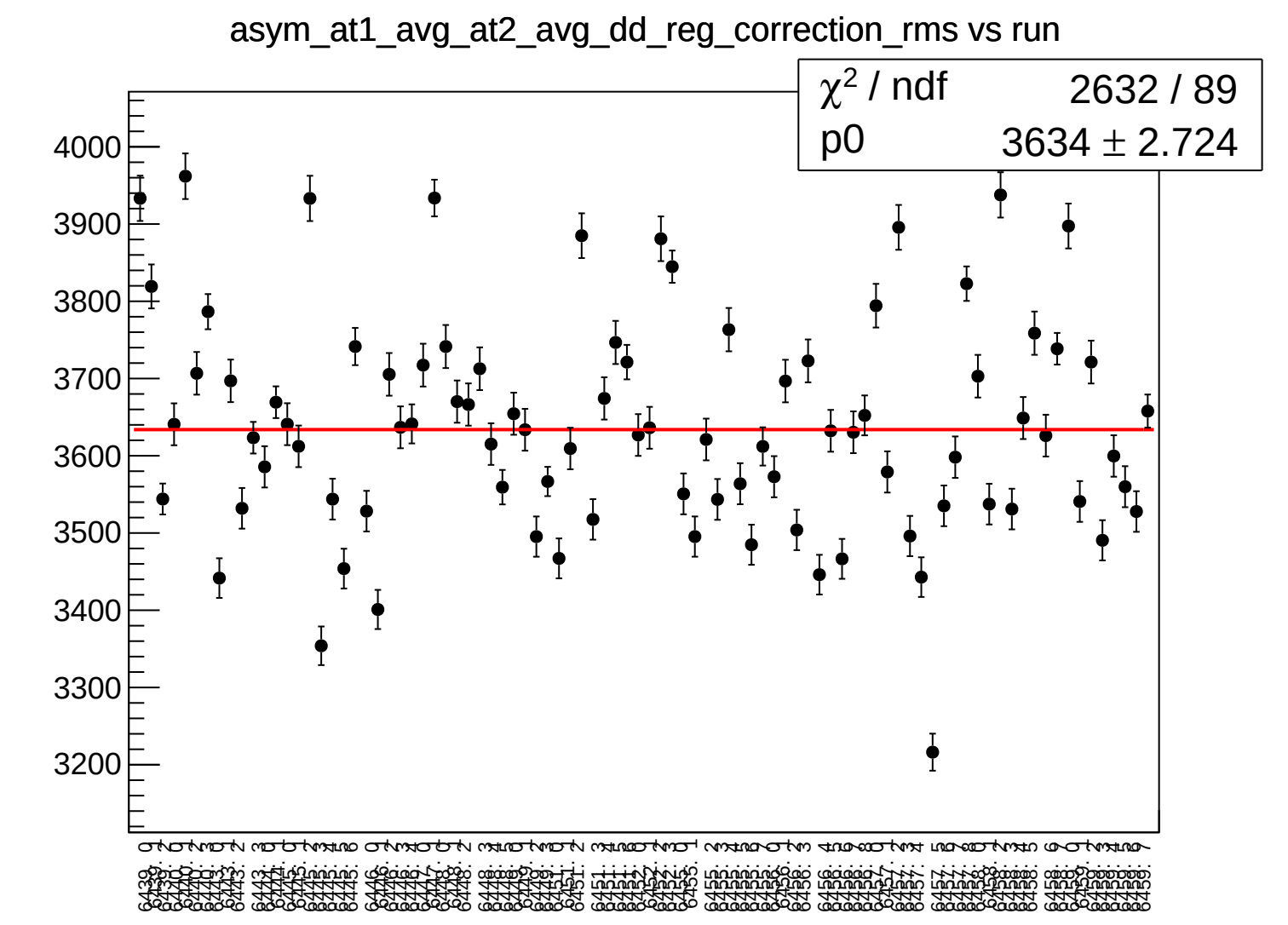

reg_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 67.44 / 89
p0 −1584 ± 1373
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −131.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

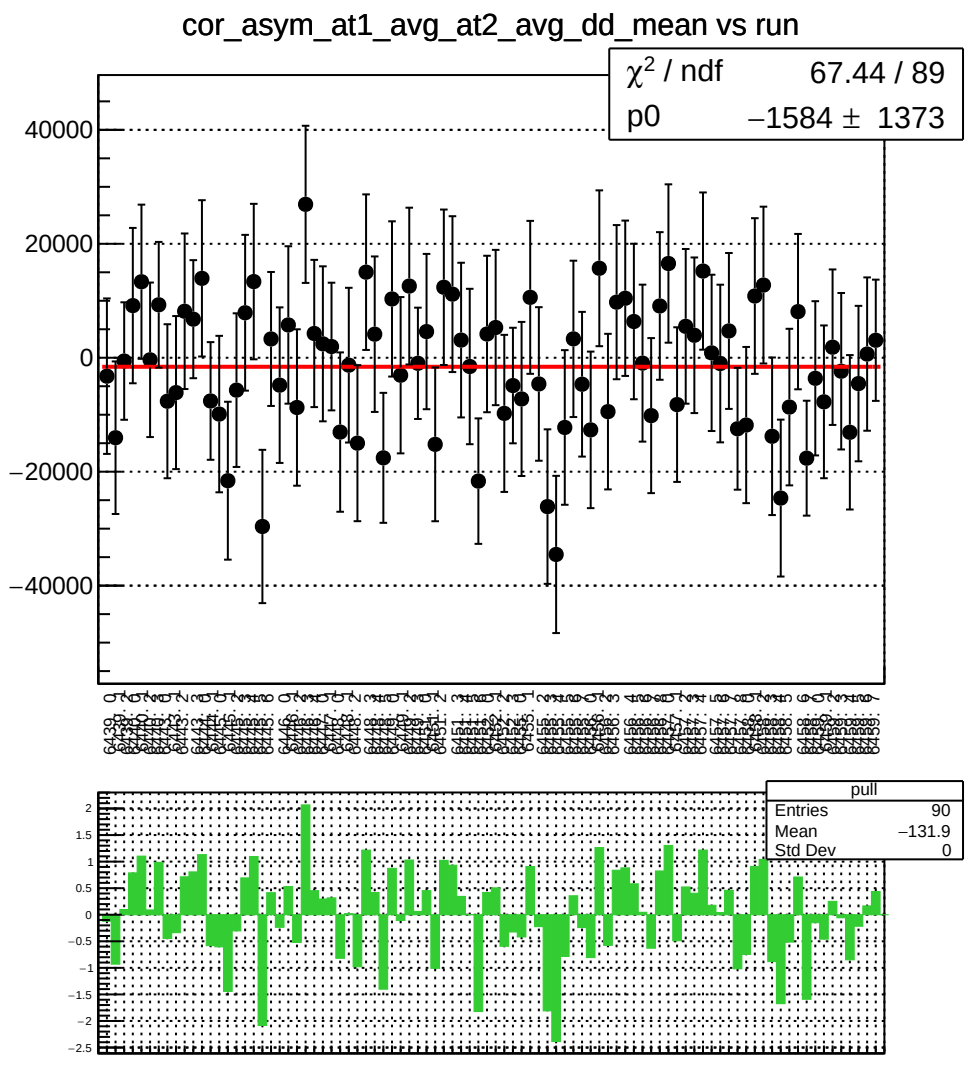

pull1D
Entries 90
Mean 0.01161
Std Dev 0.8656
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

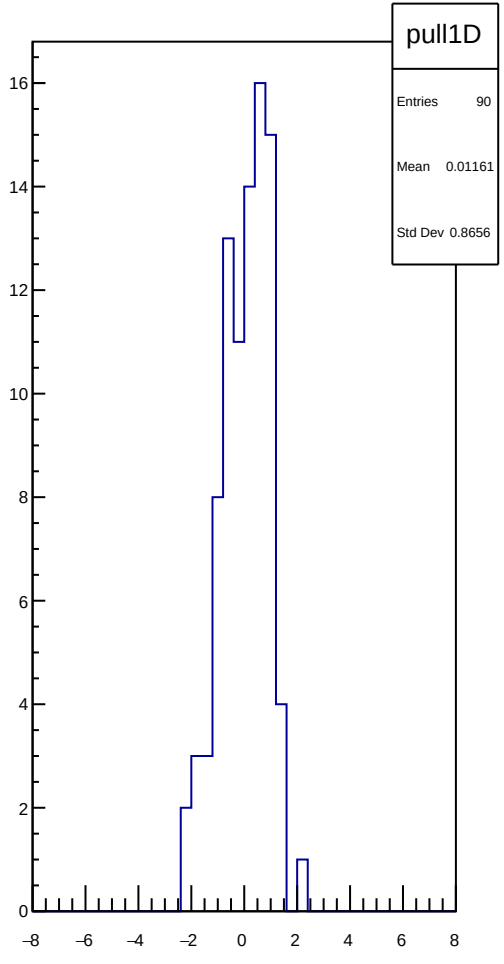

reg_asym_at1_avg_at2_avg_dd_rms vs run
χ^2 / ndf 131.3 / 89
p0 1296 ± 0.9709
1340
1330
1320
1310
1300
1290
1280
1270
1260

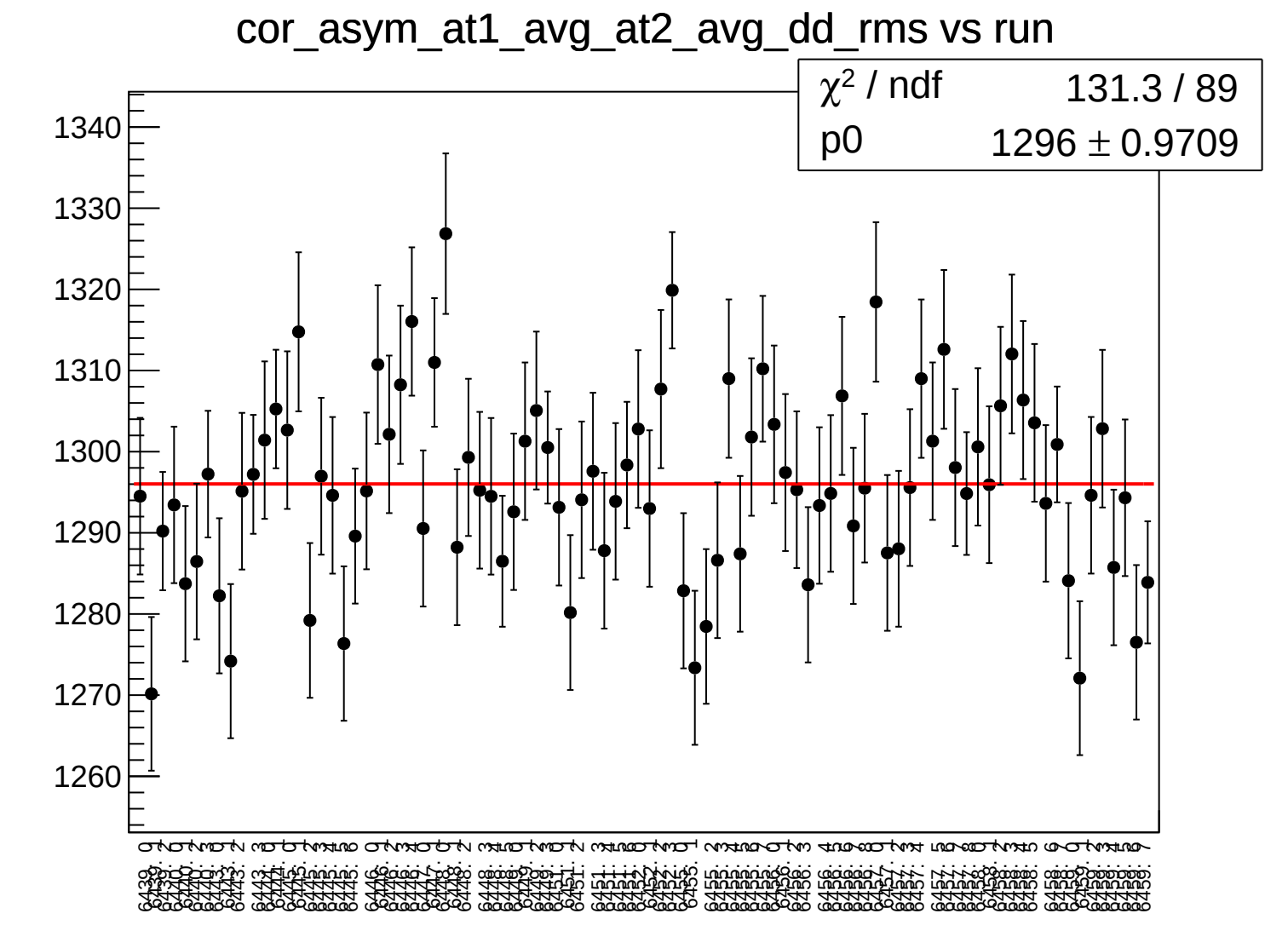

asym_at1_avg_at2_avg_dd_reg_correction_mean vs run
χ² / ndf 82.78 / 89
p0 5741 ± 3853
×10³
150
100
50
0
−50
−100
pull
Entries 90
Mean −149
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

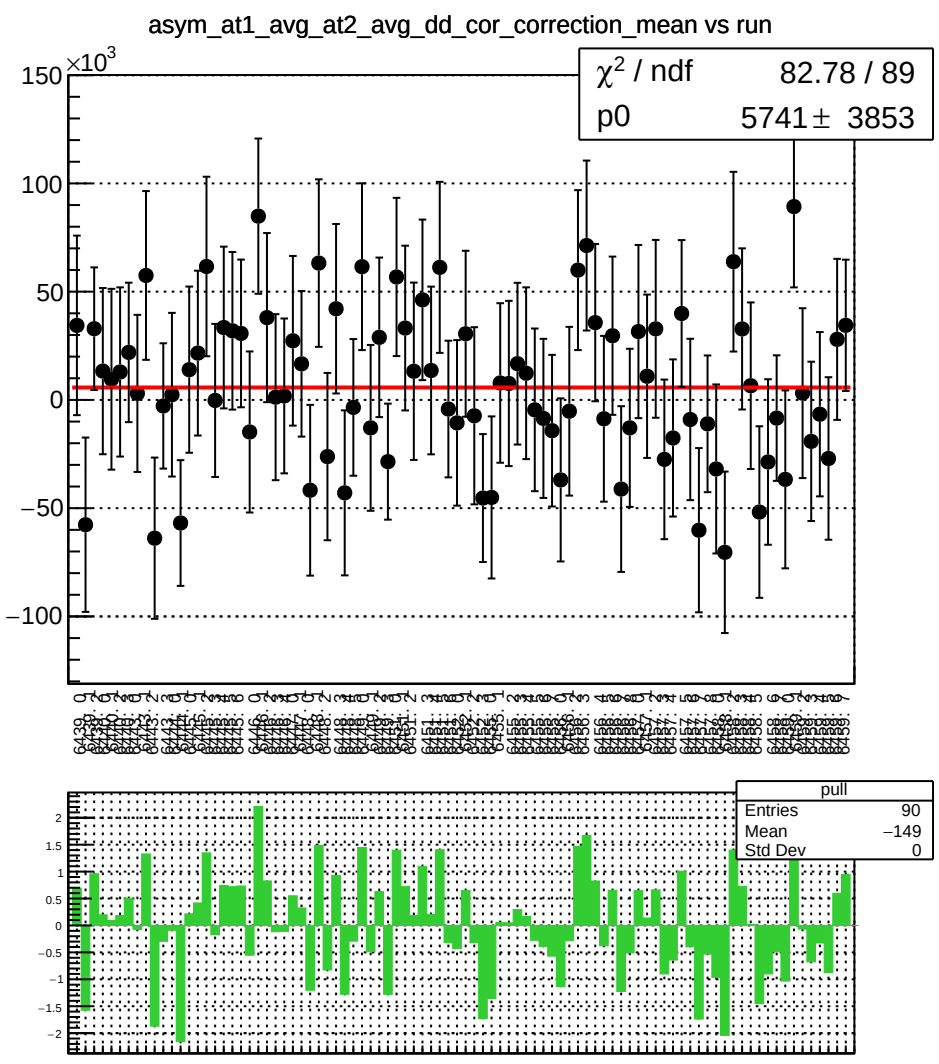

pull1D
Entries 90
Mean 0.01598
Std Dev 0.9589
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

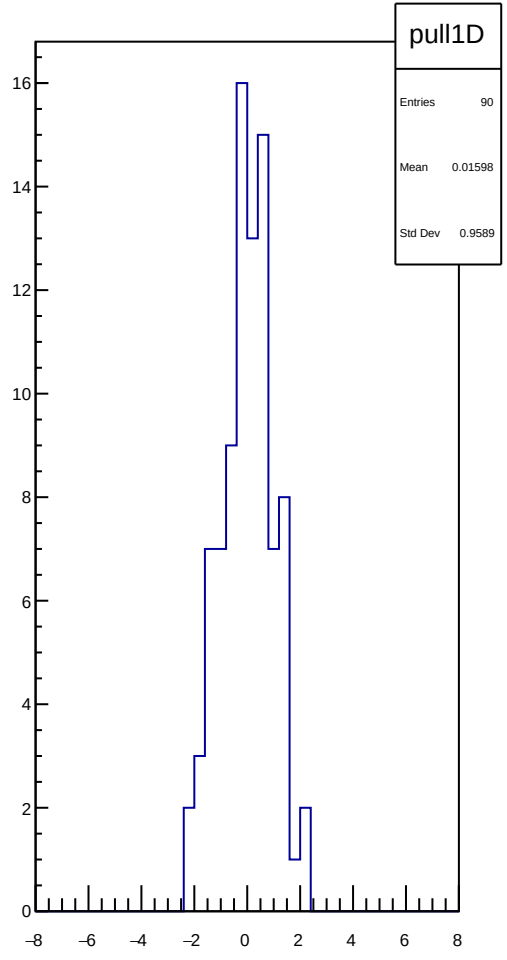

asym_at1_avg_at2_avg_dd_reg_correction_rms vs run
χ² / ndf 2632 / 89
p0 3634 ± 2.724
4000
3900
3800
3700
3600
3500
3400
3300
3200

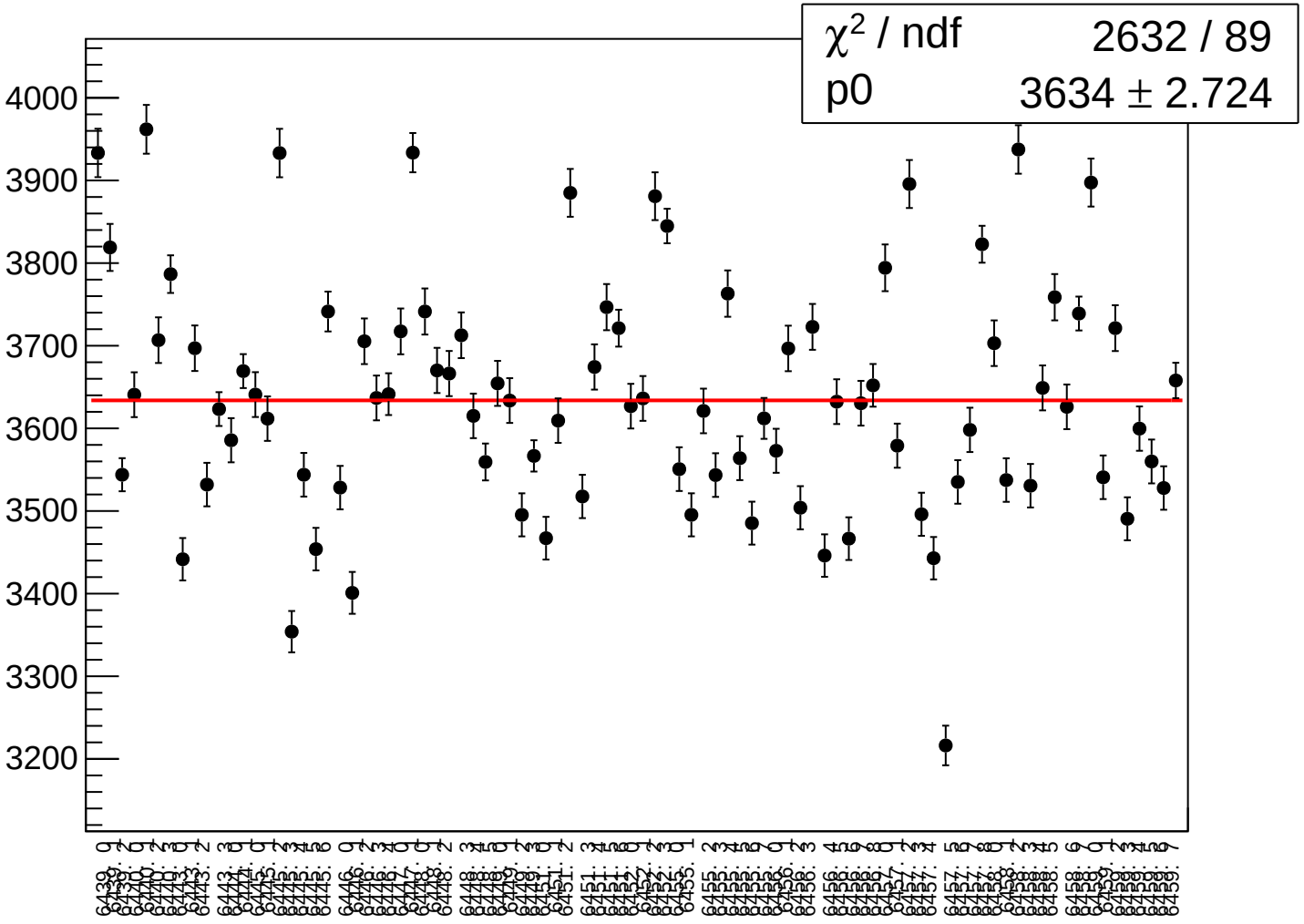

cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 67.44 / 89
p0 −1584 ± 1373
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −131.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

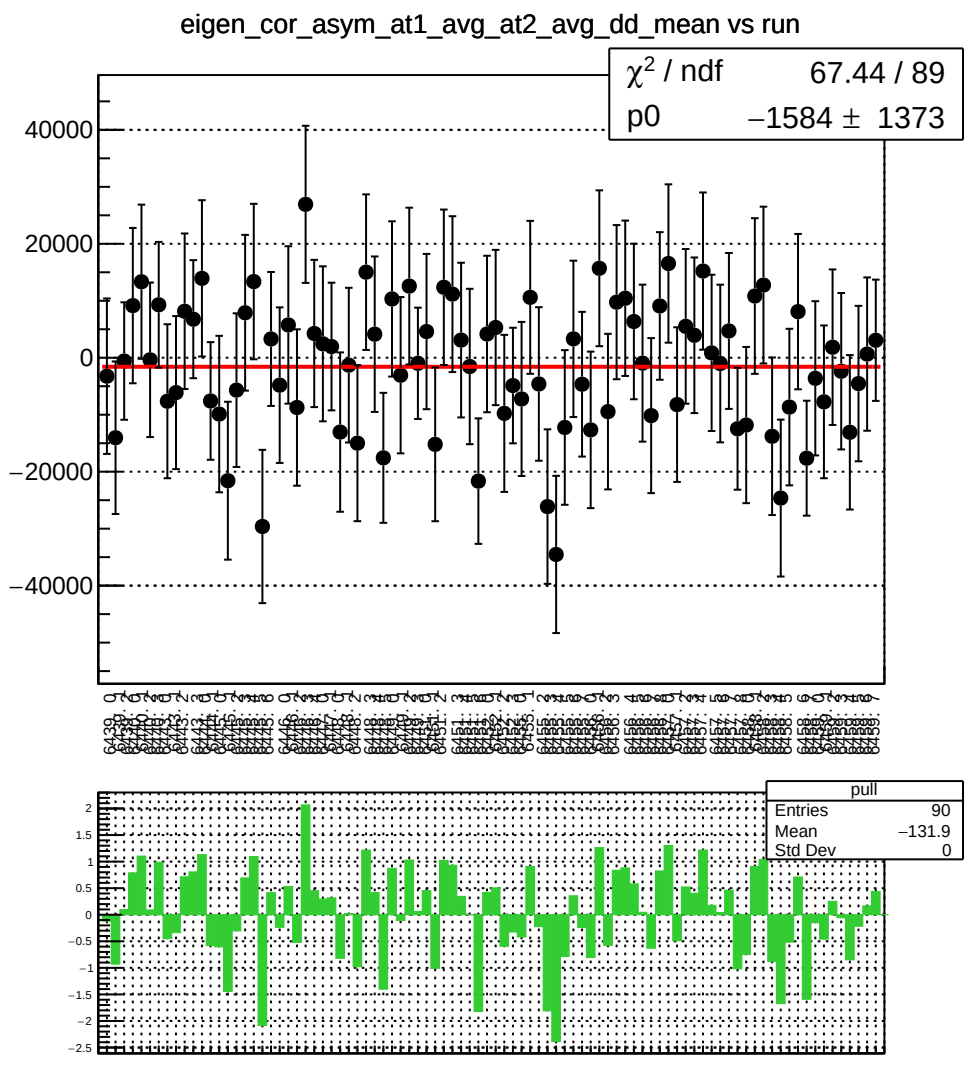

pull1D
Entries 90
Mean 0.01161
Std Dev 0.8656
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

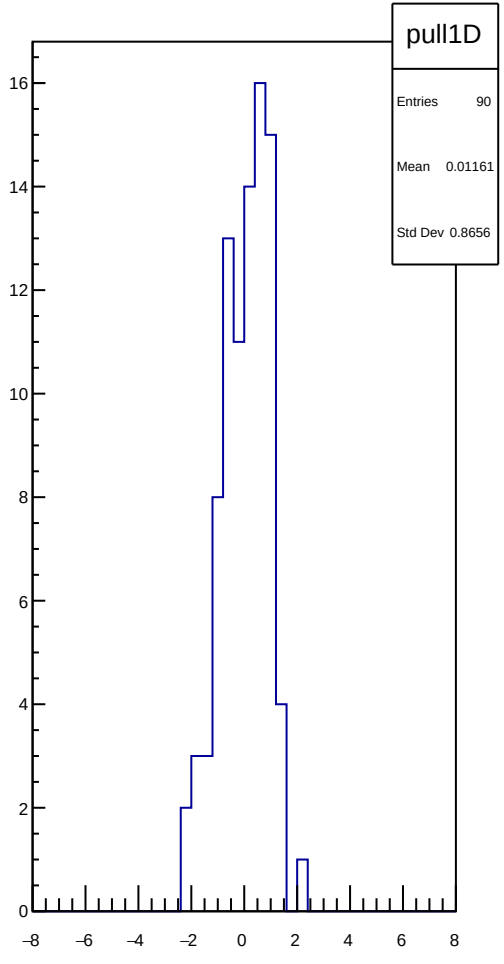

cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 131.3 / 89
p0 1296 ± 0.9709
1340
1330
1320
1310
1300
1290
1280
1270
1260

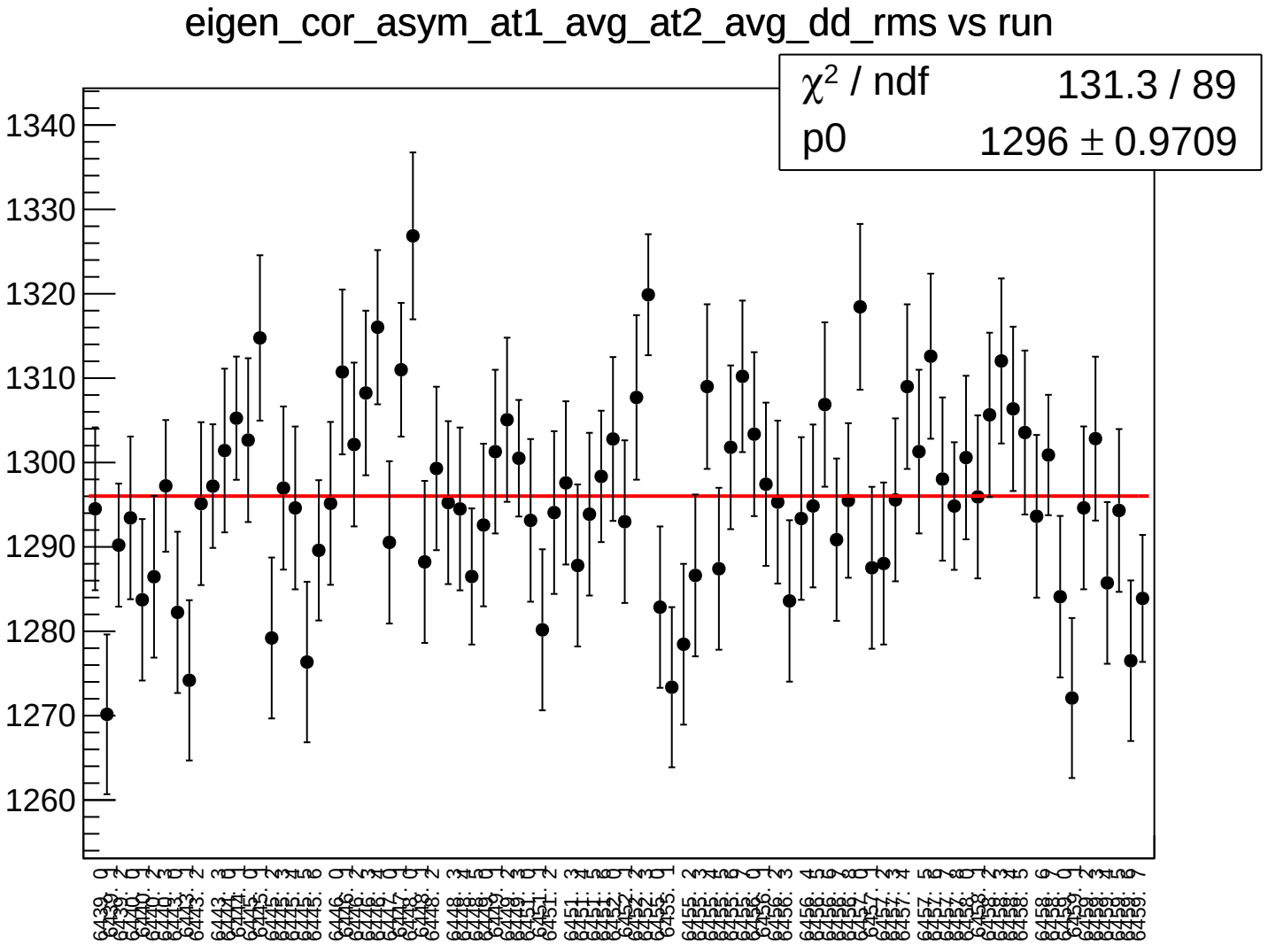

asym_at1_avg_at2_avg_dd_cor_correction_mean vs run
χ² / ndf 82.78 / 89
p0 5741 ± 3853
×10³
150
100
50
0
−50
−100
pull
Entries 90
Mean −149
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

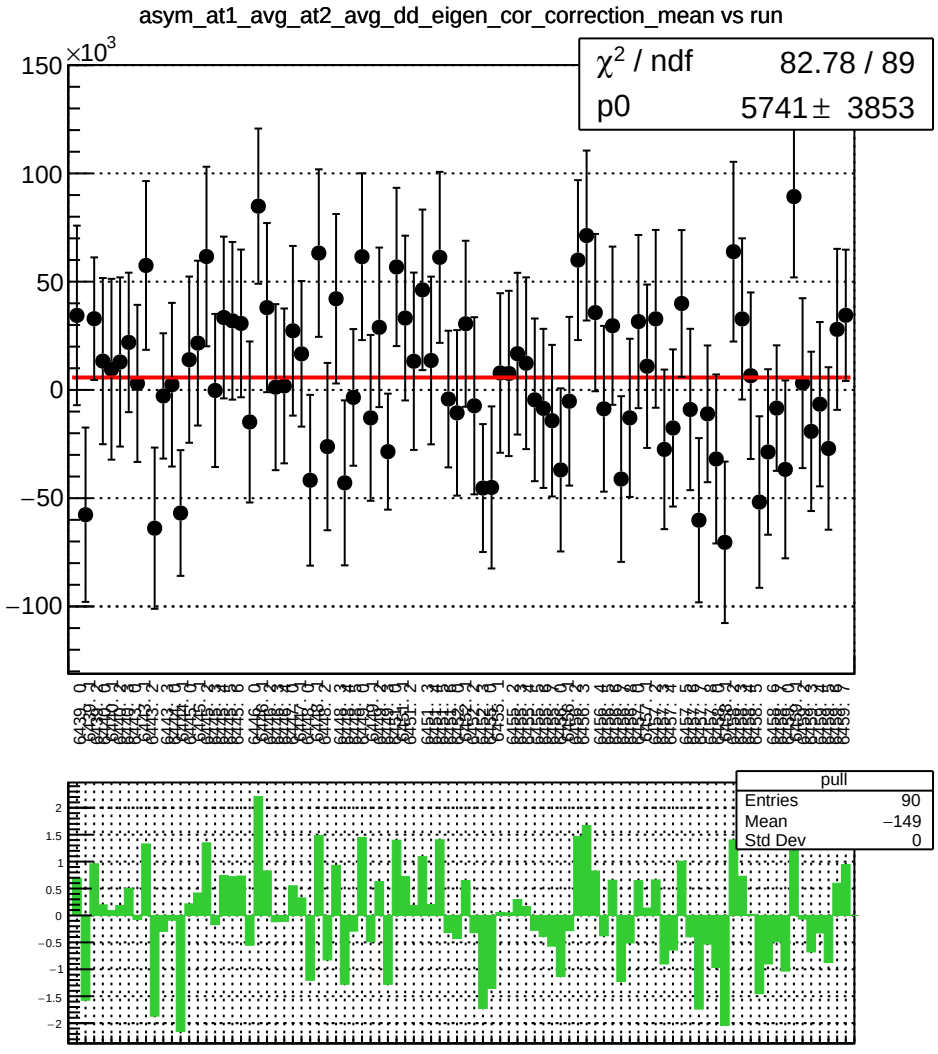

pull1D
Entries 90
Mean 0.01598
Std Dev 0.9589
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

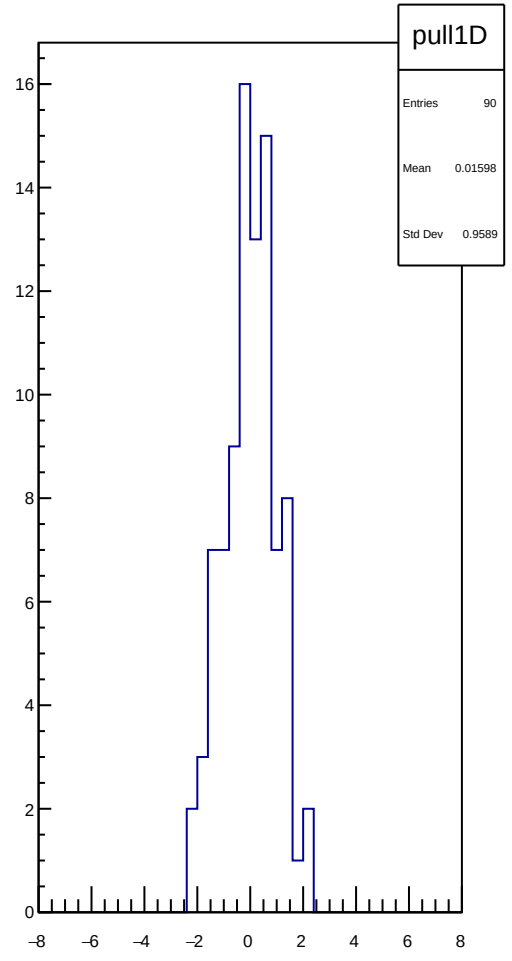

asym_at1_avg_at2_avg_dd_cor_correction_rms vs run
χ² / ndf 2632 / 89
p0 3634 ± 2.724
4000
3900
3800
3700
3600
3500
3400
3300
3200

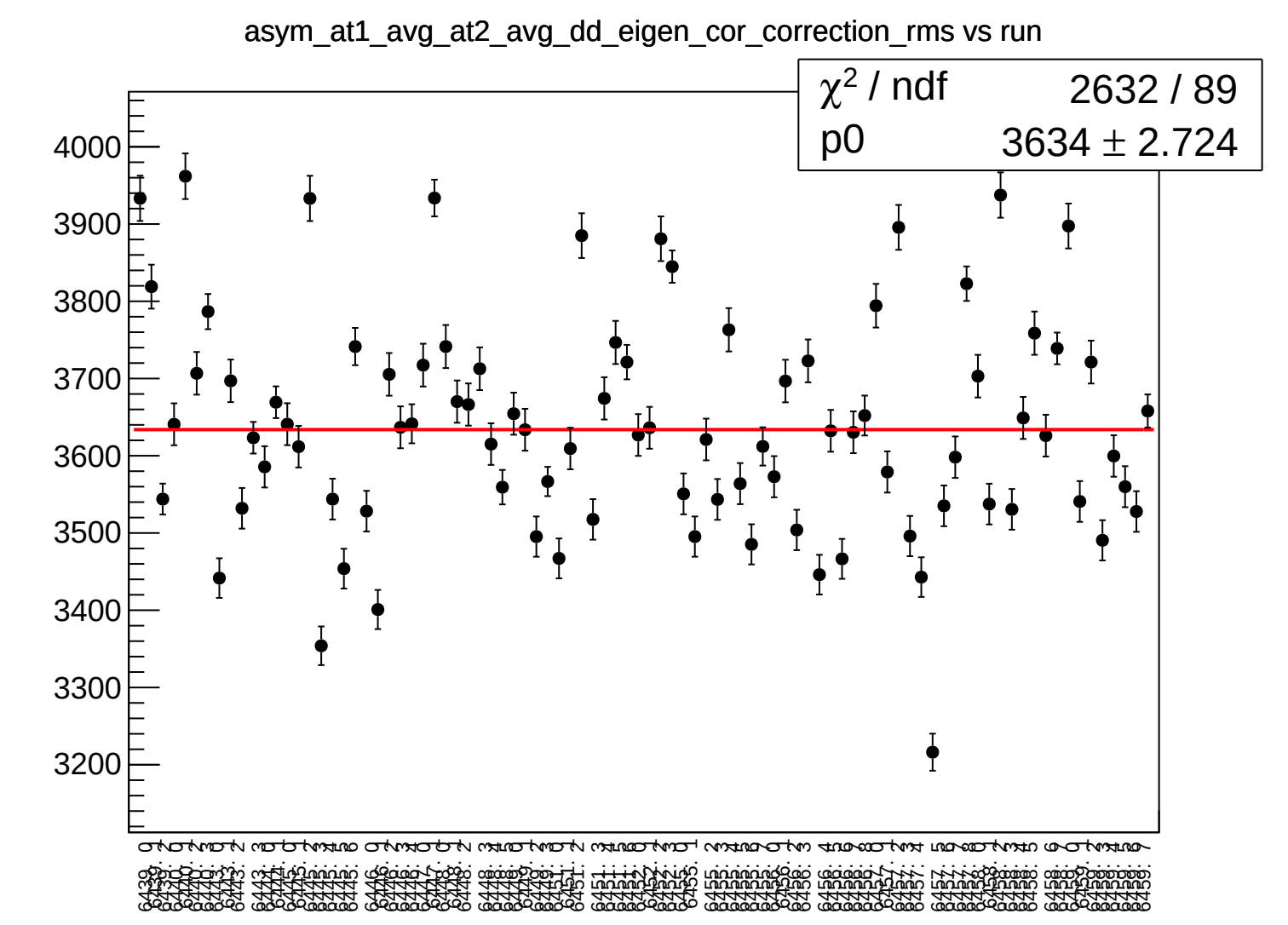

eigen_cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 67.44 / 89
p0 −1584 ± 1373
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −131.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

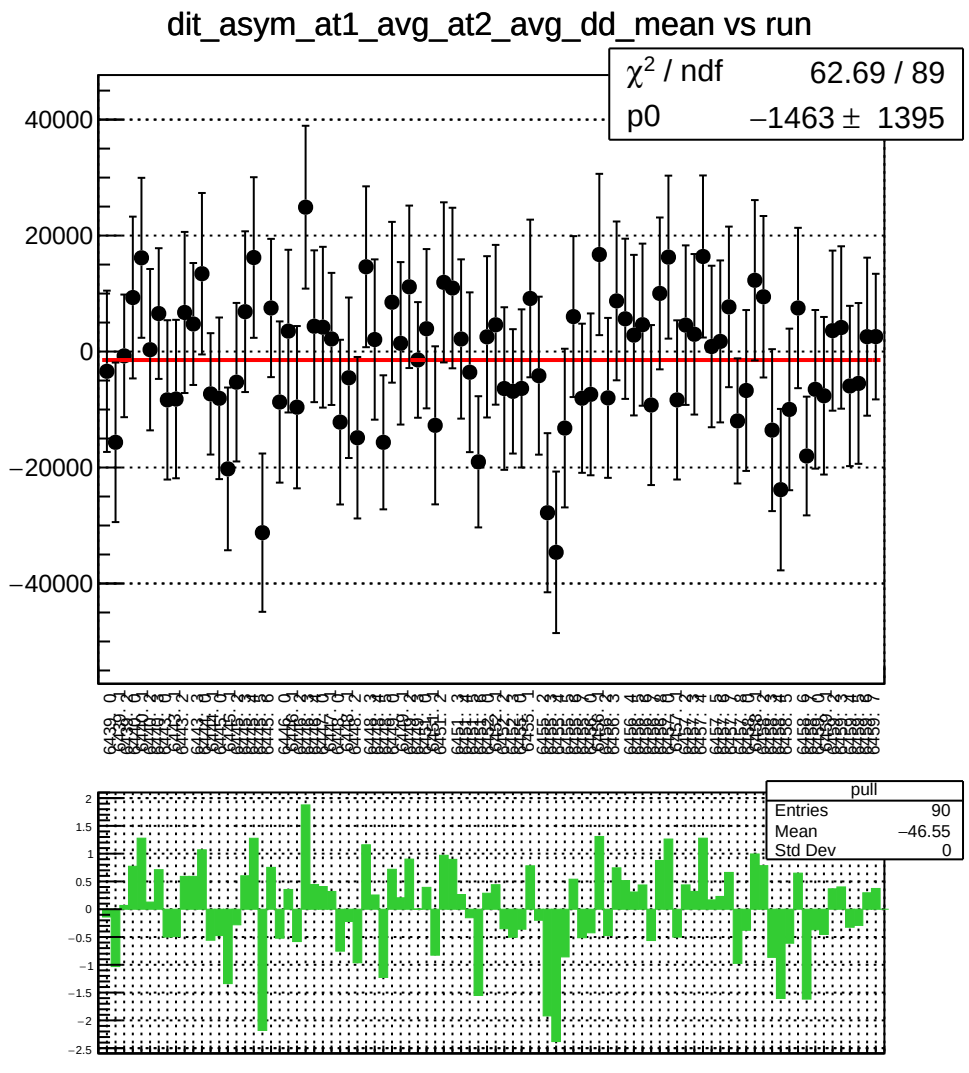

pull1D
Entries 90
Mean 0.01161
Std Dev 0.8656
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

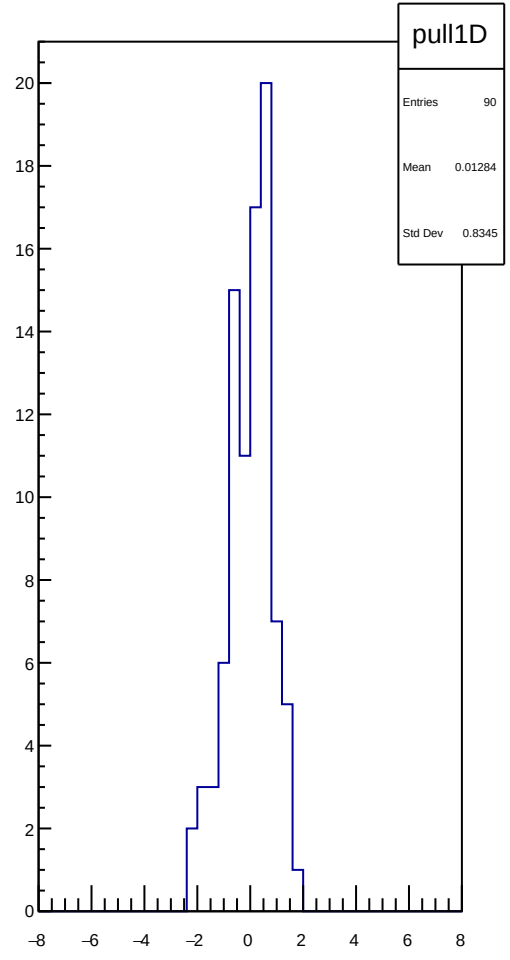

eigen_cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 131.3 / 89
p0 1296 ± 0.9709
1340
1330
1320
1310
1300
1290
1280
1270
1260

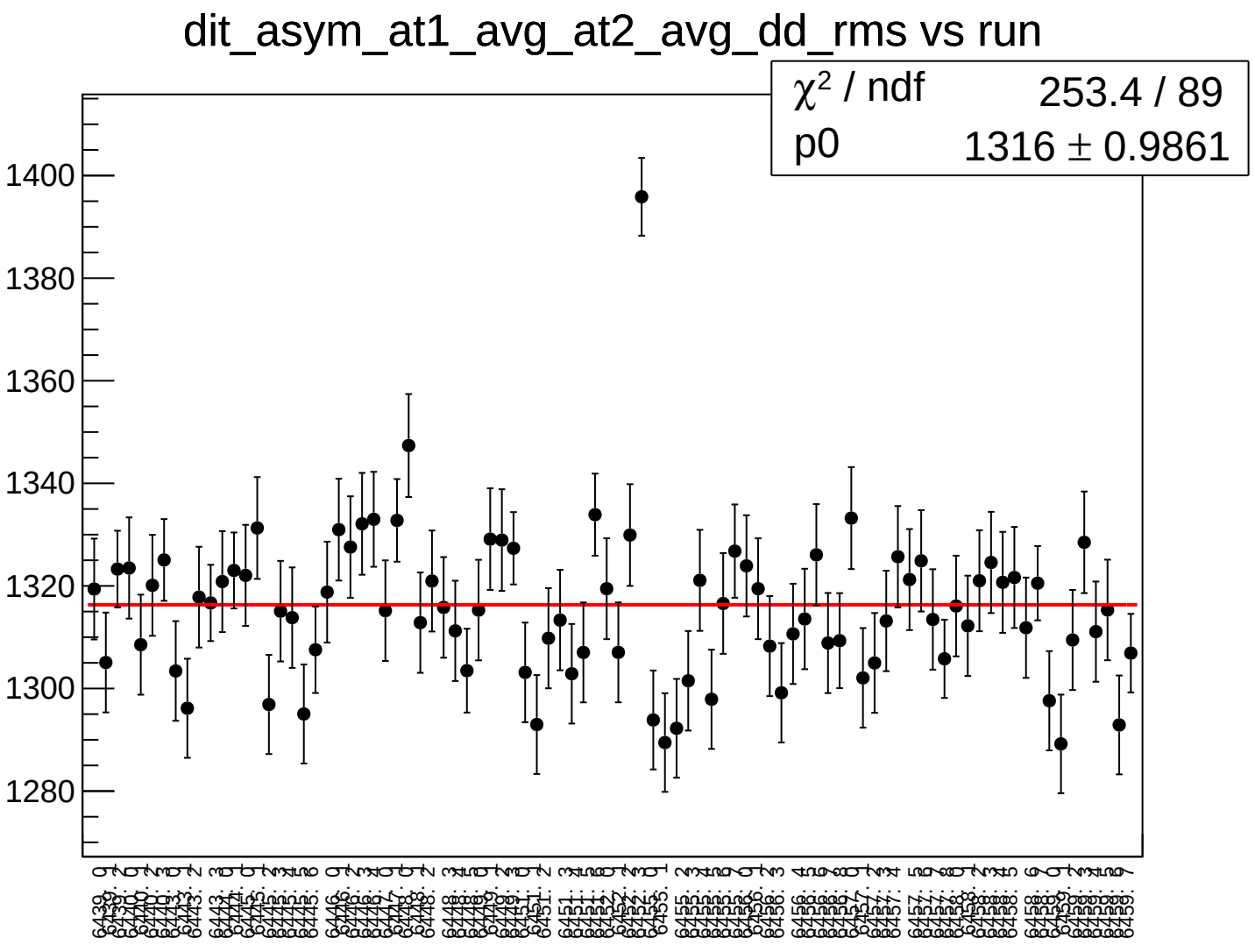

asym_at1_avg_at2_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 82.78 / 89
p0 5741 ± 3853
×10³
150
100
50
0
−50
−100
pull
Entries 90
Mean −149
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

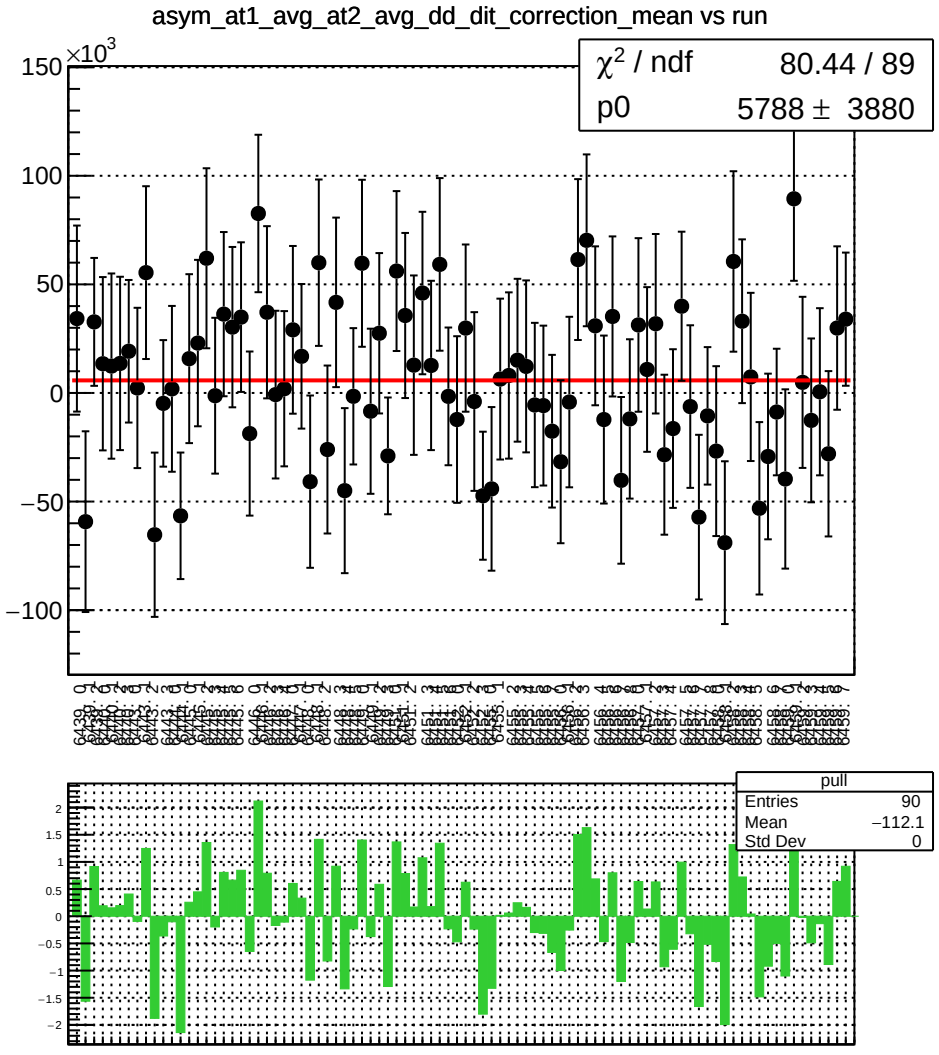

pull1D
Entries 90
Mean 0.01598
Std Dev 0.9589
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

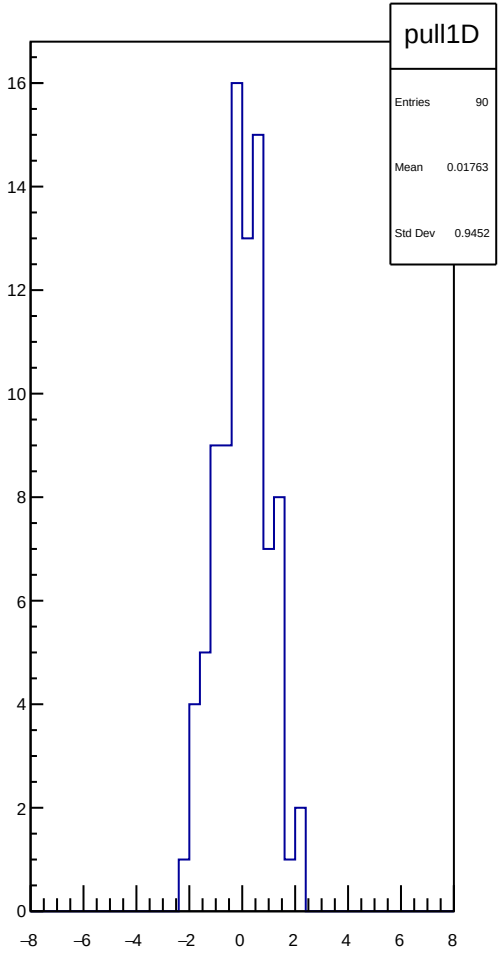

asym_at1_avg_at2_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 2632 / 89
p0 3634 ± 2.724
4000
3900
3800
3700
3600
3500
3400
3300
3200

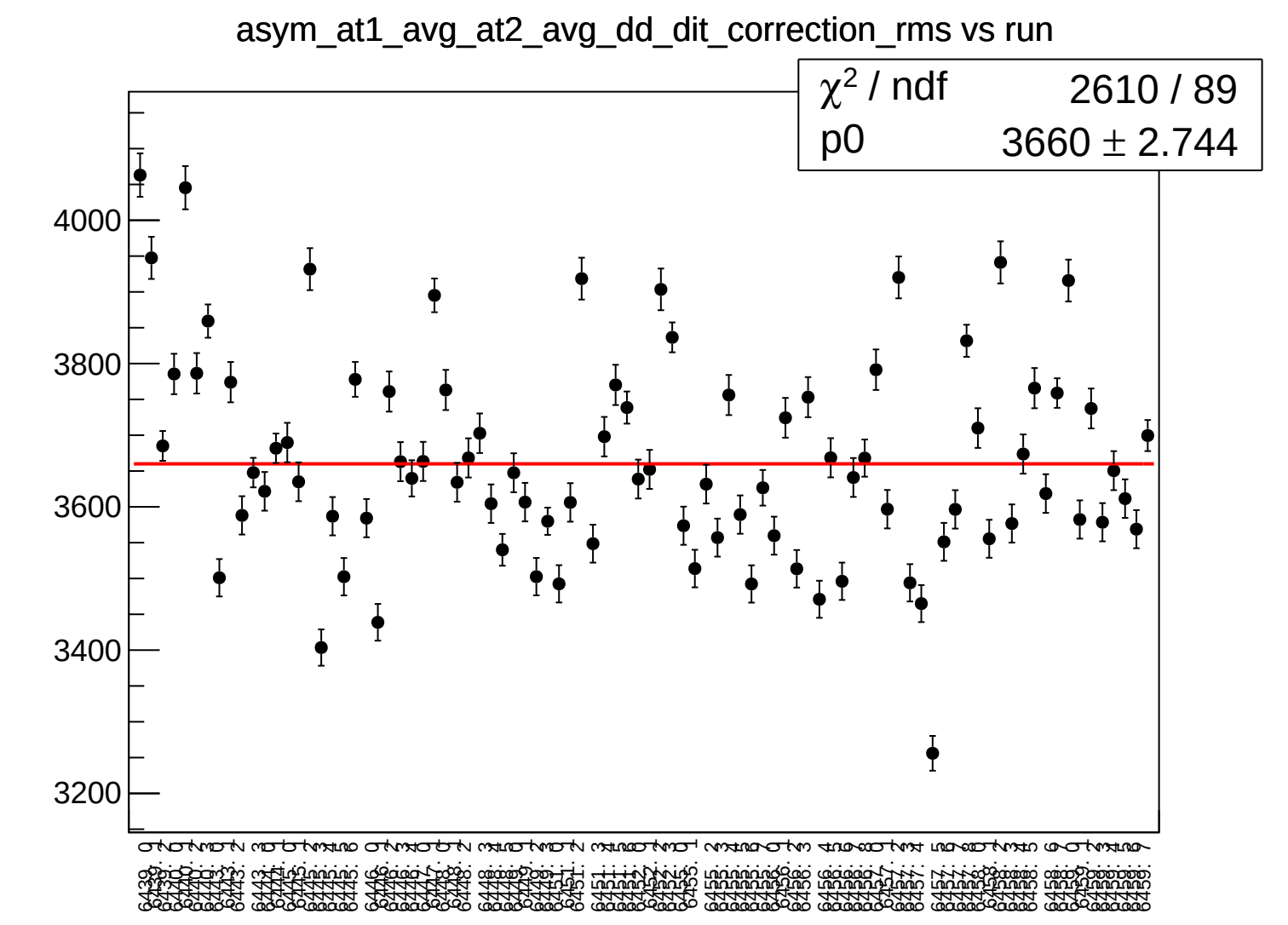

dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 62.69 / 89
p0 −1463 ± 1395
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −46.55
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

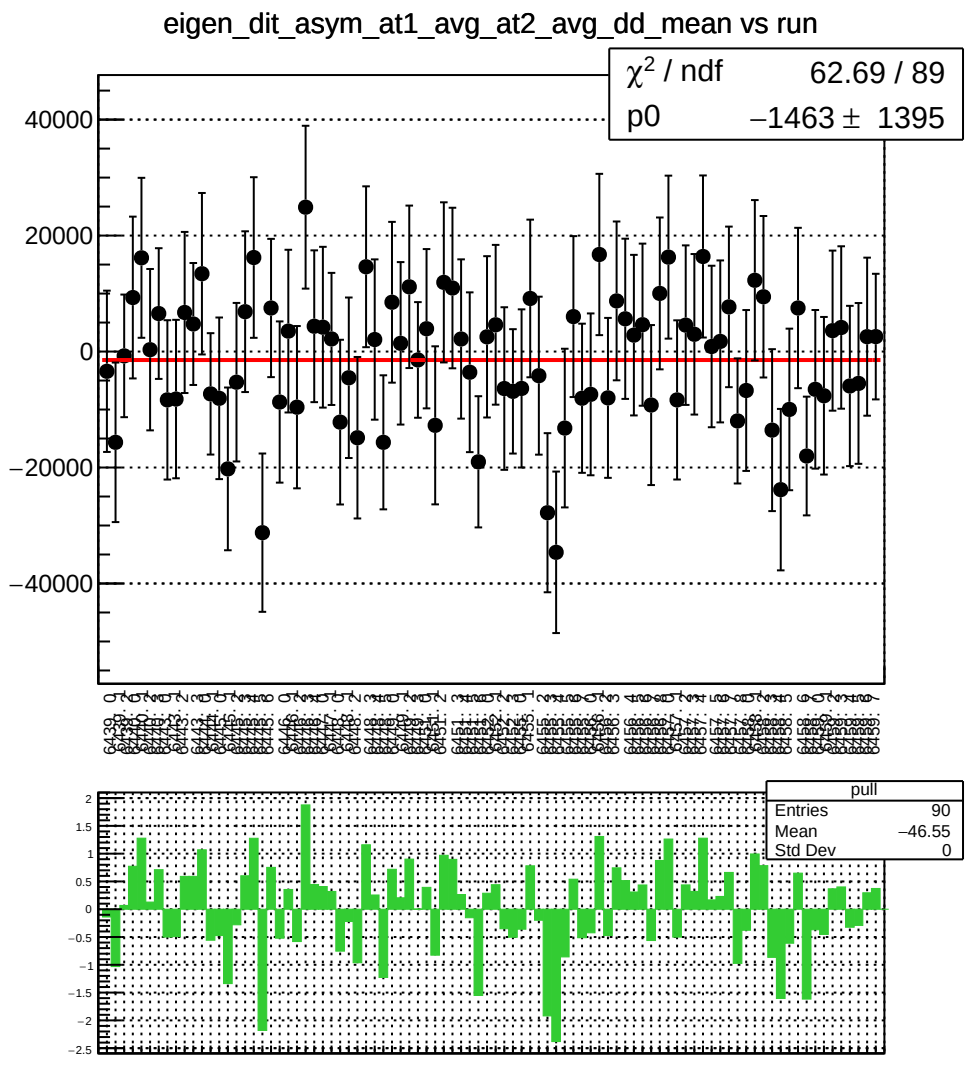

pull1D
Entries 90
Mean 0.01284
Std Dev 0.8345
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

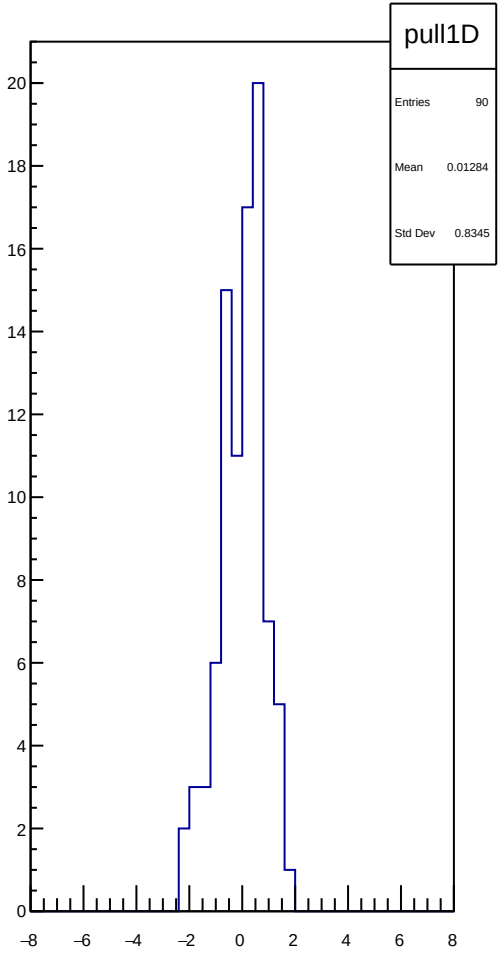

dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 253.4 / 89
p0 1316 ± 0.9861
1400
1380
1360
1340
1320
1300
1280

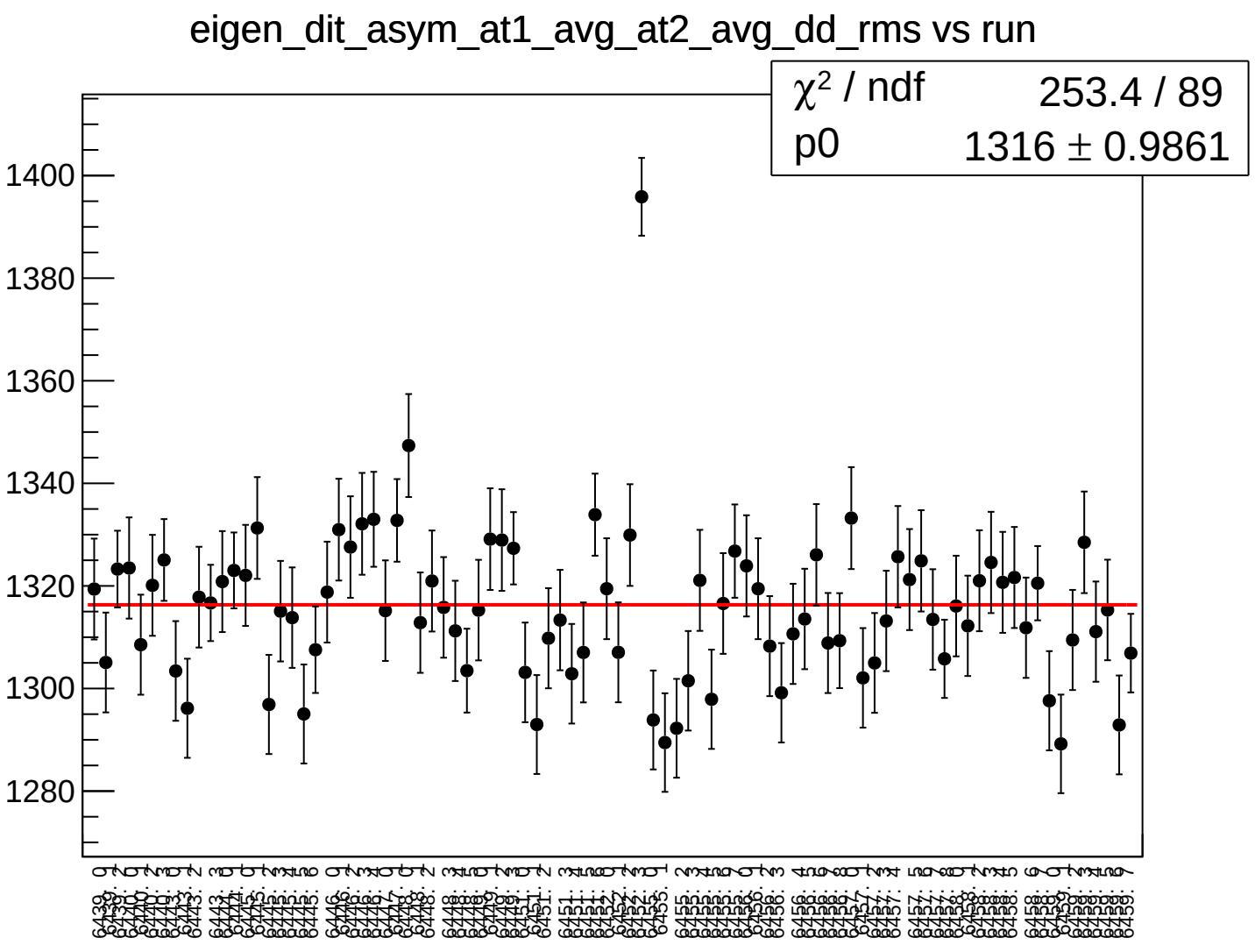

asym_at1_avg_at2_avg_dd_dit_correction_mean vs run
χ² / ndf 80.44 / 89
p0 5788 ± 3880
×10³
pull
Entries 90
Mean −112.1
Std Dev 0

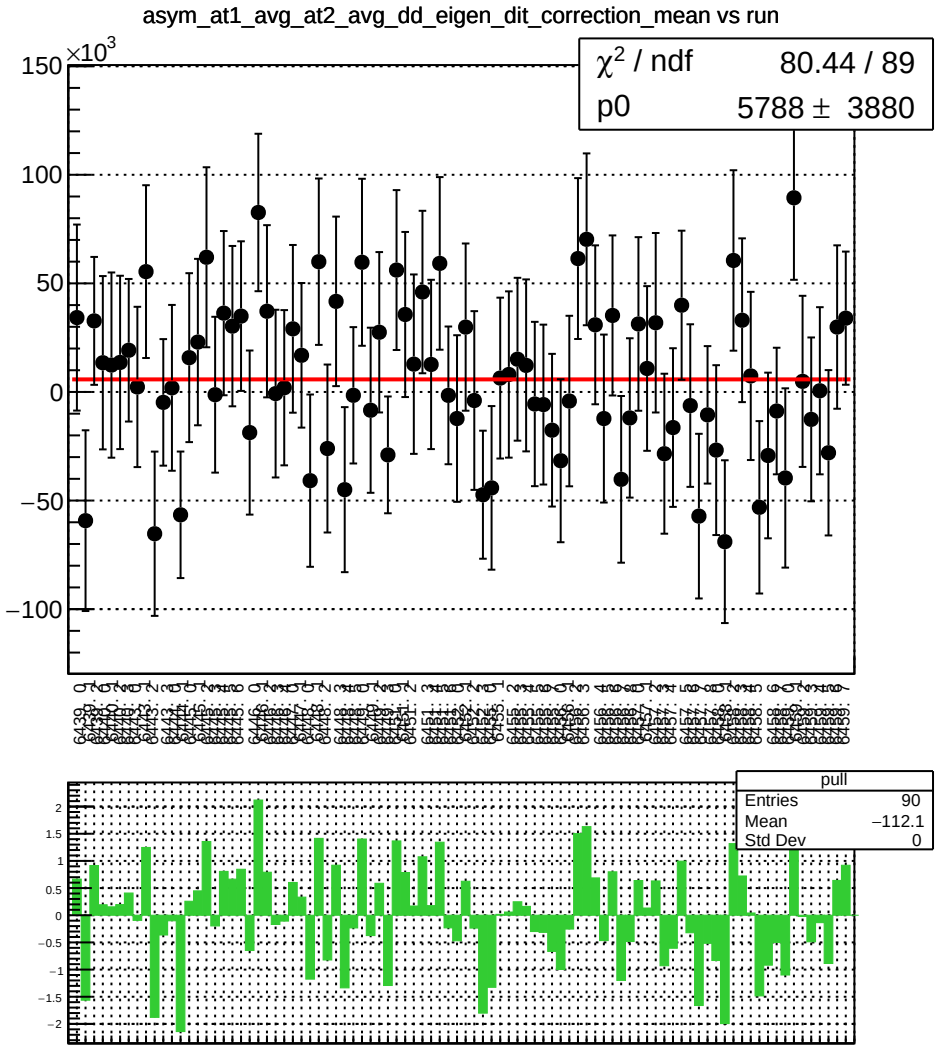

pull1D
Entries 90
Mean 0.01763
Std Dev 0.9452

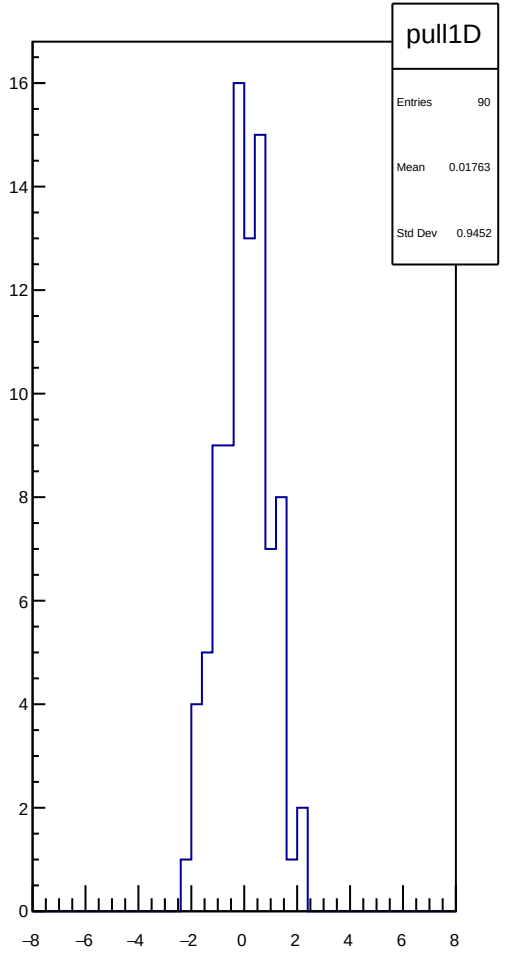

asym_at1_avg_at2_avg_dd_dit_correction_rms vs run
χ² / ndf 2610 / 89
p0 3660 ± 2.744
4000
3800
3600
3400
3200

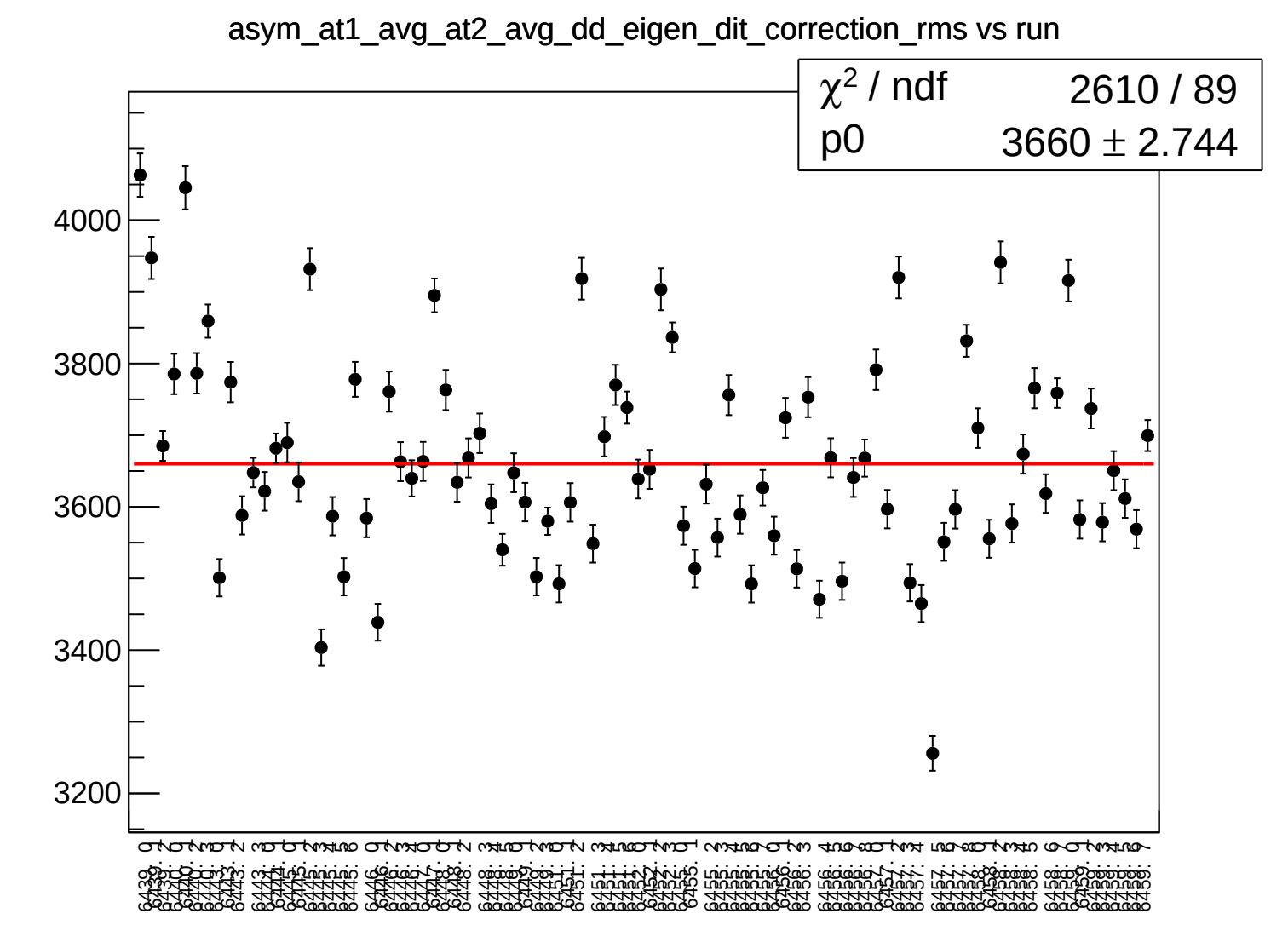

eigen_dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 62.69 / 89
p0 −1463 ± 1395
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −46.55
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

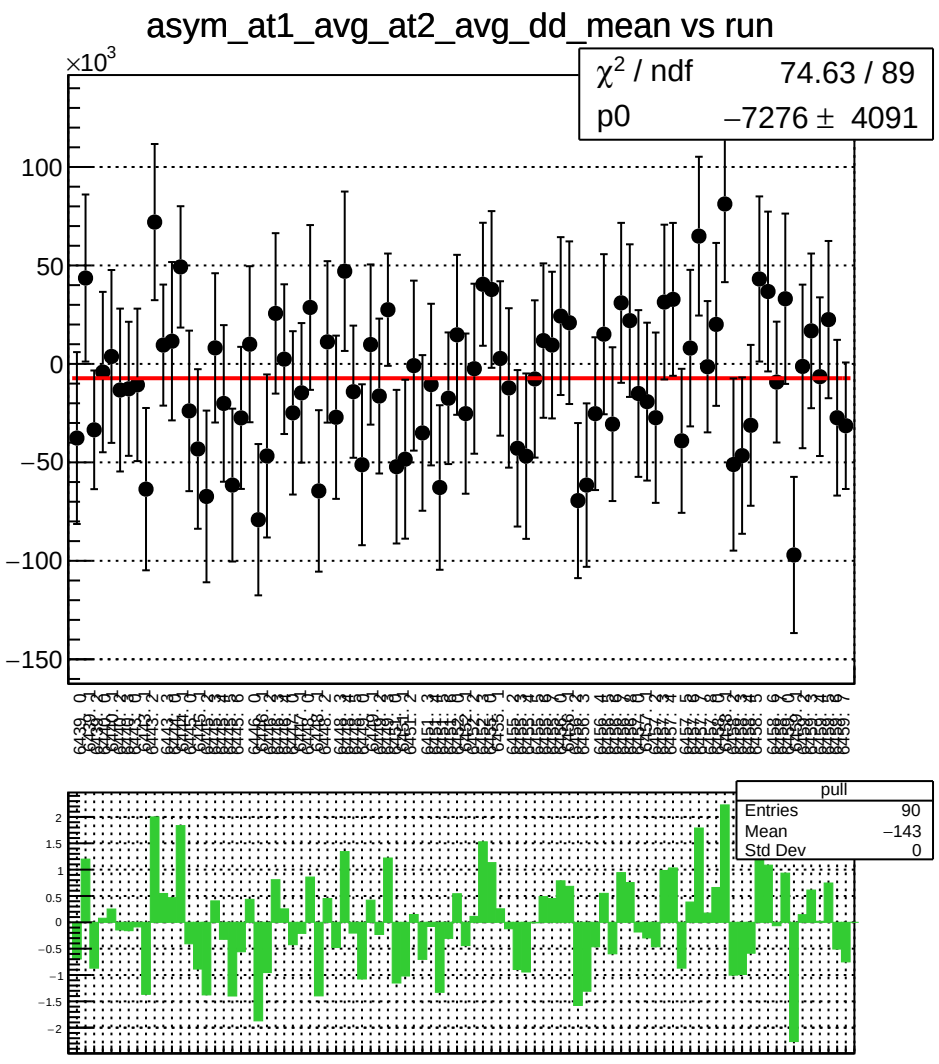

pull1D
Entries 90
Mean 0.01284
Std Dev 0.8345
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

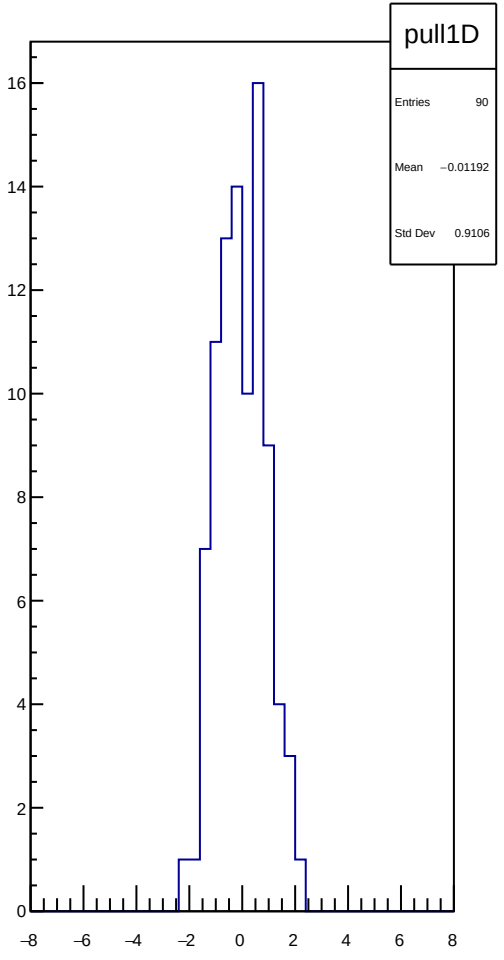

eigen_dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 253.4 / 89
p0 1316 ± 0.9861
1400
1380
1360
1340
1320
1300
1280

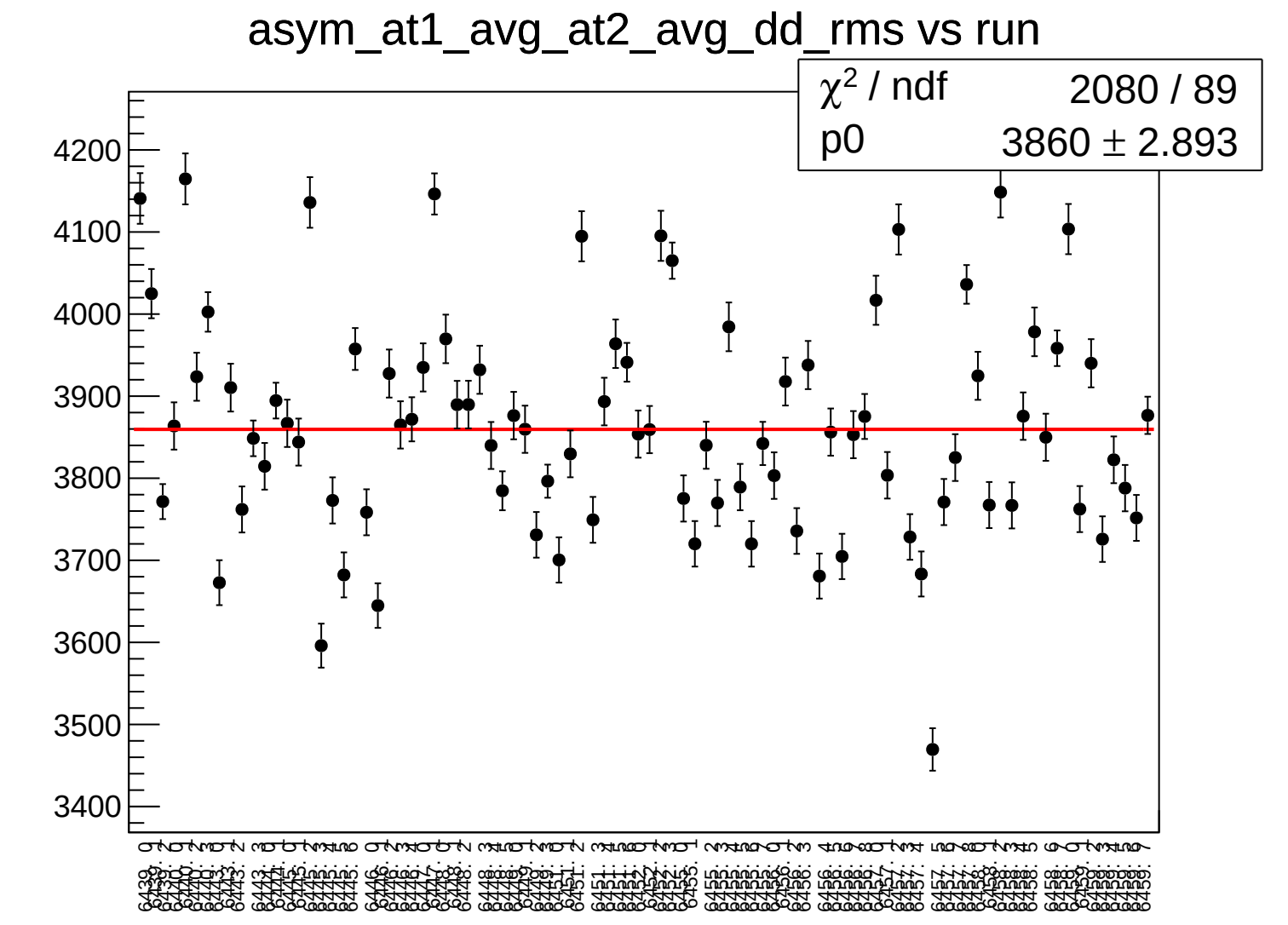

asym_at1_avg_at2_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 80.44 / 89
p0 5788 ± 3880
×10³
150
100
50
0
−50
−100
pull
Entries 90
Mean −112.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

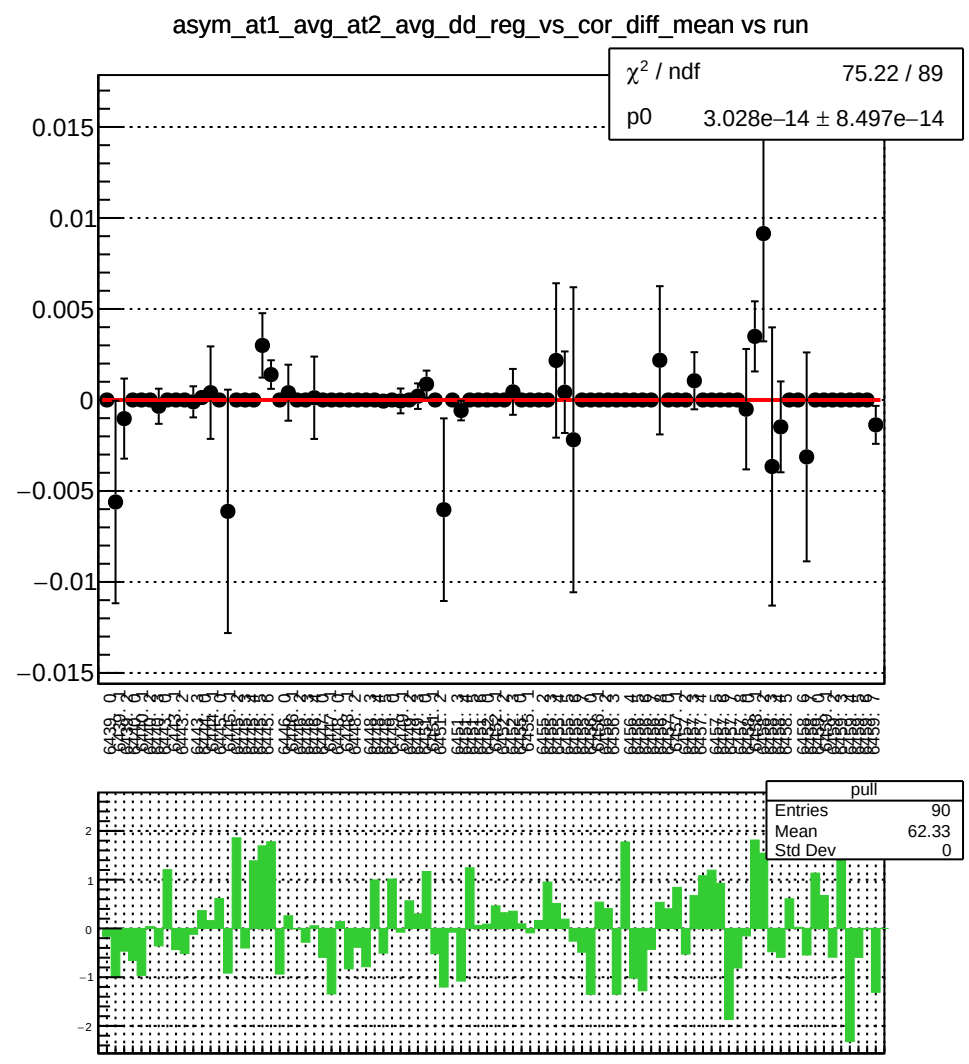

pull1D
Entries 90
Mean 0.01763
Std Dev 0.9452
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

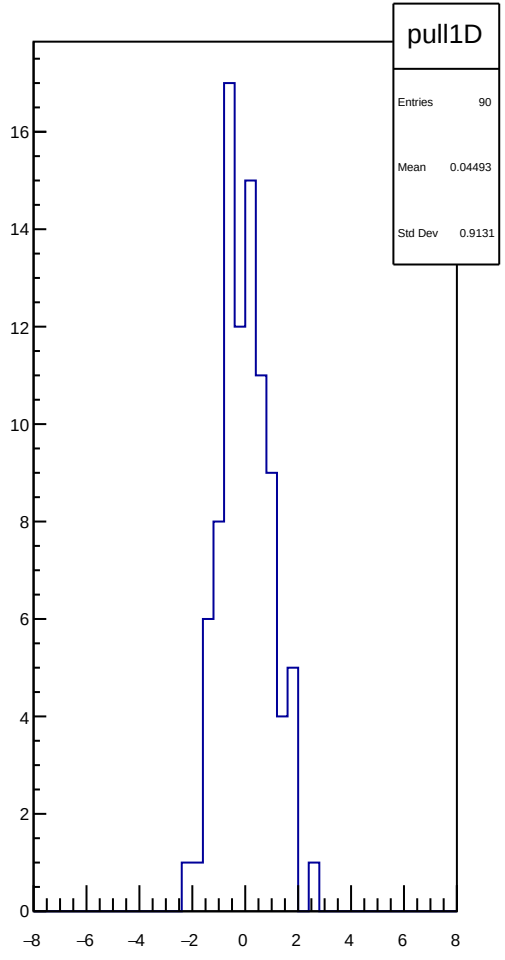

asym_at1_avg_at2_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 2610 / 89
p0 3660 ± 2.744
4000
3800
3600
3400
3200

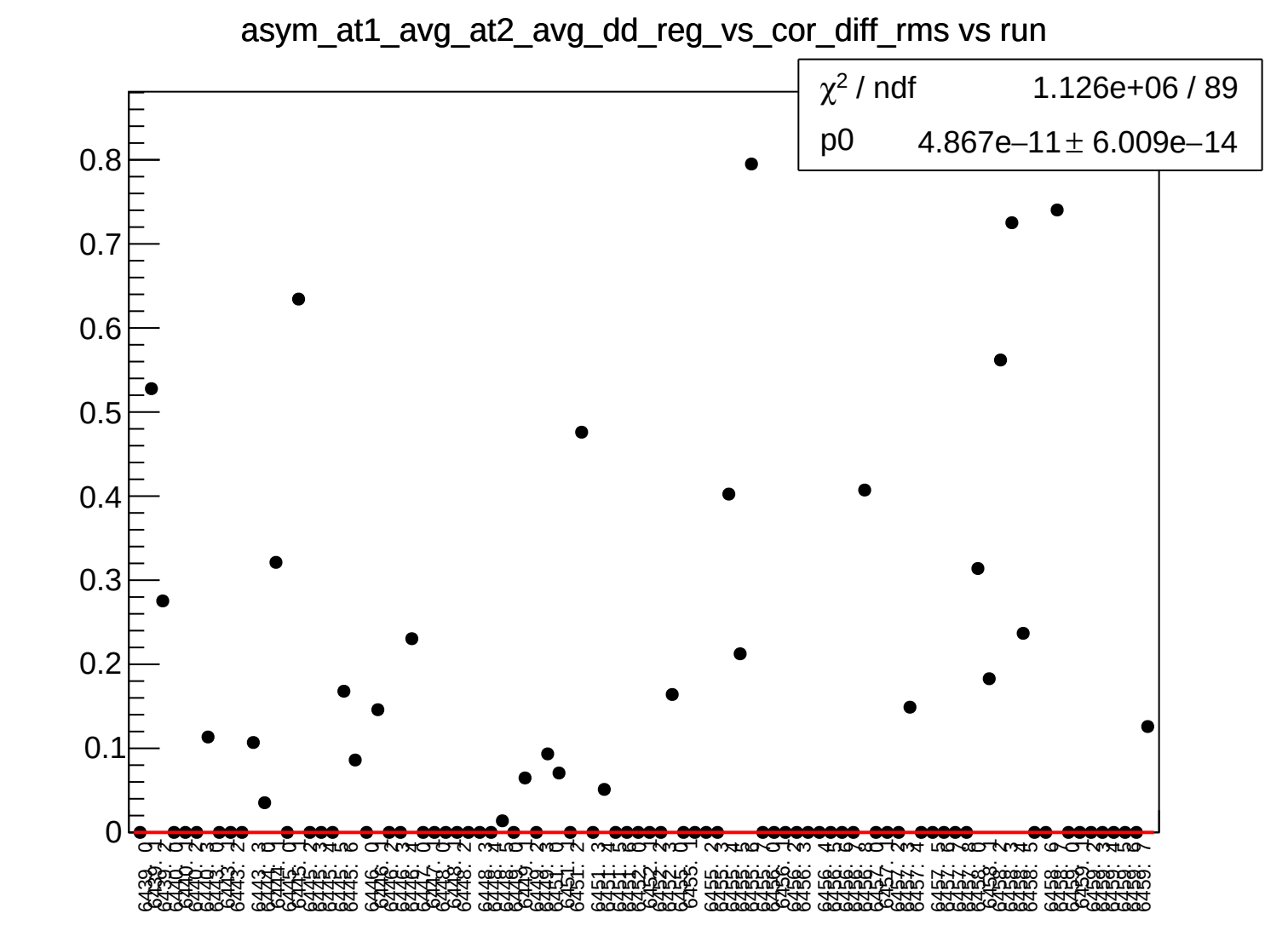

asym_at1_avg_at2_avg_dd_mean vs run
×10^3
χ² / ndf 74.63 / 89
p0 −7276 ± 4091
100
50
0
−50
−100
−150
pull
Entries 90
Mean −143
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

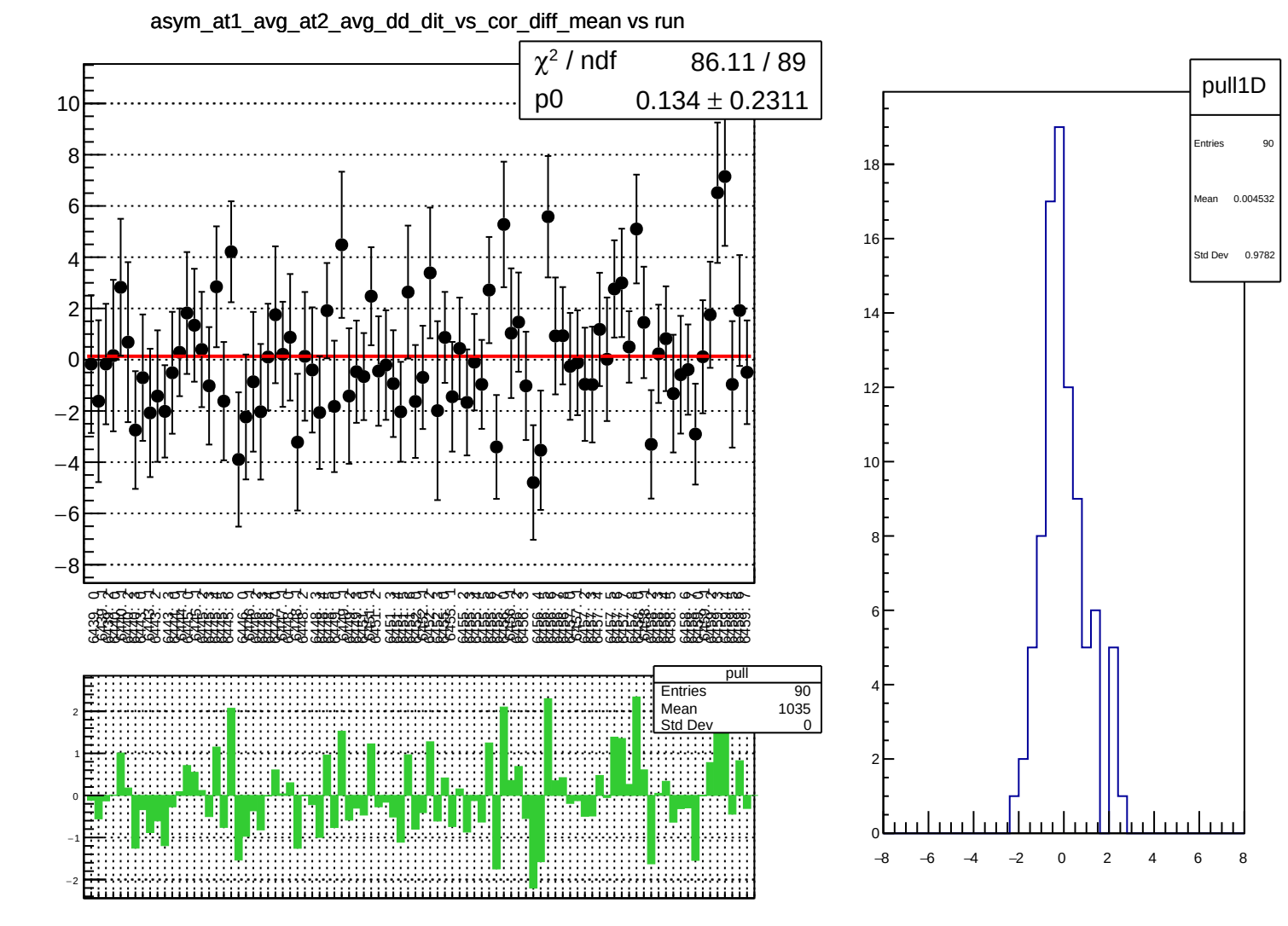

pull1D
Entries 90
Mean −0.01192
Std Dev 0.9106
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

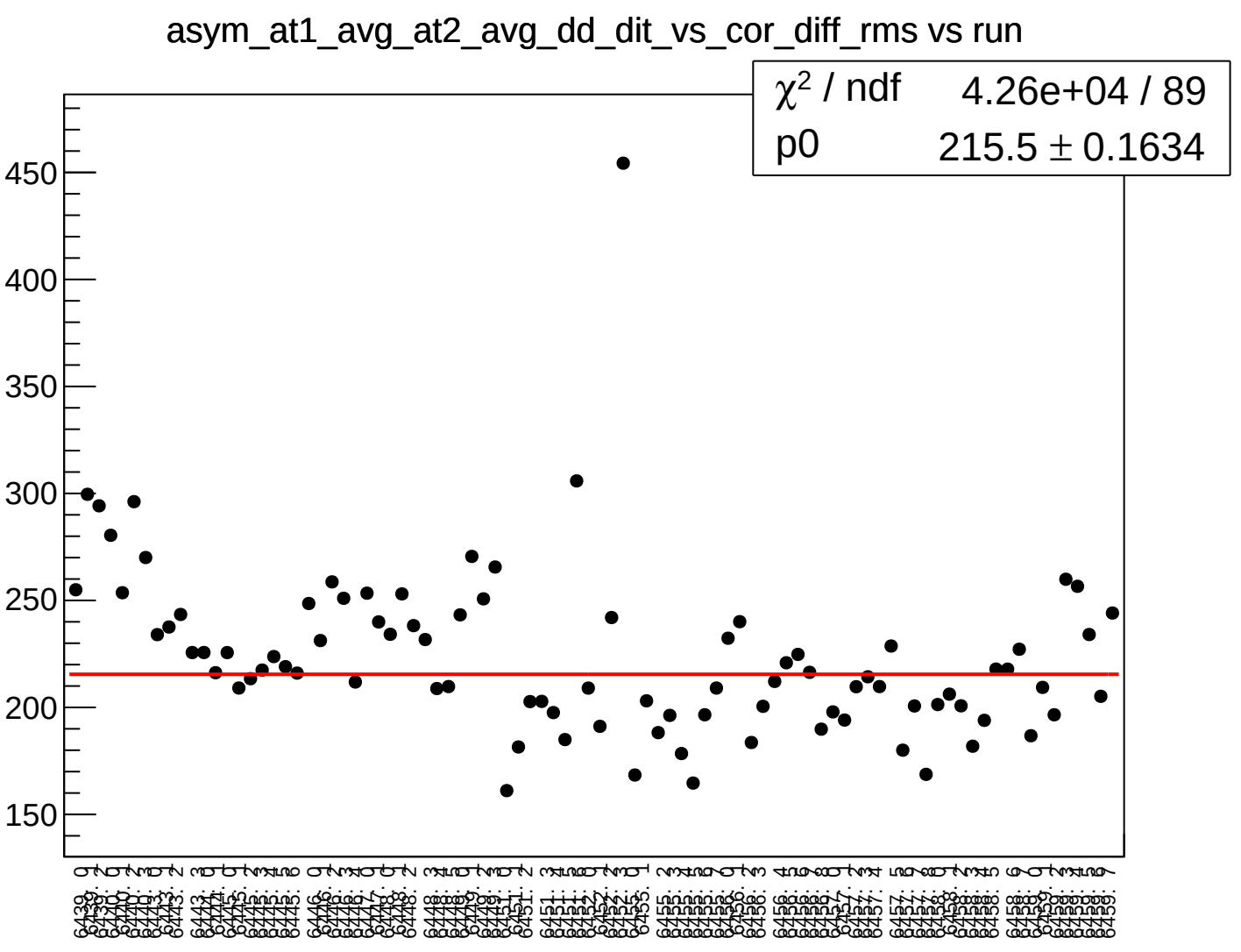

asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 2080 / 89
p0 3860 ± 2.893
4200
4100
4000
3900
3800
3700
3600
3500
3400

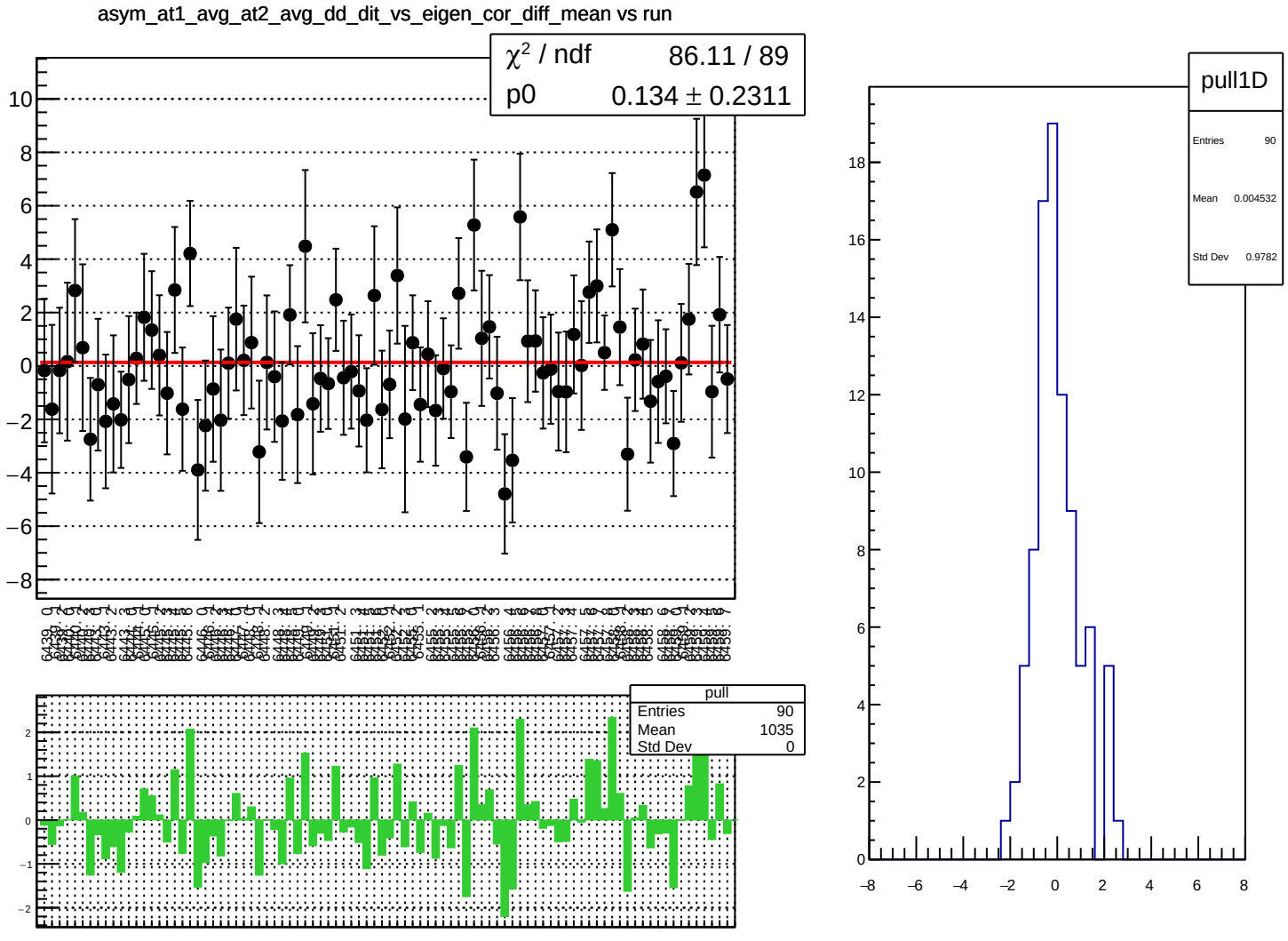

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 75.22 / 89
p0 3.028e−14 ± 8.497e−14
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 90
Mean 62.33
Std Dev 0
2
1
0
−1
−2

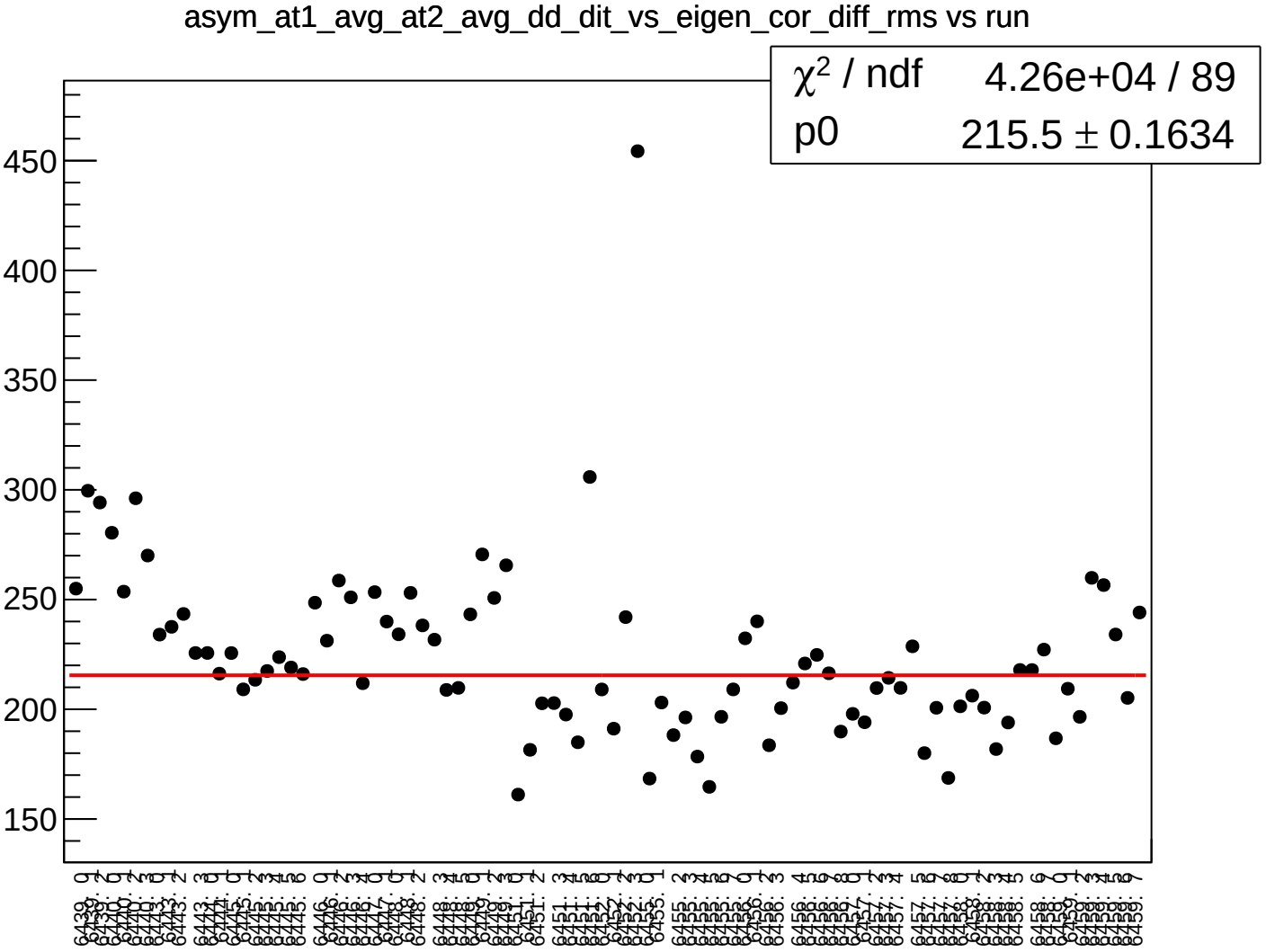

pull1D
Entries 90
Mean 0.04493
Std Dev 0.9131
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

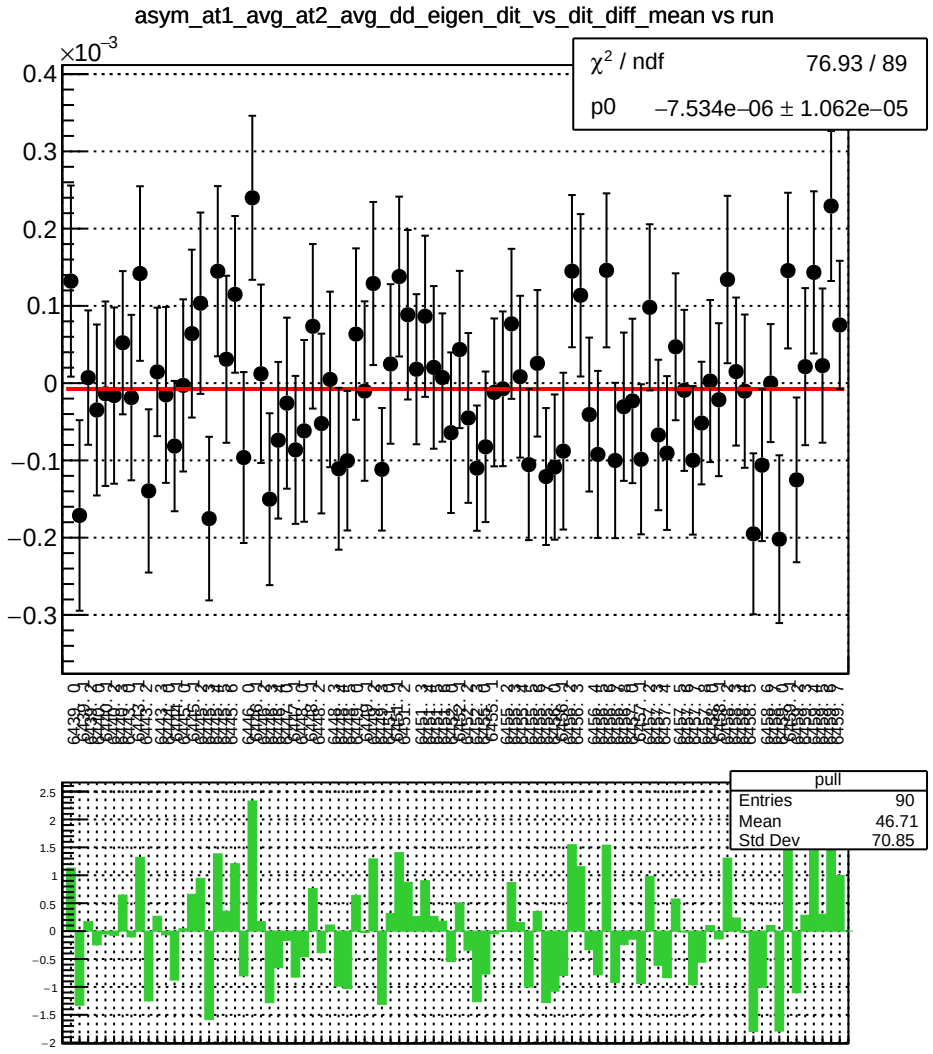

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.126e+06 / 89
p0 4.867e−11 ± 6.009e−14
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8

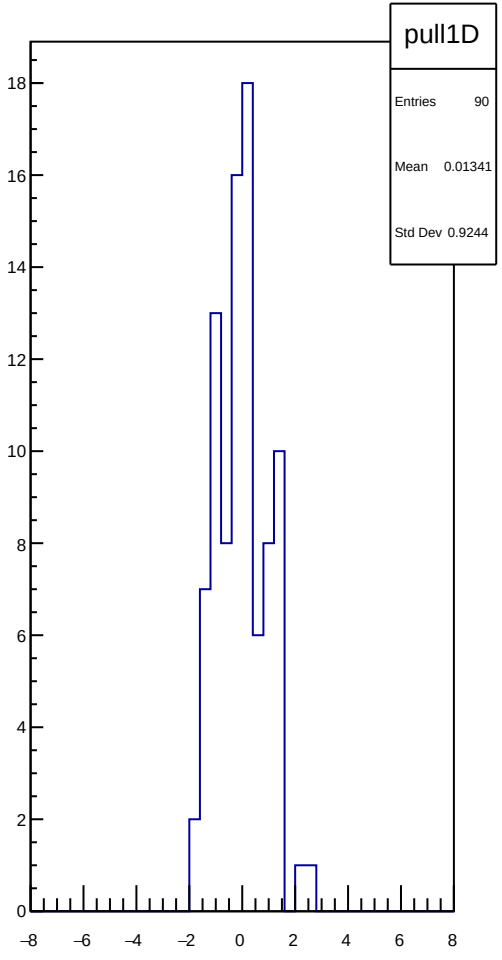

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 86.11 / 89
p0 0.134 ± 0.2311
pull
Entries 90
Mean 1035
Std Dev 0
pull1D
Entries 90
Mean 0.004532
Std Dev 0.9782

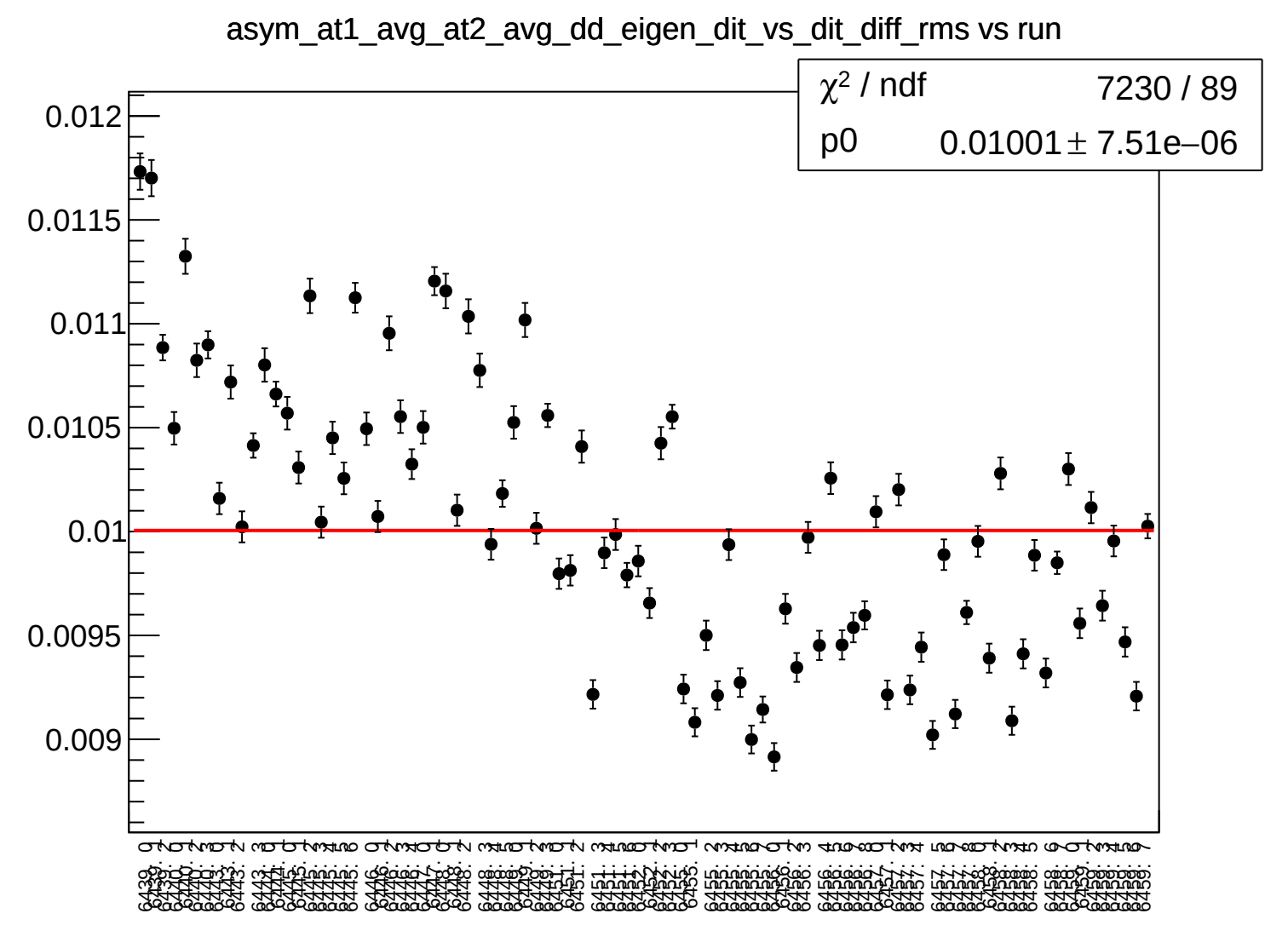

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.26e+04 / 89
p0 215.5 ± 0.1634
450
400
350
300
250
200
150

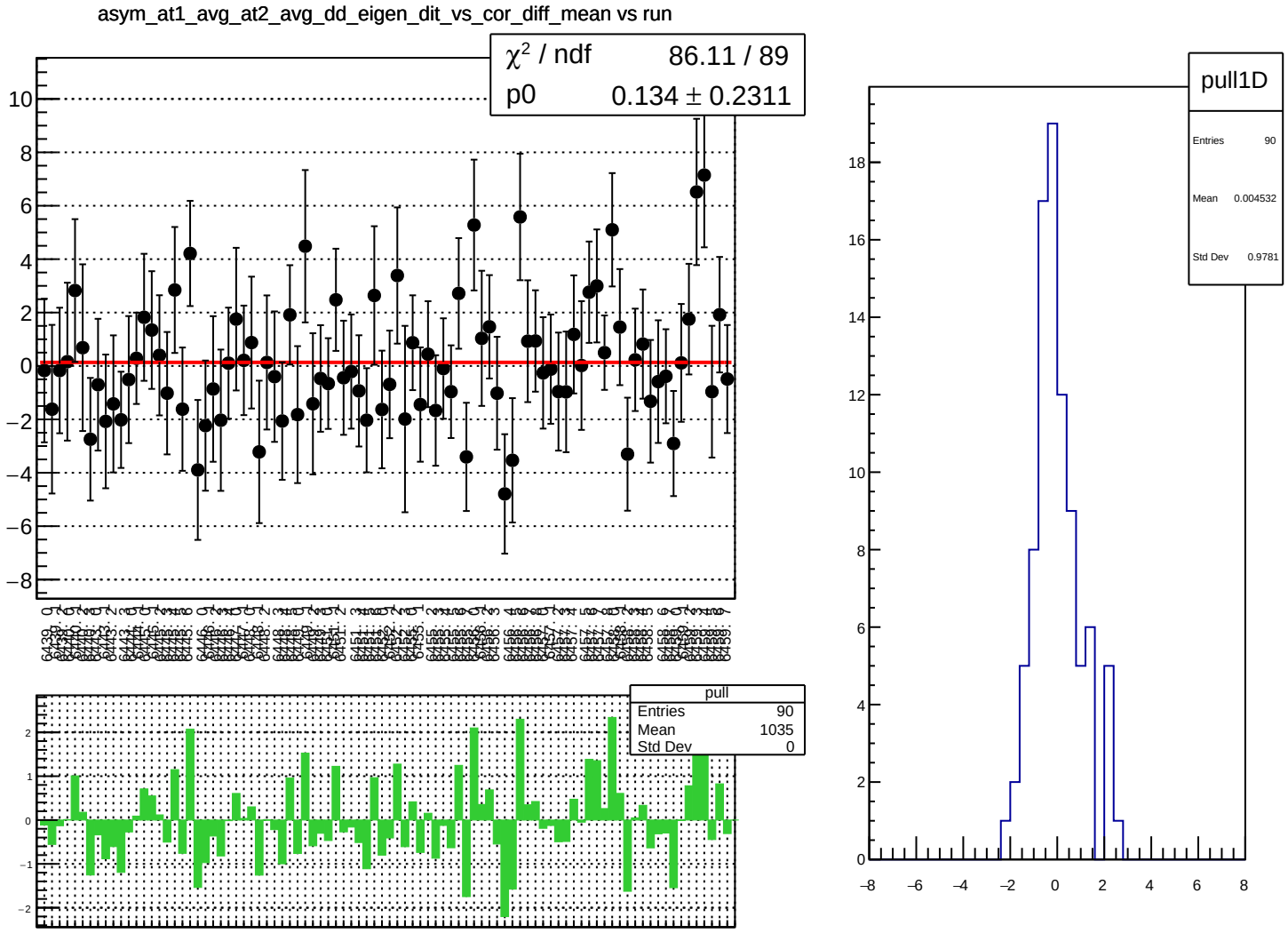

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.11 / 89
p0 0.134 ± 0.2311
pull
Entries 90
Mean 1035
Std Dev 0
pull1D
Entries 90
Mean 0.004532
Std Dev 0.9782

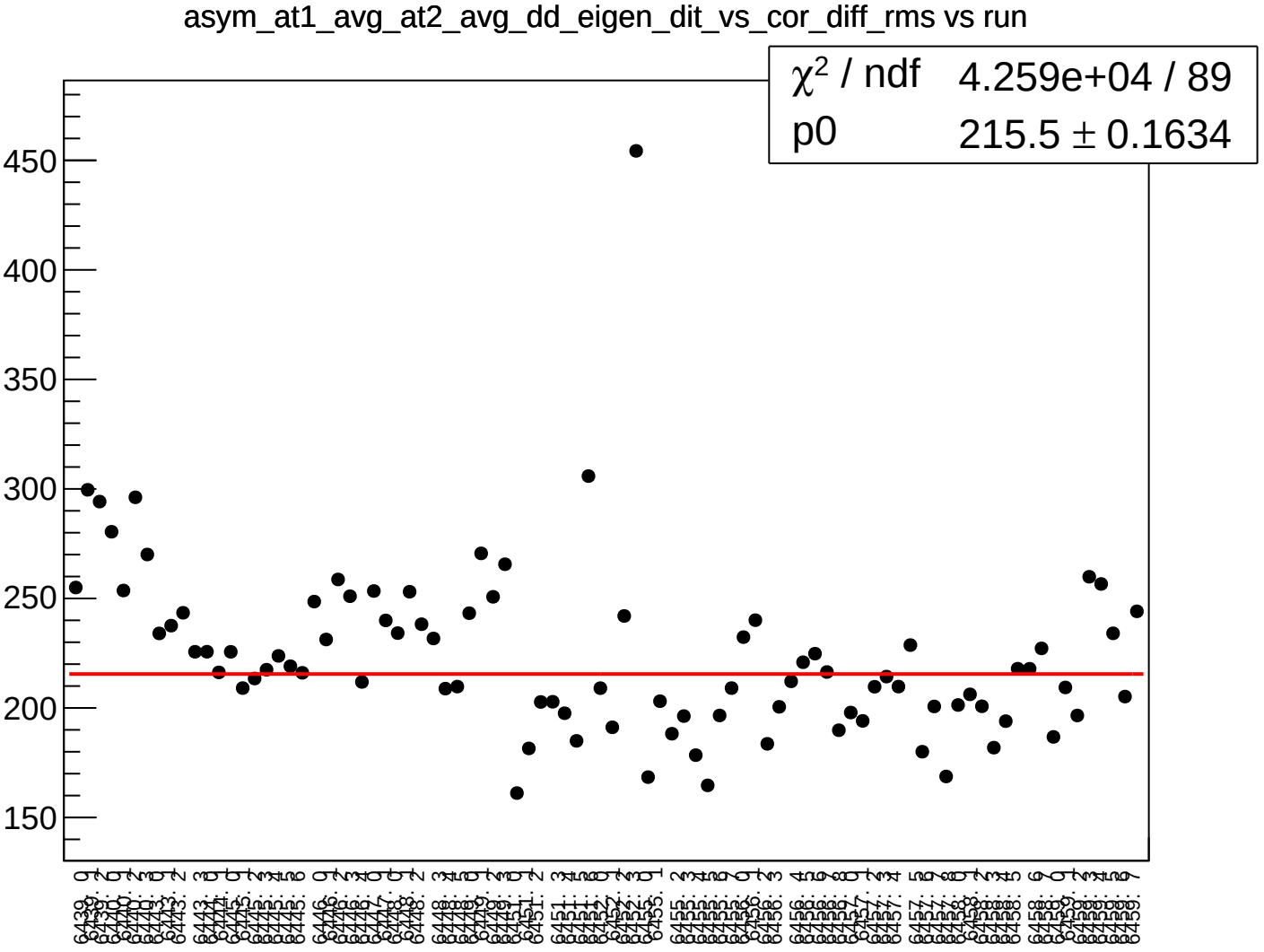

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.26e+04 / 89
p0 215.5 ± 0.1634
450
400
350
300
250
200
150

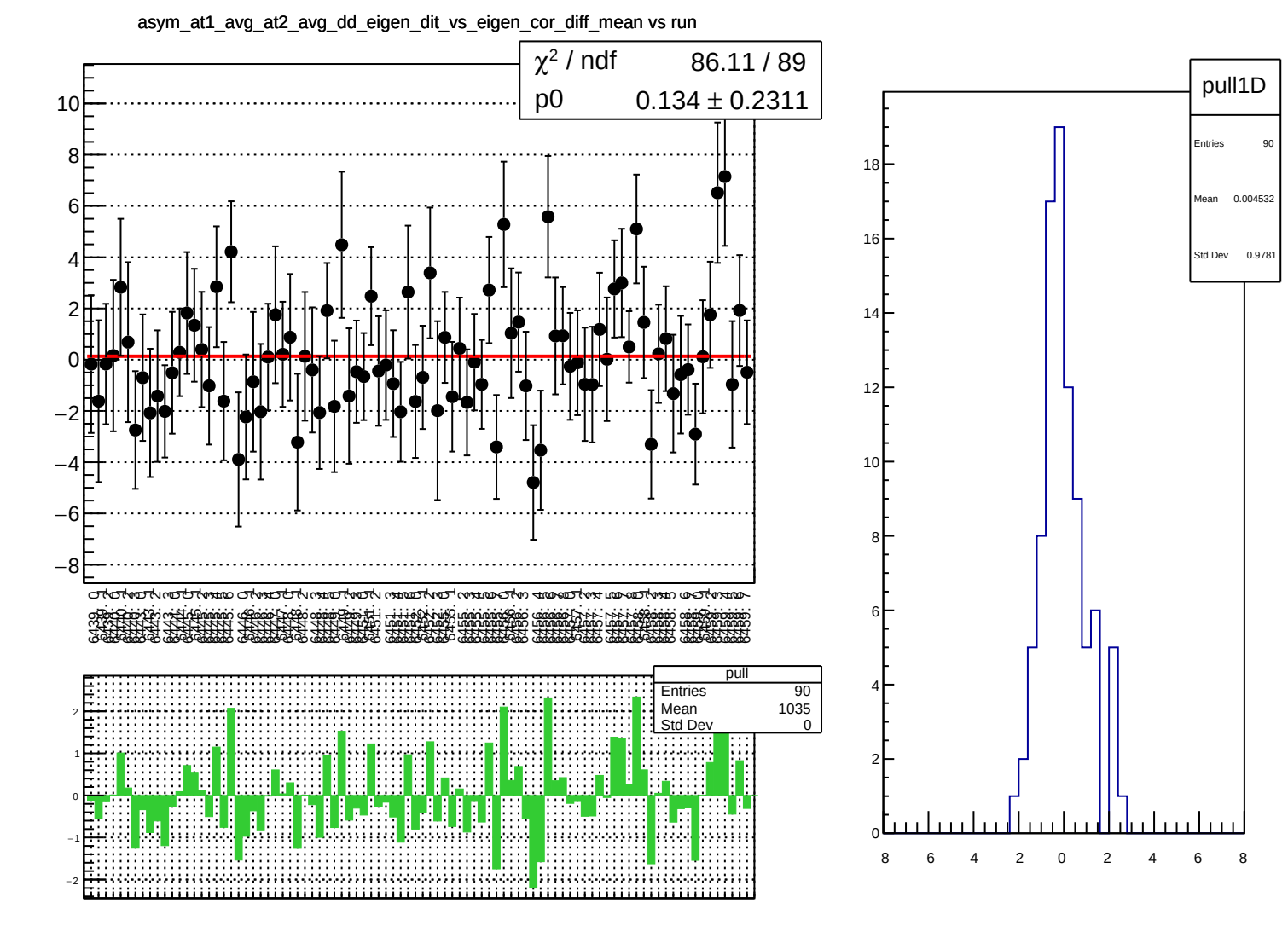

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 76.93 / 89
p0 −7.534e−06 ± 1.062e−05
pull
Entries 90
Mean 46.71
Std Dev 70.85

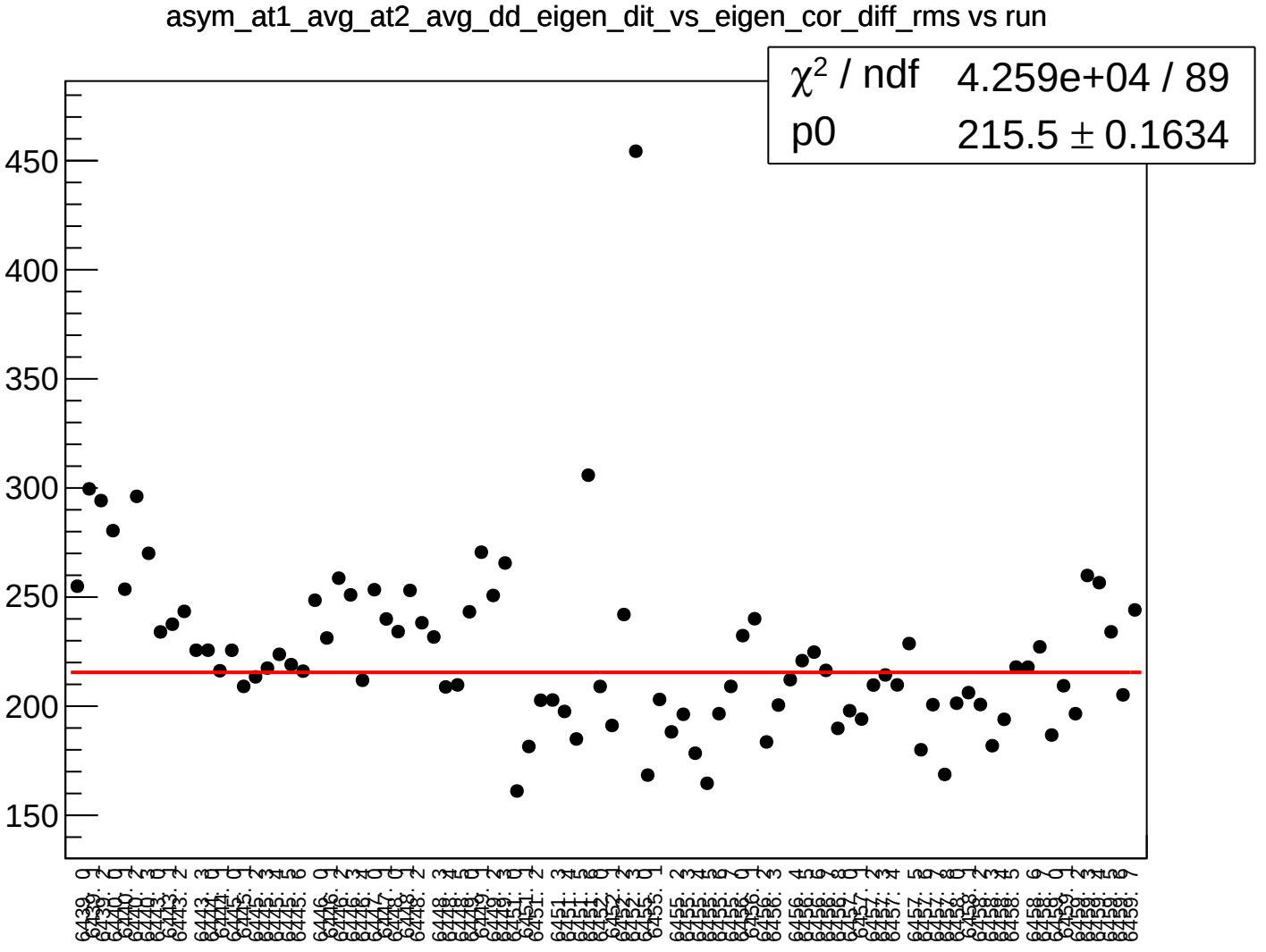

pull1D
Entries 90
Mean 0.01341
Std Dev 0.9244

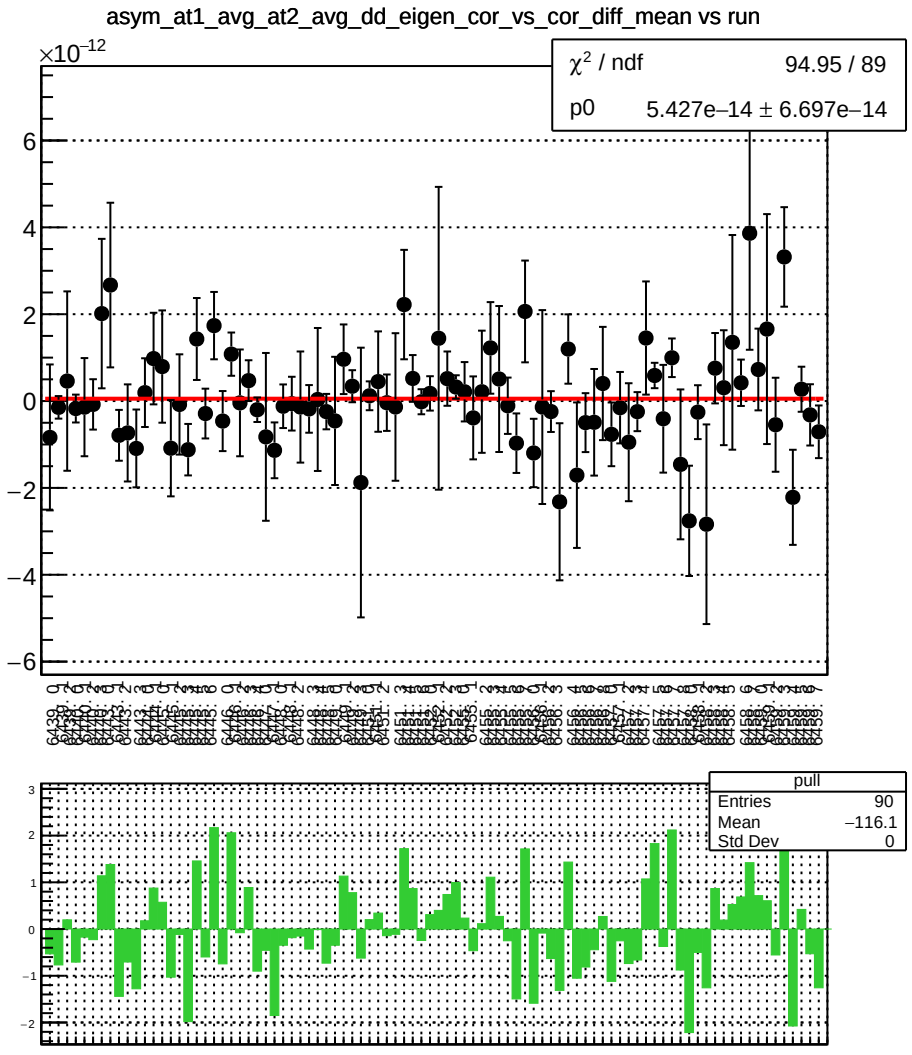

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7230 / 89
p0 0.01001 ± 7.51e−06
0.012
0.0115
0.011
0.0105
0.01
0.0095
0.009

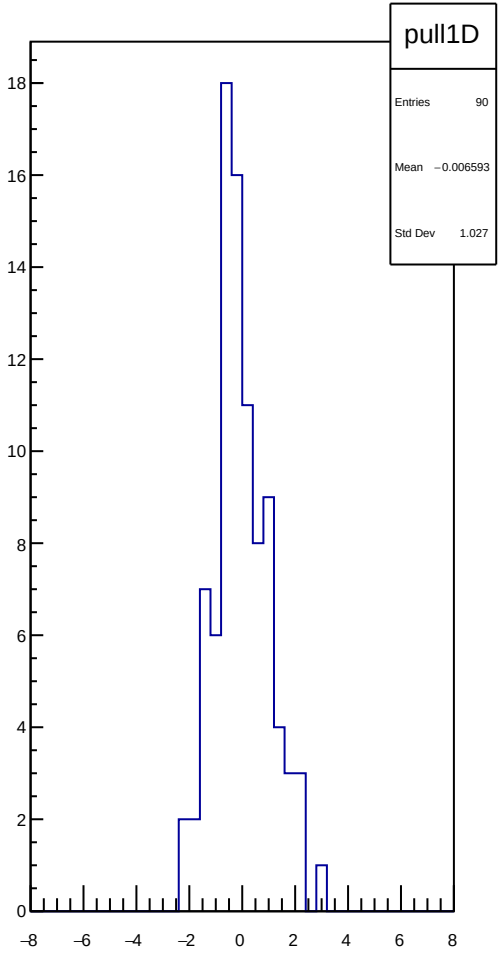

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.11 / 89
p0 0.134 ± 0.2311
pull
Entries 90
Mean 1035
Std Dev 0
pull1D
Entries 90
Mean 0.004532
Std Dev 0.9781

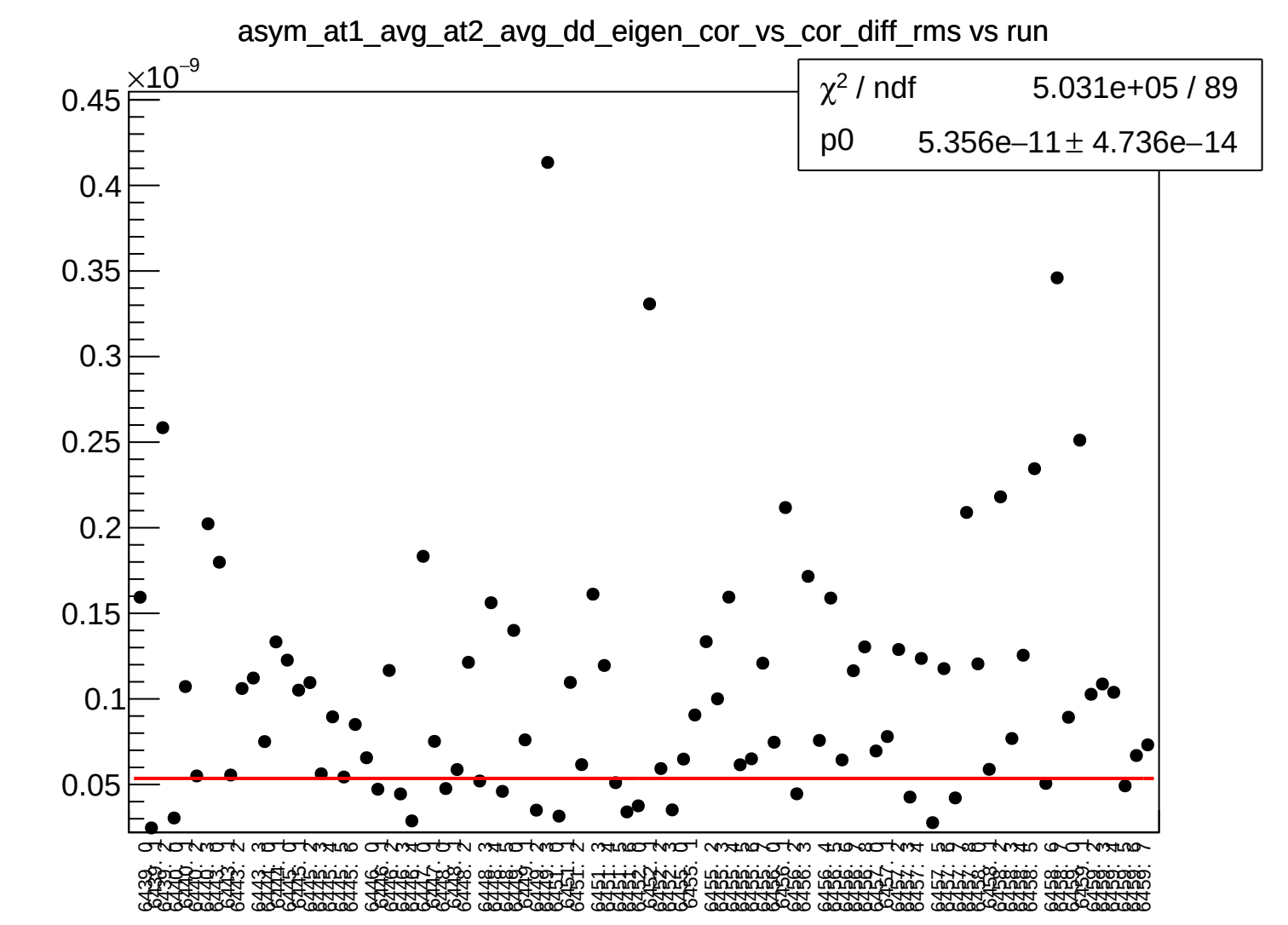

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.259e+04 / 89
p0 215.5 ± 0.1634
450
400
350
300
250
200
150

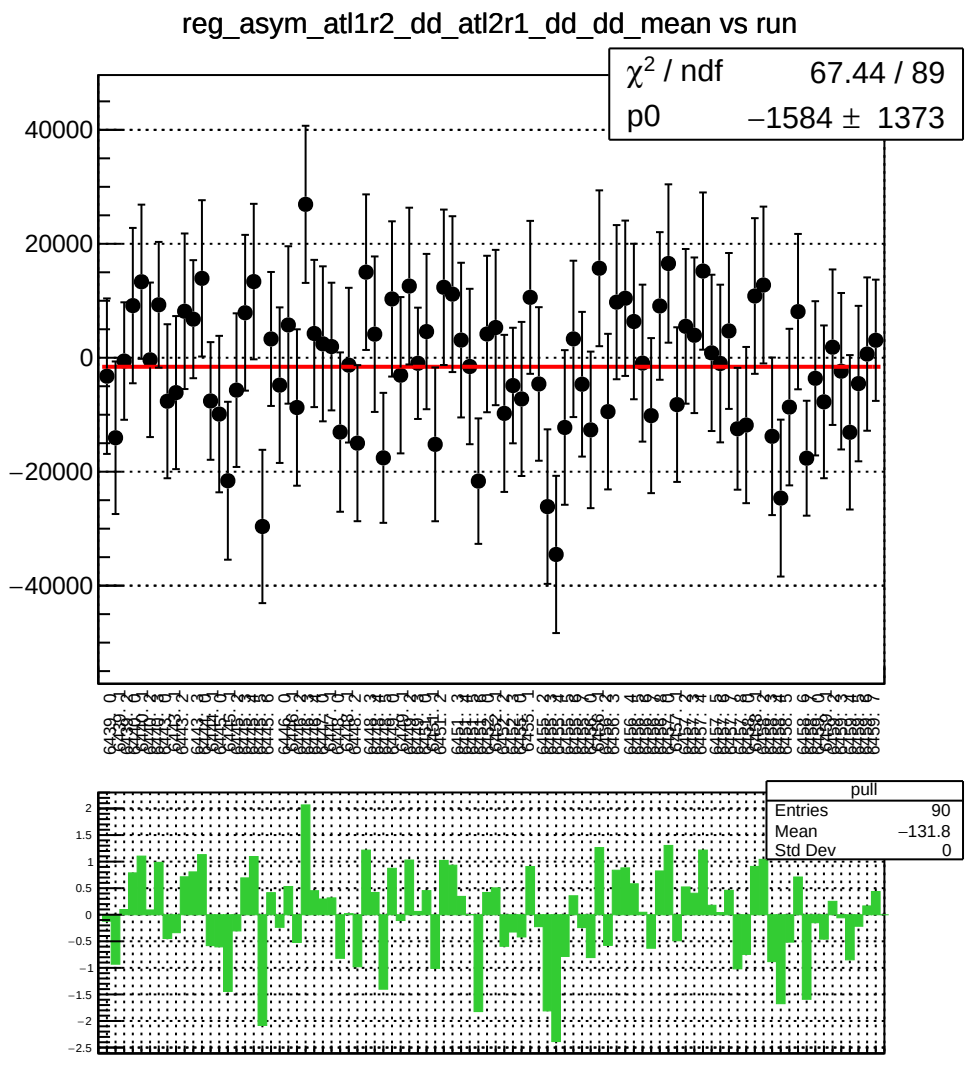

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.11 / 89
p0 0.134 ± 0.2311
pull
Entries 90
Mean 1035
Std Dev 0
pull1D
Entries 90
Mean 0.004532
Std Dev 0.9781

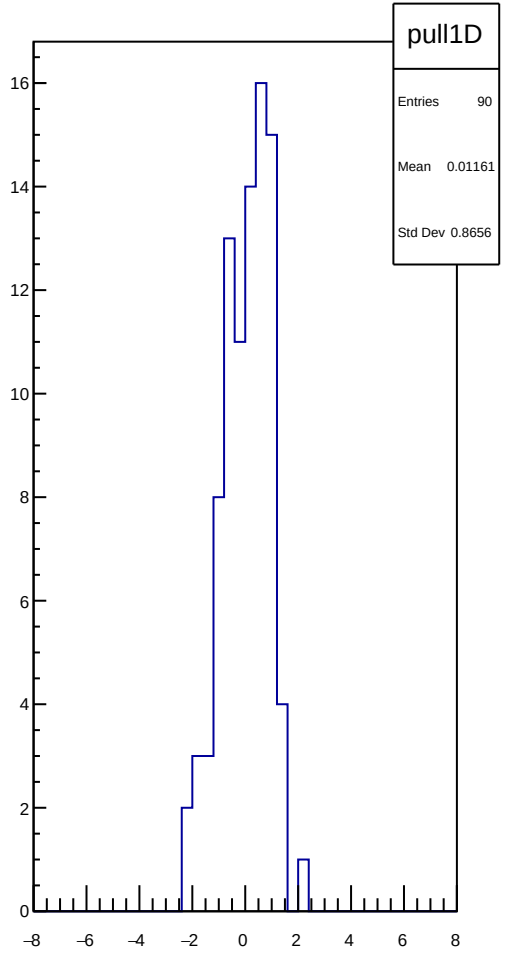

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.259e+04 / 89
p0 215.5 ± 0.1634
450
400
350
300
250
200
150

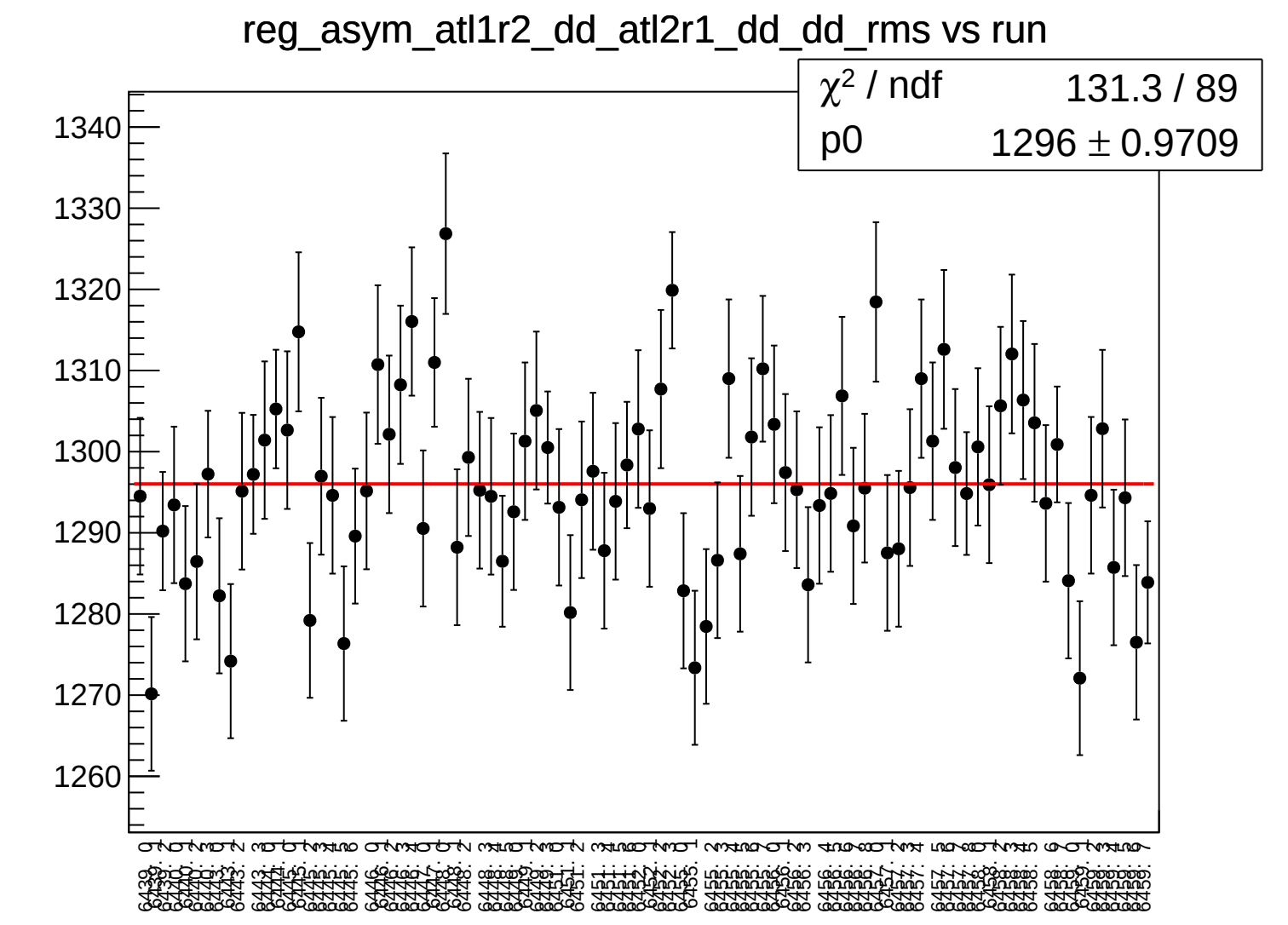

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.95 / 89
p0 5.427e−14 ± 6.697e−14
pull
Entries 90
Mean −116.1
Std Dev 0

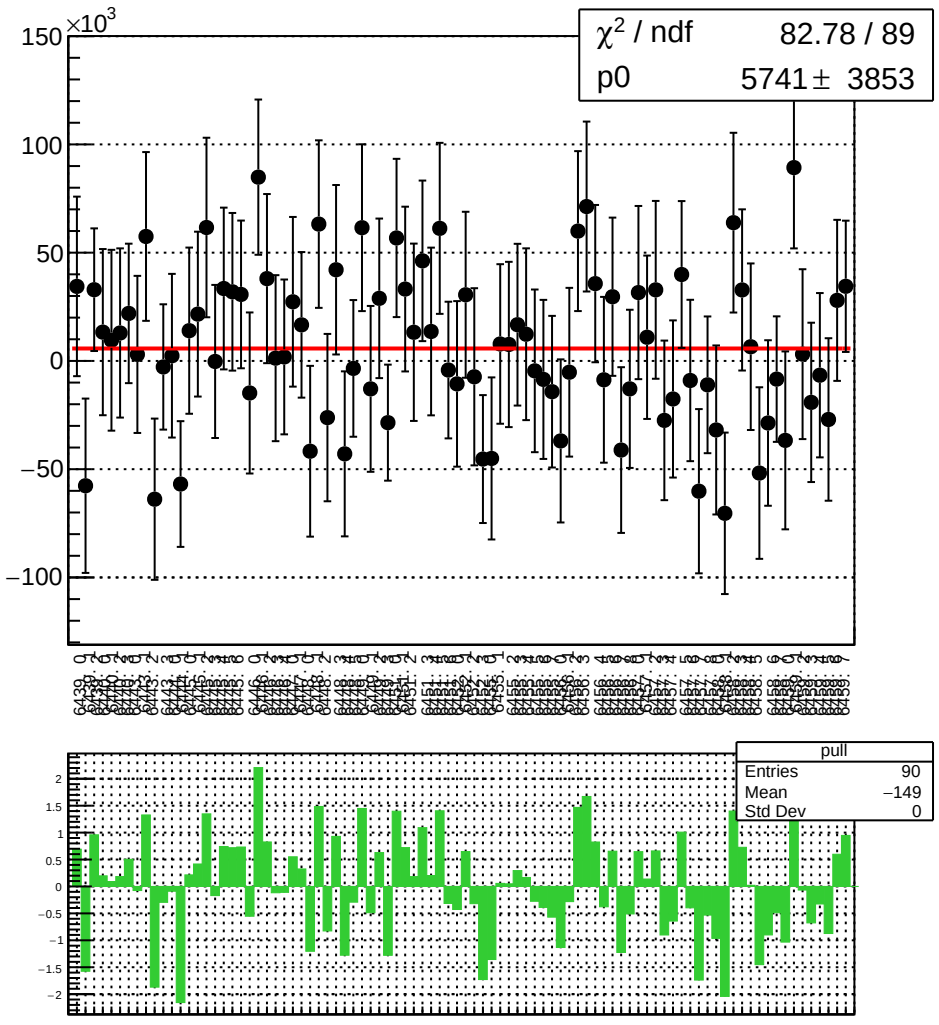

pull1D
Entries 90
Mean −0.006593
Std Dev 1.027

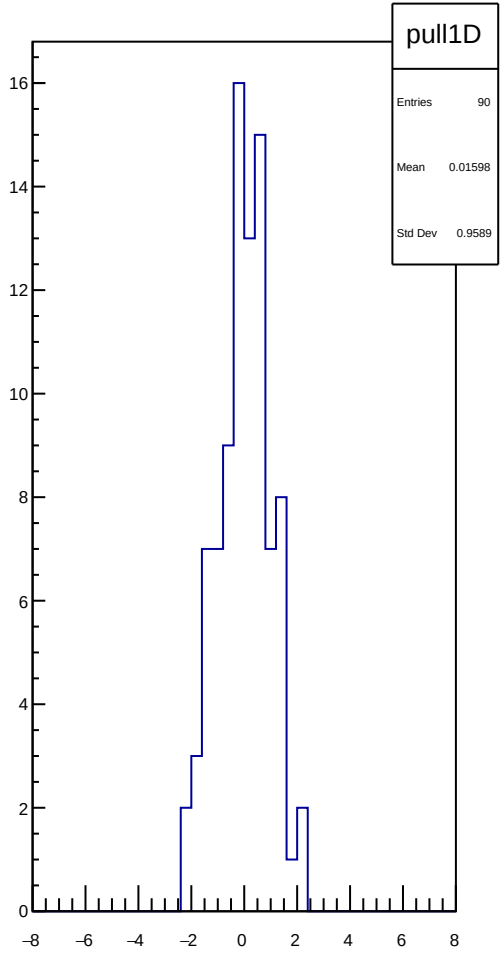

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
χ² / ndf 5.031e+05 / 89
p0 5.356e−11 ± 4.736e−14


reg_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 67.44 / 89
p0 −1584 ± 1373
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −131.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 90
Mean 0.01161
Std Dev 0.8656
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 131.3 / 89
p0 1296 ± 0.9709
1340
1330
1320
1310
1300
1290
1280
1270
1260


asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_mean vs run
×10^3
χ² / ndf 82.78 / 89
p0 5741 ± 3853
150
100
50
0
−50
−100
pull
Entries 90
Mean −149
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 90
Mean 0.01598
Std Dev 0.9589
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10
8
6
4
2
0
−8
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−4
−2
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2
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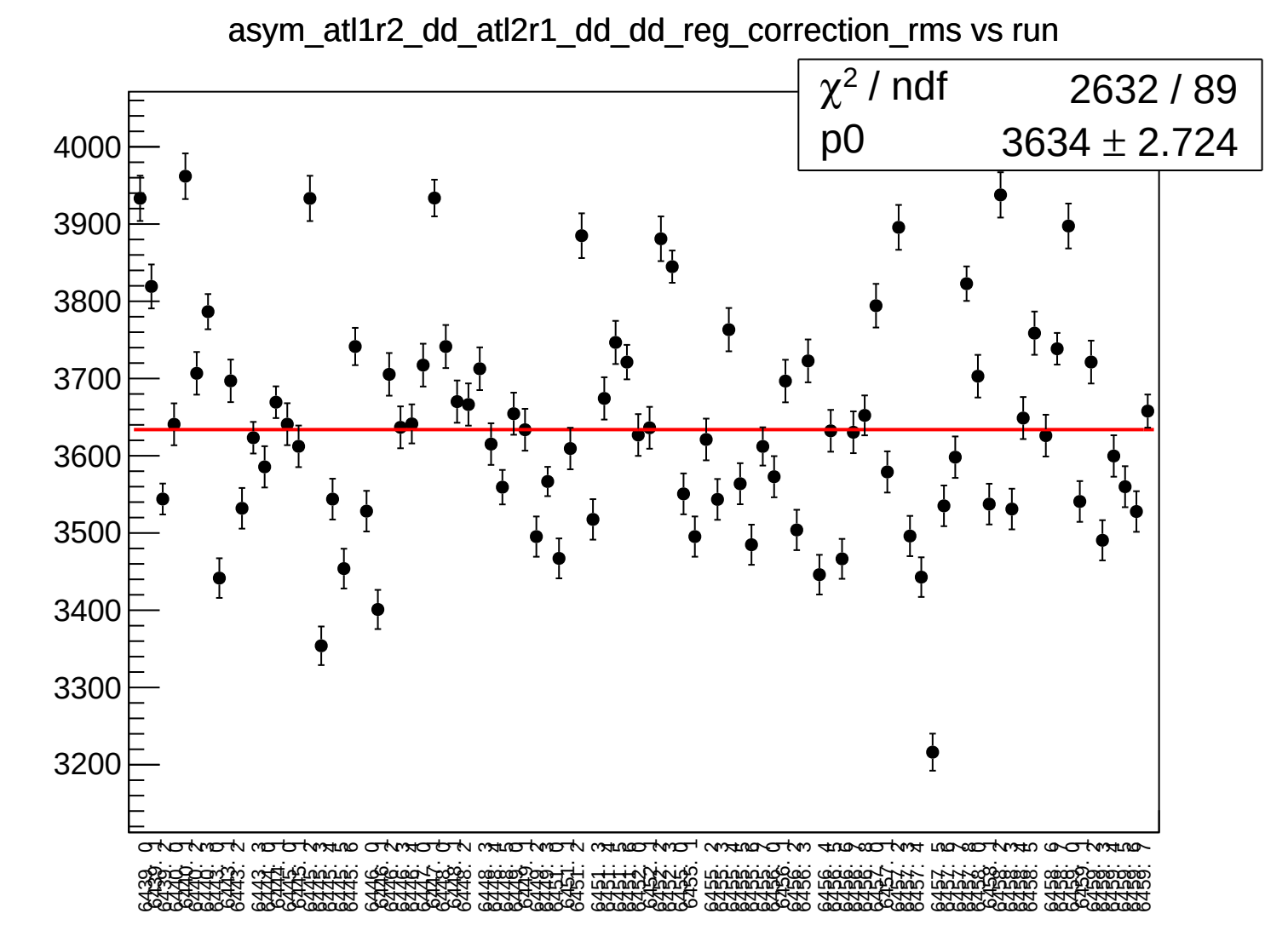
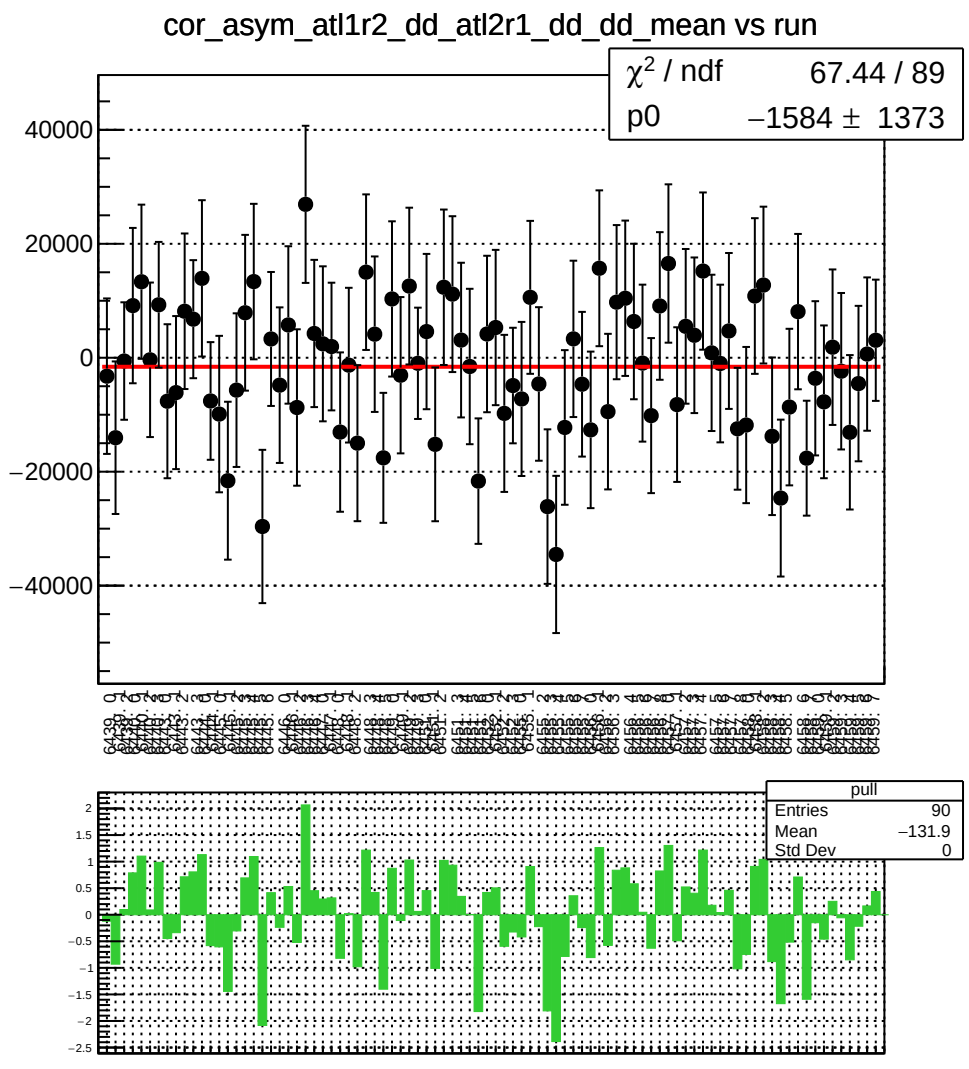
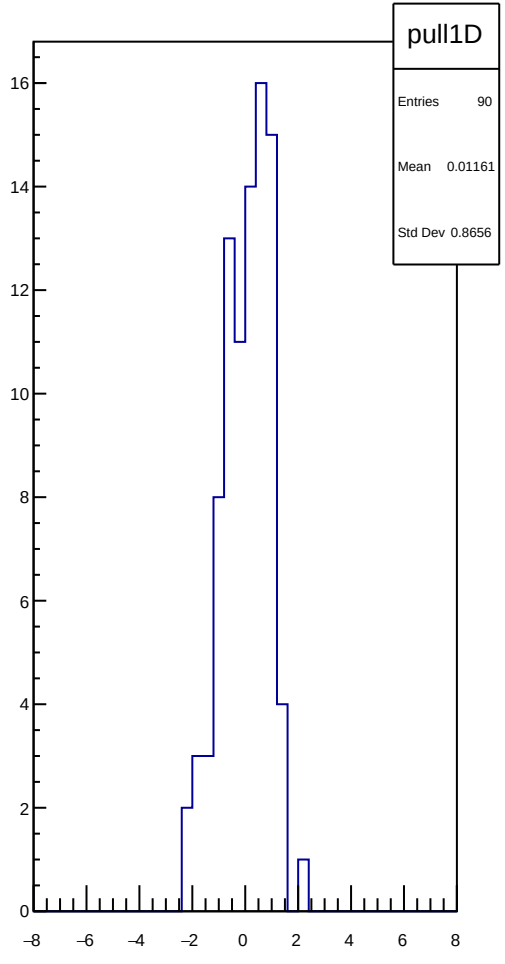
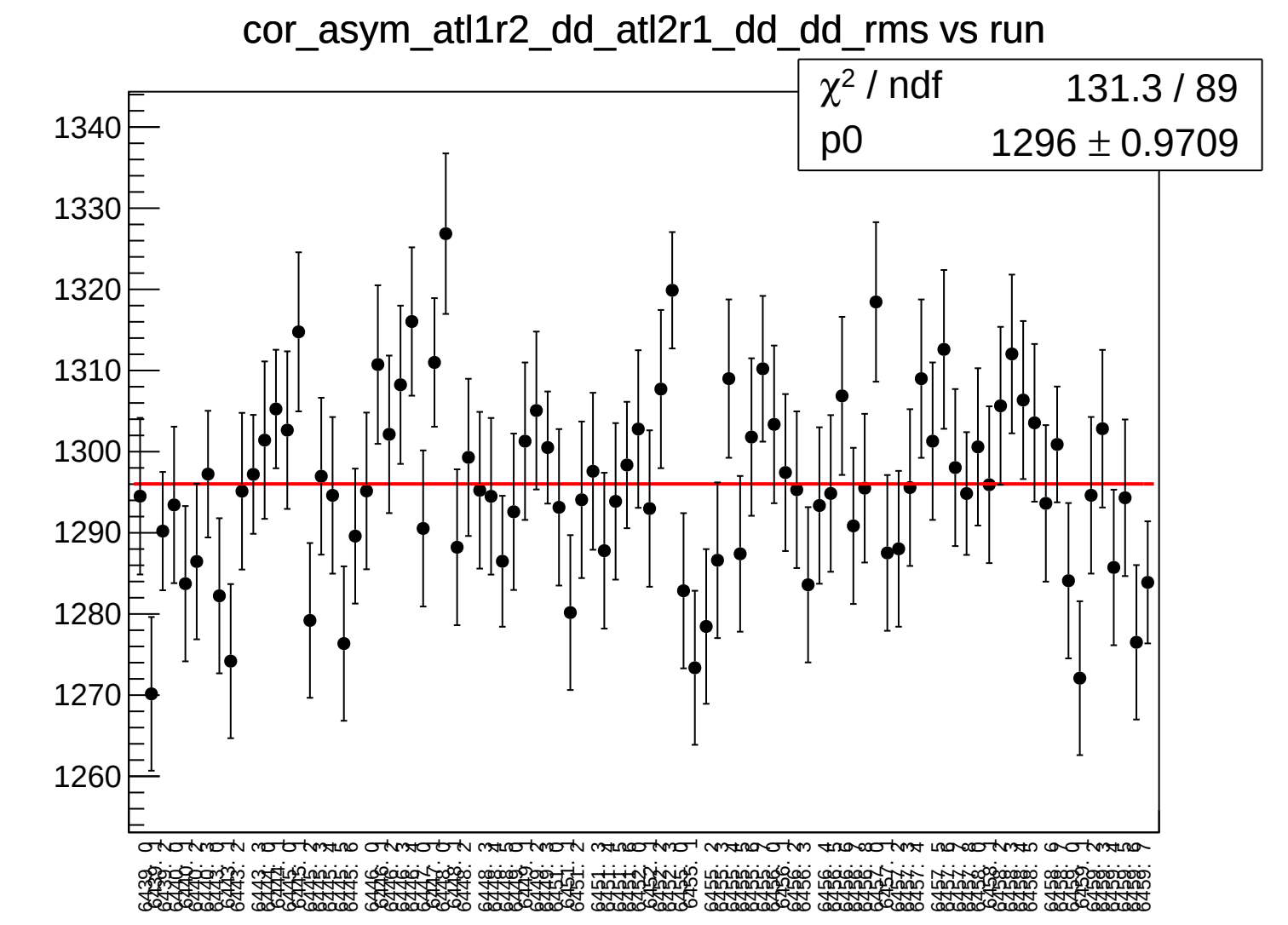
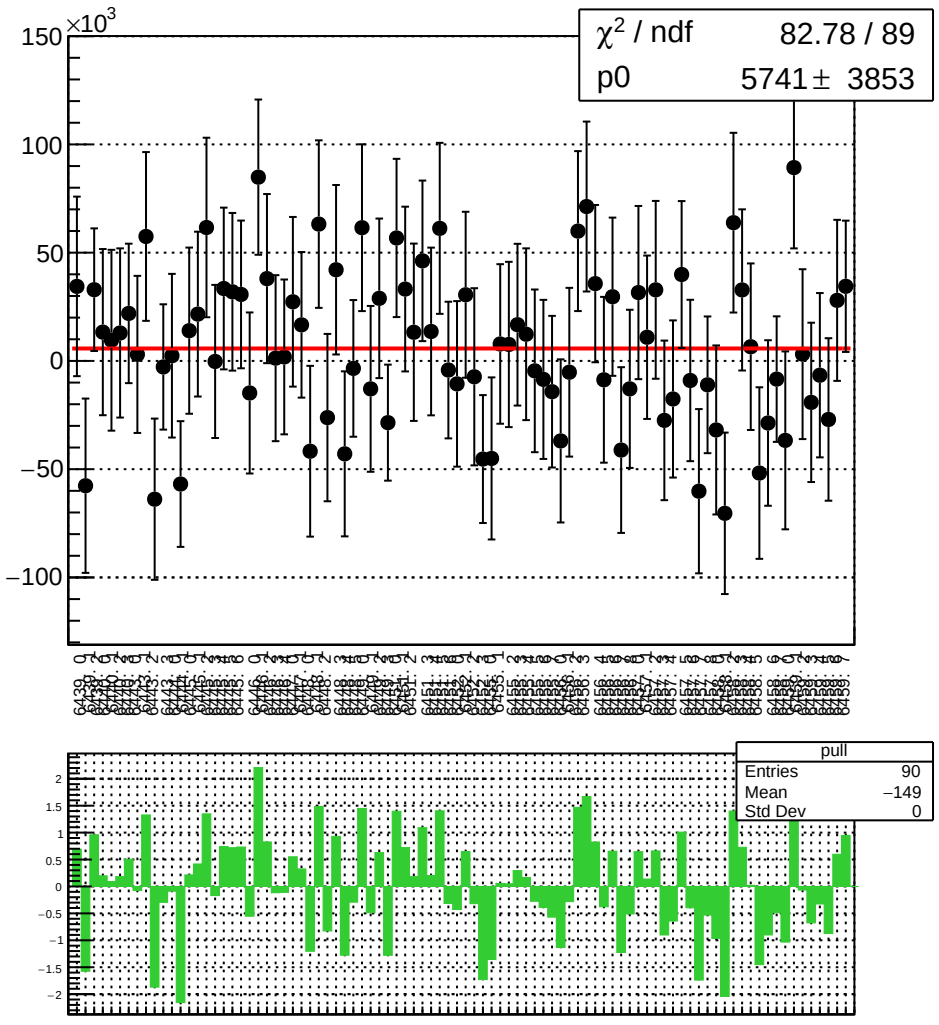
6
8

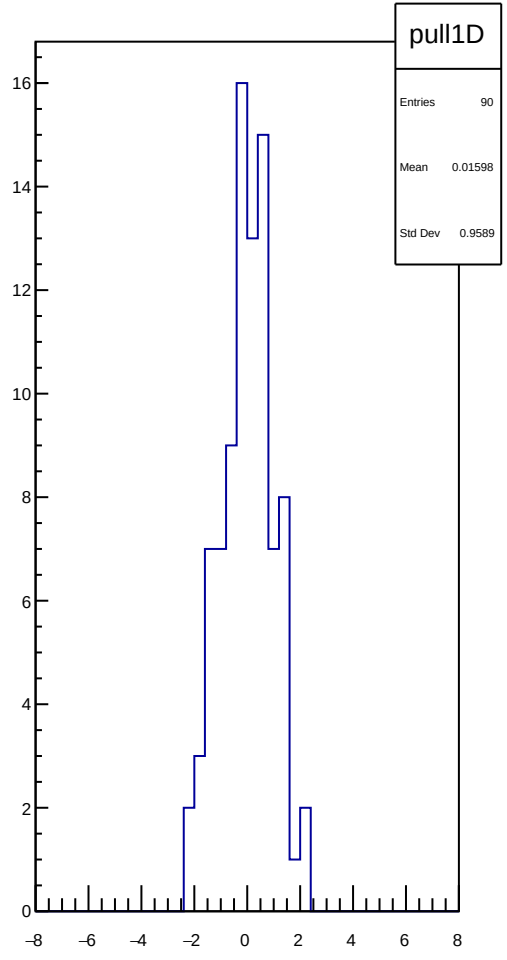

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_rms vs run
χ² / ndf 2632 / 89
p0 3634 ± 2.724
4000
3900
3800
3700
3600
3500
3400
3300
3200

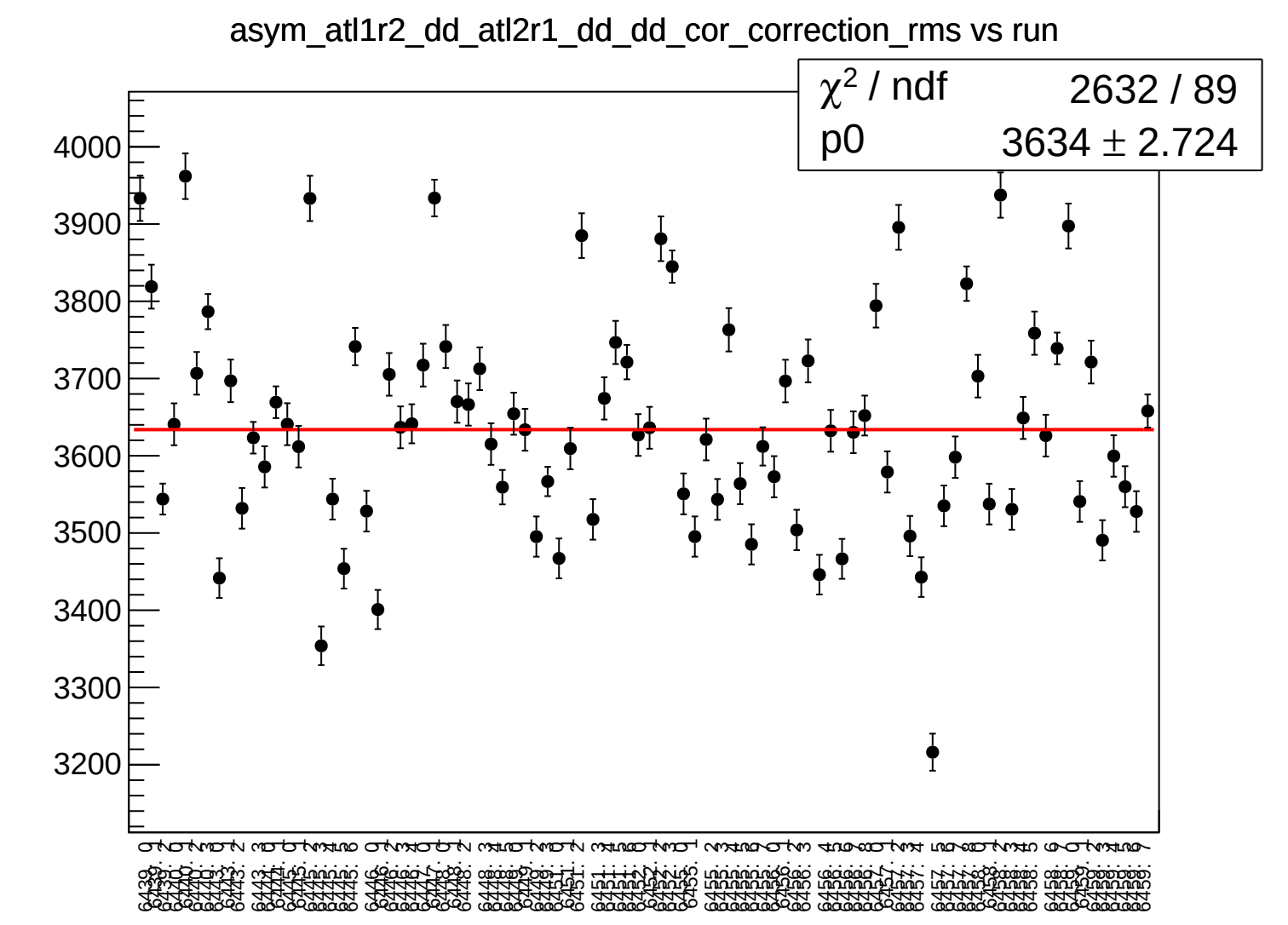

cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 67.44 / 89
p0 −1584 ± 1373
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −131.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

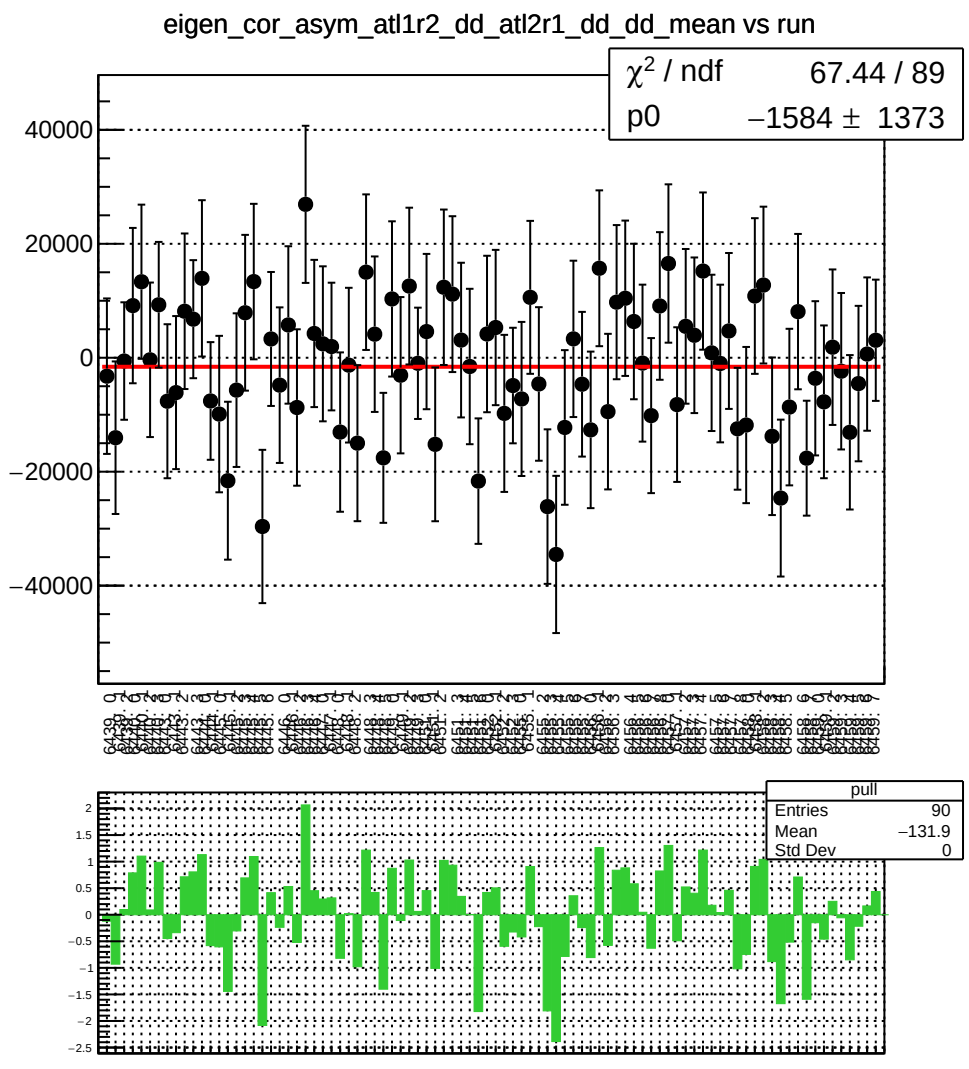

pull1D
Entries 90
Mean 0.01161
Std Dev 0.8656
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

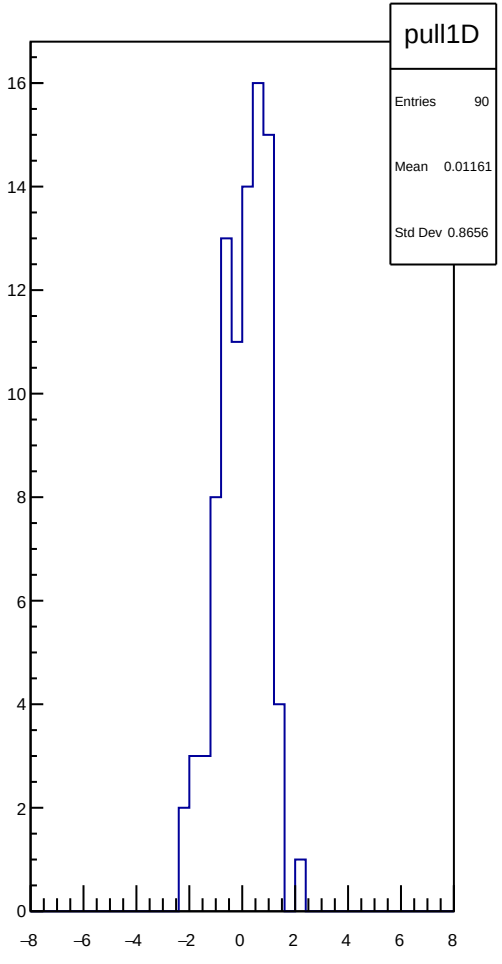

cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 131.3 / 89
p0 1296 ± 0.9709
1340
1330
1320
1310
1300
1290
1280
1270
1260


asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_mean vs run
χ² / ndf 82.78 / 89
p0 5741 ± 3853
×10³
150
100
50
0
−50
−100
pull
Entries 90
Mean −149
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 90
Mean 0.01598
Std Dev 0.9589
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_rms vs run
χ² / ndf 2632 / 89
p0 3634 ± 2.724
4000
3900
3800
3700
3600
3500
3400
3300
3200


eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 67.44 / 89
p0 −1584 ± 1373
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −131.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 90
Mean 0.01161
Std Dev 0.8656
16
14
12
10
8
6
4
2
0
−8
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2
4
6
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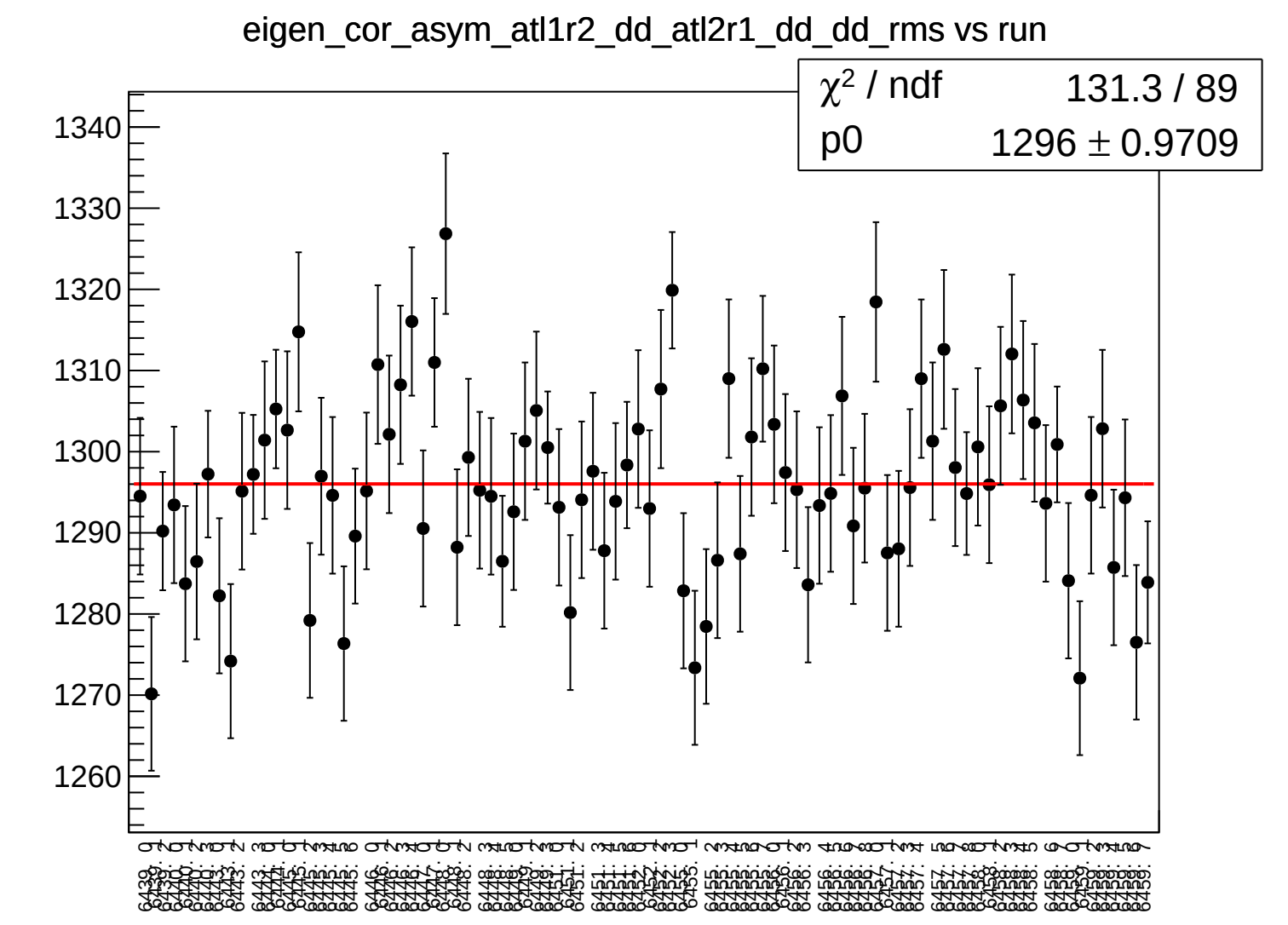
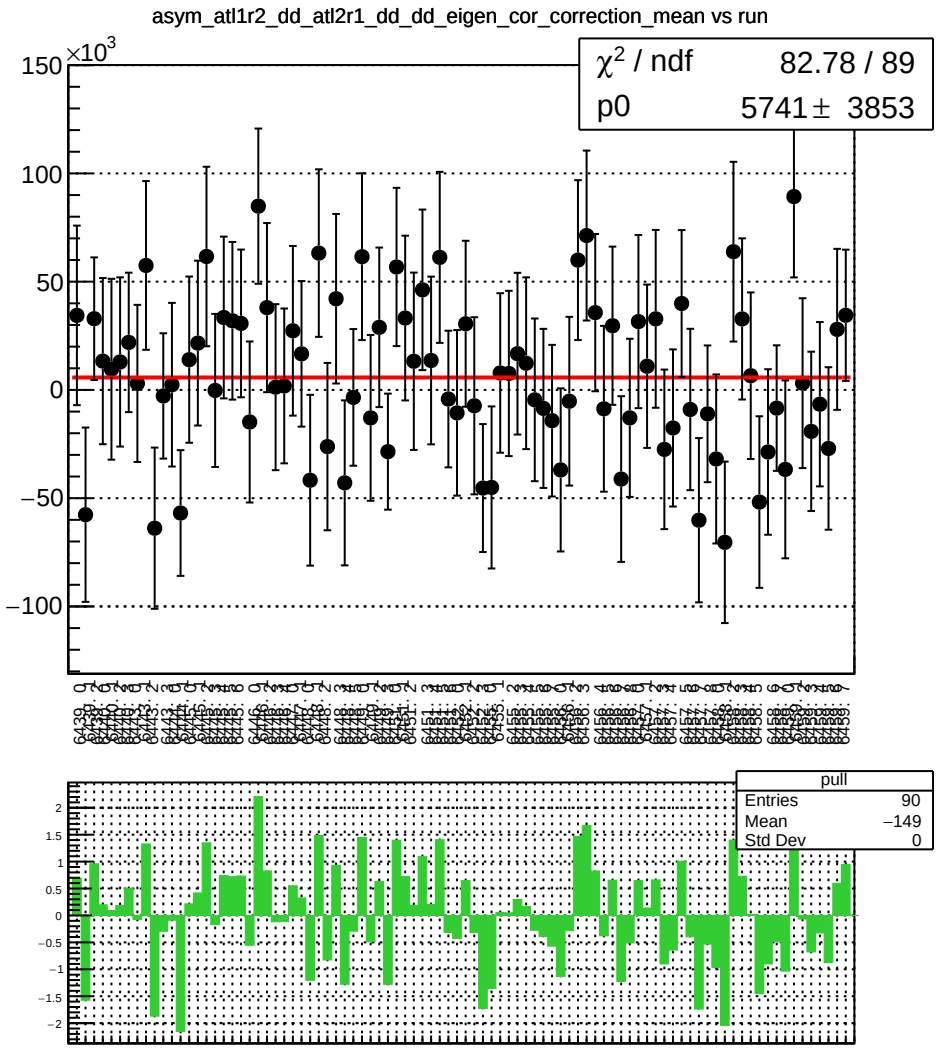
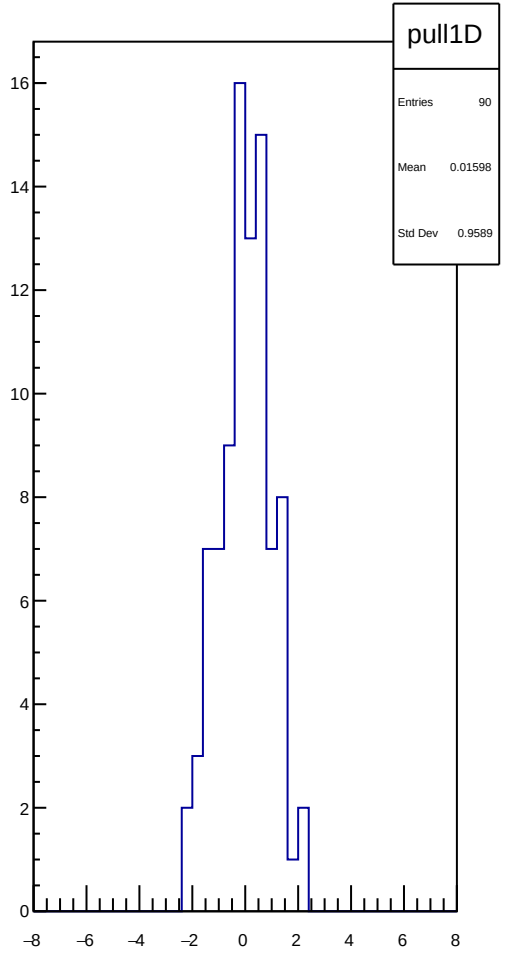

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 131.3 / 89
p0 1296 ± 0.9709
1340
1330
1320
1310
1300
1290
1280
1270
1260


asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 82.78 / 89
p0 5741 ± 3853
×10³
150
100
50
0
−50
−100
pull
Entries 90
Mean −149
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 90
Mean 0.01598
Std Dev 0.9589
16
14
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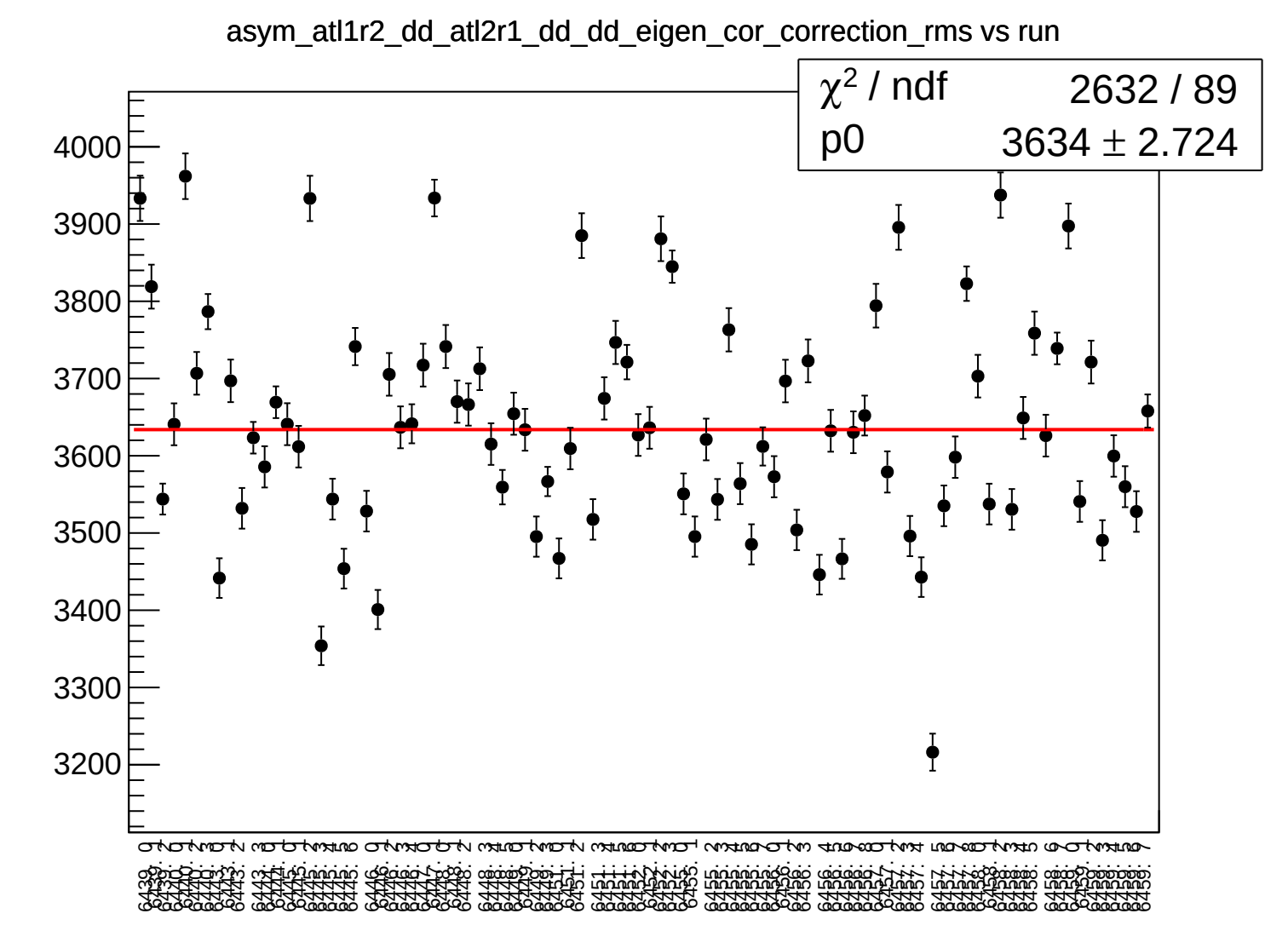
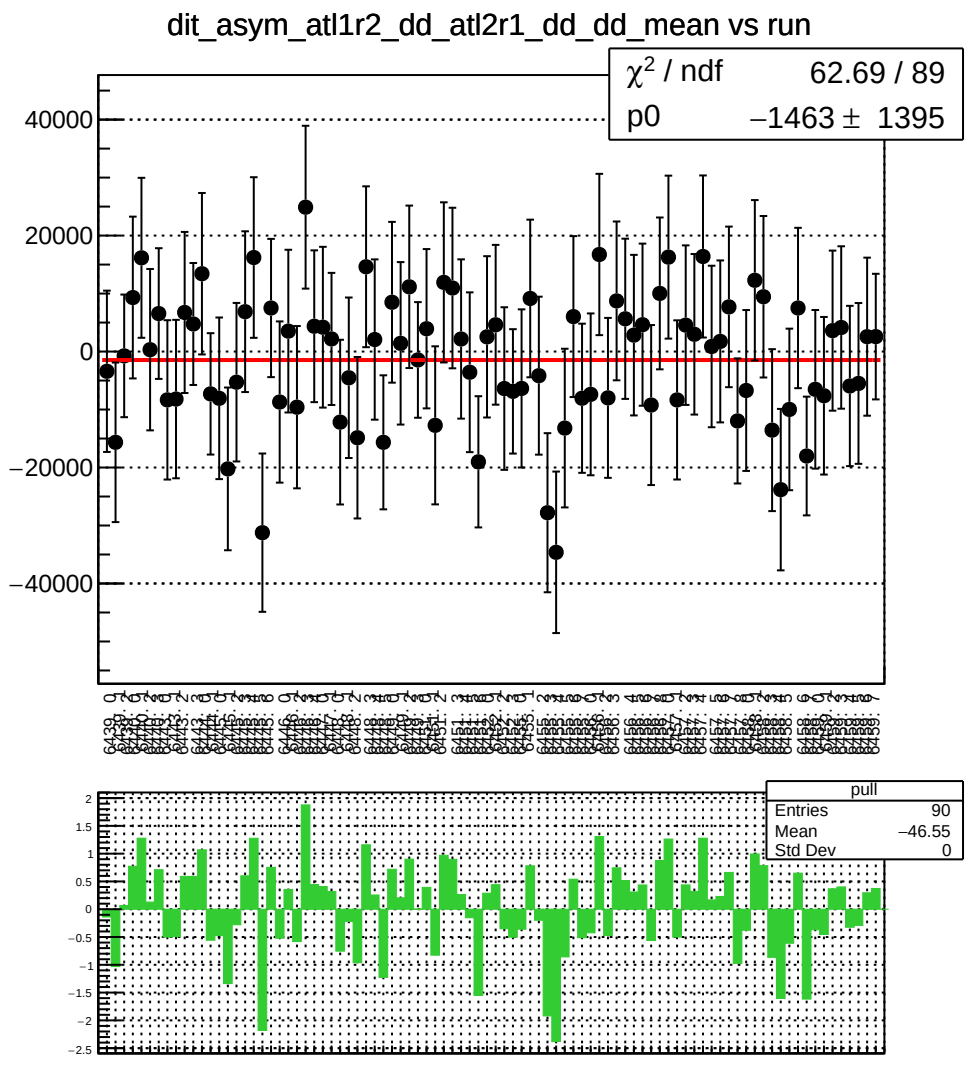
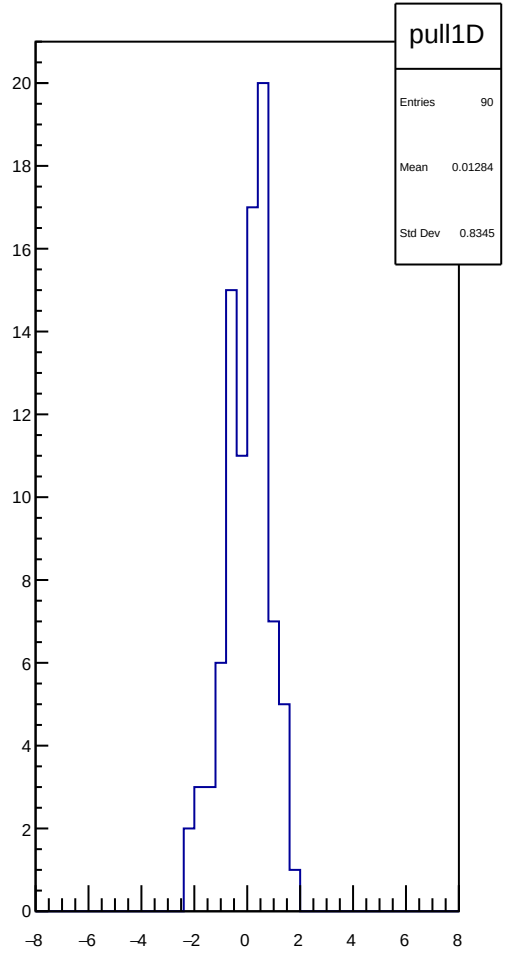
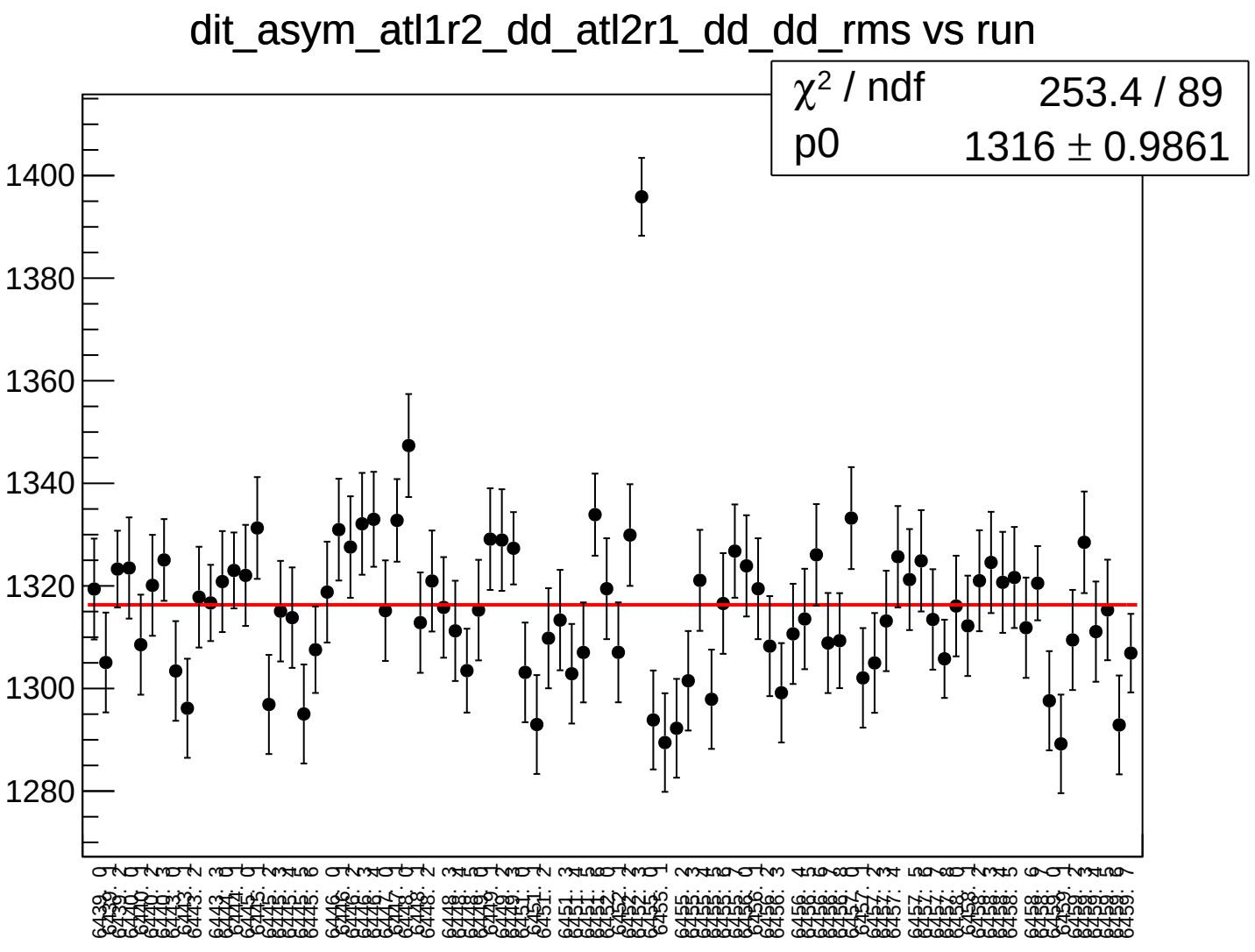
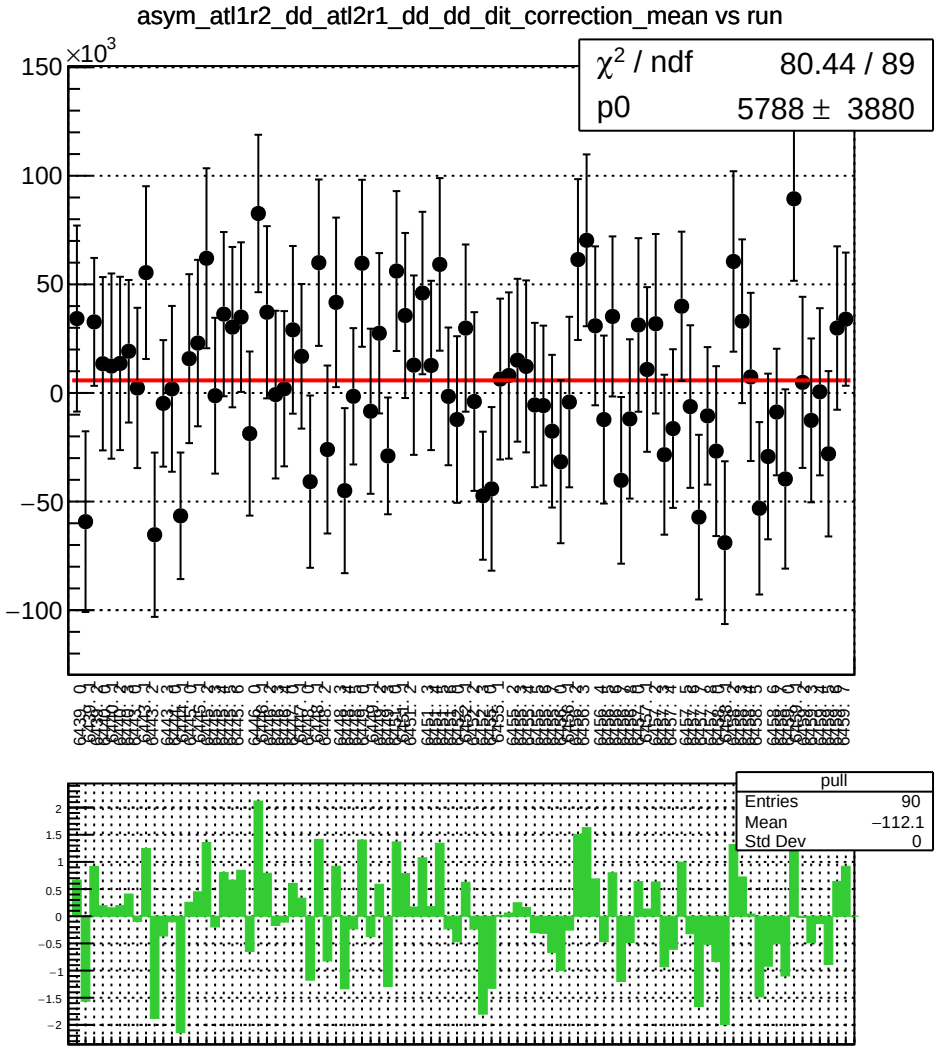
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

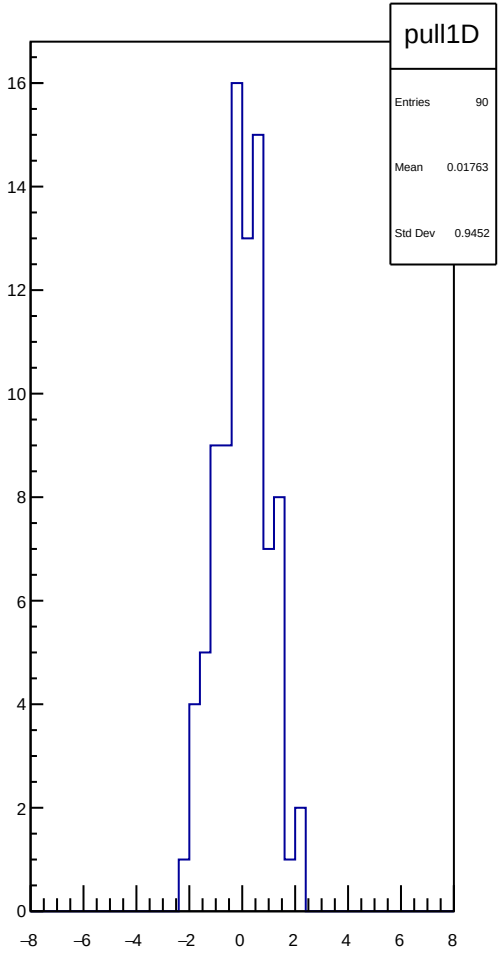

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 2632 / 89
p0 3634 ± 2.724
4000
3900
3800
3700
3600
3500
3400
3300
3200

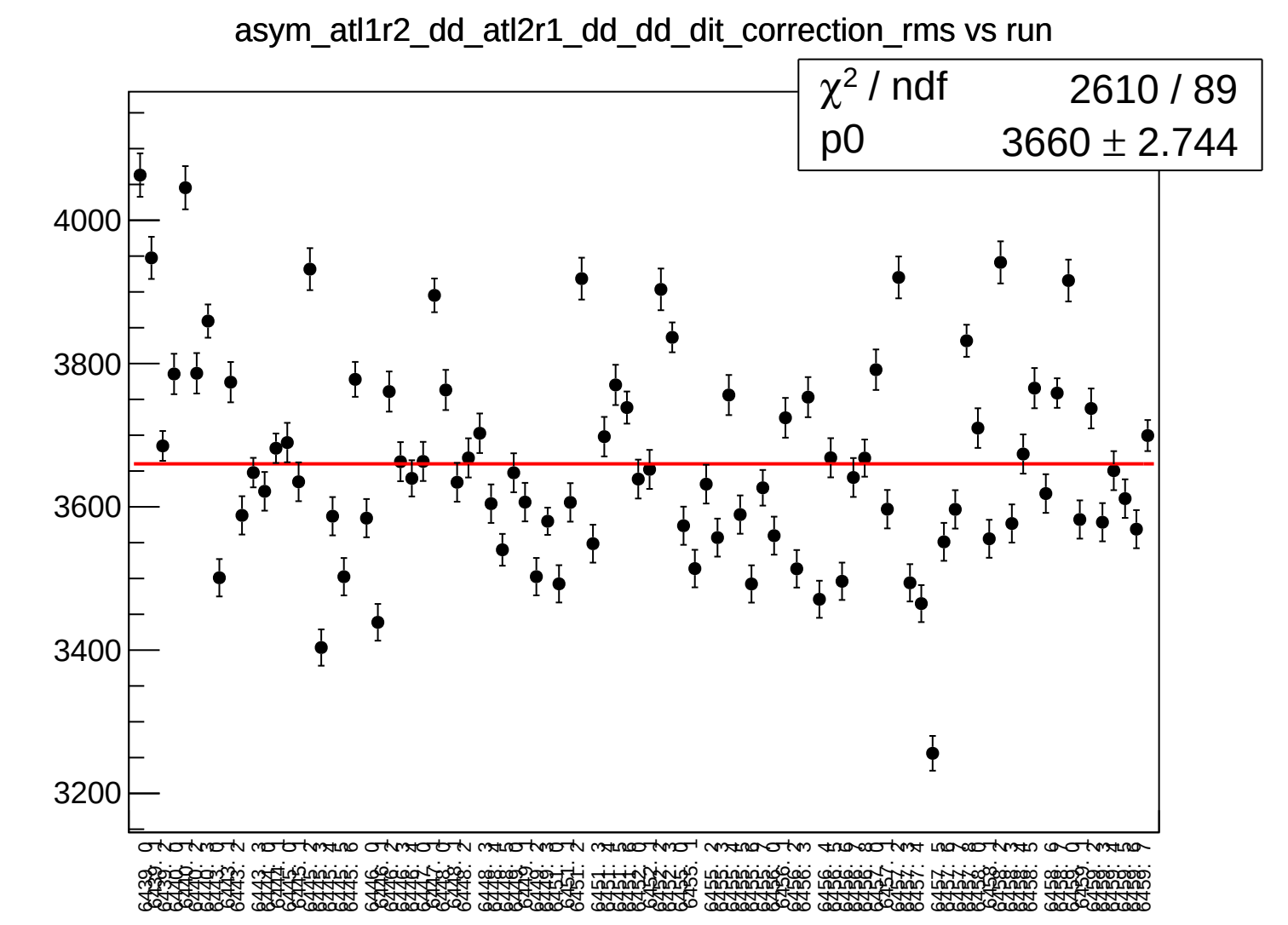

dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 62.69 / 89
p0 −1463 ± 1395
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −46.55
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

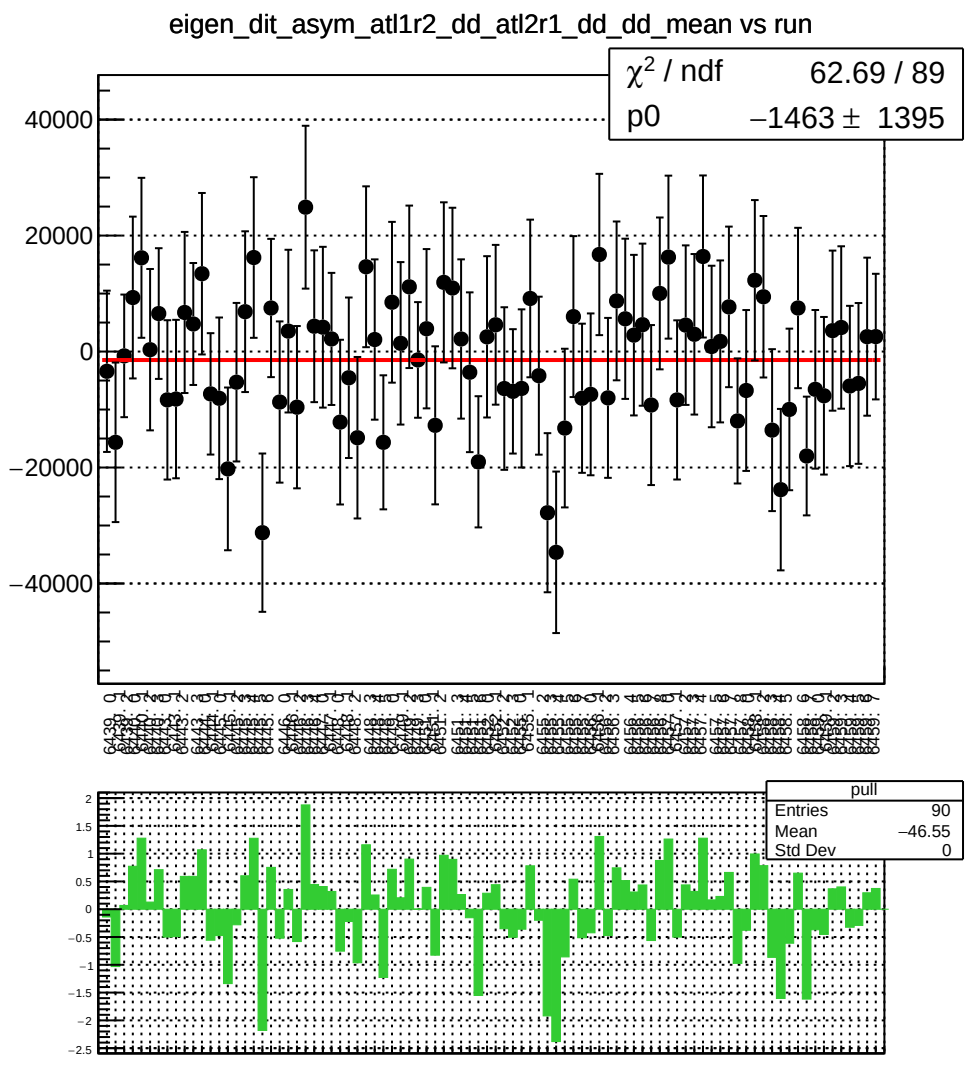

pull1D
Entries 90
Mean 0.01284
Std Dev 0.8345
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

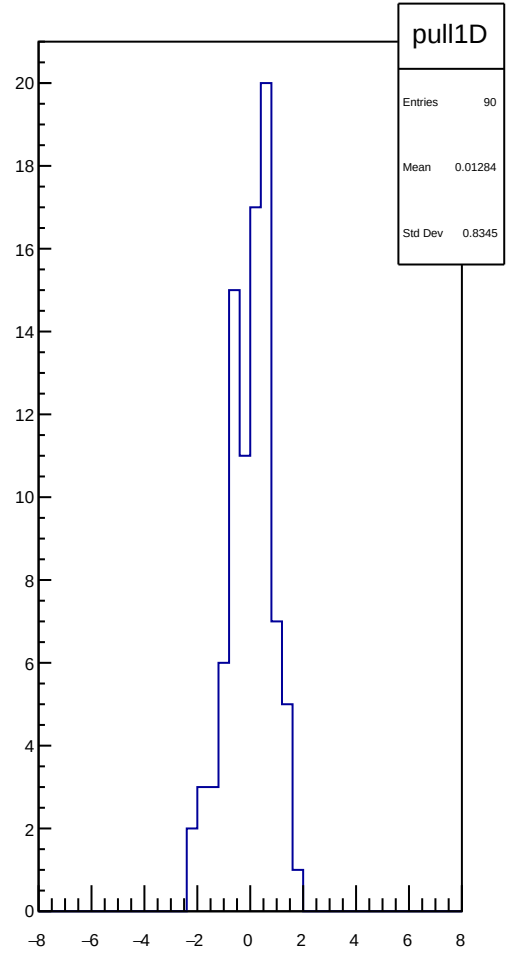

dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 253.4 / 89
p0 1316 ± 0.9861
1400
1380
1360
1340
1320
1300
1280

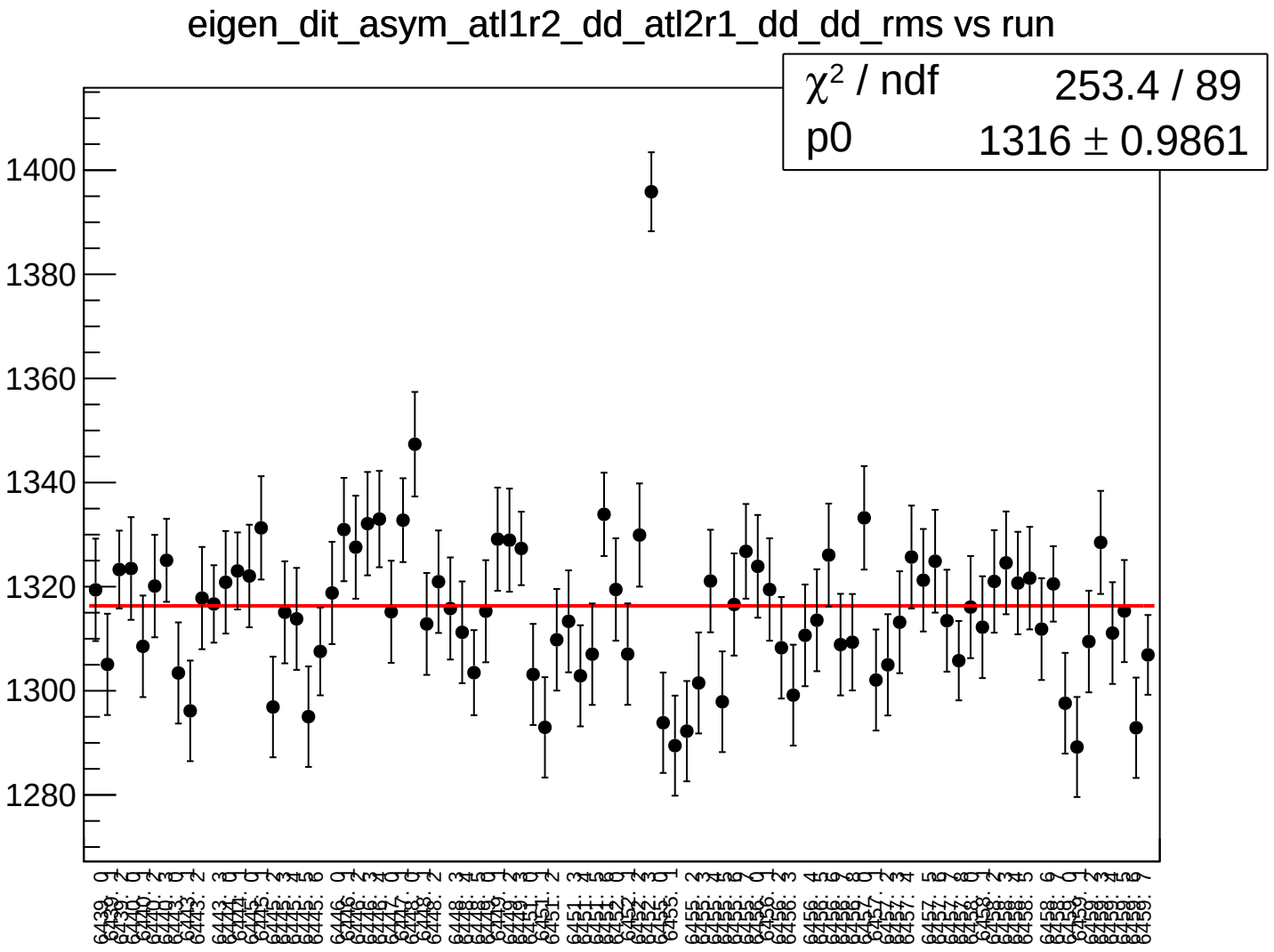

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_mean vs run
×10^3
χ² / ndf 80.44 / 89
p0 5788 ± 3880
150
100
50
0
−50
−100
pull
Entries 90
Mean −112.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

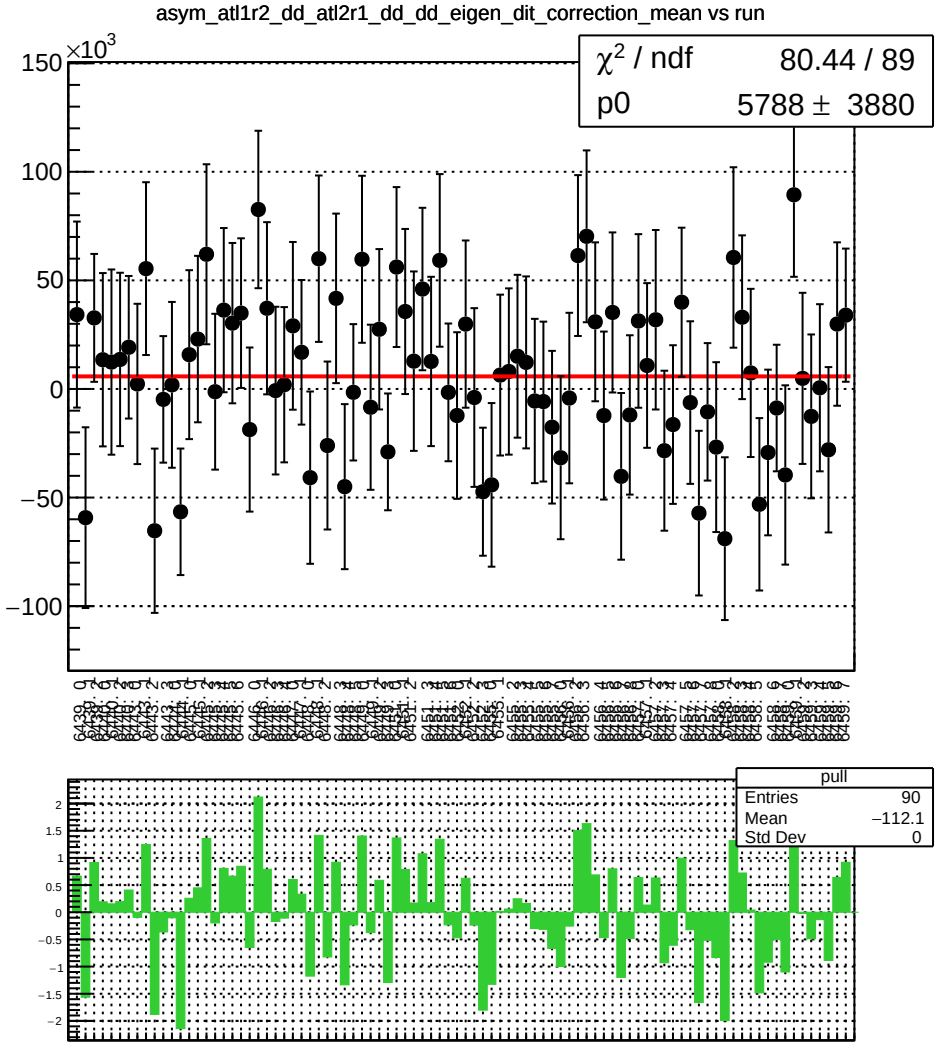

pull1D
Entries 90
Mean 0.01763
Std Dev 0.9452
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

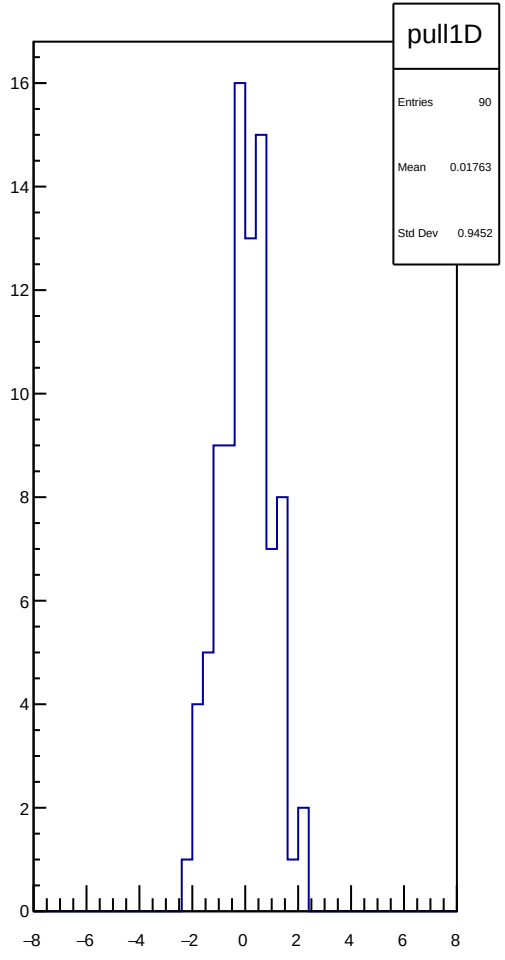

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_rms vs run
χ² / ndf 2610 / 89
p0 3660 ± 2.744
4000
3800
3600
3400
3200


eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 62.69 / 89
p0 −1463 ± 1395
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −46.55
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 90
Mean 0.01284
Std Dev 0.8345
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 253.4 / 89
p0 1316 ± 0.9861
1400
1380
1360
1340
1320
1300
1280


asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 80.44 / 89
p0 5788 ± 3880
×10³
150
100
50
0
−50
−100
pull
Entries 90
Mean −112.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 90
Mean 0.01763
Std Dev 0.9452
16
14
12
10
8
6
4
2
0
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−6
−4
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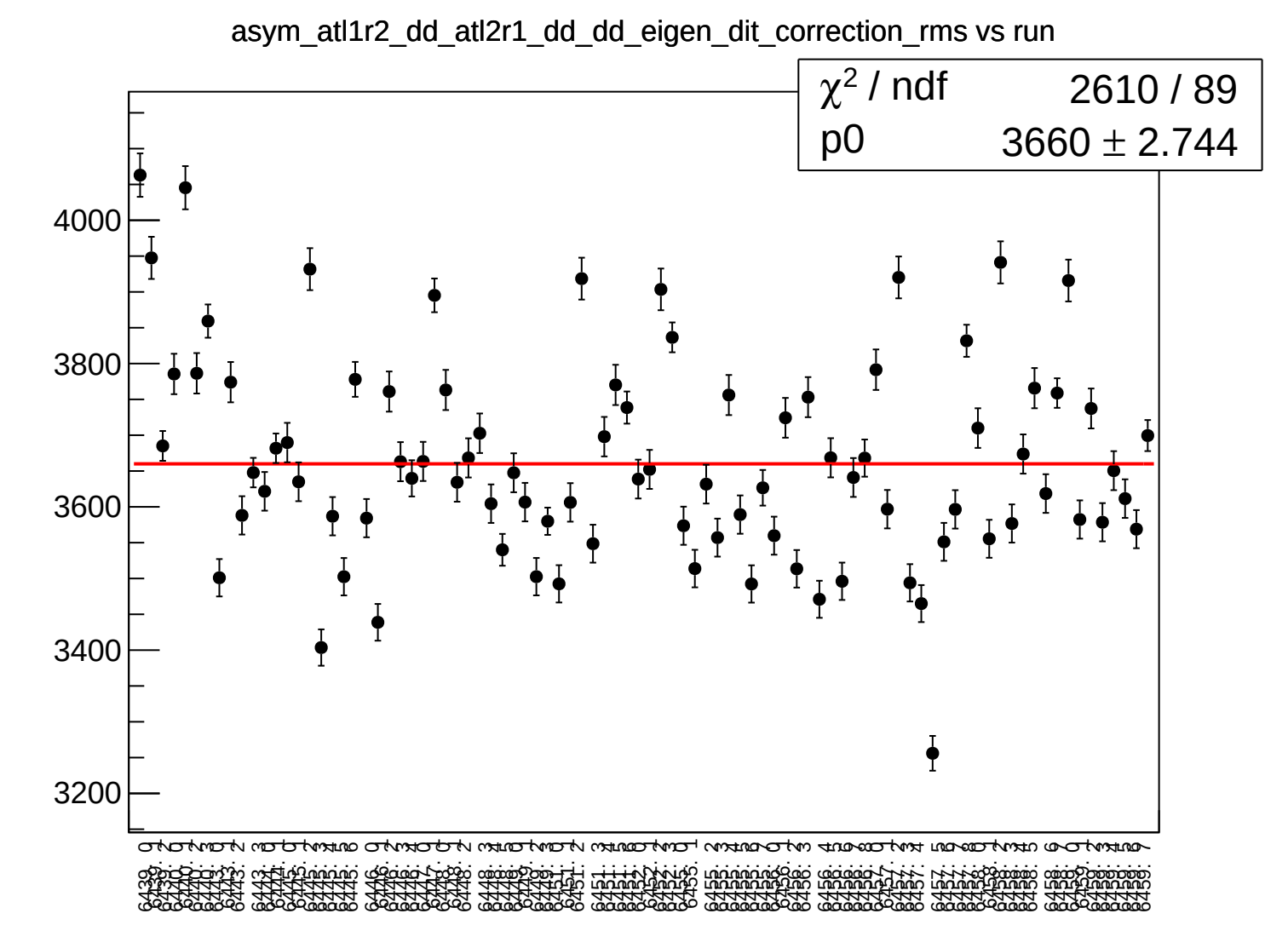
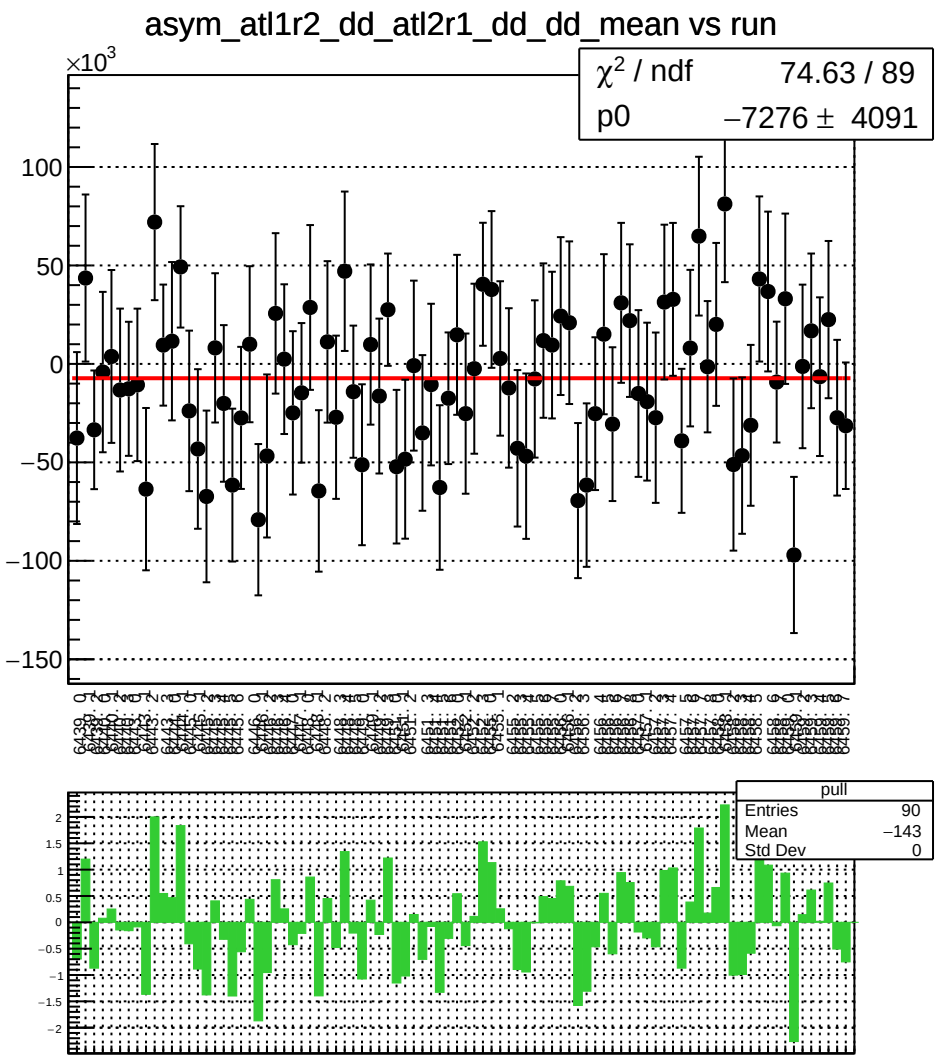
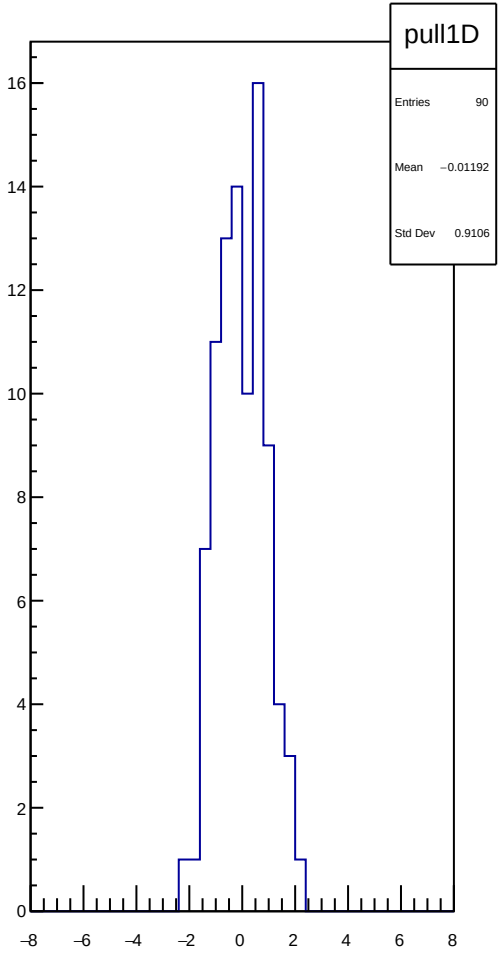
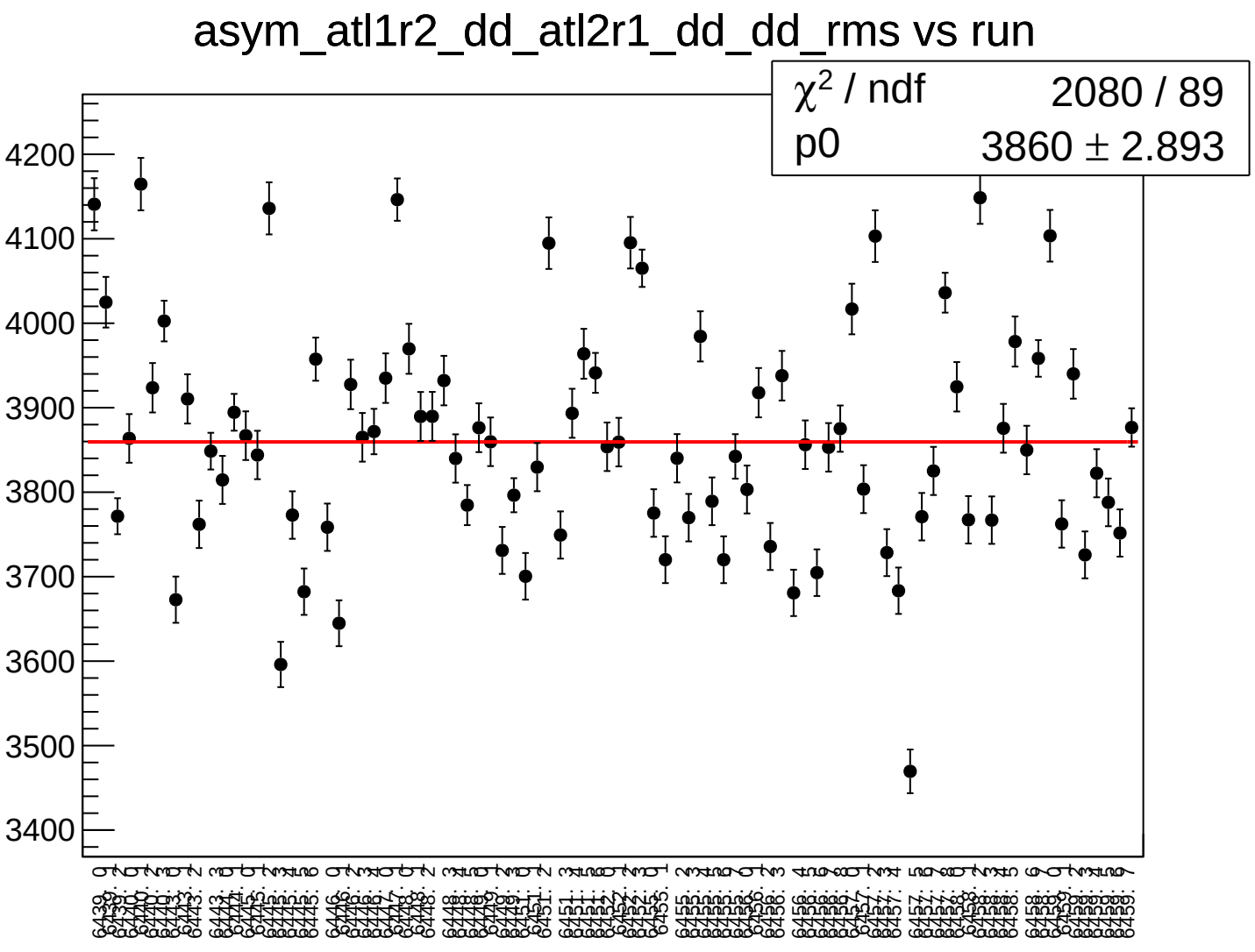
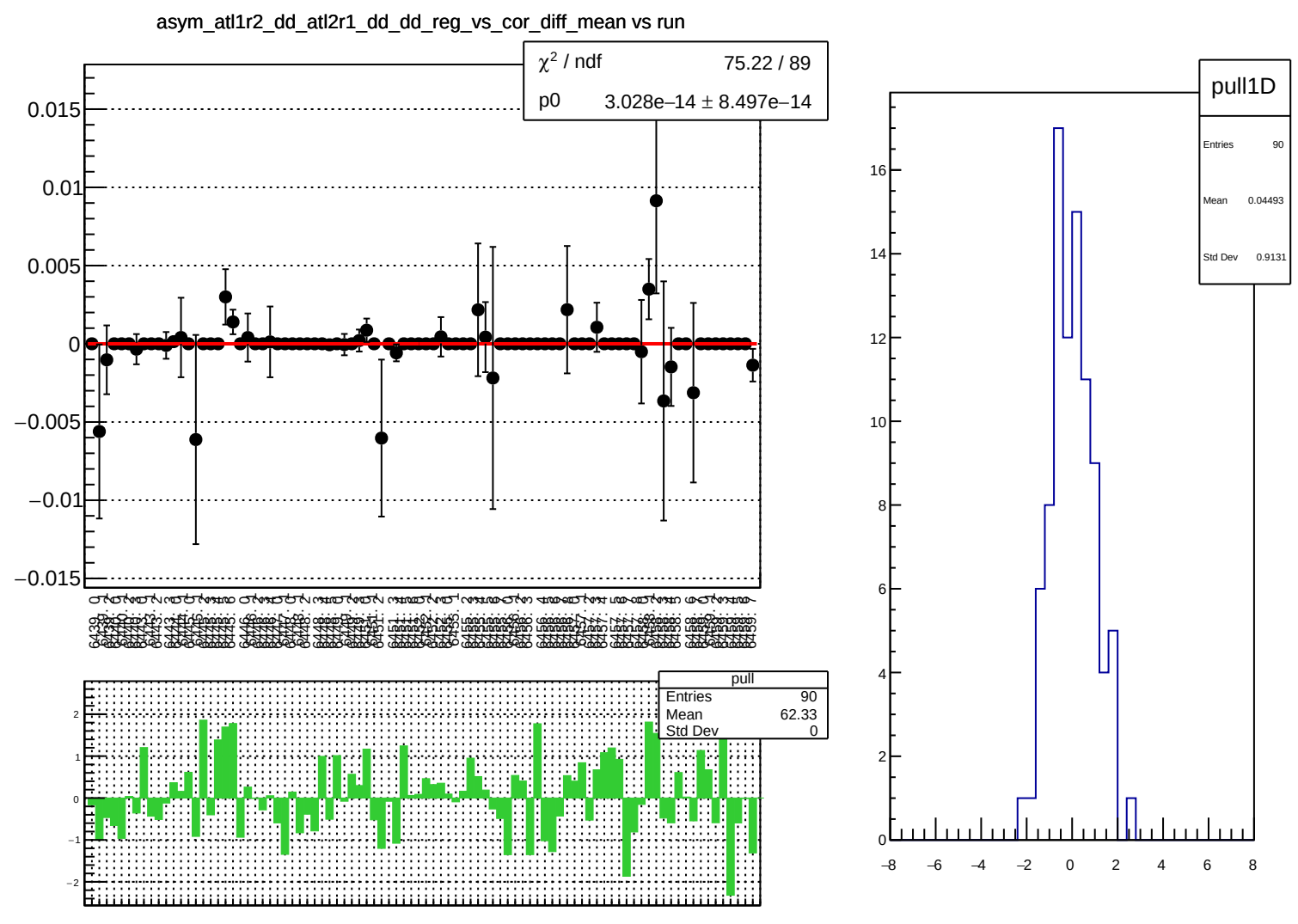
0
2
4
6
8

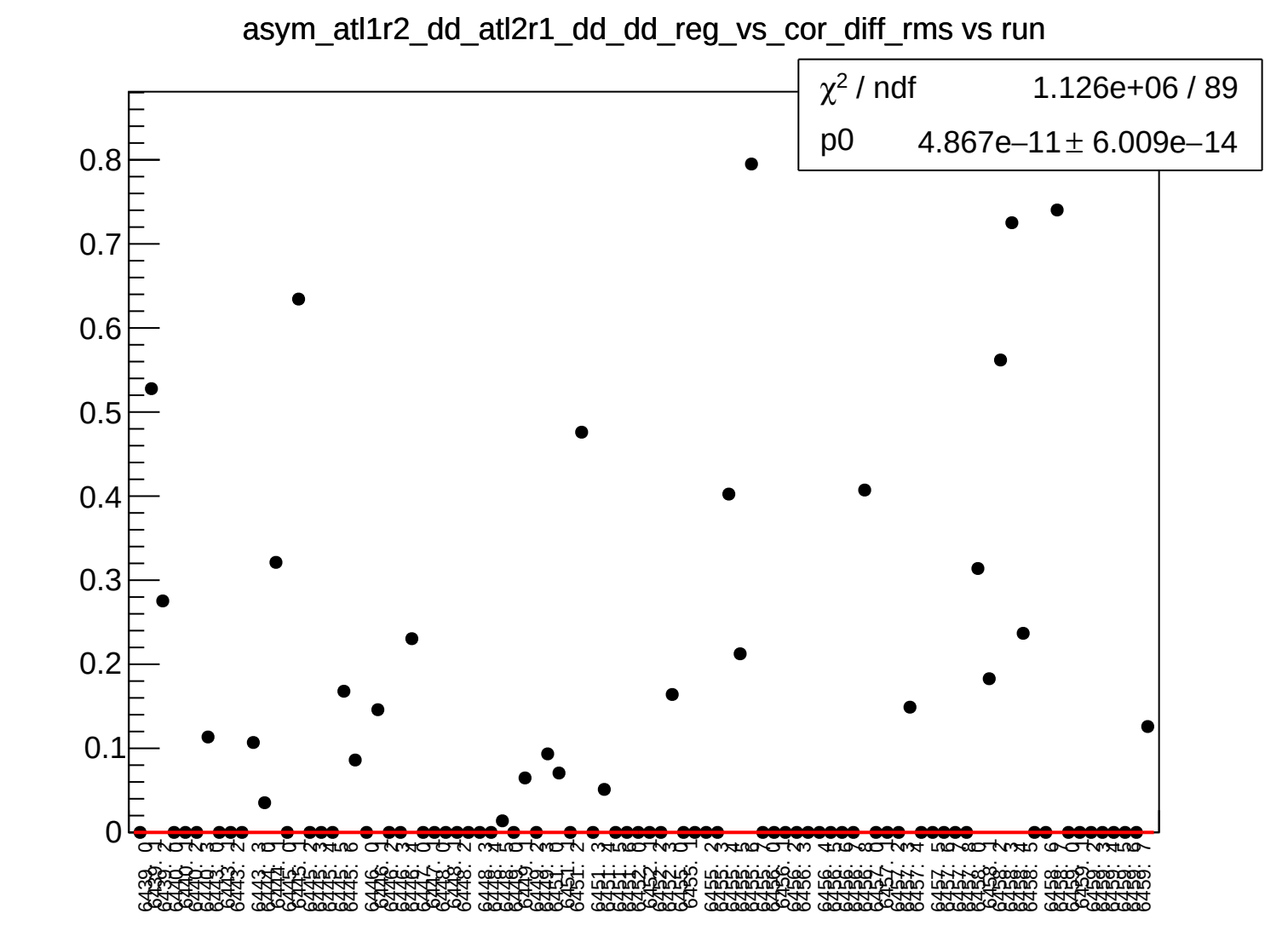

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 2610 / 89
p0 3660 ± 2.744
4000
3800
3600
3400
3200

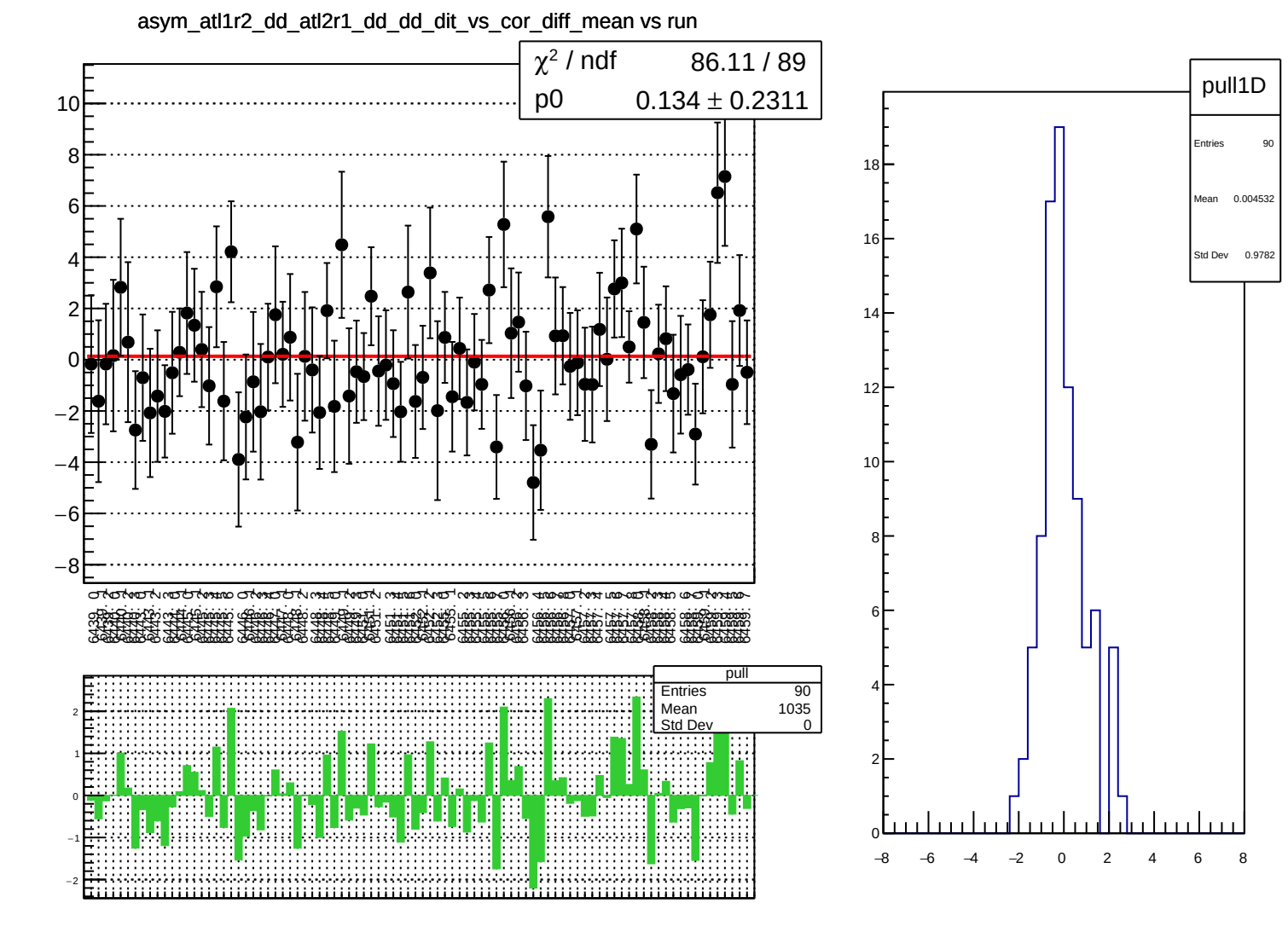

asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
×10^3
χ² / ndf 74.63 / 89
p0 −7276 ± 4091
100
50
0
−50
−100
−150
pull
Entries 90
Mean −143
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

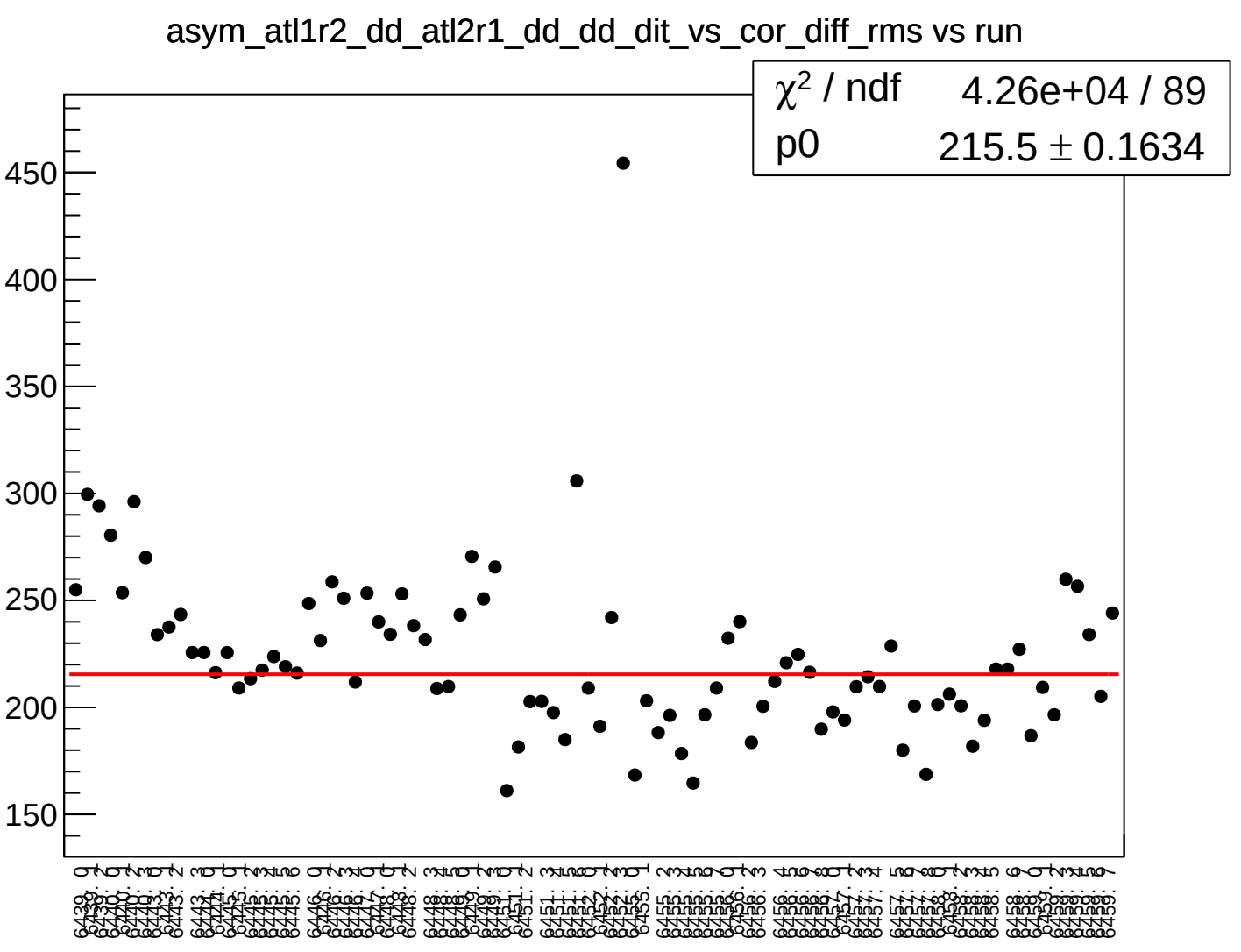

pull1D
Entries 90
Mean −0.01192
Std Dev 0.9106
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

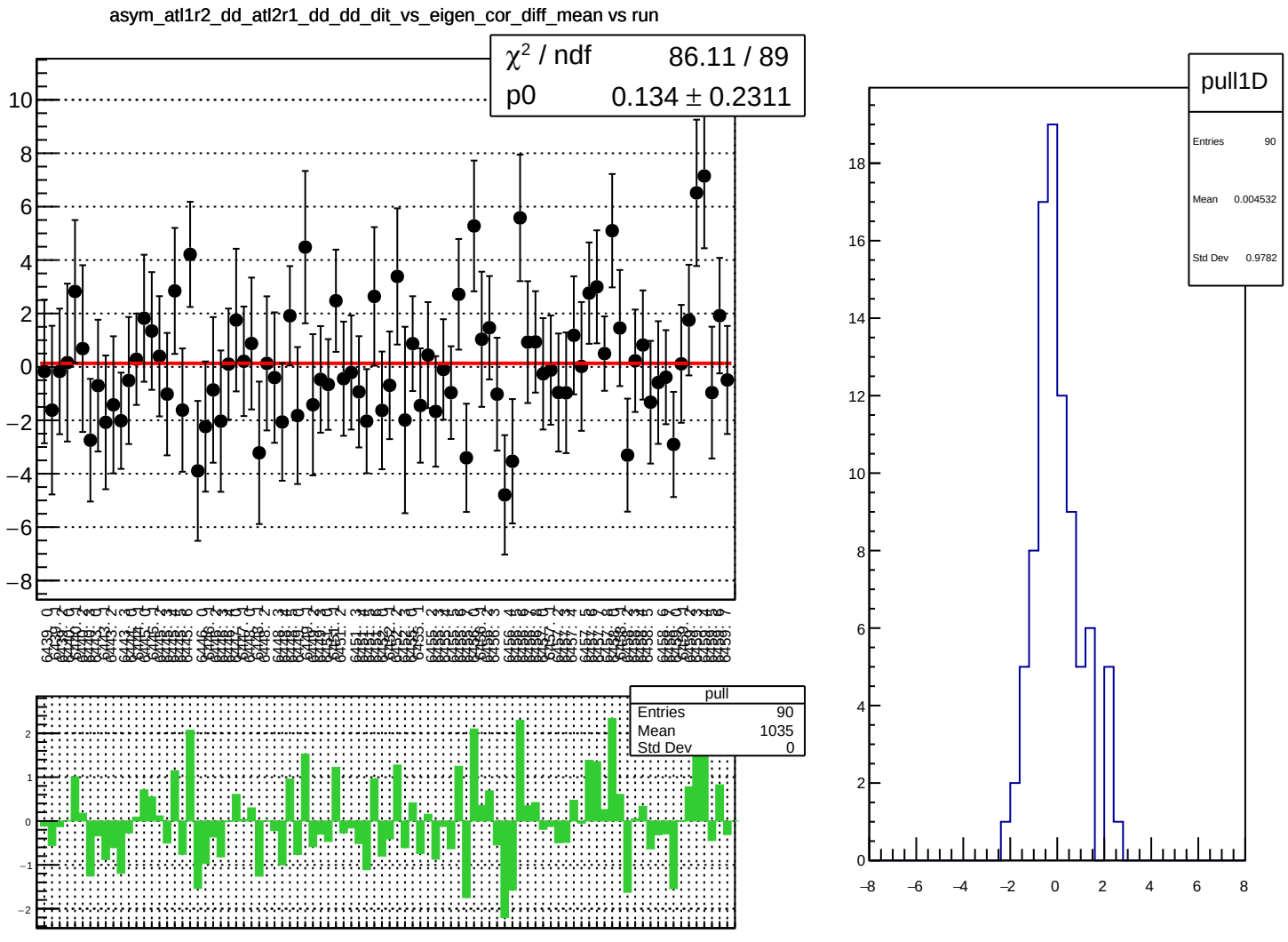

asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 2080 / 89
p0 3860 ± 2.893
4200
4100
4000
3900
3800
3700
3600
3500
3400

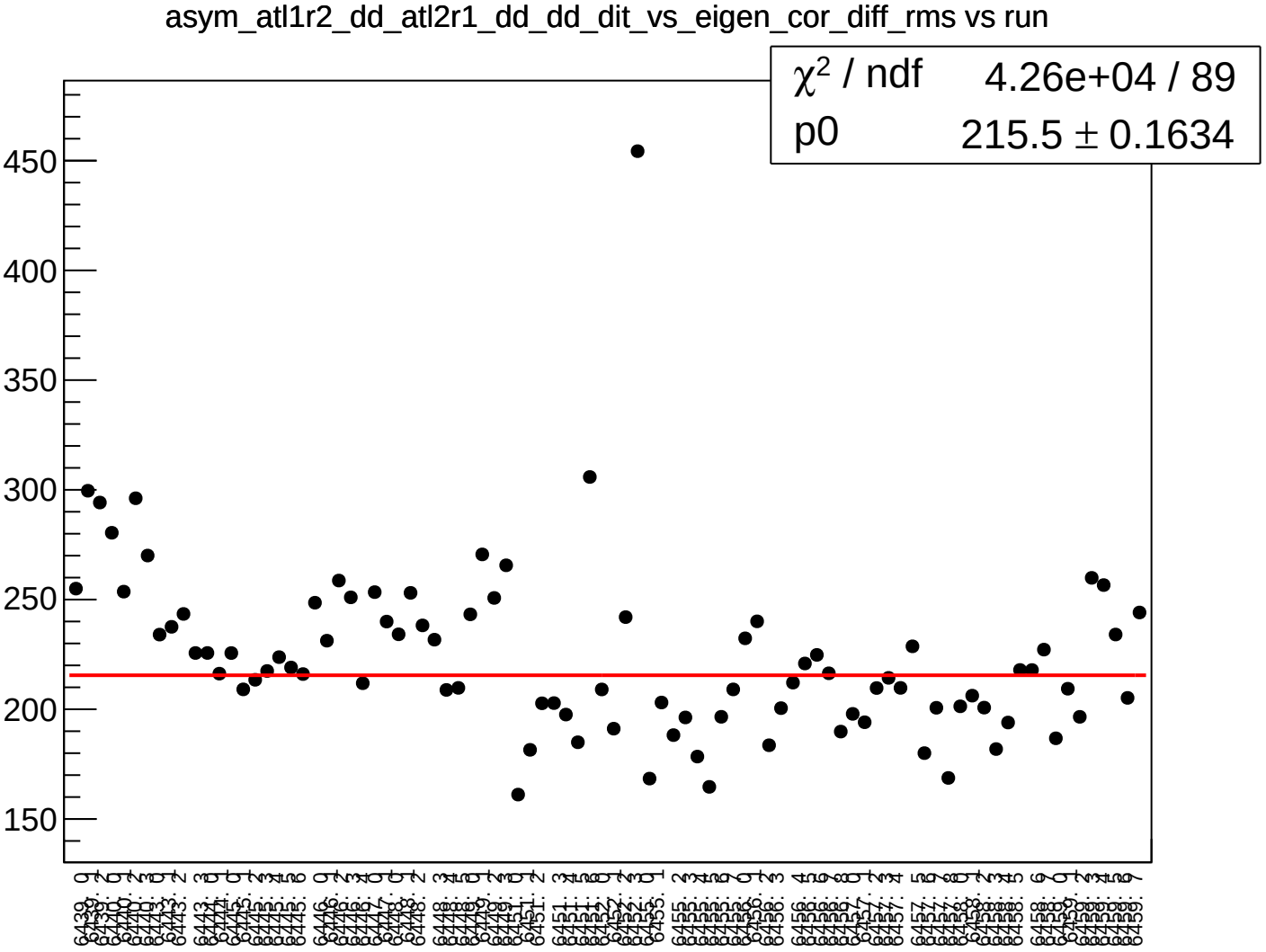

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 75.22 / 89
p0 3.028e−14 ± 8.497e−14
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 90
Mean 62.33
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 90
Mean 0.04493
Std Dev 0.9131
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

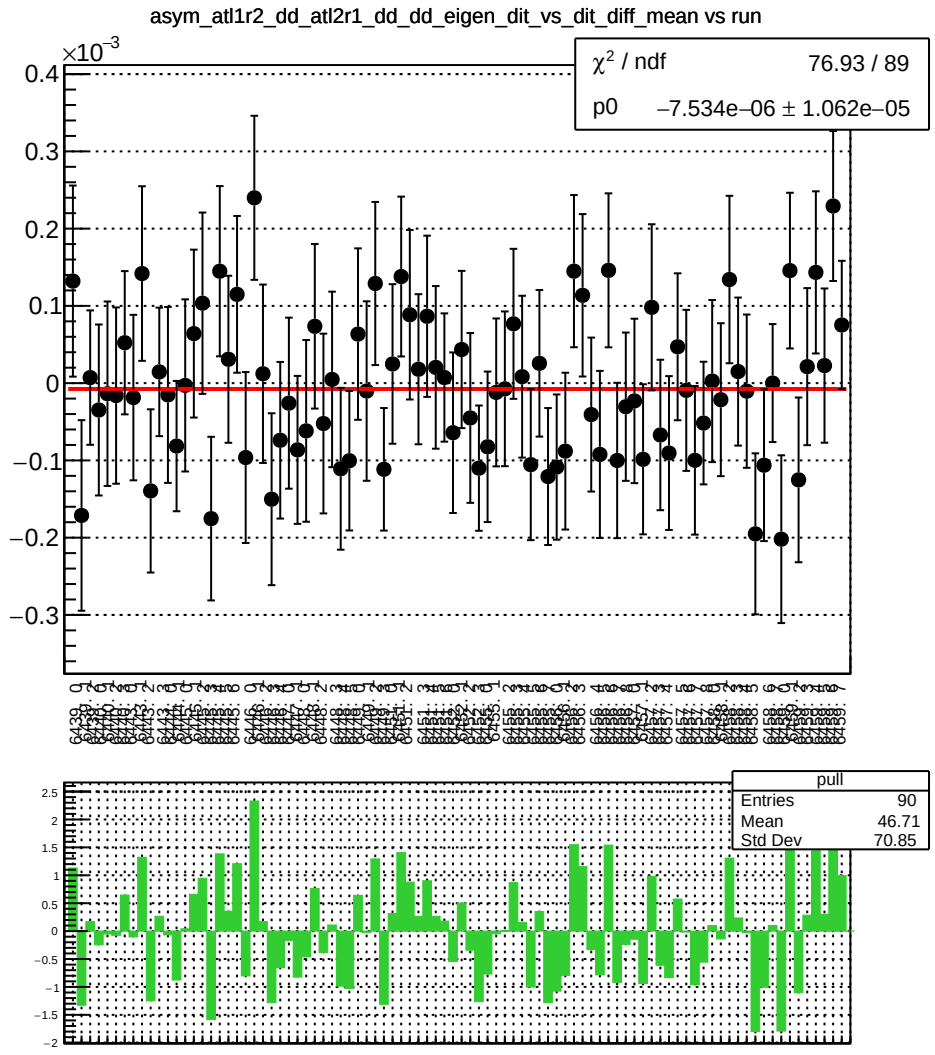

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.126e+06 / 89
p0 4.867e−11 ± 6.009e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

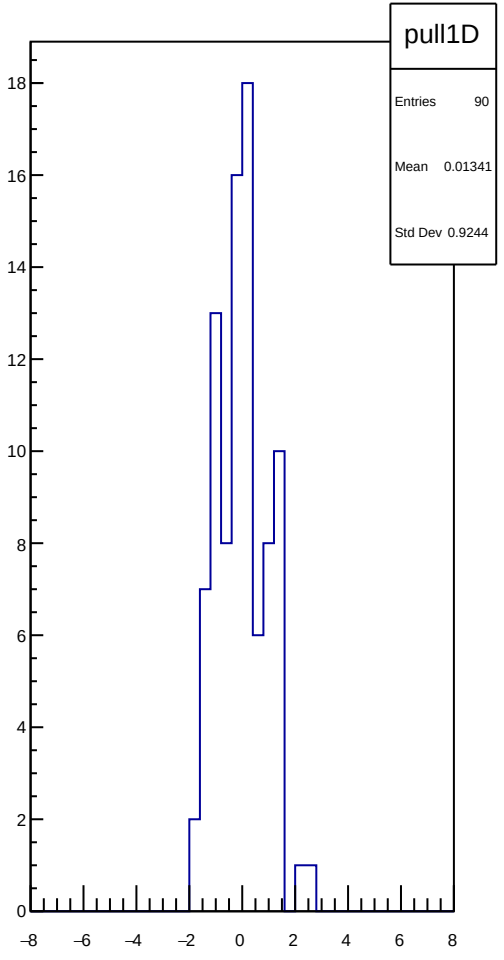

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 86.11 / 89
p0 0.134 ± 0.2311
pull
Entries 90
Mean 1035
Std Dev 0
pull1D
Entries 90
Mean 0.004532
Std Dev 0.9782

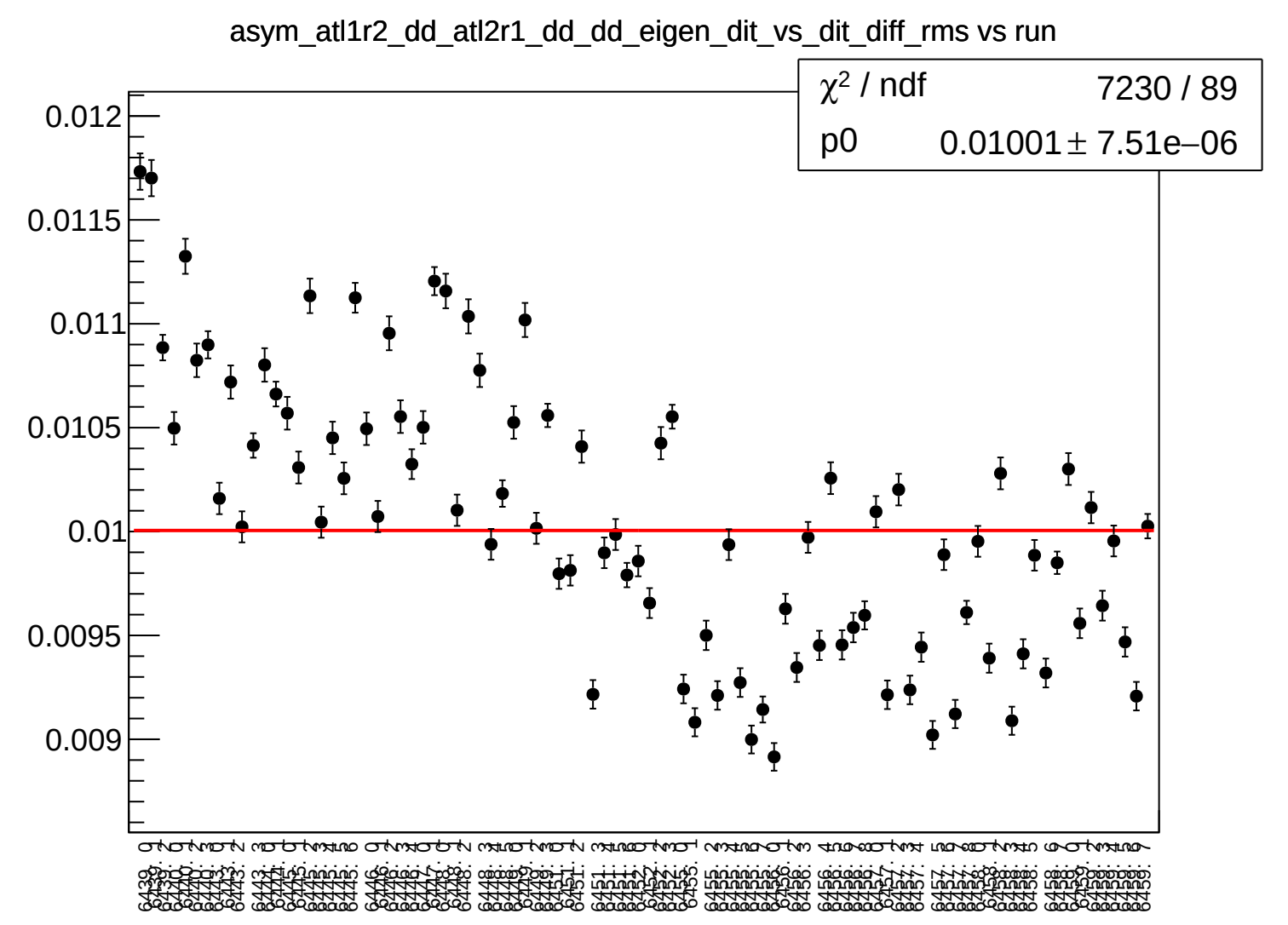

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.26e+04 / 89
p0 215.5 ± 0.1634
450
400
350
300
250
200
150

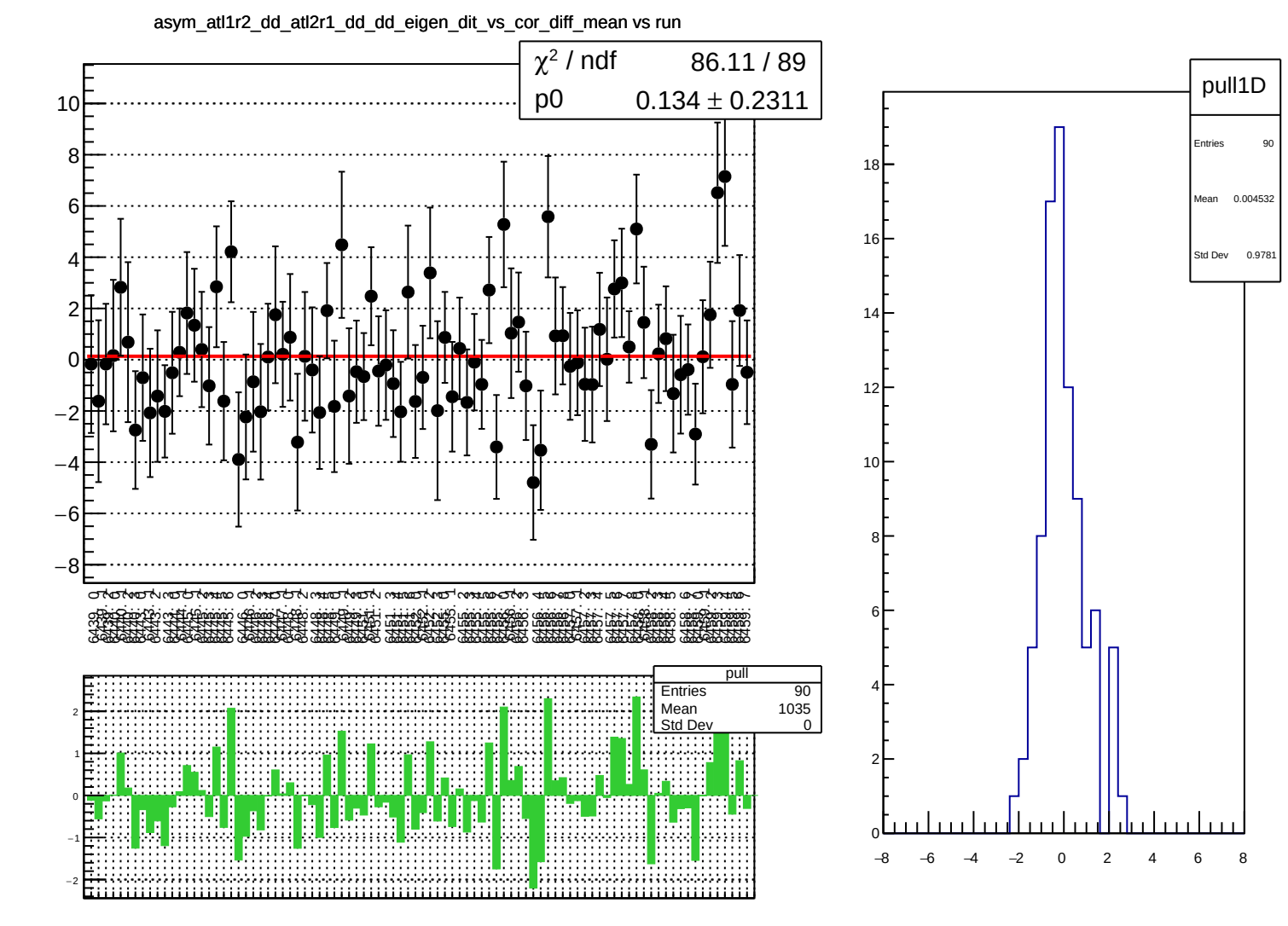

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.11 / 89
p0 0.134 ± 0.2311
pull
Entries 90
Mean 1035
Std Dev 0
pull1D
Entries 90
Mean 0.004532
Std Dev 0.9782

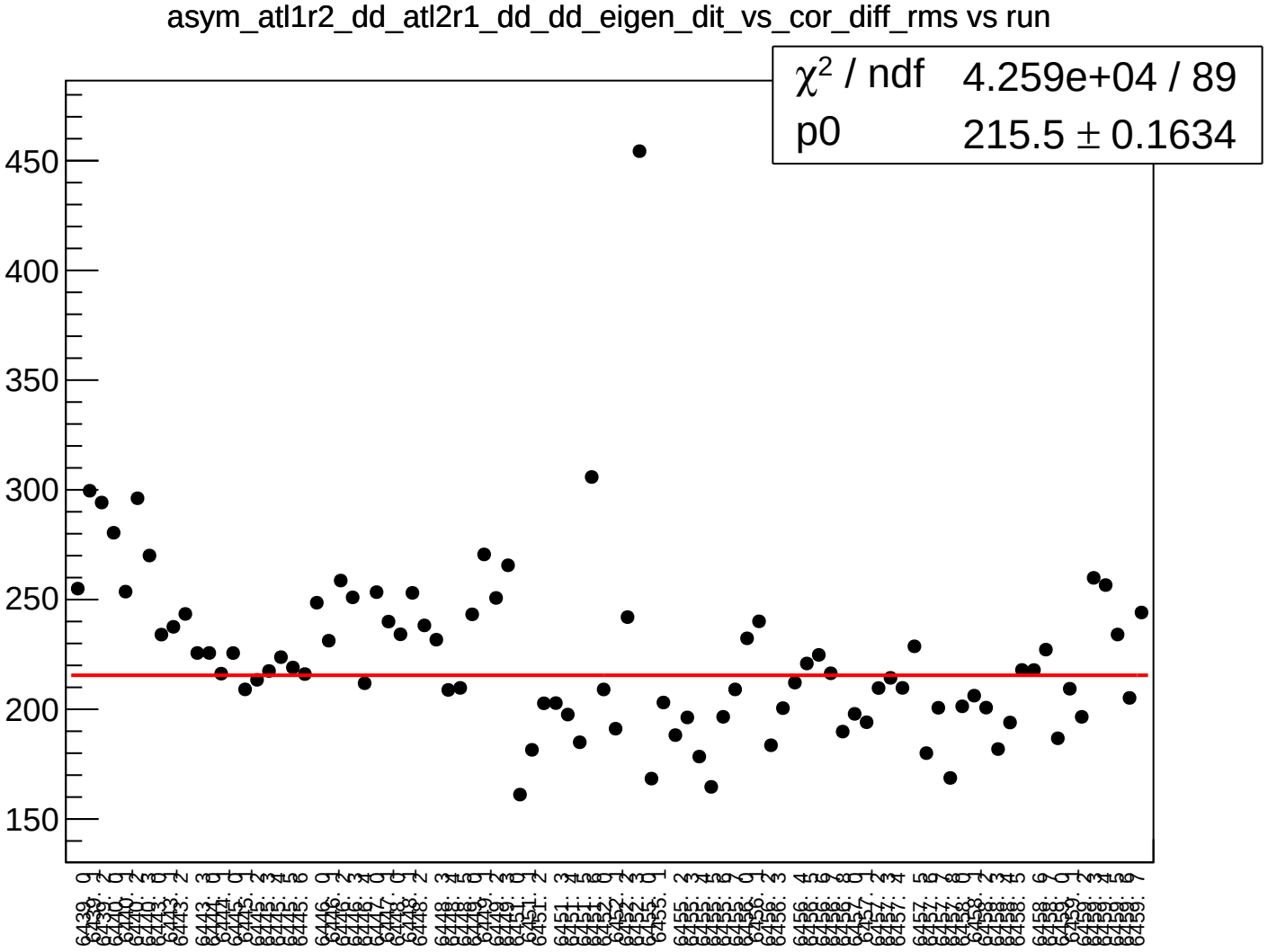

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.26e+04 / 89
p0 215.5 ± 0.1634
450
400
350
300
250
200
150

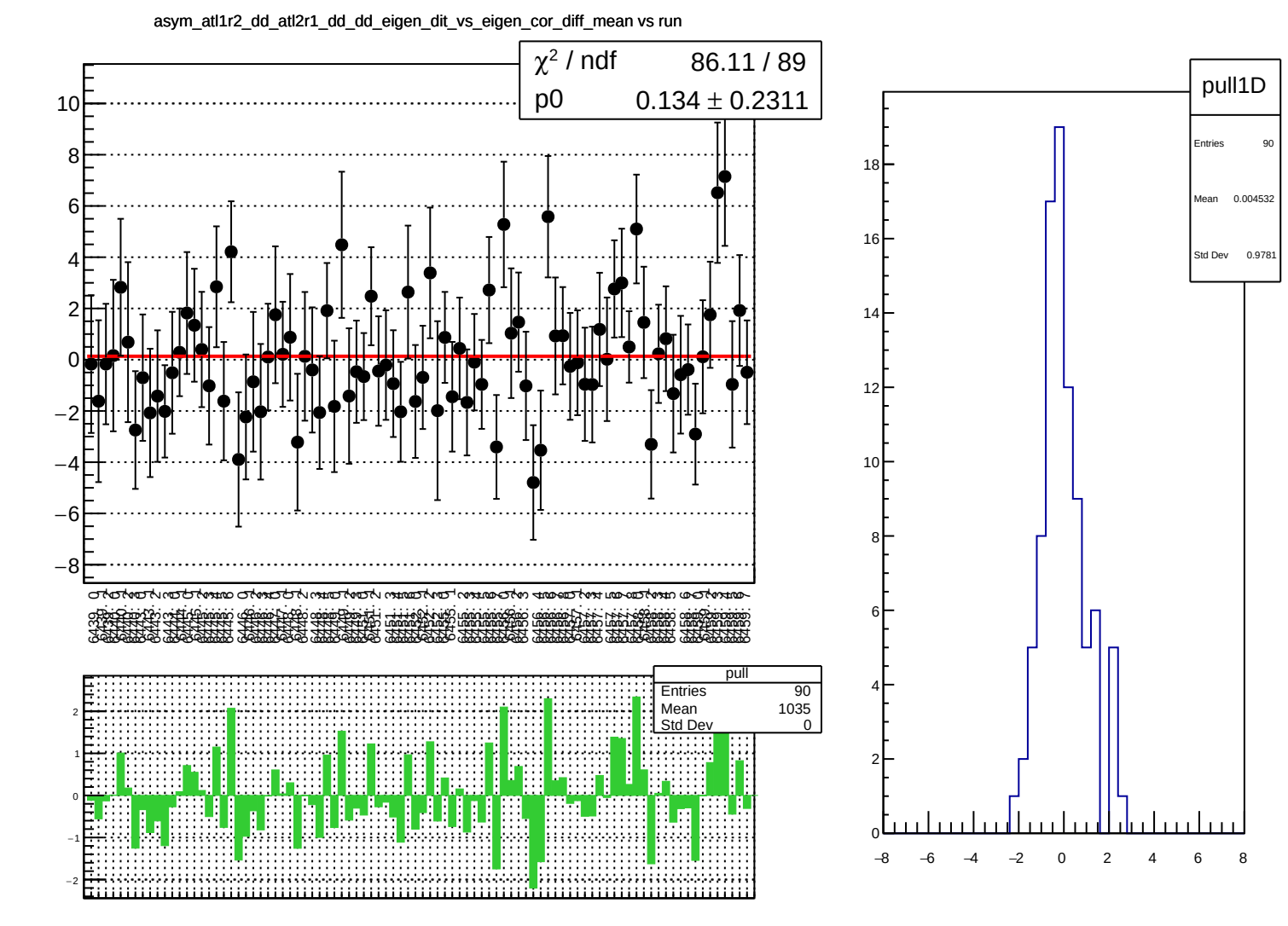

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 76.93 / 89
p0 −7.534e−06 ± 1.062e−05
pull
Entries 90
Mean 46.71
Std Dev 70.85

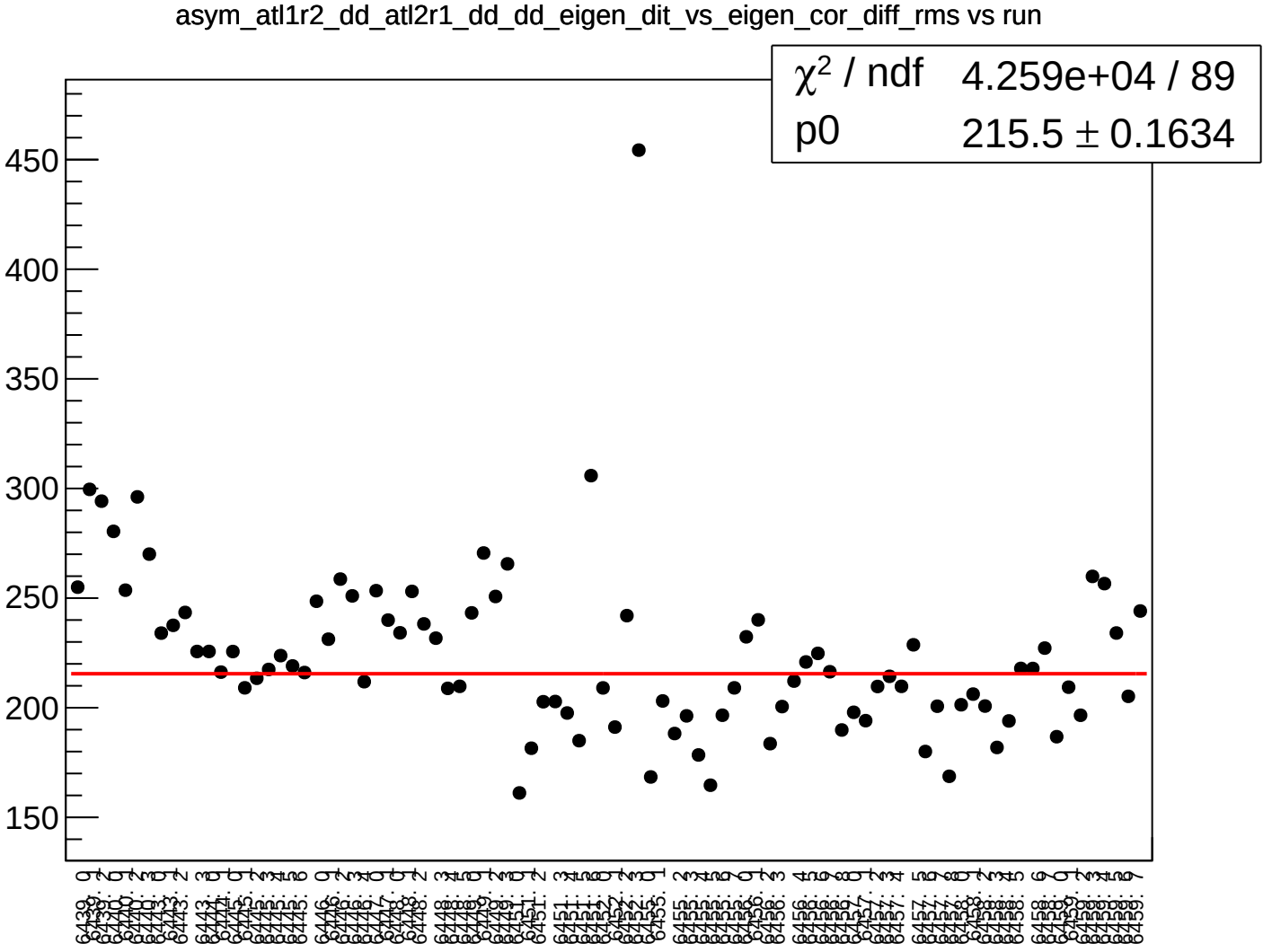

pull1D
Entries 90
Mean 0.01341
Std Dev 0.9244

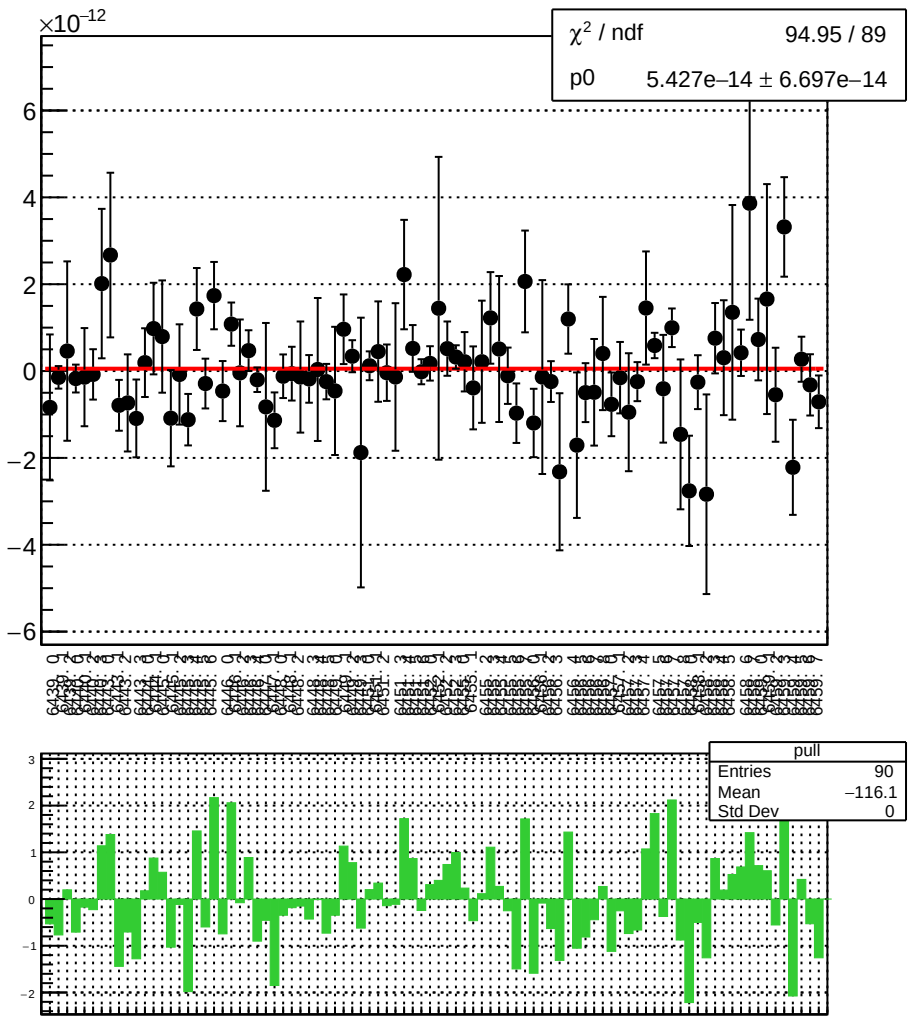

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7230 / 89
p0 0.01001 ± 7.51e−06
0.012
0.0115
0.011
0.0105
0.01
0.0095
0.009

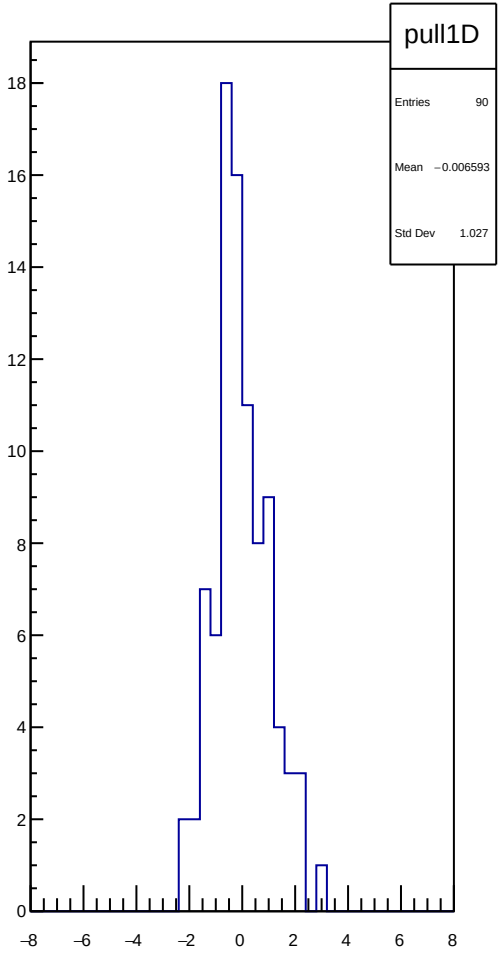

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.11 / 89
p0 0.134 ± 0.2311
pull
Entries 90
Mean 1035
Std Dev 0
pull1D
Entries 90
Mean 0.004532
Std Dev 0.9781

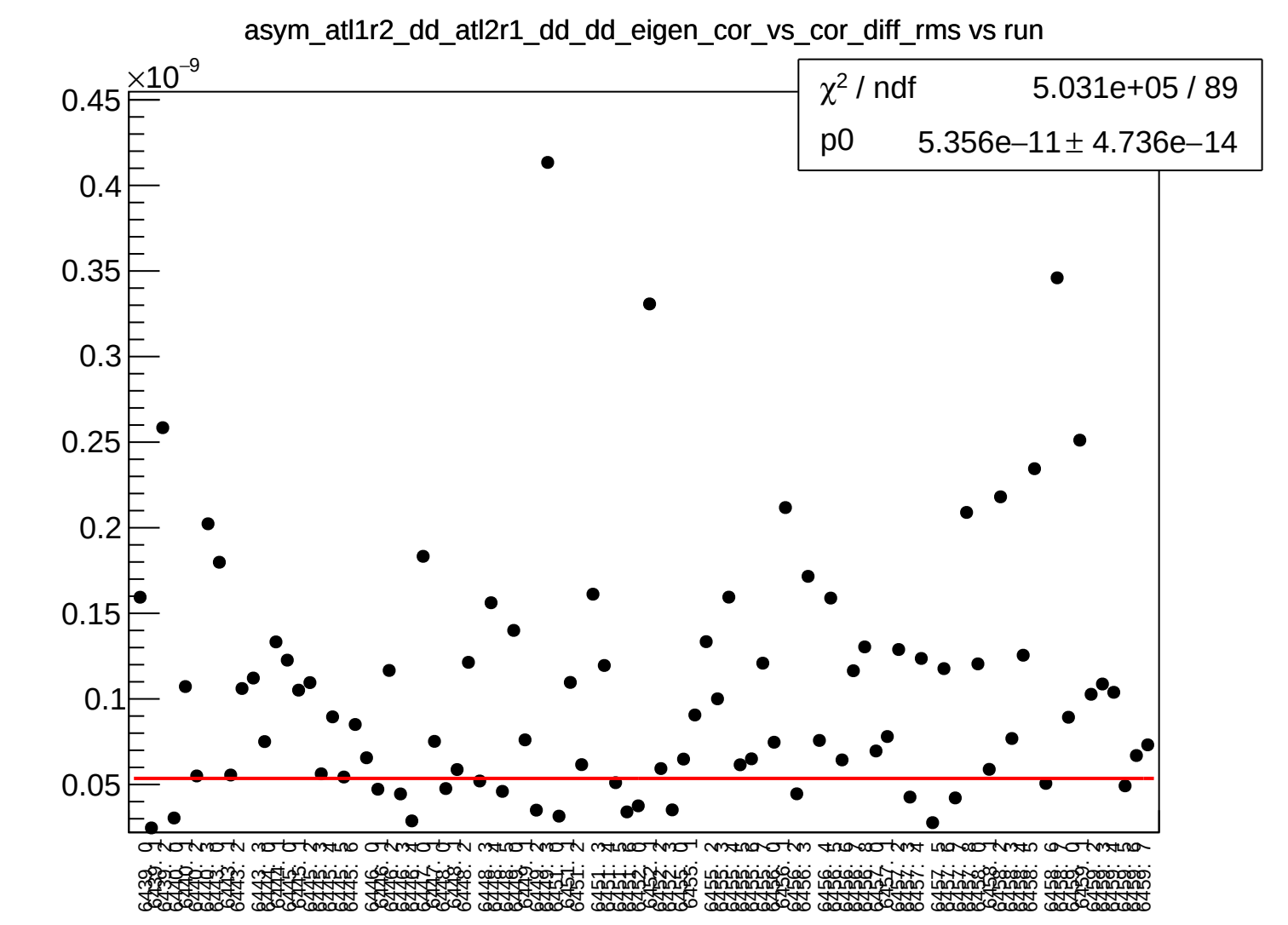

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.259e+04 / 89
p0 215.5 ± 0.1634
450
400
350
300
250
200
150

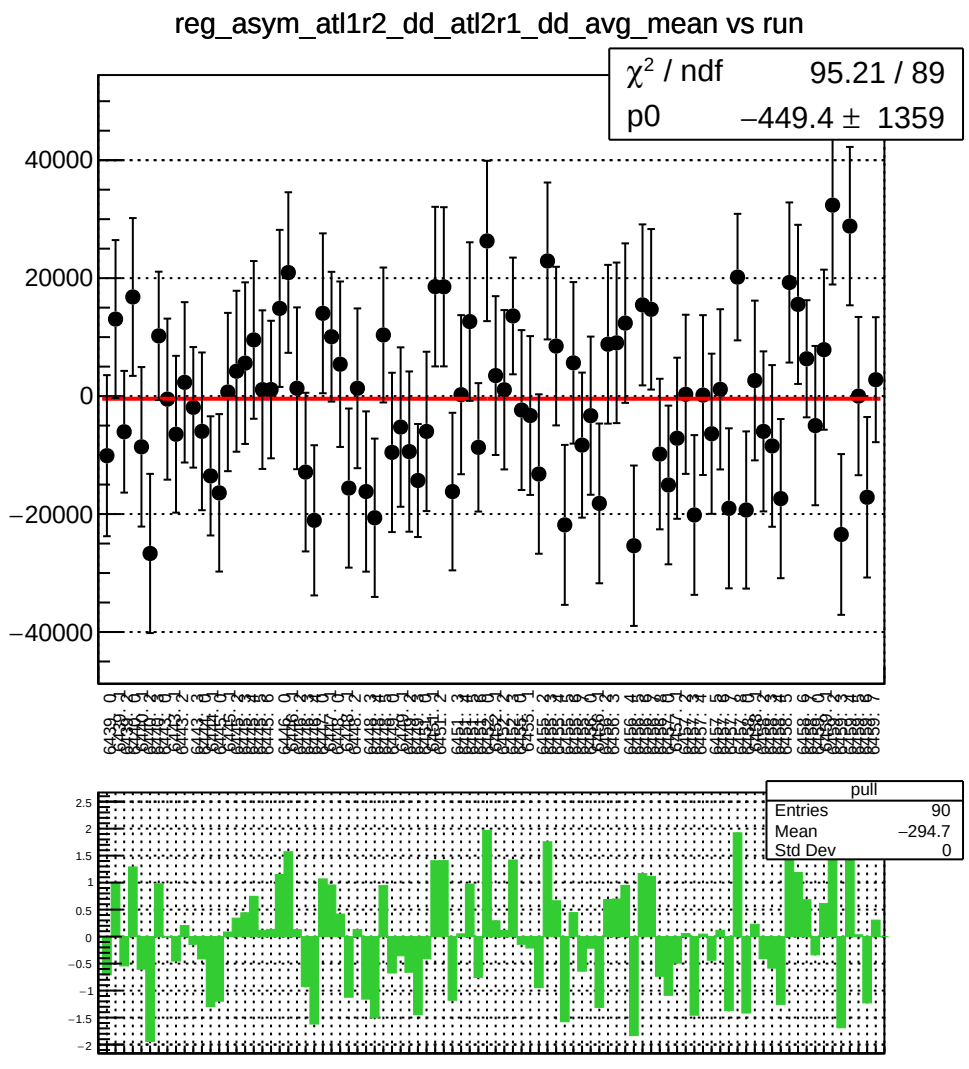

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.11 / 89
p0 0.134 ± 0.2311
pull
Entries 90
Mean 1035
Std Dev 0
pull1D
Entries 90
Mean 0.004532
Std Dev 0.9781

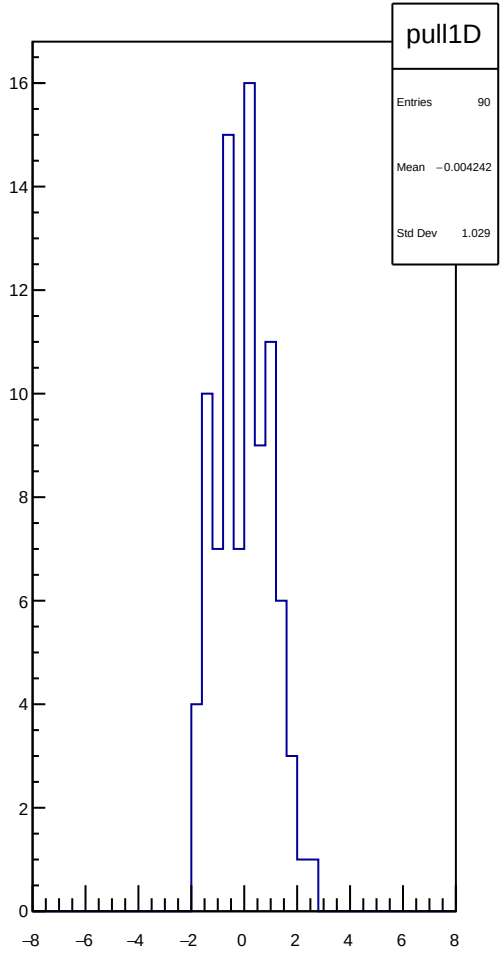

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.259e+04 / 89
p0 215.5 ± 0.1634
450
400
350
300
250
200
150

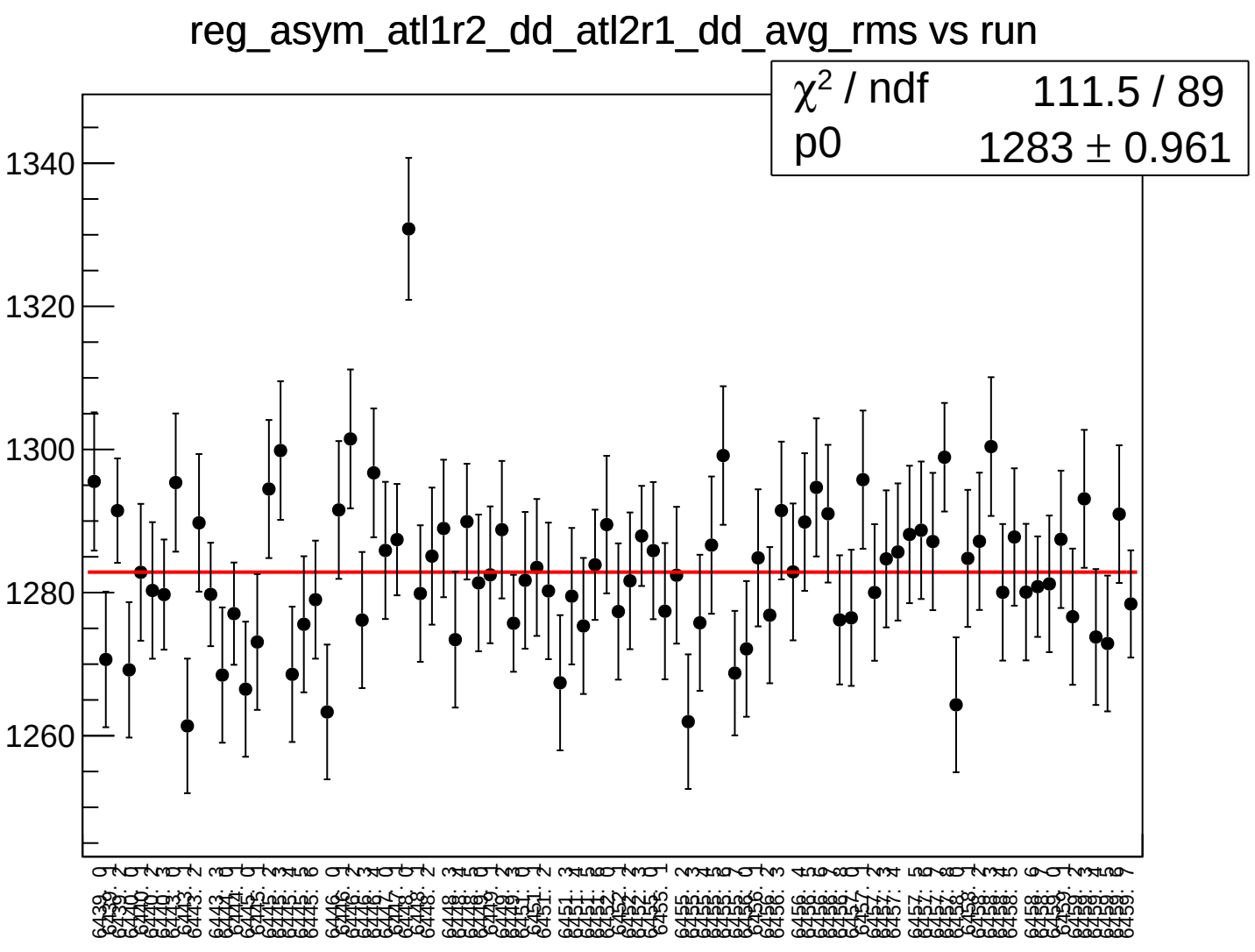

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.95 / 89
p0 5.427e−14 ± 6.697e−14
pull
Entries 90
Mean −116.1
Std Dev 0

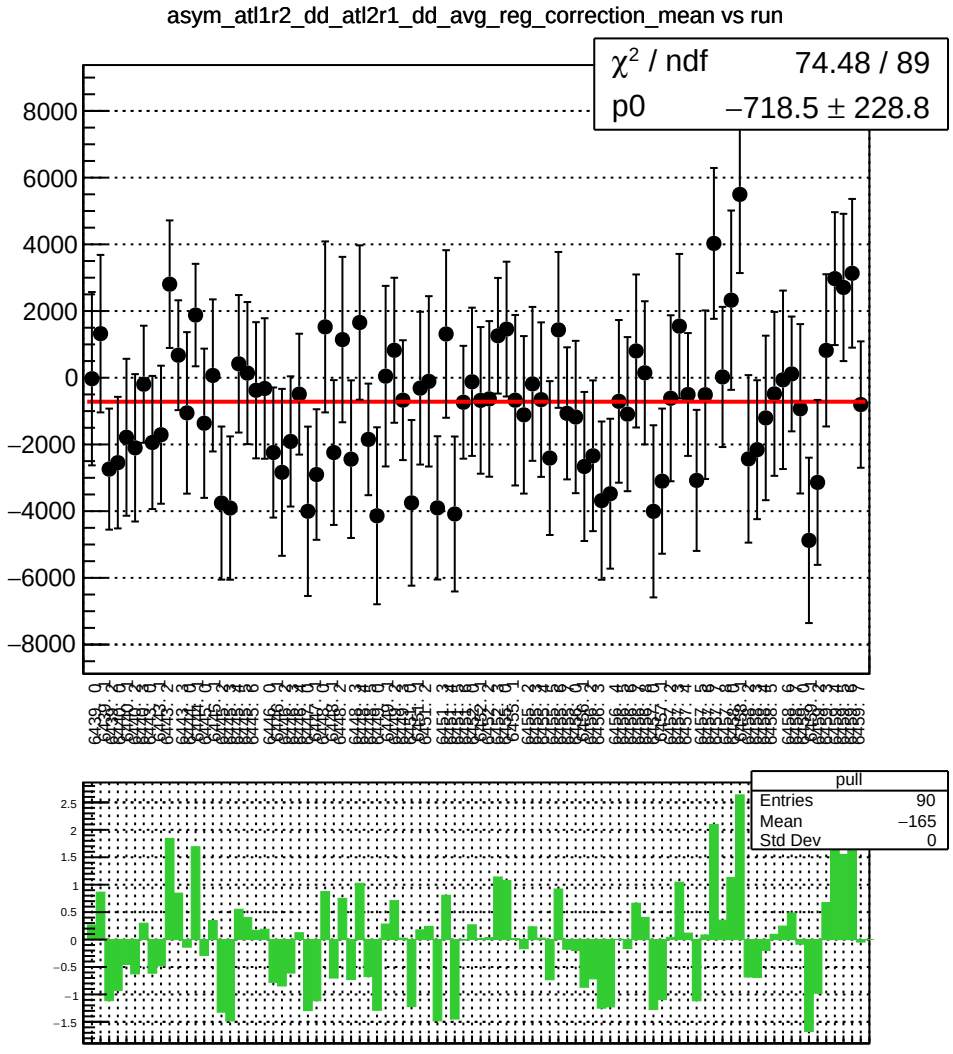

pull1D
Entries 90
Mean −0.006593
Std Dev 1.027

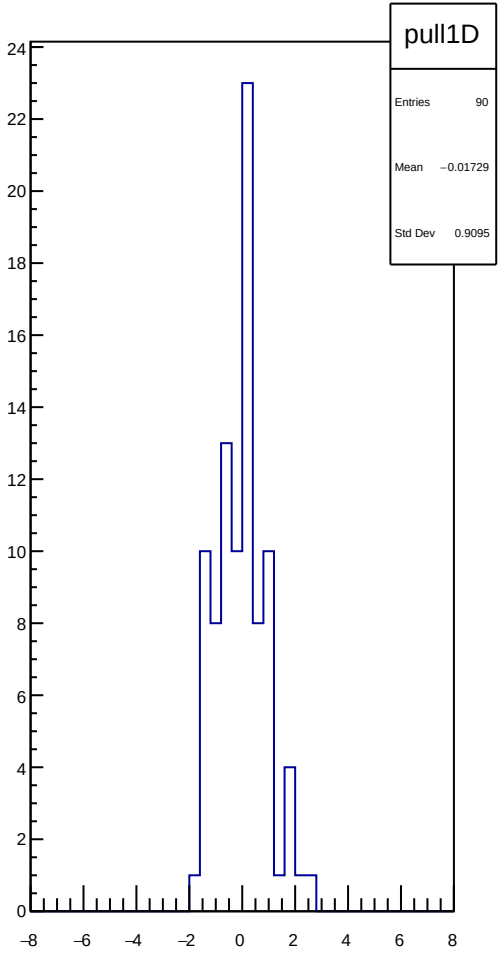

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
χ² / ndf 5.031e+05 / 89
p0 5.356e−11 ± 4.736e−14

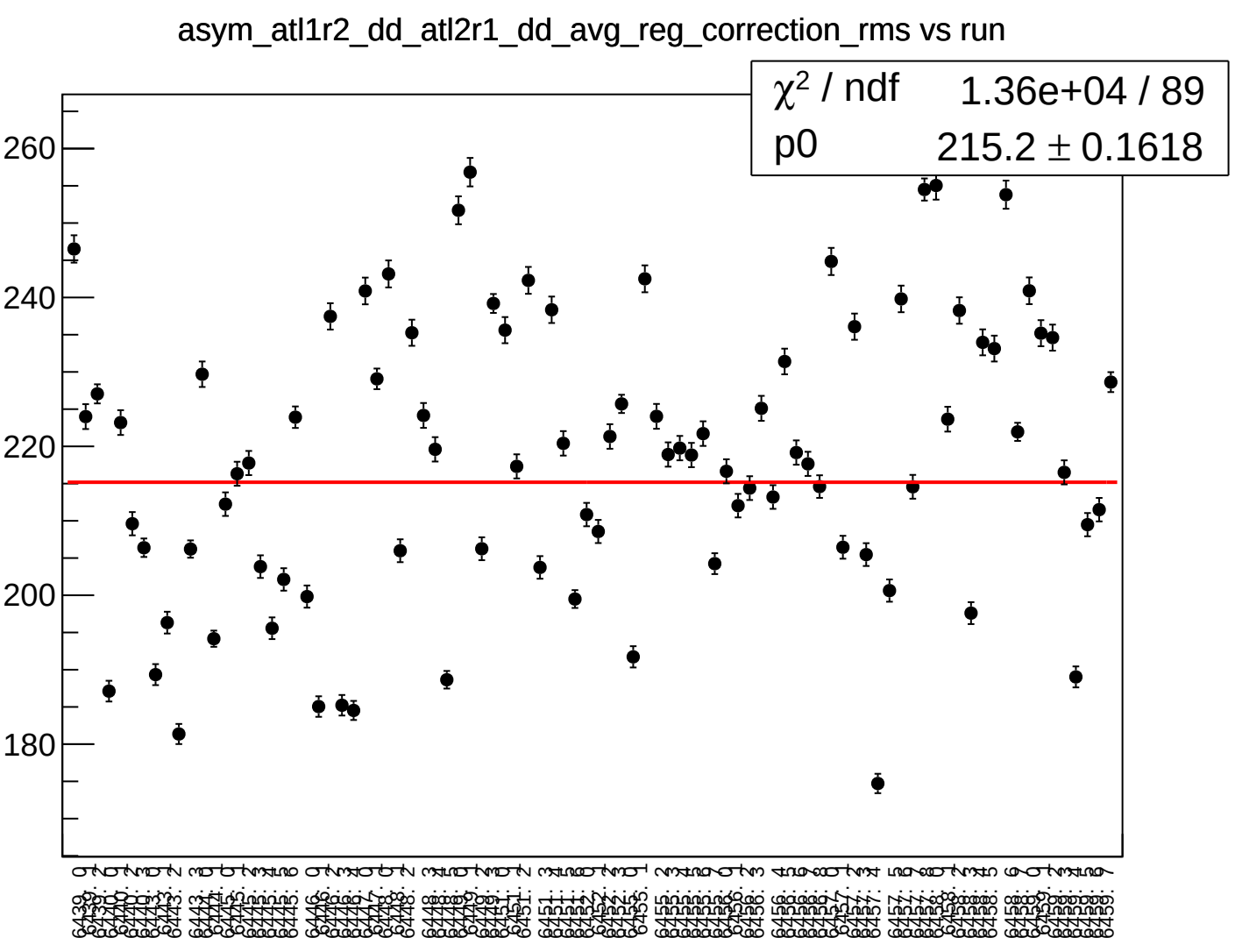

reg_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 95.21 / 89
p0 −449.4 ± 1359
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −294.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

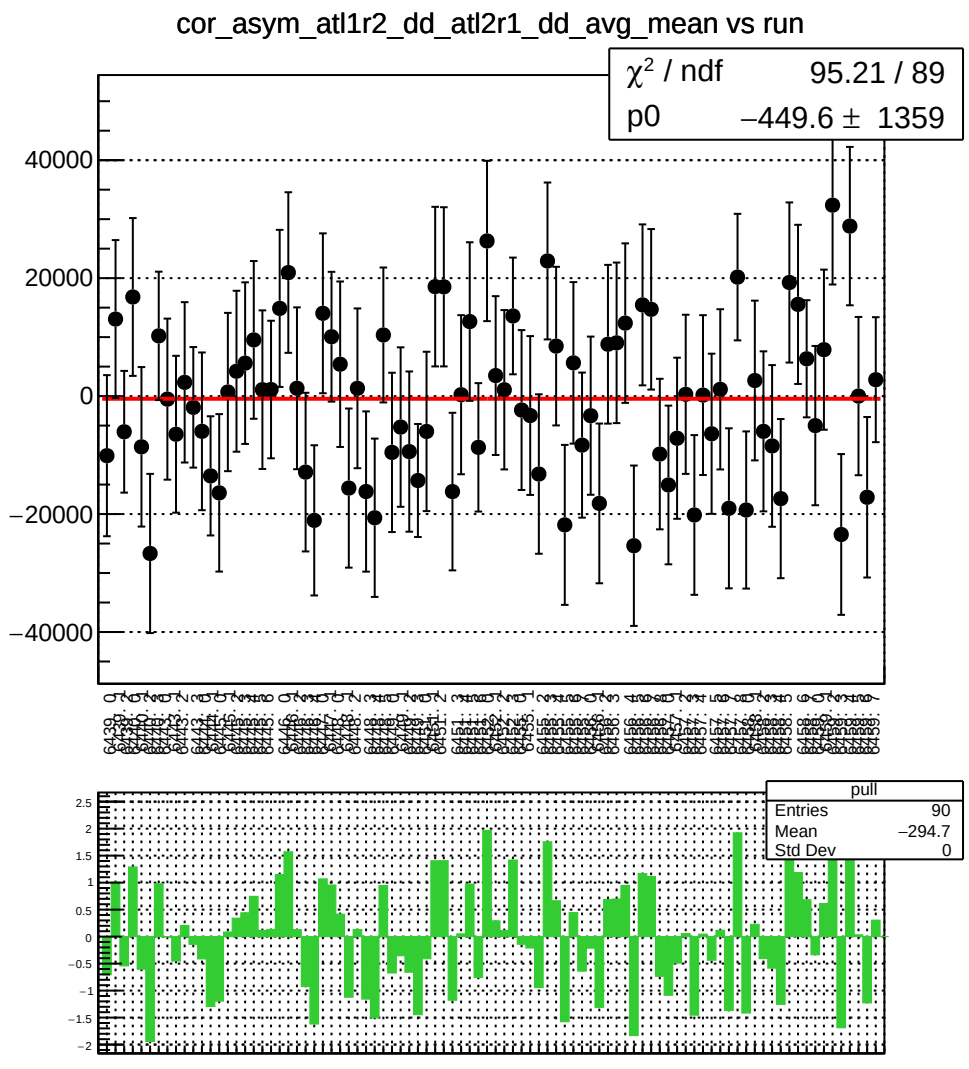

pull1D
Entries 90
Mean −0.004242
Std Dev 1.029
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

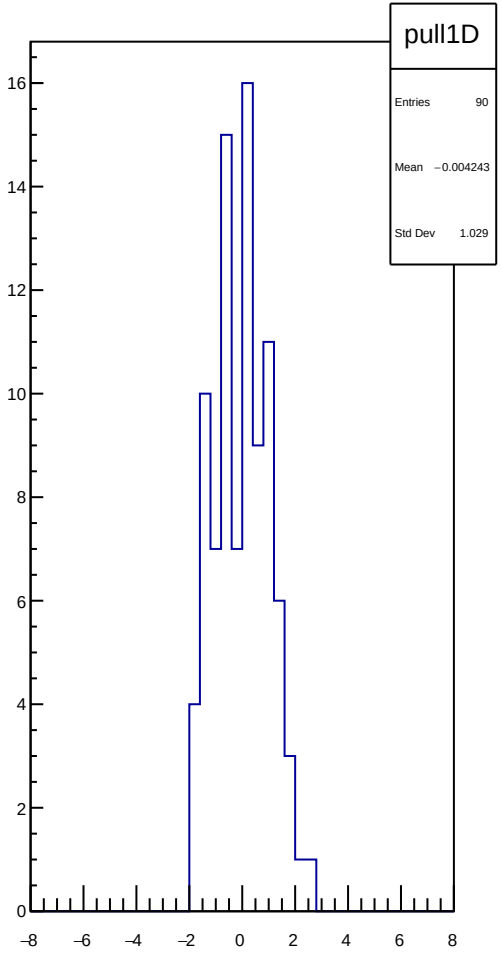

reg_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 111.5 / 89
p0 1283 ± 0.961
1340
1320
1300
1280
1260

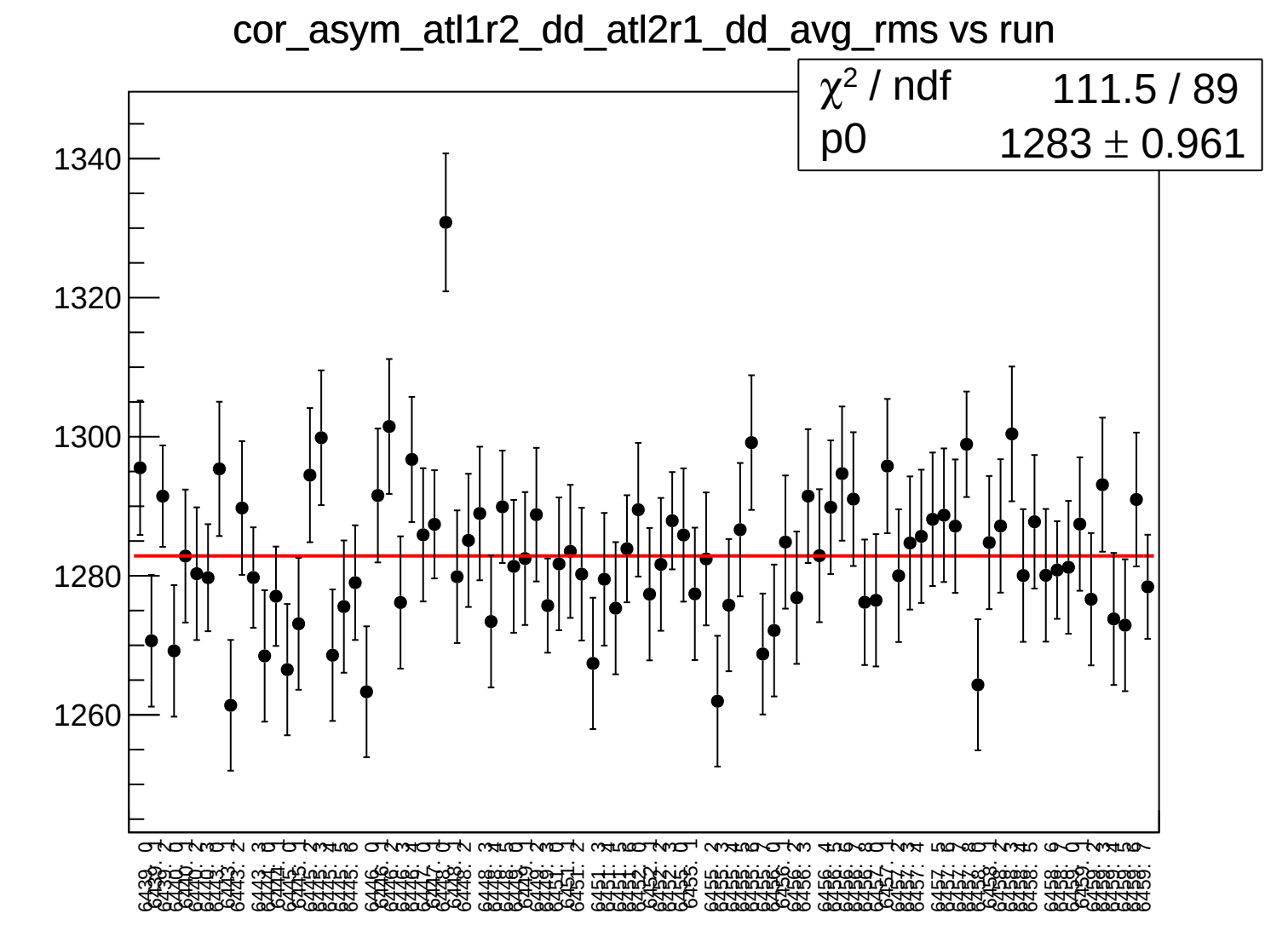

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_mean vs run
χ² / ndf 74.48 / 89
p0 −718.5 ± 228.8
pull
Entries 90
Mean −165
Std Dev 0

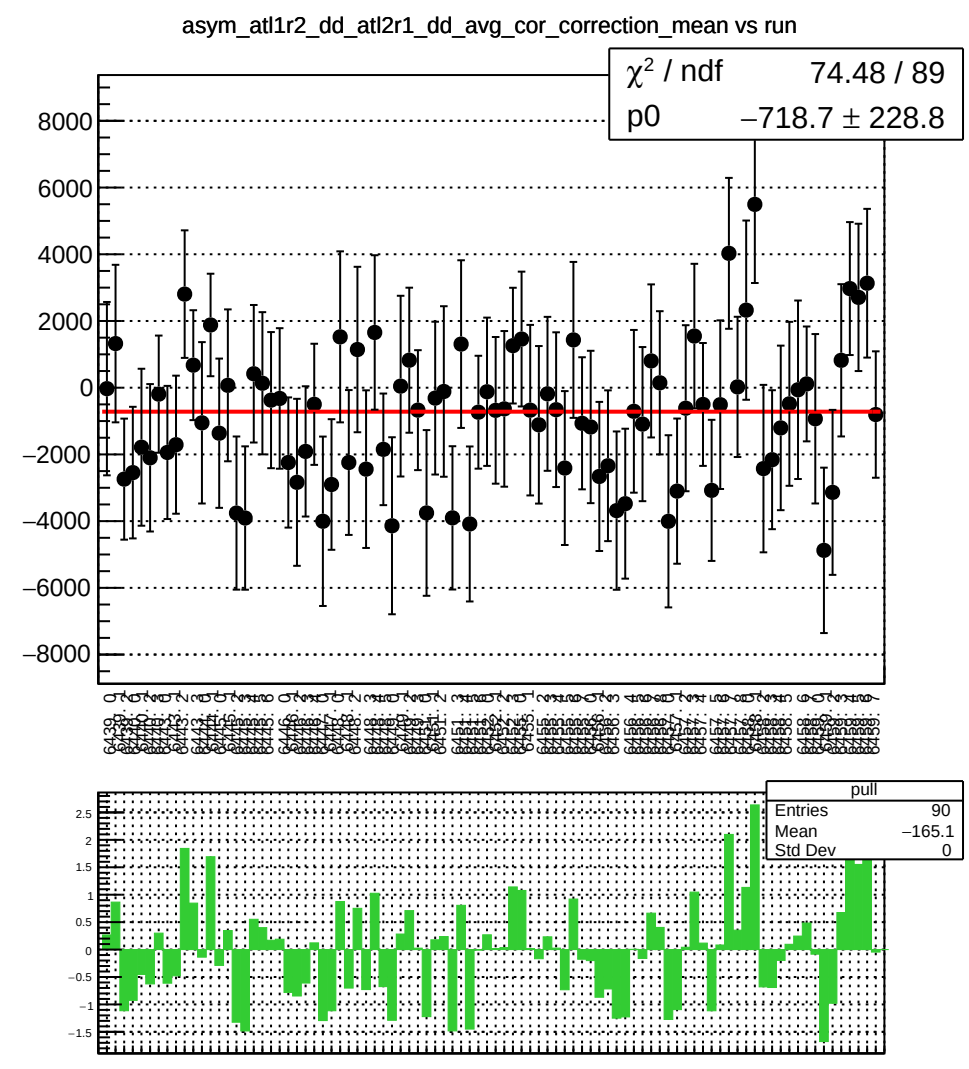

pull1D
Entries 90
Mean −0.01729
Std Dev 0.9095

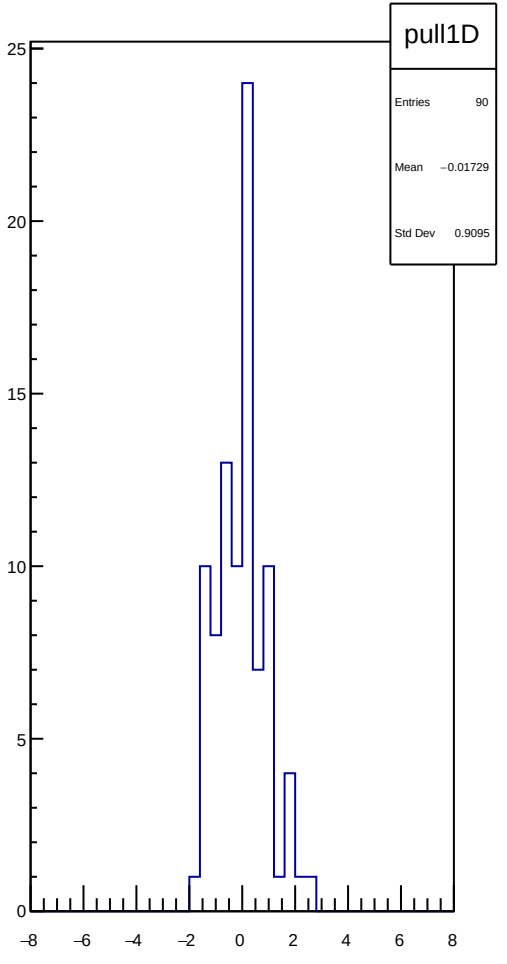

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_rms vs run
χ² / ndf 1.36e+04 / 89
p0 215.2 ± 0.1618
260
240
220
200
180

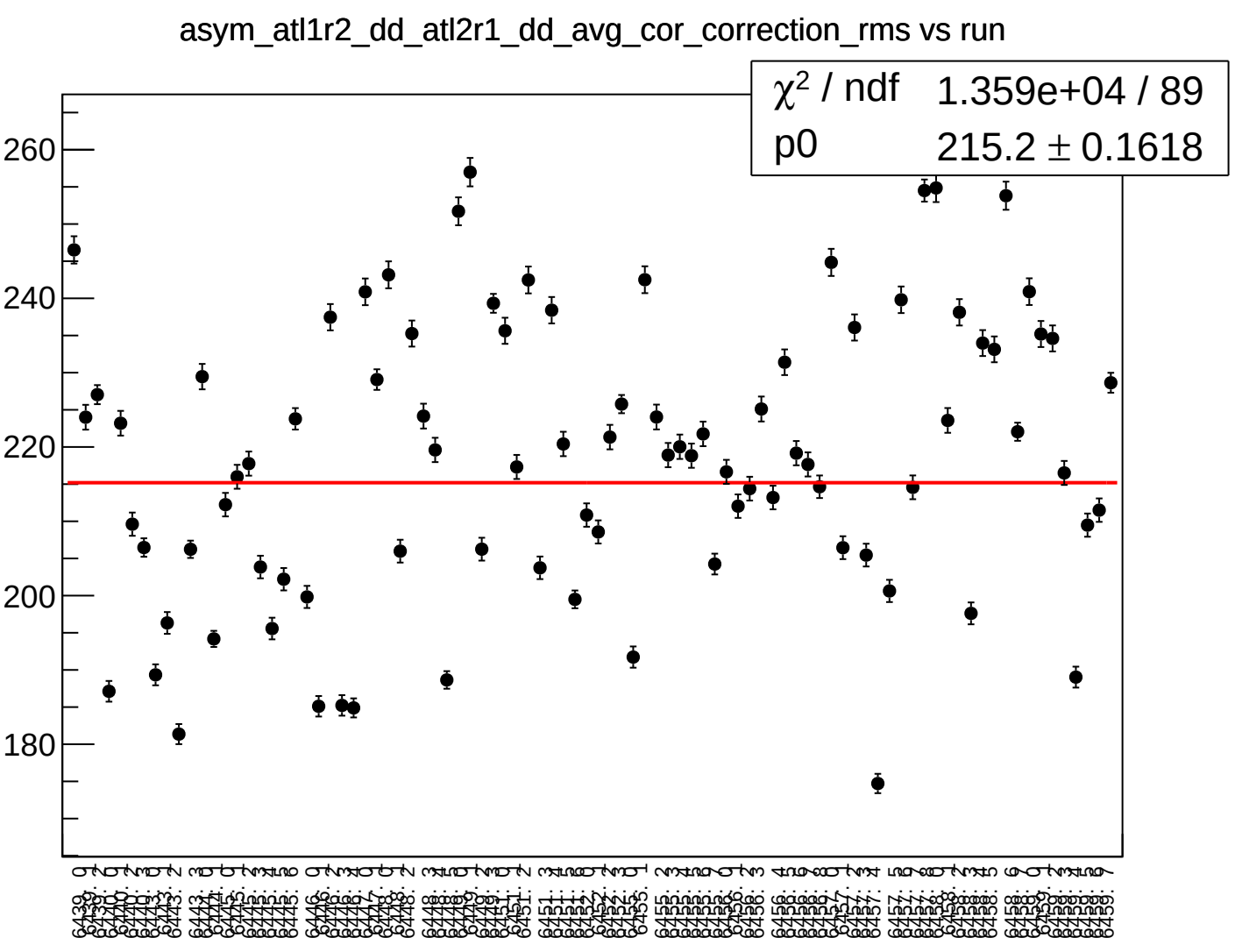

cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 95.21 / 89
p0 −449.6 ± 1359
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −294.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

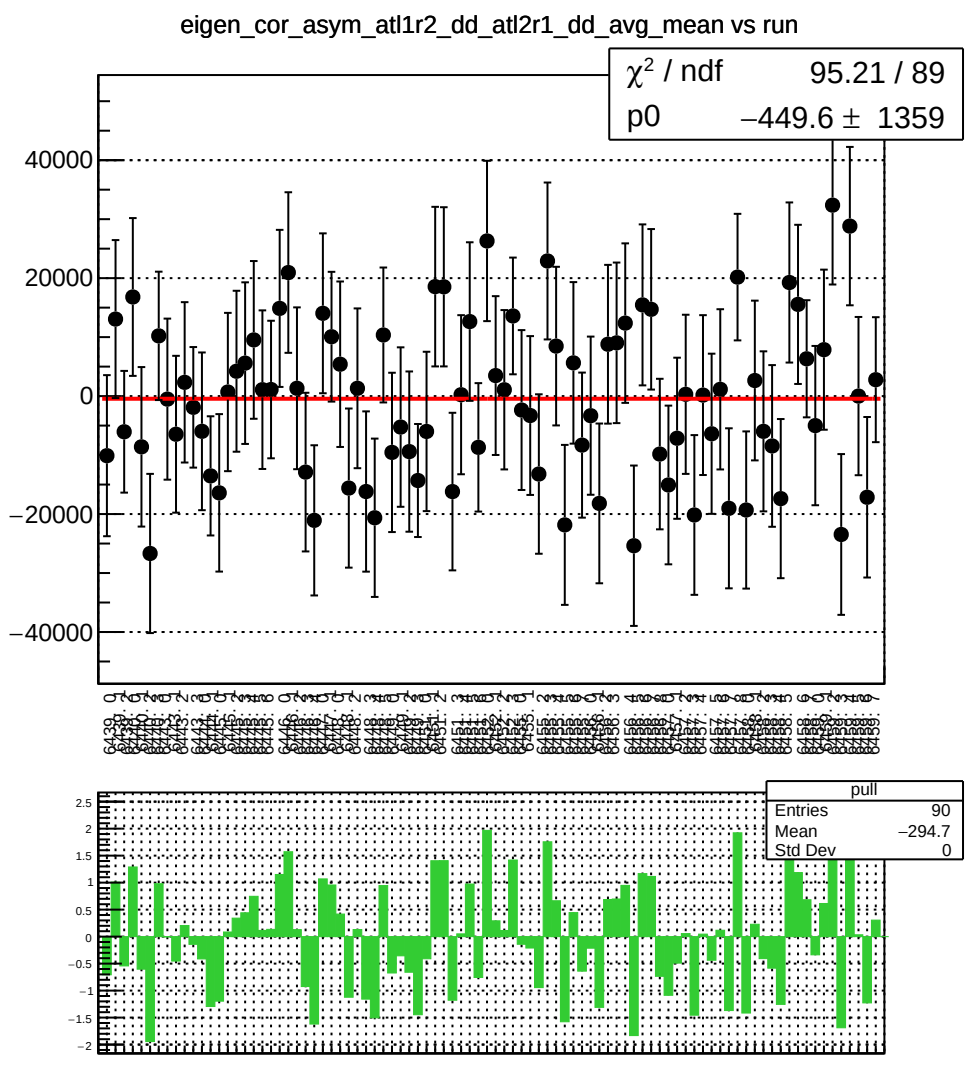

pull1D
Entries 90
Mean −0.004243
Std Dev 1.029
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

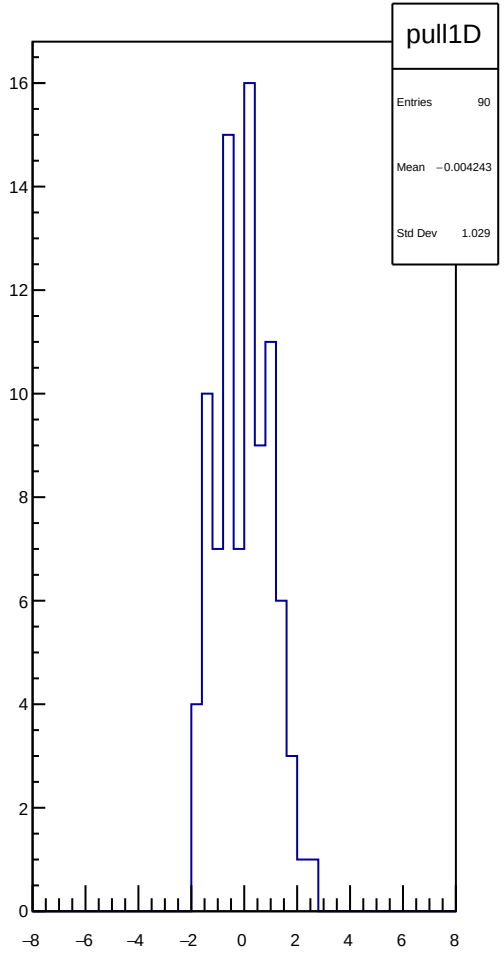

cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 111.5 / 89
p0 1283 ± 0.961
1340
1320
1300
1280
1260

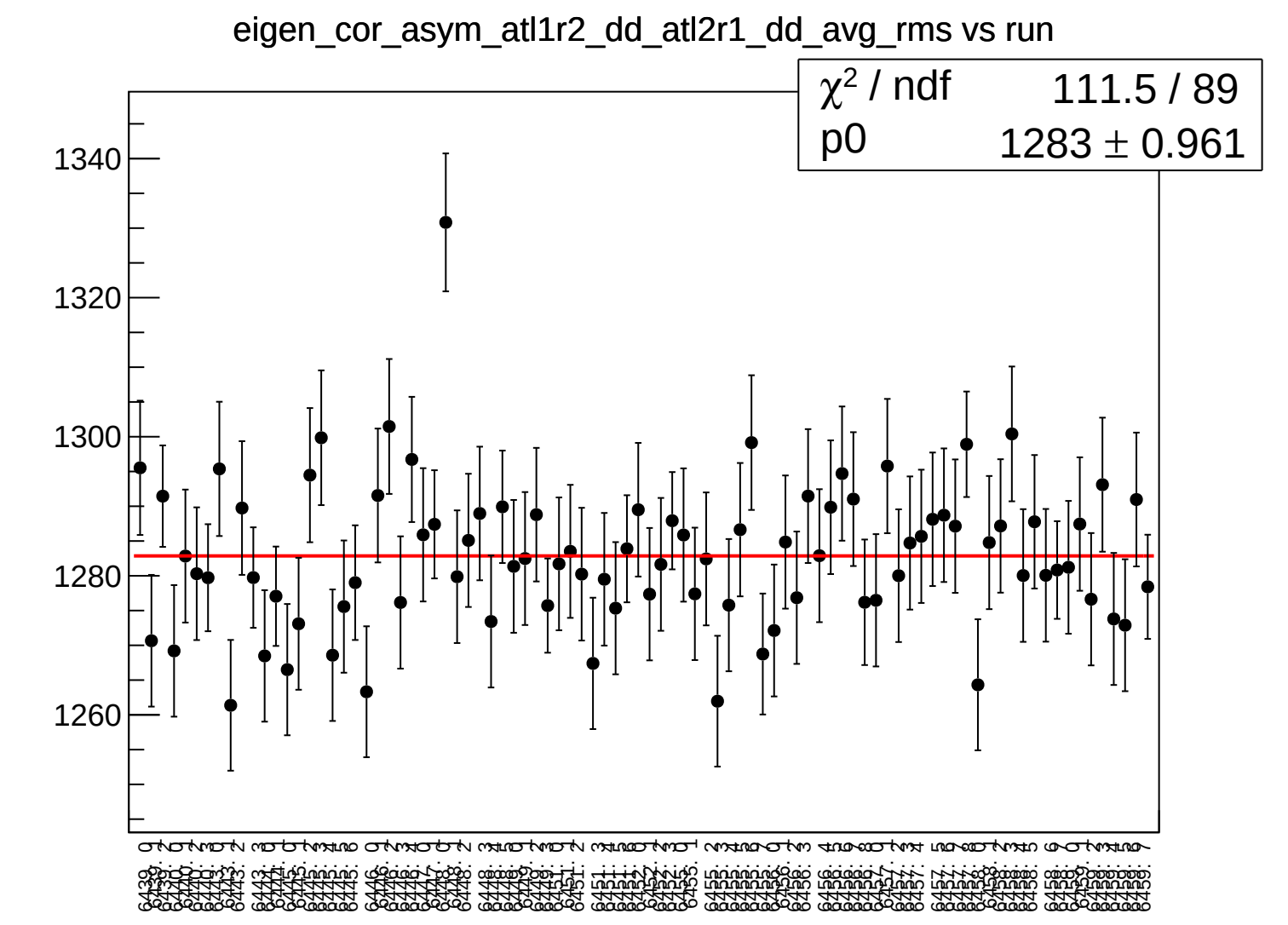

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_mean vs run
χ² / ndf 74.48 / 89
p0 −718.7 ± 228.8
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 90
Mean −165.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

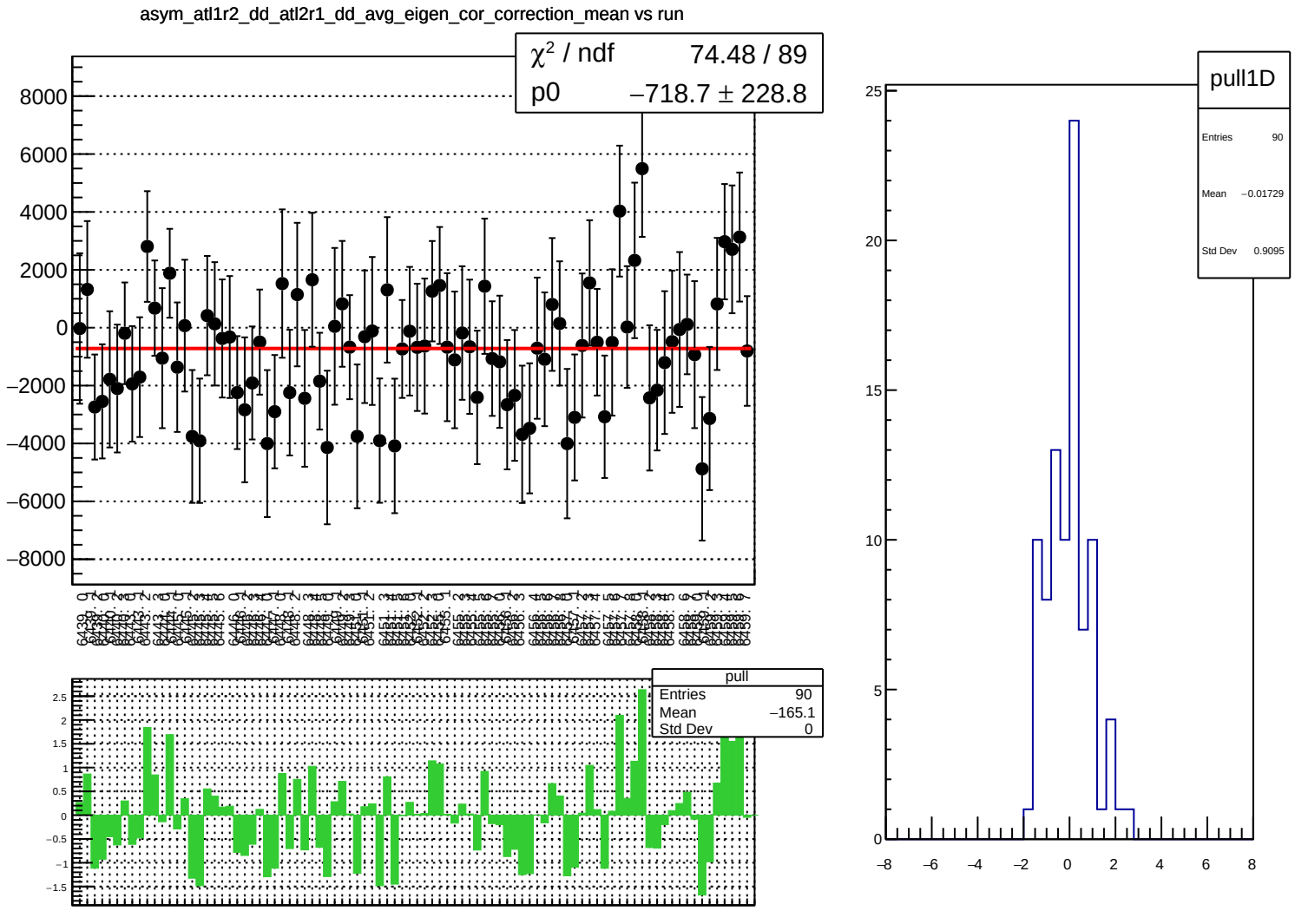

pull1D
Entries 90
Mean −0.01729
Std Dev 0.9095
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

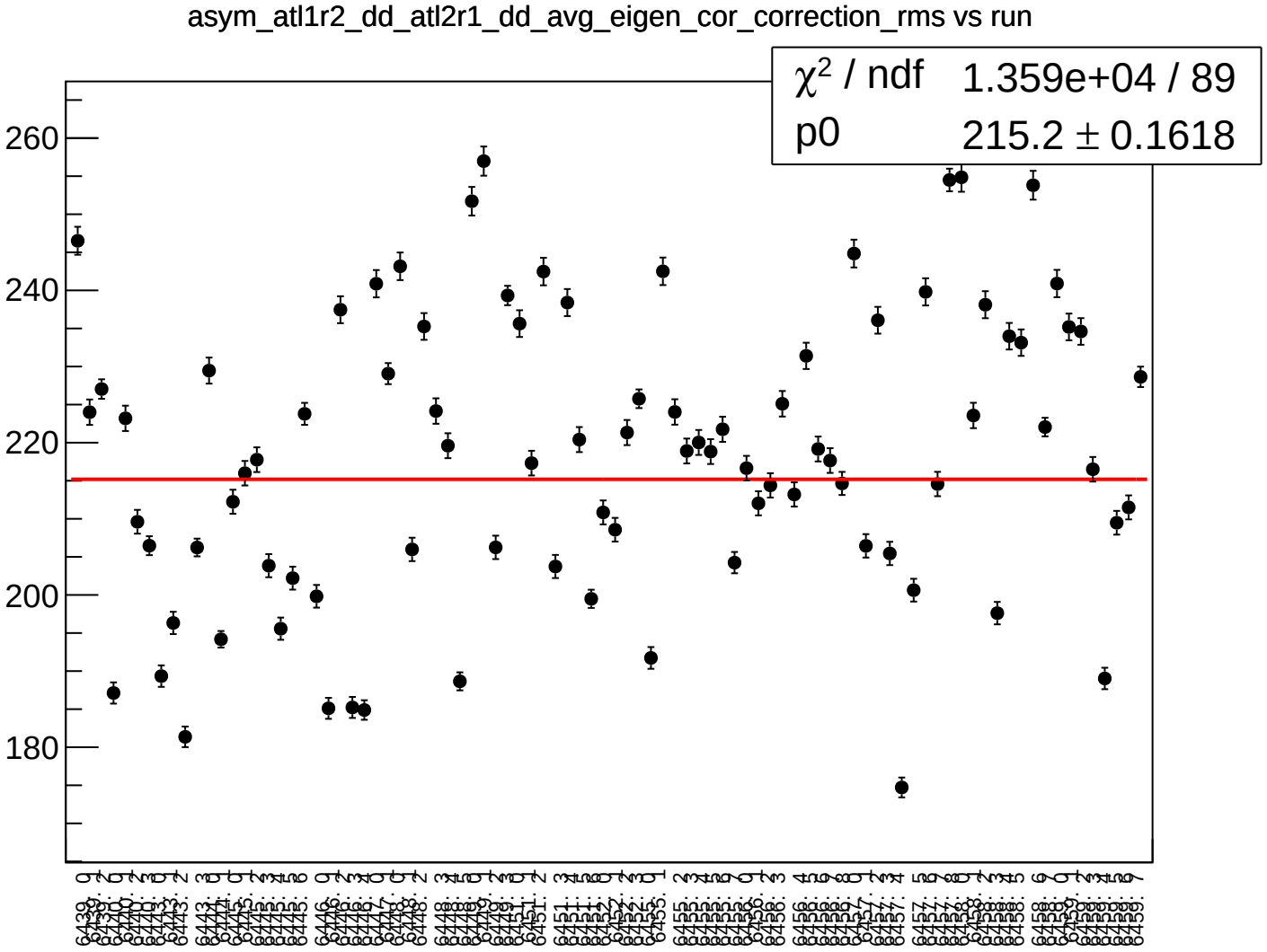

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_rms vs run
χ² / ndf 1.359e+04 / 89
p0 215.2 ± 0.1618
260
240
220
200
180

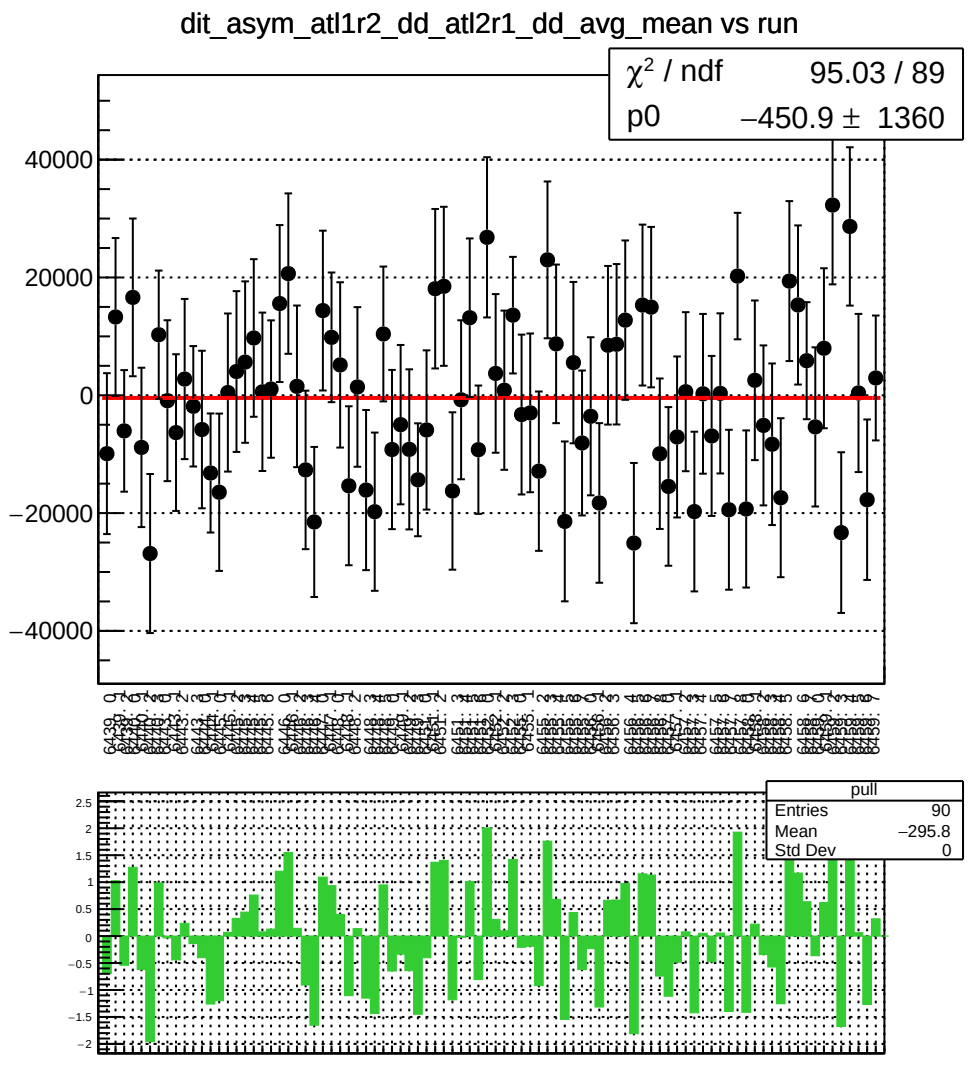

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 95.21 / 89
p0 −449.6 ± 1359
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −294.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

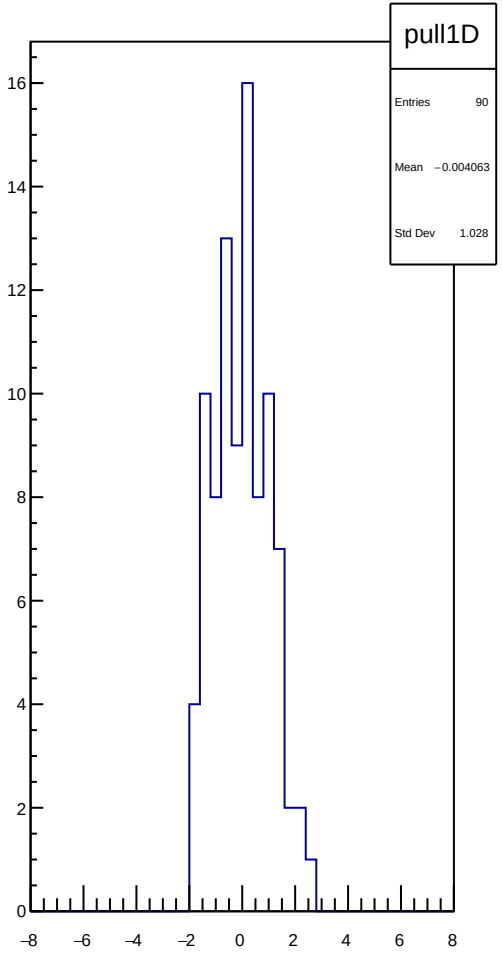

pull1D
Entries 90
Mean −0.004243
Std Dev 1.029
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

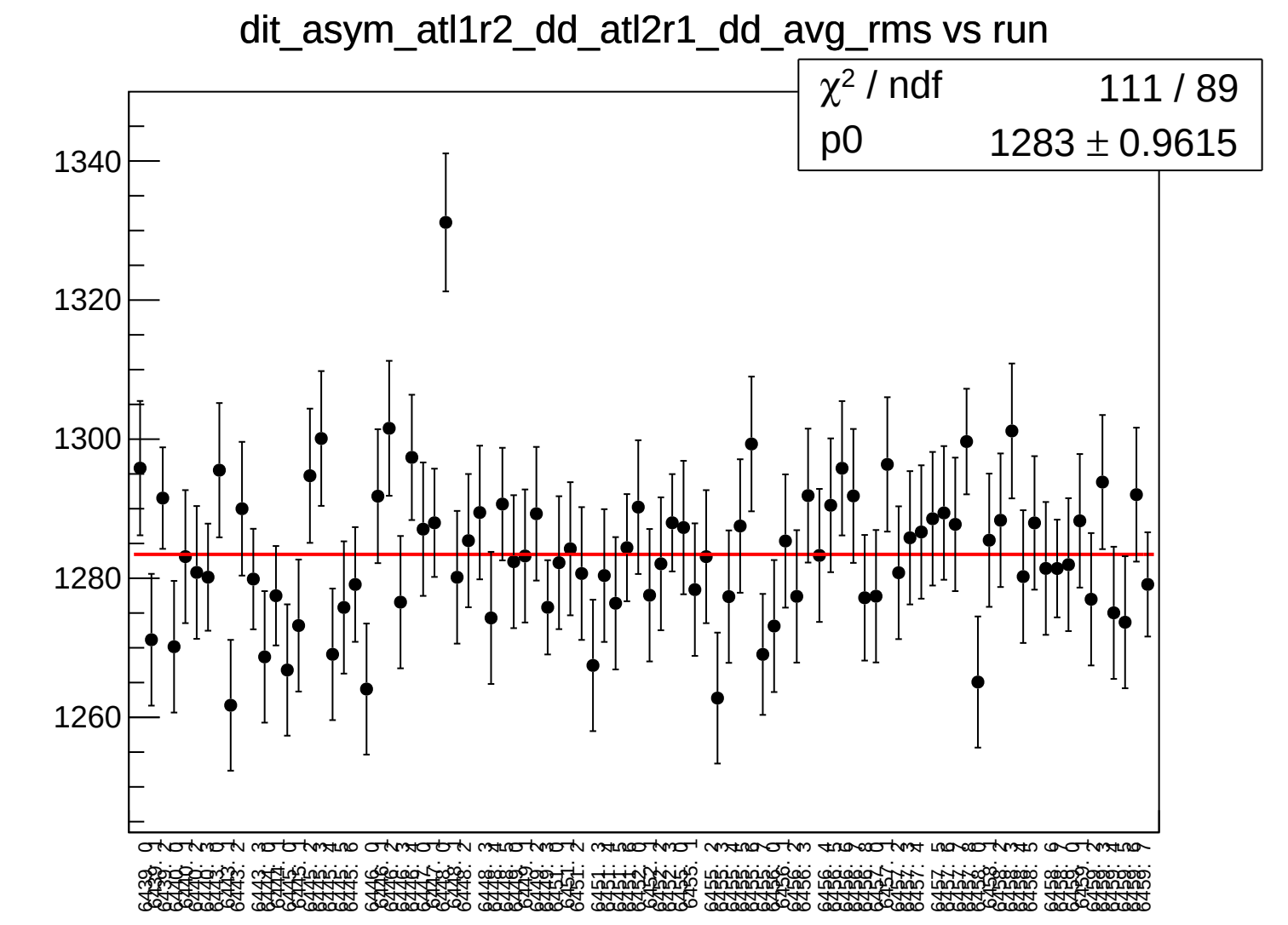

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 111.5 / 89
p0 1283 ± 0.961
1340
1320
1300
1280
1260

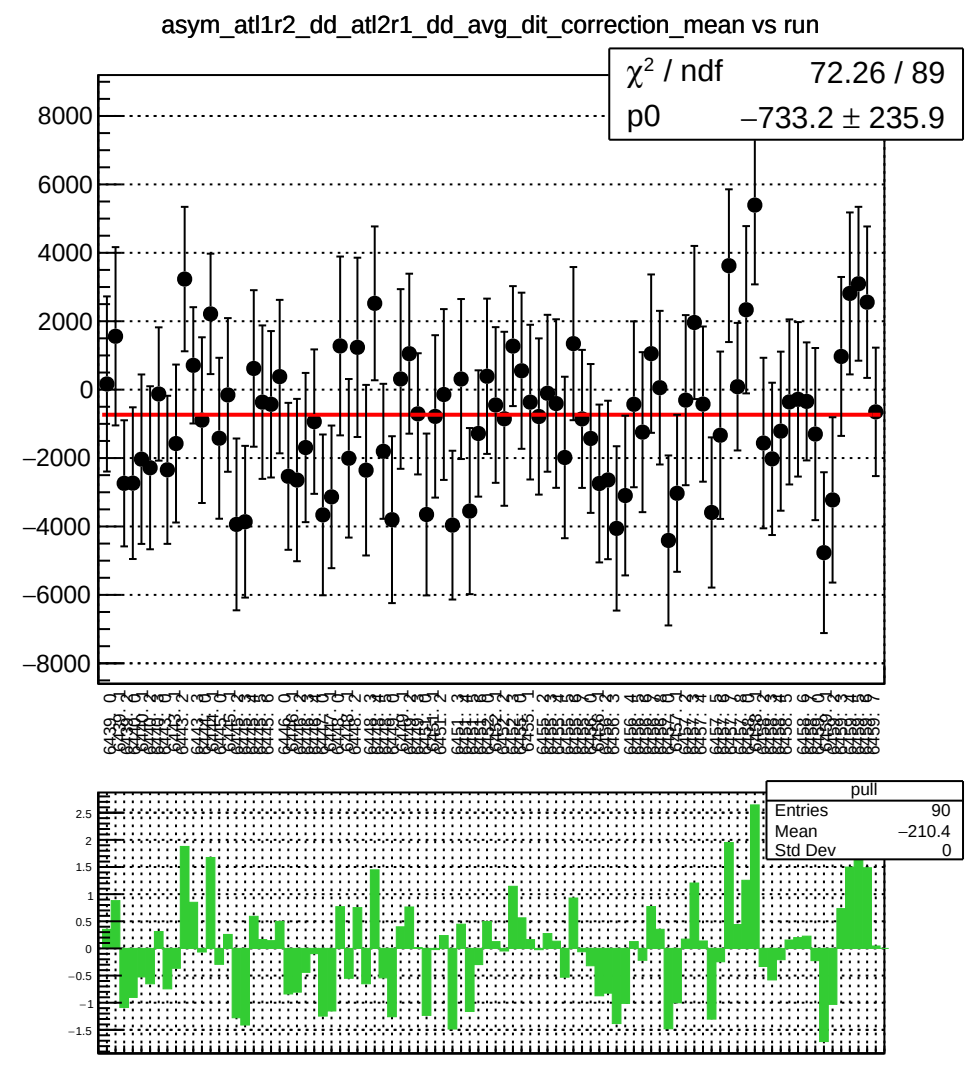

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 74.48 / 89
p0 −718.7 ± 228.8
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 90
Mean −165.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 90
Mean −0.01729
Std Dev 0.9095
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

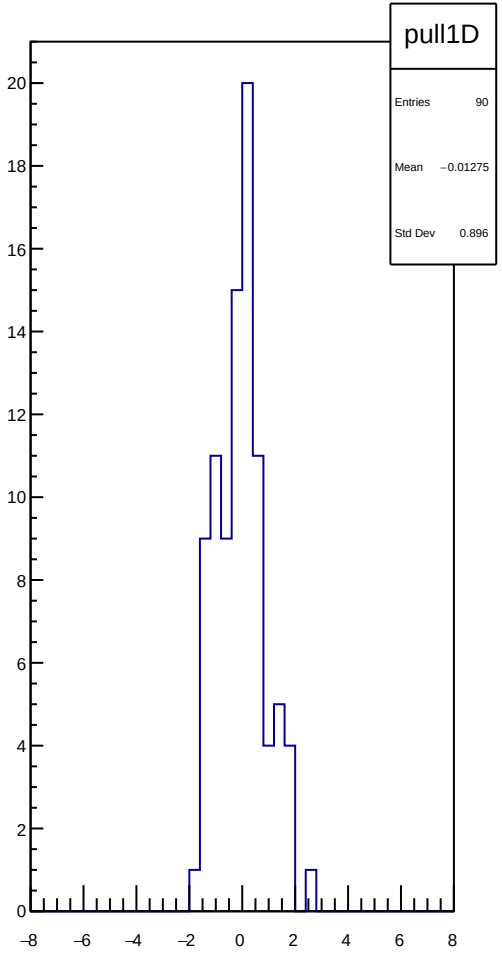

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.359e+04 / 89
p0 215.2 ± 0.1618
260
240
220
200
180

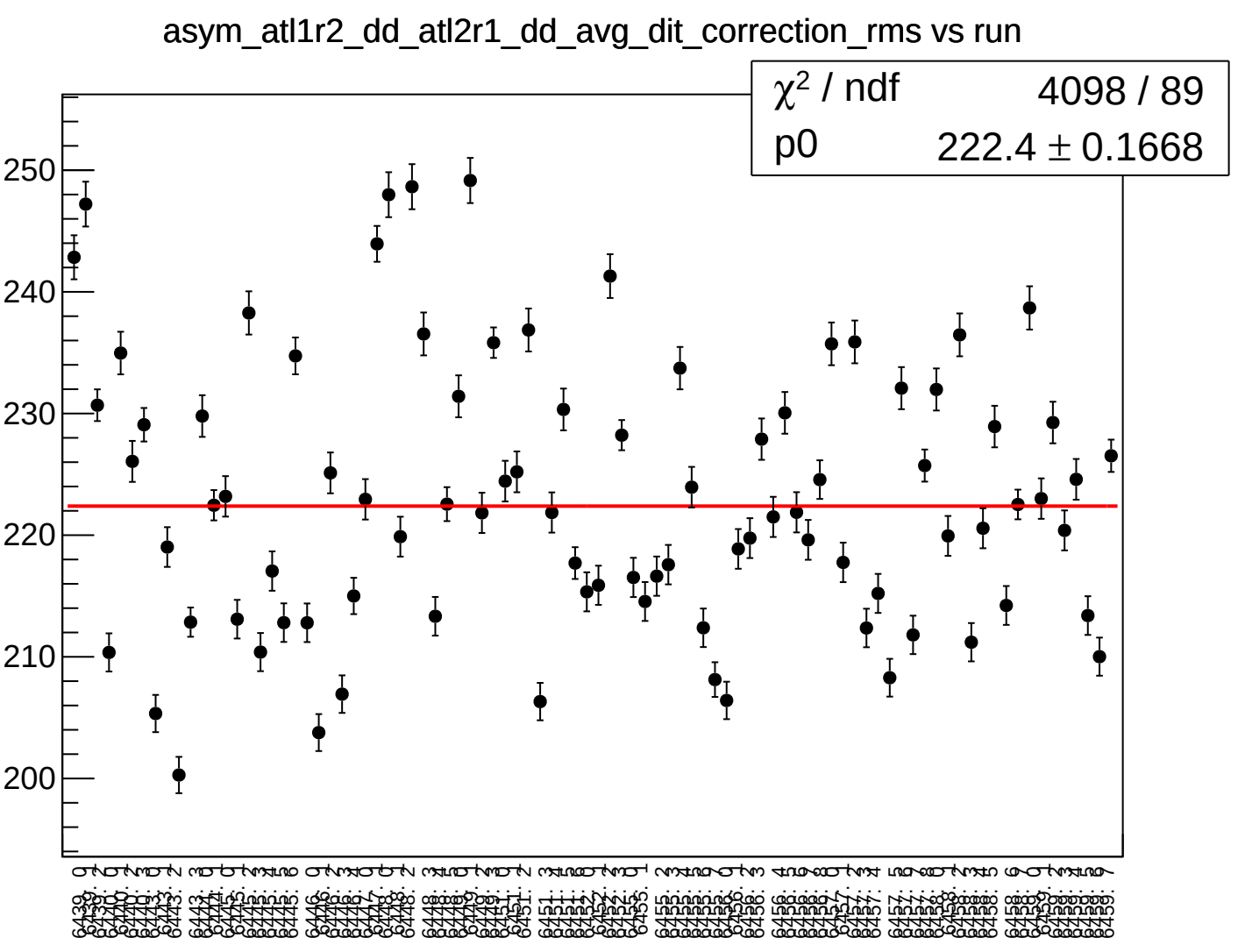

dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 95.03 / 89
p0 −450.9 ± 1360
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −295.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

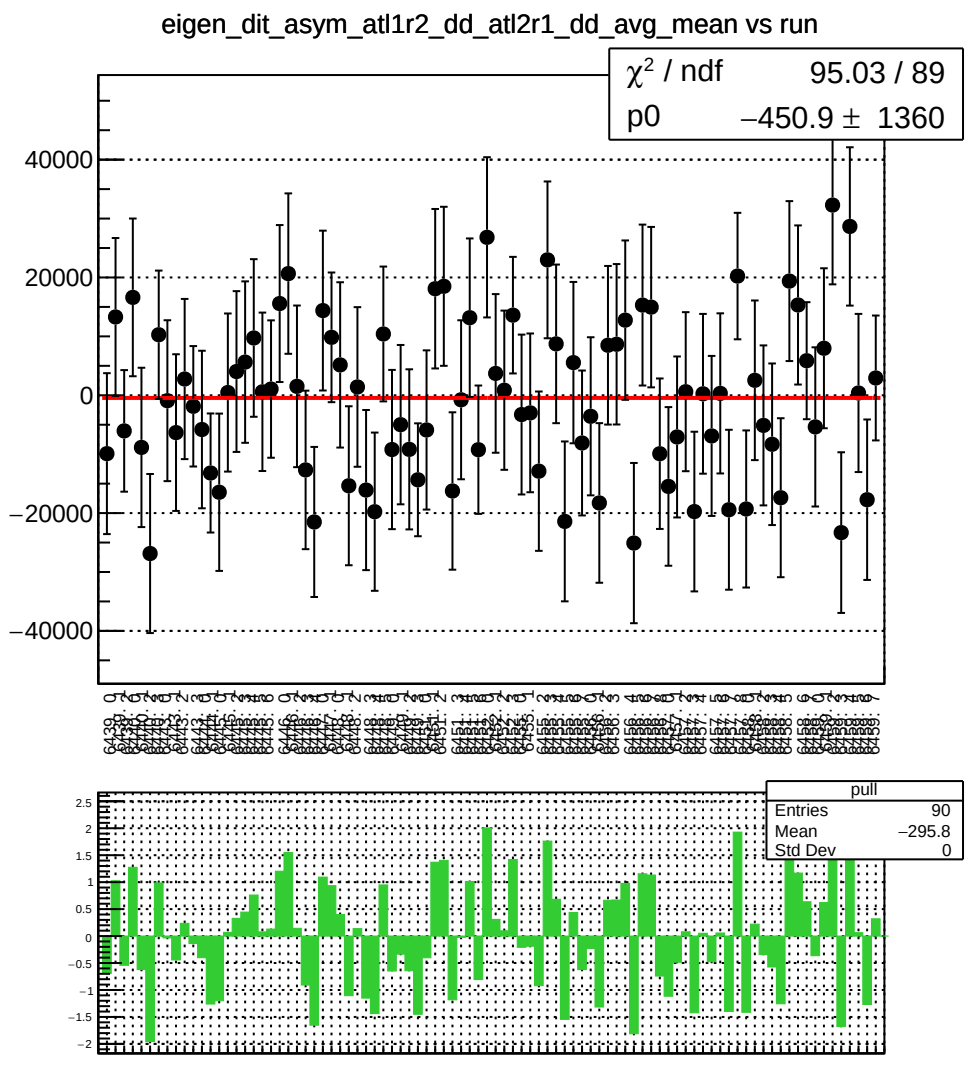

pull1D
Entries 90
Mean −0.004063
Std Dev 1.028
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

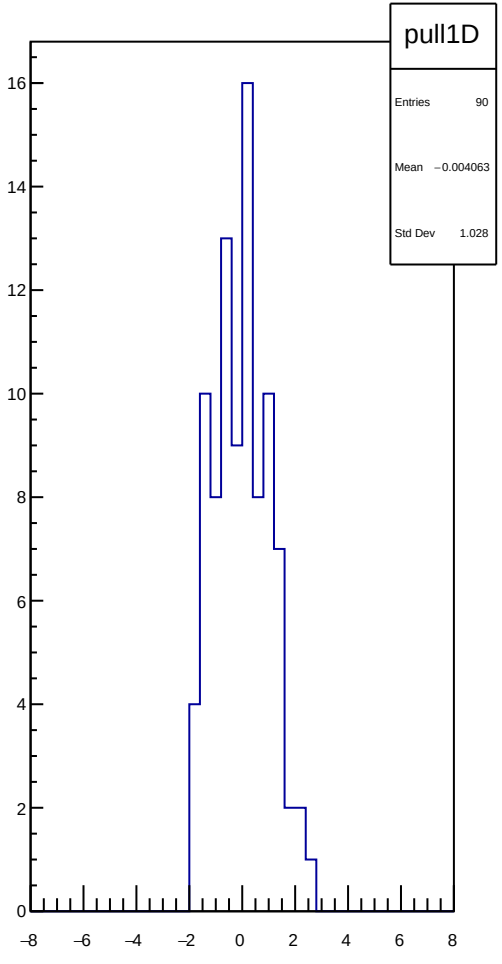

dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 111 / 89
p0 1283 ± 0.9615
1340
1320
1300
1280
1260

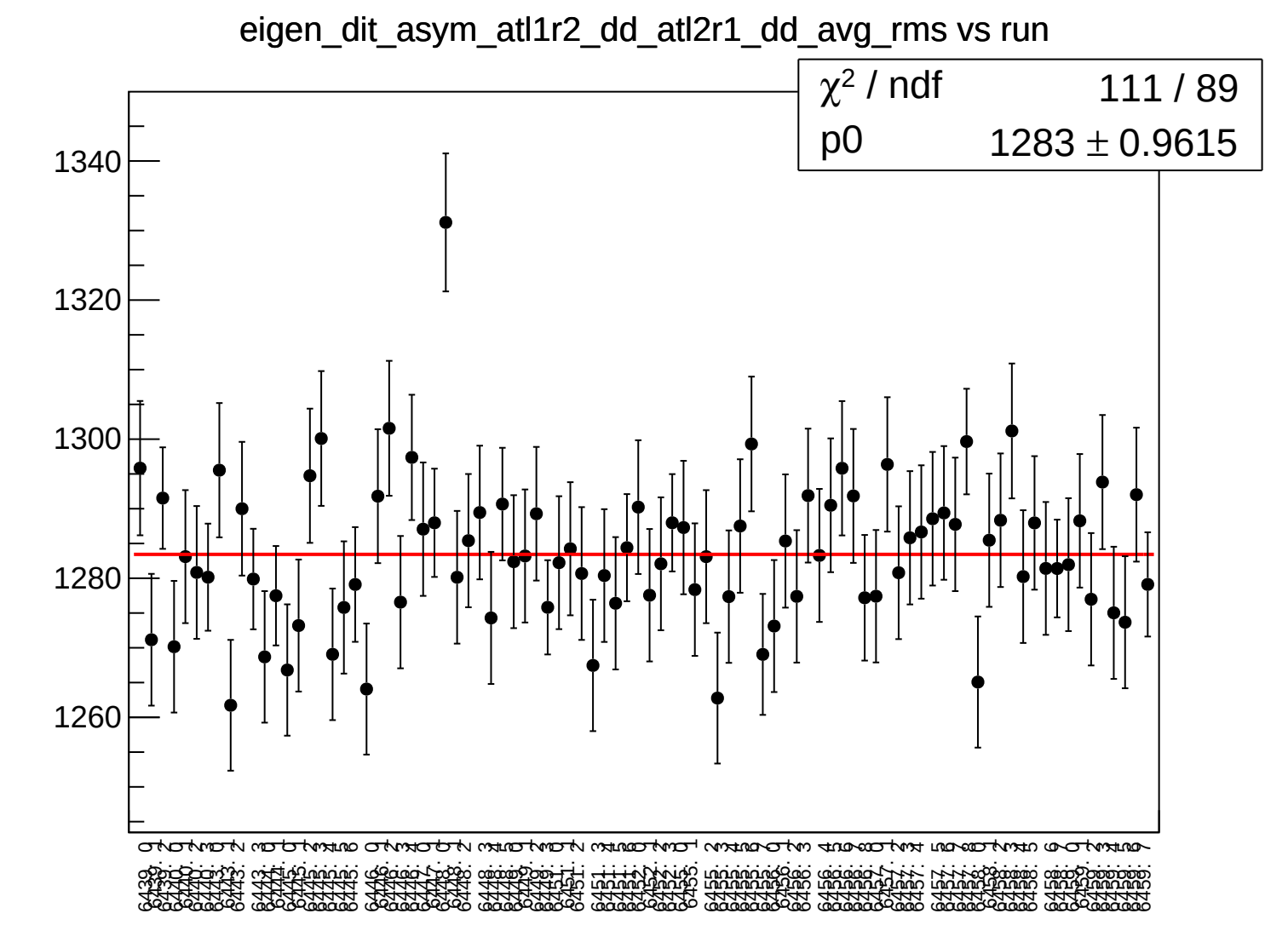

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_mean vs run
χ² / ndf 72.26 / 89
p0 −733.2 ± 235.9
pull
Entries 90
Mean −210.4
Std Dev 0

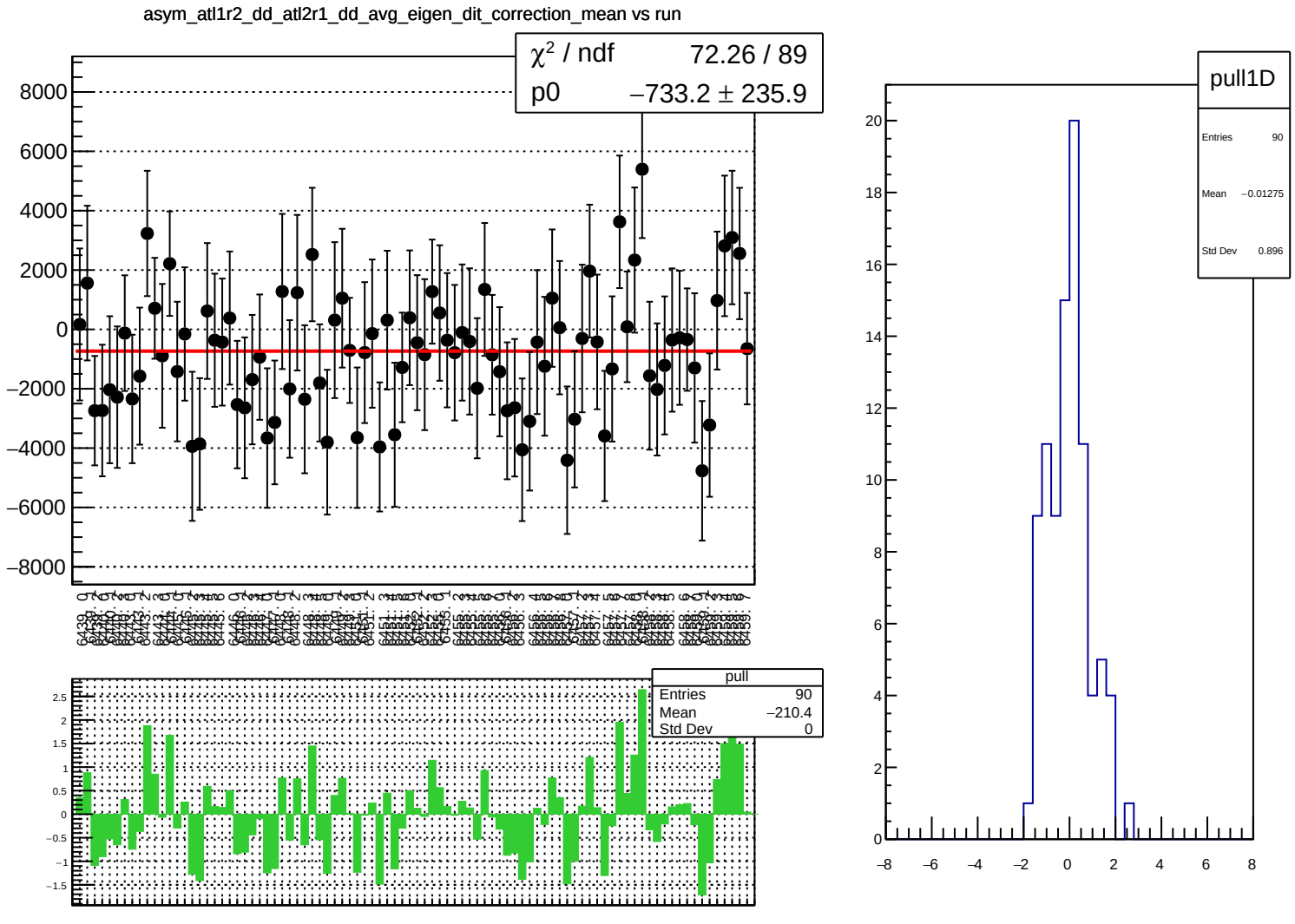

pull1D
Entries 90
Mean −0.01275
Std Dev 0.896

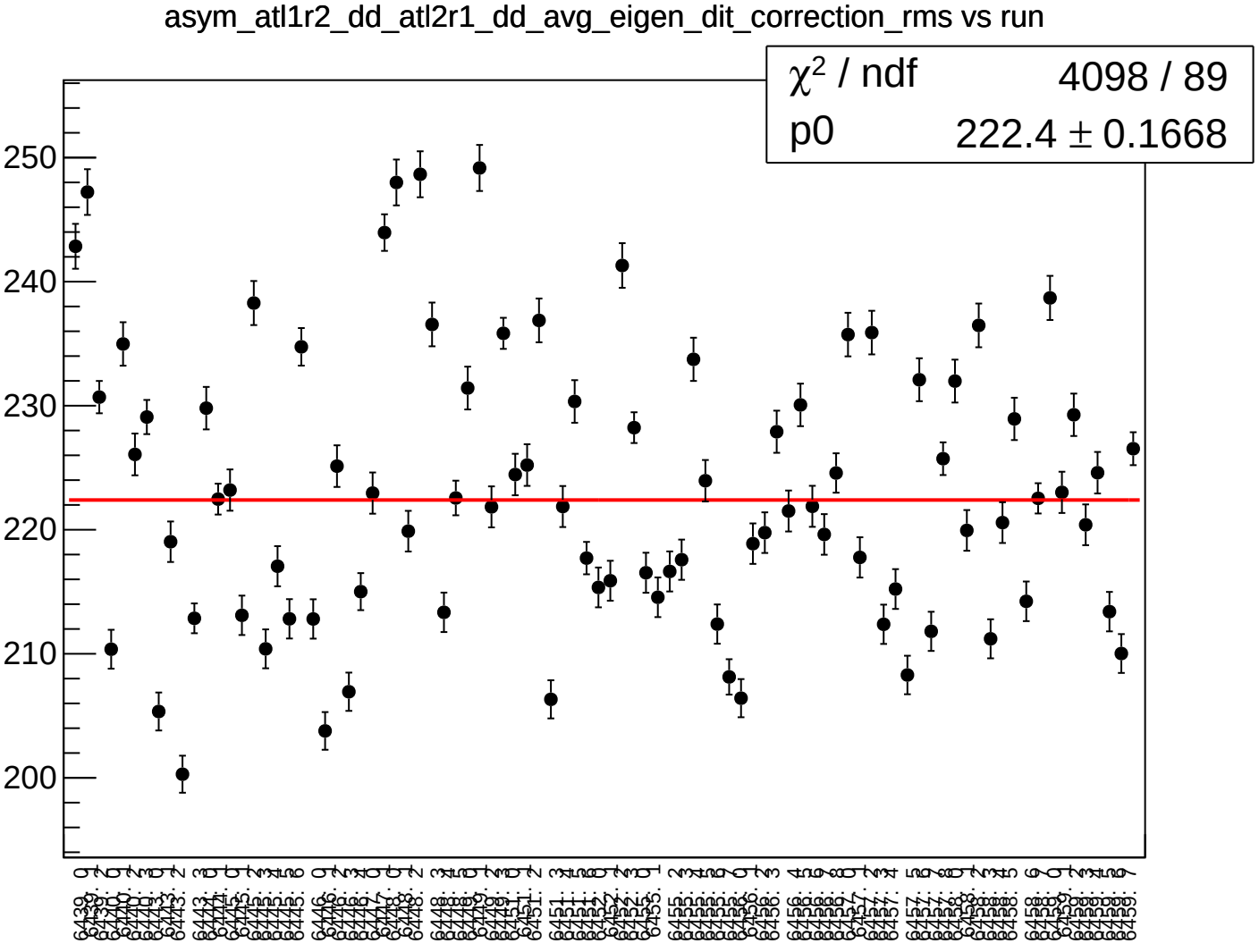

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_rms vs run
χ² / ndf 4098 / 89
p0 222.4 ± 0.1668
250
240
230
220
210
200

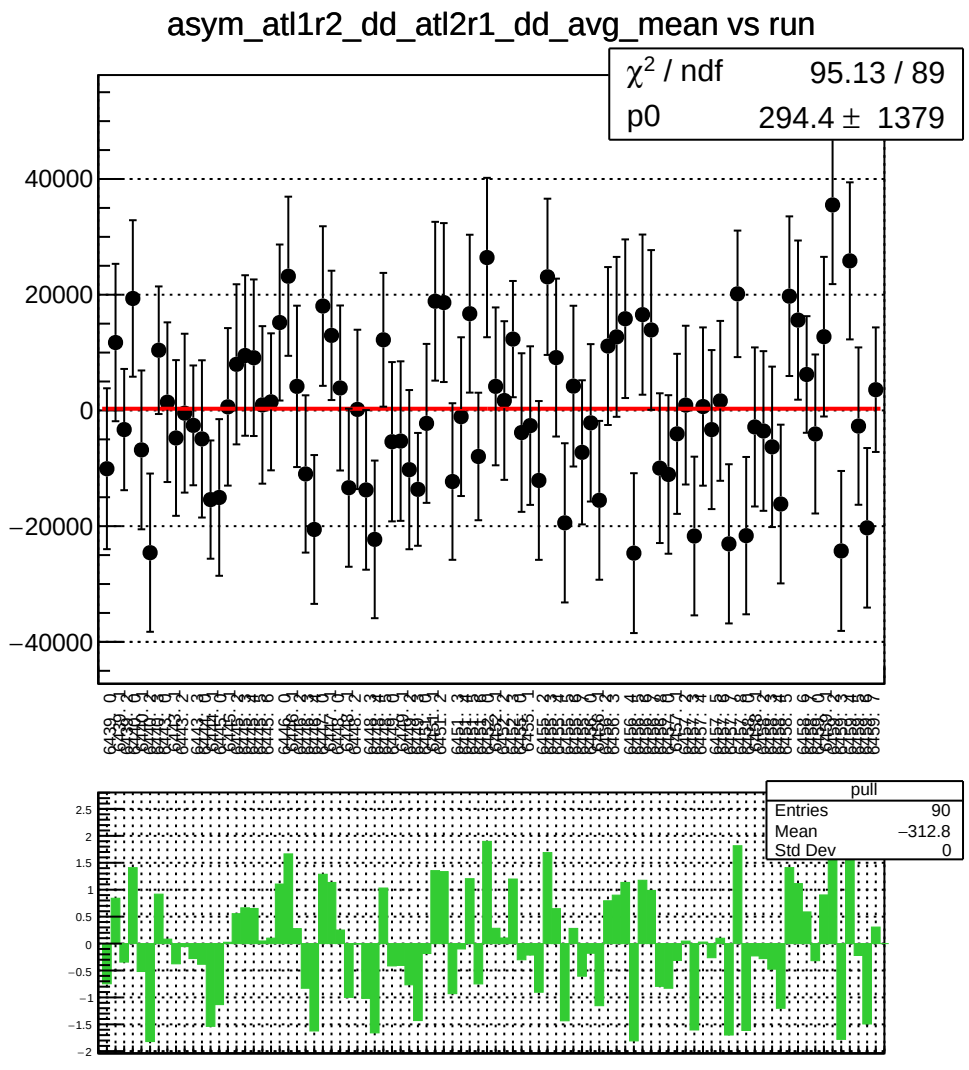

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 95.03 / 89
p0 −450.9 ± 1360
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −295.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

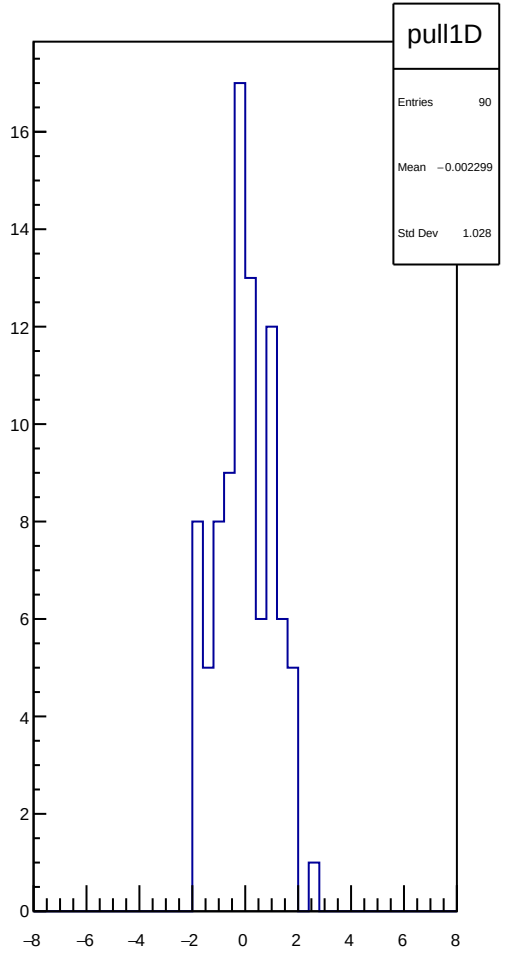

pull1D
Entries 90
Mean −0.004063
Std Dev 1.028
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

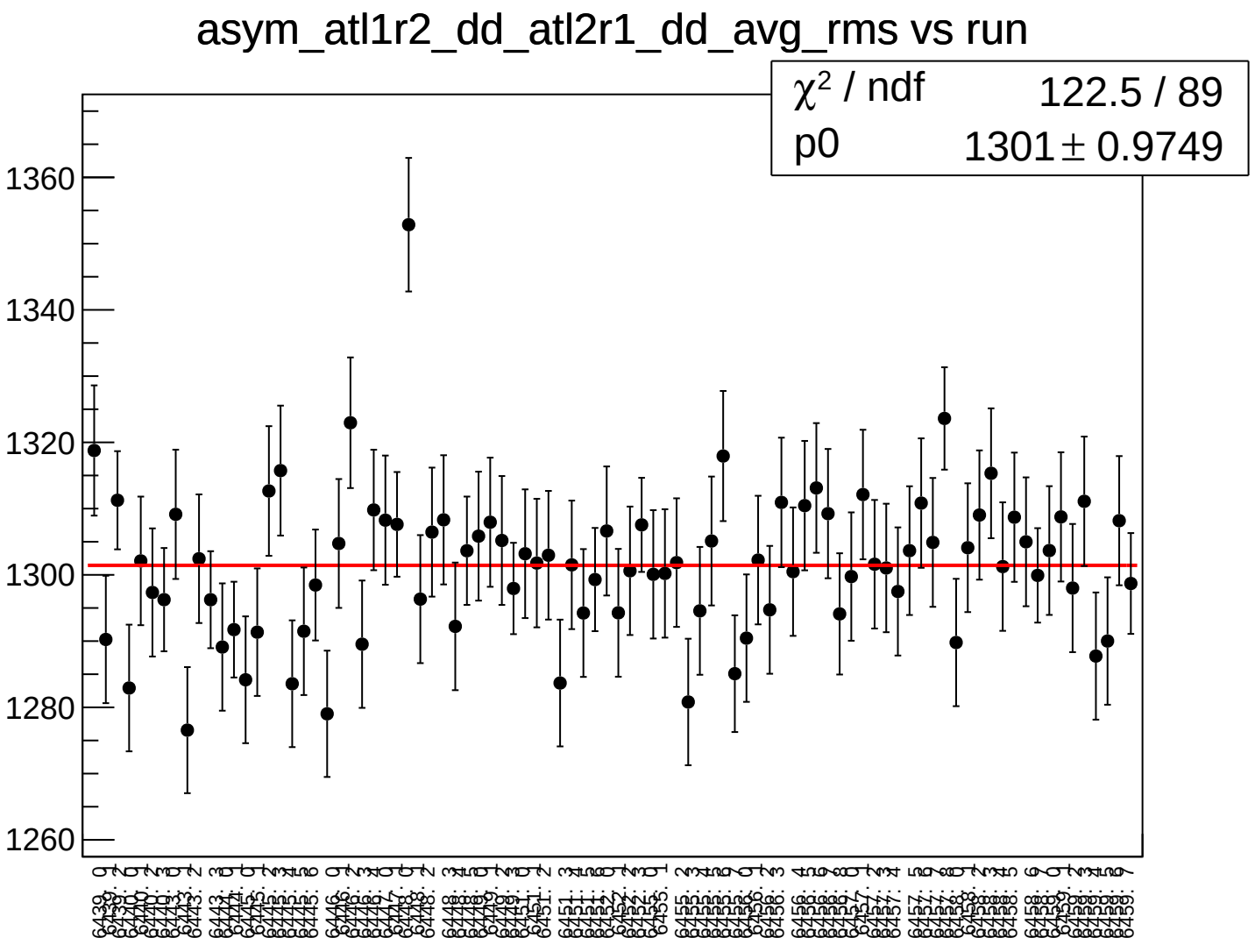

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 111 / 89
p0 1283 ± 0.9615
1340
1320
1300
1280
1260

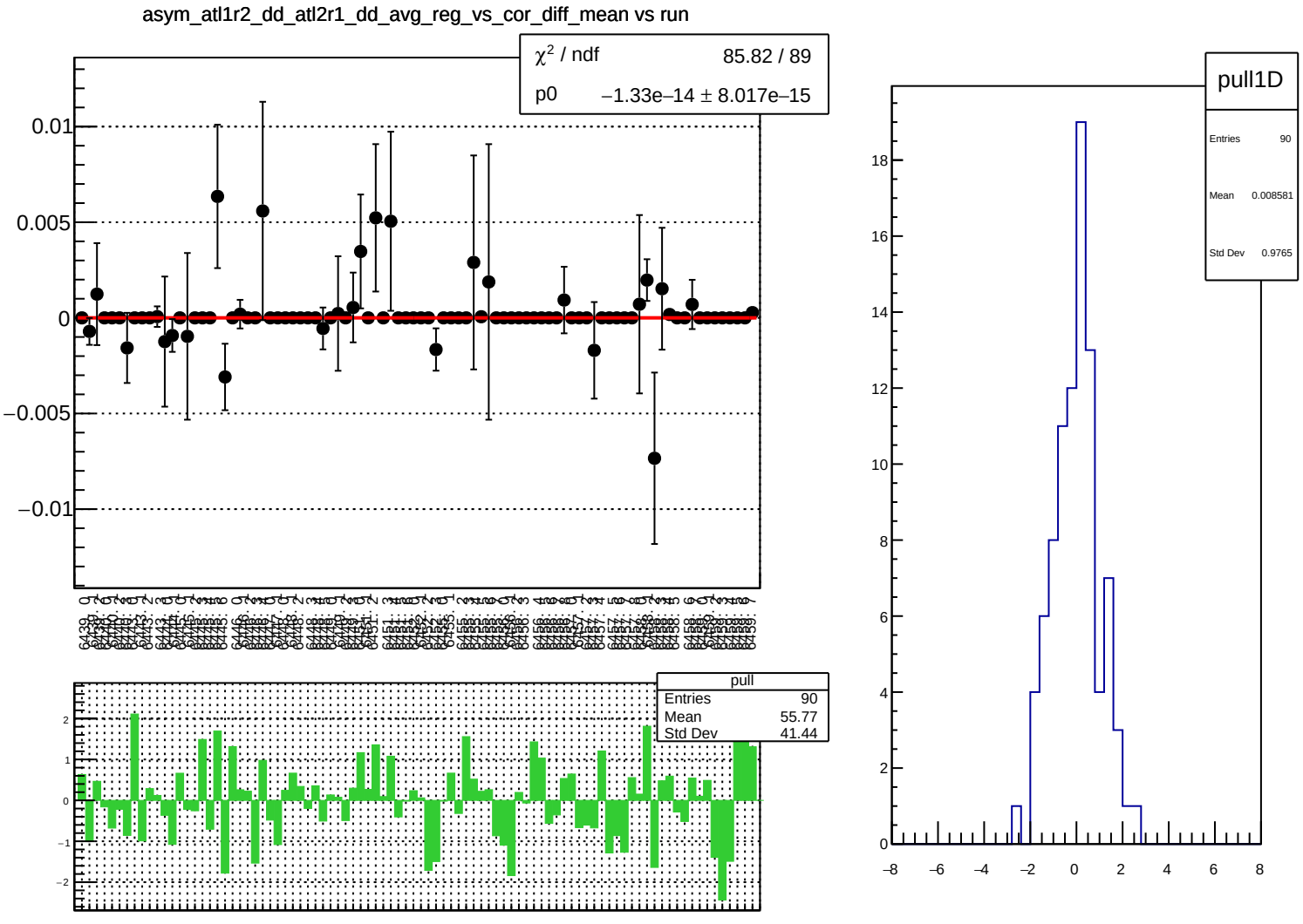

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 72.26 / 89
p0 −733.2 ± 235.9
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 90
Mean −210.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 90
Mean −0.01275
Std Dev 0.896
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

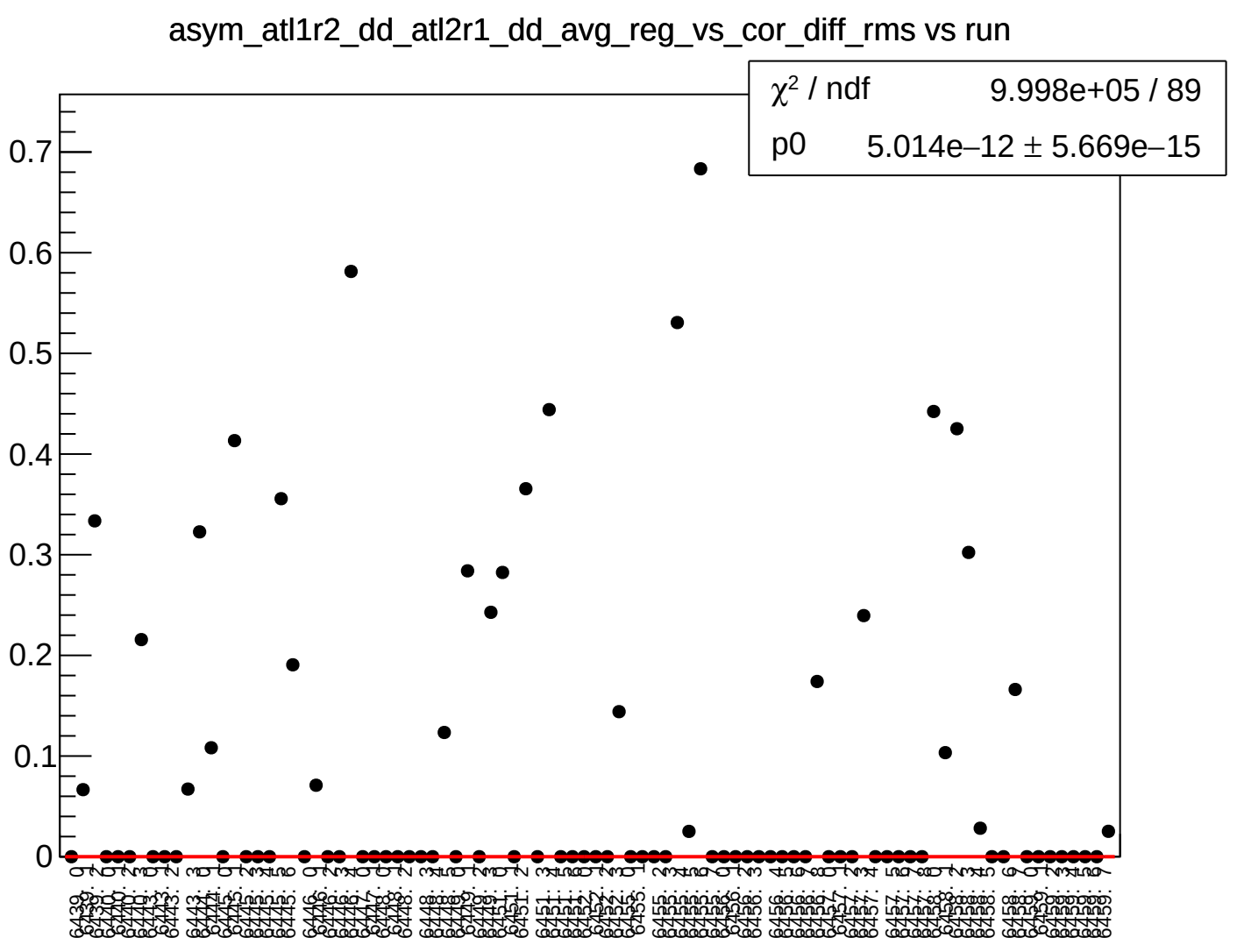

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 4098 / 89
p0 222.4 ± 0.1668
250
240
230
220
210
200

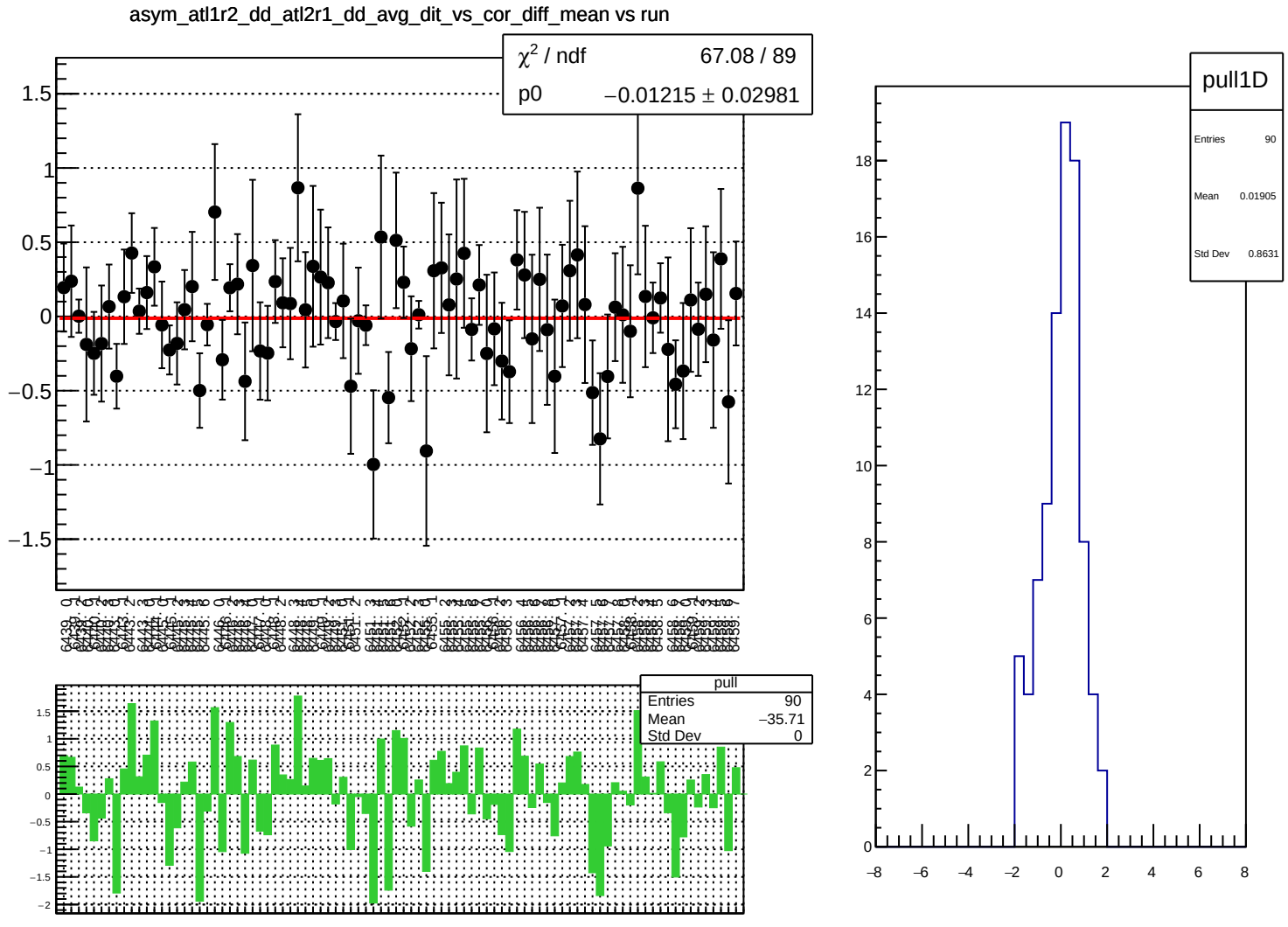

asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 95.13 / 89
p0 294.4 ± 1379
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −312.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

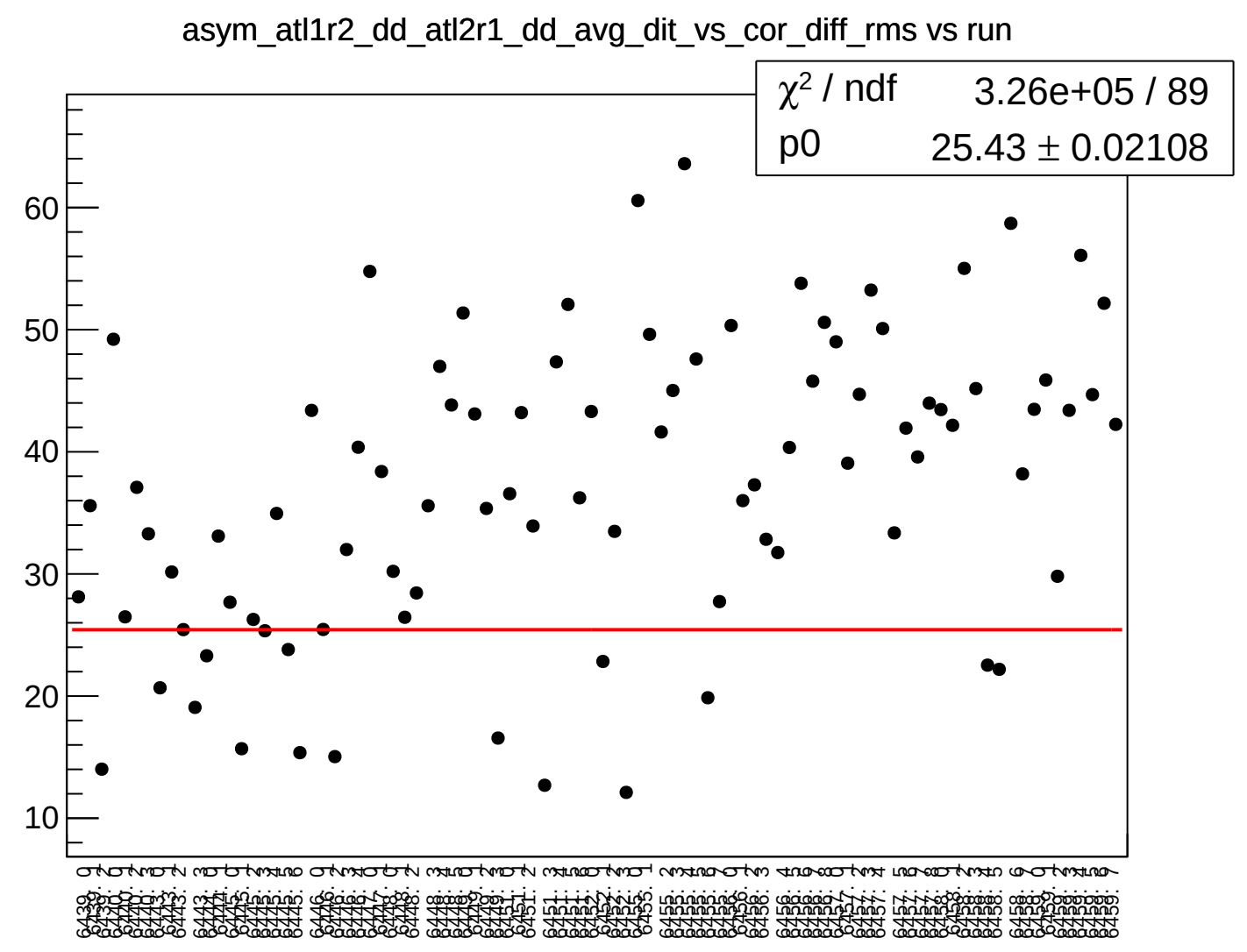

pull1D
Entries 90
Mean −0.002299
Std Dev 1.028
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

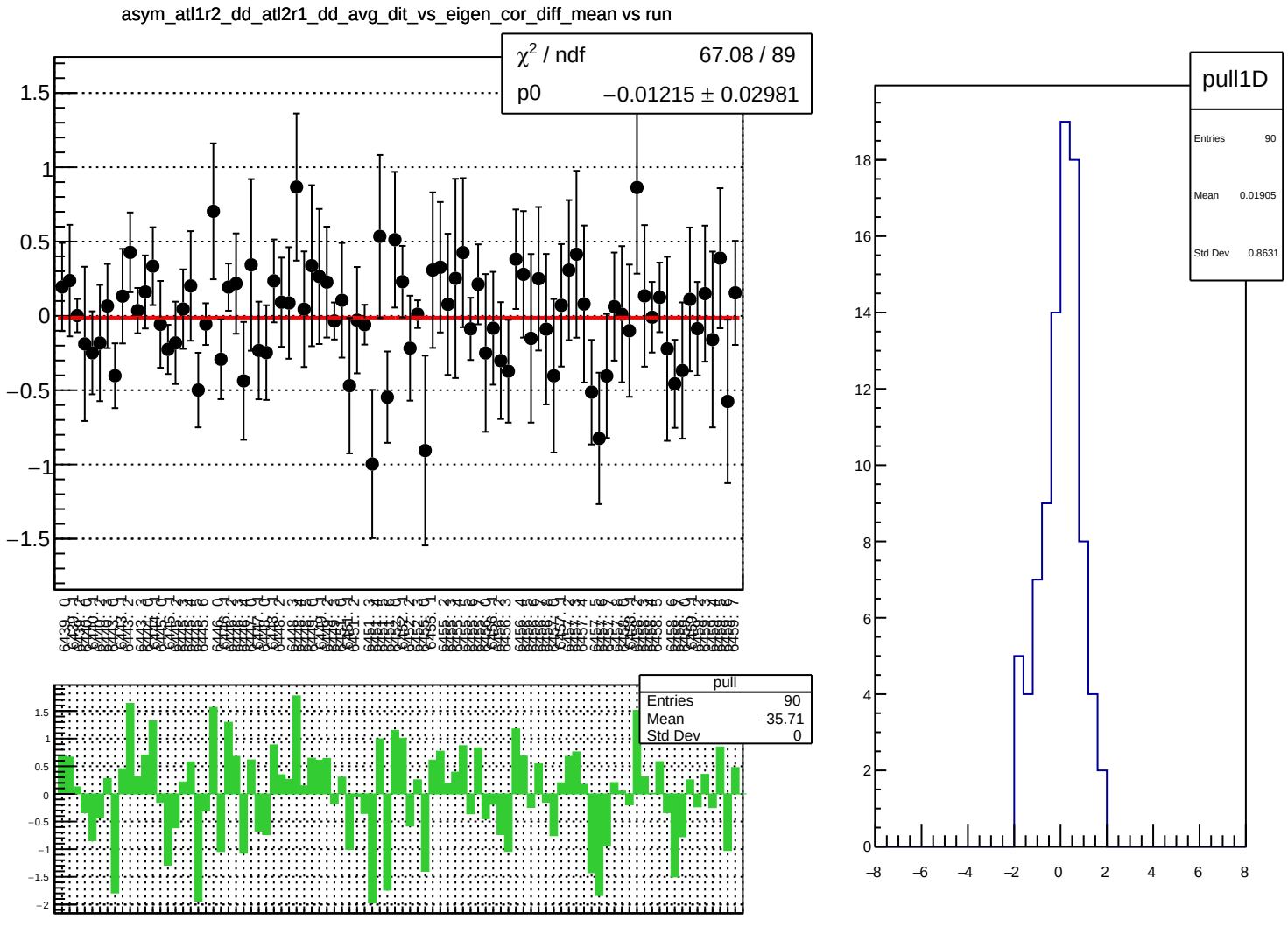

asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 122.5 / 89
p0 1301 ± 0.9749
1360
1340
1320
1300
1280
1260

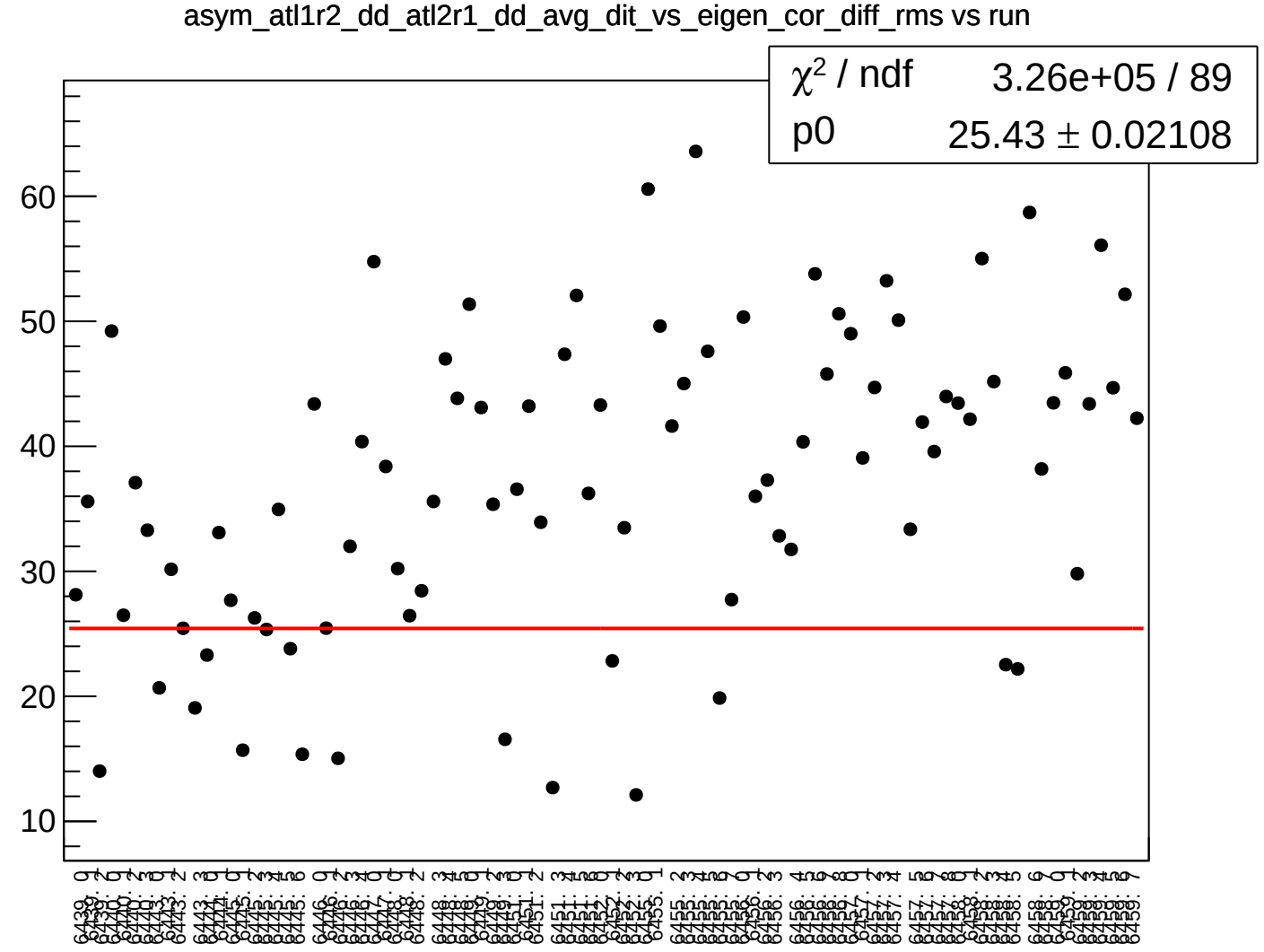

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 85.82 / 89
p0 −1.33e−14 ± 8.017e−15
0.01
0.005
0
−0.005
−0.01
pull
Entries 90
Mean 55.77
Std Dev 41.44
pull1D
Entries 90
Mean 0.008581
Std Dev 0.9765

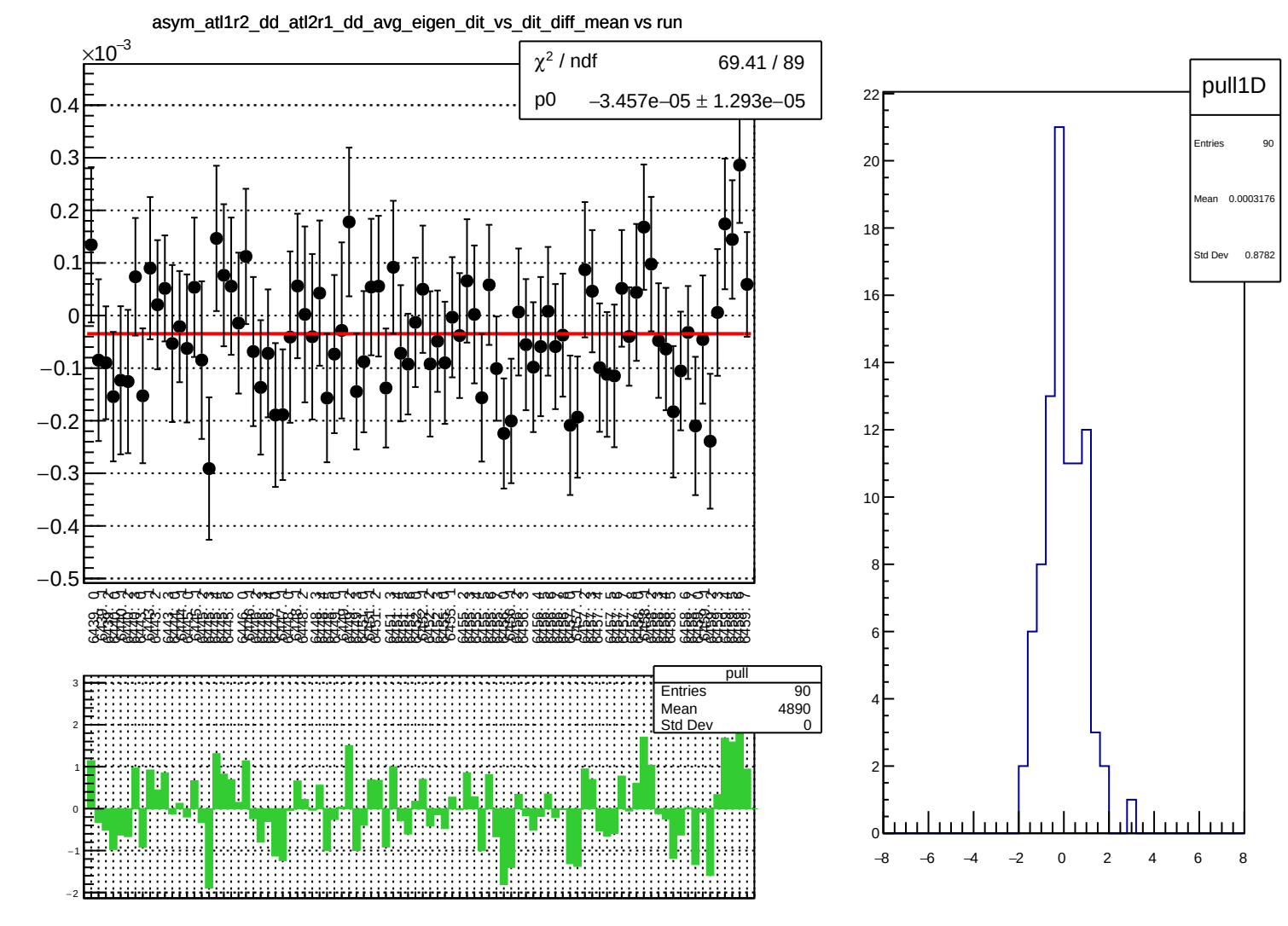

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.998e+05 / 89
p0 5.014e−12 ± 5.669e−15
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

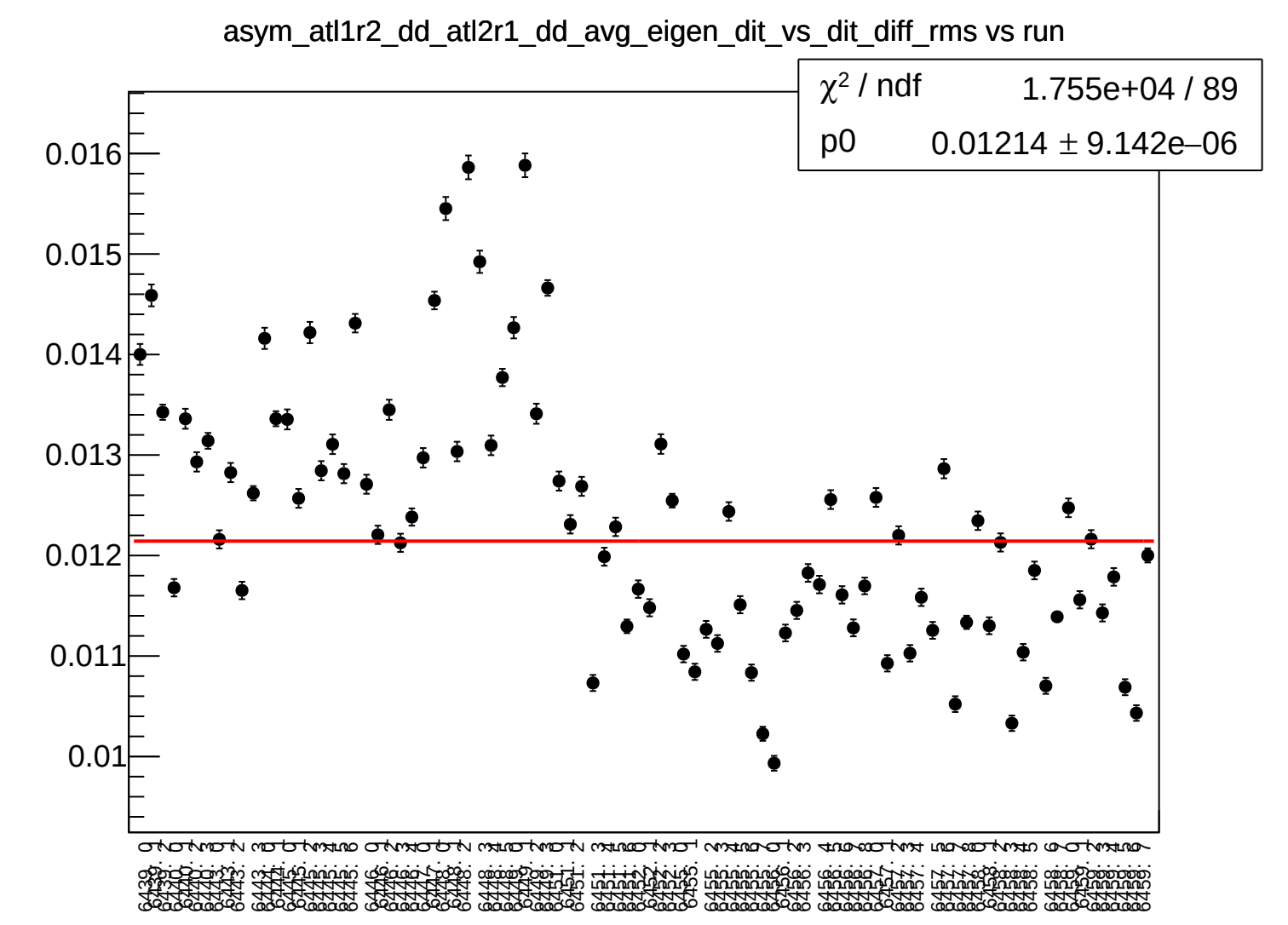

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 67.08 / 89
p0 −0.01215 ± 0.02981
pull
Entries 90
Mean −35.71
Std Dev 0
pull1D
Entries 90
Mean 0.01905
Std Dev 0.8631

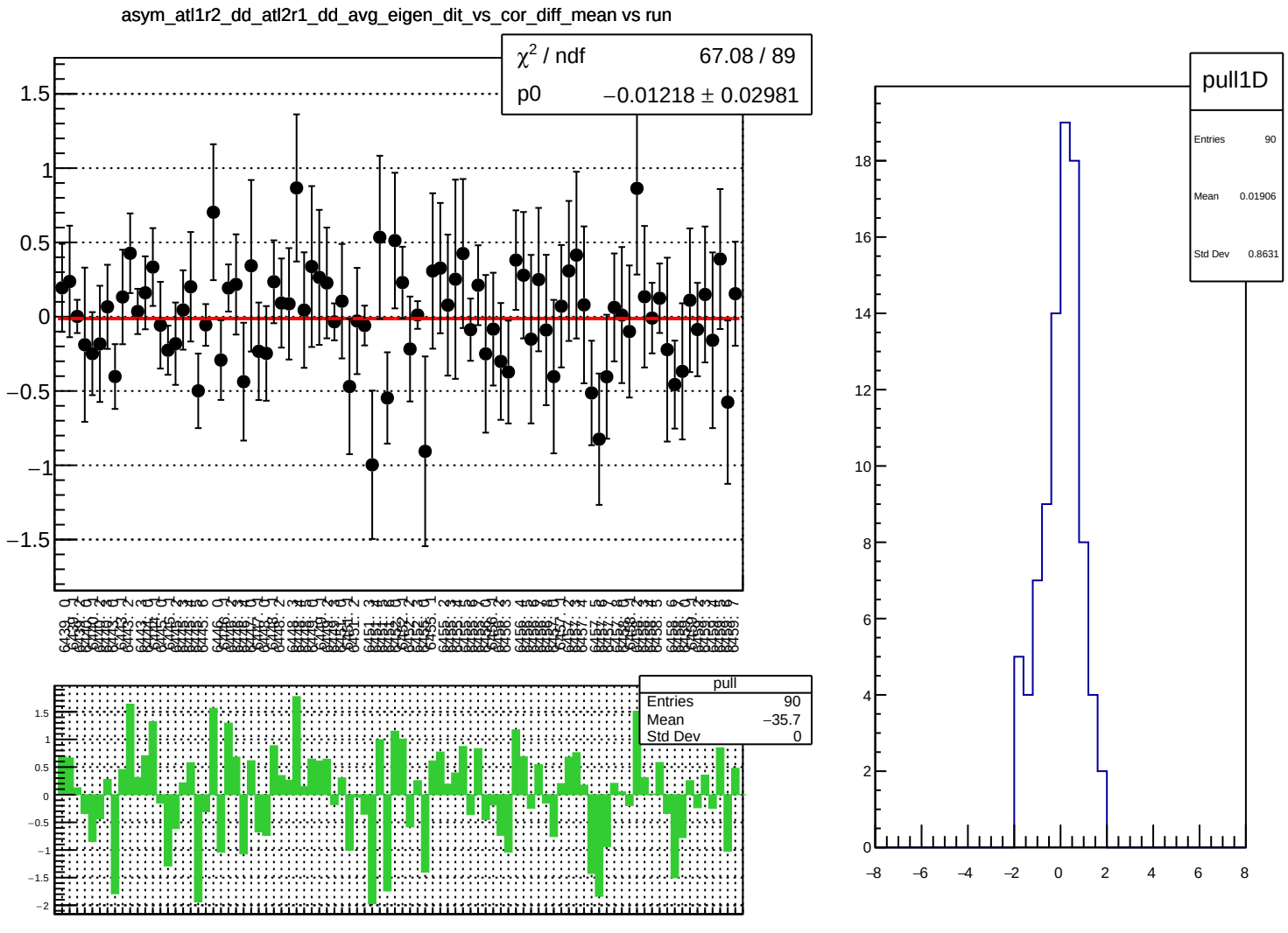

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.26e+05 / 89
p0 25.43 ± 0.02108
60
50
40
30
20
10

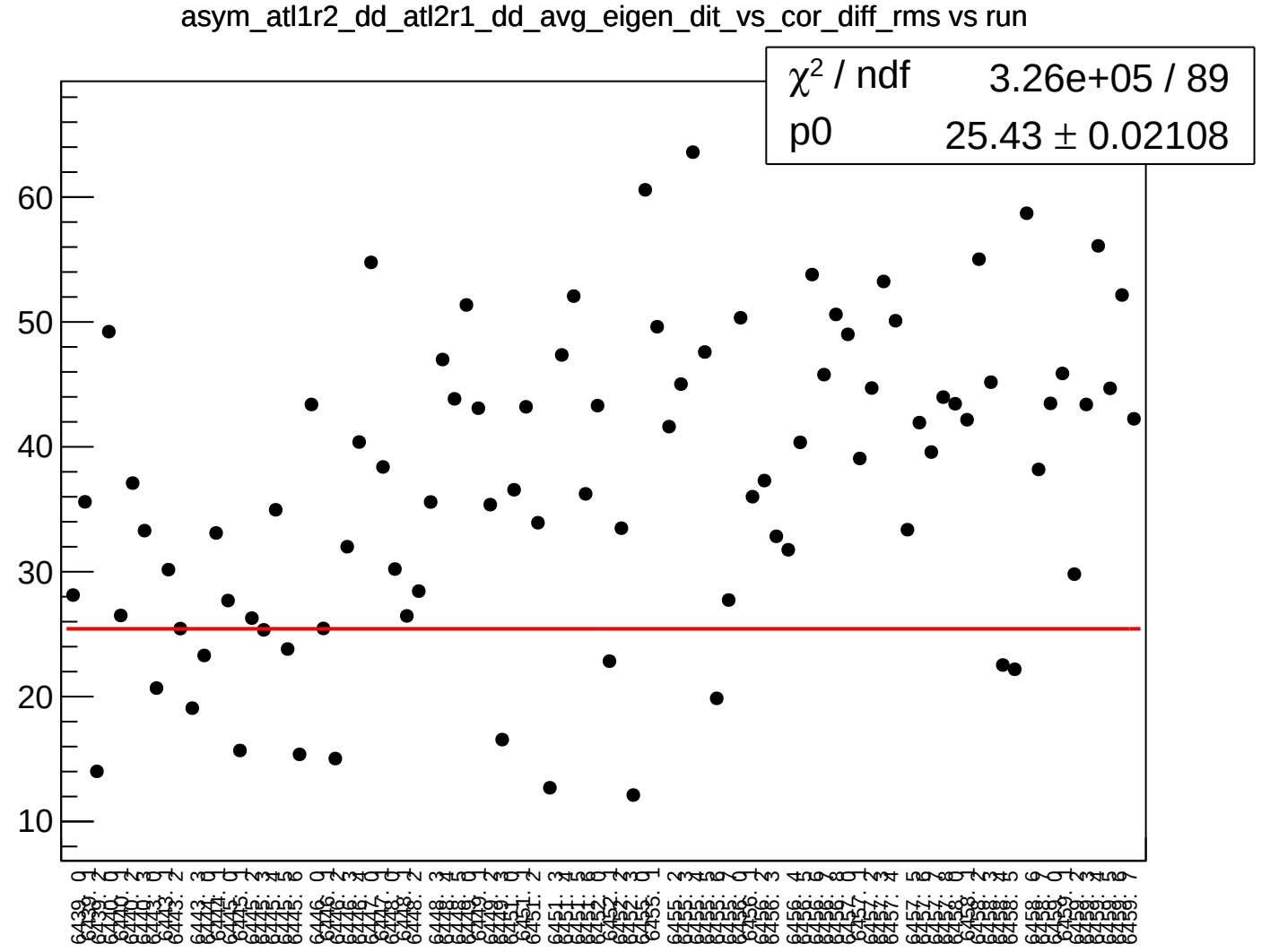

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.08 / 89
p0 −0.01215 ± 0.02981
pull
Entries 90
Mean −35.71
Std Dev 0
pull1D
Entries 90
Mean 0.01905
Std Dev 0.8631

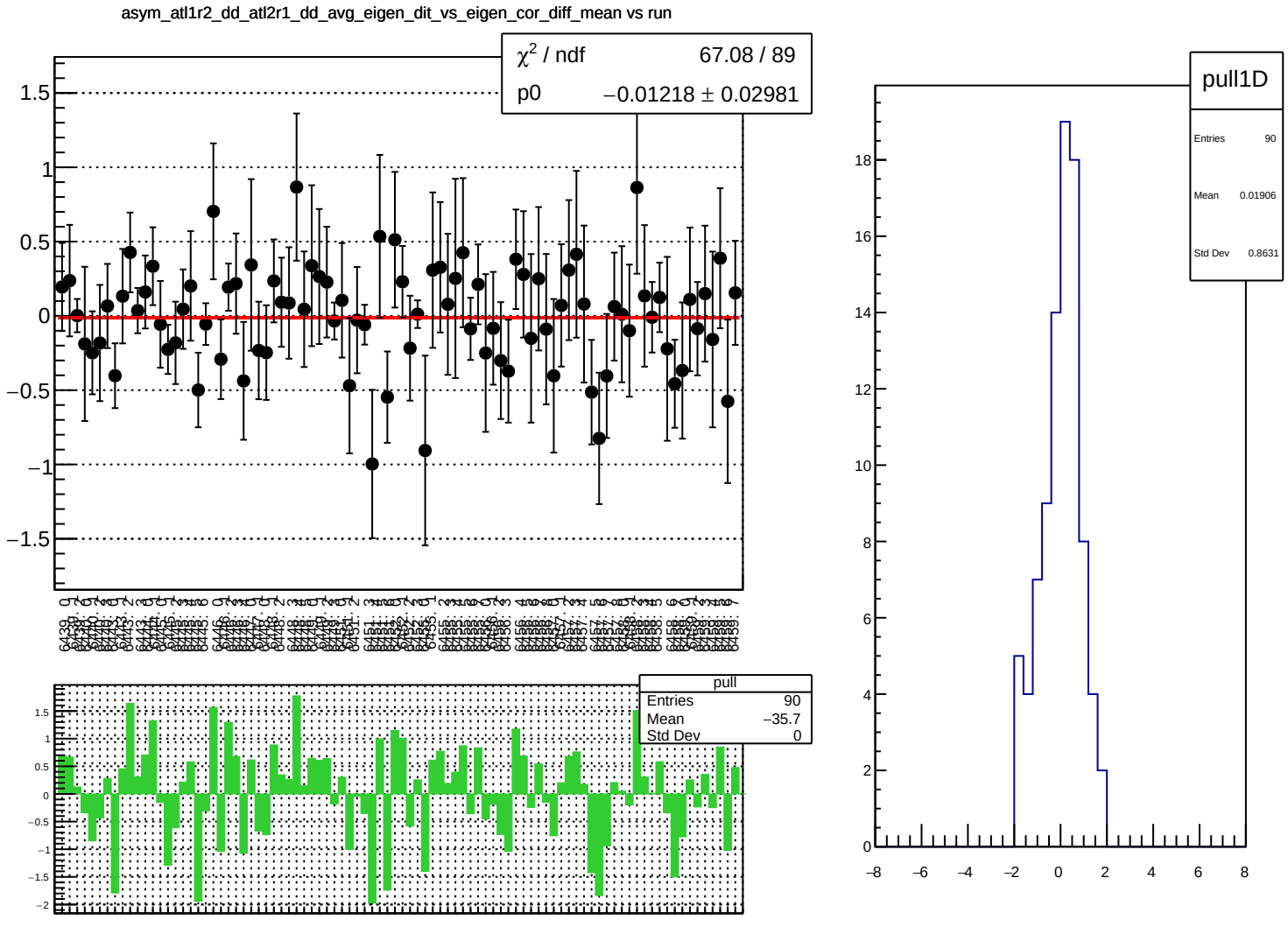

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.26e+05 / 89
p0 25.43 ± 0.02108
60
50
40
30
20
10

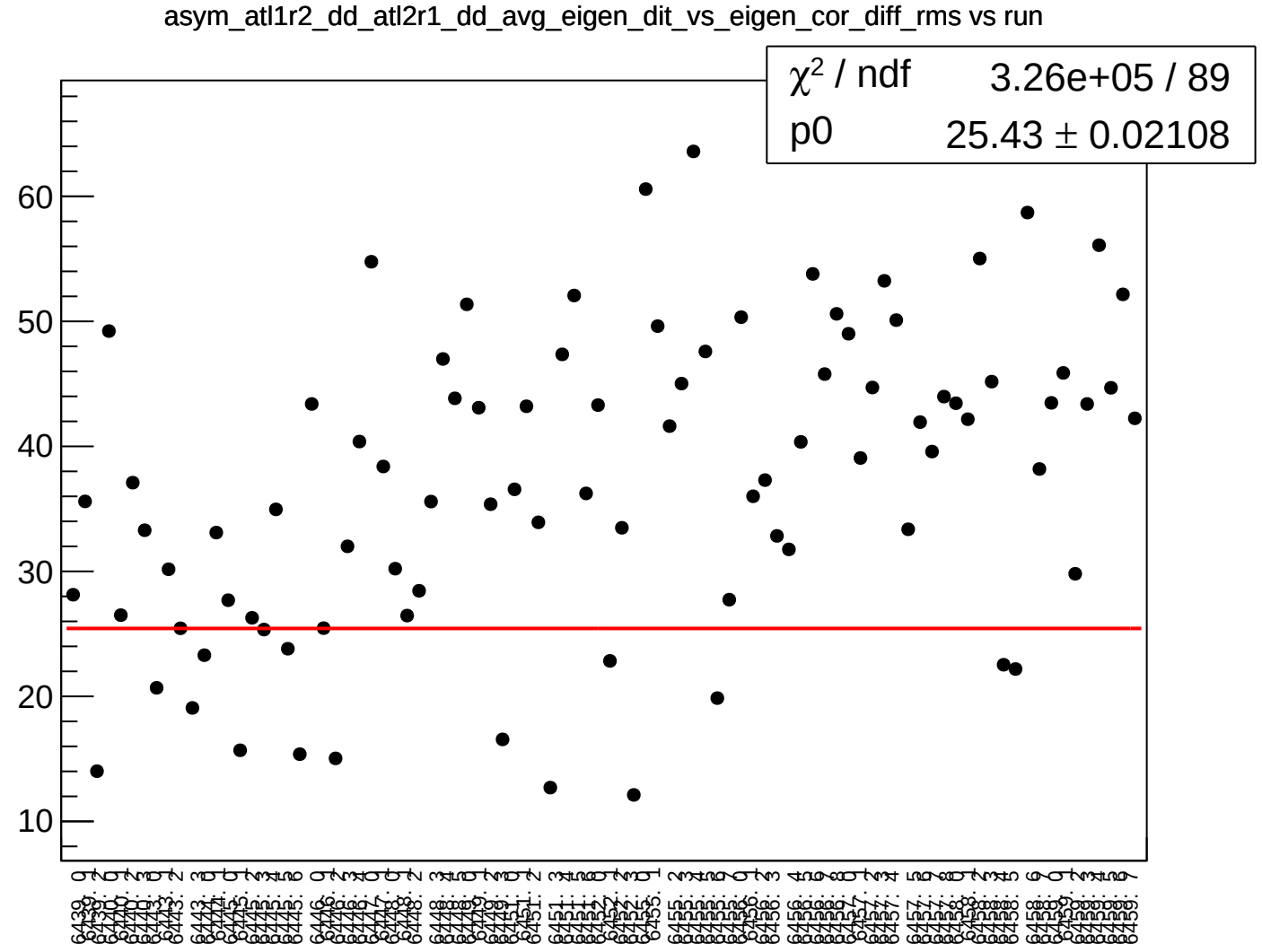

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 69.41 / 89
p0 −3.457e−05 ± 1.293e−05
pull
Entries 90
Mean 4890
Std Dev 0
pull1D
Entries 90
Mean 0.0003176
Std Dev 0.8782

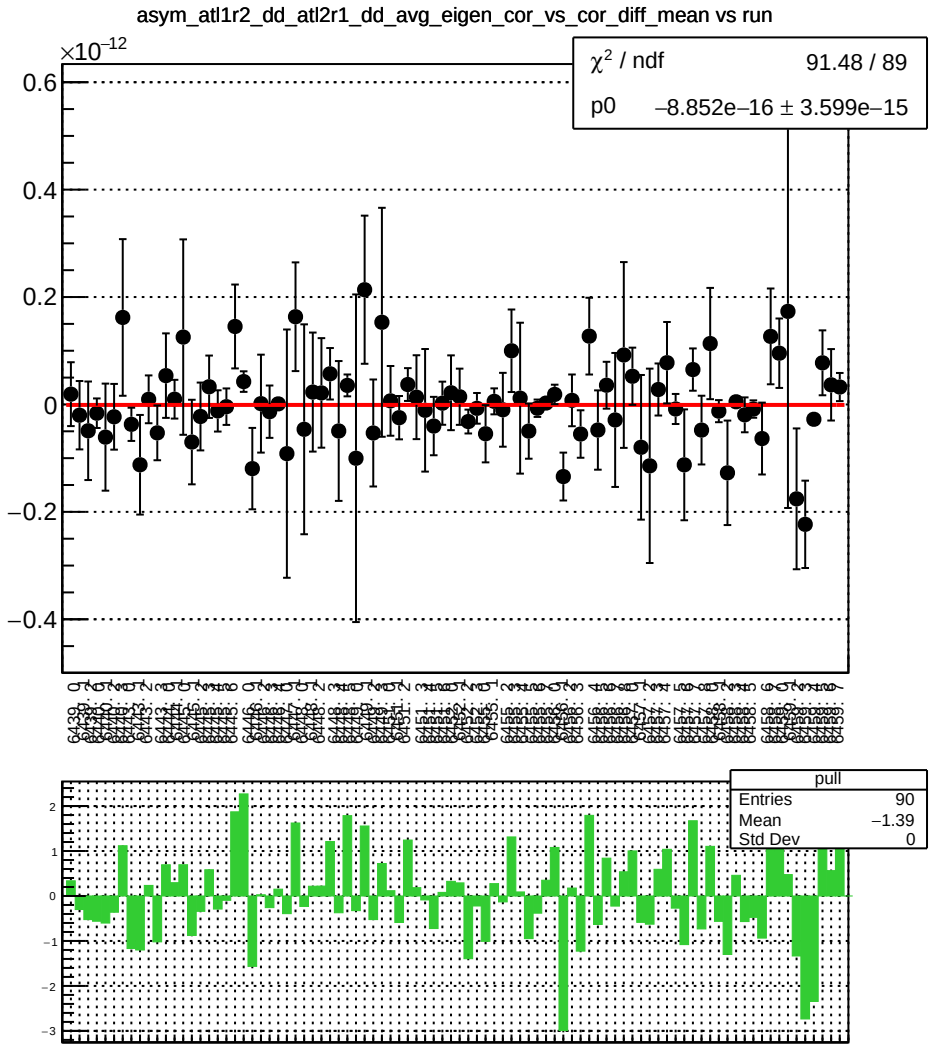

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.755e+04 / 89
p0 0.01214 ± 9.142e–06
0.016
0.015
0.014
0.013
0.012
0.011
0.01

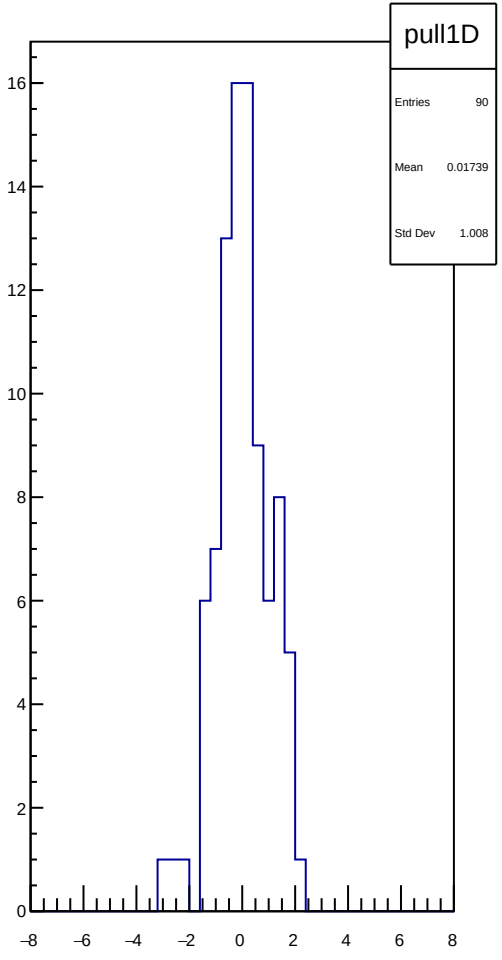

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 67.08 / 89
p0 −0.01218 ± 0.02981
pull
Entries 90
Mean −35.7
Std Dev 0
pull1D
Entries 90
Mean 0.01906
Std Dev 0.8631

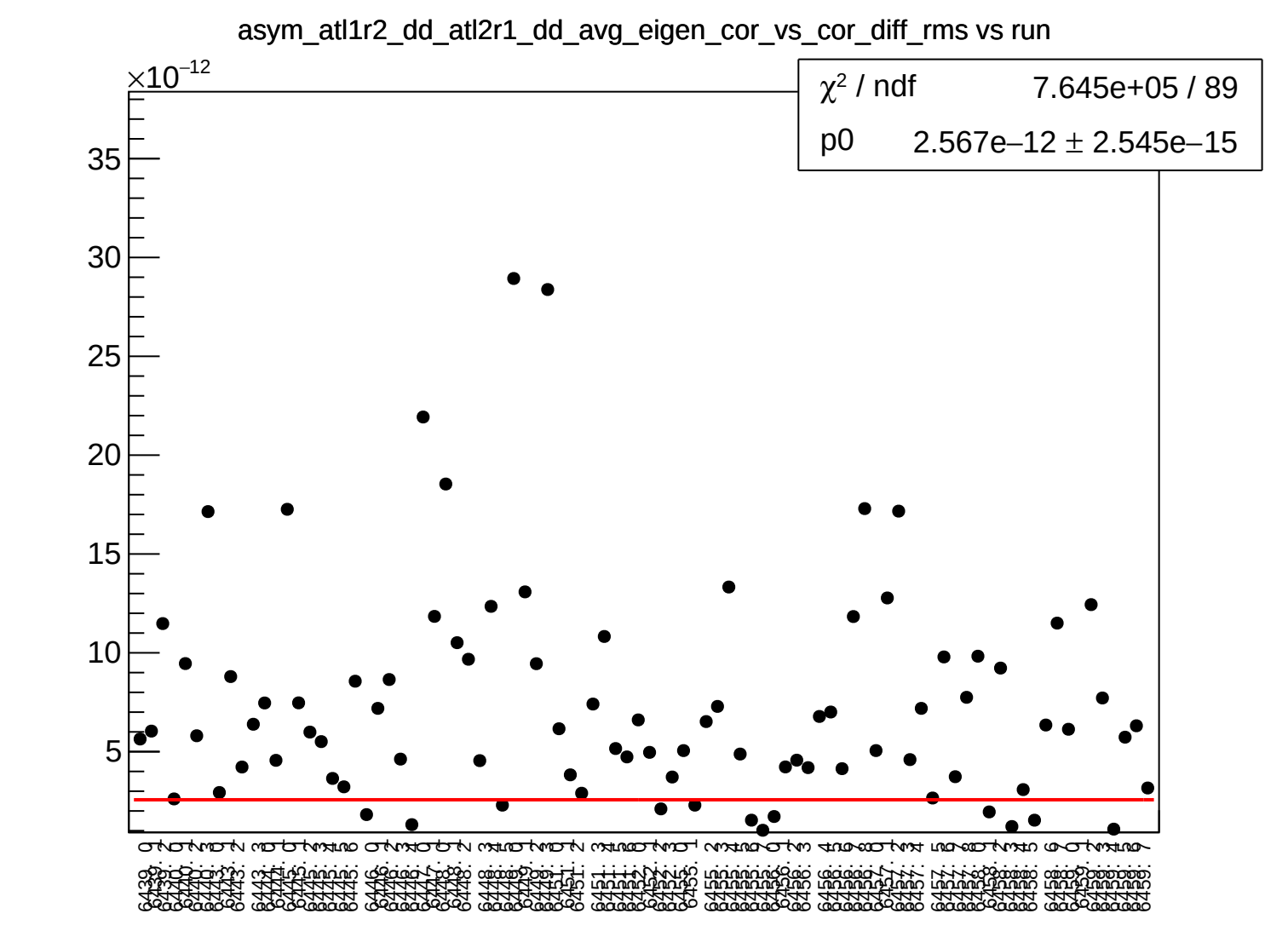

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.26e+05 / 89
p0 25.43 ± 0.02108
60
50
40
30
20
10

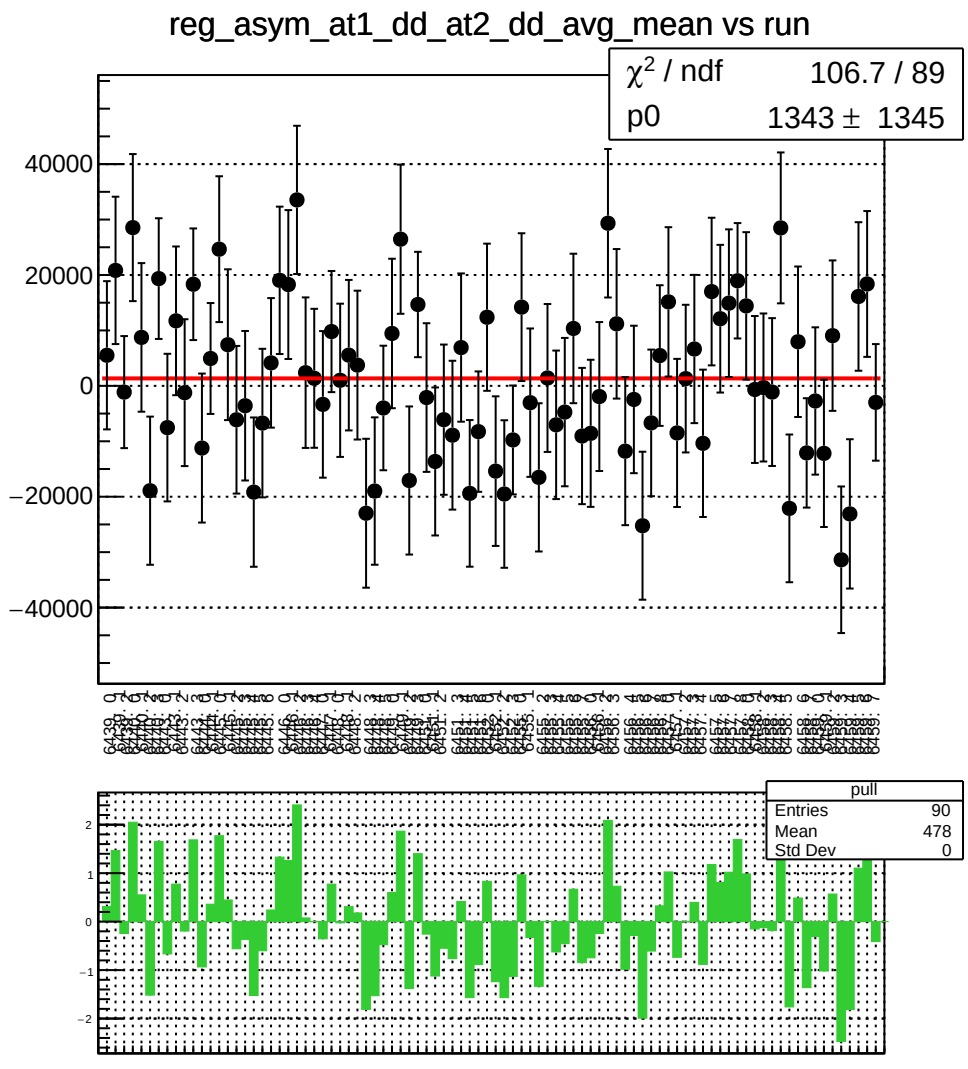

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.08 / 89
p0 −0.01218 ± 0.02981
pull
Entries 90
Mean −35.7
Std Dev 0
pull1D
Entries 90
Mean 0.01906
Std Dev 0.8631

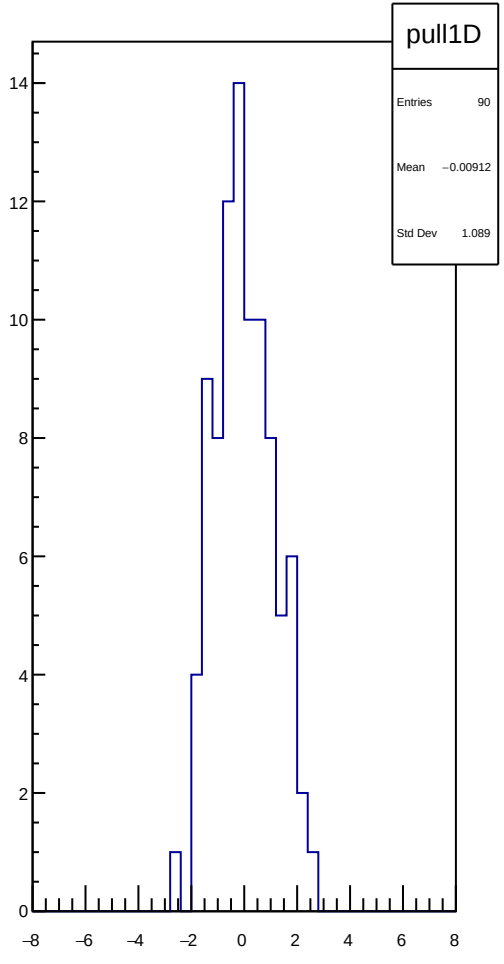

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.26e+05 / 89
p0 25.43 ± 0.02108
60
50
40
30
20
10

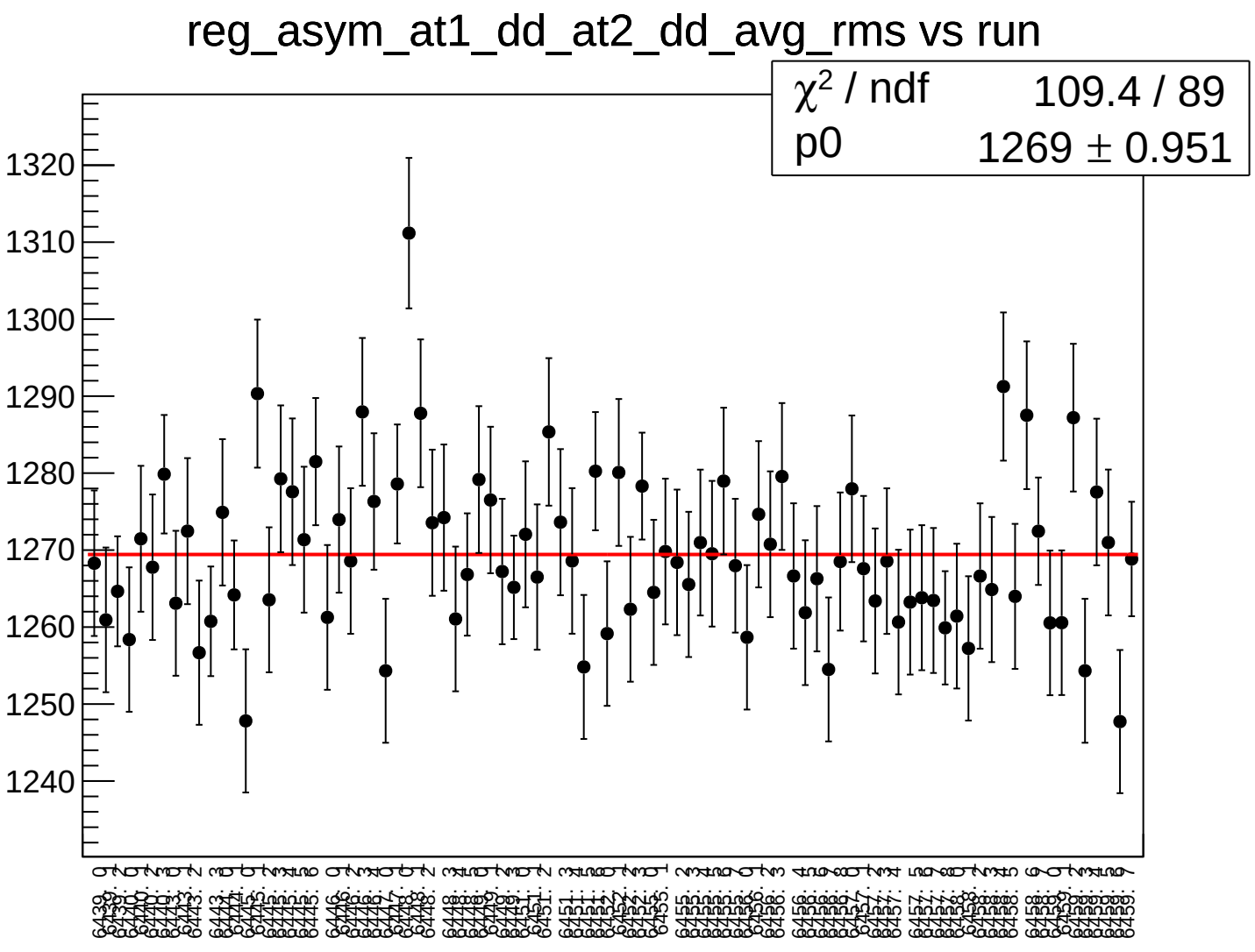

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.48 / 89
p0 −8.852e−16 ± 3.599e−15
pull
Entries 90
Mean −1.39
Std Dev 0

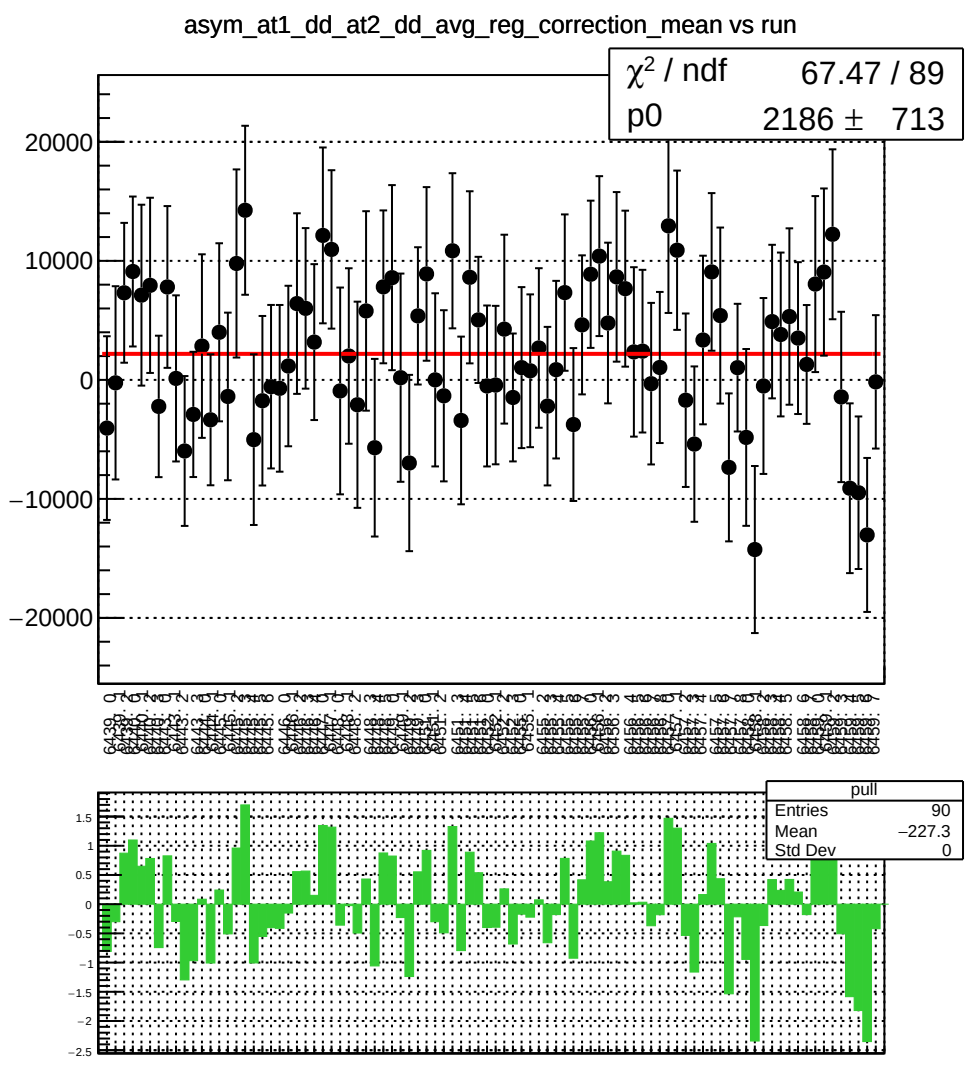

pull1D
Entries 90
Mean 0.01739
Std Dev 1.008

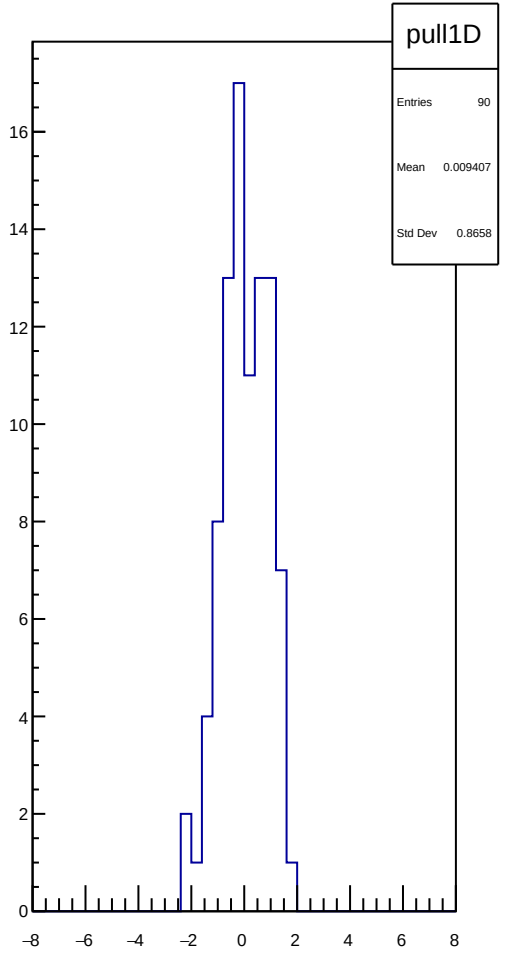

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.645e+05 / 89
p0 2.567e−12 ± 2.545e−15
35
30
25
20
15
10
5

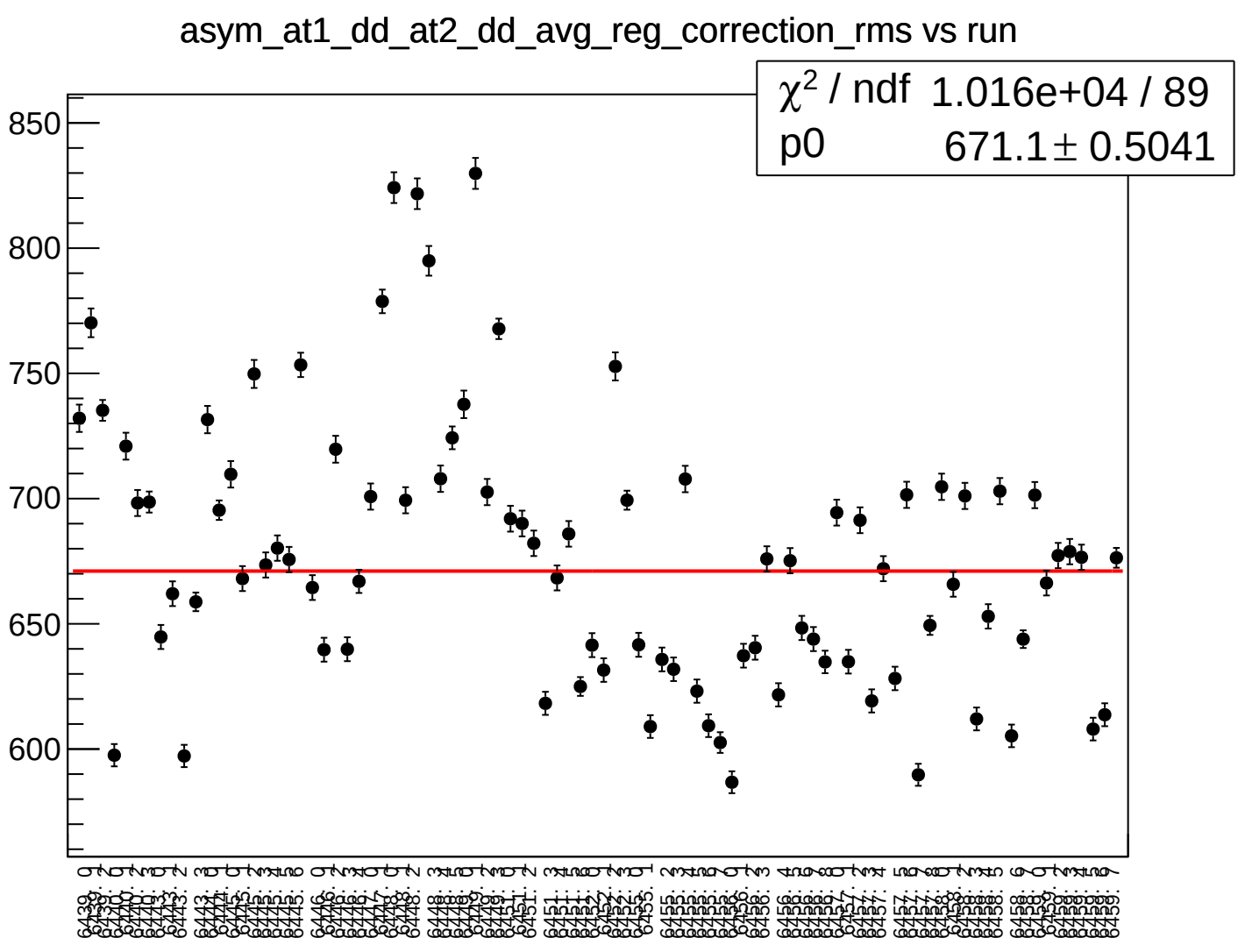

reg_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 106.7 / 89
p0 1343 ± 1345
40000
20000
0
−20000
−40000
pull
Entries 90
Mean 478
Std Dev 0
2
1
0
−1
−2

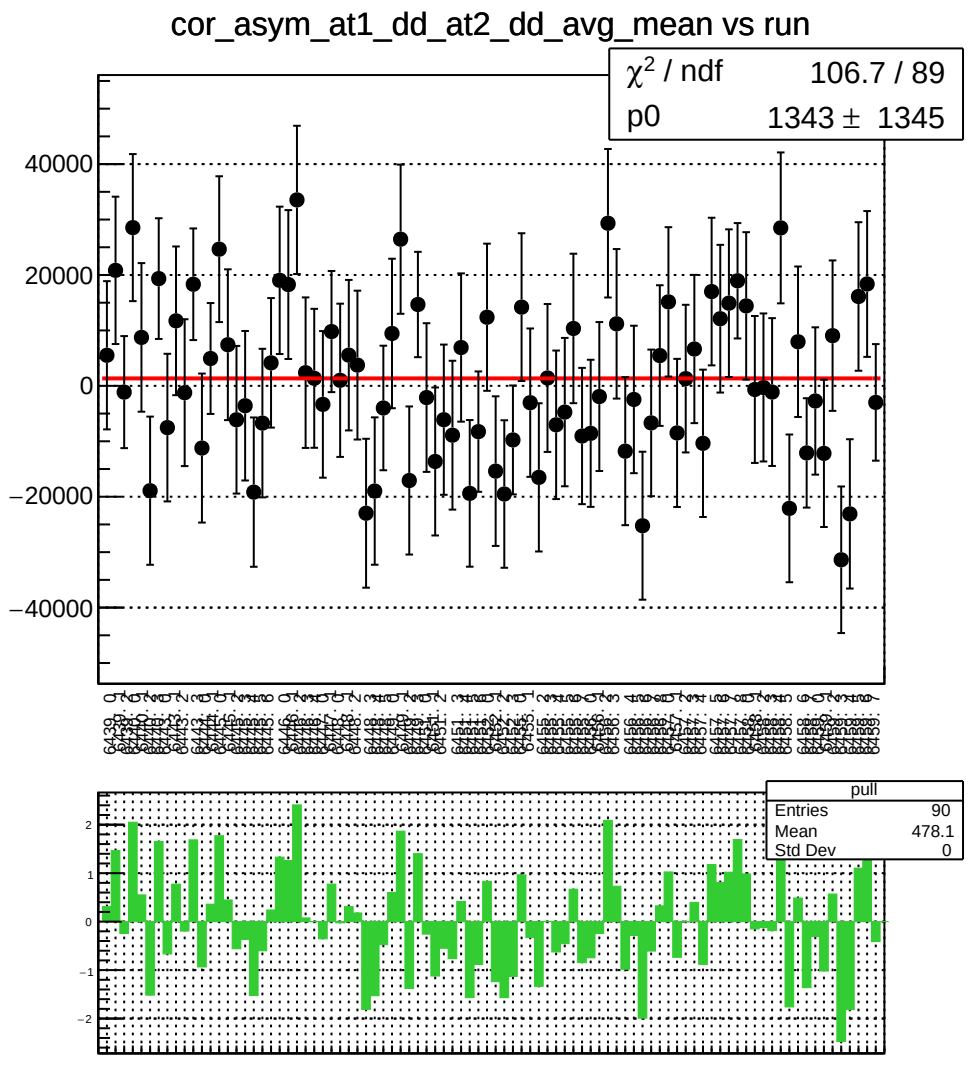

pull1D
Entries 90
Mean −0.00912
Std Dev 1.089
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

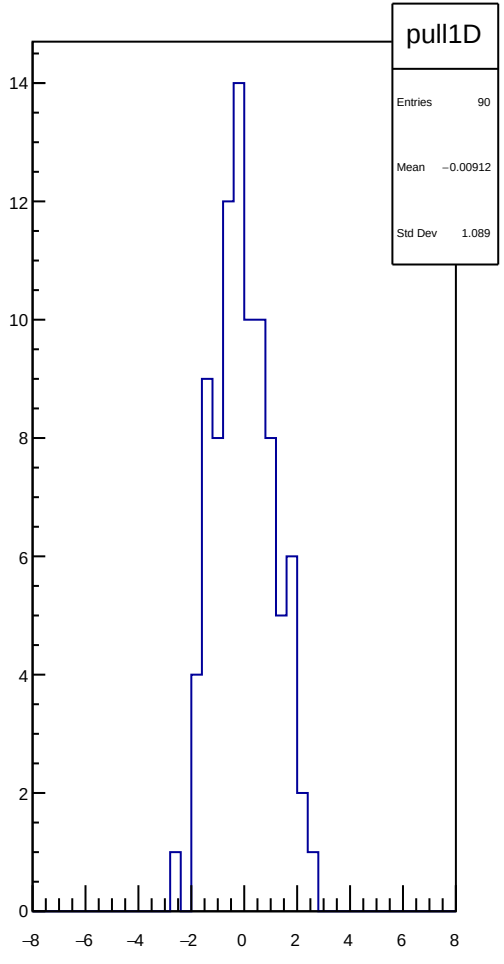

reg_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 109.4 / 89
p0 1269 ± 0.951
1320
1310
1300
1290
1280
1270
1260
1250
1240

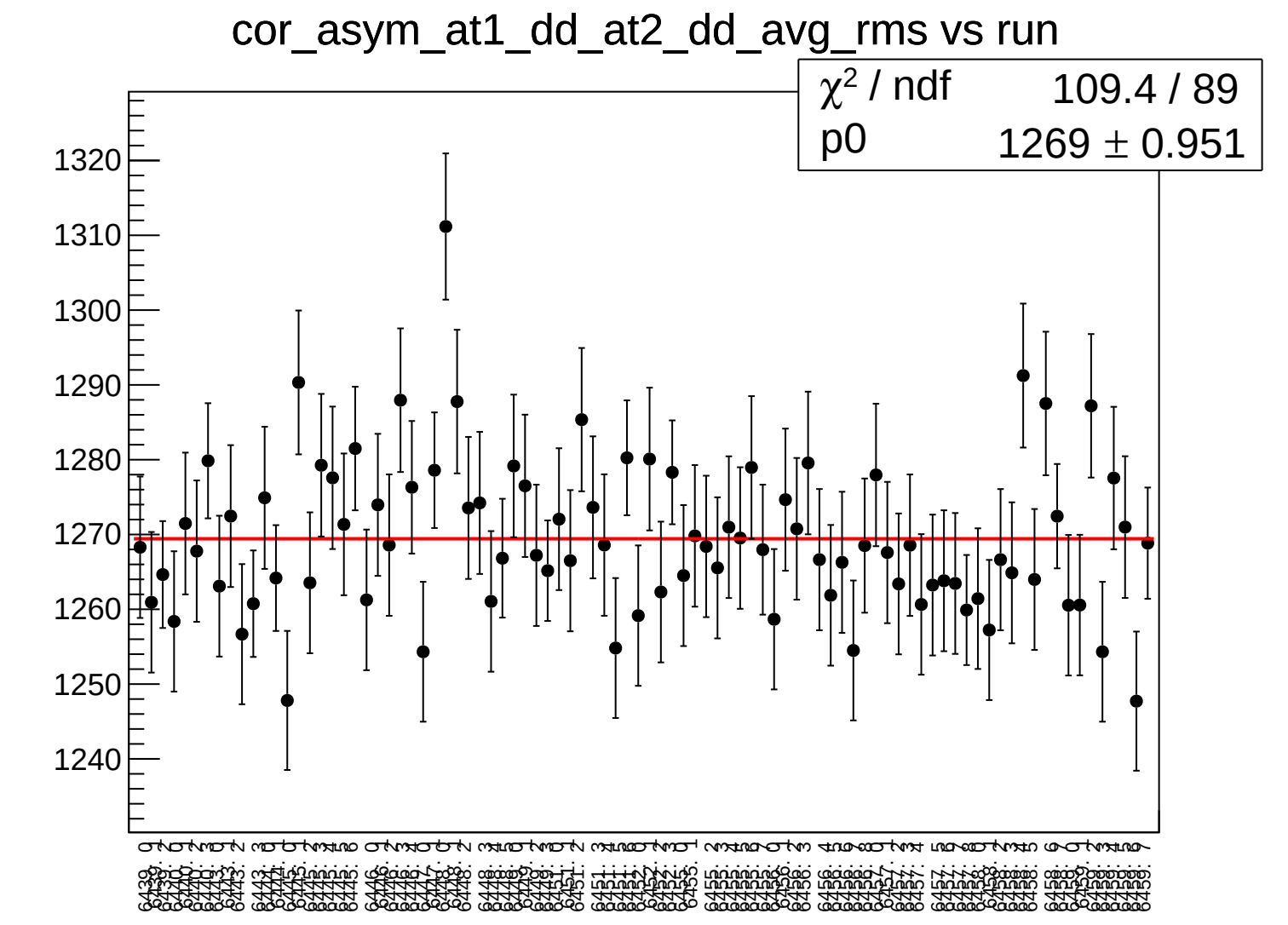

asym_at1_dd_at2_dd_avg_reg_correction_mean vs run
χ² / ndf 67.47 / 89
p0 2186 ± 713
20000
10000
0
−10000
−20000
pull
Entries 90
Mean −227.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

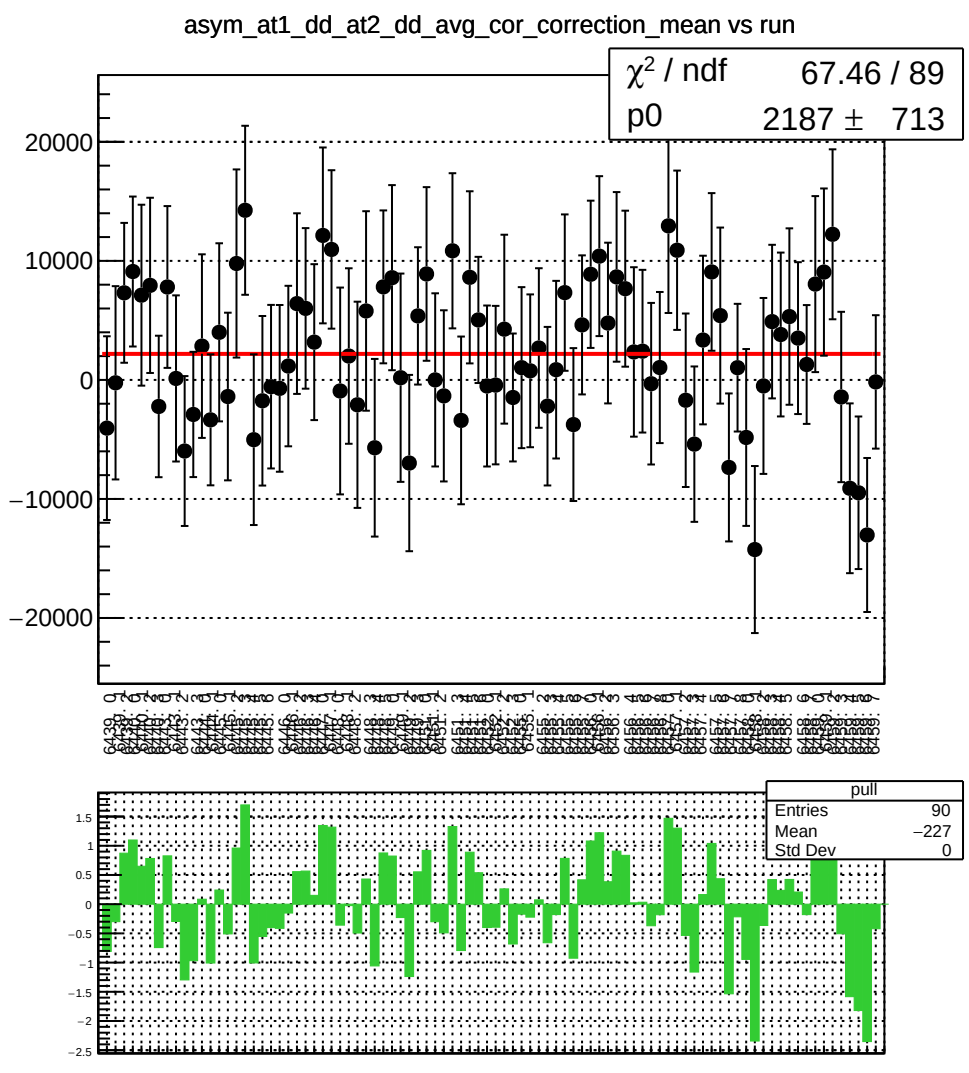

pull1D
Entries 90
Mean 0.009407
Std Dev 0.8658
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

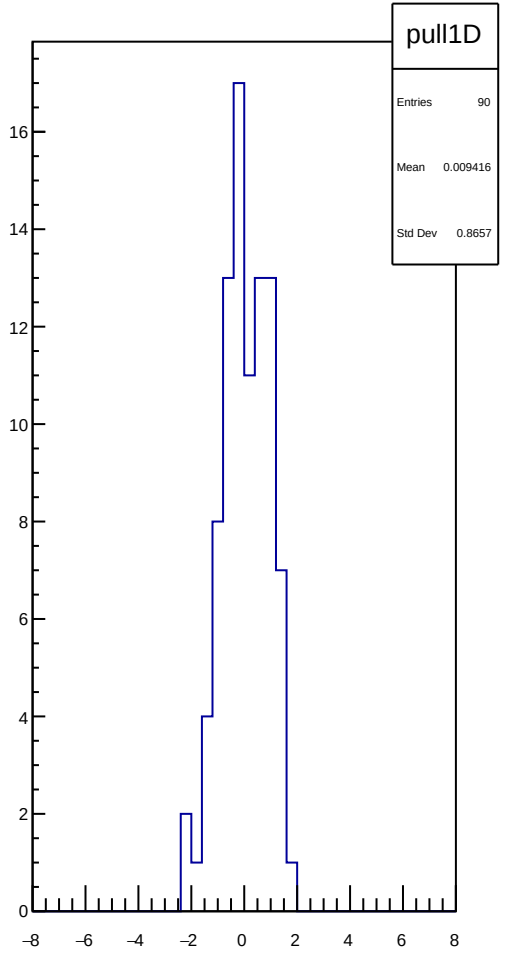

asym_at1_dd_at2_dd_avg_reg_correction_rms vs run
χ² / ndf 1.016e+04 / 89
p0 671.1 ± 0.5041
850
800
750
700
650
600

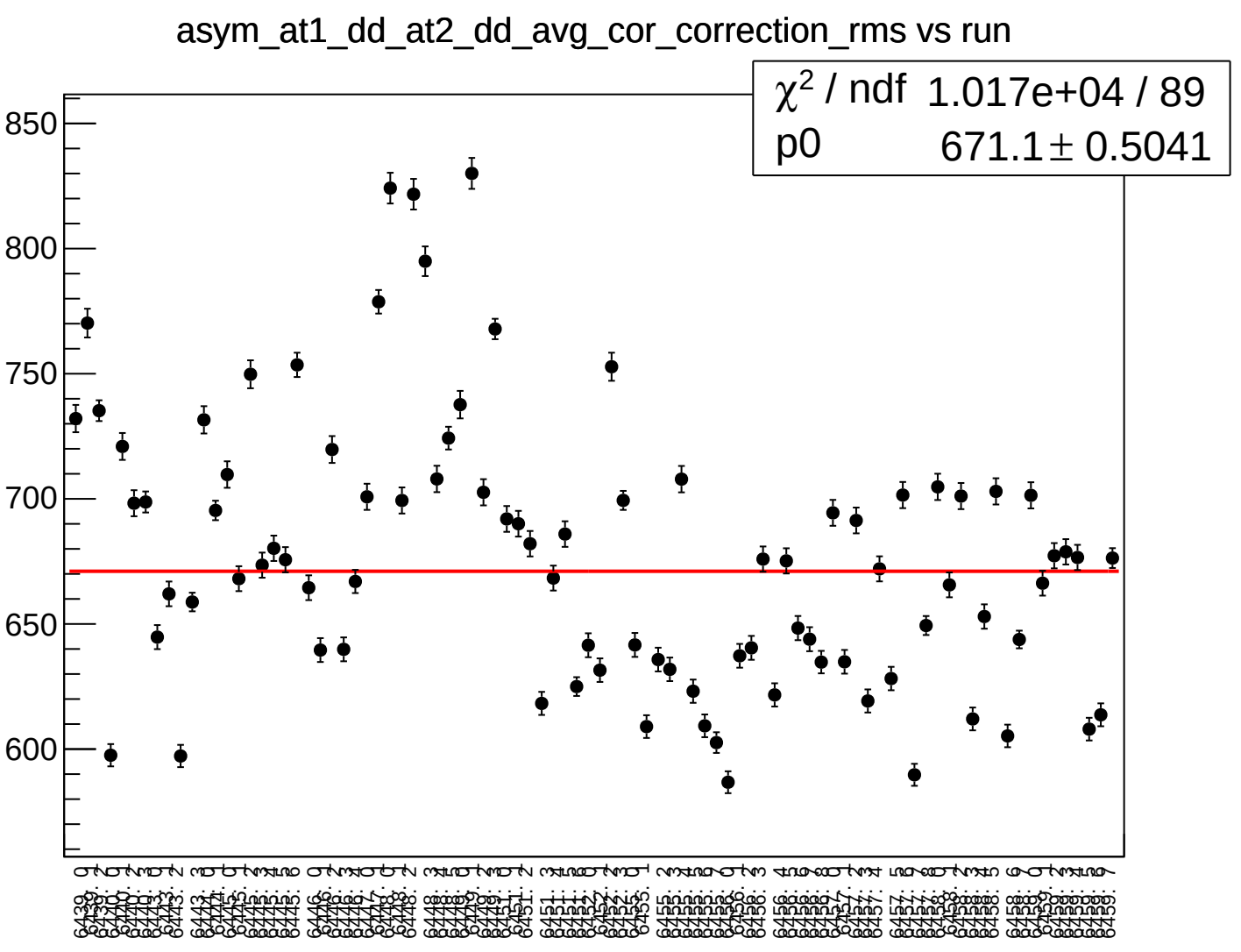

cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 106.7 / 89
p0 1343 ± 1345
40000
20000
0
−20000
−40000
pull
Entries 90
Mean 478.1
Std Dev 0
2
1
0
−1
−2

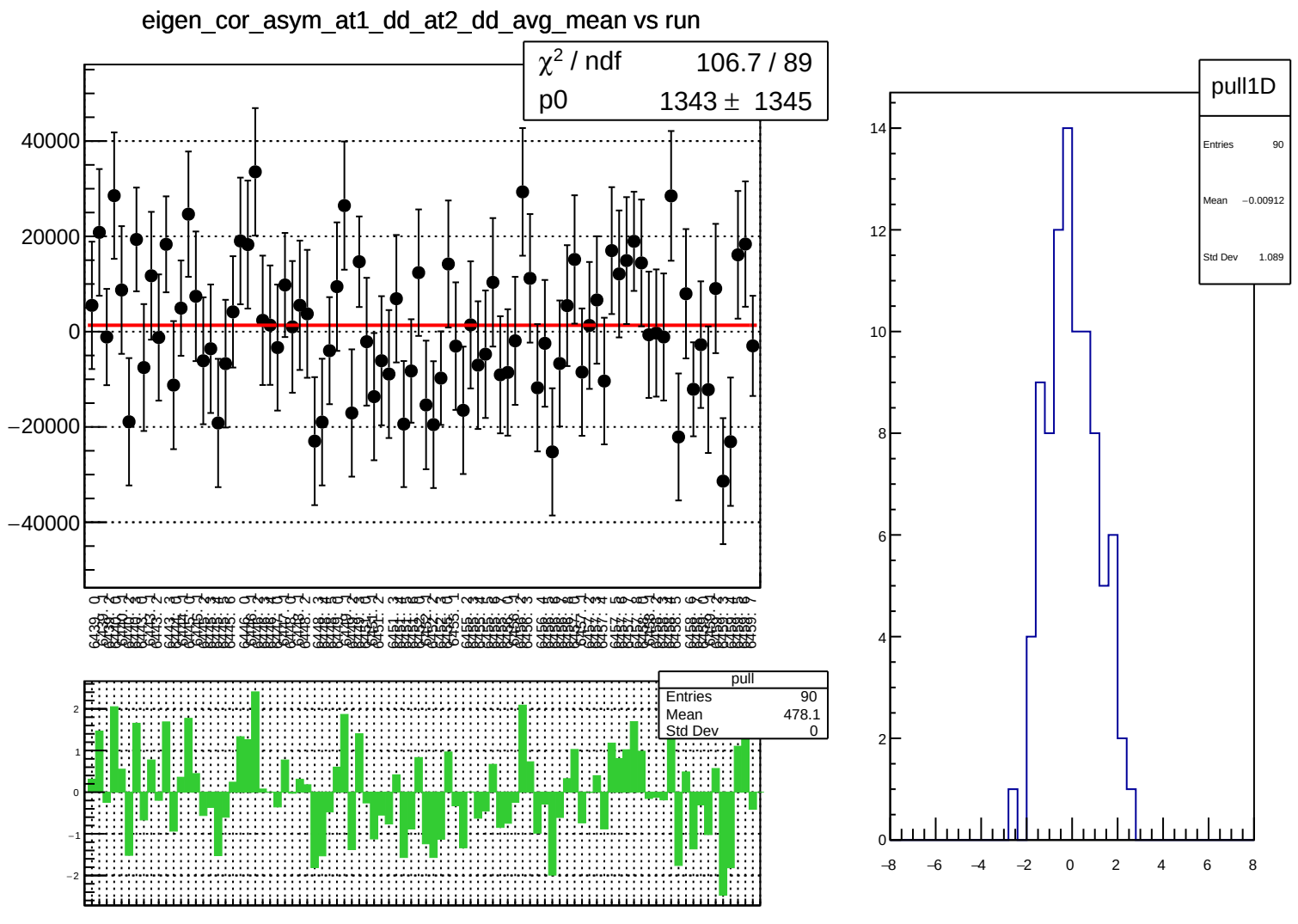

pull1D
Entries 90
Mean −0.00912
Std Dev 1.089
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

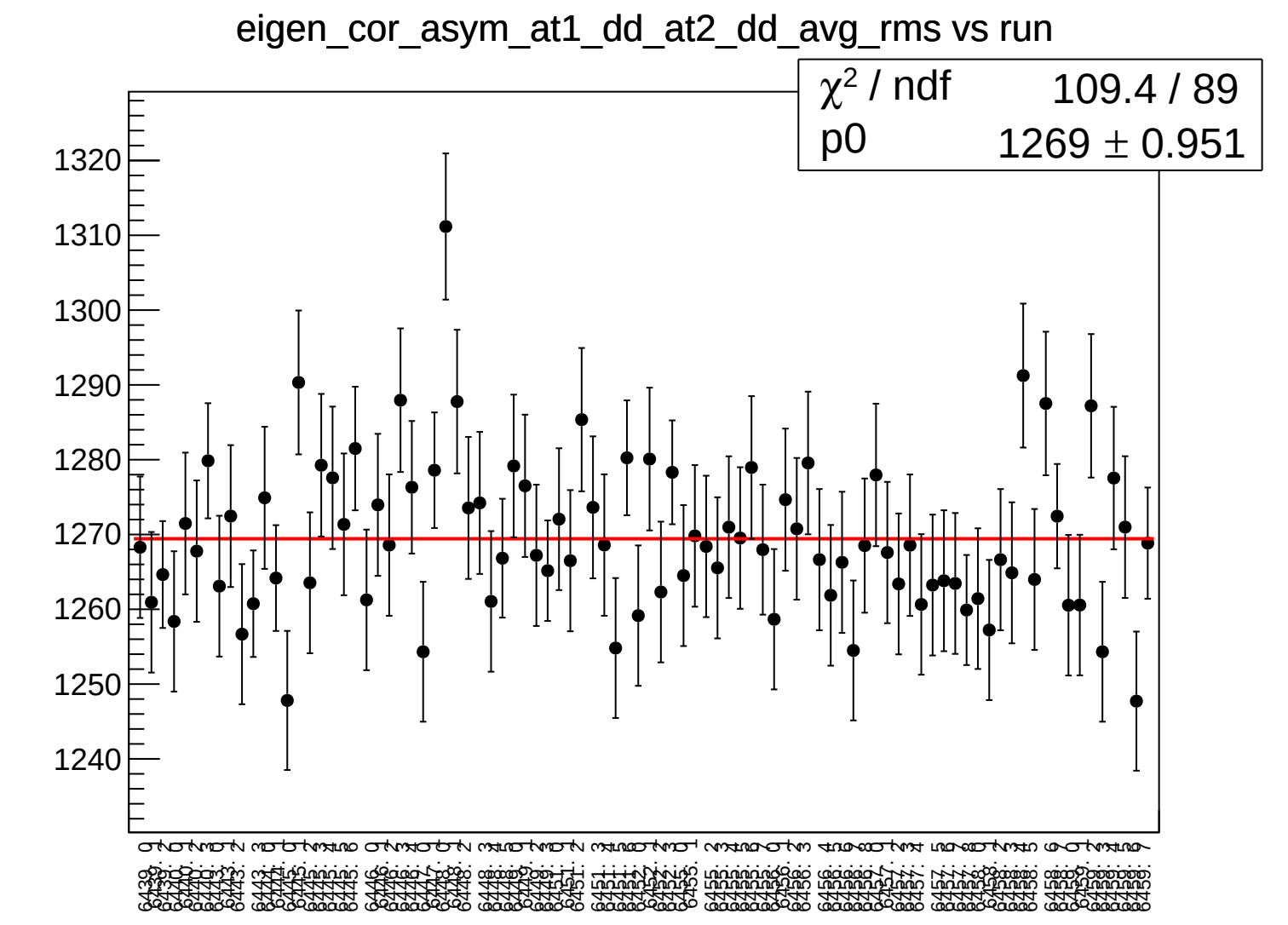

cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 109.4 / 89
p0 1269 ± 0.951
1320
1310
1300
1290
1280
1270
1260
1250
1240

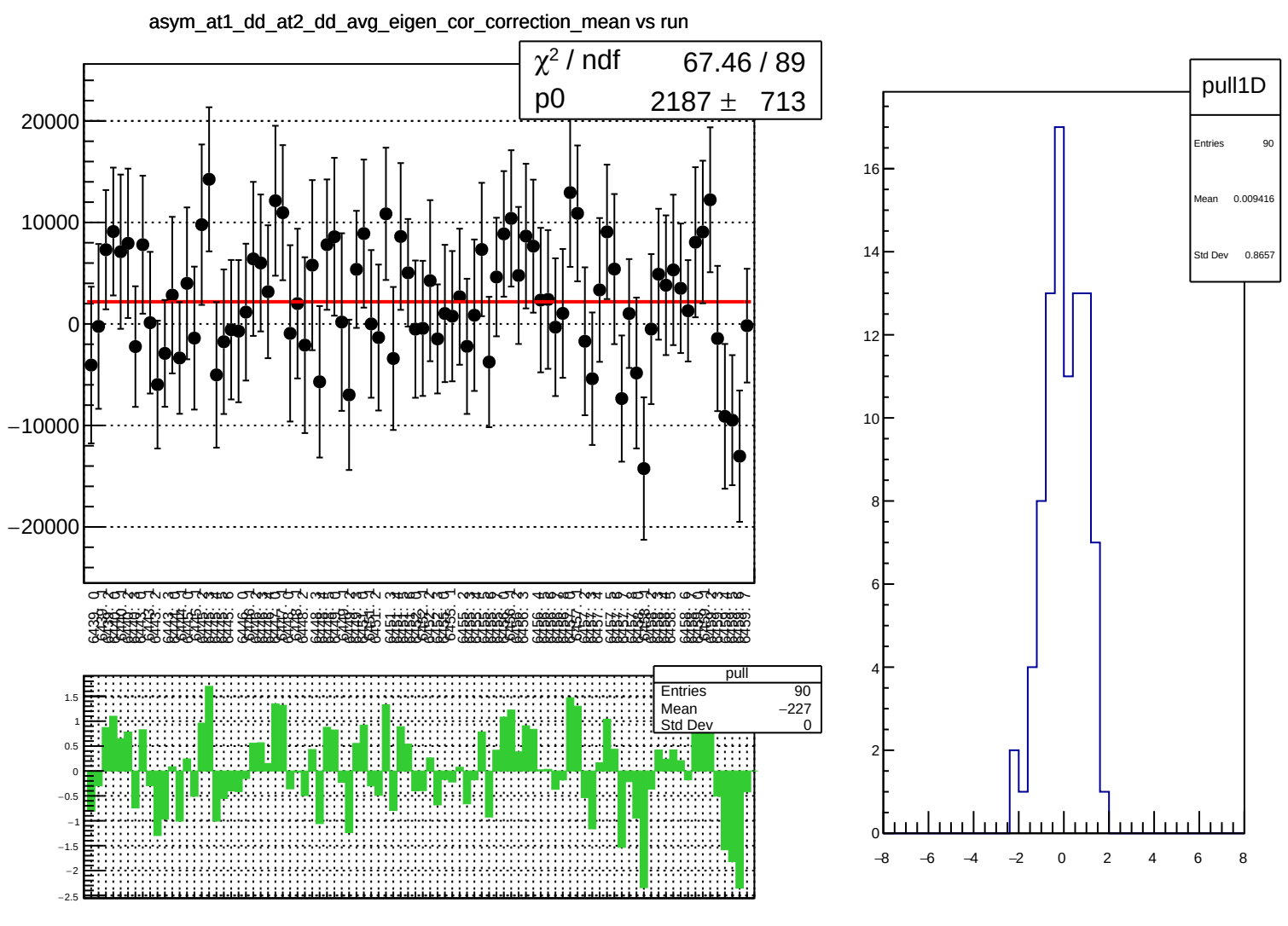

asym_at1_dd_at2_dd_avg_cor_correction_mean vs run
χ² / ndf 67.46 / 89
p0 2187 ± 713
20000
10000
0
−10000
−20000
pull
Entries 90
Mean −227
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

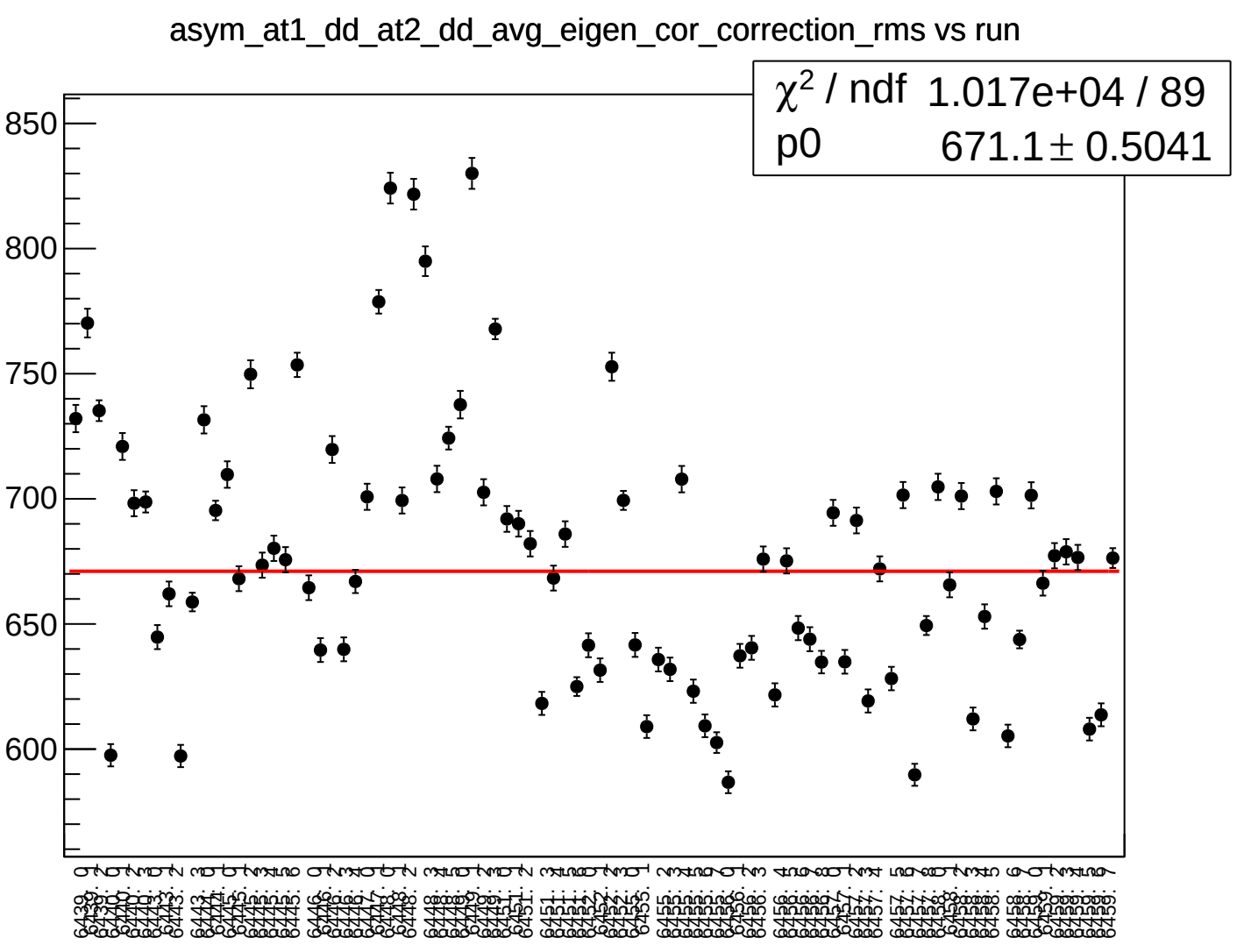

pull1D
Entries 90
Mean 0.009416
Std Dev 0.8657
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

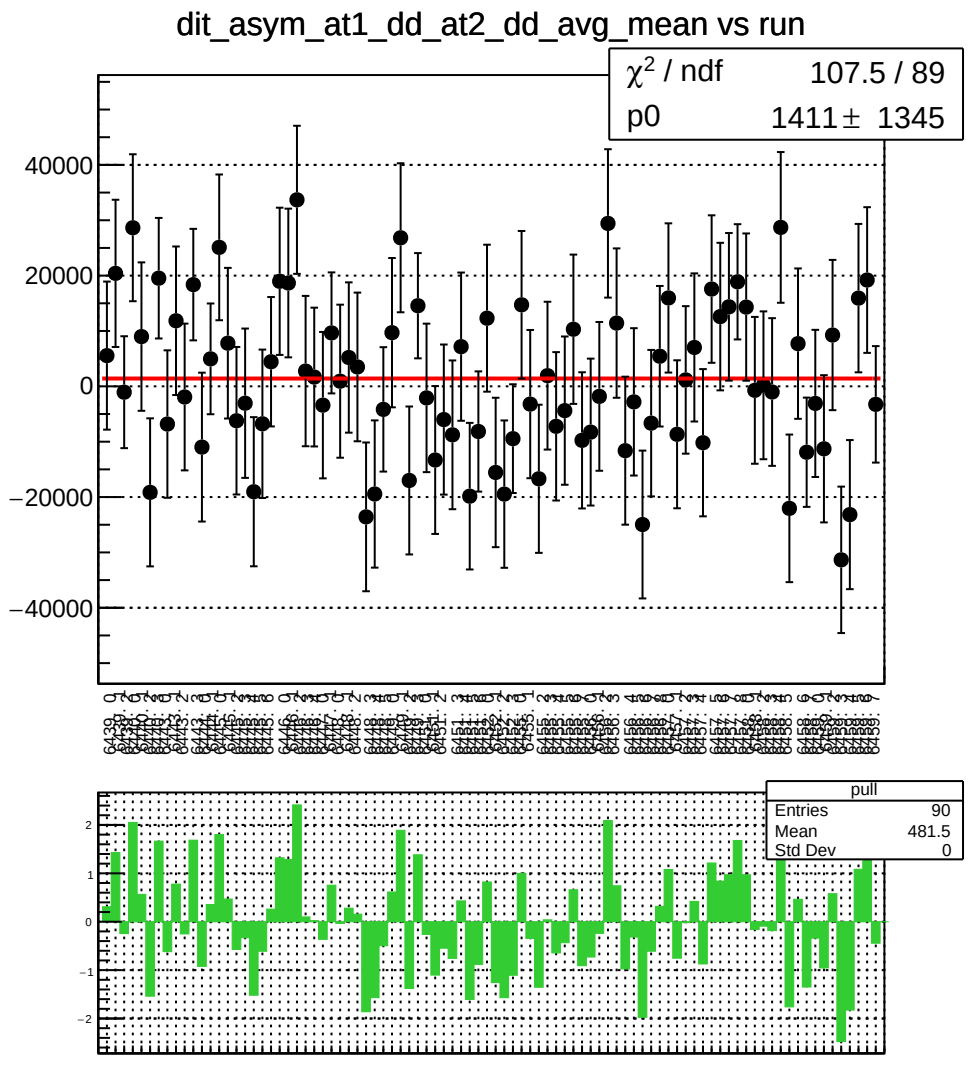

asym_at1_dd_at2_dd_avg_cor_correction_rms vs run
χ² / ndf 1.017e+04 / 89
p0 671.1 ± 0.5041
850
800
750
700
650
600

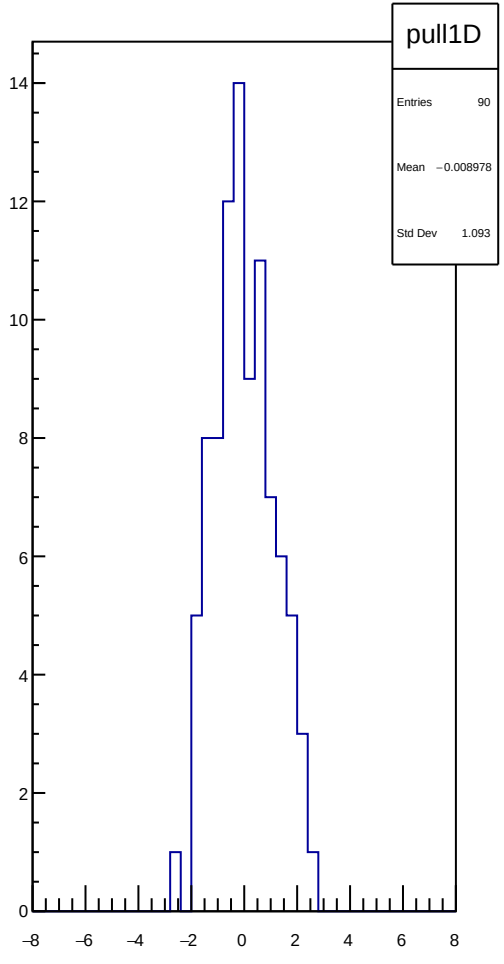

eigen_cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 106.7 / 89
p0 1343 ± 1345
40000
20000
0
−20000
−40000
pull
Entries 90
Mean 478.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.00912
Std Dev 1.089
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

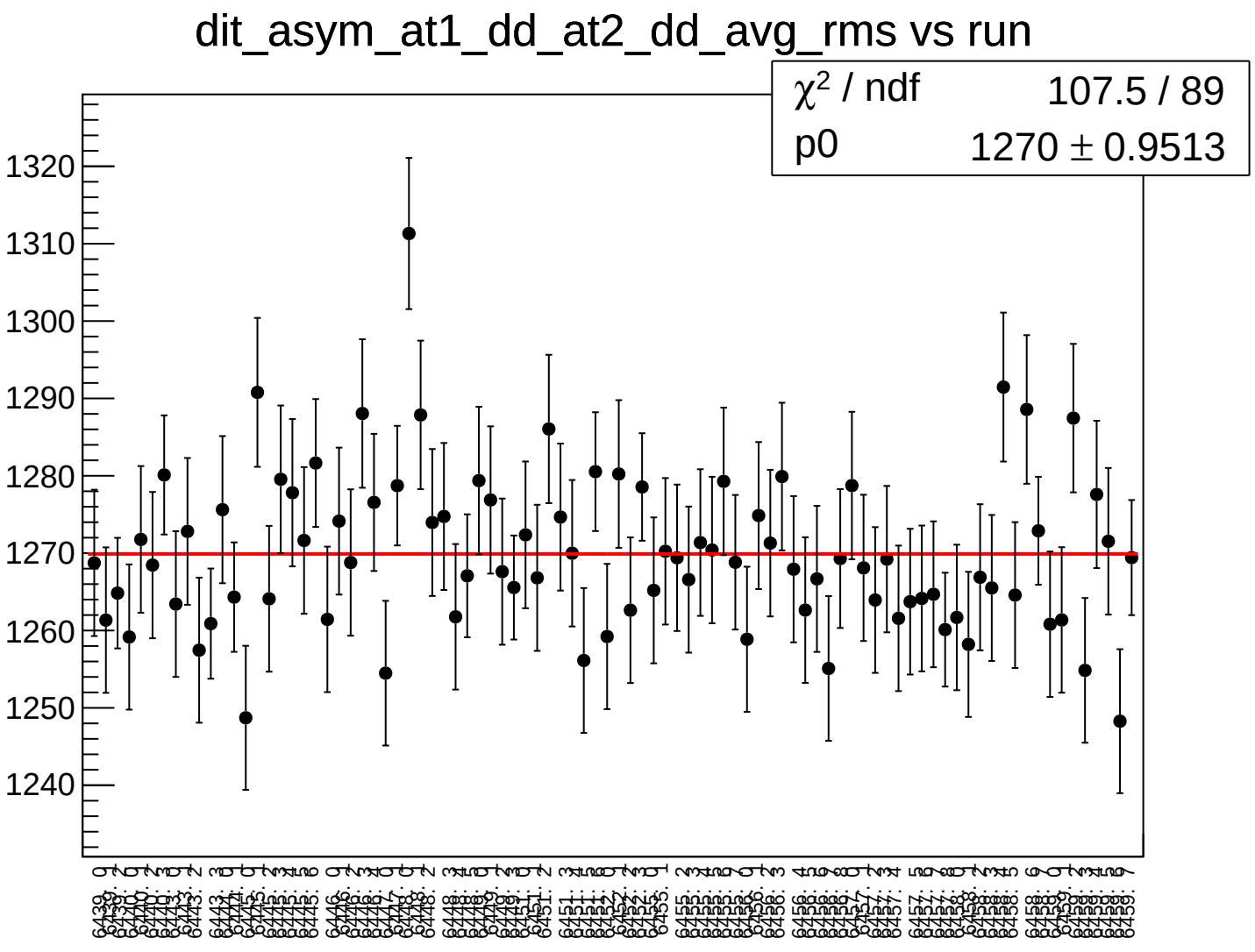

eigen_cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 109.4 / 89
p0 1269 ± 0.951
1320
1310
1300
1290
1280
1270
1260
1250
1240

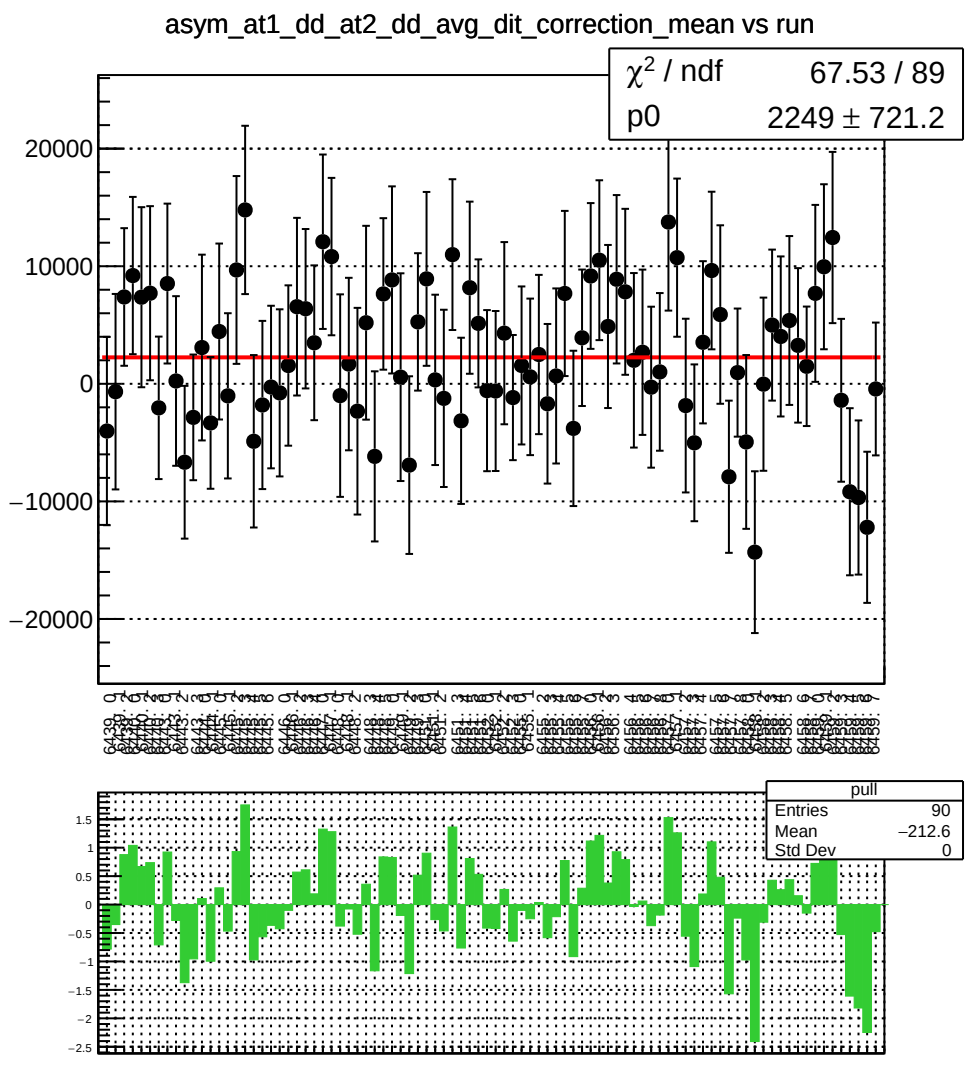

asym_at1_dd_at2_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 67.46 / 89
p0 2187 ± 713
20000
10000
0
−10000
−20000
pull
Entries 90
Mean −227
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 90
Mean 0.009416
Std Dev 0.8657
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

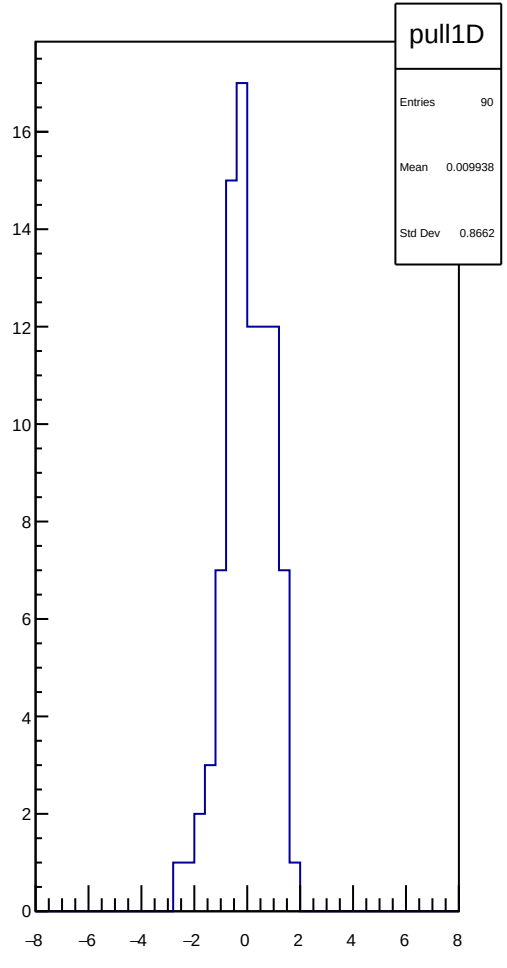

asym_at1_dd_at2_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.017e+04 / 89
p0 671.1 ± 0.5041
850
800
750
700
650
600

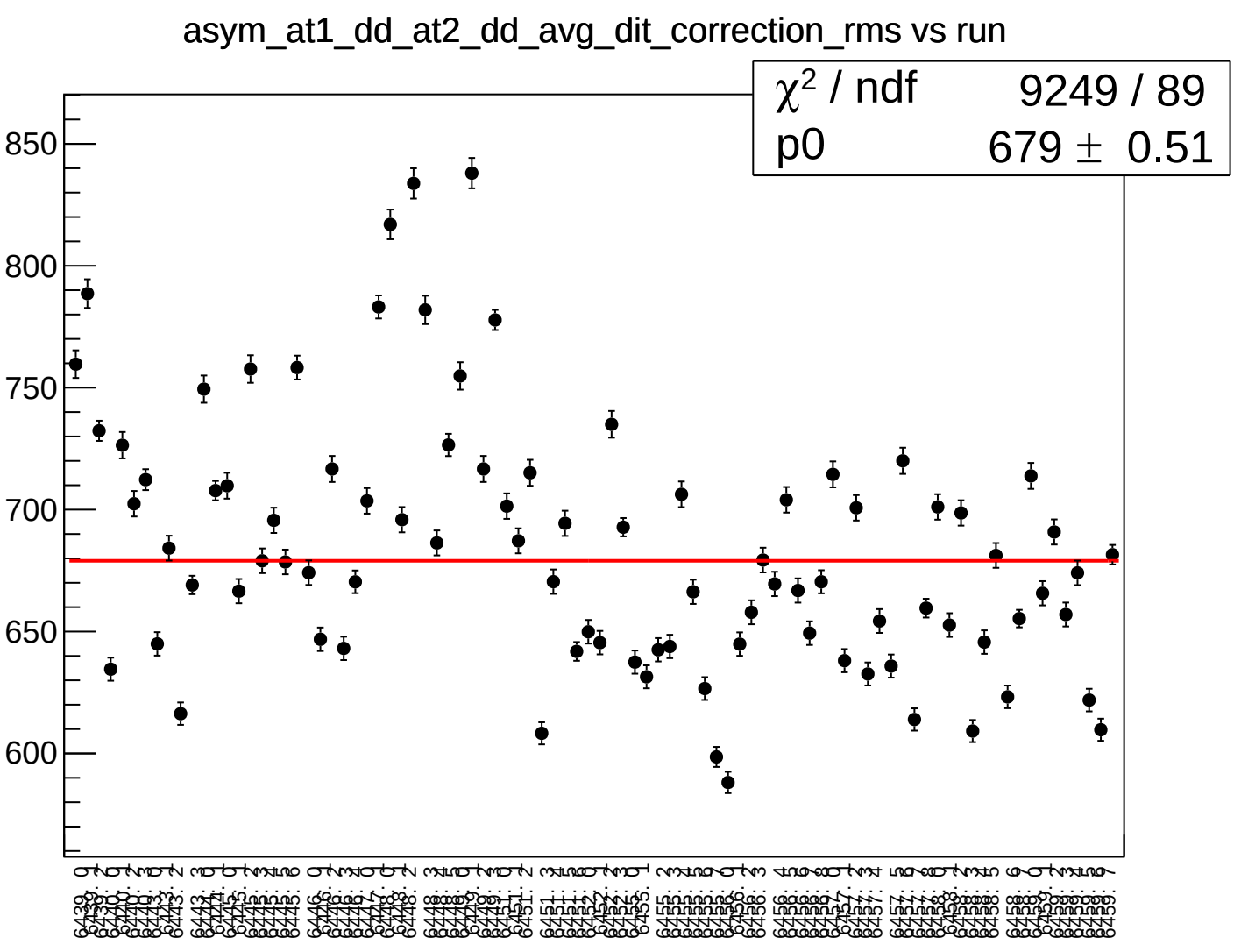

dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 107.5 / 89
p0 1411 ± 1345
40000
20000
0
−20000
−40000
pull
Entries 90
Mean 481.5
Std Dev 0
2
1
0
−1
−2

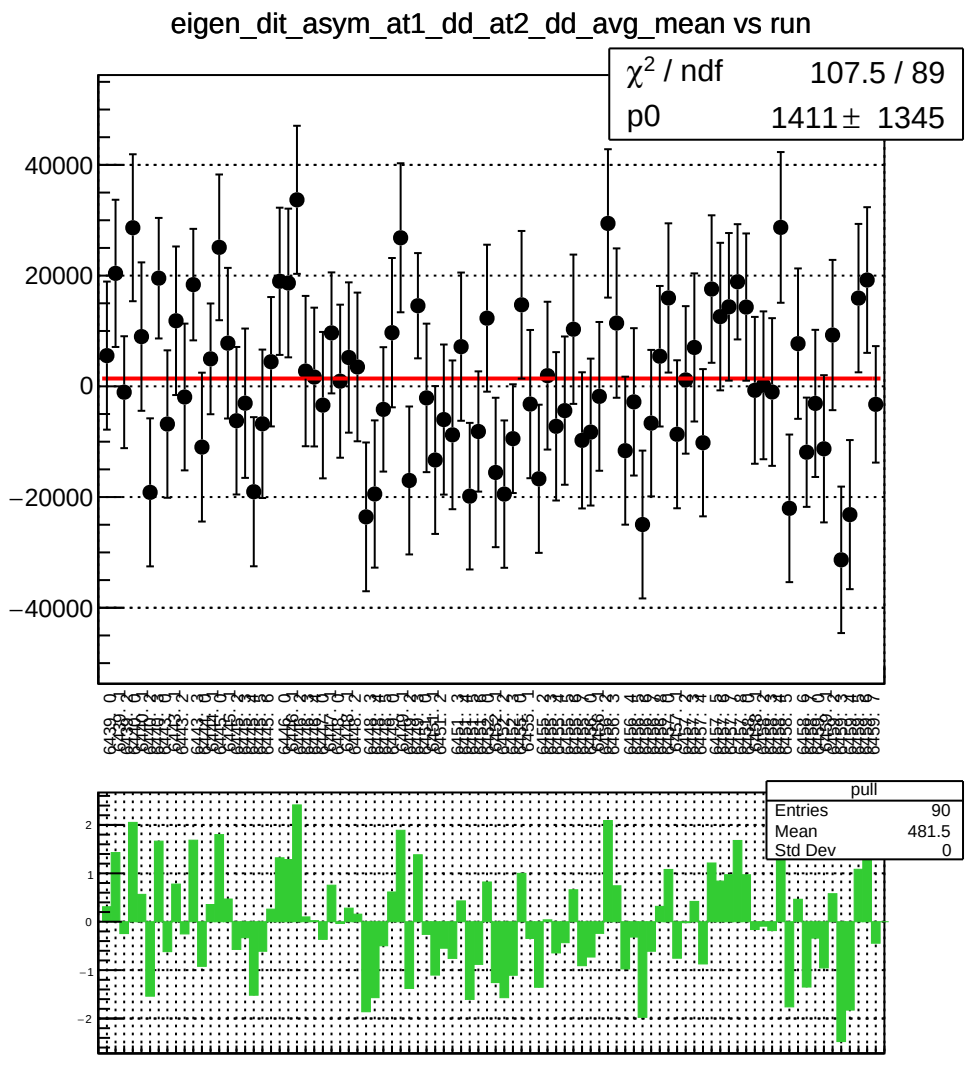

pull1D
Entries 90
Mean −0.008978
Std Dev 1.093
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

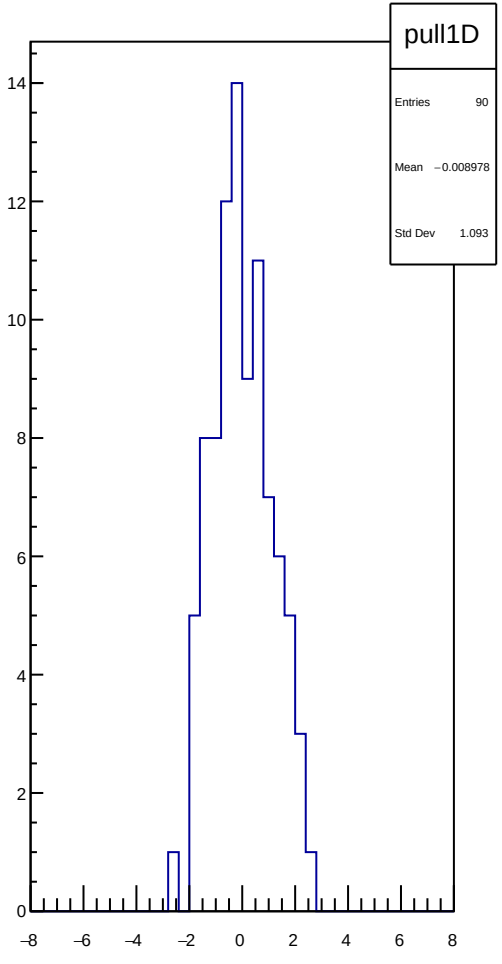

dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 107.5 / 89
p0 1270 ± 0.9513
1320
1310
1300
1290
1280
1270
1260
1250
1240

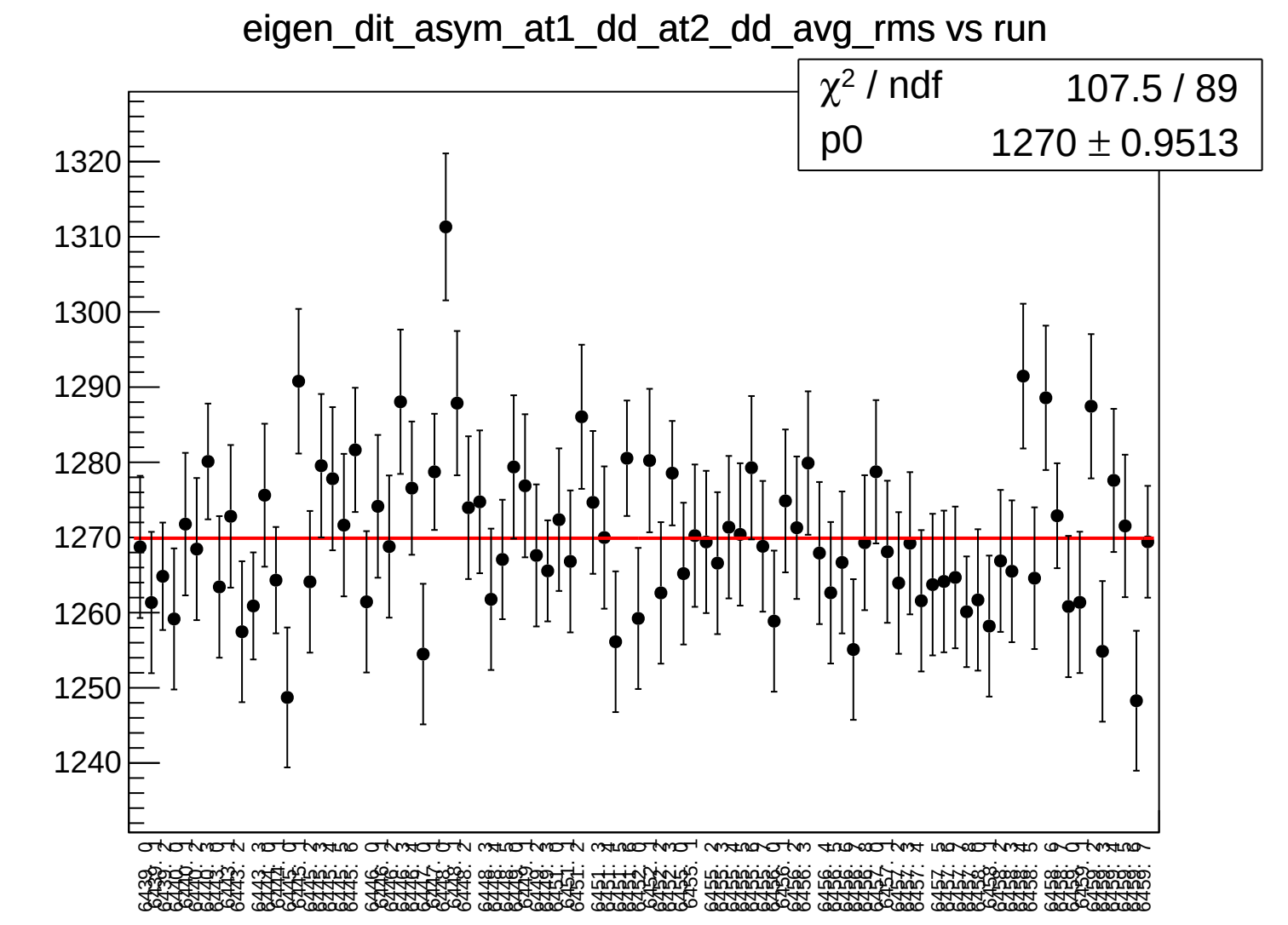

asym_at1_dd_at2_dd_avg_dit_correction_mean vs run
χ² / ndf 67.53 / 89
p0 2249 ± 721.2
20000
10000
0
−10000
−20000
pull
Entries 90
Mean −212.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

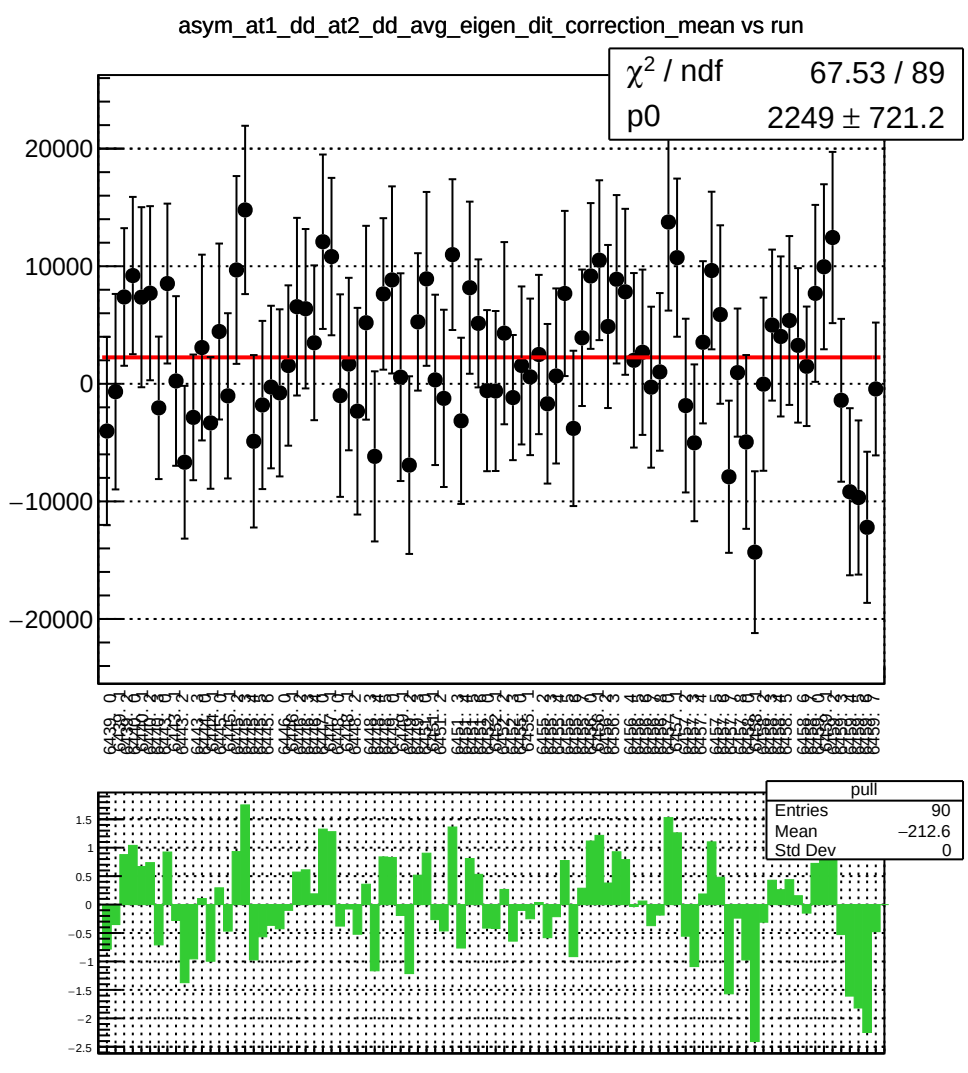

pull1D
Entries 90
Mean 0.009938
Std Dev 0.8662
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

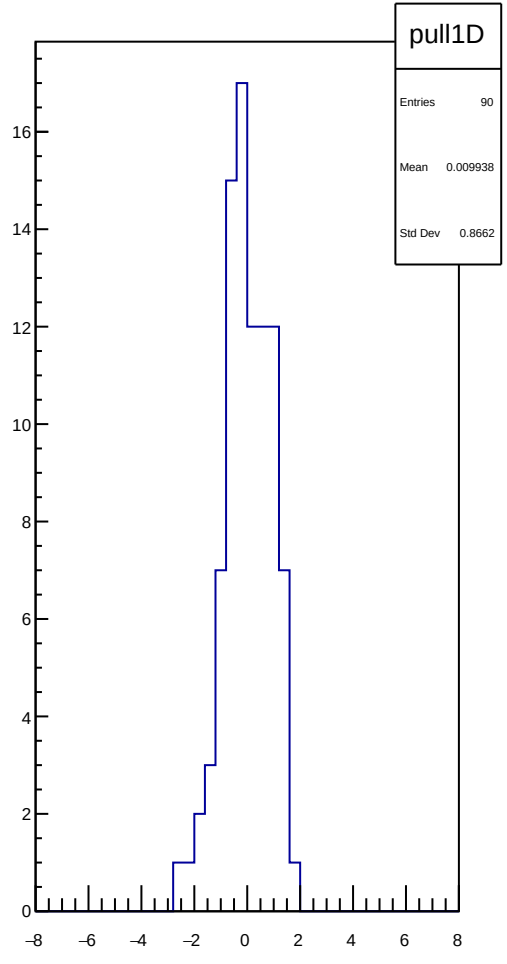

asym_at1_dd_at2_dd_avg_dit_correction_rms vs run
χ² / ndf 9249 / 89
p0 679 ± 0.51
850
800
750
700
650
600

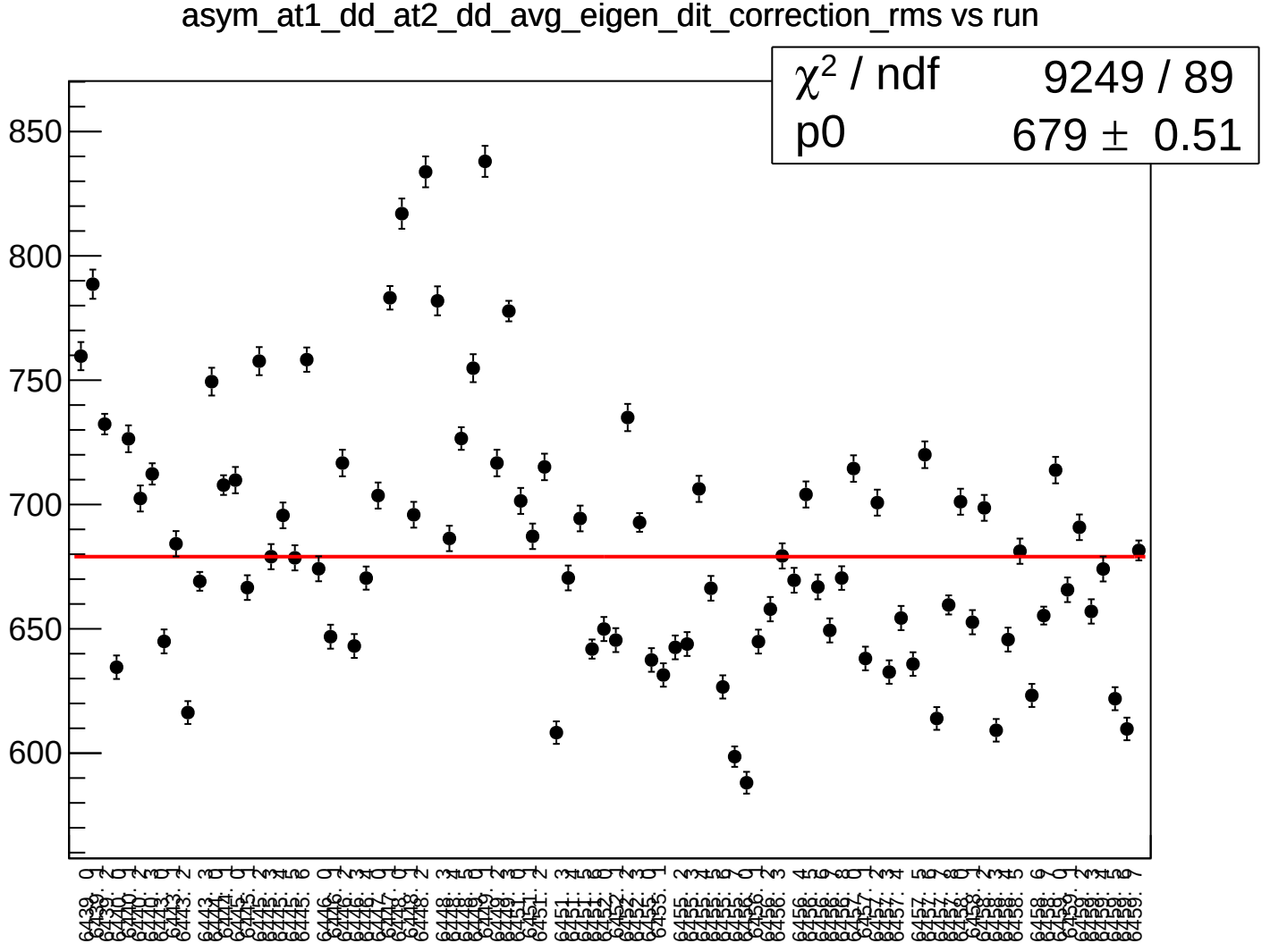

eigen_dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 107.5 / 89
p0 1411 ± 1345
40000
20000
0
−20000
−40000
pull
Entries 90
Mean 481.5
Std Dev 0
2
1
0
−1
−2

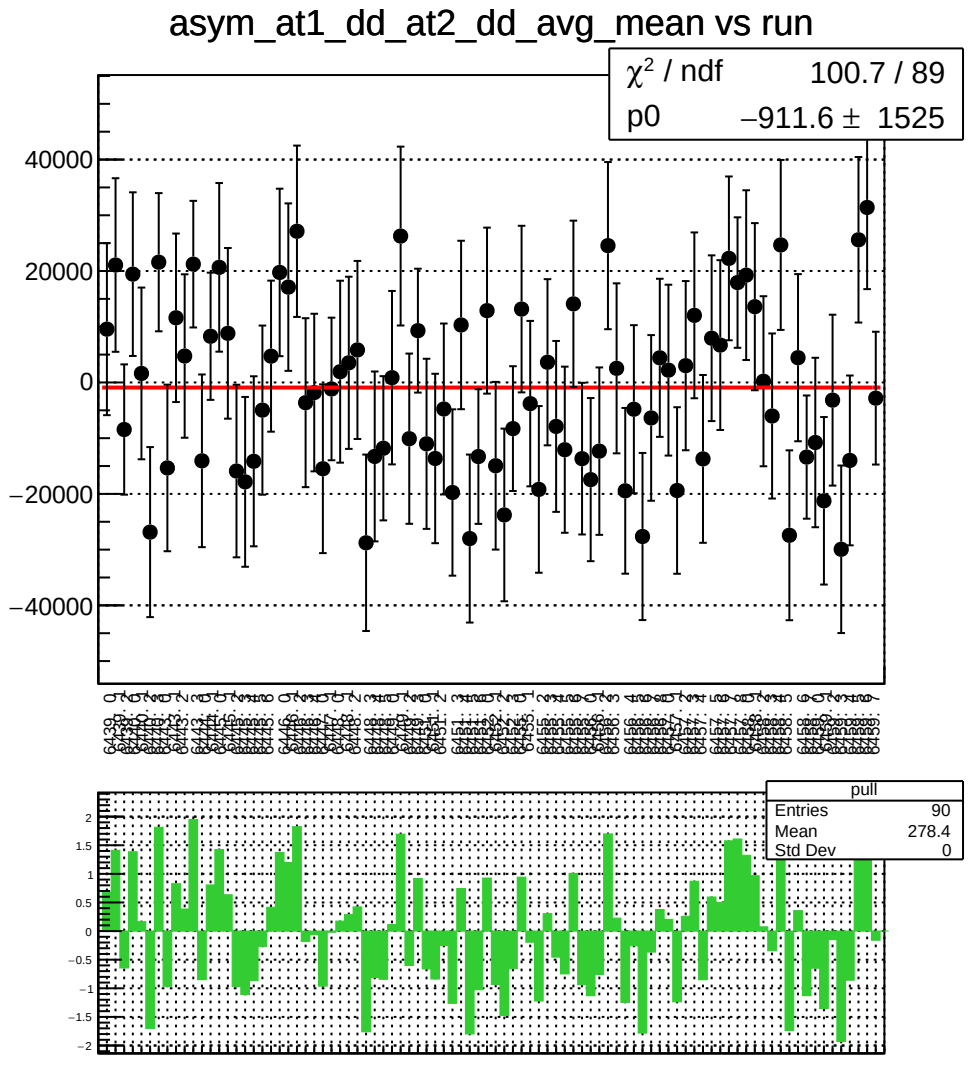

pull1D
Entries 90
Mean −0.008978
Std Dev 1.093
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

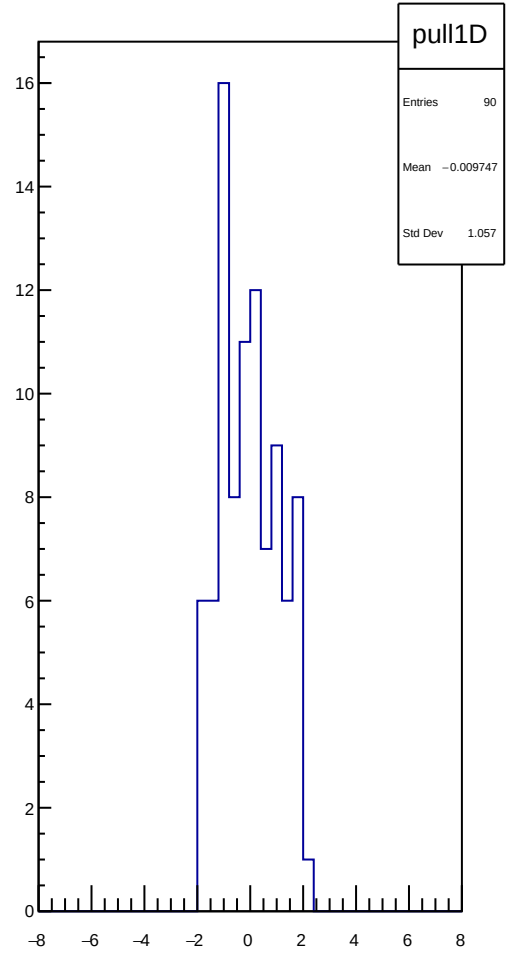

eigen_dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 107.5 / 89
p0 1270 ± 0.9513
1320
1310
1300
1290
1280
1270
1260
1250
1240

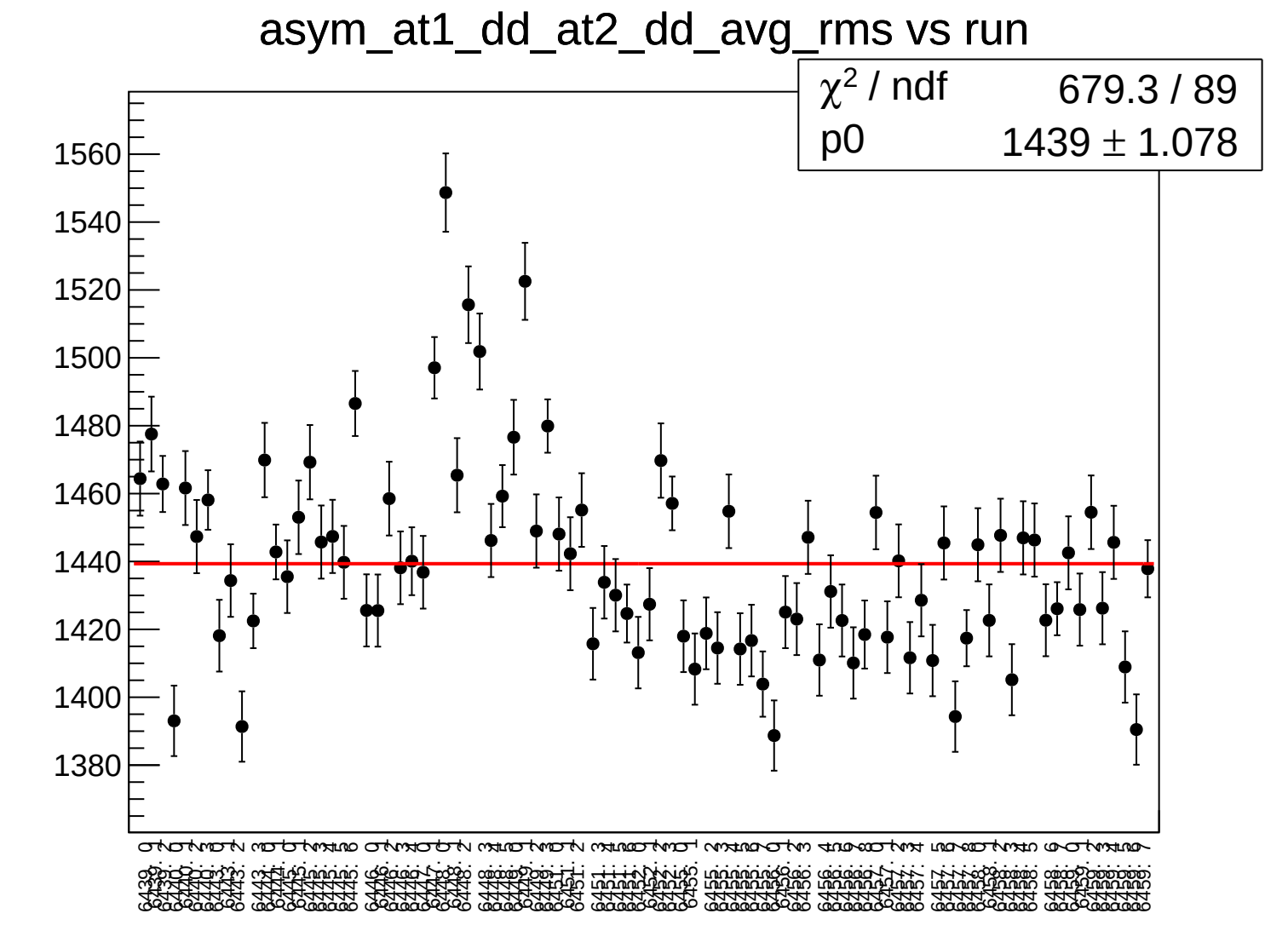

asym_at1_dd_at2_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 67.53 / 89
p0 2249 ± 721.2
20000
10000
0
−10000
−20000
pull
Entries 90
Mean −212.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

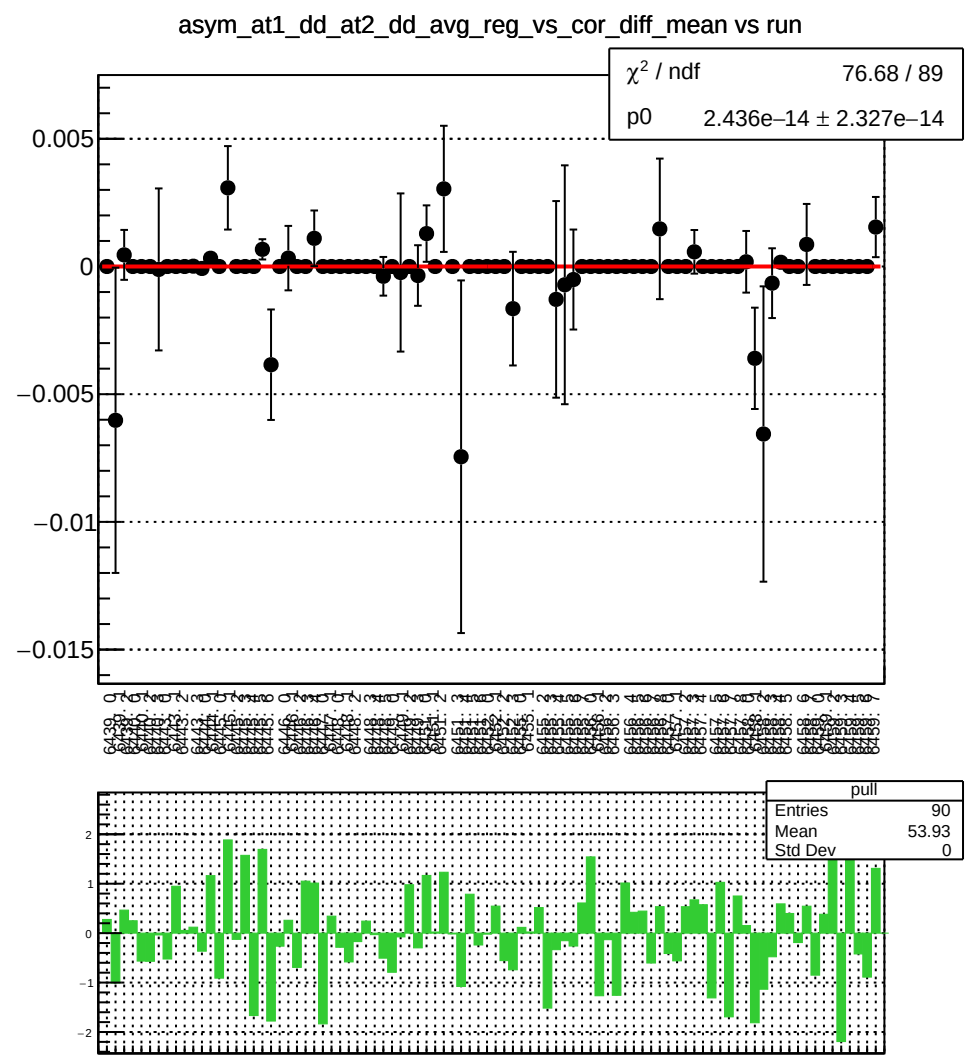

pull1D
Entries 90
Mean 0.009938
Std Dev 0.8662
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

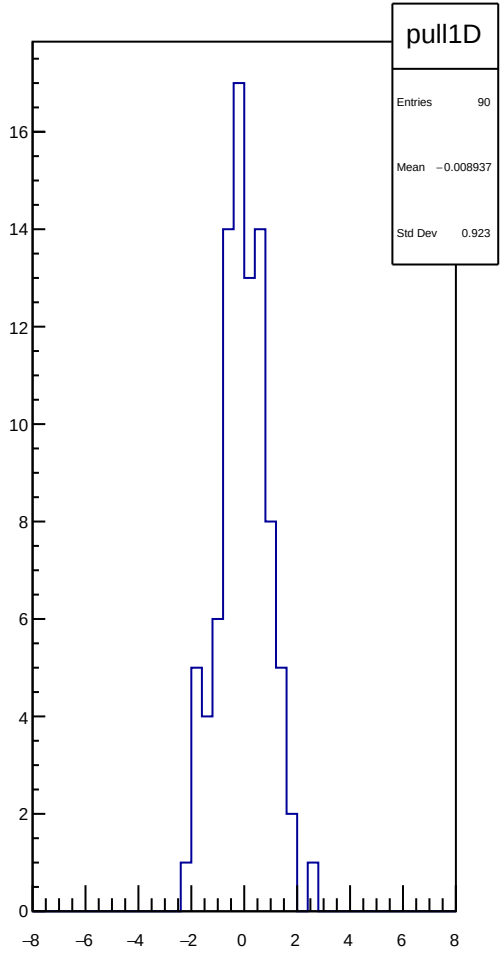

asym_at1_dd_at2_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 9249 / 89
p0 679 ± 0.51
850
800
750
700
650
600

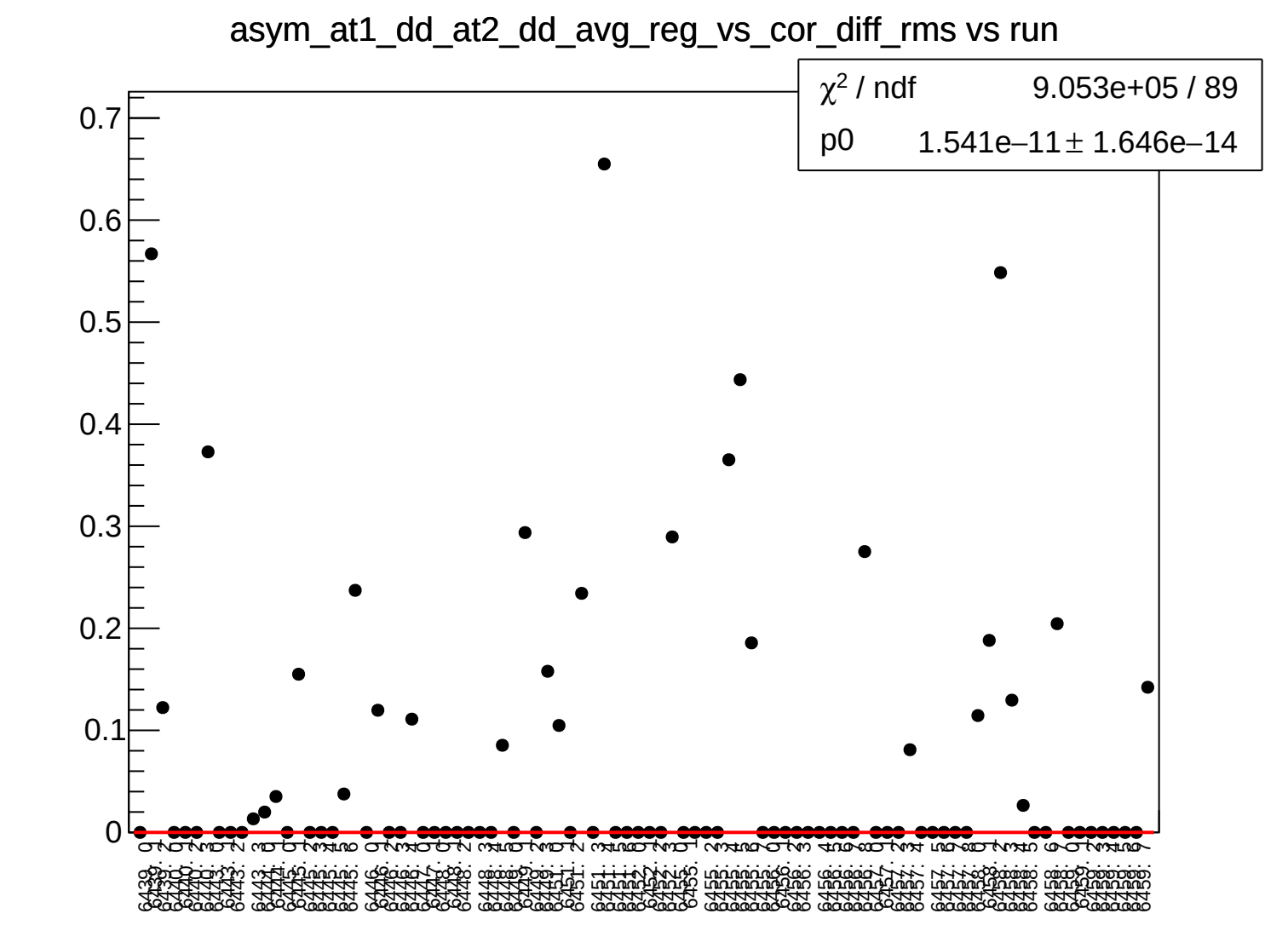

asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 100.7 / 89
p0 −911.6 ± 1525
40000
20000
0
−20000
−40000
pull
Entries 90
Mean 278.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

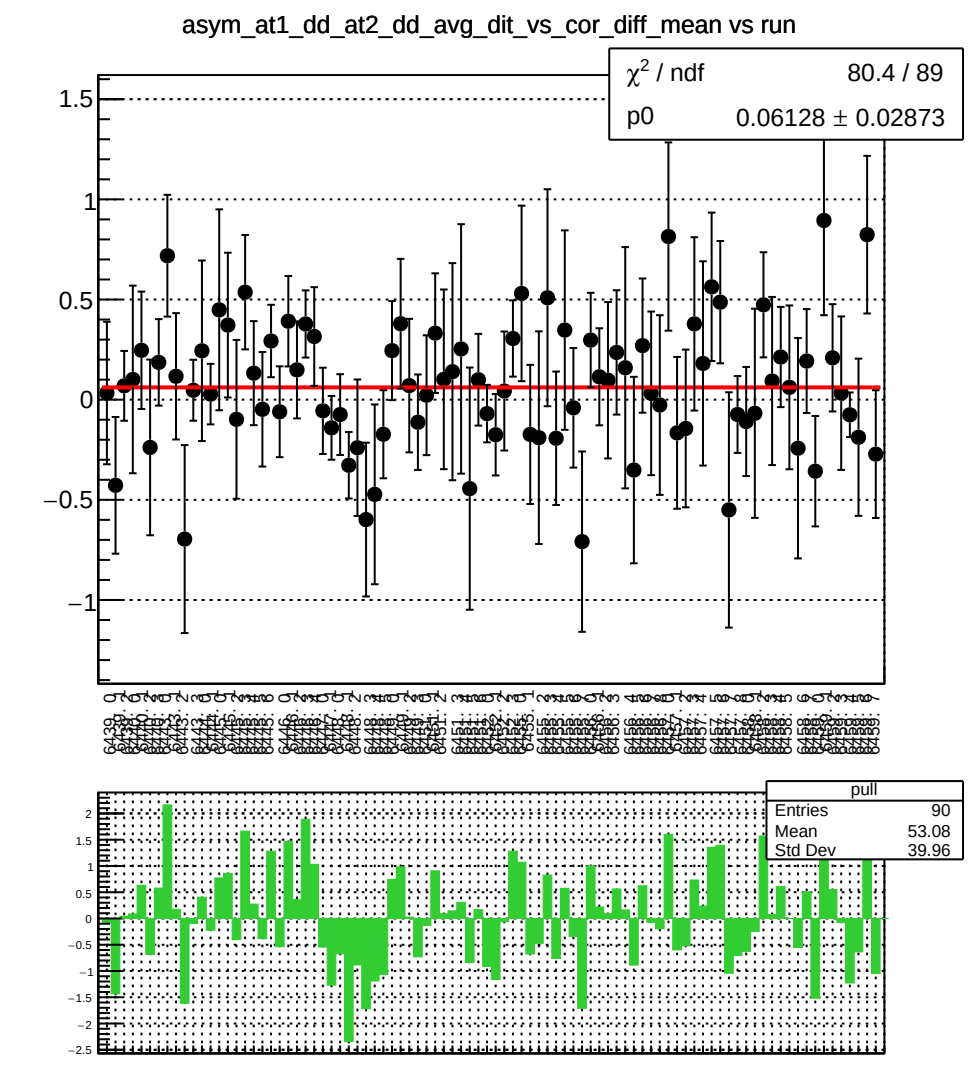

pull1D
Entries 90
Mean −0.009747
Std Dev 1.057
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

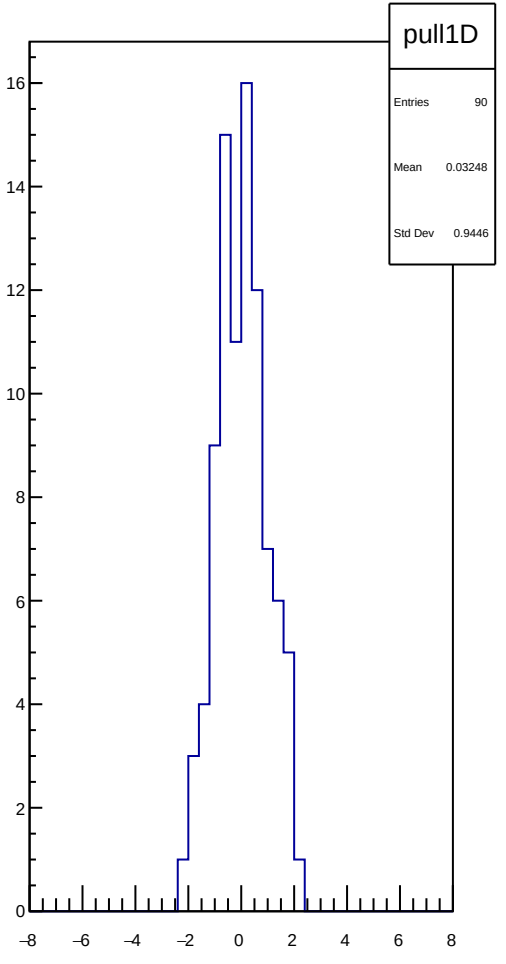

asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 679.3 / 89
p0 1439 ± 1.078
1560
1540
1520
1500
1480
1460
1440
1420
1400
1380

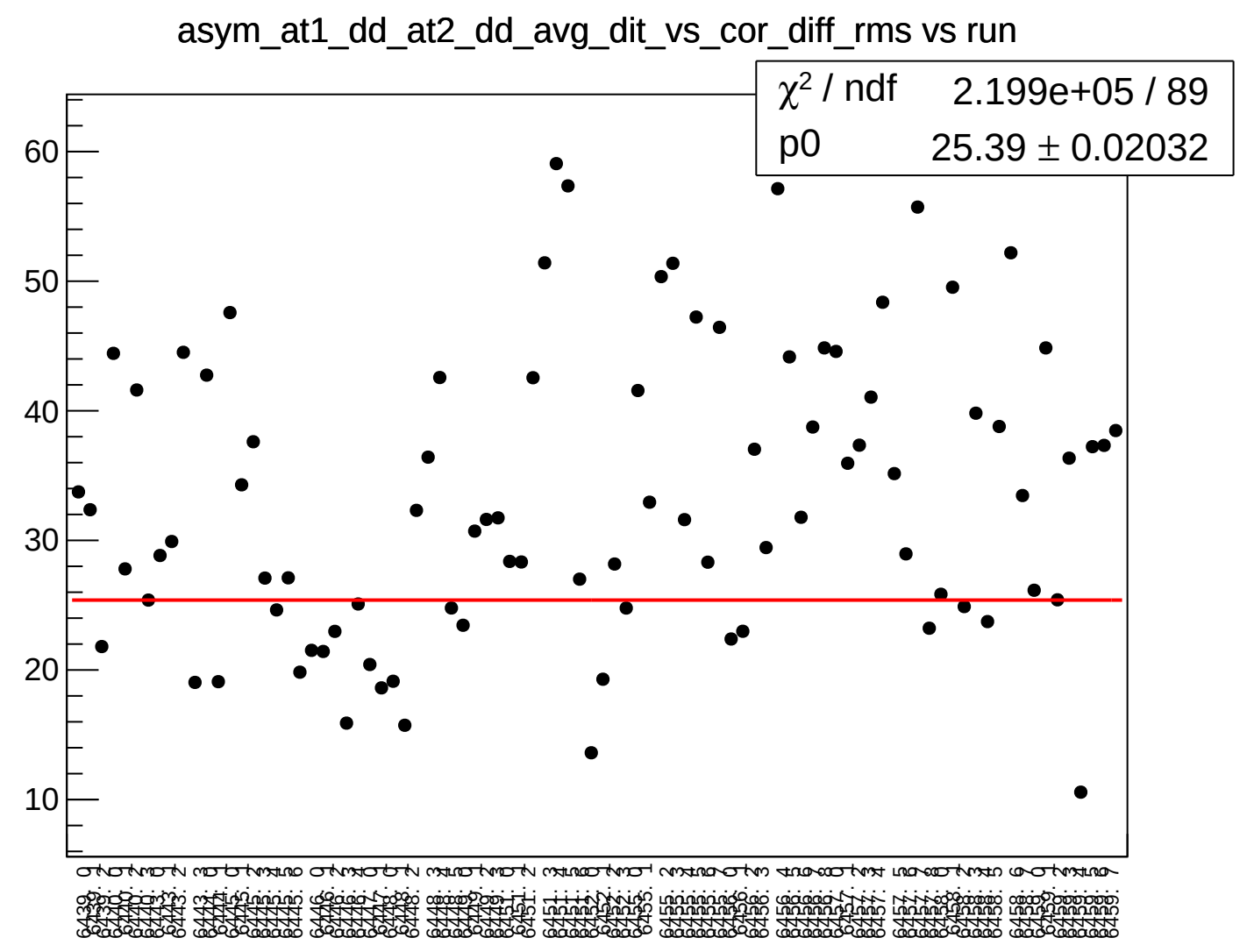

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 76.68 / 89
p0 2.436e−14 ± 2.327e−14
0.005
0
−0.005
−0.01
−0.015
pull
Entries 90
Mean 53.93
Std Dev 0
2
1
0
−1
−2

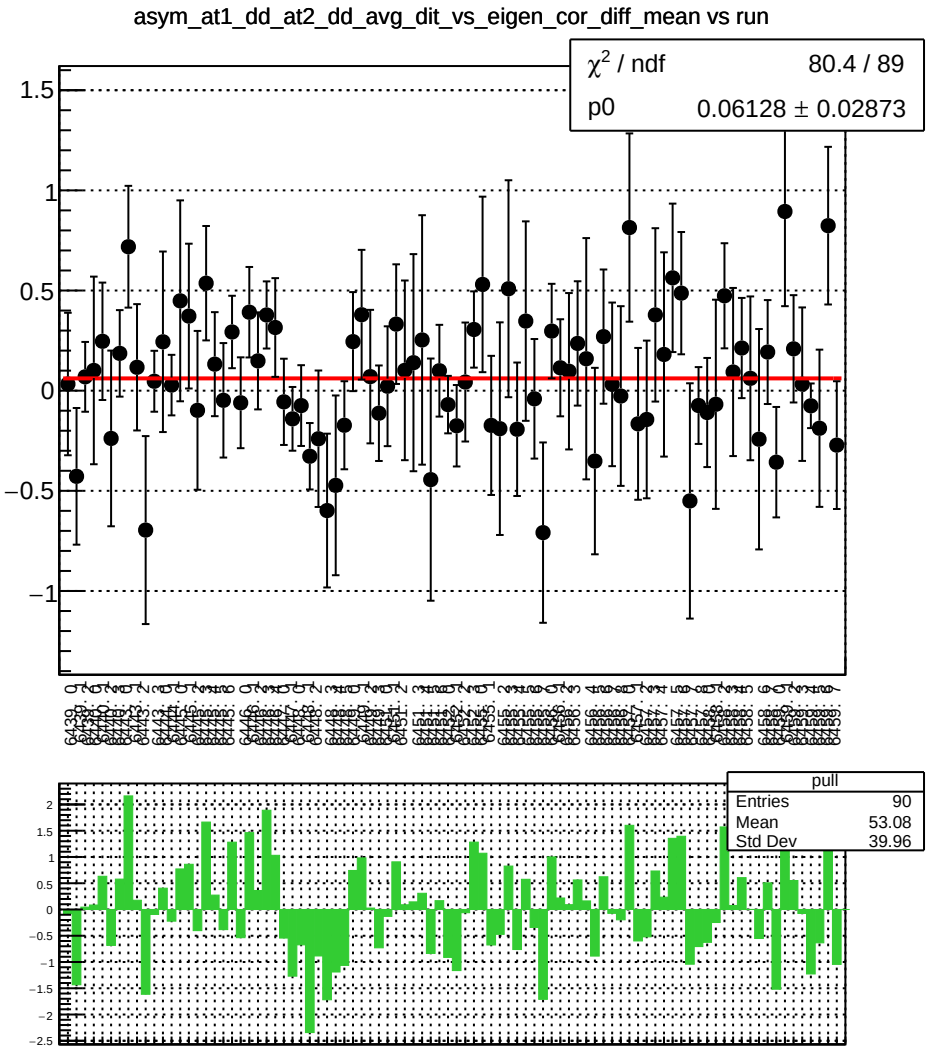

pull1D
Entries 90
Mean −0.008937
Std Dev 0.923
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

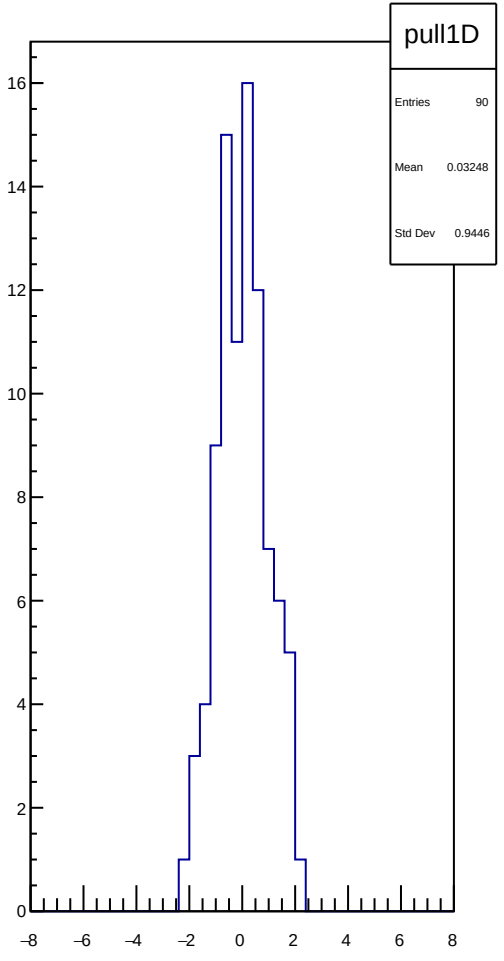

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.053e+05 / 89
p0 1.541e−11 ± 1.646e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

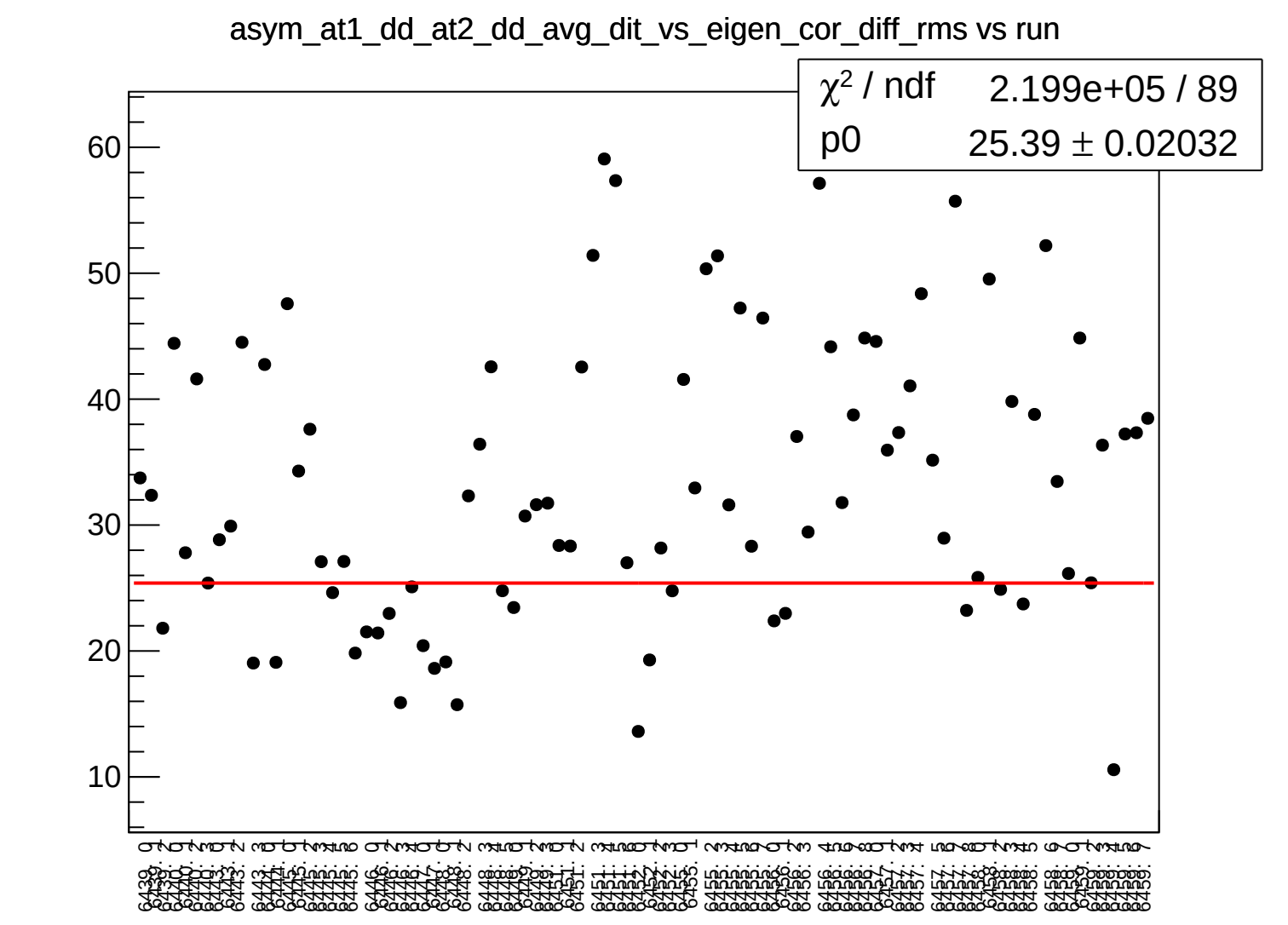

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 80.4 / 89
p0 0.06128 ± 0.02873
pull
Entries 90
Mean 53.08
Std Dev 39.96

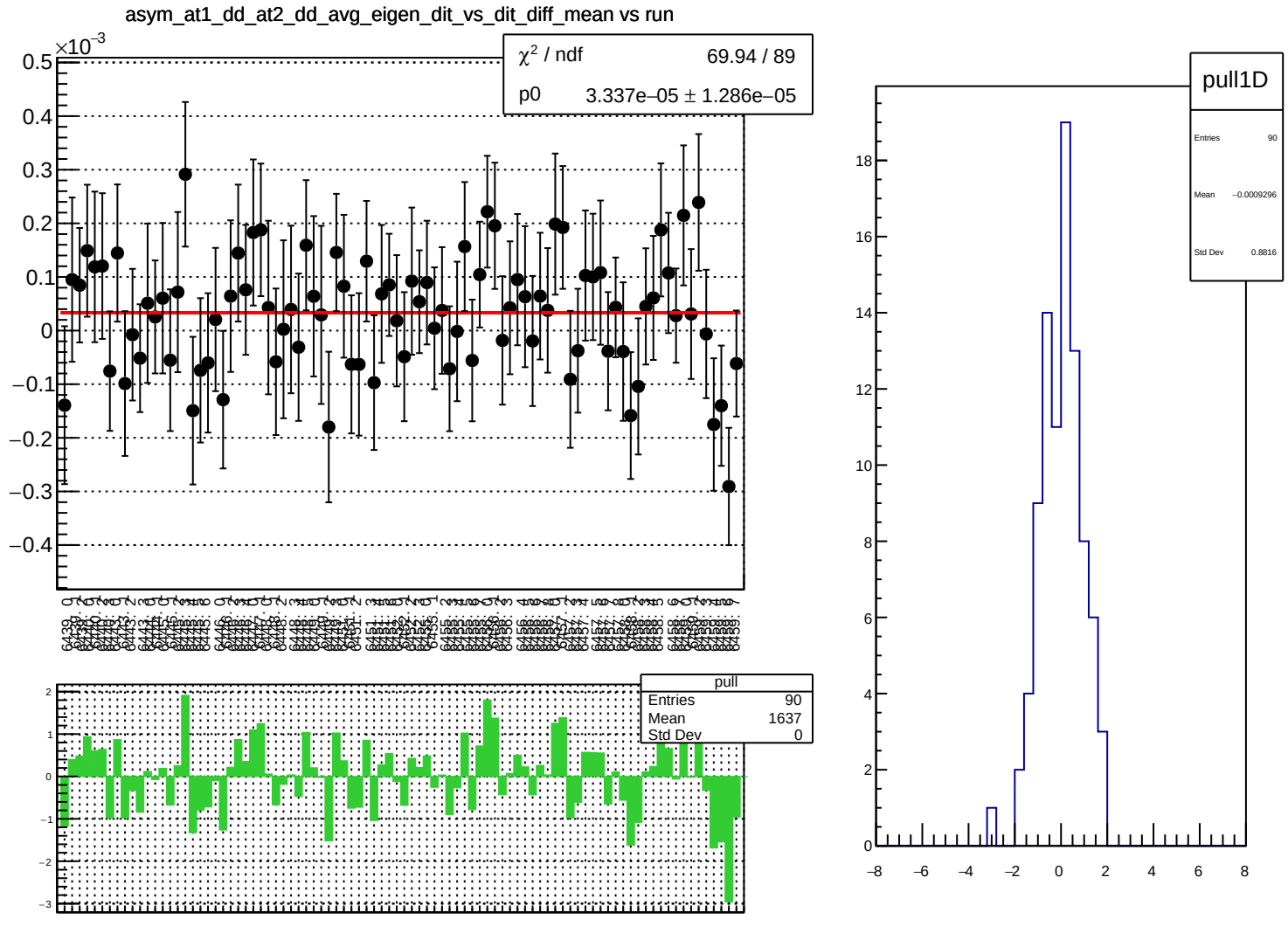

pull1D
Entries 90
Mean 0.03248
Std Dev 0.9446

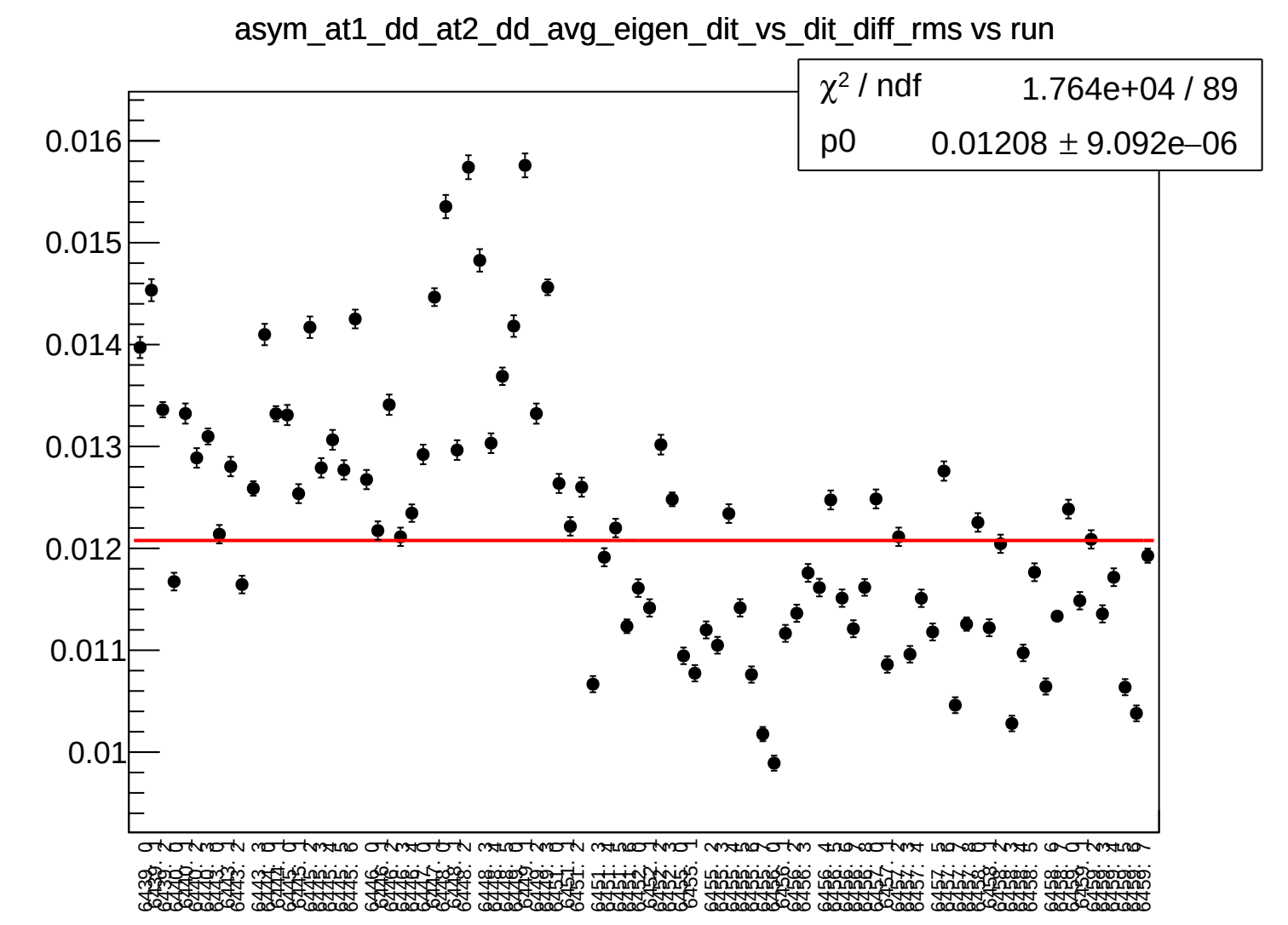

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.199e+05 / 89
p0 25.39 ± 0.02032
60
50
40
30
20
10

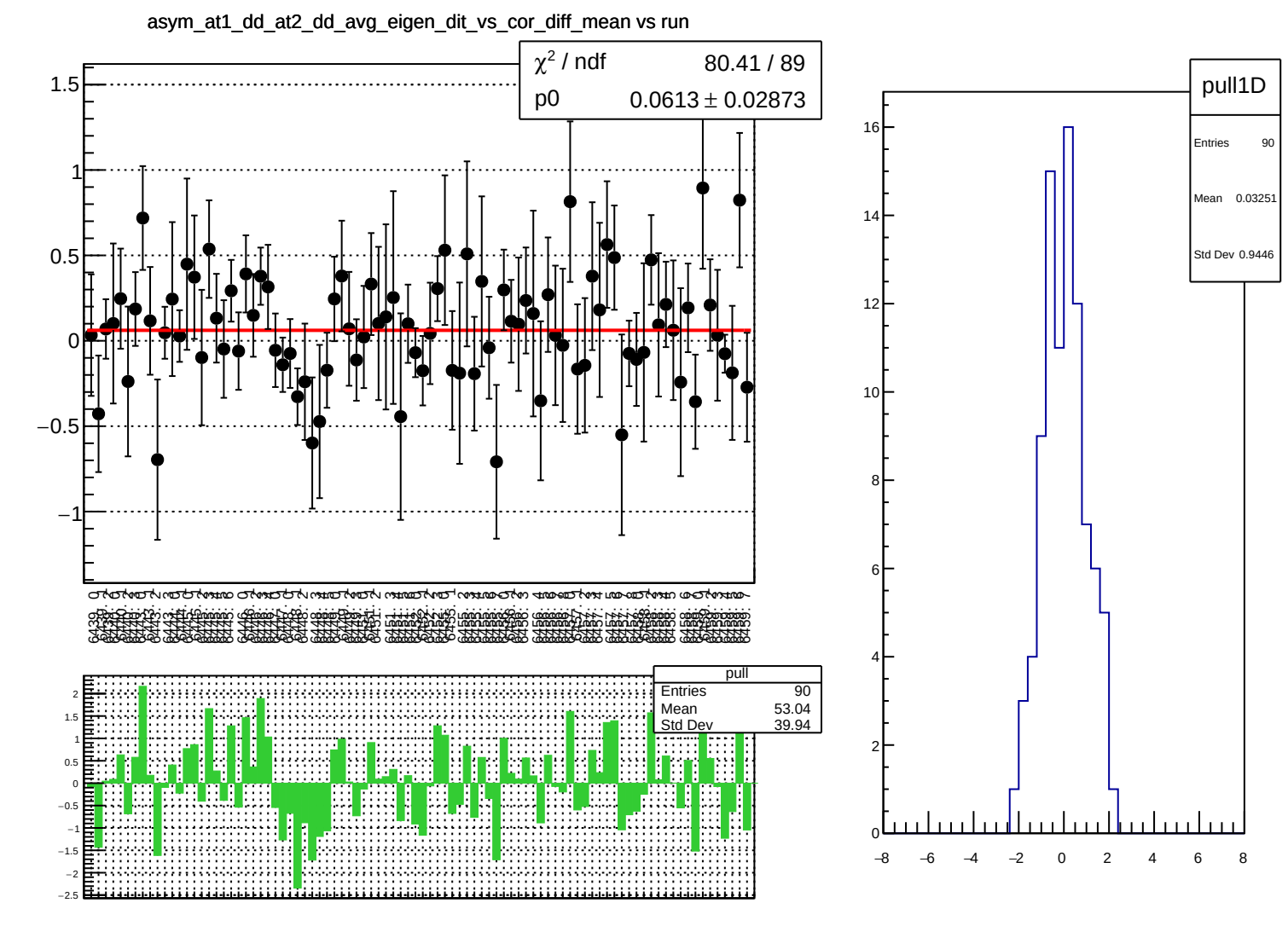

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.4 / 89
p0 0.06128 ± 0.02873
pull
Entries 90
Mean 53.08
Std Dev 39.96

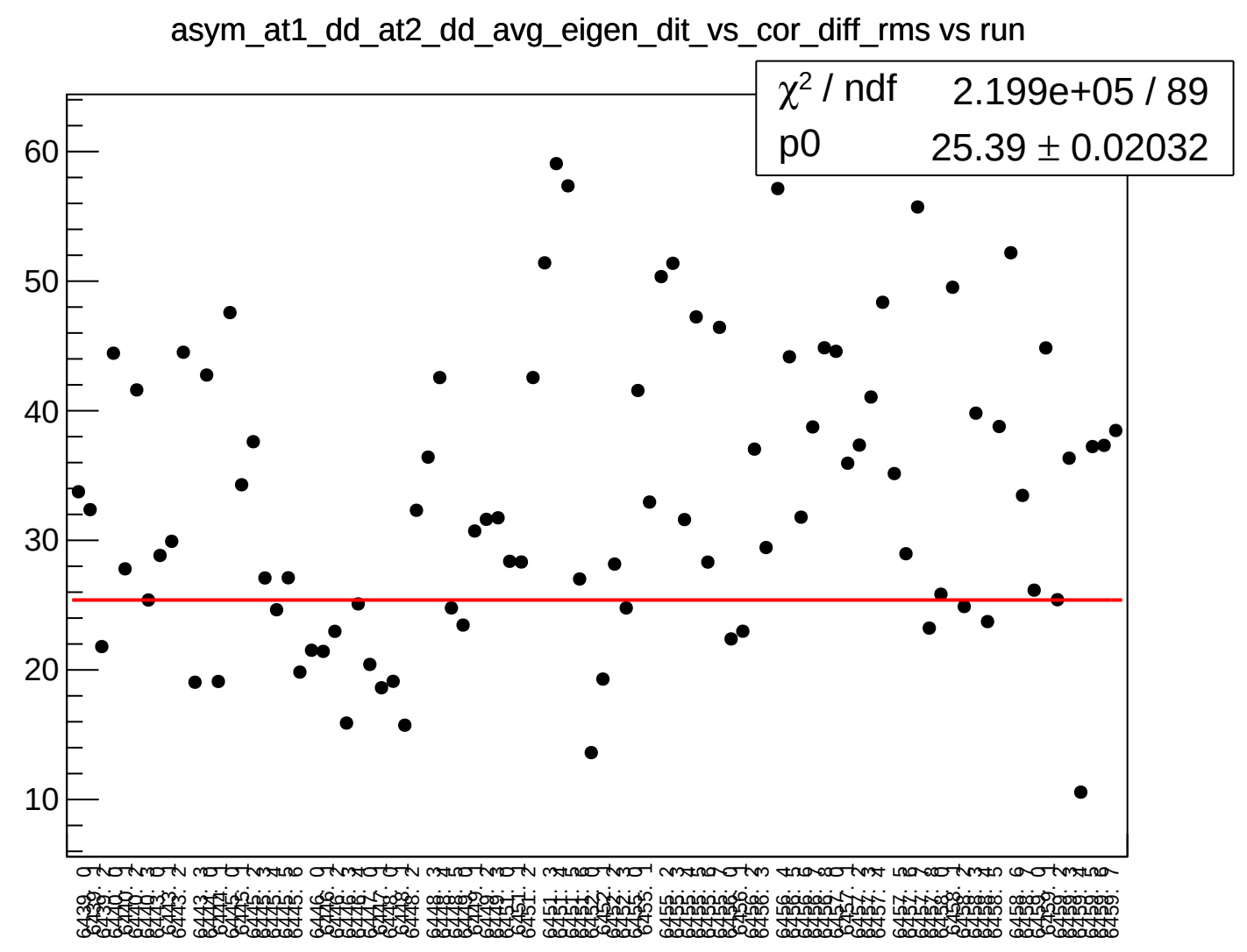

pull1D
Entries 90
Mean 0.03248
Std Dev 0.9446

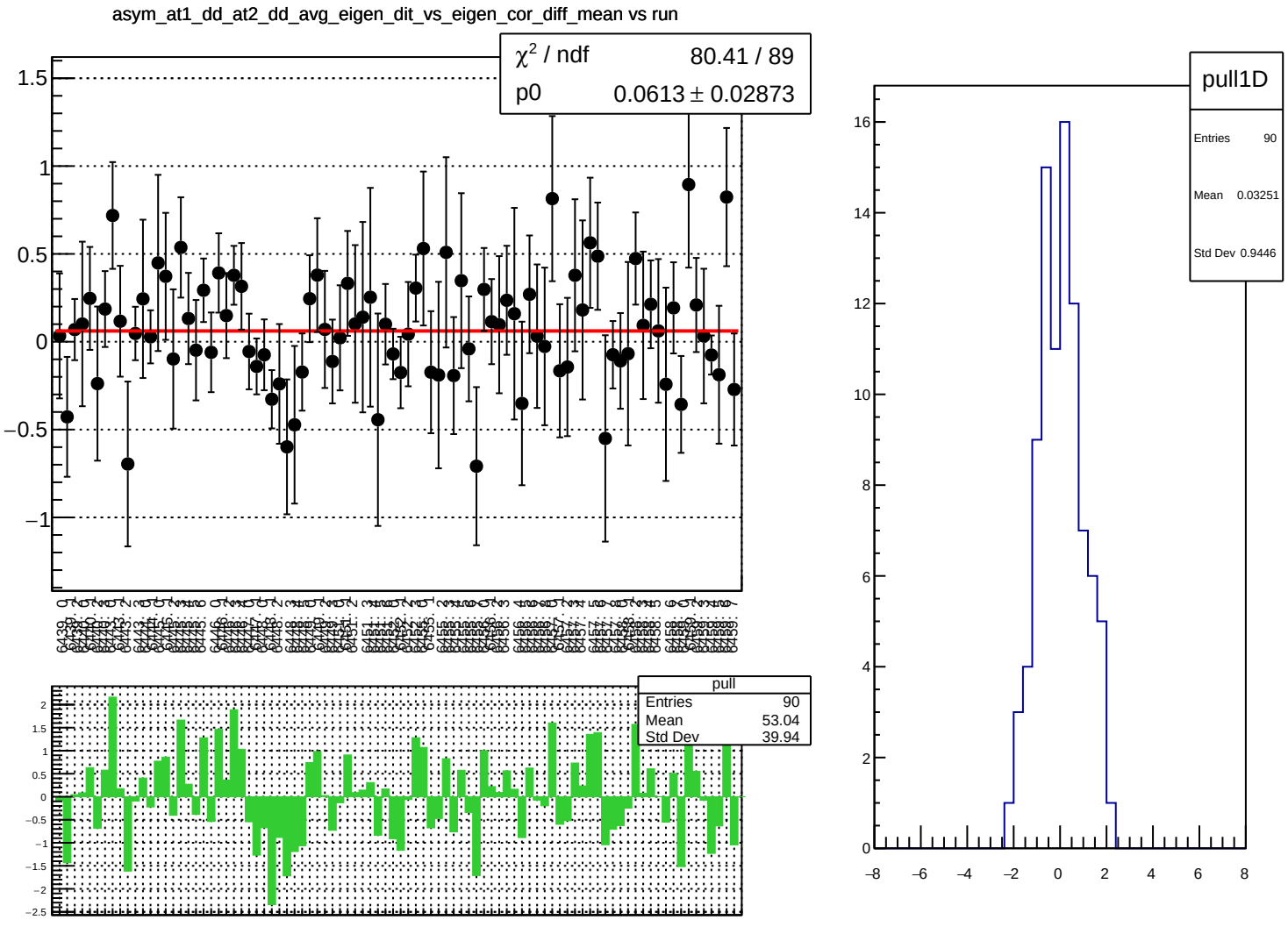

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.199e+05 / 89
p0 25.39 ± 0.02032
60
50
40
30
20
10

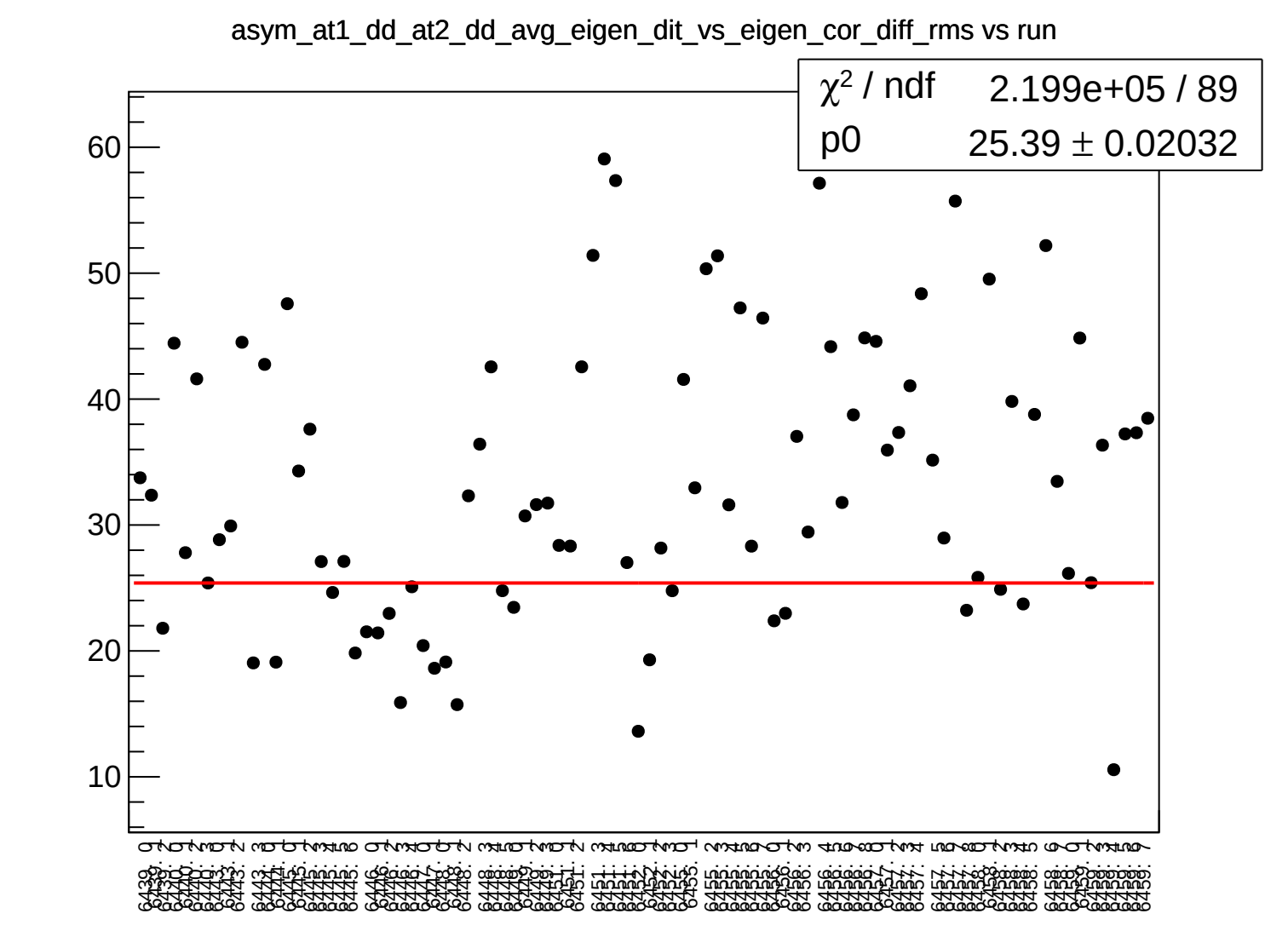

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 69.94 / 89
p0 3.337e−05 ± 1.286e−05
pull
Entries 90
Mean 1637
Std Dev 0
pull1D
Entries 90
Mean −0.0009296
Std Dev 0.8816

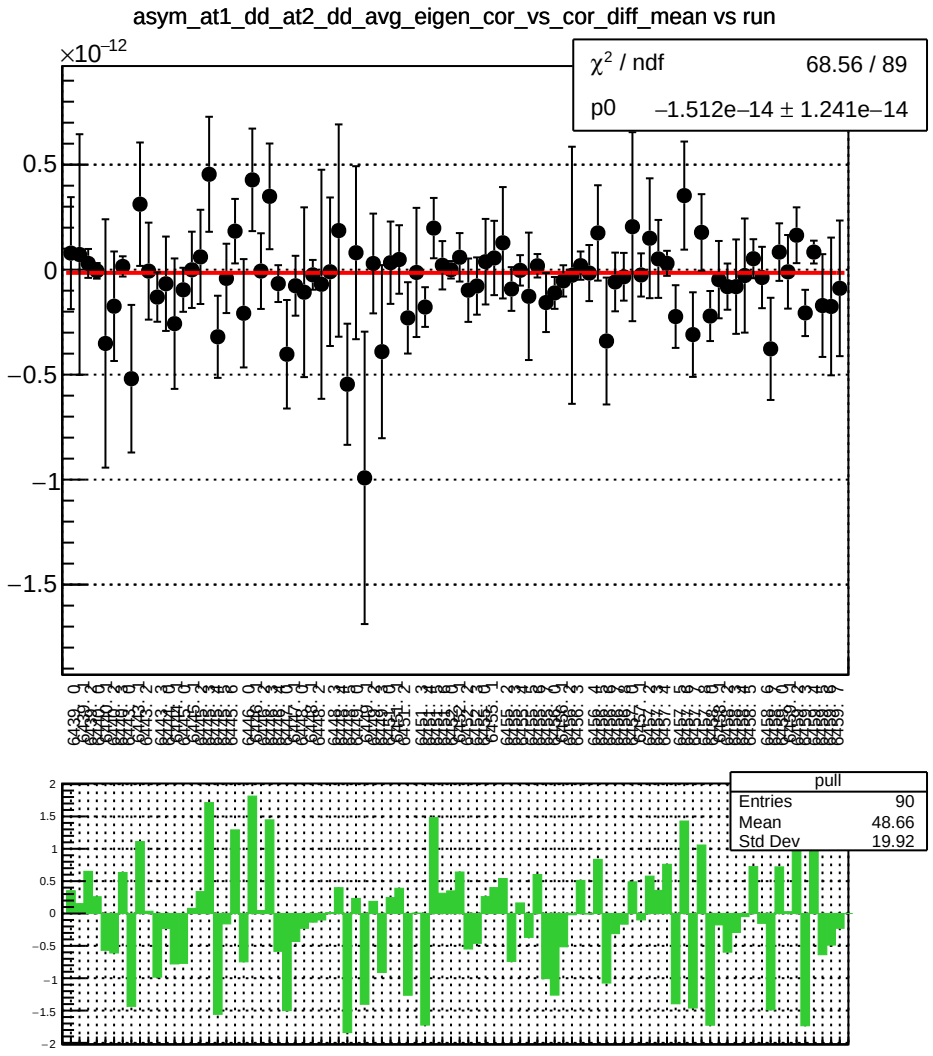

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.764e+04 / 89
p0 0.01208 ± 9.092e−06
0.016
0.015
0.014
0.013
0.012
0.011
0.01

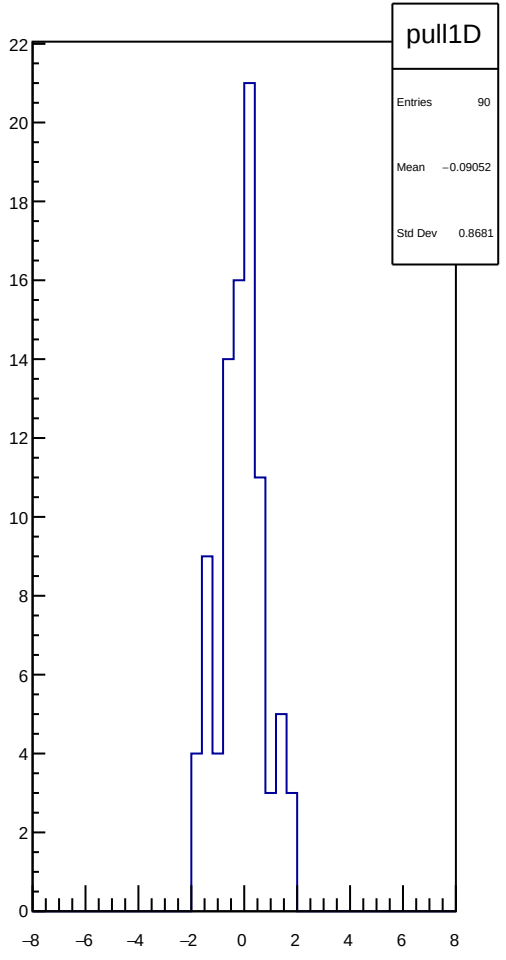

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.41 / 89
p0 0.0613 ± 0.02873
pull
Entries 90
Mean 53.04
Std Dev 39.94
pull1D
Entries 90
Mean 0.03251
Std Dev 0.9446

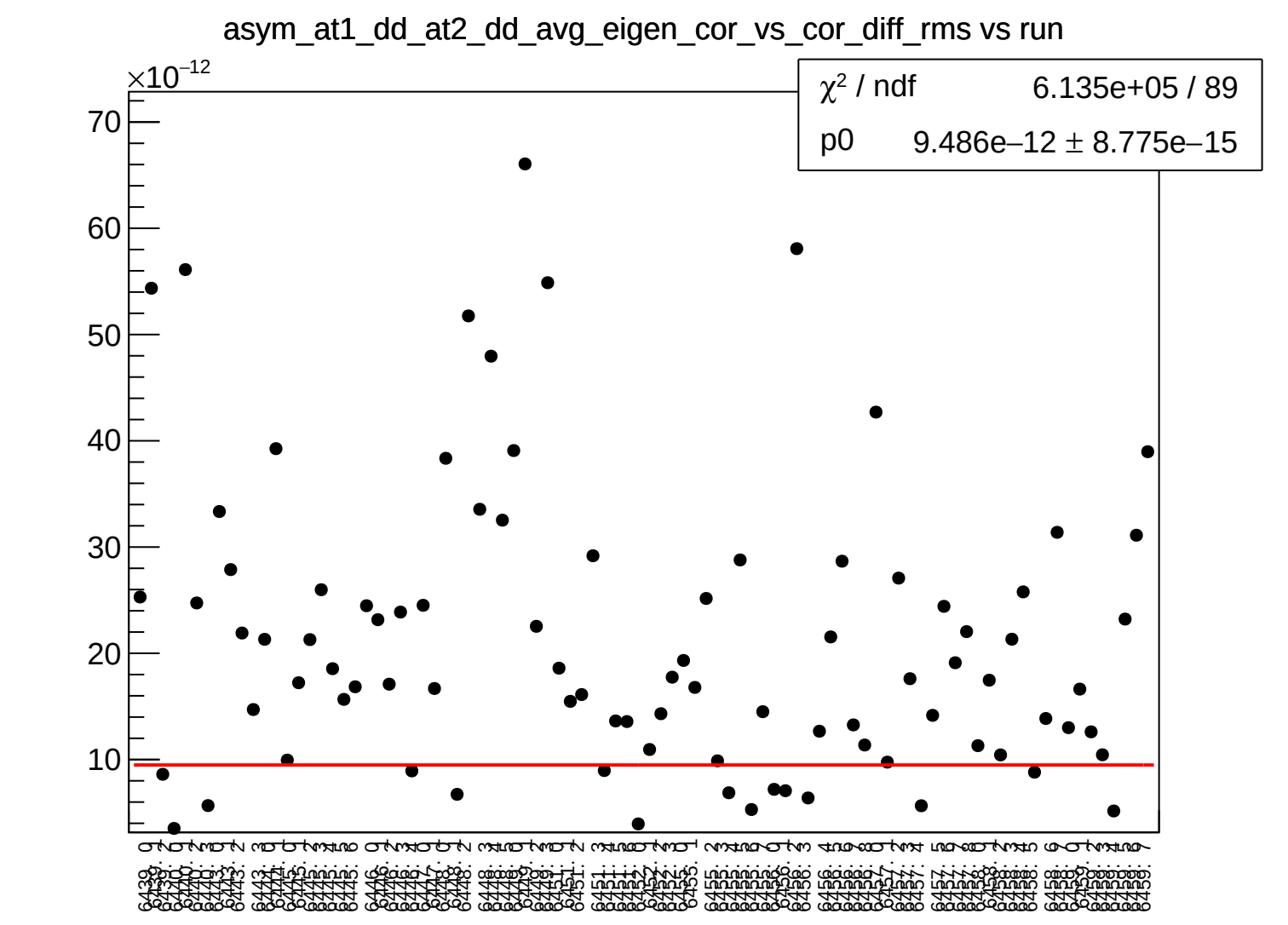

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.199e+05 / 89
p0 25.39 ± 0.02032
60
50
40
30
20
10

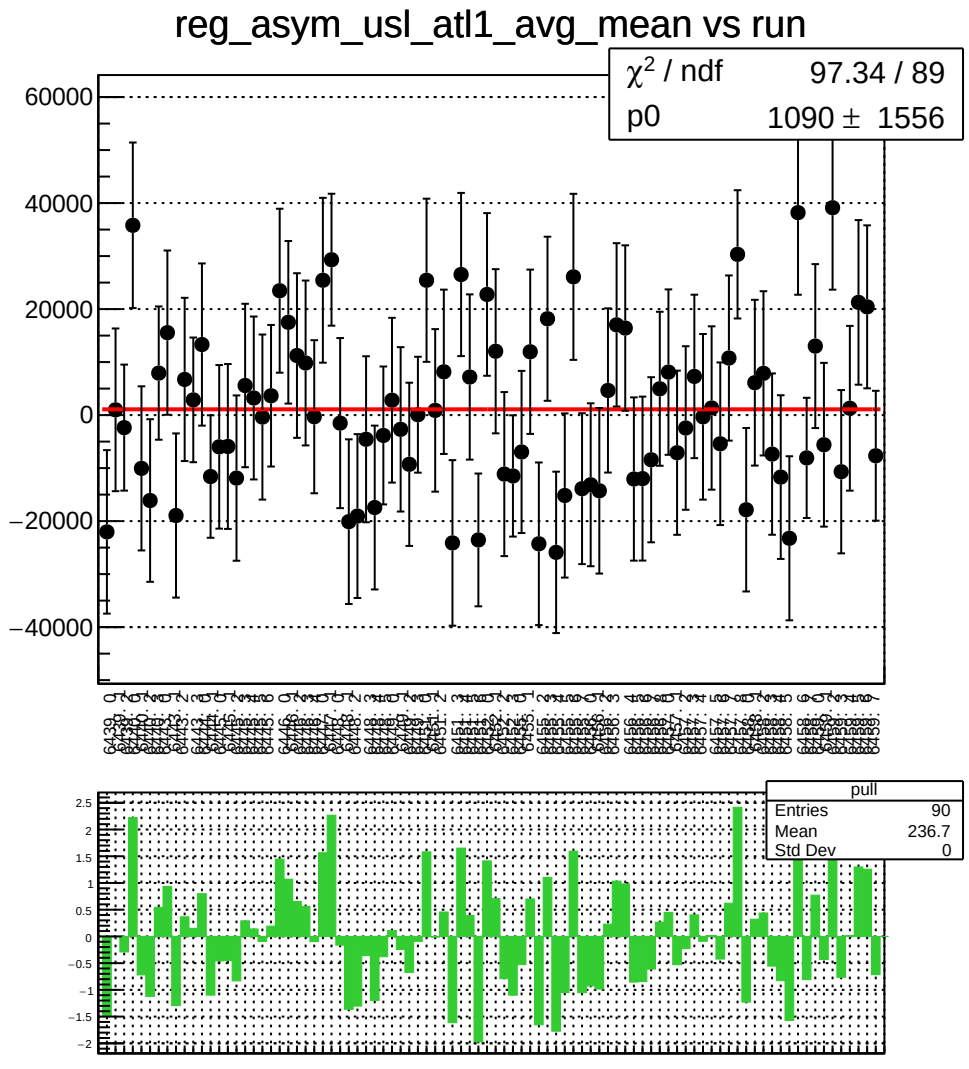

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.41 / 89
p0 0.0613 ± 0.02873
pull
Entries 90
Mean 53.04
Std Dev 39.94
pull1D
Entries 90
Mean 0.03251
Std Dev 0.9446

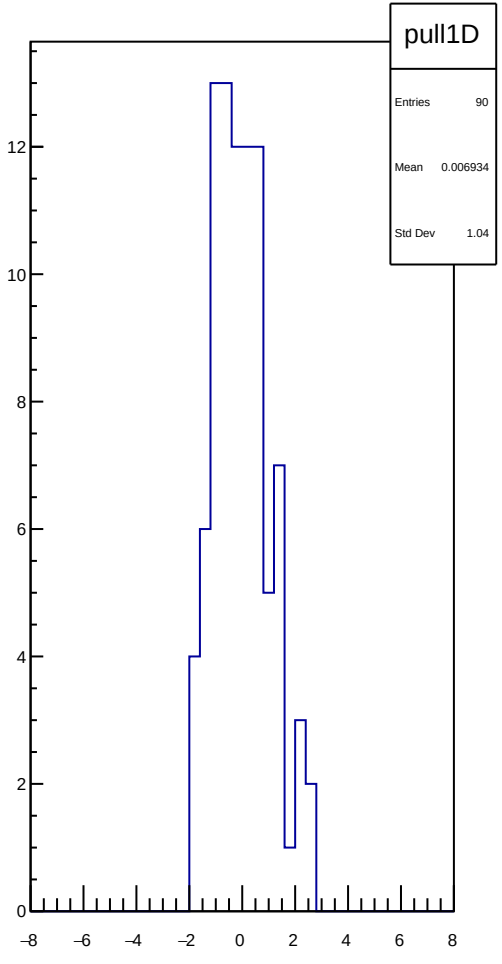

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.199e+05 / 89
p0 25.39 ± 0.02032
60
50
40
30
20
10

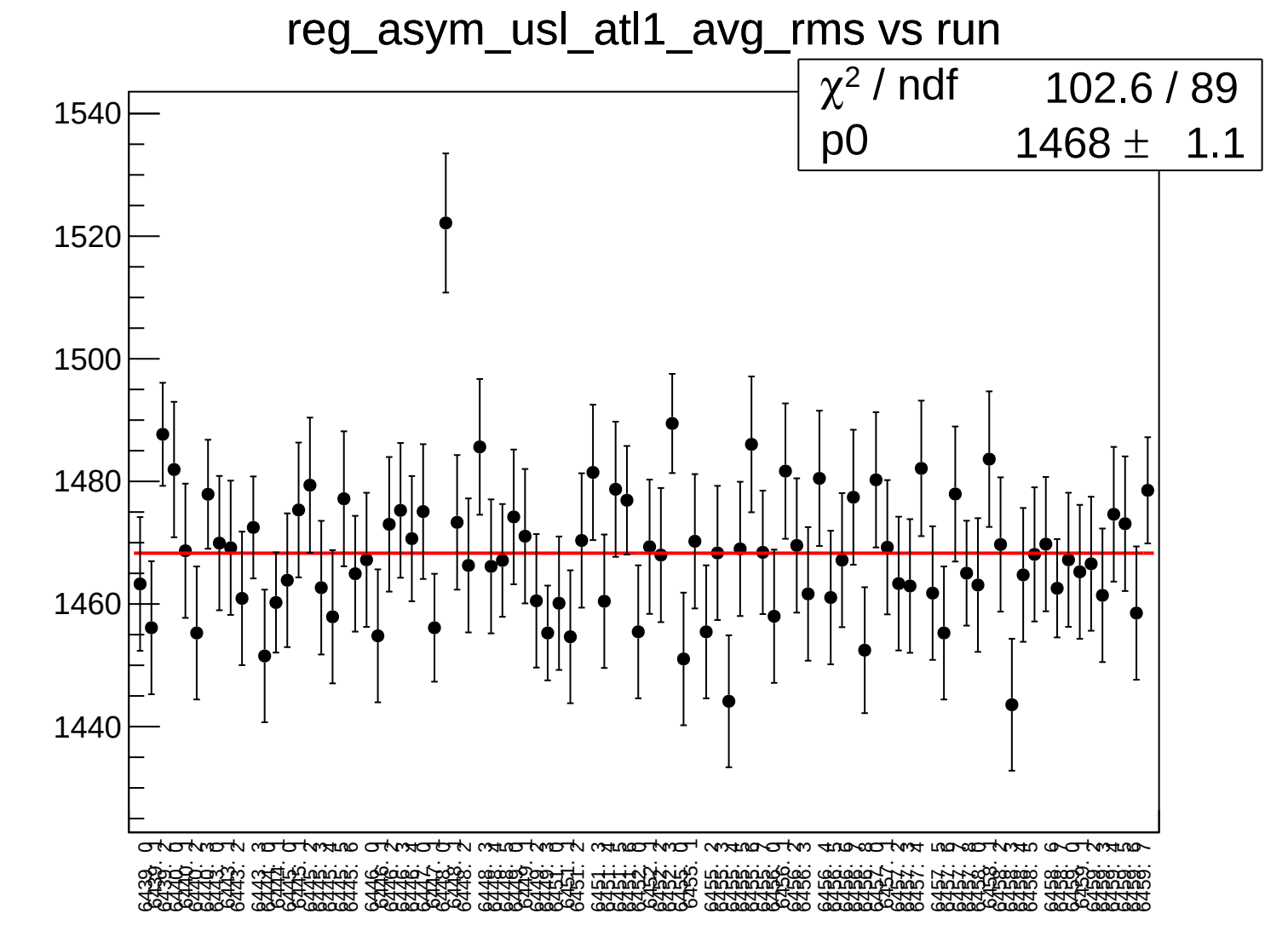

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 68.56 / 89
p0 −1.512e−14 ± 1.241e−14
0.5
0
−0.5
−1
−1.5
pull
Entries 90
Mean 48.66
Std Dev 19.92
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

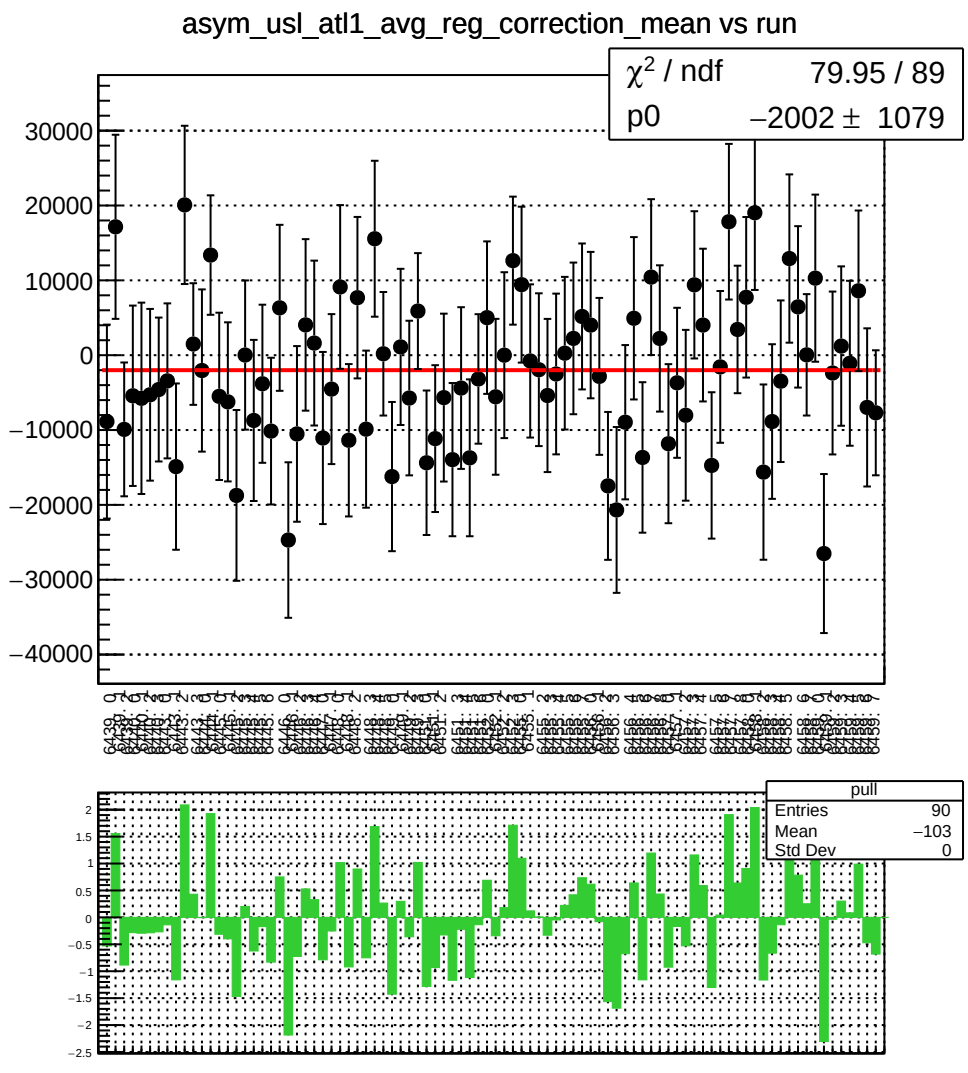

pull1D
Entries 90
Mean −0.09052
Std Dev 0.8681
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

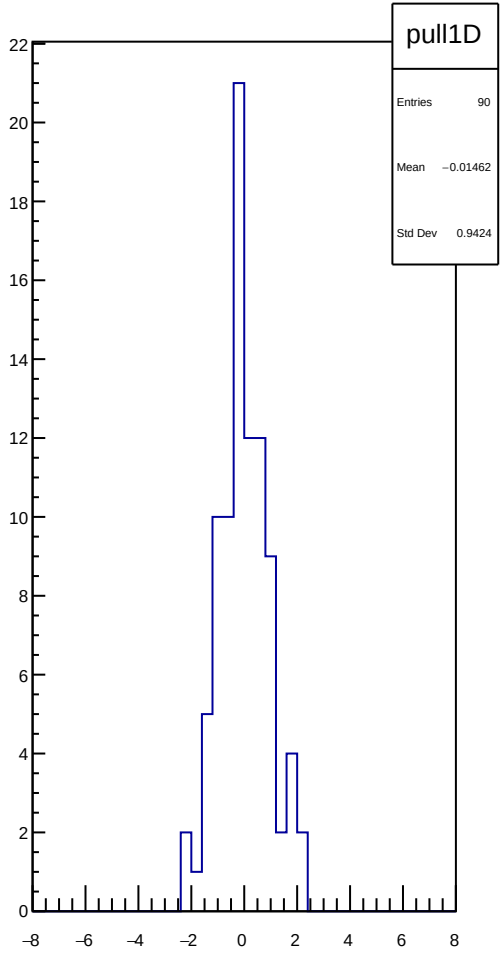

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
70
60
50
40
30
20
10
χ² / ndf 6.135e+05 / 89
p0 9.486e−12 ± 8.775e−15

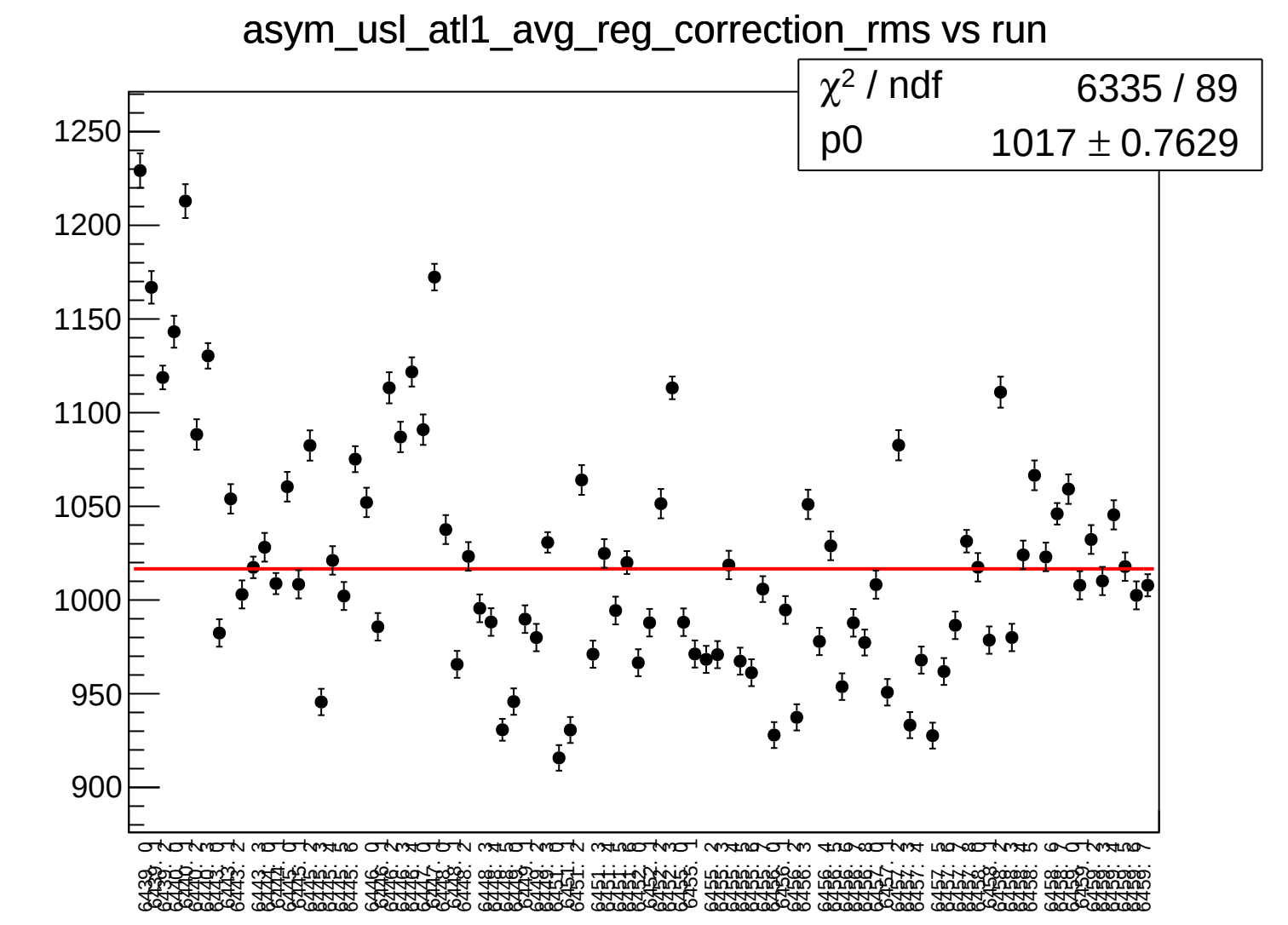

reg_asym_usl_atl1_avg_mean vs run
χ² / ndf 97.34 / 89
p0 1090 ± 1556
pull
Entries 90
Mean 236.7
Std Dev 0

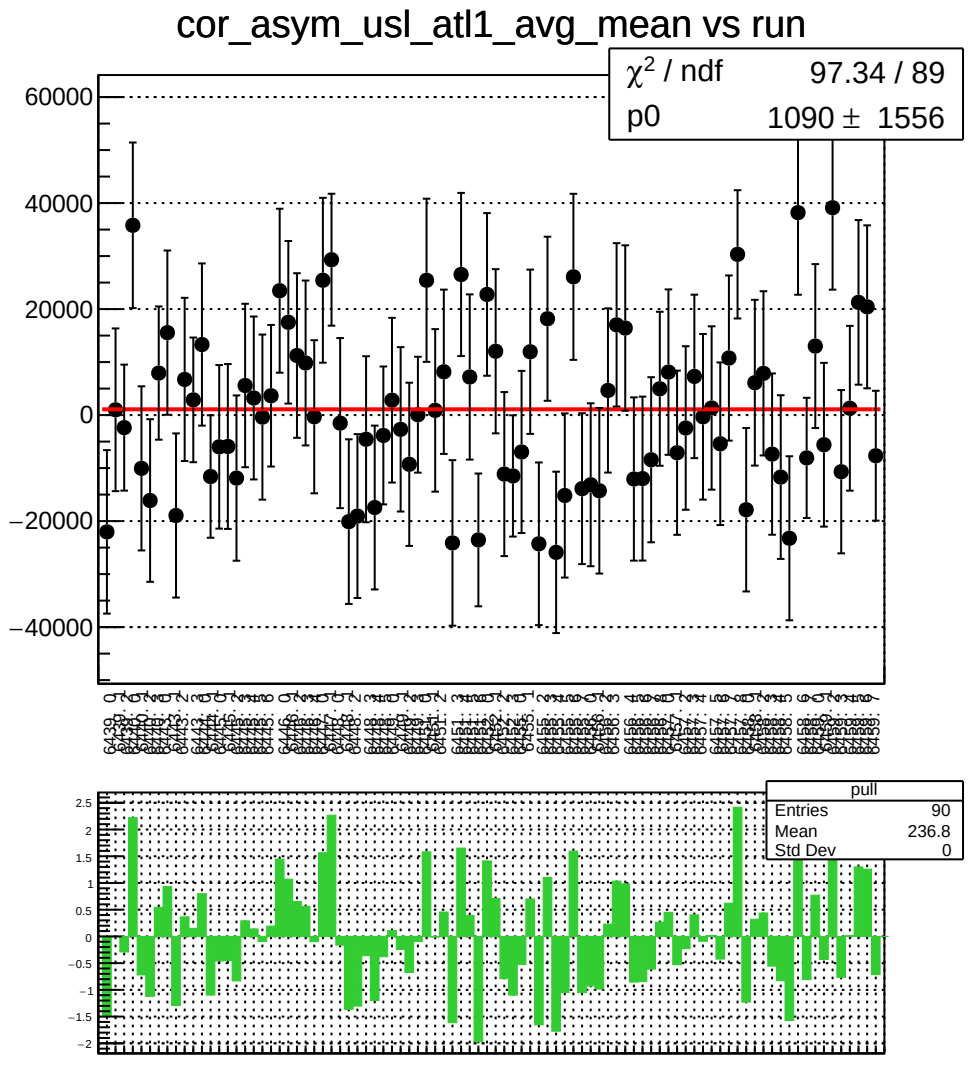

pull1D
Entries 90
Mean 0.006934
Std Dev 1.04

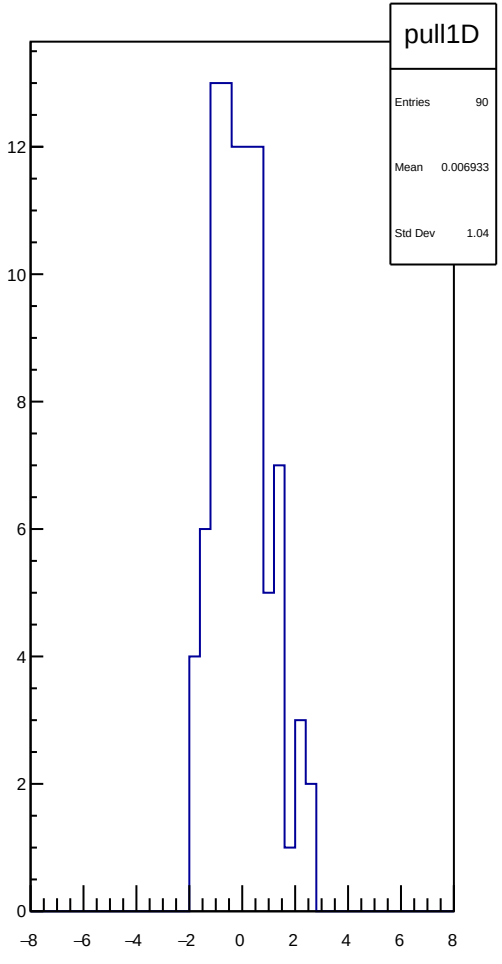

reg_asym_usl_atl1_avg_rms vs run
χ² / ndf 102.6 / 89
p0 1468 ± 1.1
1540
1520
1500
1480
1460
1440

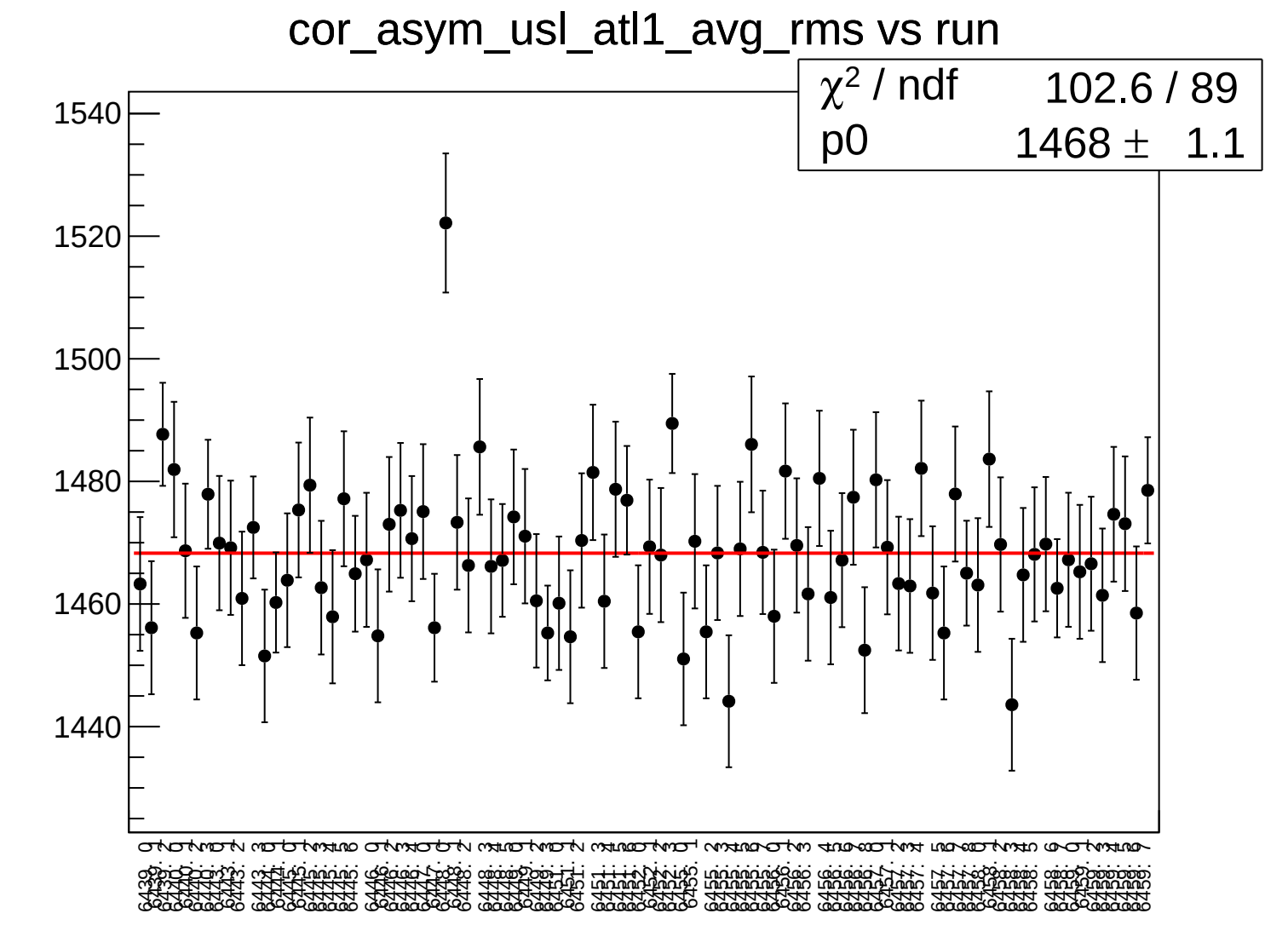

asym_usl_atl1_avg_reg_correction_mean vs run
χ² / ndf 79.95 / 89
p0 −2002 ± 1079
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 90
Mean −103
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

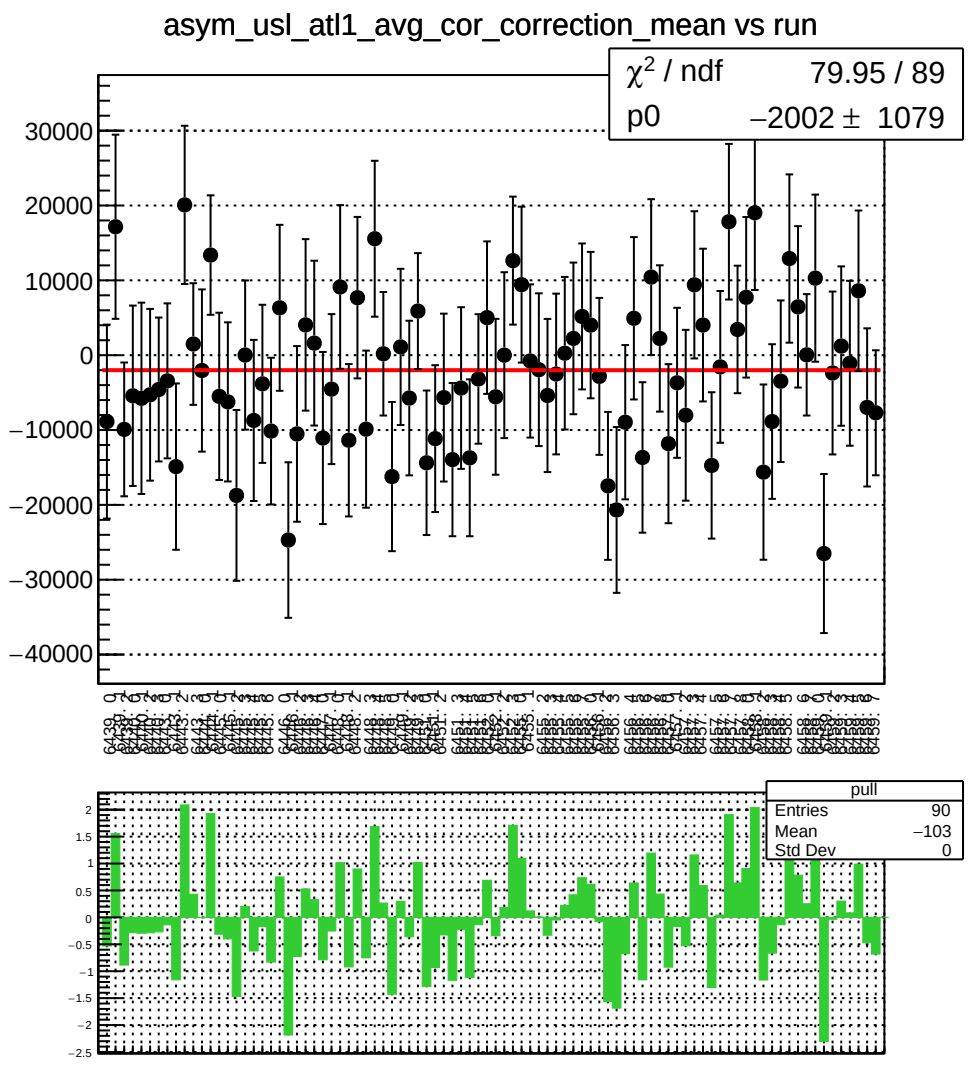

pull1D
Entries 90
Mean −0.01462
Std Dev 0.9424
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

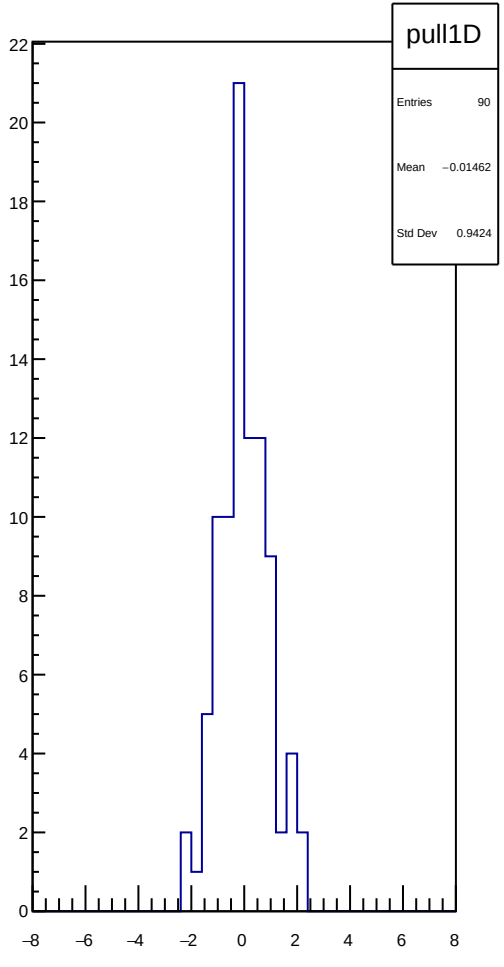

asym_usl_atl1_avg_reg_correction_rms vs run
χ² / ndf 6335 / 89
p0 1017 ± 0.7629
1250
1200
1150
1100
1050
1000
950
900

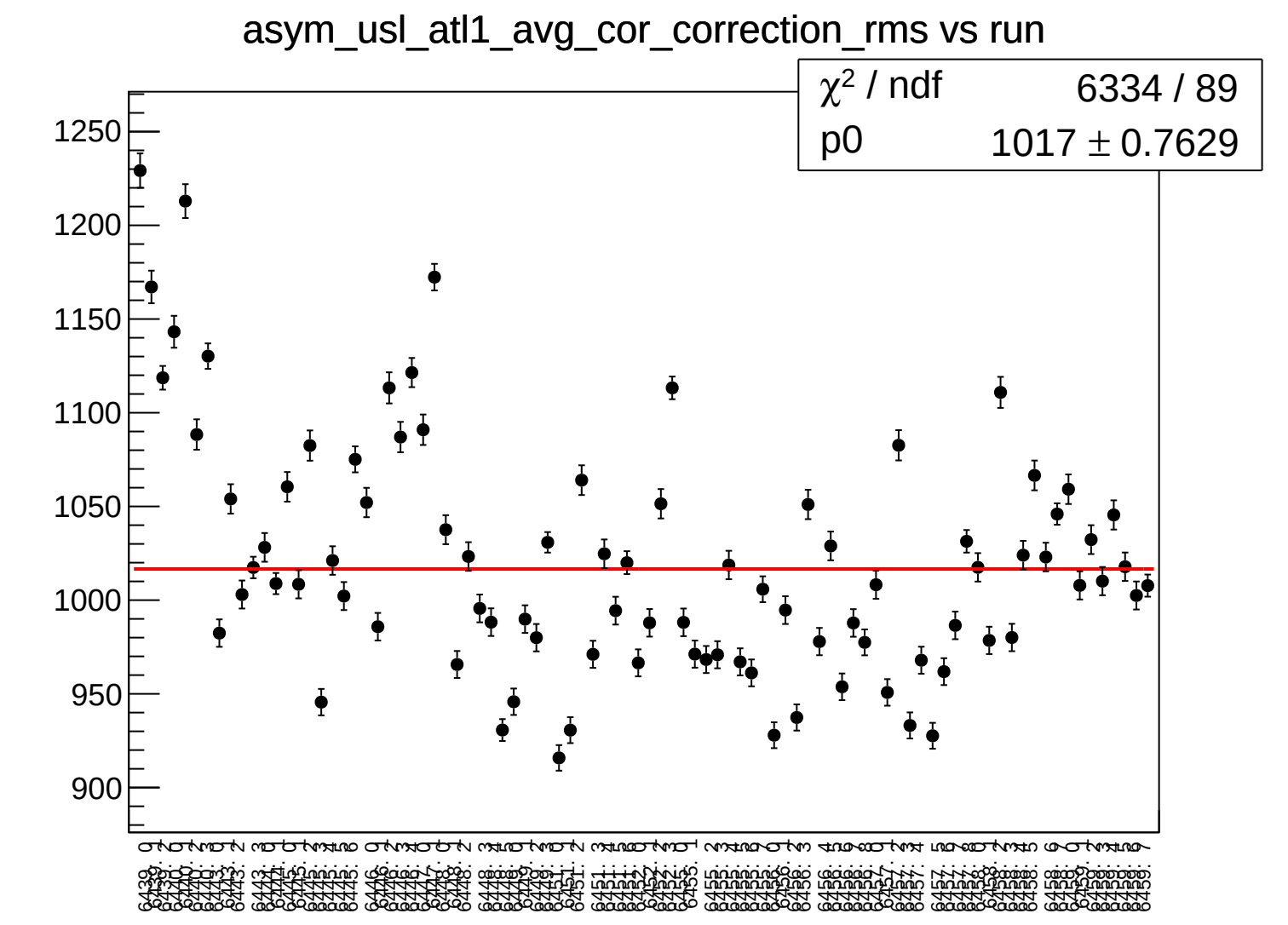

cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 97.34 / 89
p0 1090 ± 1556
pull
Entries 90
Mean 236.8
Std Dev 0

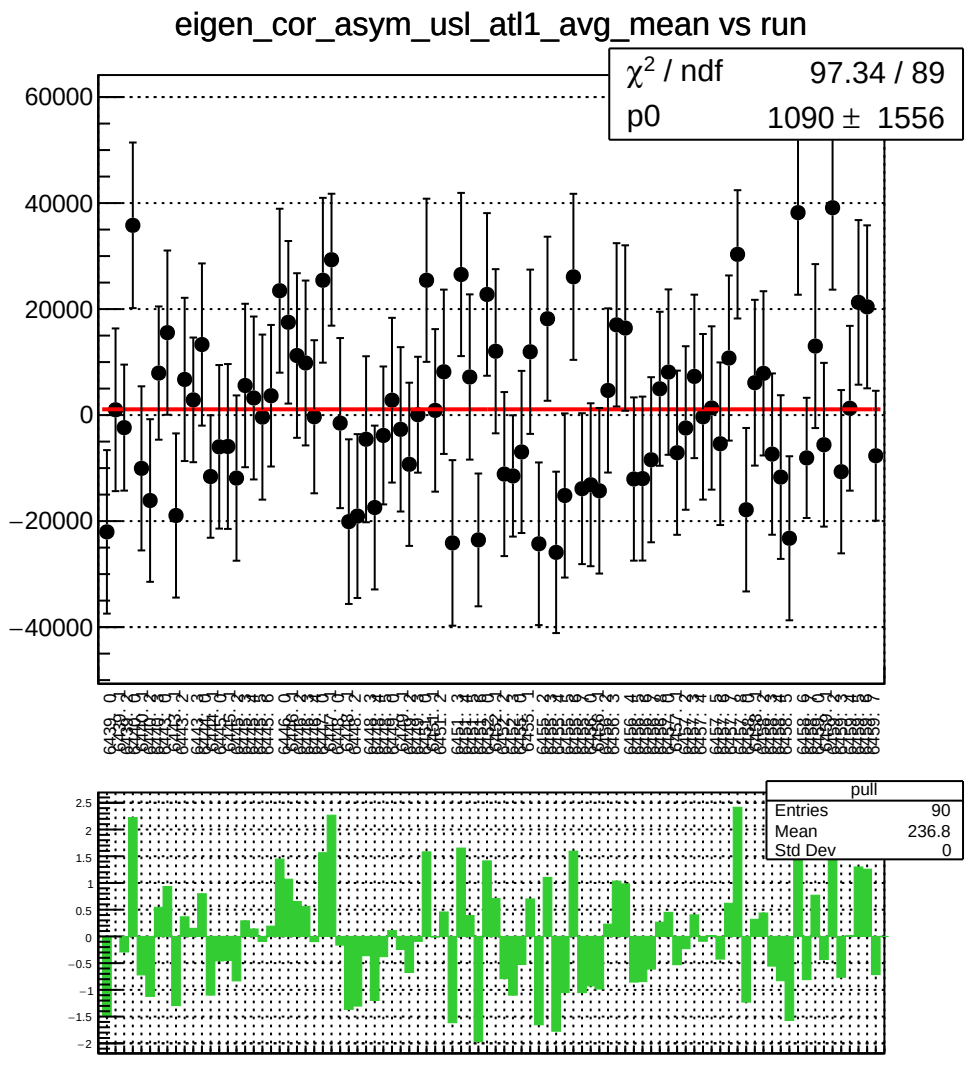

pull1D
Entries 90
Mean 0.006933
Std Dev 1.04

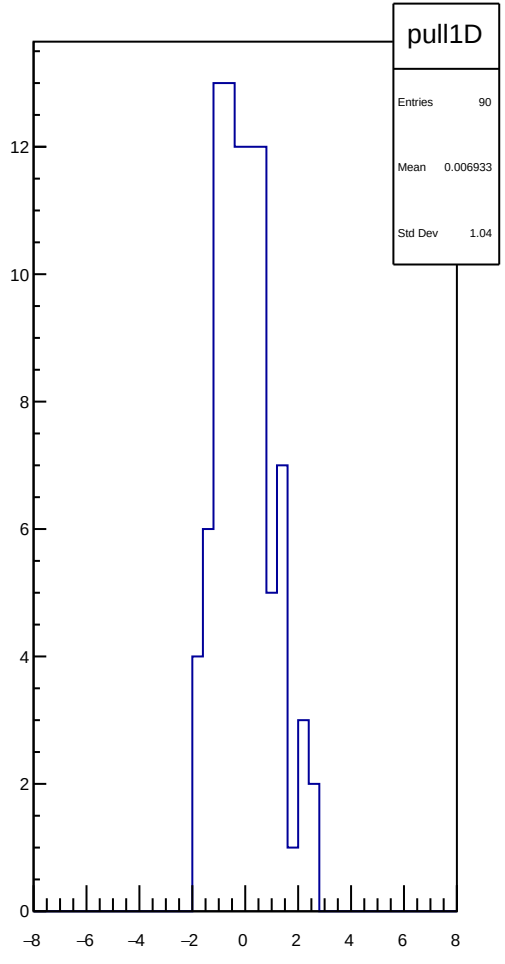

cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 102.6 / 89
p0 1468 ± 1.1
1540
1520
1500
1480
1460
1440

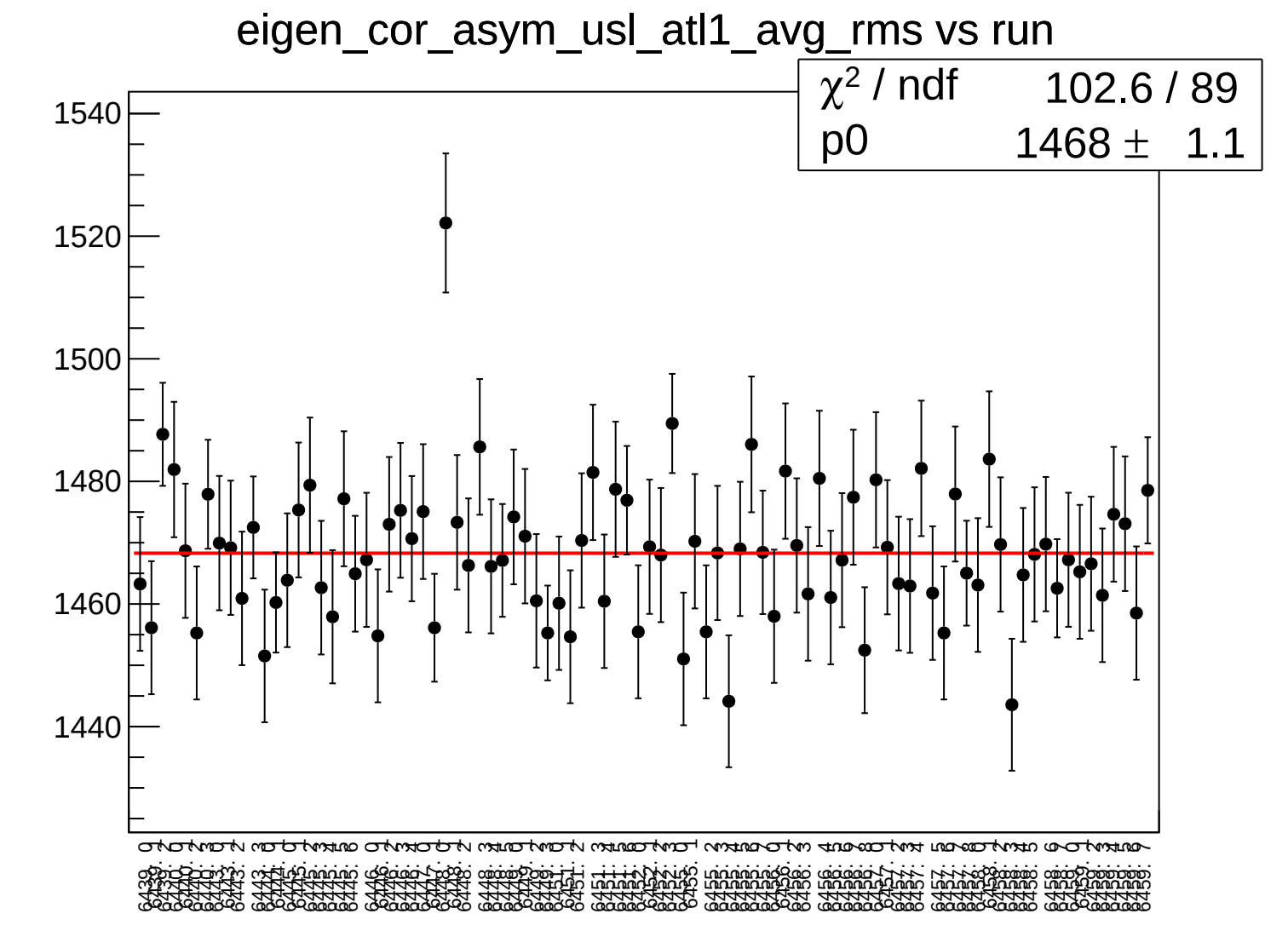

asym_usl_atl1_avg_cor_correction_mean vs run
χ² / ndf 79.95 / 89
p0 −2002 ± 1079
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 90
Mean −103
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

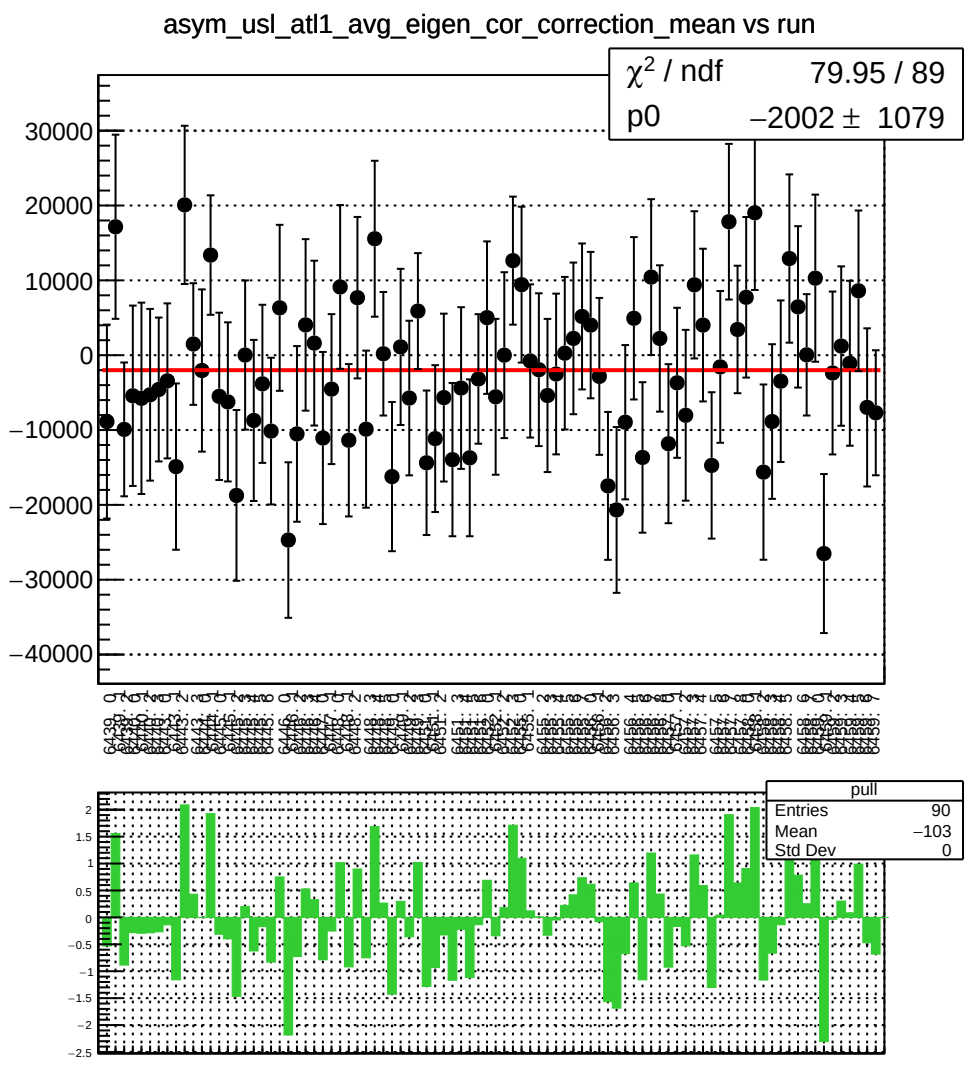

pull1D
Entries 90
Mean −0.01462
Std Dev 0.9424
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

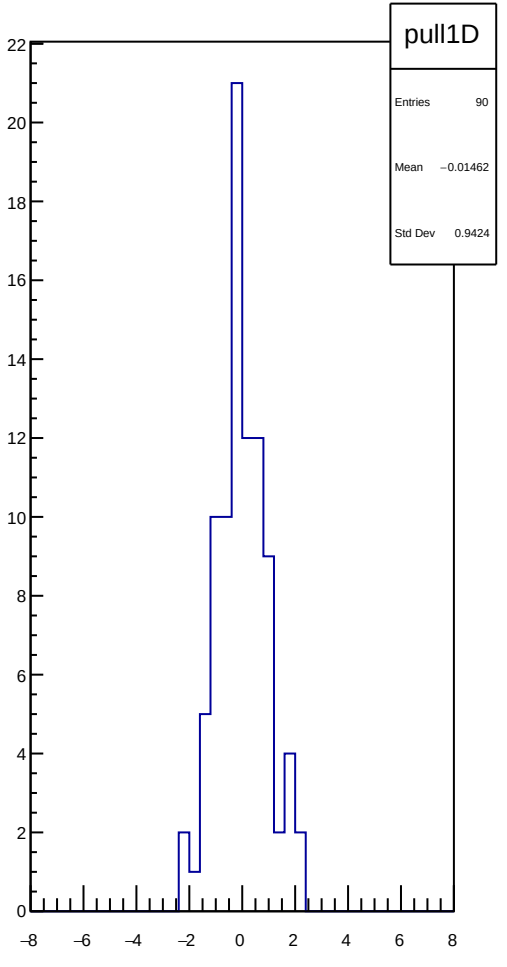

asym_usl_atl1_avg_cor_correction_rms vs run
χ² / ndf 6334 / 89
p0 1017 ± 0.7629
1250
1200
1150
1100
1050
1000
950
900

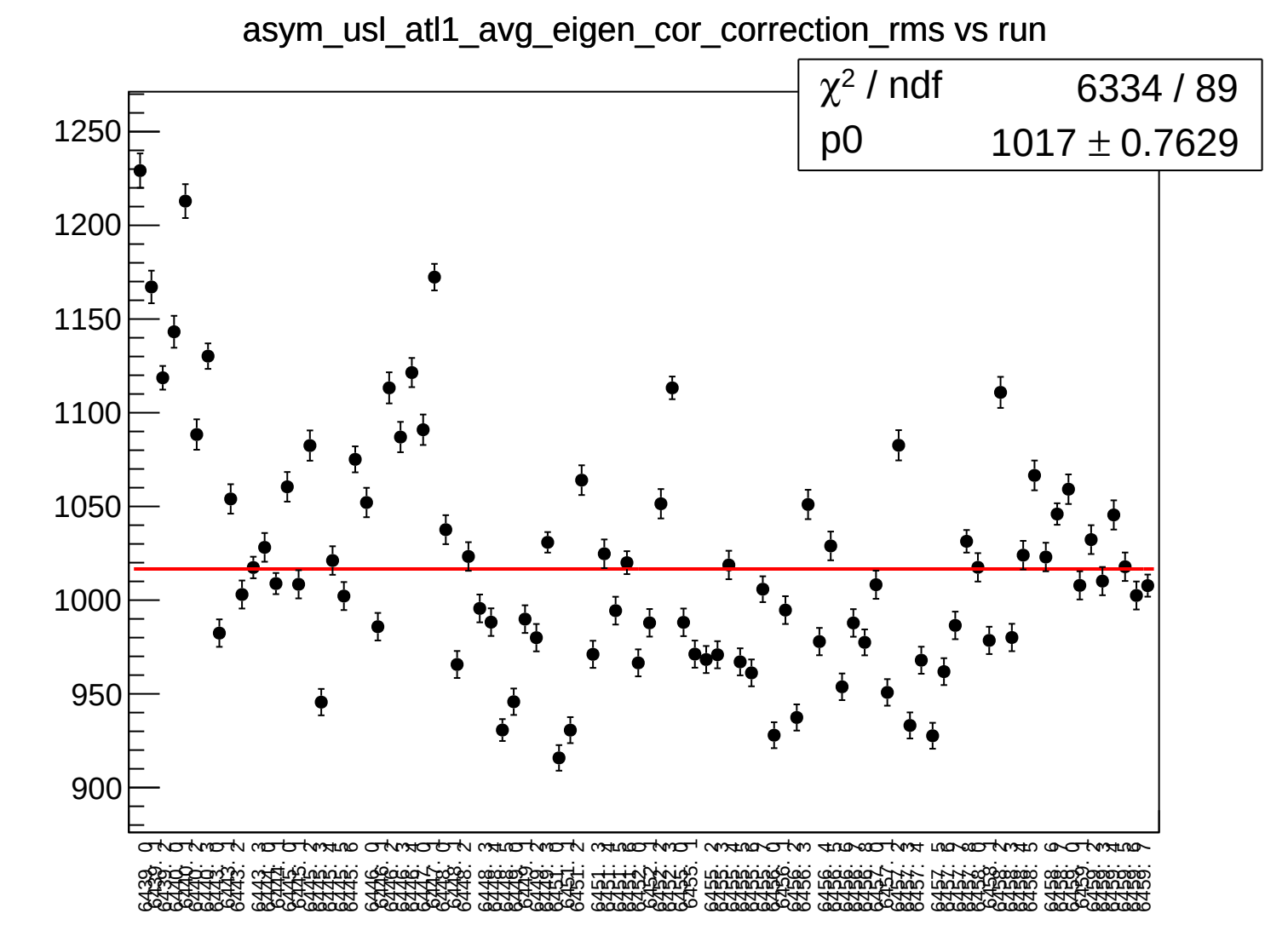

eigen_cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 97.34 / 89
p0 1090 ± 1556
60000
40000
20000
0
−20000
−40000
pull
Entries 90
Mean 236.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

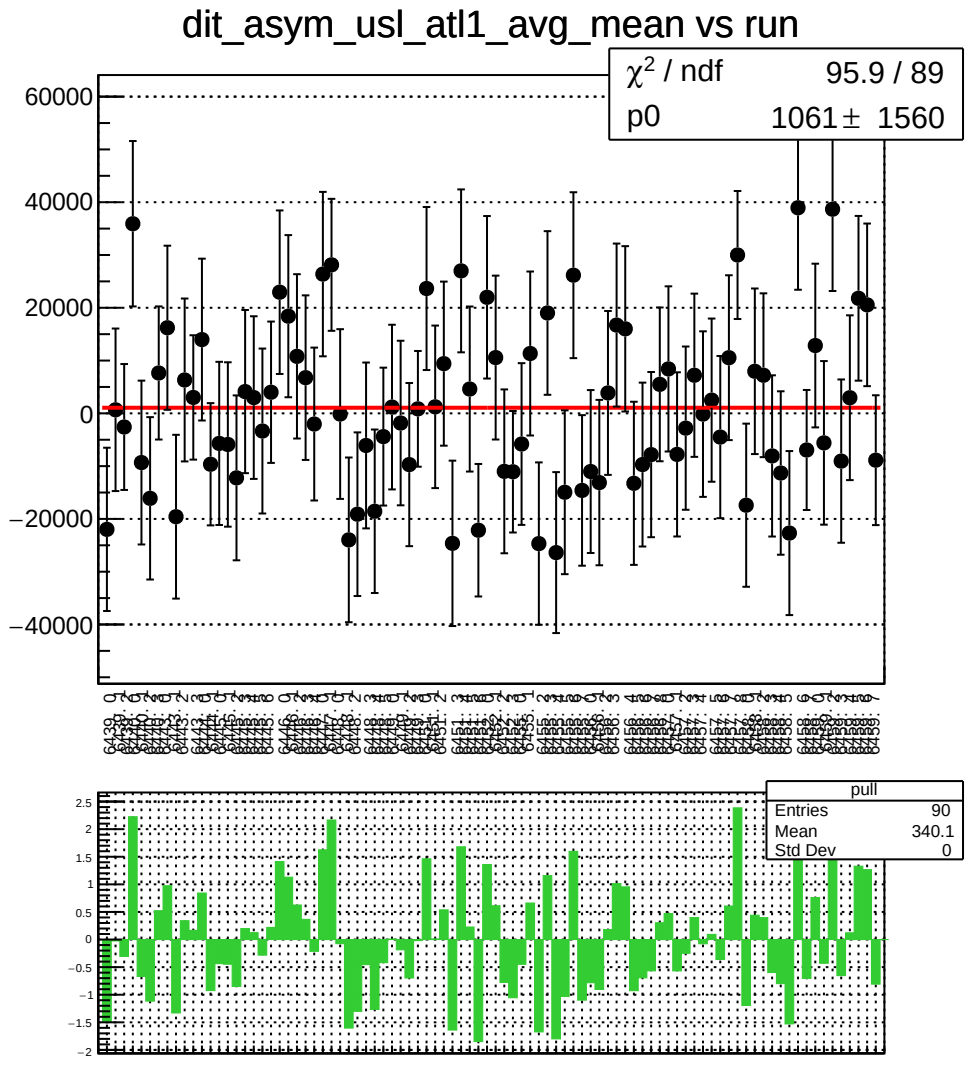

pull1D
Entries 90
Mean 0.006933
Std Dev 1.04
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

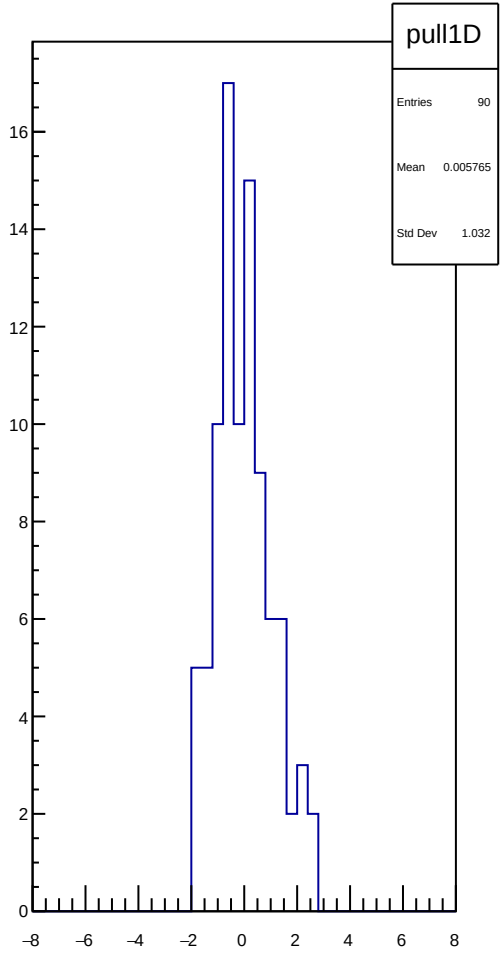

eigen_cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 102.6 / 89
p0 1468 ± 1.1
1540
1520
1500
1480
1460
1440

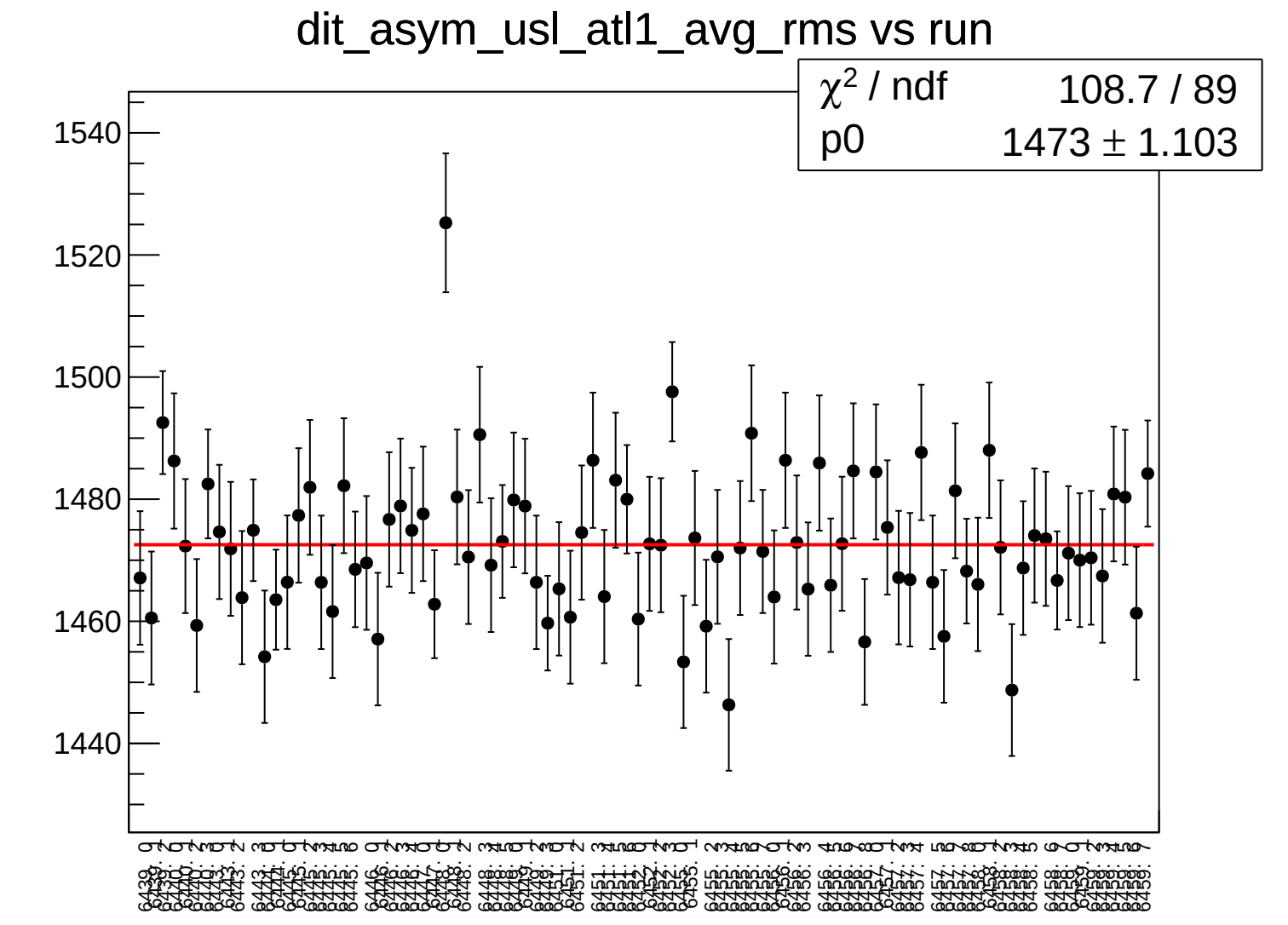

asym_usl_atl1_avg_eigen_cor_correction_mean vs run
χ² / ndf 79.95 / 89
p0 −2002 ± 1079
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 90
Mean −103
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

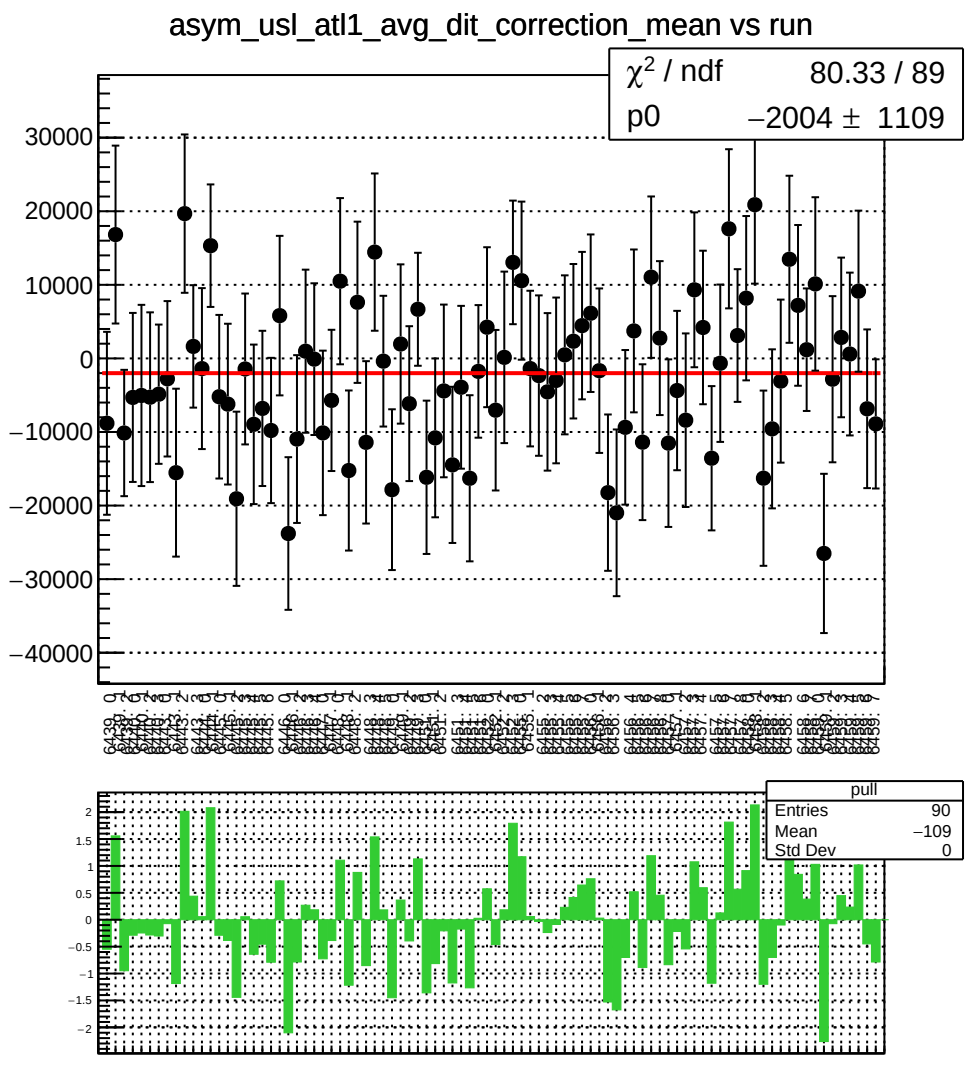

pull1D
Entries 90
Mean −0.01462
Std Dev 0.9424
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

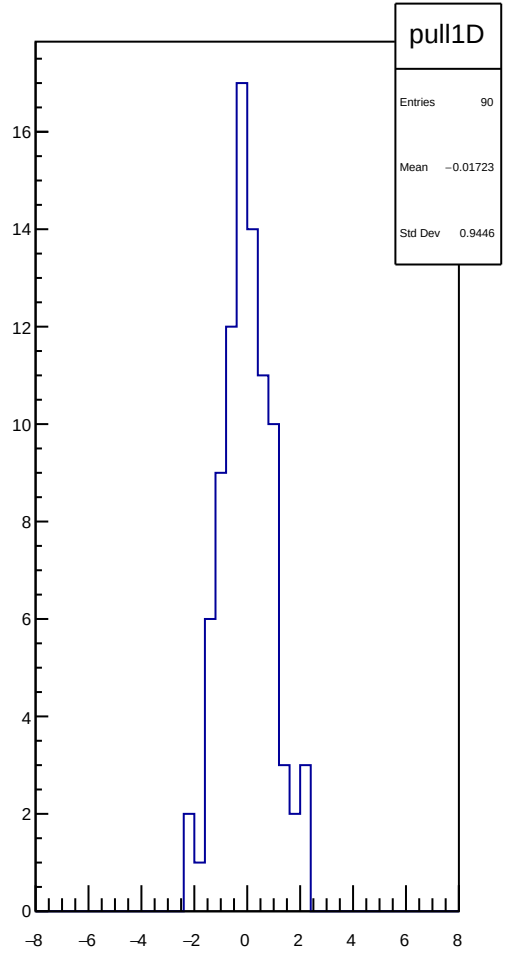

asym_usl_atl1_avg_eigen_cor_correction_rms vs run
χ² / ndf 6334 / 89
p0 1017 ± 0.7629
1250
1200
1150
1100
1050
1000
950
900

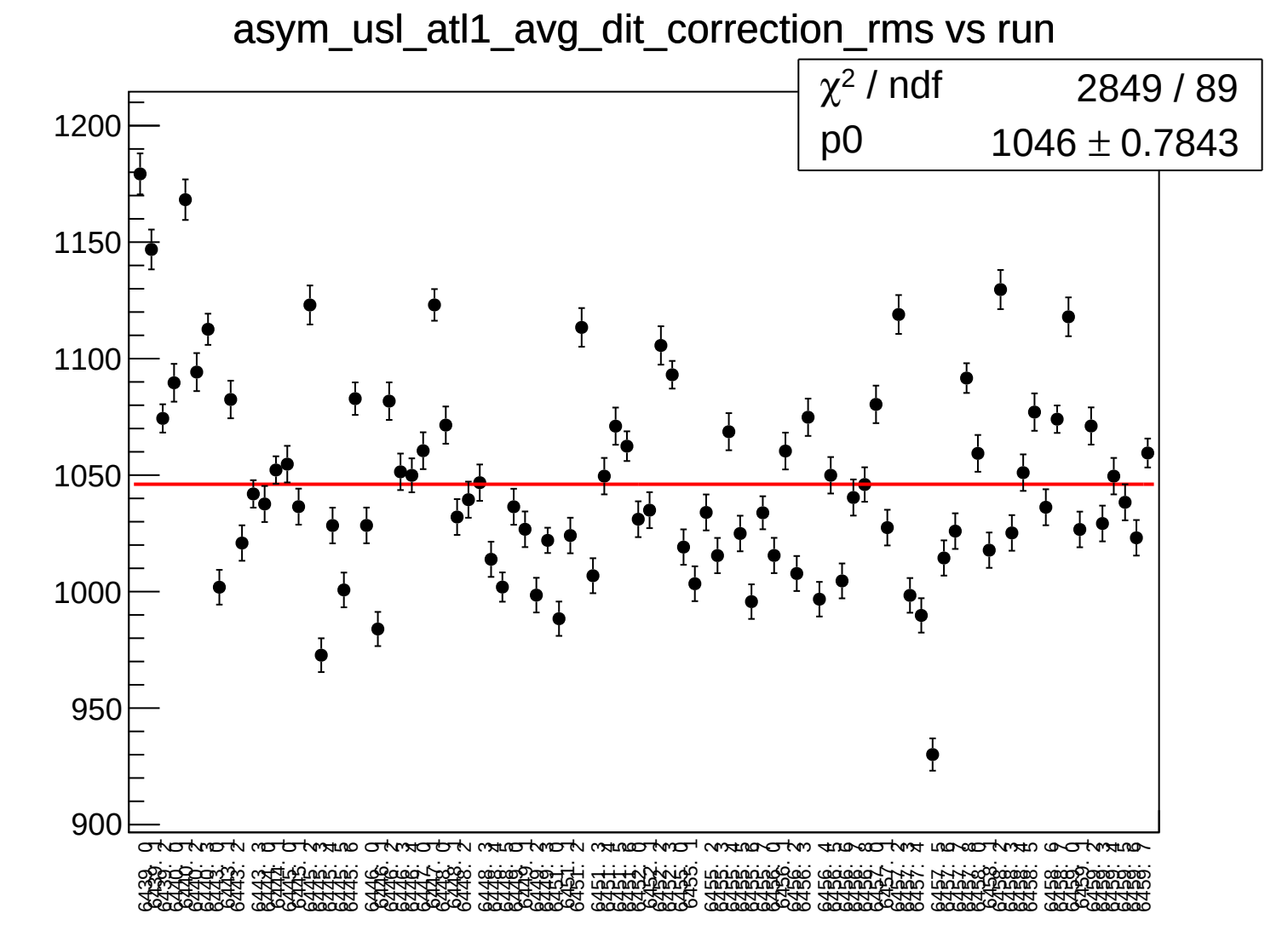

dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 95.9 / 89
p0 1061 ± 1560
60000
40000
20000
0
−20000
−40000
pull
Entries 90
Mean 340.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

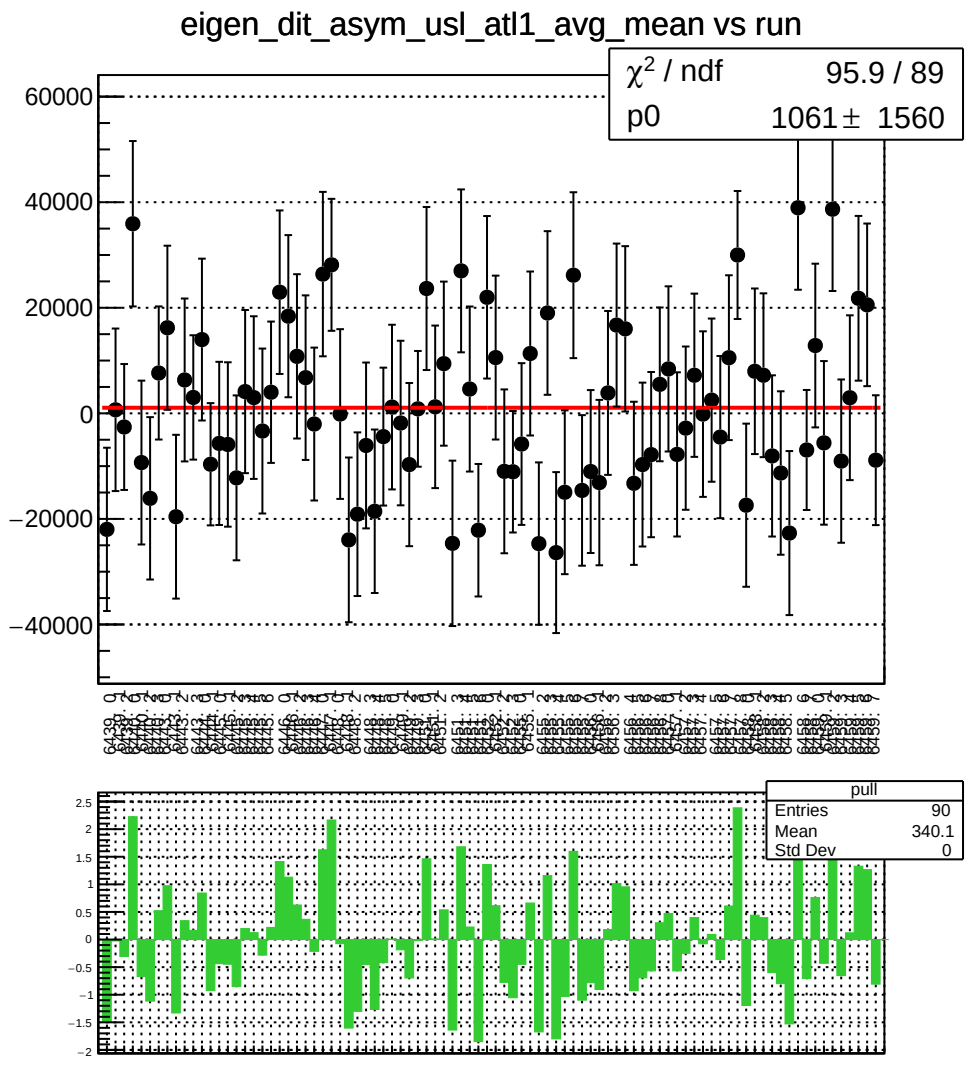

pull1D
Entries 90
Mean 0.005765
Std Dev 1.032
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

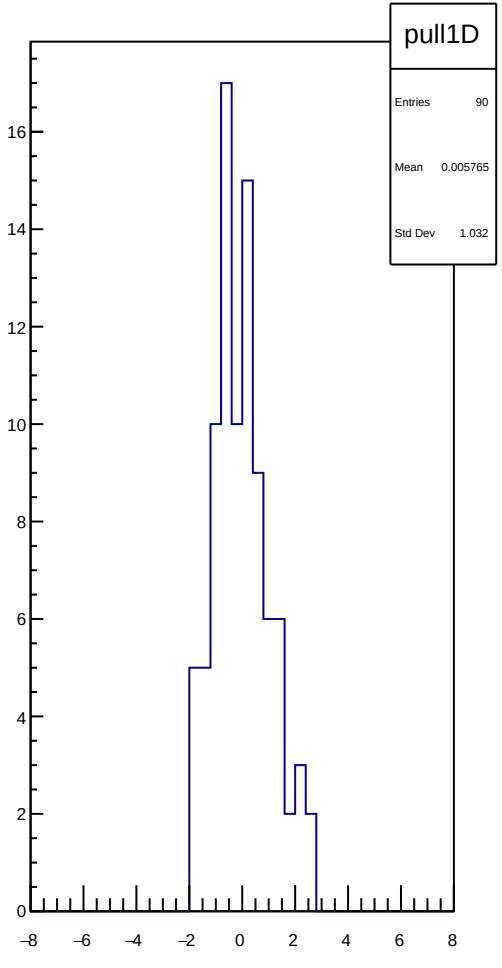

dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 108.7 / 89
p0 1473 ± 1.103
1540
1520
1500
1480
1460
1440

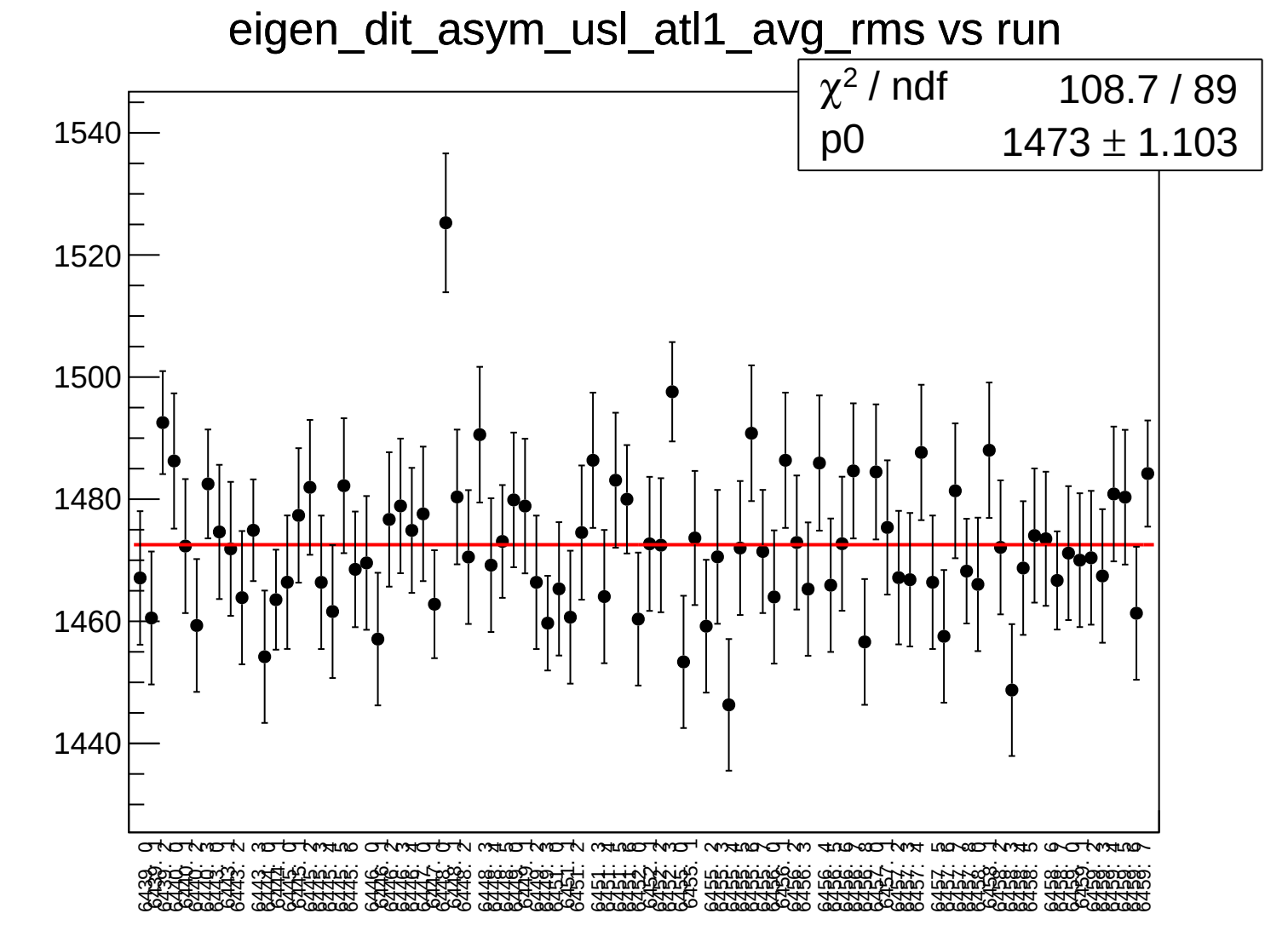

asym_usl_atl1_avg_dit_correction_mean vs run
χ² / ndf 80.33 / 89
p0 −2004 ± 1109
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 90
Mean −109
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

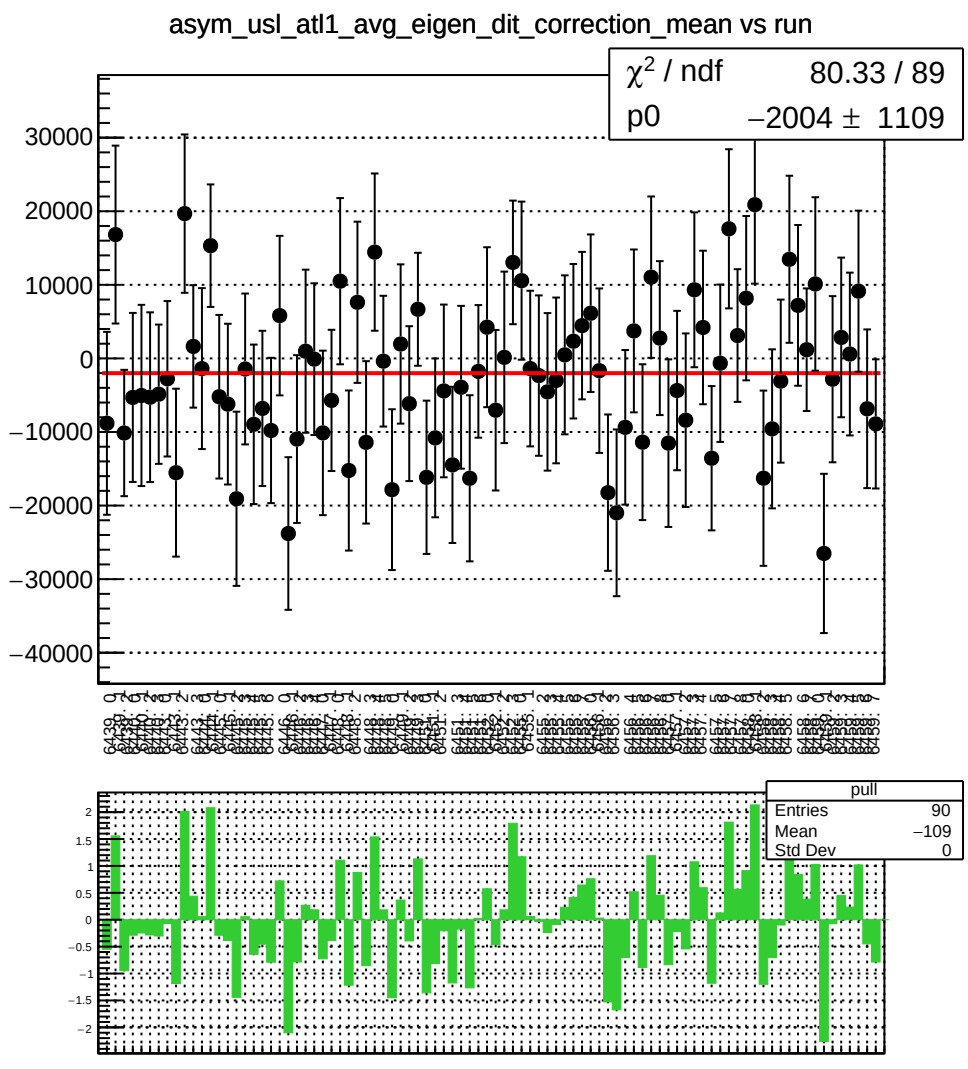

pull1D
Entries 90
Mean −0.01723
Std Dev 0.9446
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

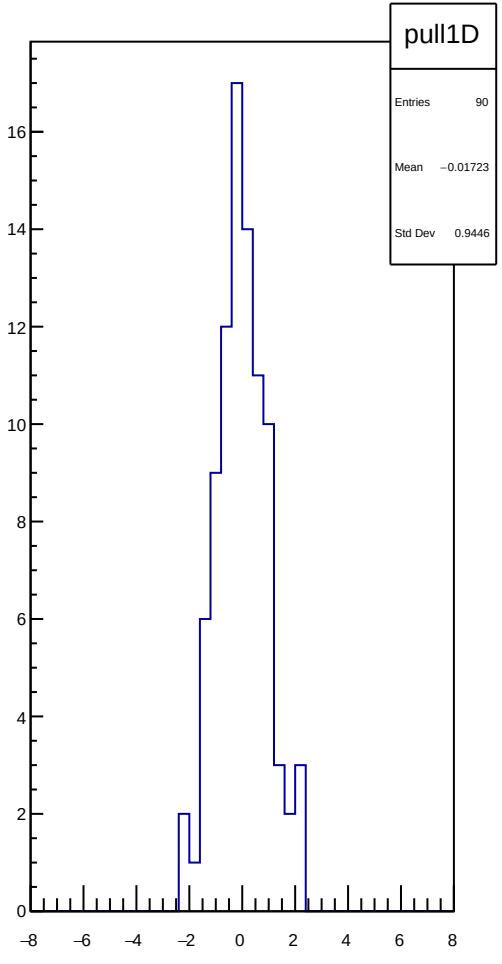

asym_usl_atl1_avg_dit_correction_rms vs run
χ² / ndf 2849 / 89
p0 1046 ± 0.7843
1200
1150
1100
1050
1000
950
900

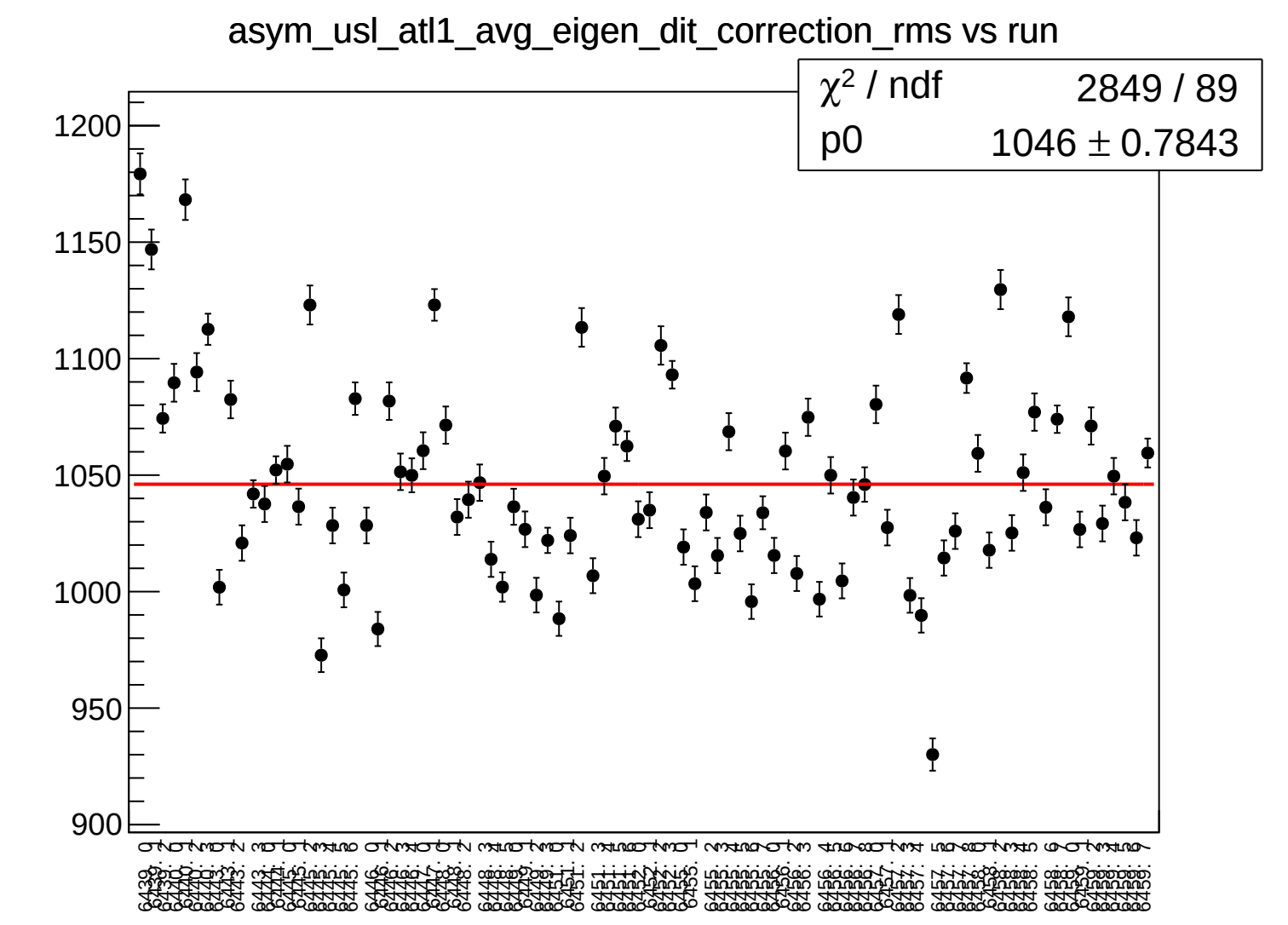

eigen_dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 95.9 / 89
p0 1061 ± 1560
pull
Entries 90
Mean 340.1
Std Dev 0

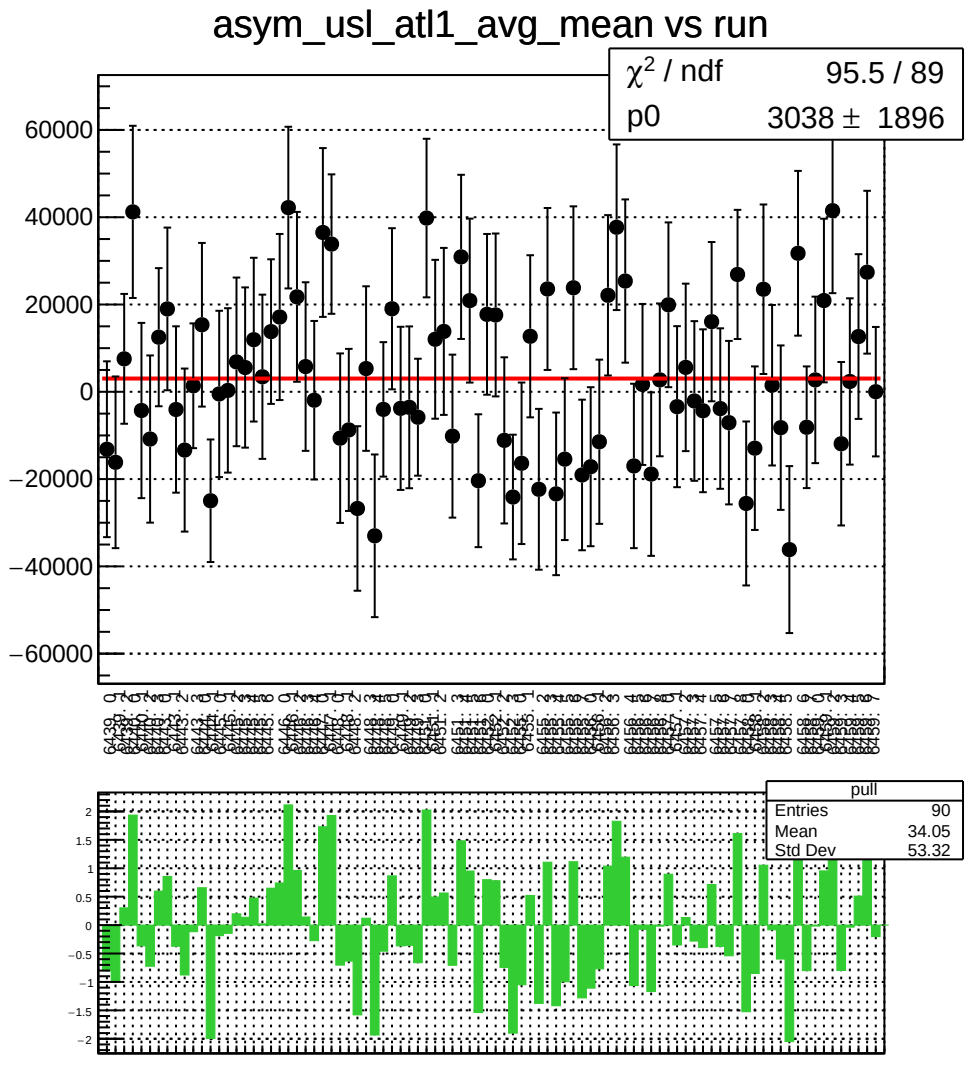

pull1D
Entries 90
Mean 0.005765
Std Dev 1.032

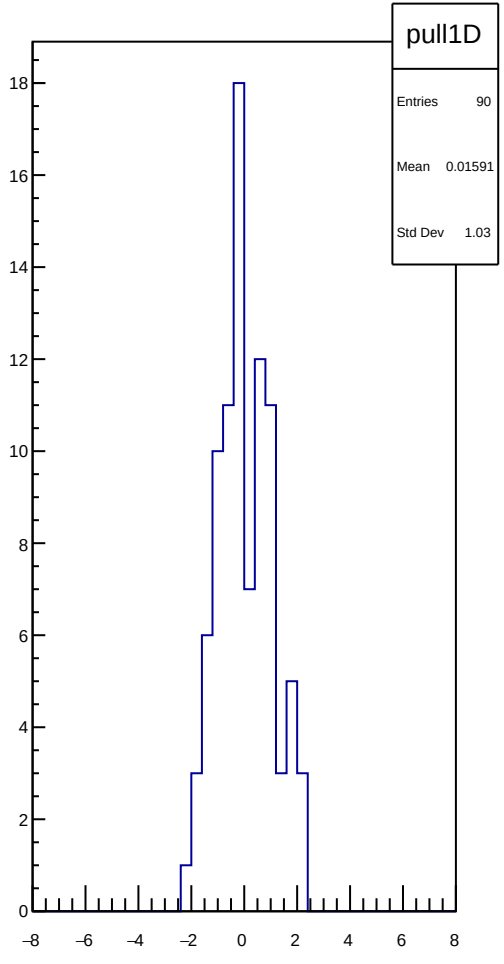

eigen_dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 108.7 / 89
p0 1473 ± 1.103
1540
1520
1500
1480
1460
1440

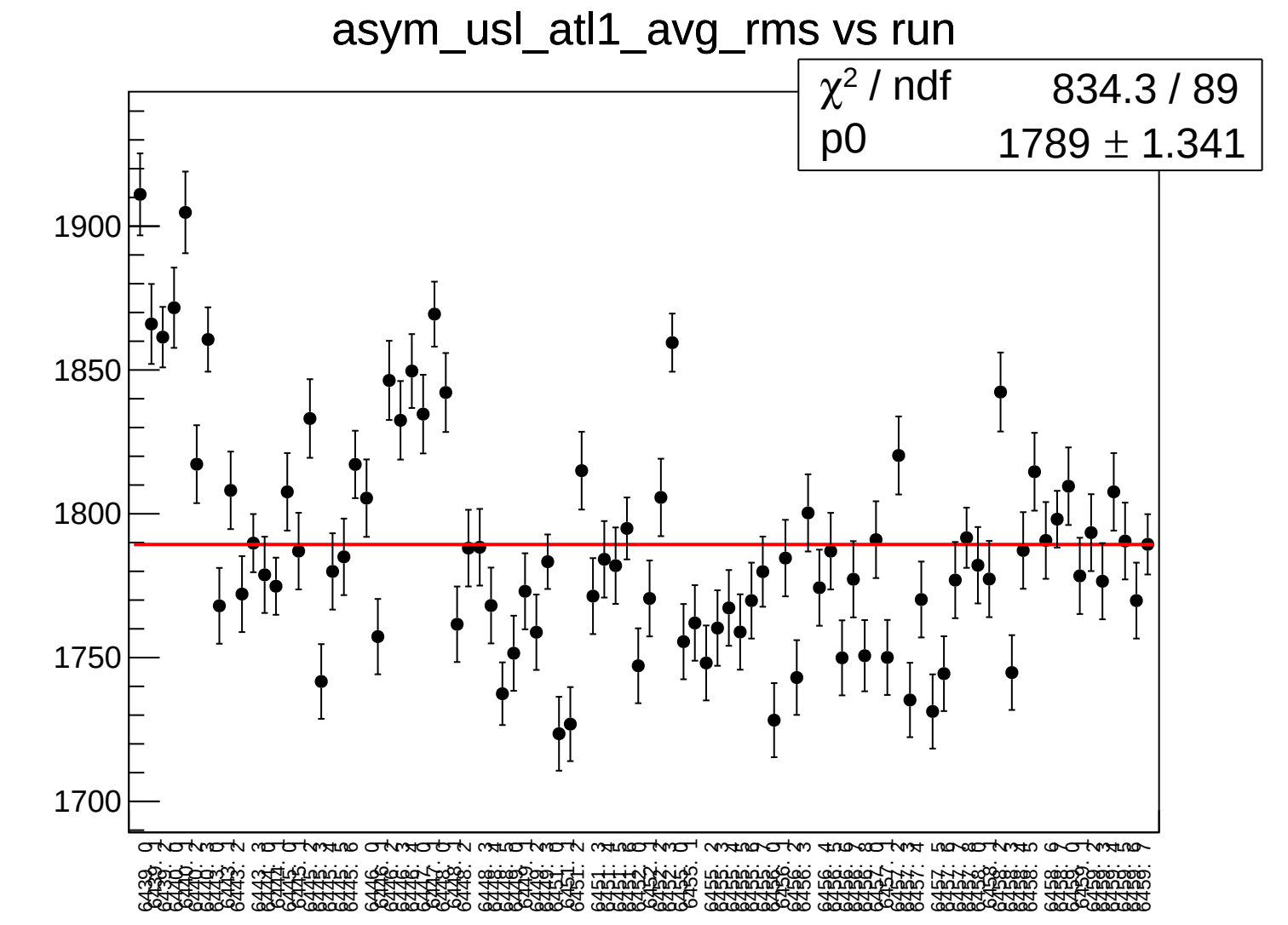

asym_usl_atl1_avg_eigen_dit_correction_mean vs run
χ² / ndf 80.33 / 89
p0 −2004 ± 1109
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 90
Mean −109
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

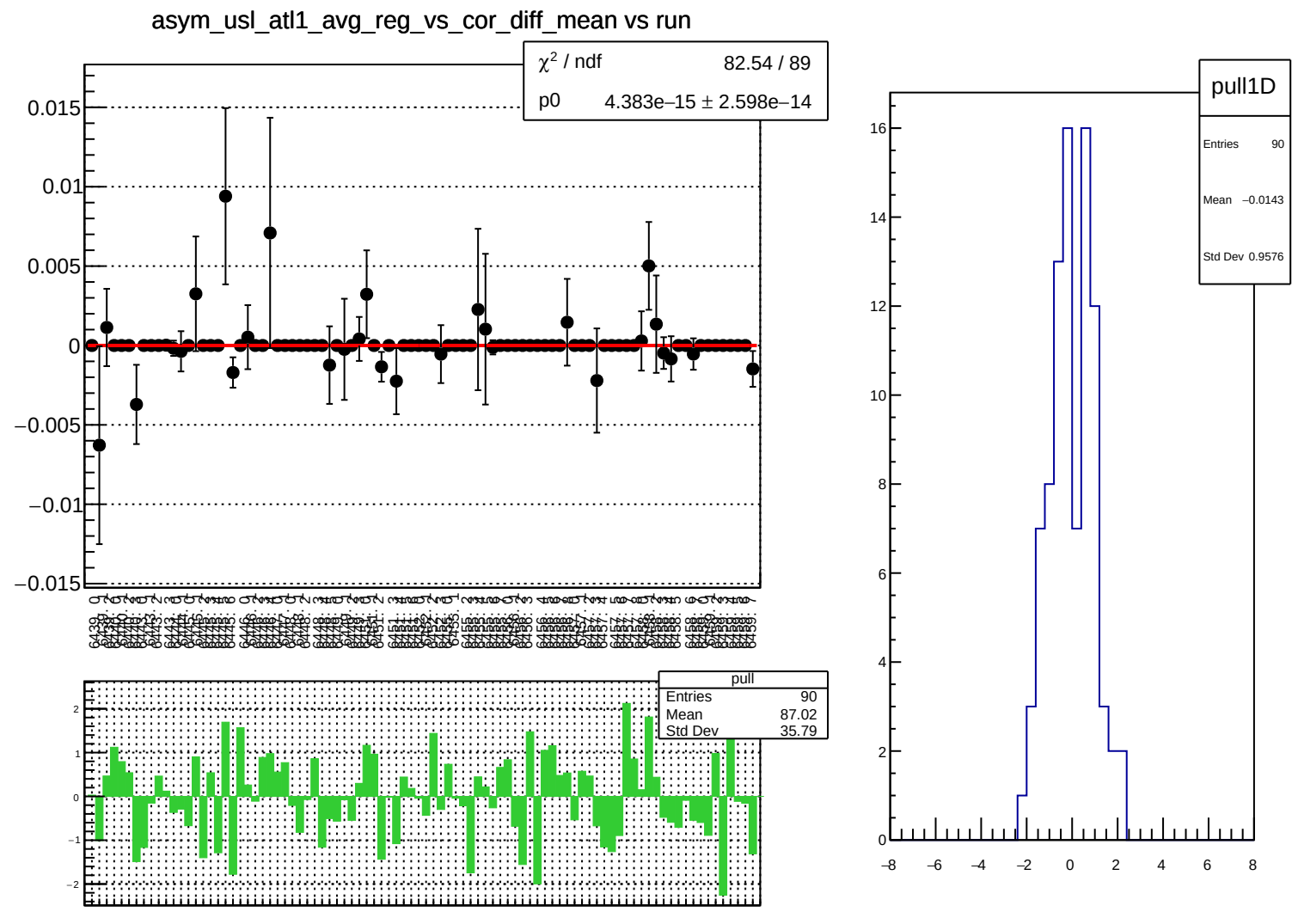

pull1D
Entries 90
Mean −0.01723
Std Dev 0.9446
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

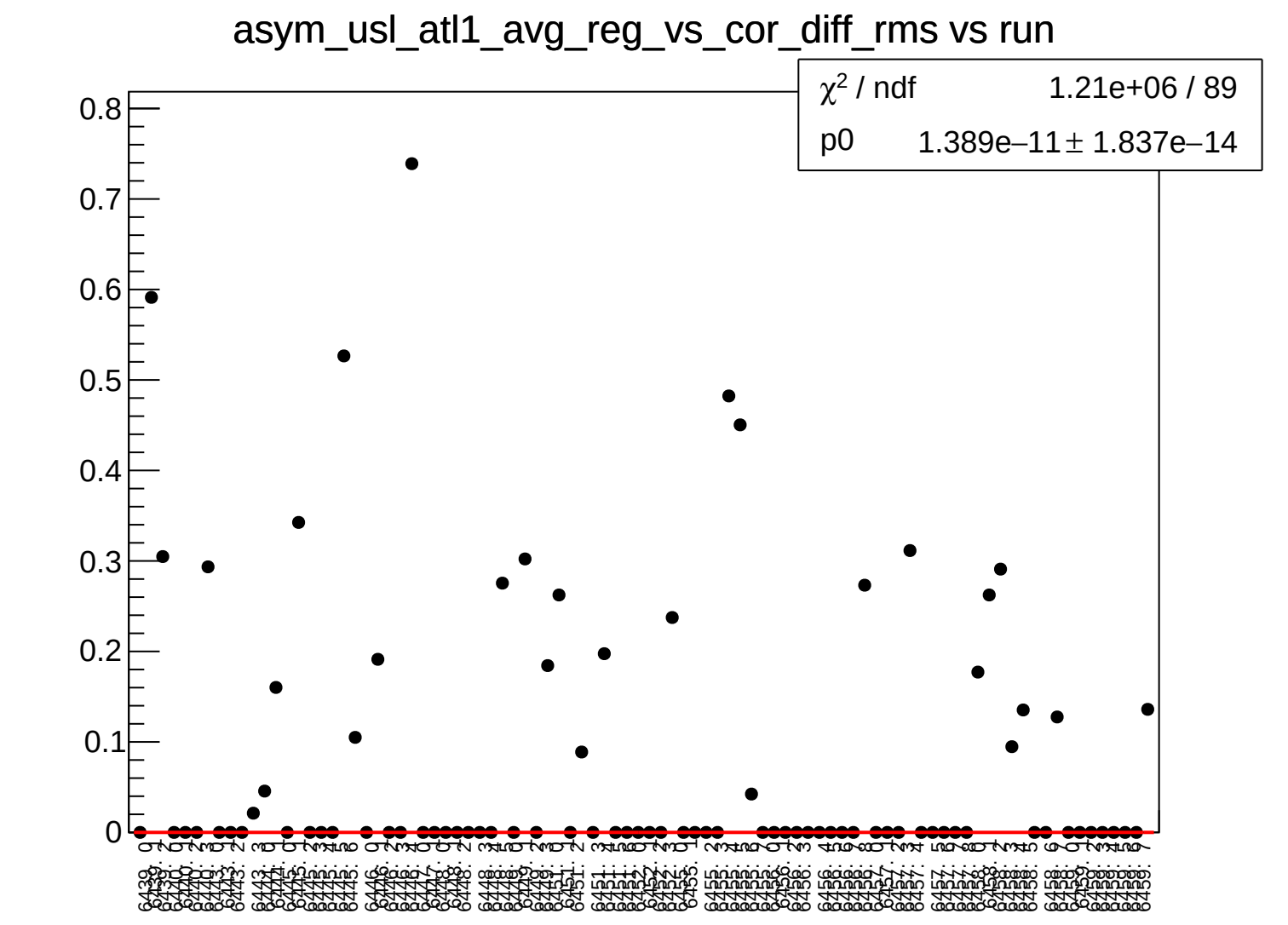

asym_usl_atl1_avg_eigen_dit_correction_rms vs run
χ² / ndf 2849 / 89
p0 1046 ± 0.7843
1200
1150
1100
1050
1000
950
900

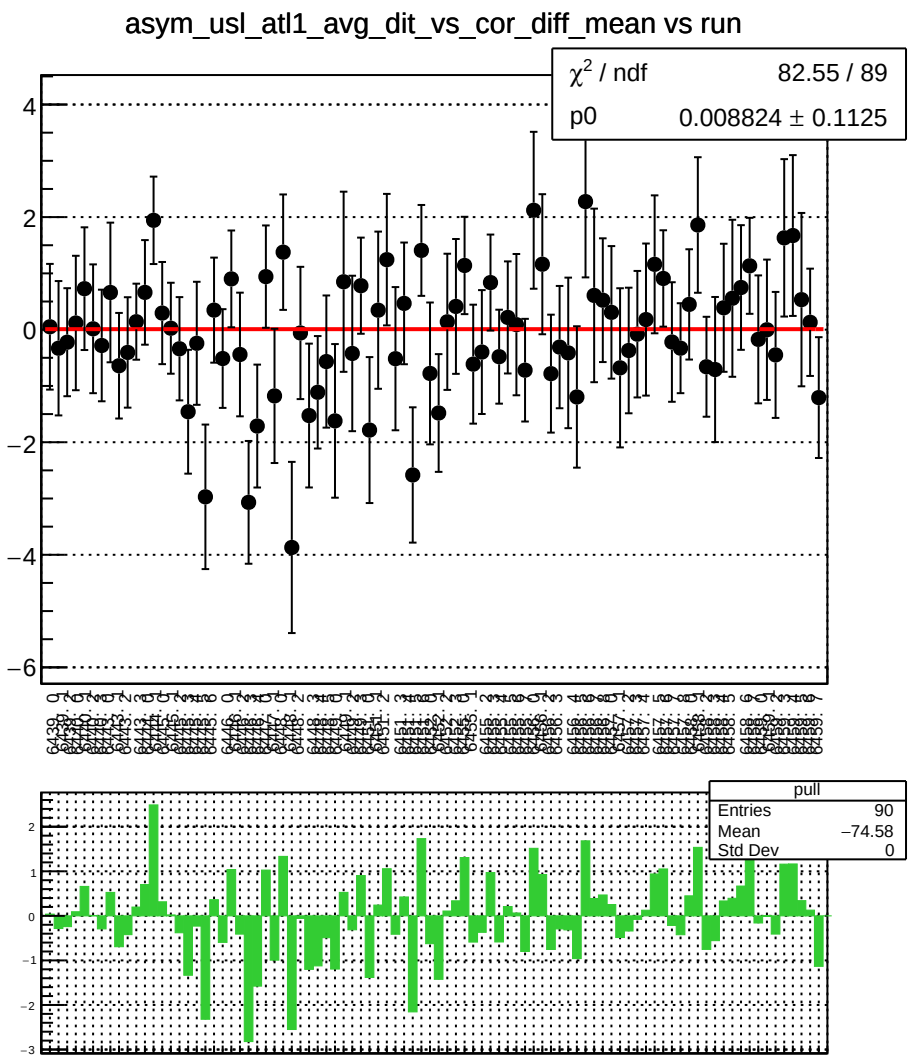

asym_usl_atl1_avg_mean vs run
χ² / ndf 95.5 / 89
p0 3038 ± 1896
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 34.05
Std Dev 53.32
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

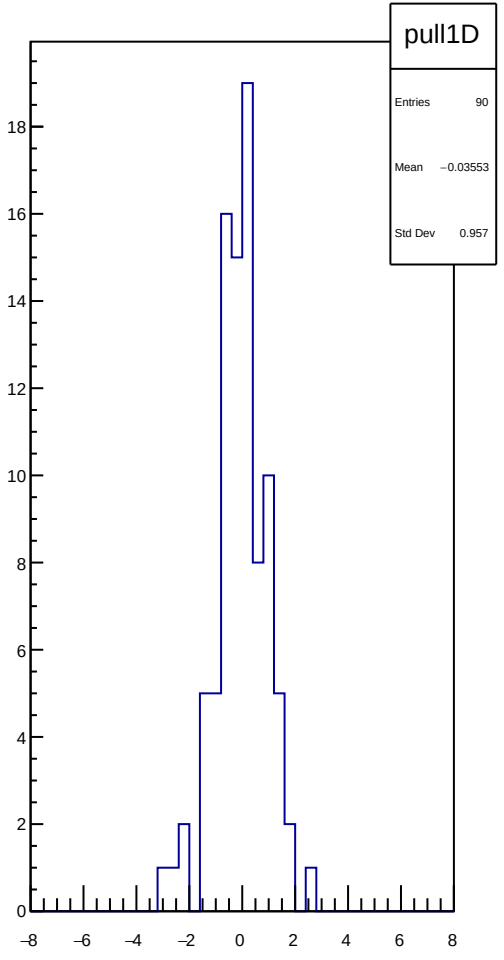

pull1D
Entries 90
Mean 0.01591
Std Dev 1.03
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

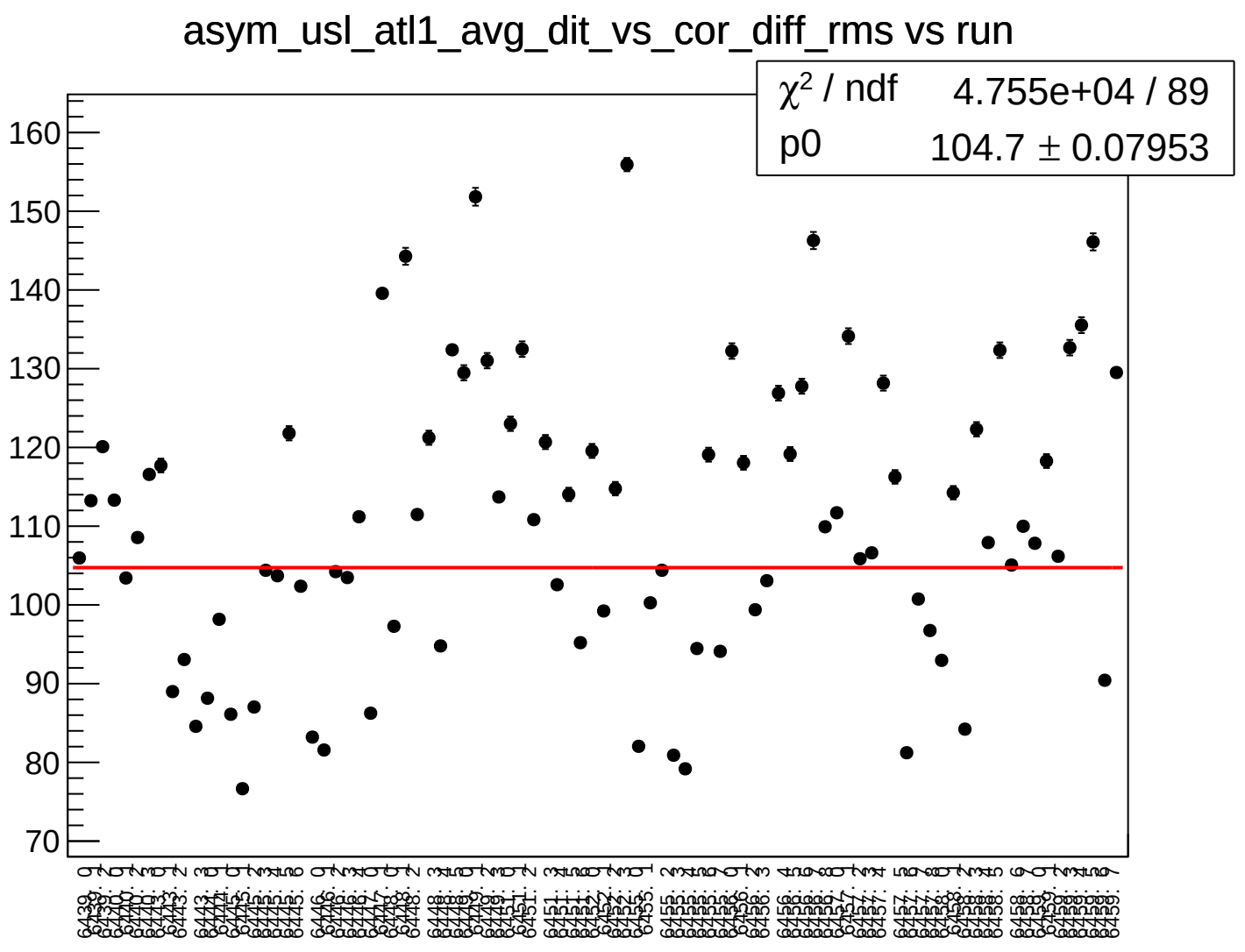

asym_usl_atl1_avg_rms vs run
χ^2 / ndf 834.3 / 89
p0 1789 ± 1.341
1900
1850
1800
1750
1700

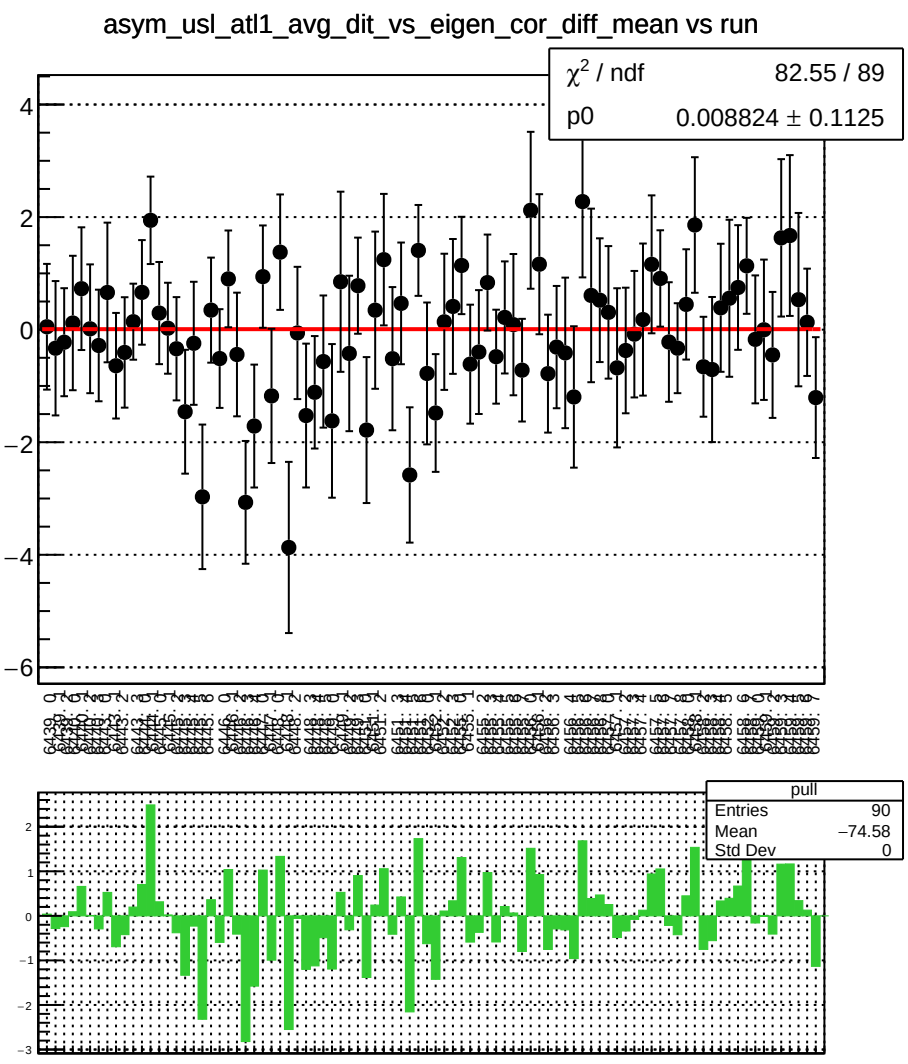

asym_usl_atl1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 82.54 / 89
p0 4.383e−15 ± 2.598e−14
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 90
Mean 87.02
Std Dev 35.79
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.0143
Std Dev 0.9576
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

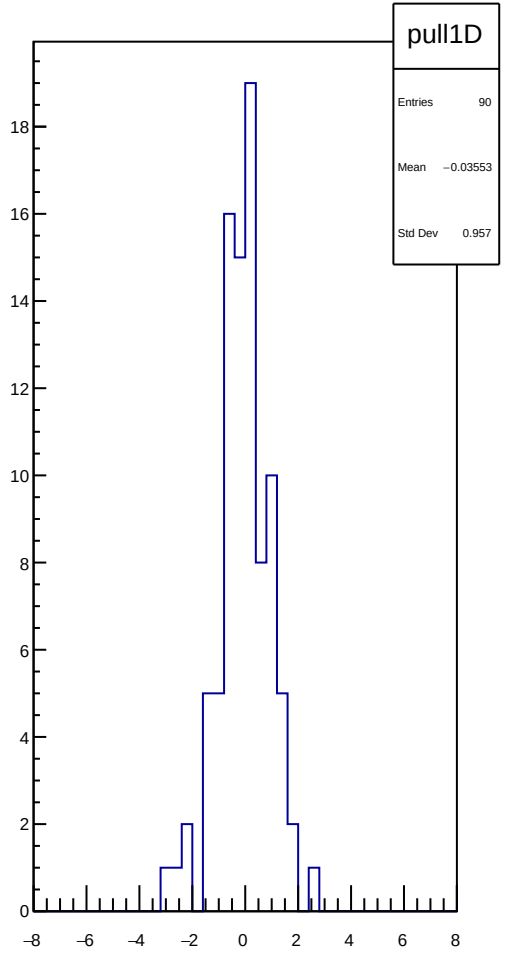

asym_usl_atl1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.21e+06 / 89
p0 1.389e−11 ± 1.837e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

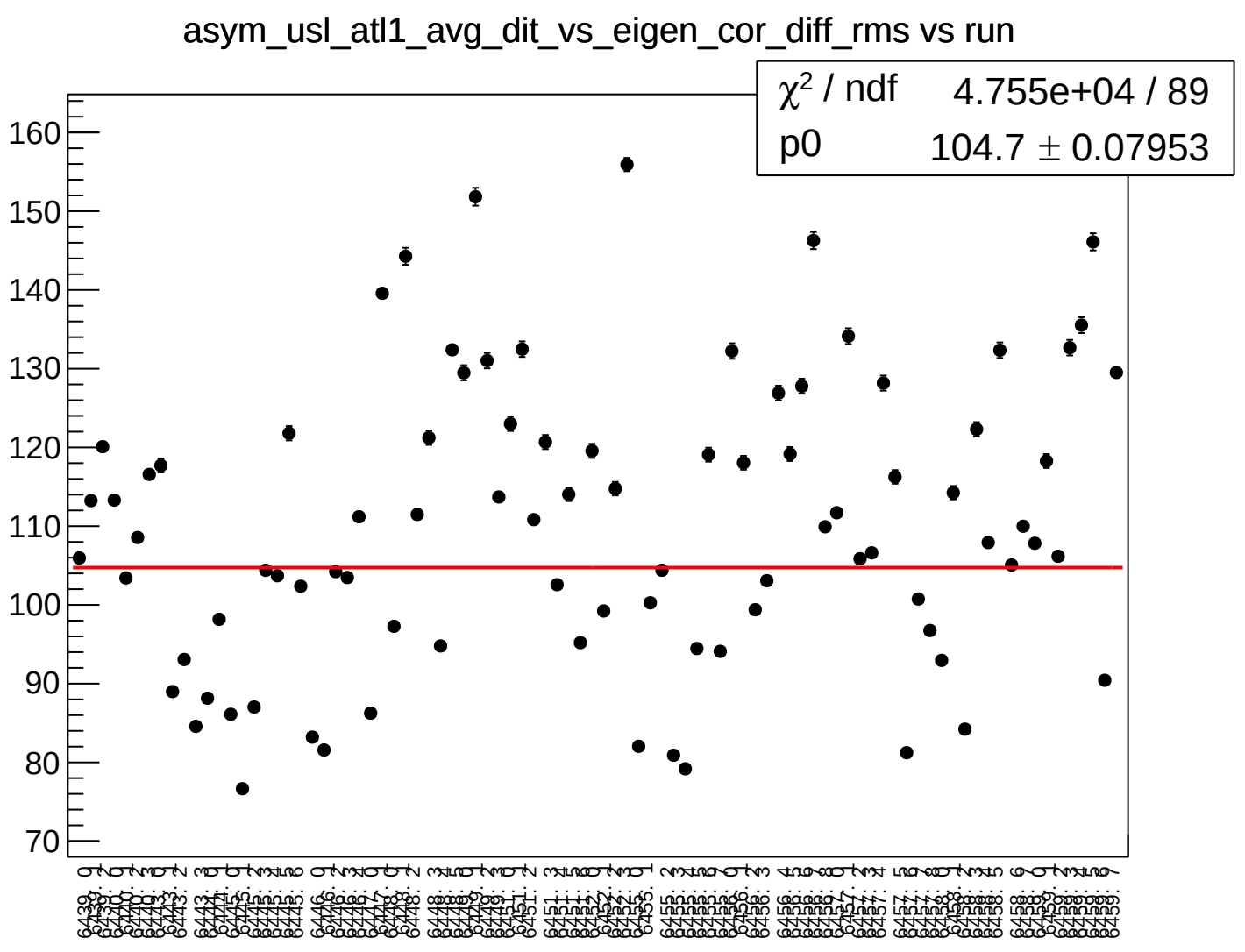

asym_usl_atl1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 82.55 / 89
p0 0.008824 ± 0.1125
pull
Entries 90
Mean −74.58
Std Dev 0

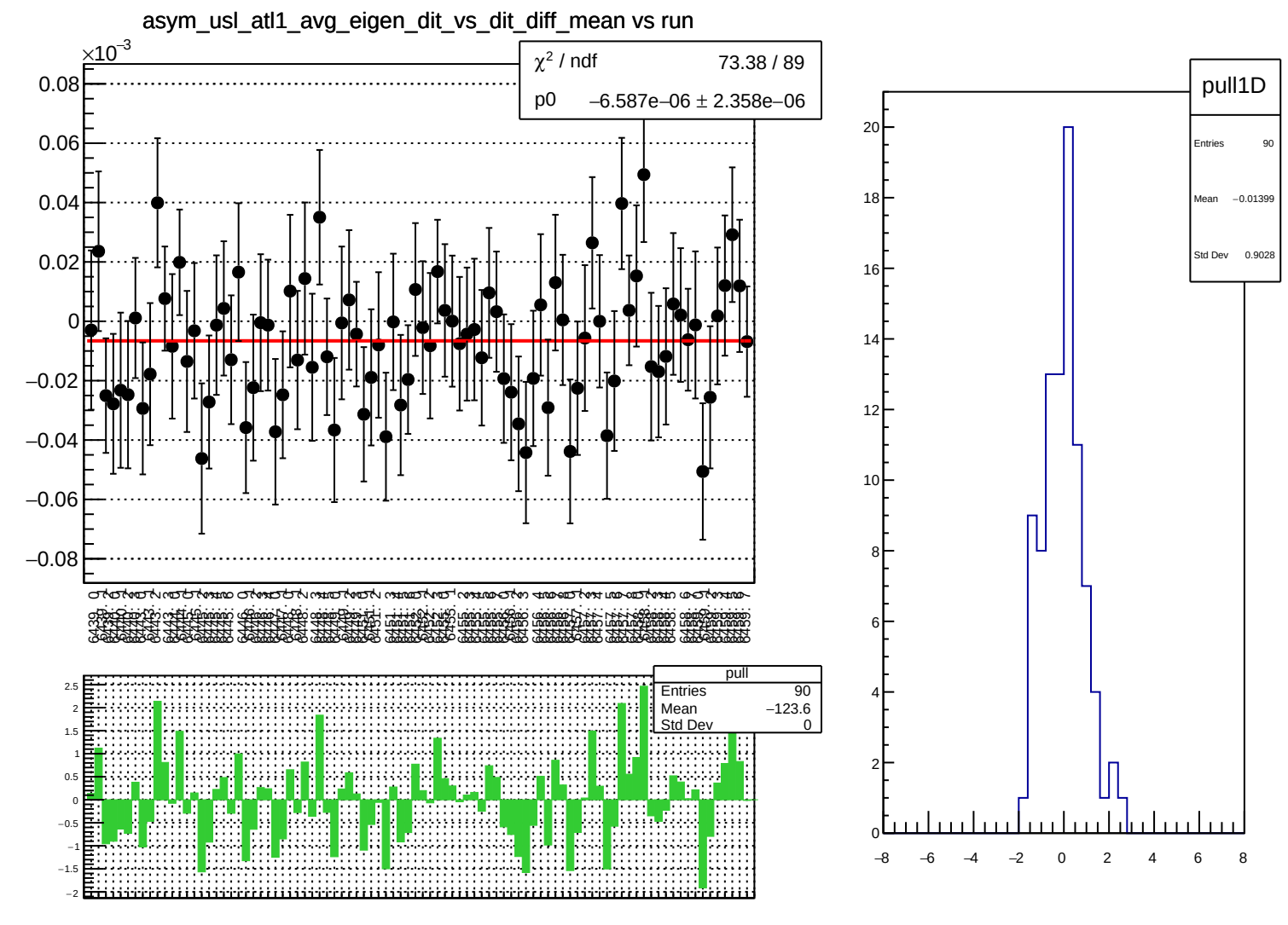

pull1D
Entries 90
Mean −0.03553
Std Dev 0.957

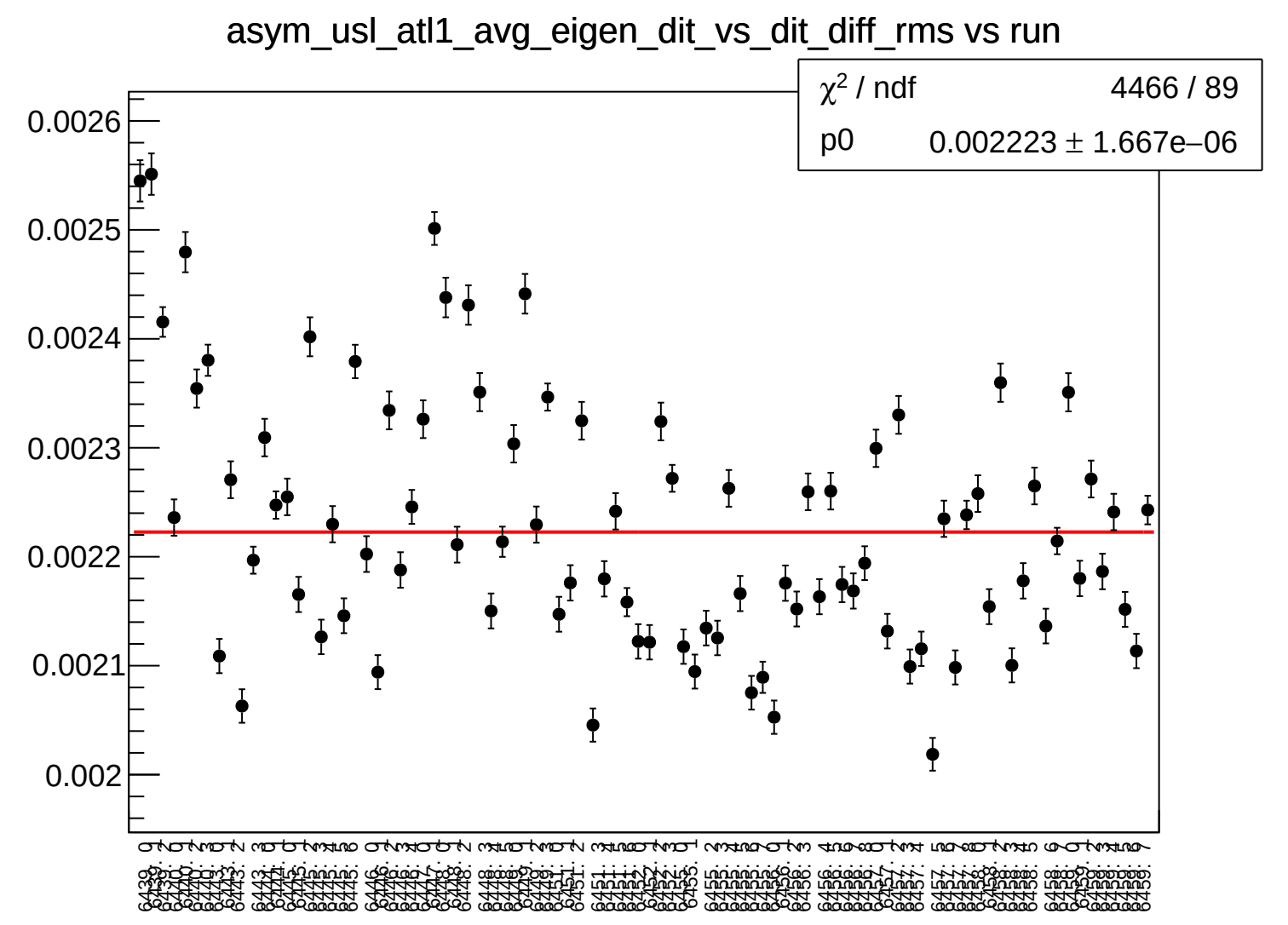

asym_usl_atl1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.755e+04 / 89
p0 104.7 ± 0.07953
160
150
140
130
120
110
100
90
80
70

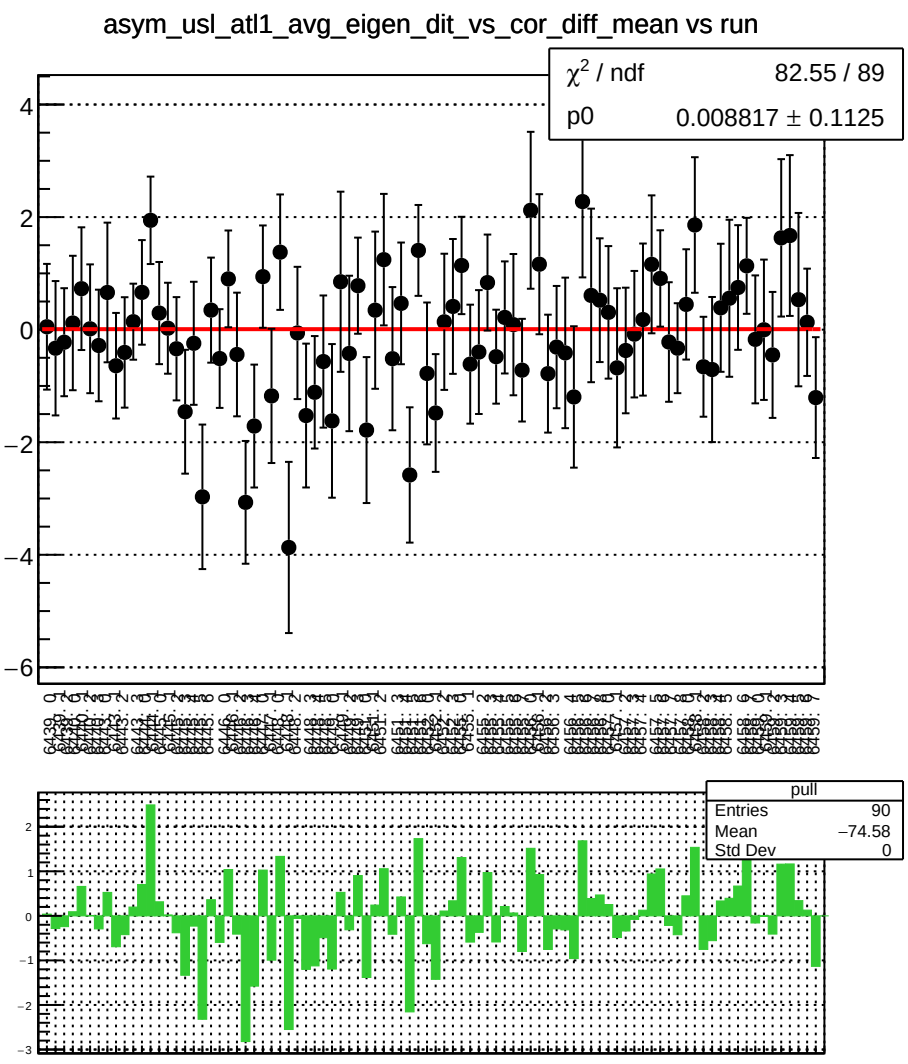

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.55 / 89
p0 0.008824 ± 0.1125
pull
Entries 90
Mean −74.58
Std Dev 0

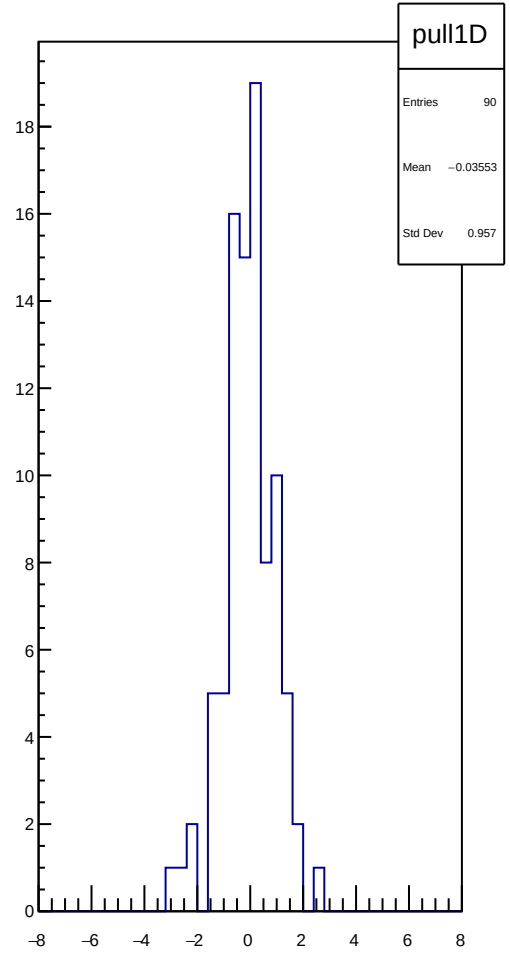

pull1D
Entries 90
Mean −0.03553
Std Dev 0.957

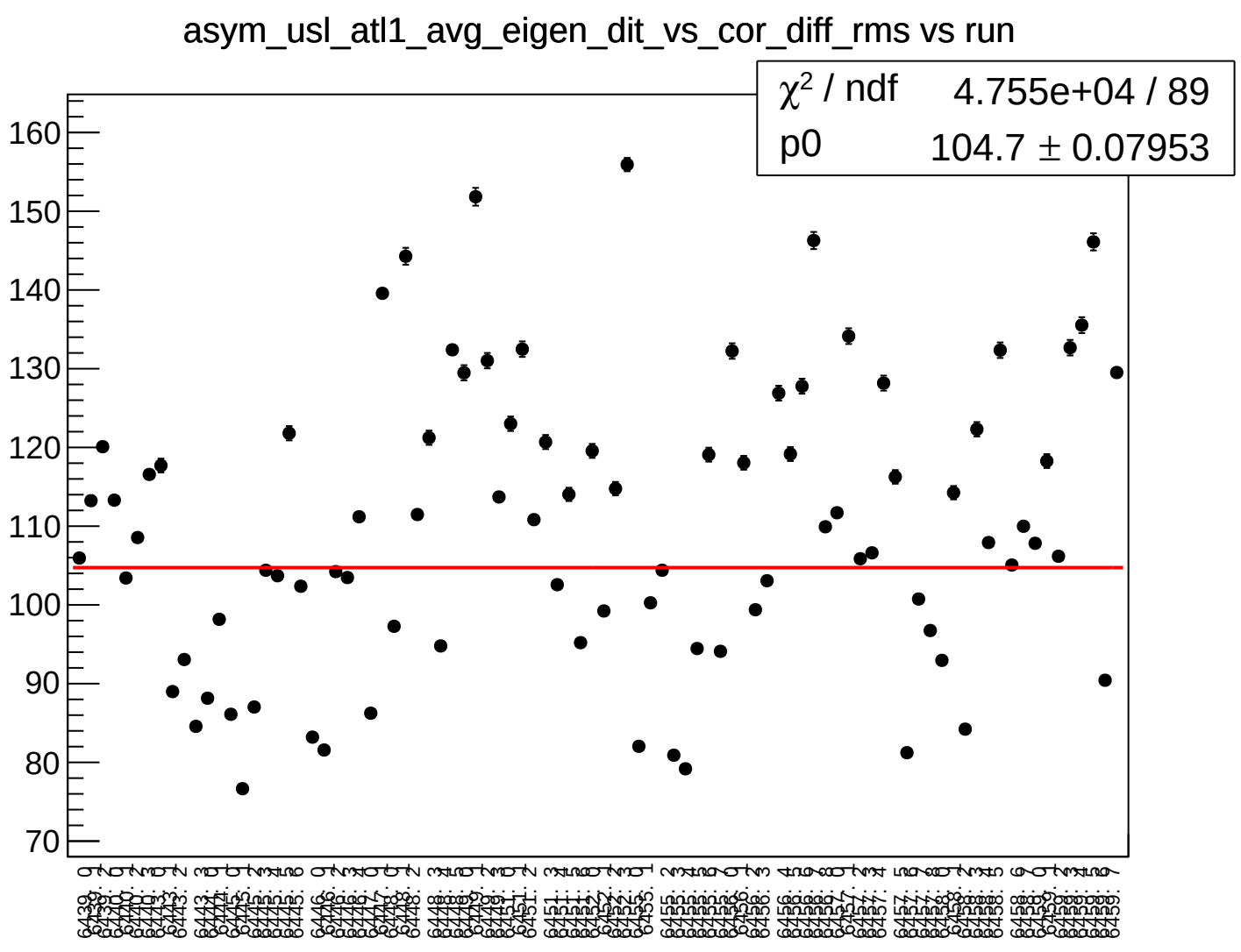

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.755e+04 / 89
p0 104.7 ± 0.07953
160
150
140
130
120
110
100
90
80
70

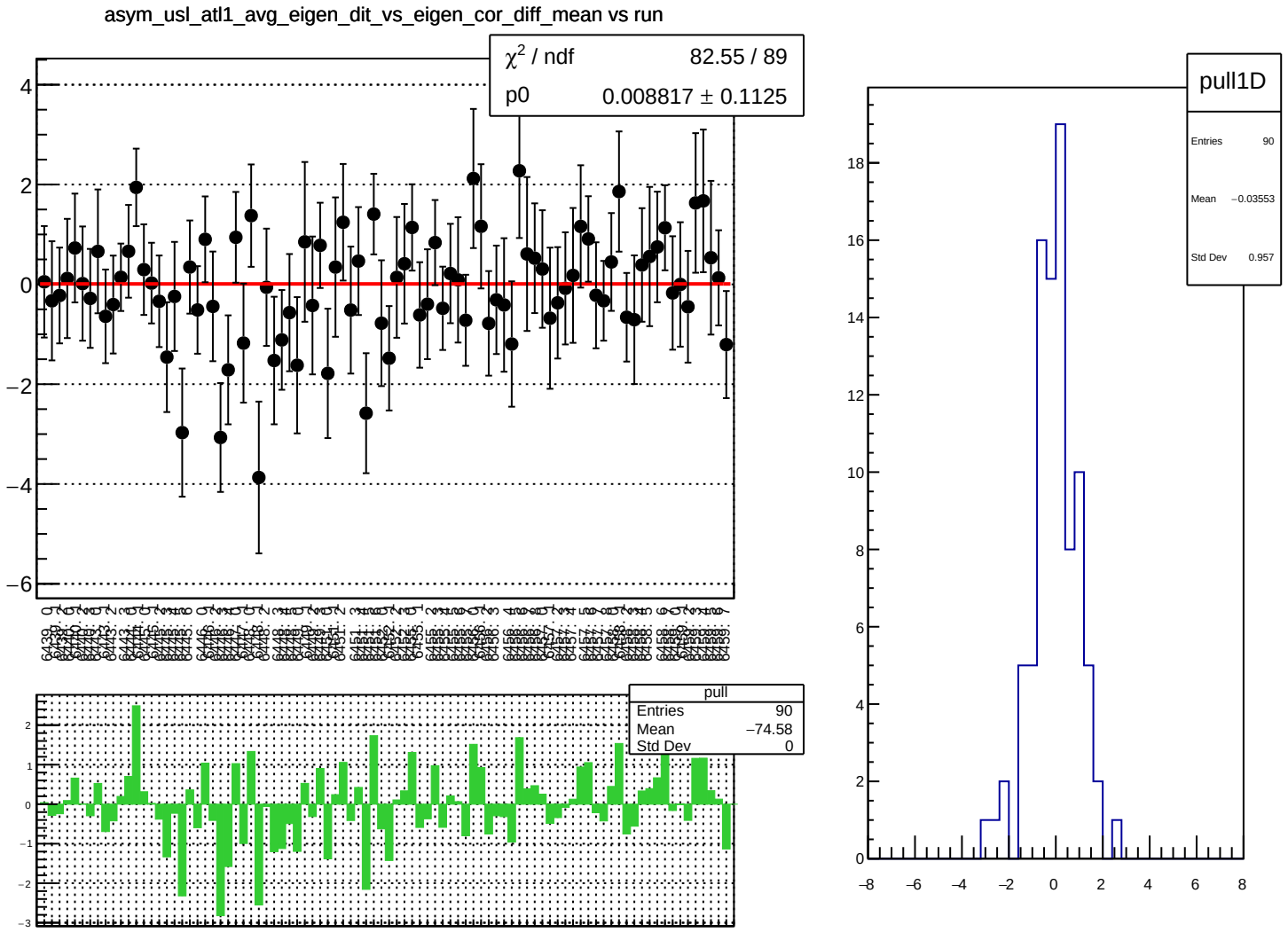

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.38 / 89
p0 −6.587e−06 ± 2.358e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 90
Mean −123.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 90
Mean −0.01399
Std Dev 0.9028
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

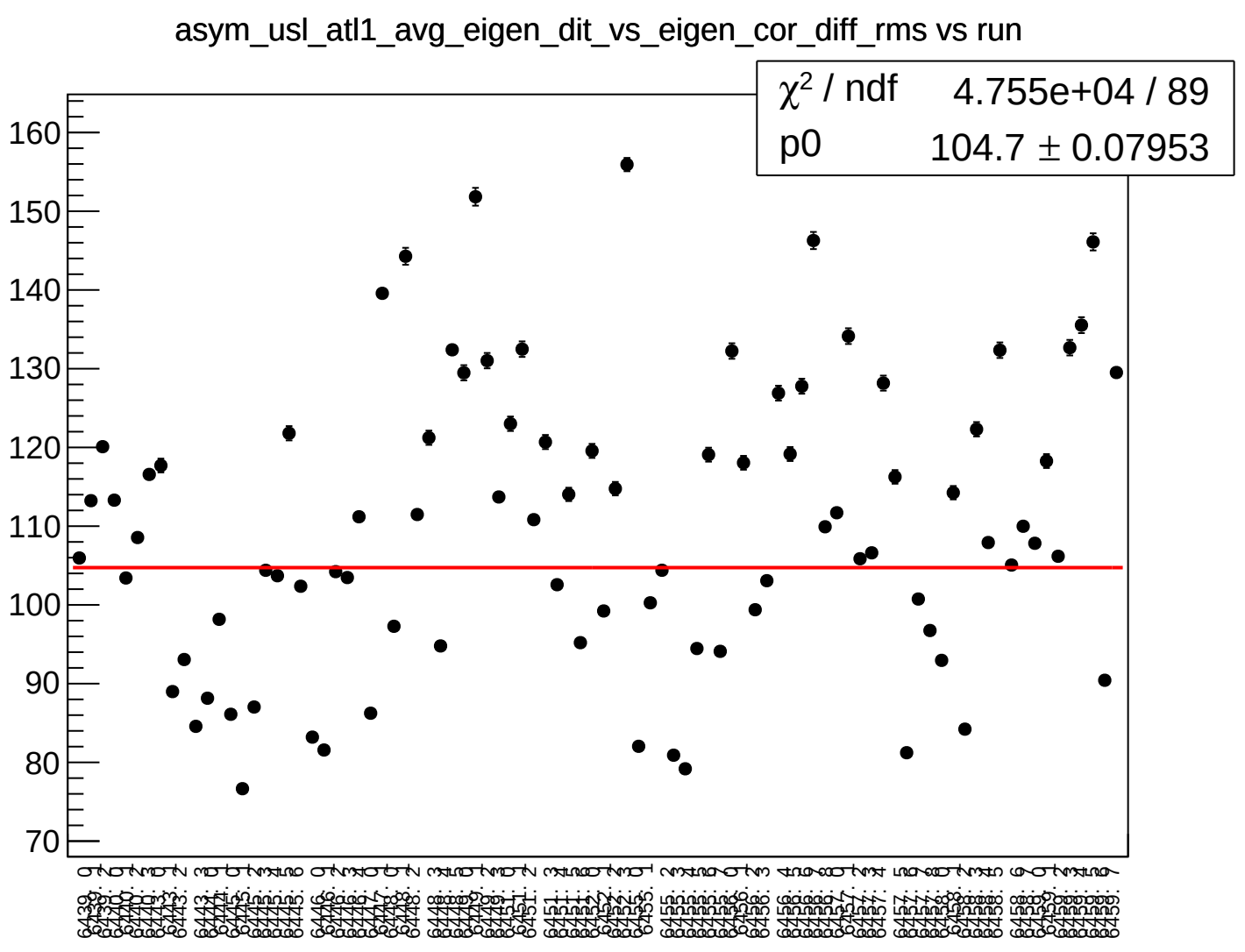

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4466 / 89
p0 0.002223 ± 1.667e−06
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021
0.002

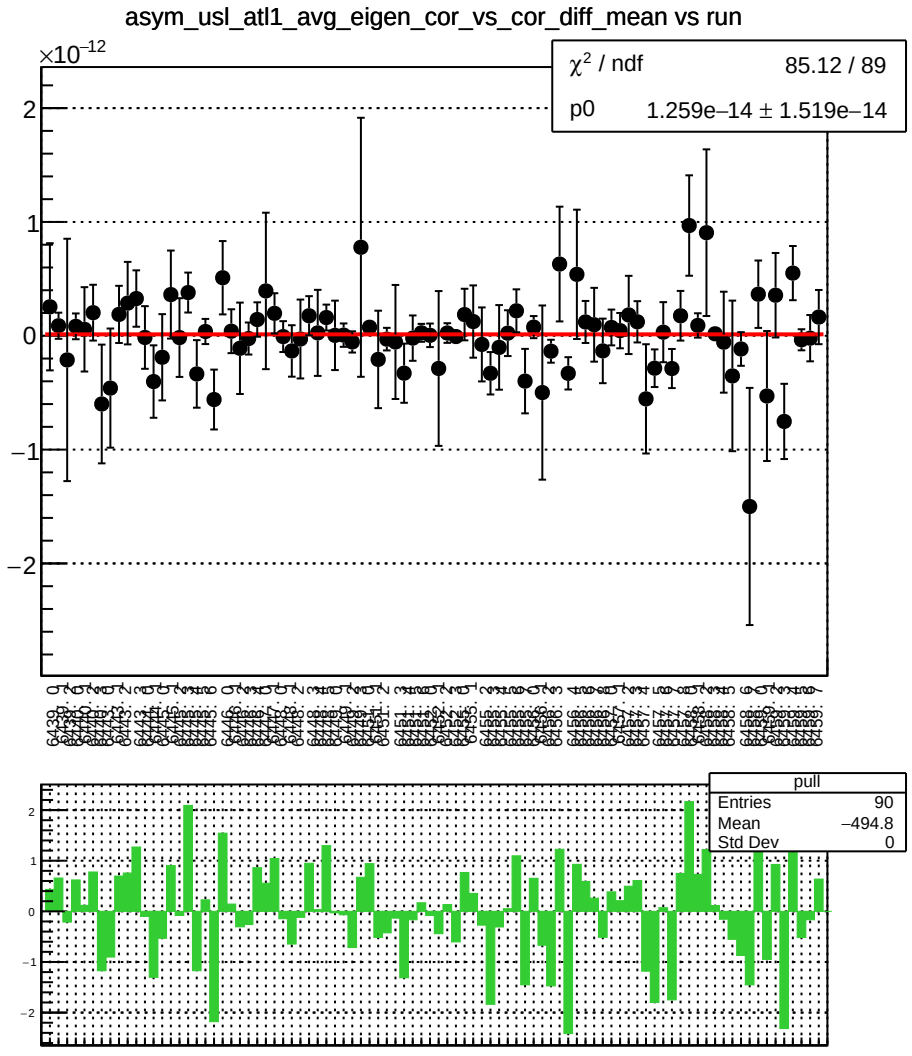

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.55 / 89
p0 0.008817 ± 0.1125
pull
Entries 90
Mean −74.58
Std Dev 0

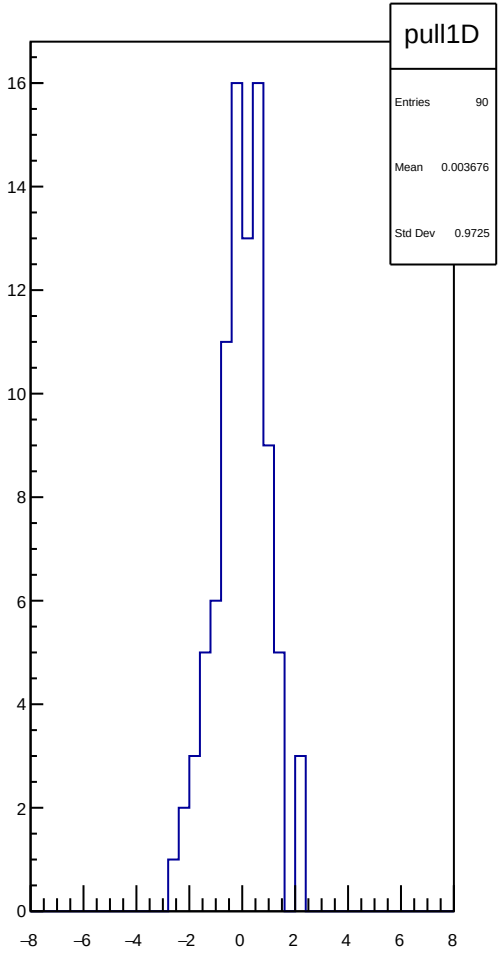

pull1D
Entries 90
Mean −0.03553
Std Dev 0.957

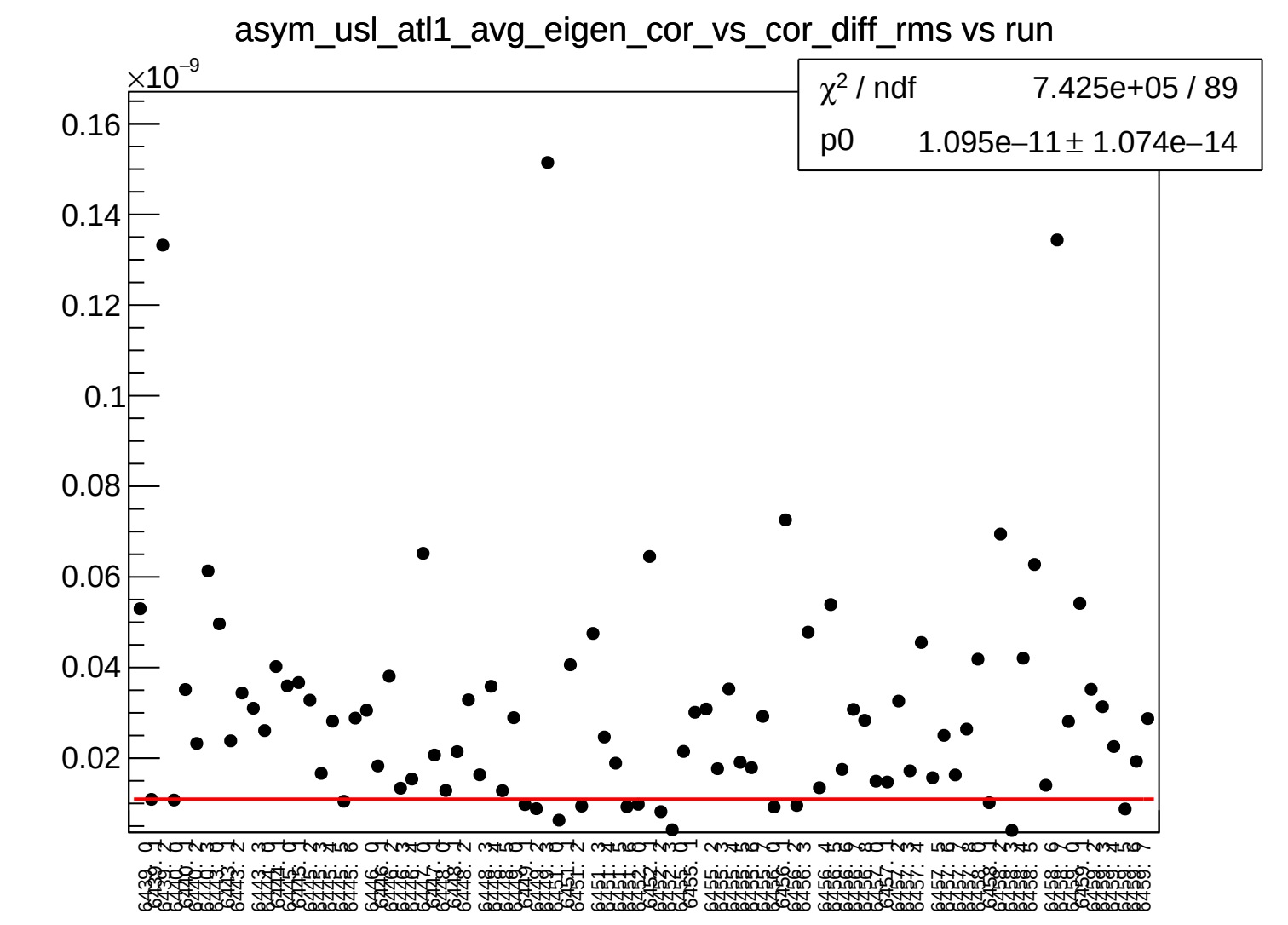

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.755e+04 / 89
p0 104.7 ± 0.07953
160
150
140
130
120
110
100
90
80
70

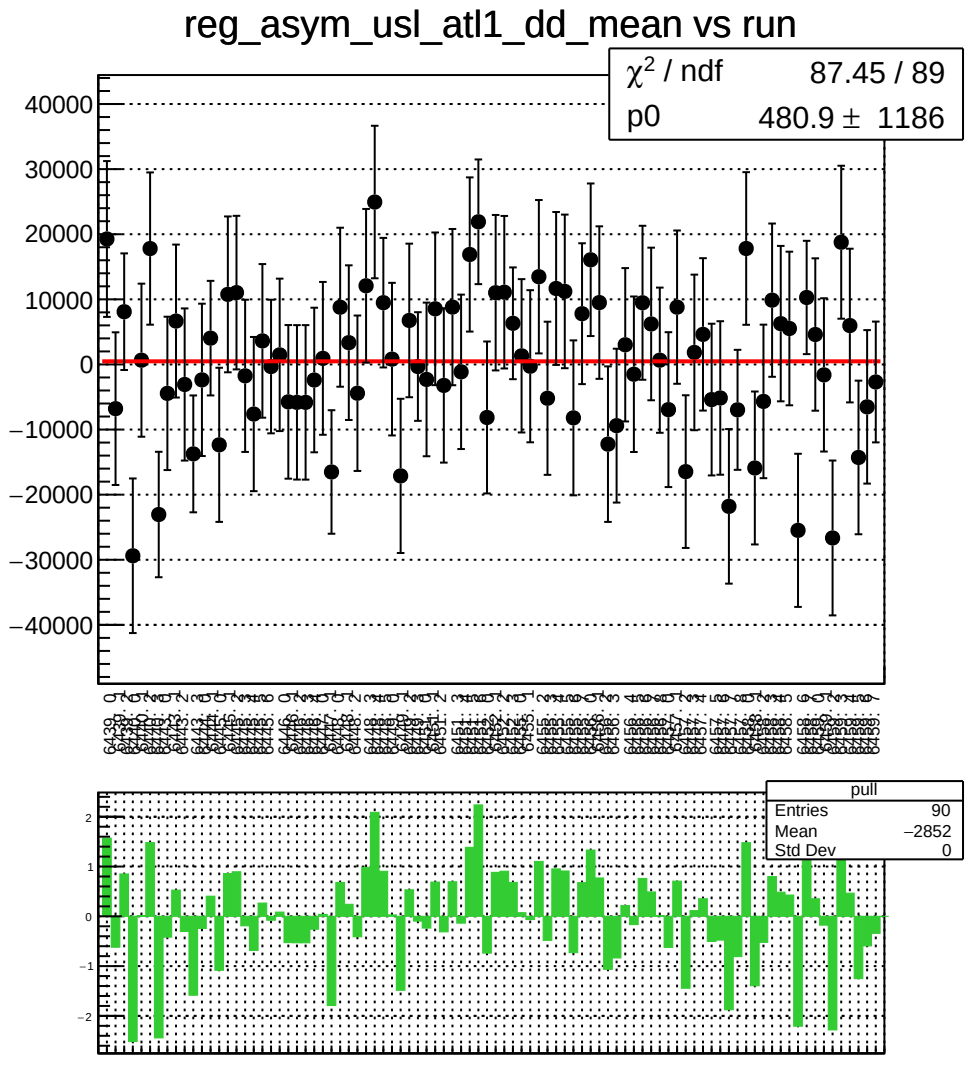

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.55 / 89
p0 0.008817 ± 0.1125
pull
Entries 90
Mean −74.58
Std Dev 0
pull1D
Entries 90
Mean −0.03553
Std Dev 0.957

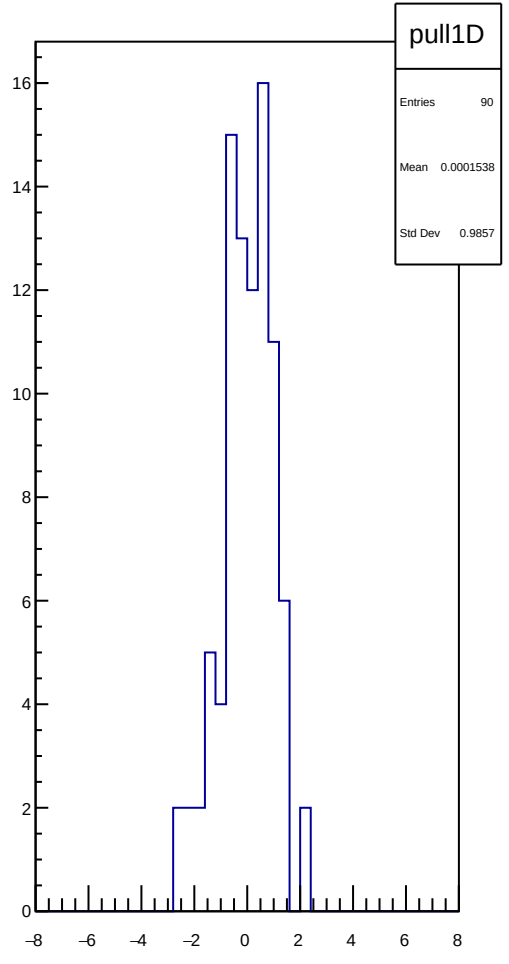

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.755e+04 / 89
p0 104.7 ± 0.07953
160
150
140
130
120
110
100
90
80
70

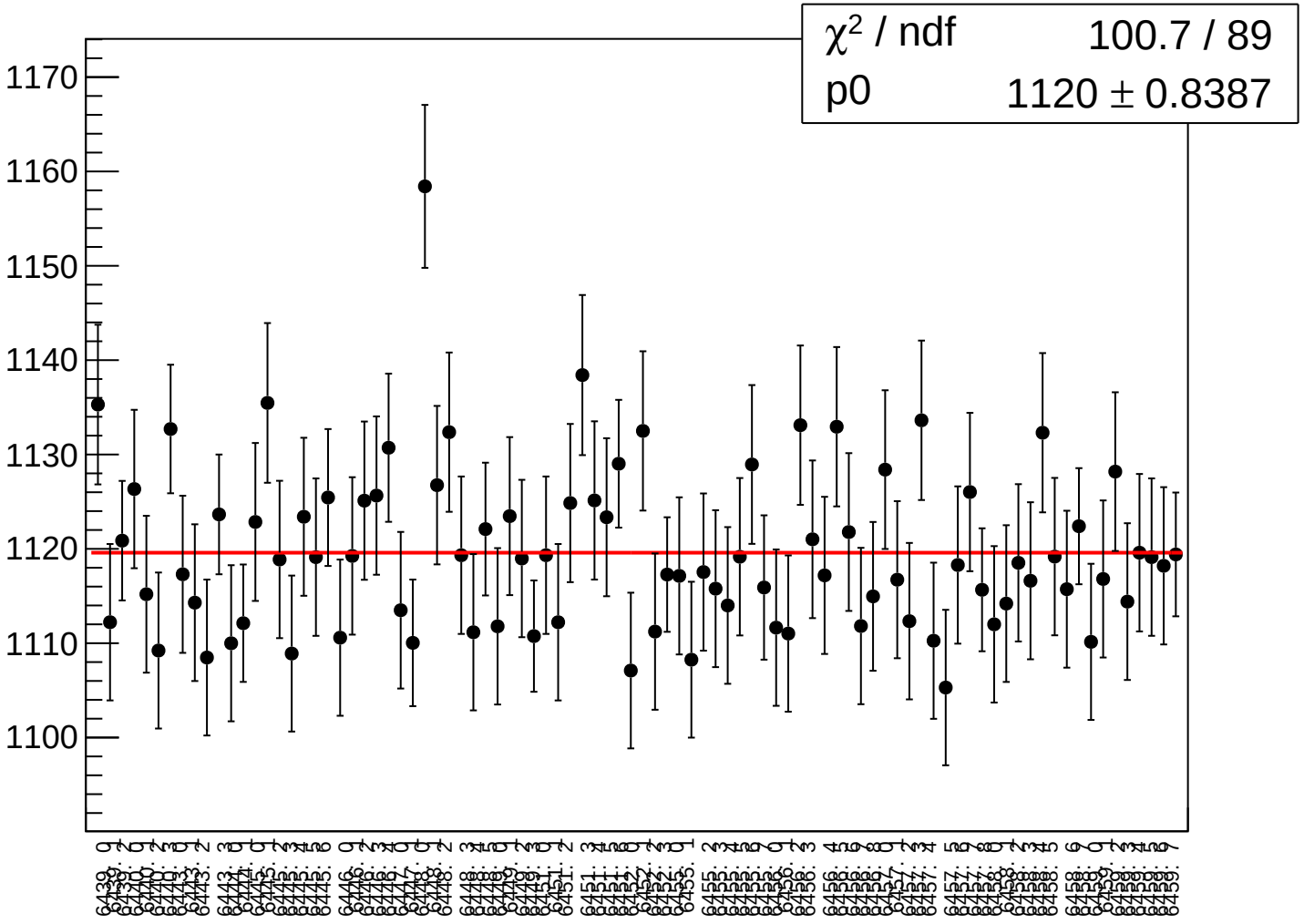

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.12 / 89
p0 1.259e−14 ± 1.519e−14
pull
Entries 90
Mean −494.8
Std Dev 0

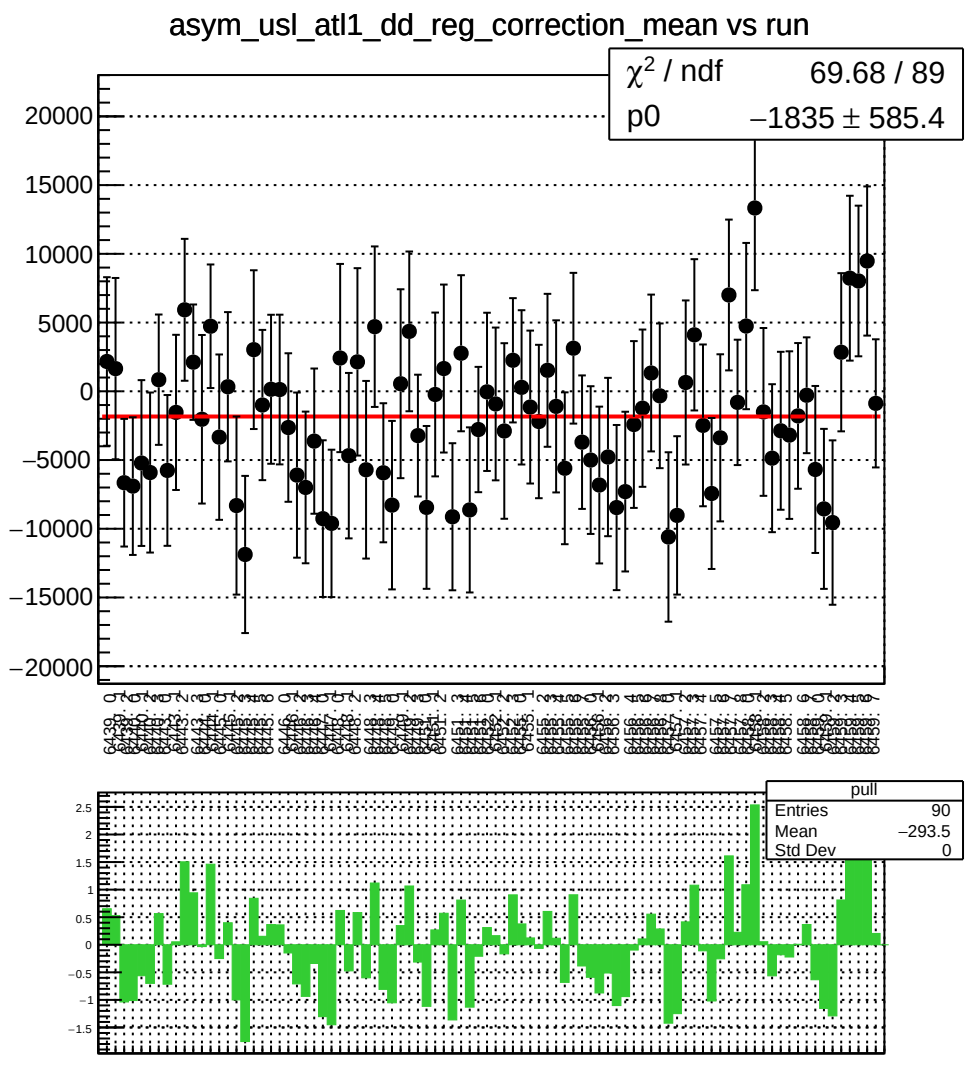

pull1D
Entries 90
Mean 0.003676
Std Dev 0.9725

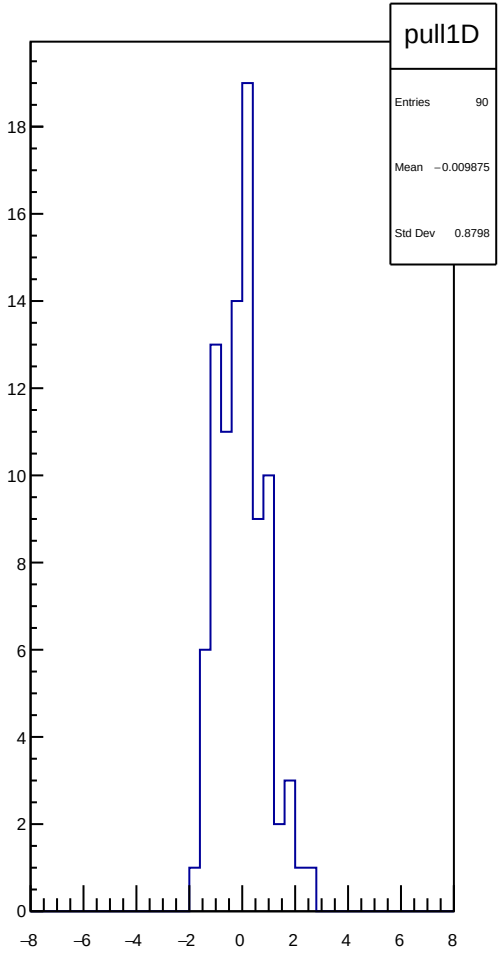

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.425e+05 / 89
p0 1.095e−11 ± 1.074e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

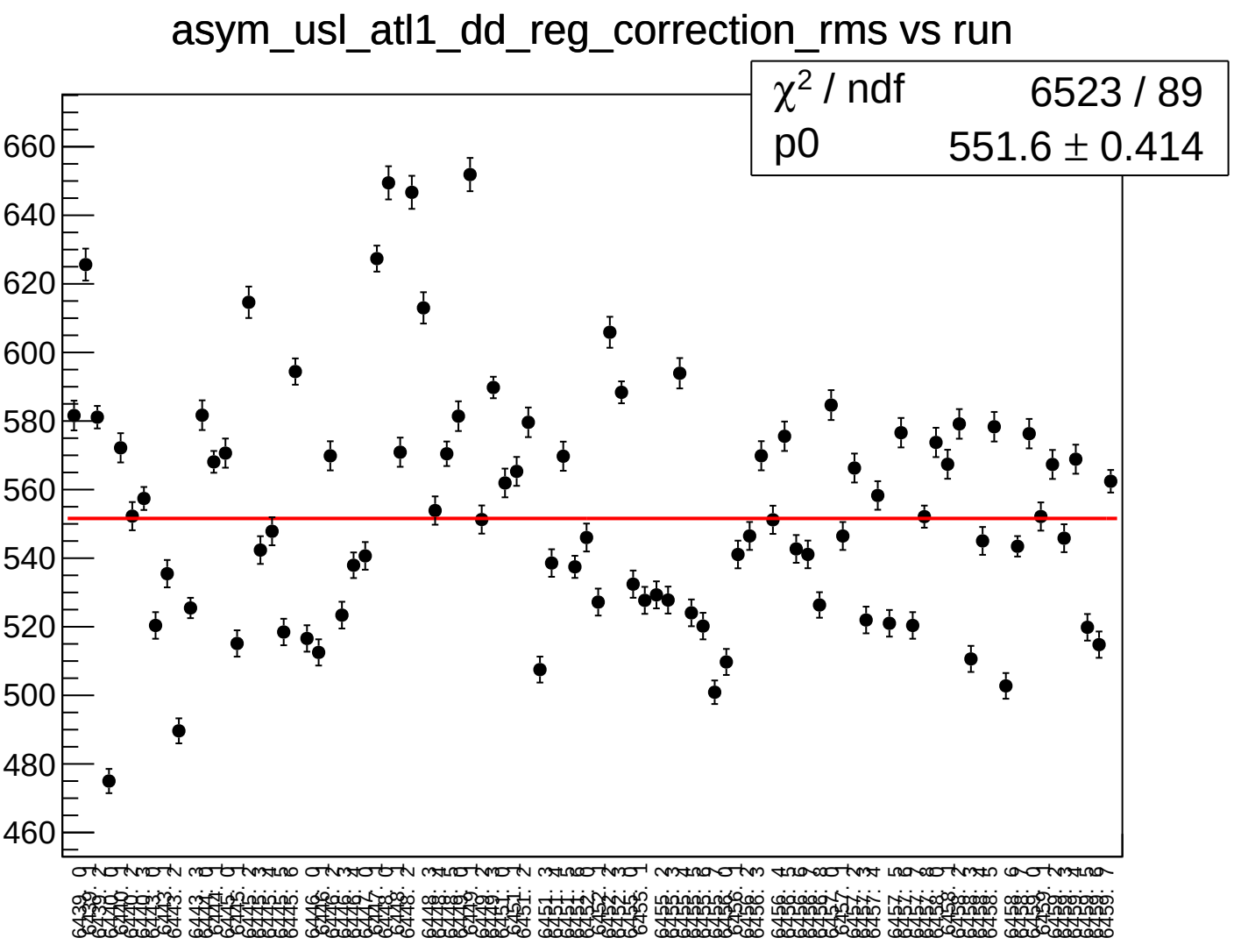

reg_asym_usl_atl1_dd_mean vs run
χ² / ndf 87.45 / 89
p0 480.9 ± 1186
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 90
Mean −2852
Std Dev 0
2
1
0
−1
−2

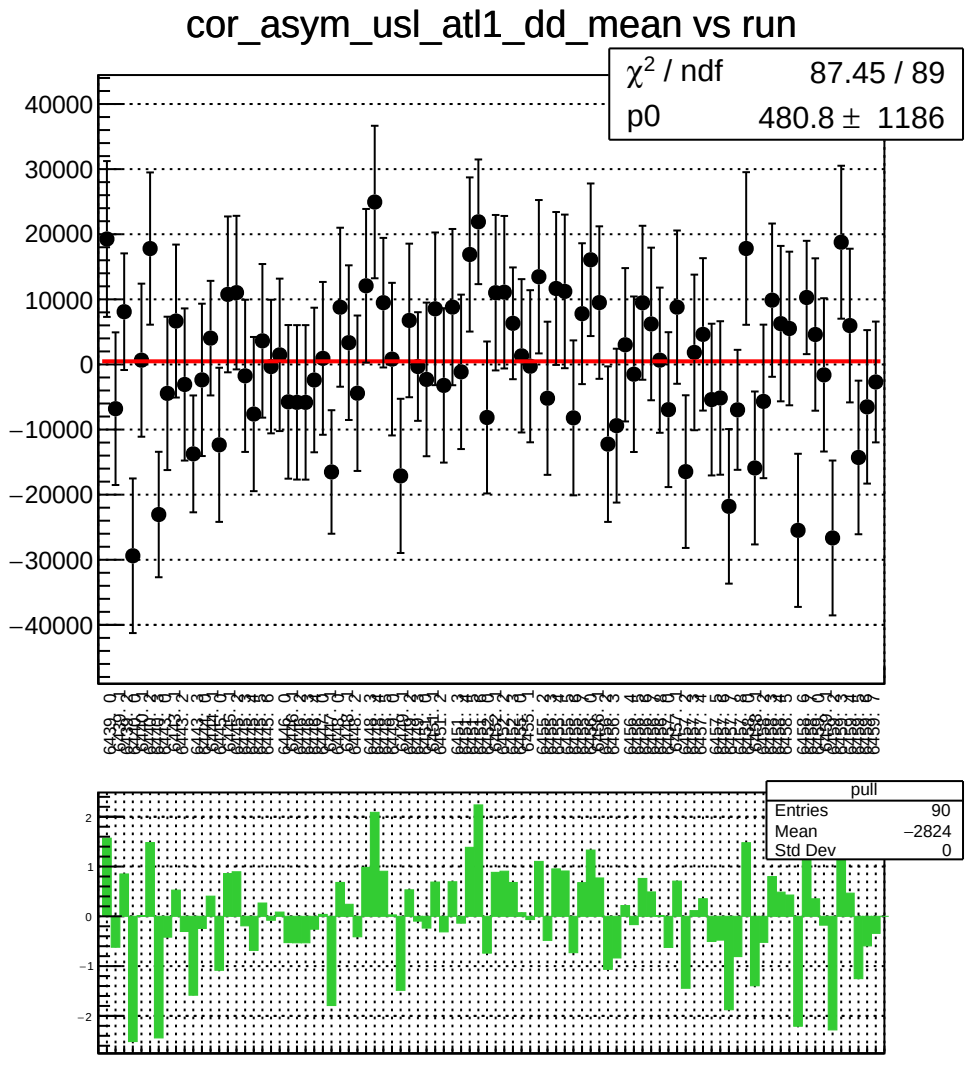

pull1D
Entries 90
Mean 0.0001538
Std Dev 0.9857
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

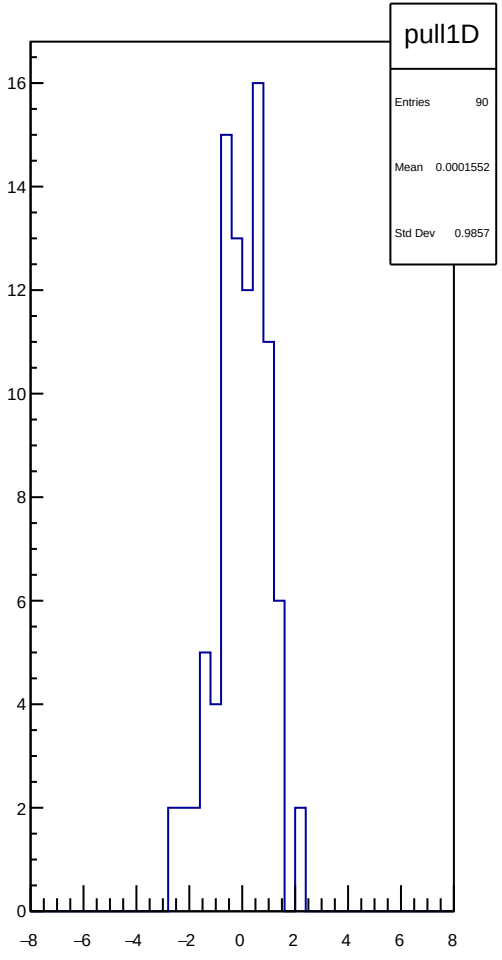

reg_asym_usl_atl1_dd_rms vs run
χ² / ndf 100.7 / 89
p0 1120 ± 0.8387
1170
1160
1150
1140
1130
1120
1110
1100

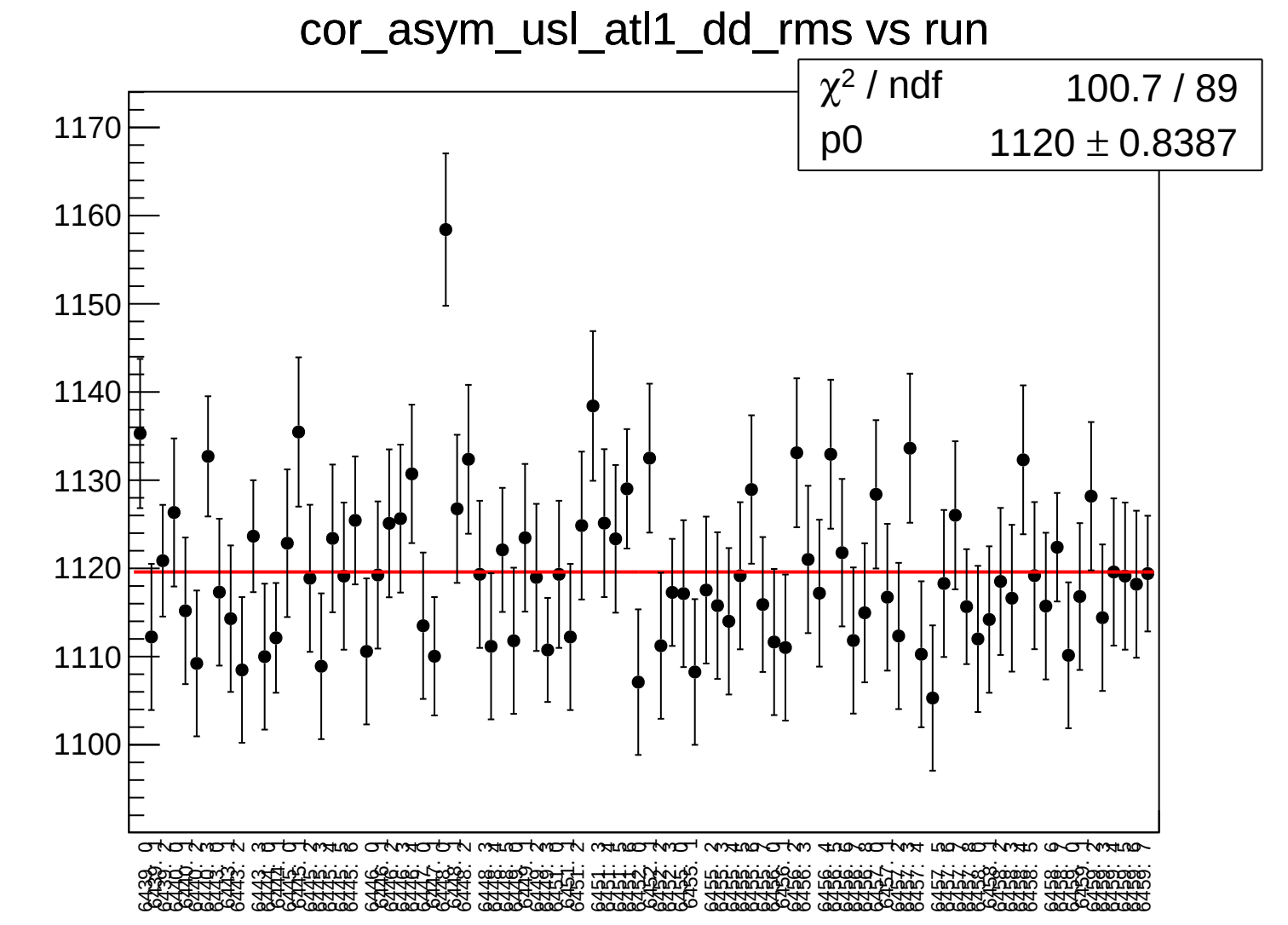

asym_usl_atl1_dd_reg_correction_mean vs run
χ² / ndf 69.68 / 89
p0 −1835 ± 585.4
pull
Entries 90
Mean −293.5
Std Dev 0

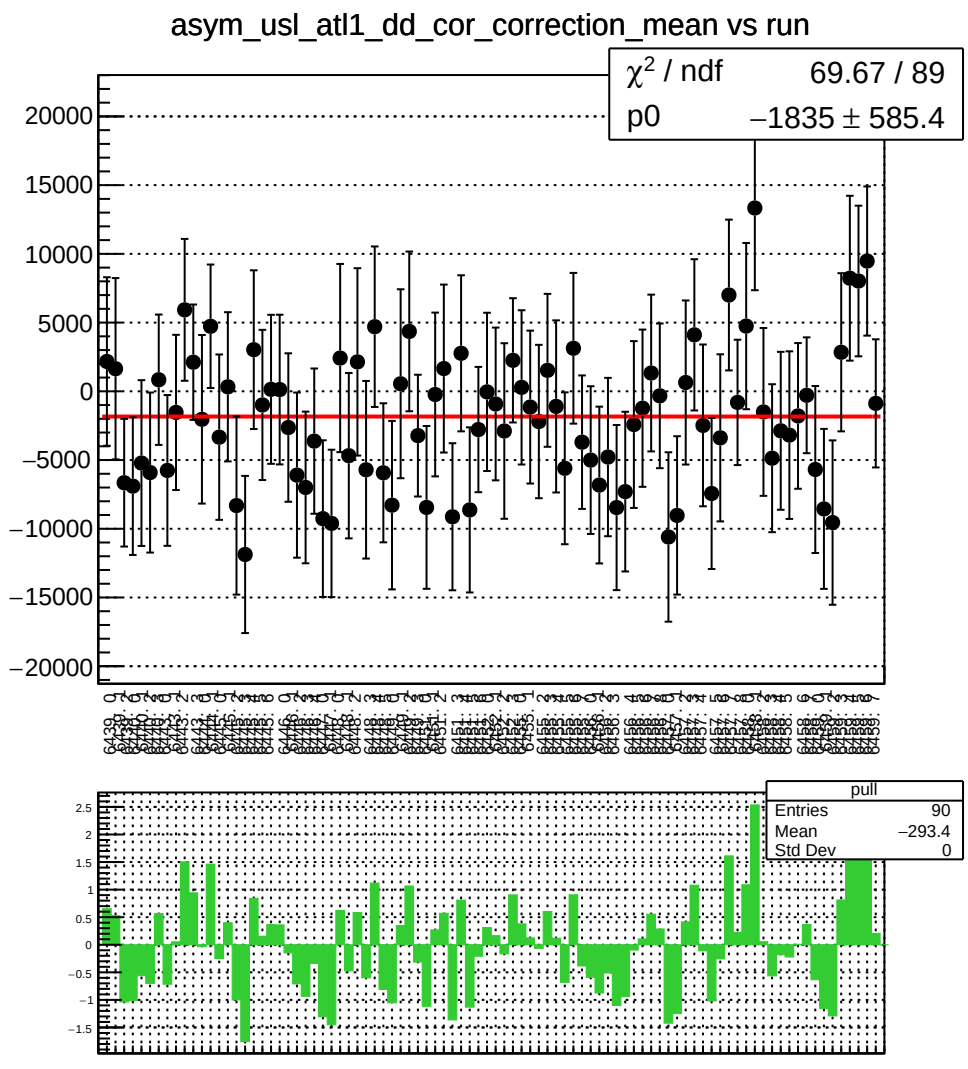

pull1D
Entries 90
Mean −0.009875
Std Dev 0.8798

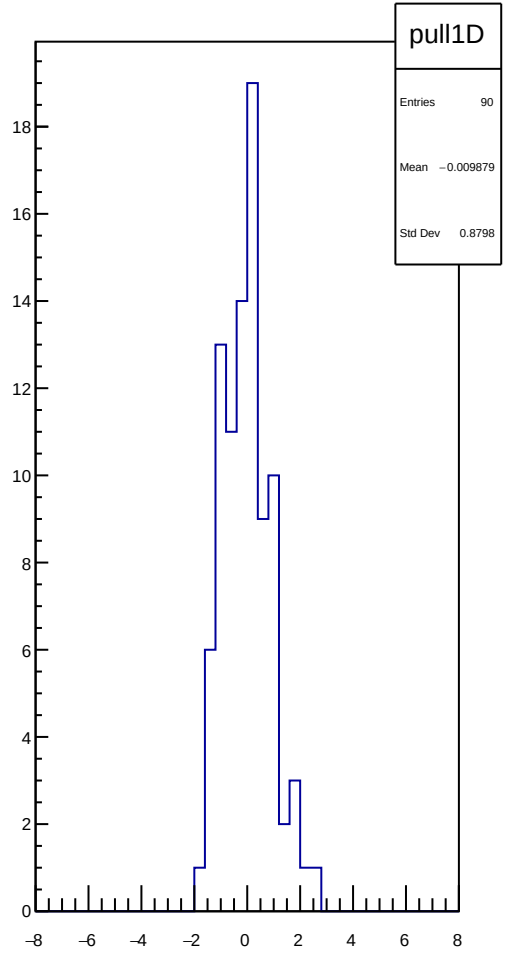

asym_usl_atl1_dd_reg_correction_rms vs run
χ² / ndf 6523 / 89
p0 551.6 ± 0.414
660
640
620
600
580
560
540
520
500
480
460

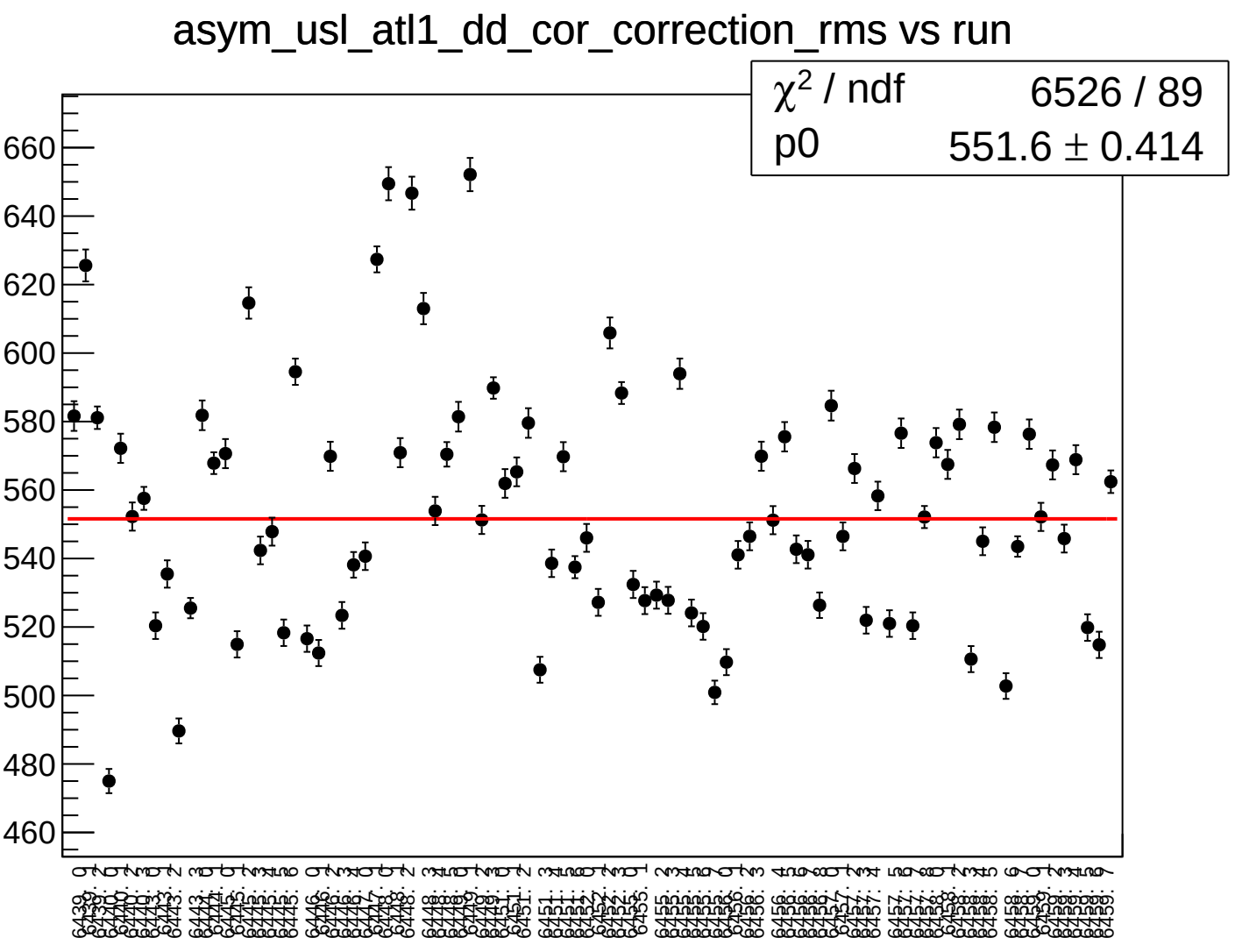

cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 87.45 / 89
p0 480.8 ± 1186
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 90
Mean −2824
Std Dev 0
2
1
0
−1
−2

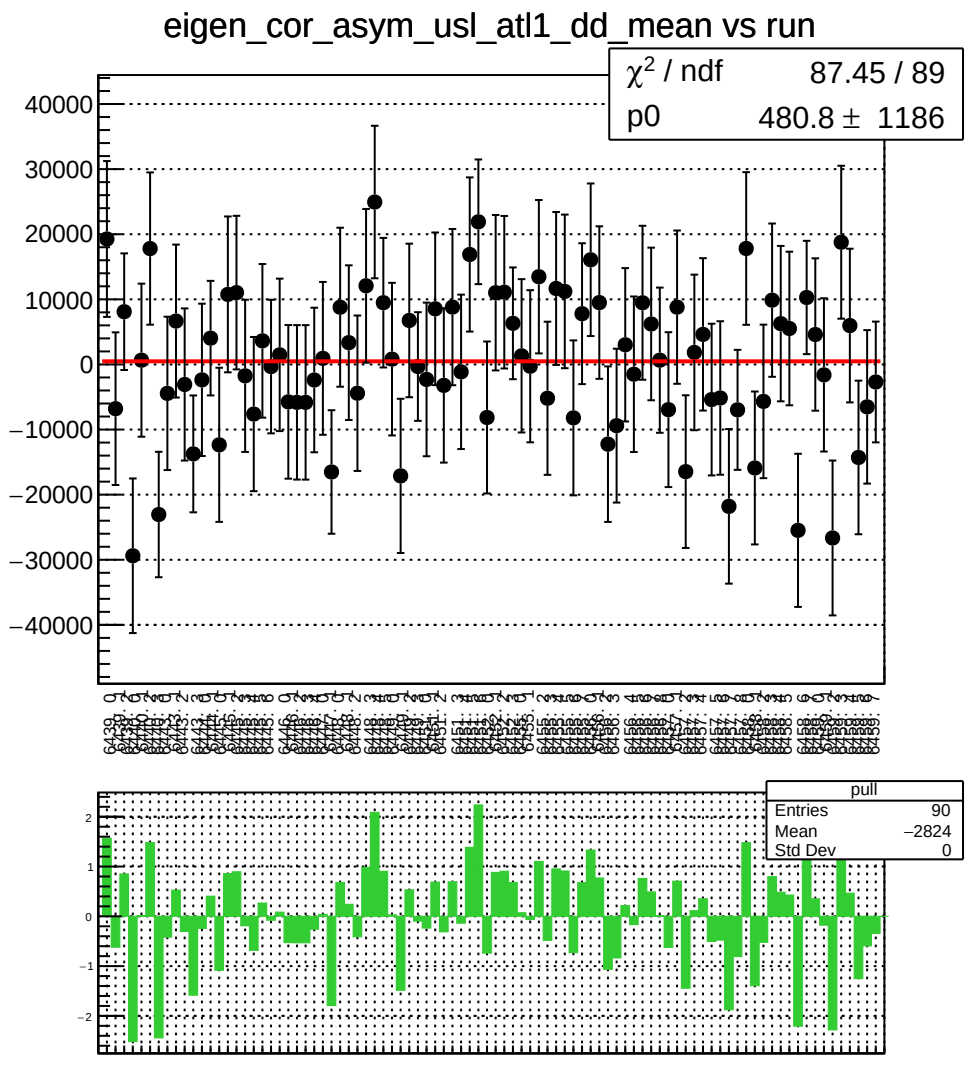

pull1D
Entries 90
Mean 0.0001552
Std Dev 0.9857
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

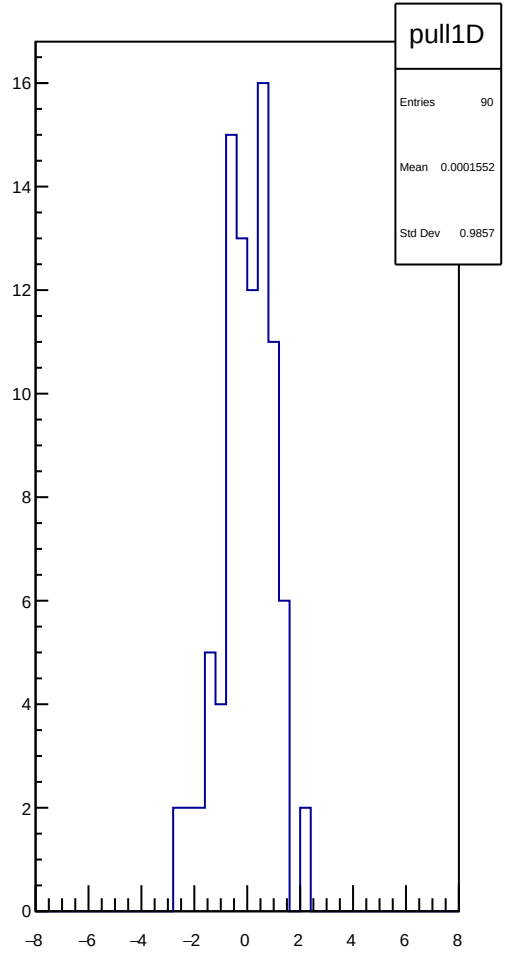

cor_asym_usl_atl1_dd_rms vs run
χ^2 / ndf 100.7 / 89
p0 1120 ± 0.8387
1170
1160
1150
1140
1130
1120
1110
1100

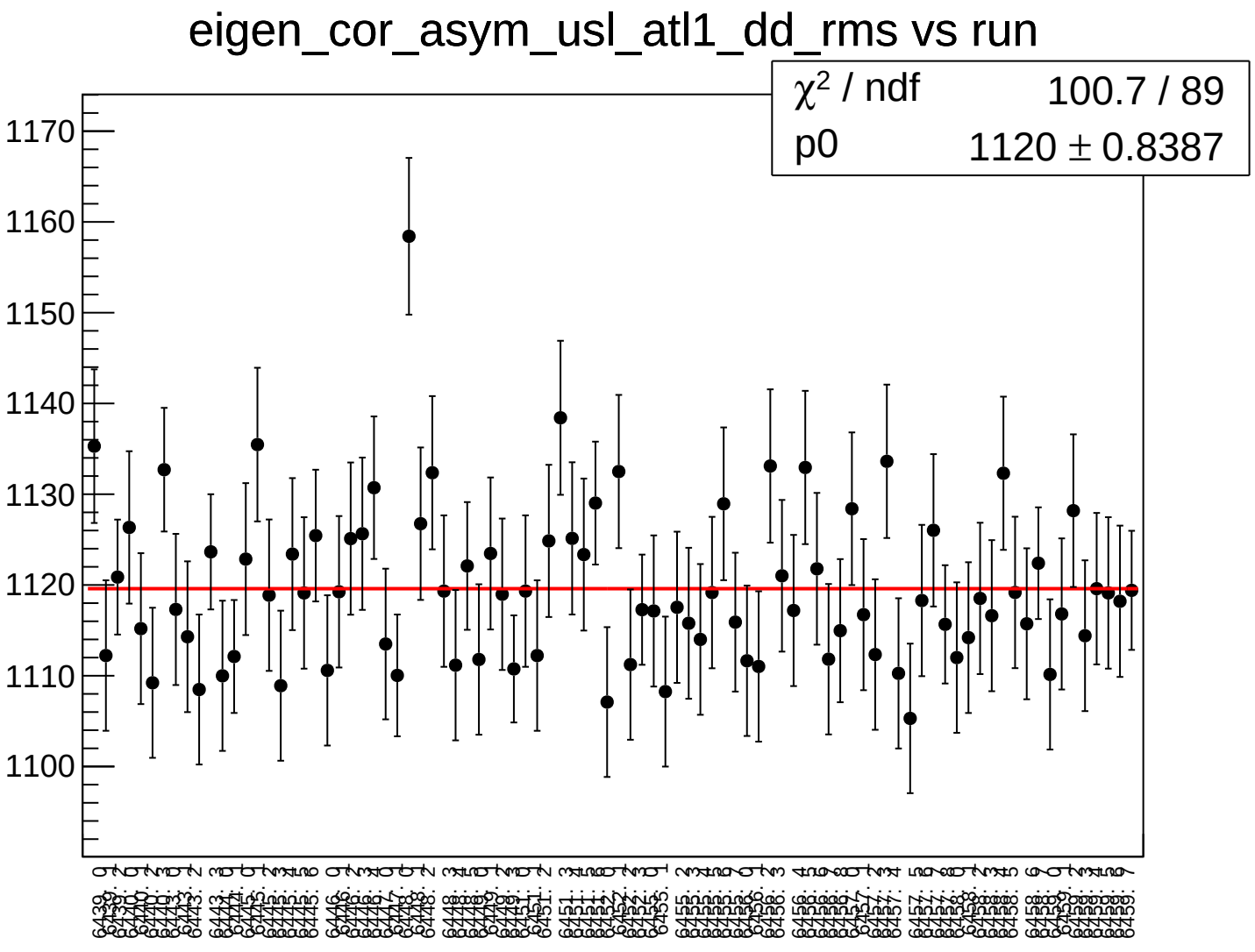

asym_usl_atl1_dd_cor_correction_mean vs run
χ² / ndf 69.67 / 89
p0 −1835 ± 585.4
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 90
Mean −293.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

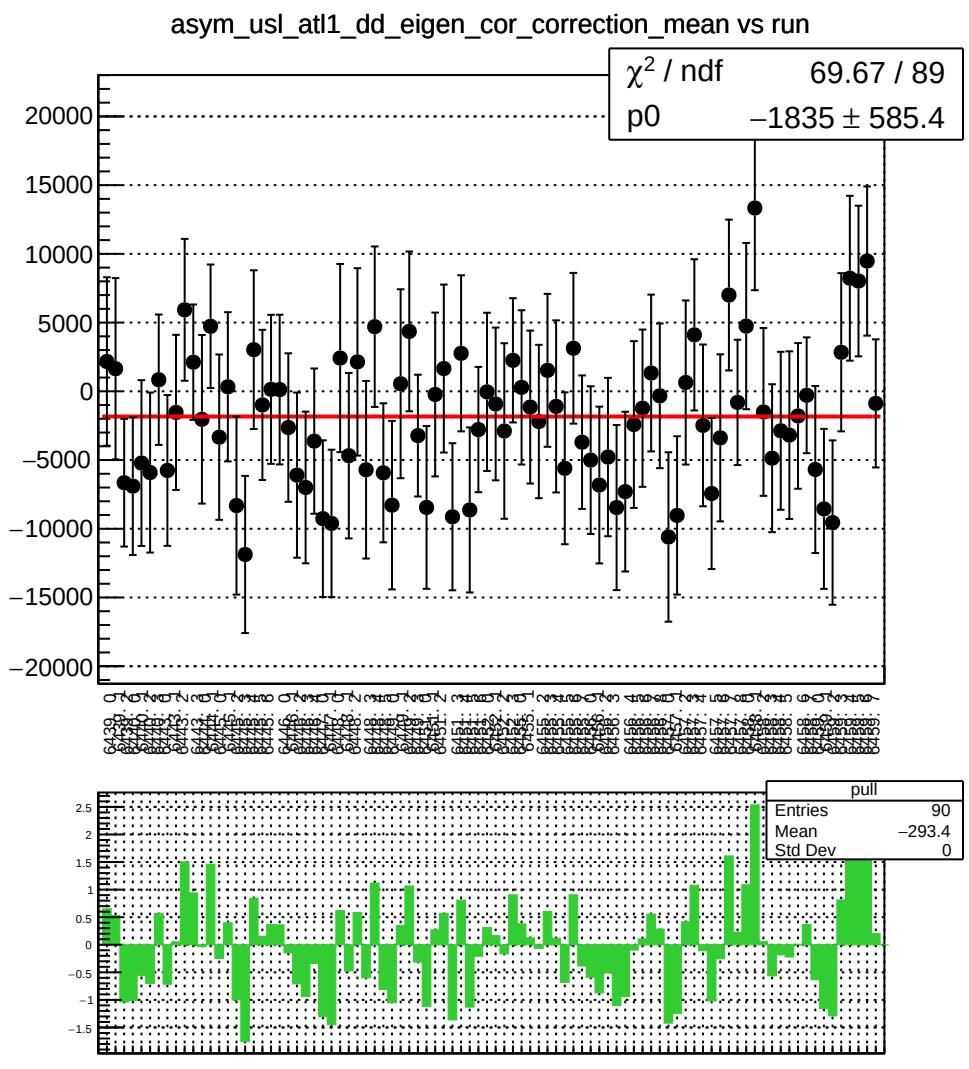

pull1D
Entries 90
Mean −0.009879
Std Dev 0.8798
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

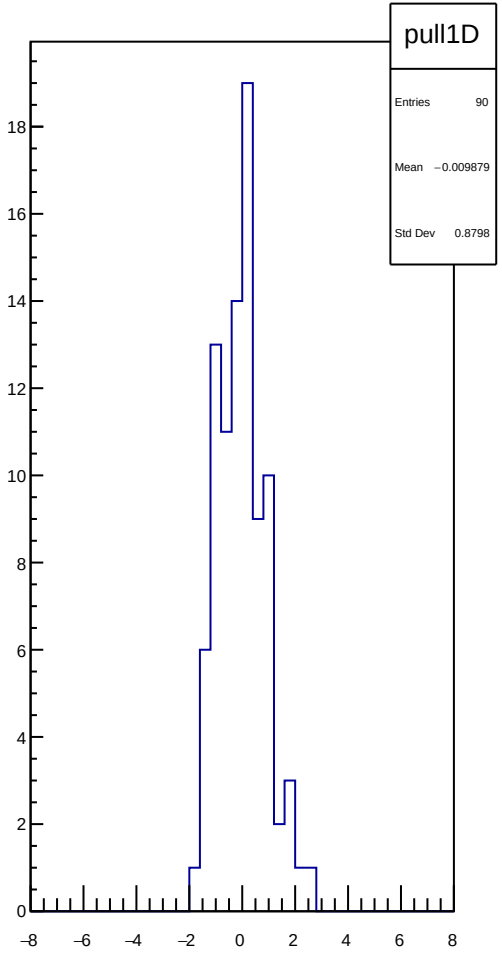

asym_usl_atl1_dd_cor_correction_rms vs run
χ² / ndf 6526 / 89
p0 551.6 ± 0.414
660
640
620
600
580
560
540
520
500
480
460

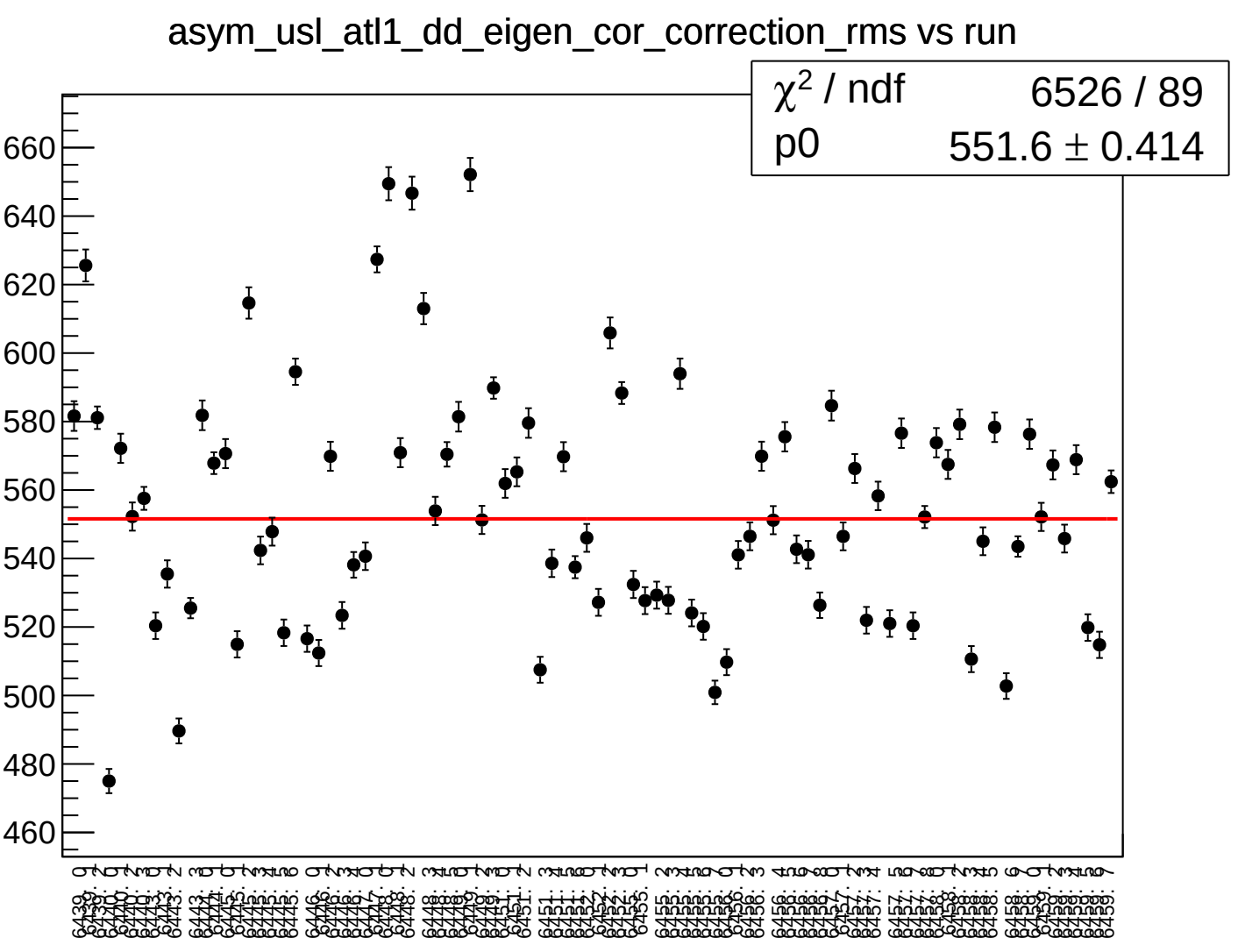

eigen_cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 87.45 / 89
p0 480.8 ± 1186
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 90
Mean −2824
Std Dev 0
2
1
0
−1
−2

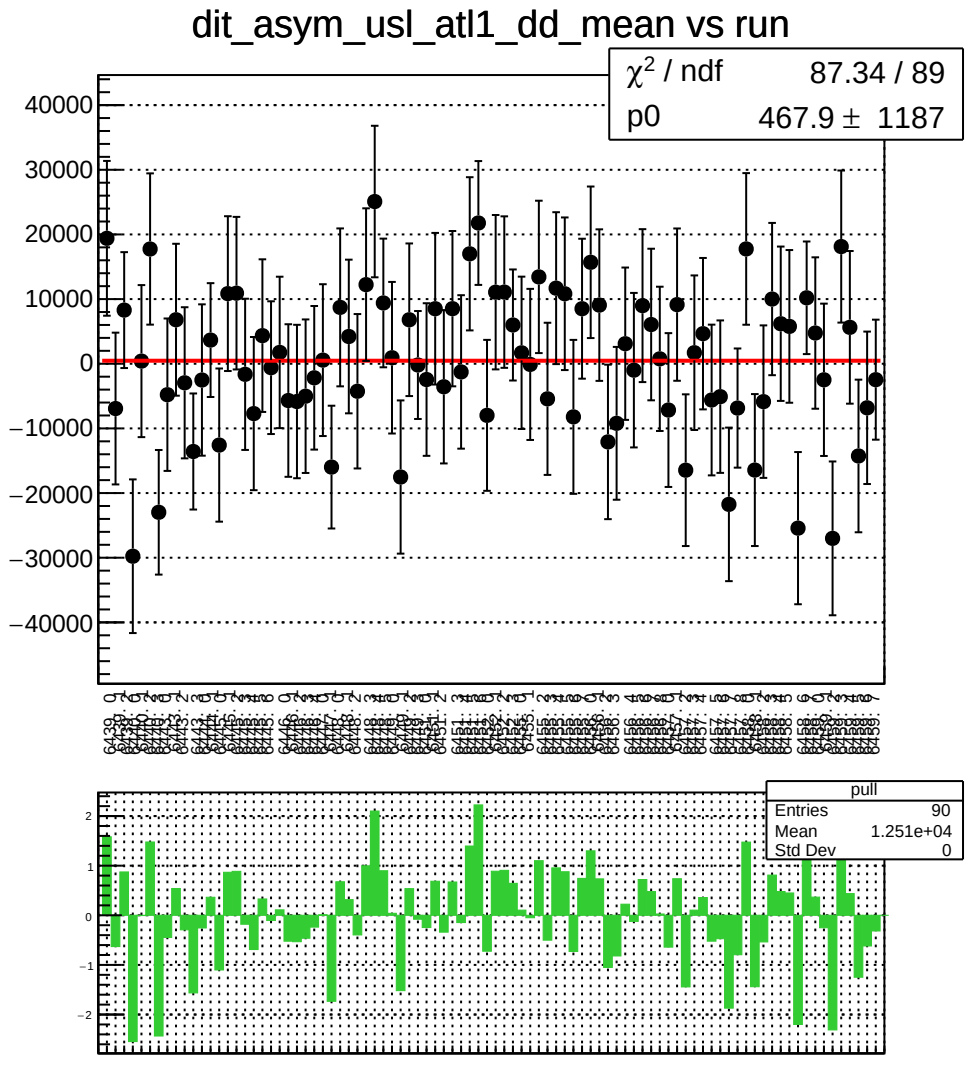

pull1D
Entries 90
Mean 0.0001552
Std Dev 0.9857
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

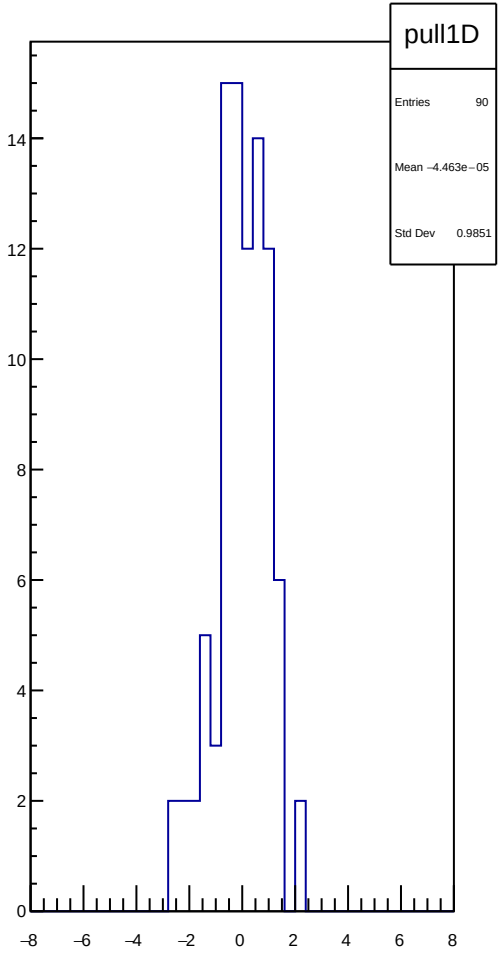

eigen_cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 100.7 / 89
p0 1120 ± 0.8387
1170
1160
1150
1140
1130
1120
1110
1100

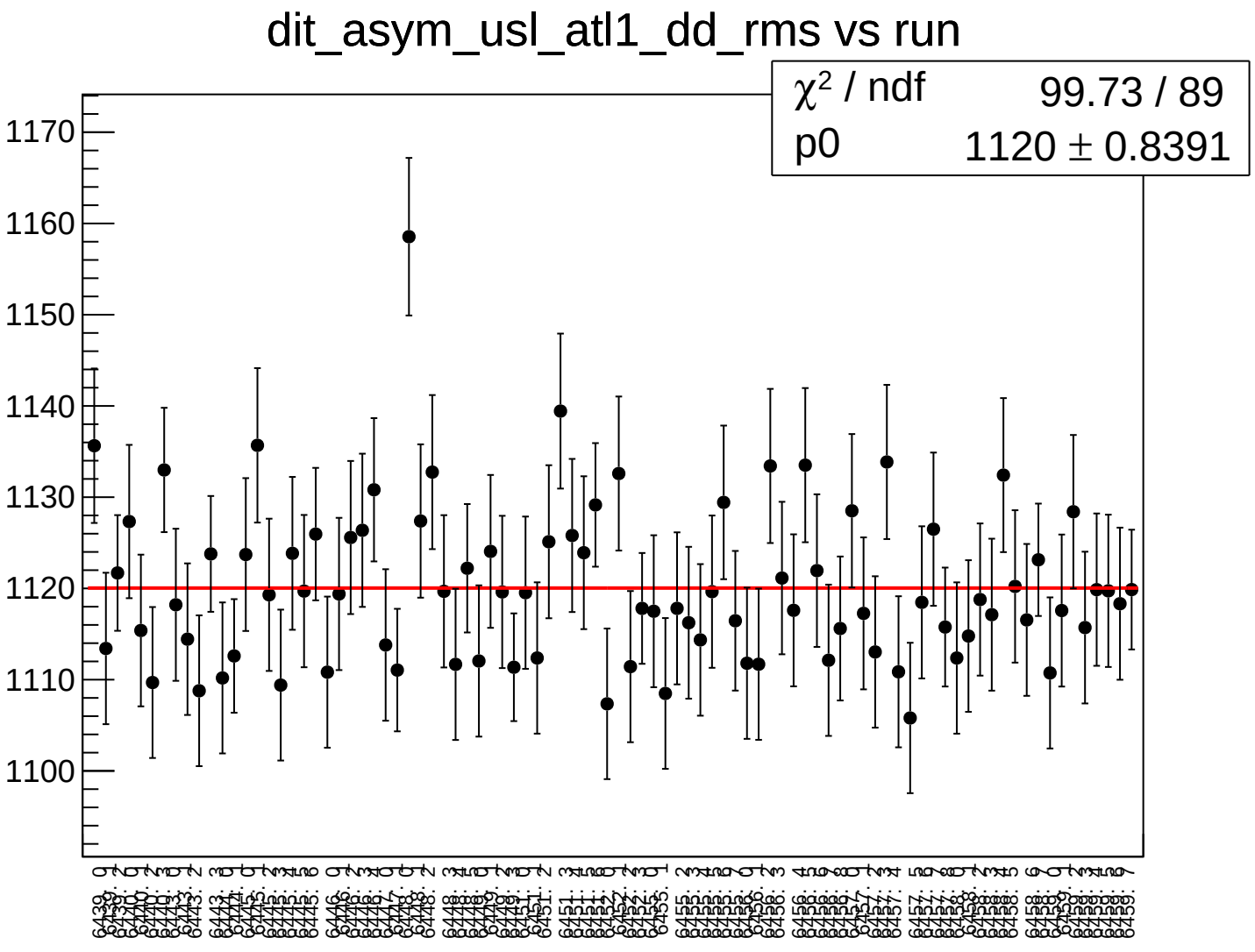

asym_usl_atl1_dd_eigen_cor_correction_mean vs run
χ² / ndf 69.67 / 89
p0 −1835 ± 585.4
pull
Entries 90
Mean −293.4
Std Dev 0

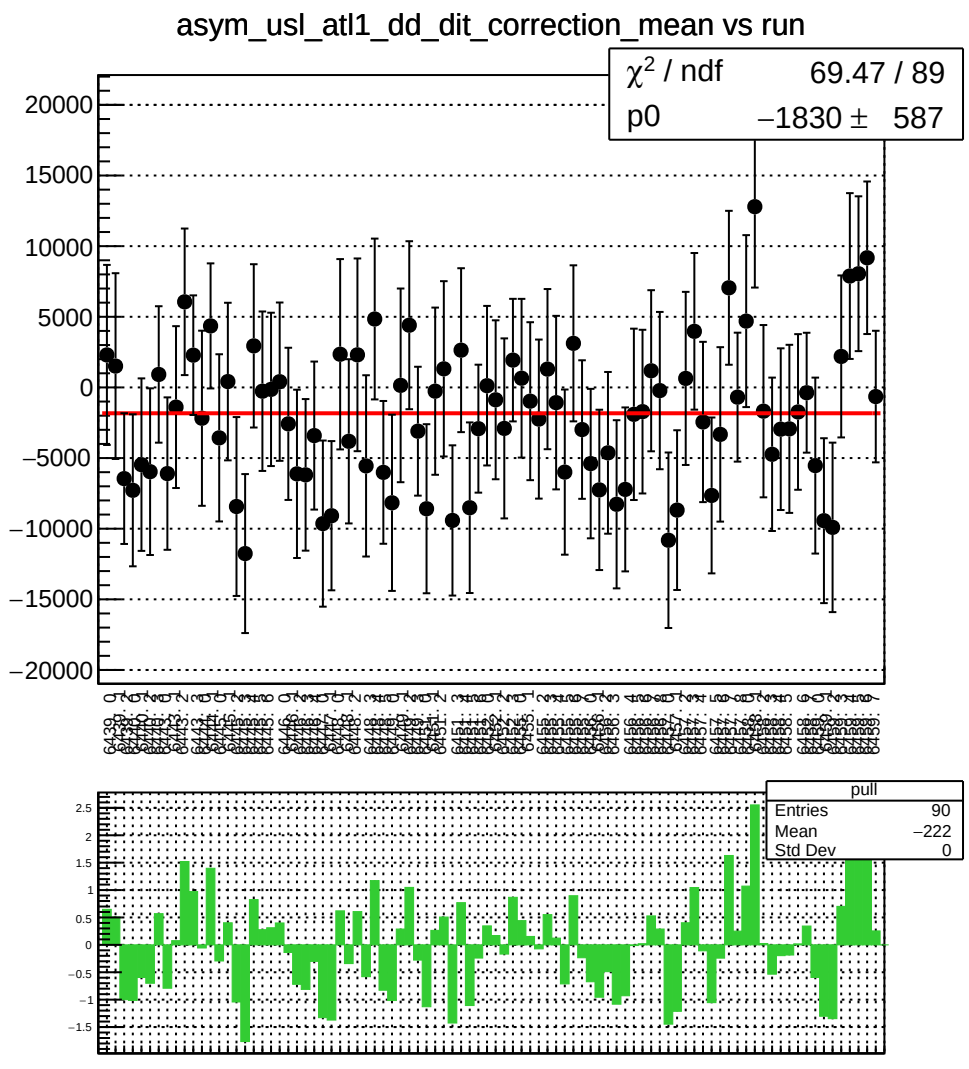

pull1D
Entries 90
Mean −0.009879
Std Dev 0.8798

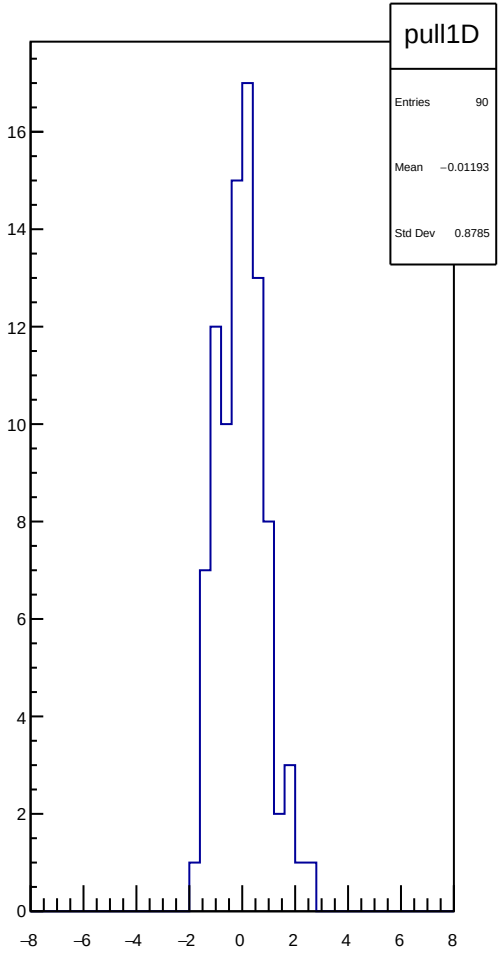

asym_usl_atl1_dd_eigen_cor_correction_rms vs run
χ² / ndf 6526 / 89
p0 551.6 ± 0.414
660
640
620
600
580
560
540
520
500
480
460

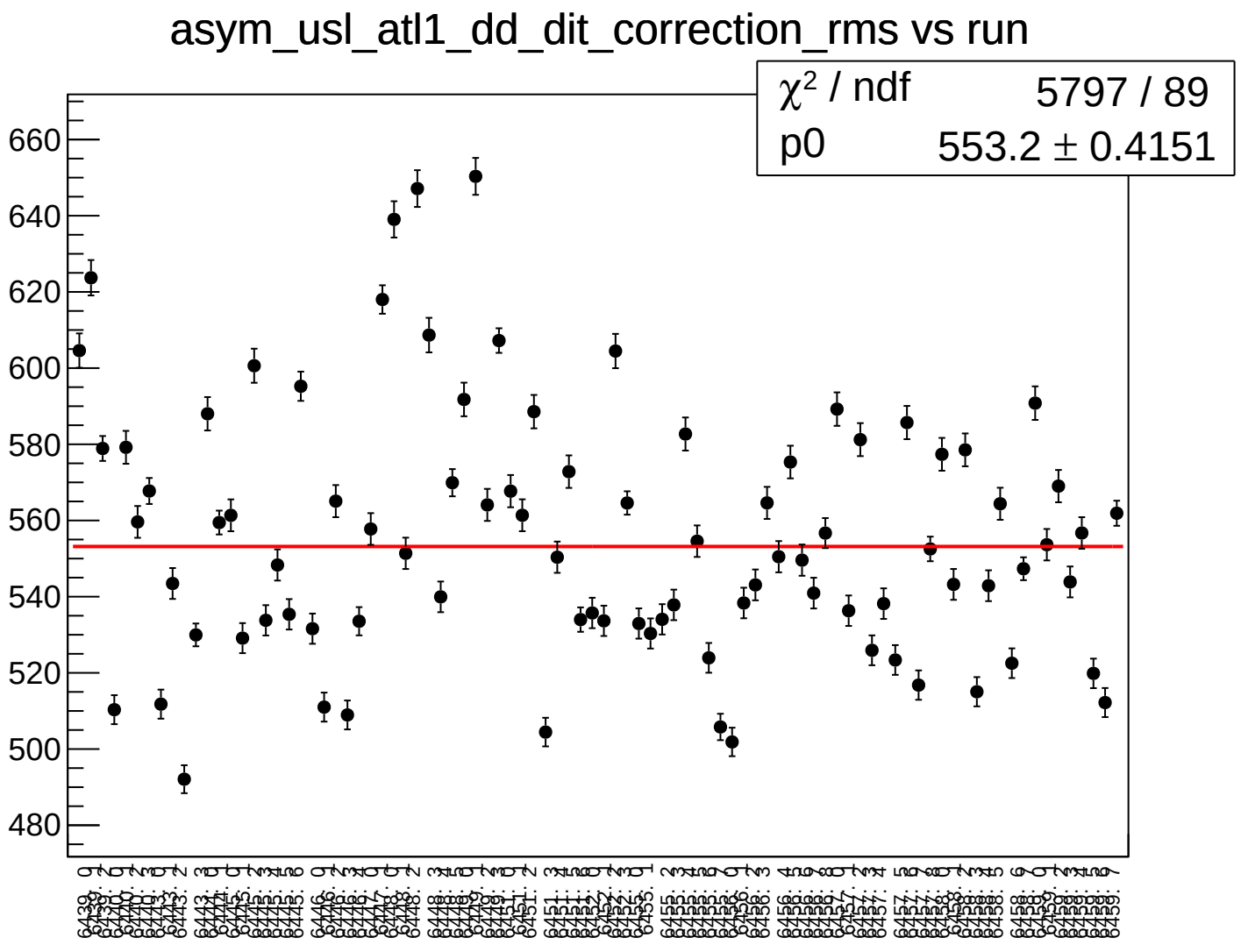

dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 87.34 / 89
p0 467.9 ± 1187
pull
Entries 90
Mean 1.251e+04
Std Dev 0

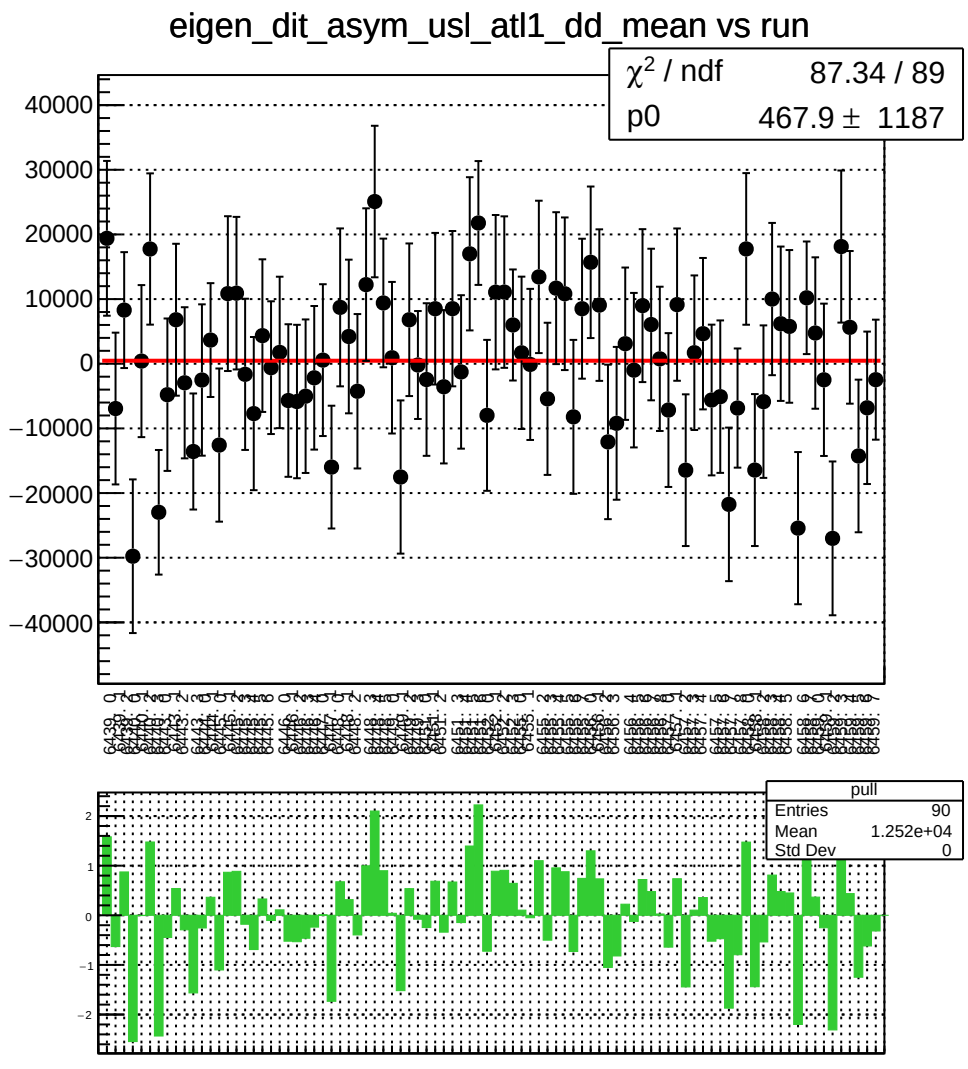

pull1D
Entries 90
Mean −4.463e−05
Std Dev 0.9851

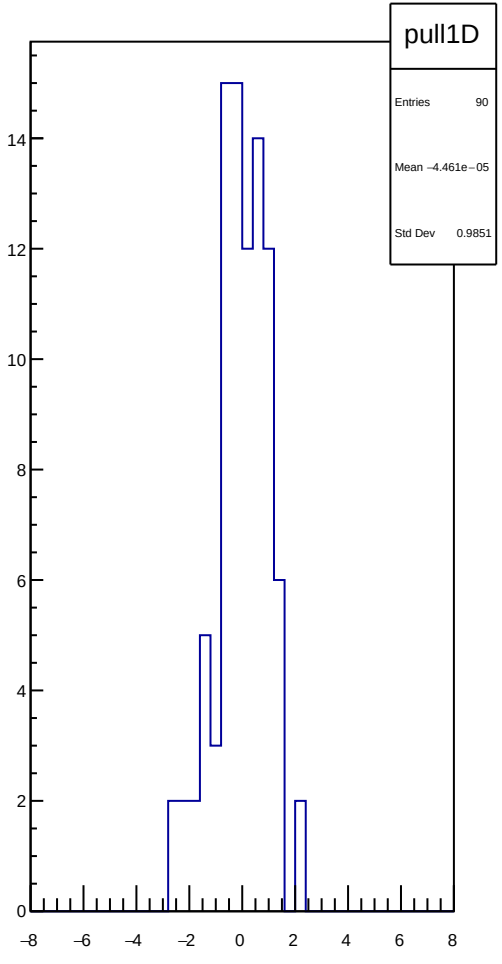

dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 99.73 / 89
p0 1120 ± 0.8391
1170
1160
1150
1140
1130
1120
1110
1100

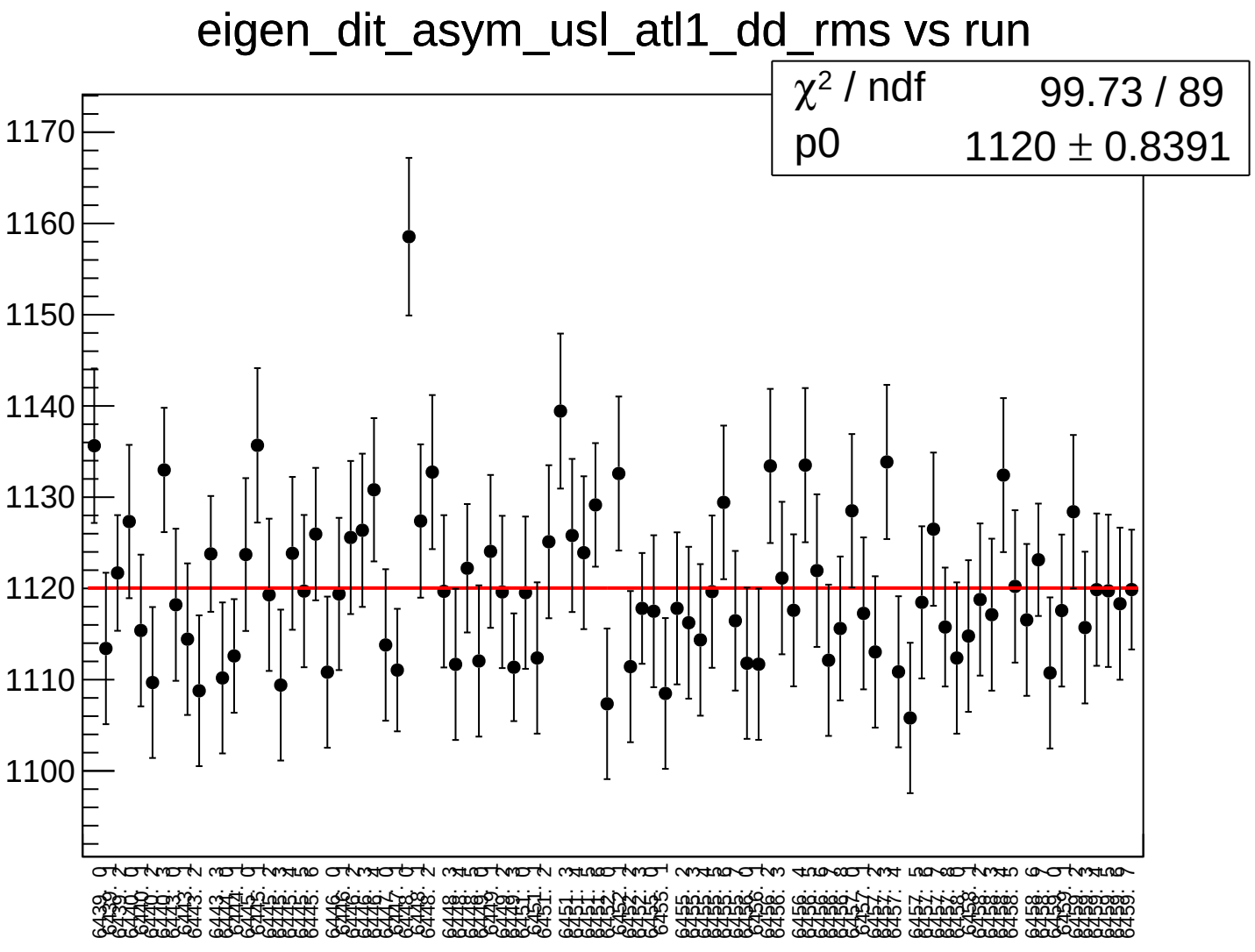

asym_usl_atl1_dd_dit_correction_mean vs run
χ² / ndf 69.47 / 89
p0 −1830 ± 587
pull
Entries 90
Mean −222
Std Dev 0

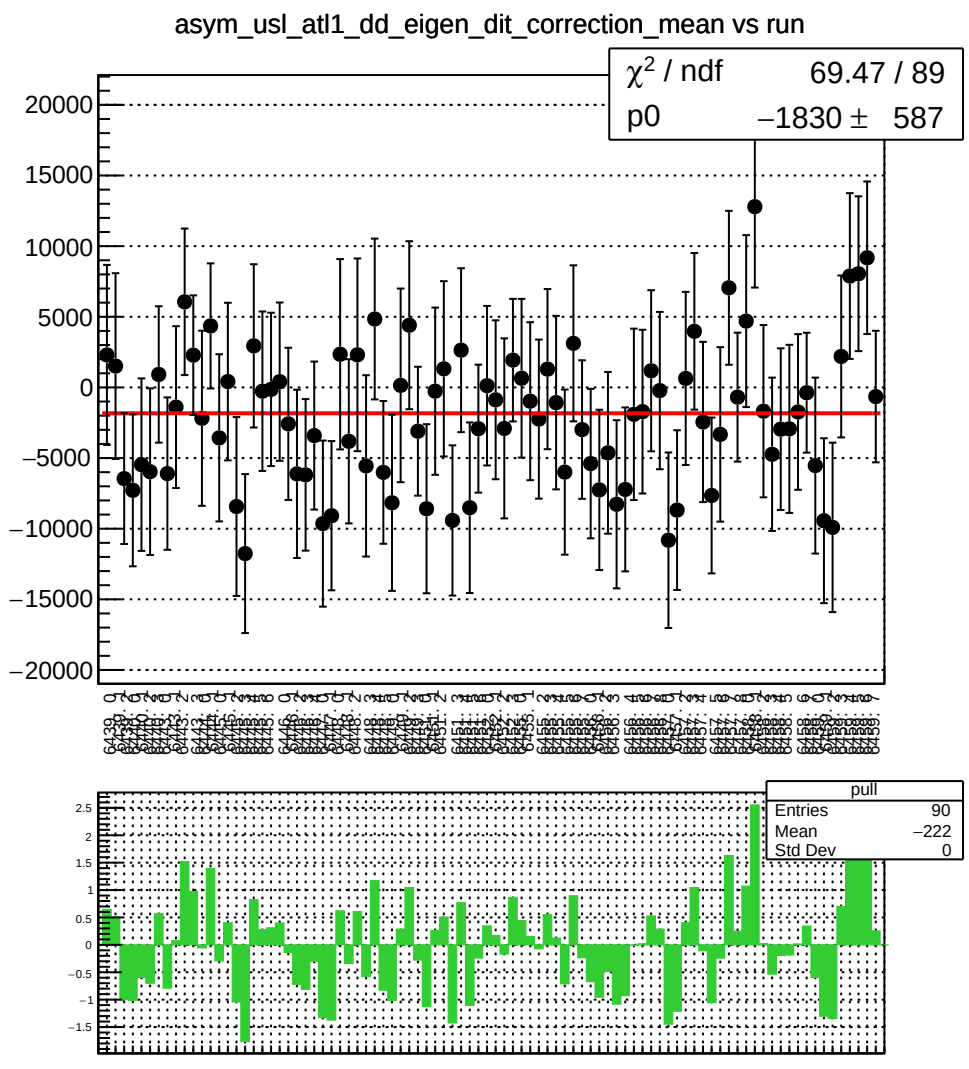

pull1D
Entries 90
Mean −0.01193
Std Dev 0.8785

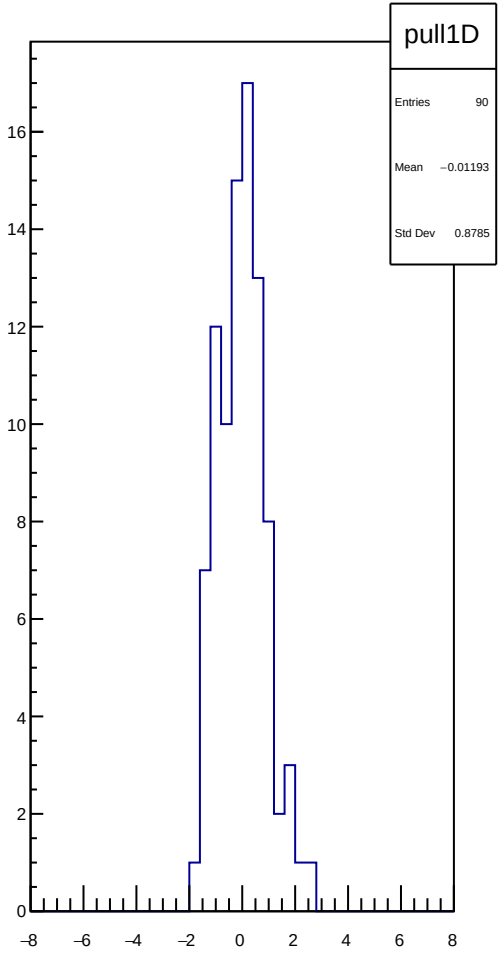

asym_usl_atl1_dd_dit_correction_rms vs run
χ² / ndf 5797 / 89
p0 553.2 ± 0.4151
660
640
620
600
580
560
540
520
500
480

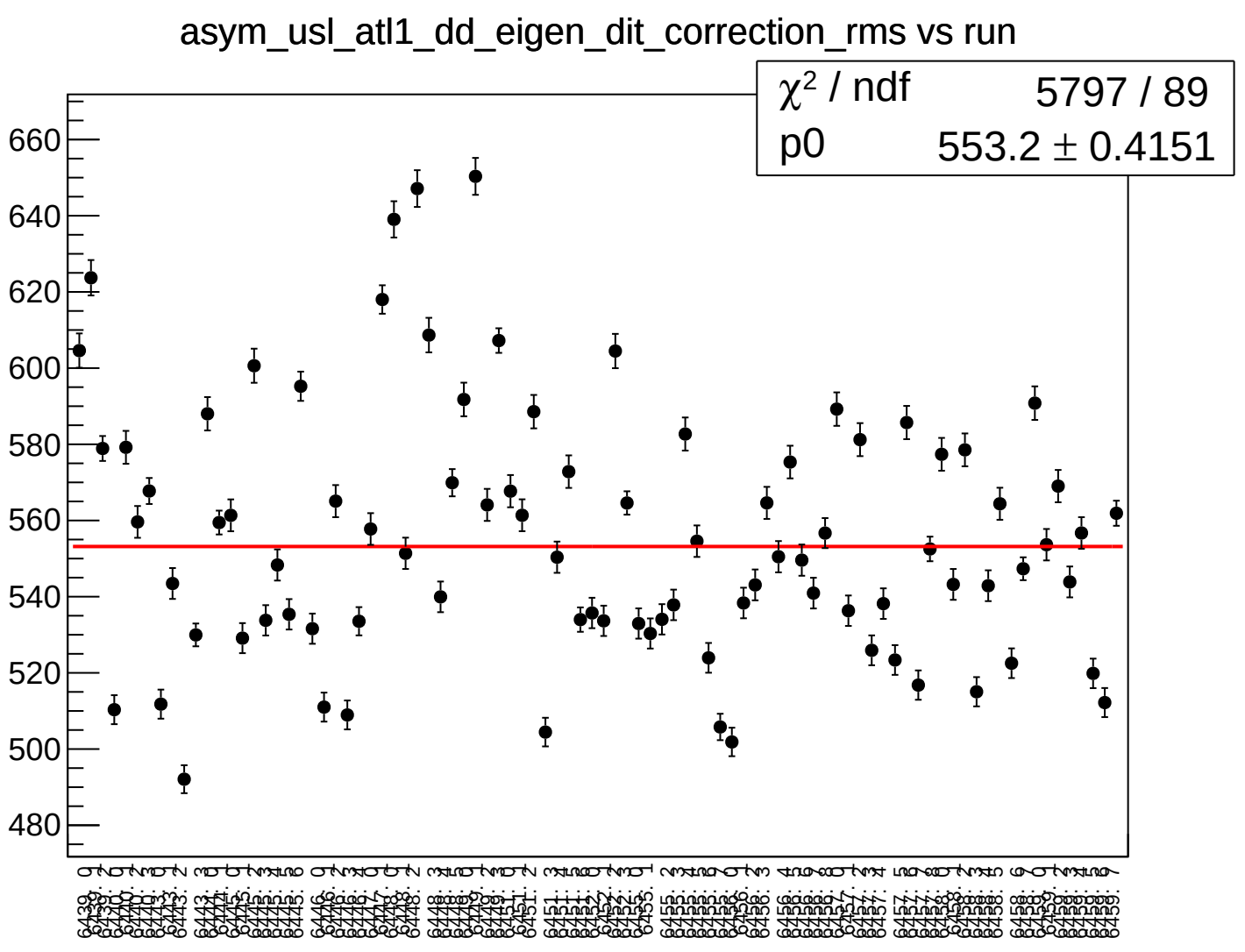

eigen_dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 87.34 / 89
p0 467.9 ± 1187
pull
Entries 90
Mean 1.252e+04
Std Dev 0

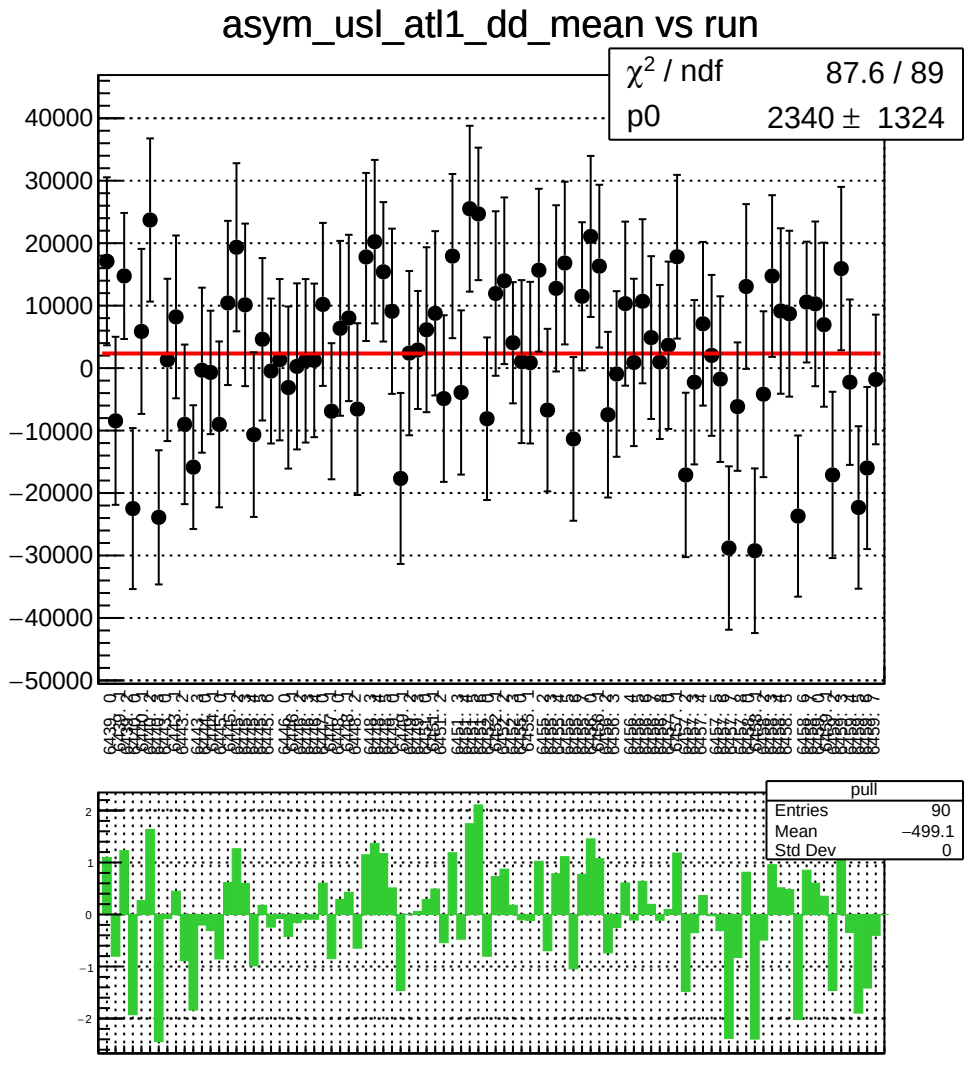

pull1D
Entries 90
Mean −4.461e−05
Std Dev 0.9851

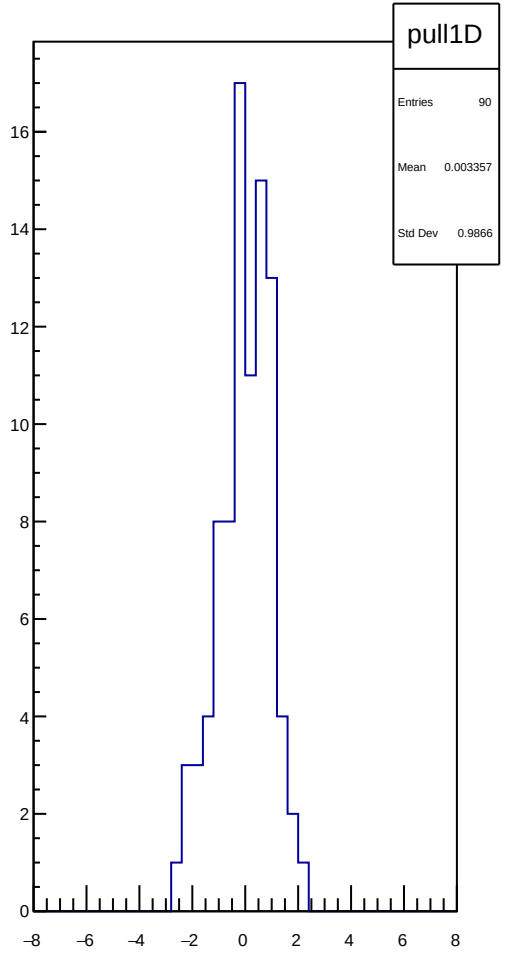

eigen_dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 99.73 / 89
p0 1120 ± 0.8391
1170
1160
1150
1140
1130
1120
1110
1100

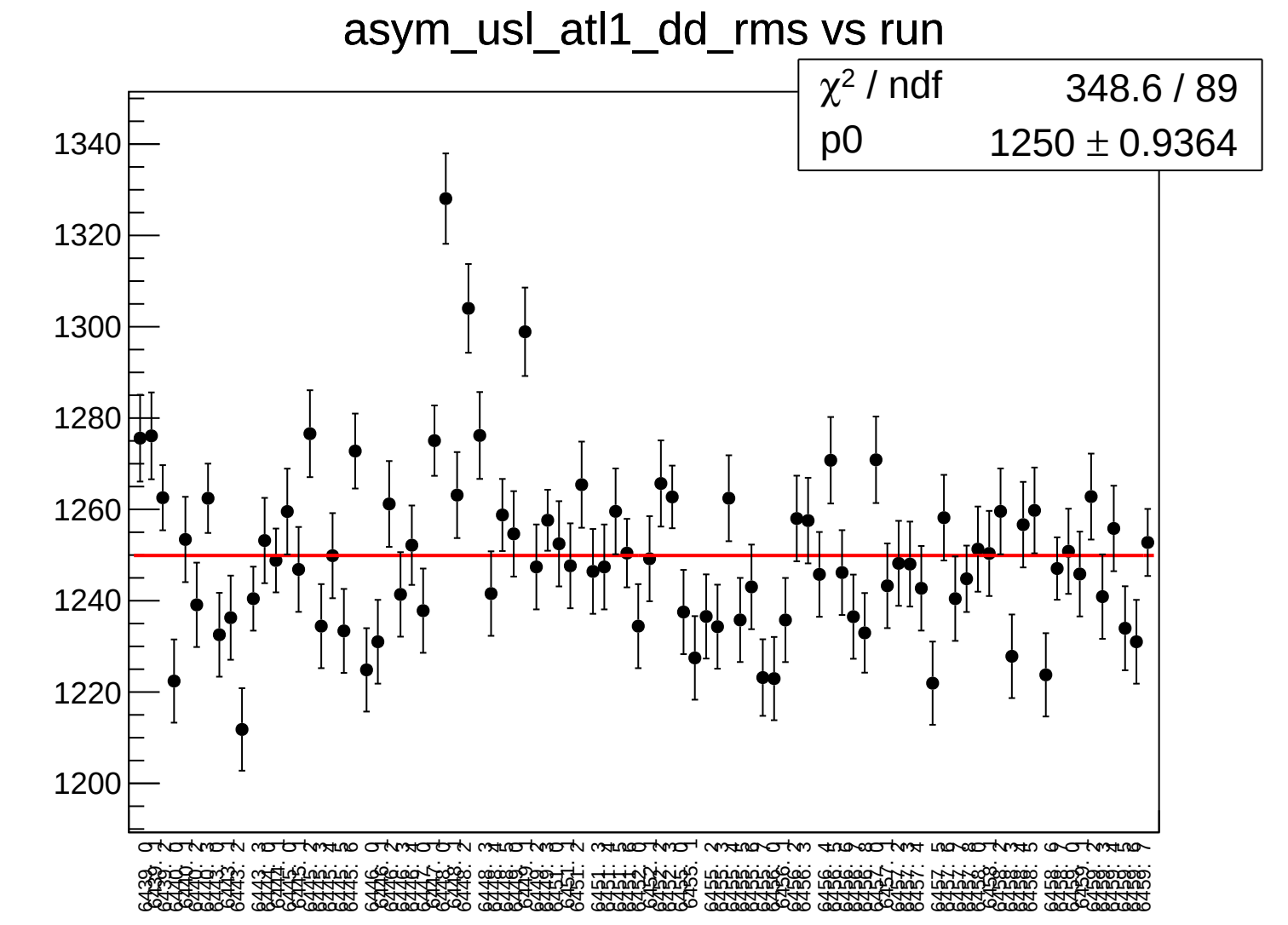

asym_usl_atl1_dd_eigen_dit_correction_mean vs run
χ² / ndf 69.47 / 89
p0 −1830 ± 587
pull
Entries 90
Mean −222
Std Dev 0

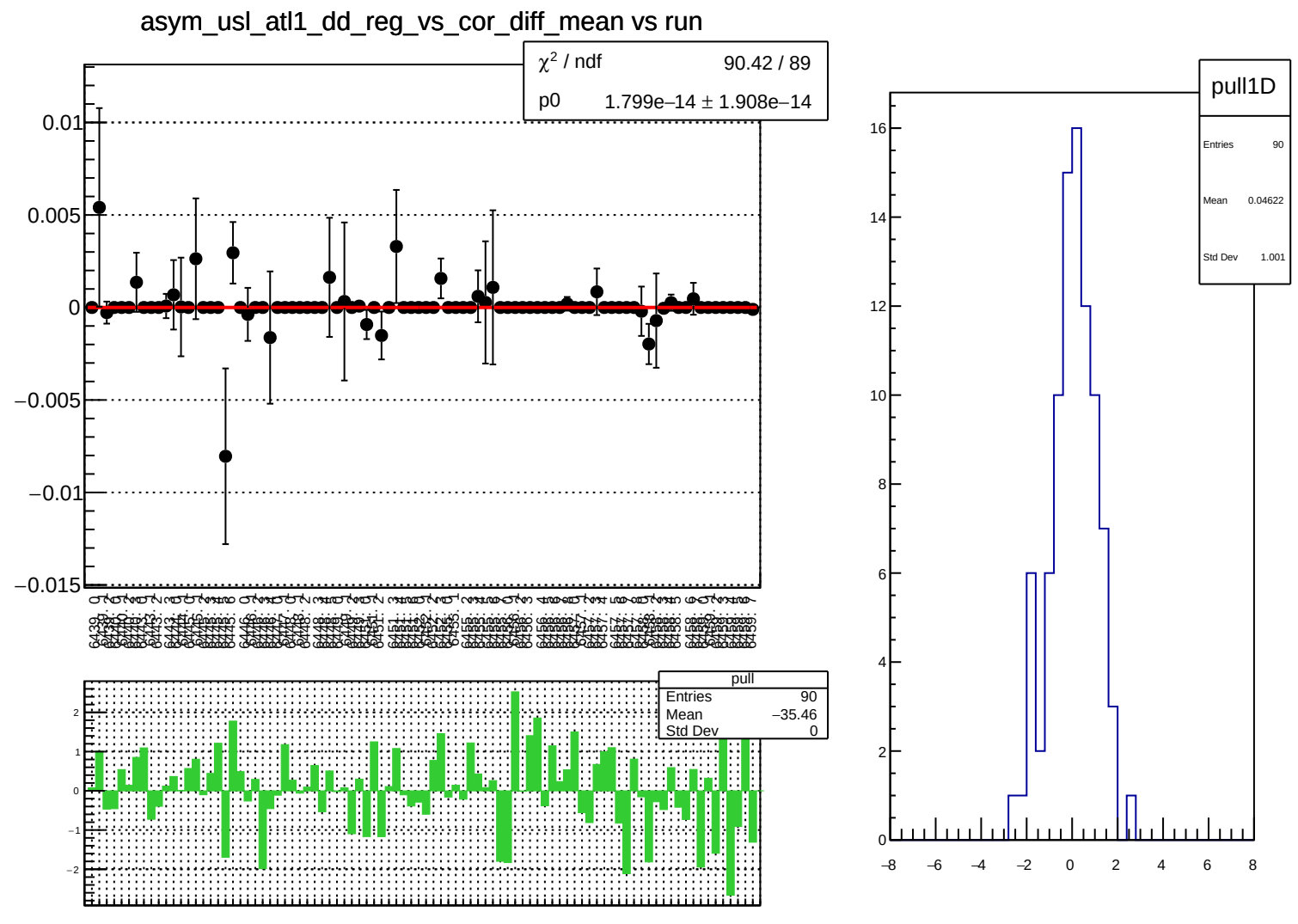

pull1D
Entries 90
Mean −0.01193
Std Dev 0.8785

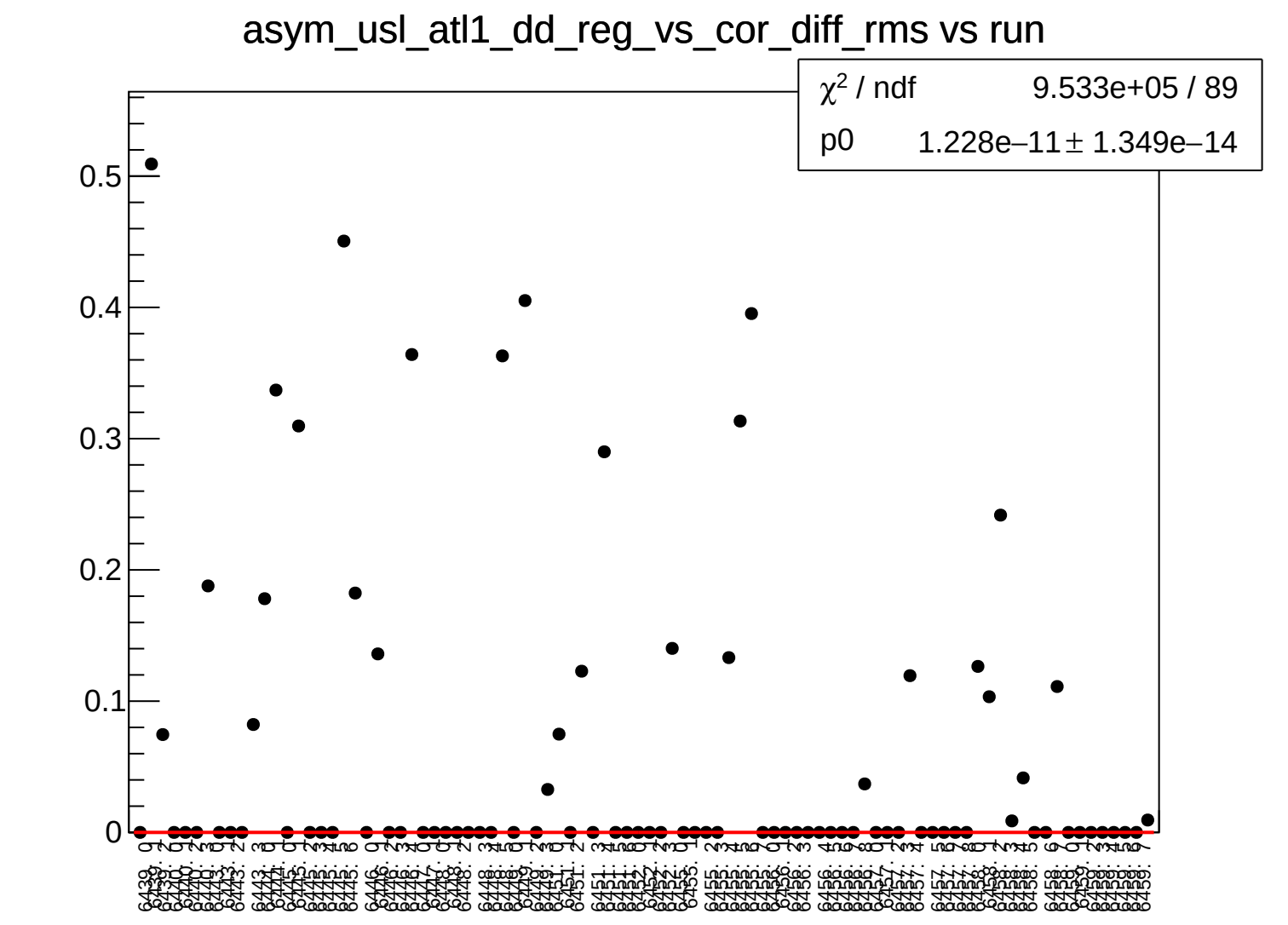

asym_usl_atl1_dd_eigen_dit_correction_rms vs run
χ² / ndf 5797 / 89
p0 553.2 ± 0.4151
660
640
620
600
580
560
540
520
500
480

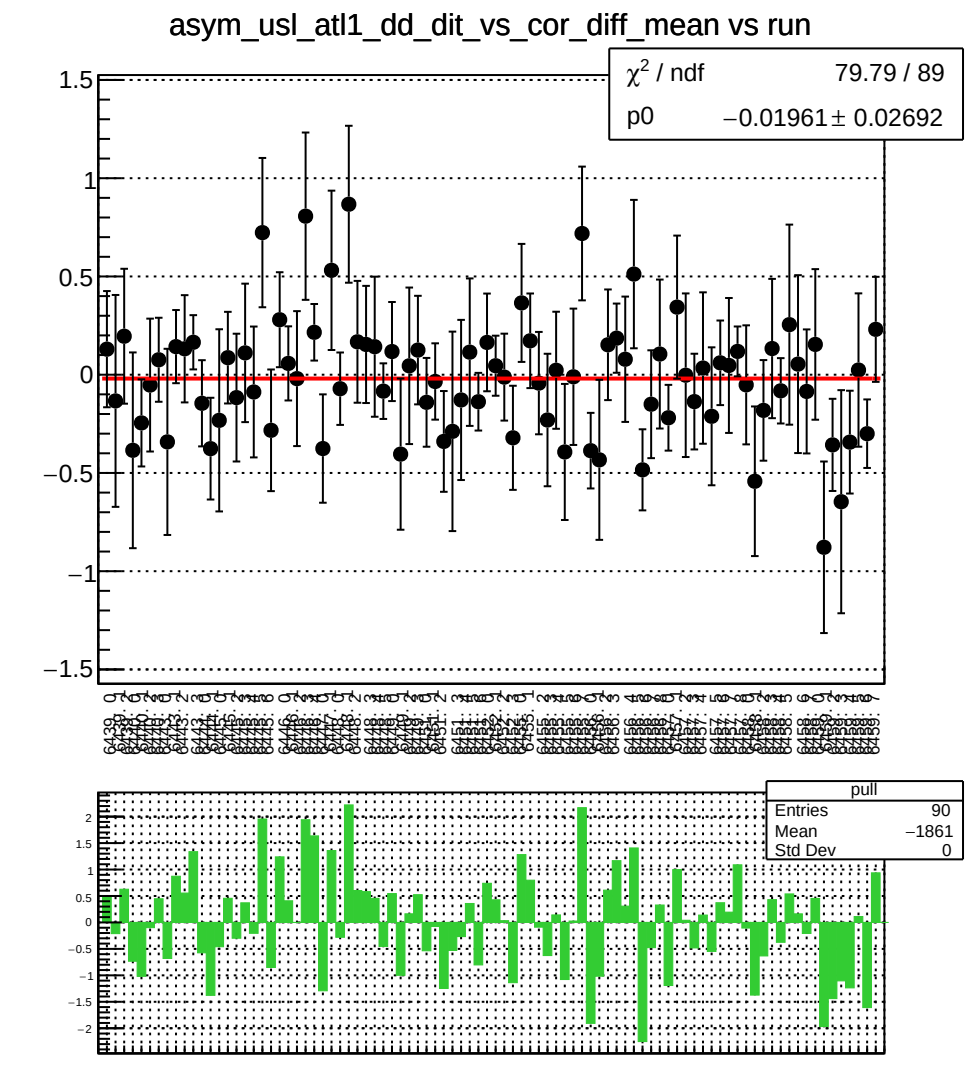

asym_usl_atl1_dd_mean vs run
χ² / ndf 87.6 / 89
p0 2340 ± 1324
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
pull
Entries 90
Mean −499.1
Std Dev 0
2
1
0
−1
−2

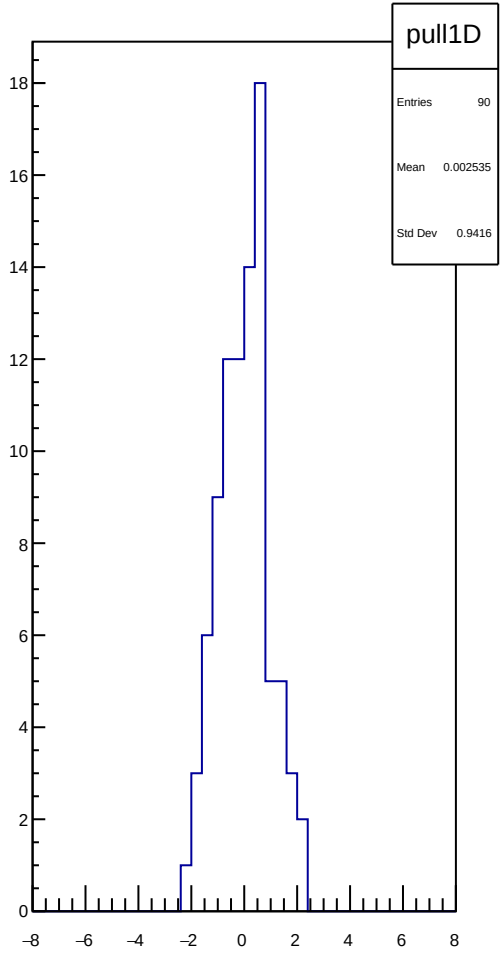

pull1D
Entries 90
Mean 0.003357
Std Dev 0.9866
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

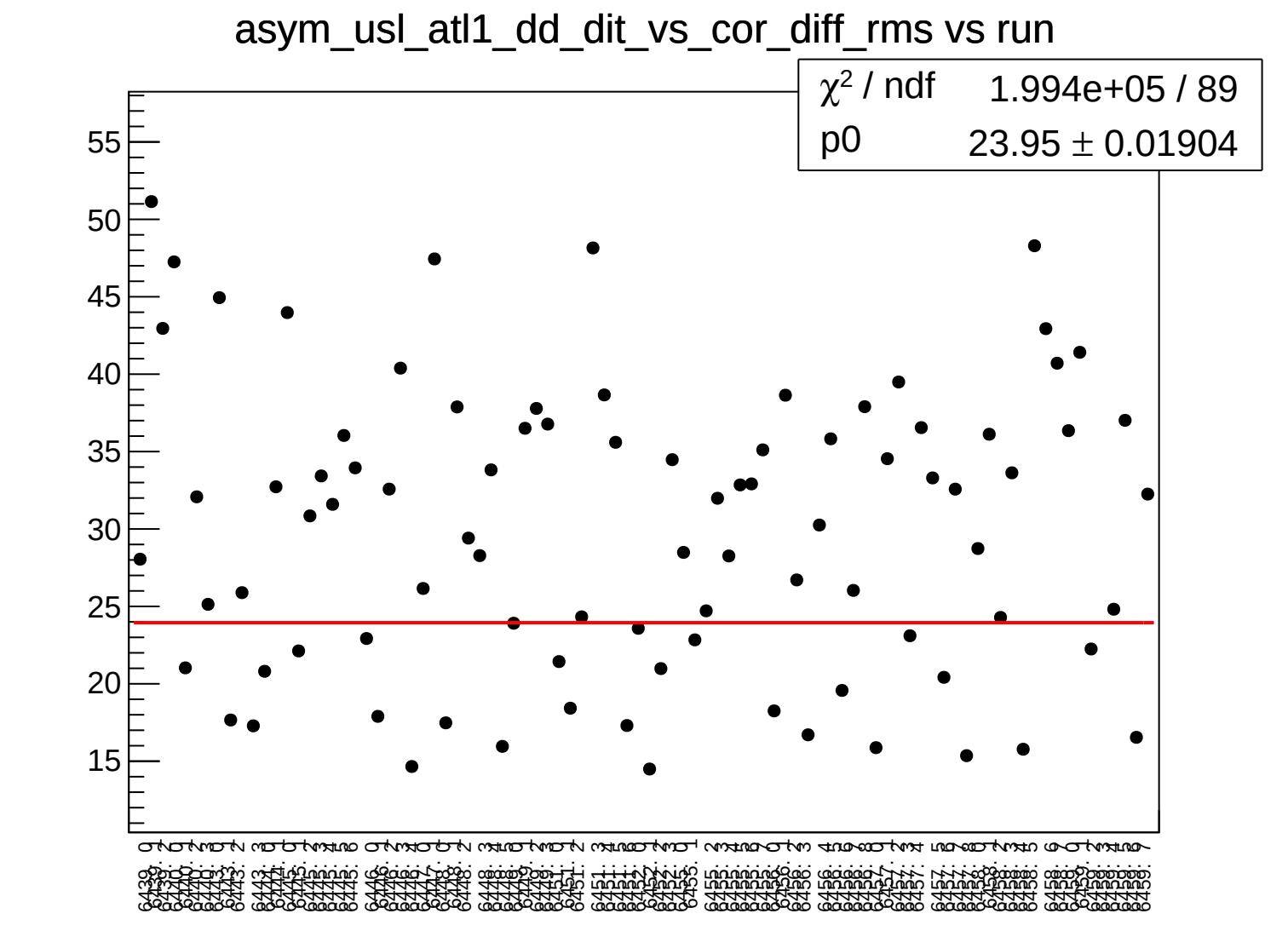

asym_usl_atl1_dd_rms vs run
χ² / ndf 348.6 / 89
p0 1250 ± 0.9364
1340
1320
1300
1280
1260
1240
1220
1200

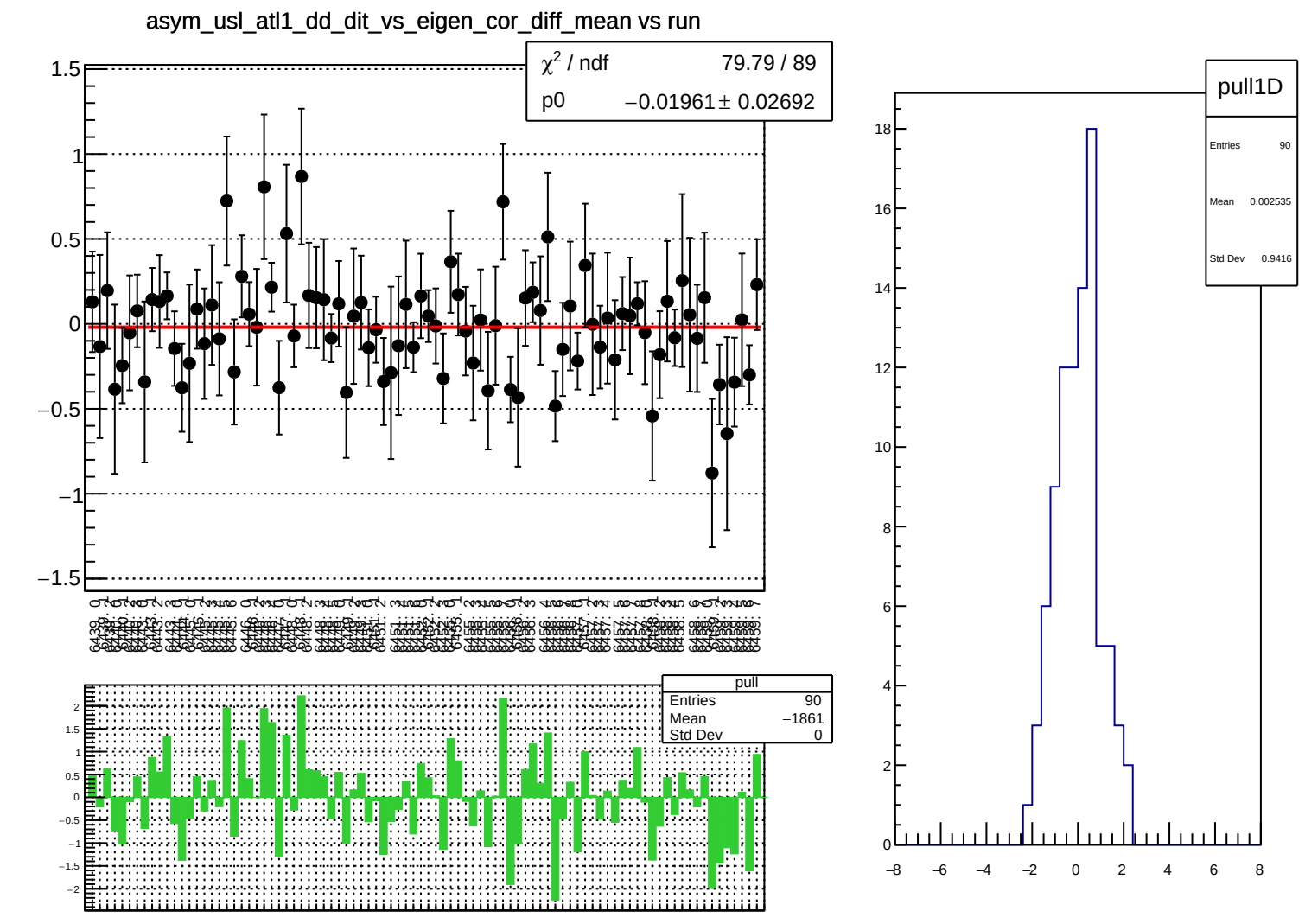

asym_usl_atl1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 90.42 / 89
p0 1.799e−14 ± 1.908e−14
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 90
Mean −35.46
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 90
Mean 0.04622
Std Dev 1.001
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

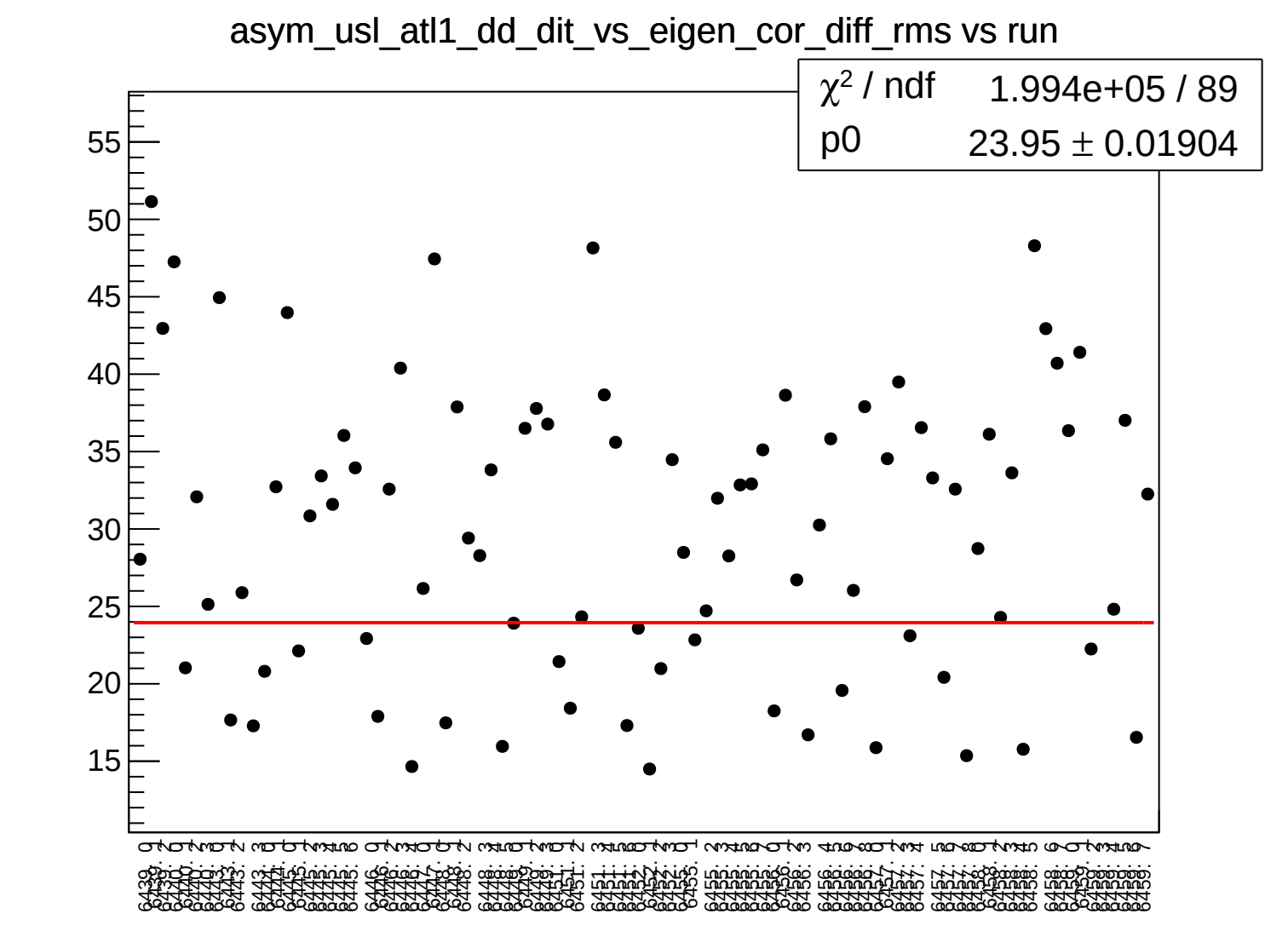

asym_usl_atl1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.533e+05 / 89
p0 1.228e−11 ± 1.349e−14
0.5
0.4
0.3
0.2
0.1
0

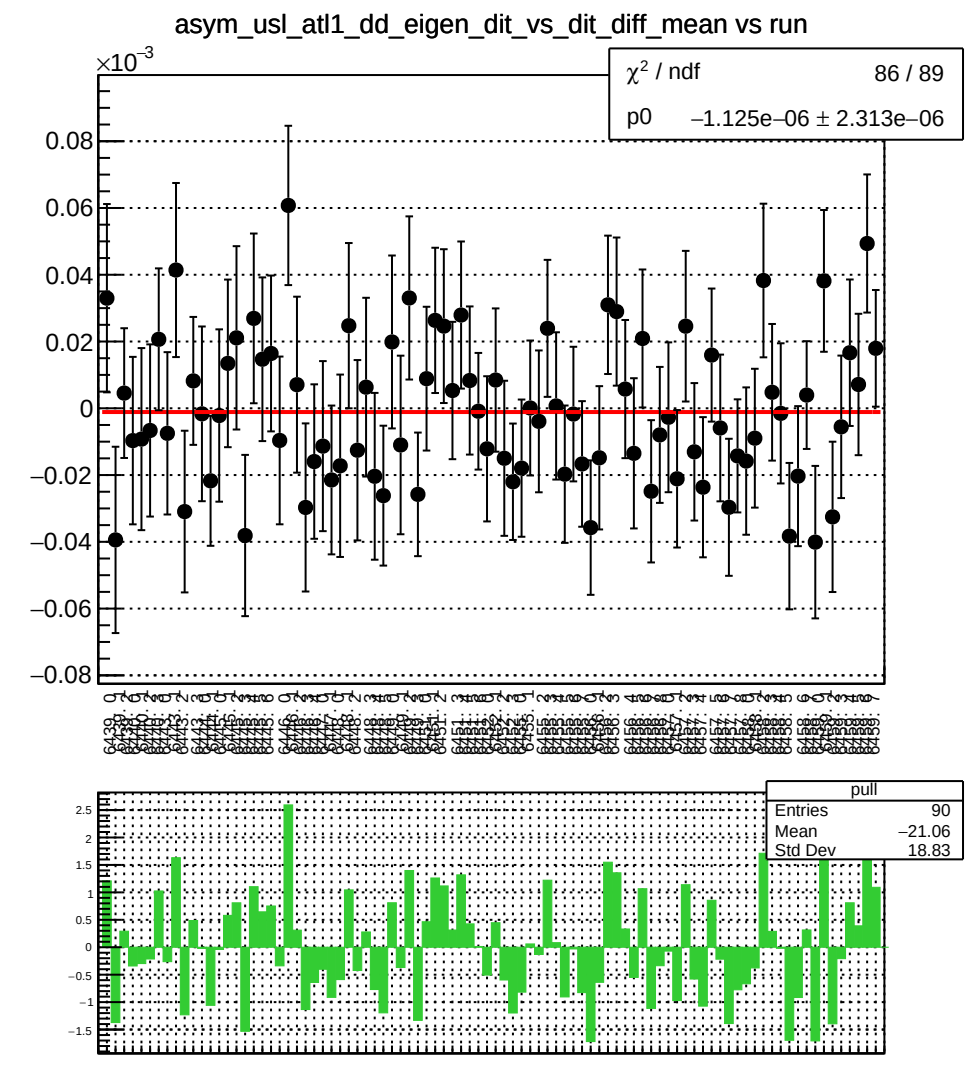

asym_usl_atl1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 79.79 / 89
p0 −0.01961 ± 0.02692
pull
Entries 90
Mean −1861
Std Dev 0

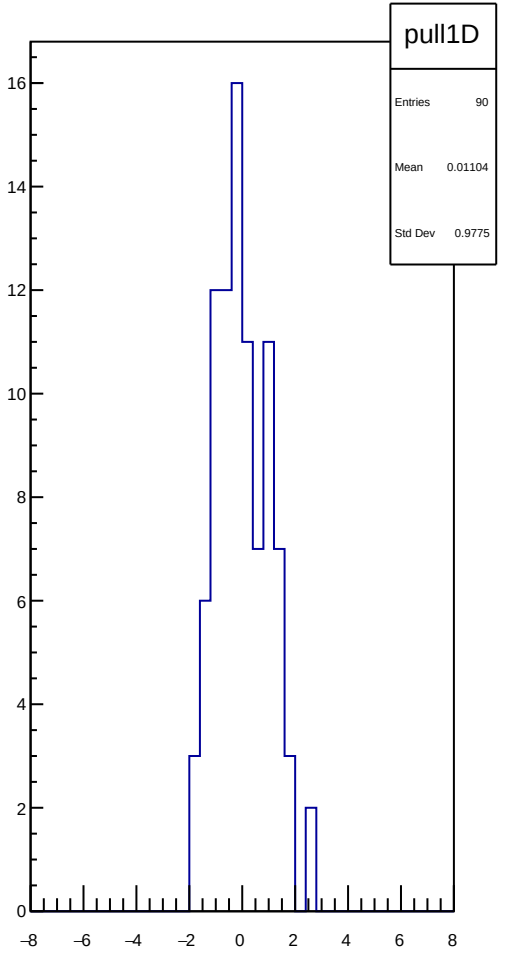

pull1D
Entries 90
Mean 0.002535
Std Dev 0.9416

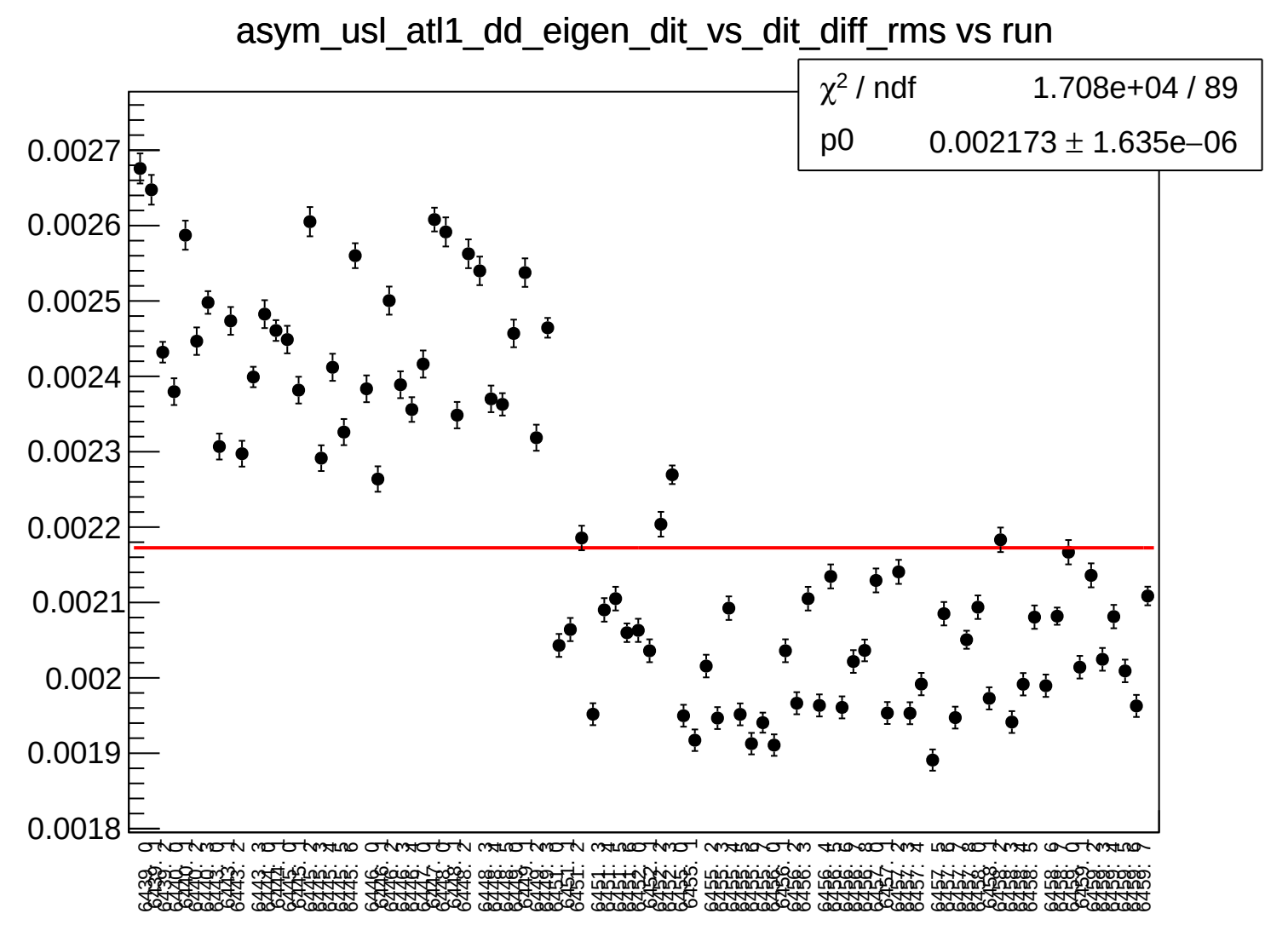

asym_usl_atl1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.994e+05 / 89
p0 23.95 ± 0.01904
55
50
45
40
35
30
25
20
15

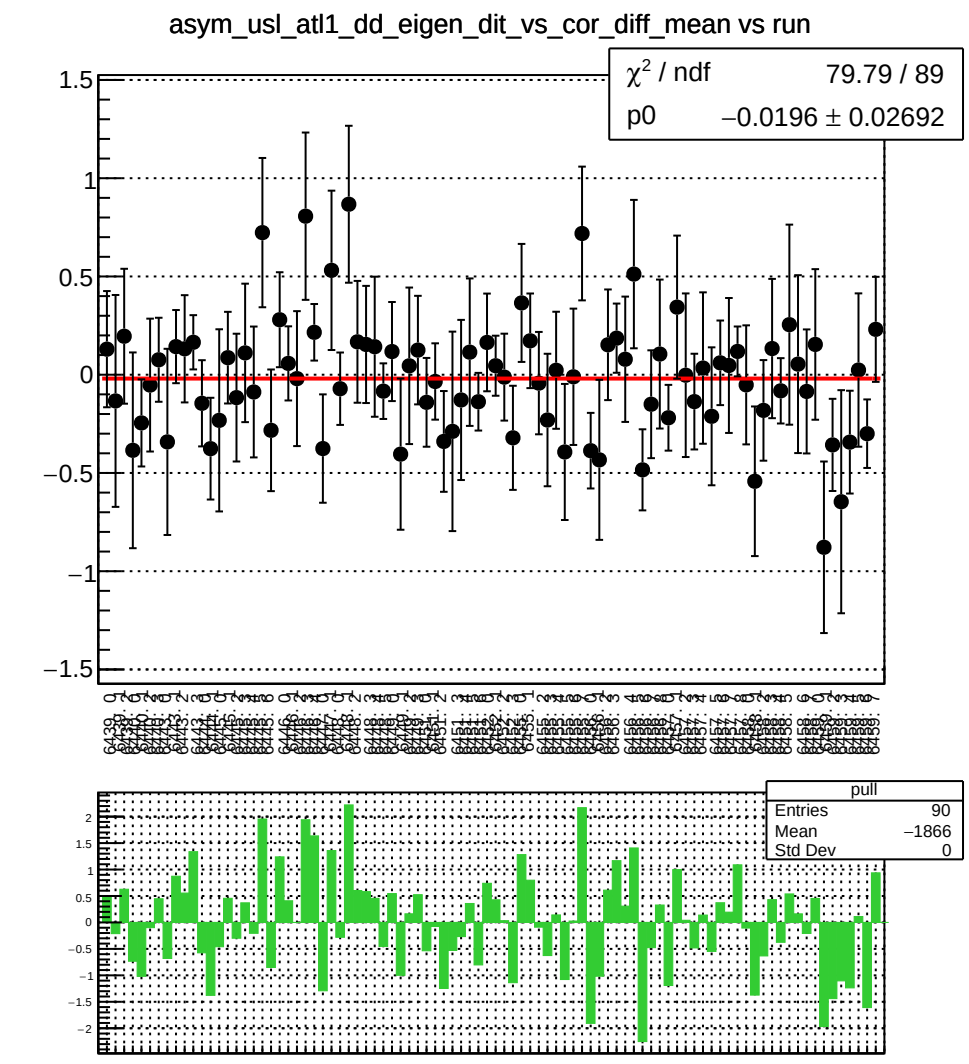

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.79 / 89
p0 −0.01961 ± 0.02692
pull
Entries 90
Mean −1861
Std Dev 0
pull1D
Entries 90
Mean 0.002535
Std Dev 0.9416

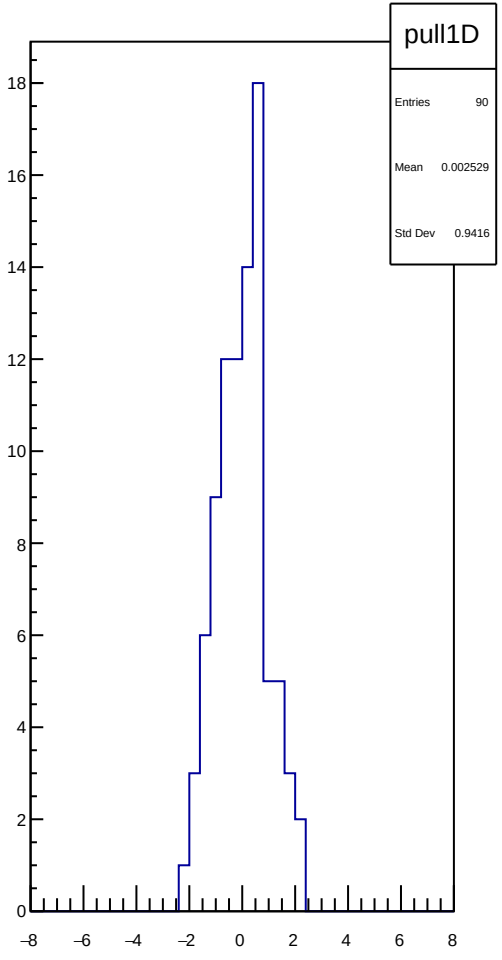

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.994e+05 / 89
p0 23.95 ± 0.01904
55
50
45
40
35
30
25
20
15

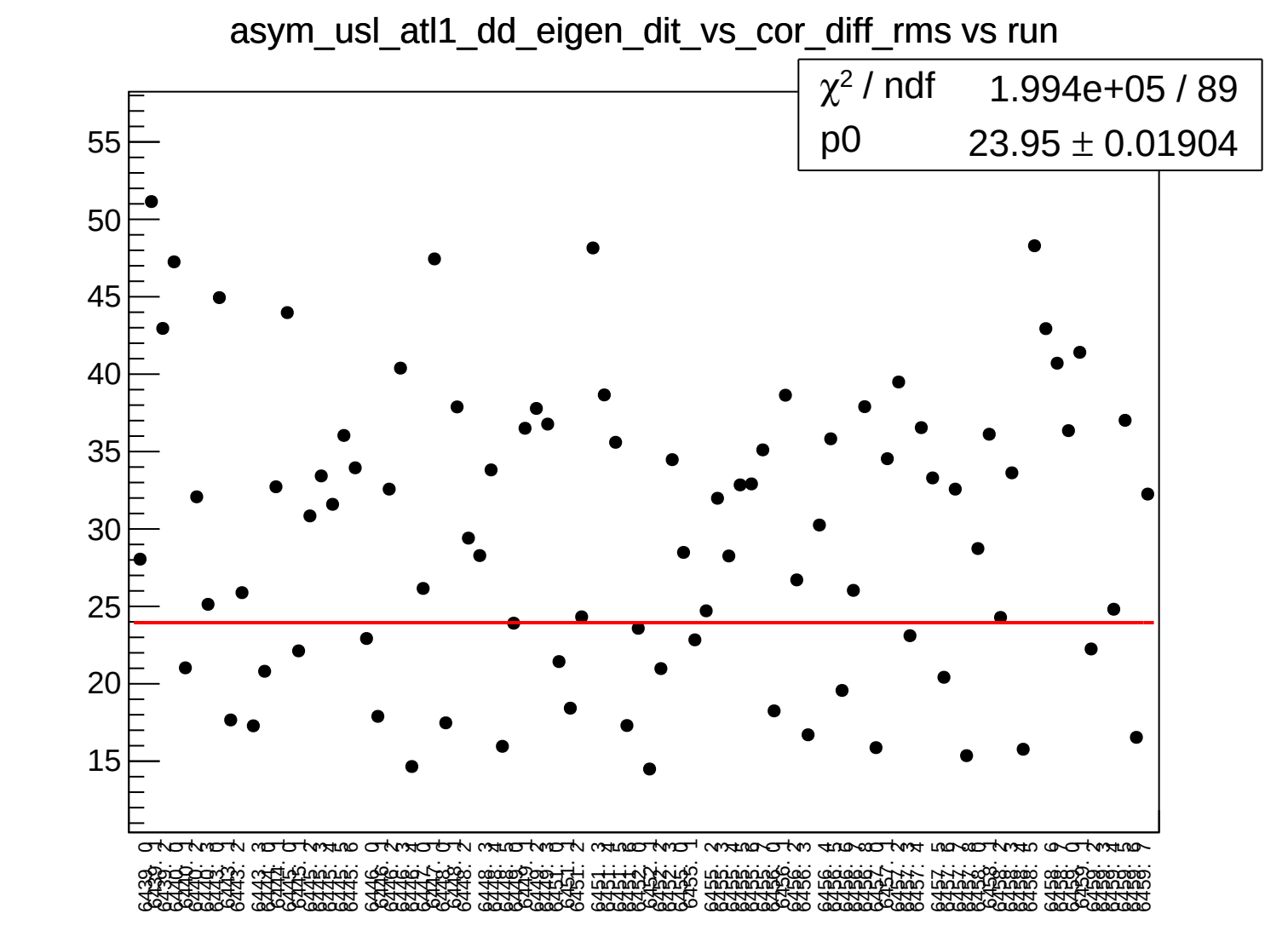

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 86 / 89
p0 −1.125e−06 ± 2.313e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 90
Mean −21.06
Std Dev 18.83
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

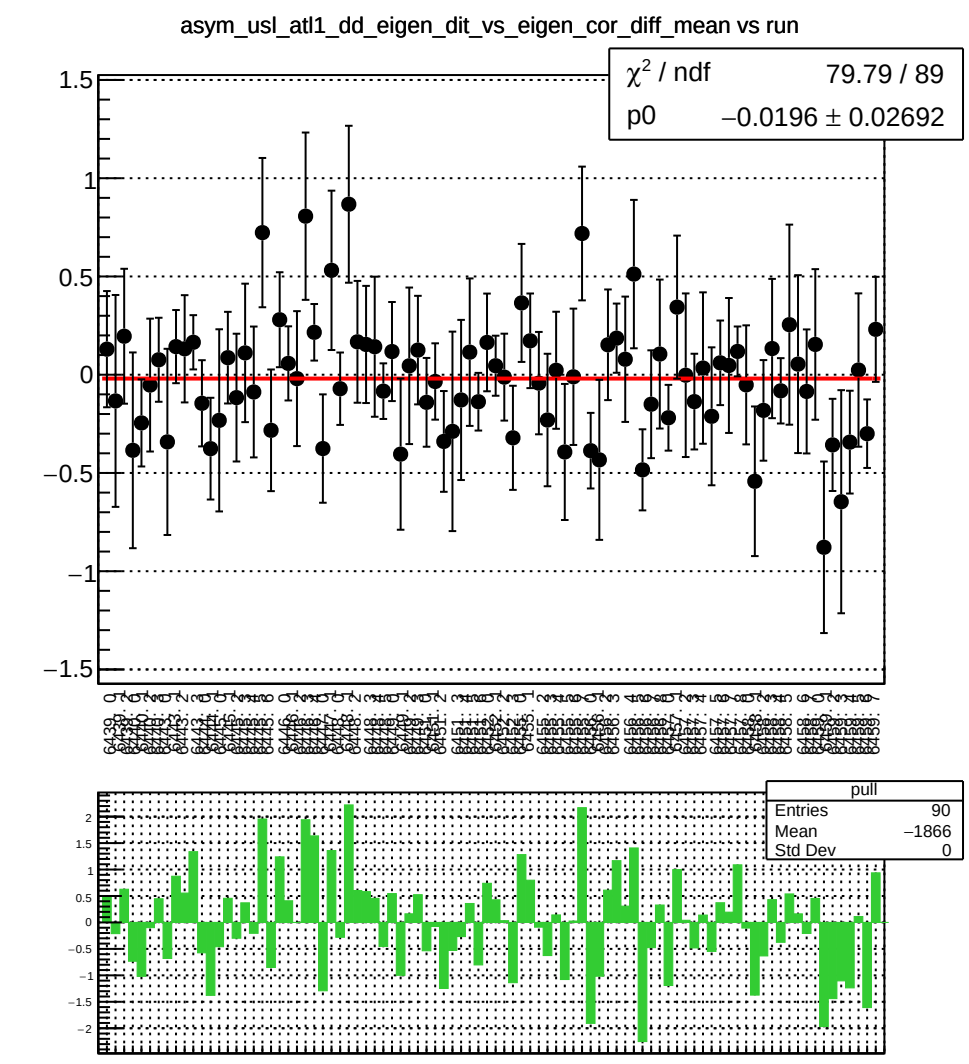

pull1D
Entries 90
Mean 0.01104
Std Dev 0.9775
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

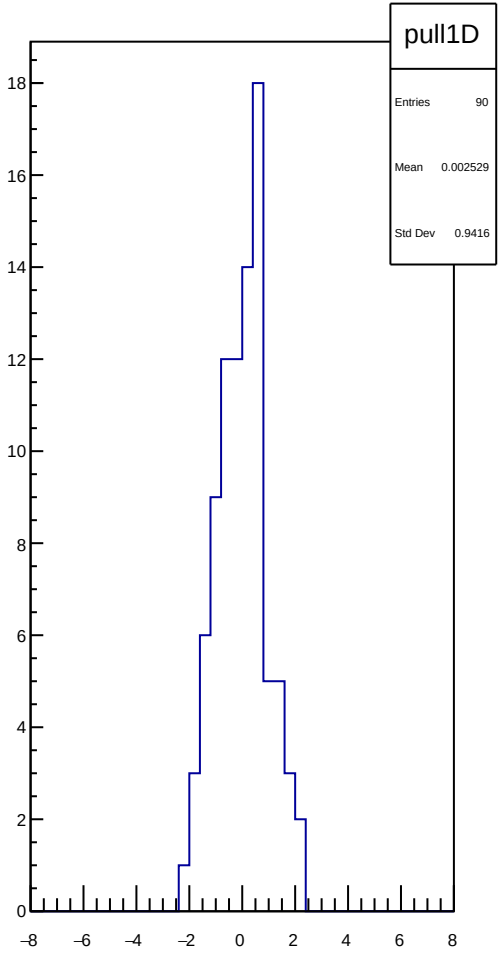

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.708e+04 / 89
p0 0.002173 ± 1.635e−06
0.0027
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021
0.002
0.0019
0.0018

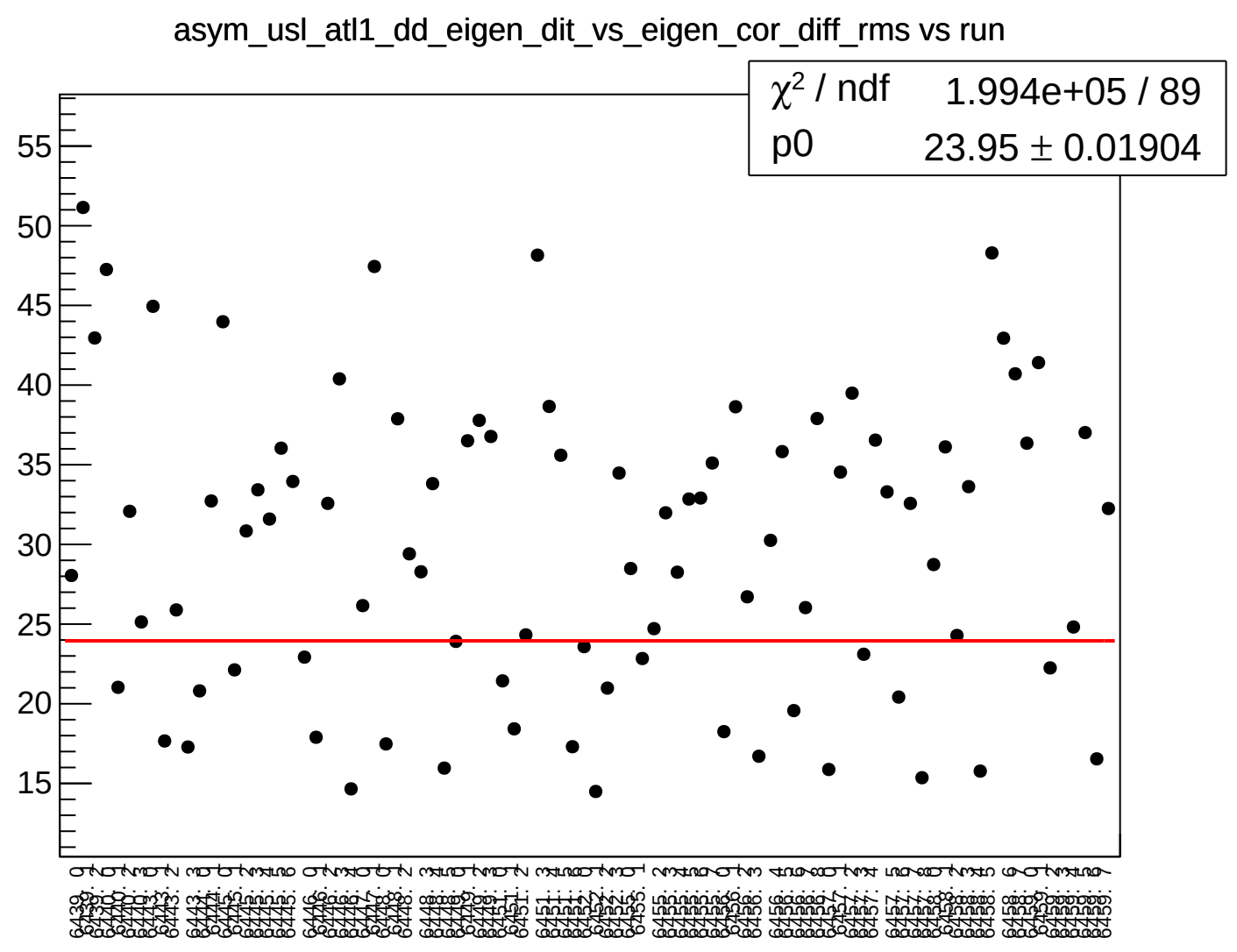

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.79 / 89
p0 −0.0196 ± 0.02692
pull
Entries 90
Mean −1866
Std Dev 0

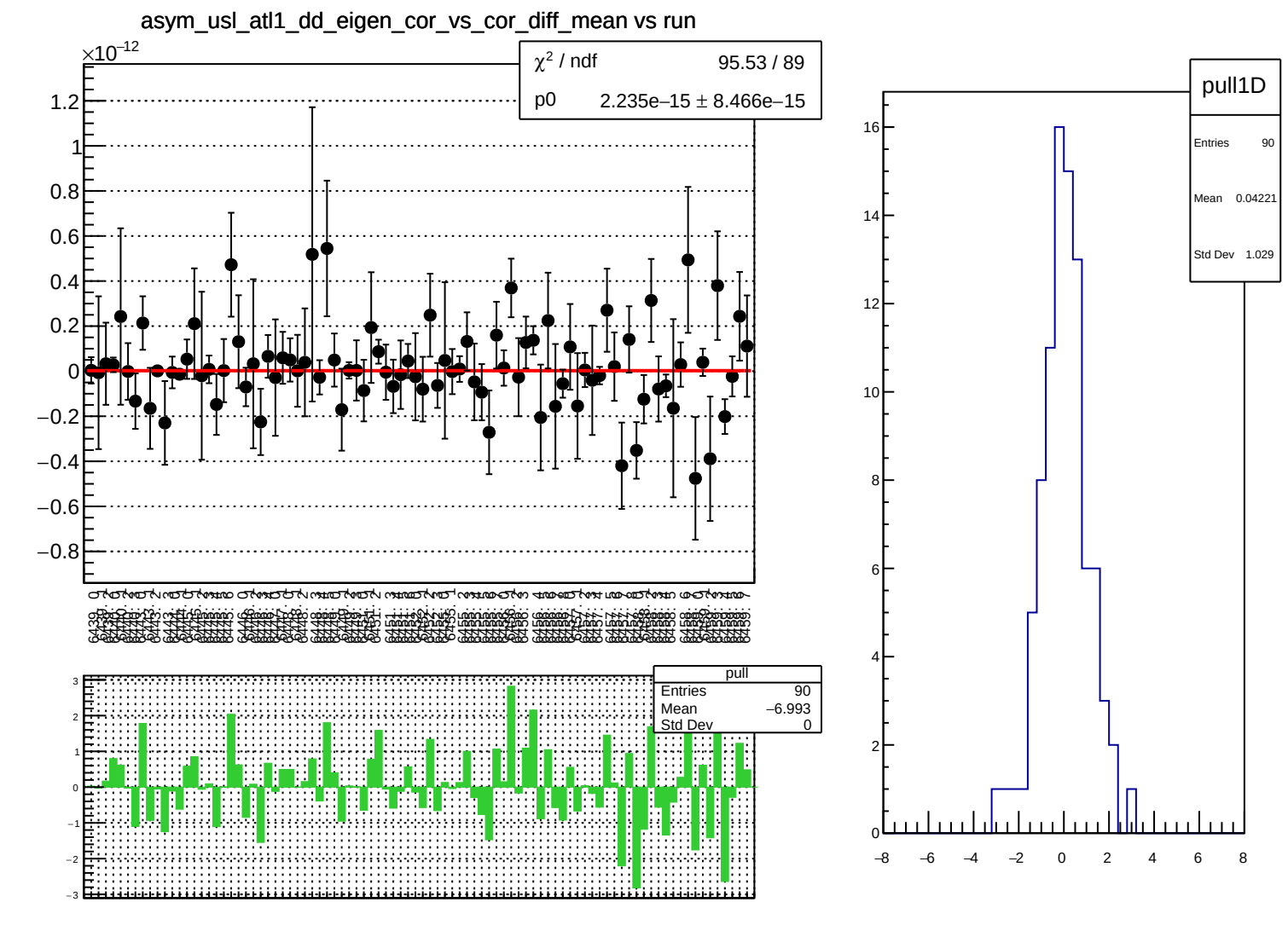

pull1D
Entries 90
Mean 0.002529
Std Dev 0.9416

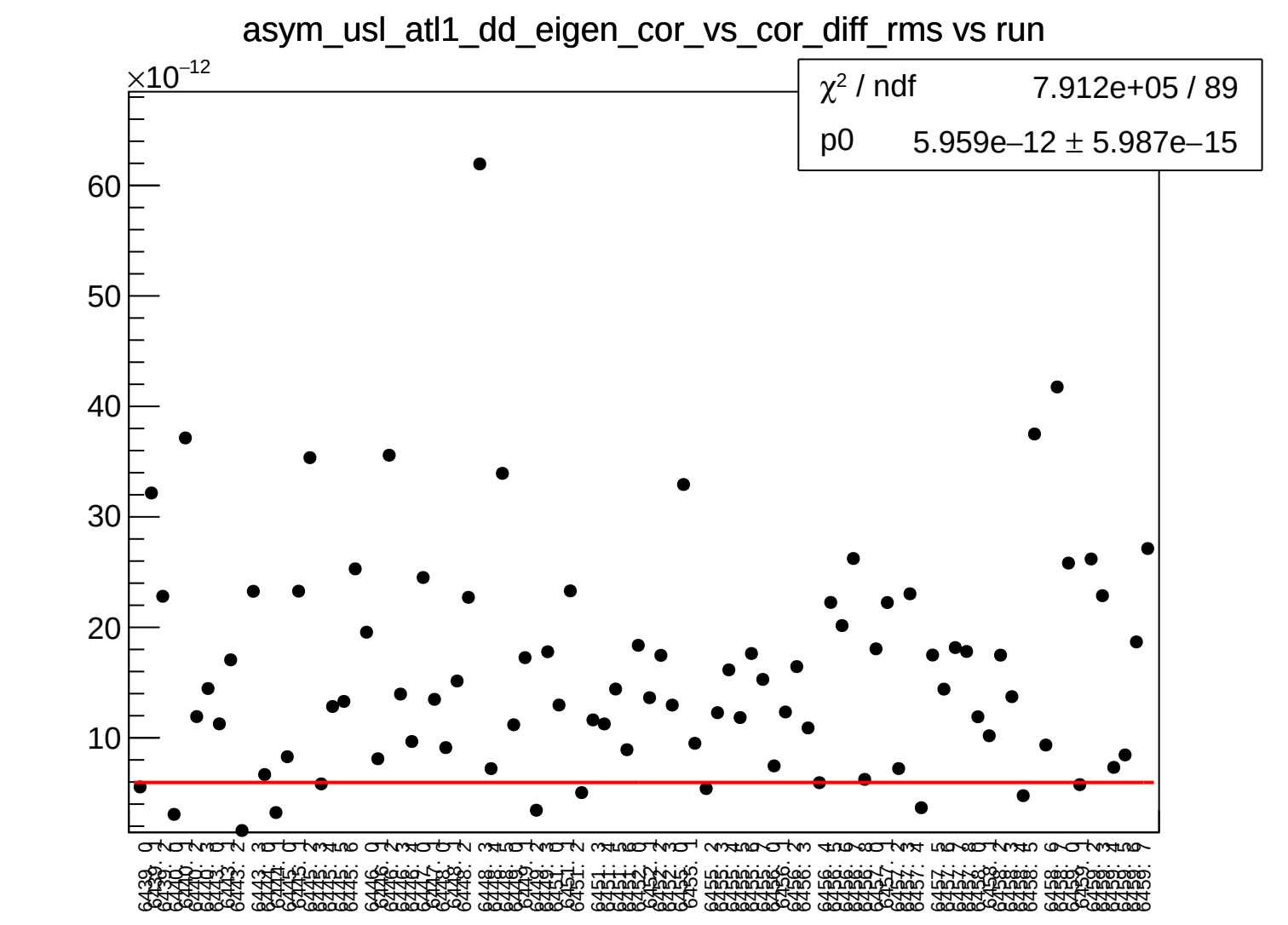

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.994e+05 / 89
p0 23.95 ± 0.01904
55
50
45
40
35
30
25
20
15

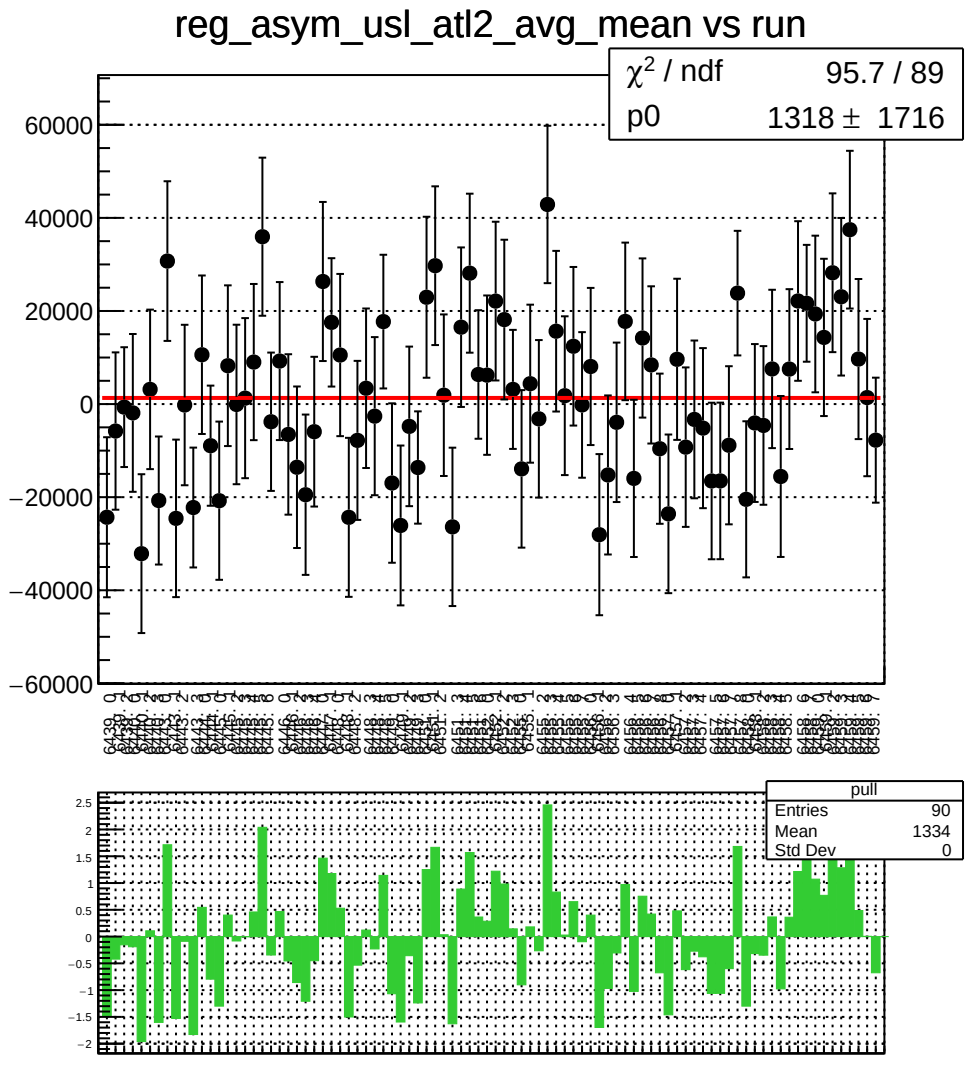

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.79 / 89
p0 −0.0196 ± 0.02692
pull
Entries 90
Mean −1866
Std Dev 0

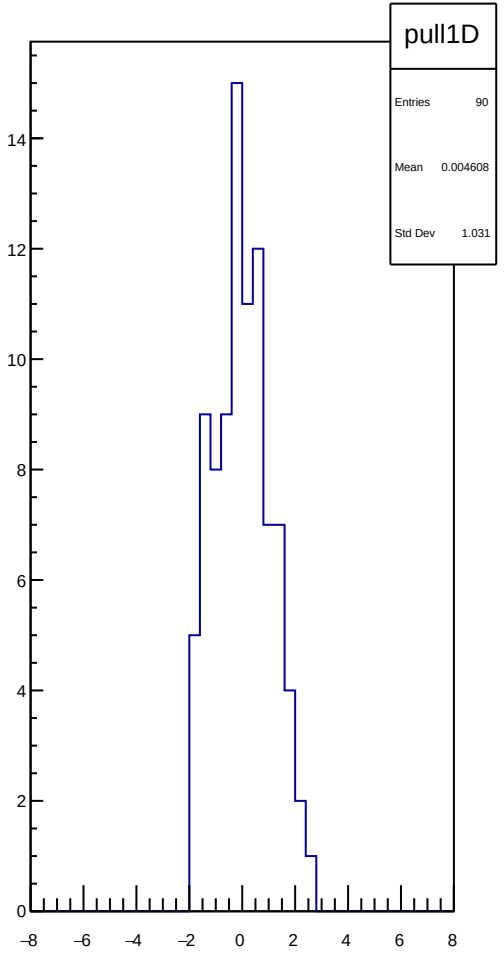

pull1D
Entries 90
Mean 0.002529
Std Dev 0.9416

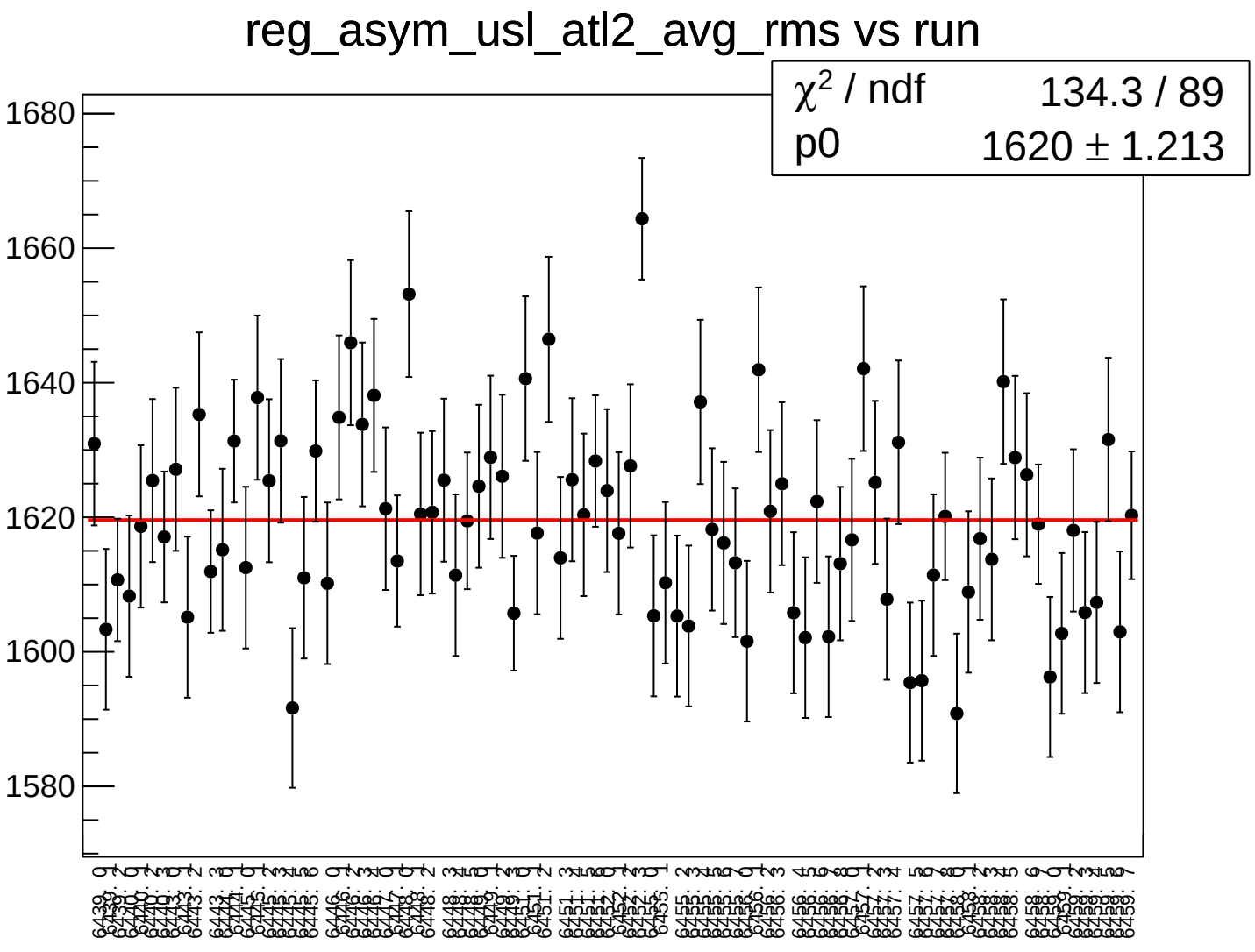

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.994e+05 / 89
p0 23.95 ± 0.01904
55
50
45
40
35
30
25
20
15

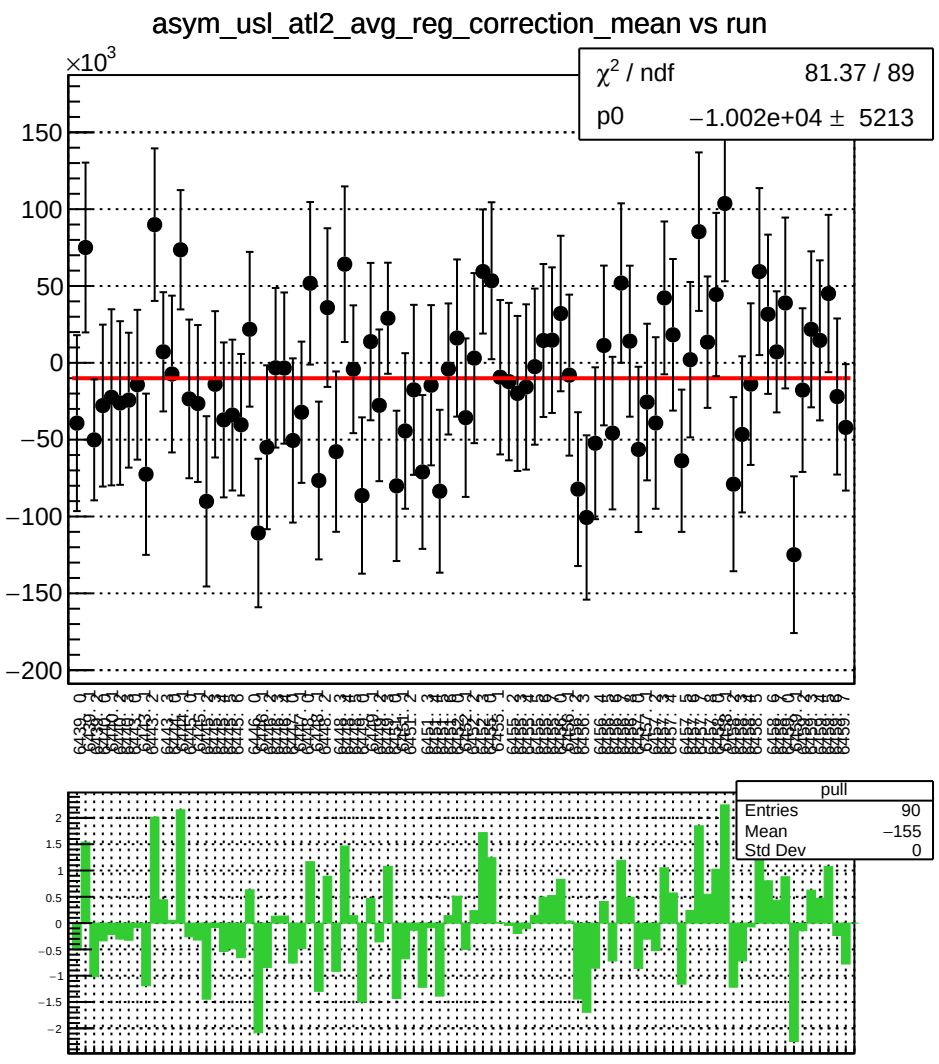

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.53 / 89
p0 2.235e−15 ± 8.466e−15
pull
Entries 90
Mean −6.993
Std Dev 0
pull1D
Entries 90
Mean 0.04221
Std Dev 1.029

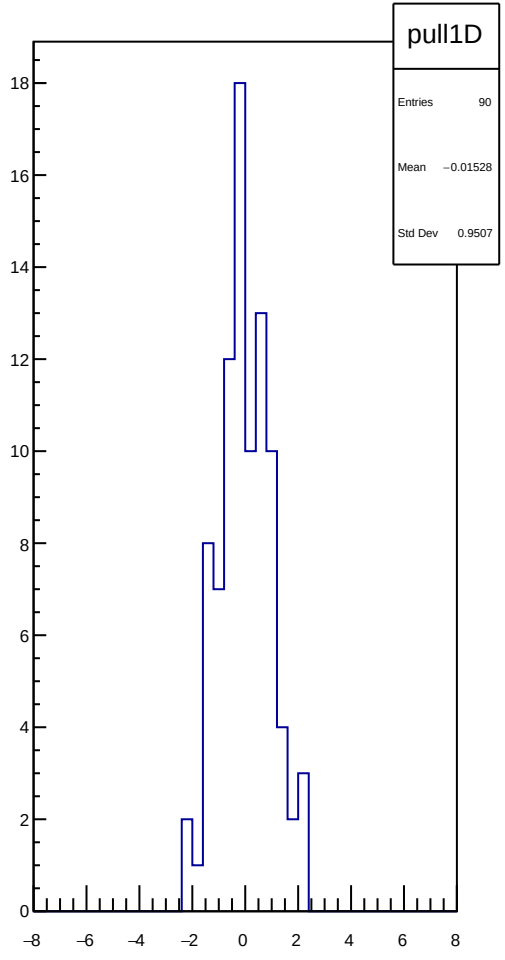

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.912e+05 / 89
p0 5.959e−12 ± 5.987e−15
60
50
40
30
20
10

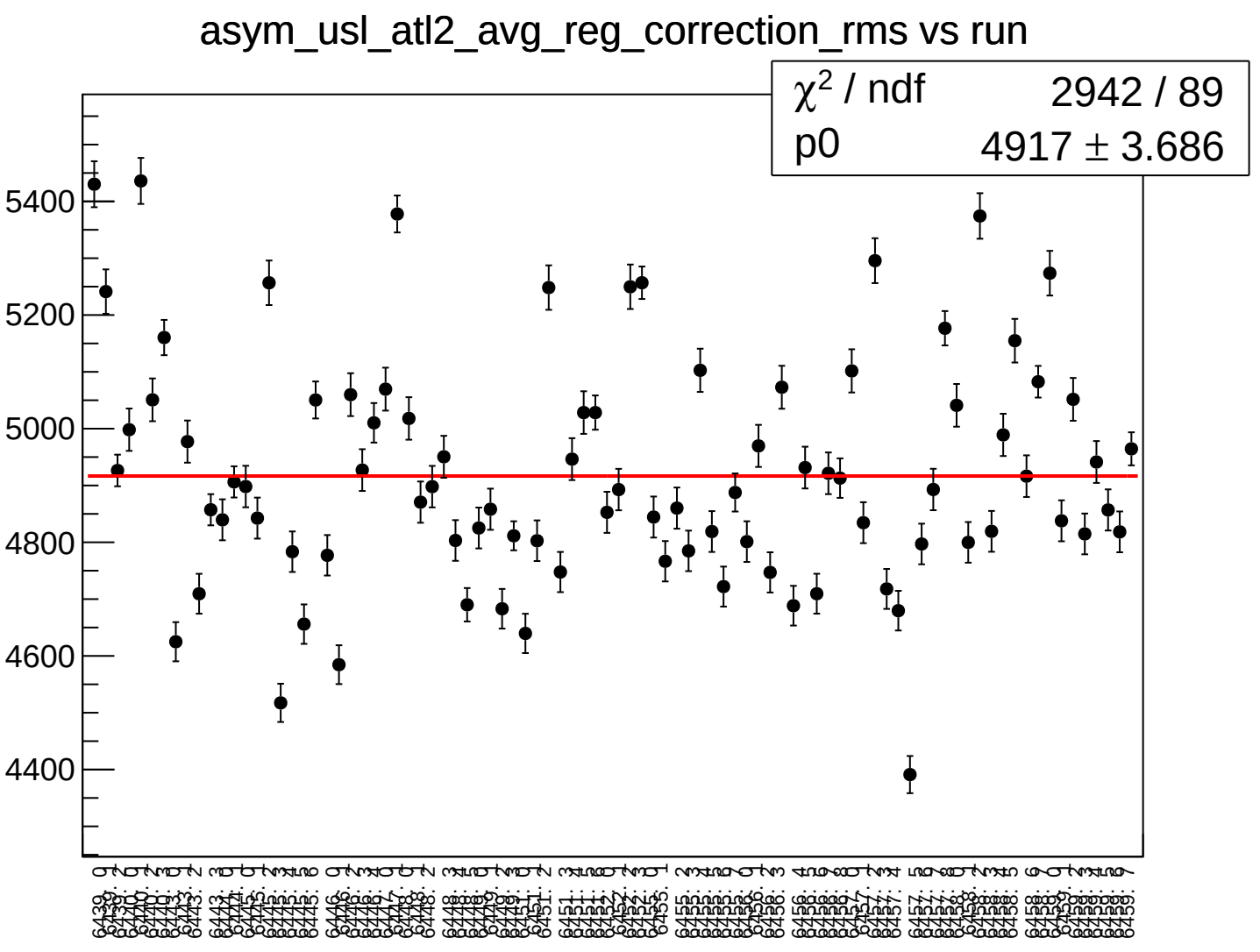

reg_asym_usl_atl2_avg_mean vs run
χ² / ndf 95.7 / 89
p0 1318 ± 1716
pull
Entries 90
Mean 1334
Std Dev 0

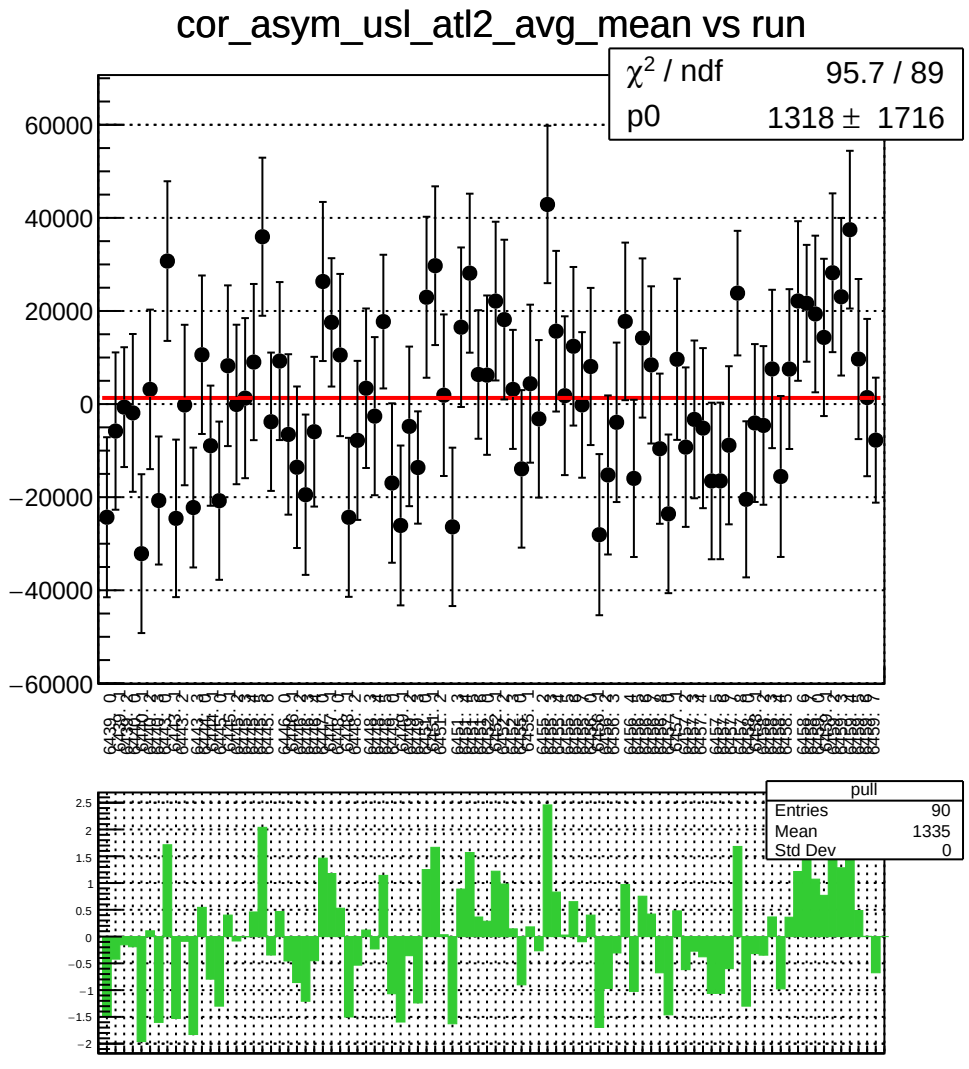

pull1D
Entries 90
Mean 0.004608
Std Dev 1.031

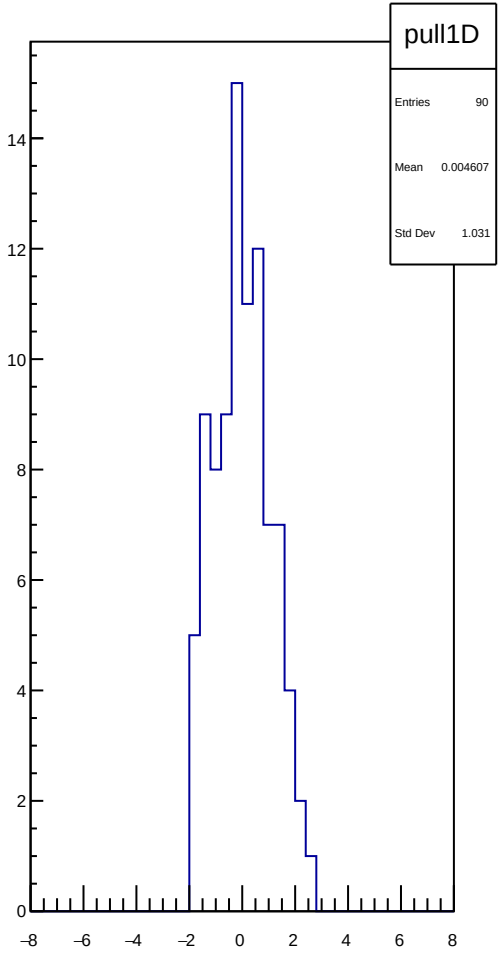

reg_asym_usl_atl2_avg_rms vs run
χ² / ndf 134.3 / 89
p0 1620 ± 1.213
1680
1660
1640
1620
1600
1580

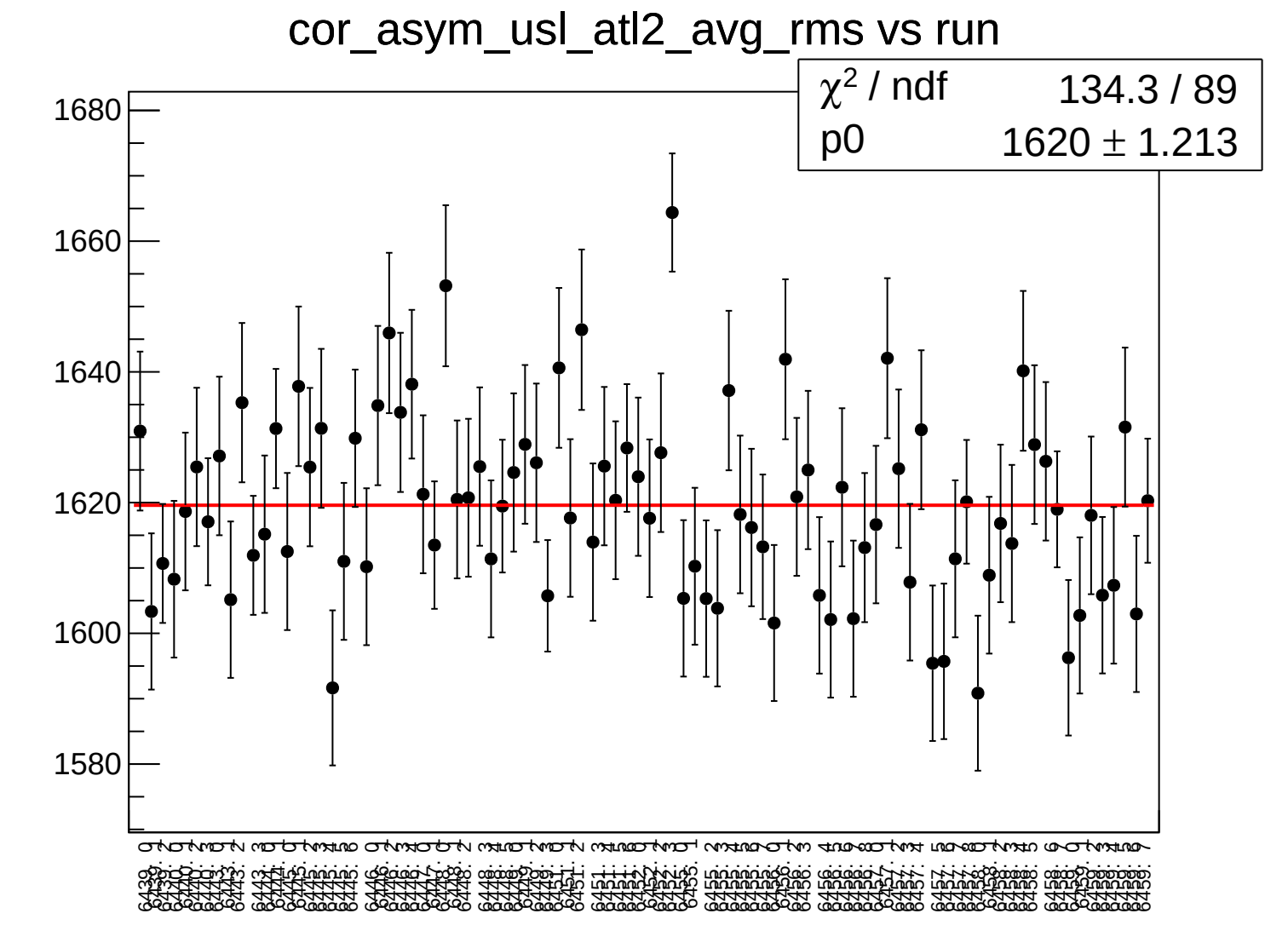

asym_usl_atl2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 81.37 / 89
p0 −1.002e+04 ± 5213
150
100
50
0
−50
−100
−150
−200
pull
Entries 90
Mean −155
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

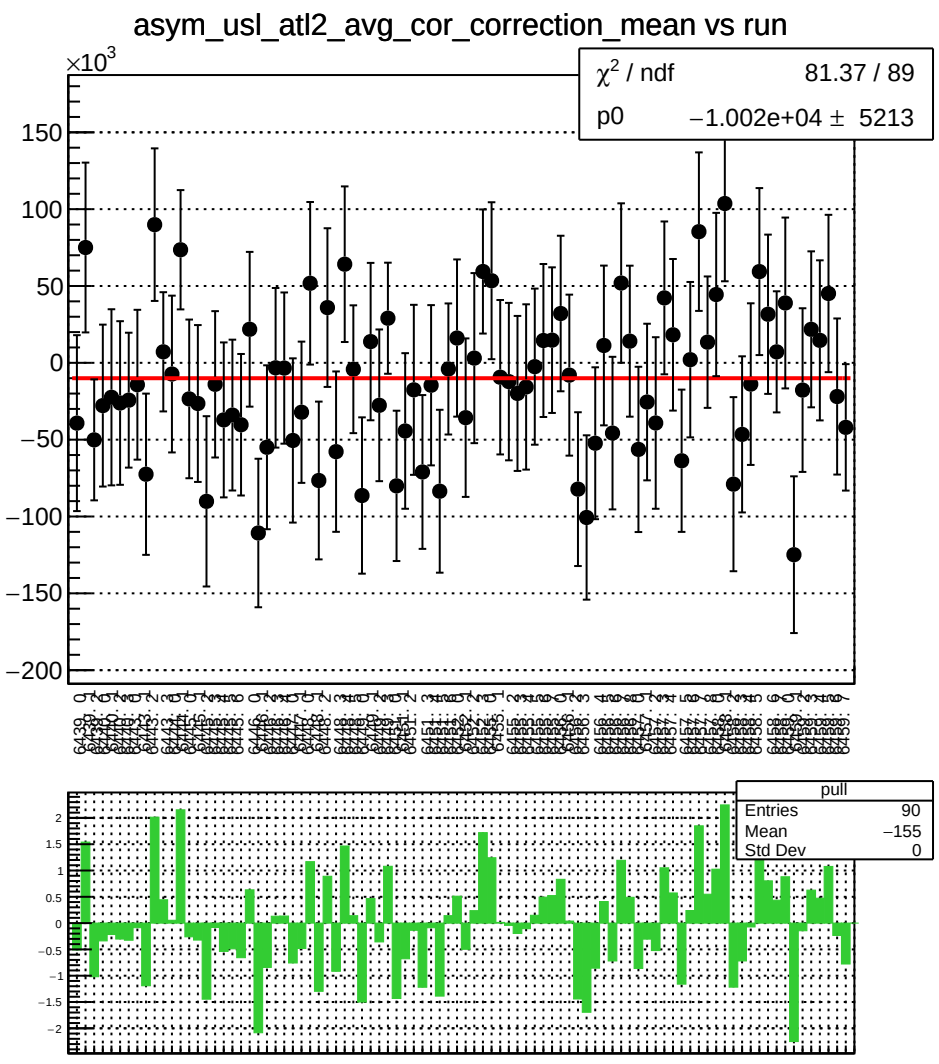

pull1D
Entries 90
Mean −0.01528
Std Dev 0.9507
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

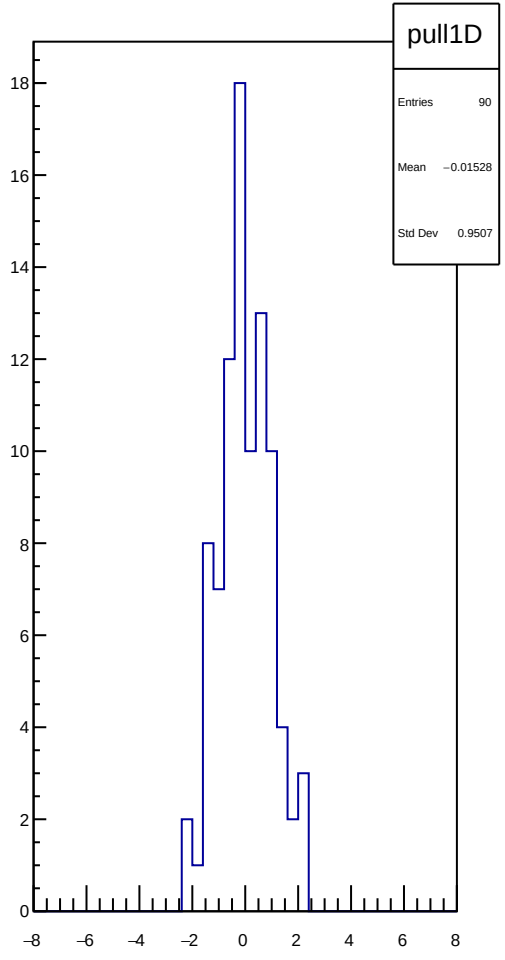

asym_usl_atl2_avg_reg_correction_rms vs run
χ² / ndf 2942 / 89
p0 4917 ± 3.686
5400
5200
5000
4800
4600
4400

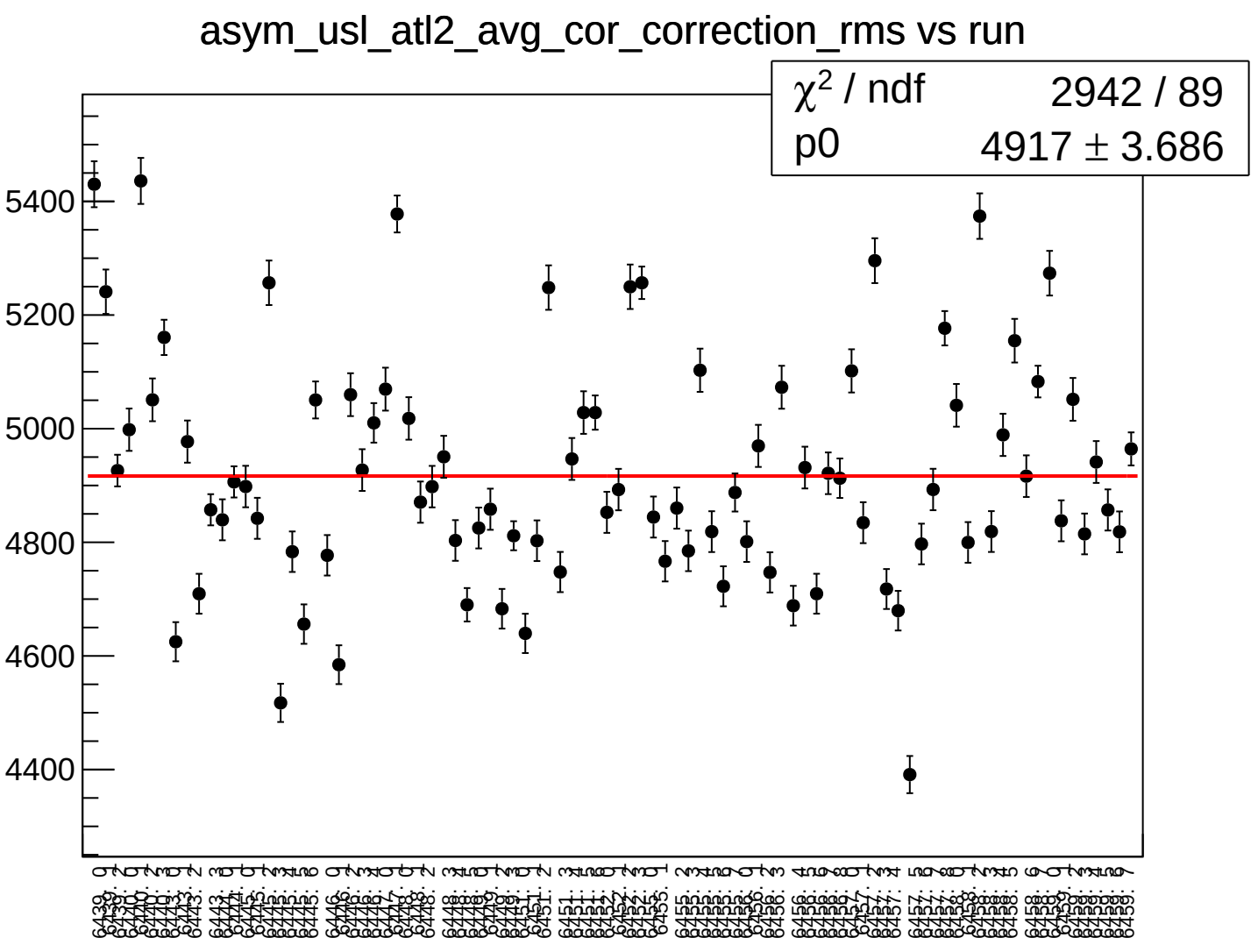

cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 95.7 / 89
p0 1318 ± 1716
pull
Entries 90
Mean 1335
Std Dev 0

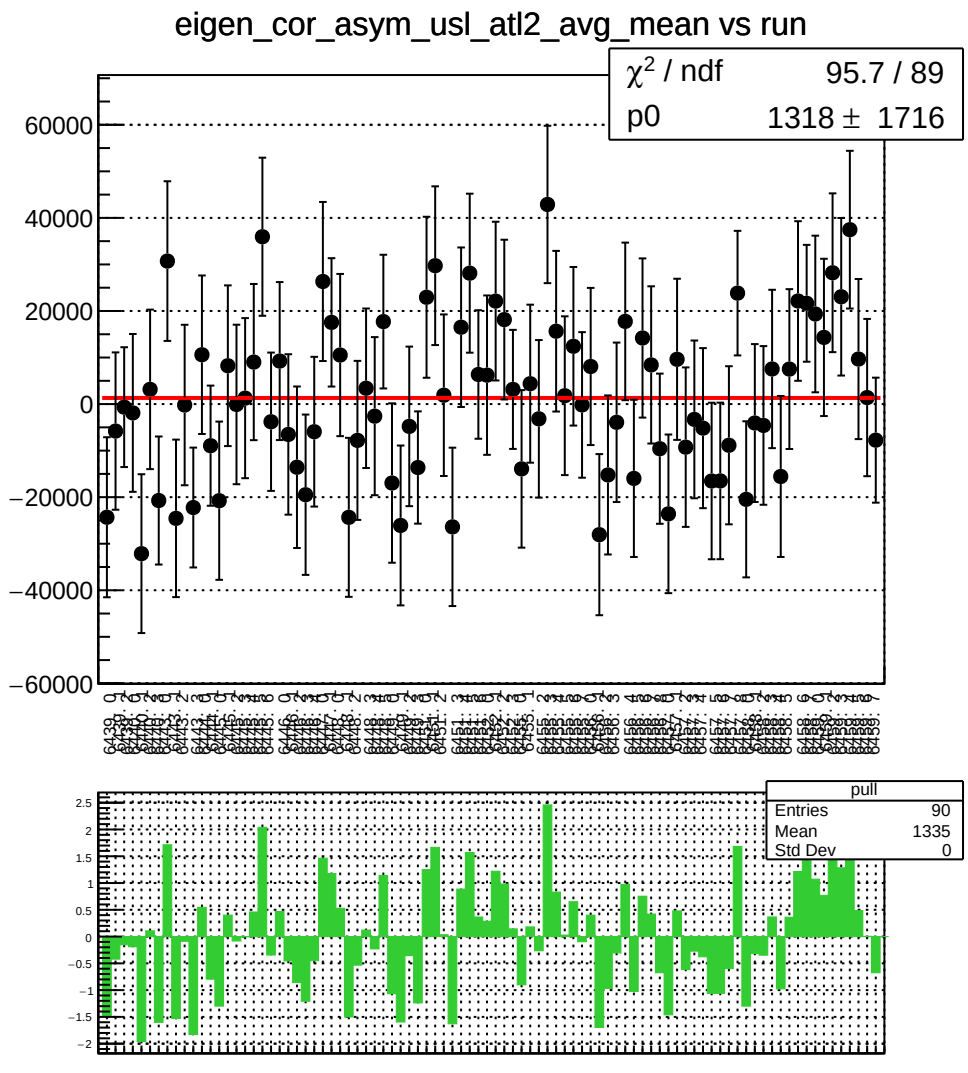

pull1D
Entries 90
Mean 0.004607
Std Dev 1.031

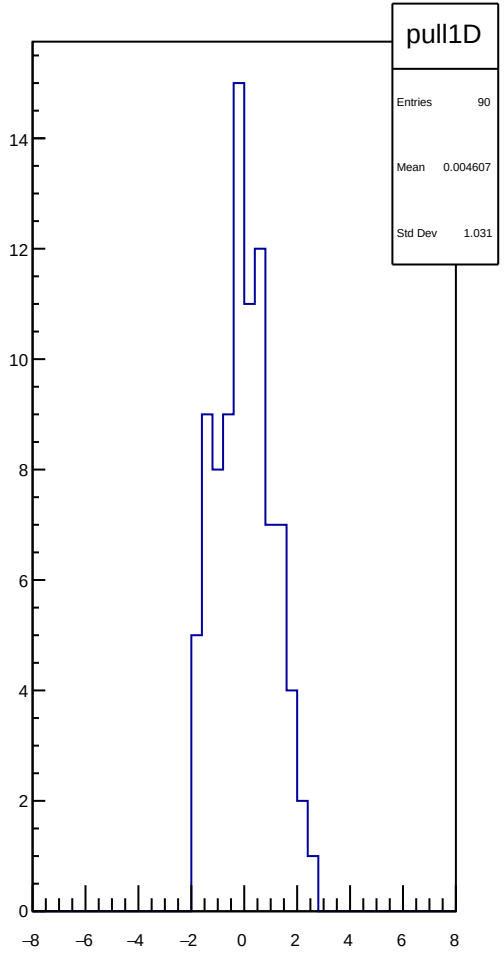

cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 134.3 / 89
p0 1620 ± 1.213
1680
1660
1640
1620
1600
1580

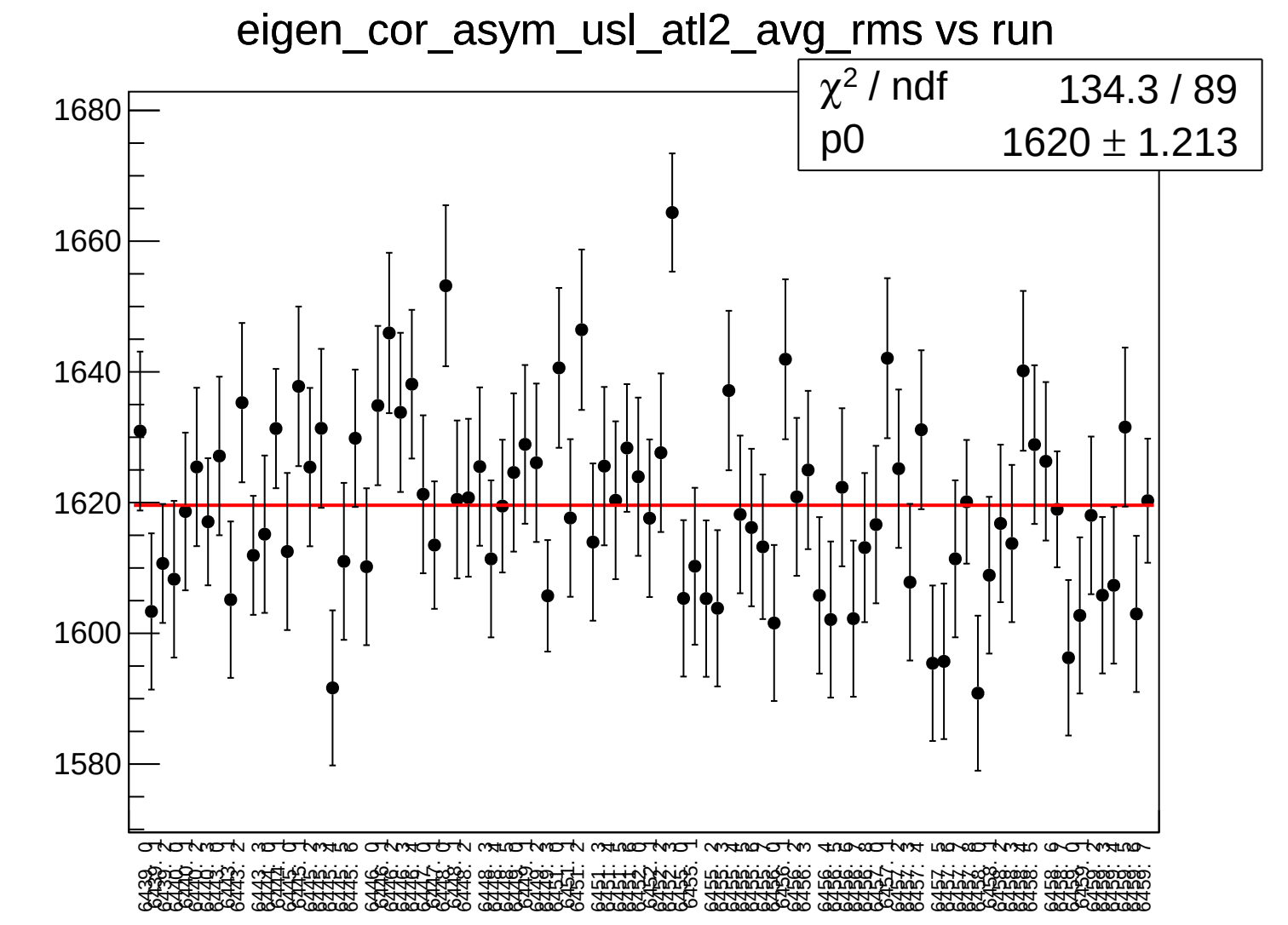

asym_usl_atl2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 81.37 / 89
p0 −1.002e+04 ± 5213
150
100
50
0
−50
−100
−150
−200
pull
Entries 90
Mean −155
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

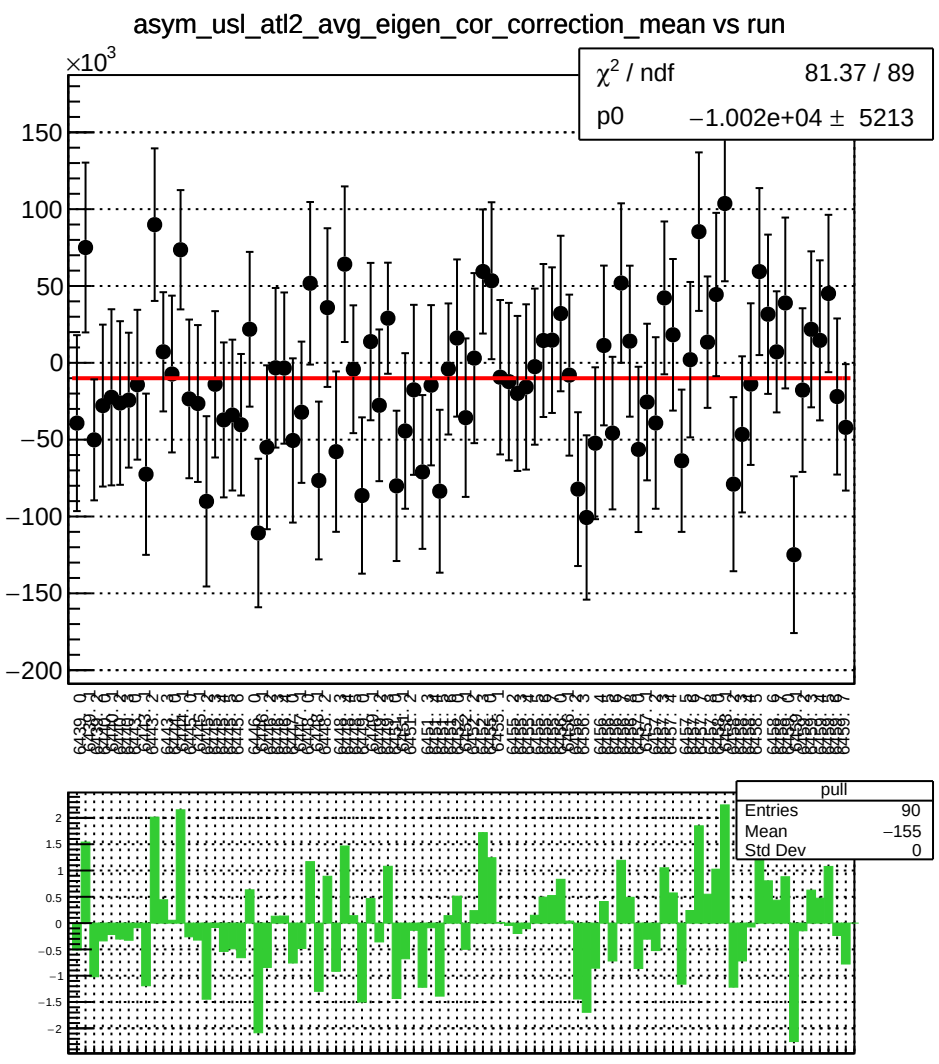

pull1D
Entries 90
Mean −0.01528
Std Dev 0.9507
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

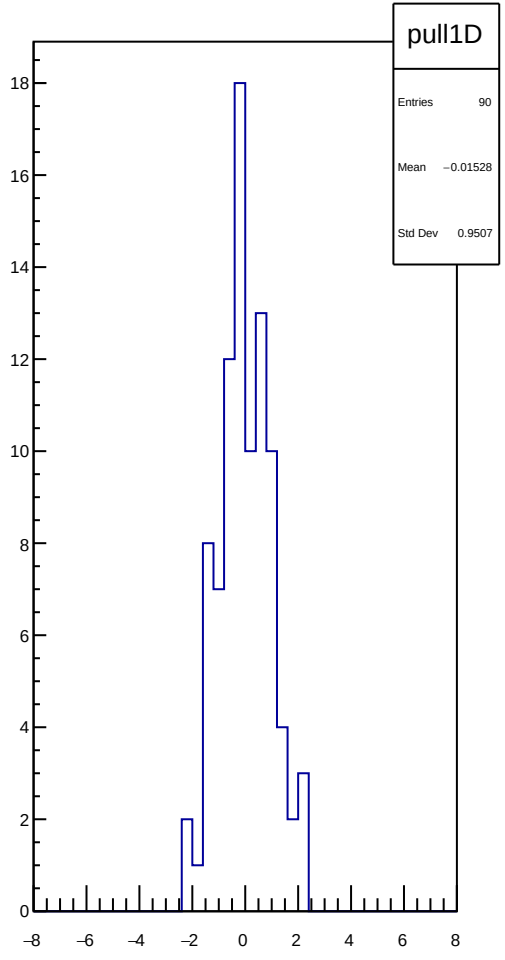

asym_usl_atl2_avg_cor_correction_rms vs run
χ² / ndf 2942 / 89
p0 4917 ± 3.686
5400
5200
5000
4800
4600
4400

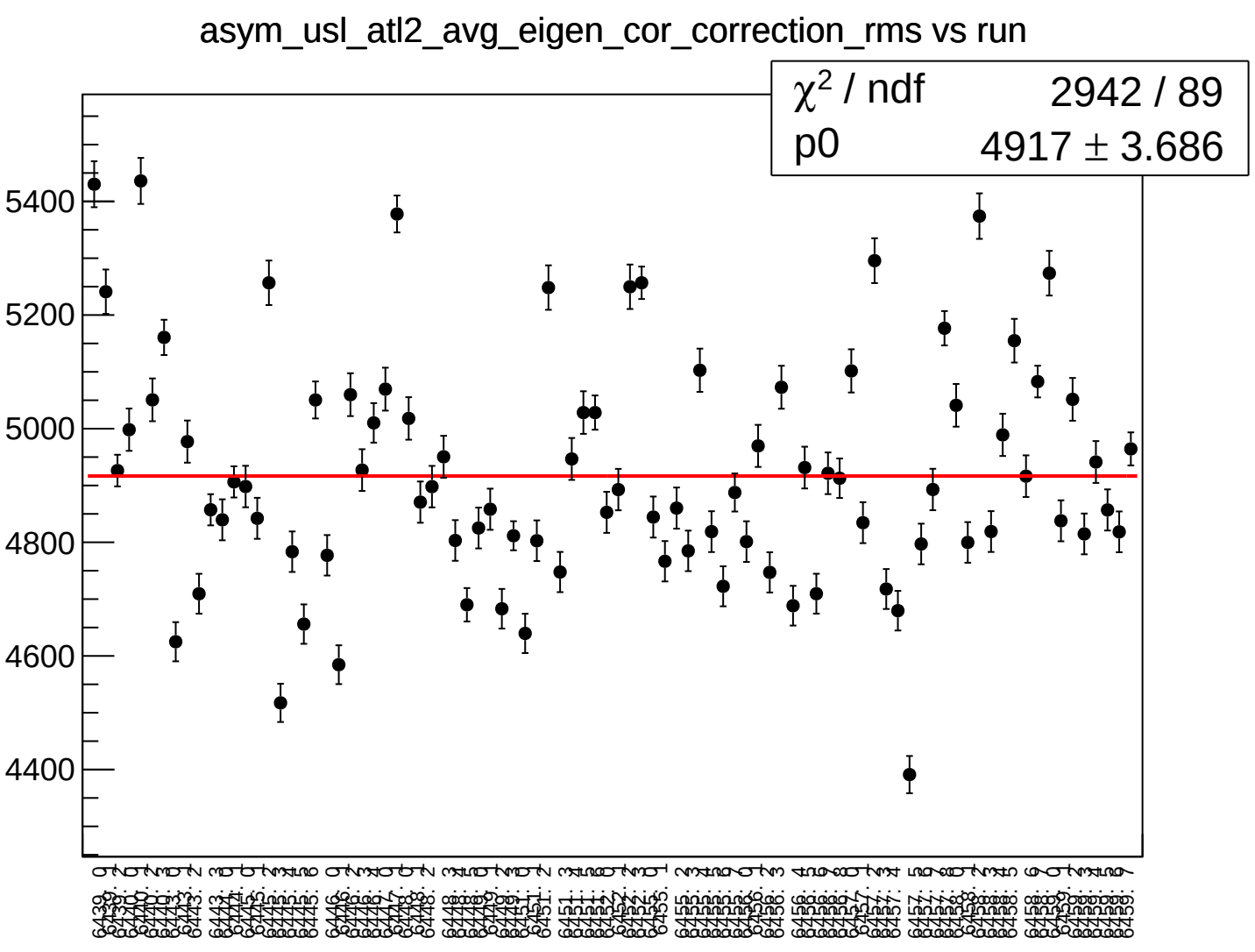

eigen_cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 95.7 / 89
p0 1318 ± 1716
pull
Entries 90
Mean 1335
Std Dev 0

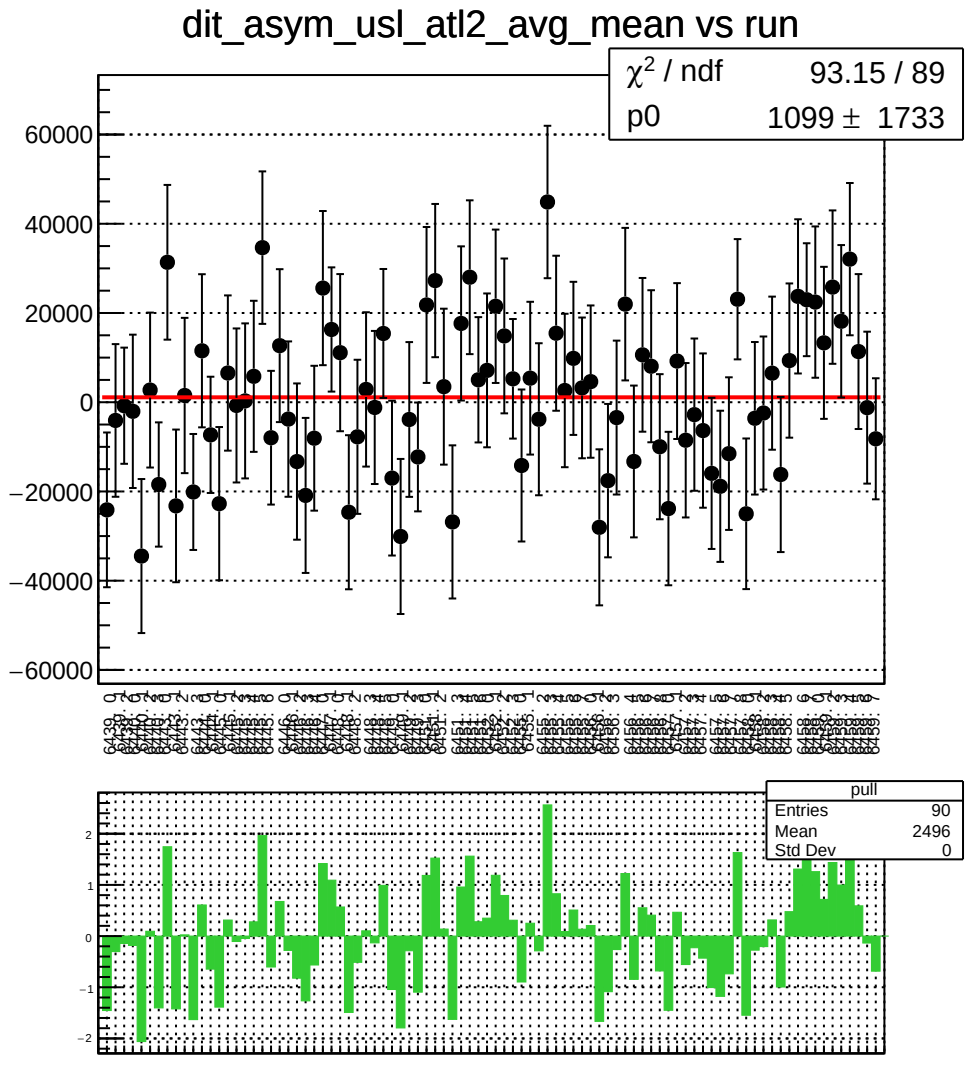

pull1D
Entries 90
Mean 0.004607
Std Dev 1.031

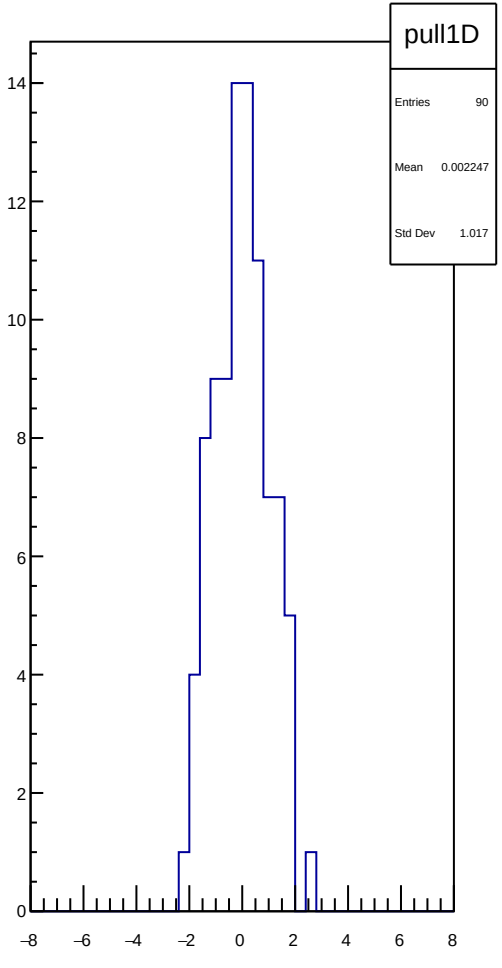

eigen_cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 134.3 / 89
p0 1620 ± 1.213
1680
1660
1640
1620
1600
1580

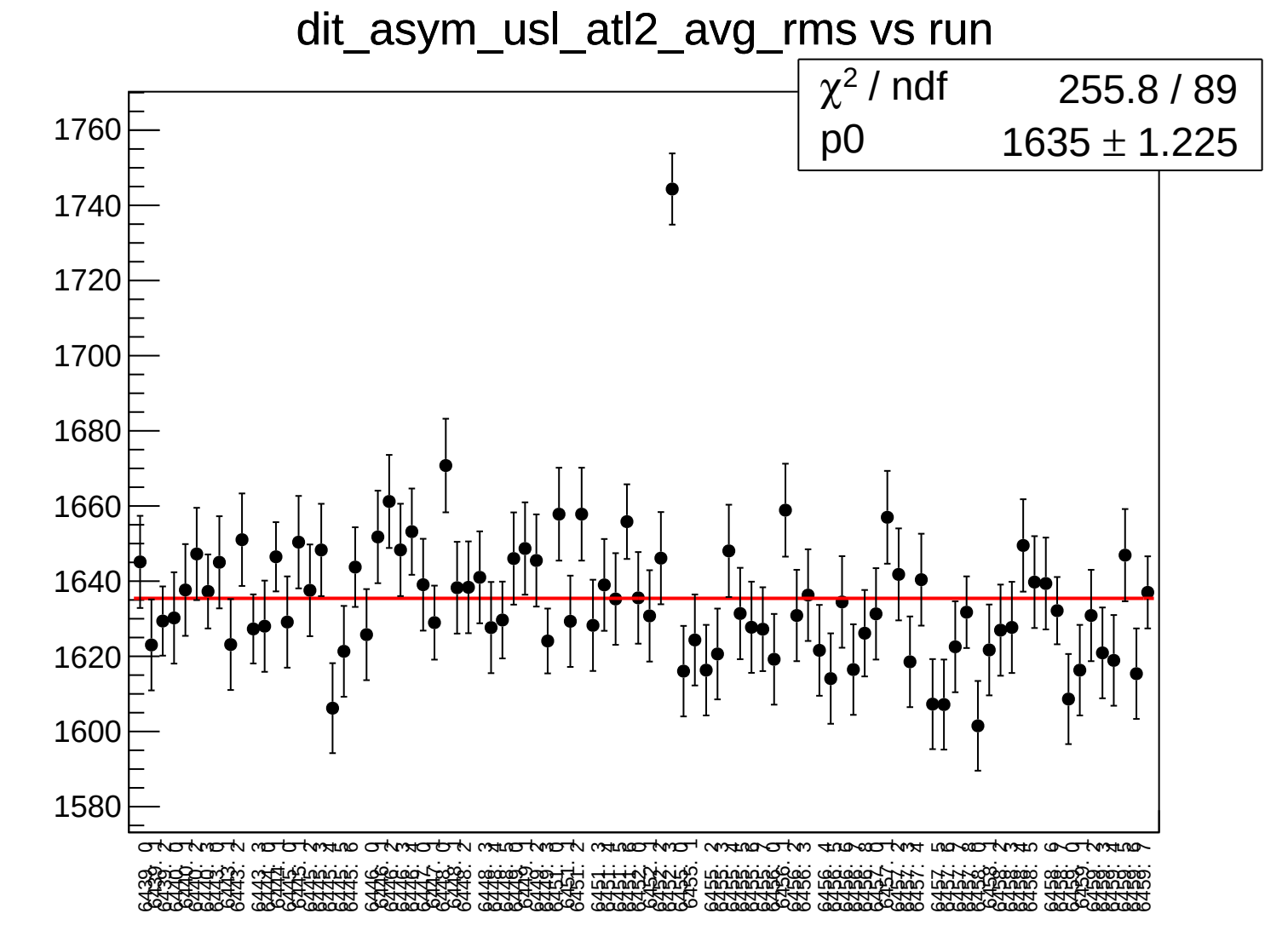

asym_usl_atl2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 81.37 / 89
p0 −1.002e+04 ± 5213
150
100
50
0
−50
−100
−150
−200
pull
Entries 90
Mean −155
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

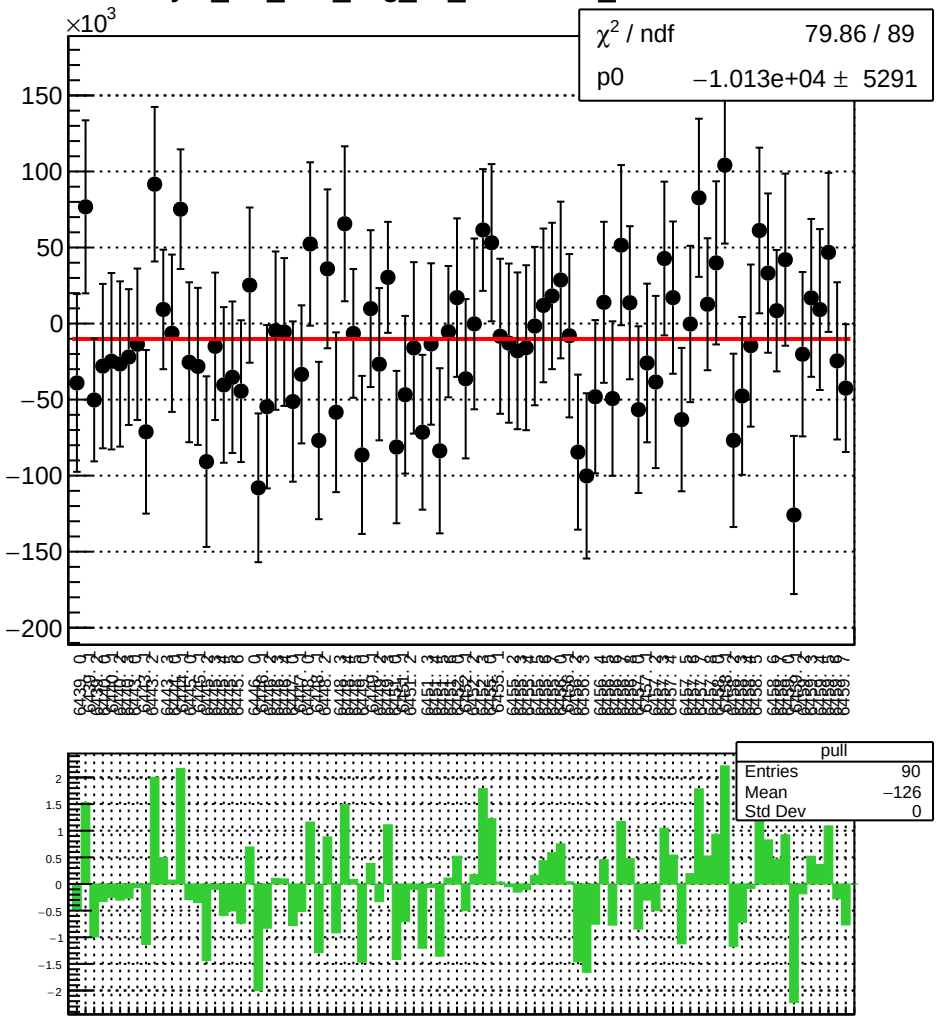

pull1D
Entries 90
Mean −0.01528
Std Dev 0.9507
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

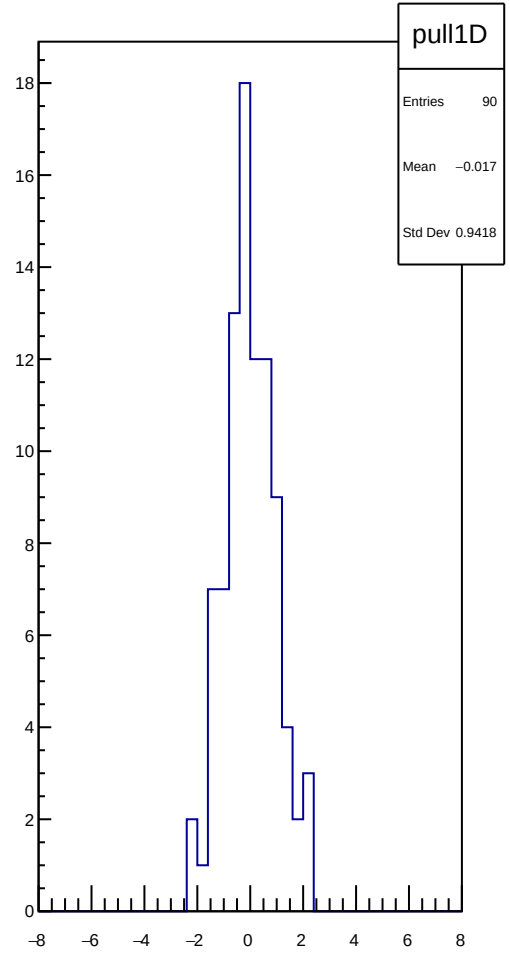

asym_usl_atl2_avg_eigen_cor_correction_rms vs run
χ² / ndf 2942 / 89
p0 4917 ± 3.686
5400
5200
5000
4800
4600
4400

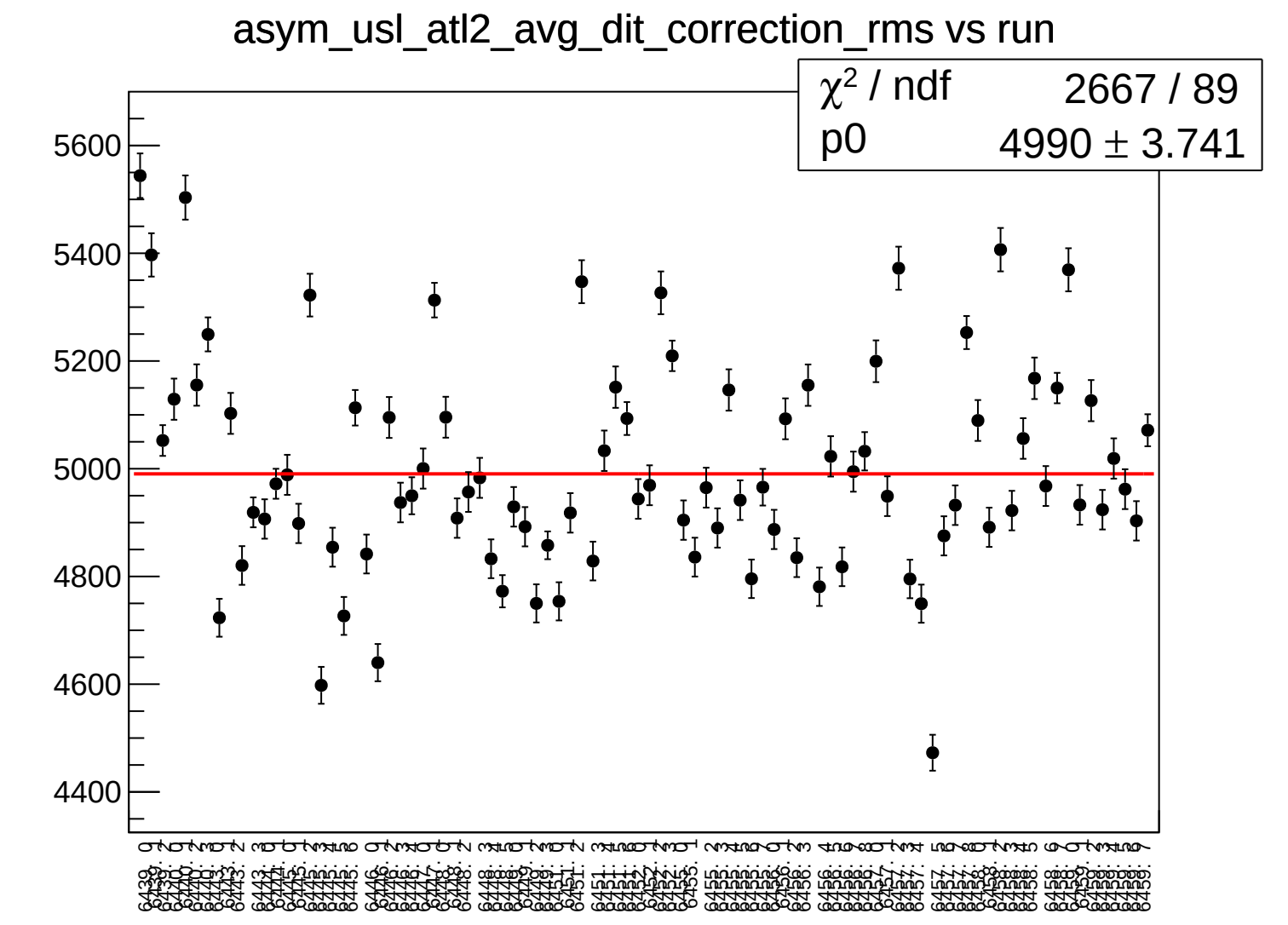

dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 93.15 / 89
p0 1099 ± 1733
pull
Entries 90
Mean 2496
Std Dev 0

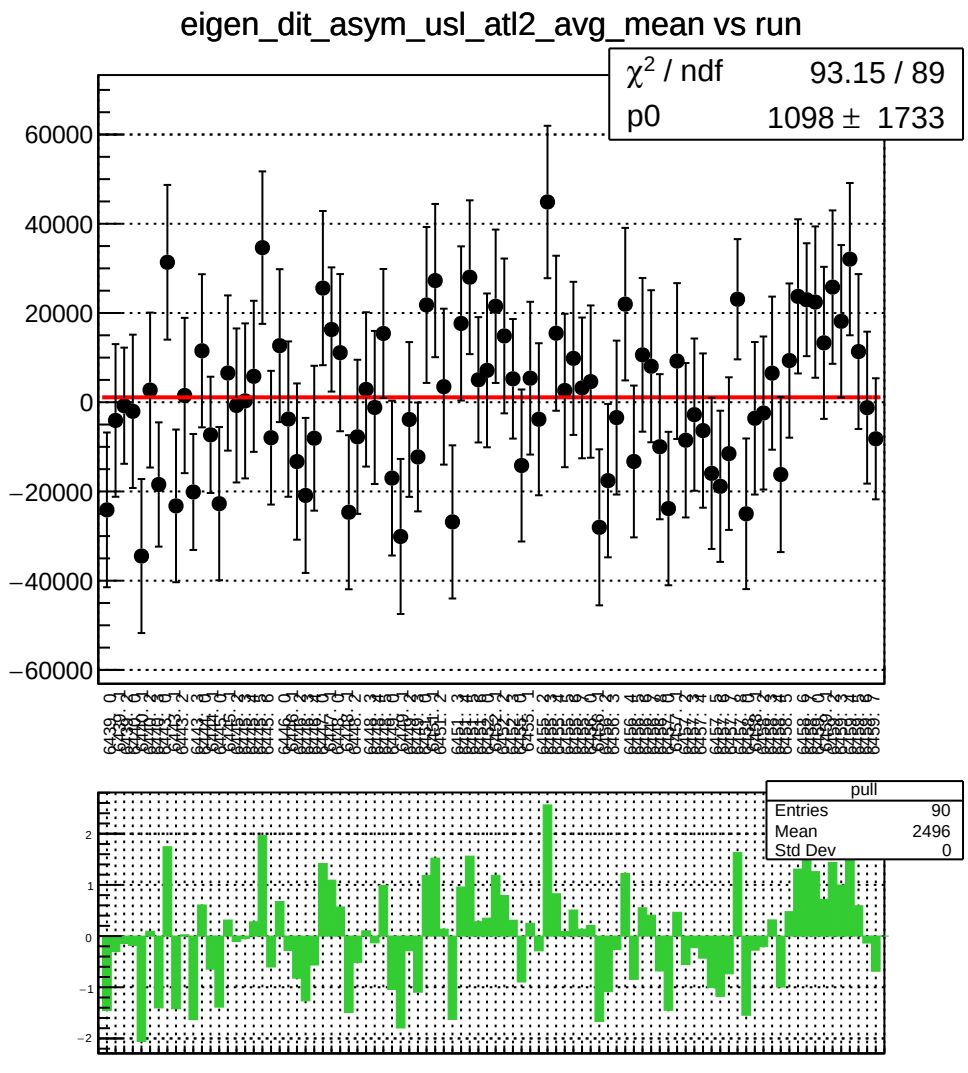

pull1D
Entries 90
Mean 0.002247
Std Dev 1.017

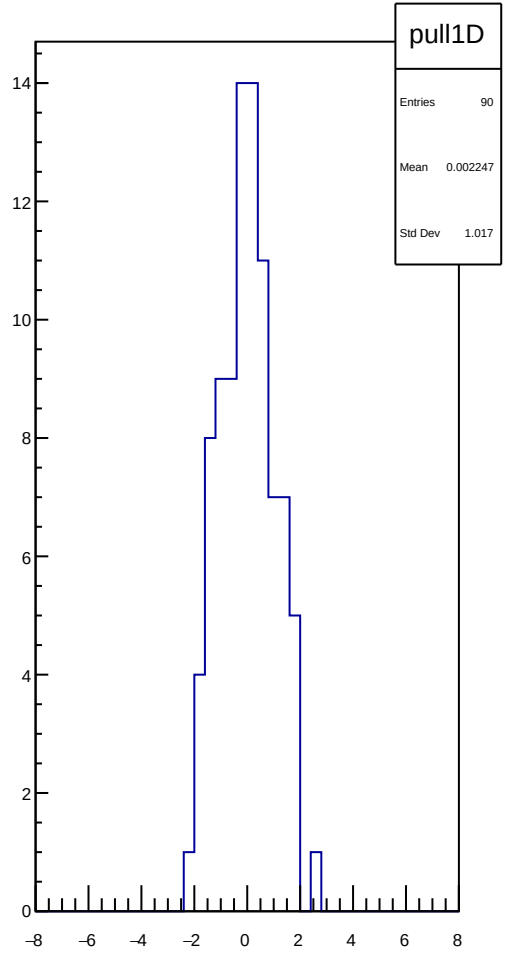

dit_asym_usl_atl2_avg_rms vs run
χ^2 / ndf 255.8 / 89
p0 1635 ± 1.225
1760
1740
1720
1700
1680
1660
1640
1620
1600
1580

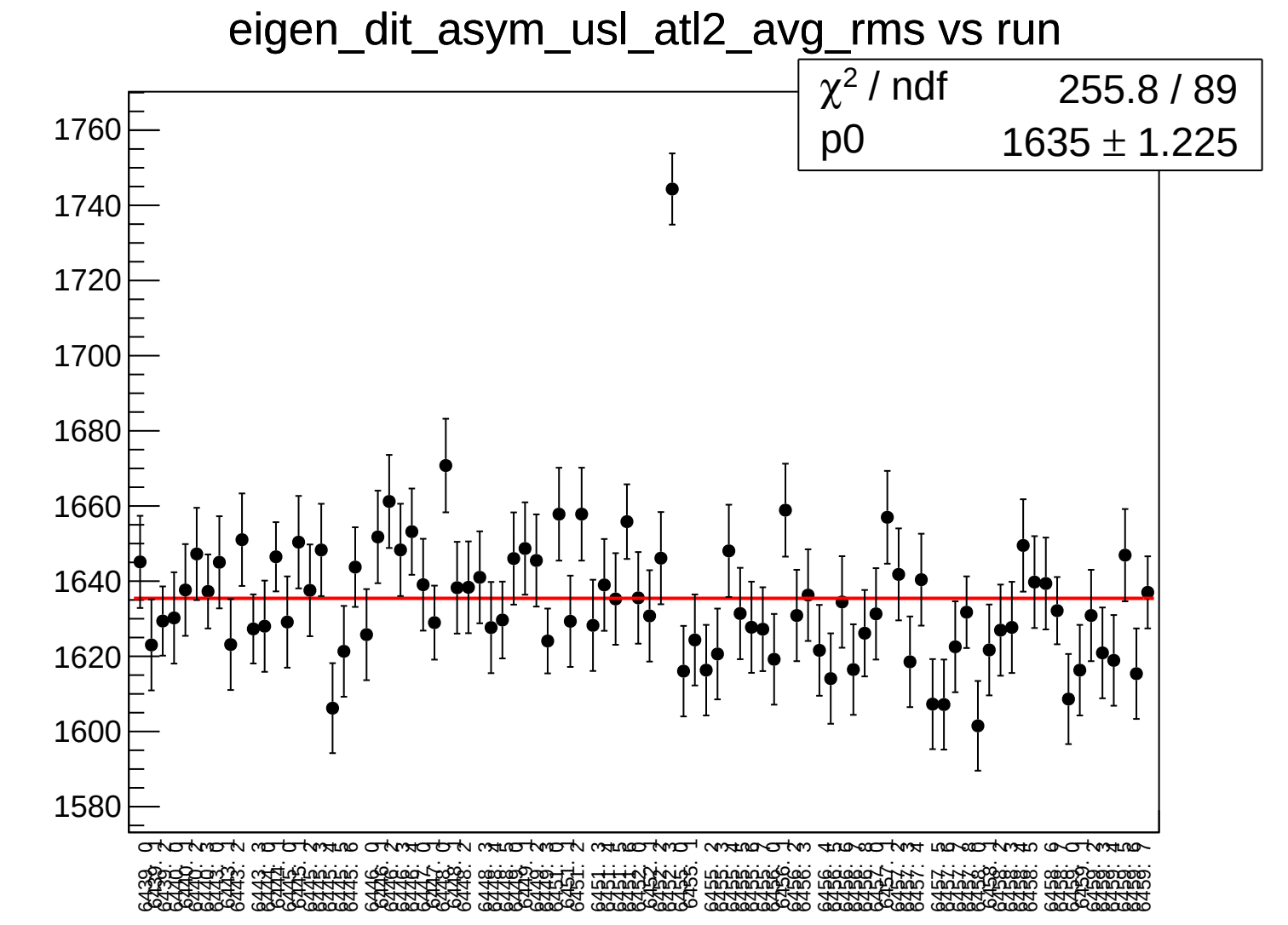

asym_usl_atl2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 79.86 / 89
p0 −1.013e+04 ± 5291
150
100
50
0
−50
−100
−150
−200
pull
Entries 90
Mean −126
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

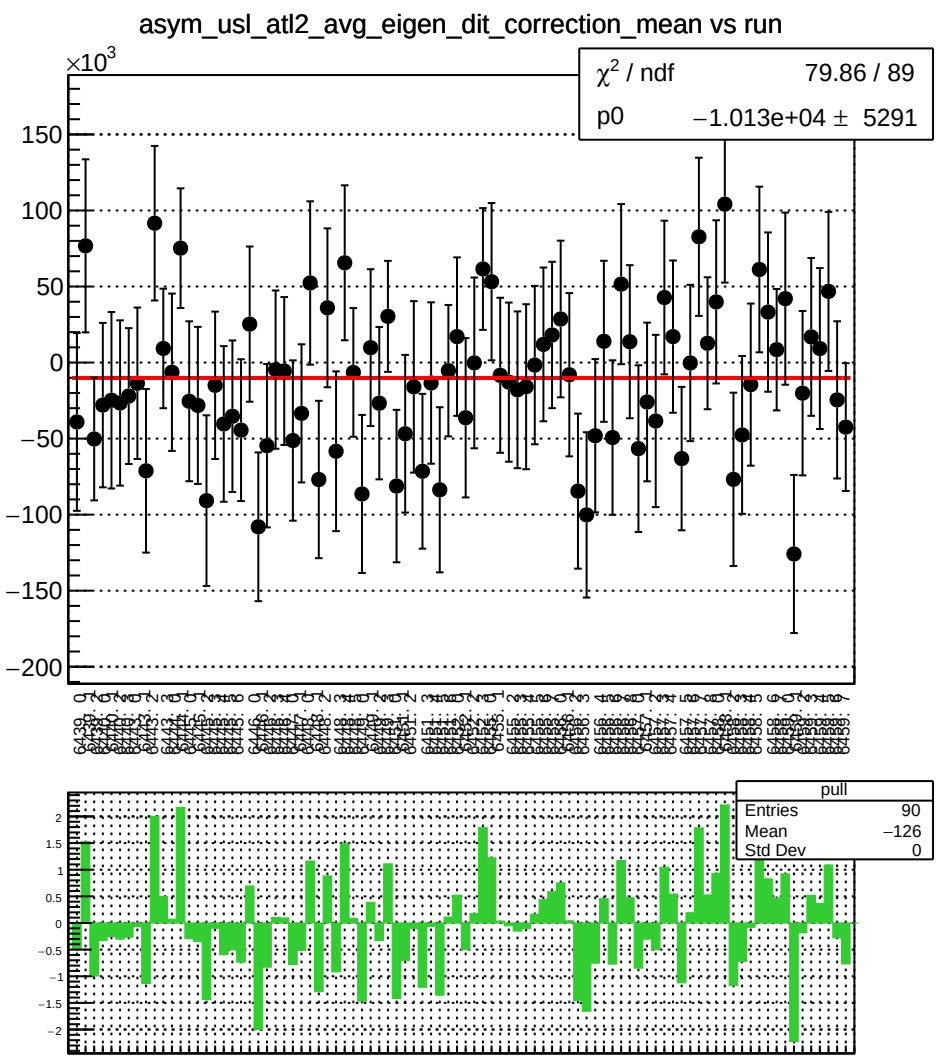

pull1D
Entries 90
Mean −0.017
Std Dev 0.9418
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

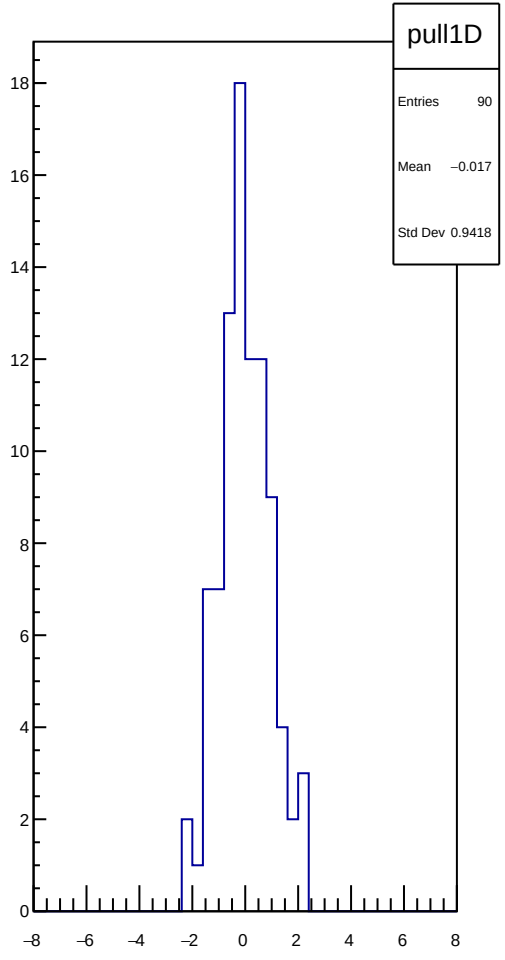

asym_usl_atl2_avg_dit_correction_rms vs run
χ² / ndf 2667 / 89
p0 4990 ± 3.741
5600
5400
5200
5000
4800
4600
4400

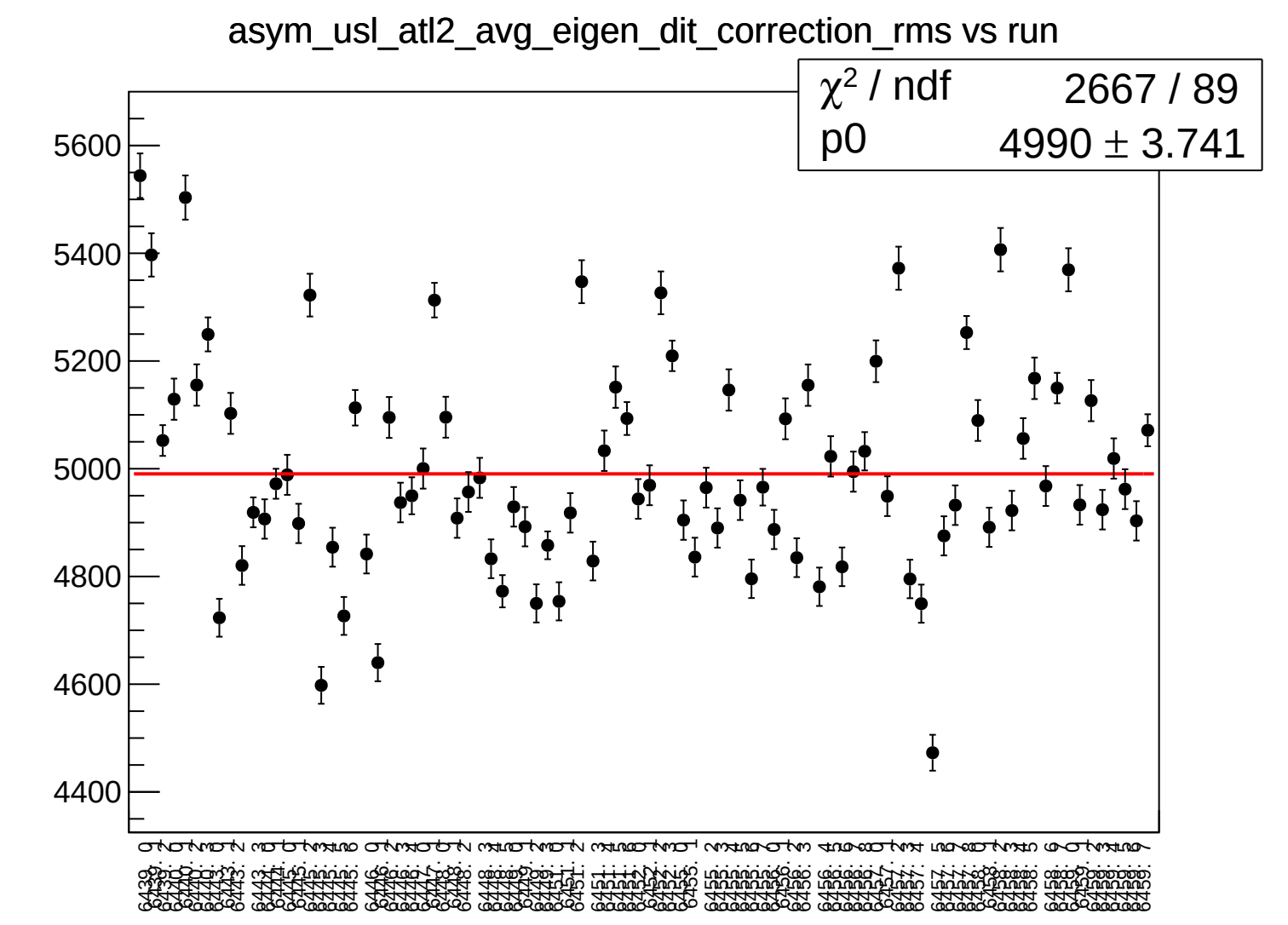

eigen_dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 93.15 / 89
p0 1098 ± 1733
pull
Entries 90
Mean 2496
Std Dev 0

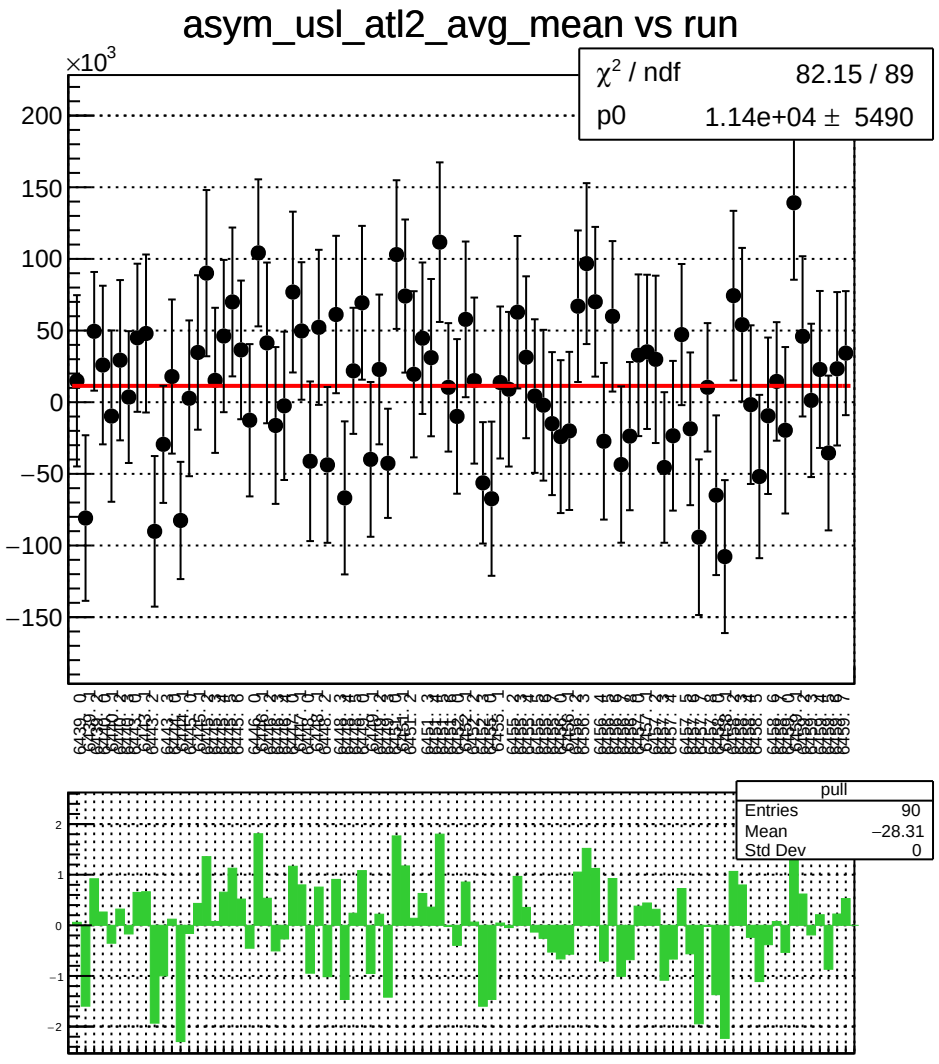

pull1D
Entries 90
Mean 0.002247
Std Dev 1.017

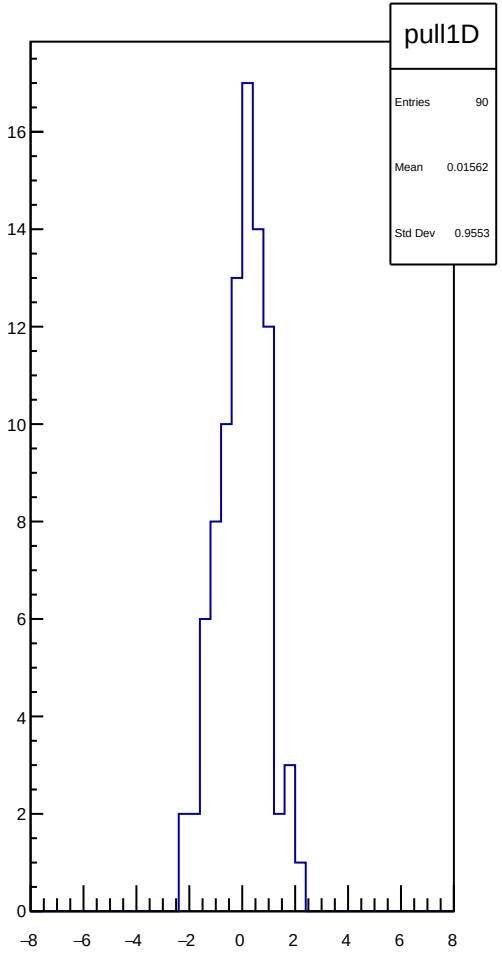

eigen_dit_asym_usl_atl2_avg_rms vs run
χ^2 / ndf 255.8 / 89
p0 1635 ± 1.225
1760
1740
1720
1700
1680
1660
1640
1620
1600
1580

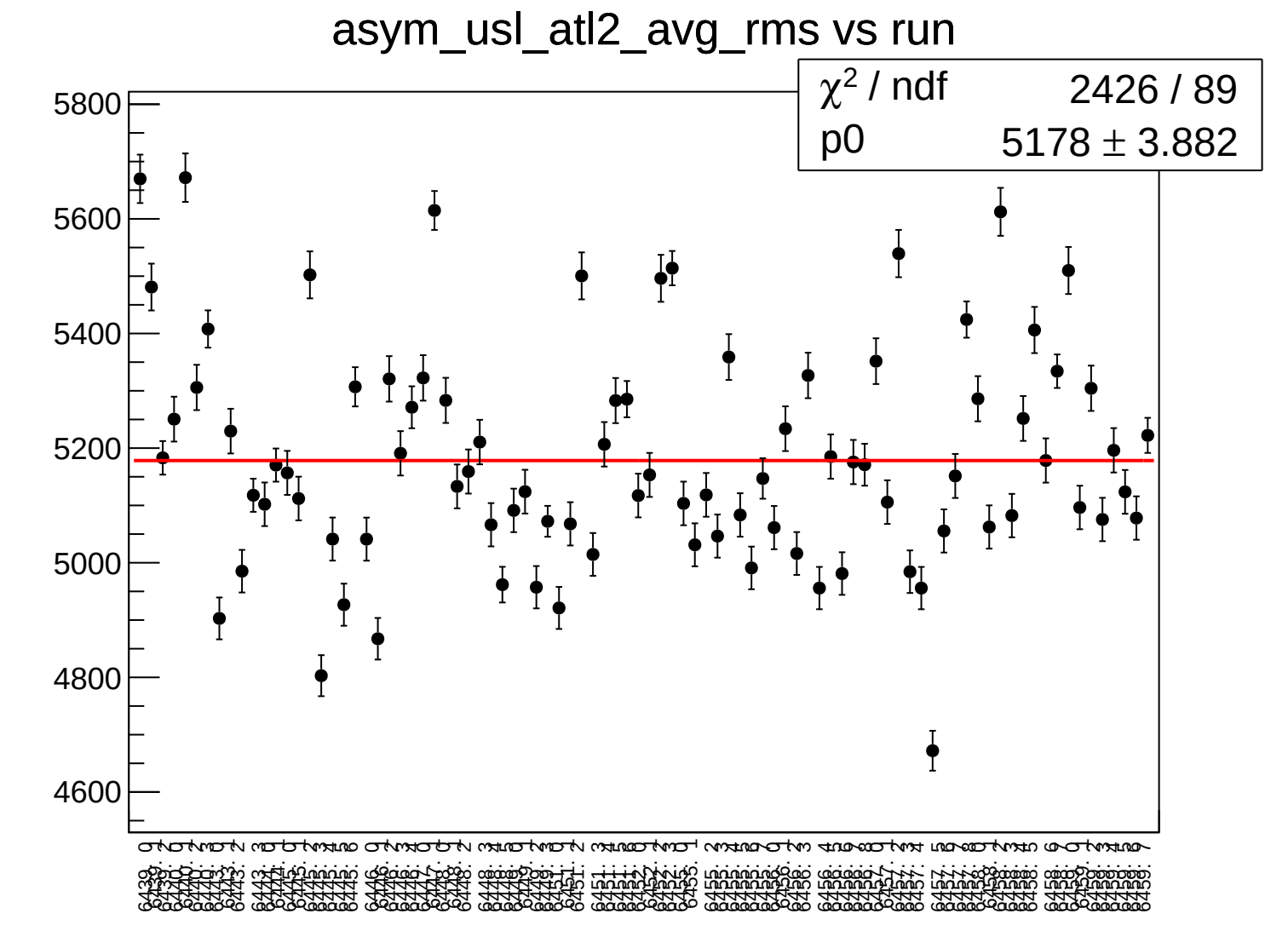

asym_usl_atl2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 79.86 / 89
p0 −1.013e+04 ± 5291
150
100
50
0
−50
−100
−150
−200
pull
Entries 90
Mean −126
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

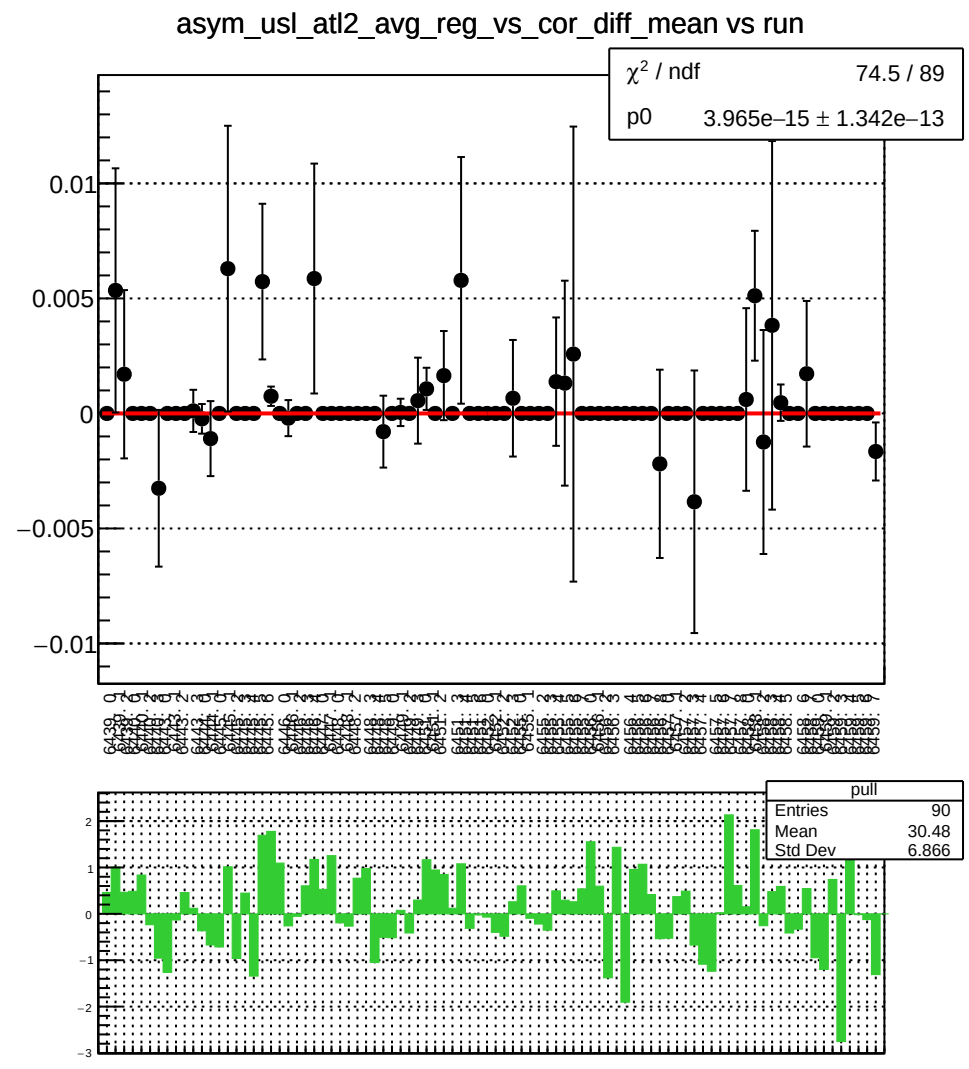

pull1D
Entries 90
Mean −0.017
Std Dev 0.9418
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

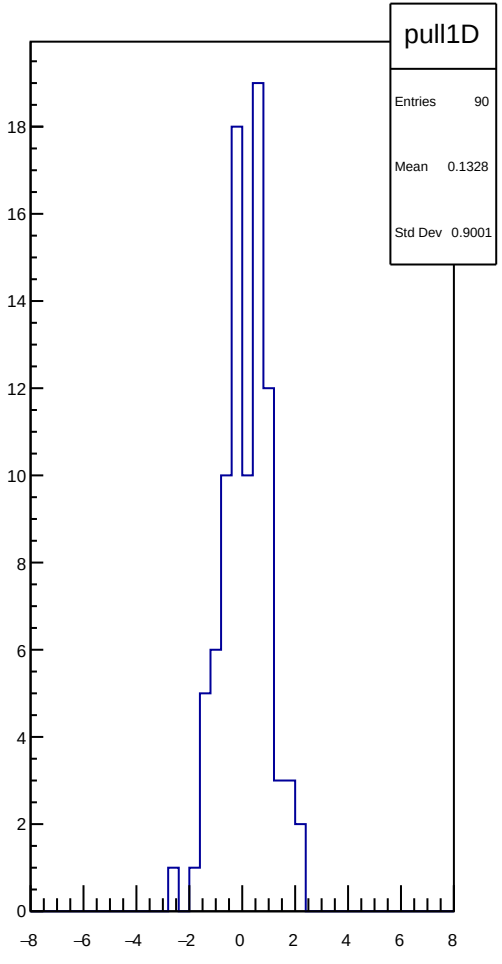

asym_usl_atl2_avg_eigen_dit_correction_rms vs run
χ² / ndf 2667 / 89
p0 4990 ± 3.741
5600
5400
5200
5000
4800
4600
4400

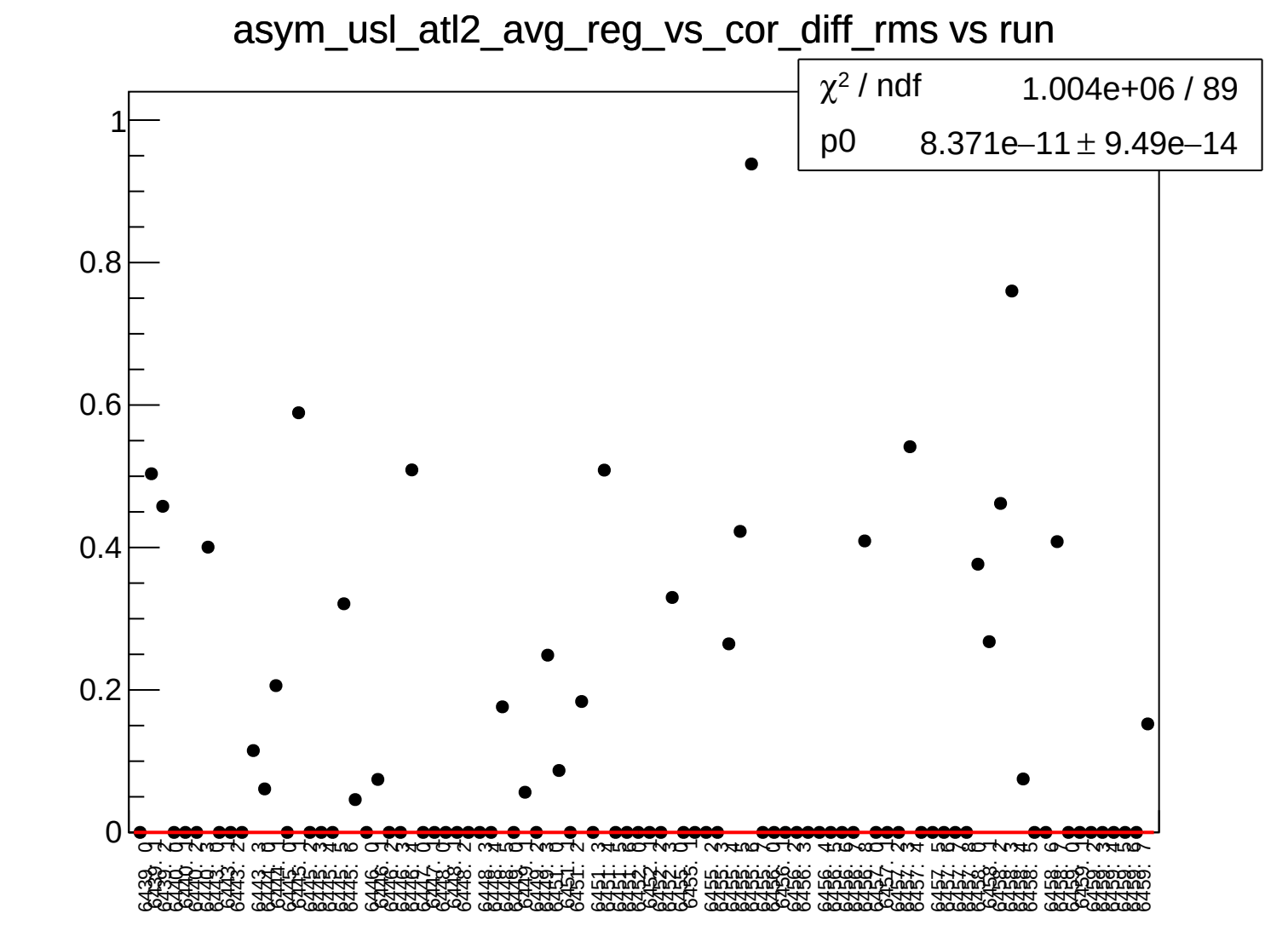

asym_usl_atl2_avg_mean vs run
×10^3
χ² / ndf 82.15 / 89
p0 1.14e+04 ± 5490
200
150
100
50
0
−50
−100
−150
pull
Entries 90
Mean −28.31
Std Dev 0
2
1
0
−1
−2

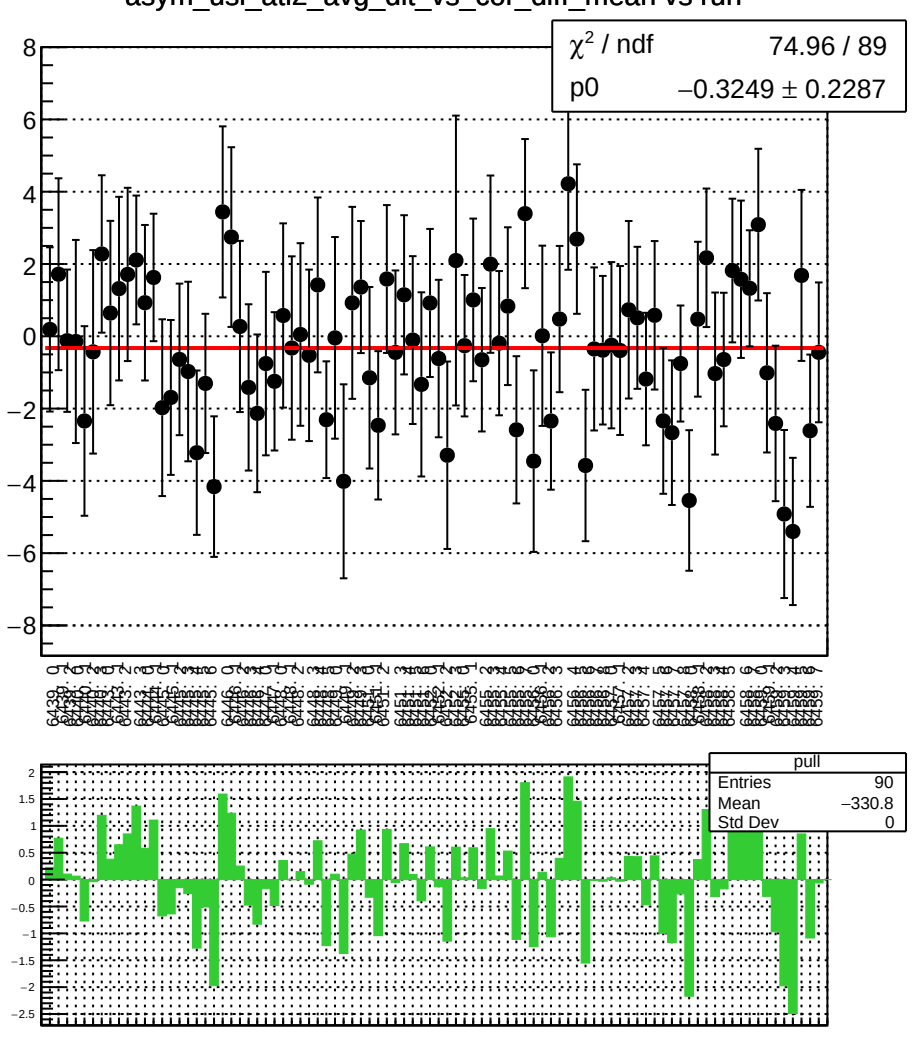

pull1D
Entries 90
Mean 0.01562
Std Dev 0.9553
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

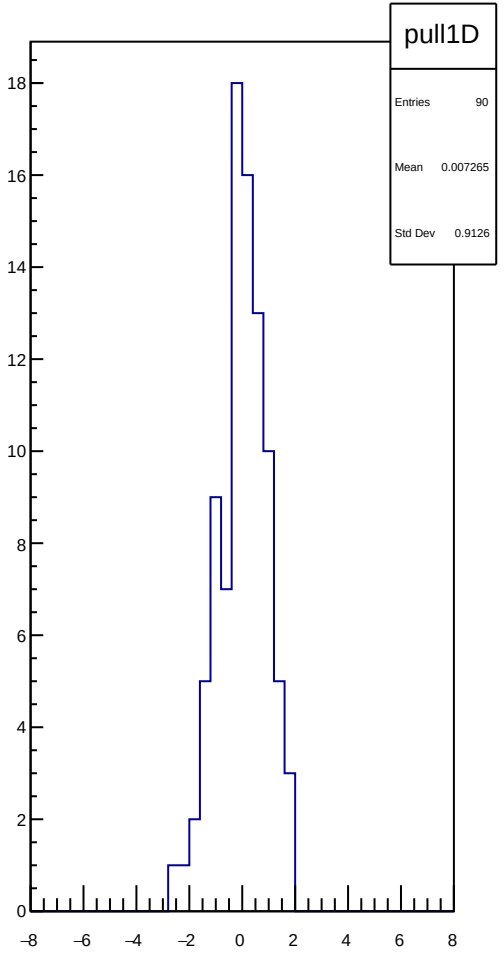

asym_usl_atl2_avg_rms vs run
χ² / ndf 2426 / 89
p0 5178 ± 3.882
5800
5600
5400
5200
5000
4800
4600

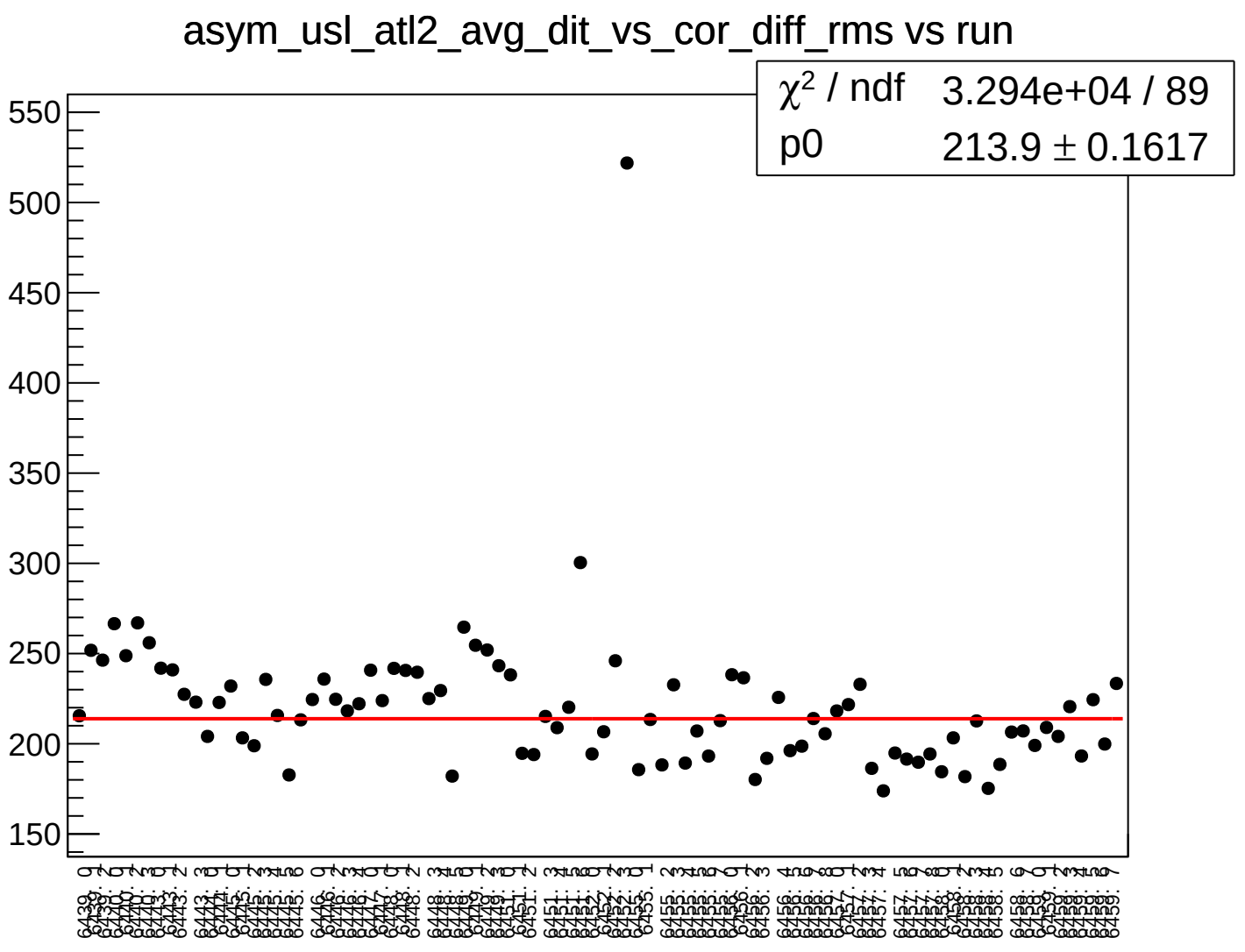

asym_usl_atl2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 74.5 / 89
p0 3.965e−15 ± 1.342e−13
0.01
0.005
0
−0.005
−0.01
pull
Entries 90
Mean 30.48
Std Dev 6.866
2
1
0
−1
−2
−3

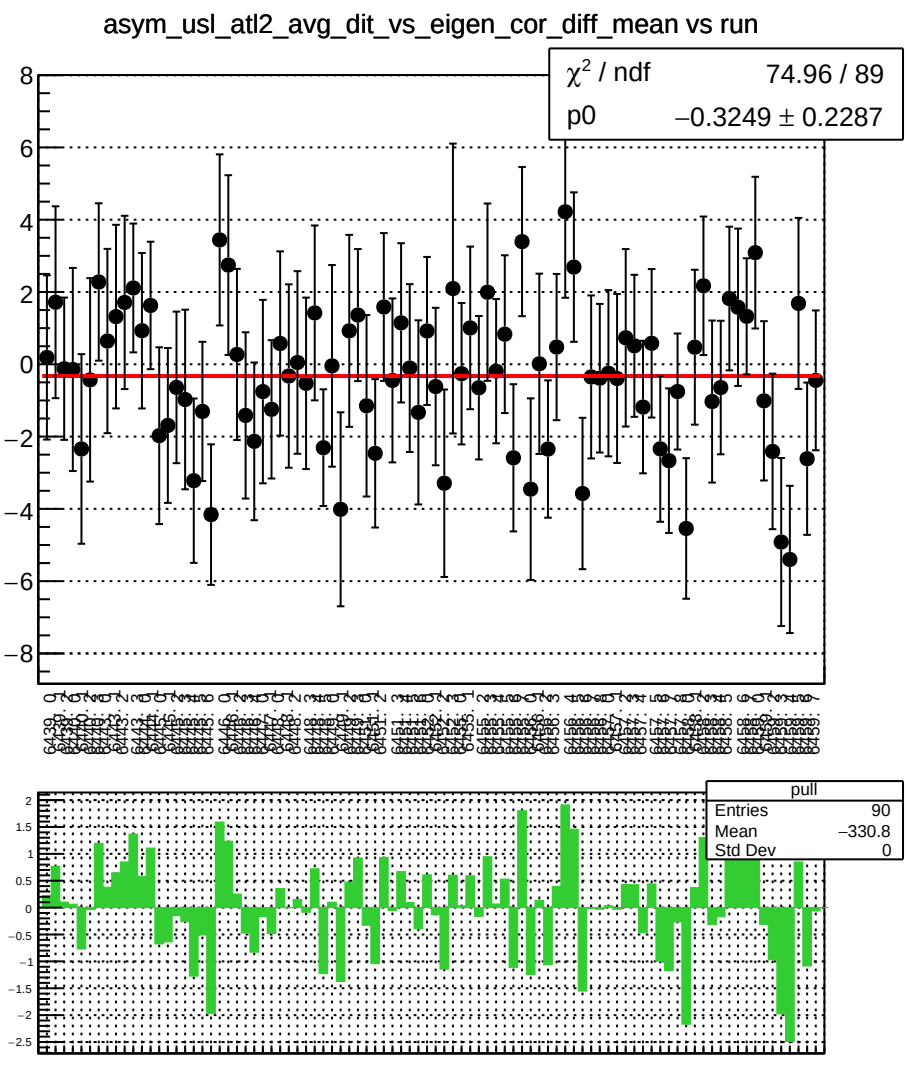

pull1D
Entries 90
Mean 0.1328
Std Dev 0.9001
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

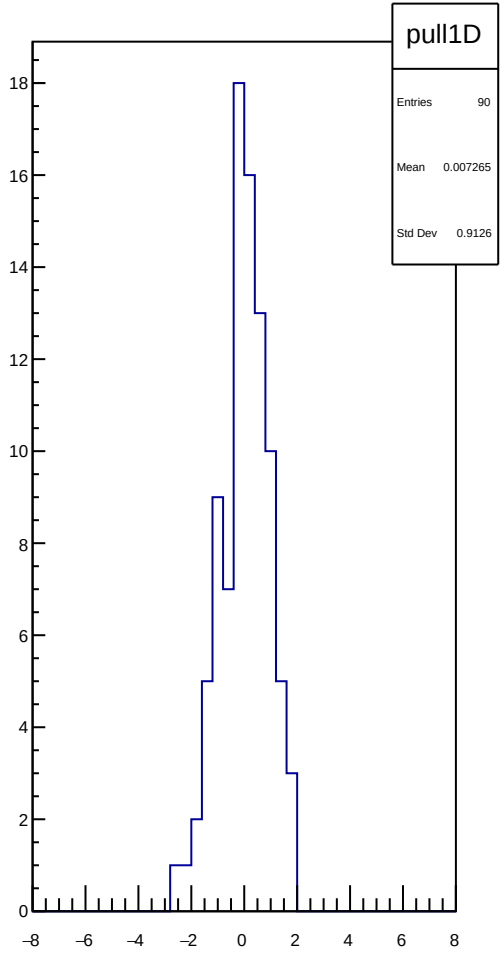

asym_usl_atl2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.004e+06 / 89
p0 8.371e−11 ± 9.49e−14
1
0.8
0.6
0.4
0.2
0

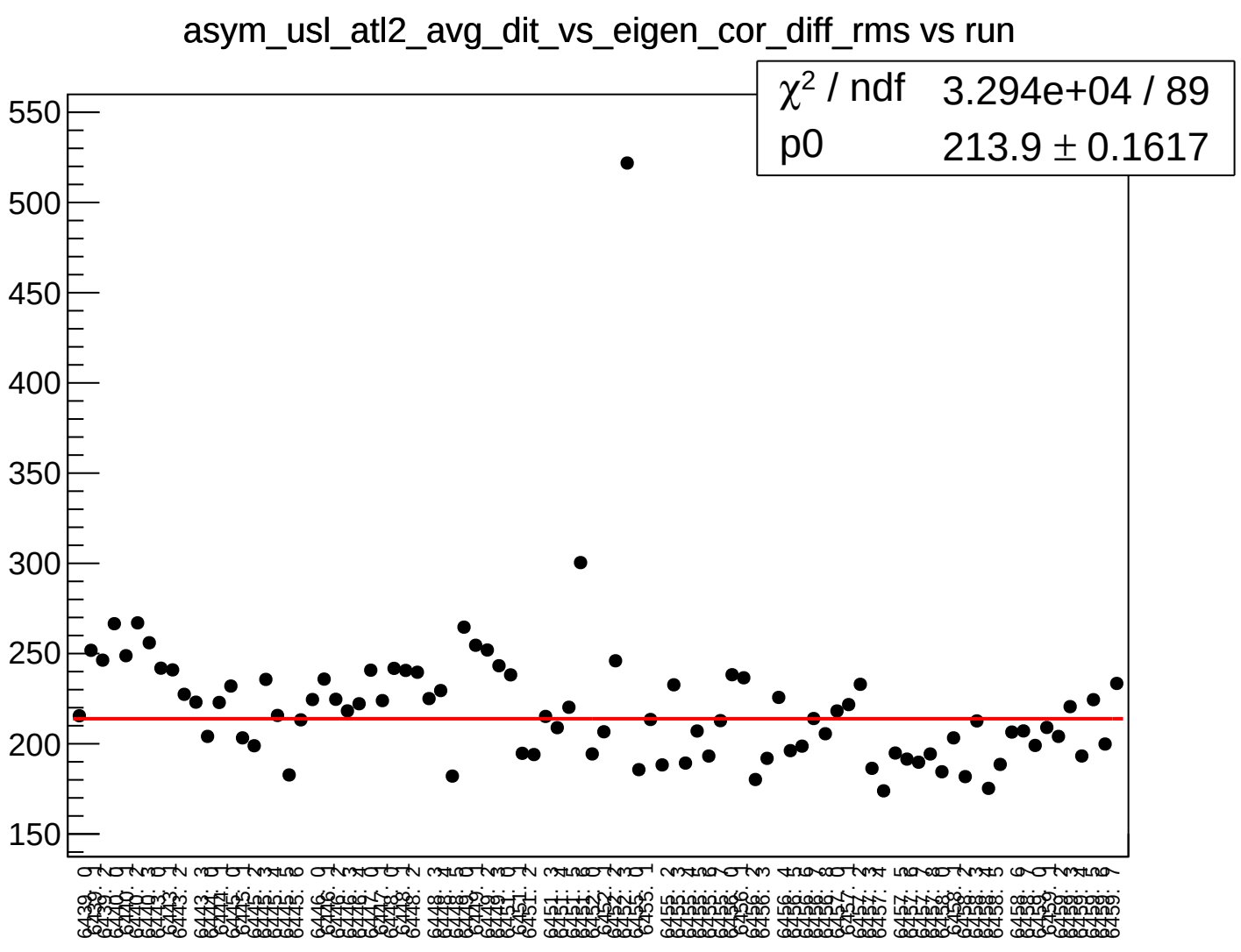

asym_usl_atl2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 74.96 / 89
p0 −0.3249 ± 0.2287
pull
Entries 90
Mean −330.8
Std Dev 0

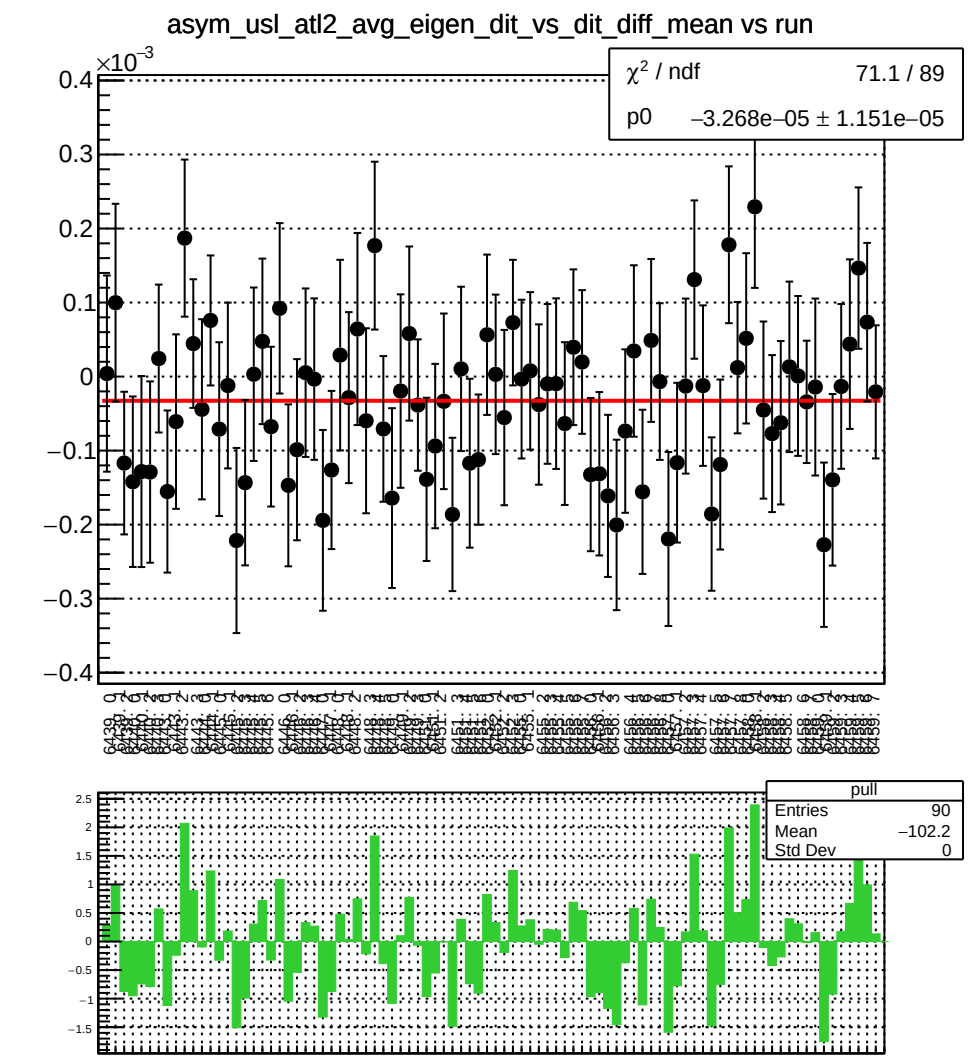

pull1D
Entries 90
Mean 0.007265
Std Dev 0.9126

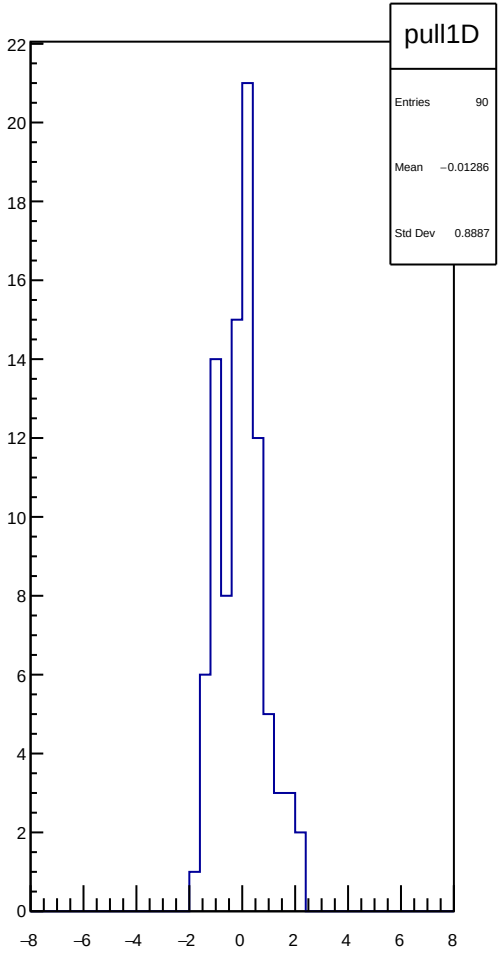

asym_usl_atl2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.294e+04 / 89
p0 213.9 ± 0.1617
550
500
450
400
350
300
250
200
150

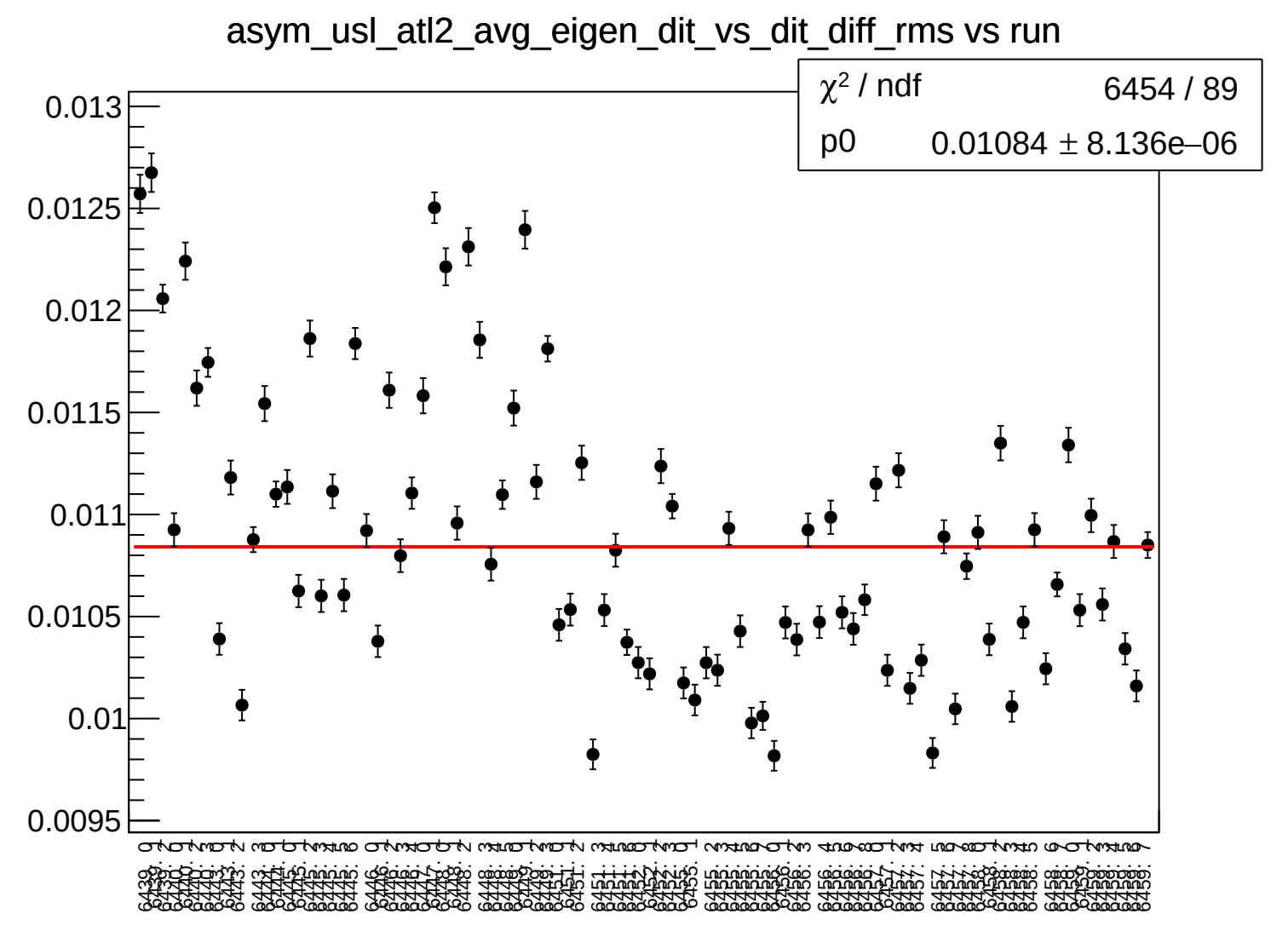

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.96 / 89
p0 −0.3249 ± 0.2287
pull
Entries 90
Mean −330.8
Std Dev 0

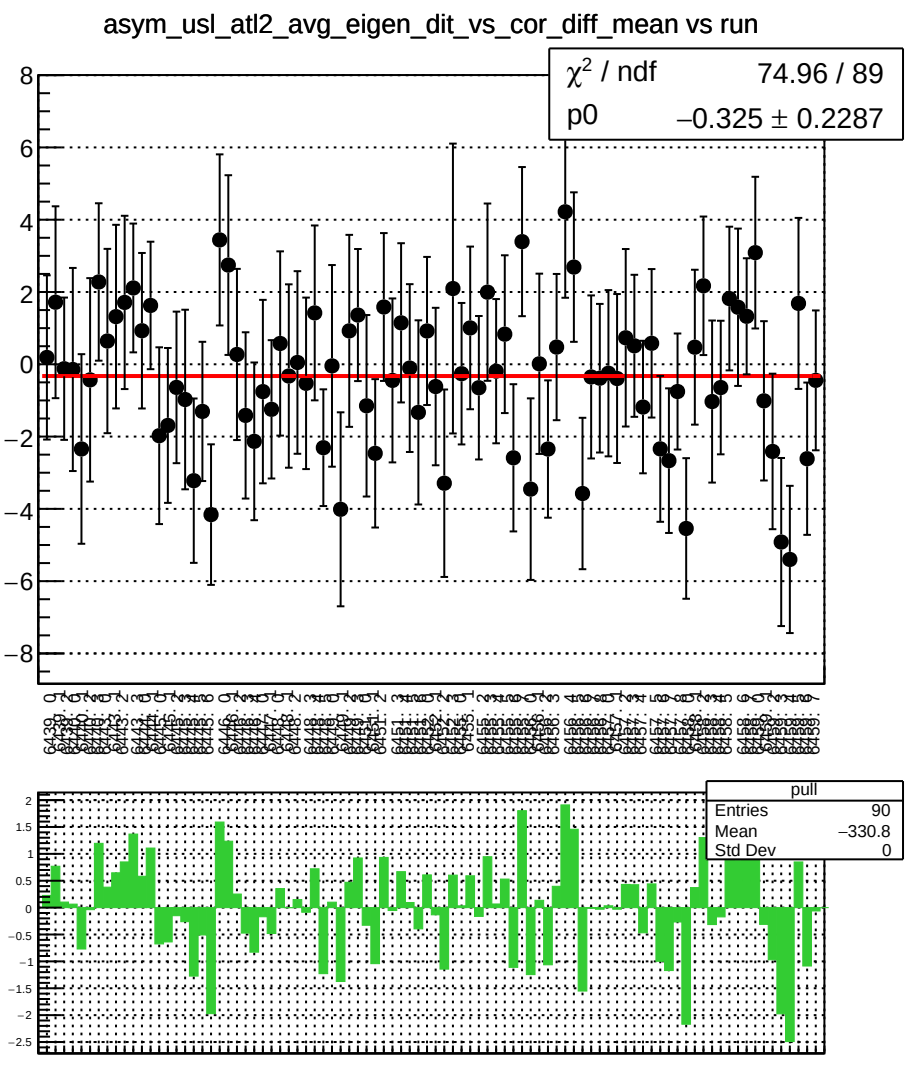

pull1D
Entries 90
Mean 0.007265
Std Dev 0.9126

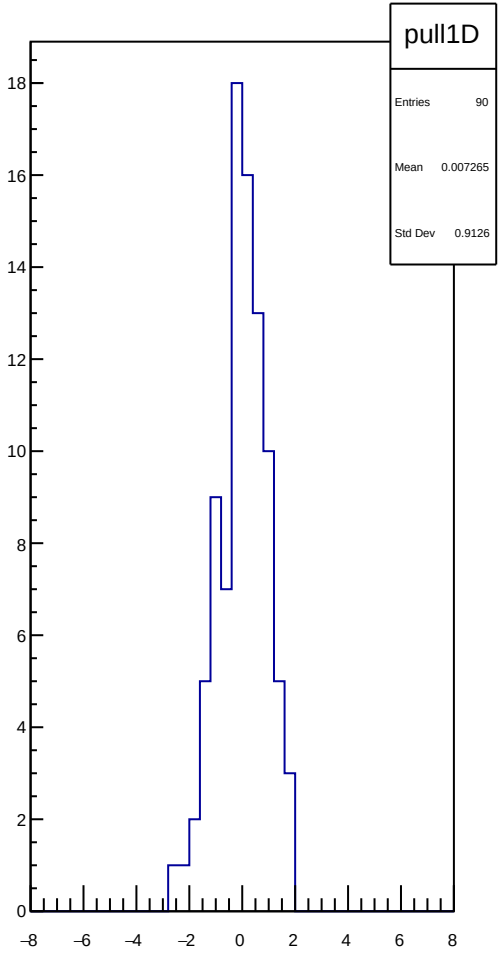

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.294e+04 / 89
p0 213.9 ± 0.1617
550
500
450
400
350
300
250
200
150

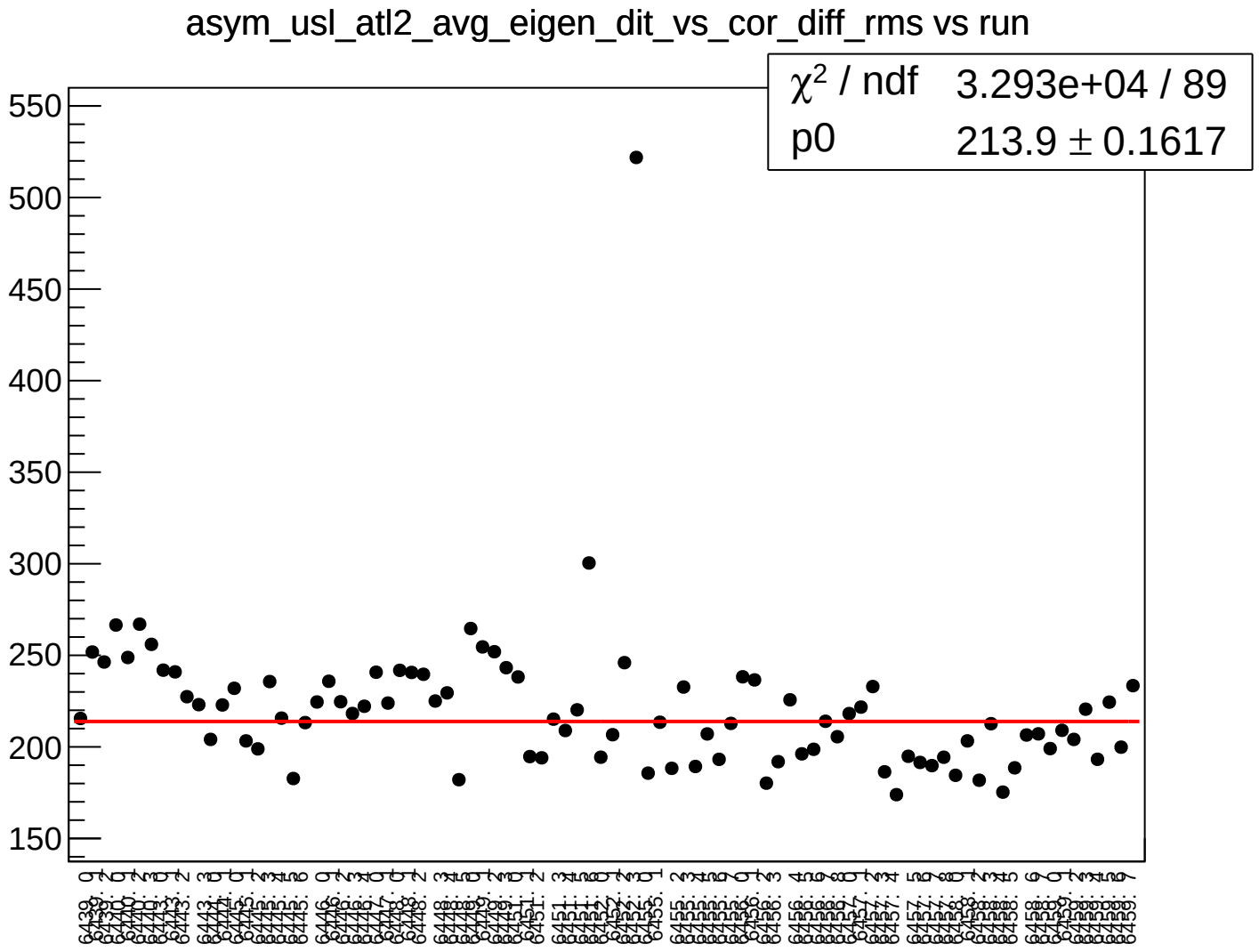

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 71.1 / 89
p0 −3.268e−05 ± 1.151e−05
pull
Entries 90
Mean −102.2
Std Dev 0

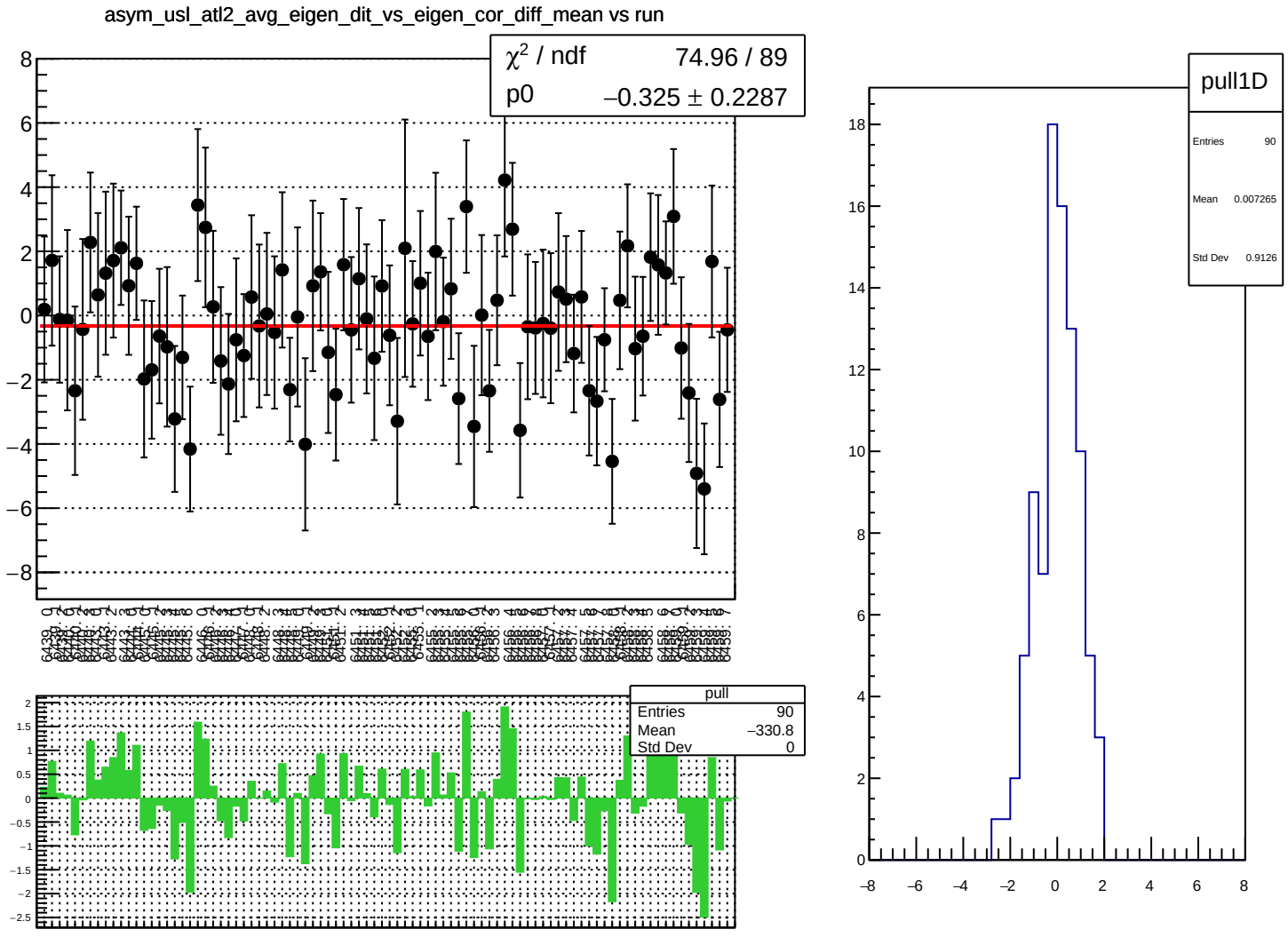

pull1D
Entries 90
Mean −0.01286
Std Dev 0.8887

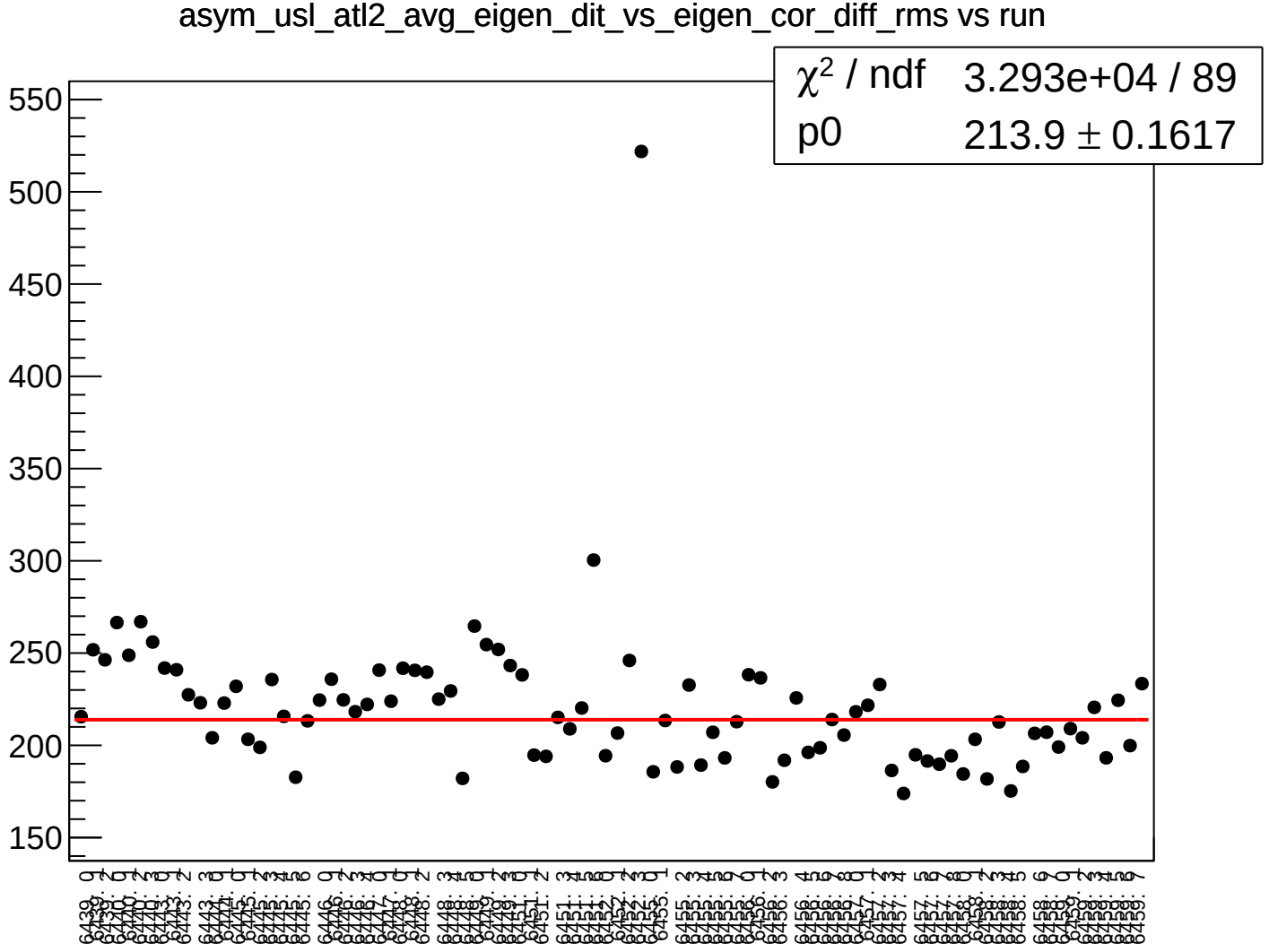

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6454 / 89
p0 0.01084 ± 8.136e–06
0.013
0.0125
0.012
0.0115
0.011
0.0105
0.01
0.0095

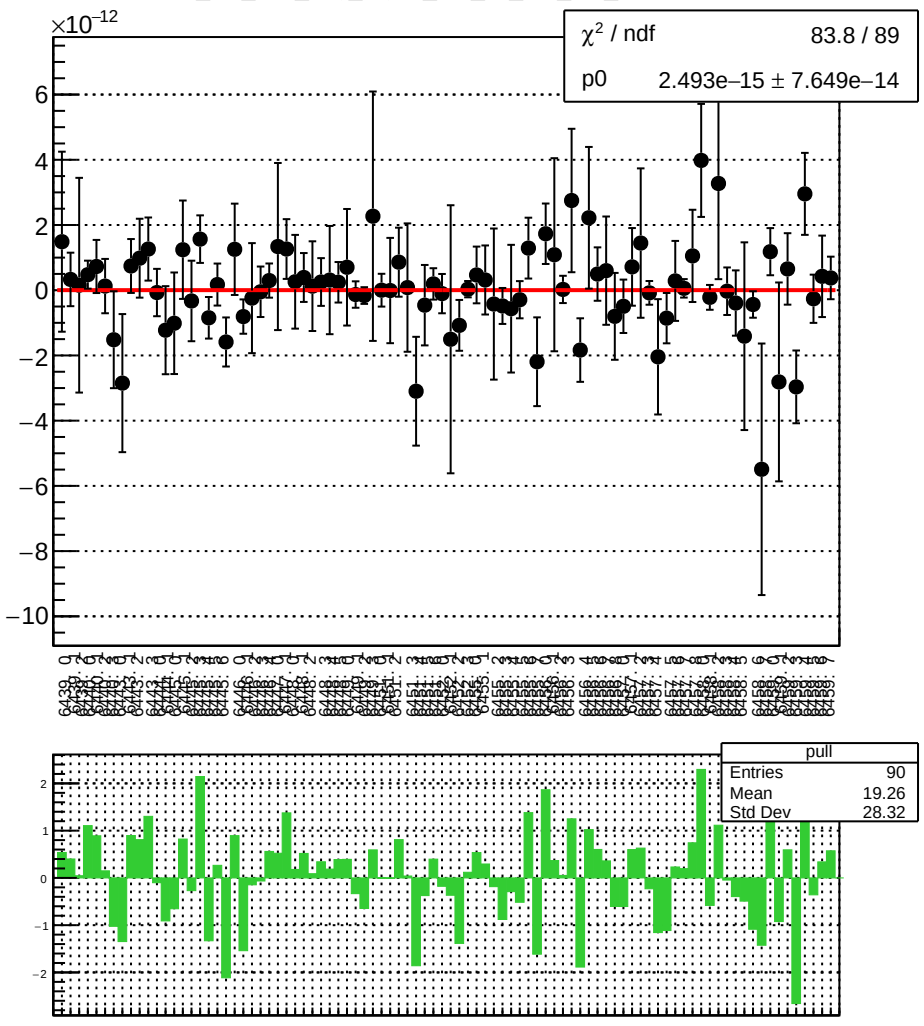

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 74.96 / 89
p0 −0.325 ± 0.2287
pull
Entries 90
Mean −330.8
Std Dev 0

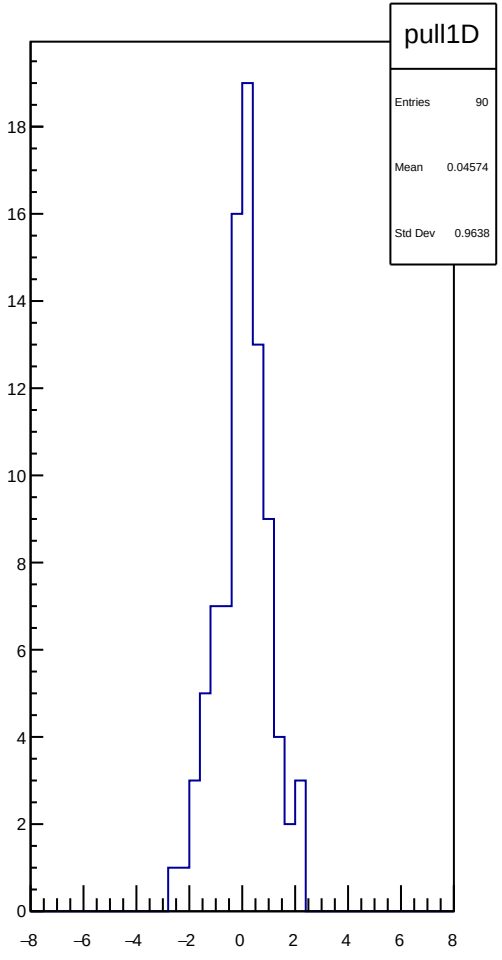

pull1D
Entries 90
Mean 0.007265
Std Dev 0.9126

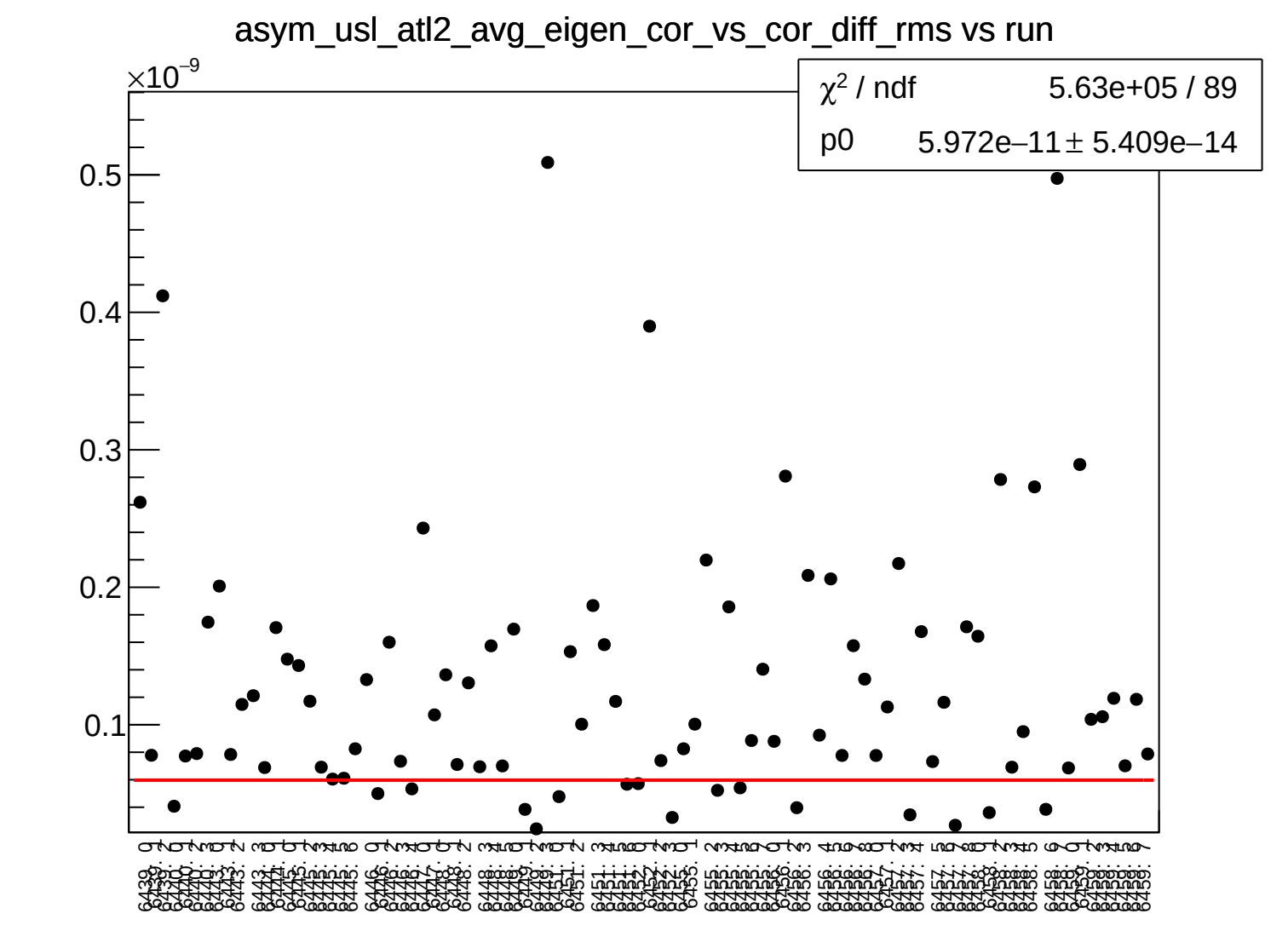

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.293e+04 / 89
p0 213.9 ± 0.1617
550
500
450
400
350
300
250
200
150

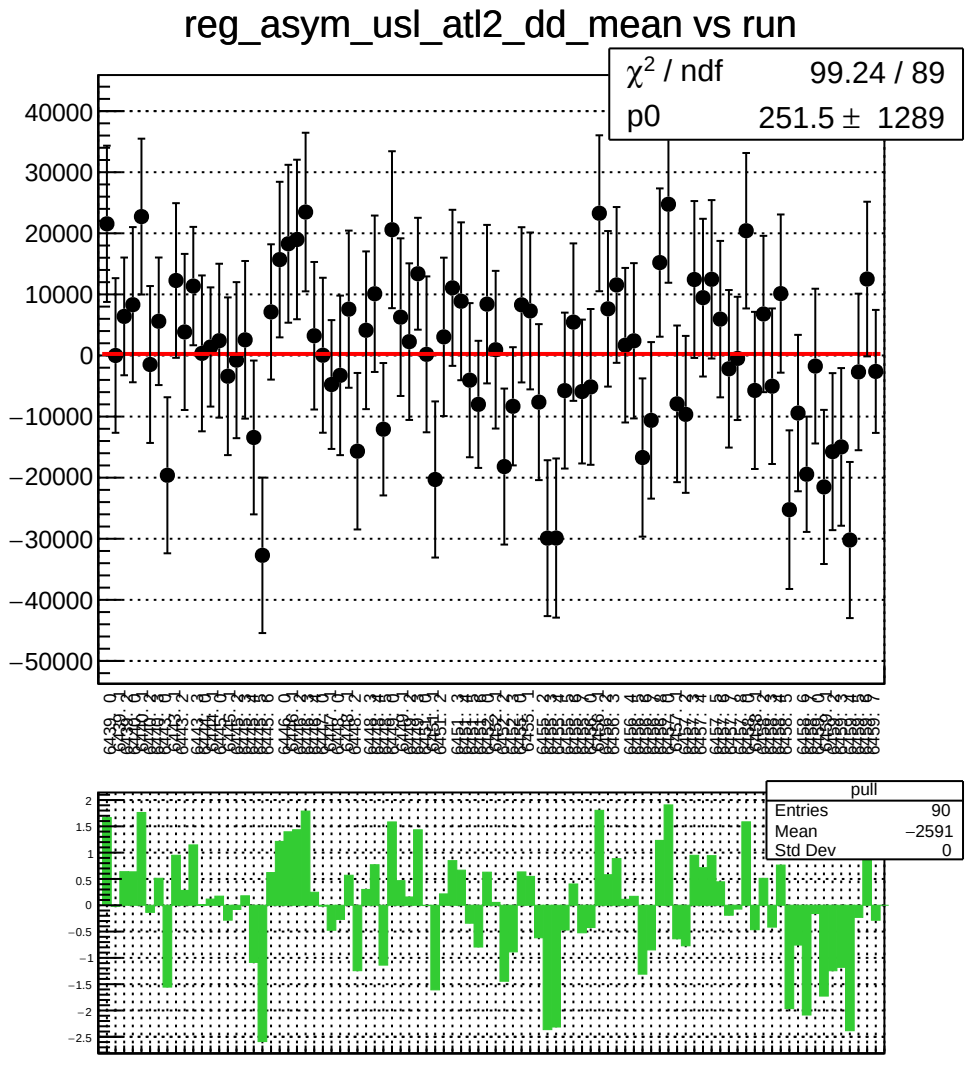

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.96 / 89
p0 −0.325 ± 0.2287
pull
Entries 90
Mean −330.8
Std Dev 0
pull1D
Entries 90
Mean 0.007265
Std Dev 0.9126

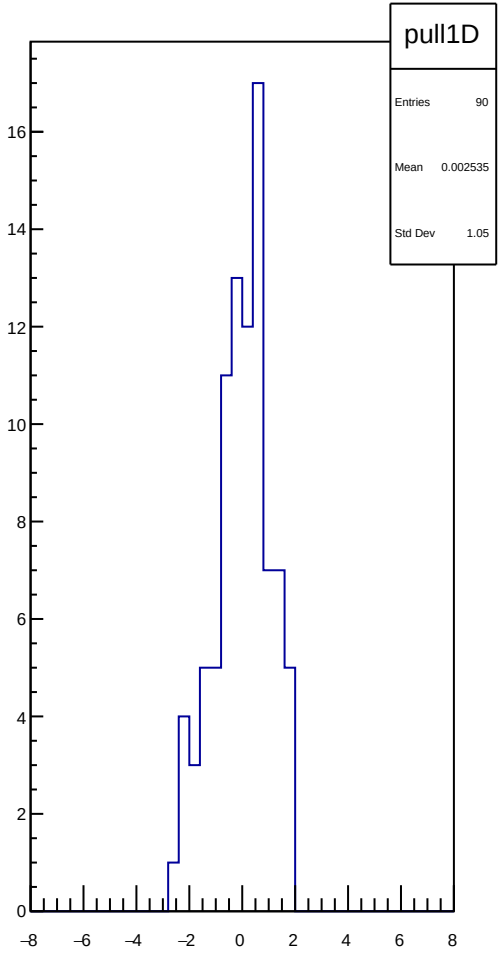

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.293e+04 / 89
p0 213.9 ± 0.1617
550
500
450
400
350
300
250
200
150

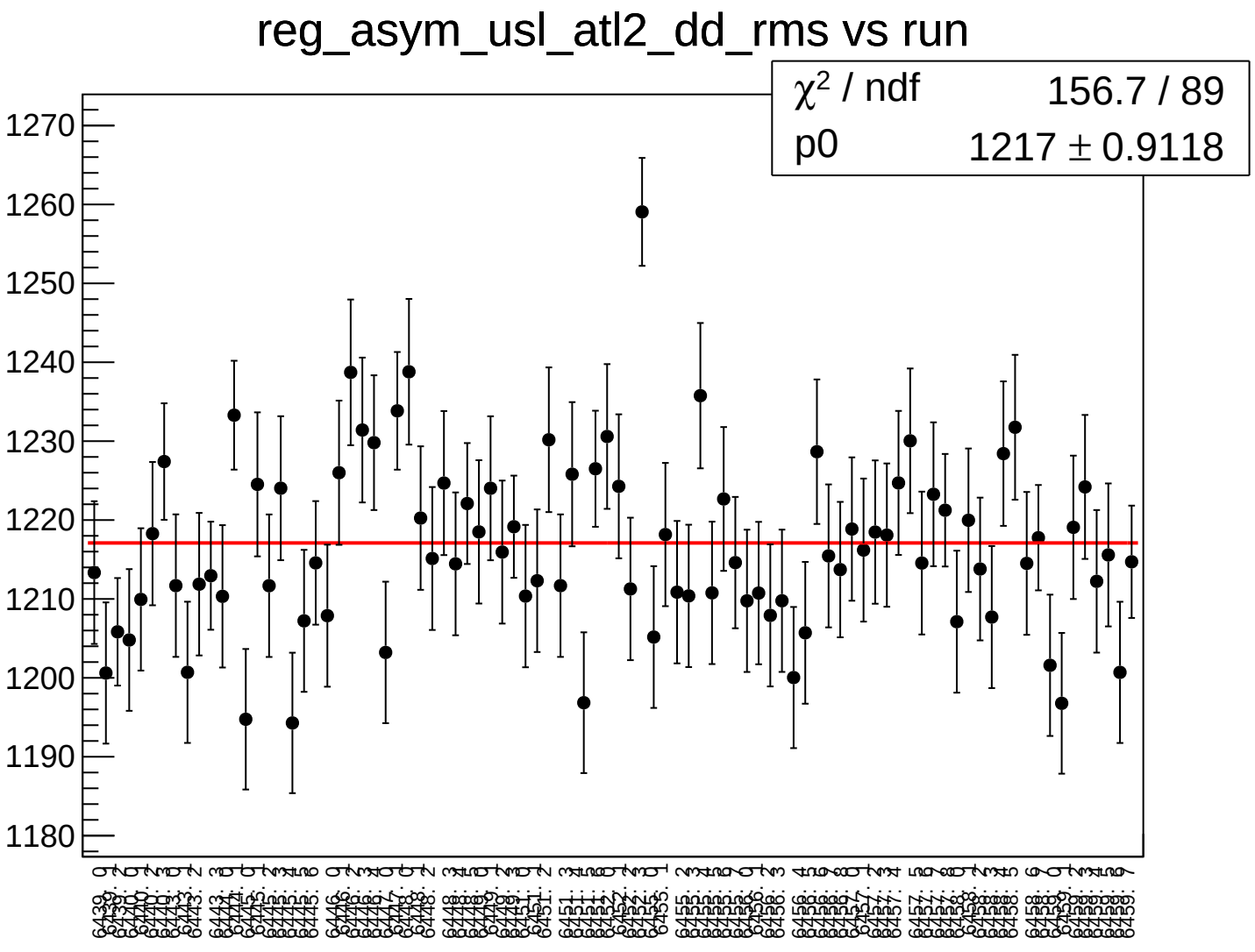

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.8 / 89
p0 2.493e−15 ± 7.649e−14
pull
Entries 90
Mean 19.26
Std Dev 28.32

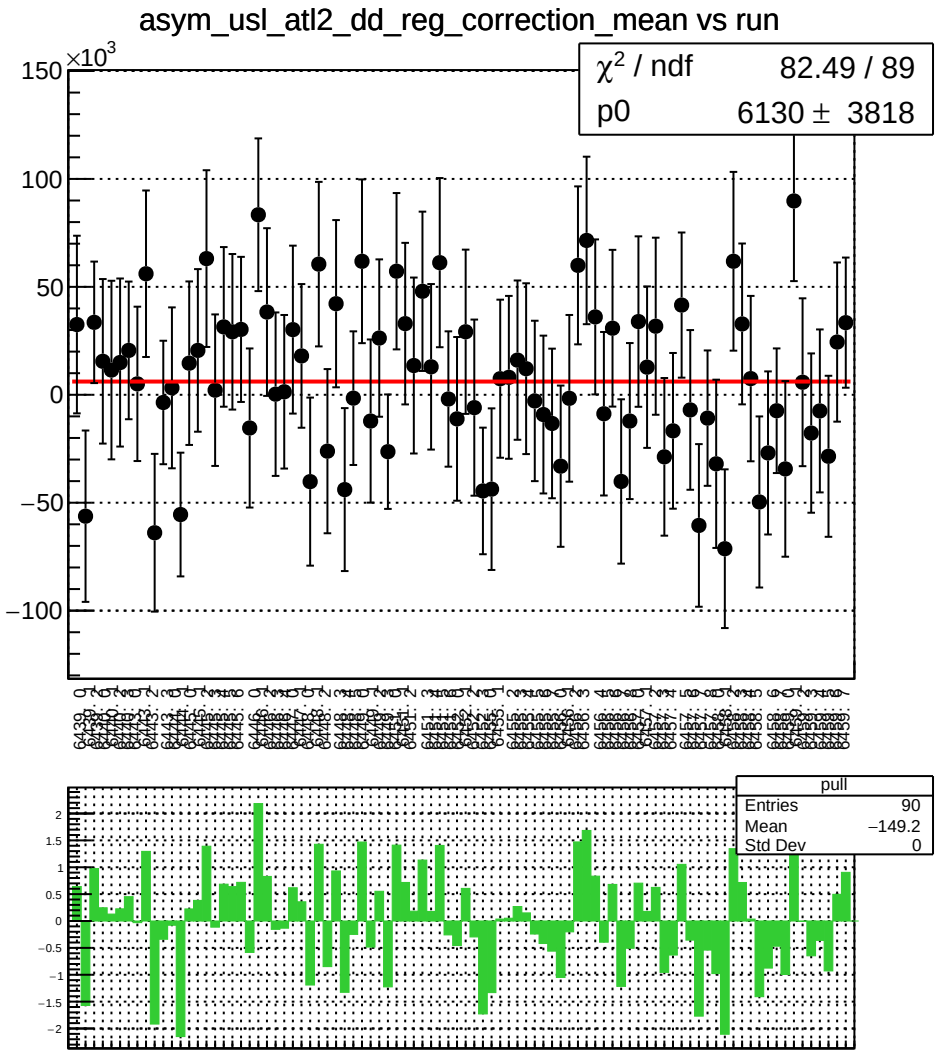

pull1D
Entries 90
Mean 0.04574
Std Dev 0.9638

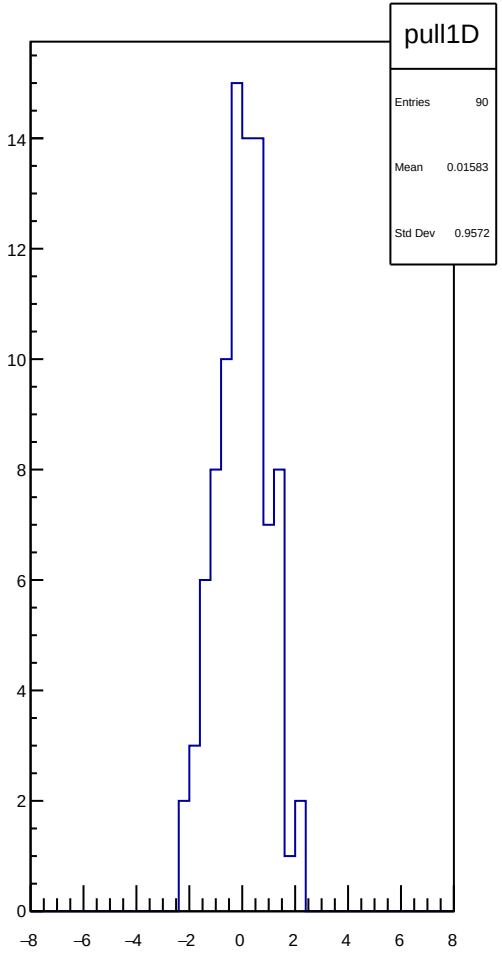

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.63e+05 / 89
p0 5.972e−11 ± 5.409e−14
0.5
0.4
0.3
0.2
0.1

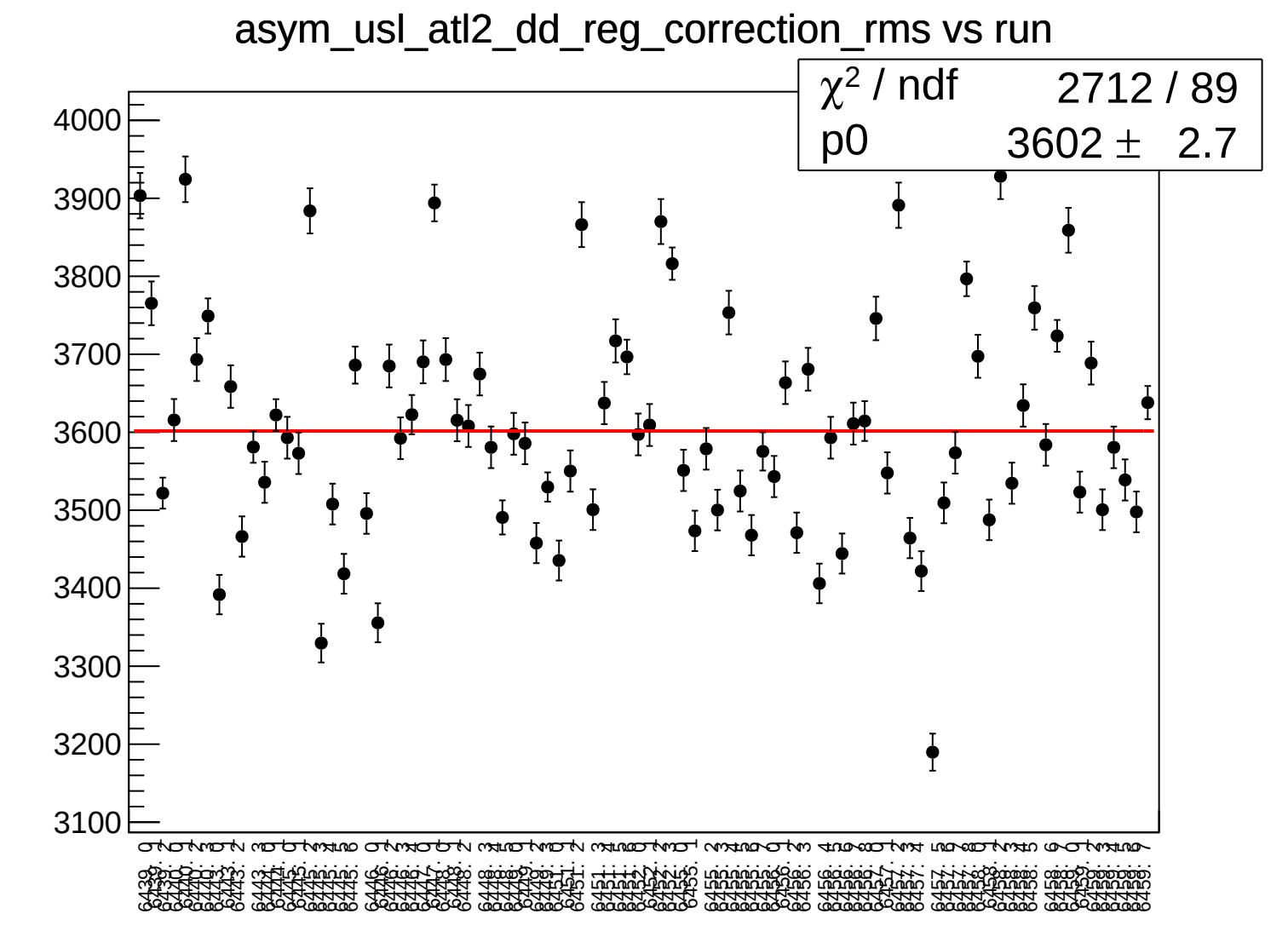

reg_asym_usl_atl2_dd_mean vs run
χ² / ndf 99.24 / 89
p0 251.5 ± 1289
pull
Entries 90
Mean −2591
Std Dev 0

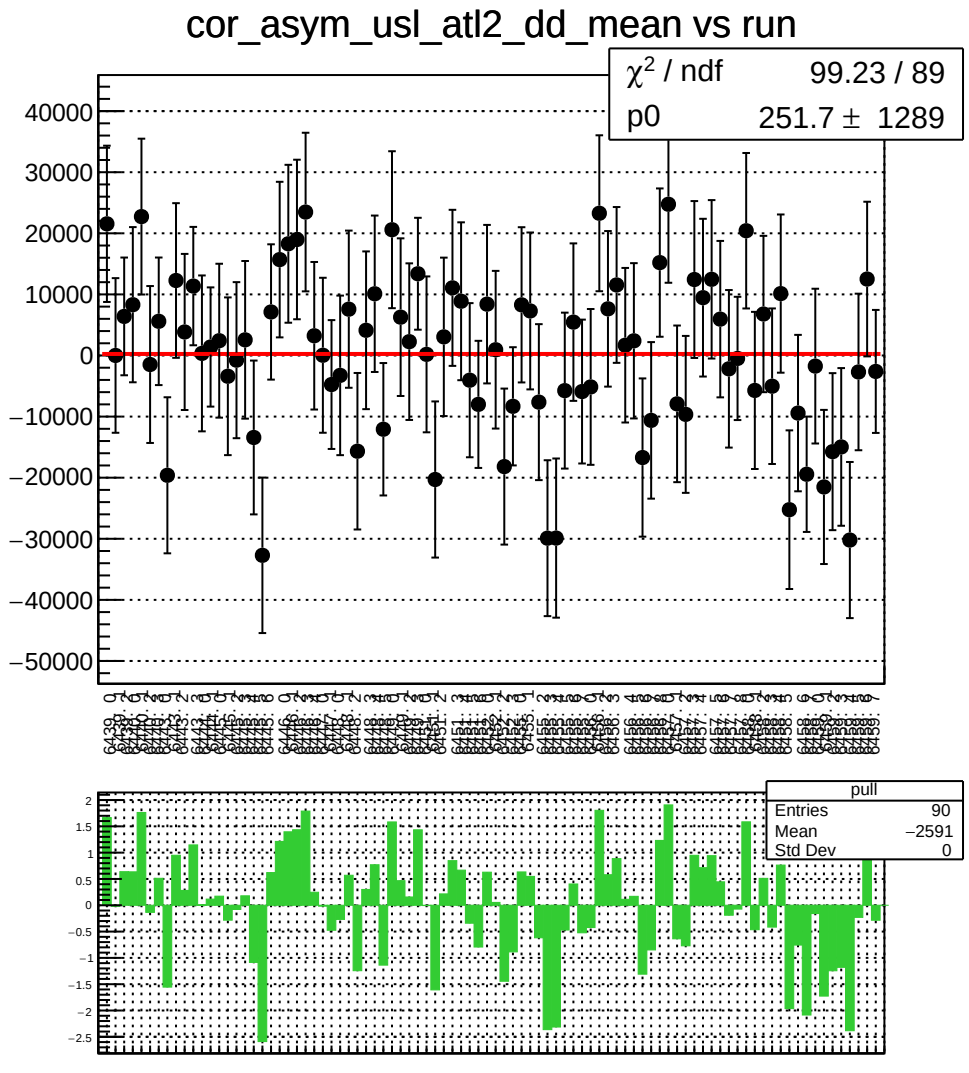

pull1D
Entries 90
Mean 0.002535
Std Dev 1.05

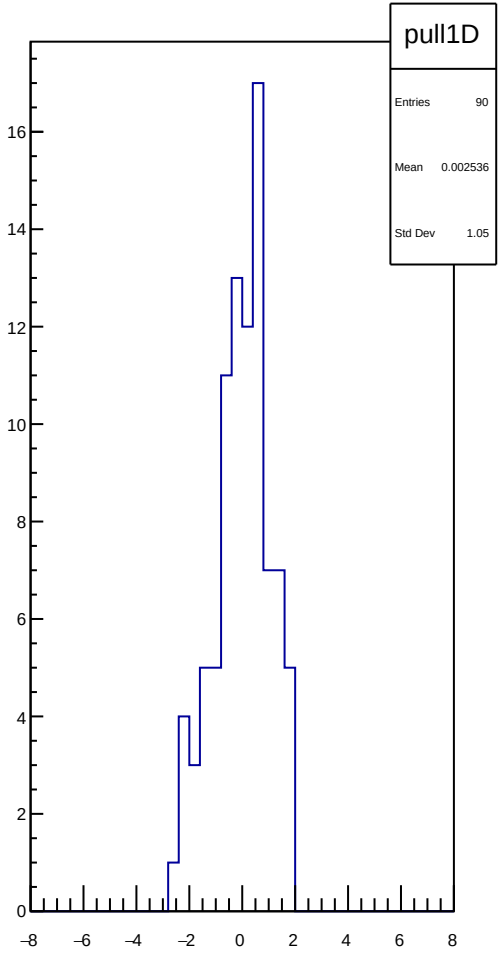

reg_asym_usl_atl2_dd_rms vs run
χ² / ndf 156.7 / 89
p0 1217 ± 0.9118
1270
1260
1250
1240
1230
1220
1210
1200
1190
1180

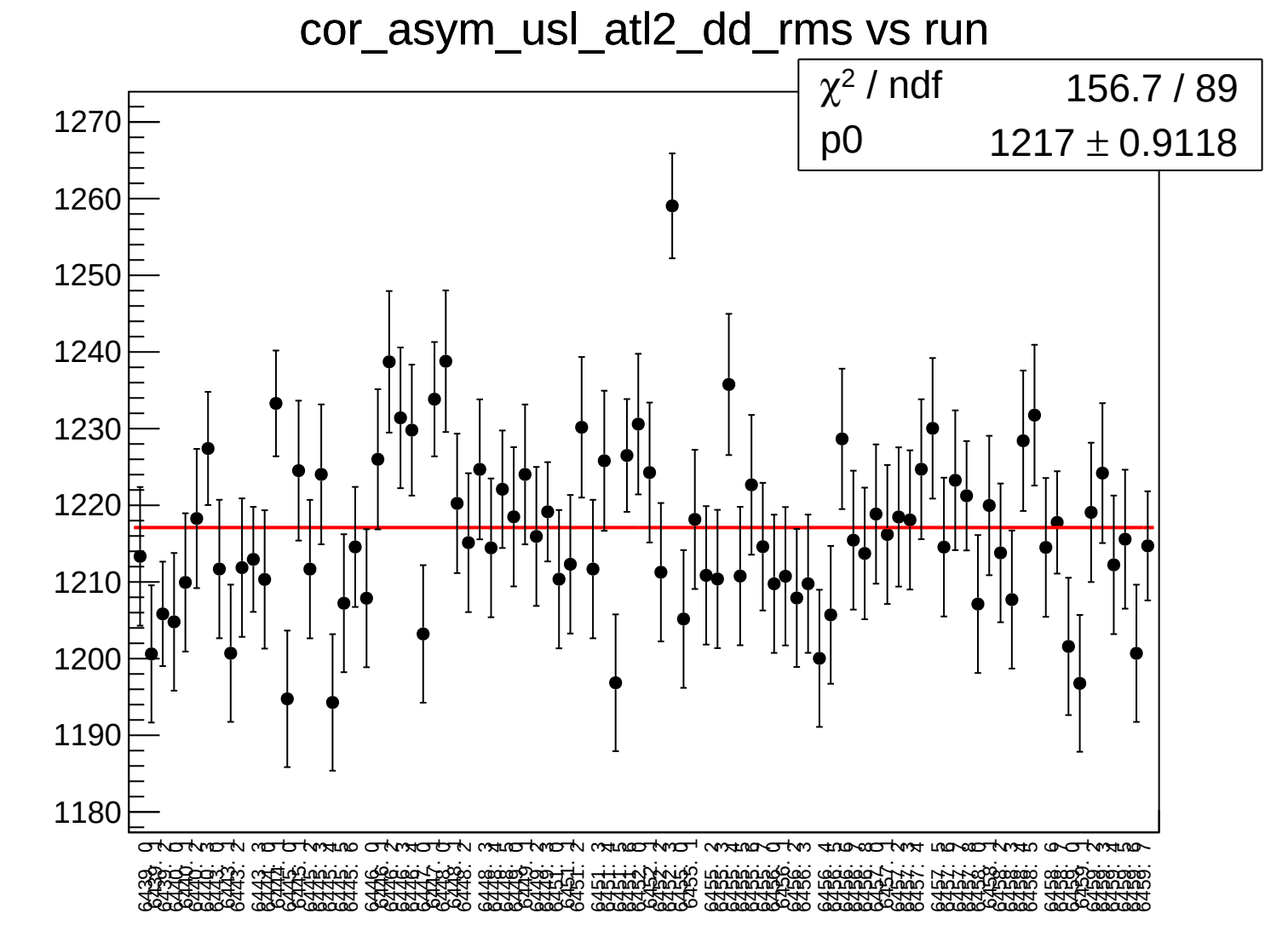

asym_usl_atl2_dd_reg_correction_mean vs run
χ² / ndf 82.49 / 89
p0 6130 ± 3818
×10³
150
100
50
0
−50
−100
pull
Entries 90
Mean −149.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

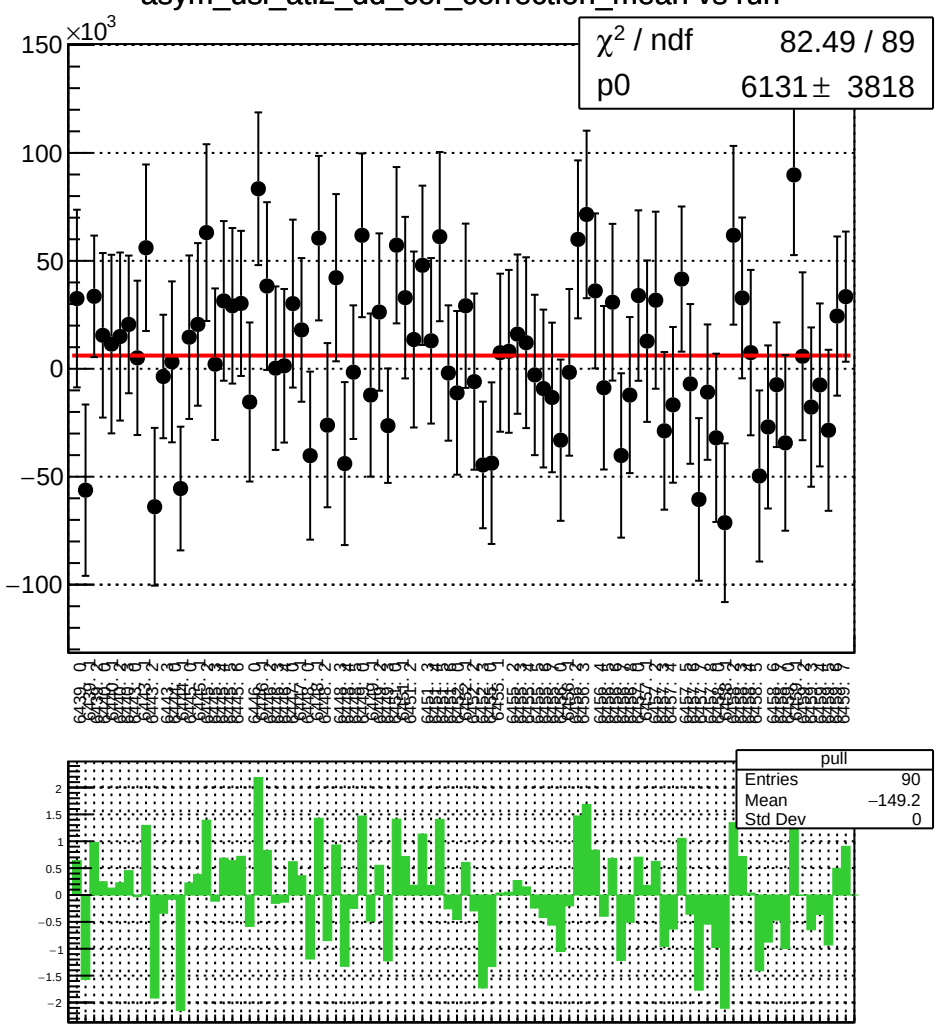

pull1D
Entries 90
Mean 0.01583
Std Dev 0.9572
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

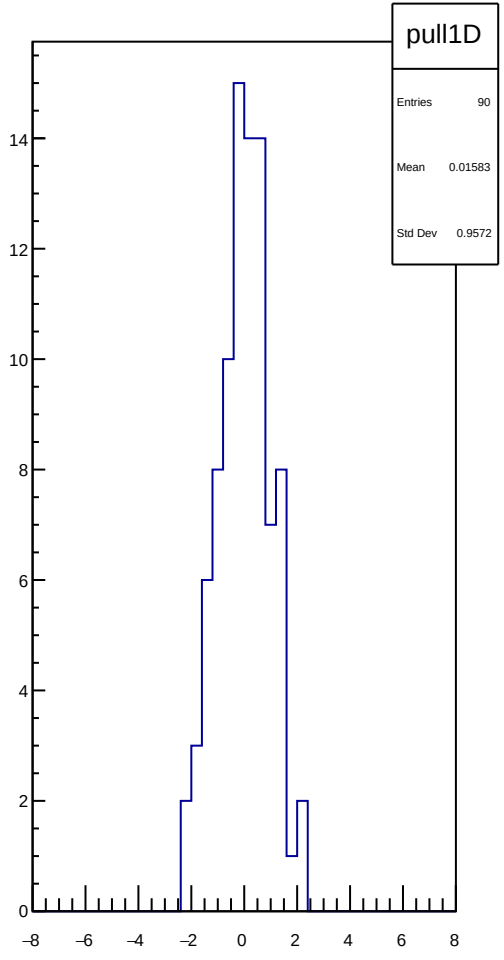

asym_usl_atl2_dd_reg_correction_rms vs run
χ² / ndf 2712 / 89
p0 3602 ± 2.7
4000
3900
3800
3700
3600
3500
3400
3300
3200
3100

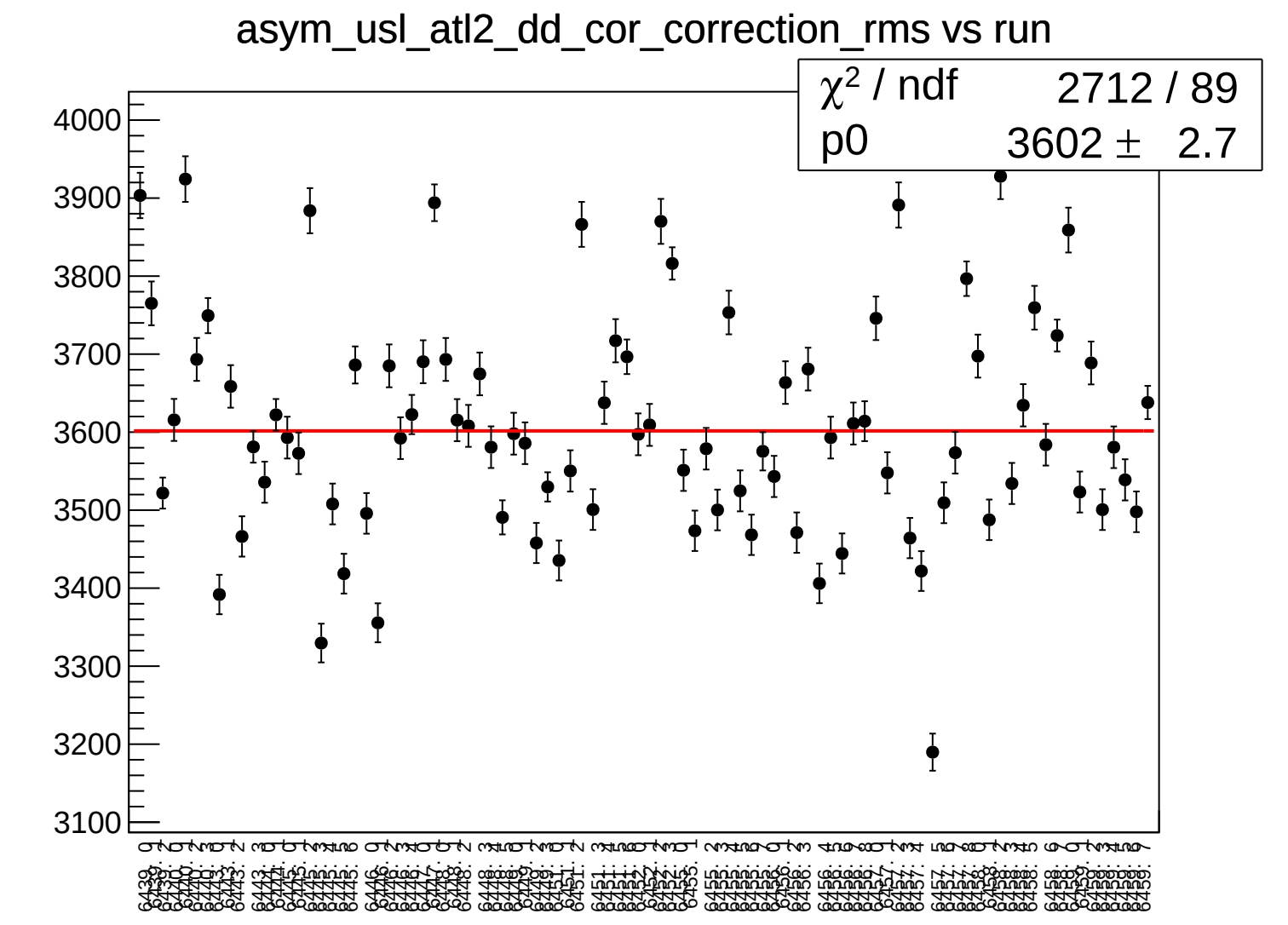

cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 99.23 / 89
p0 251.7 ± 1289
pull
Entries 90
Mean −2591
Std Dev 0

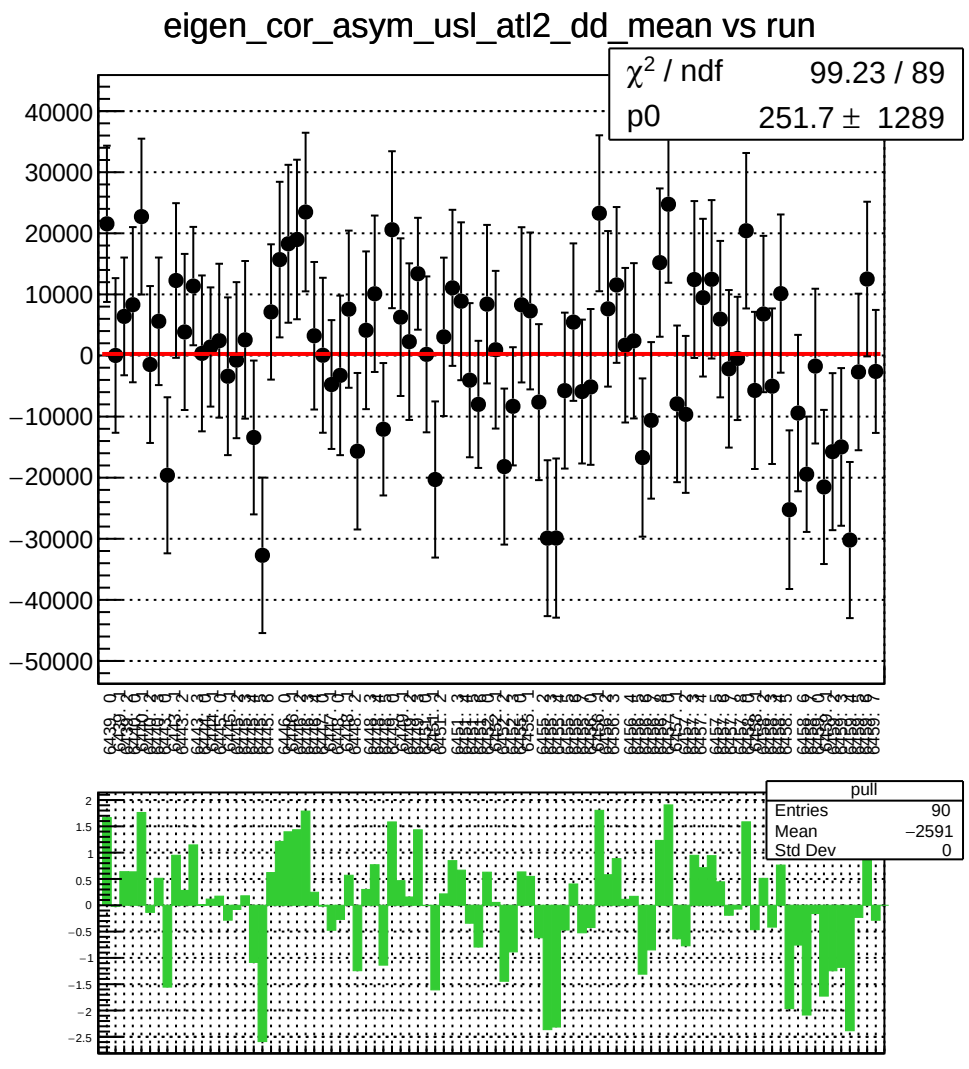

pull1D
Entries 90
Mean 0.002536
Std Dev 1.05

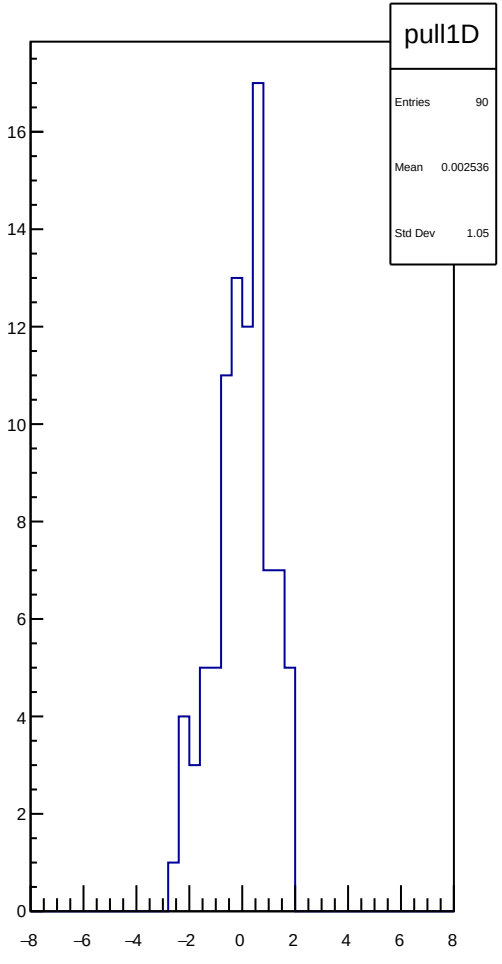

cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 156.7 / 89
p0 1217 ± 0.9118
1270
1260
1250
1240
1230
1220
1210
1200
1190
1180

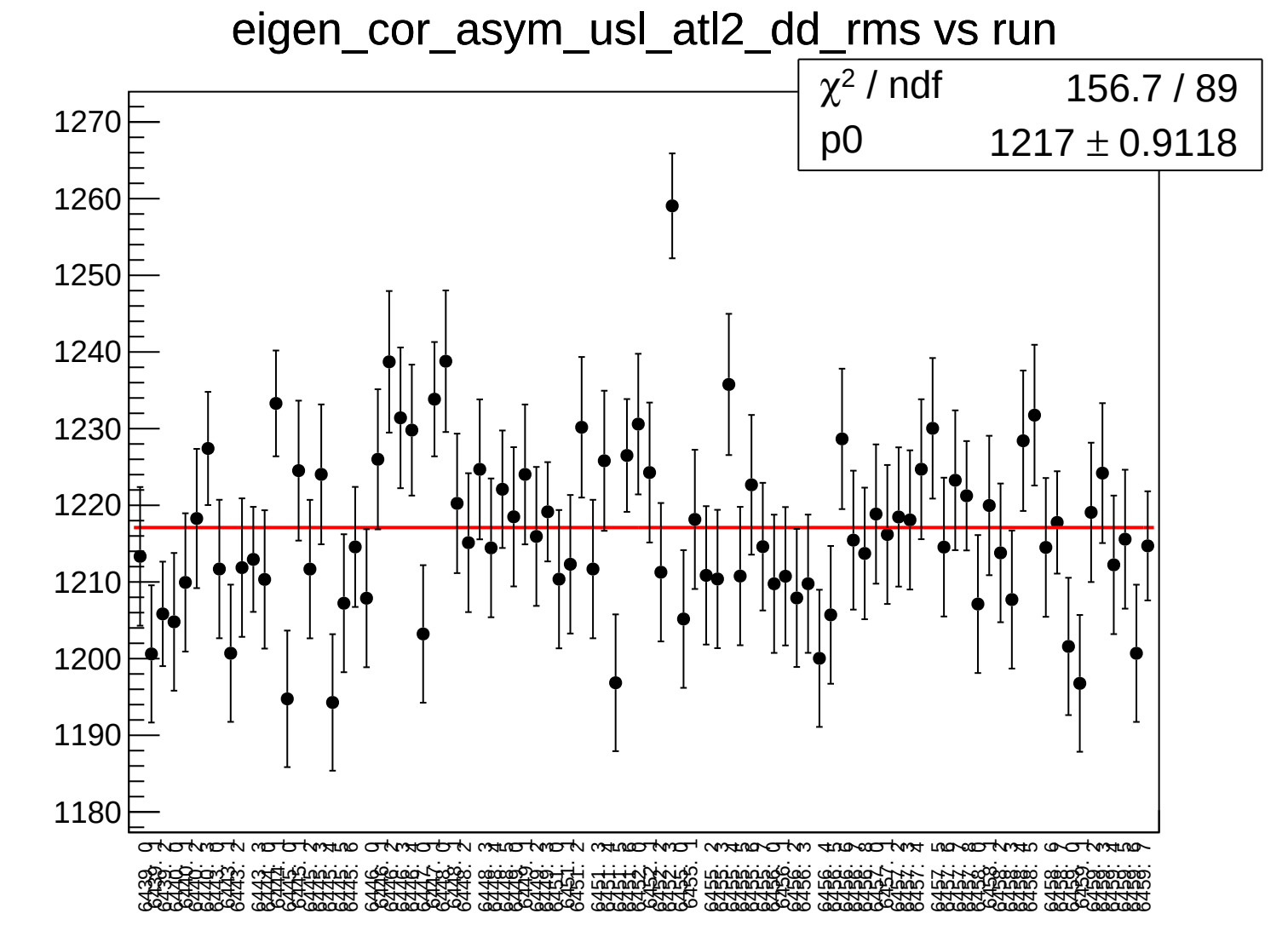

asym_usl_atl2_dd_cor_correction_mean vs run
χ² / ndf 82.49 / 89
p0 6131 ± 3818
×10³
150
100
50
0
−50
−100
pull
Entries 90
Mean −149.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

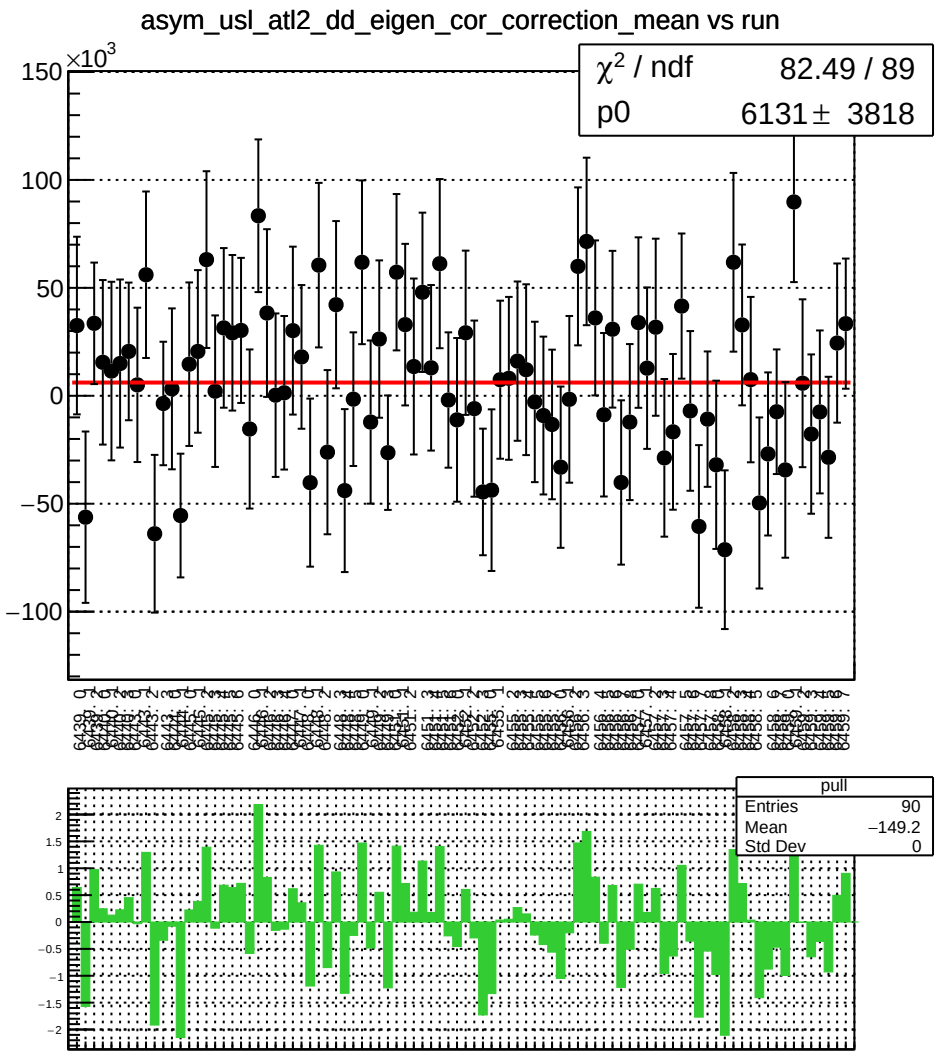

pull1D
Entries 90
Mean 0.01583
Std Dev 0.9572
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

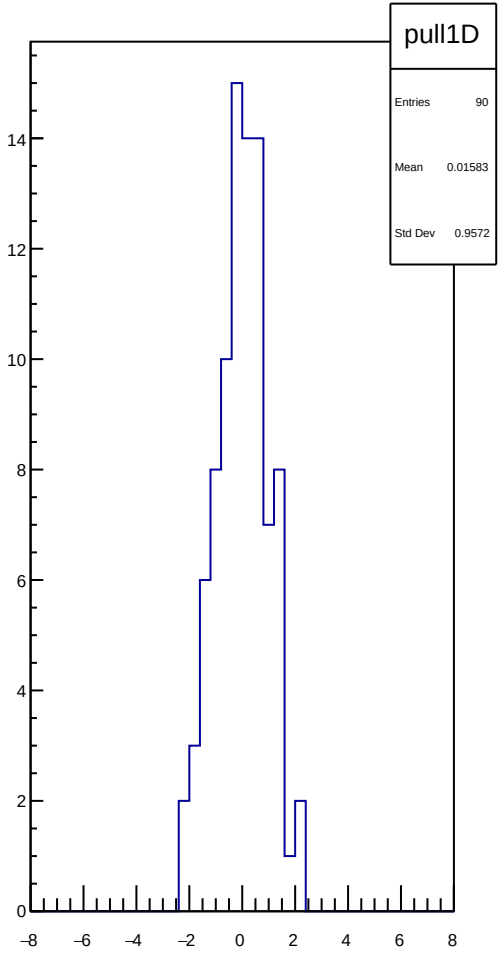

asym_usl_atl2_dd_cor_correction_rms vs run
χ² / ndf 2712 / 89
p0 3602 ± 2.7
4000
3900
3800
3700
3600
3500
3400
3300
3200
3100

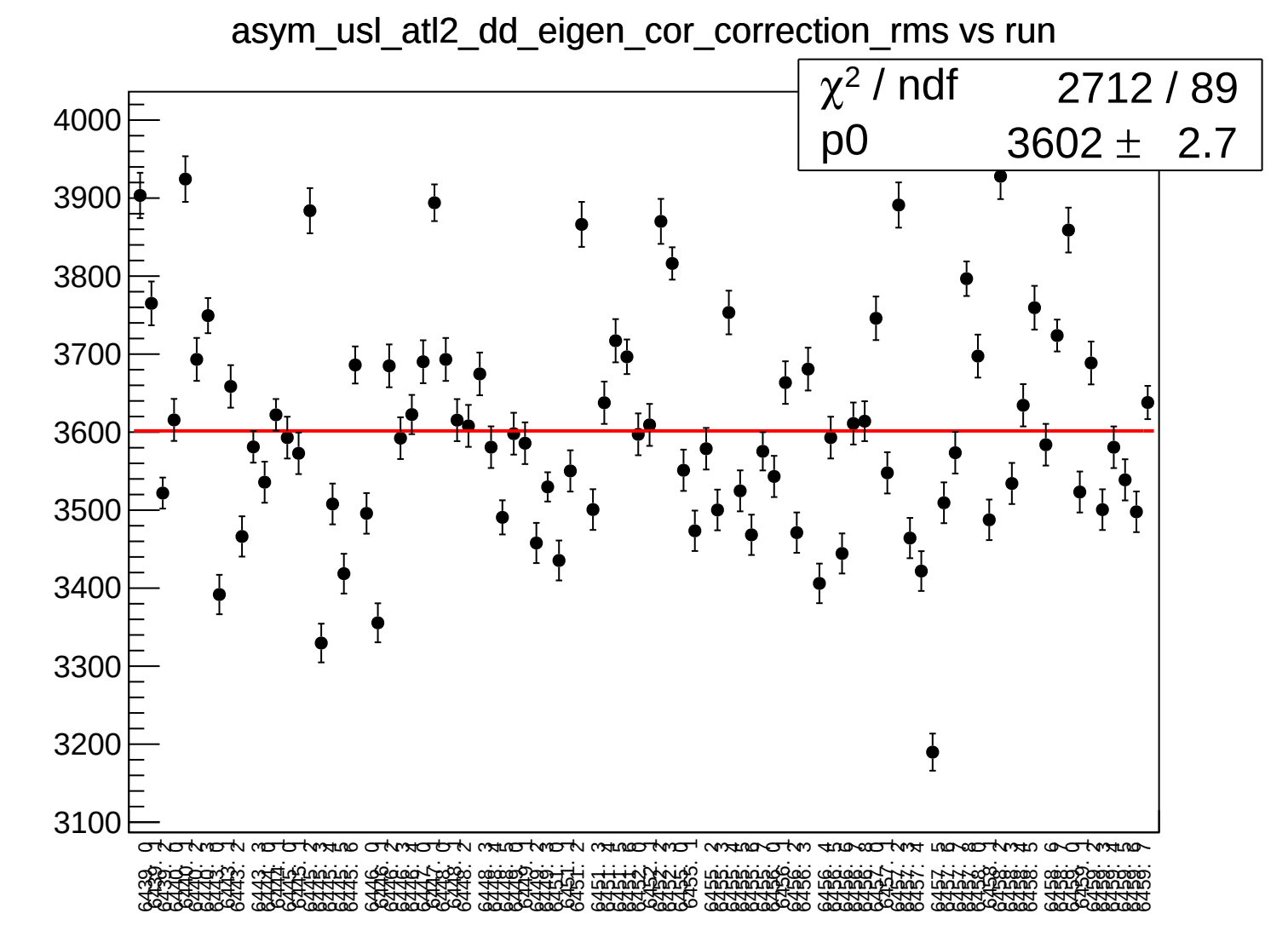

eigen_cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 99.23 / 89
p0 251.7 ± 1289
pull
Entries 90
Mean −2591
Std Dev 0

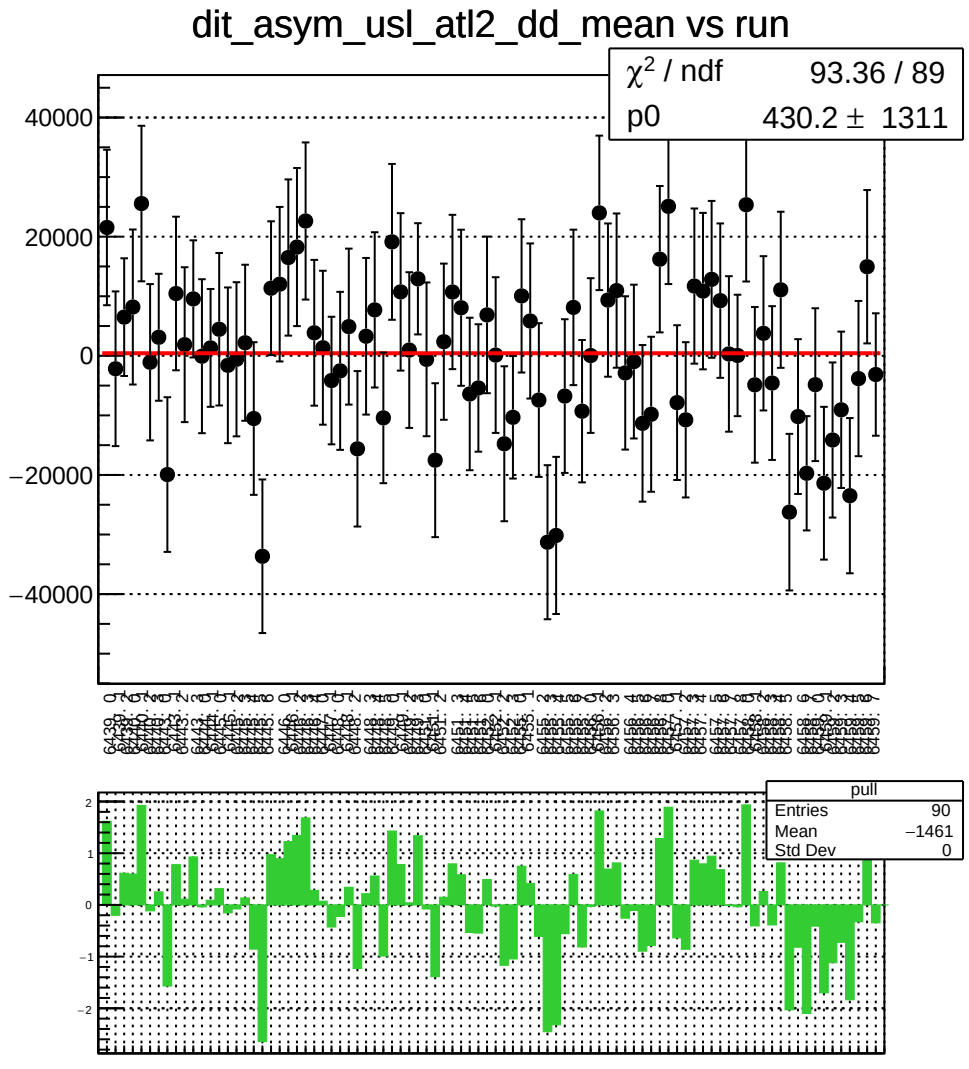

pull1D
Entries 90
Mean 0.002536
Std Dev 1.05

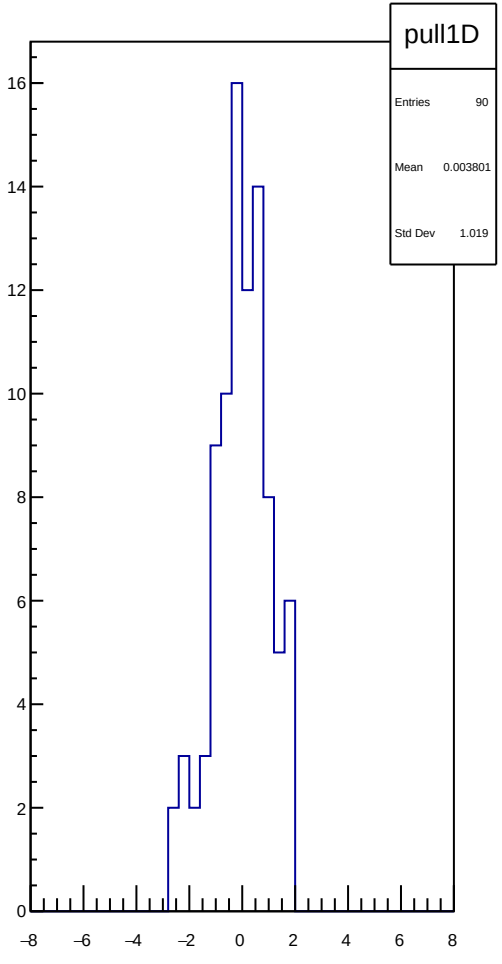

eigen_cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 156.7 / 89
p0 1217 ± 0.9118
1270
1260
1250
1240
1230
1220
1210
1200
1190
1180

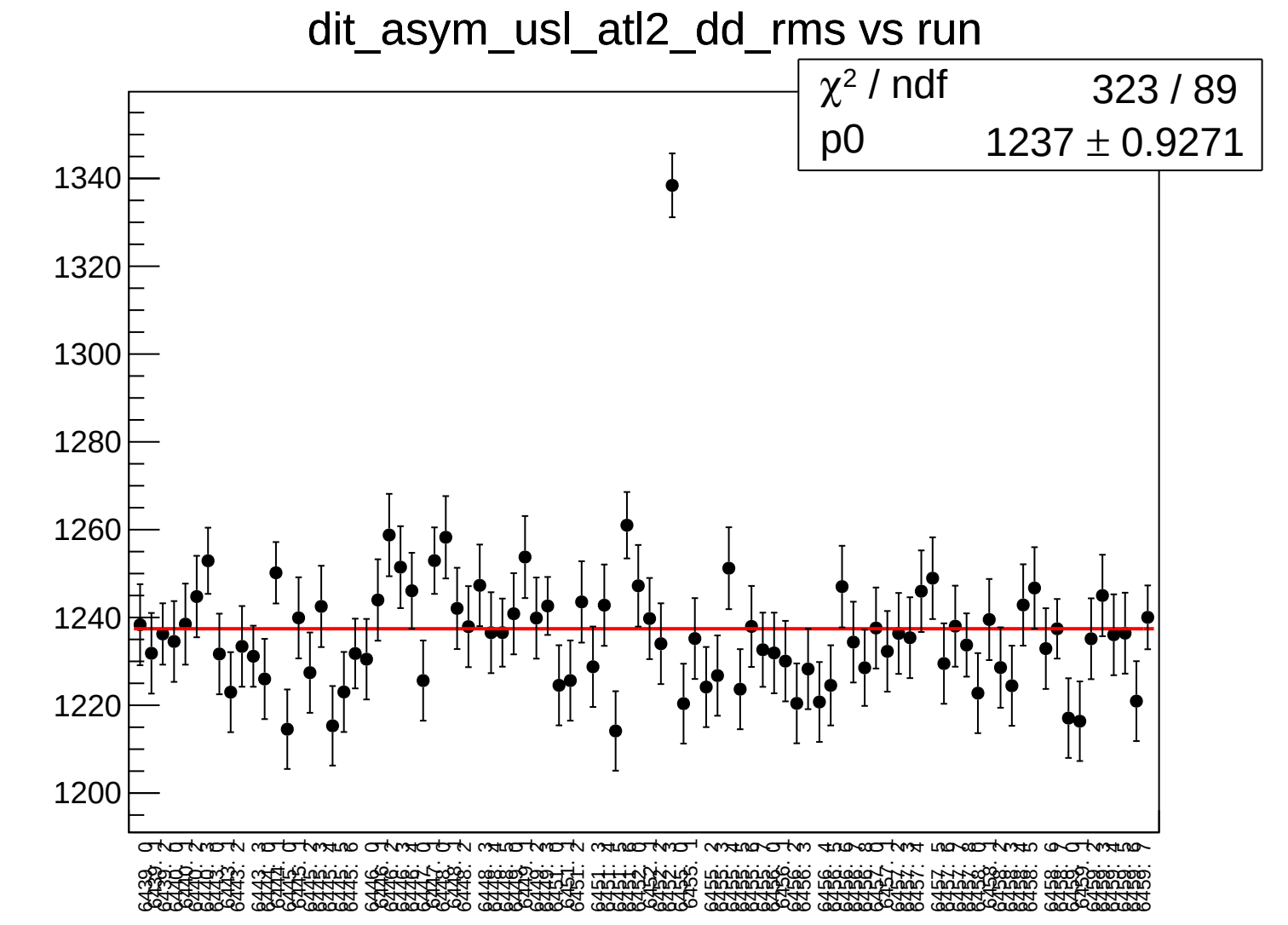

asym_usl_atl2_dd_eigen_cor_correction_mean vs run
χ² / ndf 82.49 / 89
p0 6131 ± 3818
×10³
150
100
50
0
−50
−100
pull
Entries 90
Mean −149.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

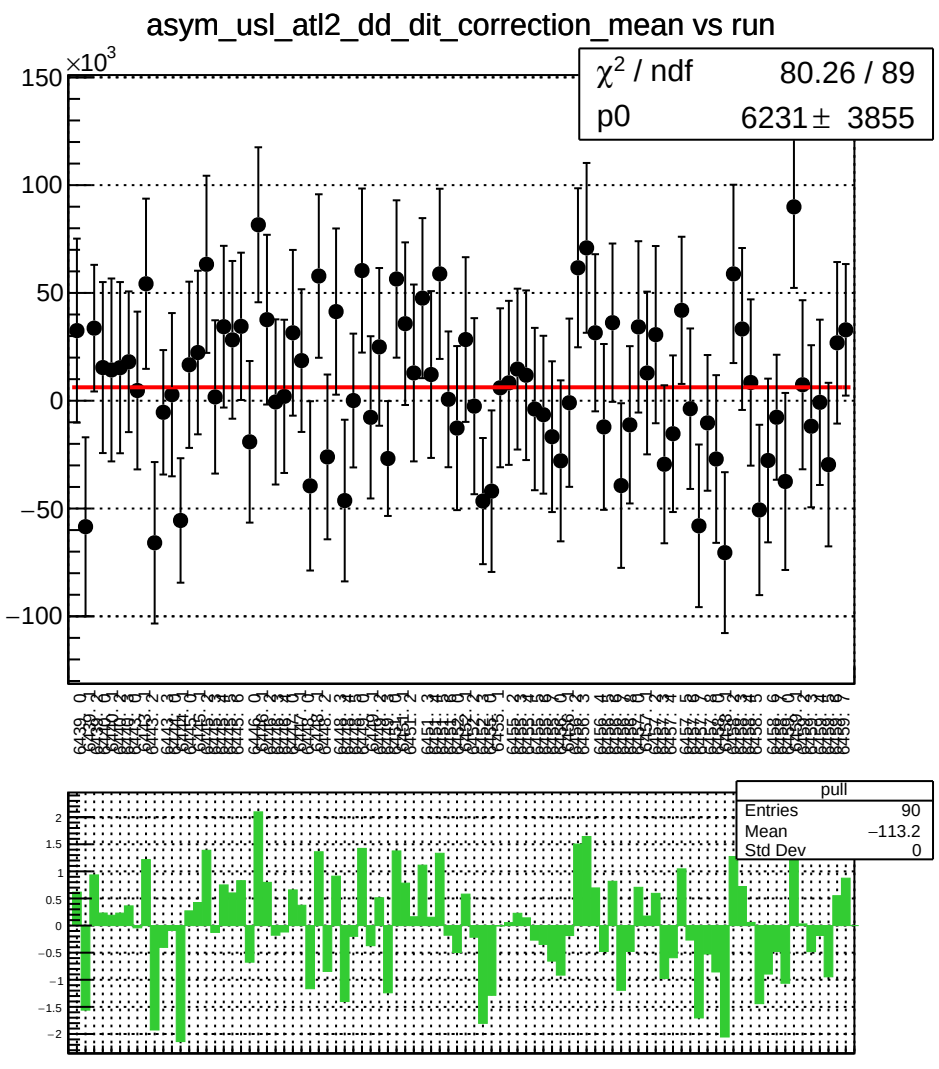

pull1D
Entries 90
Mean 0.01583
Std Dev 0.9572
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

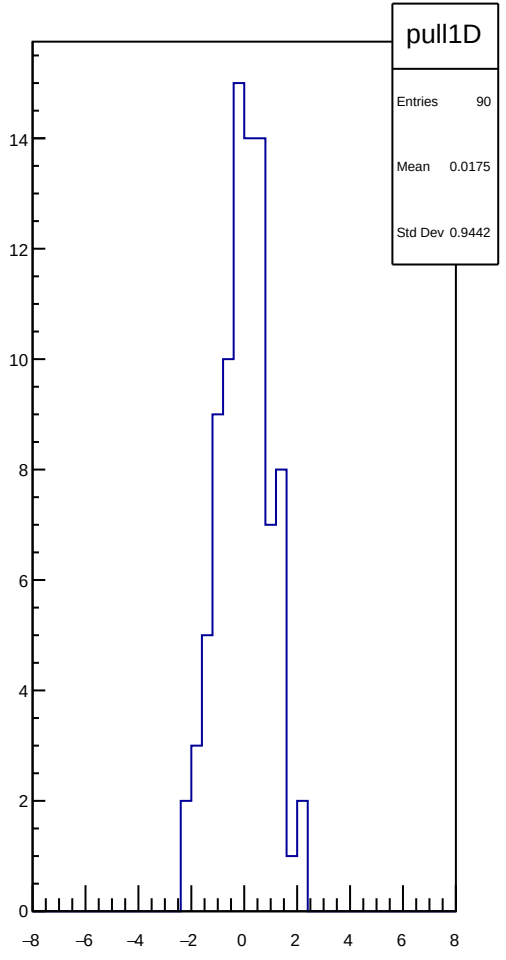

asym_usl_atl2_dd_eigen_cor_correction_rms vs run
χ² / ndf 2712 / 89
p0 3602 ± 2.7
4000
3900
3800
3700
3600
3500
3400
3300
3200
3100

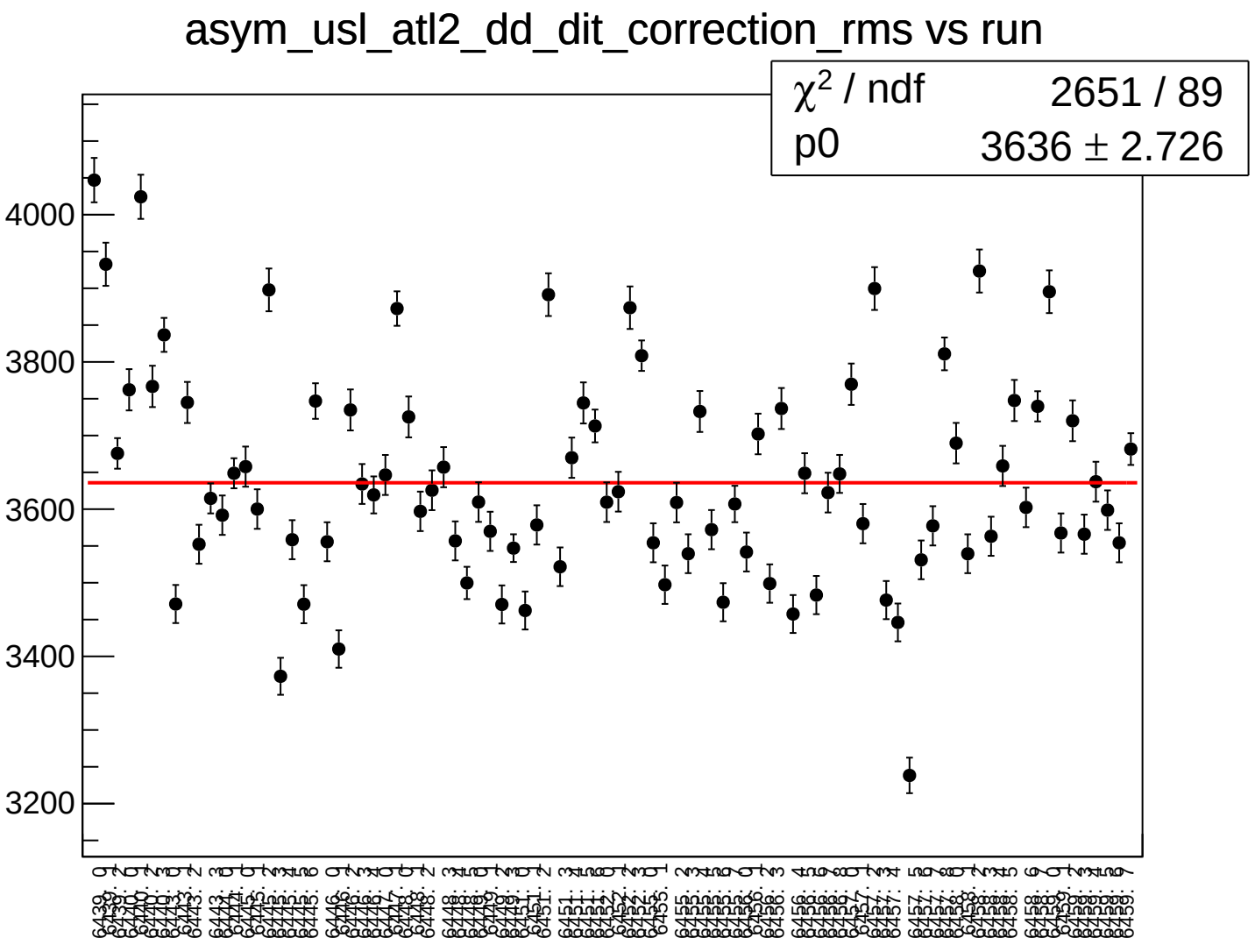

dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 93.36 / 89
p0 430.2 ± 1311
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −1461
Std Dev 0
2
1
0
−1
−2

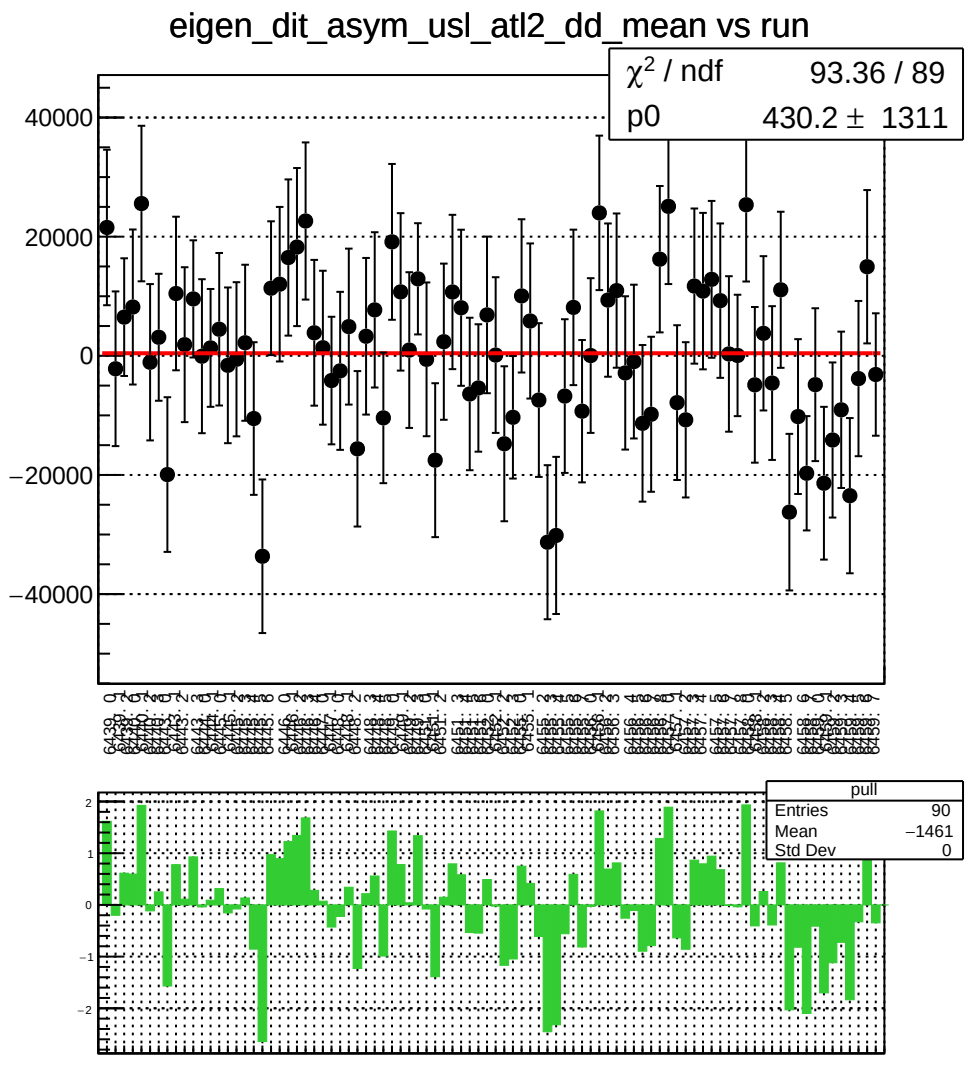

pull1D
Entries 90
Mean 0.003801
Std Dev 1.019
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

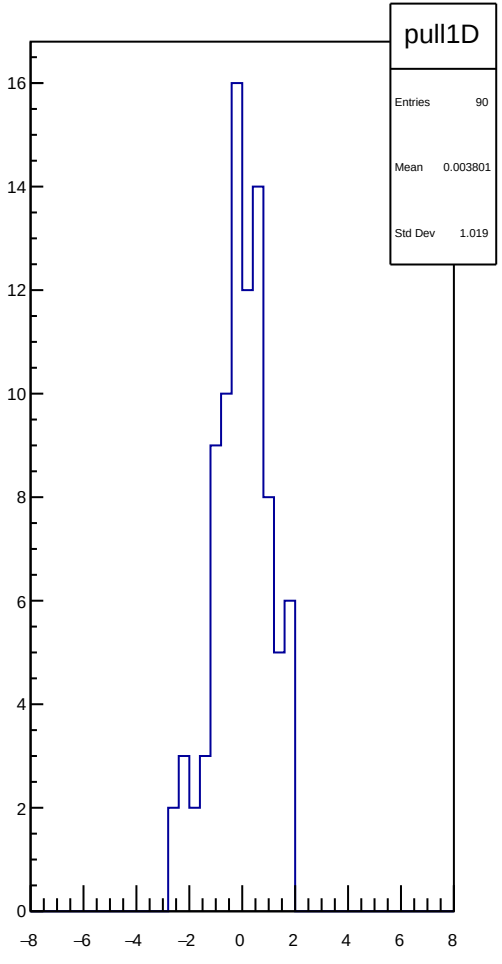

dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 323 / 89
p0 1237 ± 0.9271
1340
1320
1300
1280
1260
1240
1220
1200

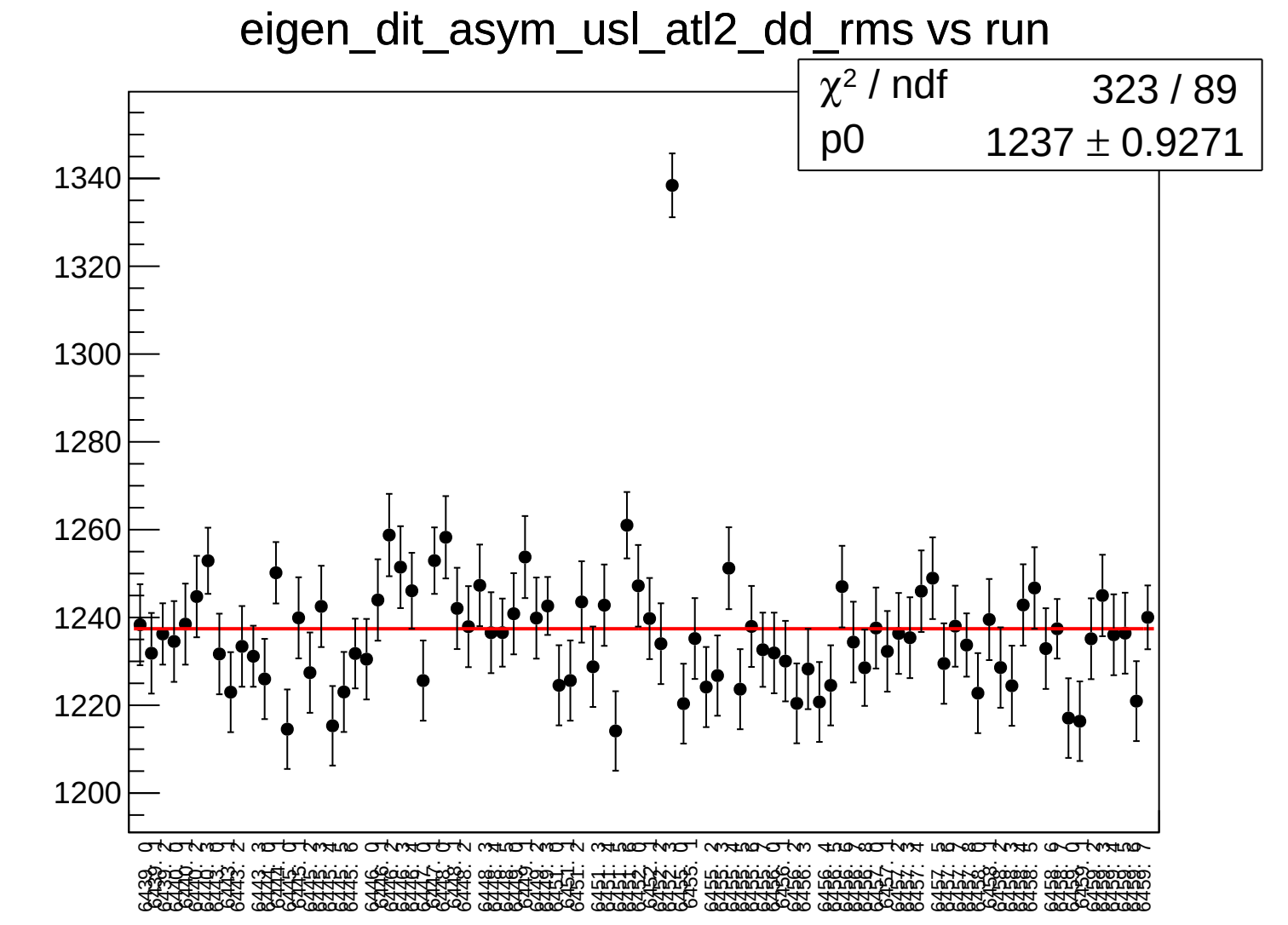

asym_usl_atl2_dd_dit_correction_mean vs run
χ² / ndf 80.26 / 89
p0 6231 ± 3855
×10³
150
100
50
0
−50
−100
pull
Entries 90
Mean −113.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

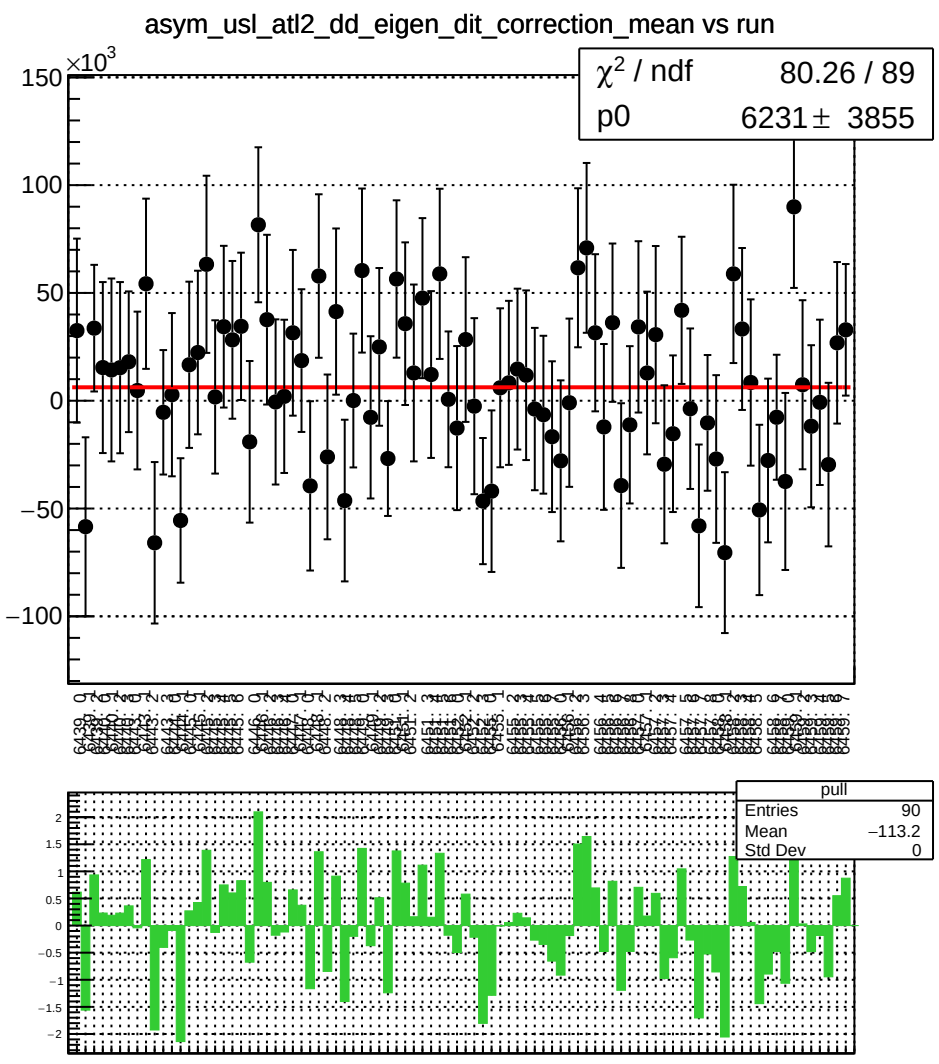

pull1D
Entries 90
Mean 0.0175
Std Dev 0.9442
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

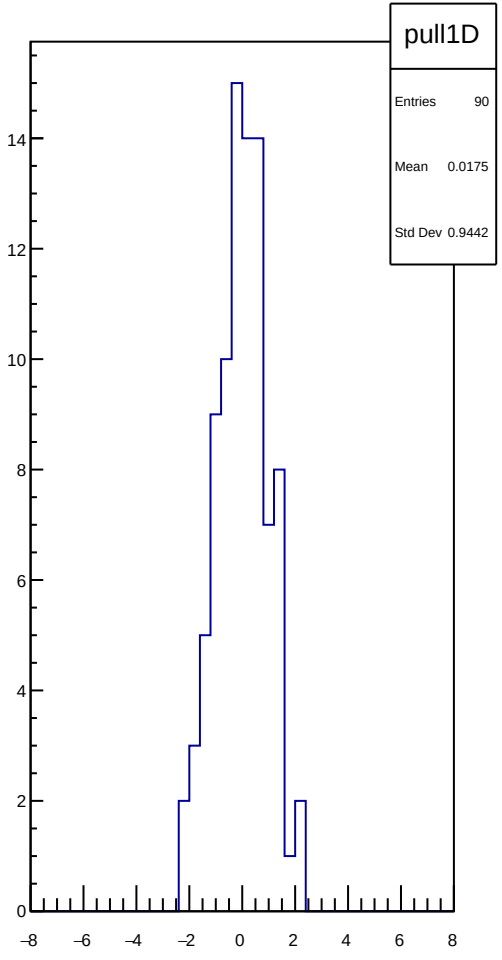

asym_usl_atl2_dd_dit_correction_rms vs run
χ² / ndf 2651 / 89
p0 3636 ± 2.726
4000
3800
3600
3400
3200

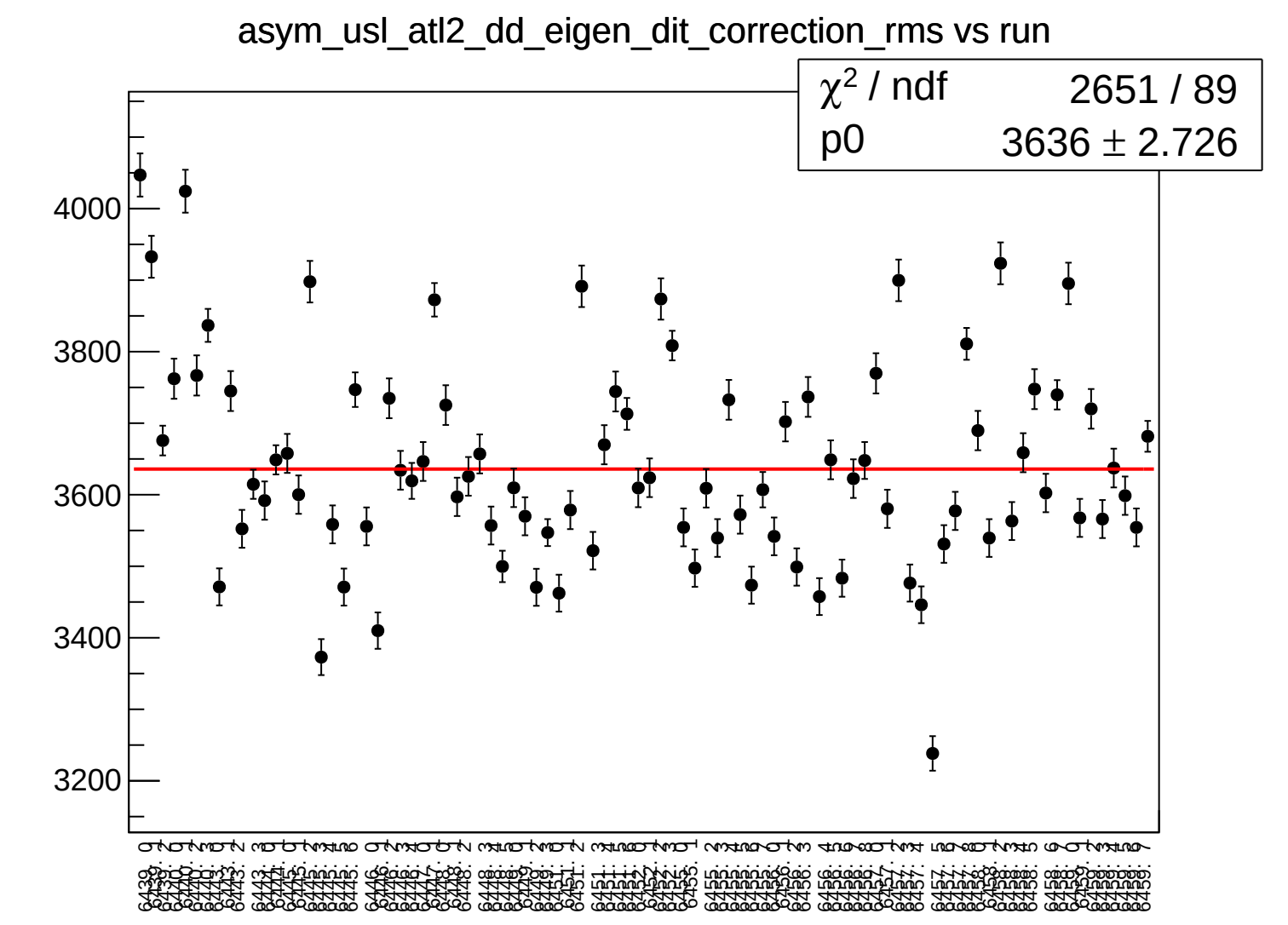

eigen_dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 93.36 / 89
p0 430.2 ± 1311
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −1461
Std Dev 0
2
1
0
−1
−2

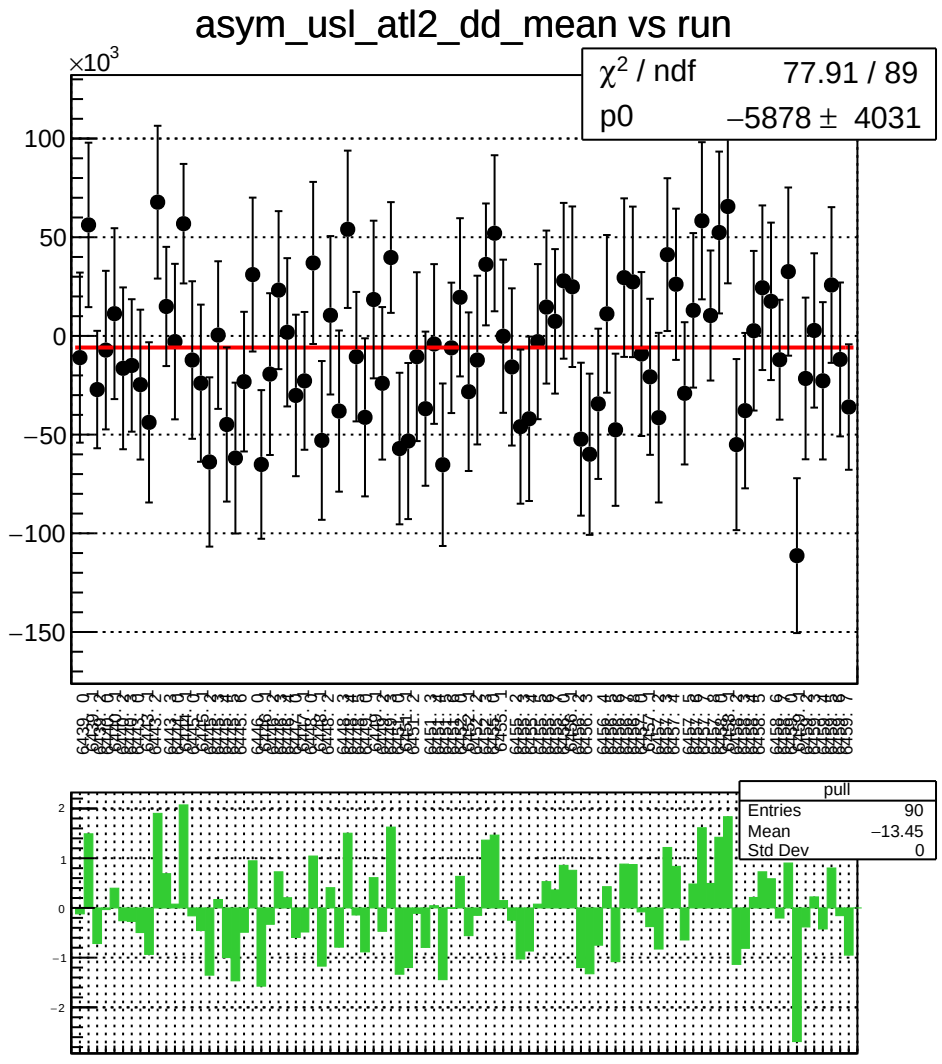

pull1D
Entries 90
Mean 0.003801
Std Dev 1.019
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

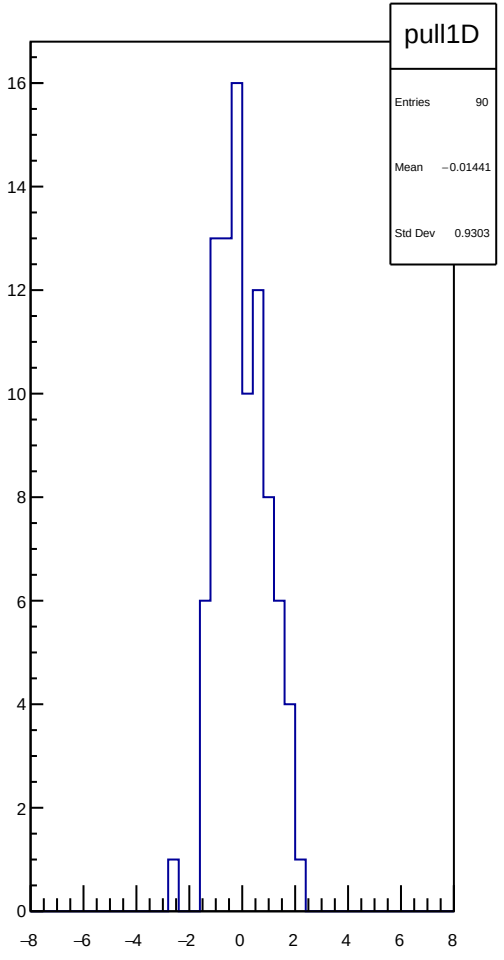

eigen_dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 323 / 89
p0 1237 ± 0.9271
1340
1320
1300
1280
1260
1240
1220
1200

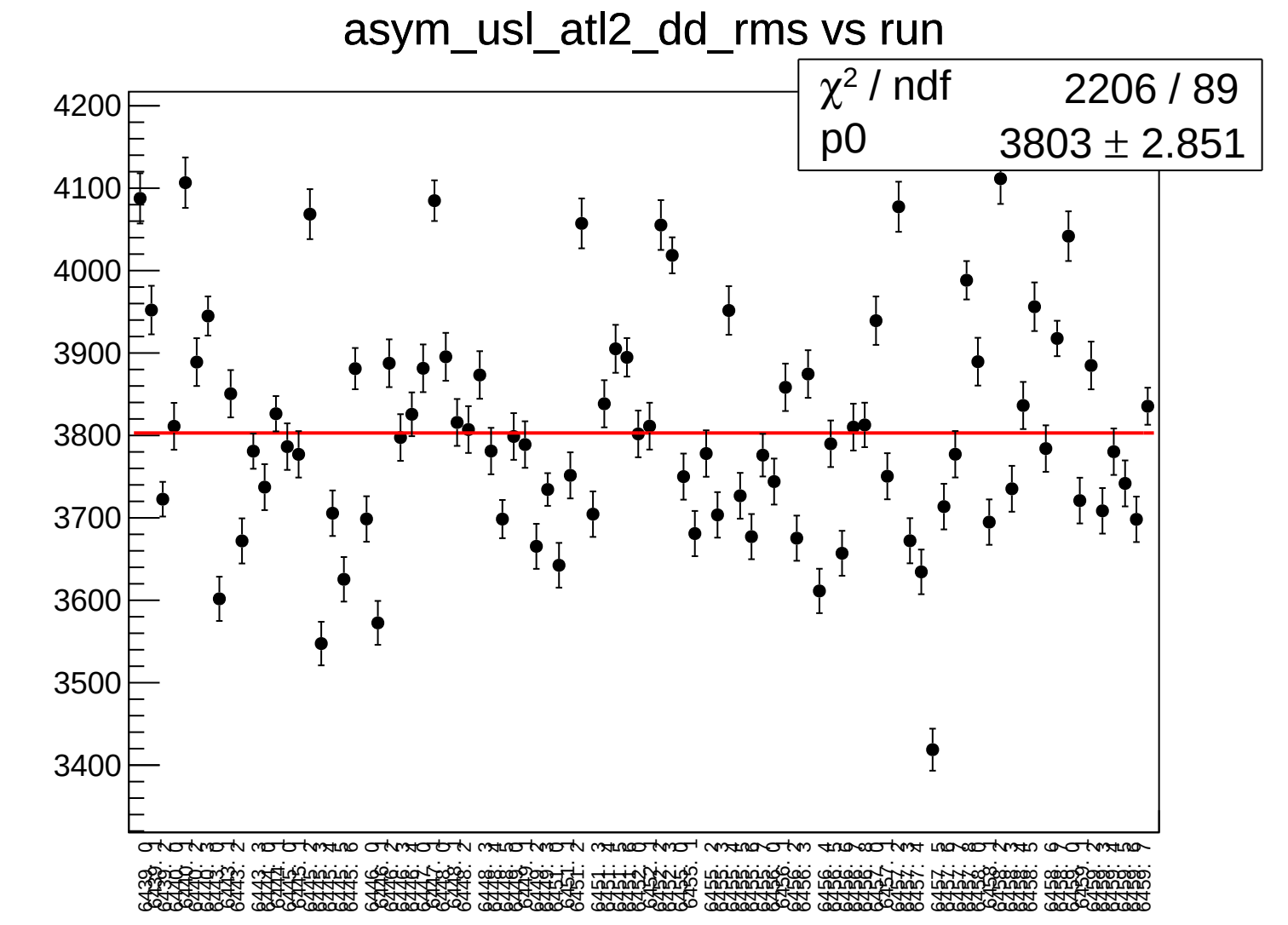

asym_usl_atl2_dd_eigen_dit_correction_mean vs run
χ² / ndf 80.26 / 89
p0 6231 ± 3855
×10³
150
100
50
0
−50
−100
pull
Entries 90
Mean −113.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

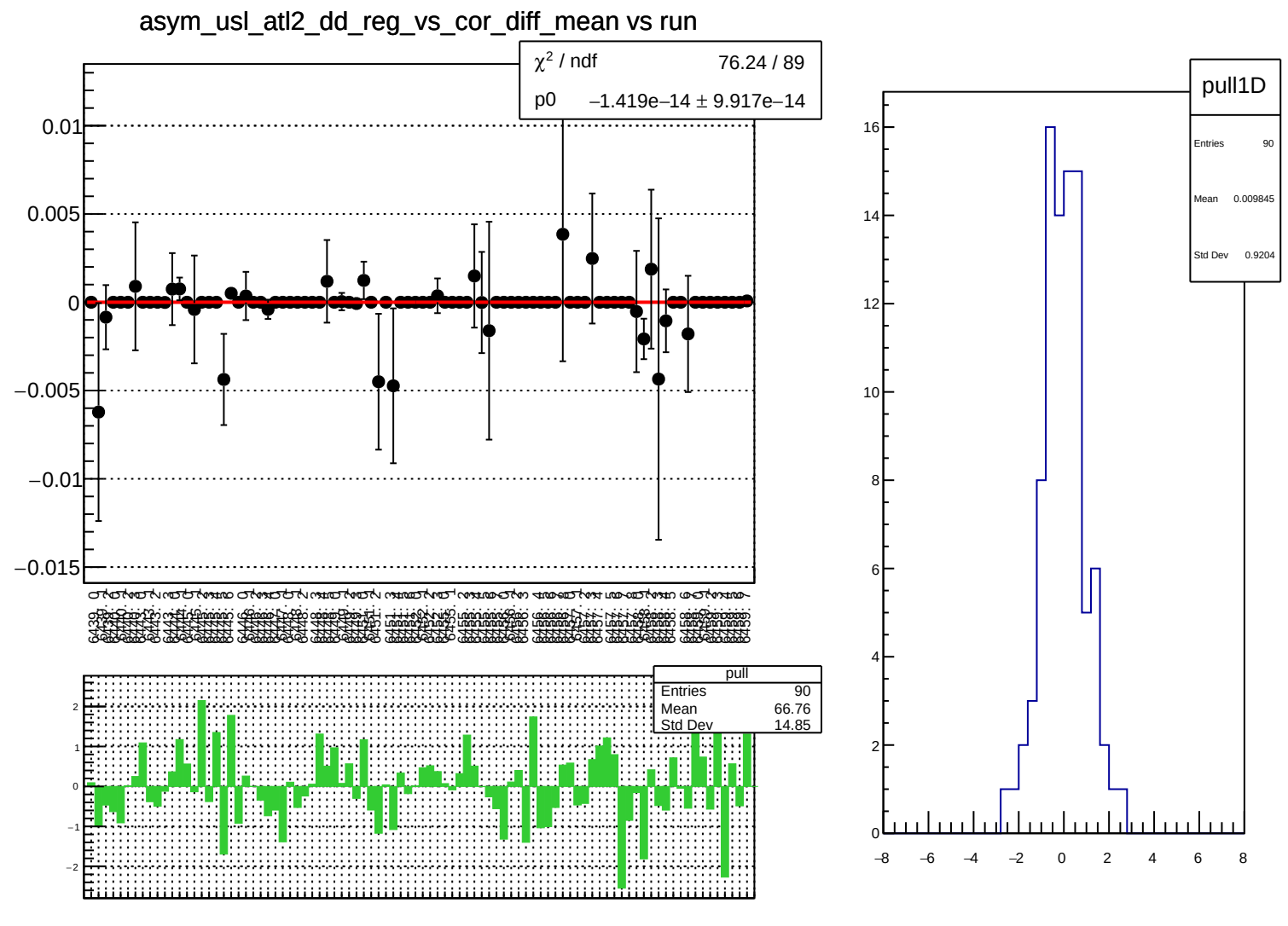

pull1D
Entries 90
Mean 0.0175
Std Dev 0.9442
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

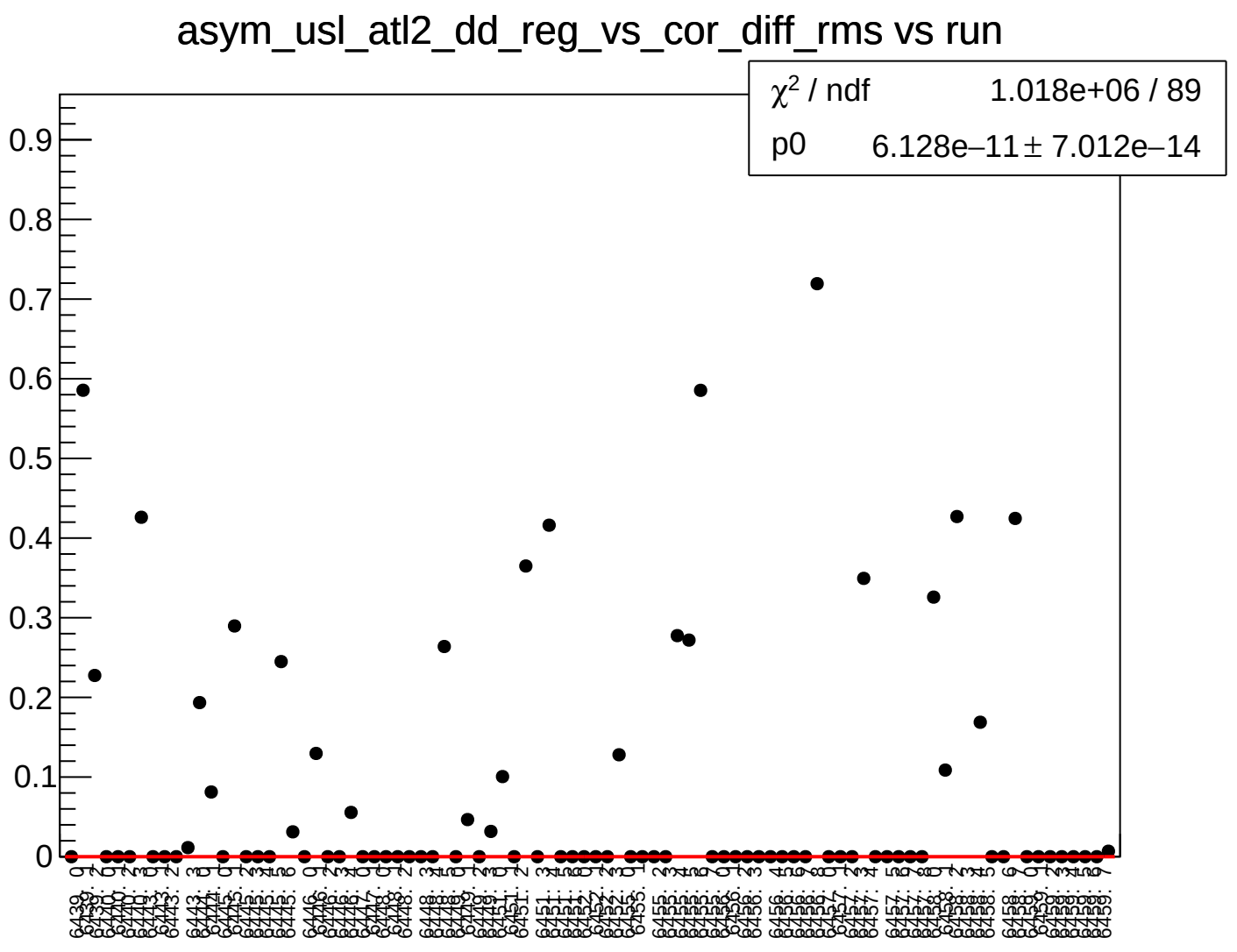

asym_usl_atl2_dd_eigen_dit_correction_rms vs run
χ² / ndf 2651 / 89
p0 3636 ± 2.726
4000
3800
3600
3400
3200

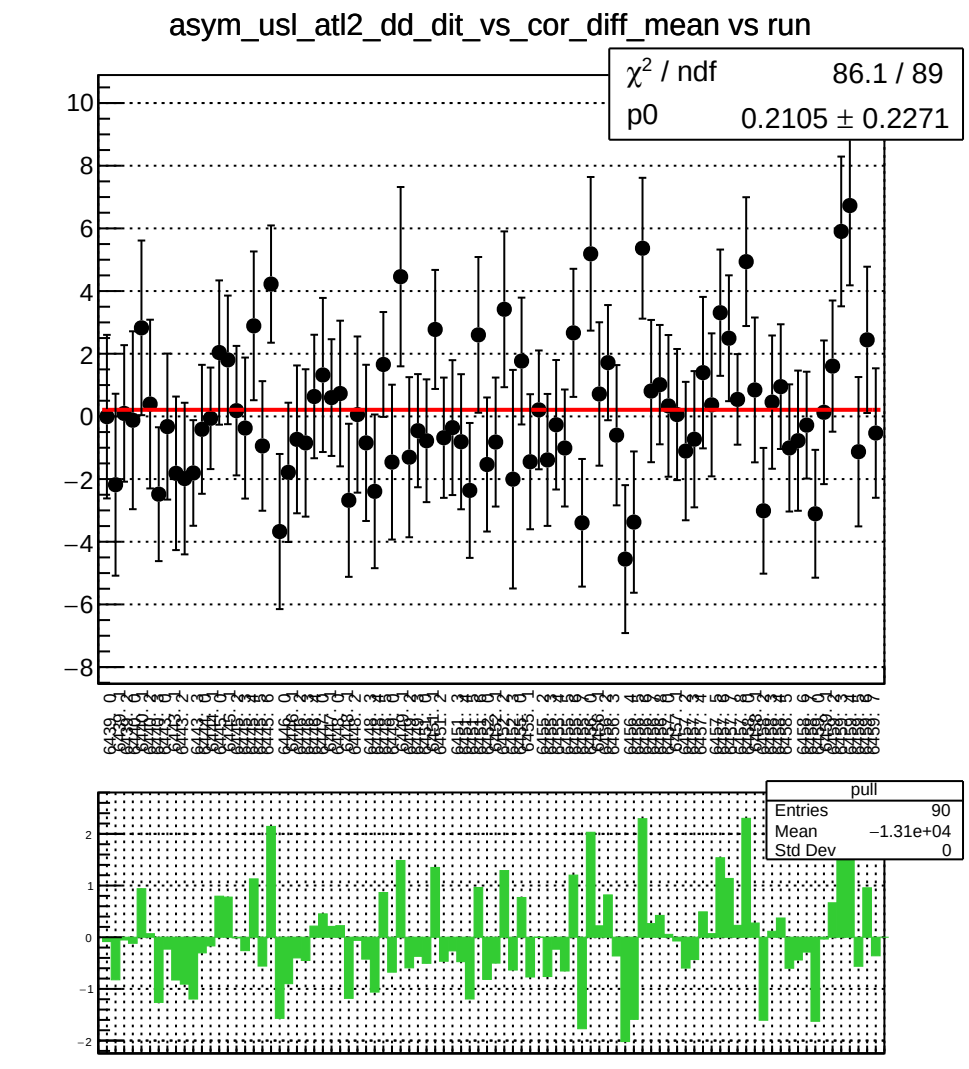

asym_usl_atl2_dd_mean vs run
×10^3
χ² / ndf 77.91 / 89
p0 −5878 ± 4031
100
50
0
−50
−100
−150
pull
Entries 90
Mean −13.45
Std Dev 0
2
1
0
−1
−2

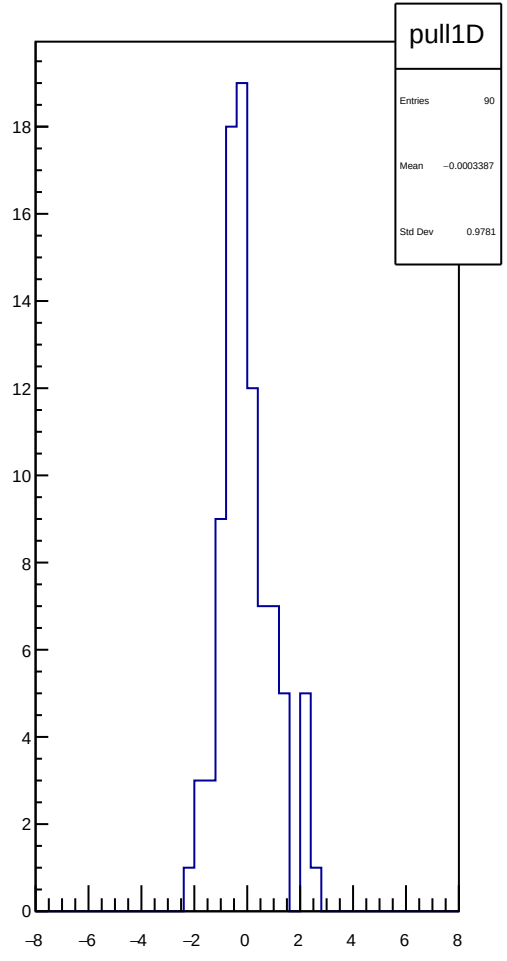

pull1D
Entries 90
Mean −0.01441
Std Dev 0.9303
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

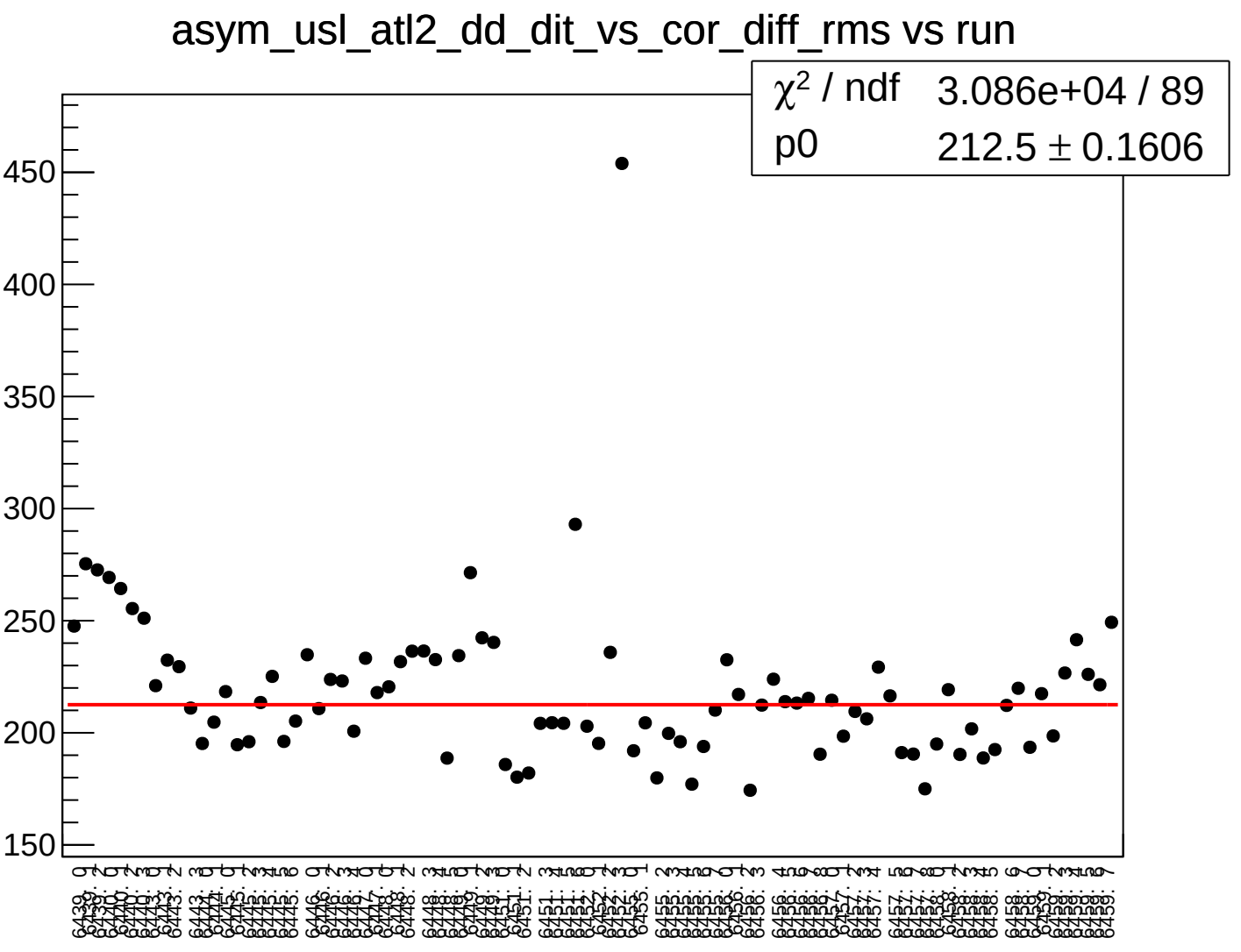

asym_usl_atl2_dd_rms vs run
χ² / ndf 2206 / 89
p0 3803 ± 2.851
4200
4100
4000
3900
3800
3700
3600
3500
3400

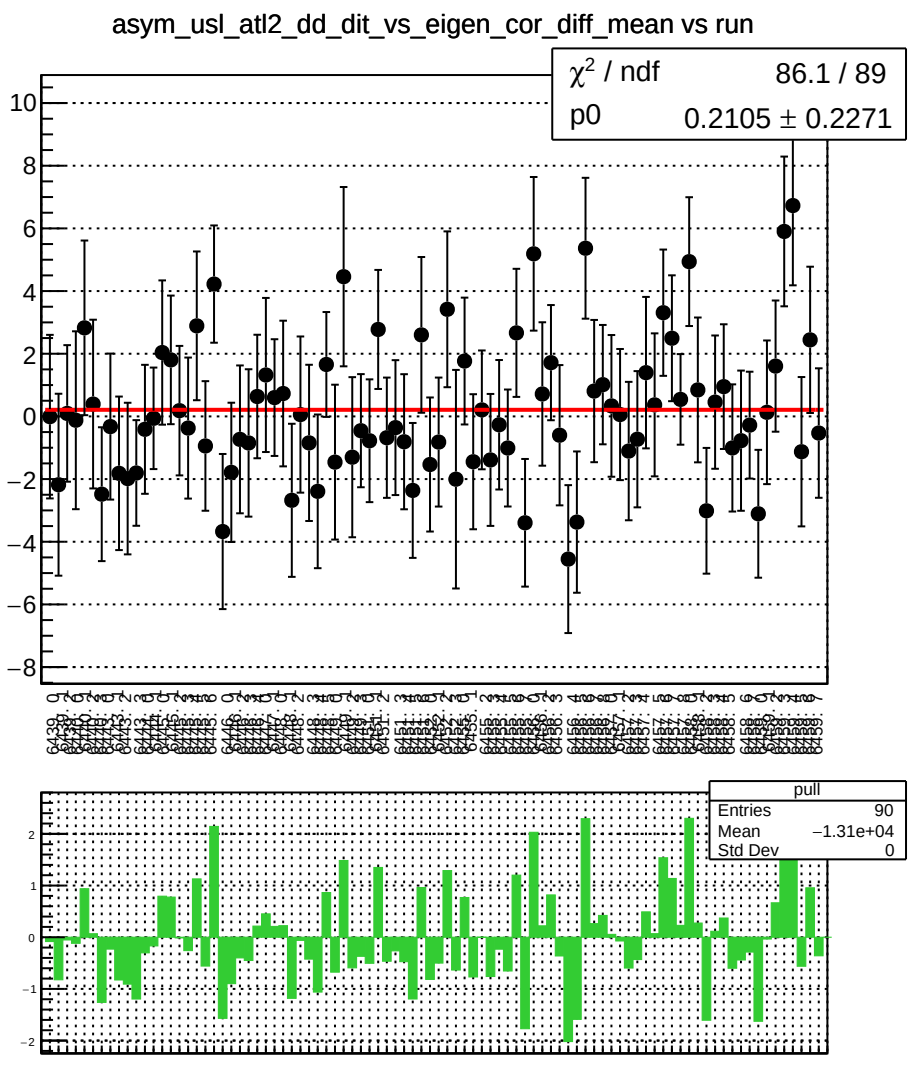

asym_usl_atl2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 76.24 / 89
p0 −1.419e−14 ± 9.917e−14
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 90
Mean 66.76
Std Dev 14.85
2
1
0
−1
−2
pull1D
Entries 90
Mean 0.009845
Std Dev 0.9204
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

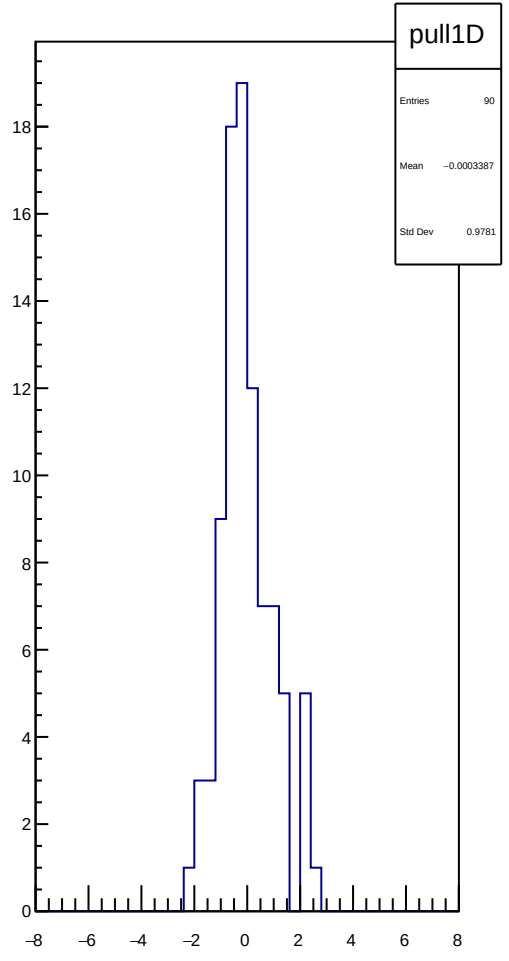

asym_usl_atl2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.018e+06 / 89
p0 6.128e−11 ± 7.012e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

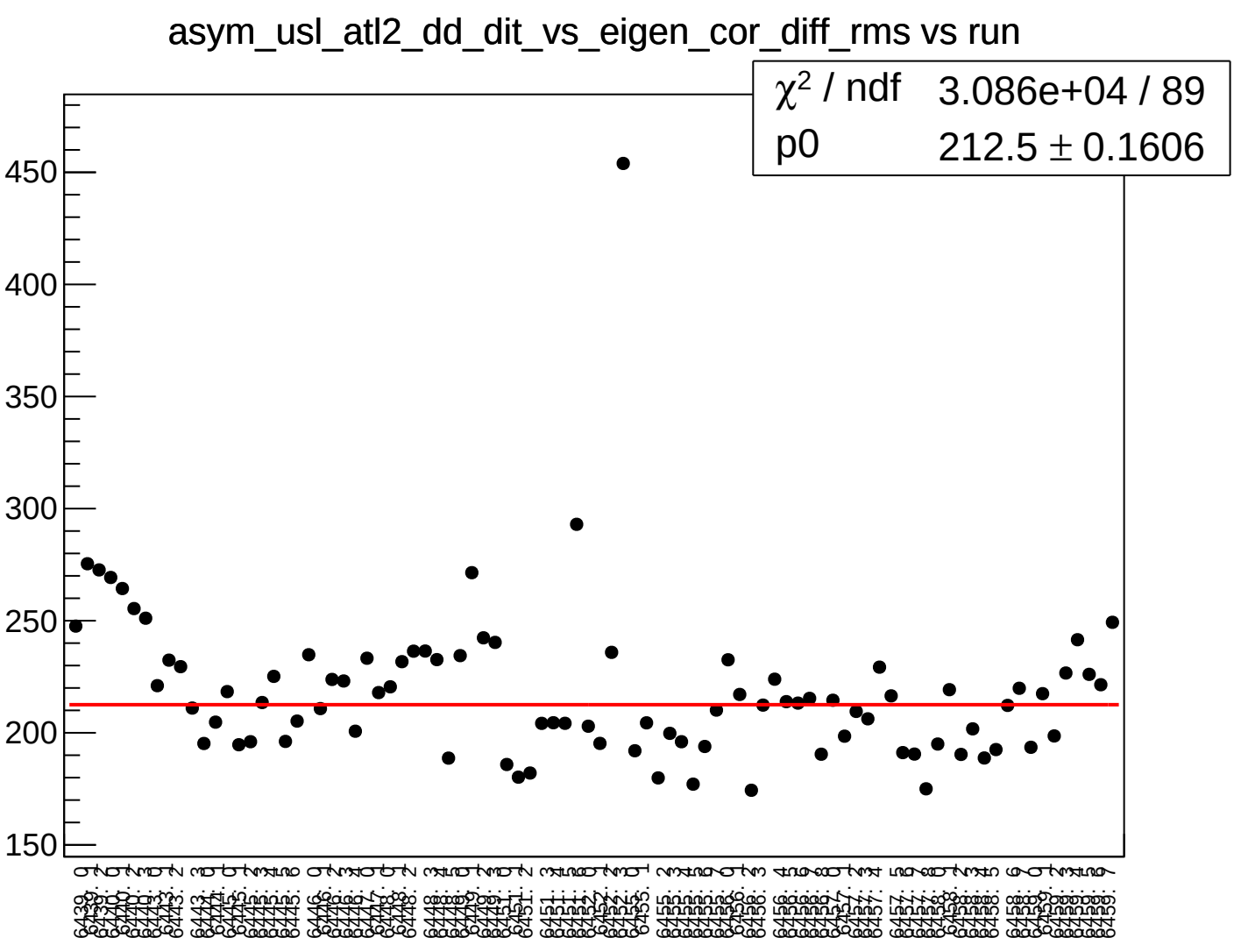

asym_usl_atl2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 86.1 / 89
p0 0.2105 ± 0.2271
pull
Entries 90
Mean −1.31e+04
Std Dev 0

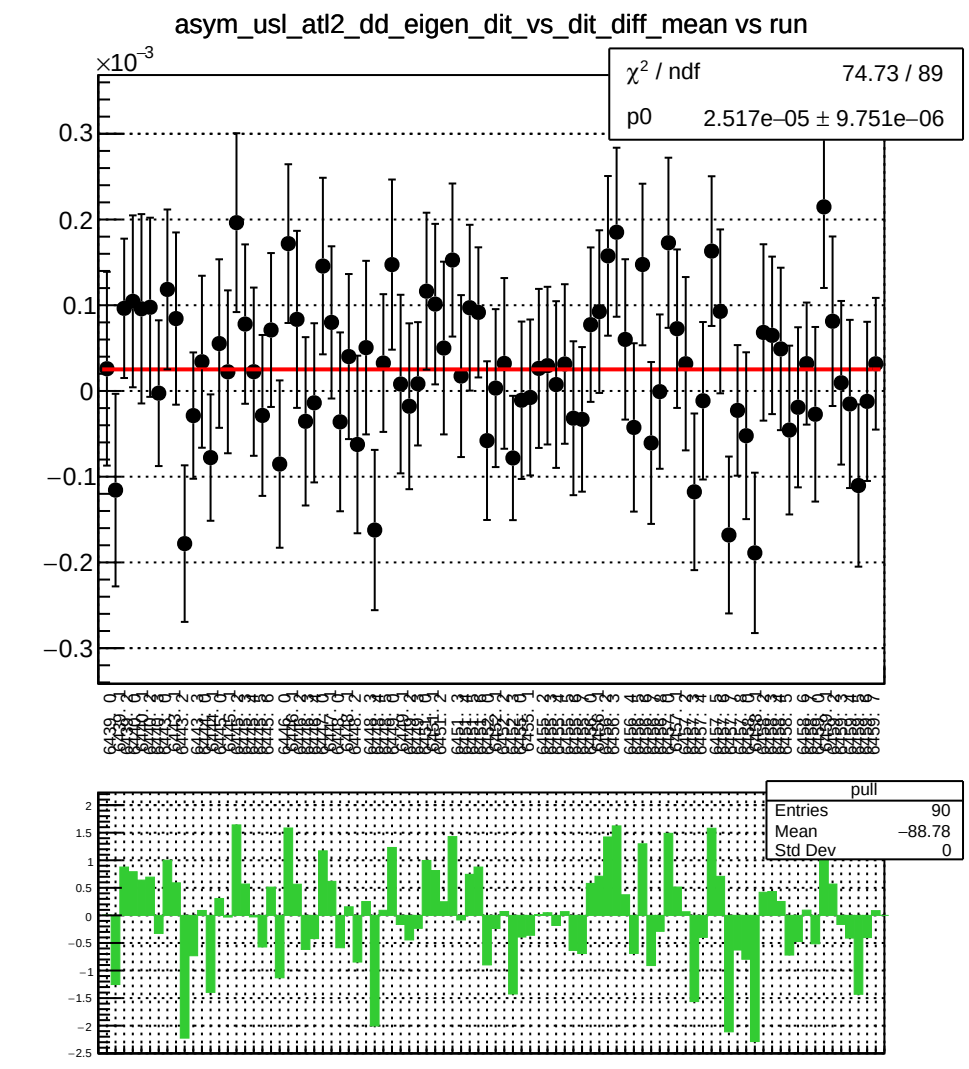

pull1D
Entries 90
Mean −0.0003387
Std Dev 0.9781

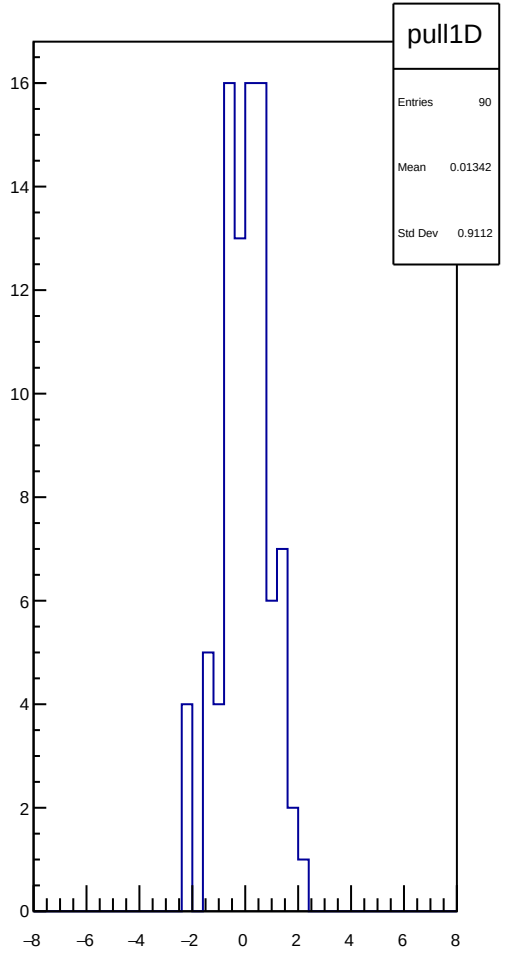

asym_usl_atl2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.086e+04 / 89
p0 212.5 ± 0.1606
450
400
350
300
250
200
150

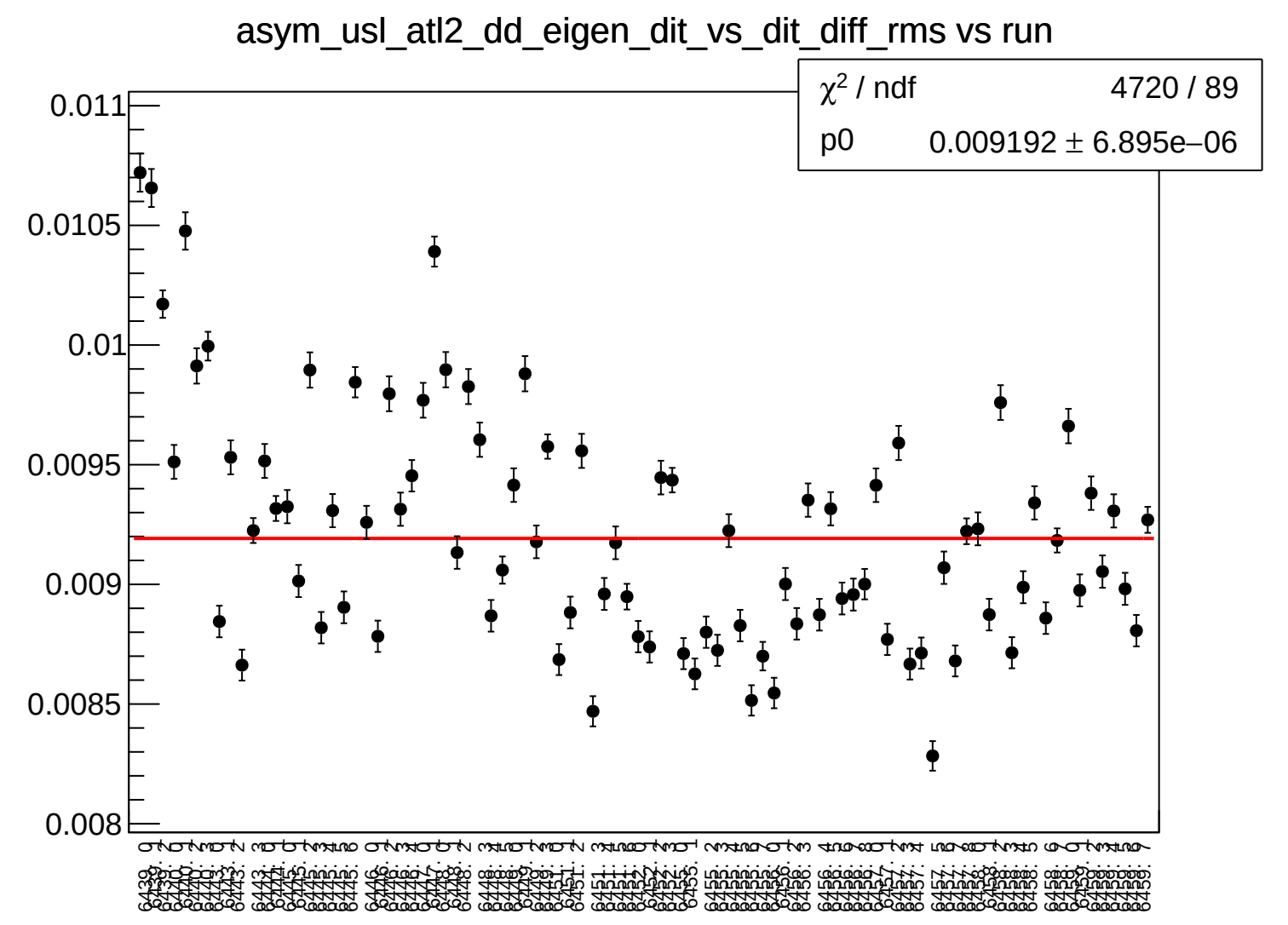

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.1 / 89
p0 0.2105 ± 0.2271
pull
Entries 90
Mean −1.31e+04
Std Dev 0

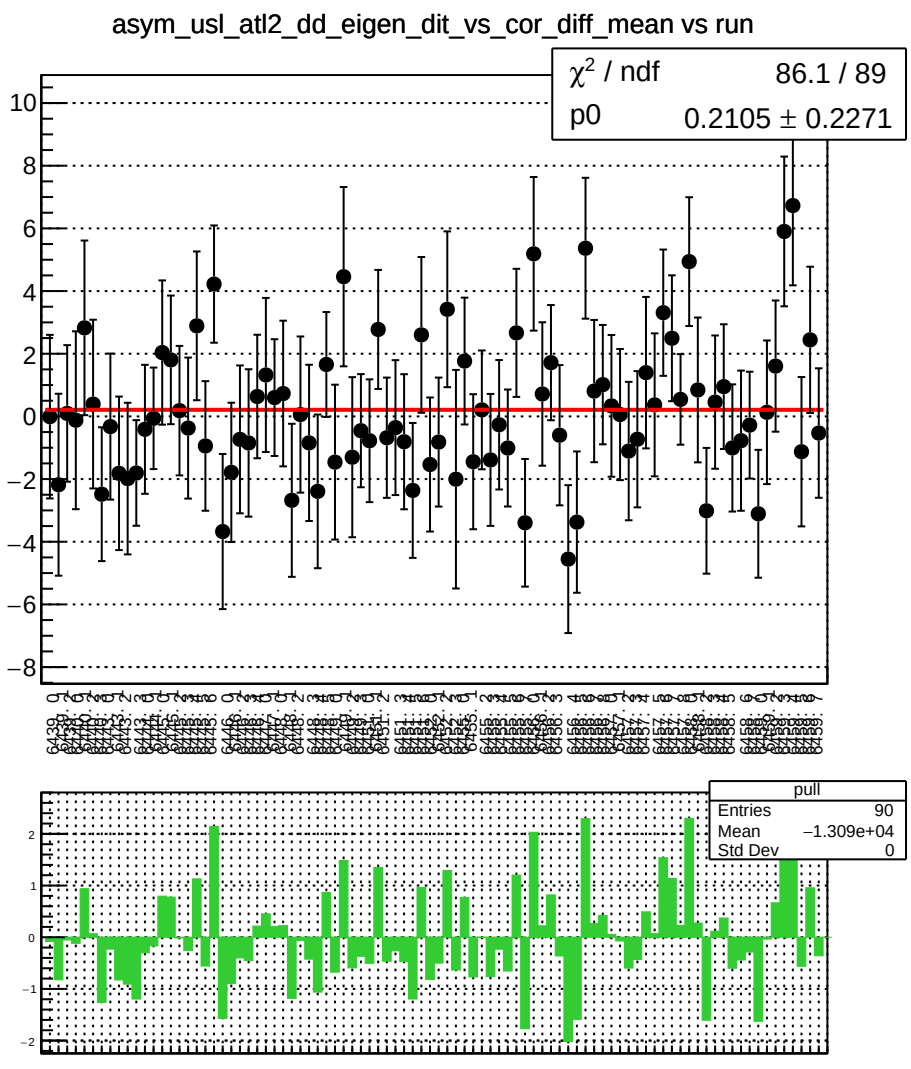

pull1D
Entries 90
Mean −0.0003387
Std Dev 0.9781

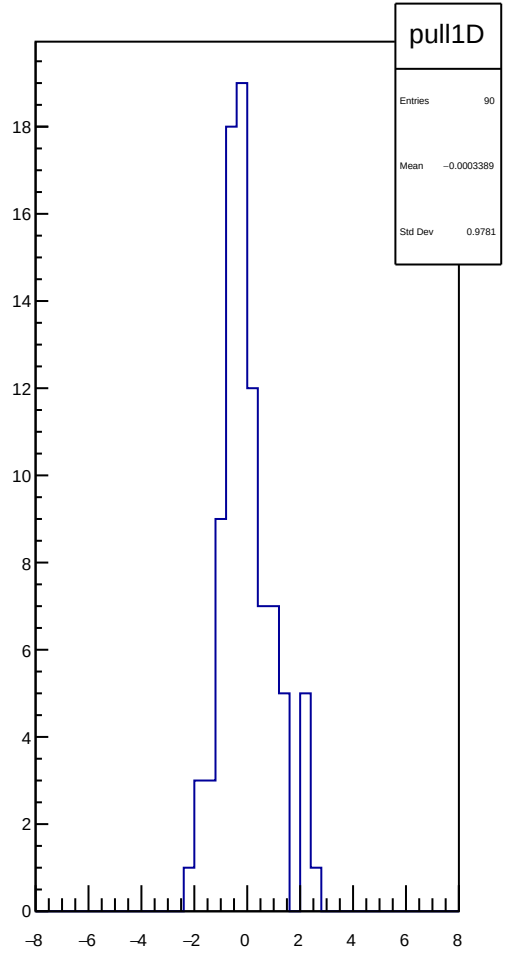

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.086e+04 / 89
p0 212.5 ± 0.1606
450
400
350
300
250
200
150

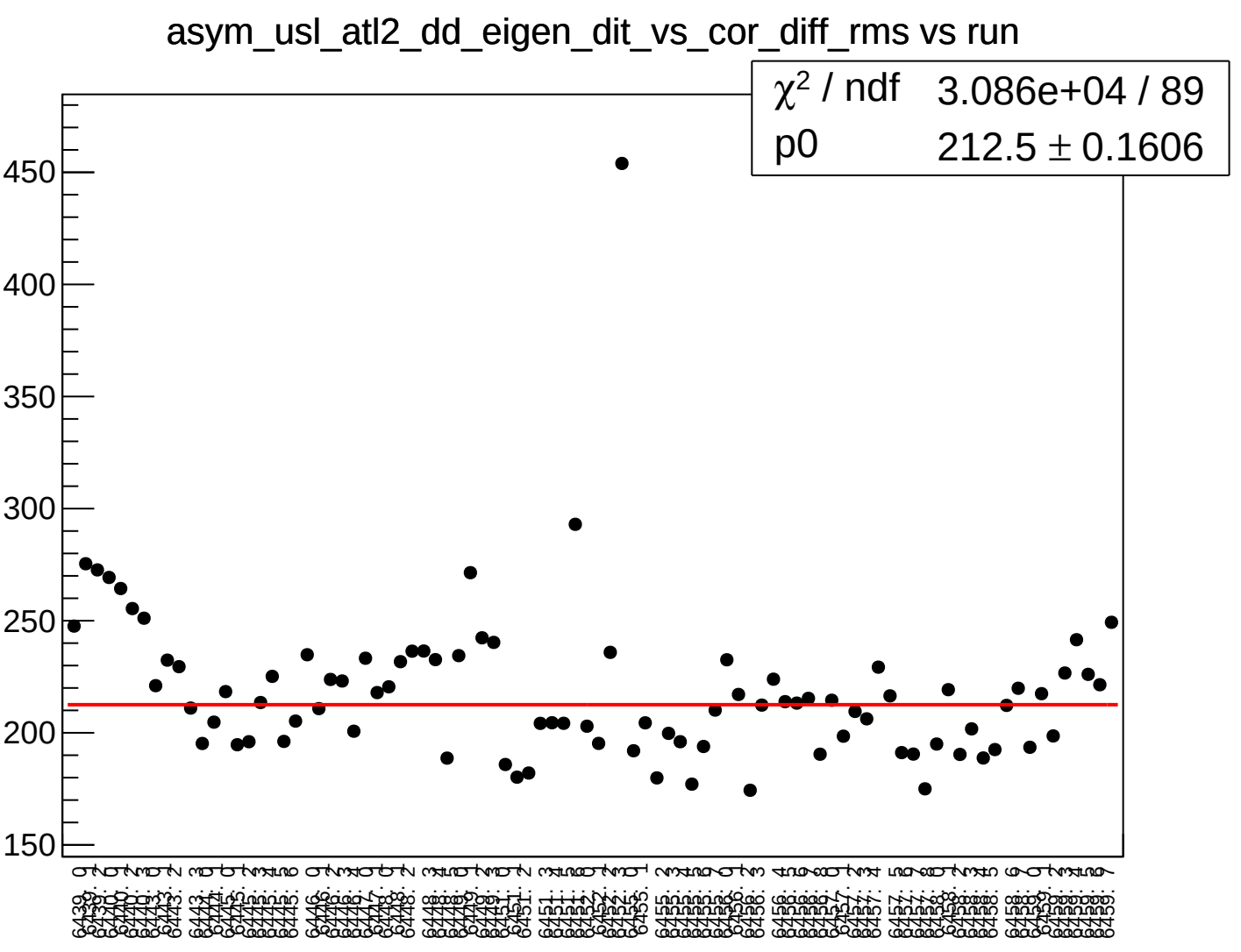

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 74.73 / 89
p0 2.517e−05 ± 9.751e−06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 90
Mean −88.78
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

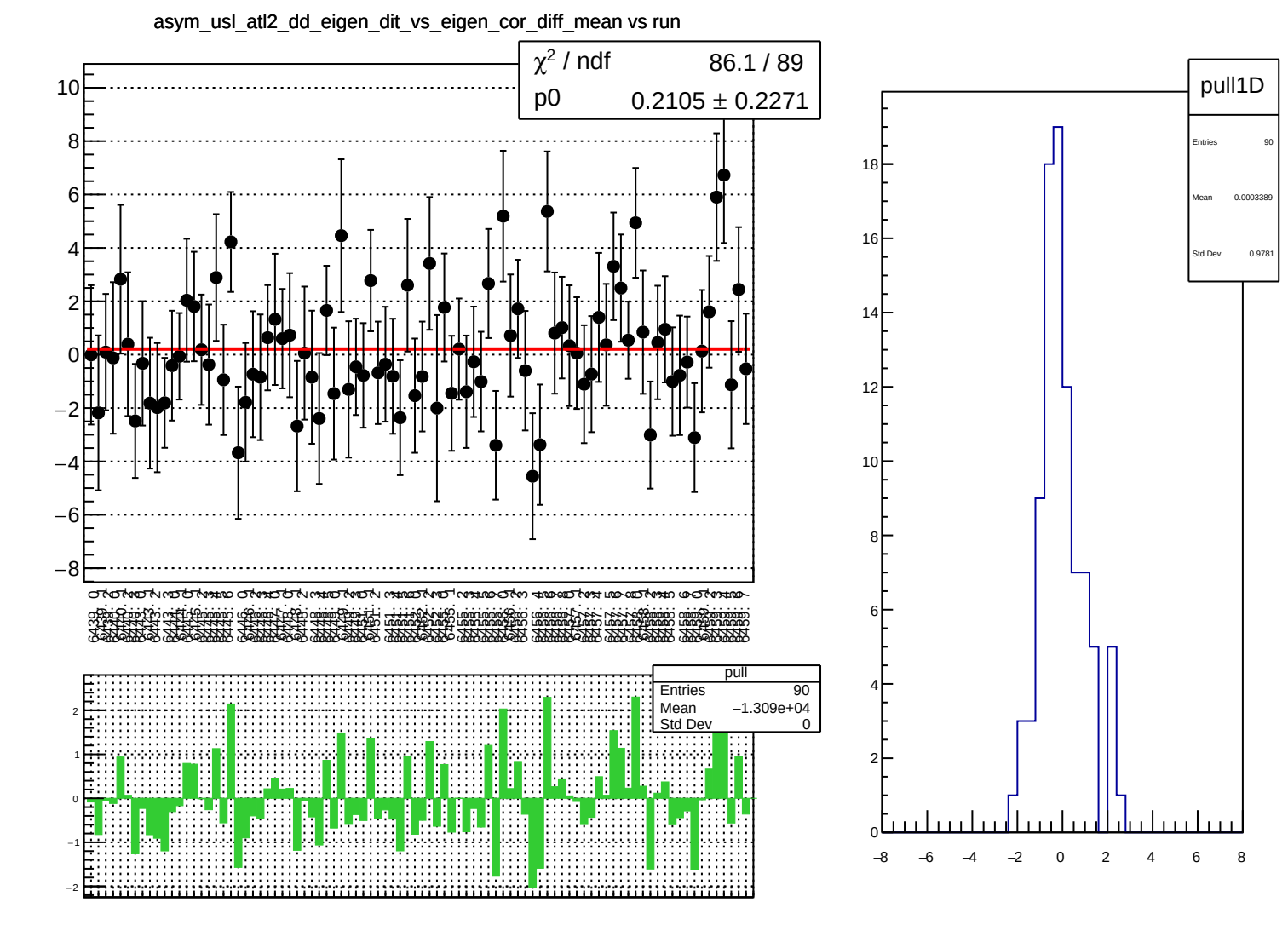

pull1D
Entries 90
Mean 0.01342
Std Dev 0.9112
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

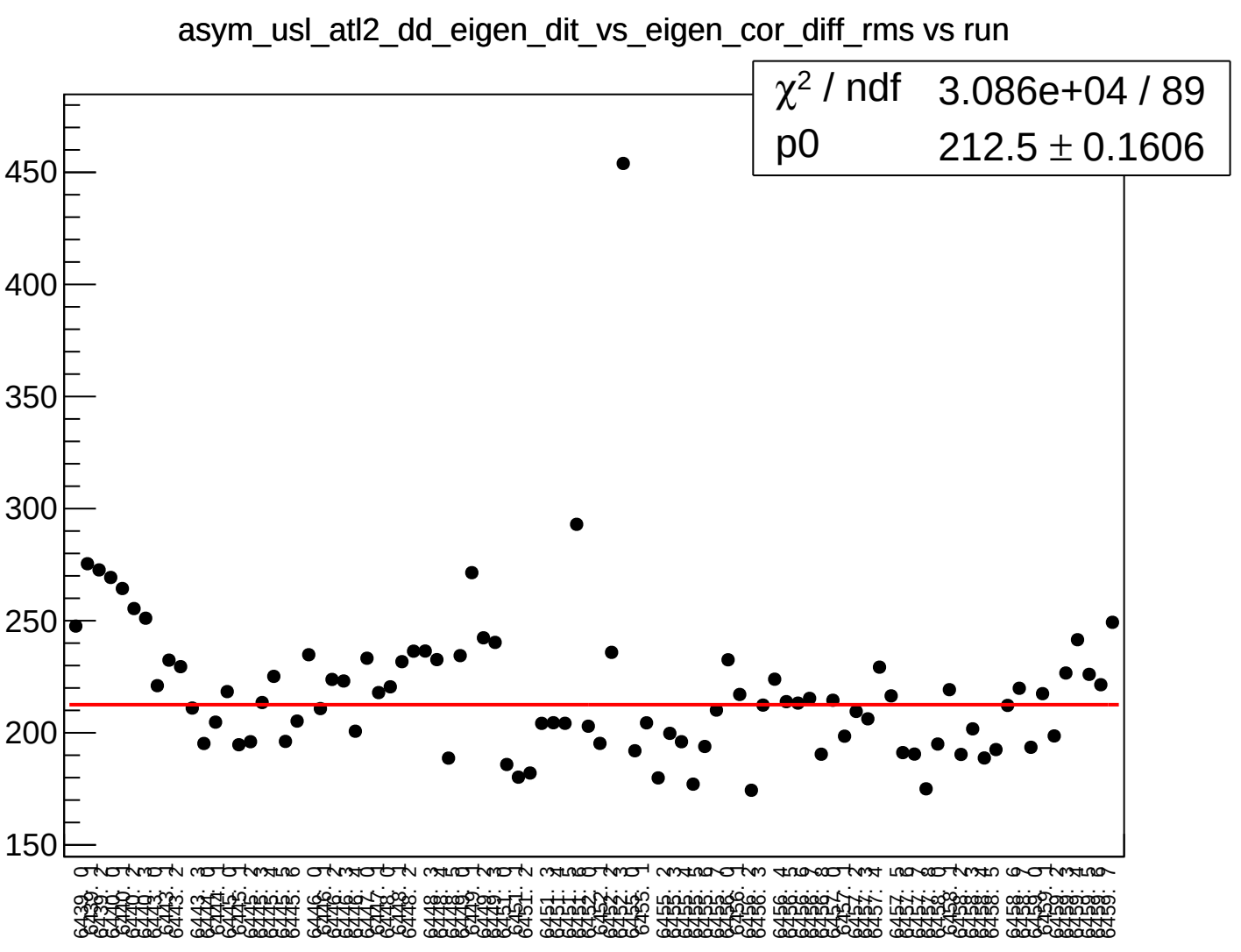

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4720 / 89
p0 0.009192 ± 6.895e−06
0.011
0.0105
0.01
0.0095
0.009
0.0085
0.008

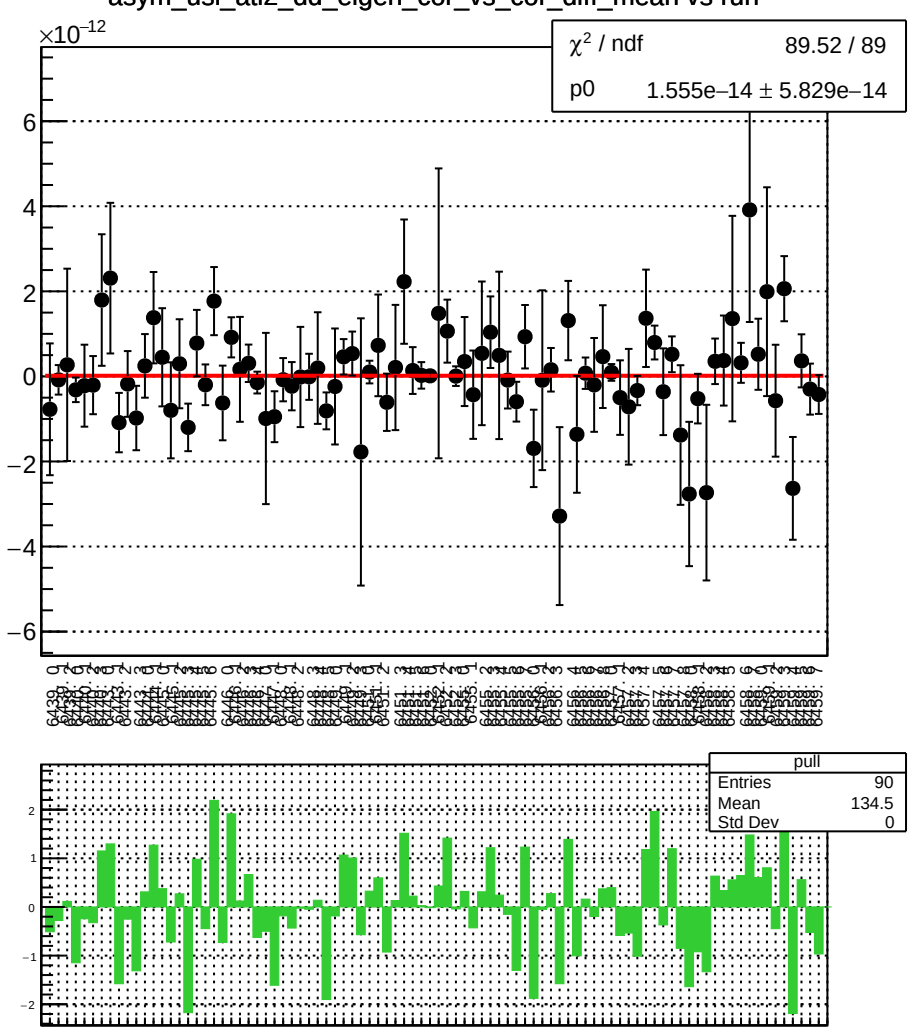

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.1 / 89
p0 0.2105 ± 0.2271
pull
Entries 90
Mean −1.309e+04
Std Dev 0

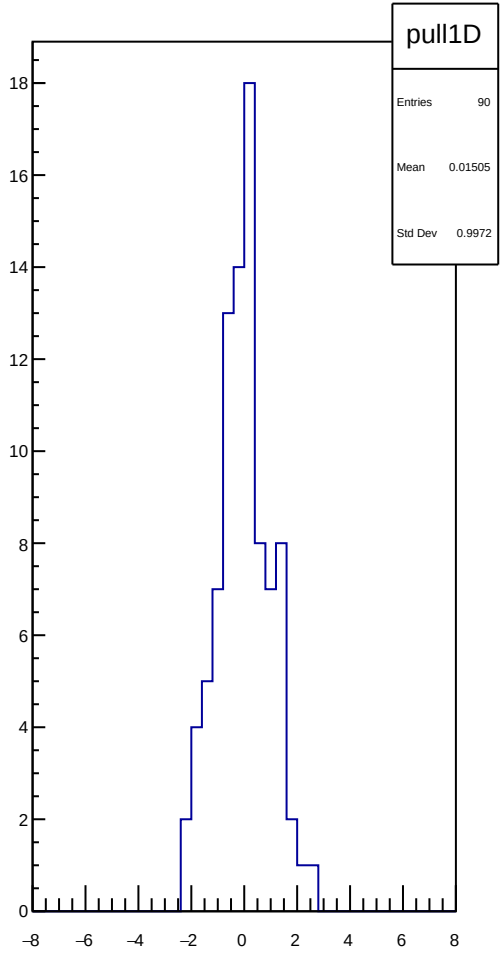

pull1D
Entries 90
Mean −0.0003389
Std Dev 0.9781

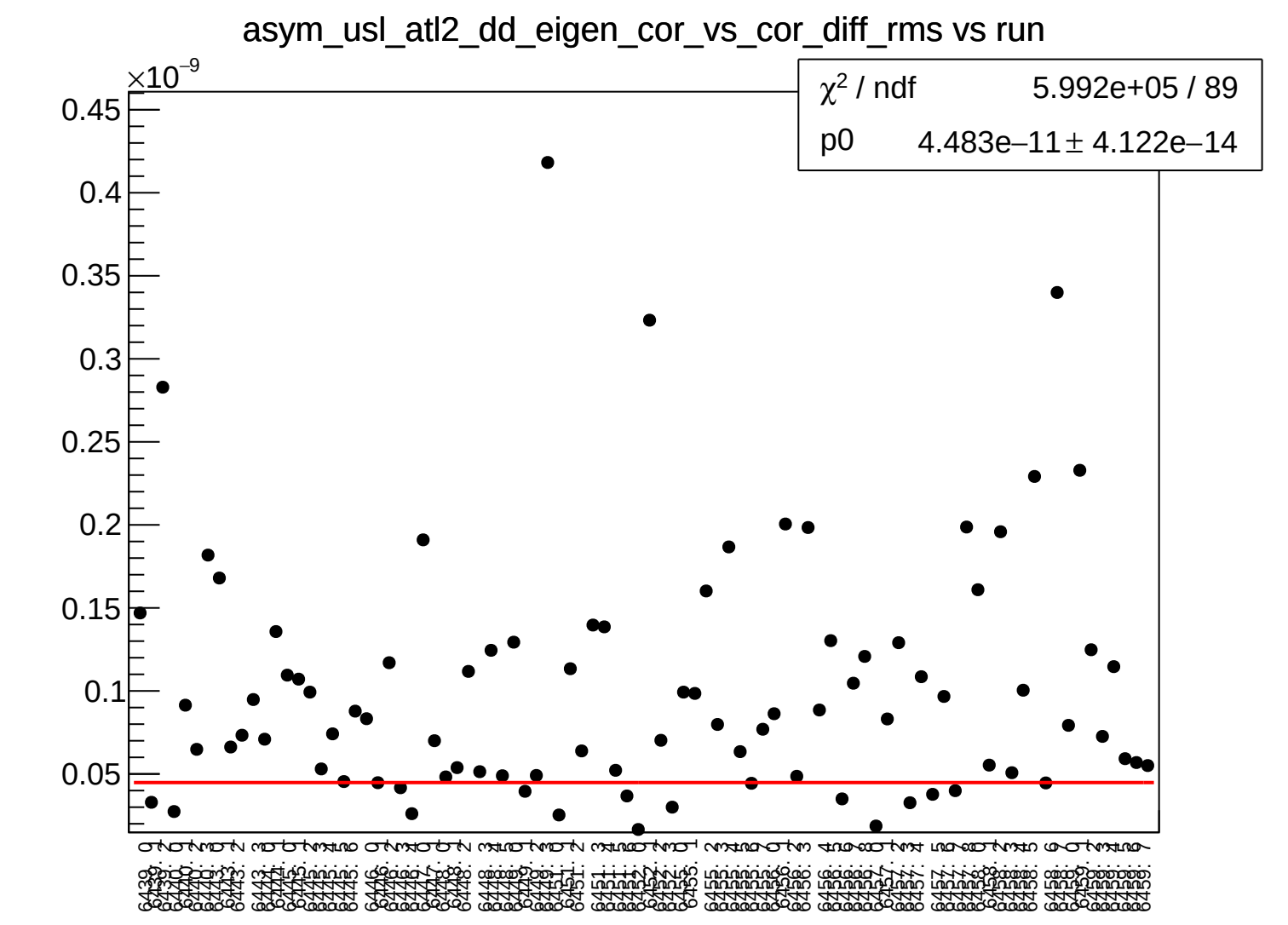

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.086e+04 / 89
p0 212.5 ± 0.1606
450
400
350
300
250
200
150

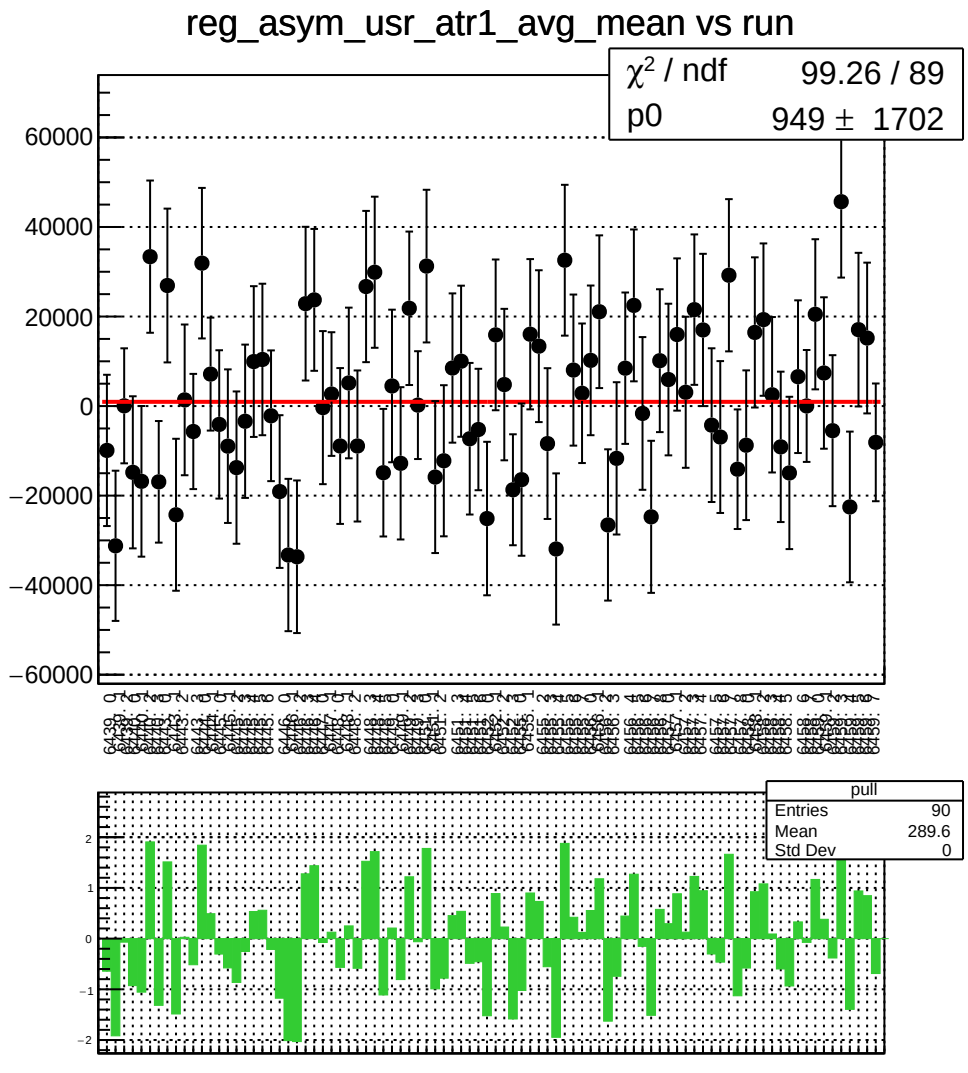

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.1 / 89
p0 0.2105 ± 0.2271
pull
Entries 90
Mean −1.309e+04
Std Dev 0
pull1D
Entries 90
Mean −0.0003389
Std Dev 0.9781

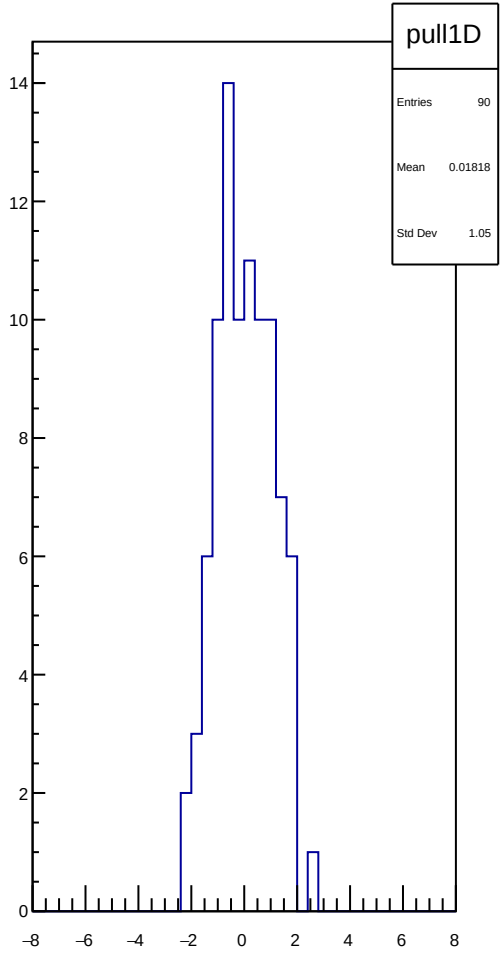

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.086e+04 / 89
p0 212.5 ± 0.1606
450
400
350
300
250
200
150

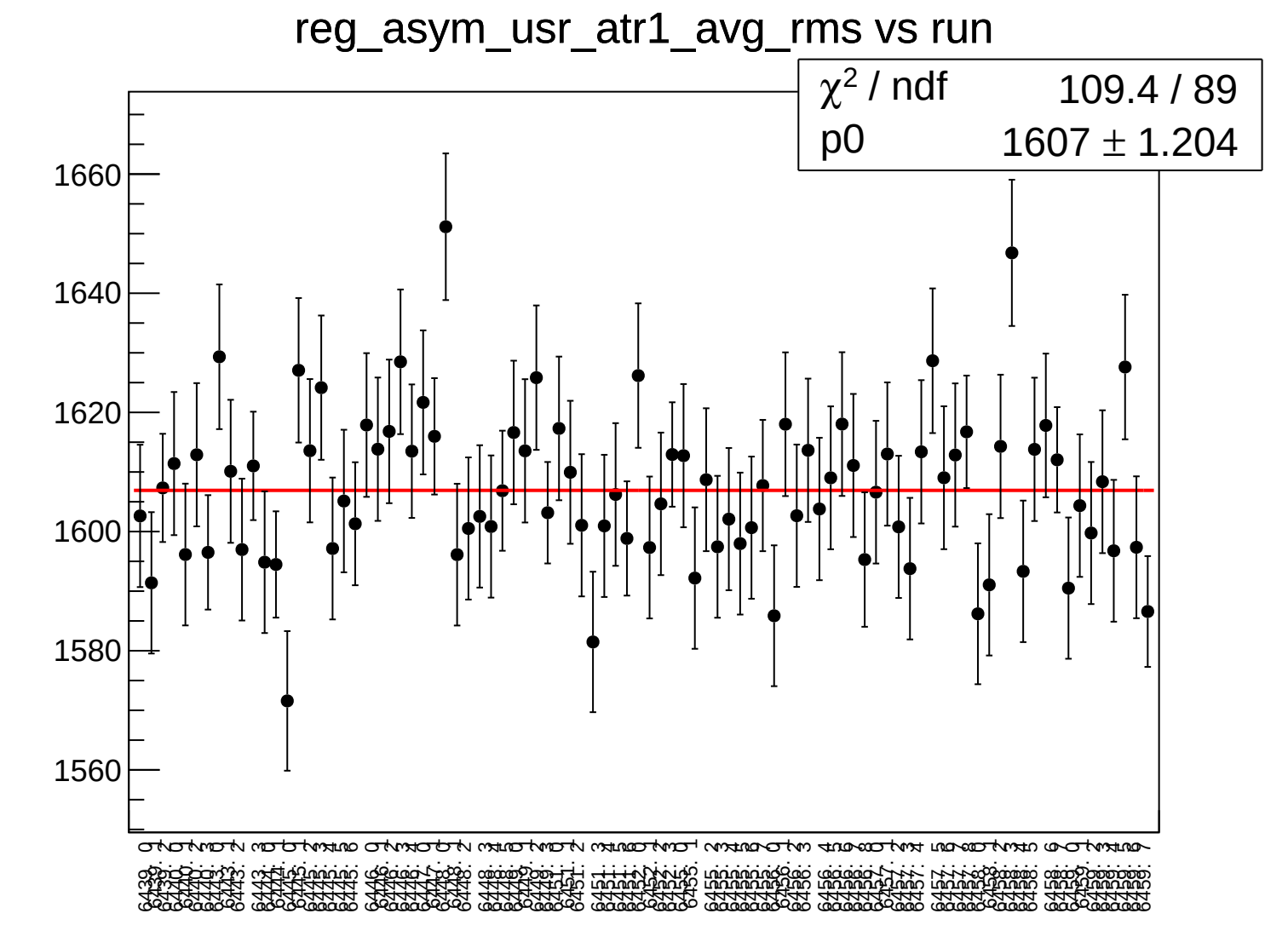

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.52 / 89
p0 1.555e−14 ± 5.829e−14
pull
Entries 90
Mean 134.5
Std Dev 0

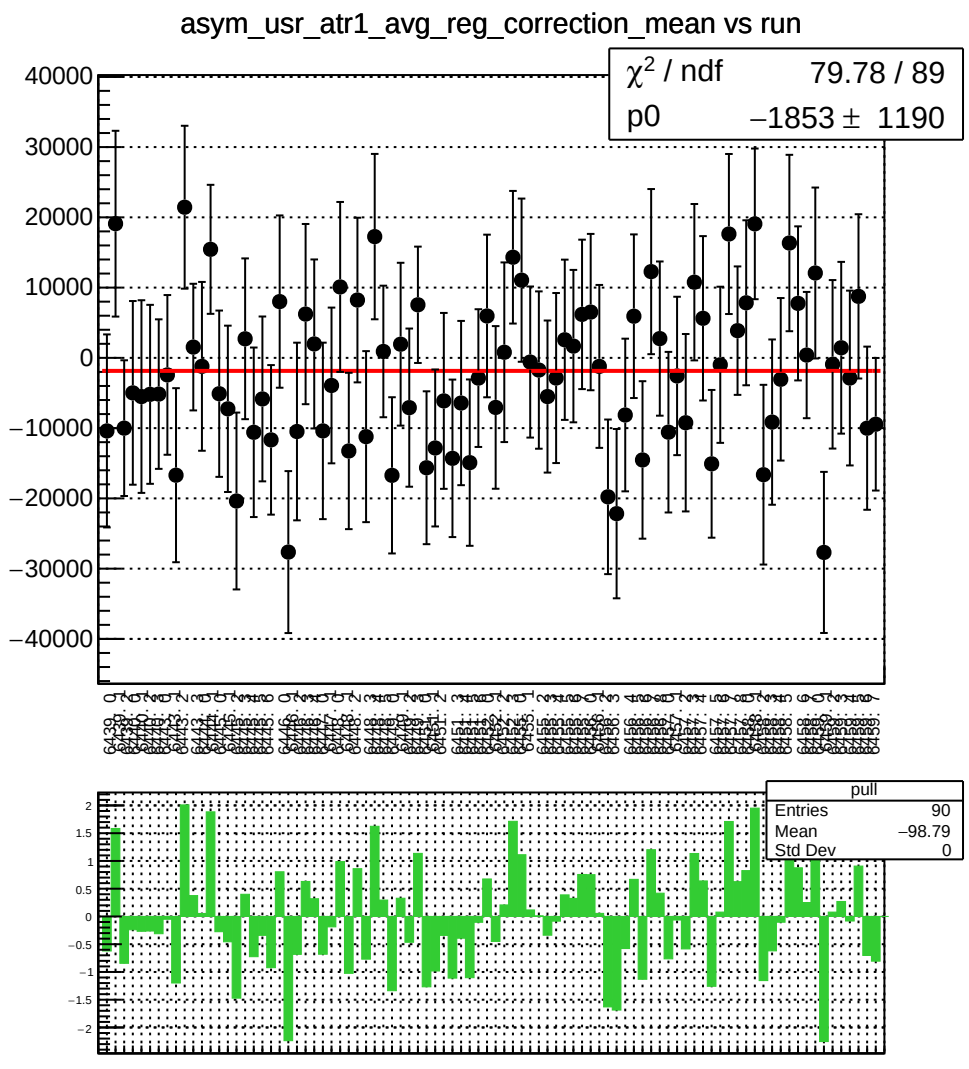

pull1D
Entries 90
Mean 0.01505
Std Dev 0.9972

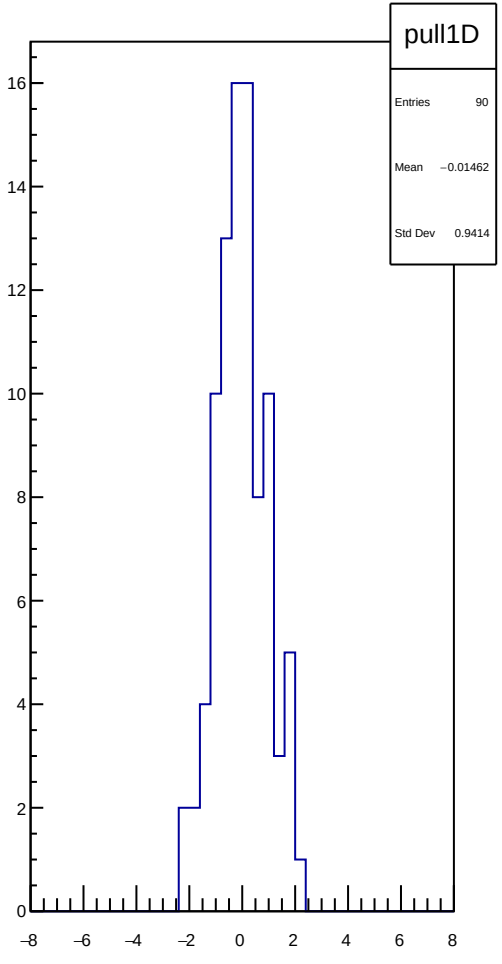

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.992e+05 / 89
p0 4.483e−11 ± 4.122e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

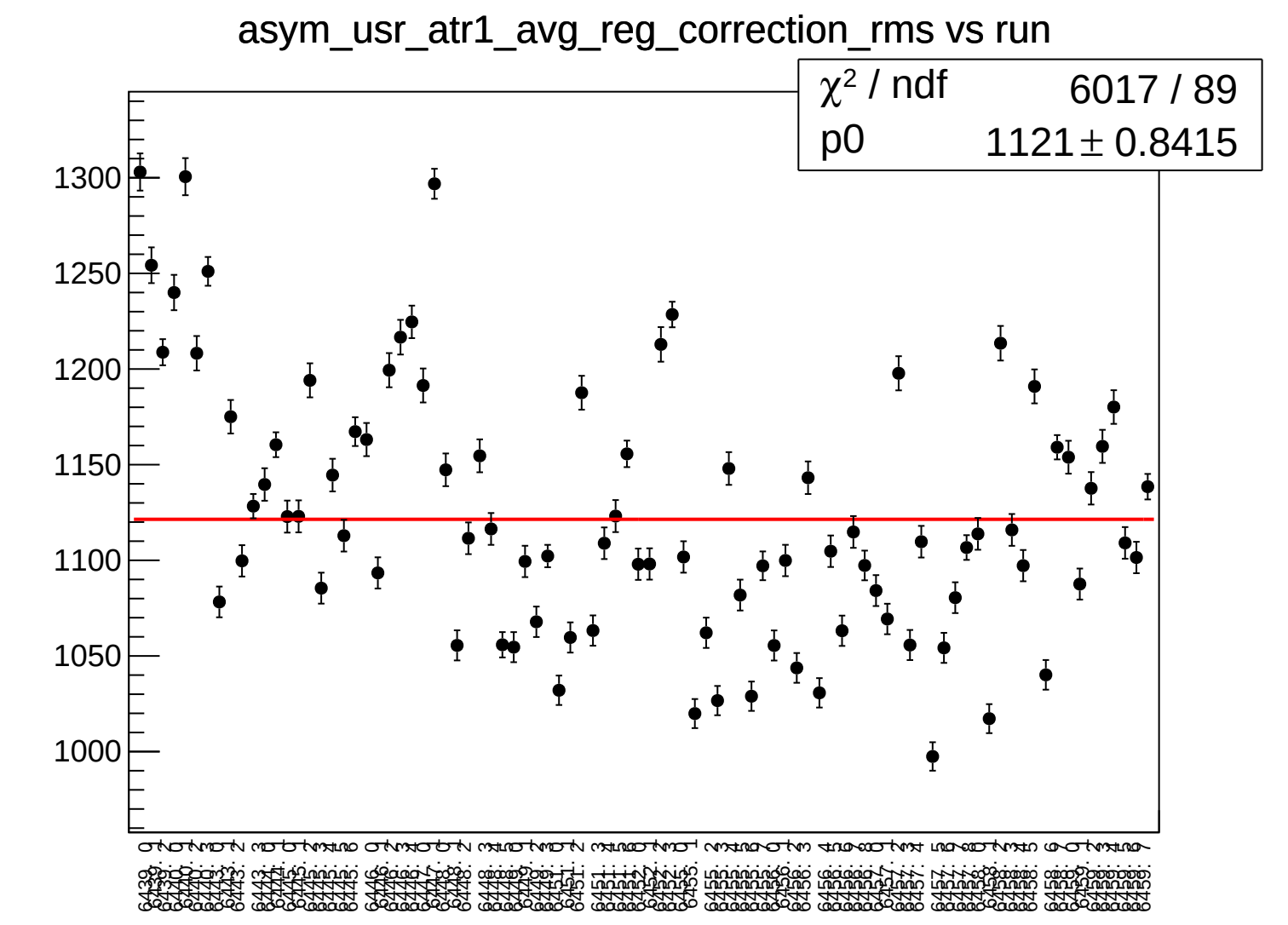

reg_asym_usr_atr1_avg_mean vs run
χ² / ndf 99.26 / 89
p0 949 ± 1702
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 289.6
Std Dev 0
2
1
0
−1
−2

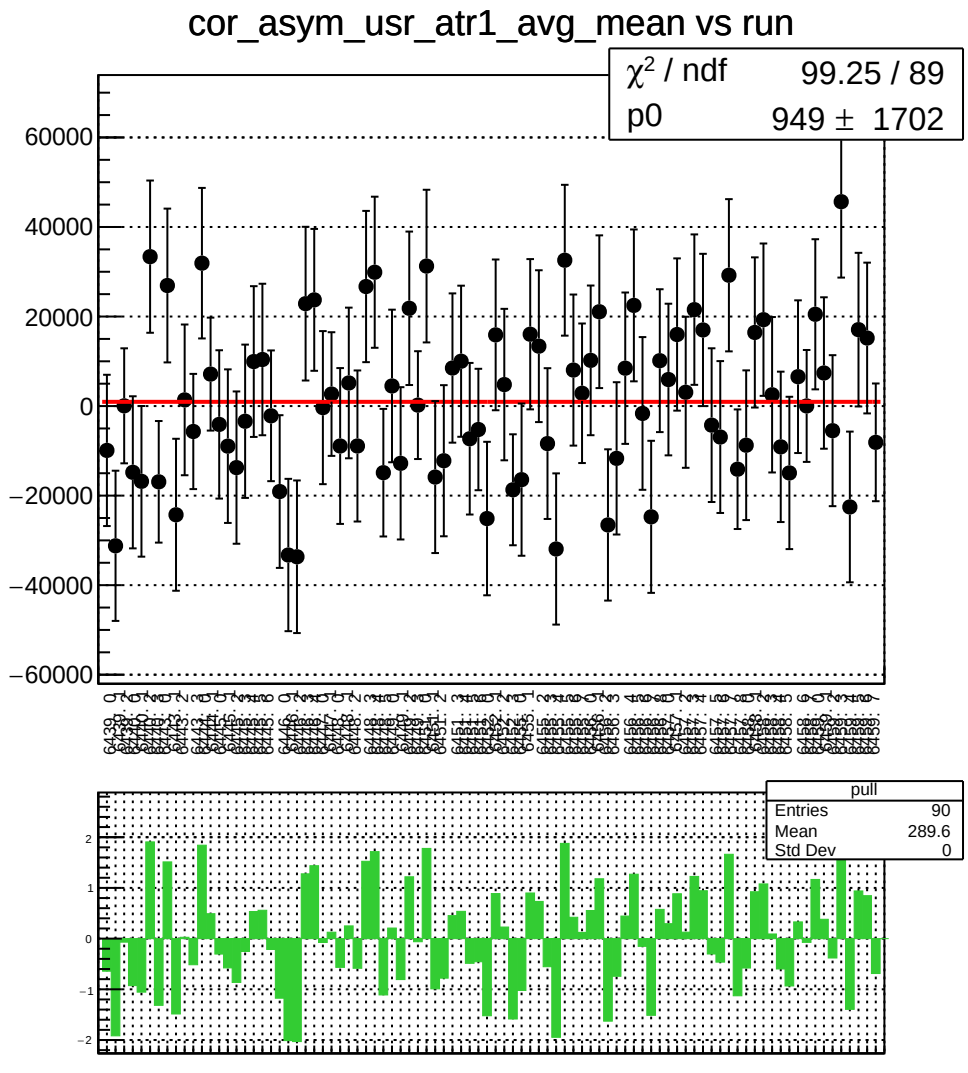

pull1D
Entries 90
Mean 0.01818
Std Dev 1.05
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

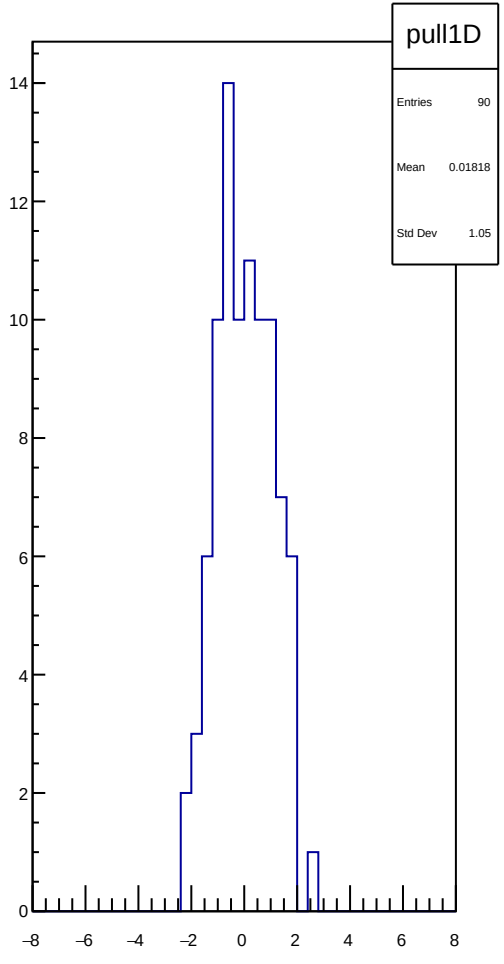

reg_asym_usr_atr1_avg_rms vs run
χ² / ndf 109.4 / 89
p0 1607 ± 1.204
1660
1640
1620
1600
1580
1560

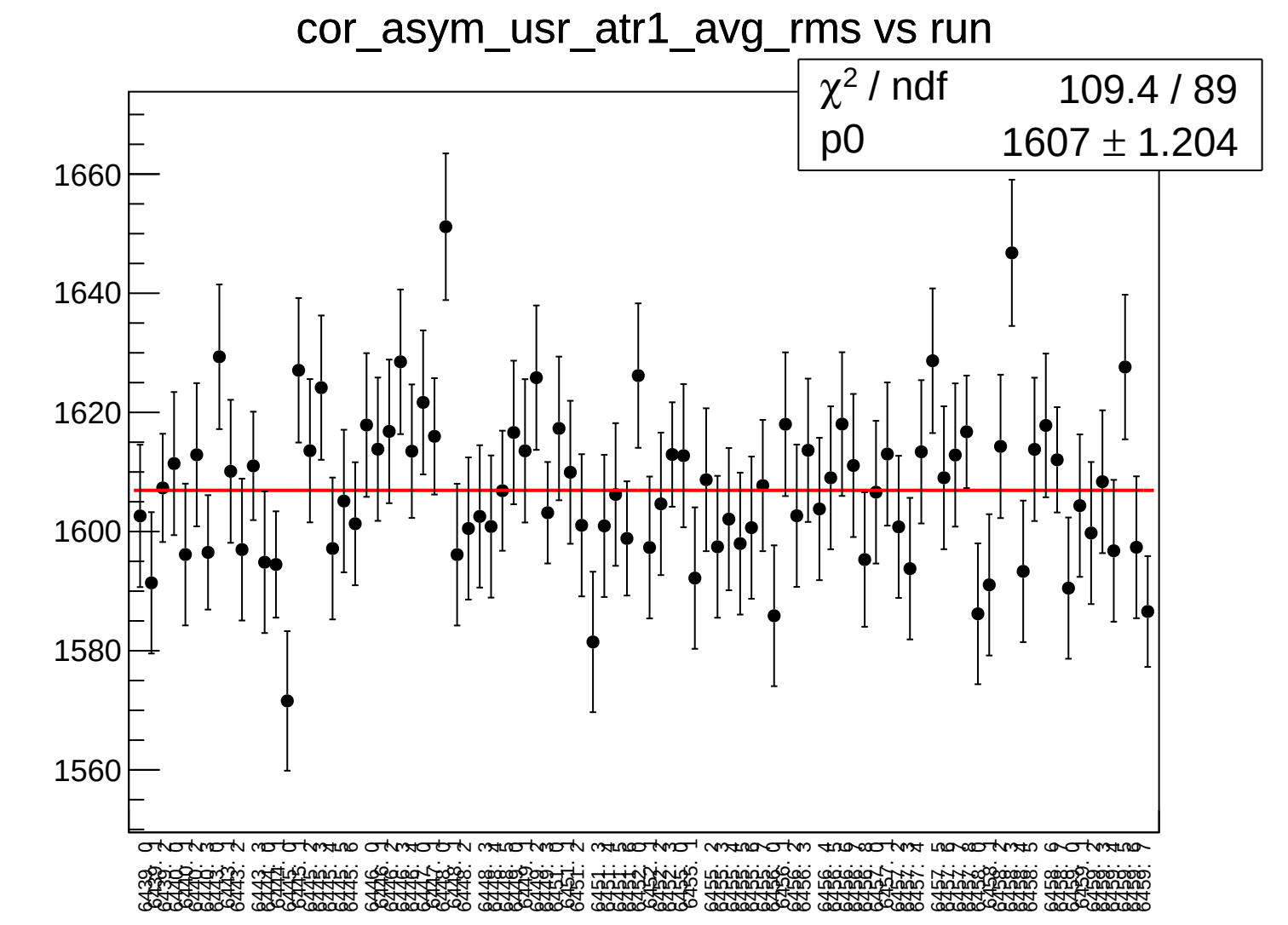

asym_usr_atr1_avg_reg_correction_mean vs run
χ² / ndf 79.78 / 89
p0 −1853 ± 1190
pull
Entries 90
Mean −98.79
Std Dev 0

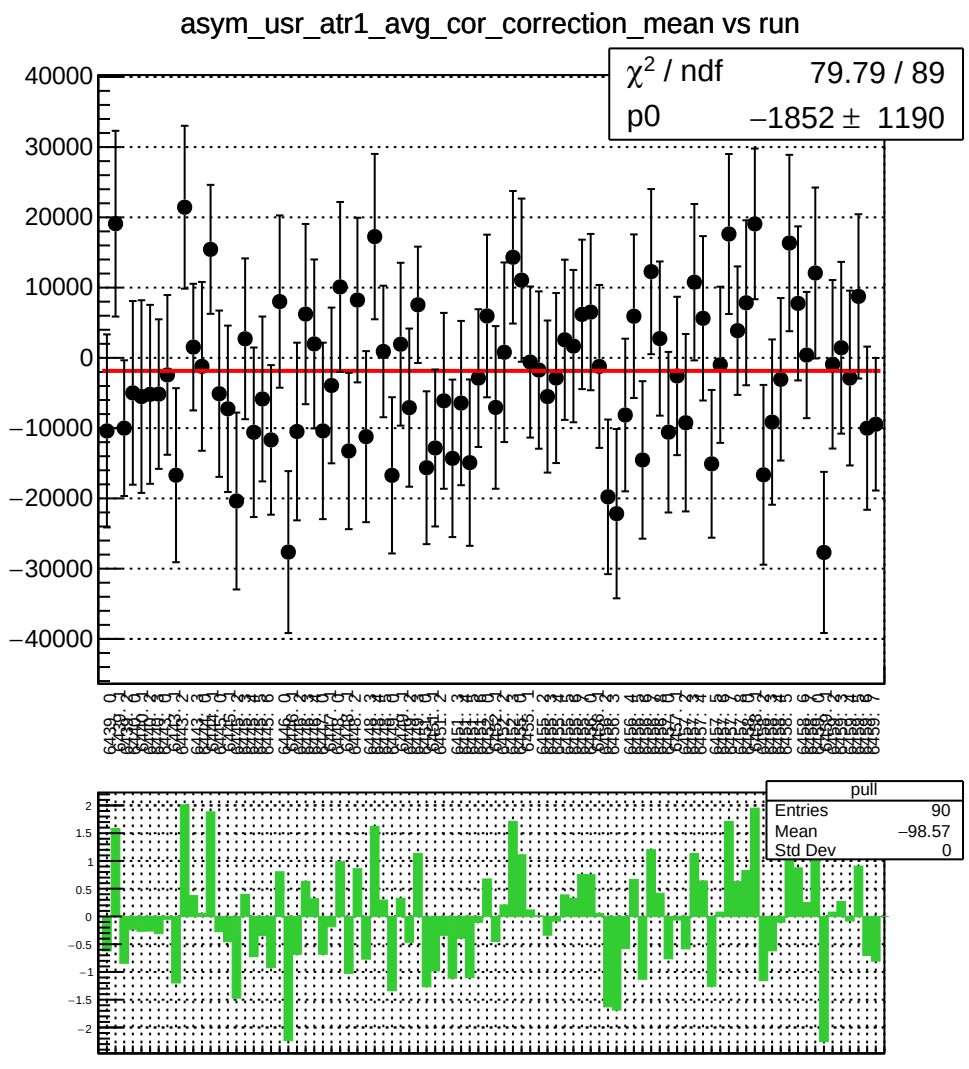

pull1D
Entries 90
Mean −0.01462
Std Dev 0.9414

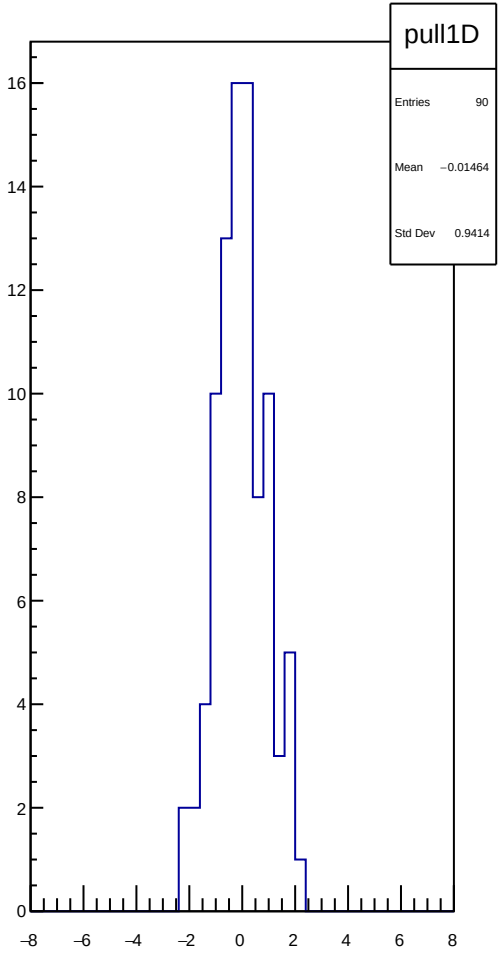

asym_usr_atr1_avg_reg_correction_rms vs run
χ² / ndf 6017 / 89
p0 1121 ± 0.8415
1300
1250
1200
1150
1100
1050
1000

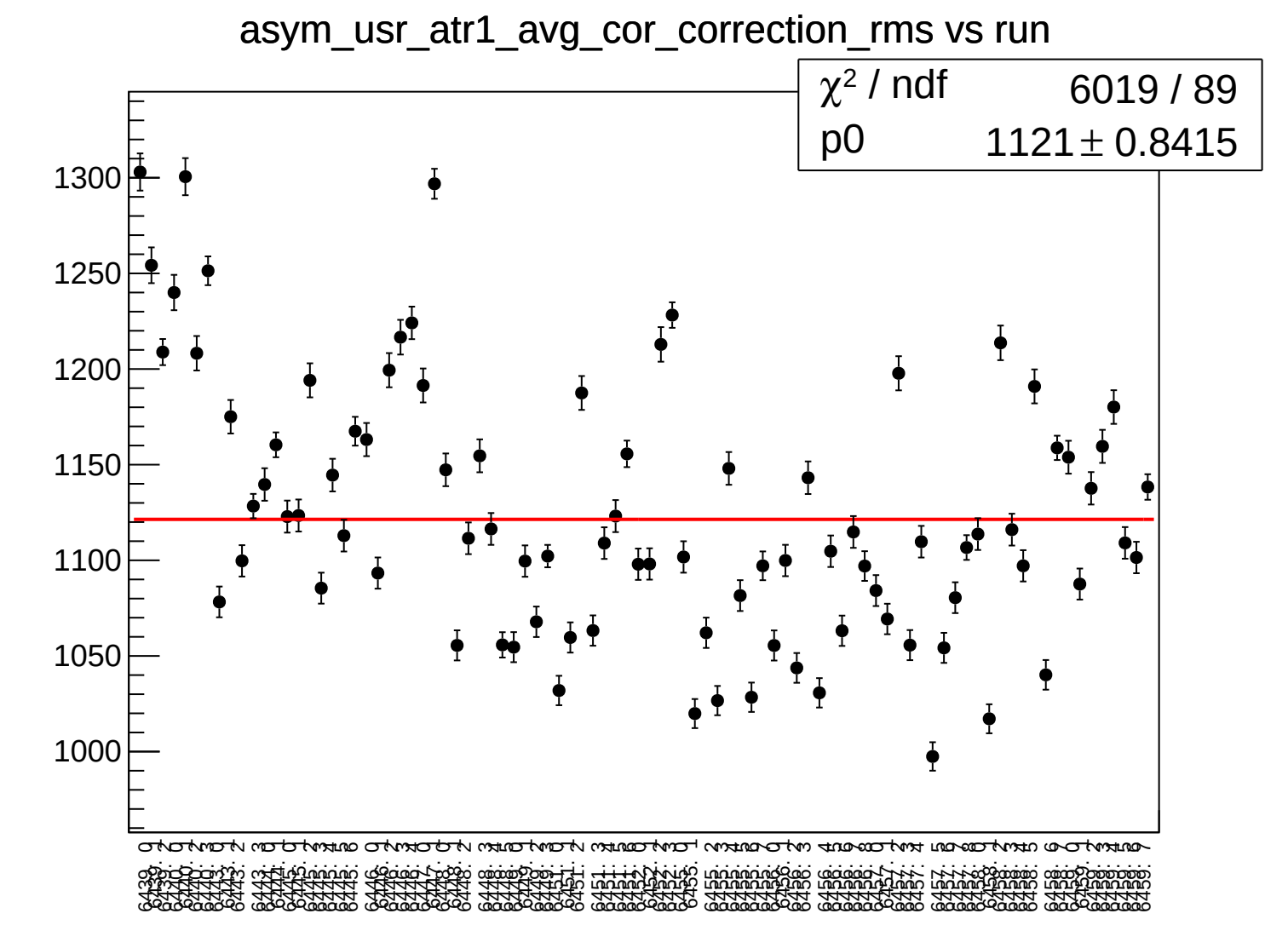

cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 99.25 / 89
p0 949 ± 1702
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 289.6
Std Dev 0
2
1
0
−1
−2

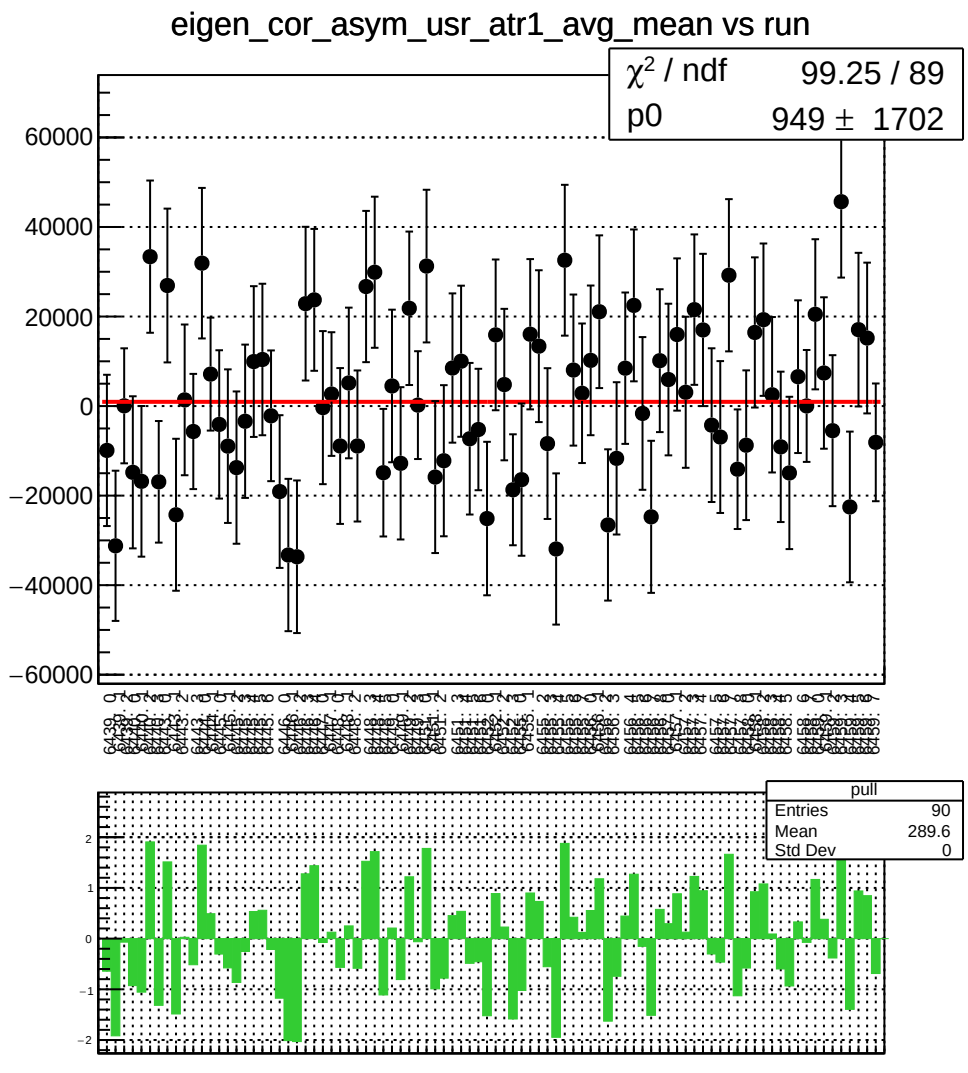

pull1D
Entries 90
Mean 0.01818
Std Dev 1.05
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

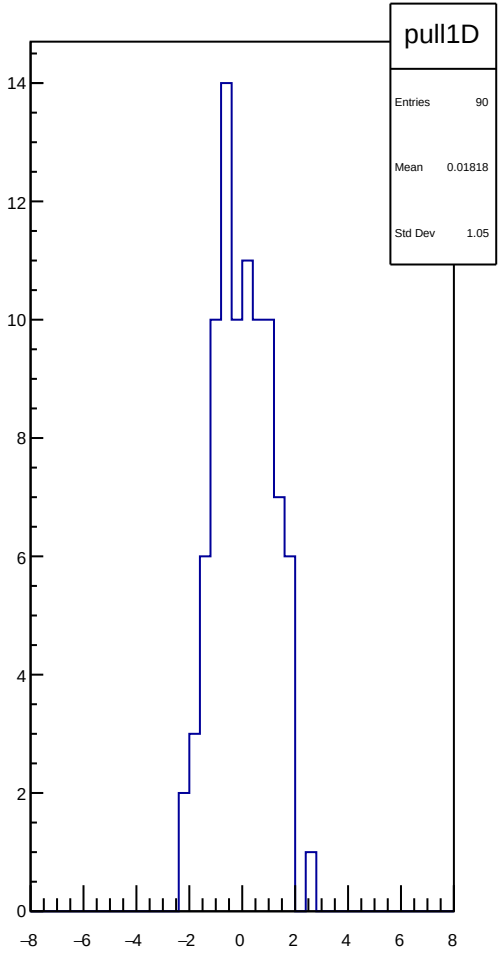

cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 109.4 / 89
p0 1607 ± 1.204
1660
1640
1620
1600
1580
1560

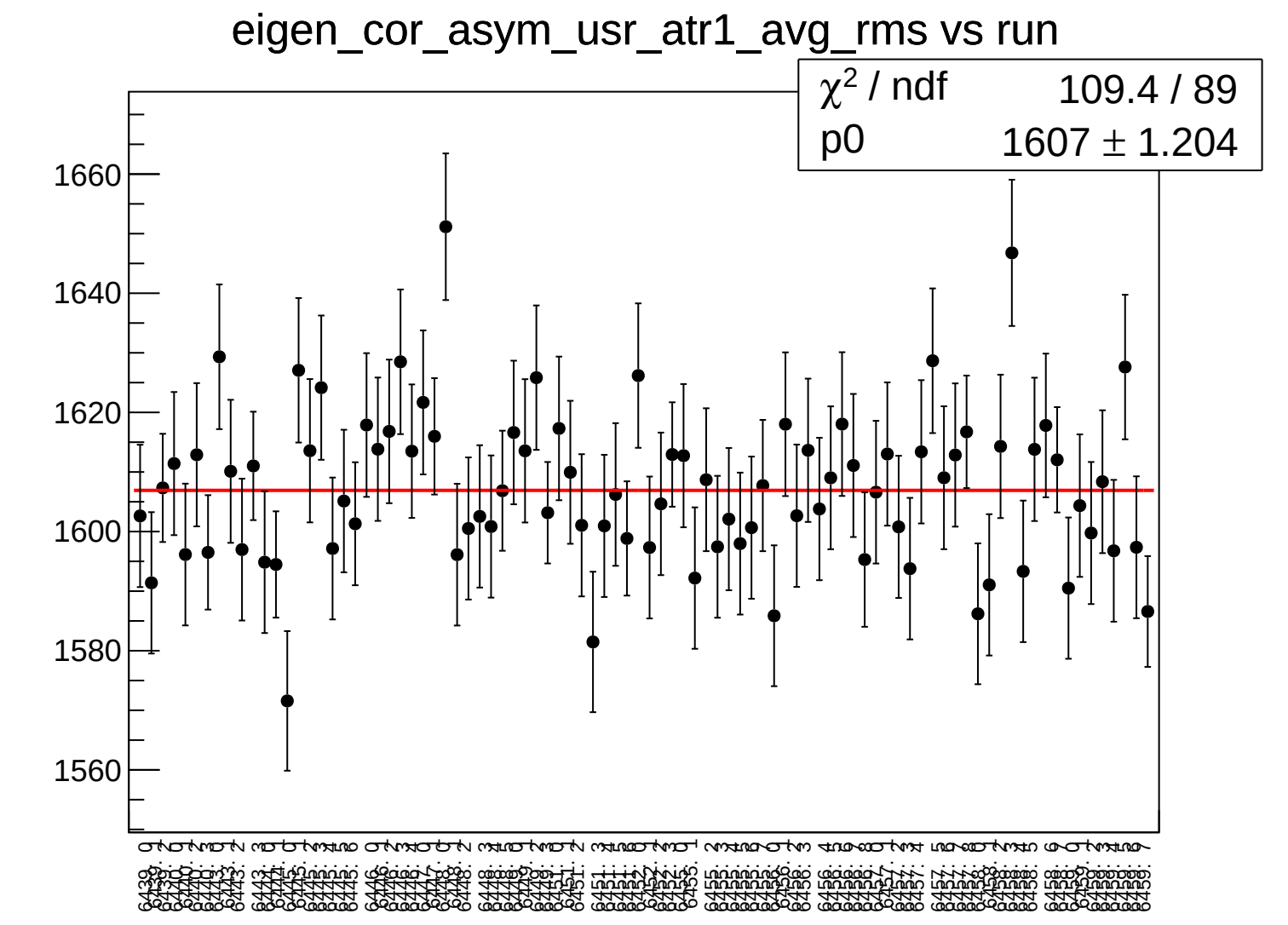

asym_usr_atr1_avg_cor_correction_mean vs run
χ² / ndf 79.79 / 89
p0 −1852 ± 1190
pull
Entries 90
Mean −98.57
Std Dev 0

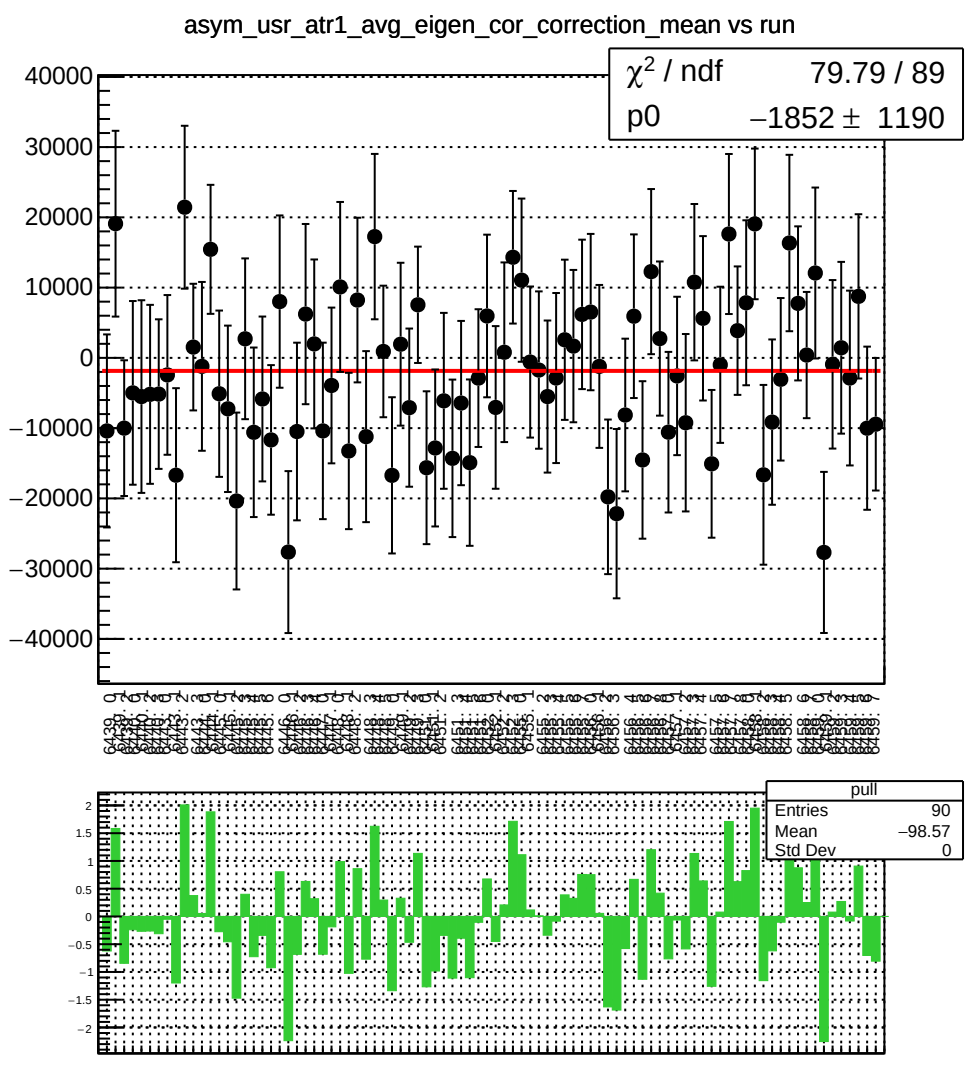

pull1D
Entries 90
Mean −0.01464
Std Dev 0.9414

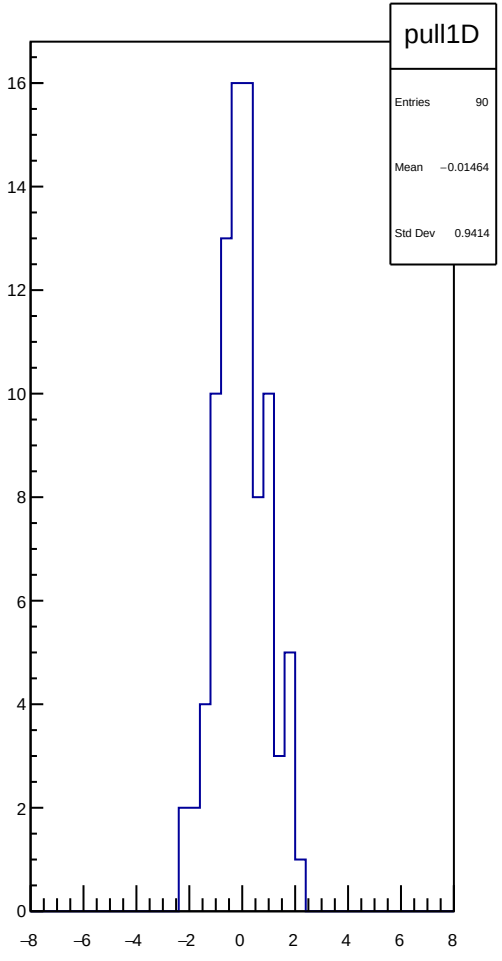

asym_usr_atr1_avg_cor_correction_rms vs run
χ² / ndf 6019 / 89
p0 1121 ± 0.8415
1300
1250
1200
1150
1100
1050
1000

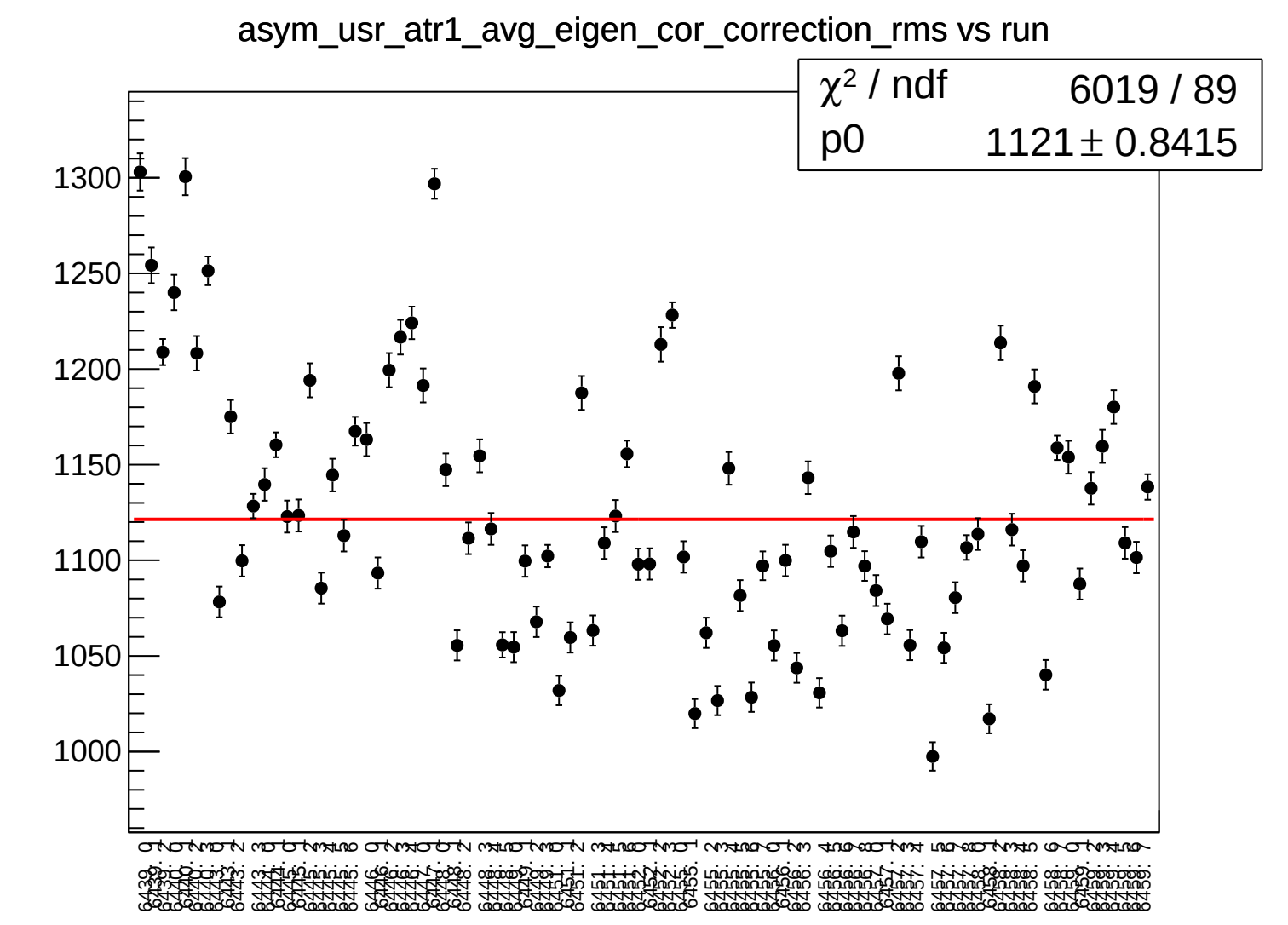

eigen_cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 99.25 / 89
p0 949 ± 1702
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 289.6
Std Dev 0
2
1
0
−1
−2

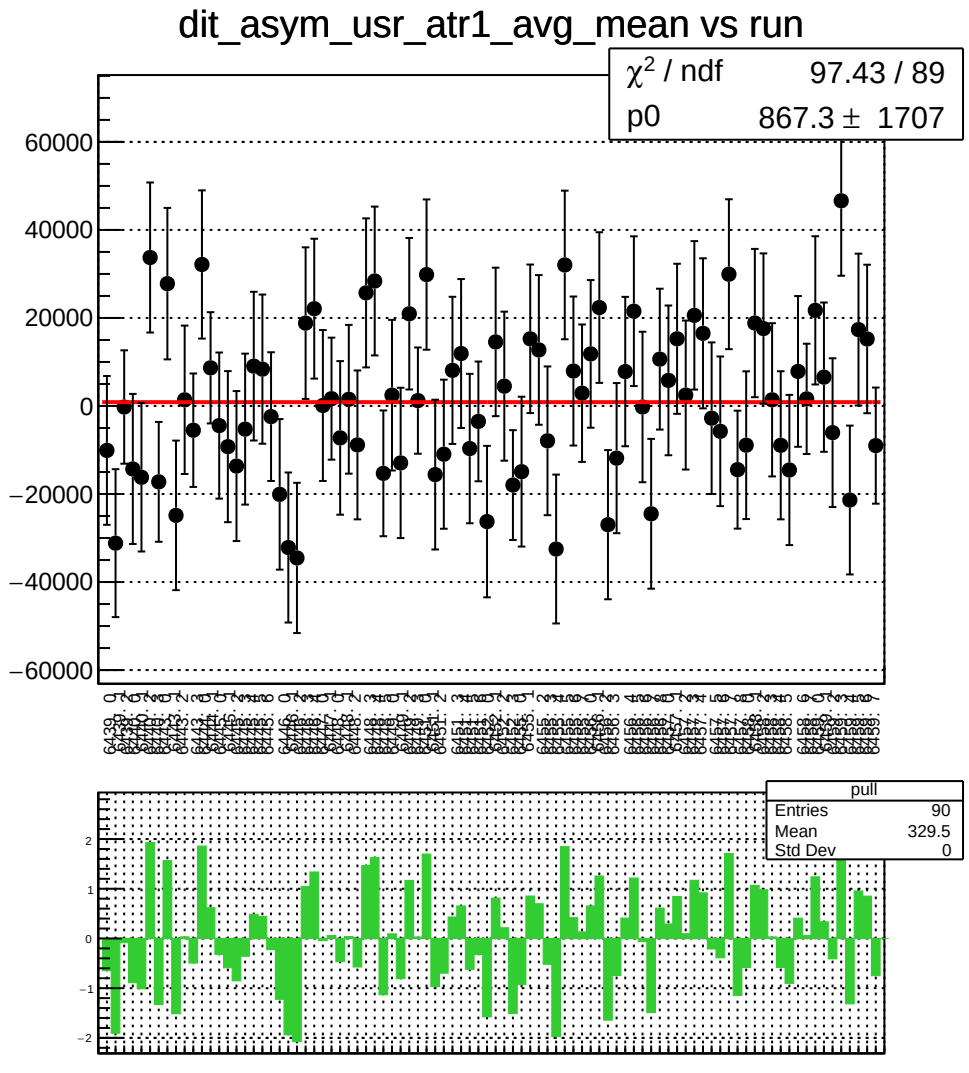

pull1D
Entries 90
Mean 0.01818
Std Dev 1.05
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

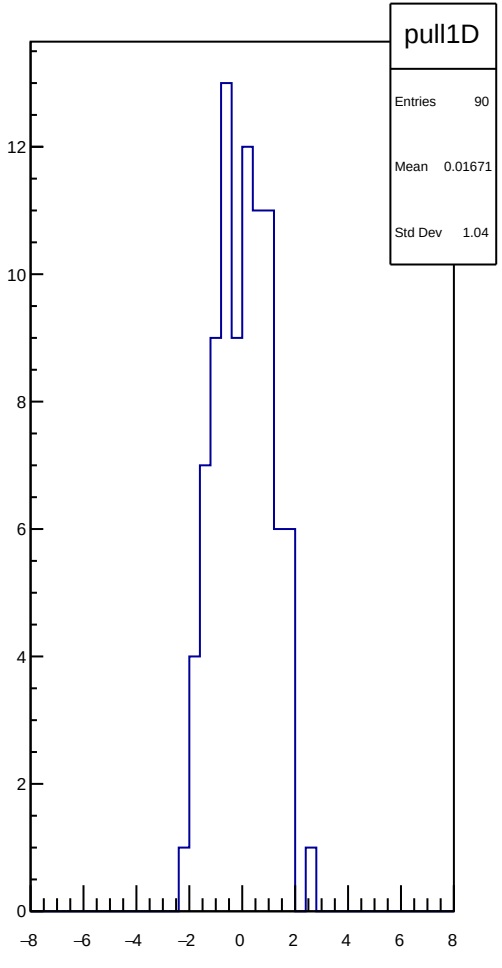

eigen_cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 109.4 / 89
p0 1607 ± 1.204
1660
1640
1620
1600
1580
1560

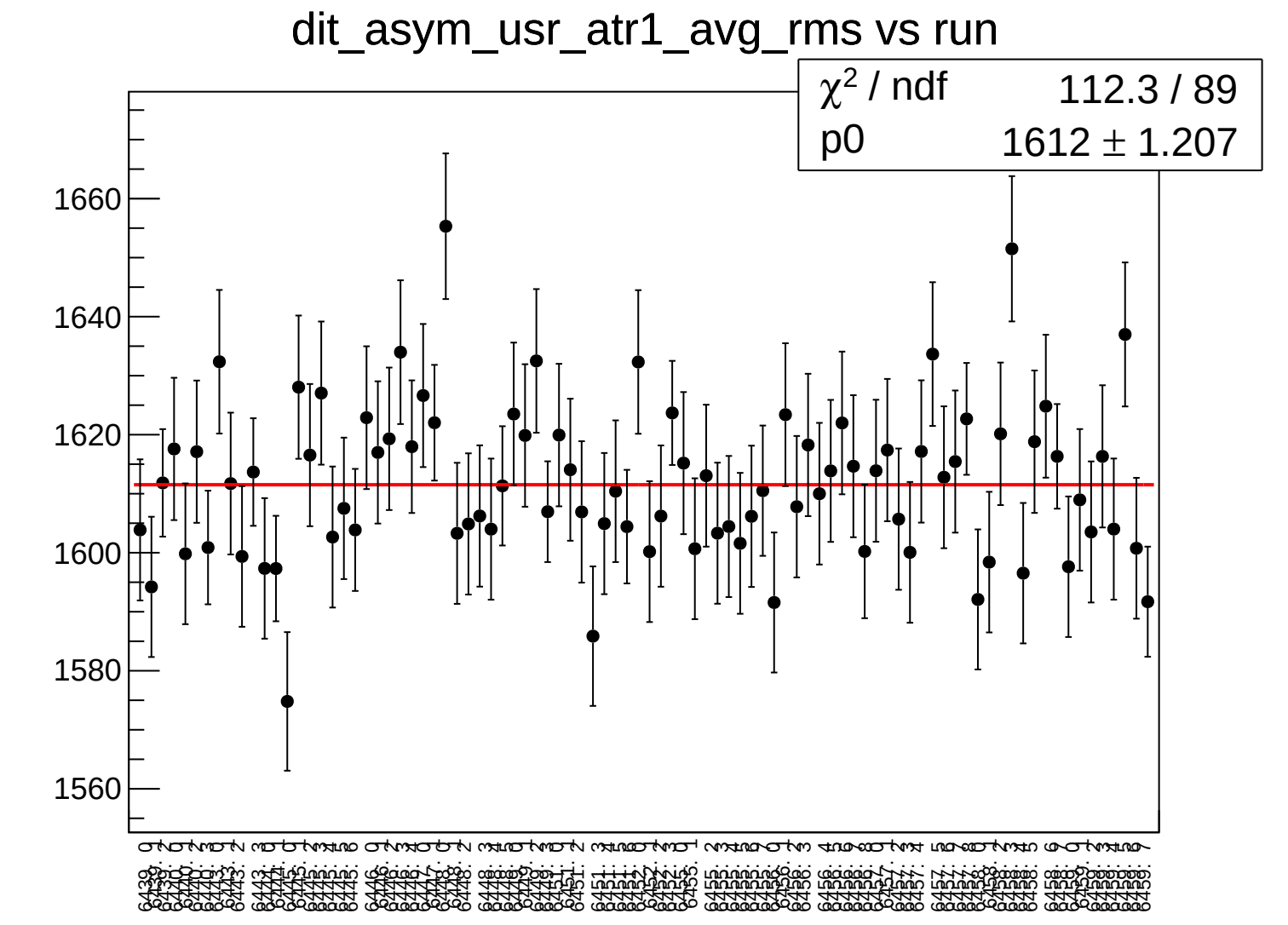

asym_usr_atr1_avg_eigen_cor_correction_mean vs run
χ² / ndf 79.79 / 89
p0 −1852 ± 1190
pull
Entries 90
Mean −98.57
Std Dev 0

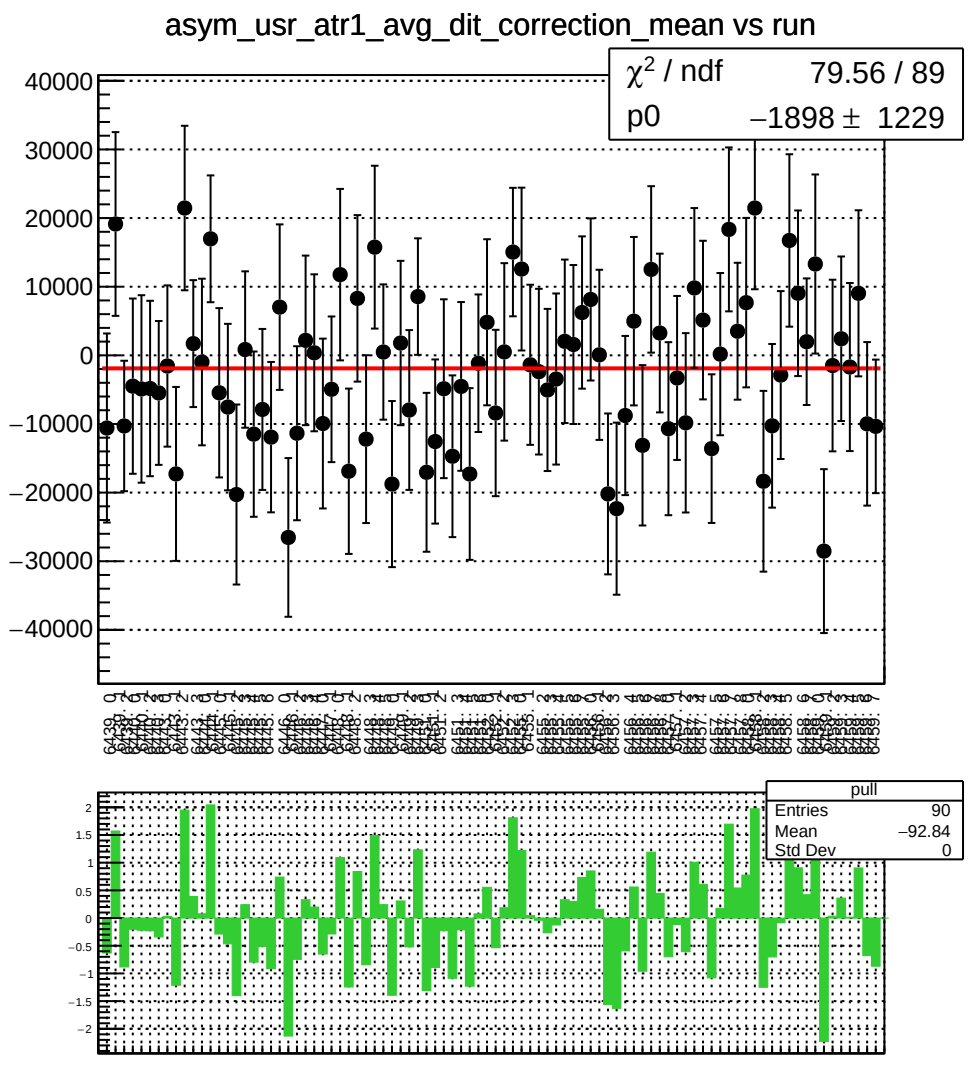

pull1D
Entries 90
Mean −0.01464
Std Dev 0.9414

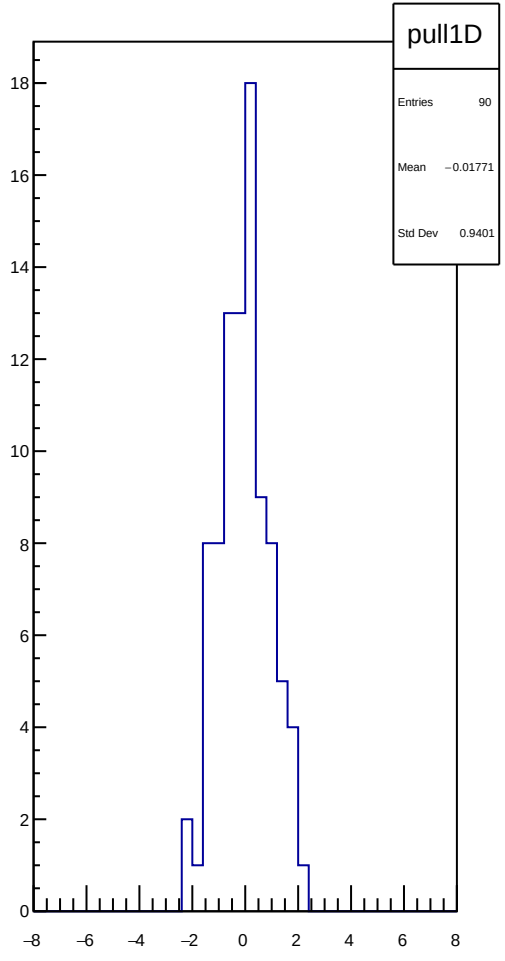

asym_usr_atr1_avg_eigen_cor_correction_rms vs run
χ² / ndf 6019 / 89
p0 1121 ± 0.8415
1300
1250
1200
1150
1100
1050
1000

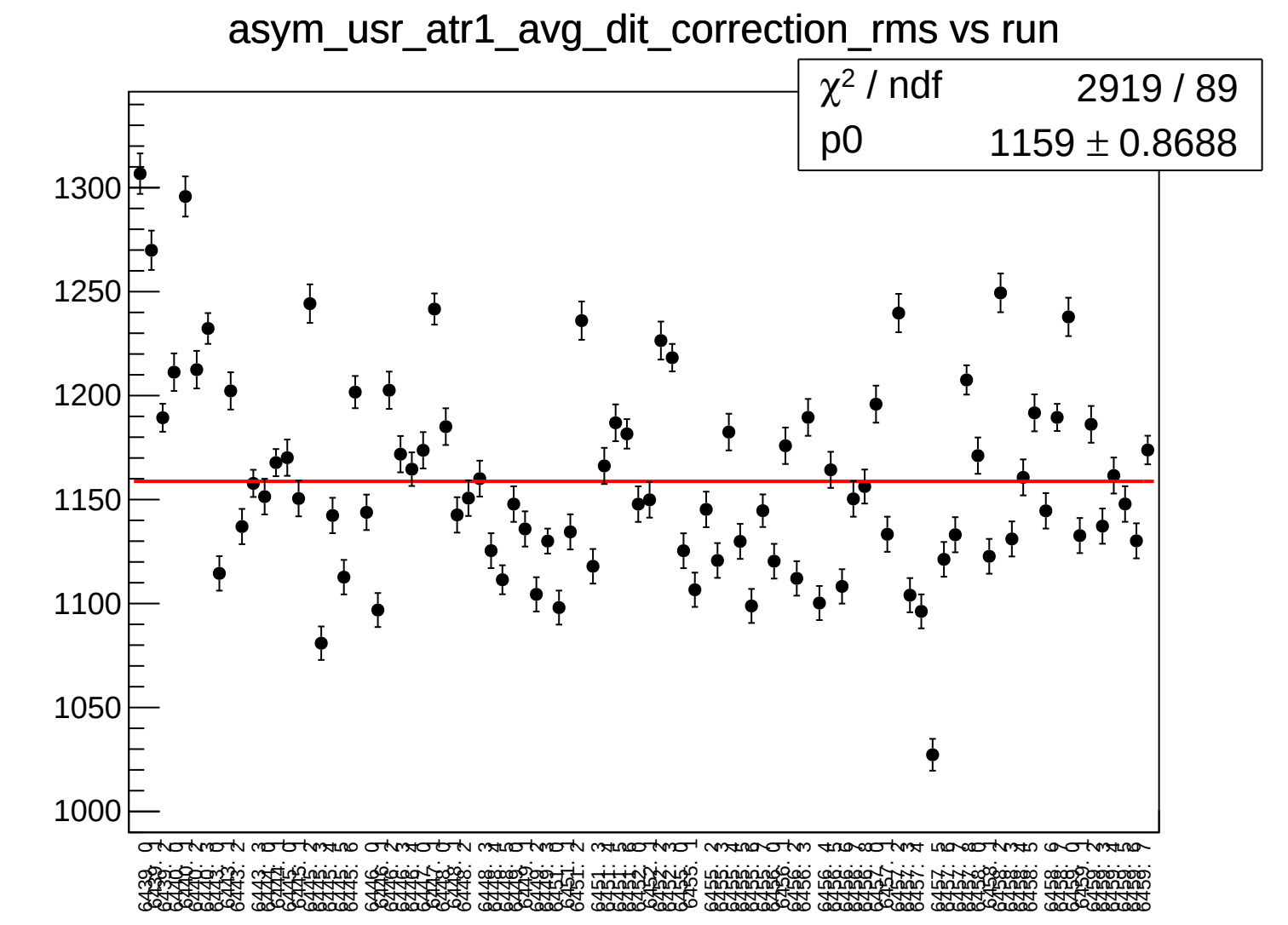

dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 97.43 / 89
p0 867.3 ± 1707
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 329.5
Std Dev 0
2
1
0
−1
−2

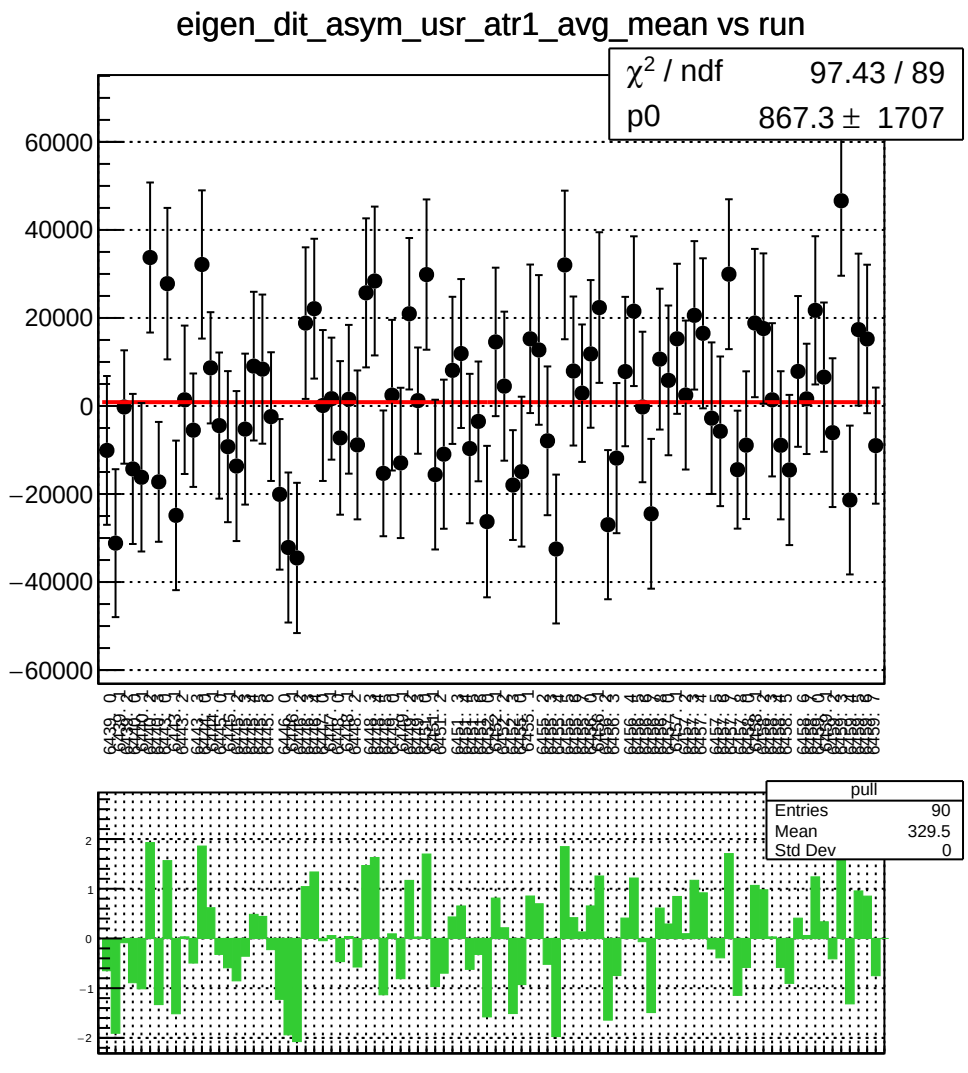

pull1D
Entries 90
Mean 0.01671
Std Dev 1.04
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

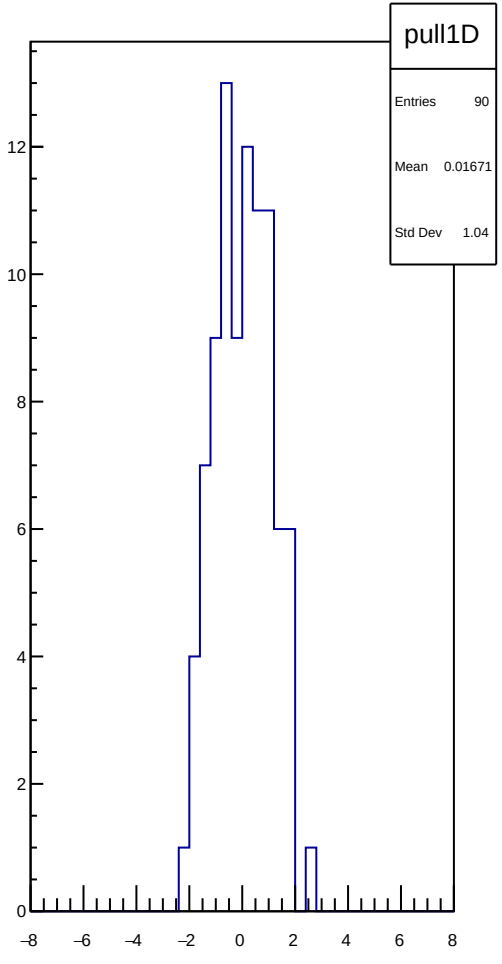

dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 112.3 / 89
p0 1612 ± 1.207
1660
1640
1620
1600
1580
1560

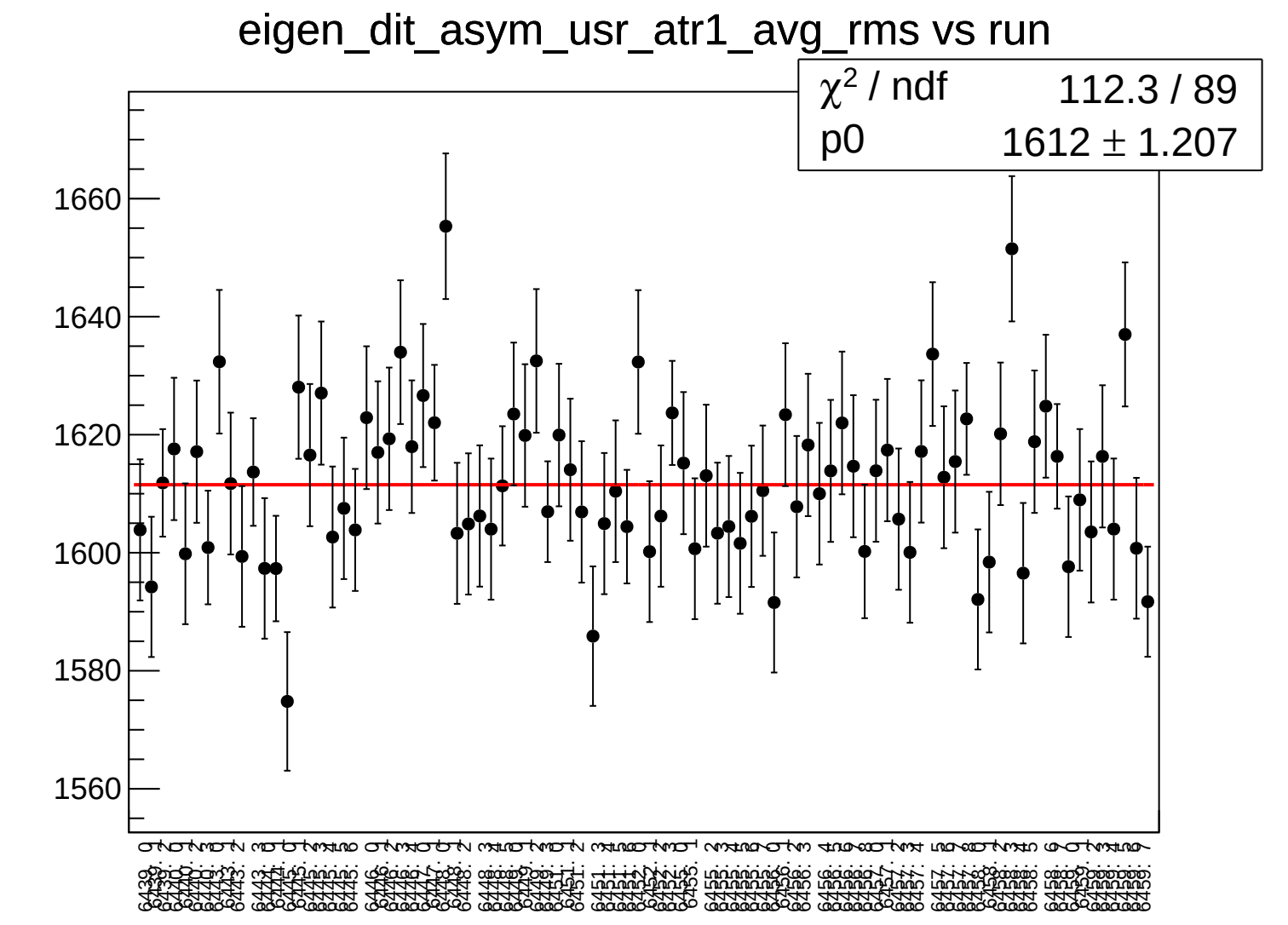

asym_usr_atr1_avg_dit_correction_mean vs run
χ² / ndf 79.56 / 89
p0 −1898 ± 1229
pull
Entries 90
Mean −92.84
Std Dev 0

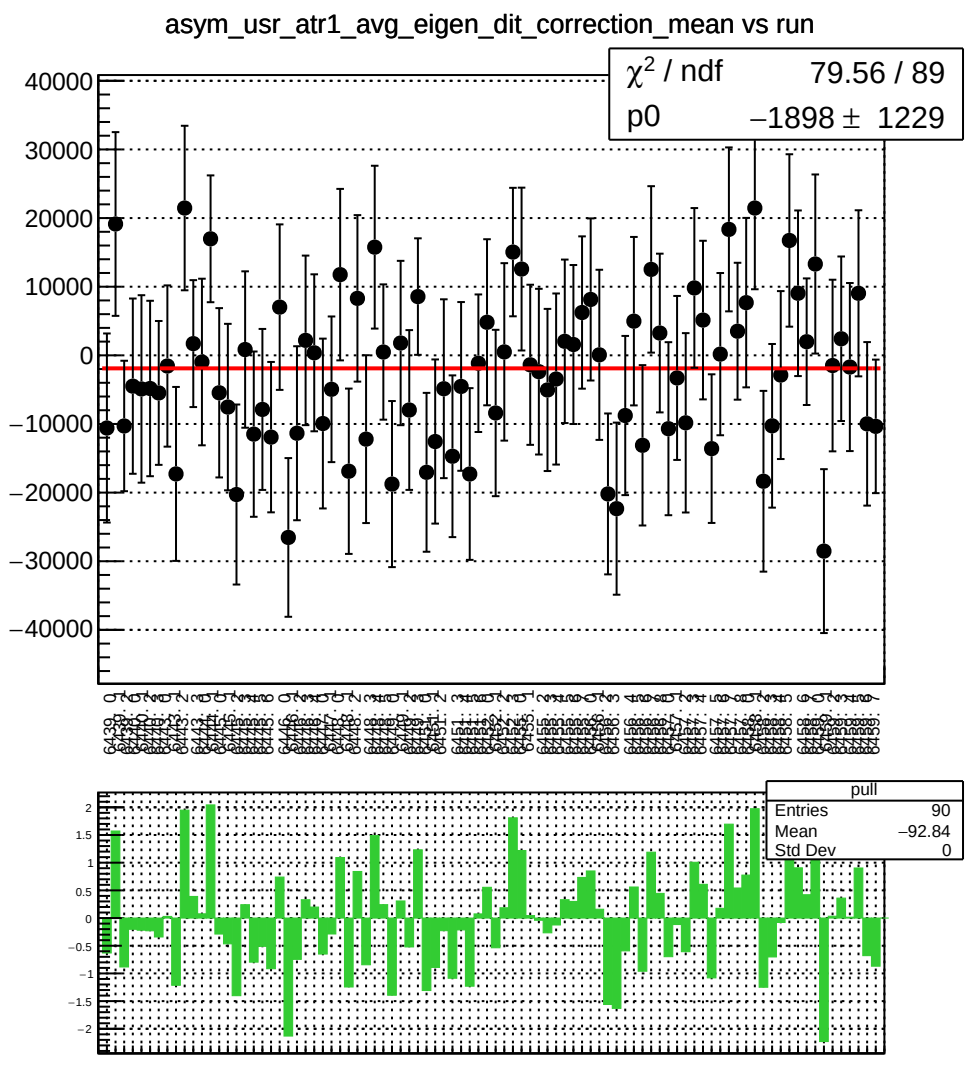

pull1D
Entries 90
Mean −0.01771
Std Dev 0.9401

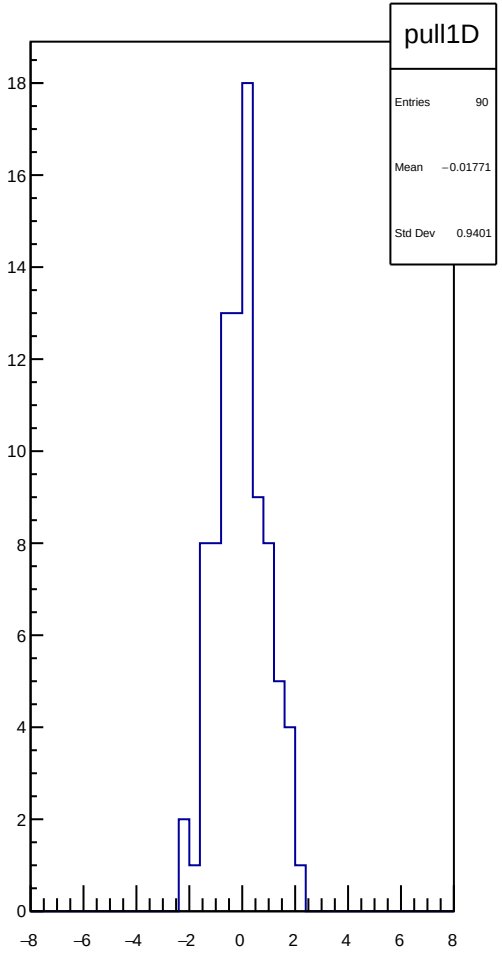

asym_usr_atr1_avg_dit_correction_rms vs run
χ² / ndf 2919 / 89
p0 1159 ± 0.8688
1300
1250
1200
1150
1100
1050
1000

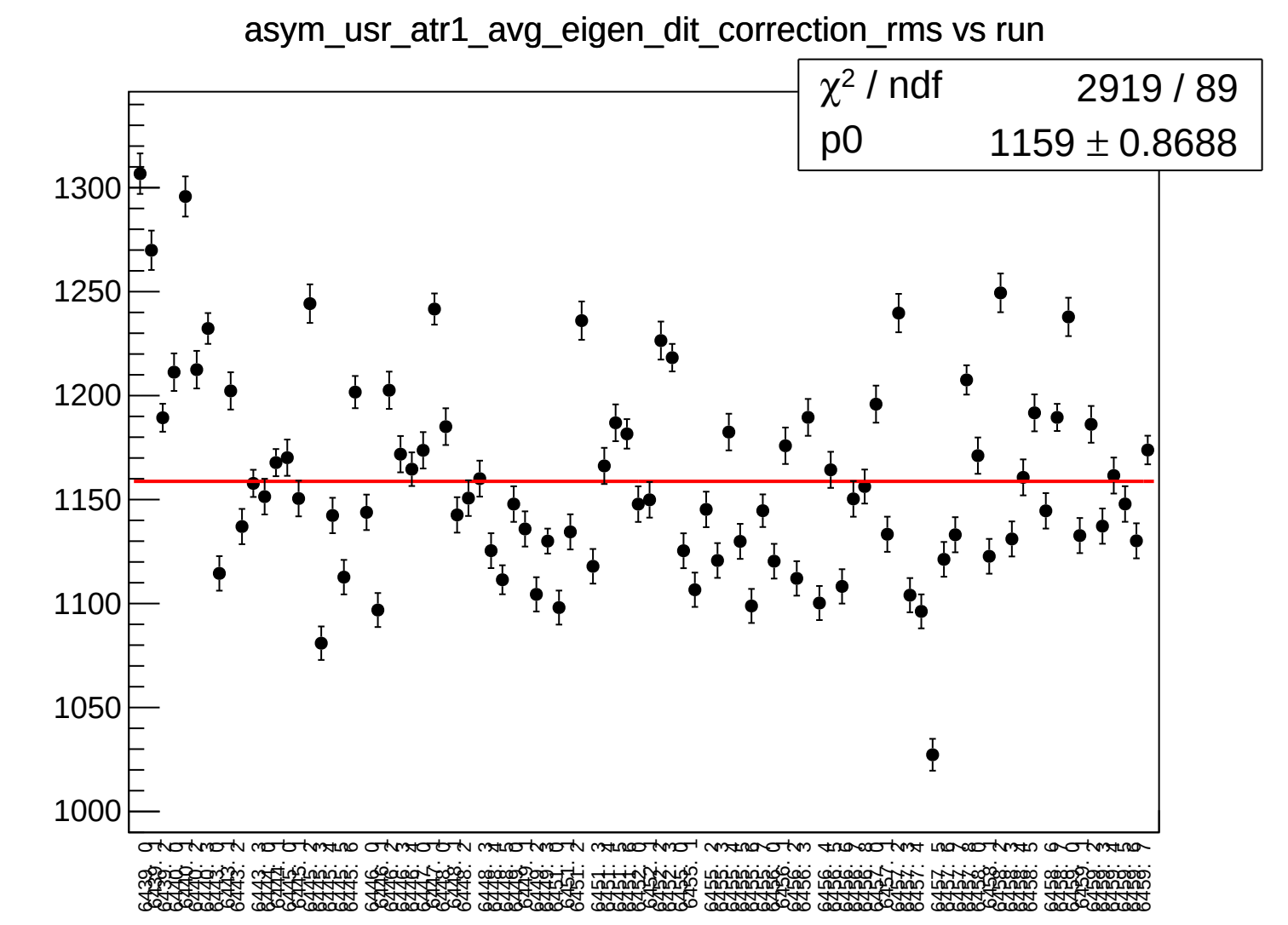

eigen_dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 97.43 / 89
p0 867.3 ± 1707
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 329.5
Std Dev 0
2
1
0
−1
−2

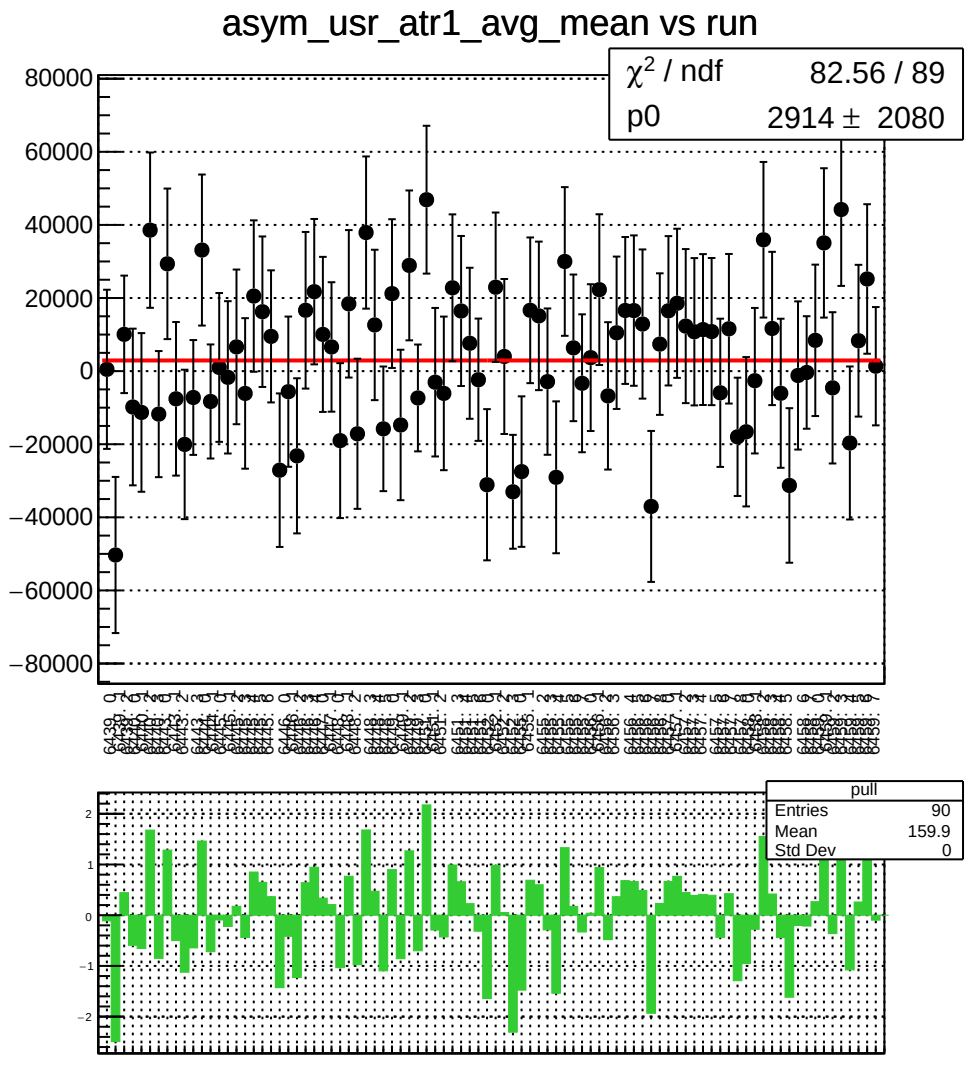

pull1D
Entries 90
Mean 0.01671
Std Dev 1.04
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

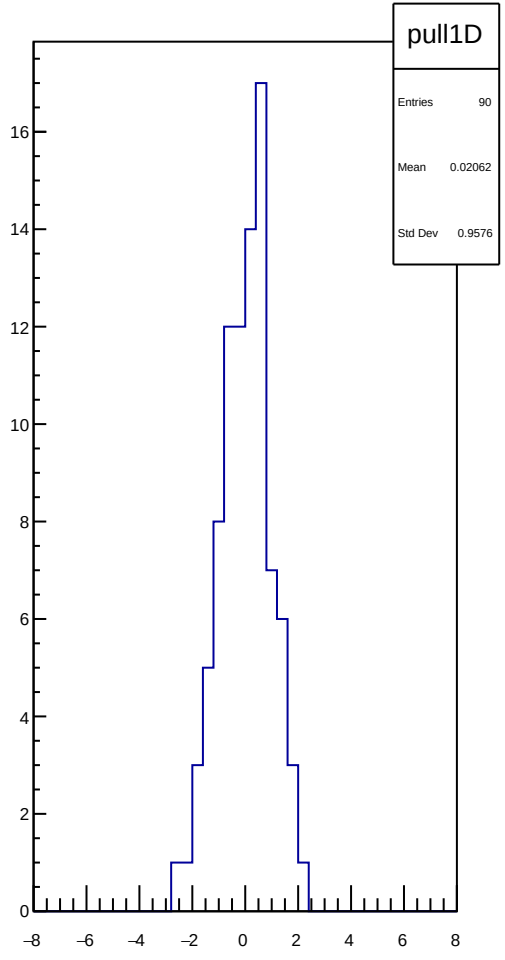

eigen_dit_asym_usr_atr1_avg_rms vs run
χ^2 / ndf 112.3 / 89
p0 1612 ± 1.207
1660
1640
1620
1600
1580
1560

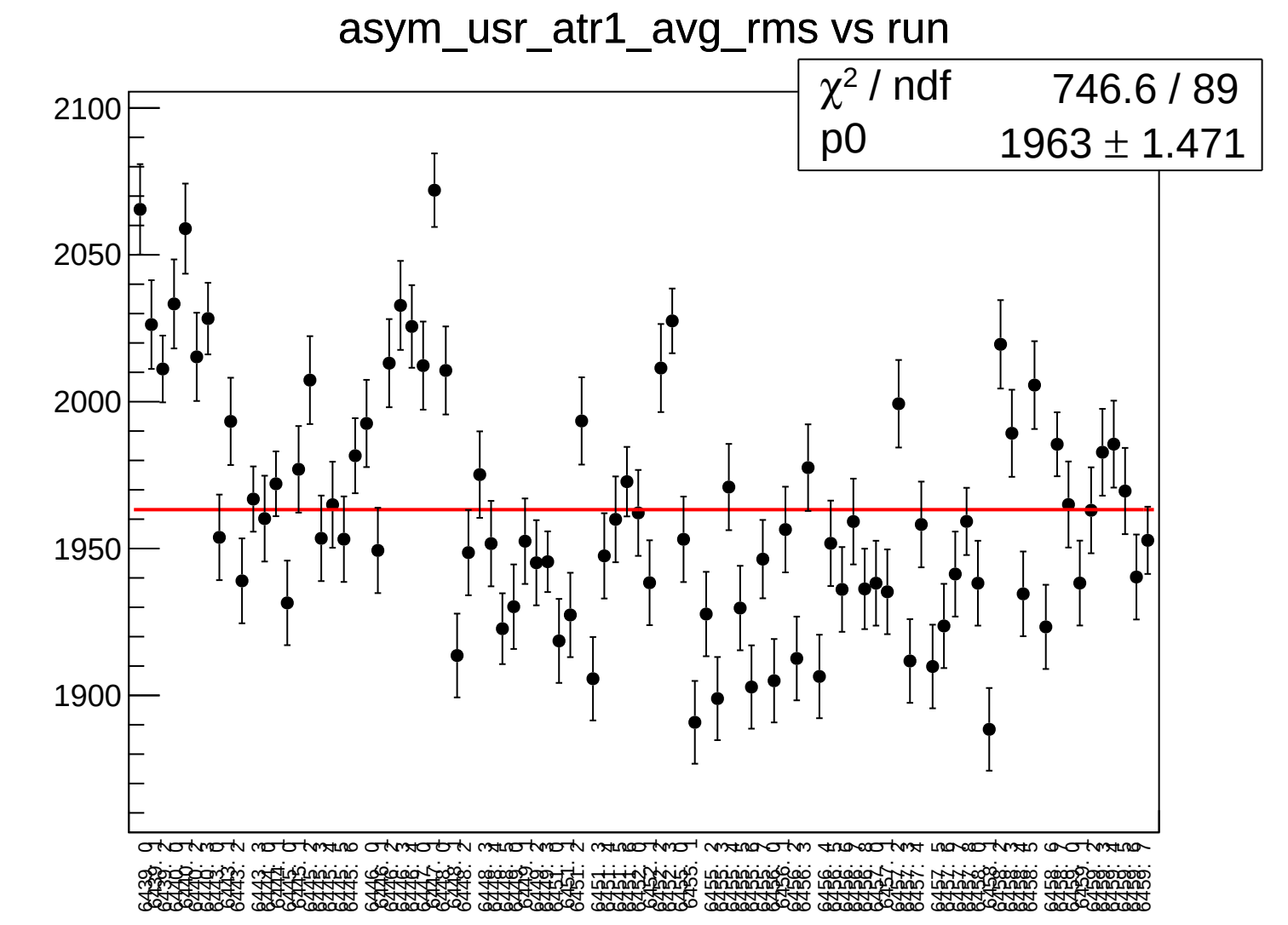

asym_usr_atr1_avg_eigen_dit_correction_mean vs run
χ² / ndf 79.56 / 89
p0 −1898 ± 1229
pull
Entries 90
Mean −92.84
Std Dev 0

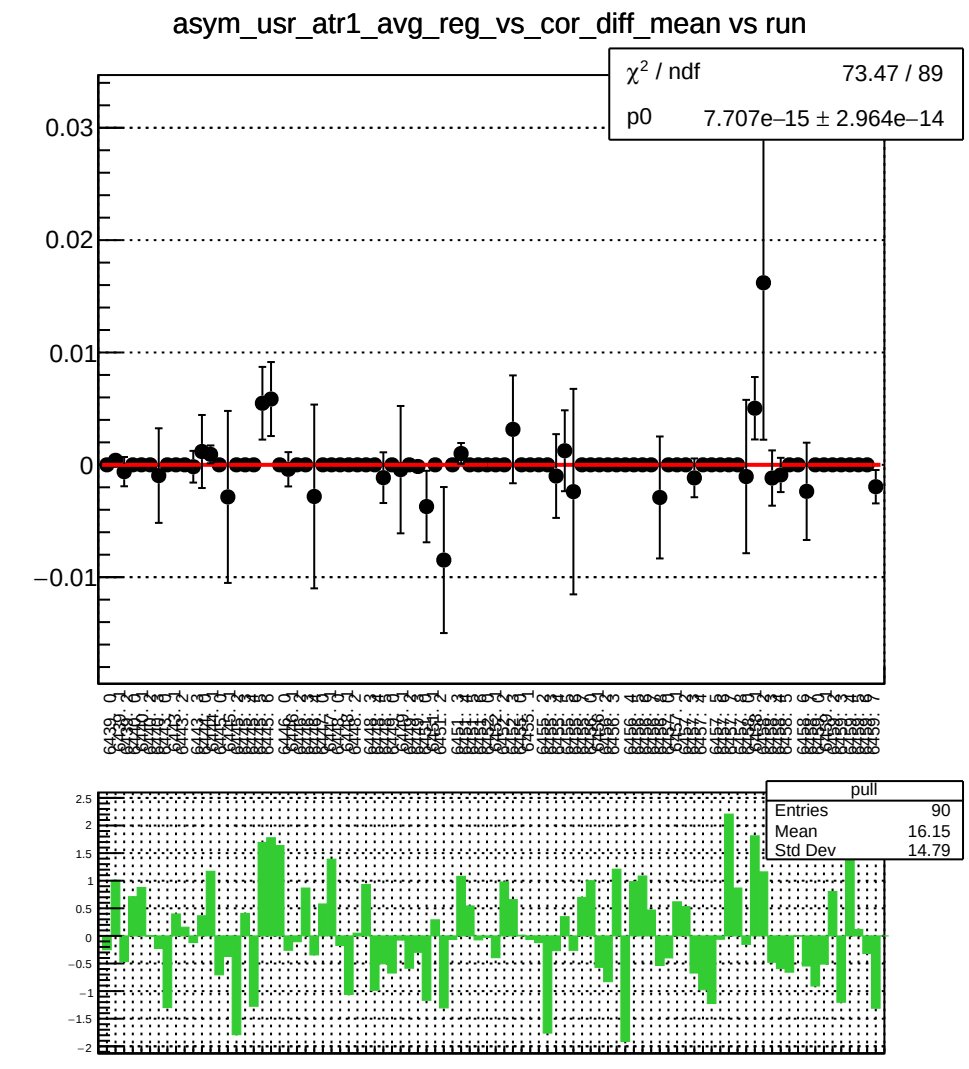

pull1D
Entries 90
Mean −0.01771
Std Dev 0.9401

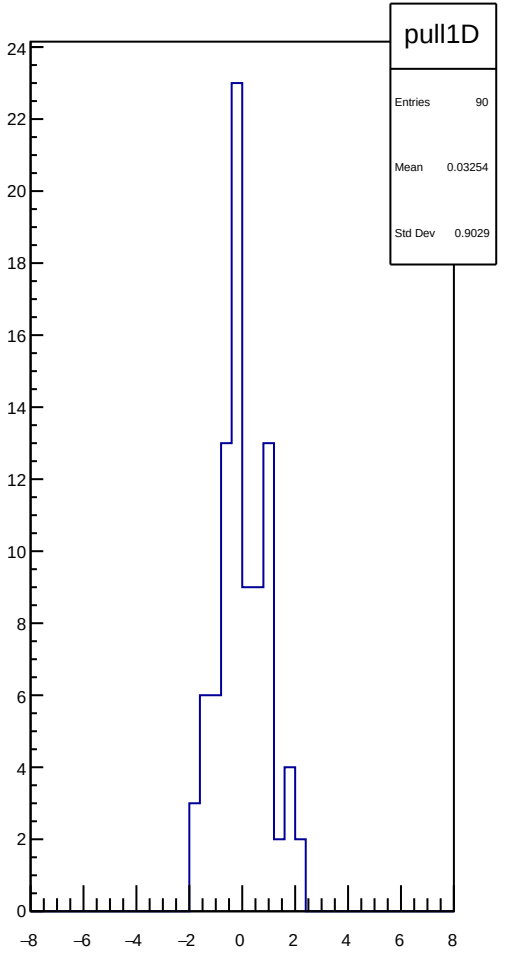

asym_usr_atr1_avg_eigen_dit_correction_rms vs run
χ² / ndf 2919 / 89
p0 1159 ± 0.8688
1300
1250
1200
1150
1100
1050
1000

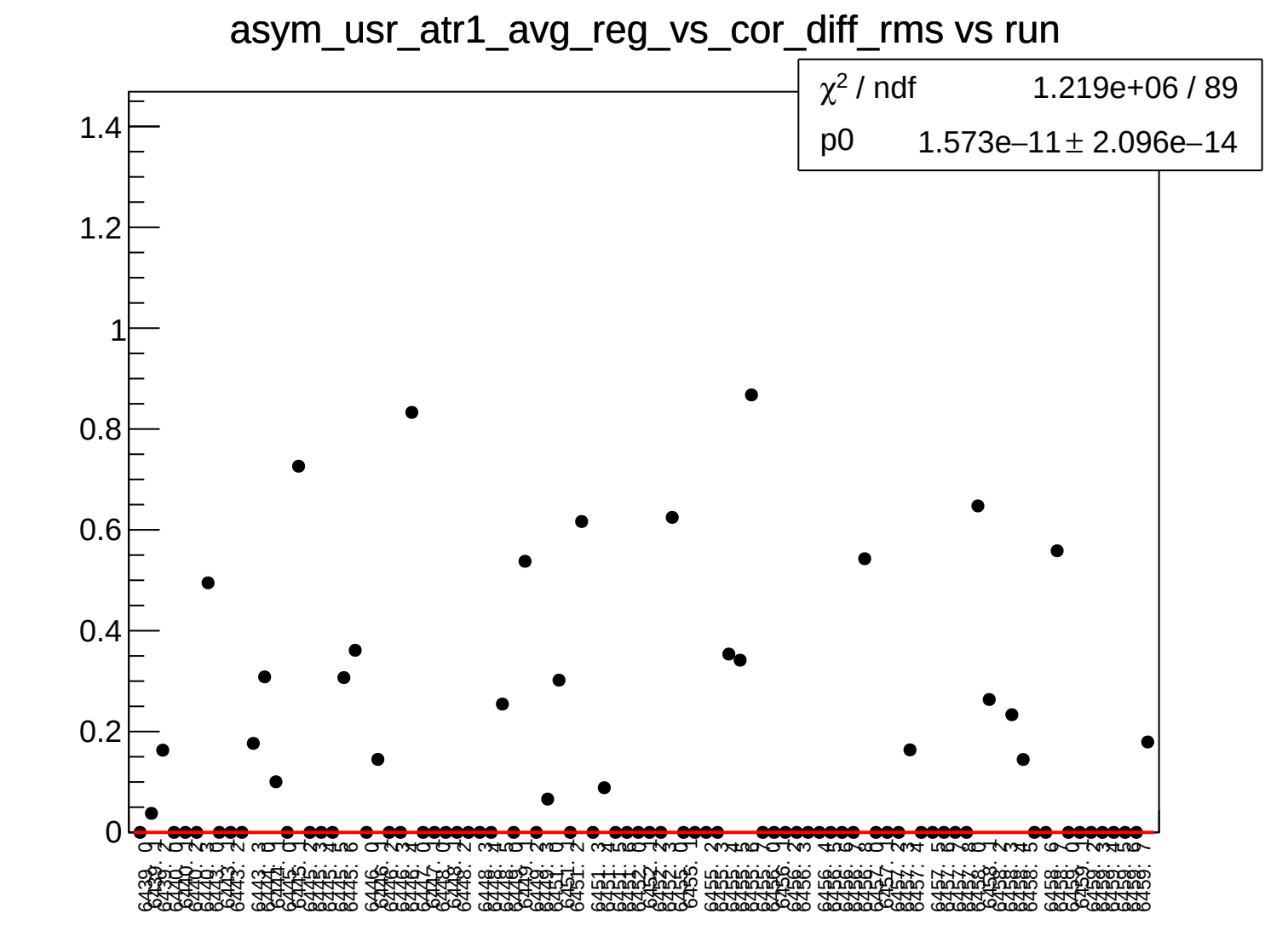

asym_usr_atr1_avg_mean vs run
χ² / ndf 82.56 / 89
p0 2914 ± 2080
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 90
Mean 159.9
Std Dev 0
2
1
0
−1
−2

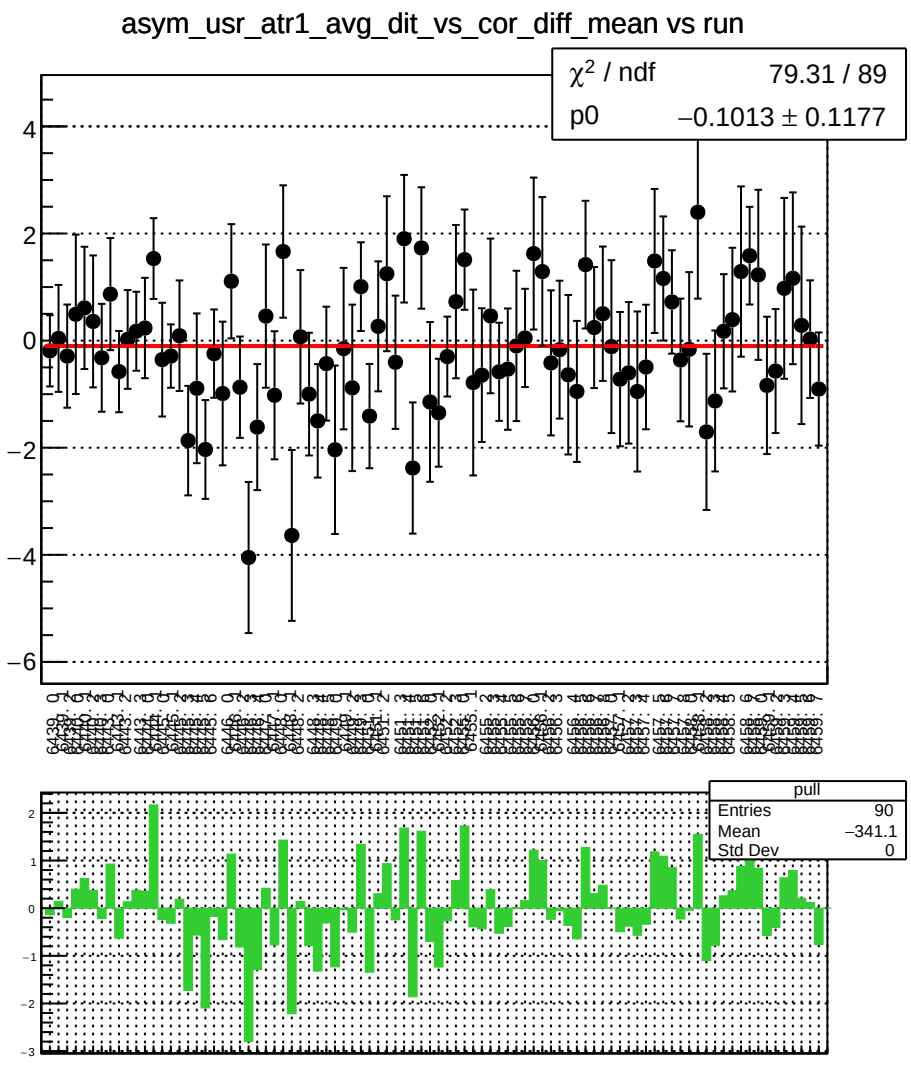

pull1D
Entries 90
Mean 0.02062
Std Dev 0.9576
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

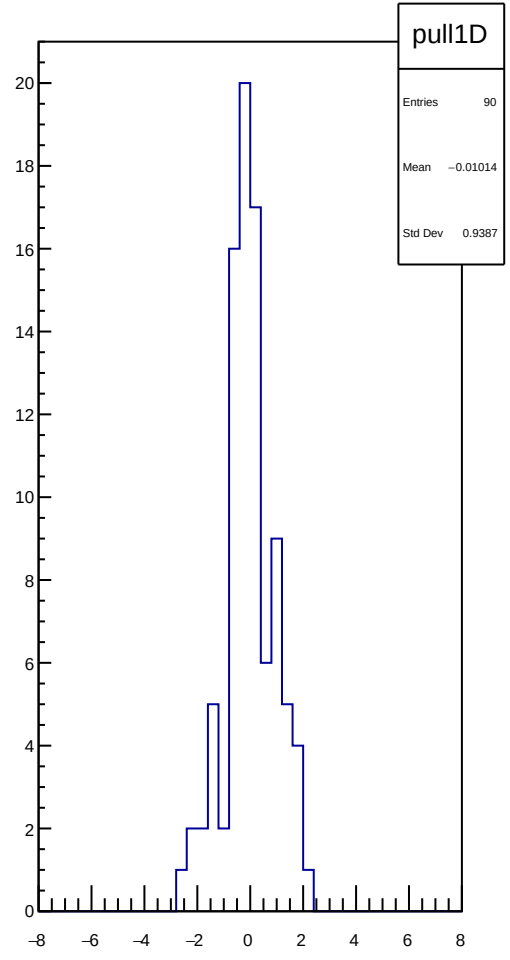

asym_usr_atr1_avg_rms vs run
χ² / ndf 746.6 / 89
p0 1963 ± 1.471
2100
2050
2000
1950
1900

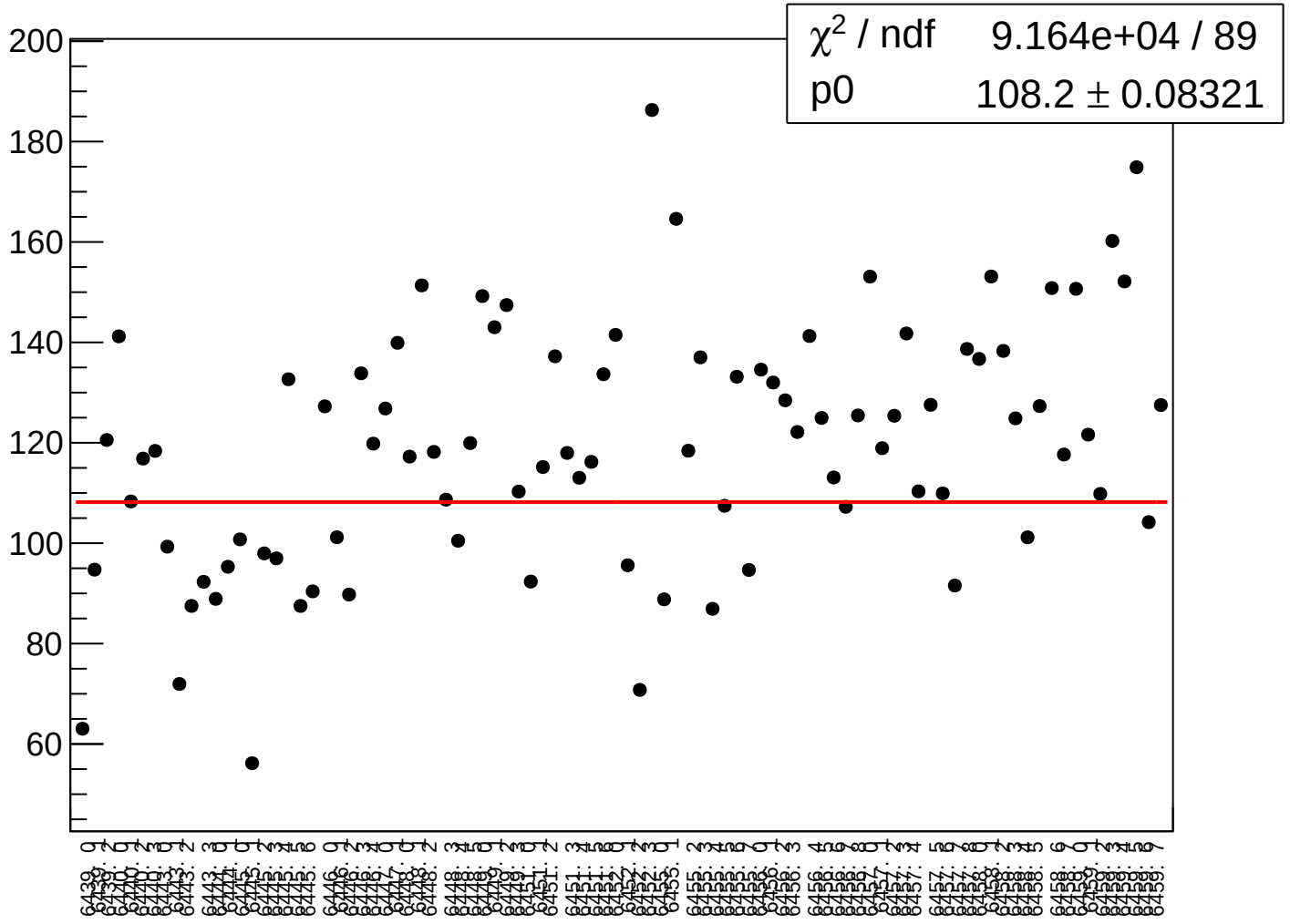

asym_usr_atr1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 73.47 / 89
p0 7.707e−15 ± 2.964e−14
0.03
0.02
0.01
0
−0.01
pull
Entries 90
Mean 16.15
Std Dev 14.79
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

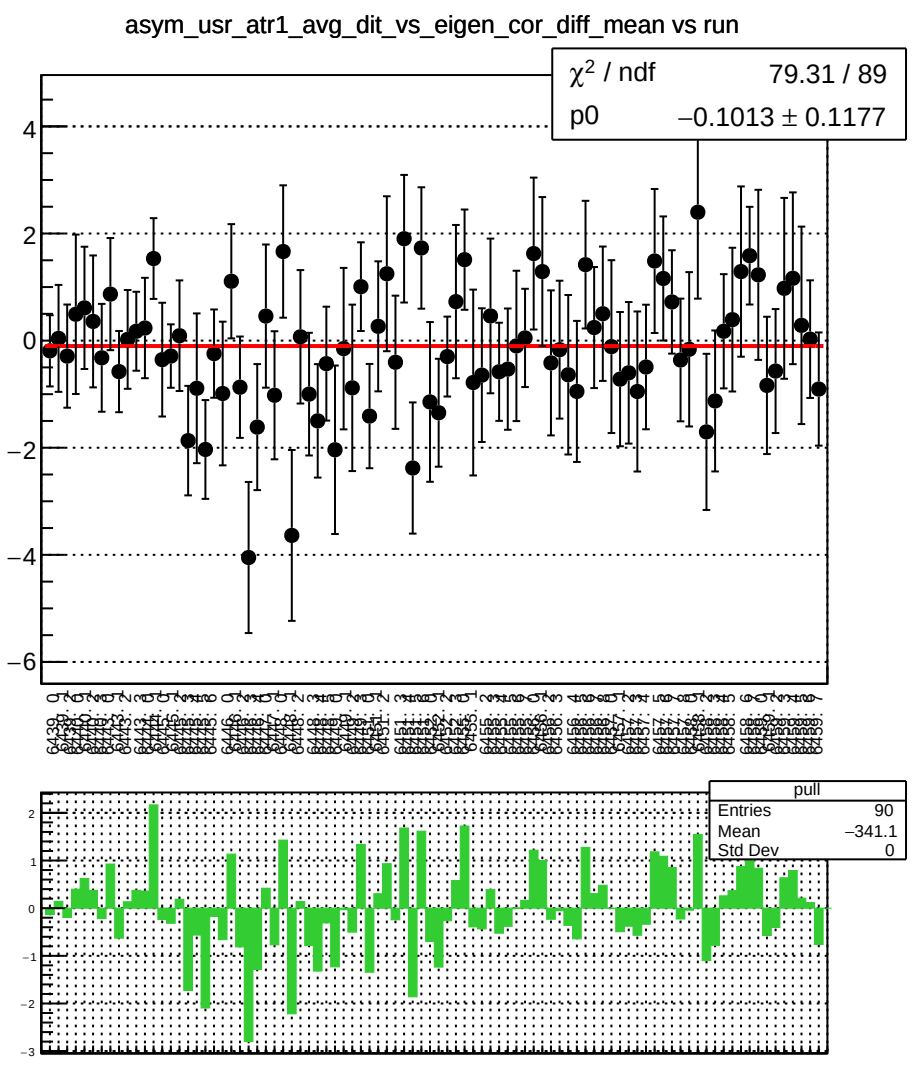

pull1D
Entries 90
Mean 0.03254
Std Dev 0.9029
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

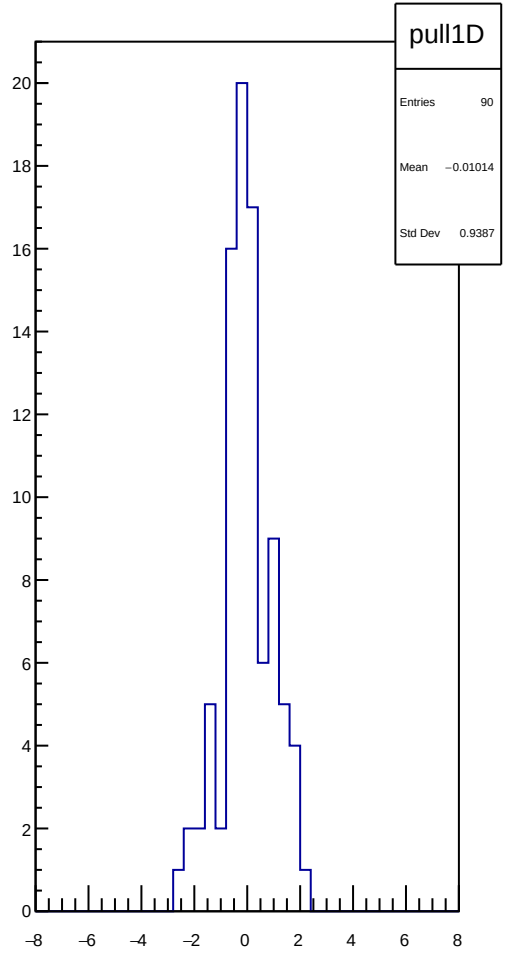

asym_usr_atr1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.219e+06 / 89
p0 1.573e−11 ± 2.096e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

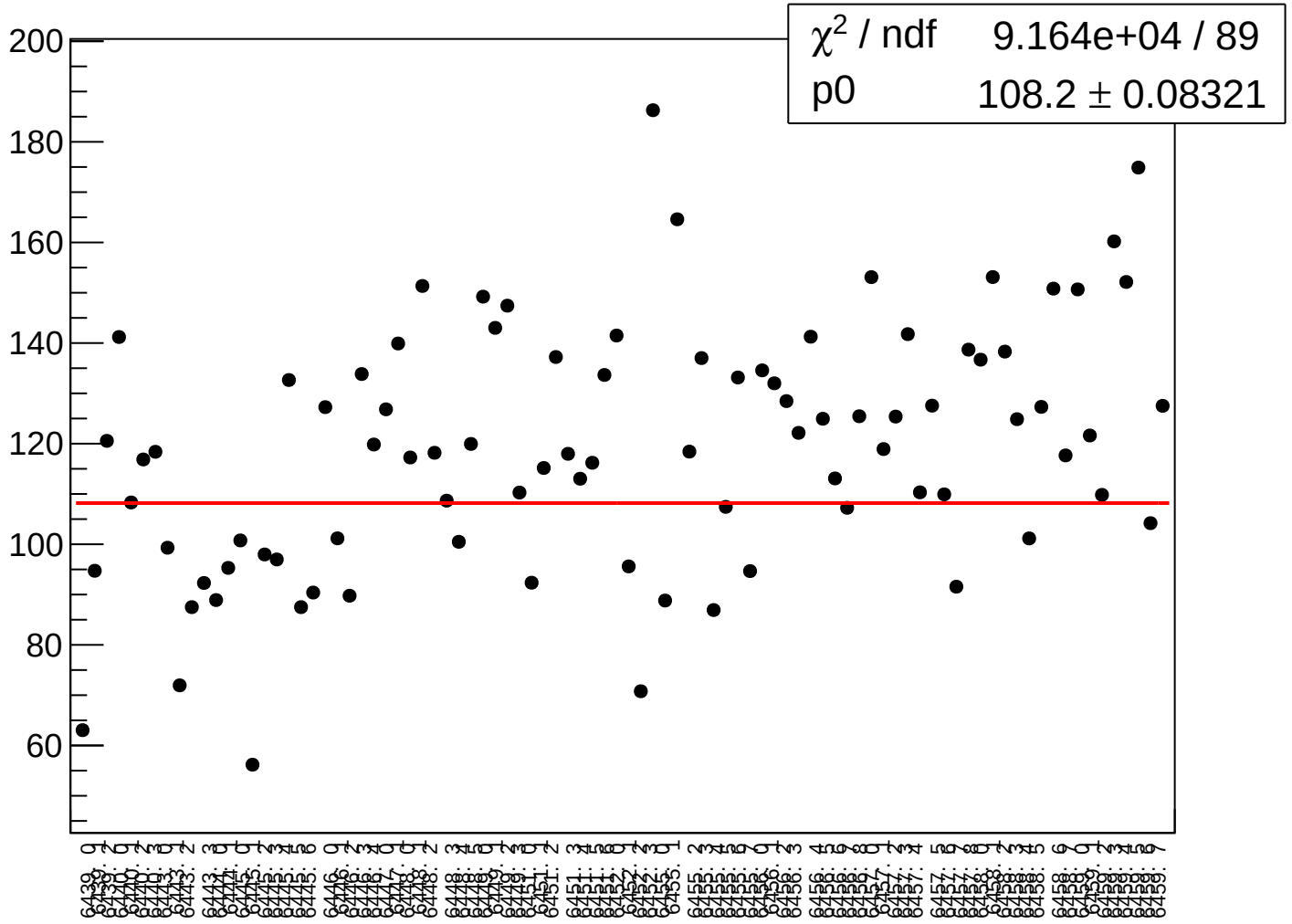

asym_usr_atr1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 79.31 / 89
p0 −0.1013 ± 0.1177
pull
Entries 90
Mean −341.1
Std Dev 0

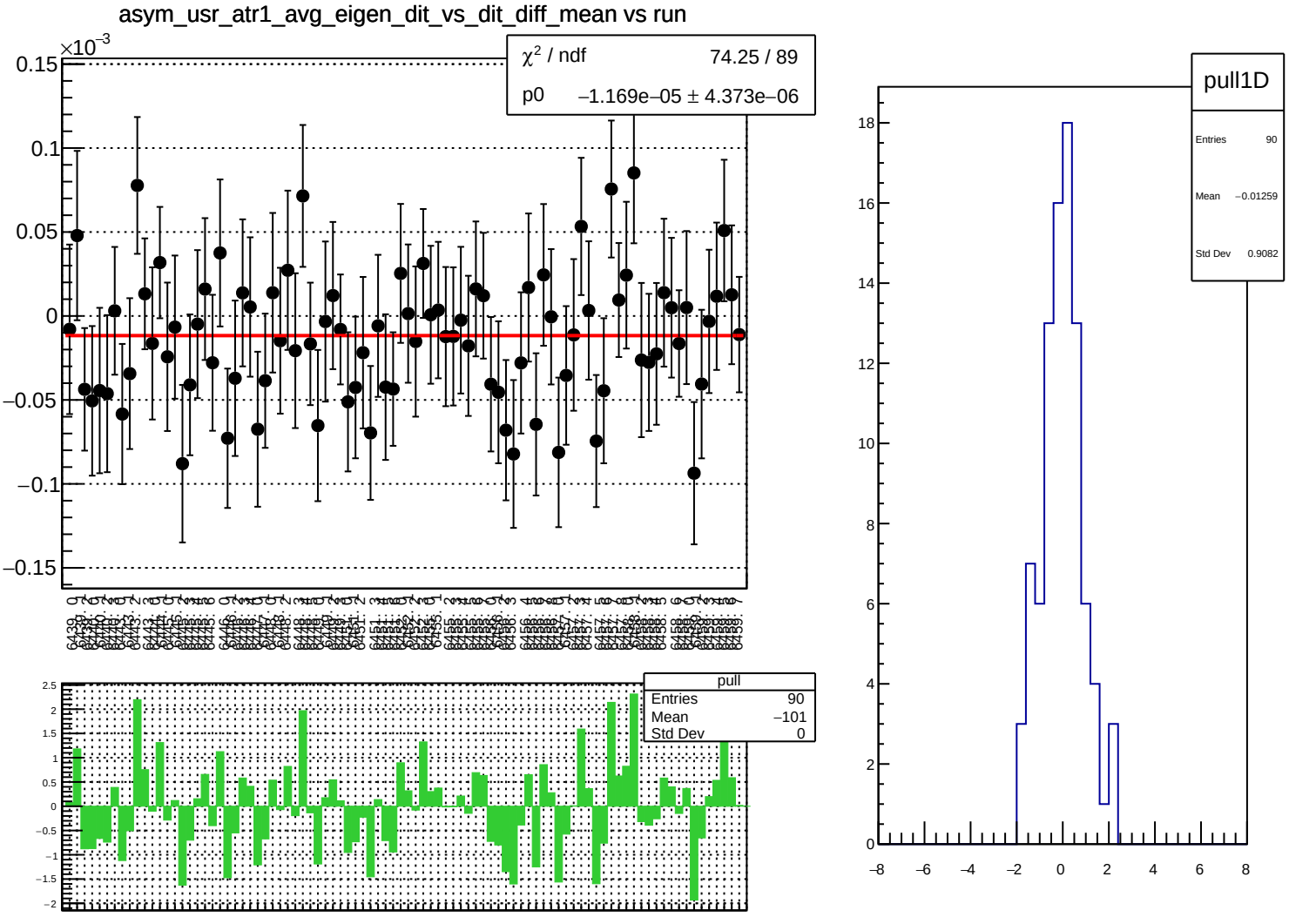

pull1D
Entries 90
Mean −0.01014
Std Dev 0.9387

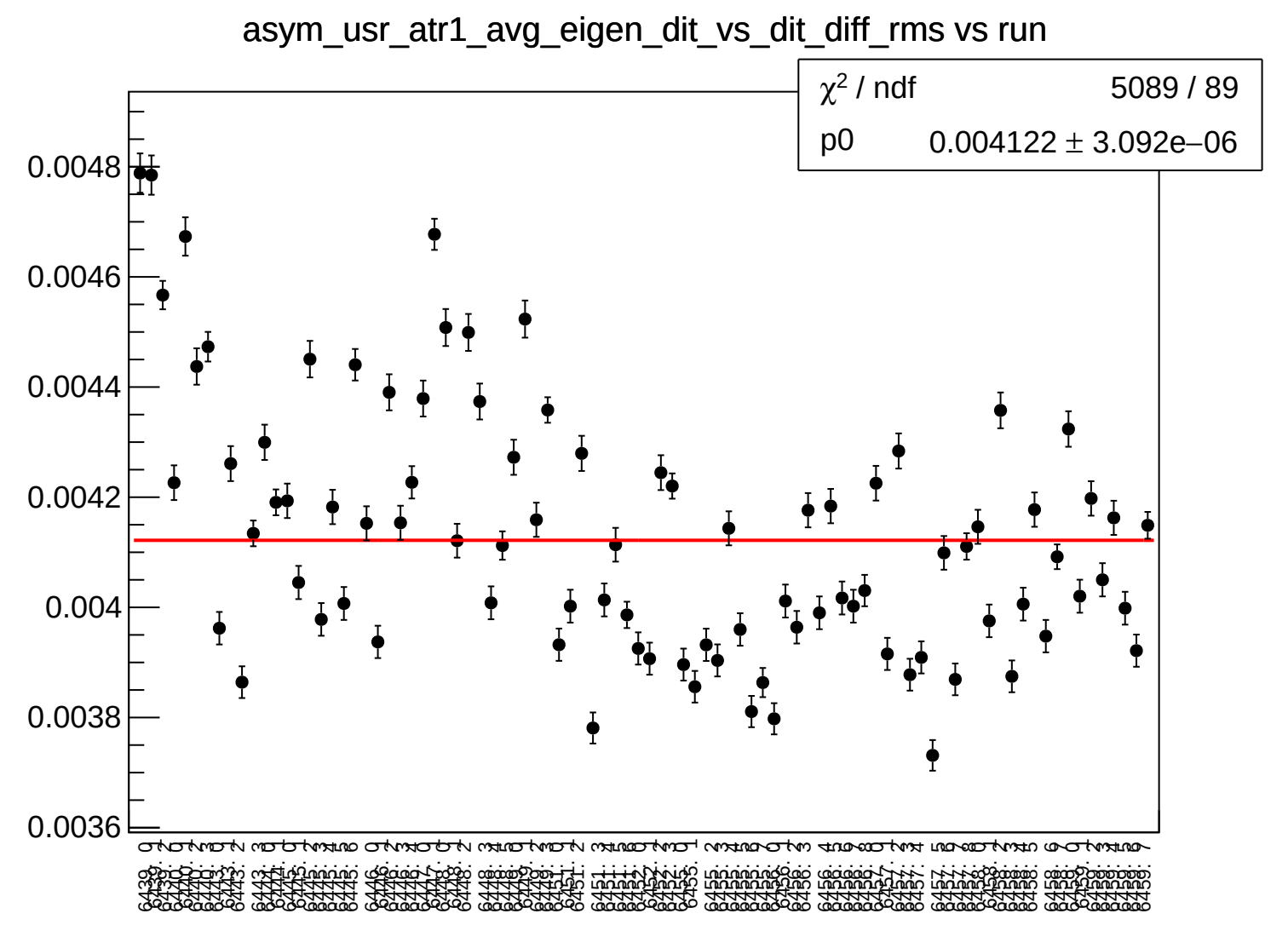

asym_usr_atr1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 9.164e+04 / 89
p0 108.2 ± 0.08321
200
180
160
140
120
100
80
60

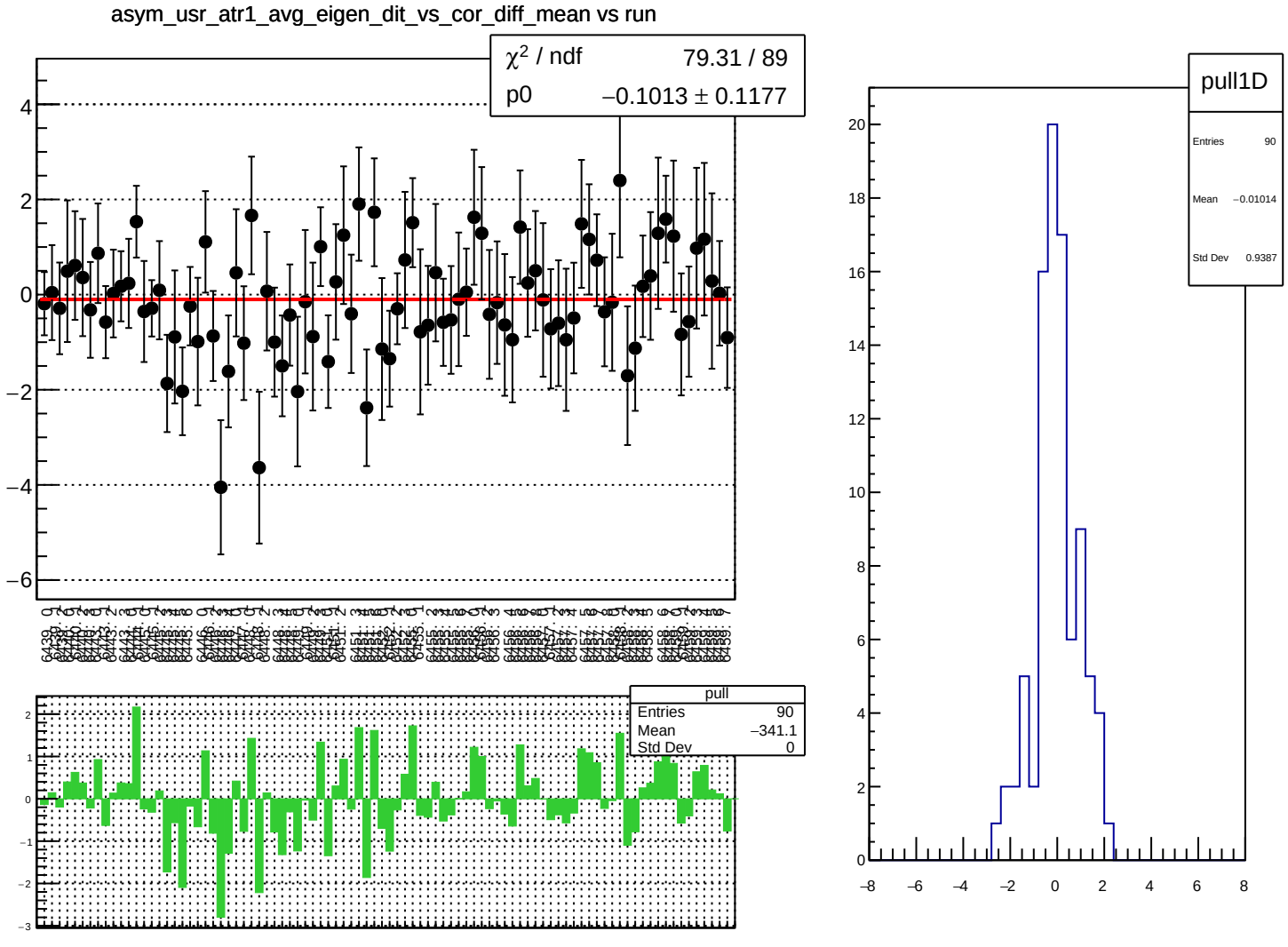

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.31 / 89
p0 −0.1013 ± 0.1177
pull
Entries 90
Mean −341.1
Std Dev 0

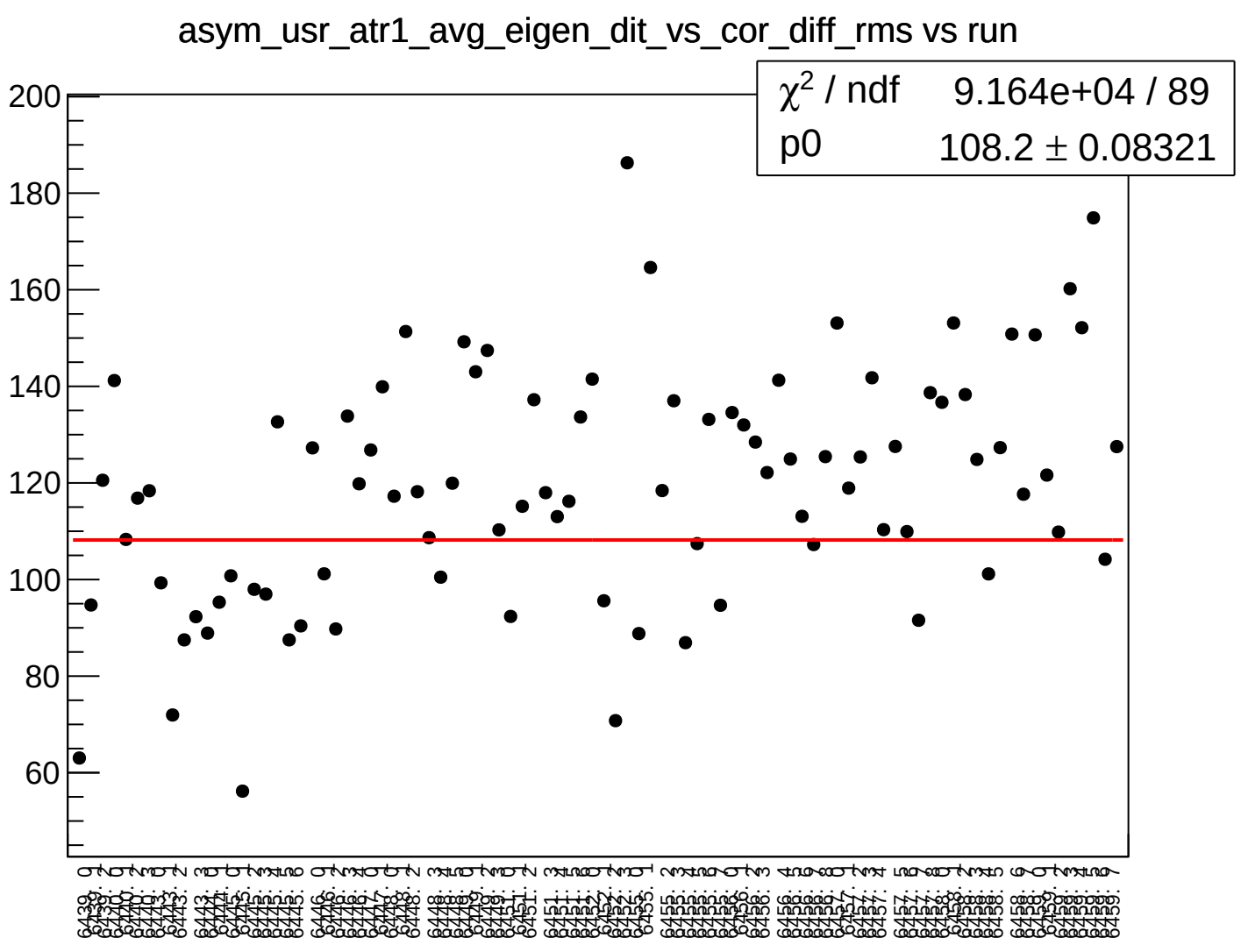

pull1D
Entries 90
Mean −0.01014
Std Dev 0.9387

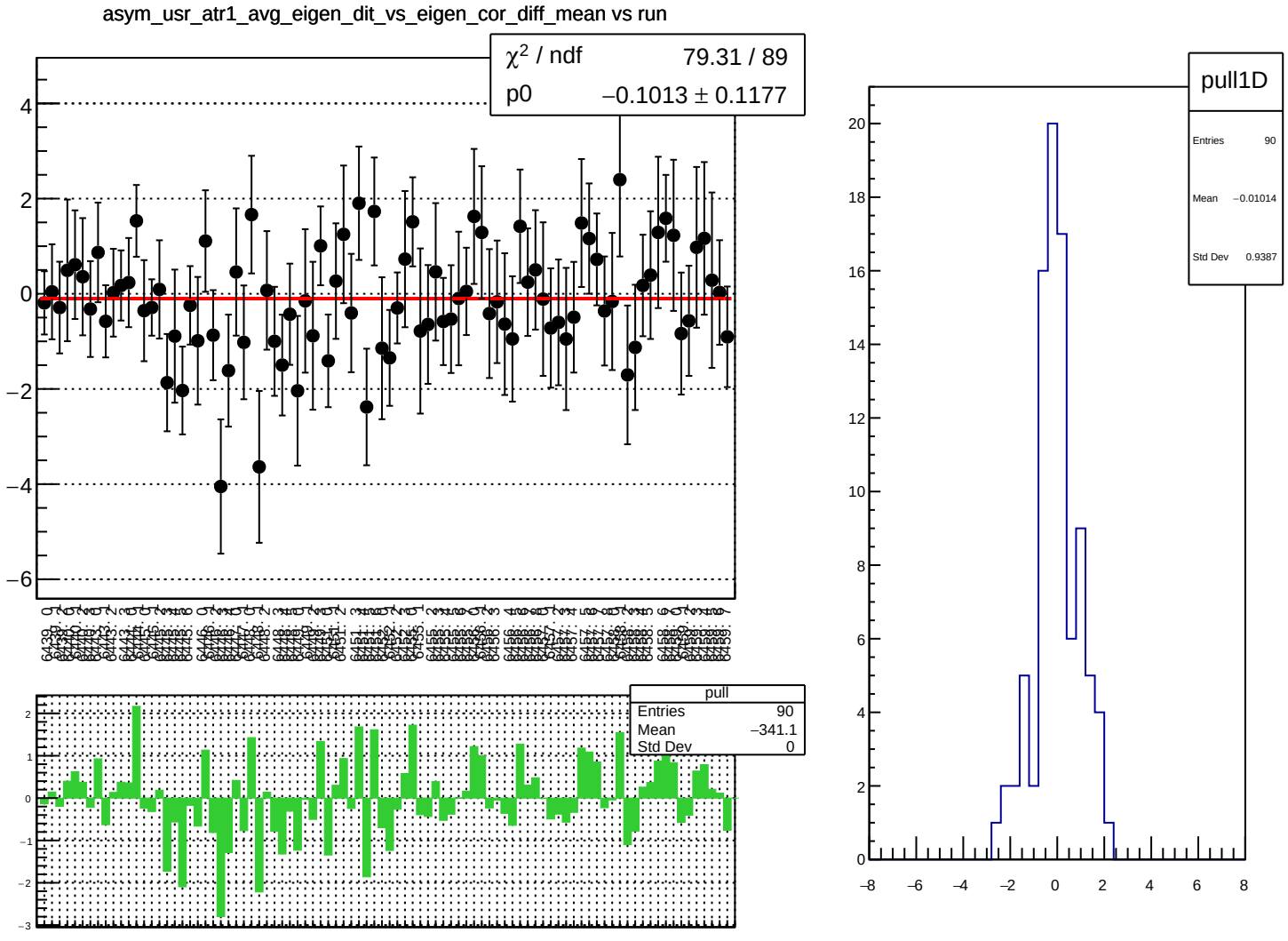

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.164e+04 / 89
p0 108.2 ± 0.08321
200
180
160
140
120
100
80
60

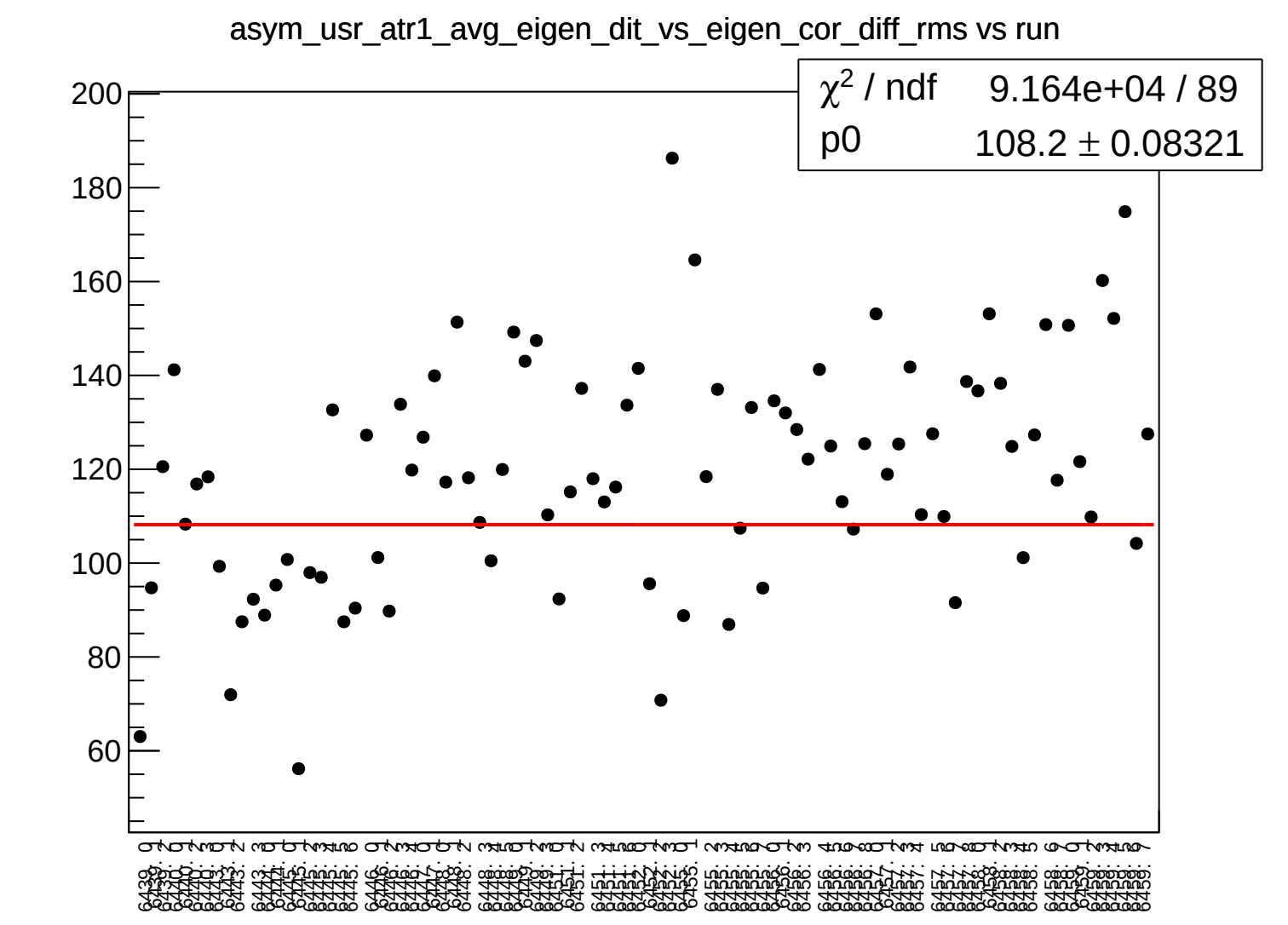

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 74.25 / 89
p0 −1.169e−05 ± 4.373e−06
pull
Entries 90
Mean −101
Std Dev 0
pull1D
Entries 90
Mean −0.01259
Std Dev 0.9082

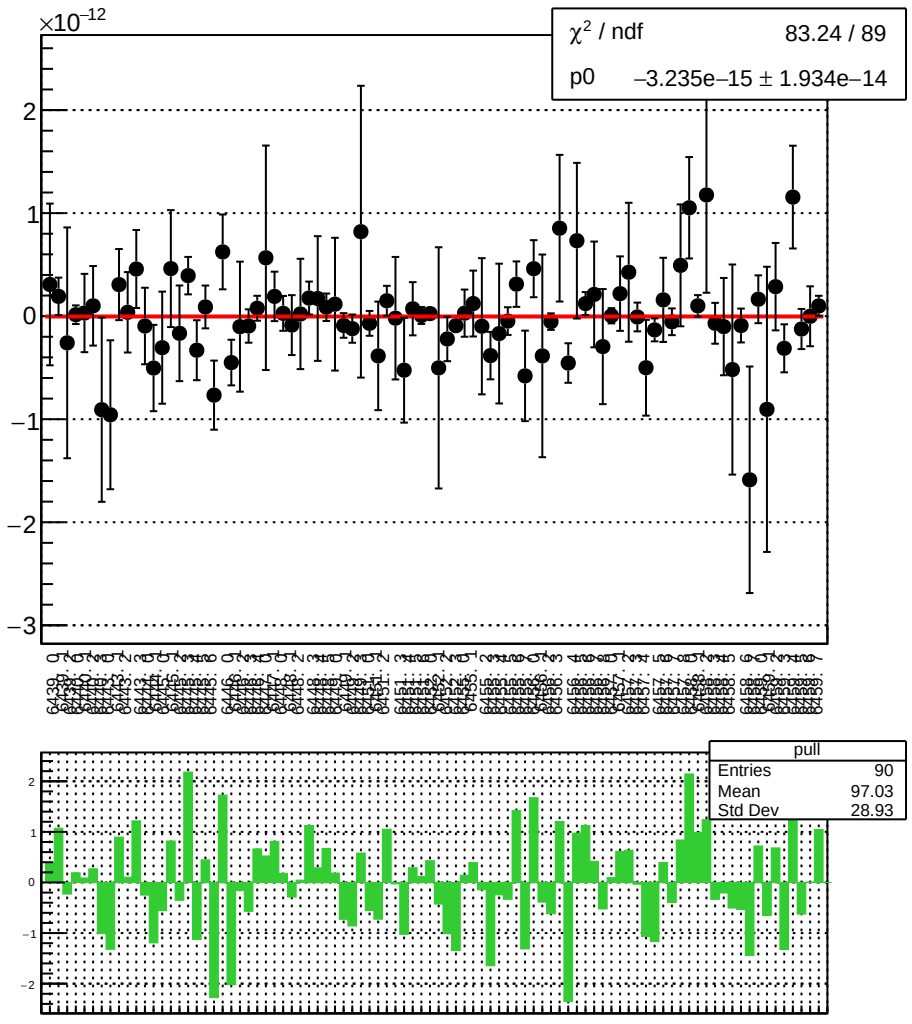

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5089 / 89
p0 0.004122 ± 3.092e−06
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036

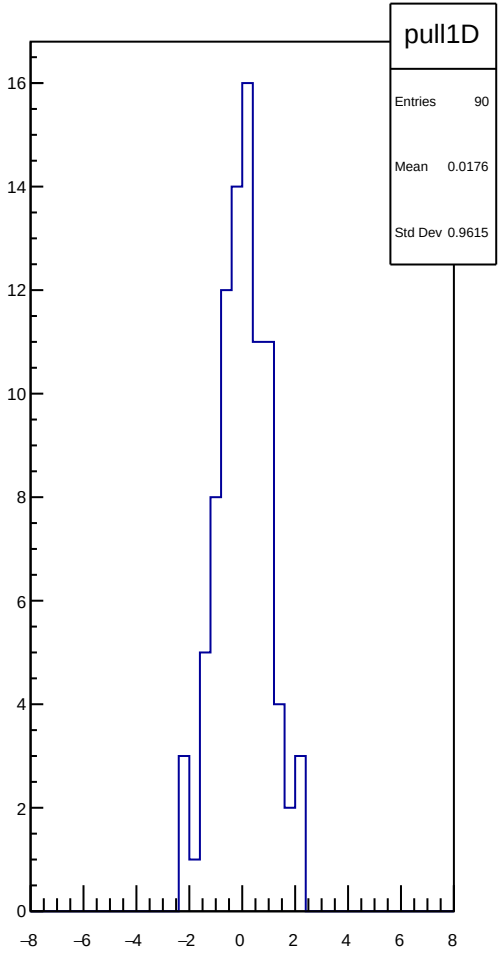

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.31 / 89
p0 −0.1013 ± 0.1177
pull
Entries 90
Mean −341.1
Std Dev 0
pull1D
Entries 90
Mean −0.01014
Std Dev 0.9387

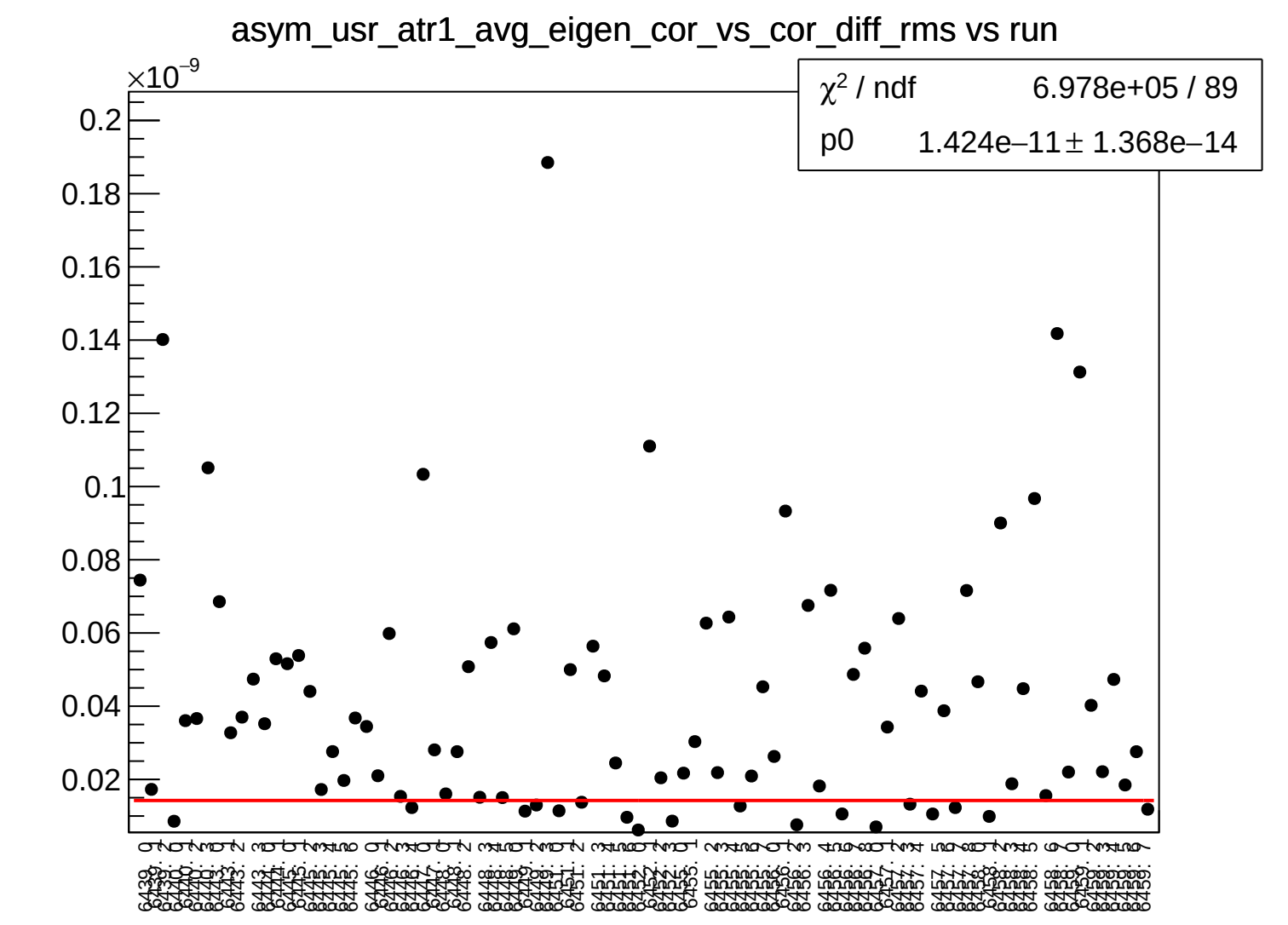

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.164e+04 / 89
p0 108.2 ± 0.08321
200
180
160
140
120
100
80
60

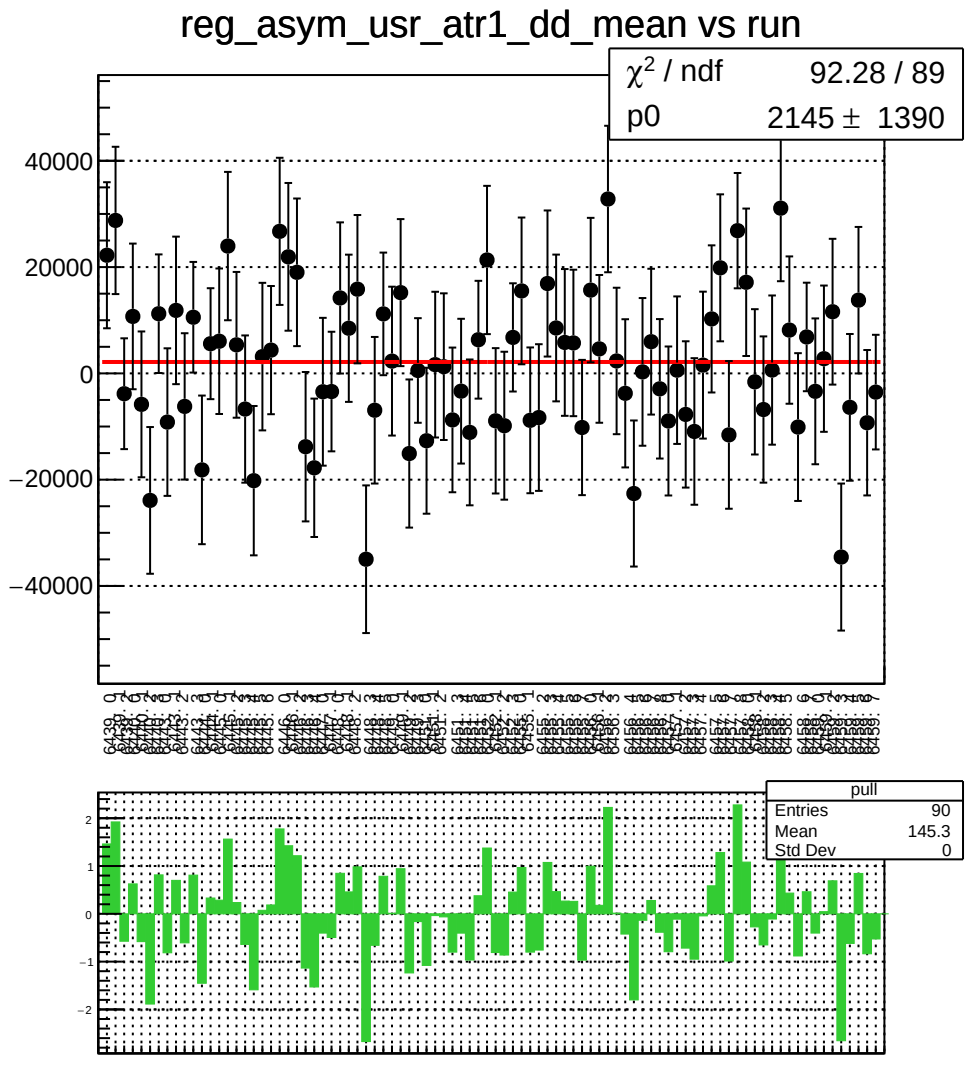

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.31 / 89
p0 −0.1013 ± 0.1177
pull
Entries 90
Mean −341.1
Std Dev 0
pull1D
Entries 90
Mean −0.01014
Std Dev 0.9387

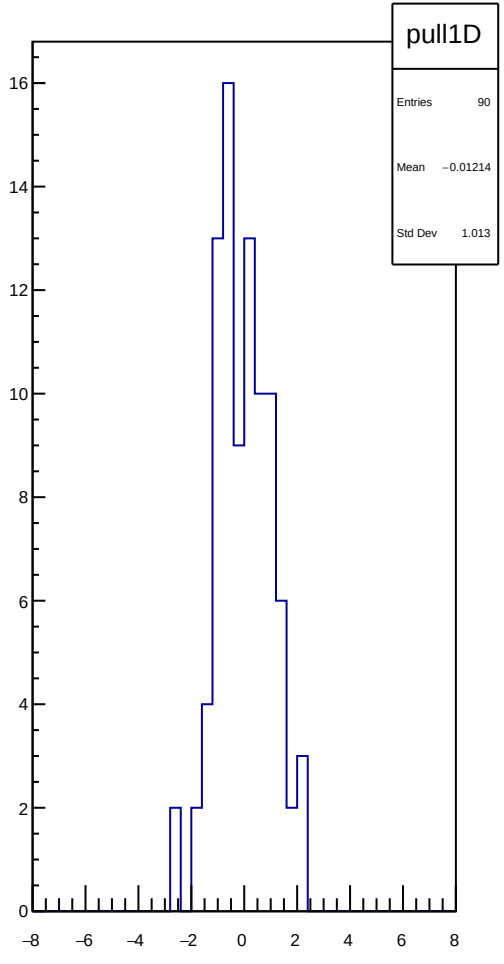

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.164e+04 / 89
p0 108.2 ± 0.08321
200
180
160
140
120
100
80
60

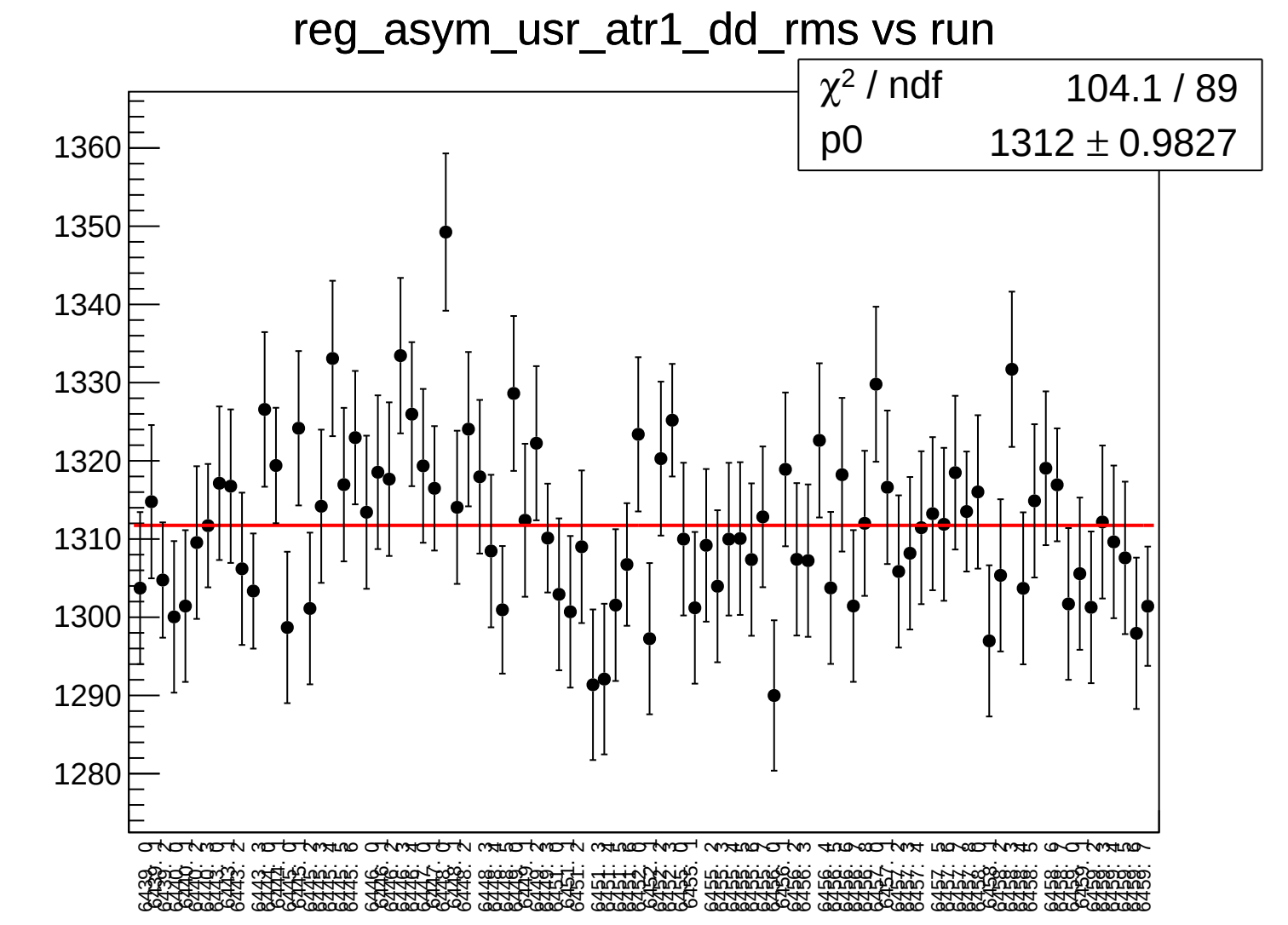

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.24 / 89
p0 −3.235e−15 ± 1.934e−14
pull
Entries 90
Mean 97.03
Std Dev 28.93

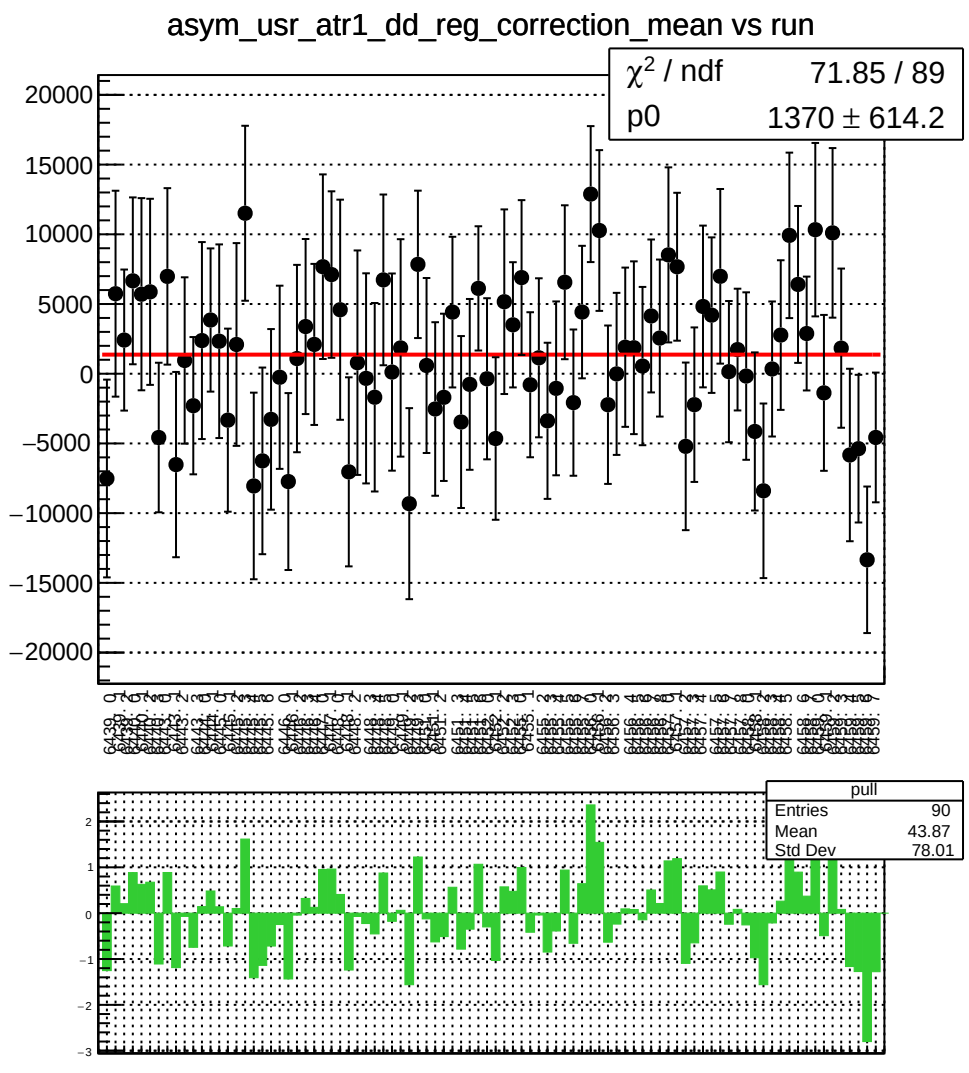

pull1D
Entries 90
Mean 0.0176
Std Dev 0.9615

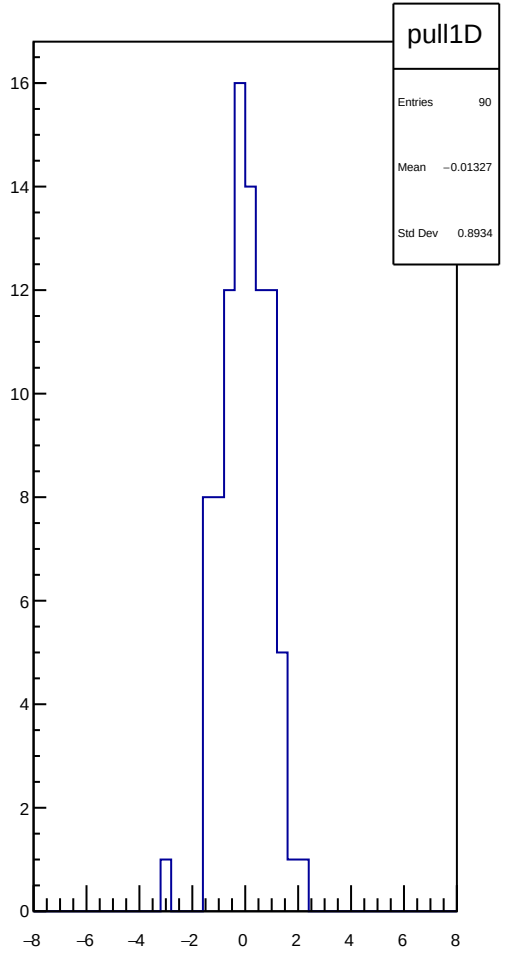

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.978e+05 / 89
p0 1.424e−11 ± 1.368e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

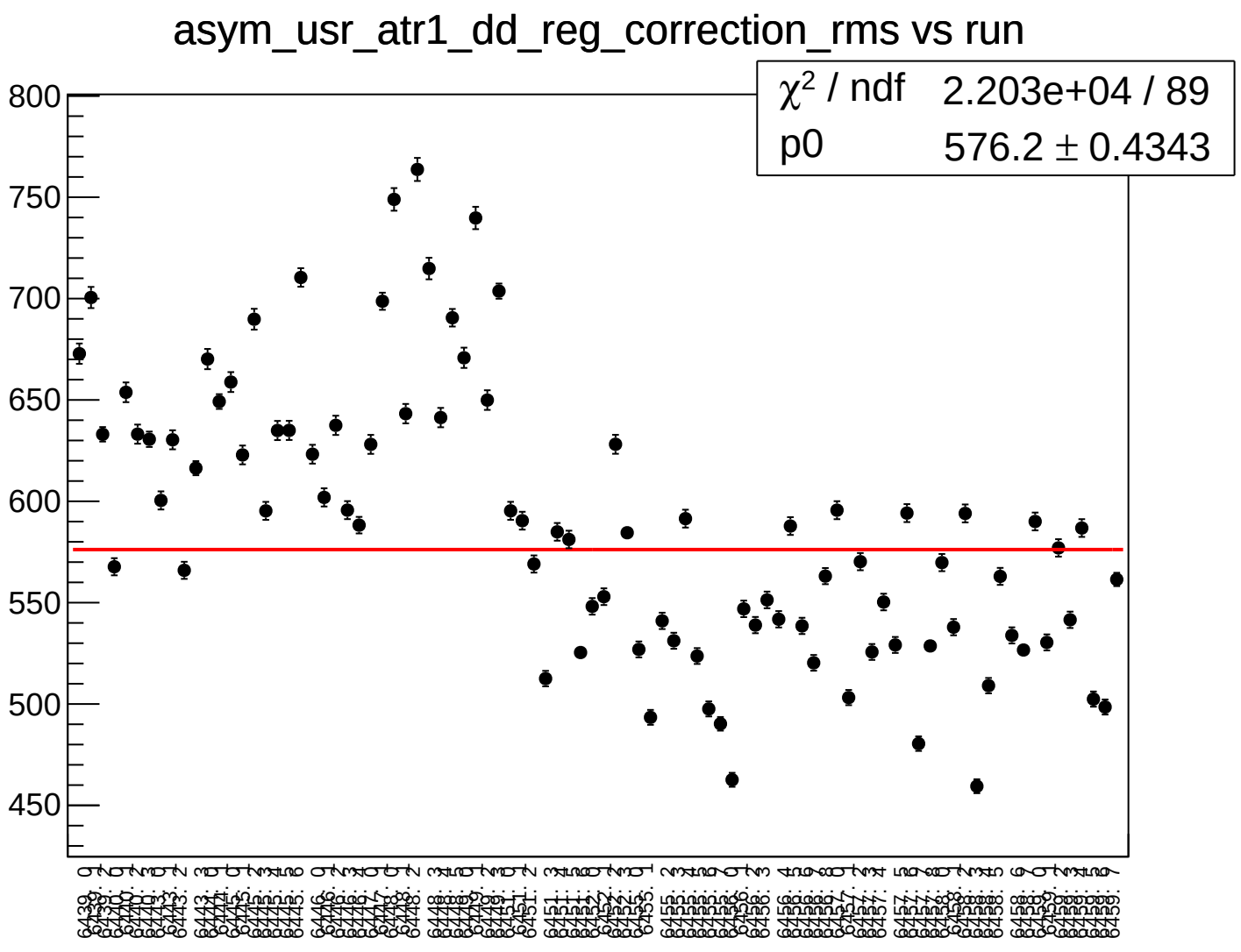

reg_asym_usr_atr1_dd_mean vs run
χ² / ndf 92.28 / 89
p0 2145 ± 1390
40000
20000
0
−20000
−40000
pull
Entries 90
Mean 145.3
Std Dev 0
2
1
0
−1
−2

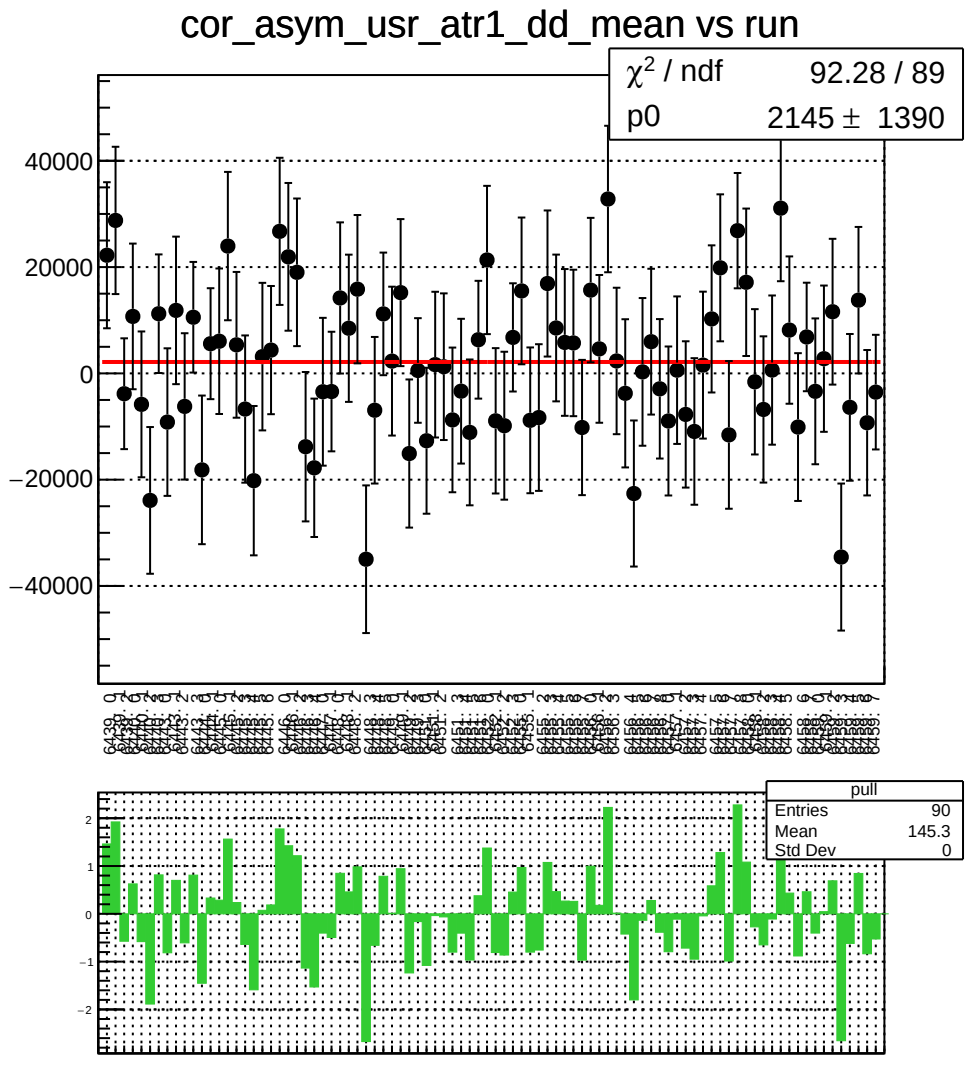

pull1D
Entries 90
Mean −0.01214
Std Dev 1.013
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

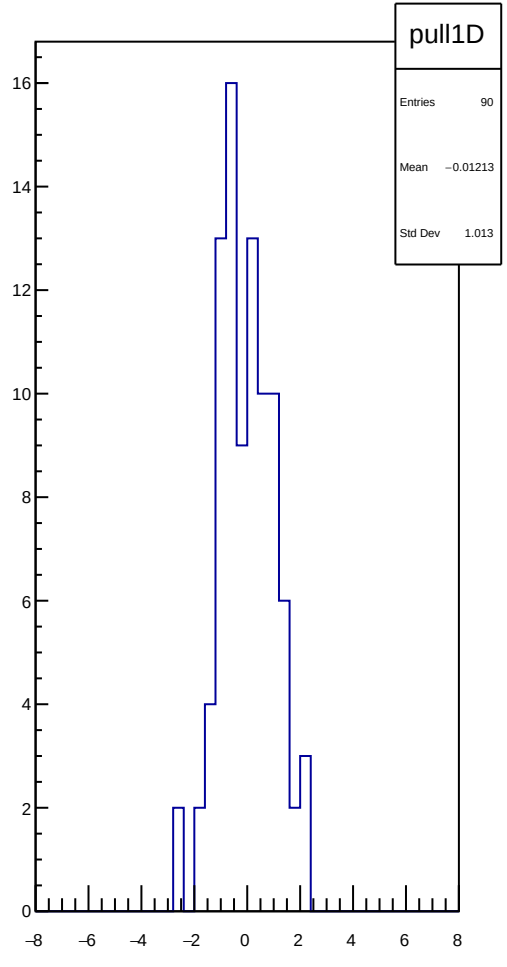

reg_asym_usr_atr1_dd_rms vs run
χ² / ndf 104.1 / 89
p0 1312 ± 0.9827
1360
1350
1340
1330
1320
1310
1300
1290
1280

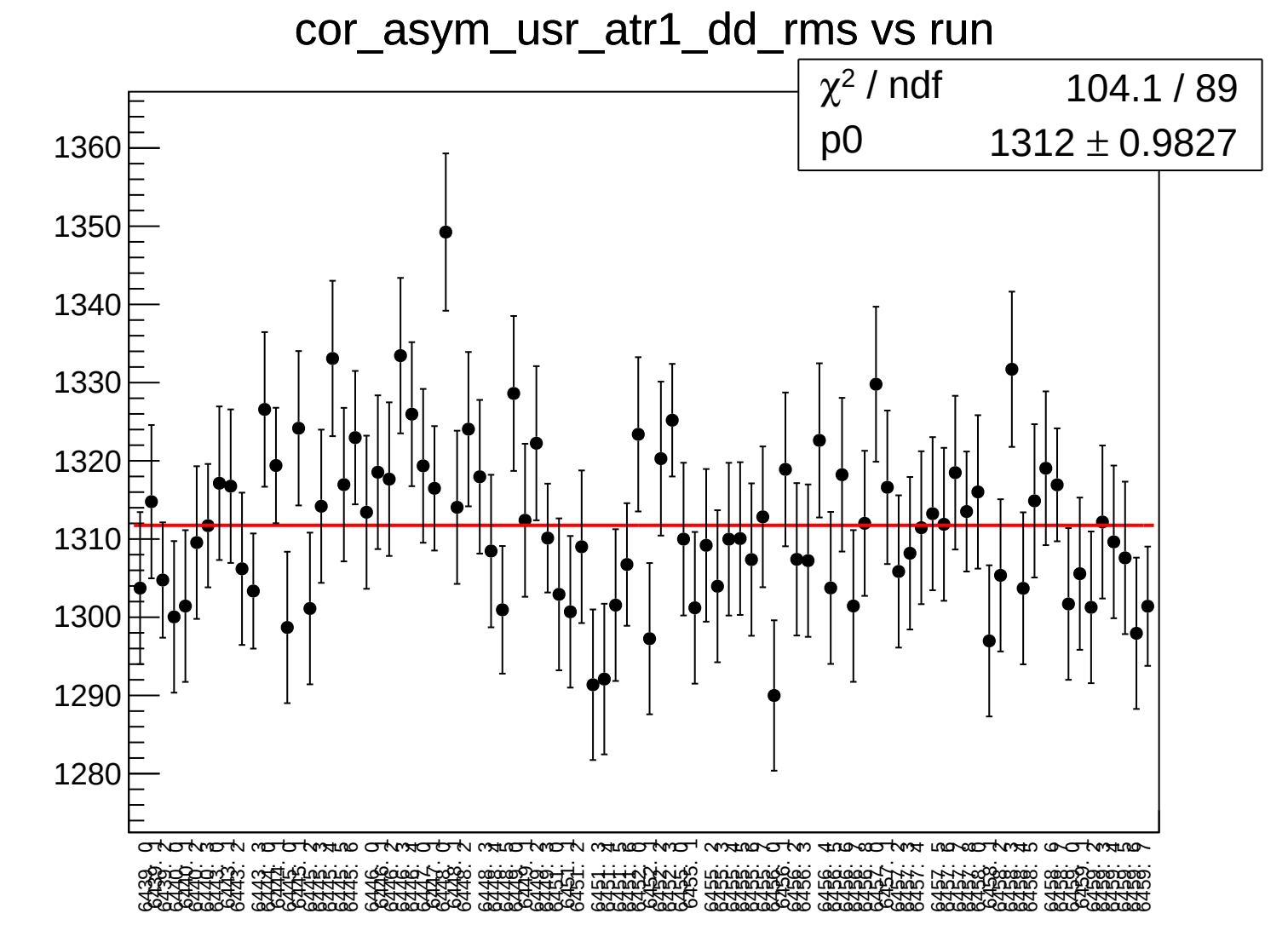

asym_usr_atr1_dd_reg_correction_mean vs run
χ² / ndf 71.85 / 89
p0 1370 ± 614.2
pull
Entries 90
Mean 43.87
Std Dev 78.01

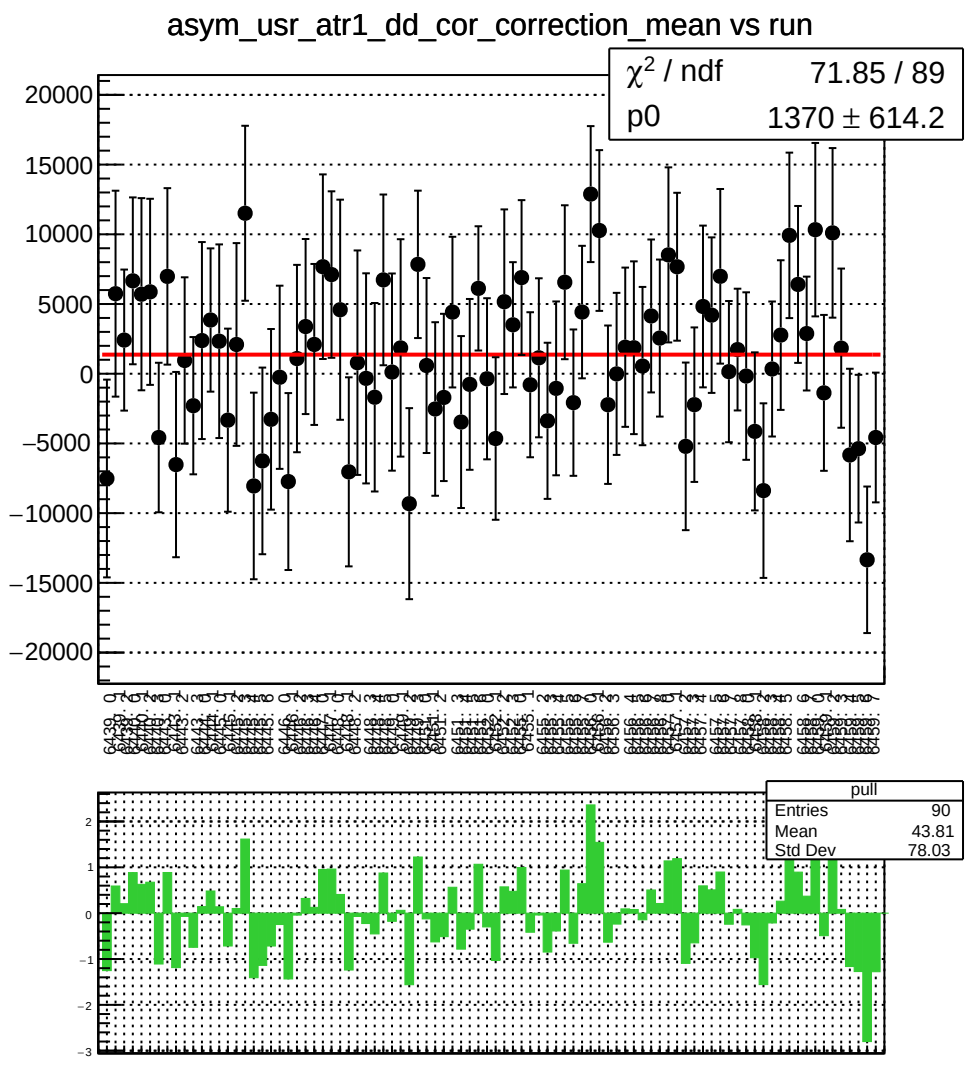

pull1D
Entries 90
Mean −0.01327
Std Dev 0.8934

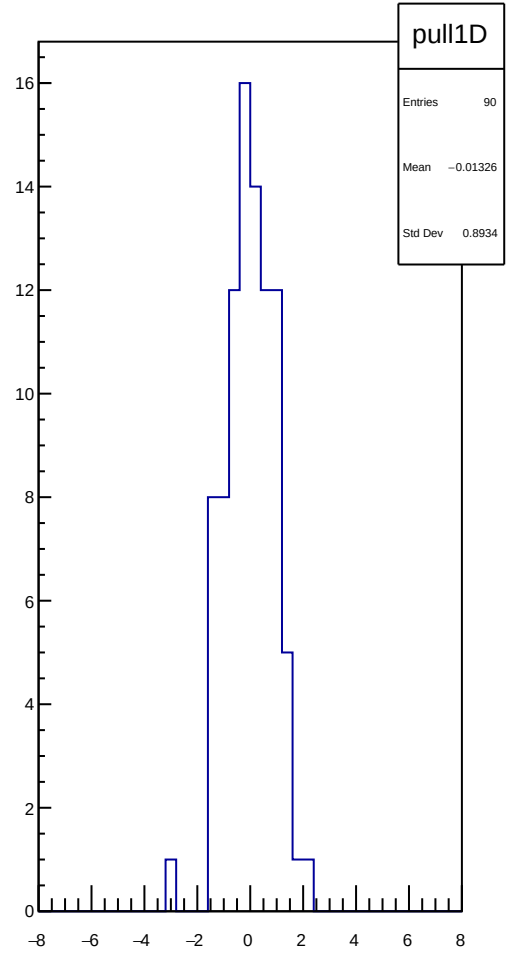

asym_usr_atr1_dd_reg_correction_rms vs run
χ² / ndf 2.203e+04 / 89
p0 576.2 ± 0.4343
800
750
700
650
600
550
500
450

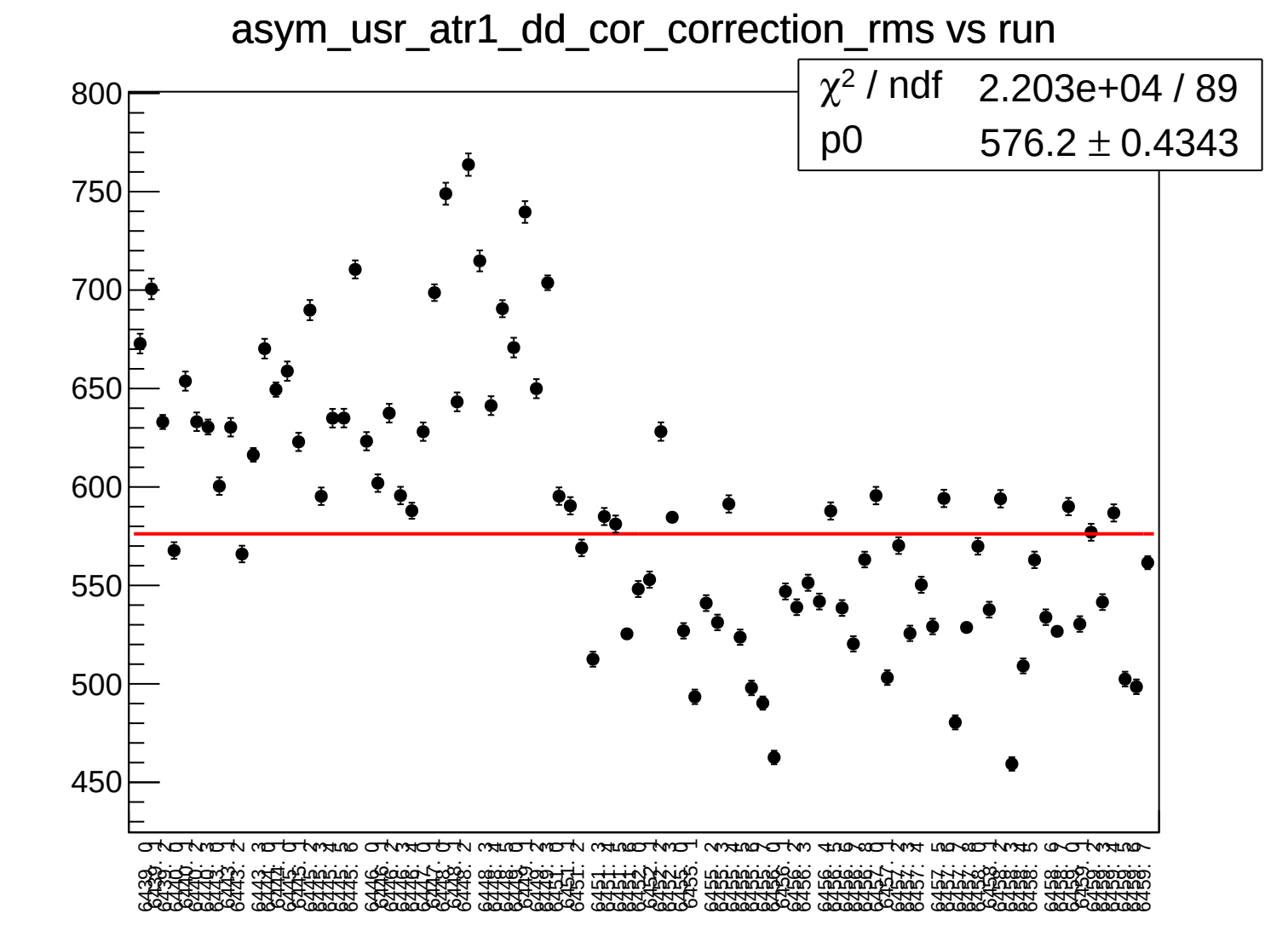

cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 92.28 / 89
p0 2145 ± 1390
40000
20000
0
−20000
−40000
pull
Entries 90
Mean 145.3
Std Dev 0
2
1
0
−1
−2

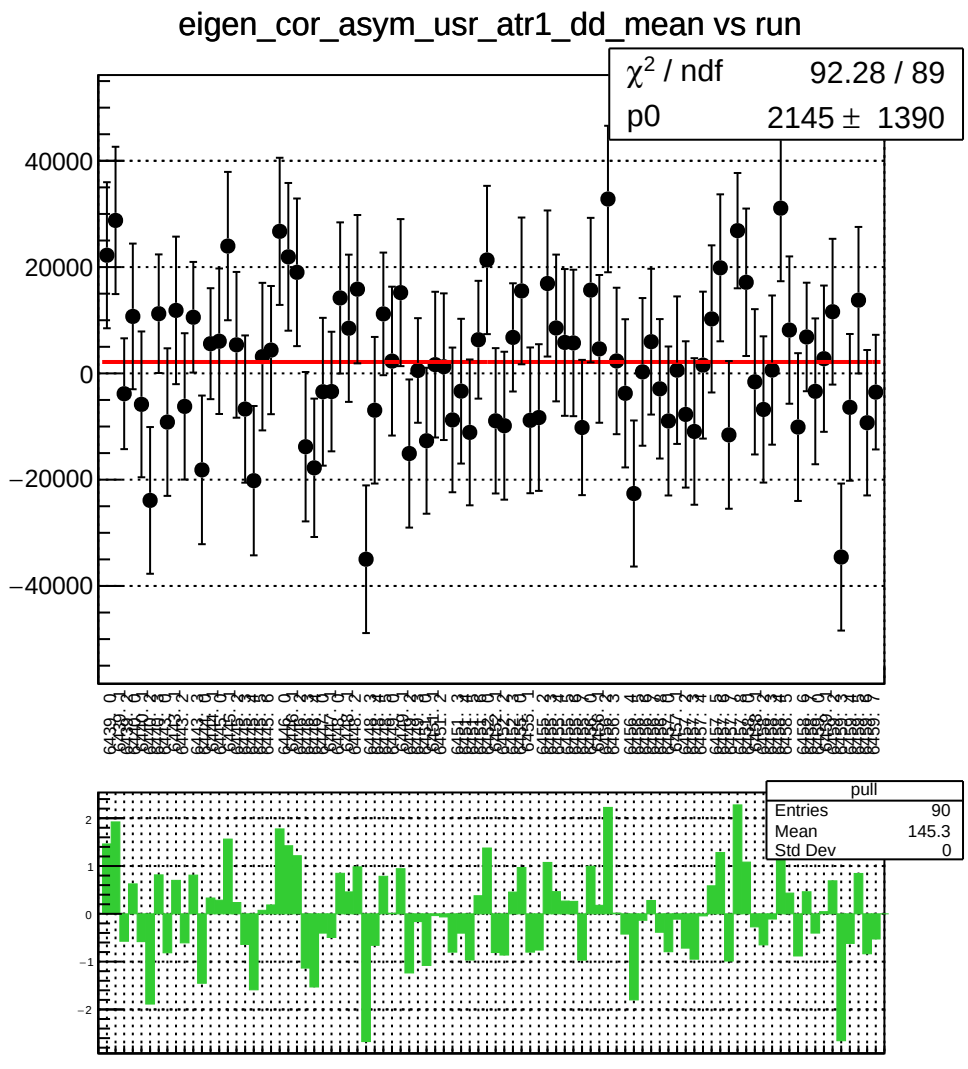

pull1D
Entries 90
Mean −0.01213
Std Dev 1.013
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

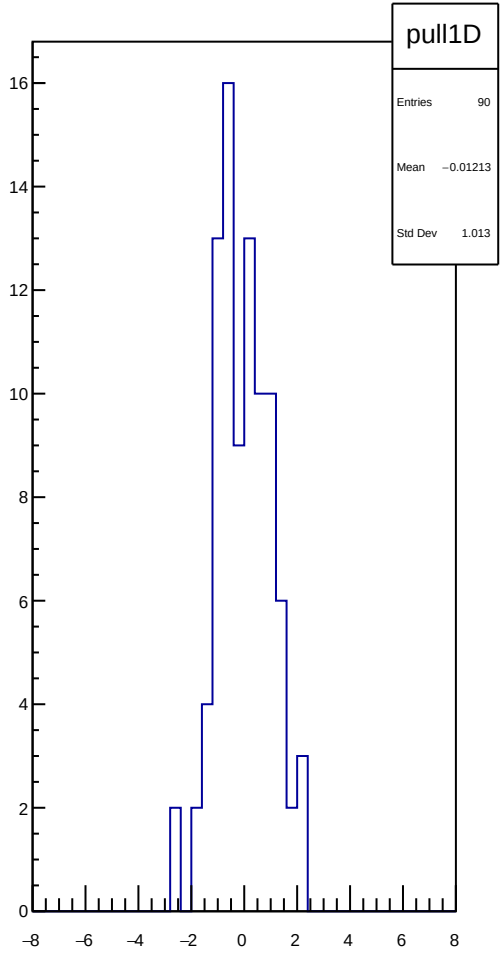

cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 104.1 / 89
p0 1312 ± 0.9827
1360
1350
1340
1330
1320
1310
1300
1290
1280

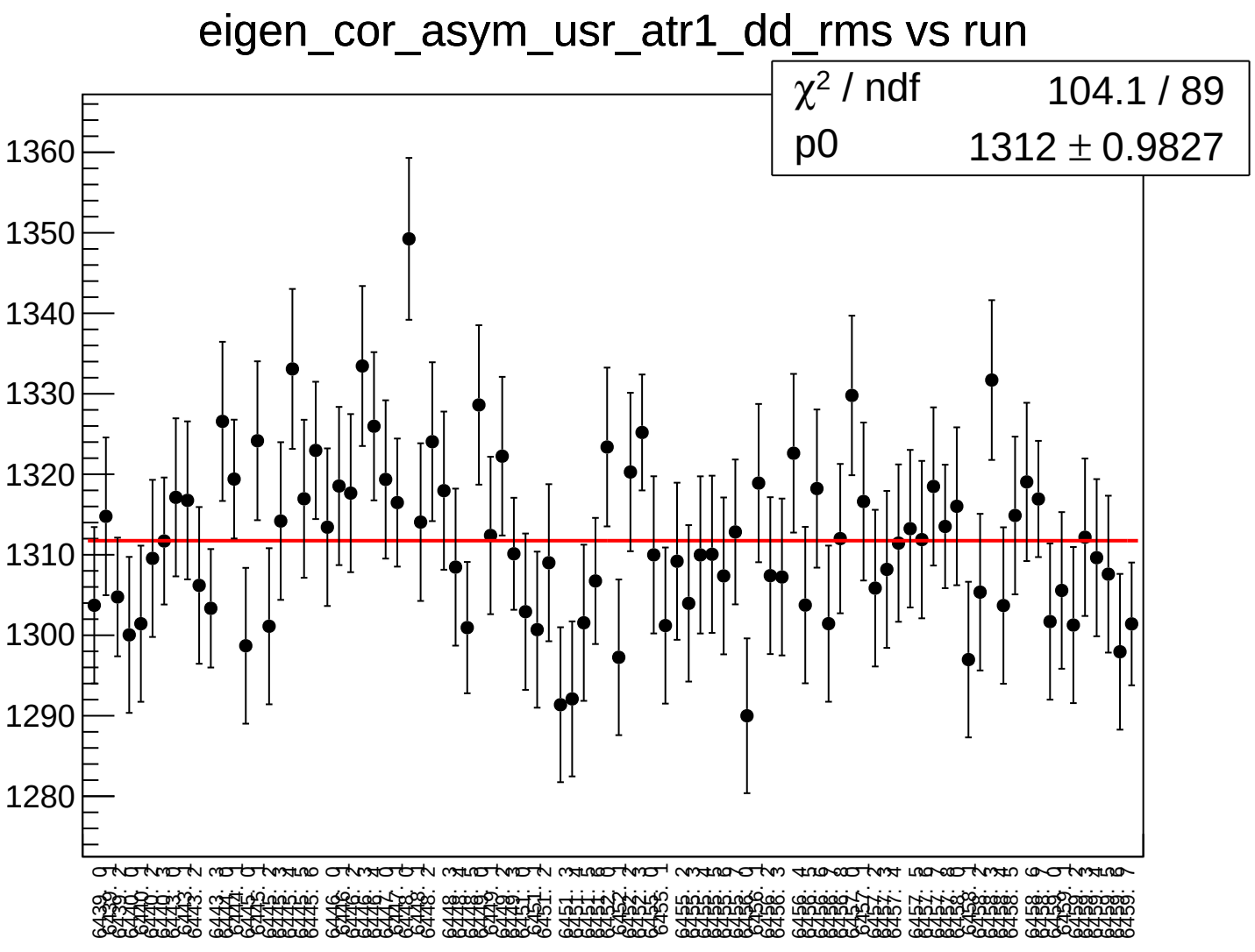

asym_usr_atr1_dd_cor_correction_mean vs run
χ² / ndf 71.85 / 89
p0 1370 ± 614.2
pull
Entries 90
Mean 43.81
Std Dev 78.03

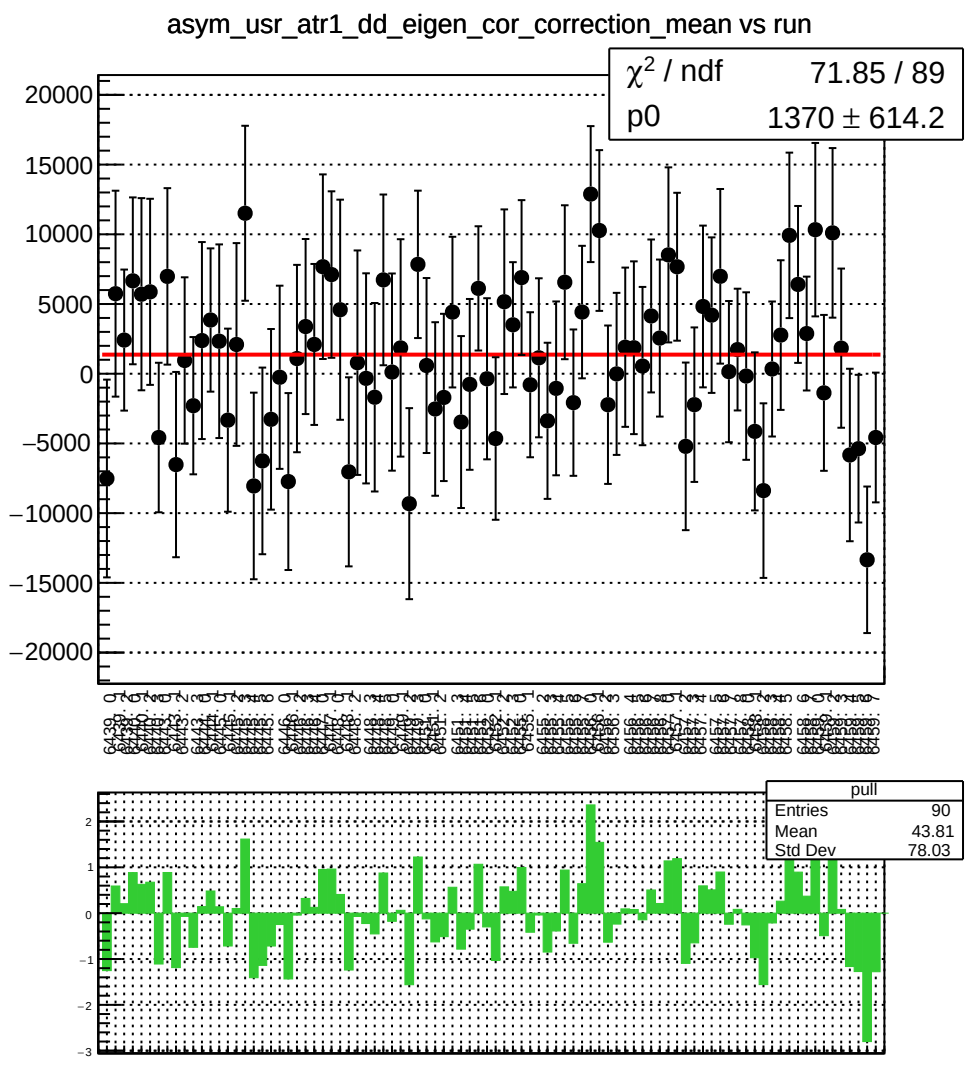

pull1D
Entries 90
Mean −0.01326
Std Dev 0.8934

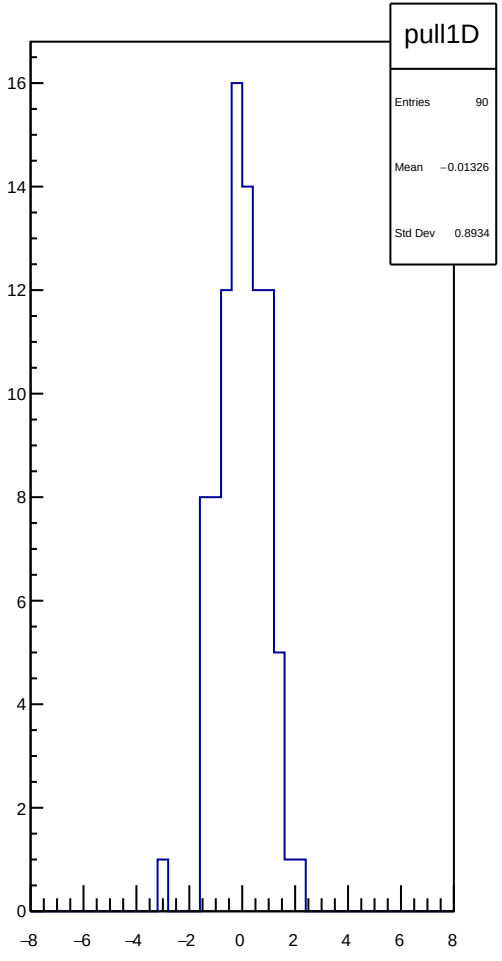

asym_usr_atr1_dd_cor_correction_rms vs run
χ^2 / ndf 2.203e+04 / 89
p0 576.2 ± 0.4343
800
750
700
650
600
550
500
450

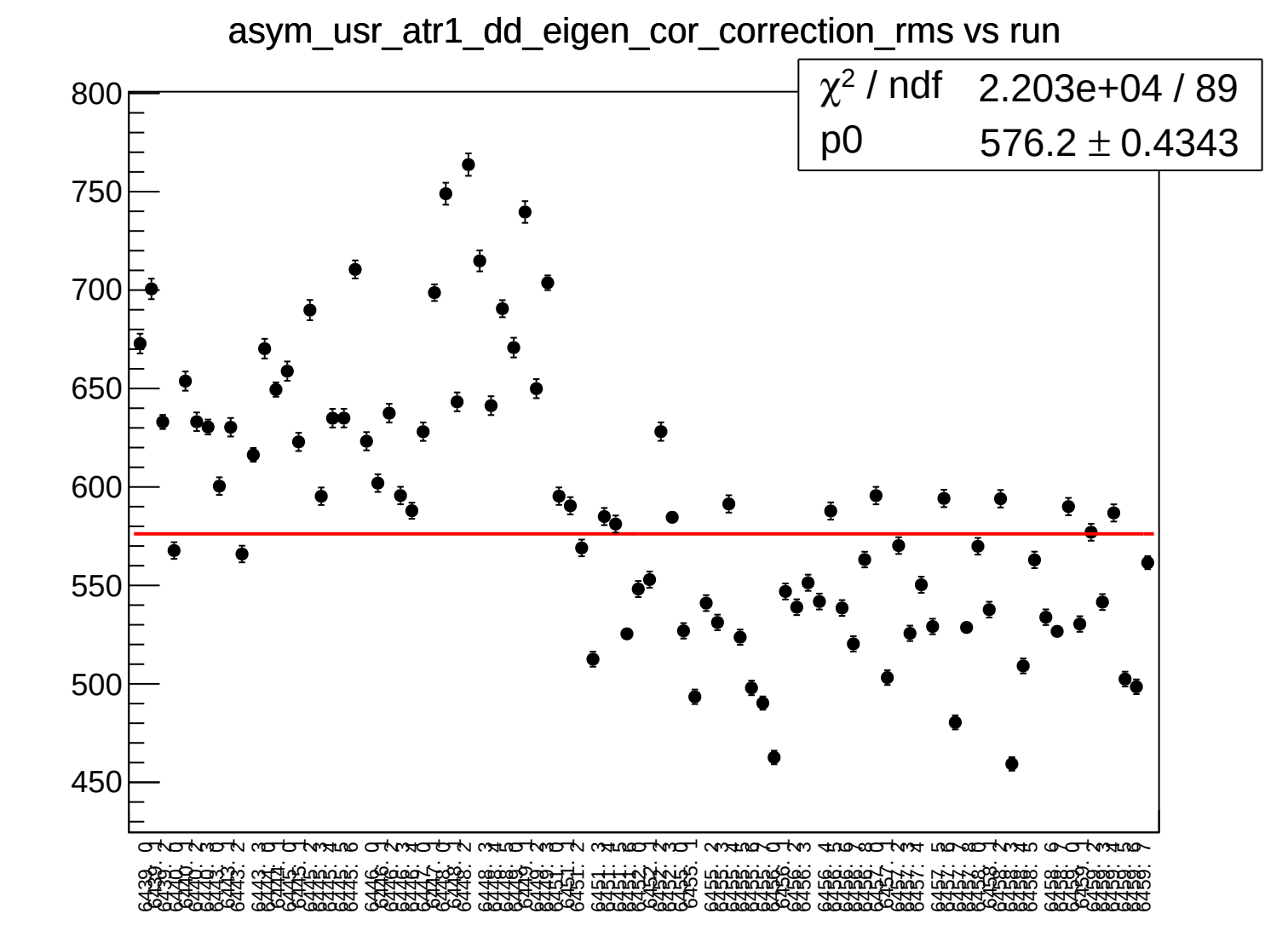

eigen_cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 92.28 / 89
p0 2145 ± 1390
40000
20000
0
−20000
−40000
pull
Entries 90
Mean 145.3
Std Dev 0
2
1
0
−1
−2

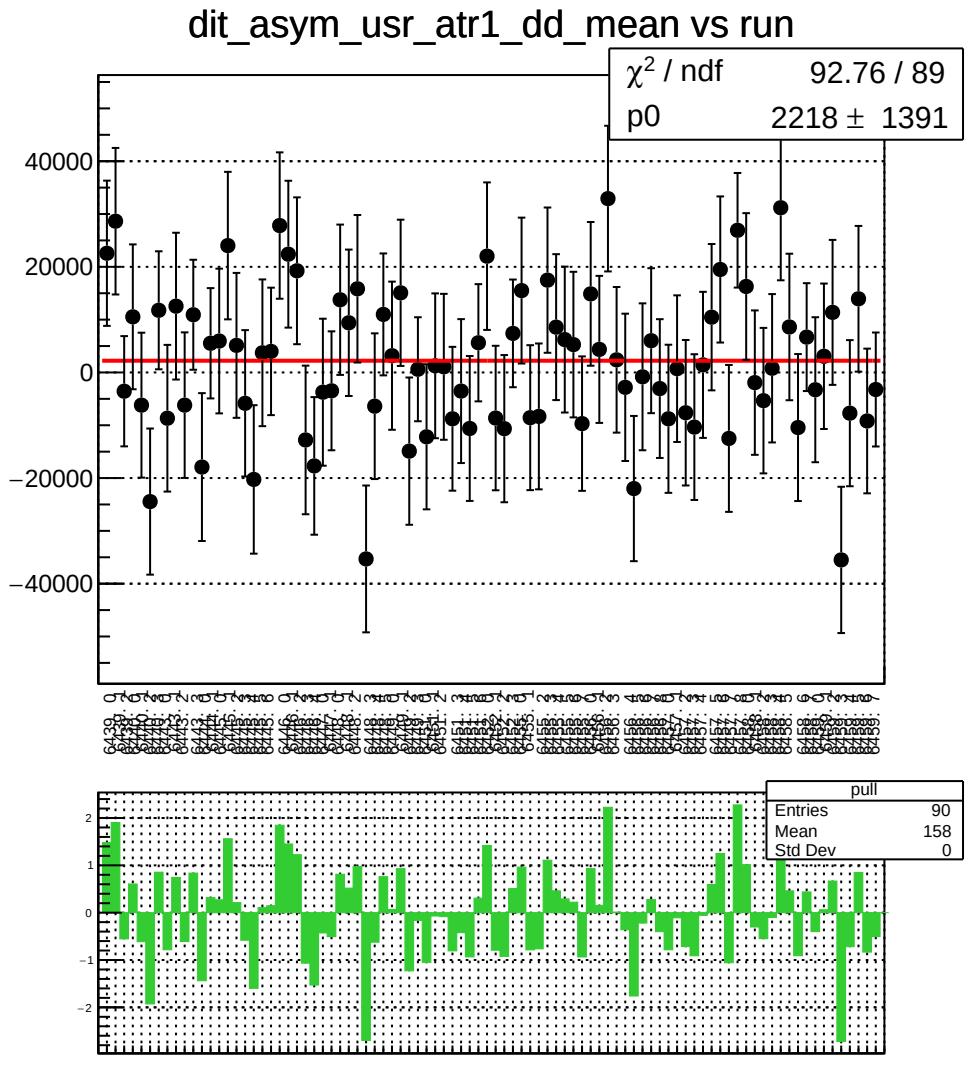

pull1D
Entries 90
Mean −0.01213
Std Dev 1.013
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

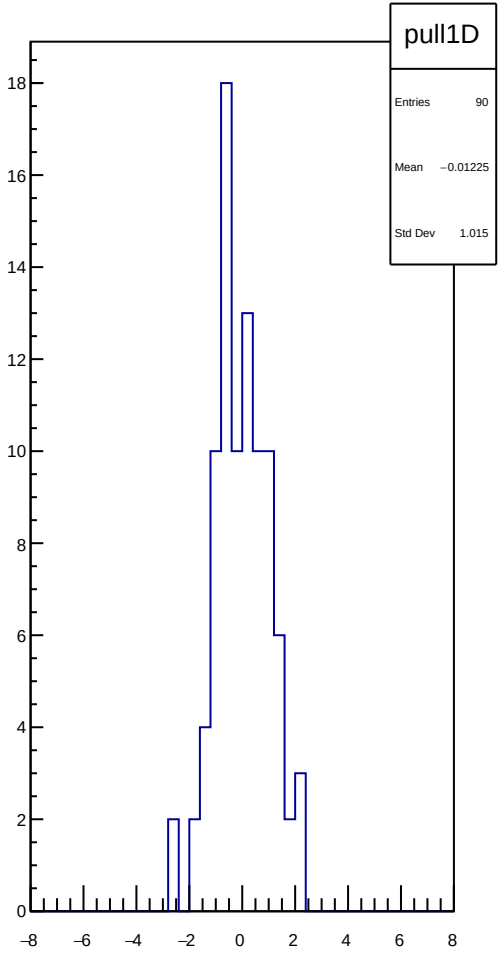

eigen_cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 104.1 / 89
p0 1312 ± 0.9827
1360
1350
1340
1330
1320
1310
1300
1290
1280

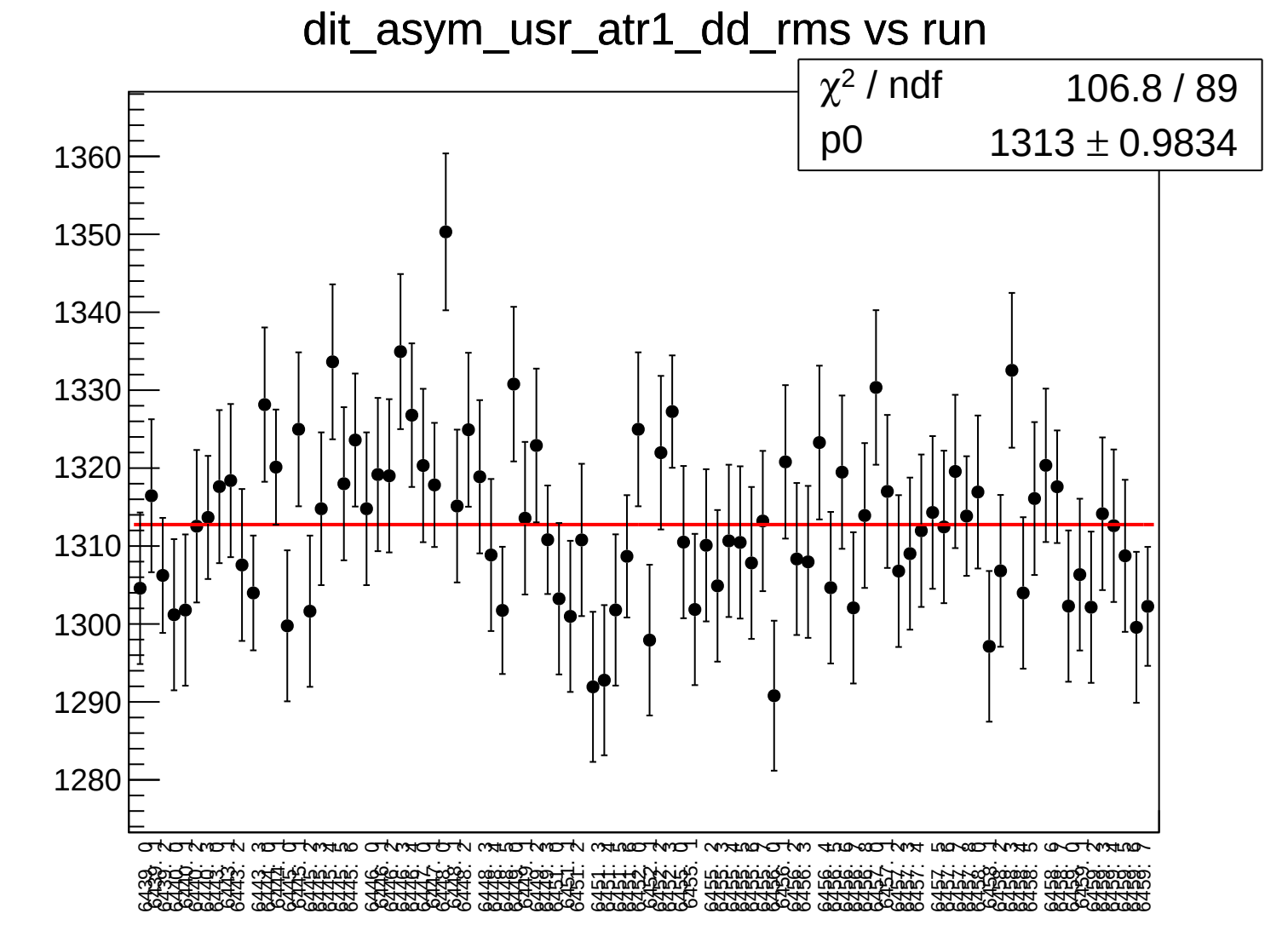

asym_usr_atr1_dd_eigen_cor_correction_mean vs run
χ² / ndf 71.85 / 89
p0 1370 ± 614.2
pull
Entries 90
Mean 43.81
Std Dev 78.03

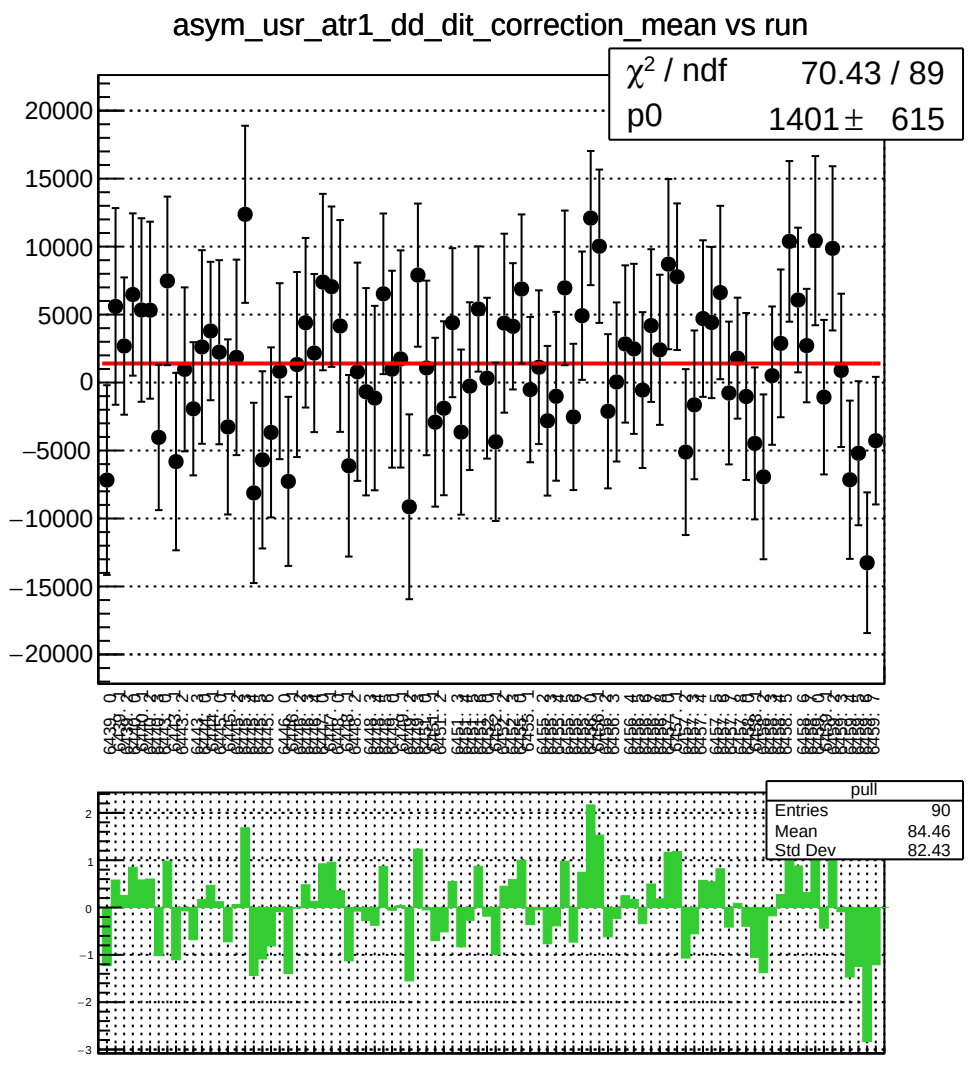

pull1D
Entries 90
Mean −0.01326
Std Dev 0.8934

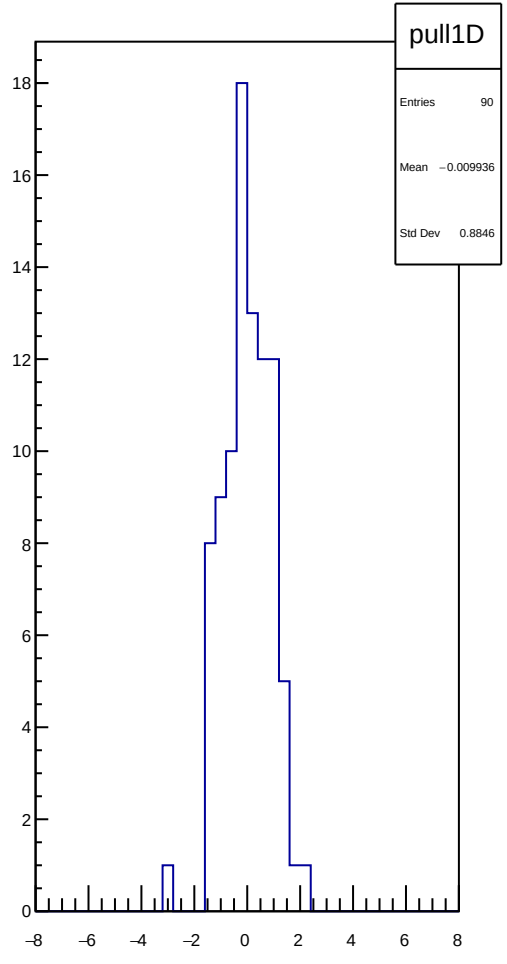

asym_usr_atr1_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.203e+04 / 89
p0 576.2 ± 0.4343
800
750
700
650
600
550
500
450

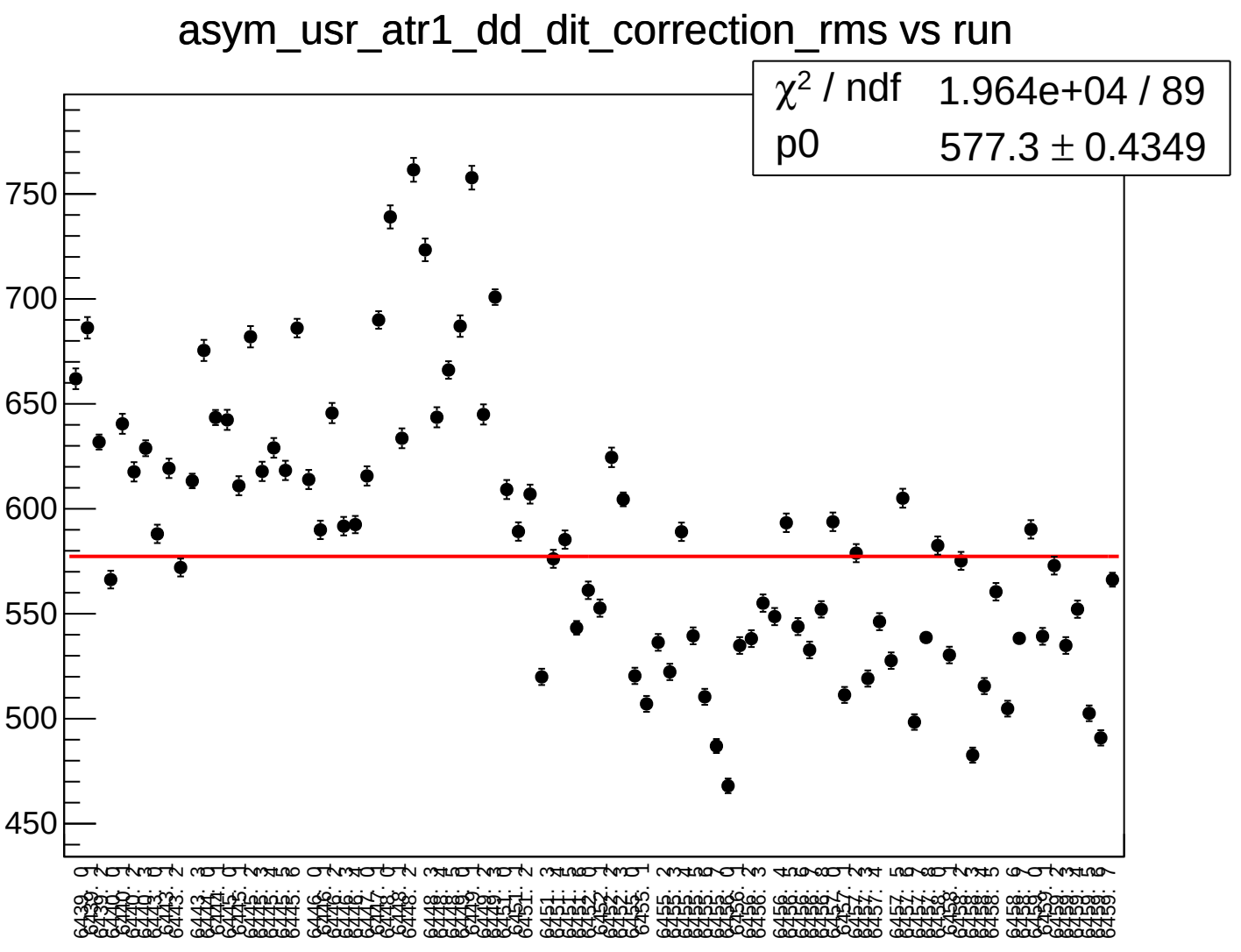

dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 92.76 / 89
p0 2218 ± 1391
40000
20000
0
−20000
−40000
pull
Entries 90
Mean 158
Std Dev 0
2
1
0
−1
−2

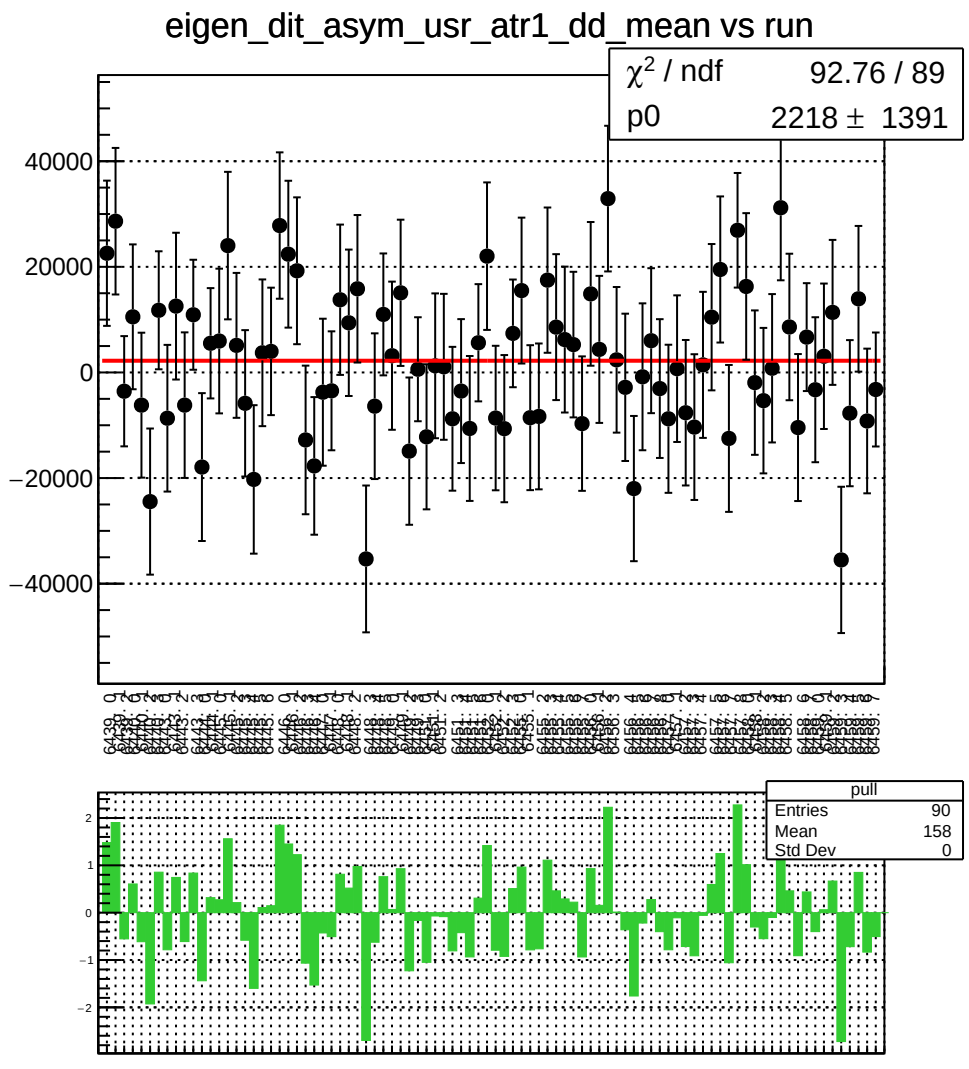

pull1D
Entries 90
Mean −0.01225
Std Dev 1.015
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

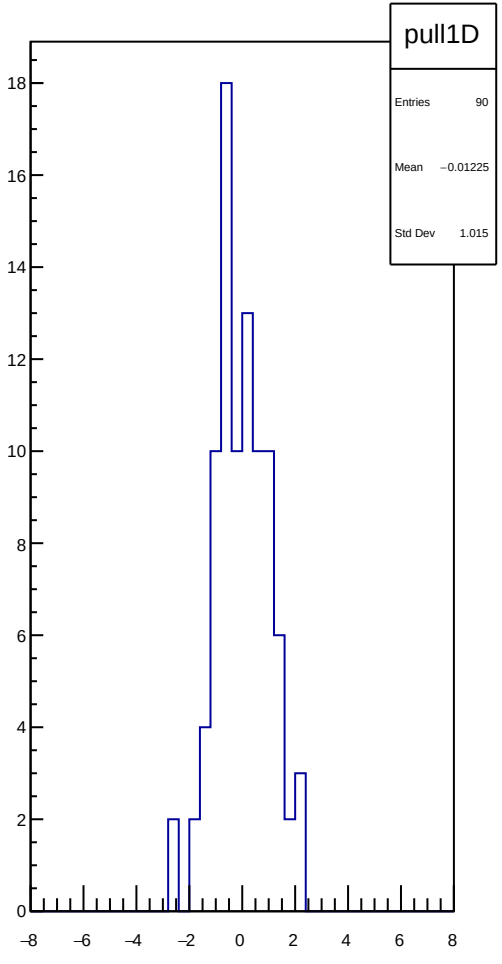

dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 106.8 / 89
p0 1313 ± 0.9834
1360
1350
1340
1330
1320
1310
1300
1290
1280


asym_usr_atr1_dd_dit_correction_mean vs run
χ² / ndf 70.43 / 89
p0 1401 ± 615
pull
Entries 90
Mean 84.46
Std Dev 82.43

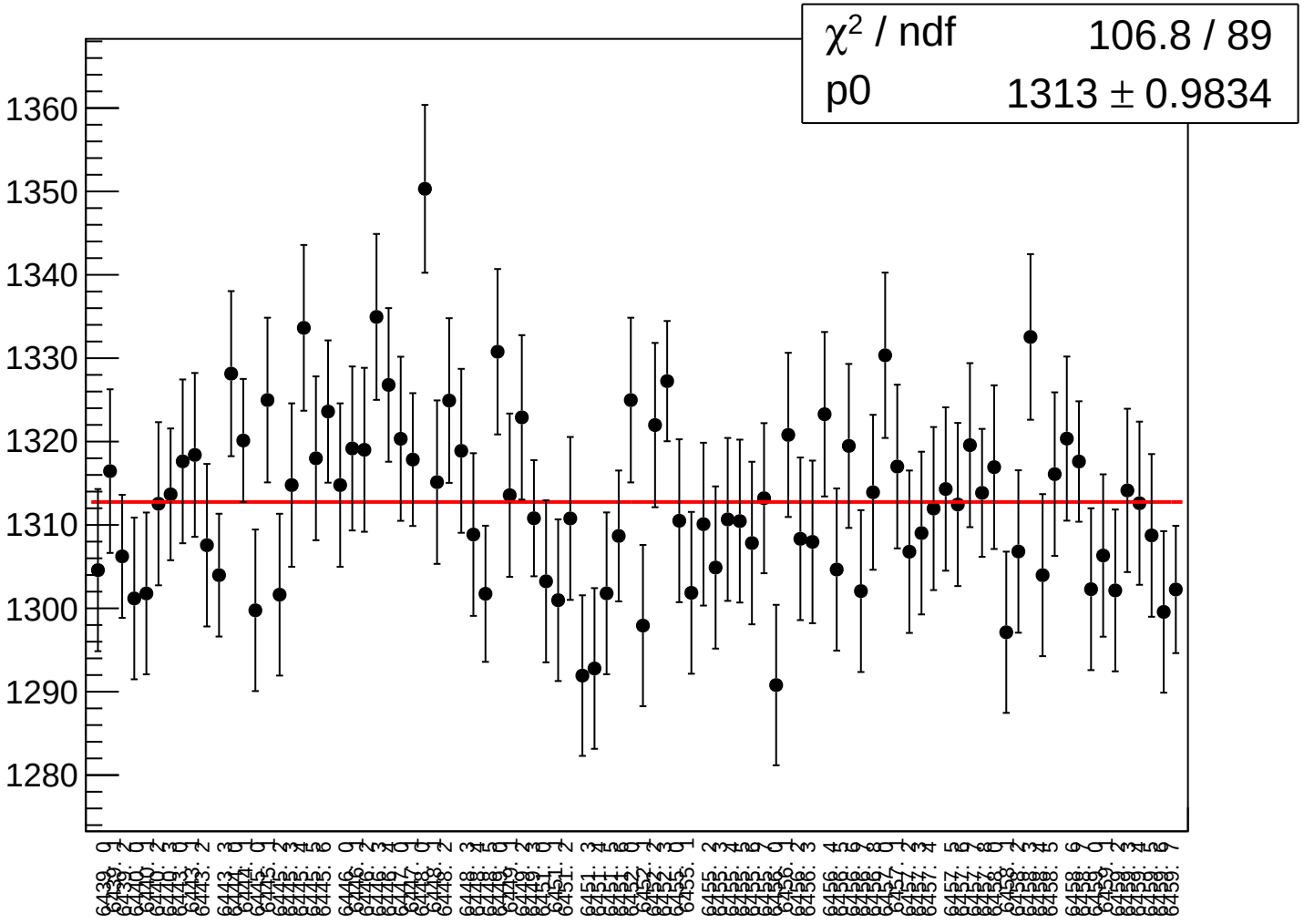

pull1D
Entries 90
Mean −0.009936
Std Dev 0.8846

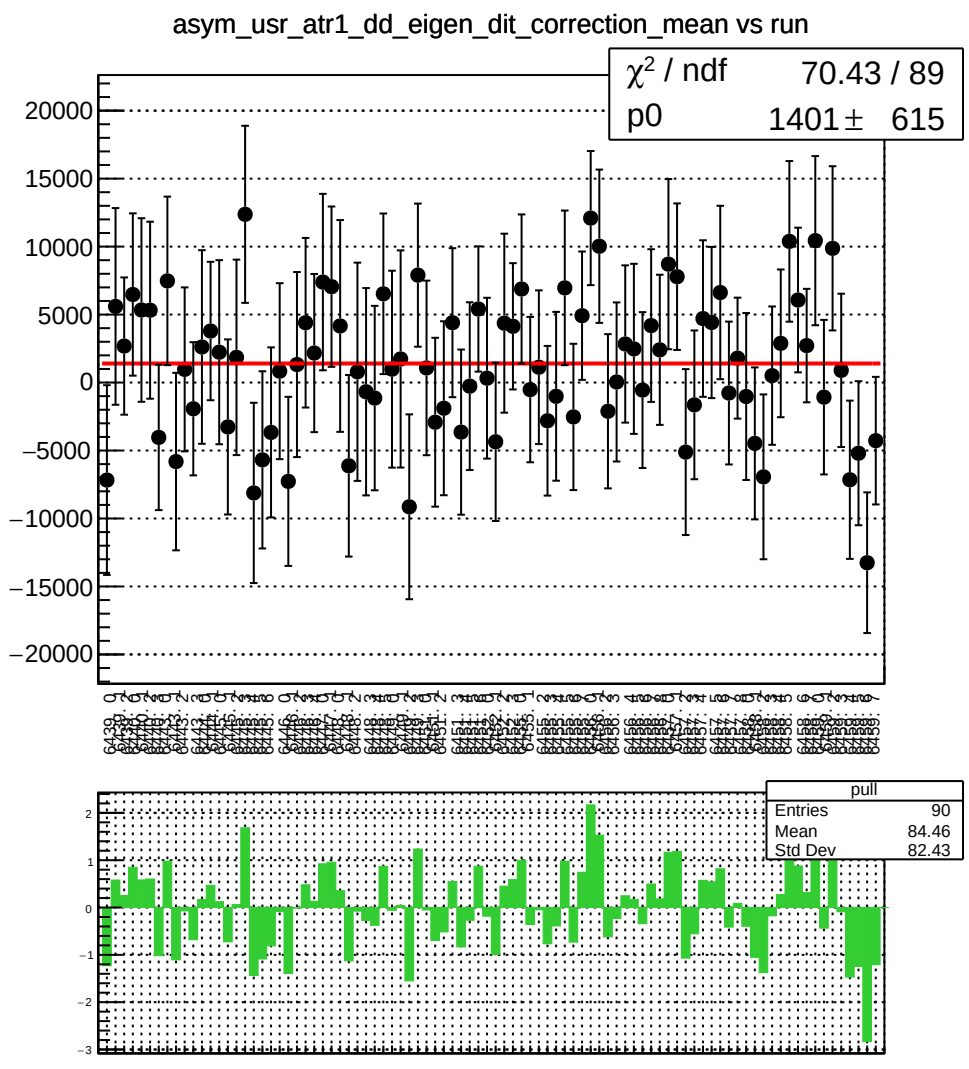

asym_usr_atr1_dd_dit_correction_rms vs run
χ² / ndf 1.964e+04 / 89
p0 577.3 ± 0.4349
750
700
650
600
550
500
450

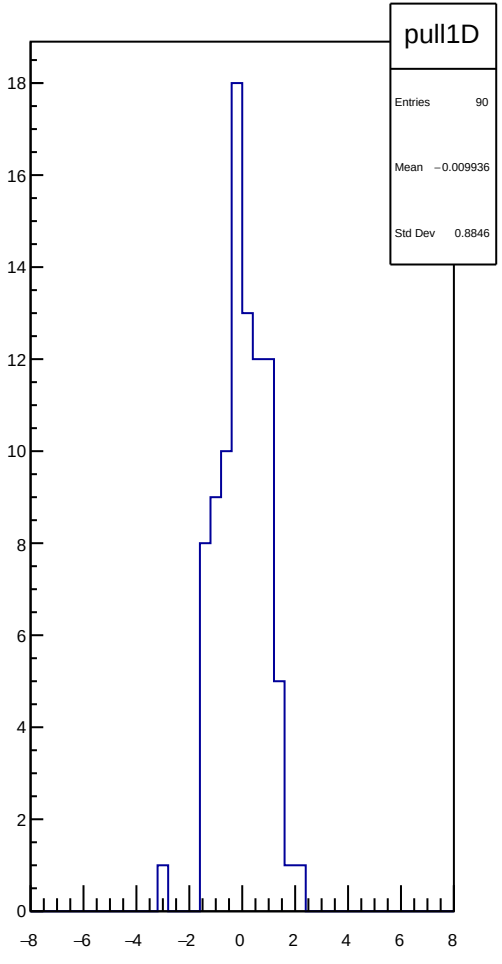

eigen_dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 92.76 / 89
p0 2218 ± 1391
40000
20000
0
−20000
−40000
pull
Entries 90
Mean 158
Std Dev 0
2
1
0
−1
−2

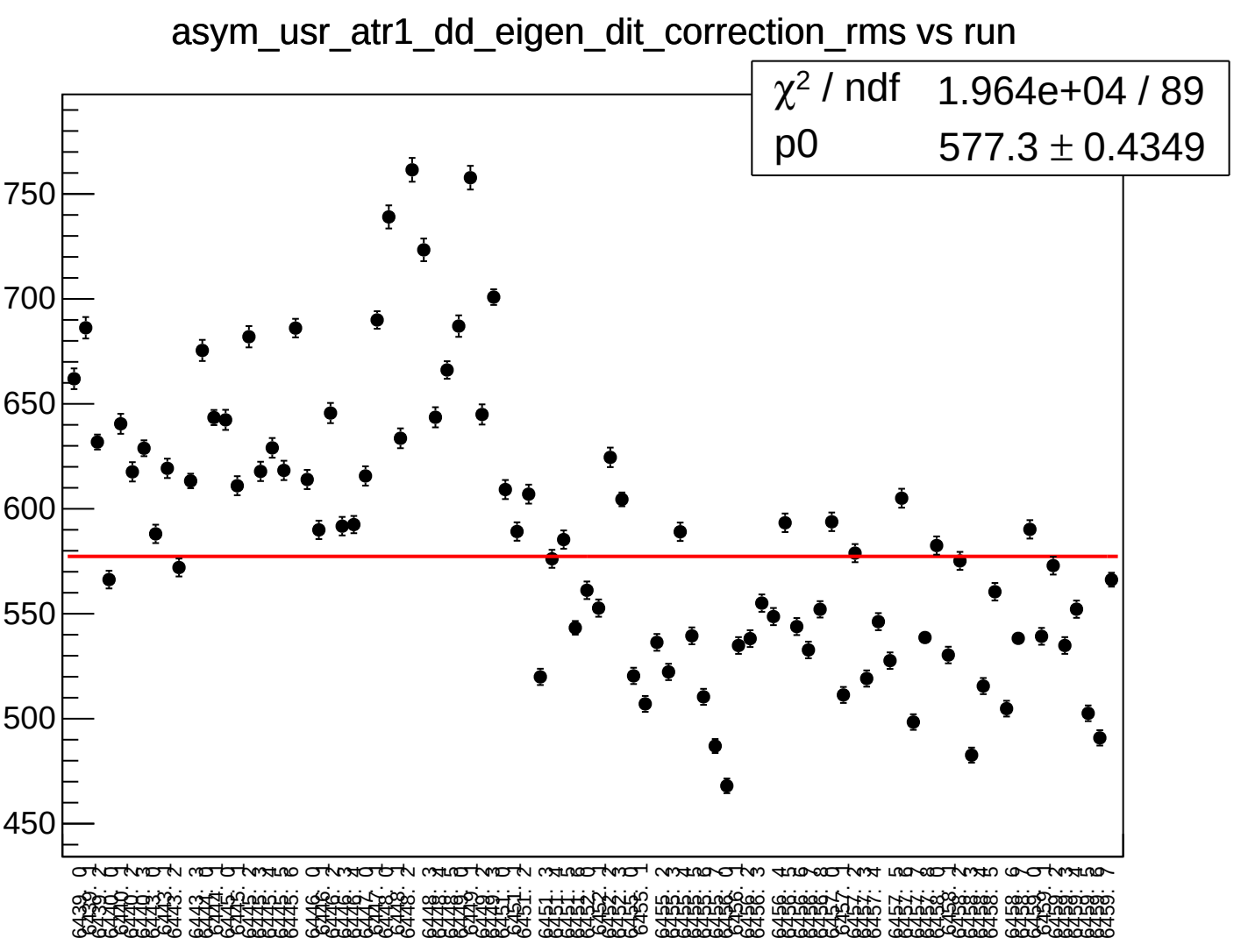

pull1D
Entries 90
Mean −0.01225
Std Dev 1.015
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

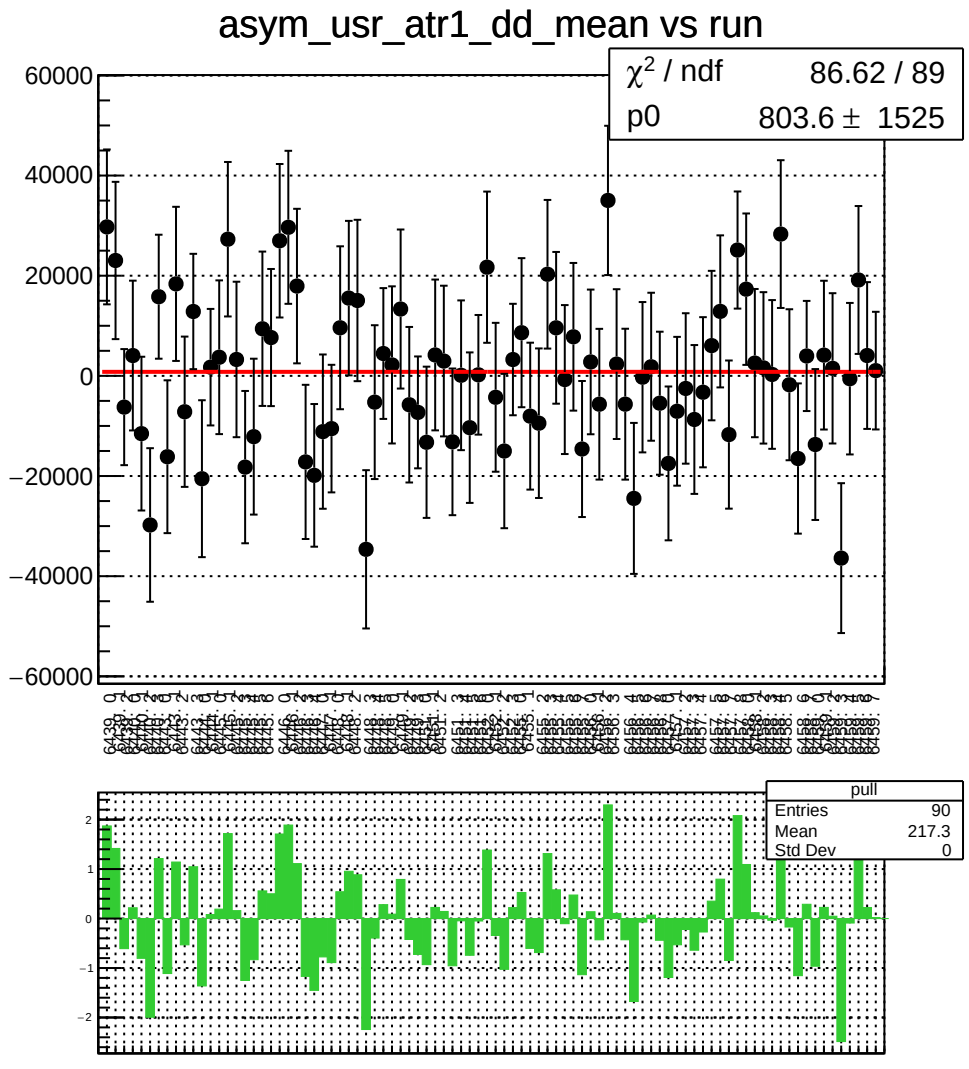
eigen_dit_asym_usr_atr1_dd_rms vs run

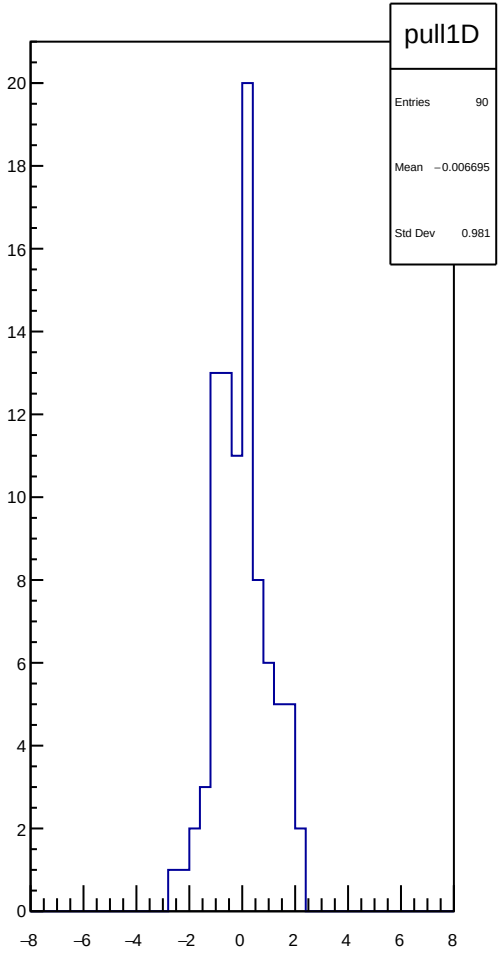


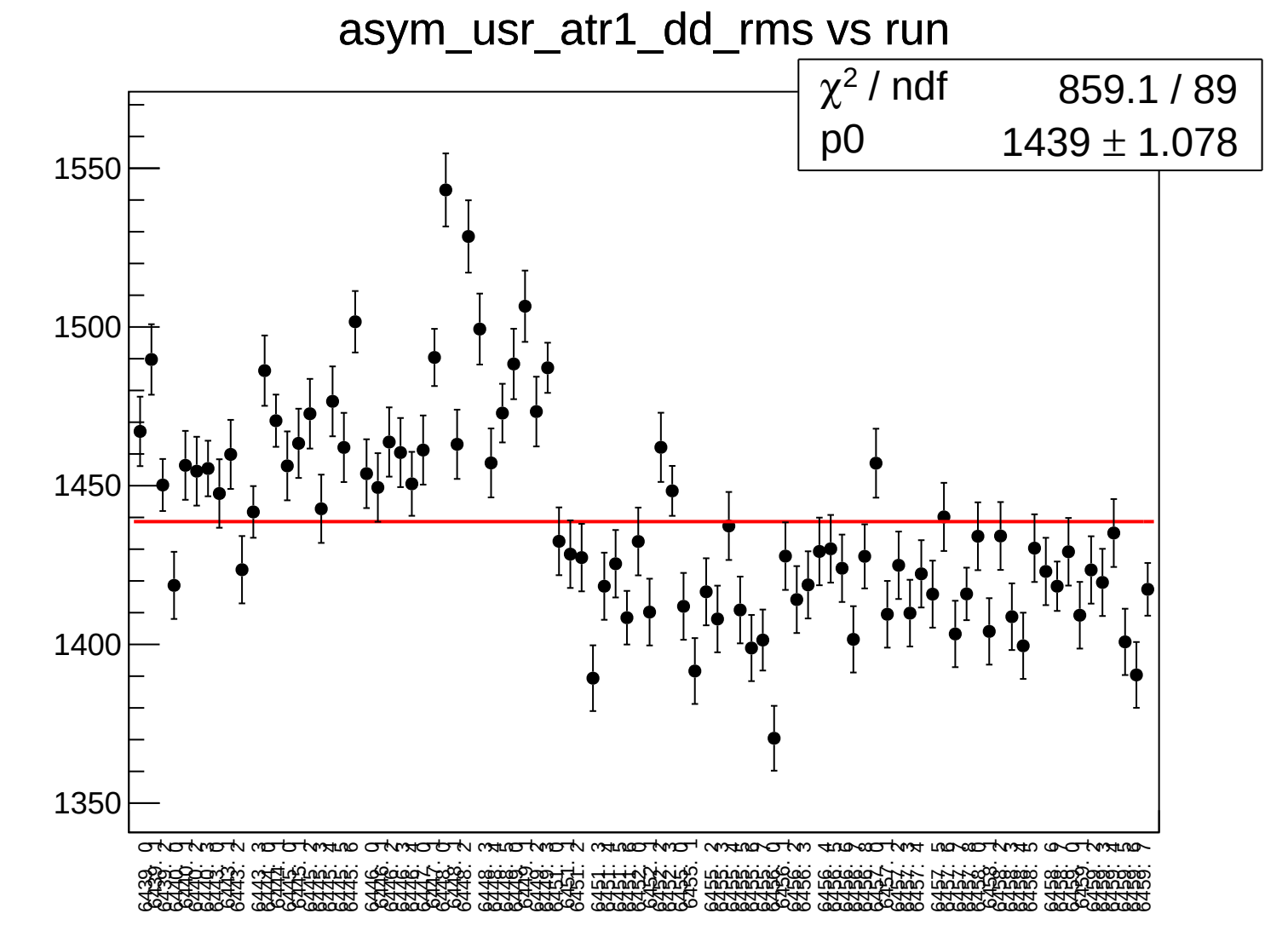

asym_usr_atr1_dd_eigen_dit_correction_mean vs run
χ² / ndf 70.43 / 89
p0 1401 ± 615
pull
Entries 90
Mean 84.46
Std Dev 82.43

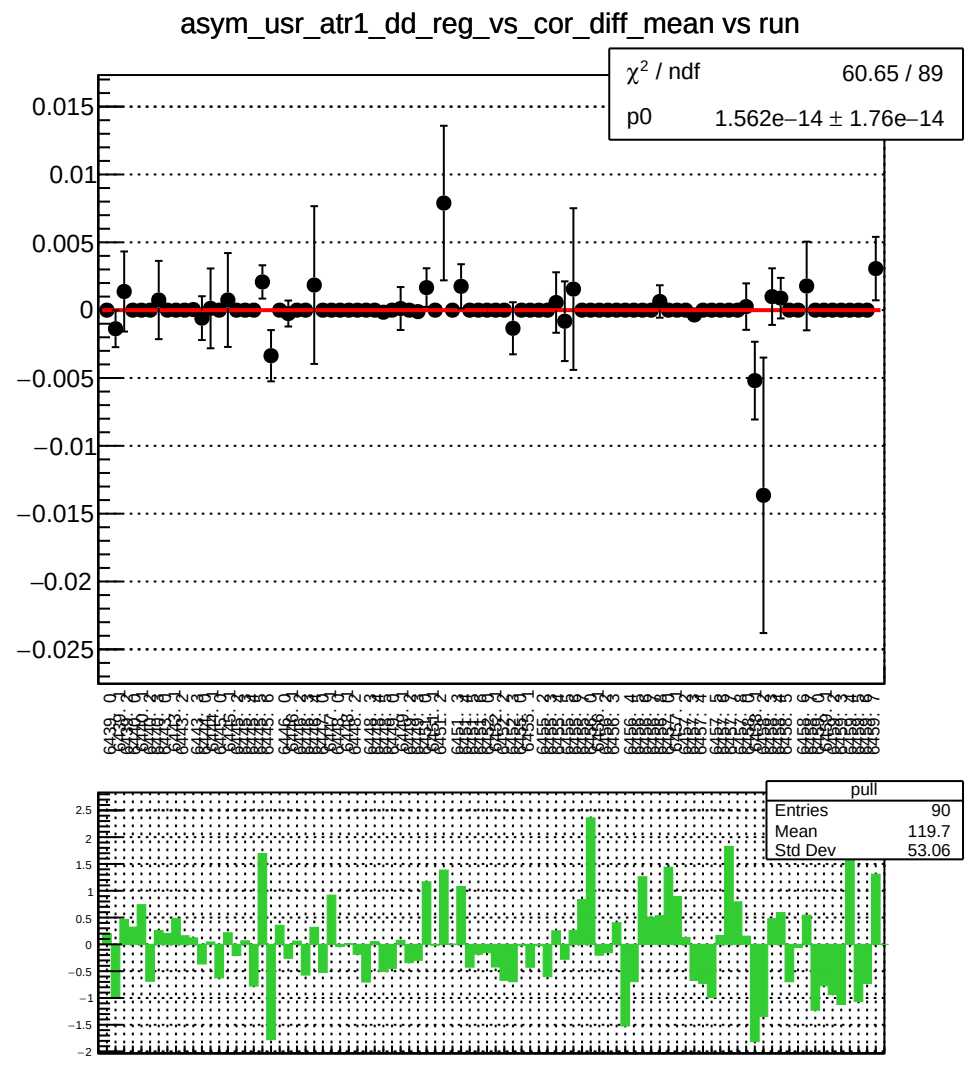

pull1D
Entries 90
Mean −0.009936
Std Dev 0.8846

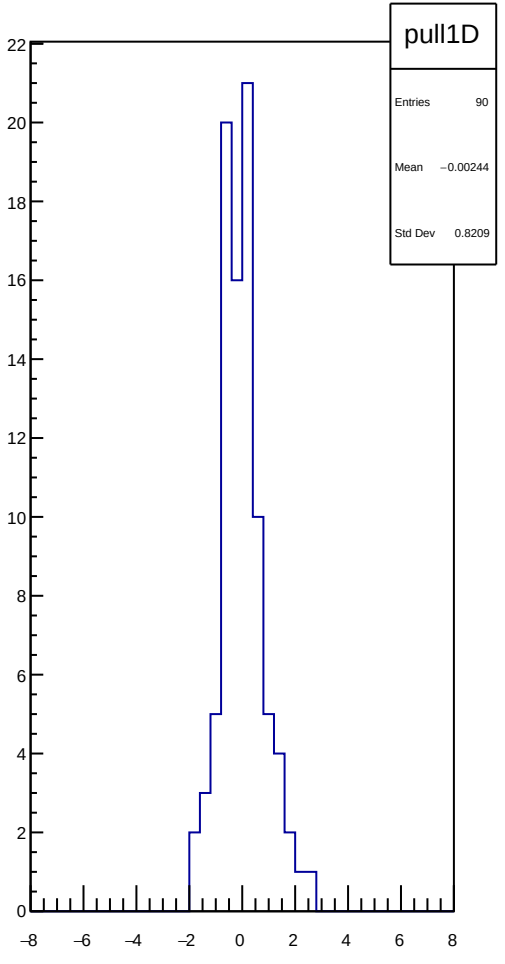

asym_usr_atr1_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.964e+04 / 89
p0 577.3 ± 0.4349
750
700
650
600
550
500
450

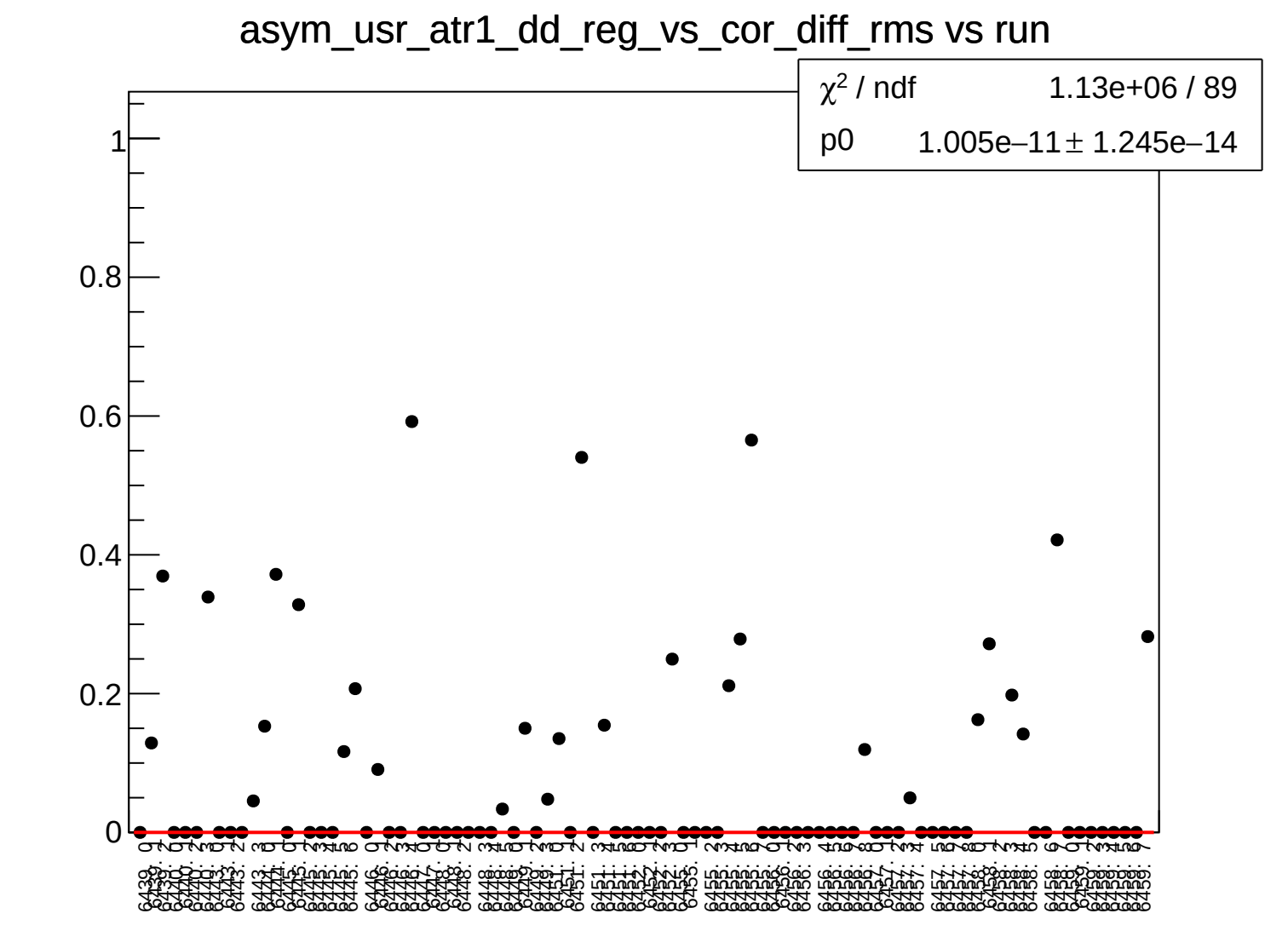

asym_usr_atr1_dd_mean vs run
χ² / ndf 86.62 / 89
p0 803.6 ± 1525
pull
Entries 90
Mean 217.3
Std Dev 0

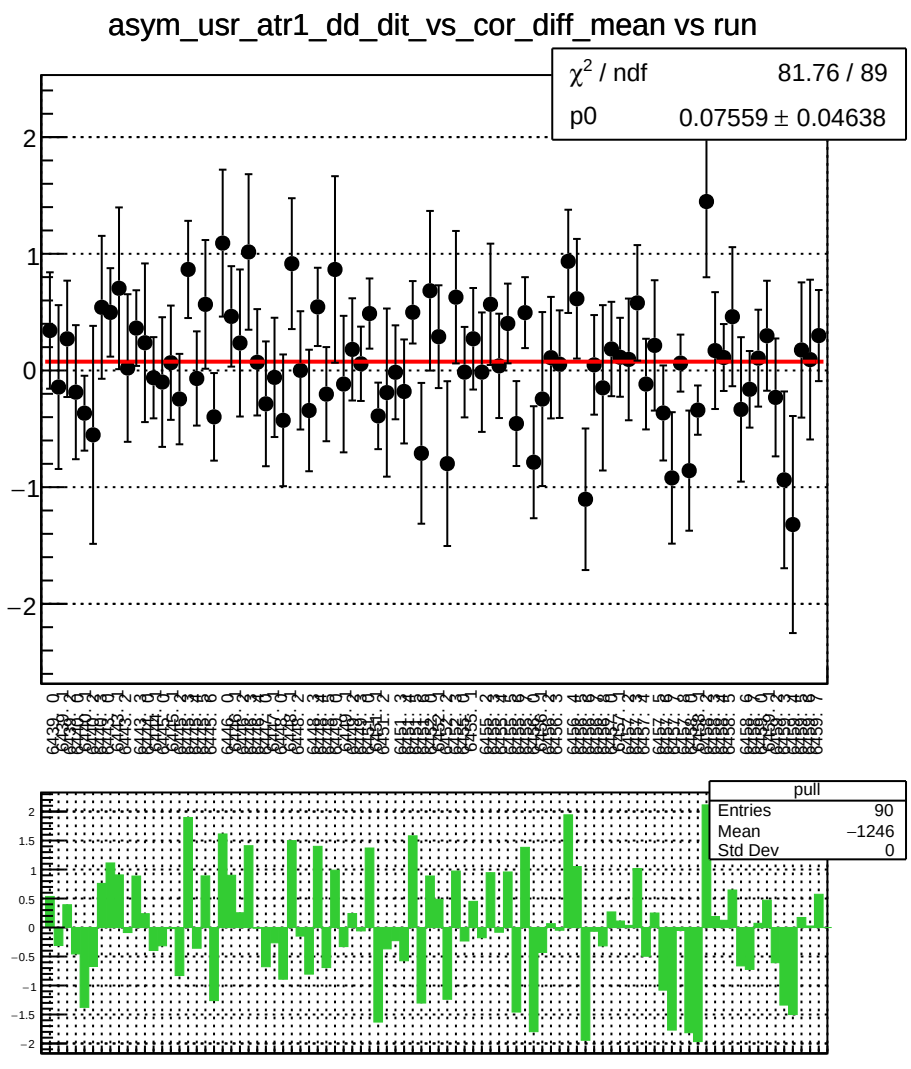

pull1D
Entries 90
Mean −0.006695
Std Dev 0.981

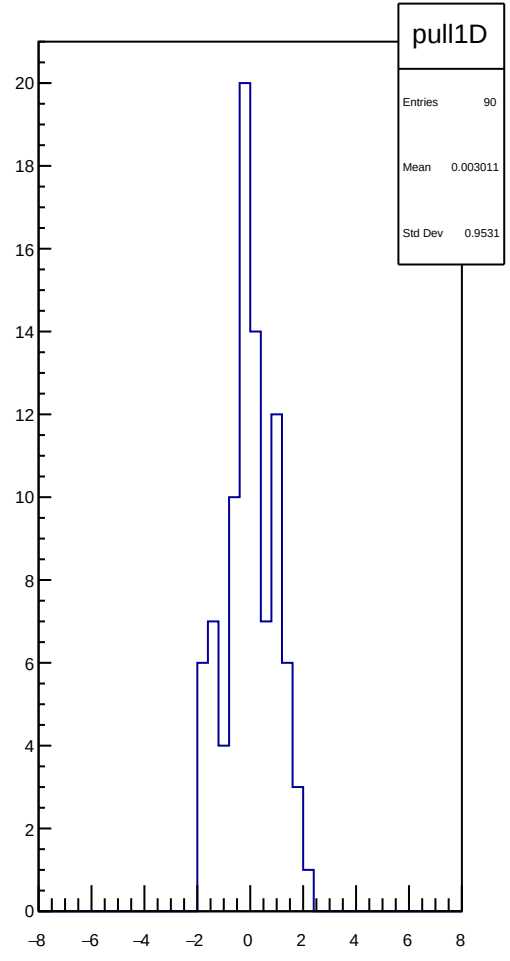

asym_usr_atr1_dd_rms vs run
χ² / ndf 859.1 / 89
p0 1439 ± 1.078
1550
1500
1450
1400
1350

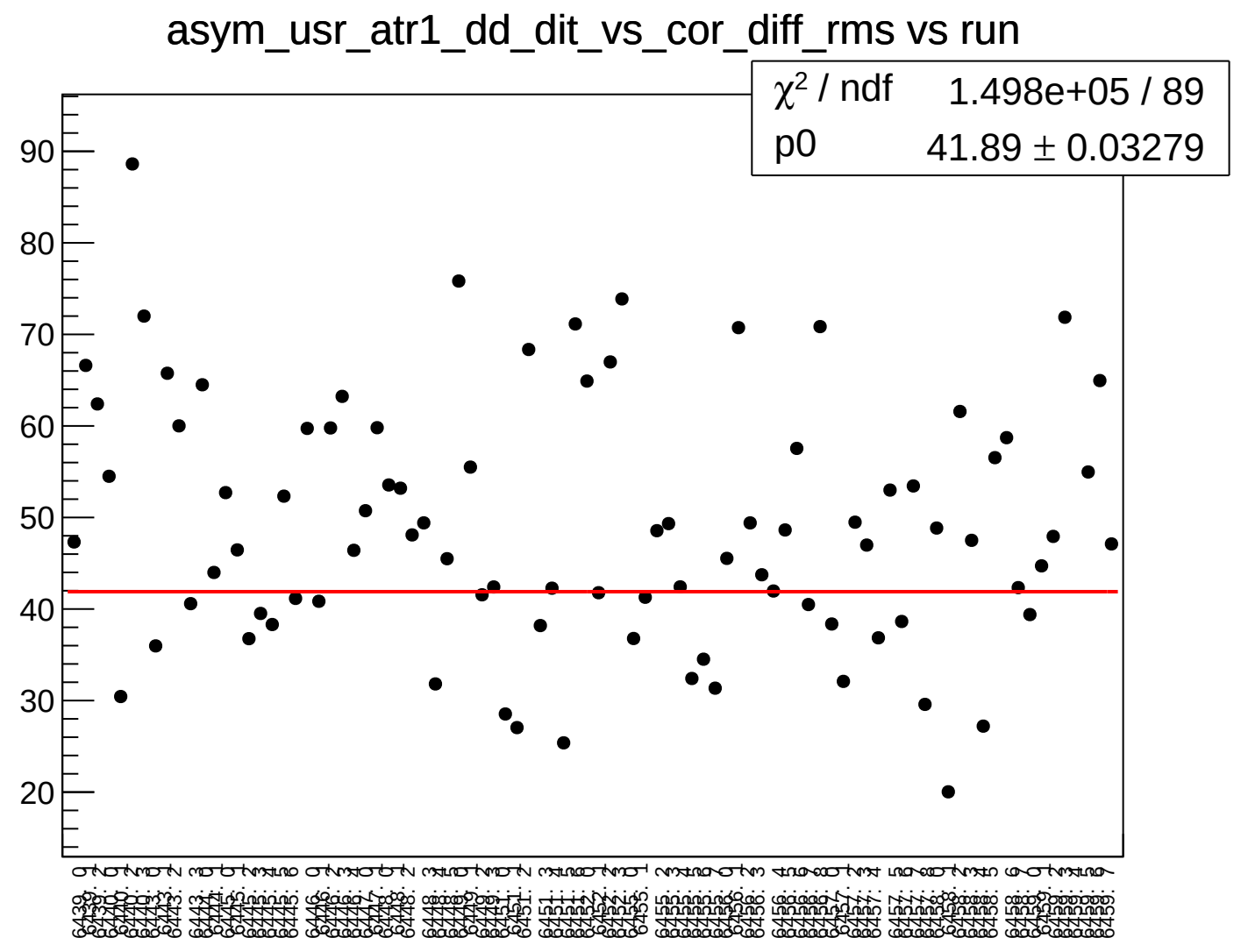

asym_usr_atr1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 60.65 / 89
p0 1.562e−14 ± 1.76e−14
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
−0.025
pull
Entries 90
Mean 119.7
Std Dev 53.06
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

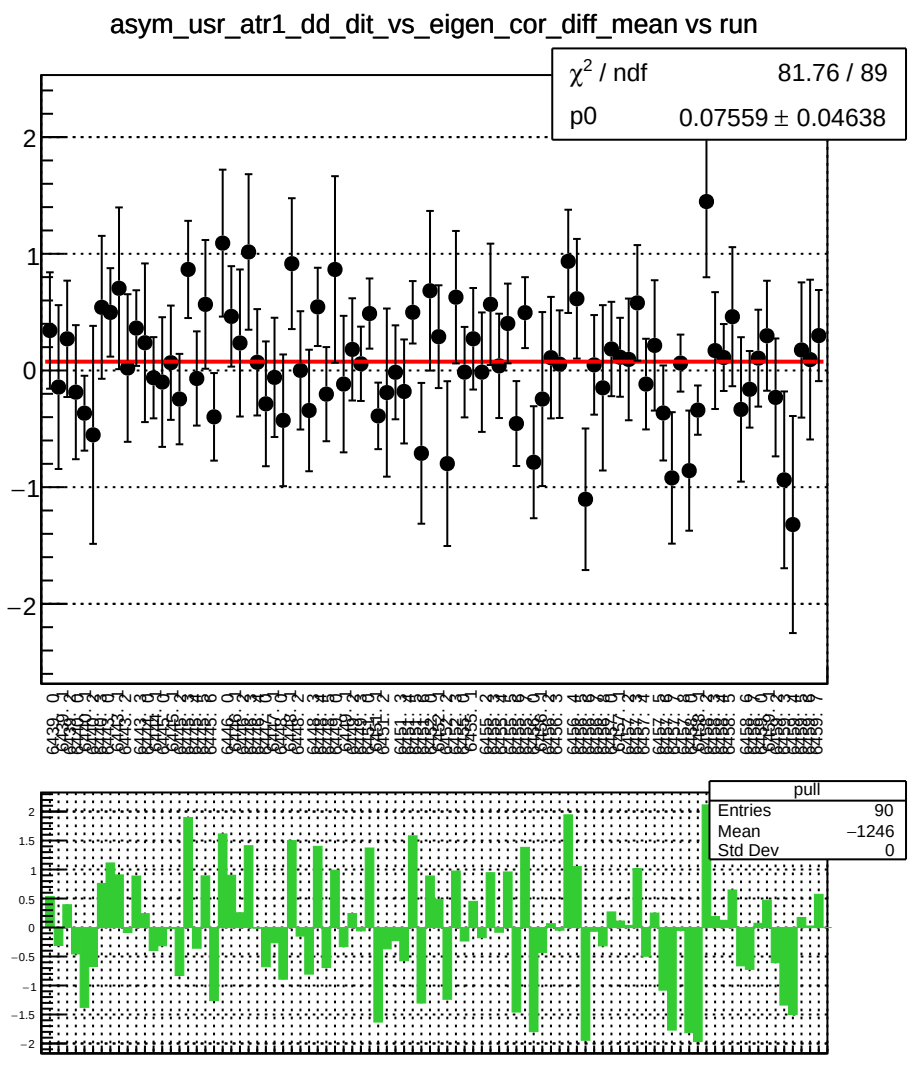

pull1D
Entries 90
Mean −0.00244
Std Dev 0.8209
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

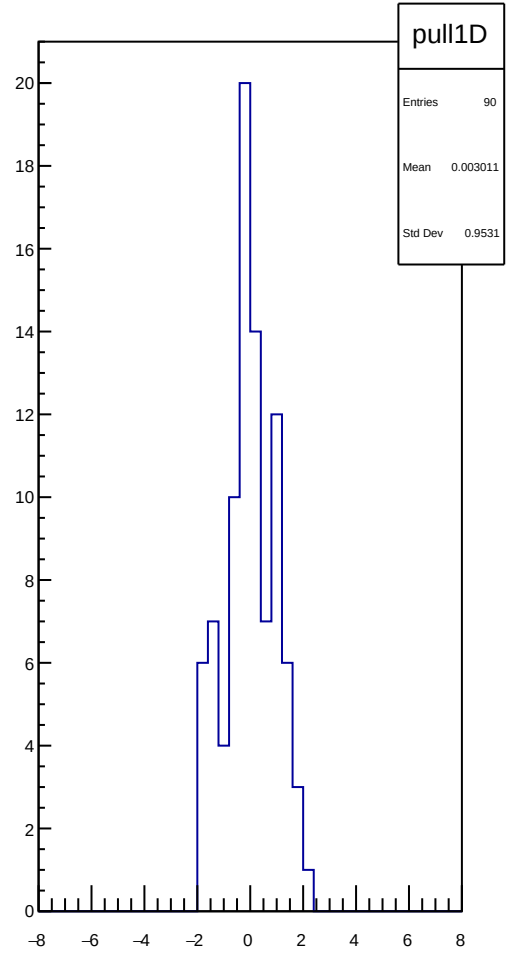

asym_usr_atr1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.13e+06 / 89
p0 1.005e−11 ± 1.245e−14
1
0.8
0.6
0.4
0.2
0

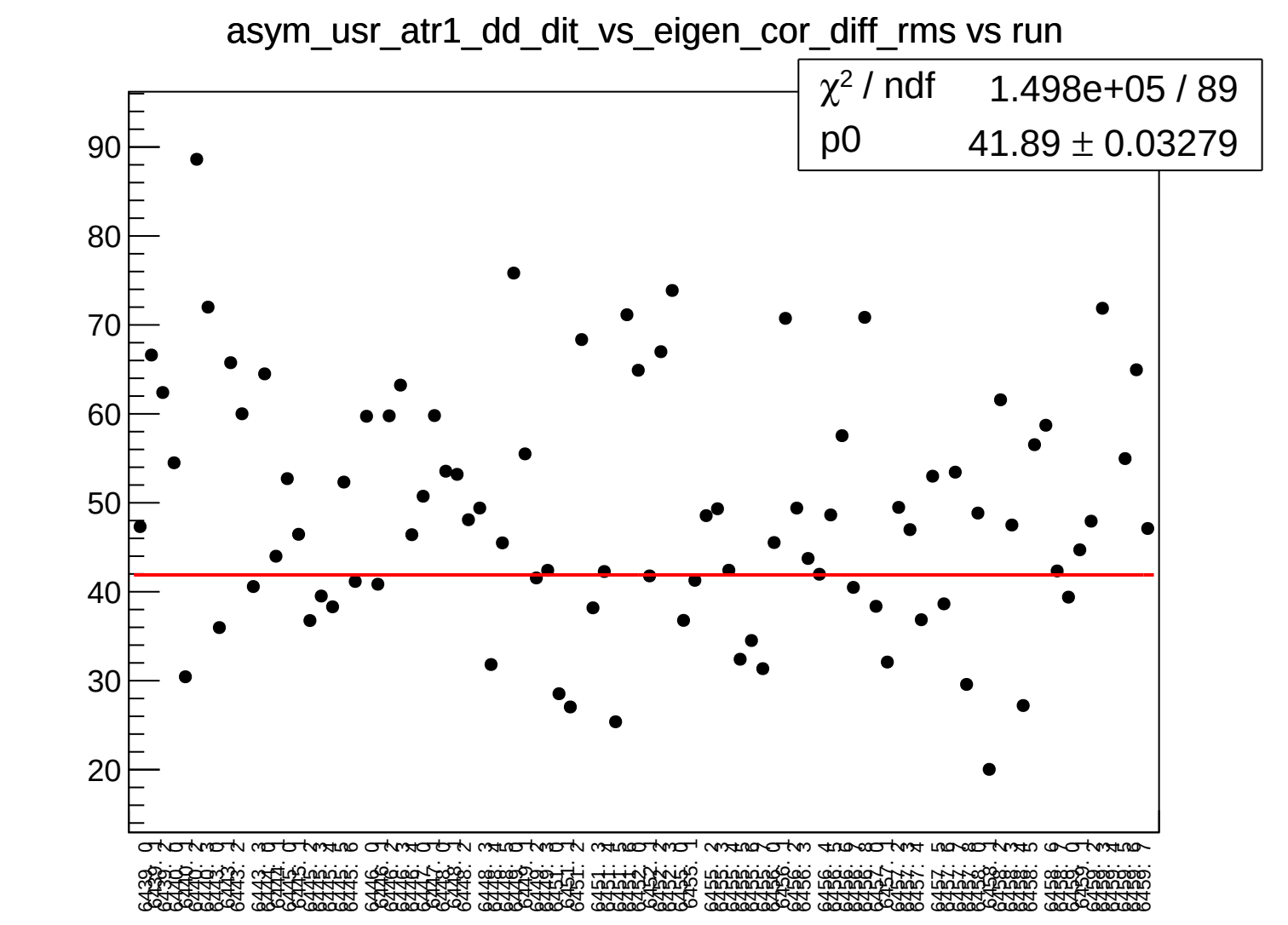

asym_usr_atr1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 81.76 / 89
p0 0.07559 ± 0.04638
pull
Entries 90
Mean −1246
Std Dev 0

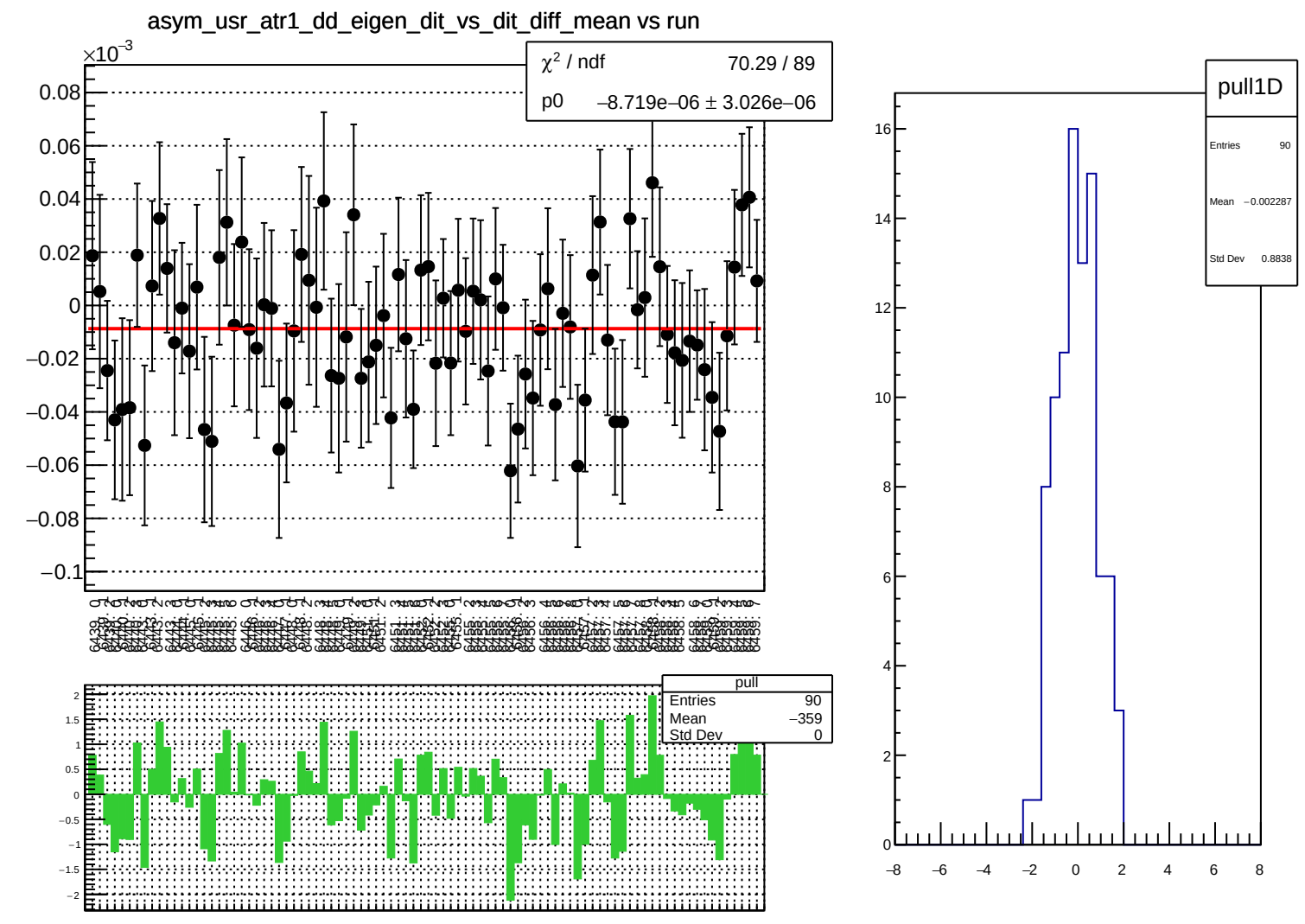

pull1D
Entries 90
Mean 0.003011
Std Dev 0.9531

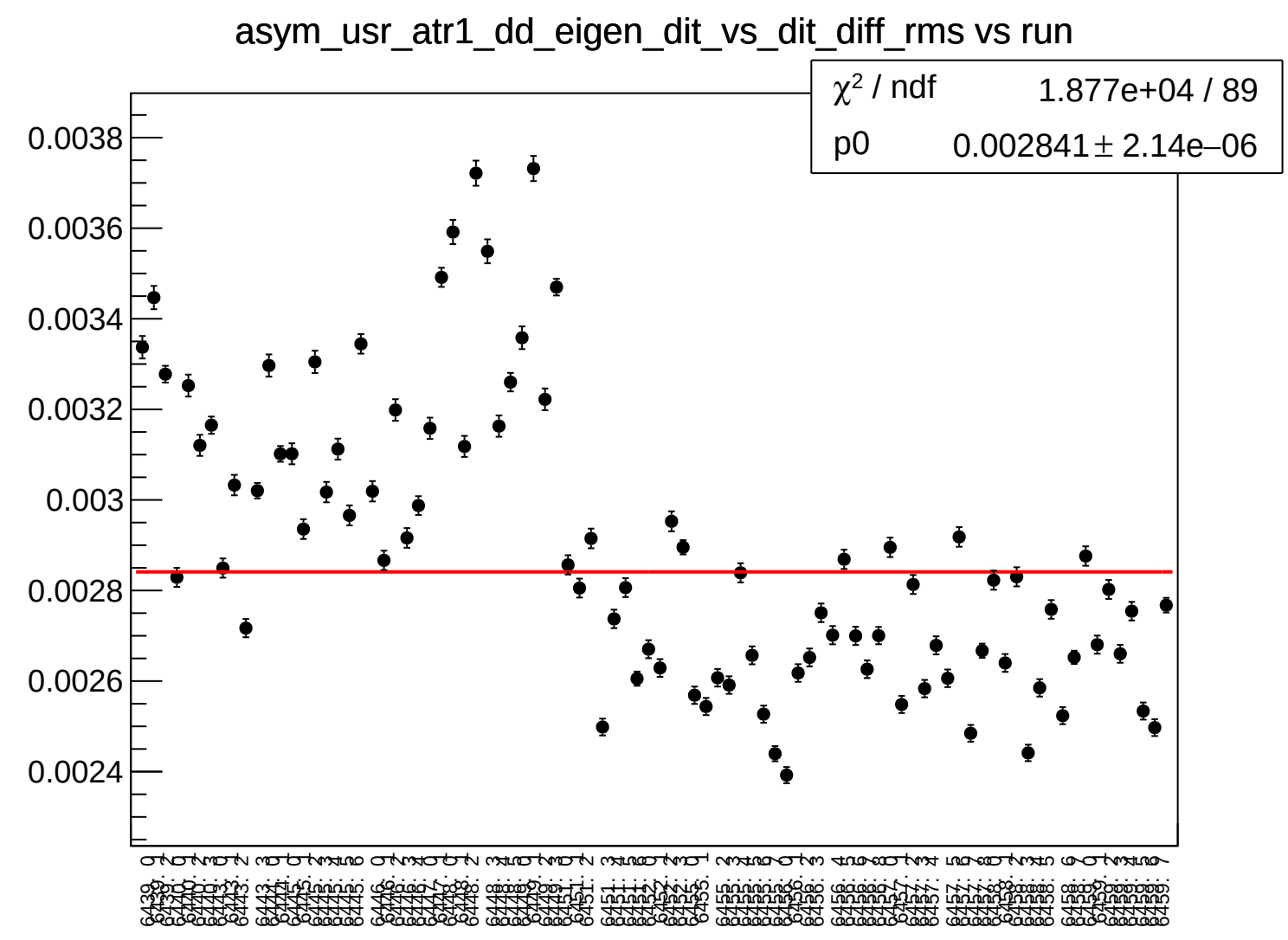

asym_usr_atr1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.498e+05 / 89
p0 41.89 ± 0.03279
90
80
70
60
50
40
30
20

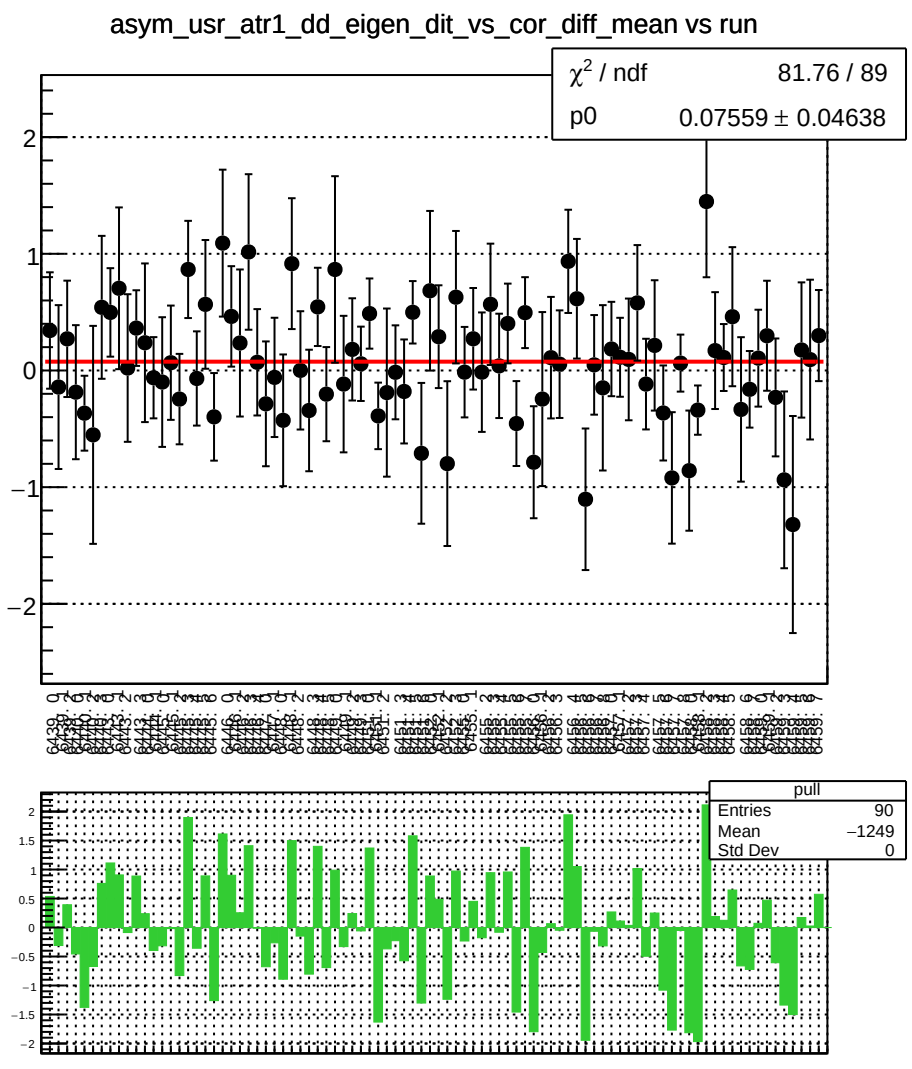

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.76 / 89
p0 0.07559 ± 0.04638
pull
Entries 90
Mean −1246
Std Dev 0

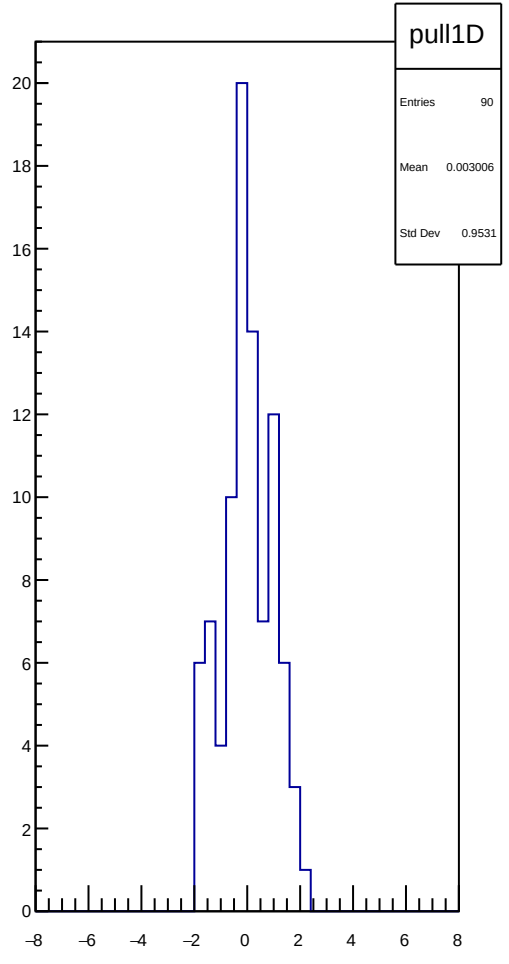

pull1D
Entries 90
Mean 0.003011
Std Dev 0.9531

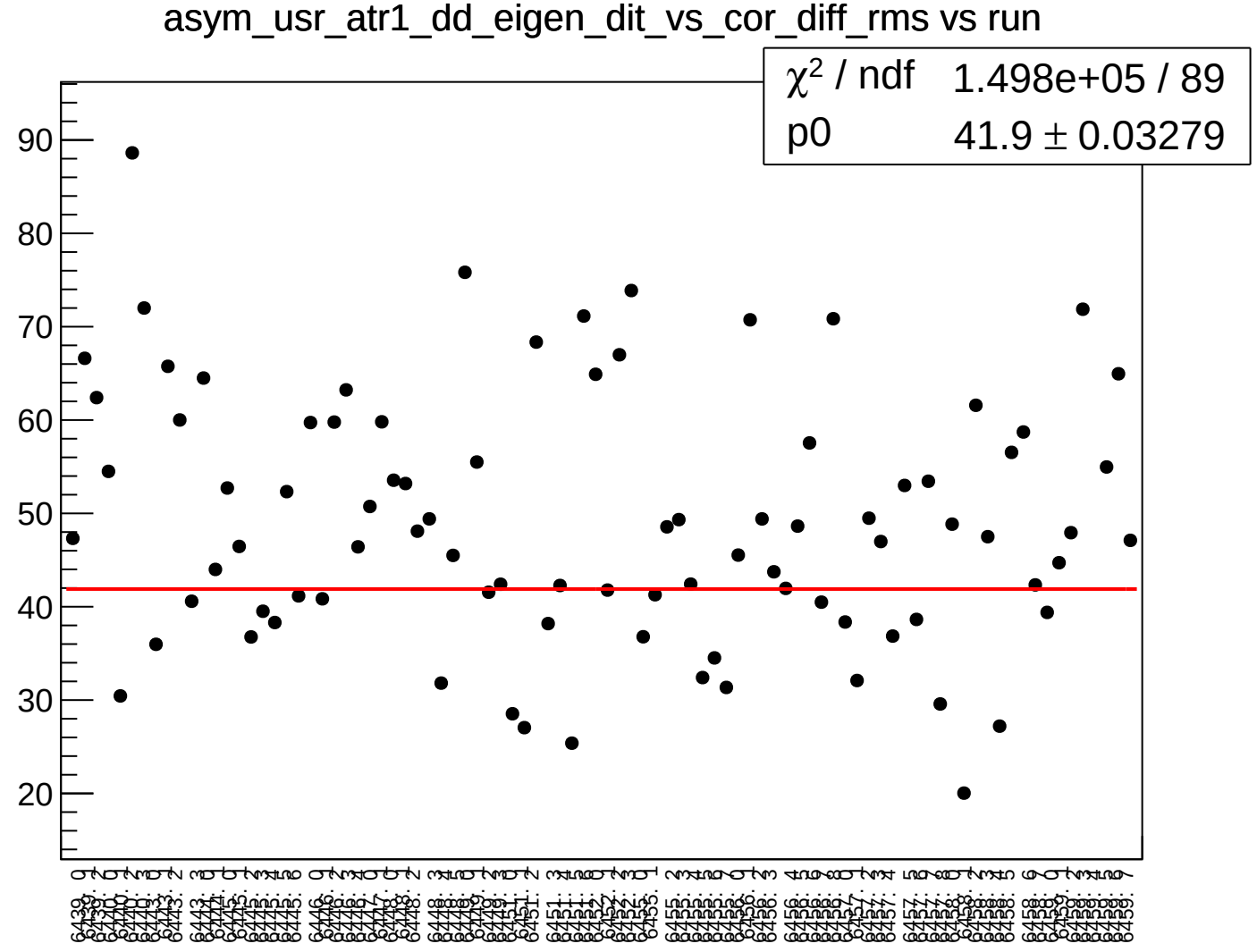

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.498e+05 / 89
p0 41.89 ± 0.03279
90
80
70
60
50
40
30
20

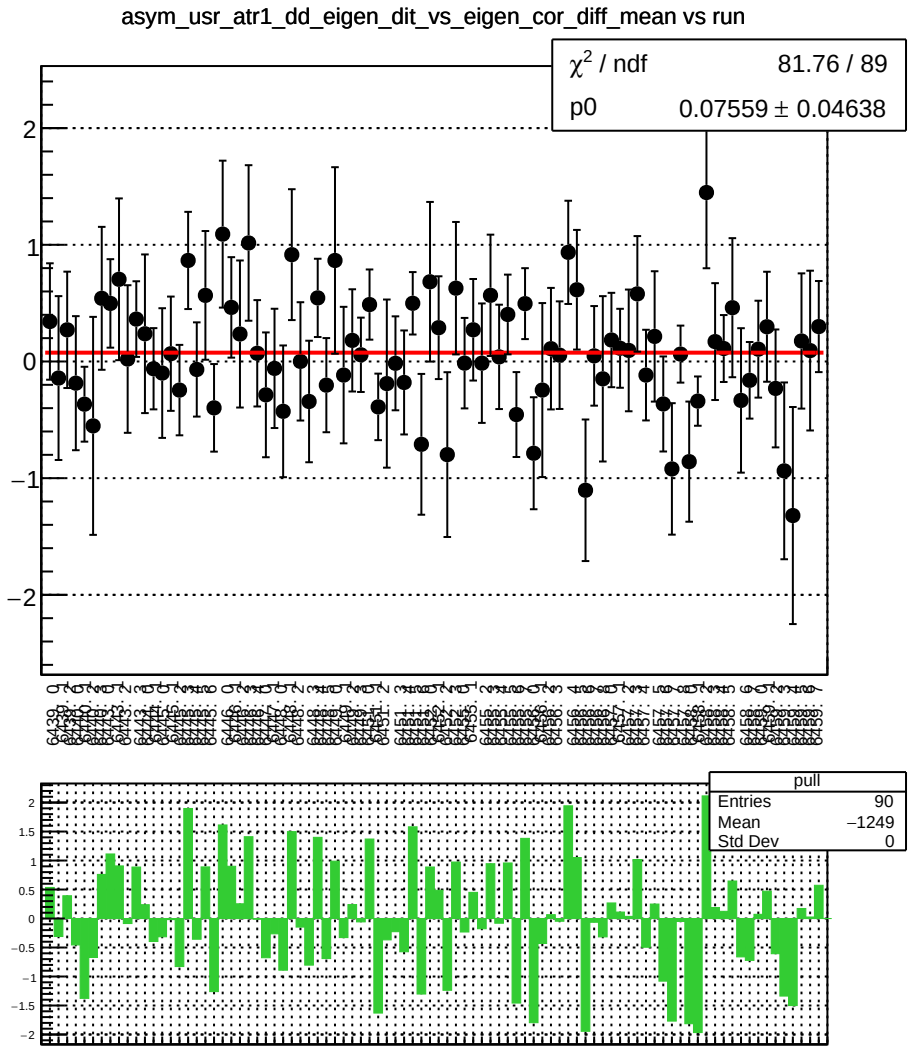

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 70.29 / 89
p0 −8.719e−06 ± 3.026e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
pull
Entries 90
Mean −359
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 90
Mean −0.002287
Std Dev 0.8838
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

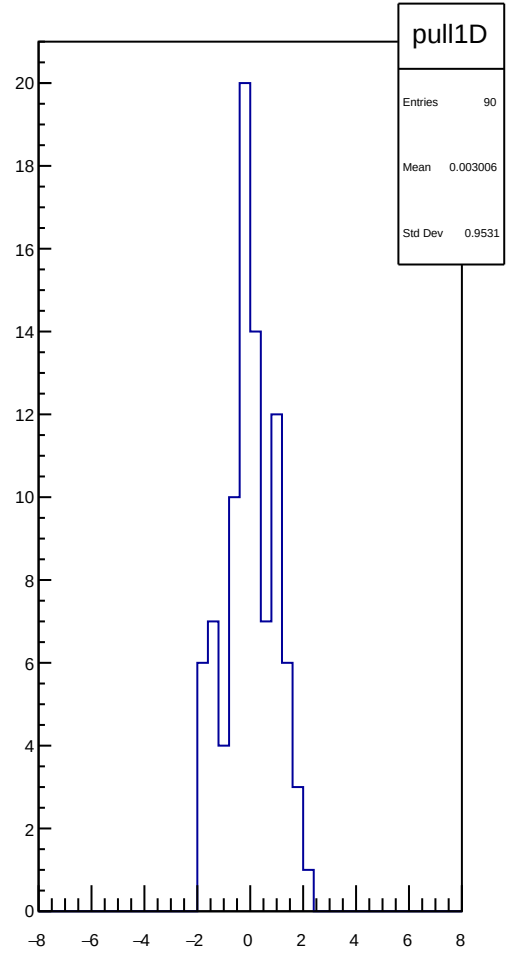

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.877e+04 / 89
p0 0.002841 ± 2.14e–06
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024

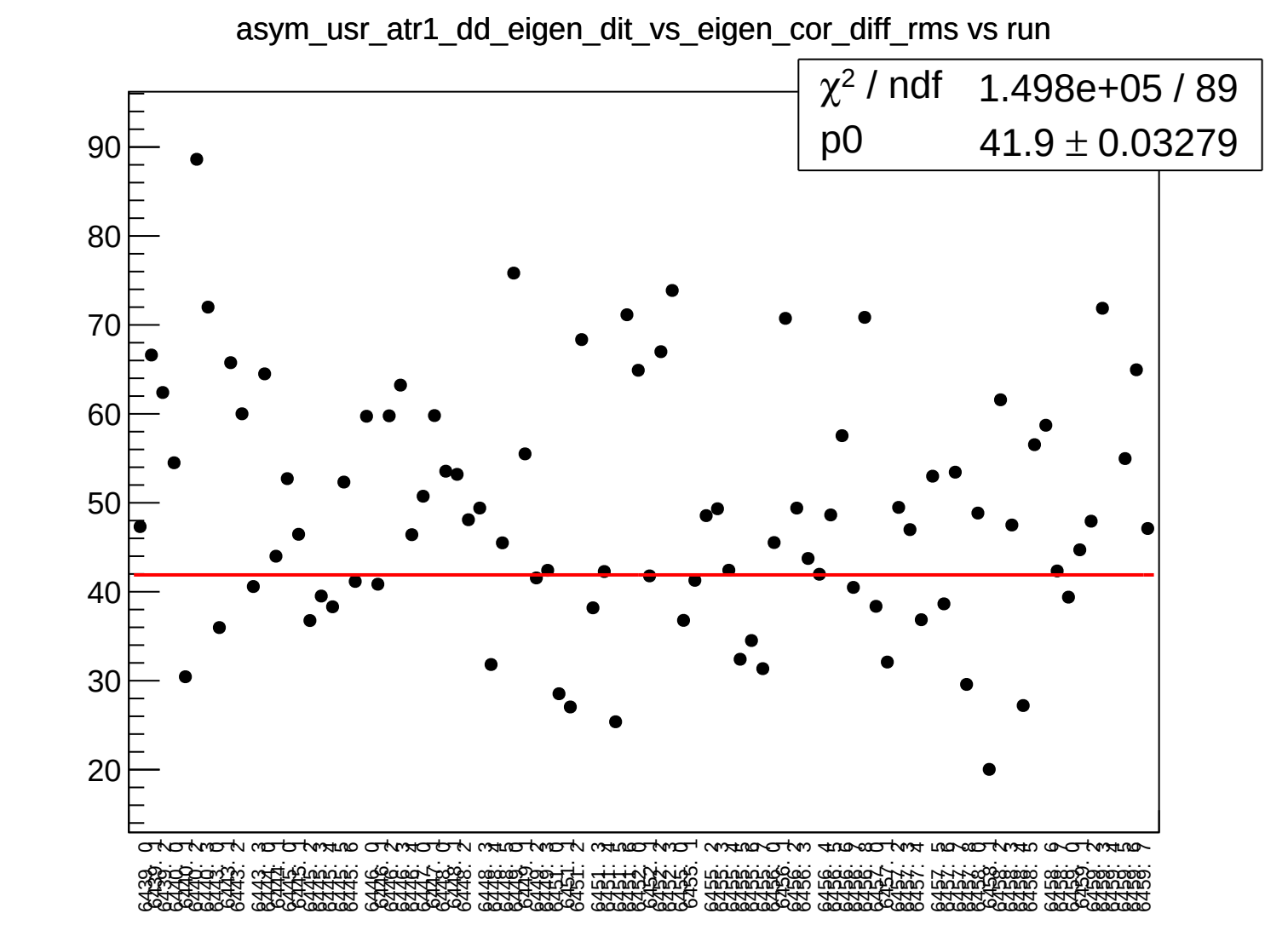

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.76 / 89
p0 0.07559 ± 0.04638
pull
Entries 90
Mean −1249
Std Dev 0

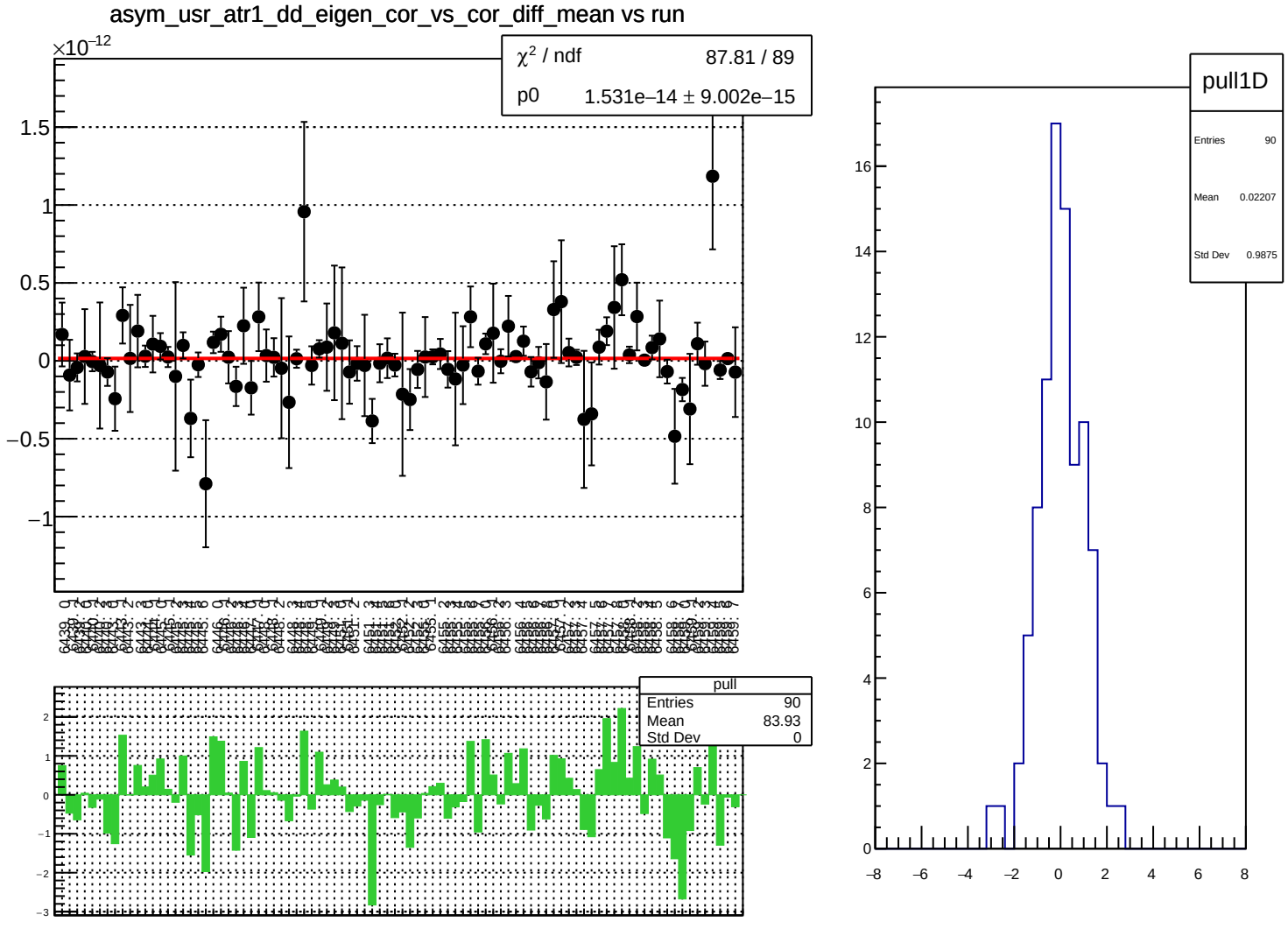

pull1D
Entries 90
Mean 0.003006
Std Dev 0.9531

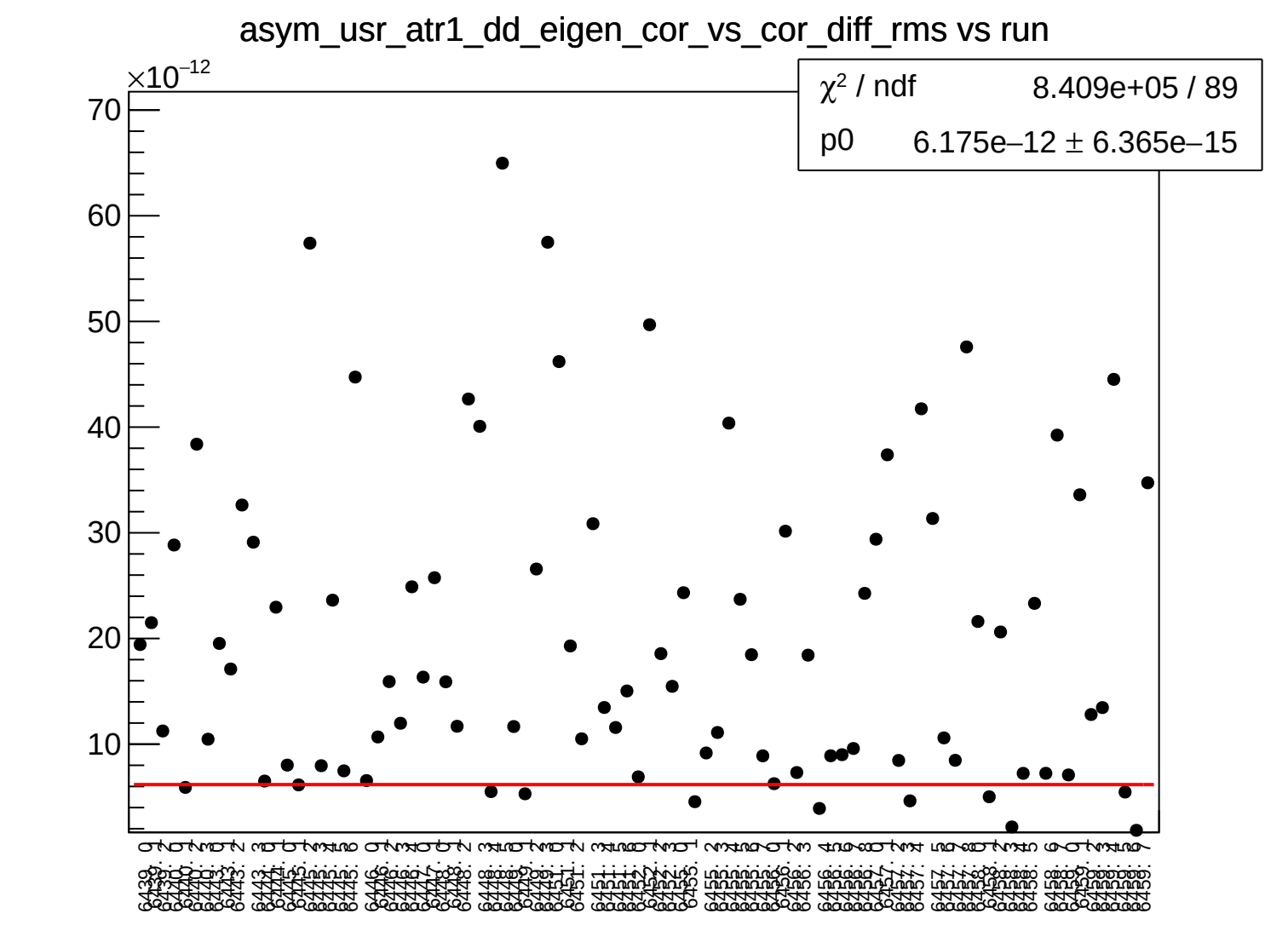

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.498e+05 / 89
p0 41.9 ± 0.03279
90
80
70
60
50
40
30
20

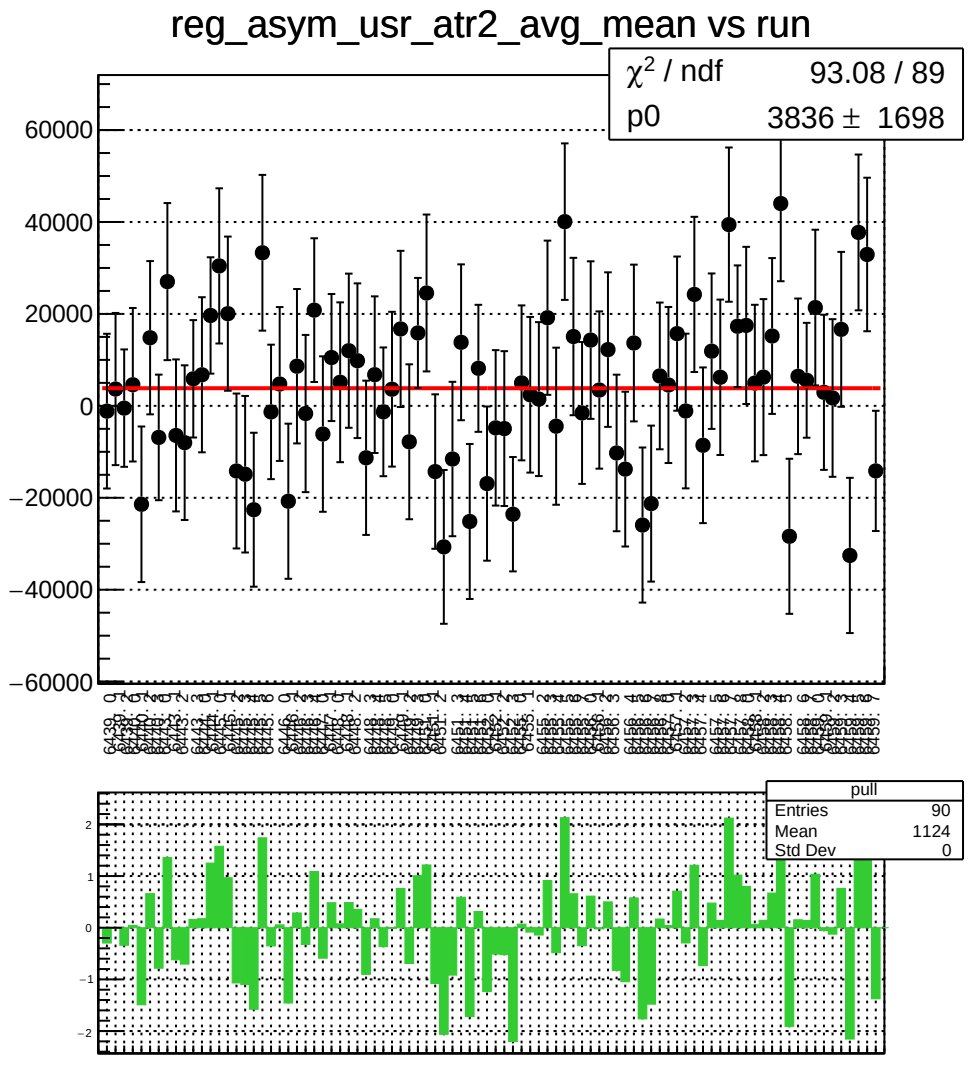

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.76 / 89
p0 0.07559 ± 0.04638
pull
Entries 90
Mean −1249
Std Dev 0

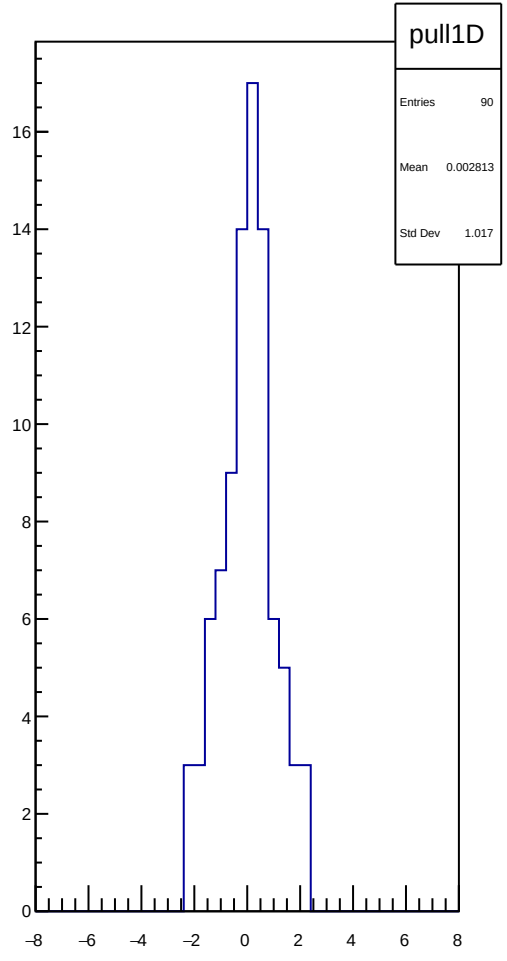

pull1D
Entries 90
Mean 0.003006
Std Dev 0.9531

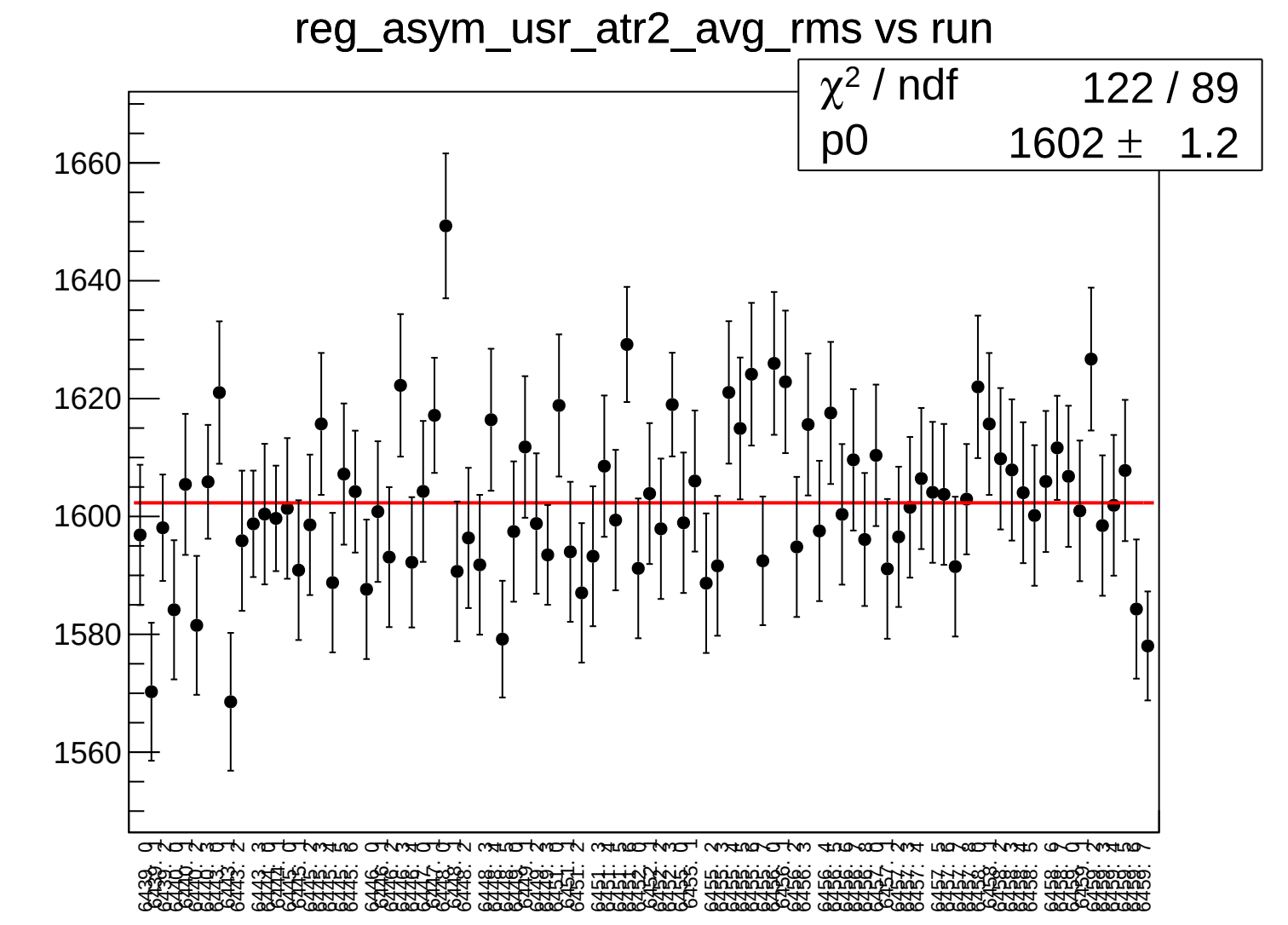

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.498e+05 / 89
p0 41.9 ± 0.03279
90
80
70
60
50
40
30
20

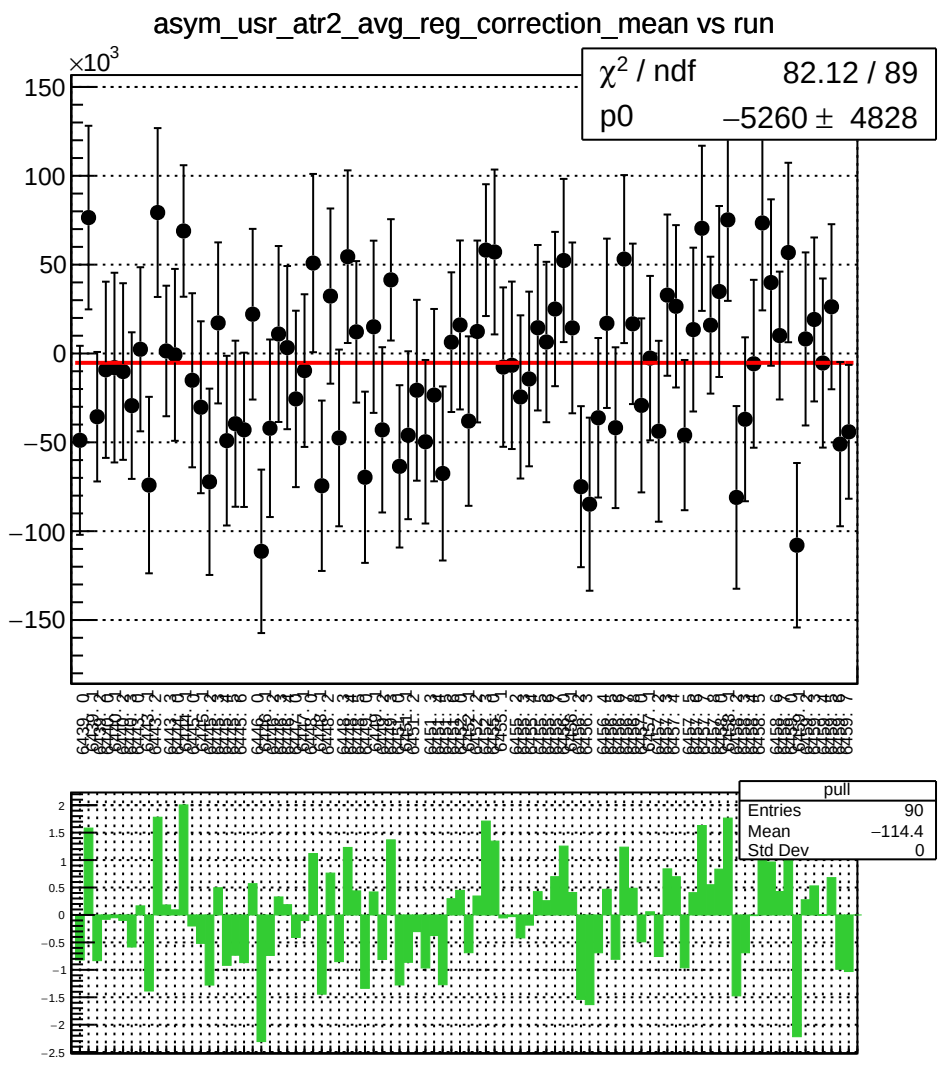

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.81 / 89
p0 1.531e−14 ± 9.002e−15
1.5
1
0.5
0
−0.5
−1
pull
Entries 90
Mean 83.93
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 90
Mean 0.02207
Std Dev 0.9875
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

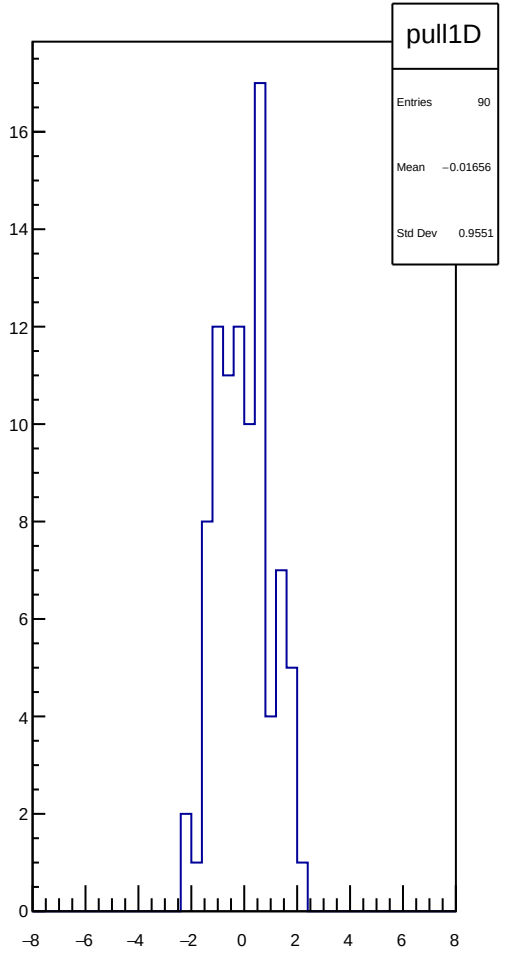

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
70
60
50
40
30
20
10
χ² / ndf 8.409e+05 / 89
p0 6.175e−12 ± 6.365e−15

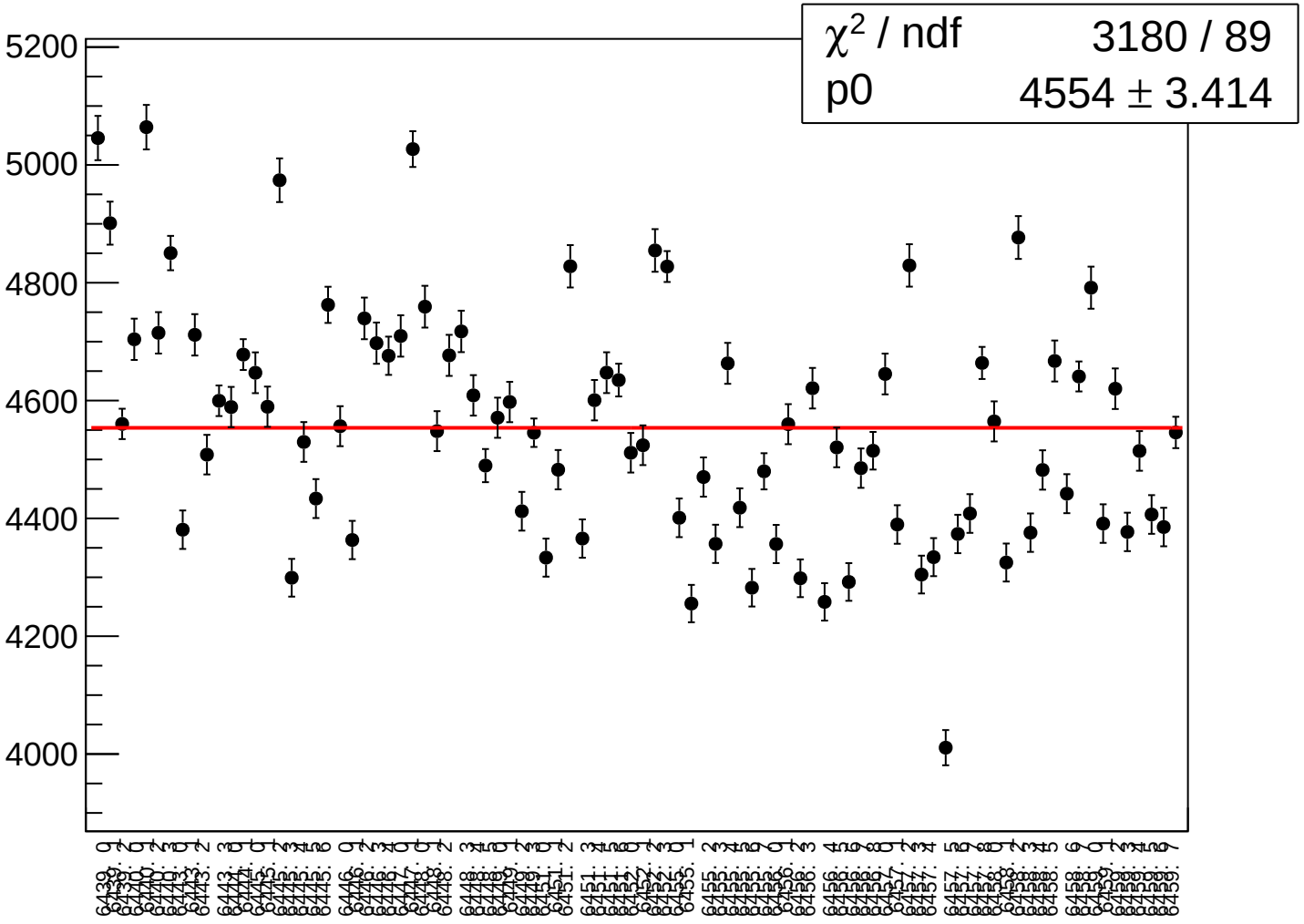

reg_asym_usr_atr2_avg_mean vs run
χ² / ndf 93.08 / 89
p0 3836 ± 1698
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 1124
Std Dev 0
2
1
0
−1
−2

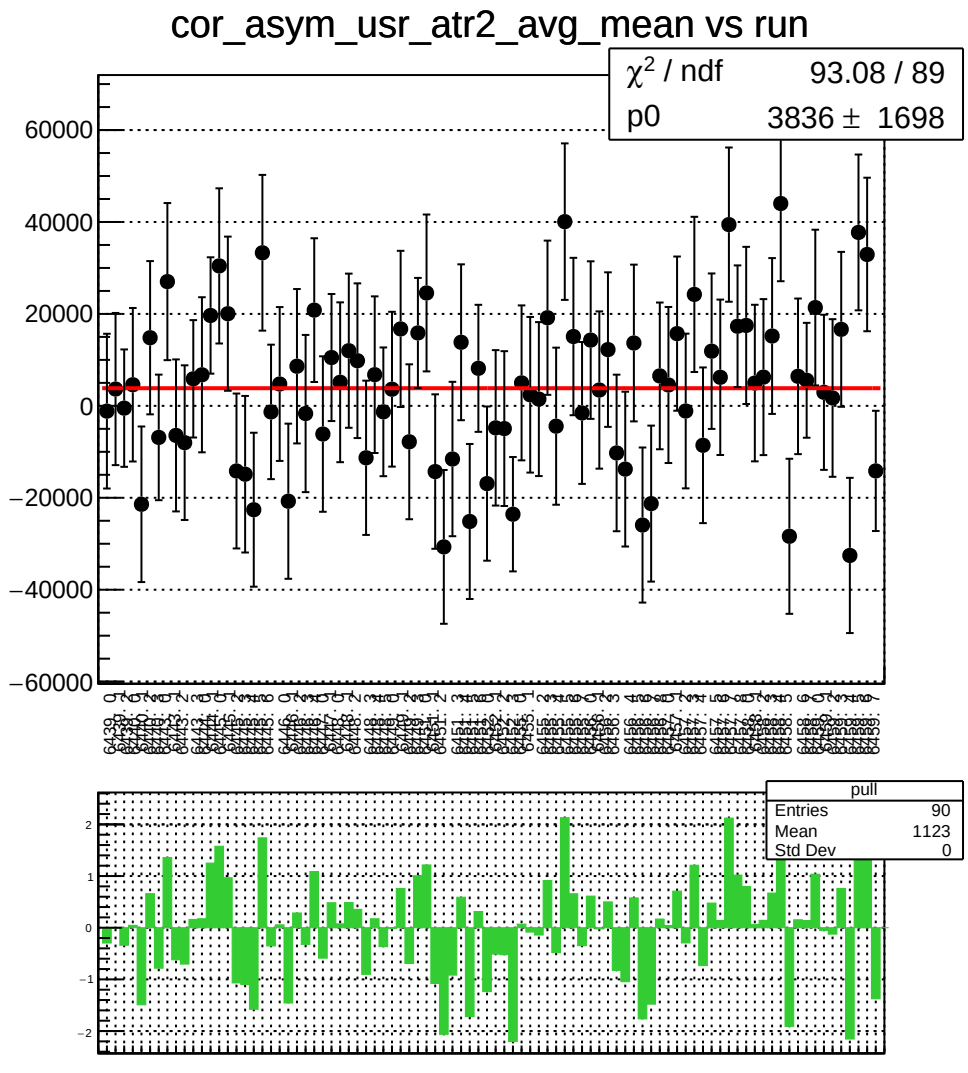

pull1D
Entries 90
Mean 0.002813
Std Dev 1.017
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

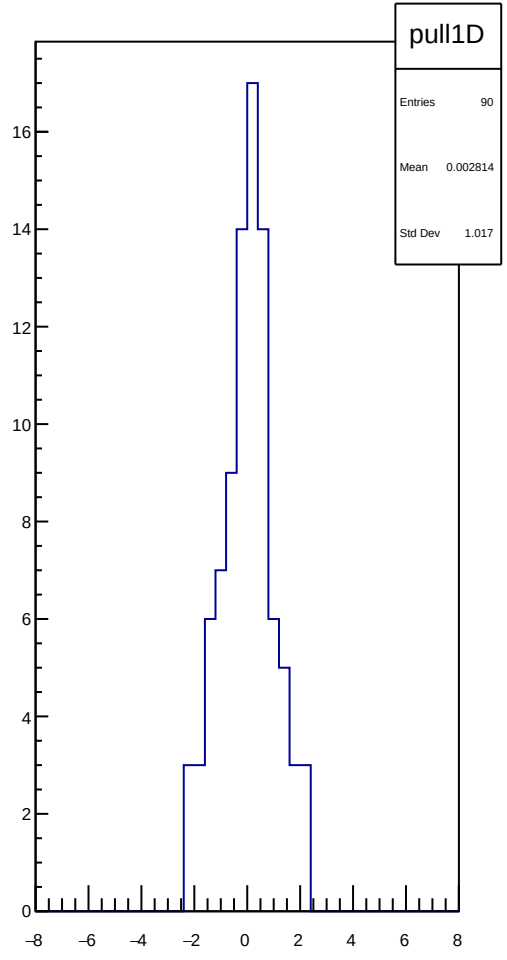

reg_asym_usr_atr2_avg_rms vs run
χ² / ndf 122 / 89
p0 1602 ± 1.2
1660
1640
1620
1600
1580
1560

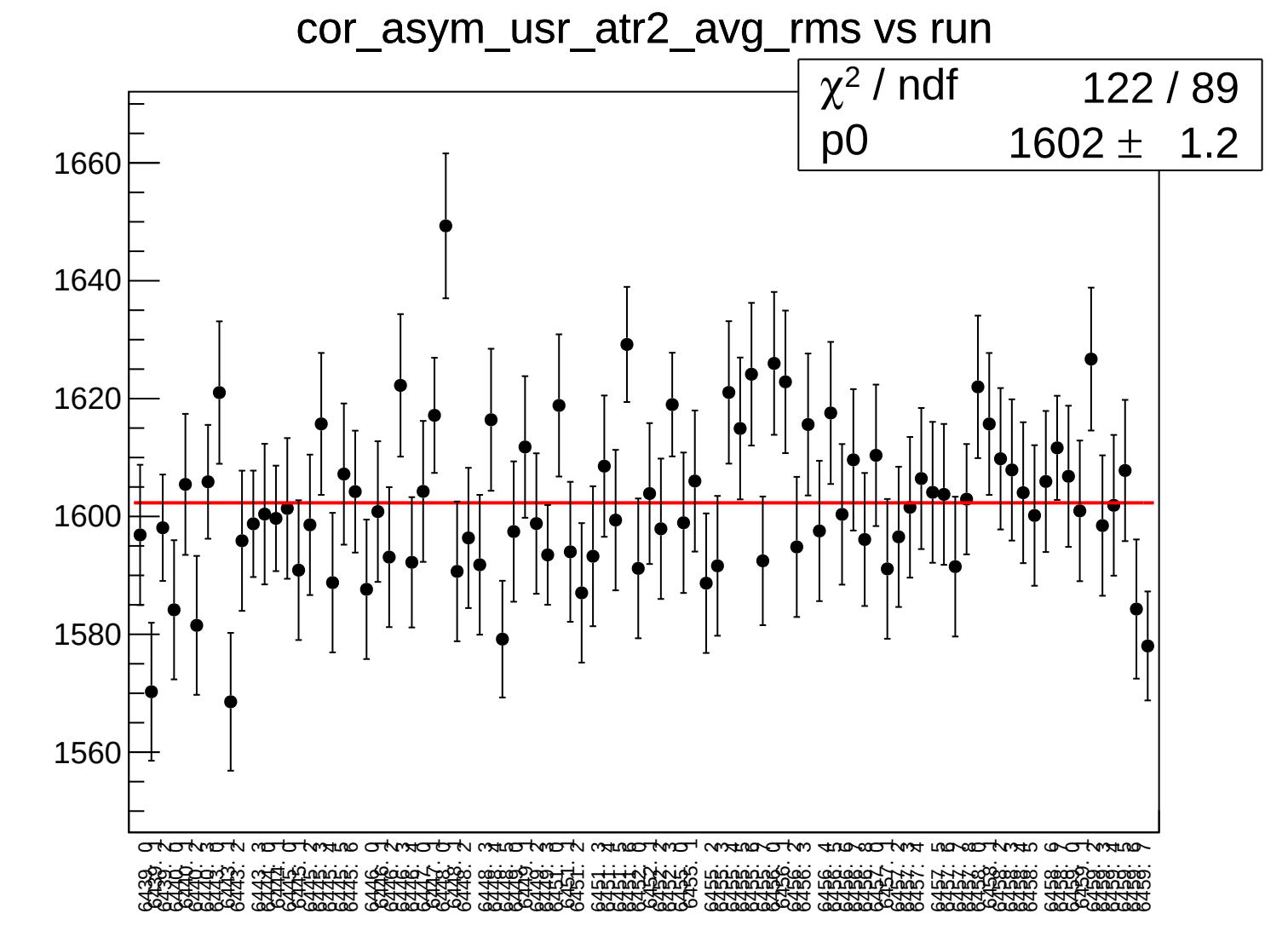

asym_usr_atr2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 82.12 / 89
p0 −5260 ± 4828
150
100
50
0
−50
−100
−150
pull
Entries 90
Mean −114.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

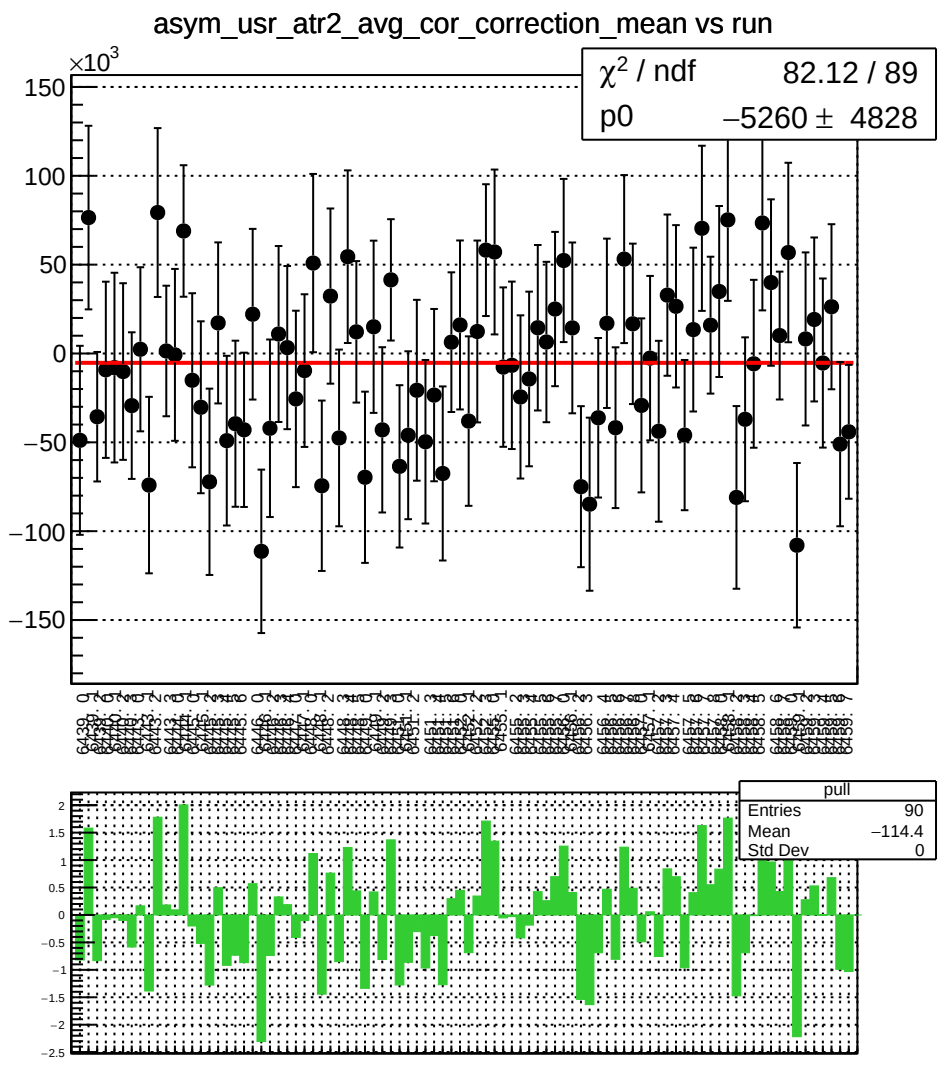

pull1D
Entries 90
Mean −0.01656
Std Dev 0.9551
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

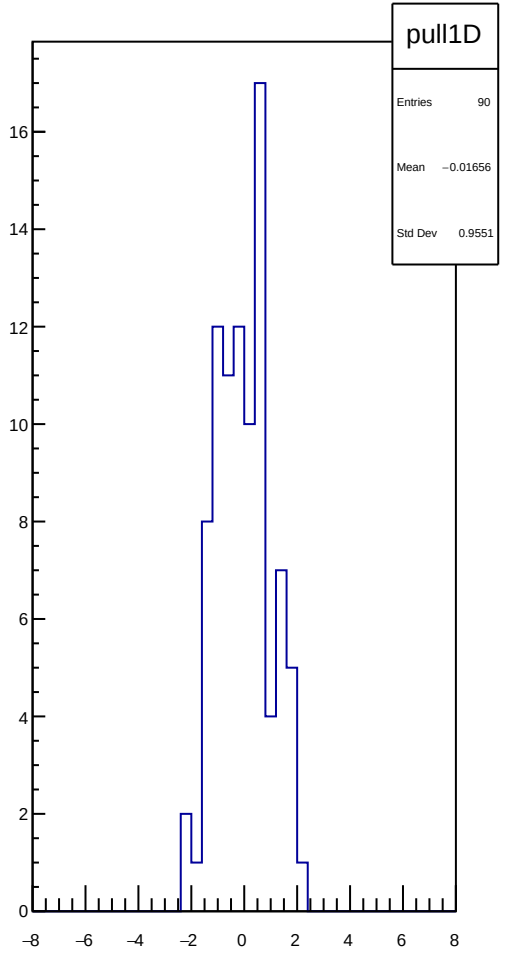

asym_usr_atr2_avg_reg_correction_rms vs run
χ² / ndf 3180 / 89
p0 4554 ± 3.414
5200
5000
4800
4600
4400
4200
4000

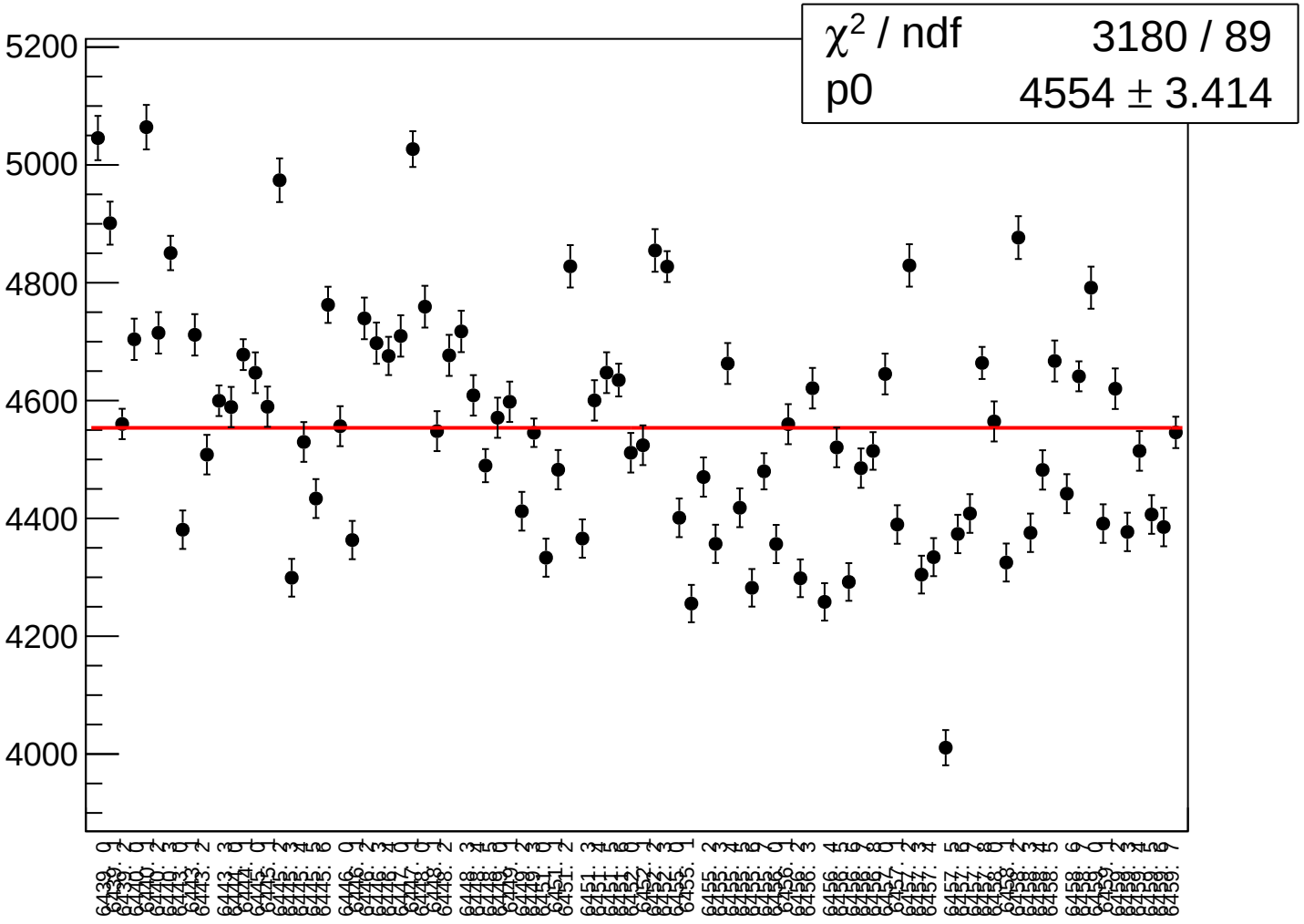

cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 93.08 / 89
p0 3836 ± 1698
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 1123
Std Dev 0
2
1
0
−1
−2

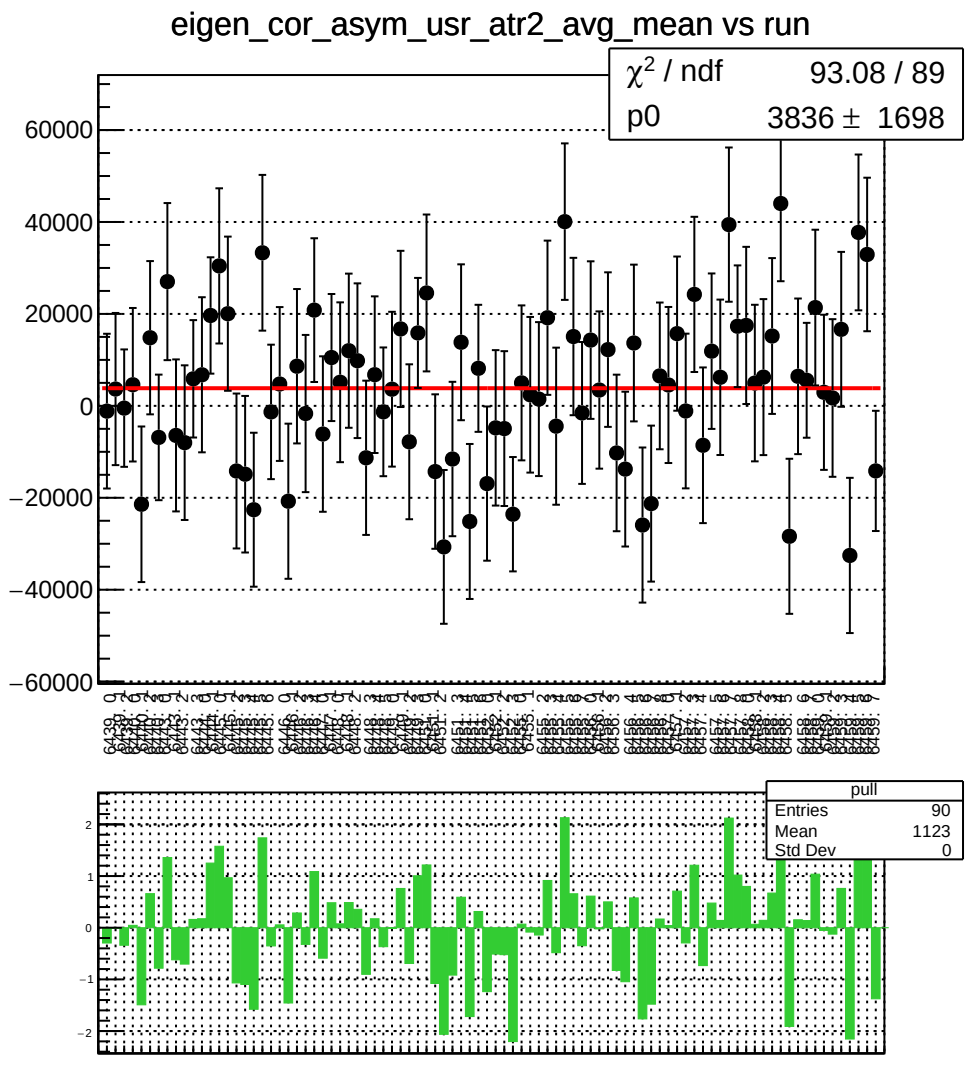

pull1D
Entries 90
Mean 0.002814
Std Dev 1.017
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

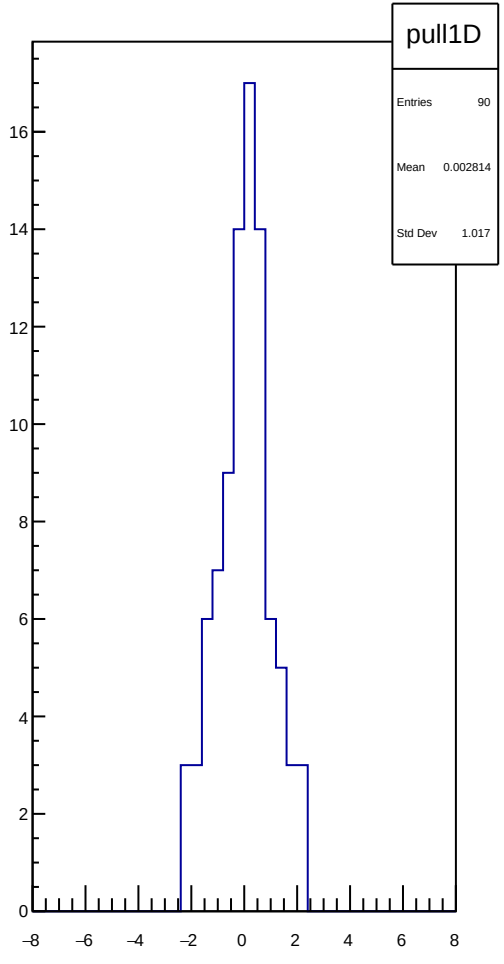

cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 122 / 89
p0 1602 ± 1.2
1660
1640
1620
1600
1580
1560

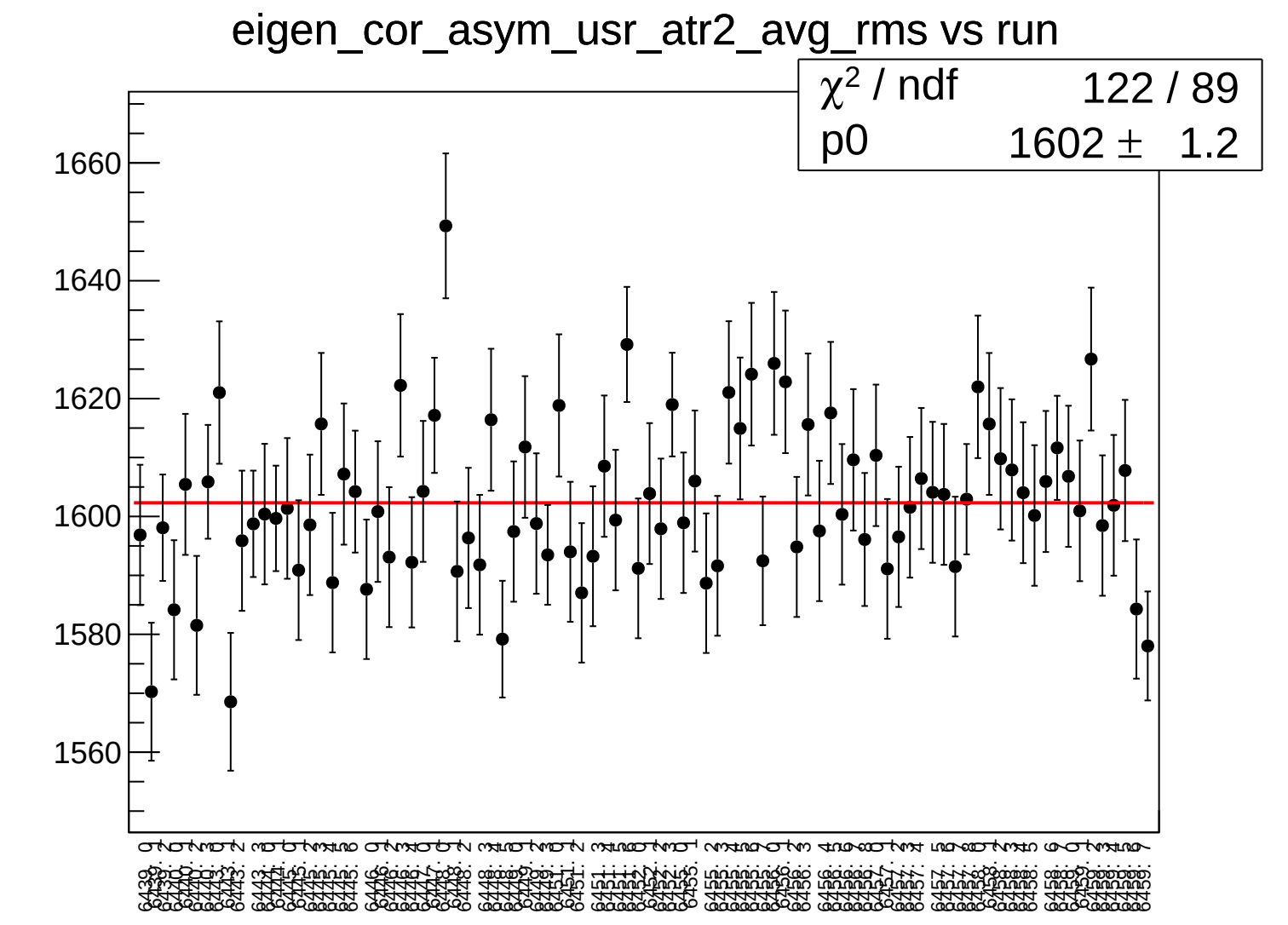

asym_usr_atr2_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 82.12 / 89
p0 −5260 ± 4828
150
100
50
0
−50
−100
−150
pull
Entries 90
Mean −114.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

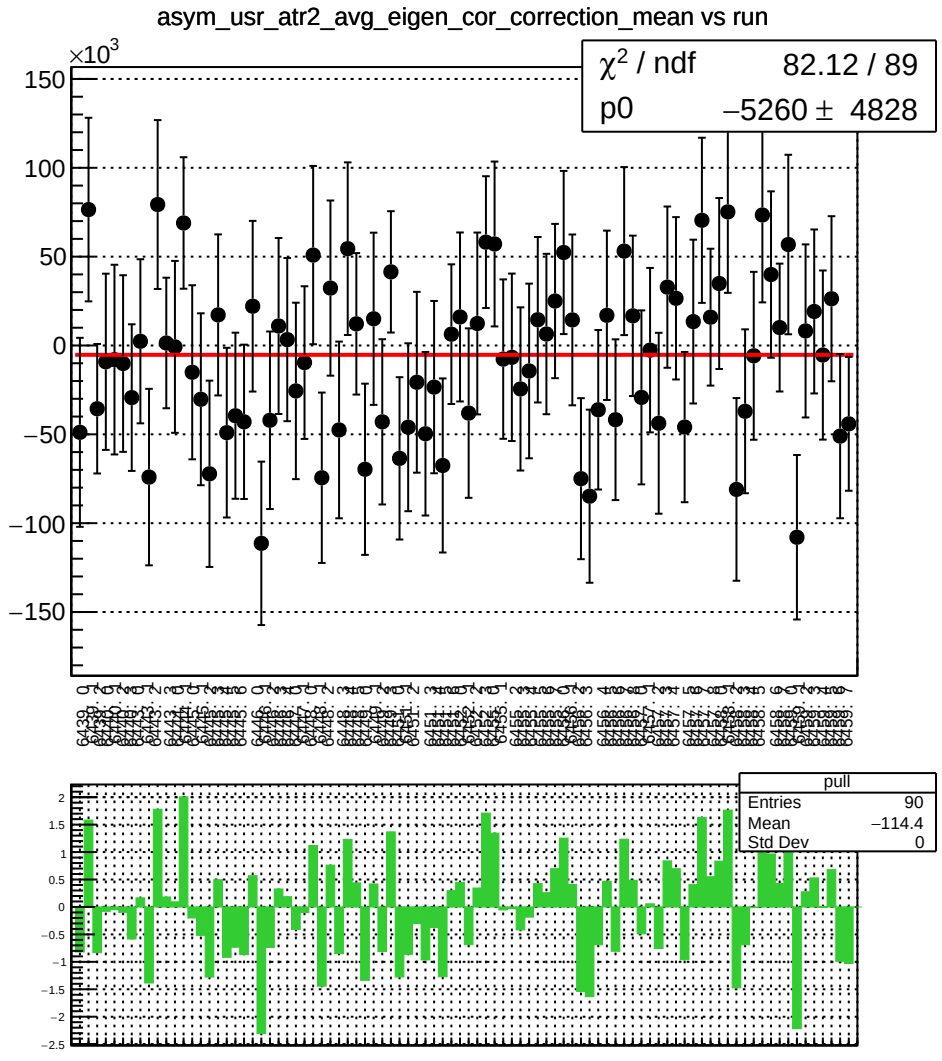

pull1D
Entries 90
Mean −0.01656
Std Dev 0.9551
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

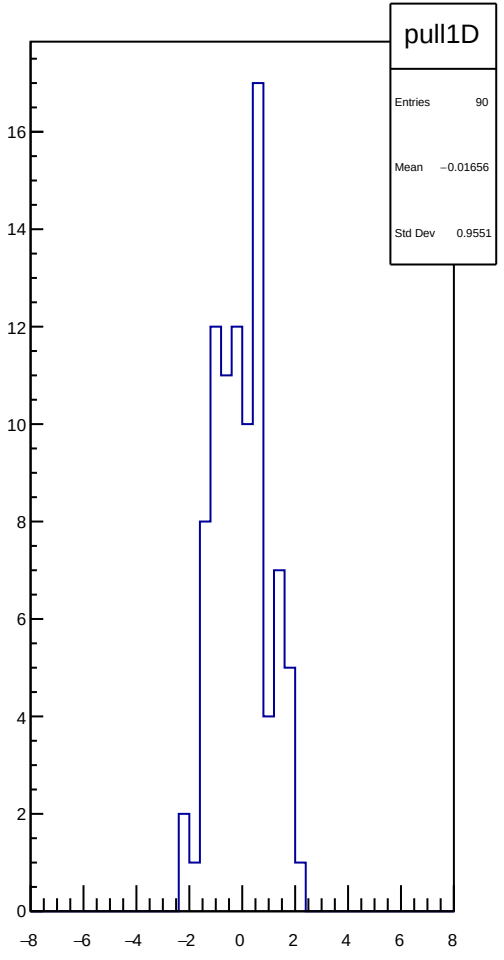

asym_usr_atr2_avg_cor_correction_rms vs run
χ² / ndf 3180 / 89
p0 4554 ± 3.414
5200
5000
4800
4600
4400
4200
4000

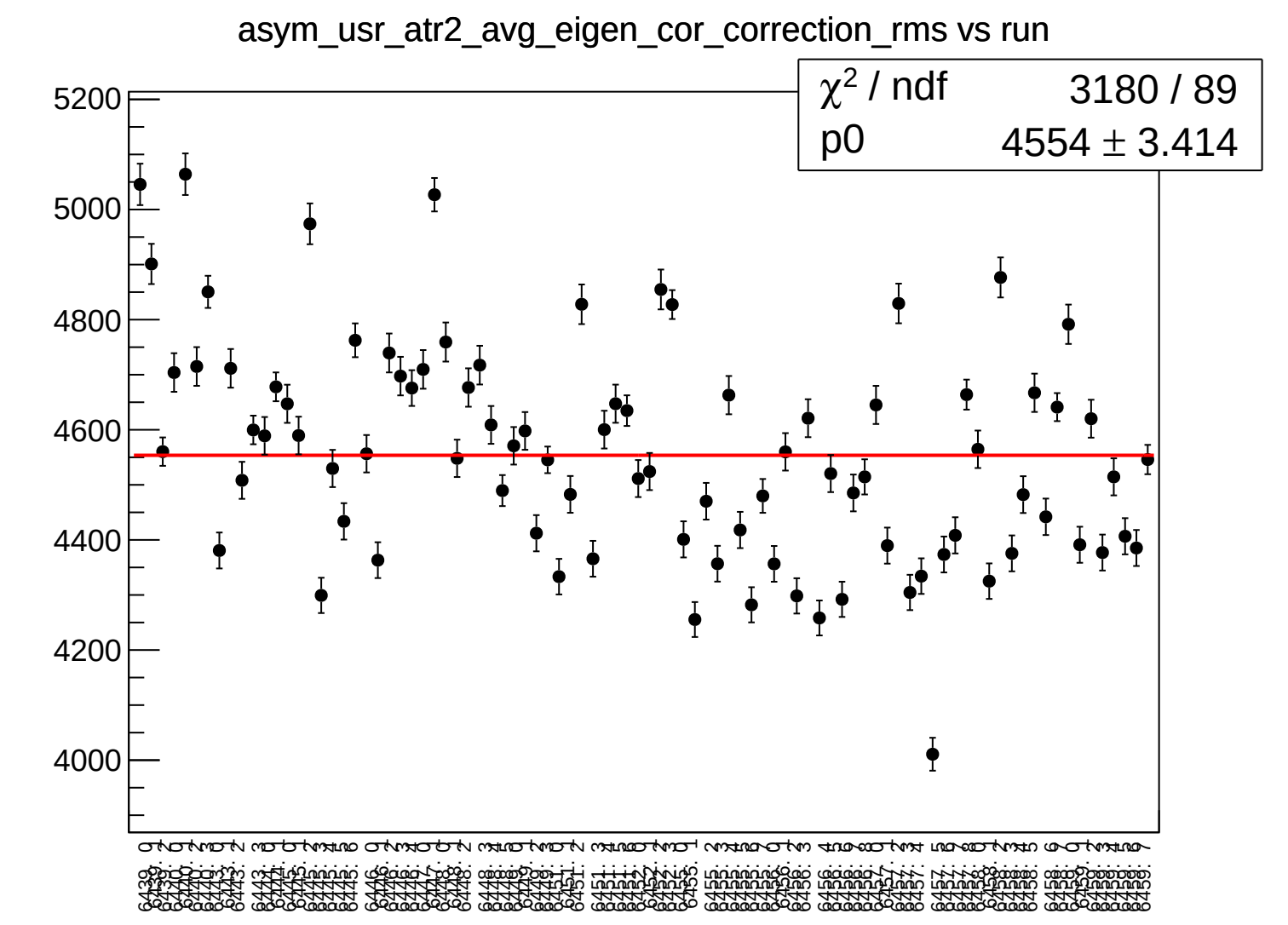

eigen_cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 93.08 / 89
p0 3836 ± 1698
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 1123
Std Dev 0
2
1
0
−1
−2

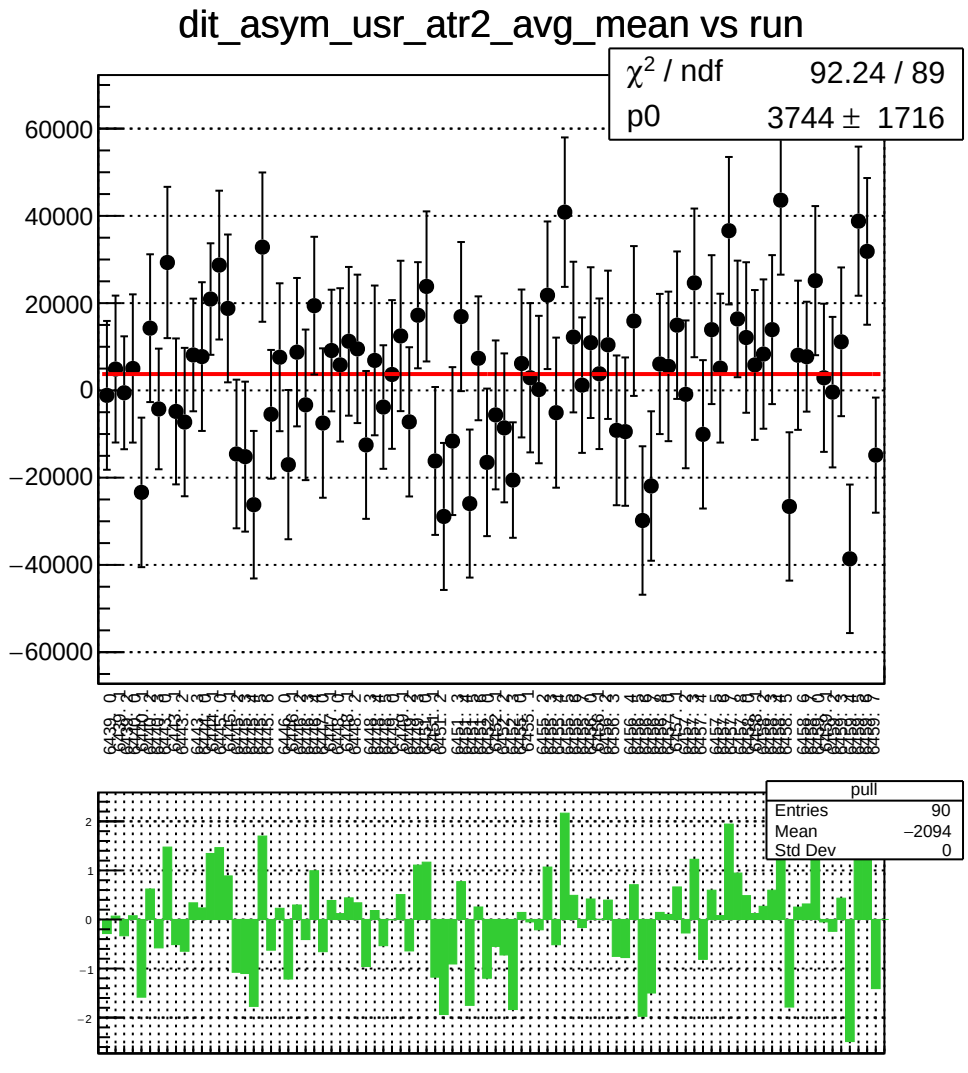

pull1D
Entries 90
Mean 0.002814
Std Dev 1.017
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

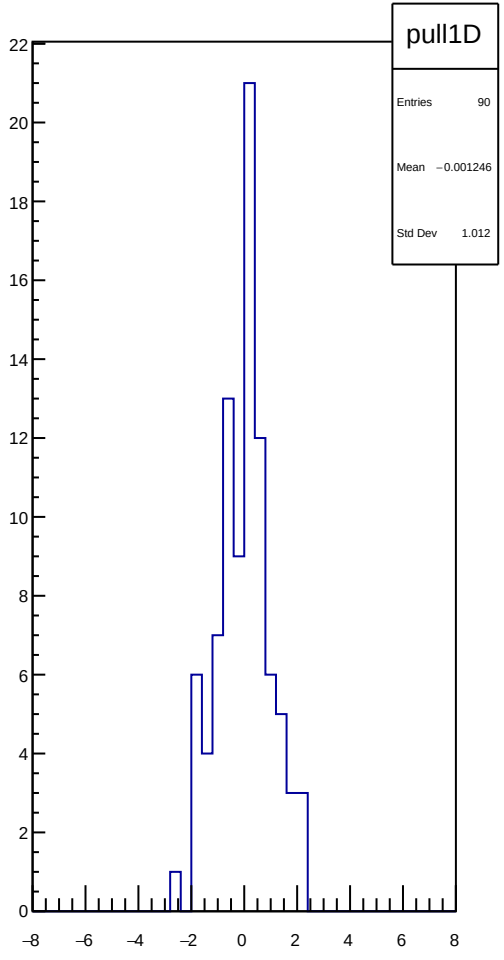

eigen_cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 122 / 89
p0 1602 ± 1.2
1660
1640
1620
1600
1580
1560

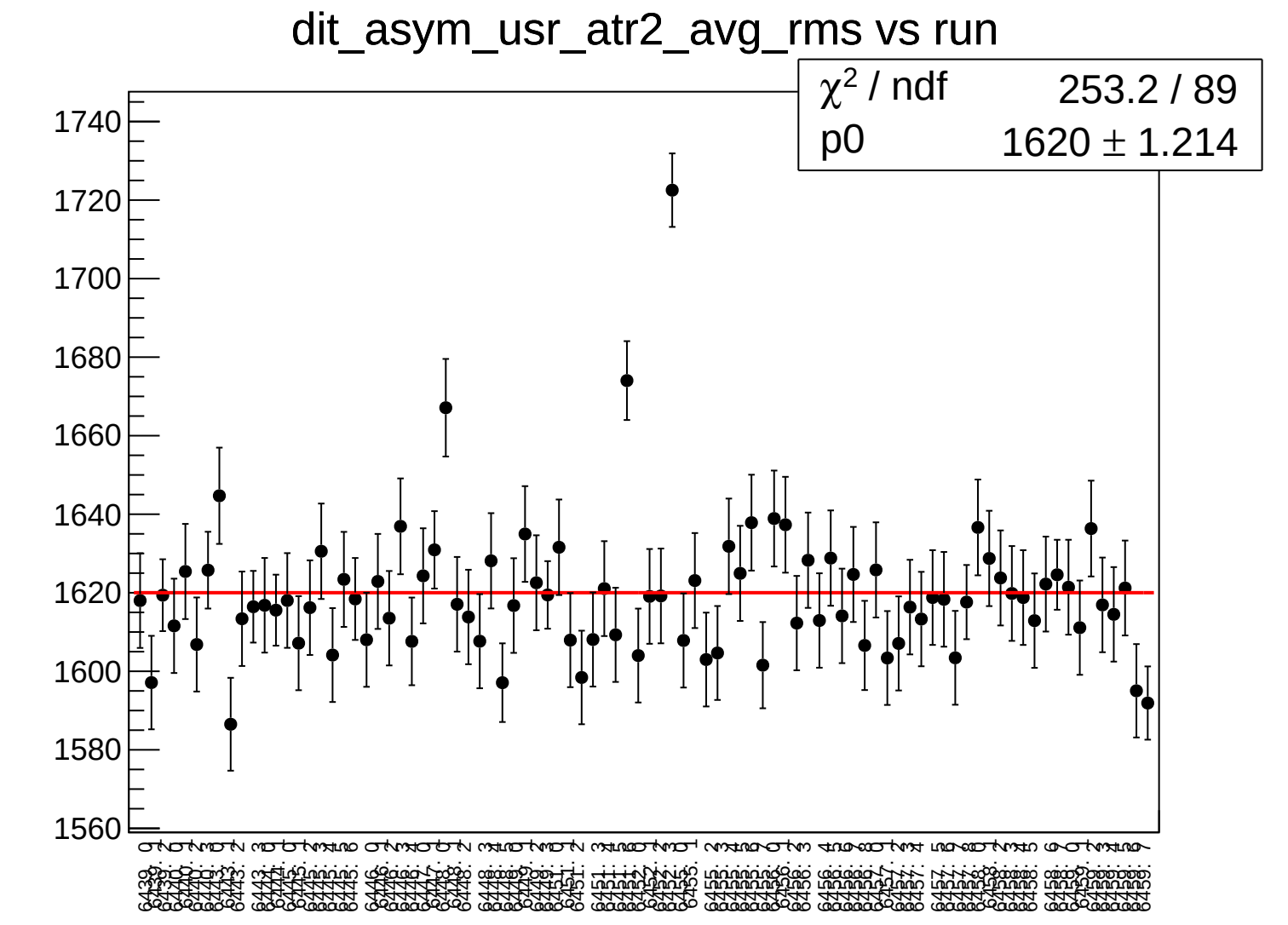

asym_usr_atr2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 82.12 / 89
p0 −5260 ± 4828
150
100
50
0
−50
−100
−150
pull
Entries 90
Mean −114.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

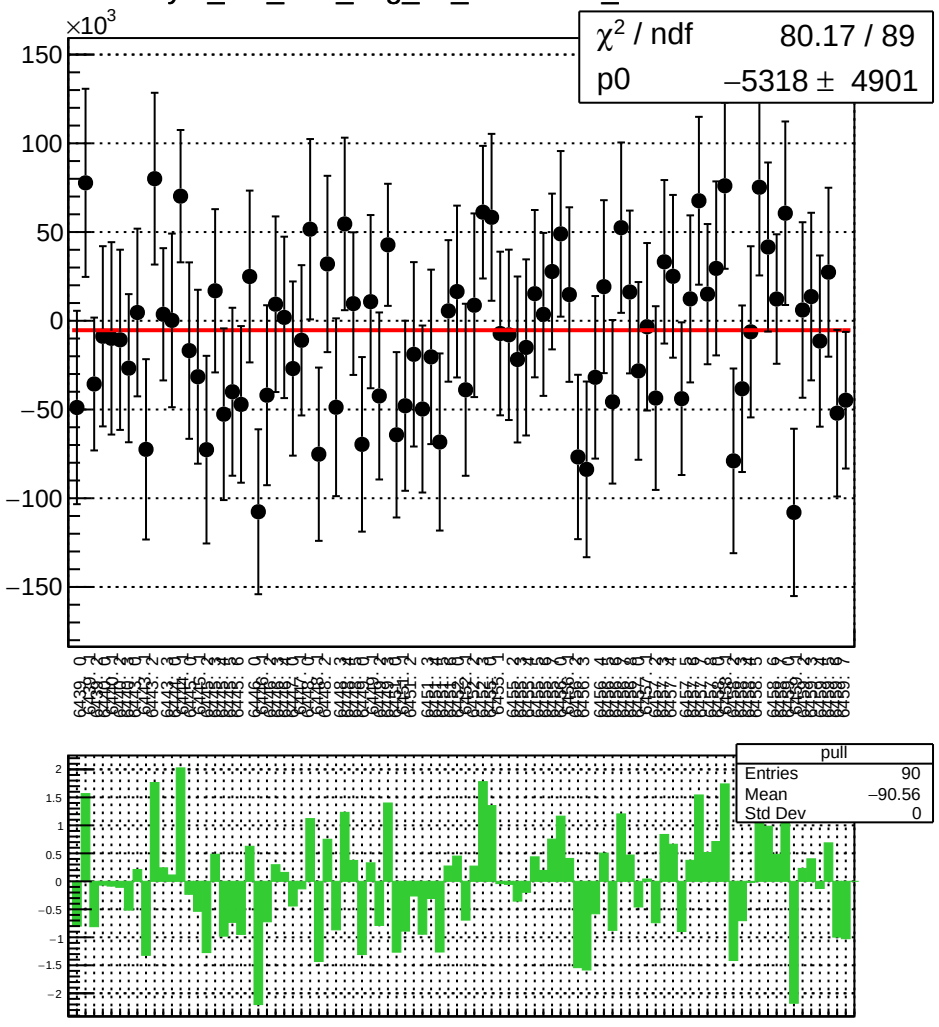

pull1D
Entries 90
Mean −0.01656
Std Dev 0.9551
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

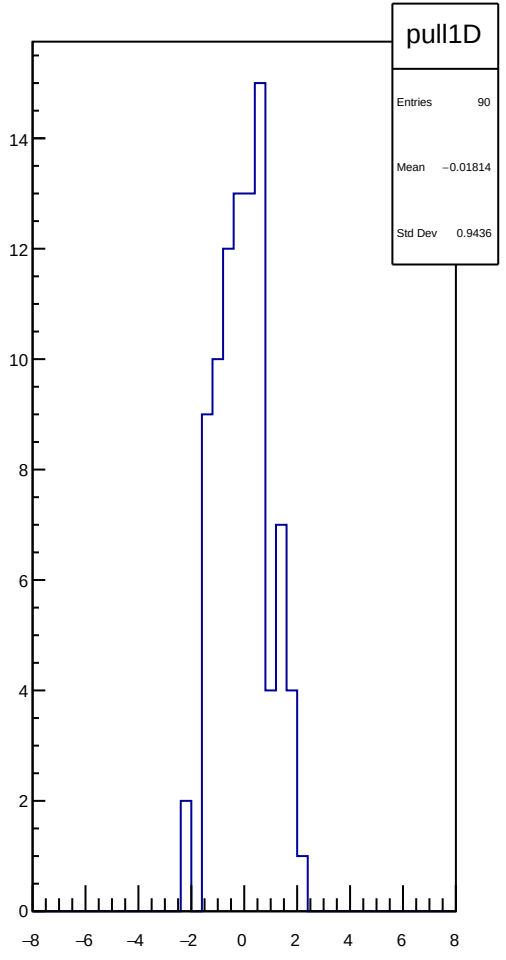

asym_usr_atr2_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 3180 / 89
p0 4554 ± 3.414
5200
5000
4800
4600
4400
4200
4000

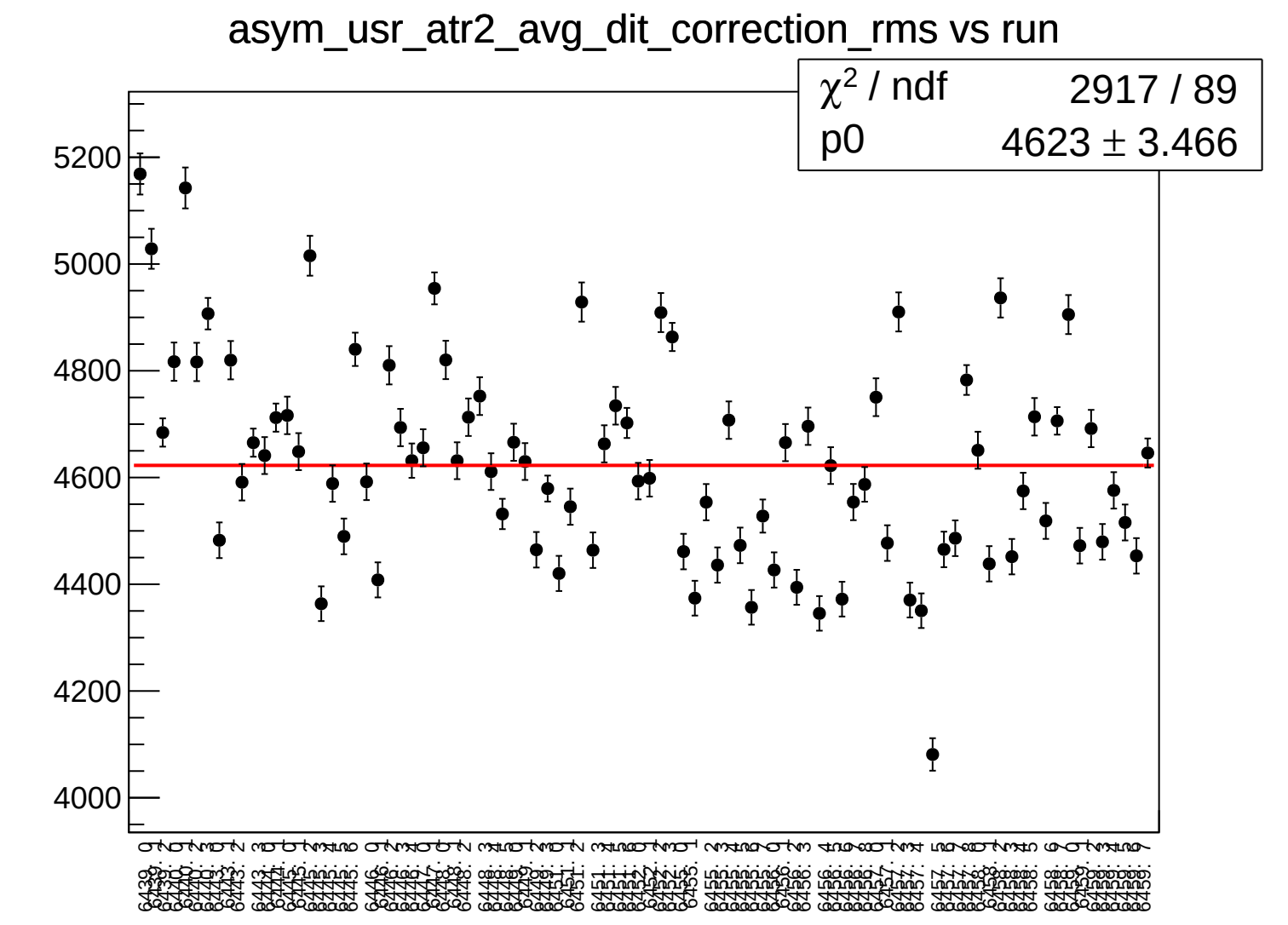

dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 92.24 / 89
p0 3744 ± 1716
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −2094
Std Dev 0
2
1
0
−1
−2

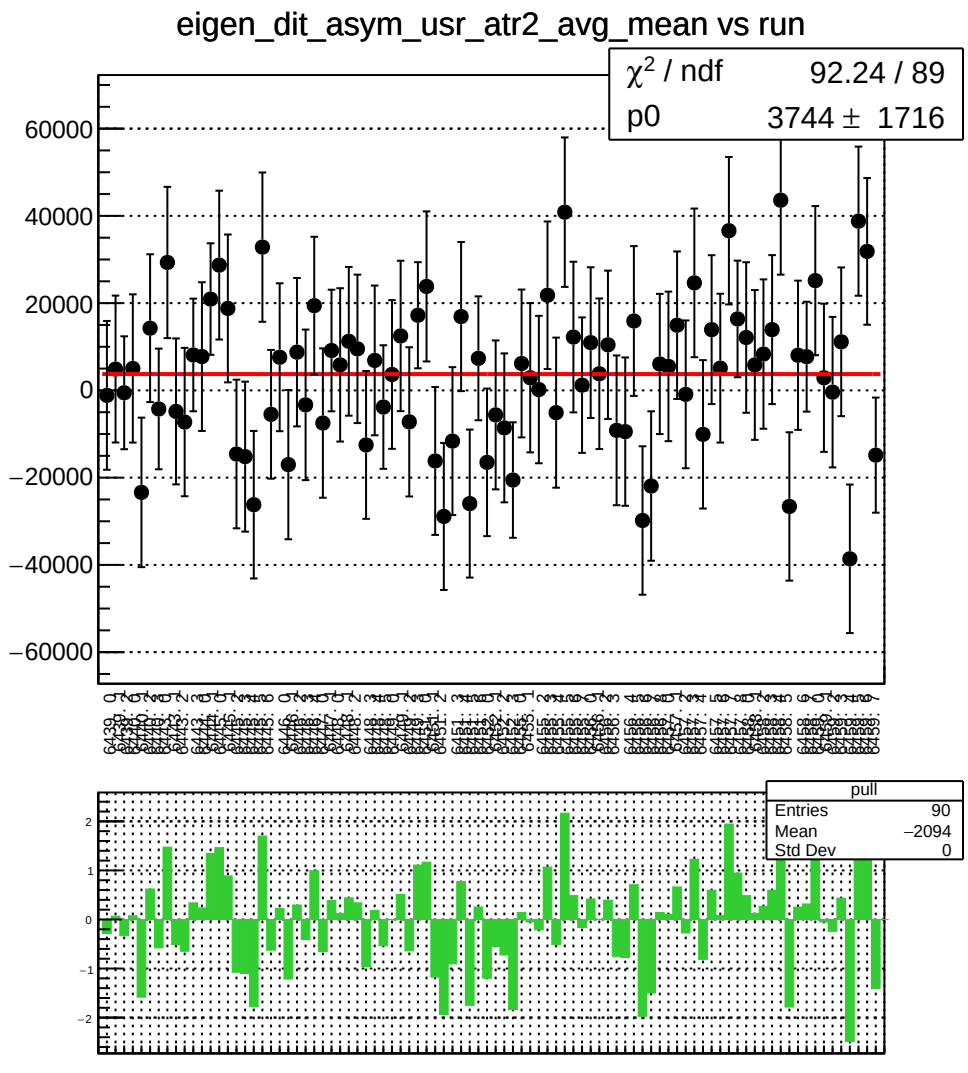

pull1D
Entries 90
Mean −0.001246
Std Dev 1.012
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

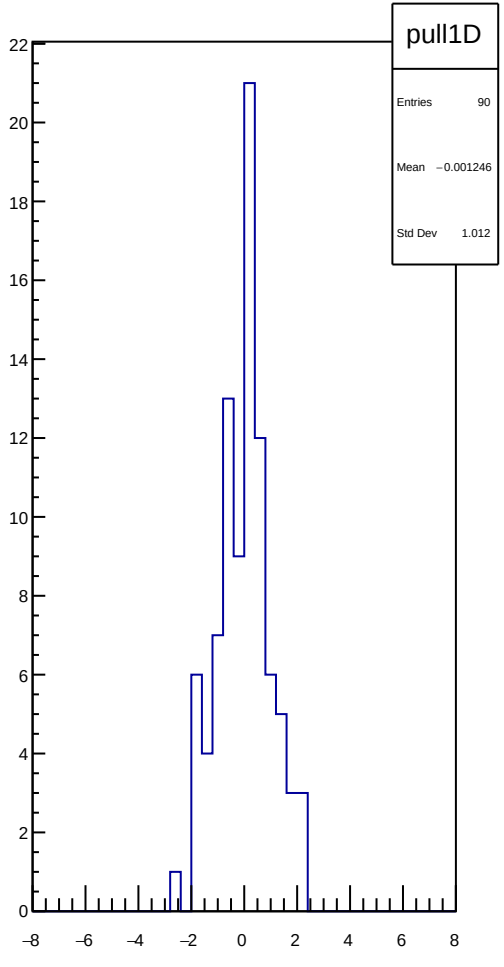

dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 253.2 / 89
p0 1620 ± 1.214
1740
1720
1700
1680
1660
1640
1620
1600
1580
1560

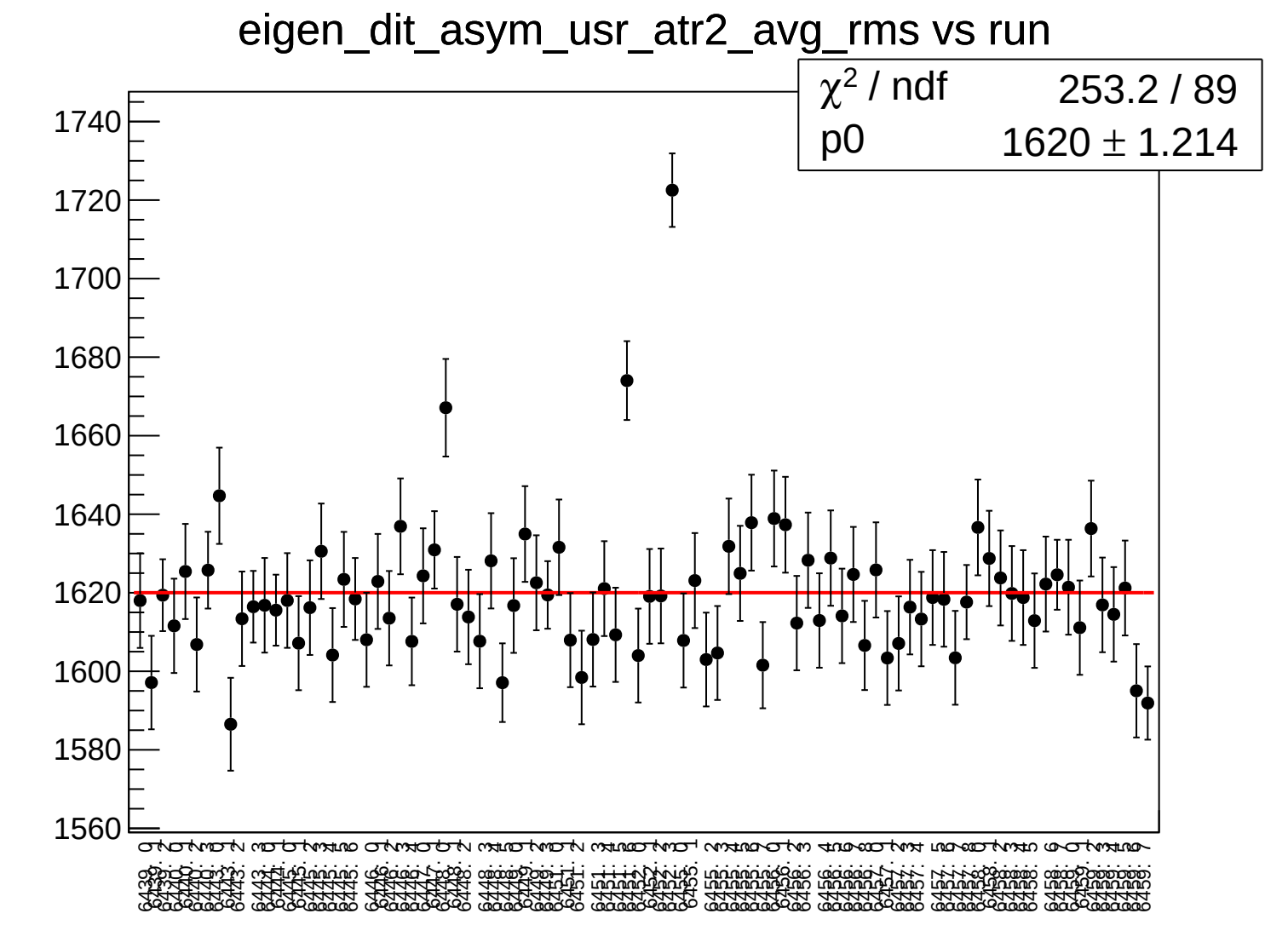

asym_usr_atr2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 80.17 / 89
p0 −5318 ± 4901
150
100
50
0
−50
−100
−150
pull
Entries 90
Mean −90.56
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

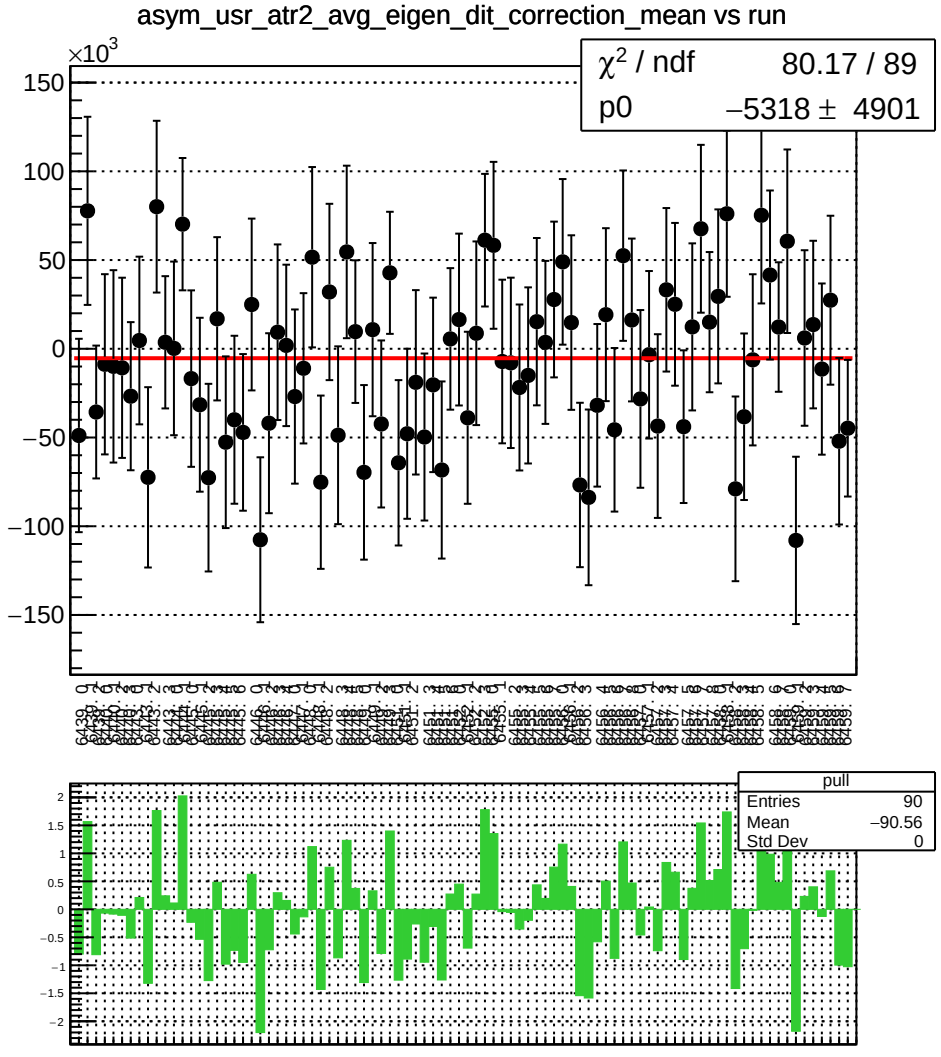

pull1D
Entries 90
Mean −0.01814
Std Dev 0.9436
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

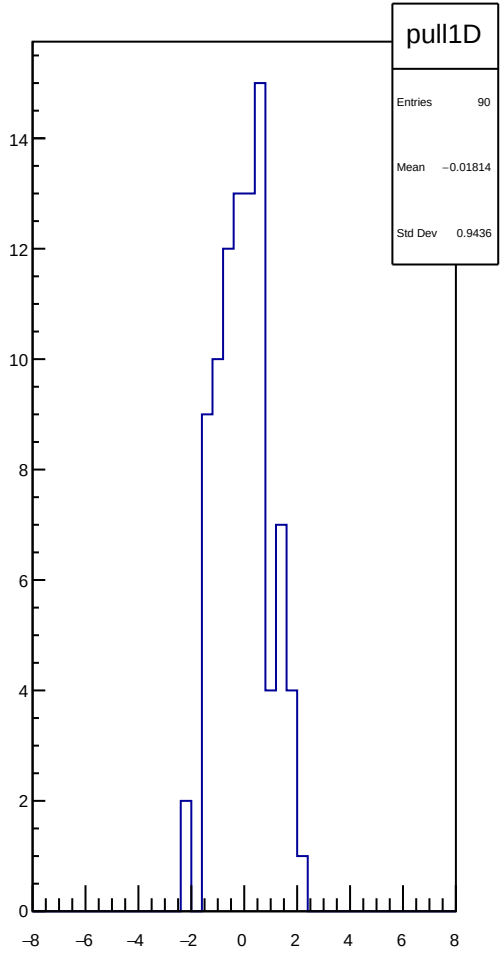

asym_usr_atr2_avg_dit_correction_rms vs run
χ² / ndf 2917 / 89
p0 4623 ± 3.466
5200
5000
4800
4600
4400
4200
4000

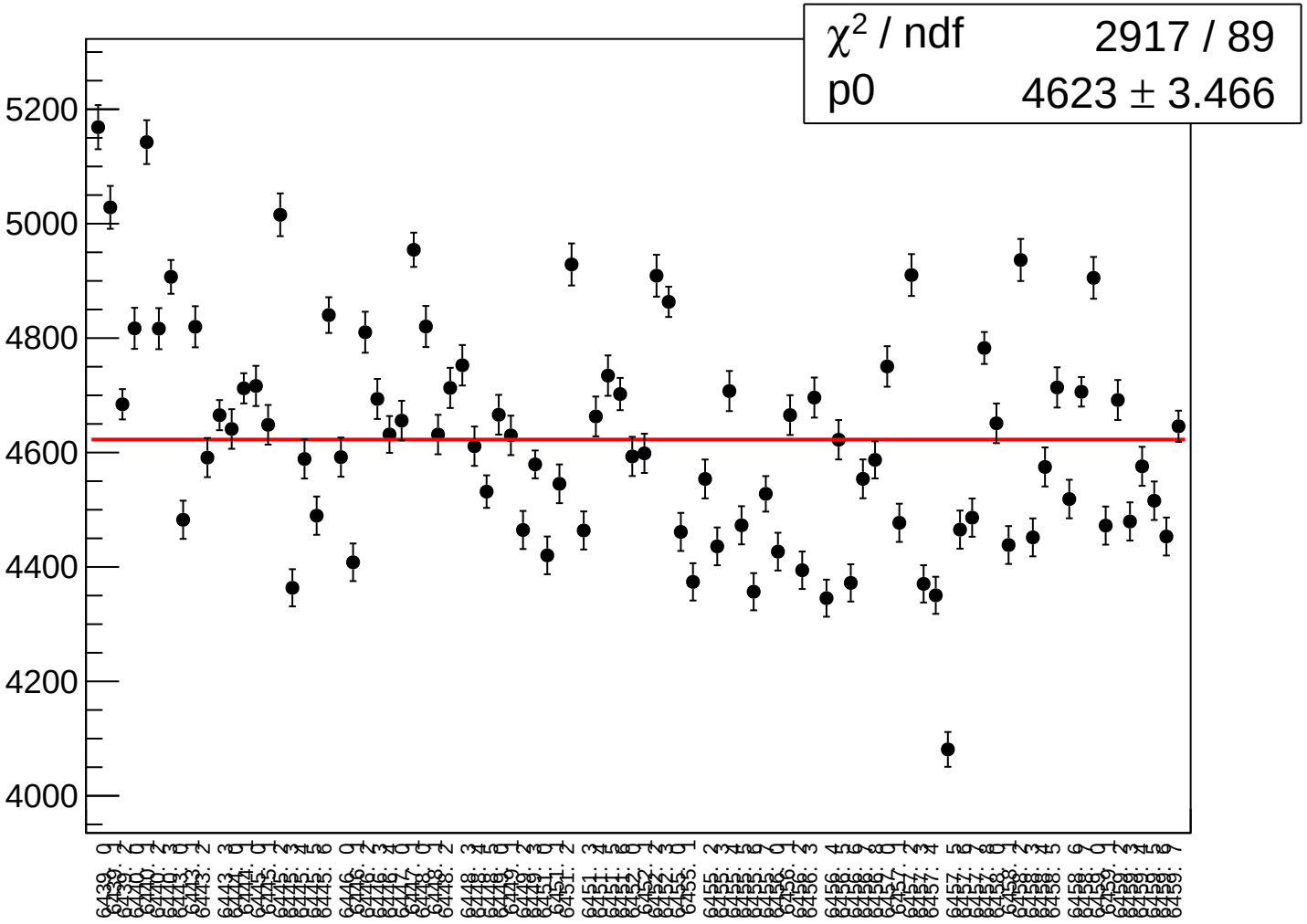

eigen_dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 92.24 / 89
p0 3744 ± 1716
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −2094
Std Dev 0
2
1
0
−1
−2

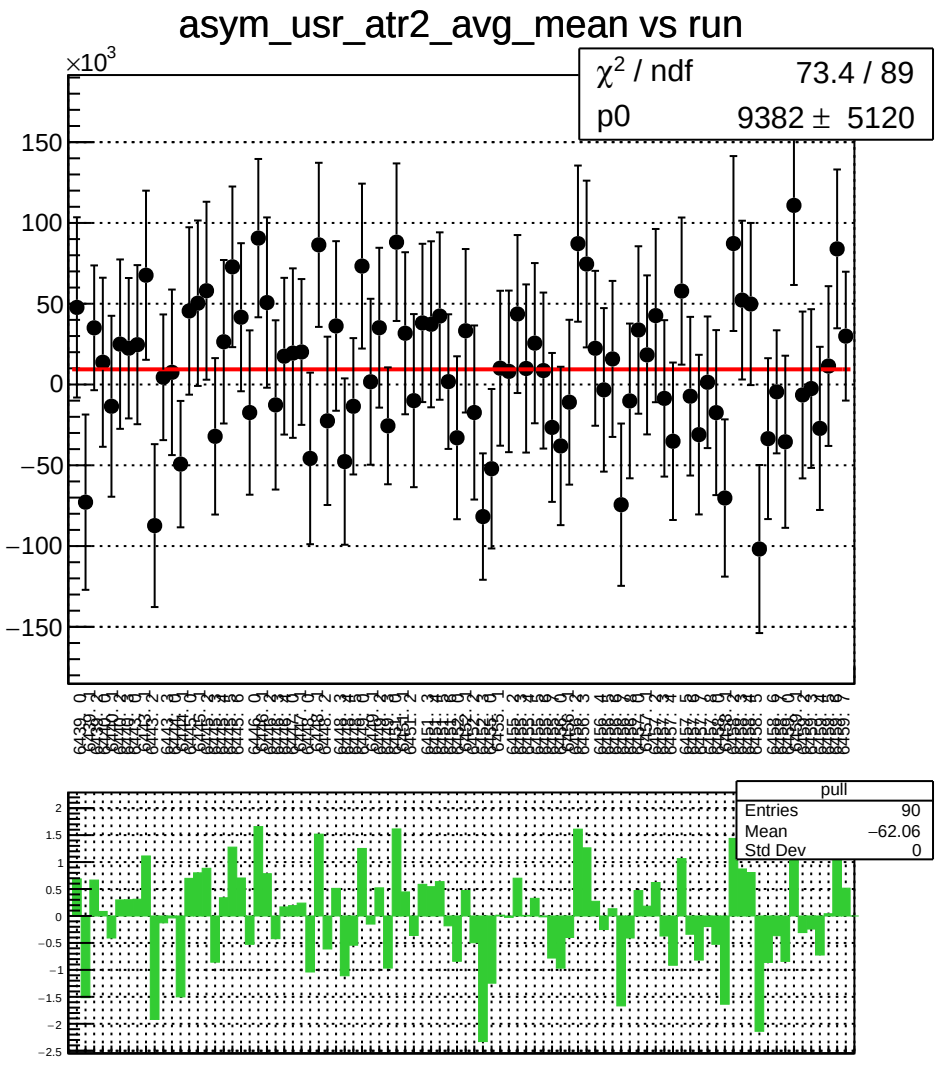

pull1D
Entries 90
Mean −0.001246
Std Dev 1.012
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

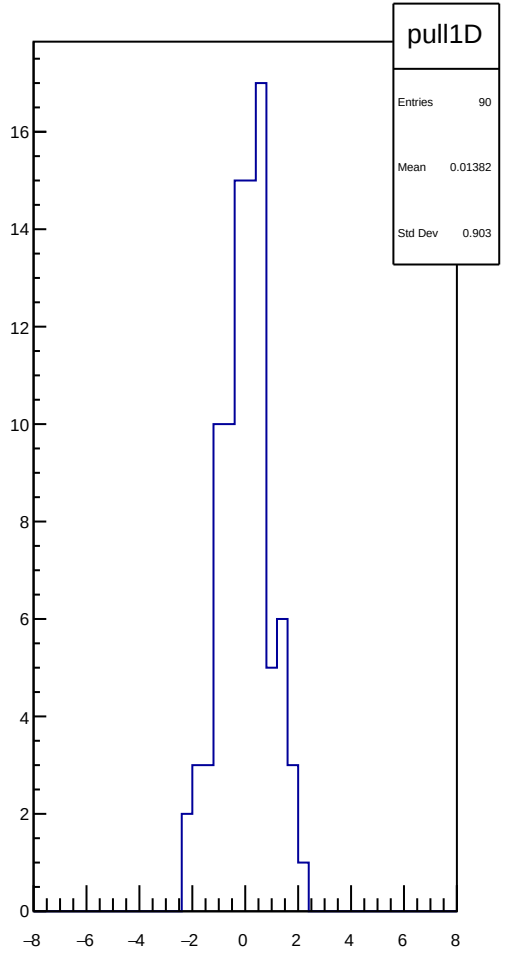

eigen_dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 253.2 / 89
p0 1620 ± 1.214
1740
1720
1700
1680
1660
1640
1620
1600
1580
1560

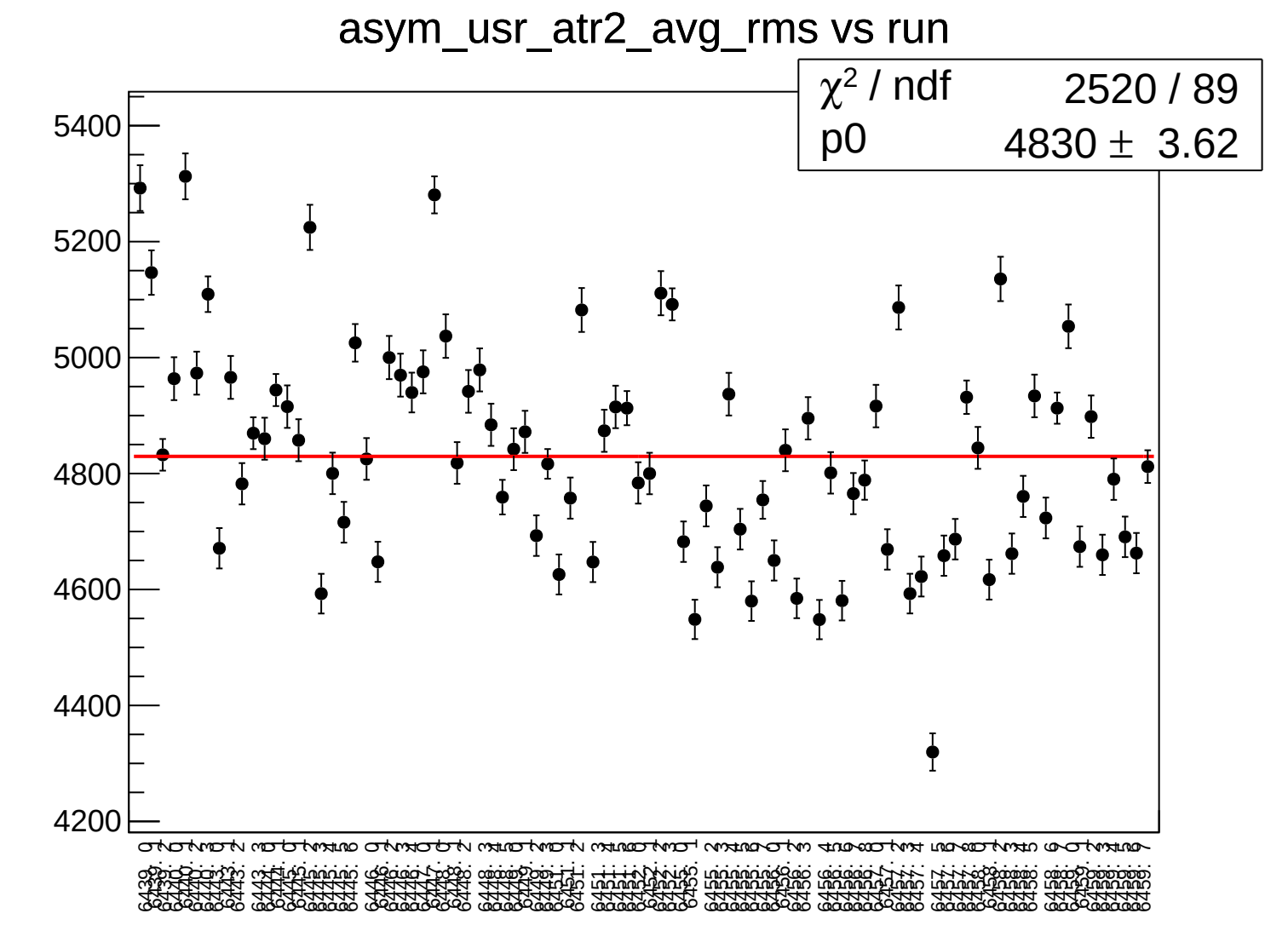

asym_usr_atr2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 80.17 / 89
p0 −5318 ± 4901
150
100
50
0
−50
−100
−150
pull
Entries 90
Mean −90.56
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

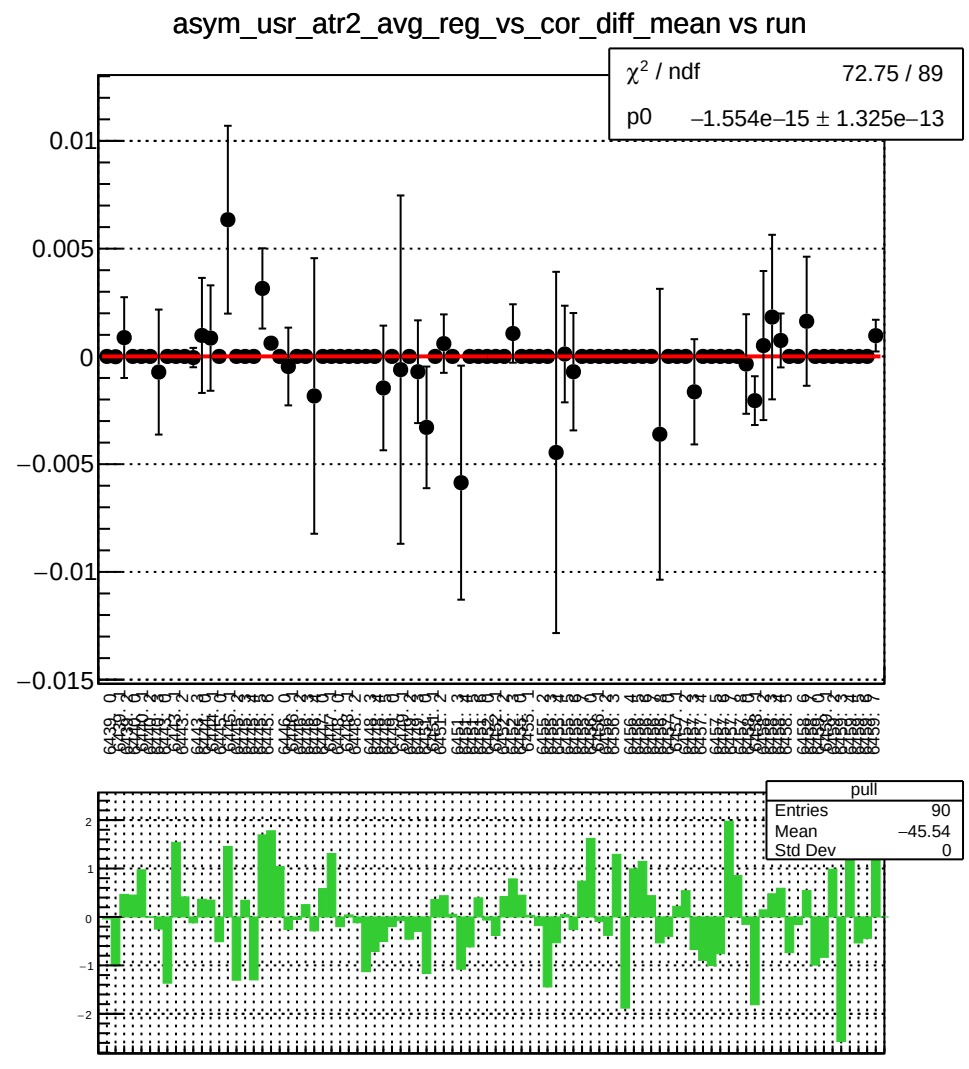

pull1D
Entries 90
Mean −0.01814
Std Dev 0.9436
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

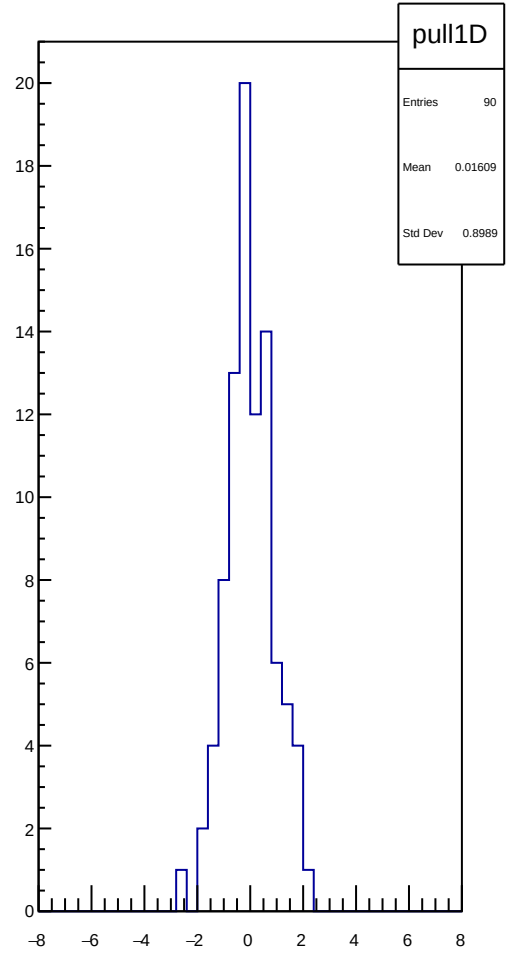

asym_usr_atr2_avg_eigen_dit_correction_rms vs run
χ² / ndf 2917 / 89
p0 4623 ± 3.466
5200
5000
4800
4600
4400
4200
4000

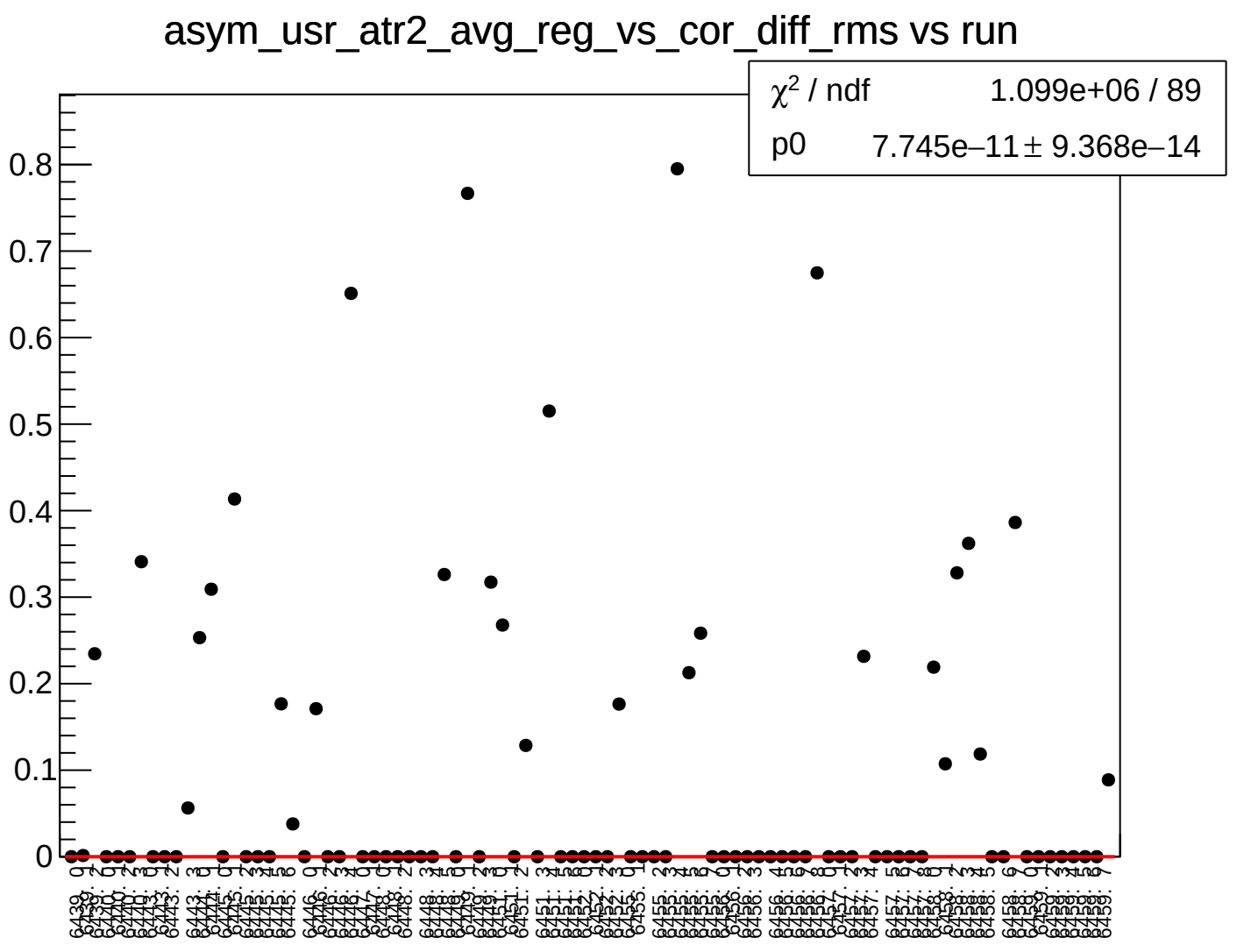

asym_usr_atr2_avg_mean vs run
×10^3
χ² / ndf 73.4 / 89
p0 9382 ± 5120
150
100
50
0
−50
−100
−150
pull
Entries 90
Mean −62.06
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

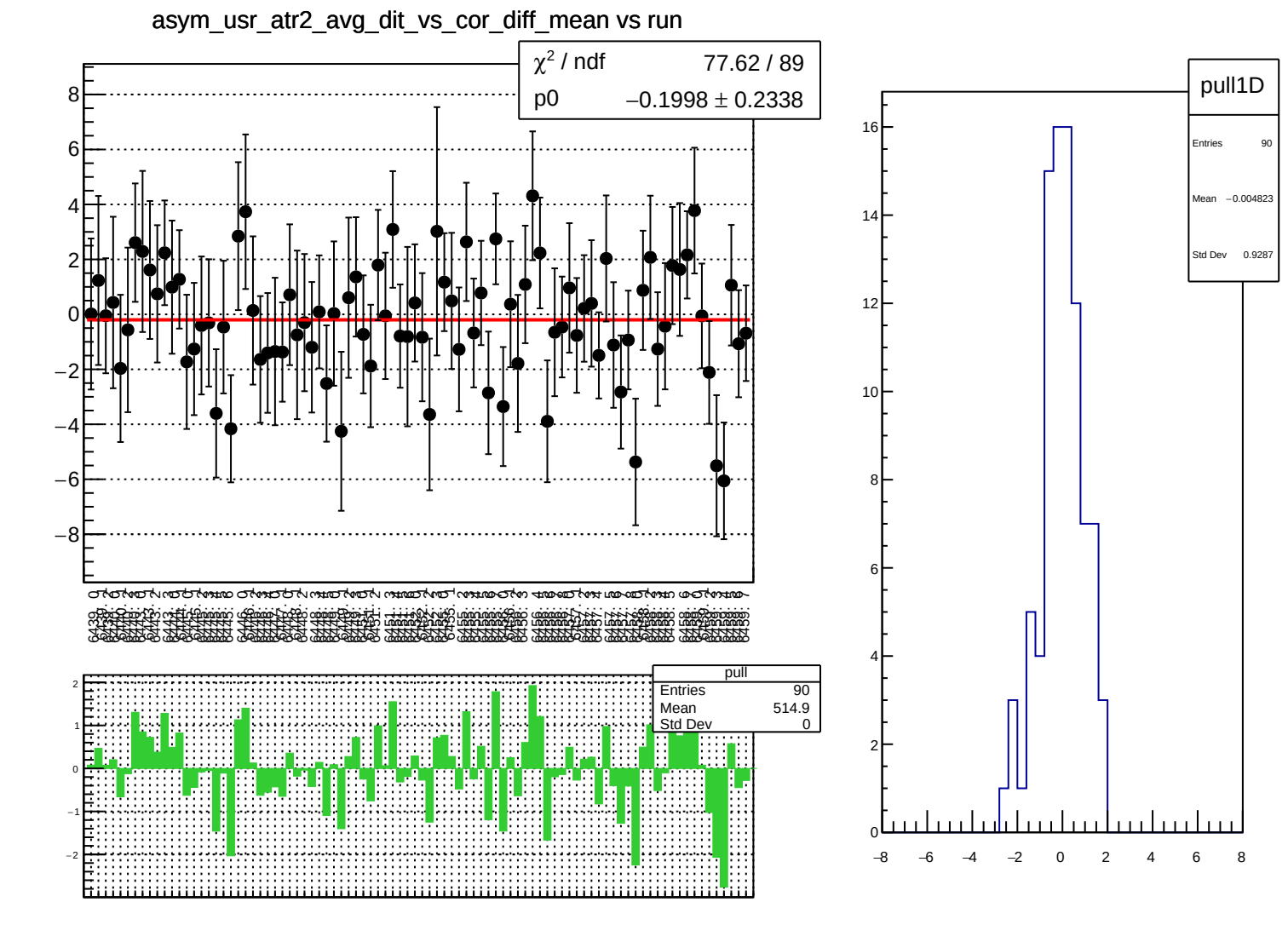

pull1D
Entries 90
Mean 0.01382
Std Dev 0.903
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

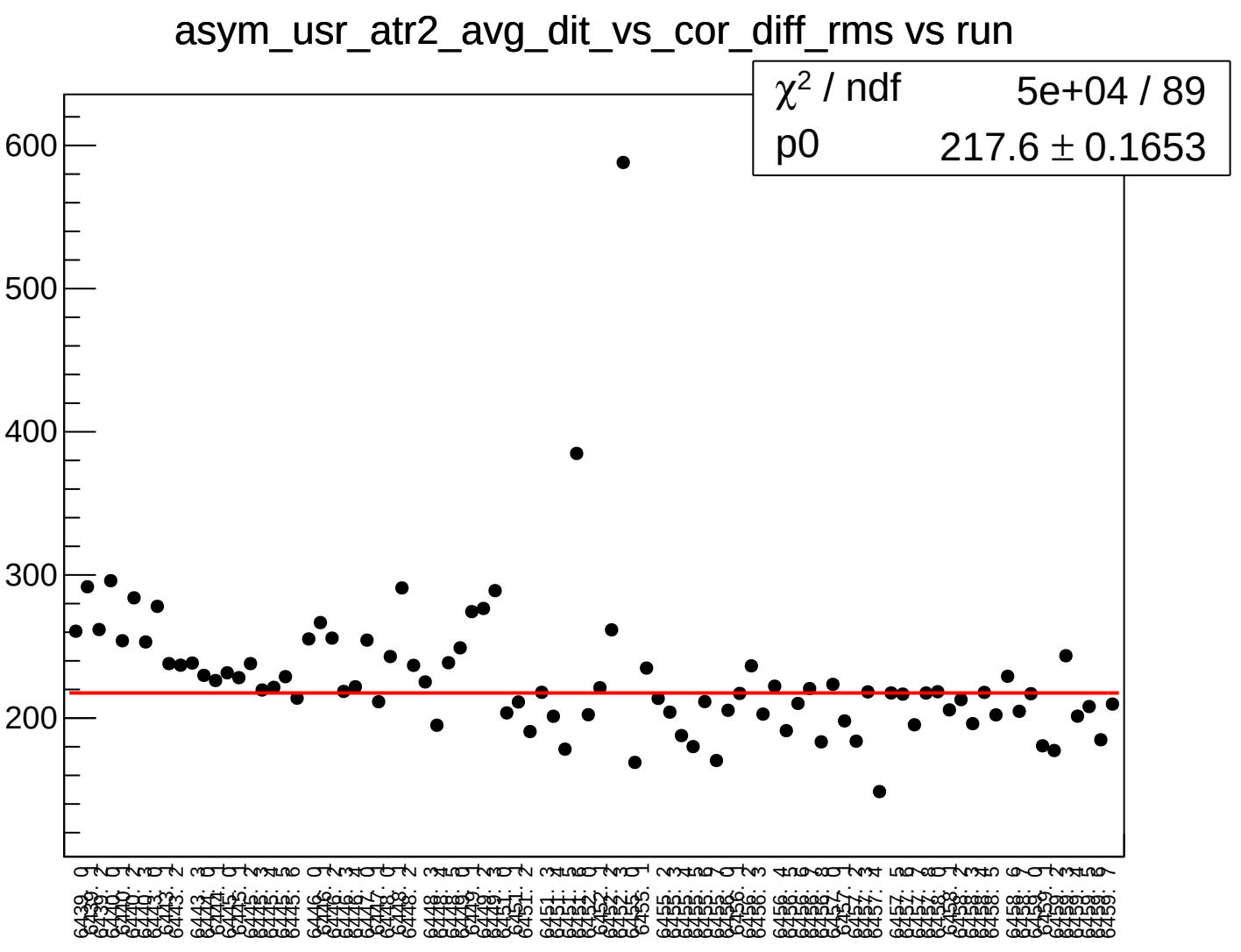

asym_usr_atr2_avg_rms vs run
χ² / ndf 2520 / 89
p0 4830 ± 3.62
5400
5200
5000
4800
4600
4400
4200

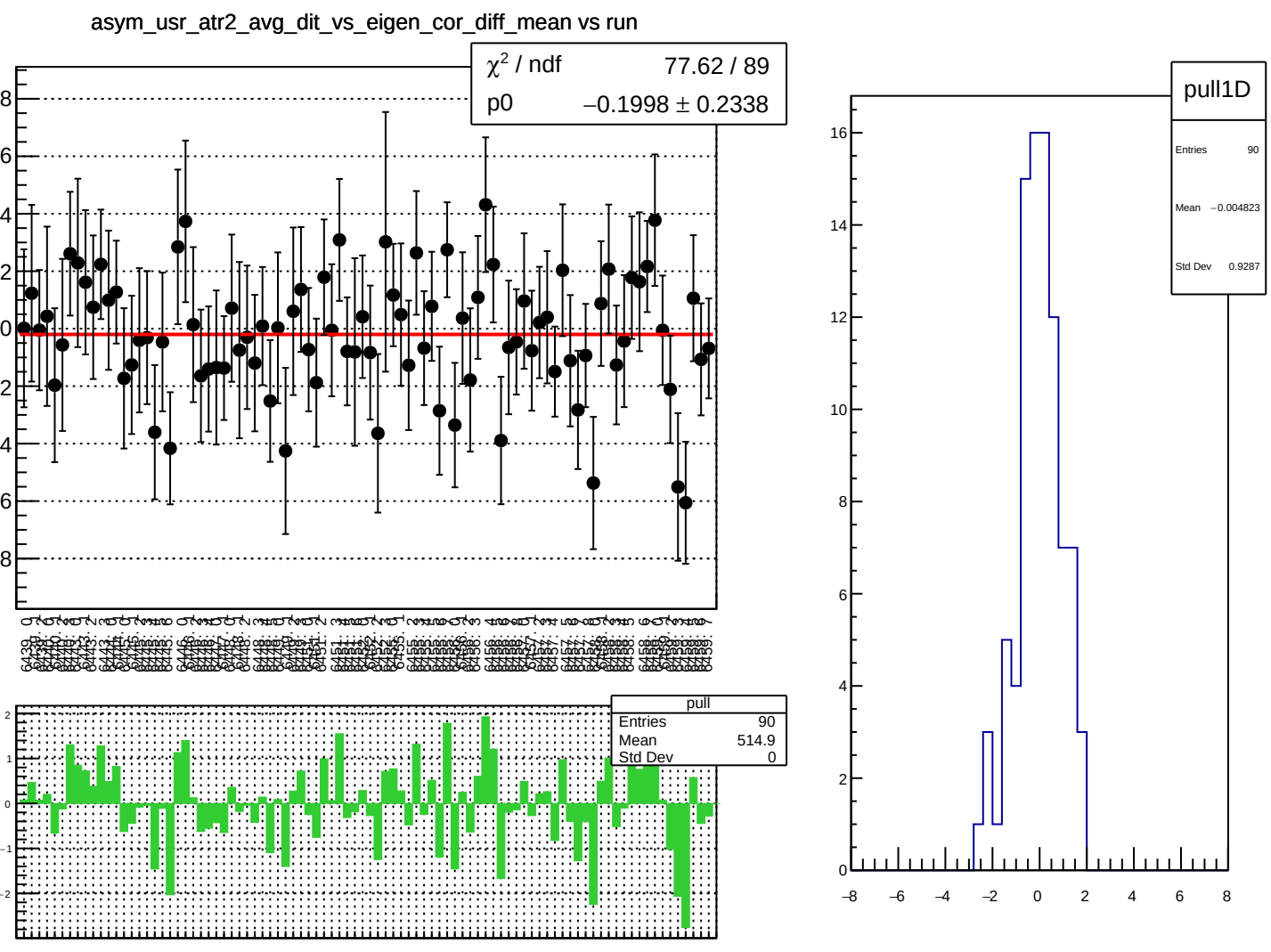

asym_usr_atr2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 72.75 / 89
p0 −1.554e−15 ± 1.325e−13
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 90
Mean −45.54
Std Dev 0
2
1
0
−1
−2

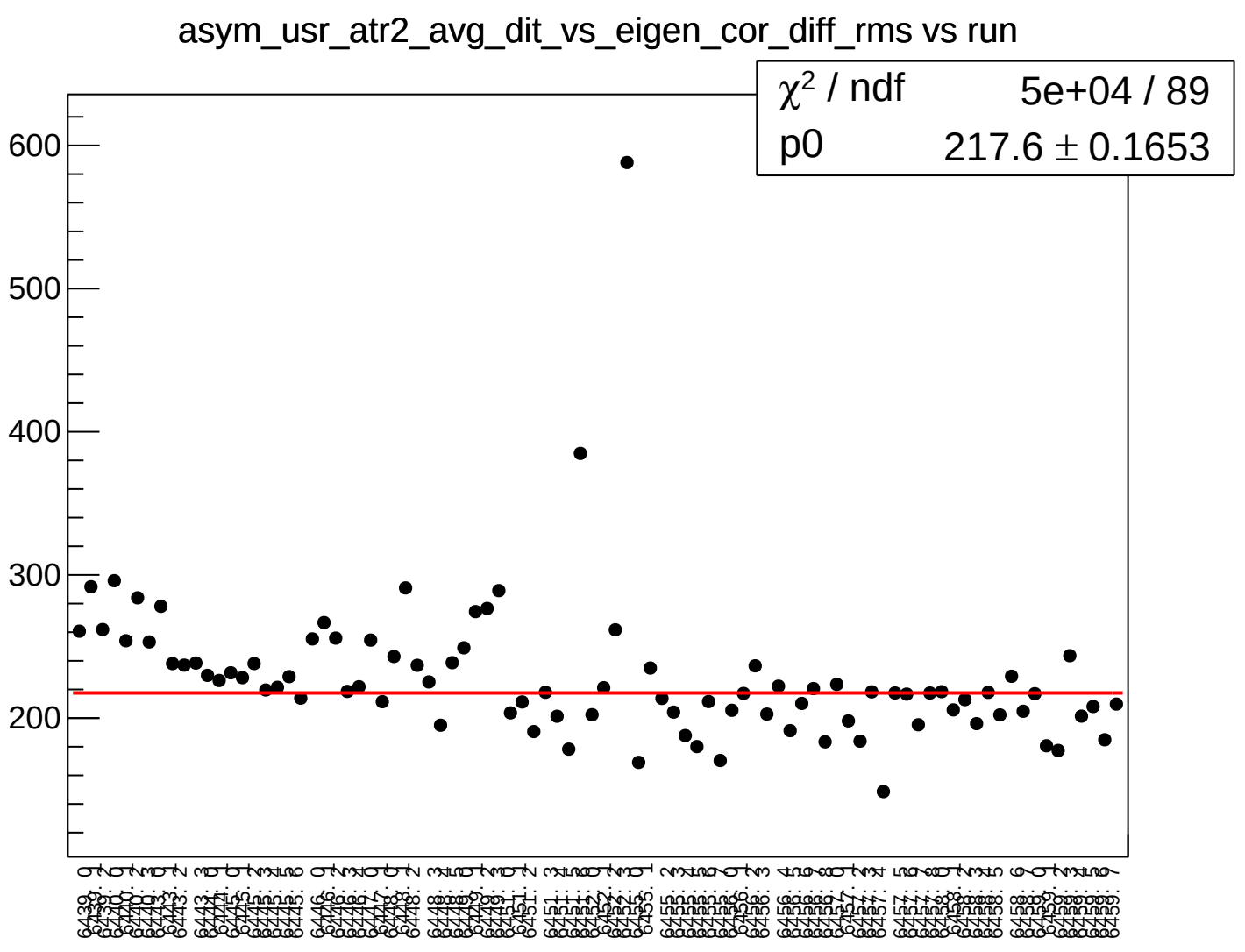

pull1D
Entries 90
Mean 0.01609
Std Dev 0.8989
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

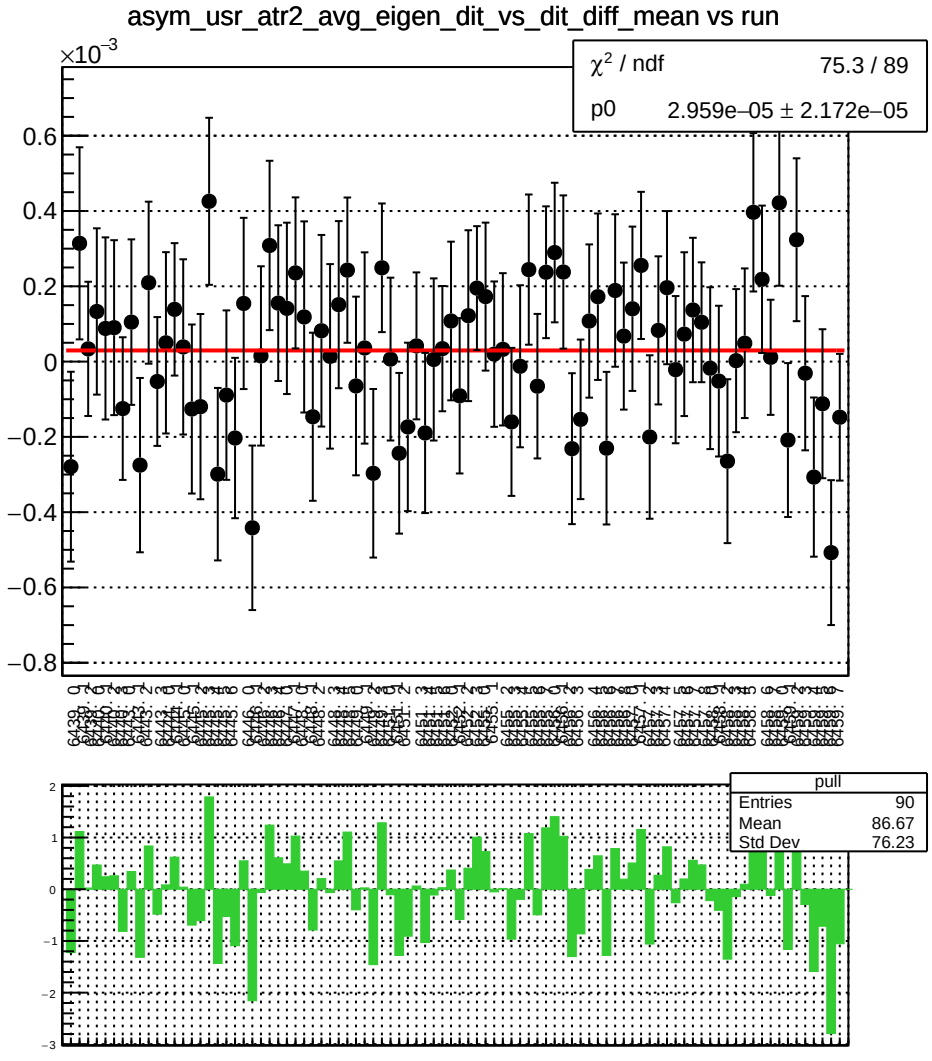

asym_usr_atr2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.099e+06 / 89
p0 7.745e−11 ± 9.368e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

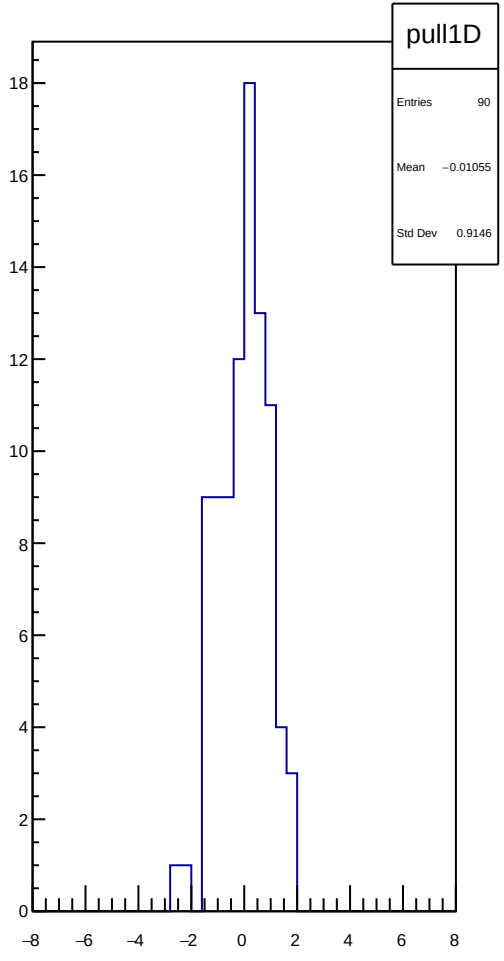

asym_usr_atr2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 77.62 / 89
p0 −0.1998 ± 0.2338
pull
Entries 90
Mean 514.9
Std Dev 0
pull1D
Entries 90
Mean −0.004823
Std Dev 0.9287

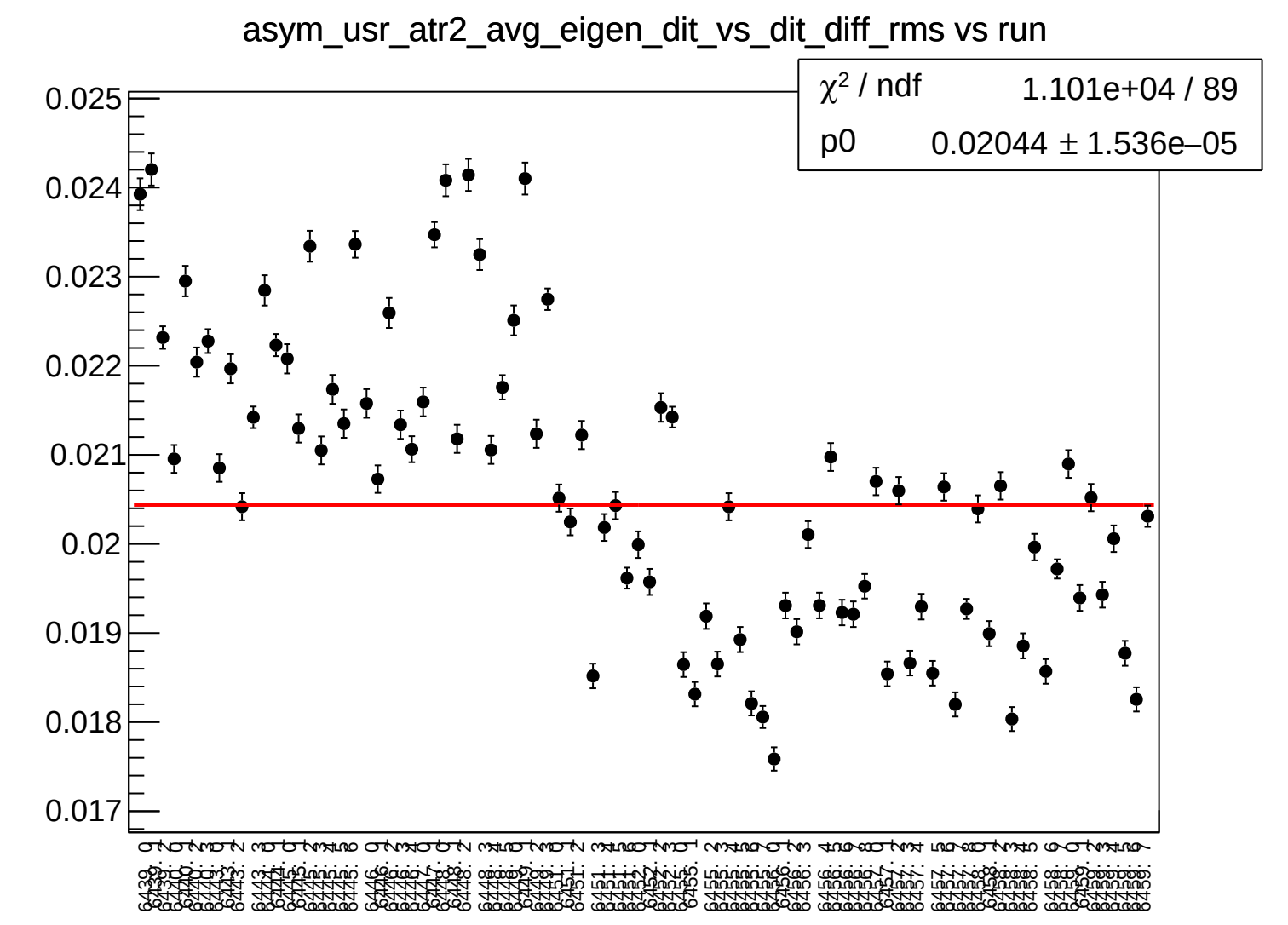

asym_usr_atr2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5e+04 / 89
p0 217.6 ± 0.1653
600
500
400
300
200

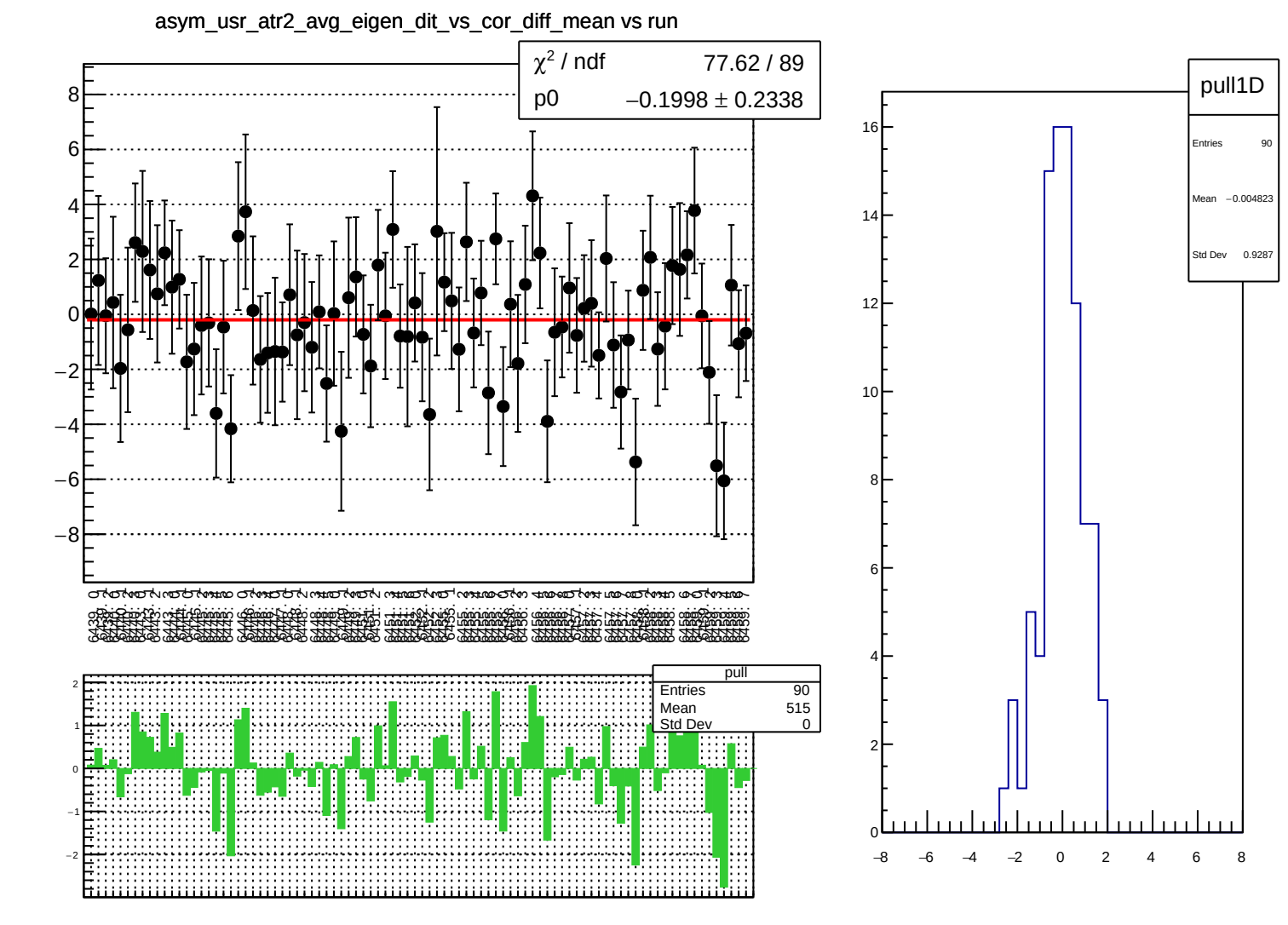

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.62 / 89
p0 −0.1998 ± 0.2338
pull
Entries 90
Mean 514.9
Std Dev 0
pull1D
Entries 90
Mean −0.004823
Std Dev 0.9287

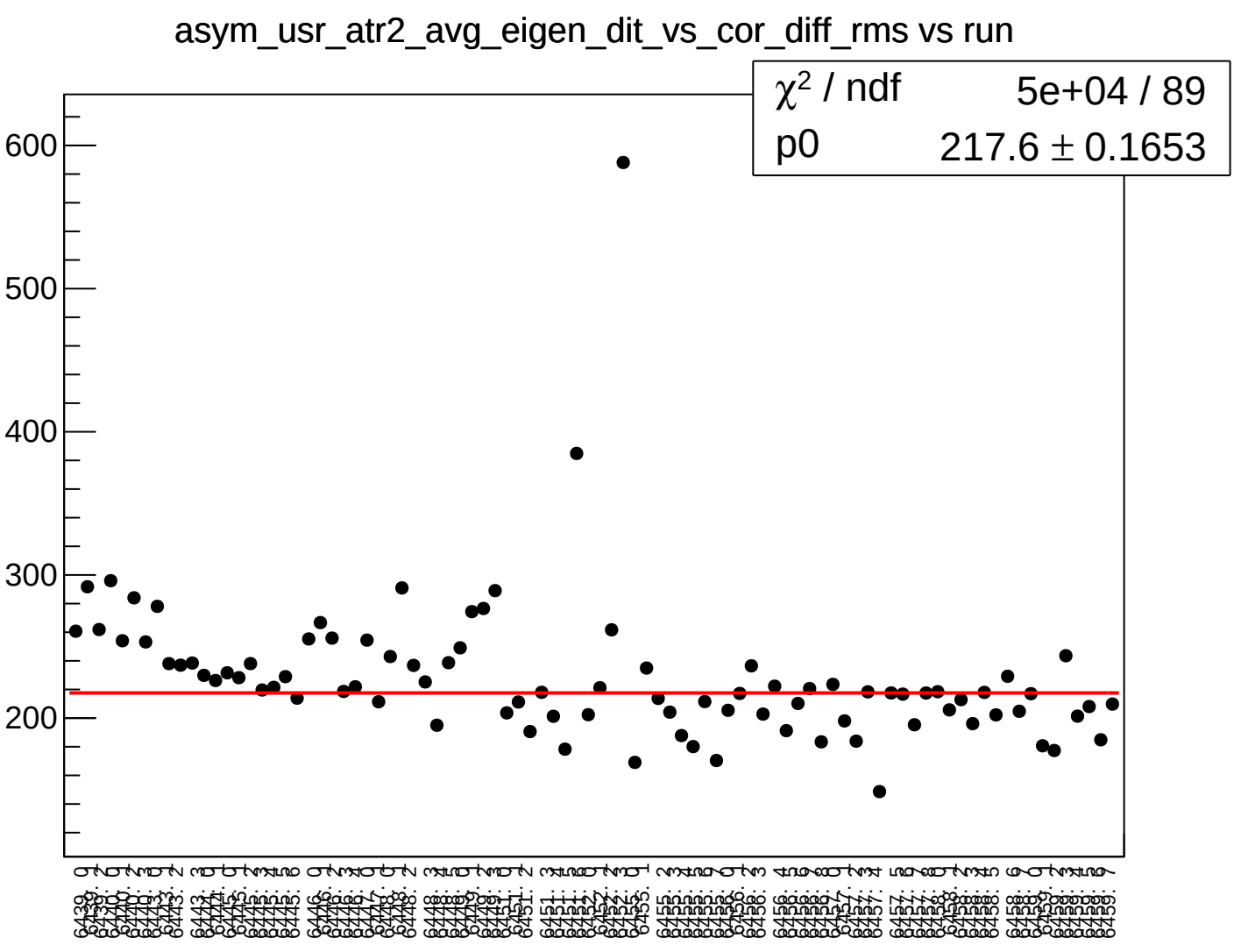

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5e+04 / 89
p0 217.6 ± 0.1653
600
500
400
300
200

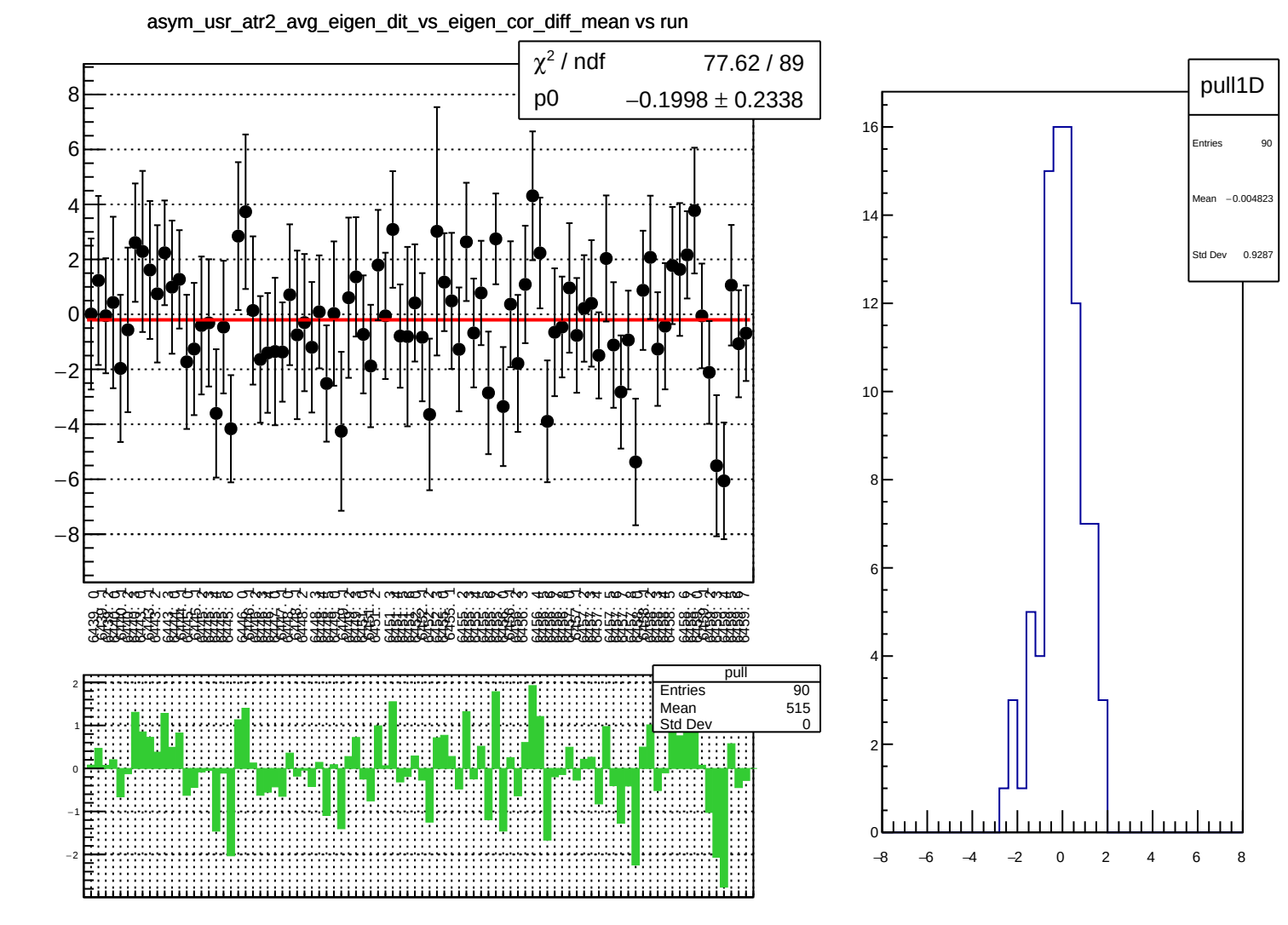

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 75.3 / 89
p0 2.959e−05 ± 2.172e−05
pull
Entries 90
Mean 86.67
Std Dev 76.23

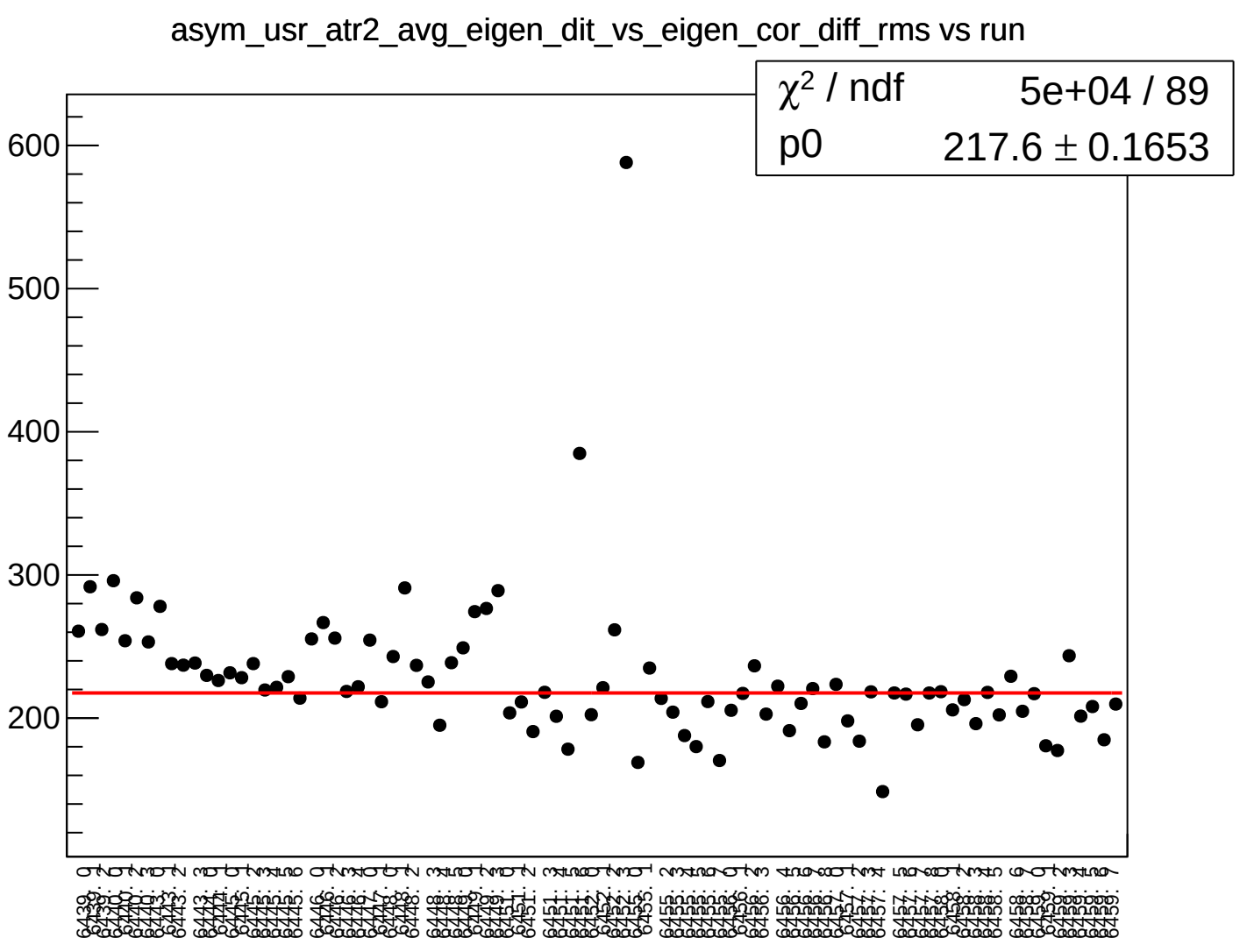

pull1D
Entries 90
Mean −0.01055
Std Dev 0.9146

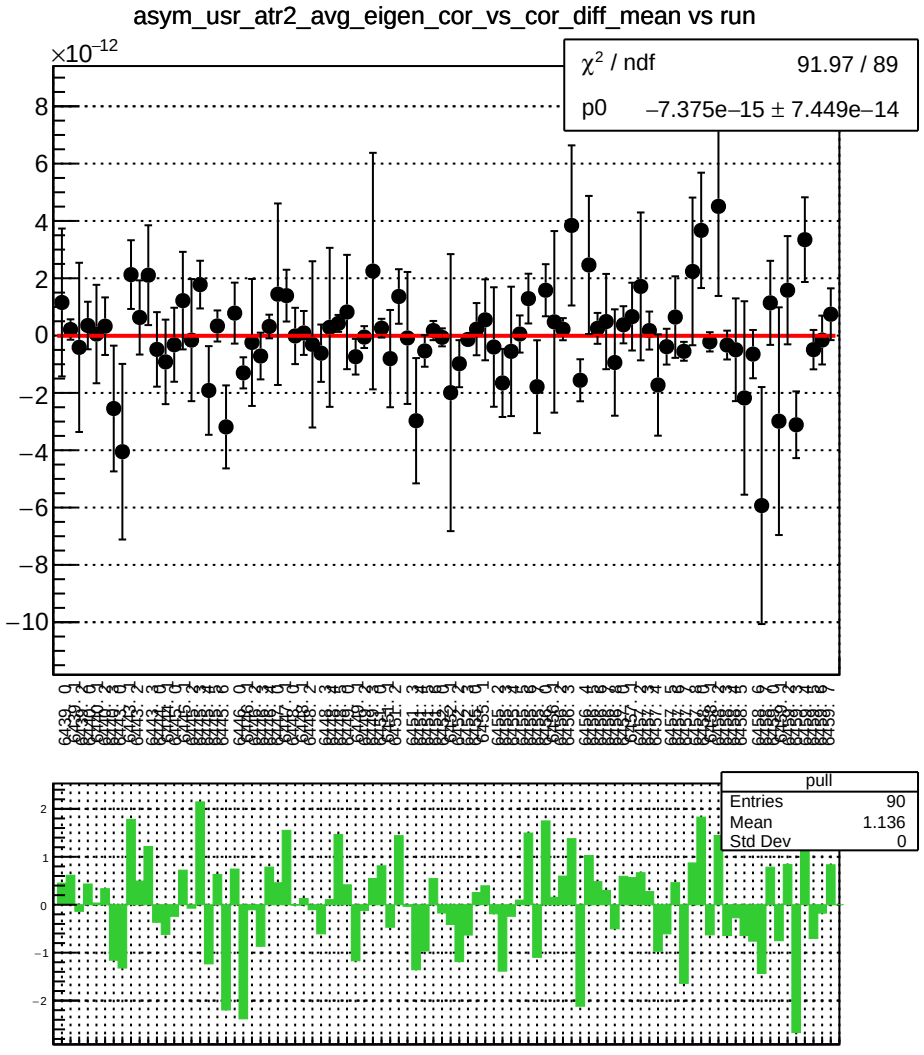

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.101e+04 / 89
p0 0.02044 ± 1.536e−05
0.025
0.024
0.023
0.022
0.021
0.02
0.019
0.018
0.017

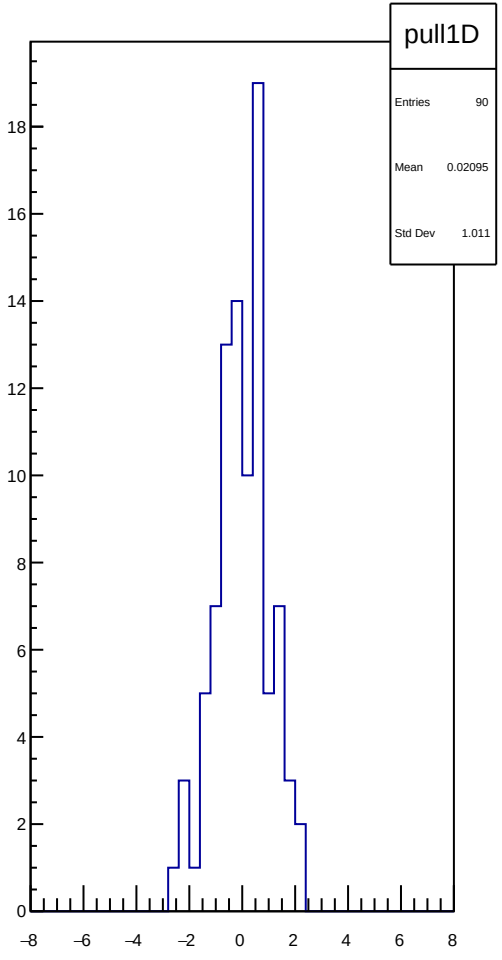

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.62 / 89
p0 −0.1998 ± 0.2338
pull
Entries 90
Mean 515
Std Dev 0
pull1D
Entries 90
Mean −0.004823
Std Dev 0.9287

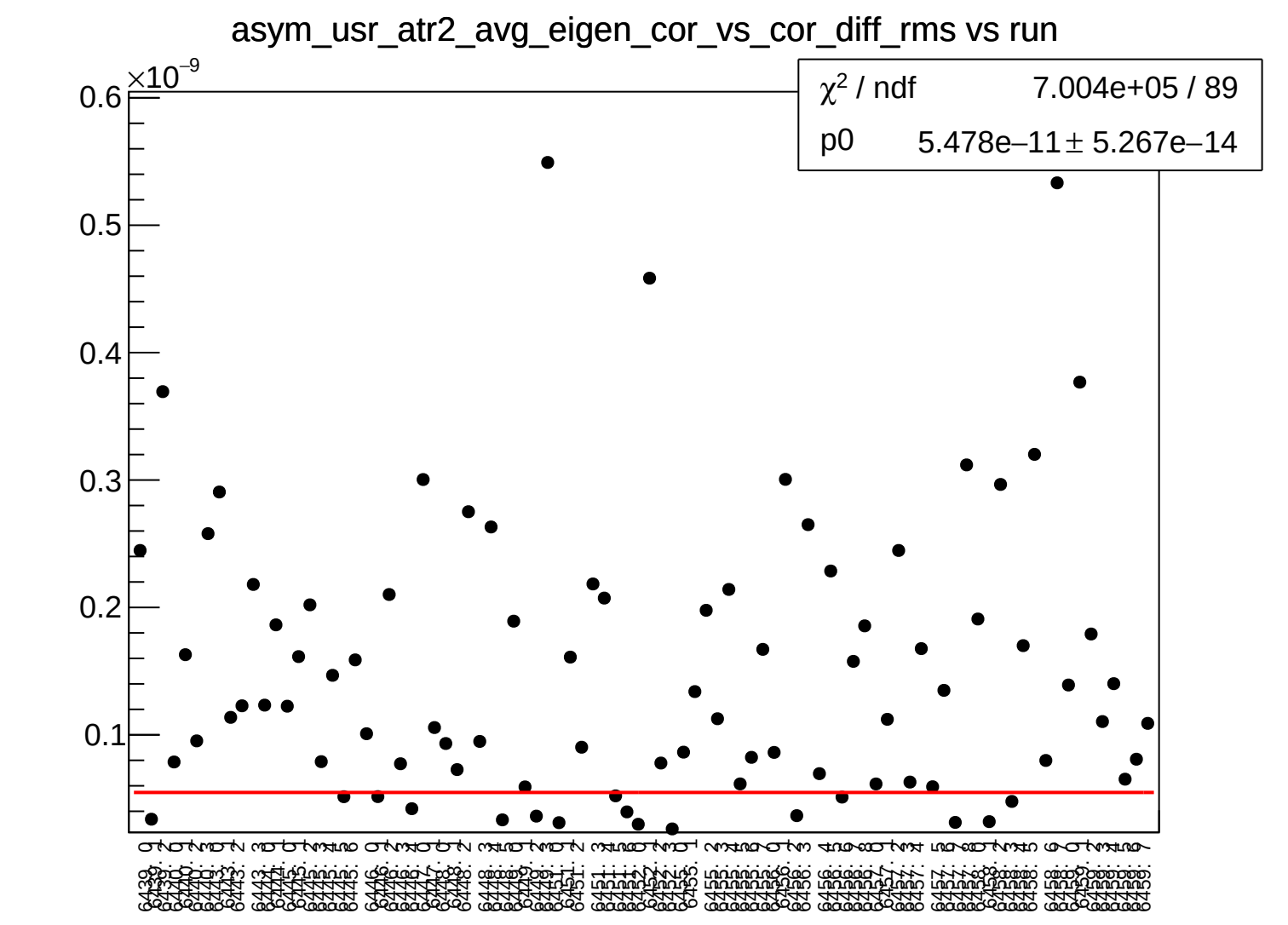

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5e+04 / 89
p0 217.6 ± 0.1653
600
500
400
300
200

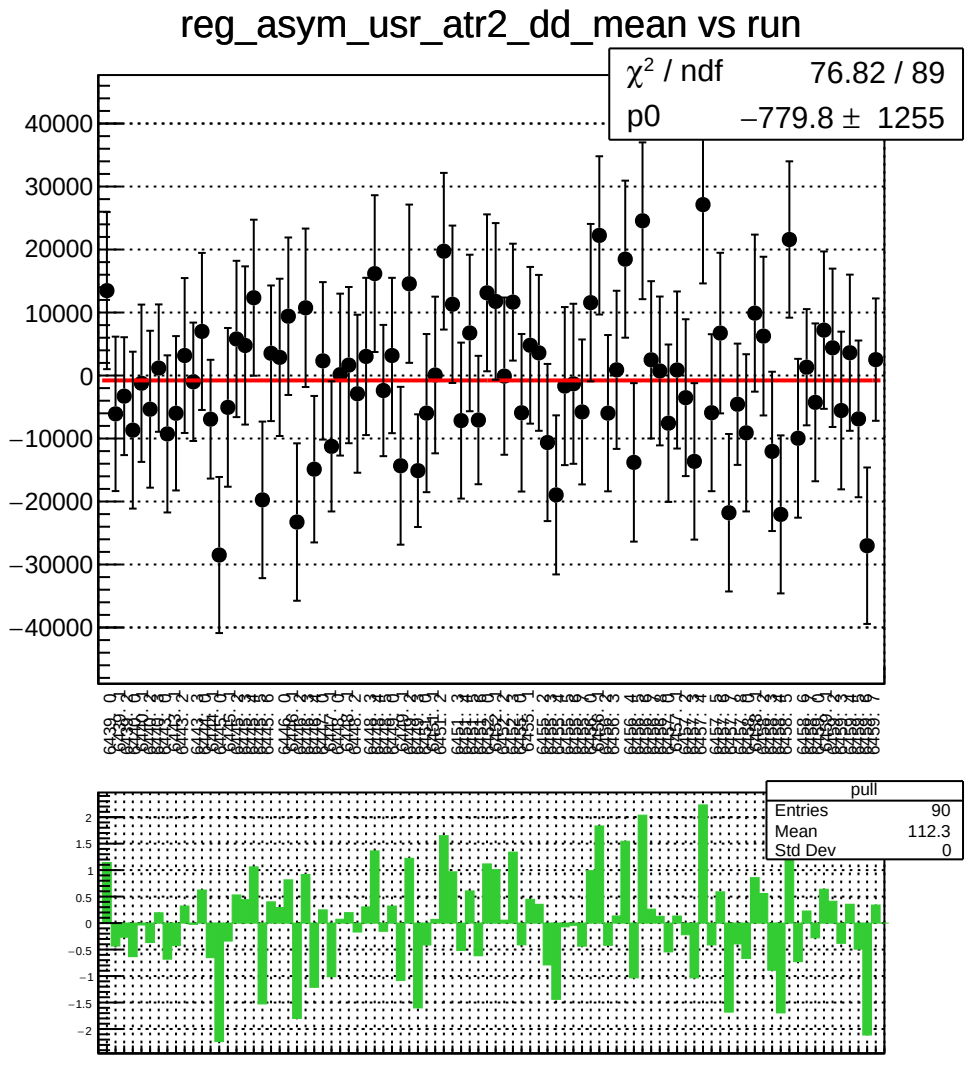

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.62 / 89
p0 −0.1998 ± 0.2338
pull
Entries 90
Mean 515
Std Dev 0
pull1D
Entries 90
Mean −0.004823
Std Dev 0.9287

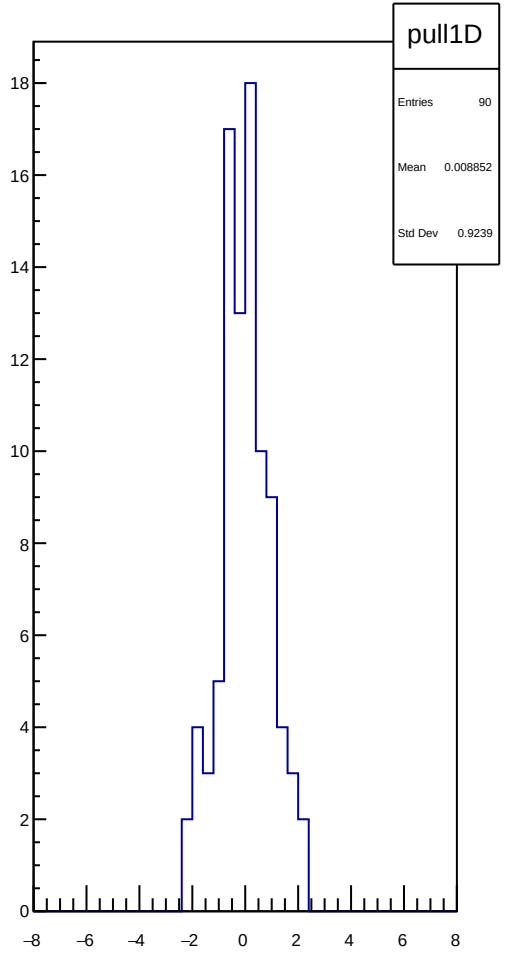

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5e+04 / 89
p0 217.6 ± 0.1653
600
500
400
300
200

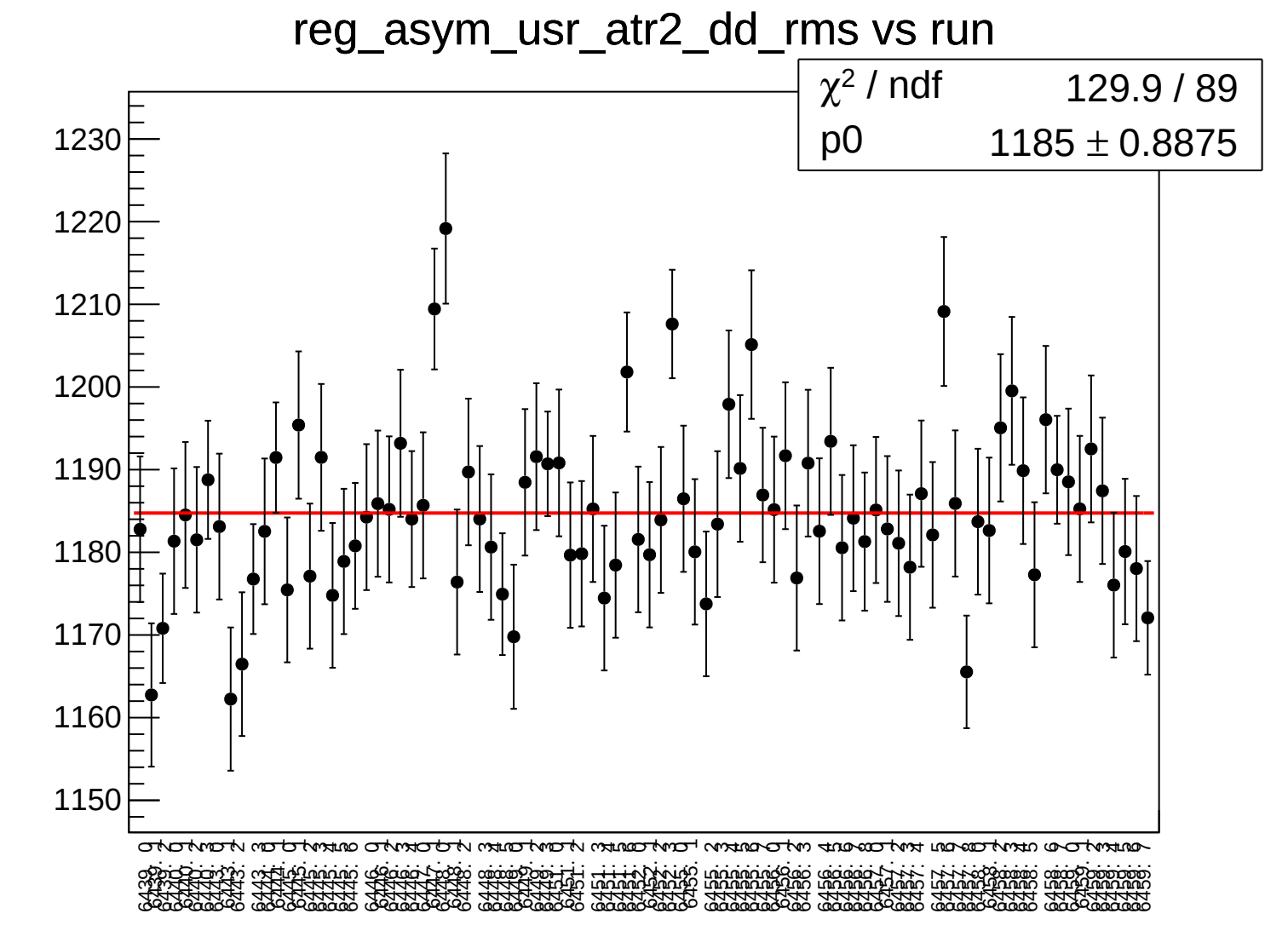

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.97 / 89
p0 −7.375e−15 ± 7.449e−14
pull
Entries 90
Mean 1.136
Std Dev 0

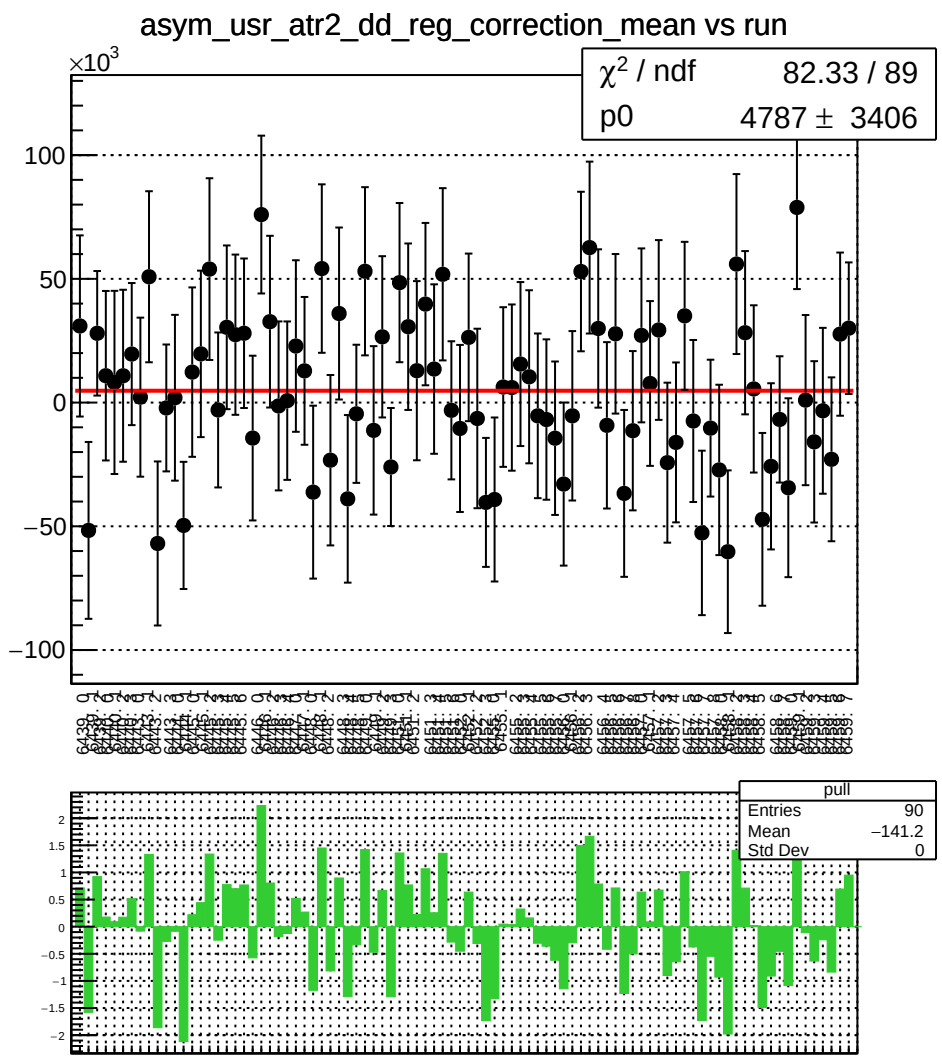

pull1D
Entries 90
Mean 0.02095
Std Dev 1.011

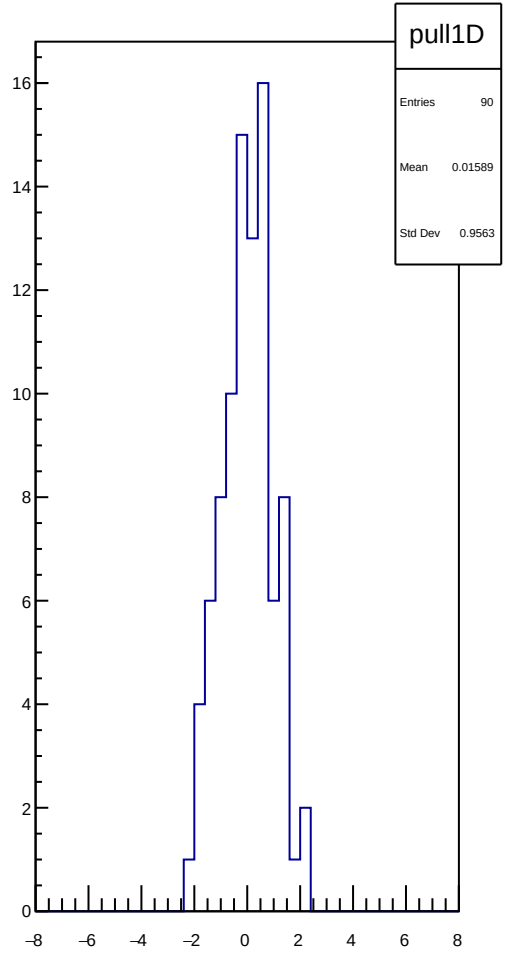

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.6
0.5
0.4
0.3
0.2
0.1
χ² / ndf 7.004e+05 / 89
p0 5.478e−11 ± 5.267e−14

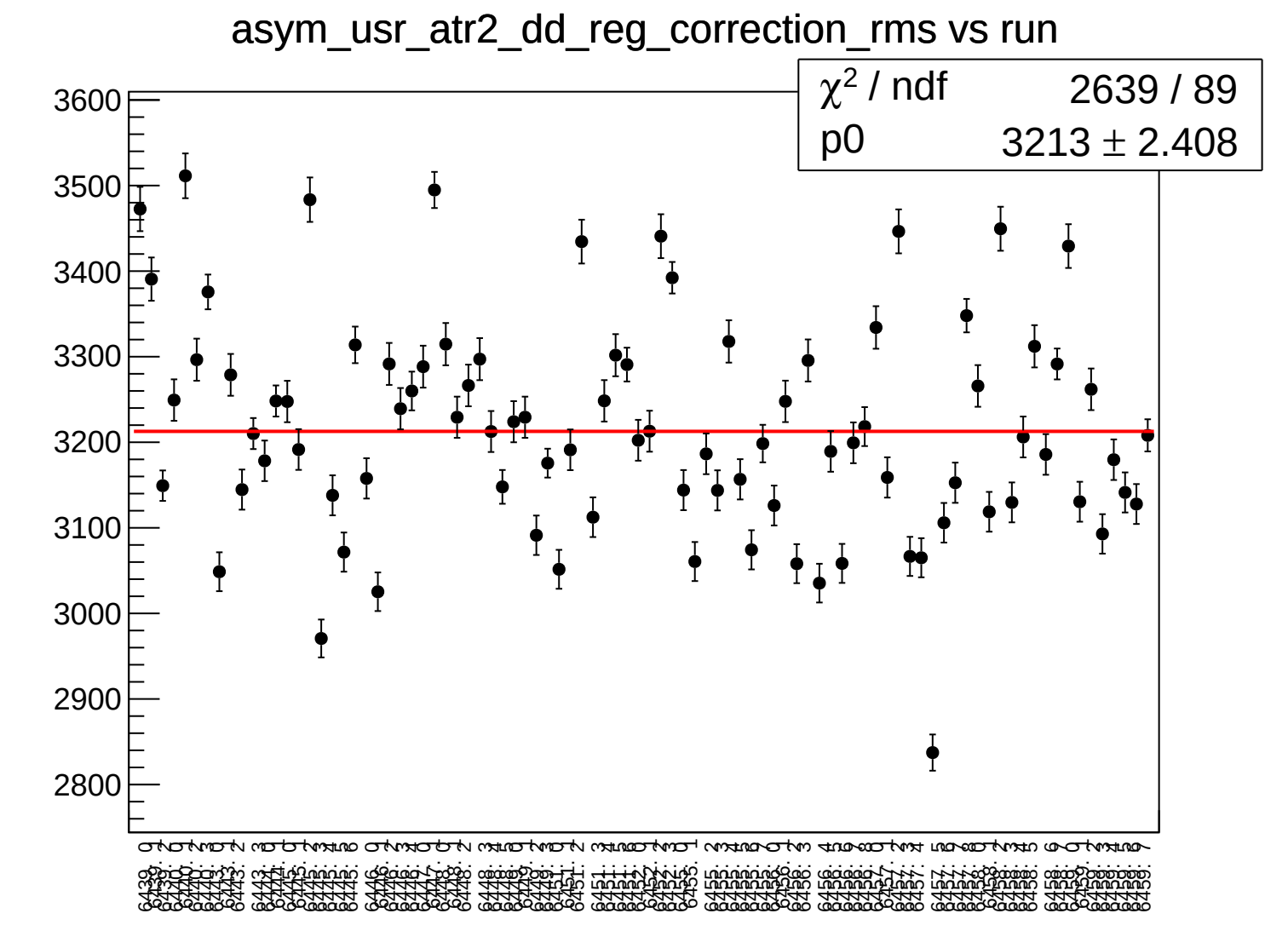

reg_asym_usr_atr2_dd_mean vs run
χ² / ndf 76.82 / 89
p0 −779.8 ± 1255
pull
Entries 90
Mean 112.3
Std Dev 0

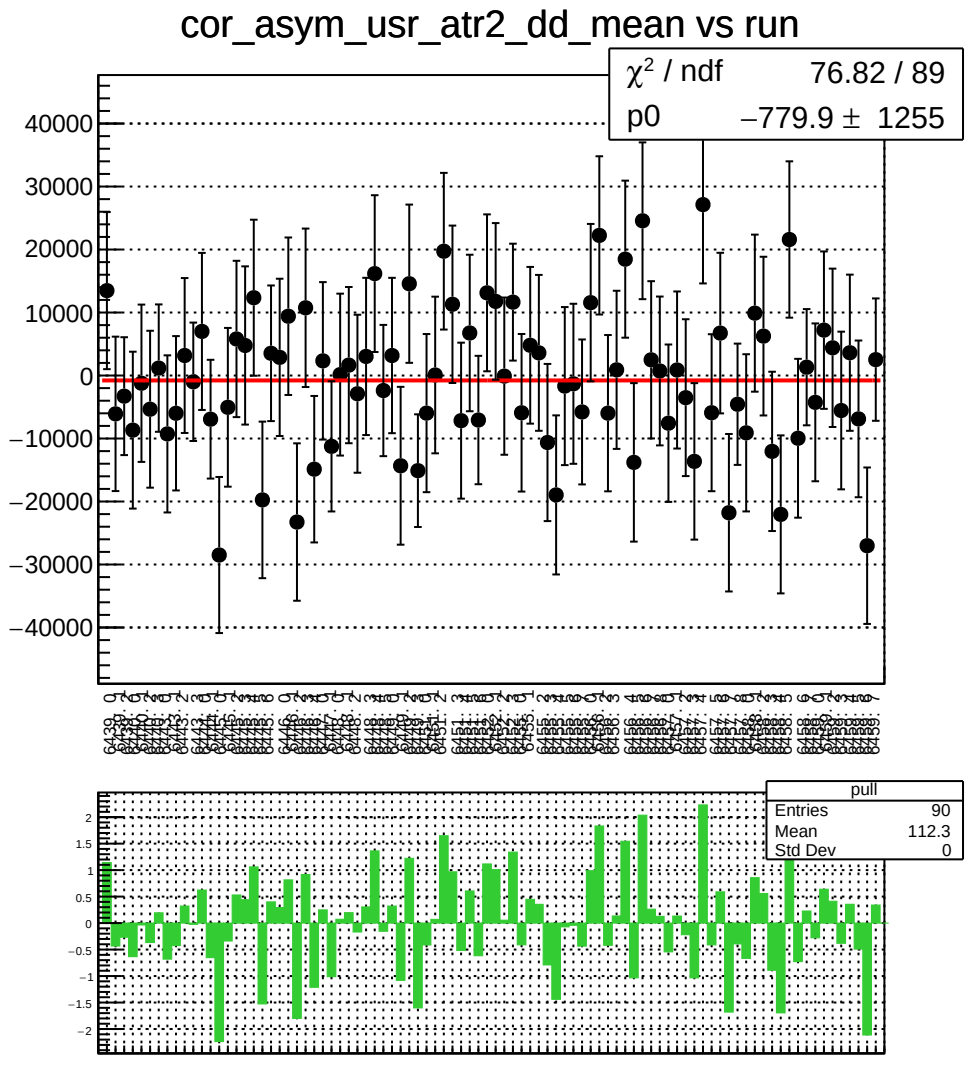

pull1D
Entries 90
Mean 0.008852
Std Dev 0.9239

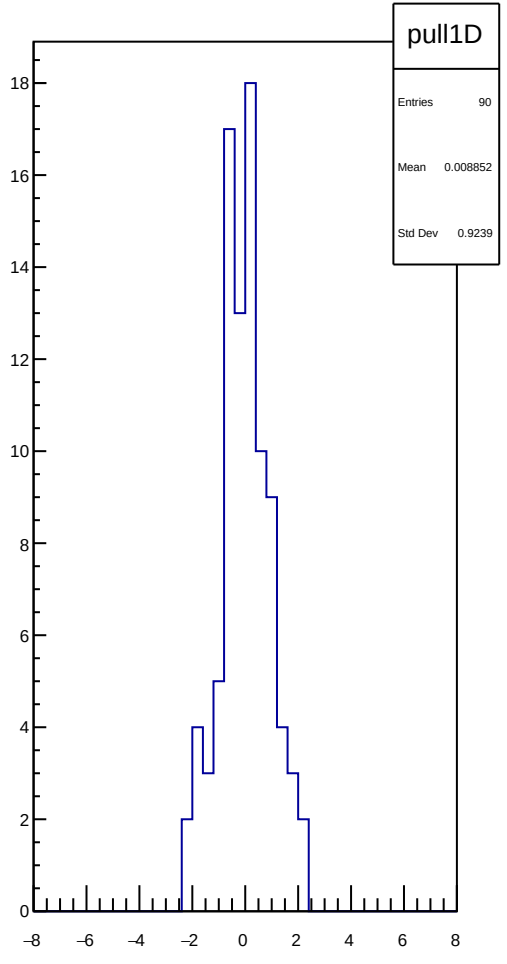

reg_asym_usr_atr2_dd_rms vs run
χ^2 / ndf 129.9 / 89
p0 1185 ± 0.8875
1230
1220
1210
1200
1190
1180
1170
1160
1150

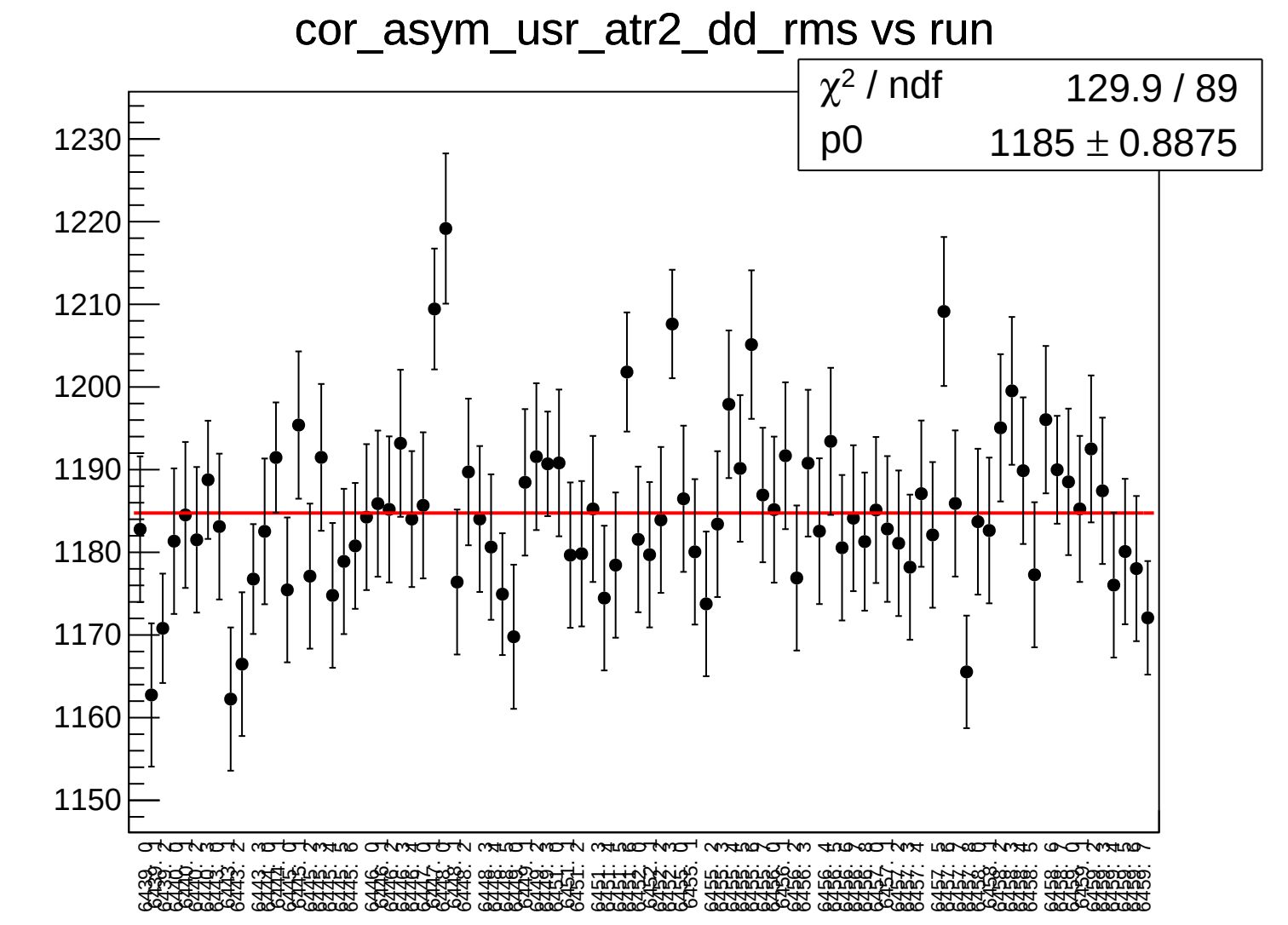

asym_usr_atr2_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 82.33 / 89
p0 4787 ± 3406
100
50
0
−50
−100
pull
Entries 90
Mean −141.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

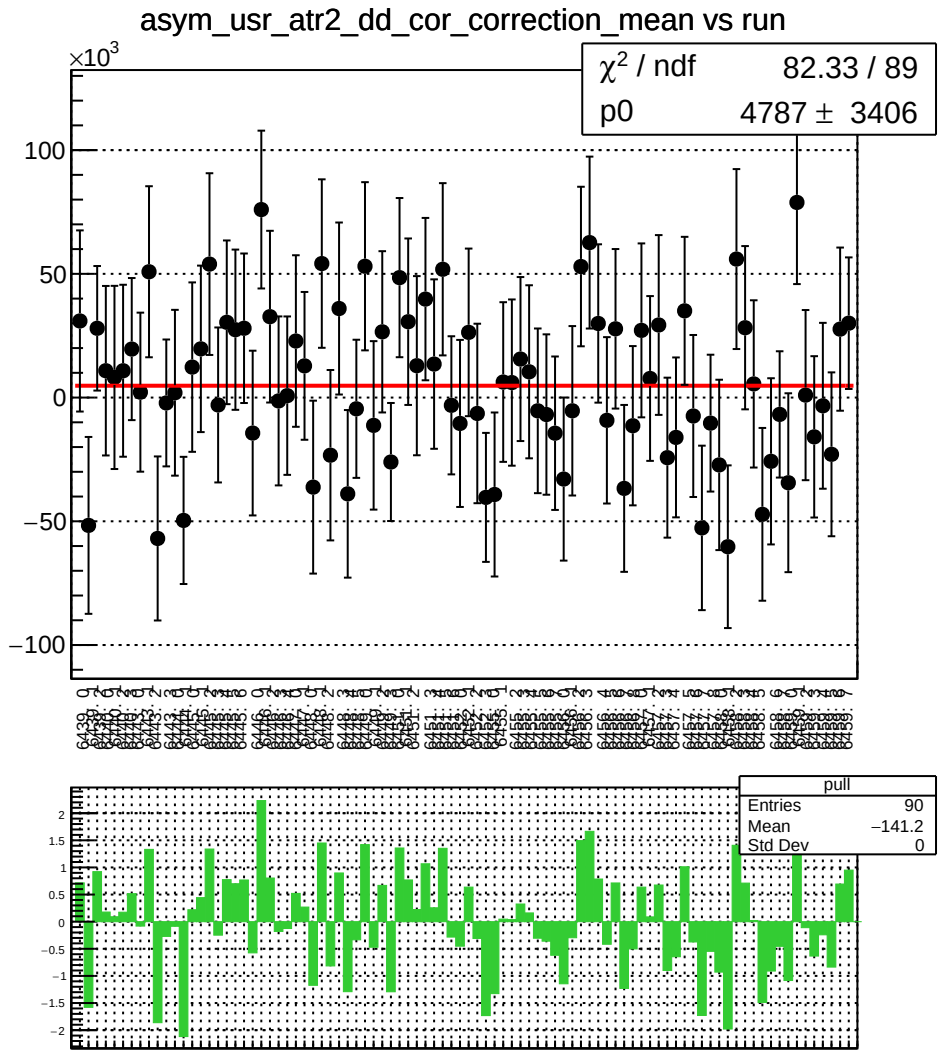

pull1D
Entries 90
Mean 0.01589
Std Dev 0.9563
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

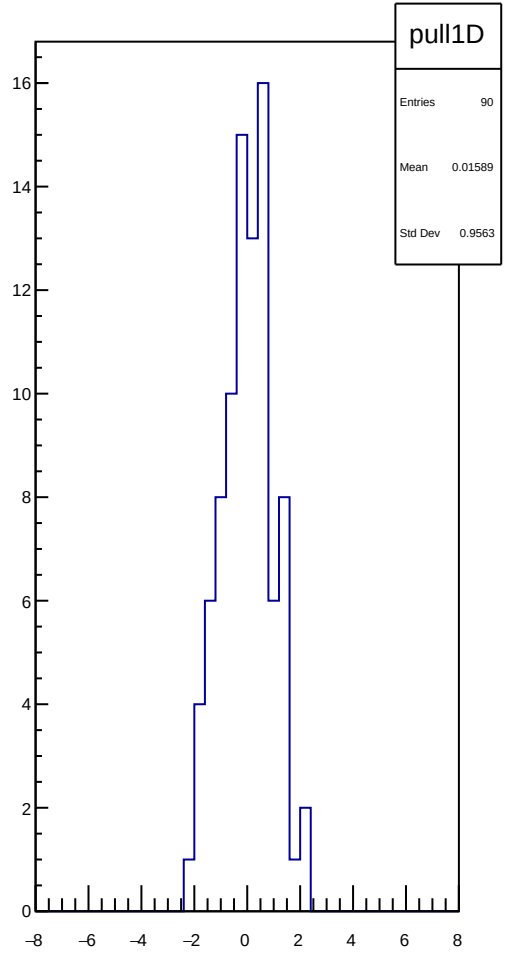

asym_usr_atr2_dd_reg_correction_rms vs run
χ² / ndf 2639 / 89
p0 3213 ± 2.408
3600
3500
3400
3300
3200
3100
3000
2900
2800

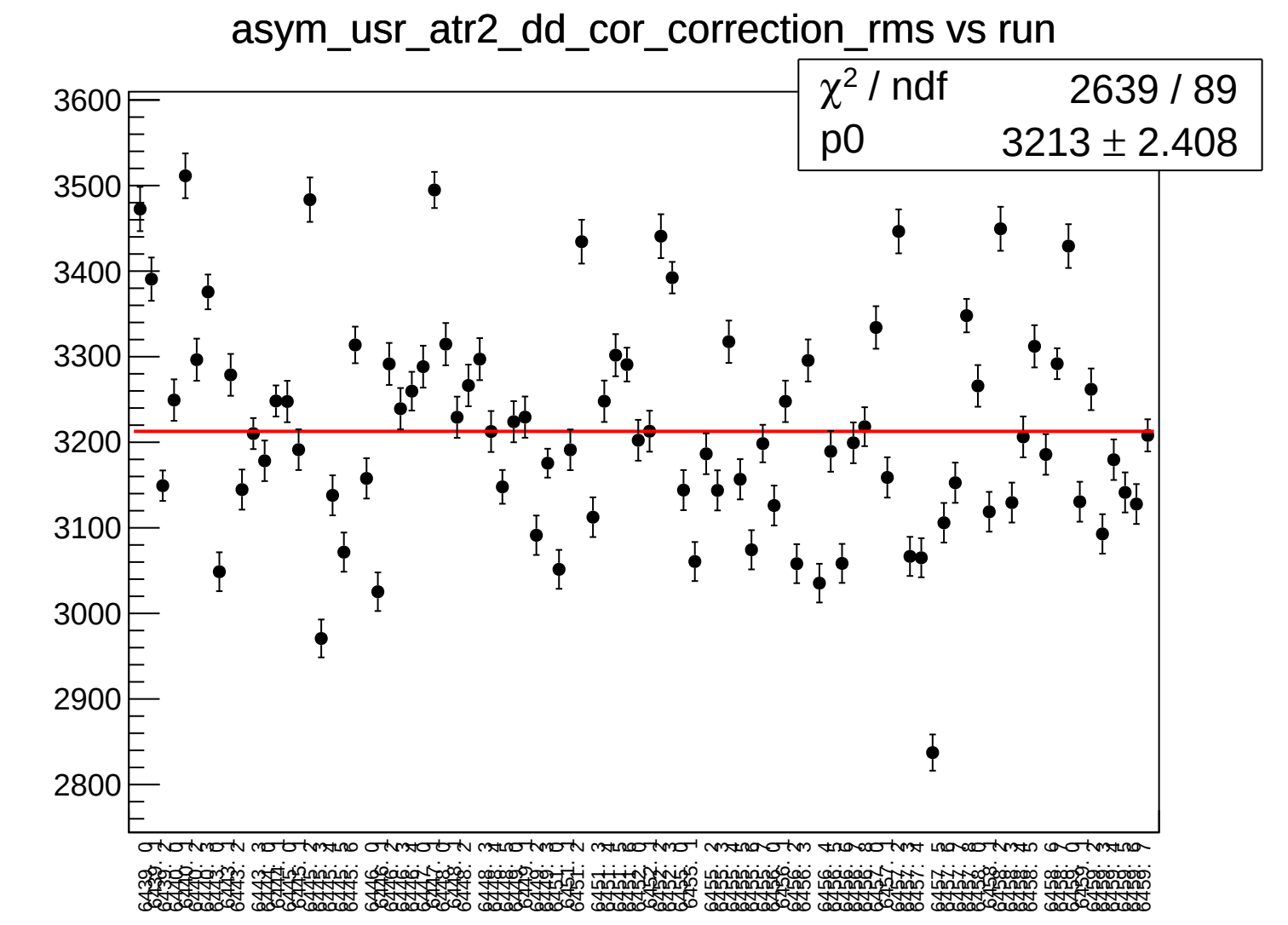

cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 76.82 / 89
p0 −779.9 ± 1255
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 90
Mean 112.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

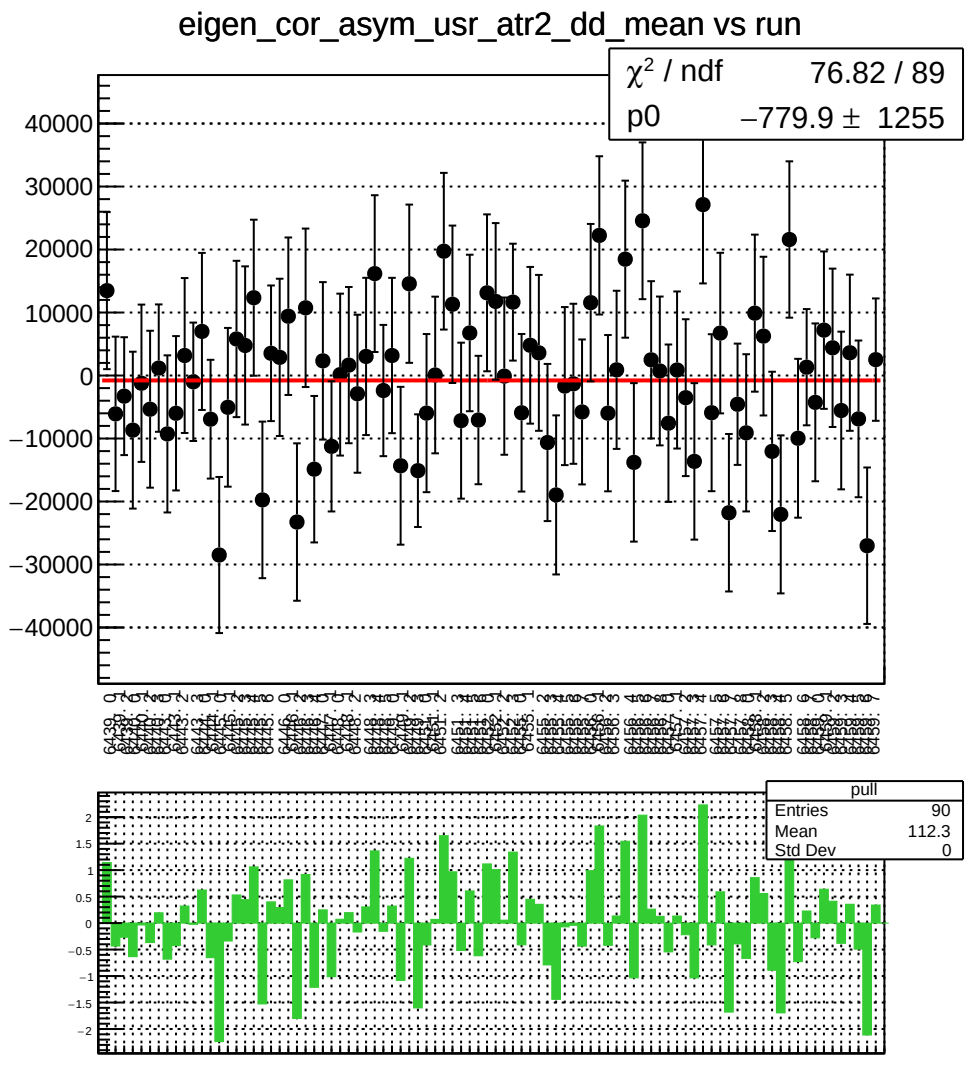

pull1D
Entries 90
Mean 0.008852
Std Dev 0.9239
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

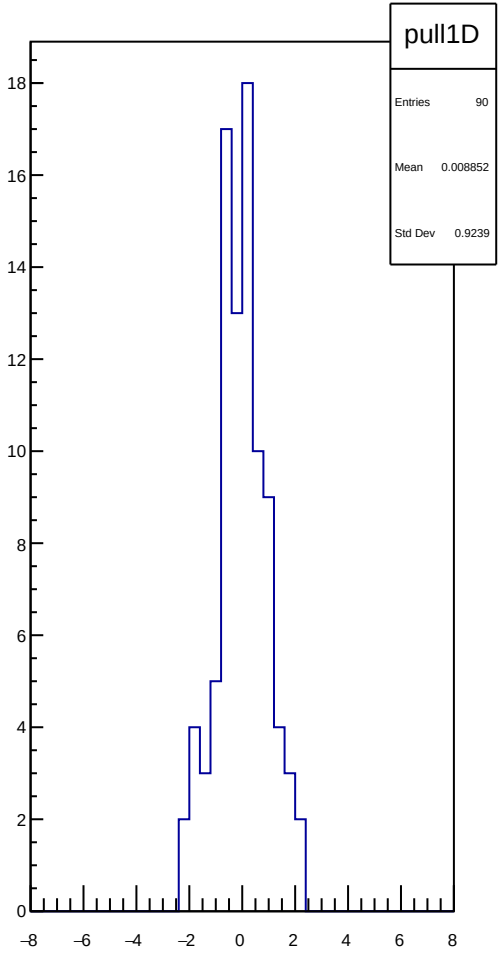

cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 129.9 / 89
p0 1185 ± 0.8875
1230
1220
1210
1200
1190
1180
1170
1160
1150

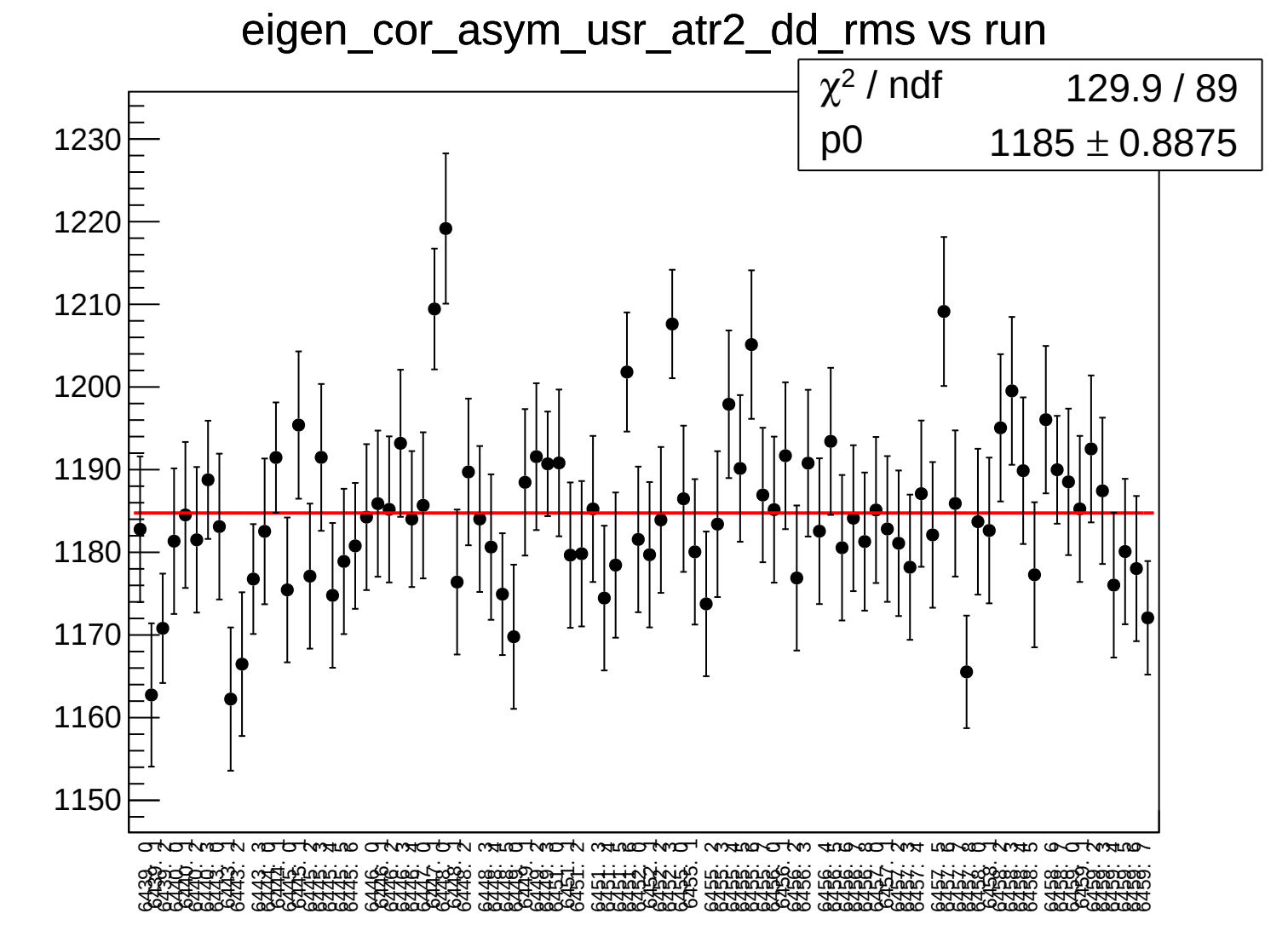

asym_usr_atr2_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 82.33 / 89
p0 4787 ± 3406
100
50
0
−50
−100
pull
Entries 90
Mean −141.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

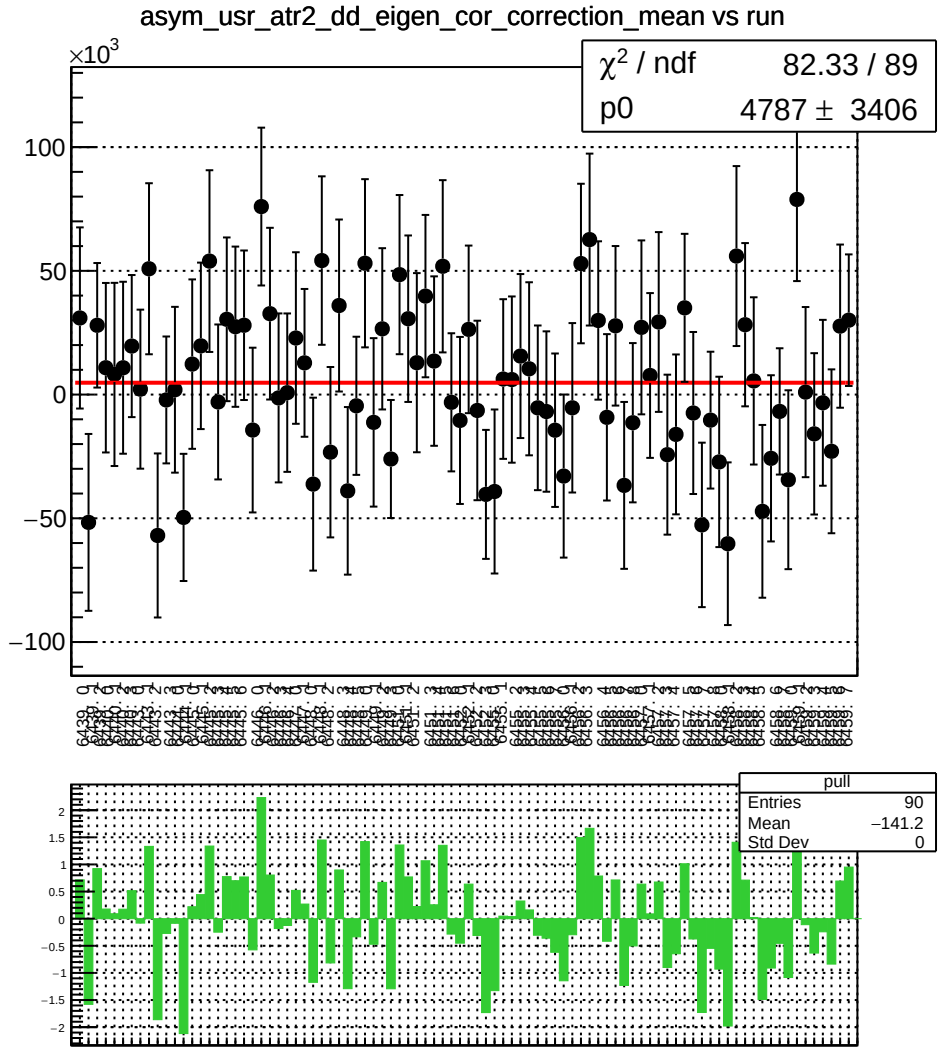

pull1D
Entries 90
Mean 0.01589
Std Dev 0.9563
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

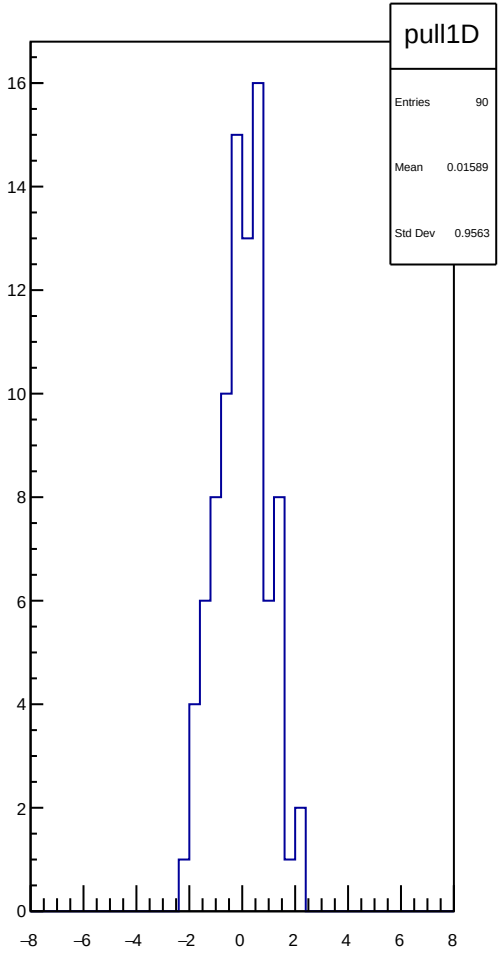

asym_usr_atr2_dd_cor_correction_rms vs run
χ² / ndf 2639 / 89
p0 3213 ± 2.408
3600
3500
3400
3300
3200
3100
3000
2900
2800

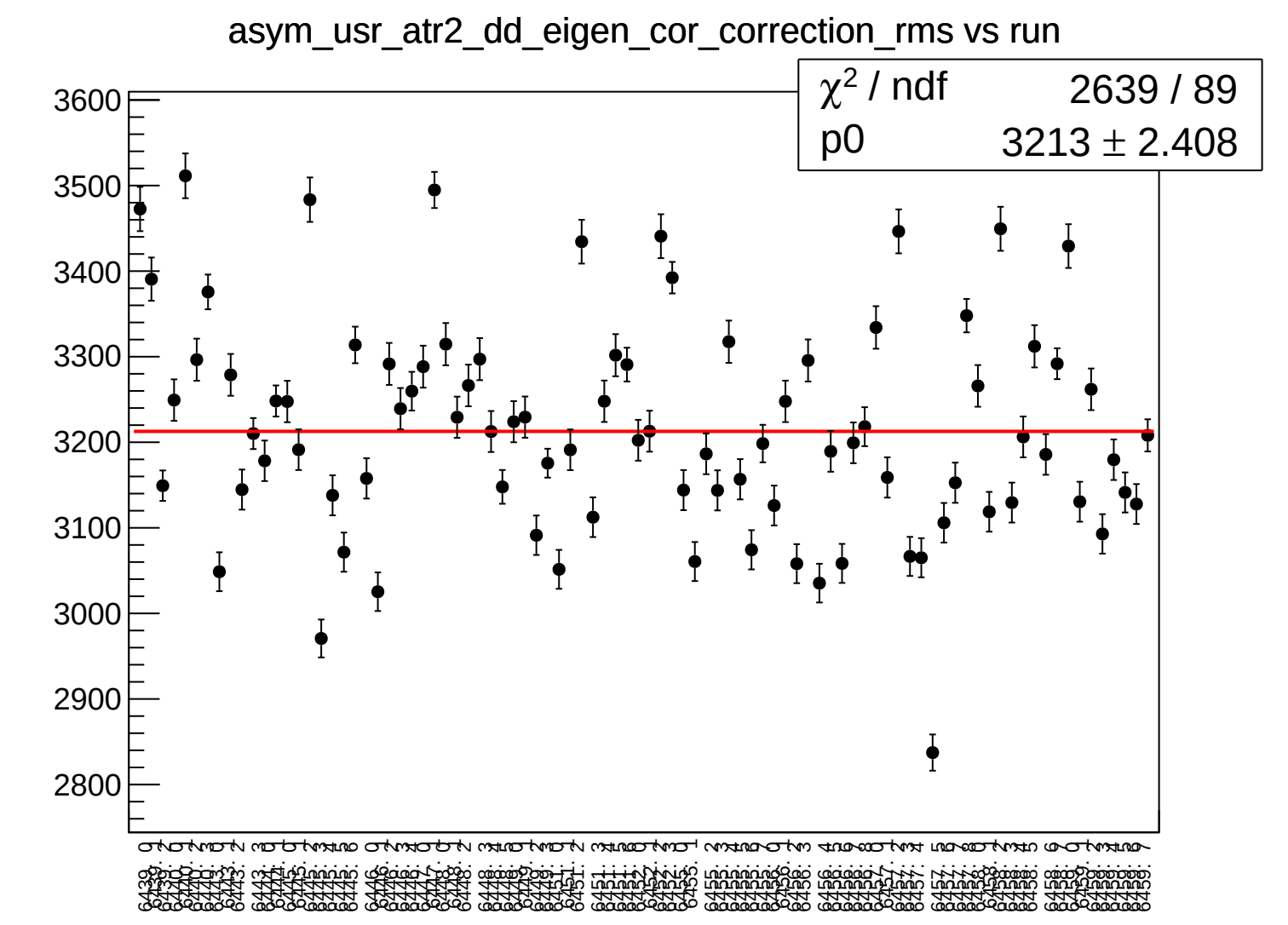

eigen_cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 76.82 / 89
p0 −779.9 ± 1255
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 90
Mean 112.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

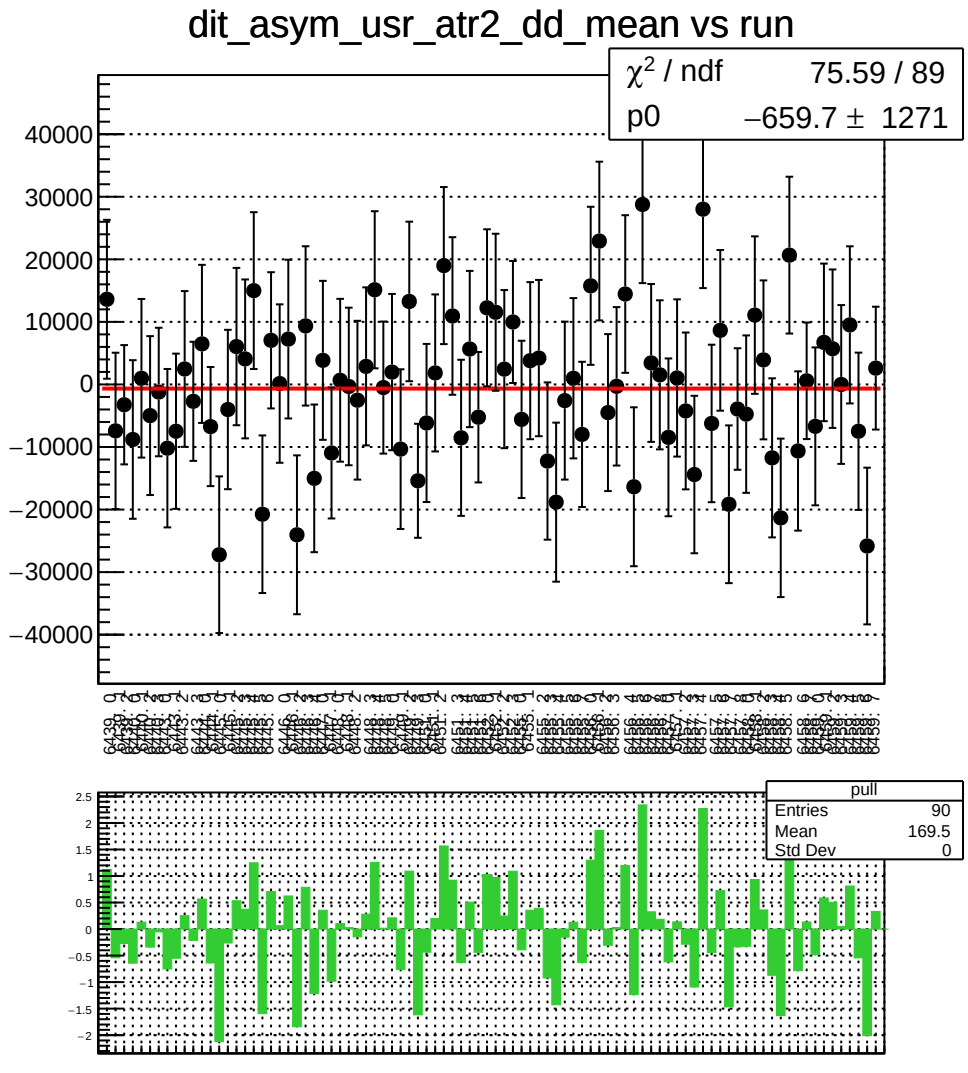

pull1D
Entries 90
Mean 0.008852
Std Dev 0.9239
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

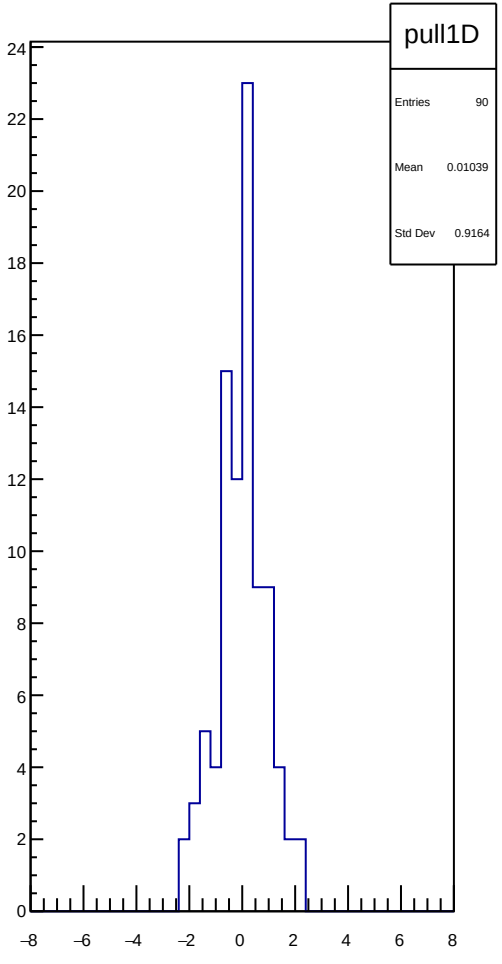

eigen_cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 129.9 / 89
p0 1185 ± 0.8875
1230
1220
1210
1200
1190
1180
1170
1160
1150

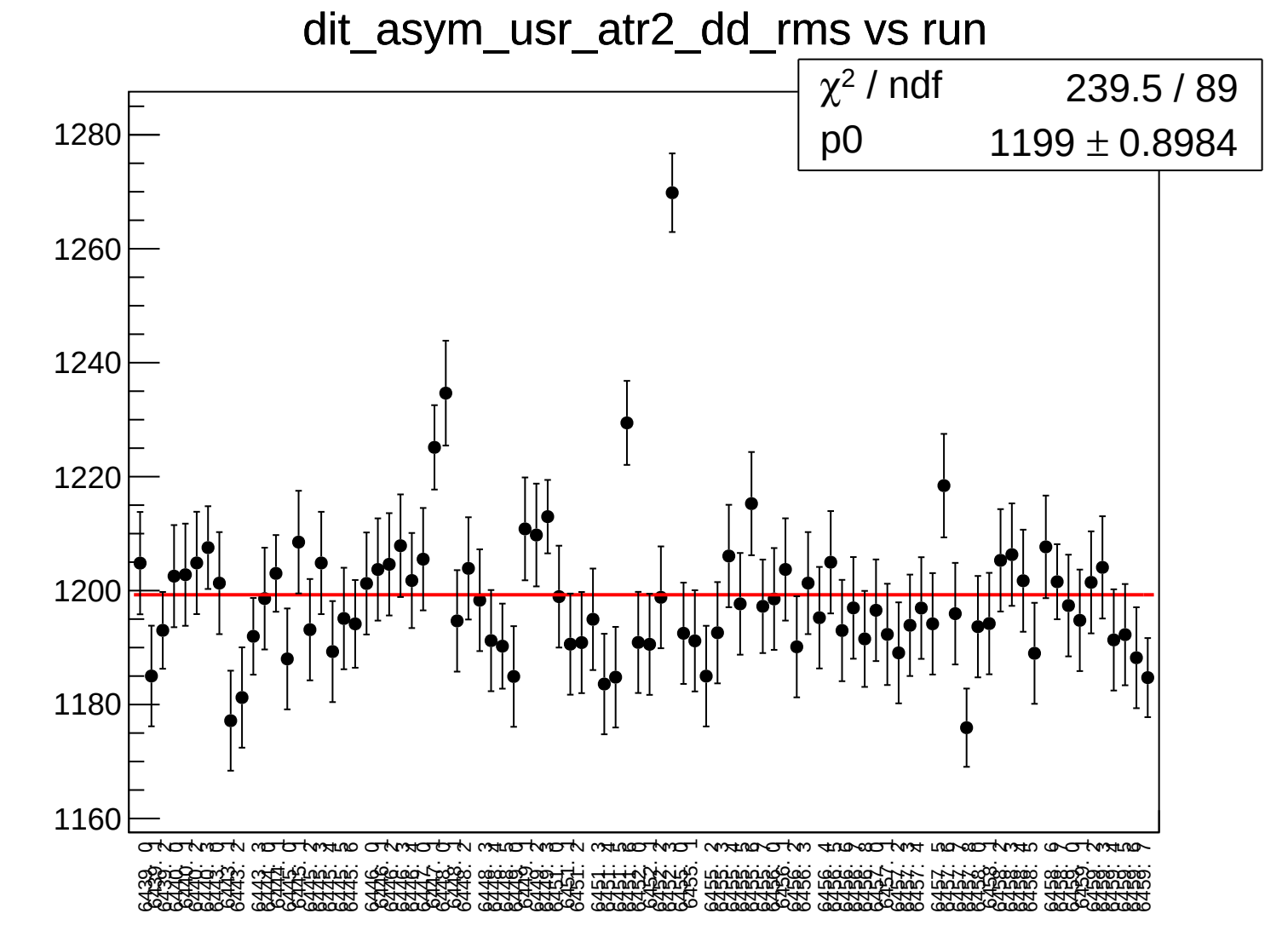

asym_usr_atr2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 82.33 / 89
p0 4787 ± 3406
100
50
0
−50
−100
pull
Entries 90
Mean −141.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

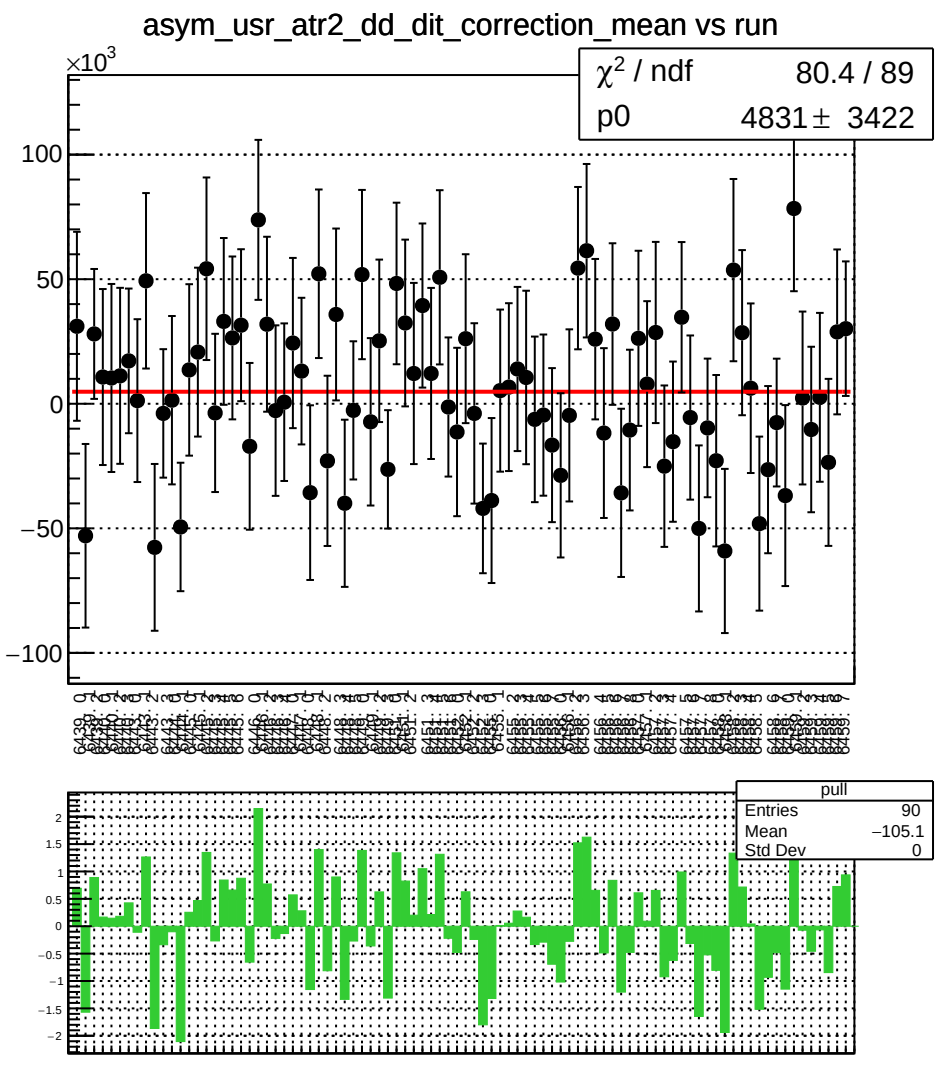

pull1D
Entries 90
Mean 0.01589
Std Dev 0.9563
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

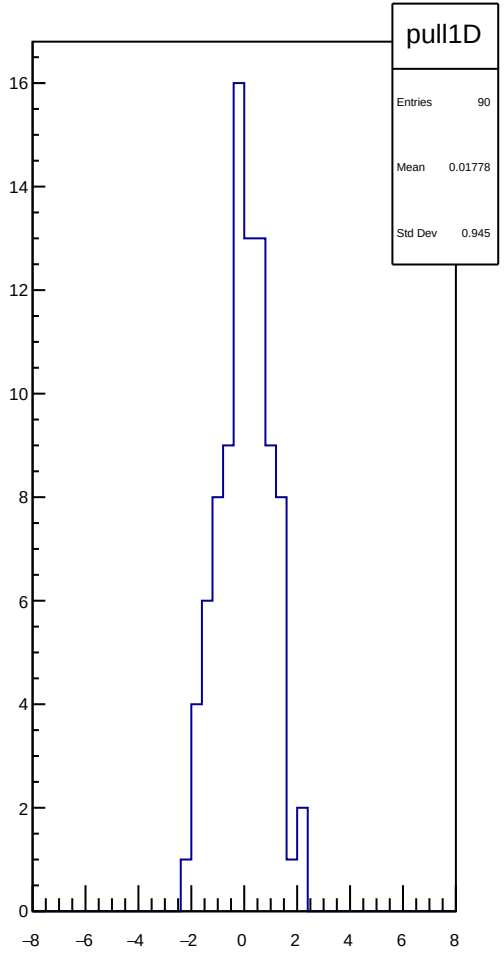

asym_usr_atr2_dd_eigen_cor_correction_rms vs run
χ² / ndf 2639 / 89
p0 3213 ± 2.408
3600
3500
3400
3300
3200
3100
3000
2900
2800

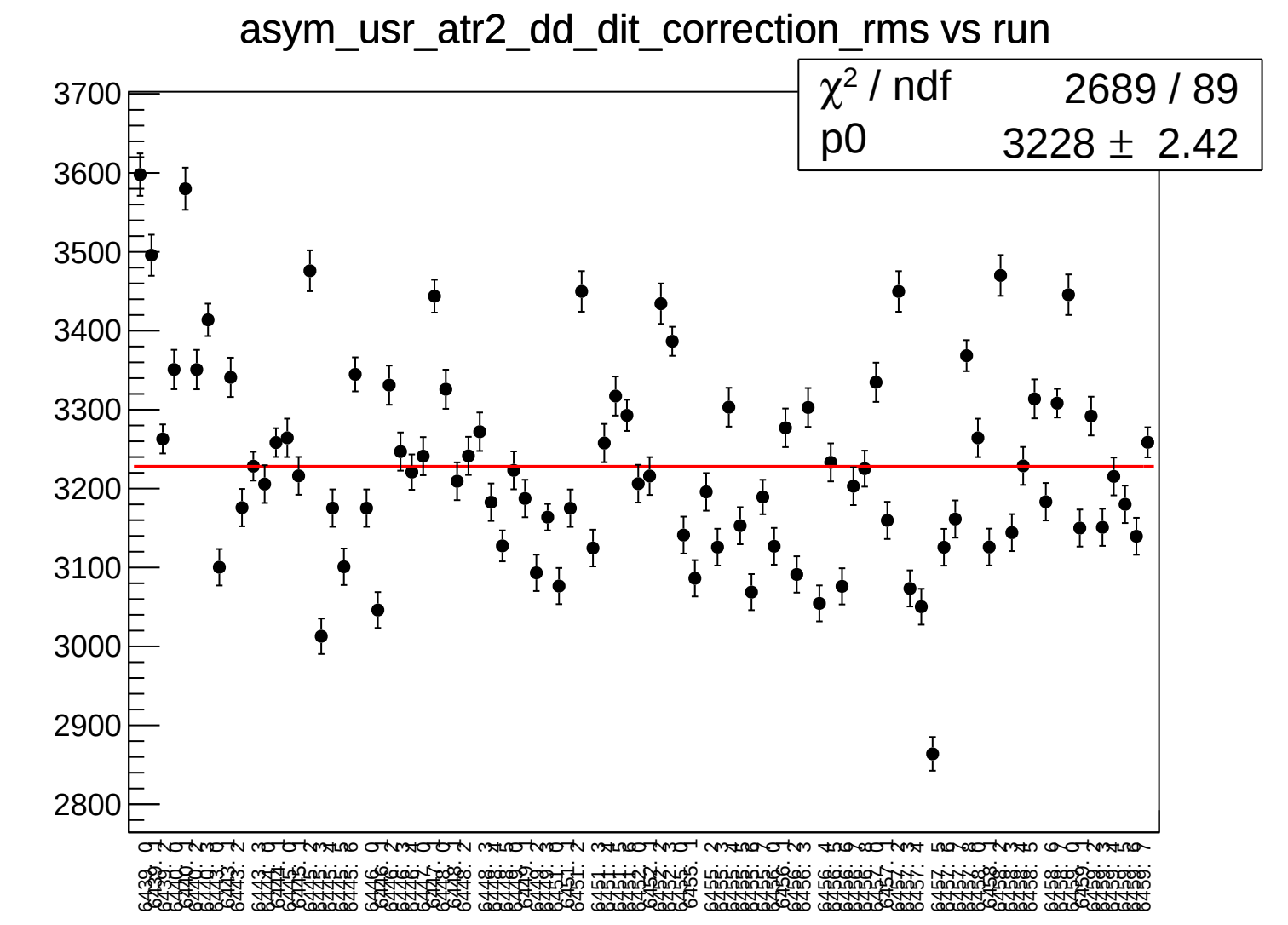

dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 75.59 / 89
p0 −659.7 ± 1271
pull
Entries 90
Mean 169.5
Std Dev 0

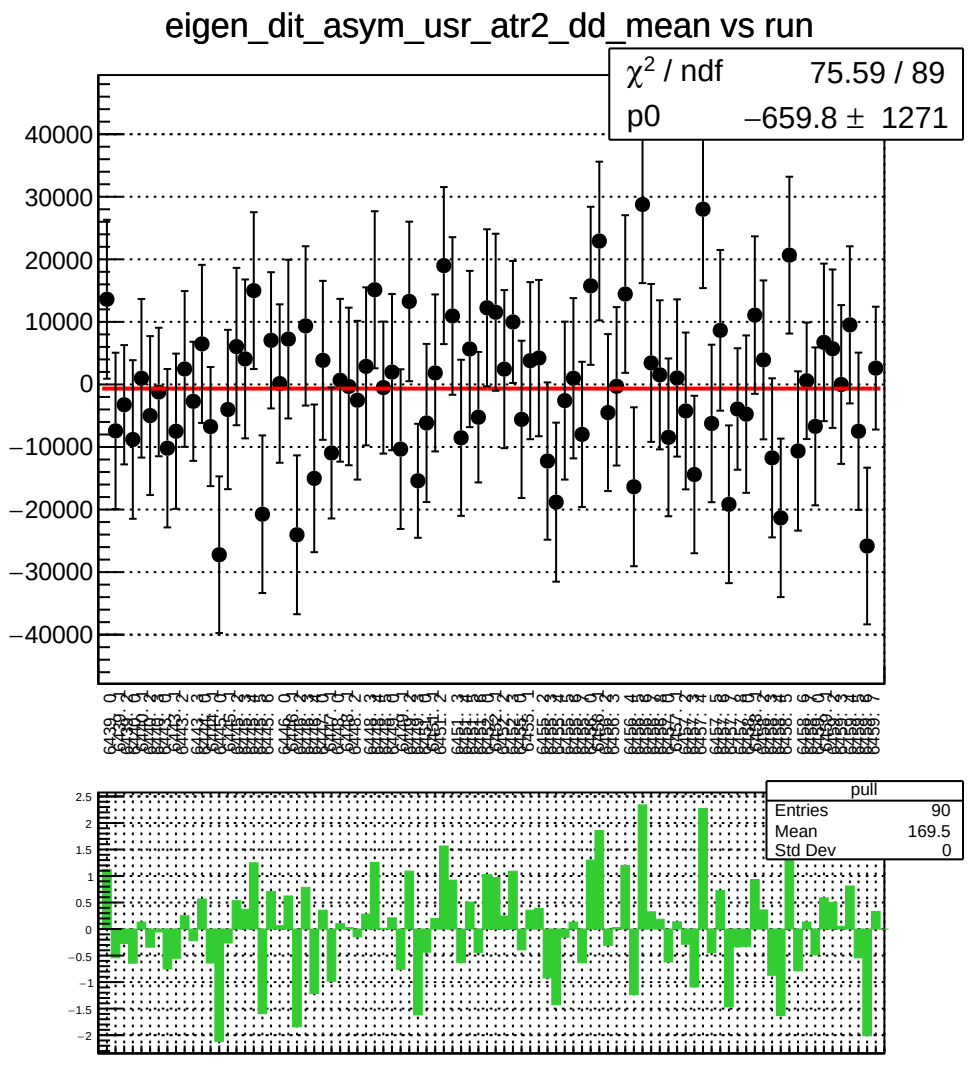

pull1D
Entries 90
Mean 0.01039
Std Dev 0.9164

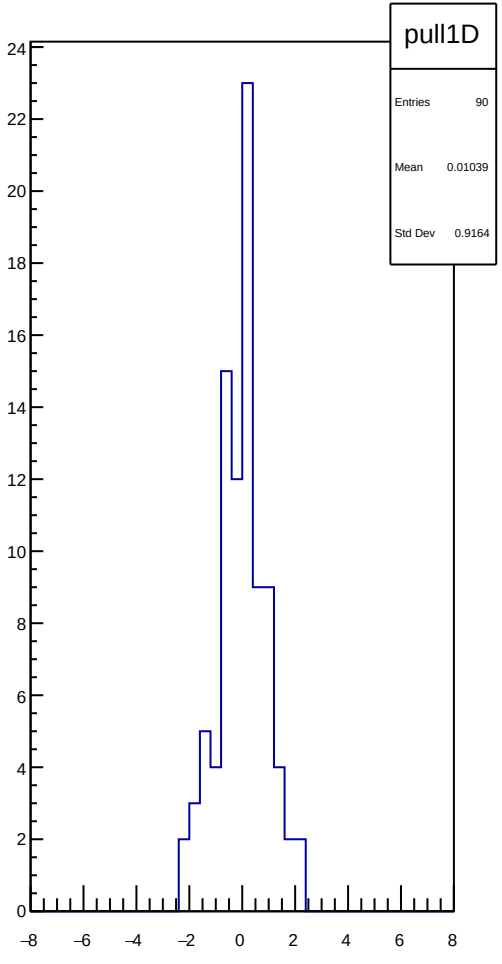

dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 239.5 / 89
p0 1199 ± 0.8984
1280
1260
1240
1220
1200
1180
1160

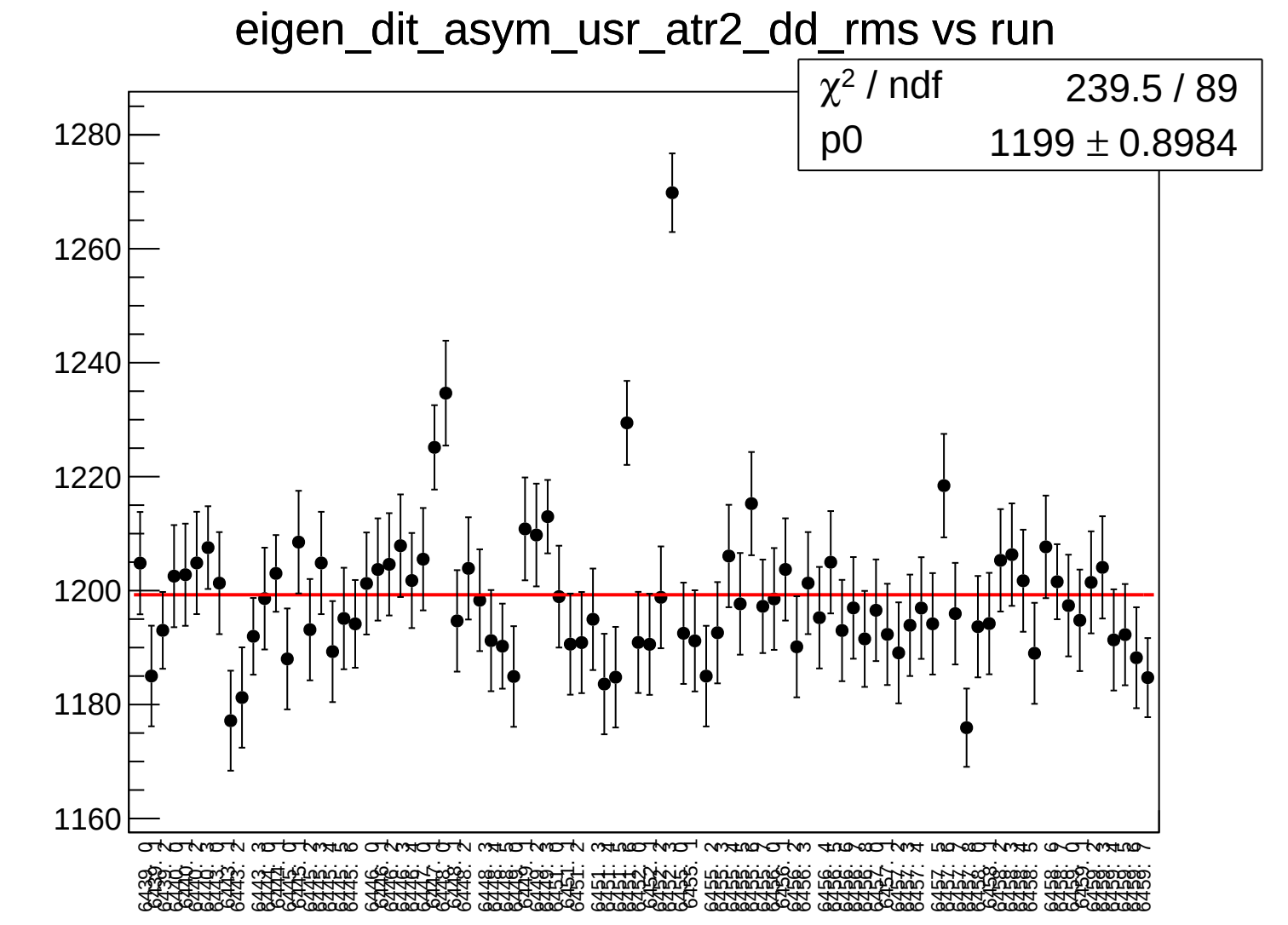

asym_usr_atr2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 80.4 / 89
p0 4831 ± 3422
100
50
0
−50
−100
pull
Entries 90
Mean −105.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

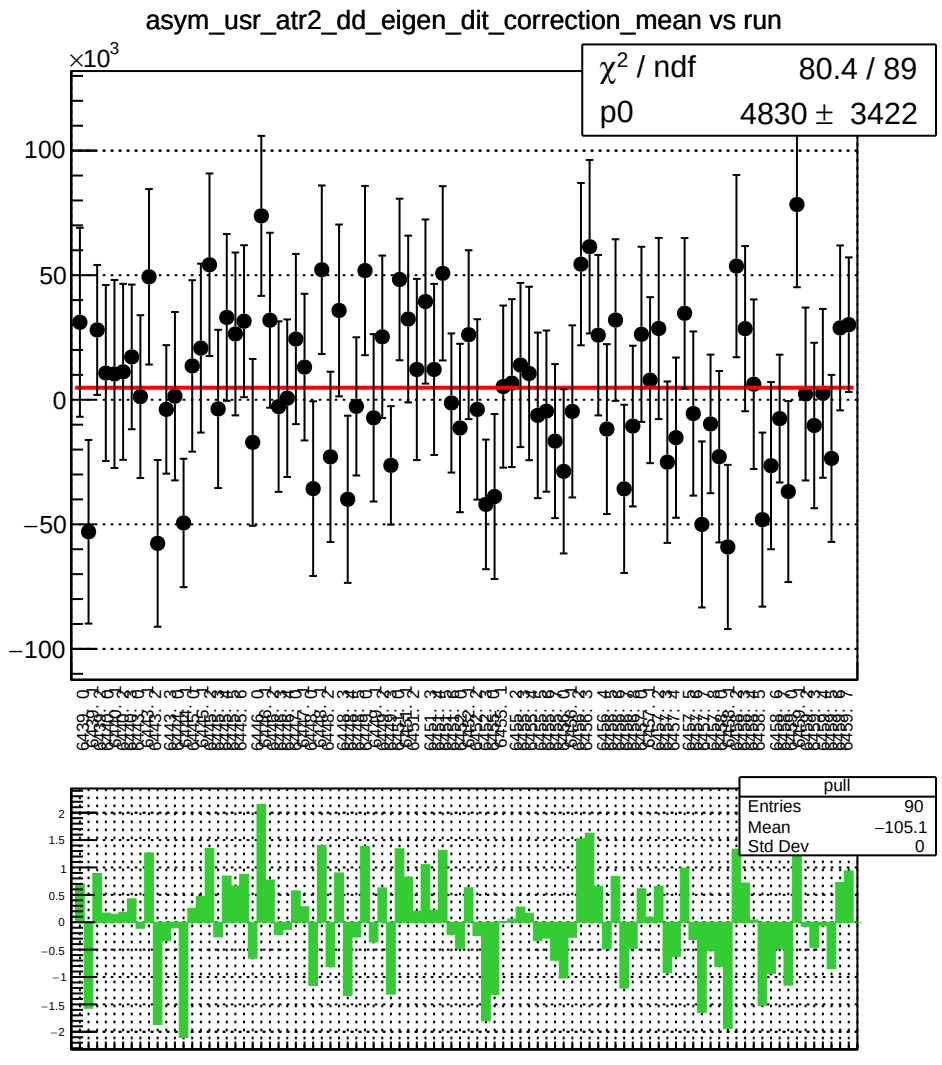

pull1D
Entries 90
Mean 0.01778
Std Dev 0.945
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

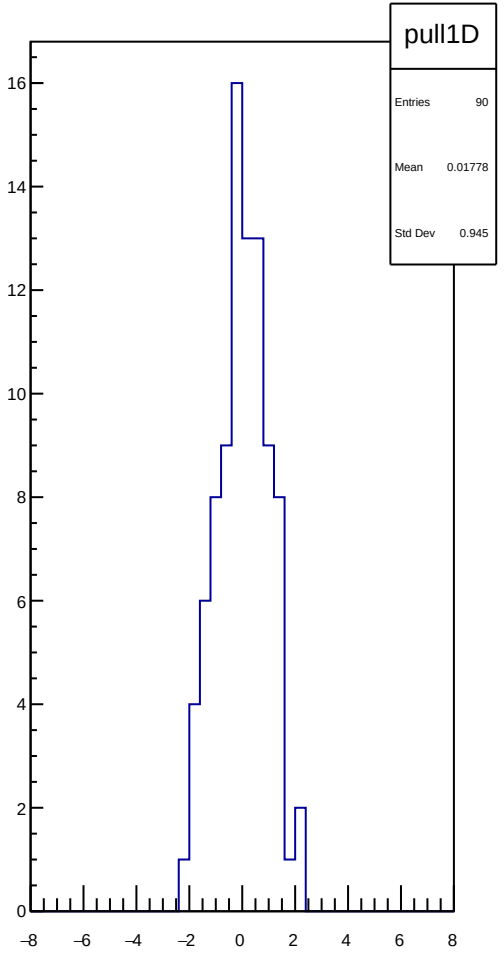

asym_usr_atr2_dd_dit_correction_rms vs run
χ² / ndf 2689 / 89
p0 3228 ± 2.42
3700
3600
3500
3400
3300
3200
3100
3000
2900
2800

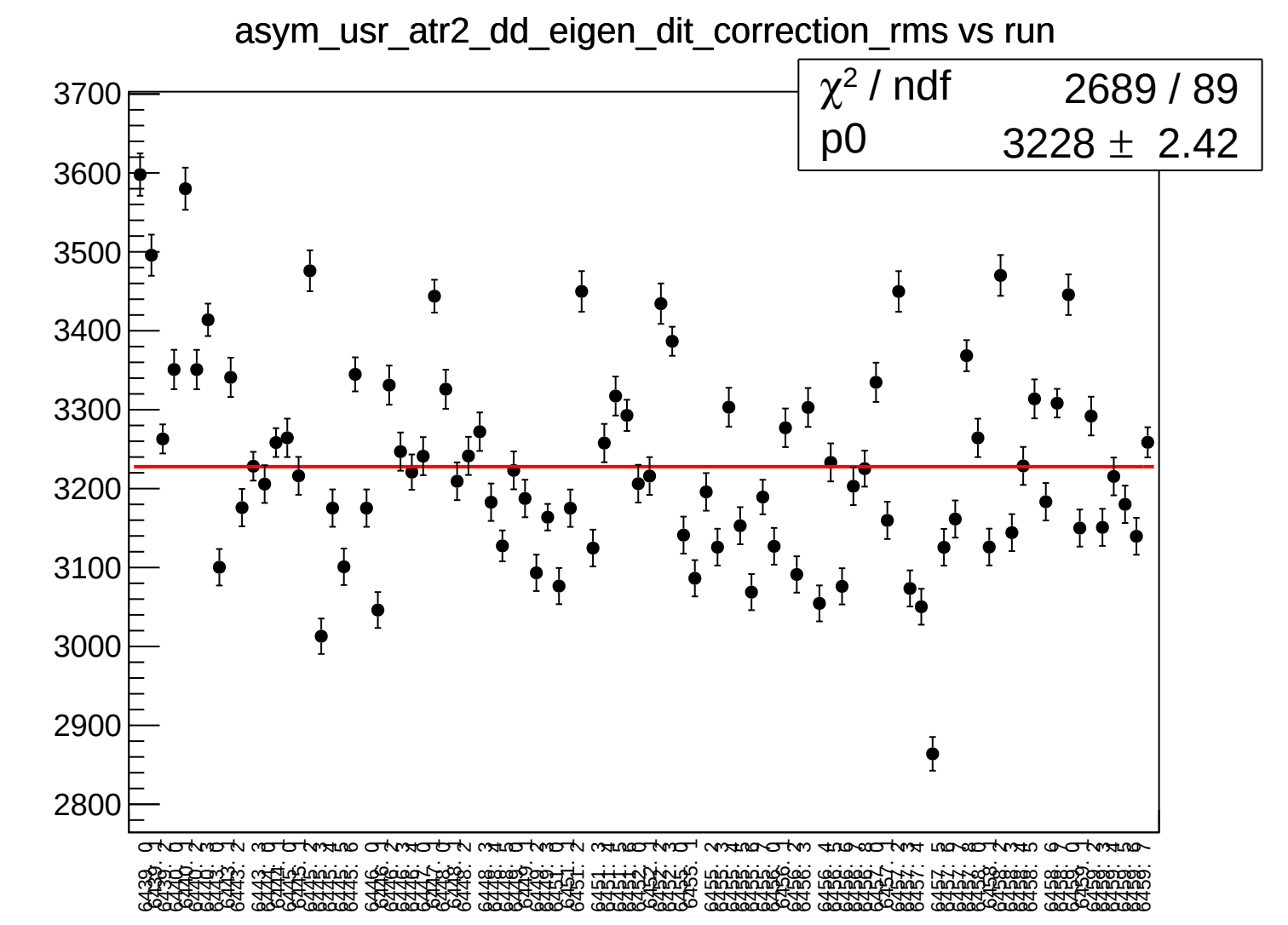

eigen_dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 75.59 / 89
p0 −659.8 ± 1271
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 90
Mean 169.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

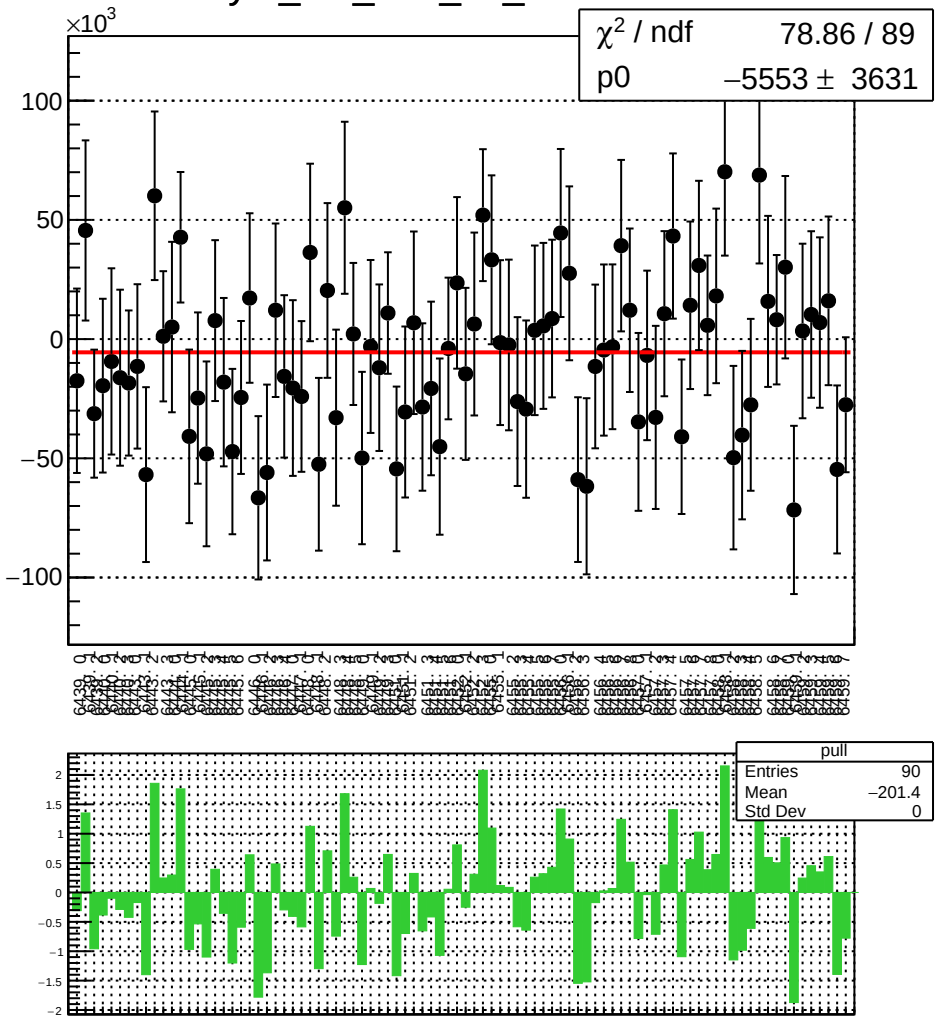

pull1D
Entries 90
Mean 0.01039
Std Dev 0.9164
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

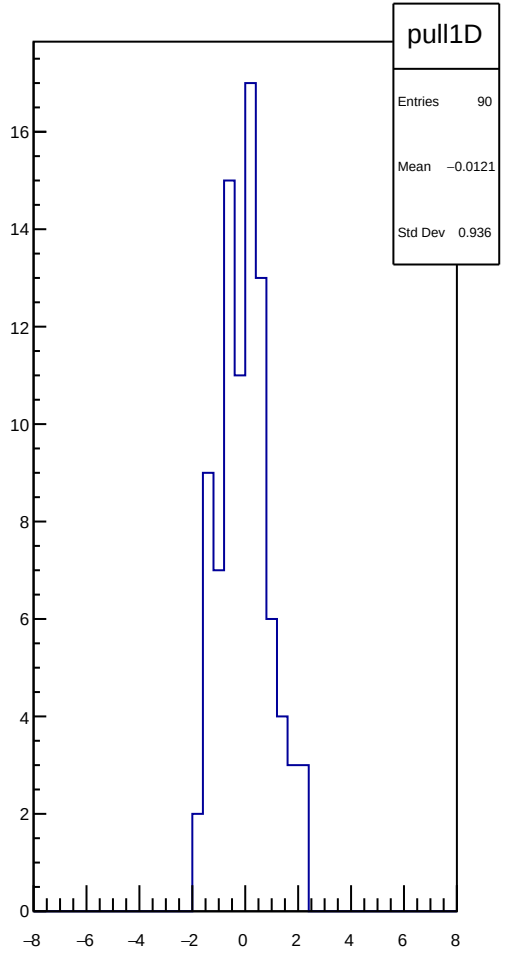

eigen_dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 239.5 / 89
p0 1199 ± 0.8984
1280
1260
1240
1220
1200
1180
1160

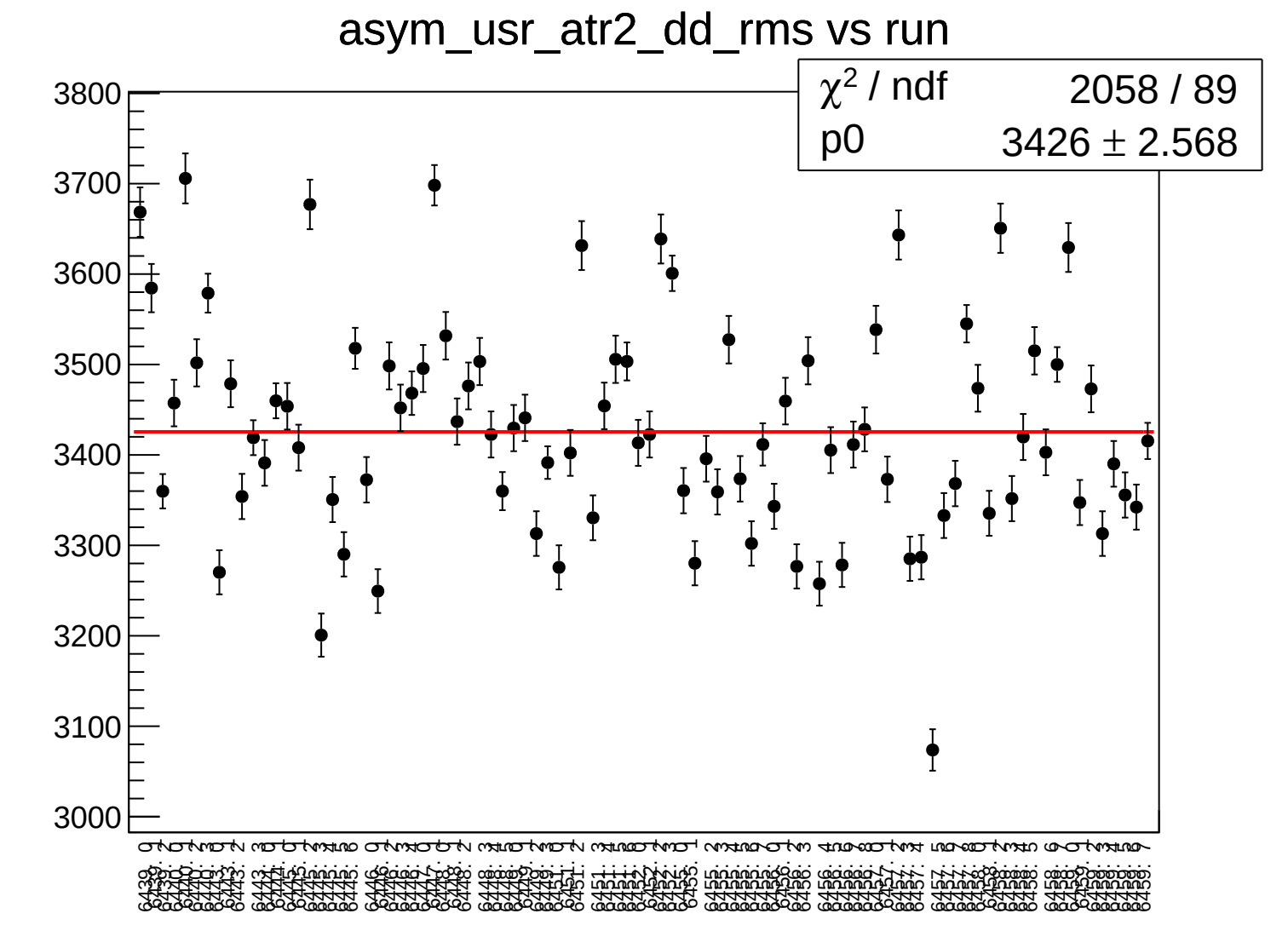

asym_usr_atr2_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 80.4 / 89
p0 4830 ± 3422
100
50
0
−50
−100
pull
Entries 90
Mean −105.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

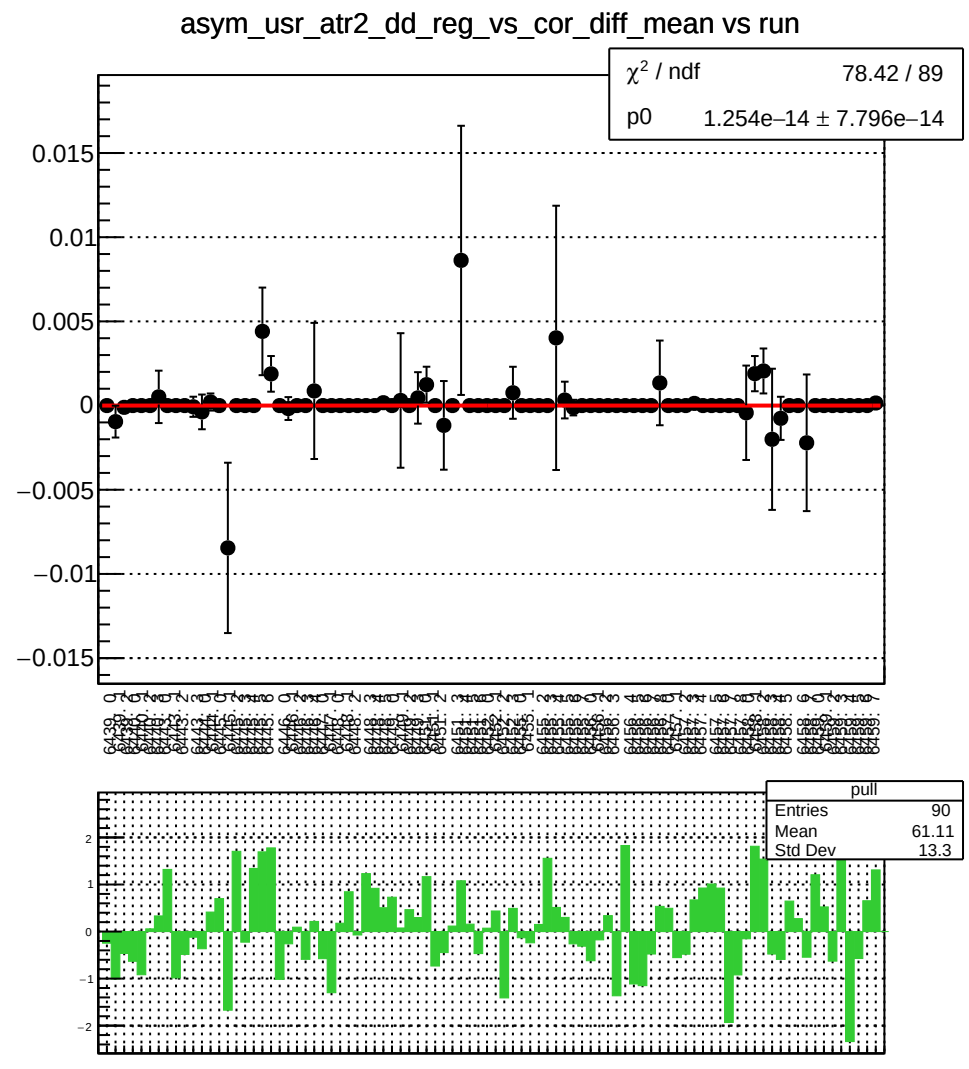

pull1D
Entries 90
Mean 0.01778
Std Dev 0.945
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

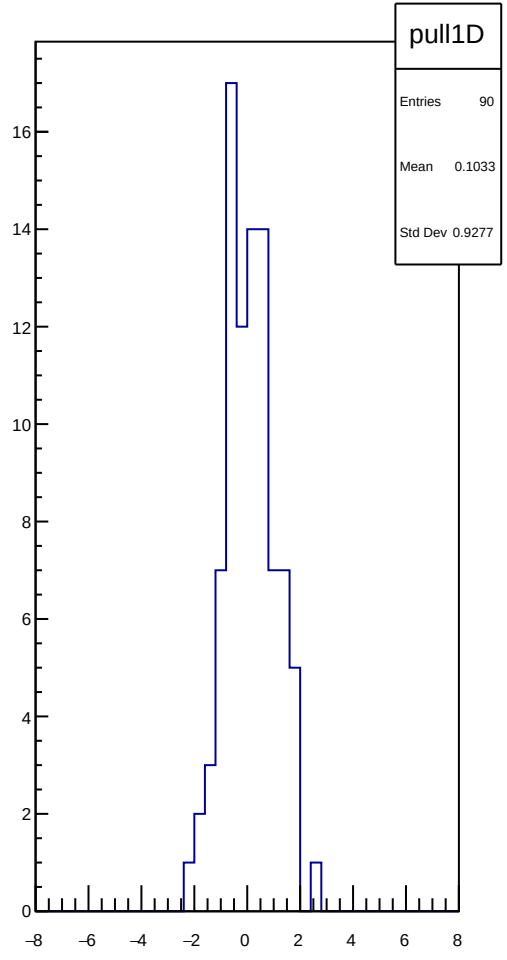

asym_usr_atr2_dd_eigen_dit_correction_rms vs run
χ² / ndf 2689 / 89
p0 3228 ± 2.42
3700
3600
3500
3400
3300
3200
3100
3000
2900
2800

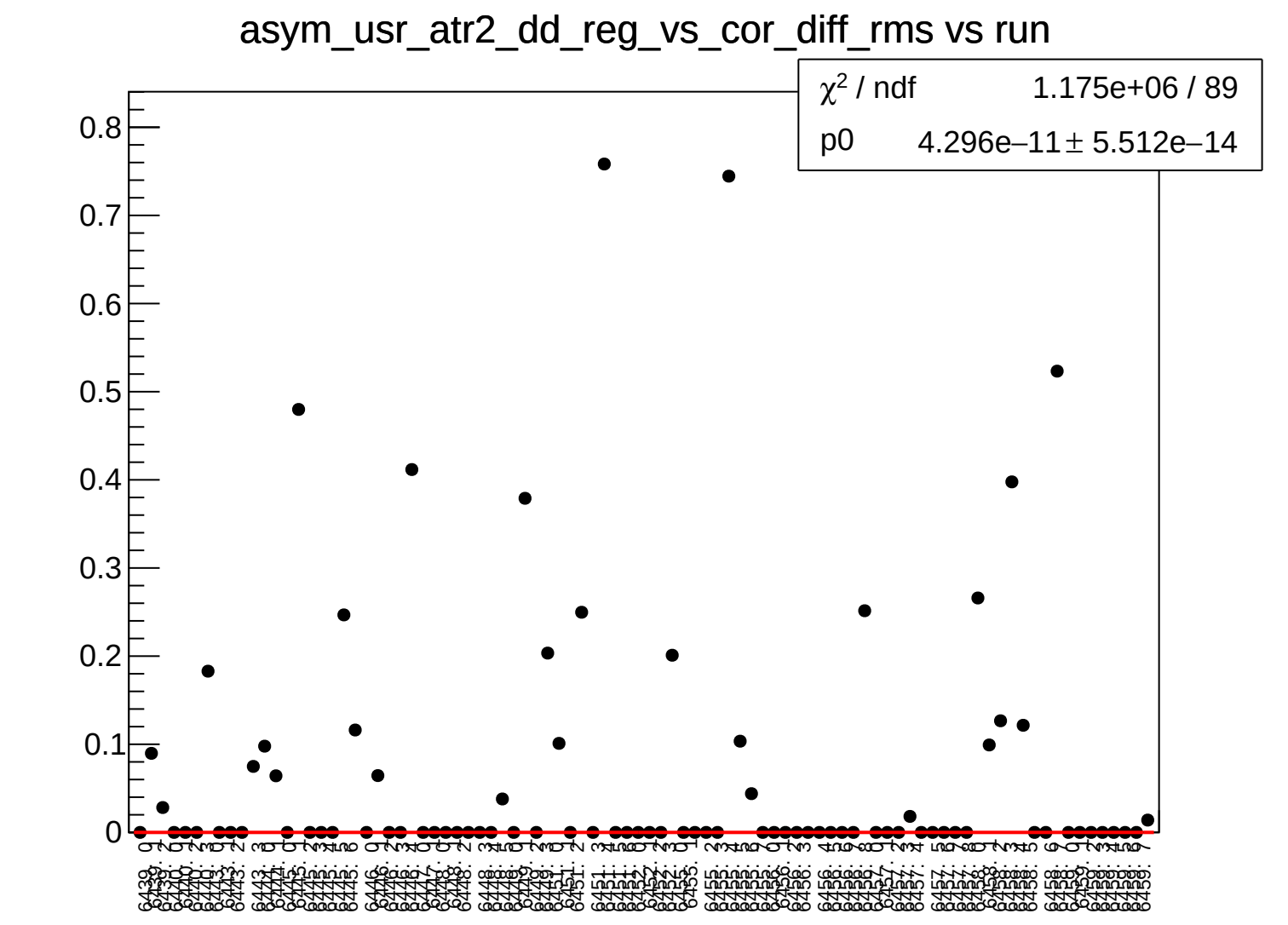

asym_usr_atr2_dd_mean vs run
×10^3
χ² / ndf 78.86 / 89
p0 −5553 ± 3631
100
50
0
−50
−100
pull
Entries 90
Mean −201.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

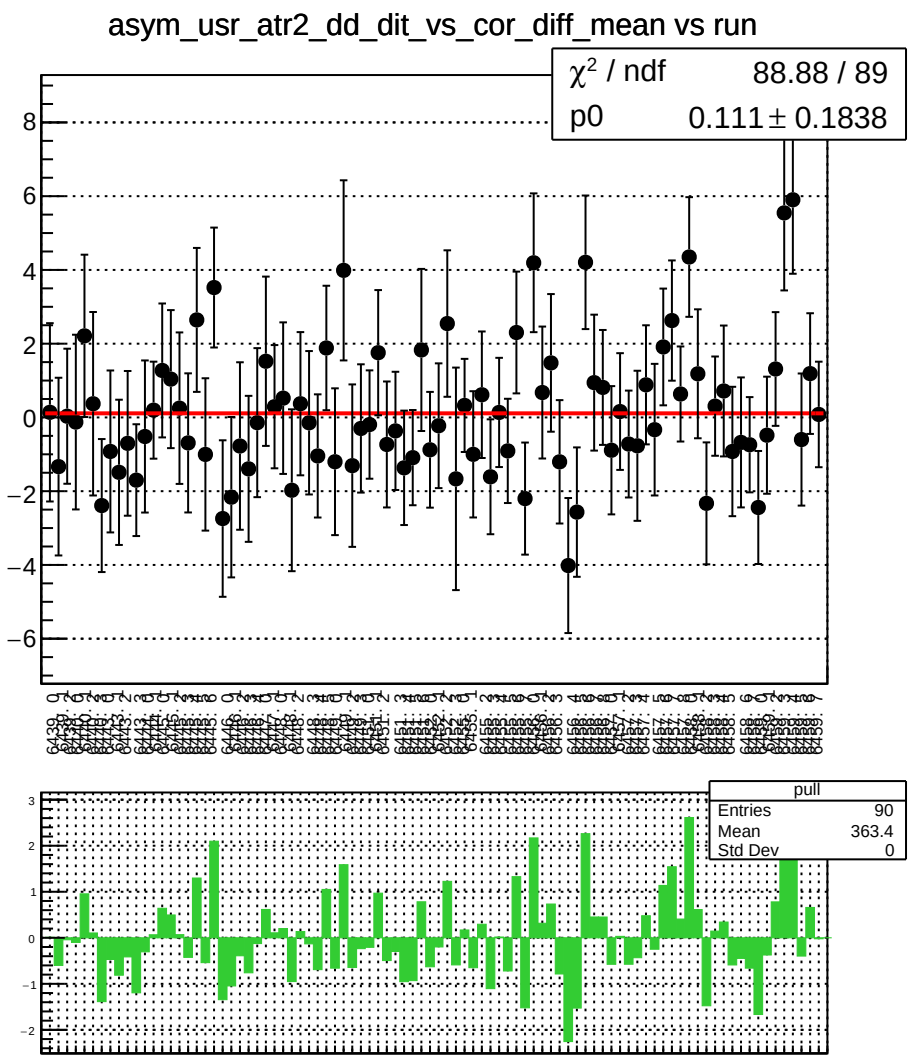

pull1D
Entries 90
Mean −0.0121
Std Dev 0.936
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

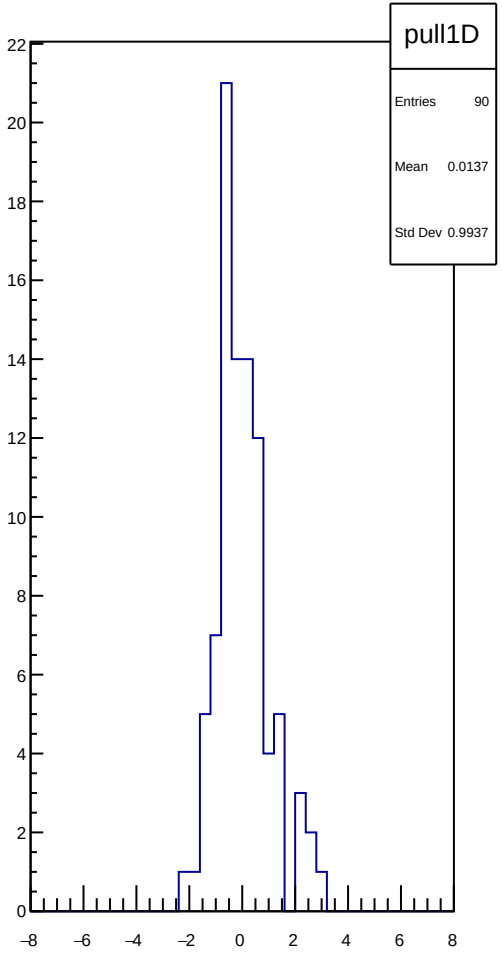

asym_usr_atr2_dd_rms vs run
χ² / ndf 2058 / 89
p0 3426 ± 2.568
3800
3700
3600
3500
3400
3300
3200
3100
3000

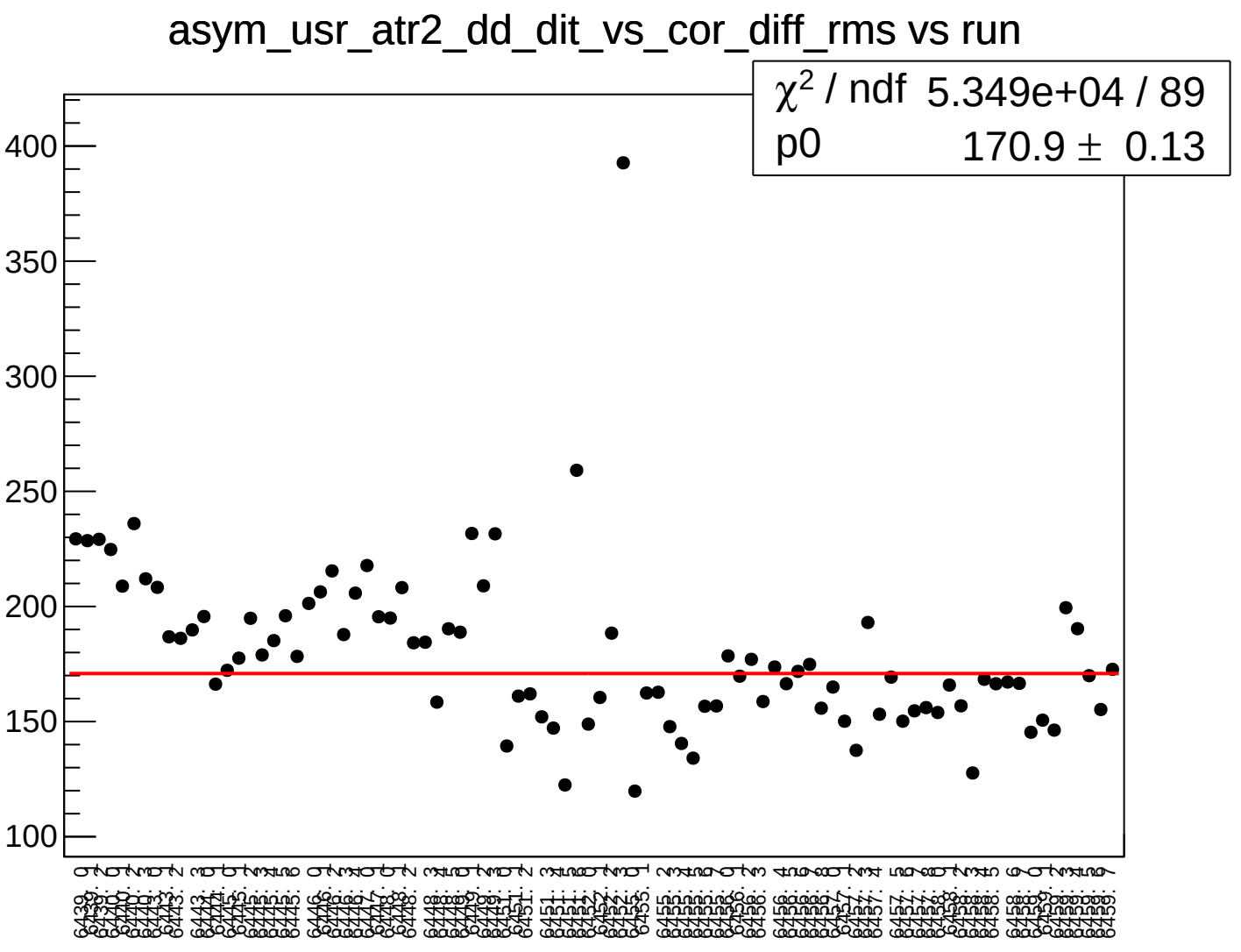

asym_usr_atr2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 78.42 / 89
p0 1.254e−14 ± 7.796e−14
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 90
Mean 61.11
Std Dev 13.3
2
1
0
−1
−2

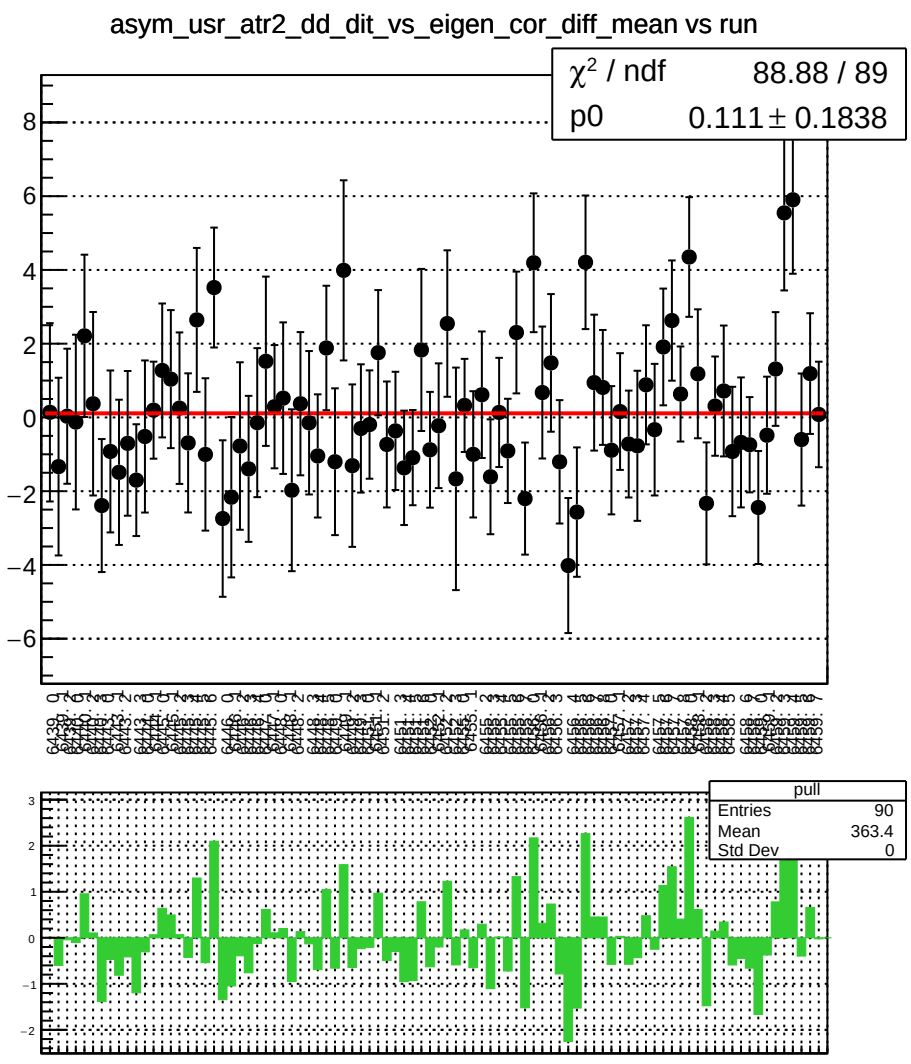

pull1D
Entries 90
Mean 0.1033
Std Dev 0.9277
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

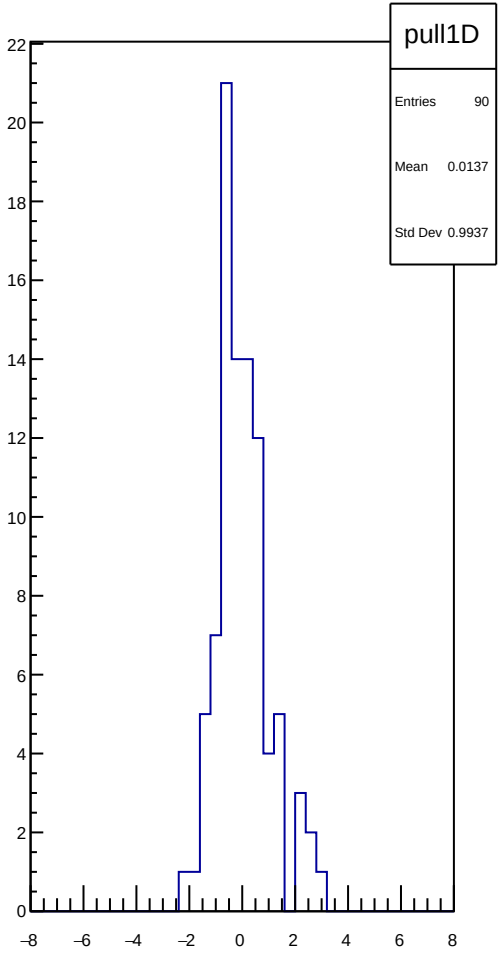

asym_usr_atr2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.175e+06 / 89
p0 4.296e−11 ± 5.512e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

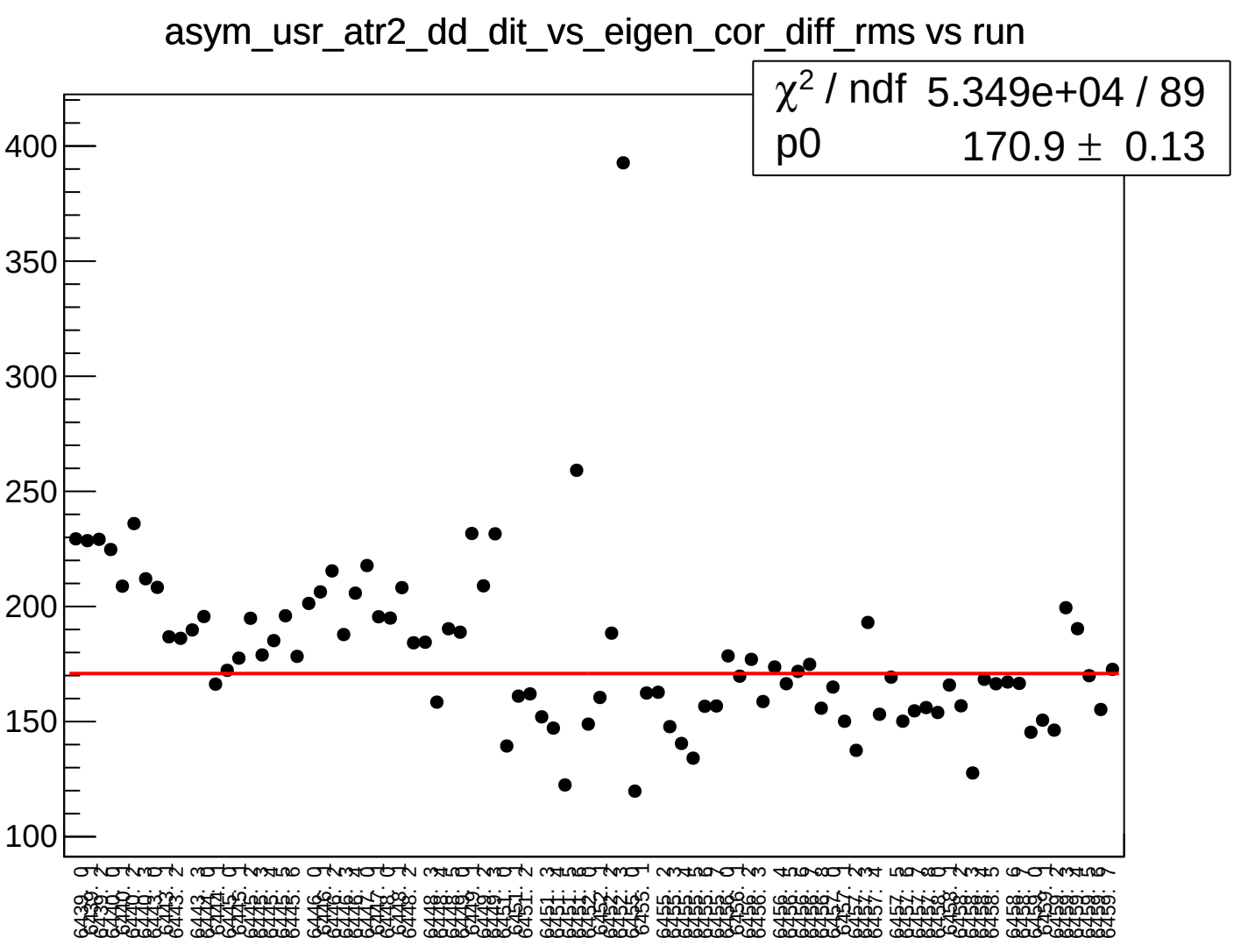

asym_usr_atr2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 88.88 / 89
p0 0.111 ± 0.1838
pull
Entries 90
Mean 363.4
Std Dev 0

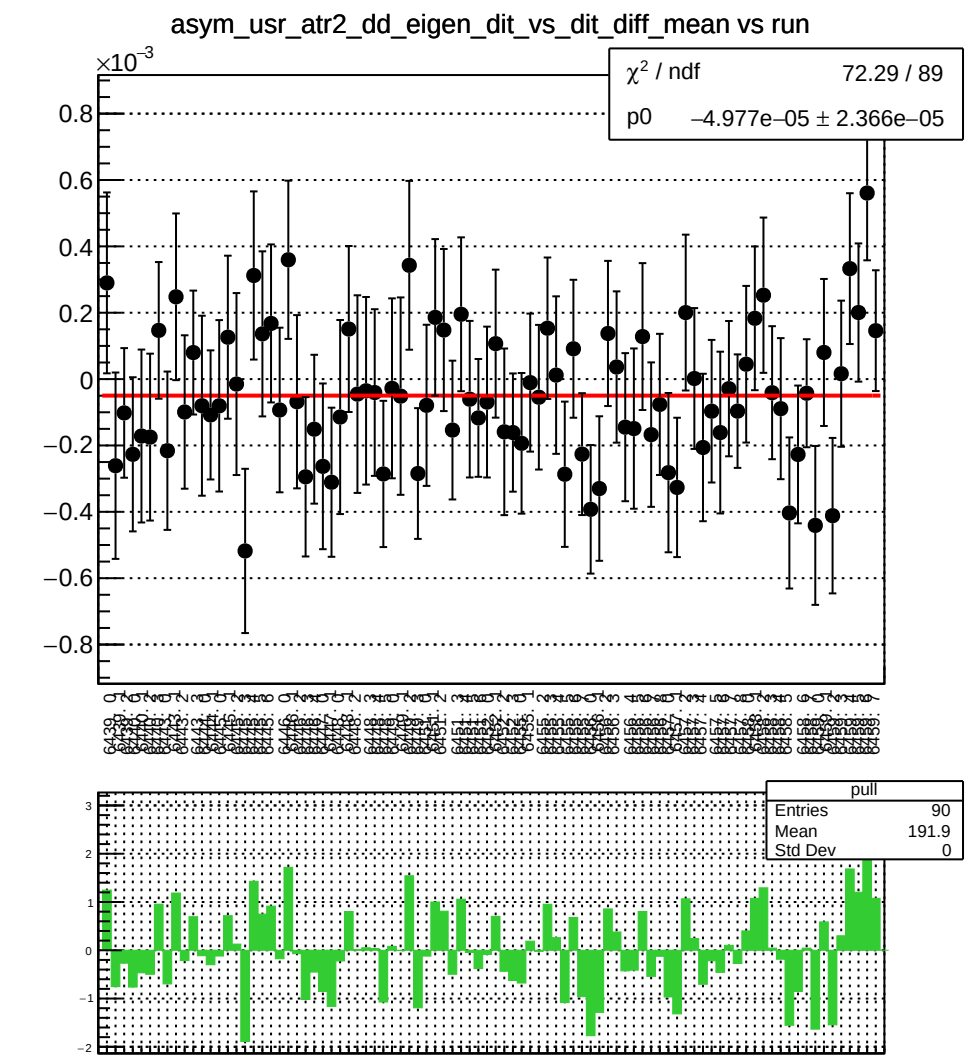

pull1D
Entries 90
Mean 0.0137
Std Dev 0.9937

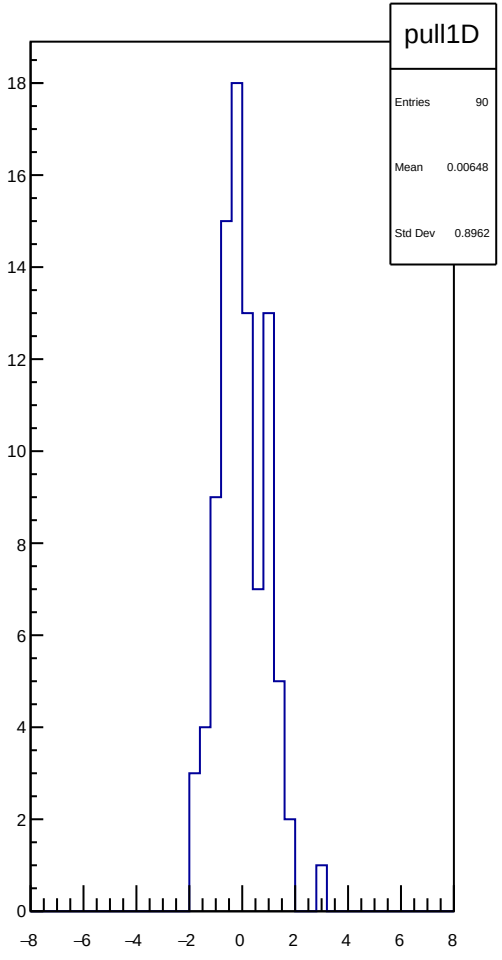

asym_usr_atr2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.349e+04 / 89
p0 170.9 ± 0.13
400
350
300
250
200
150
100

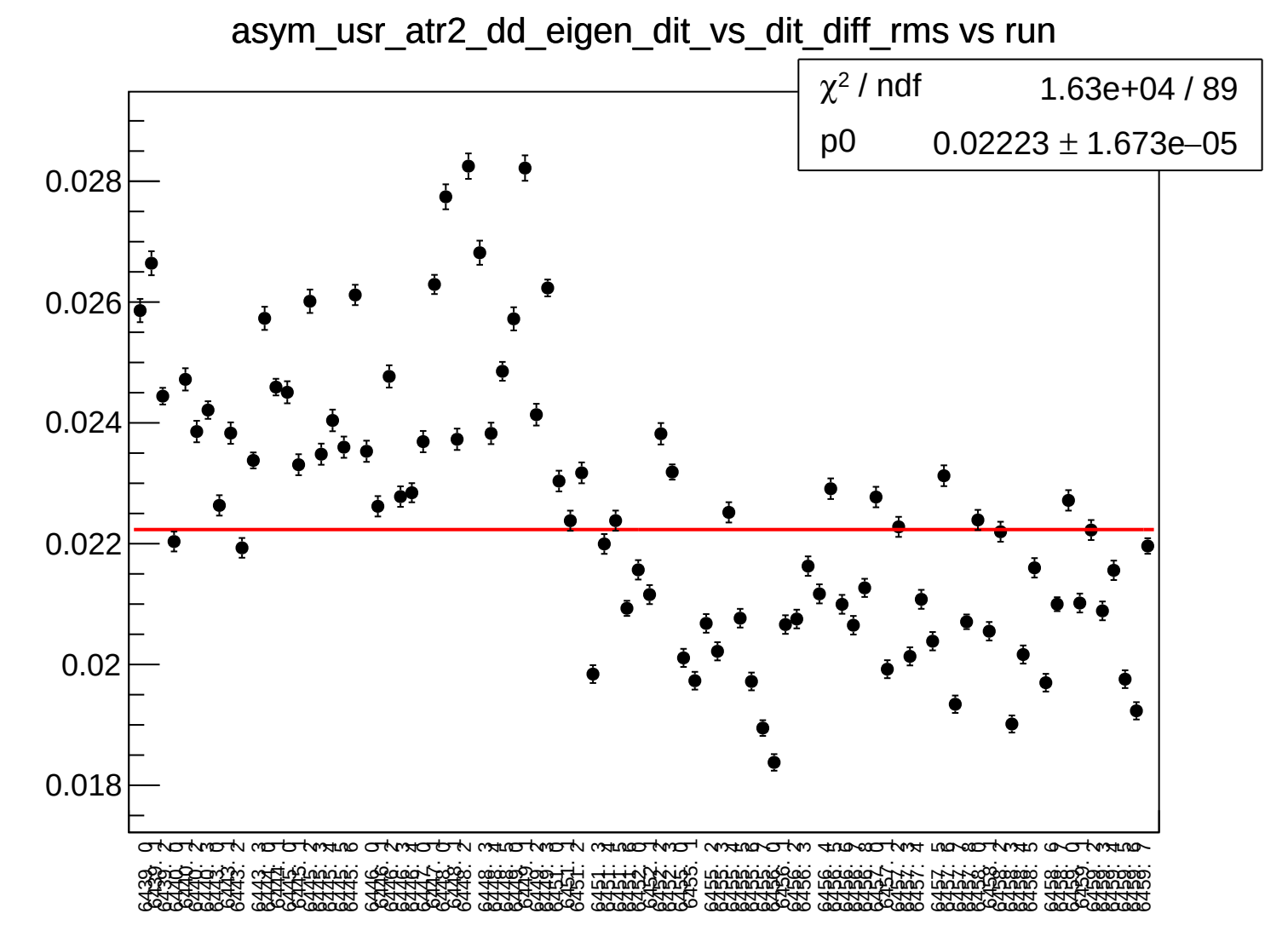

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.88 / 89
p0 0.111 ± 0.1838
pull
Entries 90
Mean 363.4
Std Dev 0

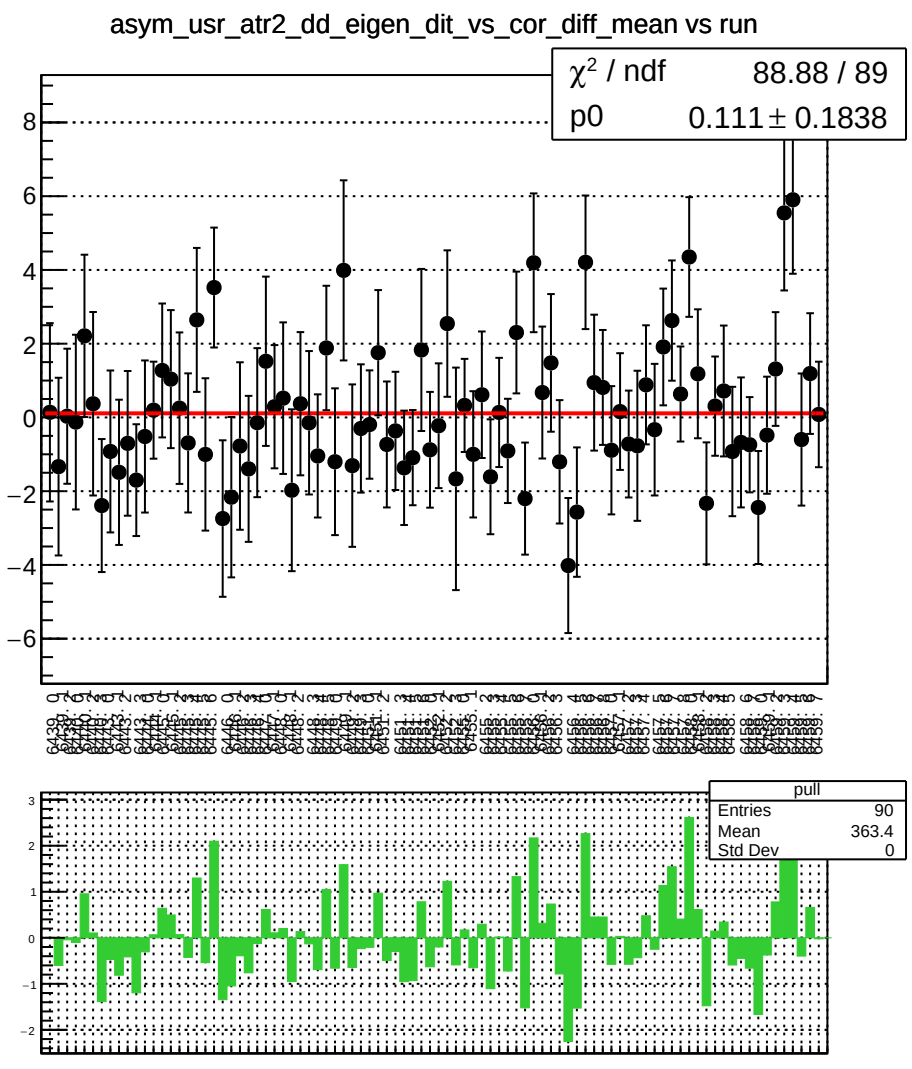

pull1D
Entries 90
Mean 0.0137
Std Dev 0.9937

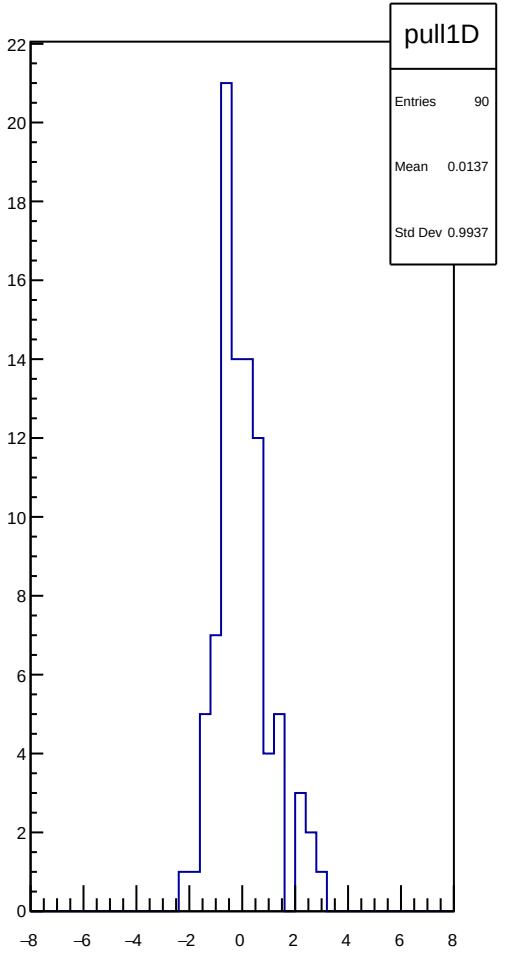

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.349e+04 / 89
p0 170.9 ± 0.13
400
350
300
250
200
150
100

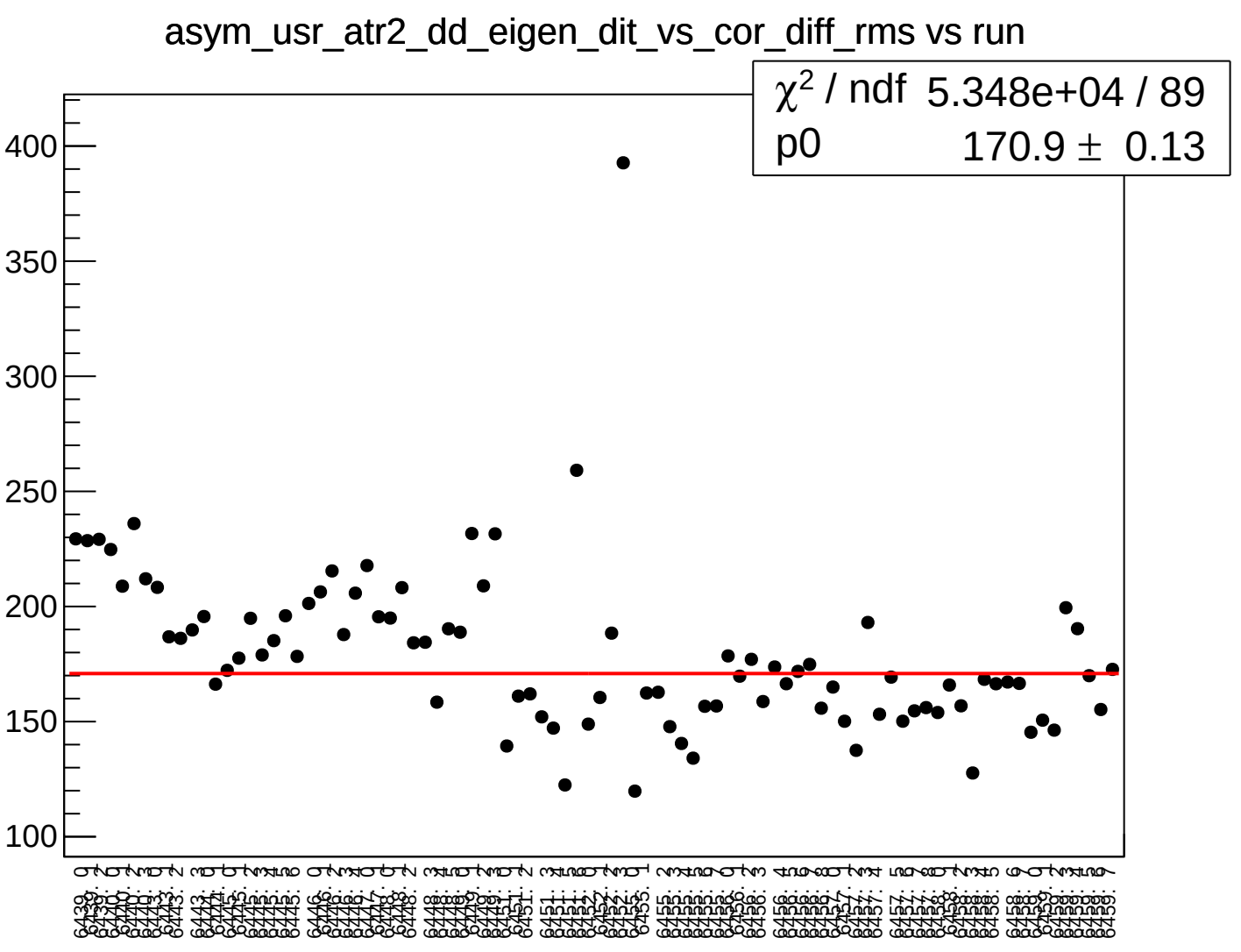

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 72.29 / 89
p0 −4.977e−05 ± 2.366e−05
pull
Entries 90
Mean 191.9
Std Dev 0

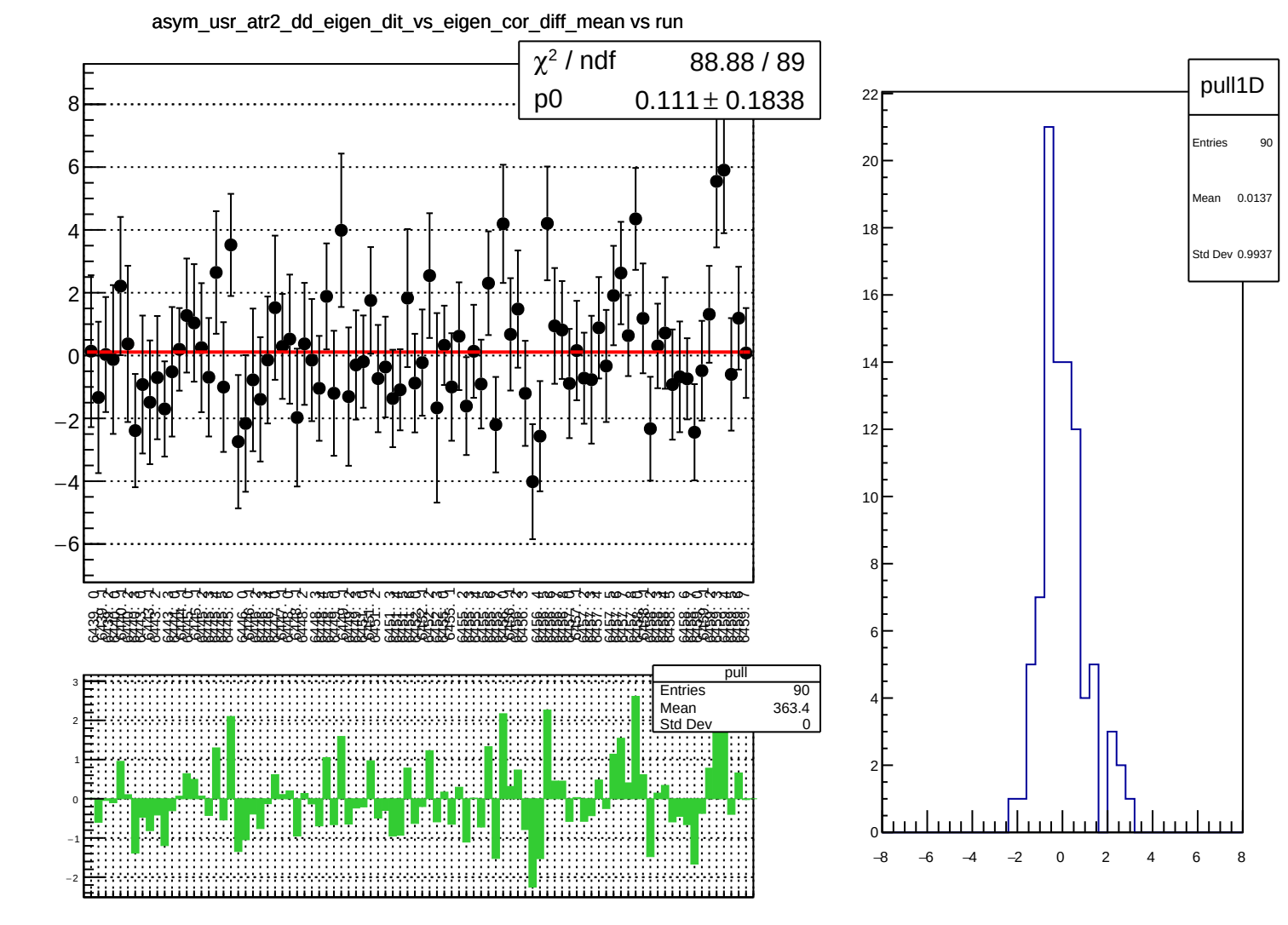

pull1D
Entries 90
Mean 0.00648
Std Dev 0.8962

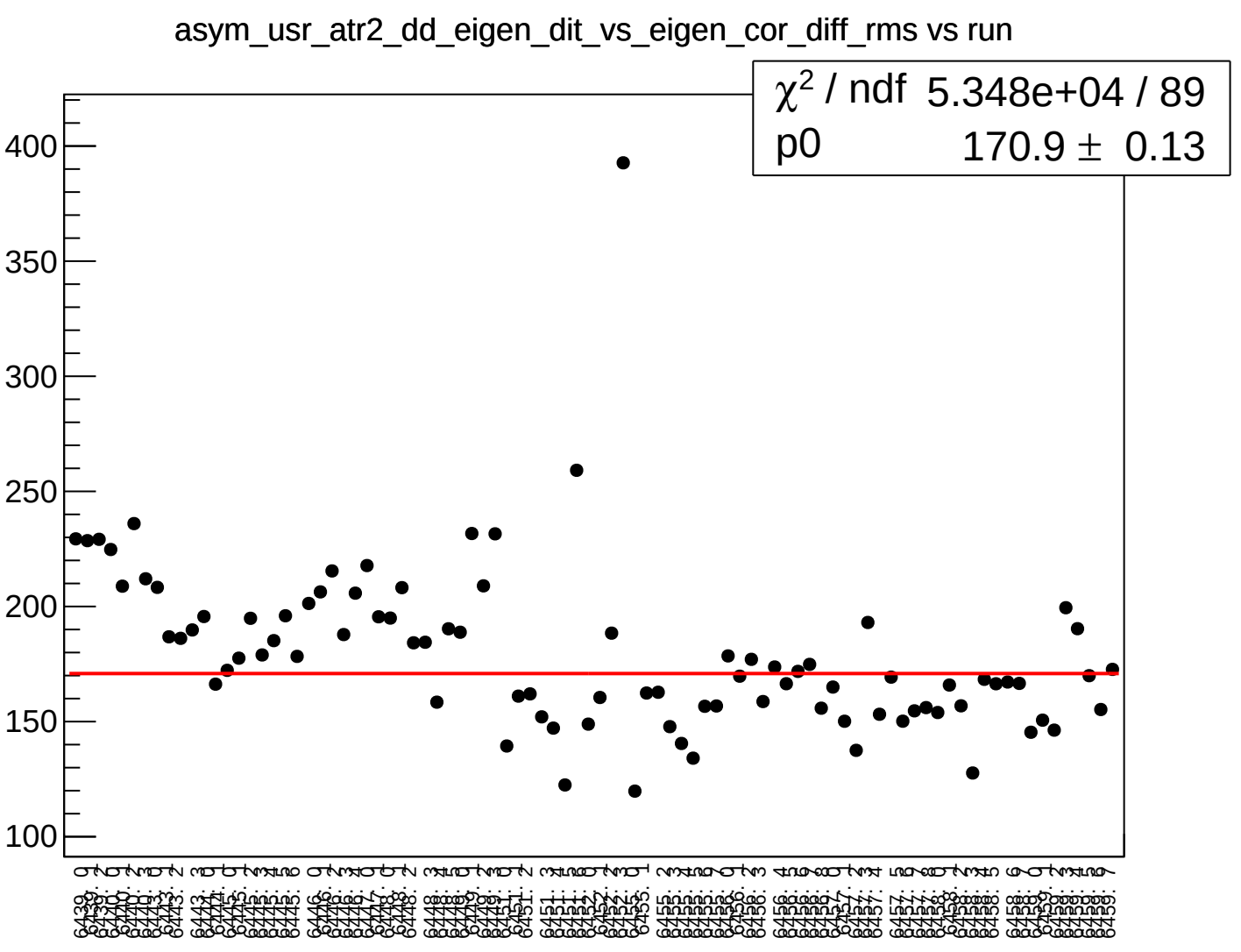

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.63e+04 / 89
p0 0.02223 ± 1.673e−05
0.028
0.026
0.024
0.022
0.02
0.018

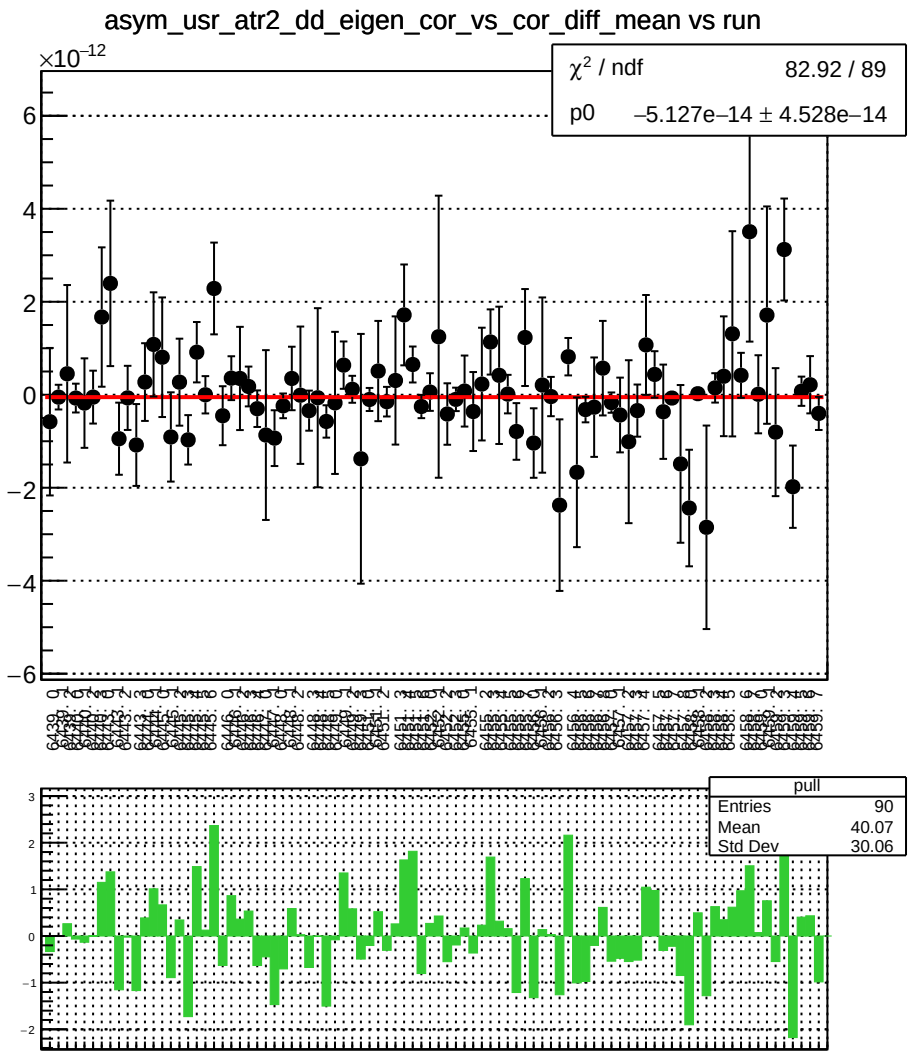

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.88 / 89
p0 0.111 ± 0.1838
pull
Entries 90
Mean 363.4
Std Dev 0

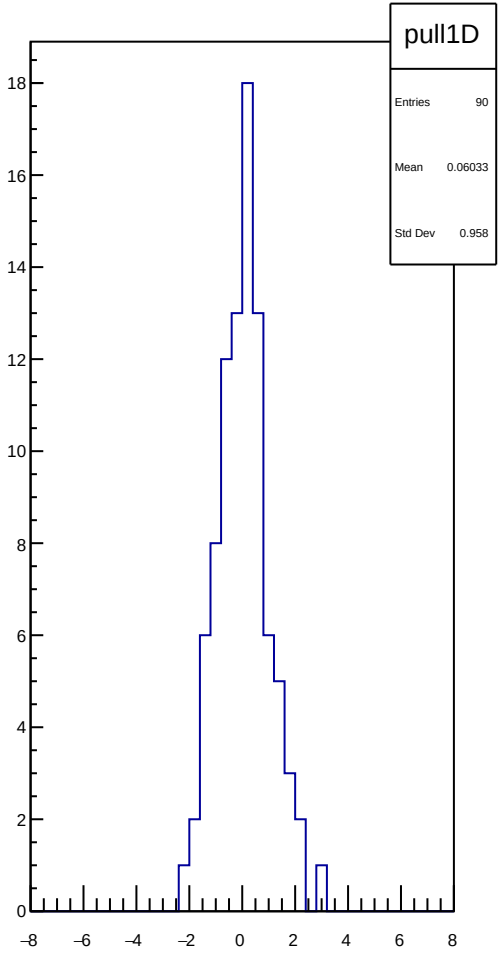

pull1D
Entries 90
Mean 0.0137
Std Dev 0.9937

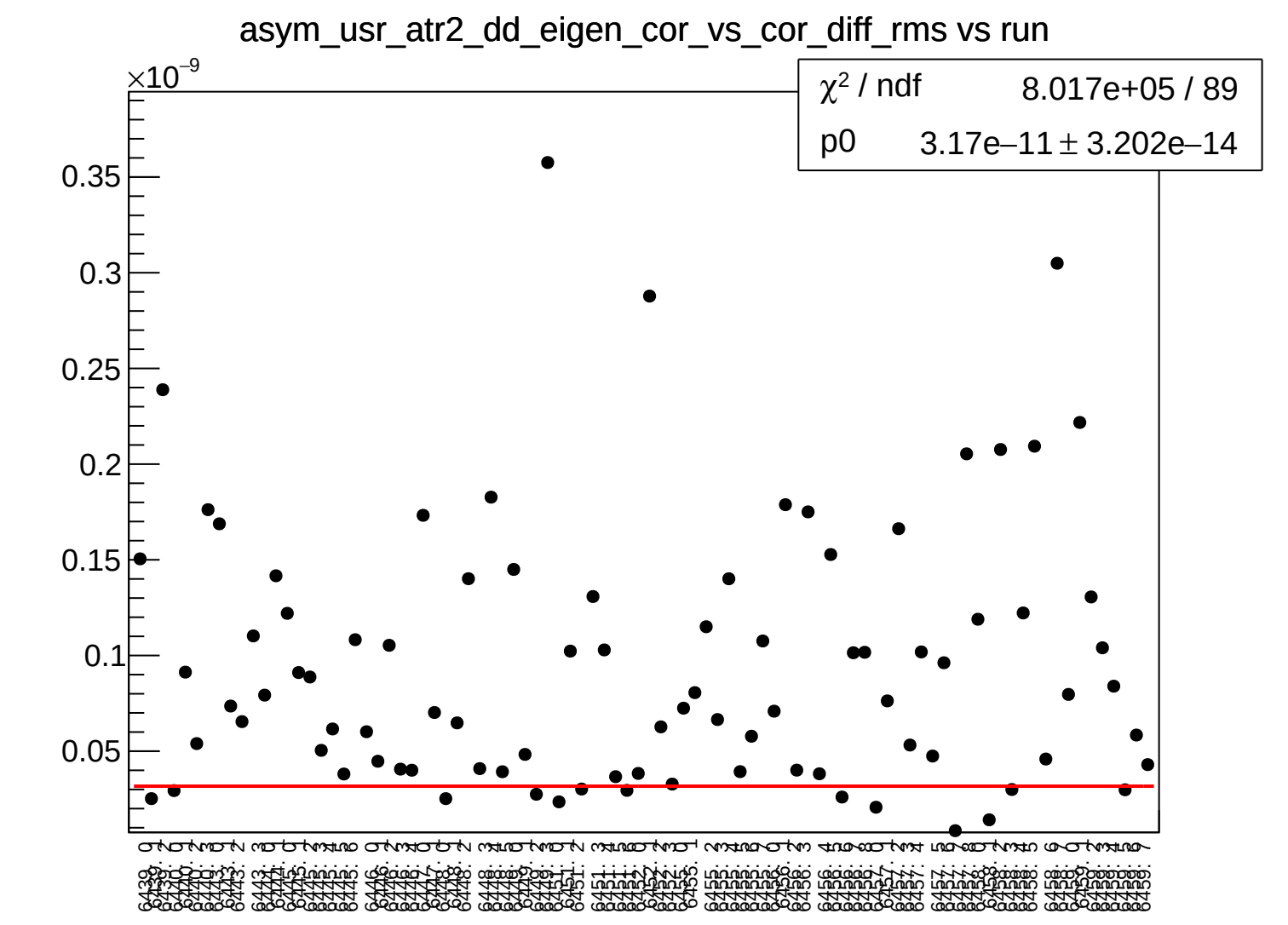

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.348e+04 / 89
p0 170.9 ± 0.13
400
350
300
250
200
150
100

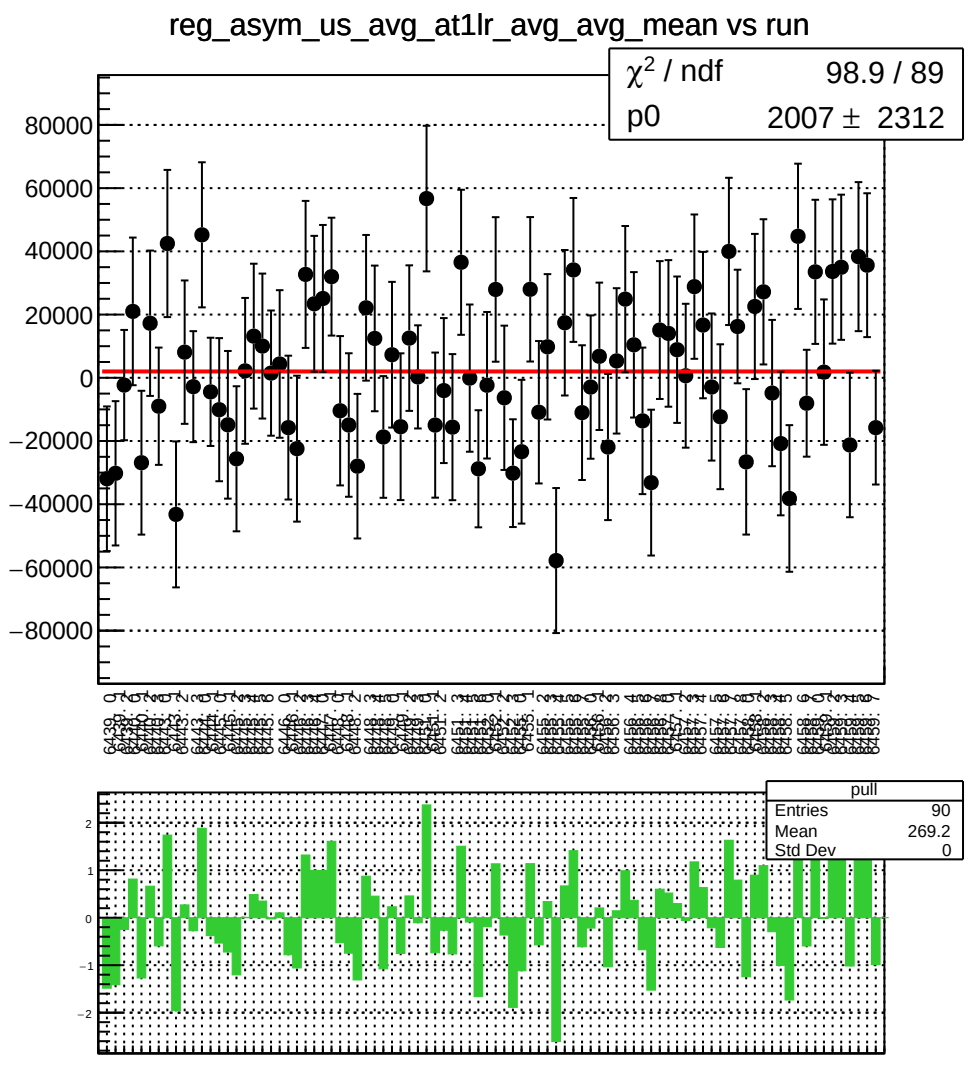

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.88 / 89
p0 0.111 ± 0.1838
pull
Entries 90
Mean 363.4
Std Dev 0
pull1D
Entries 90
Mean 0.0137
Std Dev 0.9937

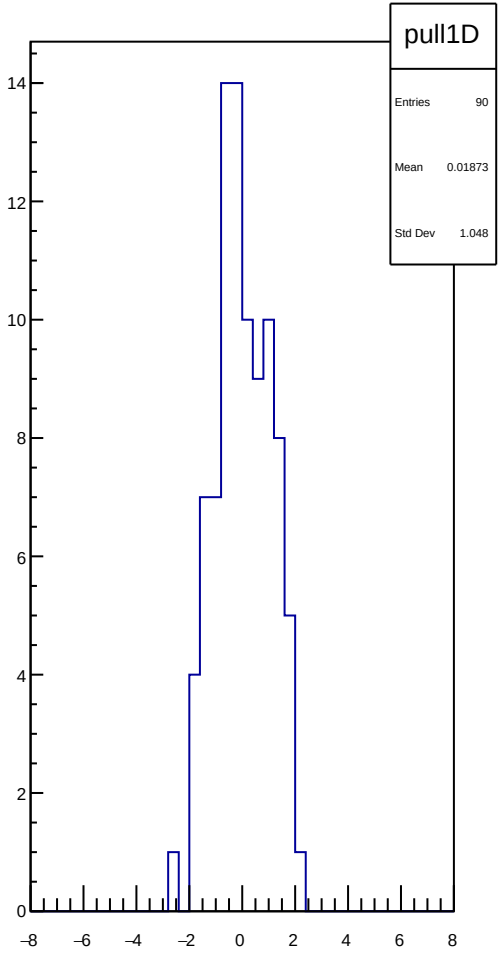

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.348e+04 / 89
p0 170.9 ± 0.13
400
350
300
250
200
150
100

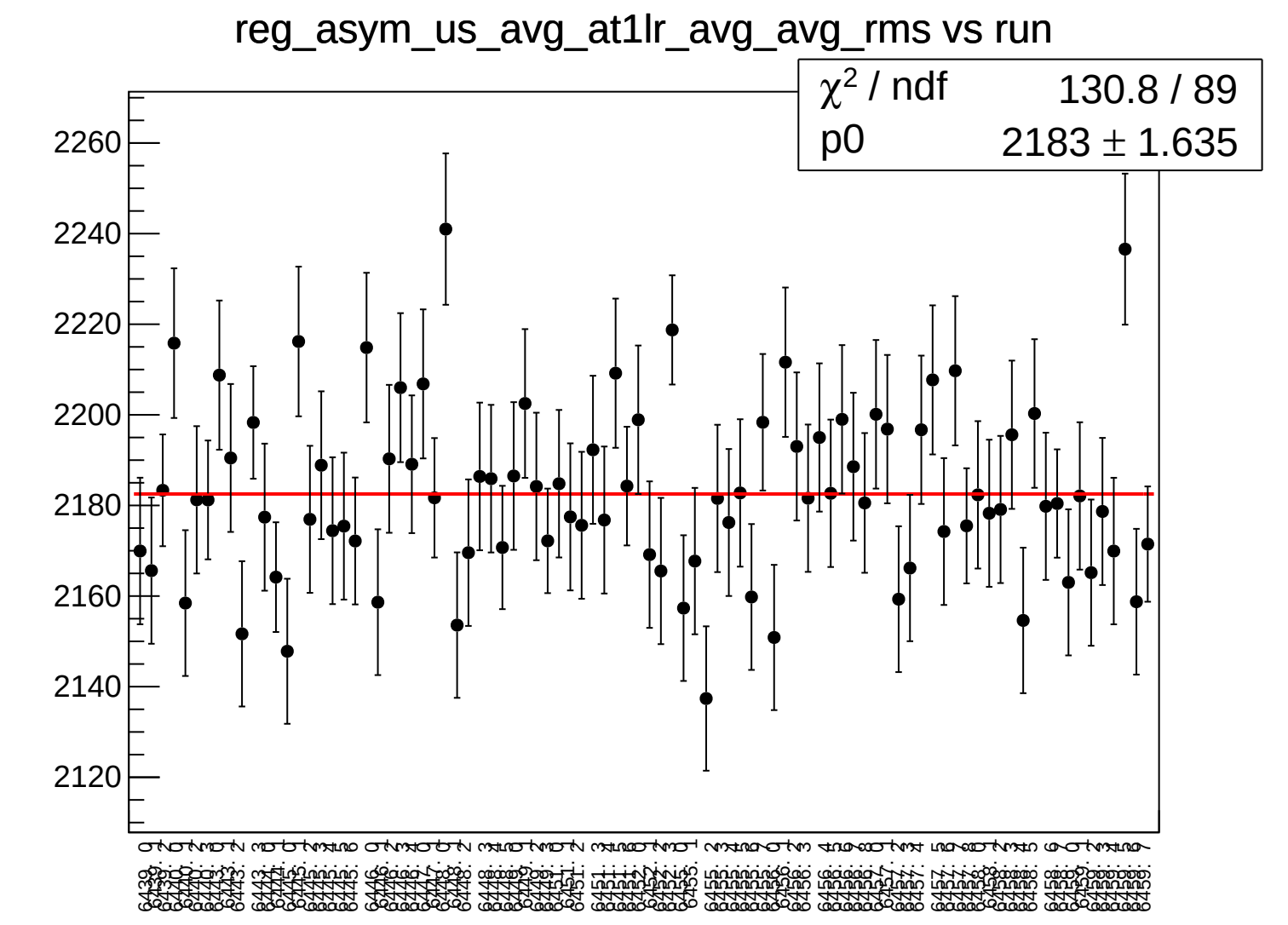

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.92 / 89
p0 −5.127e−14 ± 4.528e−14
pull
Entries 90
Mean 40.07
Std Dev 30.06

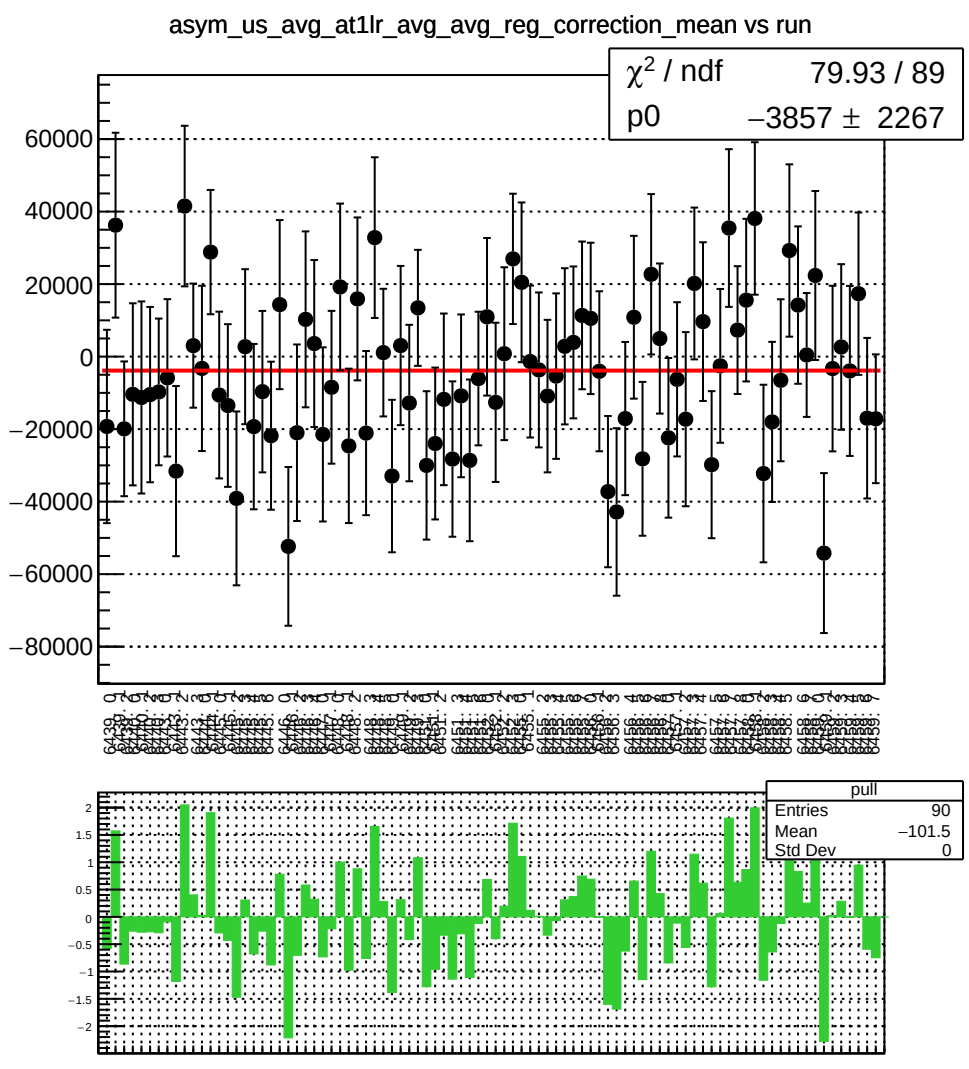

pull1D
Entries 90
Mean 0.06033
Std Dev 0.958

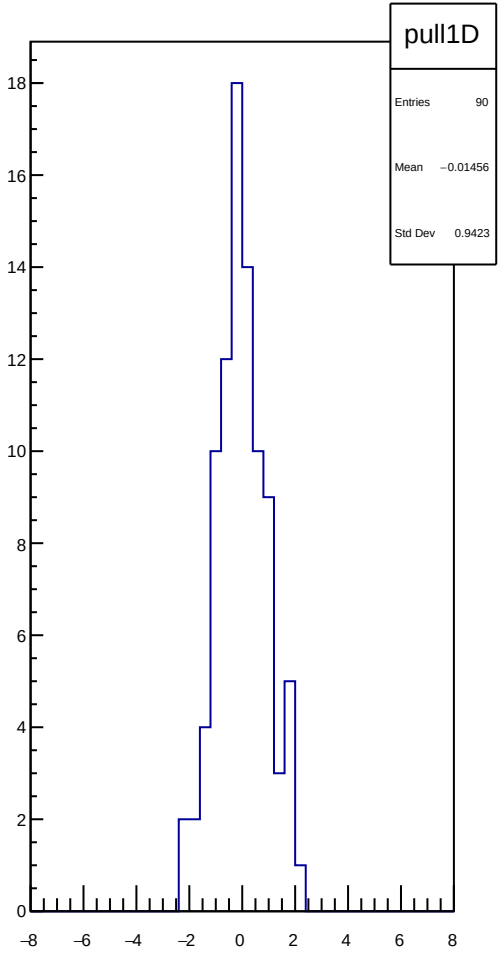

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.017e+05 / 89
p0 3.17e−11 ± 3.202e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

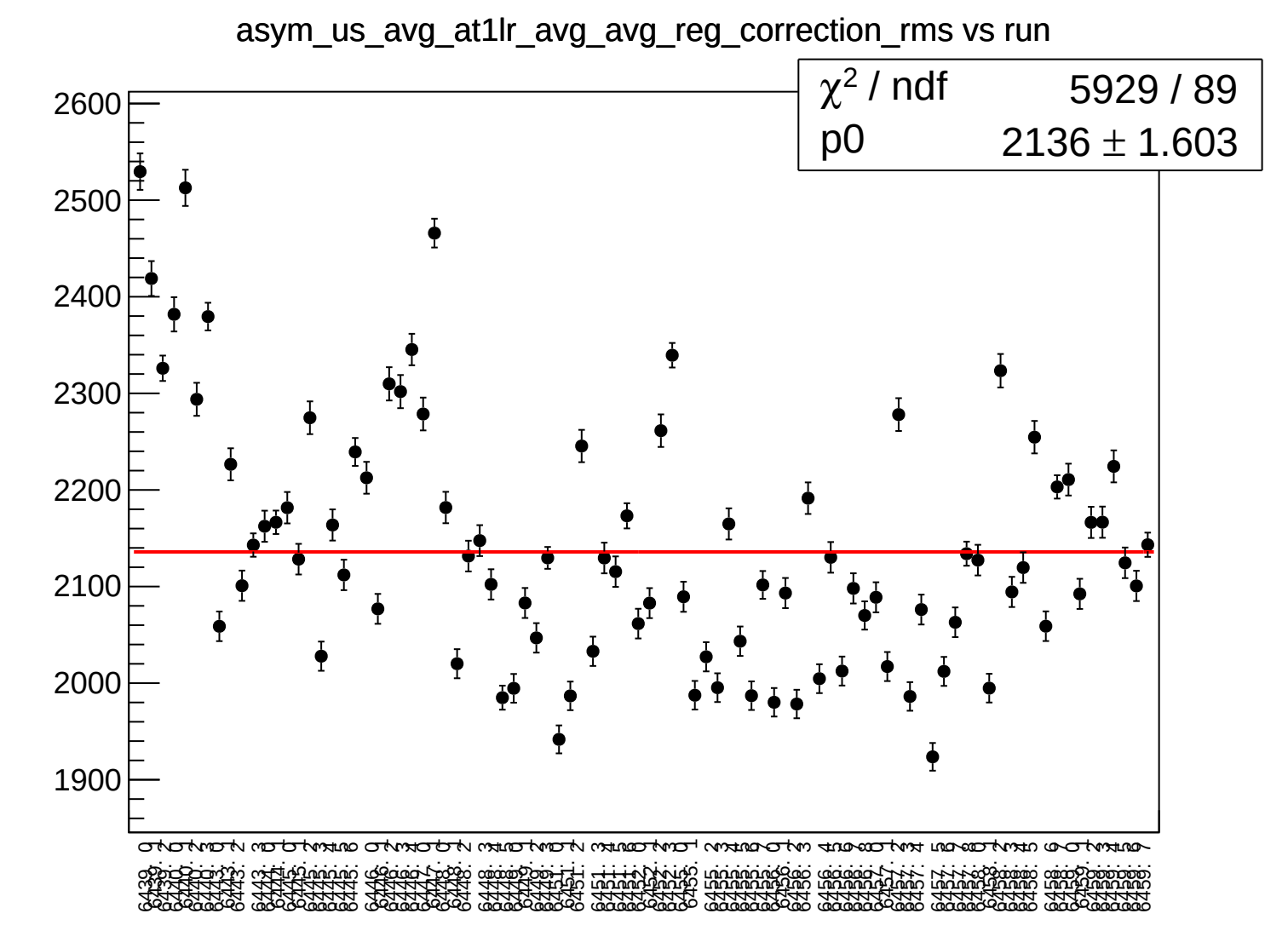

reg_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 98.9 / 89
p0 2007 ± 2312
pull
Entries 90
Mean 269.2
Std Dev 0

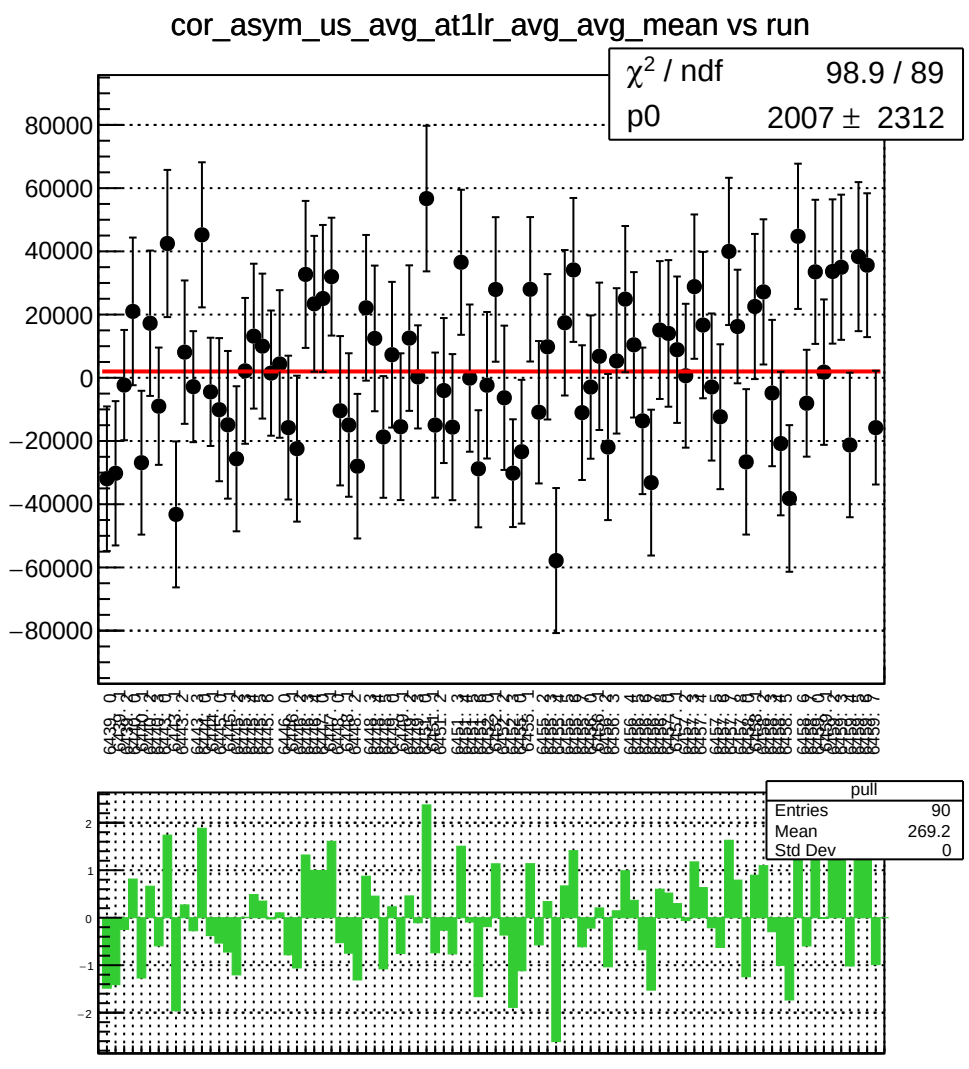

pull1D
Entries 90
Mean 0.01873
Std Dev 1.048

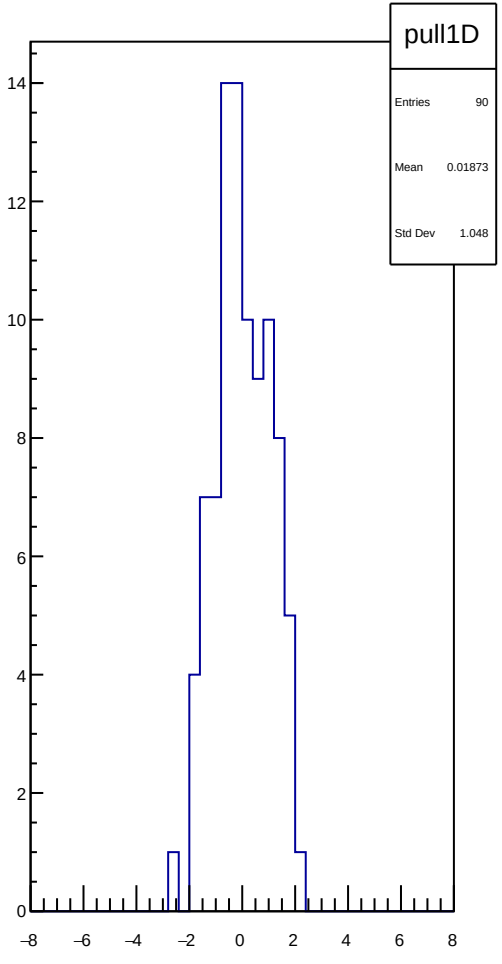

reg_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 130.8 / 89
p0 2183 ± 1.635
2260
2240
2220
2200
2180
2160
2140
2120

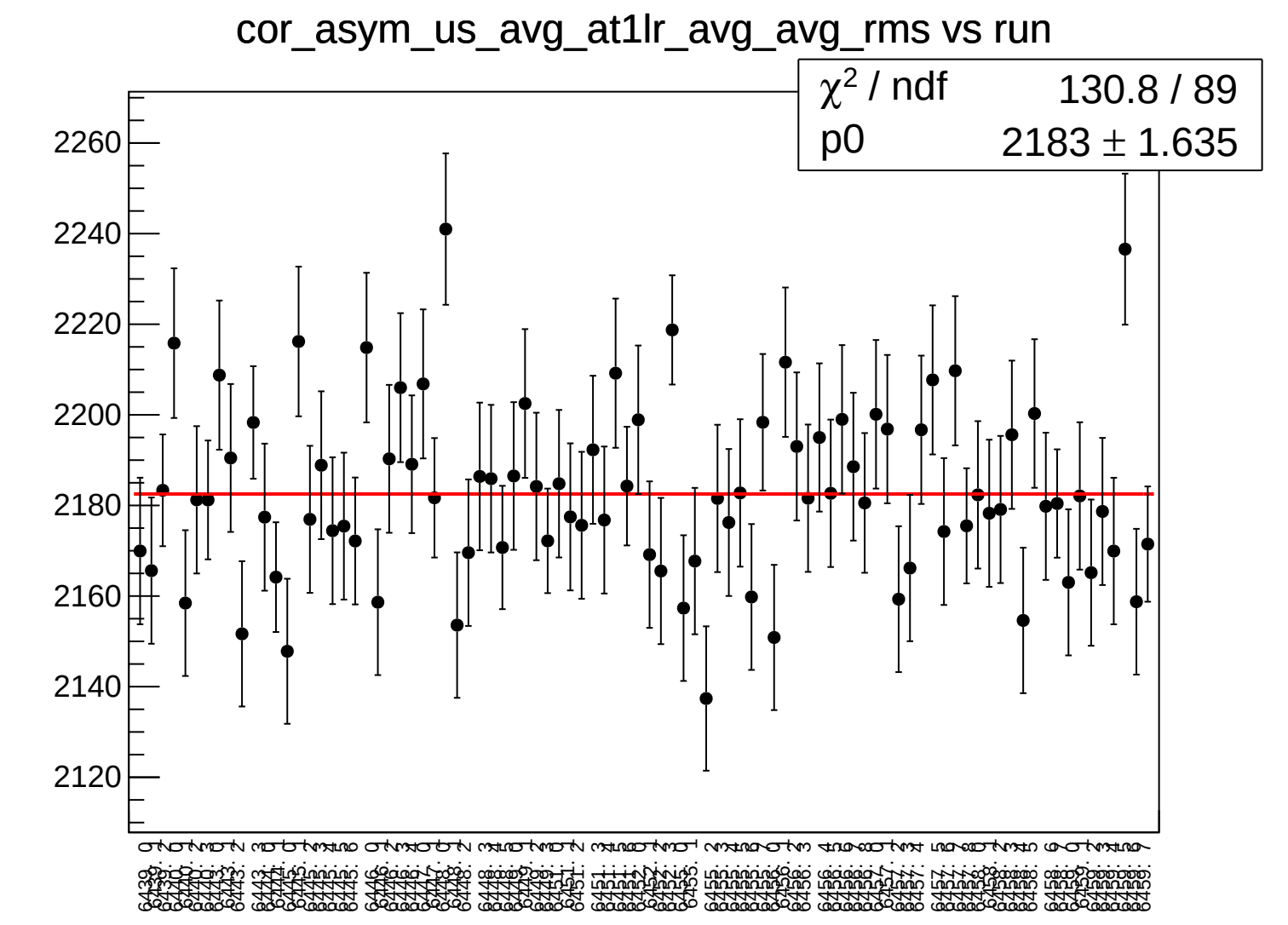

asym_us_avg_at1lr_avg_avg_reg_correction_mean vs run
χ² / ndf 79.93 / 89
p0 −3857 ± 2267
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 90
Mean −101.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

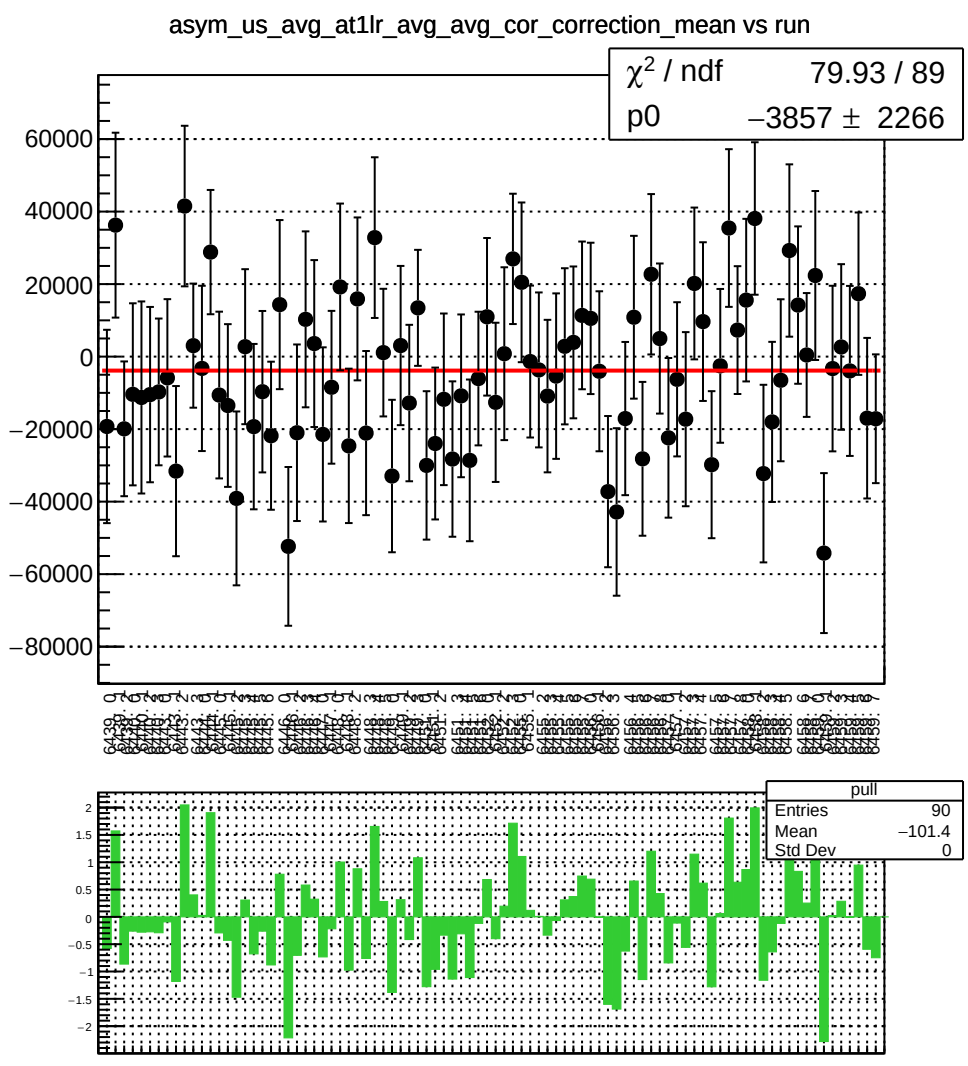

pull1D
Entries 90
Mean −0.01456
Std Dev 0.9423
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

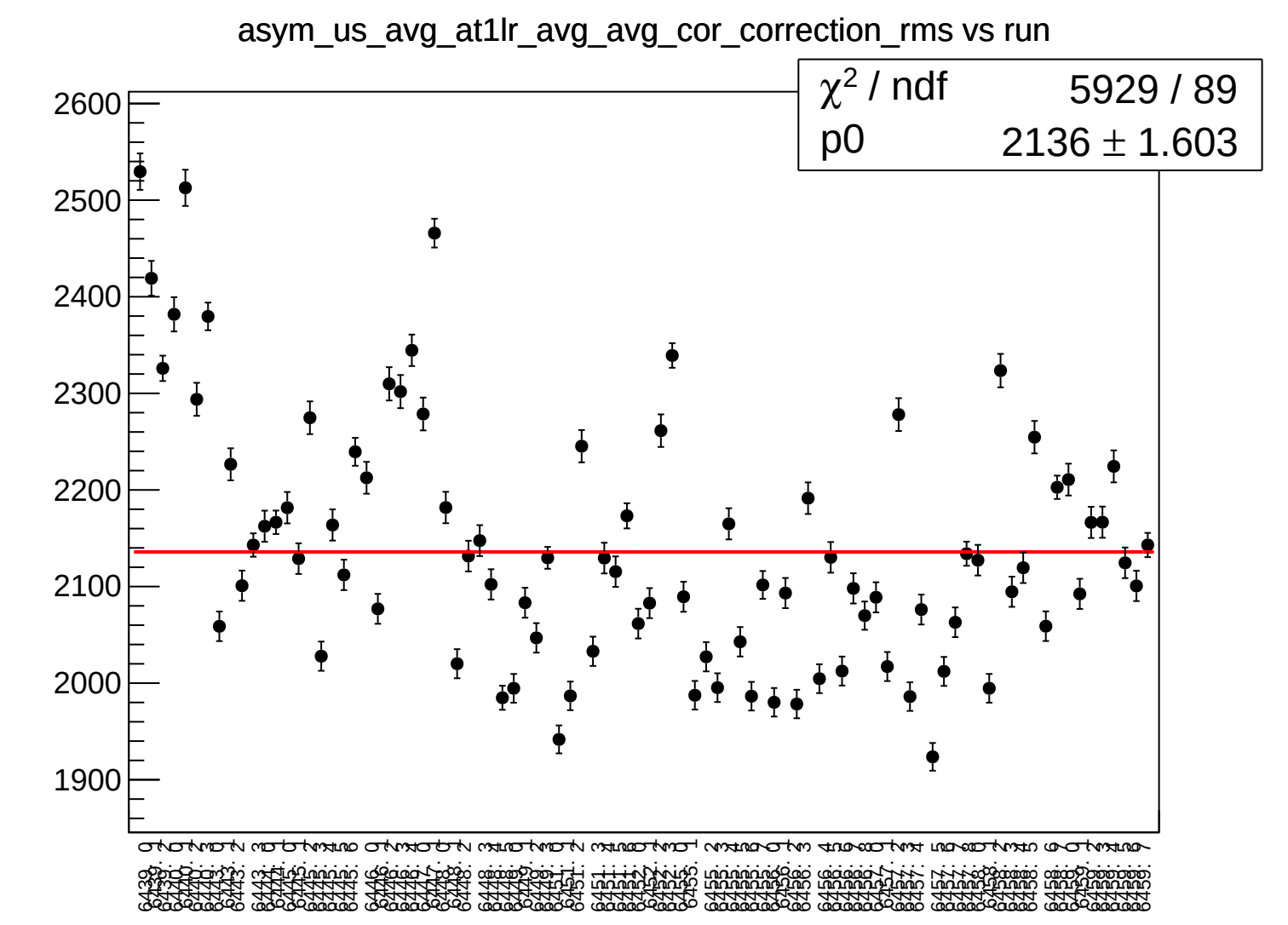

asym_us_avg_at1lr_avg_avg_reg_correction_rms vs run
χ² / ndf 5929 / 89
p0 2136 ± 1.603
2600
2500
2400
2300
2200
2100
2000
1900

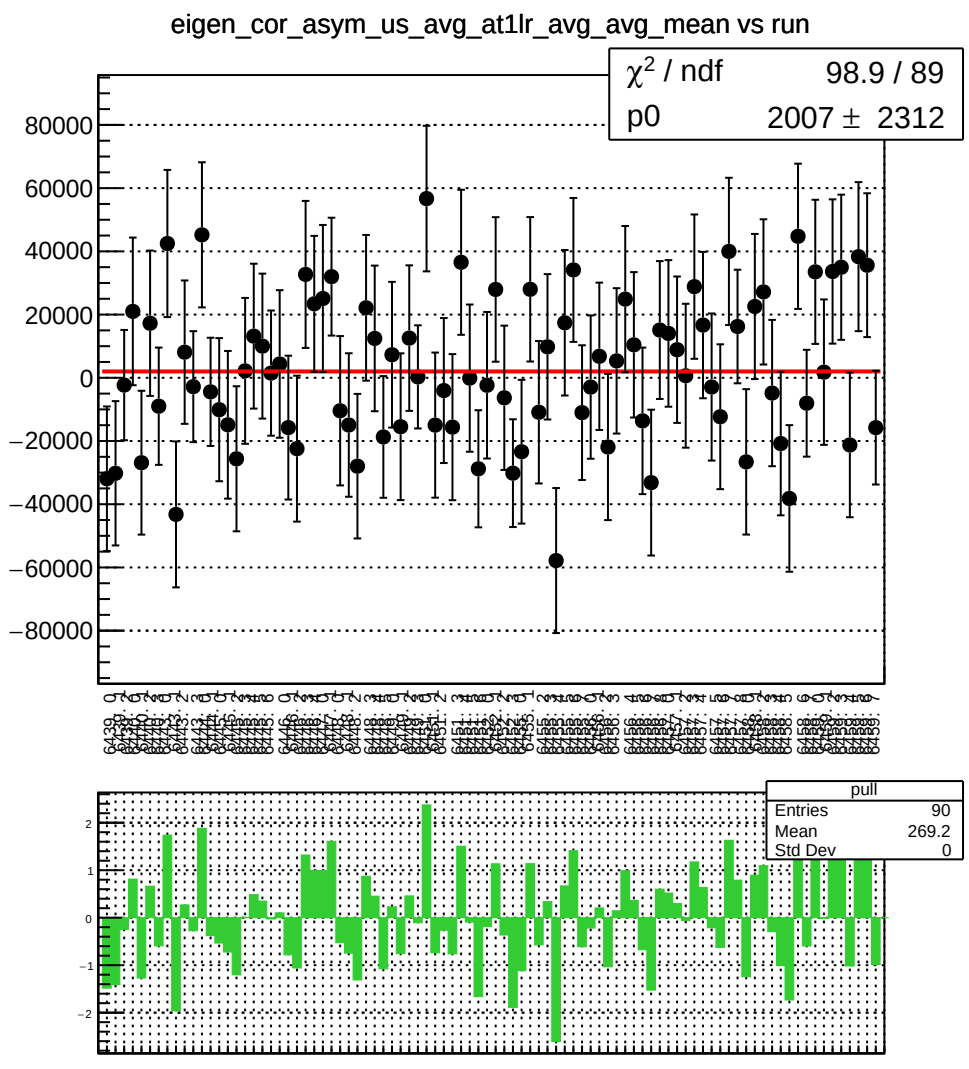

cor_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 98.9 / 89
p0 2007 ± 2312
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 90
Mean 269.2
Std Dev 0
2
1
0
−1
−2

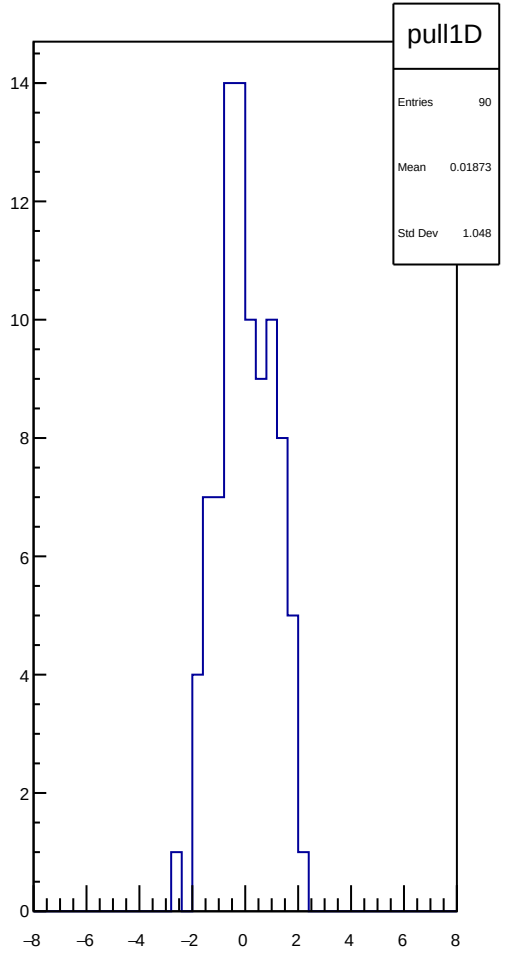

pull1D
Entries 90
Mean 0.01873
Std Dev 1.048
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

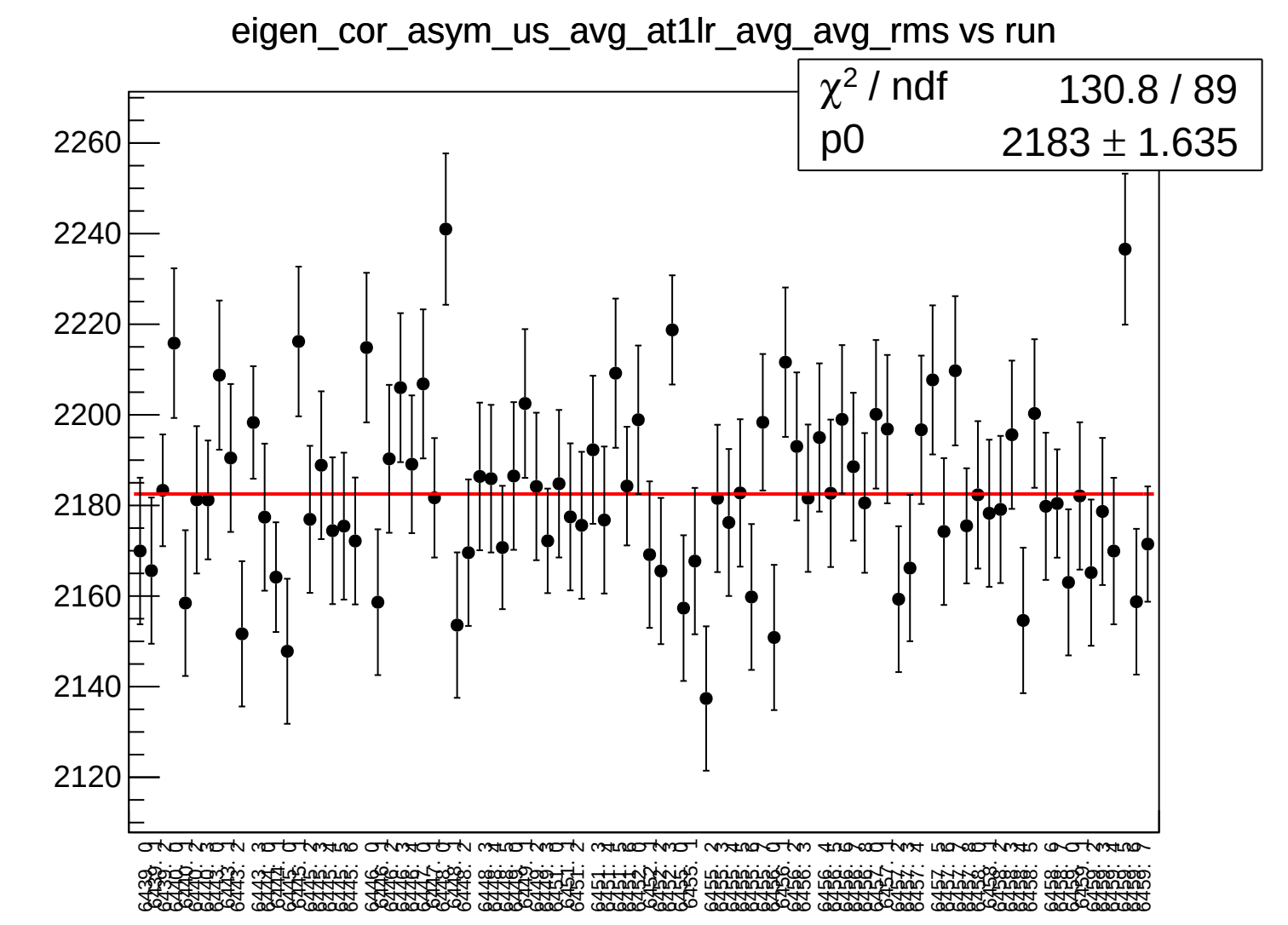

cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 130.8 / 89
p0 2183 ± 1.635
2260
2240
2220
2200
2180
2160
2140
2120

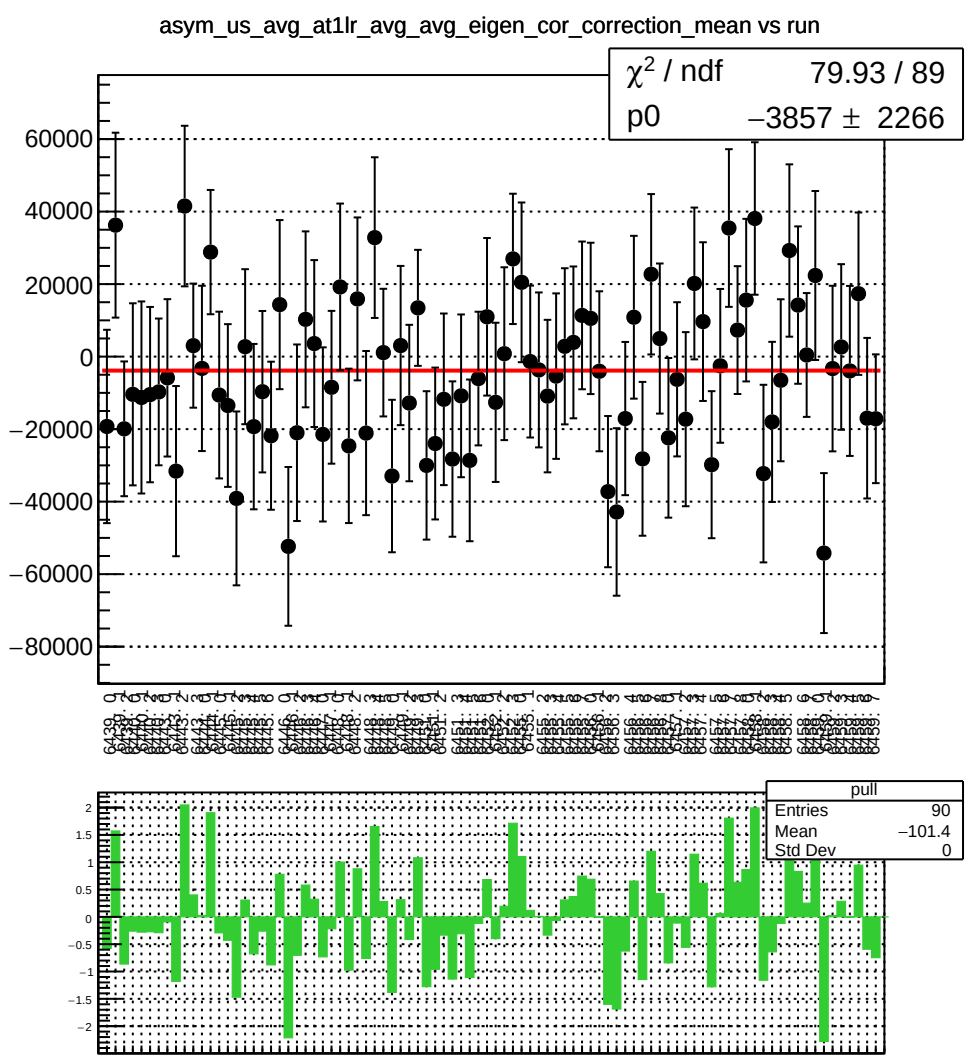

asym_us_avg_at1lr_avg_avg_cor_correction_mean vs run
χ² / ndf 79.93 / 89
p0 −3857 ± 2266
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 90
Mean −101.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 90
Mean −0.01457
Std Dev 0.9423
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

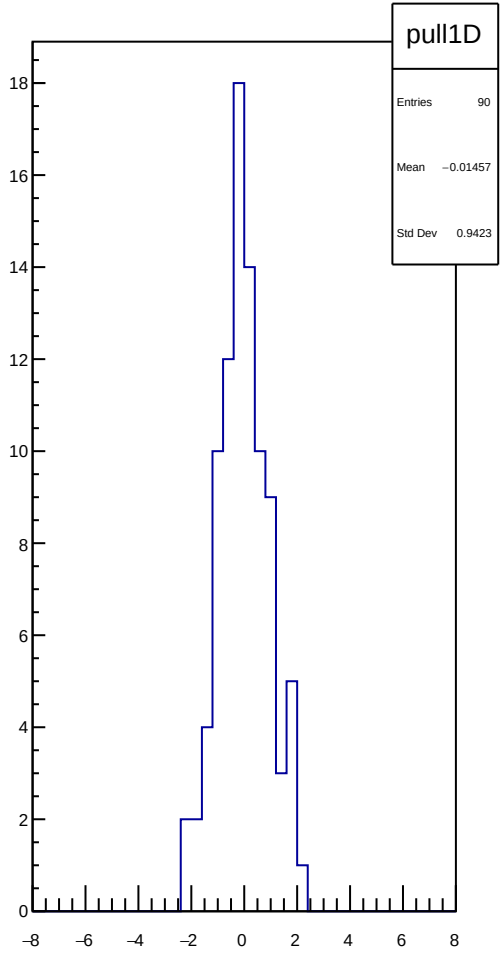

asym_us_avg_at1lr_avg_avg_cor_correction_rms vs run
χ² / ndf 5929 / 89
p0 2136 ± 1.603
2600
2500
2400
2300
2200
2100
2000
1900

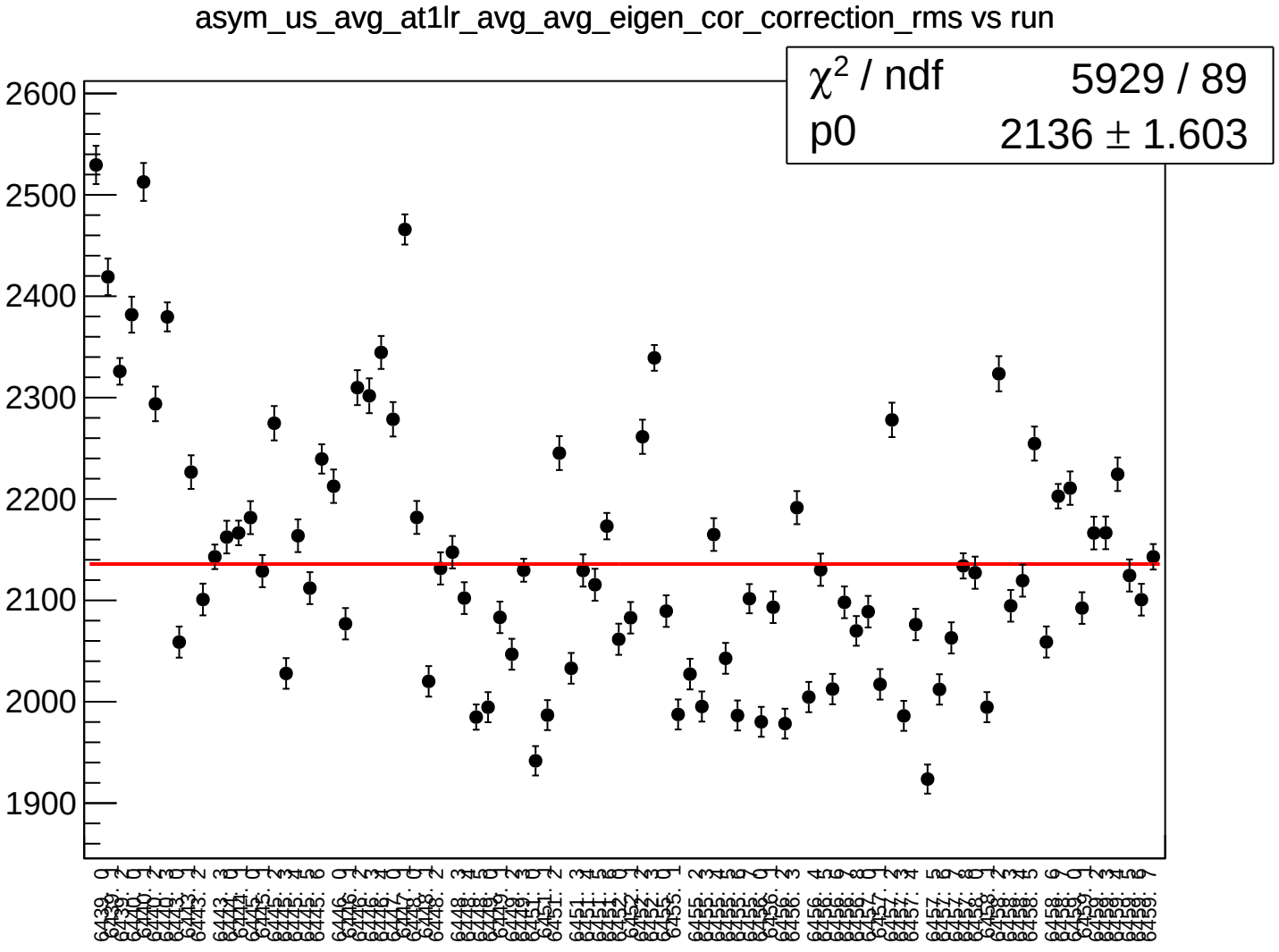

eigen_cor_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 98.9 / 89
p0 2007 ± 2312
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 90
Mean 269.2
Std Dev 0
2
1
0
−1
−2

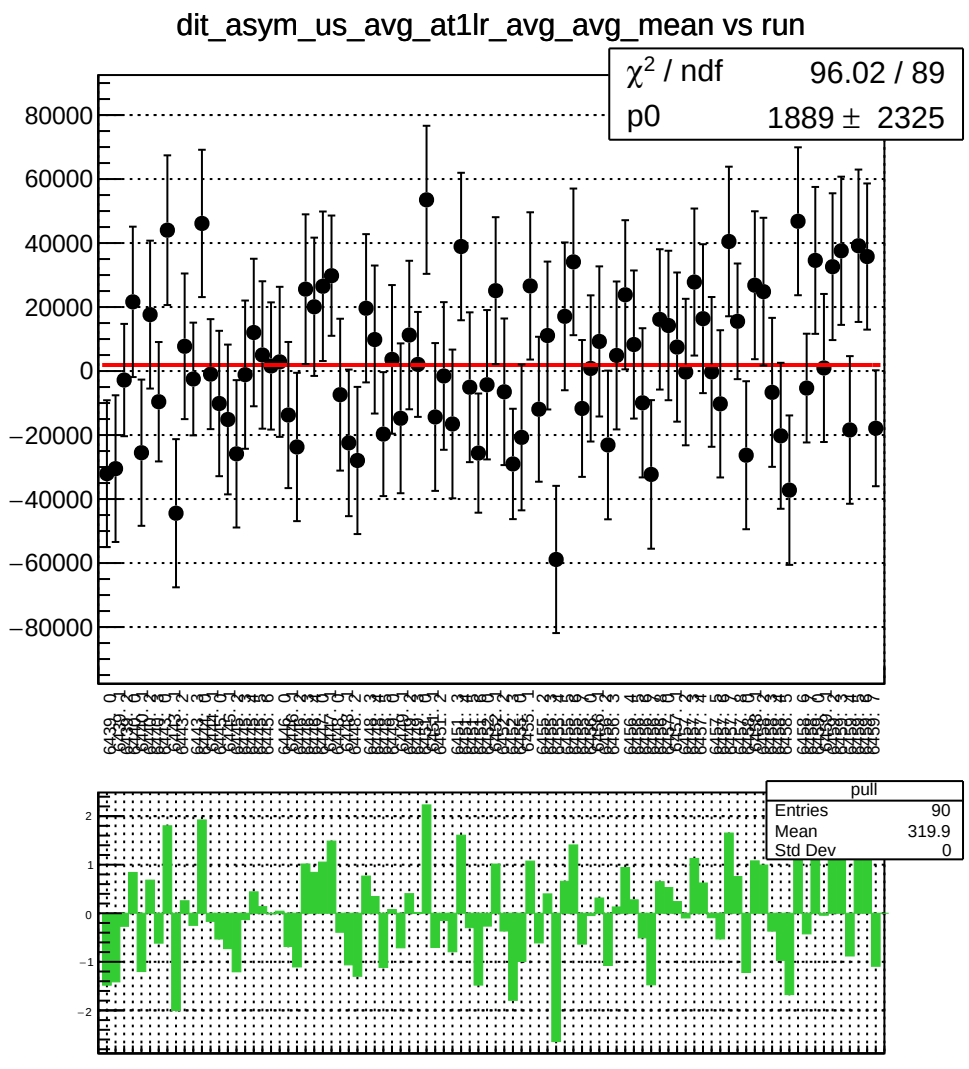

pull1D
Entries 90
Mean 0.01873
Std Dev 1.048
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

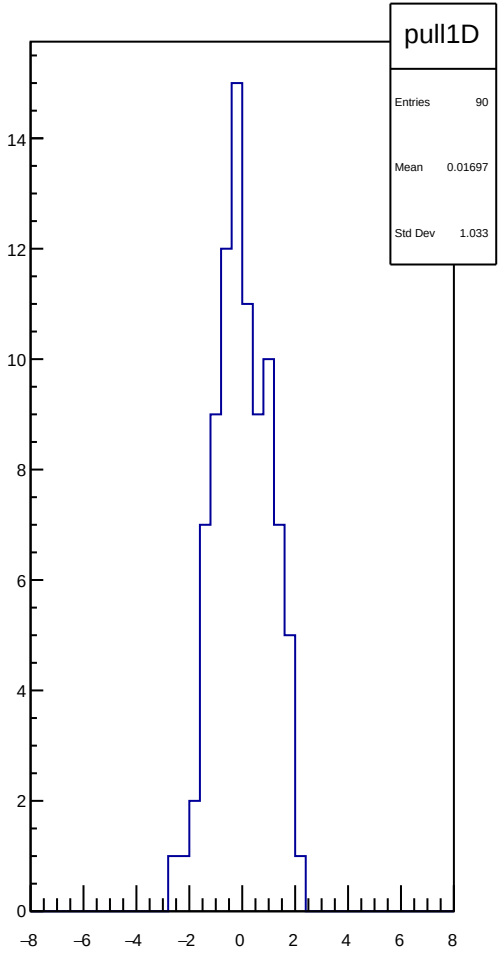

eigen_cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 130.8 / 89
p0 2183 ± 1.635
2260
2240
2220
2200
2180
2160
2140
2120

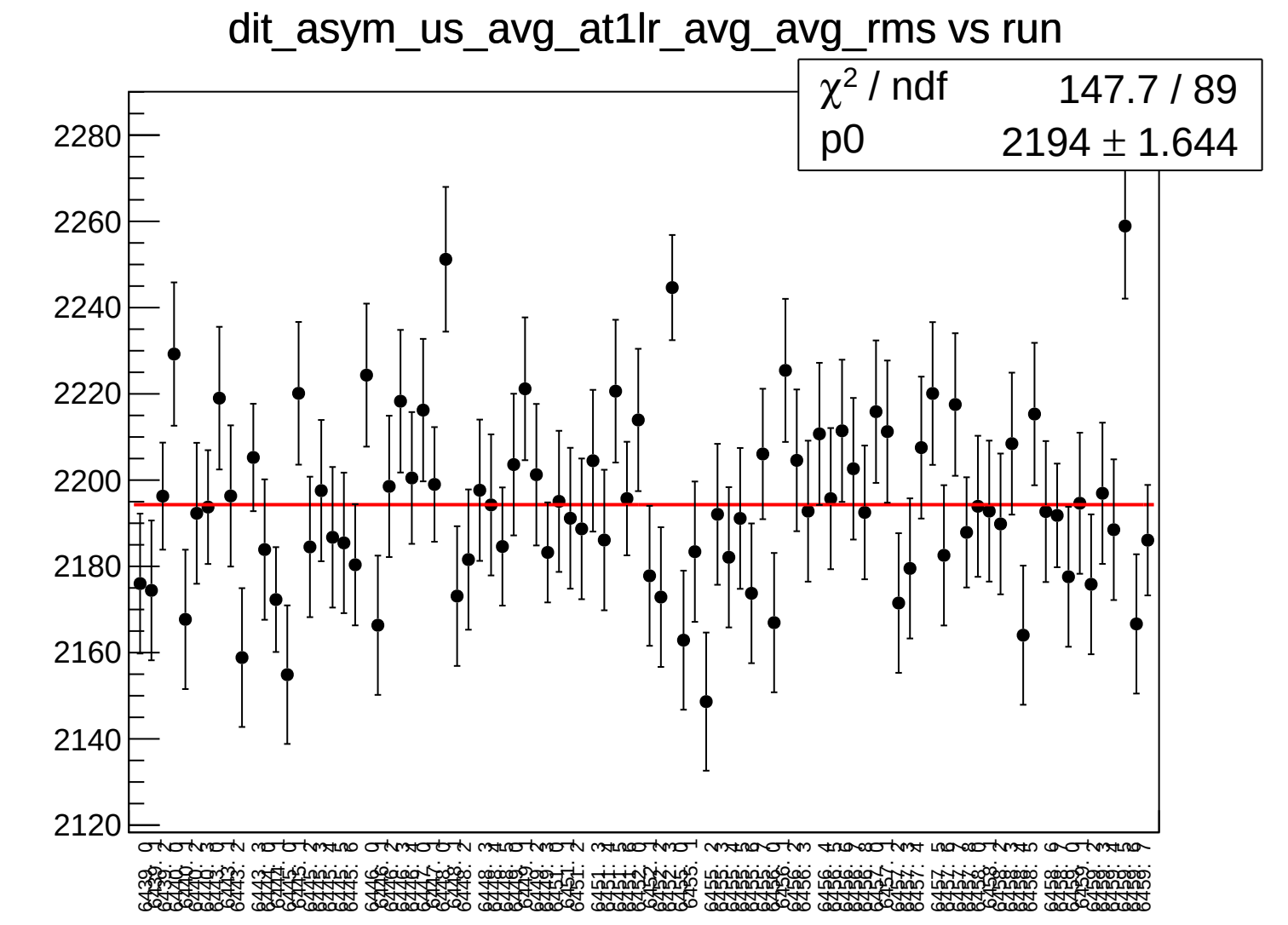

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_mean vs run
χ² / ndf 79.93 / 89
p0 −3857 ± 2266
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 90
Mean −101.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

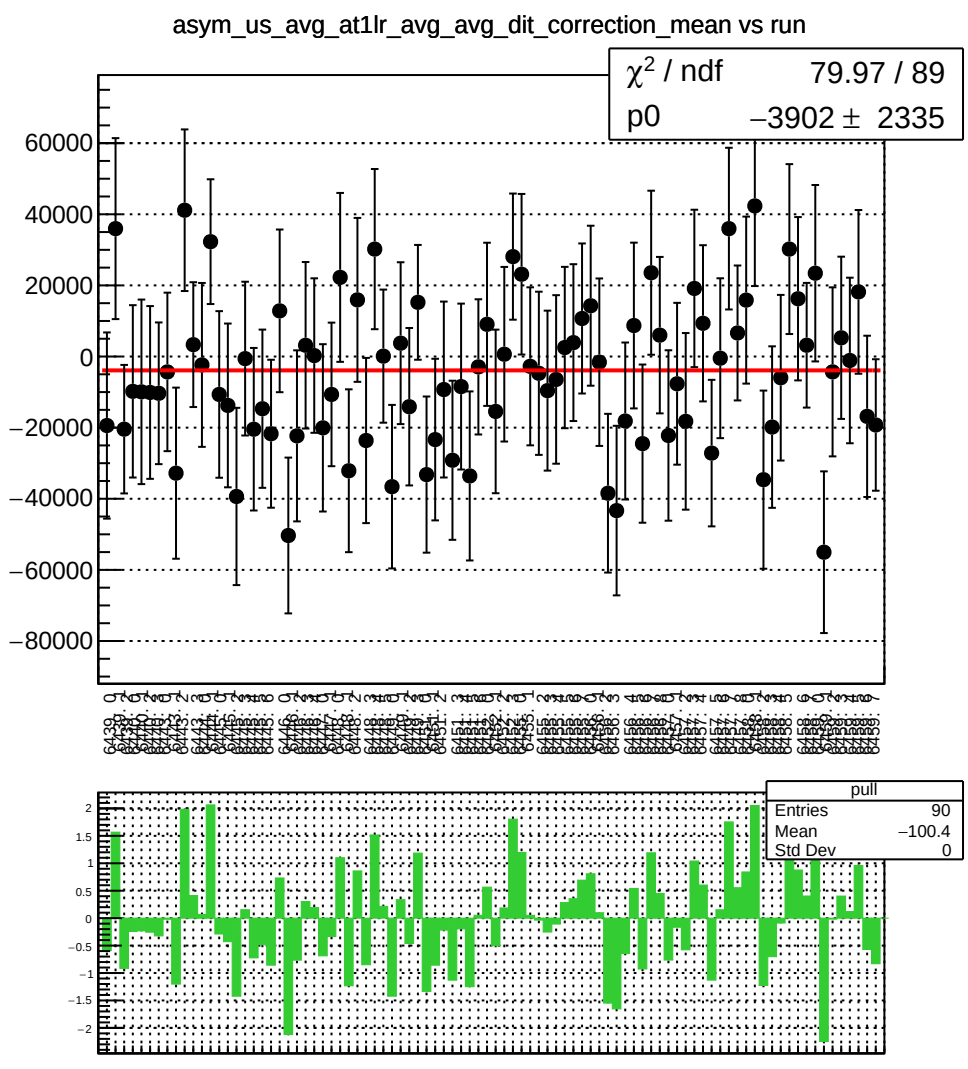

pull1D
Entries 90
Mean −0.01457
Std Dev 0.9423
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

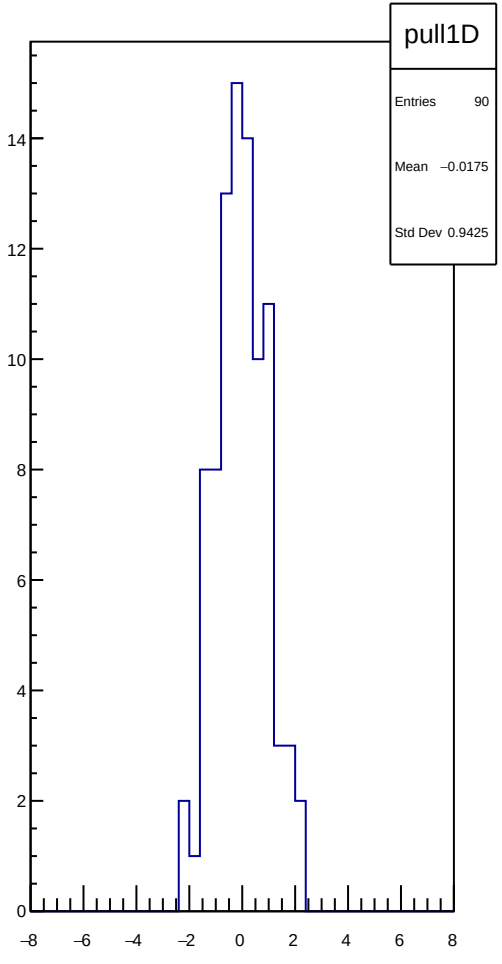

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 5929 / 89
p0 2136 ± 1.603
2600
2500
2400
2300
2200
2100
2000
1900

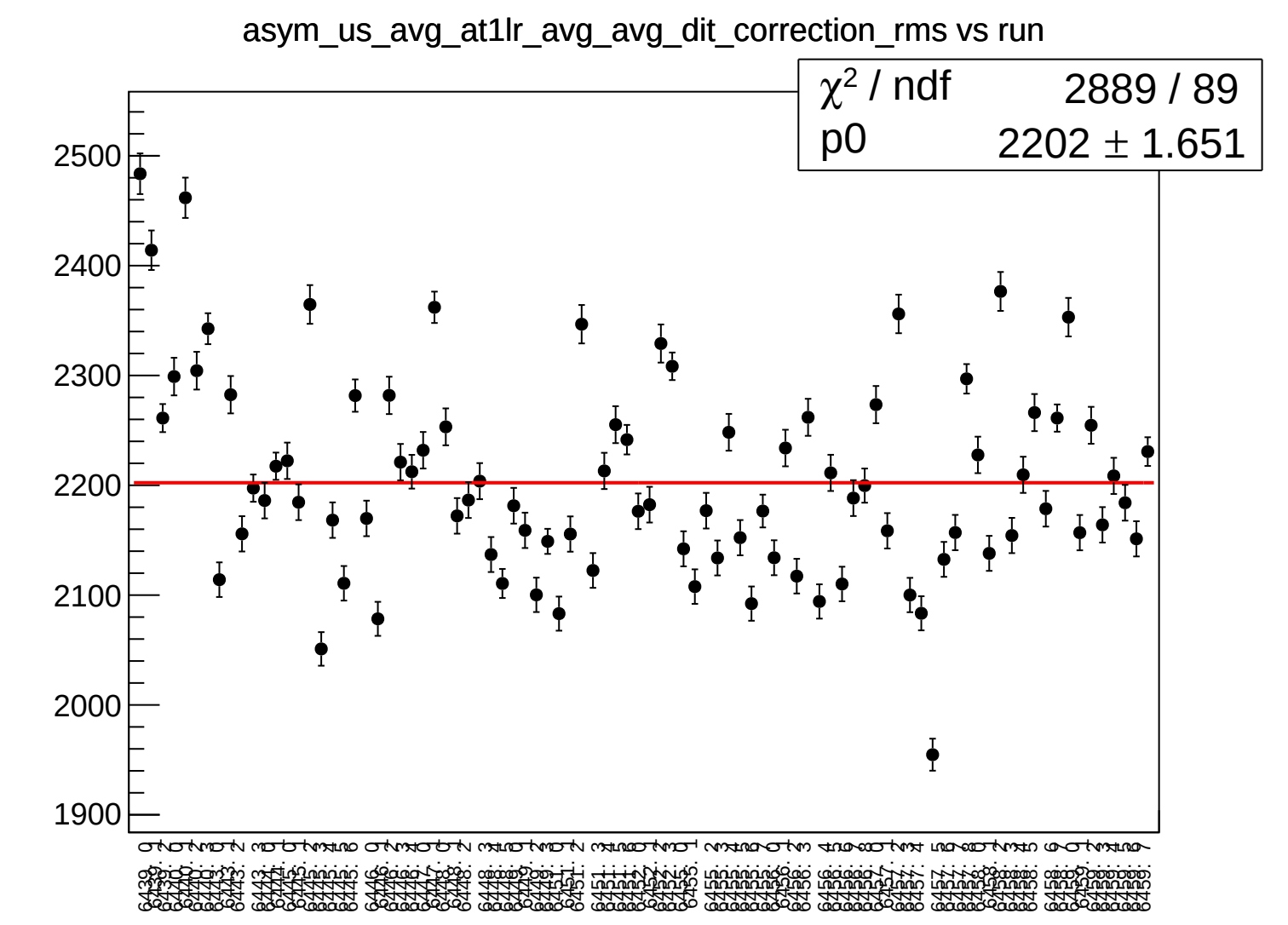

dit_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 96.02 / 89
p0 1889 ± 2325
pull
Entries 90
Mean 319.9
Std Dev 0

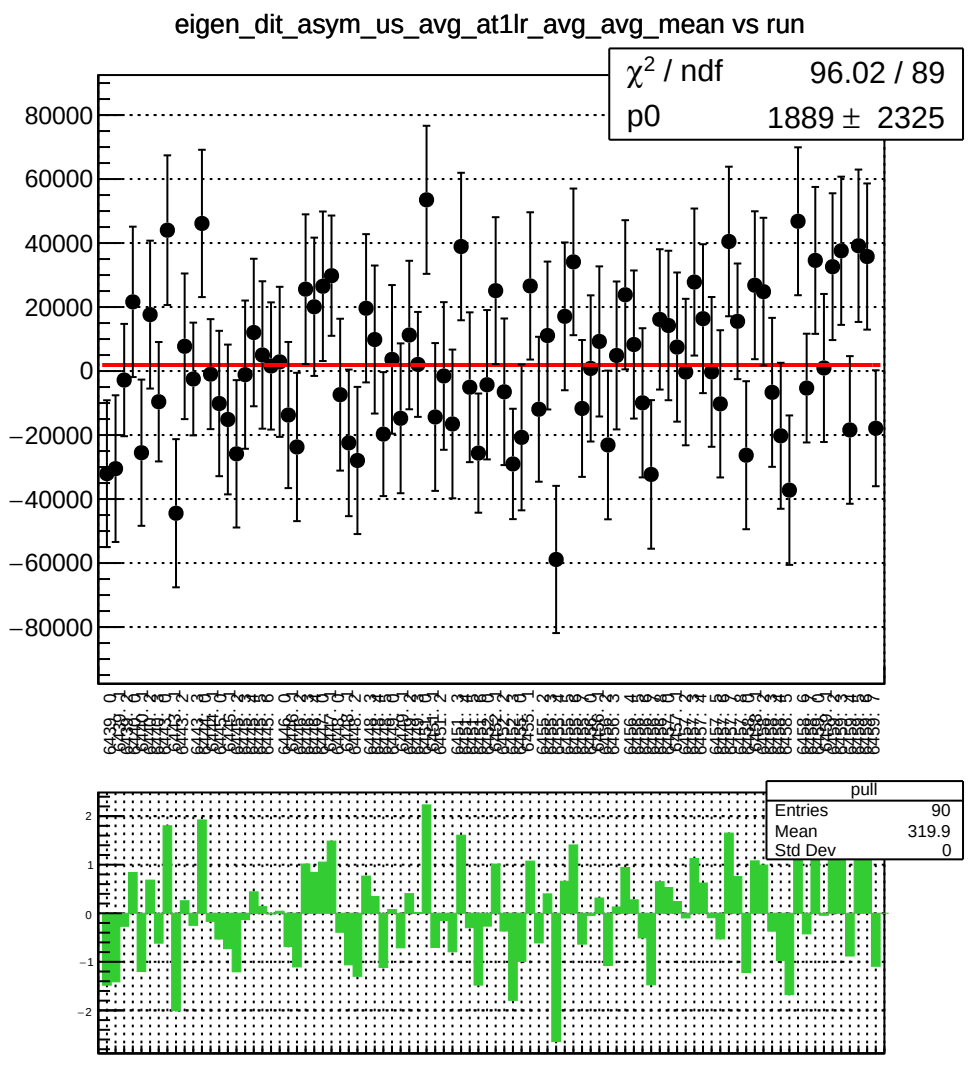

pull1D
Entries 90
Mean 0.01697
Std Dev 1.033

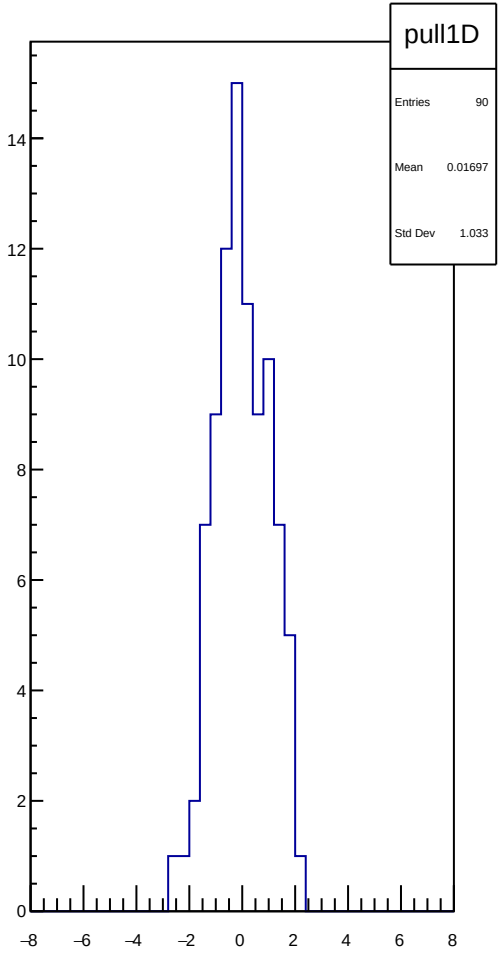

dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 147.7 / 89
p0 2194 ± 1.644
2280
2260
2240
2220
2200
2180
2160
2140
2120

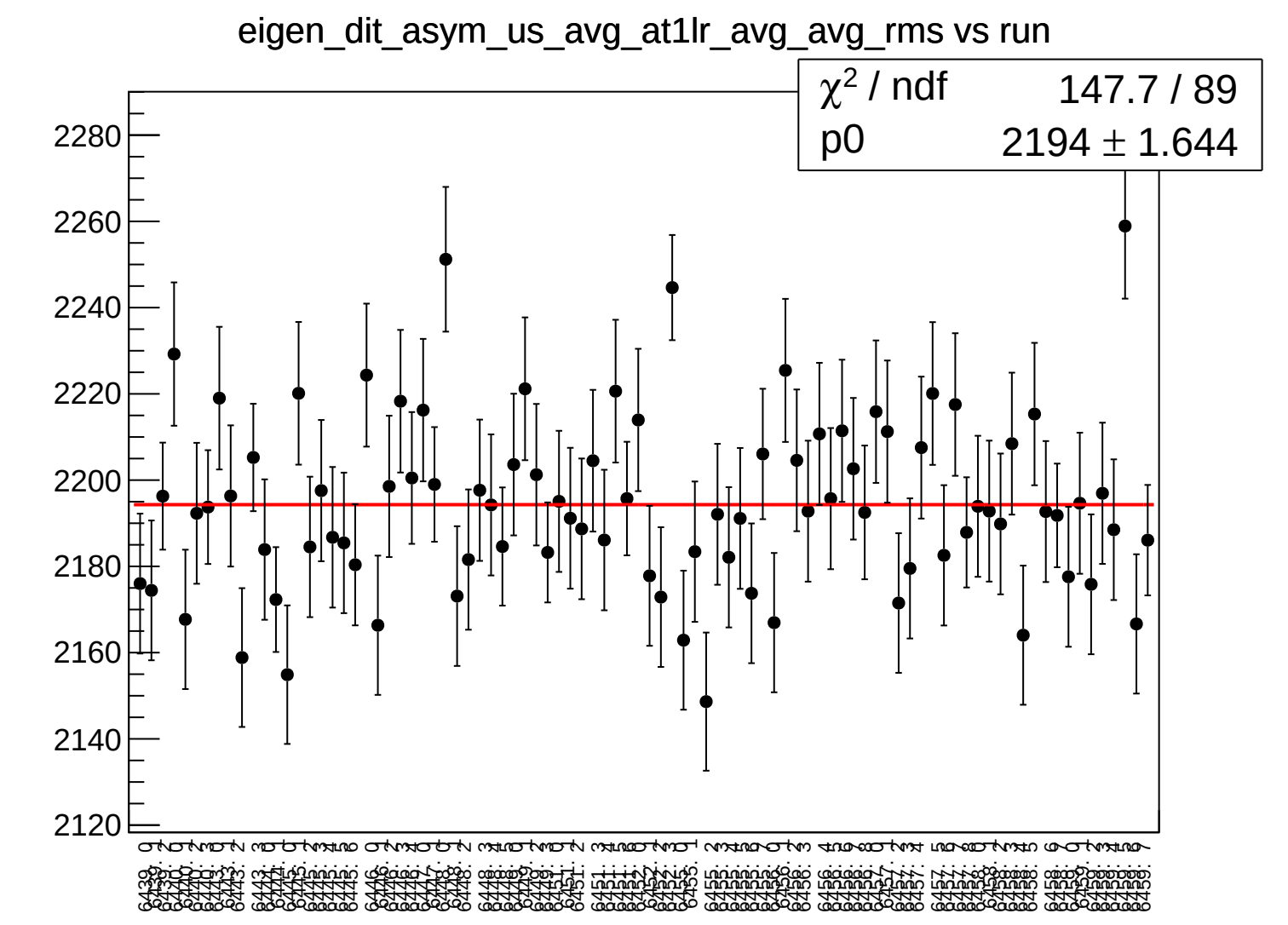

asym_us_avg_at1lr_avg_avg_dit_correction_mean vs run
χ² / ndf 79.97 / 89
p0 −3902 ± 2335
pull
Entries 90
Mean −100.4
Std Dev 0

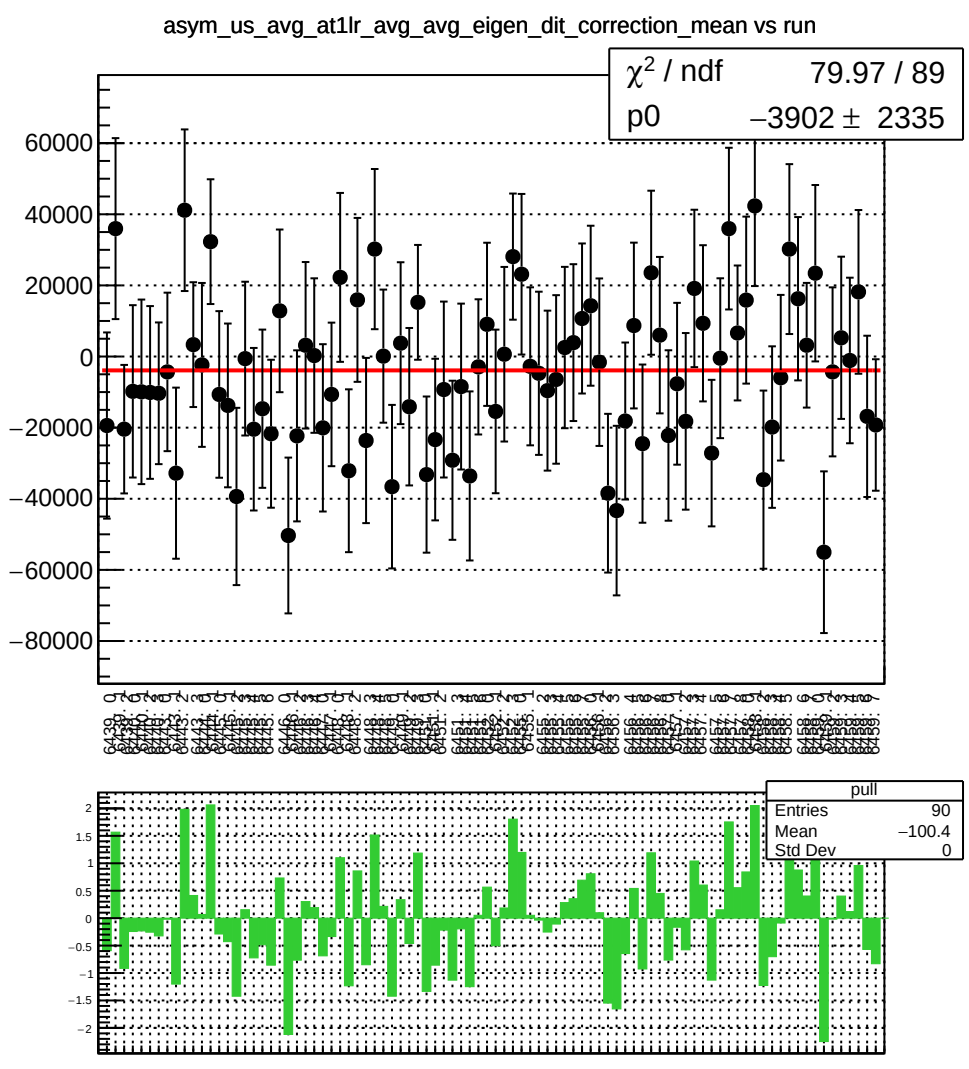

pull1D
Entries 90
Mean −0.0175
Std Dev 0.9425

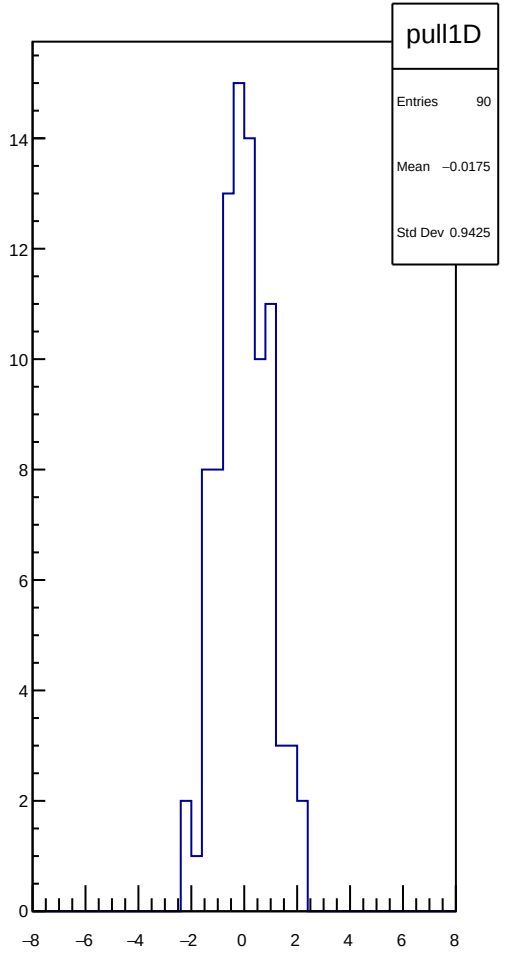

asym_us_avg_at1lr_avg_avg_dit_correction_rms vs run
χ² / ndf 2889 / 89
p0 2202 ± 1.651
2500
2400
2300
2200
2100
2000
1900

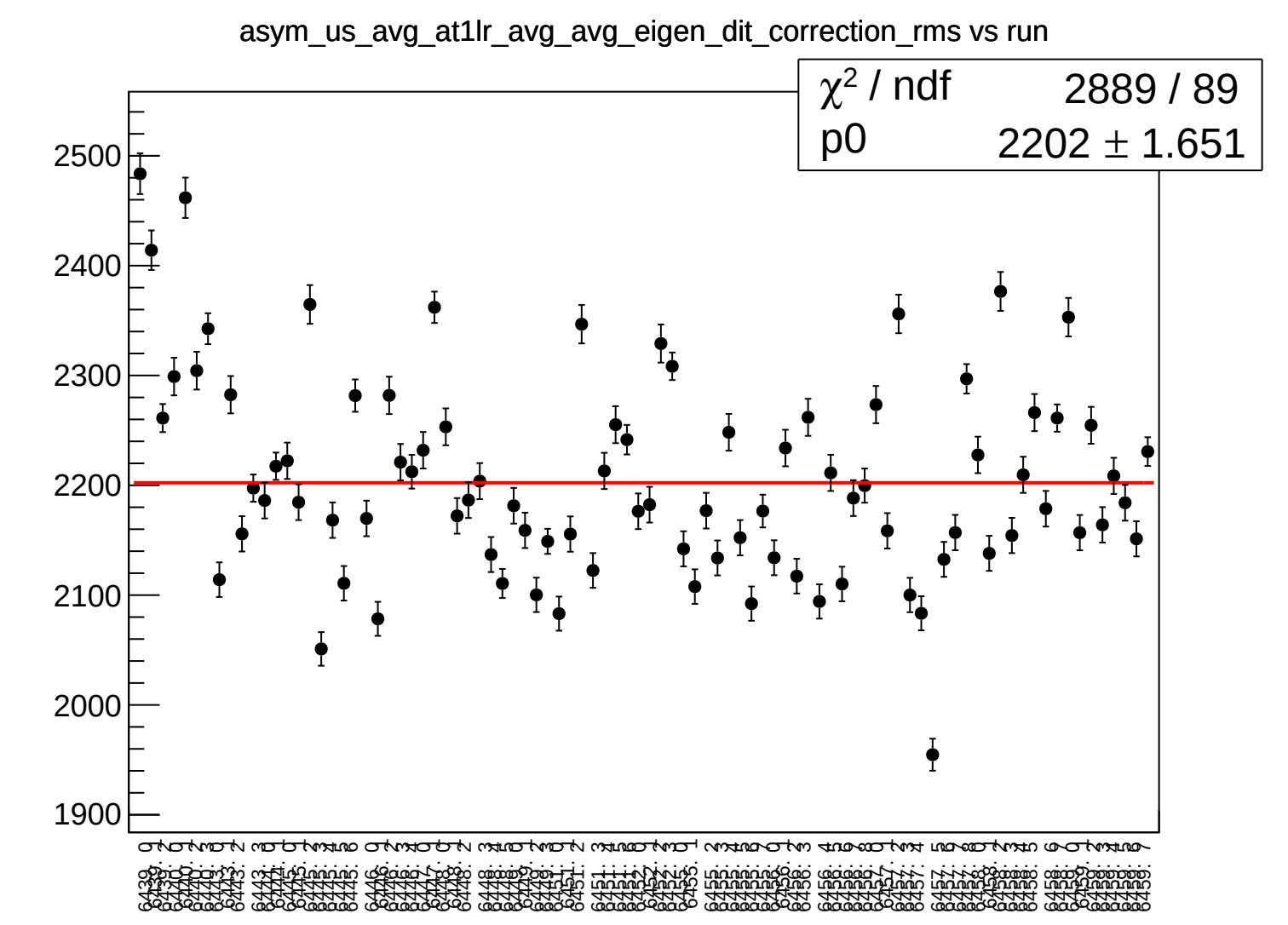

eigen_dit_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 96.02 / 89
p0 1889 ± 2325
pull
Entries 90
Mean 319.9
Std Dev 0

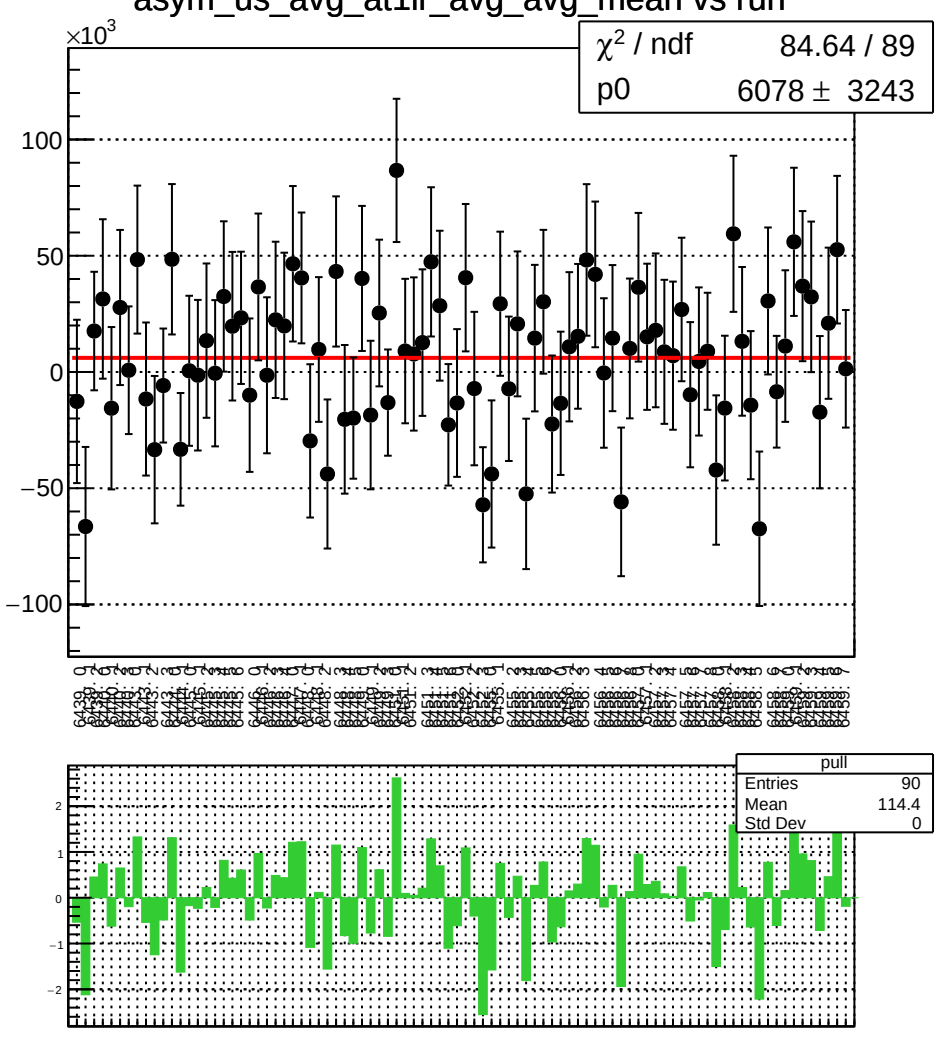

pull1D
Entries 90
Mean 0.01697
Std Dev 1.033

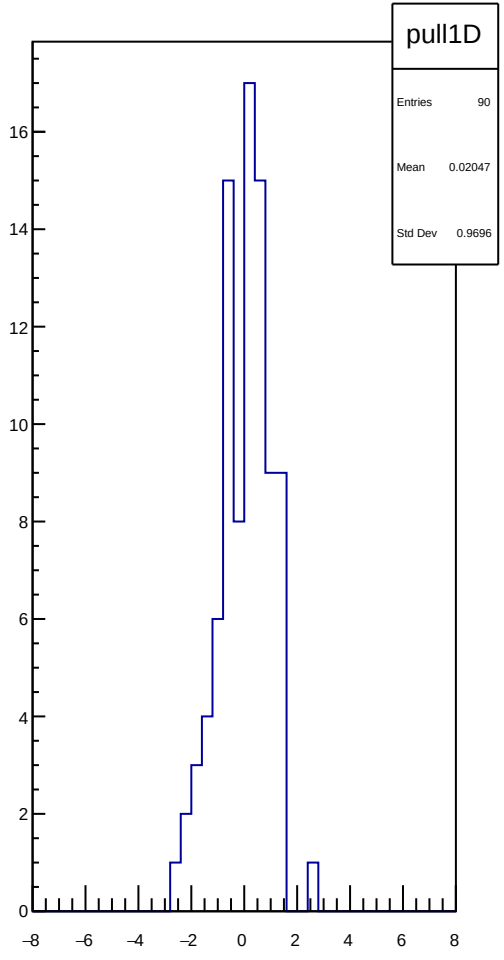

eigen_dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 147.7 / 89
p0 2194 ± 1.644
2280
2260
2240
2220
2200
2180
2160
2140
2120

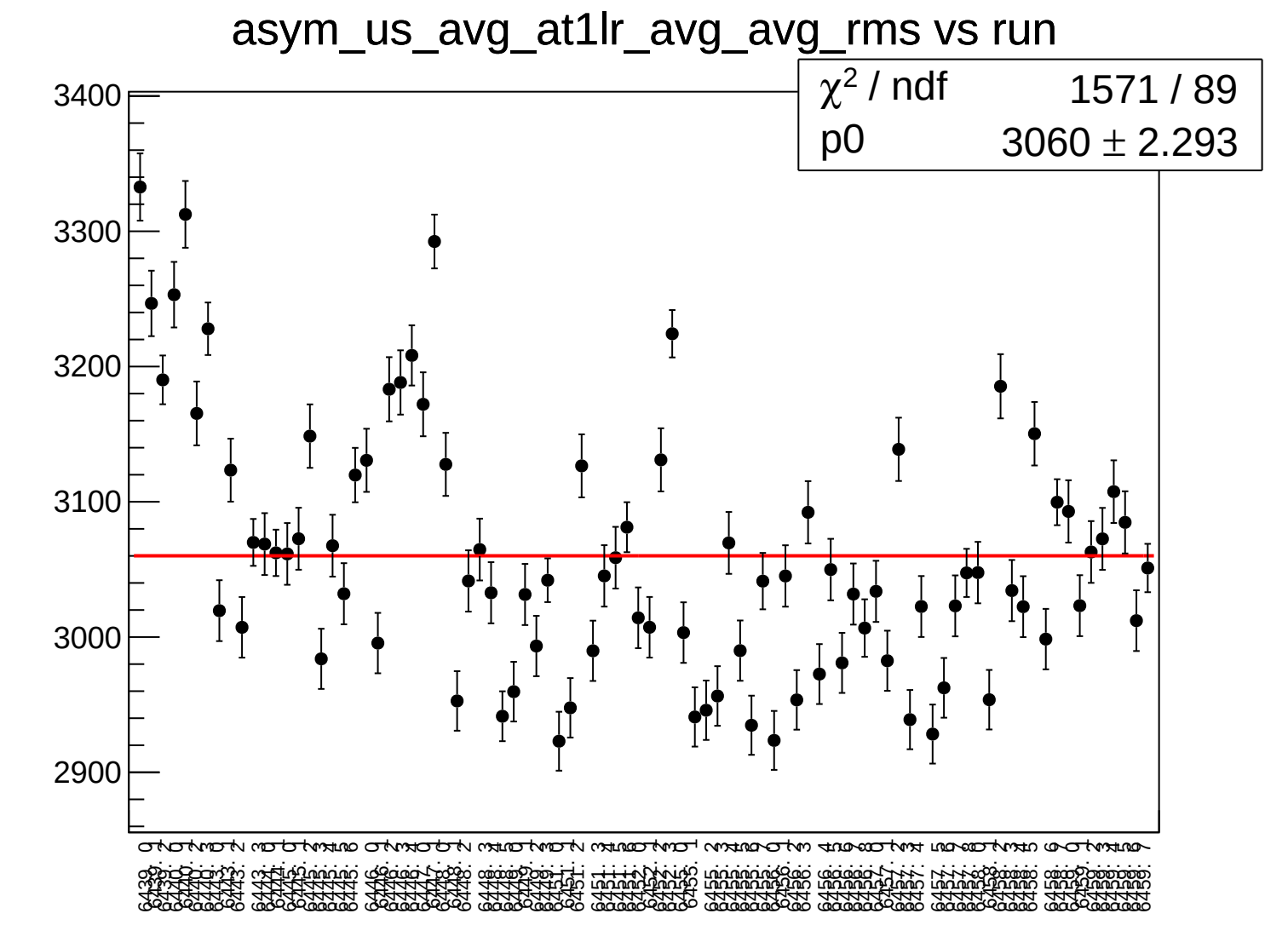

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_mean vs run
χ² / ndf 79.97 / 89
p0 −3902 ± 2335
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 90
Mean −100.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

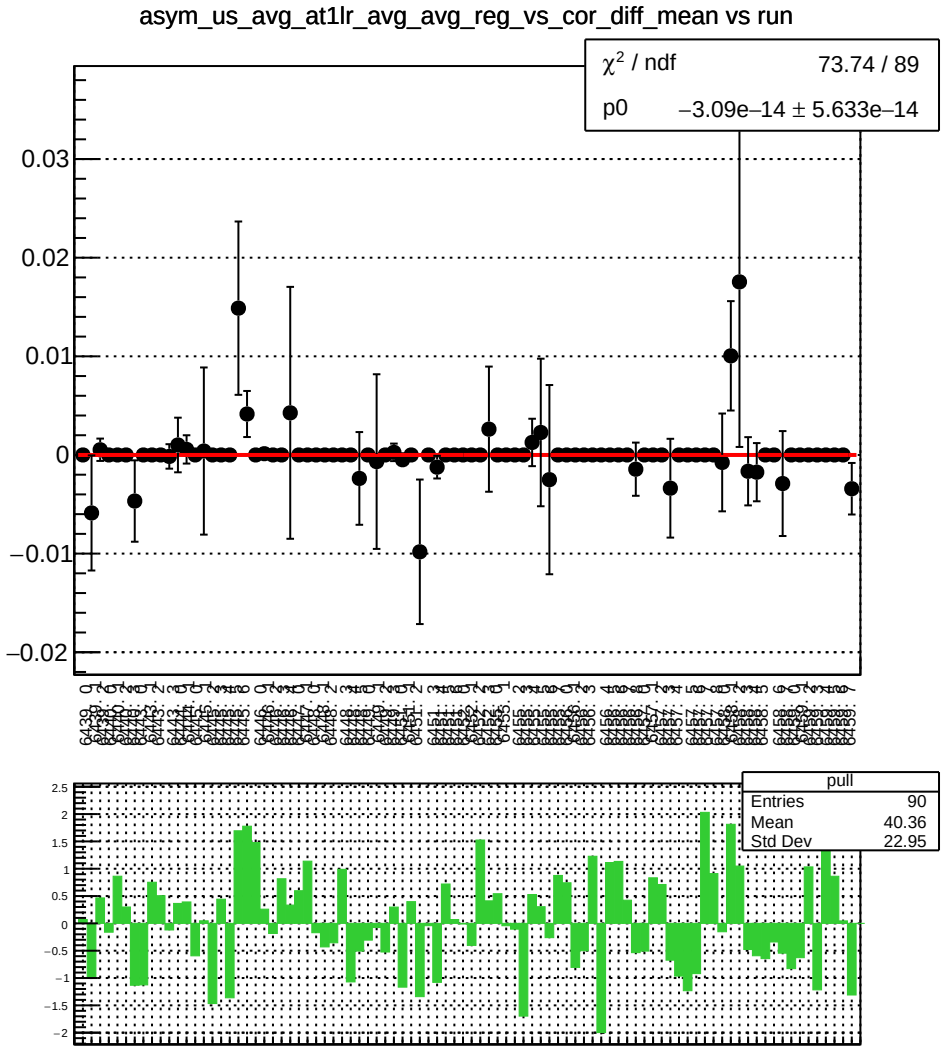

pull1D
Entries 90
Mean −0.0175
Std Dev 0.9425
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

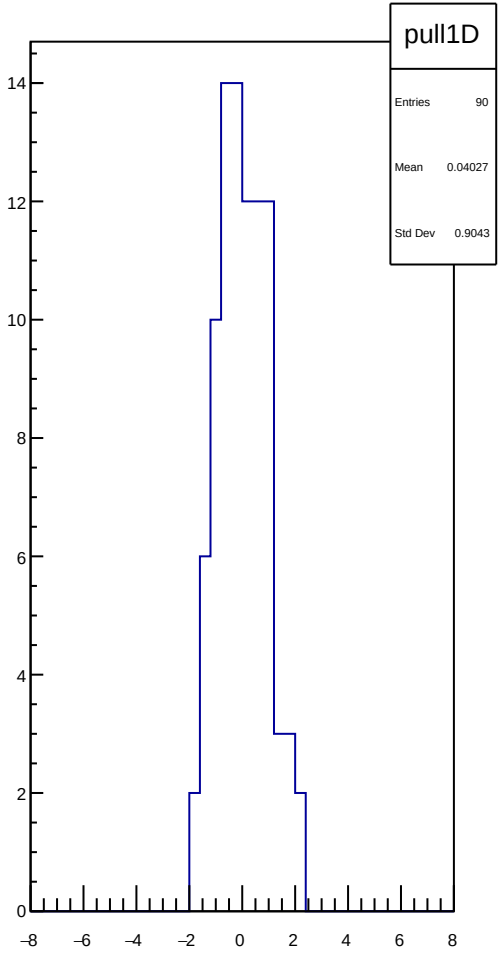

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 2889 / 89
p0 2202 ± 1.651
2500
2400
2300
2200
2100
2000
1900

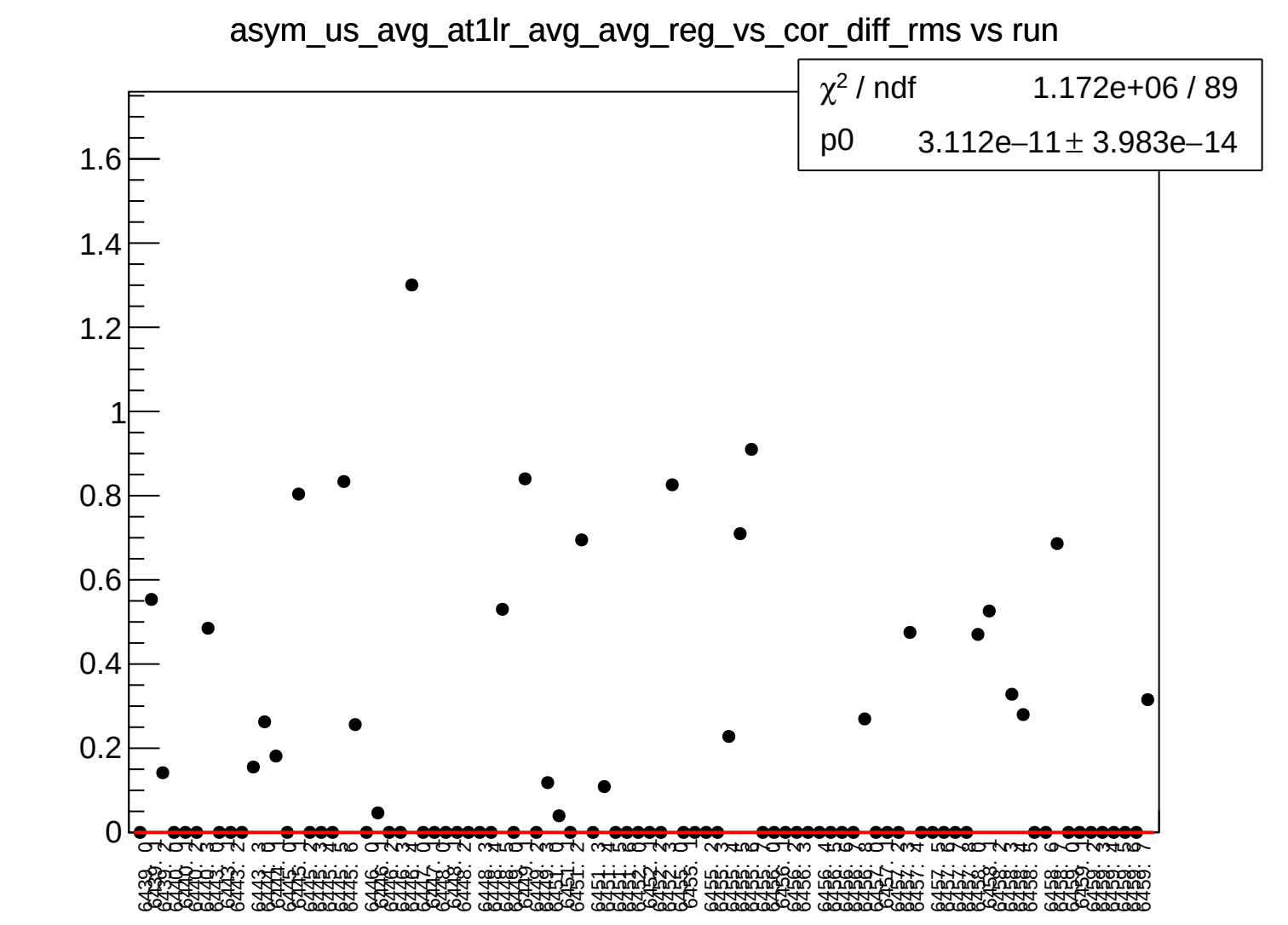

asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 84.64 / 89
p0 6078 ± 3243
100
50
0
−50
−100
pull
Entries 90
Mean 114.4
Std Dev 0
2
1
0
−1
−2

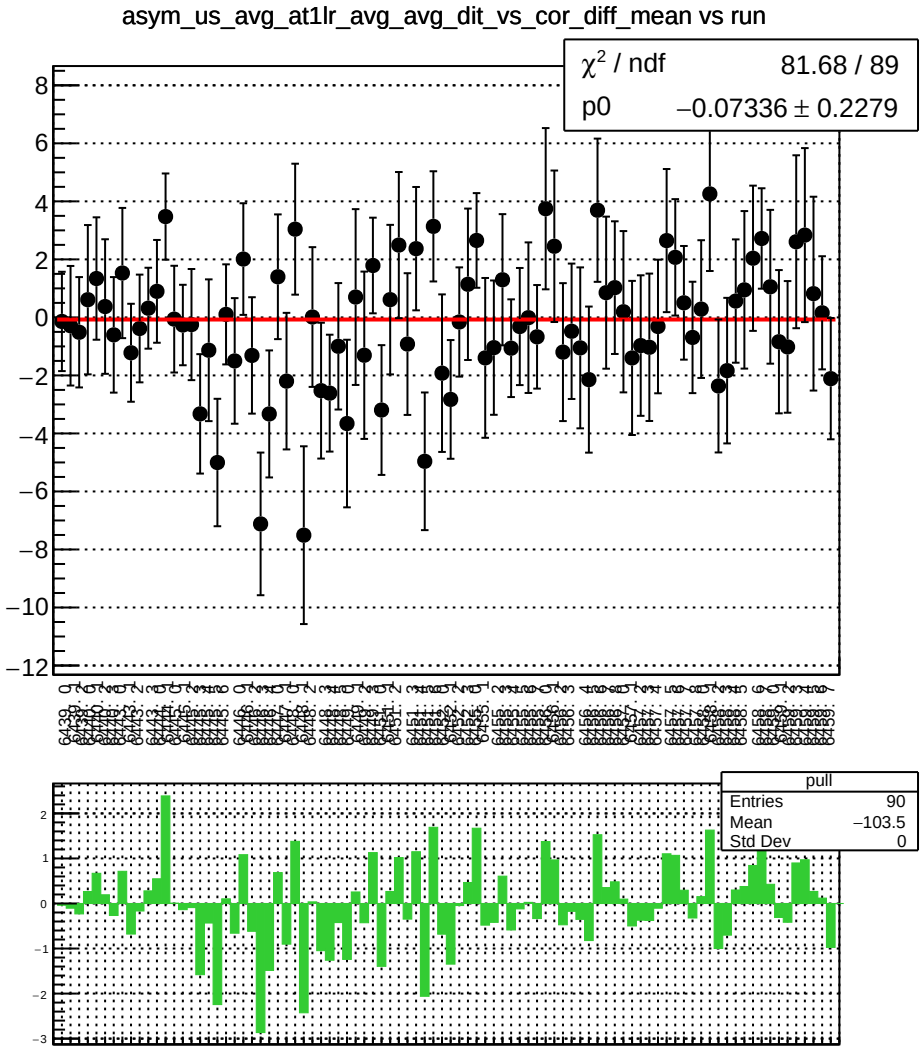

pull1D
Entries 90
Mean 0.02047
Std Dev 0.9696
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

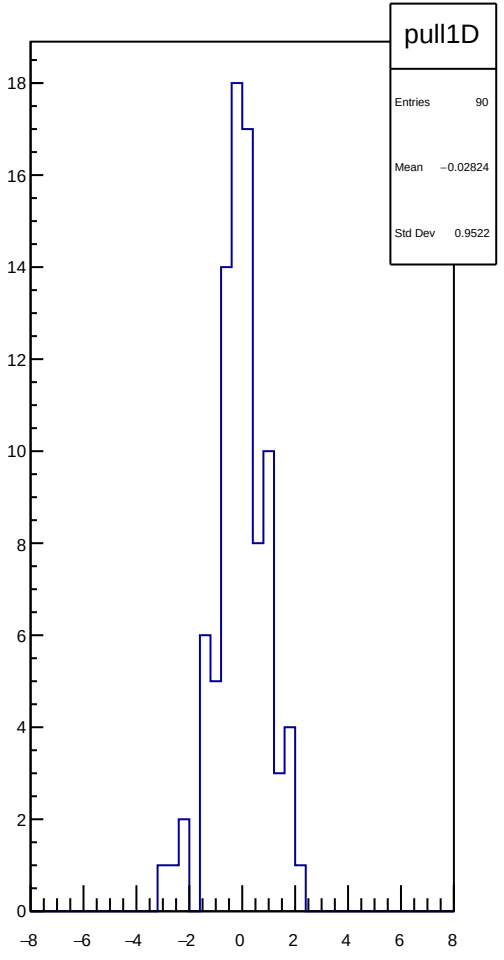

asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 1571 / 89
p0 3060 ± 2.293
3400
3300
3200
3100
3000
2900

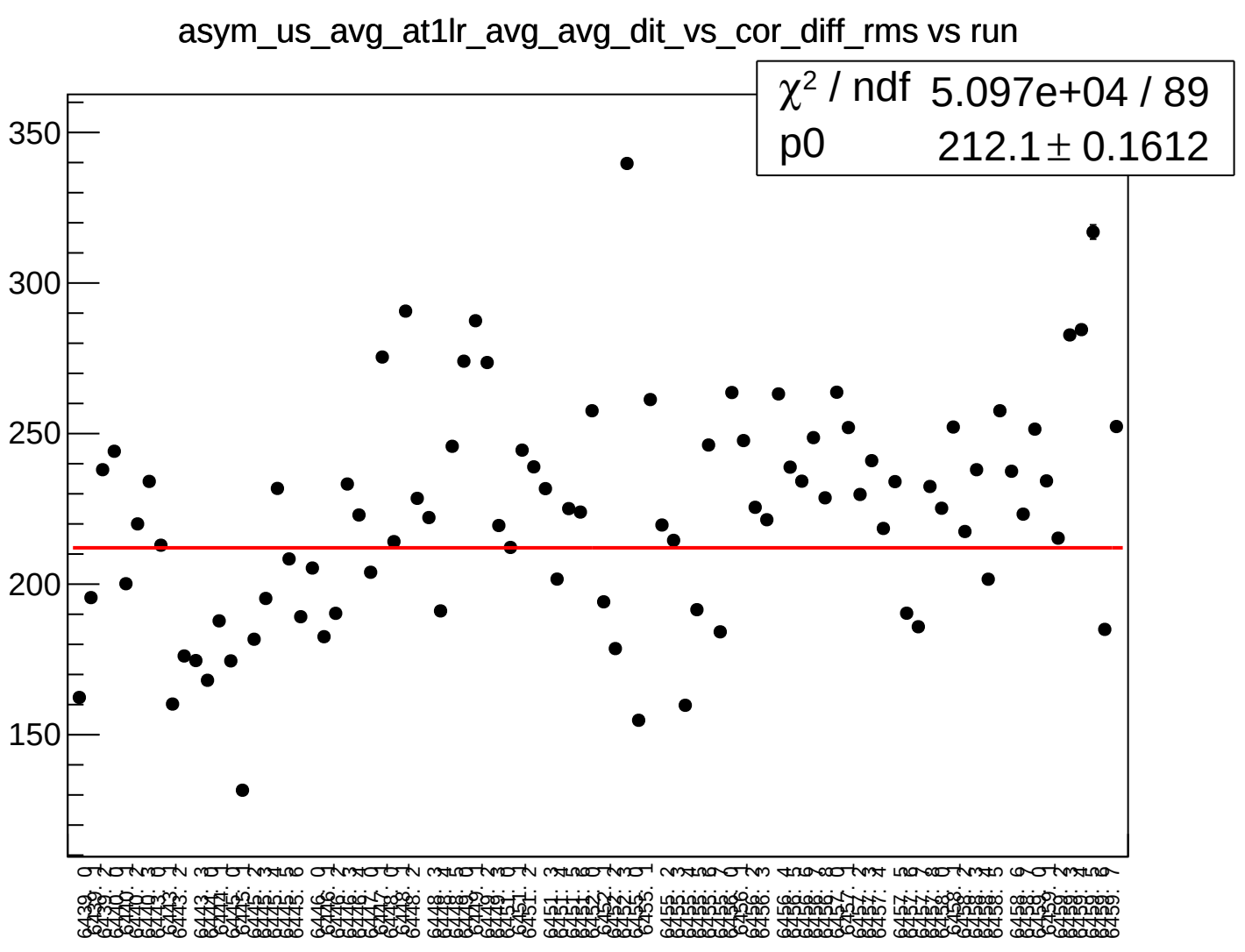

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 73.74 / 89
p0 −3.09e−14 ± 5.633e−14
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 90
Mean 40.36
Std Dev 22.95
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

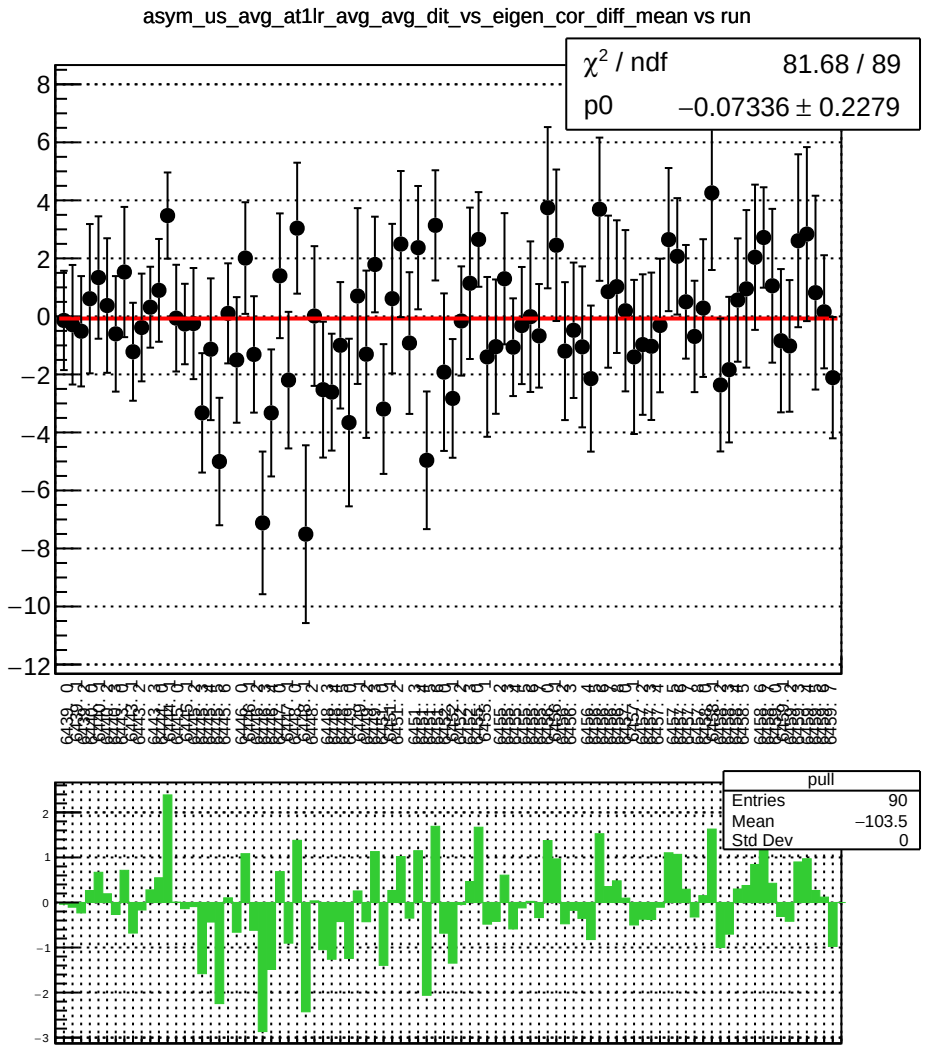

pull1D
Entries 90
Mean 0.04027
Std Dev 0.9043
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

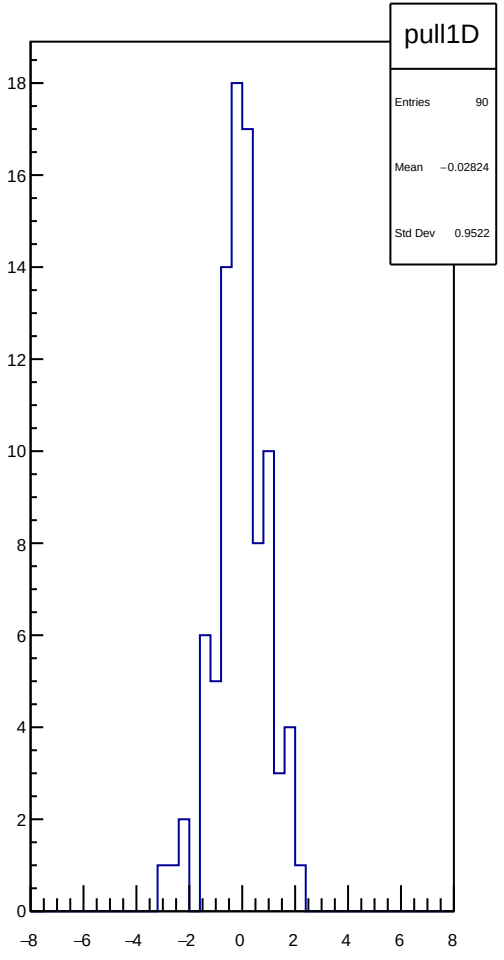

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.172e+06 / 89
p0 3.112e−11 ± 3.983e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

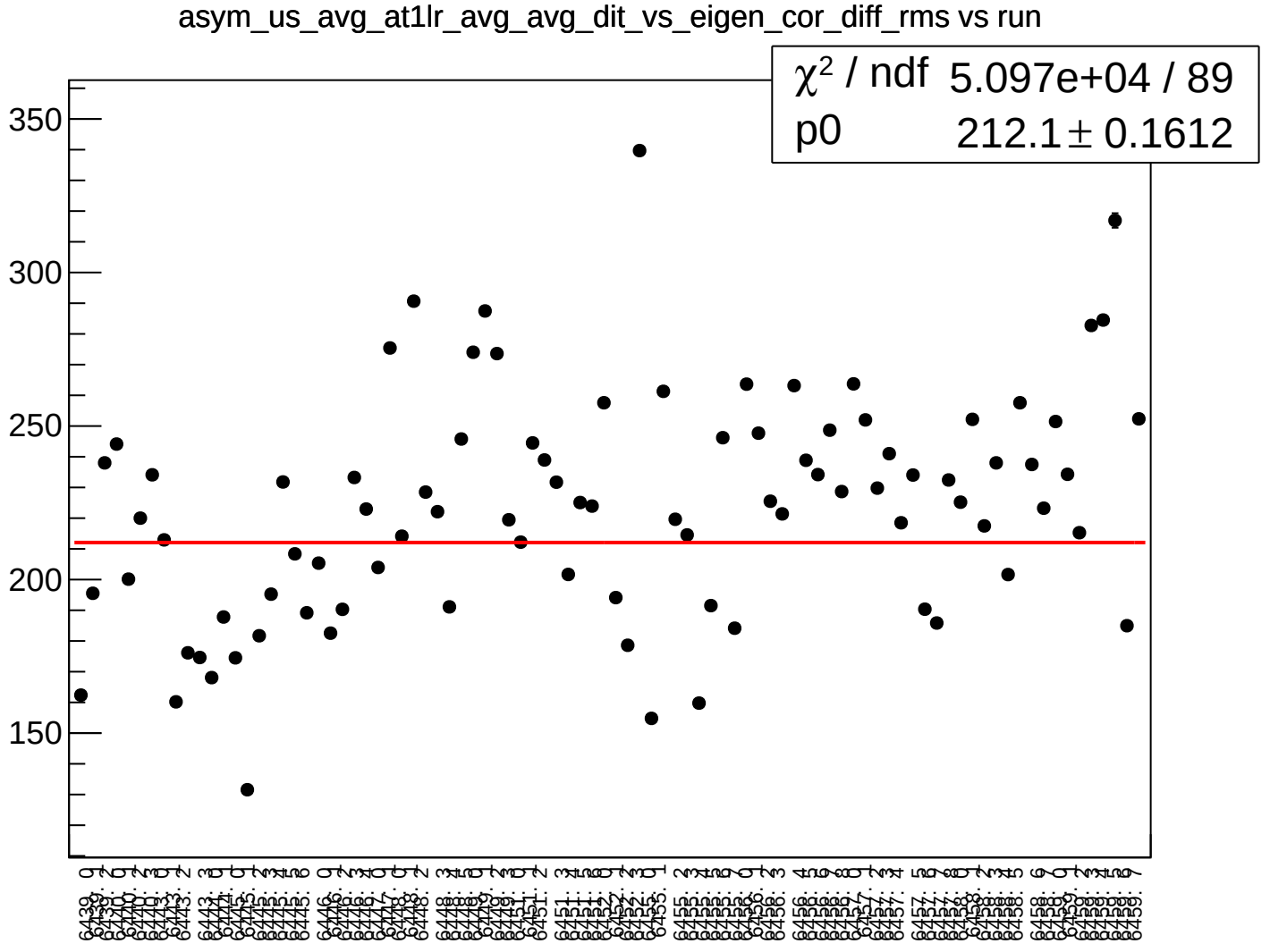

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 81.68 / 89
p0 −0.07336 ± 0.2279
pull
Entries 90
Mean −103.5
Std Dev 0

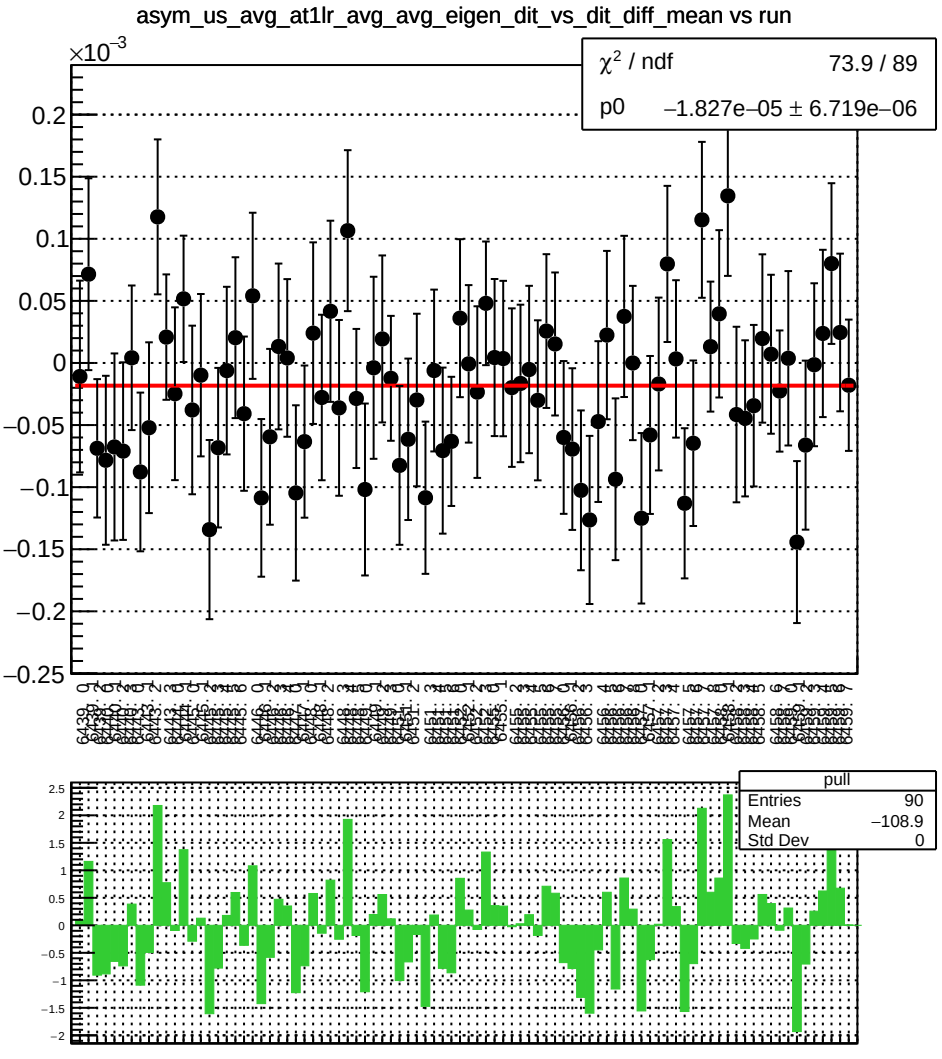

pull1D
Entries 90
Mean −0.02824
Std Dev 0.9522

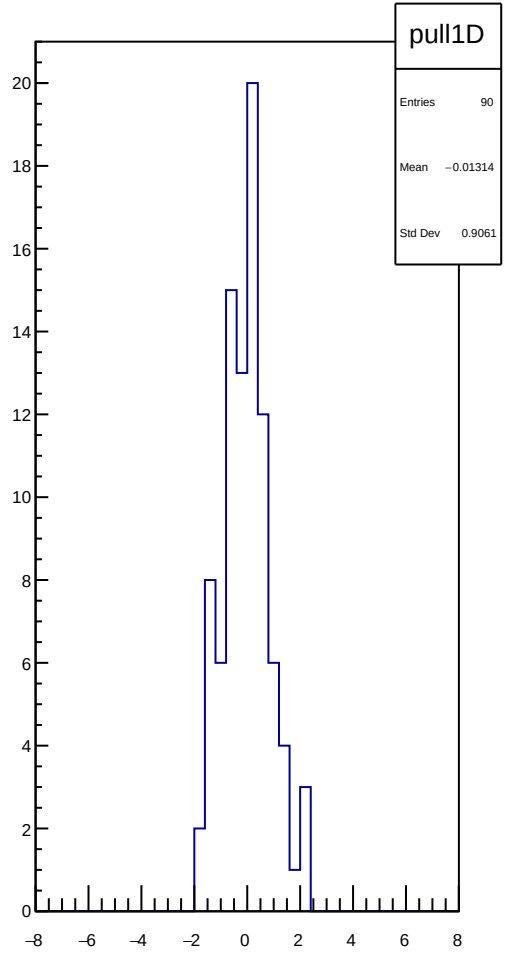

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.097e+04 / 89
p0 212.1 ± 0.1612
350
300
250
200
150

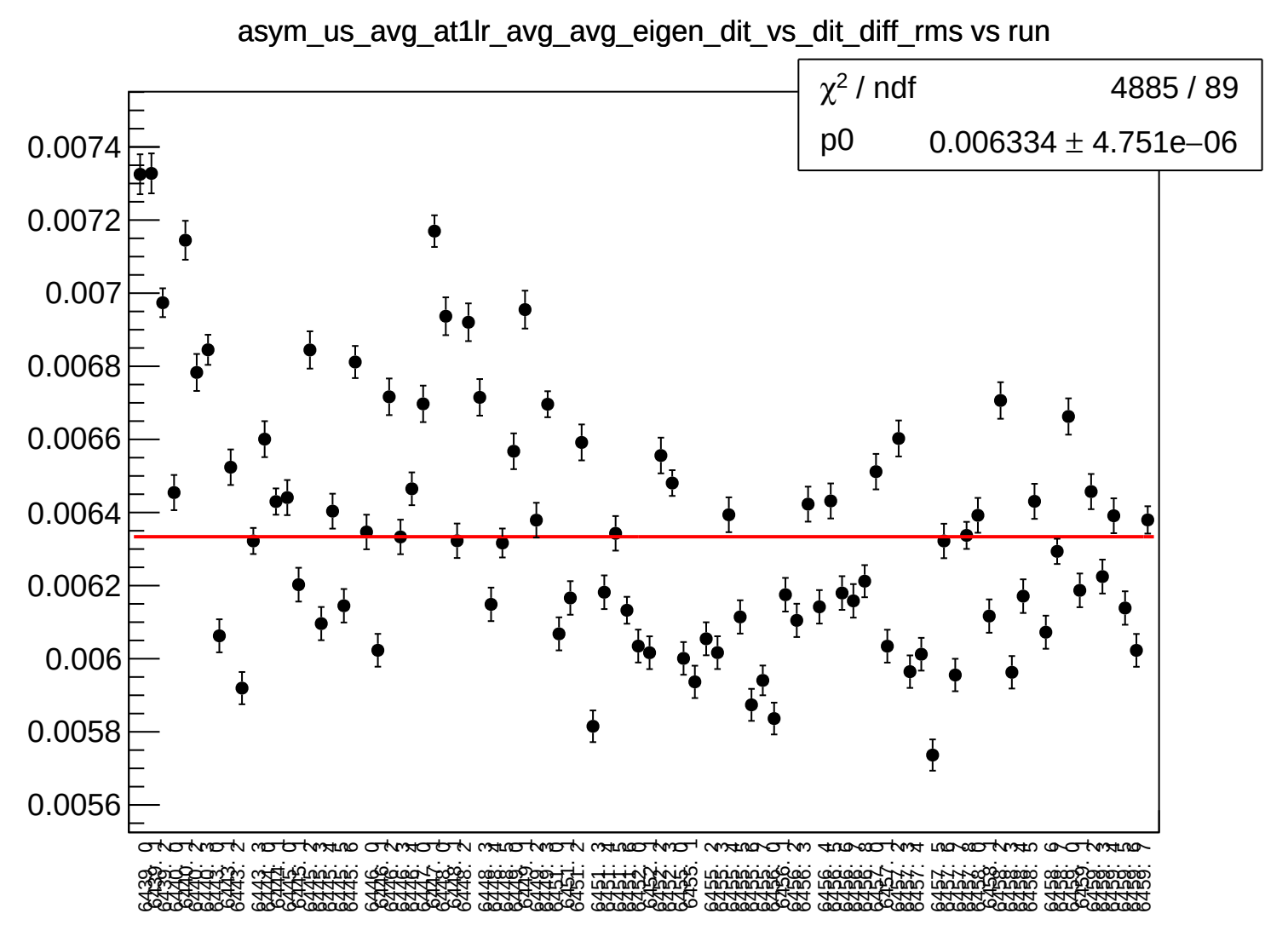

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.68 / 89
p0 −0.07336 ± 0.2279
pull
Entries 90
Mean −103.5
Std Dev 0

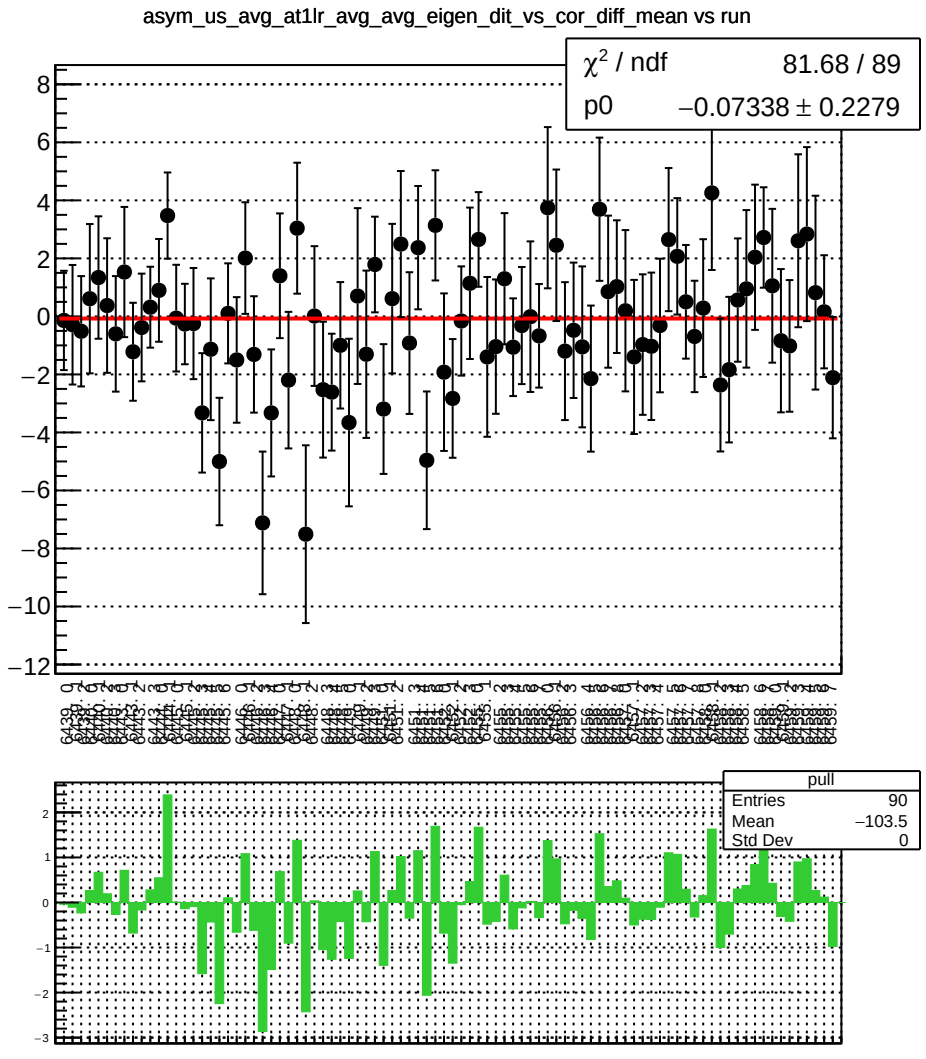

pull1D
Entries 90
Mean −0.02824
Std Dev 0.9522

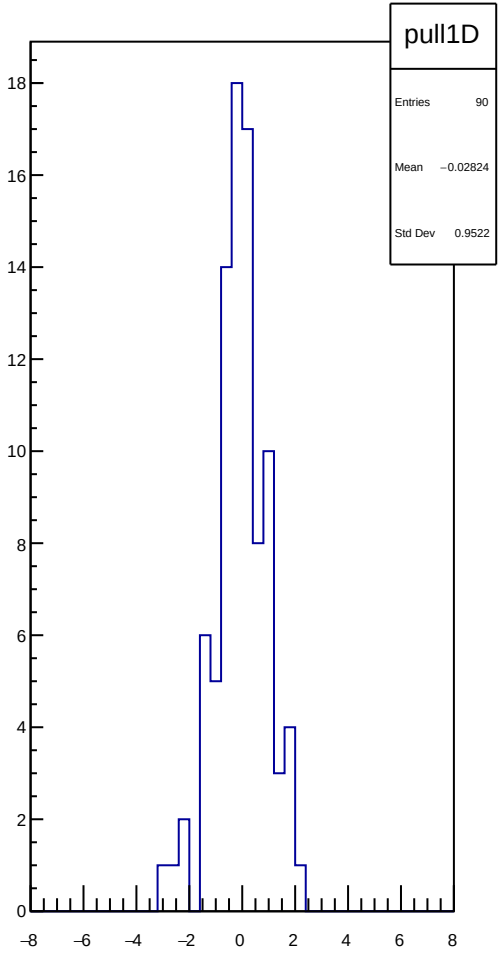

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.097e+04 / 89
p0 212.1 ± 0.1612
350
300
250
200
150

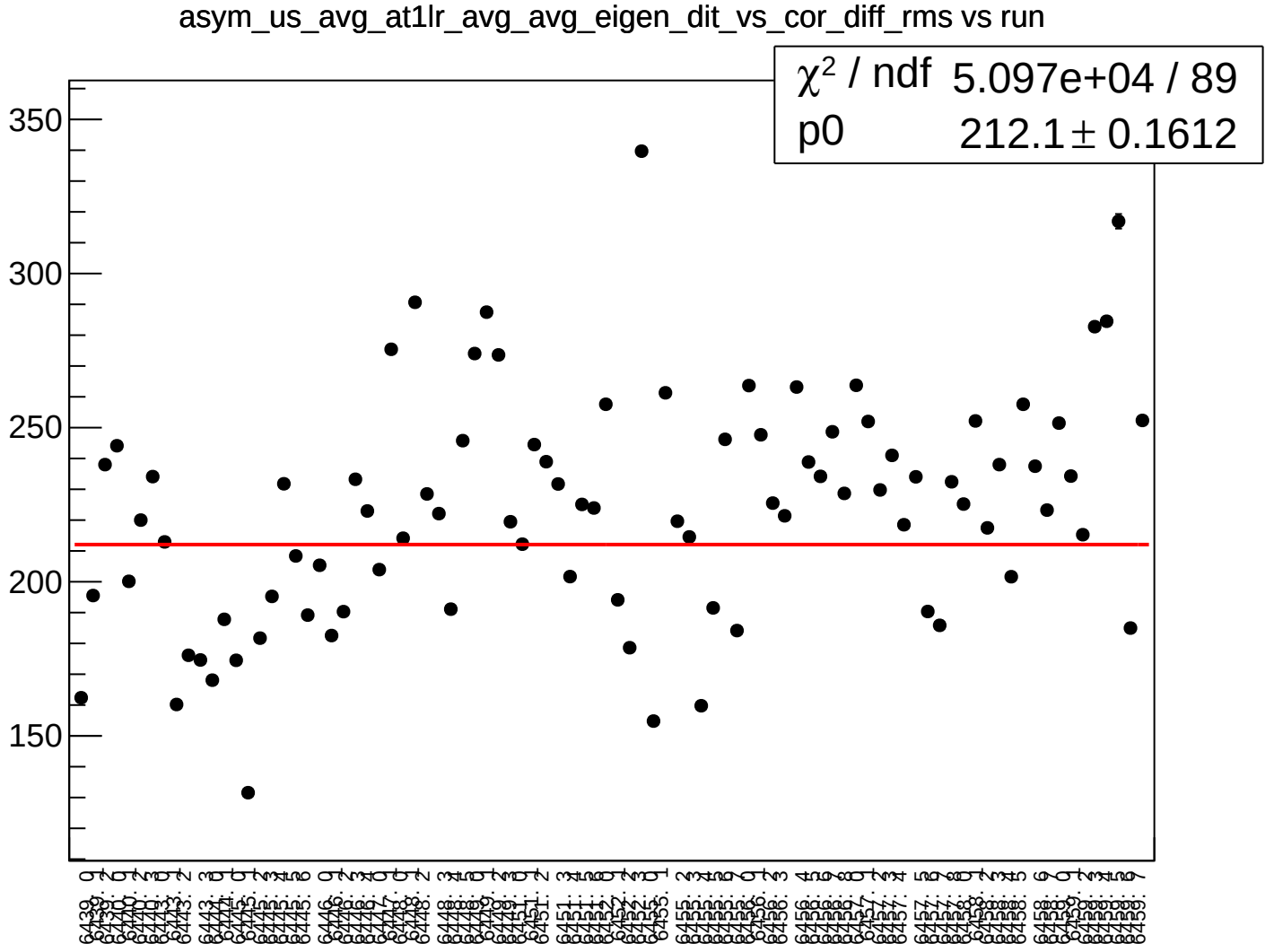

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.9 / 89
p0 −1.827e−05 ± 6.719e−06
pull
Entries 90
Mean −108.9
Std Dev 0

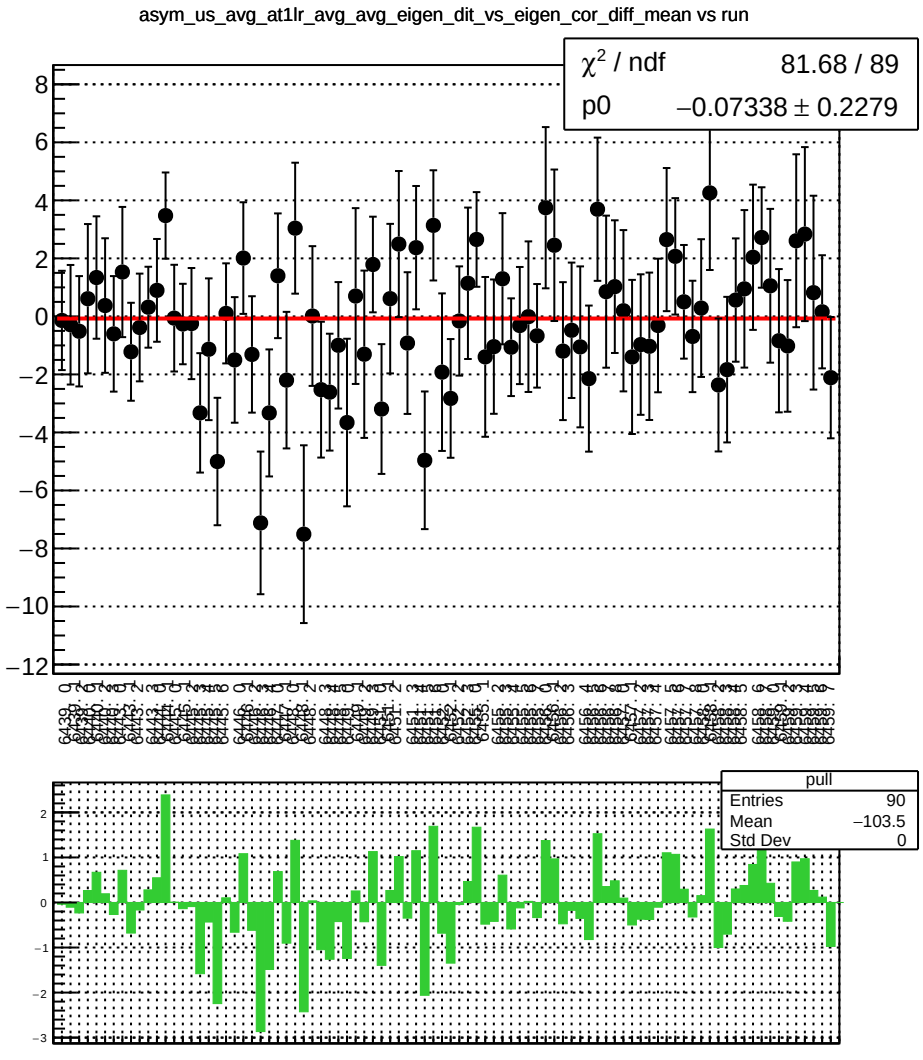

pull1D
Entries 90
Mean −0.01314
Std Dev 0.9061

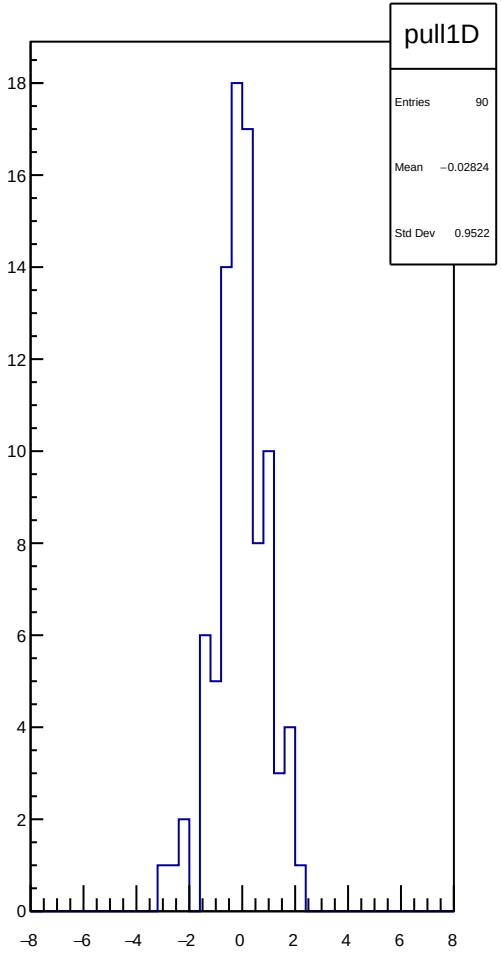

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4885 / 89
p0 0.006334 ± 4.751e−06
0.0074
0.0072
0.007
0.0068
0.0066
0.0064
0.0062
0.006
0.0058
0.0056

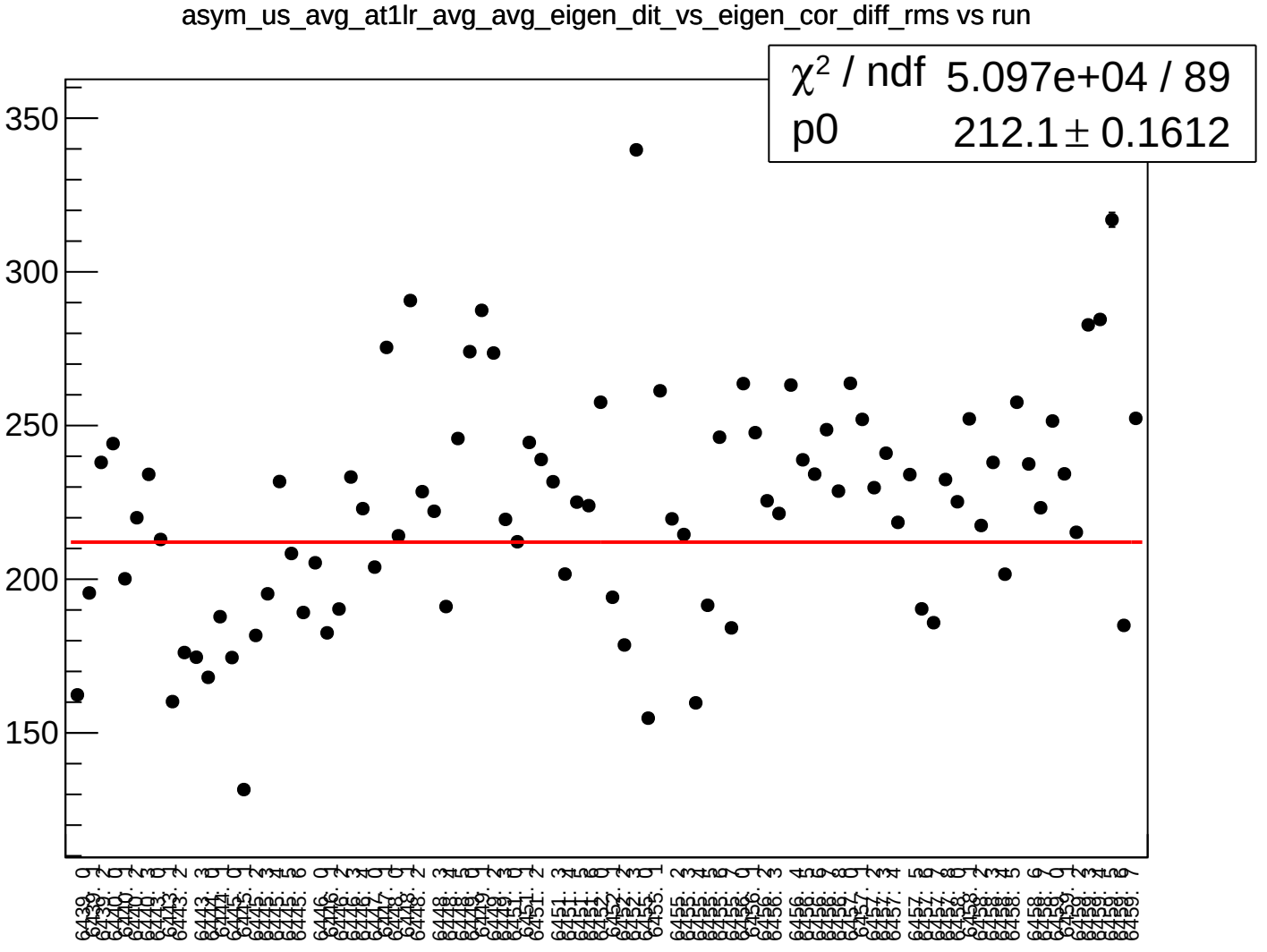

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.68 / 89
p0 −0.07338 ± 0.2279
pull
Entries 90
Mean −103.5
Std Dev 0

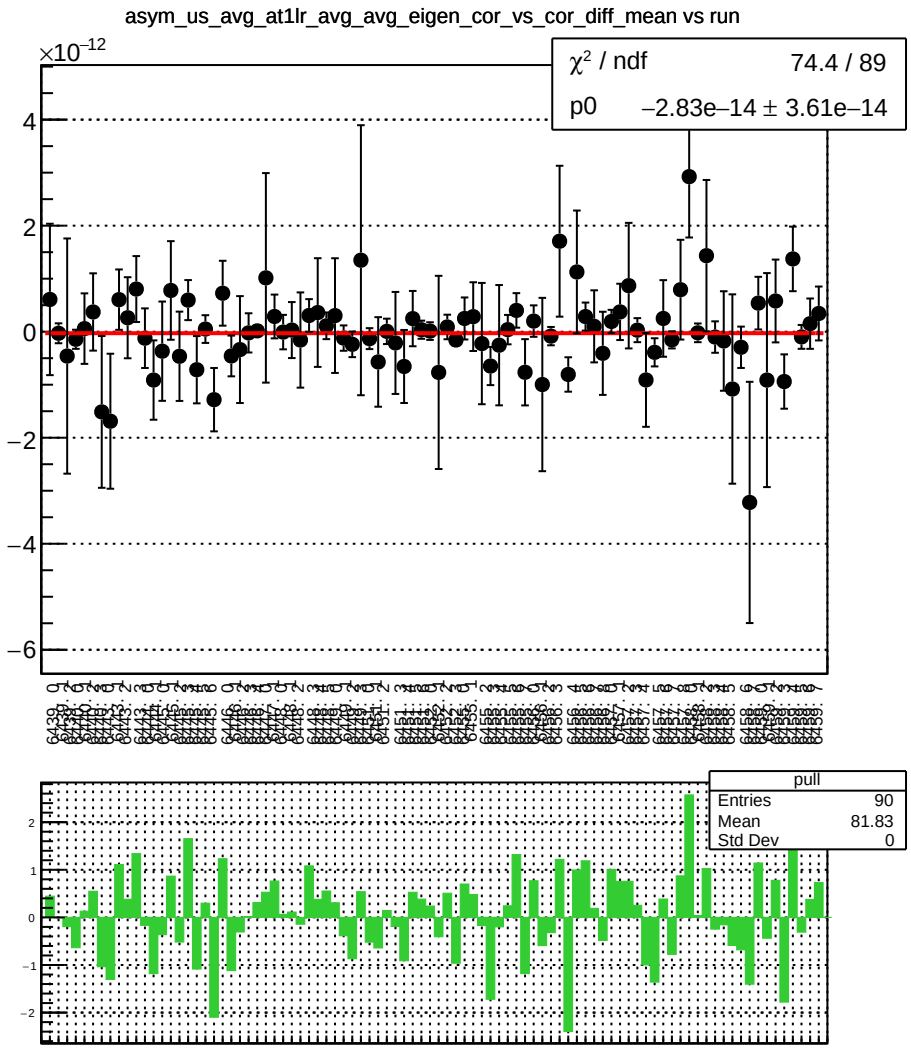

pull1D
Entries 90
Mean −0.02824
Std Dev 0.9522

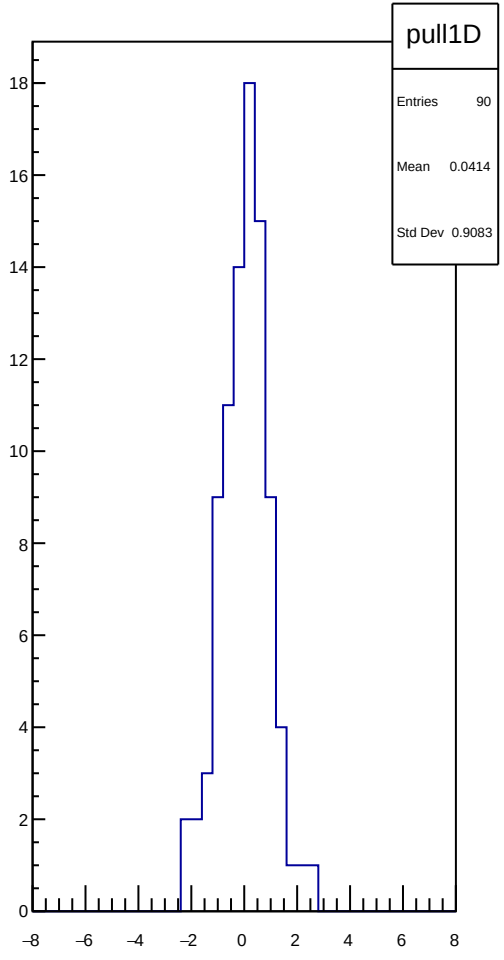

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.097e+04 / 89
p0 212.1 ± 0.1612
350
300
250
200
150

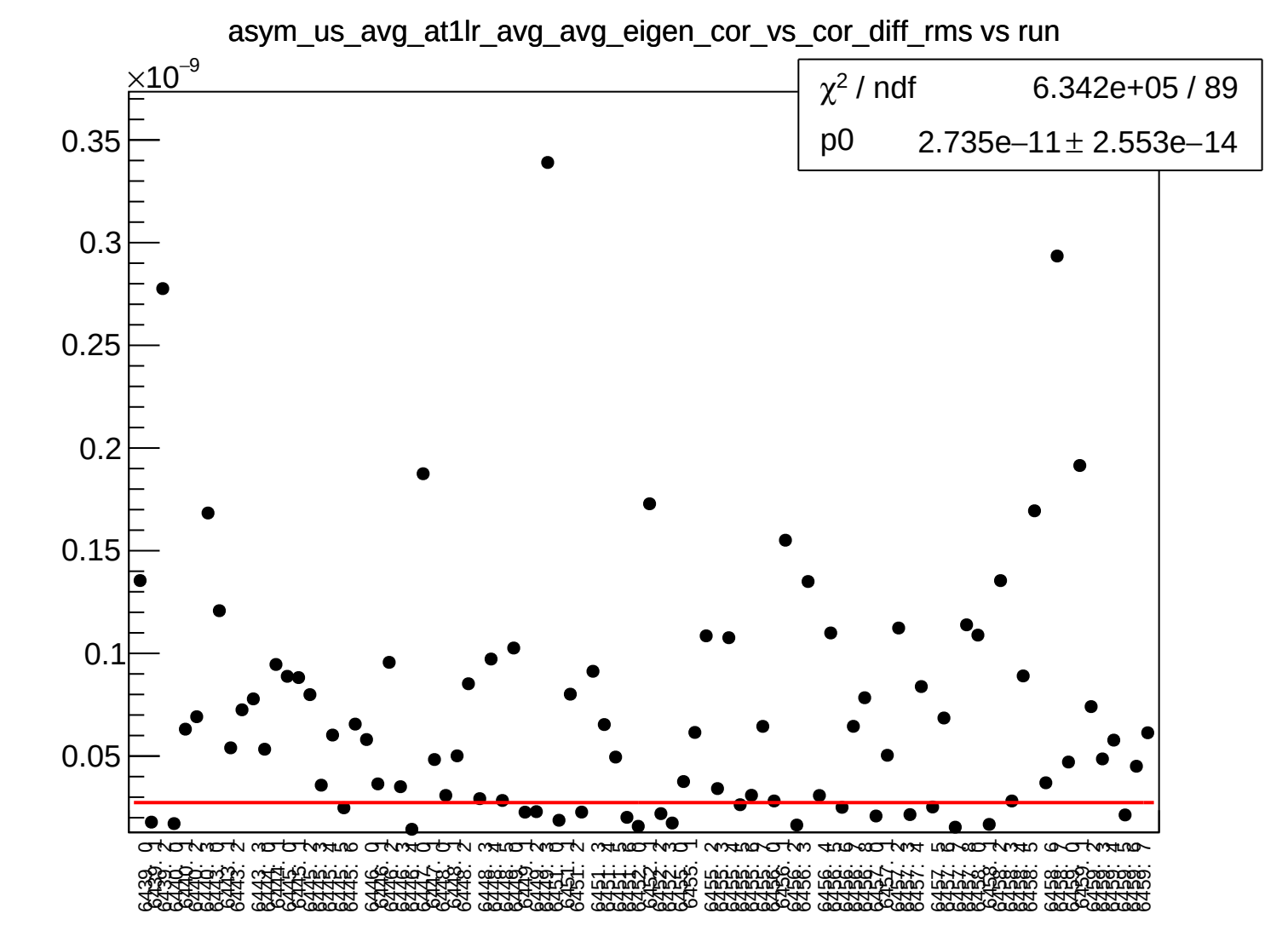

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.68 / 89
p0 −0.07338 ± 0.2279
pull
Entries 90
Mean −103.5
Std Dev 0

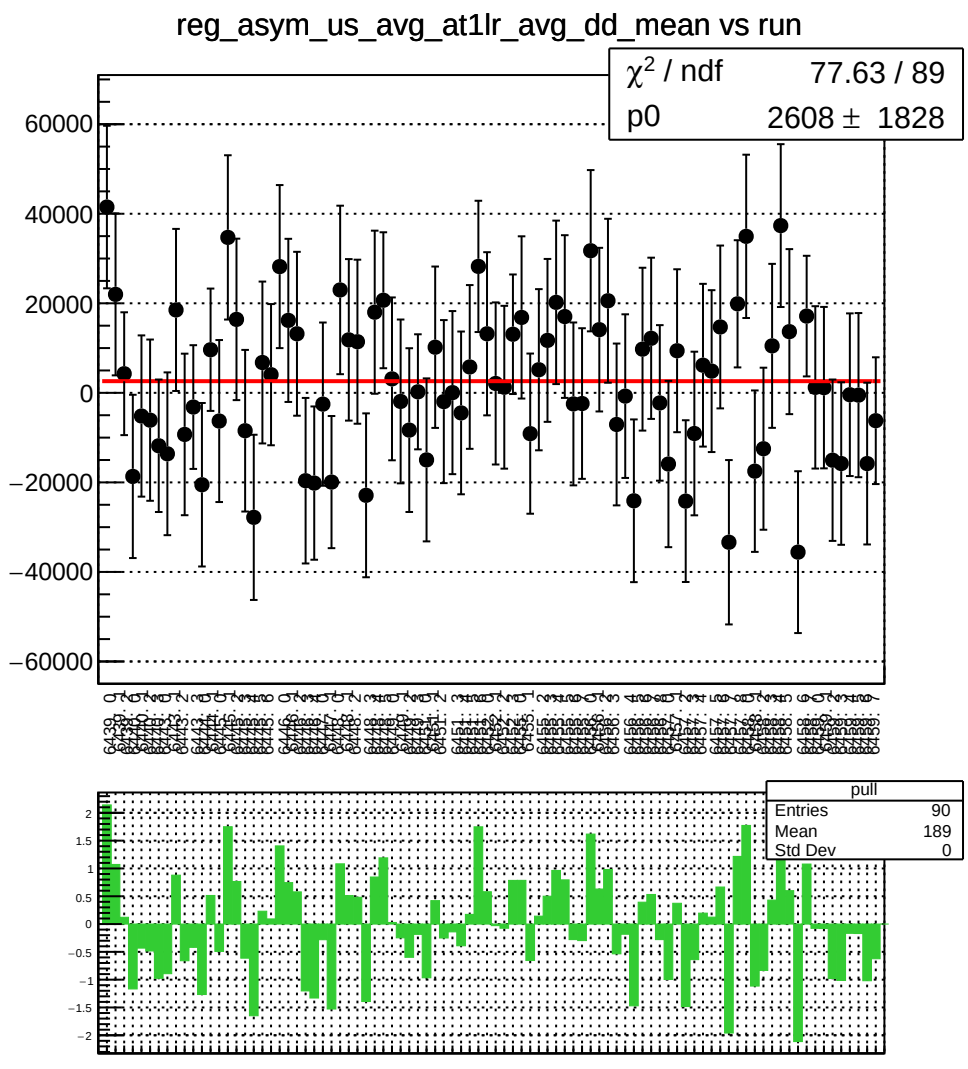

pull1D
Entries 90
Mean −0.02824
Std Dev 0.9522

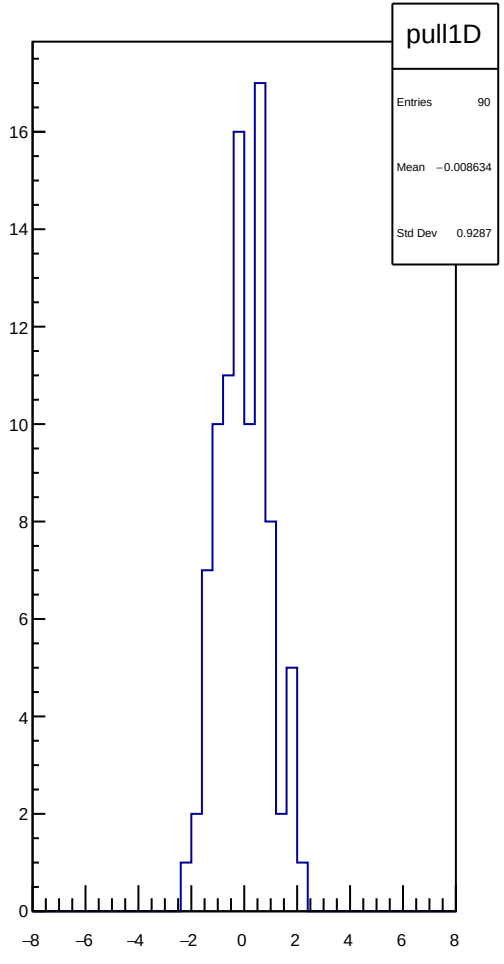

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.097e+04 / 89
p0 212.1 ± 0.1612
350
300
250
200
150

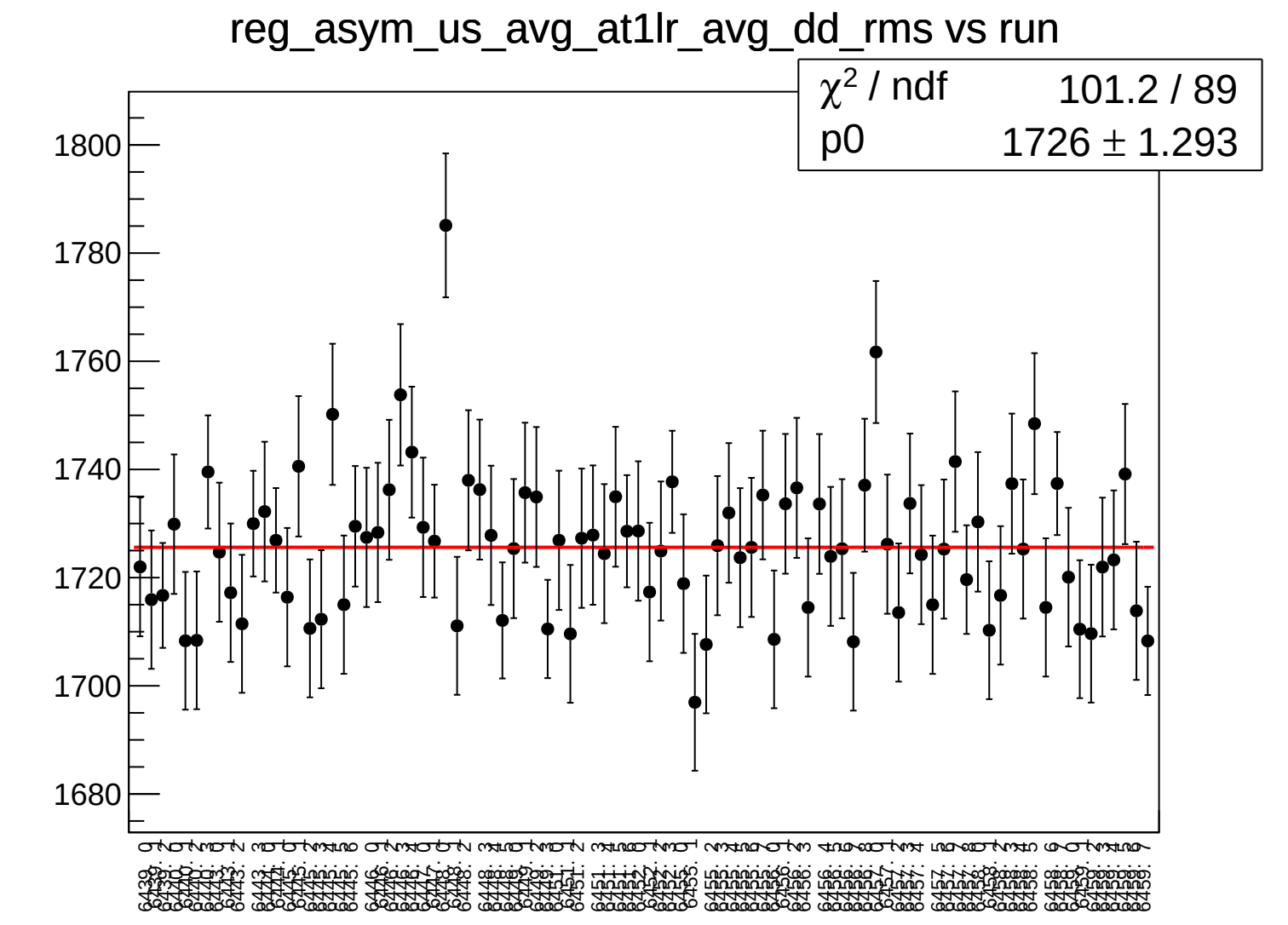

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 74.4 / 89
p0 −2.83e−14 ± 3.61e−14
pull
Entries 90
Mean 81.83
Std Dev 0

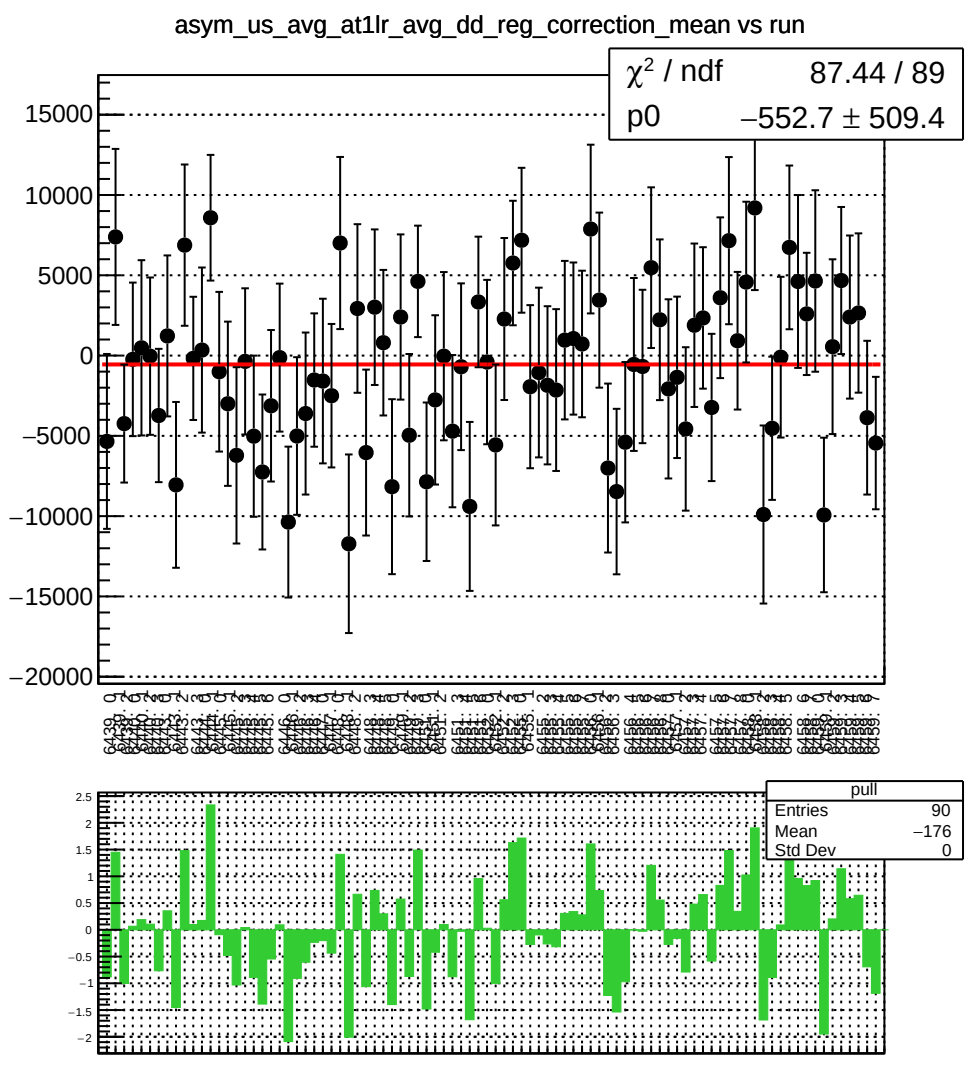

pull1D
Entries 90
Mean 0.0414
Std Dev 0.9083

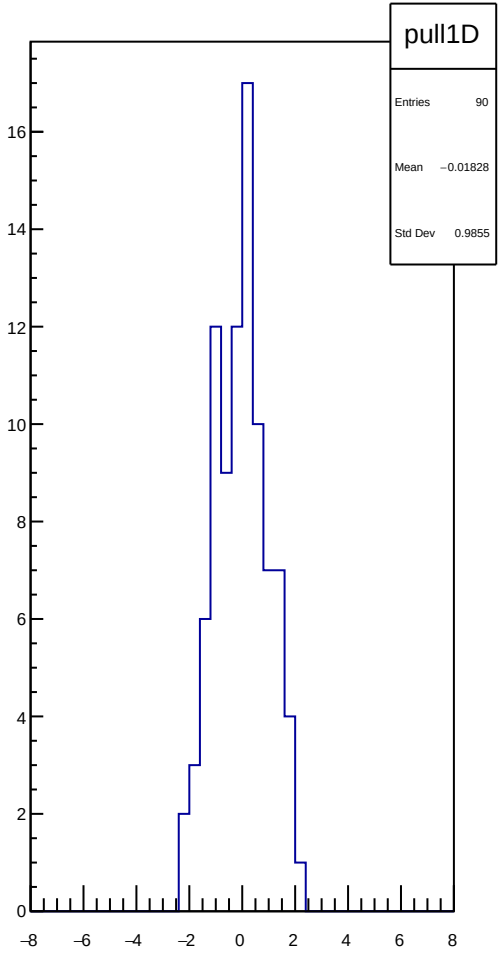

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.342e+05 / 89
p0 2.735e−11 ± 2.553e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

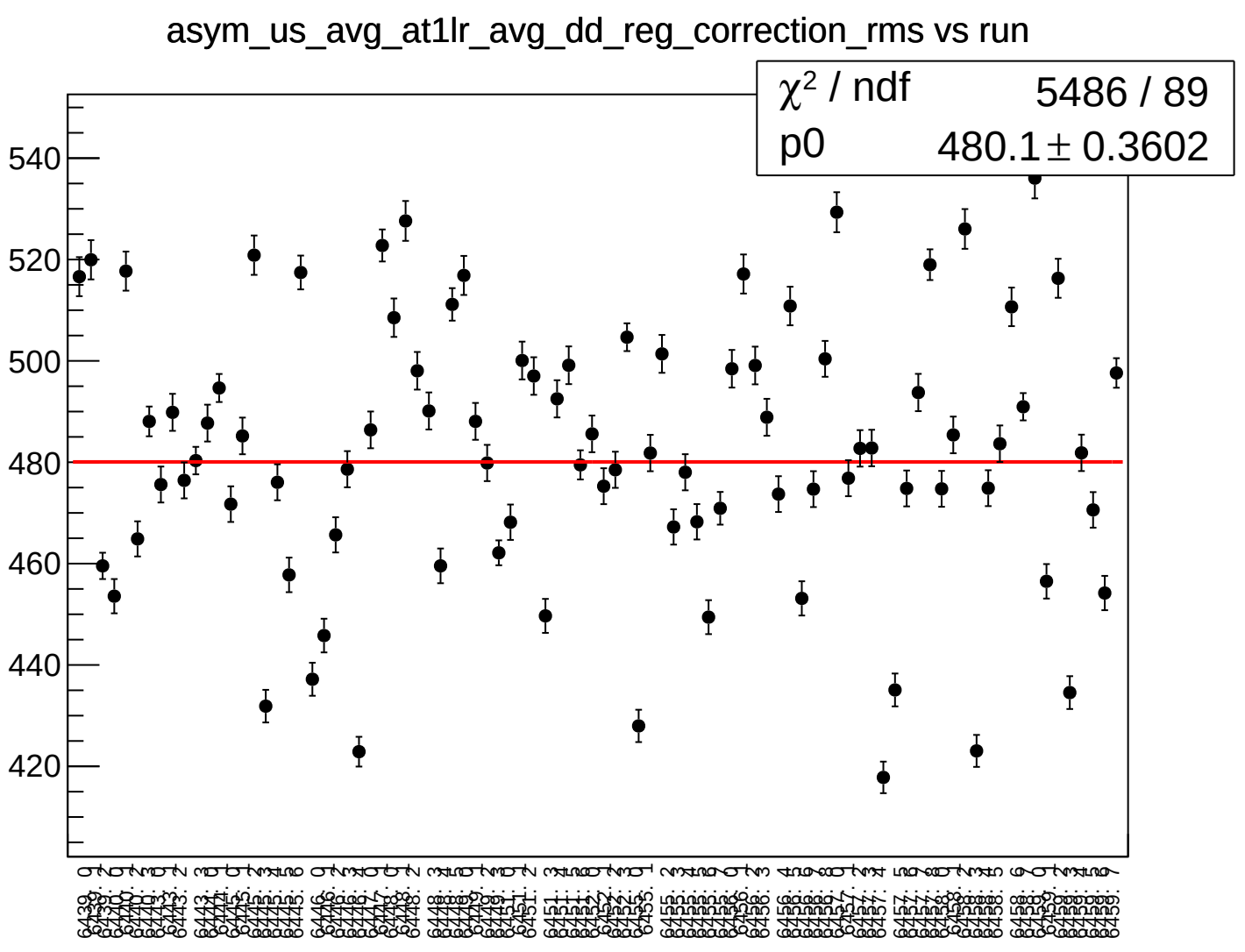

reg_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 77.63 / 89
p0 2608 ± 1828
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 189
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

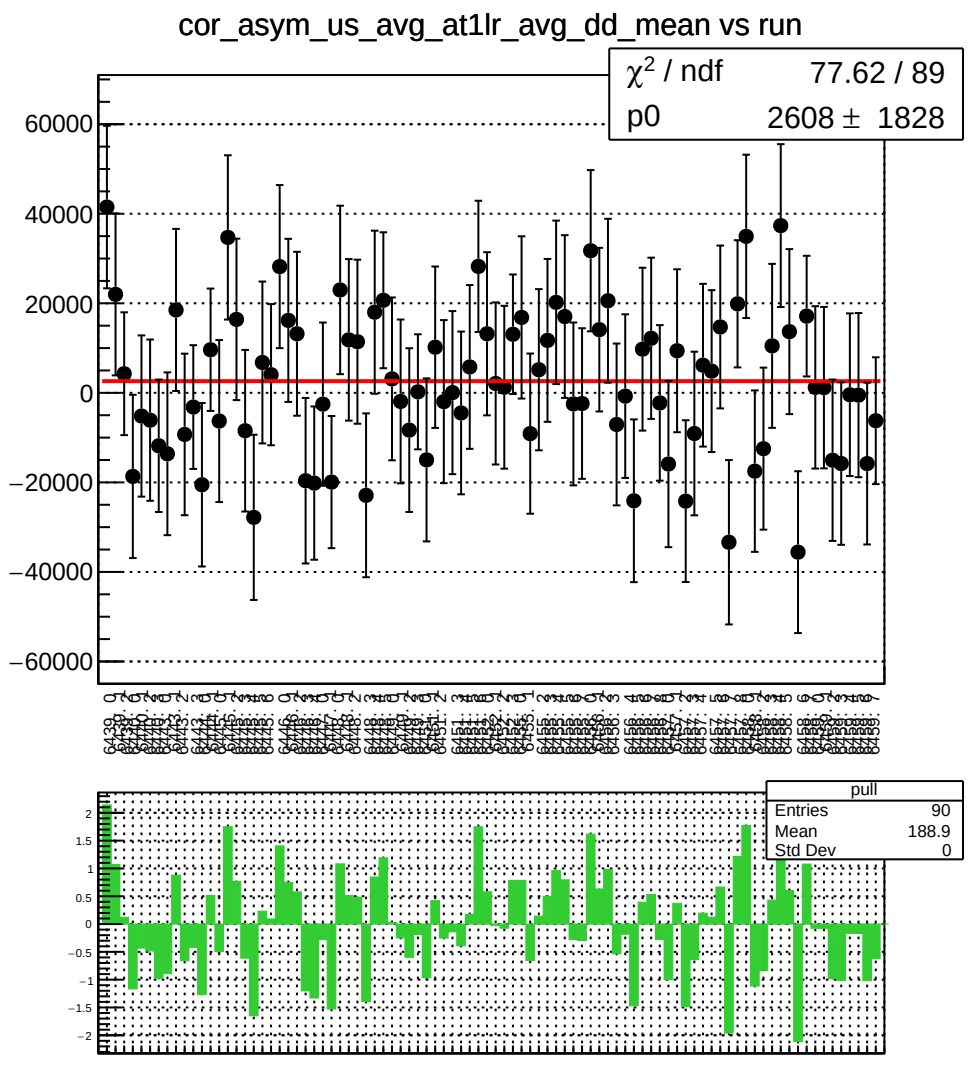

pull1D
Entries 90
Mean −0.008634
Std Dev 0.9287
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

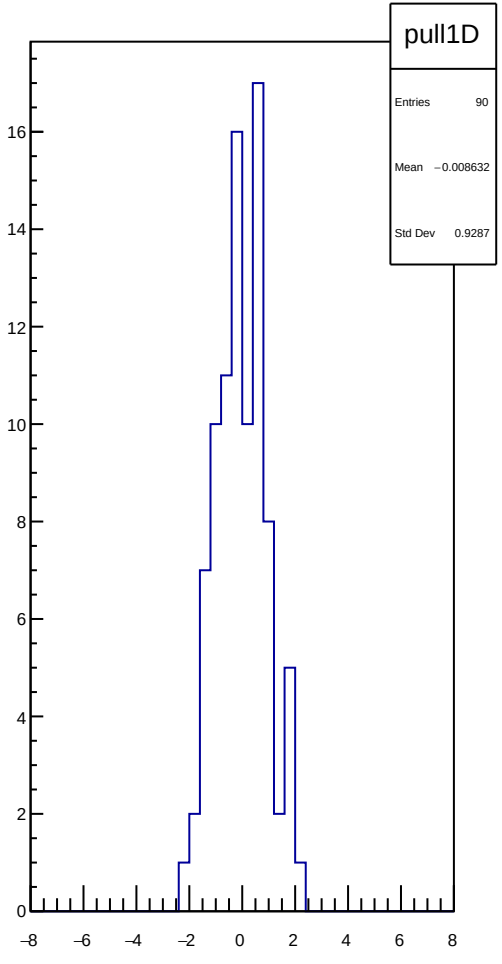

reg_asym_us_avg_at1lr_avg_dd_rms vs run
χ^2 / ndf 101.2 / 89
p0 1726 ± 1.293
1800
1780
1760
1740
1720
1700
1680

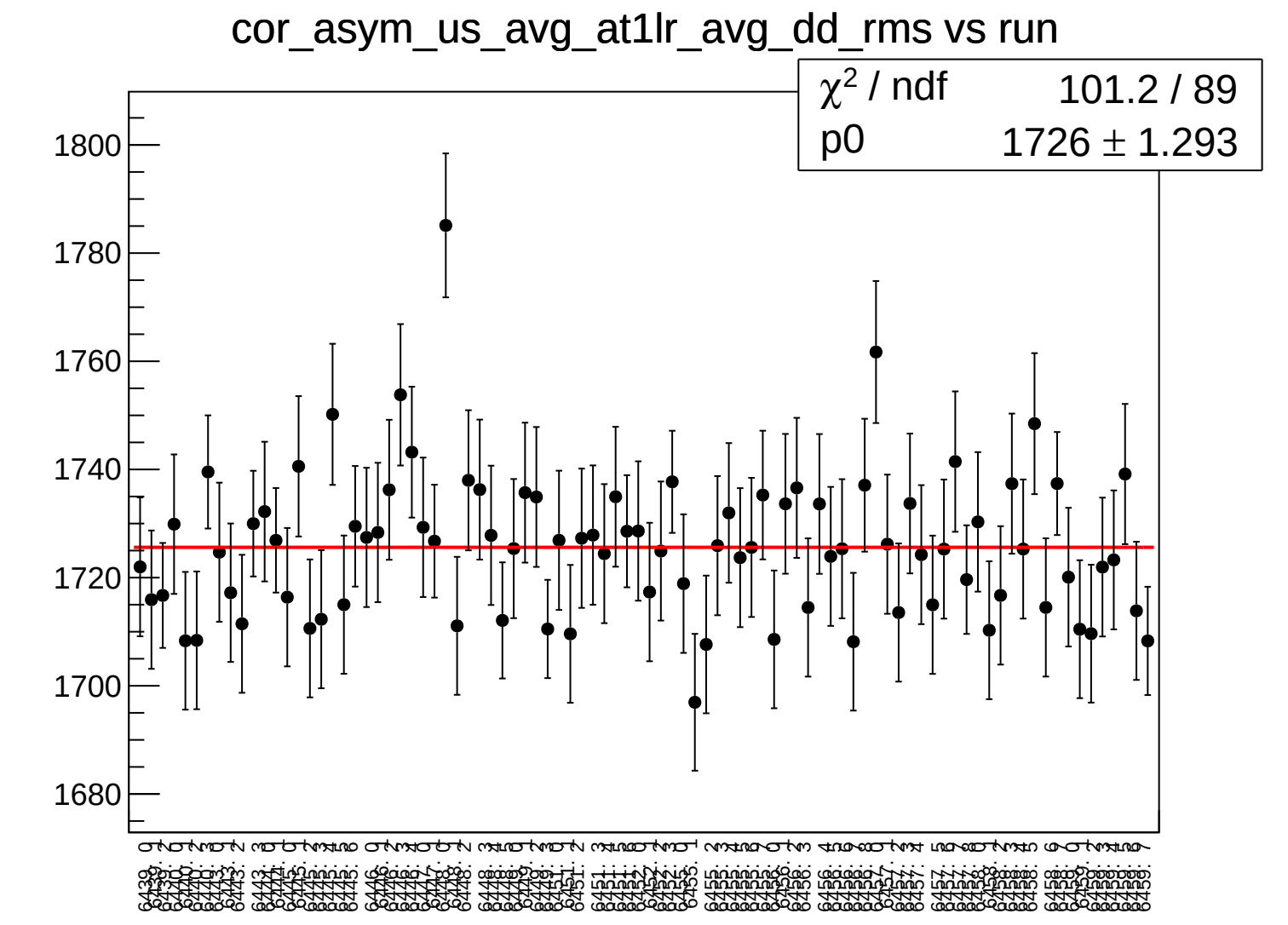

asym_us_avg_at1lr_avg_dd_reg_correction_mean vs run
χ² / ndf 87.44 / 89
p0 −552.7 ± 509.4
pull
Entries 90
Mean −176
Std Dev 0

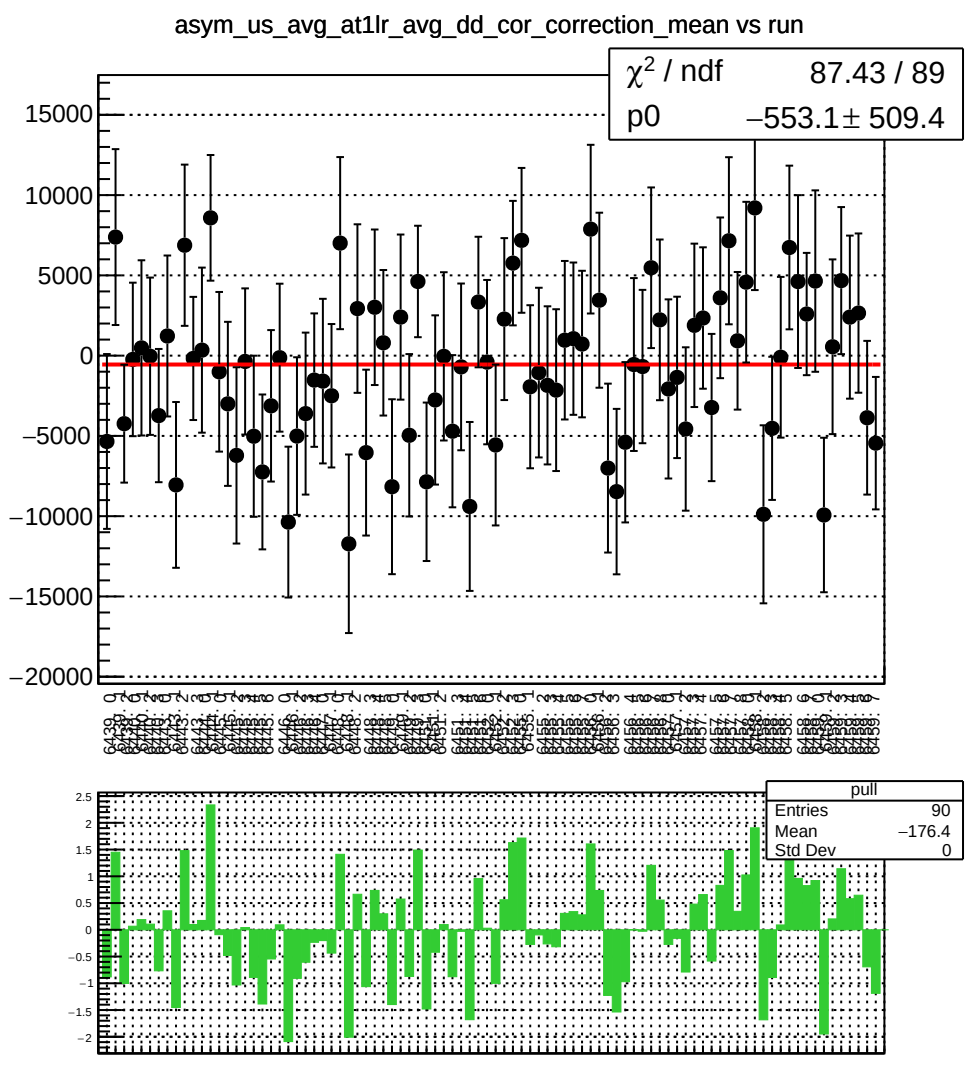

pull1D
Entries 90
Mean −0.01828
Std Dev 0.9855

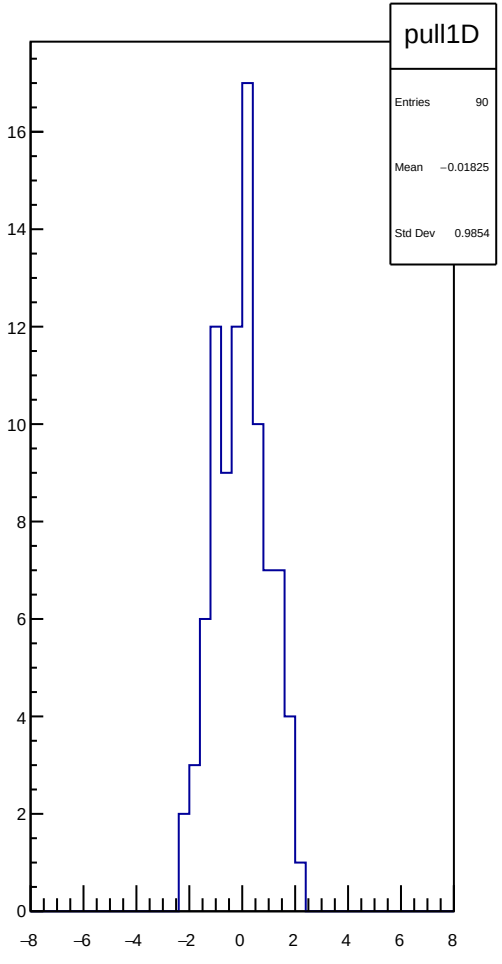

asym_us_avg_at1lr_avg_dd_reg_correction_rms vs run
χ² / ndf 5486 / 89
p0 480.1 ± 0.3602
540
520
500
480
460
440
420

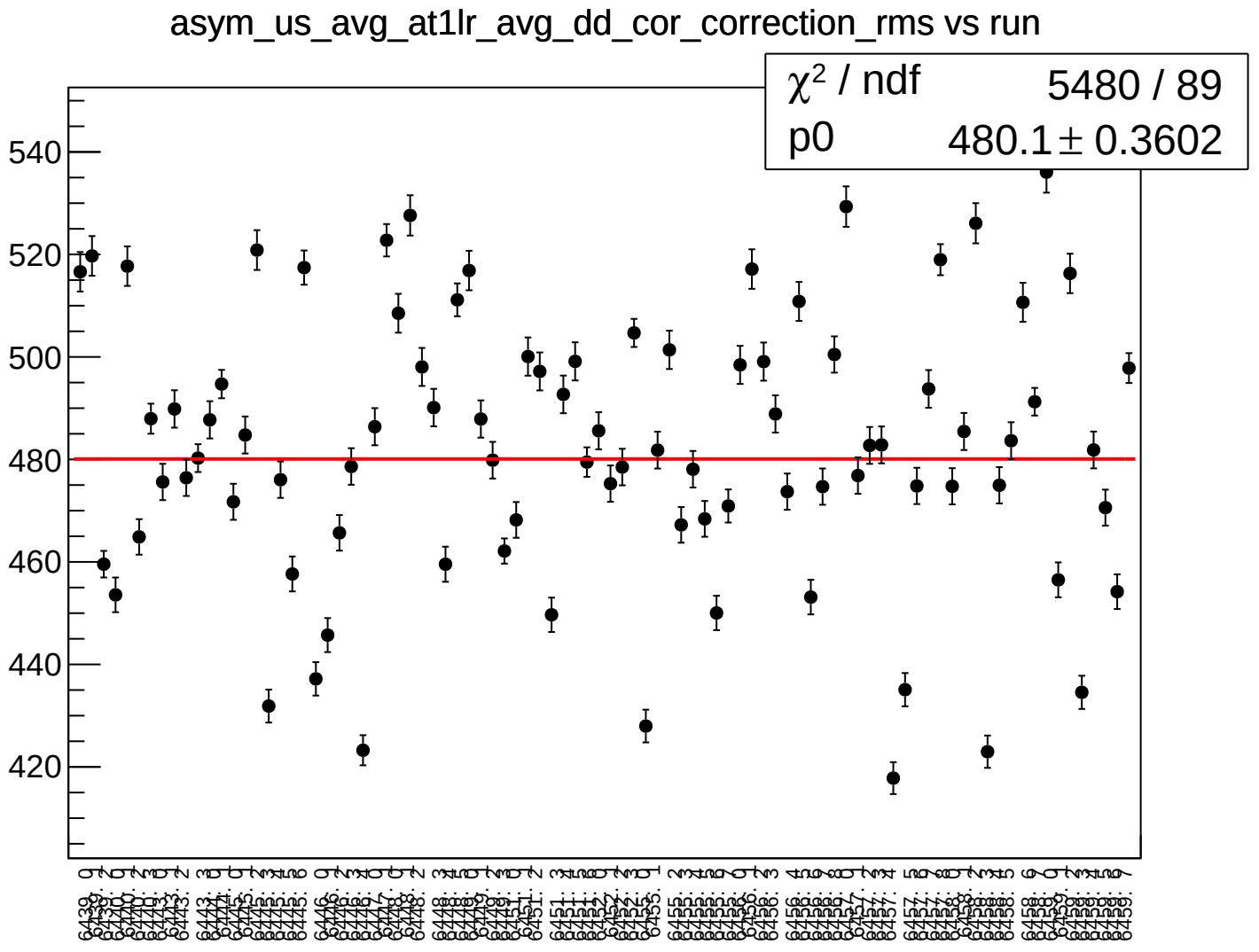

cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 77.62 / 89
p0 2608 ± 1828
pull
Entries 90
Mean 188.9
Std Dev 0

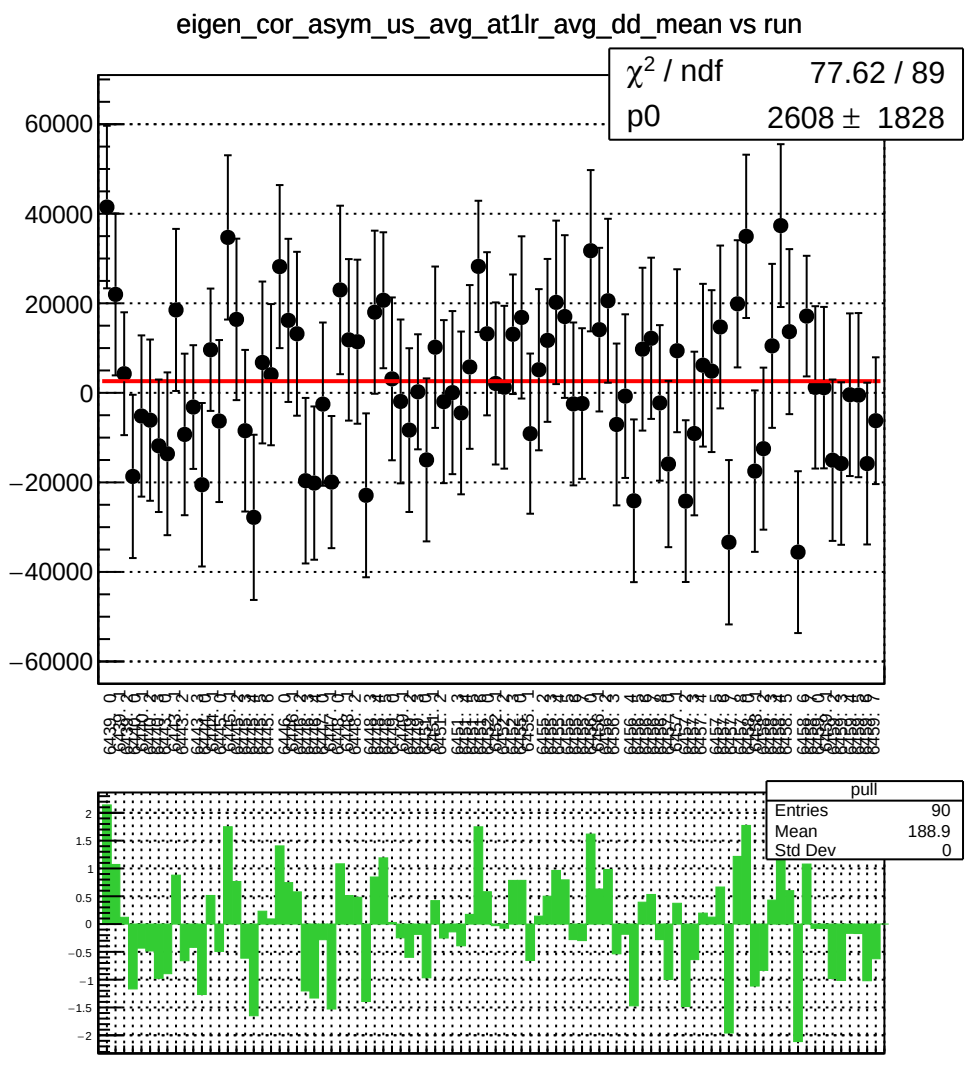

pull1D
Entries 90
Mean −0.008632
Std Dev 0.9287

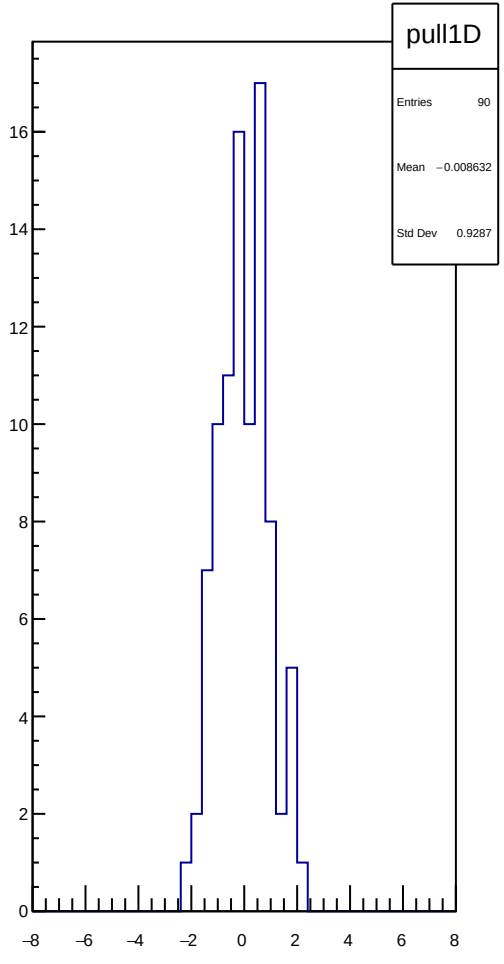

cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ^2 / ndf 101.2 / 89
p0 1726 ± 1.293
1800
1780
1760
1740
1720
1700
1680

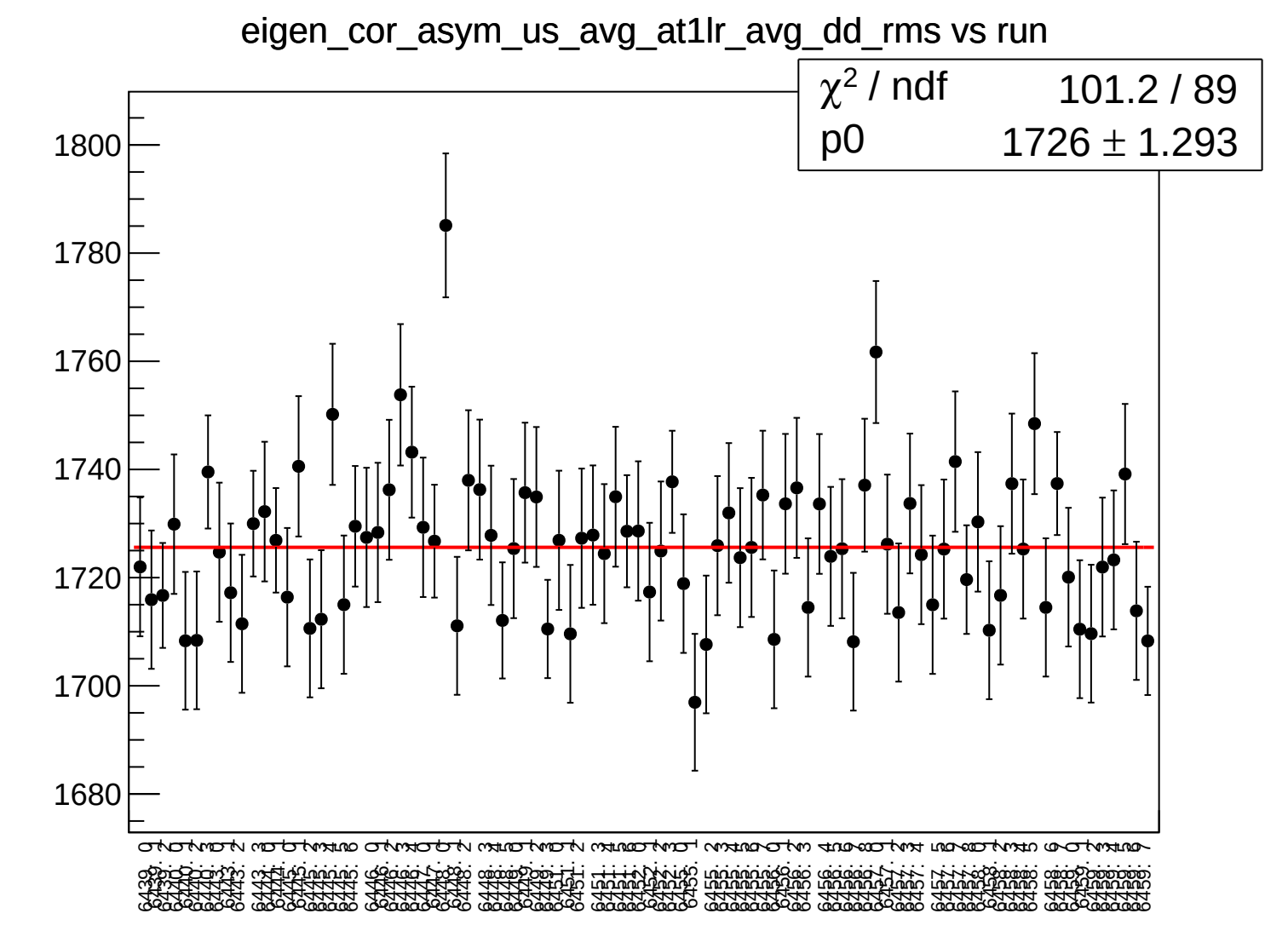

asym_us_avg_at1lr_avg_dd_cor_correction_mean vs run
χ² / ndf 87.43 / 89
p0 −553.1 ± 509.4
pull
Entries 90
Mean −176.4
Std Dev 0

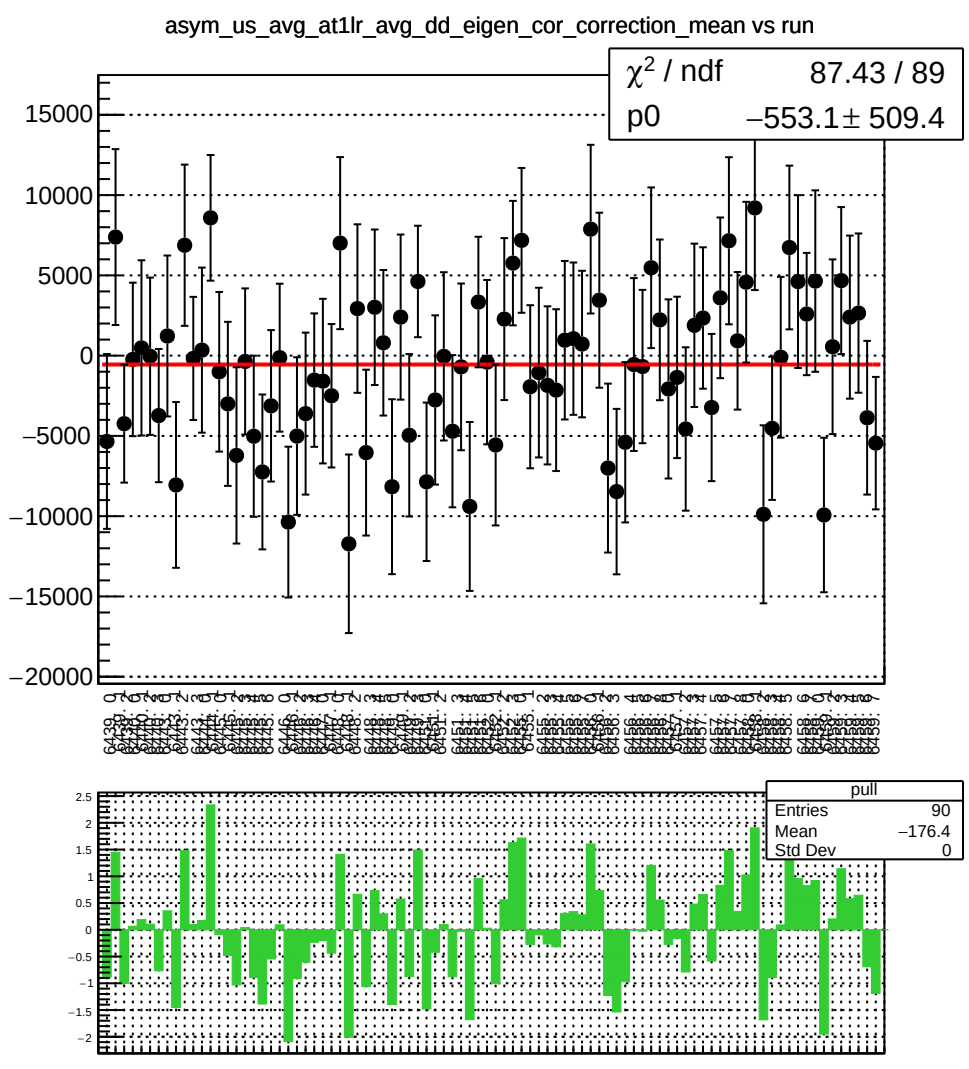

pull1D
Entries 90
Mean −0.01825
Std Dev 0.9854

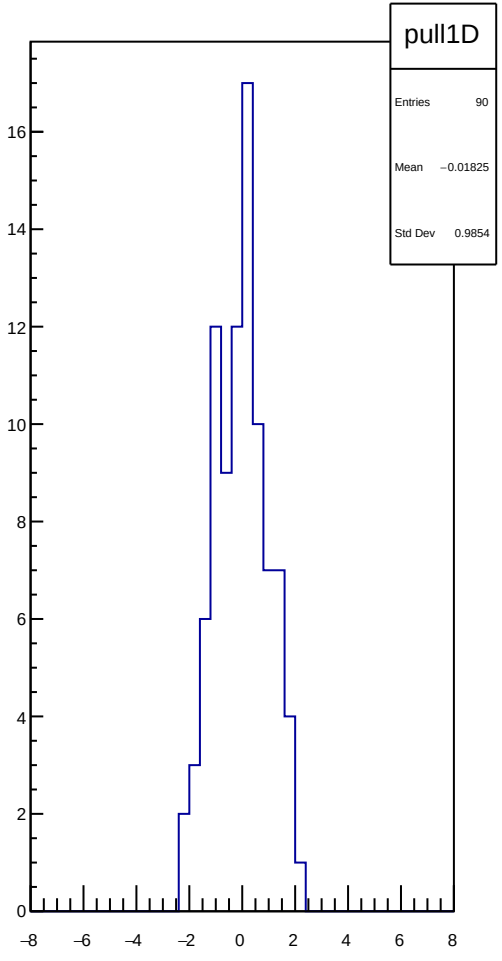

asym_us_avg_at1lr_avg_dd_cor_correction_rms vs run
χ² / ndf 5480 / 89
p0 480.1 ± 0.3602
540
520
500
480
460
440
420

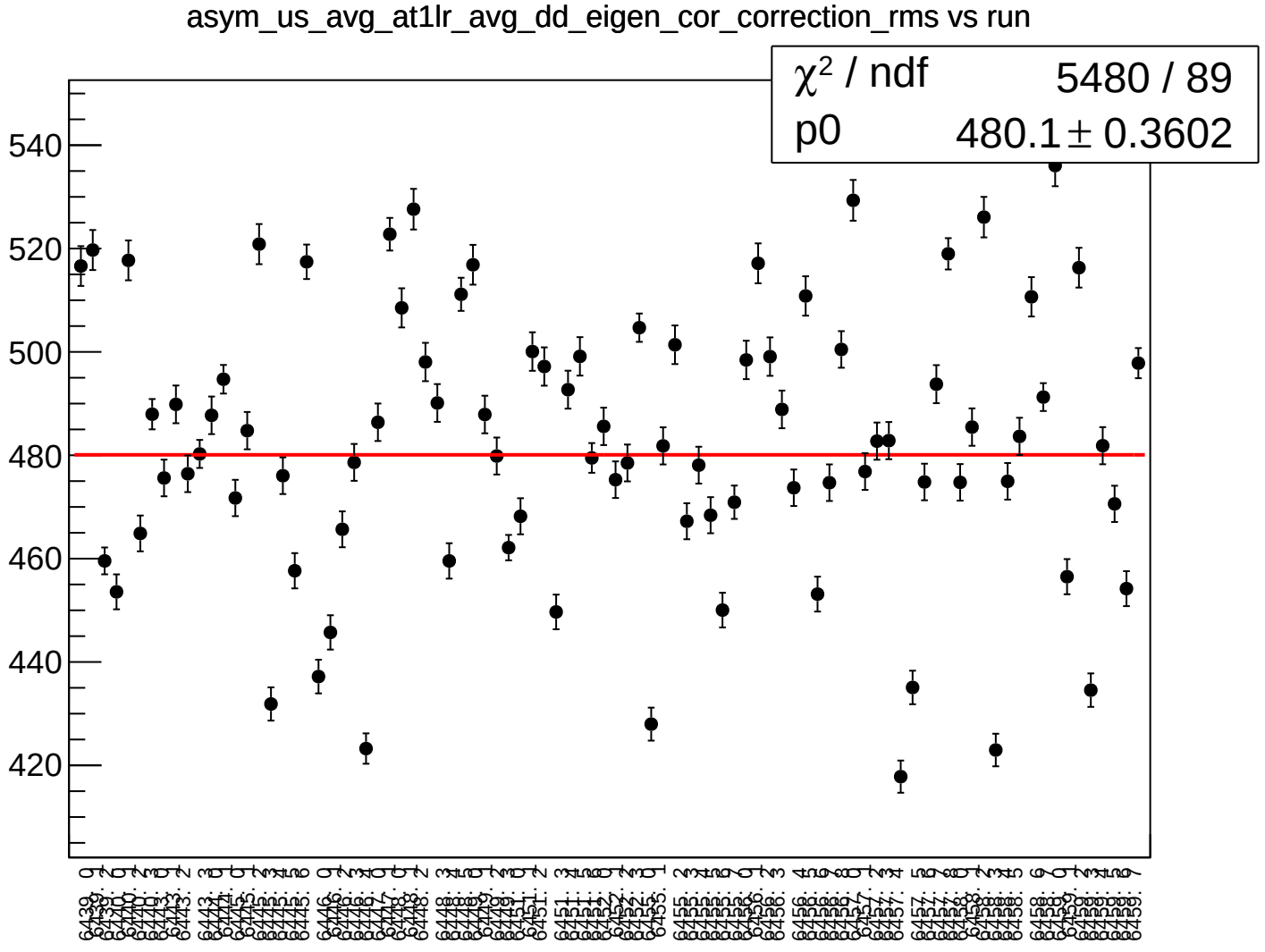

eigen_cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 77.62 / 89
p0 2608 ± 1828
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 188.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

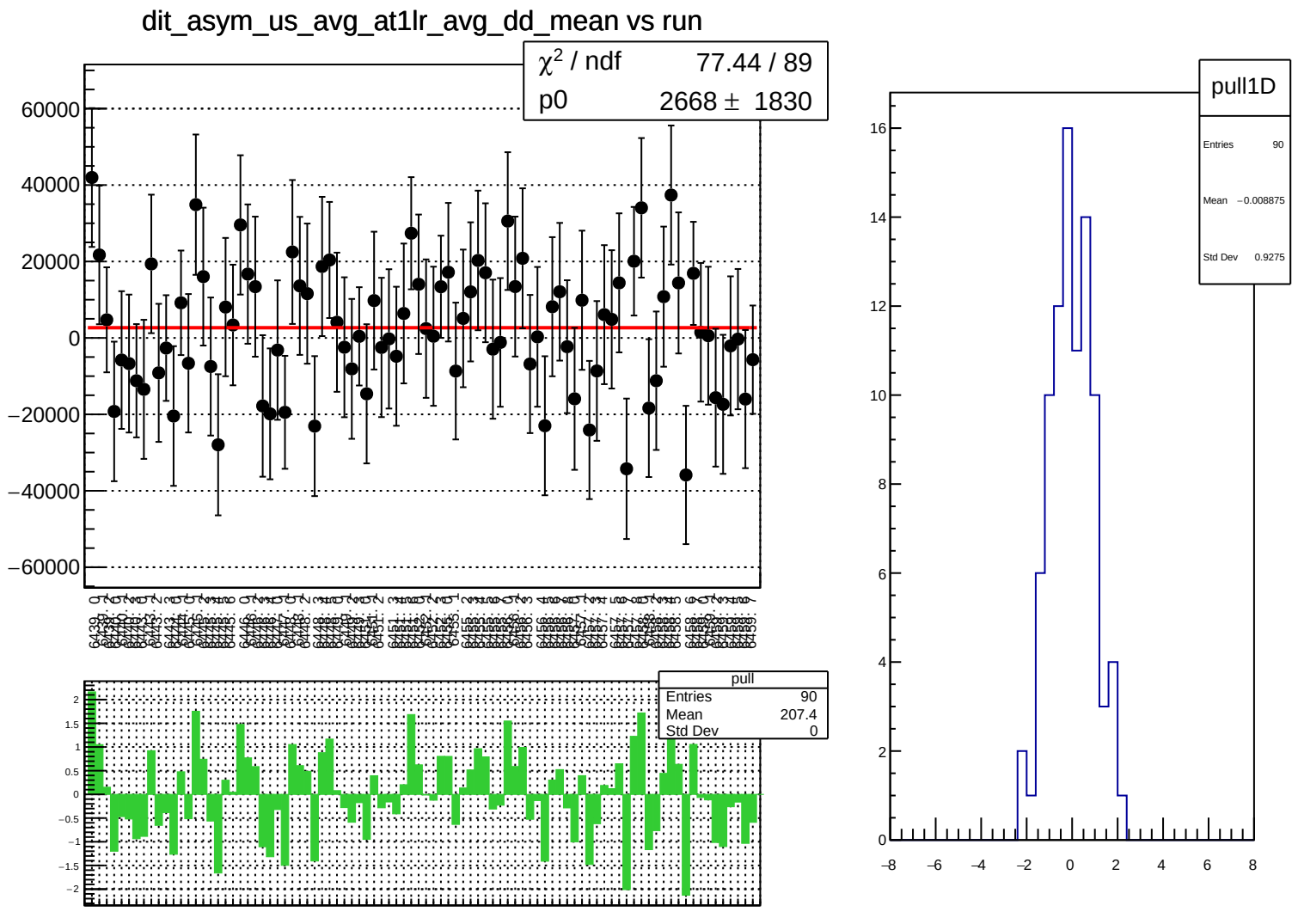

pull1D
Entries 90
Mean −0.008632
Std Dev 0.9287
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

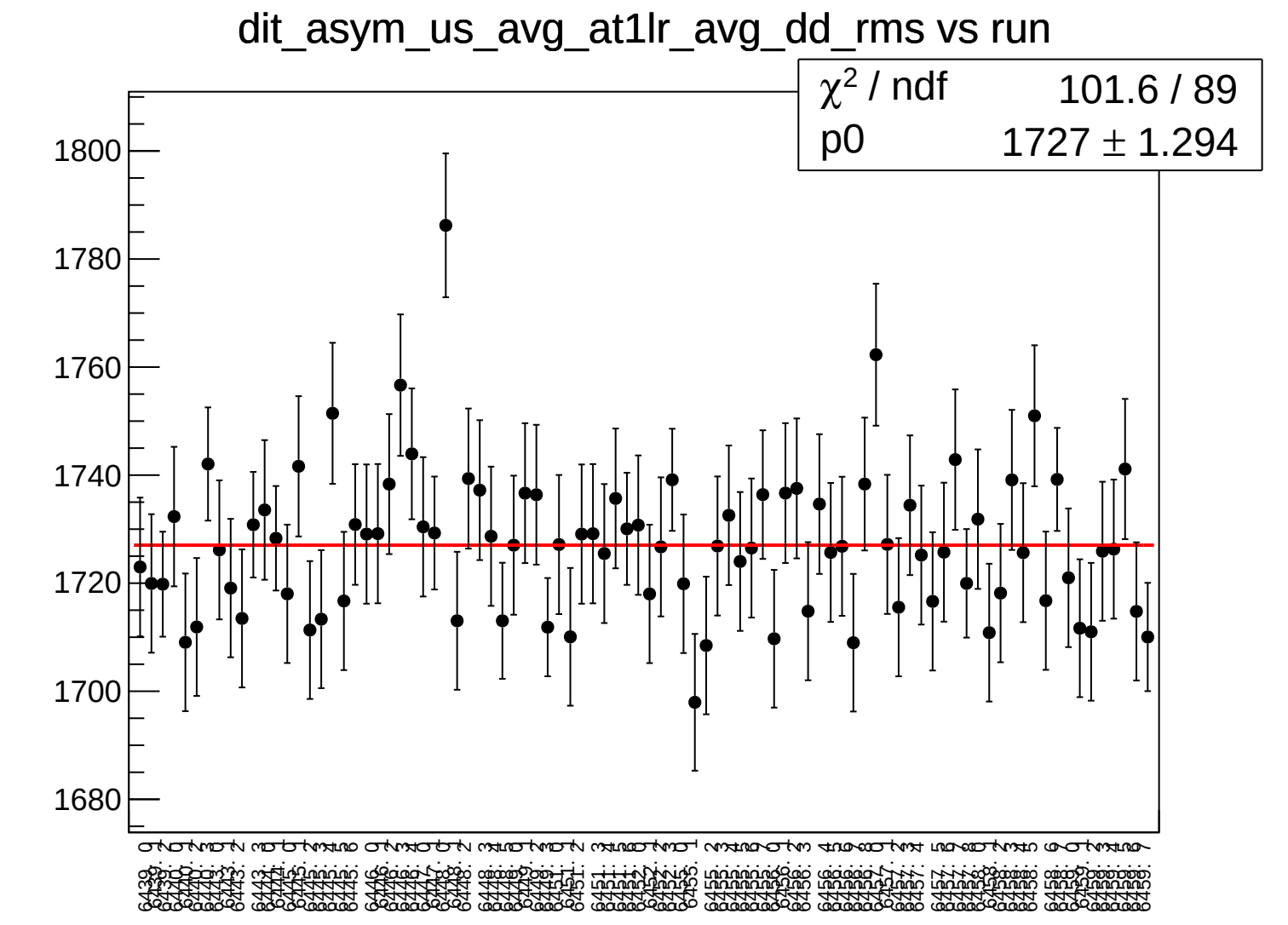

eigen_cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 101.2 / 89
p0 1726 ± 1.293
1800
1780
1760
1740
1720
1700
1680

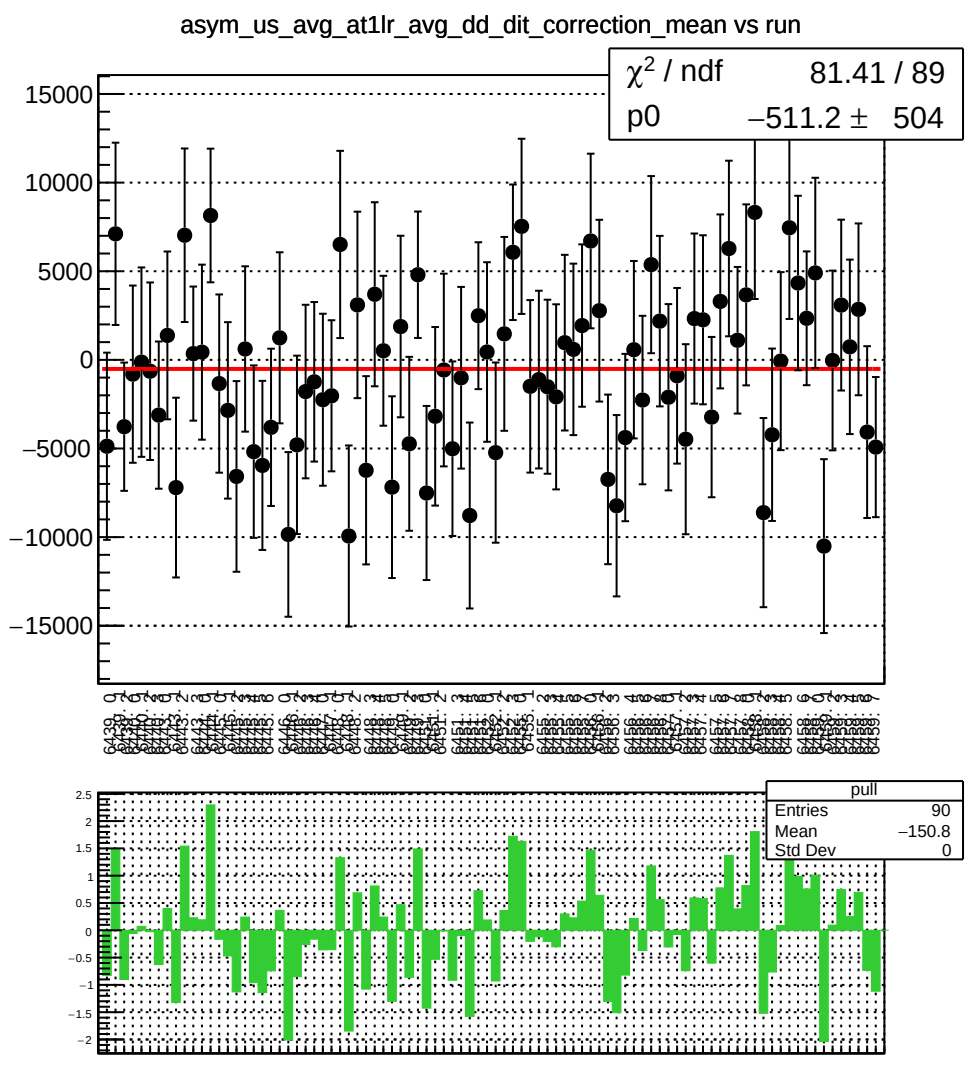

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 87.43 / 89
p0 −553.1 ± 509.4
pull
Entries 90
Mean −176.4
Std Dev 0

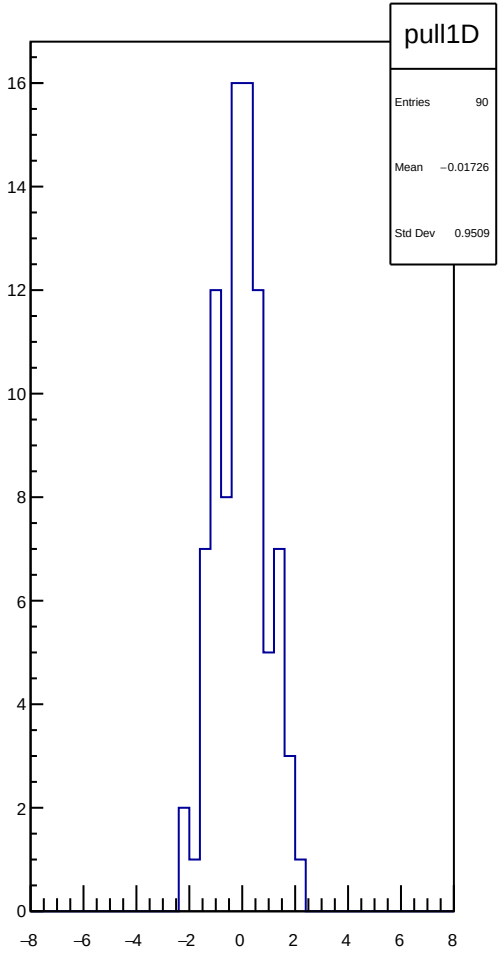

pull1D
Entries 90
Mean −0.01825
Std Dev 0.9854

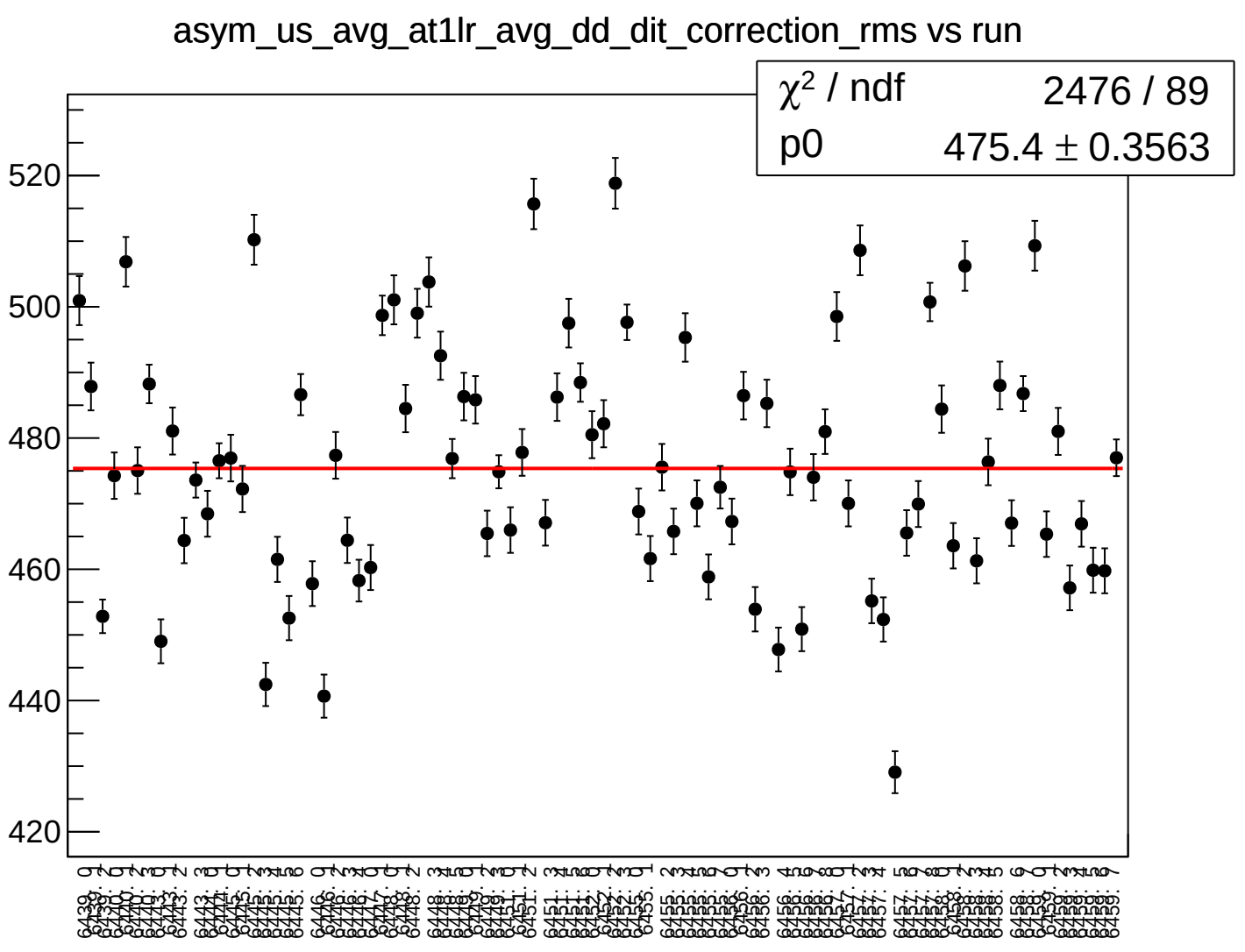

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 5480 / 89
p0 480.1 ± 0.3602
540
520
500
480
460
440
420

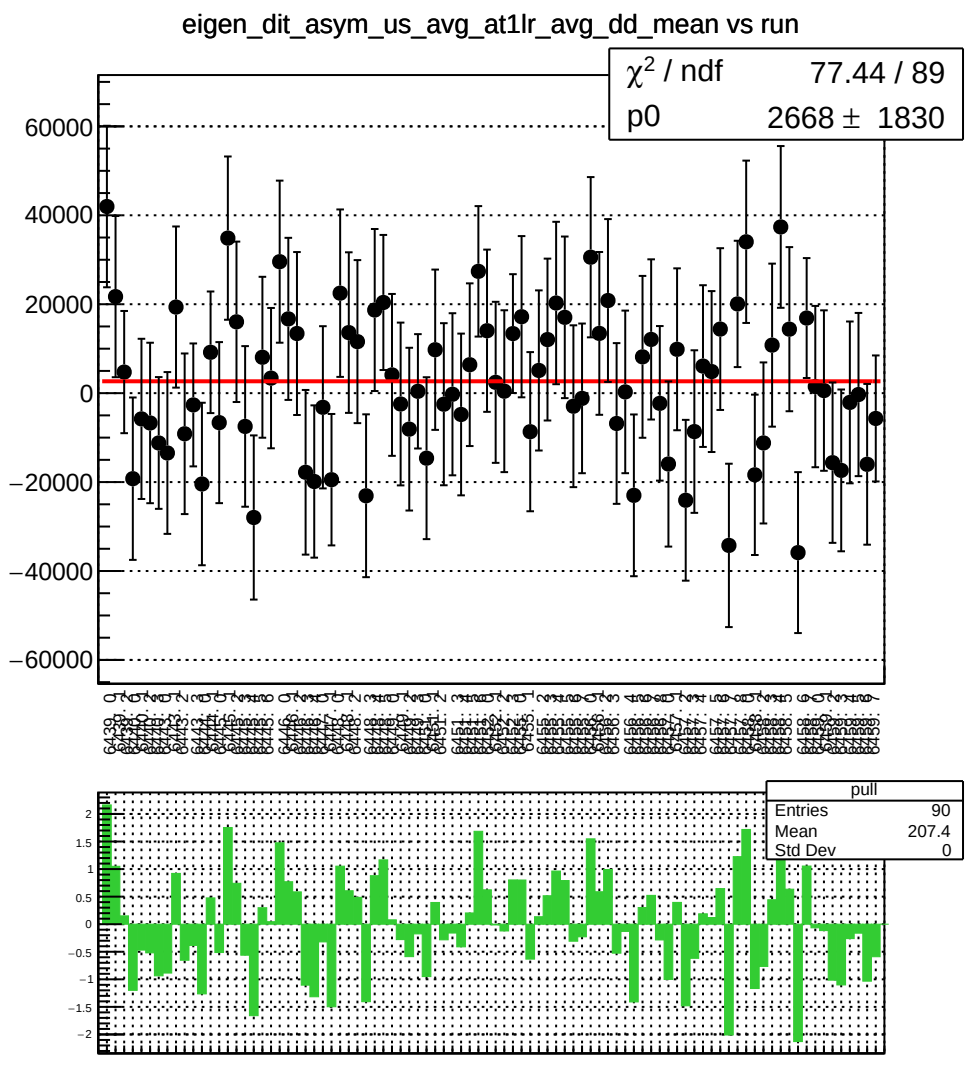

dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 77.44 / 89
p0 2668 ± 1830
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 207.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 90
Mean −0.008875
Std Dev 0.9275
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

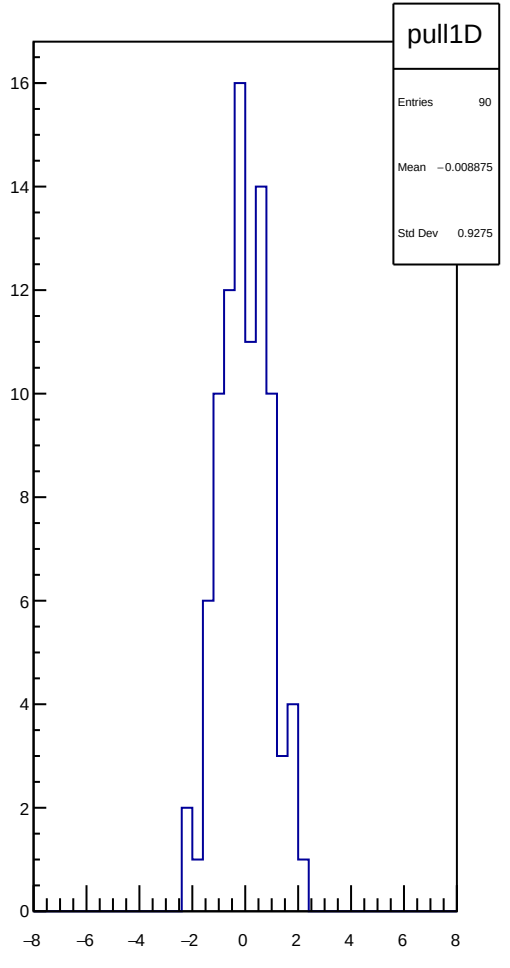

dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 101.6 / 89
p0 1727 ± 1.294
1800
1780
1760
1740
1720
1700
1680

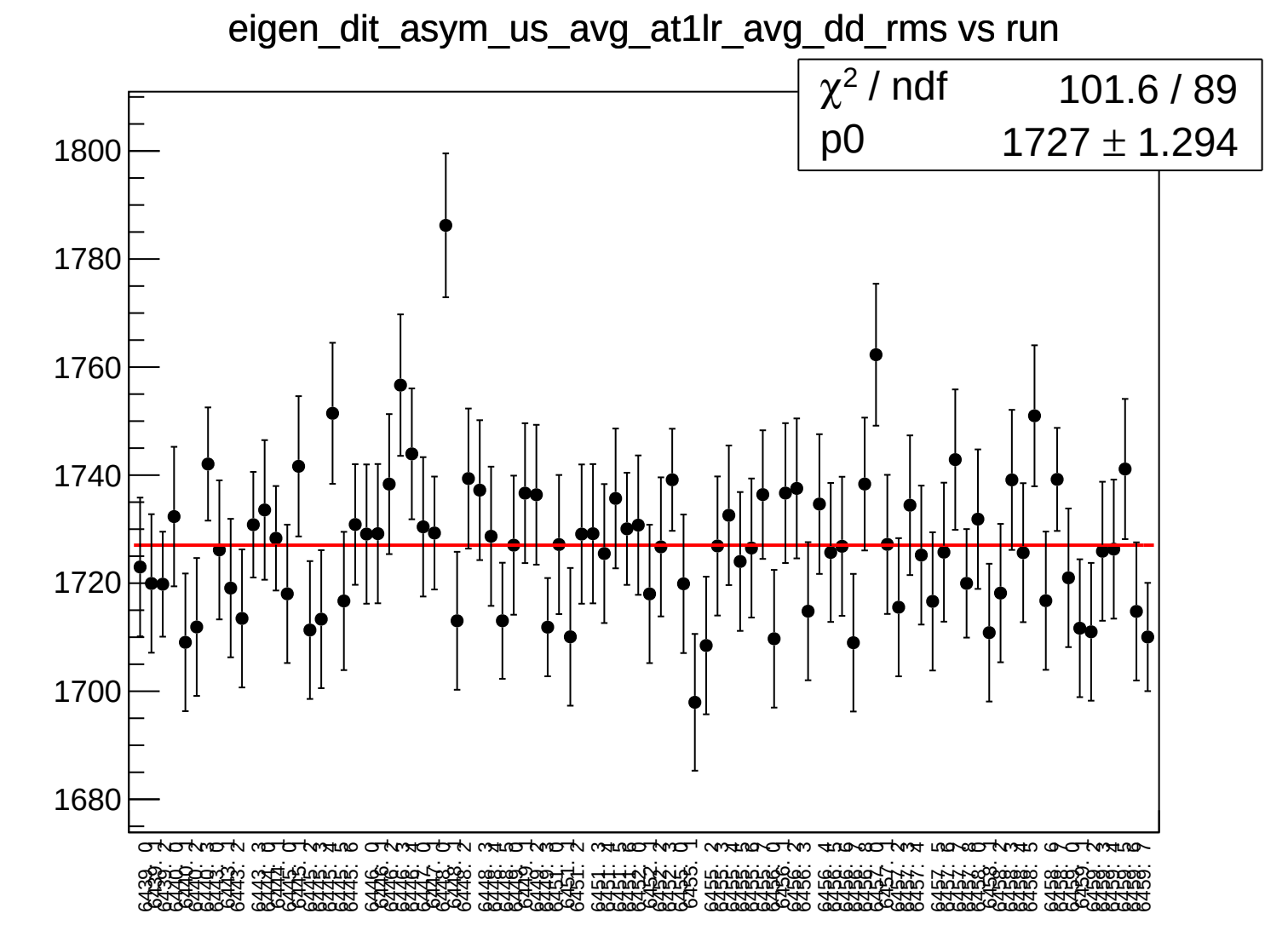

asym_us_avg_at1lr_avg_dd_dit_correction_mean vs run
χ² / ndf 81.41 / 89
p0 −511.2 ± 504
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 90
Mean −150.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

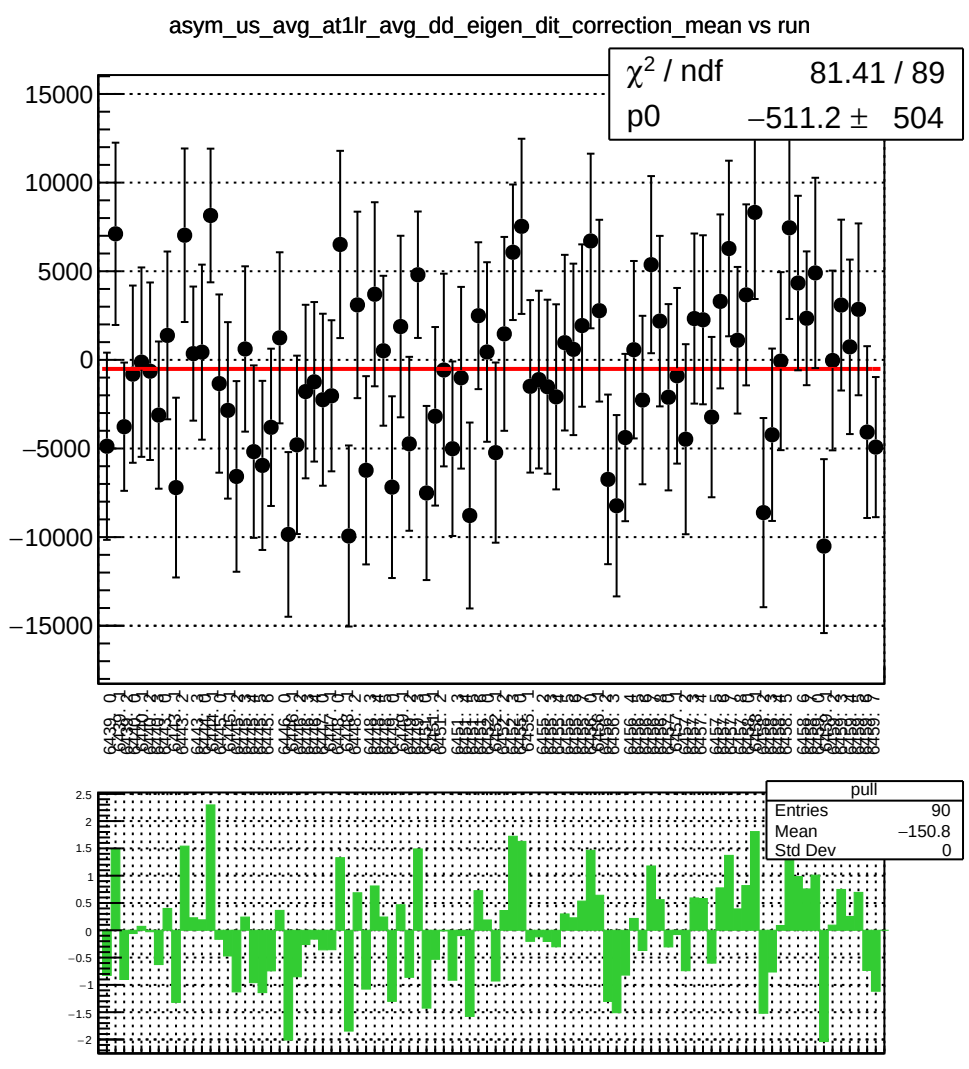

pull1D
Entries 90
Mean −0.01726
Std Dev 0.9509
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

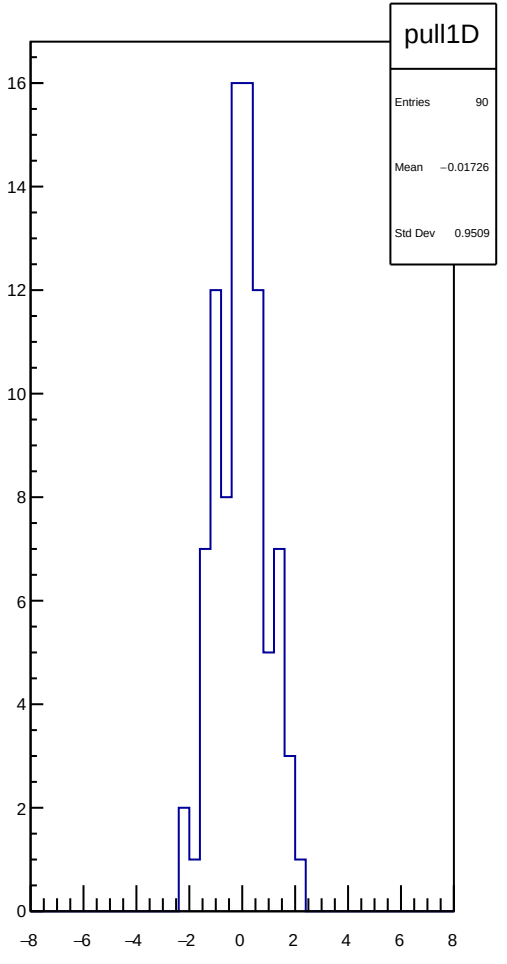

asym_us_avg_at1lr_avg_dd_dit_correction_rms vs run
χ² / ndf 2476 / 89
p0 475.4 ± 0.3563
520
500
480
460
440
420

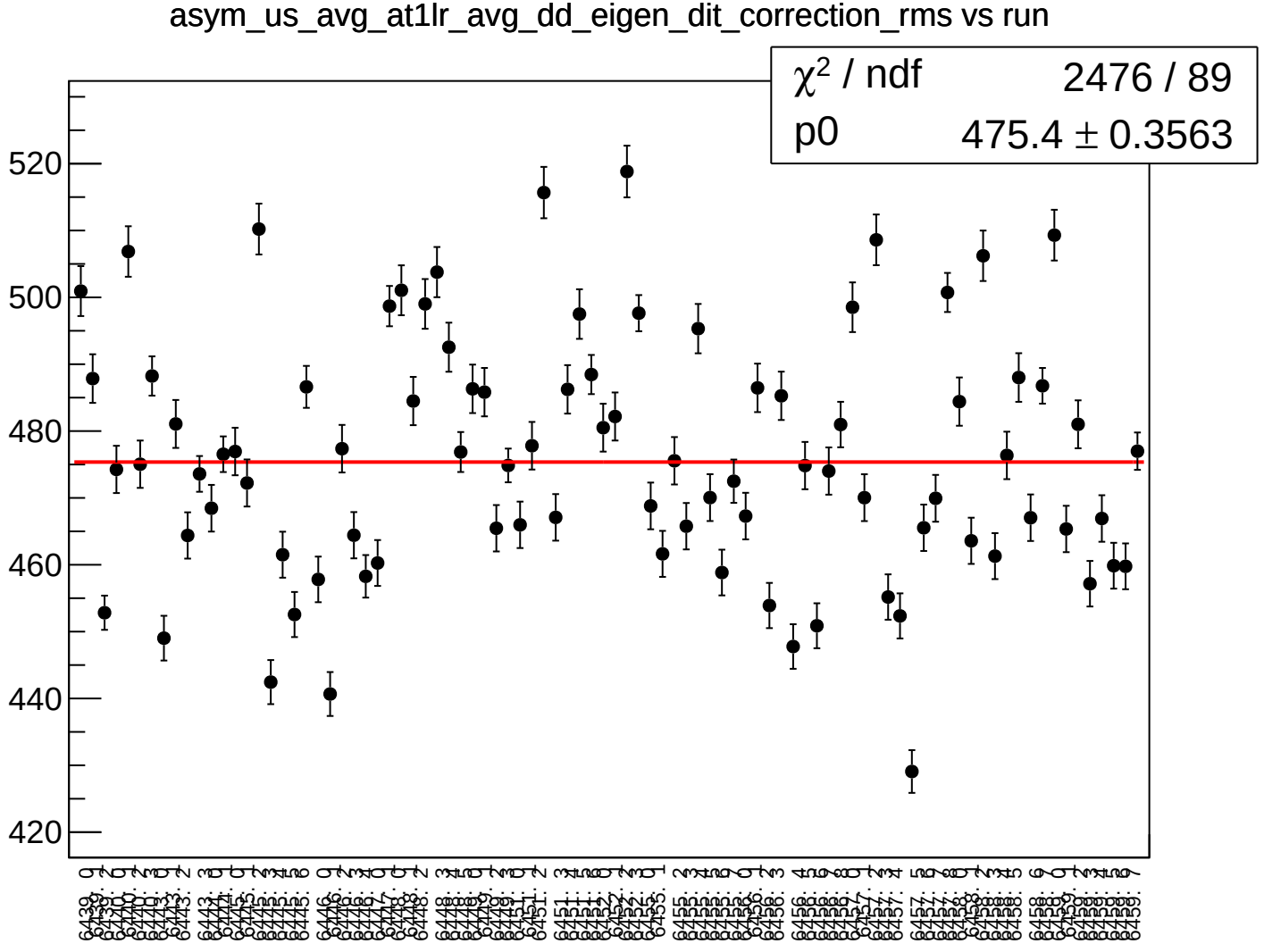

eigen_dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 77.44 / 89
p0 2668 ± 1830
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 207.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

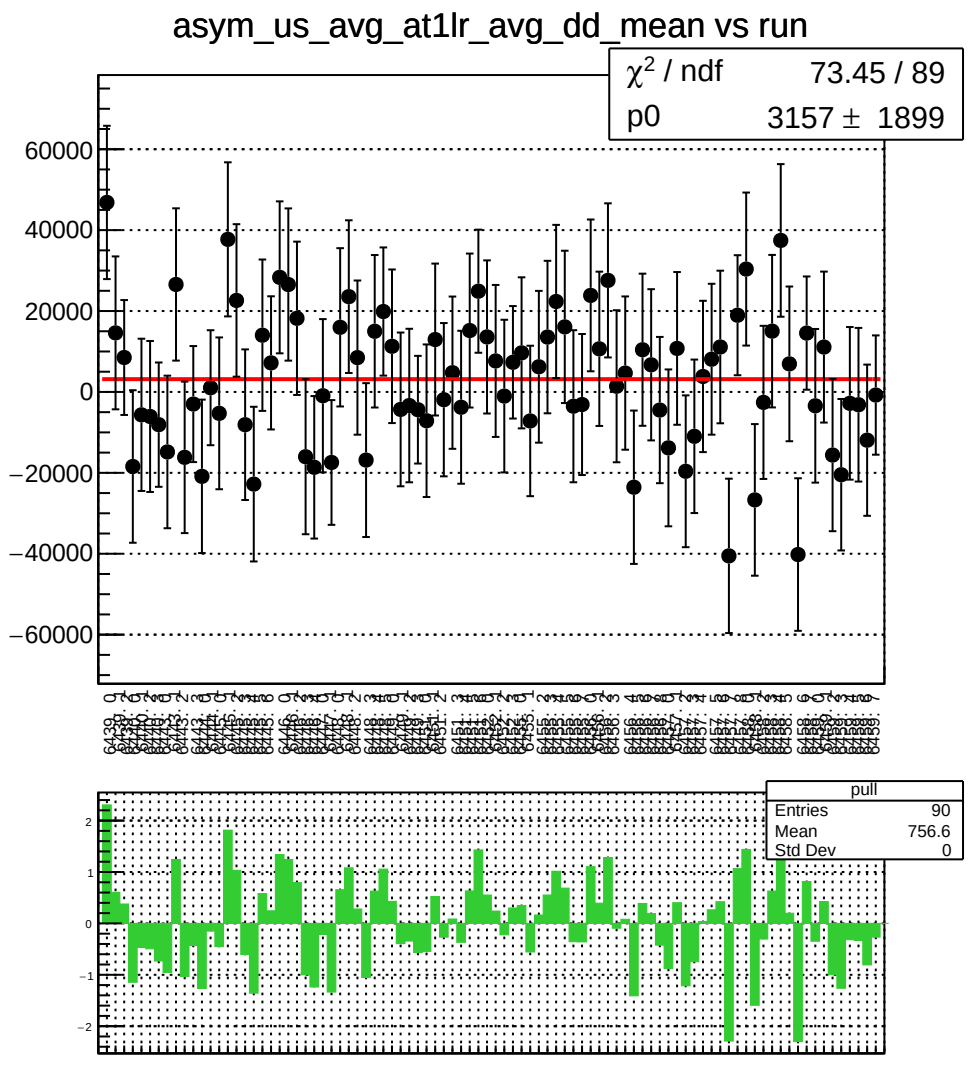

pull1D
Entries 90
Mean −0.008875
Std Dev 0.9275
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

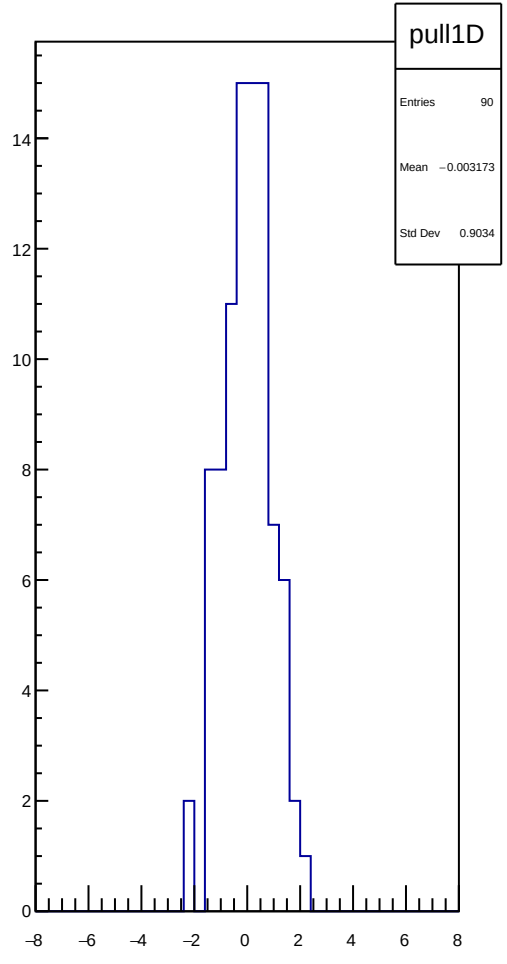

eigen_dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 101.6 / 89
p0 1727 ± 1.294
1800
1780
1760
1740
1720
1700
1680

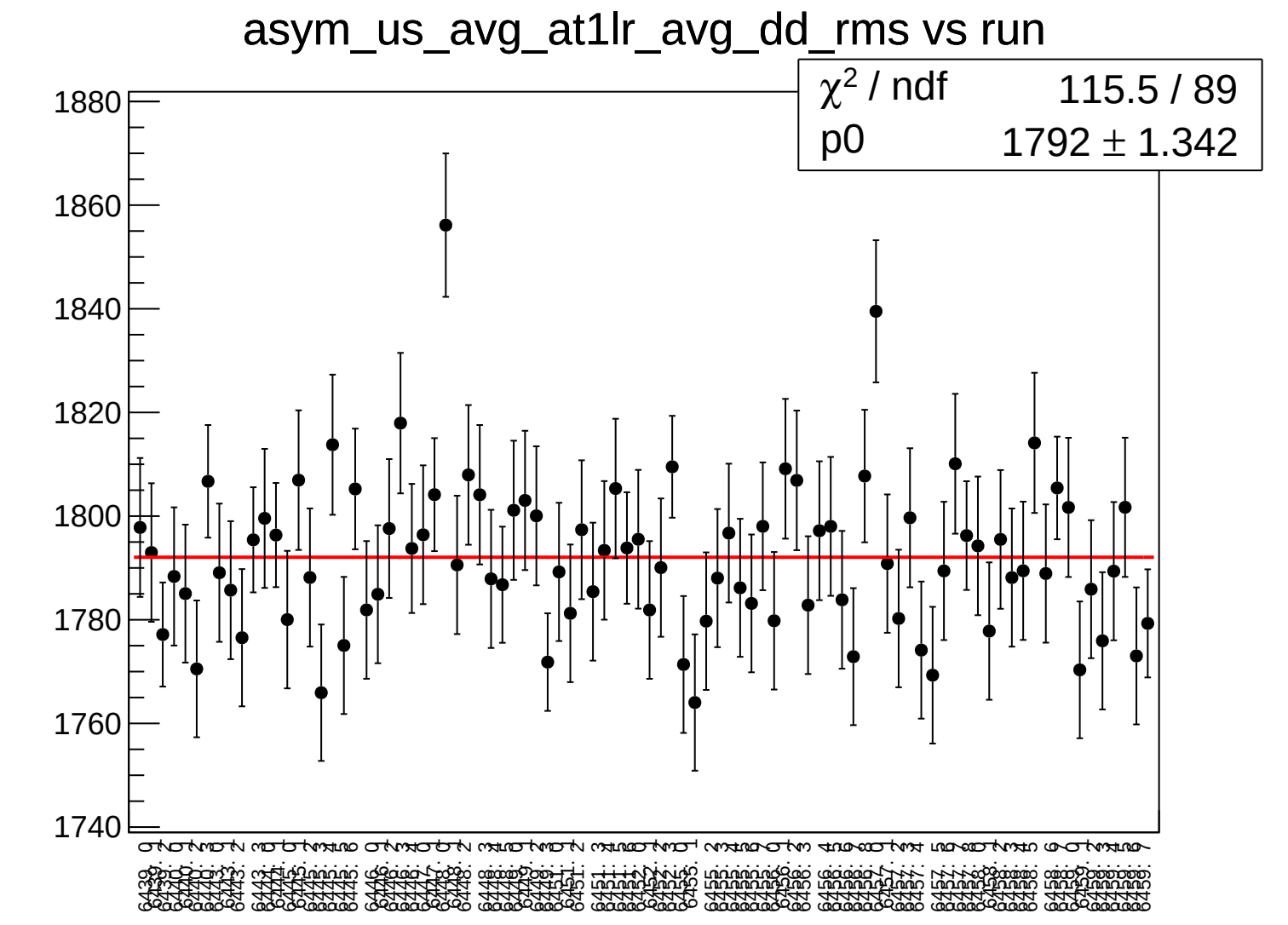

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 81.41 / 89
p0 −511.2 ± 504
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 90
Mean −150.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

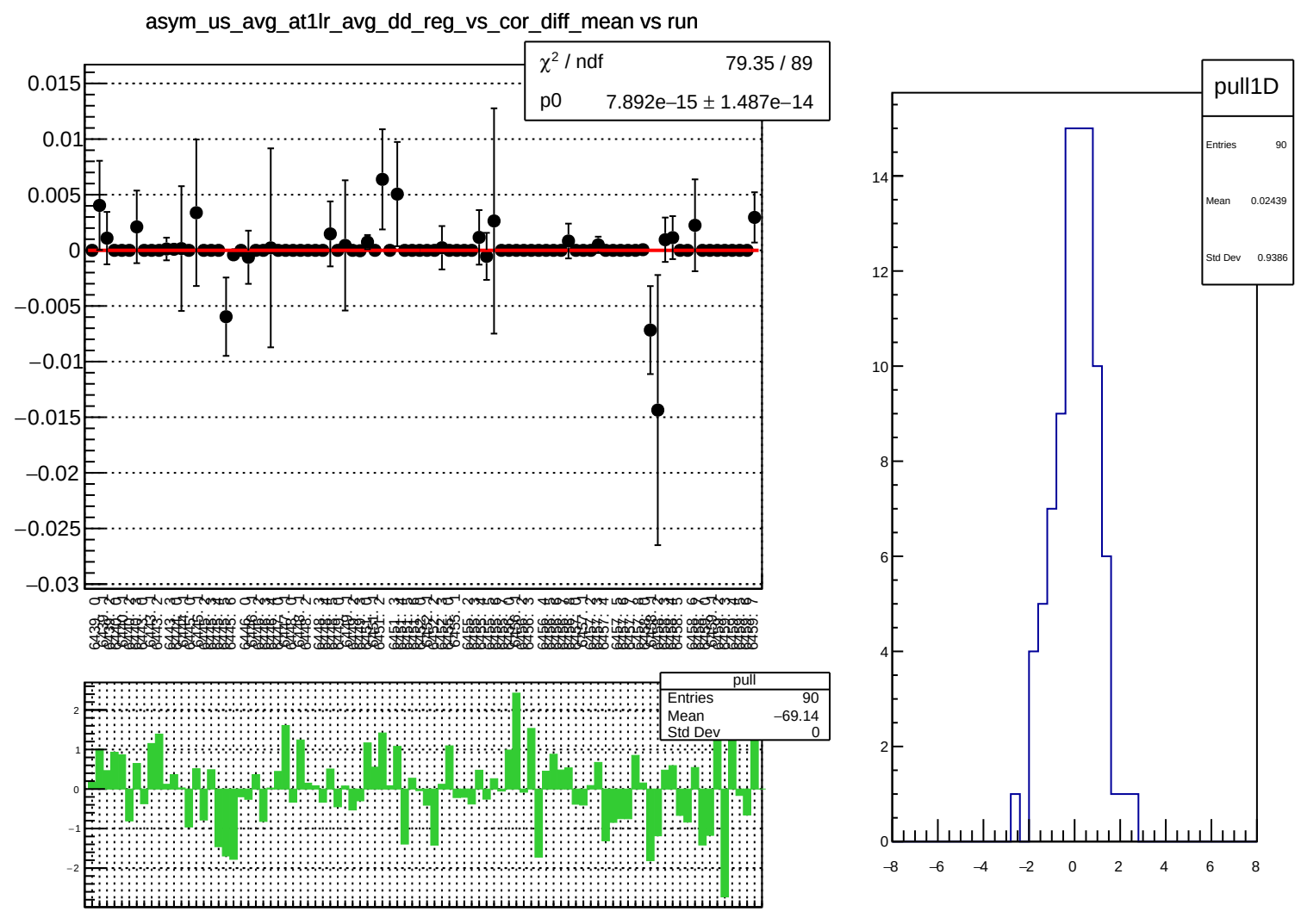

pull1D
Entries 90
Mean −0.01726
Std Dev 0.9509
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

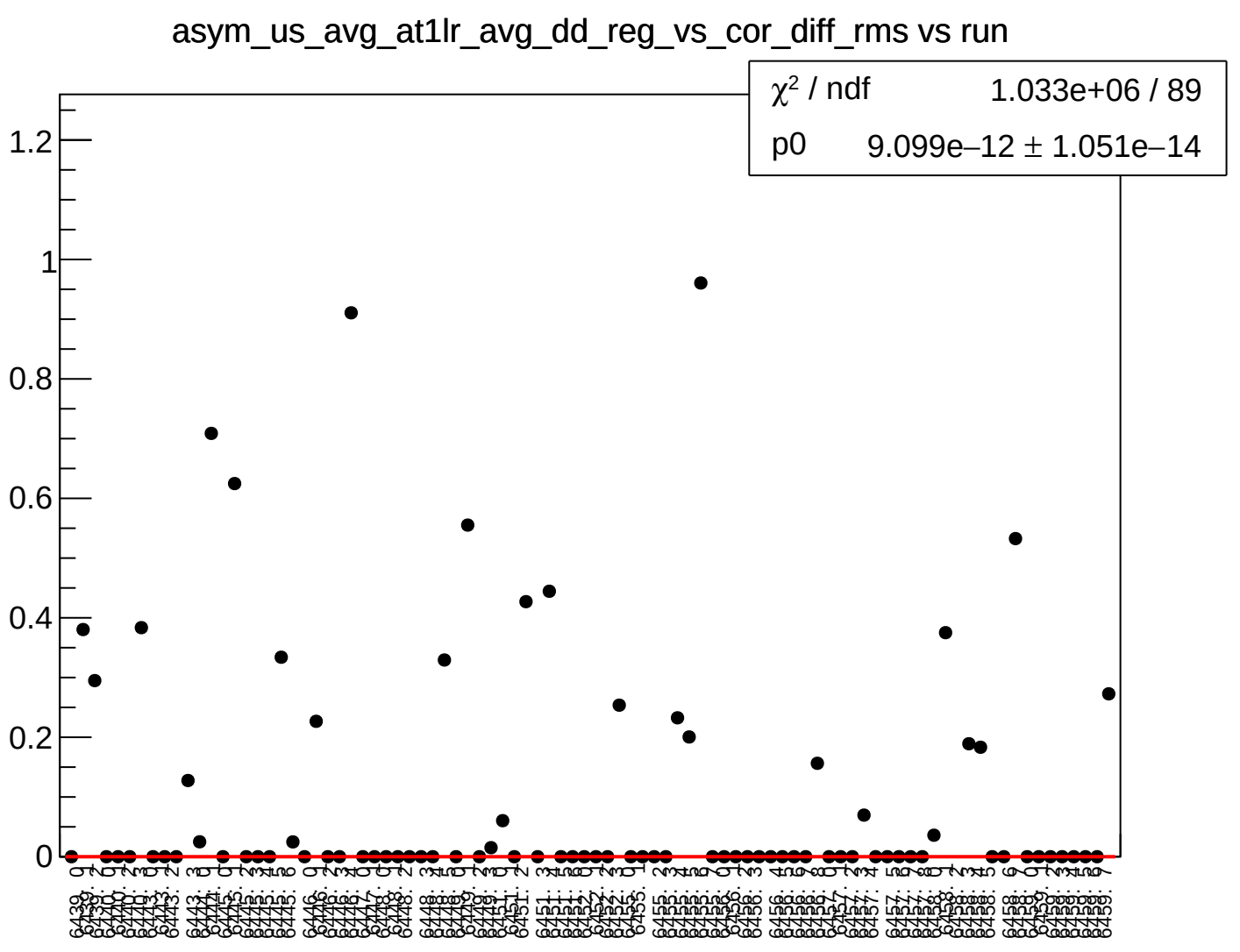

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 2476 / 89
p0 475.4 ± 0.3563
520
500
480
460
440
420

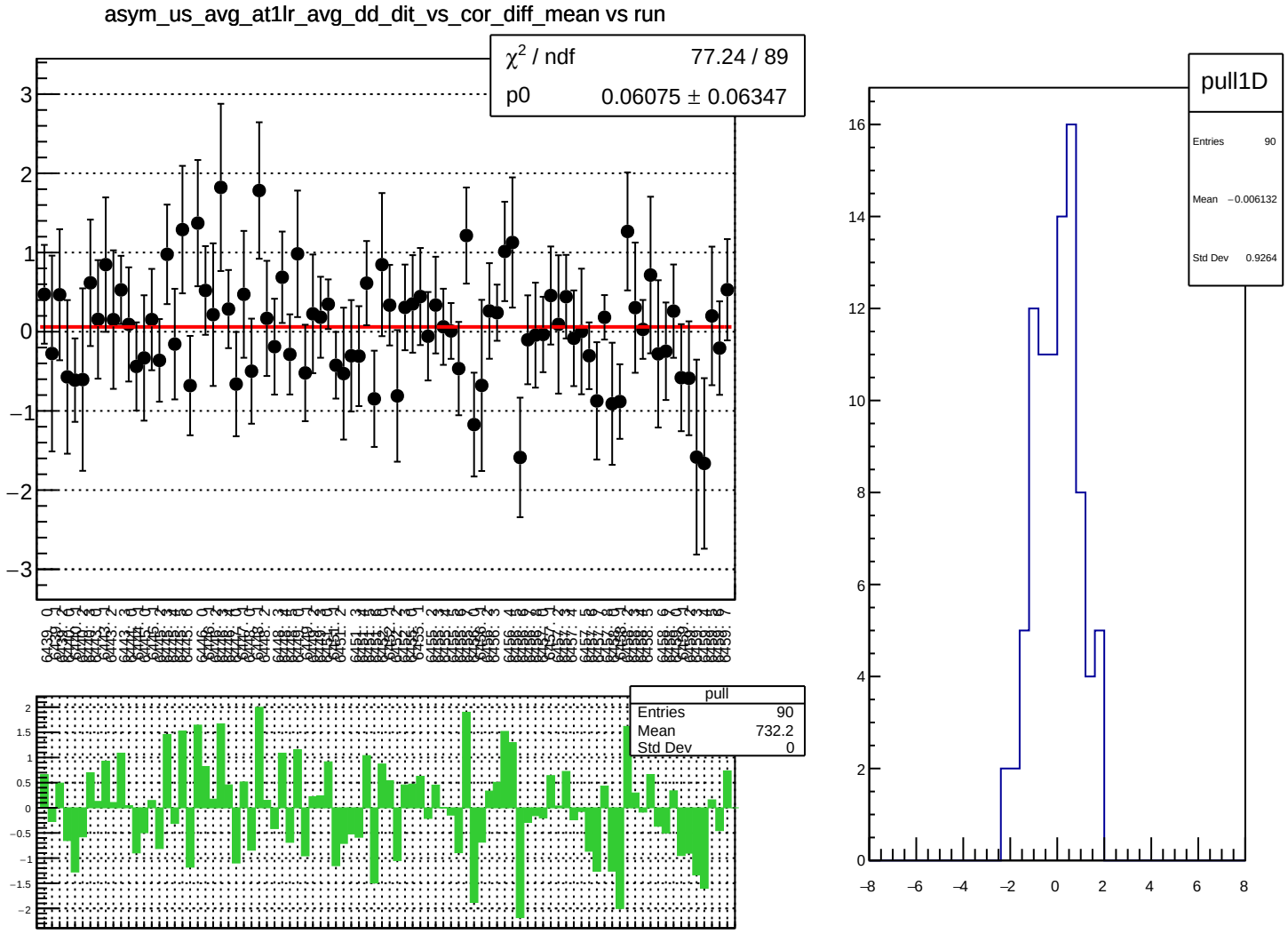

asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 73.45 / 89
p0 3157 ± 1899
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 756.6
Std Dev 0
2
1
0
−1
−2

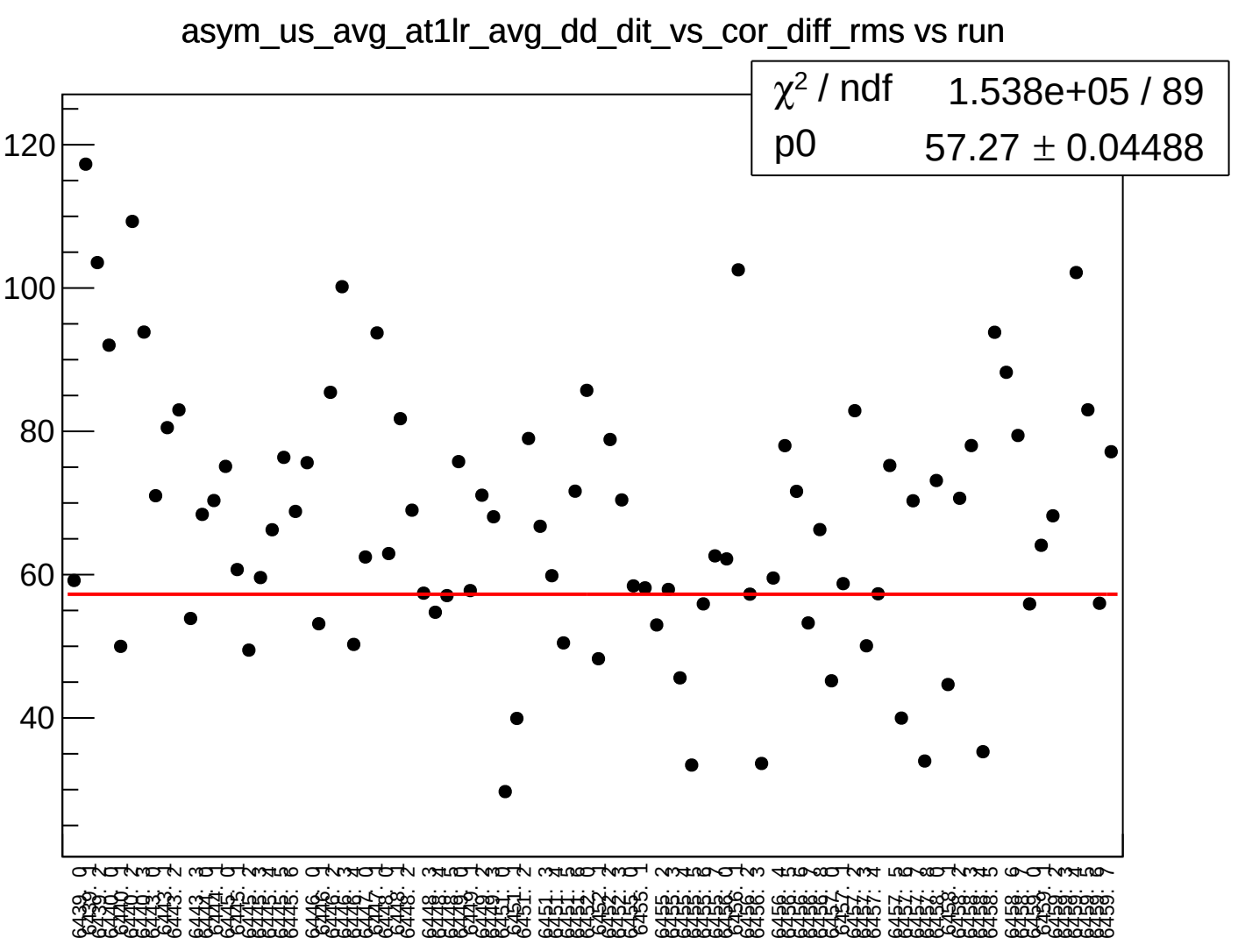

pull1D
Entries 90
Mean −0.003173
Std Dev 0.9034
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

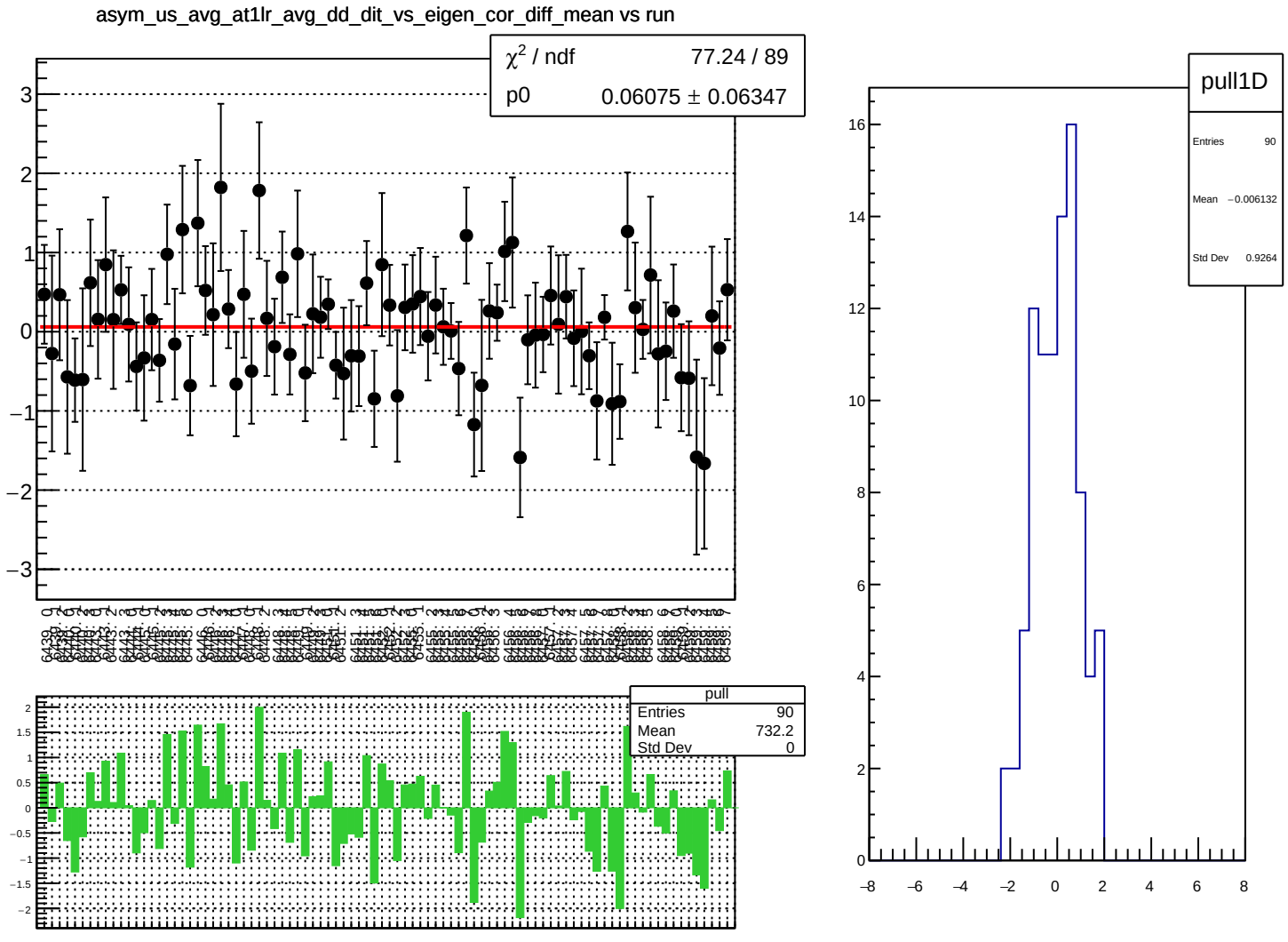

asym_us_avg_at1lr_avg_dd_rms vs run
χ^2 / ndf 115.5 / 89
p0 1792 ± 1.342
1880
1860
1840
1820
1800
1780
1760
1740

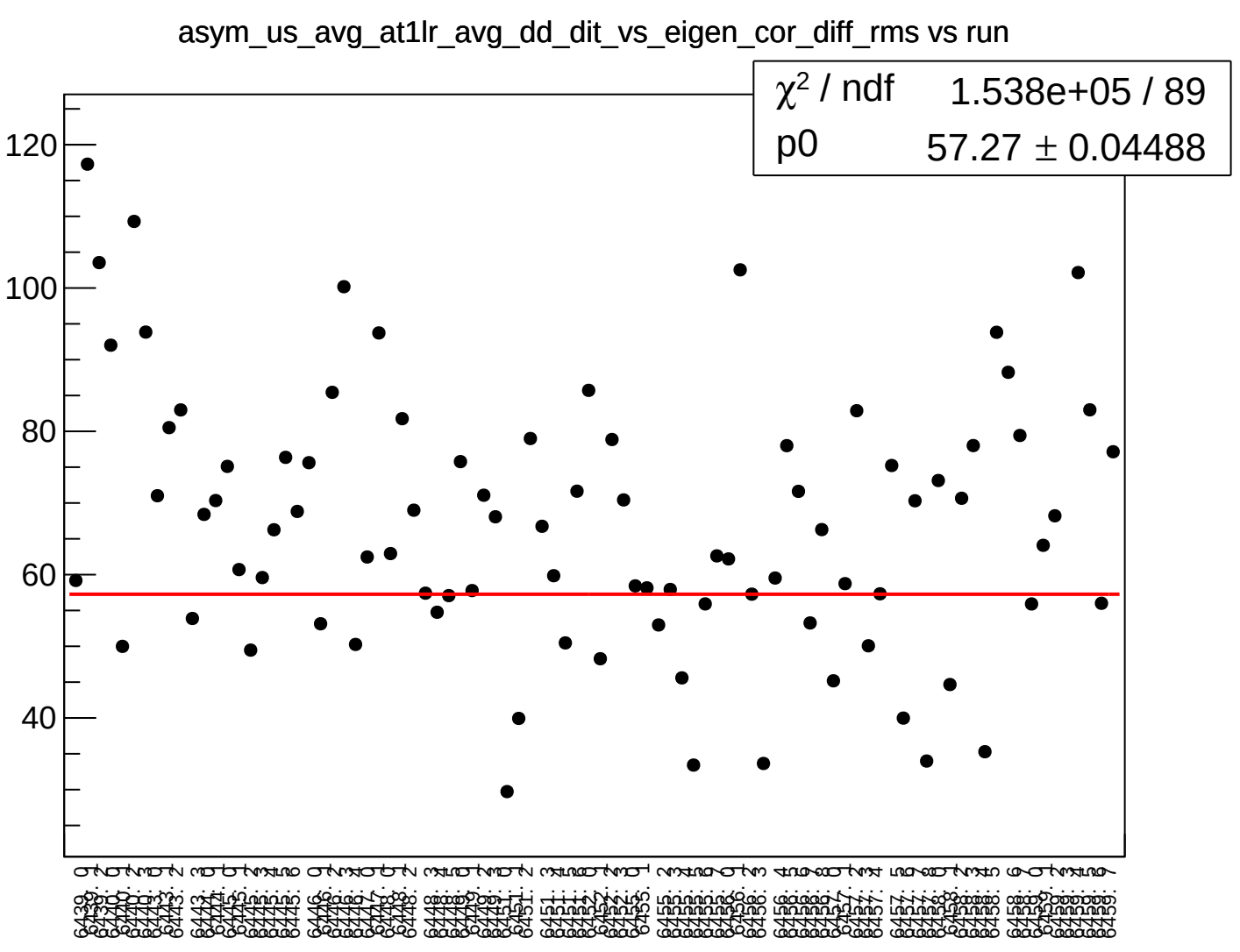

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 79.35 / 89
p0 7.892e−15 ± 1.487e−14
pull
Entries 90
Mean −69.14
Std Dev 0
pull1D
Entries 90
Mean 0.02439
Std Dev 0.9386

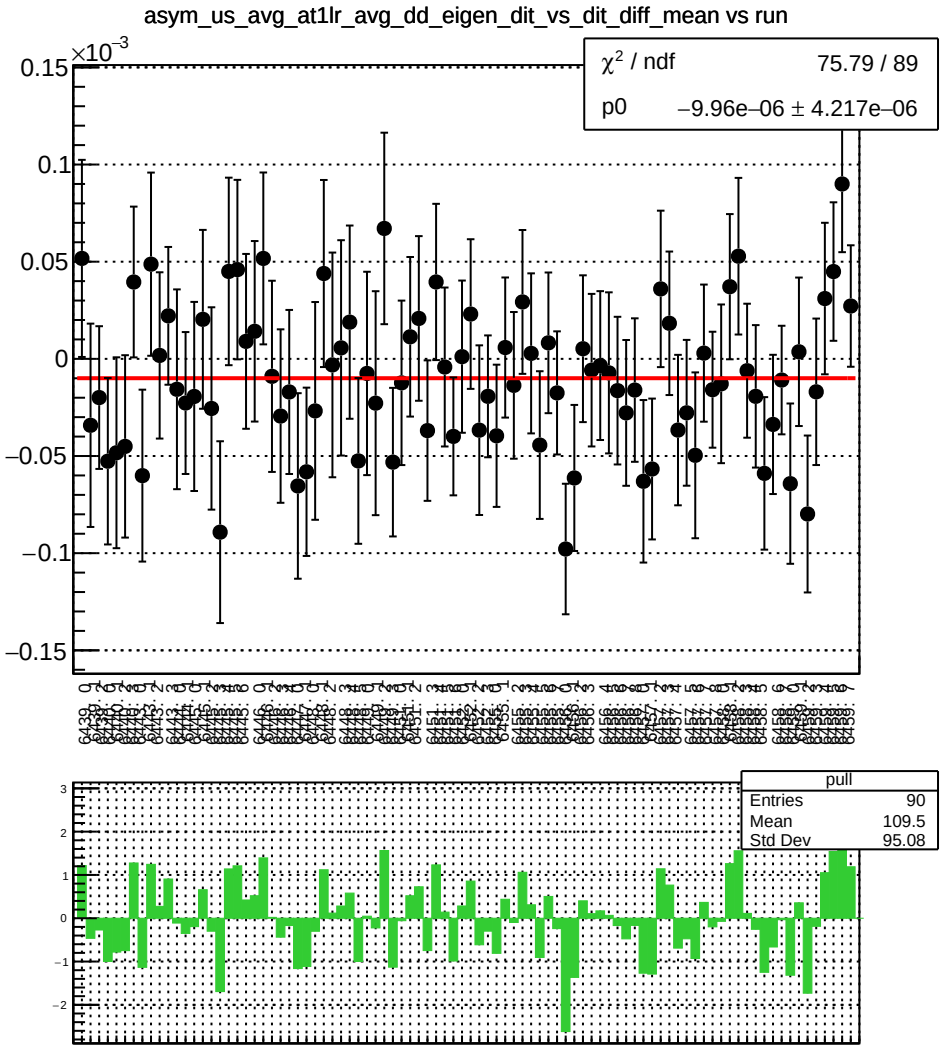

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.033e+06 / 89
p0 9.099e−12 ± 1.051e−14
1.2
1
0.8
0.6
0.4
0.2
0

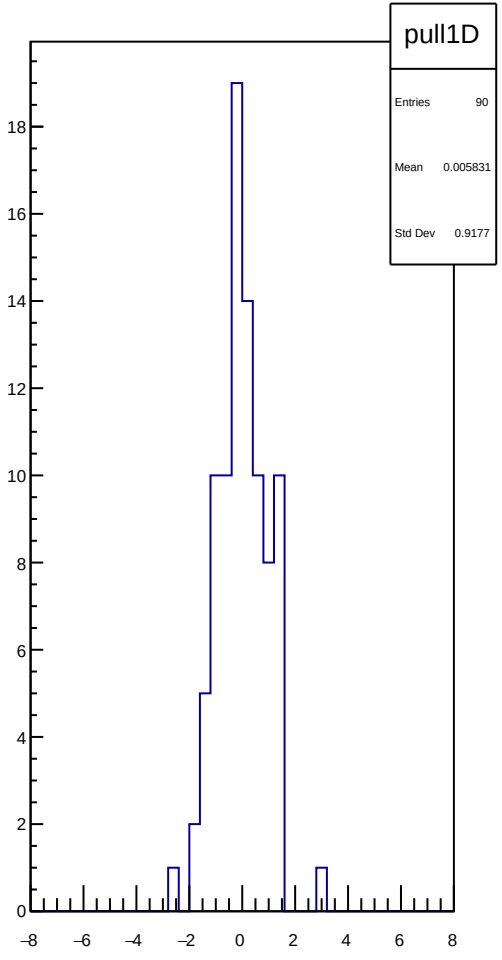

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 77.24 / 89
p0 0.06075 ± 0.06347
pull
Entries 90
Mean 732.2
Std Dev 0
pull1D
Entries 90
Mean −0.006132
Std Dev 0.9264

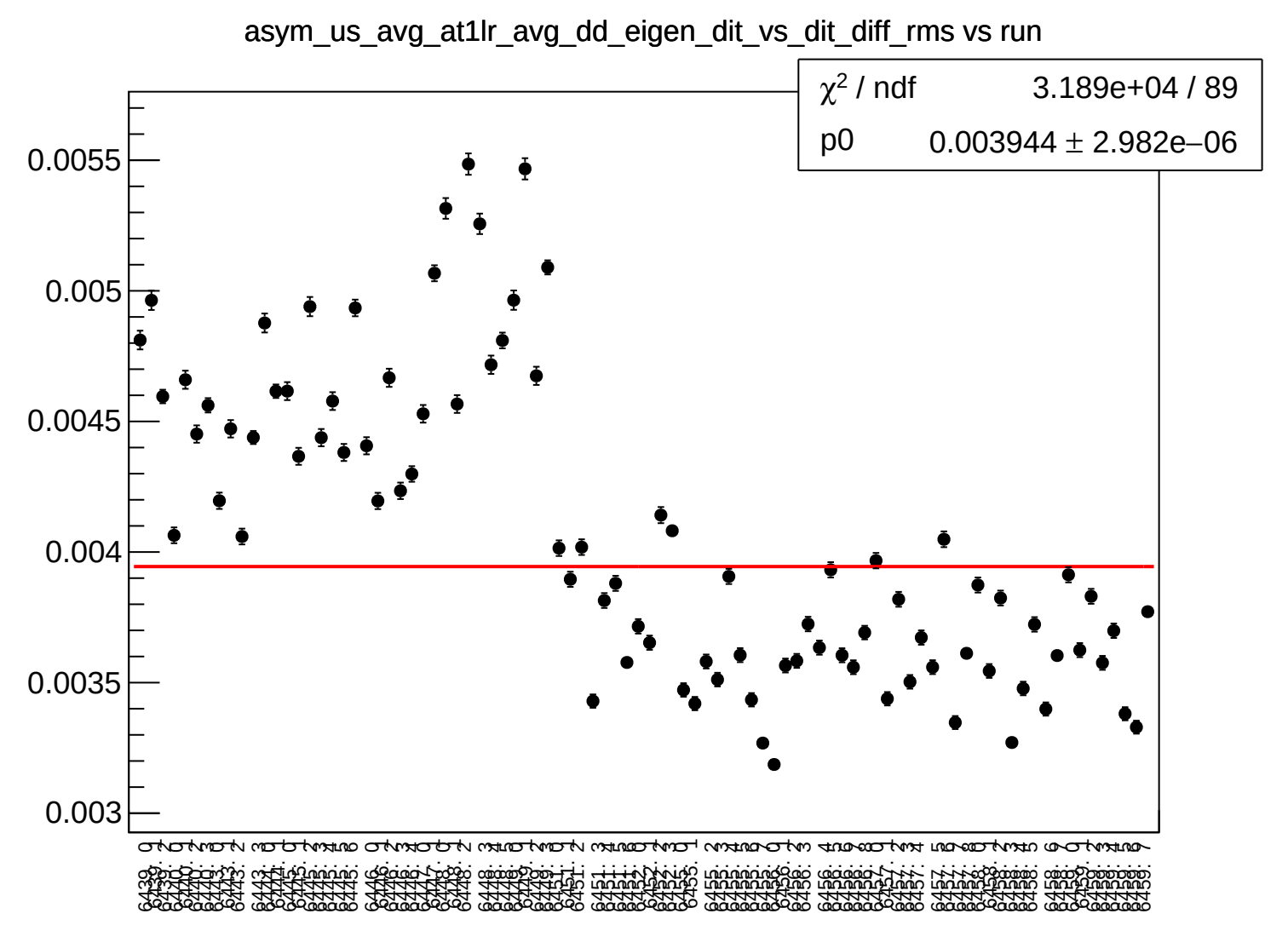

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.538e+05 / 89
p0 57.27 ± 0.04488
120
100
80
60
40

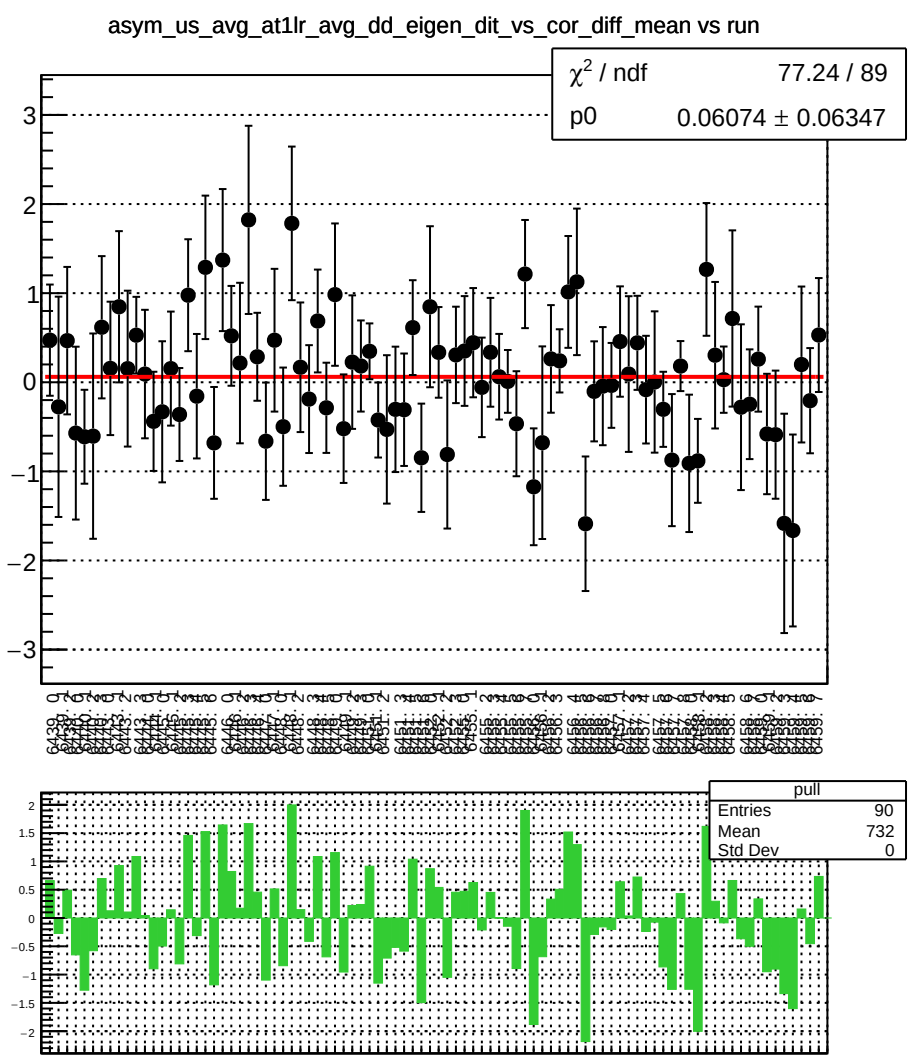

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.24 / 89
p0 0.06075 ± 0.06347
pull
Entries 90
Mean 732.2
Std Dev 0
pull1D
Entries 90
Mean −0.006132
Std Dev 0.9264

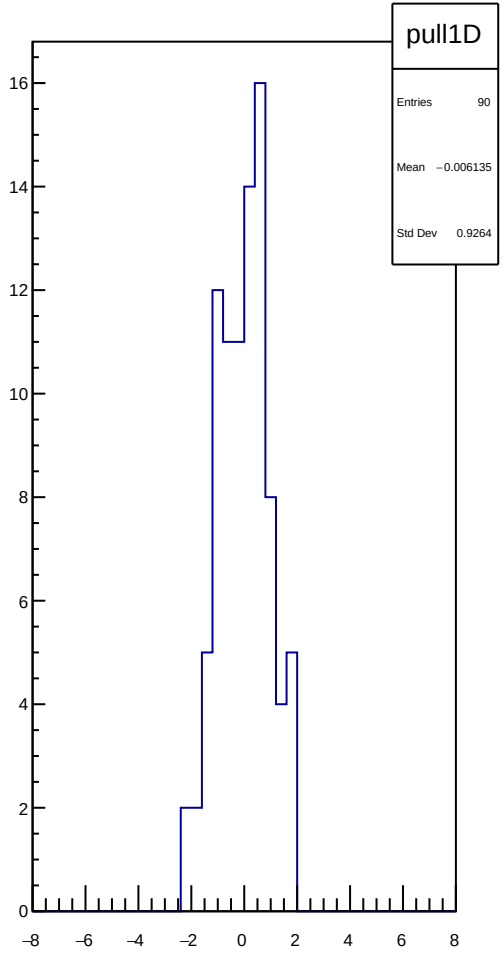

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.538e+05 / 89
p0 57.27 ± 0.04488
120
100
80
60
40

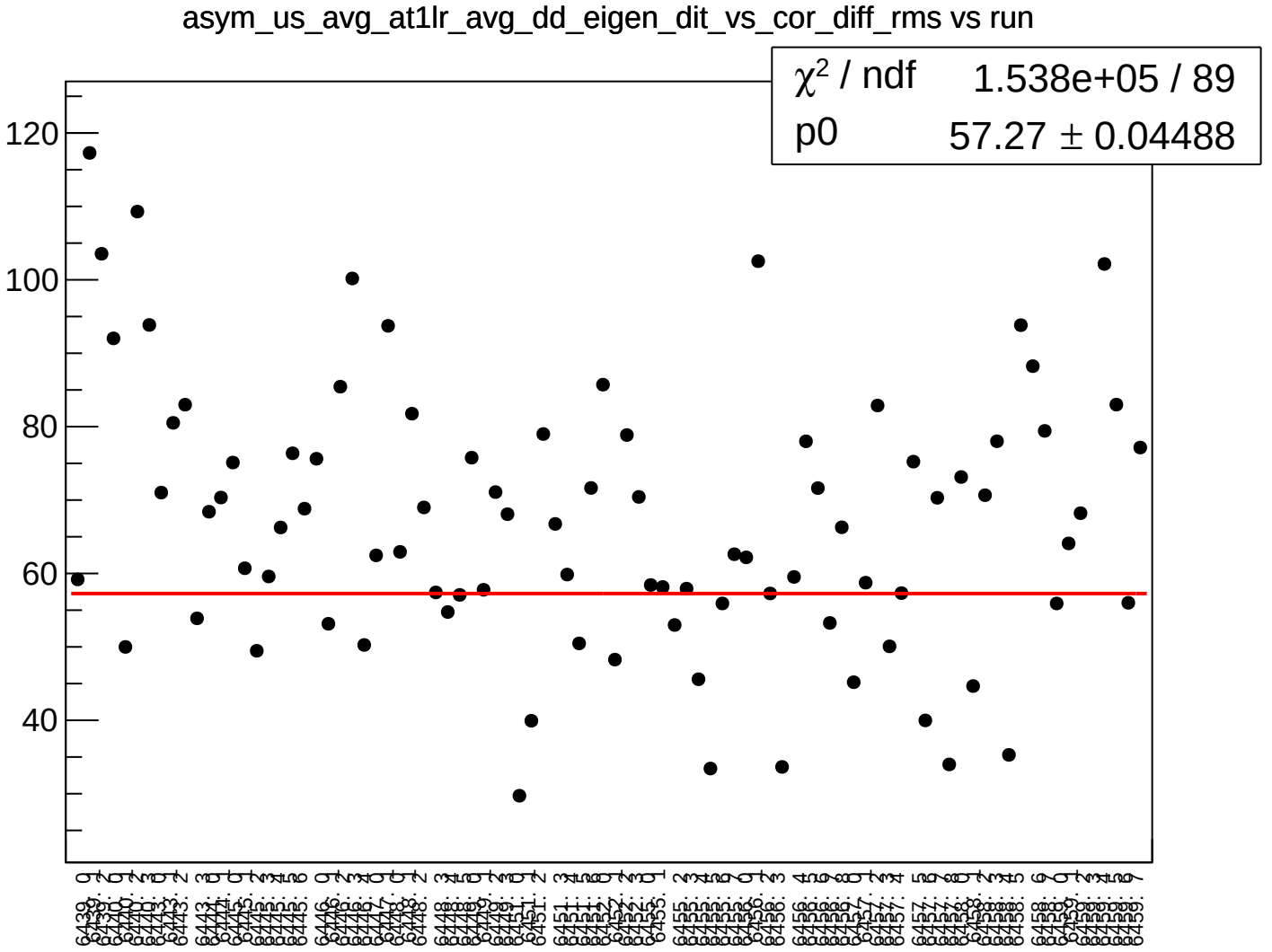

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 75.79 / 89
p0 −9.96e−06 ± 4.217e−06
pull
Entries 90
Mean 109.5
Std Dev 95.08


pull1D
Entries 90
Mean 0.005831
Std Dev 0.9177

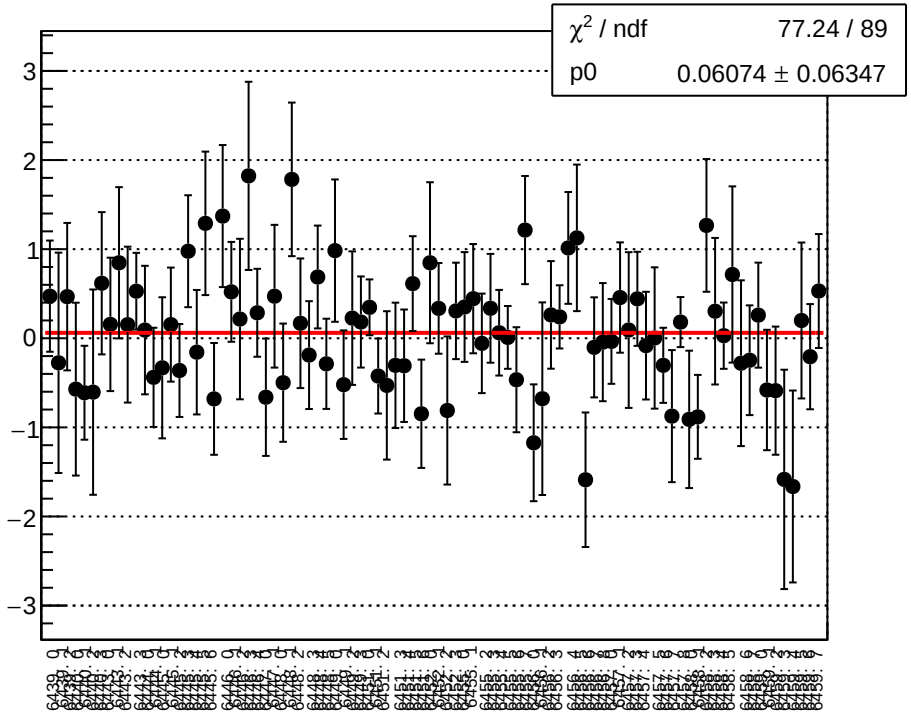

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.189e+04 / 89
p0 0.003944 ± 2.982e−06
0.0055
0.005
0.0045
0.004
0.0035
0.003

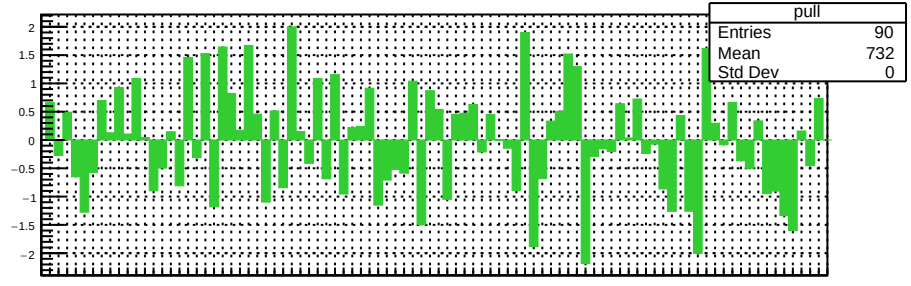

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.24 / 89
p0 0.06074 ± 0.06347
pull
Entries 90
Mean 732
Std Dev 0

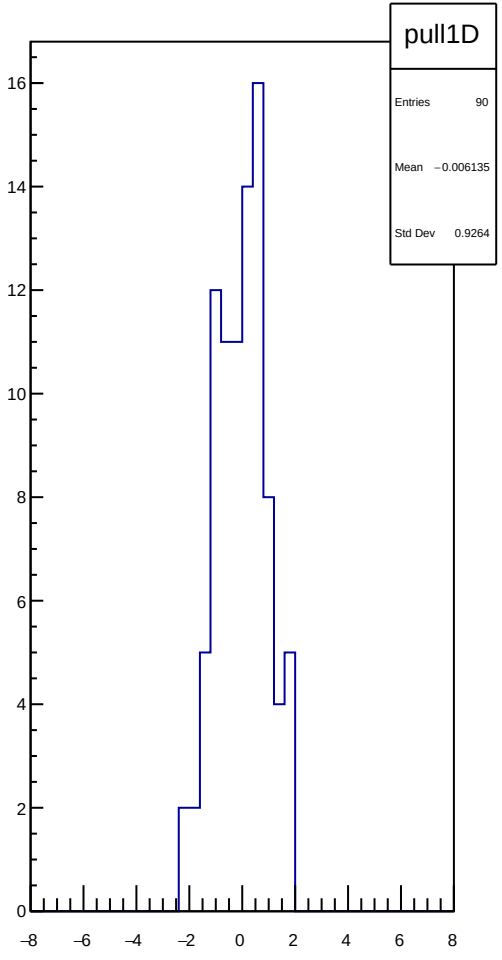

pull1D
Entries 90
Mean −0.006135
Std Dev 0.9264

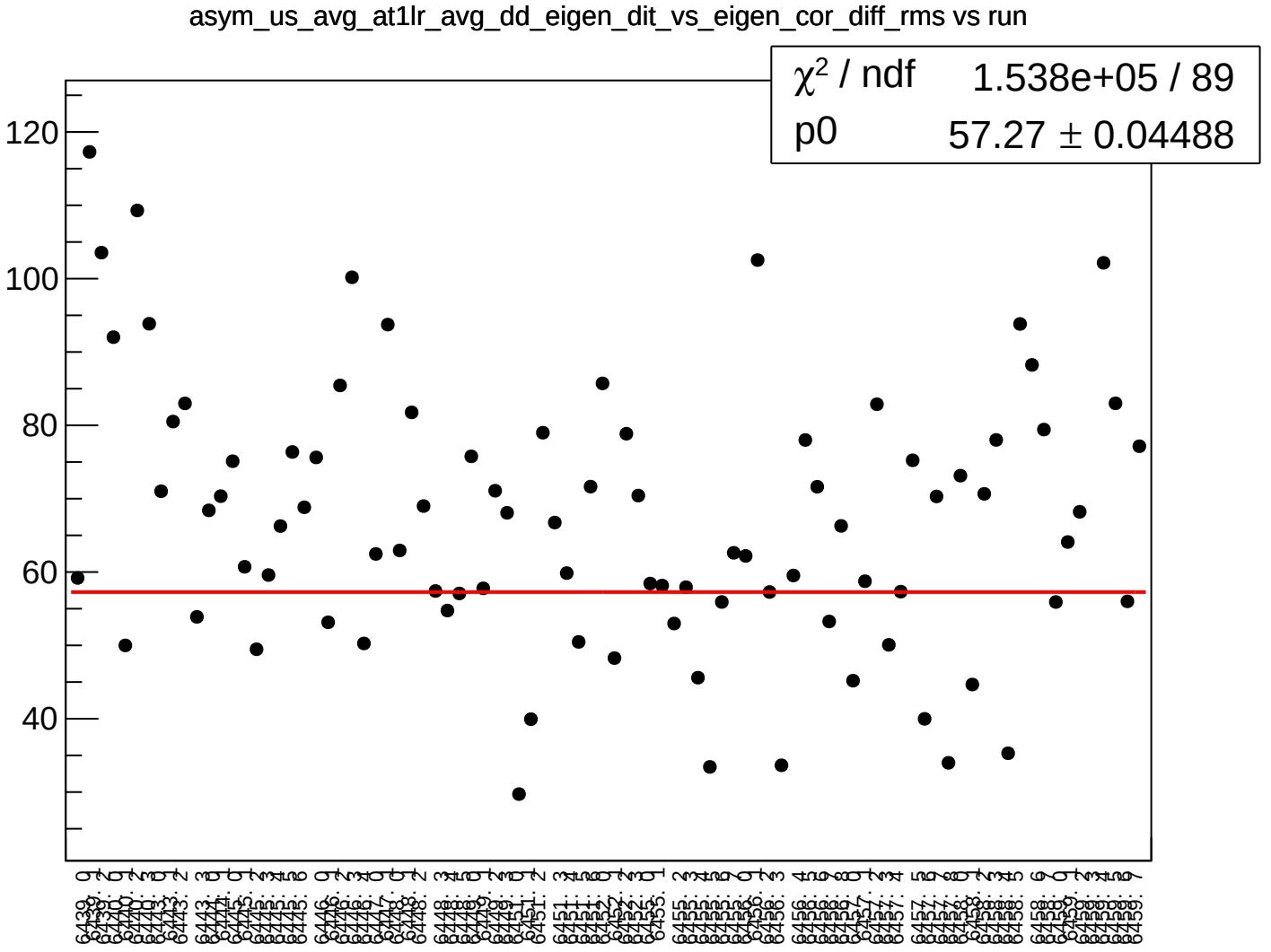

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.538e+05 / 89
p0 57.27 ± 0.04488
120
100
80
60
40

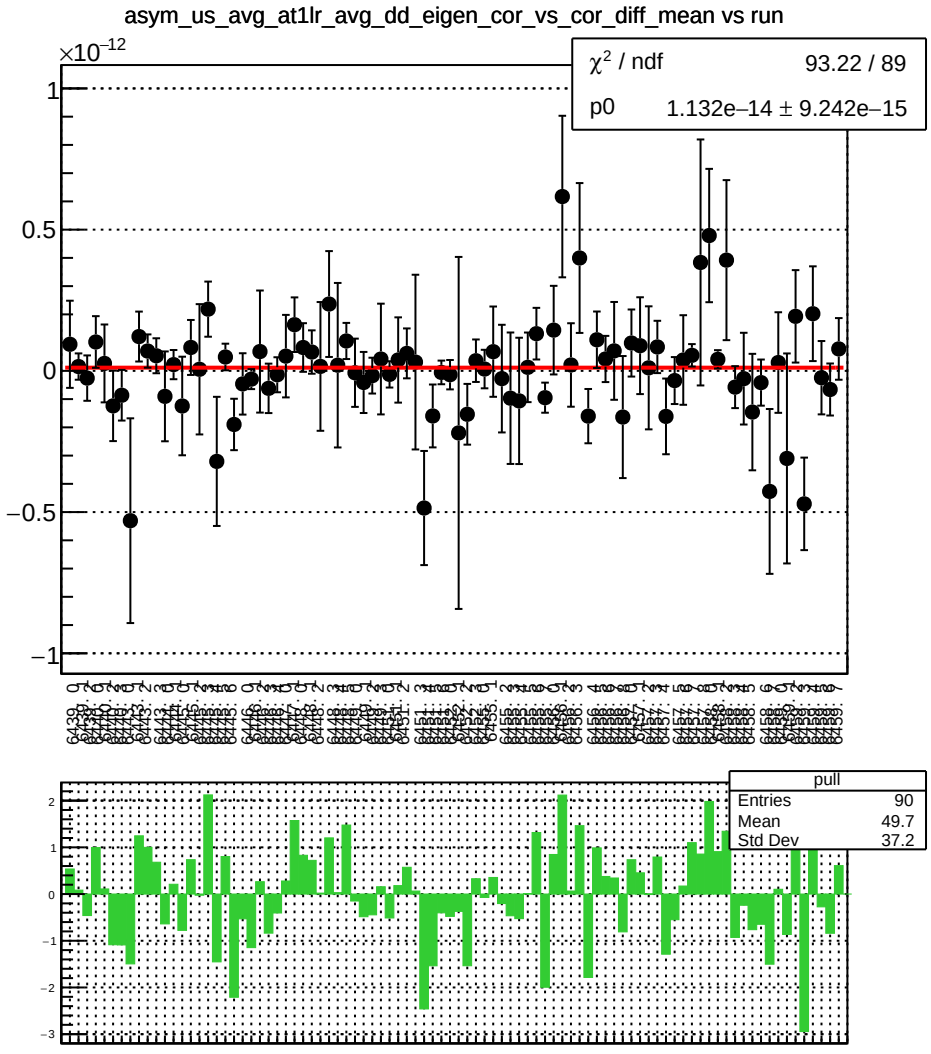
asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

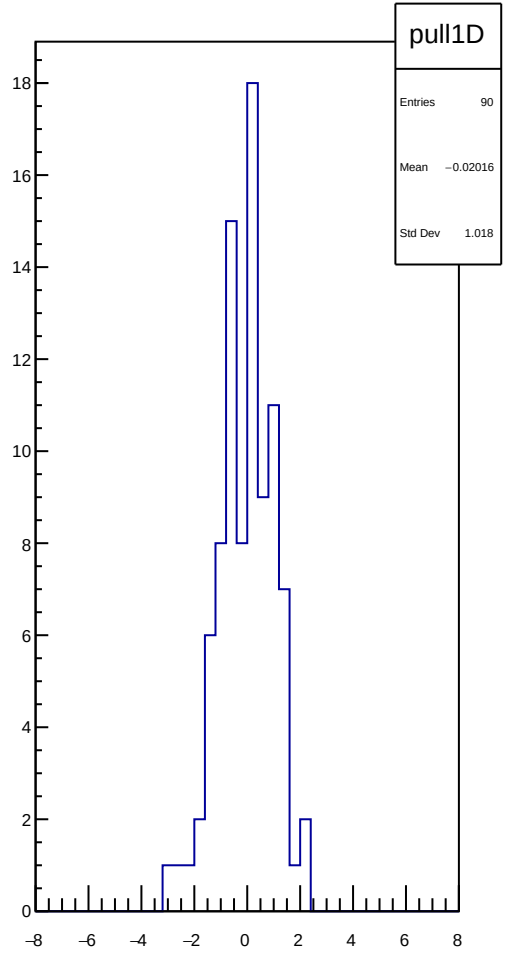


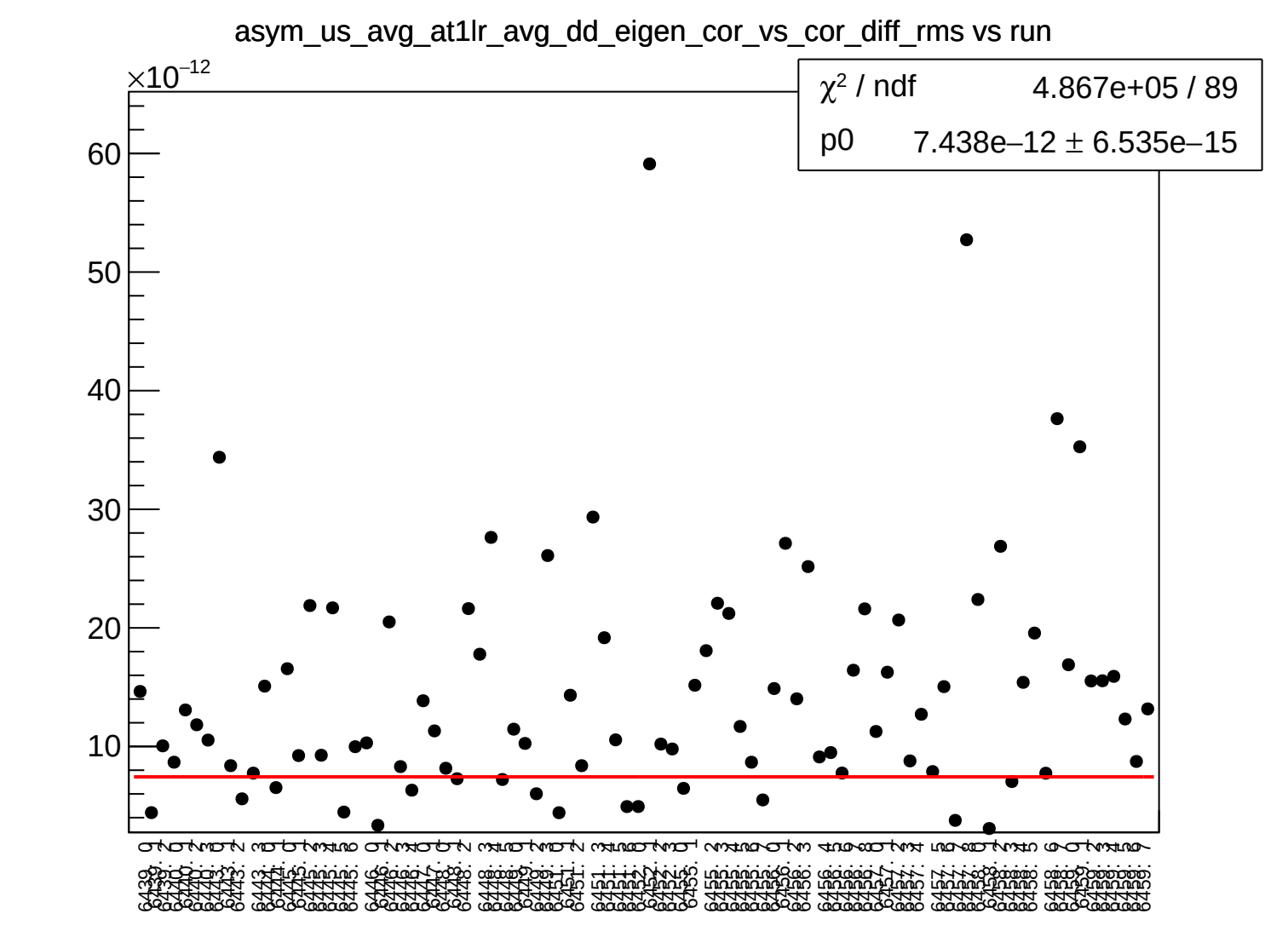


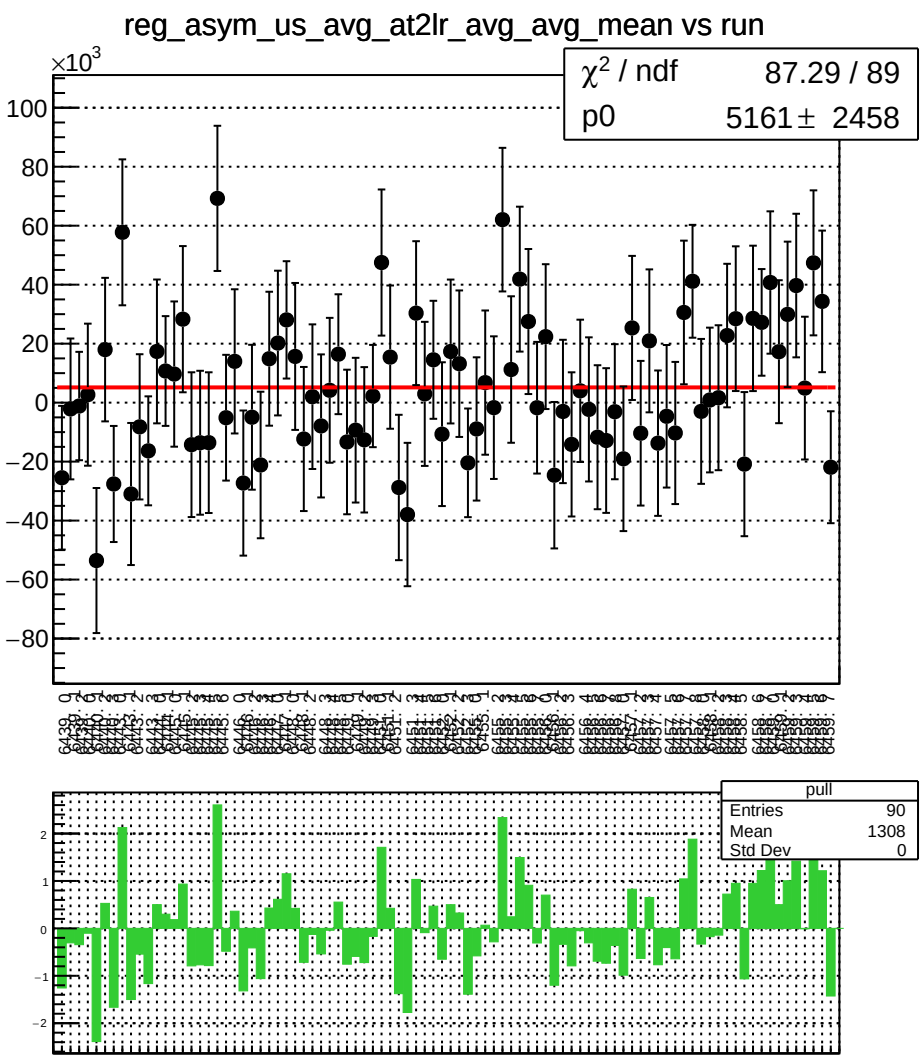


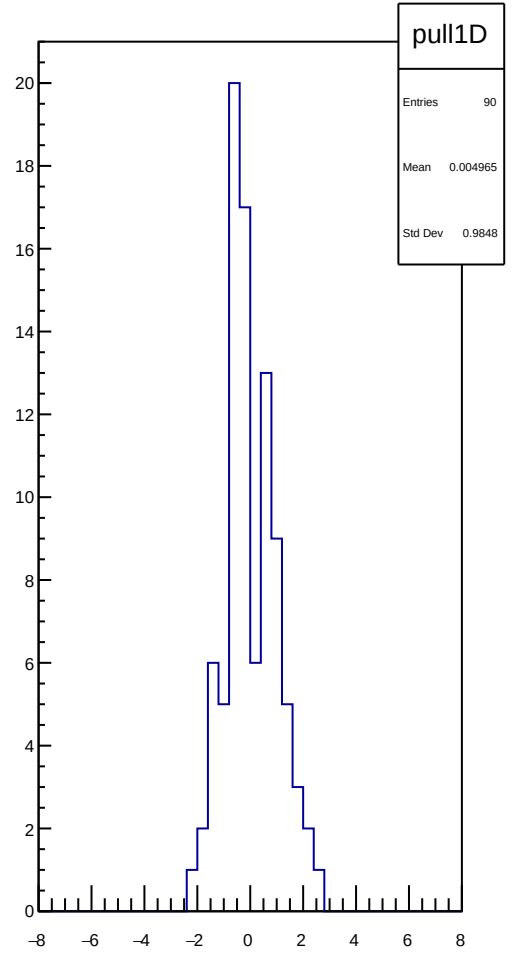

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.538e+05 / 89
p0 57.27 ± 0.04488
120
100
80
60
40

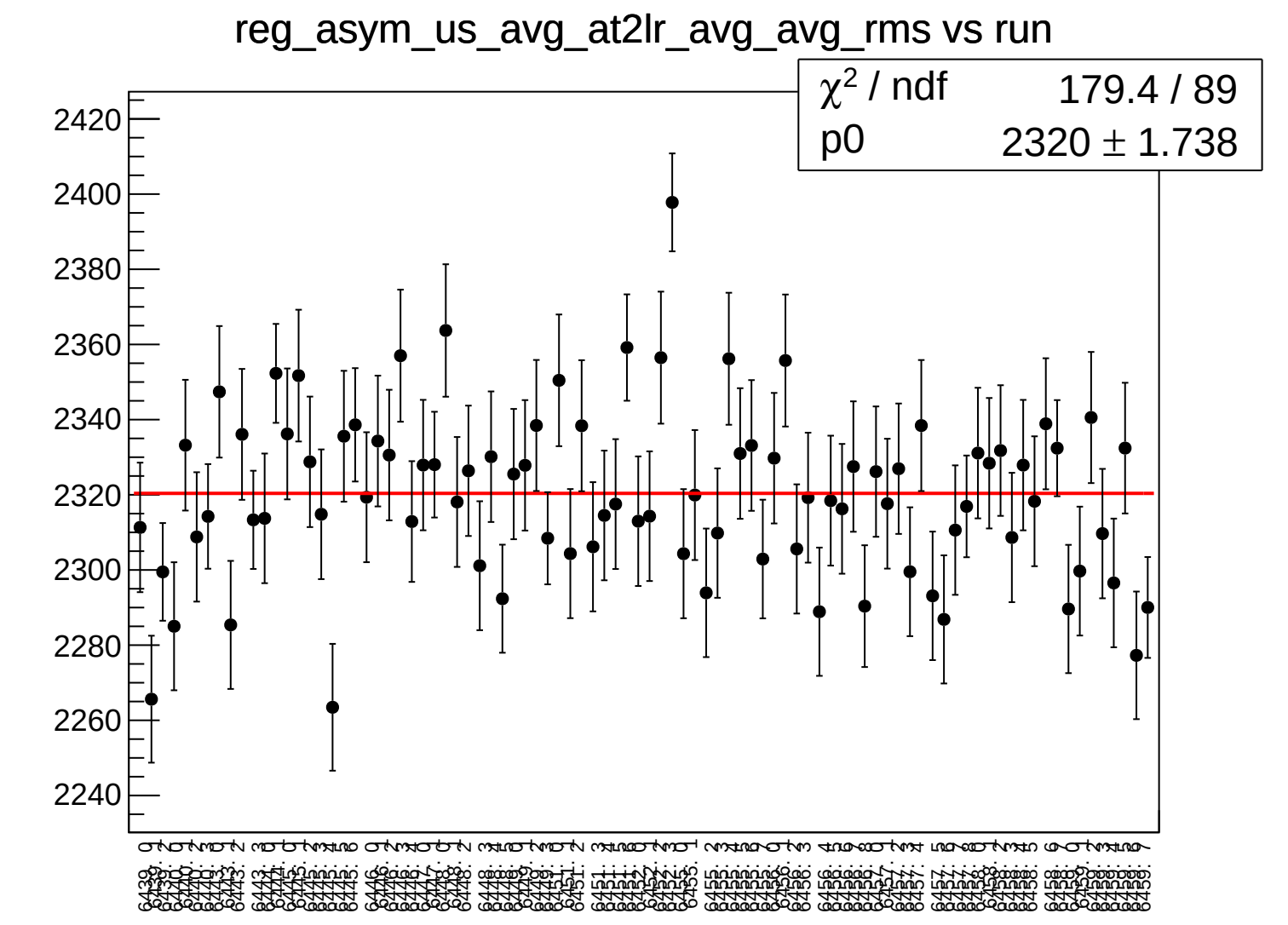

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.22 / 89
p0 1.132e−14 ± 9.242e−15
pull
Entries 90
Mean 49.7
Std Dev 37.2

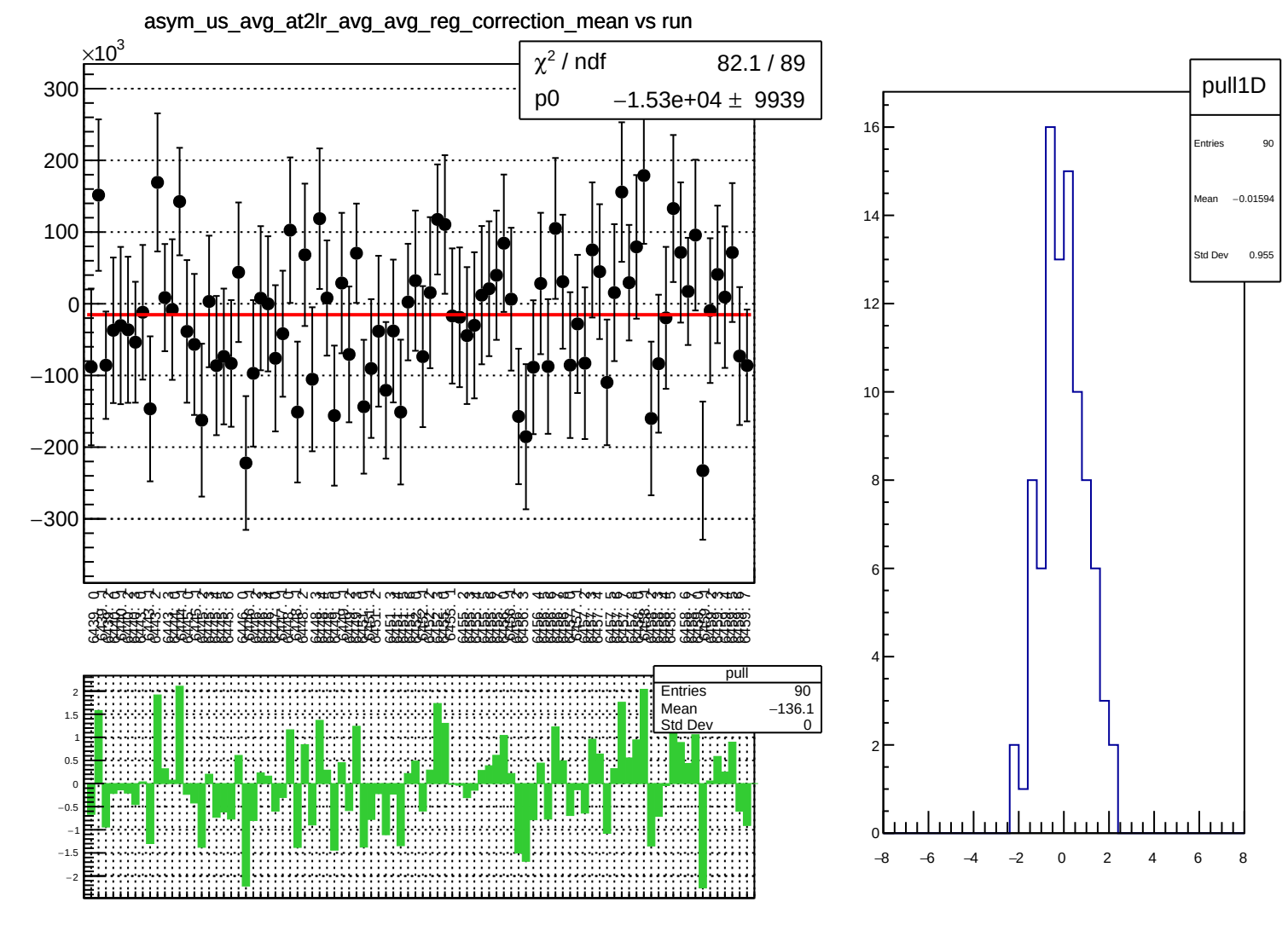

pull1D
Entries 90
Mean −0.02016
Std Dev 1.018

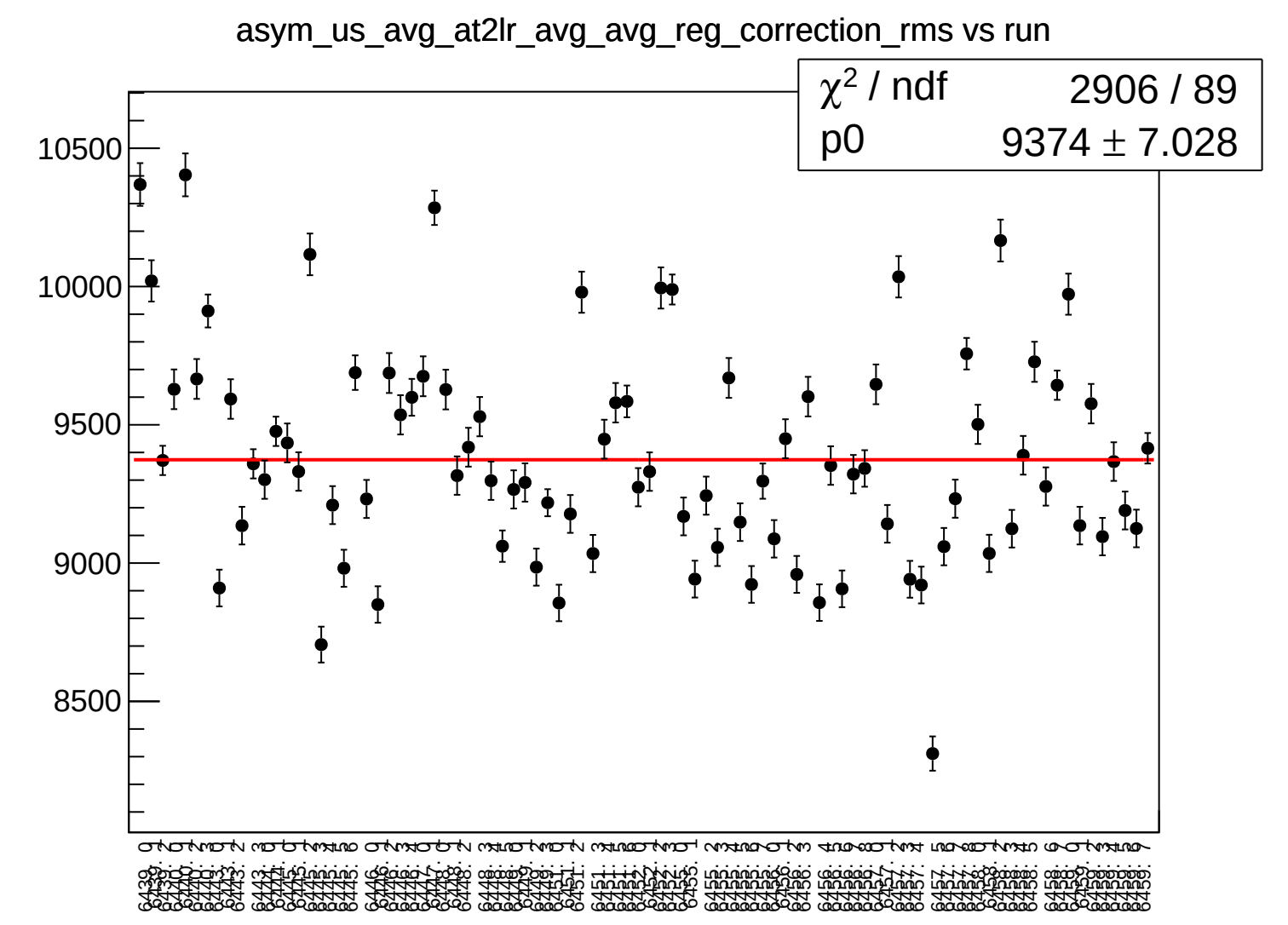

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.867e+05 / 89
p0 7.438e−12 ± 6.535e−15
60
50
40
30
20
10

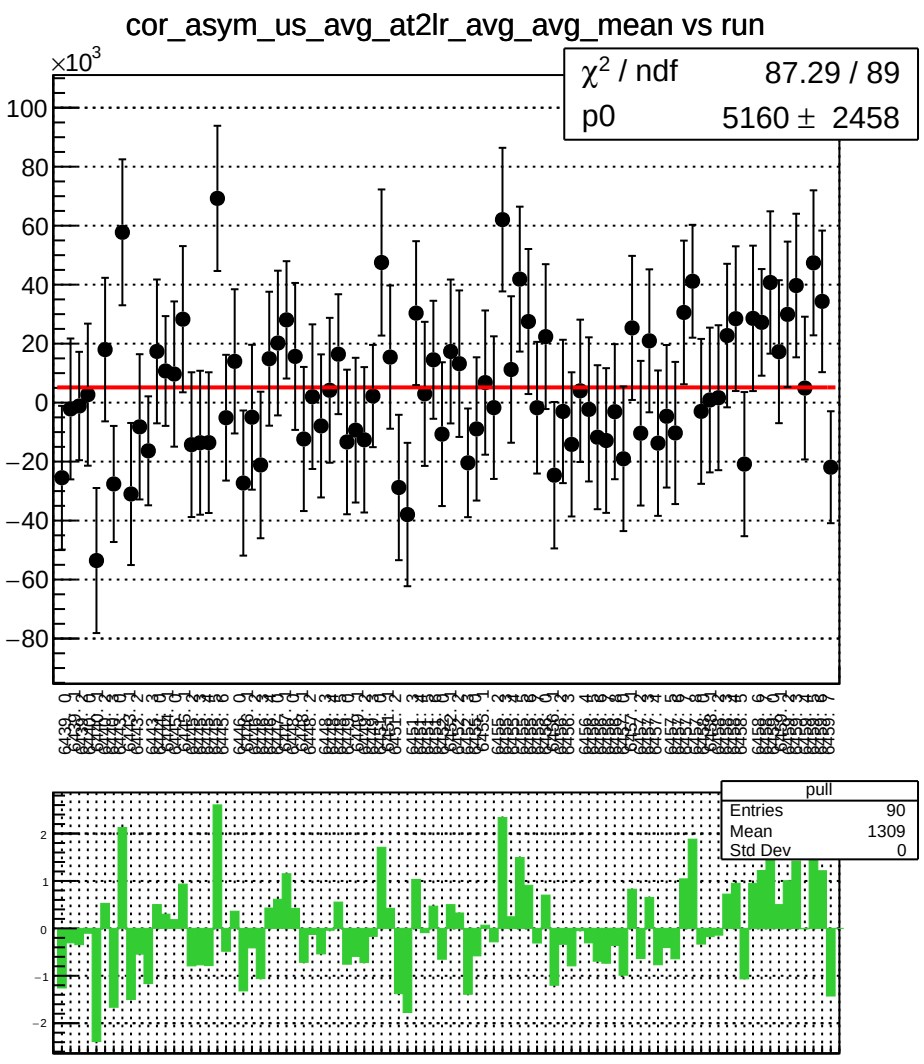

reg_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 87.29 / 89
p0 5161 ± 2458
100
80
60
40
20
0
−20
−40
−60
−80
pull
Entries 90
Mean 1308
Std Dev 0
2
1
0
−1
−2

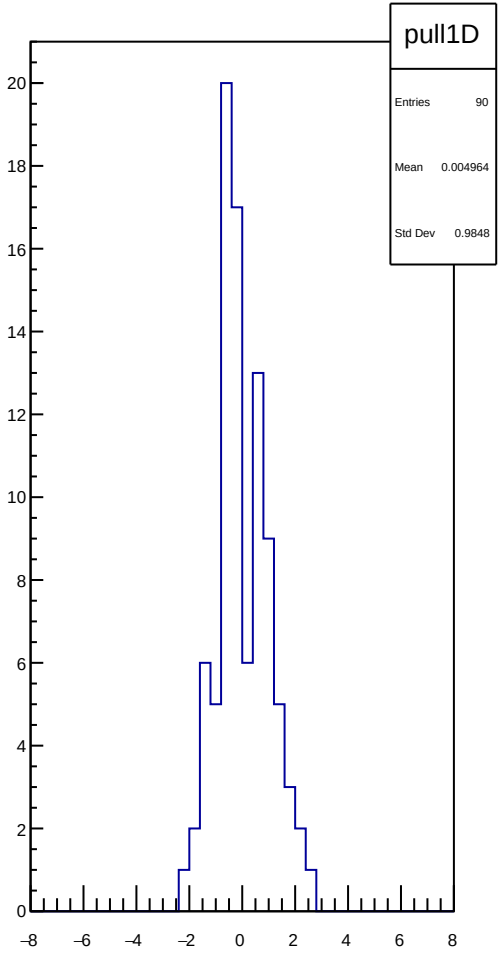

pull1D
Entries 90
Mean 0.004965
Std Dev 0.9848
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

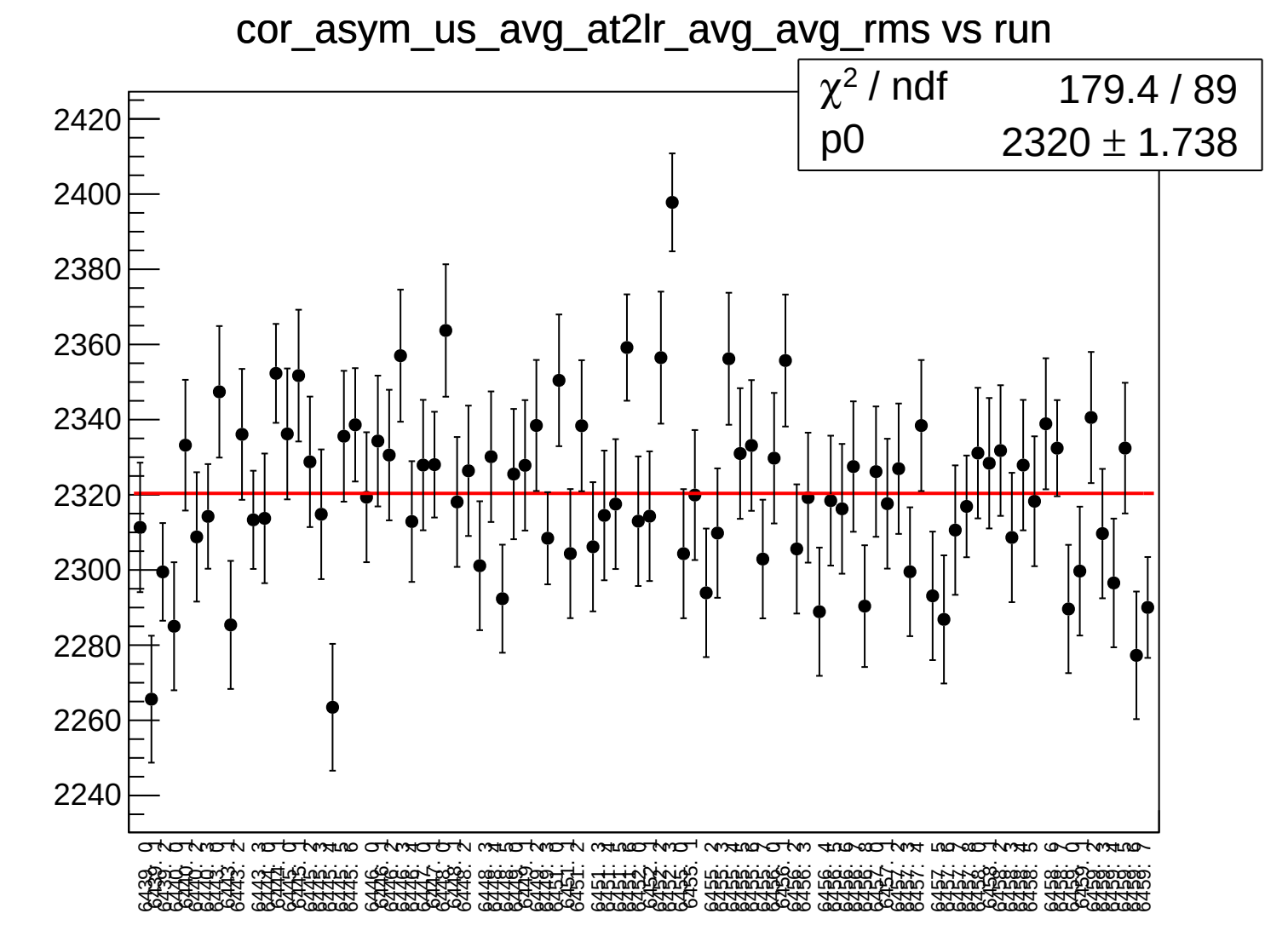

reg_asym_us_avg_at2lr_avg_avg_rms vs run
χ^2 / ndf 179.4 / 89
p0 2320 ± 1.738
2420
2400
2380
2360
2340
2320
2300
2280
2260
2240

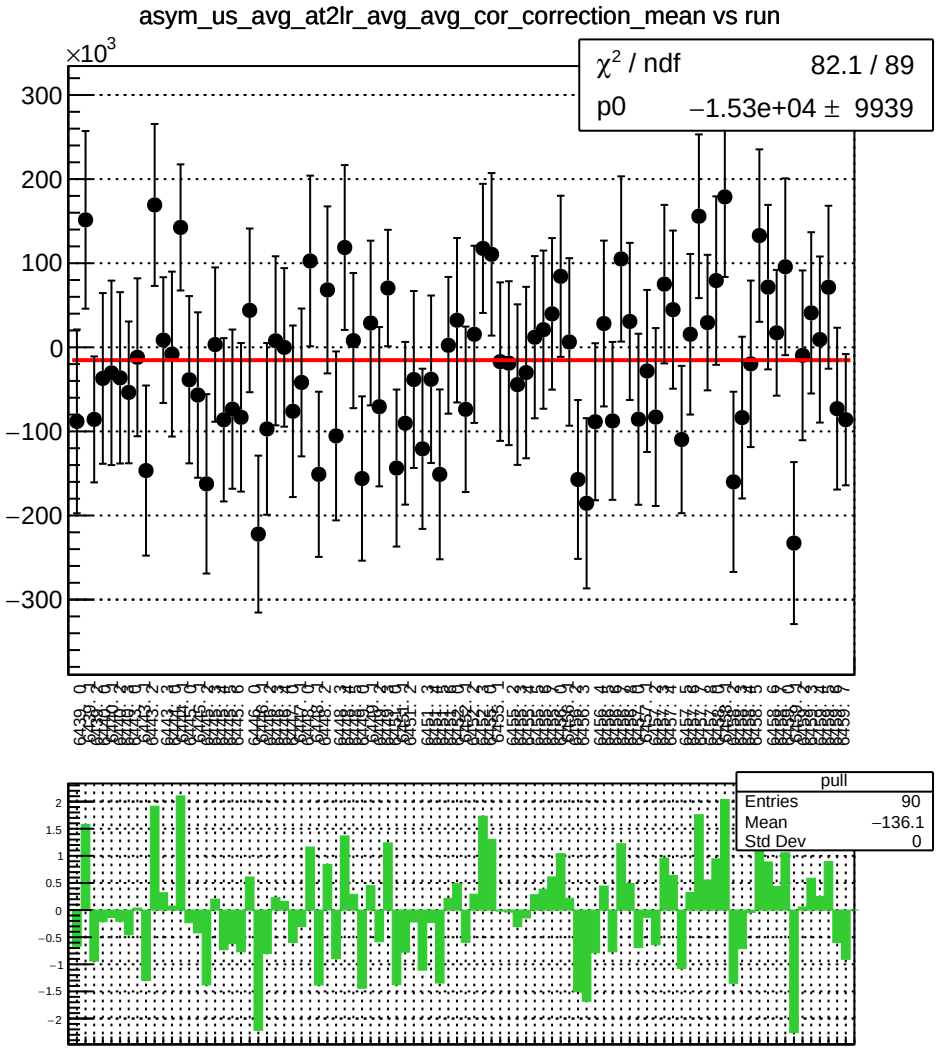

asym_us_avg_at2lr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 82.1 / 89
p0 −1.53e+04 ± 9939
300
200
100
0
−100
−200
−300
pull
Entries 90
Mean −136.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 90
Mean −0.01594
Std Dev 0.955
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

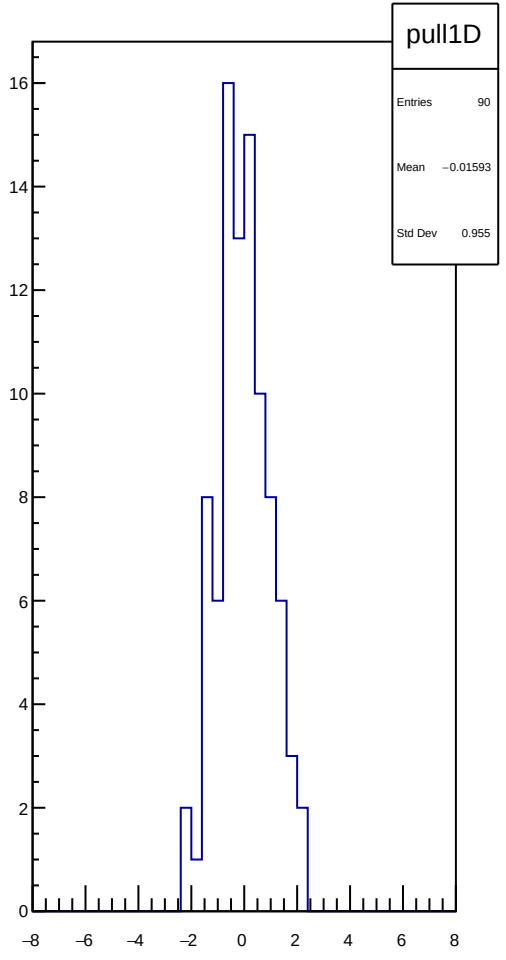

asym_us_avg_at2lr_avg_avg_reg_correction_rms vs run
χ² / ndf 2906 / 89
p0 9374 ± 7.028
10500
10000
9500
9000
8500

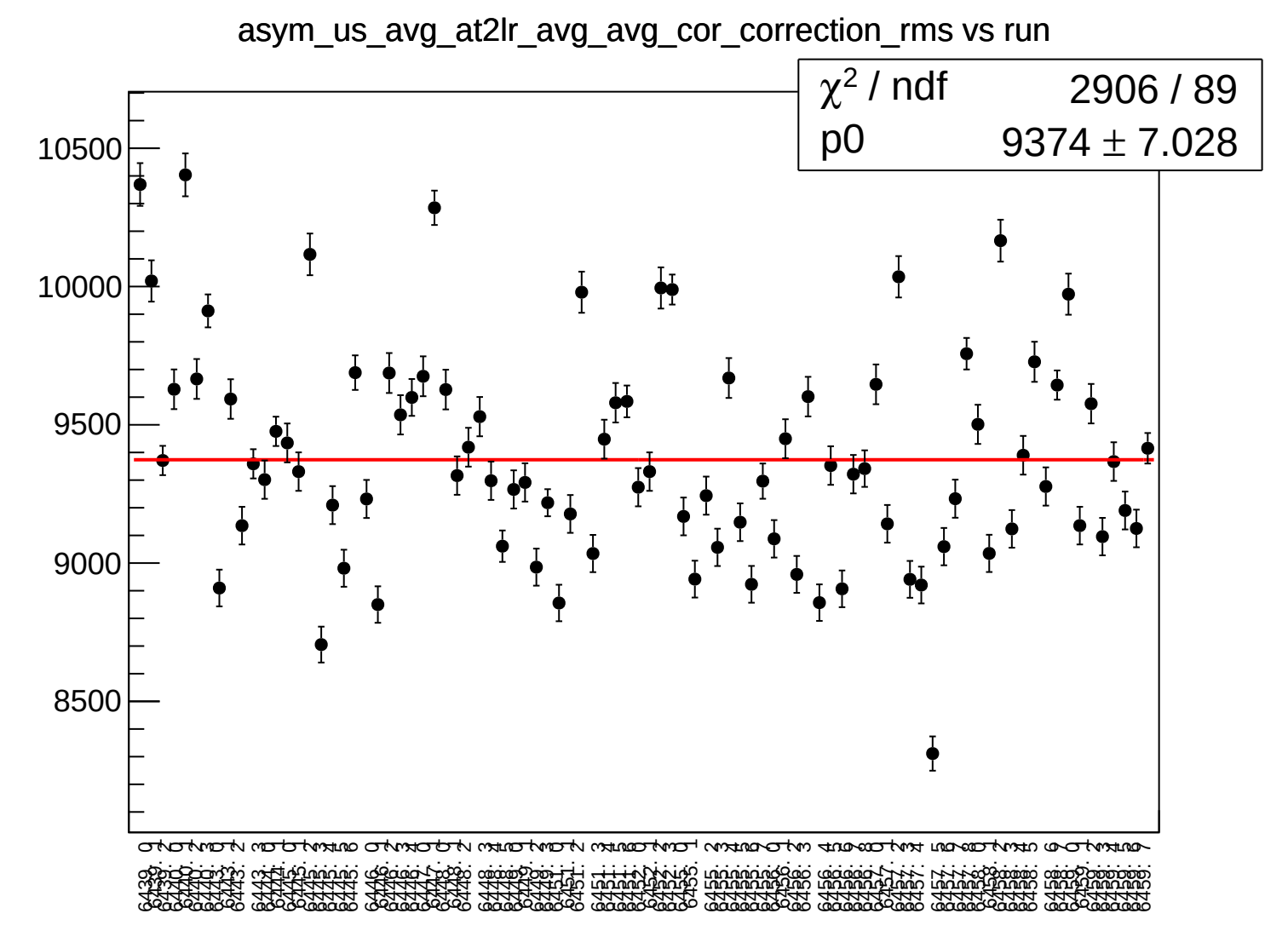

cor_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 87.29 / 89
p0 5160 ± 2458
pull
Entries 90
Mean 1309
Std Dev 0

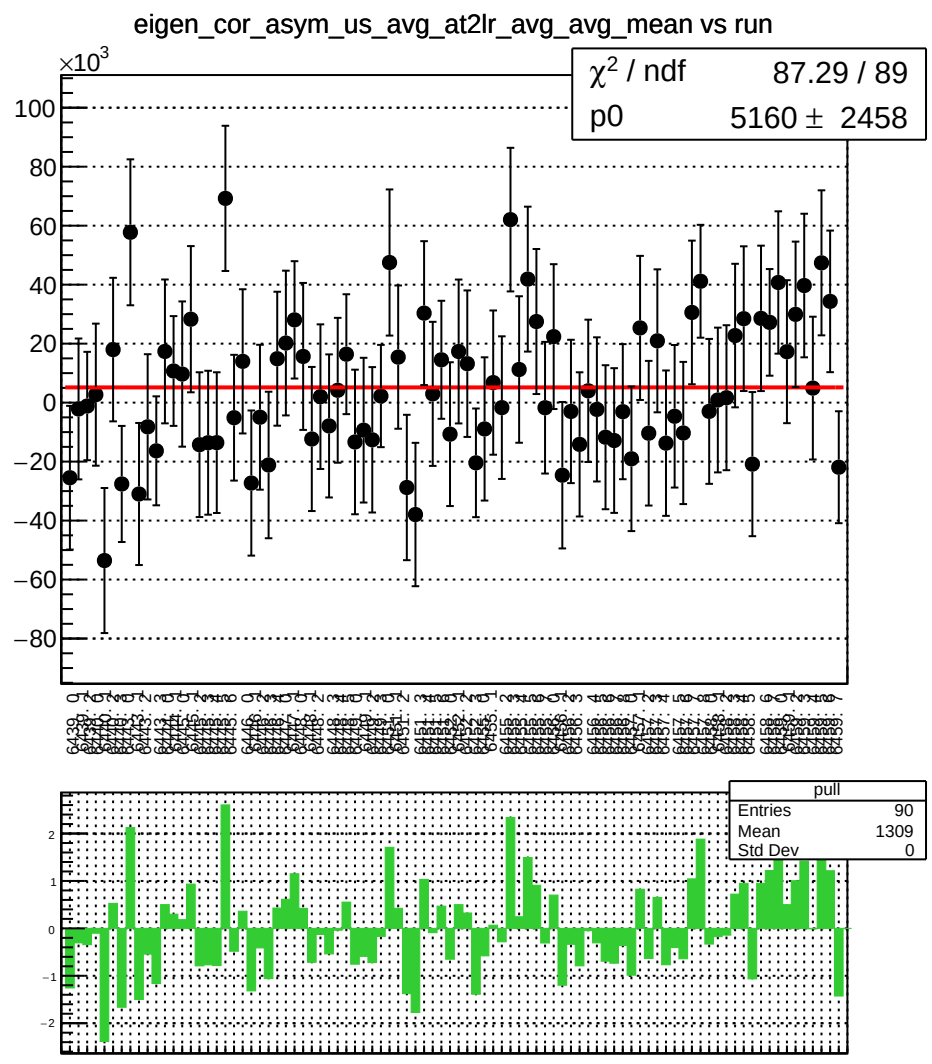

pull1D
Entries 90
Mean 0.004964
Std Dev 0.9848

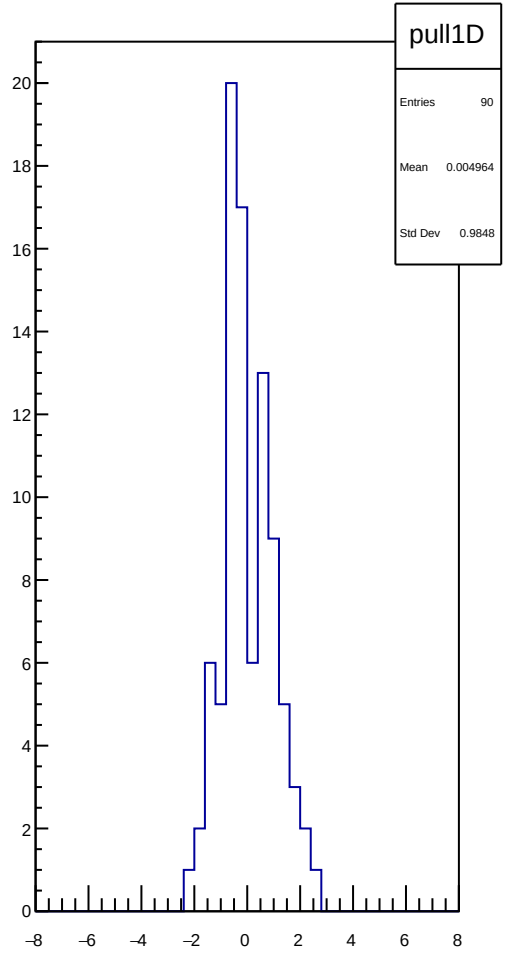

cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 179.4 / 89
p0 2320 ± 1.738
2420
2400
2380
2360
2340
2320
2300
2280
2260
2240

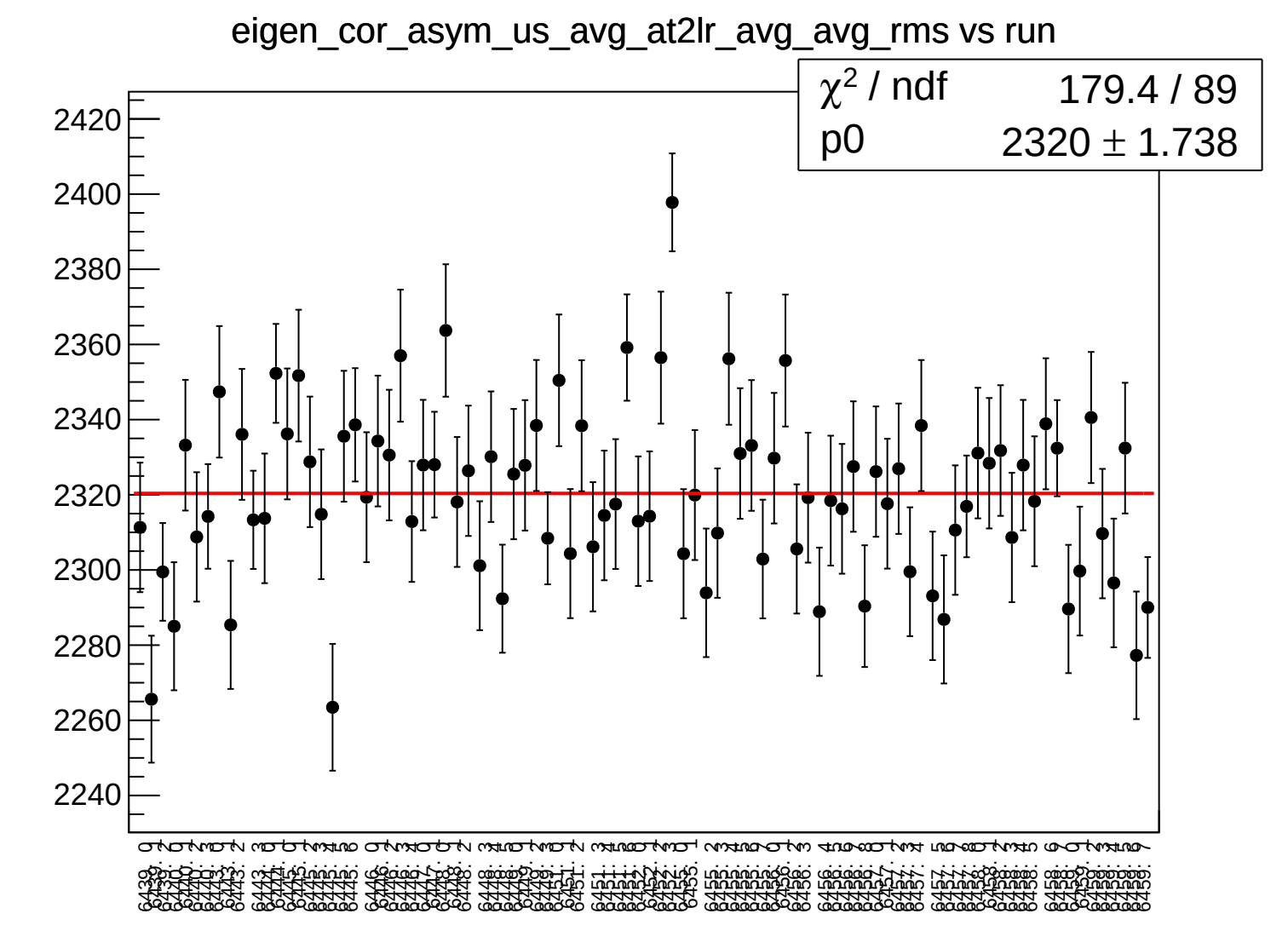

asym_us_avg_at2lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 82.1 / 89
p0 −1.53e+04 ± 9939
300
200
100
0
−100
−200
−300
pull
Entries 90
Mean −136.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

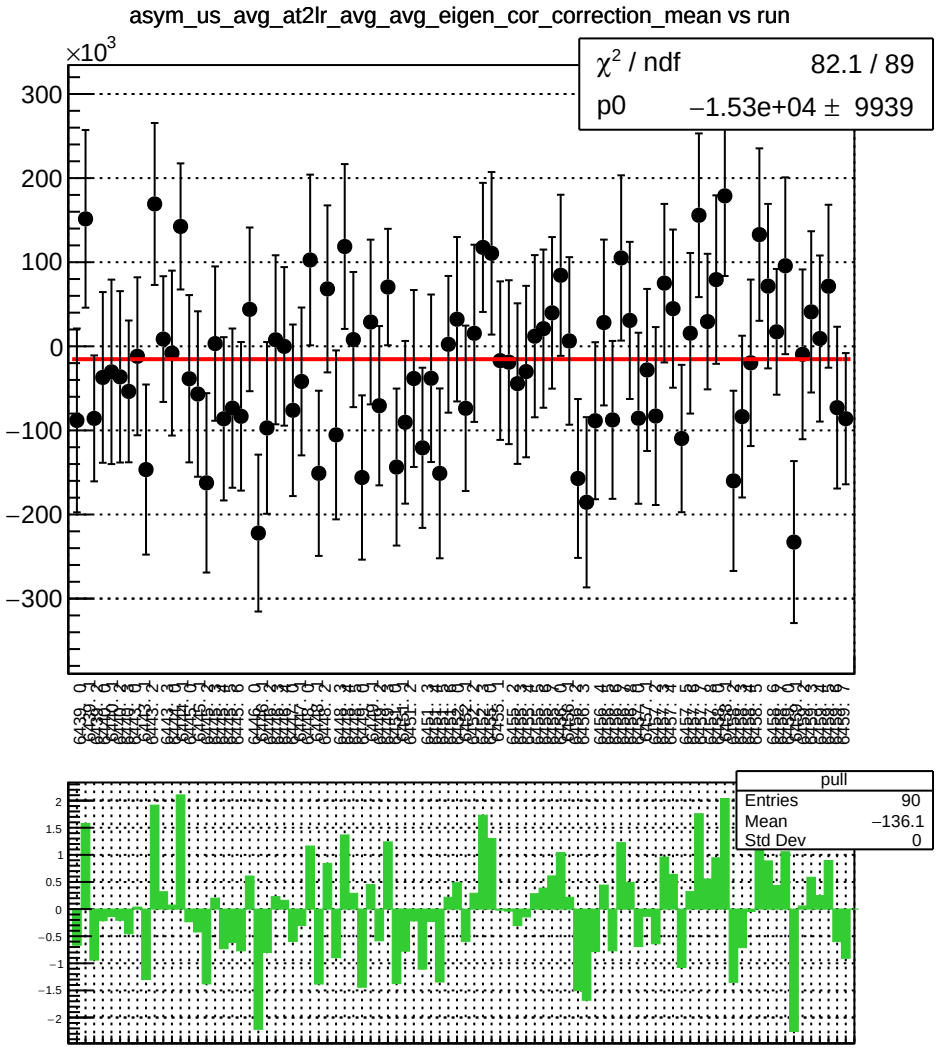

pull1D
Entries 90
Mean −0.01593
Std Dev 0.955
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

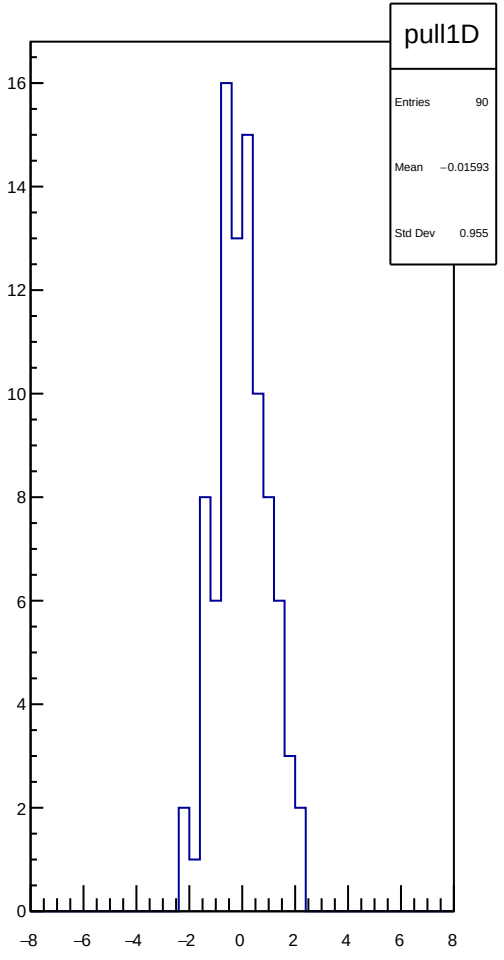

asym_us_avg_at2lr_avg_avg_cor_correction_rms vs run
χ² / ndf 2906 / 89
p0 9374 ± 7.028
10500
10000
9500
9000
8500

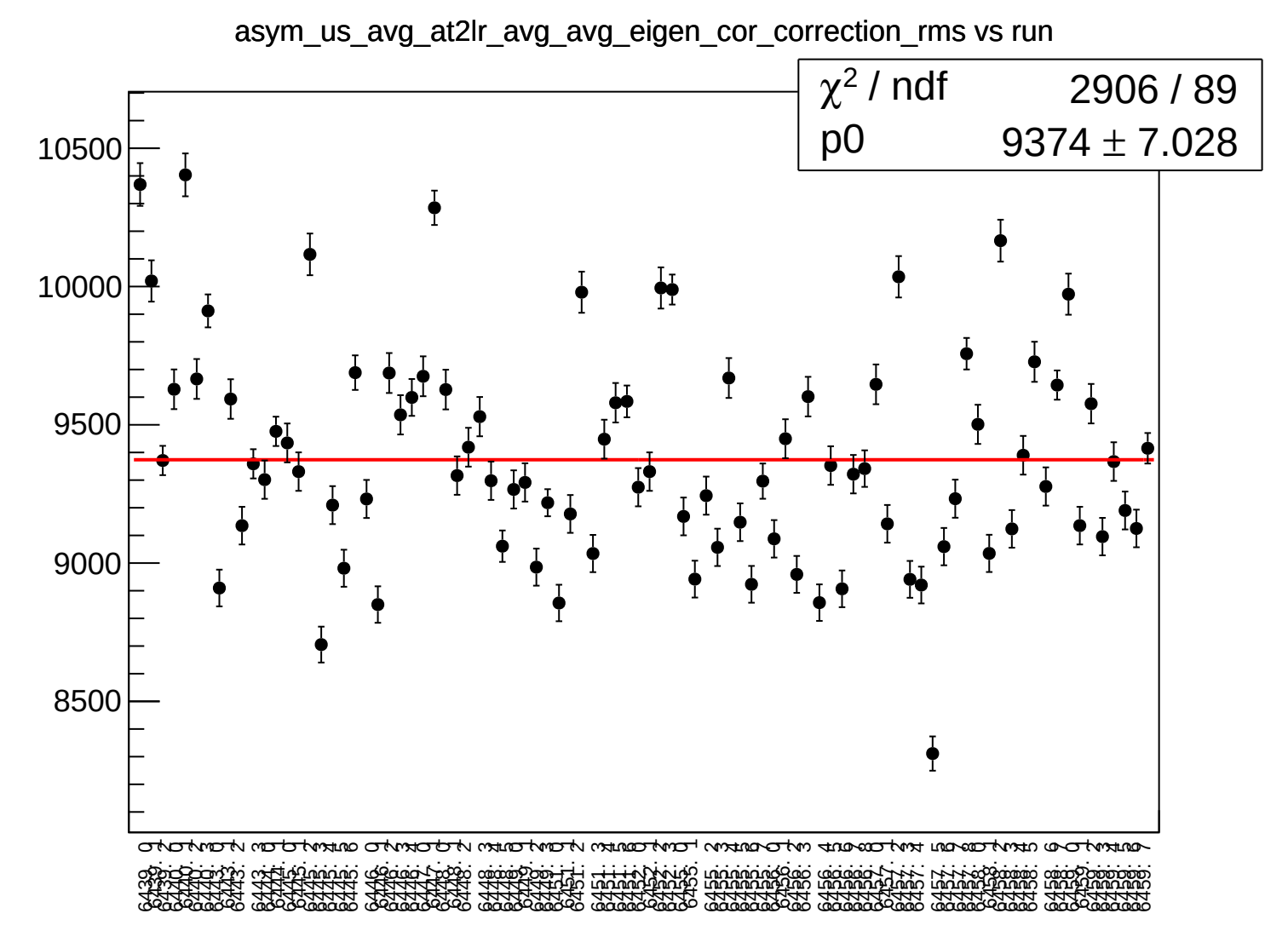

eigen_cor_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 87.29 / 89
p0 5160 ± 2458
pull
Entries 90
Mean 1309
Std Dev 0

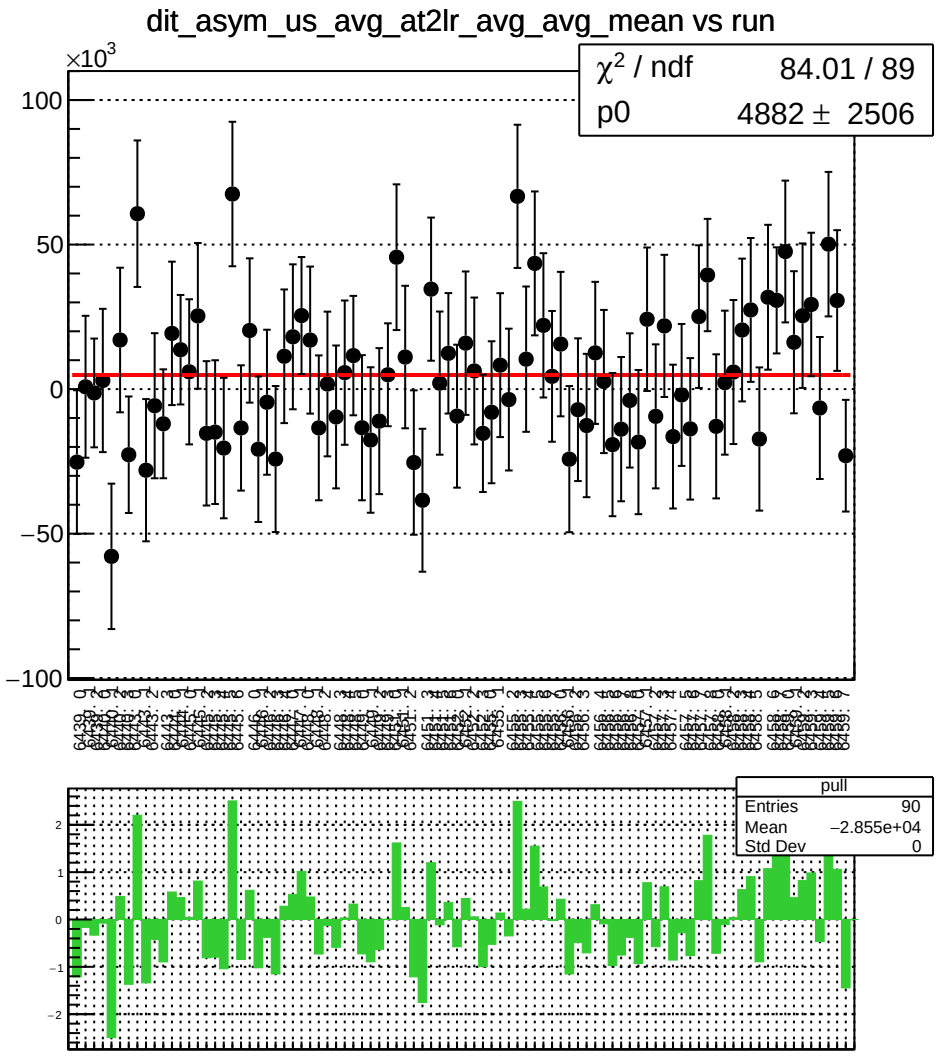

pull1D
Entries 90
Mean 0.004964
Std Dev 0.9848

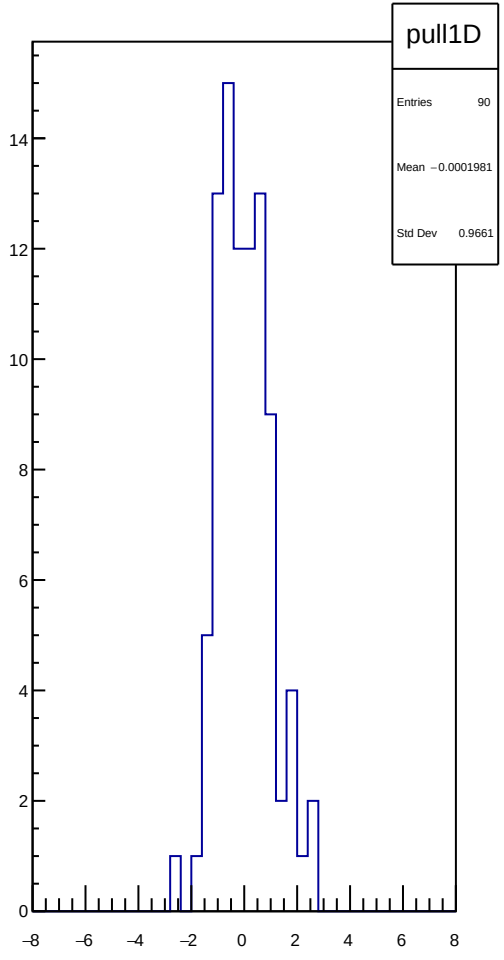

eigen_cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 179.4 / 89
p0 2320 ± 1.738
2420
2400
2380
2360
2340
2320
2300
2280
2260
2240

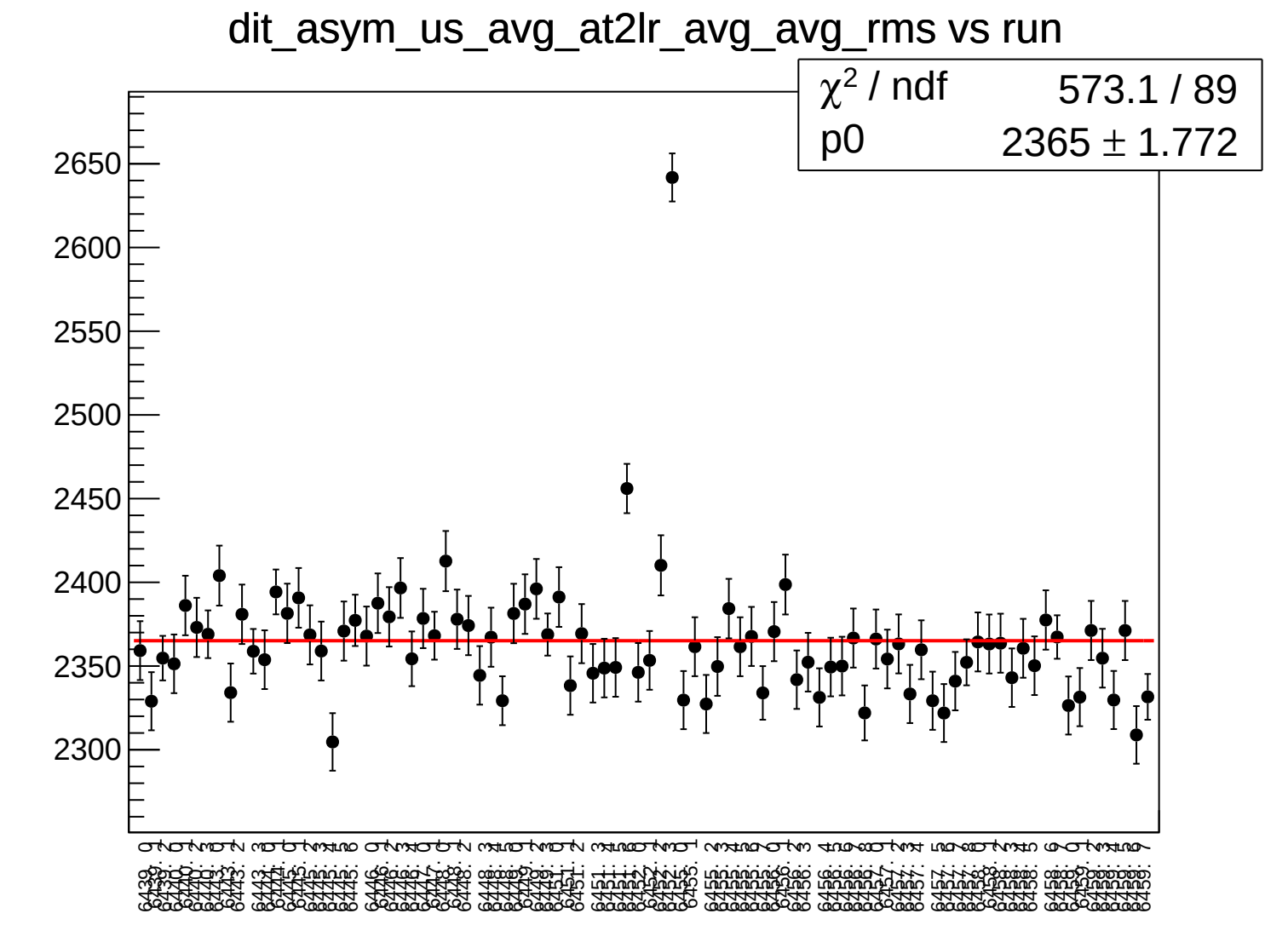

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 82.1 / 89
p0 −1.53e+04 ± 9939
300
200
100
0
−100
−200
−300
pull
Entries 90
Mean −136.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

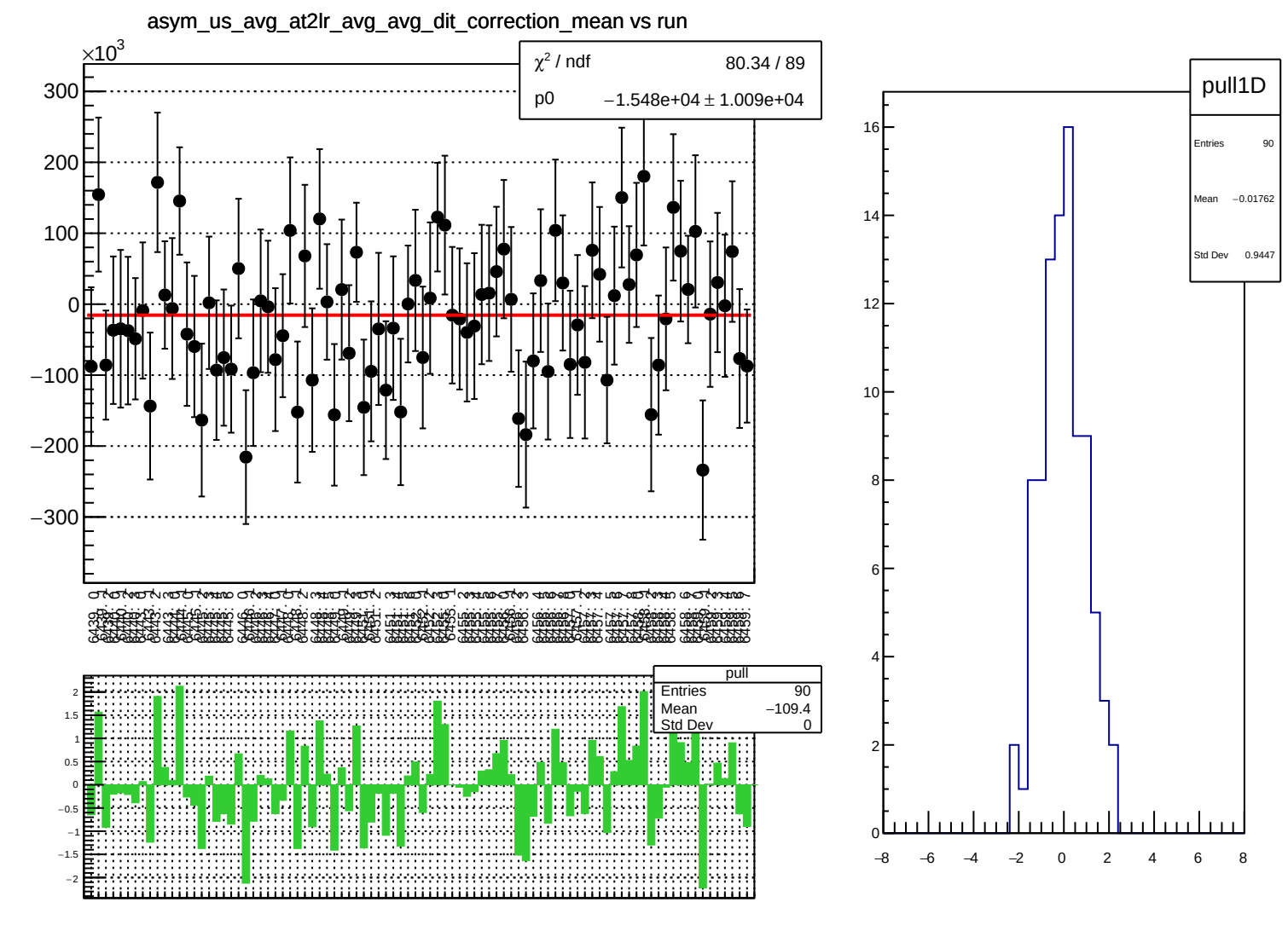

pull1D
Entries 90
Mean −0.01593
Std Dev 0.955
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

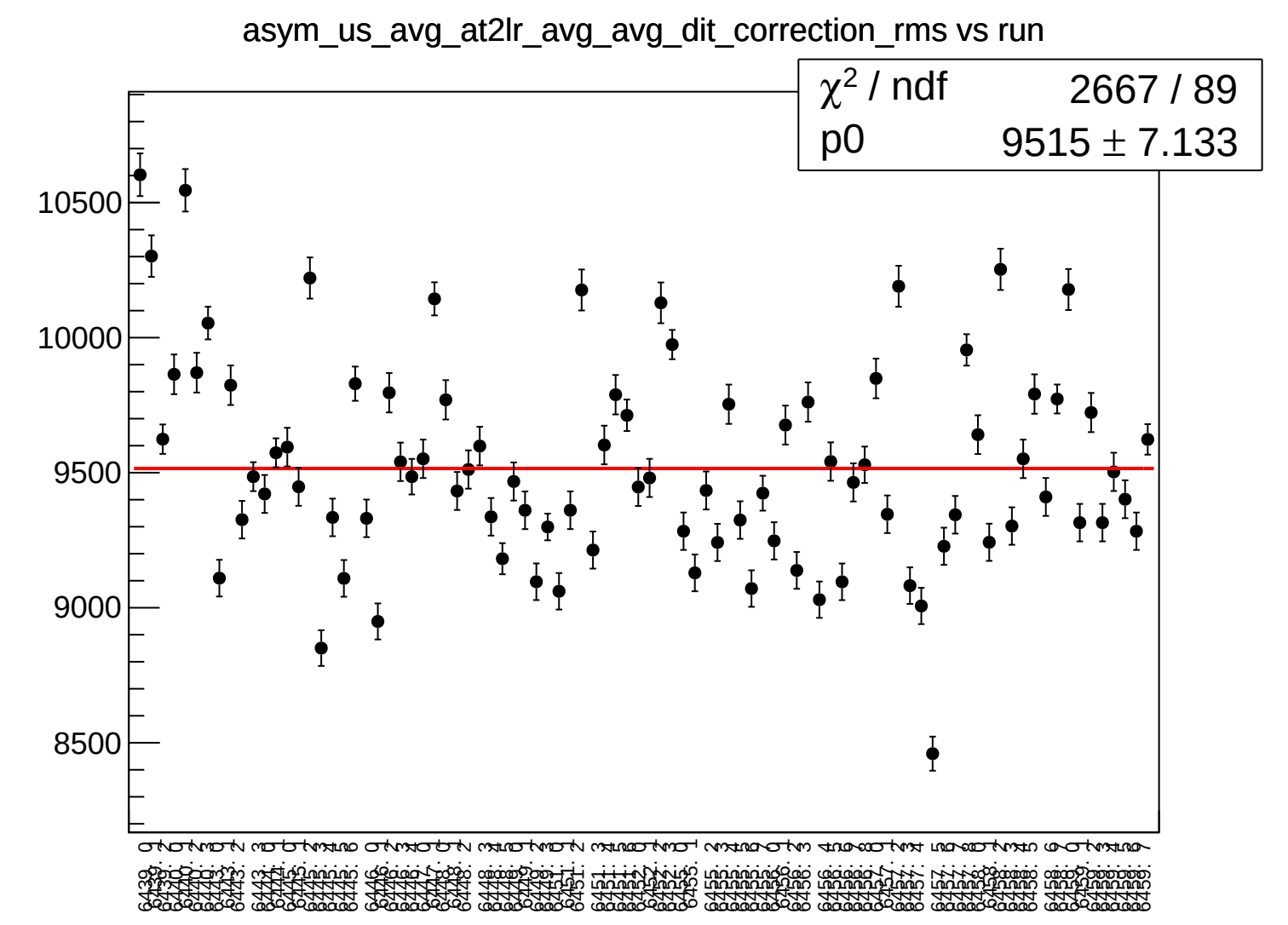

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 2906 / 89
p0 9374 ± 7.028
10500
10000
9500
9000
8500

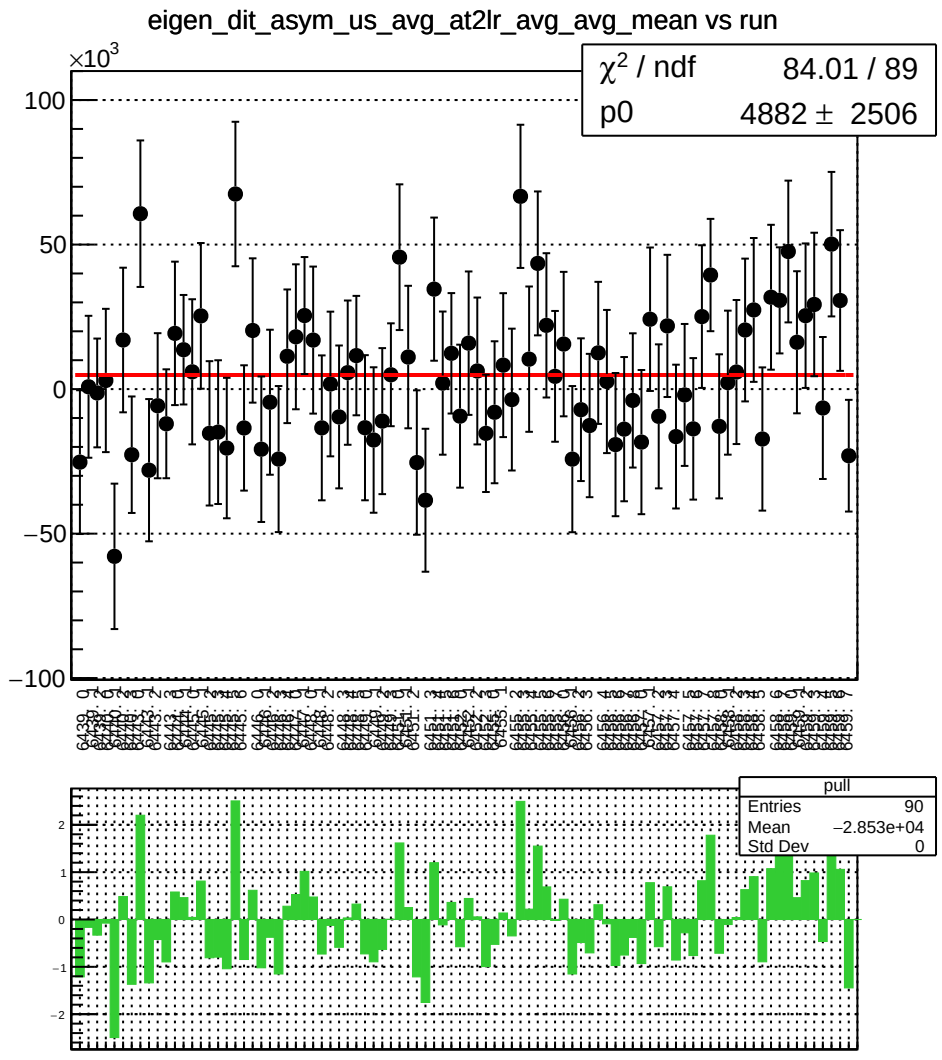

dit_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 84.01 / 89
p0 4882 ± 2506
100
50
0
−50
−100
pull
Entries 90
Mean −2.855e+04
Std Dev 0
2
1
0
−1
−2

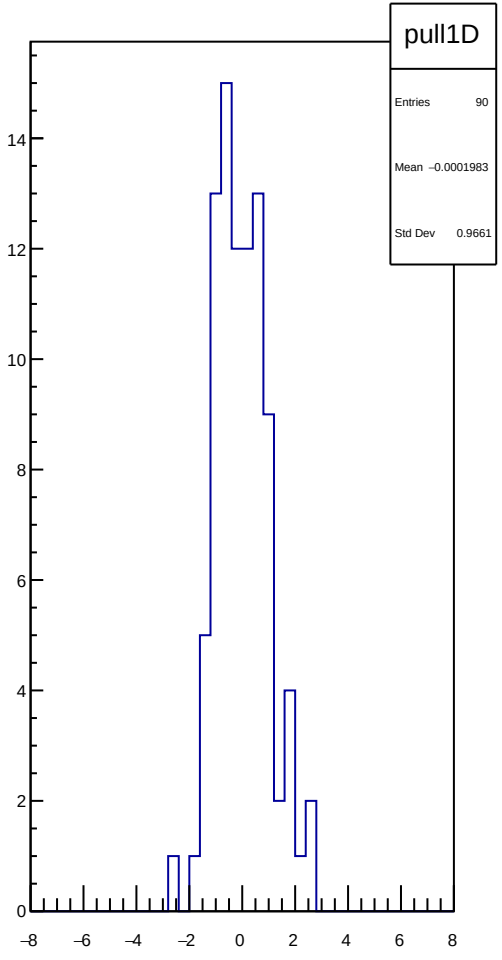

pull1D
Entries 90
Mean −0.0001981
Std Dev 0.9661
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

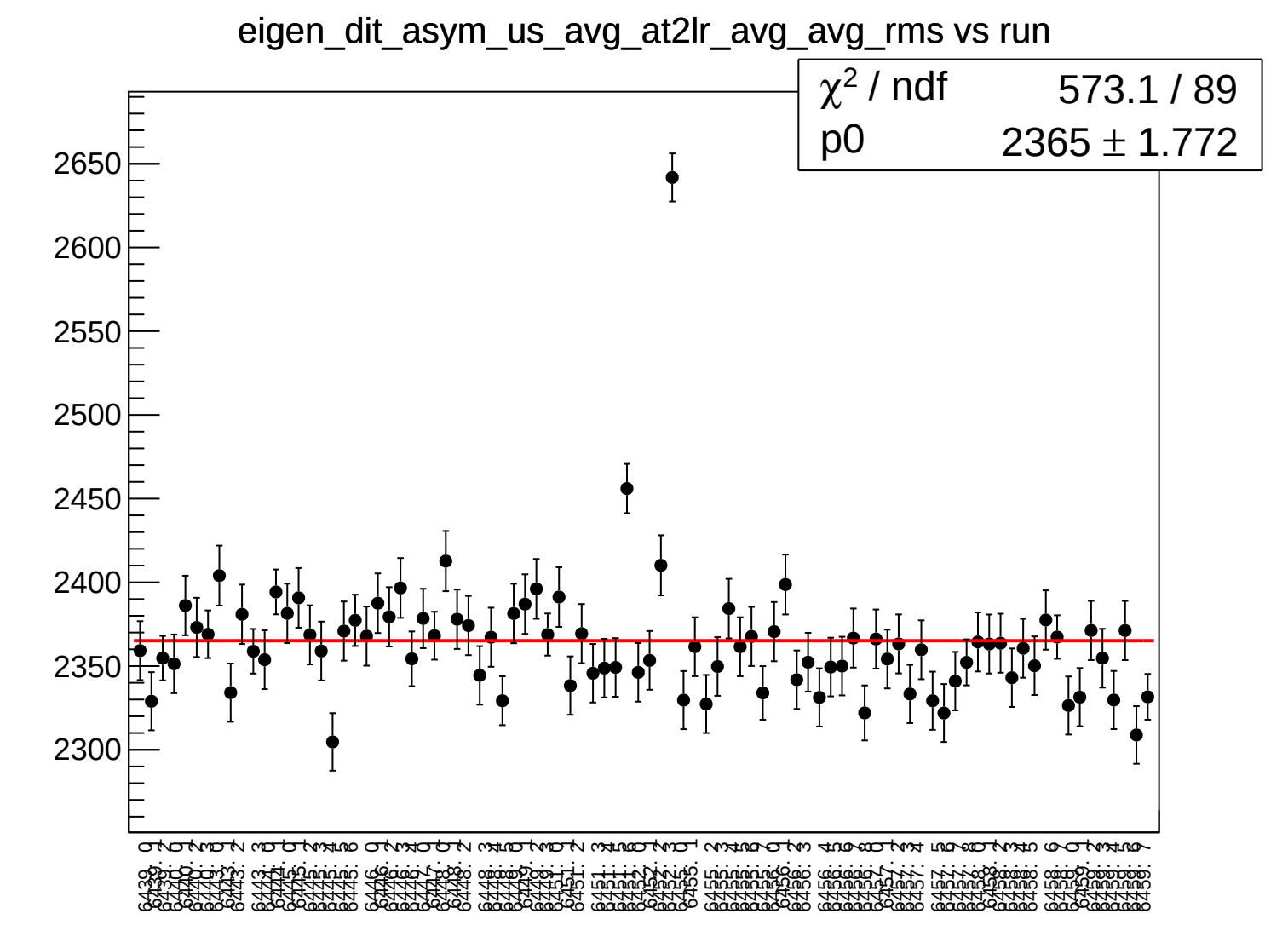

dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 573.1 / 89
p0 2365 ± 1.772
2650
2600
2550
2500
2450
2400
2350
2300

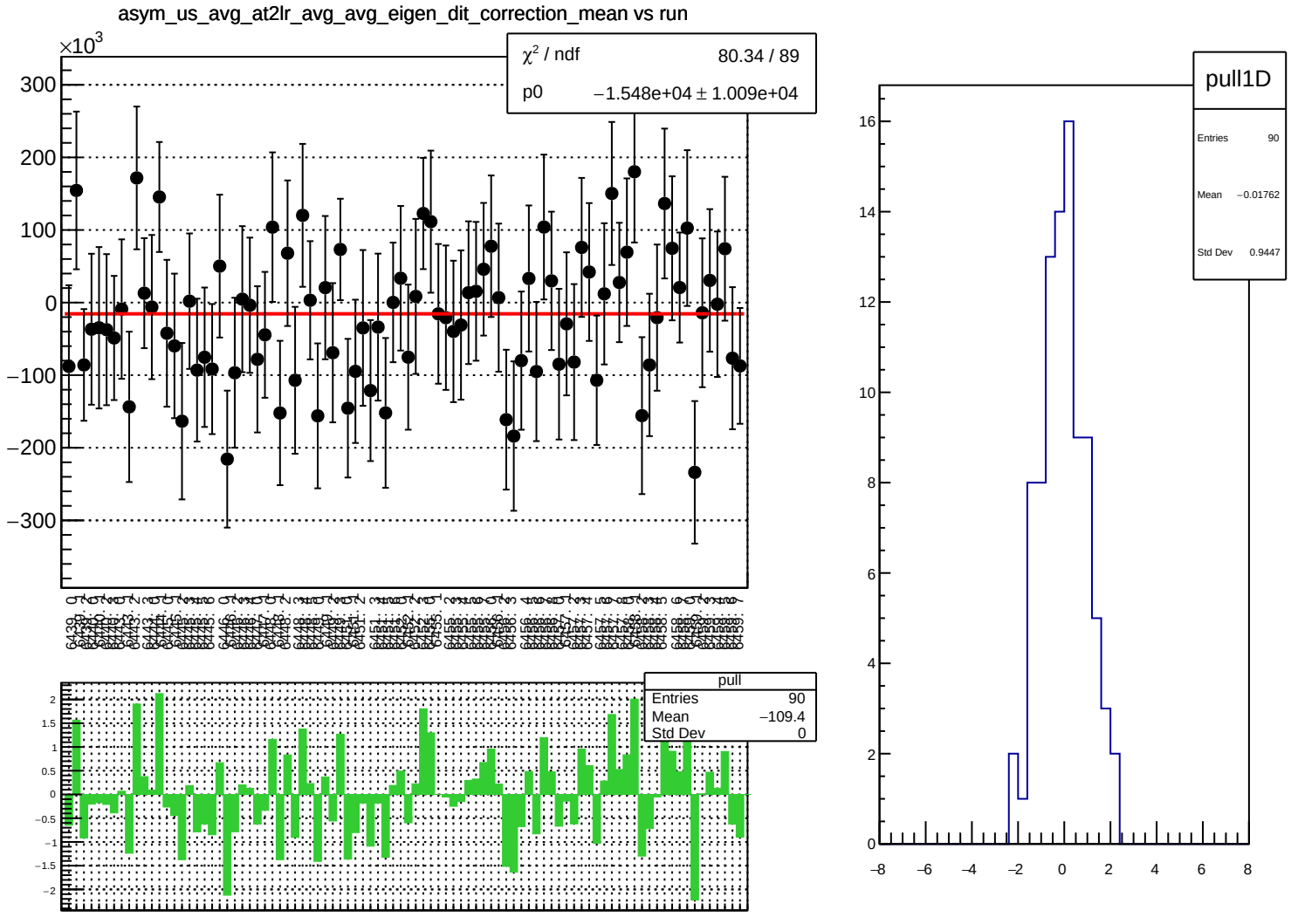

asym_us_avg_at2lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 80.34 / 89
p0 −1.548e+04 ± 1.009e+04
pull
Entries 90
Mean −109.4
Std Dev 0
pull1D
Entries 90
Mean −0.01762
Std Dev 0.9447

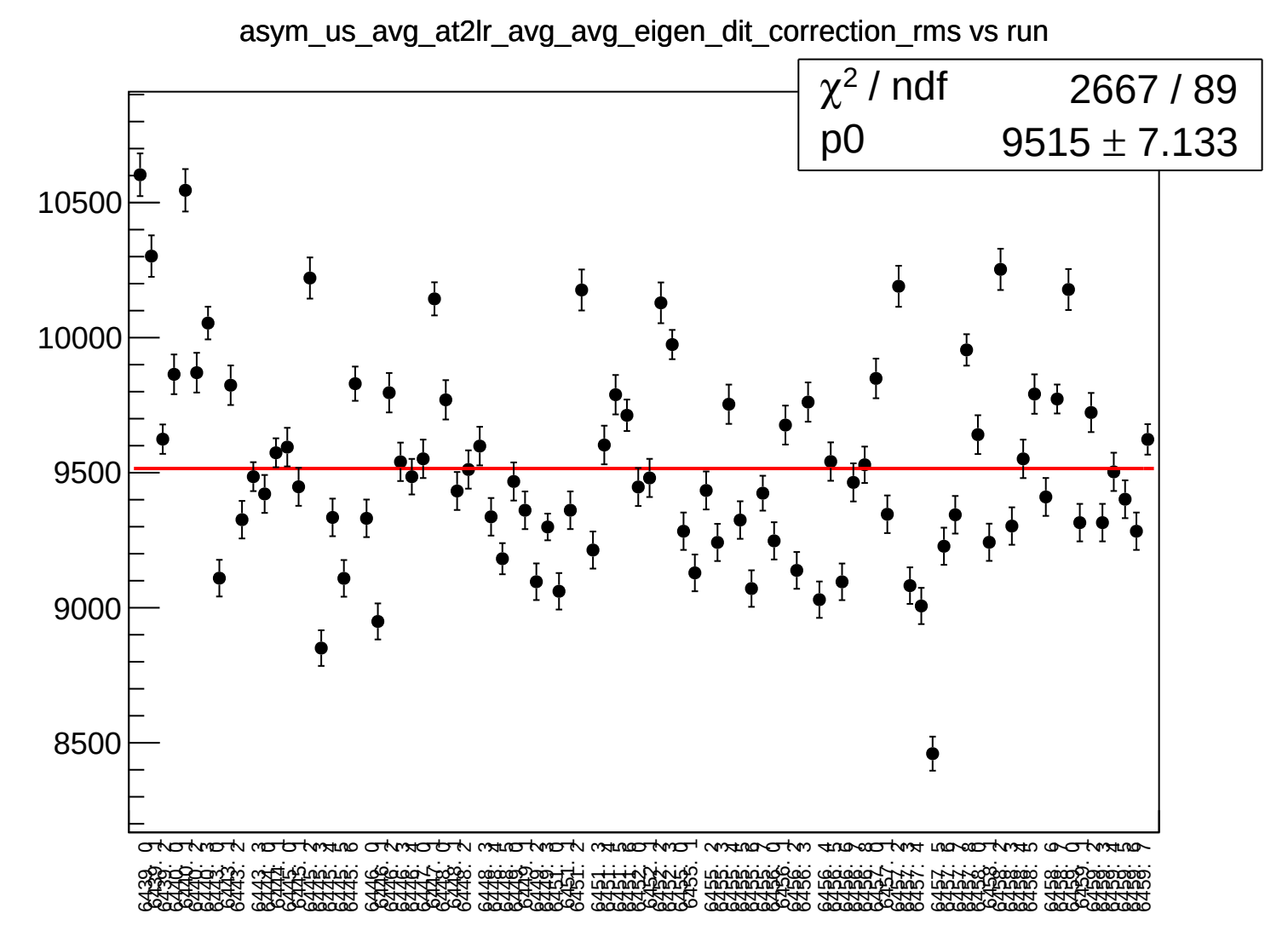

asym_us_avg_at2lr_avg_avg_dit_correction_rms vs run
χ² / ndf 2667 / 89
p0 9515 ± 7.133
10500
10000
9500
9000
8500

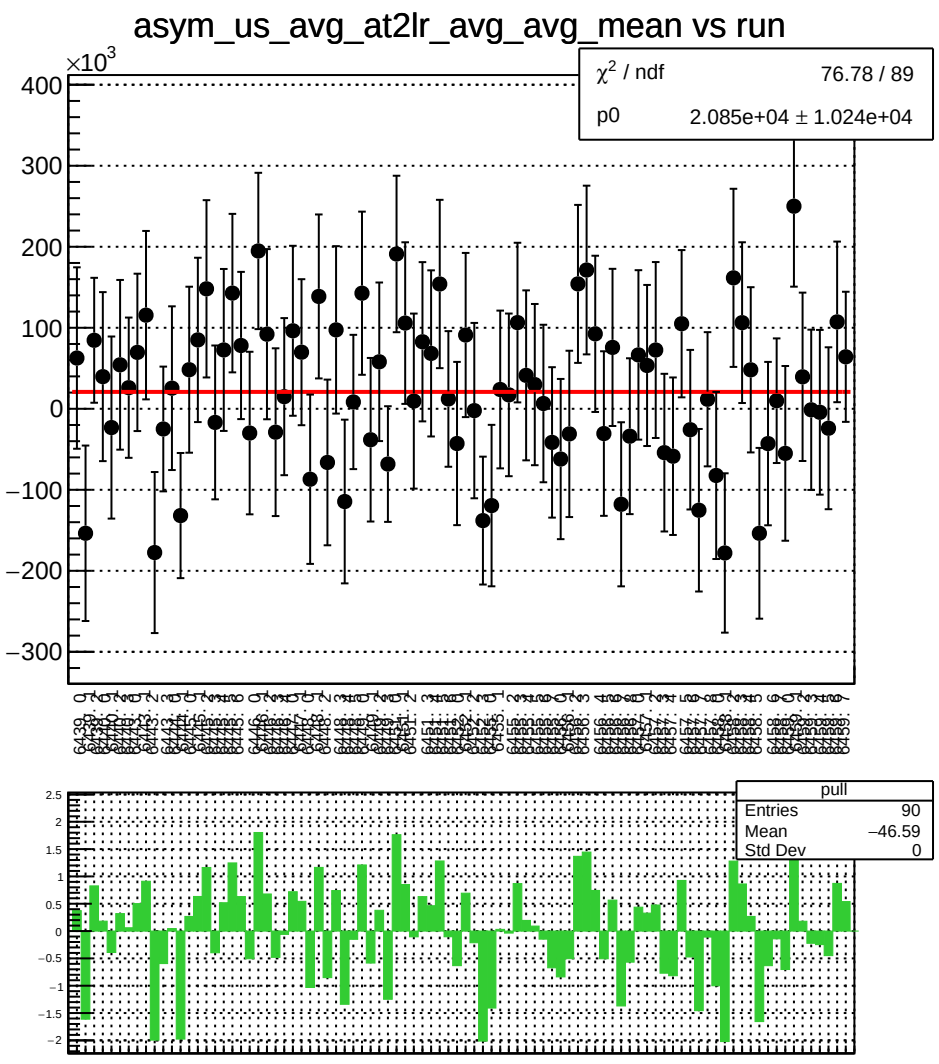

eigen_dit_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 84.01 / 89
p0 4882 ± 2506
100
50
0
−50
−100
pull
Entries 90
Mean −2.853e+04
Std Dev 0
2
1
0
−1
−2

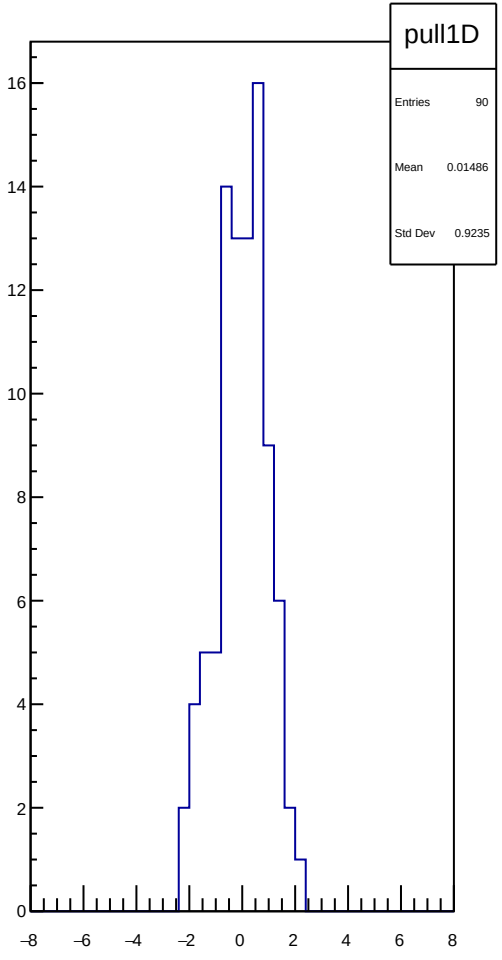

pull1D
Entries 90
Mean −0.0001983
Std Dev 0.9661
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

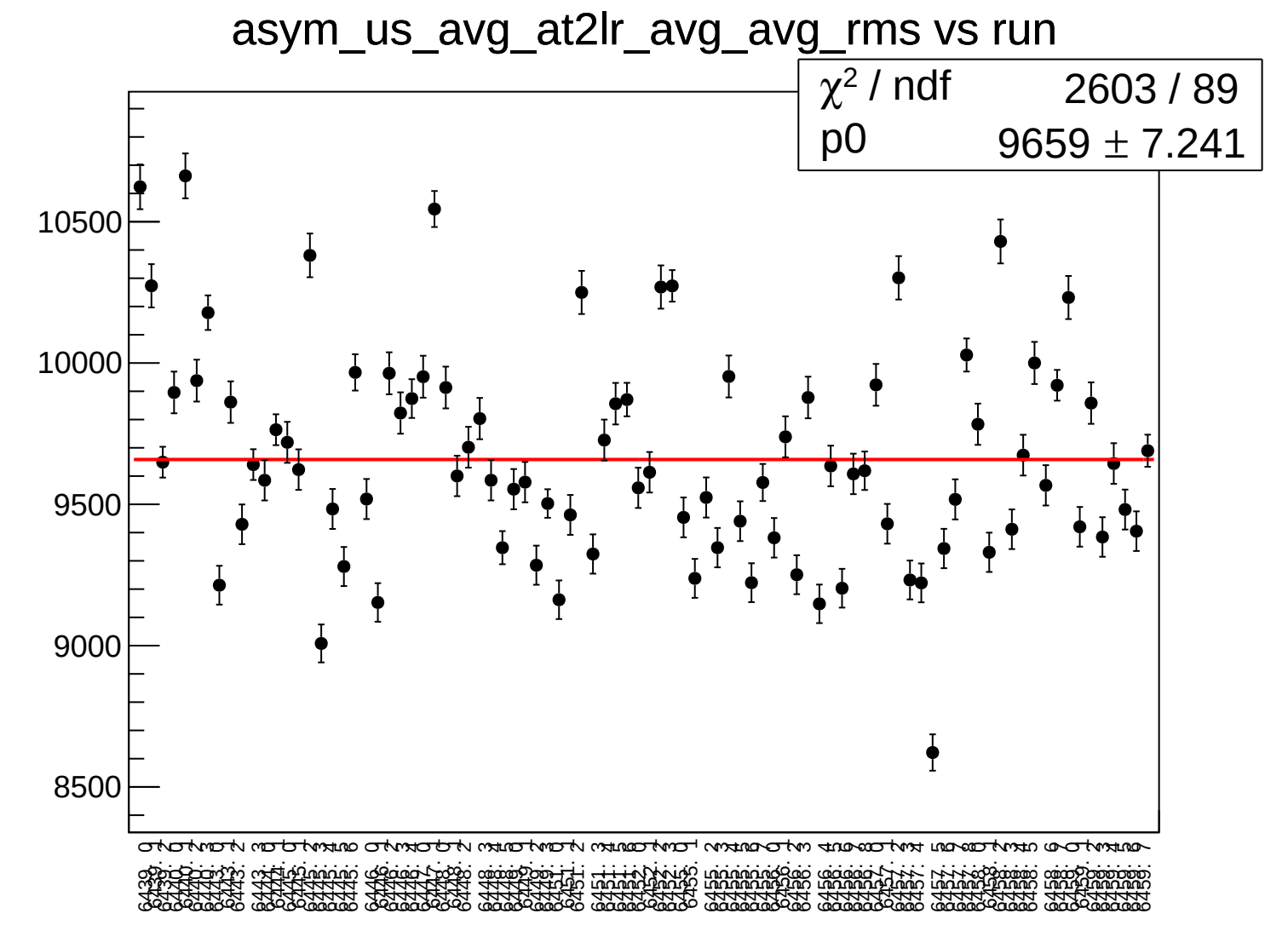

eigen_dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 573.1 / 89
p0 2365 ± 1.772
2650
2600
2550
2500
2450
2400
2350
2300

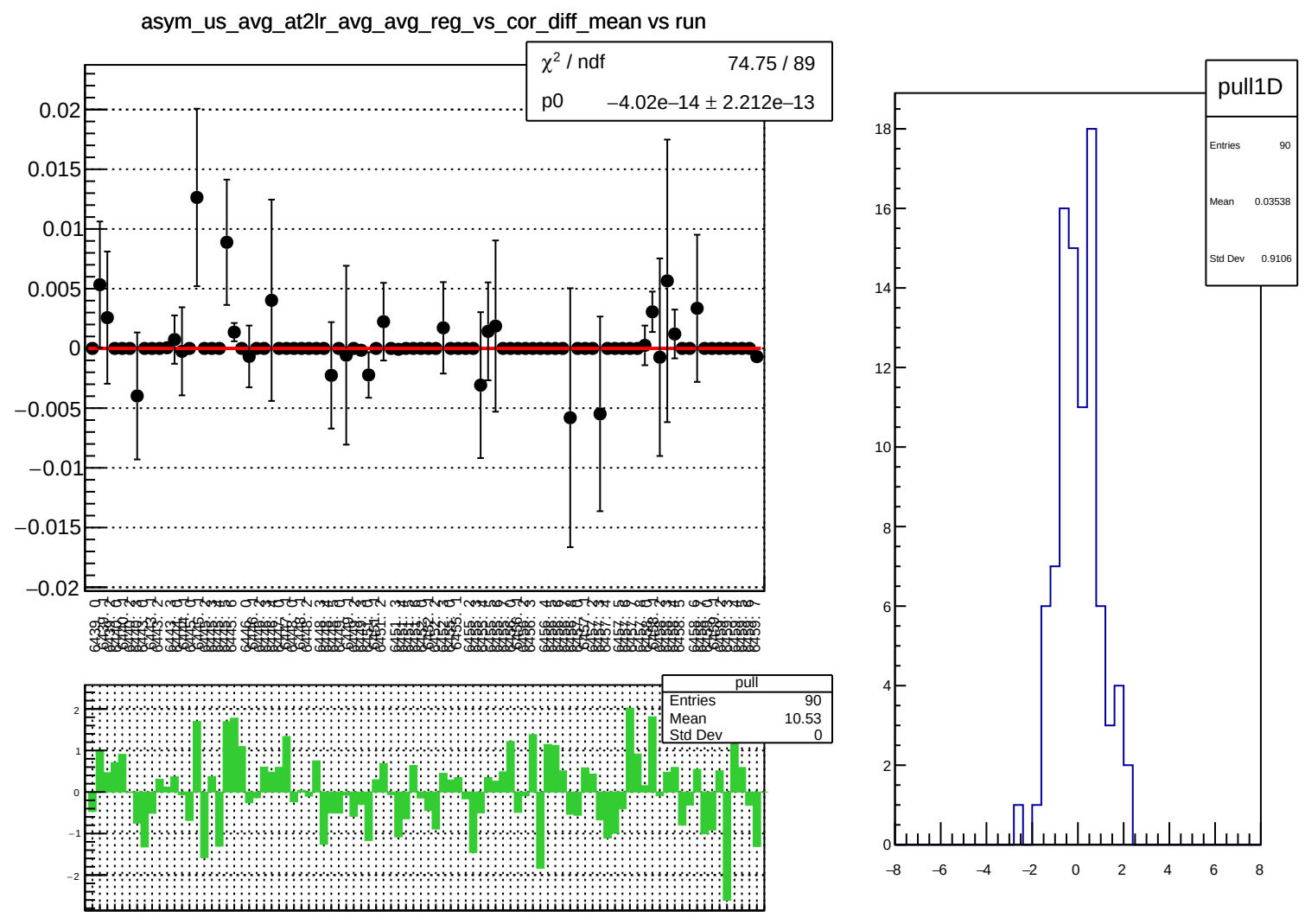

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 80.34 / 89
p0 −1.548e+04 ± 1.009e+04
pull
Entries 90
Mean −109.4
Std Dev 0
pull1D
Entries 90
Mean −0.01762
Std Dev 0.9447

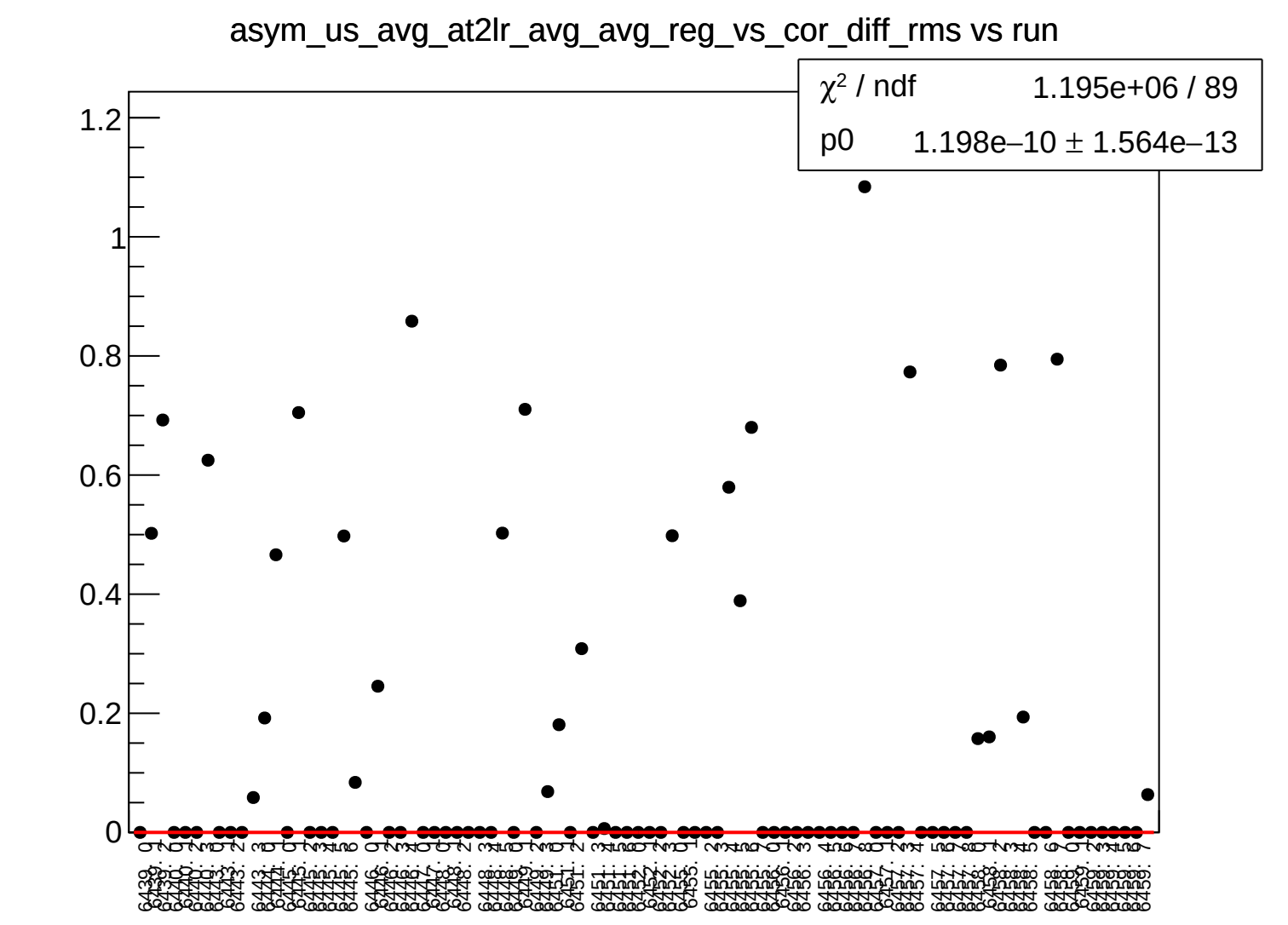

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 2667 / 89
p0 9515 ± 7.133
10500
10000
9500
9000
8500

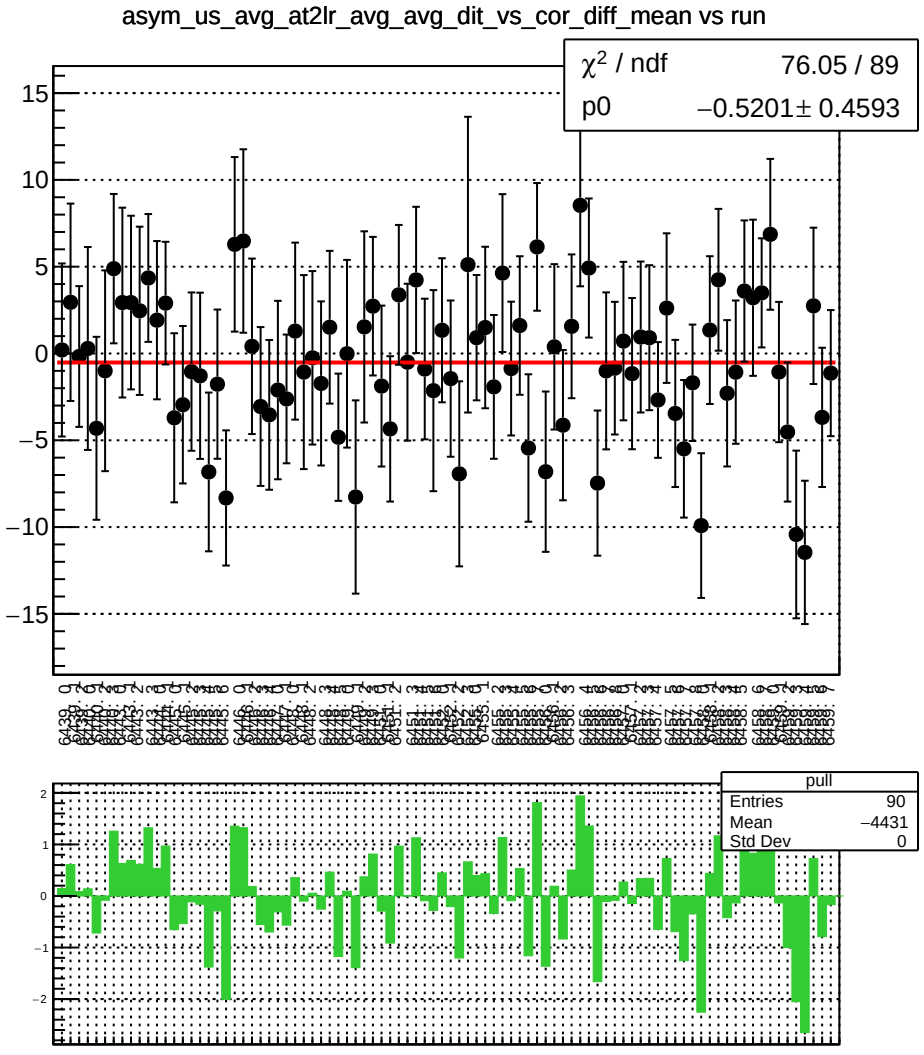

asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 76.78 / 89
p0 2.085e+04 ± 1.024e+04
pull
Entries 90
Mean −46.59
Std Dev 0

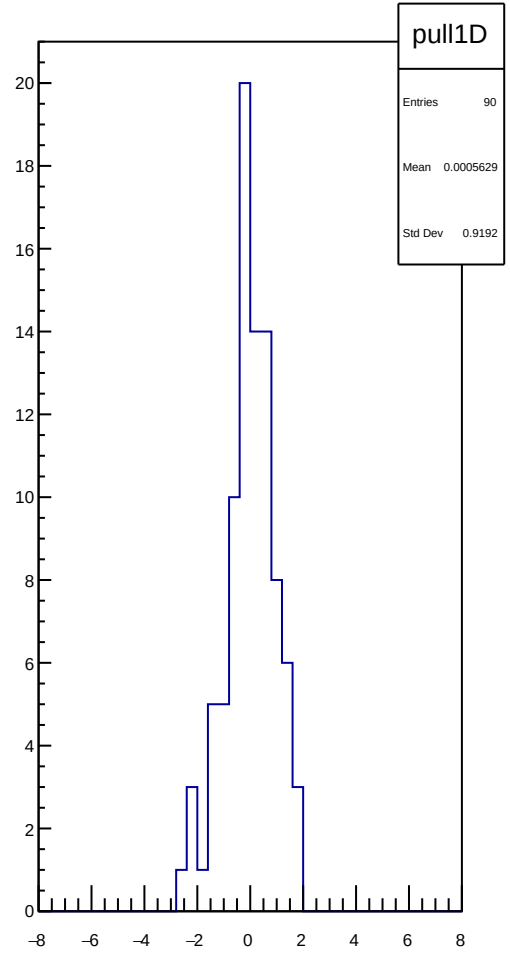

pull1D
Entries 90
Mean 0.01486
Std Dev 0.9235

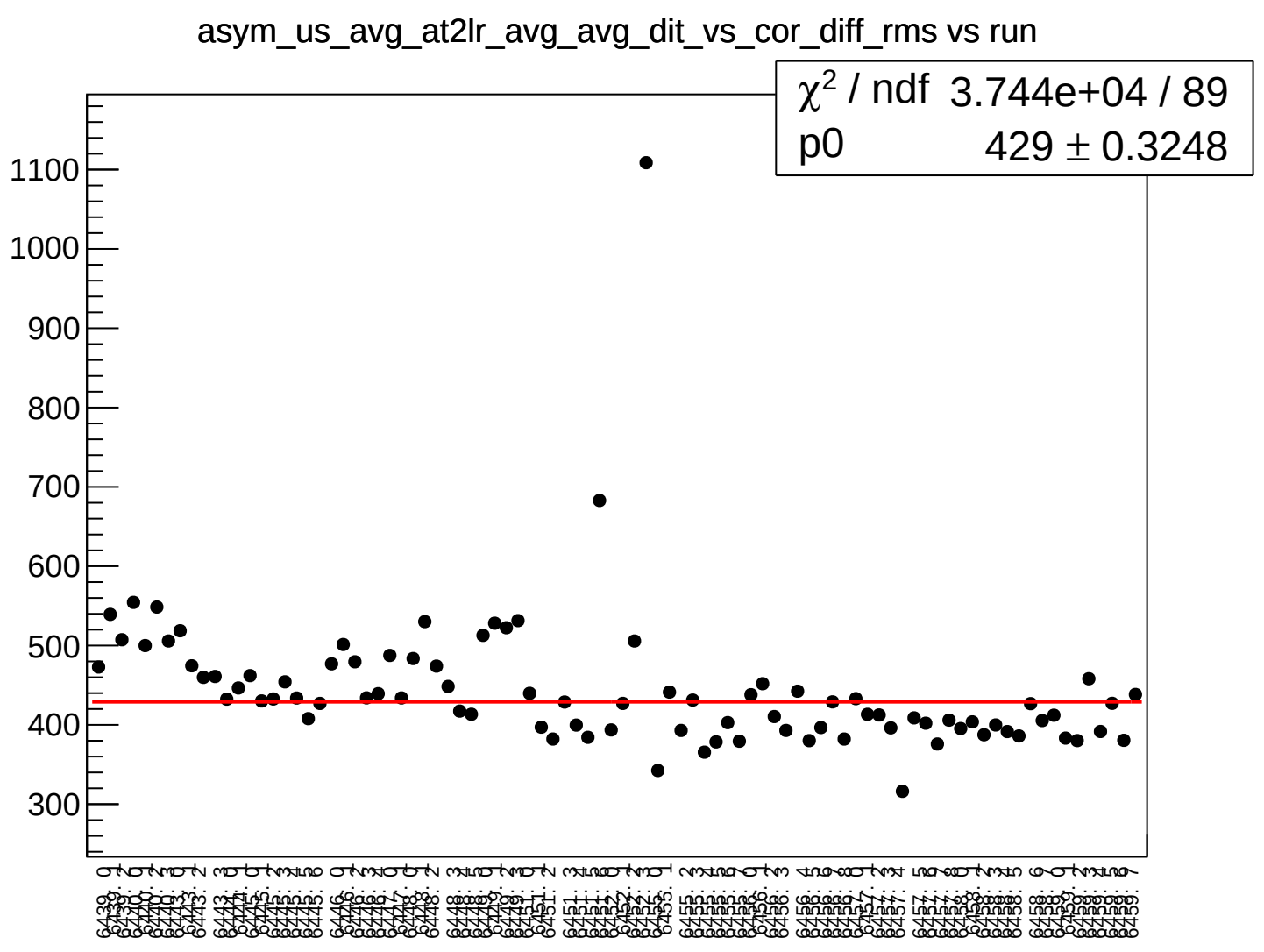

asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 2603 / 89
p0 9659 ± 7.241
10500
10000
9500
9000
8500

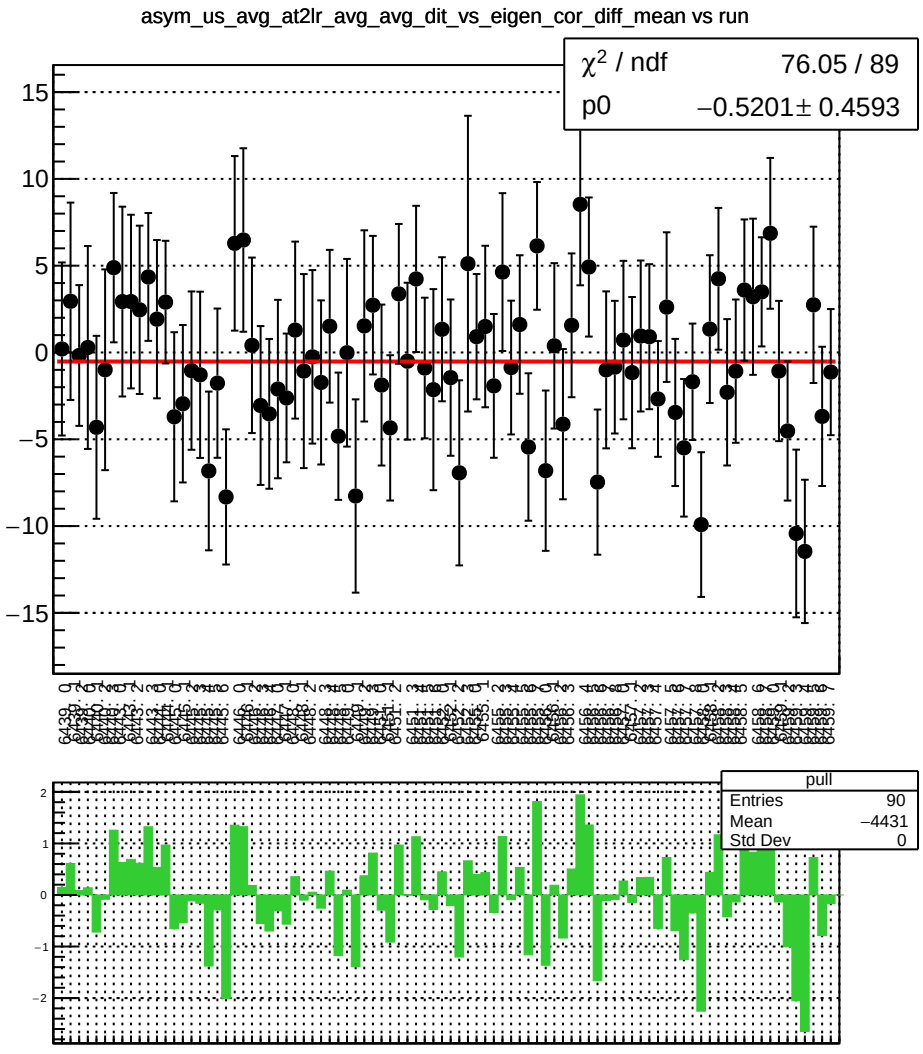

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 74.75 / 89
p0 −4.02e−14 ± 2.212e−13
pull
Entries 90
Mean 10.53
Std Dev 0
pull1D
Entries 90
Mean 0.03538
Std Dev 0.9106

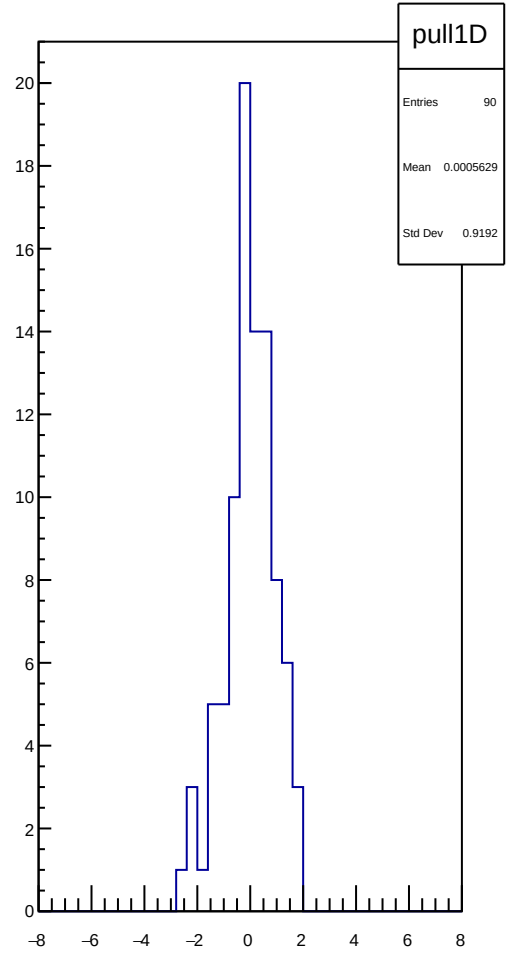

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.195e+06 / 89
p0 1.198e−10 ± 1.564e−13
1.2
1
0.8
0.6
0.4
0.2
0

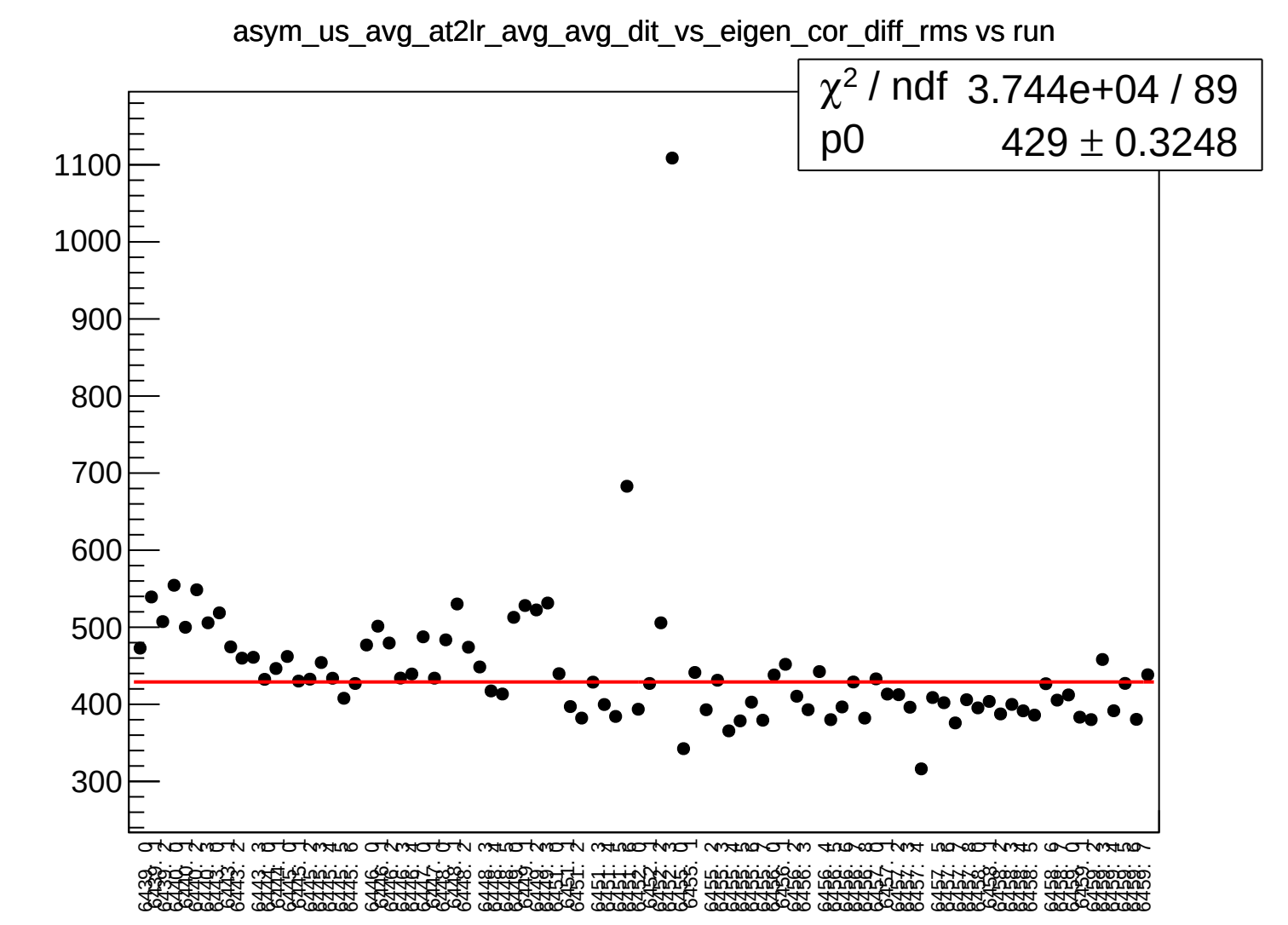

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 76.05 / 89
p0 −0.5201± 0.4593
pull
Entries 90
Mean −4431
Std Dev 0

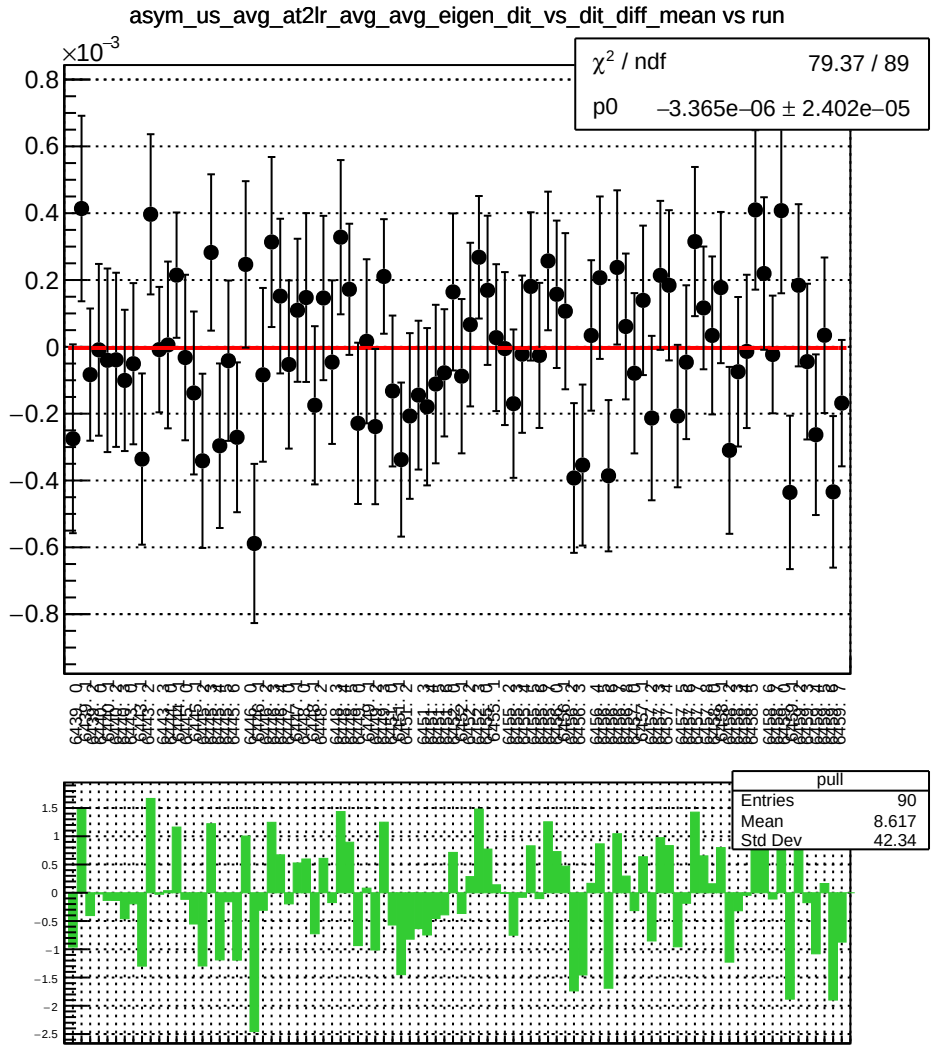

pull1D
Entries 90
Mean 0.0005629
Std Dev 0.9192

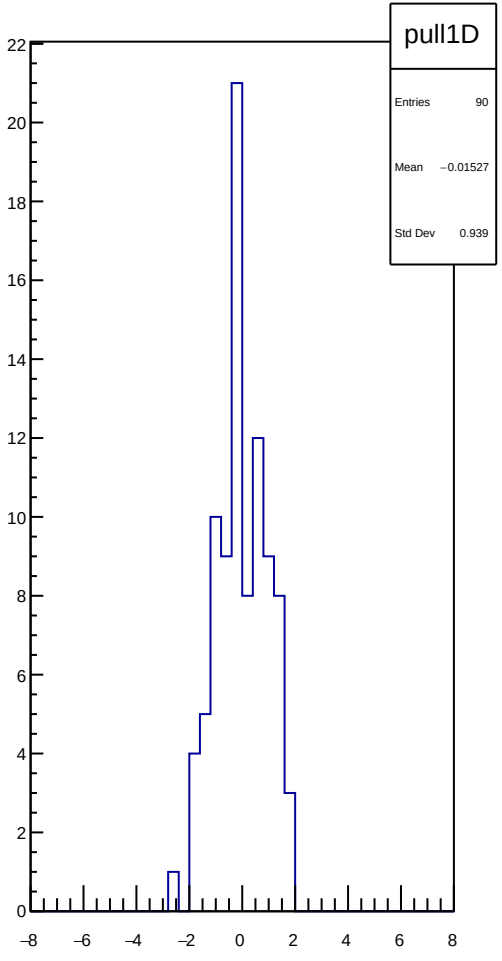

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.744e+04 / 89
p0 429 ± 0.3248
1100
1000
900
800
700
600
500
400
300

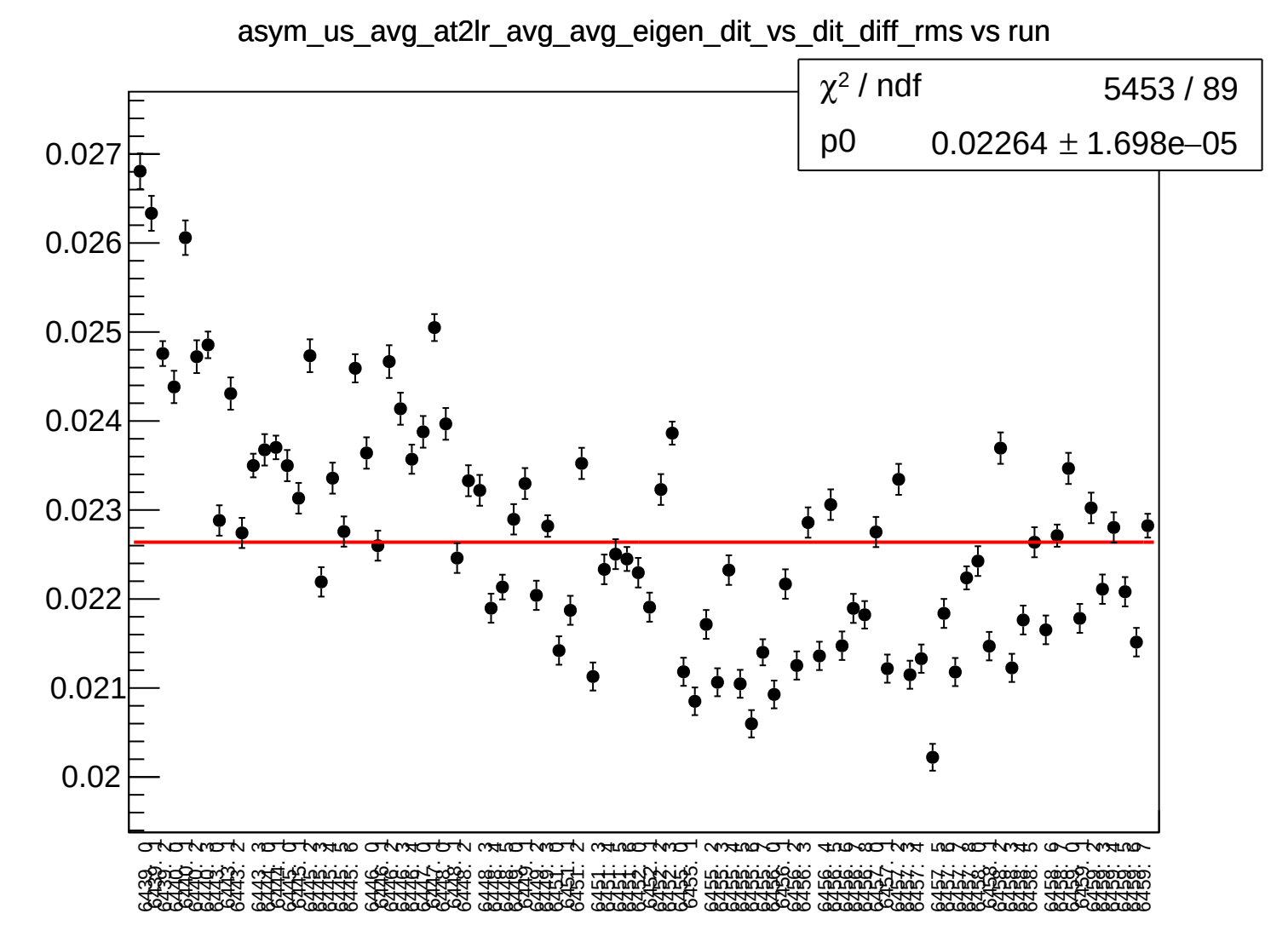

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.05 / 89
p0 −0.5201± 0.4593
pull
Entries 90
Mean −4431
Std Dev 0

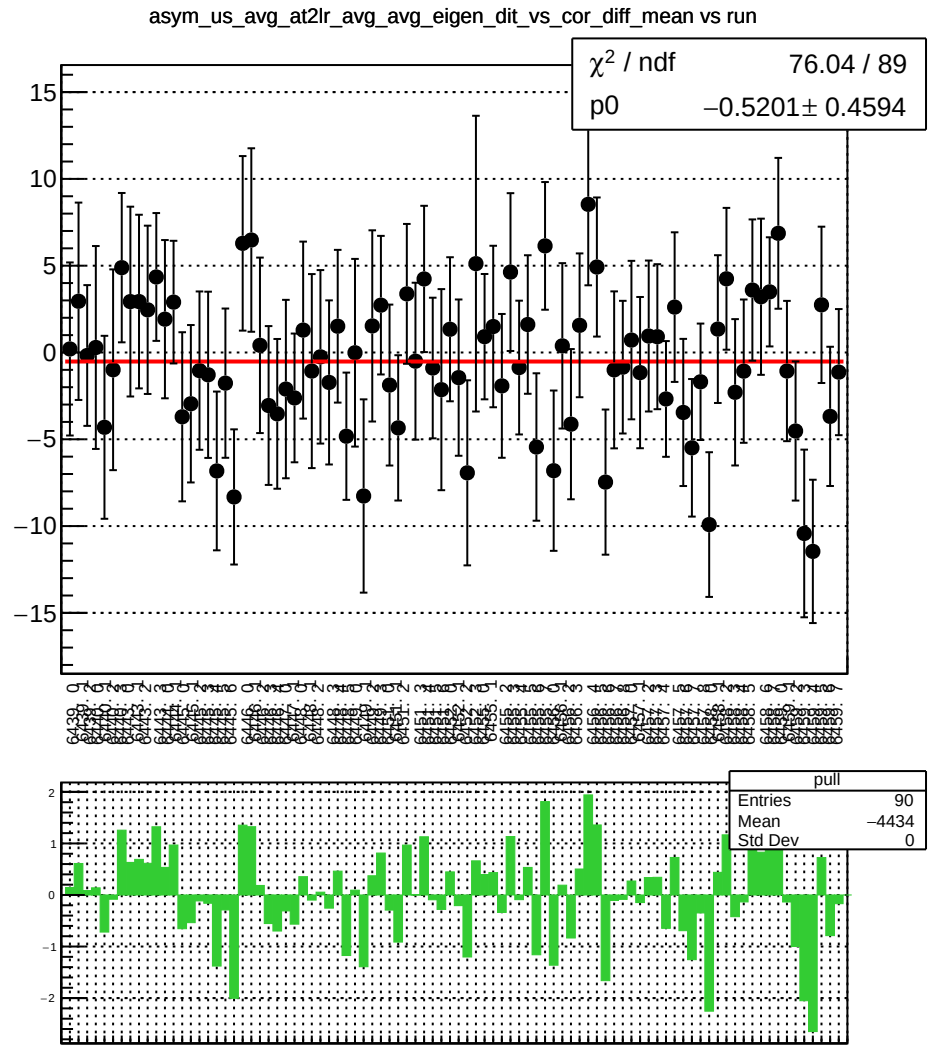

pull1D
Entries 90
Mean 0.0005629
Std Dev 0.9192

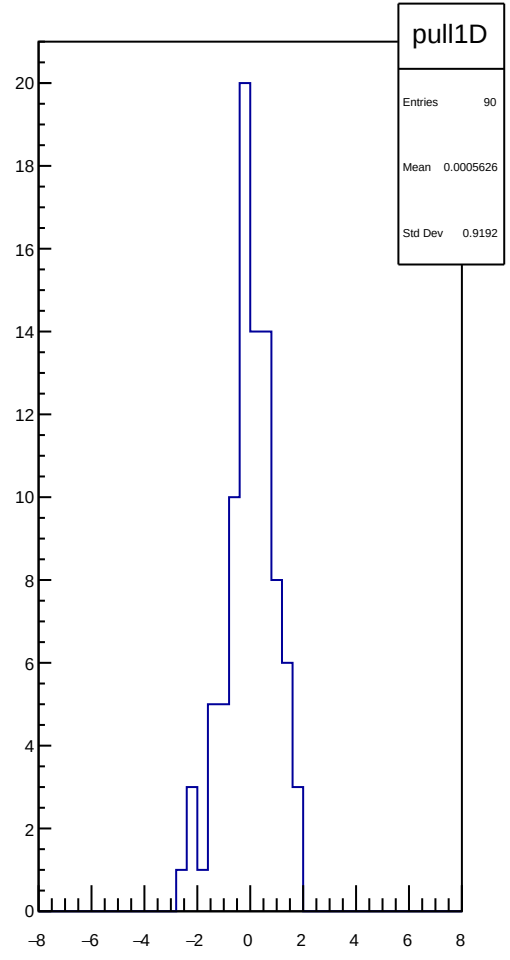

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.744e+04 / 89
p0 429 ± 0.3248
1100
1000
900
800
700
600
500
400
300

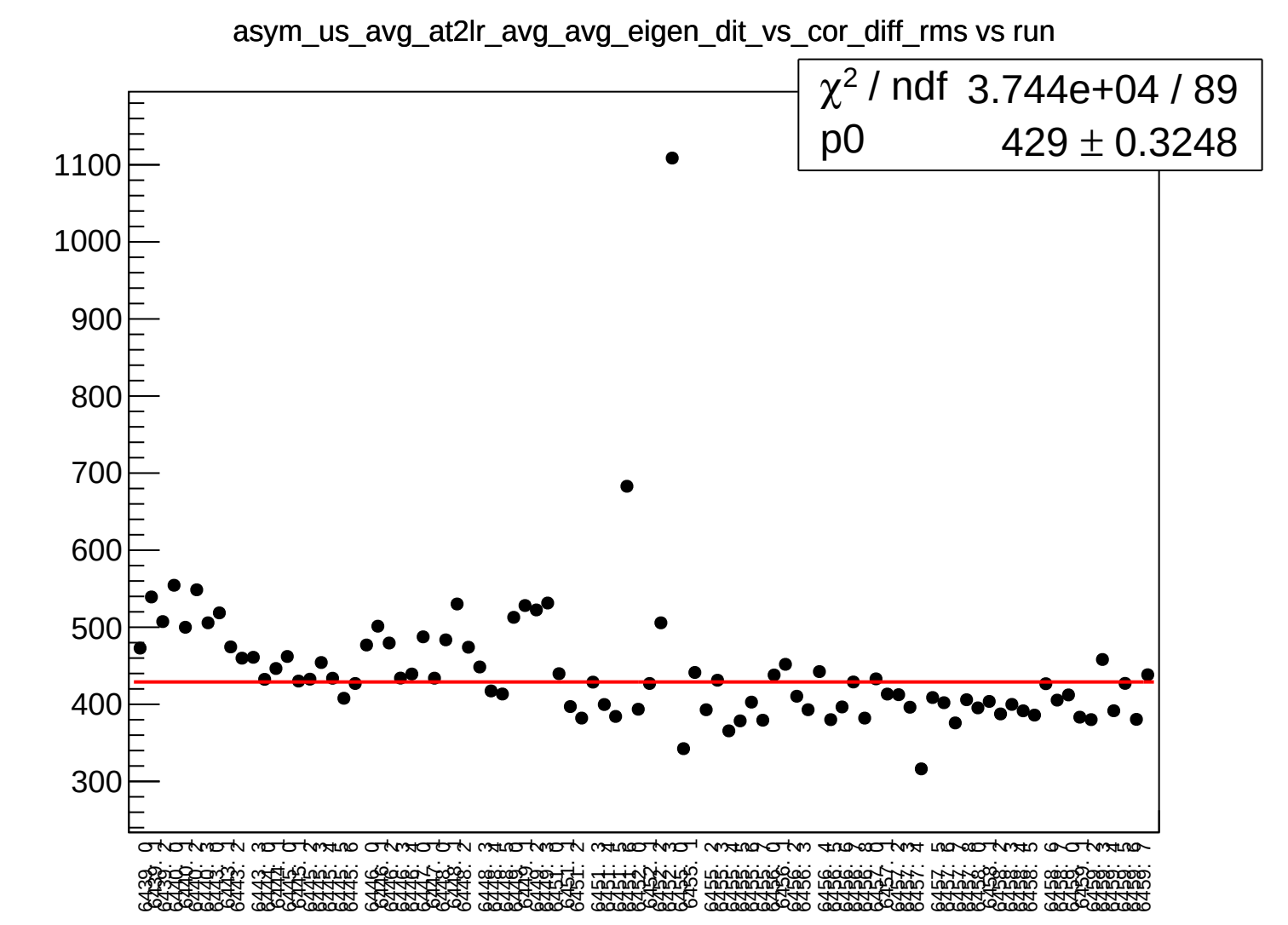

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 79.37 / 89
p0 −3.365e−06 ± 2.402e−05
pull
Entries 90
Mean 8.617
Std Dev 42.34

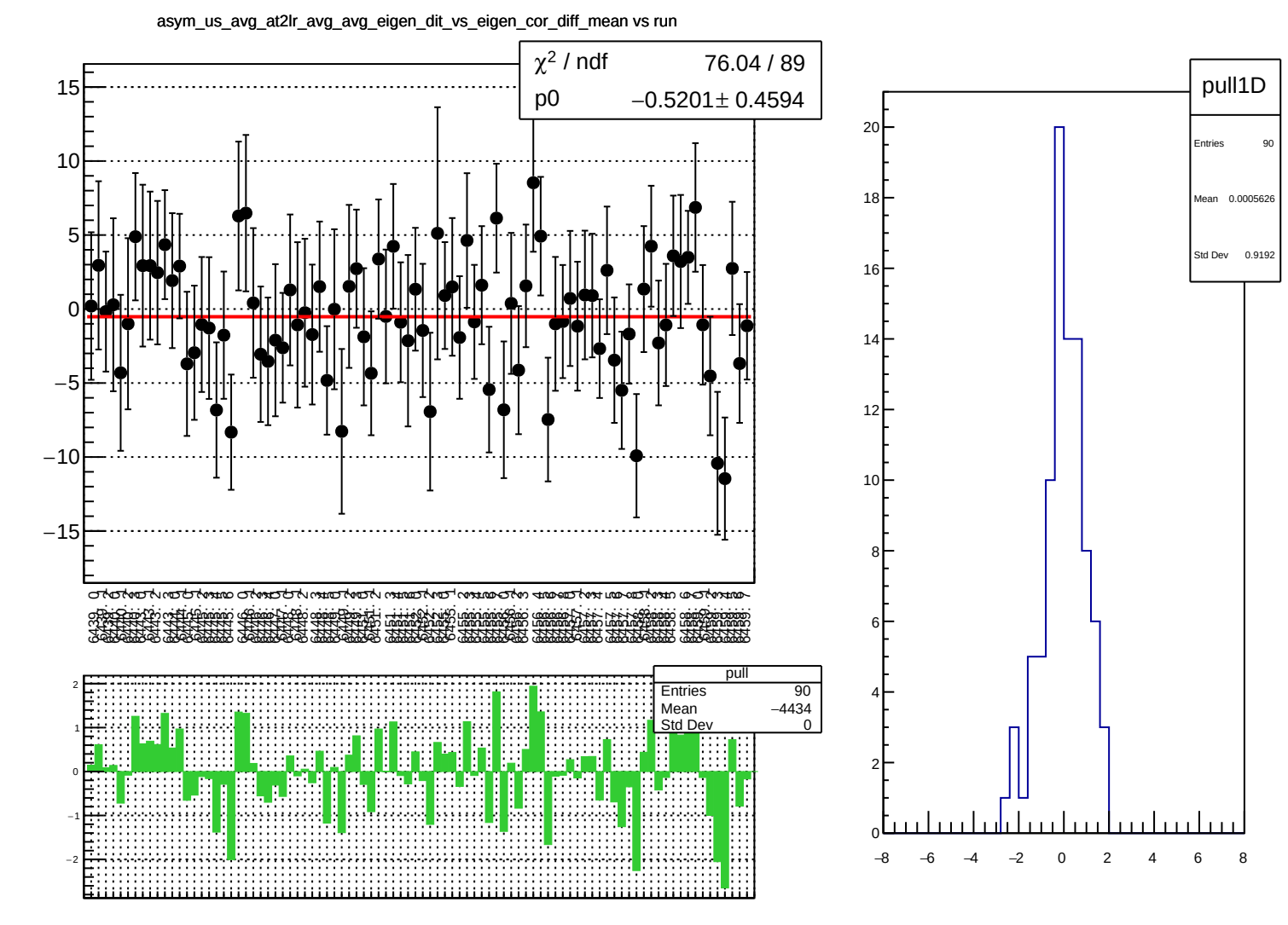

pull1D
Entries 90
Mean −0.01527
Std Dev 0.939

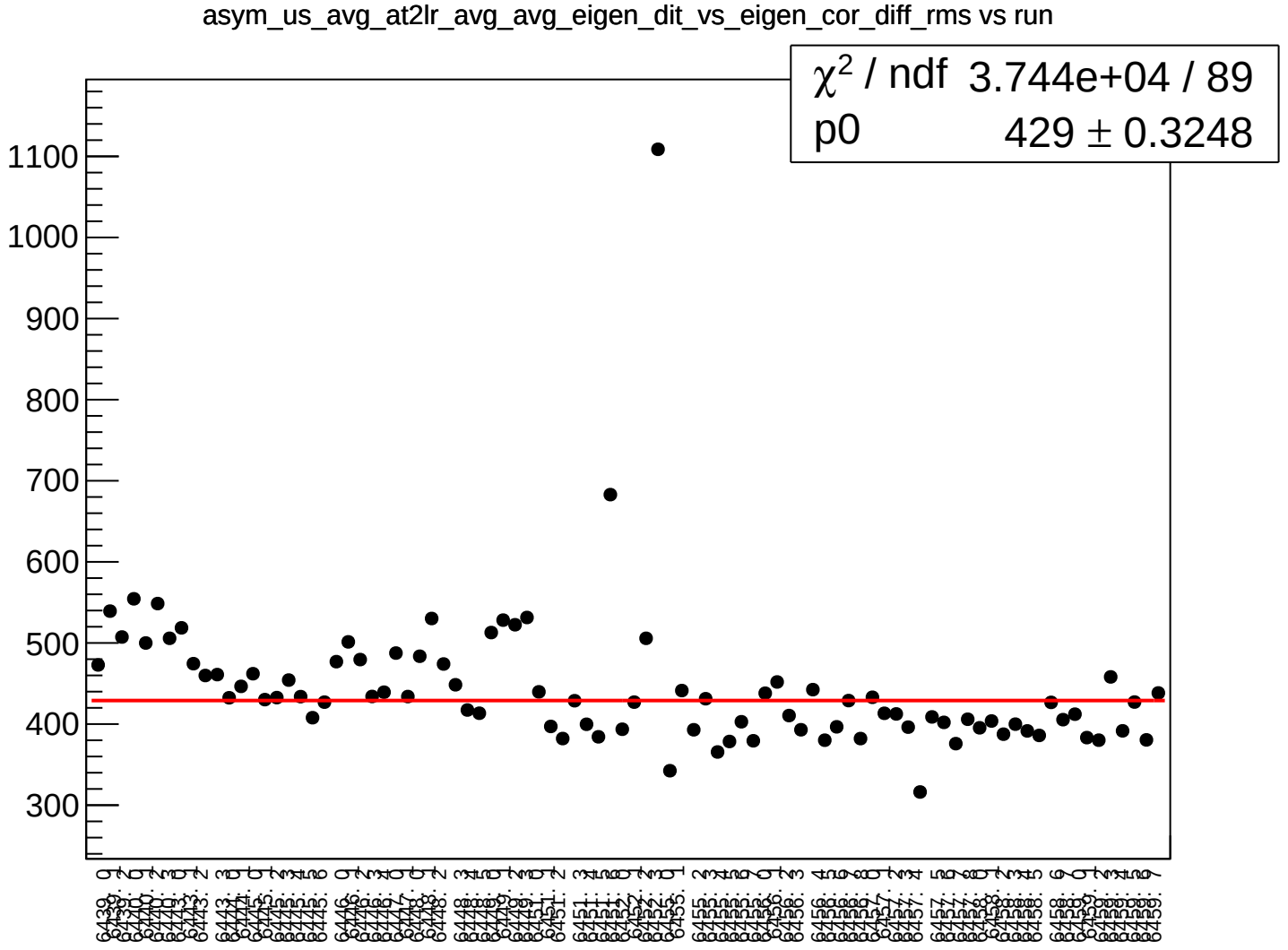

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5453 / 89
p0 0.02264 ± 1.698e−05
0.027
0.026
0.025
0.024
0.023
0.022
0.021
0.02

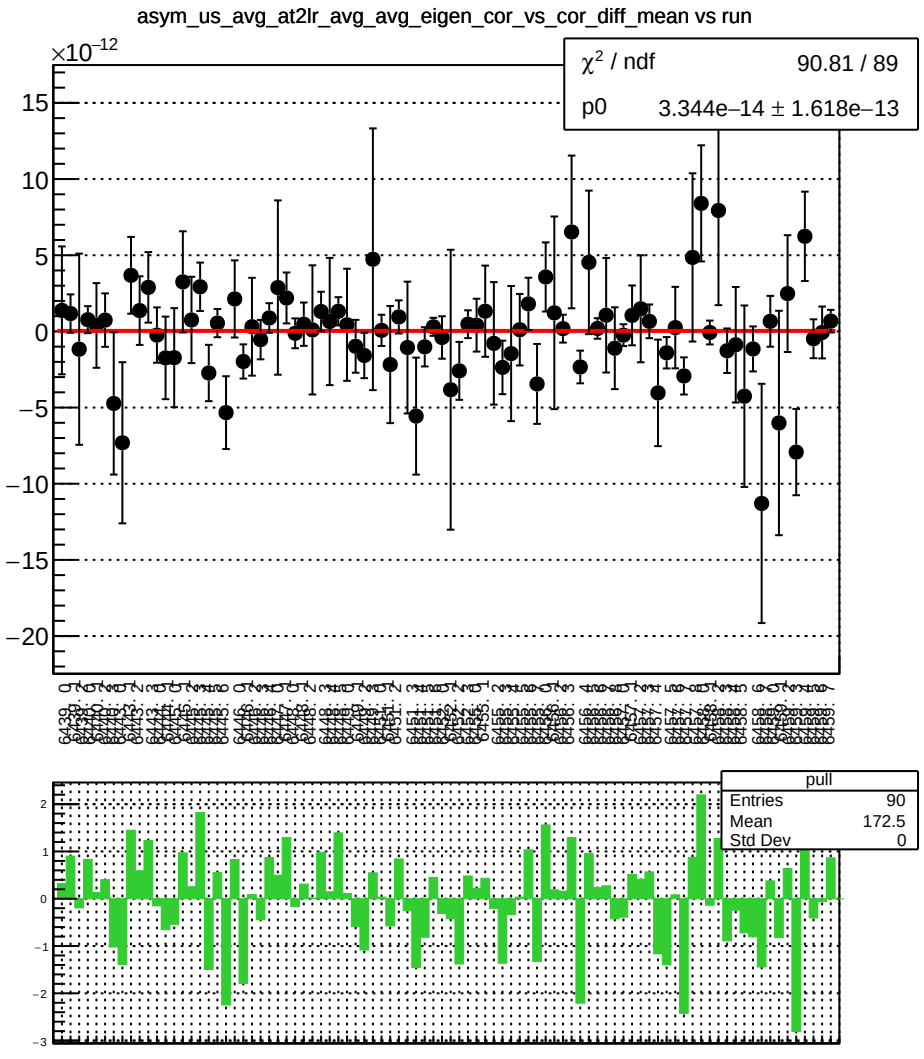

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.04 / 89
p0 −0.5201± 0.4594
pull
Entries 90
Mean −4434
Std Dev 0

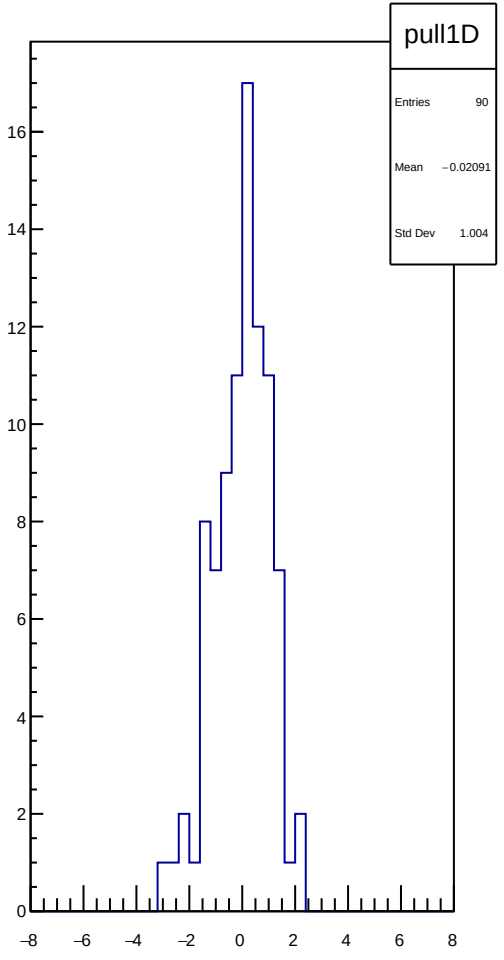

pull1D
Entries 90
Mean 0.0005626
Std Dev 0.9192

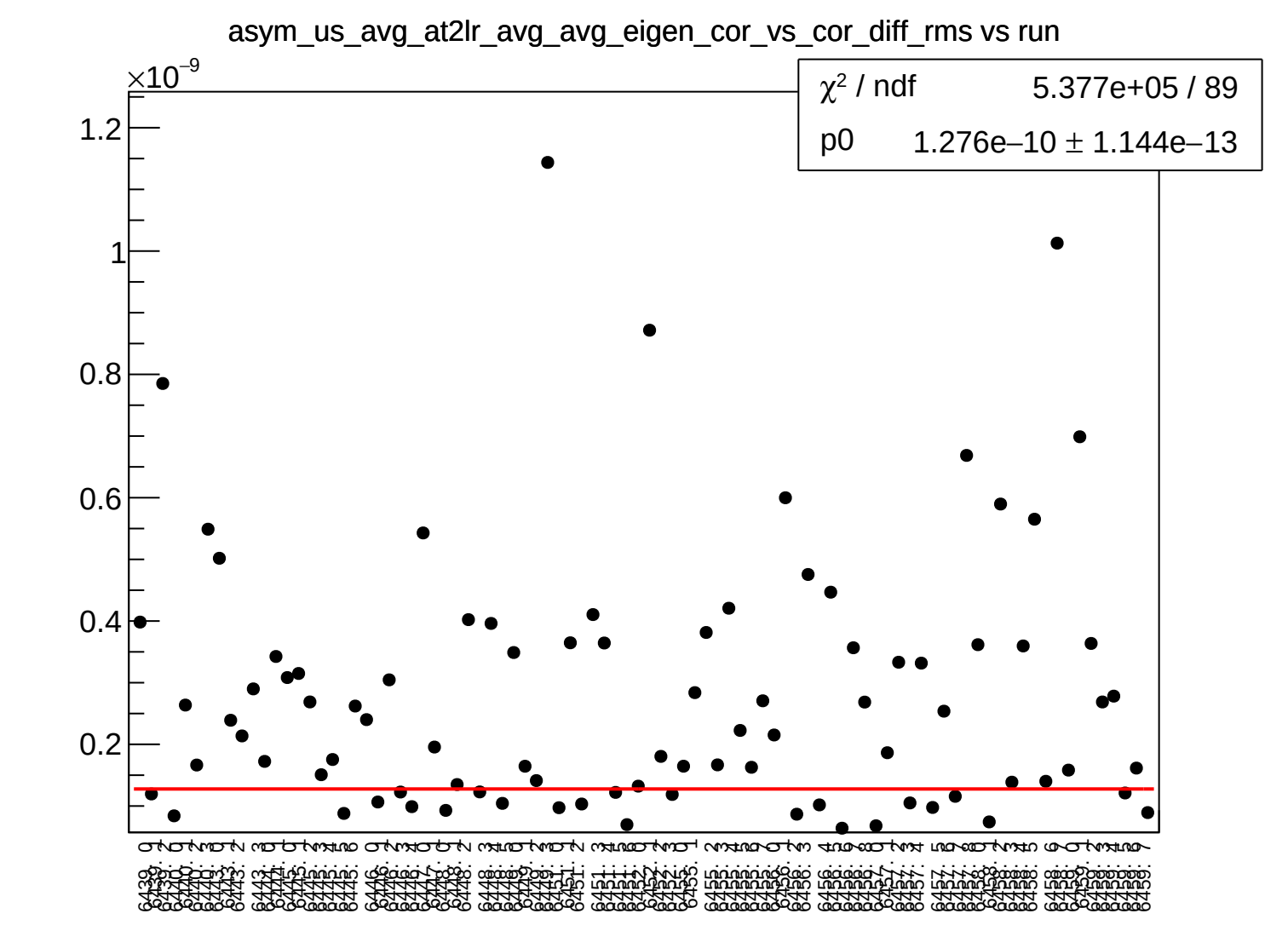

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.744e+04 / 89
p0 429 ± 0.3248
1100
1000
900
800
700
600
500
400
300

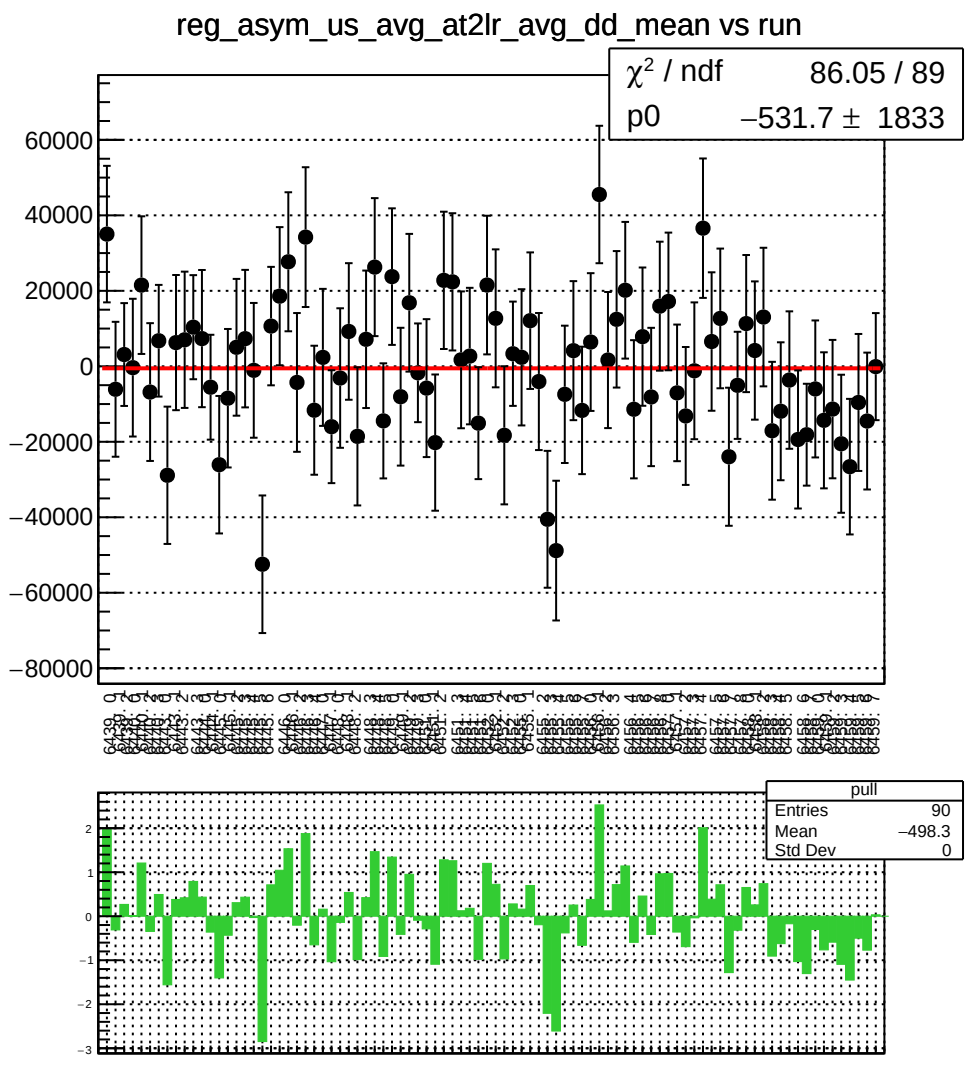

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.04 / 89
p0 −0.5201± 0.4594
pull
Entries 90
Mean −4434
Std Dev 0
pull1D
Entries 90
Mean 0.0005626
Std Dev 0.9192

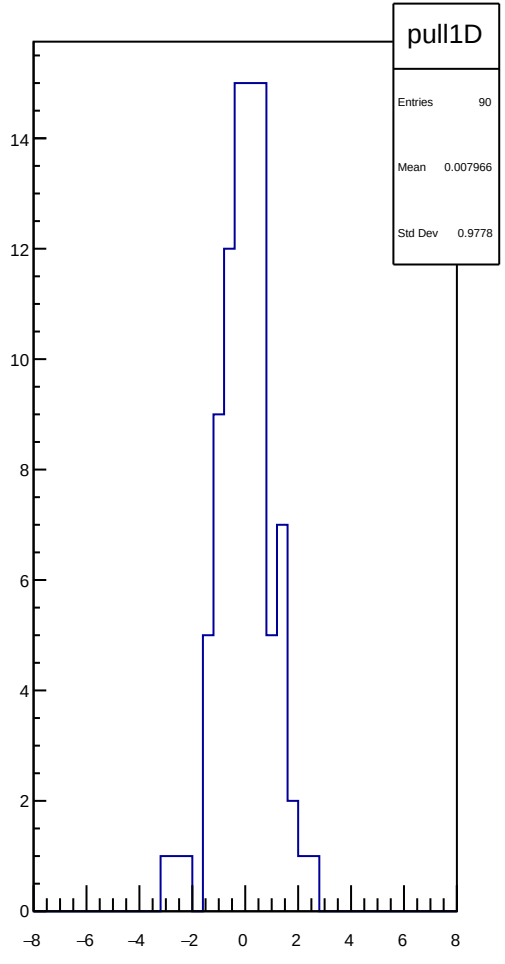

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.744e+04 / 89
p0 429 ± 0.3248
1100
1000
900
800
700
600
500
400
300

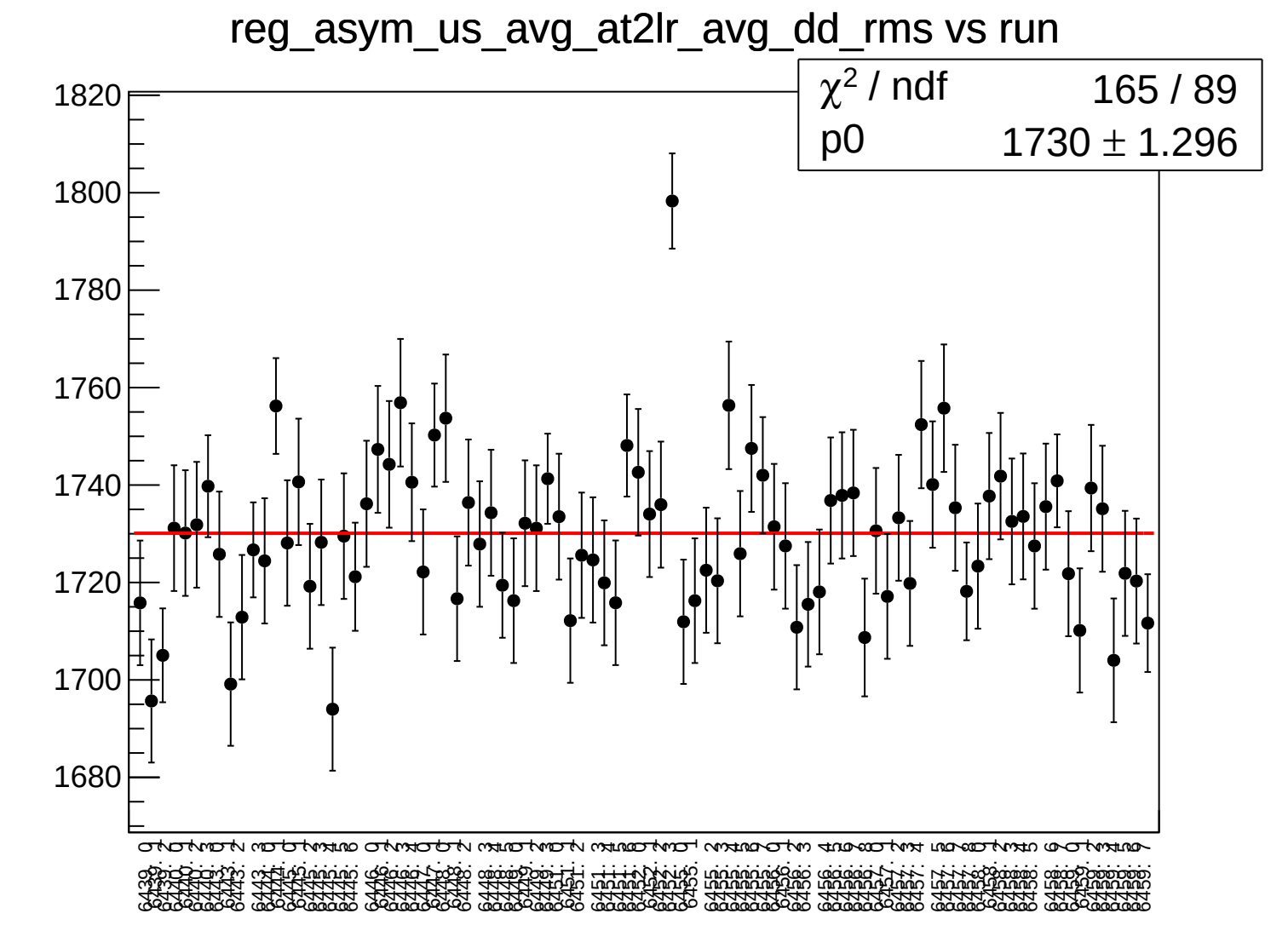

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.81 / 89
p0 3.344e−14 ± 1.618e−13
pull
Entries 90
Mean 172.5
Std Dev 0

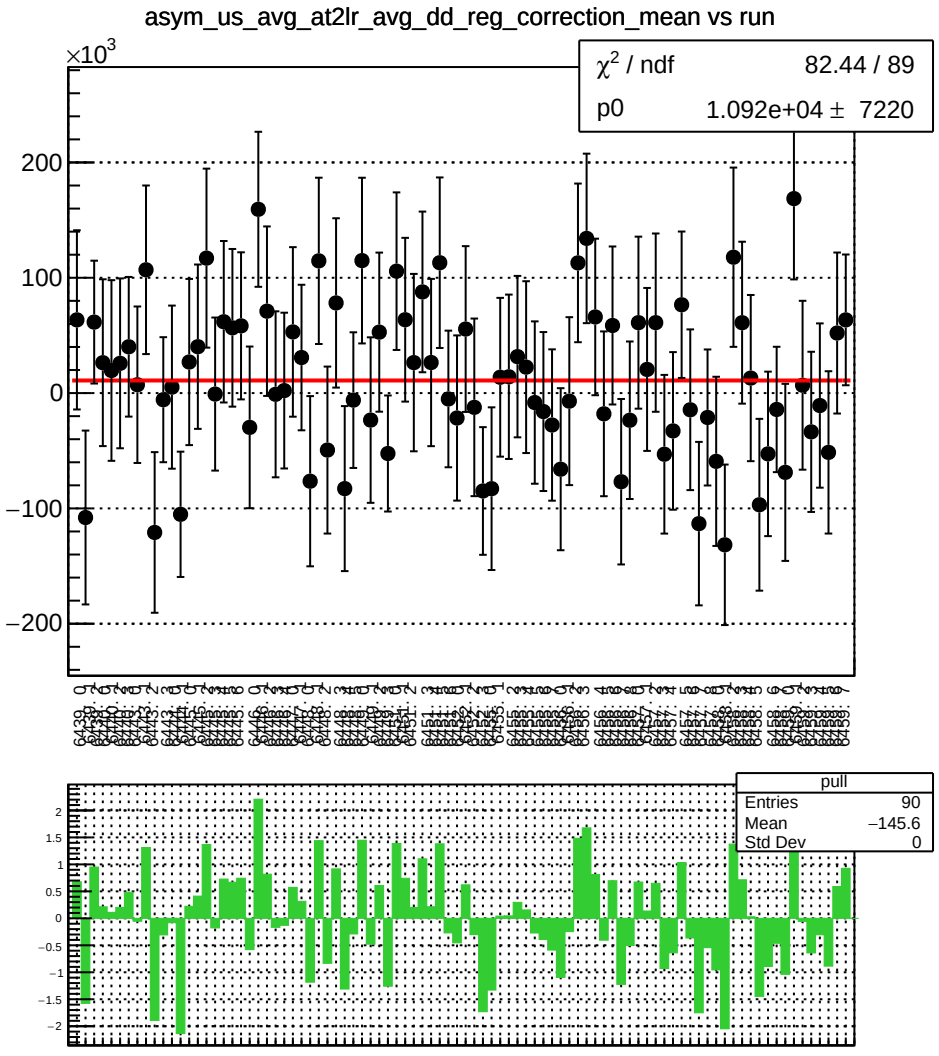

pull1D
Entries 90
Mean −0.02091
Std Dev 1.004

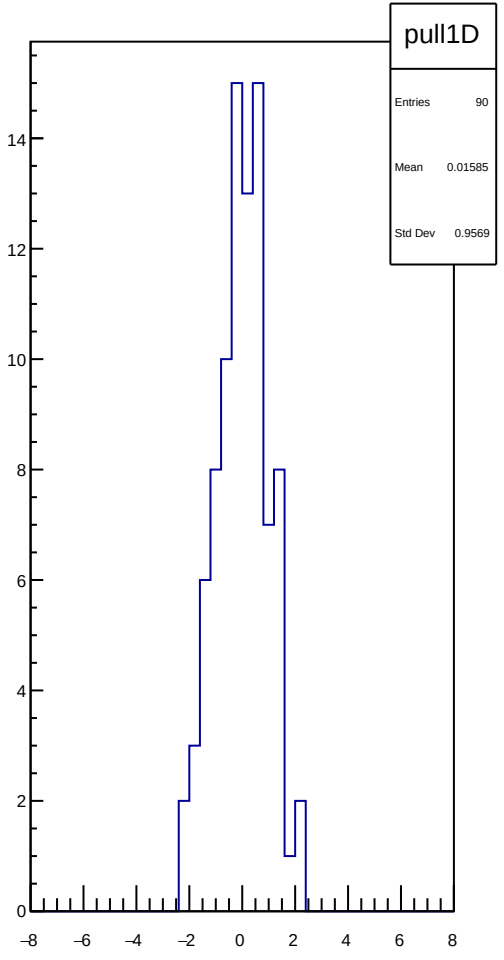

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.377e+05 / 89
p0 1.276e−10 ± 1.144e−13
1.2
1
0.8
0.6
0.4
0.2

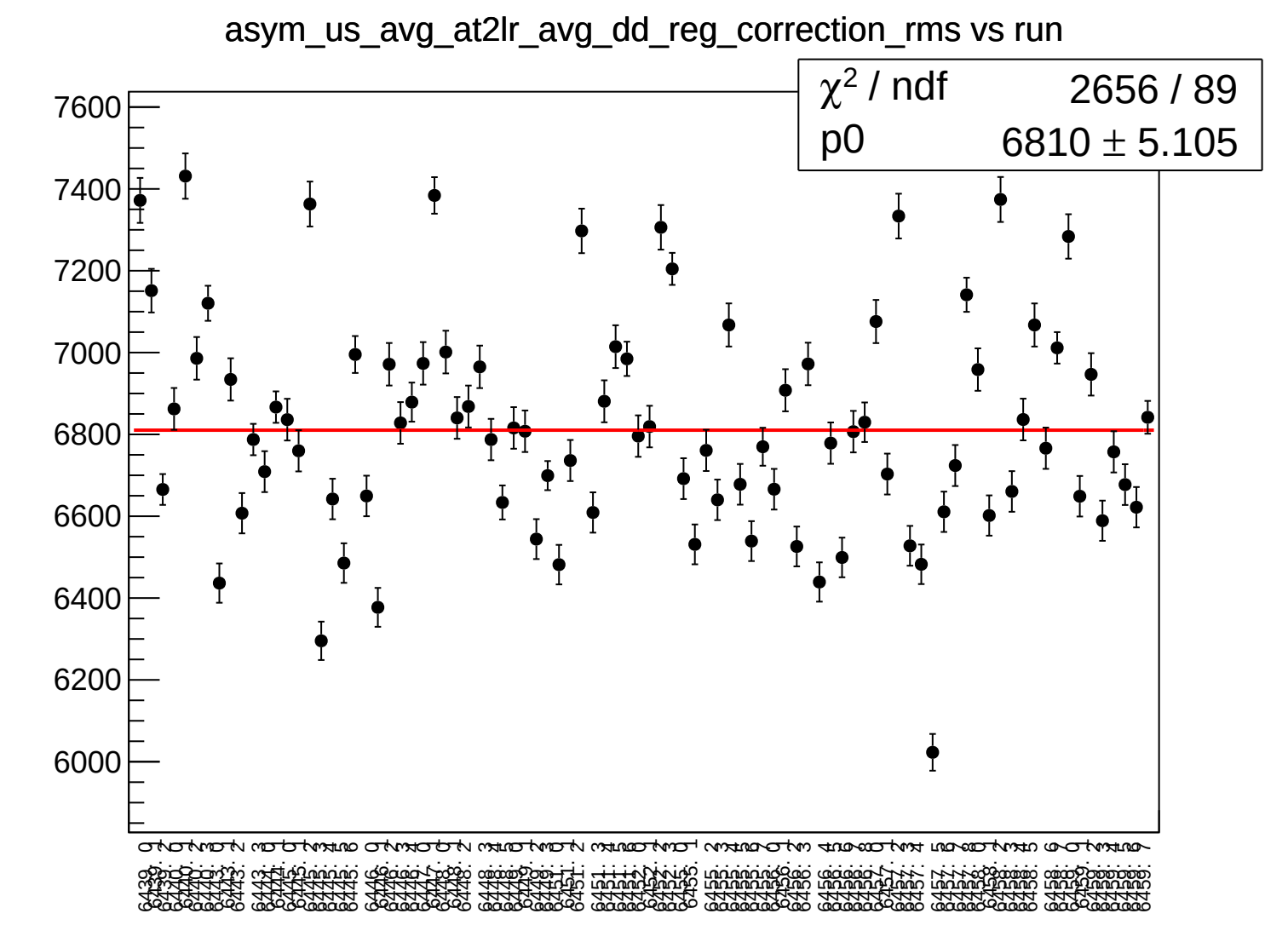

reg_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 86.05 / 89
p0 −531.7 ± 1833
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 90
Mean −498.3
Std Dev 0
2
1
0
−1
−2
−3

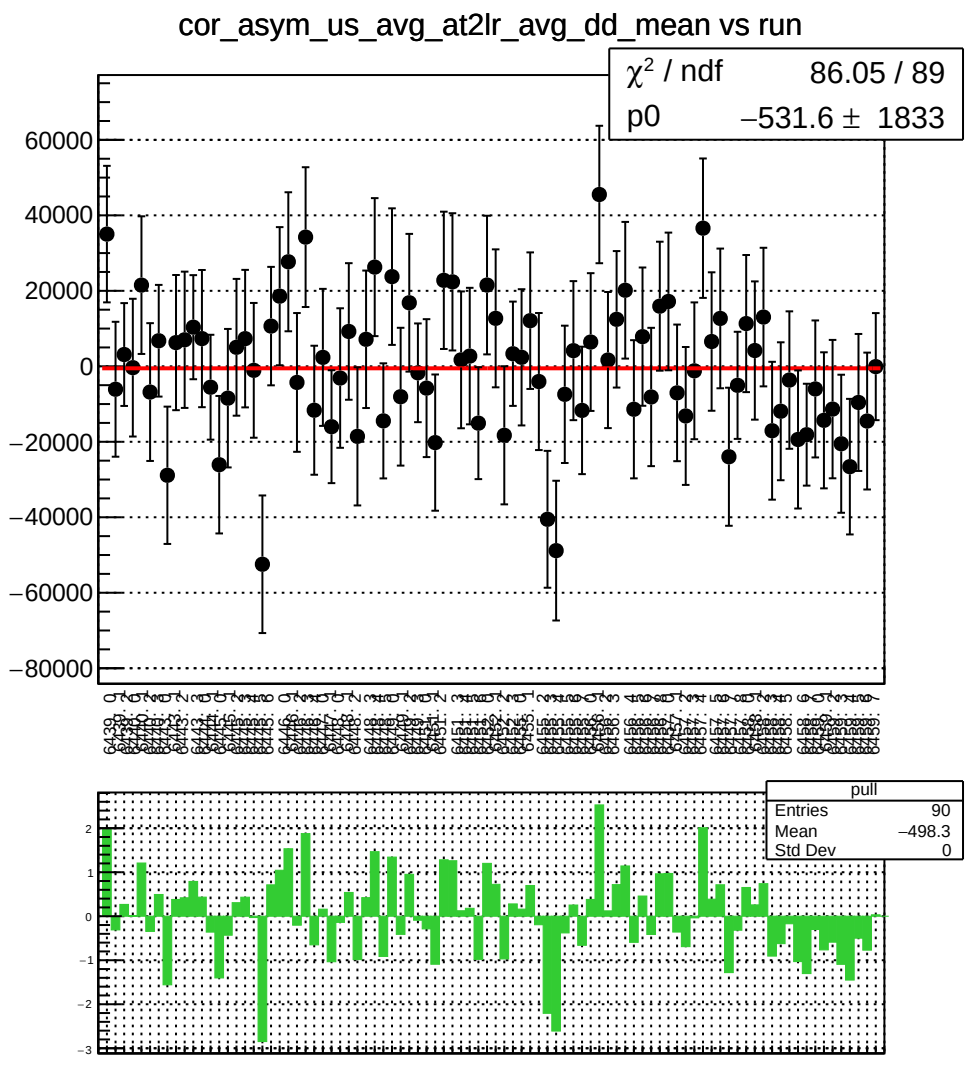

pull1D
Entries 90
Mean 0.007966
Std Dev 0.9778
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

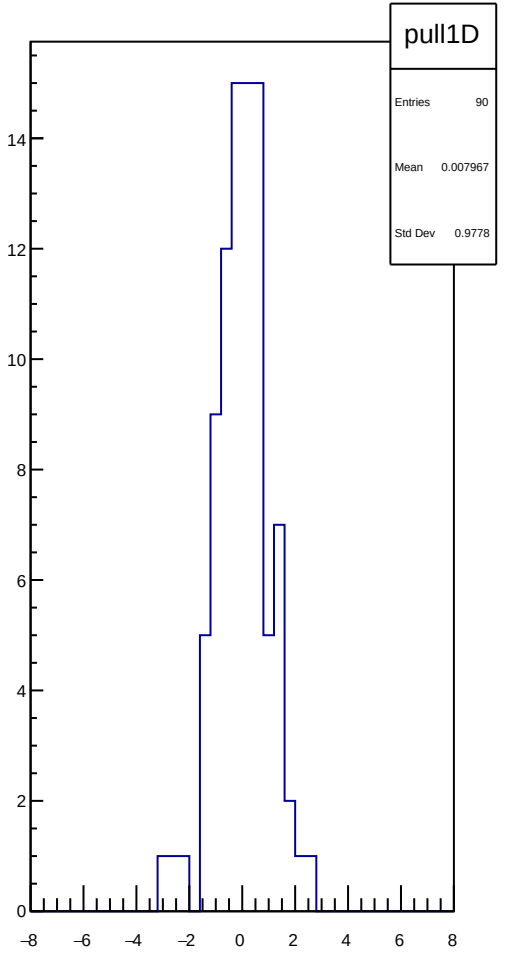

reg_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 165 / 89
p0 1730 ± 1.296
1820
1800
1780
1760
1740
1720
1700
1680

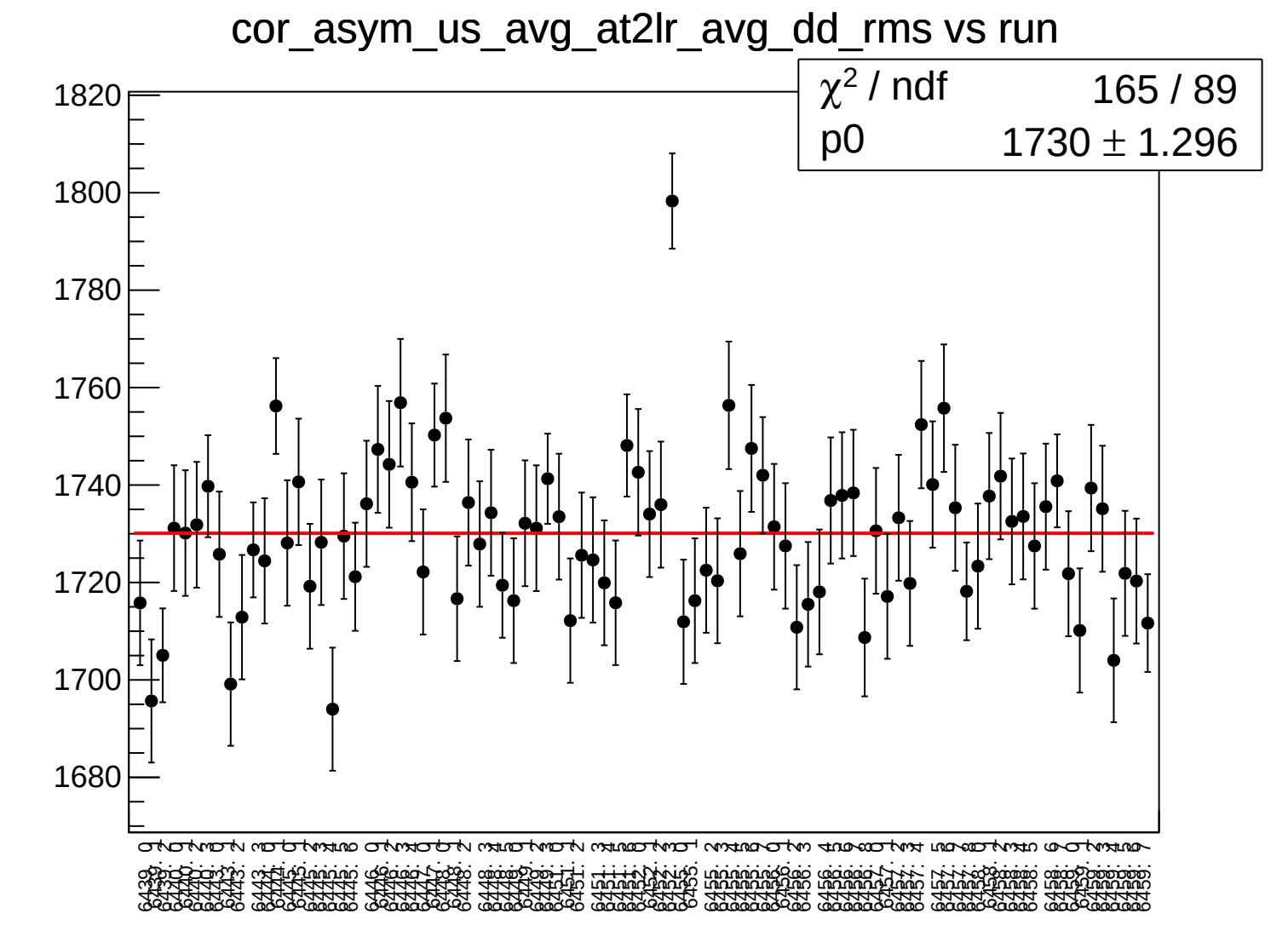

asym_us_avg_at2lr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 82.44 / 89
p0 1.092e+04 ± 7220
200
100
0
−100
−200
pull
Entries 90
Mean −145.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

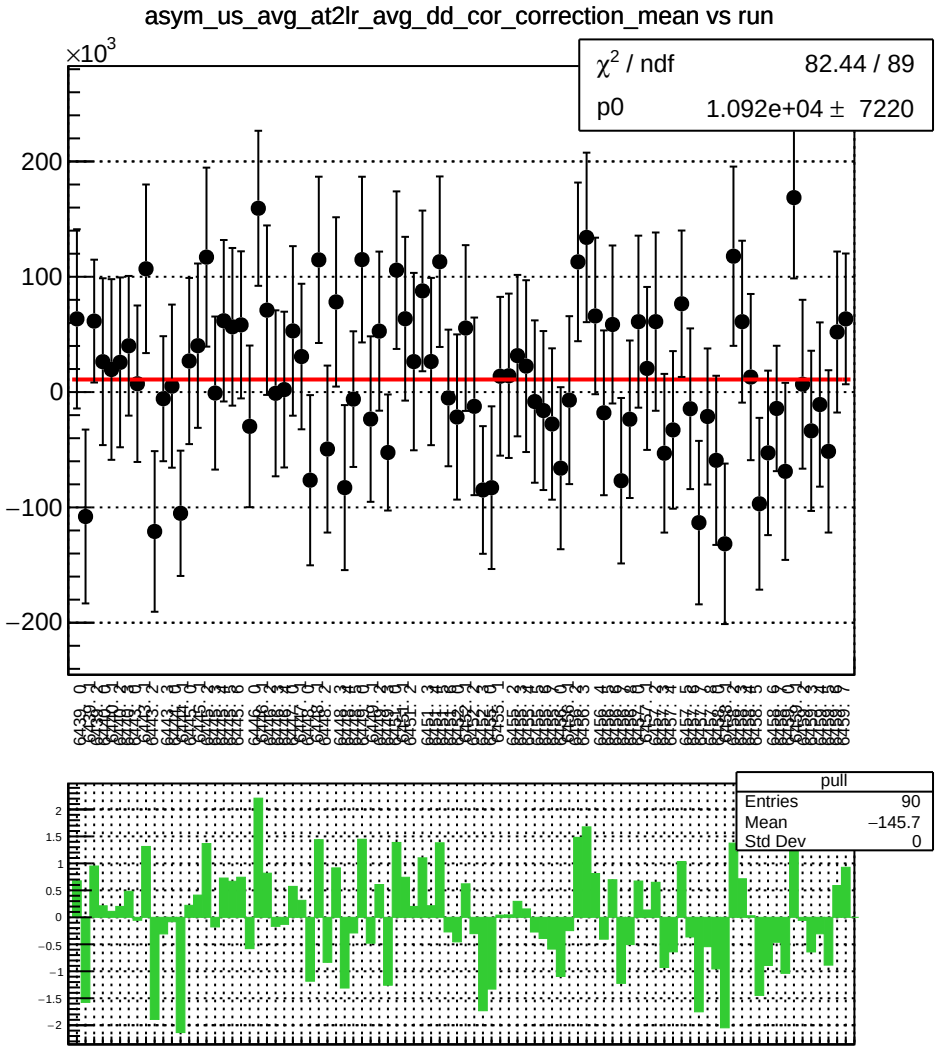

pull1D
Entries 90
Mean 0.01585
Std Dev 0.9569
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

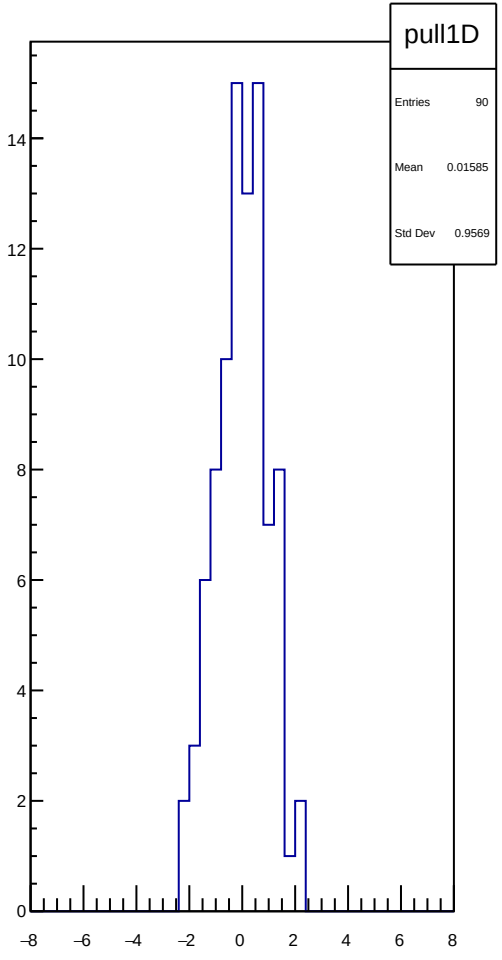

asym_us_avg_at2lr_avg_dd_reg_correction_rms vs run
χ² / ndf 2656 / 89
p0 6810 ± 5.105
7600
7400
7200
7000
6800
6600
6400
6200
6000

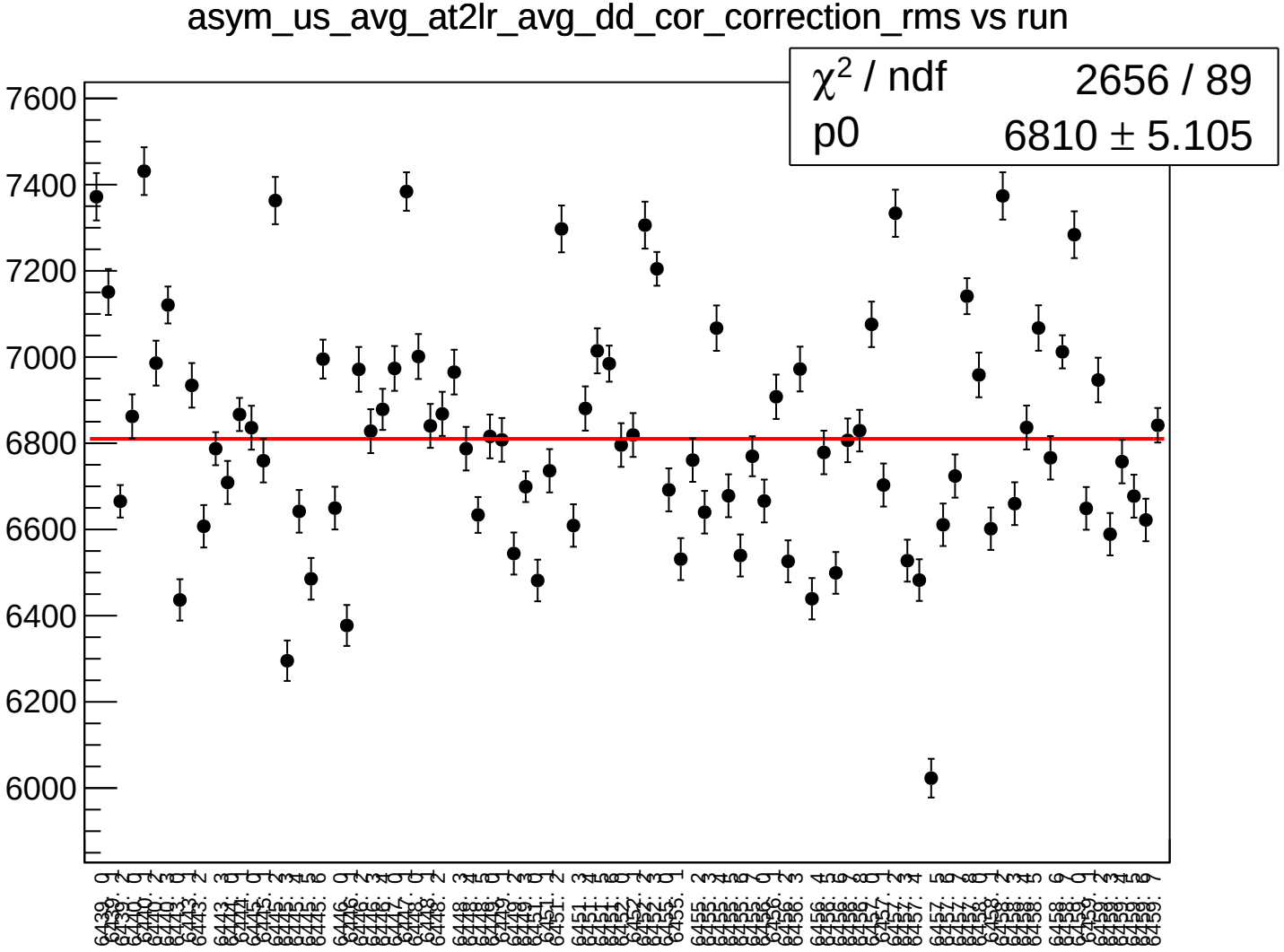

cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 86.05 / 89
p0 −531.6 ± 1833
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 90
Mean −498.3
Std Dev 0
2
1
0
−1
−2
−3

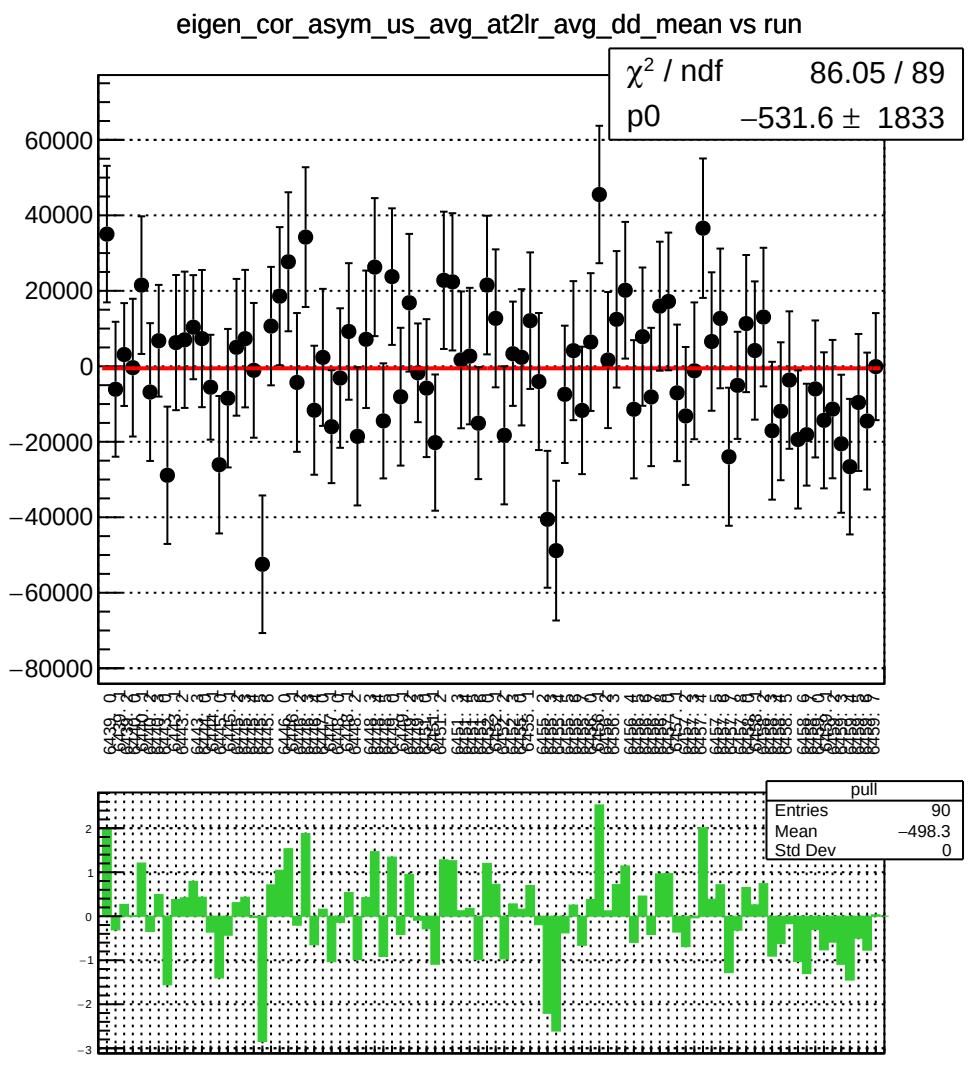

pull1D
Entries 90
Mean 0.007967
Std Dev 0.9778
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

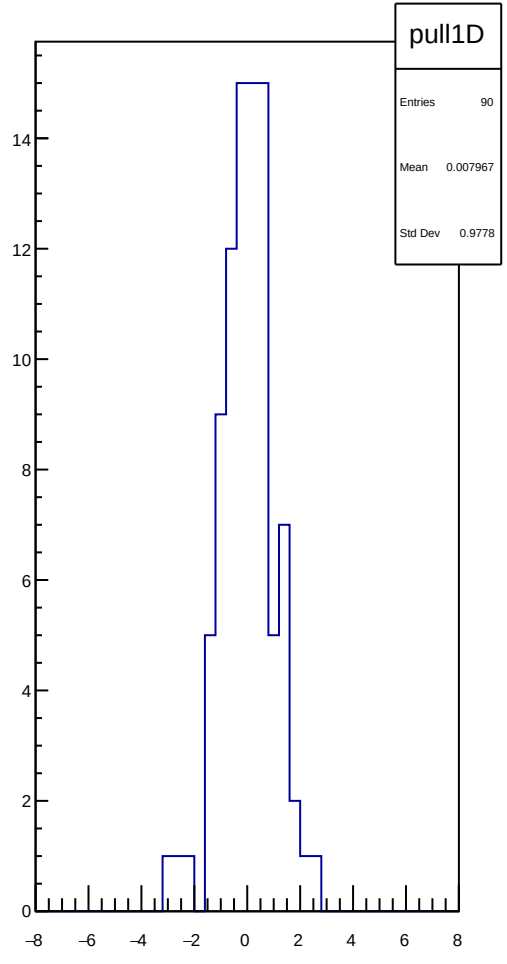

cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 165 / 89
p0 1730 ± 1.296
1820
1800
1780
1760
1740
1720
1700
1680

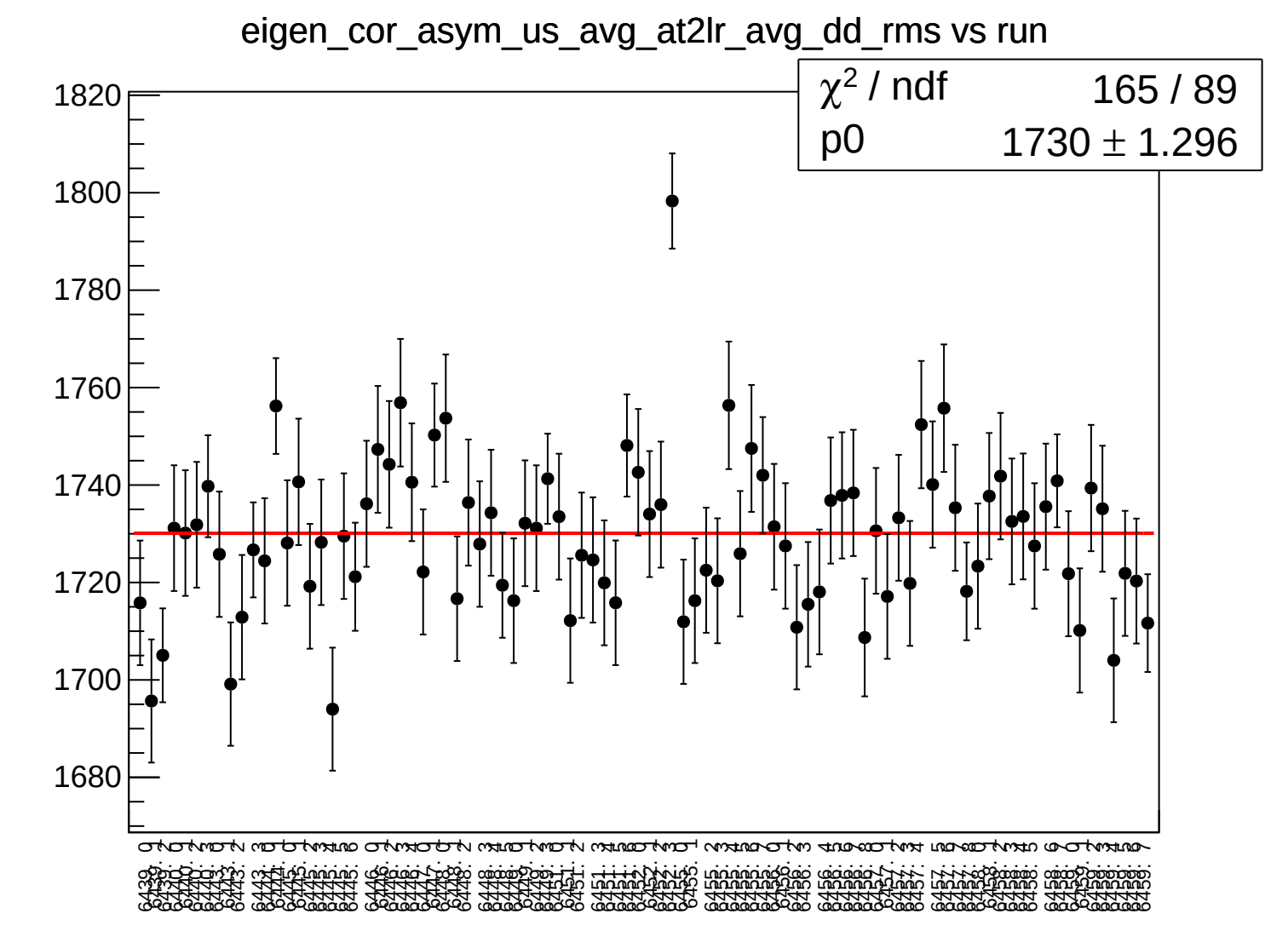

asym_us_avg_at2lr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 82.44 / 89
p0 1.092e+04 ± 7220
200
100
0
−100
−200
pull
Entries 90
Mean −145.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

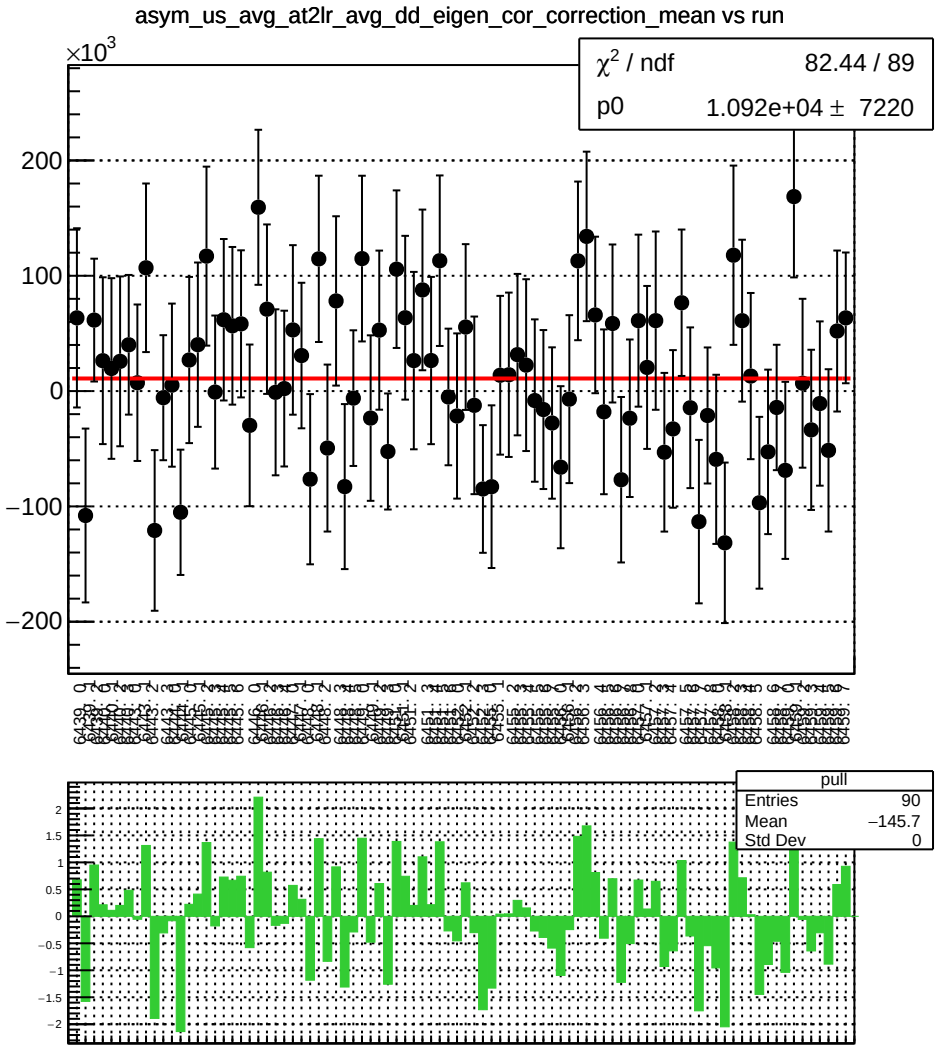

pull1D
Entries 90
Mean 0.01585
Std Dev 0.9569
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

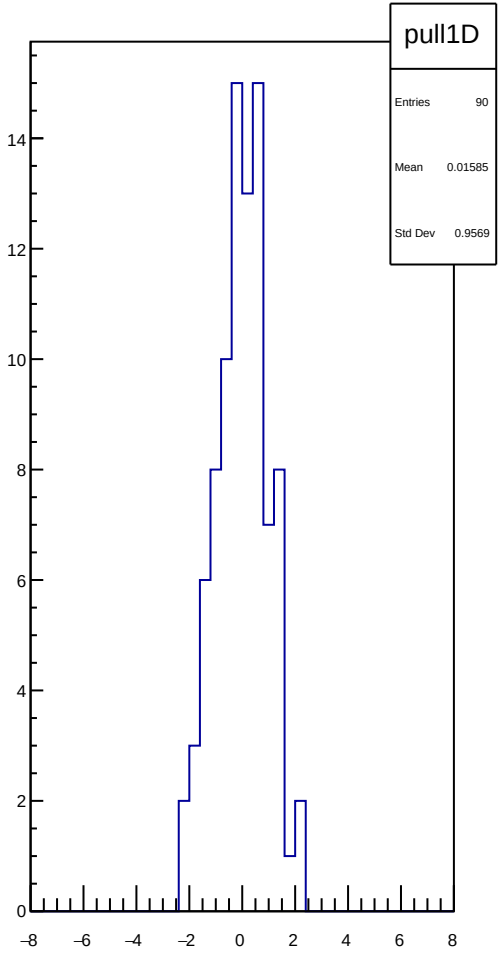

asym_us_avg_at2lr_avg_dd_cor_correction_rms vs run
χ^2 / ndf 2656 / 89
p0 6810 ± 5.105
7600
7400
7200
7000
6800
6600
6400
6200
6000

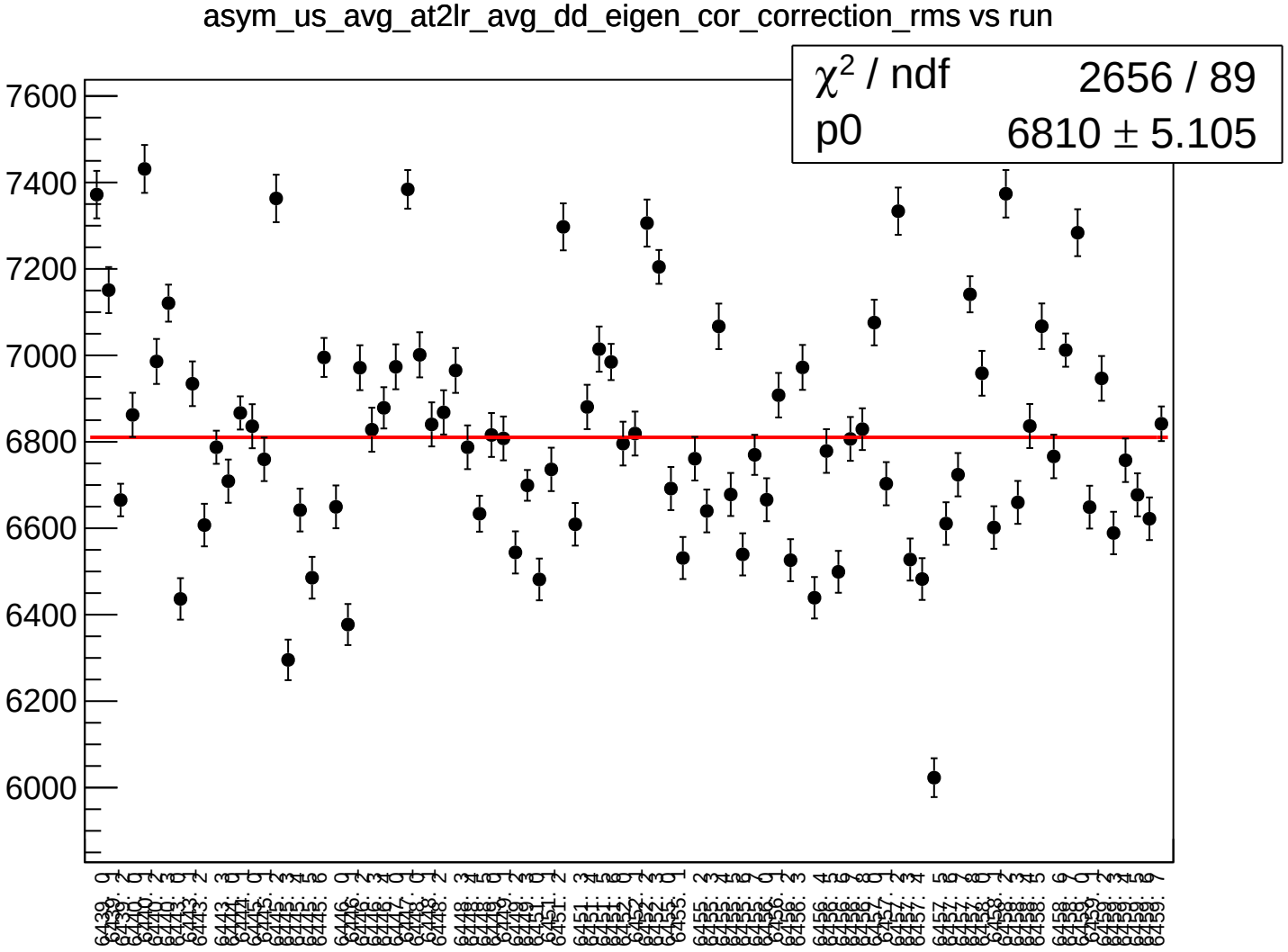

eigen_cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 86.05 / 89
p0 −531.6 ± 1833
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 90
Mean −498.3
Std Dev 0
2
1
0
−1
−2
−3

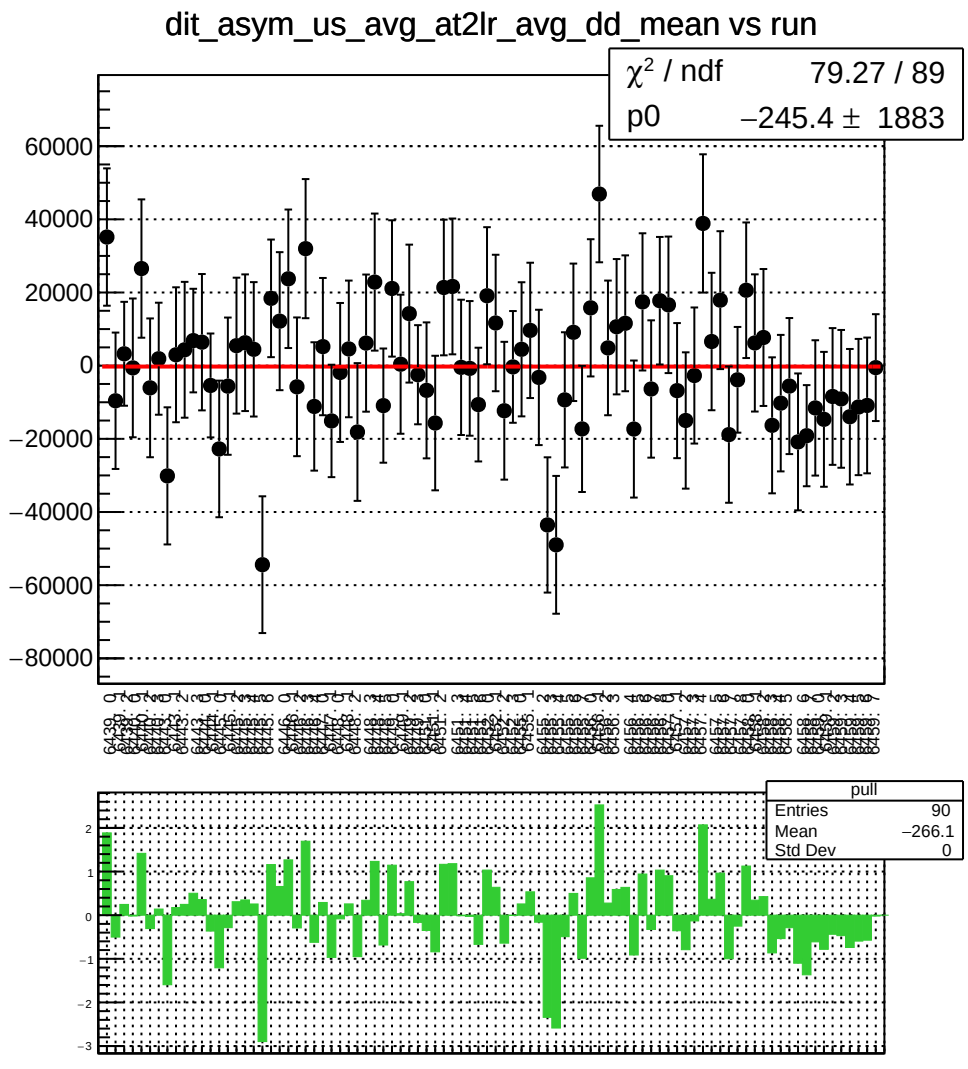

pull1D
Entries 90
Mean 0.007967
Std Dev 0.9778
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

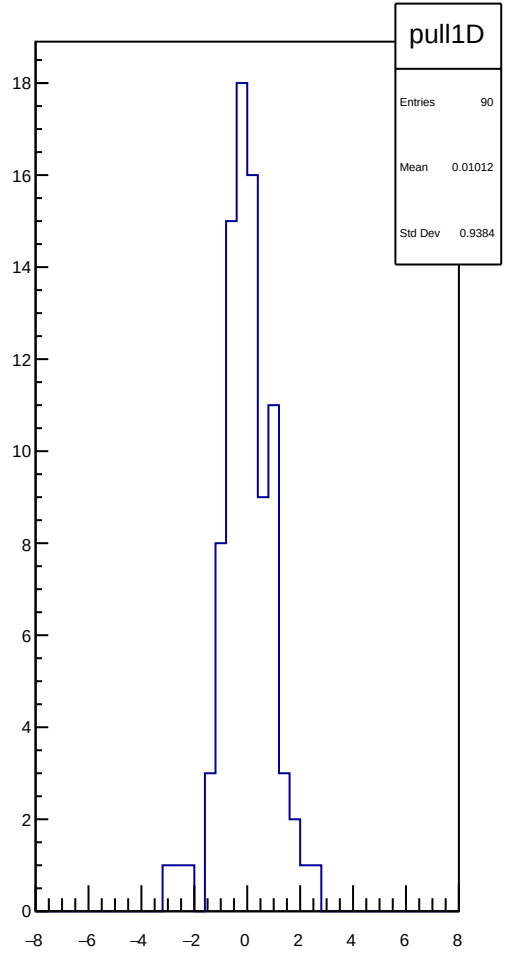

eigen_cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 165 / 89
p0 1730 ± 1.296
1820
1800
1780
1760
1740
1720
1700
1680

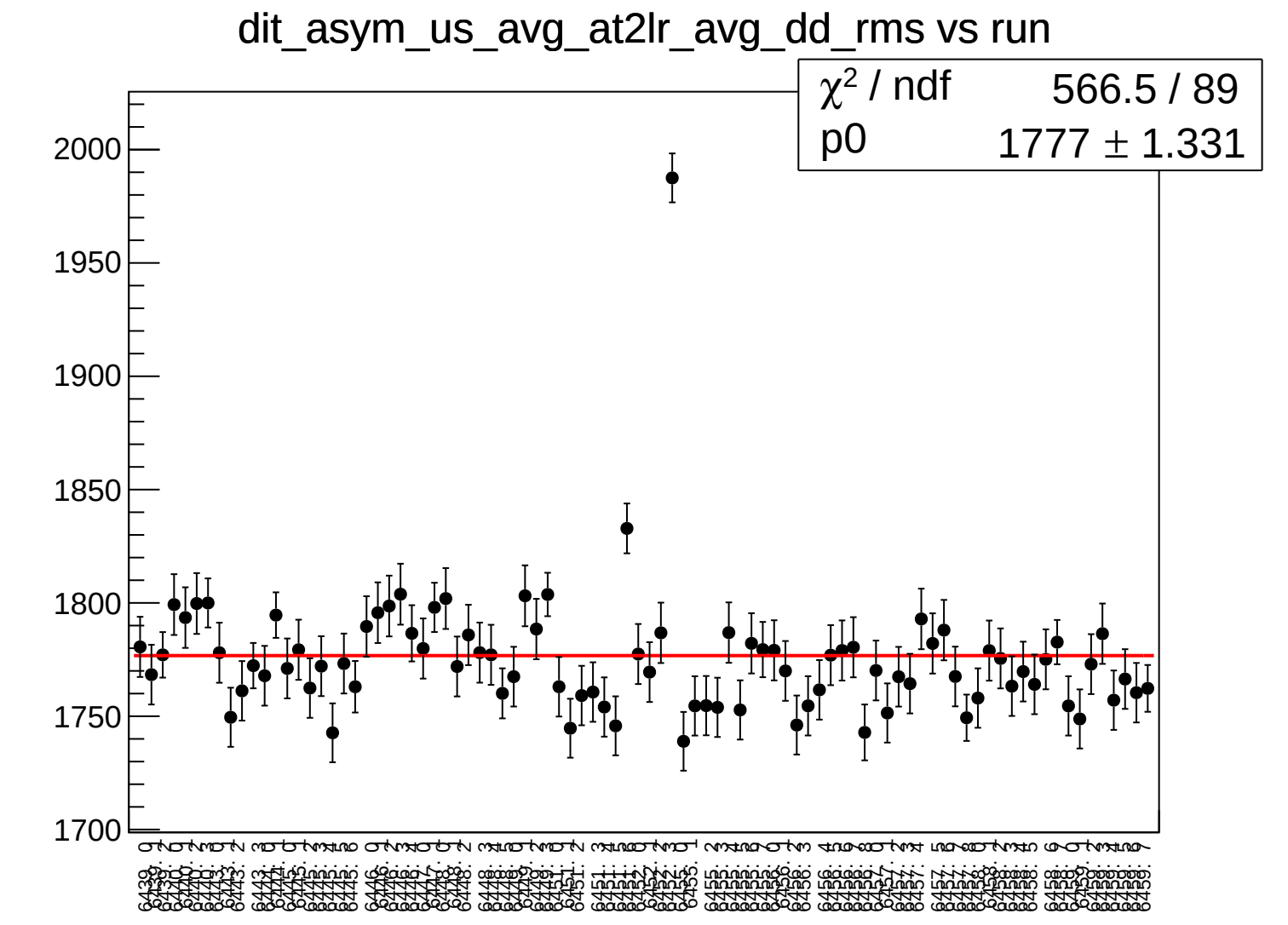

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 82.44 / 89
p0 1.092e+04 ± 7220
200
100
0
−100
−200
pull
Entries 90
Mean −145.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

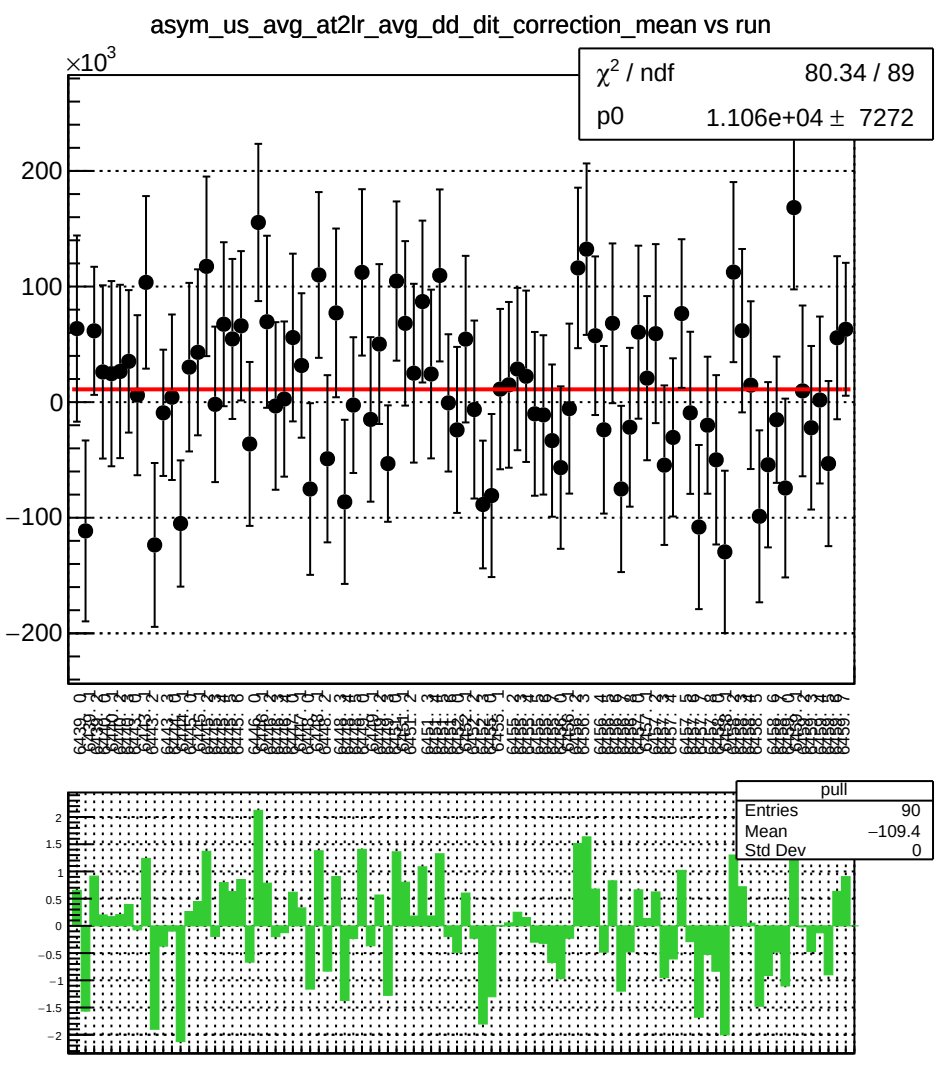

pull1D
Entries 90
Mean 0.01585
Std Dev 0.9569
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

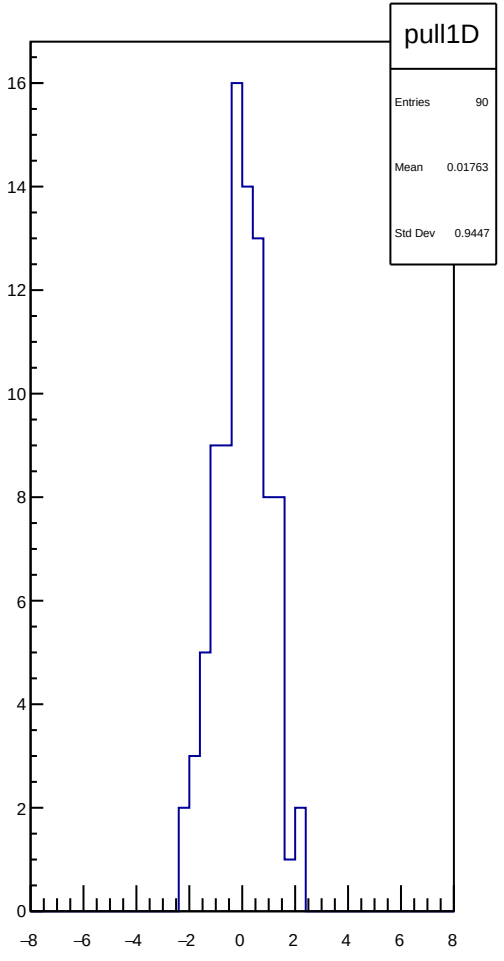

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 2656 / 89
p0 6810 ± 5.105
7600
7400
7200
7000
6800
6600
6400
6200
6000

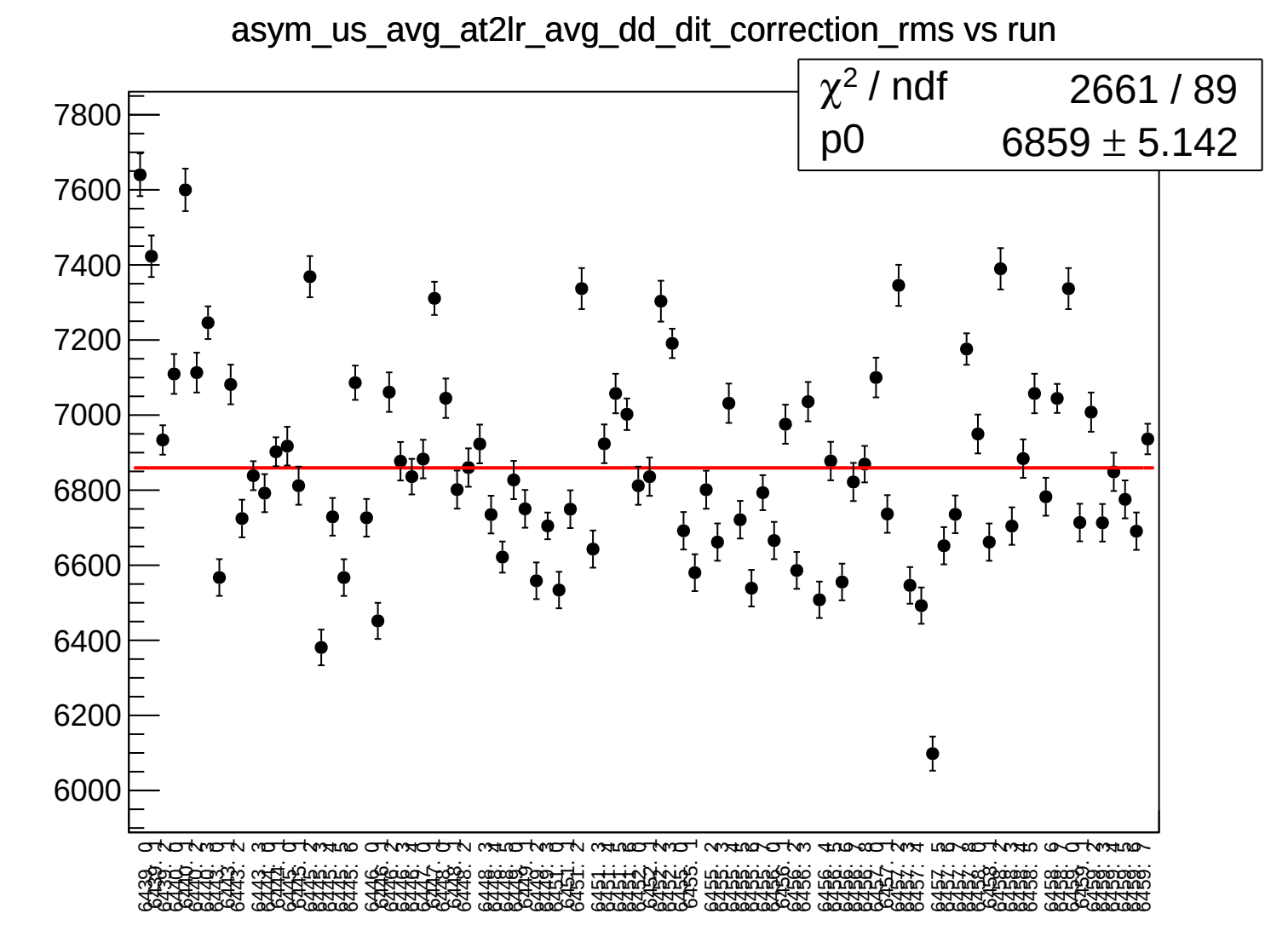

dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 79.27 / 89
p0 −245.4 ± 1883
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 90
Mean −266.1
Std Dev 0
2
1
0
−1
−2
−3

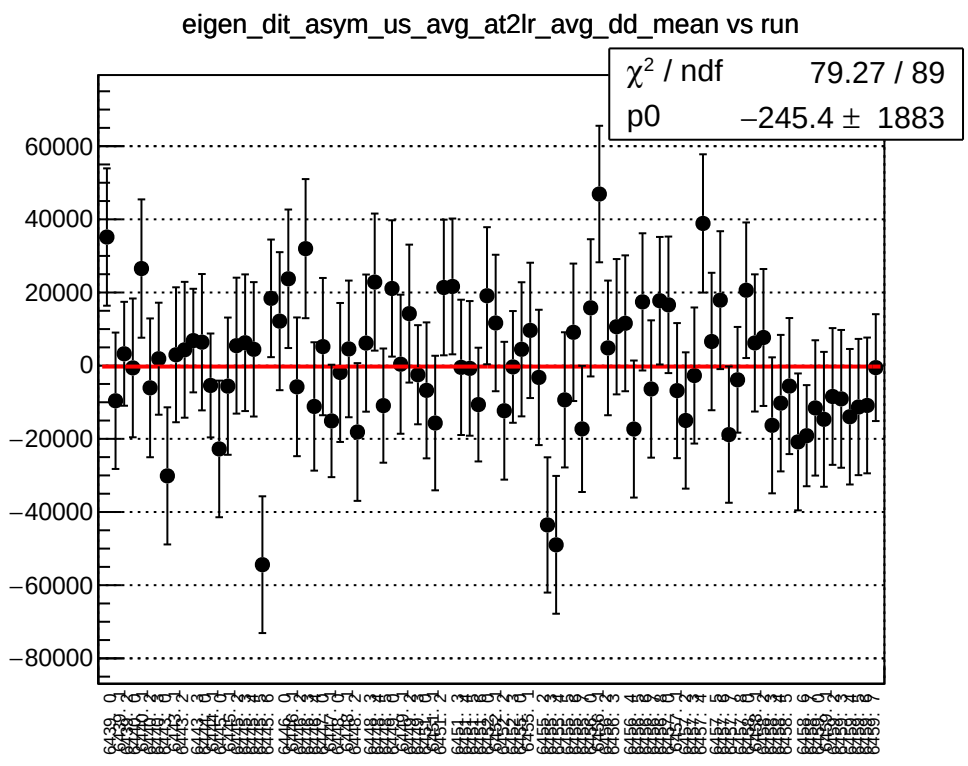

pull1D
Entries 90
Mean 0.01012
Std Dev 0.9384
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

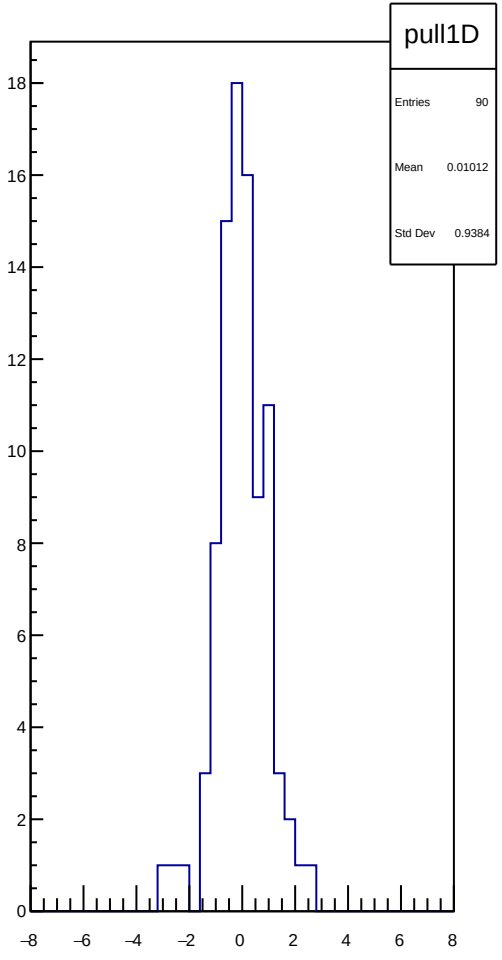

dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 566.5 / 89
p0 1777 ± 1.331
2000
1950
1900
1850
1800
1750
1700

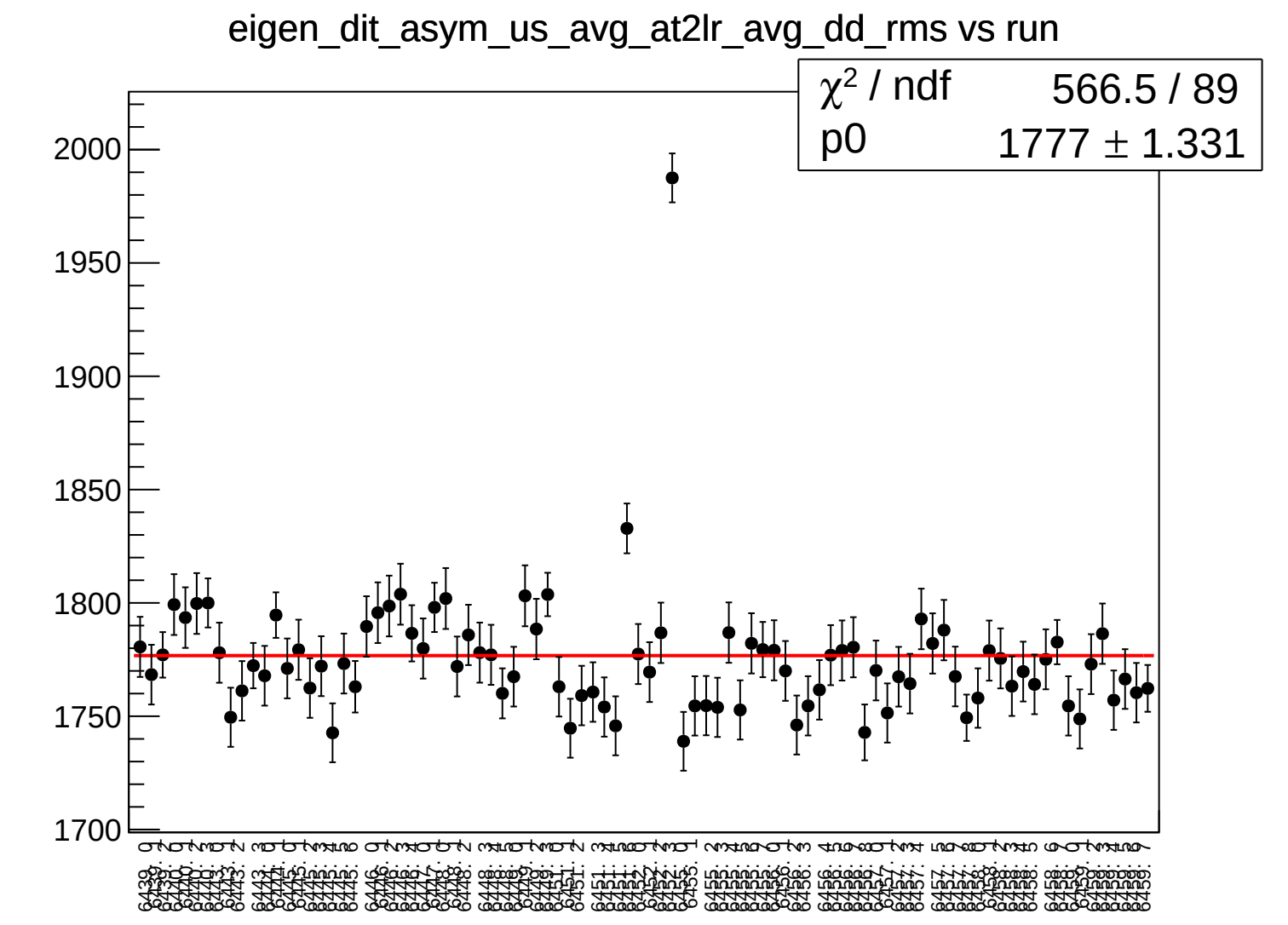

asym_us_avg_at2lr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 80.34 / 89
p0 1.106e+04 ± 7272
200
100
0
−100
−200
pull
Entries 90
Mean −109.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

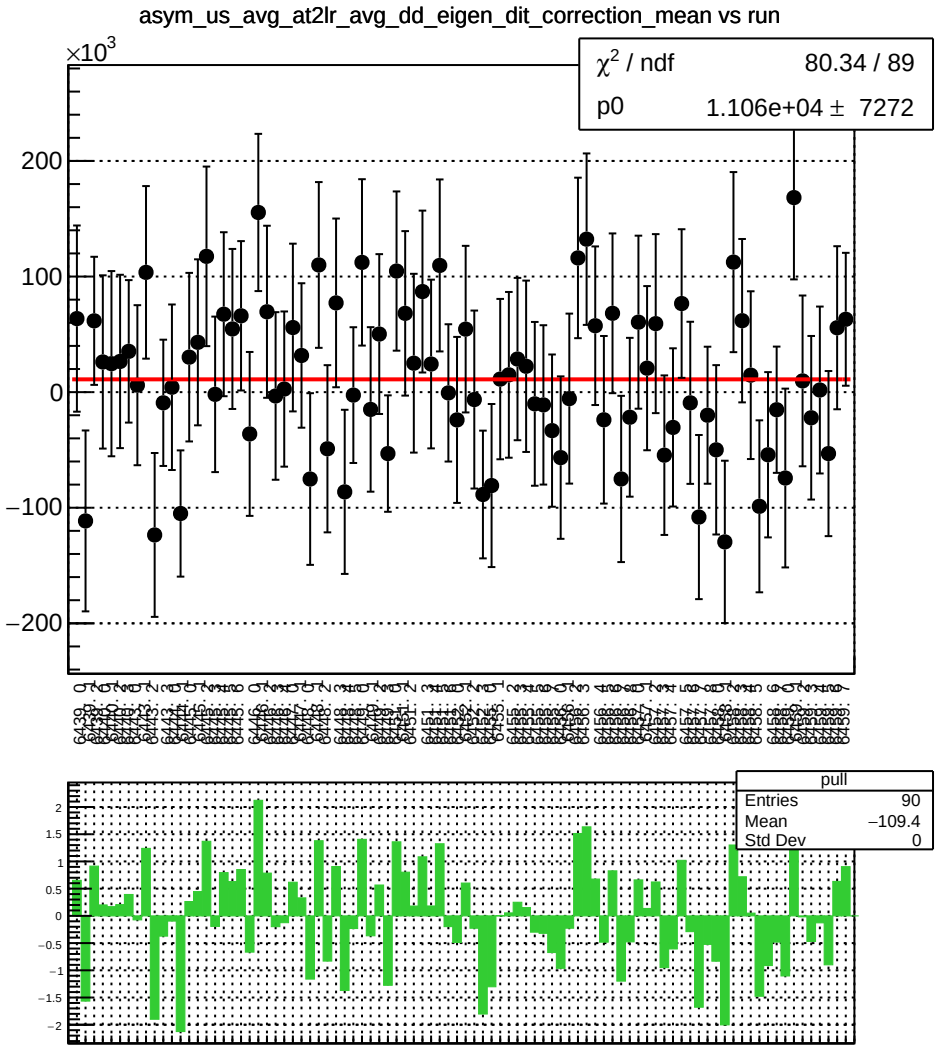

pull1D
Entries 90
Mean 0.01763
Std Dev 0.9447
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

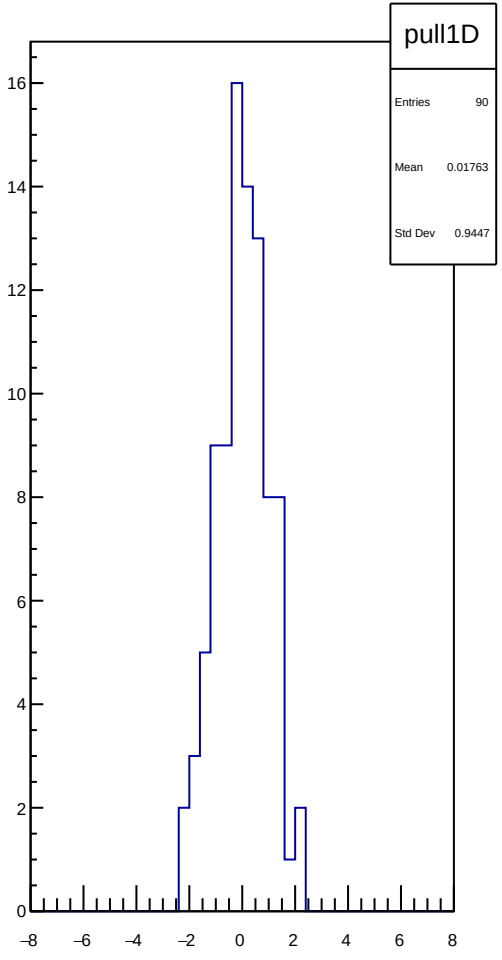

asym_us_avg_at2lr_avg_dd_dit_correction_rms vs run
χ² / ndf 2661 / 89
p0 6859 ± 5.142
7800
7600
7400
7200
7000
6800
6600
6400
6200
6000

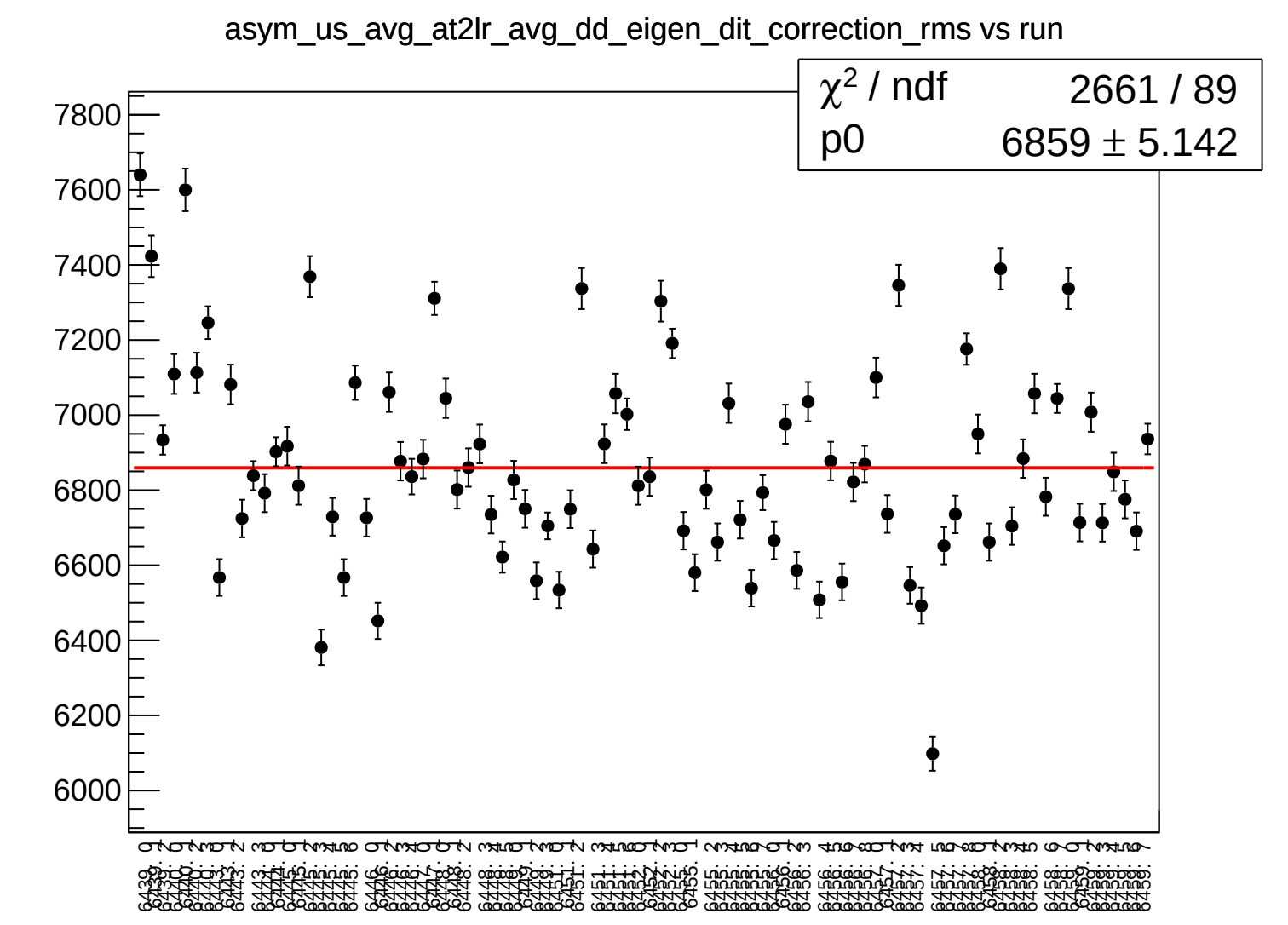

eigen_dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 79.27 / 89
p0 −245.4 ± 1883
pull
Entries 90
Mean −266.1
Std Dev 0

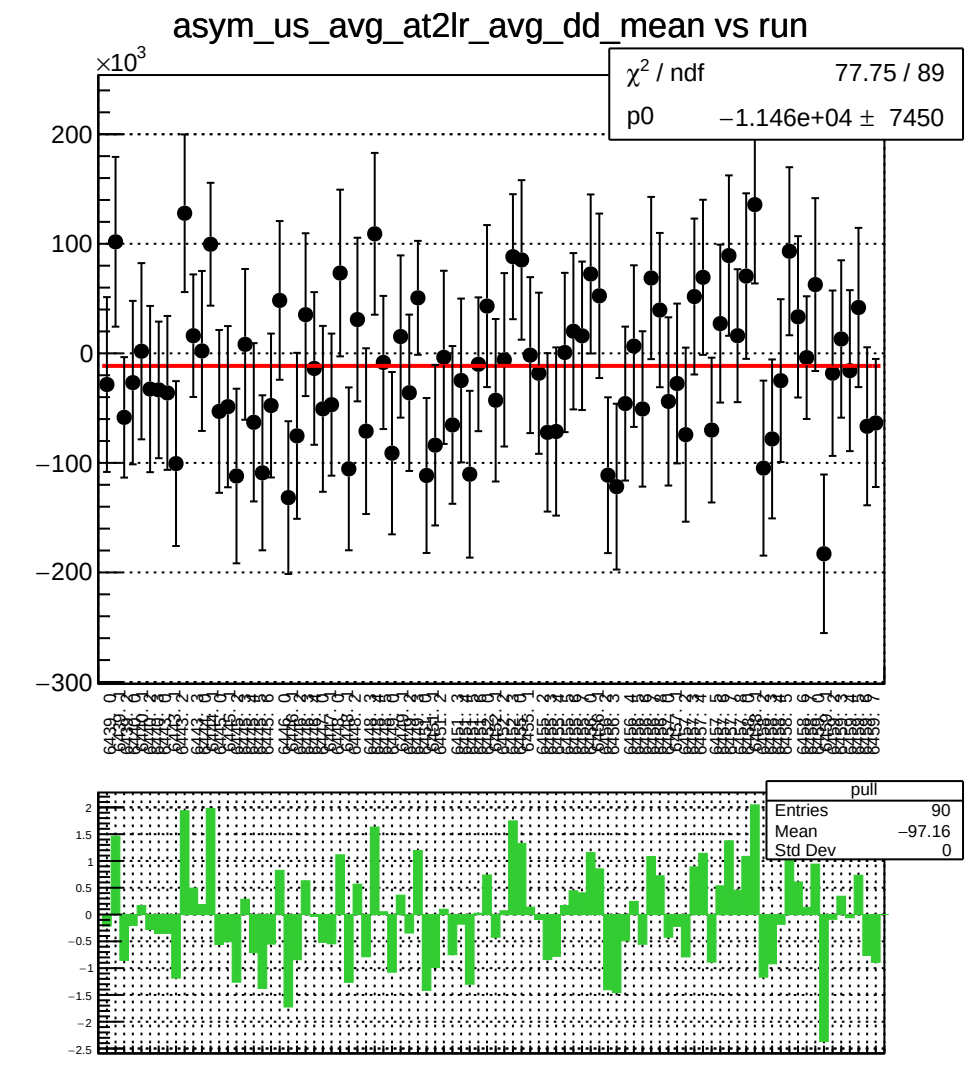

pull1D
Entries 90
Mean 0.01012
Std Dev 0.9384

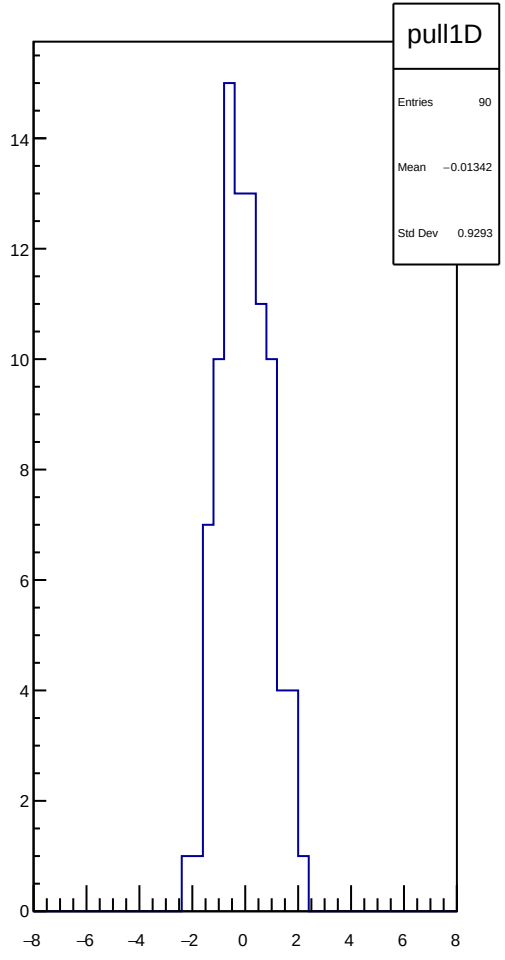

eigen_dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 566.5 / 89
p0 1777 ± 1.331
2000
1950
1900
1850
1800
1750
1700

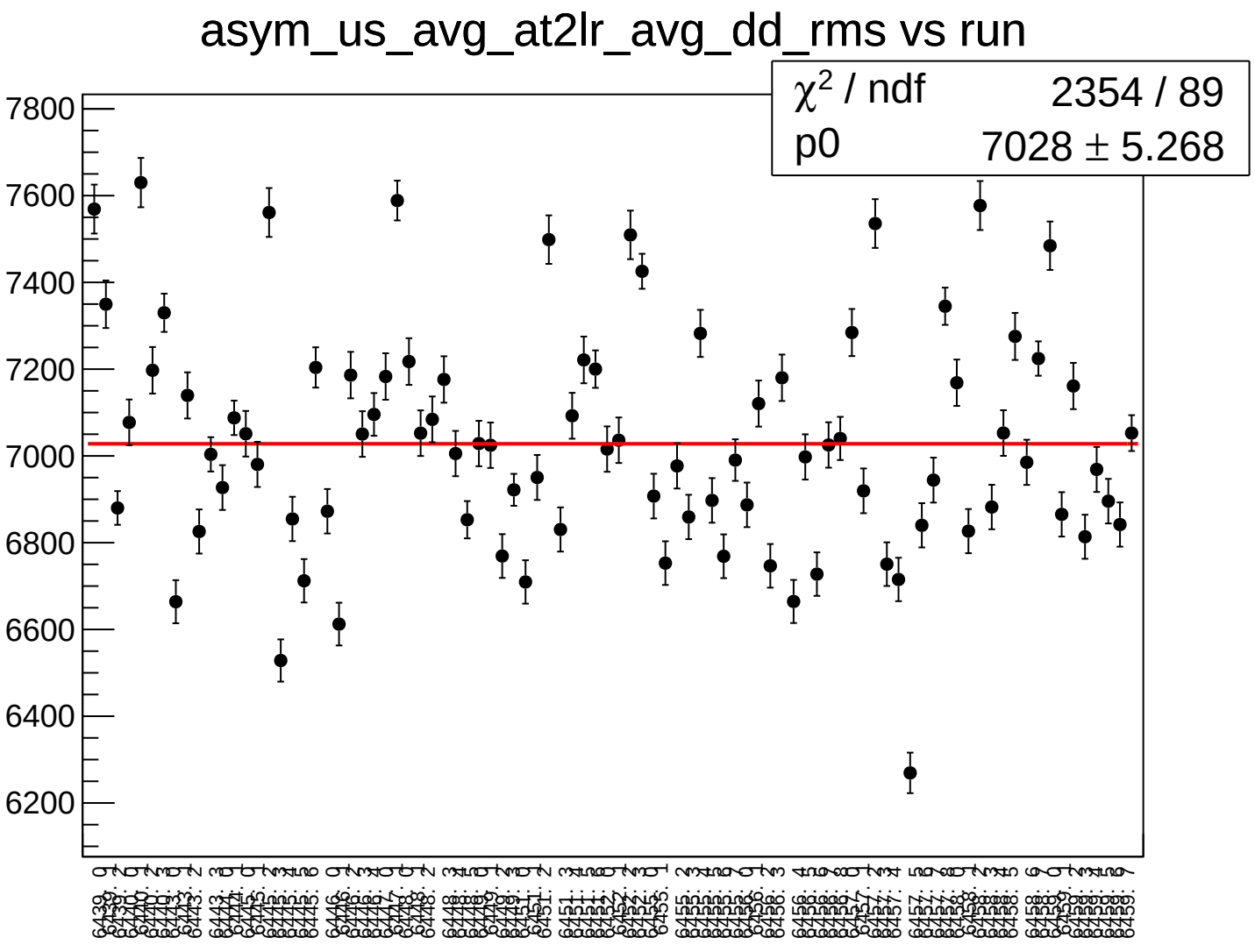

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 80.34 / 89
p0 1.106e+04 ± 7272
200
100
0
−100
−200
pull
Entries 90
Mean −109.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

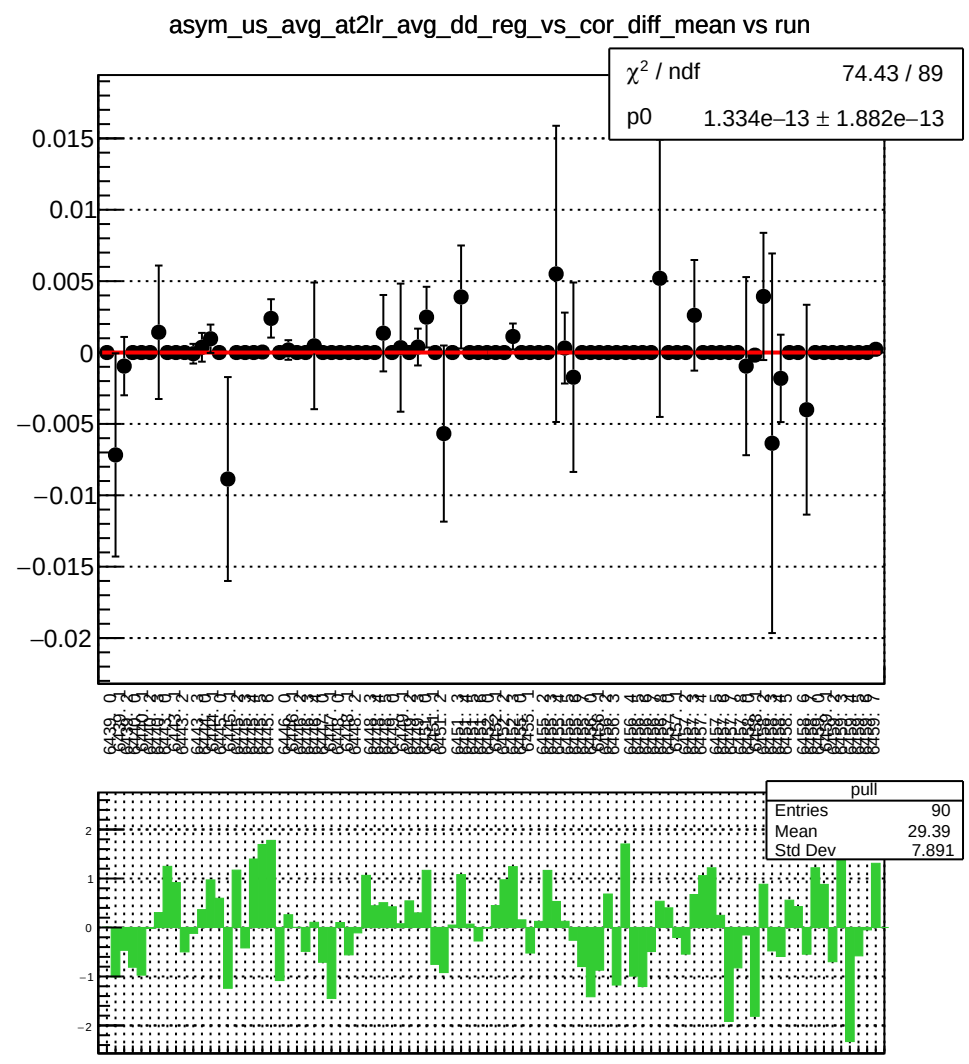

pull1D
Entries 90
Mean 0.01763
Std Dev 0.9447
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

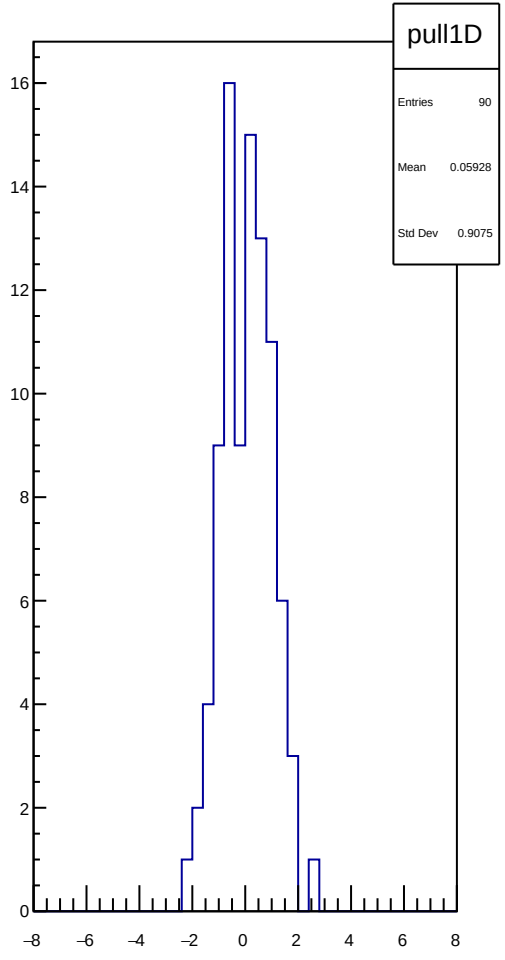

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 2661 / 89
p0 6859 ± 5.142
7800
7600
7400
7200
7000
6800
6600
6400
6200
6000

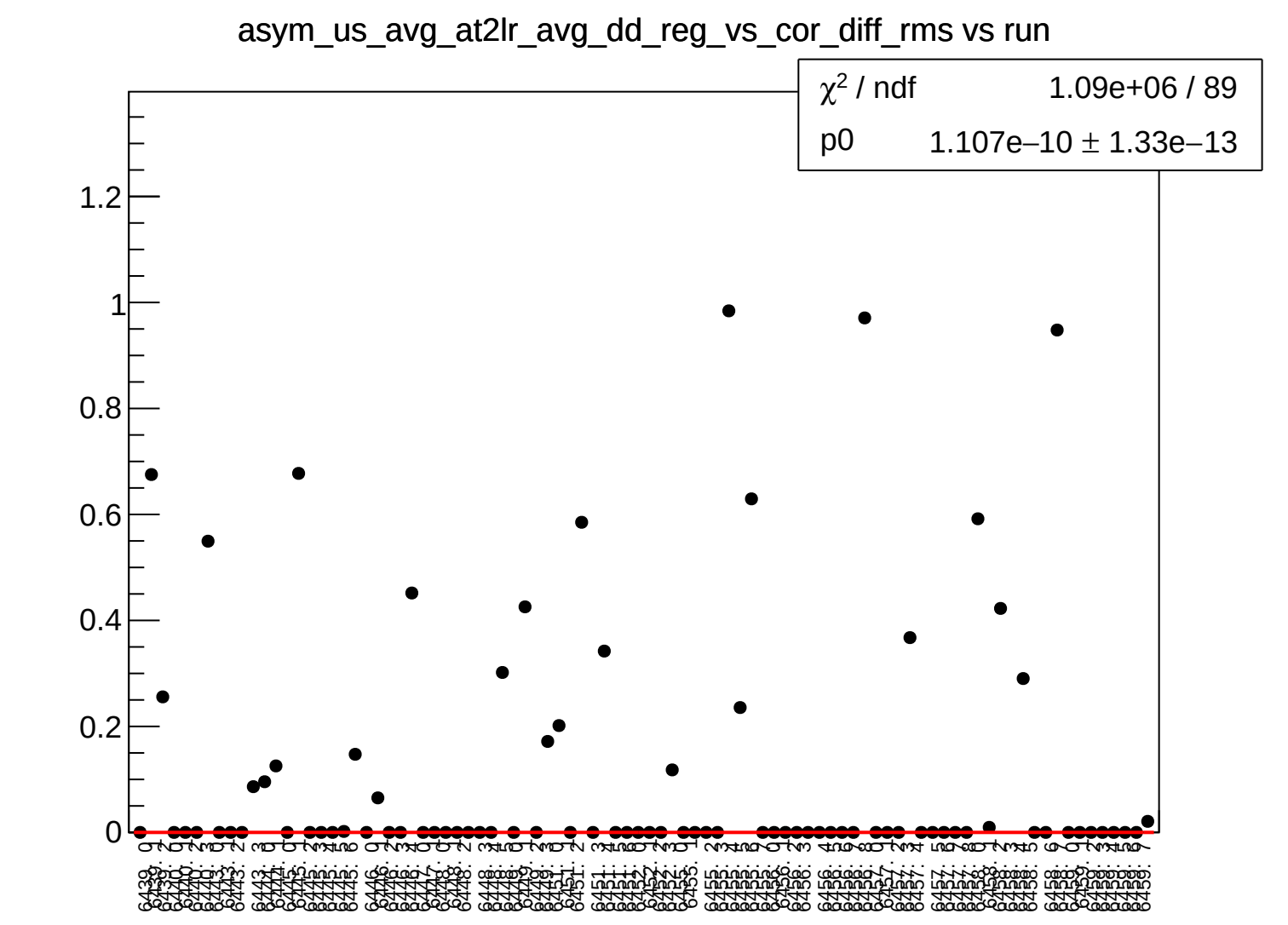

asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ² / ndf 77.75 / 89
p0 −1.146e+04 ± 7450
200
100
0
−100
−200
−300
pull
Entries 90
Mean −97.16
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

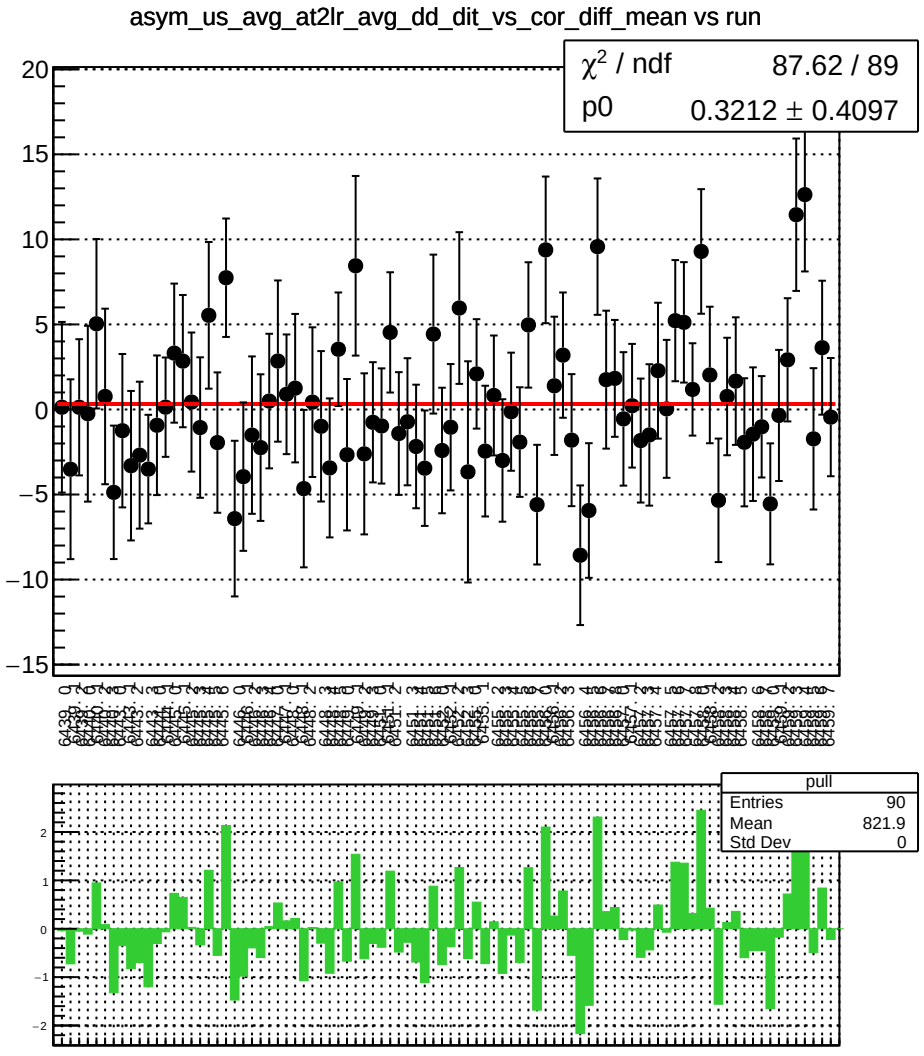

pull1D
Entries 90
Mean −0.01342
Std Dev 0.9293
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

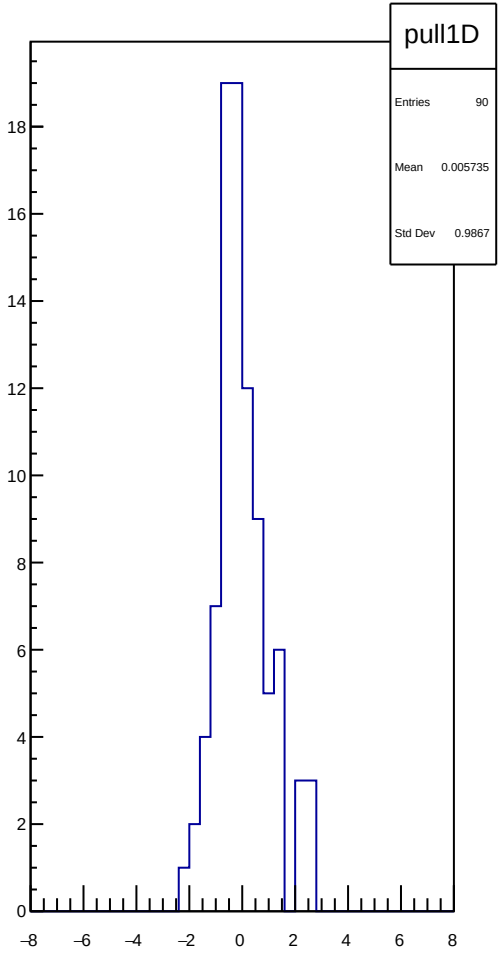

asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 2354 / 89
p0 7028 ± 5.268
7800
7600
7400
7200
7000
6800
6600
6400
6200

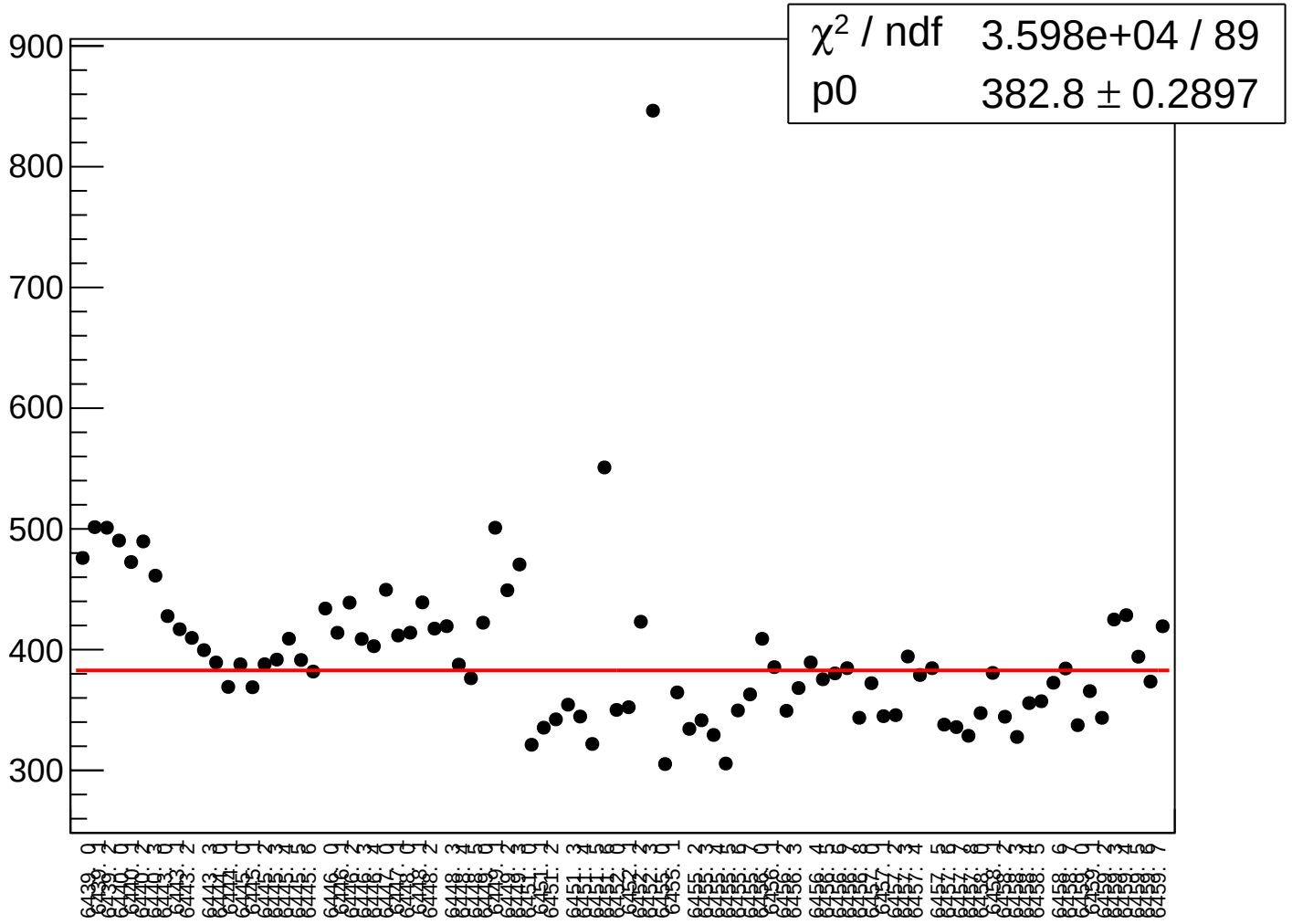

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 74.43 / 89
p0 1.334e−13 ± 1.882e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 90
Mean 29.39
Std Dev 7.891
2
1
0
−1
−2

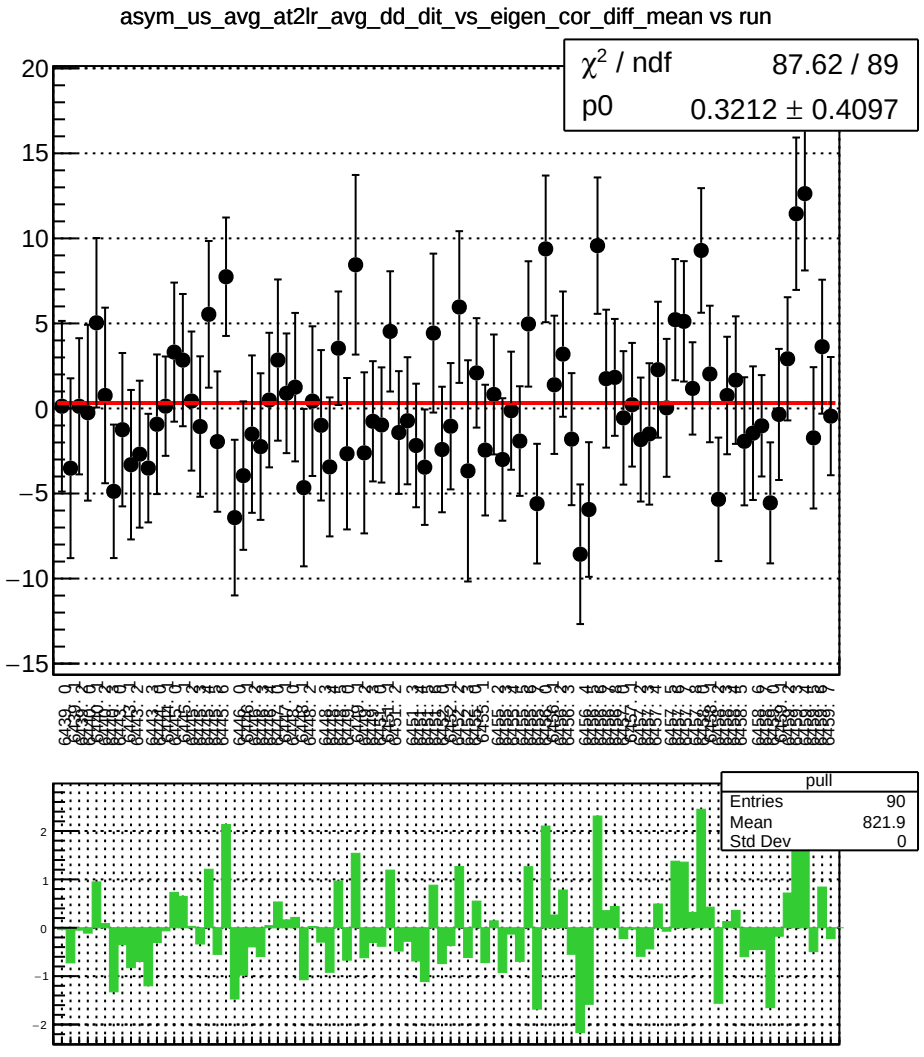

pull1D
Entries 90
Mean 0.05928
Std Dev 0.9075
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

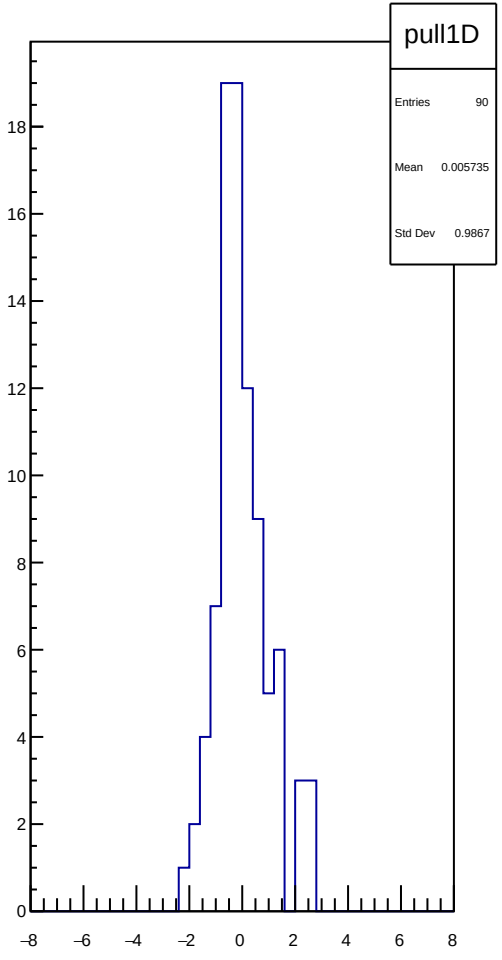

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.09e+06 / 89
p0 1.107e−10 ± 1.33e−13
1.2
1
0.8
0.6
0.4
0.2
0

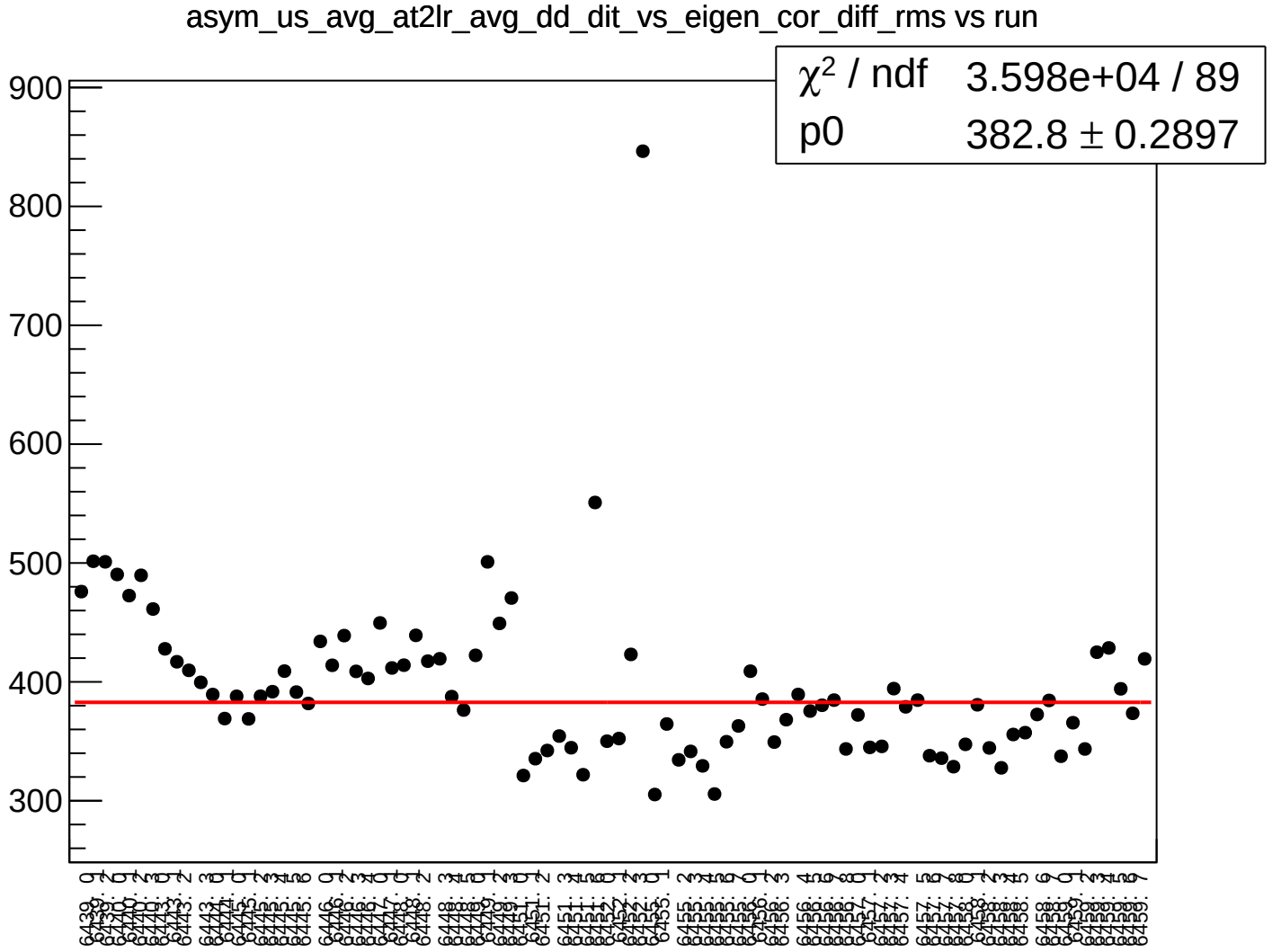

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 87.62 / 89
p0 0.3212 ± 0.4097
pull
Entries 90
Mean 821.9
Std Dev 0

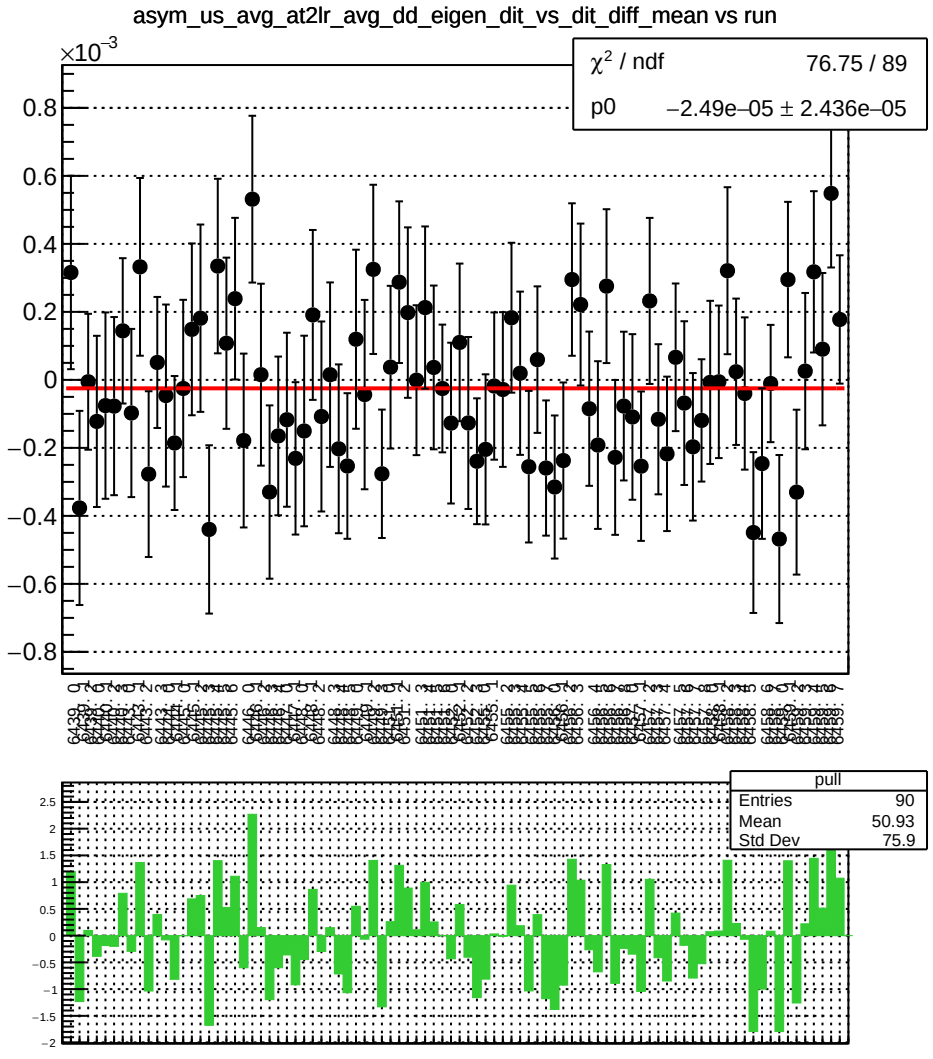

pull1D
Entries 90
Mean 0.005735
Std Dev 0.9867

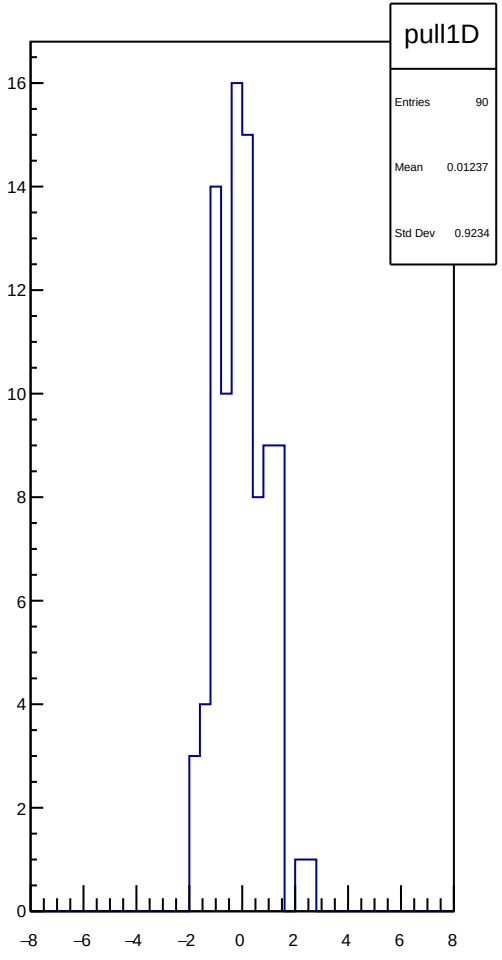

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.598e+04 / 89
p0 382.8 ± 0.2897
900
800
700
600
500
400
300

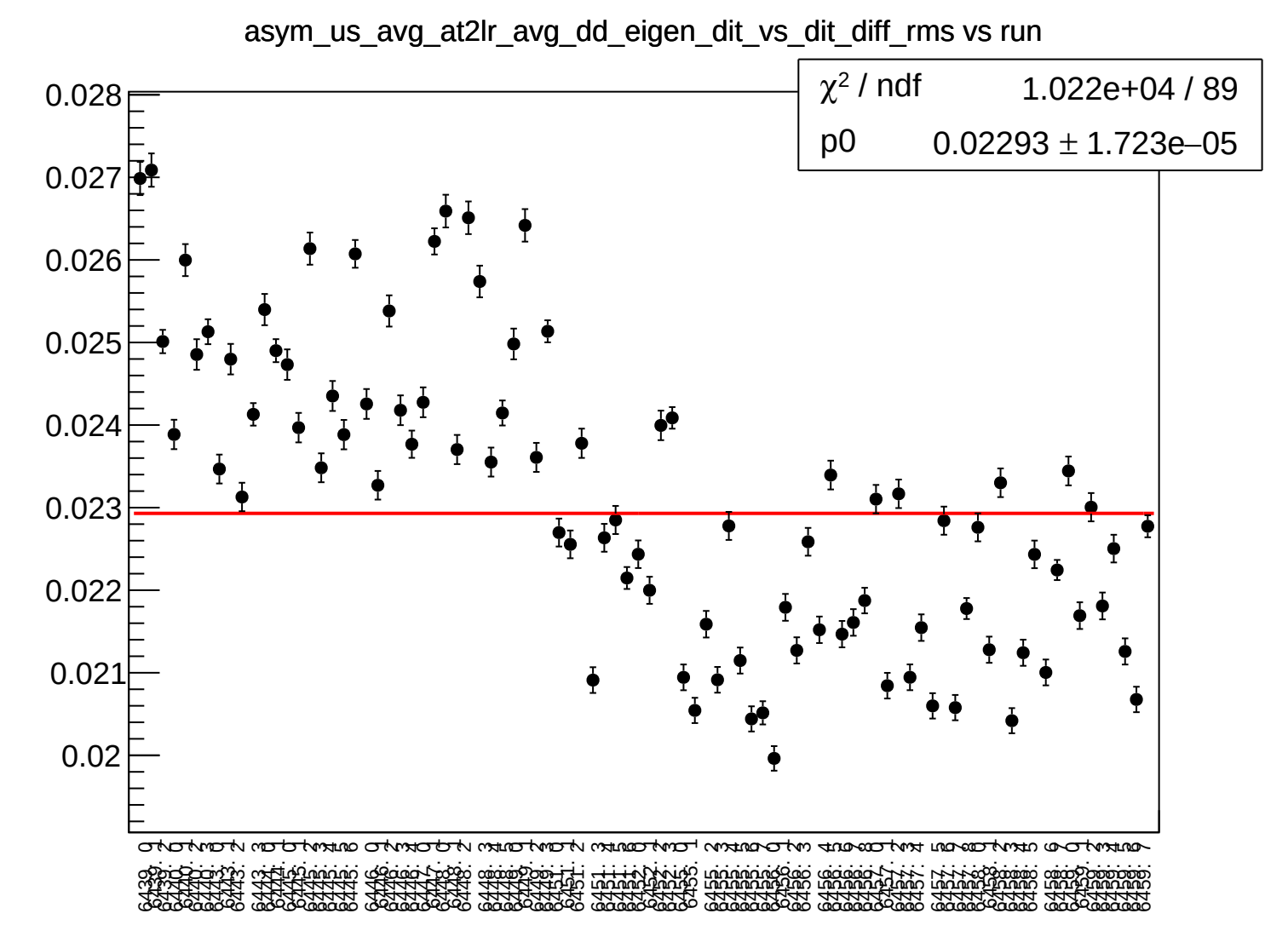

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.62 / 89
p0 0.3212 ± 0.4097
pull
Entries 90
Mean 821.9
Std Dev 0

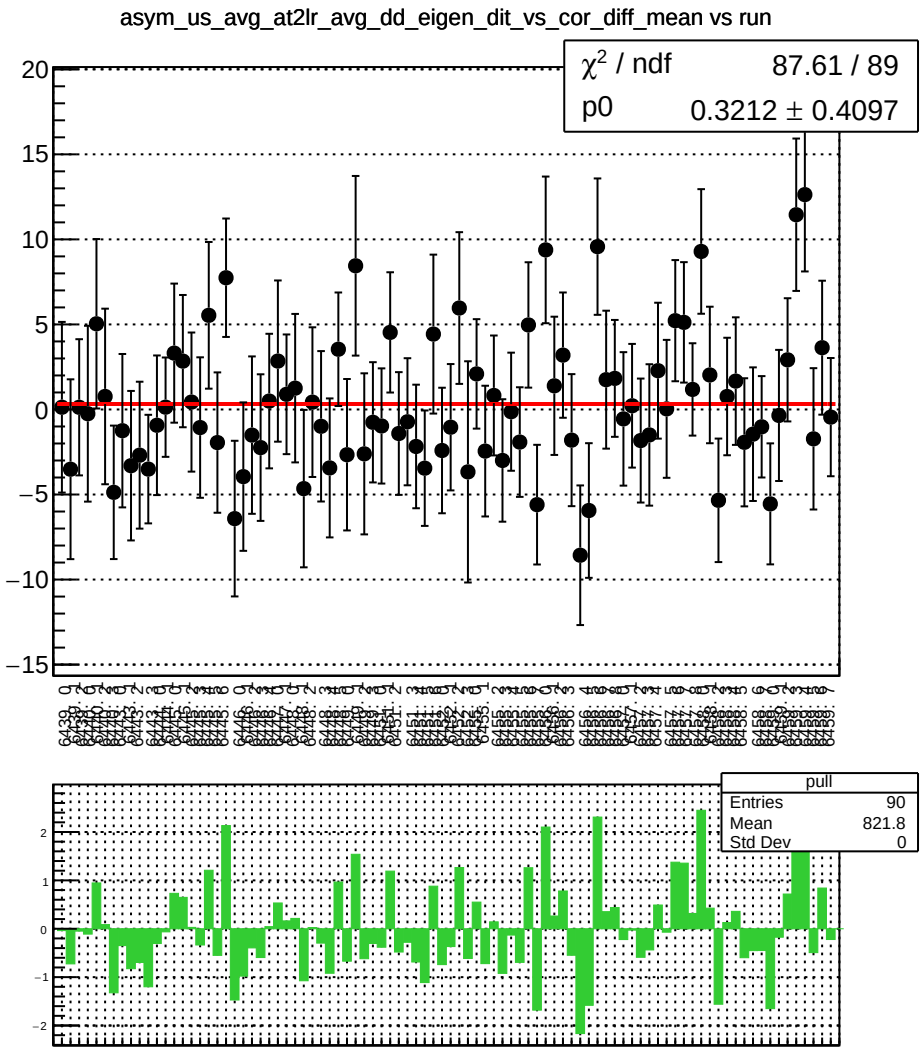

pull1D
Entries 90
Mean 0.005735
Std Dev 0.9867

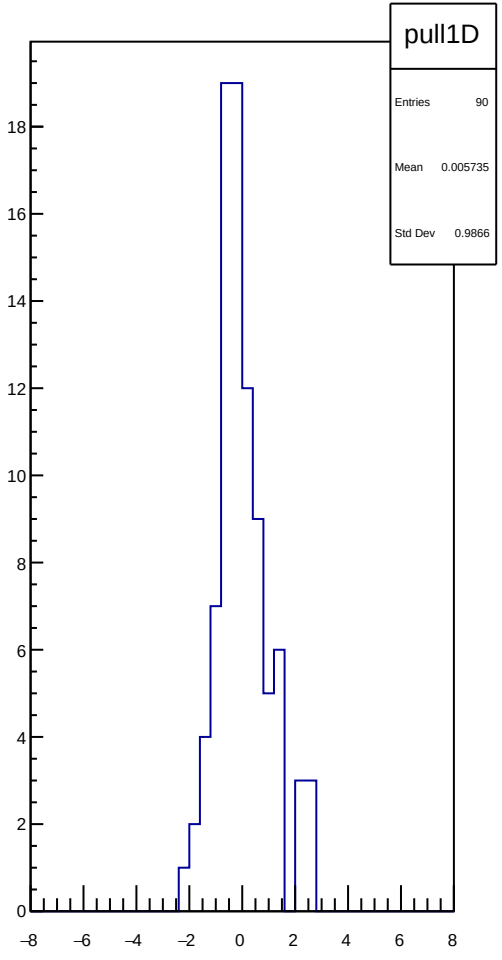

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.598e+04 / 89
p0 382.8 ± 0.2897
900
800
700
600
500
400
300

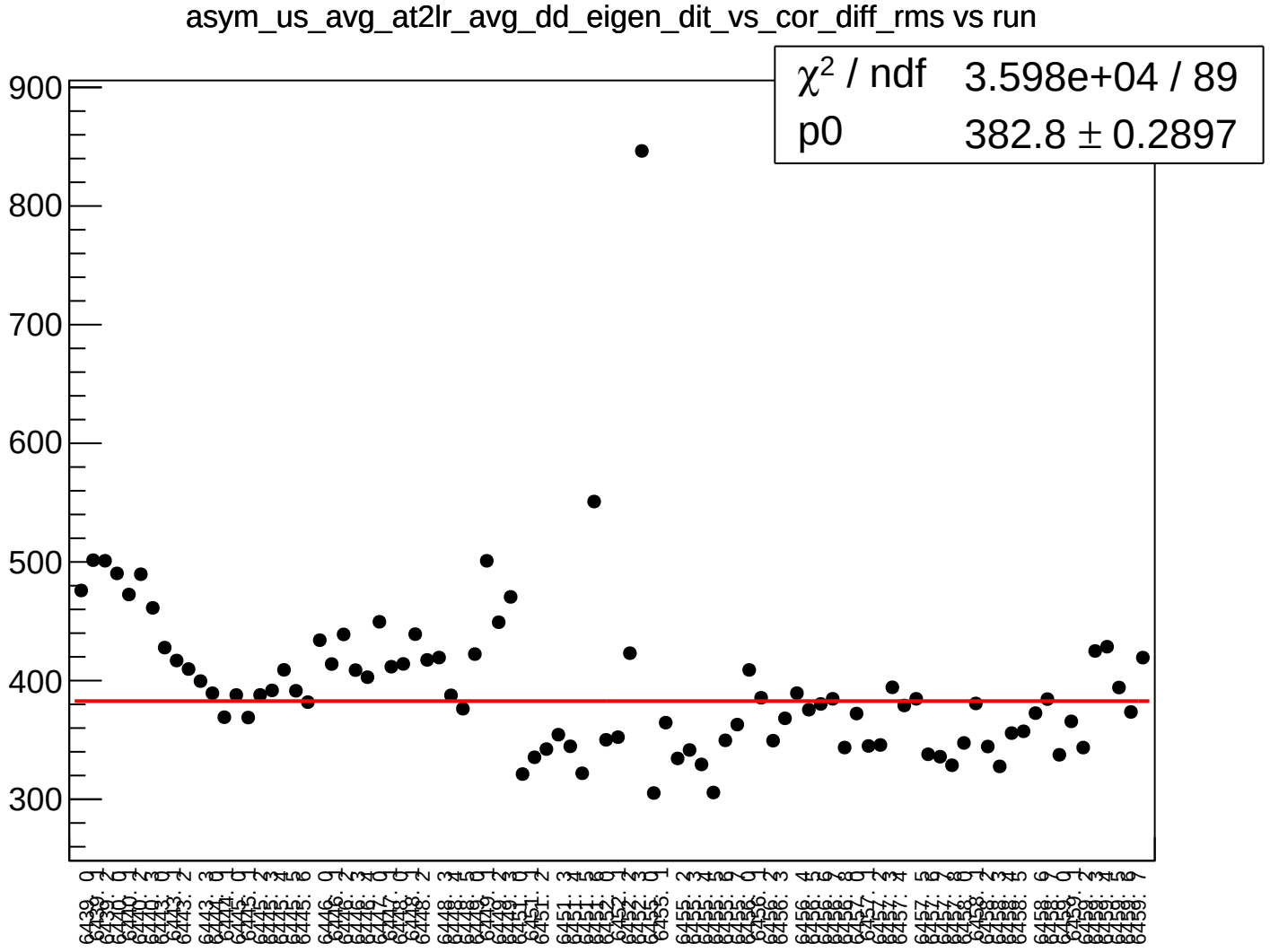

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 76.75 / 89
p0 −2.49e−05 ± 2.436e−05
pull
Entries 90
Mean 50.93
Std Dev 75.9

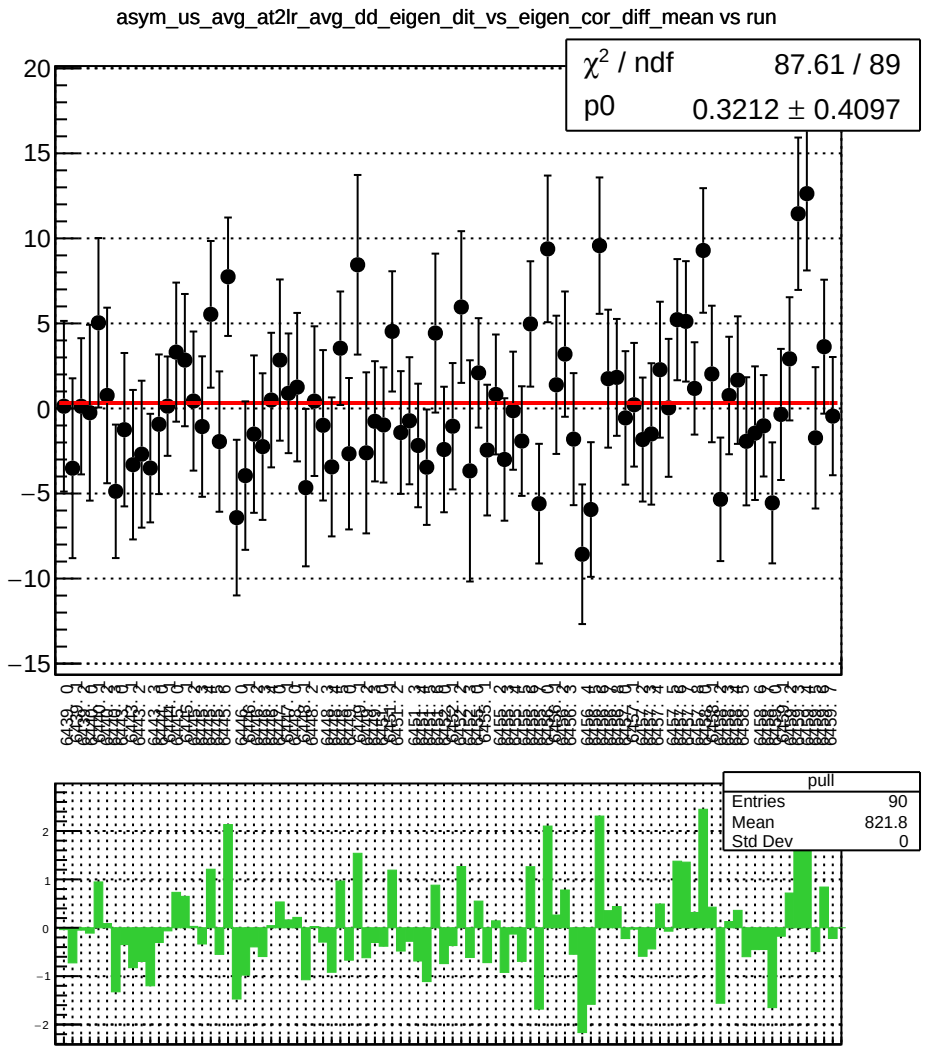

pull1D
Entries 90
Mean 0.01237
Std Dev 0.9234

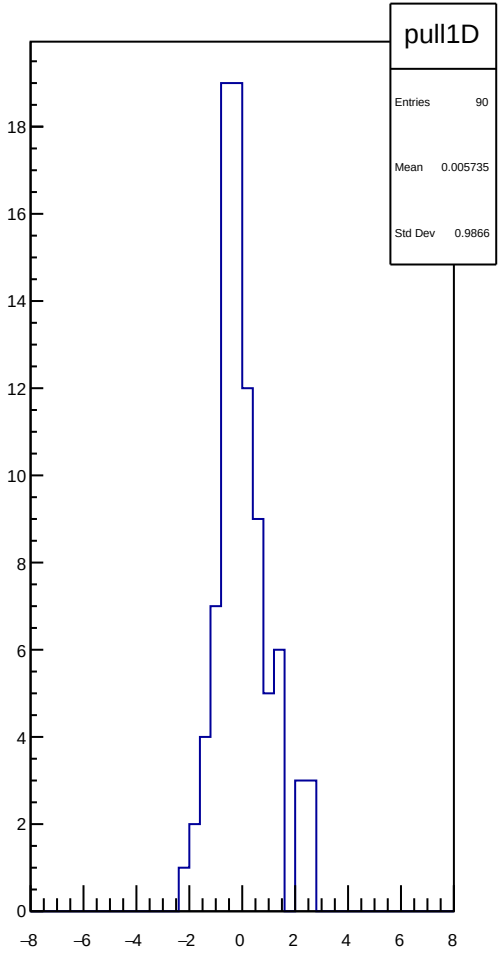

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.022e+04 / 89
p0 0.02293 ± 1.723e−05
0.028
0.027
0.026
0.025
0.024
0.023
0.022
0.021
0.02

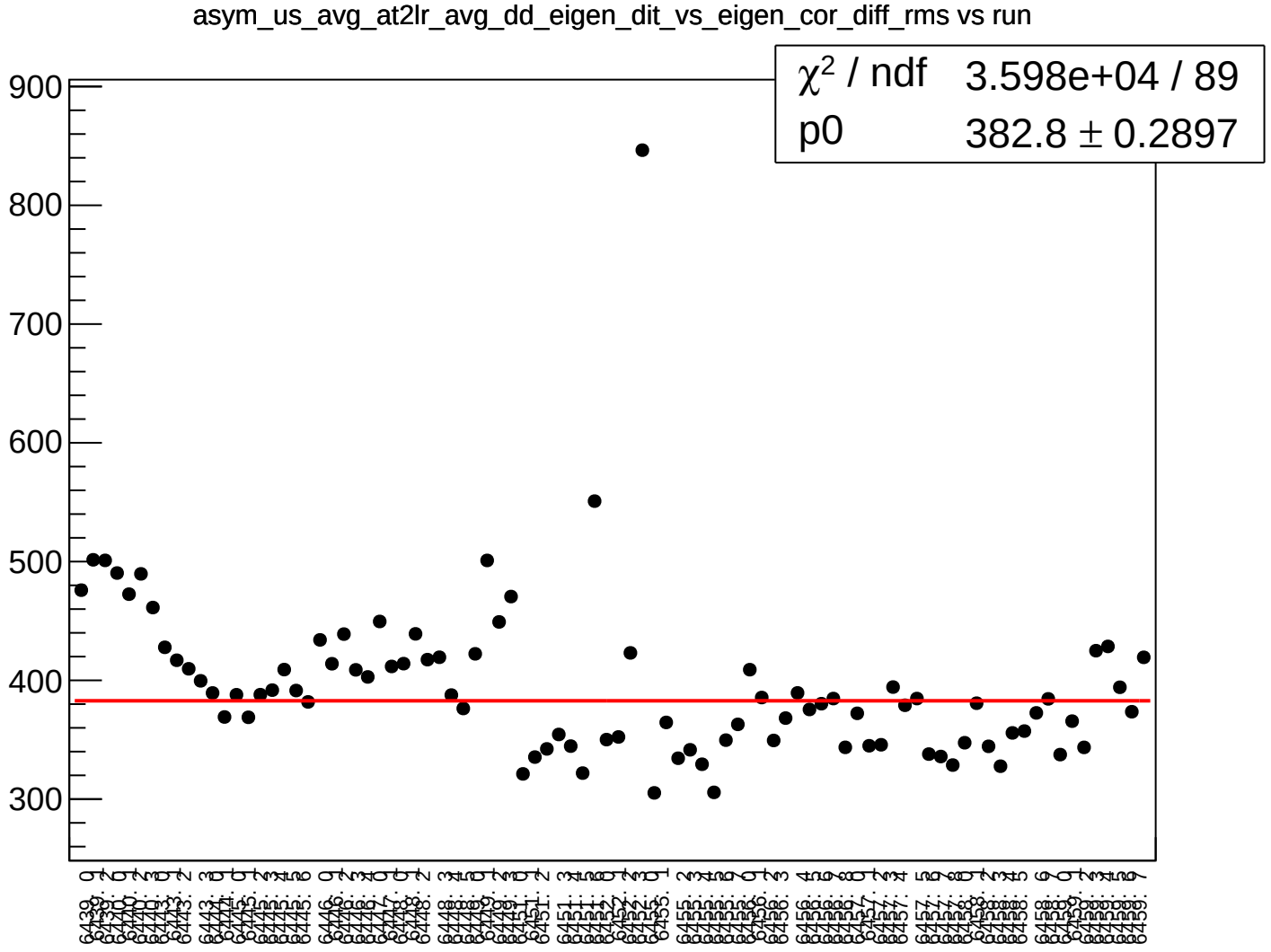

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.61 / 89
p0 0.3212 ± 0.4097
pull
Entries 90
Mean 821.8
Std Dev 0

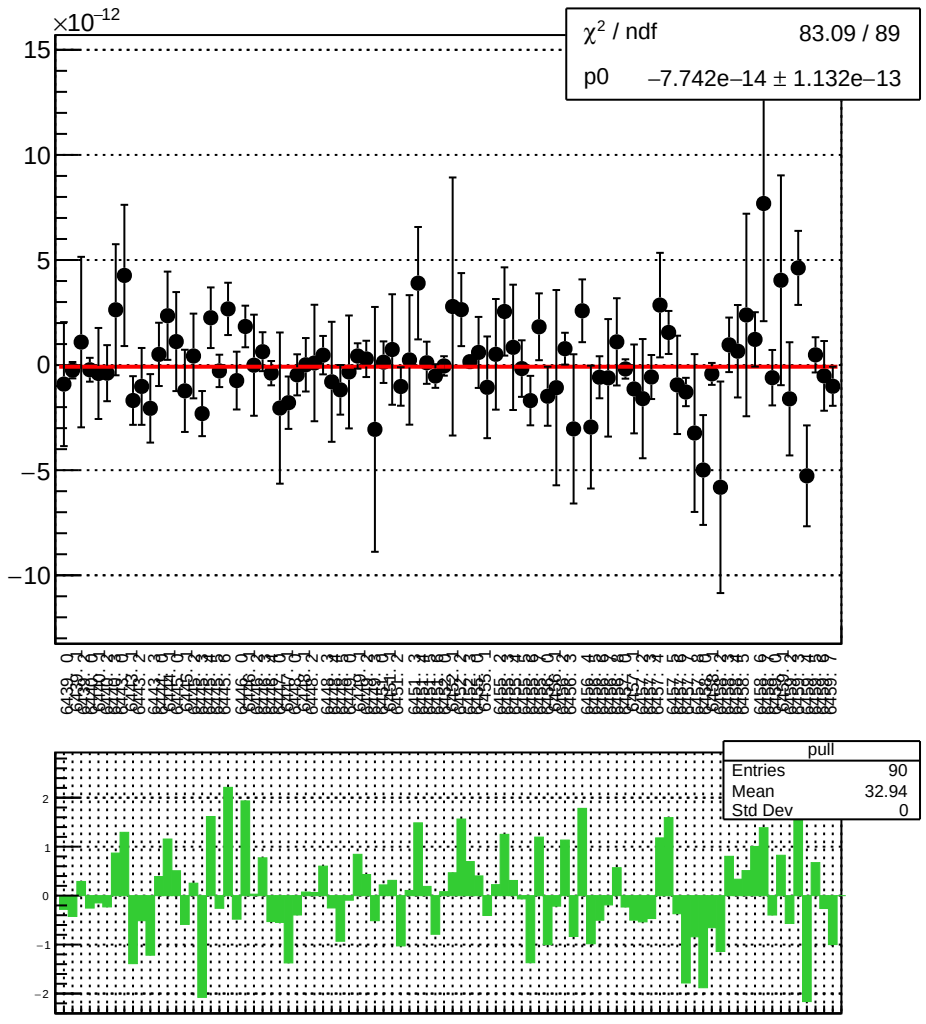

pull1D
Entries 90
Mean 0.005735
Std Dev 0.9866

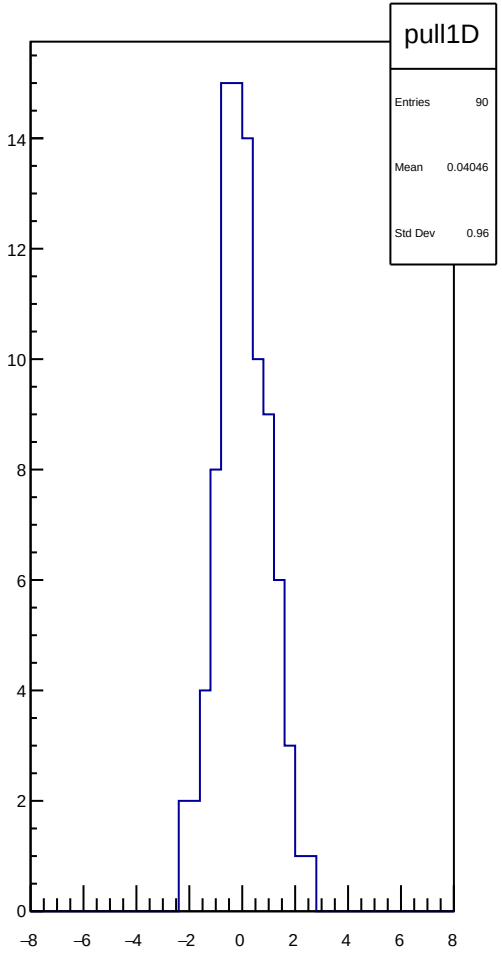

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.598e+04 / 89
p0 382.8 ± 0.2897
900
800
700
600
500
400
300

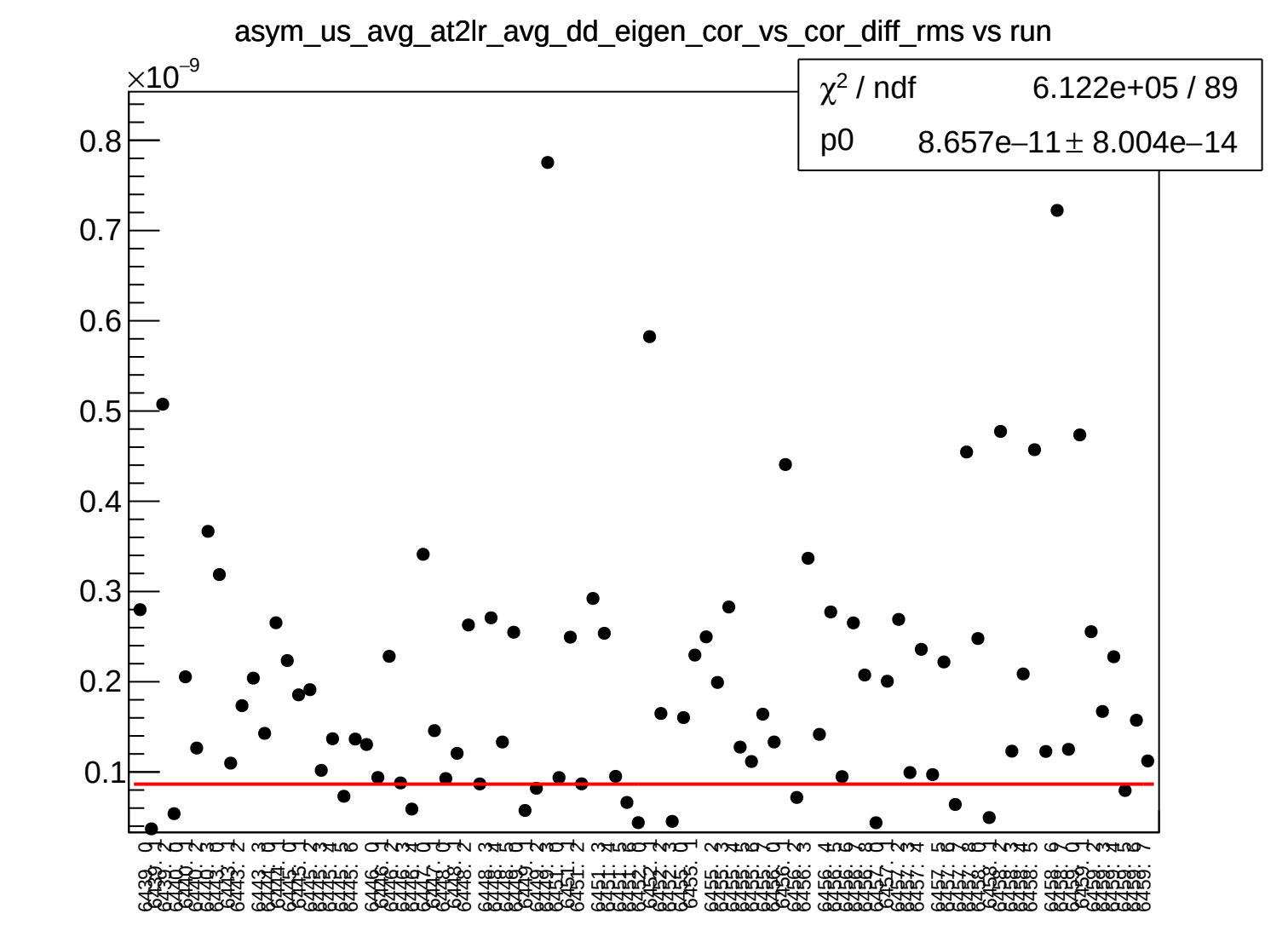

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.61 / 89
p0 0.3212 ± 0.4097
pull
Entries 90
Mean 821.8
Std Dev 0

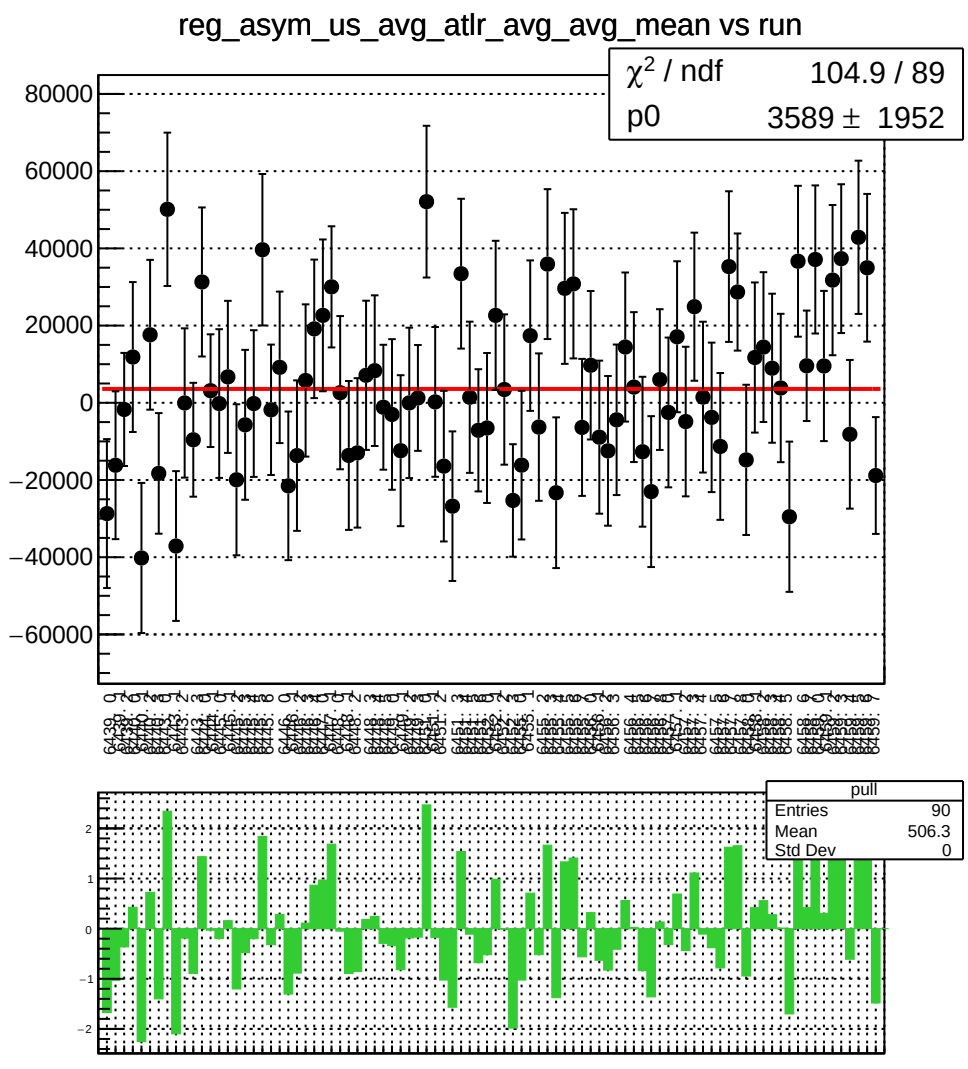

pull1D
Entries 90
Mean 0.005735
Std Dev 0.9866

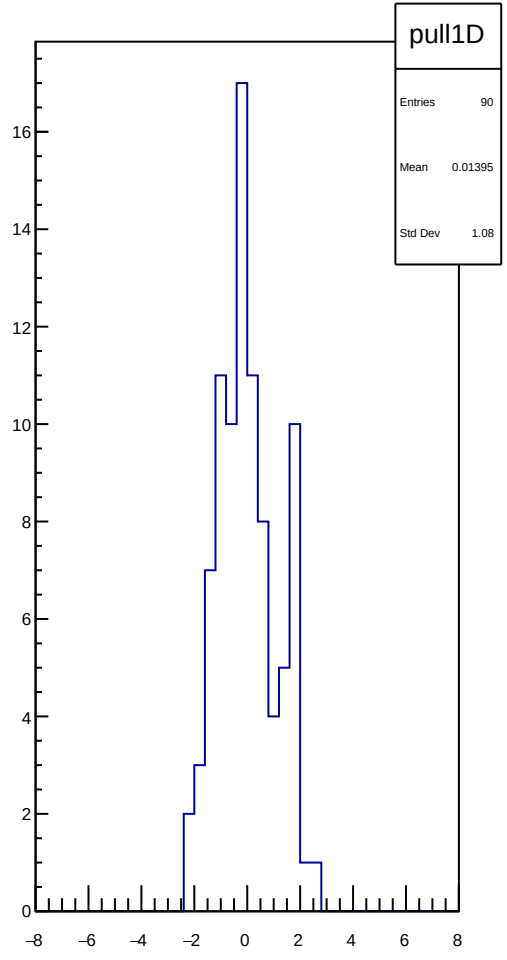

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.598e+04 / 89
p0 382.8 ± 0.2897
900
800
700
600
500
400
300

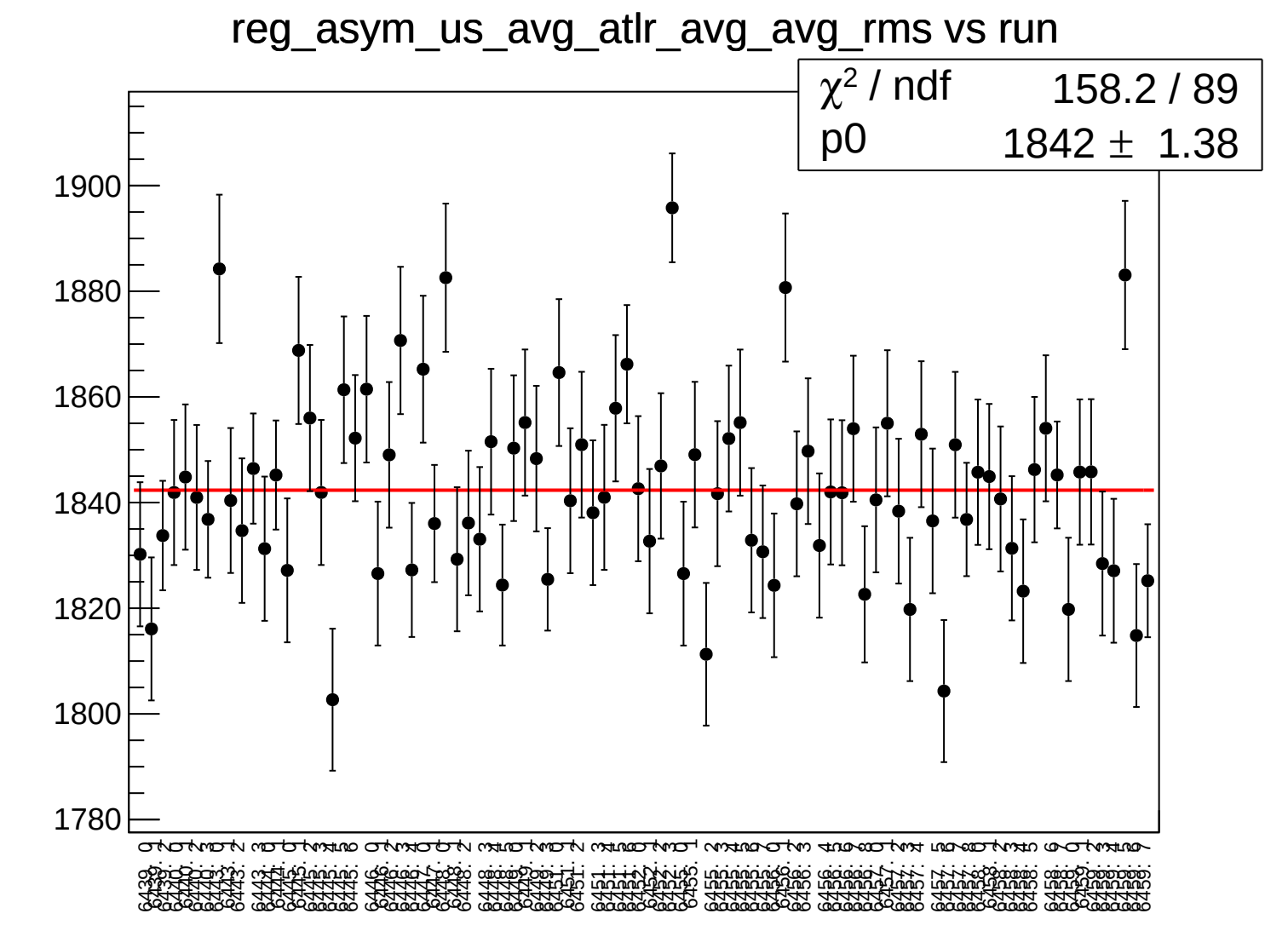

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.09 / 89
p0 −7.742e−14 ± 1.132e−13
pull
Entries 90
Mean 32.94
Std Dev 0

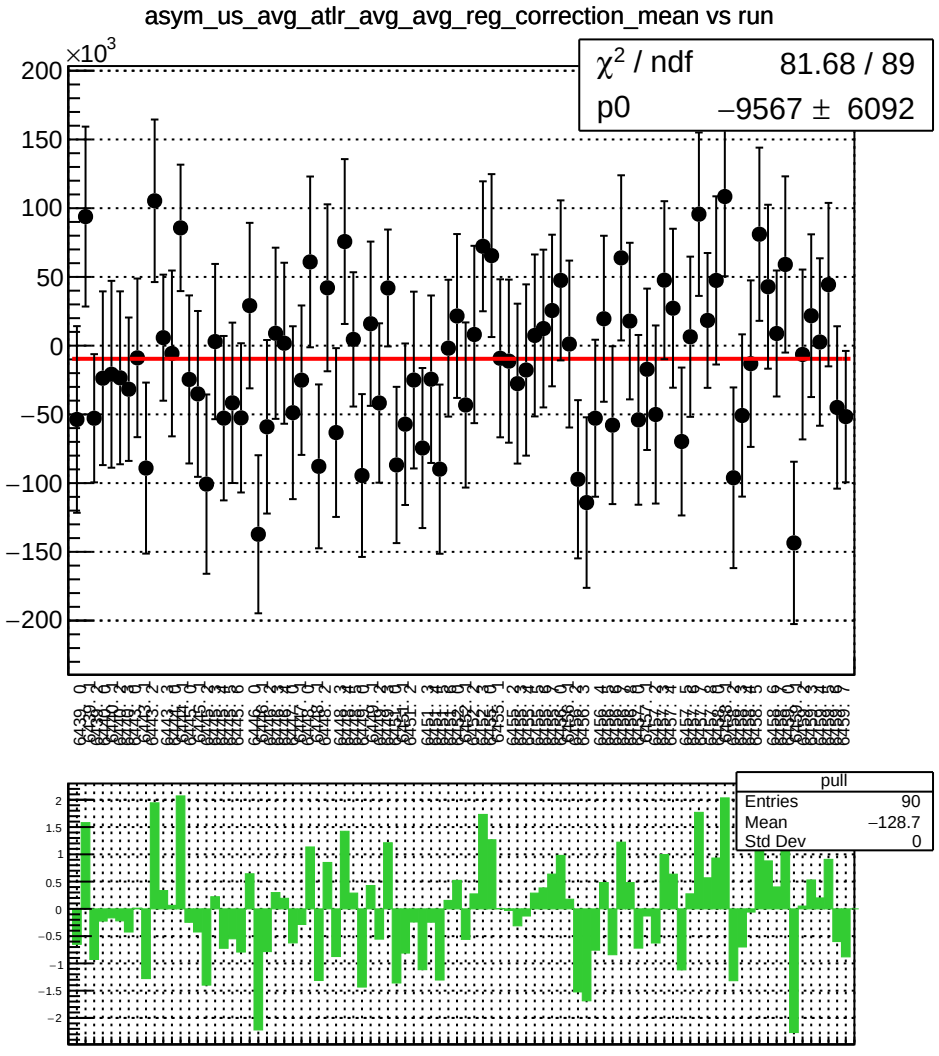

pull1D
Entries 90
Mean 0.04046
Std Dev 0.96

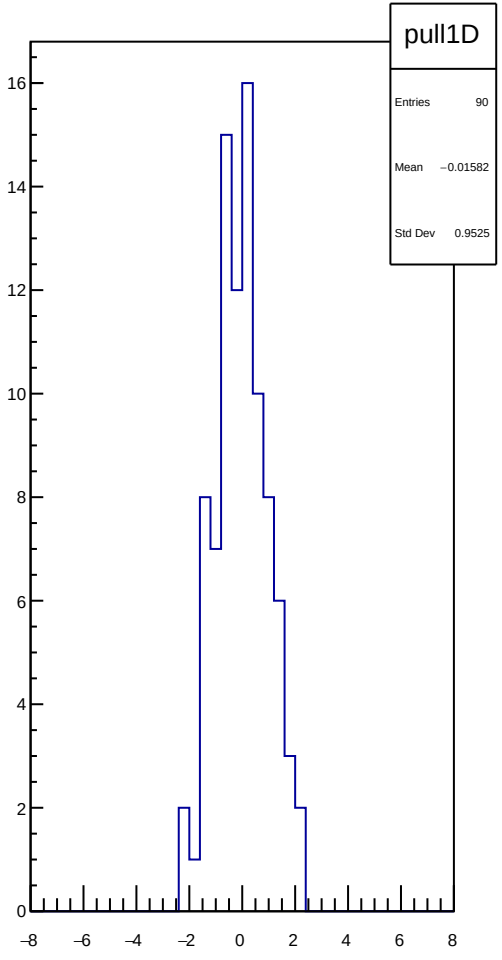

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.122e+05 / 89
p0 8.657e−11 ± 8.004e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

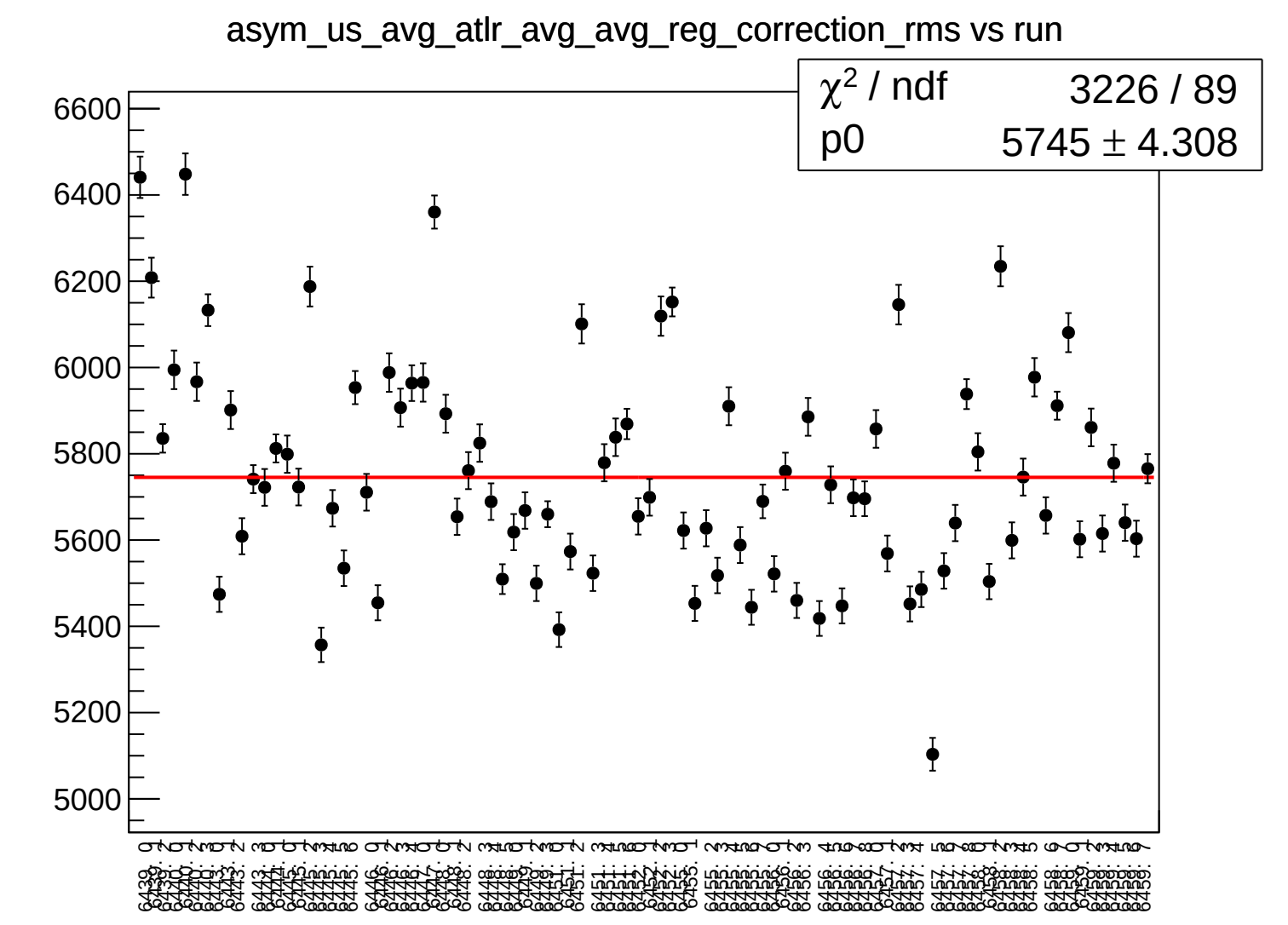

reg_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 104.9 / 89
p0 3589 ± 1952
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 506.3
Std Dev 0
2
1
0
−1
−2

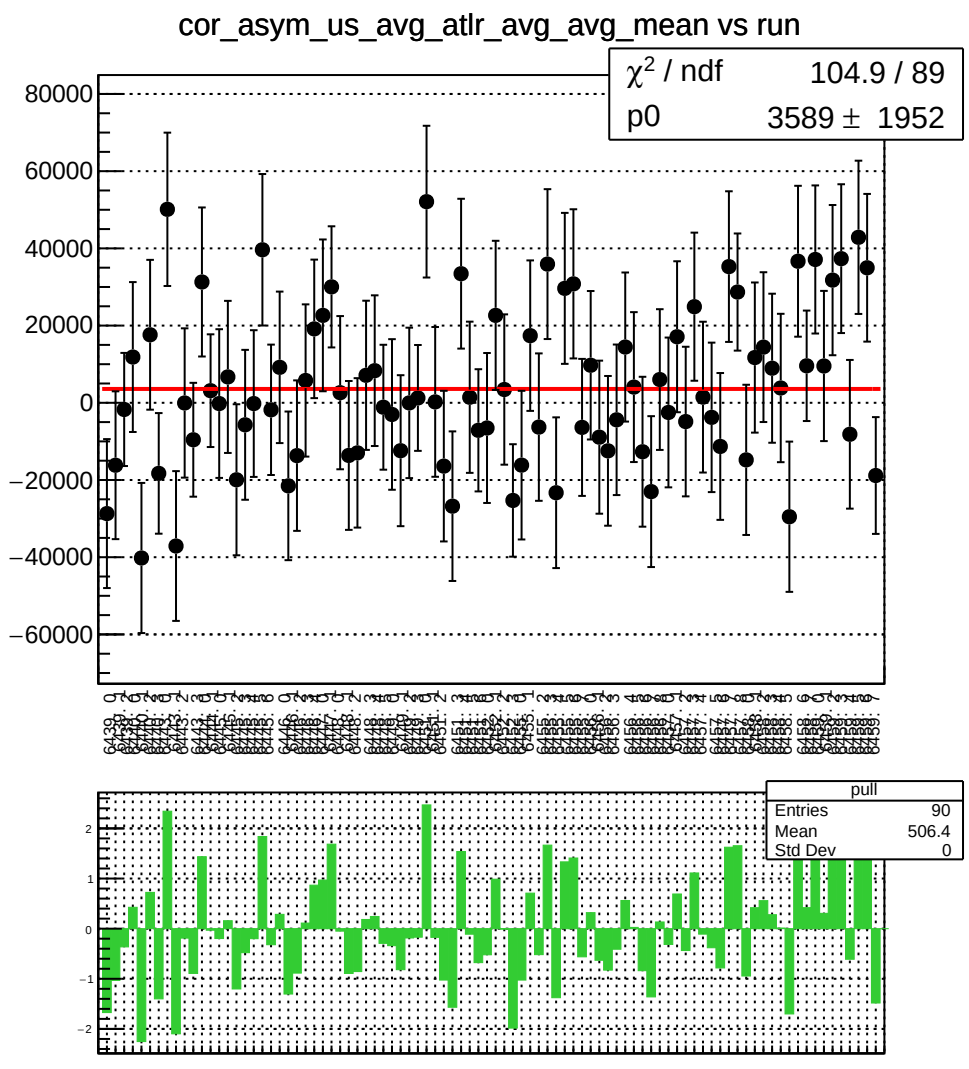

pull1D
Entries 90
Mean 0.01395
Std Dev 1.08
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

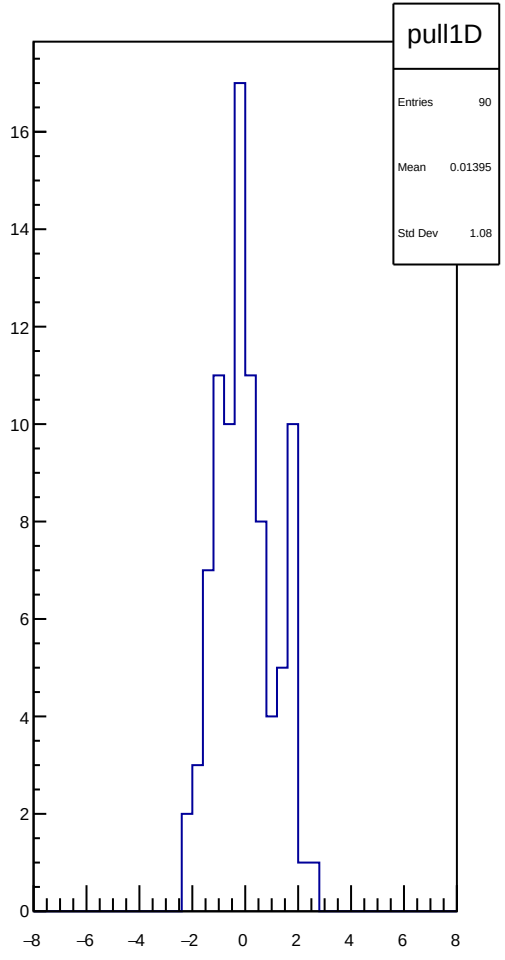

reg_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 158.2 / 89
p0 1842 ± 1.38
1900
1880
1860
1840
1820
1800
1780

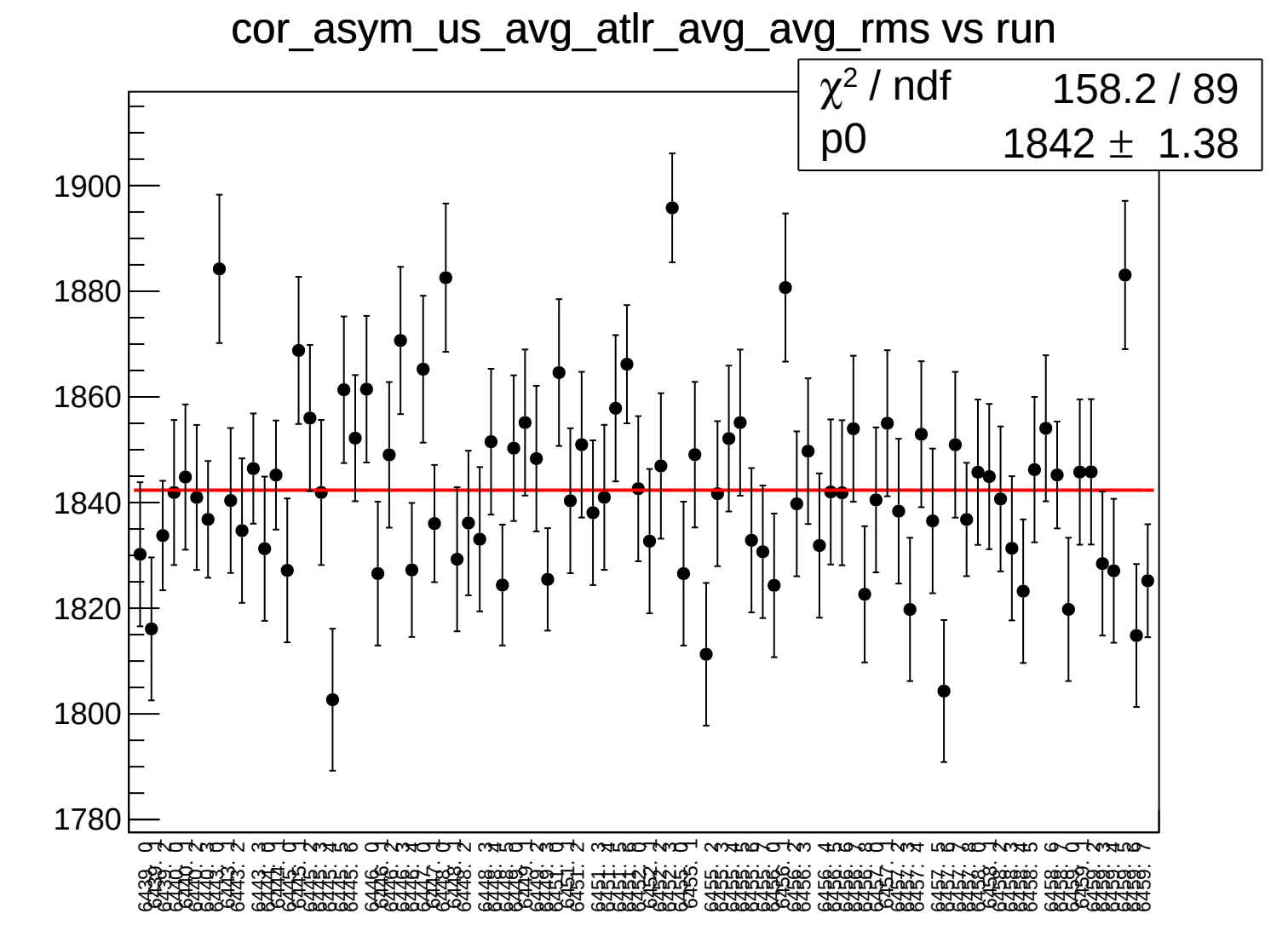

asym_us_avg_atlr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 81.68 / 89
p0 −9567 ± 6092
pull
Entries 90
Mean −128.7
Std Dev 0

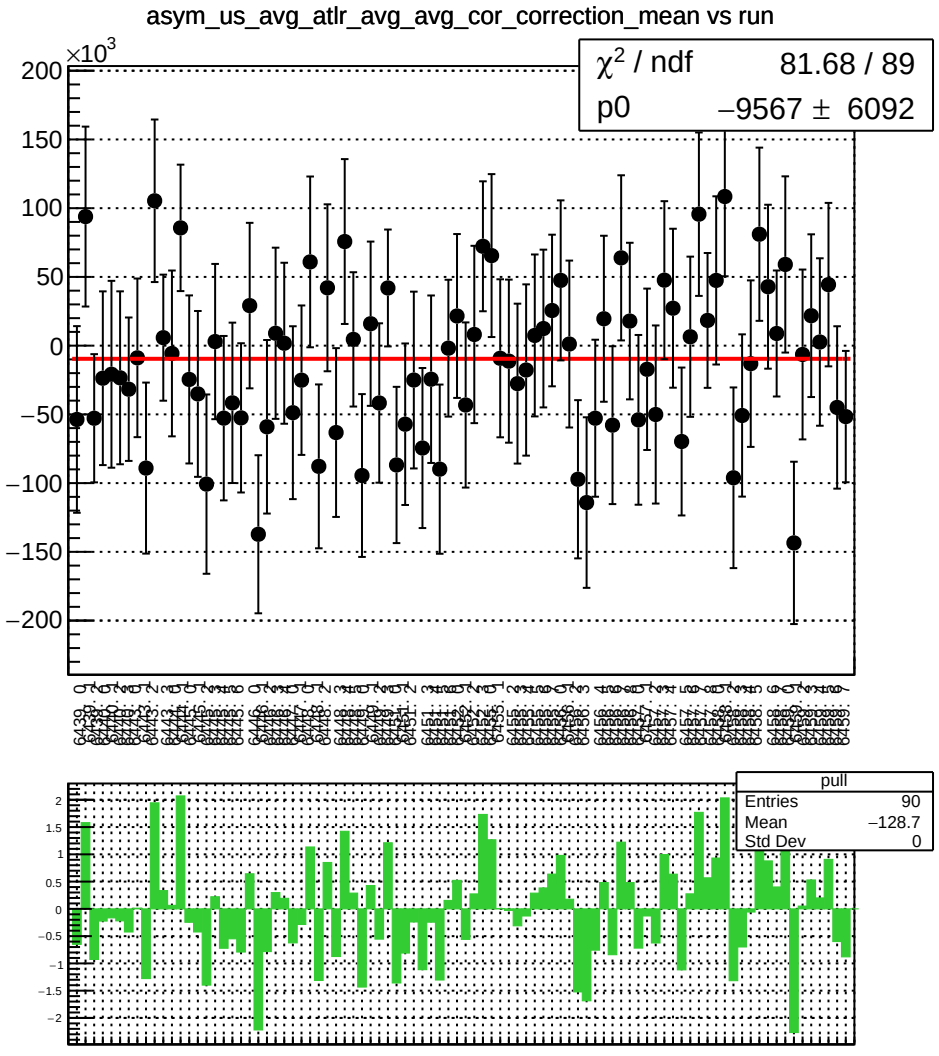

pull1D
Entries 90
Mean −0.01582
Std Dev 0.9525

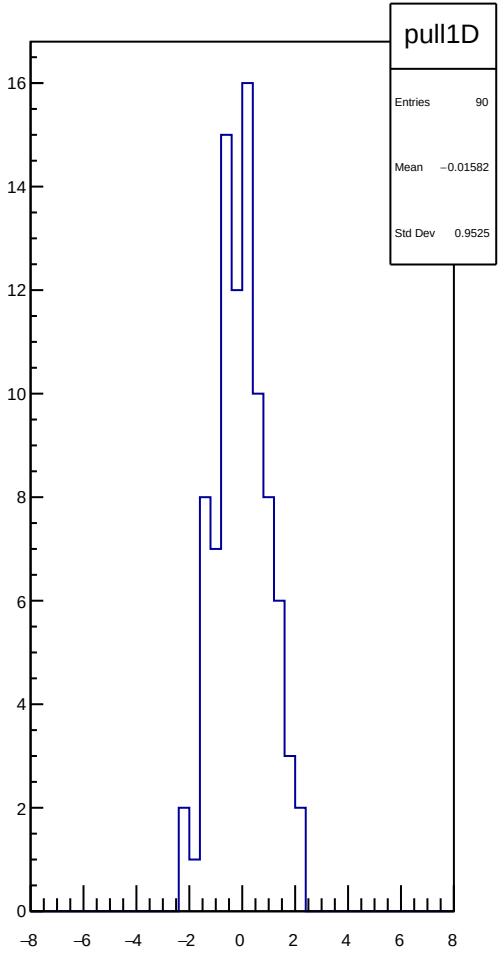

asym_us_avg_atlr_avg_avg_reg_correction_rms vs run
χ² / ndf 3226 / 89
p0 5745 ± 4.308
6600
6400
6200
6000
5800
5600
5400
5200
5000

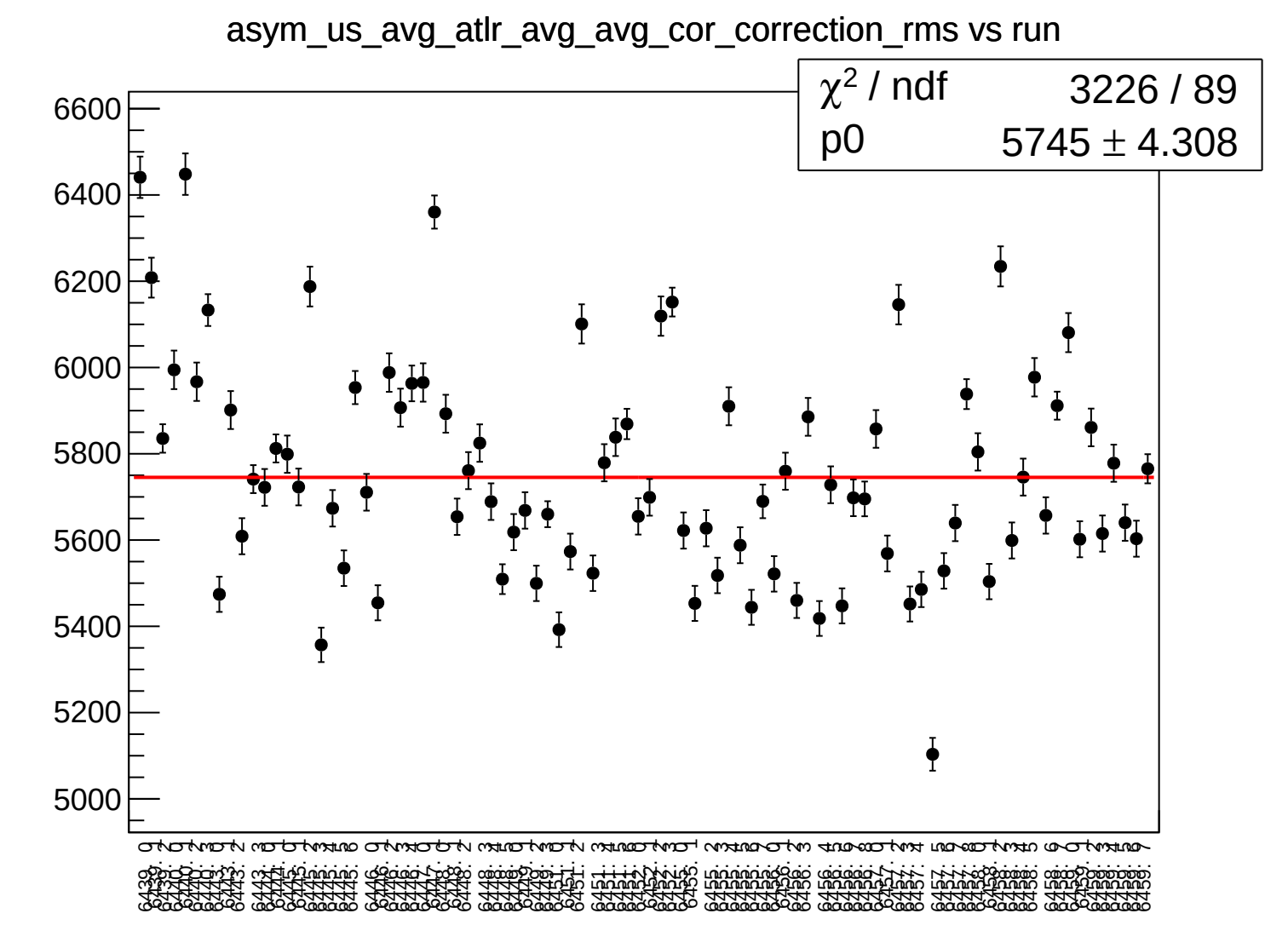

cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 104.9 / 89
p0 3589 ± 1952
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 506.4
Std Dev 0
2
1
0
−1
−2

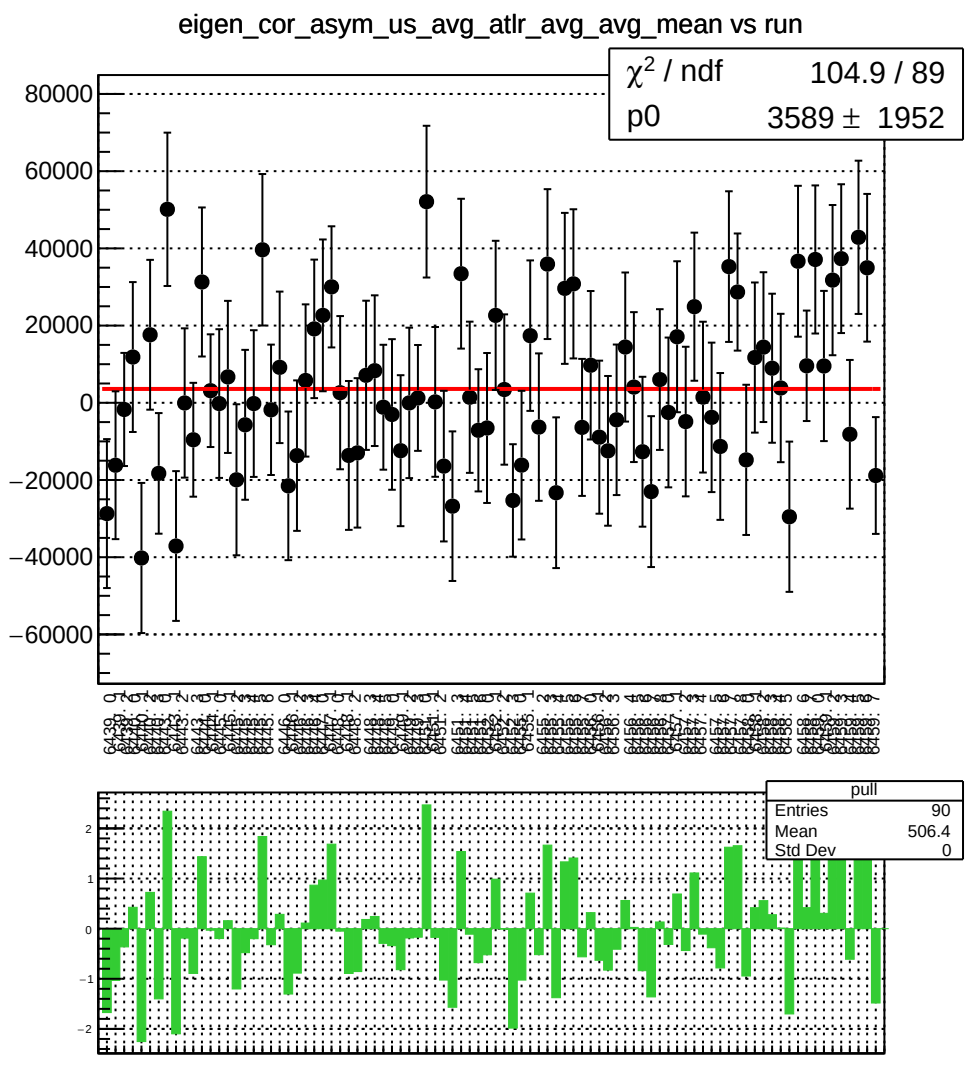

pull1D
Entries 90
Mean 0.01395
Std Dev 1.08
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

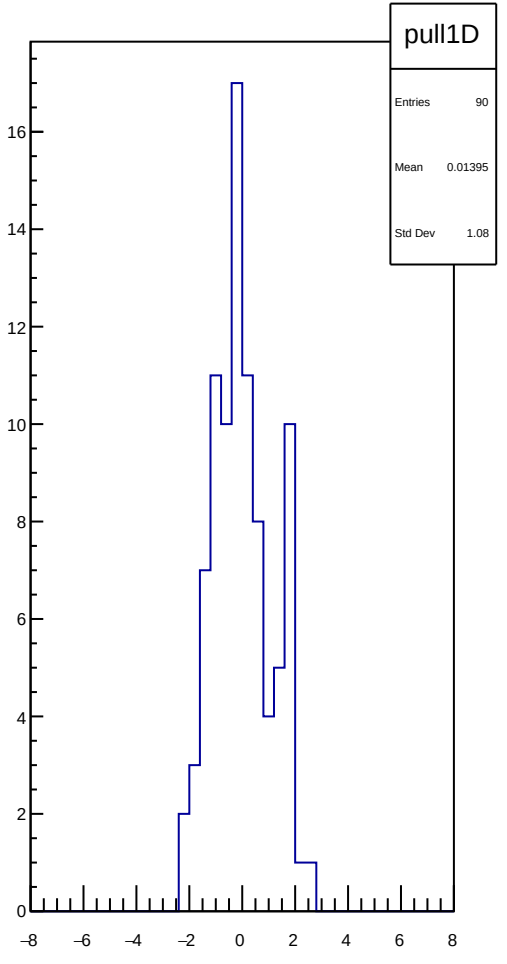

cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 158.2 / 89
p0 1842 ± 1.38
1900
1880
1860
1840
1820
1800
1780

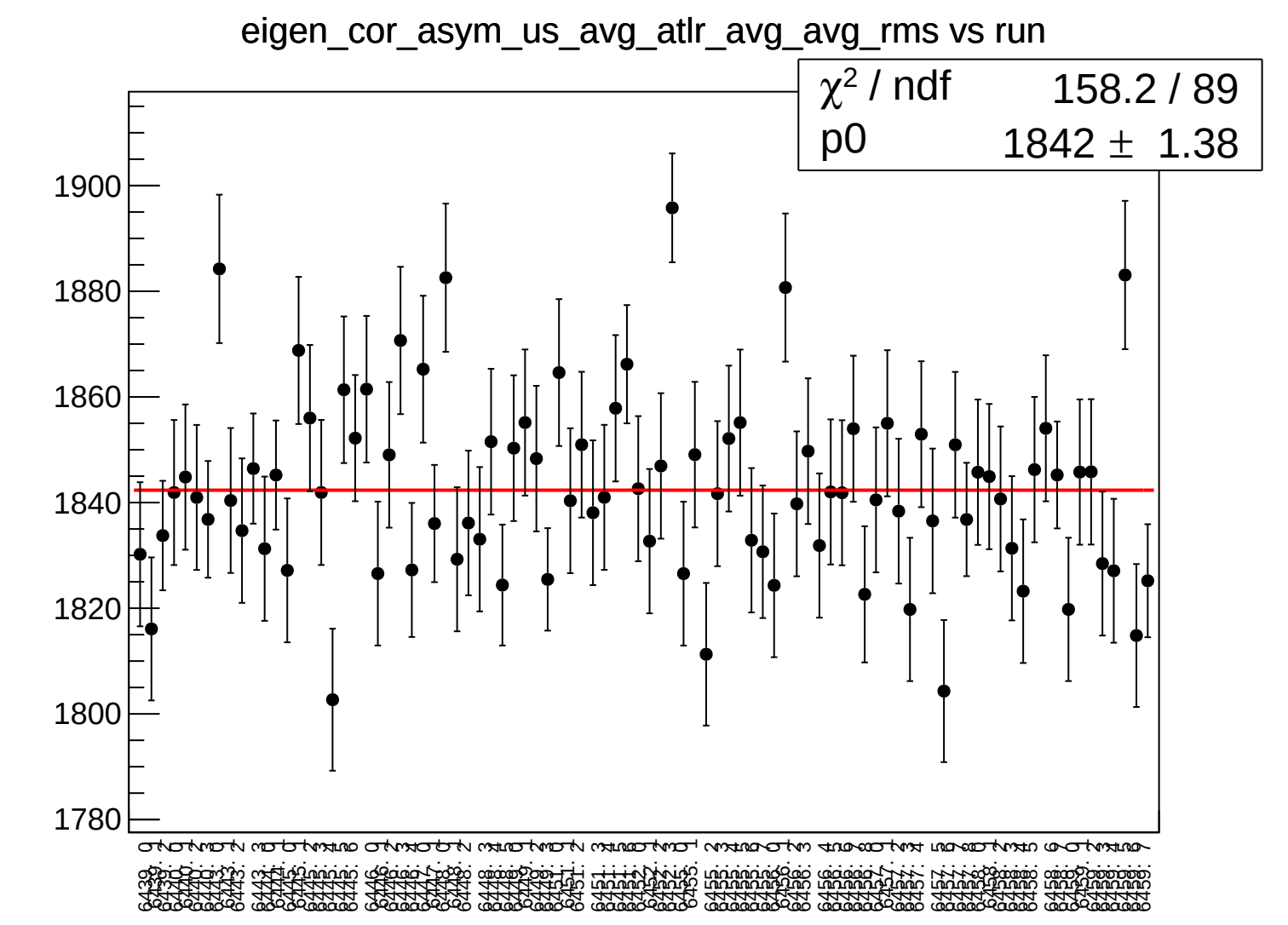

asym_us_avg_atlr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 81.68 / 89
p0 −9567 ± 6092
pull
Entries 90
Mean −128.7
Std Dev 0

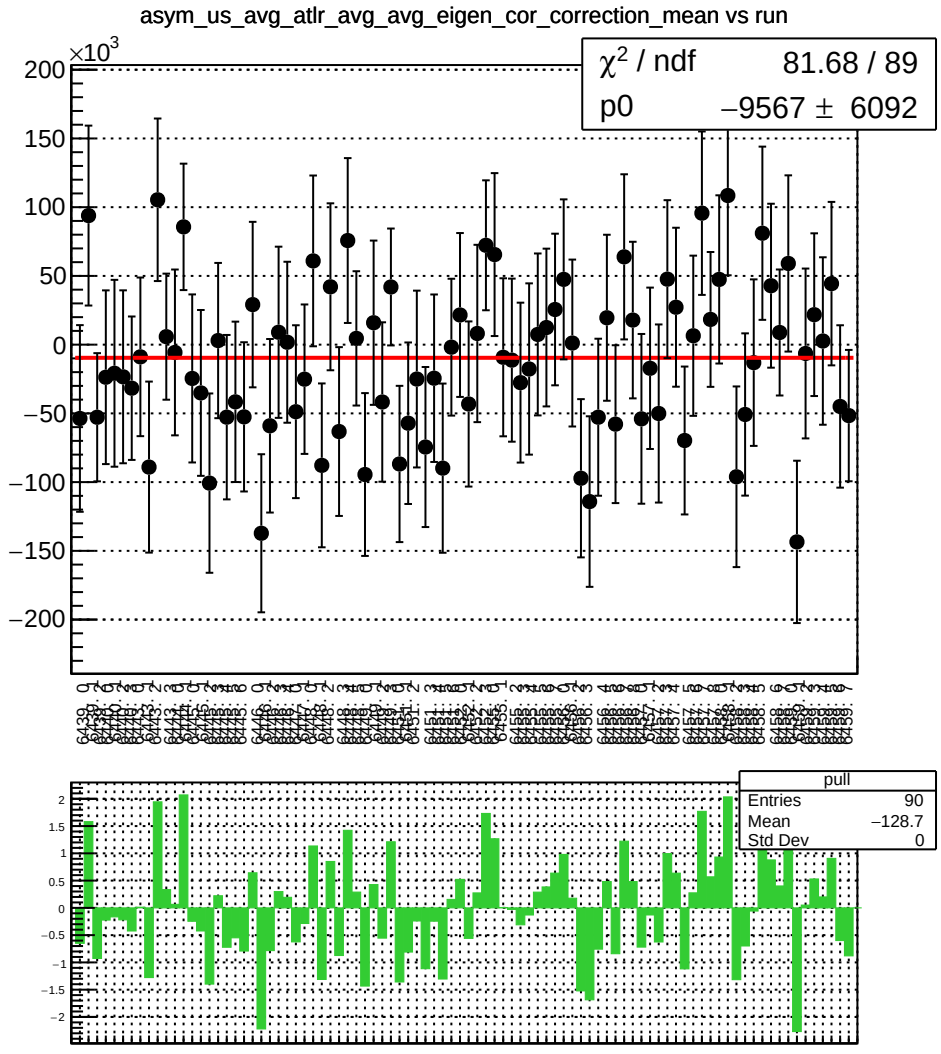

pull1D
Entries 90
Mean −0.01582
Std Dev 0.9525

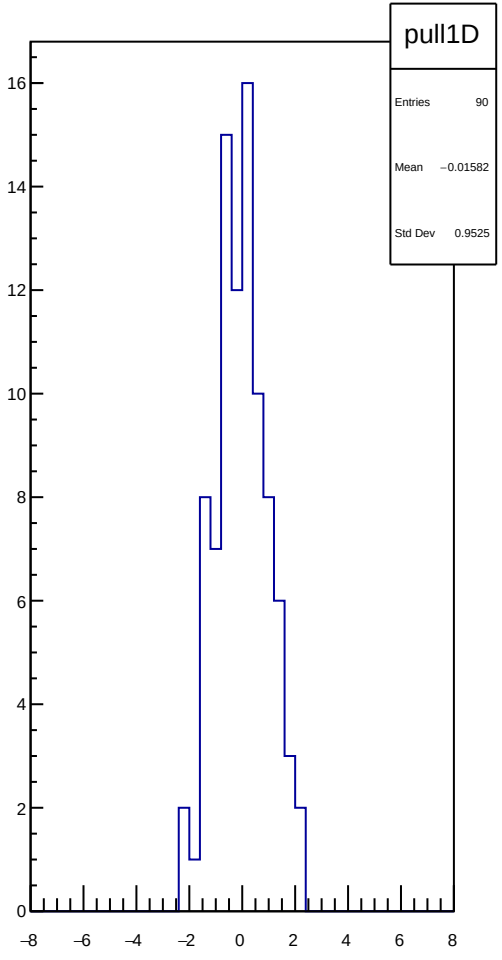

asym_us_avg_atlr_avg_avg_cor_correction_rms vs run
χ^2 / ndf 3226 / 89
p0 5745 ± 4.308
6600
6400
6200
6000
5800
5600
5400
5200
5000

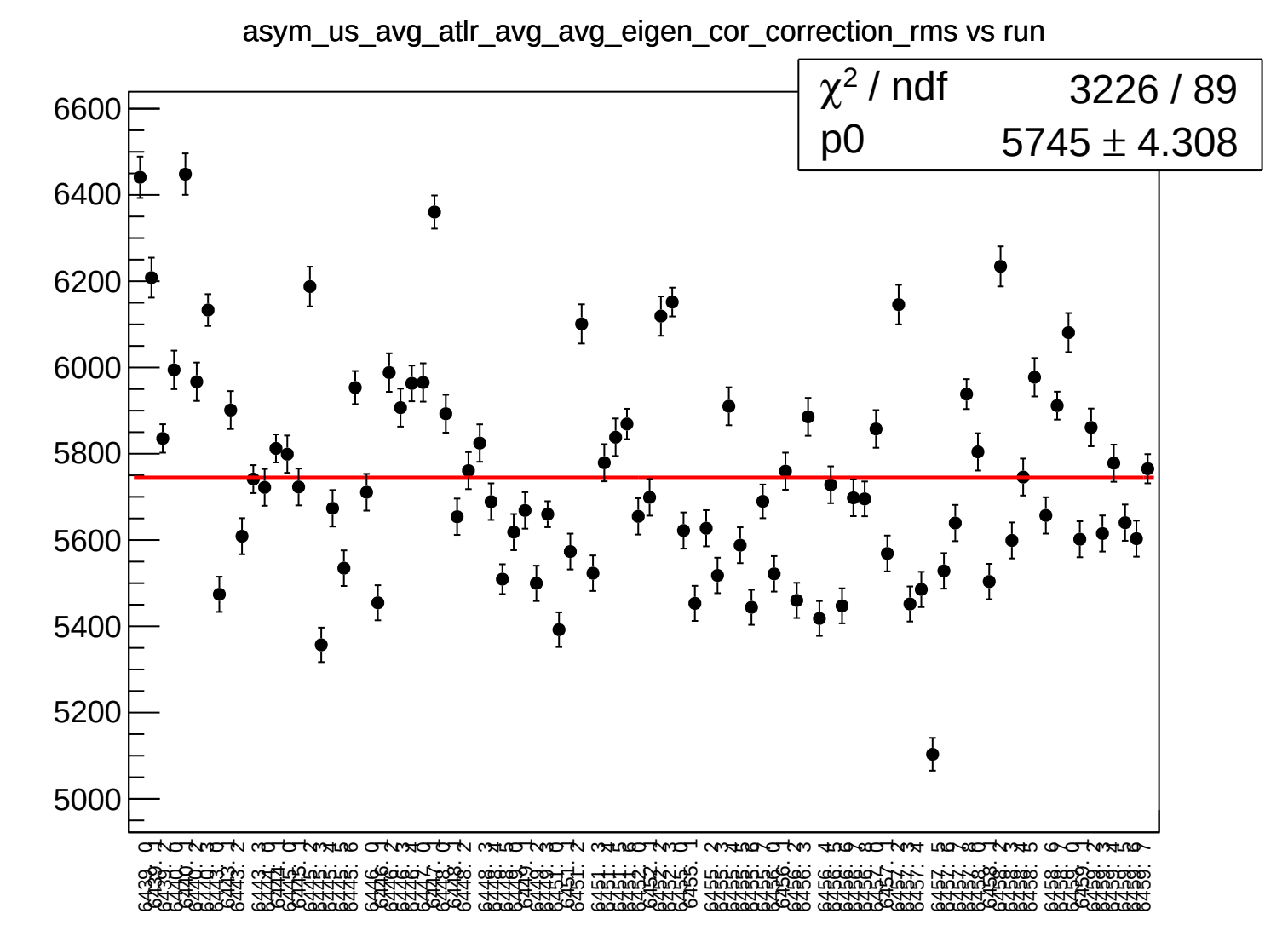

eigen_cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 104.9 / 89
p0 3589 ± 1952
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 506.4
Std Dev 0
2
1
0
−1
−2

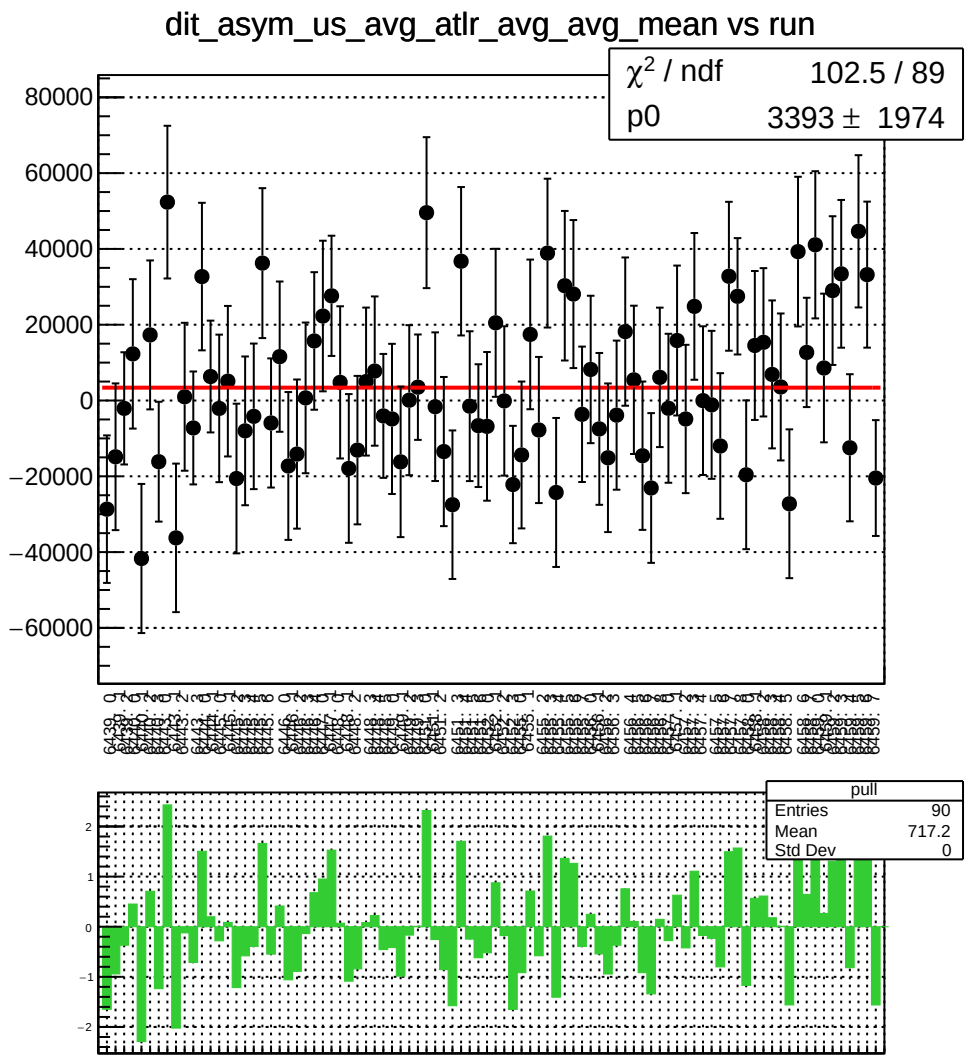

pull1D
Entries 90
Mean 0.01395
Std Dev 1.08
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

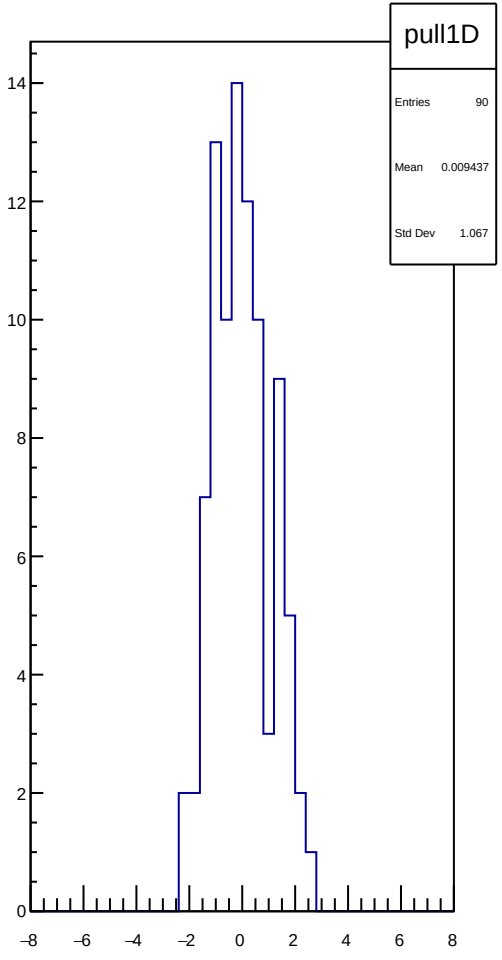

eigen_cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 158.2 / 89
p0 1842 ± 1.38
1900
1880
1860
1840
1820
1800
1780

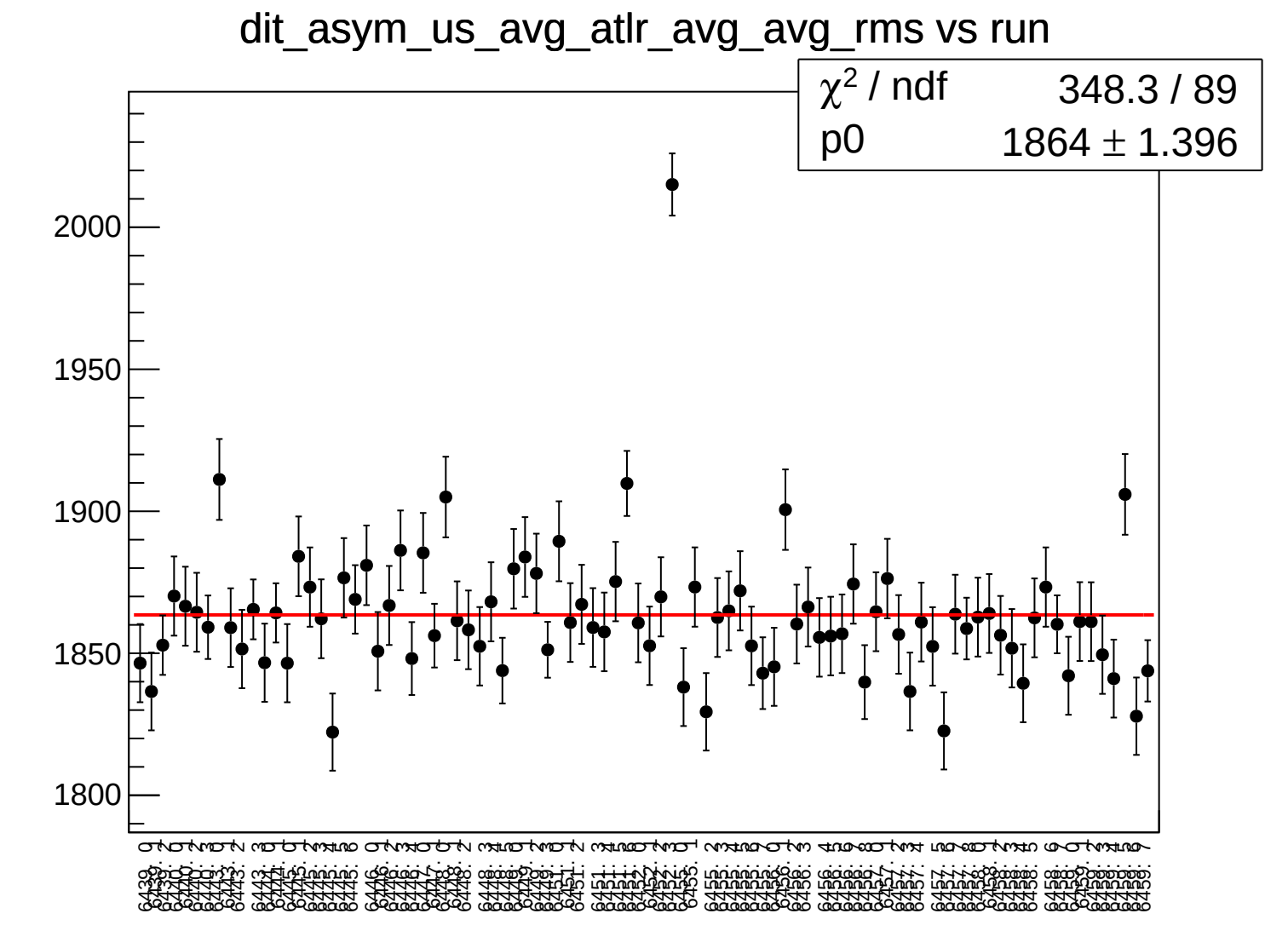

asym_us_avg_atlr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 81.68 / 89
p0 −9567 ± 6092
pull
Entries 90
Mean −128.7
Std Dev 0

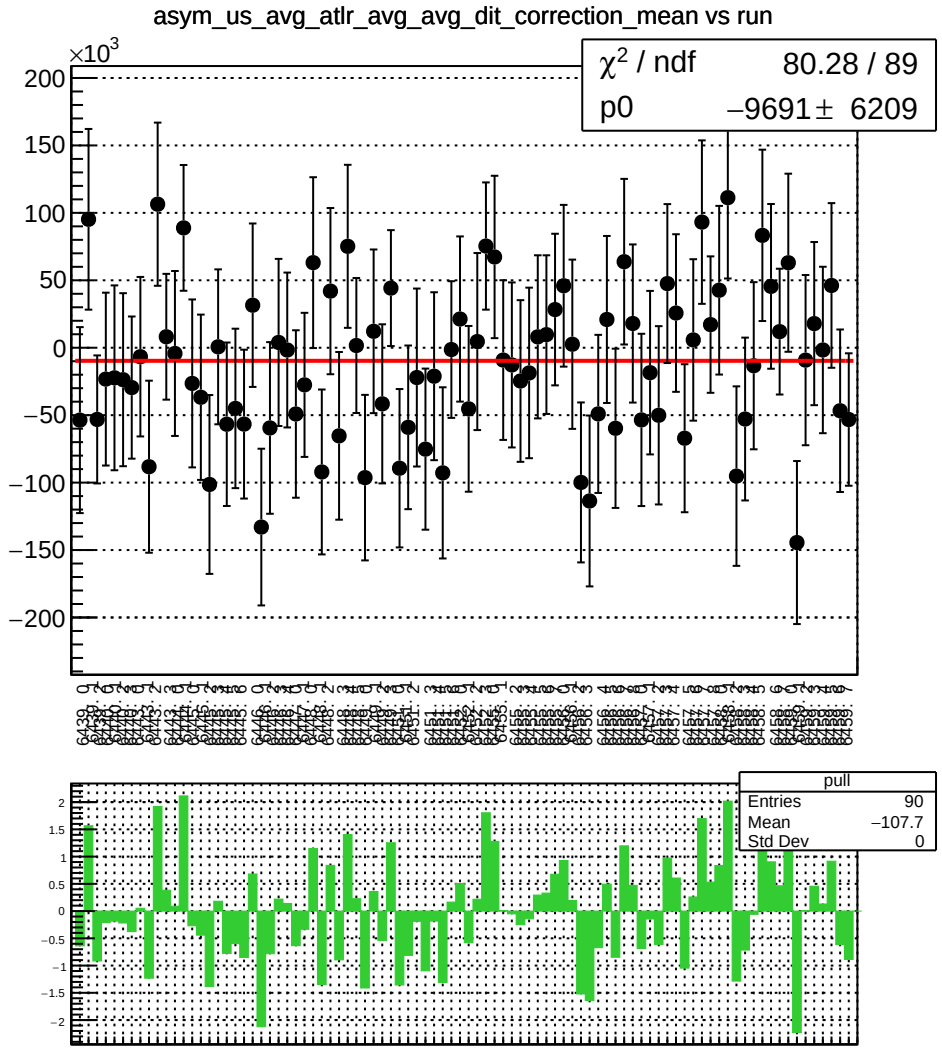

pull1D
Entries 90
Mean −0.01582
Std Dev 0.9525

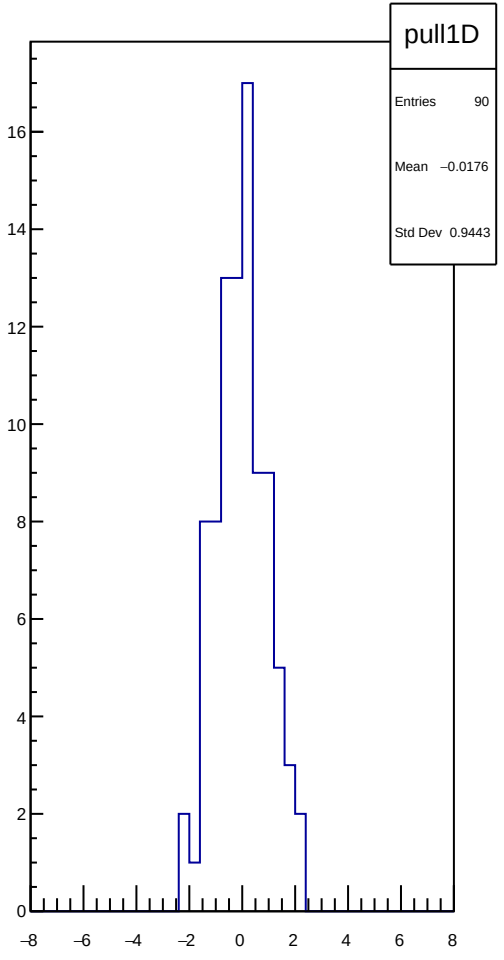

asym_us_avg_atlr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 3226 / 89
p0 5745 ± 4.308
6600
6400
6200
6000
5800
5600
5400
5200
5000

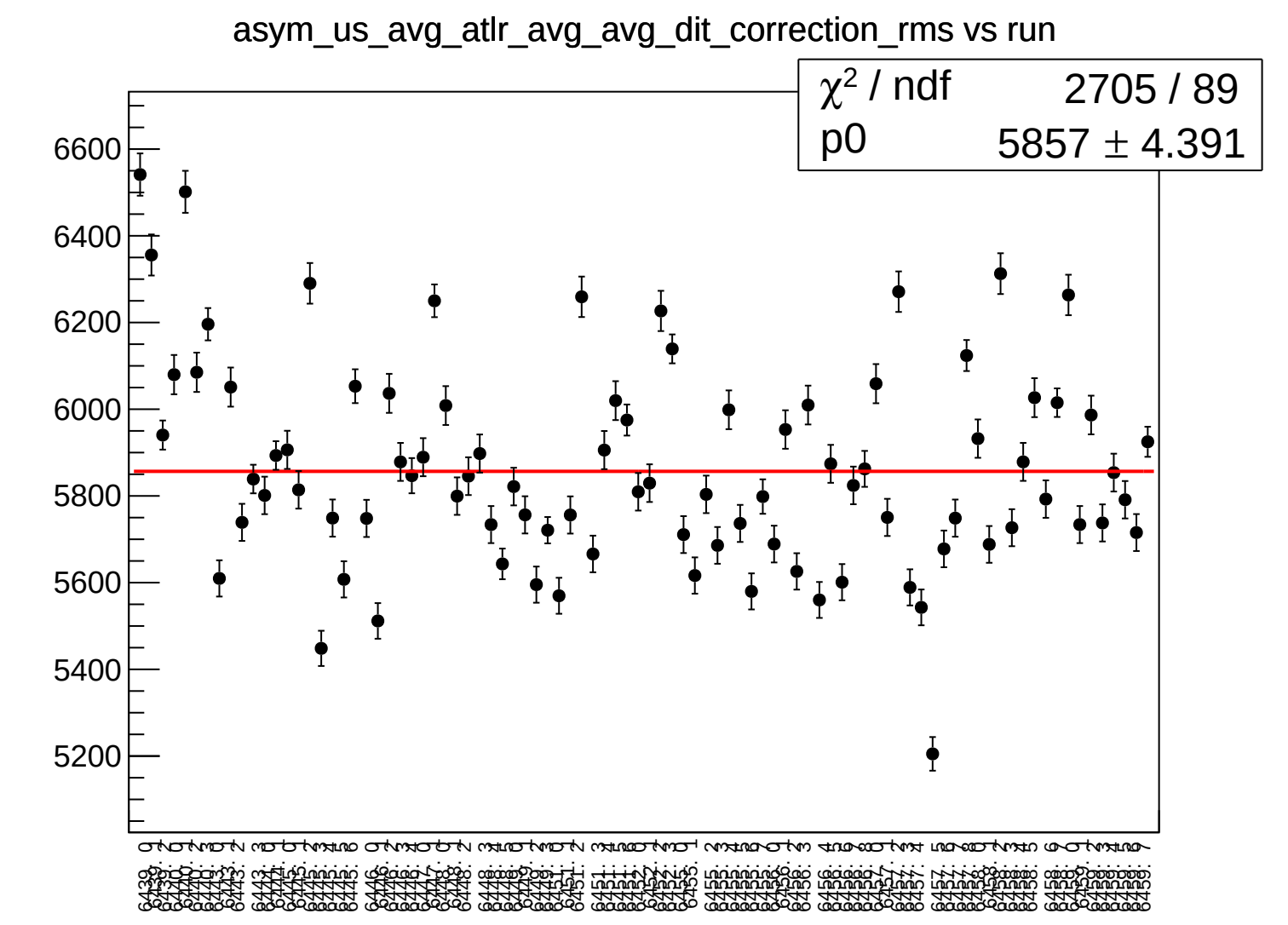

dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 102.5 / 89
p0 3393 ± 1974
pull
Entries 90
Mean 717.2
Std Dev 0

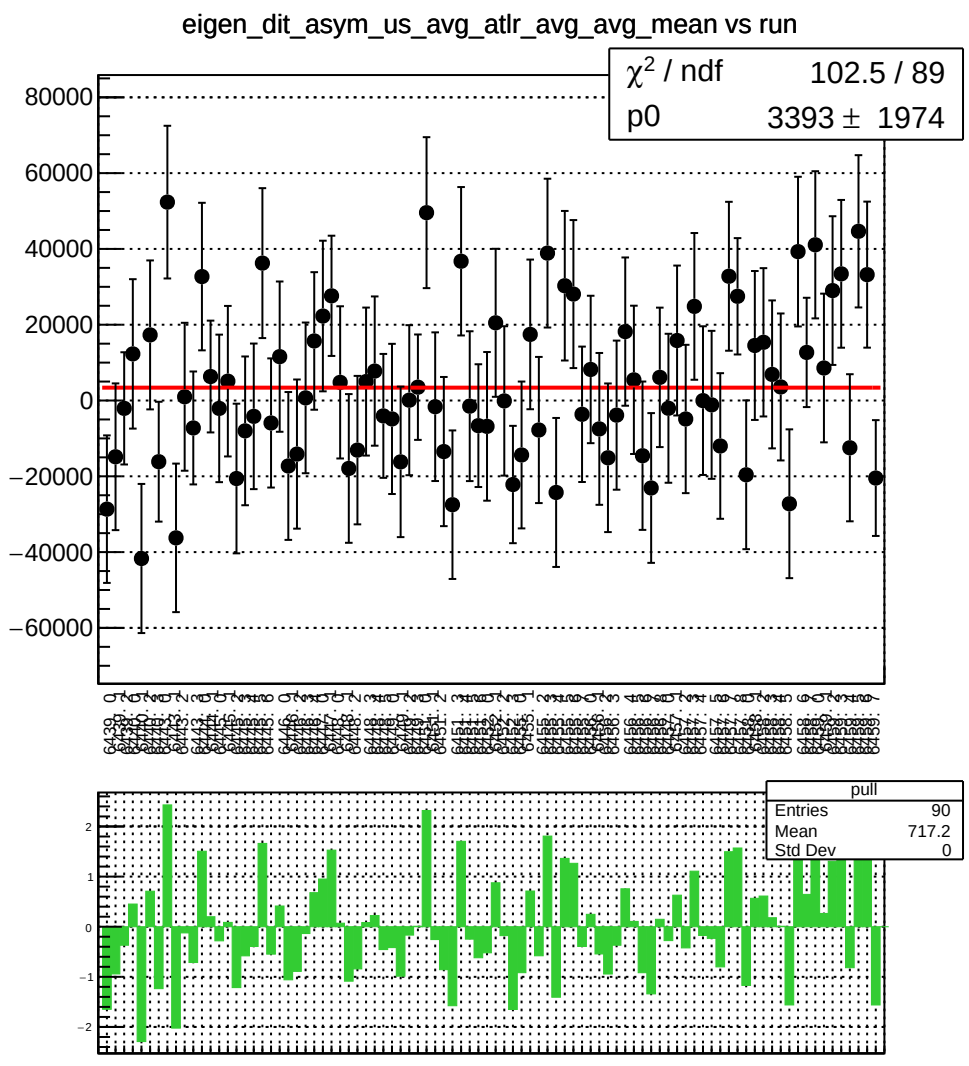

pull1D
Entries 90
Mean 0.009437
Std Dev 1.067

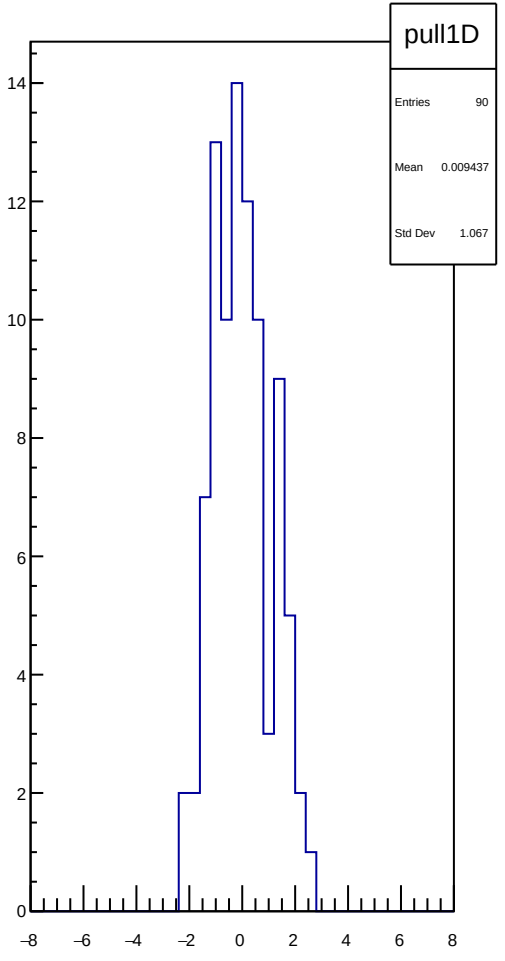

dit_asym_us_avg_atlr_avg_avg_rms vs run
χ^2 / ndf 348.3 / 89
p0 1864 ± 1.396
2000
1950
1900
1850
1800

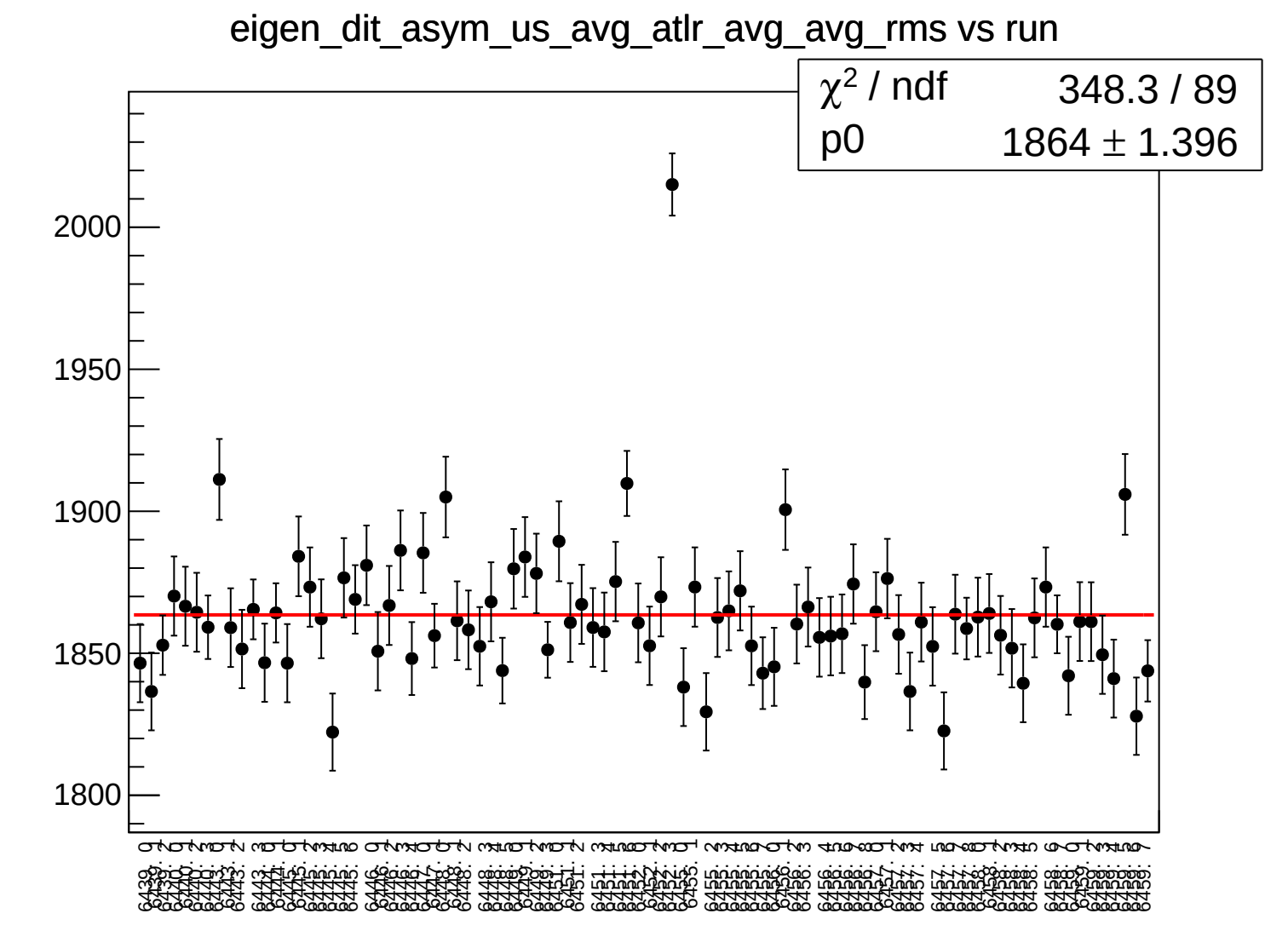

asym_us_avg_atlr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 80.28 / 89
p0 −9691 ± 6209
pull
Entries 90
Mean −107.7
Std Dev 0

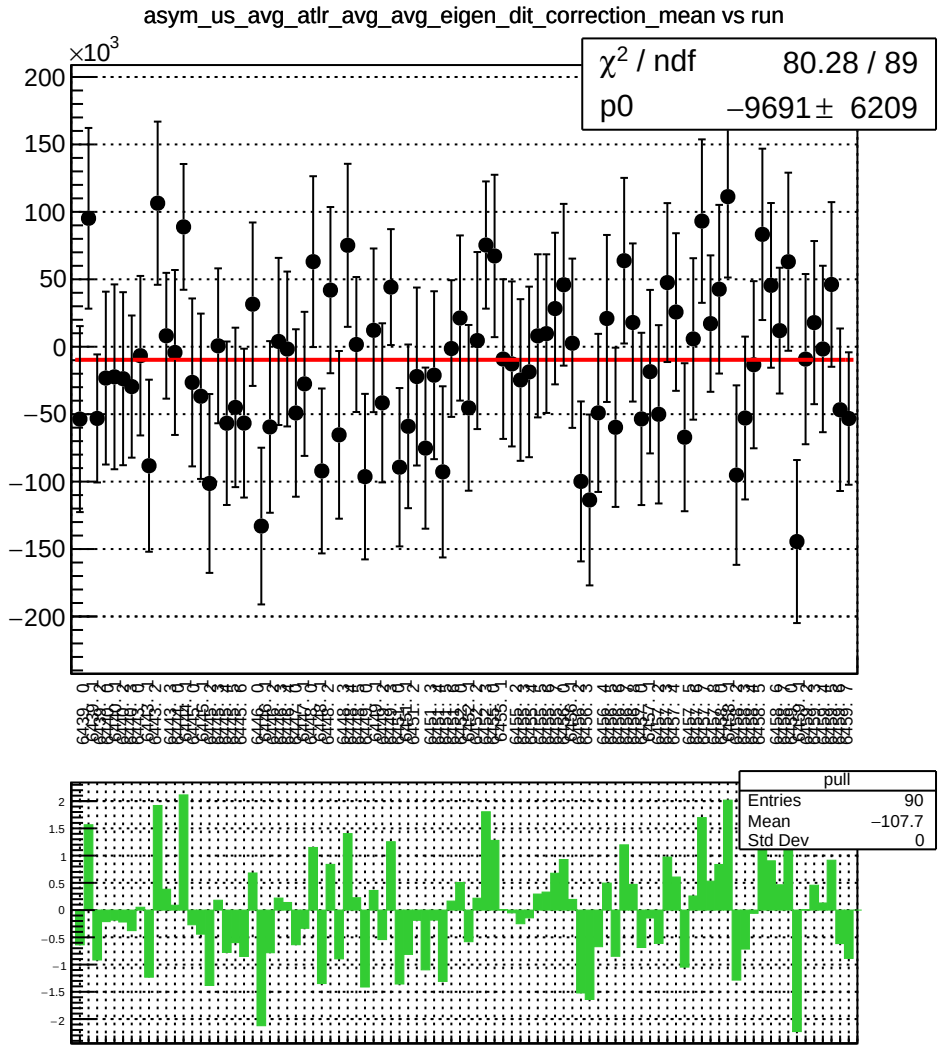

pull1D
Entries 90
Mean −0.0176
Std Dev 0.9443

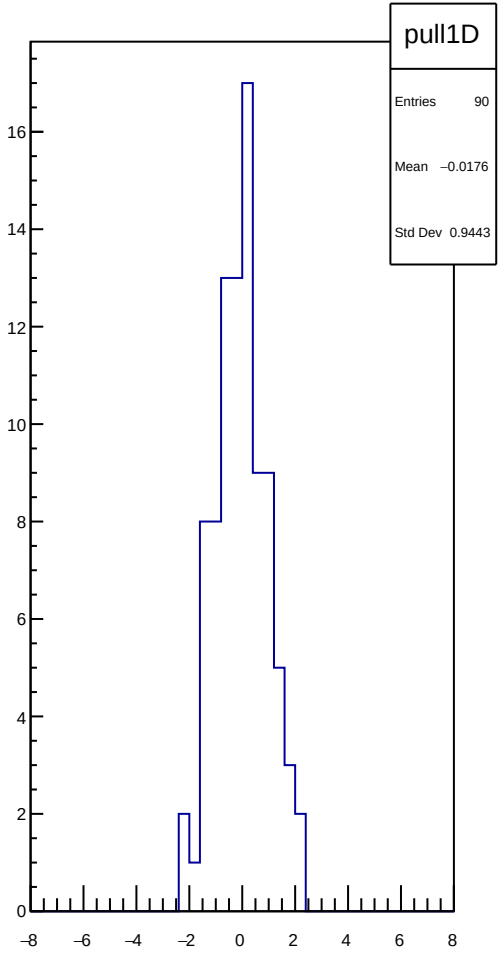

asym_us_avg_atlr_avg_avg_dit_correction_rms vs run
χ² / ndf 2705 / 89
p0 5857 ± 4.391
6600
6400
6200
6000
5800
5600
5400
5200

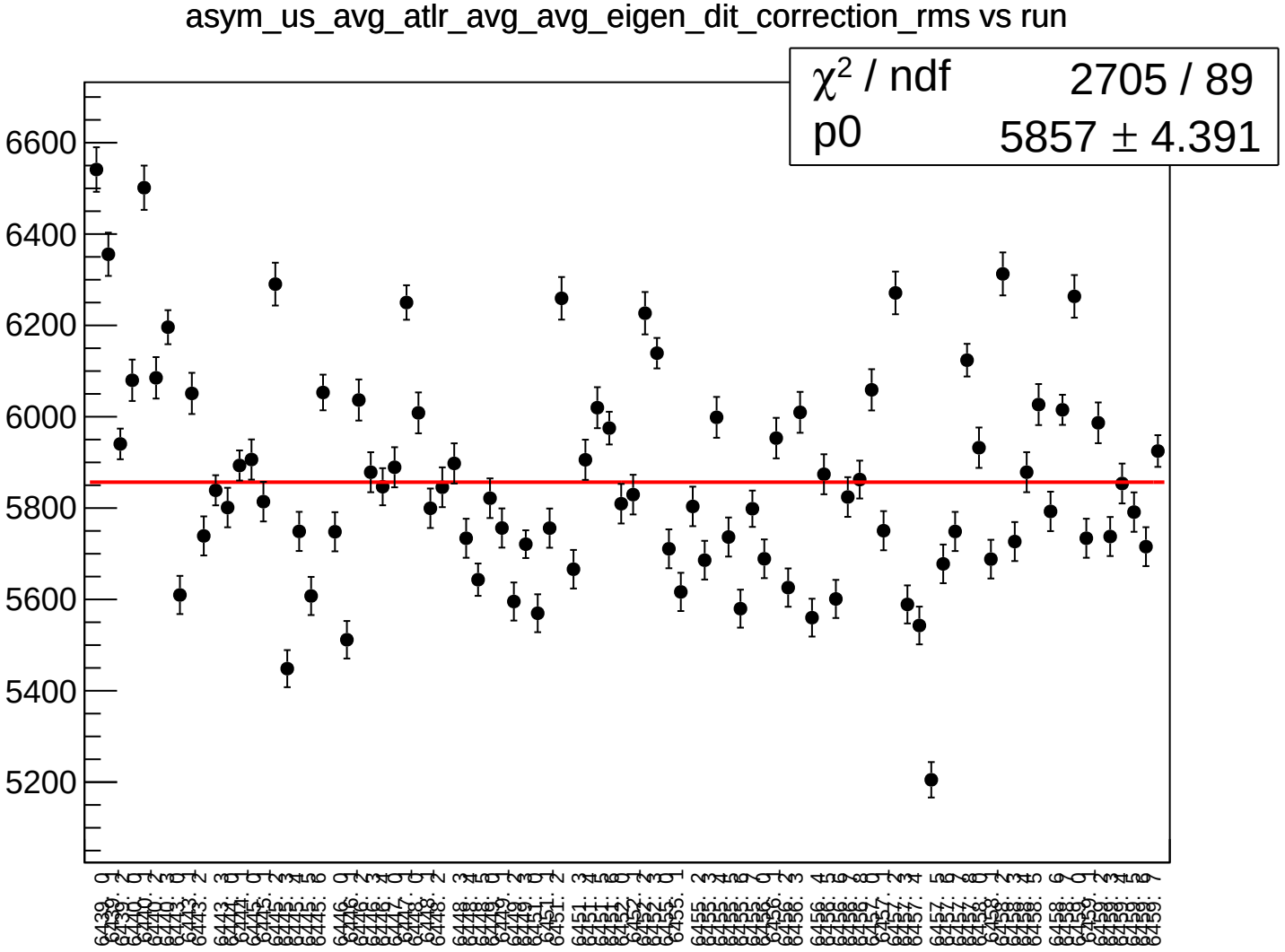

eigen_dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 102.5 / 89
p0 3393 ± 1974
pull
Entries 90
Mean 717.2
Std Dev 0

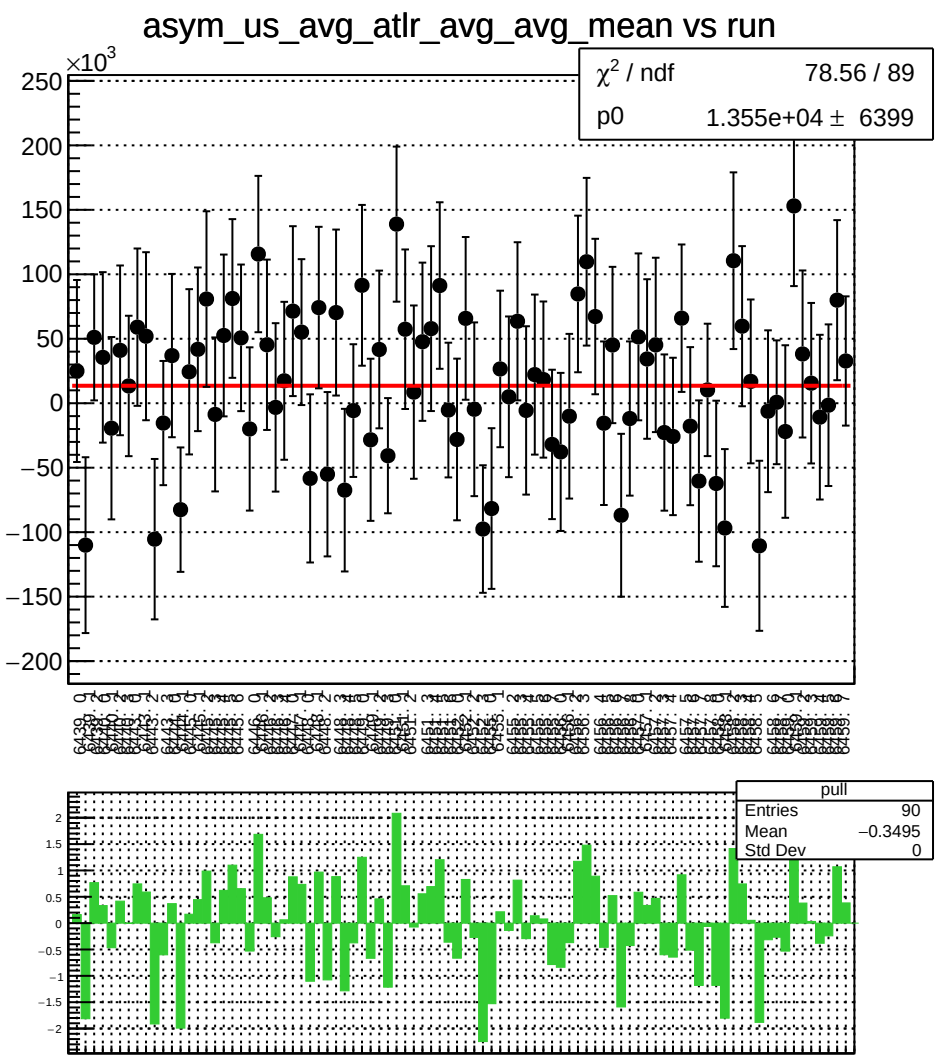

pull1D
Entries 90
Mean 0.009437
Std Dev 1.067

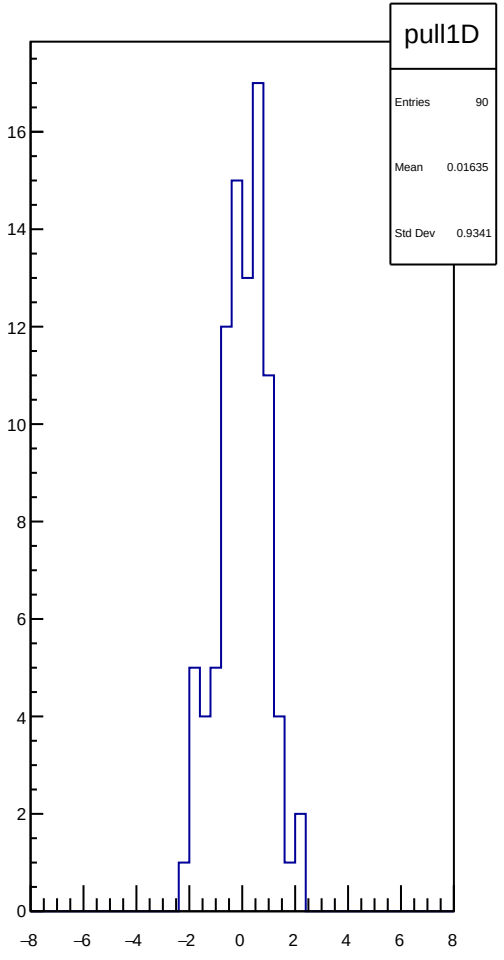

eigen_dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 348.3 / 89
p0 1864 ± 1.396
2000
1950
1900
1850
1800

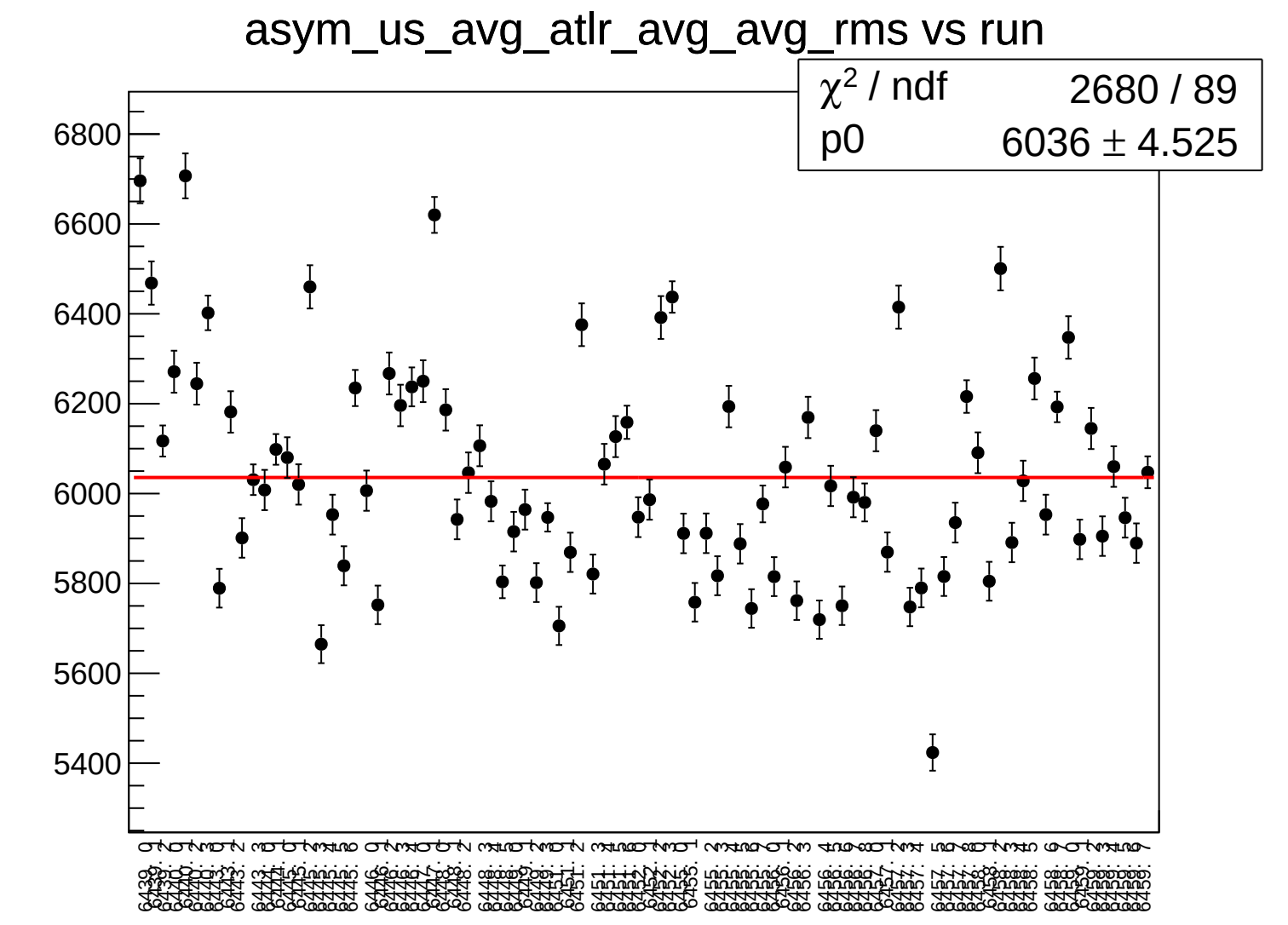

asym_us_avg_atlr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 80.28 / 89
p0 −9691 ± 6209
pull
Entries 90
Mean −107.7
Std Dev 0

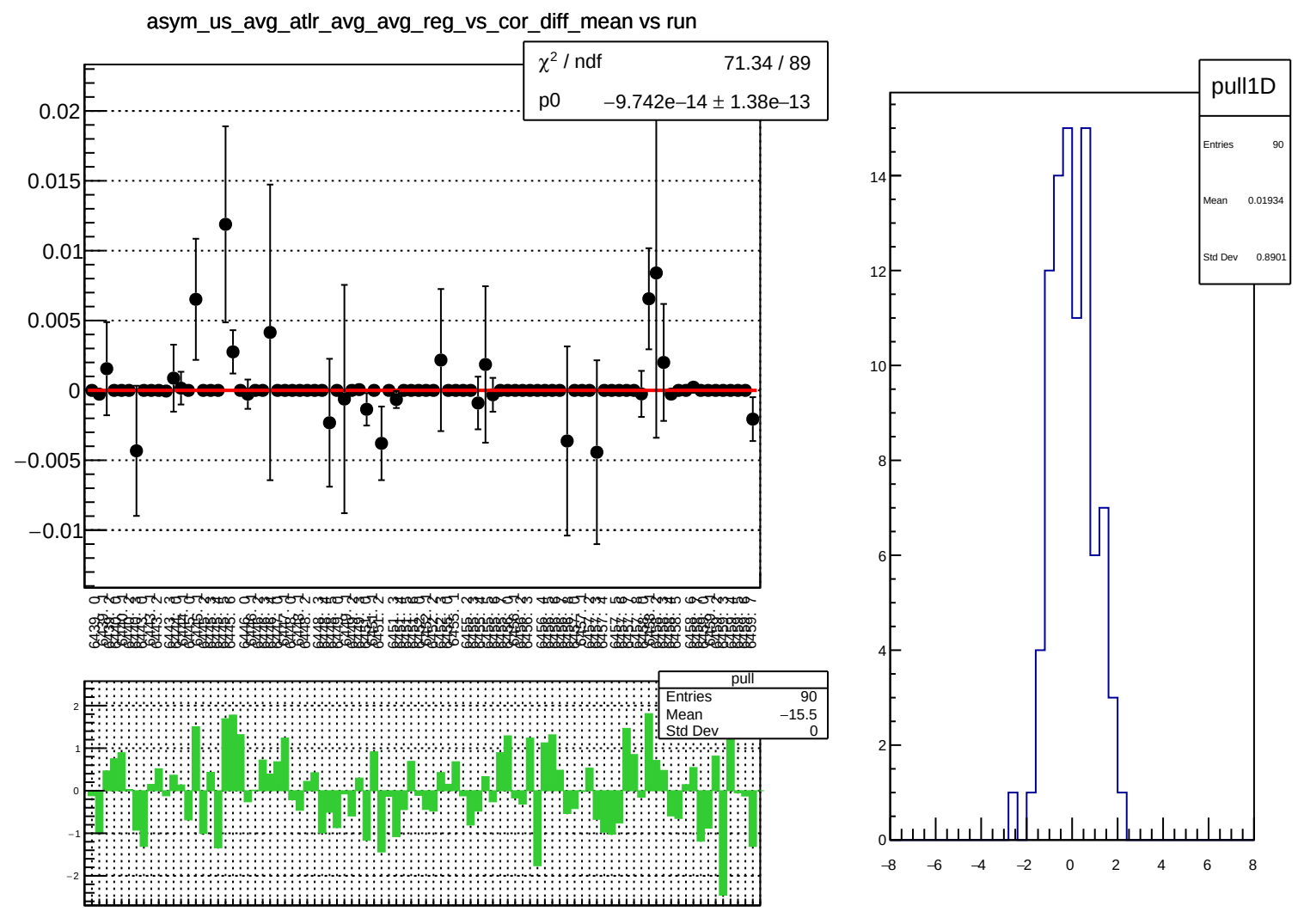

pull1D
Entries 90
Mean −0.0176
Std Dev 0.9443

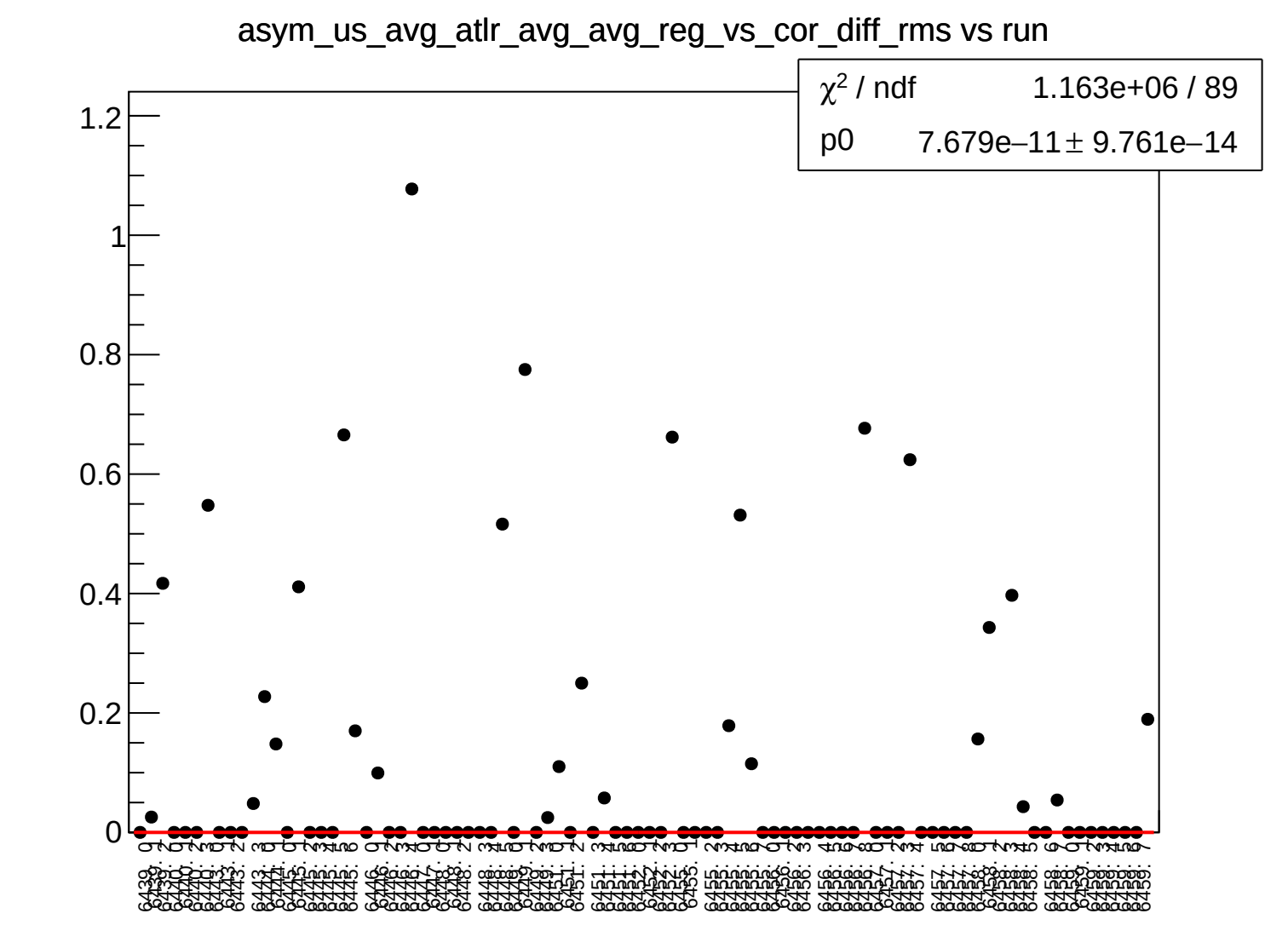

asym_us_avg_atlr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 2705 / 89
p0 5857 ± 4.391
6600
6400
6200
6000
5800
5600
5400
5200

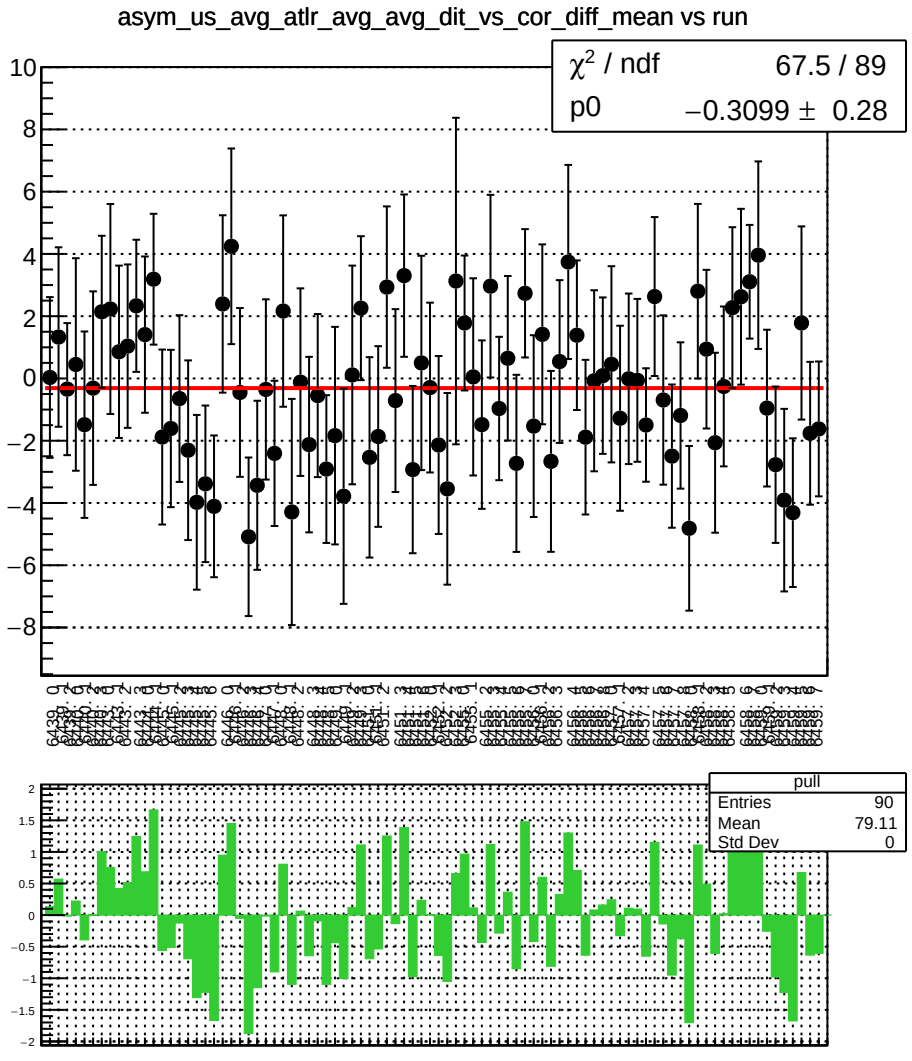

asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 78.56 / 89
p0 1.355e+04 ± 6399
pull
Entries 90
Mean −0.3495
Std Dev 0

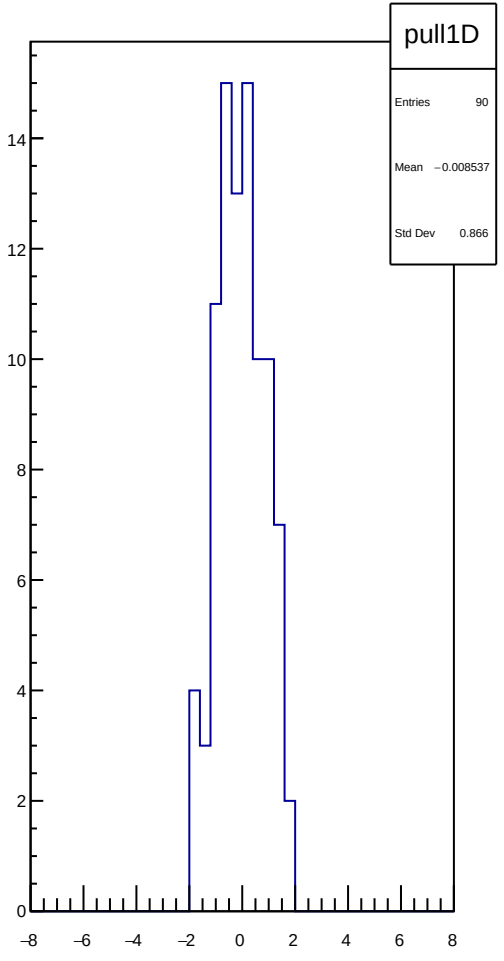

pull1D
Entries 90
Mean 0.01635
Std Dev 0.9341

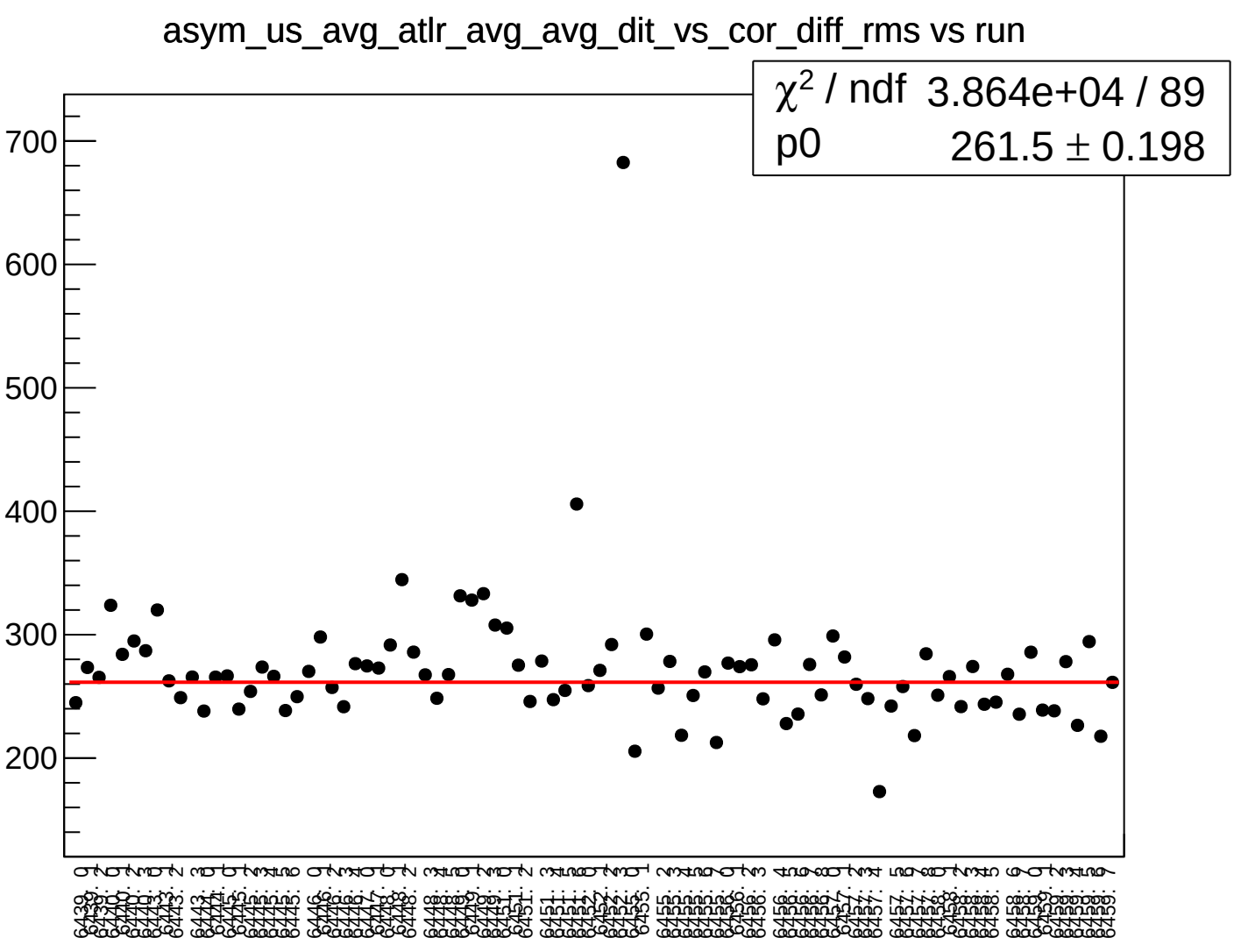

asym_us_avg_atlr_avg_avg_rms vs run
χ^2 / ndf 2680 / 89
p0 6036 ± 4.525
6800
6600
6400
6200
6000
5800
5600
5400

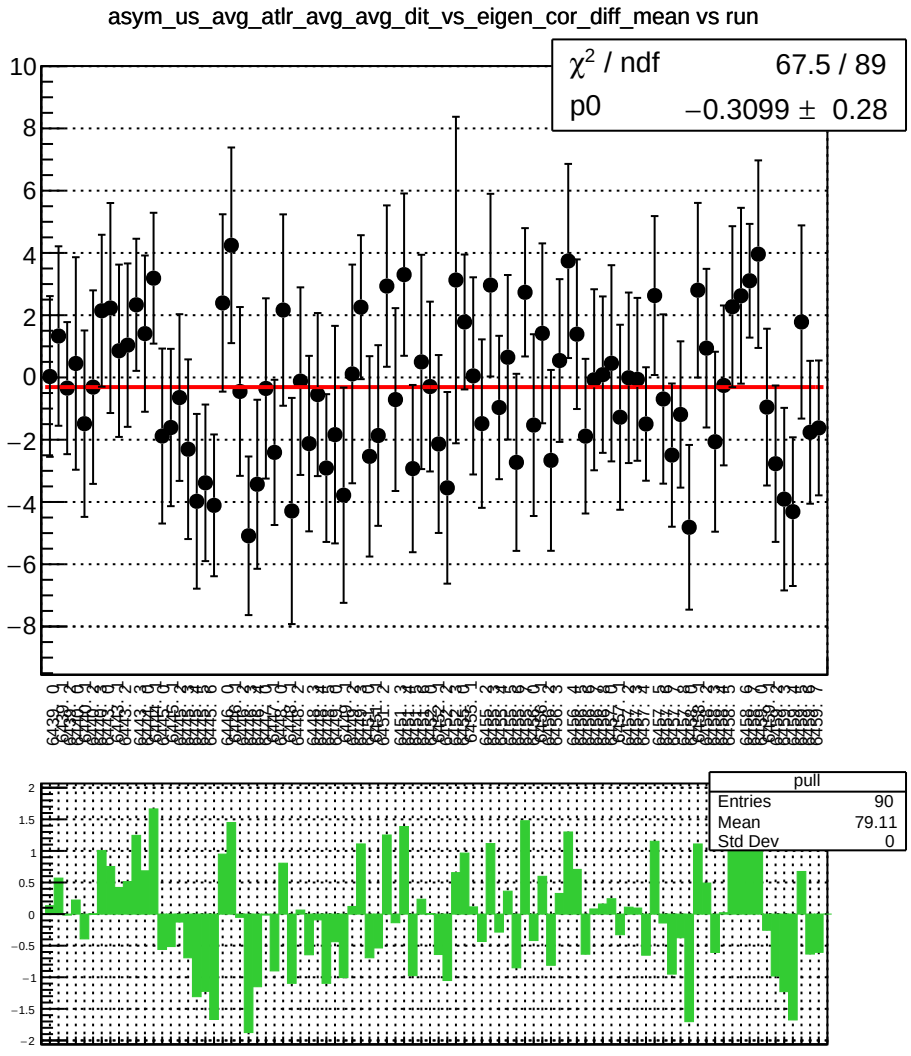

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 71.34 / 89
p0 −9.742e−14 ± 1.38e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 90
Mean −15.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 90
Mean 0.01934
Std Dev 0.8901
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

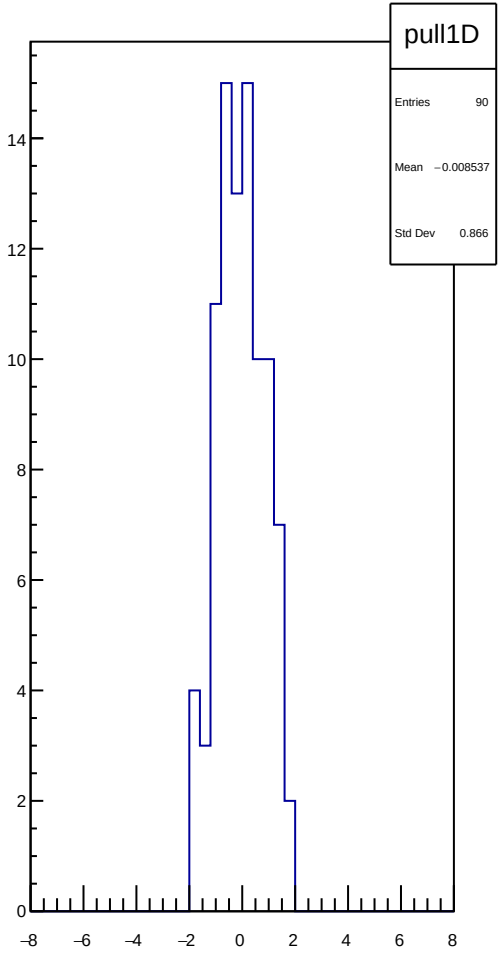

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.163e+06 / 89
p0 7.679e−11 ± 9.761e−14
1.2
1
0.8
0.6
0.4
0.2
0

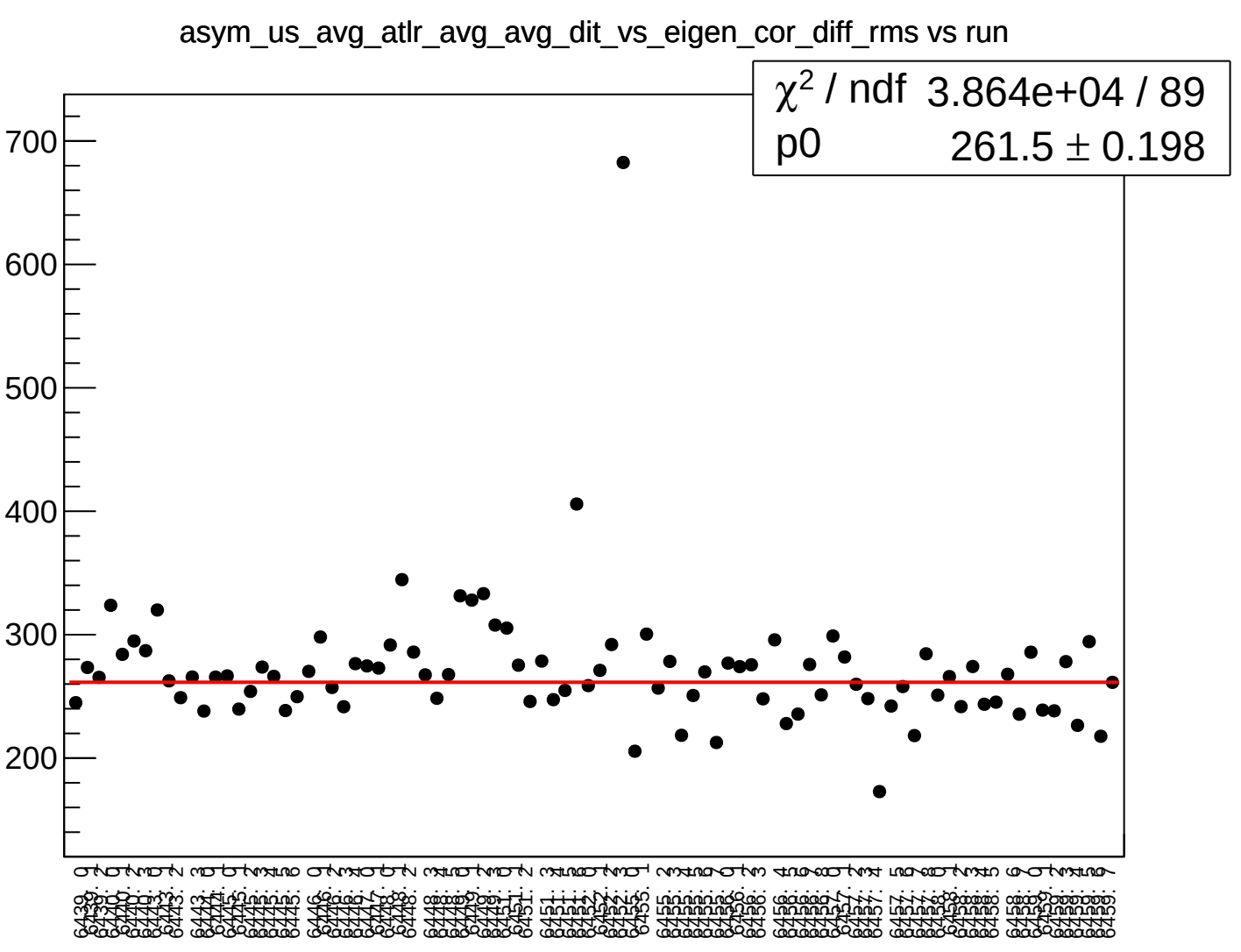

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 67.5 / 89
p0 −0.3099 ± 0.28
pull
Entries 90
Mean 79.11
Std Dev 0

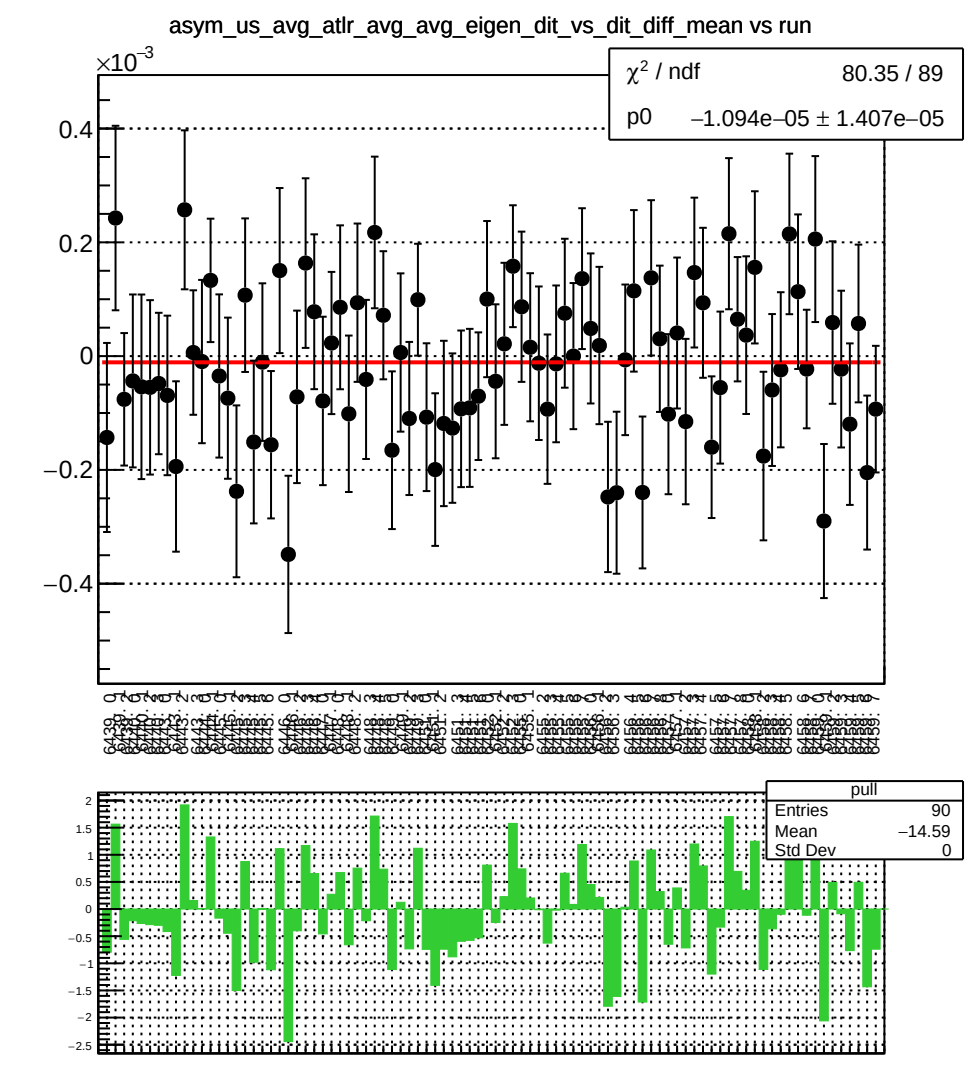

pull1D
Entries 90
Mean −0.008537
Std Dev 0.866

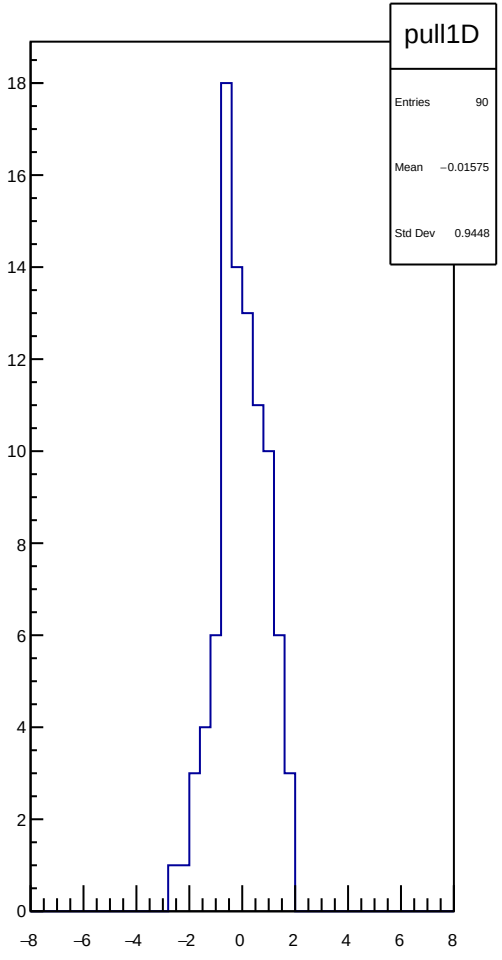

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.864e+04 / 89
p0 261.5 ± 0.198
700
600
500
400
300
200

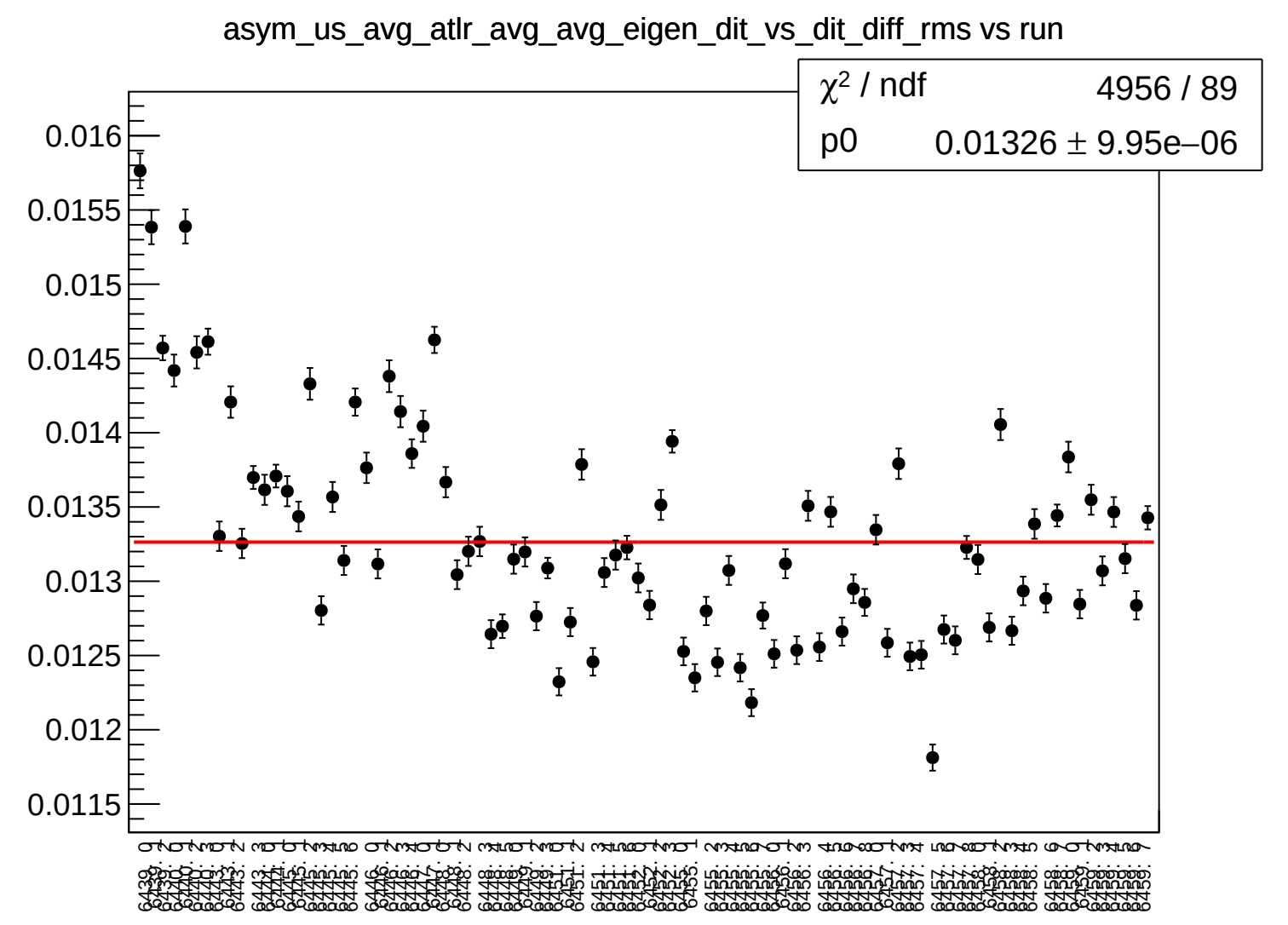

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.5 / 89
p0 −0.3099 ± 0.28
pull
Entries 90
Mean 79.11
Std Dev 0

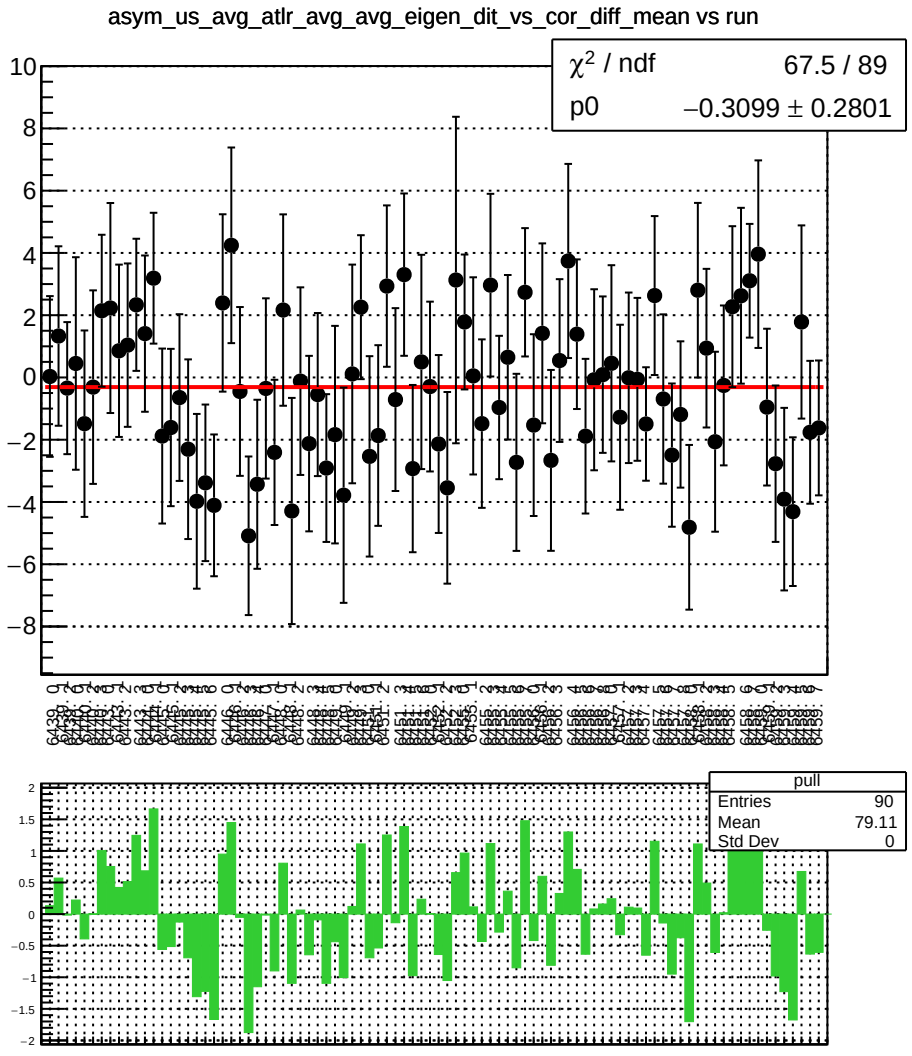

pull1D
Entries 90
Mean −0.008537
Std Dev 0.866

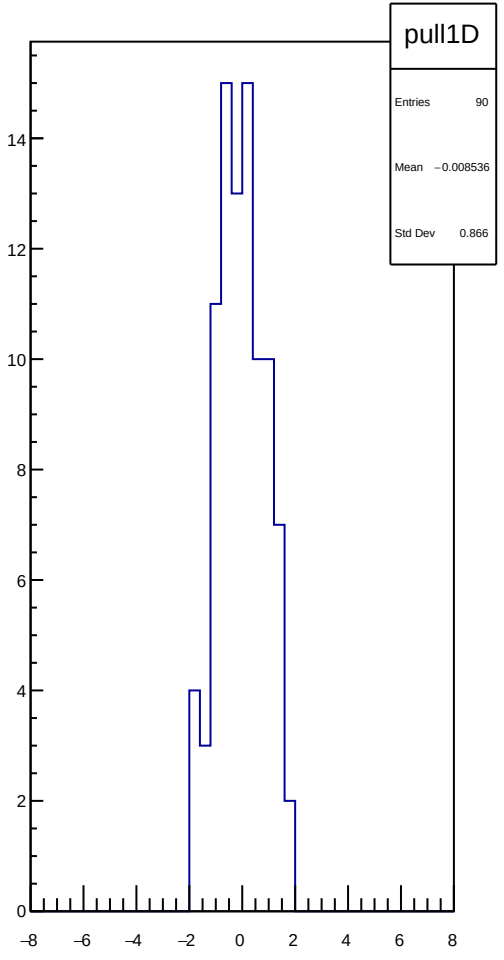

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.864e+04 / 89
p0 261.5 ± 0.198
700
600
500
400
300
200

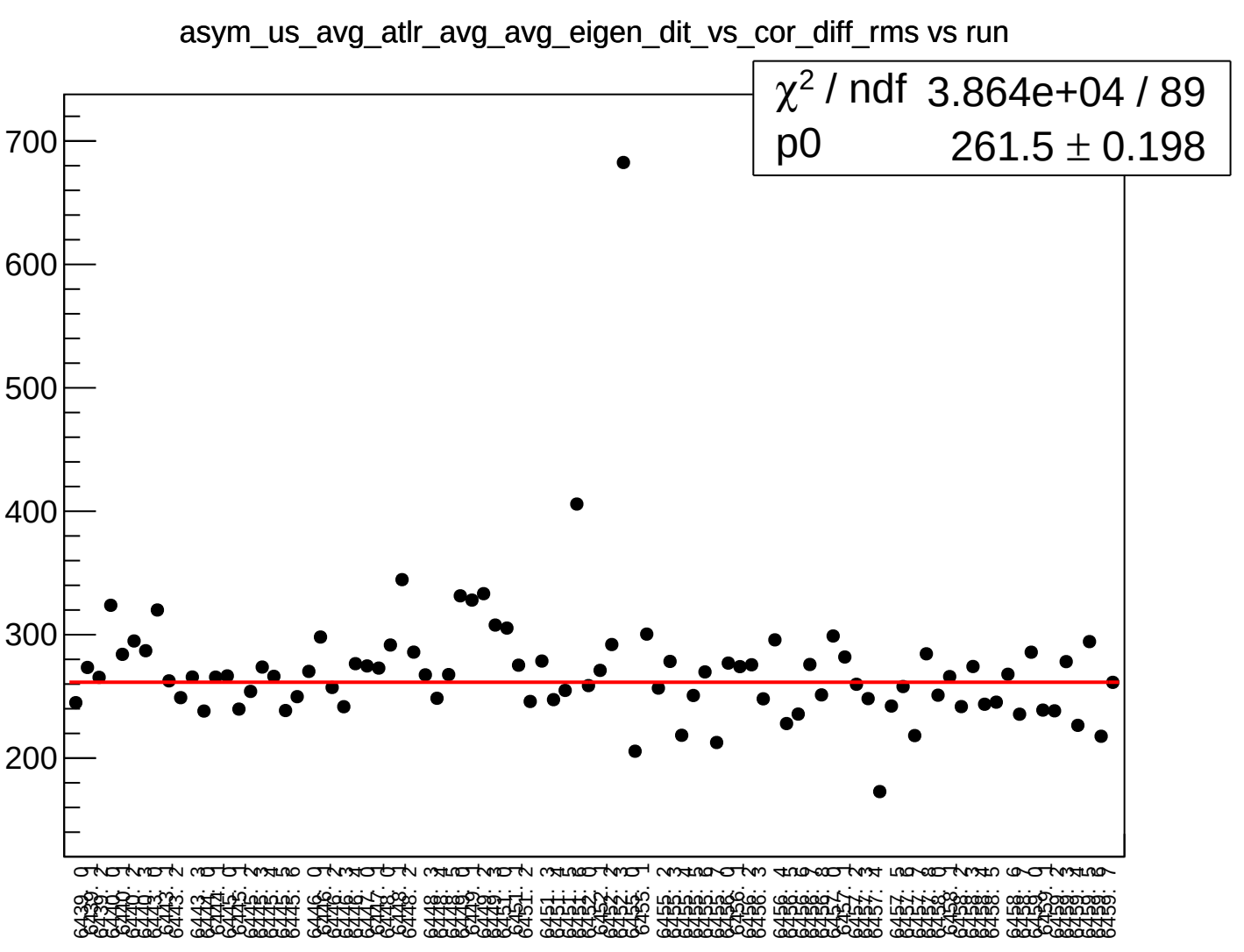

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 80.35 / 89
p0 −1.094e−05 ± 1.407e−05
pull
Entries 90
Mean −14.59
Std Dev 0

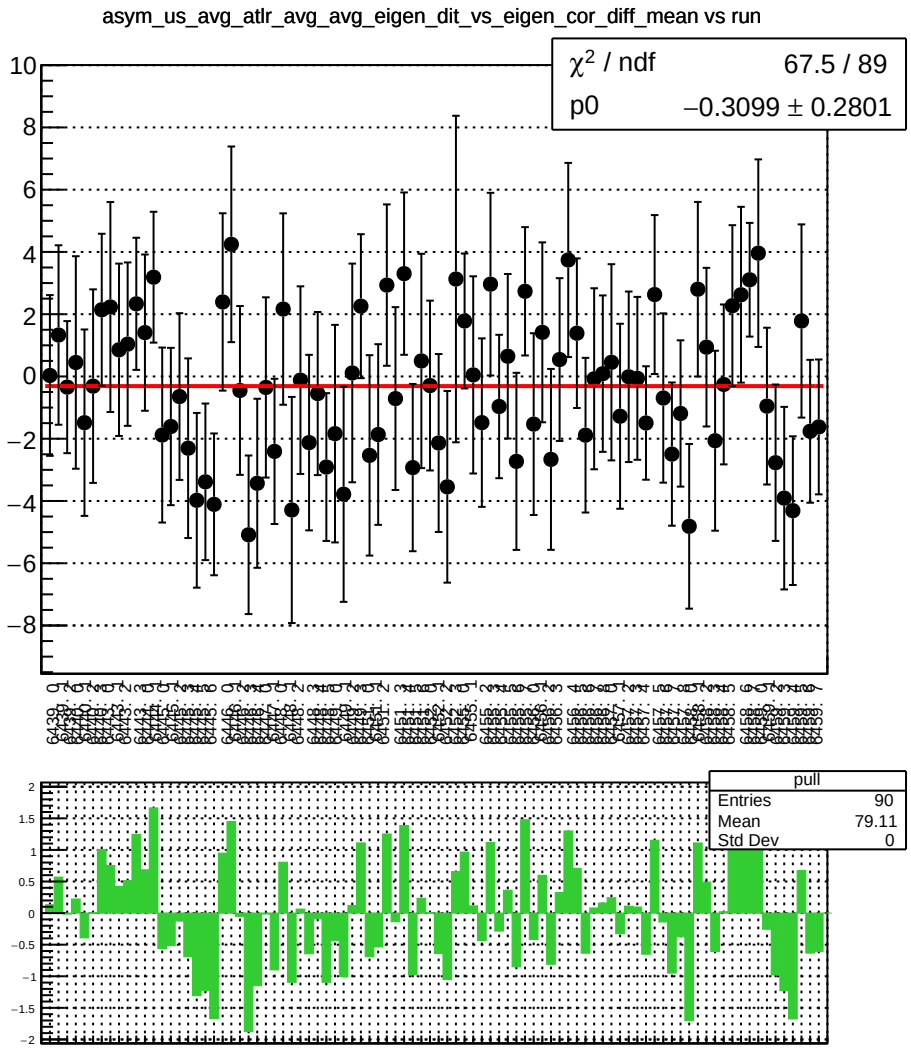

pull1D
Entries 90
Mean −0.01575
Std Dev 0.9448

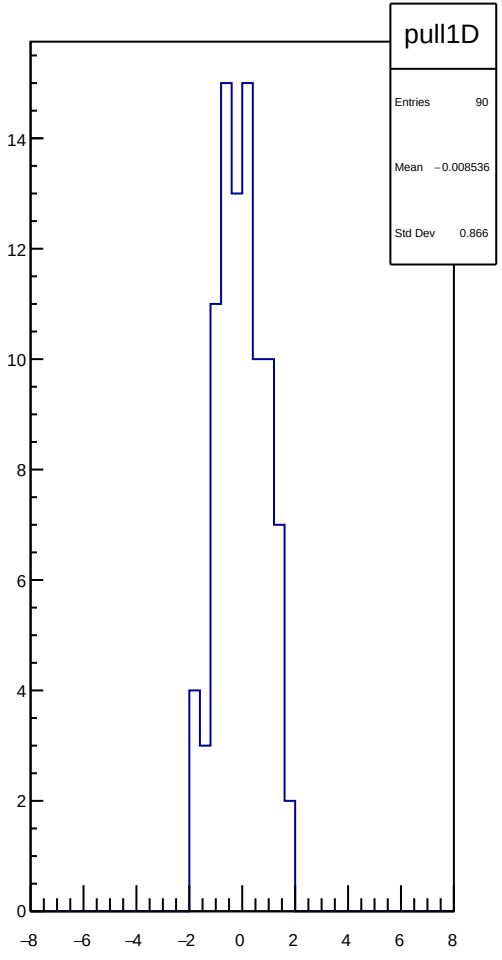

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4956 / 89
p0 0.01326 ± 9.95e−06
0.016
0.0155
0.015
0.0145
0.014
0.0135
0.013
0.0125
0.012
0.0115

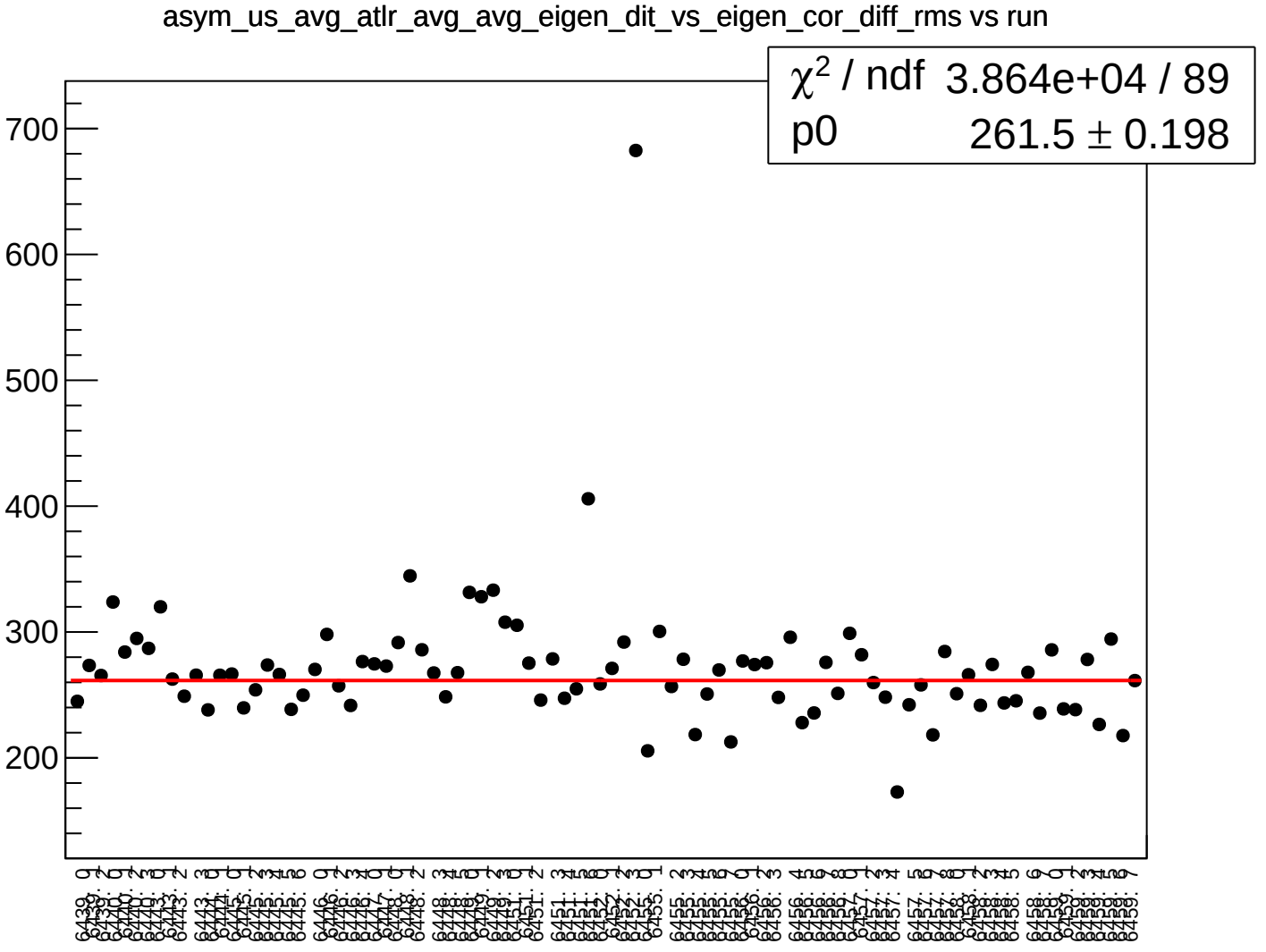

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 67.5 / 89
p0 −0.3099 ± 0.2801
pull
Entries 90
Mean 79.11
Std Dev 0

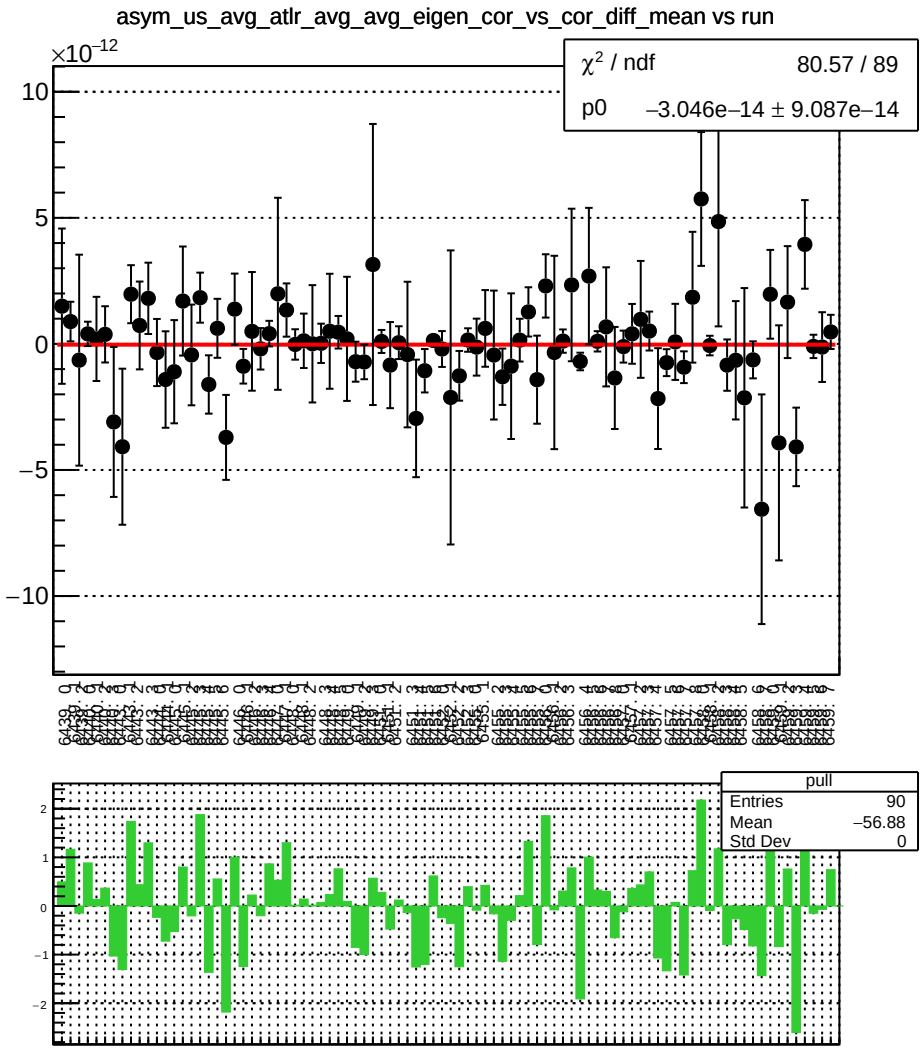

pull1D
Entries 90
Mean −0.008536
Std Dev 0.866

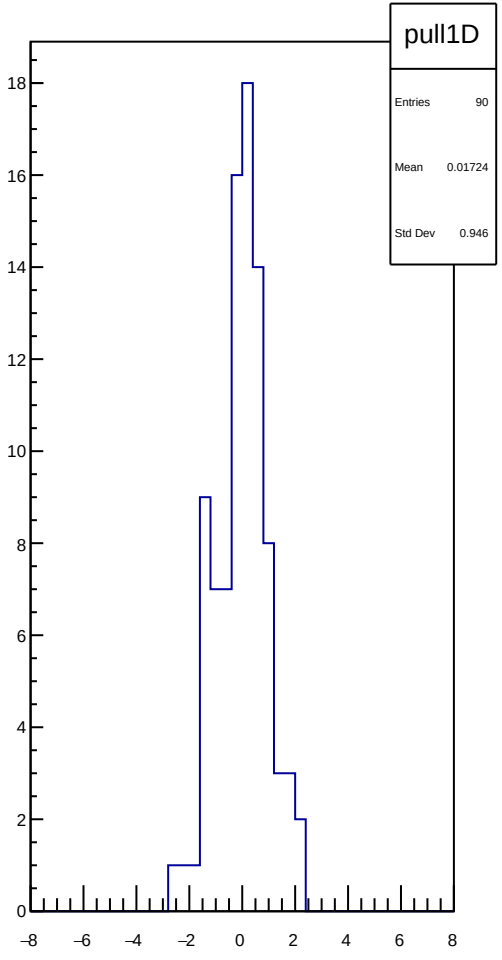

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.864e+04 / 89
p0 261.5 ± 0.198
700
600
500
400
300
200

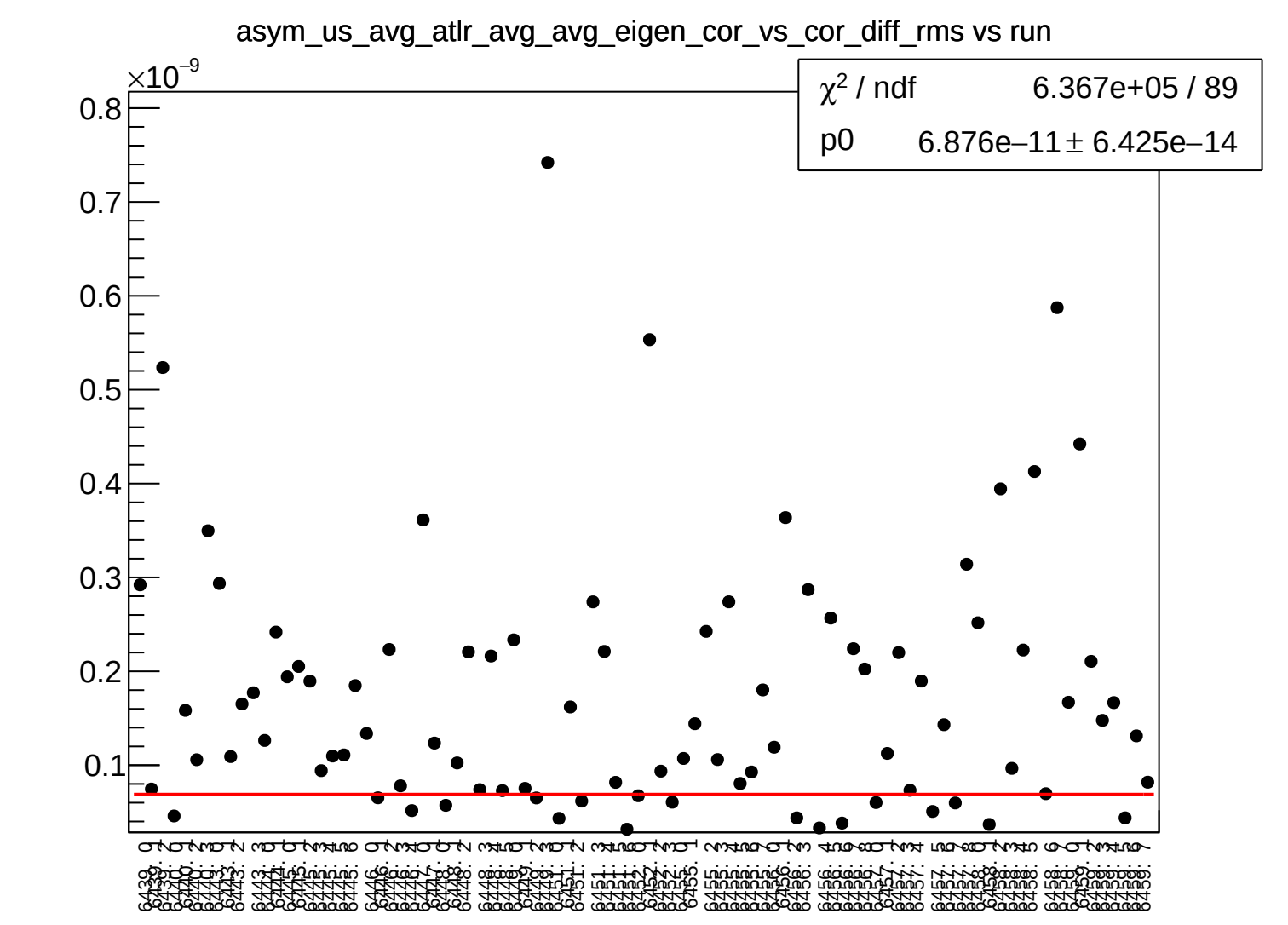

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.5 / 89
p0 −0.3099 ± 0.2801
pull
Entries 90
Mean 79.11
Std Dev 0

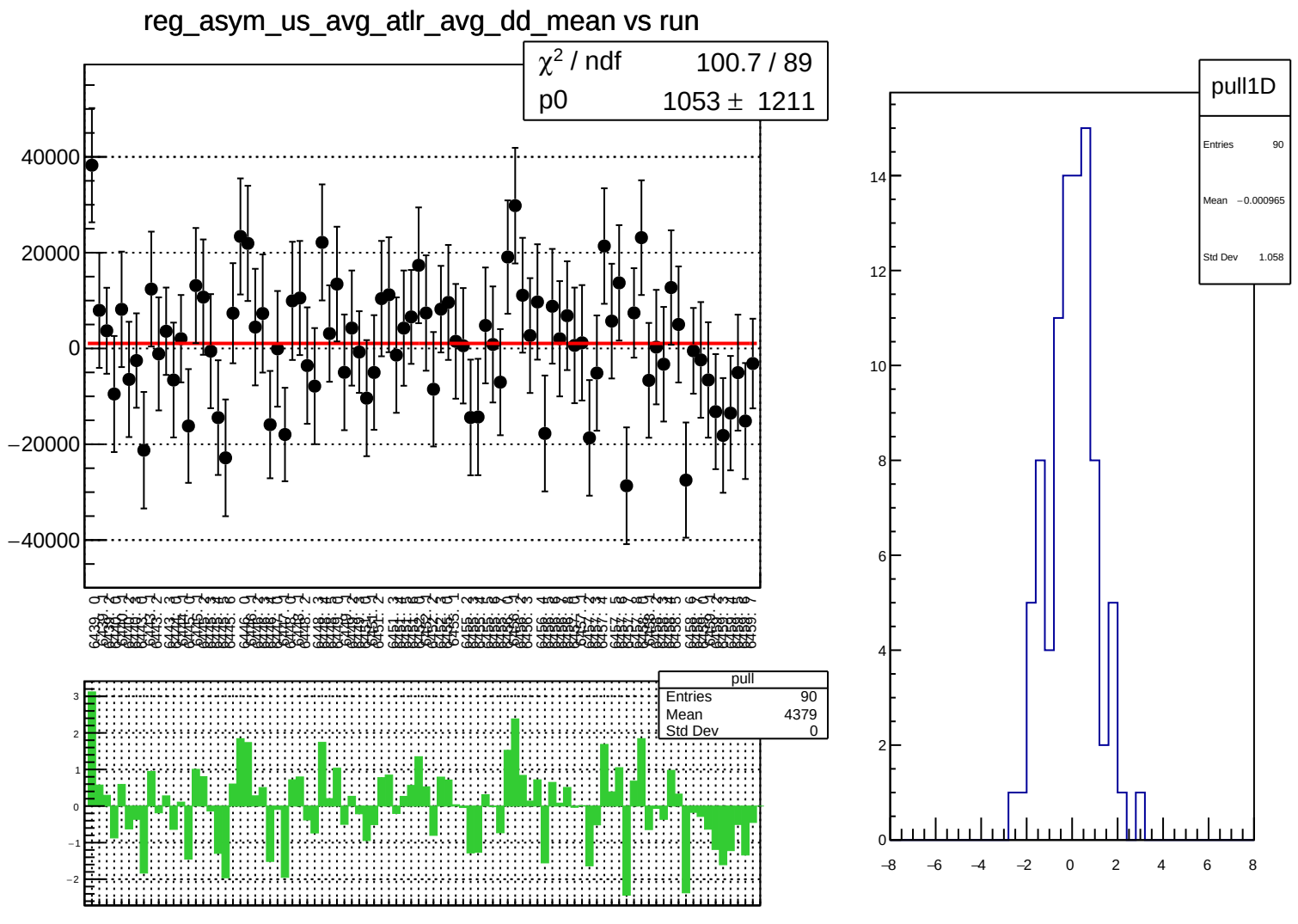

pull1D
Entries 90
Mean −0.008536
Std Dev 0.866

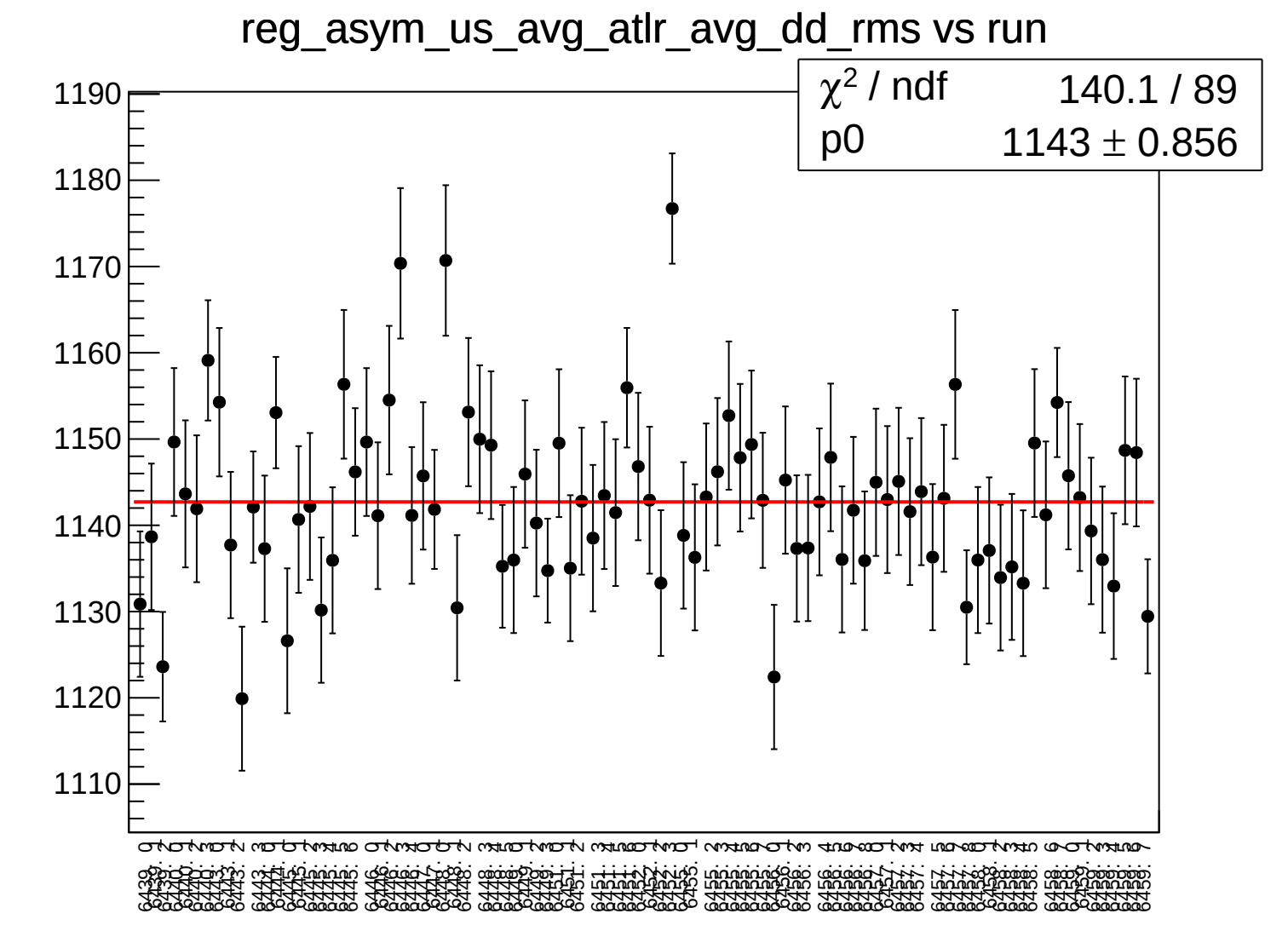

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.864e+04 / 89
p0 261.5 ± 0.198
700
600
500
400
300
200

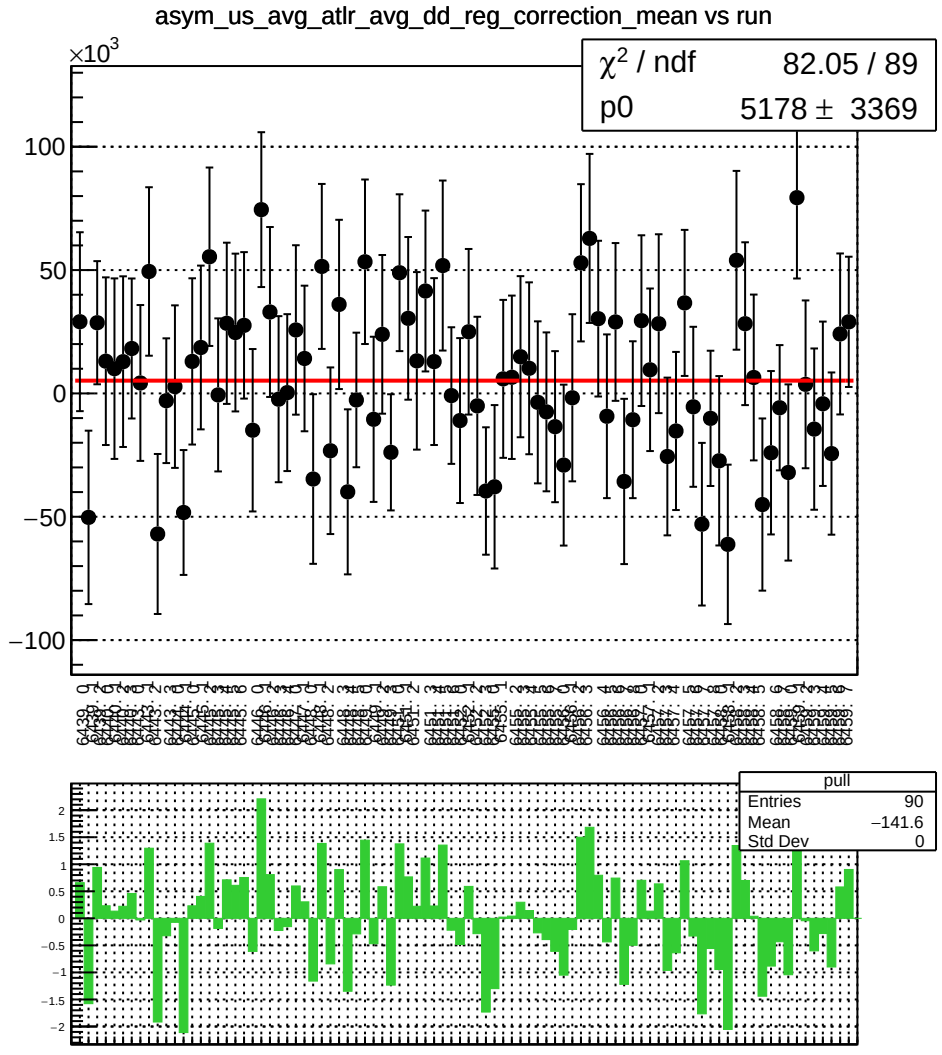

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.57 / 89
p0 −3.046e−14 ± 9.087e−14
pull
Entries 90
Mean −56.88
Std Dev 0

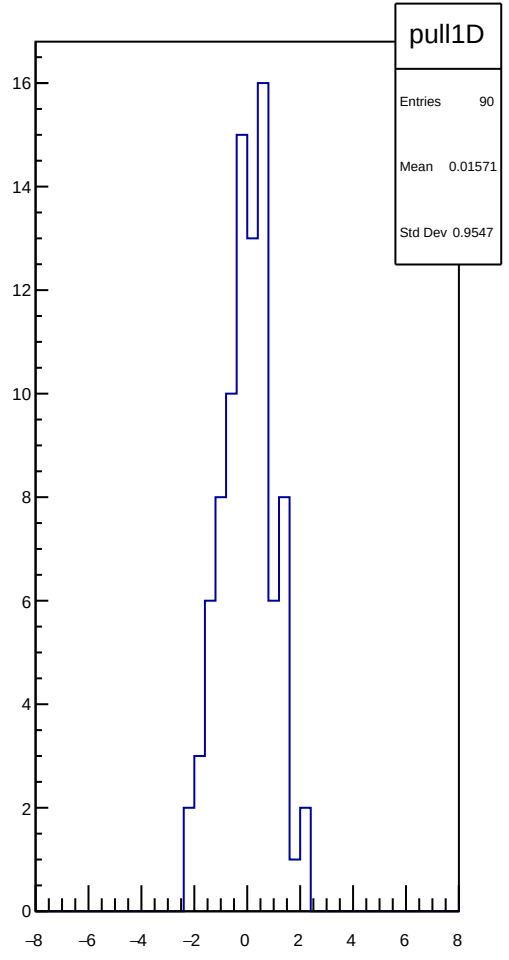

pull1D
Entries 90
Mean 0.01724
Std Dev 0.946

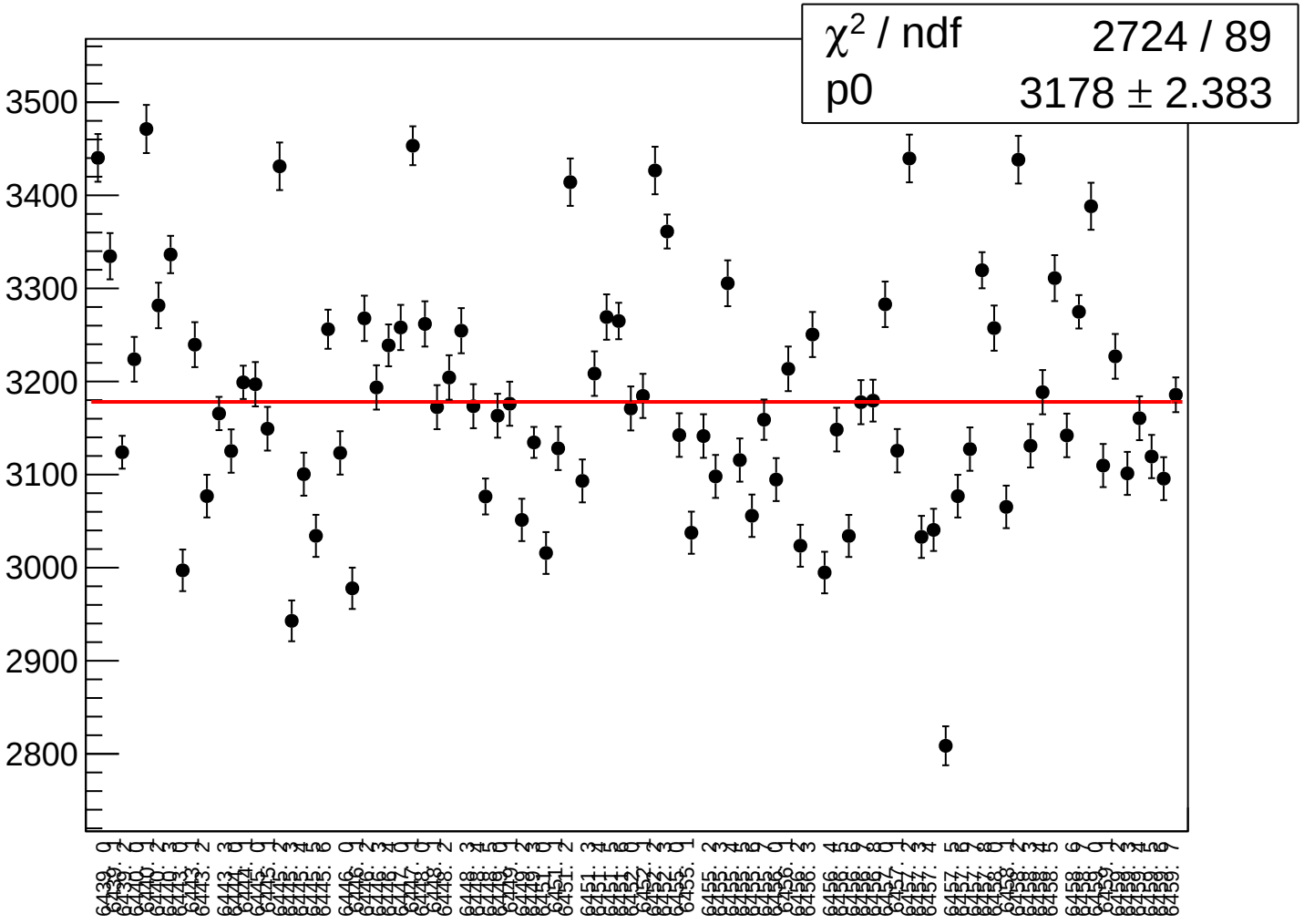

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.367e+05 / 89
p0 6.876e−11 ± 6.425e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

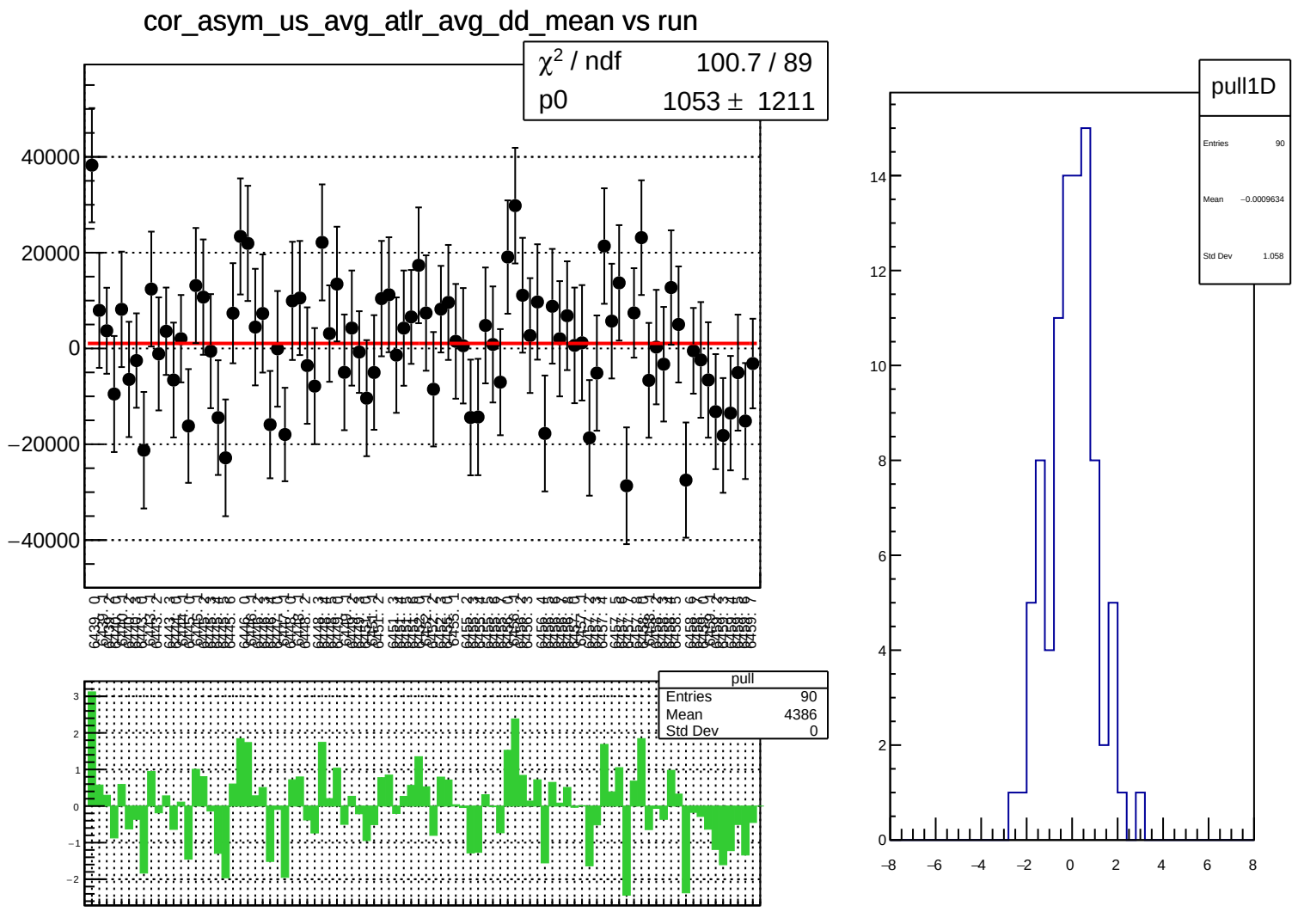

reg_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 100.7 / 89
p0 1053 ± 1211
40000
20000
0
−20000
−40000
pull
Entries 90
Mean 4379
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.000965
Std Dev 1.058
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

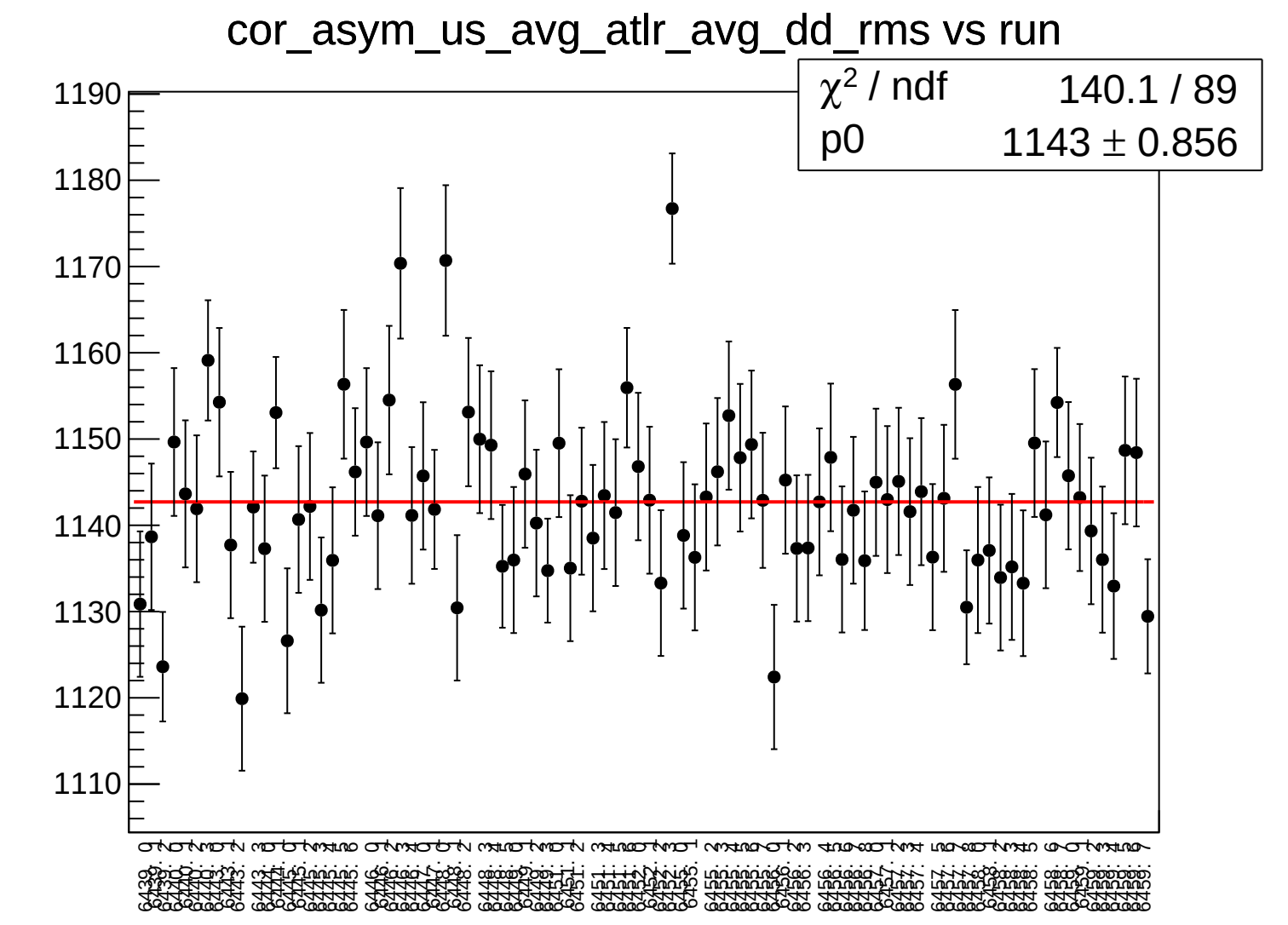

reg_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 140.1 / 89
p0 1143 ± 0.856
1190
1180
1170
1160
1150
1140
1130
1120
1110

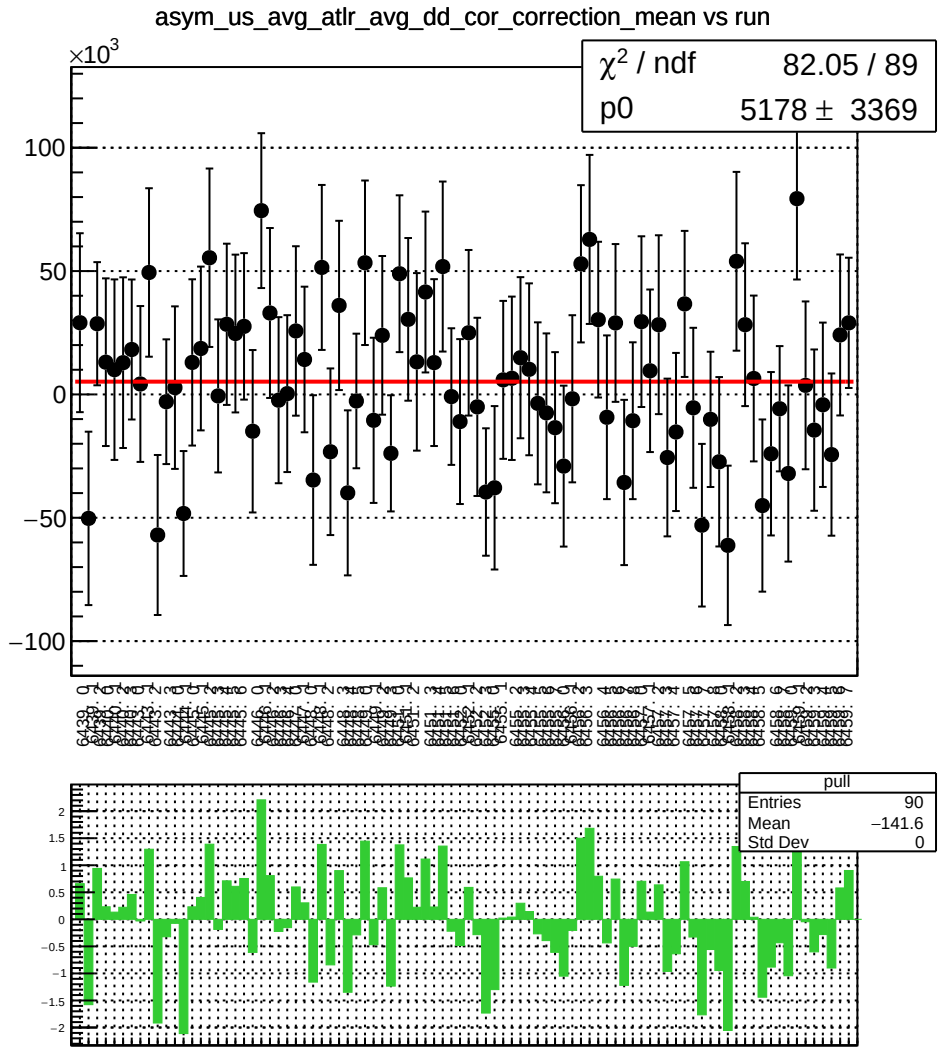

asym_us_avg_atlr_avg_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 82.05 / 89
p0 5178 ± 3369
100
50
0
−50
−100
pull
Entries 90
Mean −141.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

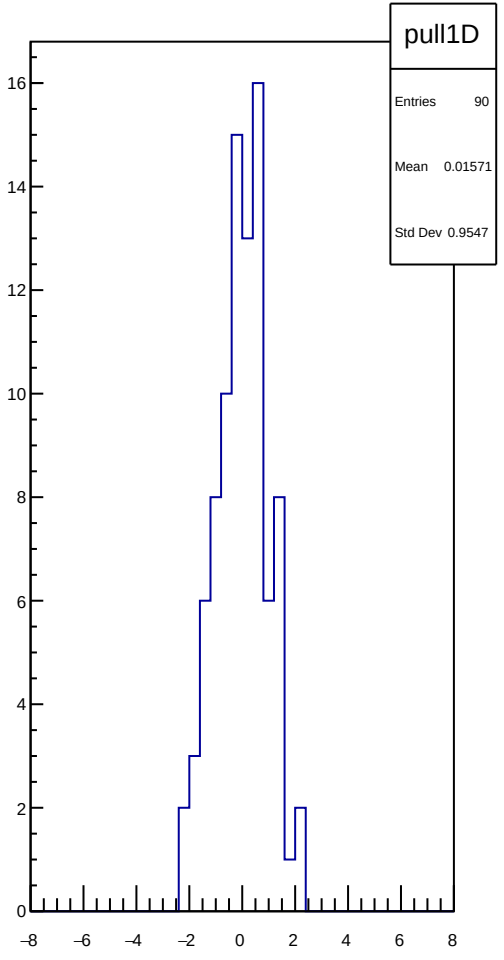

pull1D
Entries 90
Mean 0.01571
Std Dev 0.9547
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

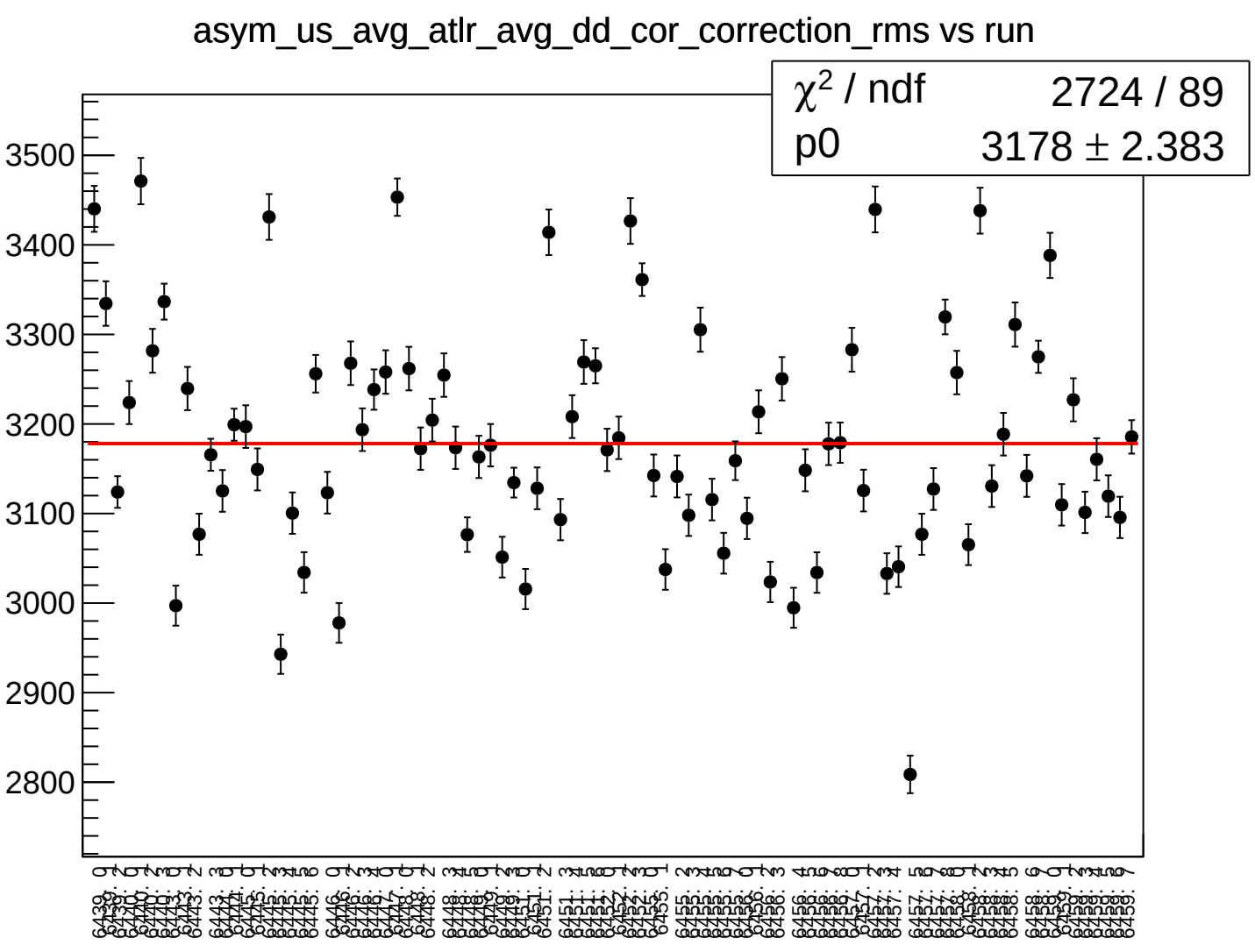

asym_us_avg_atlr_avg_dd_reg_correction_rms vs run
χ^2 / ndf 2724 / 89
p0 3178 ± 2.383
3500
3400
3300
3200
3100
3000
2900
2800

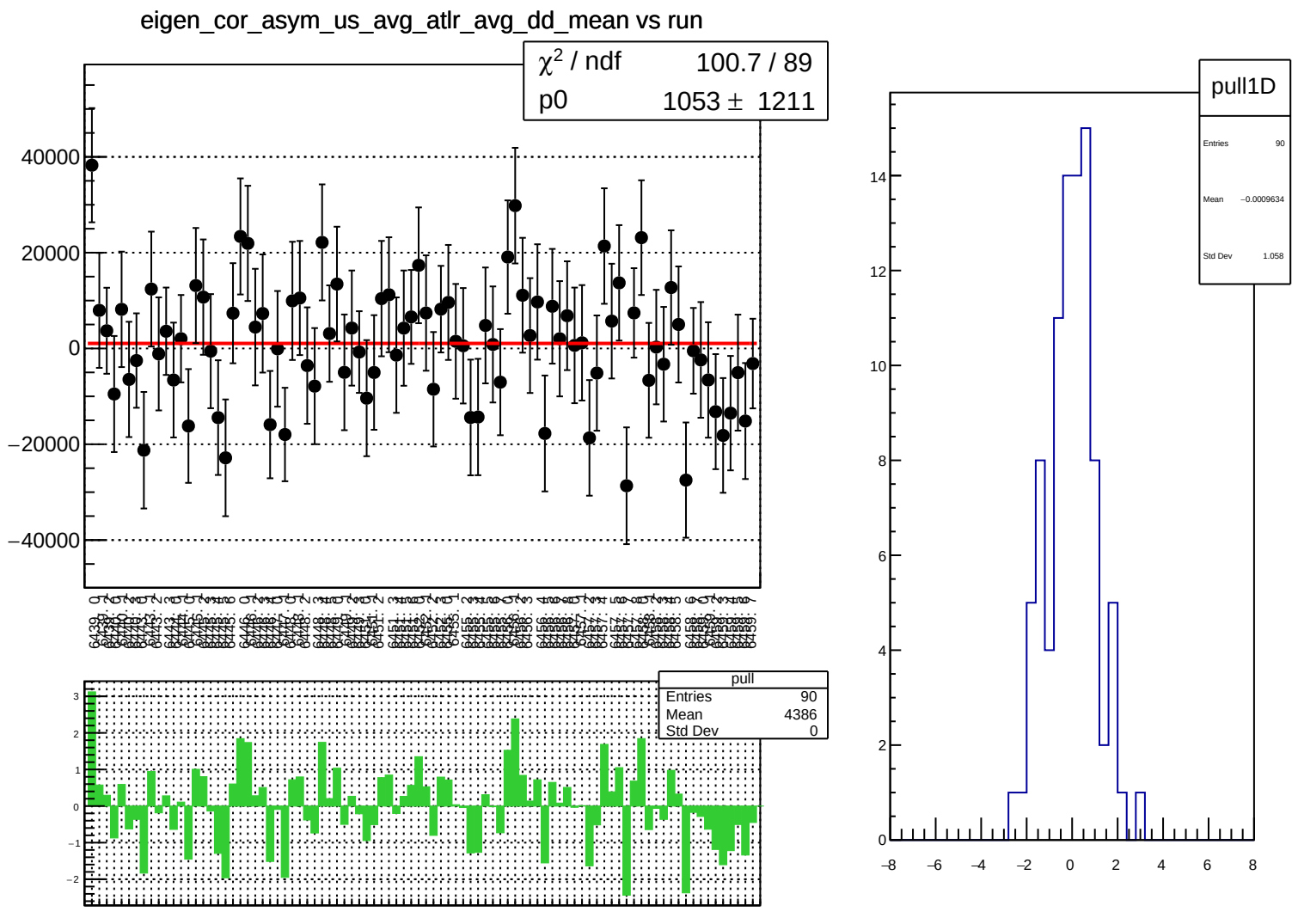

cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 100.7 / 89
p0 1053 ± 1211
40000
20000
0
−20000
−40000
pull
Entries 90
Mean 4386
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.0009634
Std Dev 1.058
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

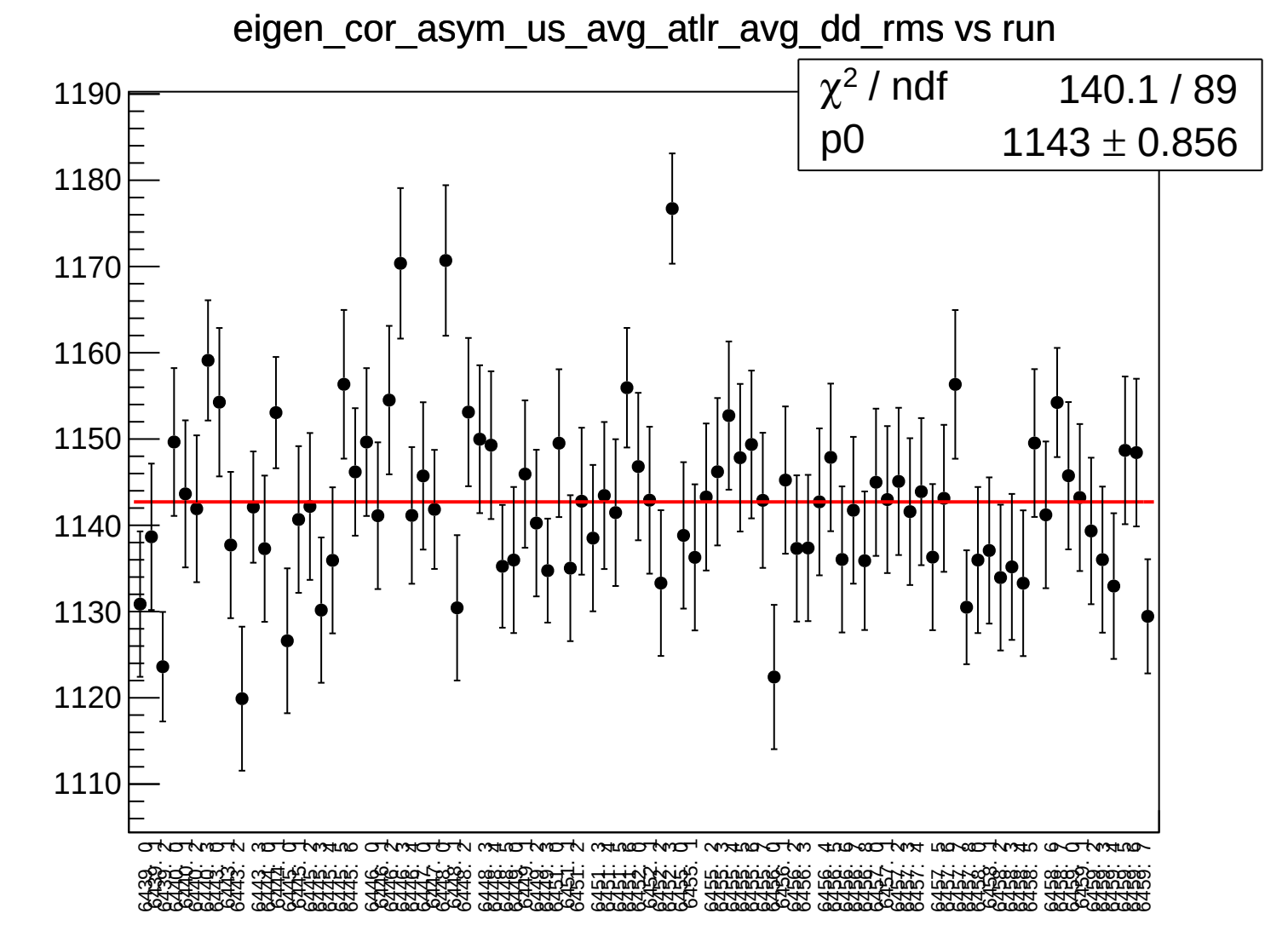

cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 140.1 / 89
p0 1143 ± 0.856
1190
1180
1170
1160
1150
1140
1130
1120
1110

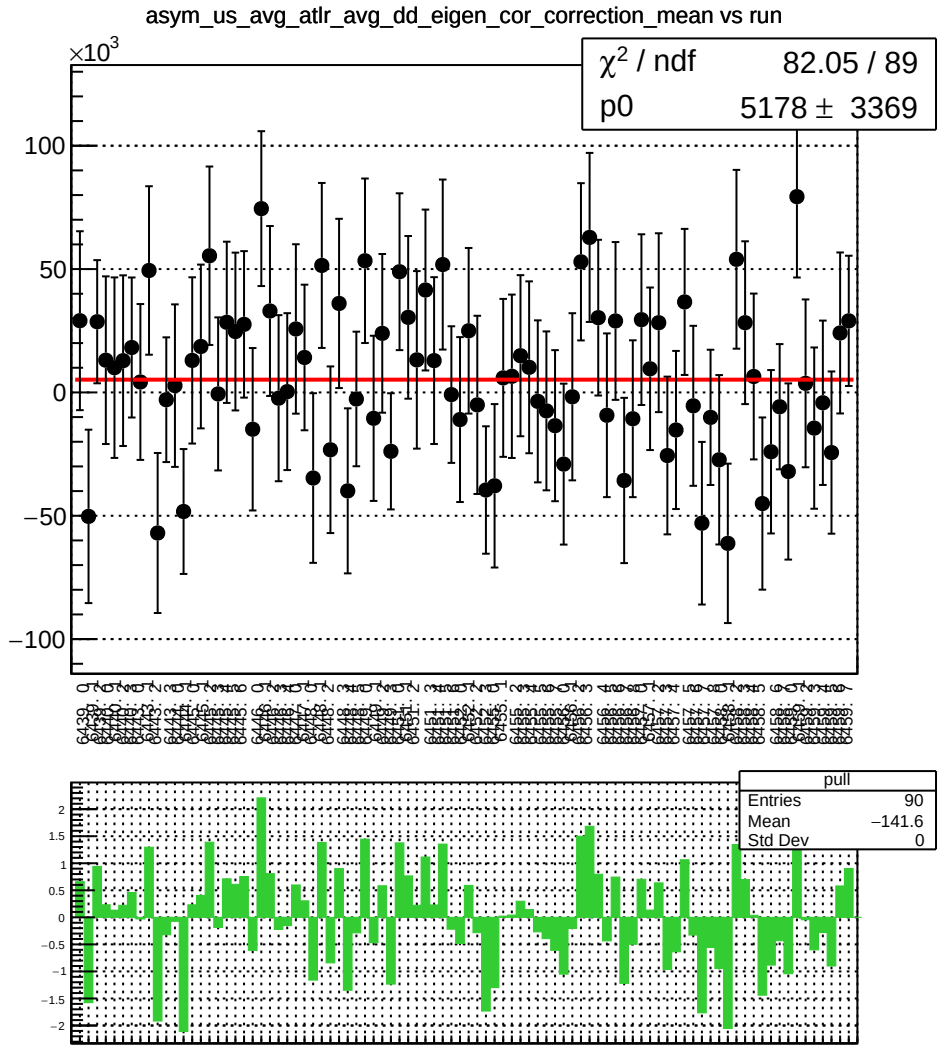

asym_us_avg_atlr_avg_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 82.05 / 89
p0 5178 ± 3369
100
50
0
−50
−100
pull
Entries 90
Mean −141.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

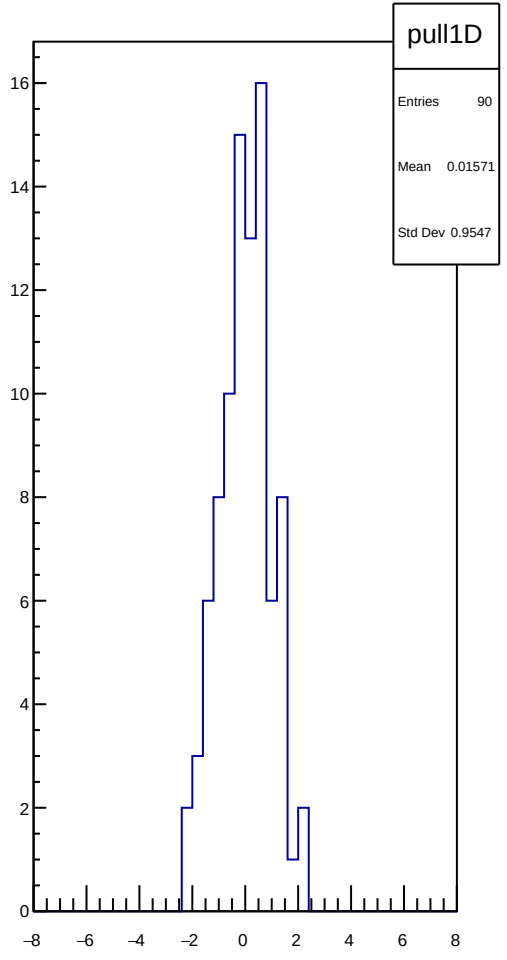

pull1D
Entries 90
Mean 0.01571
Std Dev 0.9547
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

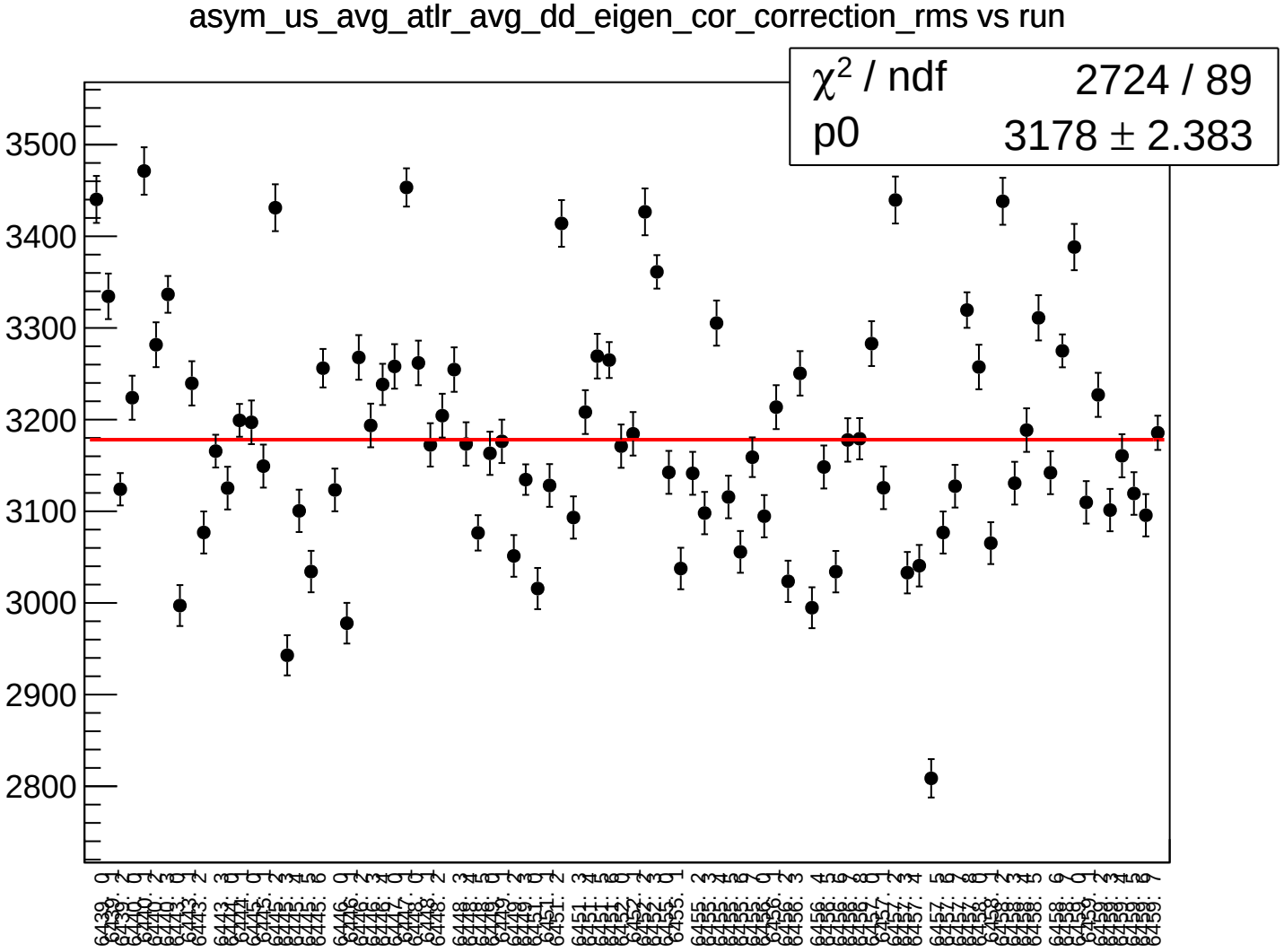

asym_us_avg_atlr_avg_dd_cor_correction_rms vs run
χ² / ndf 2724 / 89
p0 3178 ± 2.383
3500
3400
3300
3200
3100
3000
2900
2800

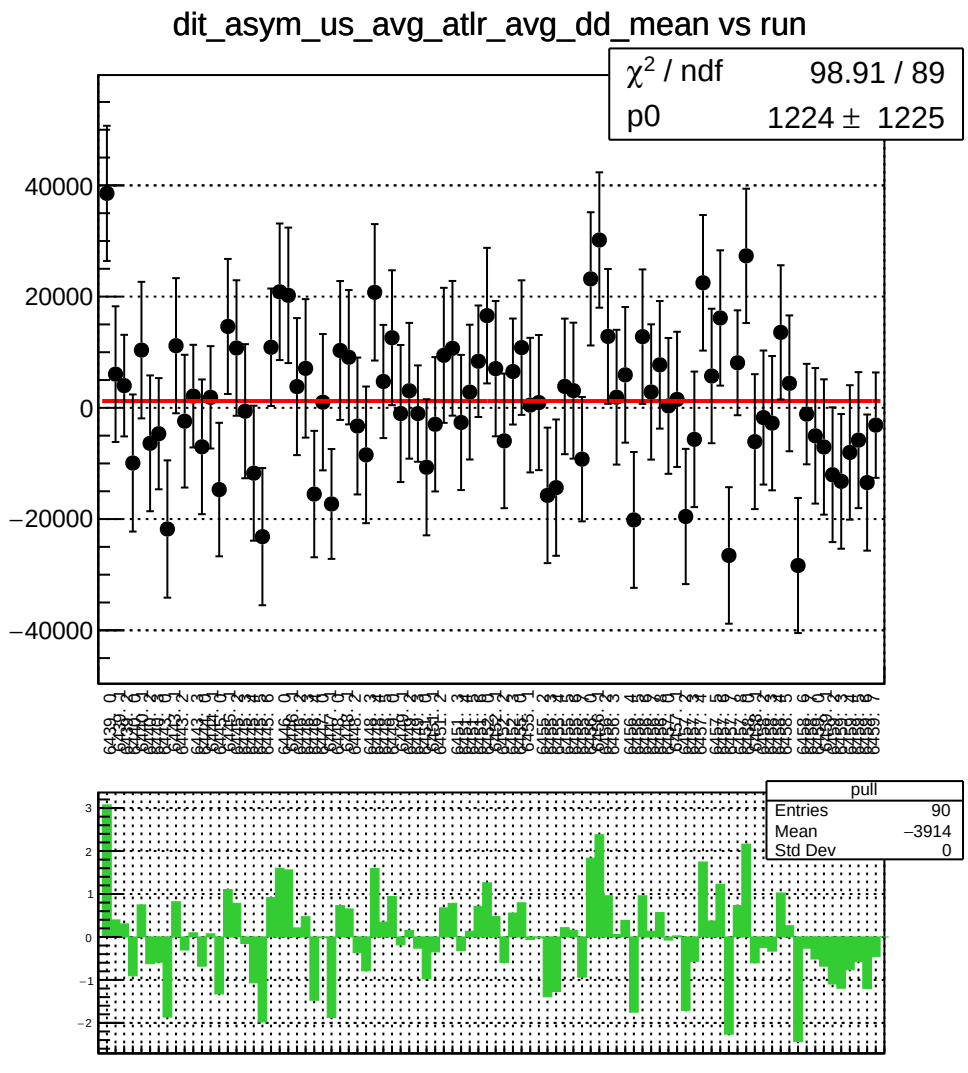

eigen_cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 100.7 / 89
p0 1053 ± 1211
40000
20000
0
−20000
−40000
pull
Entries 90
Mean 4386
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.0009634
Std Dev 1.058
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

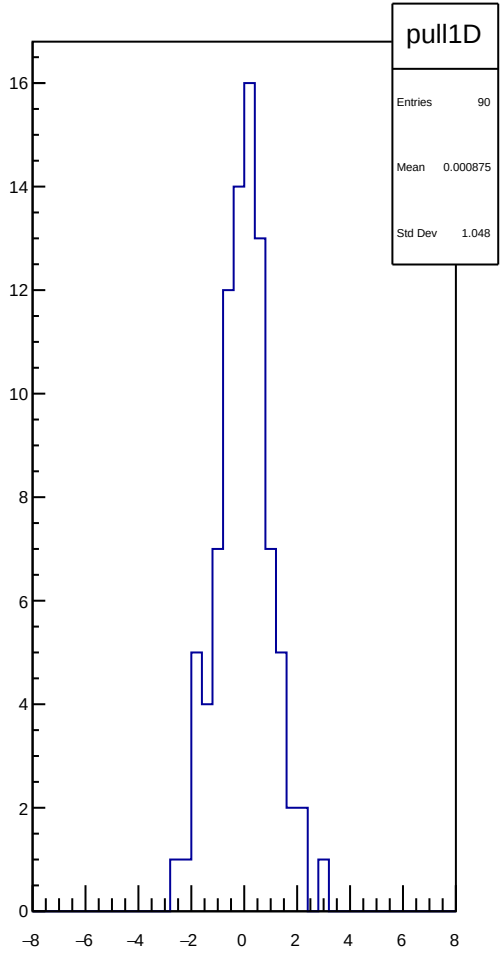

eigen_cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 140.1 / 89
p0 1143 ± 0.856
1190
1180
1170
1160
1150
1140
1130
1120
1110

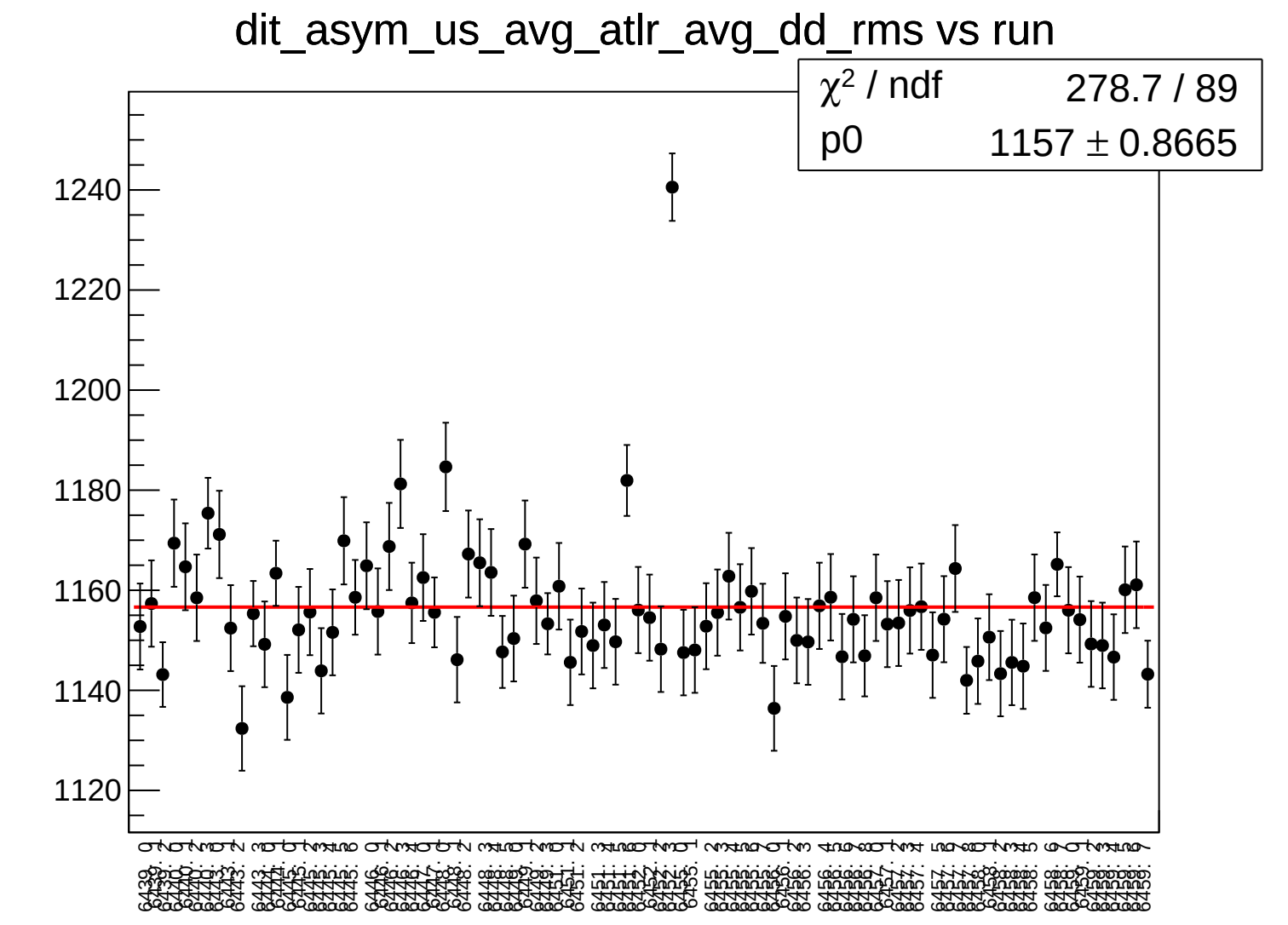

asym_us_avg_atlr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 82.05 / 89
p0 5178 ± 3369
100
50
0
−50
−100
pull
Entries 90
Mean −141.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

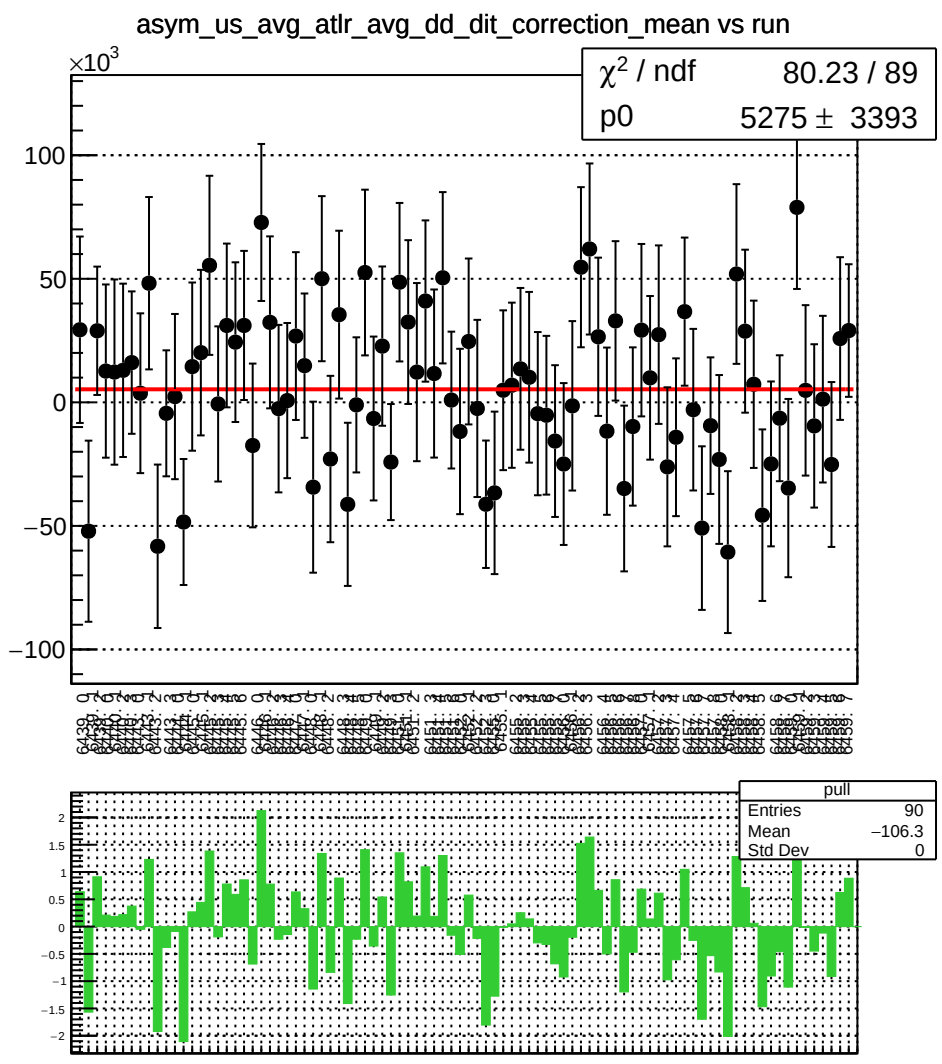

pull1D
Entries 90
Mean 0.01571
Std Dev 0.9547
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

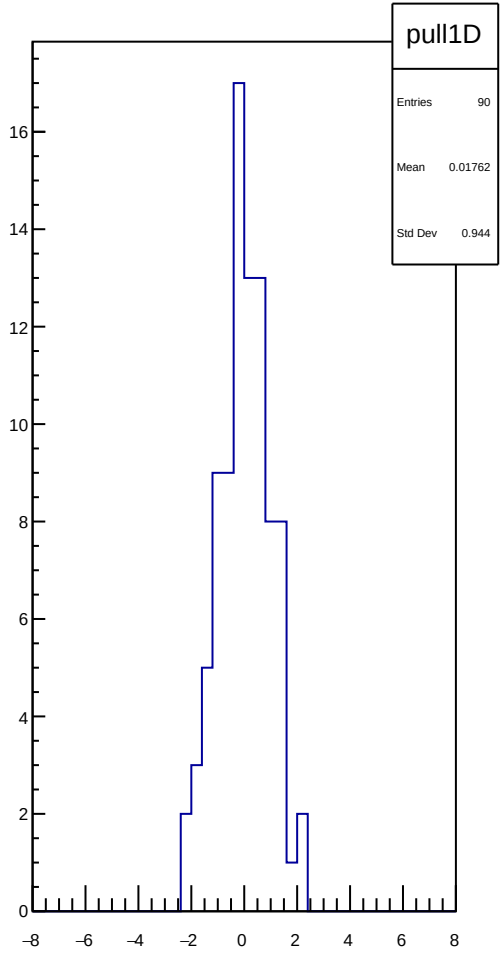

asym_us_avg_atlr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 2724 / 89
p0 3178 ± 2.383
3500
3400
3300
3200
3100
3000
2900
2800

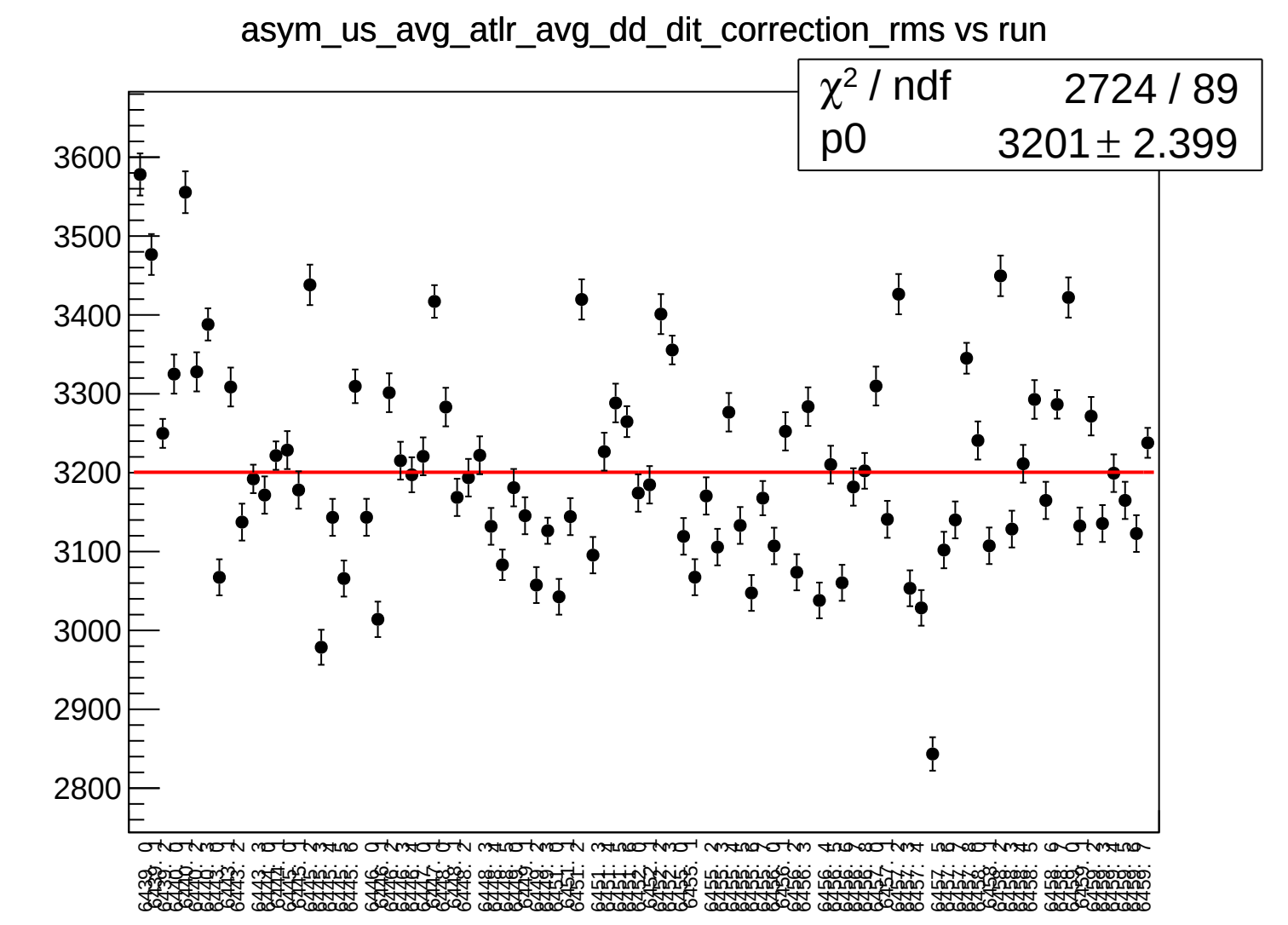

dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 98.91 / 89
p0 1224 ± 1225
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −3914
Std Dev 0
3
2
1
0
−1
−2

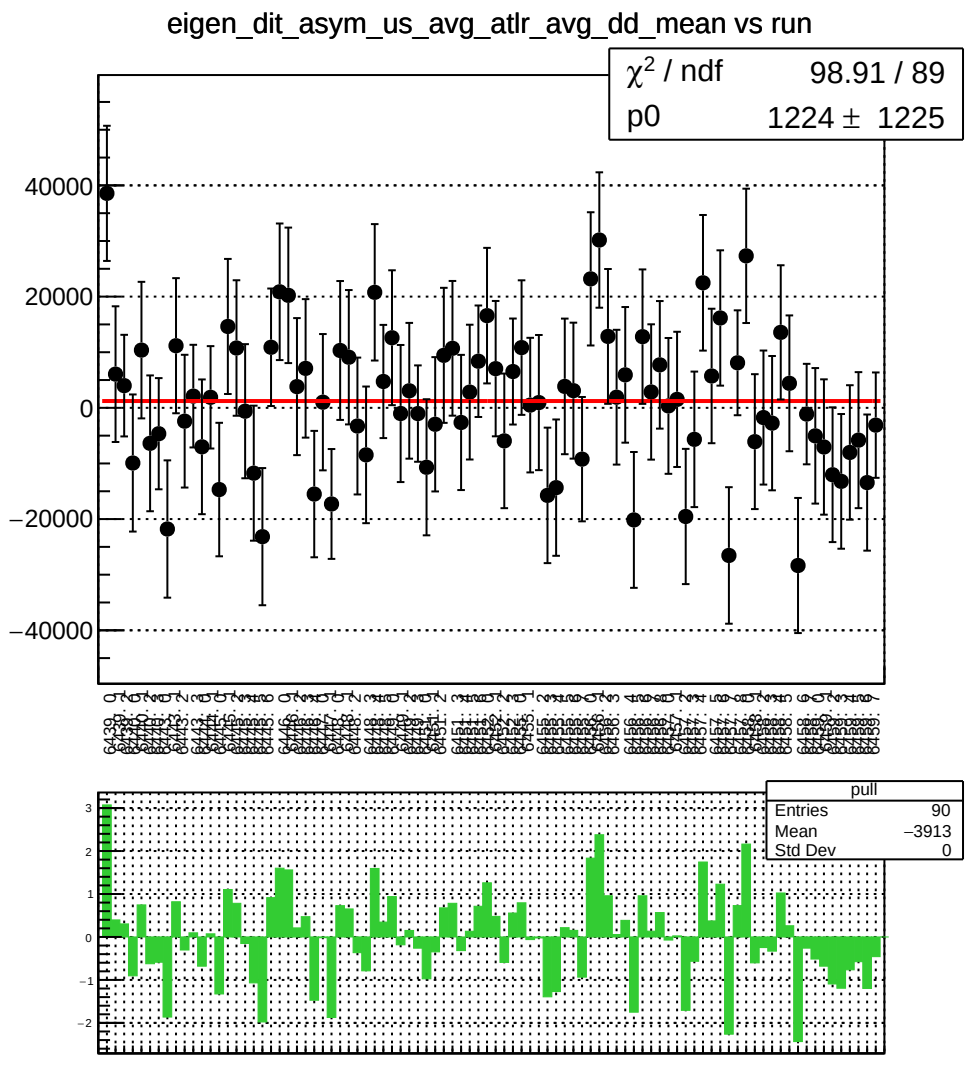

pull1D
Entries 90
Mean 0.000875
Std Dev 1.048
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

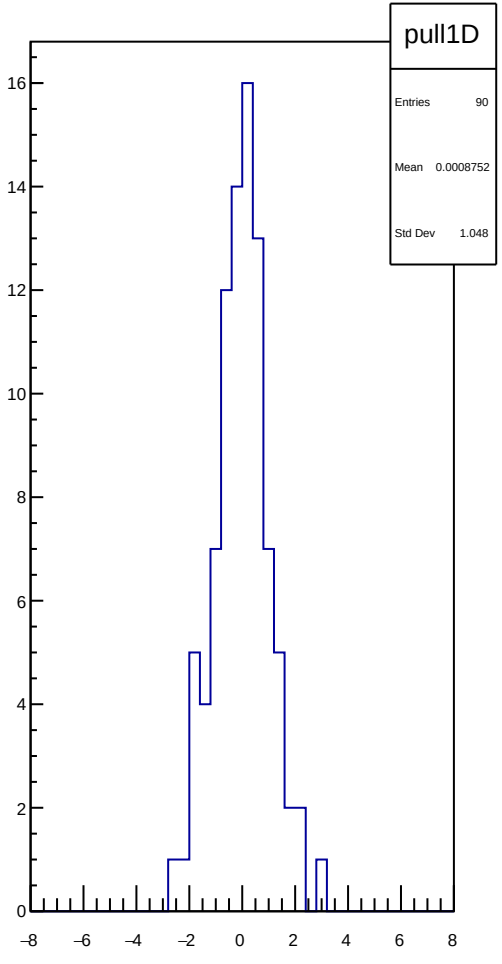

dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 278.7 / 89
p0 1157 ± 0.8665
1240
1220
1200
1180
1160
1140
1120

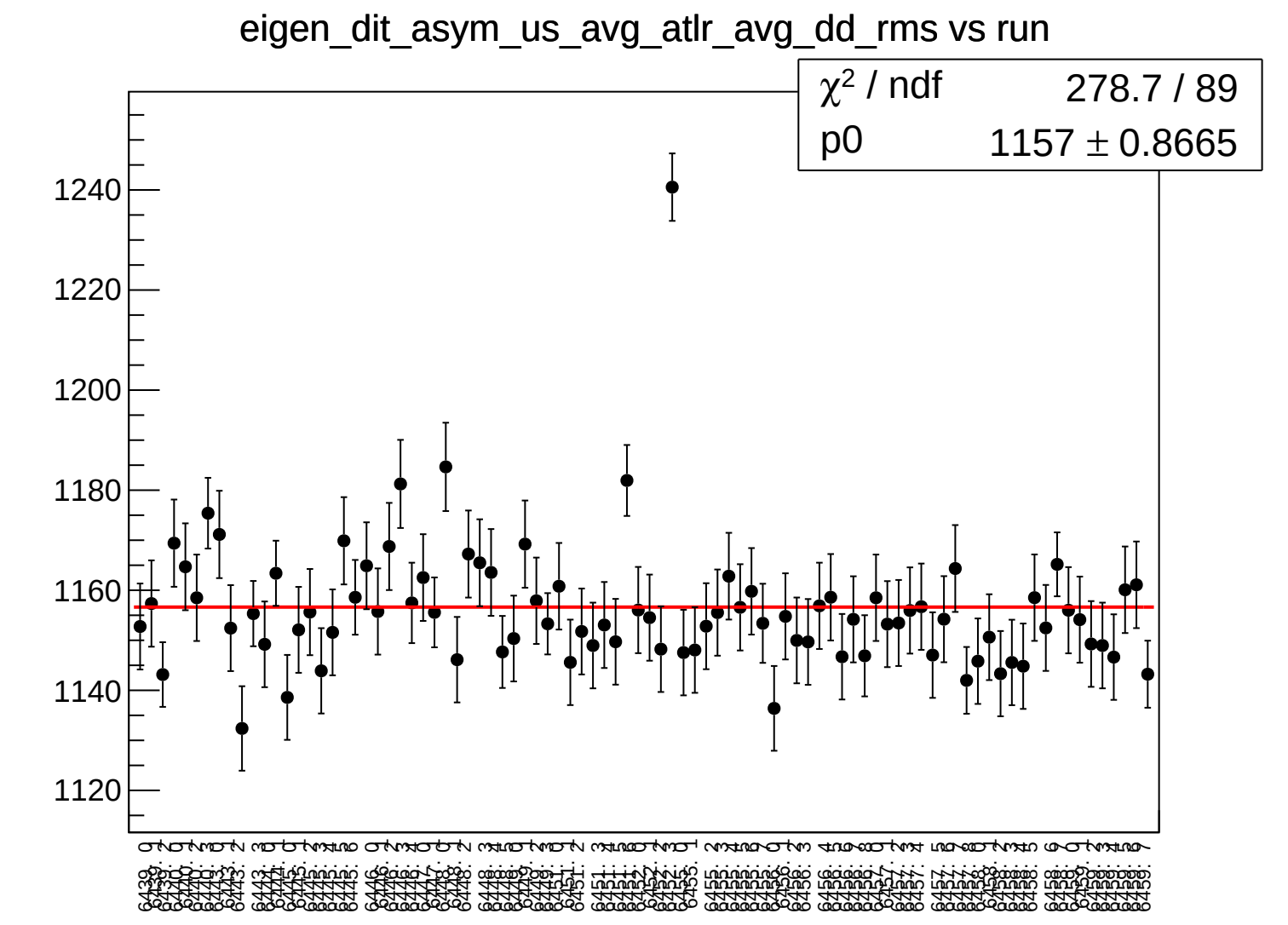

asym_us_avg_atlr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 80.23 / 89
p0 5275 ± 3393
100
50
0
−50
−100
pull
Entries 90
Mean −106.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

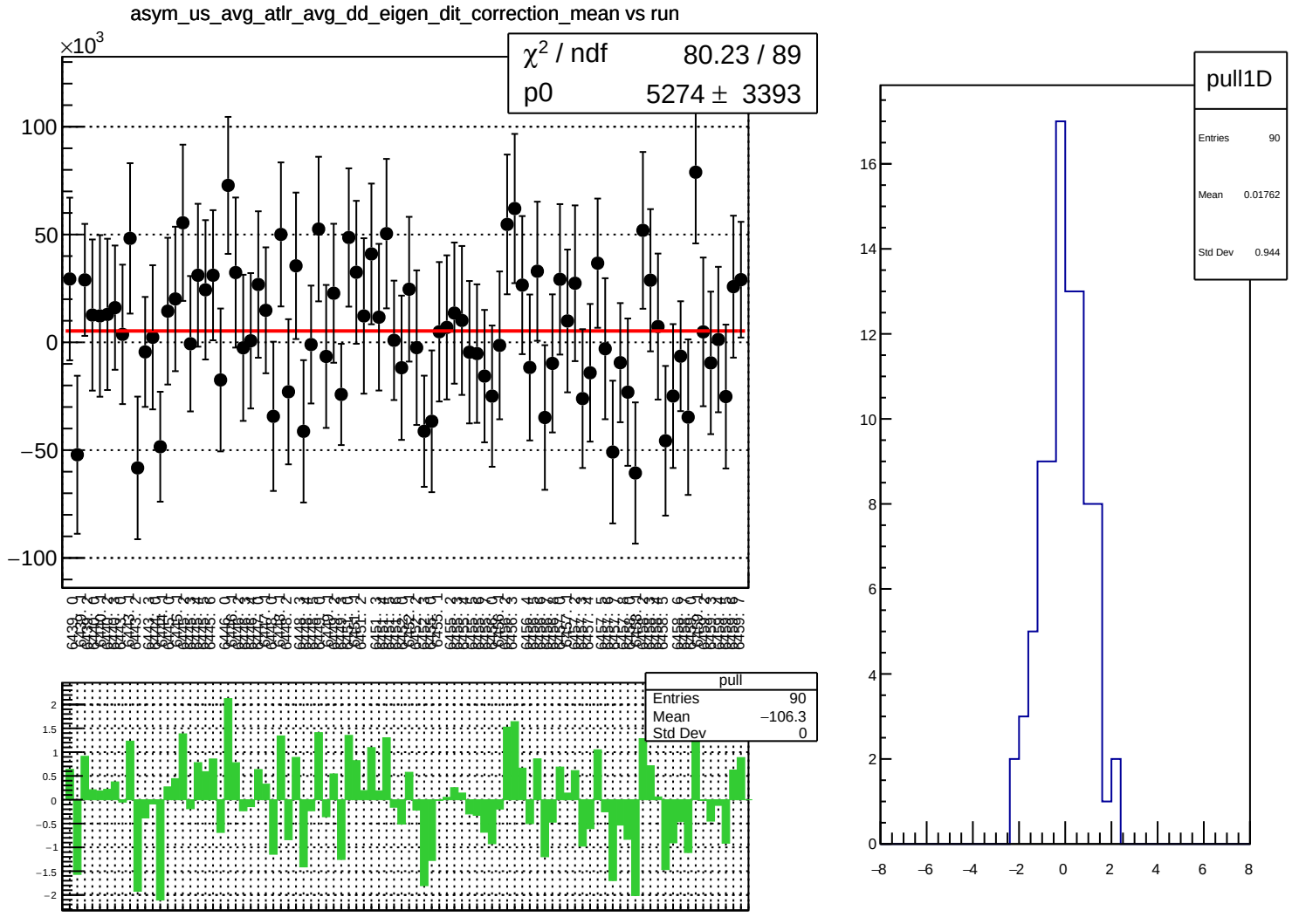

pull1D
Entries 90
Mean 0.01762
Std Dev 0.944
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

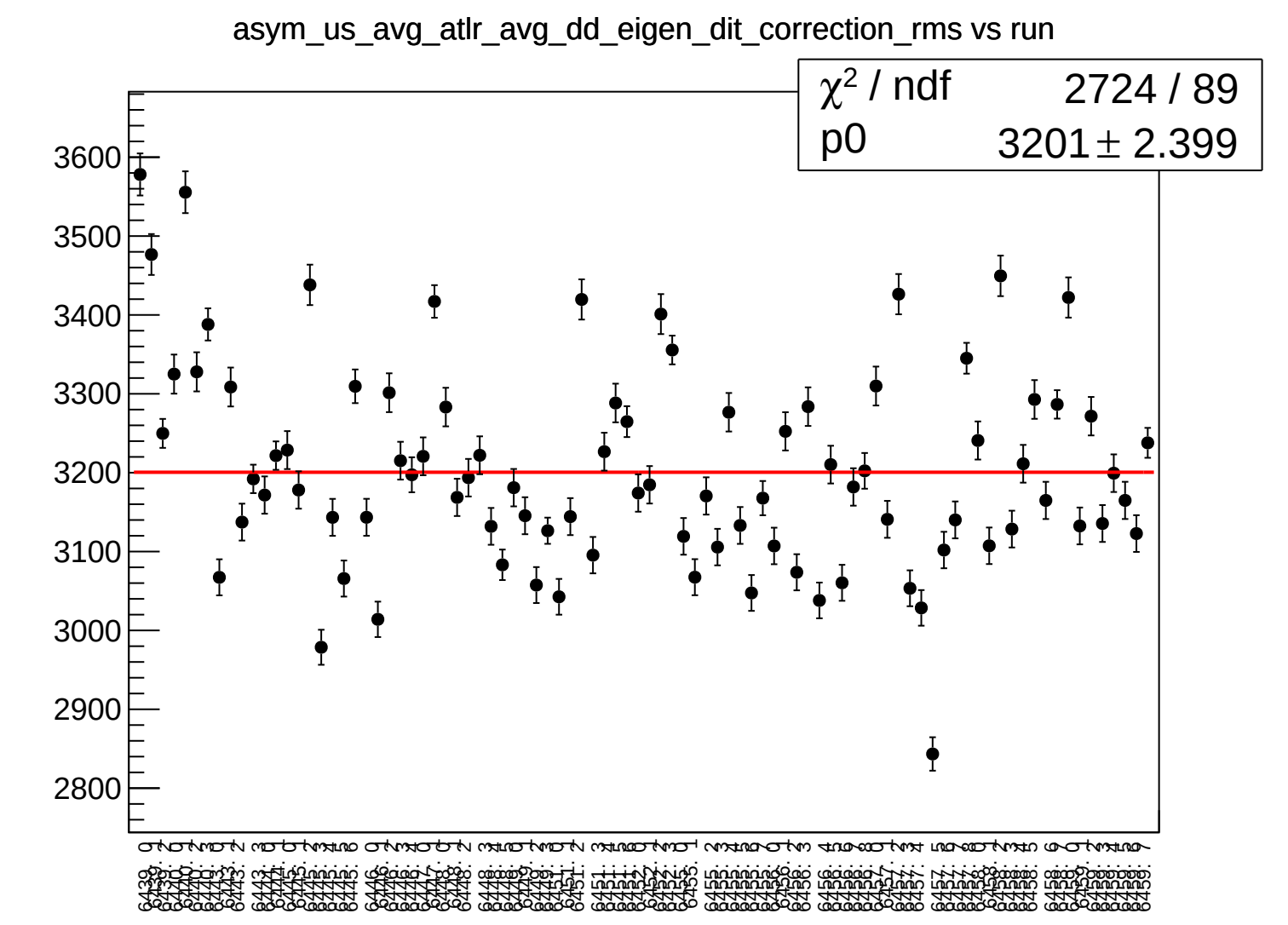

asym_us_avg_atlr_avg_dd_dit_correction_rms vs run
χ² / ndf 2724 / 89
p0 3201 ± 2.399
3600
3500
3400
3300
3200
3100
3000
2900
2800

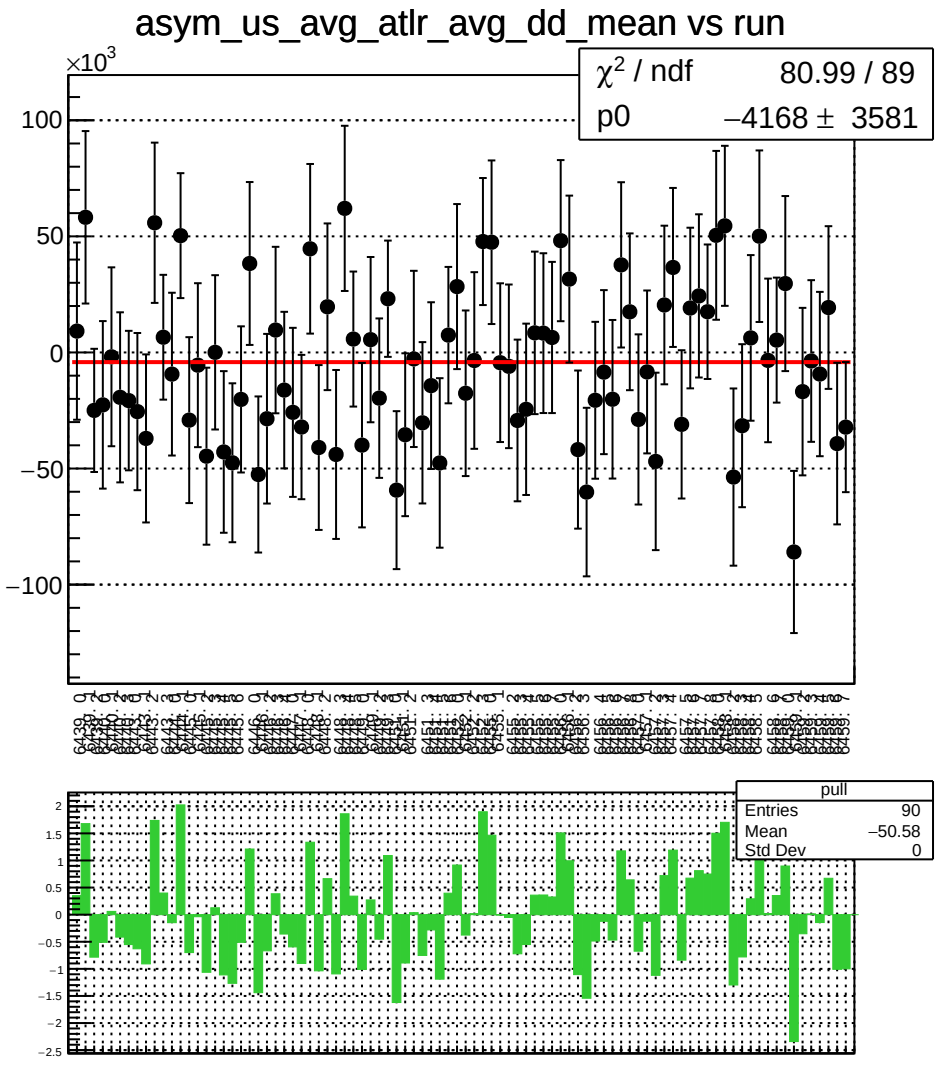

eigen_dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 98.91 / 89
p0 1224 ± 1225
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −3913
Std Dev 0
3
2
1
0
−1
−2

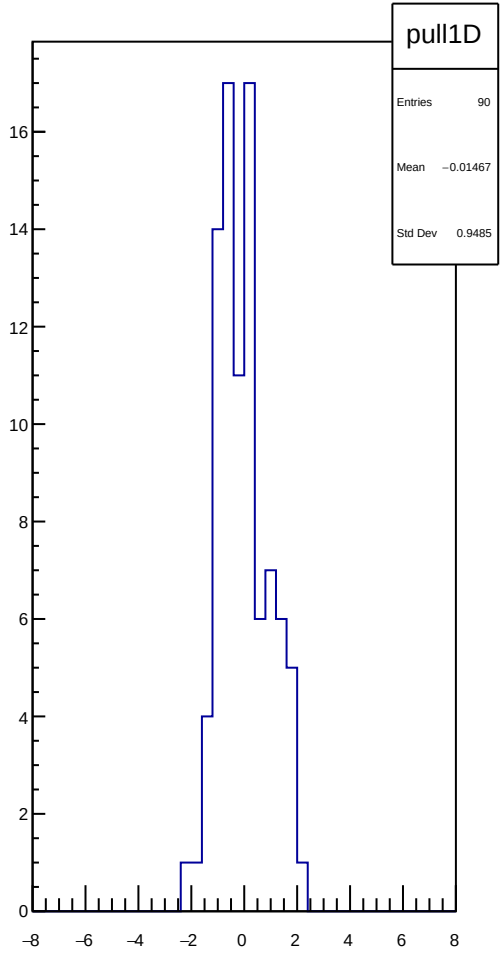

pull1D
Entries 90
Mean 0.0008752
Std Dev 1.048
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

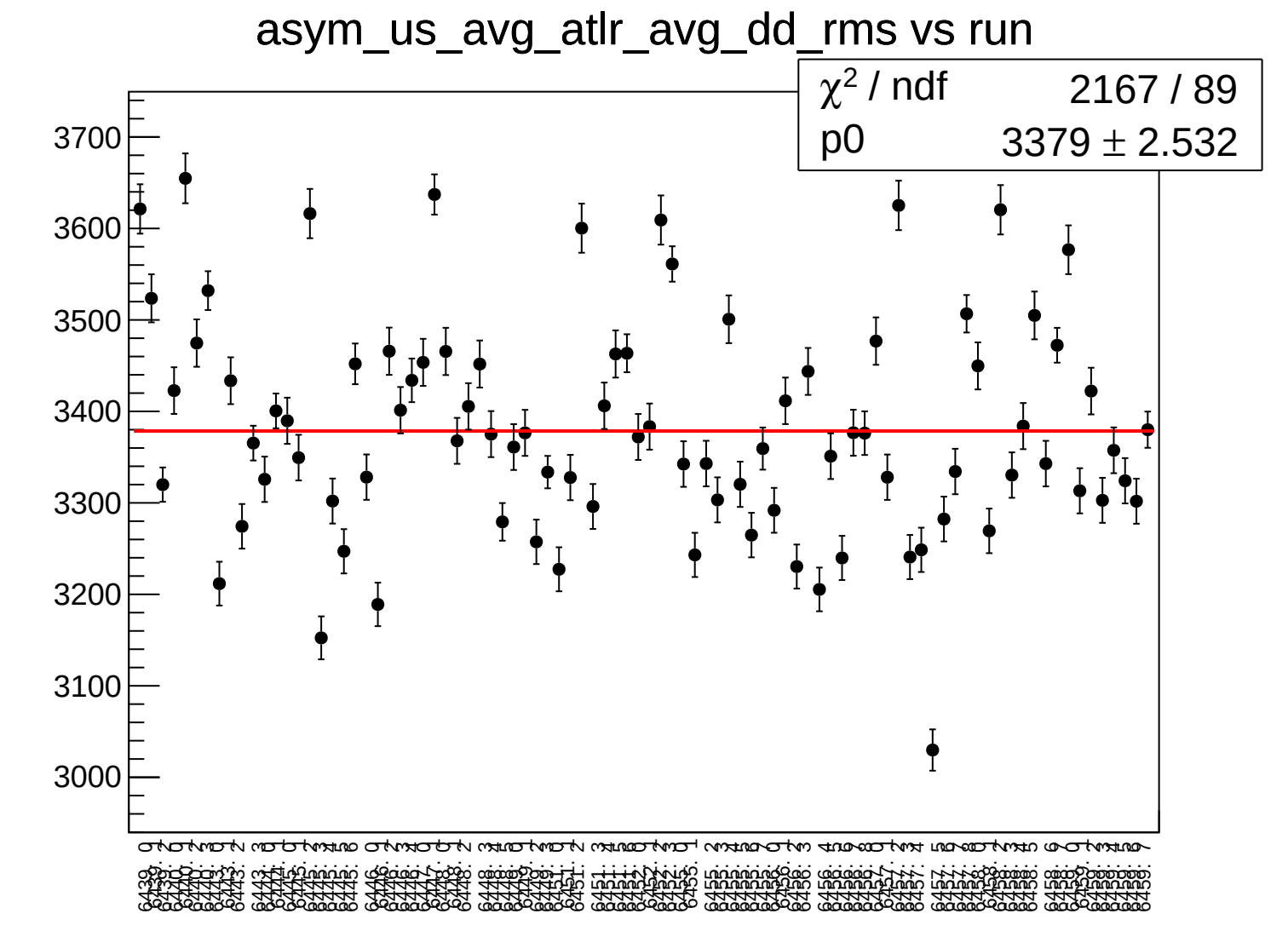

eigen_dit_asym_us_avg_atlr_avg_dd_rms vs run
χ^2 / ndf 278.7 / 89
p0 1157 ± 0.8665
1240
1220
1200
1180
1160
1140
1120

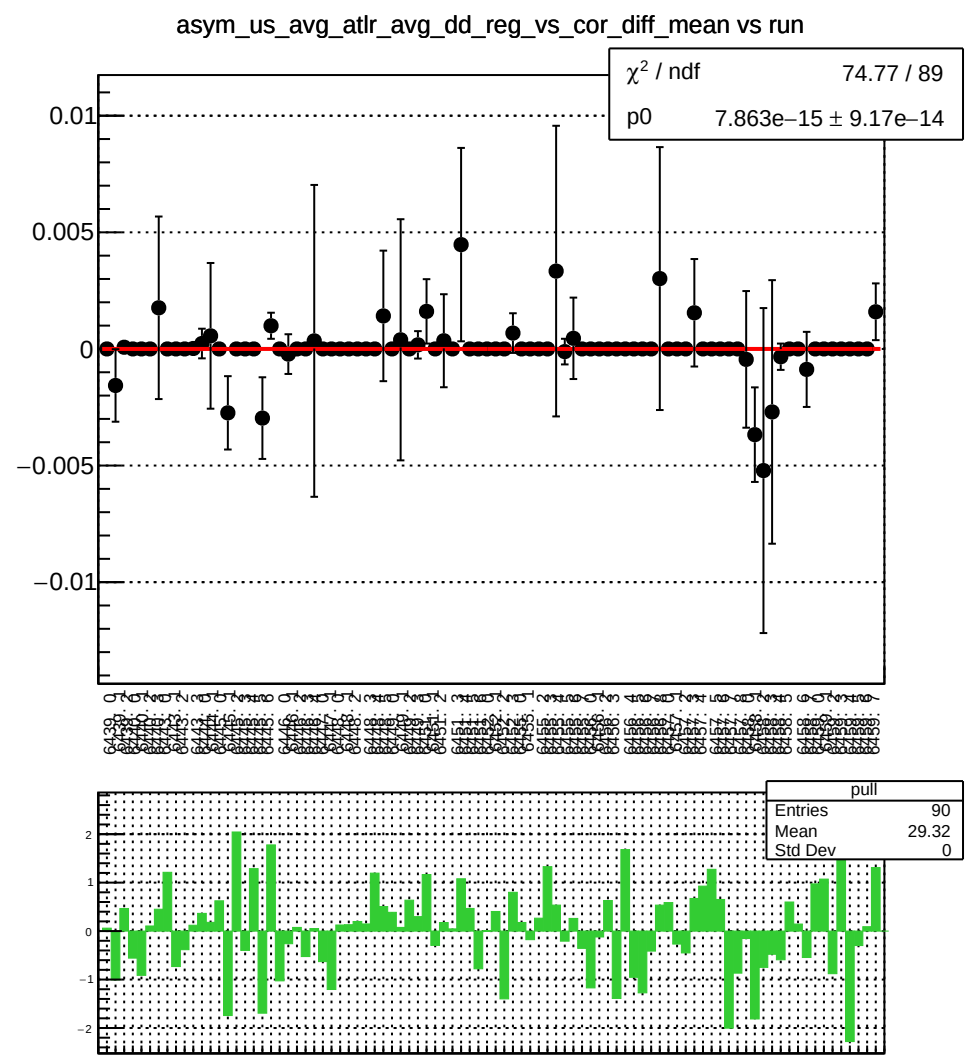

asym_us_avg_atlr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 80.23 / 89
p0 5274 ± 3393
100
50
0
−50
−100
pull
Entries 90
Mean −106.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 90
Mean 0.01762
Std Dev 0.944
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

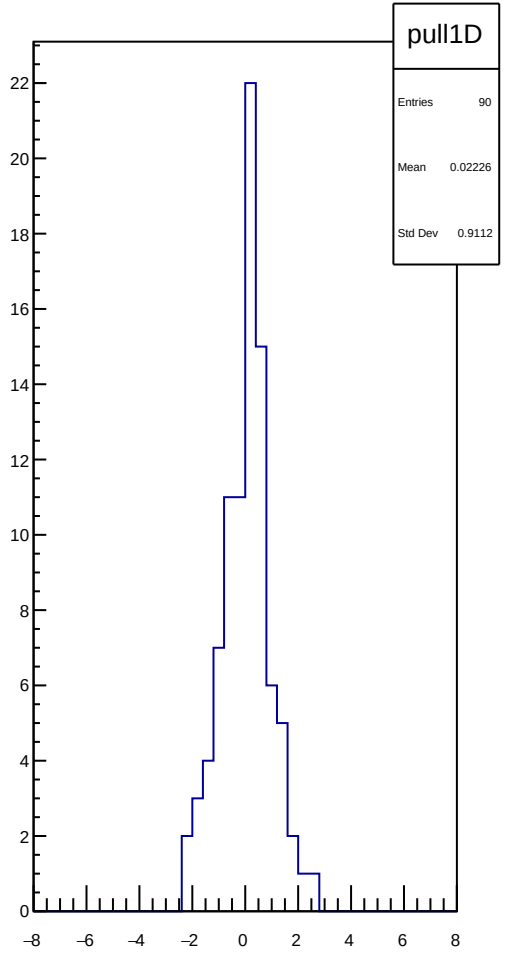

asym_us_avg_atlr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 2724 / 89
p0 3201 ± 2.399
3600
3500
3400
3300
3200
3100
3000
2900
2800

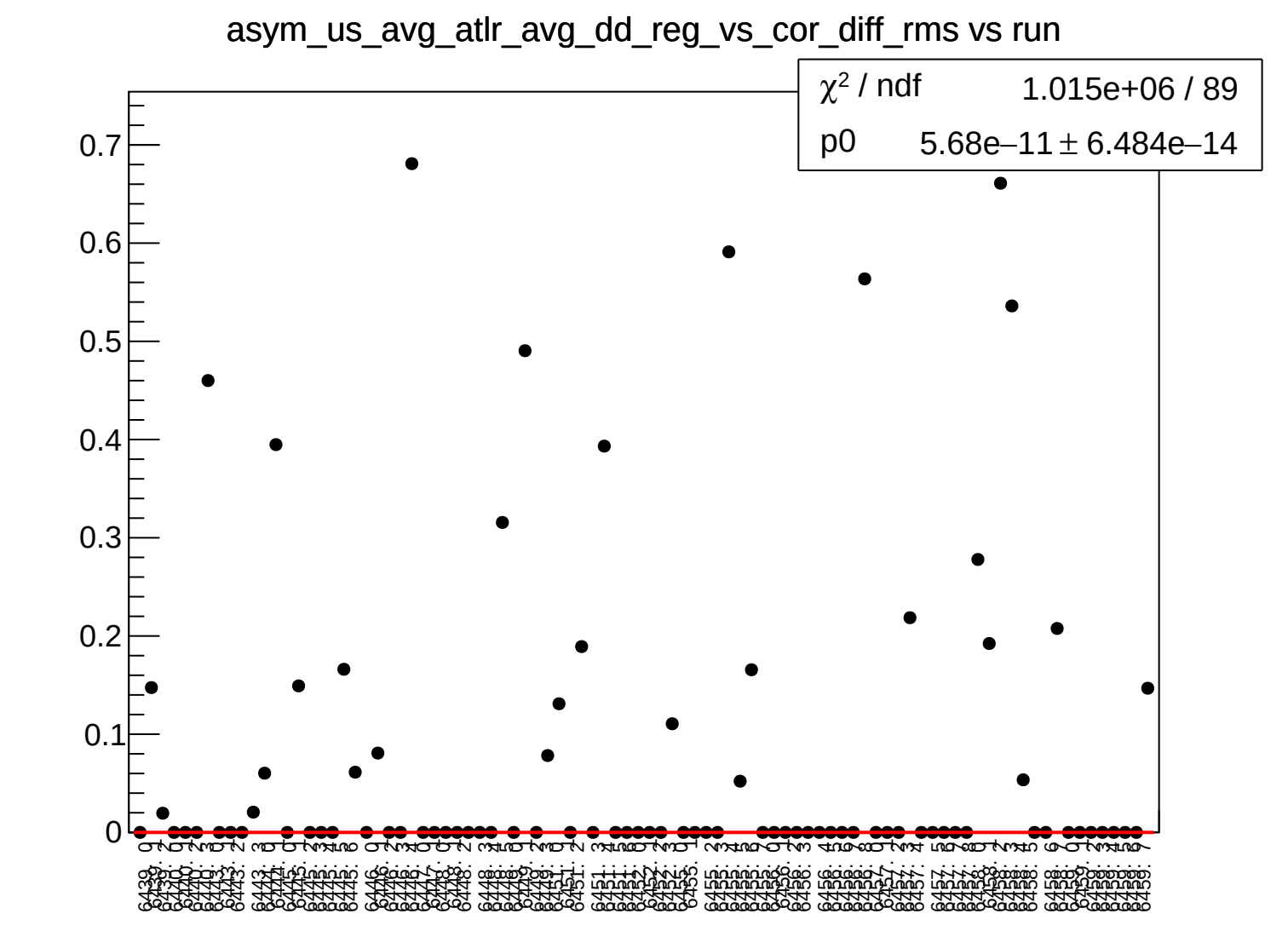

asym_us_avg_atlr_avg_dd_mean vs run
×10^3
χ² / ndf 80.99 / 89
p0 −4168 ± 3581
100
50
0
−50
−100
pull
Entries 90
Mean −50.58
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

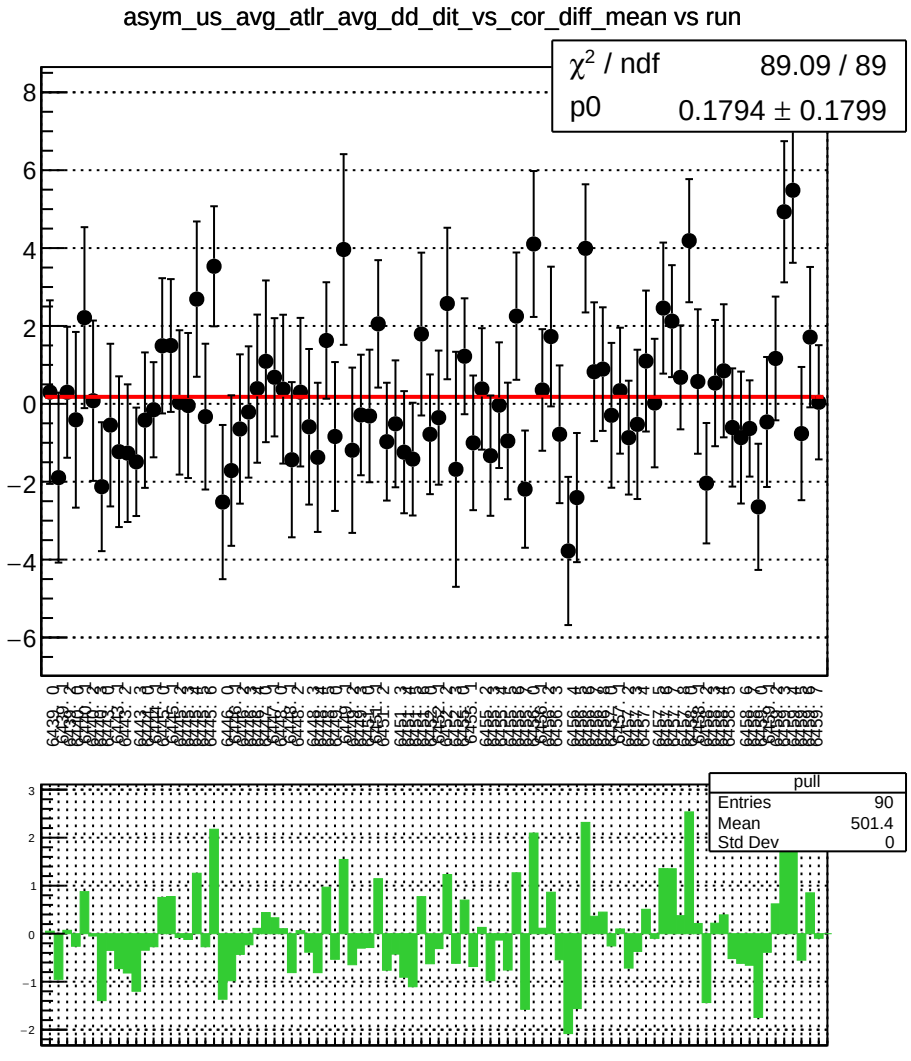

pull1D
Entries 90
Mean −0.01467
Std Dev 0.9485
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

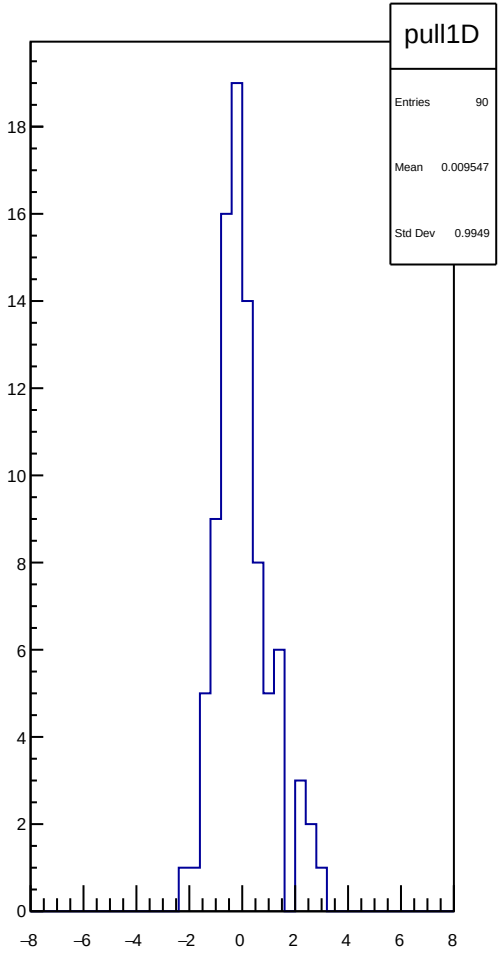

asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 2167 / 89
p0 3379 ± 2.532
3700
3600
3500
3400
3300
3200
3100
3000

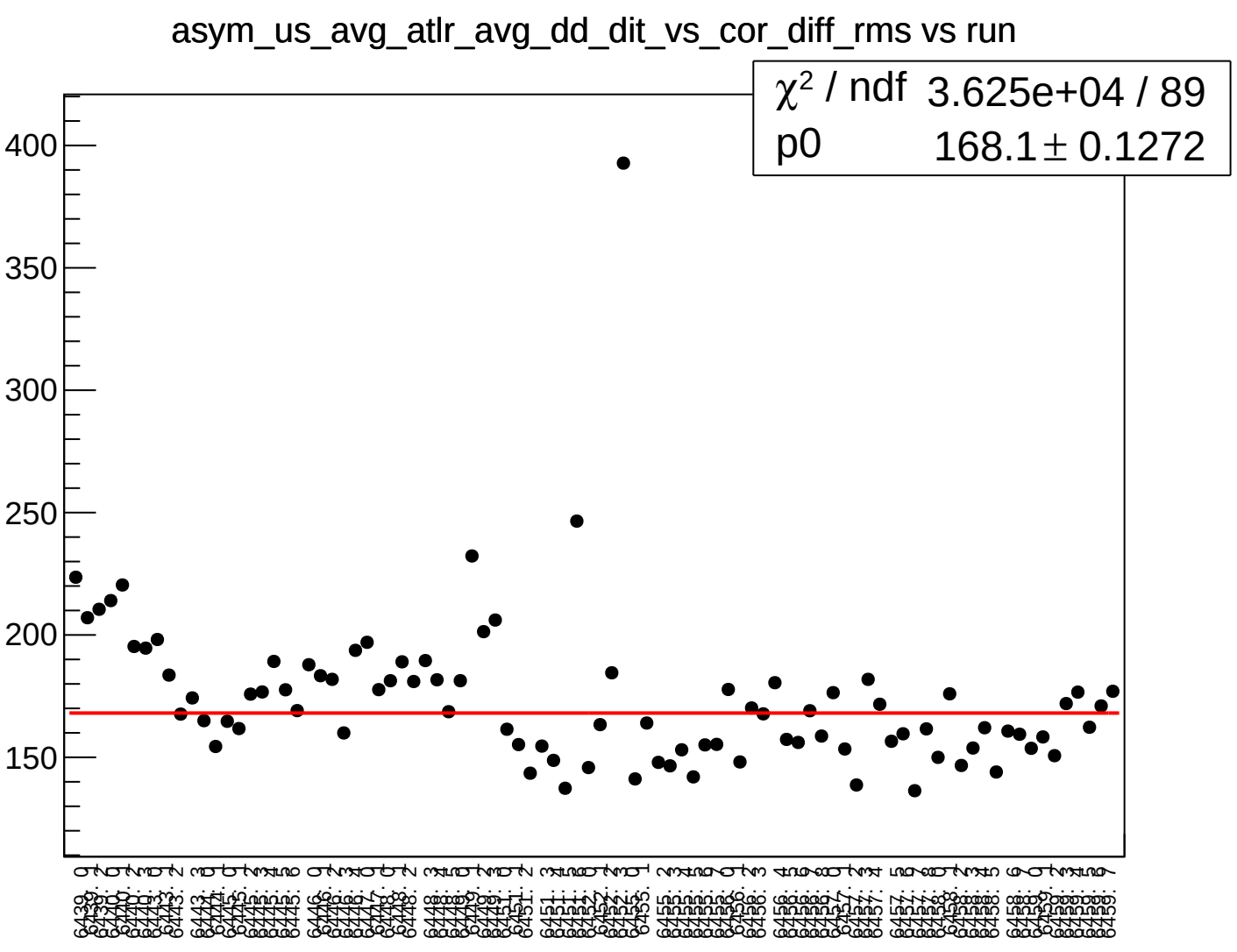

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 74.77 / 89
p0 7.863e−15 ± 9.17e−14
0.01
0.005
0
−0.005
−0.01
pull
Entries 90
Mean 29.32
Std Dev 0
2
1
0
−1
−2

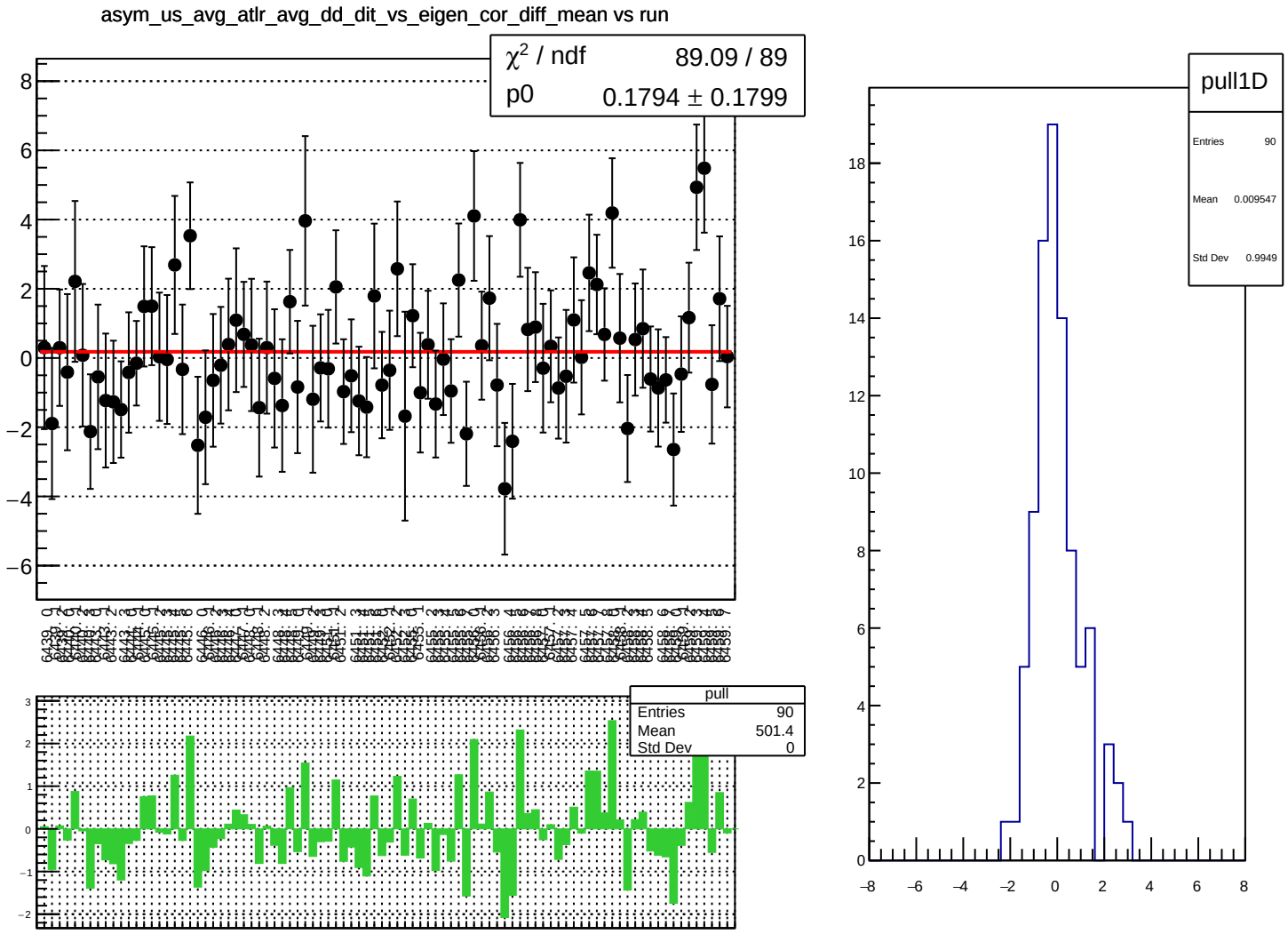

pull1D
Entries 90
Mean 0.02226
Std Dev 0.9112
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

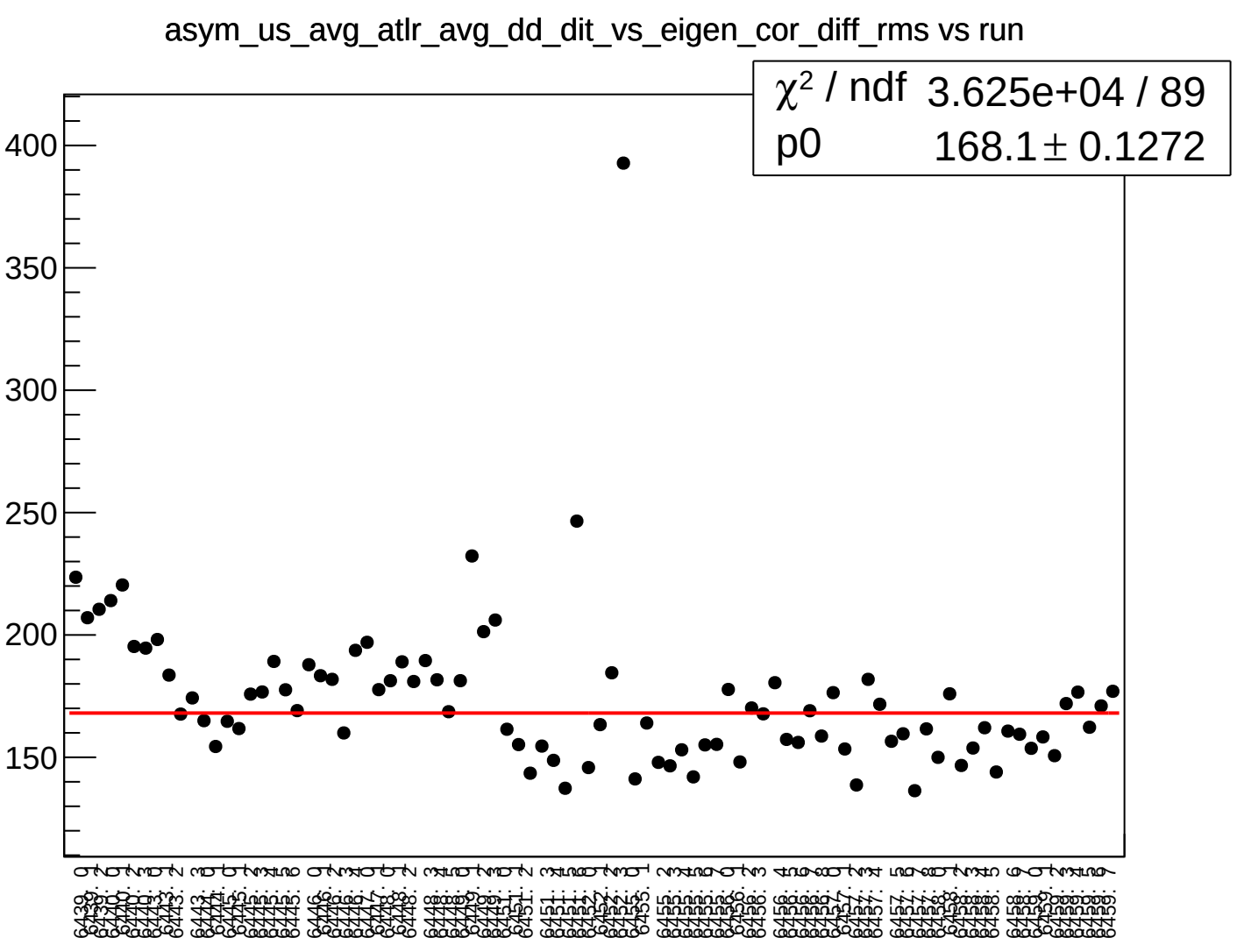

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.015e+06 / 89
p0 5.68e−11 ± 6.484e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

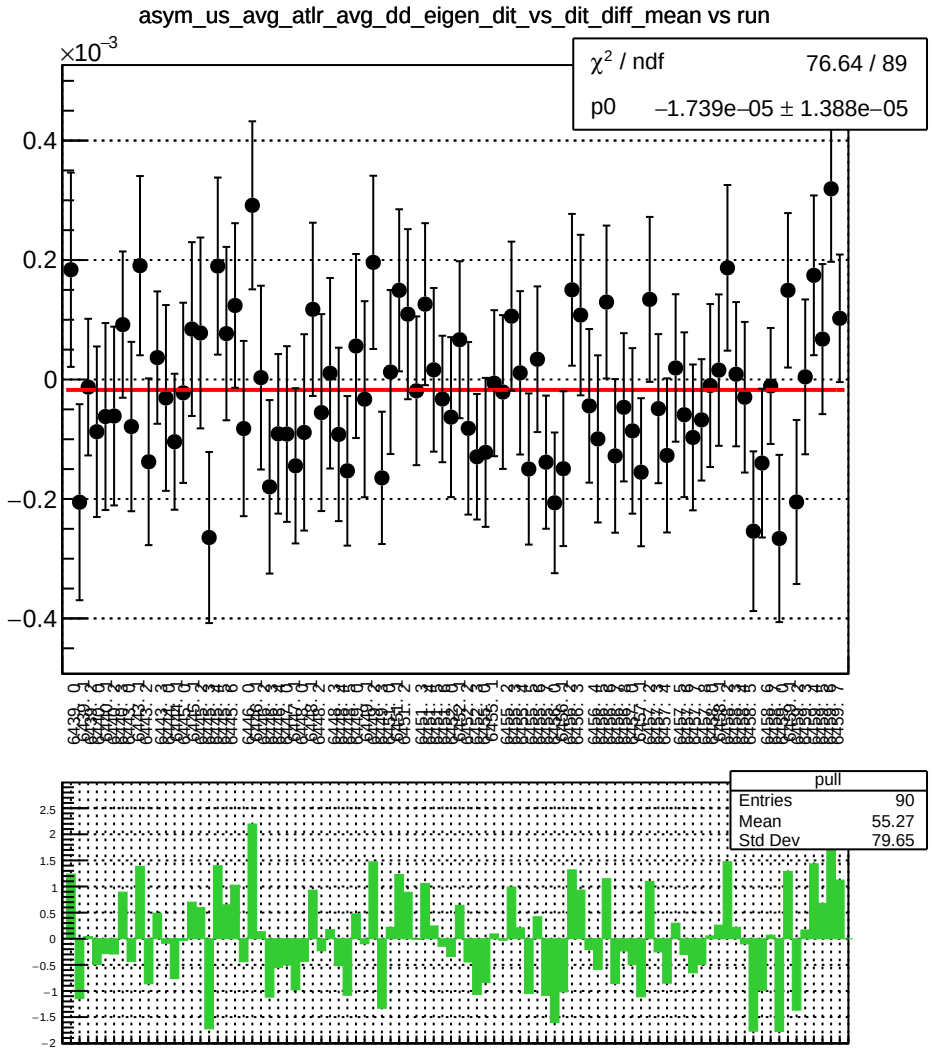

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 89.09 / 89
p0 0.1794 ± 0.1799
pull
Entries 90
Mean 501.4
Std Dev 0

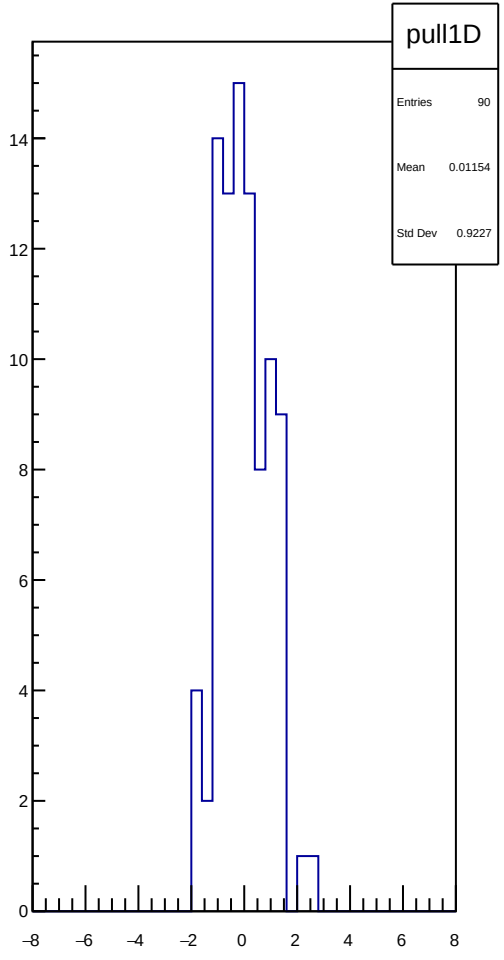

pull1D
Entries 90
Mean 0.009547
Std Dev 0.9949

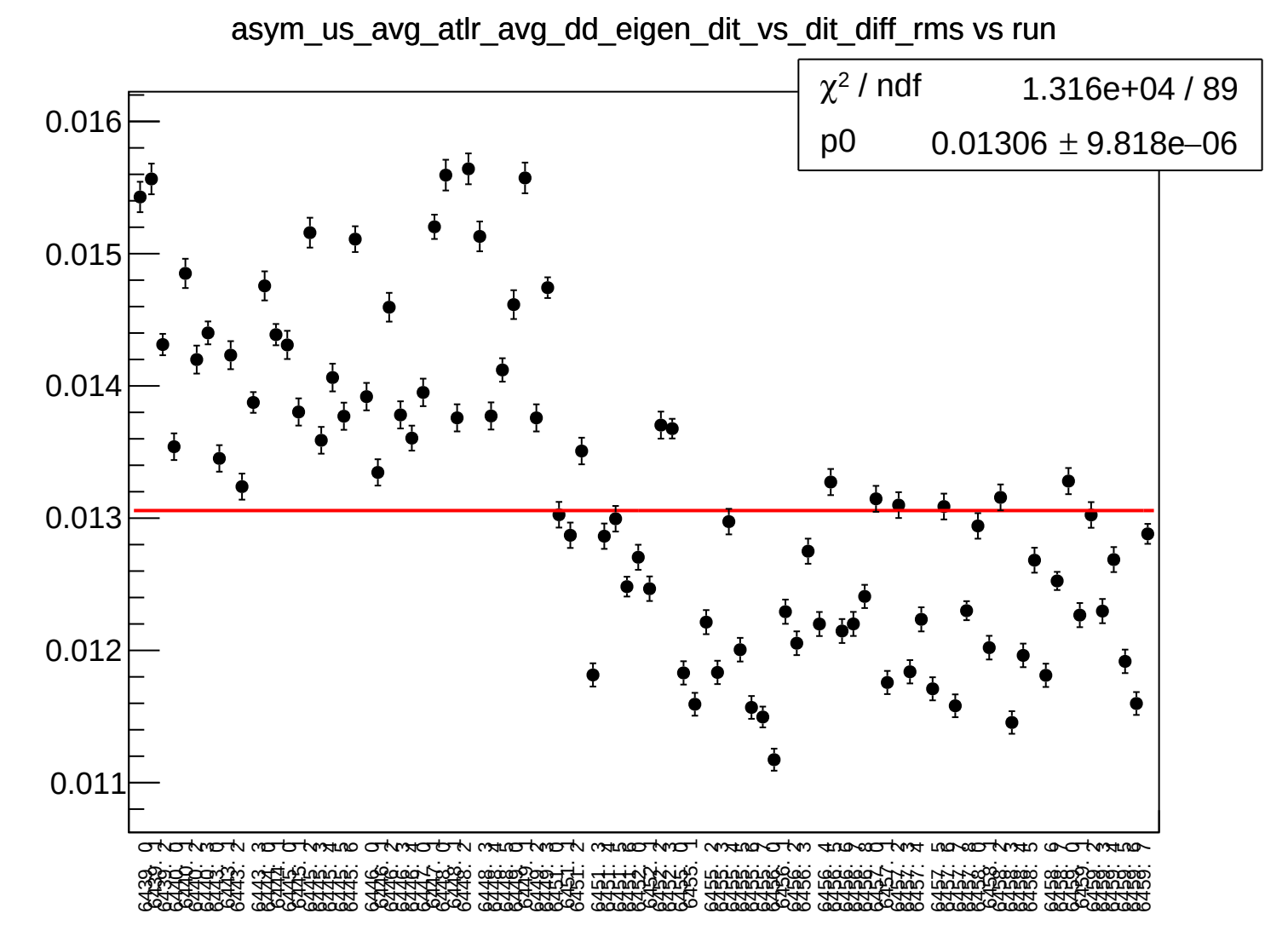

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.625e+04 / 89
p0 168.1 ± 0.1272
400
350
300
250
200
150

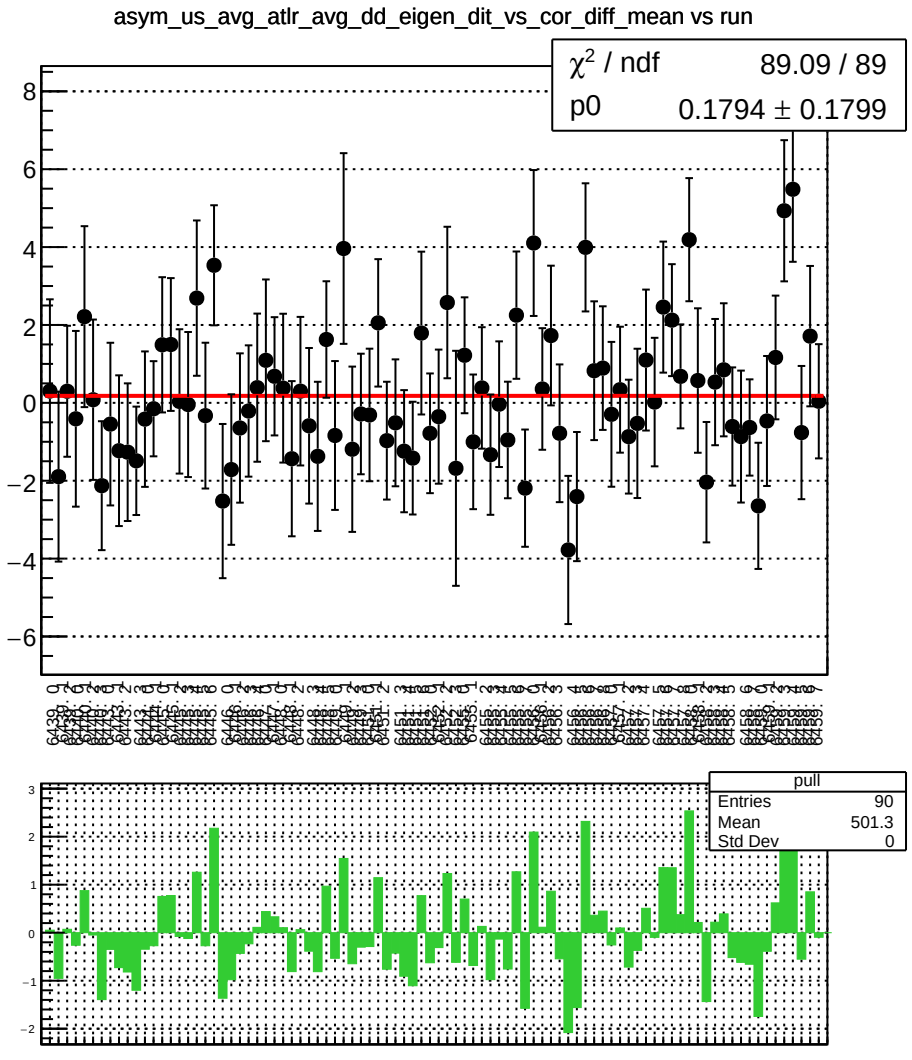

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.09 / 89
p0 0.1794 ± 0.1799
pull
Entries 90
Mean 501.4
Std Dev 0
pull1D
Entries 90
Mean 0.009547
Std Dev 0.9949

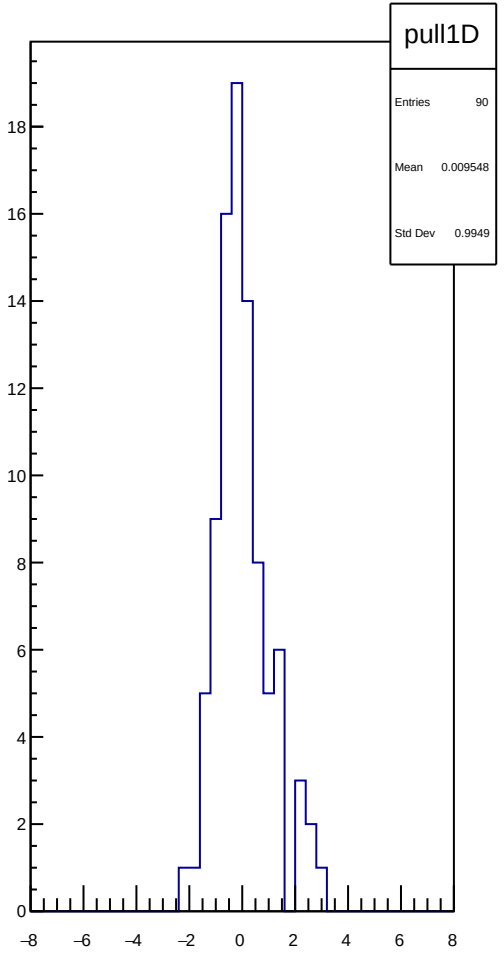

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.625e+04 / 89
p0 168.1 ± 0.1272
400
350
300
250
200
150

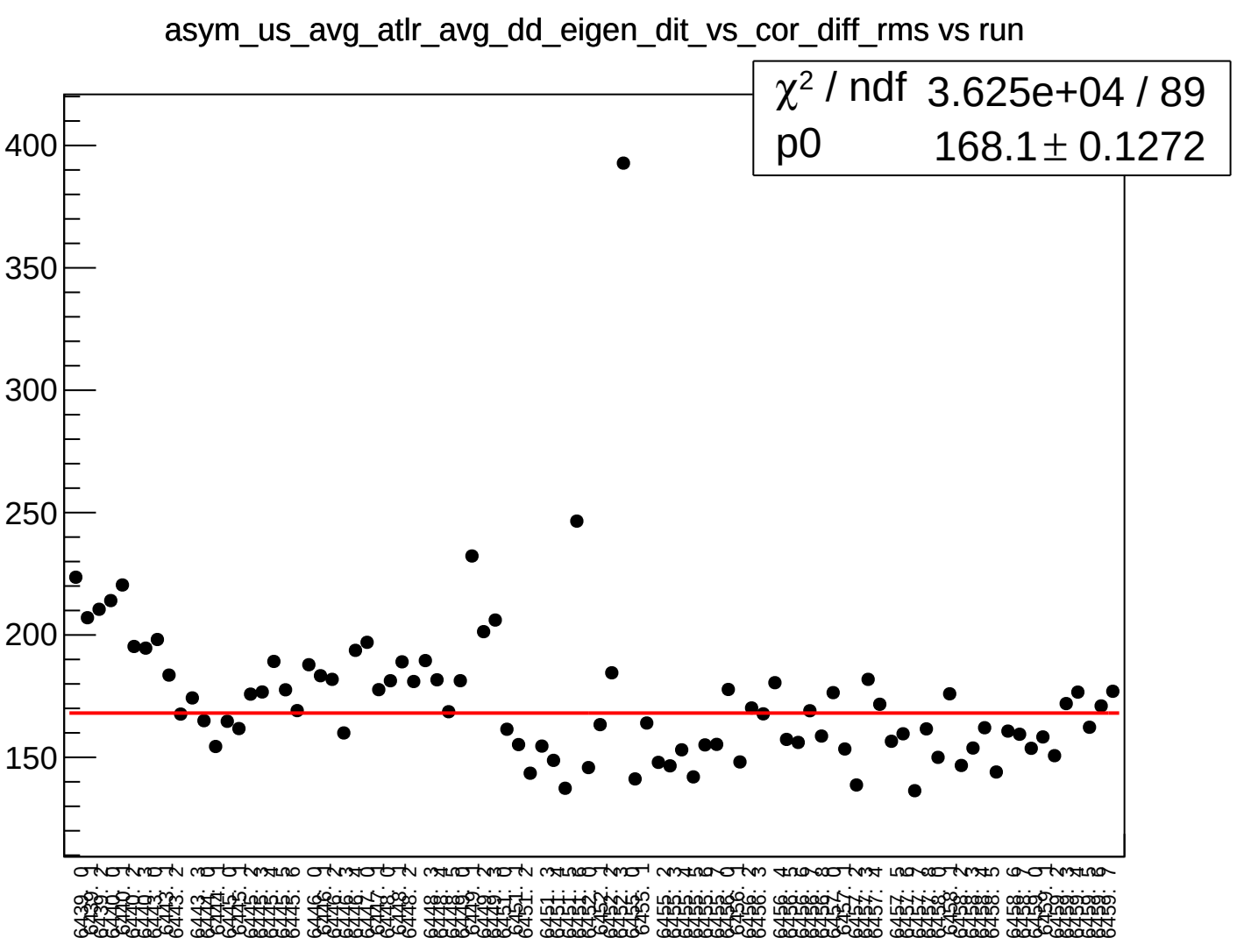

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 76.64 / 89
p0 −1.739e−05 ± 1.388e−05
0.4
0.2
0
−0.2
−0.4
pull
Entries 90
Mean 55.27
Std Dev 79.65
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

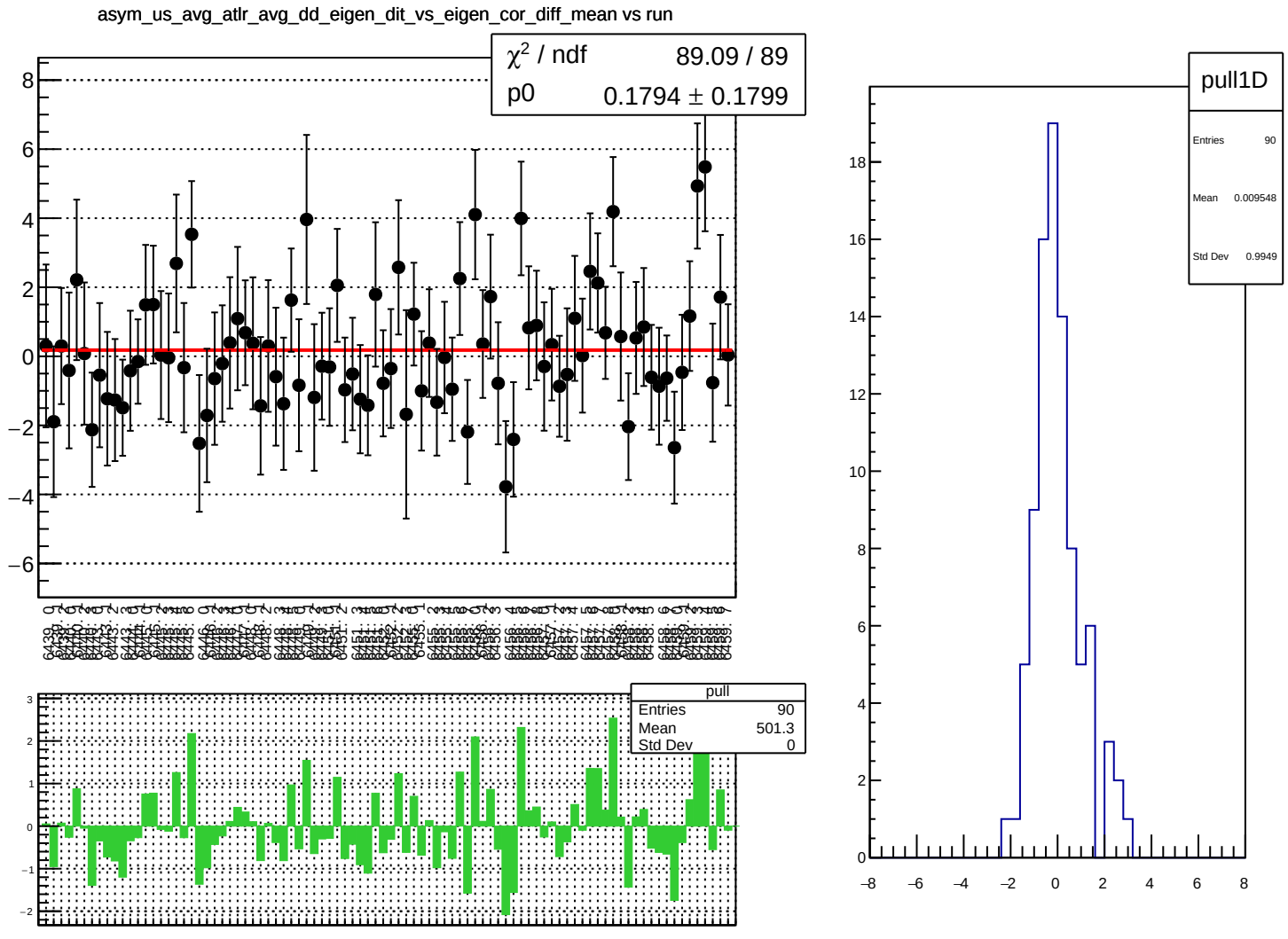

pull1D
Entries 90
Mean 0.01154
Std Dev 0.9227
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

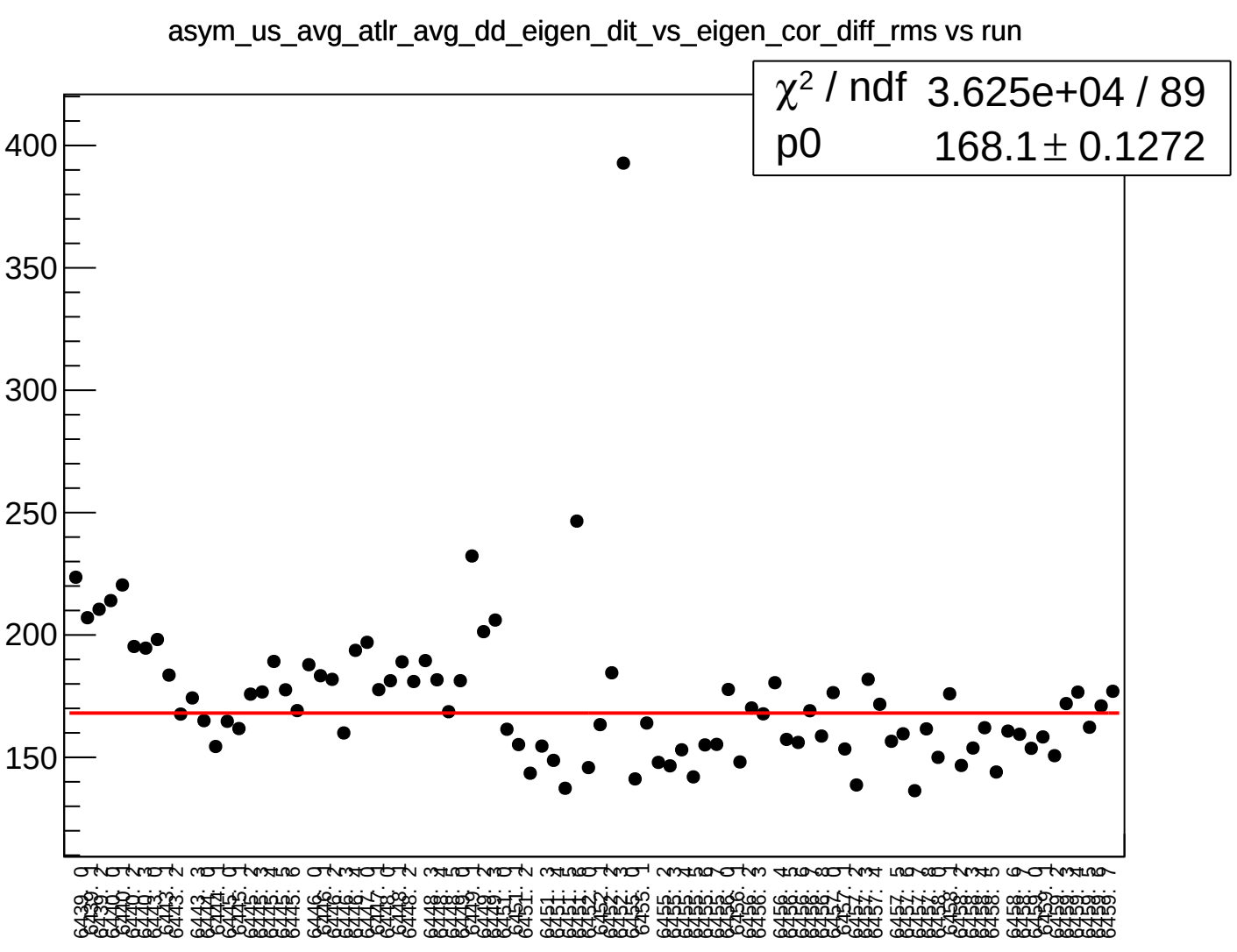

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.316e+04 / 89
p0 0.01306 ± 9.818e–06
0.016
0.015
0.014
0.013
0.012
0.011

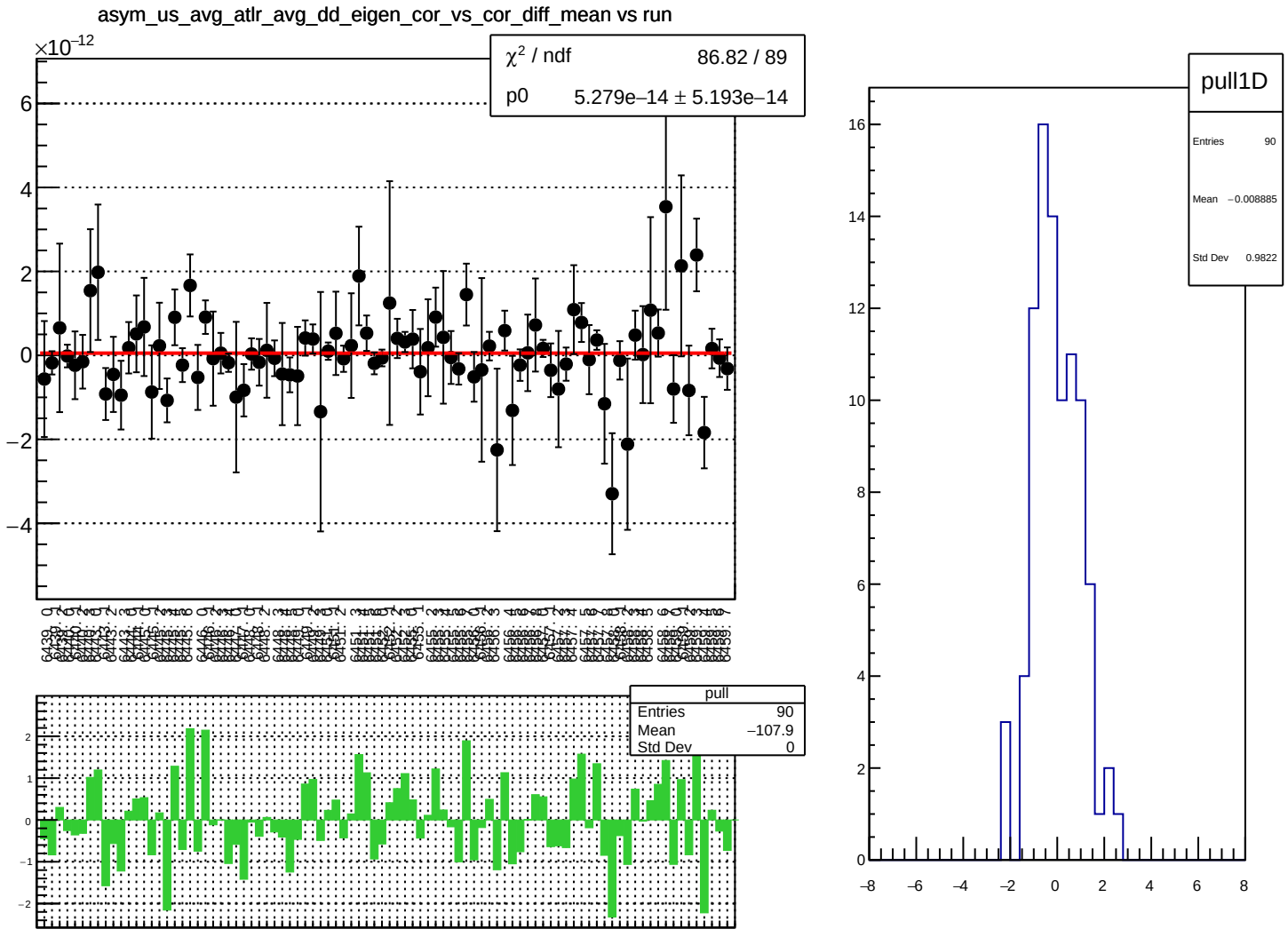

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.09 / 89
p0 0.1794 ± 0.1799
pull
Entries 90
Mean 501.3
Std Dev 0

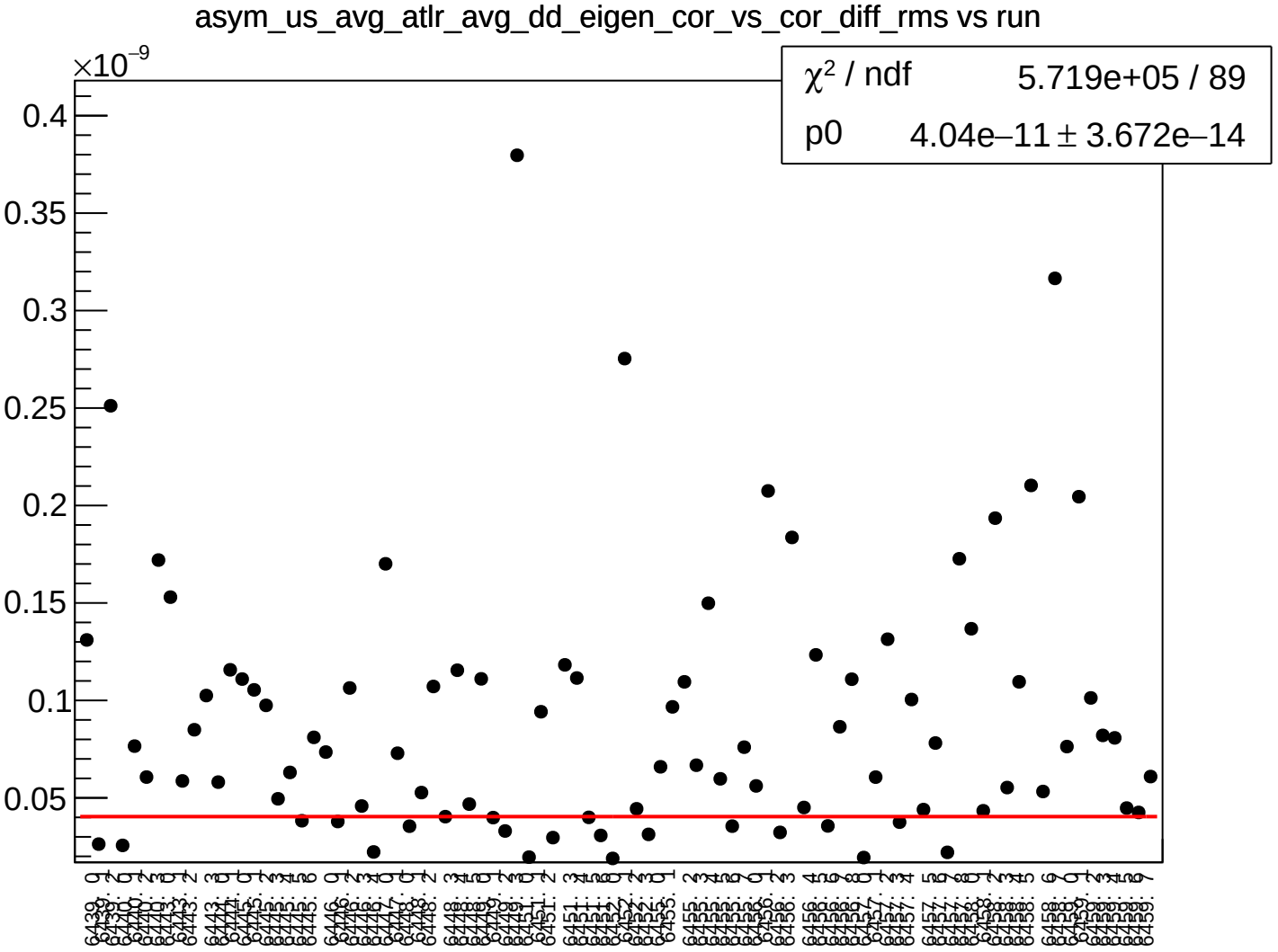

pull1D
Entries 90
Mean 0.009548
Std Dev 0.9949

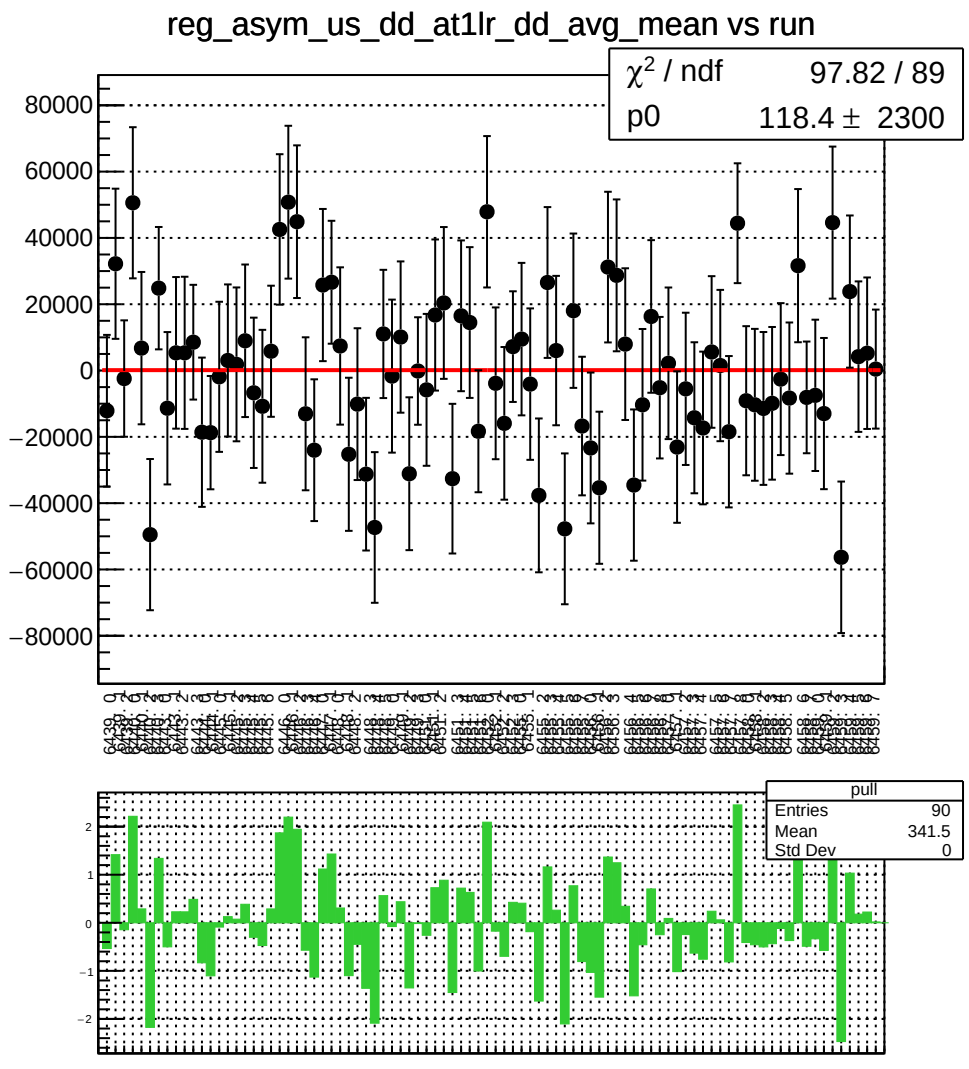

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.625e+04 / 89
p0 168.1 ± 0.1272
400
350
300
250
200
150

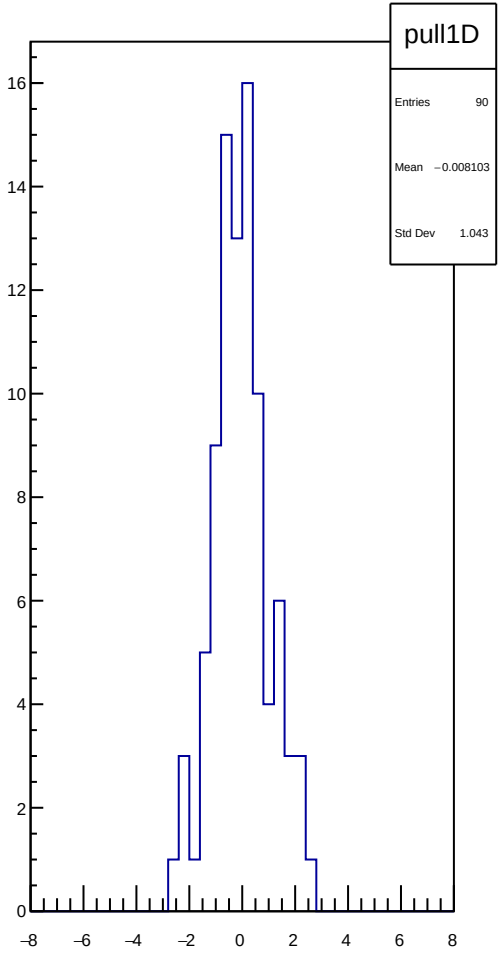

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.09 / 89
p0 0.1794 ± 0.1799
pull
Entries 90
Mean 501.3
Std Dev 0
pull1D
Entries 90
Mean 0.009548
Std Dev 0.9949

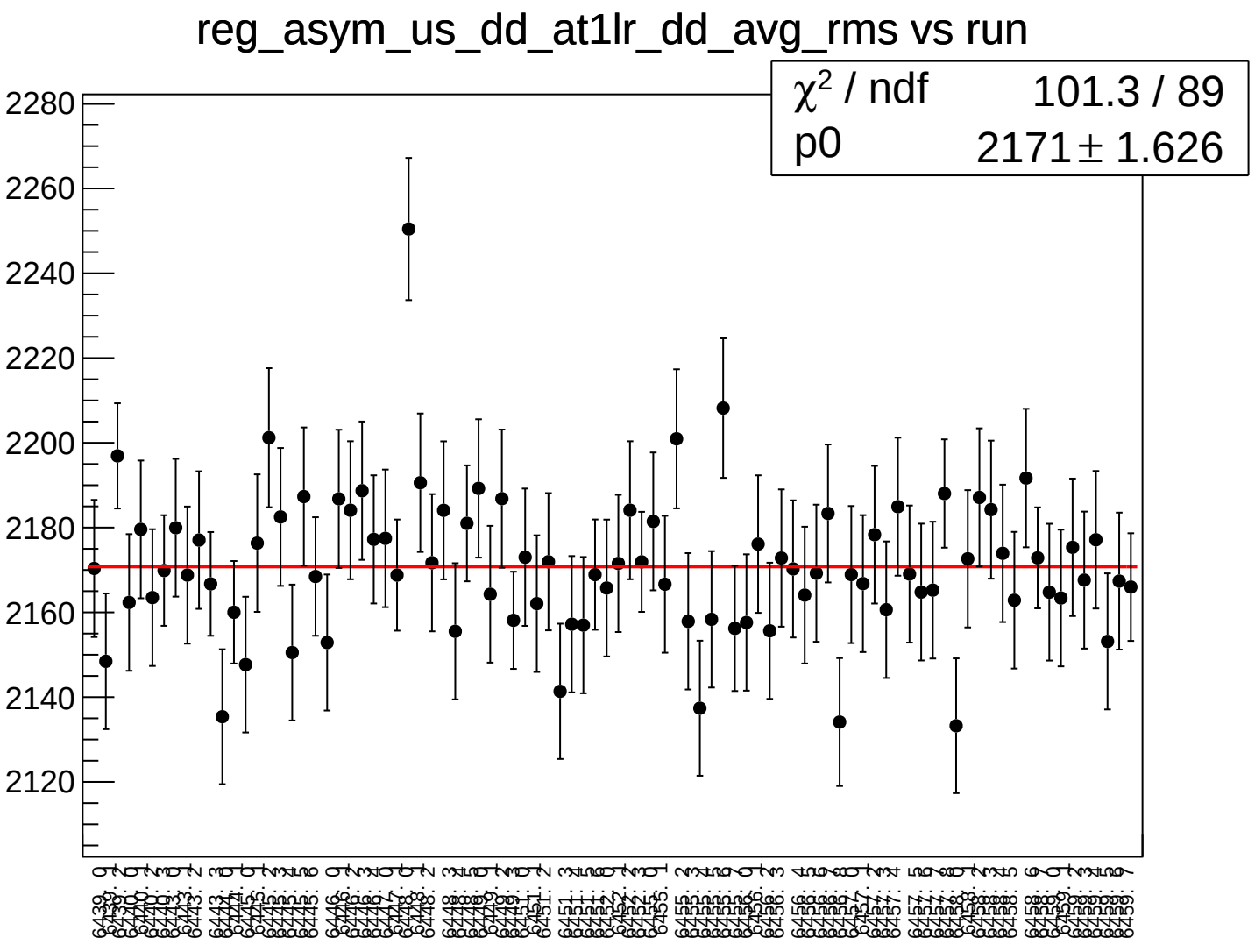

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.625e+04 / 89
p0 168.1 ± 0.1272
400
350
300
250
200
150

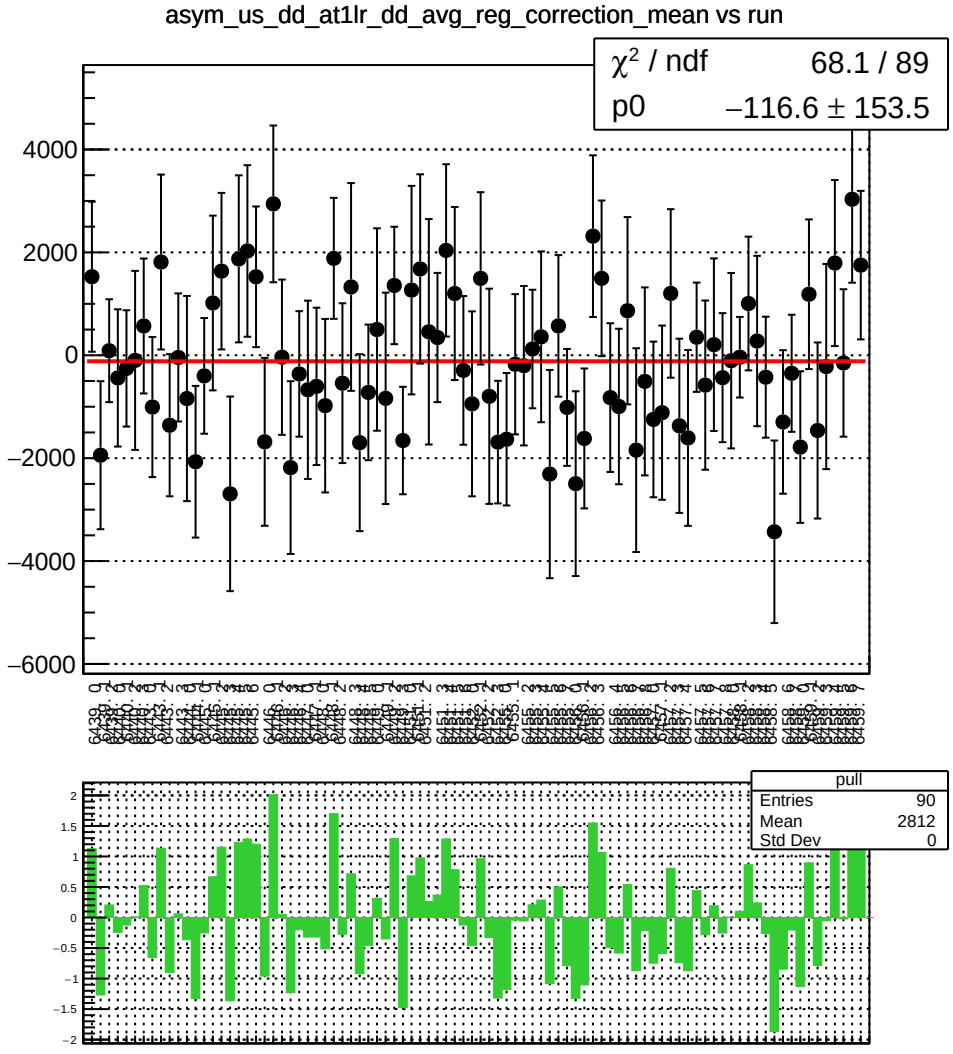

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.82 / 89
p0 5.279e−14 ± 5.193e−14
pull
Entries 90
Mean −107.9
Std Dev 0
pull1D
Entries 90
Mean −0.008885
Std Dev 0.9822

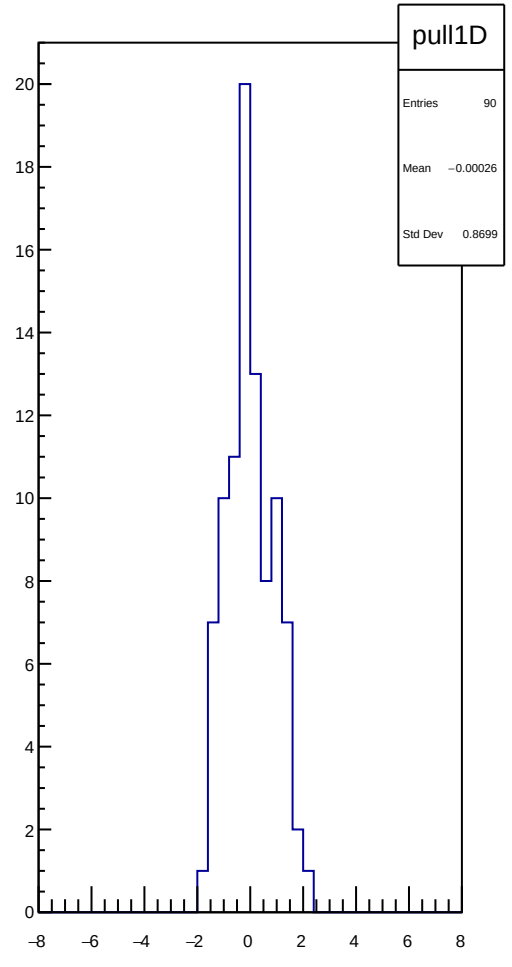

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.719e+05 / 89
p0 4.04e−11 ± 3.672e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

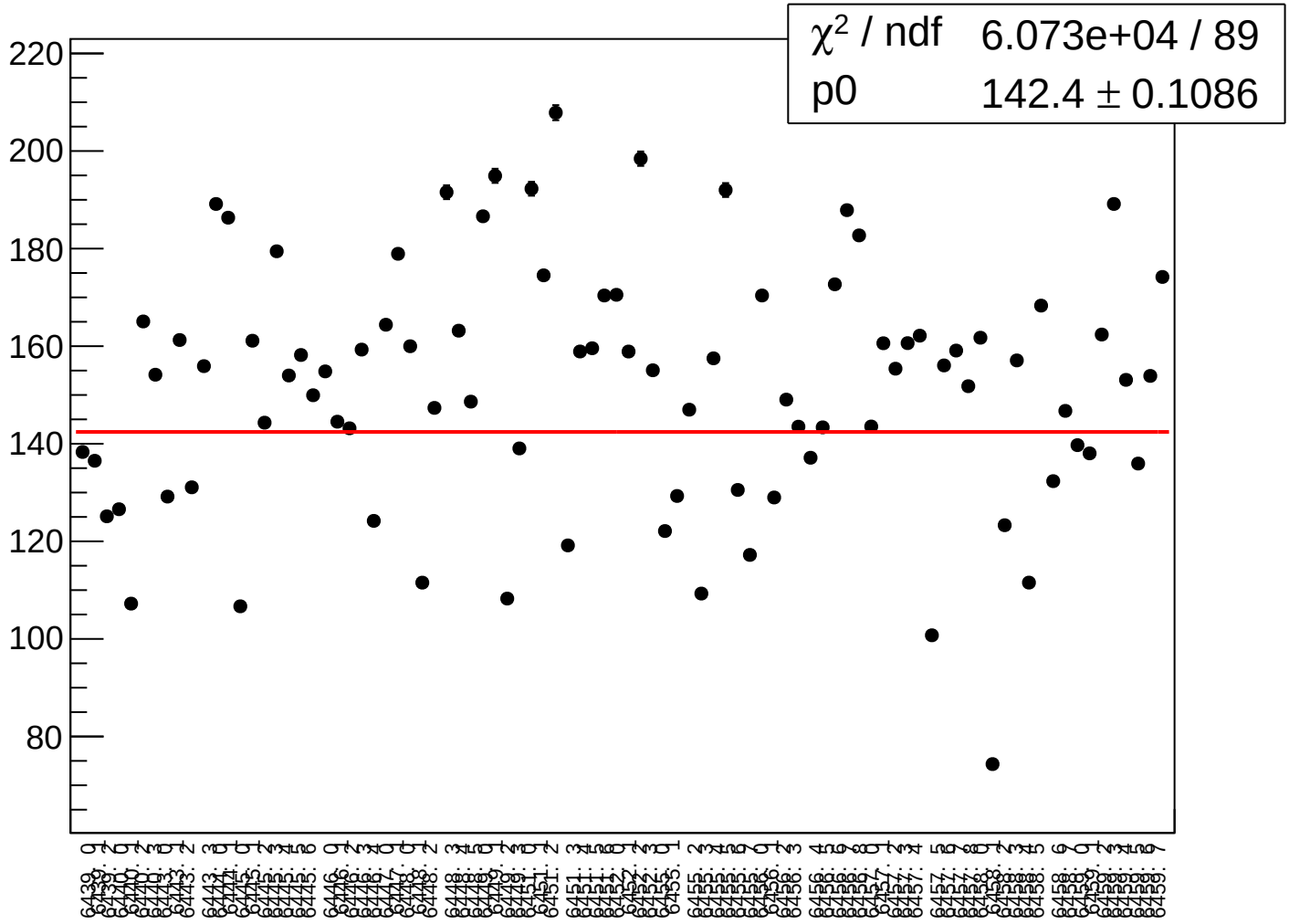

reg_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 97.82 / 89
p0 118.4 ± 2300
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 90
Mean 341.5
Std Dev 0
2
1
0
−1
−2

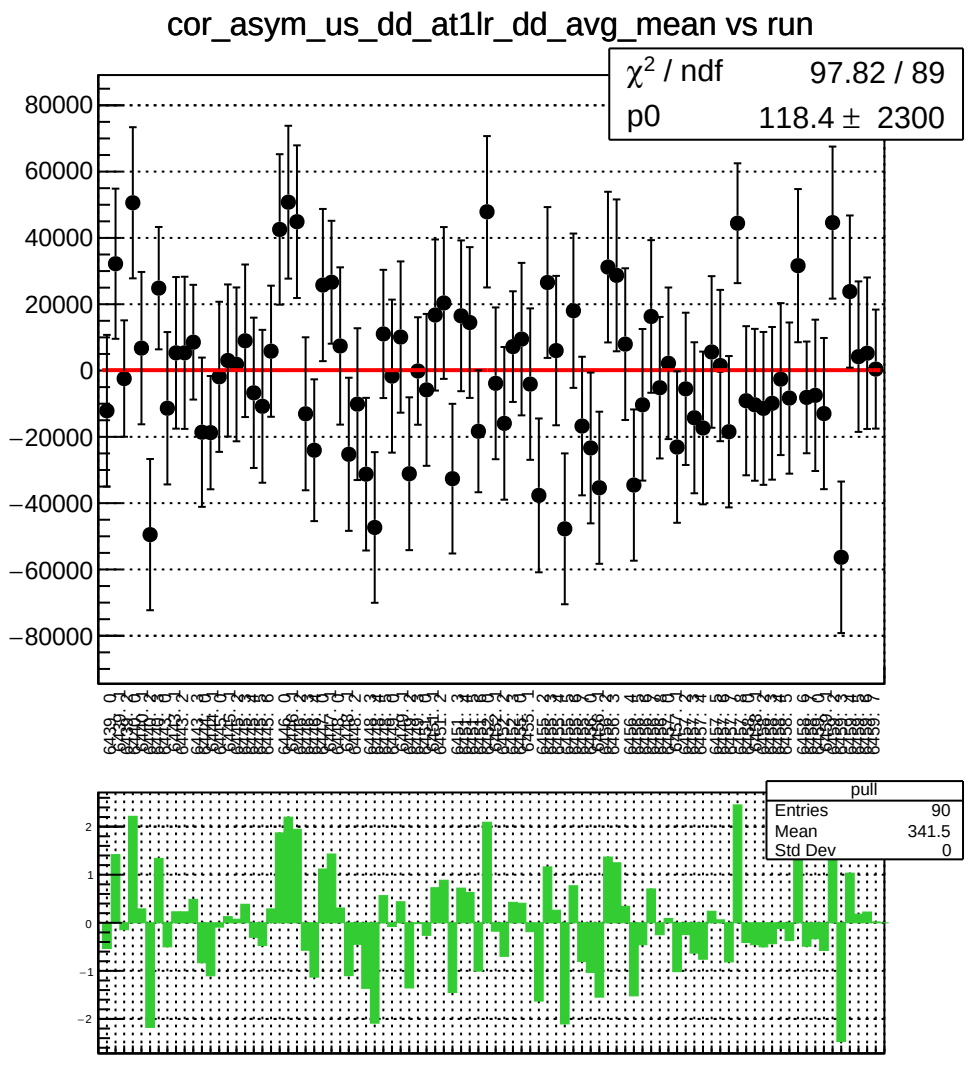

pull1D
Entries 90
Mean −0.008103
Std Dev 1.043
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

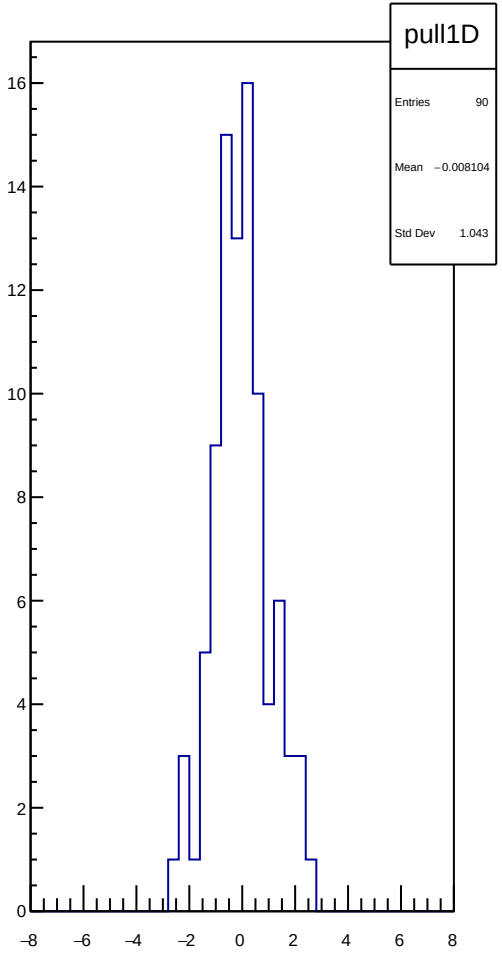

reg_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 101.3 / 89
p0 2171 ± 1.626
2280
2260
2240
2220
2200
2180
2160
2140
2120

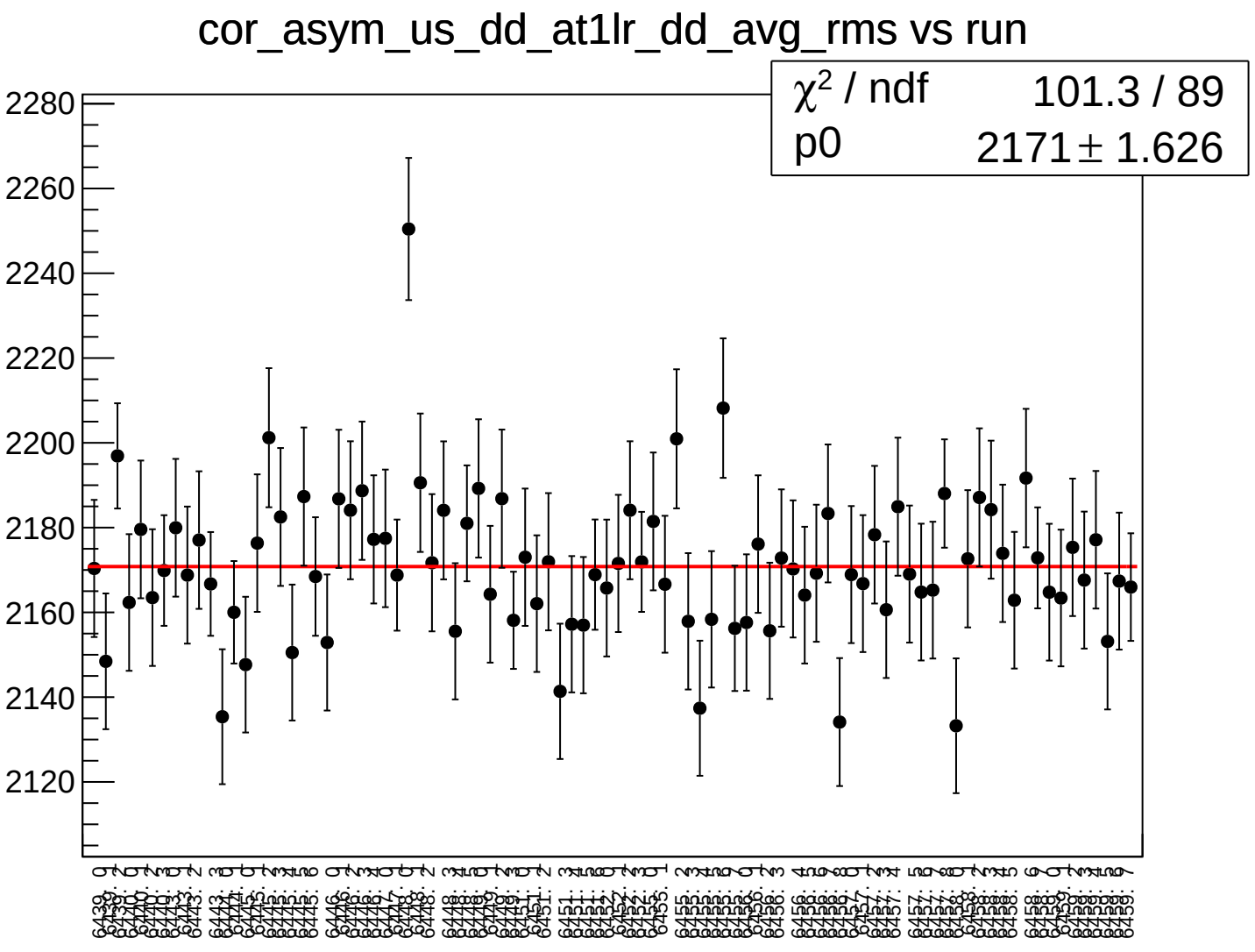

asym_us_dd_at1lr_dd_avg_reg_correction_mean vs run
χ² / ndf 68.1 / 89
p0 −116.6 ± 153.5
4000
2000
0
−2000
−4000
−6000
pull
Entries 90
Mean 2812
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

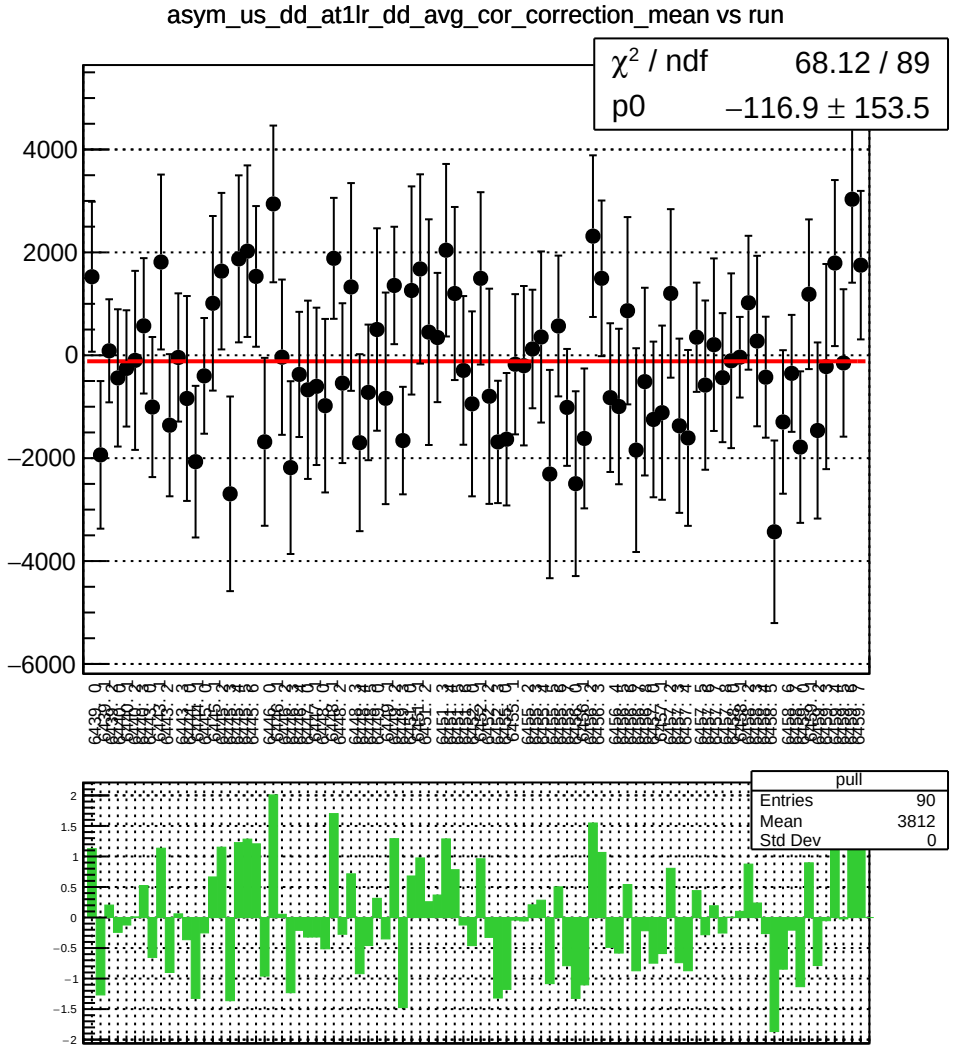

pull1D
Entries 90
Mean −0.00026
Std Dev 0.8699
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

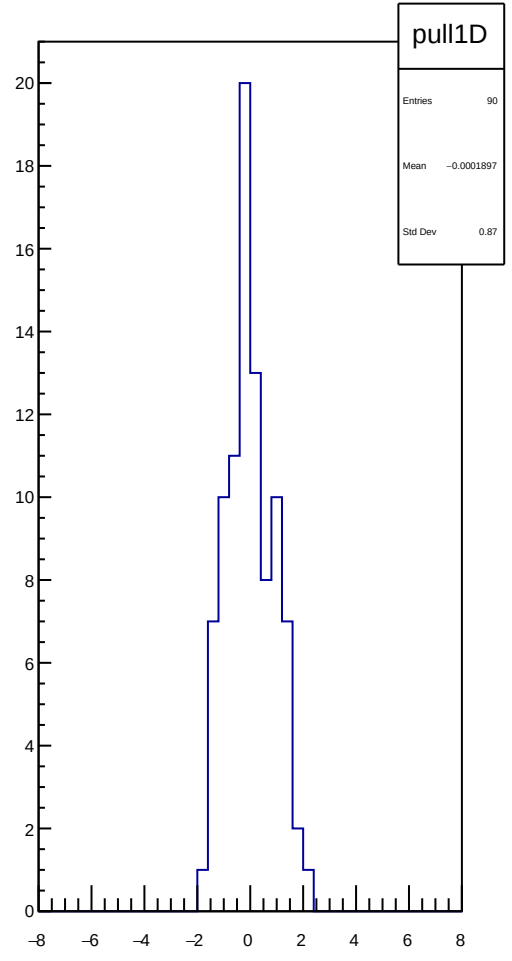

asym_us_dd_at1lr_dd_avg_reg_correction_rms vs run
χ^2 / ndf 6.073e+04 / 89
p0 142.4 ± 0.1086
220
200
180
160
140
120
100
80

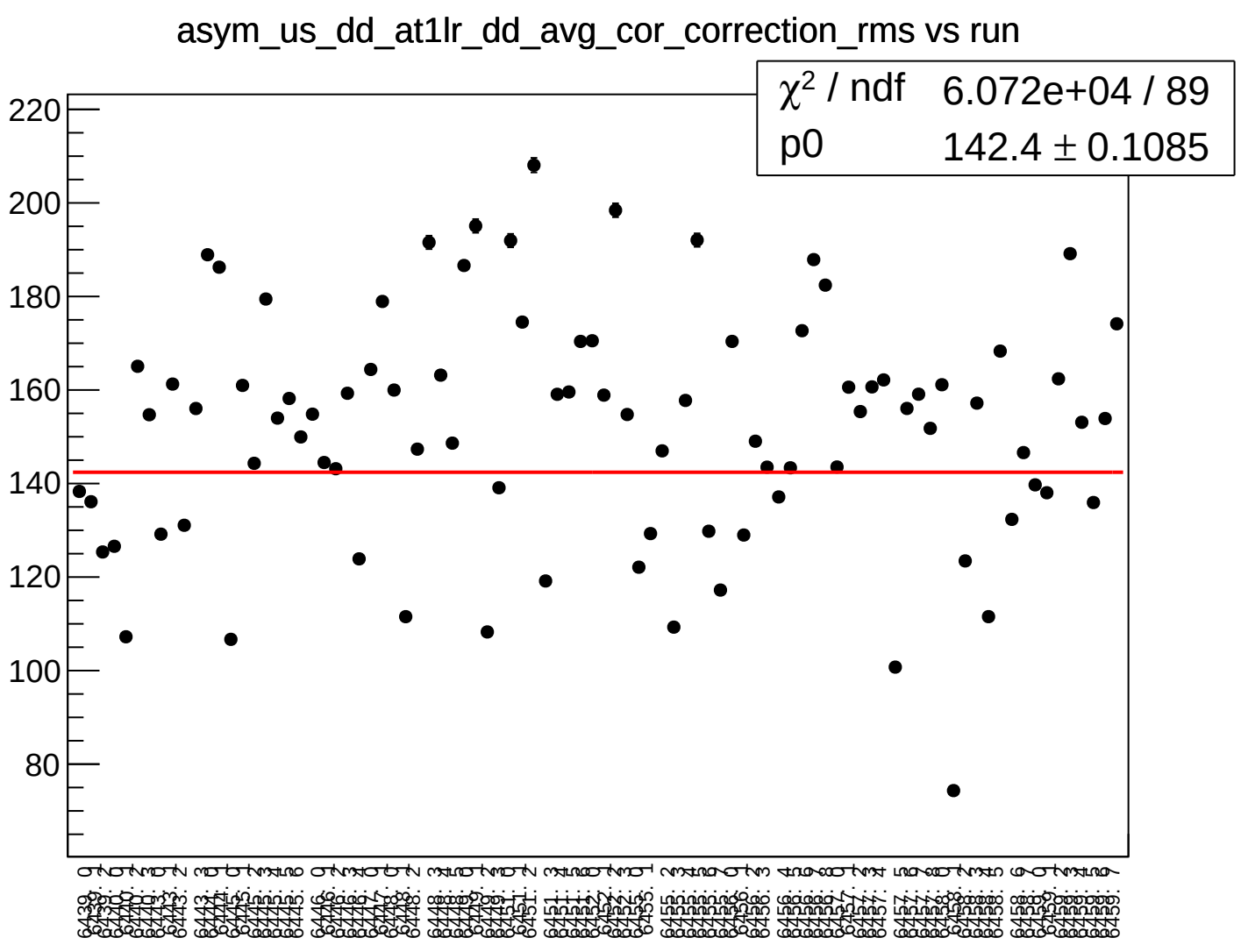

cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 97.82 / 89
p0 118.4 ± 2300
pull
Entries 90
Mean 341.5
Std Dev 0

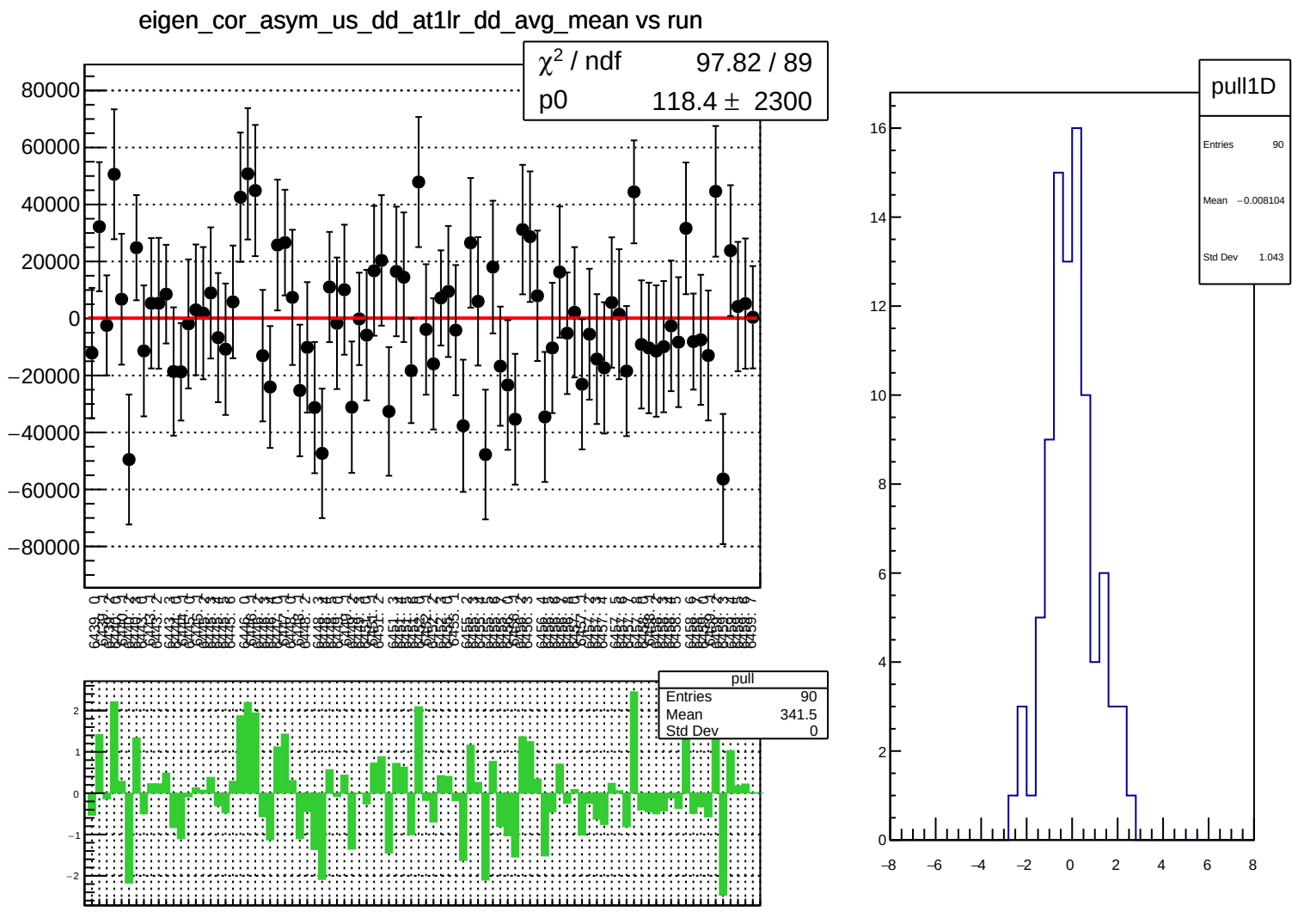

pull1D
Entries 90
Mean −0.008104
Std Dev 1.043

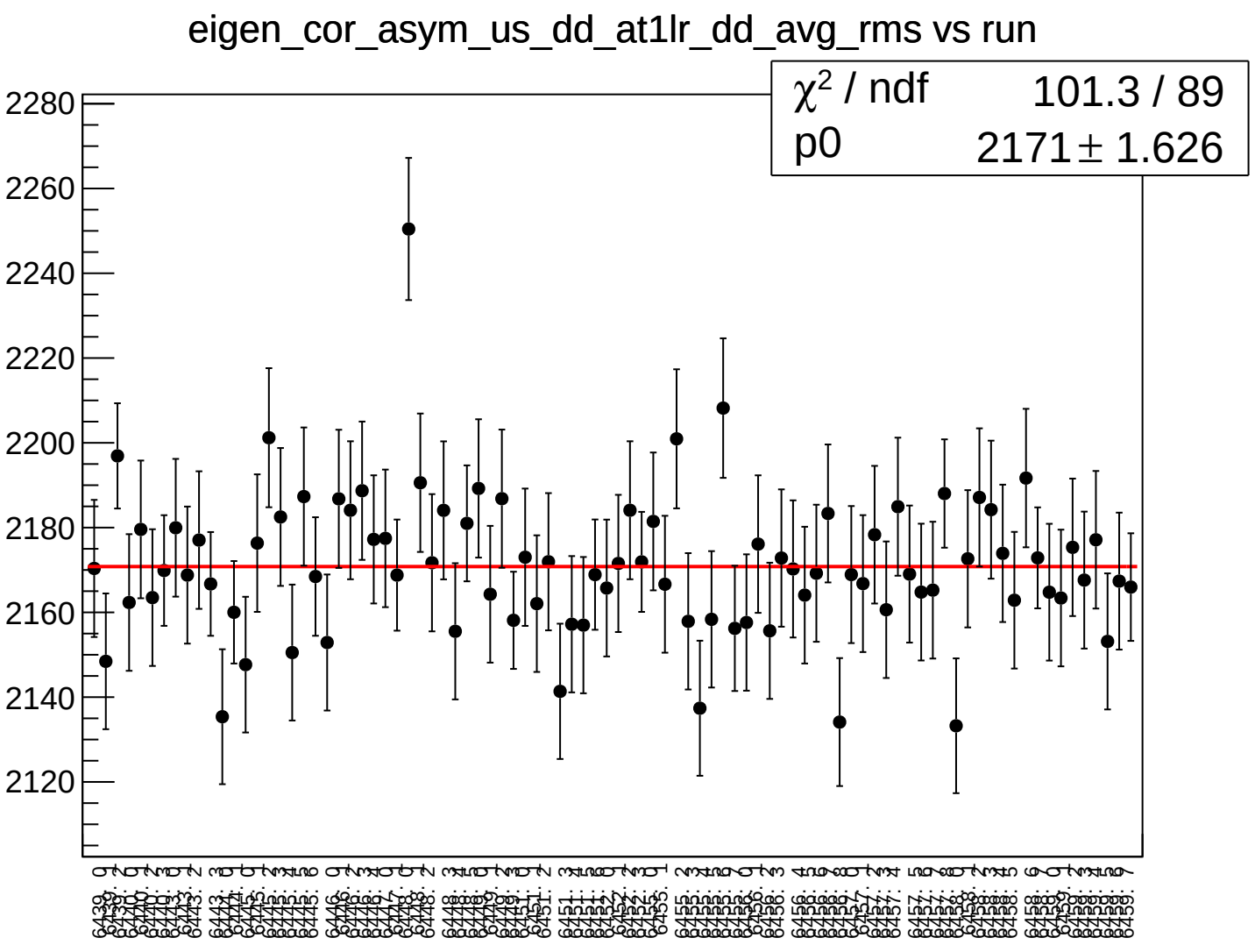

cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 101.3 / 89
p0 2171 ± 1.626
2280
2260
2240
2220
2200
2180
2160
2140
2120

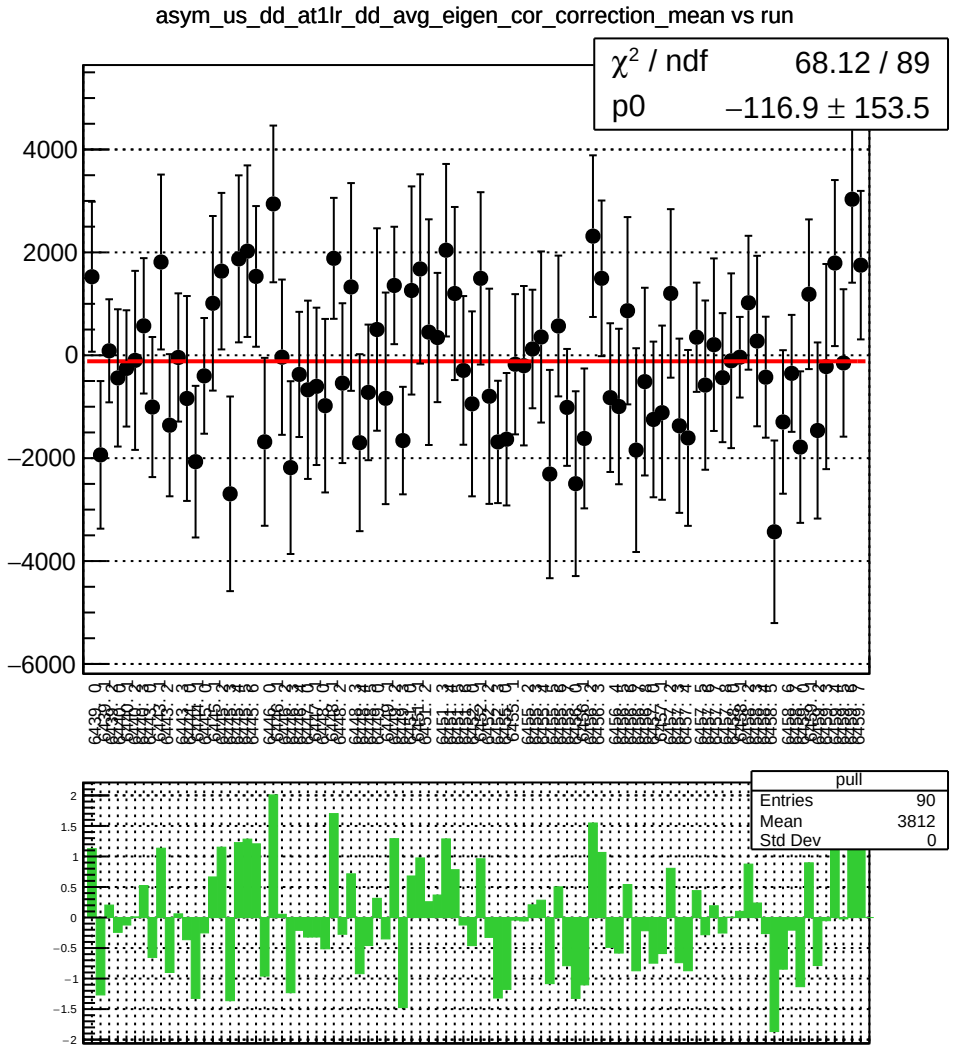

asym_us_dd_at1lr_dd_avg_cor_correction_mean vs run
χ² / ndf 68.12 / 89
p0 −116.9 ± 153.5
4000
2000
0
−2000
−4000
−6000
pull
Entries 90
Mean 3812
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

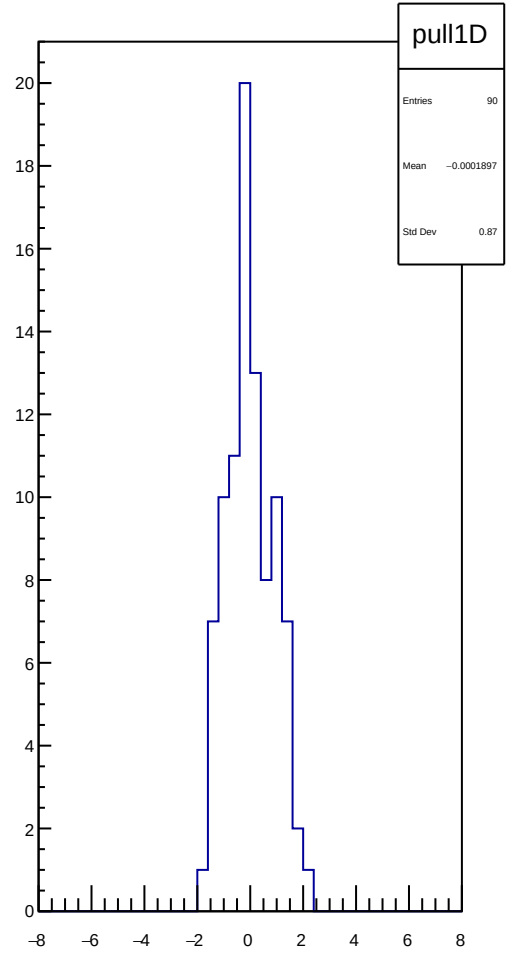

pull1D
Entries 90
Mean −0.0001897
Std Dev 0.87
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

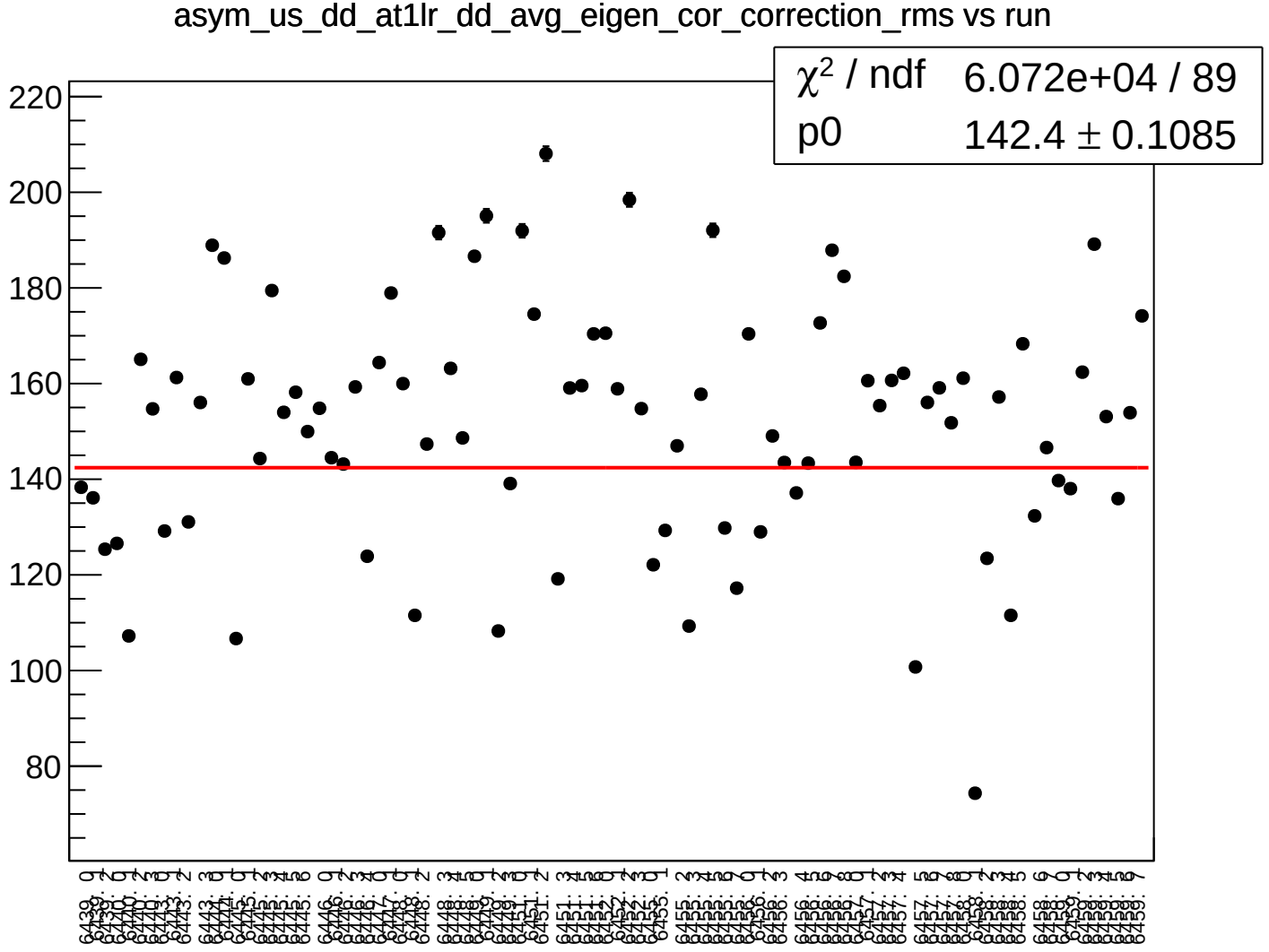

asym_us_dd_at1lr_dd_avg_cor_correction_rms vs run
χ² / ndf 6.072e+04 / 89
p0 142.4 ± 0.1085
220
200
180
160
140
120
100
80

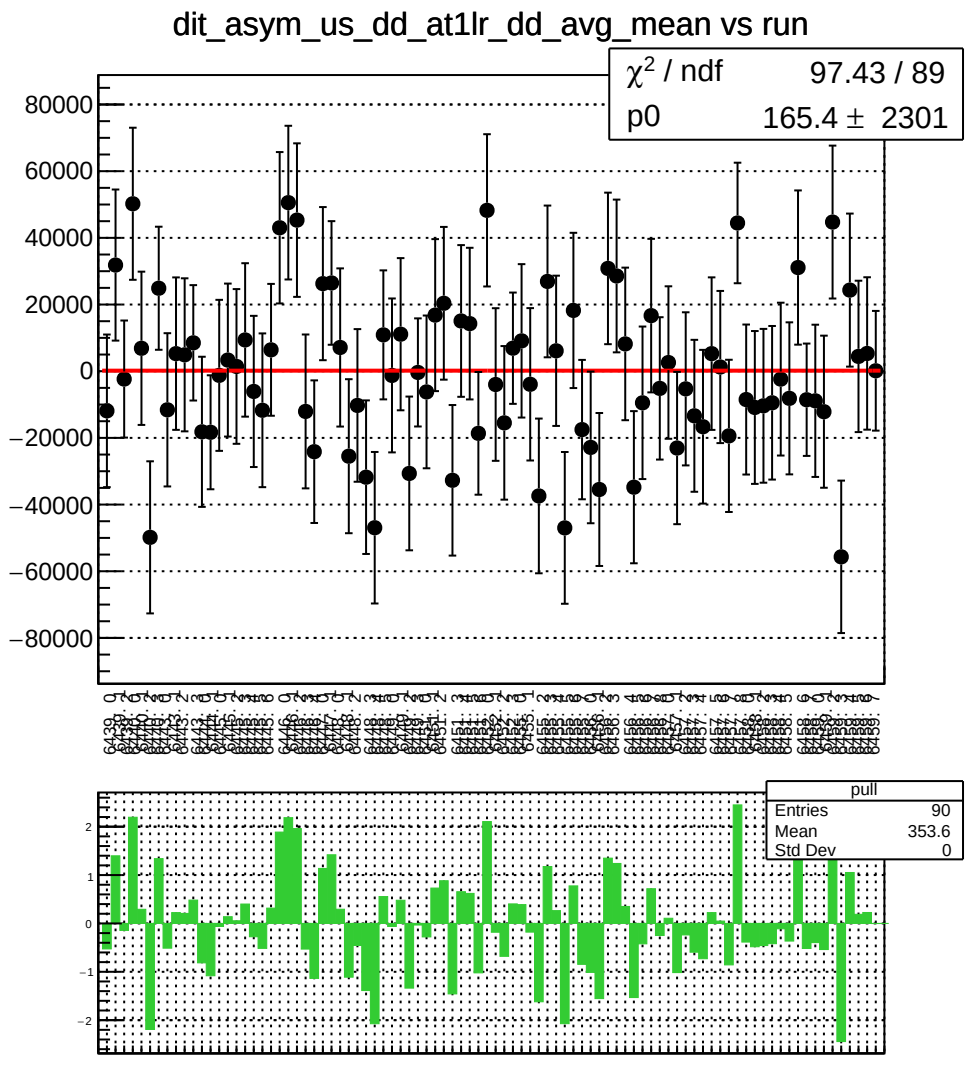

eigen_cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 97.82 / 89
p0 118.4 ± 2300
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 90
Mean 341.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.008104
Std Dev 1.043
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

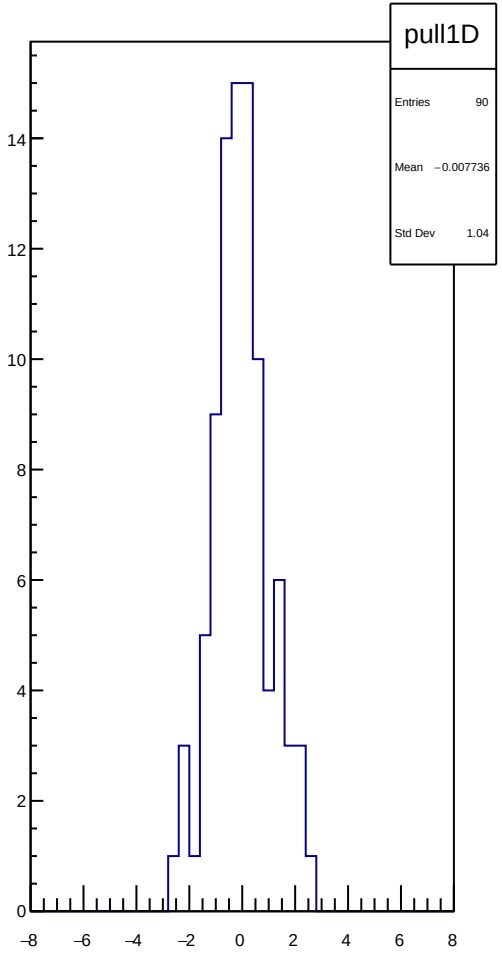

eigen_cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 101.3 / 89
p0 2171 ± 1.626
2280
2260
2240
2220
2200
2180
2160
2140
2120

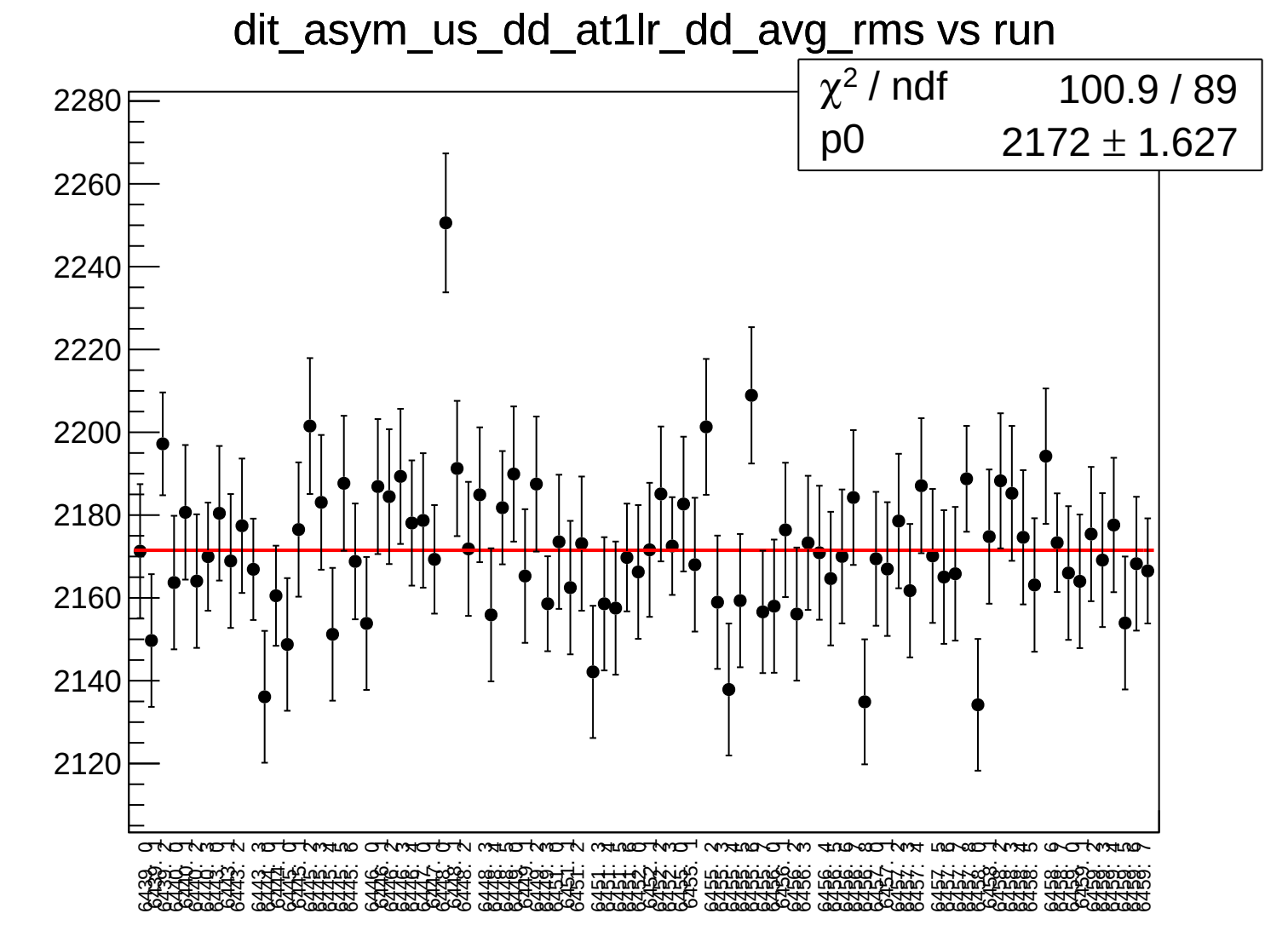

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 68.12 / 89
p0 −116.9 ± 153.5
pull
Entries 90
Mean 3812
Std Dev 0

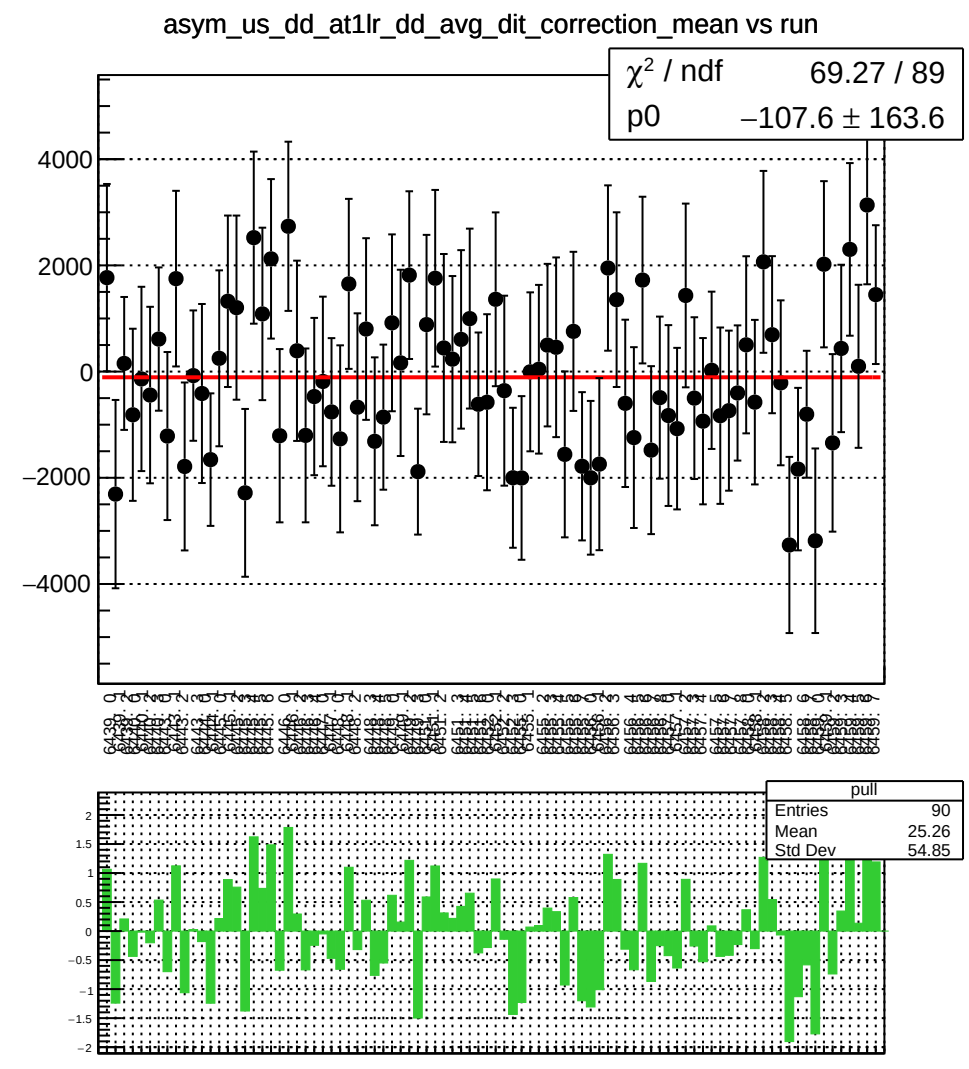

pull1D
Entries 90
Mean −0.0001897
Std Dev 0.87

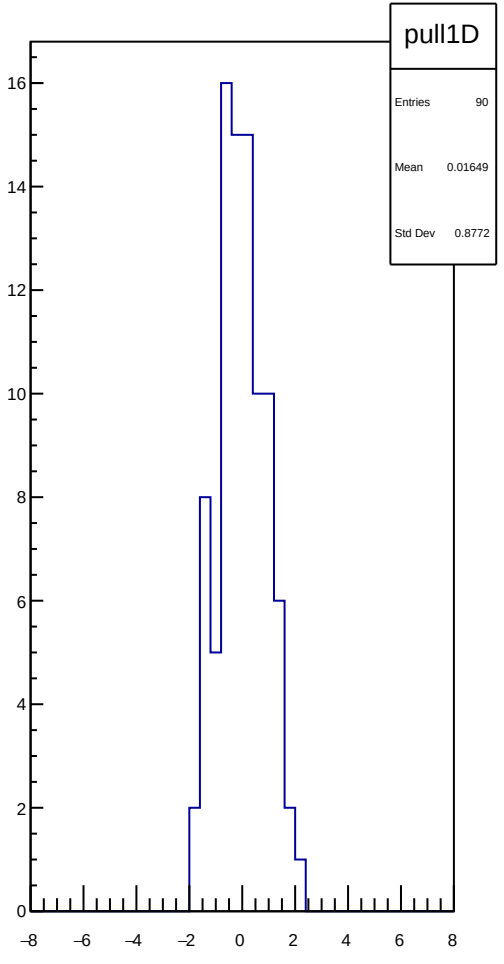

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 6.072e+04 / 89
p0 142.4 ± 0.1085
220
200
180
160
140
120
100
80

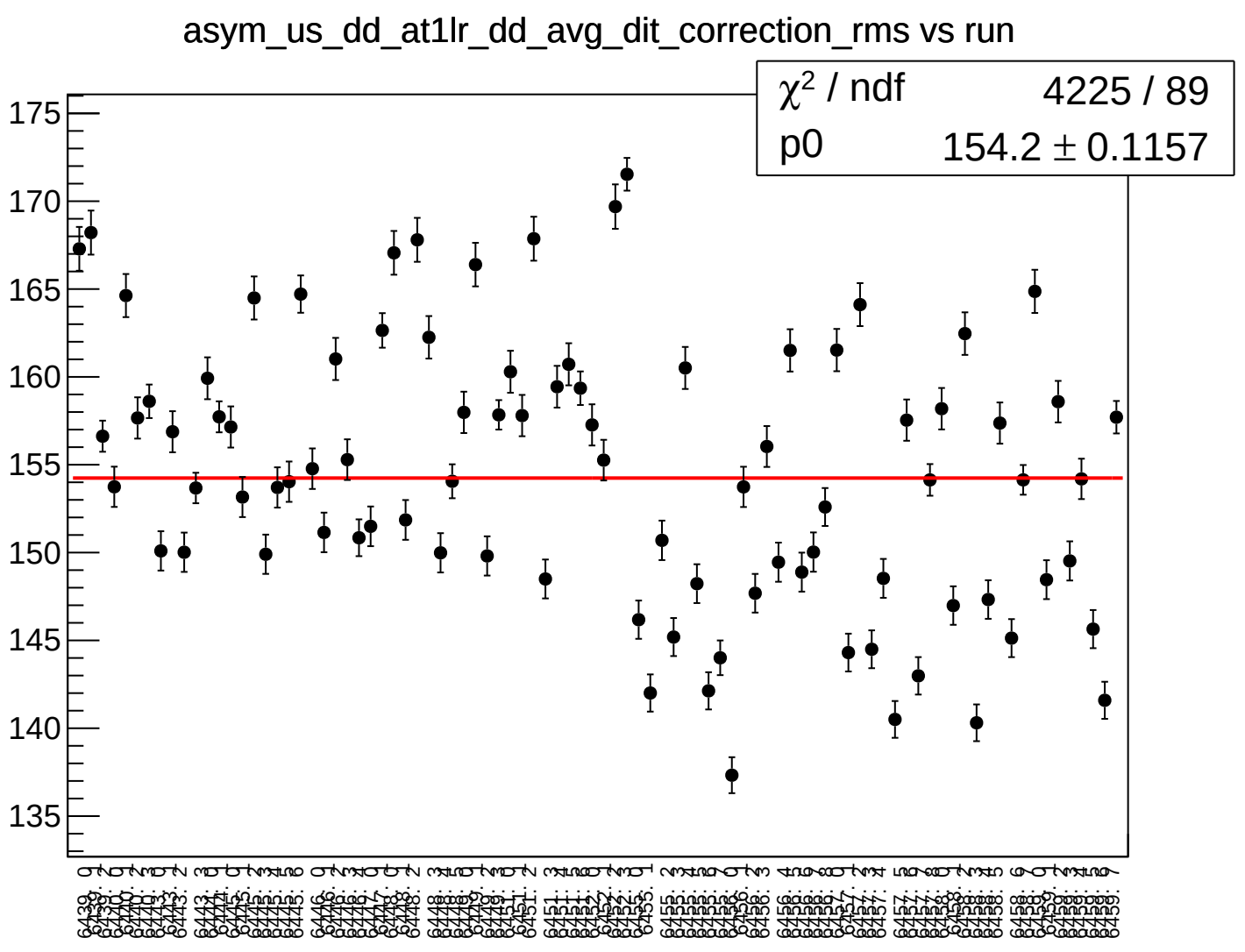

dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 97.43 / 89
p0 165.4 ± 2301
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 90
Mean 353.6
Std Dev 0
2
1
0
−1
−2

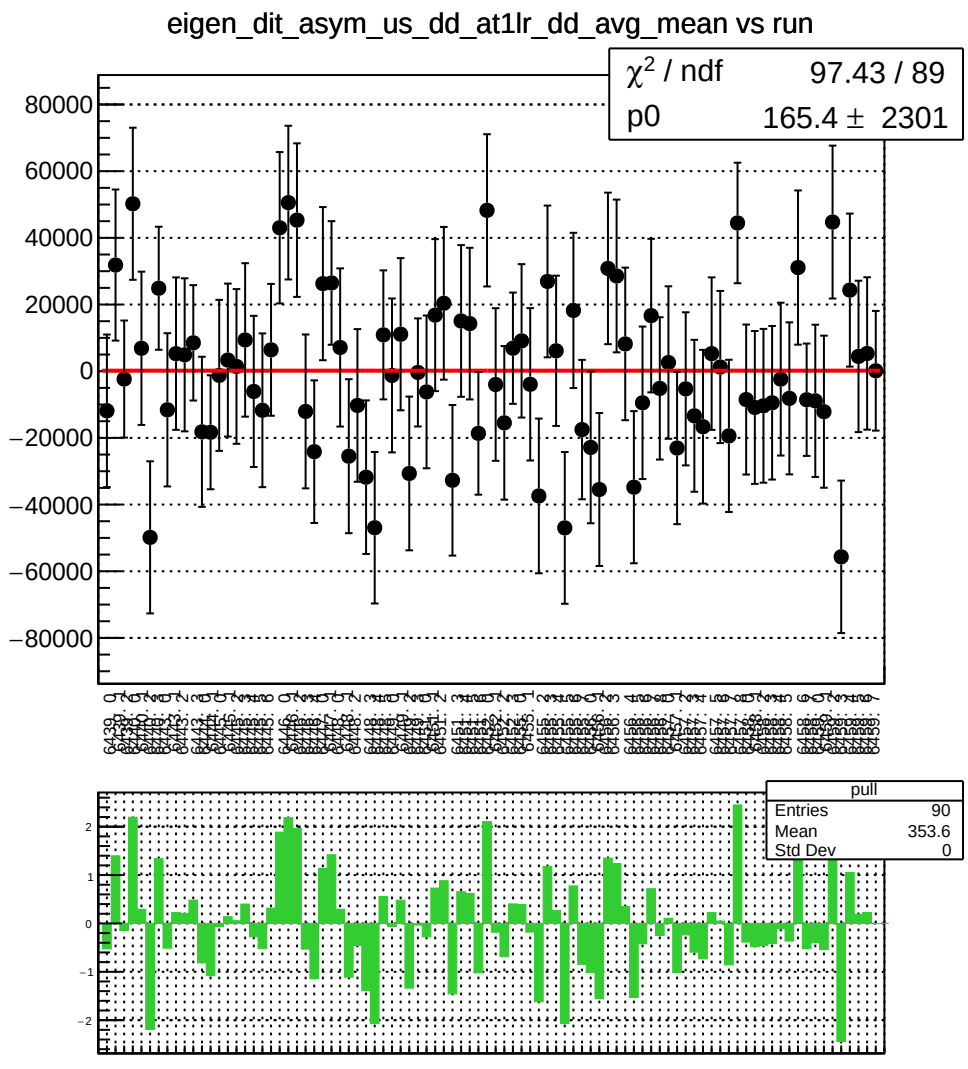

pull1D
Entries 90
Mean −0.007736
Std Dev 1.04
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

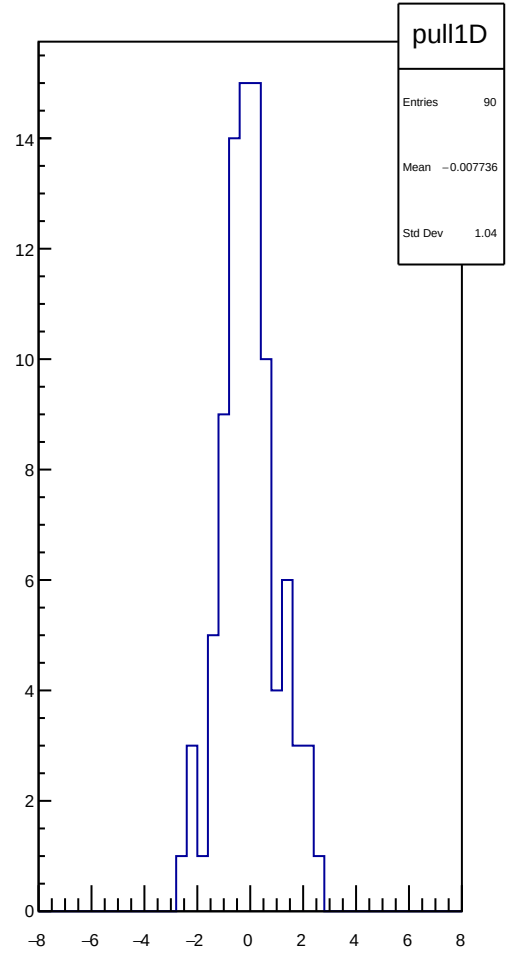

dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 100.9 / 89
p0 2172 ± 1.627
2280
2260
2240
2220
2200
2180
2160
2140
2120

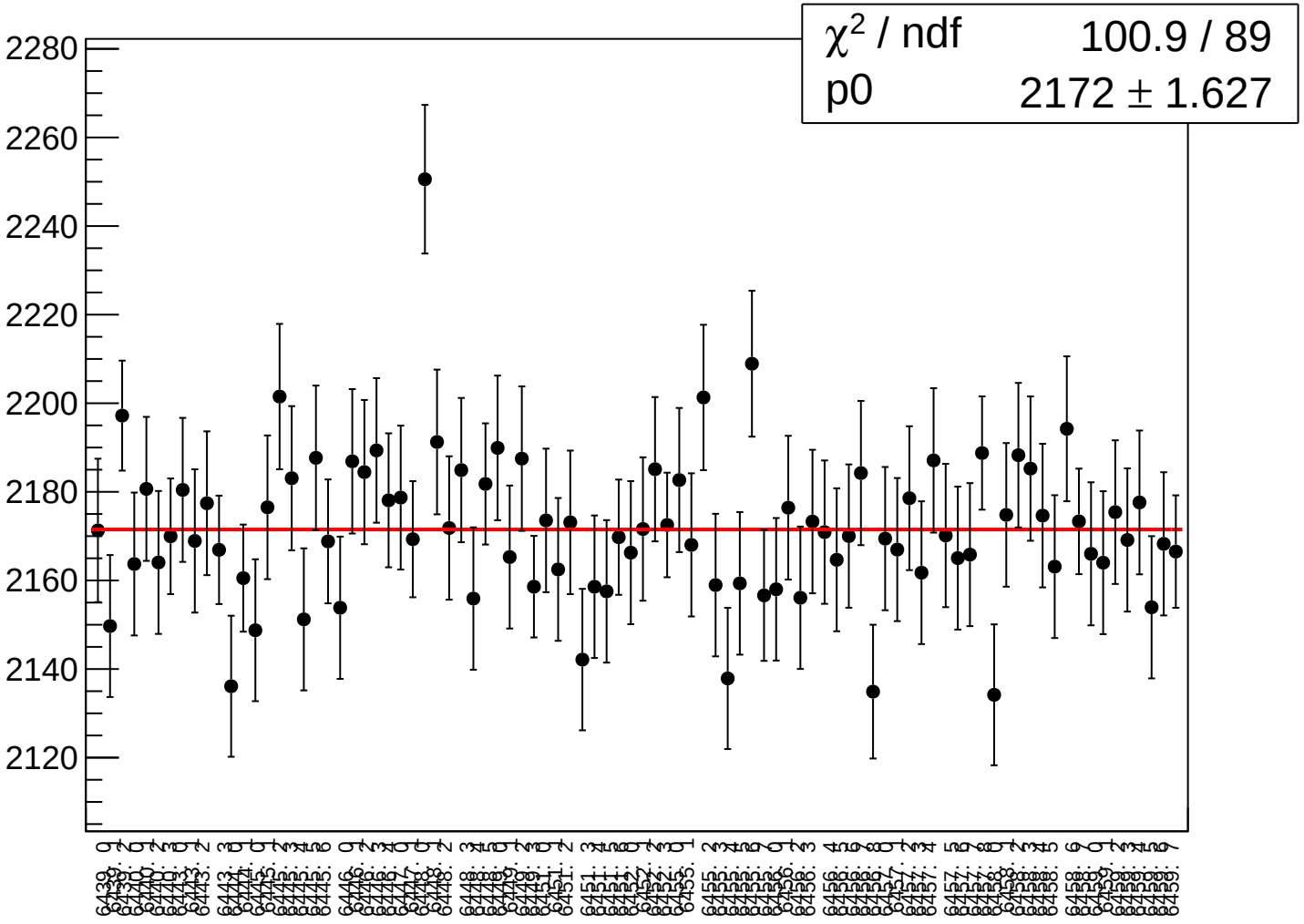

asym_us_dd_at1lr_dd_avg_dit_correction_mean vs run
χ² / ndf 69.27 / 89
p0 −107.6 ± 163.6
4000
2000
0
−2000
−4000
pull
Entries 90
Mean 25.26
Std Dev 54.85
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

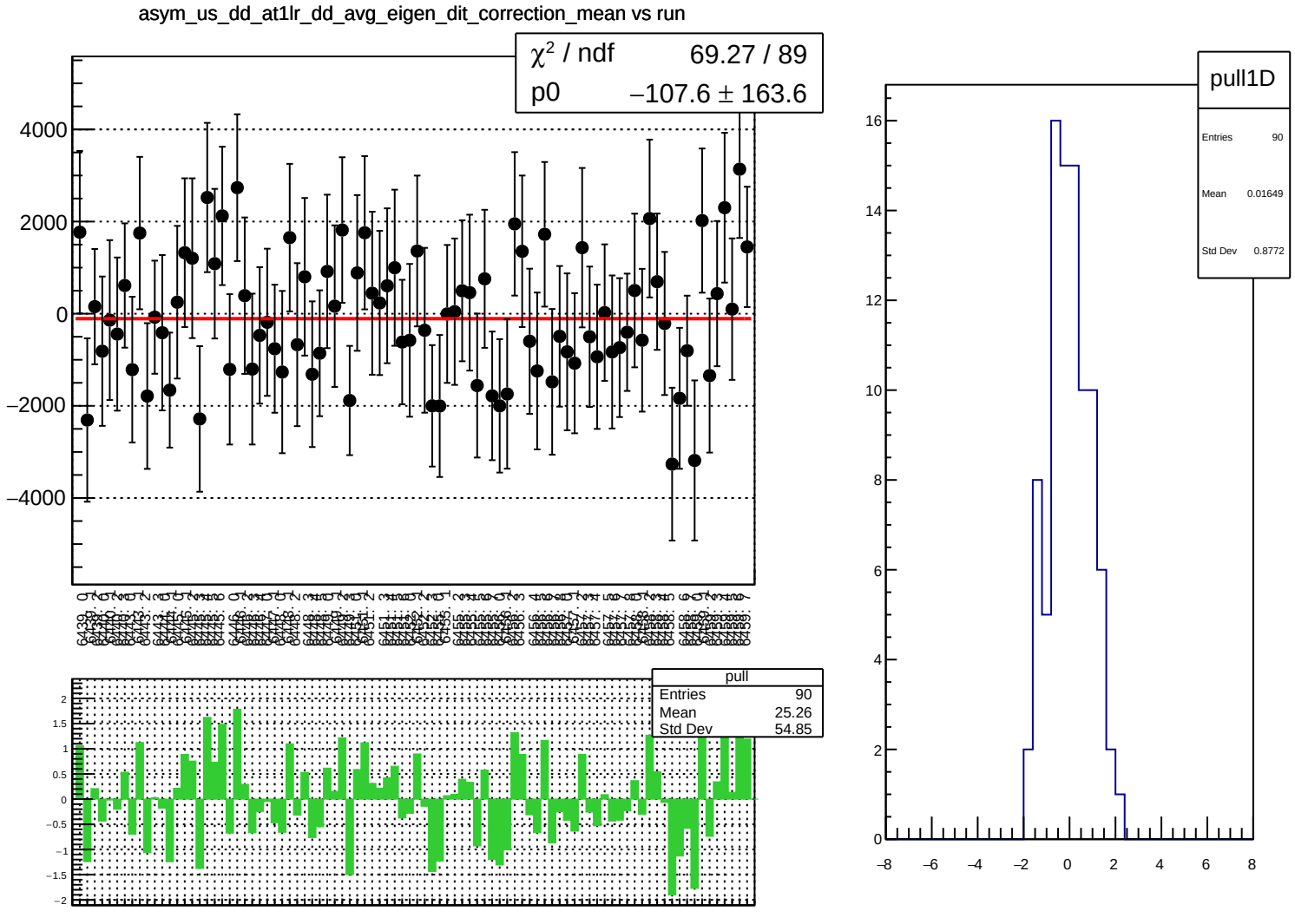

pull1D
Entries 90
Mean 0.01649
Std Dev 0.8772
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

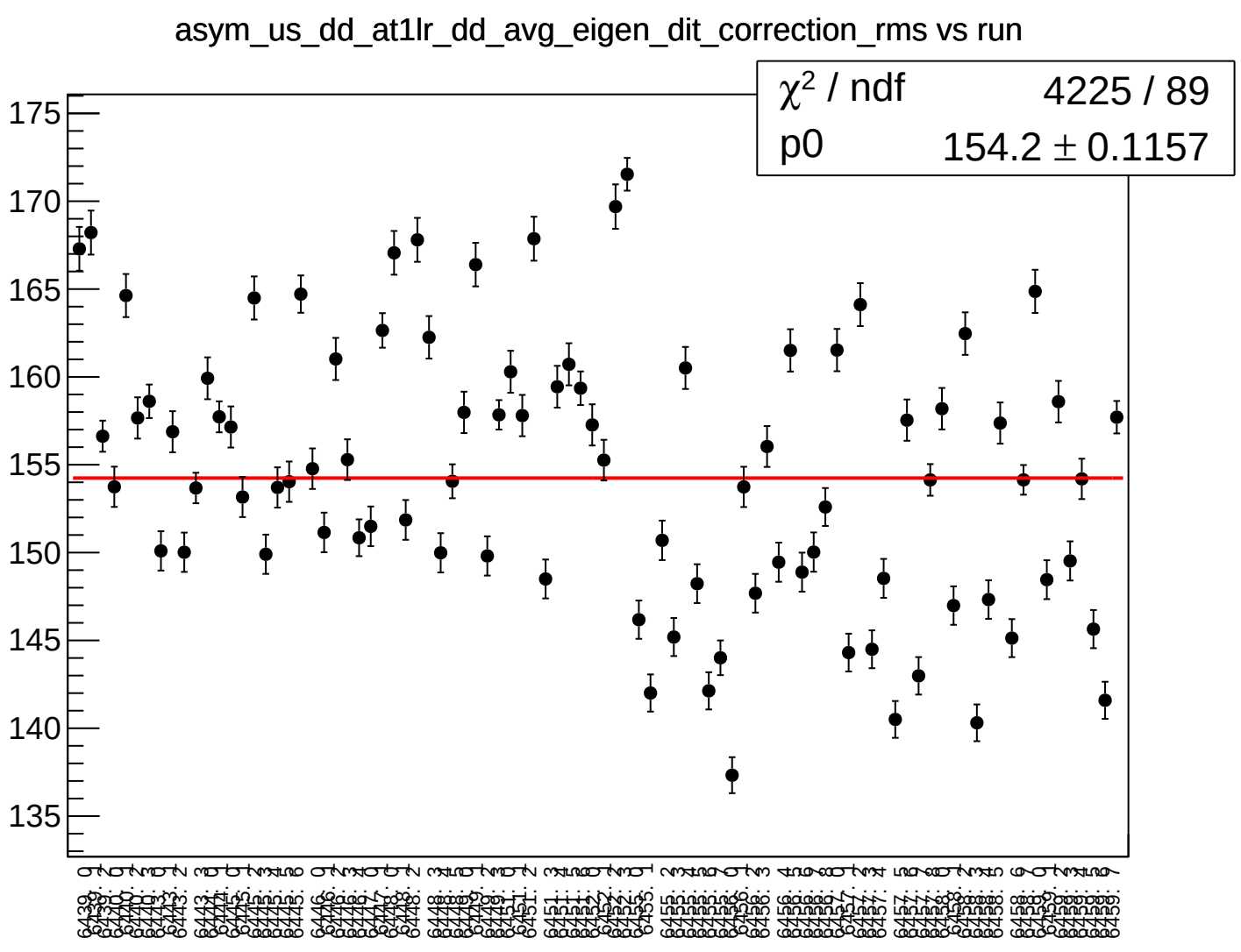

asym_us_dd_at1lr_dd_avg_dit_correction_rms vs run
χ² / ndf 4225 / 89
p0 154.2 ± 0.1157
175
170
165
160
155
150
145
140
135

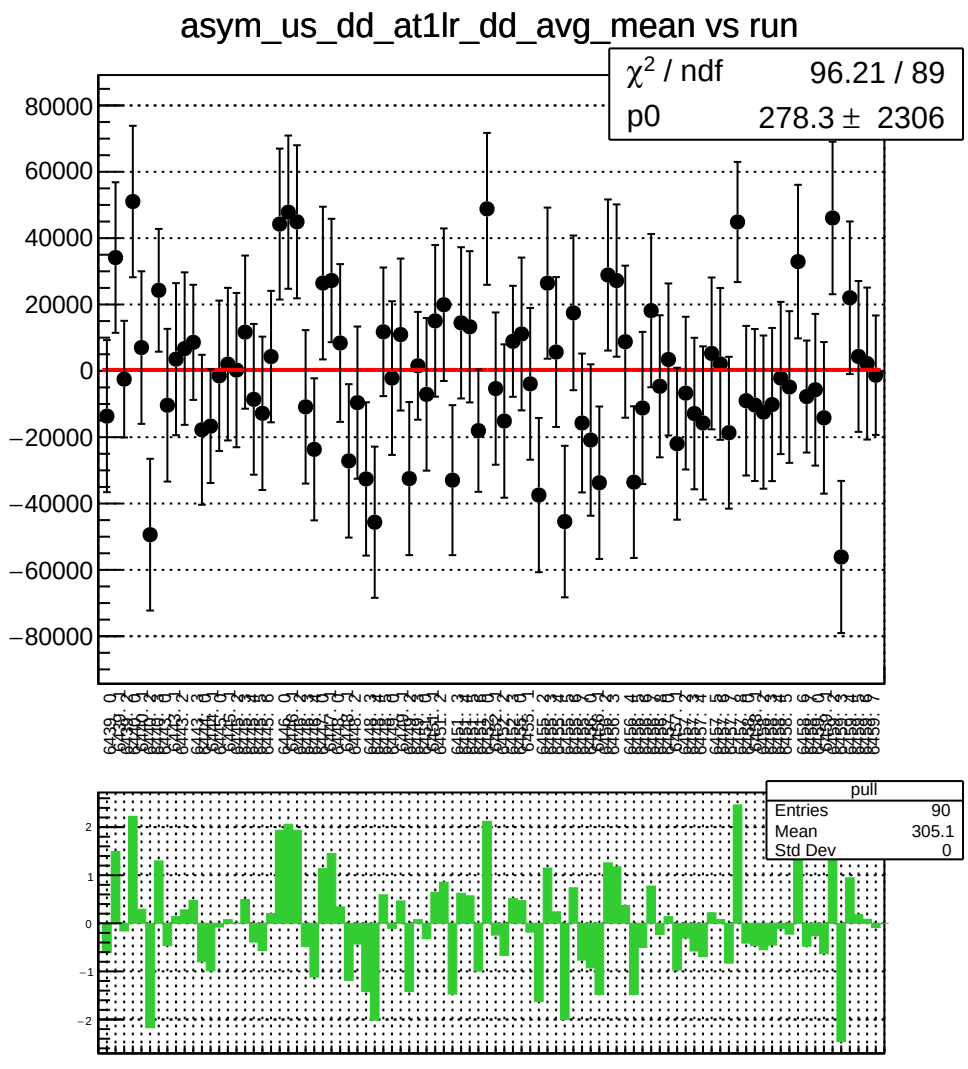

eigen_dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 97.43 / 89
p0 165.4 ± 2301
pull
Entries 90
Mean 353.6
Std Dev 0

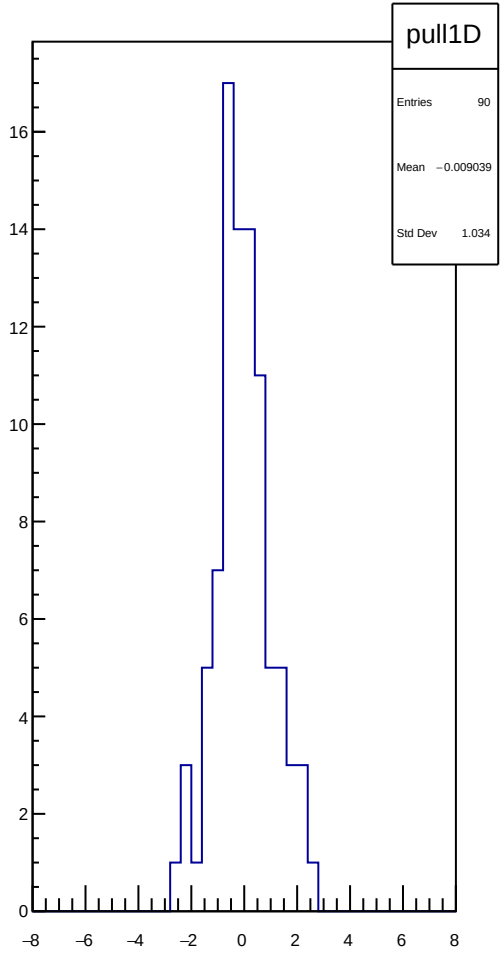

pull1D
Entries 90
Mean −0.007736
Std Dev 1.04

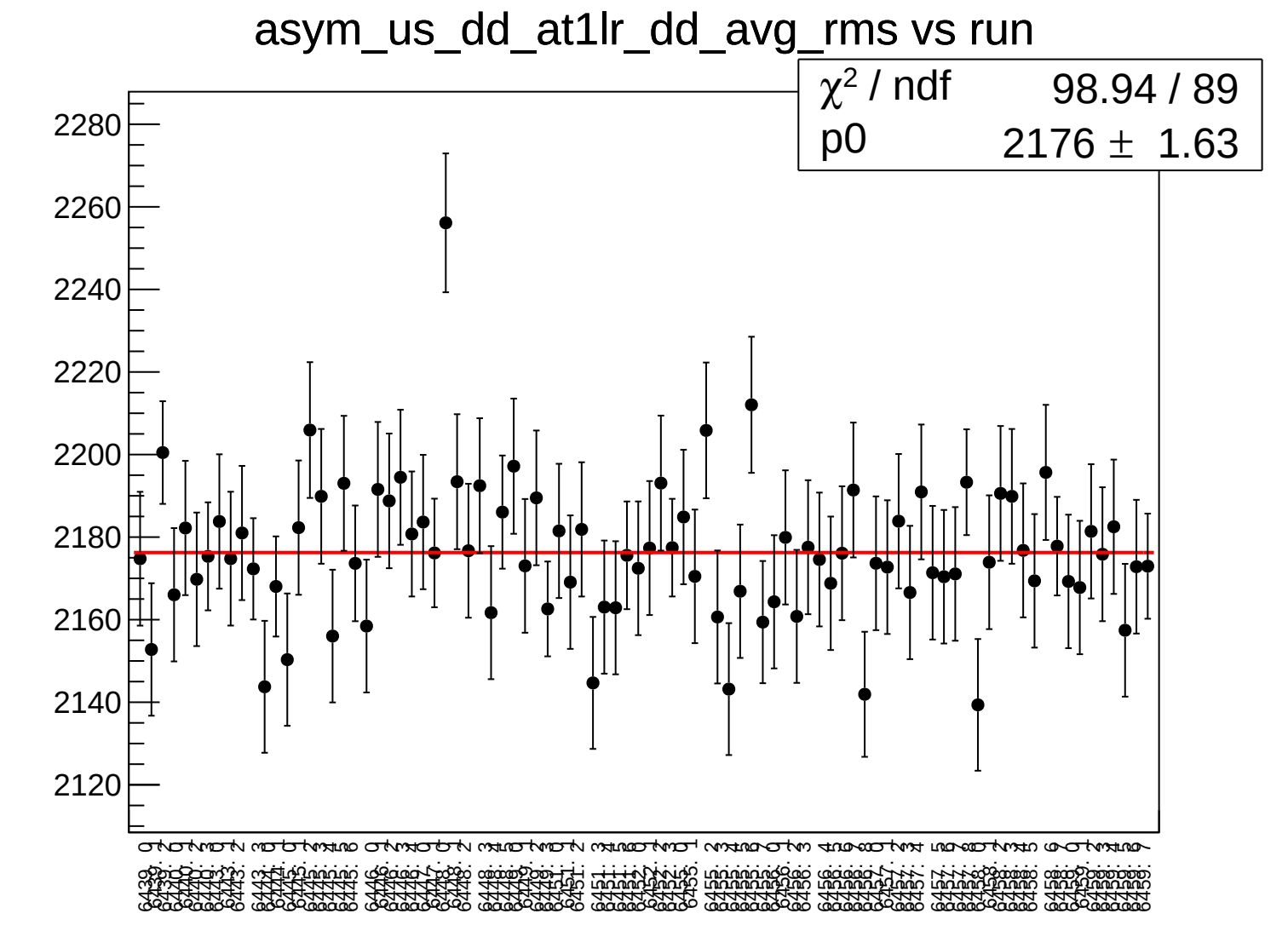

eigen_dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 100.9 / 89
p0 2172 ± 1.627
2280
2260
2240
2220
2200
2180
2160
2140
2120

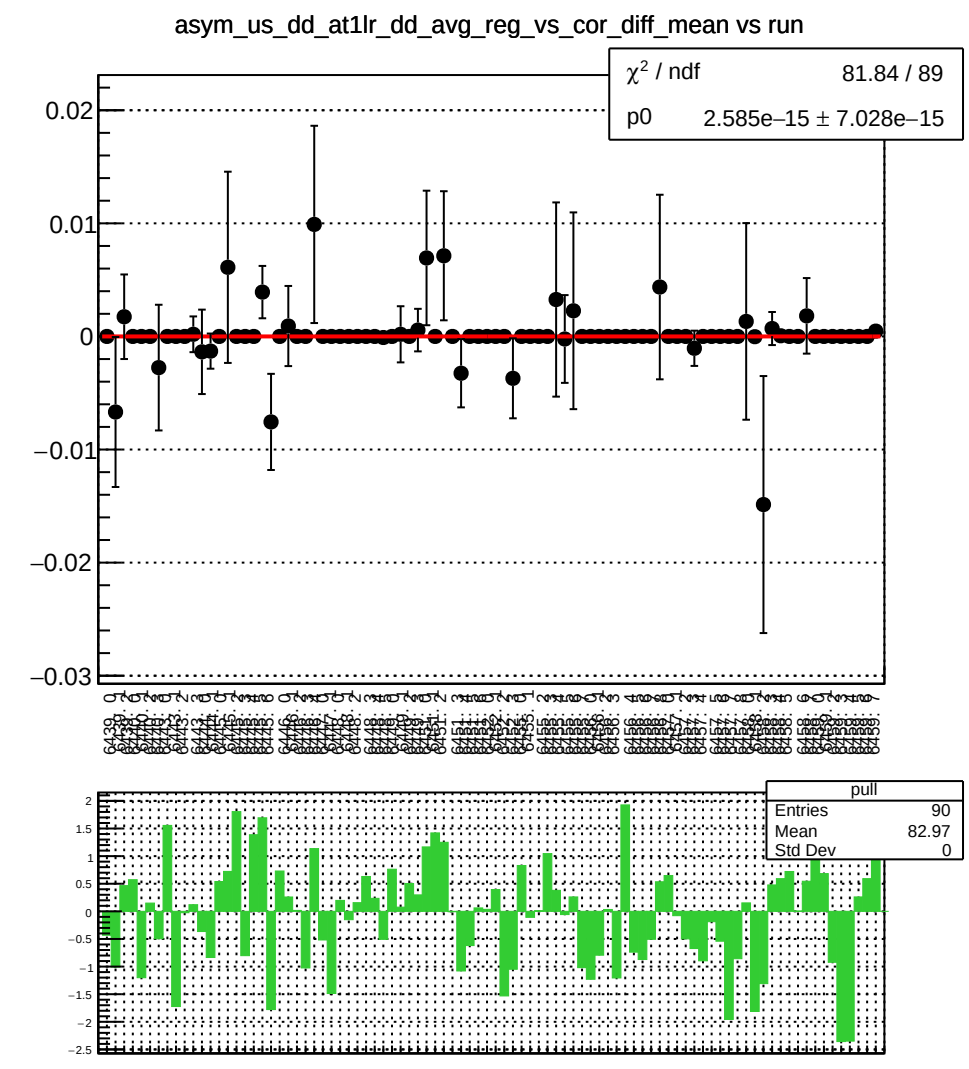

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 69.27 / 89
p0 −107.6 ± 163.6
4000
2000
0
−2000
−4000
pull
Entries 90
Mean 25.26
Std Dev 54.85
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 90
Mean 0.01649
Std Dev 0.8772
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

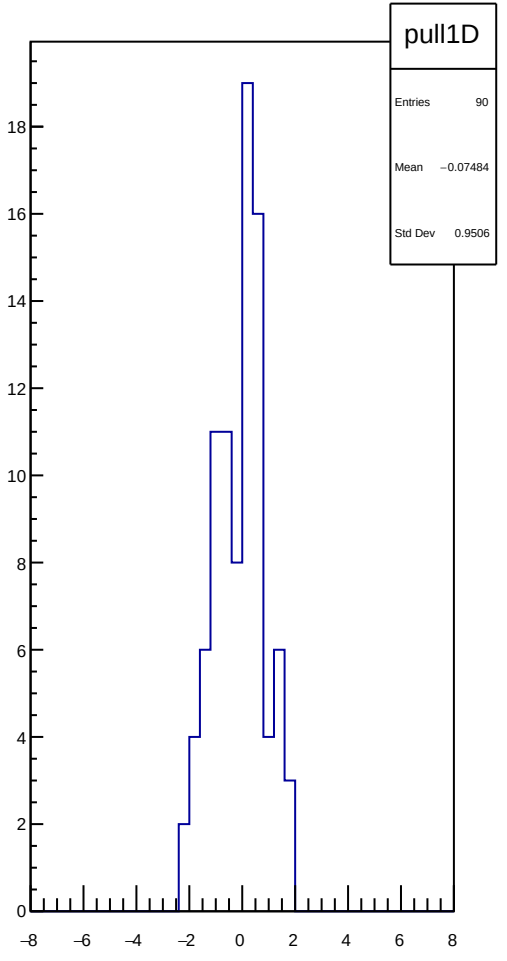

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 4225 / 89
p0 154.2 ± 0.1157
175
170
165
160
155
150
145
140
135

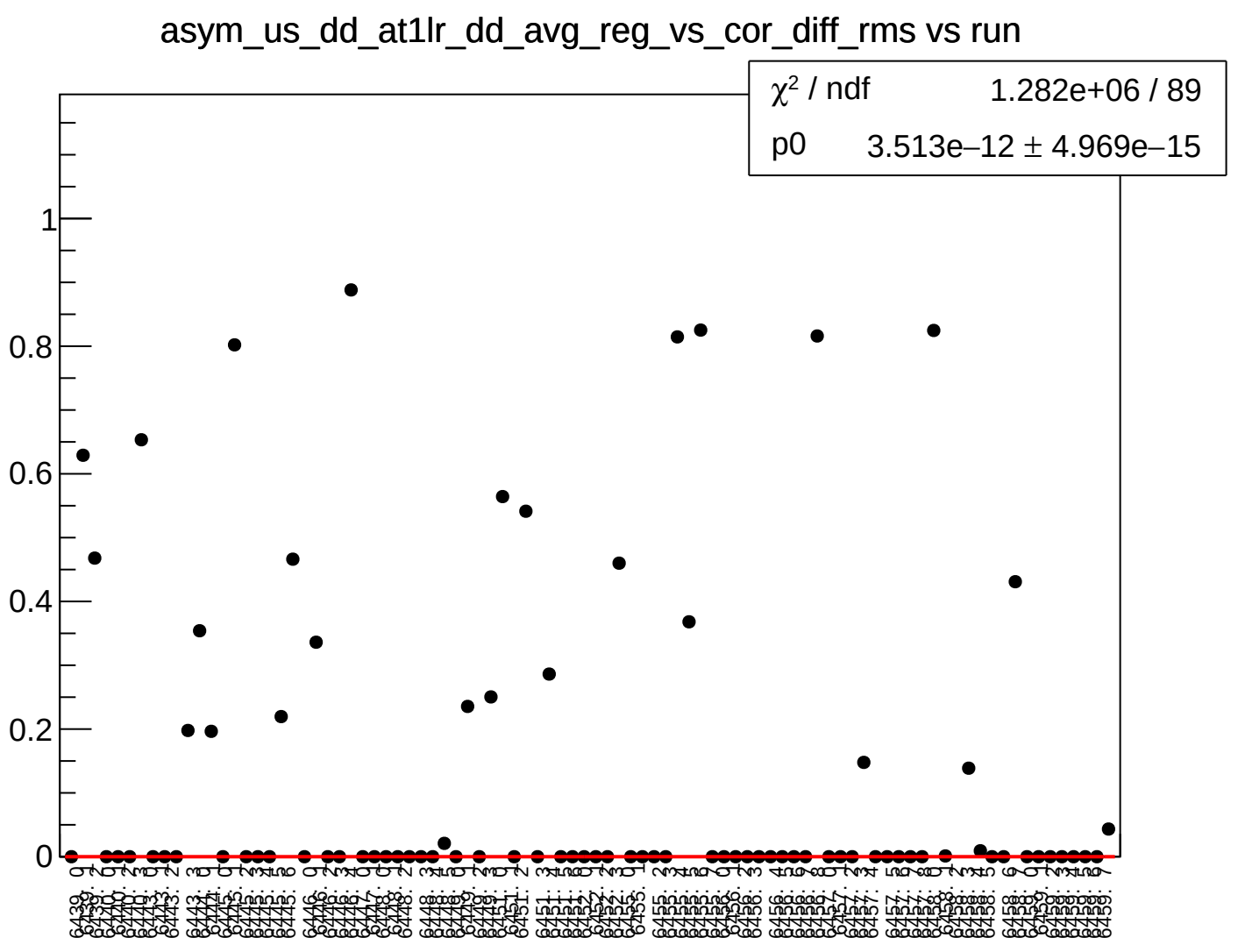

asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 96.21 / 89
p0 278.3 ± 2306
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 90
Mean 305.1
Std Dev 0
2
1
0
−1
−2

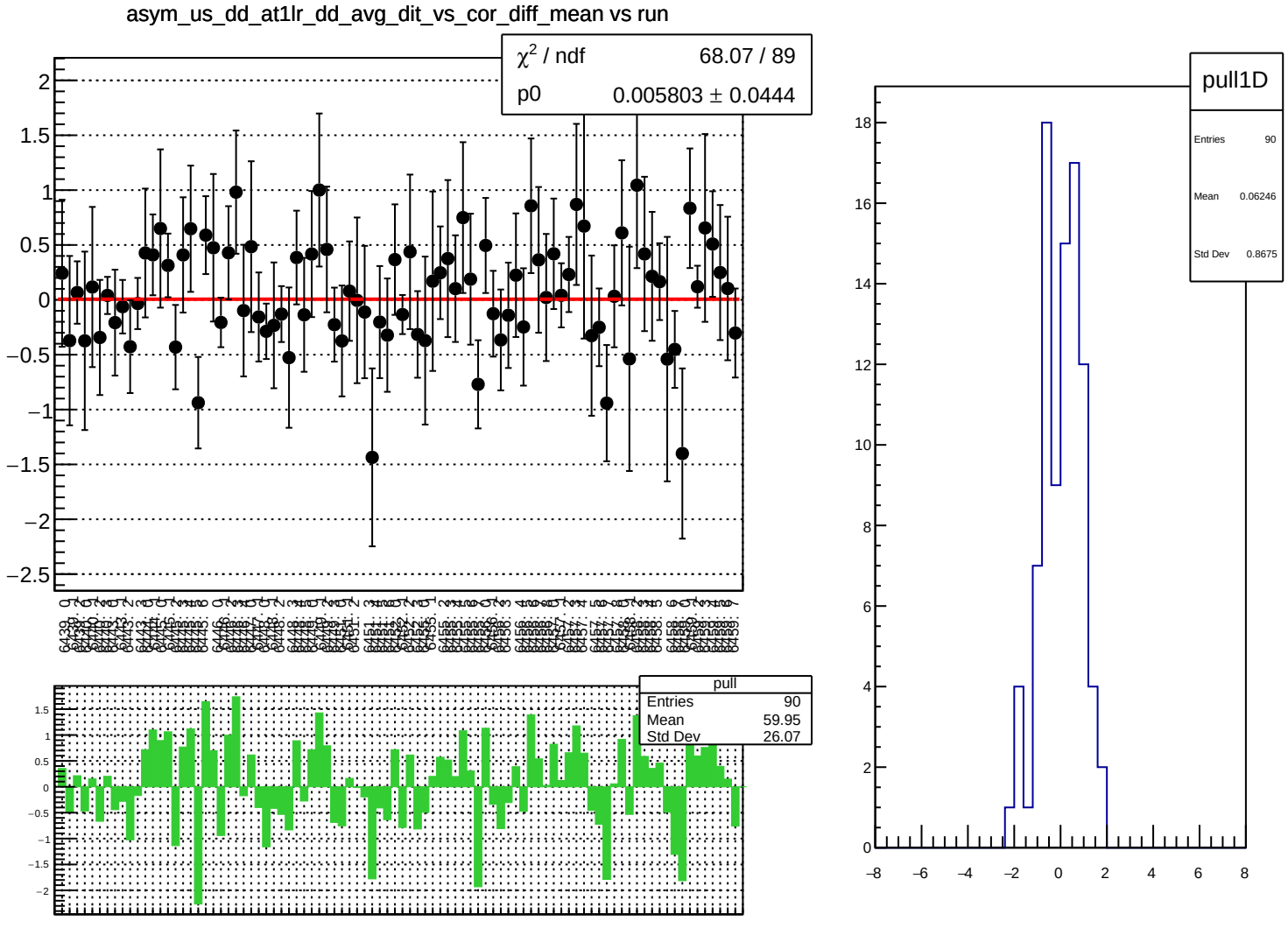

pull1D
Entries 90
Mean −0.009039
Std Dev 1.034
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

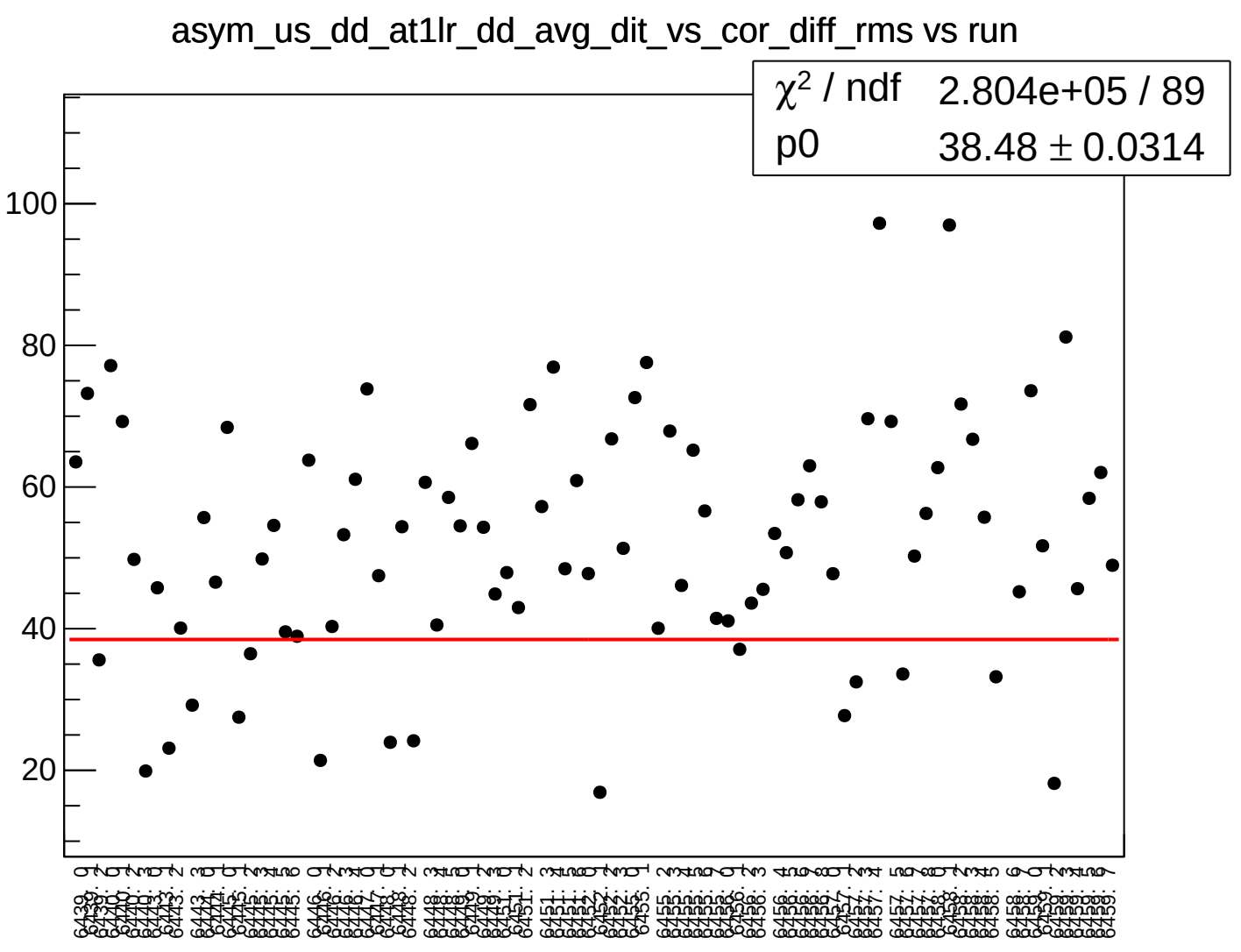

asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 98.94 / 89
p0 2176 ± 1.63
2280
2260
2240
2220
2200
2180
2160
2140
2120

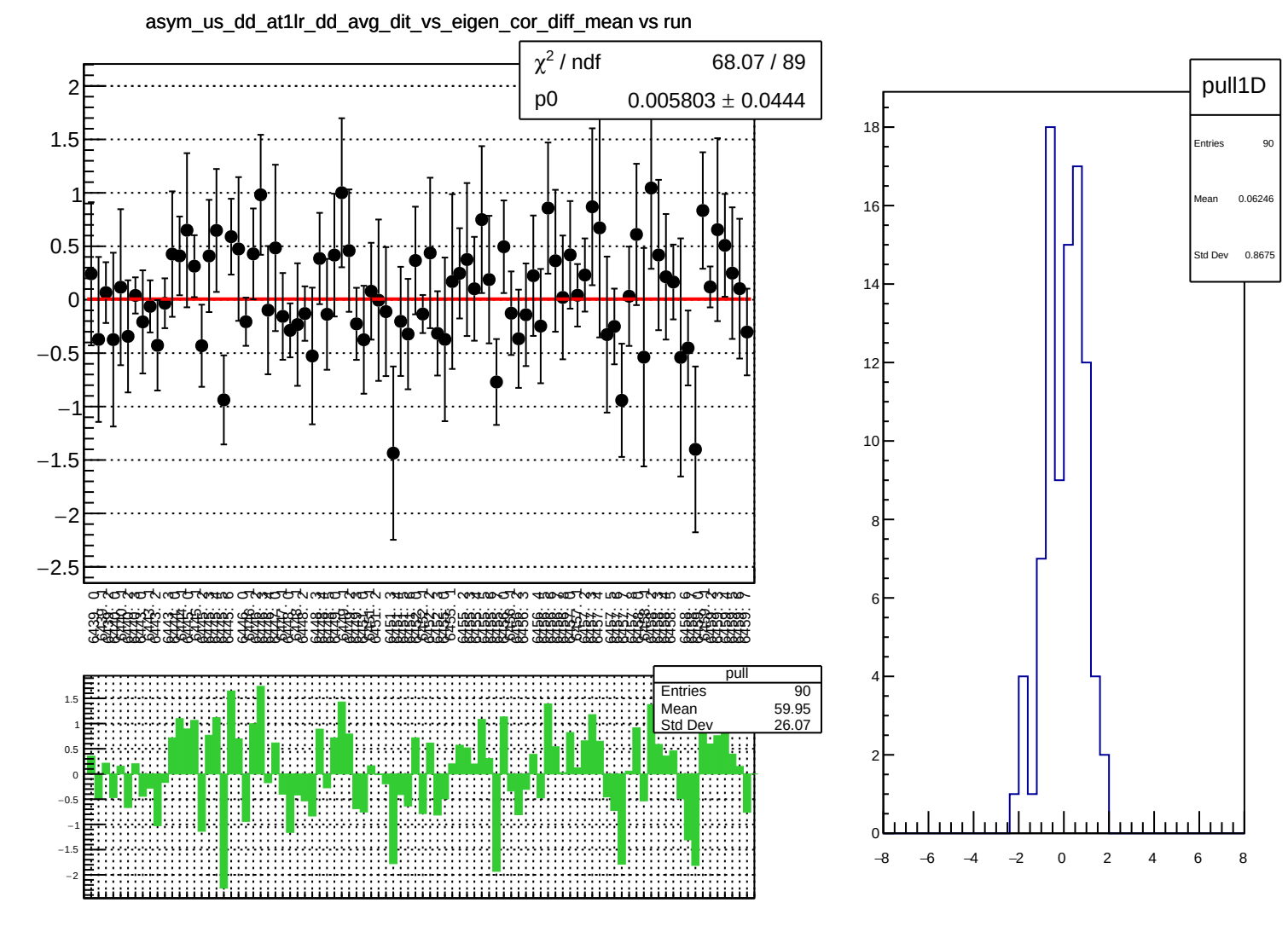

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 81.84 / 89
p0 2.585e−15 ± 7.028e−15
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 90
Mean 82.97
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

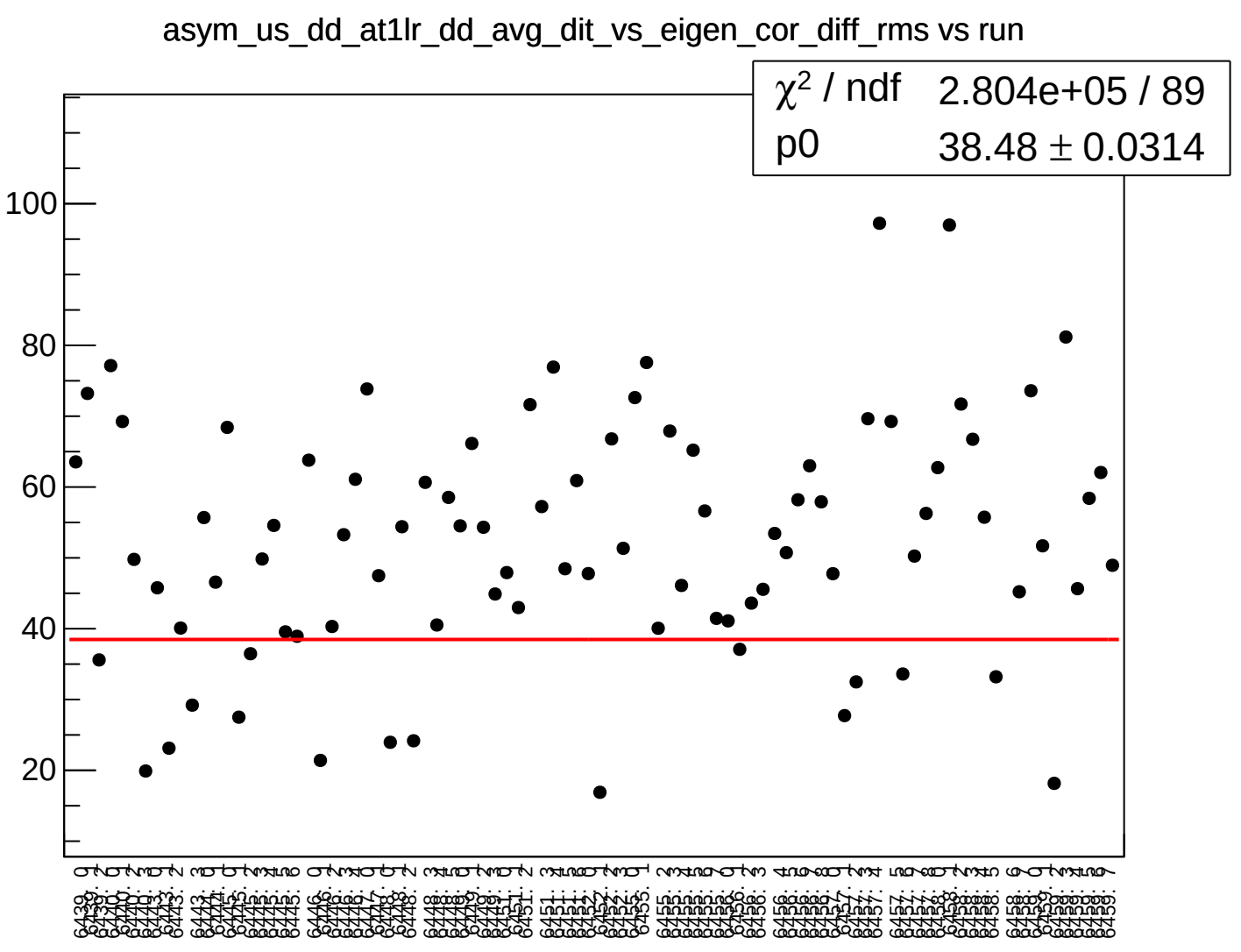

pull1D
Entries 90
Mean −0.07484
Std Dev 0.9506
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

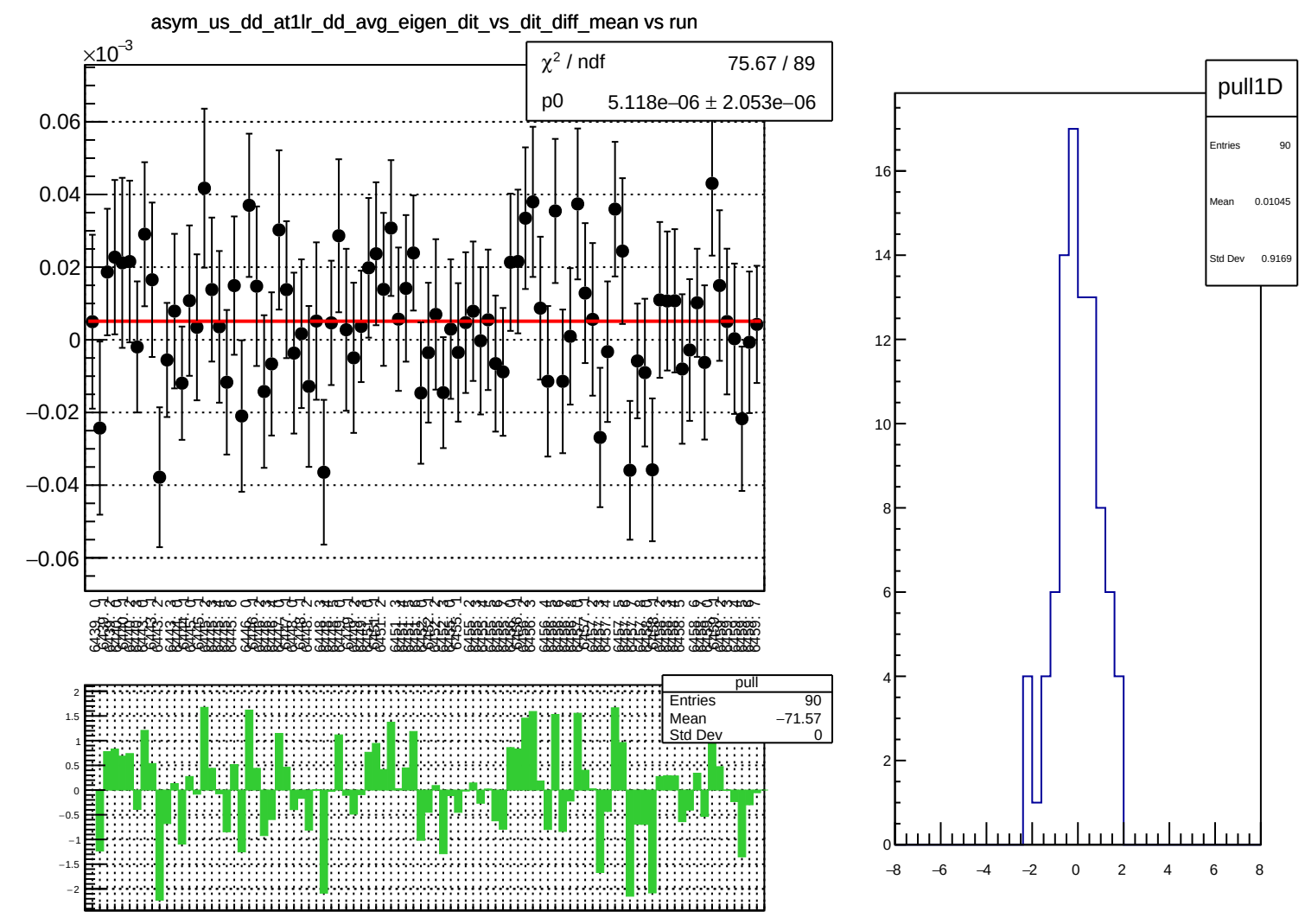

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.282e+06 / 89
p0 3.513e−12 ± 4.969e−15
1
0.8
0.6
0.4
0.2
0

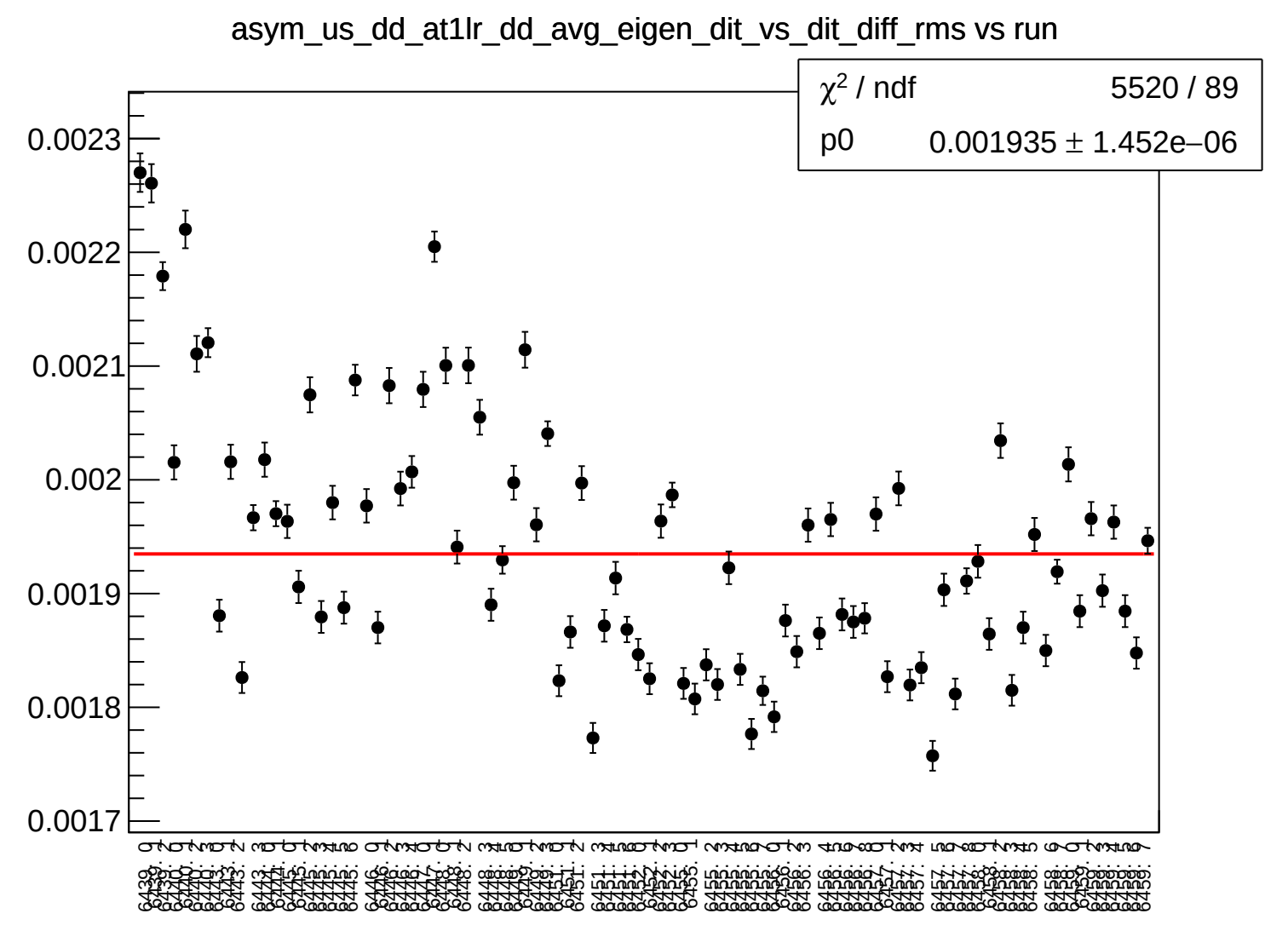

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 68.07 / 89
p0 0.005803 ± 0.0444
pull
Entries 90
Mean 59.95
Std Dev 26.07
pull1D
Entries 90
Mean 0.06246
Std Dev 0.8675

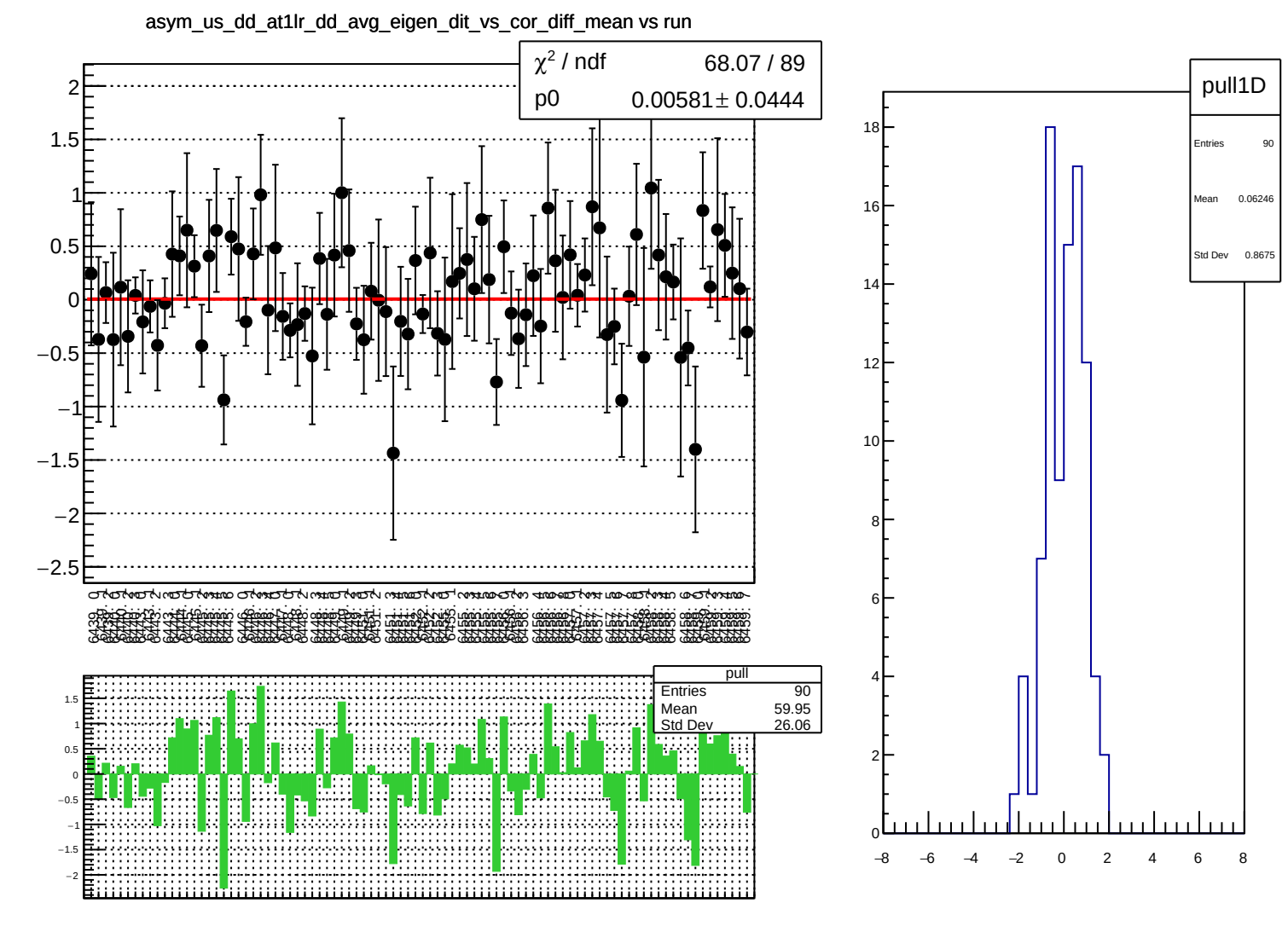

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.804e+05 / 89
p0 38.48 ± 0.0314
100
80
60
40
20

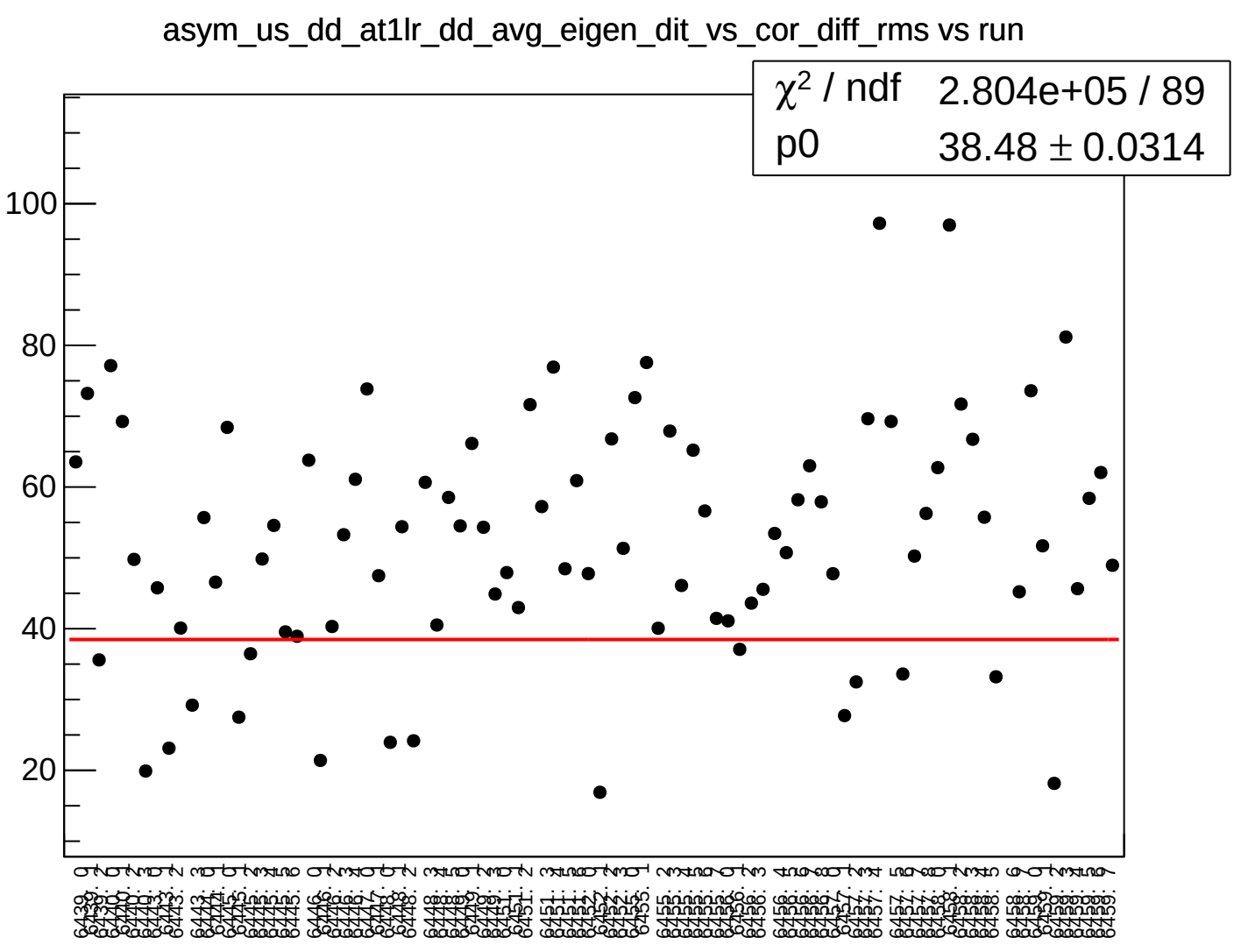

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.07 / 89
p0 0.005803 ± 0.0444
pull
Entries 90
Mean 59.95
Std Dev 26.07
pull1D
Entries 90
Mean 0.06246
Std Dev 0.8675

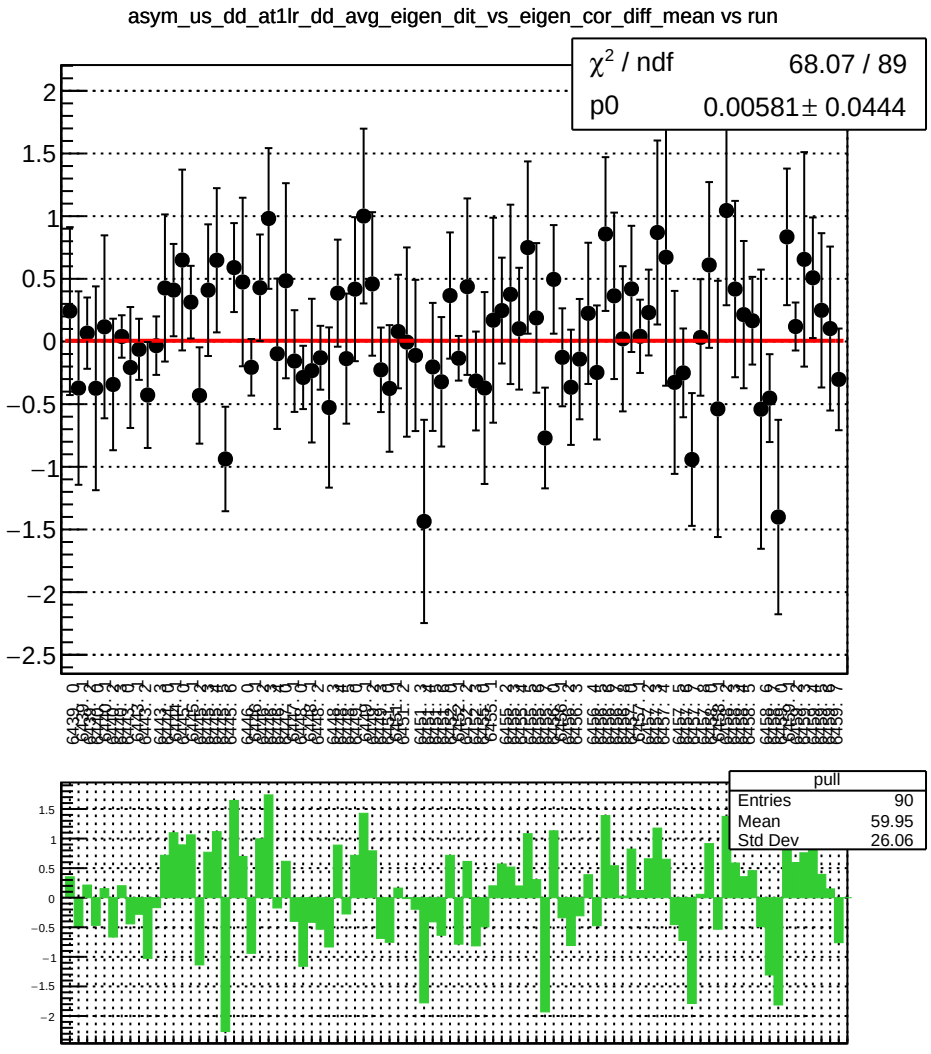

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.804e+05 / 89
p0 38.48 ± 0.0314
100
80
60
40
20

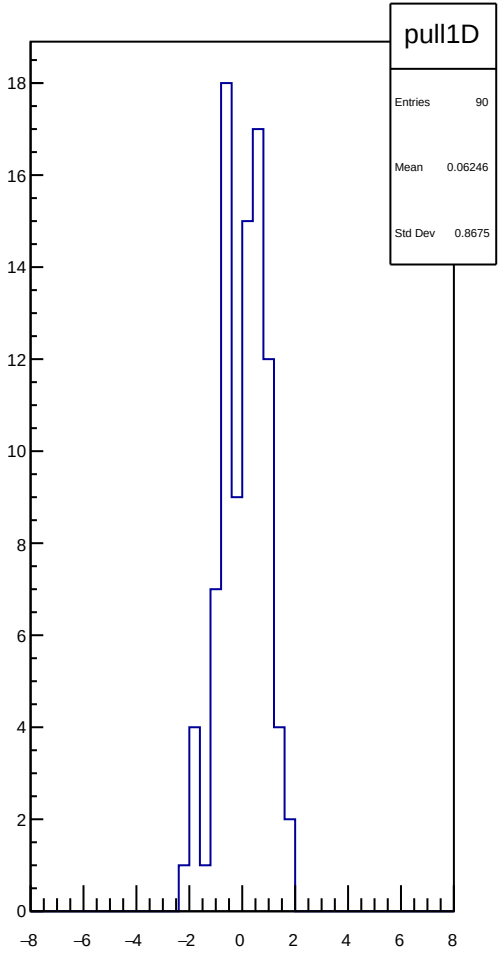

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 75.67 / 89
p0 5.118e−06 ± 2.053e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 90
Mean −71.57
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 90
Mean 0.01045
Std Dev 0.9169
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

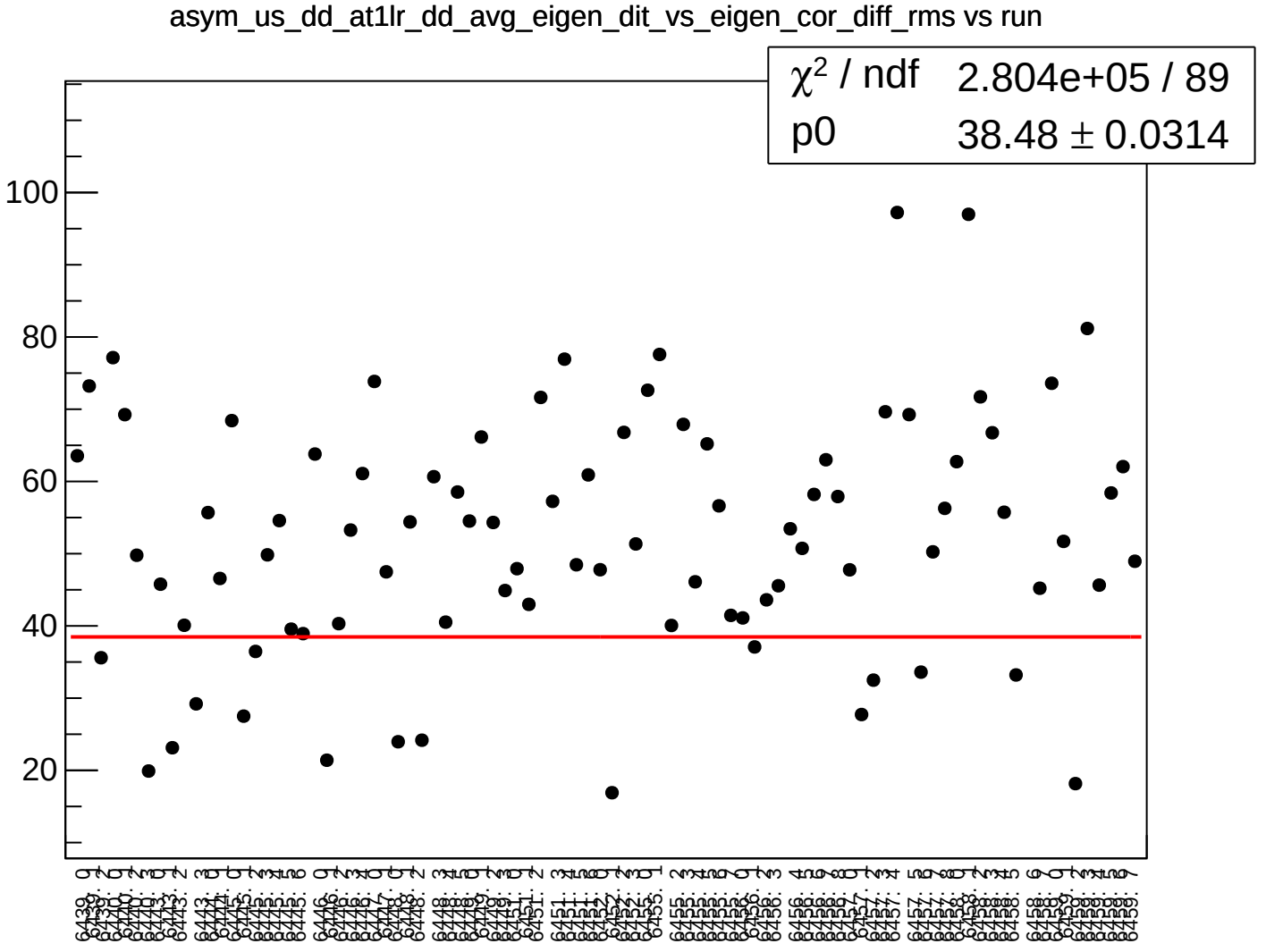

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5520 / 89
p0 0.001935 ± 1.452e−06
0.0023
0.0022
0.0021
0.002
0.0019
0.0018
0.0017

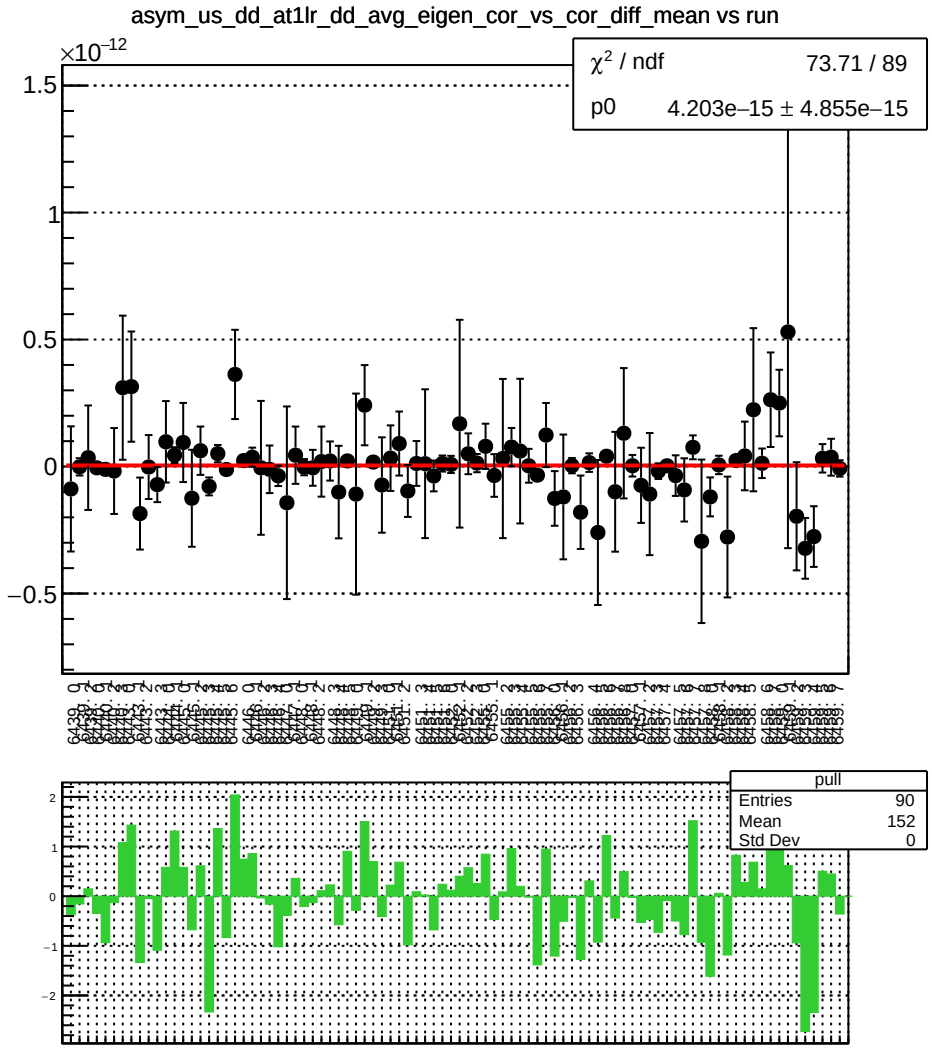

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 68.07 / 89
p0 0.00581 ± 0.0444
pull
Entries 90
Mean 59.95
Std Dev 26.06
pull1D
Entries 90
Mean 0.06246
Std Dev 0.8675

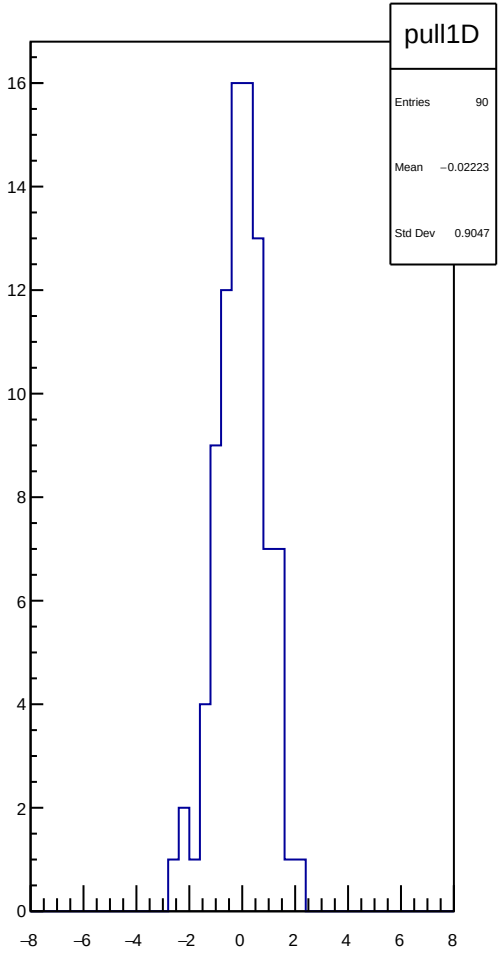

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.804e+05 / 89
p0 38.48 ± 0.0314
100
80
60
40
20

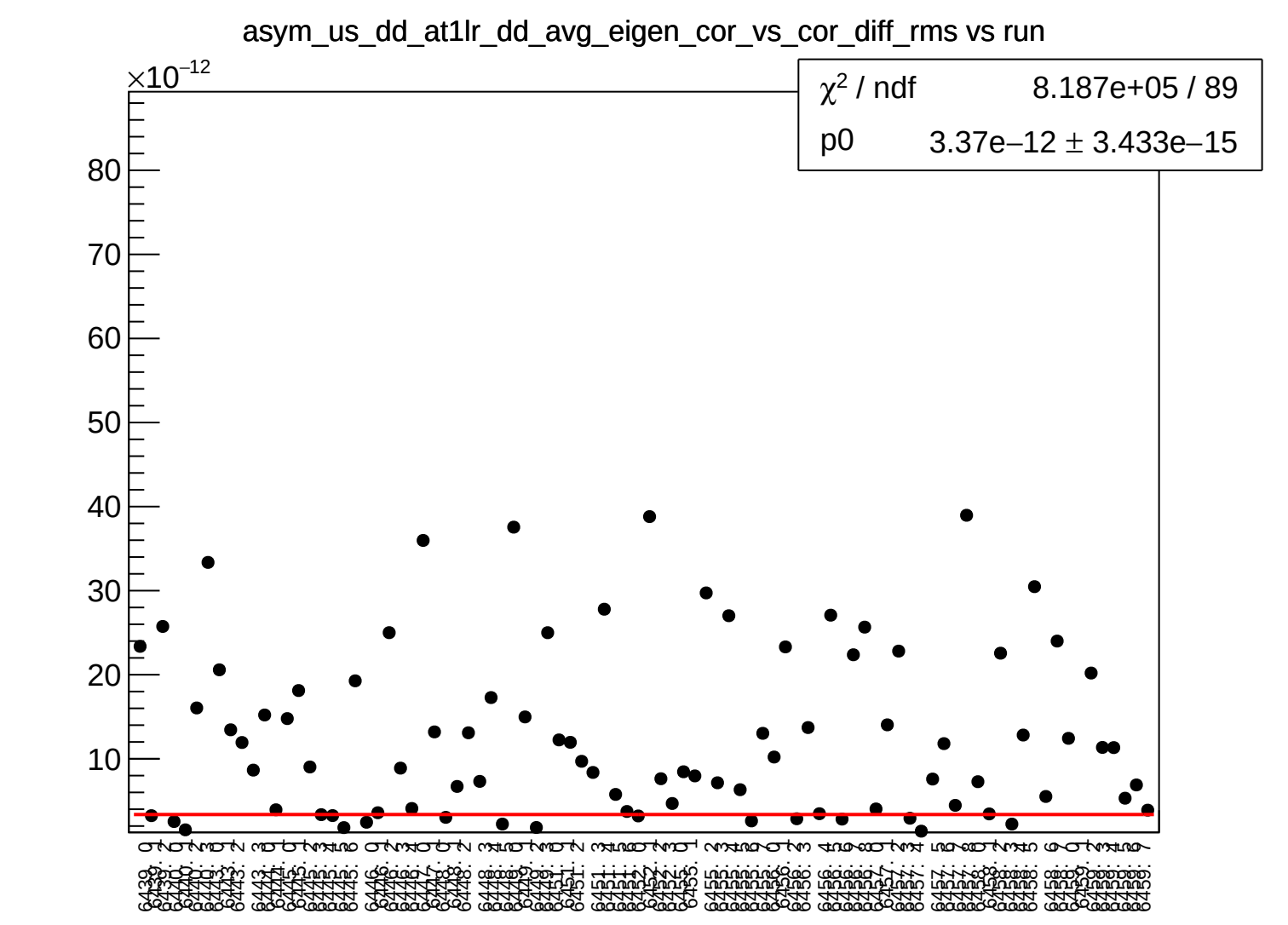

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.07 / 89
p0 0.00581 ± 0.0444
pull
Entries 90
Mean 59.95
Std Dev 26.06

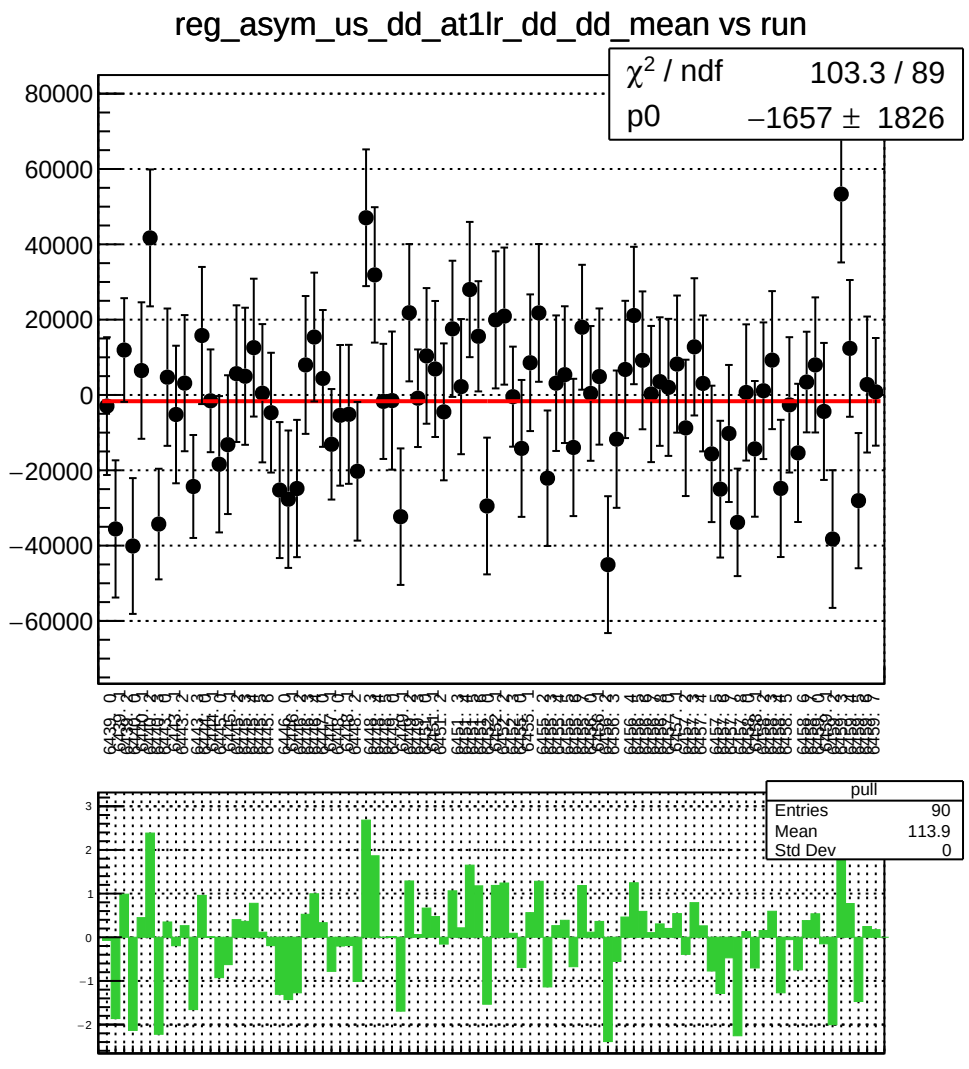

pull1D
Entries 90
Mean 0.06246
Std Dev 0.8675

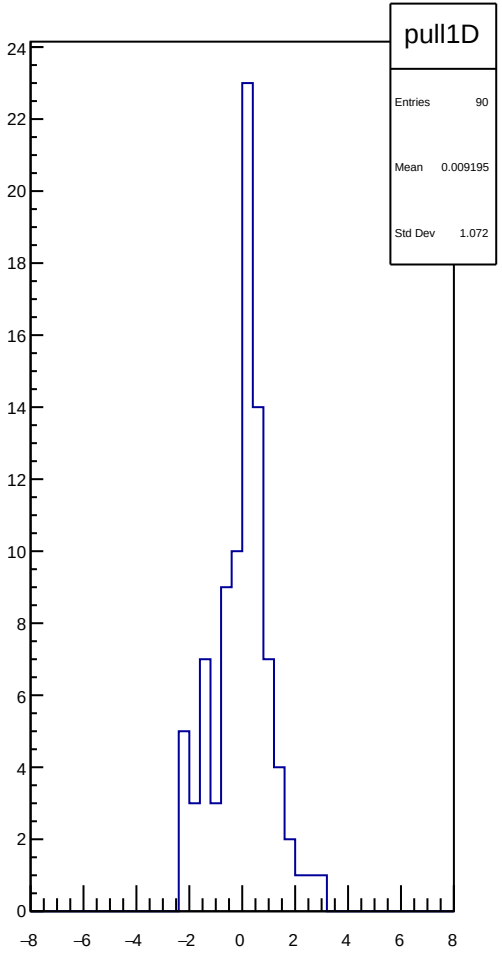

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.804e+05 / 89
p0 38.48 ± 0.0314
100
80
60
40
20

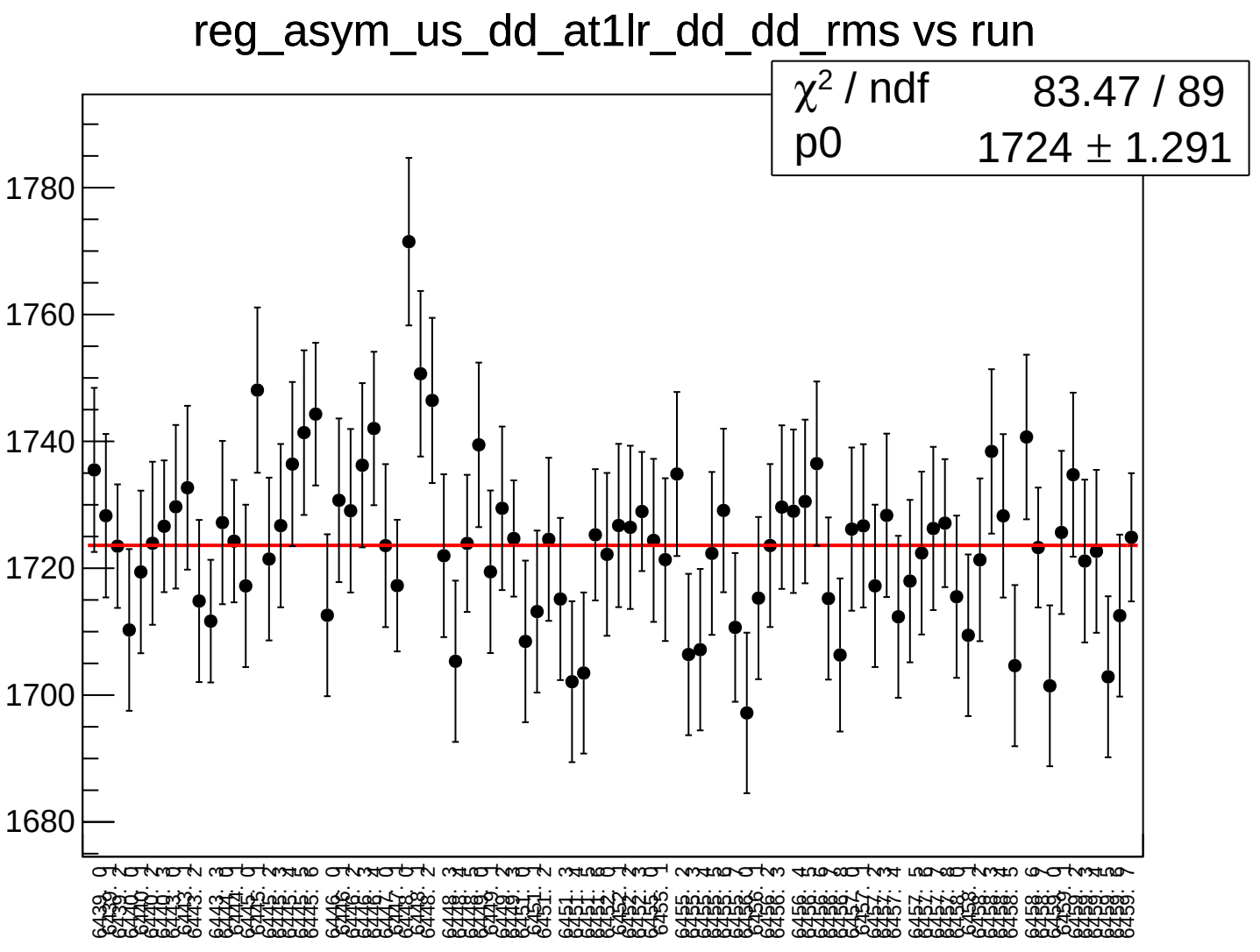

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 73.71 / 89
p0 4.203e−15 ± 4.855e−15
1.5
1
0.5
0
−0.5
pull
Entries 90
Mean 152
Std Dev 0
2
1
0
−1
−2

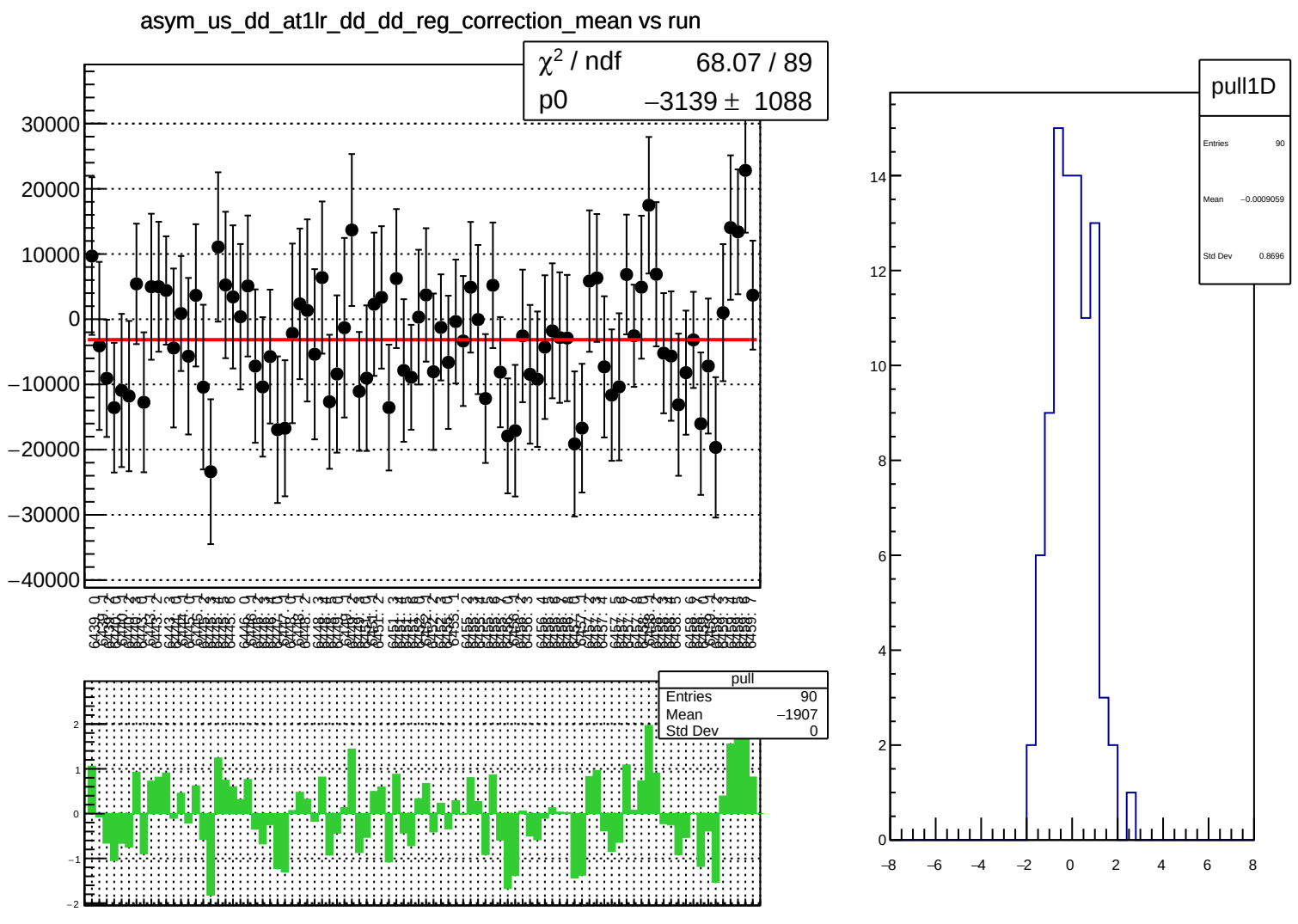

pull1D
Entries 90
Mean −0.02223
Std Dev 0.9047
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

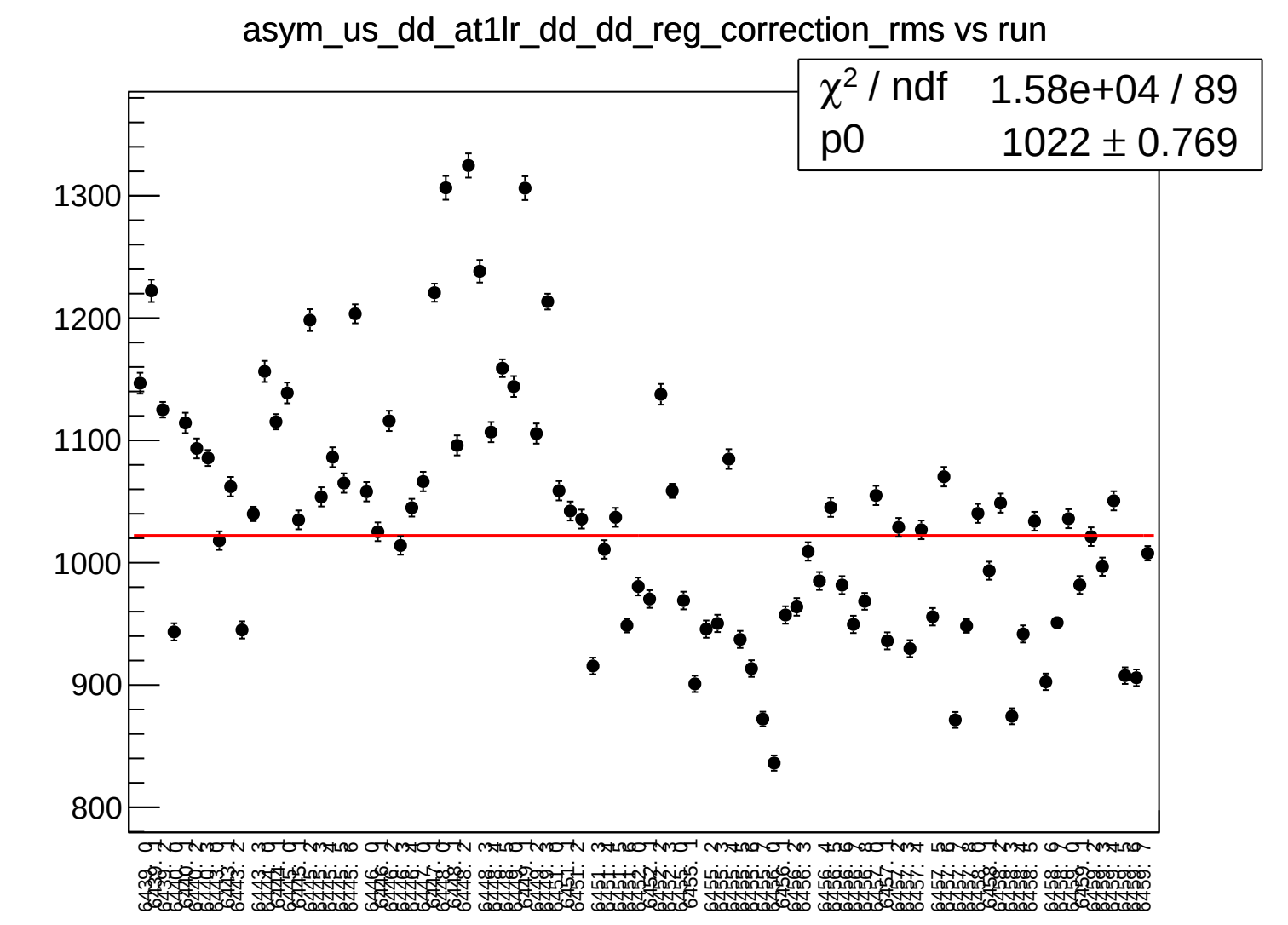

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 8.187e+05 / 89
p0 3.37e−12 ± 3.433e−15
80
70
60
50
40
30
20
10

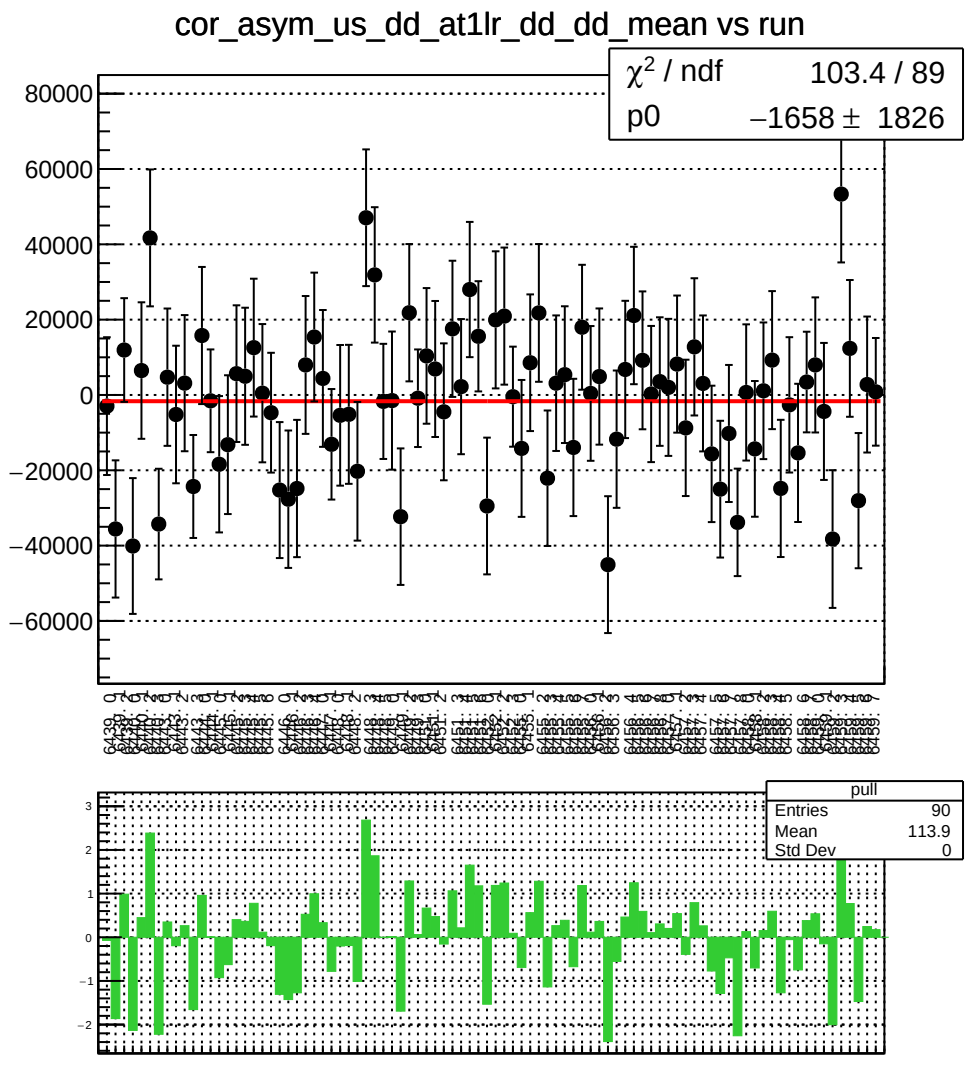

reg_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 103.3 / 89
p0 −1657 ± 1826
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 113.9
Std Dev 0
3
2
1
0
−1
−2

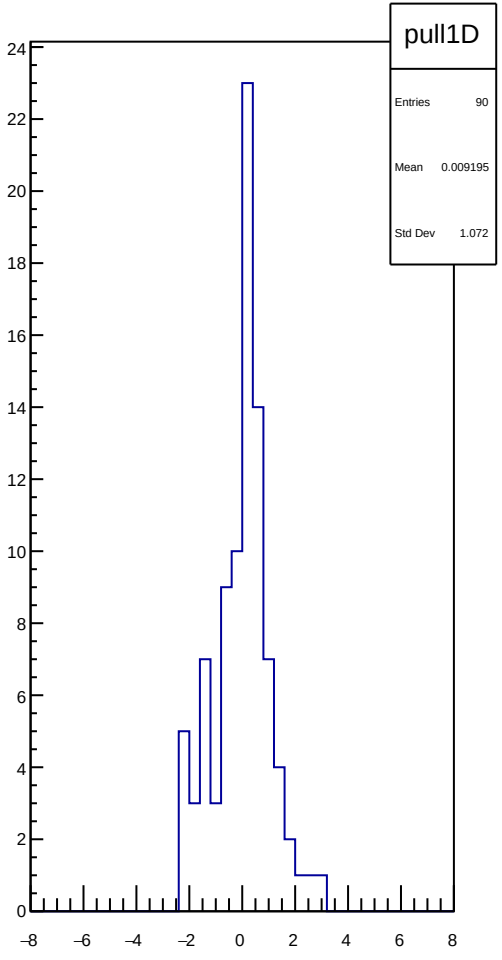

pull1D
Entries 90
Mean 0.009195
Std Dev 1.072
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

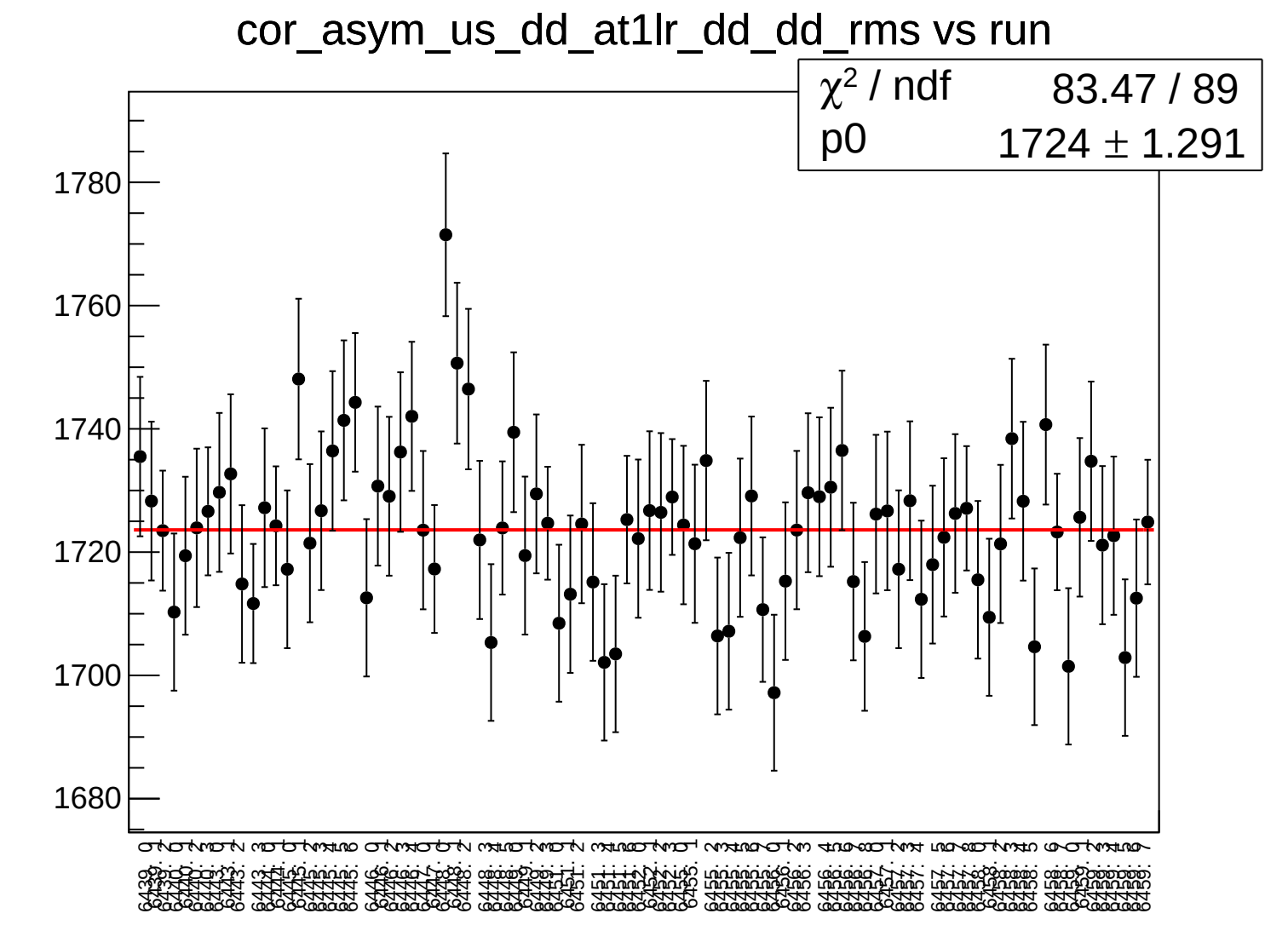

reg_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 83.47 / 89
p0 1724 ± 1.291
1780
1760
1740
1720
1700
1680

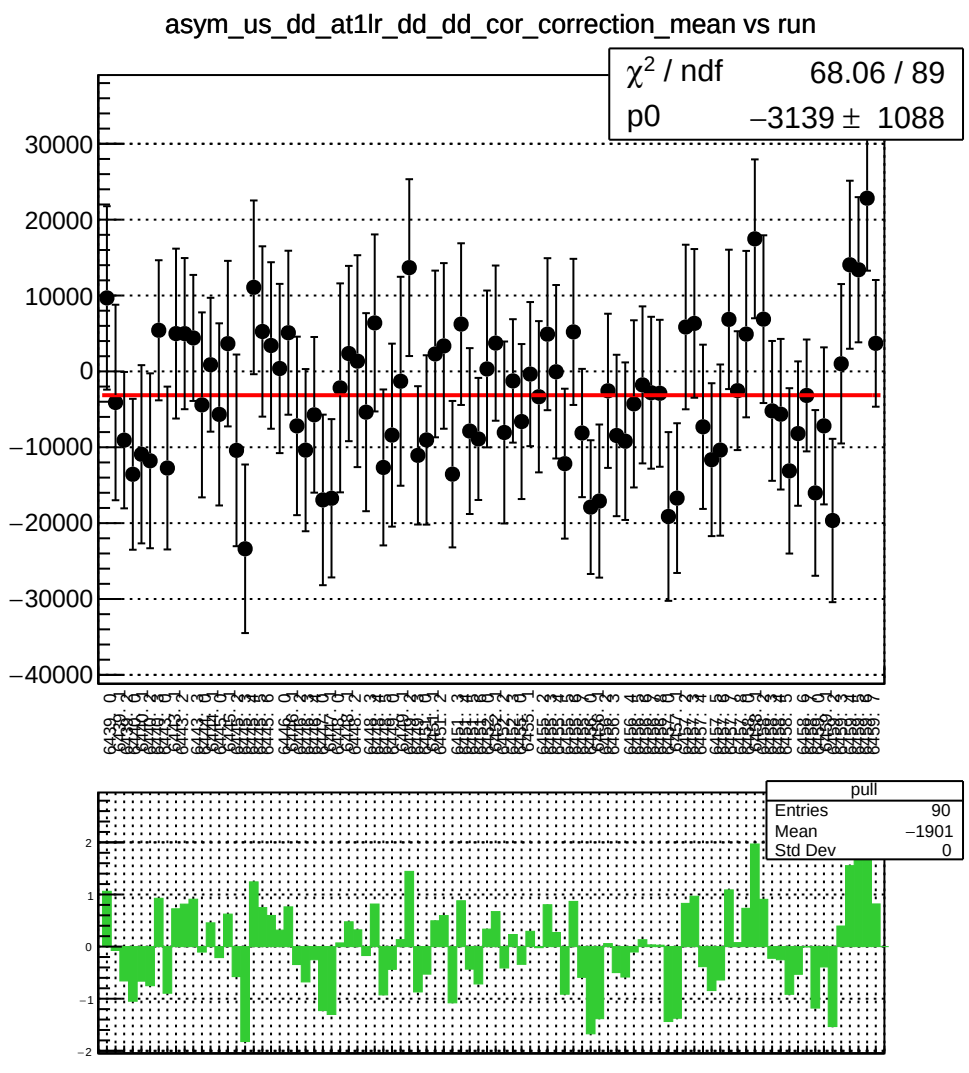

asym_us_dd_at1lr_dd_dd_reg_correction_mean vs run
χ² / ndf 68.07 / 89
p0 −3139 ± 1088
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 90
Mean −1907
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.0009059
Std Dev 0.8696
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

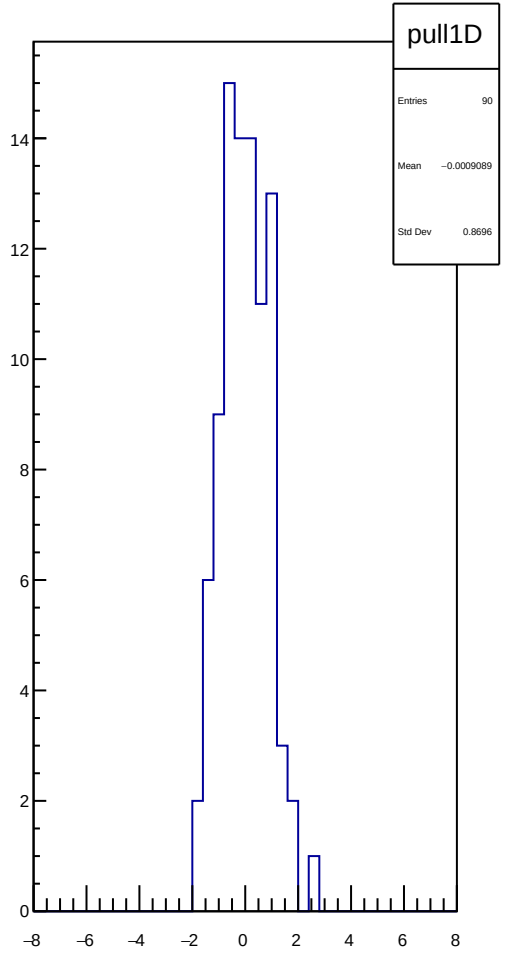

asym_us_dd_at1lr_dd_dd_reg_correction_rms vs run
χ² / ndf 1.58e+04 / 89
p0 1022 ± 0.769
1300
1200
1100
1000
900
800

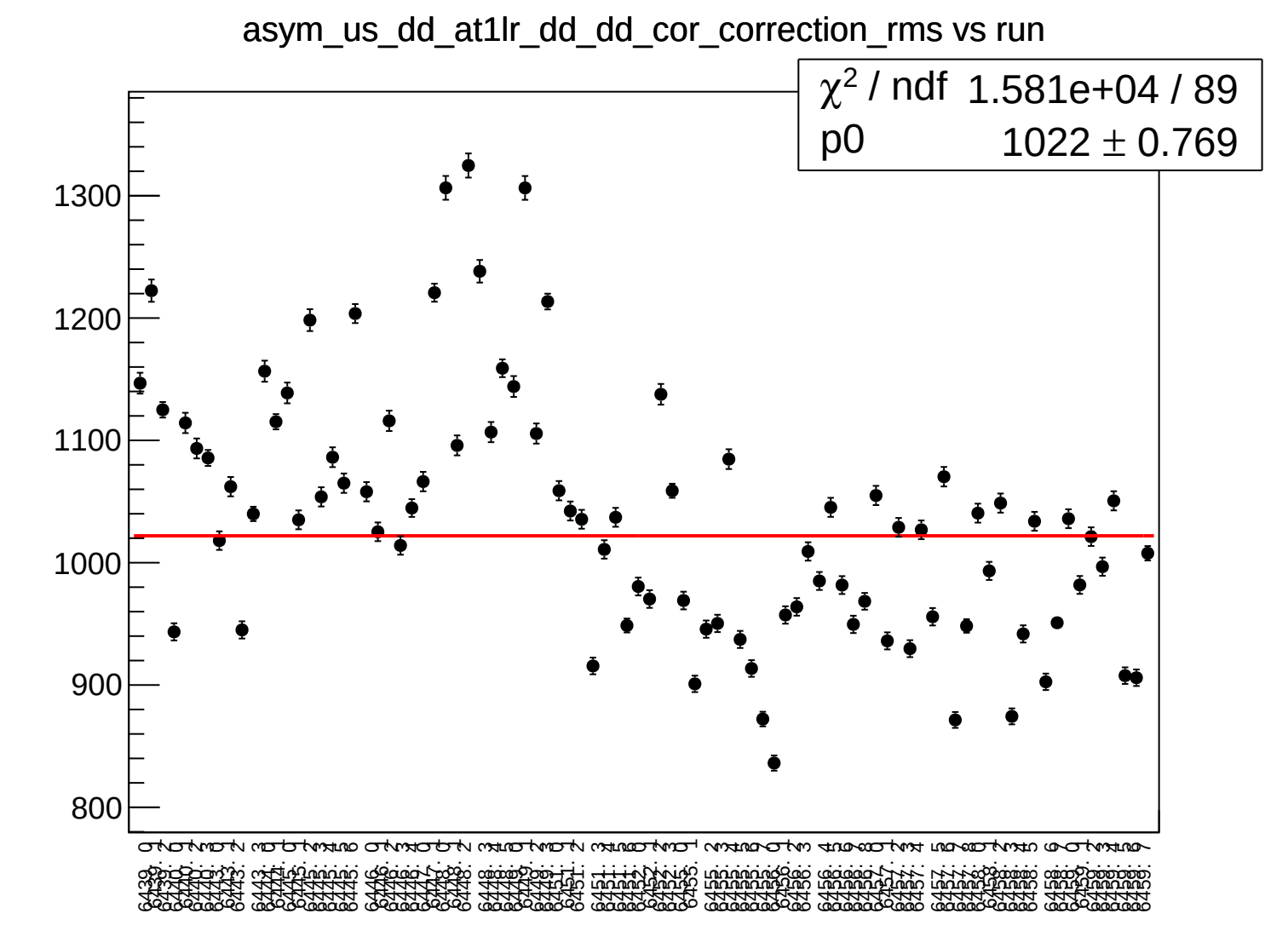

cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 103.4 / 89
p0 −1658 ± 1826
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 113.9
Std Dev 0
3
2
1
0
−1
−2

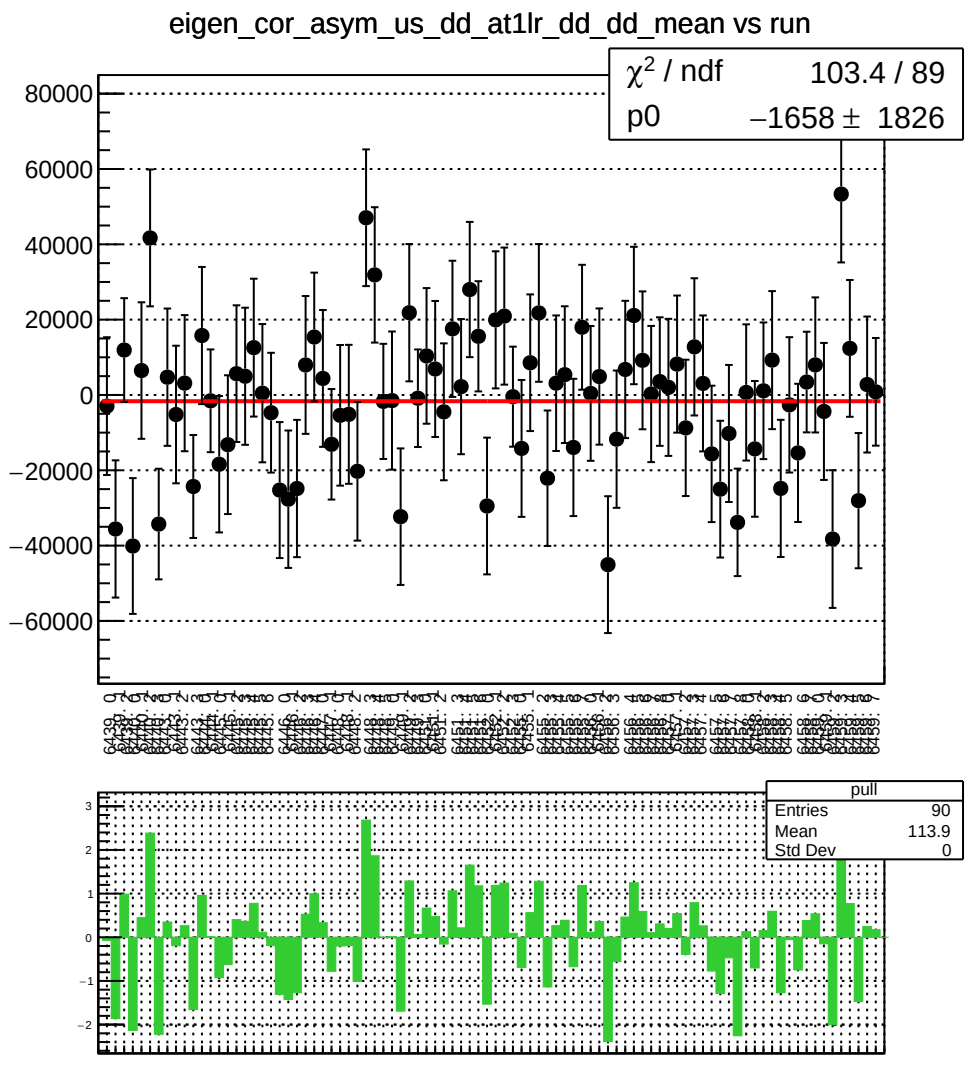

pull1D
Entries 90
Mean 0.009195
Std Dev 1.072
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

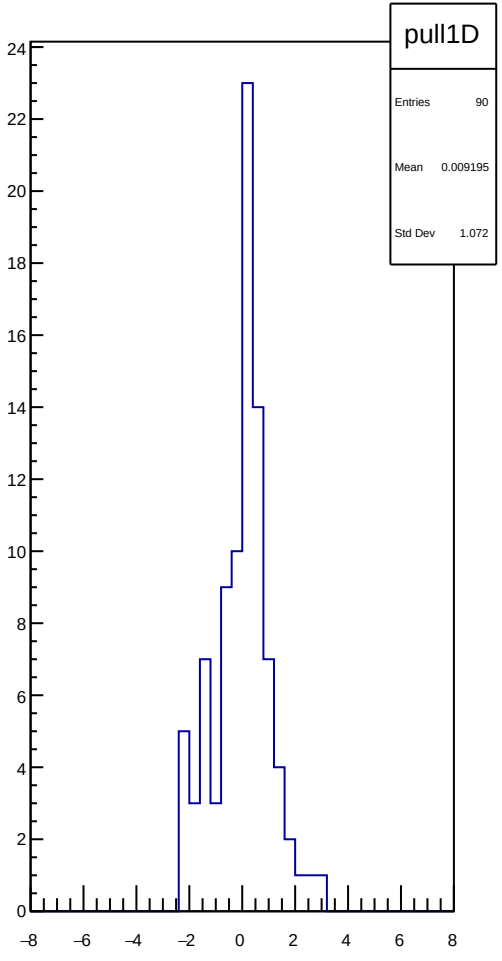

cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 83.47 / 89
p0 1724 ± 1.291
1780
1760
1740
1720
1700
1680

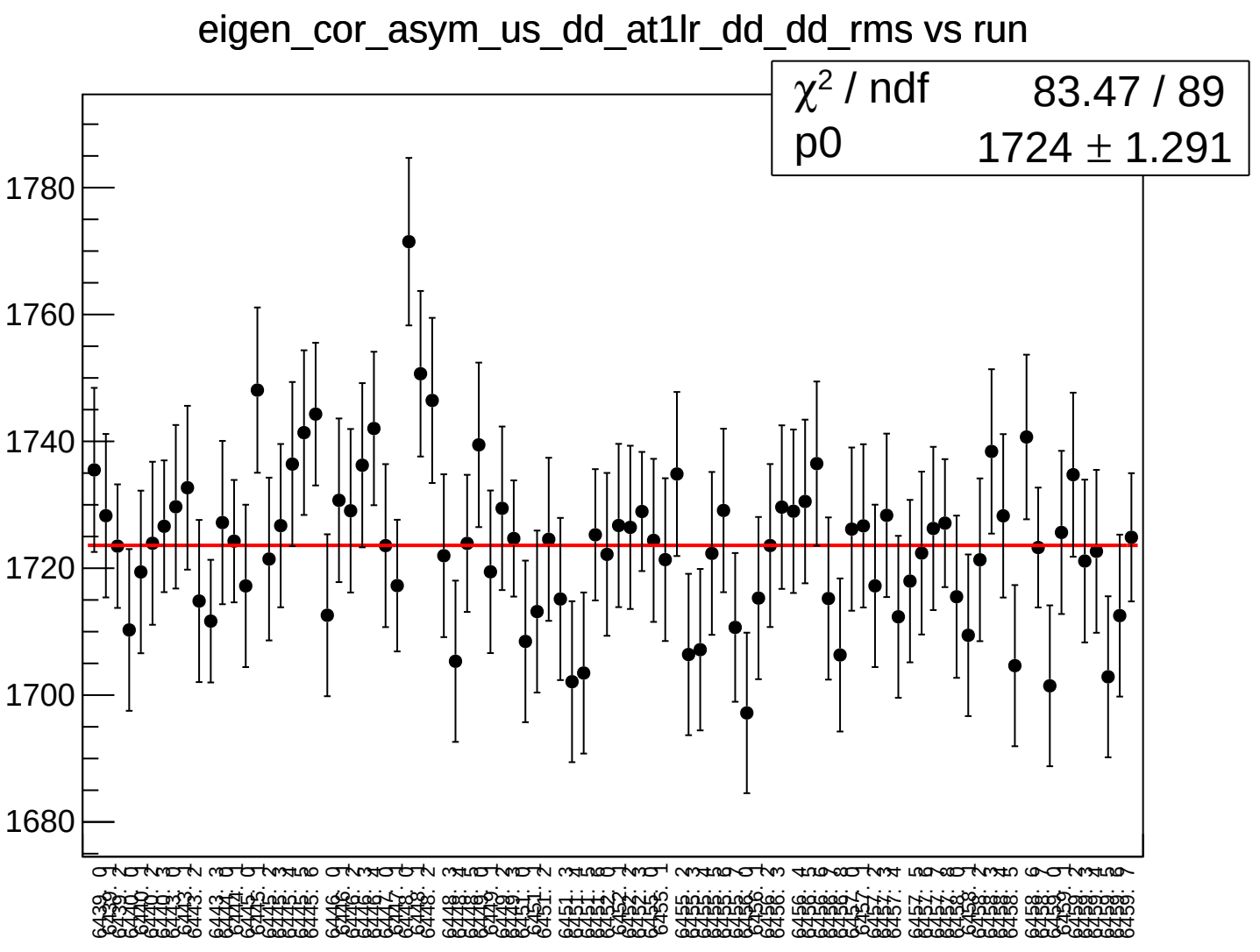

asym_us_dd_at1lr_dd_dd_cor_correction_mean vs run
χ² / ndf 68.06 / 89
p0 −3139 ± 1088
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 90
Mean −1901
Std Dev 0
2
1
0
−1
−2

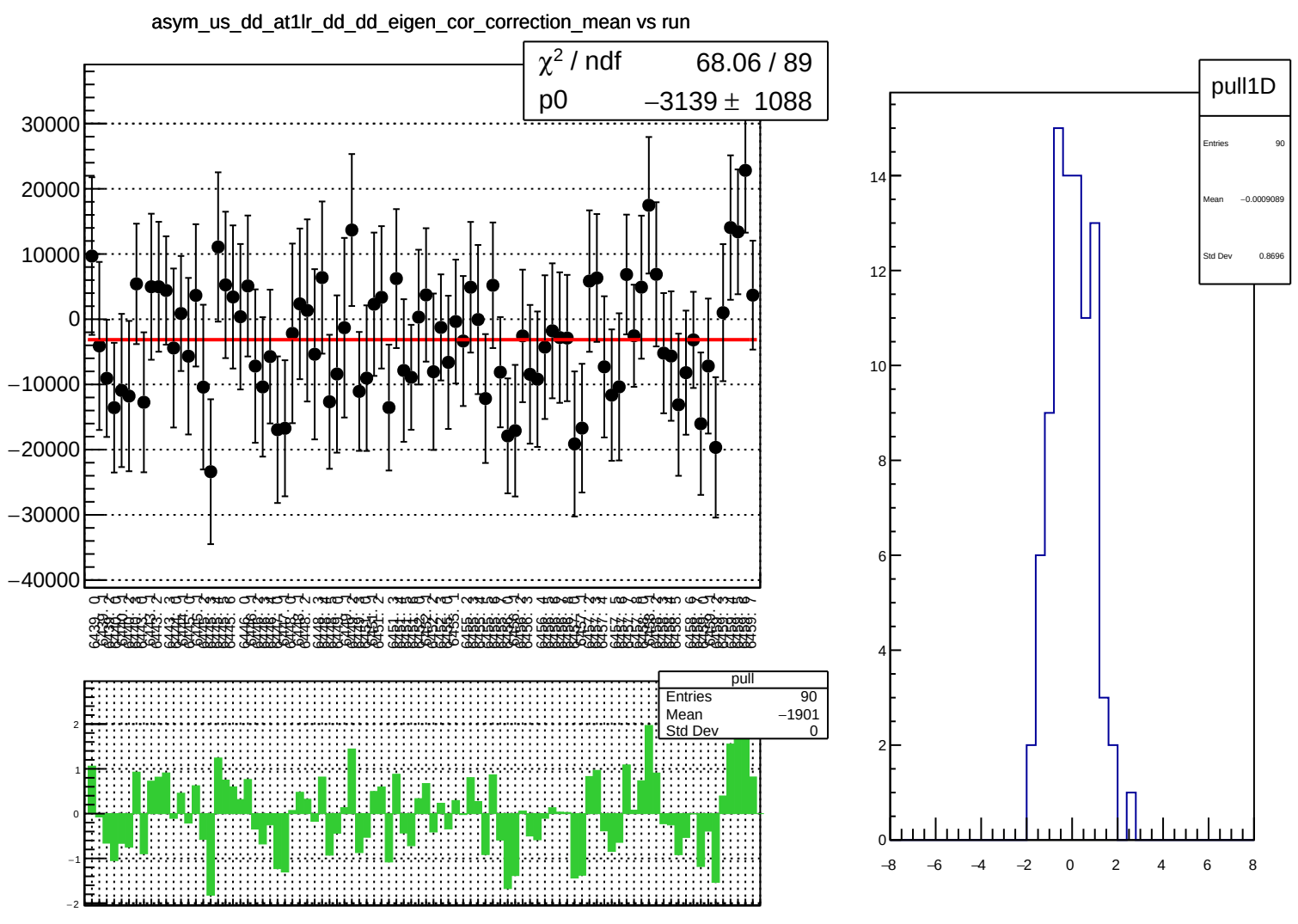

pull1D
Entries 90
Mean −0.0009089
Std Dev 0.8696
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

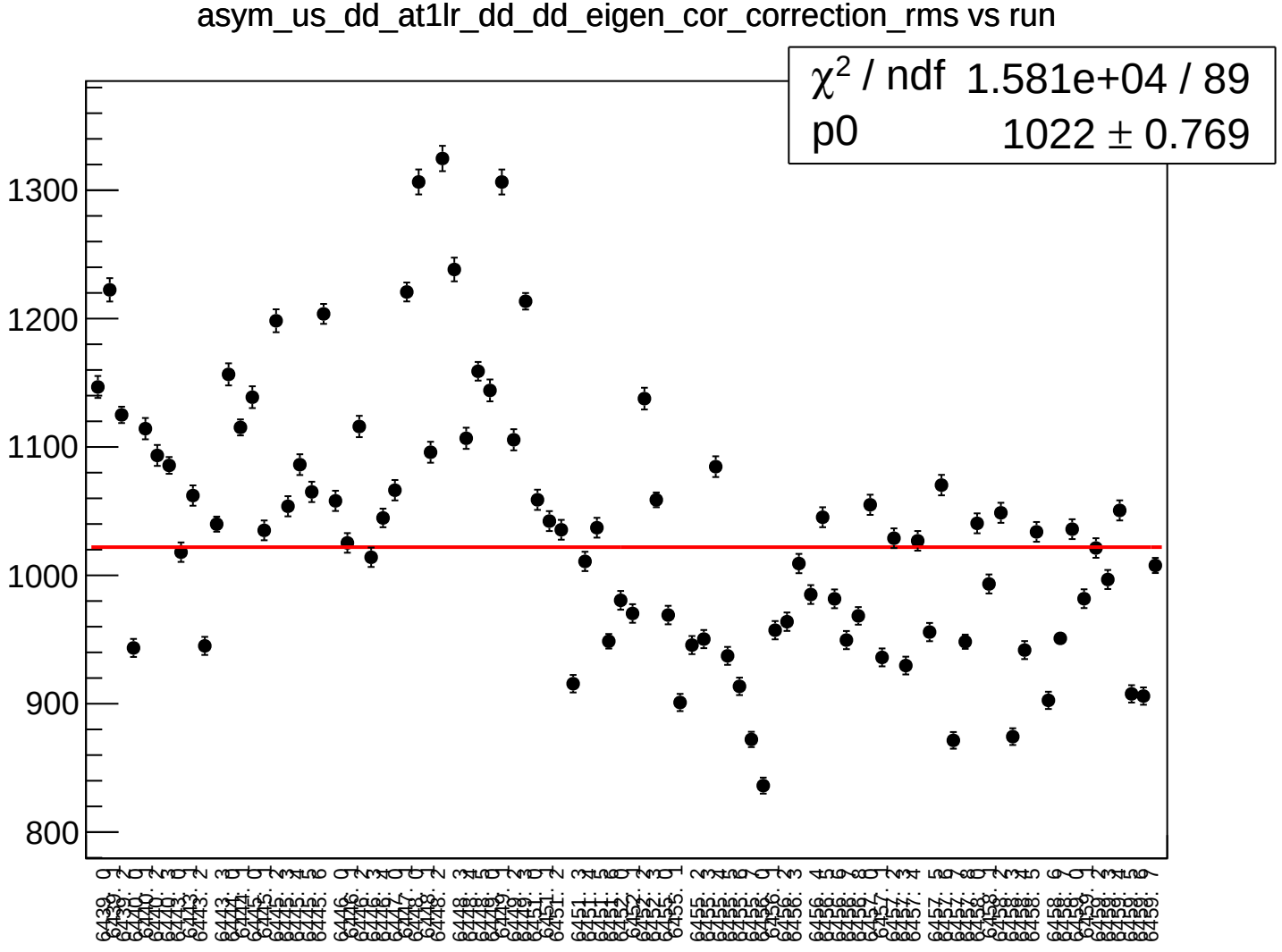

asym_us_dd_at1lr_dd_dd_cor_correction_rms vs run
χ² / ndf 1.581e+04 / 89
p0 1022 ± 0.769
1300
1200
1100
1000
900
800

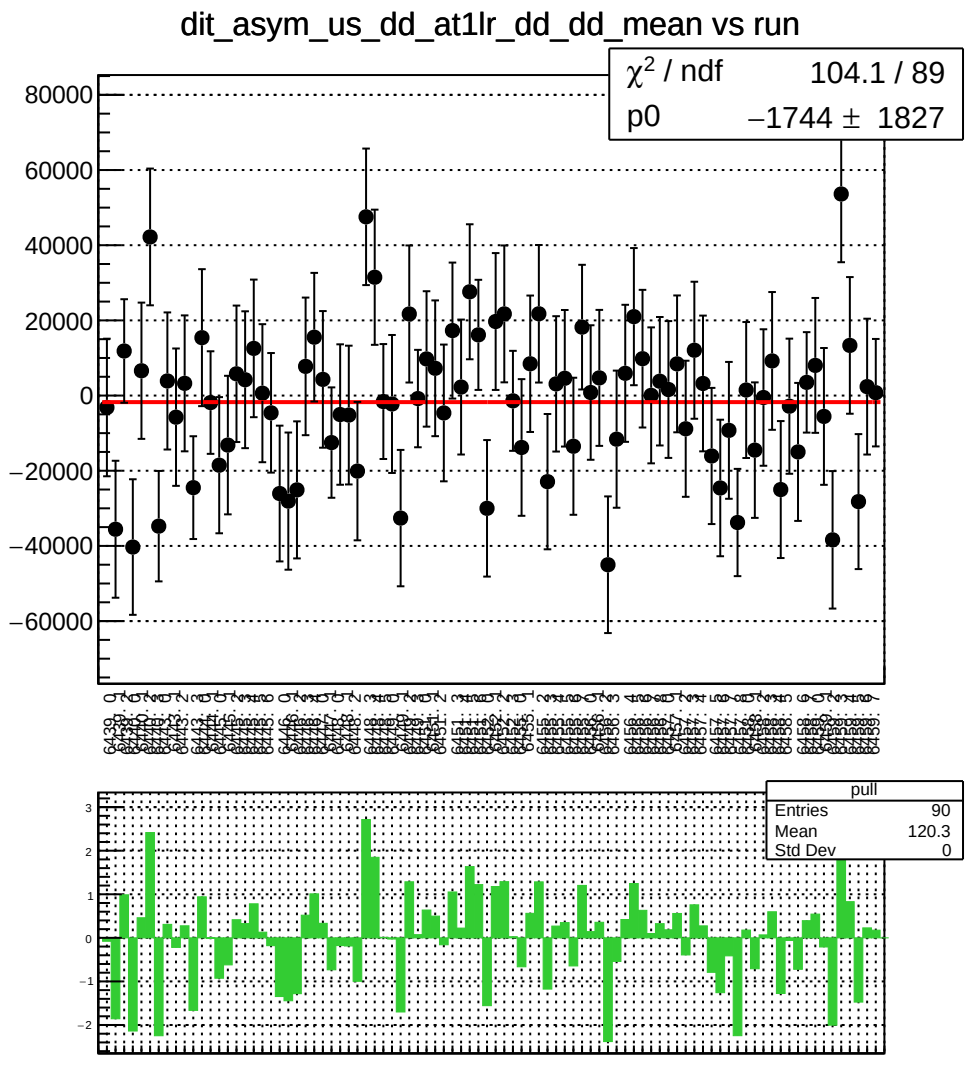

eigen_cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 103.4 / 89
p0 −1658 ± 1826
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 113.9
Std Dev 0
3
2
1
0
−1
−2

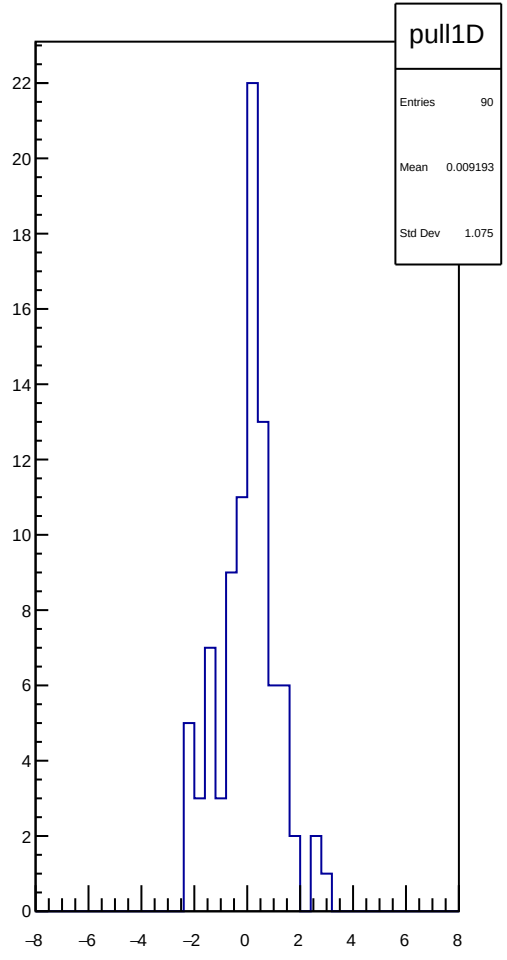

pull1D
Entries 90
Mean 0.009195
Std Dev 1.072
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

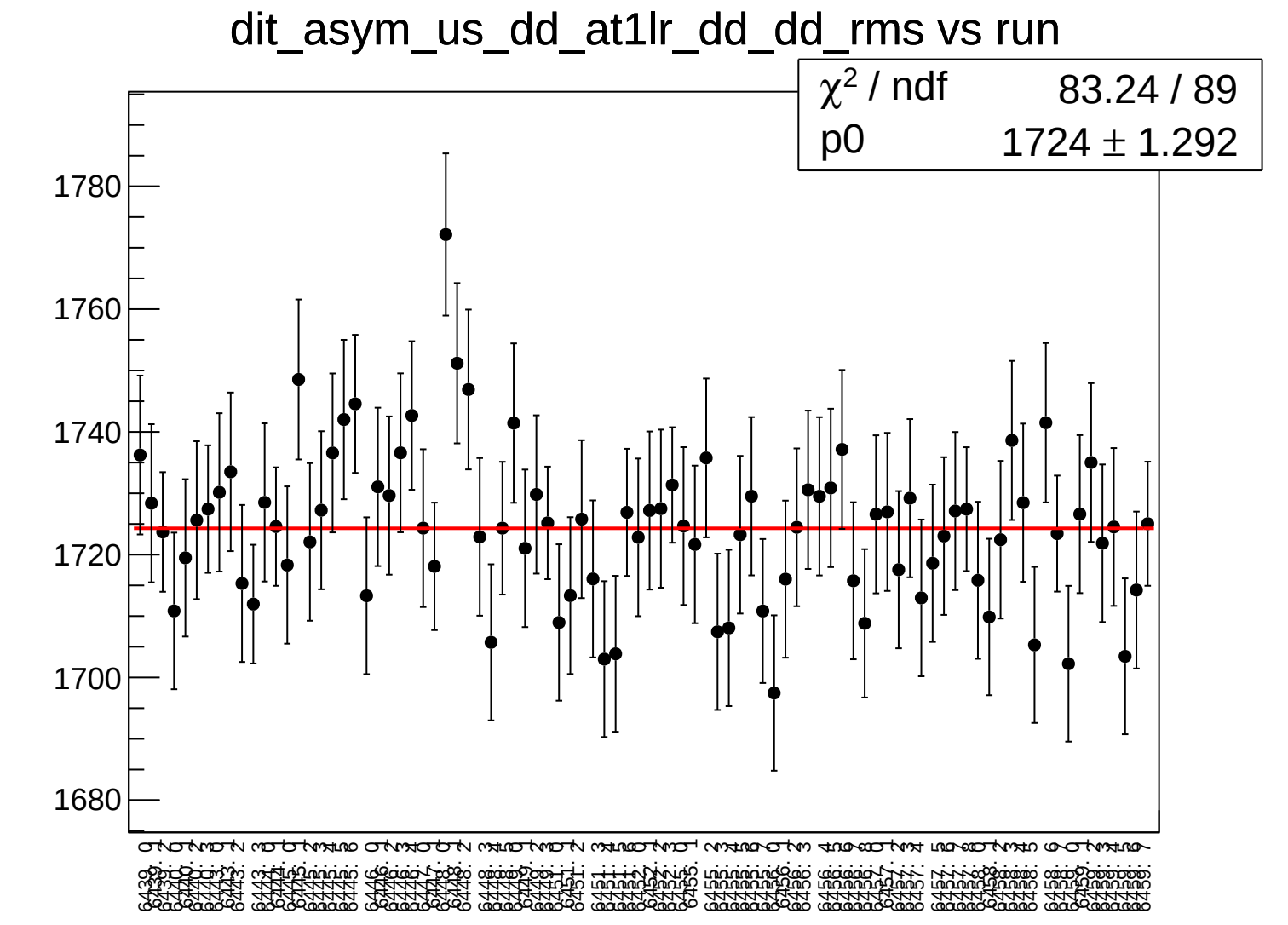

eigen_cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 83.47 / 89
p0 1724 ± 1.291
1780
1760
1740
1720
1700
1680

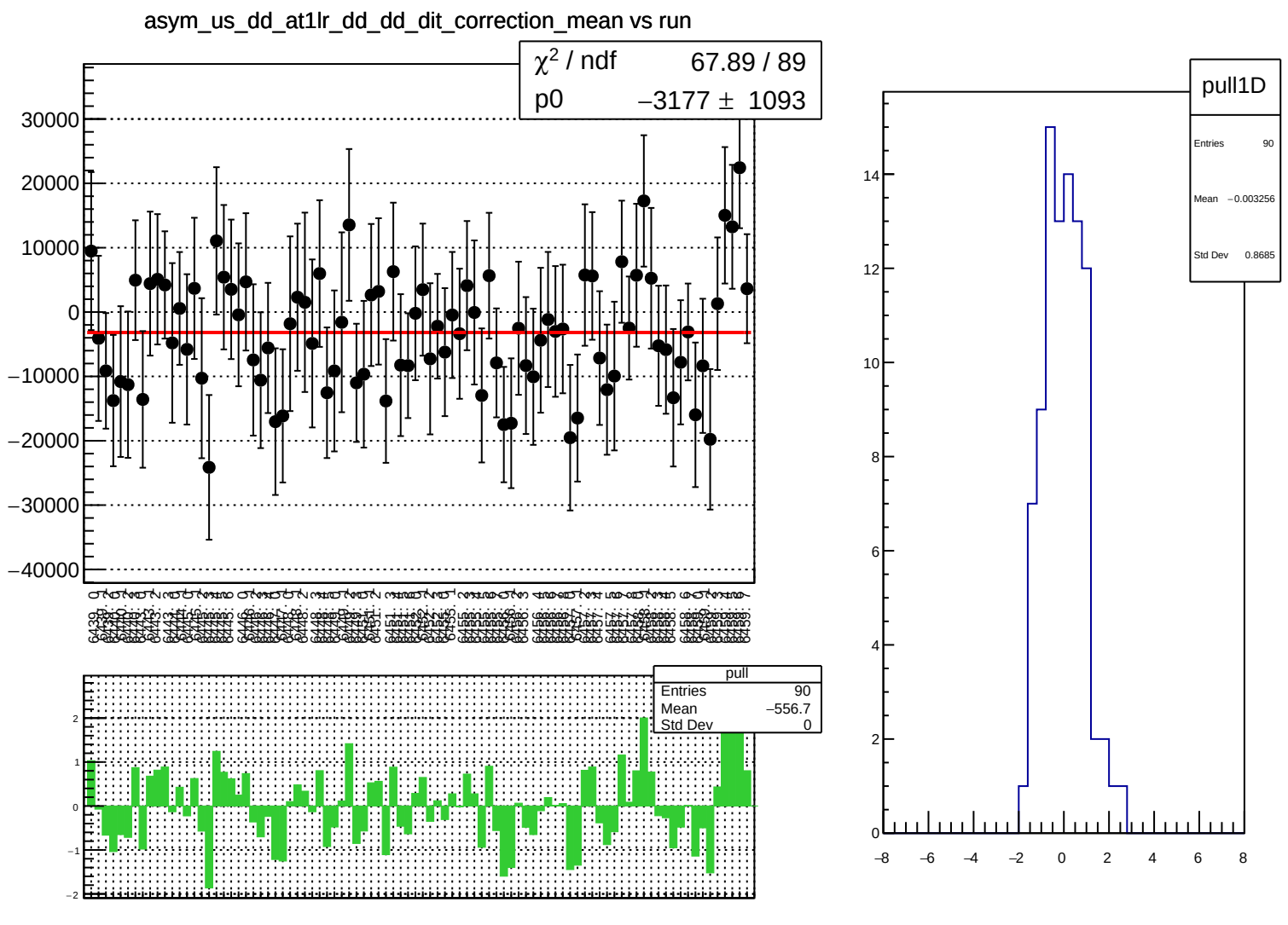

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 68.06 / 89
p0 −3139 ± 1088
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 90
Mean −1901
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.0009089
Std Dev 0.8696
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

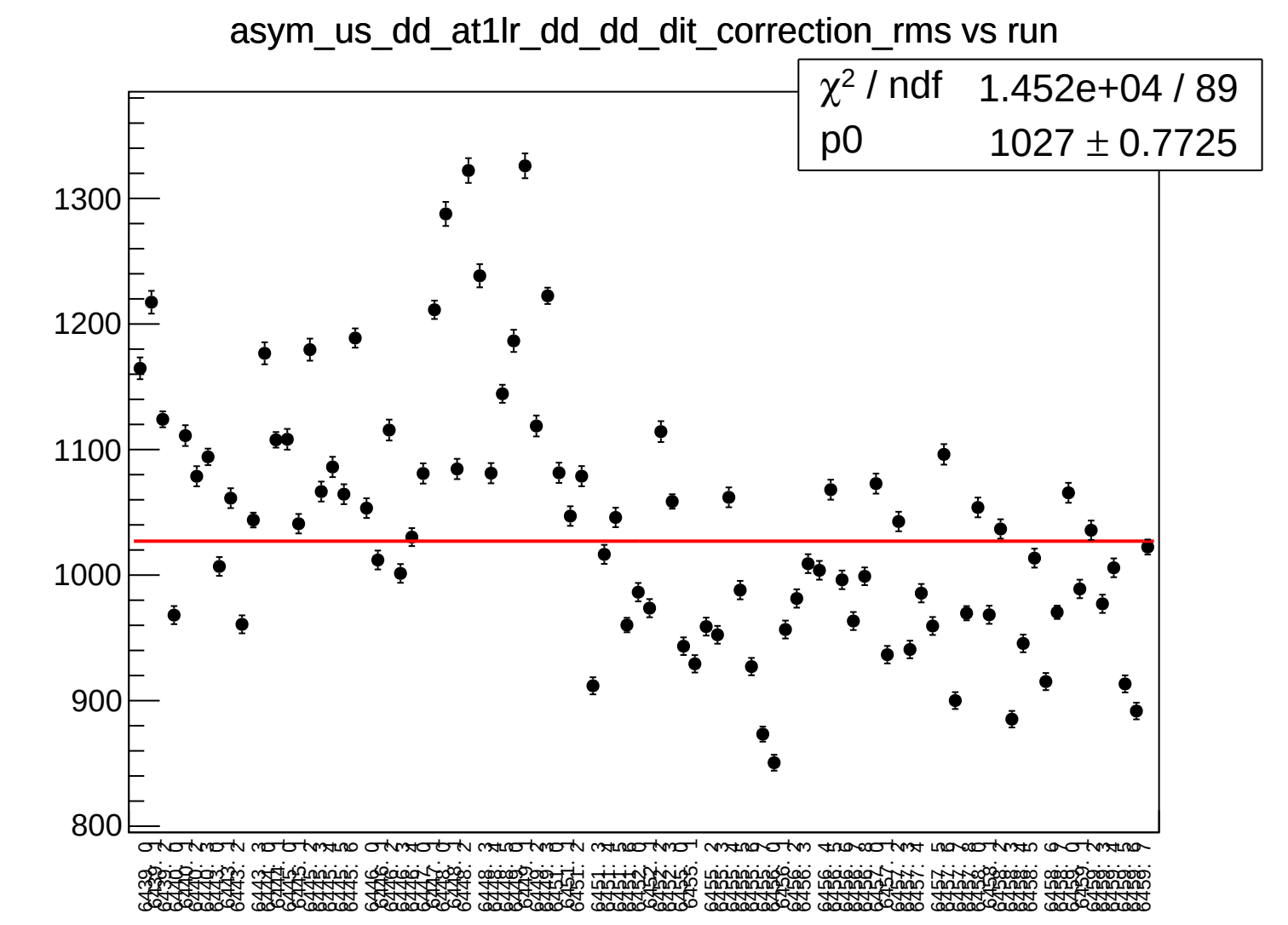

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.581e+04 / 89
p0 1022 ± 0.769
1300
1200
1100
1000
900
800

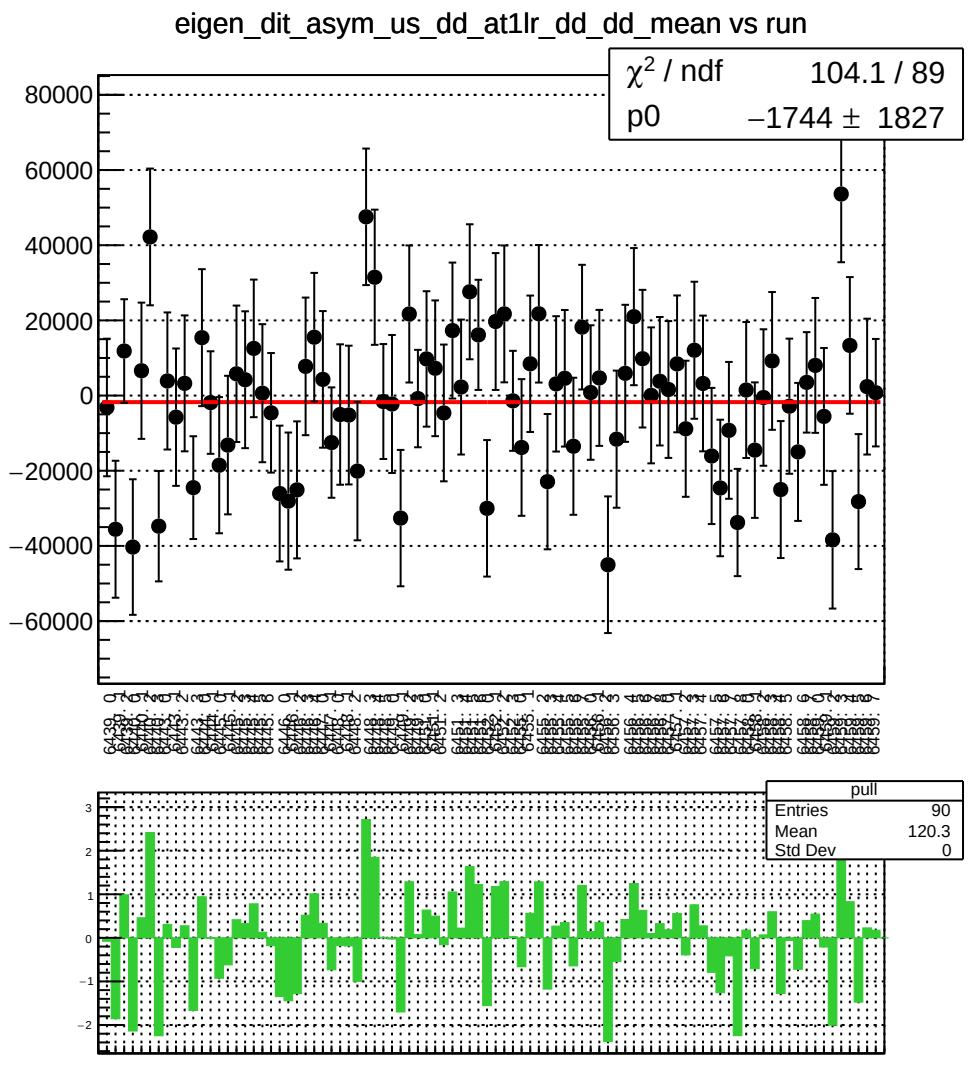

dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 104.1 / 89
p0 −1744 ± 1827
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 120.3
Std Dev 0
3
2
1
0
−1
−2

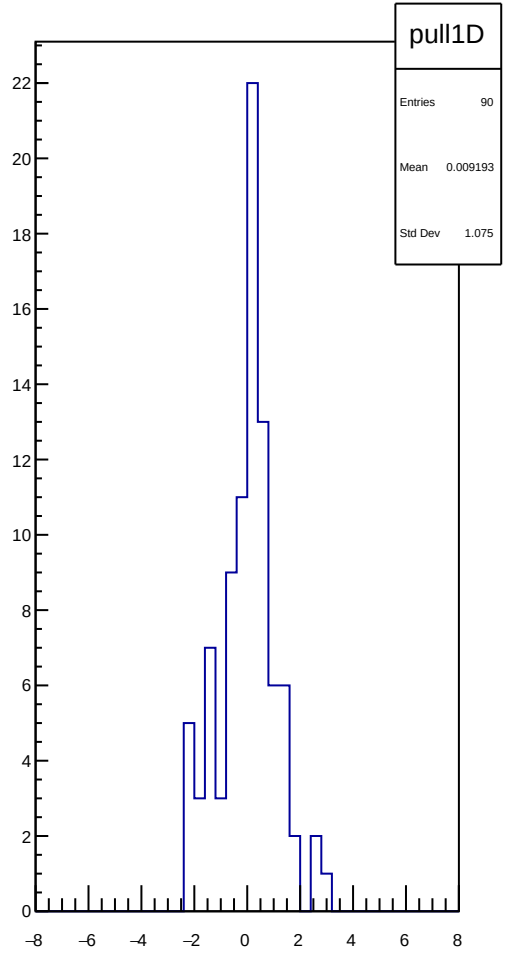

pull1D
Entries 90
Mean 0.009193
Std Dev 1.075
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

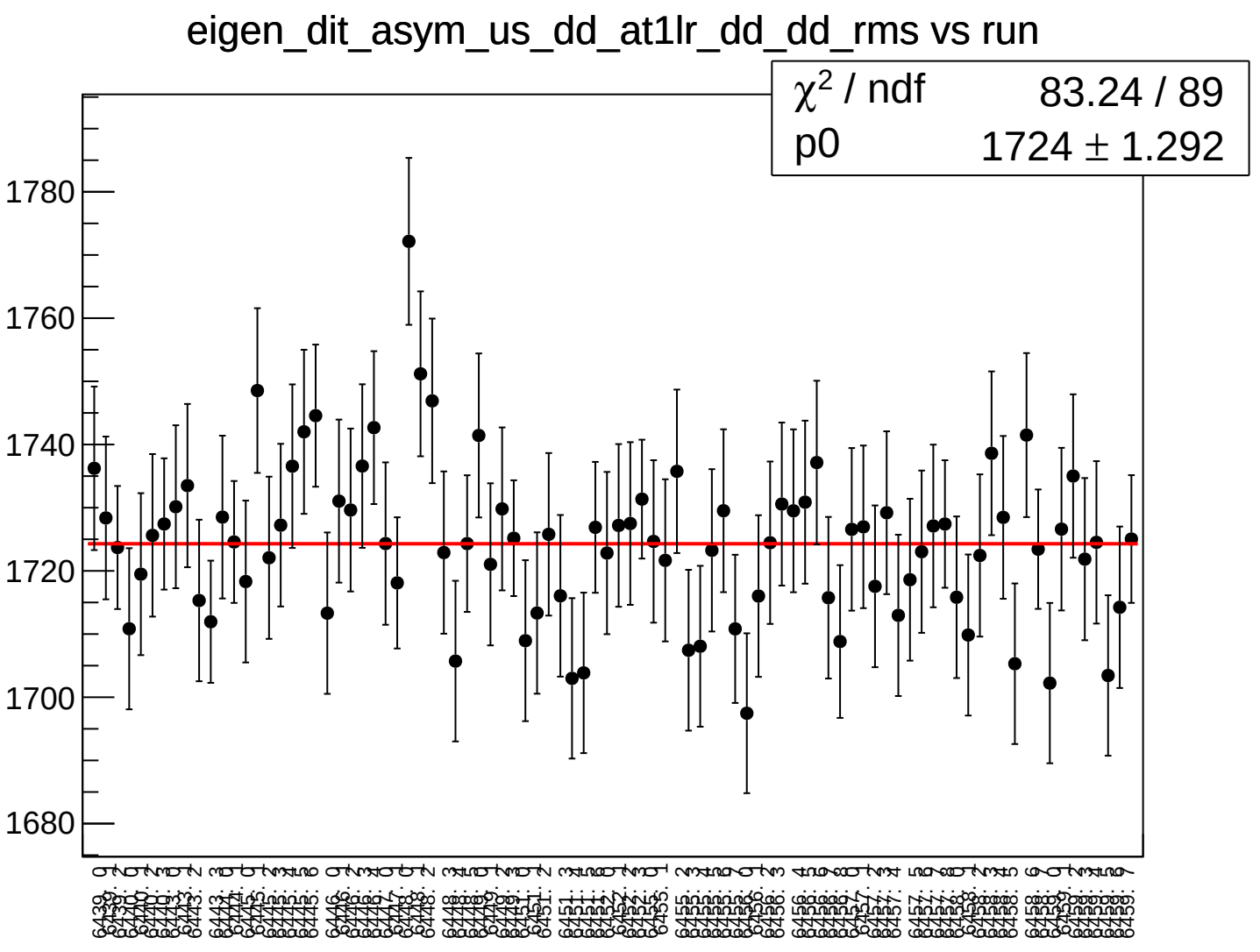

dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 83.24 / 89
p0 1724 ± 1.292
1780
1760
1740
1720
1700
1680

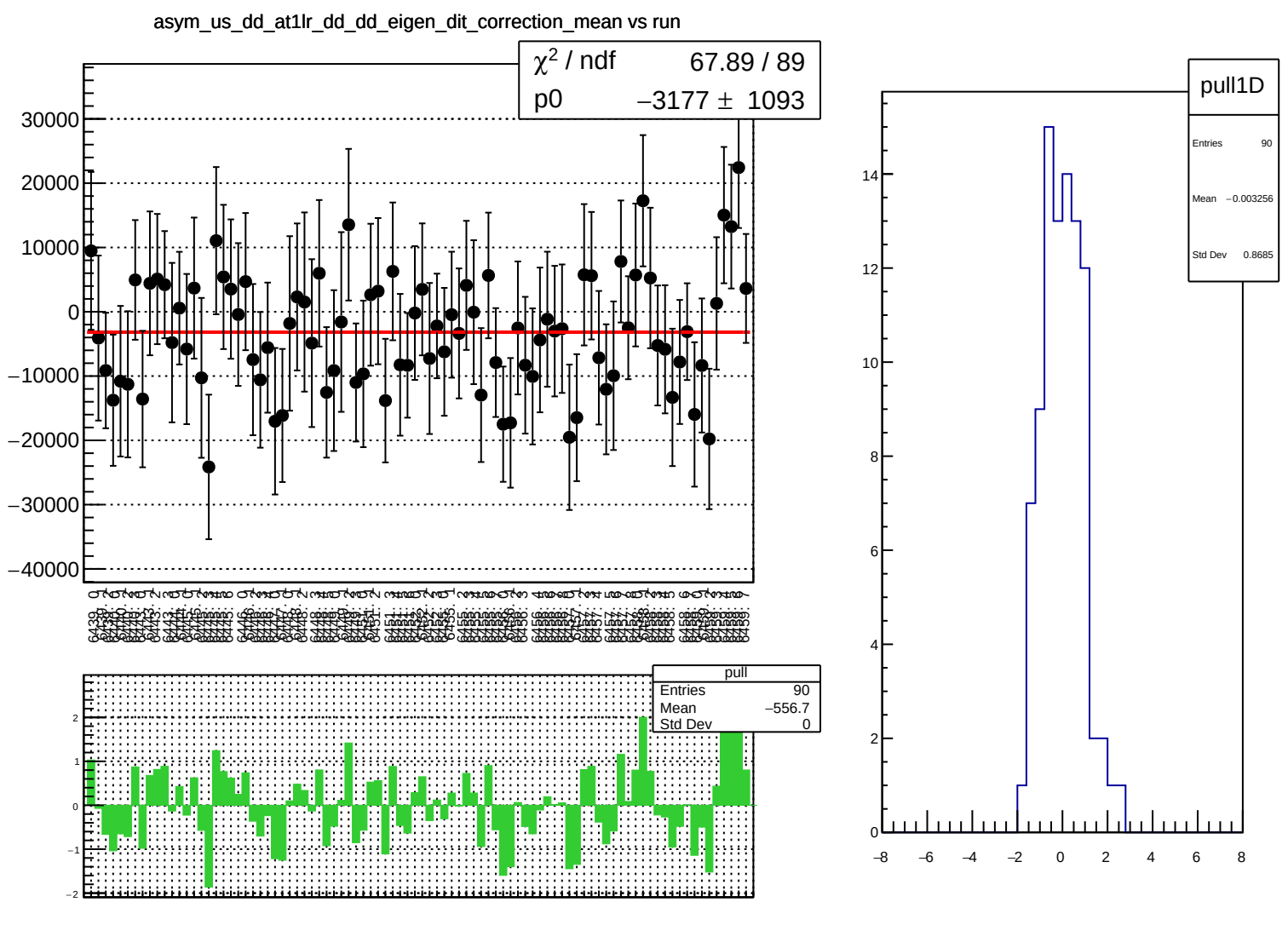

asym_us_dd_at1lr_dd_dd_dit_correction_mean vs run
χ² / ndf 67.89 / 89
p0 −3177 ± 1093
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 90
Mean −556.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.003256
Std Dev 0.8685
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

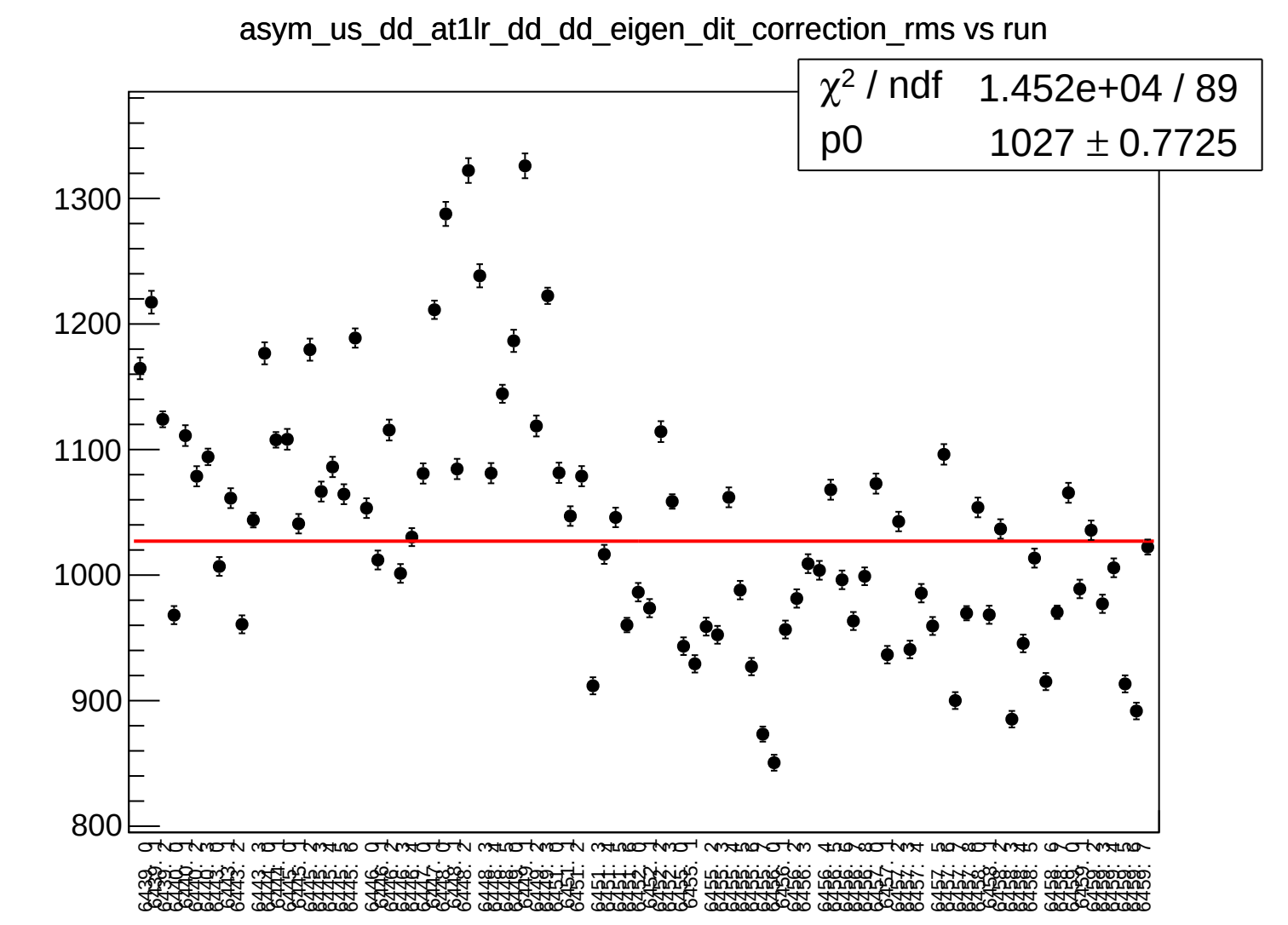

asym_us_dd_at1lr_dd_dd_dit_correction_rms vs run
χ² / ndf 1.452e+04 / 89
p0 1027 ± 0.7725
1300
1200
1100
1000
900
800

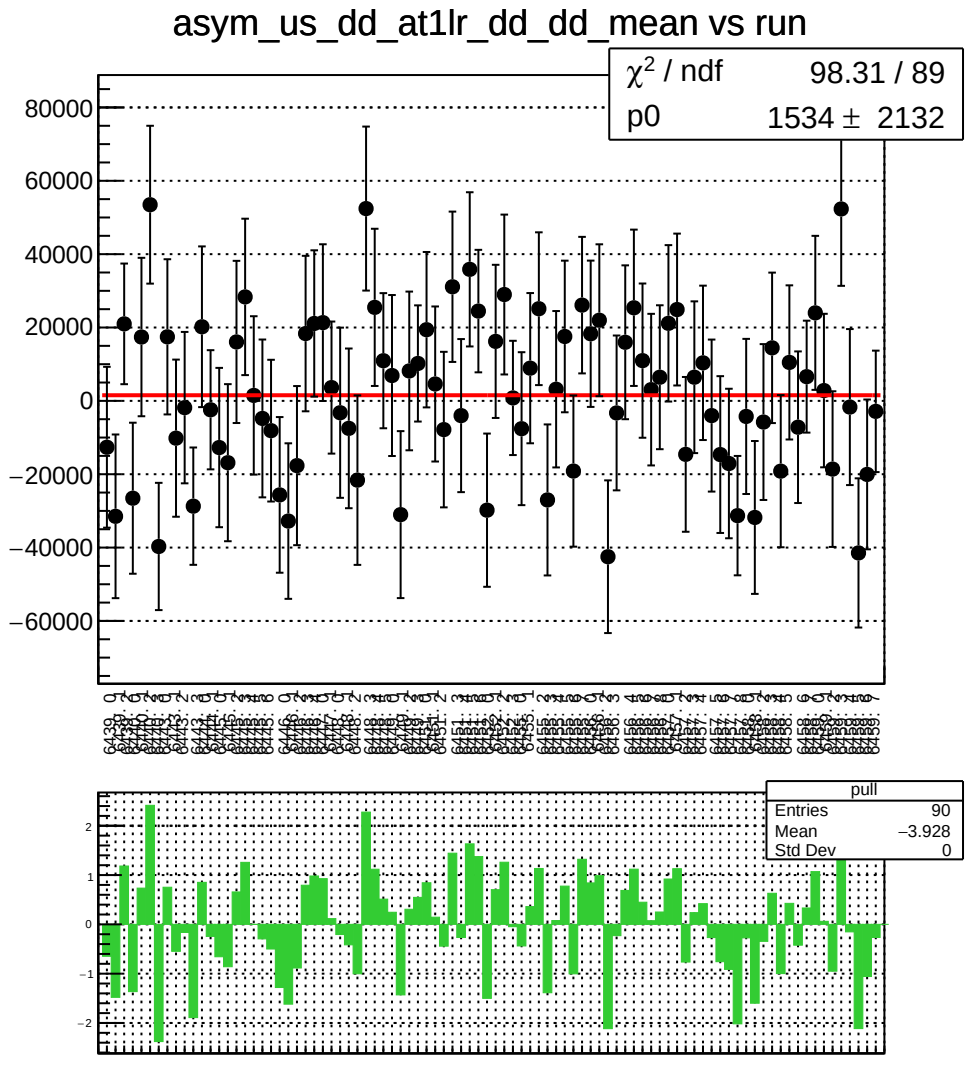

eigen_dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 104.1 / 89
p0 −1744 ± 1827
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 120.3
Std Dev 0
3
2
1
0
−1
−2

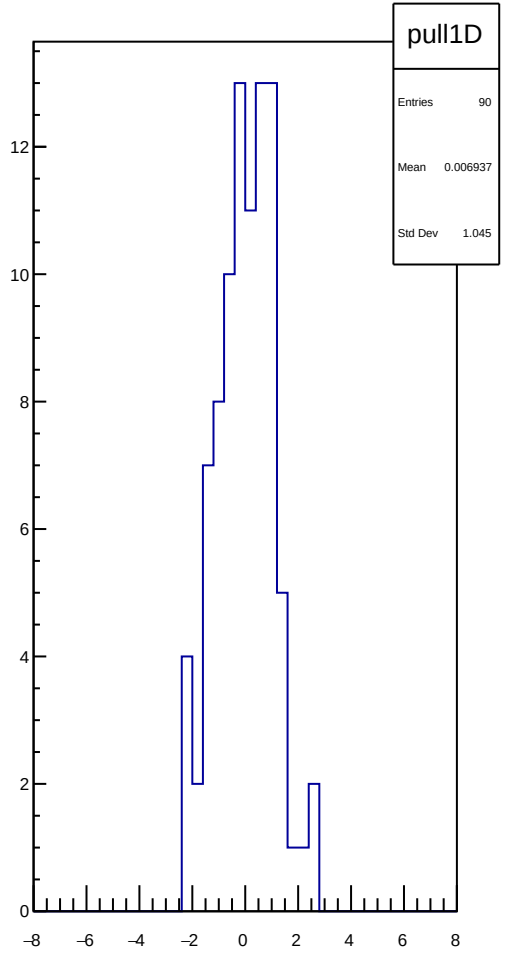

pull1D
Entries 90
Mean 0.009193
Std Dev 1.075
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

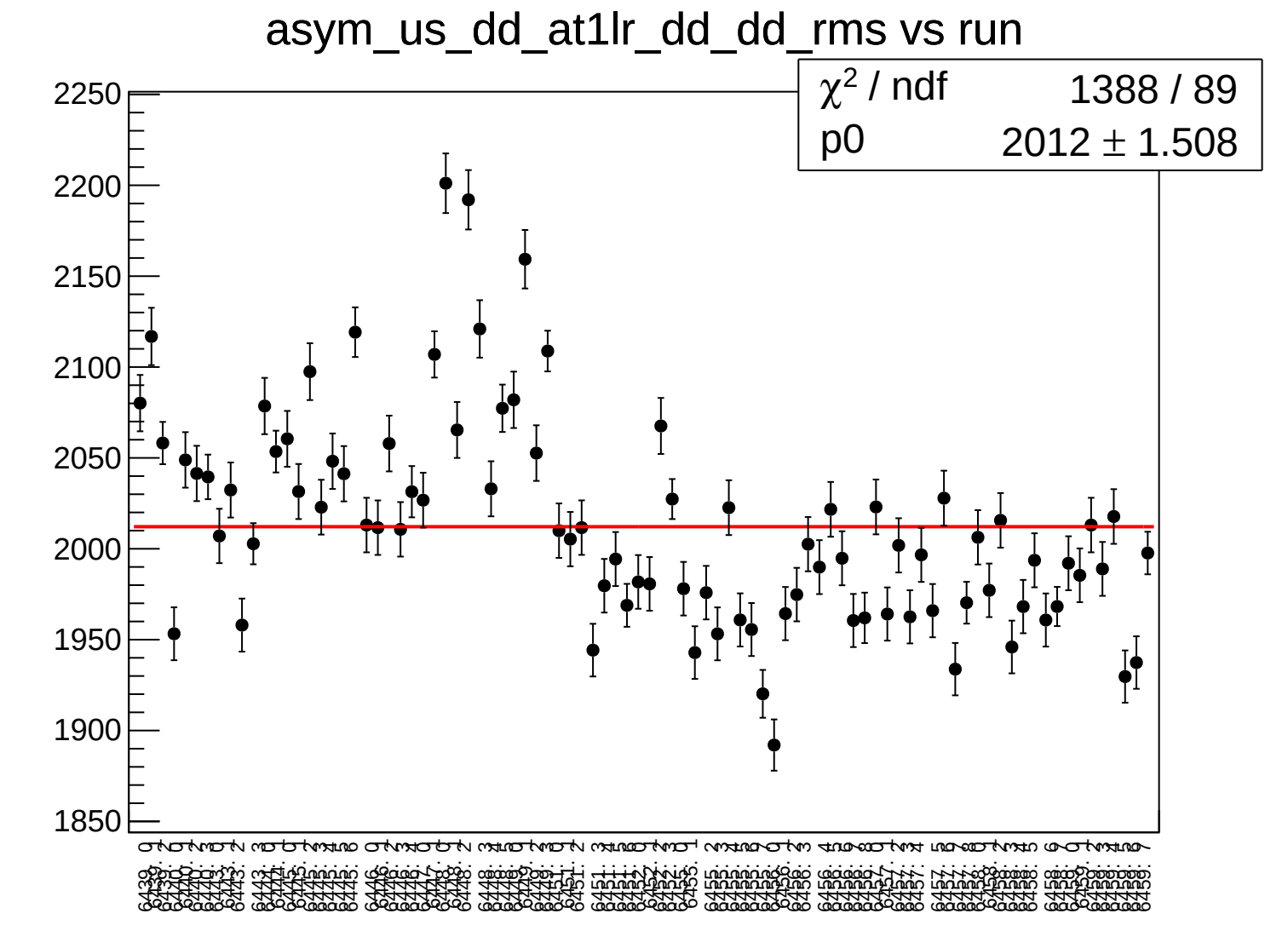

eigen_dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 83.24 / 89
p0 1724 ± 1.292
1780
1760
1740
1720
1700
1680

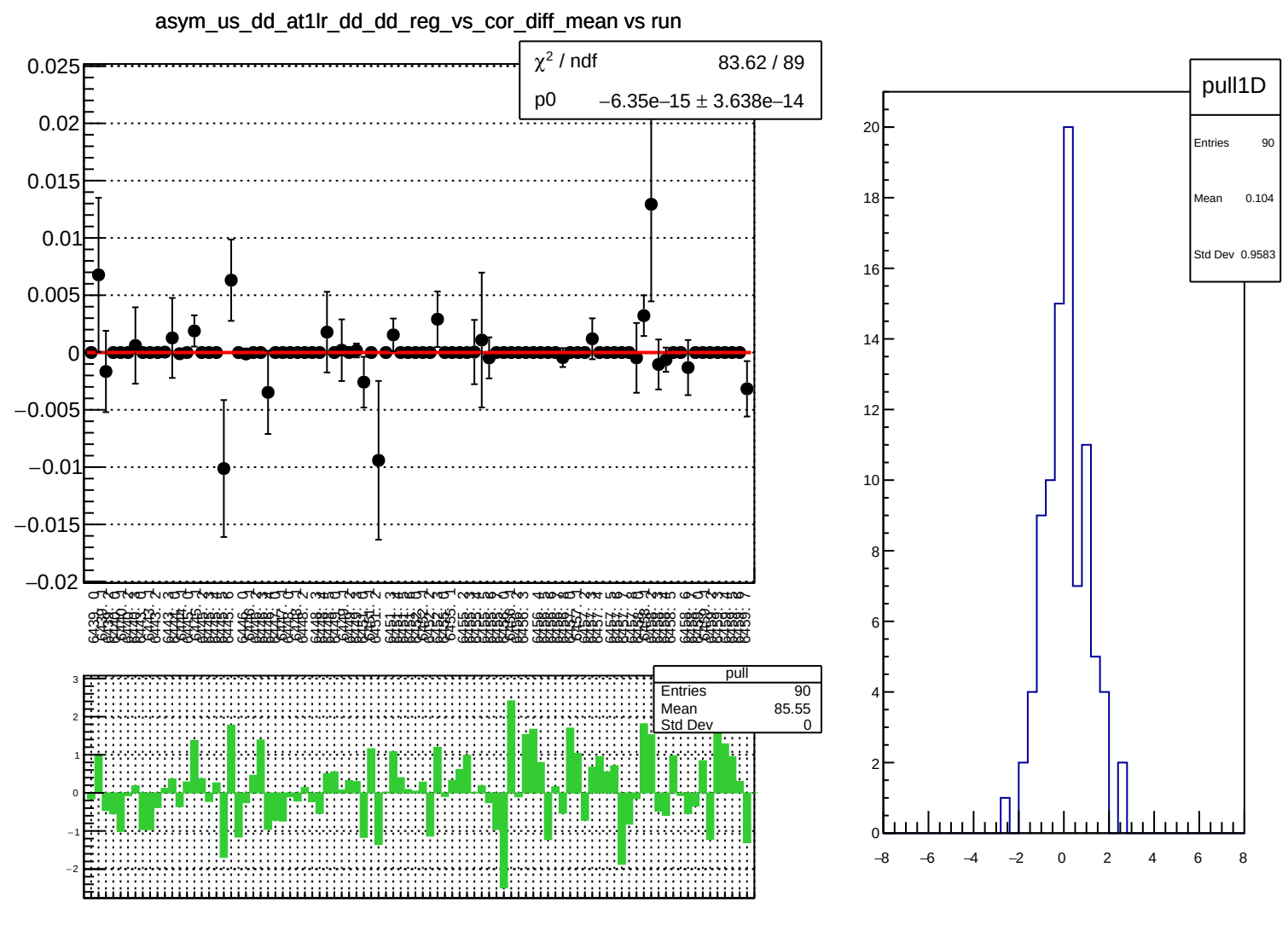

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 67.89 / 89
p0 −3177 ± 1093
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 90
Mean −556.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.003256
Std Dev 0.8685
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

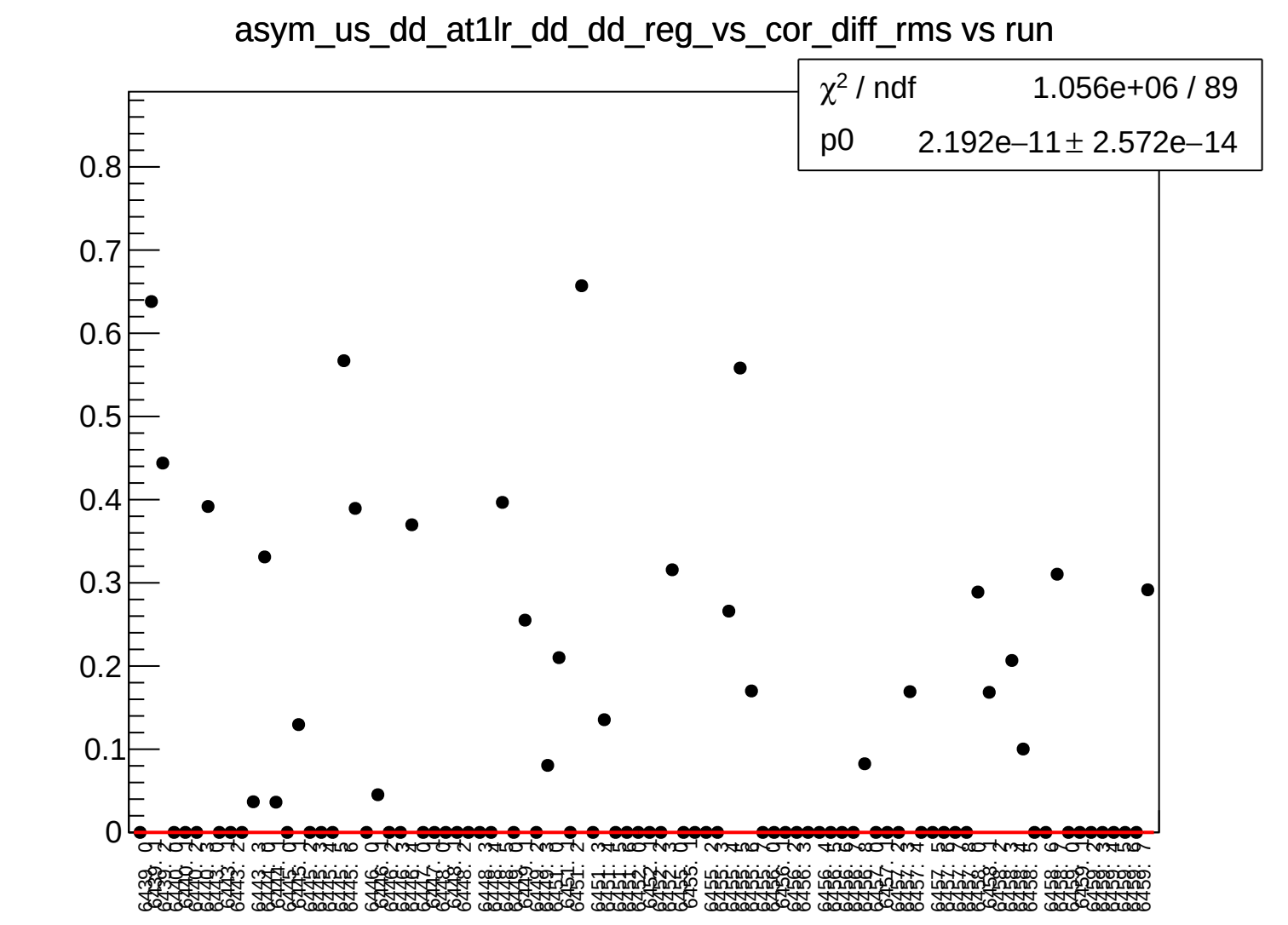

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.452e+04 / 89
p0 1027 ± 0.7725
1300
1200
1100
1000
900
800

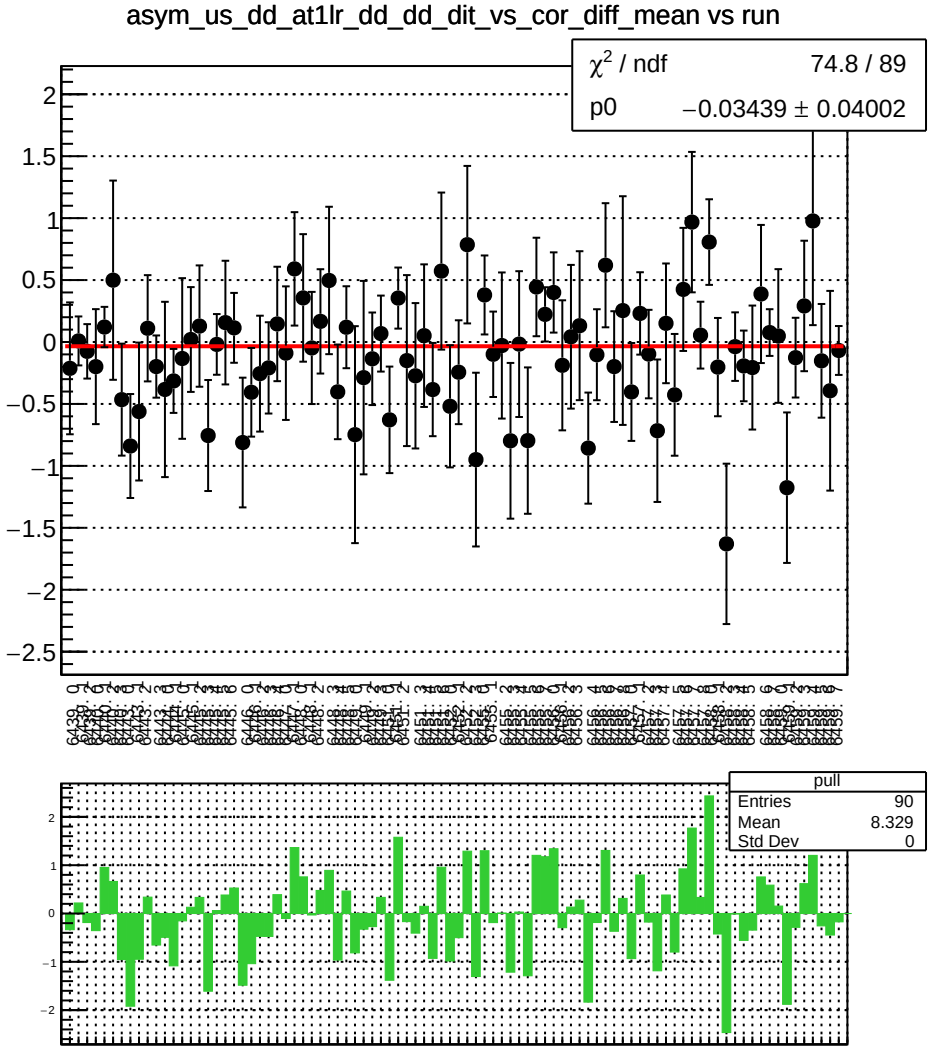

asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 98.31 / 89
p0 1534 ± 2132
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −3.928
Std Dev 0
2
1
0
−1
−2

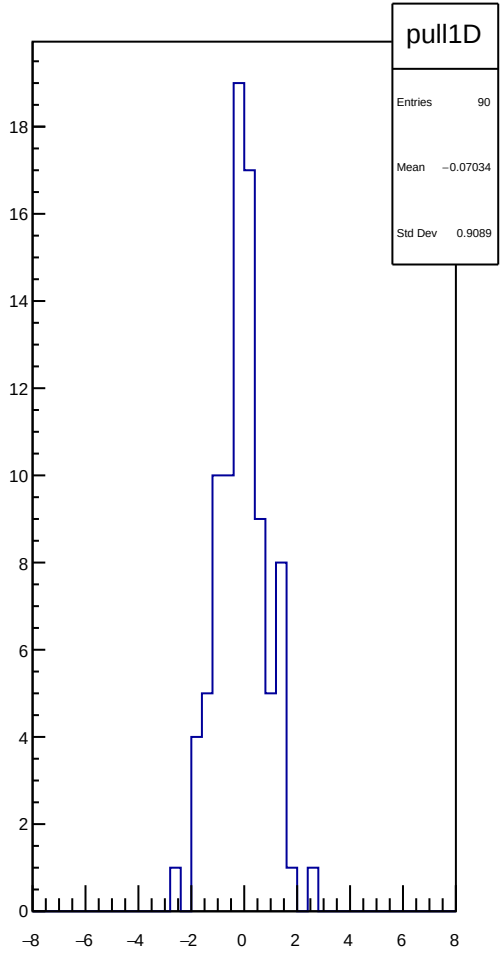

pull1D
Entries 90
Mean 0.006937
Std Dev 1.045
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

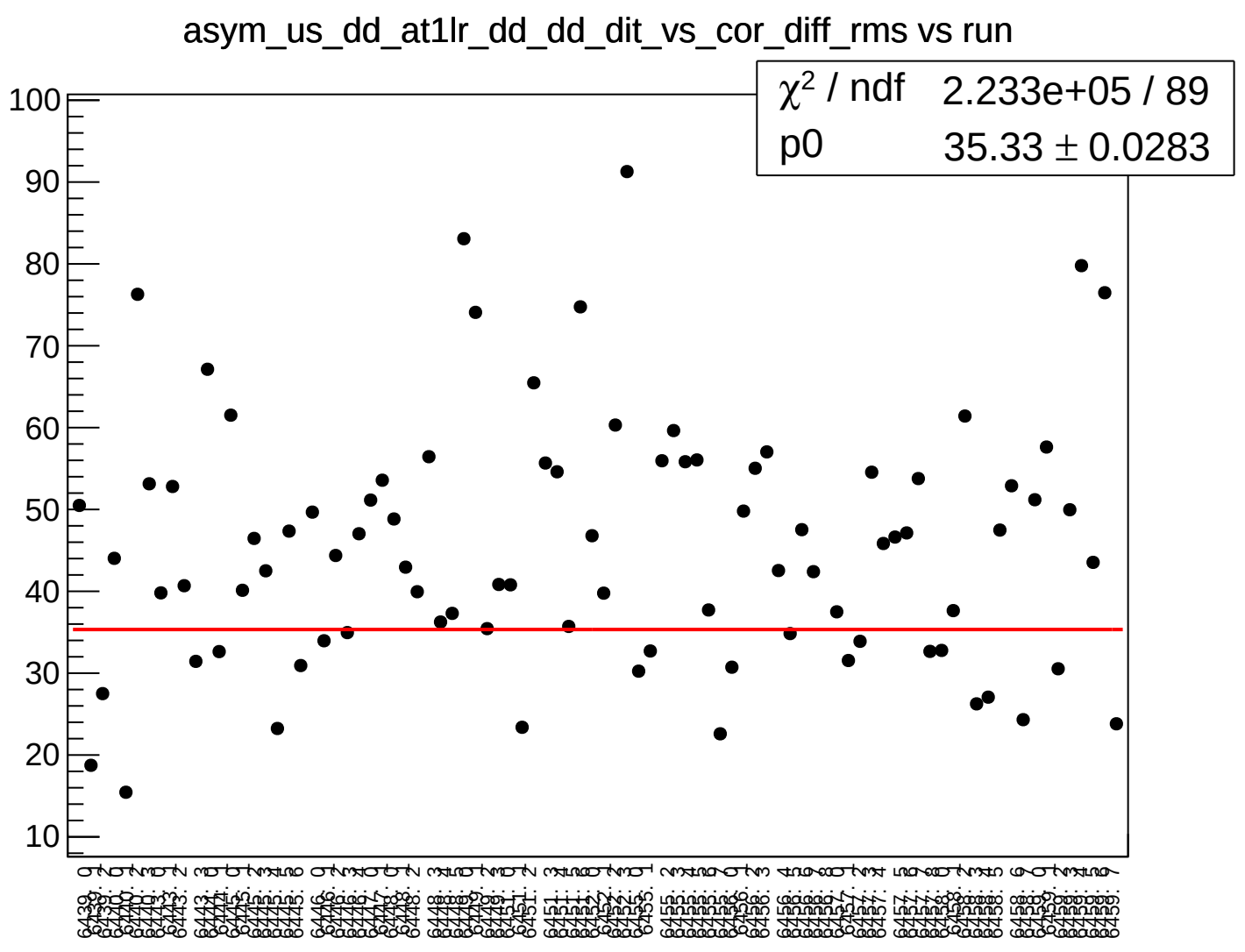

asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 1388 / 89
p0 2012 ± 1.508
2250
2200
2150
2100
2050
2000
1950
1900
1850

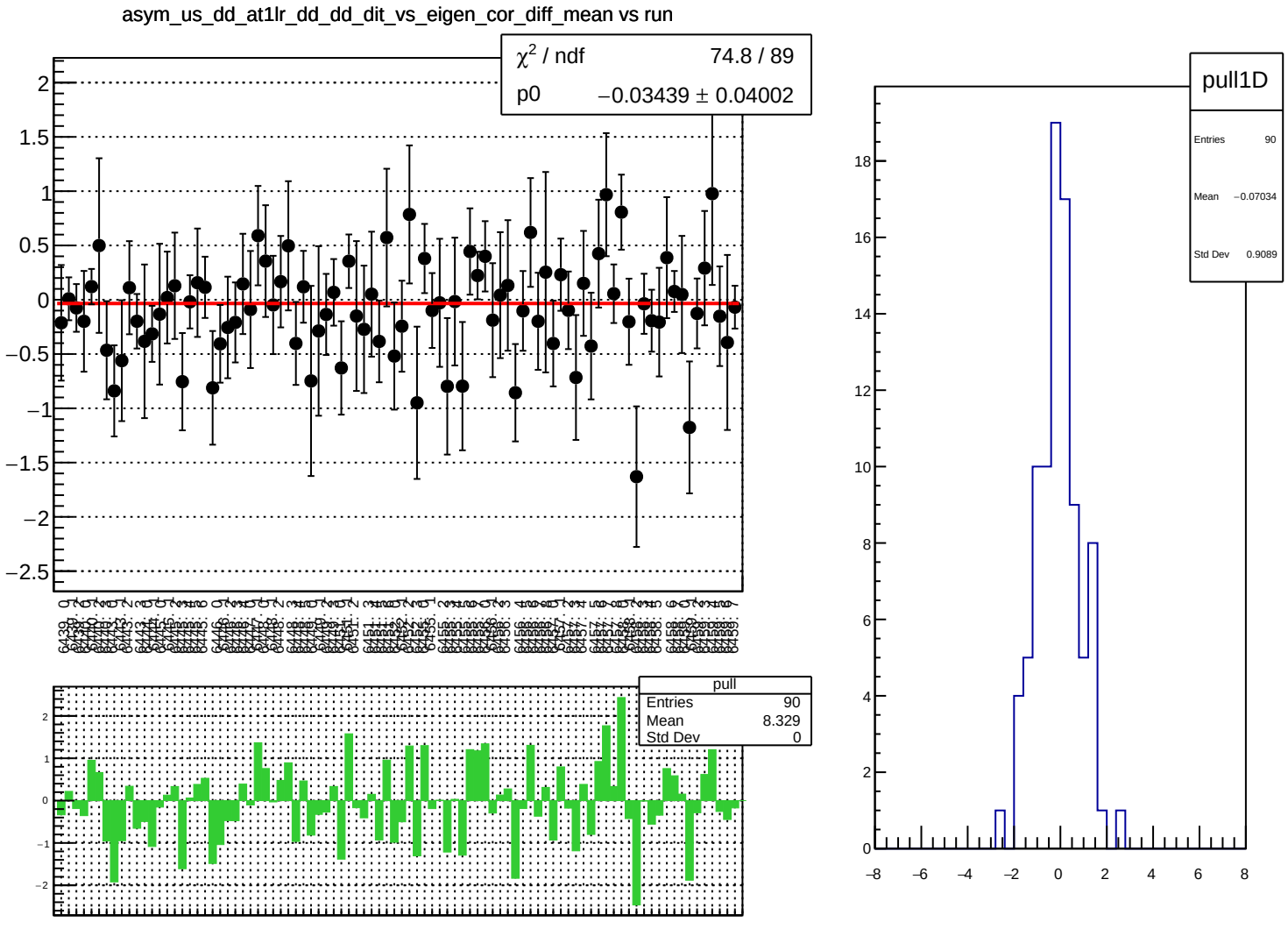

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 83.62 / 89
p0 −6.35e−15 ± 3.638e−14
pull
Entries 90
Mean 85.55
Std Dev 0
pull1D
Entries 90
Mean 0.104
Std Dev 0.9583

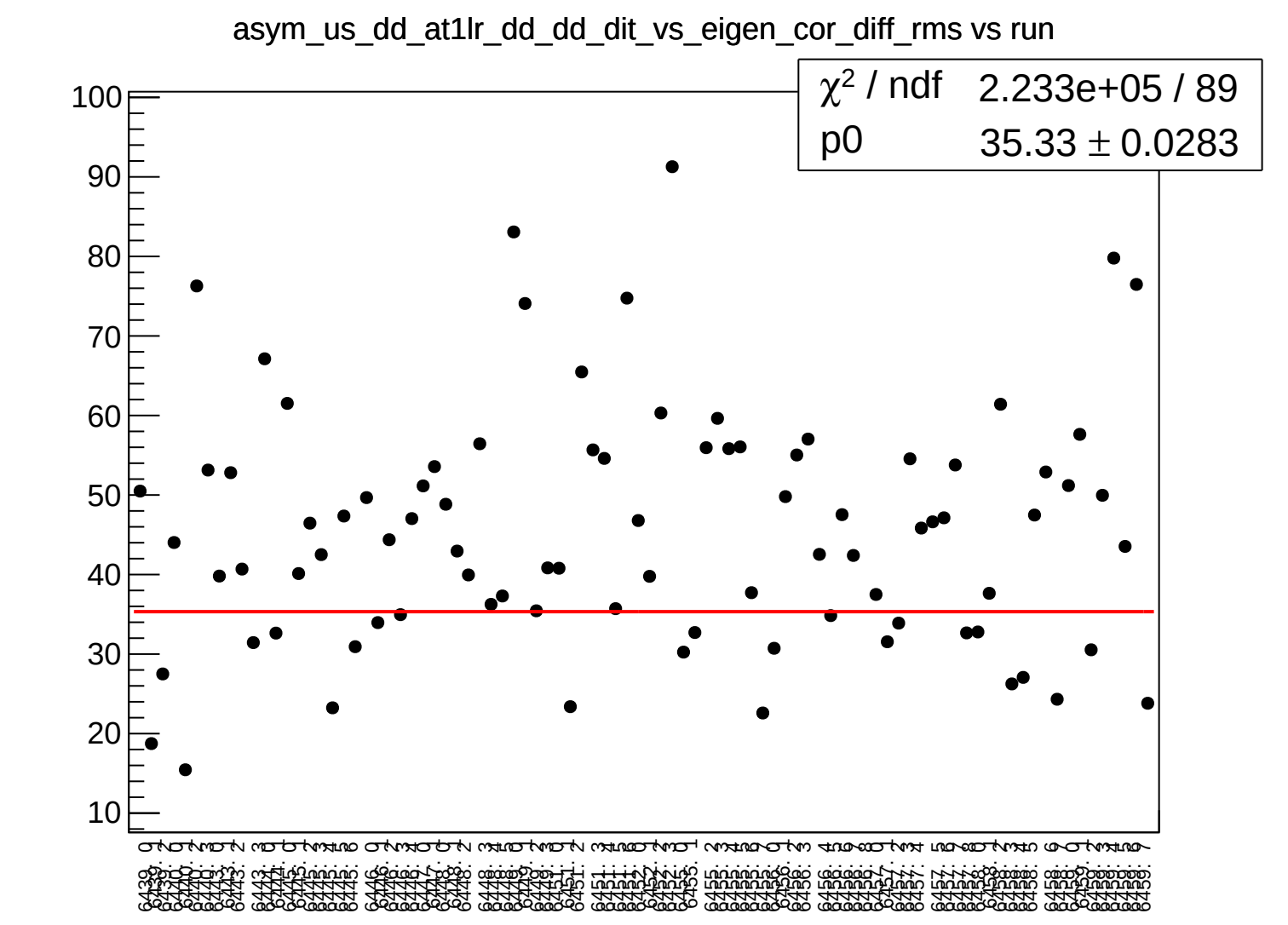

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.056e+06 / 89
p0 2.192e−11 ± 2.572e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

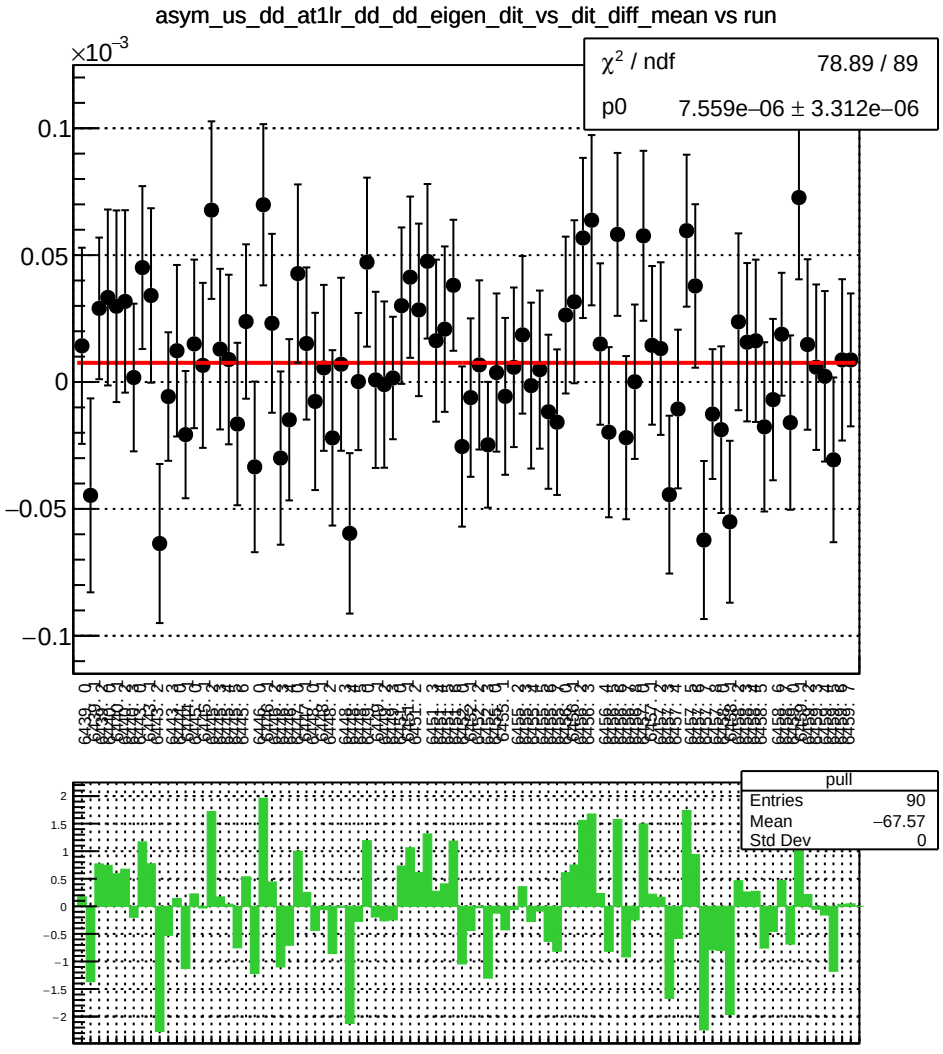

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 74.8 / 89
p0 −0.03439 ± 0.04002
pull
Entries 90
Mean 8.329
Std Dev 0

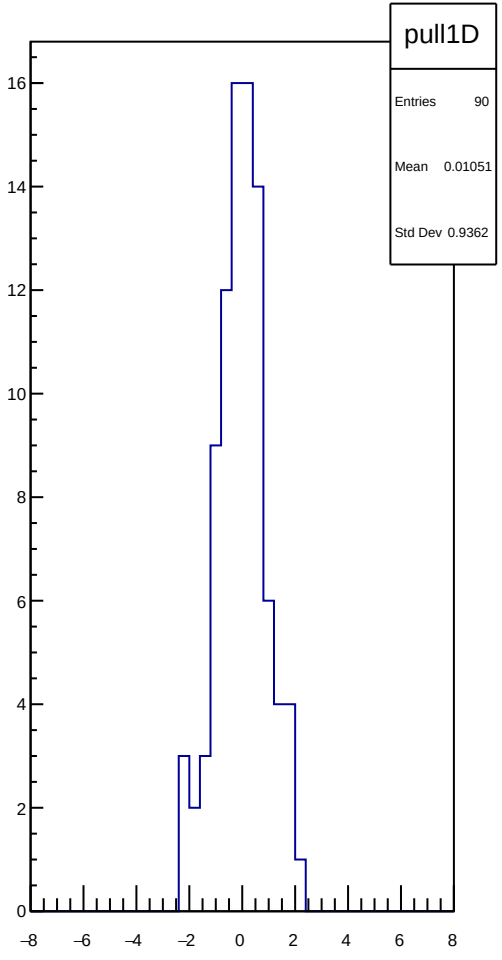

pull1D
Entries 90
Mean −0.07034
Std Dev 0.9089

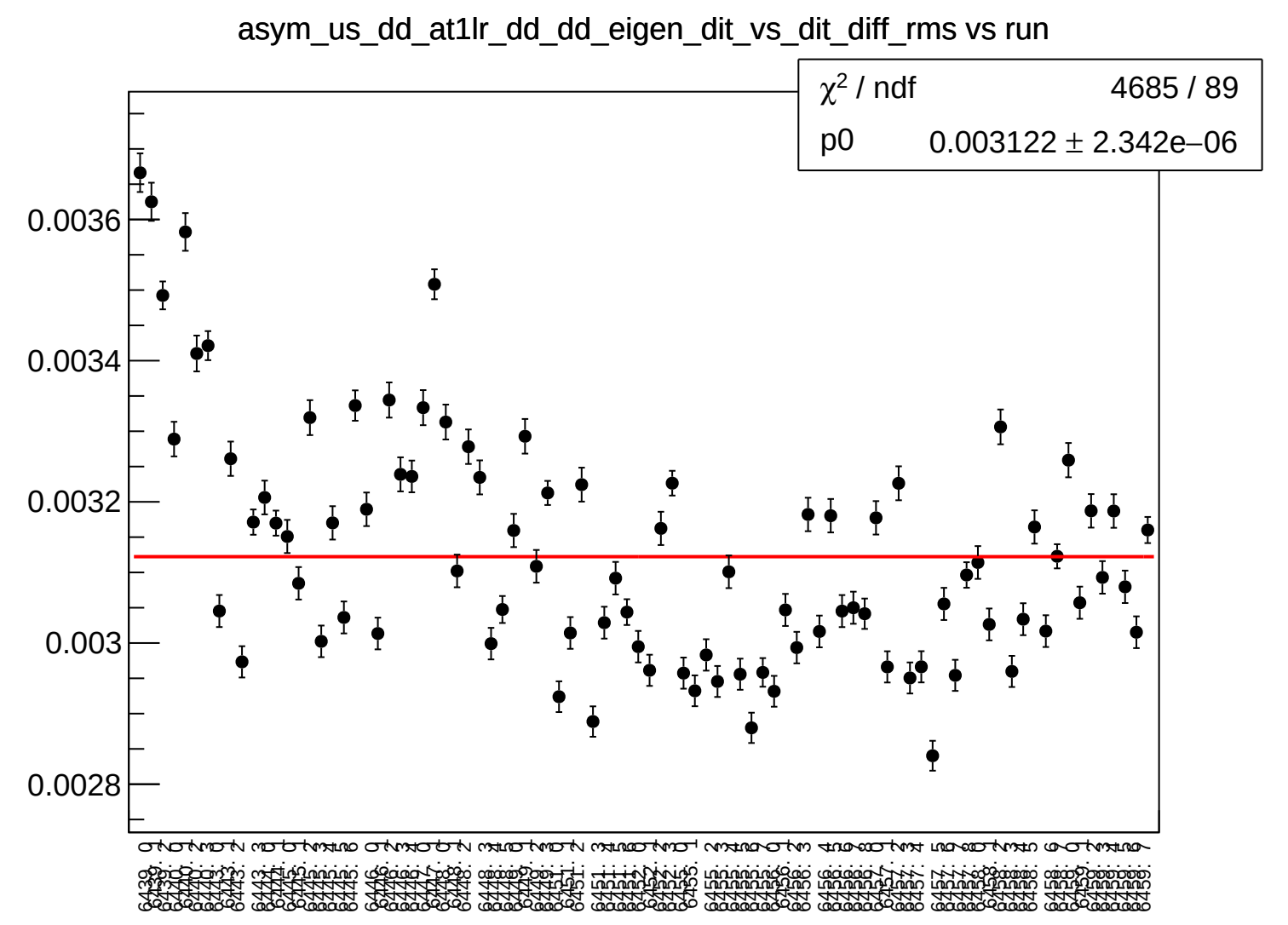

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.233e+05 / 89
p0 35.33 ± 0.0283
100
90
80
70
60
50
40
30
20
10

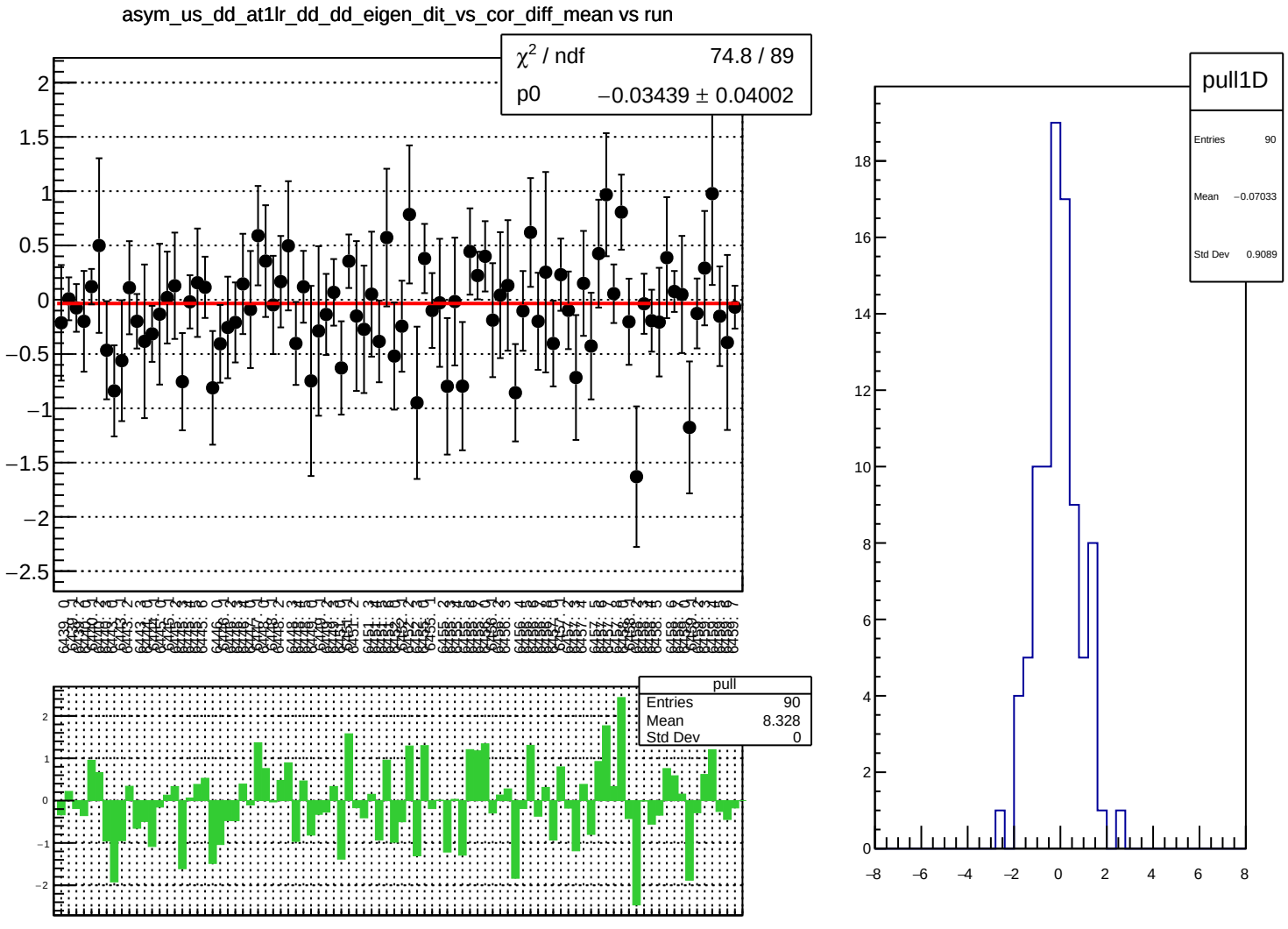

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.8 / 89
p0 −0.03439 ± 0.04002
pull
Entries 90
Mean 8.329
Std Dev 0
pull1D
Entries 90
Mean −0.07034
Std Dev 0.9089

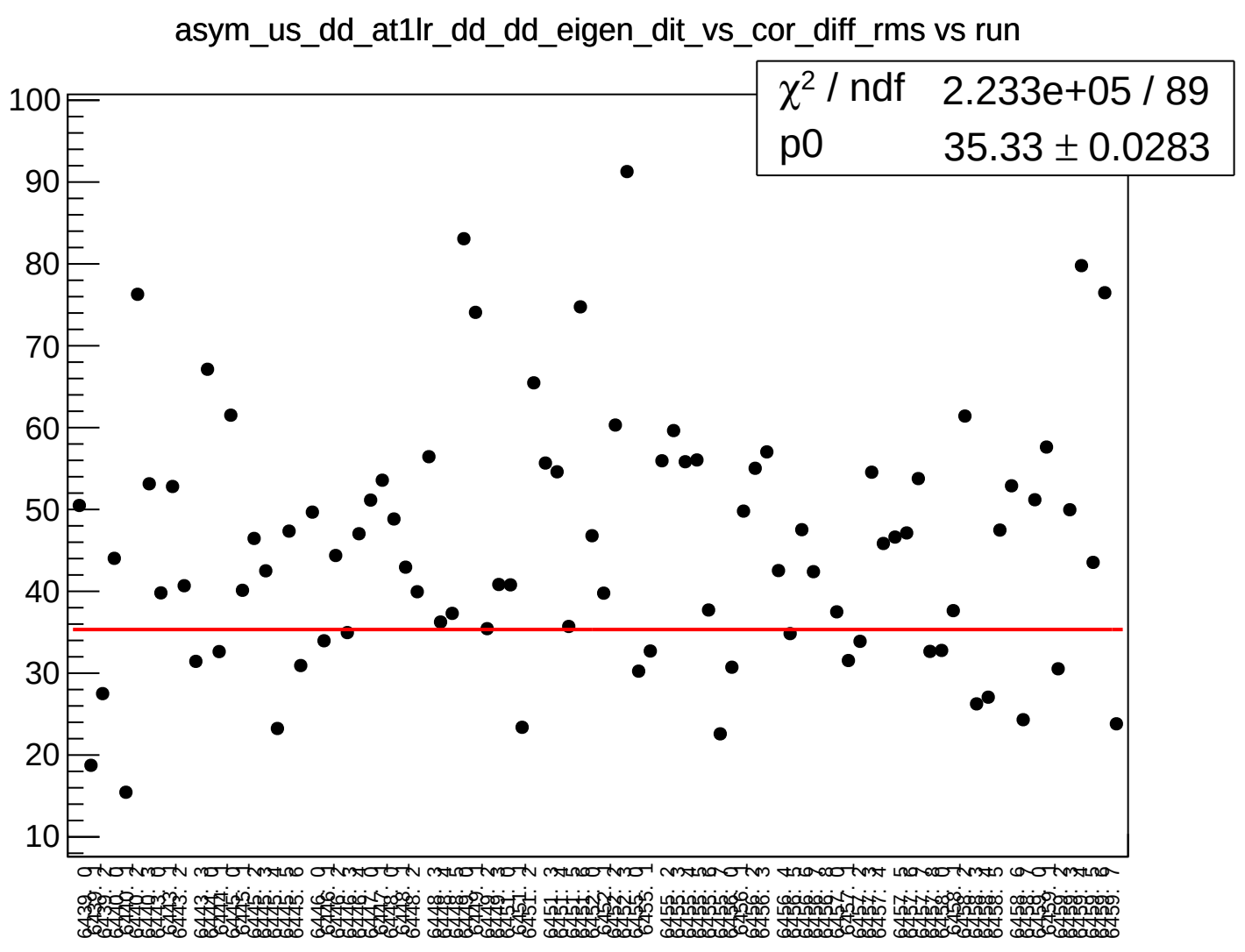

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.233e+05 / 89
p0 35.33 ± 0.0283
100
90
80
70
60
50
40
30
20
10

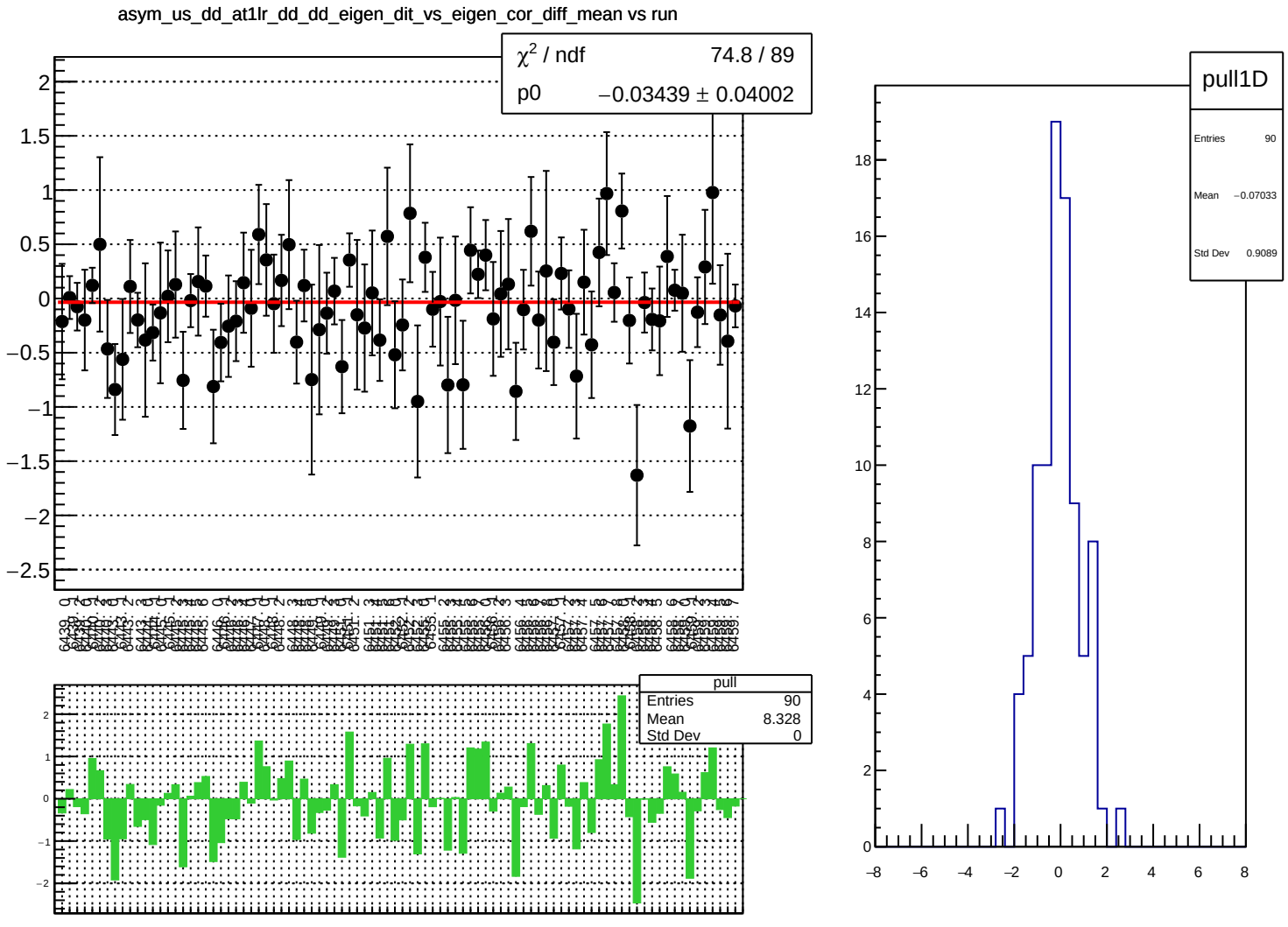

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 78.89 / 89
p0 7.559e−06 ± 3.312e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 90
Mean −67.57
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

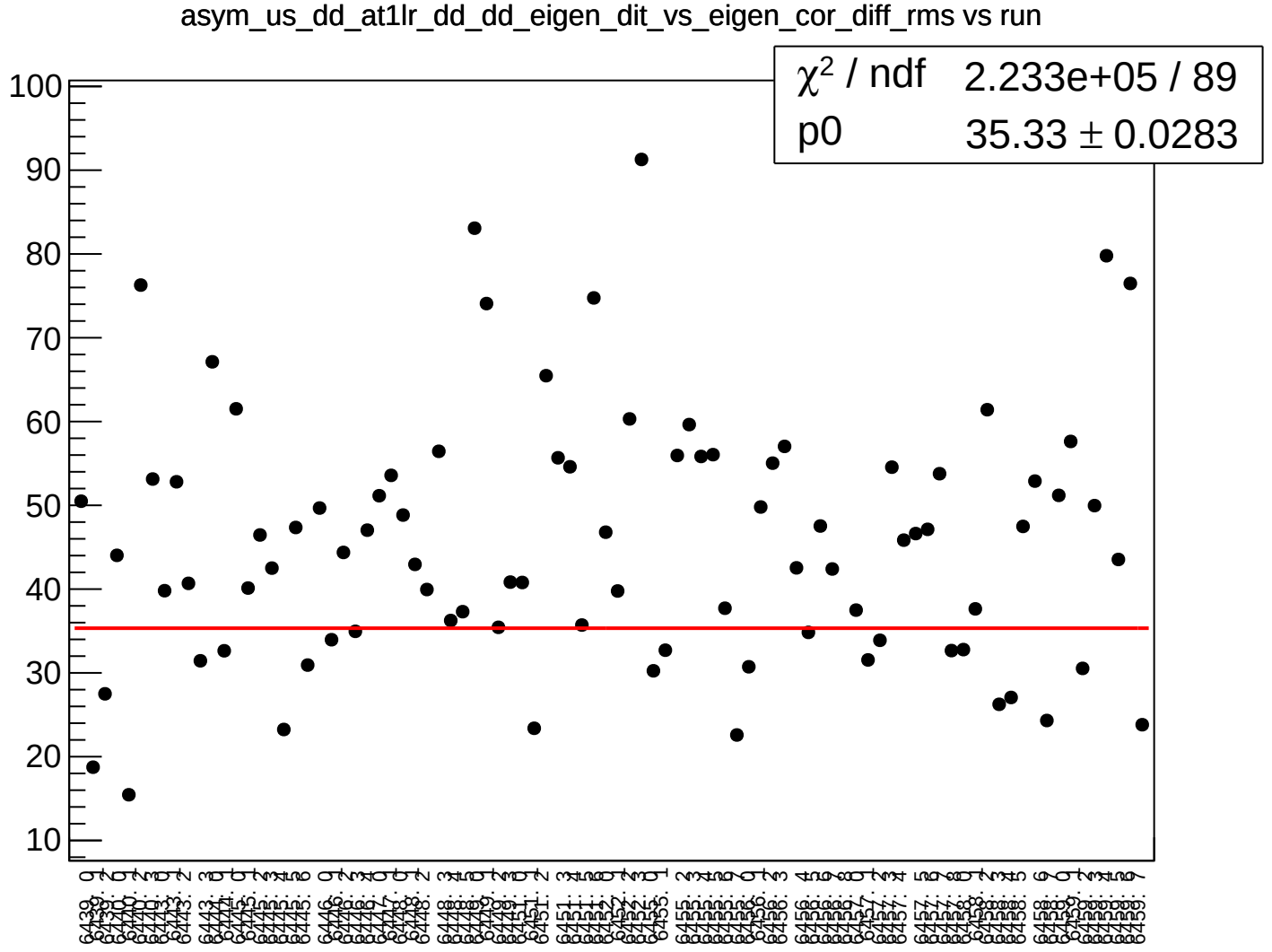

pull1D
Entries 90
Mean 0.01051
Std Dev 0.9362
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

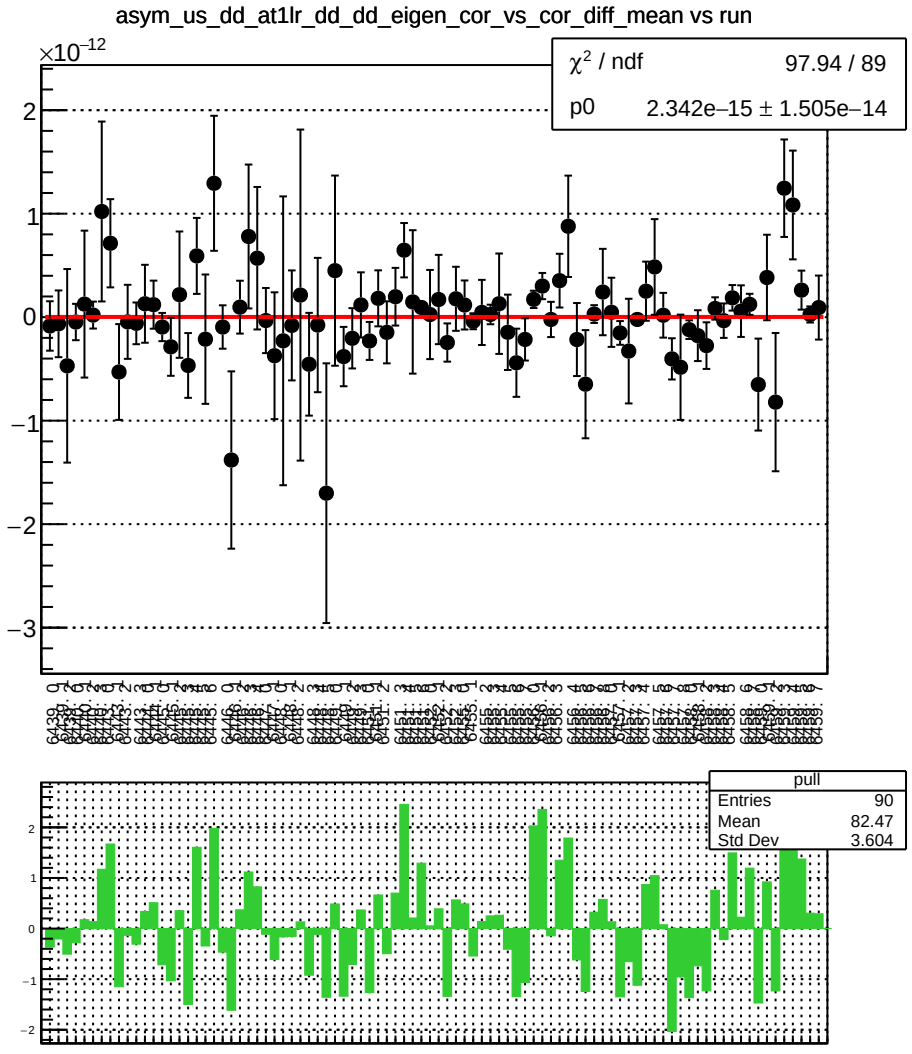

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4685 / 89
p0 0.003122 ± 2.342e−06
0.0036
0.0034
0.0032
0.003
0.0028

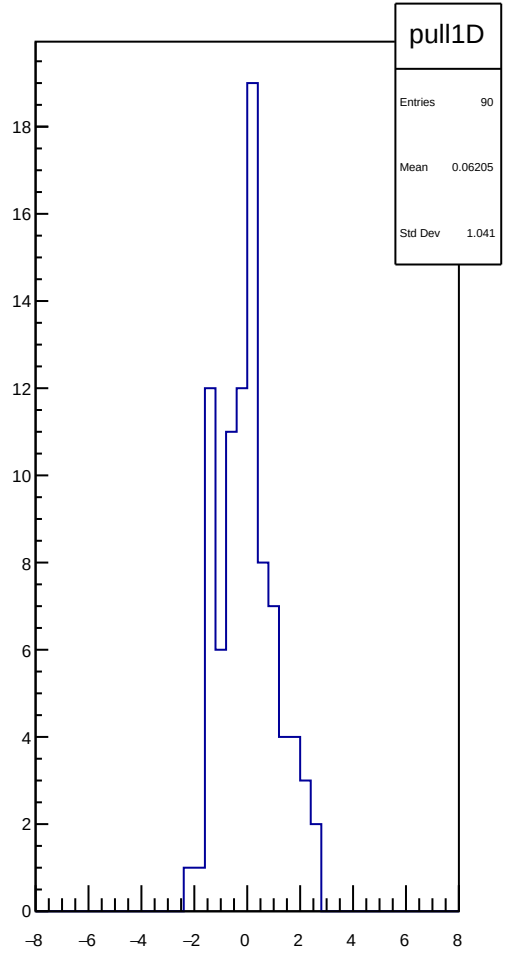

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 74.8 / 89
p0 −0.03439 ± 0.04002
pull
Entries 90
Mean 8.328
Std Dev 0
pull1D
Entries 90
Mean −0.07033
Std Dev 0.9089

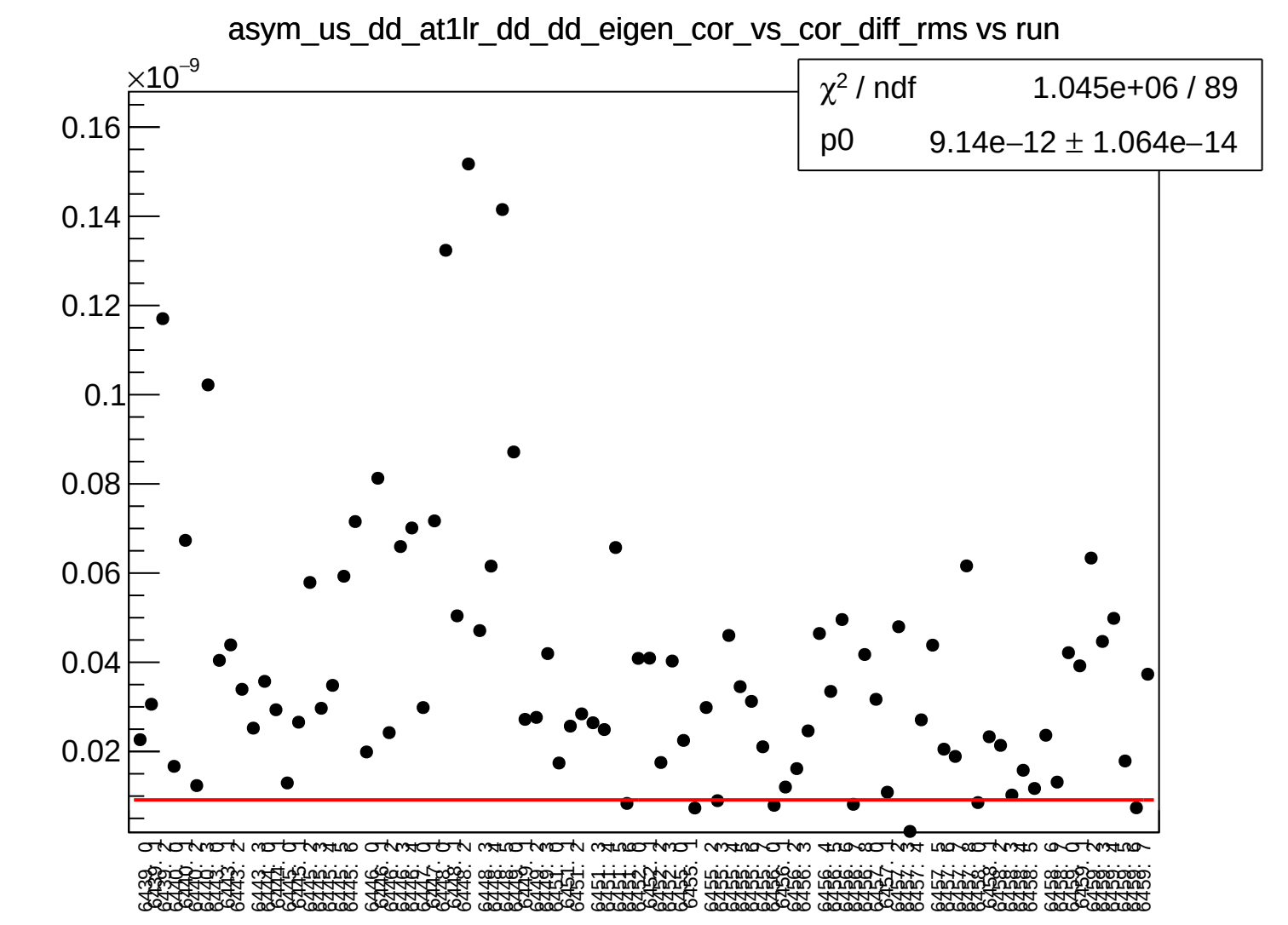

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.233e+05 / 89
p0 35.33 ± 0.0283
100
90
80
70
60
50
40
30
20
10

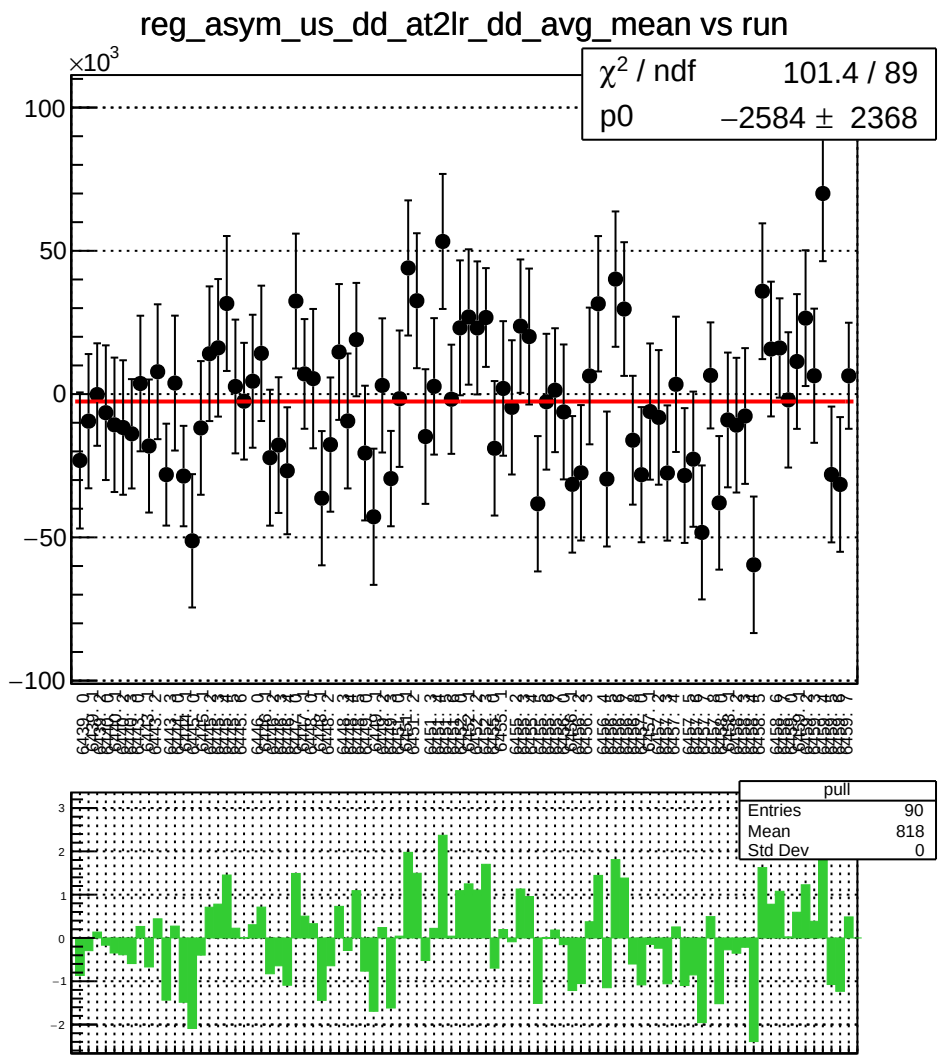

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.8 / 89
p0 −0.03439 ± 0.04002
pull
Entries 90
Mean 8.328
Std Dev 0
pull1D
Entries 90
Mean −0.07033
Std Dev 0.9089

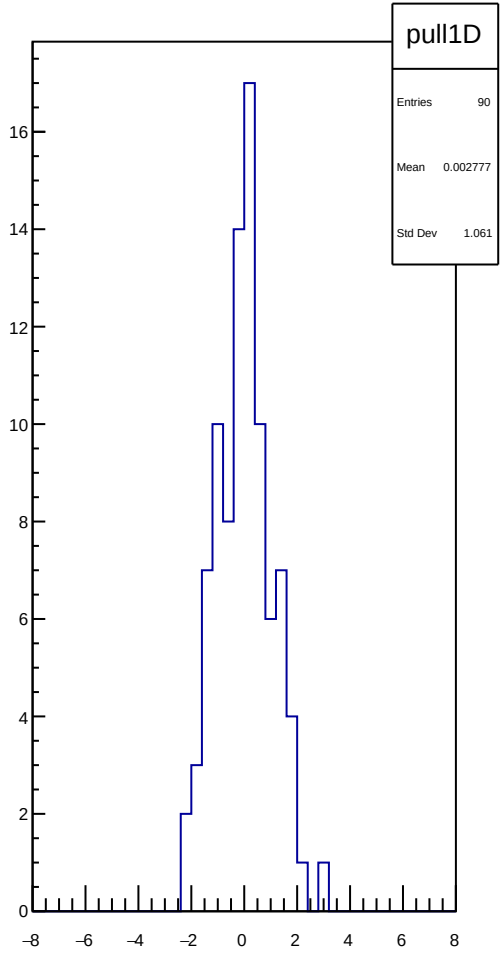

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.233e+05 / 89
p0 35.33 ± 0.0283
100
90
80
70
60
50
40
30
20
10

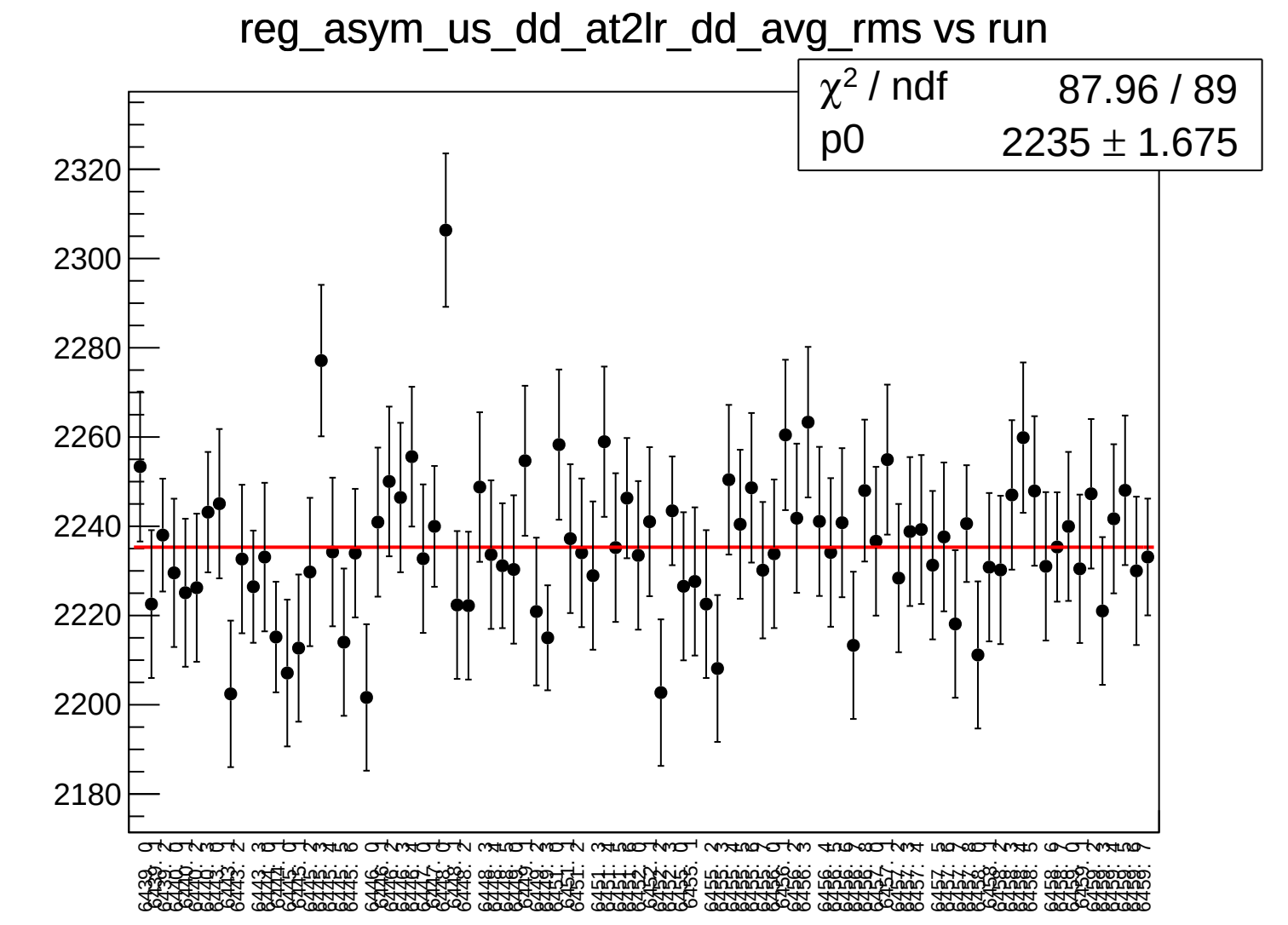

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97.94 / 89
p0 2.342e−15 ± 1.505e−14
pull
Entries 90
Mean 82.47
Std Dev 3.604

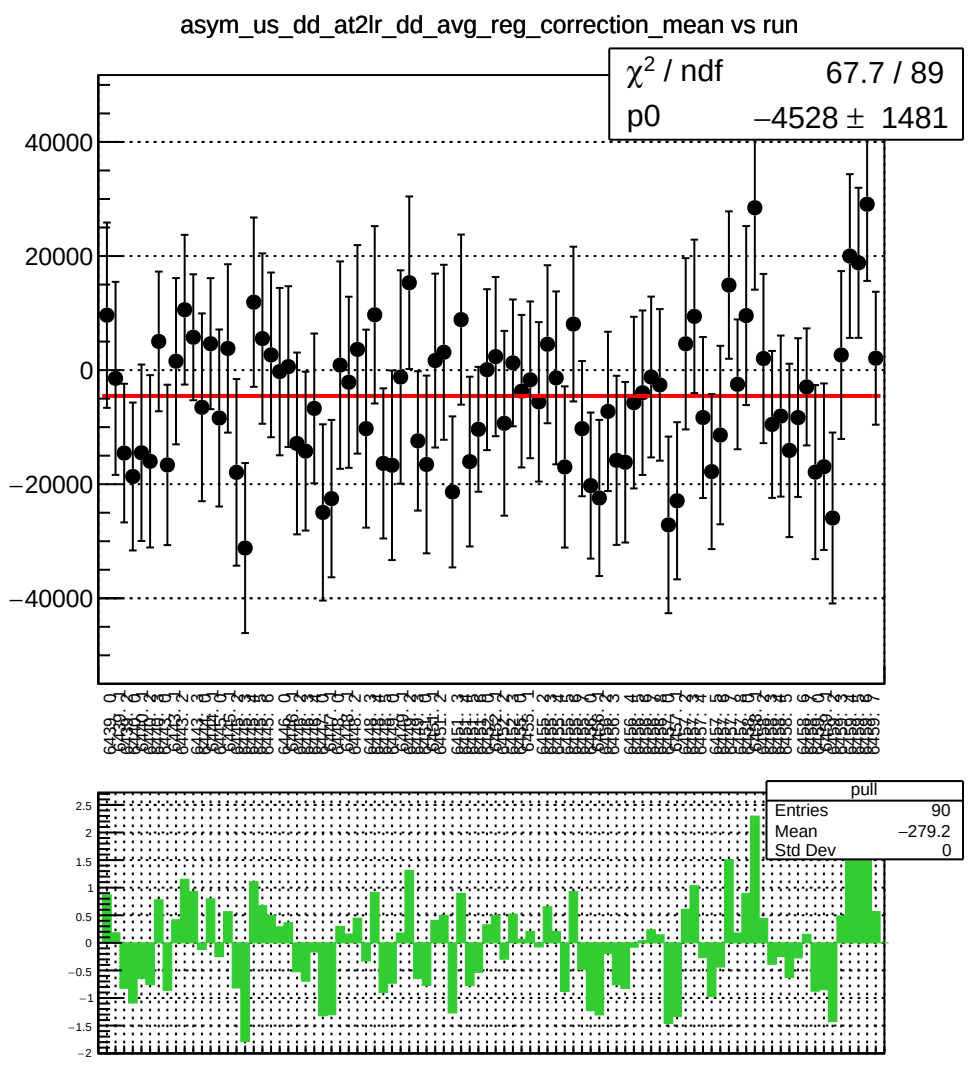

pull1D
Entries 90
Mean 0.06205
Std Dev 1.041

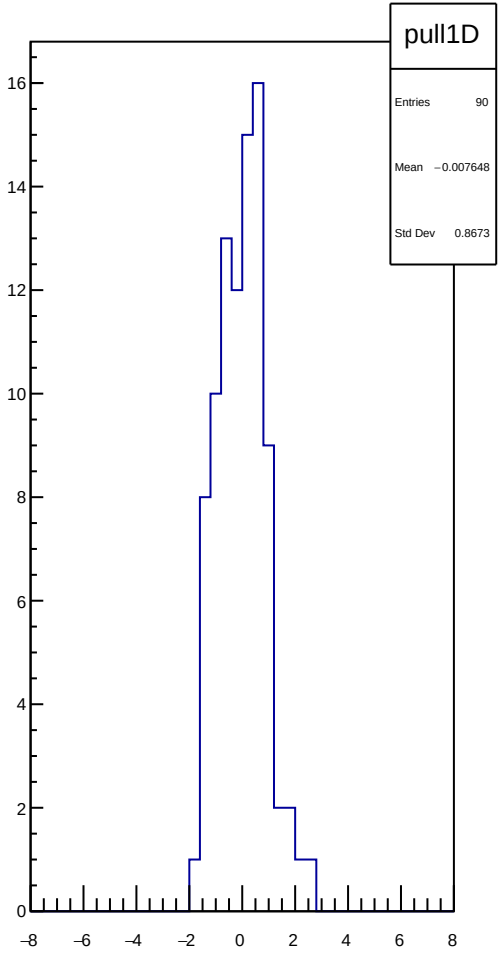

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.045e+06 / 89
p0 9.14e−12 ± 1.064e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

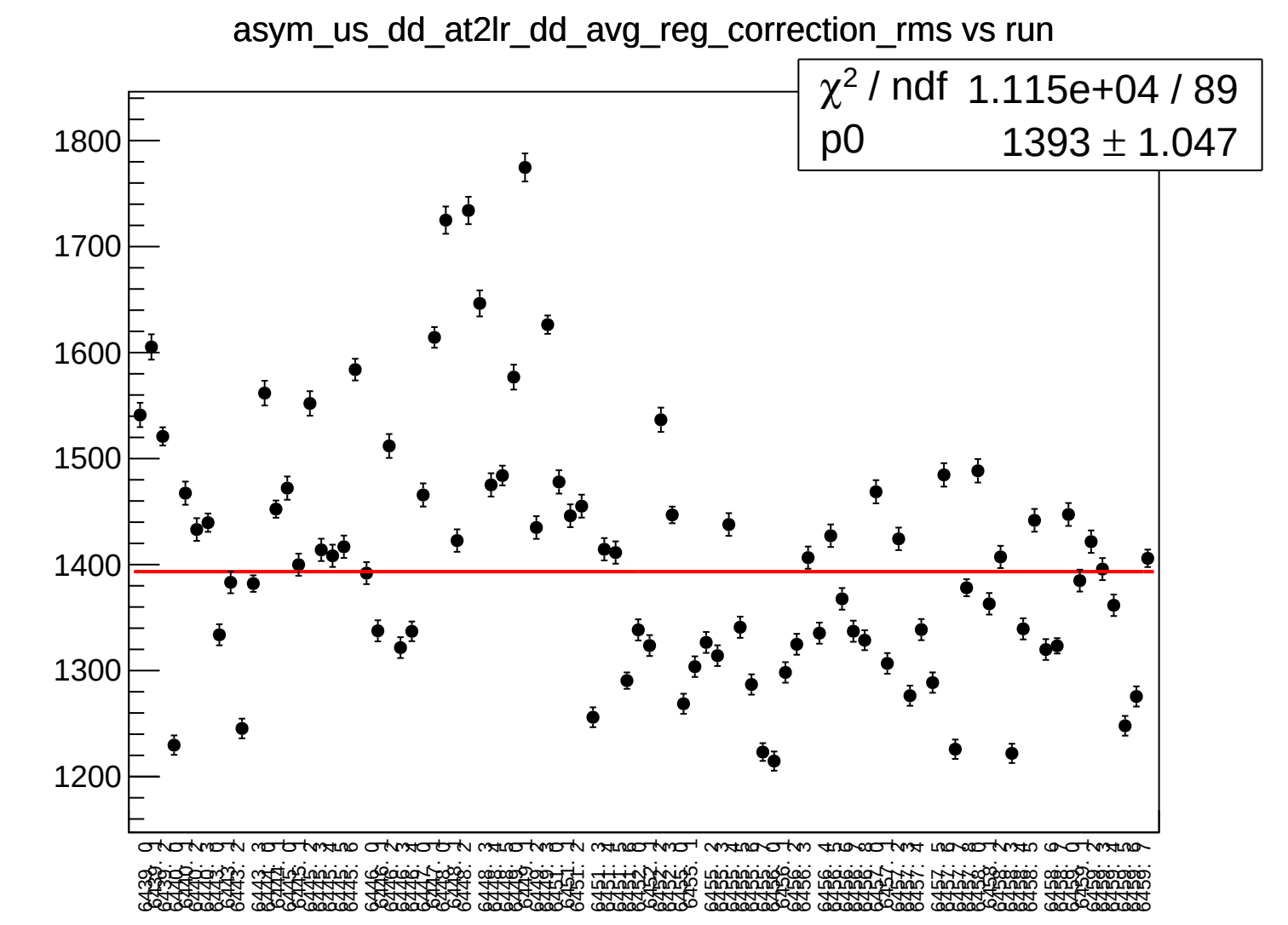

reg_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 101.4 / 89
p0 −2584 ± 2368
100
50
0
−50
−100
pull
Entries 90
Mean 818
Std Dev 0
3
2
1
0
−1
−2

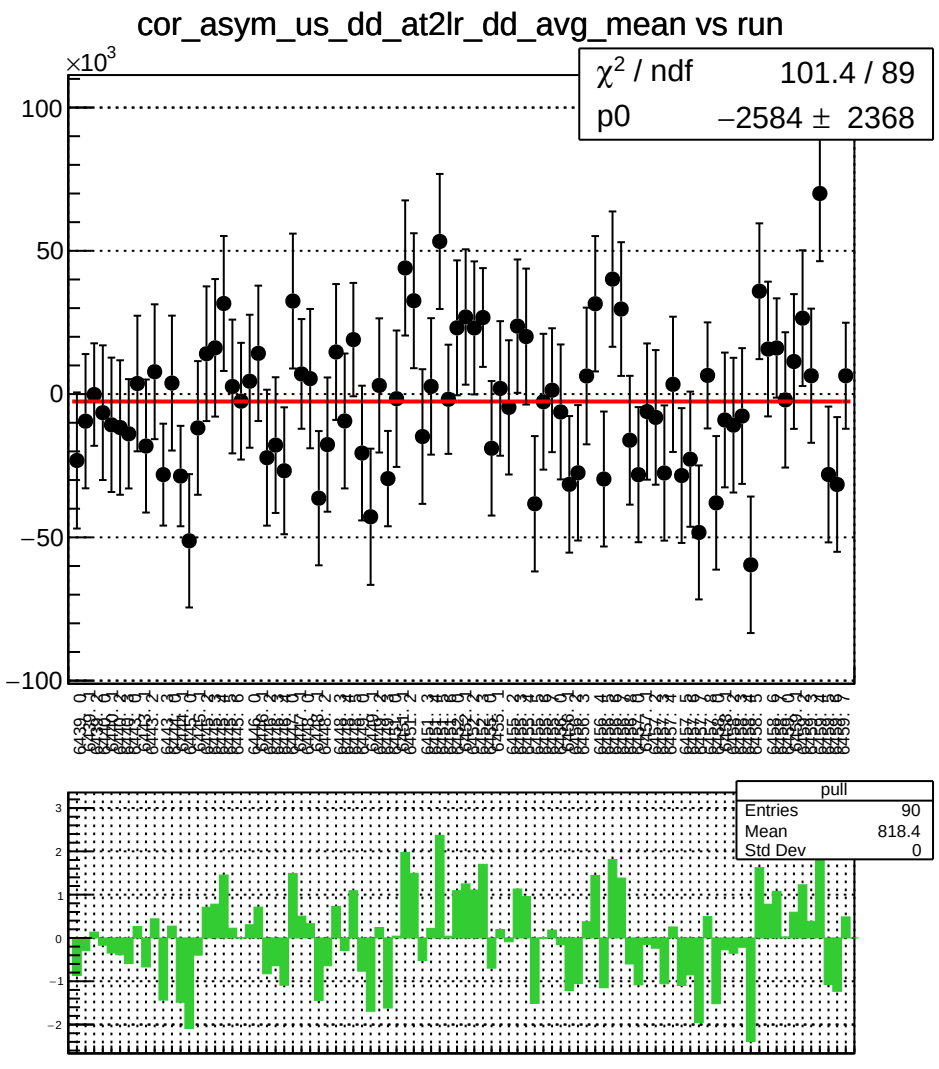

pull1D
Entries 90
Mean 0.002777
Std Dev 1.061
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

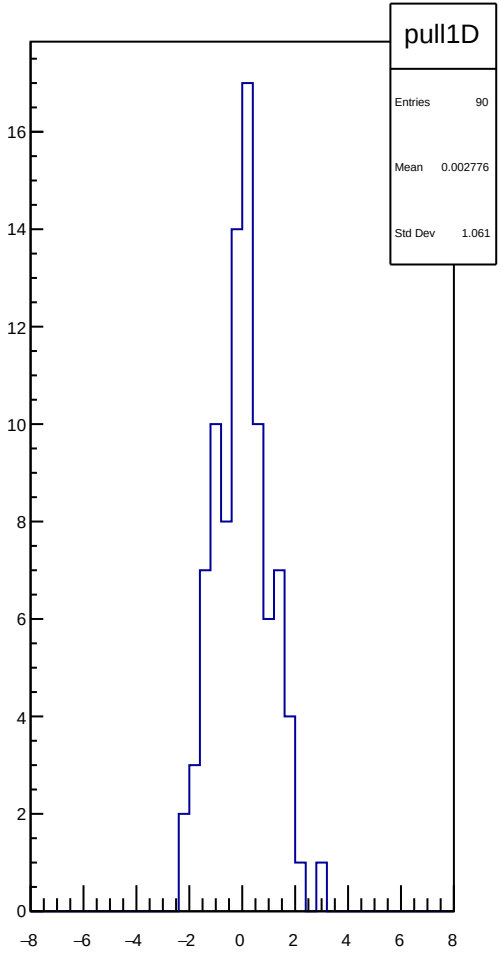

reg_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 87.96 / 89
p0 2235 ± 1.675
2320
2300
2280
2260
2240
2220
2200
2180

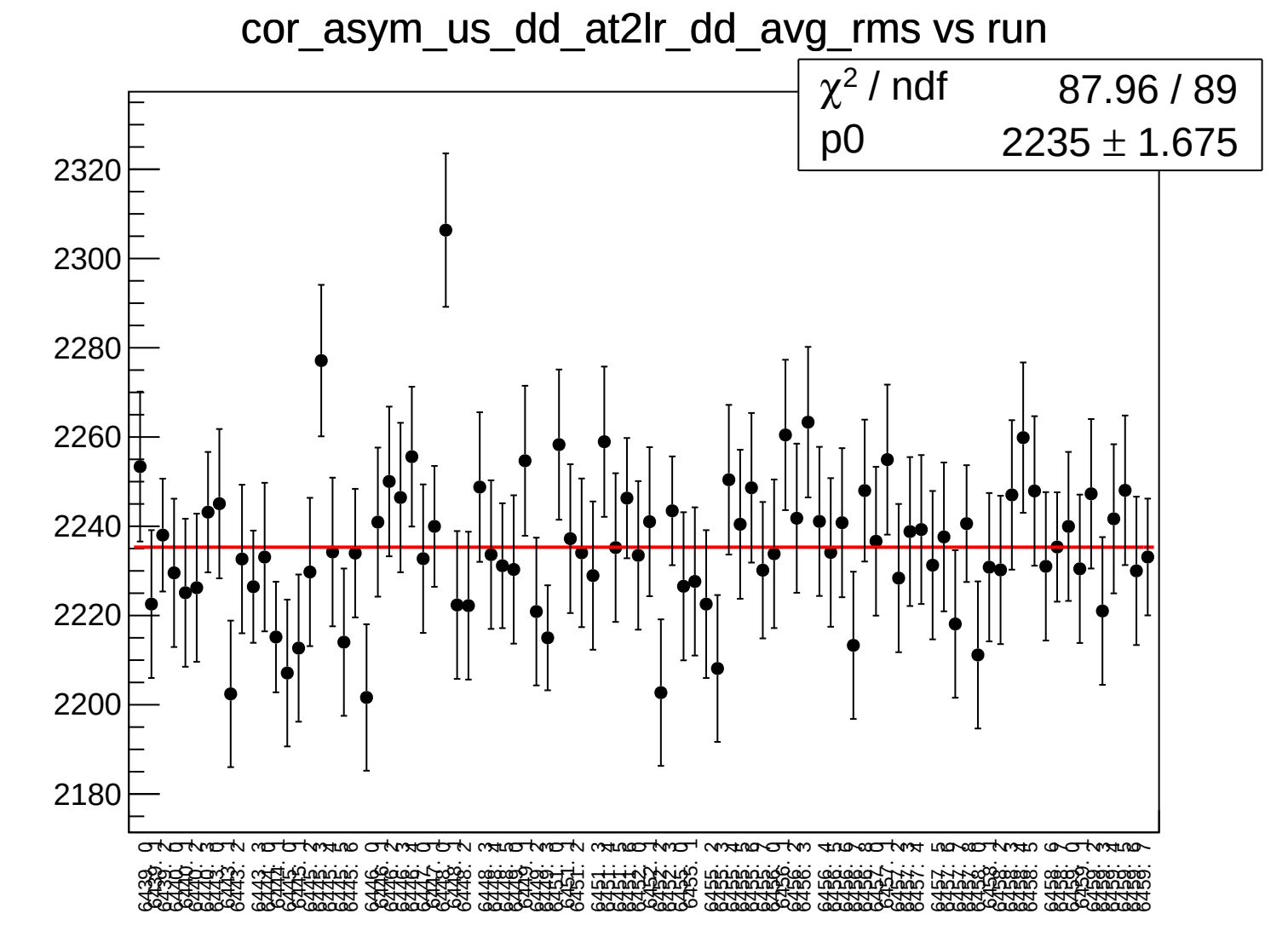

asym_us_dd_at2lr_dd_avg_reg_correction_mean vs run
χ² / ndf 67.7 / 89
p0 −4528 ± 1481
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −279.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

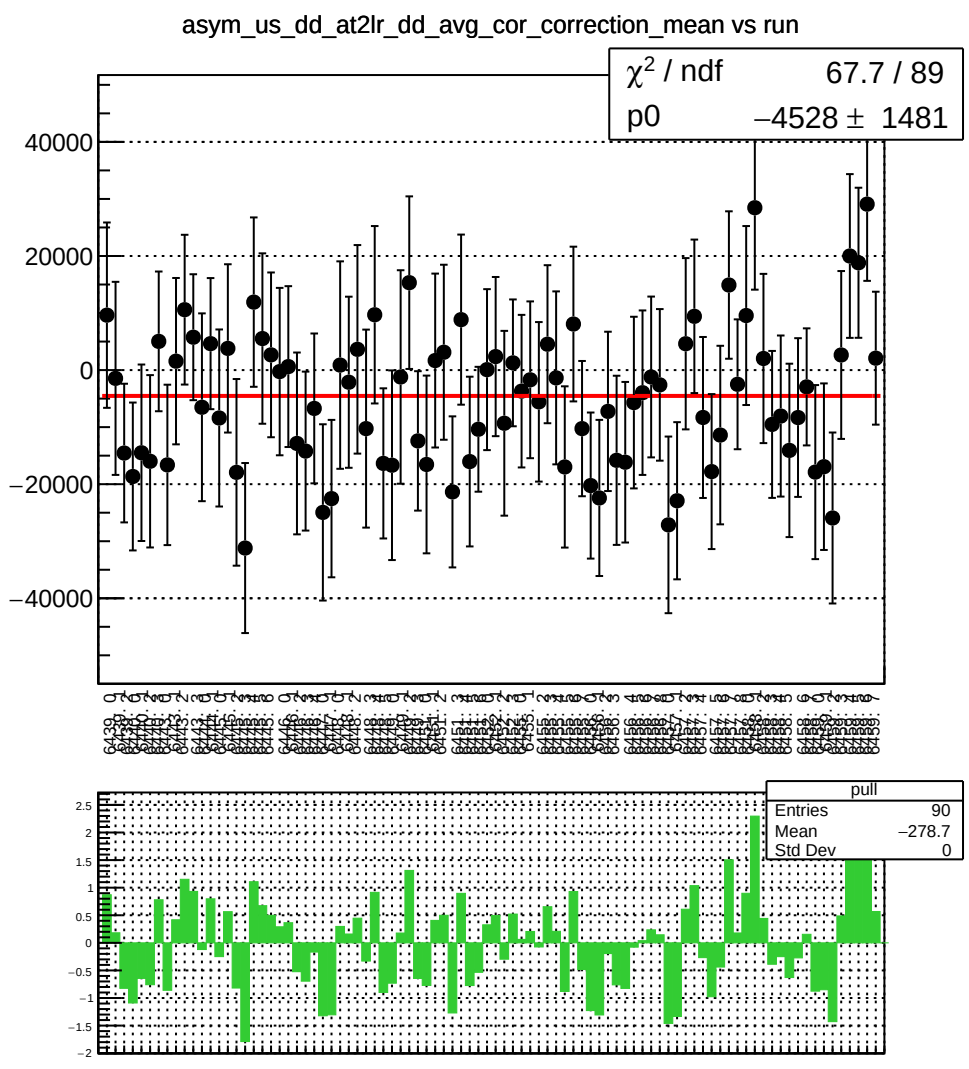

pull1D
Entries 90
Mean −0.007648
Std Dev 0.8673
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

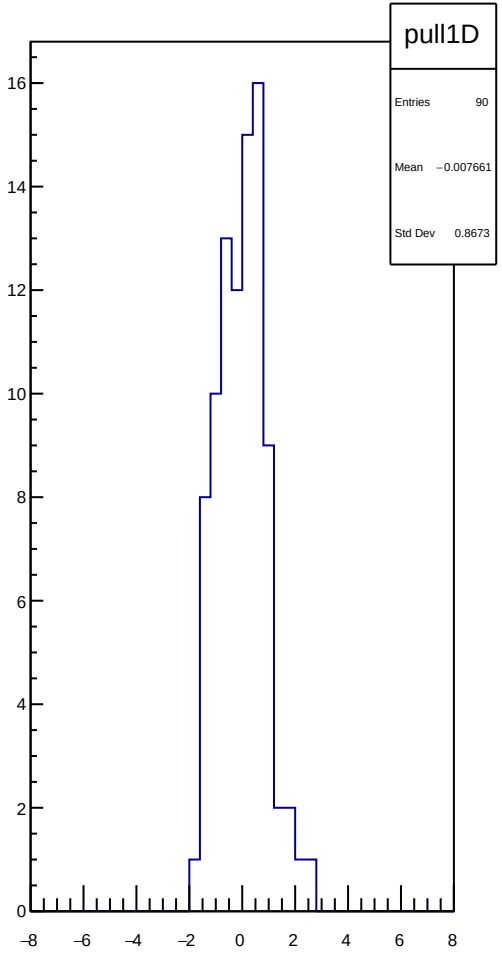

asym_us_dd_at2lr_dd_avg_reg_correction_rms vs run
χ² / ndf 1.115e+04 / 89
p0 1393 ± 1.047
1800
1700
1600
1500
1400
1300
1200

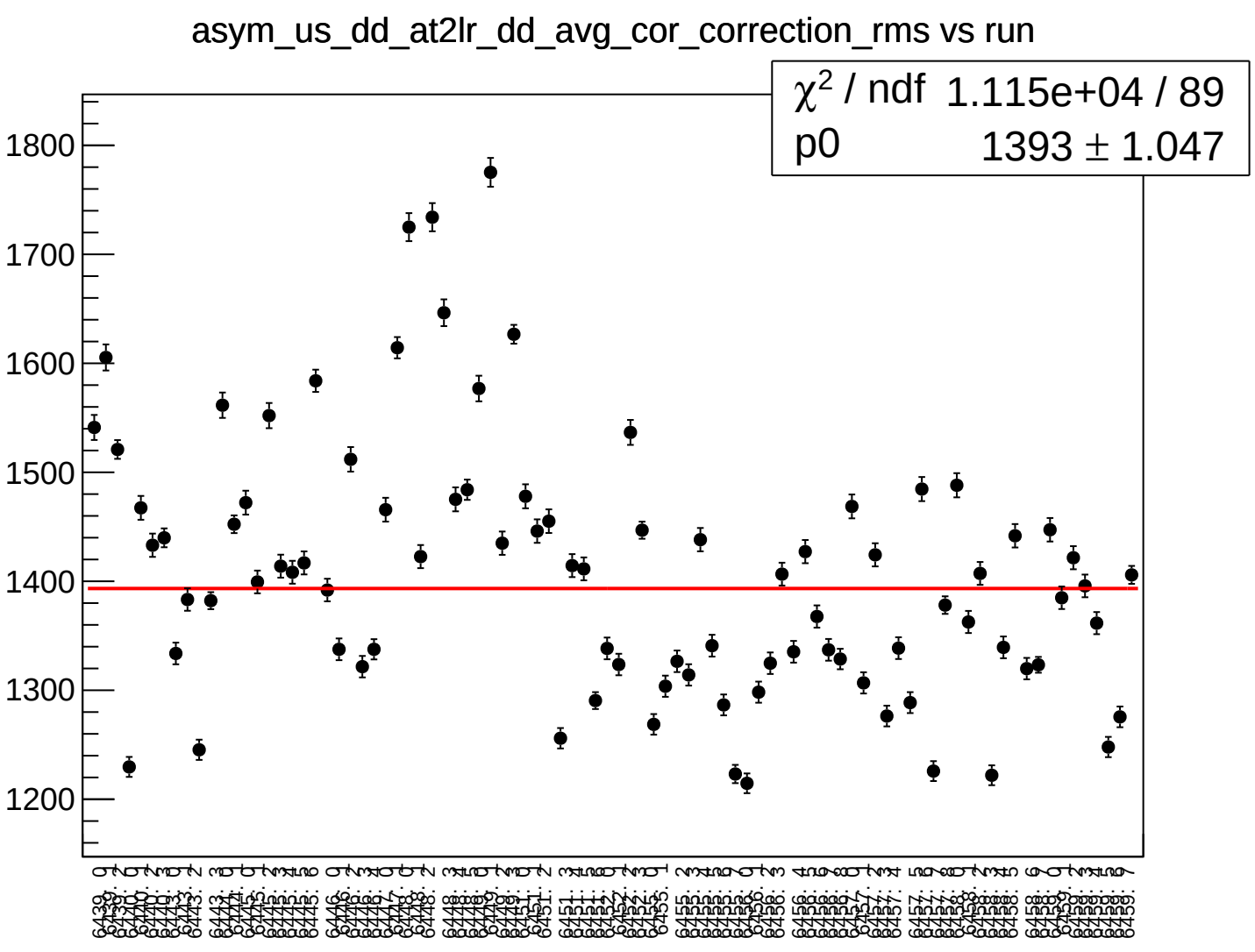

cor_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 101.4 / 89
p0 −2584 ± 2368
100
50
0
−50
−100
pull
Entries 90
Mean 818.4
Std Dev 0
3
2
1
0
−1
−2

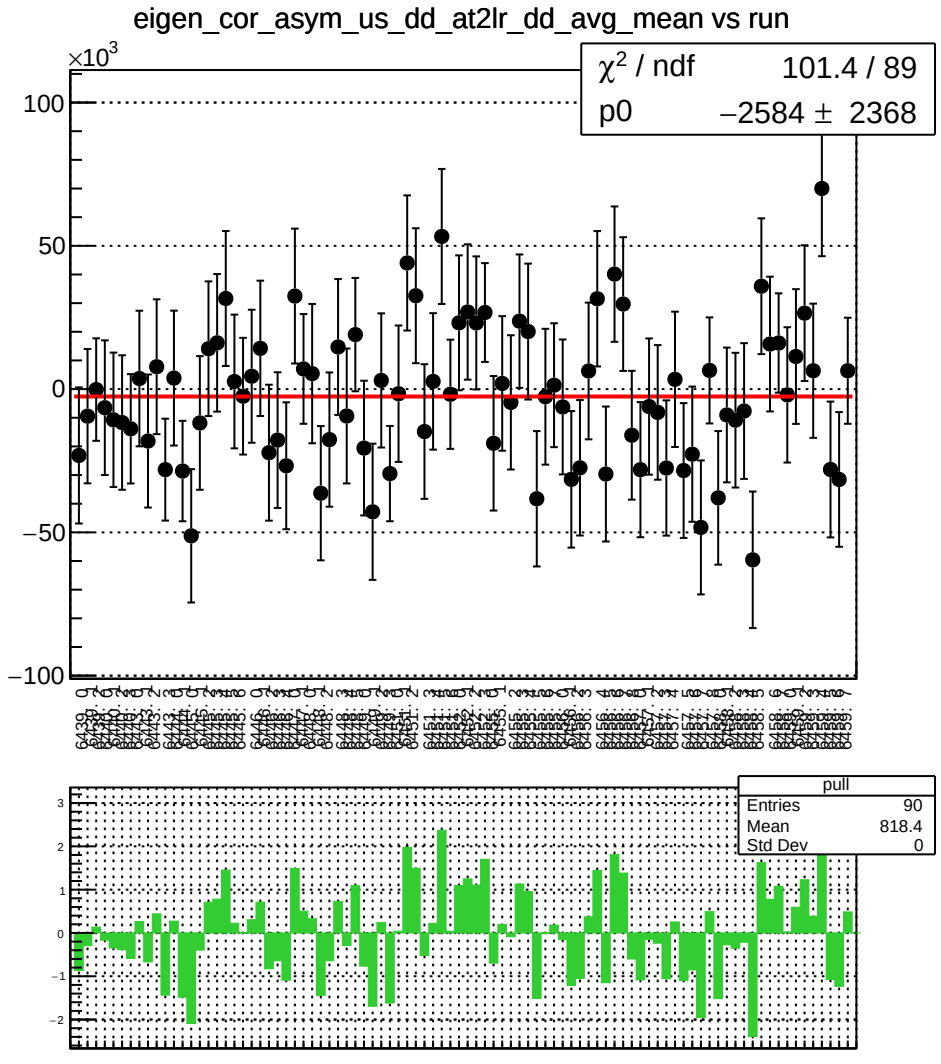

pull1D
Entries 90
Mean 0.002776
Std Dev 1.061
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

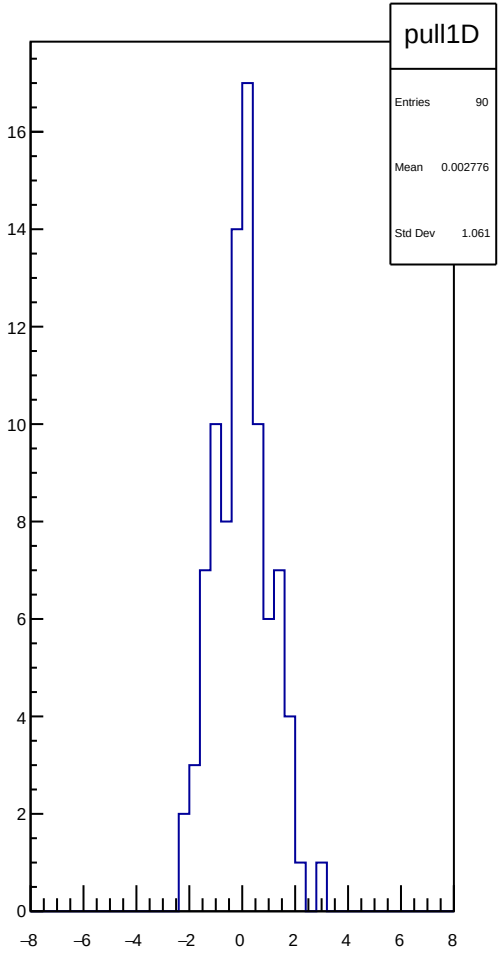

cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ^2 / ndf 87.96 / 89
p0 2235 ± 1.675
2320
2300
2280
2260
2240
2220
2200
2180

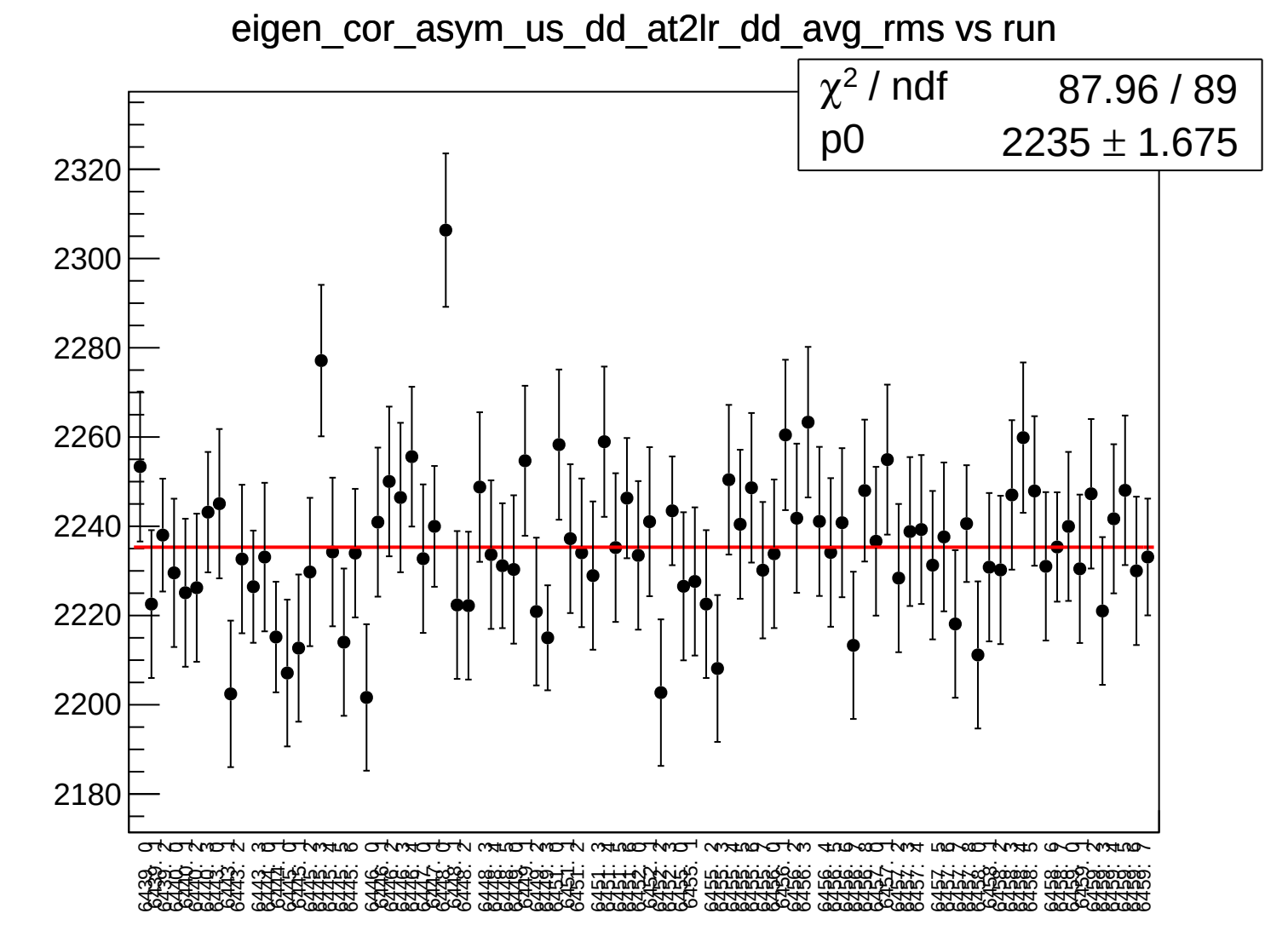

asym_us_dd_at2lr_dd_avg_cor_correction_mean vs run
χ² / ndf 67.7 / 89
p0 −4528 ± 1481
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −278.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

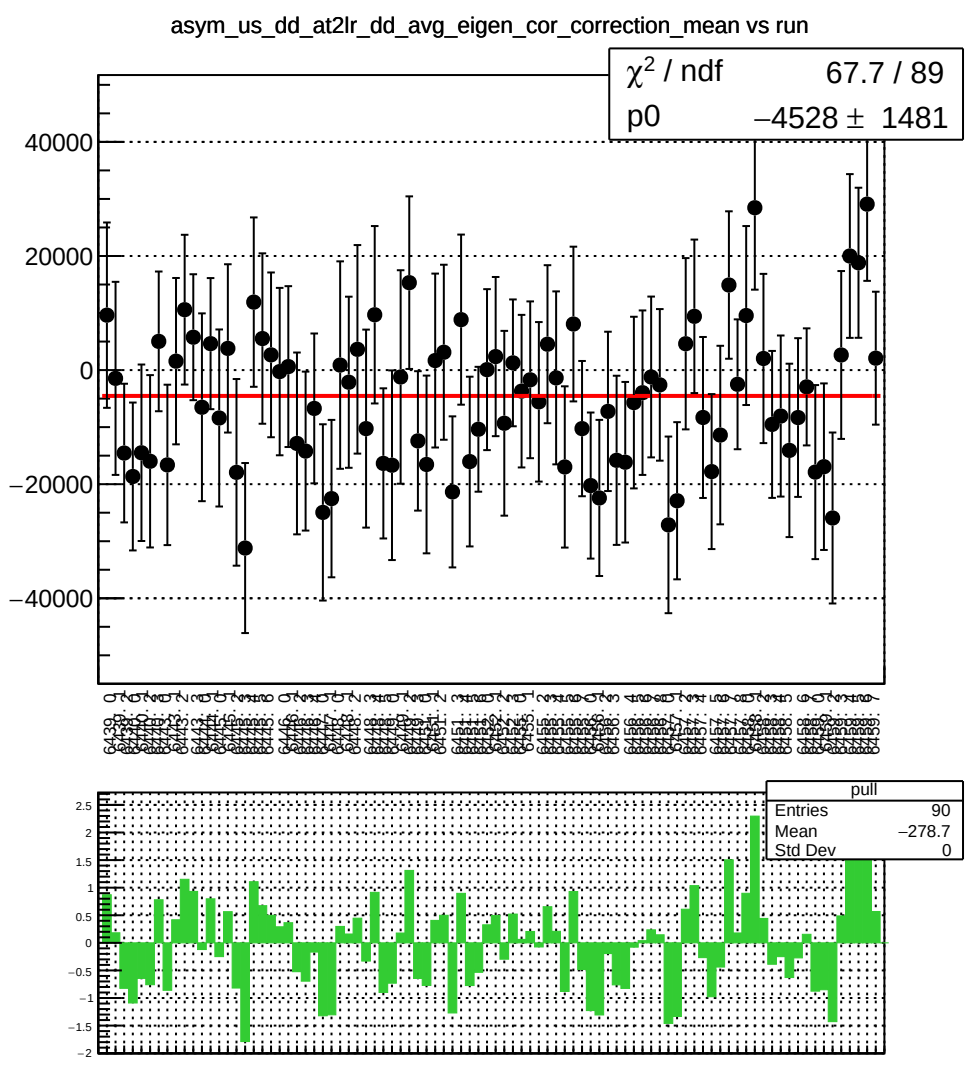

pull1D
Entries 90
Mean −0.007661
Std Dev 0.8673
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

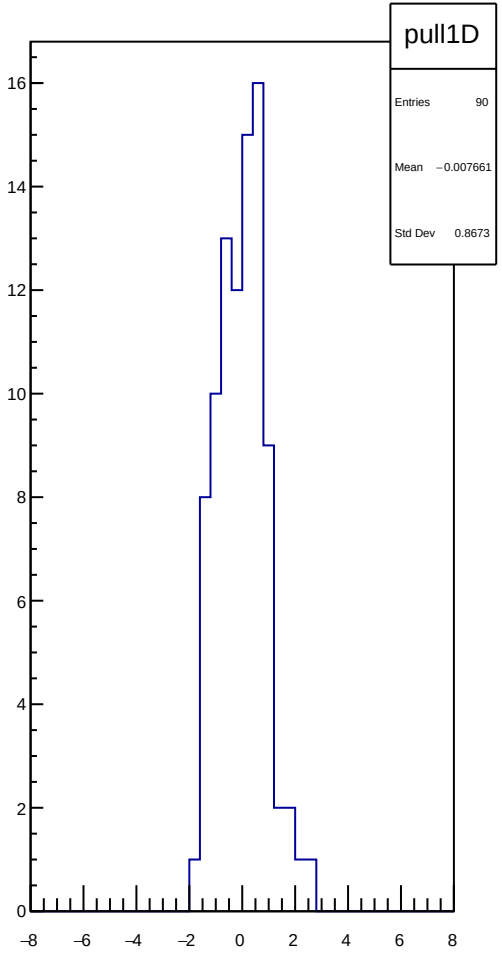

asym_us_dd_at2lr_dd_avg_cor_correction_rms vs run
χ² / ndf 1.115e+04 / 89
p0 1393 ± 1.047
1800
1700
1600
1500
1400
1300
1200

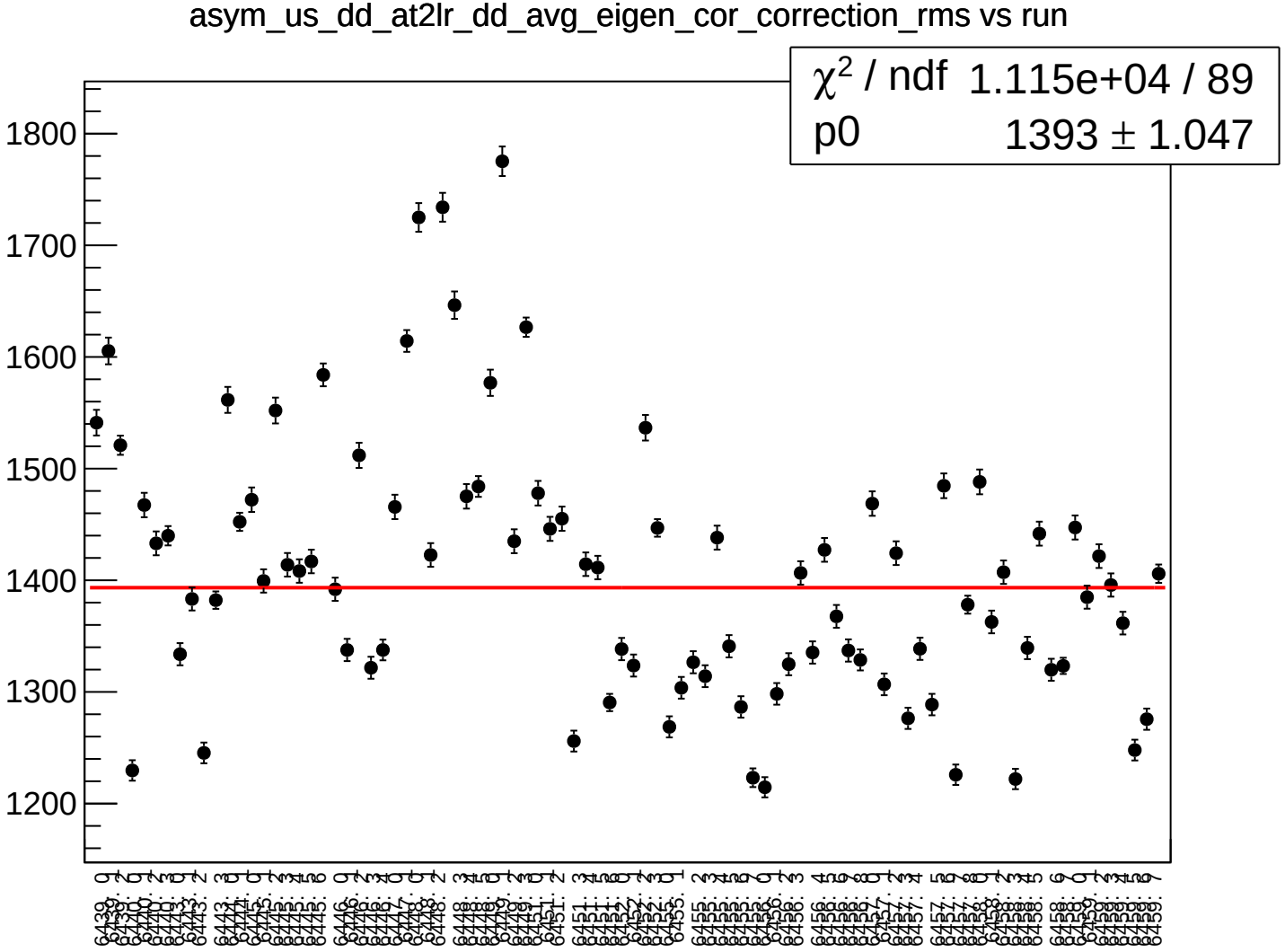

eigen_cor_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 101.4 / 89
p0 −2584 ± 2368
100
50
0
−50
−100
pull
Entries 90
Mean 818.4
Std Dev 0
3
2
1
0
−1
−2

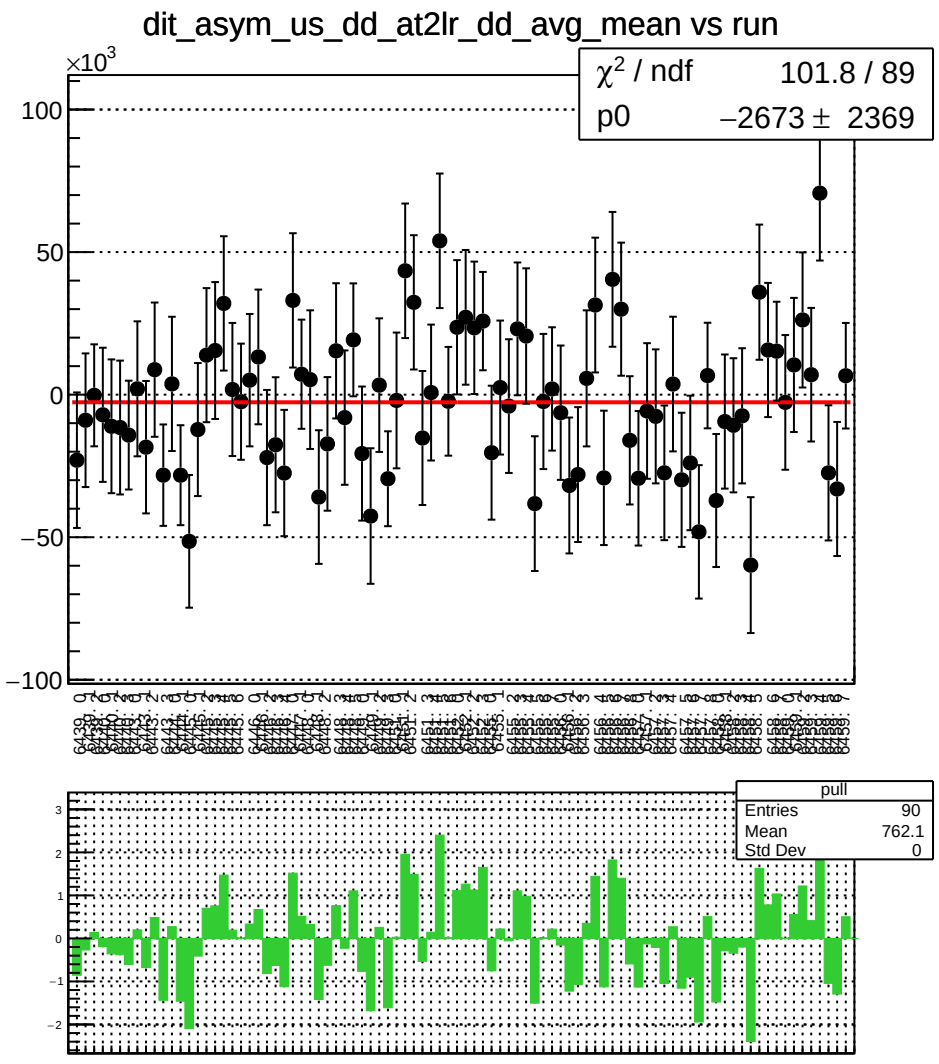

pull1D
Entries 90
Mean 0.002776
Std Dev 1.061
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

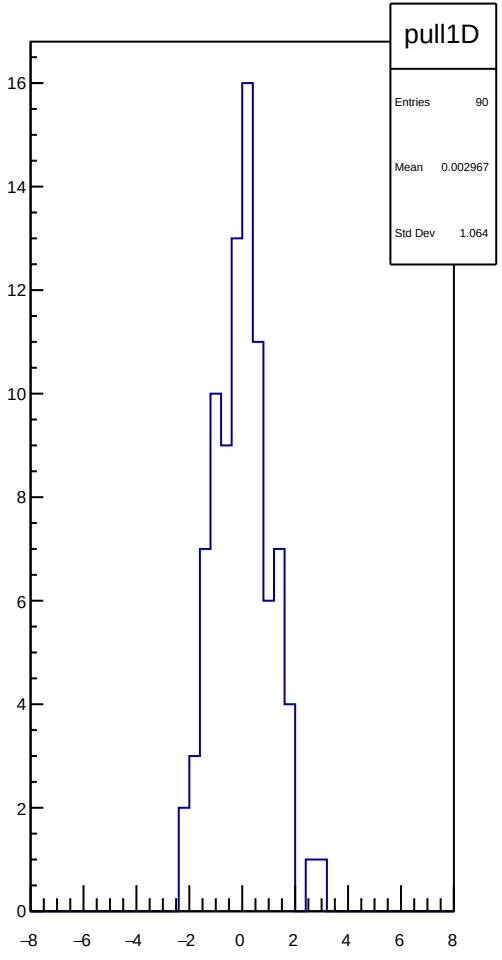

eigen_cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ^2 / ndf 87.96 / 89
p0 2235 ± 1.675
2320
2300
2280
2260
2240
2220
2200
2180

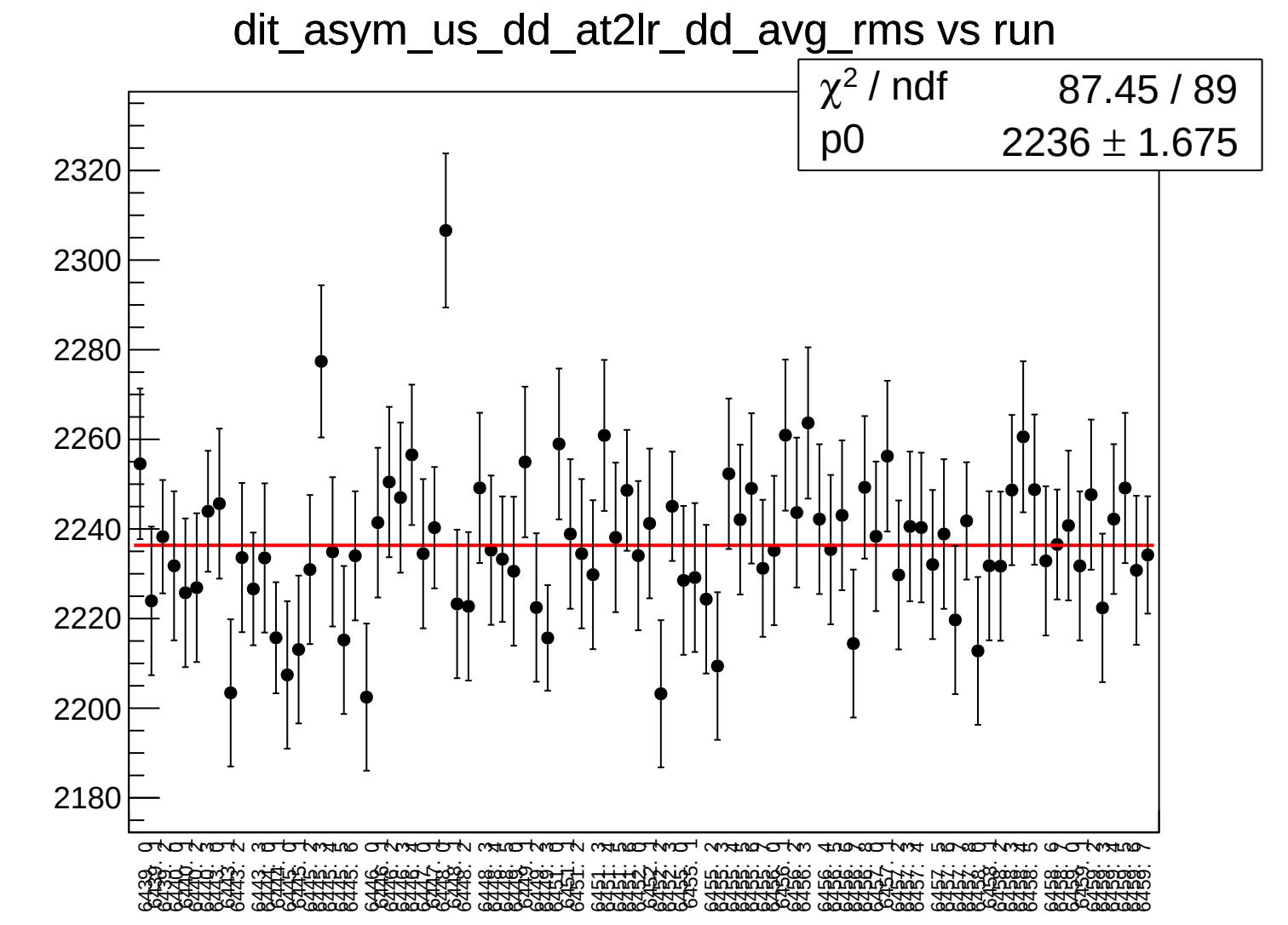

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 67.7 / 89
p0 −4528 ± 1481
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −278.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

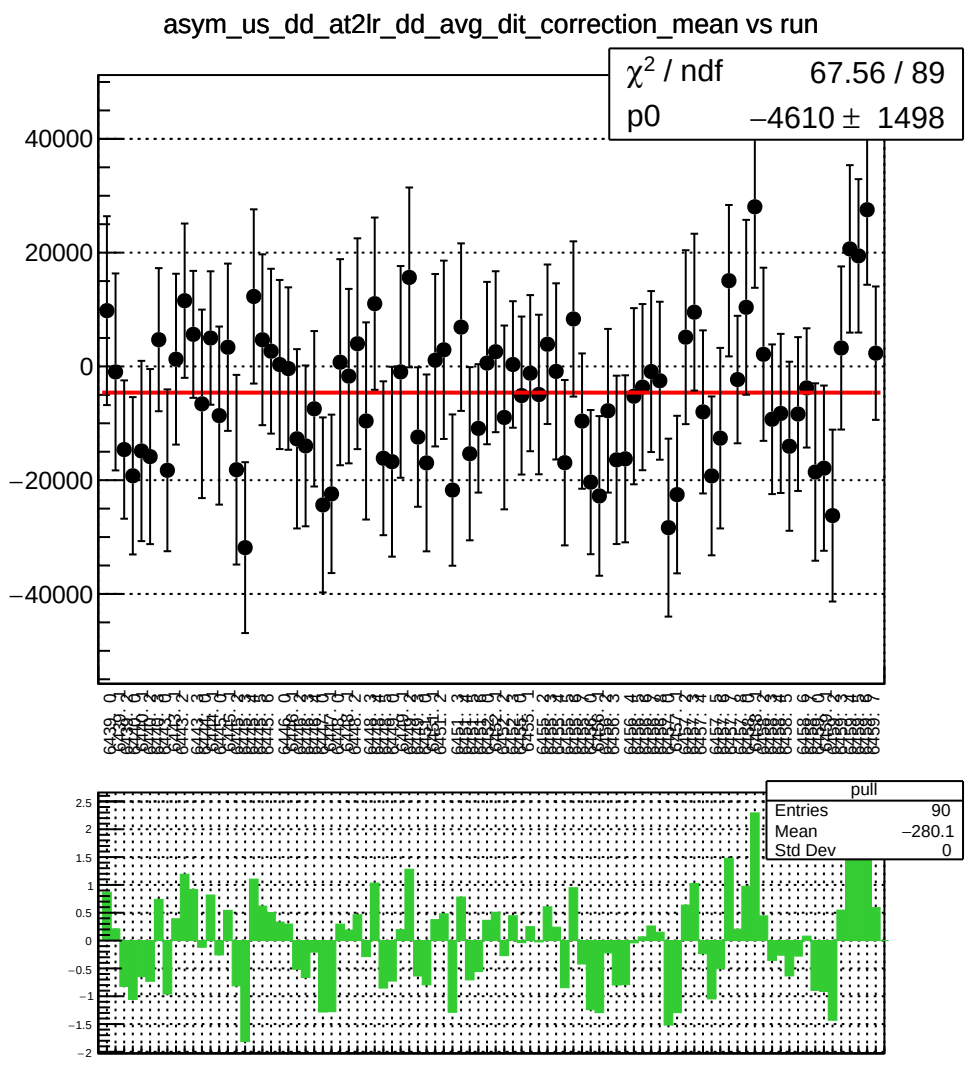

pull1D
Entries 90
Mean −0.007661
Std Dev 0.8673
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

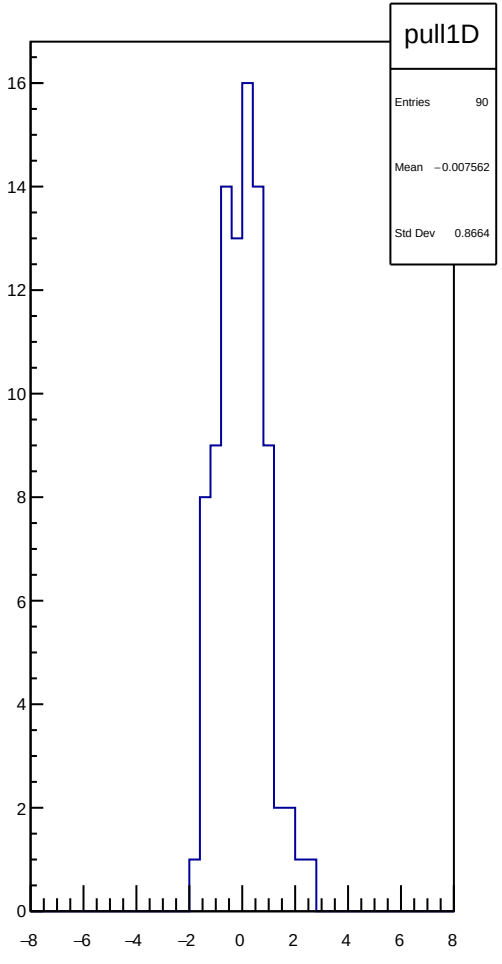

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.115e+04 / 89
p0 1393 ± 1.047
1800
1700
1600
1500
1400
1300
1200


dit_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 101.8 / 89
p0 −2673 ± 2369
100
50
0
−50
−100
pull
Entries 90
Mean 762.1
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 90
Mean 0.002967
Std Dev 1.064
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 87.45 / 89
p0 2236 ± 1.675
2320
2300
2280
2260
2240
2220
2200
2180


asym_us_dd_at2lr_dd_avg_dit_correction_mean vs run
χ² / ndf 67.56 / 89
p0 −4610 ± 1498
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −280.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 90
Mean −0.007562
Std Dev 0.8664
16
14
12
10
8
6
4
2
0
−8
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−4
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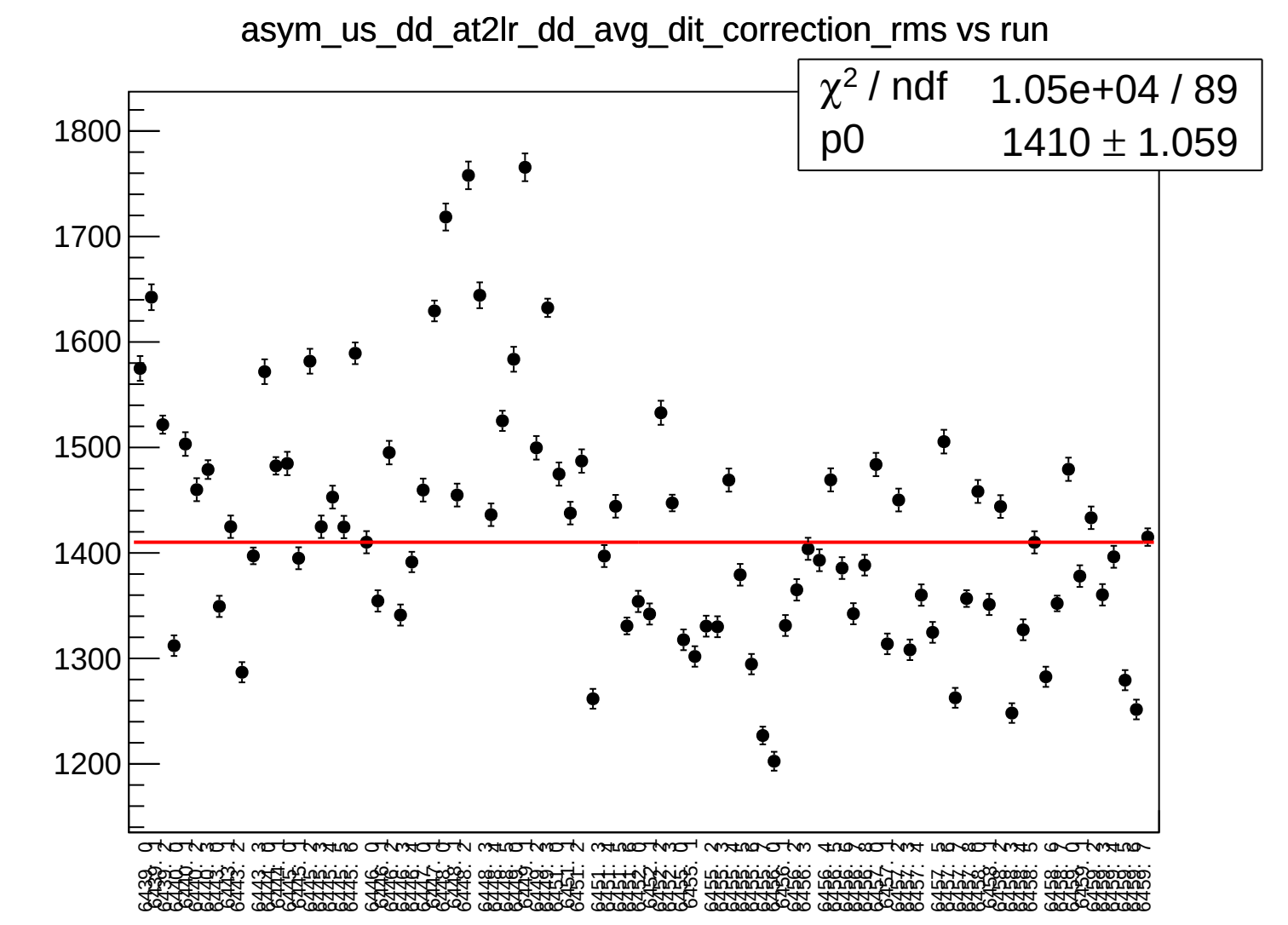
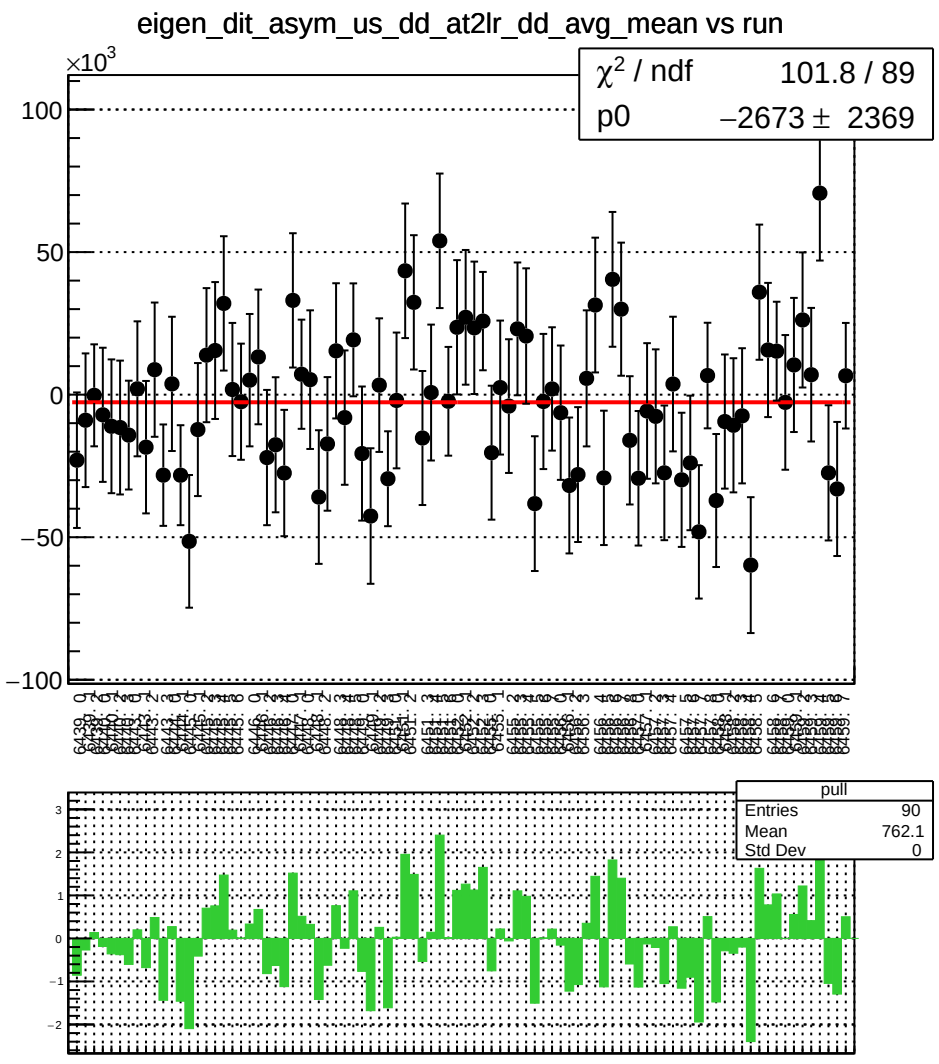
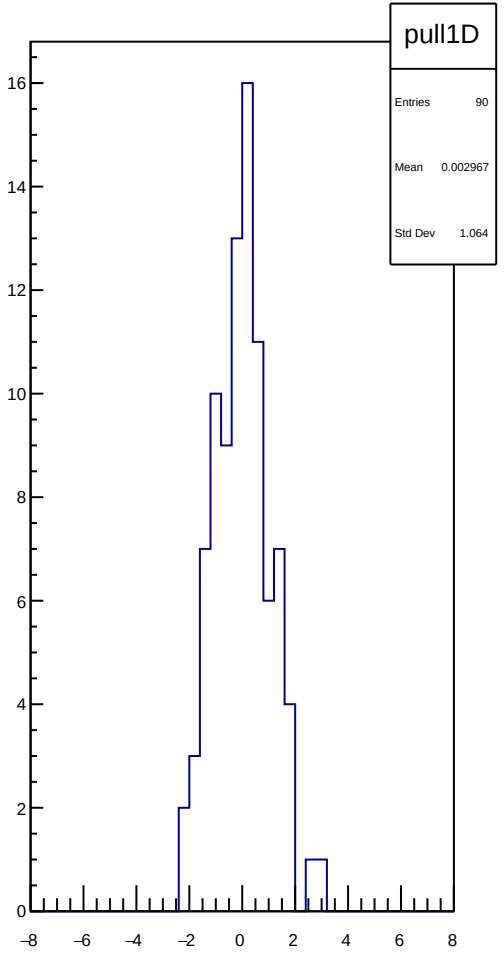
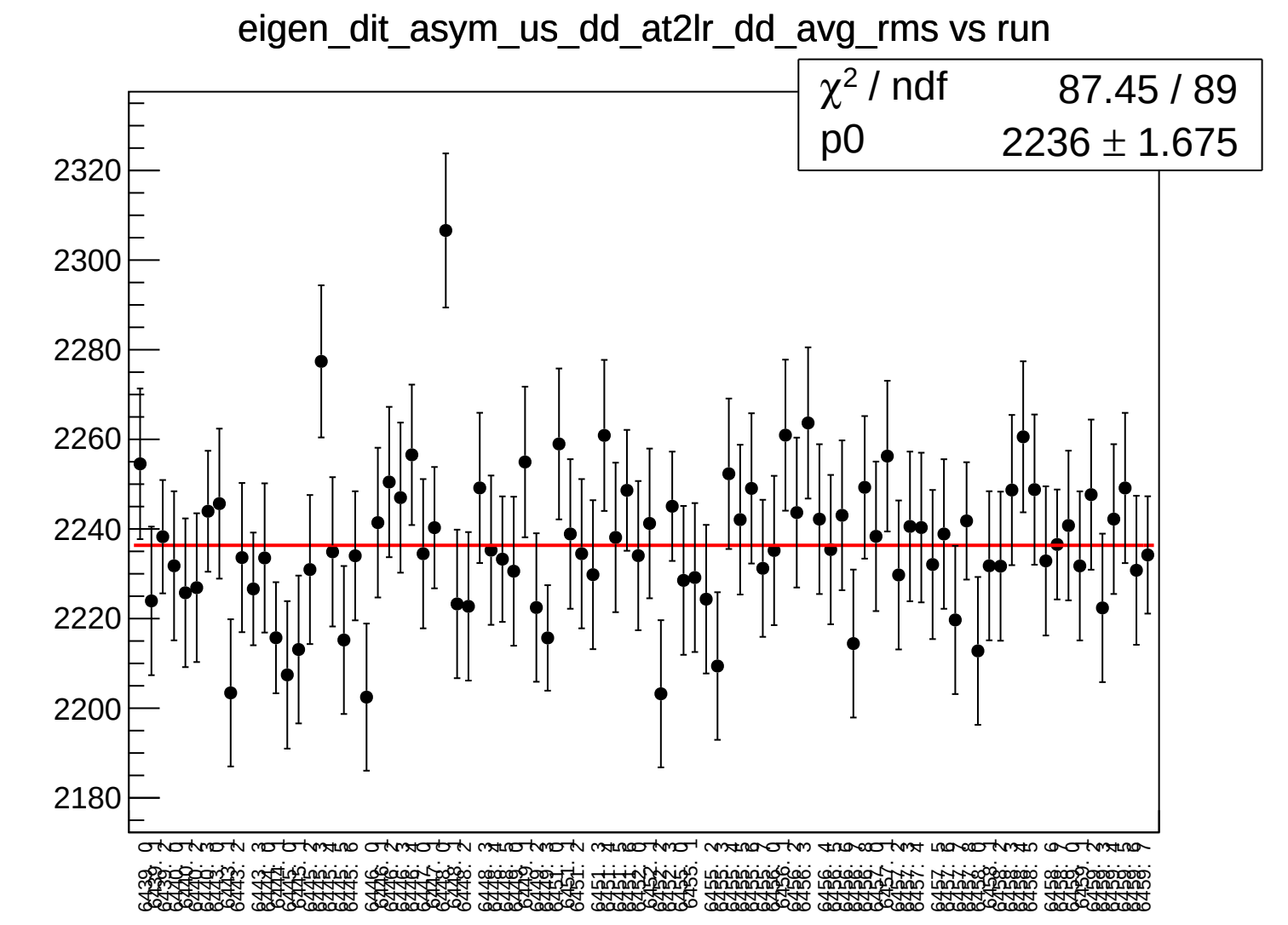
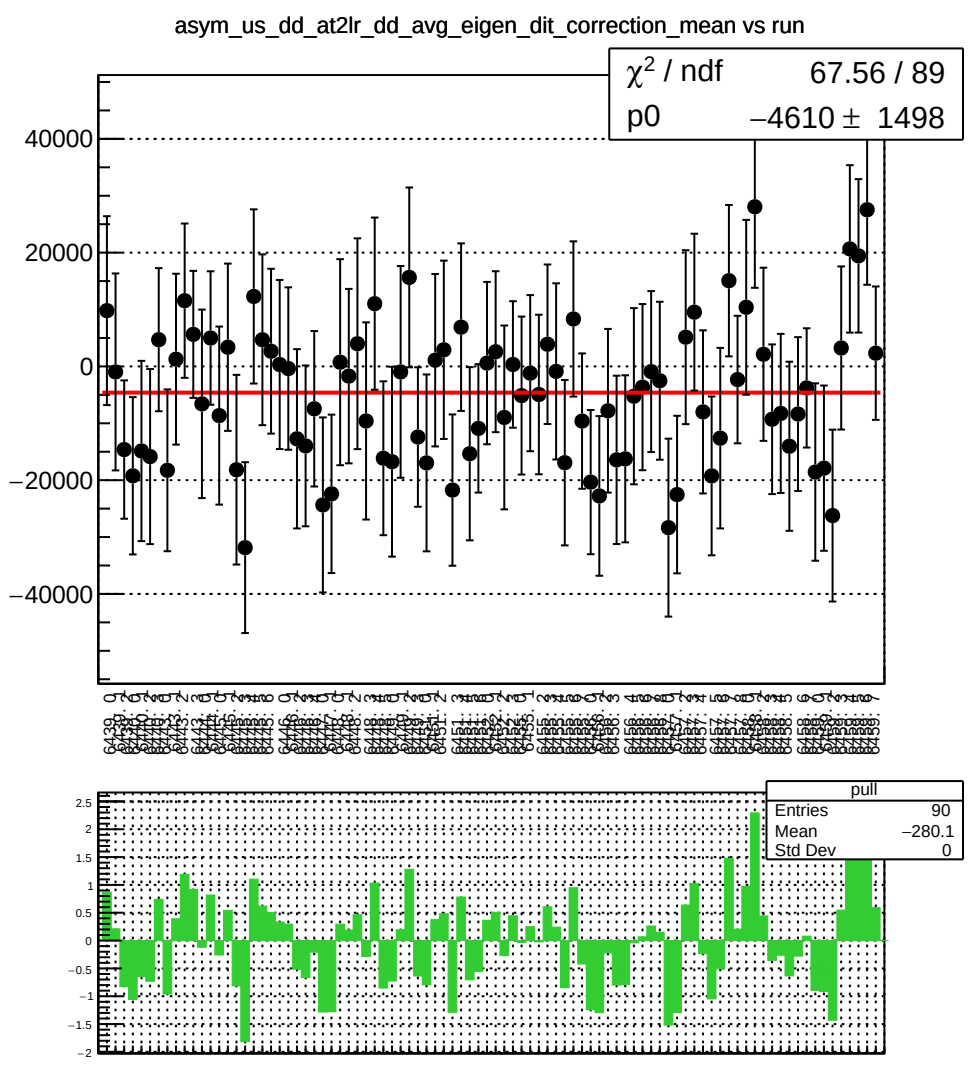
0
2
4
6
8

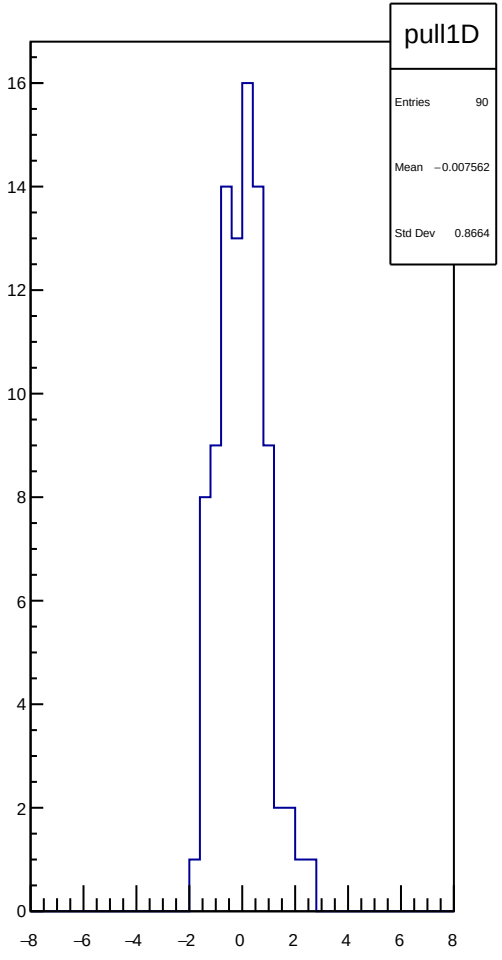

asym_us_dd_at2lr_dd_avg_dit_correction_rms vs run
χ² / ndf 1.05e+04 / 89
p0 1410 ± 1.059
1800
1700
1600
1500
1400
1300
1200

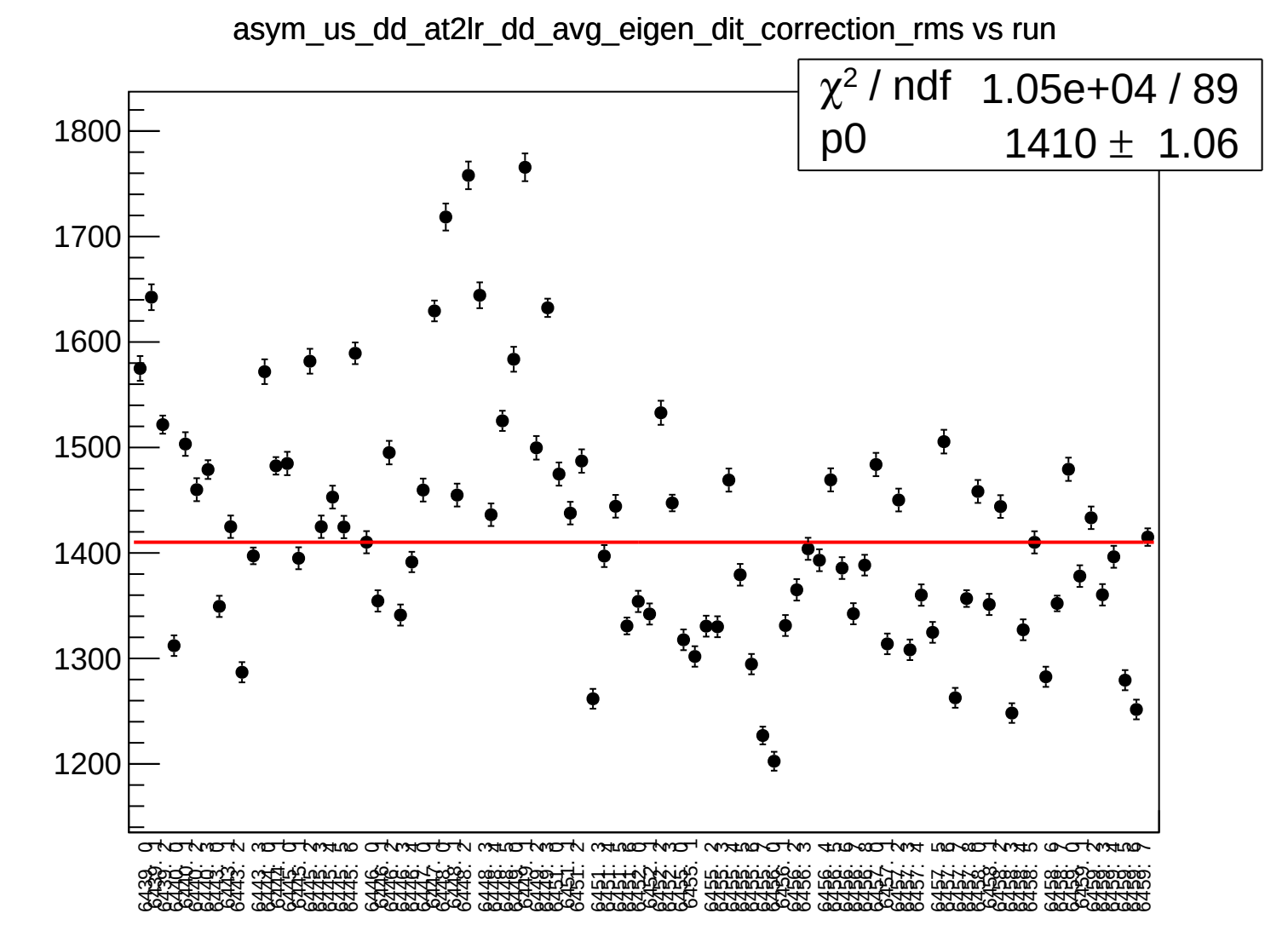

eigen_dit_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 101.8 / 89
p0 −2673 ± 2369
100
50
0
−50
−100
pull
Entries 90
Mean 762.1
Std Dev 0
3
2
1
0
−1
−2

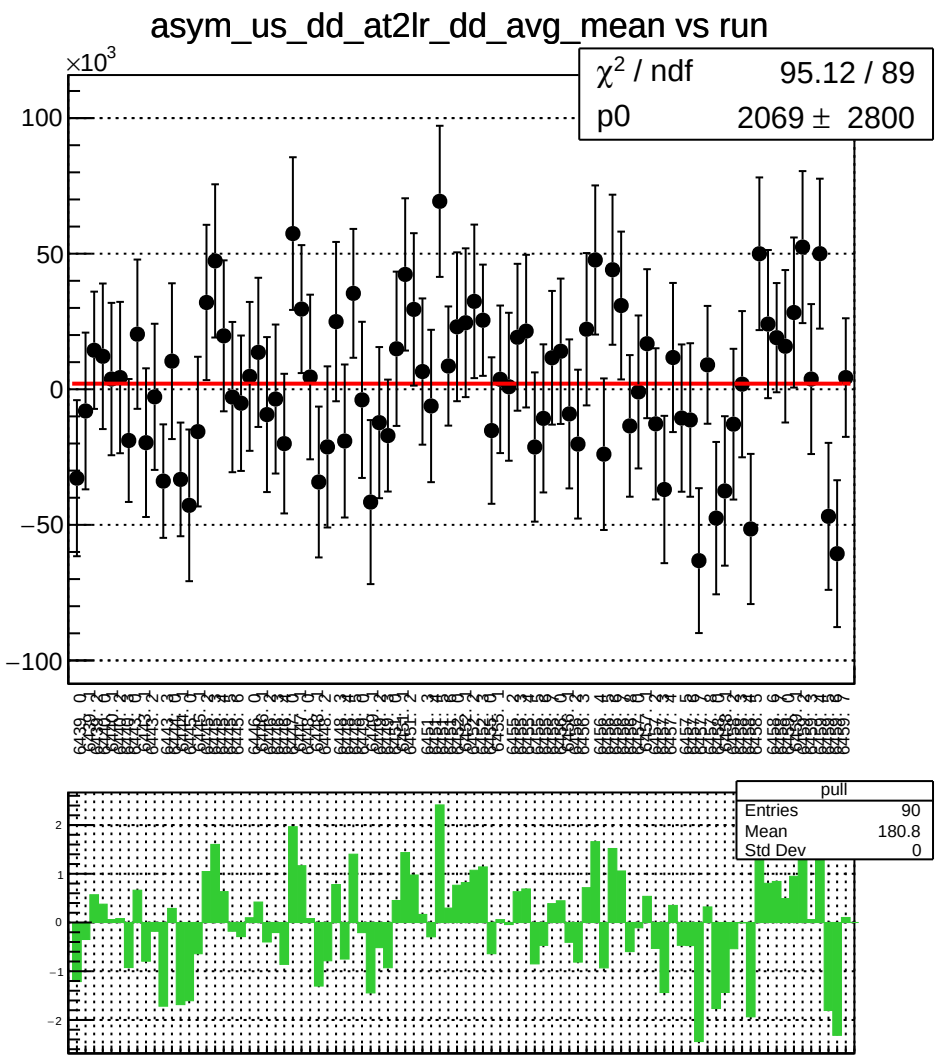

pull1D
Entries 90
Mean 0.002967
Std Dev 1.064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

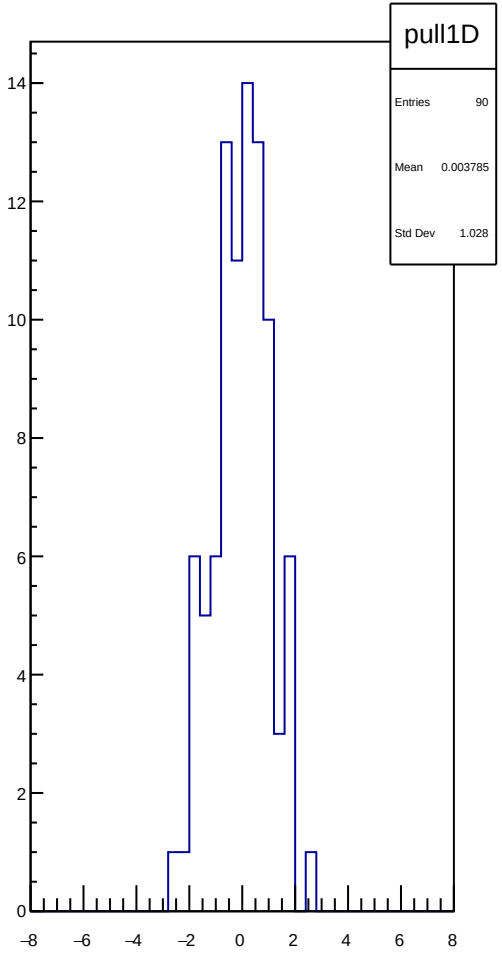

eigen_dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 87.45 / 89
p0 2236 ± 1.675
2320
2300
2280
2260
2240
2220
2200
2180

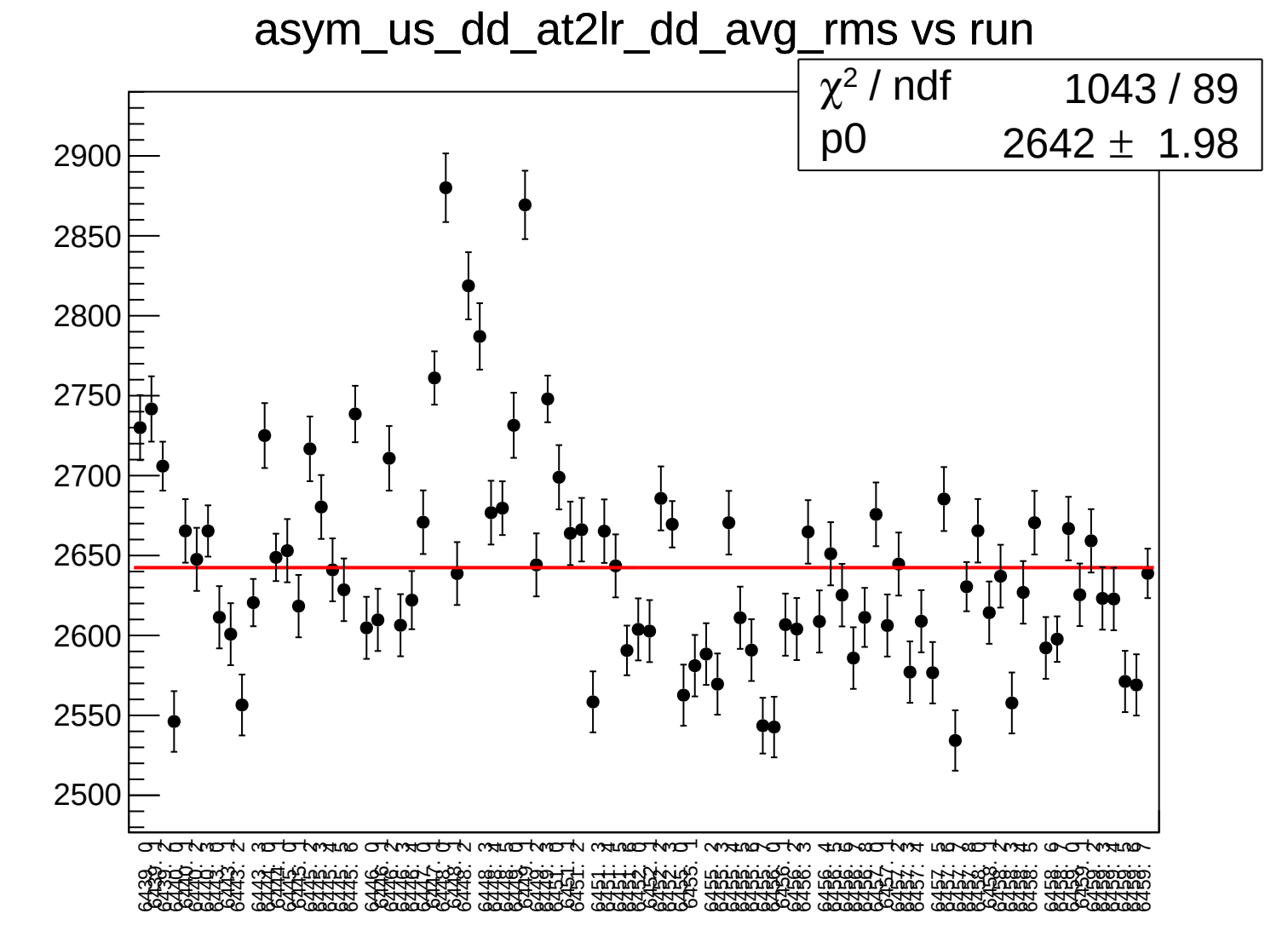

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 67.56 / 89
p0 −4610 ± 1498
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −280.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

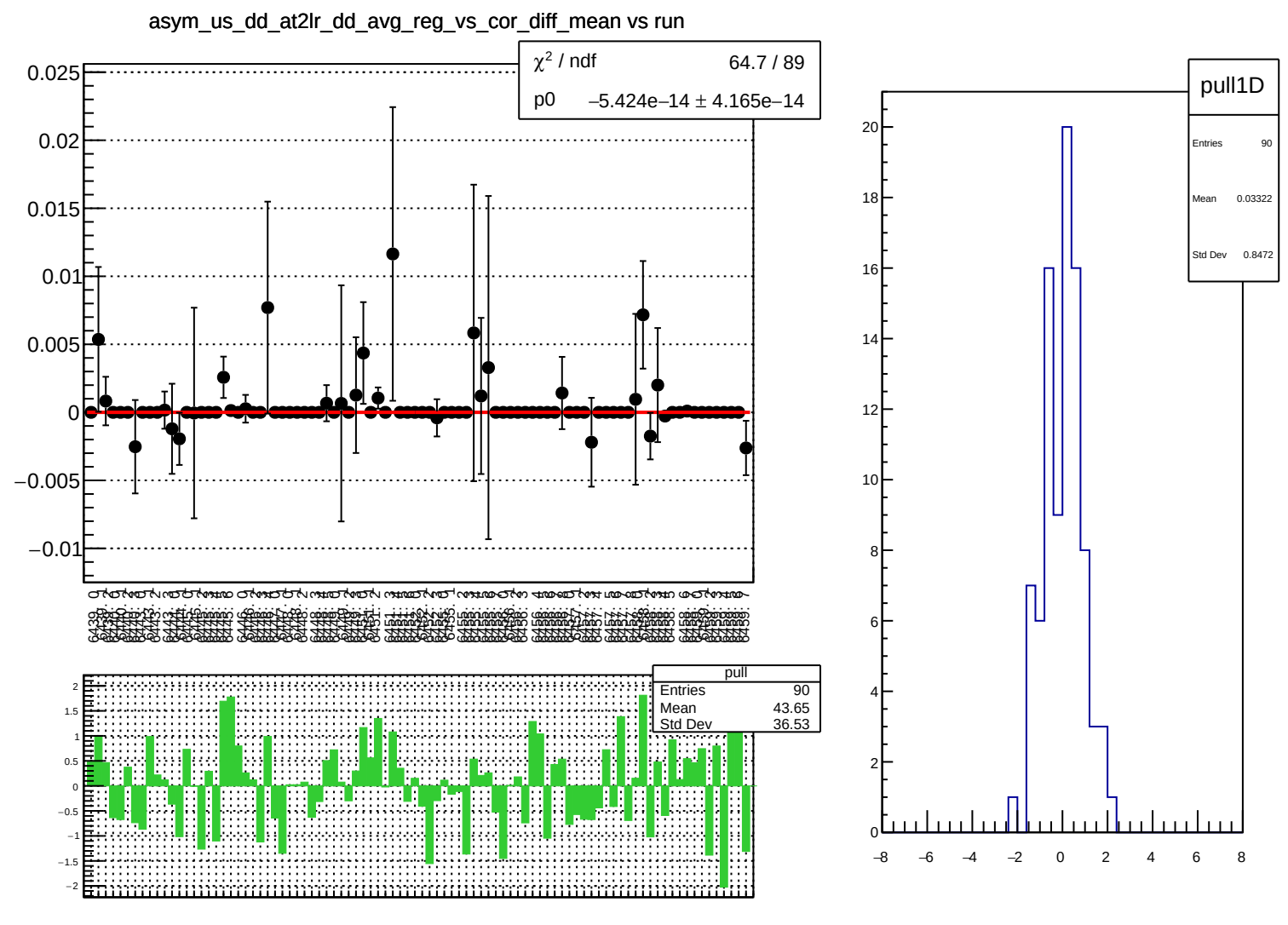

pull1D
Entries 90
Mean −0.007562
Std Dev 0.8664
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

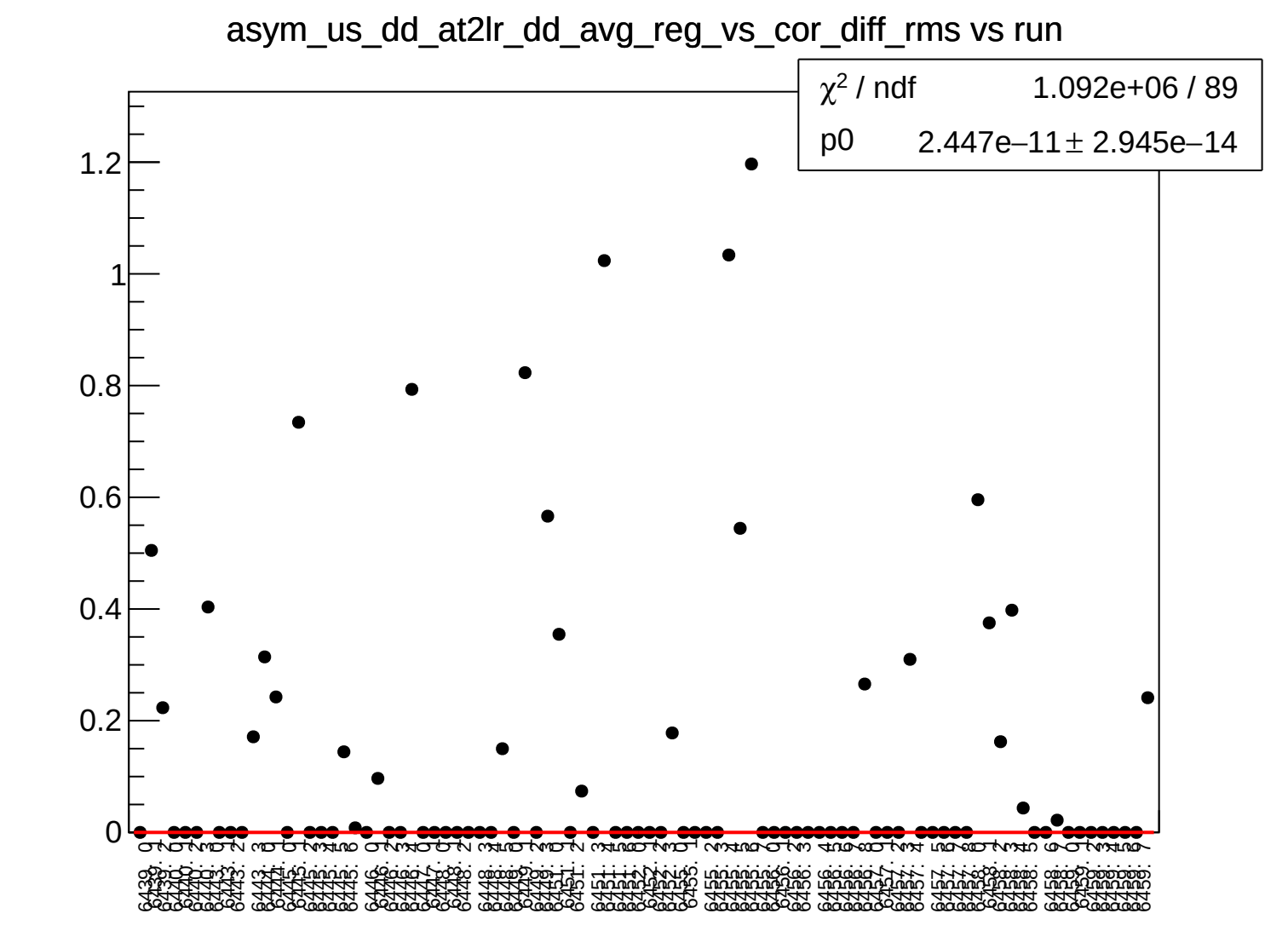

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.05e+04 / 89
p0 1410 ± 1.06
1800
1700
1600
1500
1400
1300
1200


asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 95.12 / 89
p0 2069 ± 2800
×10³
100
50
0
−50
−100
pull
Entries 90
Mean 180.8
Std Dev 0
2
1
0
−1
−2

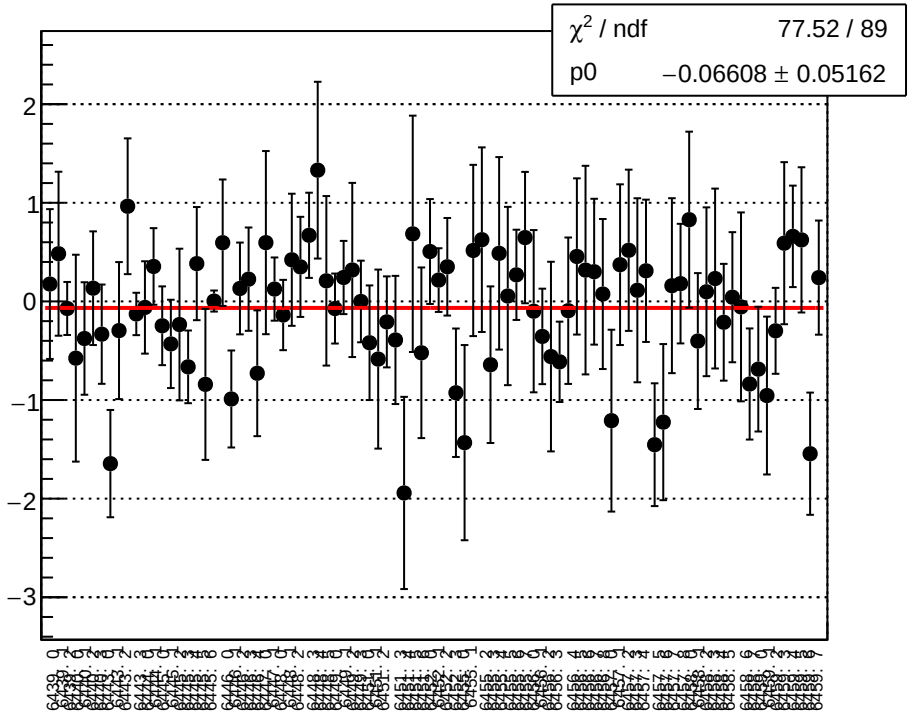

pull1D
Entries 90
Mean 0.003785
Std Dev 1.028
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

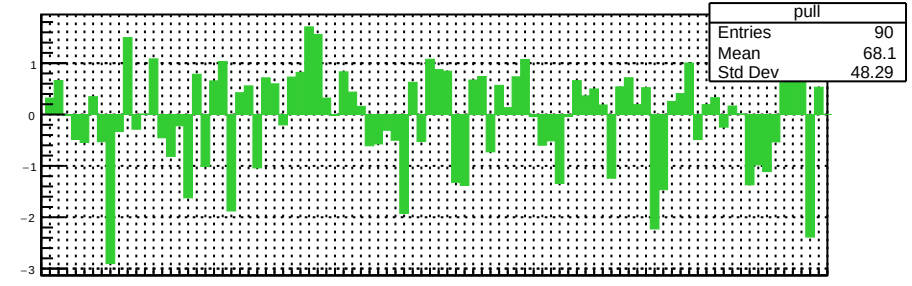

asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 1043 / 89
p0 2642 ± 1.98
2900
2850
2800
2750
2700
2650
2600
2550
2500

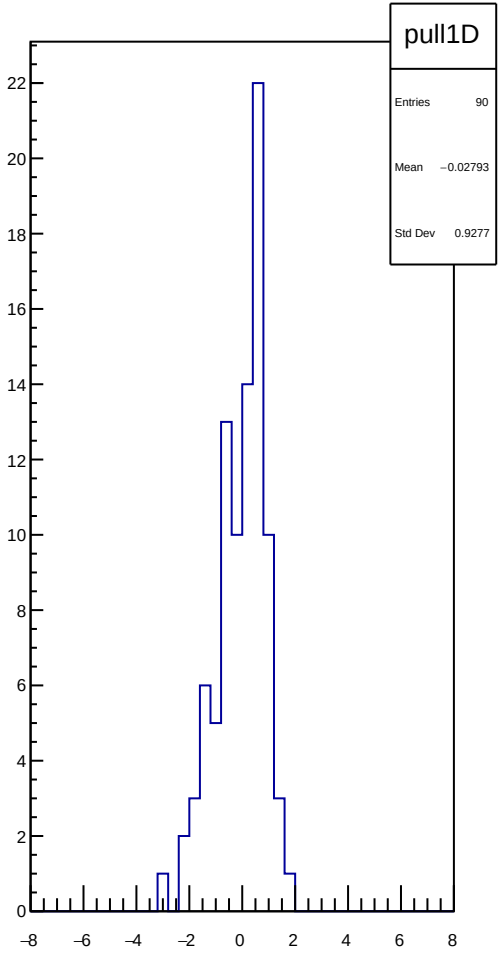

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 64.7 / 89
p0 −5.424e−14 ± 4.165e−14
0.025
0.02
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 90
Mean 43.65
Std Dev 36.53
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 90
Mean 0.03322
Std Dev 0.8472
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

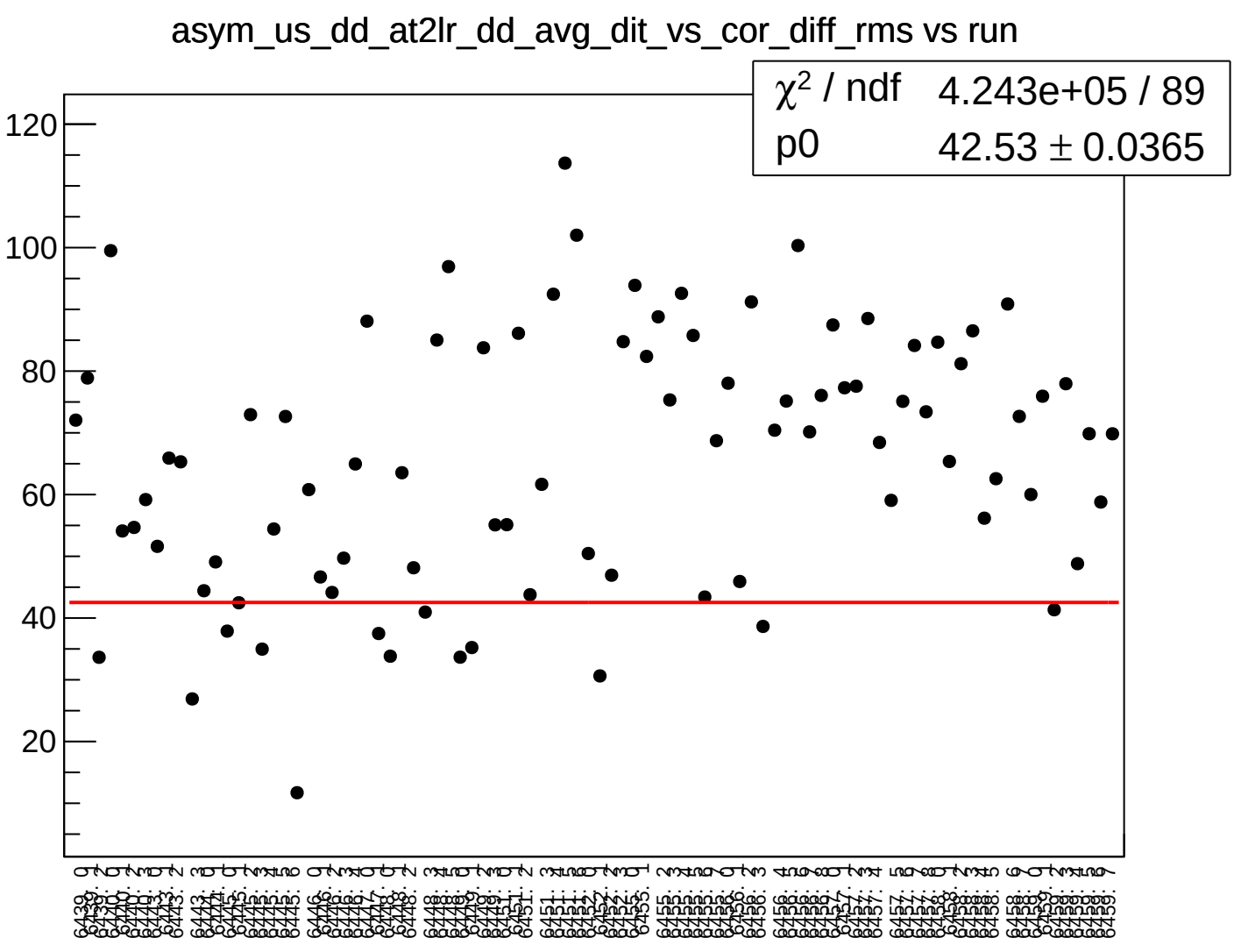

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.092e+06 / 89
p0 2.447e−11 ± 2.945e−14
1.2
1
0.8
0.6
0.4
0.2
0

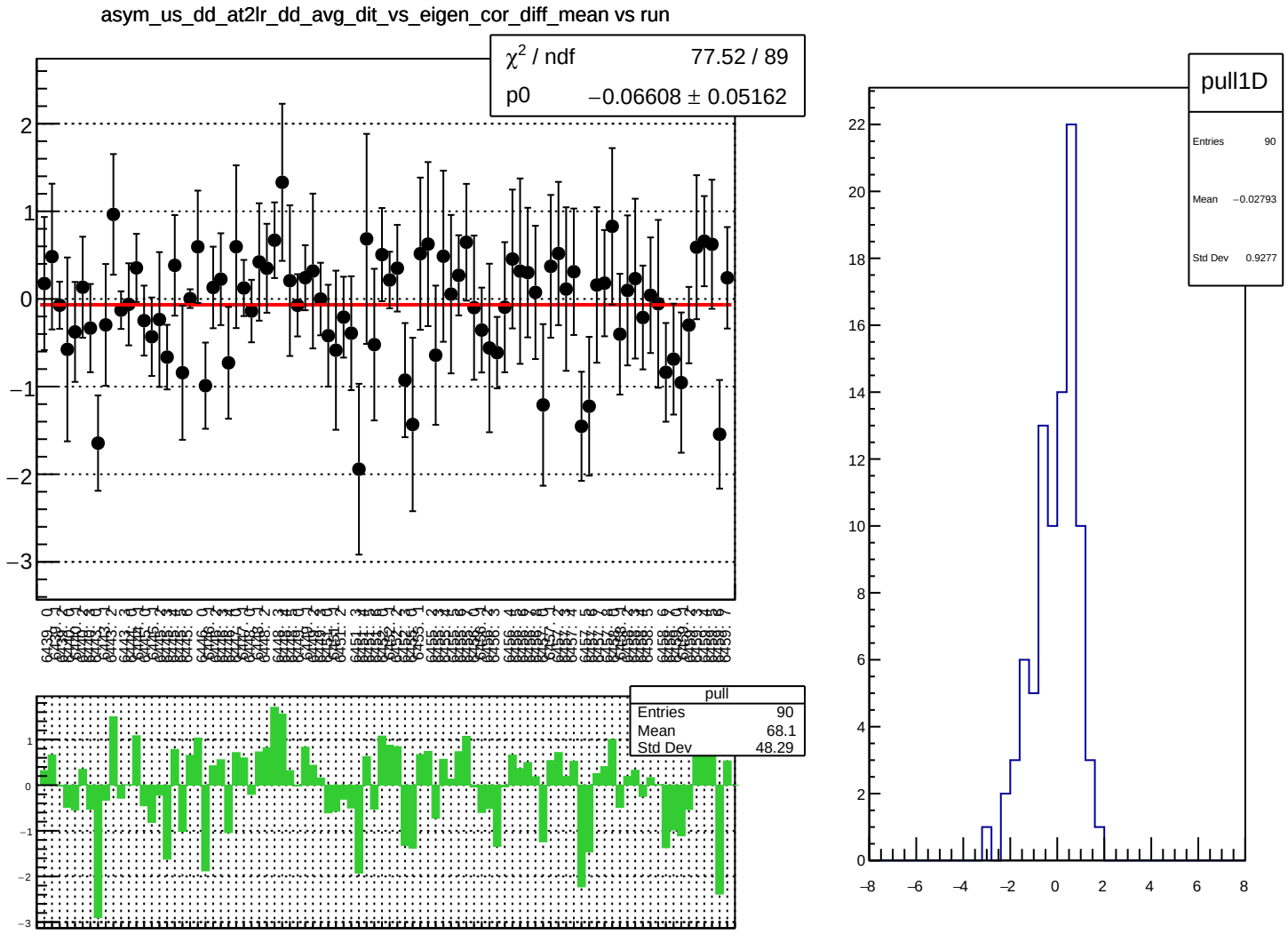
asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_mean vs run

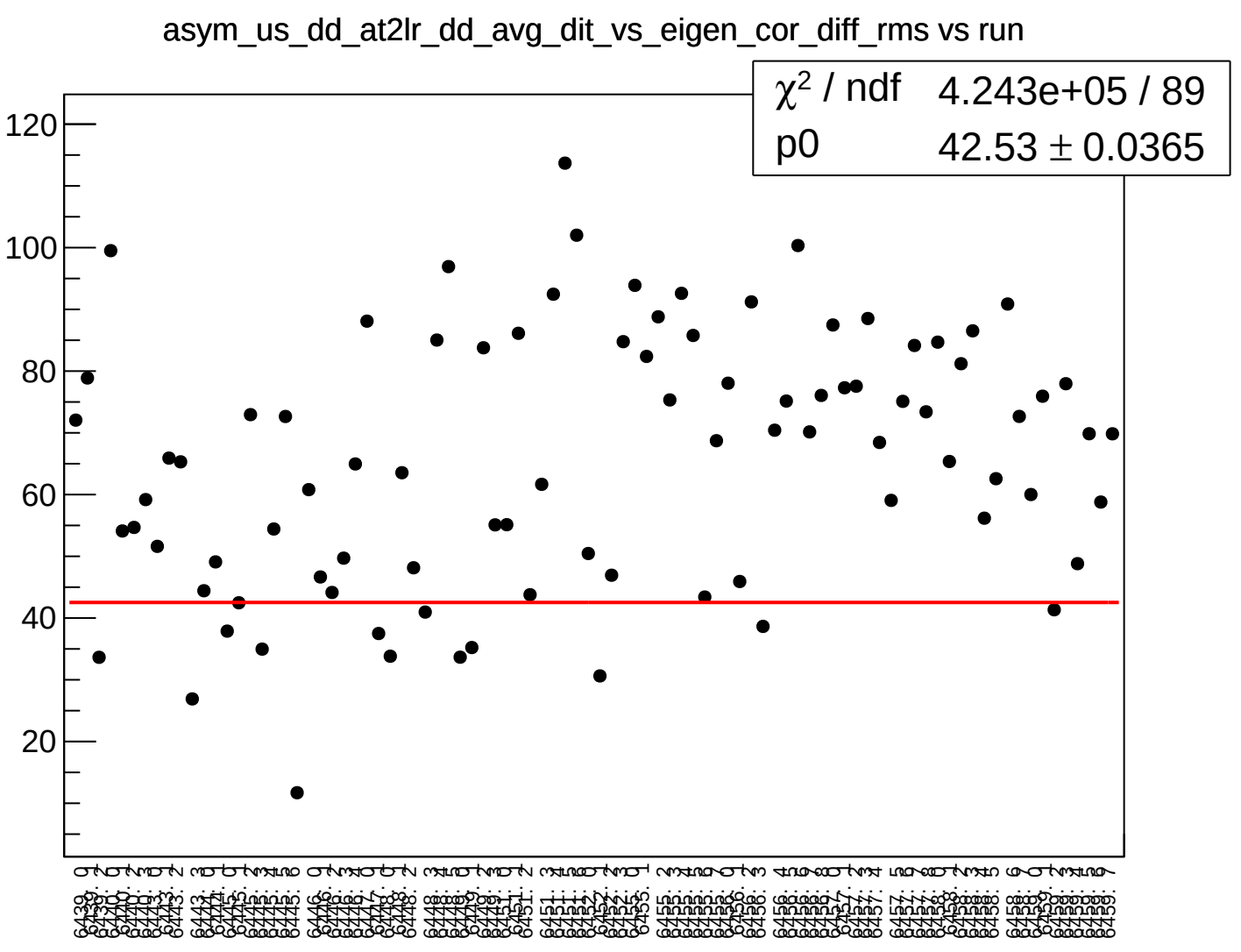


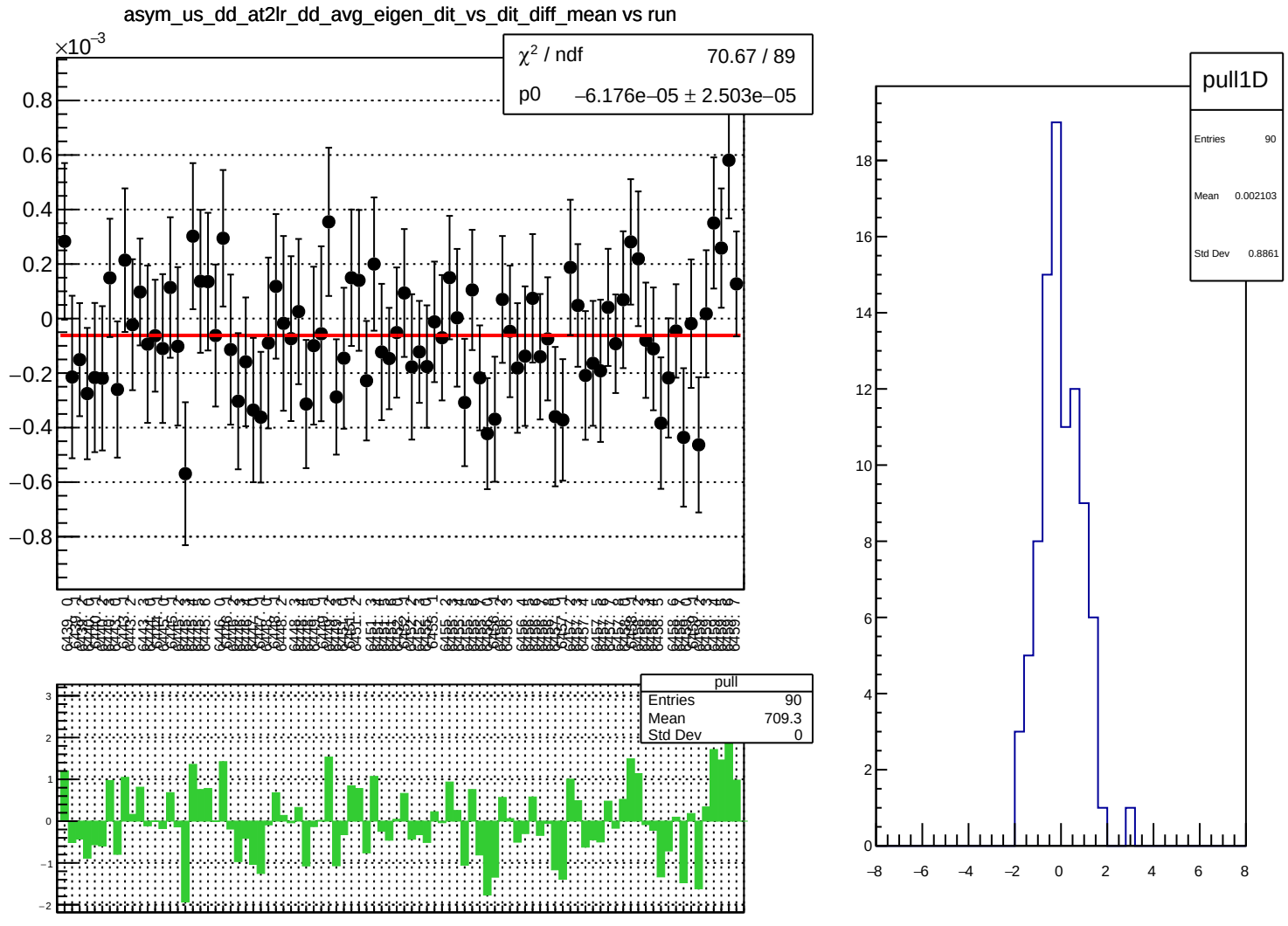


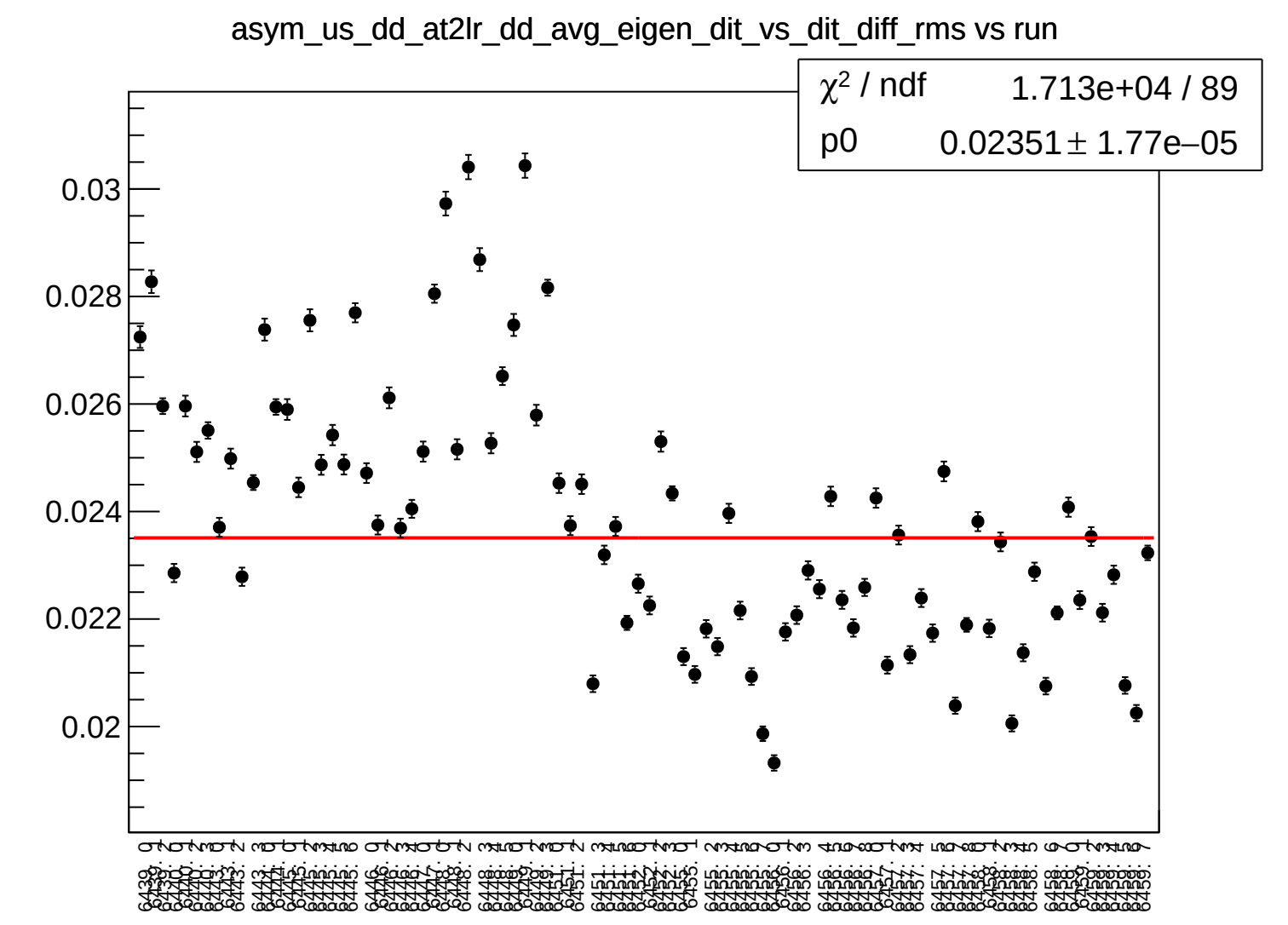


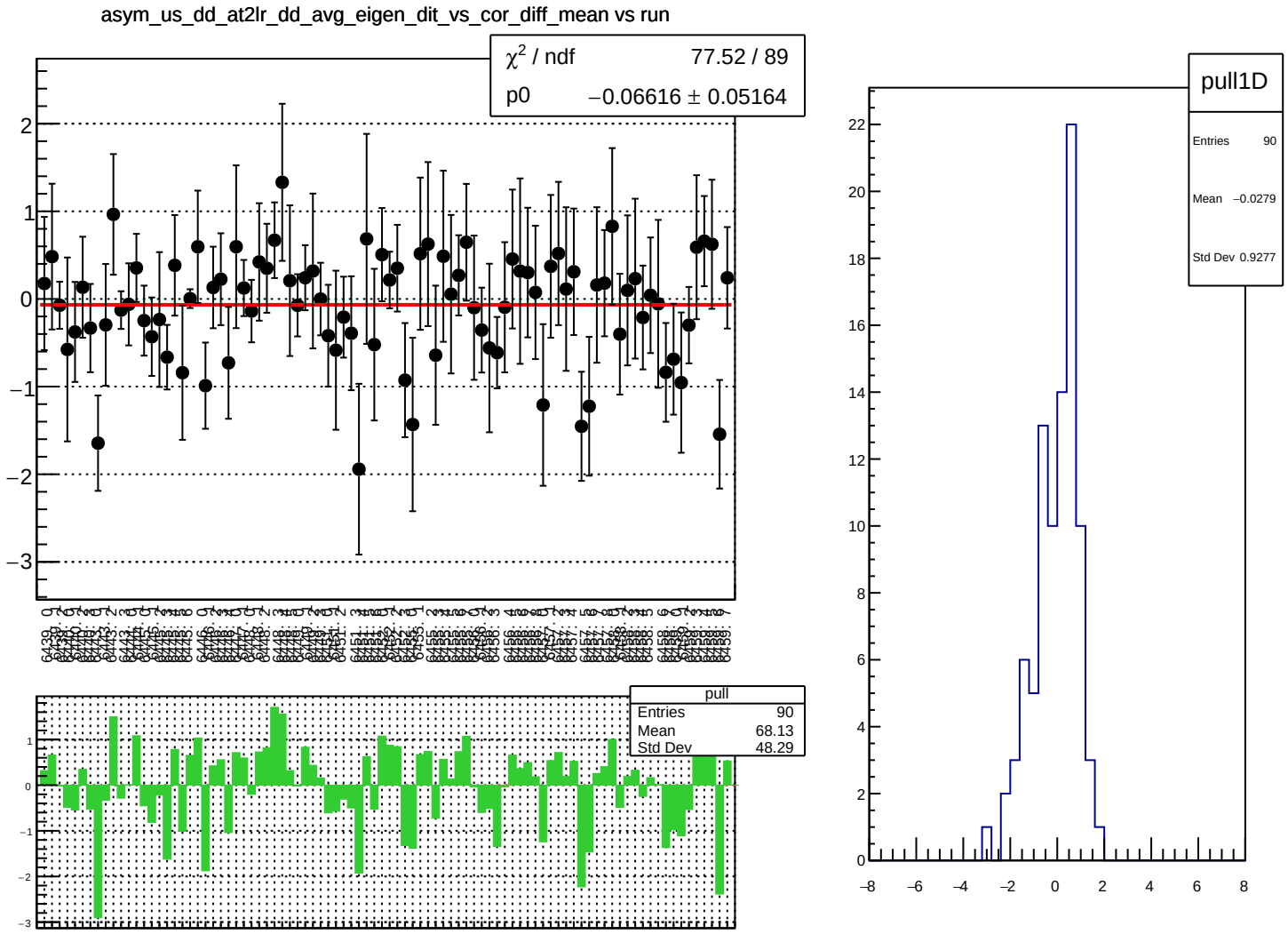

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.243e+05 / 89
p0 42.53 ± 0.0365
120
100
80
60
40
20

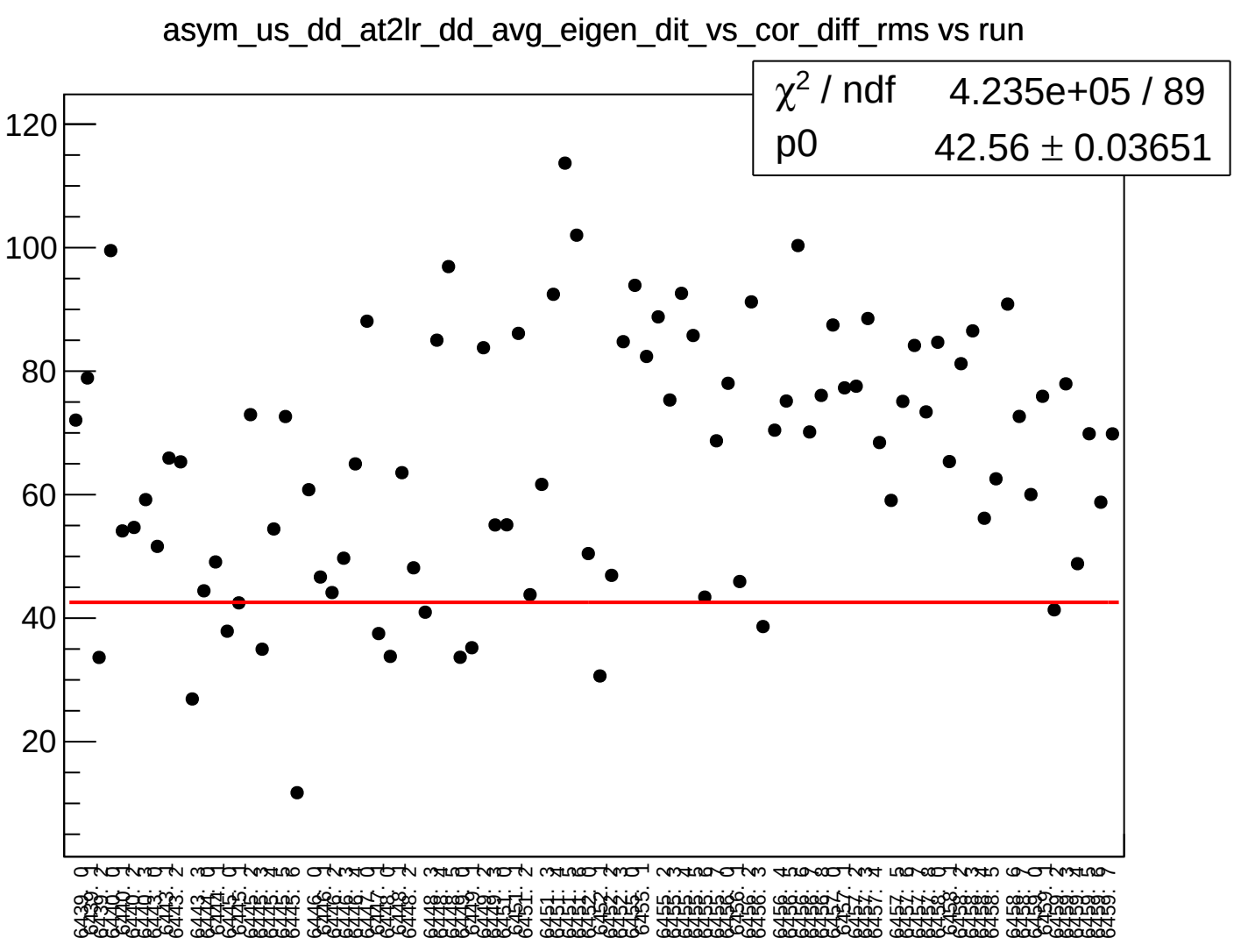

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.52 / 89
p0 −0.06608 ± 0.05162
pull
Entries 90
Mean 68.1
Std Dev 48.29
pull1D
Entries 90
Mean −0.02793
Std Dev 0.9277

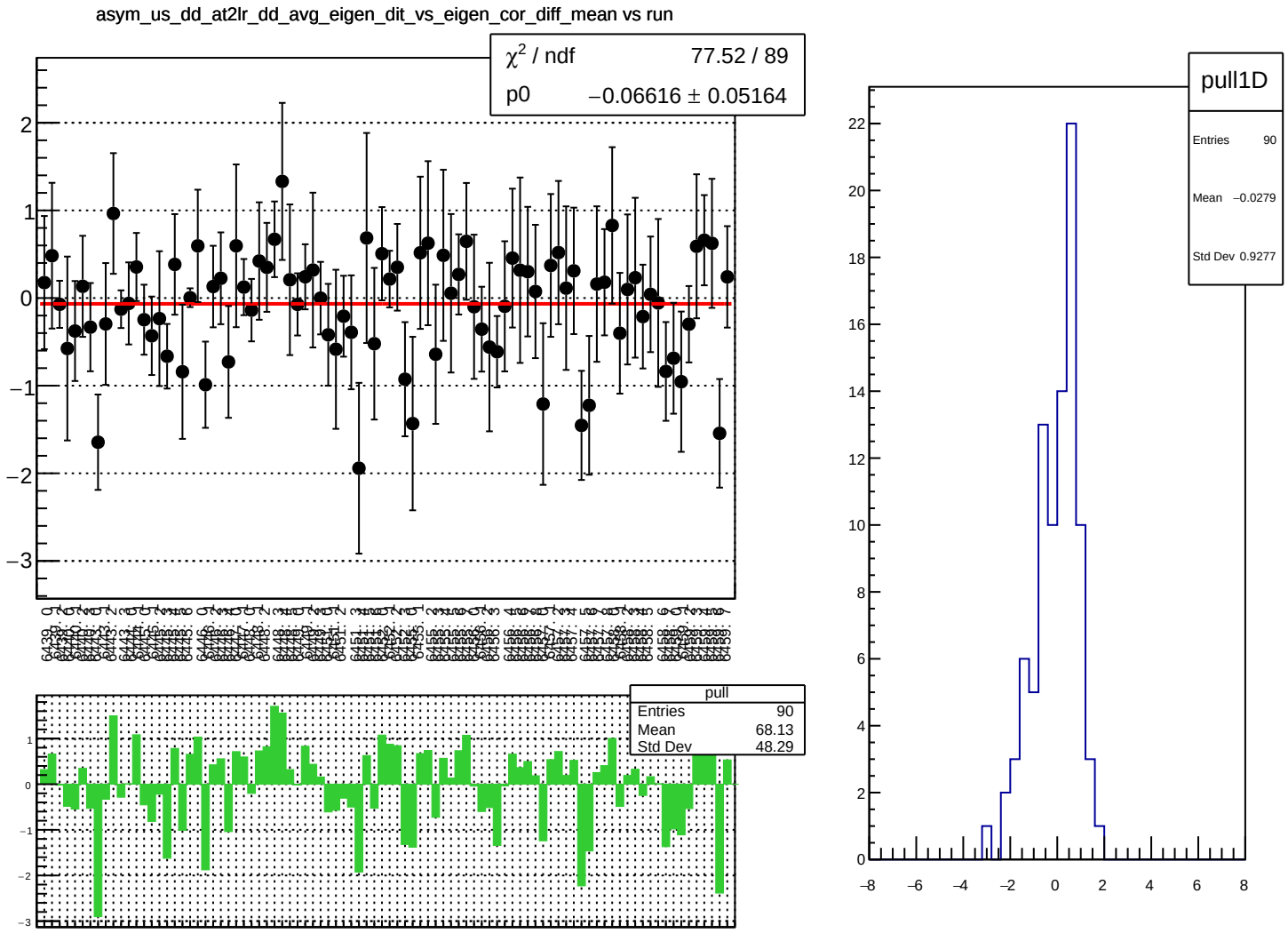

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.243e+05 / 89
p0 42.53 ± 0.0365
120
100
80
60
40
20

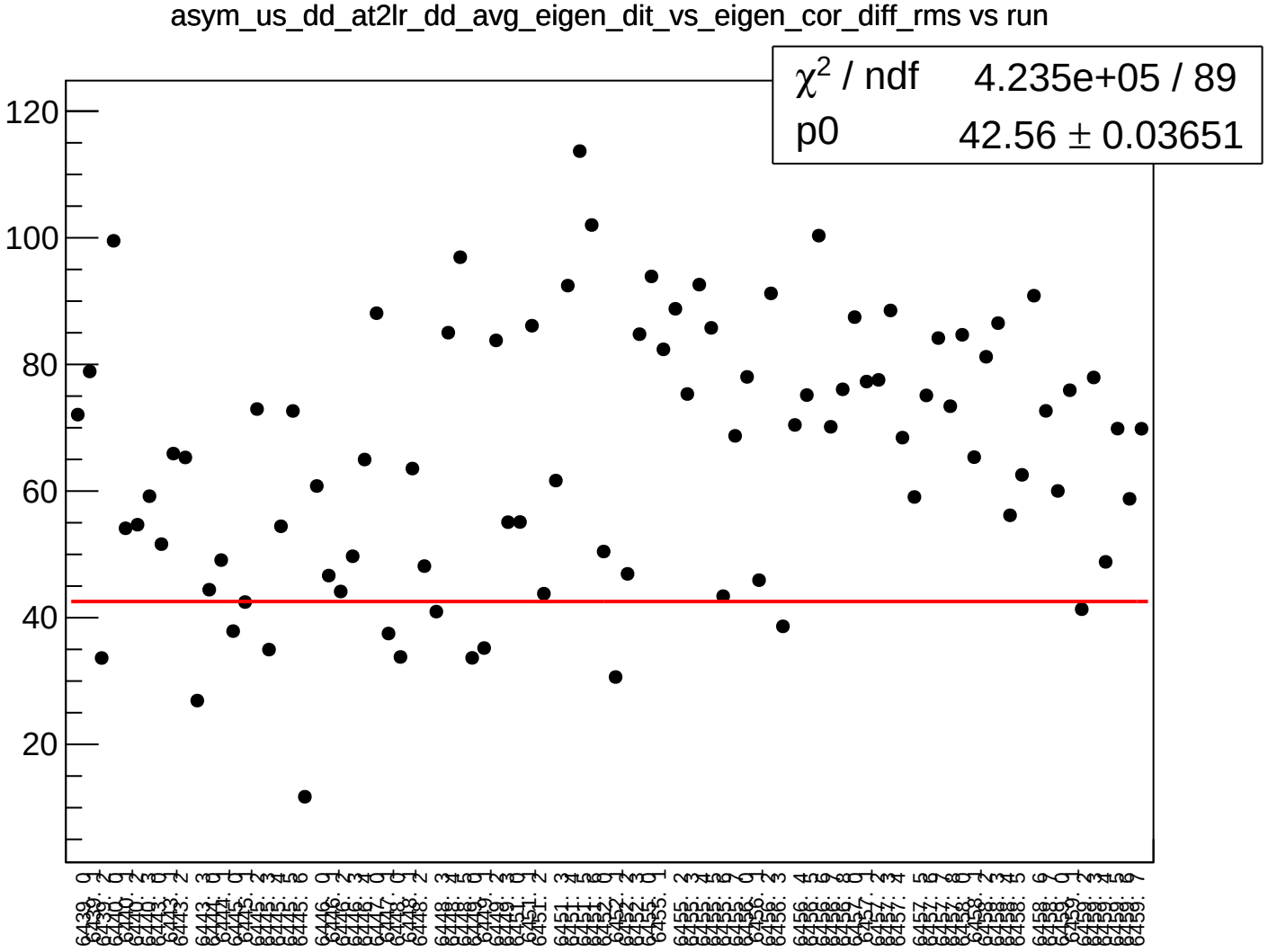

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 70.67 / 89
p0 −6.176e−05 ± 2.503e−05
pull
Entries 90
Mean 709.3
Std Dev 0
pull1D
Entries 90
Mean 0.002103
Std Dev 0.8861

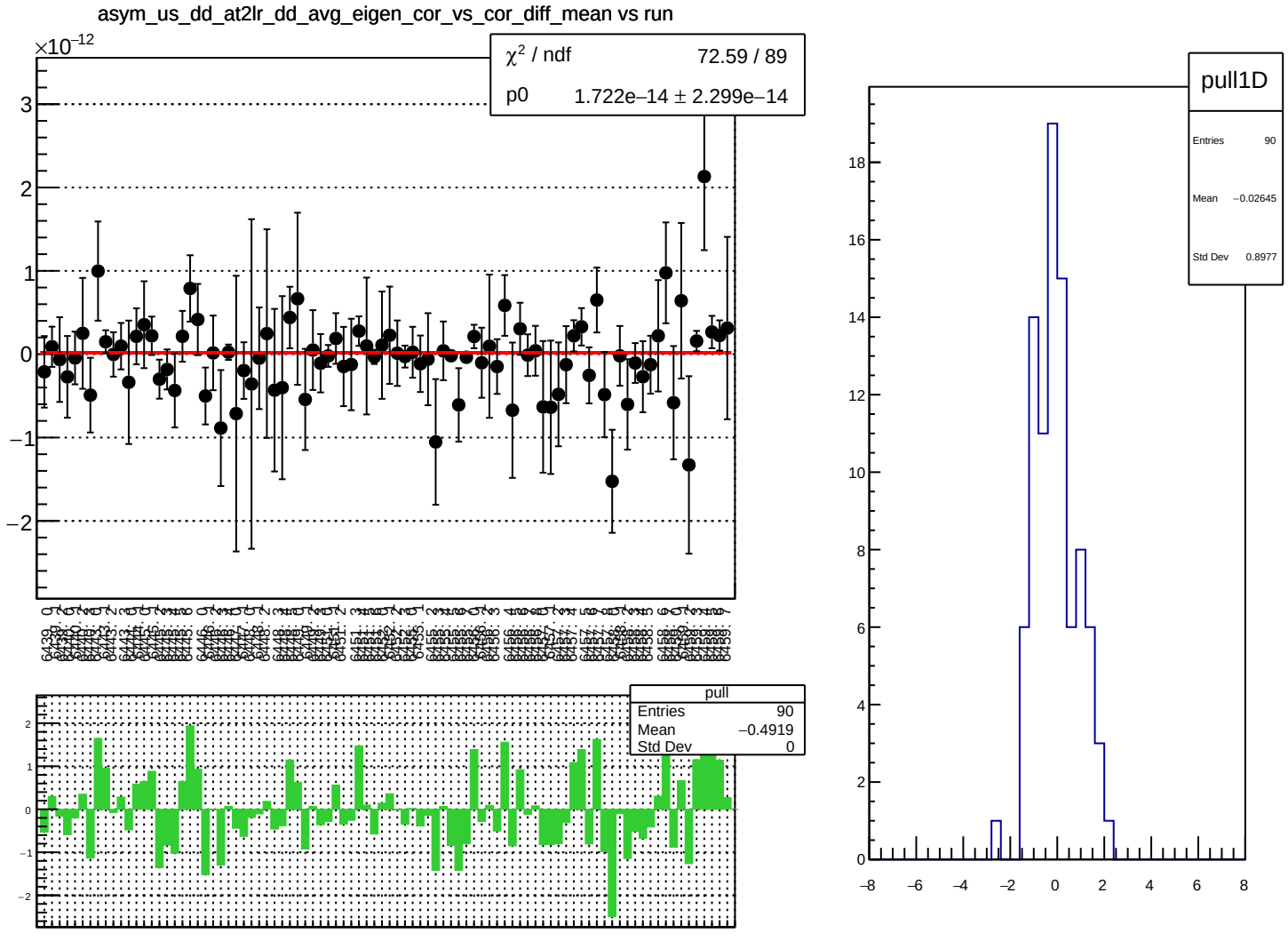

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.713e+04 / 89
p0 0.02351 ± 1.77e−05
0.03
0.028
0.026
0.024
0.022
0.02

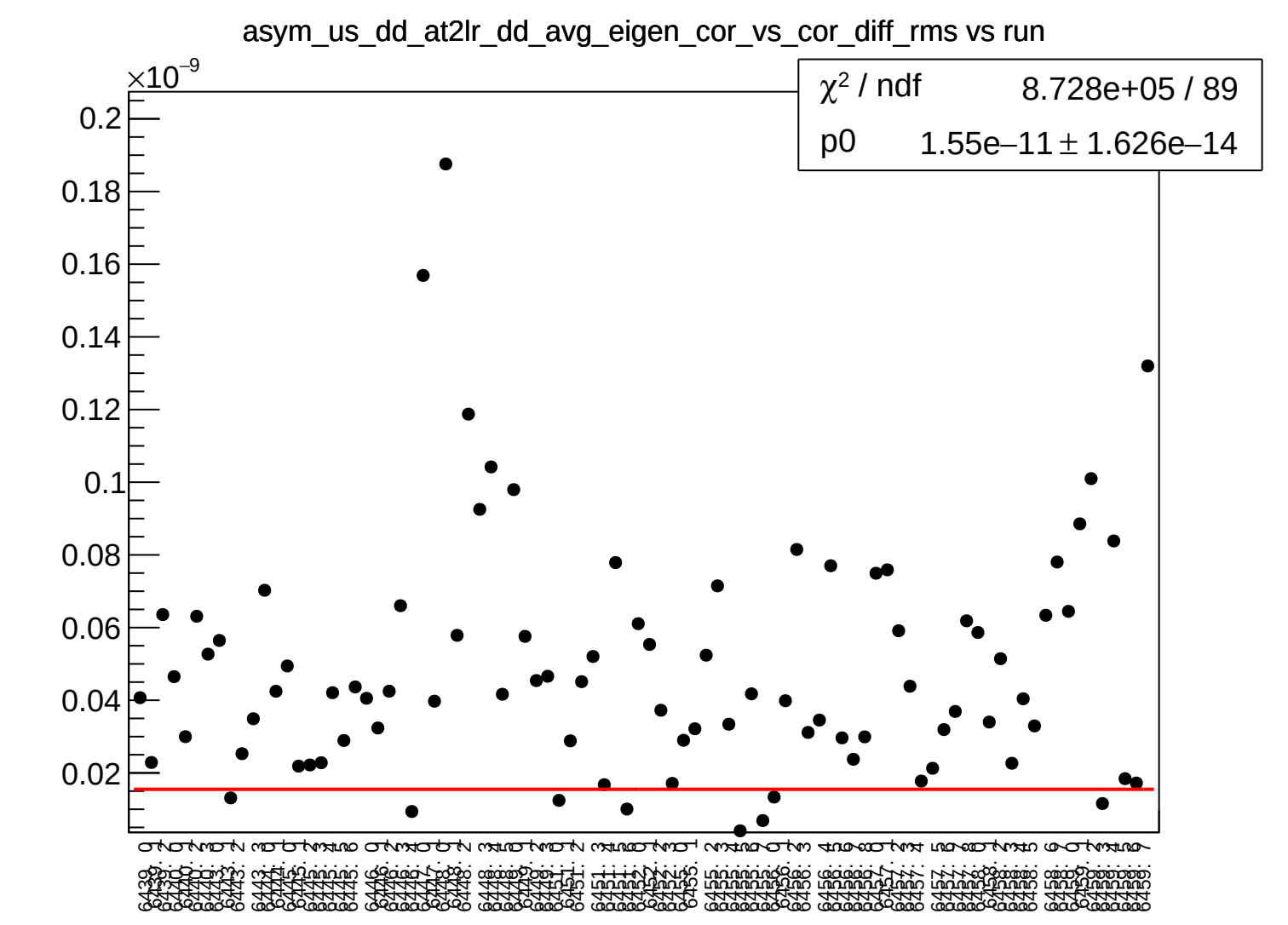

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.52 / 89
p0 −0.06616 ± 0.05164
pull
Entries 90
Mean 68.13
Std Dev 48.29
pull1D
Entries 90
Mean −0.0279
Std Dev 0.9277

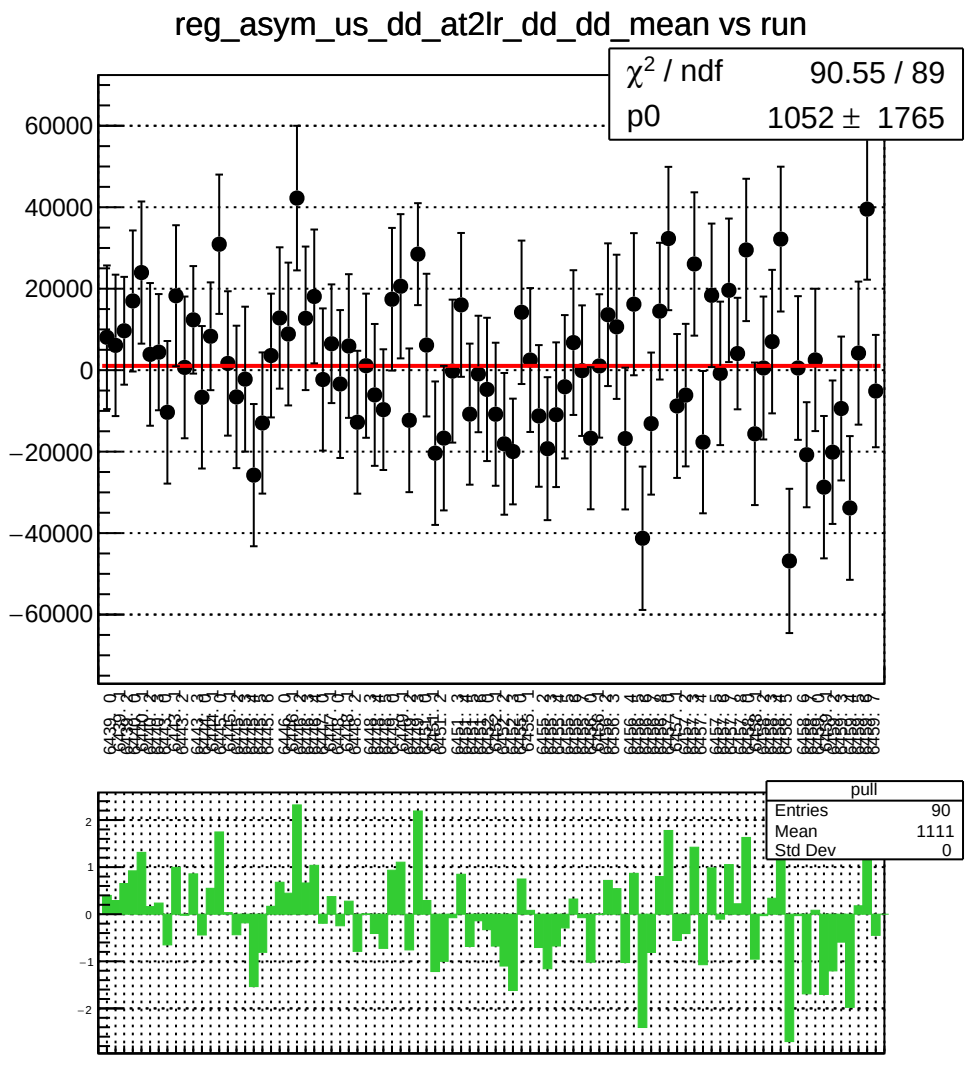

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 4.235e+05 / 89
p0 42.56 ± 0.03651
120
100
80
60
40
20

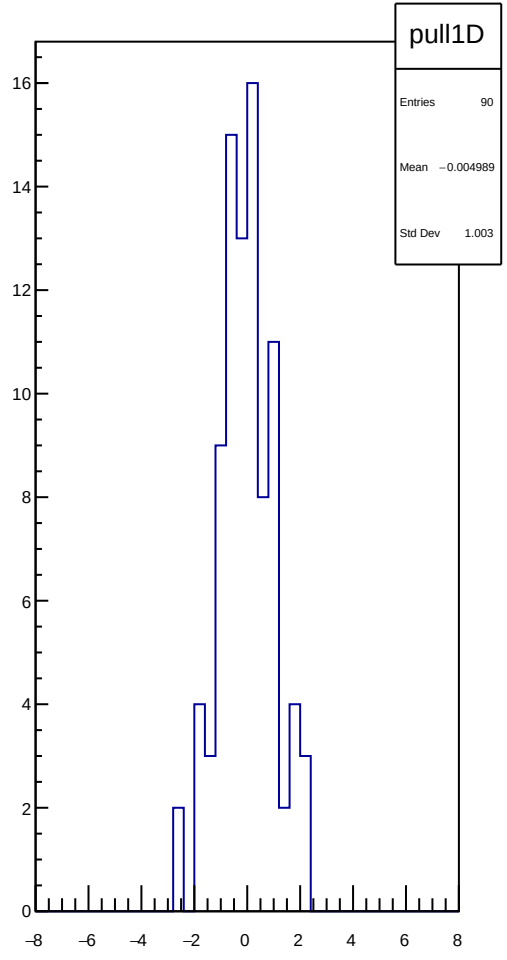

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.52 / 89
p0 −0.06616 ± 0.05164
pull
Entries 90
Mean 68.13
Std Dev 48.29
pull1D
Entries 90
Mean −0.0279
Std Dev 0.9277

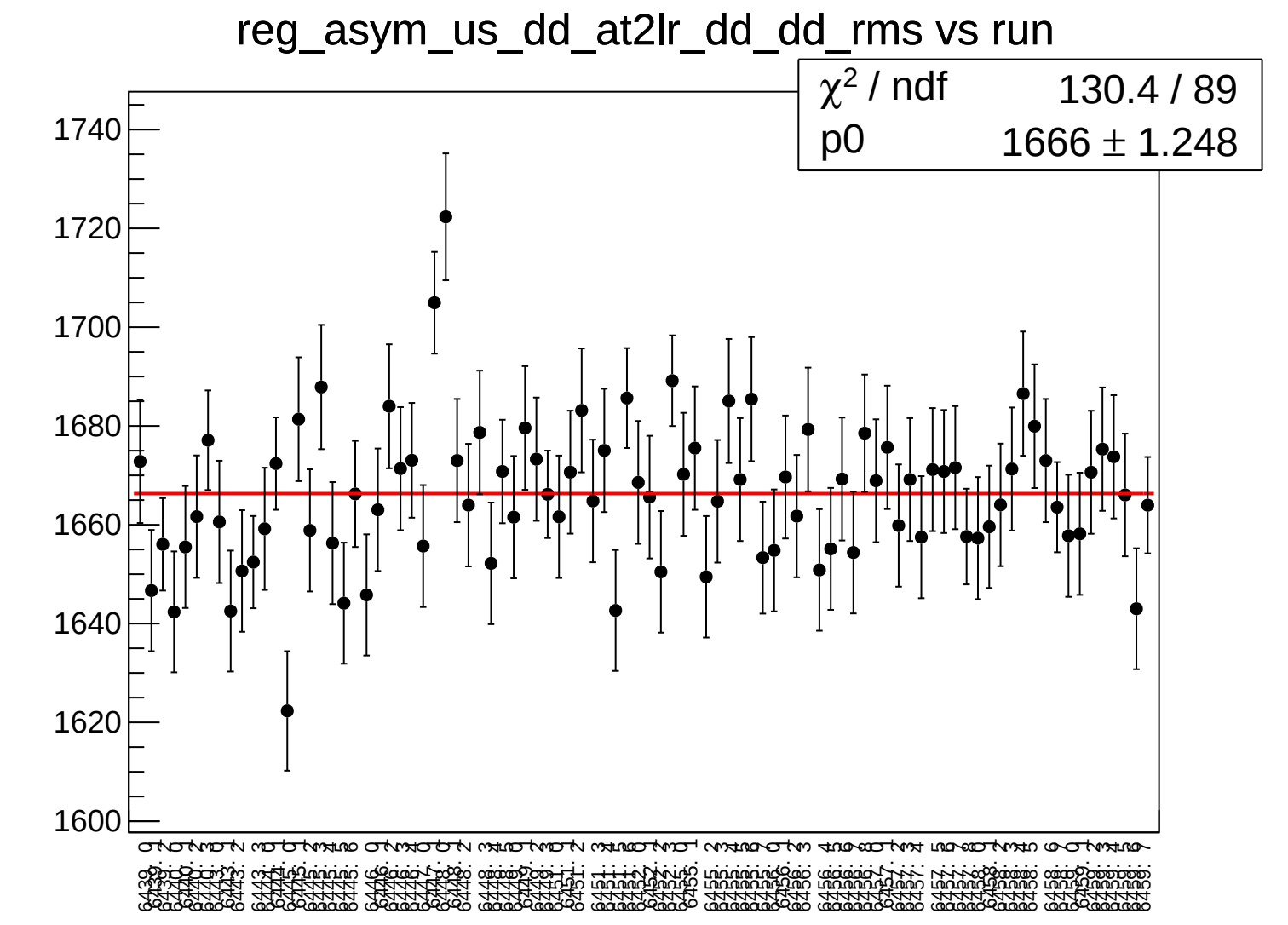

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 4.235e+05 / 89
p0 42.56 ± 0.03651
120
100
80
60
40
20

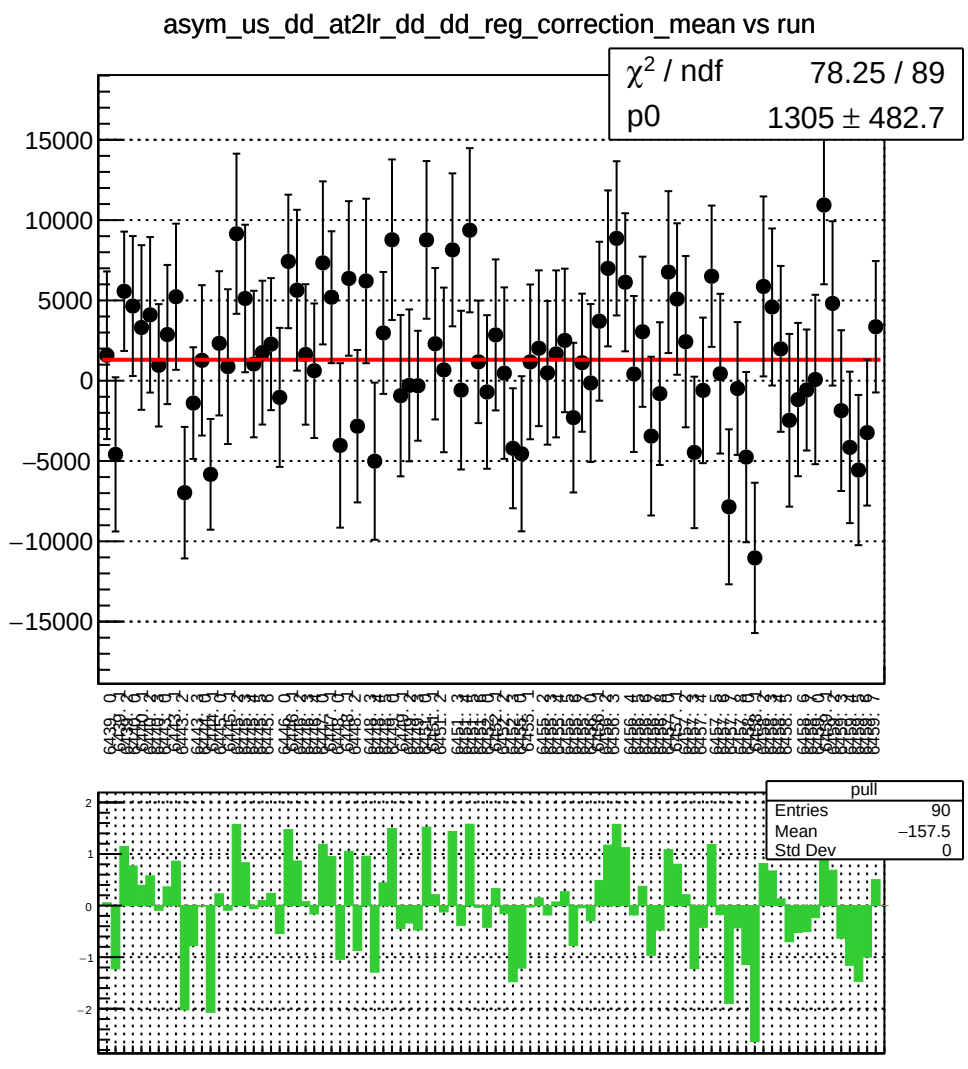

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 72.59 / 89
p0 1.722e−14 ± 2.299e−14
pull
Entries 90
Mean −0.4919
Std Dev 0
pull1D
Entries 90
Mean −0.02645
Std Dev 0.8977

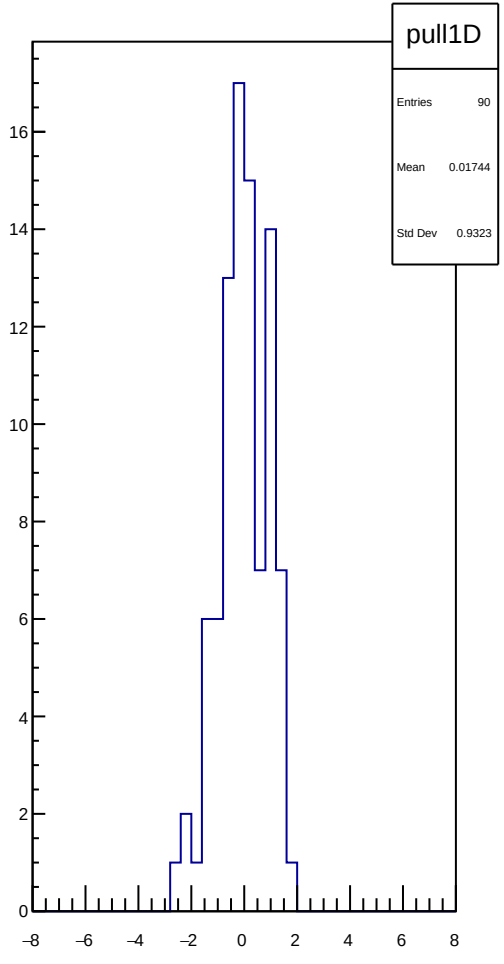

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.728e+05 / 89
p0 1.55e−11 ± 1.626e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

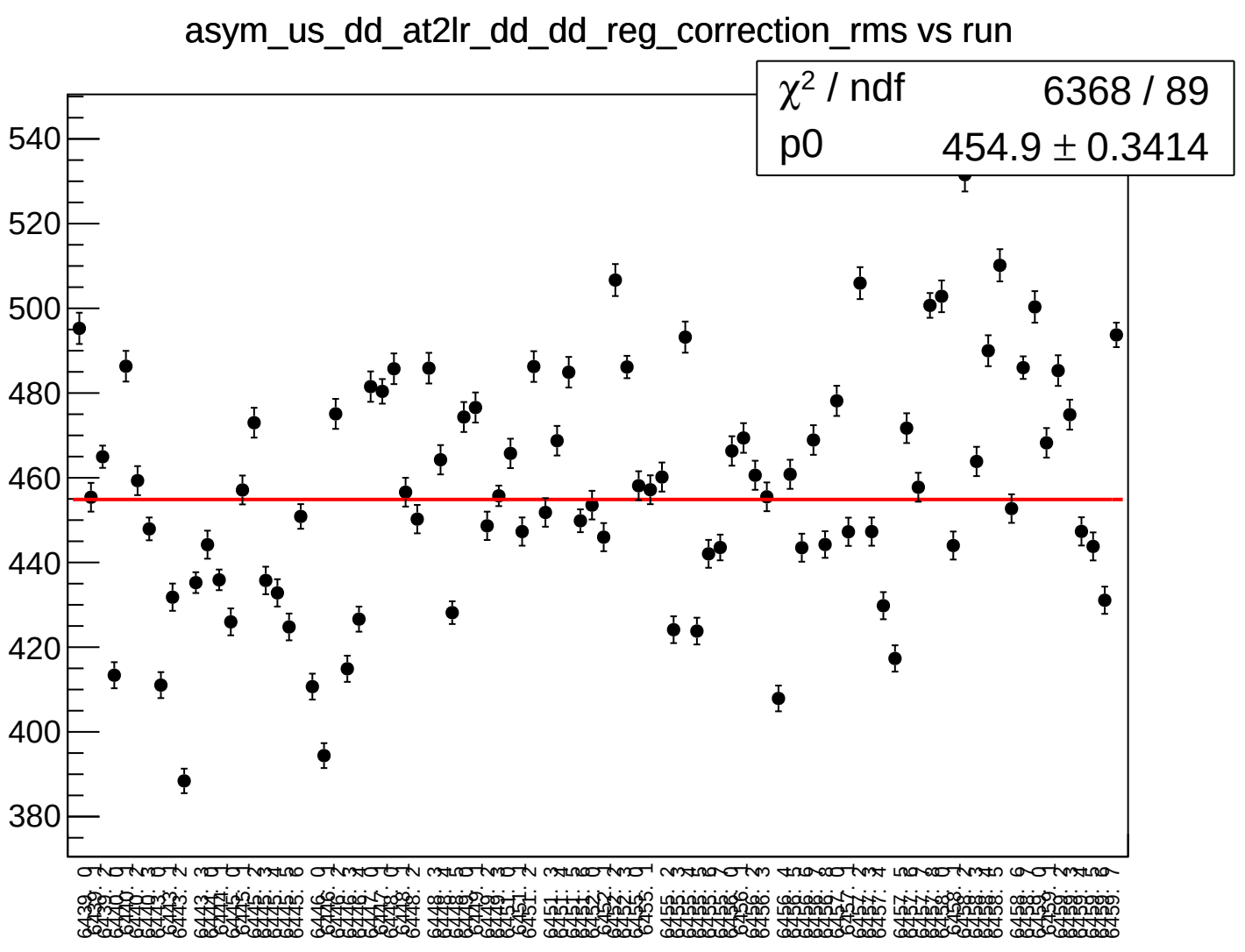

reg_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 90.55 / 89
p0 1052 ± 1765
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 1111
Std Dev 0
2
1
0
−1
−2

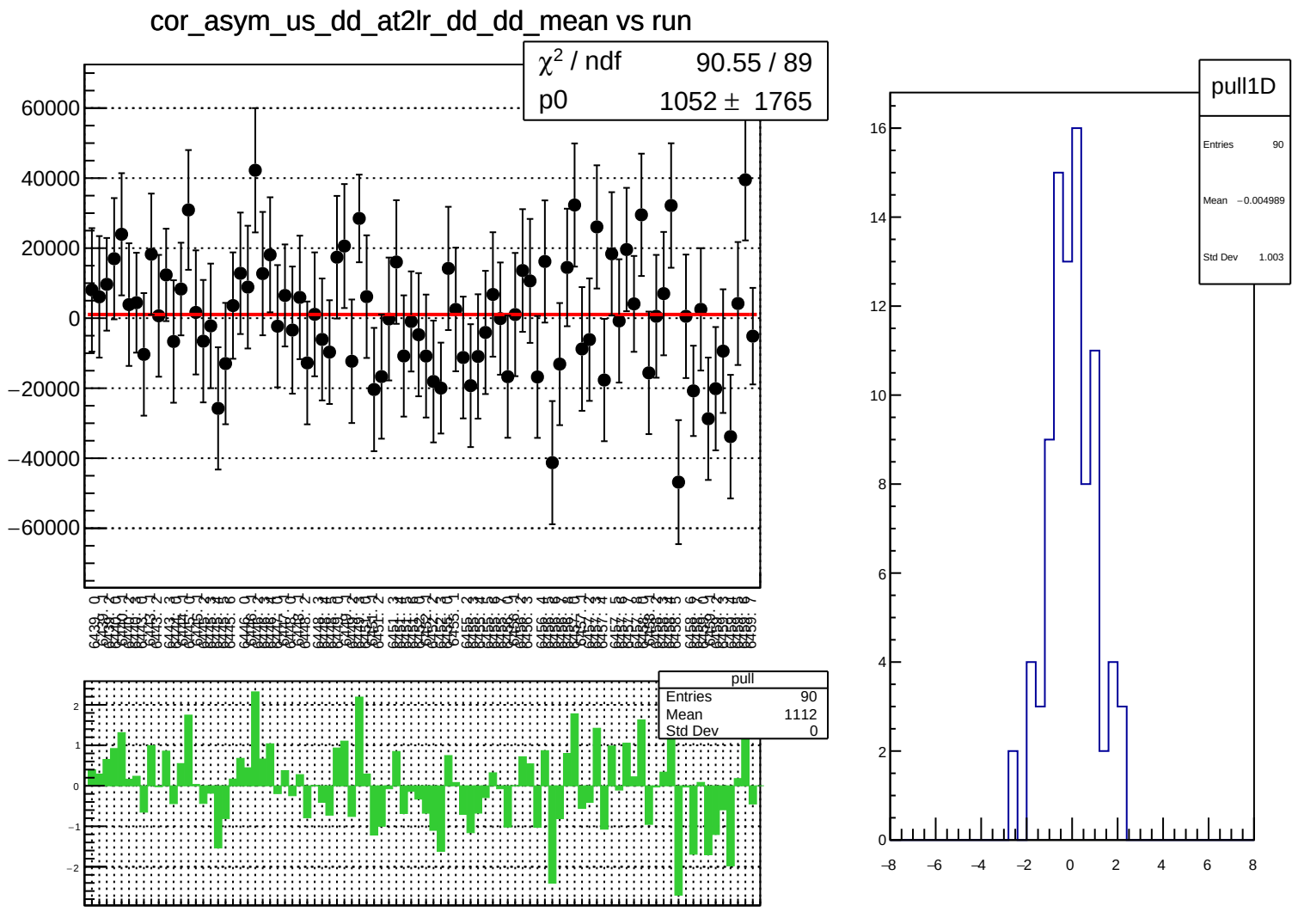

pull1D
Entries 90
Mean −0.004989
Std Dev 1.003
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

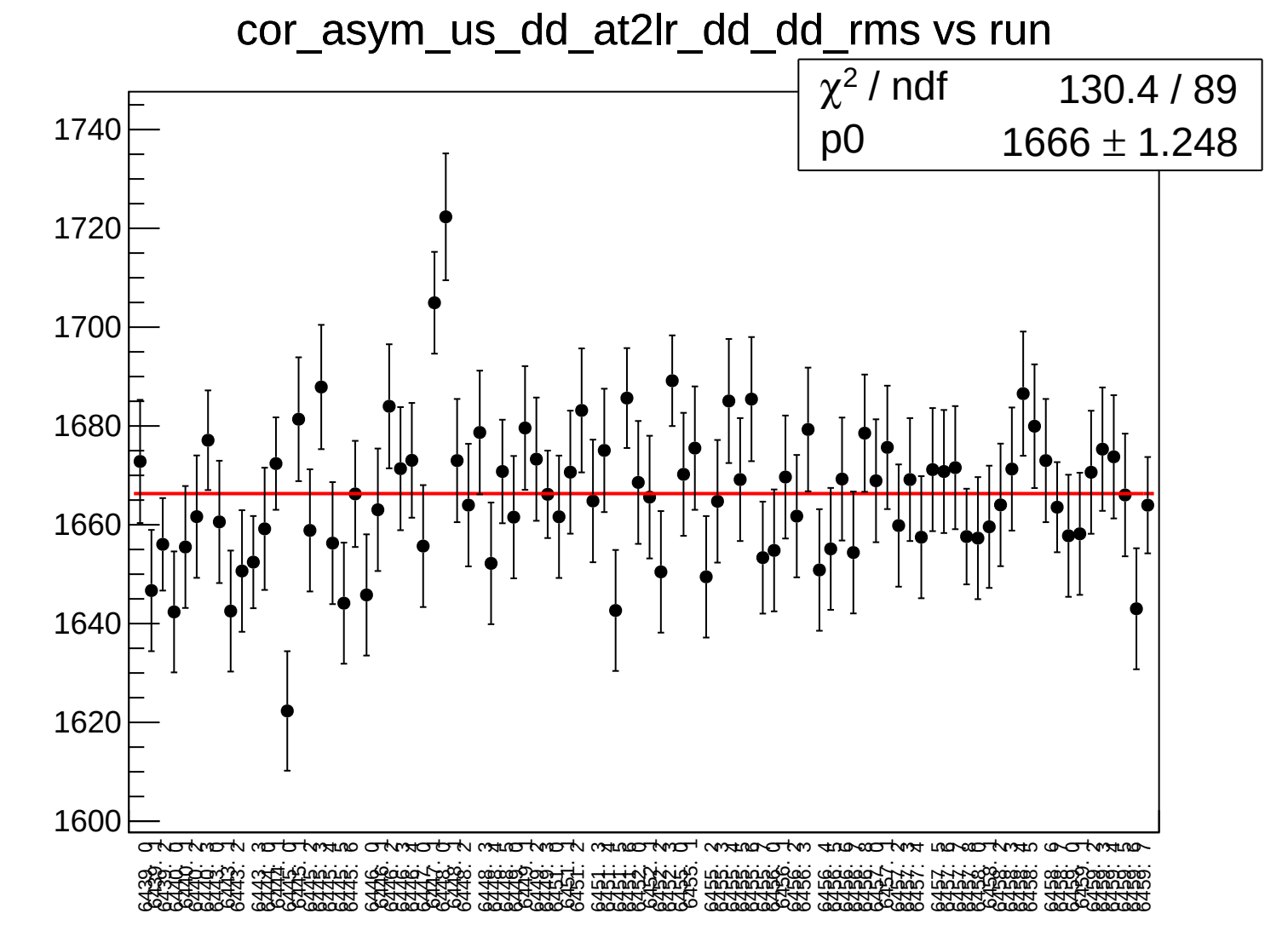

reg_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 130.4 / 89
p0 1666 ± 1.248
1740
1720
1700
1680
1660
1640
1620
1600

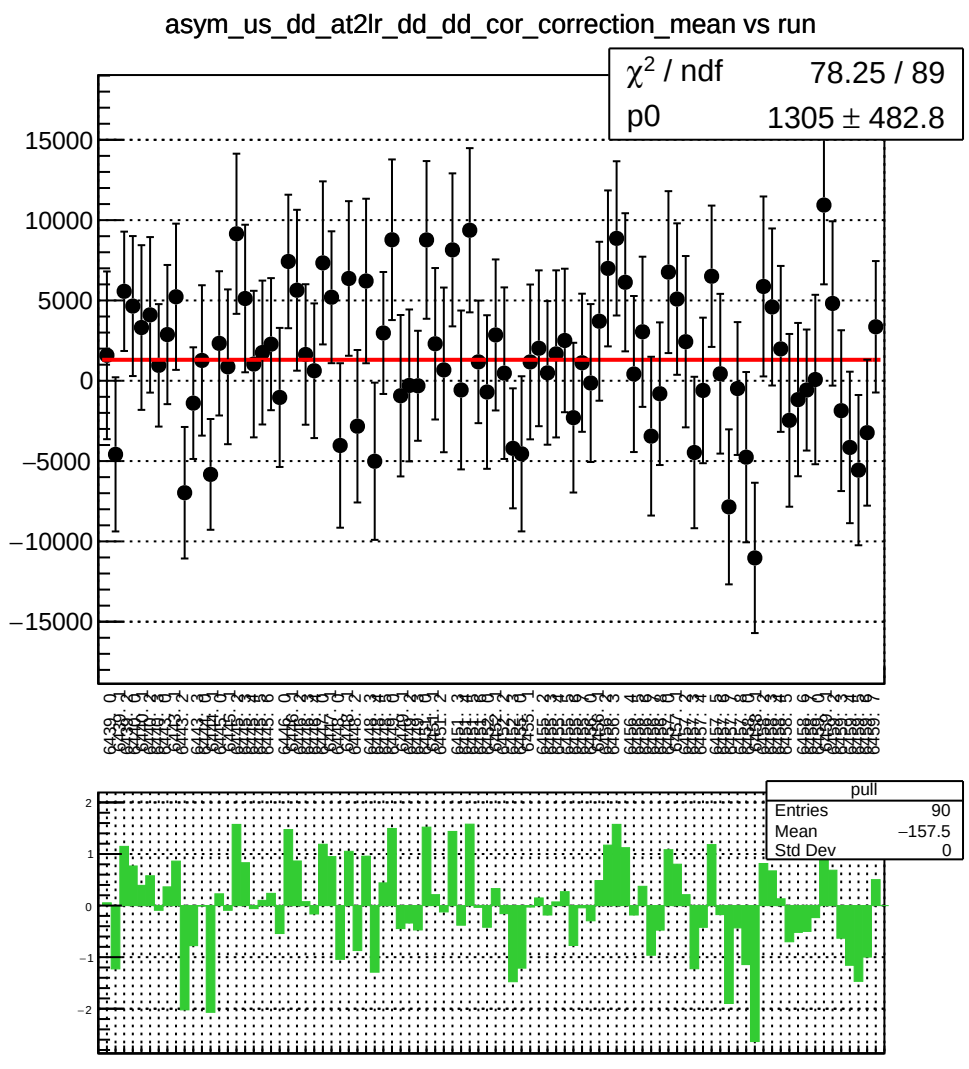

asym_us_dd_at2lr_dd_dd_reg_correction_mean vs run
χ² / ndf 78.25 / 89
p0 1305 ± 482.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 90
Mean −157.5
Std Dev 0
2
1
0
−1
−2

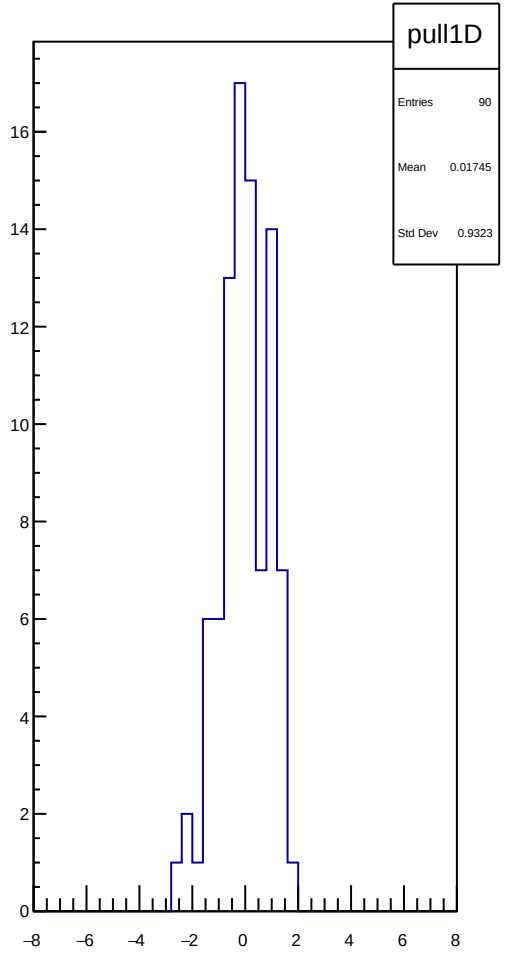

pull1D
Entries 90
Mean 0.01744
Std Dev 0.9323
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

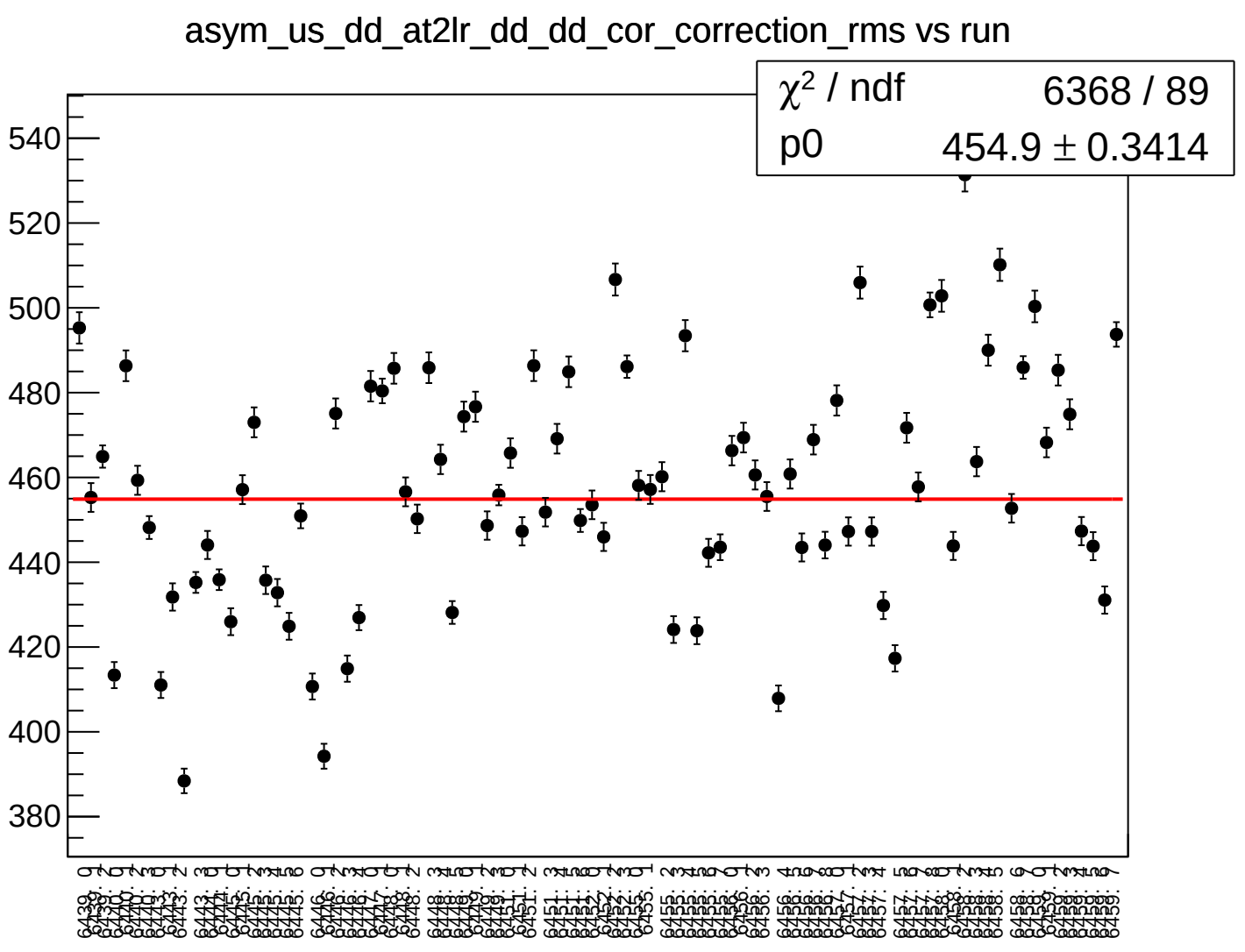

asym_us_dd_at2lr_dd_dd_reg_correction_rms vs run
χ² / ndf 6368 / 89
p0 454.9 ± 0.3414
540
520
500
480
460
440
420
400
380

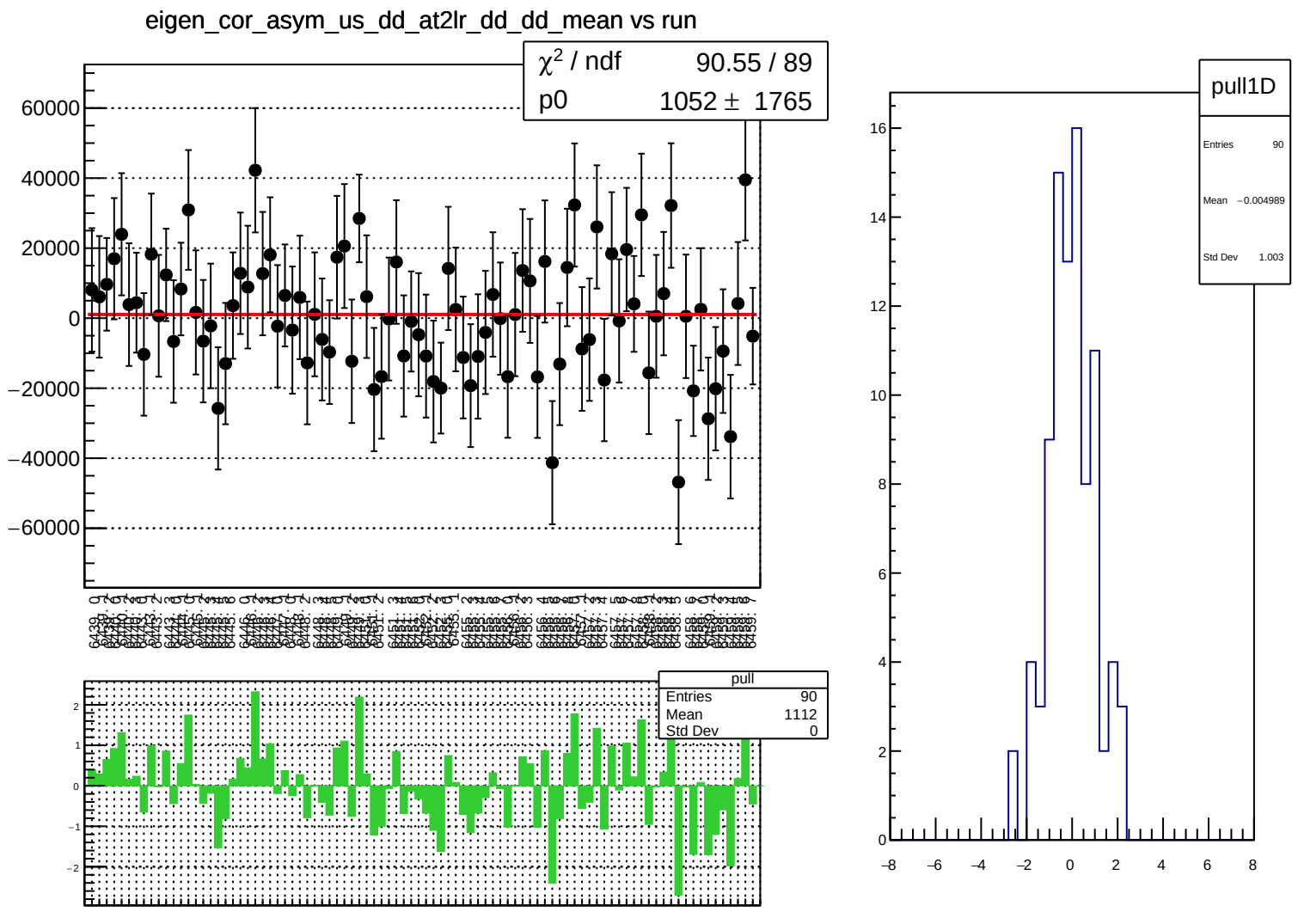

cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 90.55 / 89
p0 1052 ± 1765
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 1112
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.004989
Std Dev 1.003
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

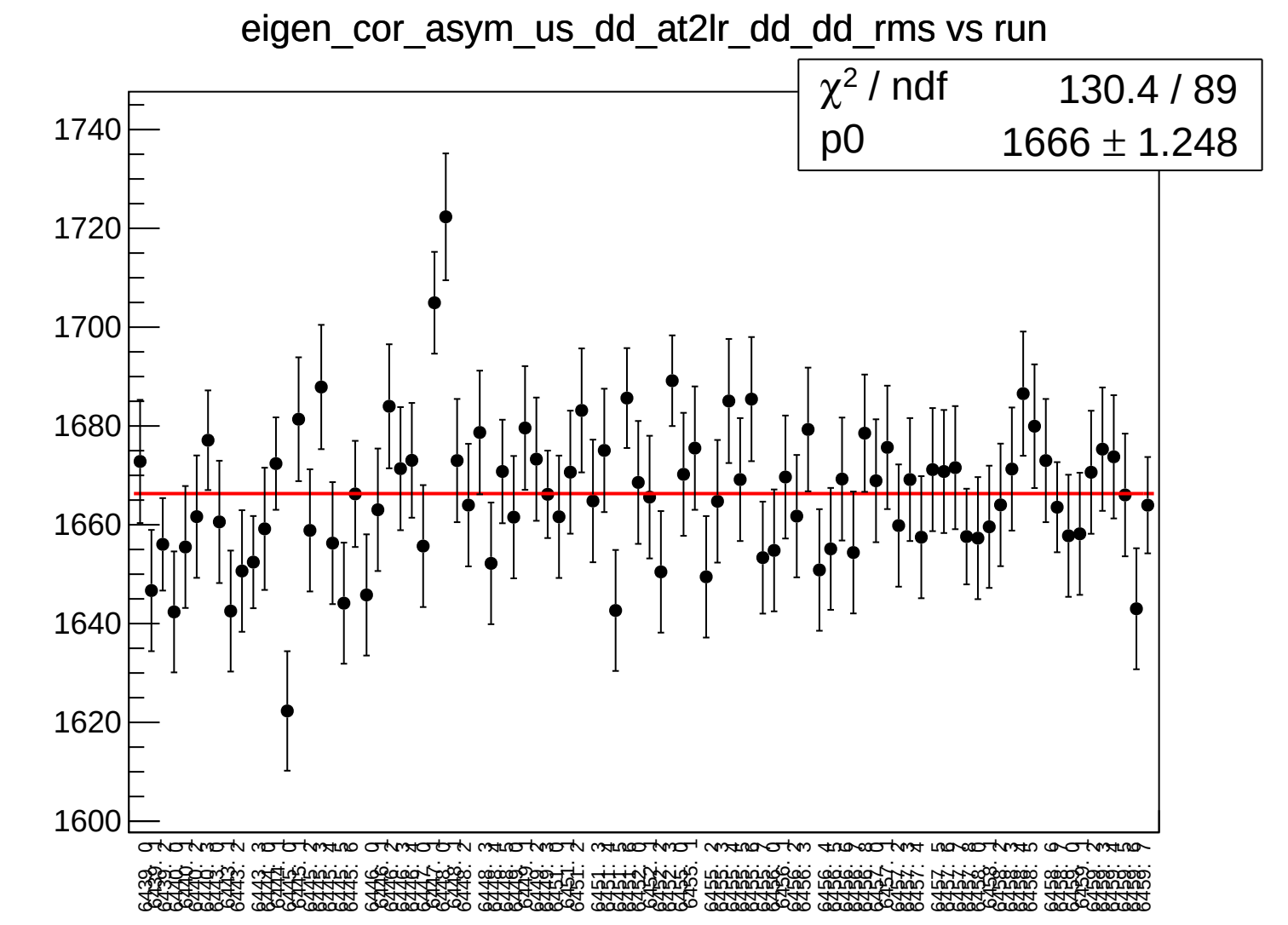

cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ^2 / ndf 130.4 / 89
p0 1666 ± 1.248
1740
1720
1700
1680
1660
1640
1620
1600

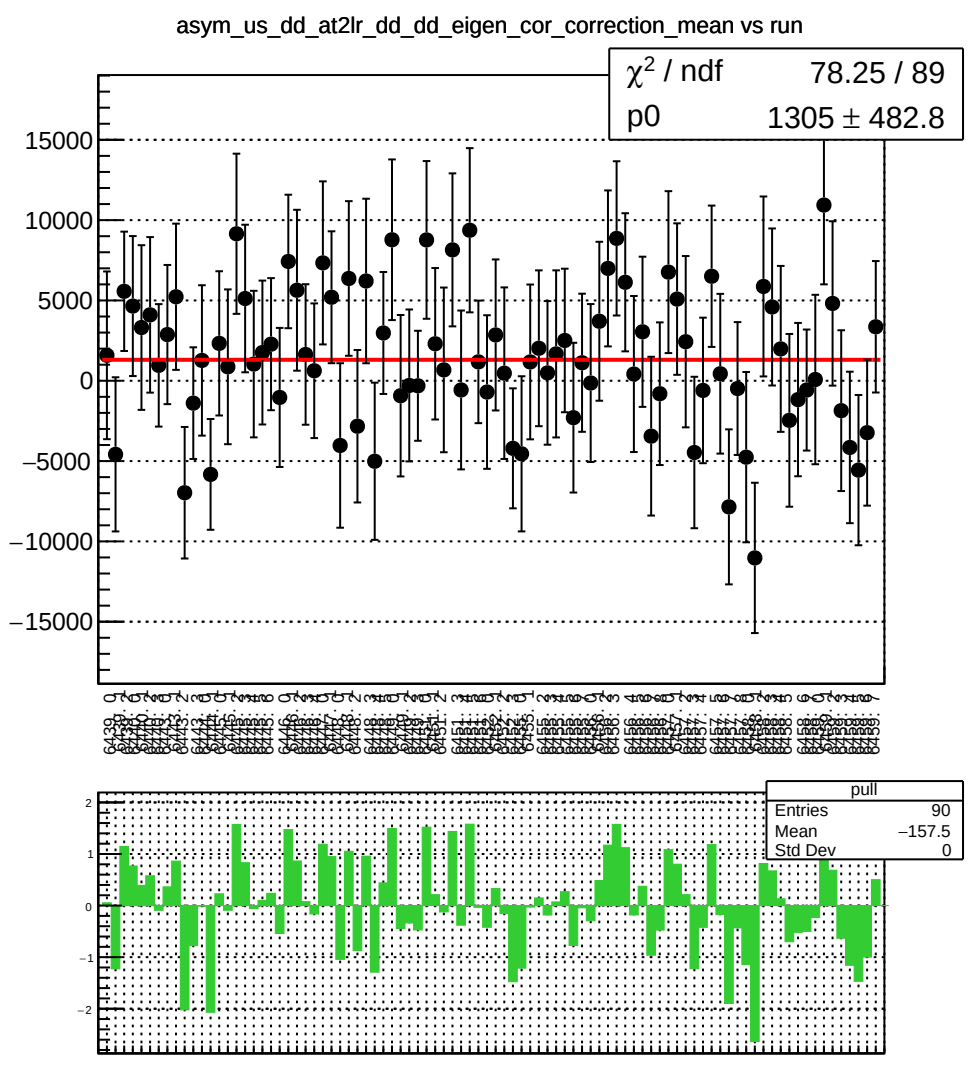

asym_us_dd_at2lr_dd_dd_cor_correction_mean vs run
χ² / ndf 78.25 / 89
p0 1305 ± 482.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 90
Mean −157.5
Std Dev 0
2
1
0
−1
−2

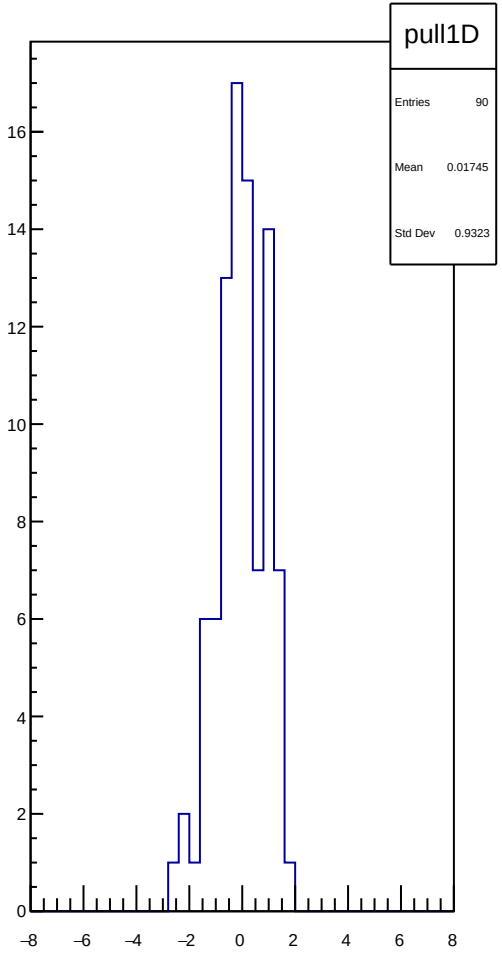

pull1D
Entries 90
Mean 0.01745
Std Dev 0.9323
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

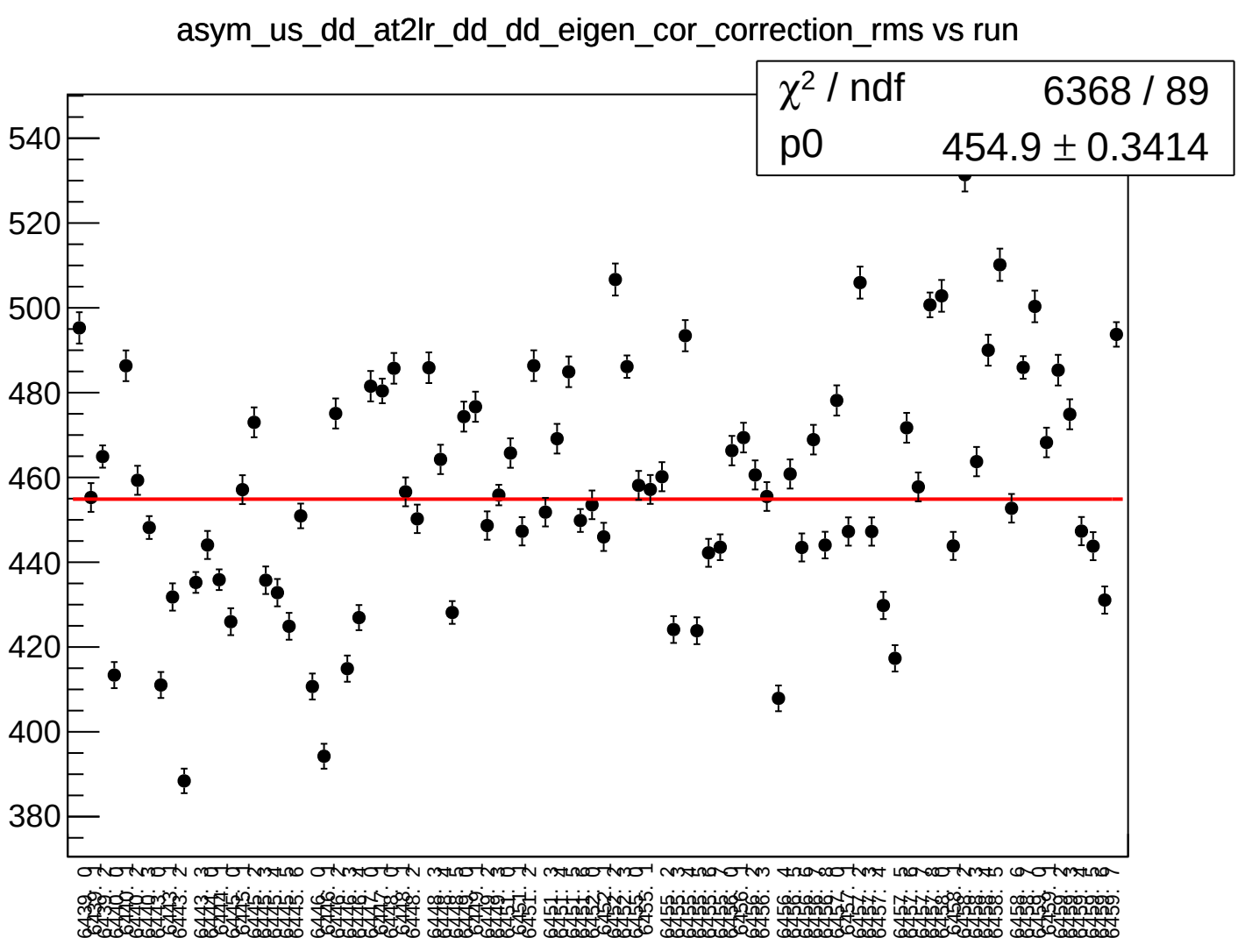

asym_us_dd_at2lr_dd_dd_cor_correction_rms vs run
χ² / ndf 6368 / 89
p0 454.9 ± 0.3414
540
520
500
480
460
440
420
400
380

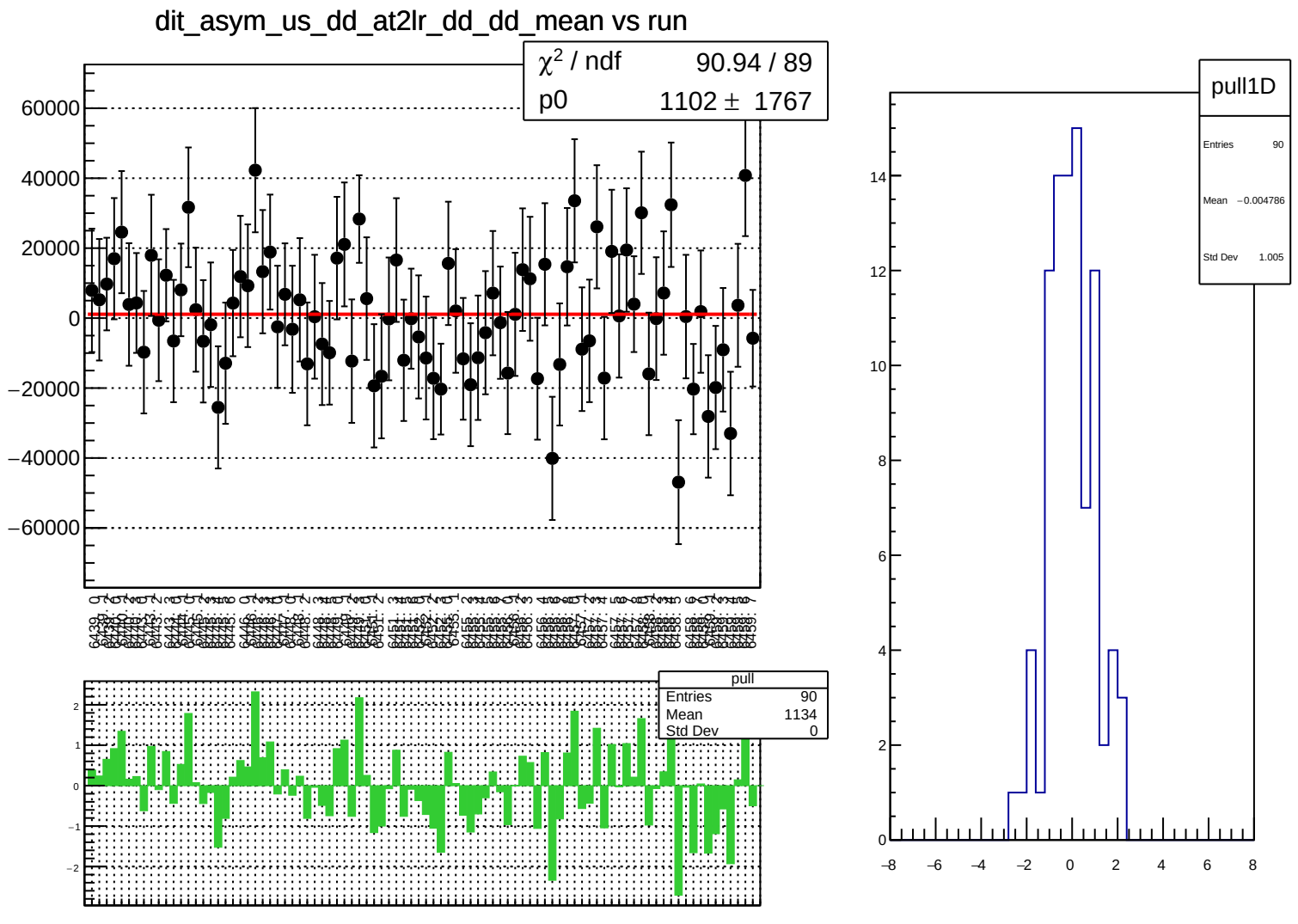

eigen_cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 90.55 / 89
p0 1052 ± 1765
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 1112
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.004989
Std Dev 1.003
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

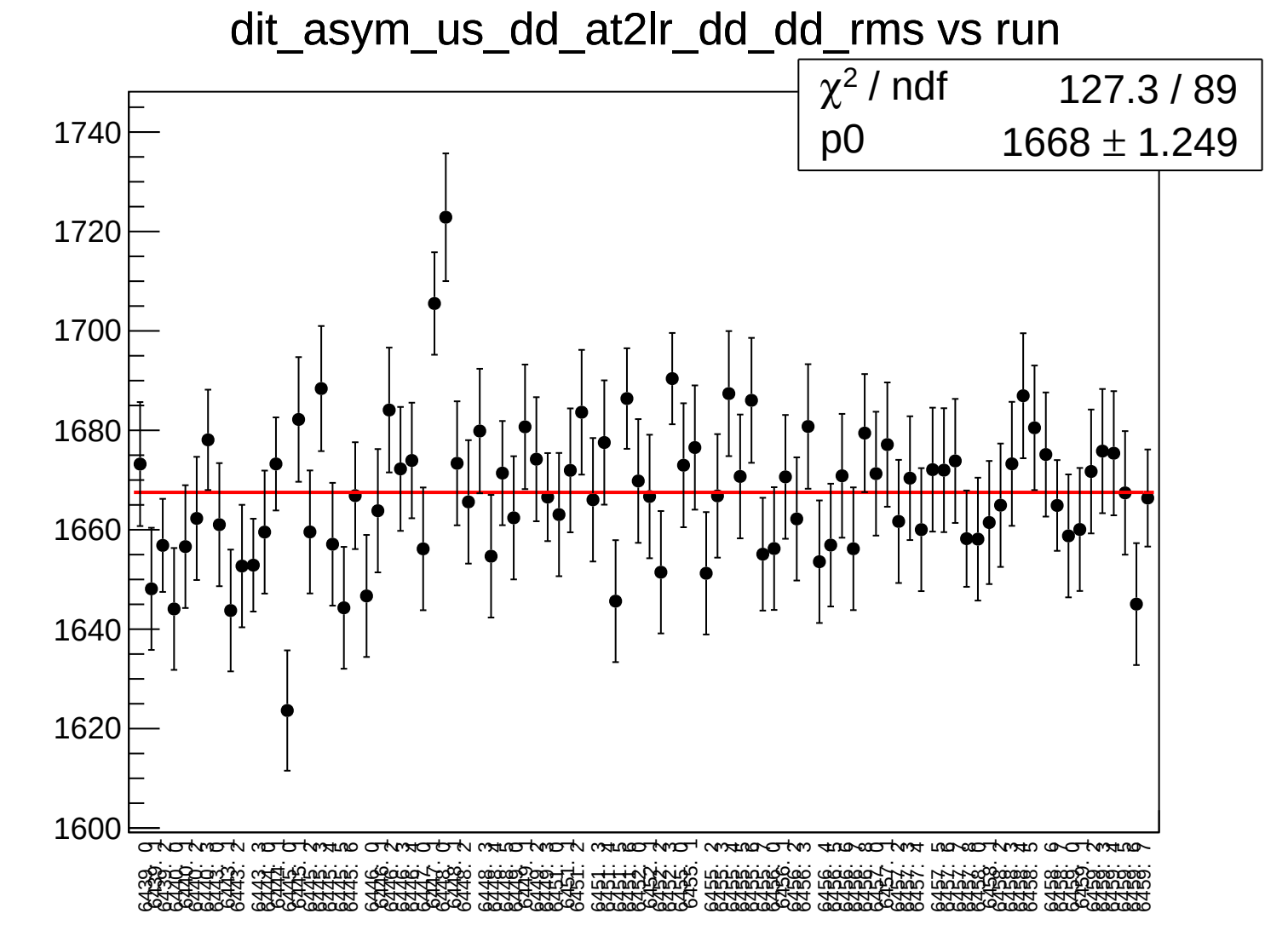

eigen_cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ^2 / ndf 130.4 / 89
p0 1666 ± 1.248
1740
1720
1700
1680
1660
1640
1620
1600

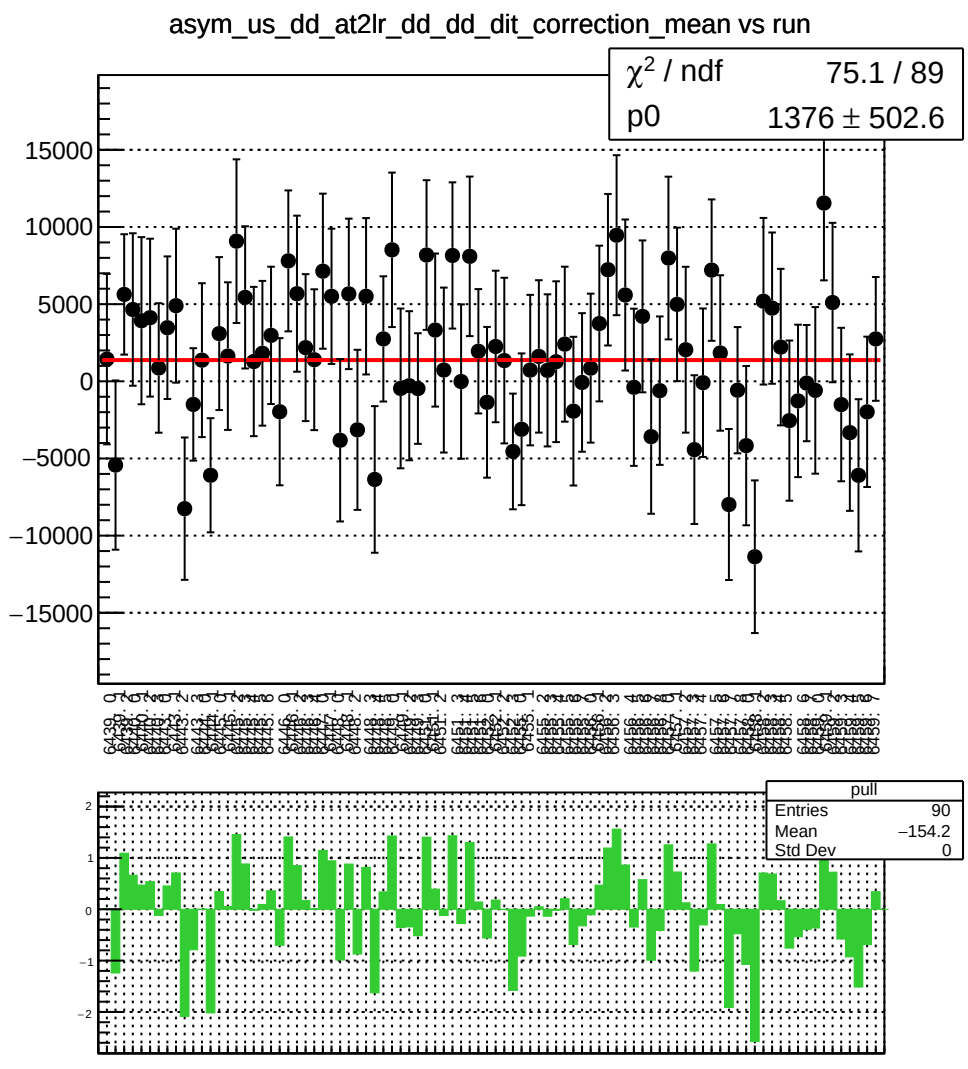

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 78.25 / 89
p0 1305 ± 482.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 90
Mean −157.5
Std Dev 0
2
1
0
−1
−2

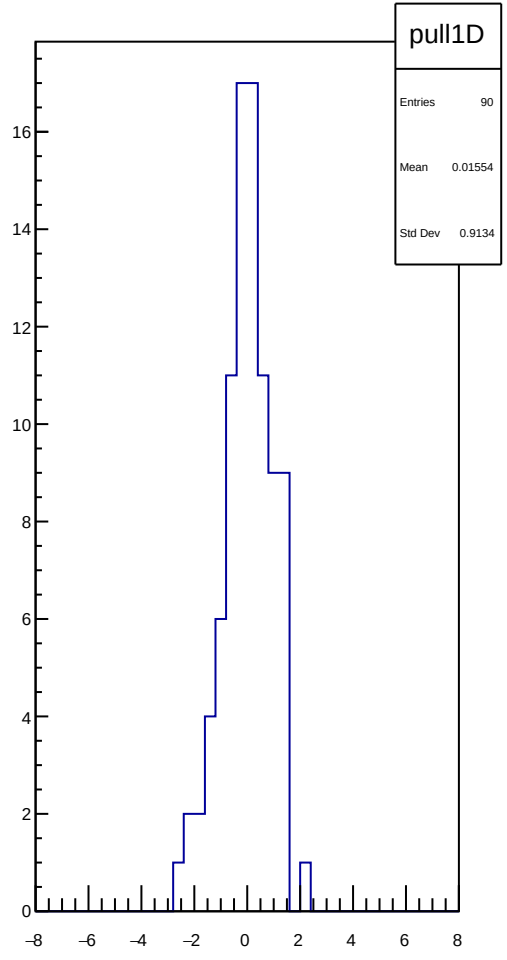

pull1D
Entries 90
Mean 0.01745
Std Dev 0.9323
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

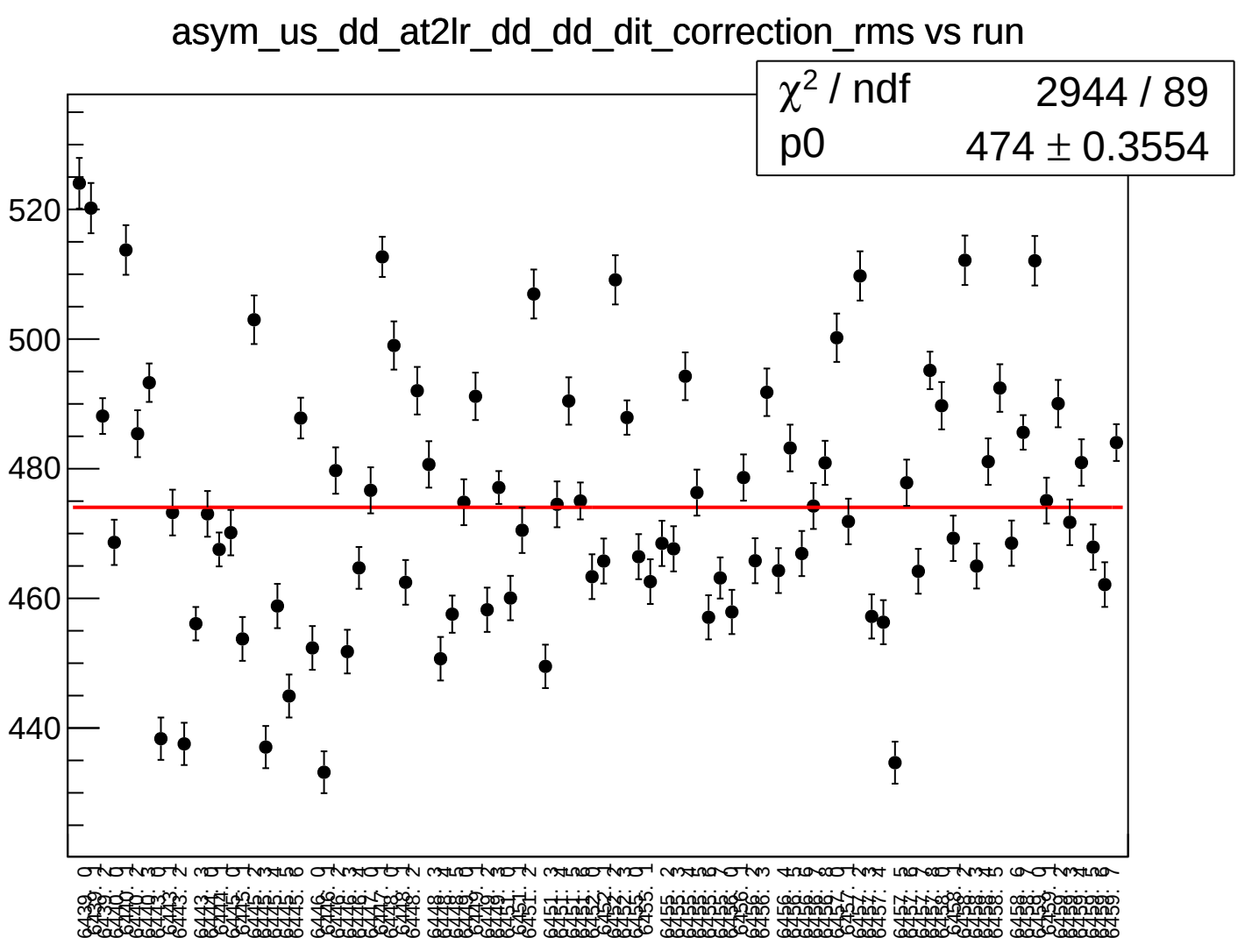

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 6368 / 89
p0 454.9 ± 0.3414
540
520
500
480
460
440
420
400
380

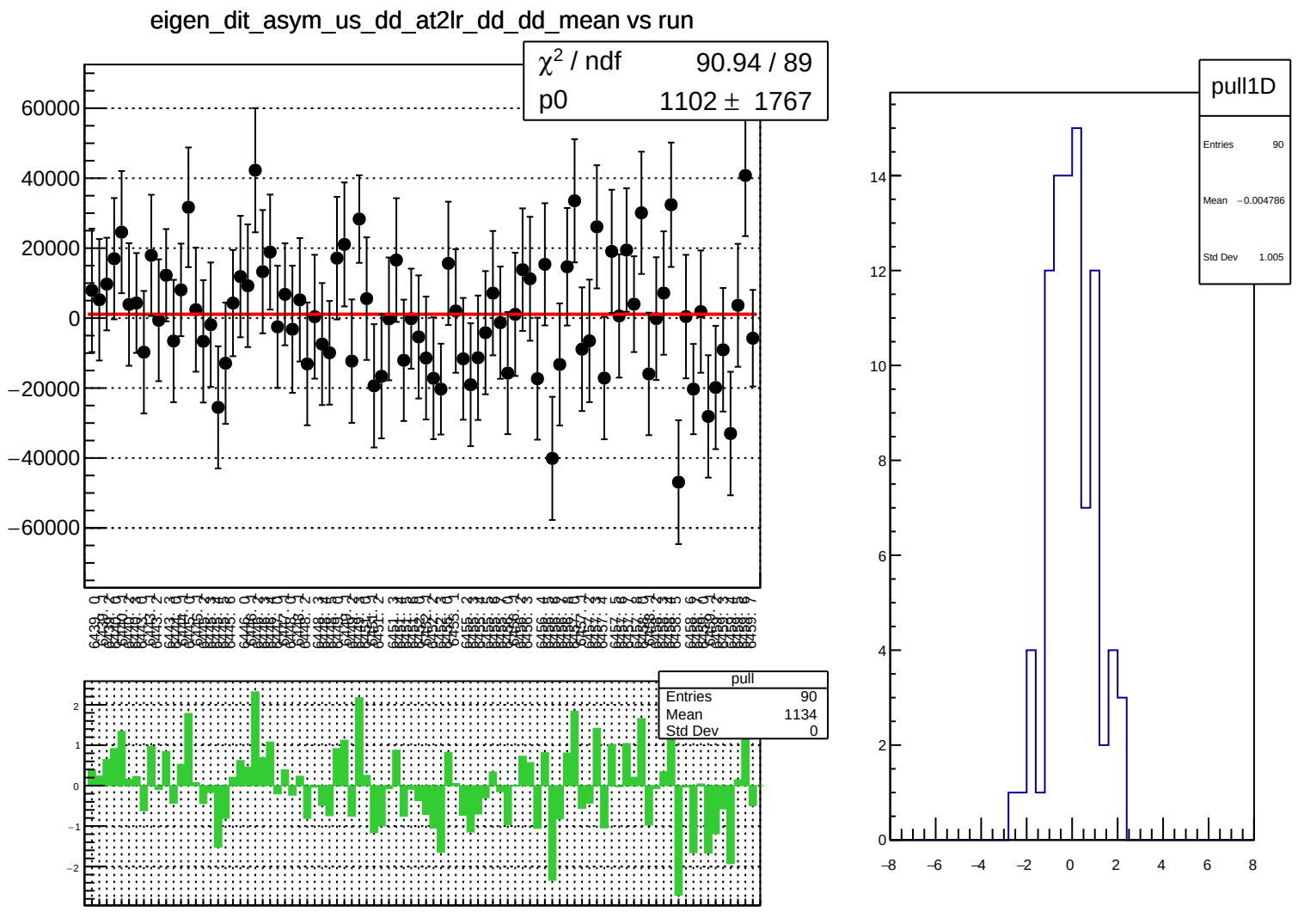

dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 90.94 / 89
p0 1102 ± 1767
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 1134
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.004786
Std Dev 1.005
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

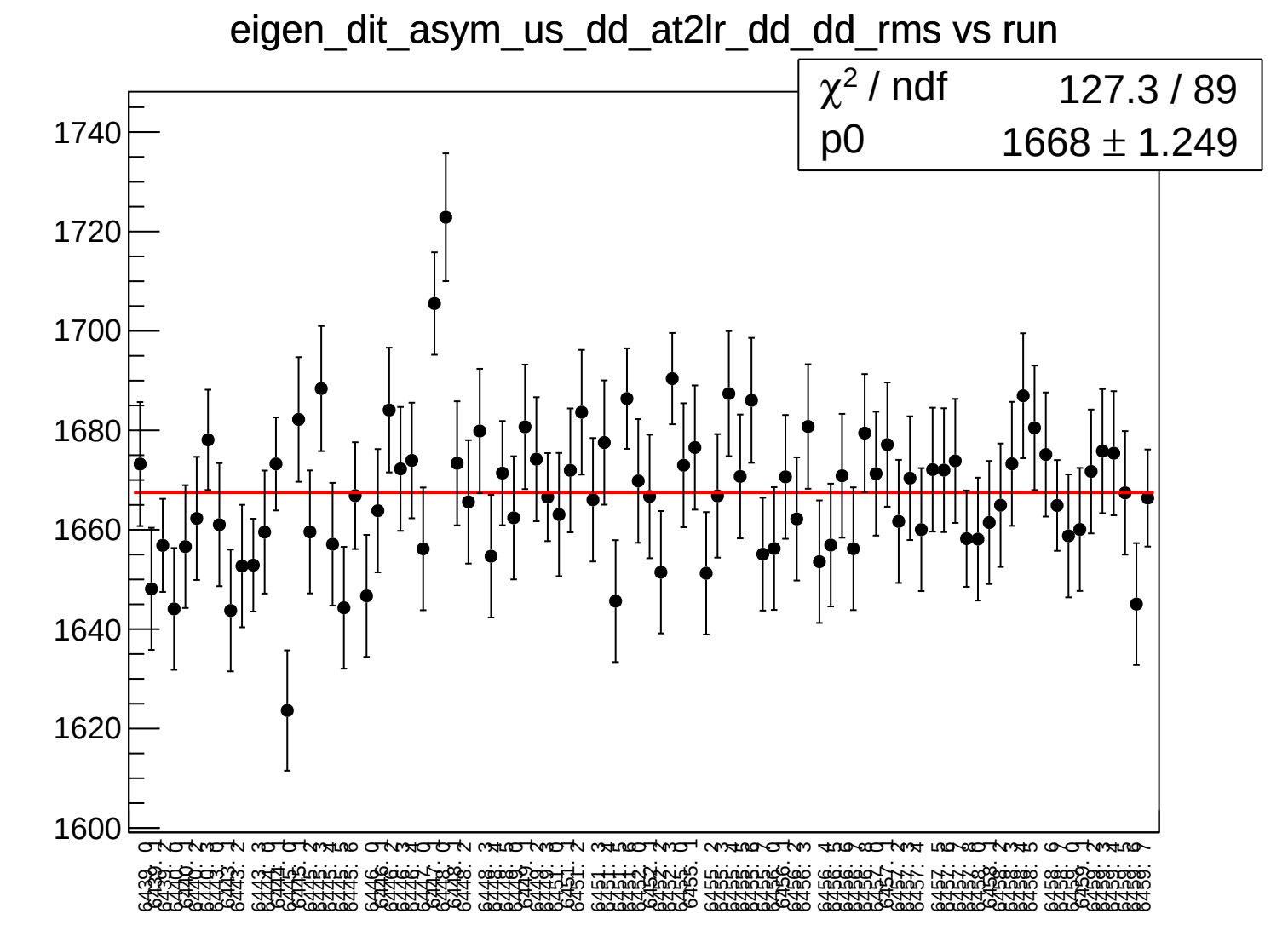

dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 127.3 / 89
p0 1668 ± 1.249
1740
1720
1700
1680
1660
1640
1620
1600

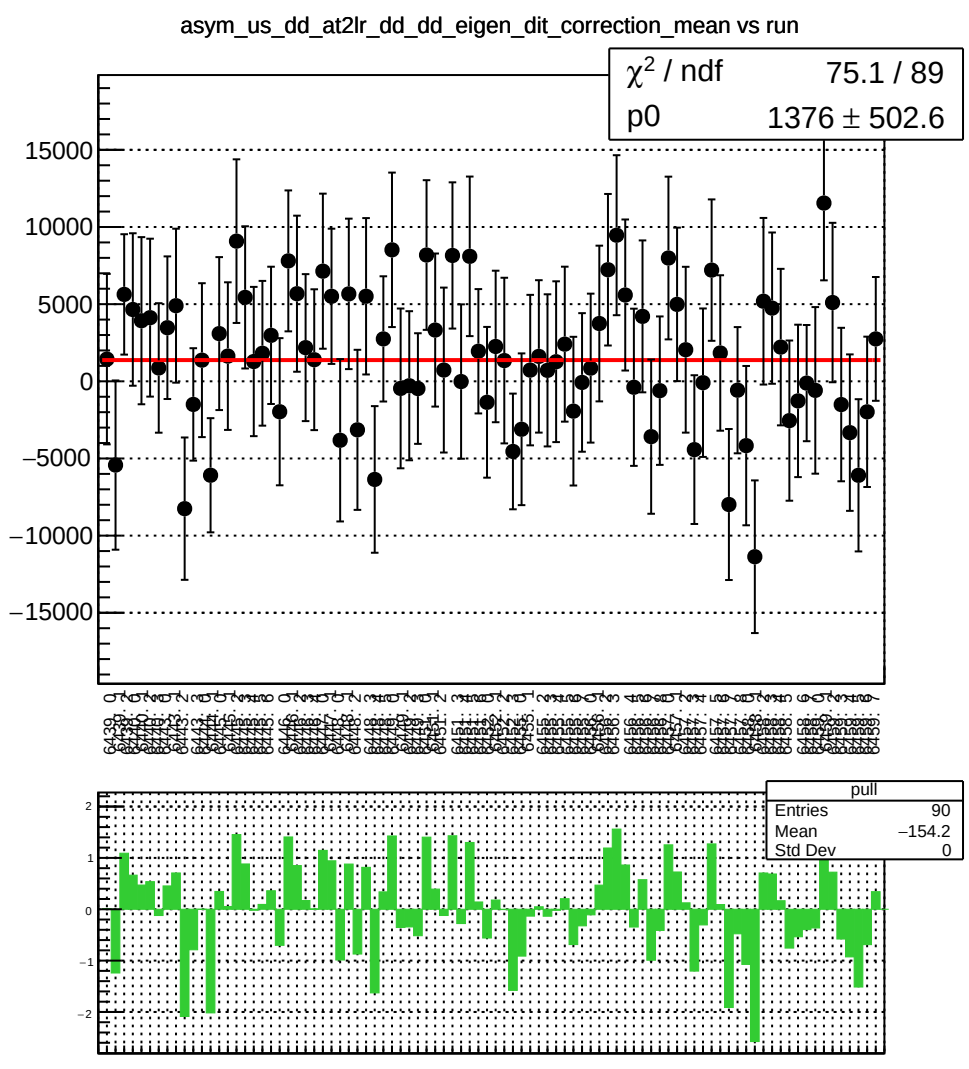

asym_us_dd_at2lr_dd_dd_dit_correction_mean vs run
χ² / ndf 75.1 / 89
p0 1376 ± 502.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 90
Mean −154.2
Std Dev 0
2
1
0
−1
−2

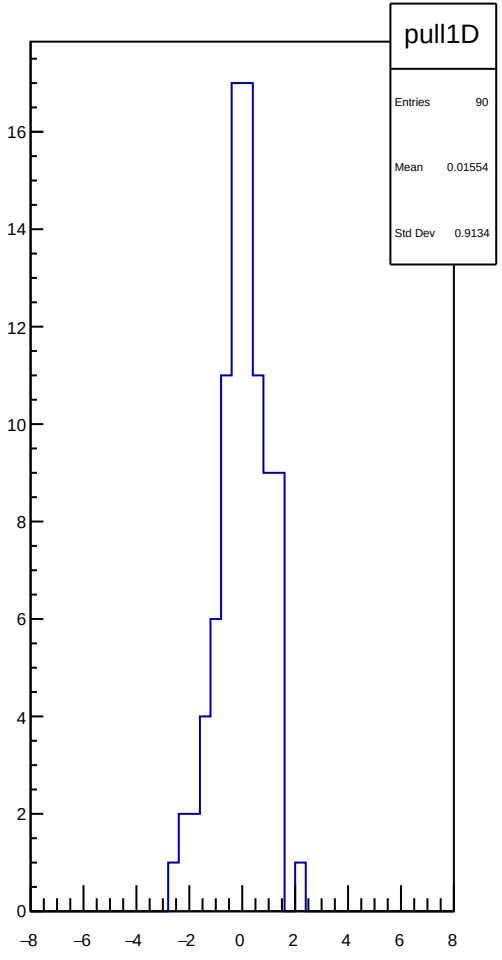

pull1D
Entries 90
Mean 0.01554
Std Dev 0.9134
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

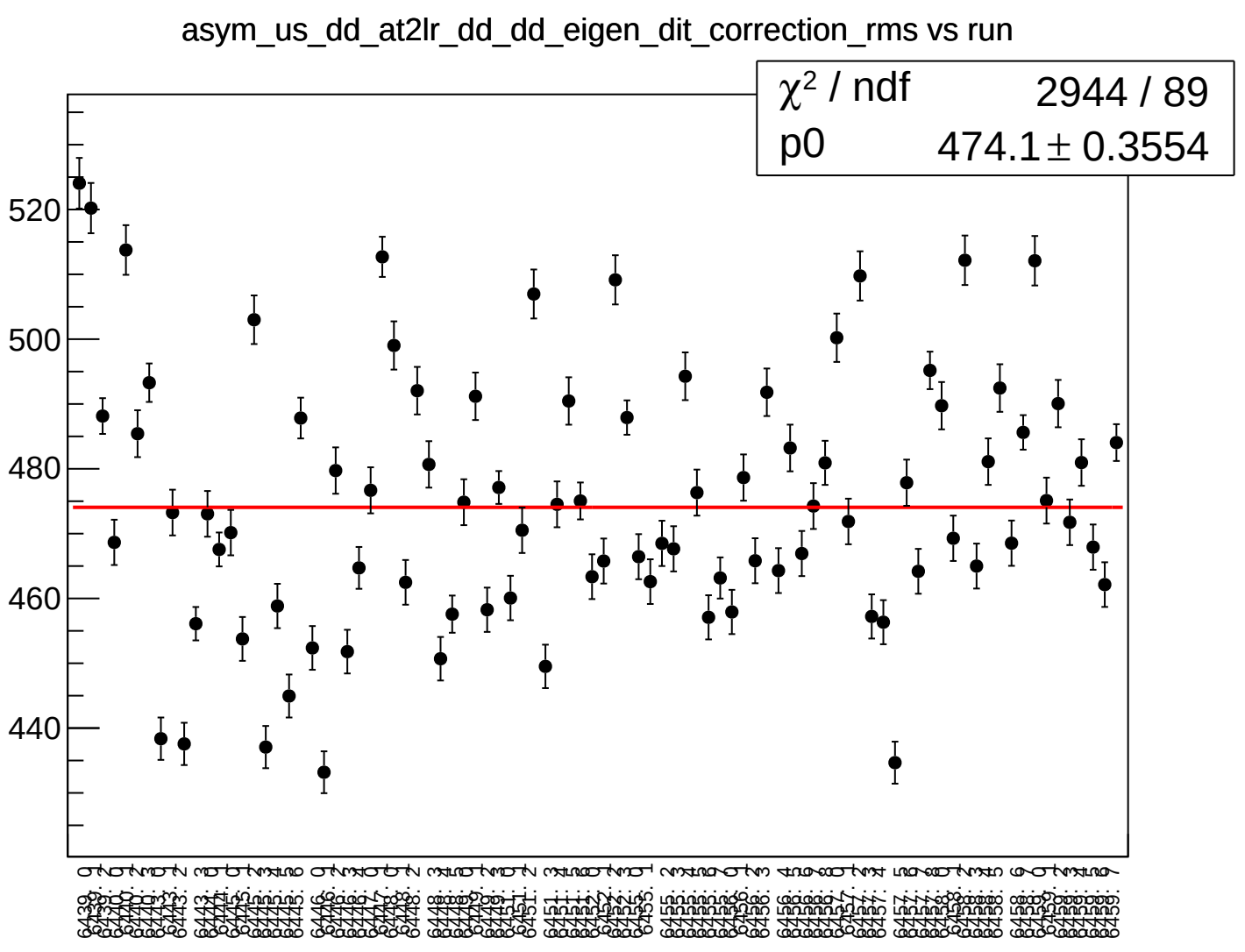

asym_us_dd_at2lr_dd_dd_dit_correction_rms vs run
χ² / ndf 2944 / 89
p0 474 ± 0.3554
520
500
480
460
440

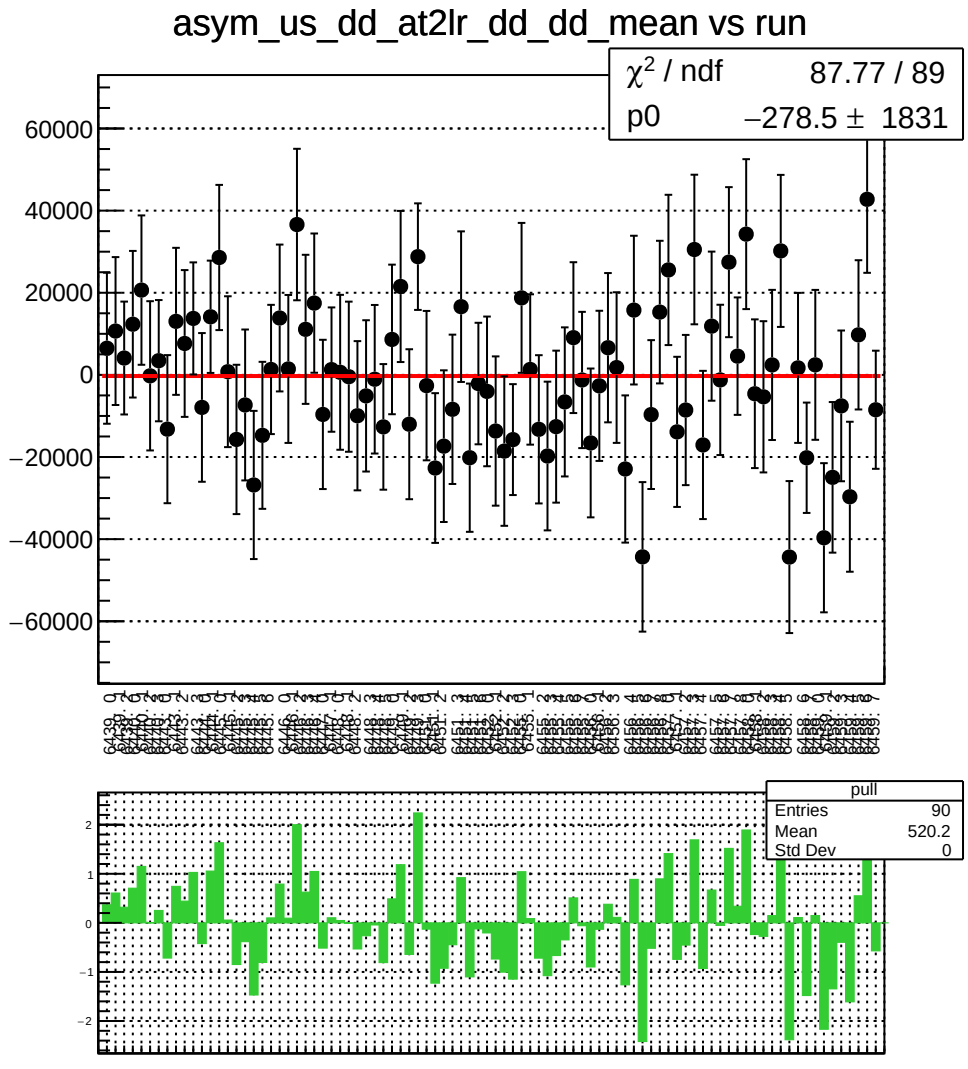

eigen_dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 90.94 / 89
p0 1102 ± 1767
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 1134
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.004786
Std Dev 1.005
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

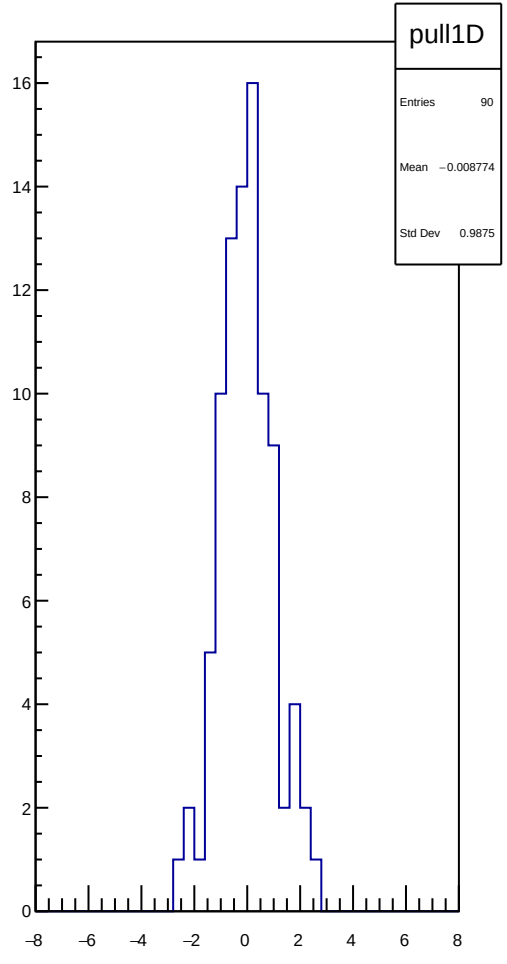

eigen_dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 127.3 / 89
p0 1668 ± 1.249
1740
1720
1700
1680
1660
1640
1620
1600

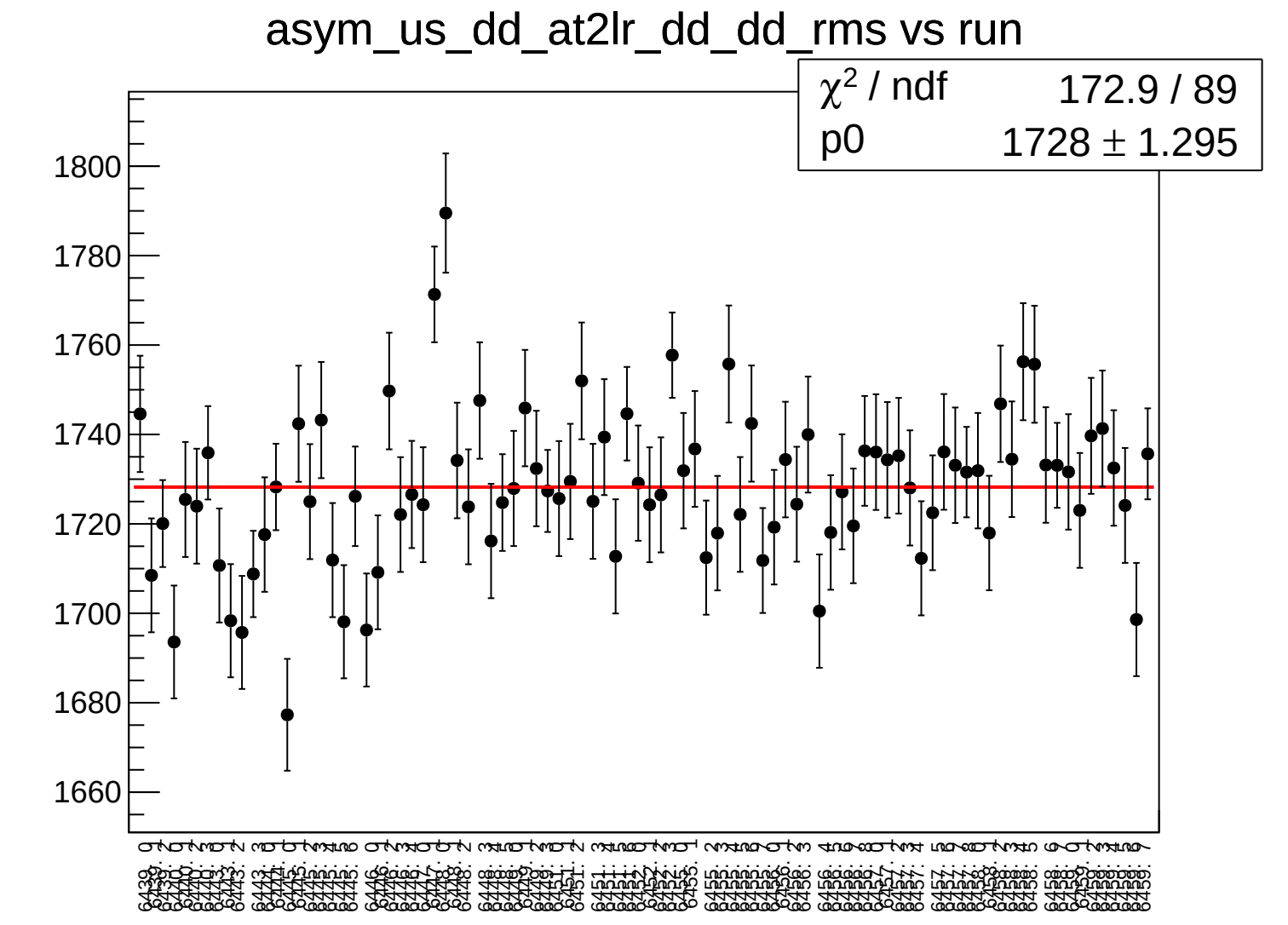

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 75.1 / 89
p0 1376 ± 502.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 90
Mean −154.2
Std Dev 0
2
1
0
−1
−2

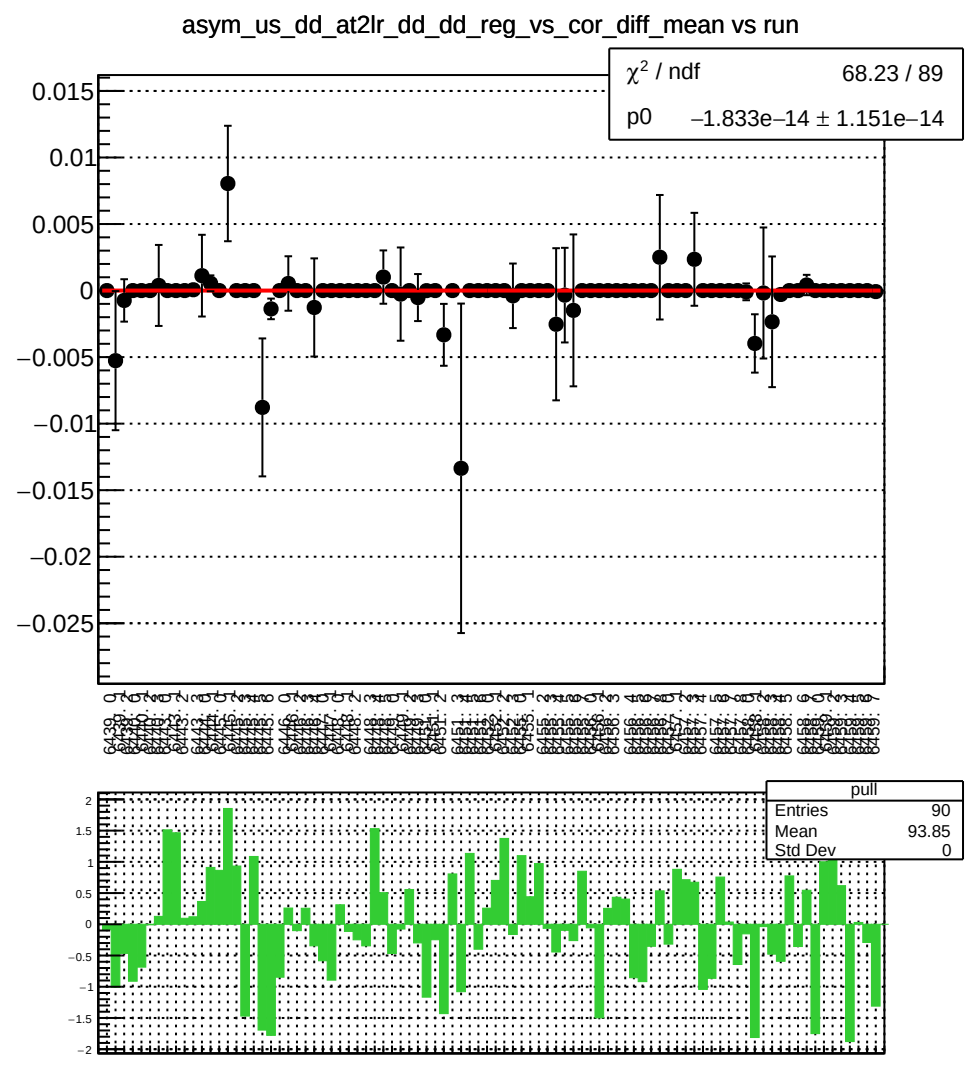

pull1D
Entries 90
Mean 0.01554
Std Dev 0.9134
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

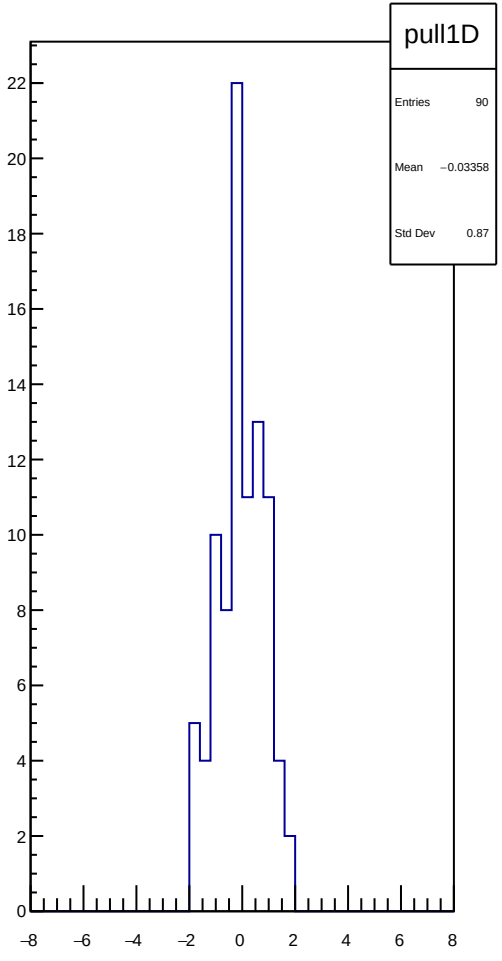

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 2944 / 89
p0 474.1 ± 0.3554
520
500
480
460
440

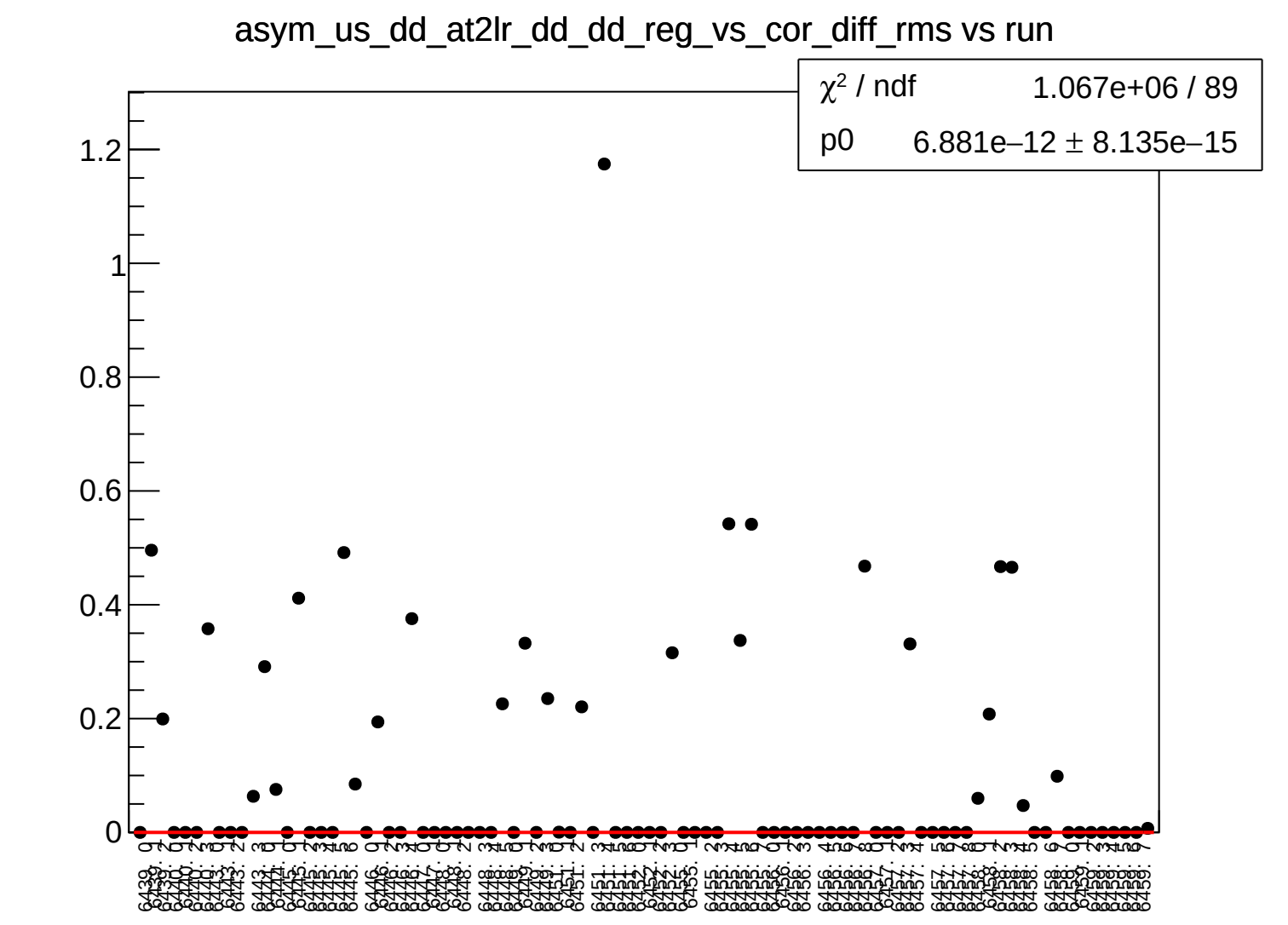

asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 87.77 / 89
p0 −278.5 ± 1831
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 520.2
Std Dev 0
2
1
0
−1
−2

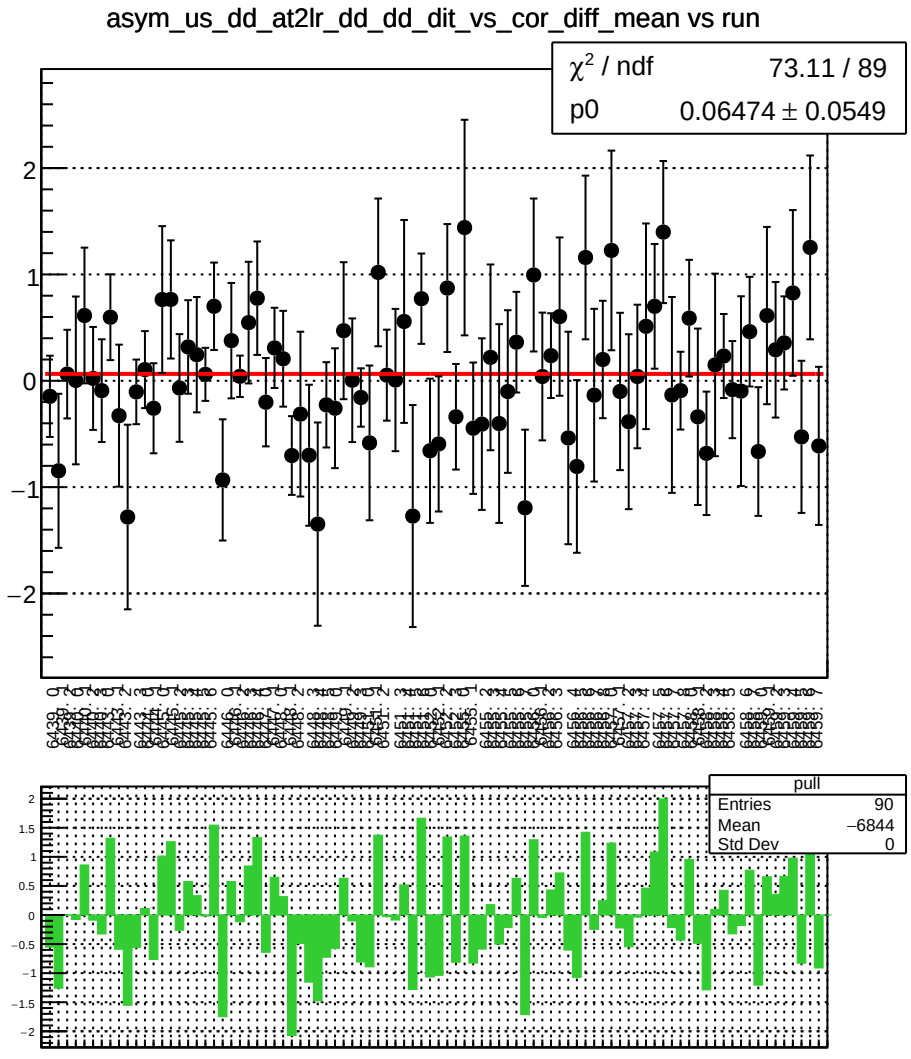

pull1D
Entries 90
Mean −0.008774
Std Dev 0.9875
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

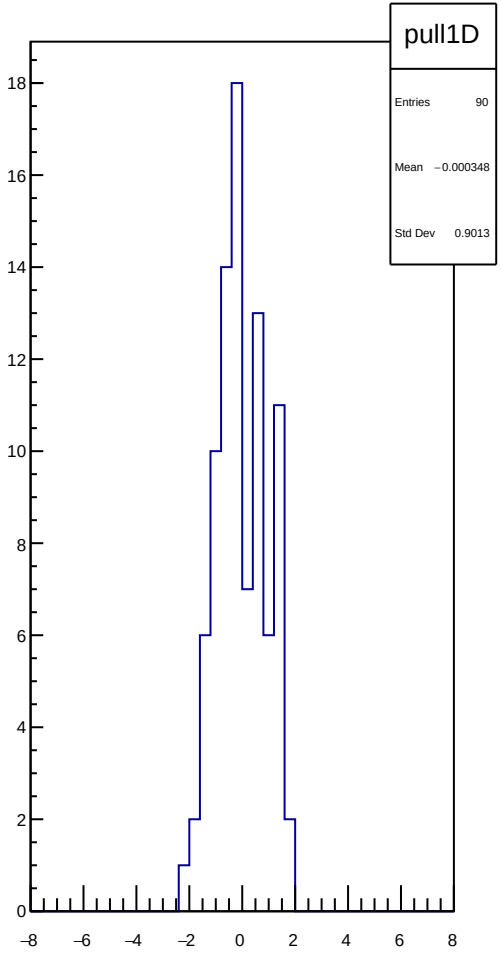

asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 172.9 / 89
p0 1728 ± 1.295
1800
1780
1760
1740
1720
1700
1680
1660

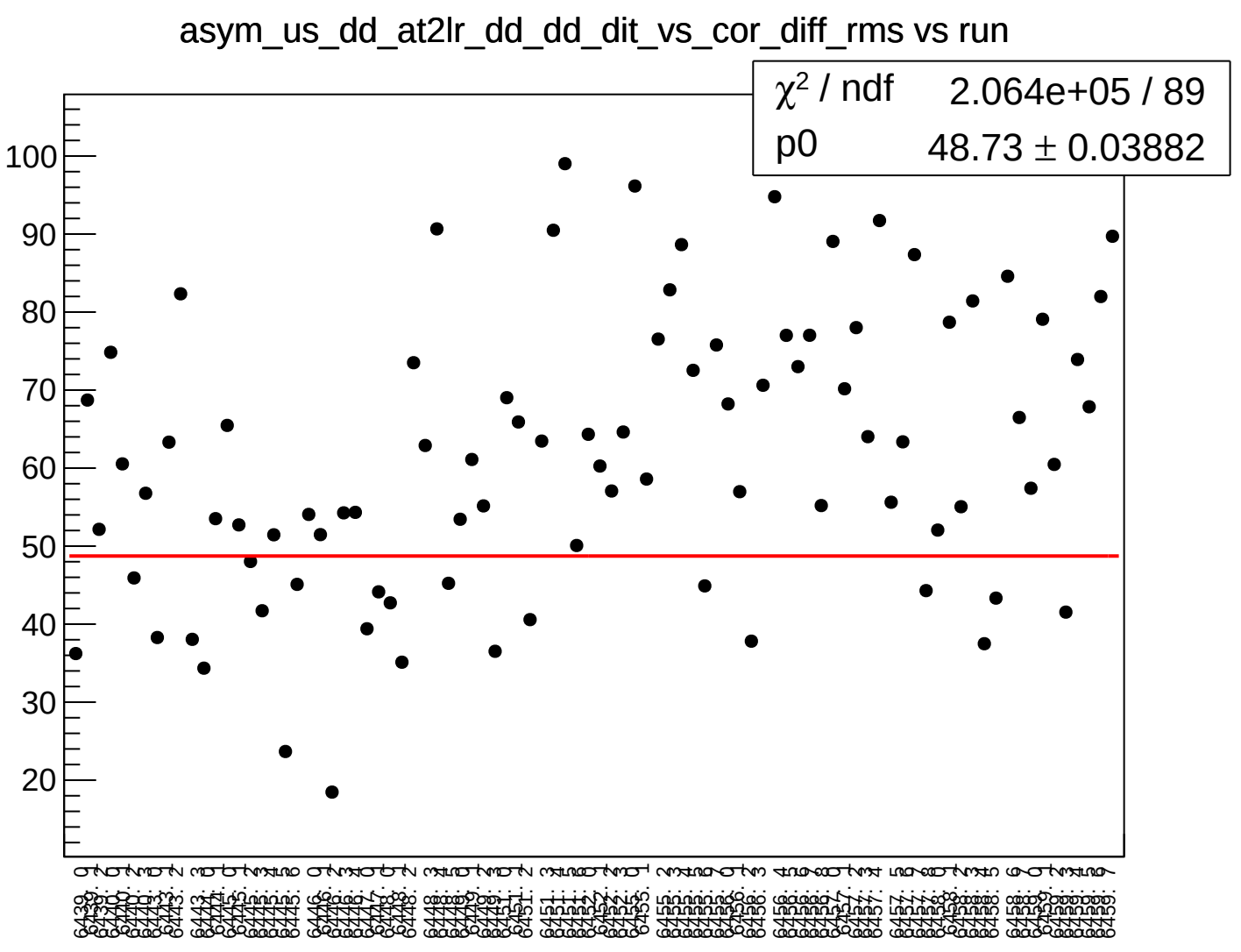

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 68.23 / 89
p0 −1.833e−14 ± 1.151e−14
pull
Entries 90
Mean 93.85
Std Dev 0

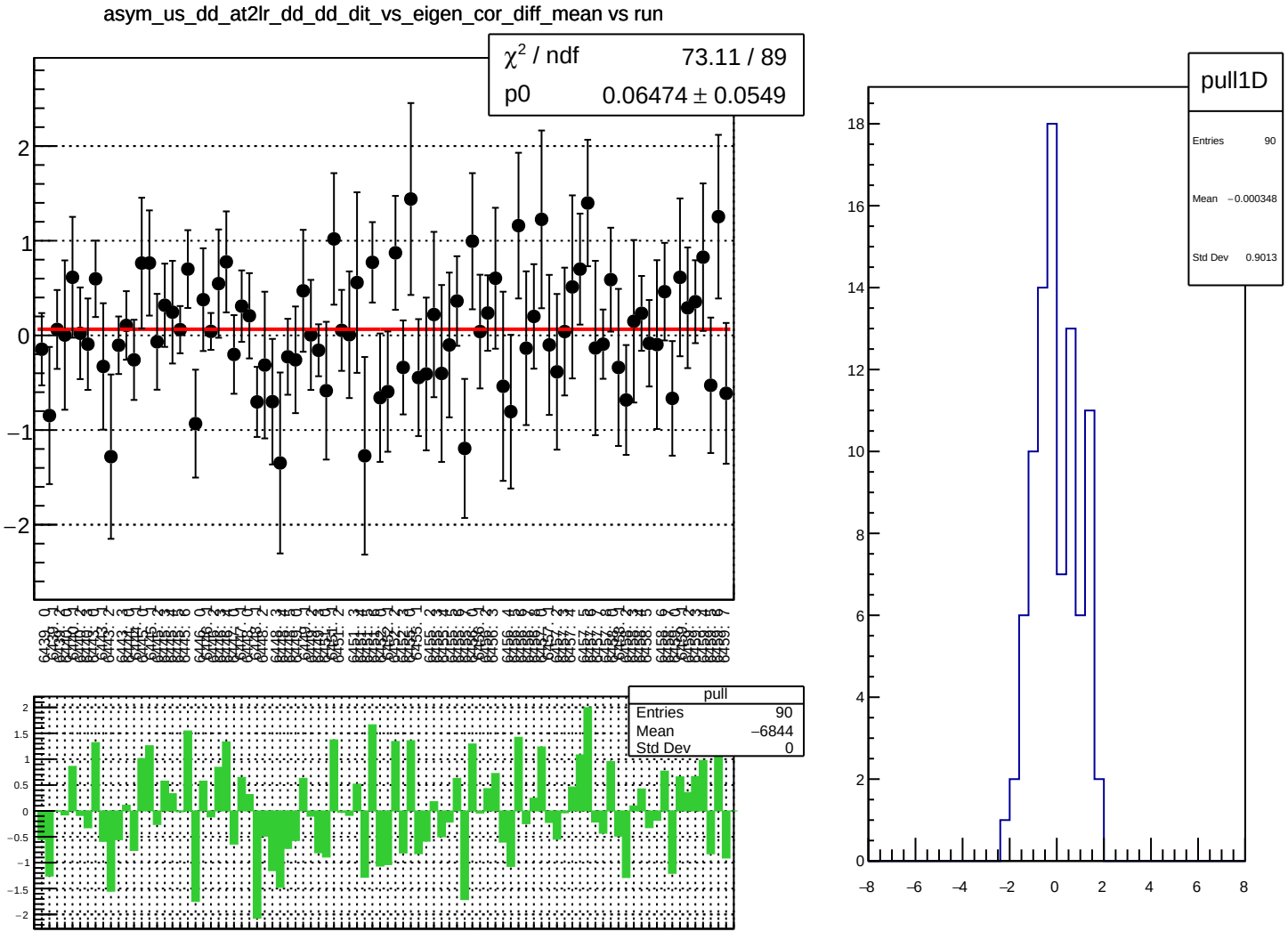

pull1D
Entries 90
Mean −0.03358
Std Dev 0.87

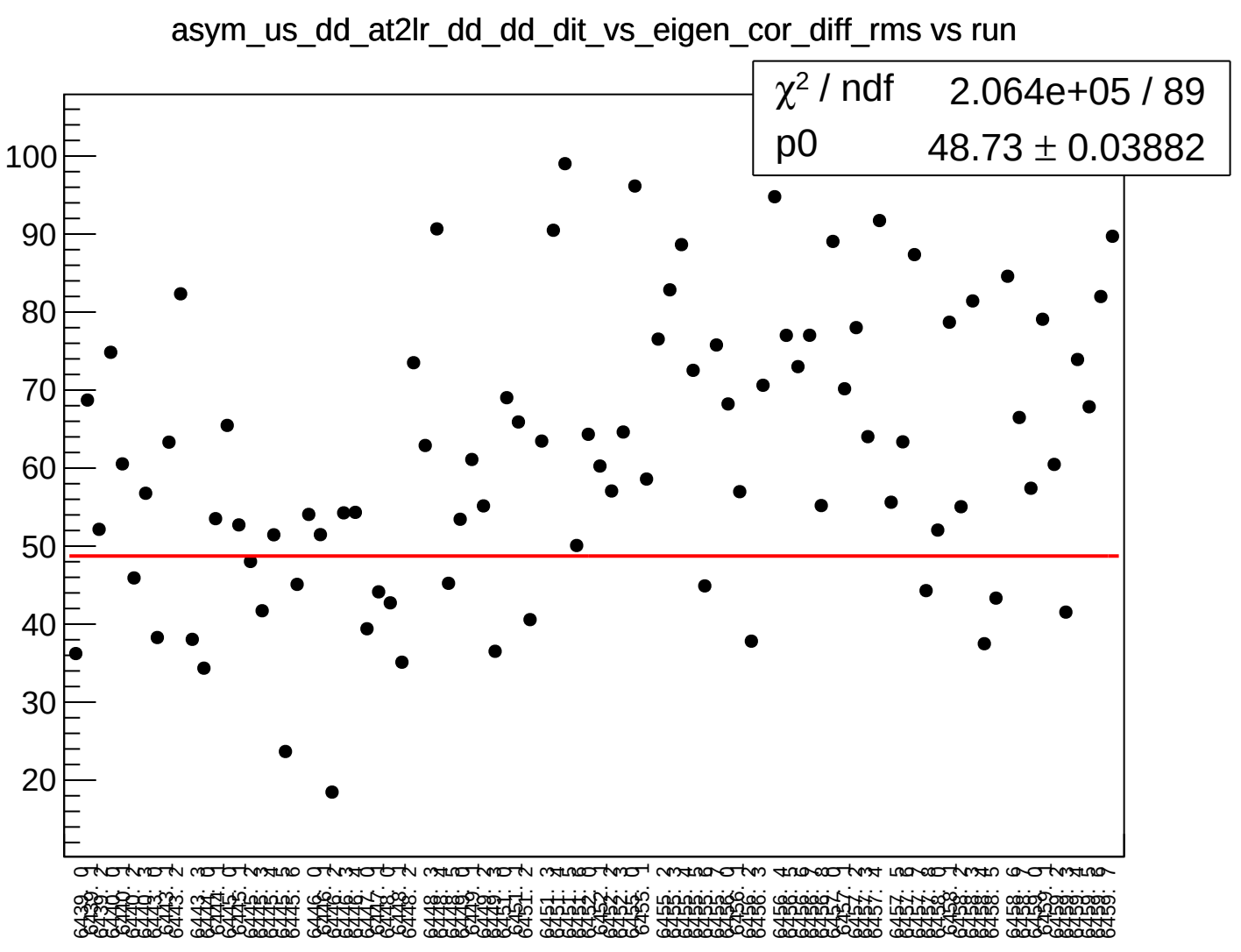

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.067e+06 / 89
p0 6.881e−12 ± 8.135e−15
1.2
1
0.8
0.6
0.4
0.2
0

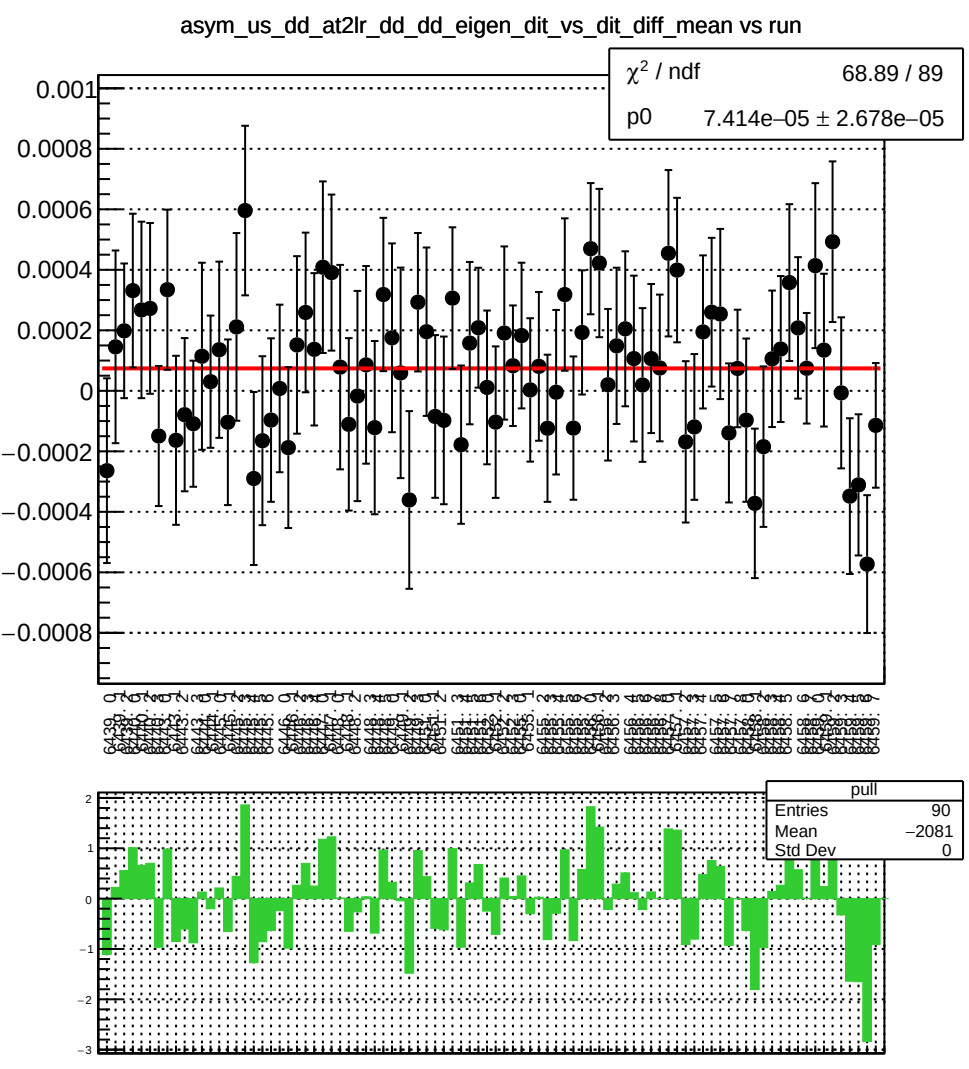

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 73.11 / 89
p0 0.06474 ± 0.0549
pull
Entries 90
Mean −6844
Std Dev 0

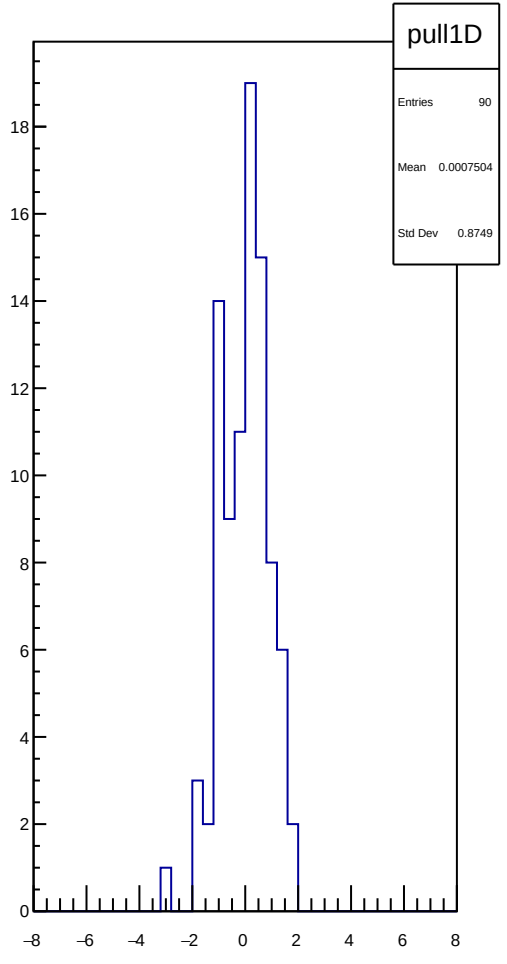

pull1D
Entries 90
Mean −0.000348
Std Dev 0.9013

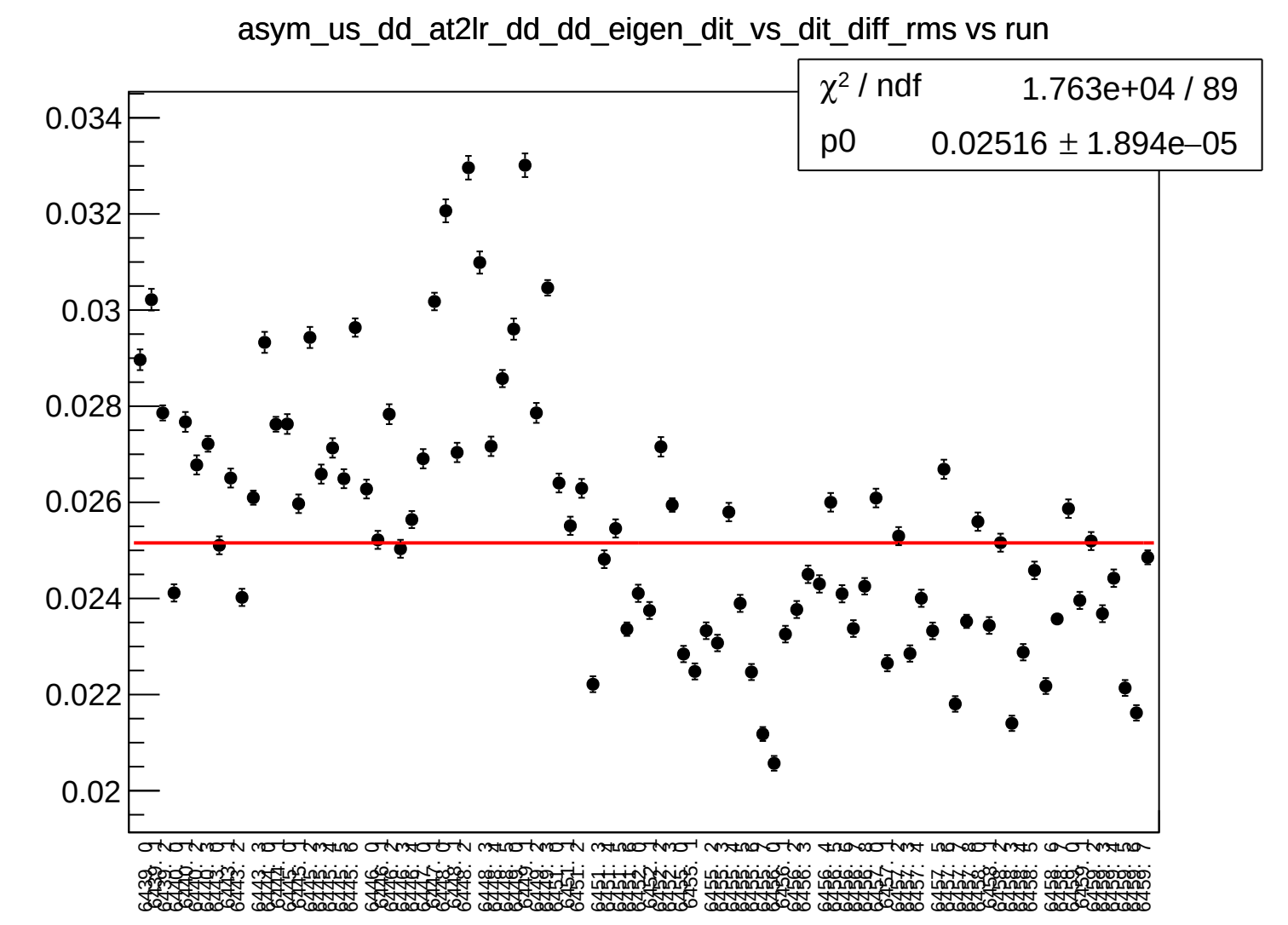

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.064e+05 / 89
p0 48.73 ± 0.03882
100
90
80
70
60
50
40
30
20

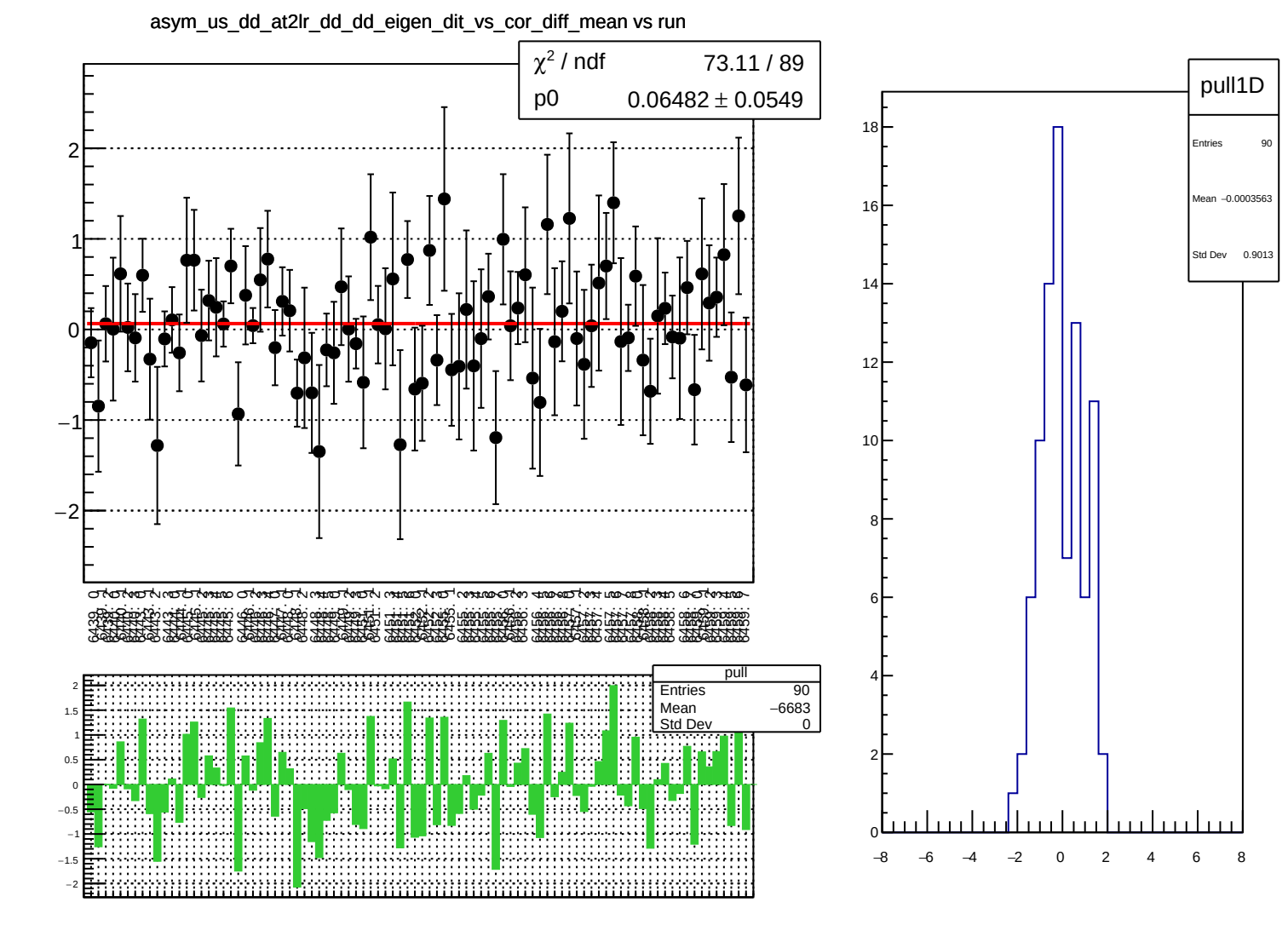

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.11 / 89
p0 0.06474 ± 0.0549
pull
Entries 90
Mean −6844
Std Dev 0
pull1D
Entries 90
Mean −0.000348
Std Dev 0.9013

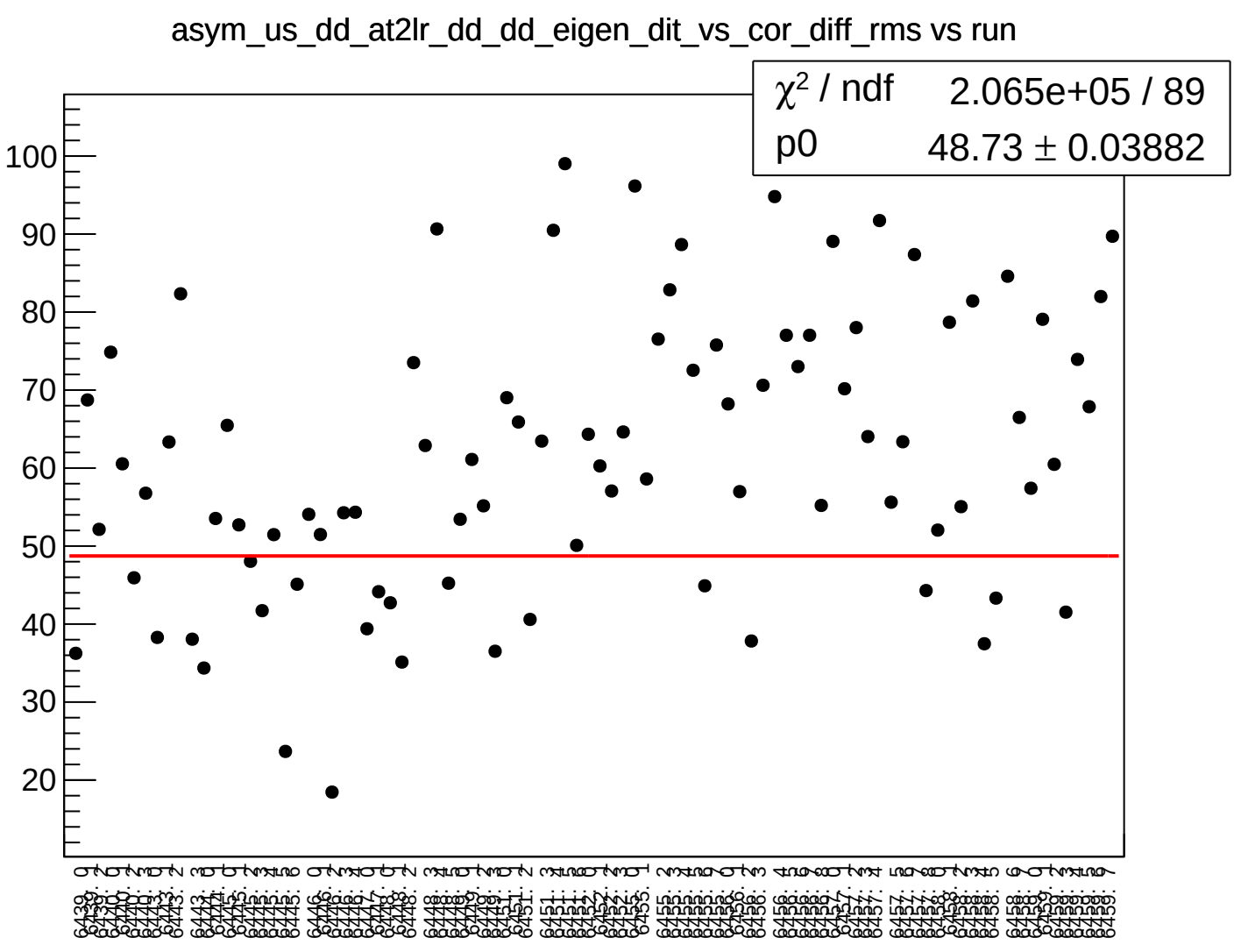

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.064e+05 / 89
p0 48.73 ± 0.03882
100
90
80
70
60
50
40
30
20

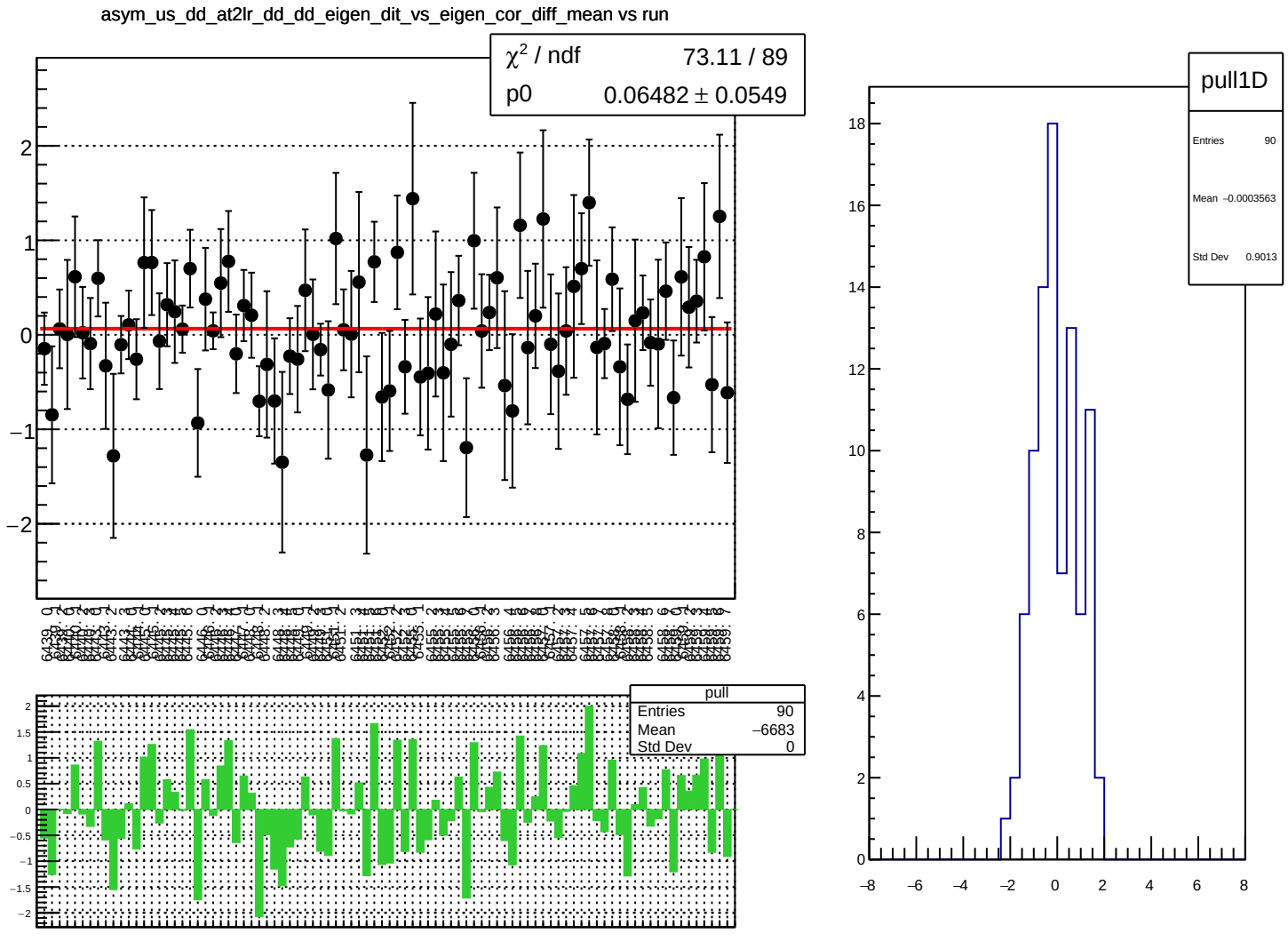

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 68.89 / 89
p0 7.414e−05 ± 2.678e−05
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
pull
Entries 90
Mean −2081
Std Dev 0
2
1
0
−1
−2
−3

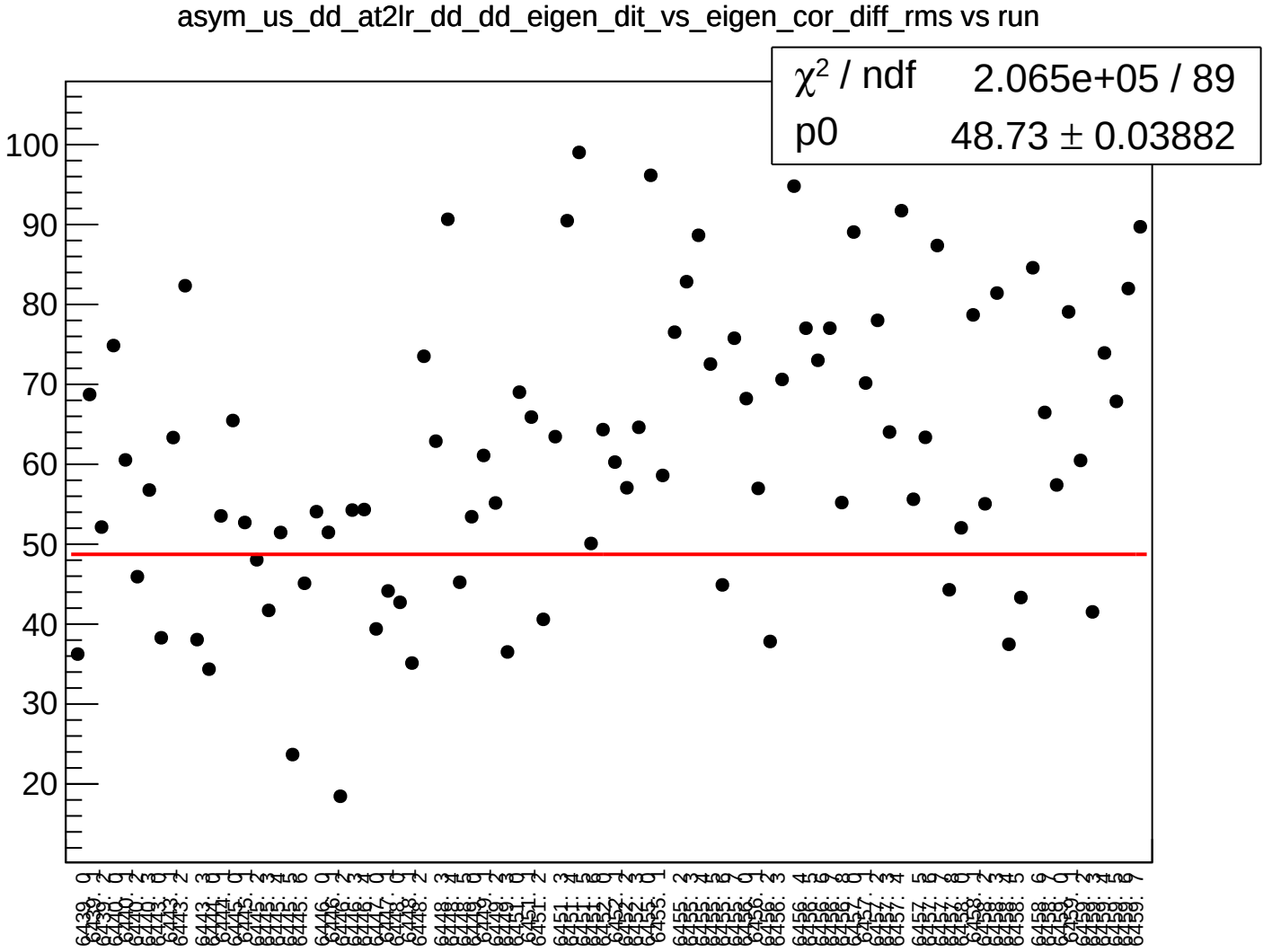

pull1D
Entries 90
Mean 0.0007504
Std Dev 0.8749
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

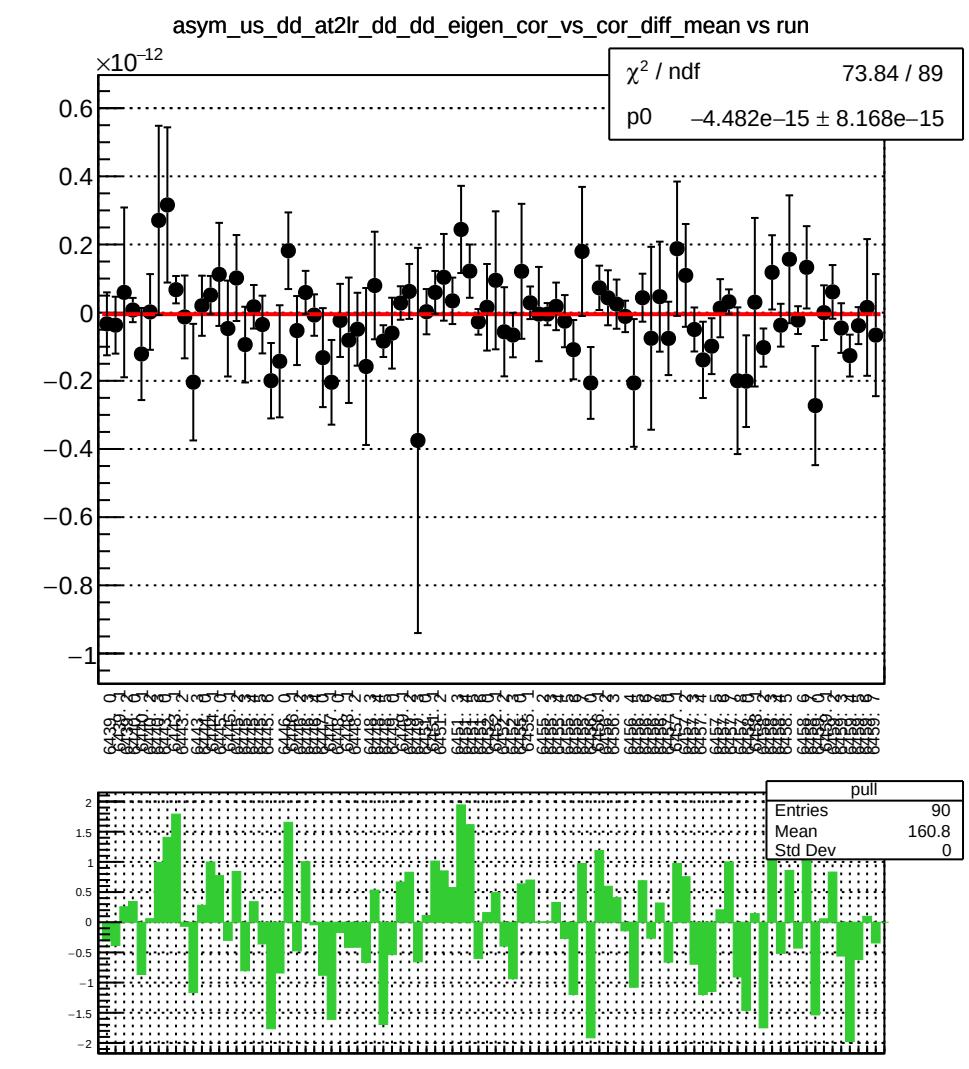

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.763e+04 / 89
p0 0.02516 ± 1.894e−05
0.034
0.032
0.03
0.028
0.026
0.024
0.022
0.02

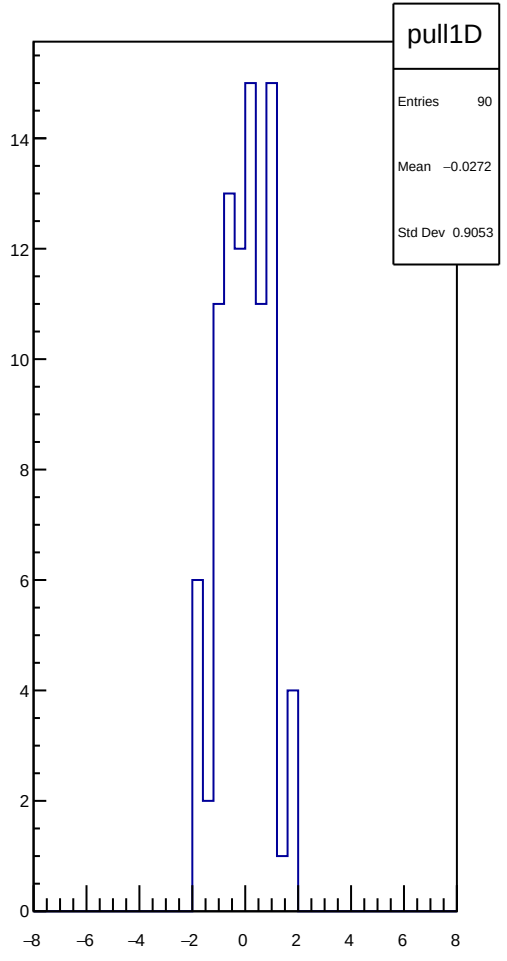

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 73.11 / 89
p0 0.06482 ± 0.0549
pull
Entries 90
Mean −6683
Std Dev 0
pull1D
Entries 90
Mean −0.0003563
Std Dev 0.9013

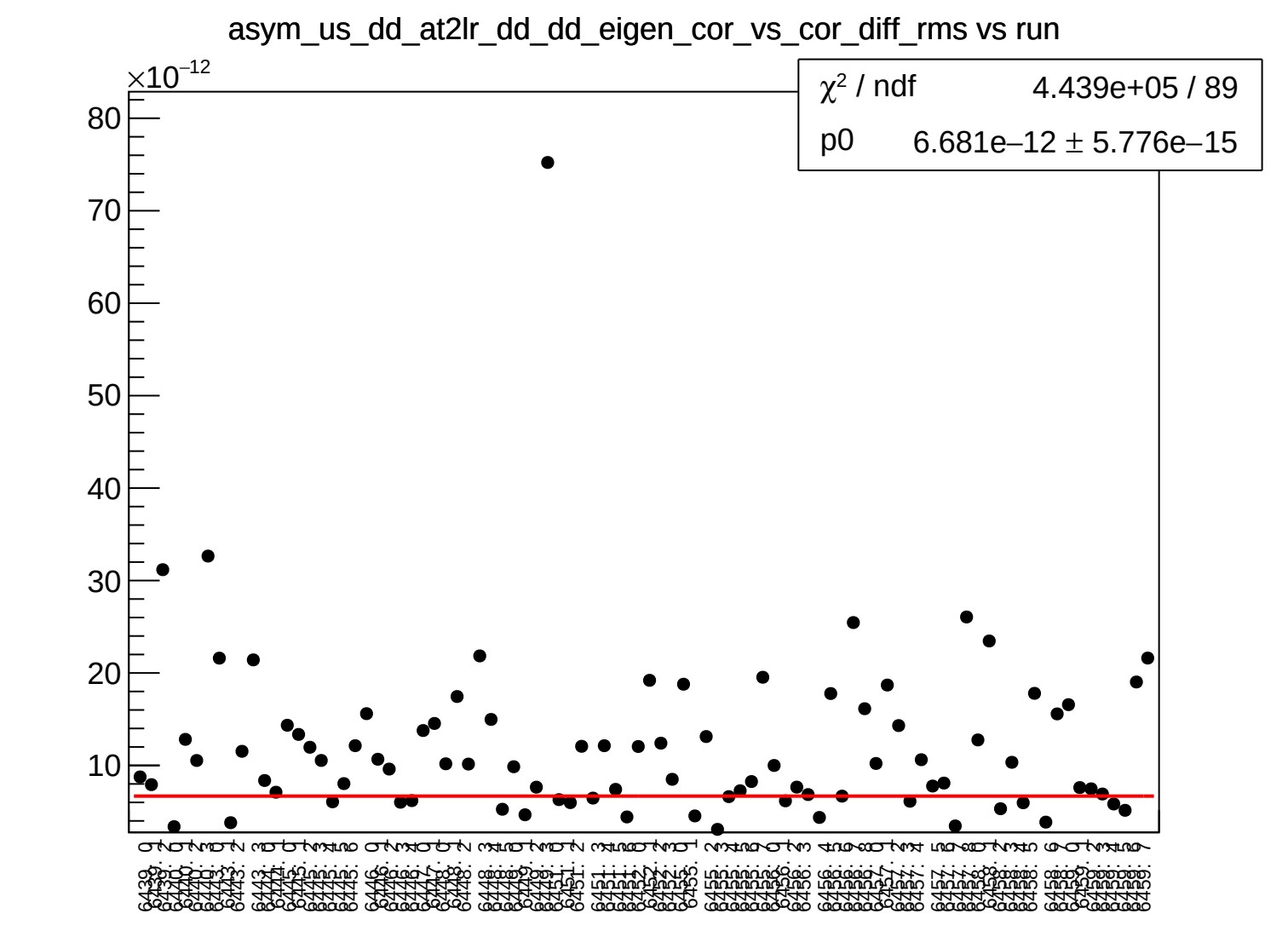

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.065e+05 / 89
p0 48.73 ± 0.03882
100
90
80
70
60
50
40
30
20

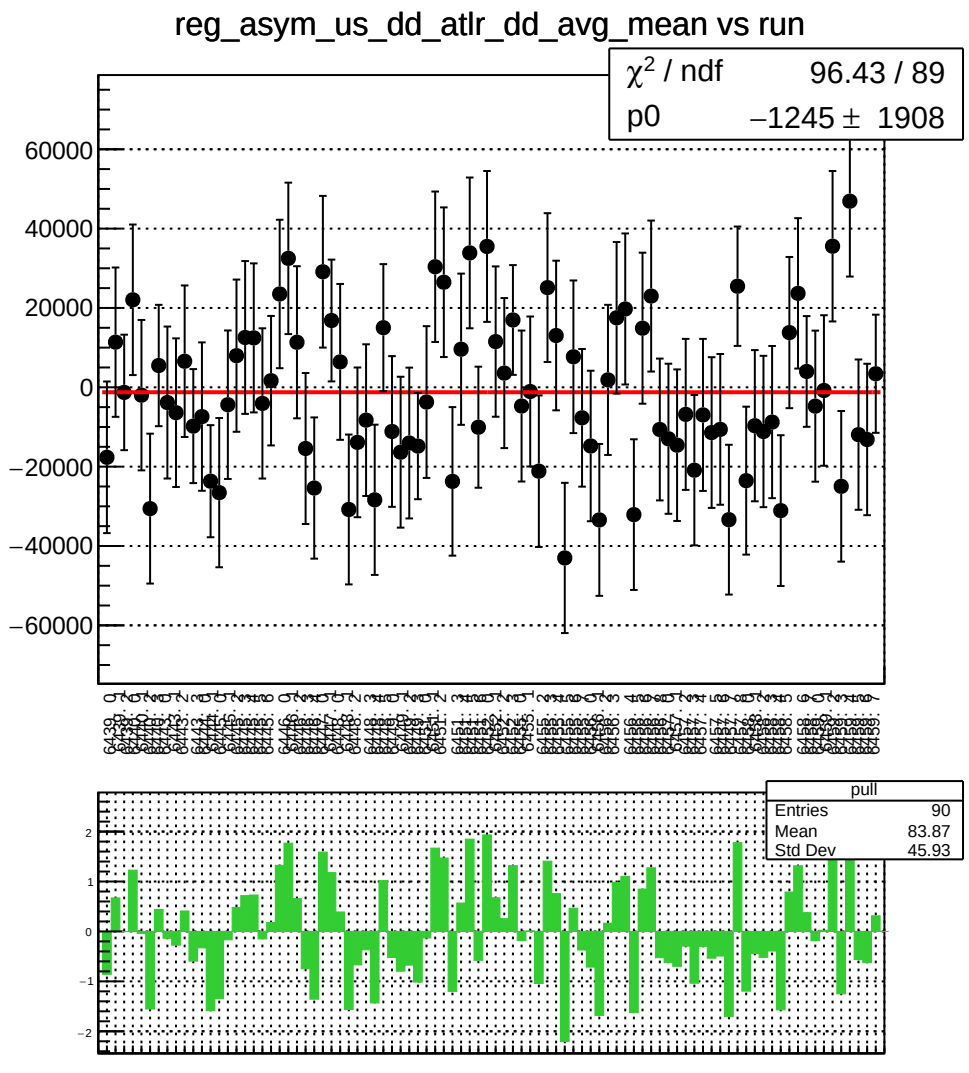

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.11 / 89
p0 0.06482 ± 0.0549
pull
Entries 90
Mean −6683
Std Dev 0
pull1D
Entries 90
Mean −0.0003563
Std Dev 0.9013

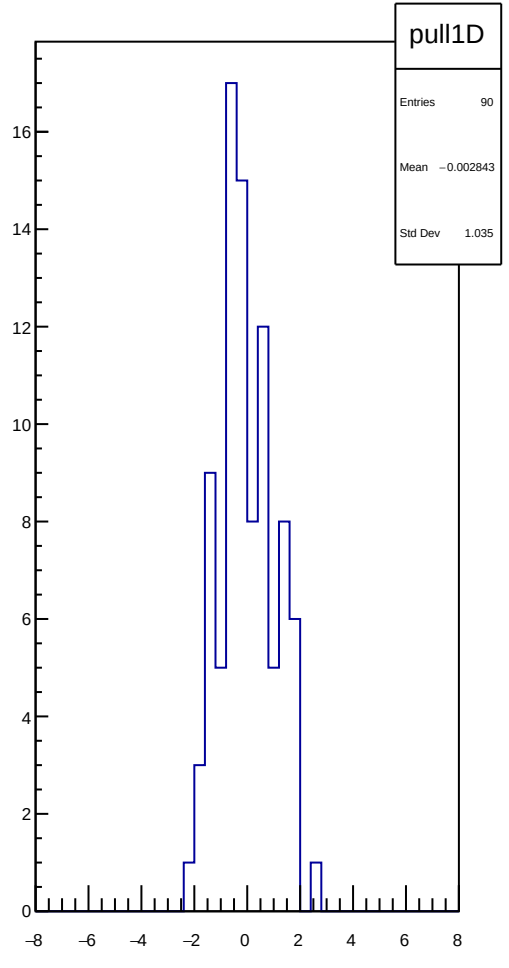

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.065e+05 / 89
p0 48.73 ± 0.03882
100
90
80
70
60
50
40
30
20

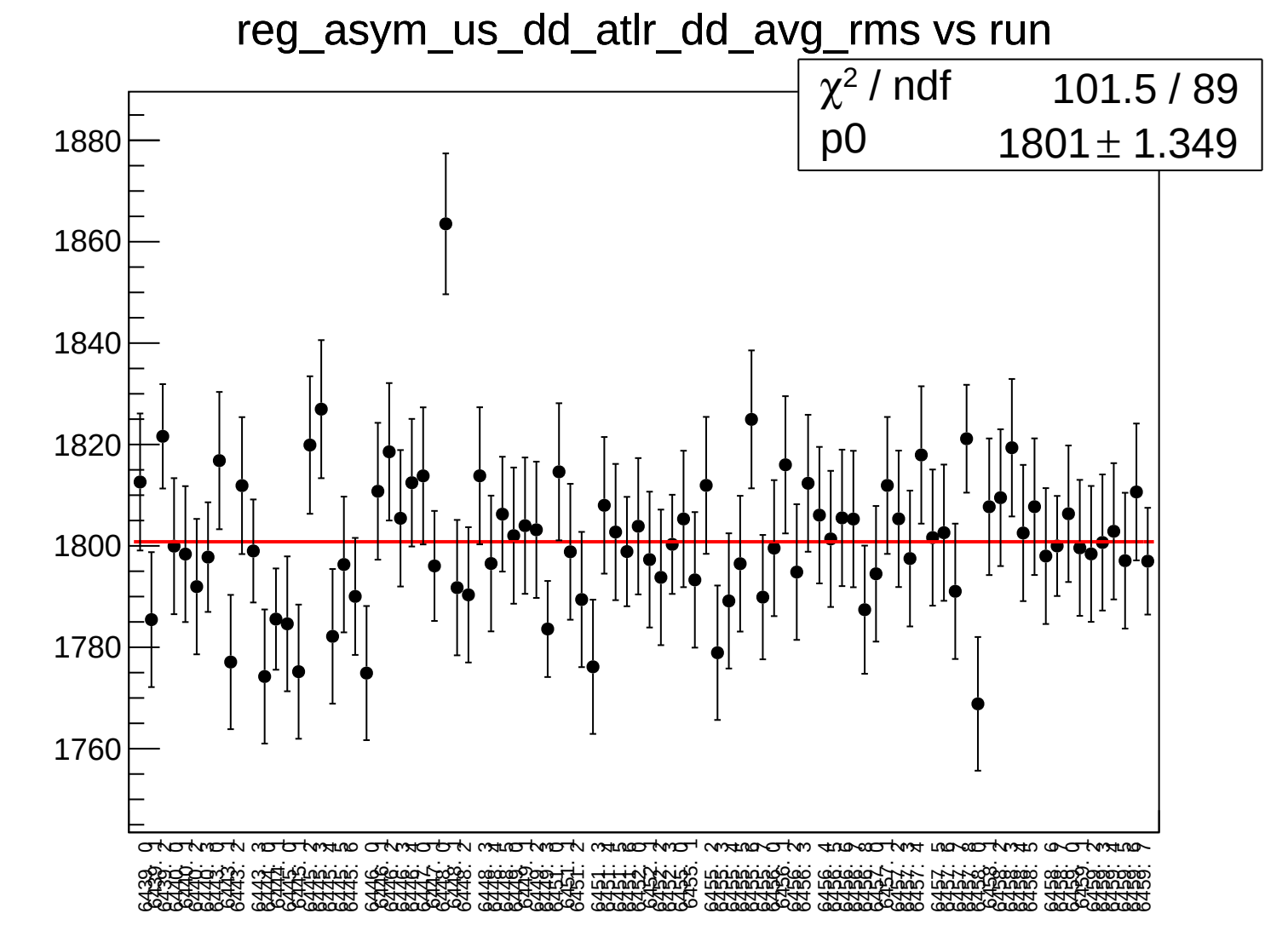

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 73.84 / 89
p0 −4.482e−15 ± 8.168e−15
pull
Entries 90
Mean 160.8
Std Dev 0

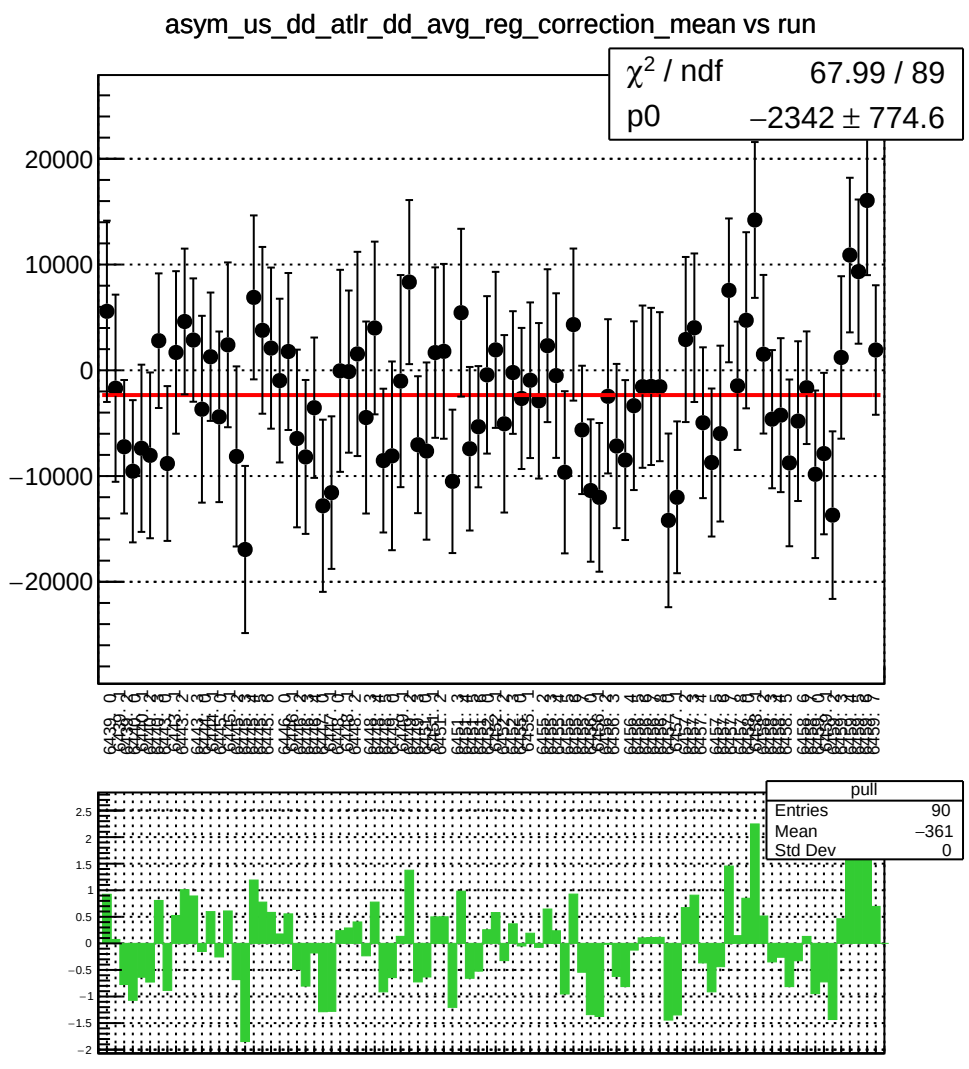

pull1D
Entries 90
Mean −0.0272
Std Dev 0.9053

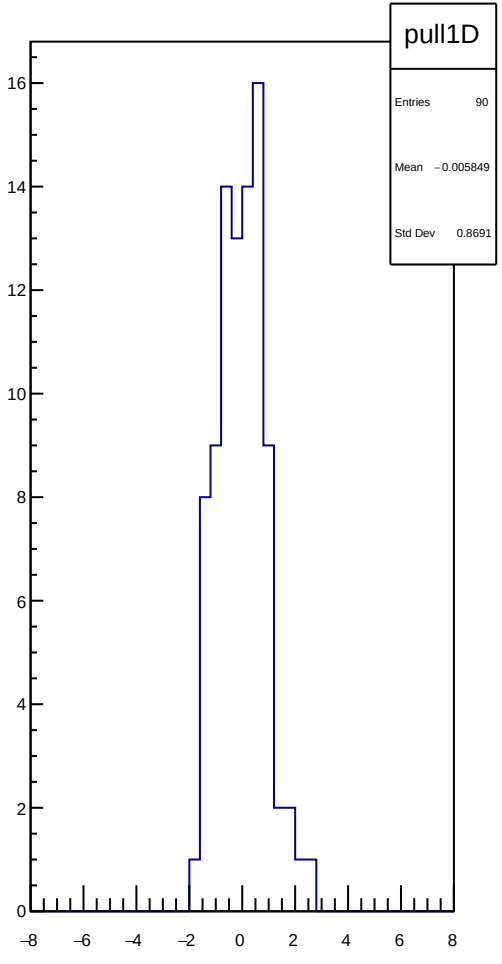

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.439e+05 / 89
p0 6.681e−12 ± 5.776e−15
80
70
60
50
40
30
20
10

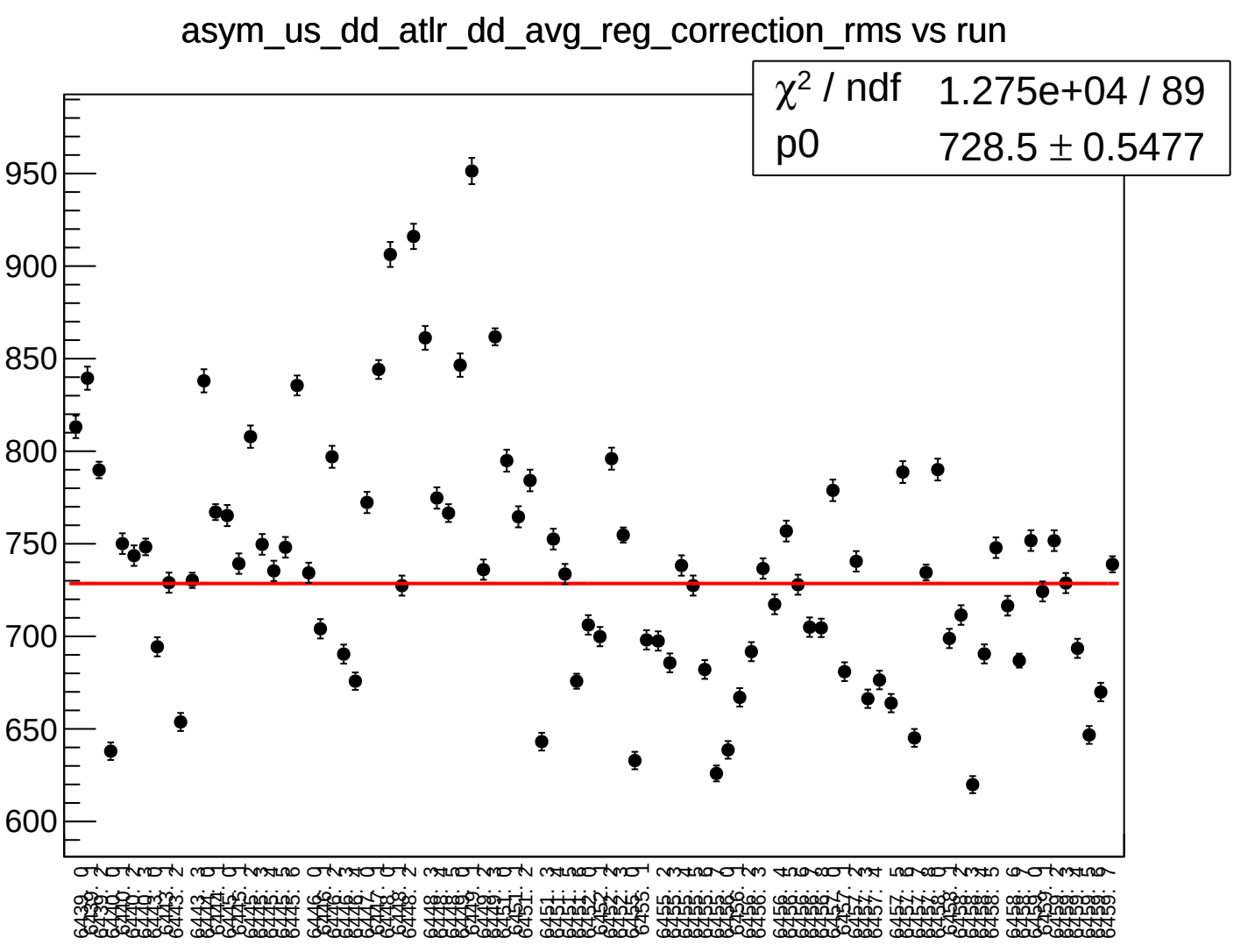

reg_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 96.43 / 89
p0 −1245 ± 1908
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 83.87
Std Dev 45.93
2
1
0
−1
−2

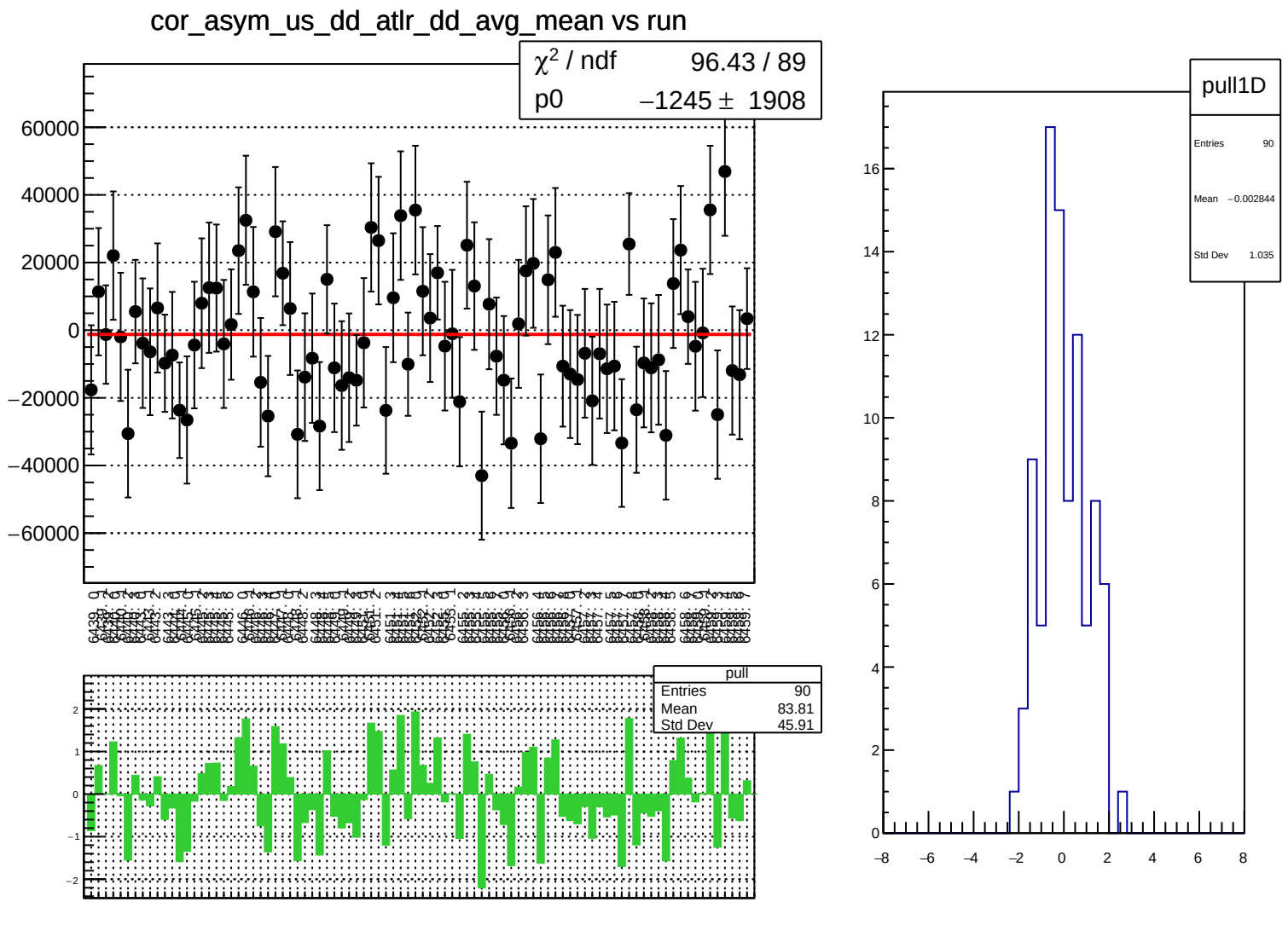

pull1D
Entries 90
Mean −0.002843
Std Dev 1.035
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

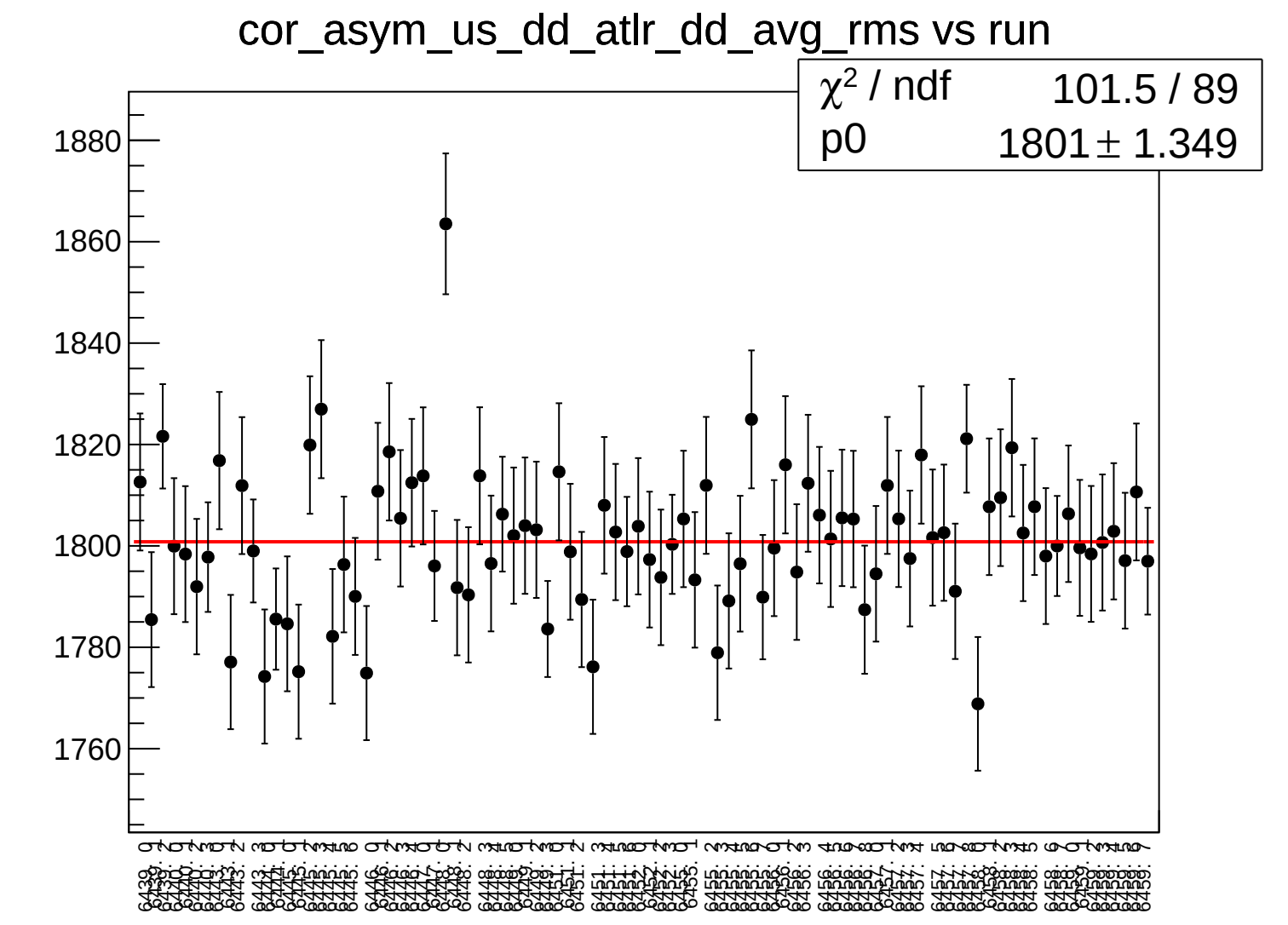

reg_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 101.5 / 89
p0 1801 ± 1.349
1880
1860
1840
1820
1800
1780
1760

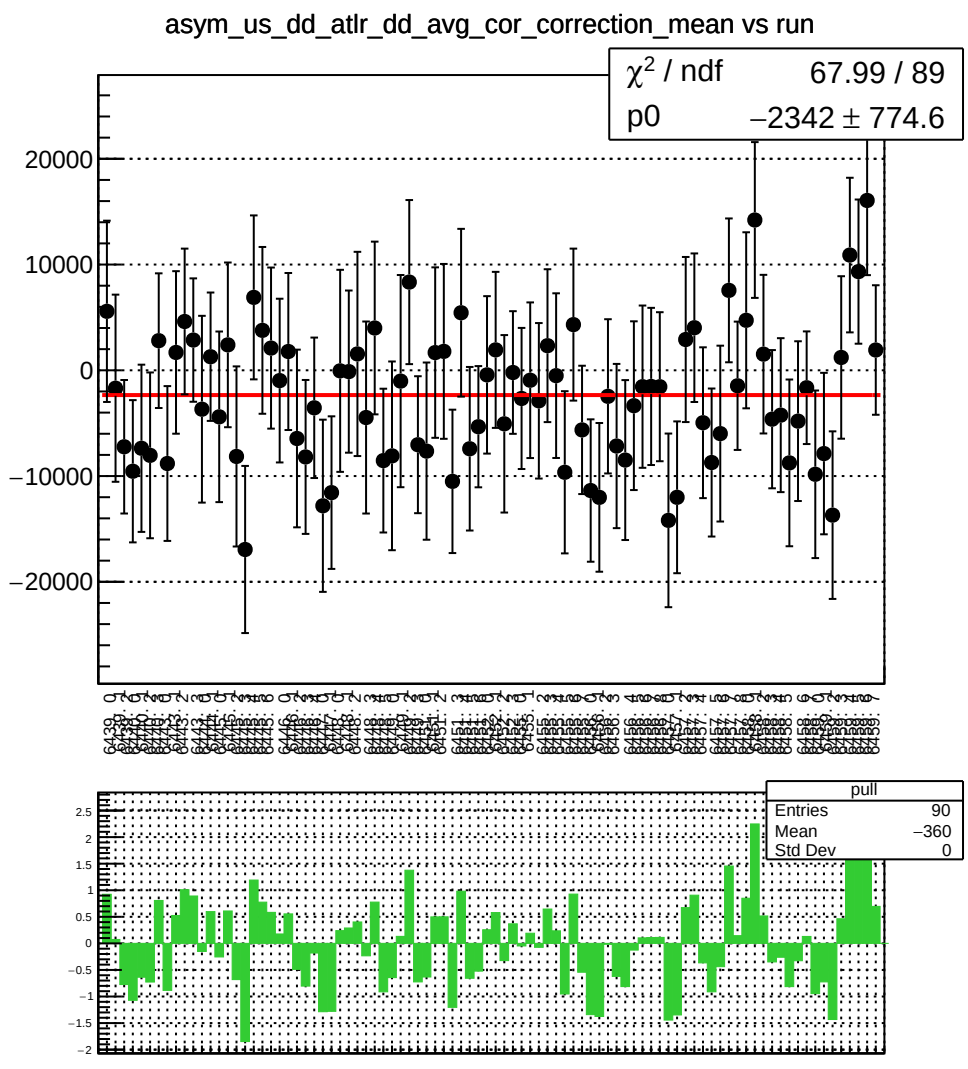

asym_us_dd_atlr_dd_avg_reg_correction_mean vs run
χ² / ndf 67.99 / 89
p0 −2342 ± 774.6
20000
10000
0
−10000
−20000
pull
Entries 90
Mean −361
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

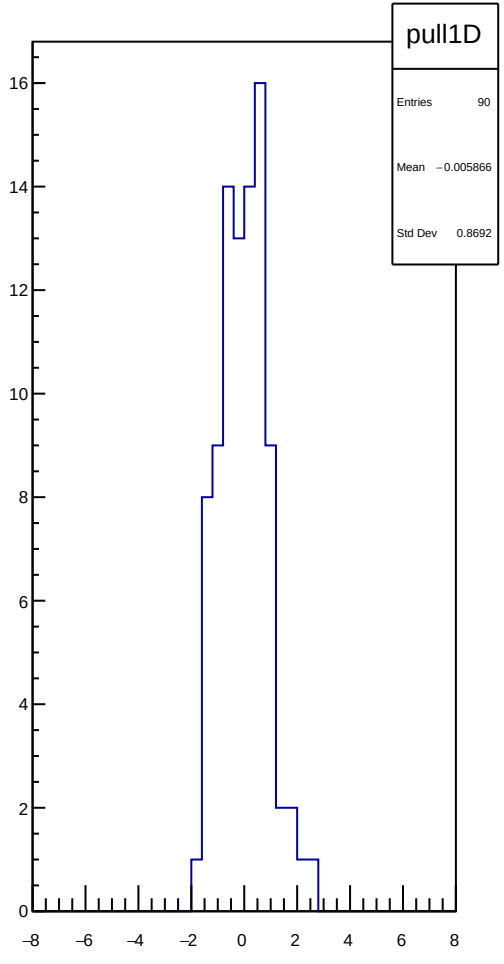

pull1D
Entries 90
Mean −0.005849
Std Dev 0.8691
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

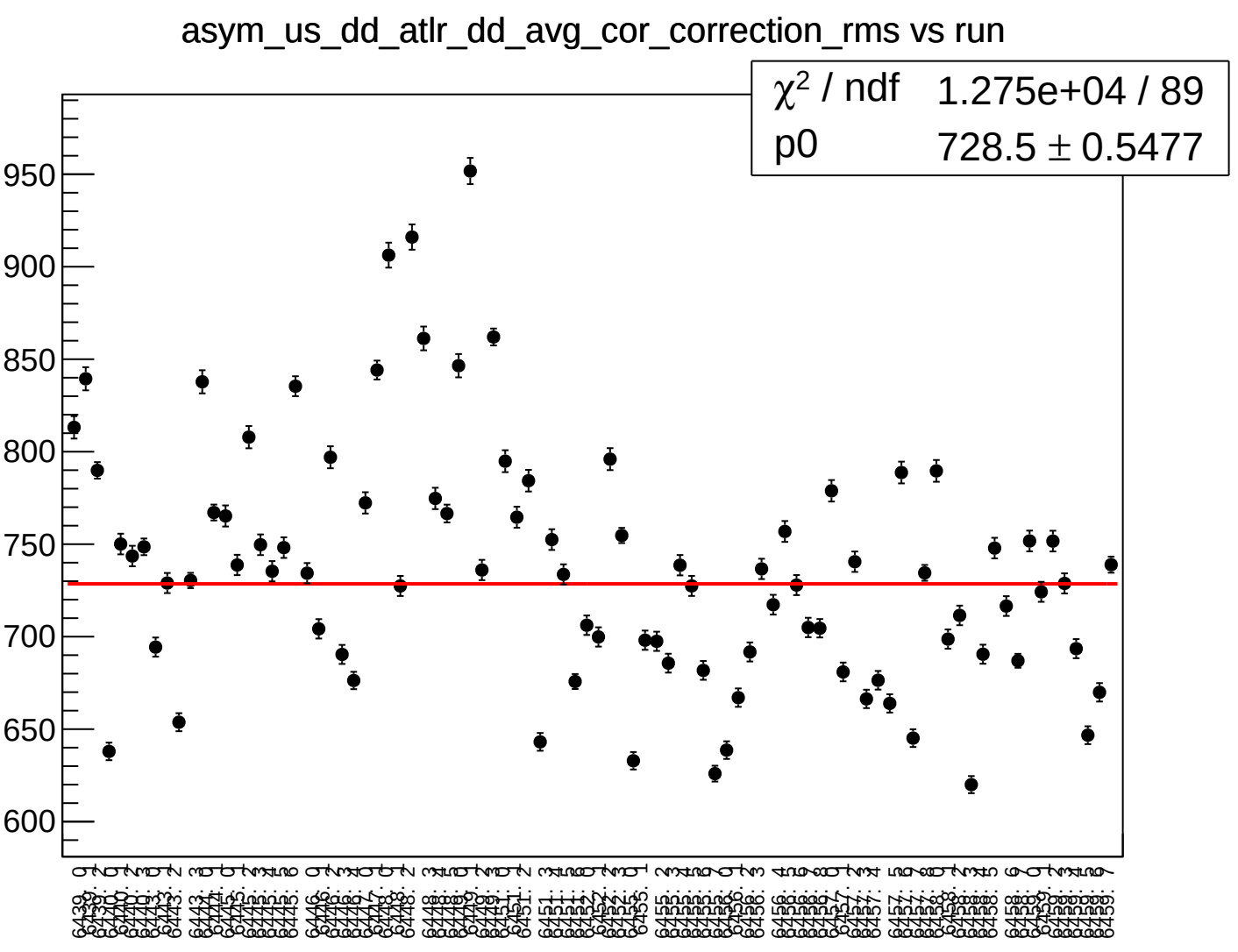

asym_us_dd_atlr_dd_avg_reg_correction_rms vs run
χ² / ndf 1.275e+04 / 89
p0 728.5 ± 0.5477
950
900
850
800
750
700
650
600

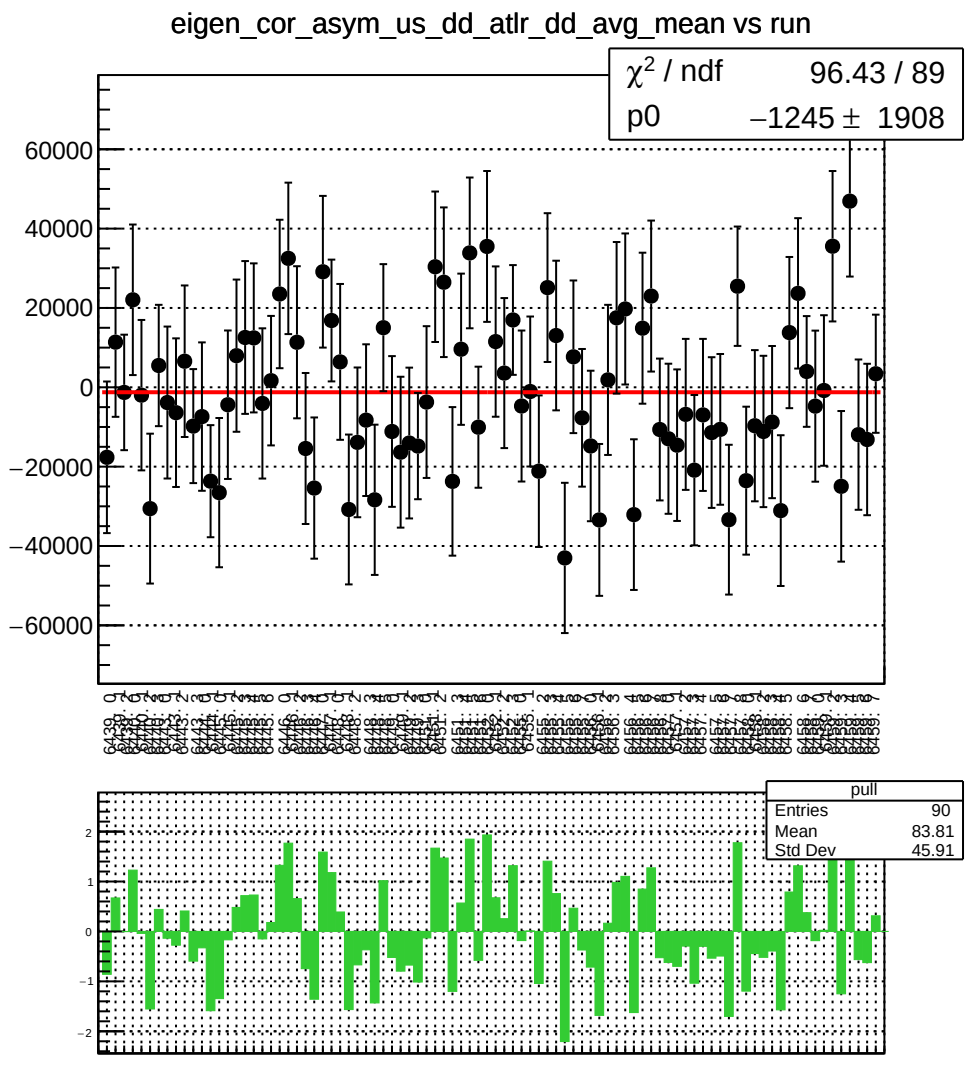

cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 96.43 / 89
p0 −1245 ± 1908
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 83.81
Std Dev 45.91
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.002844
Std Dev 1.035
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

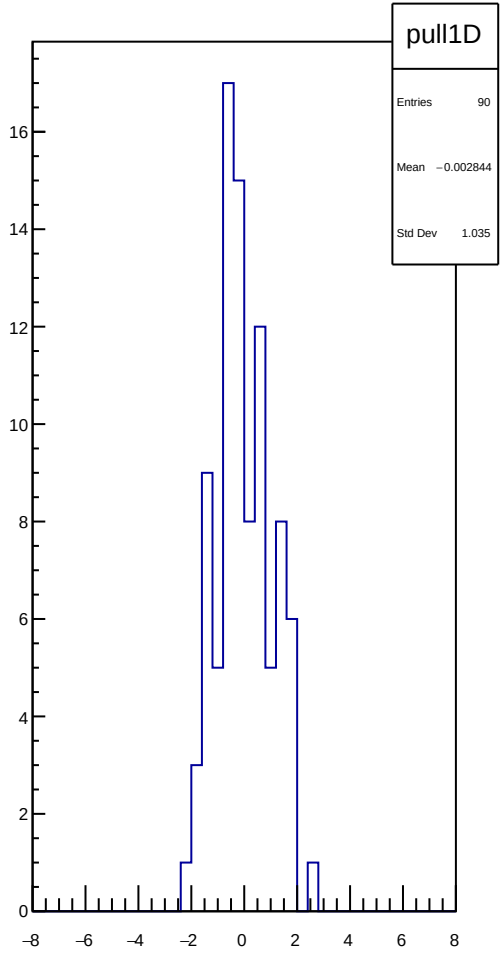

cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 101.5 / 89
p0 1801 ± 1.349
1880
1860
1840
1820
1800
1780
1760


asym_us_dd_atlr_dd_avg_cor_correction_mean vs run
χ² / ndf 67.99 / 89
p0 −2342 ± 774.6
20000
10000
0
−10000
−20000
pull
Entries 90
Mean −360
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 90
Mean −0.005866
Std Dev 0.8692
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 1.275e+04 / 89
p0 728.5 ± 0.5477
950
900
850
800
750
700
650
600


eigen_cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 96.43 / 89
p0 −1245 ± 1908
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 83.81
Std Dev 45.91
2
1
0
−1
−2


pull1D
Entries 90
Mean −0.002844
Std Dev 1.035
16
14
12
10
8
6
4
2
0
−8
−6
−4
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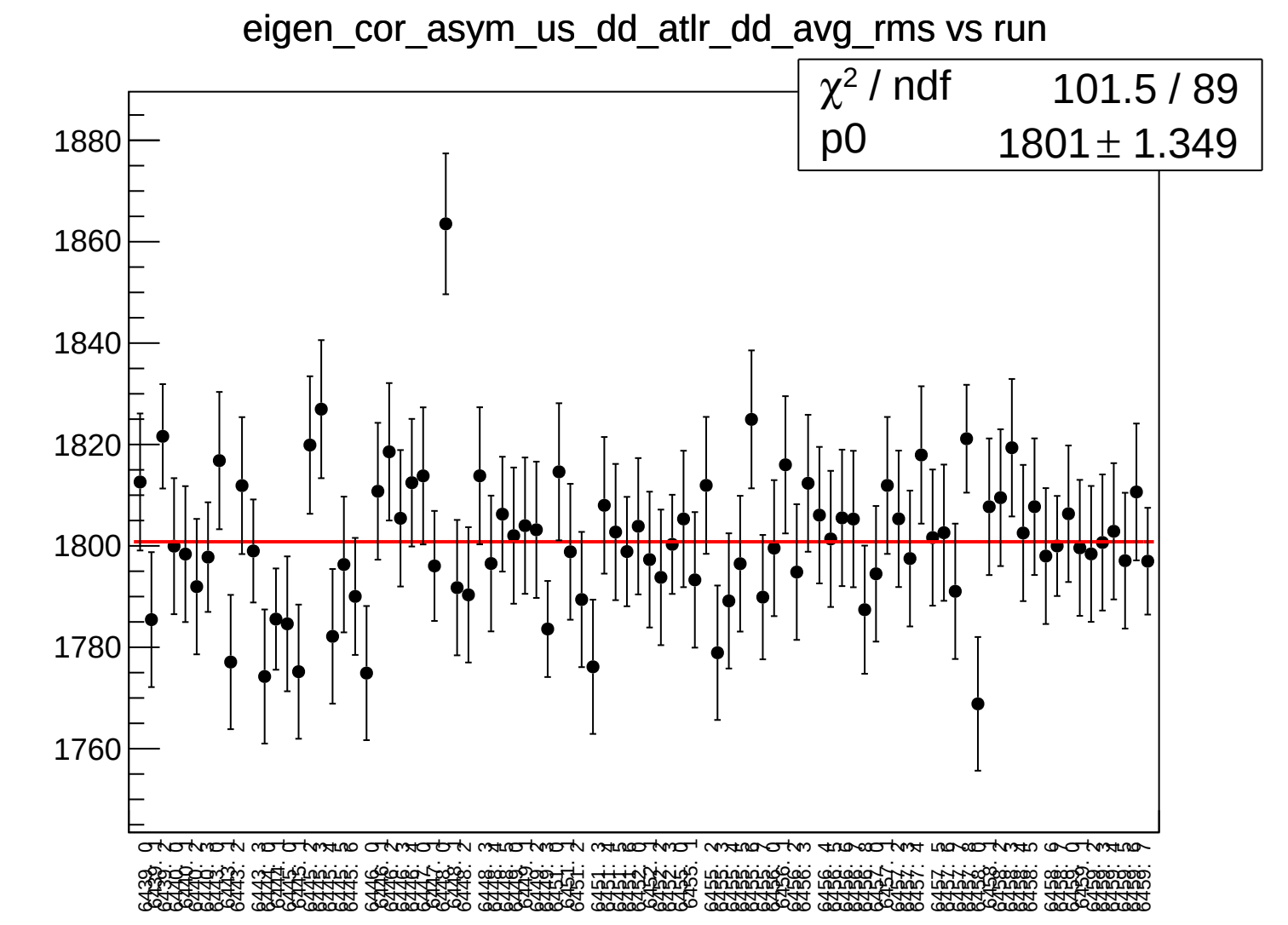
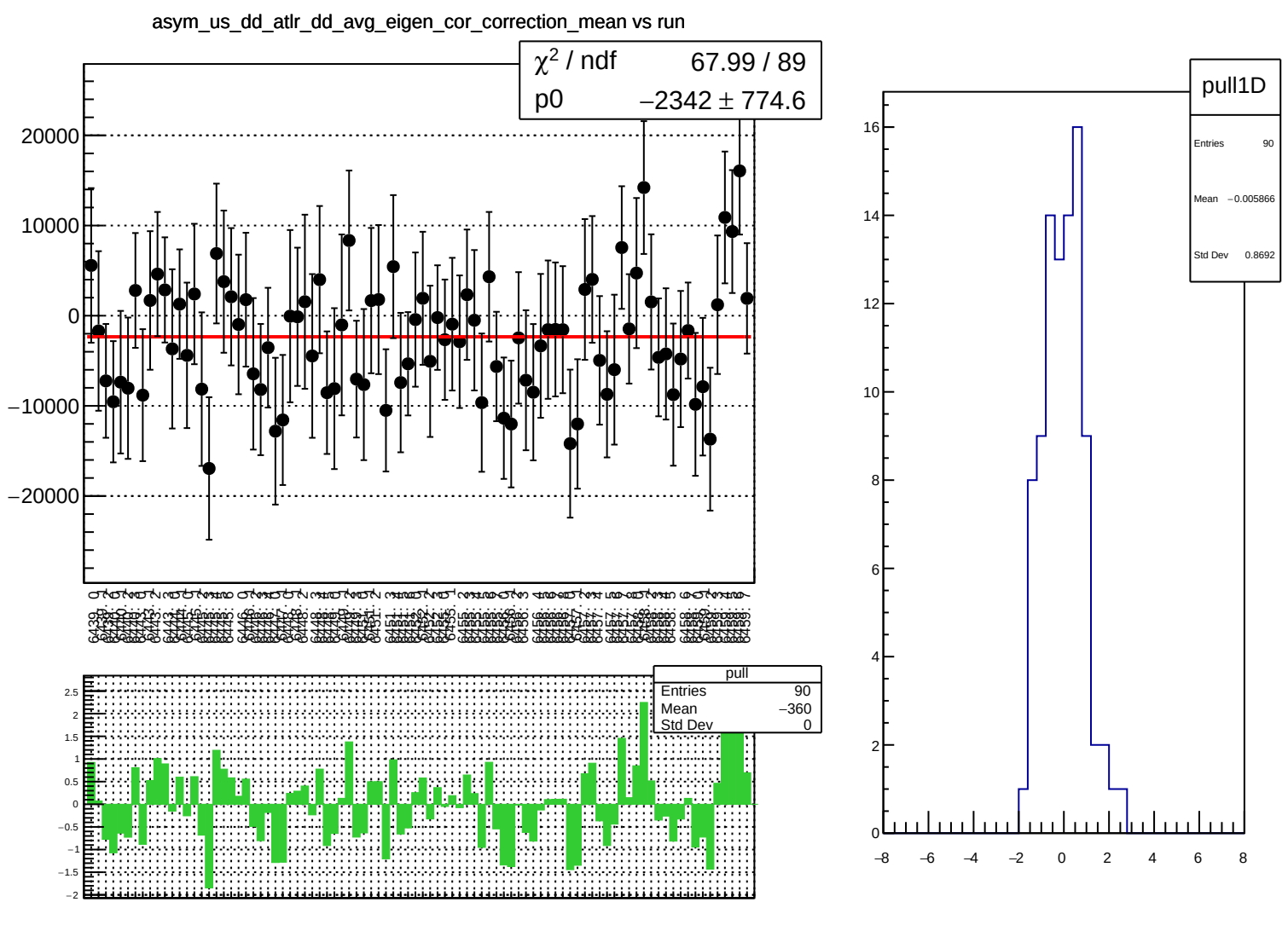
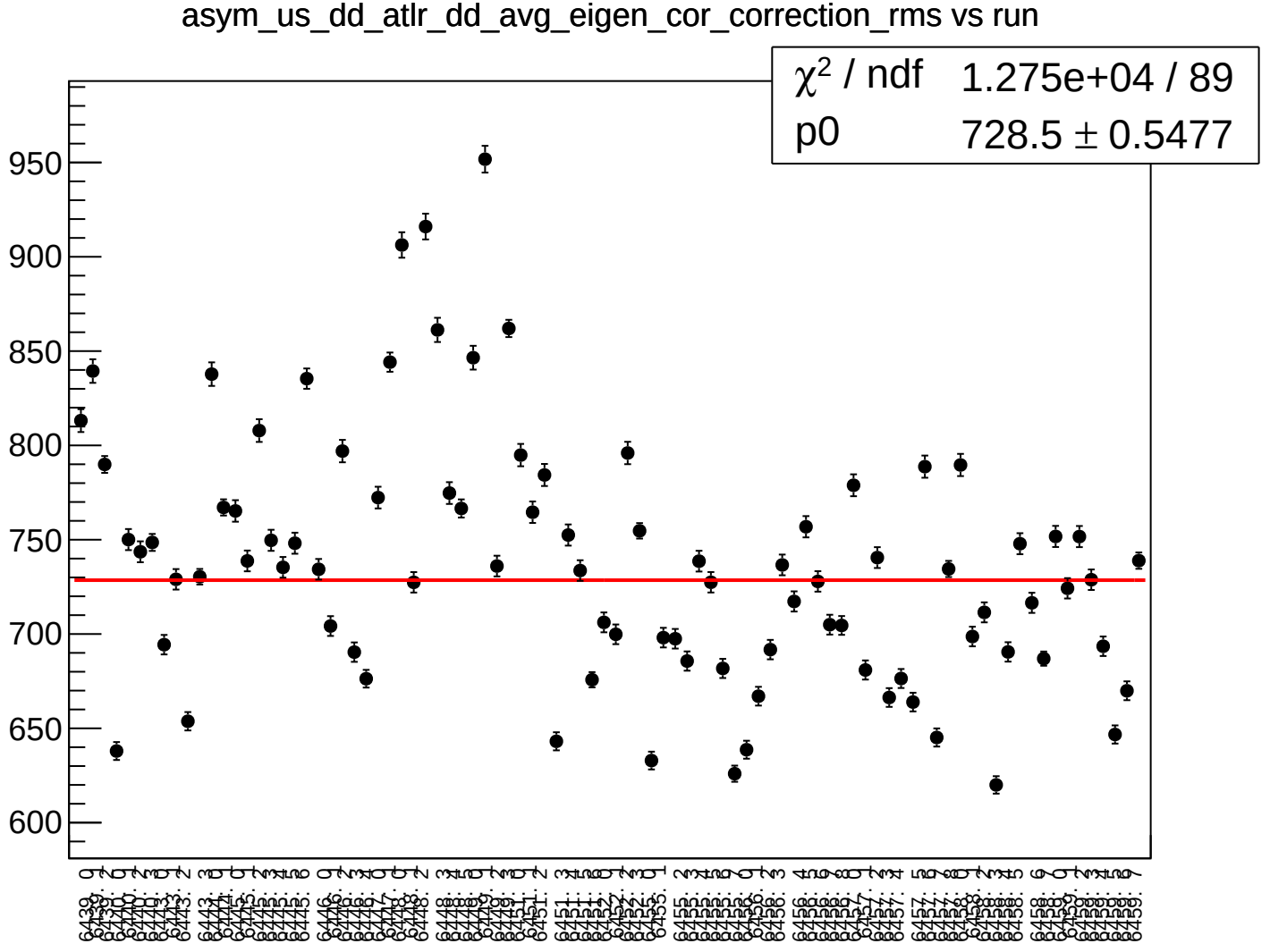
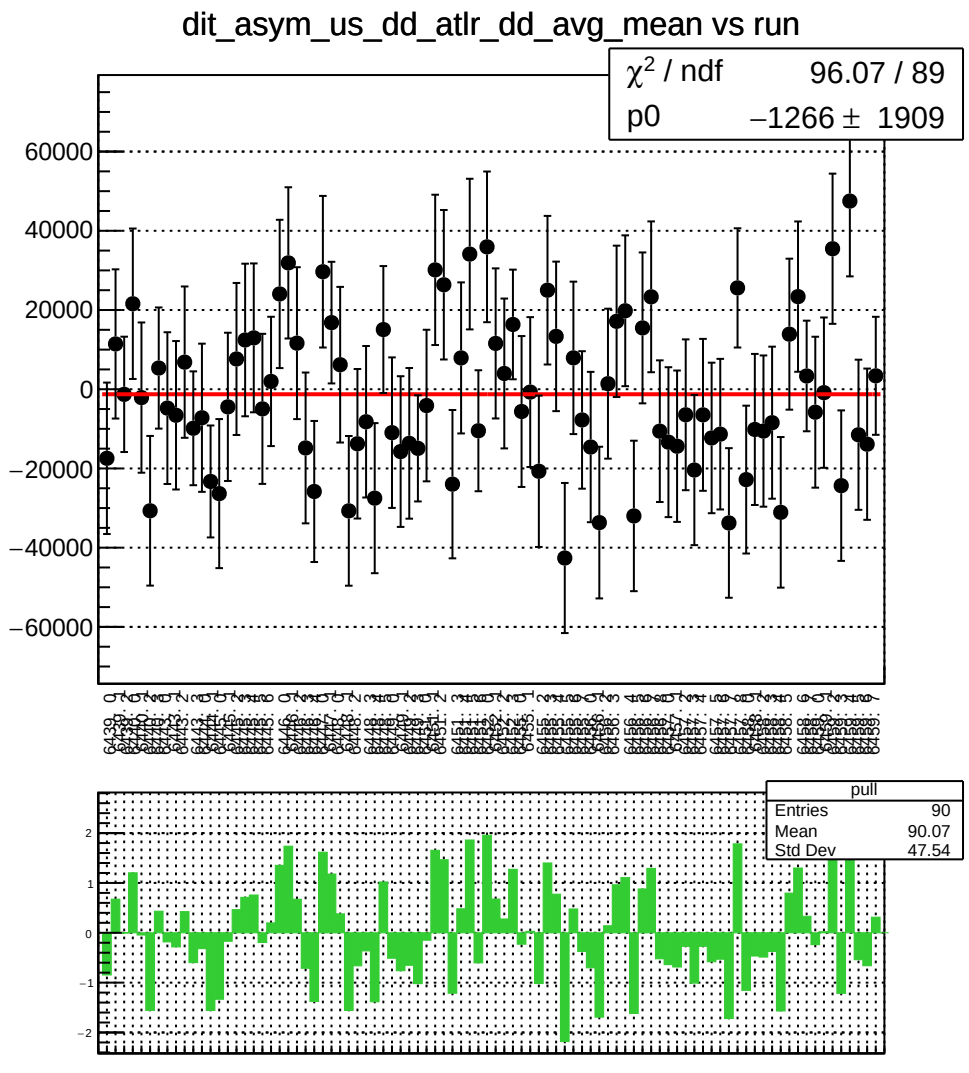
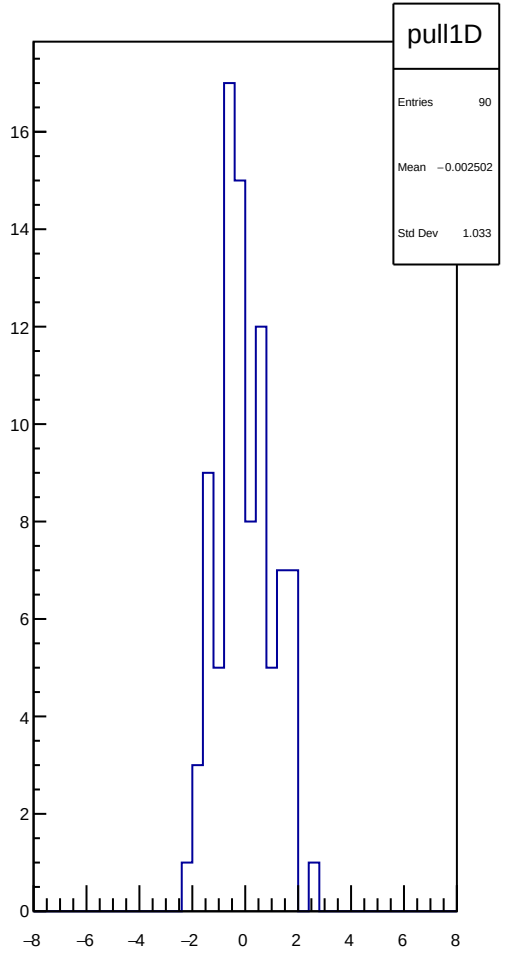
0
2
4
6
8

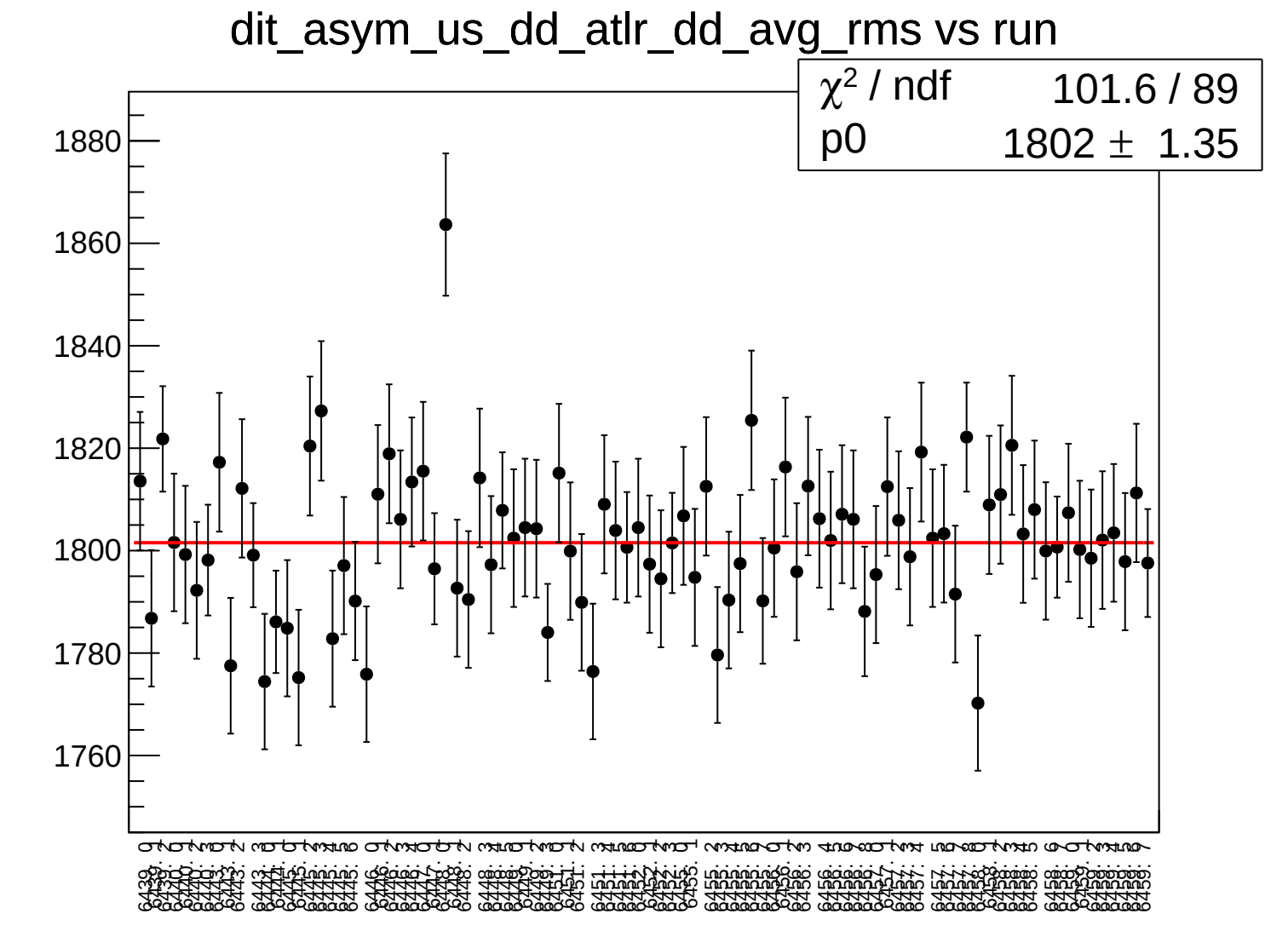

eigen_cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 101.5 / 89
p0 1801 ± 1.349
1880
1860
1840
1820
1800
1780
1760

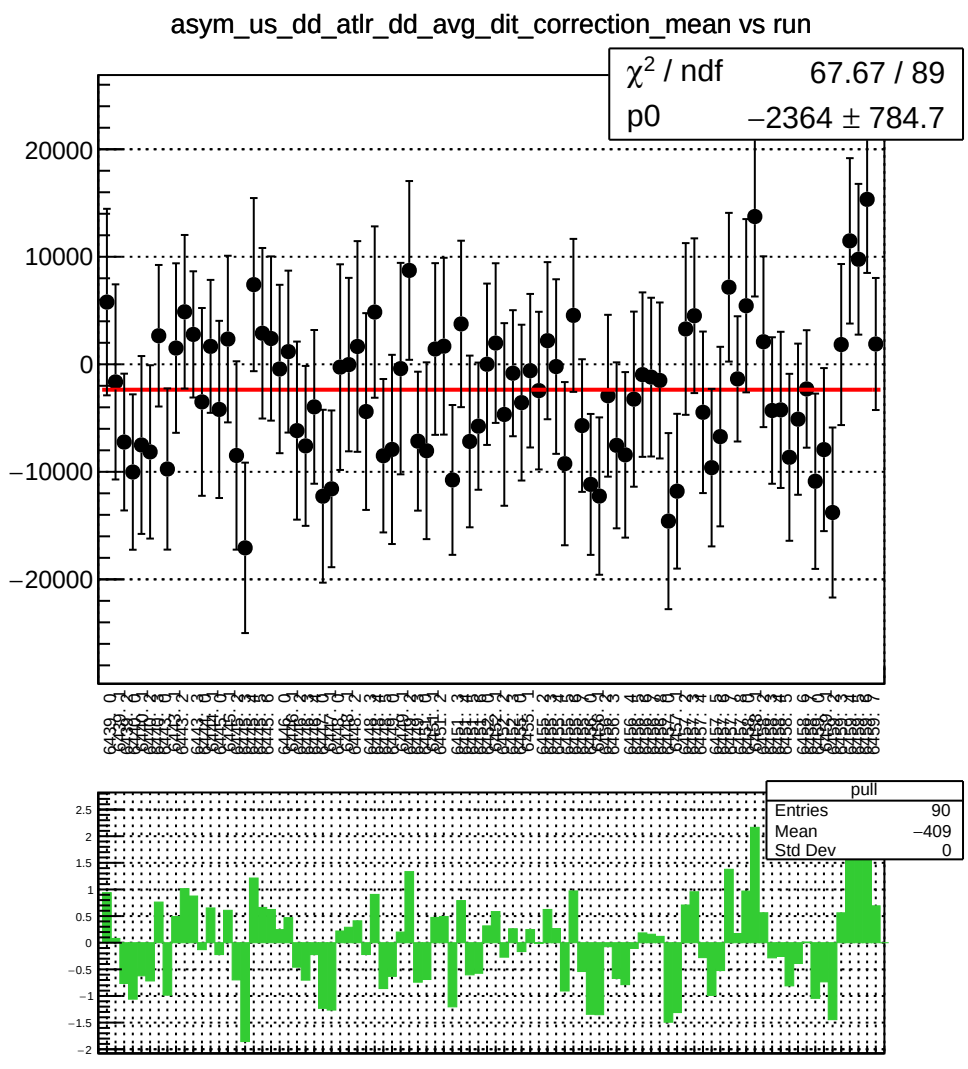

asym_us_dd_atlr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 67.99 / 89
p0 −2342 ± 774.6
20000
10000
0
−10000
−20000
pull
Entries 90
Mean −360
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 90
Mean −0.005866
Std Dev 0.8692
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

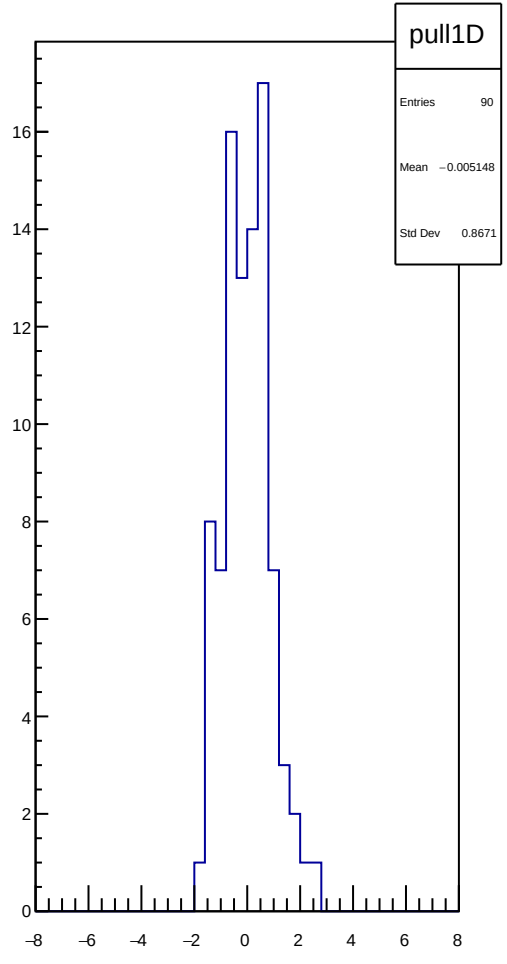

asym_us_dd_atlr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.275e+04 / 89
p0 728.5 ± 0.5477
950
900
850
800
750
700
650
600

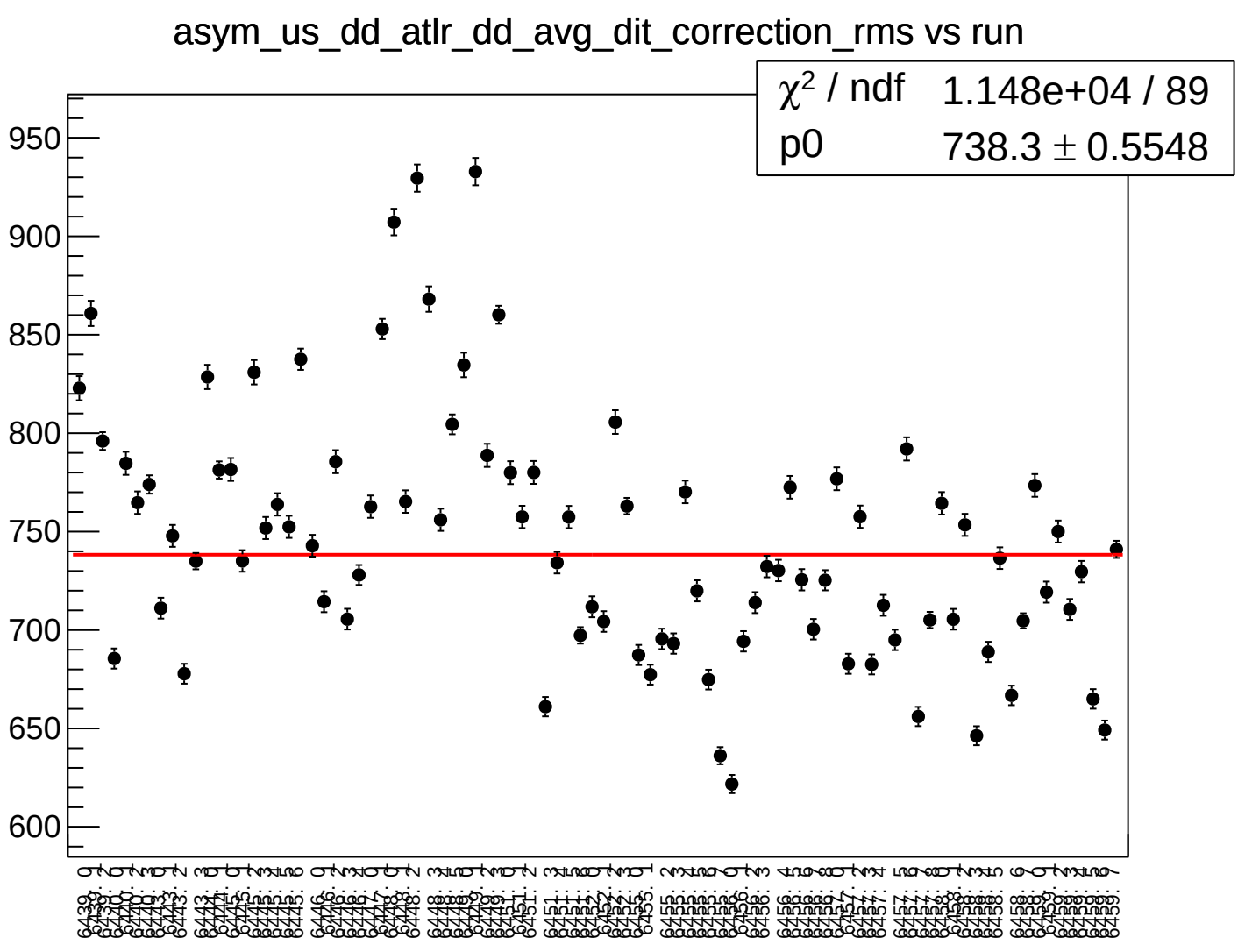

dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 96.07 / 89
p0 −1266 ± 1909
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 90.07
Std Dev 47.54
2
1
0
−1
−2

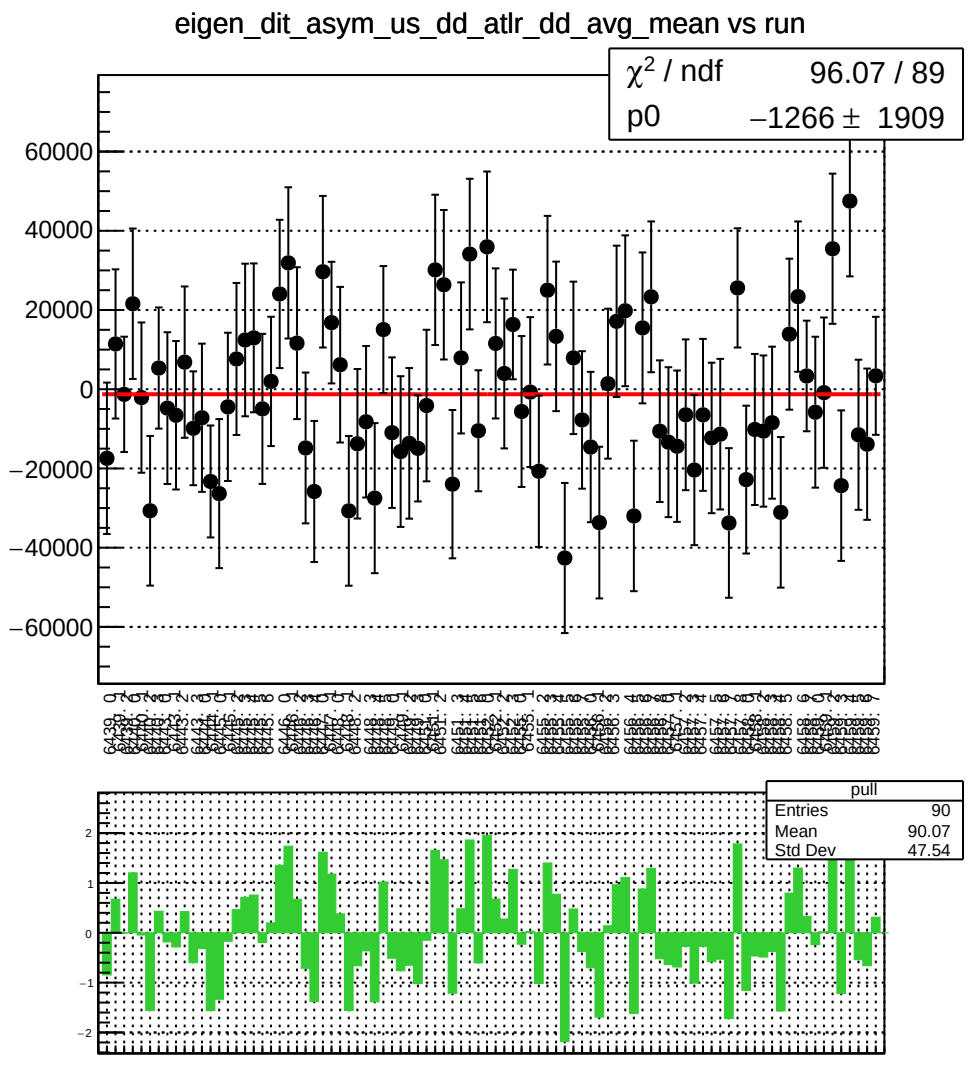

pull1D
Entries 90
Mean −0.002502
Std Dev 1.033
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

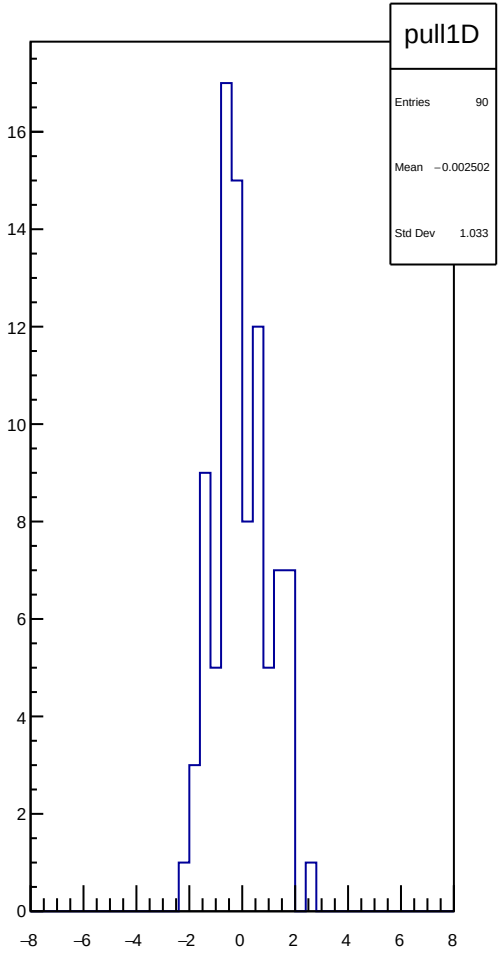

dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 101.6 / 89
p0 1802 ± 1.35
1880
1860
1840
1820
1800
1780
1760

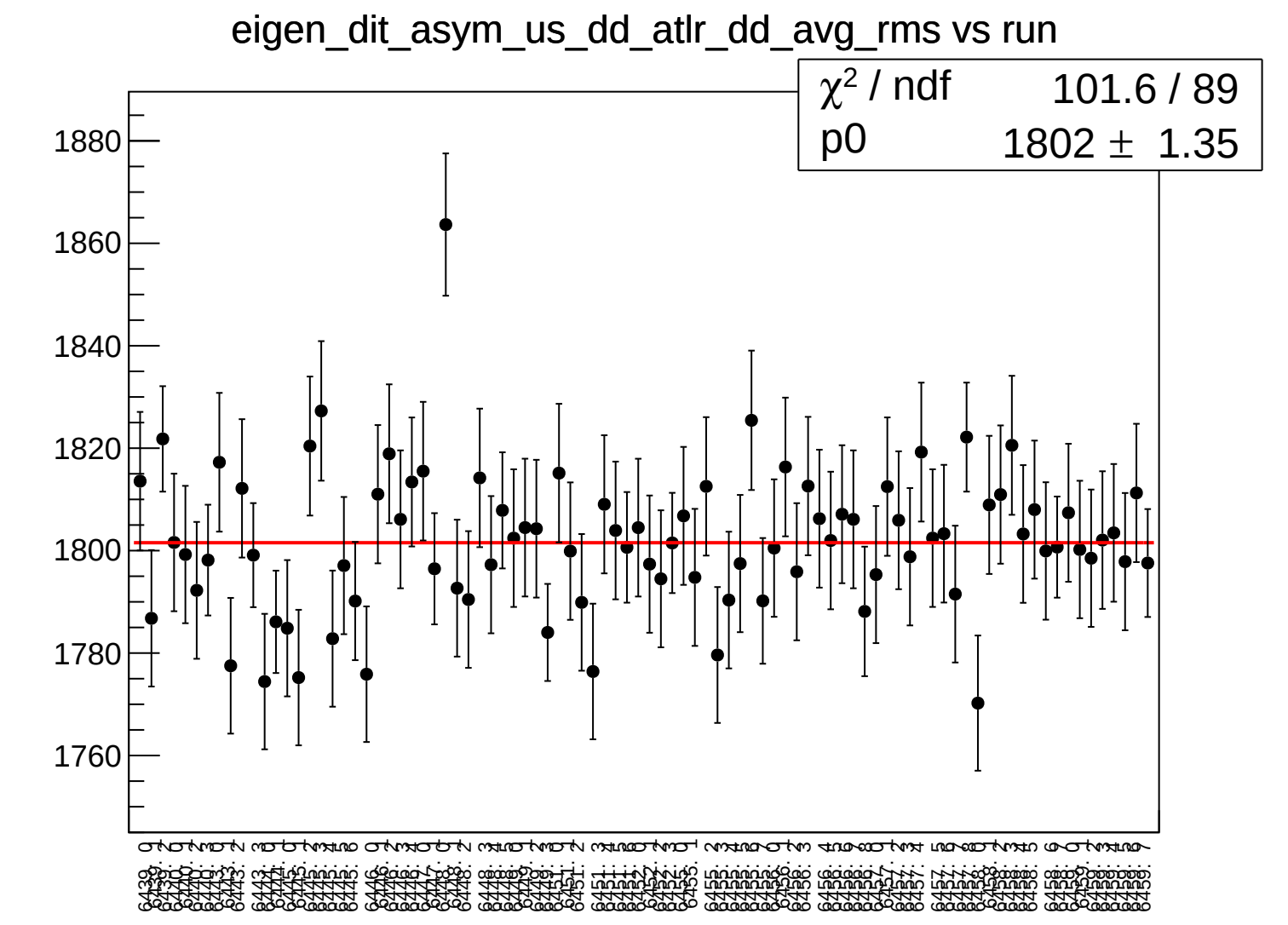

asym_us_dd_atlr_dd_avg_dit_correction_mean vs run
χ² / ndf 67.67 / 89
p0 −2364 ± 784.7
20000
10000
0
−10000
−20000
pull
Entries 90
Mean −409
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

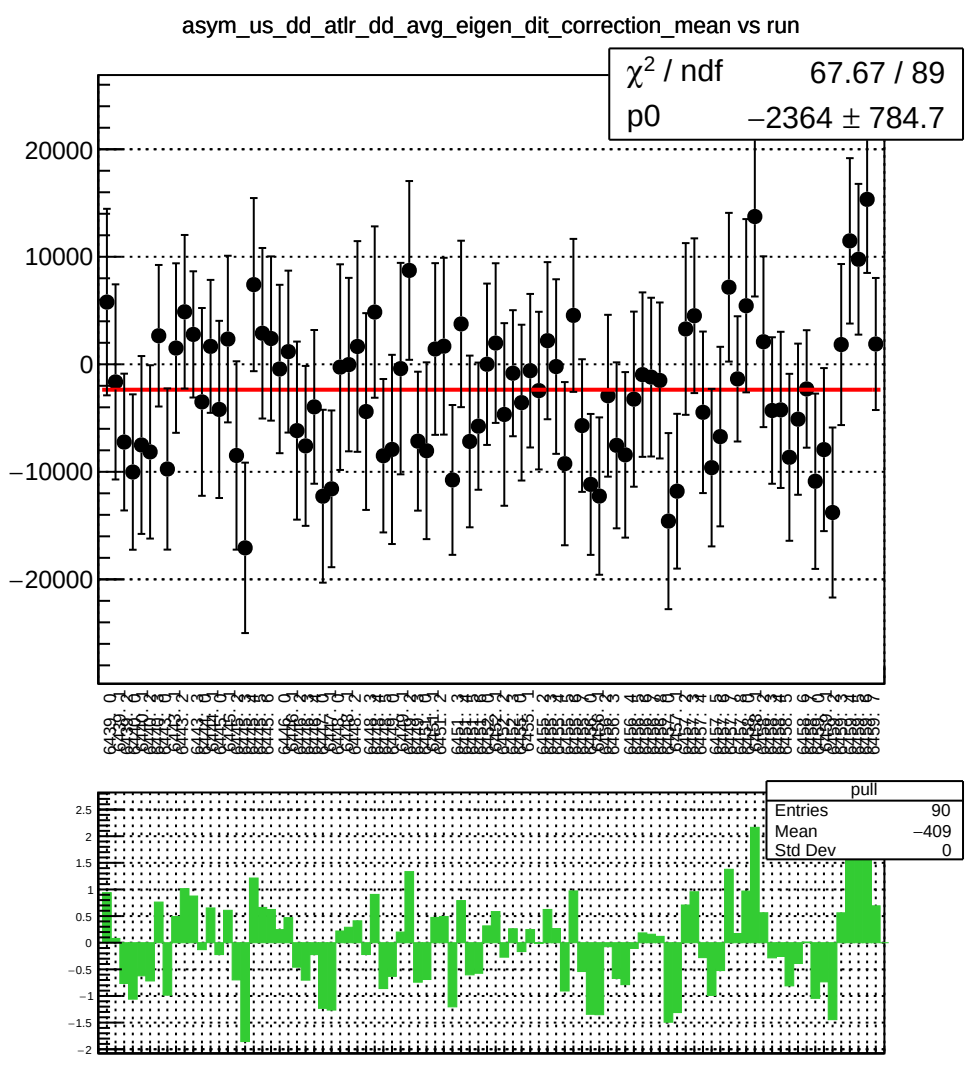

pull1D
Entries 90
Mean −0.005148
Std Dev 0.8671
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

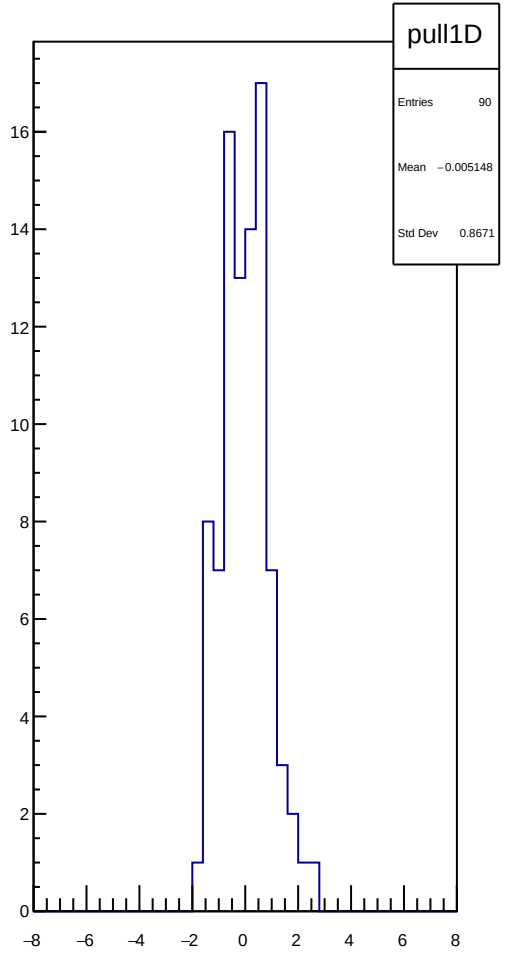

asym_us_dd_atlr_dd_avg_dit_correction_rms vs run
χ² / ndf 1.148e+04 / 89
p0 738.3 ± 0.5548
950
900
850
800
750
700
650
600

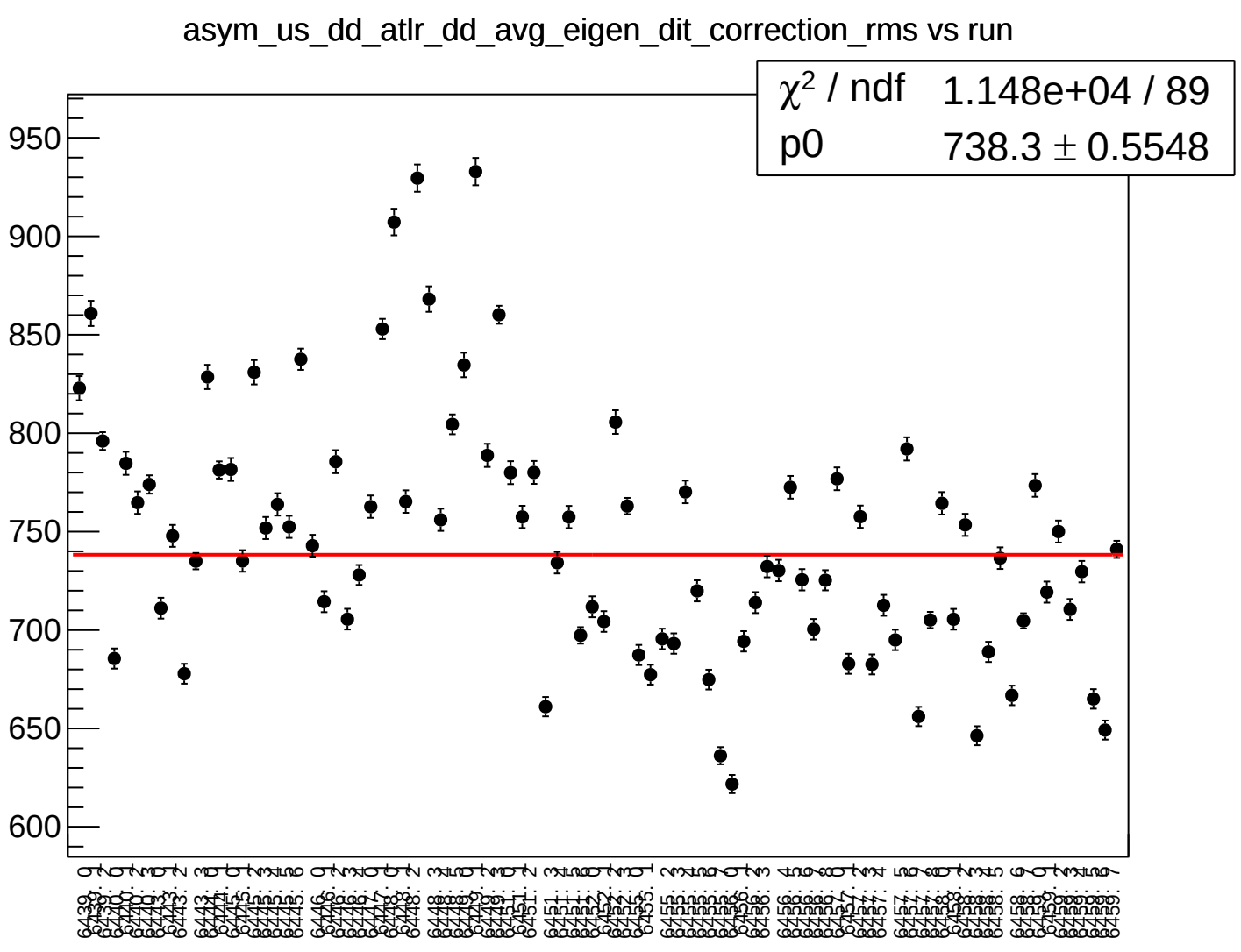

eigen_dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 96.07 / 89
p0 −1266 ± 1909
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 90.07
Std Dev 47.54
2
1
0
−1
−2

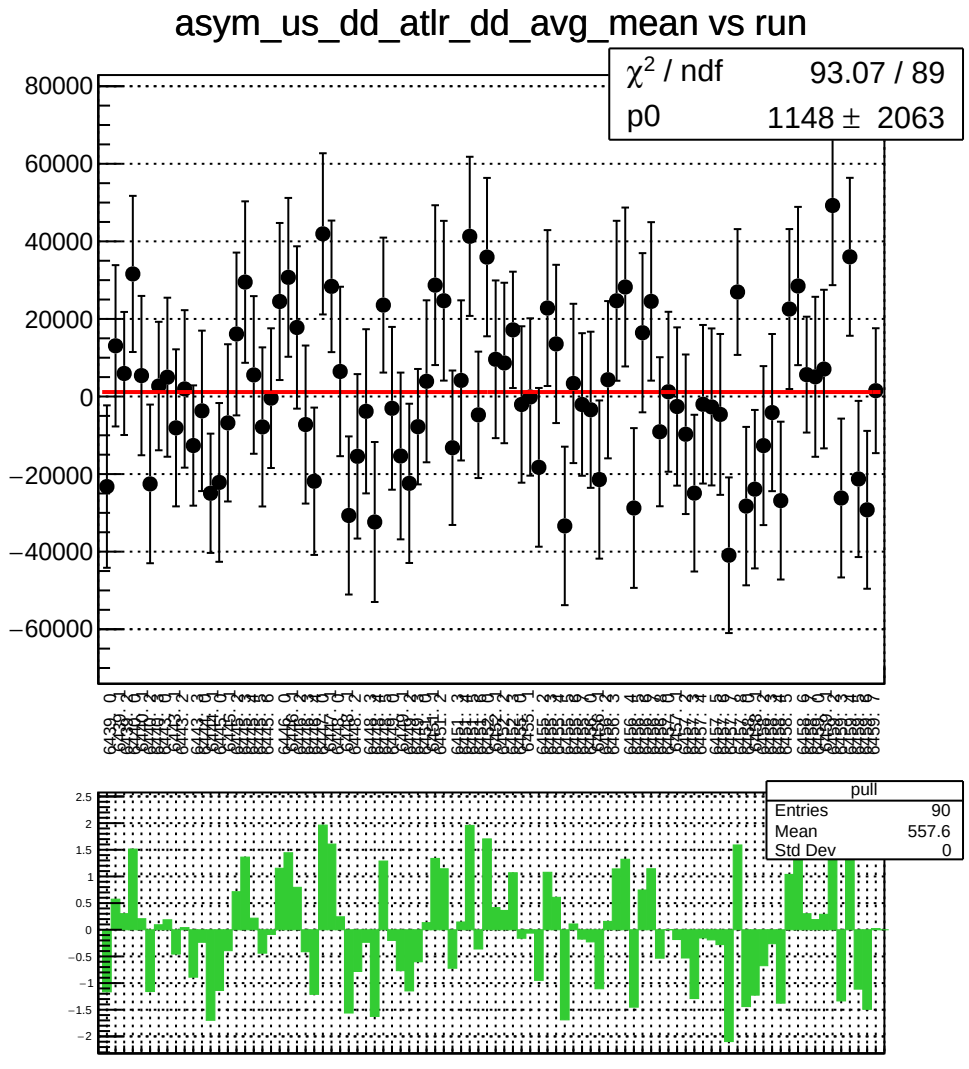

pull1D
Entries 90
Mean −0.002502
Std Dev 1.033
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

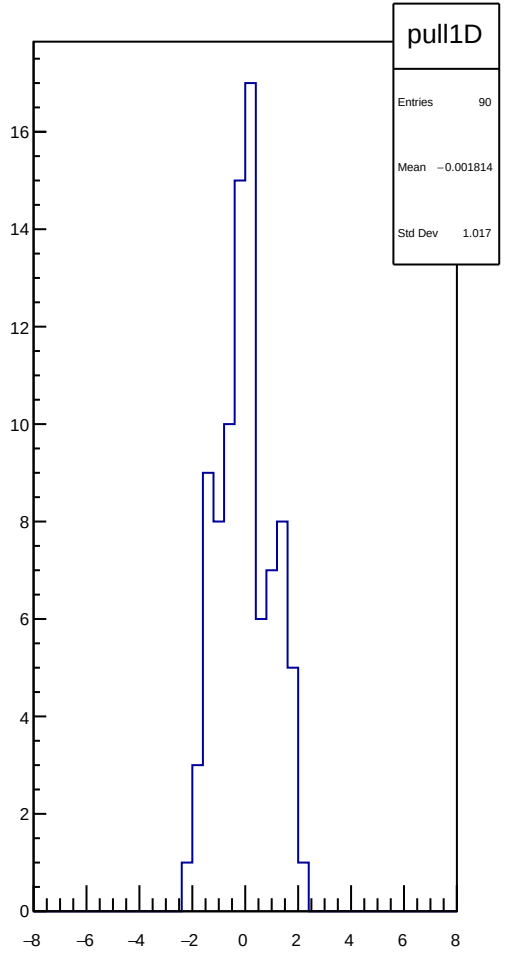

eigen_dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 101.6 / 89
p0 1802 ± 1.35
1880
1860
1840
1820
1800
1780
1760

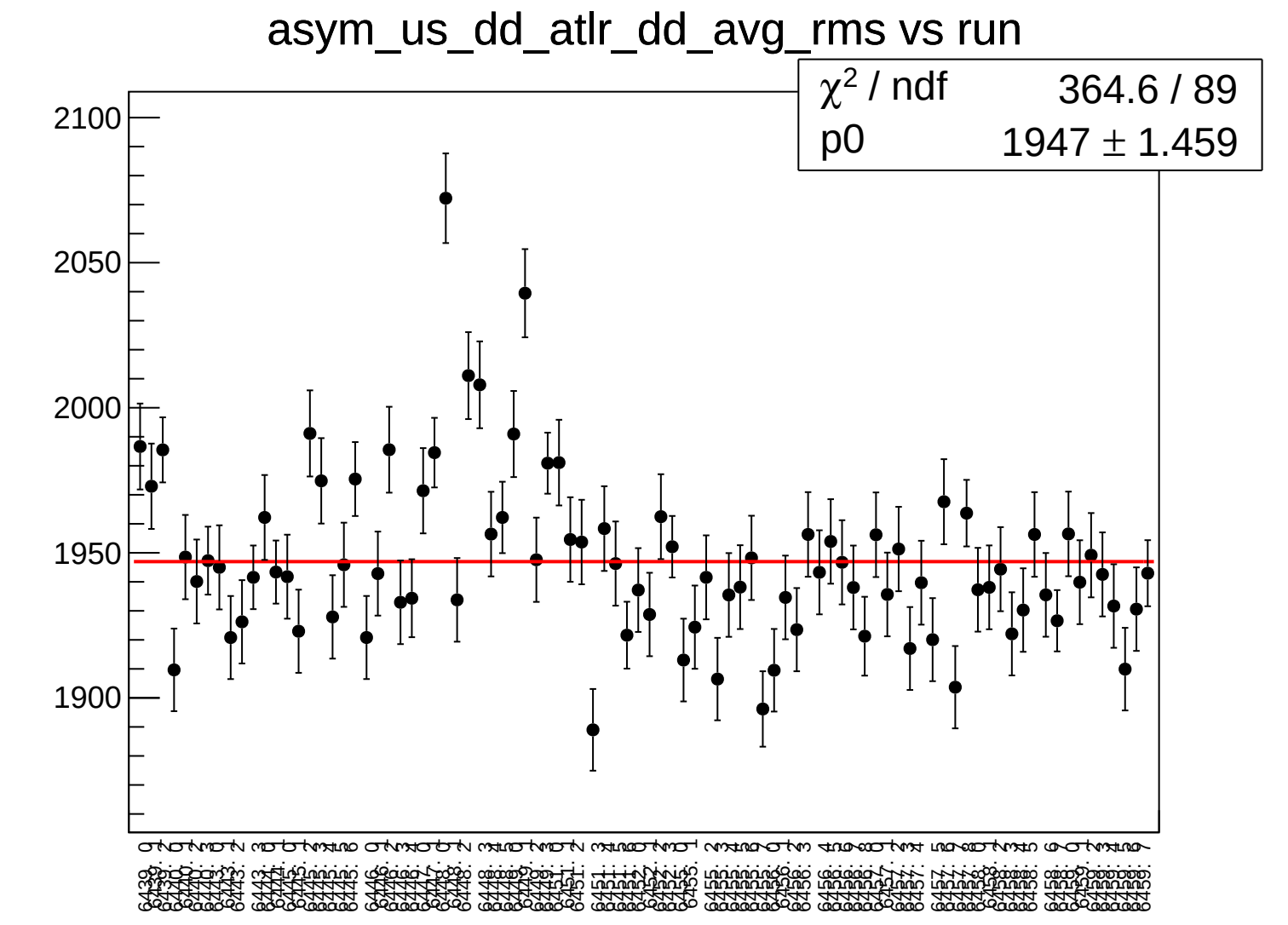

asym_us_dd_atlr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 67.67 / 89
p0 −2364 ± 784.7
20000
10000
0
−10000
−20000
pull
Entries 90
Mean −409
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

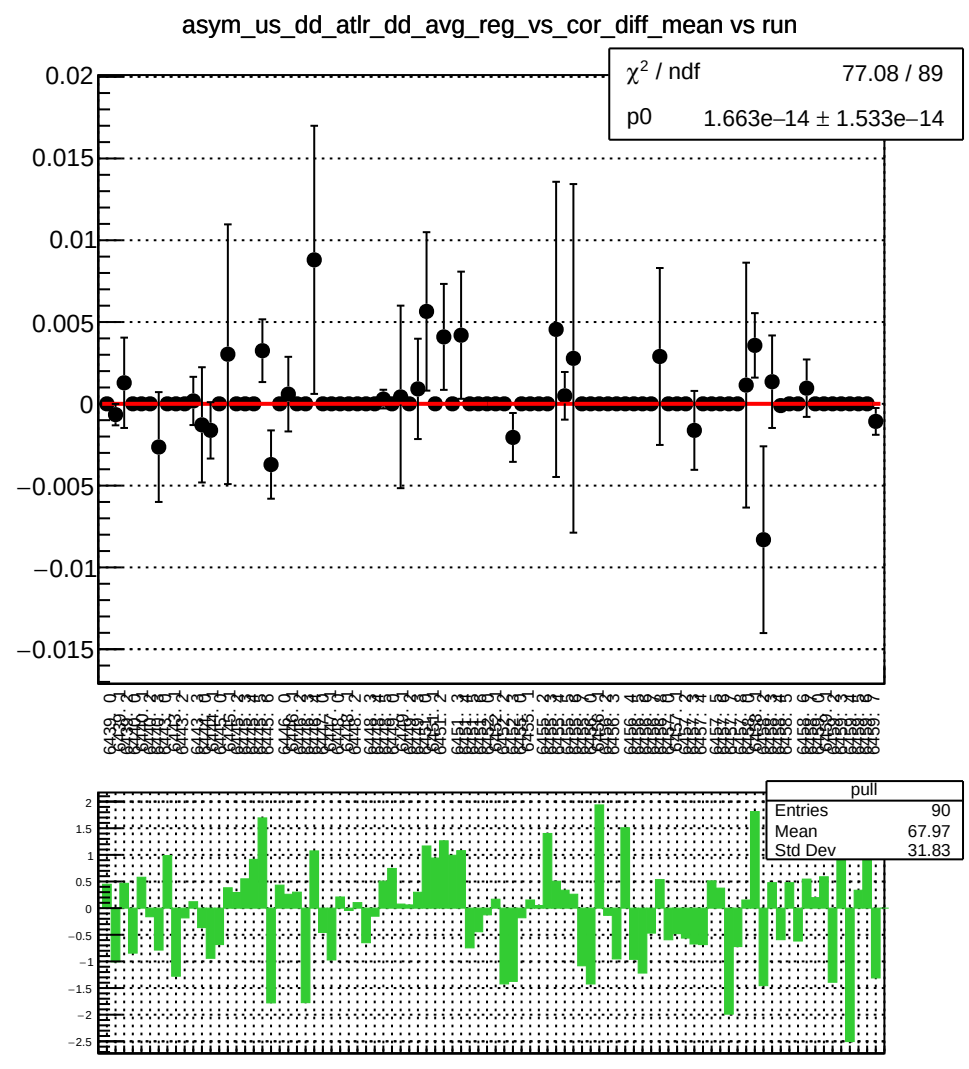

pull1D
Entries 90
Mean −0.005148
Std Dev 0.8671
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

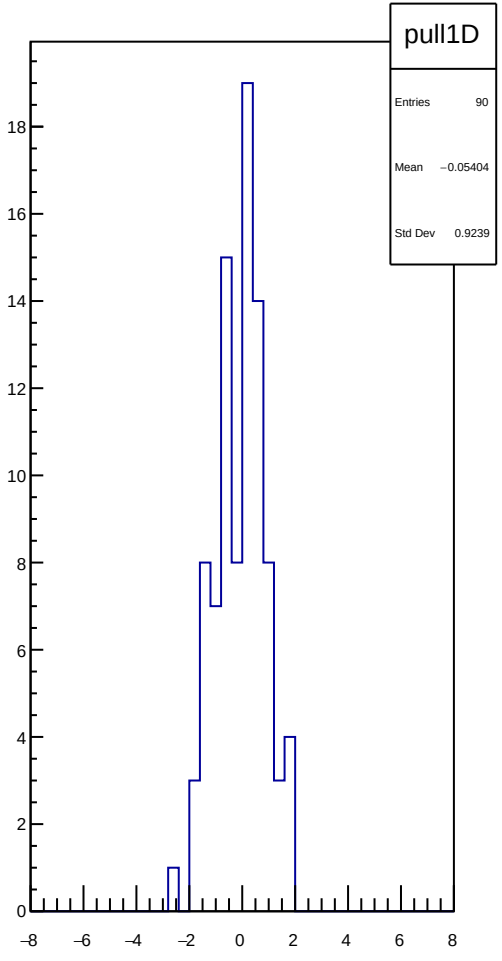

asym_us_dd_atlr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.148e+04 / 89
p0 738.3 ± 0.5548
950
900
850
800
750
700
650
600

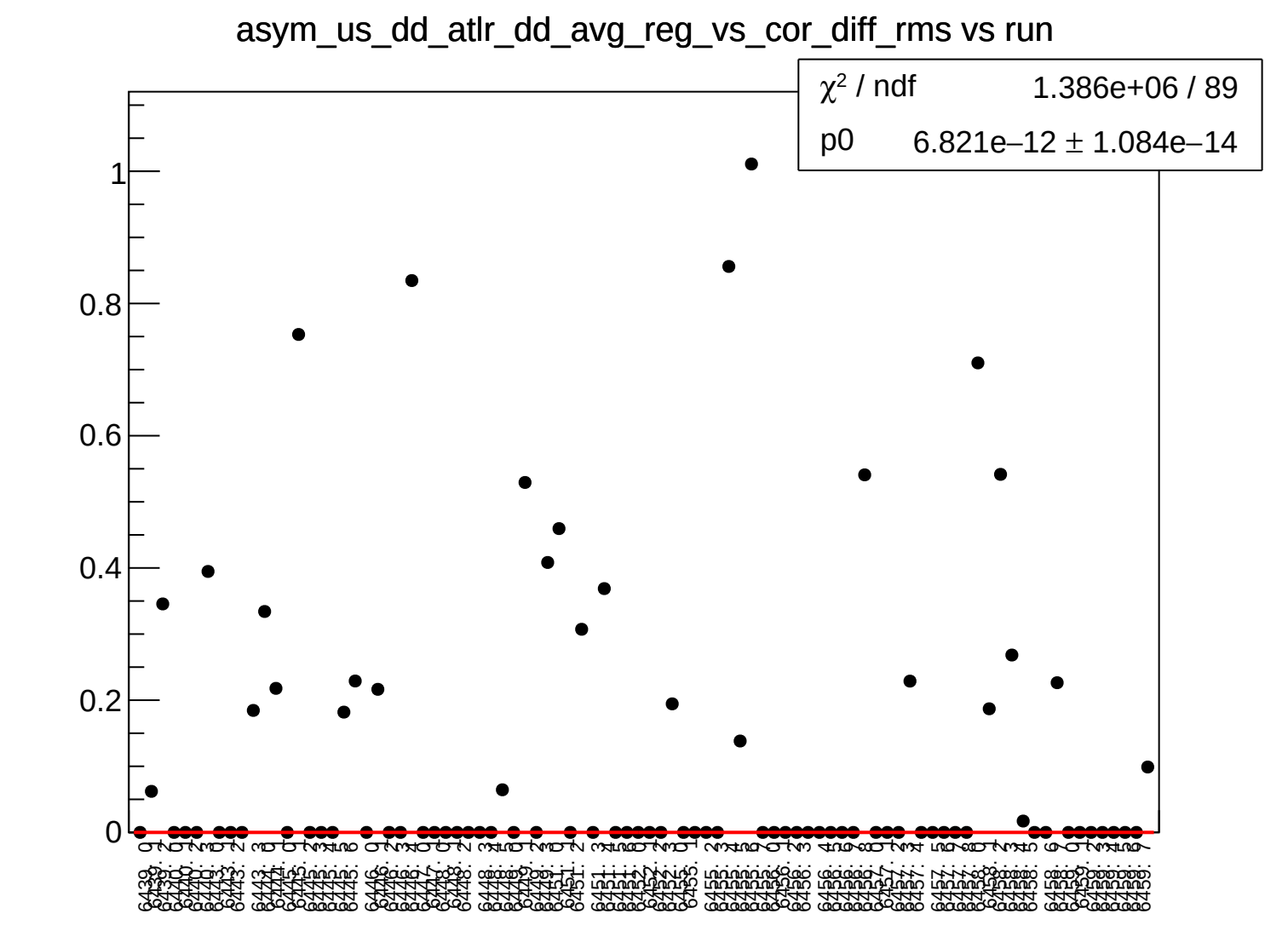

asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 93.07 / 89
p0 1148 ± 2063
pull
Entries 90
Mean 557.6
Std Dev 0

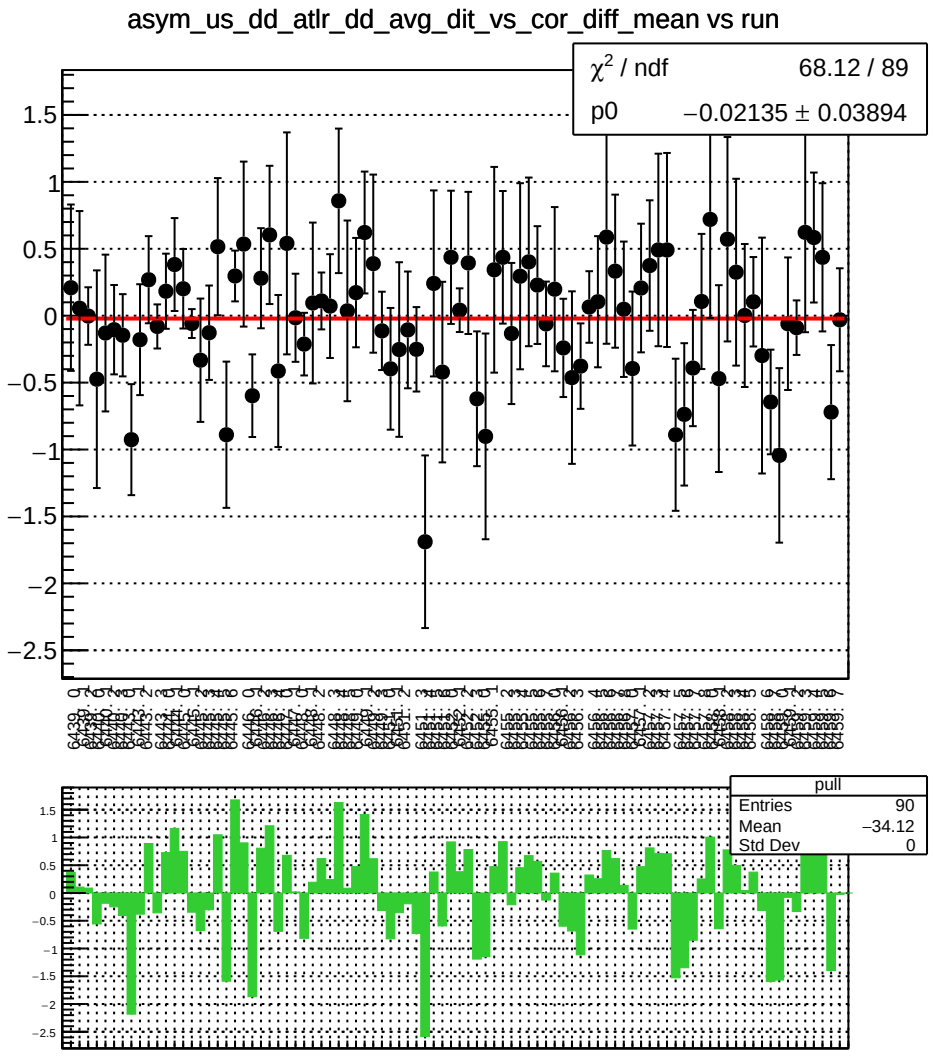

pull1D
Entries 90
Mean −0.001814
Std Dev 1.017

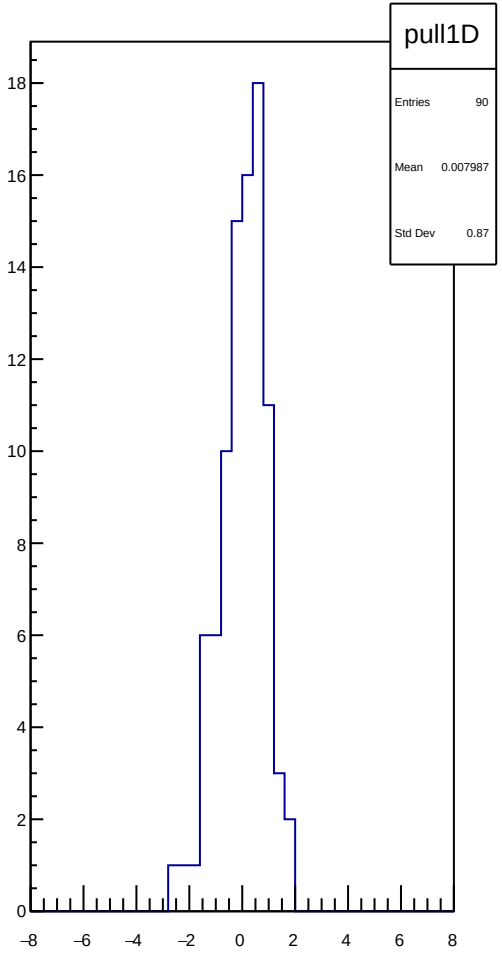

asym_us_dd_atlr_dd_avg_rms vs run
χ^2 / ndf 364.6 / 89
p0 1947 ± 1.459
2100
2050
2000
1950
1900

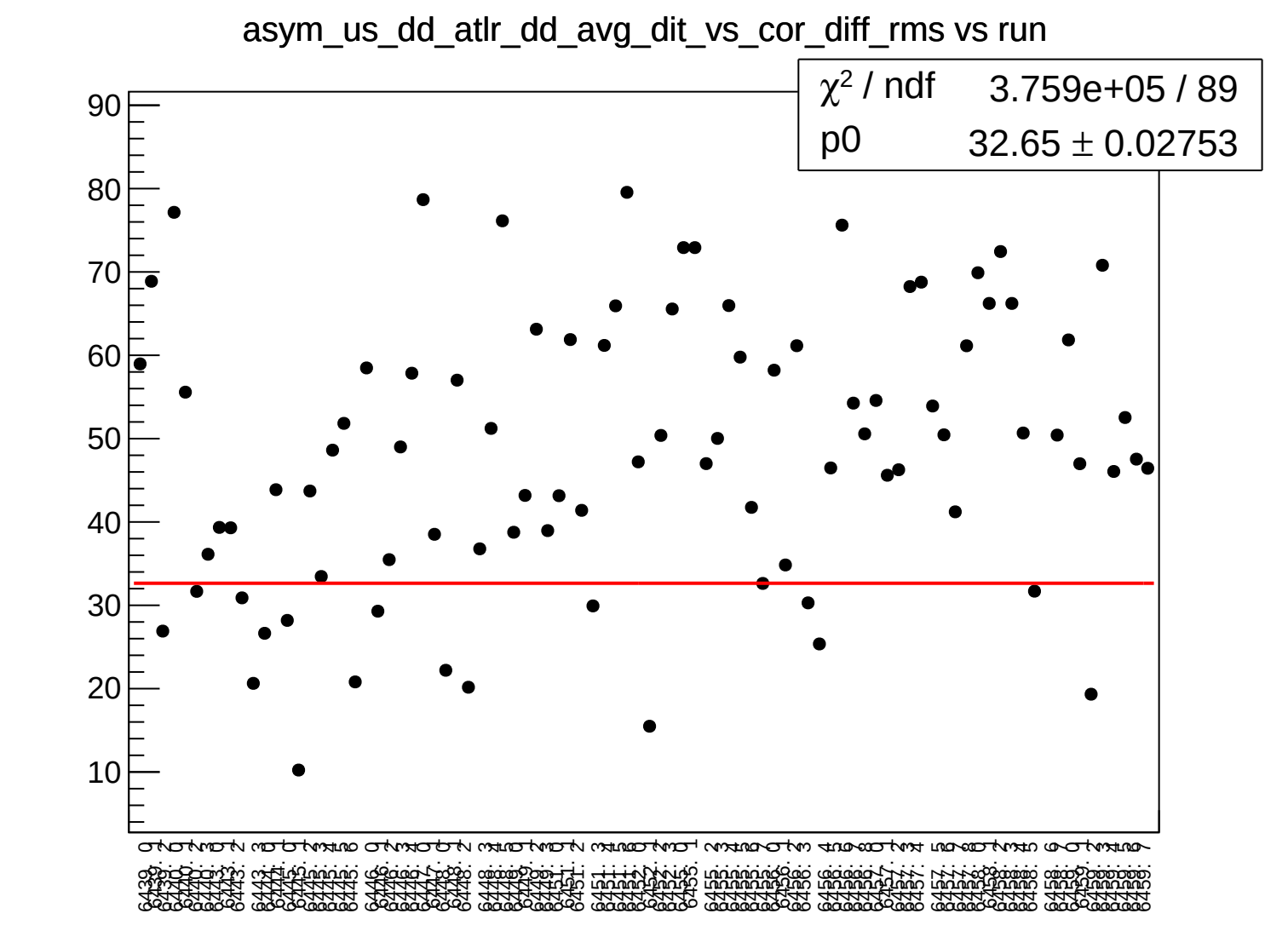

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 77.08 / 89
p0 1.663e−14 ± 1.533e−14
pull
Entries 90
Mean 67.97
Std Dev 31.83

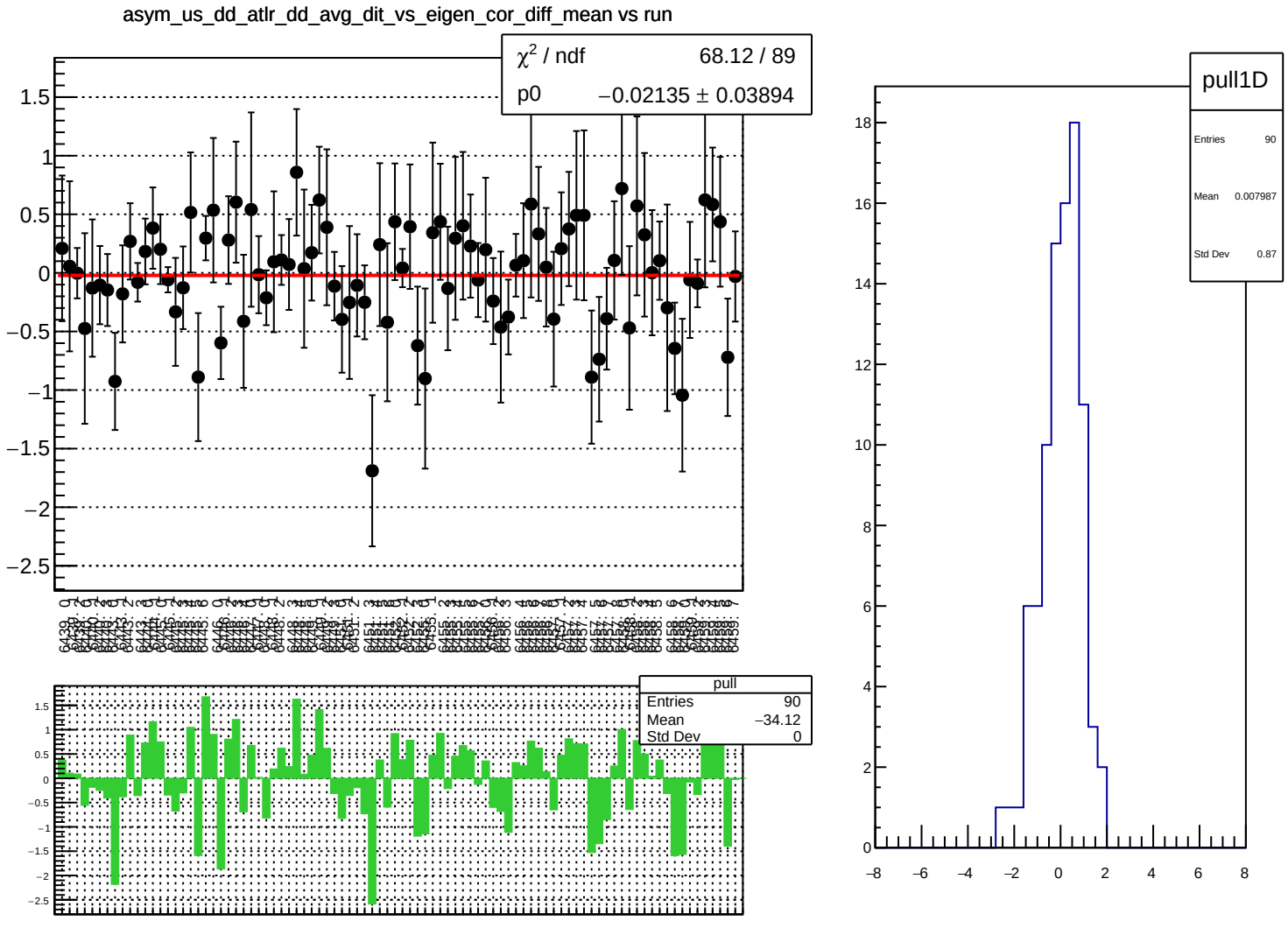

pull1D
Entries 90
Mean −0.05404
Std Dev 0.9239

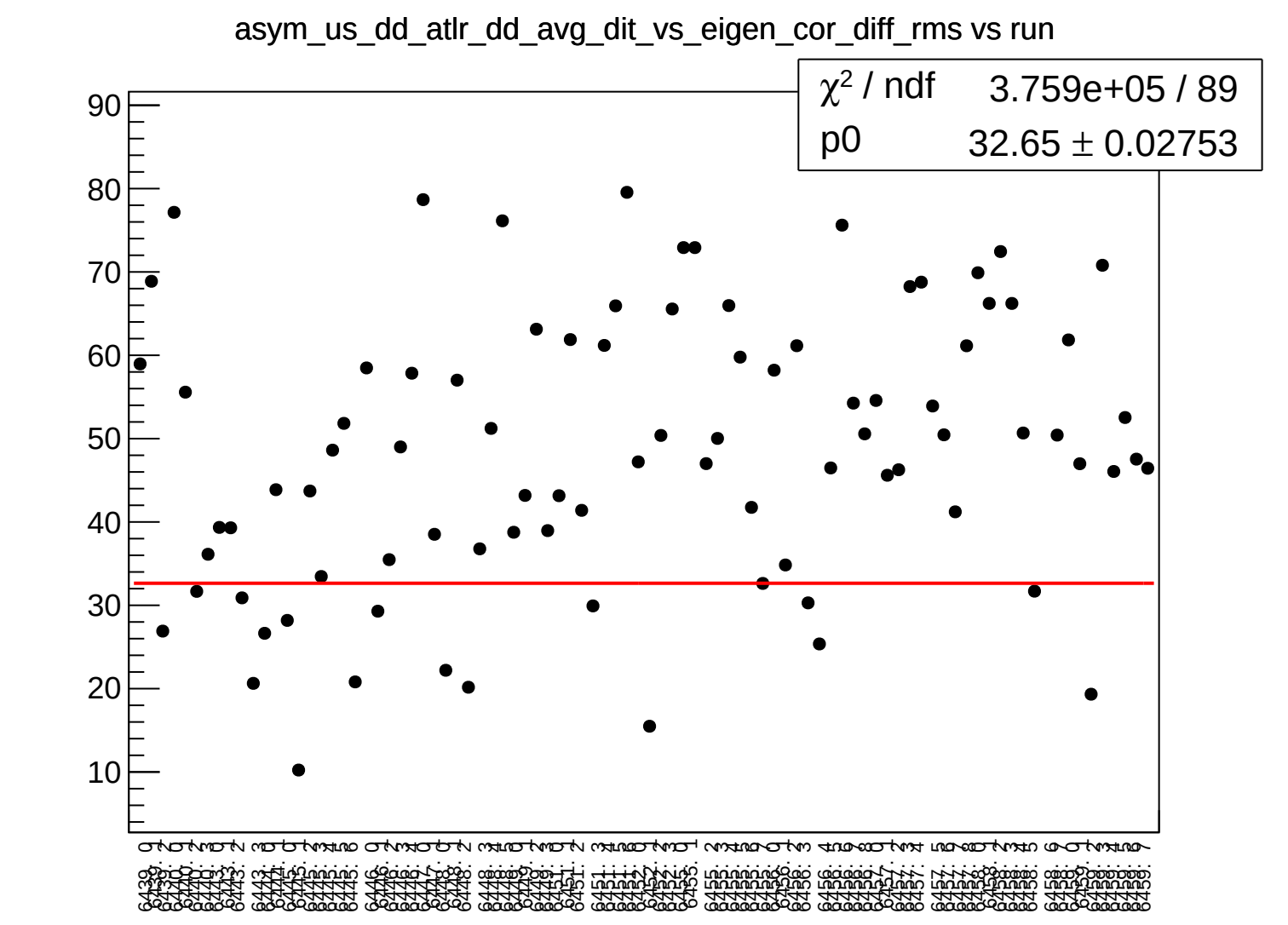

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.386e+06 / 89
p0 6.821e−12 ± 1.084e−14
1
0.8
0.6
0.4
0.2
0

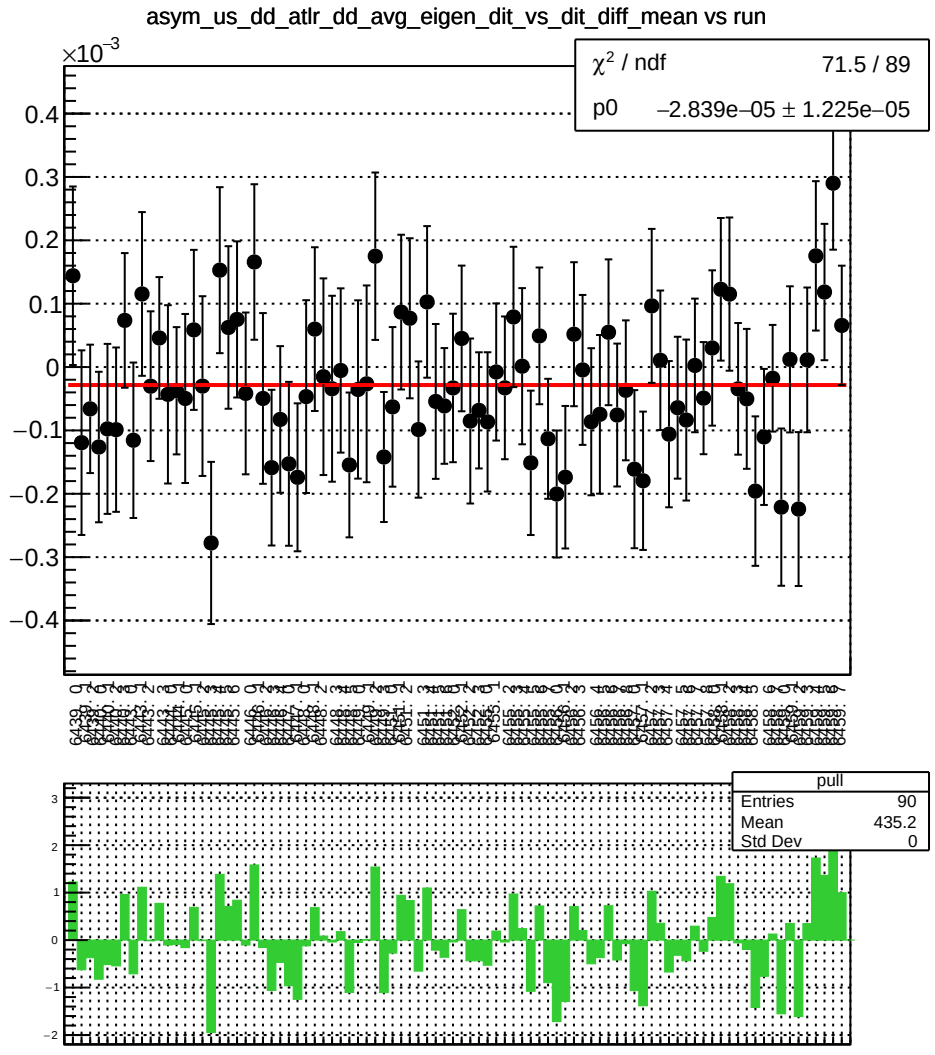

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 68.12 / 89
p0 −0.02135 ± 0.03894
pull
Entries 90
Mean −34.12
Std Dev 0

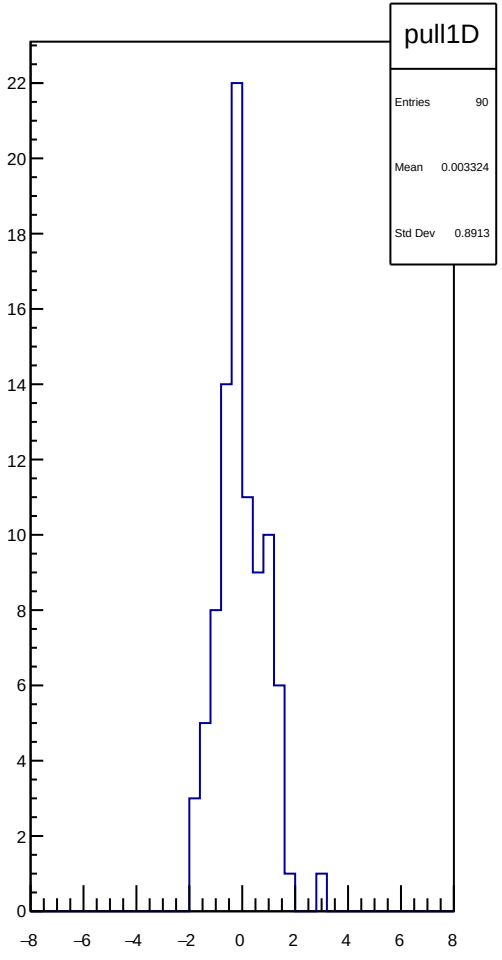

pull1D
Entries 90
Mean 0.007987
Std Dev 0.87

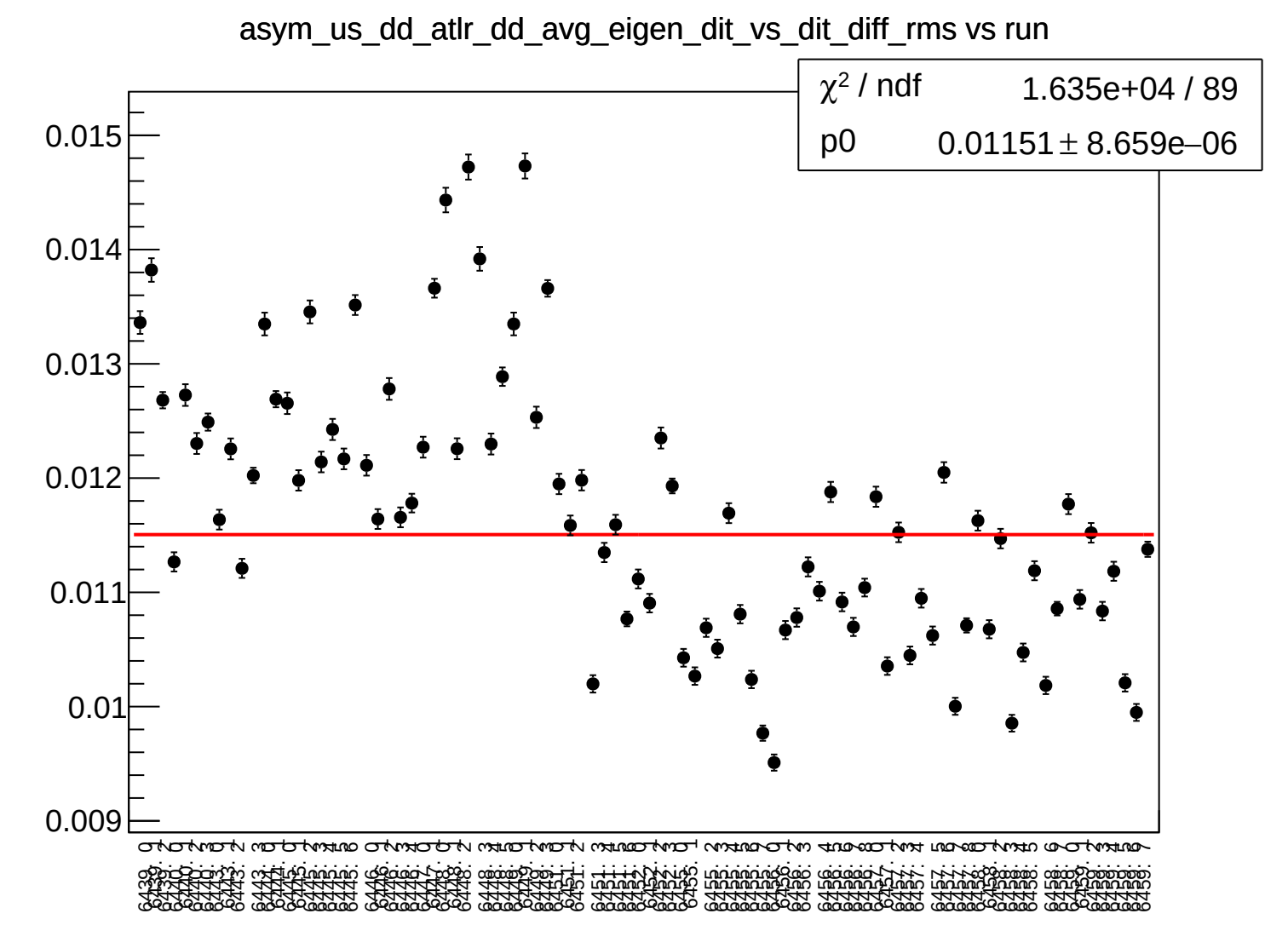

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.759e+05 / 89
p0 32.65 ± 0.02753
90
80
70
60
50
40
30
20
10

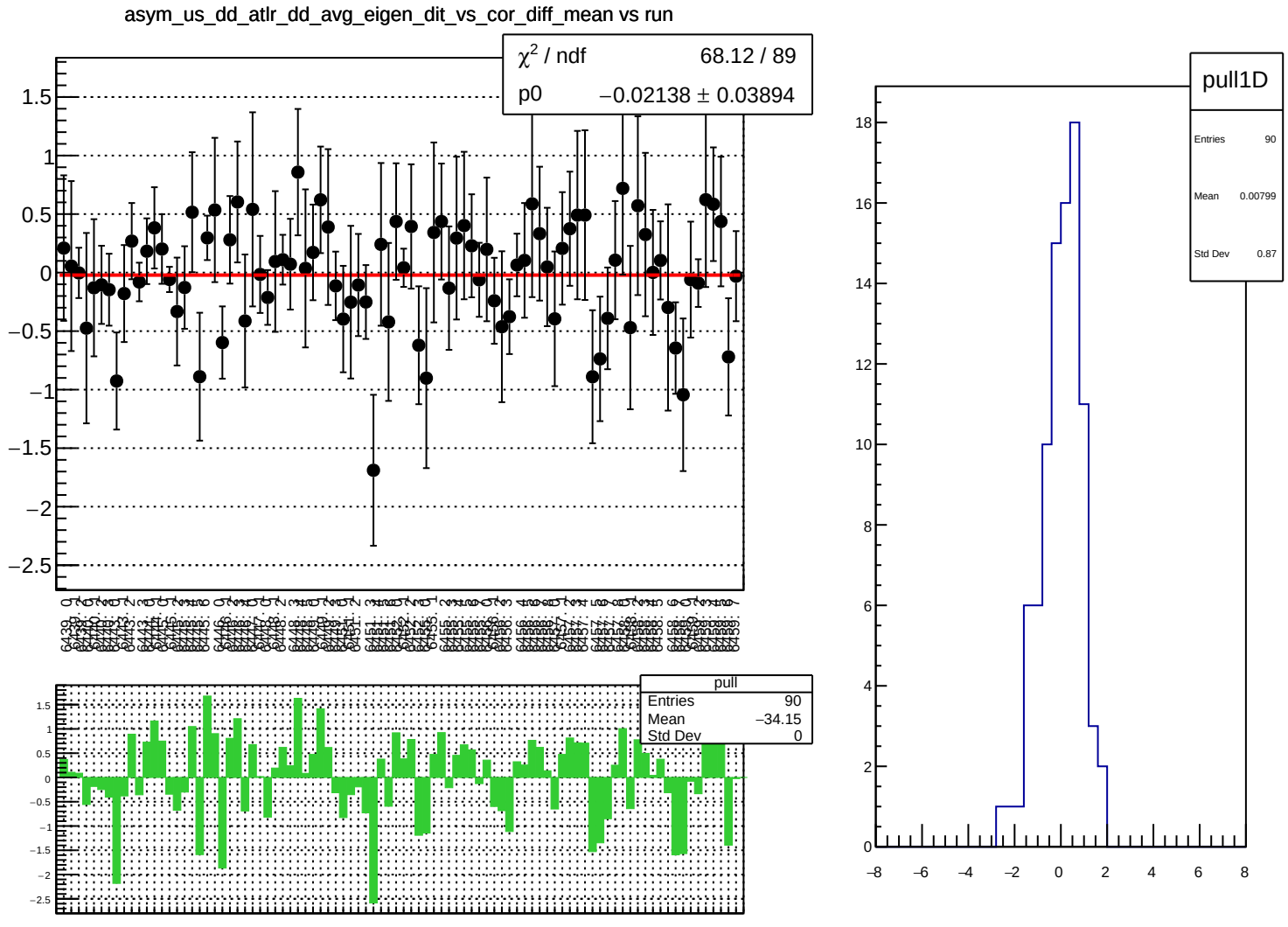

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.12 / 89
p0 −0.02135 ± 0.03894
pull
Entries 90
Mean −34.12
Std Dev 0
pull1D
Entries 90
Mean 0.007987
Std Dev 0.87

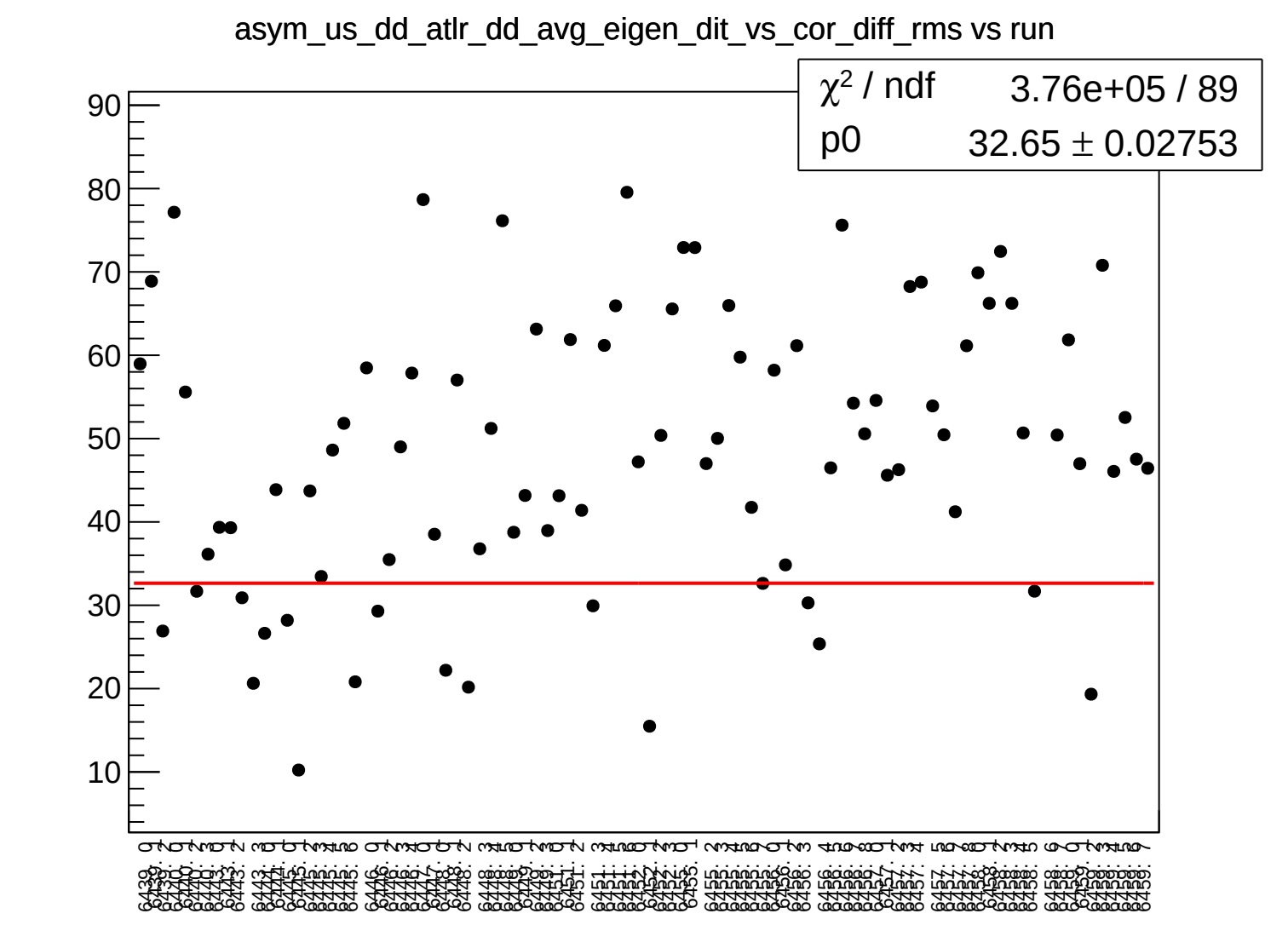

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.759e+05 / 89
p0 32.65 ± 0.02753
90
80
70
60
50
40
30
20
10

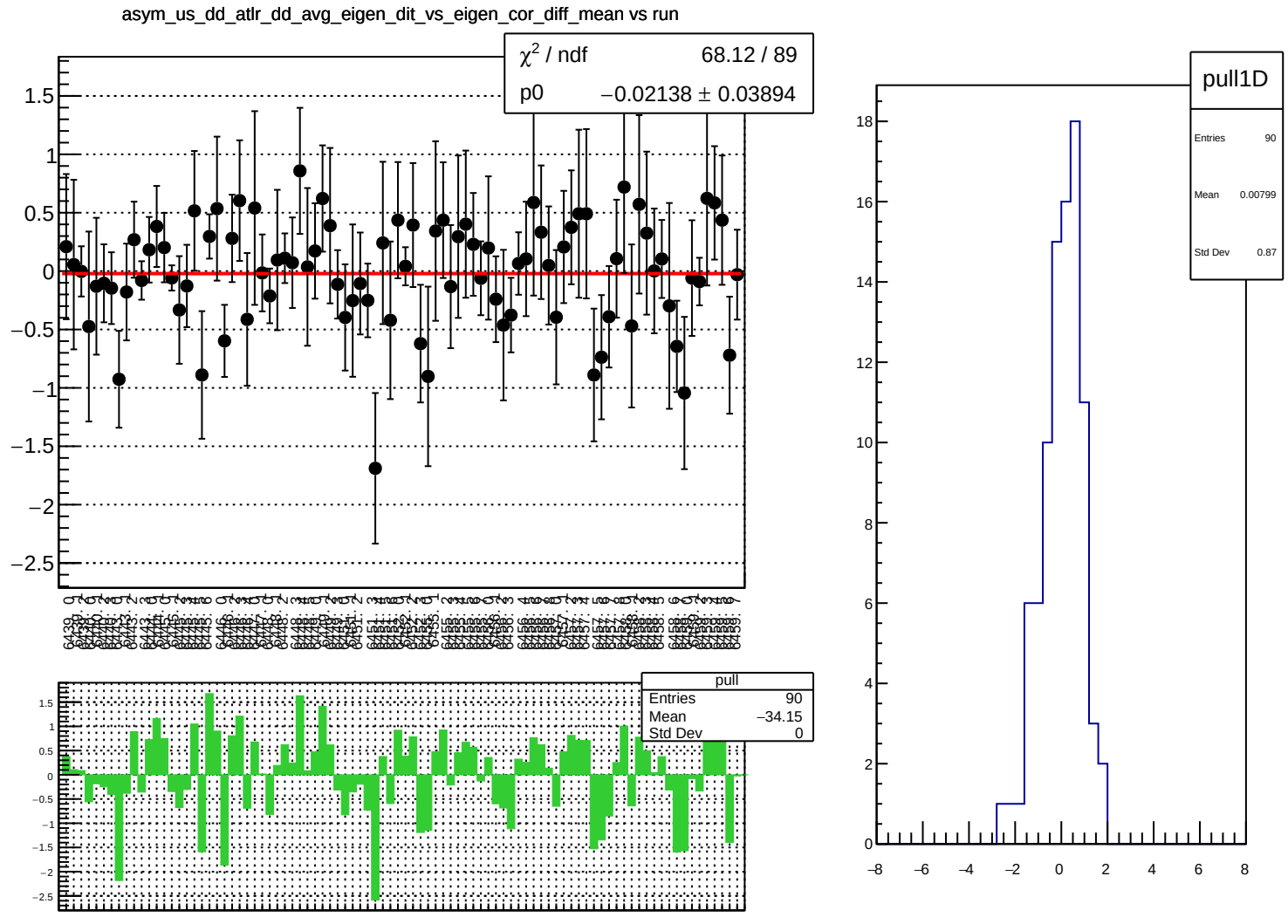

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 71.5 / 89
p0 −2.839e−05 ± 1.225e−05
pull
Entries 90
Mean 435.2
Std Dev 0

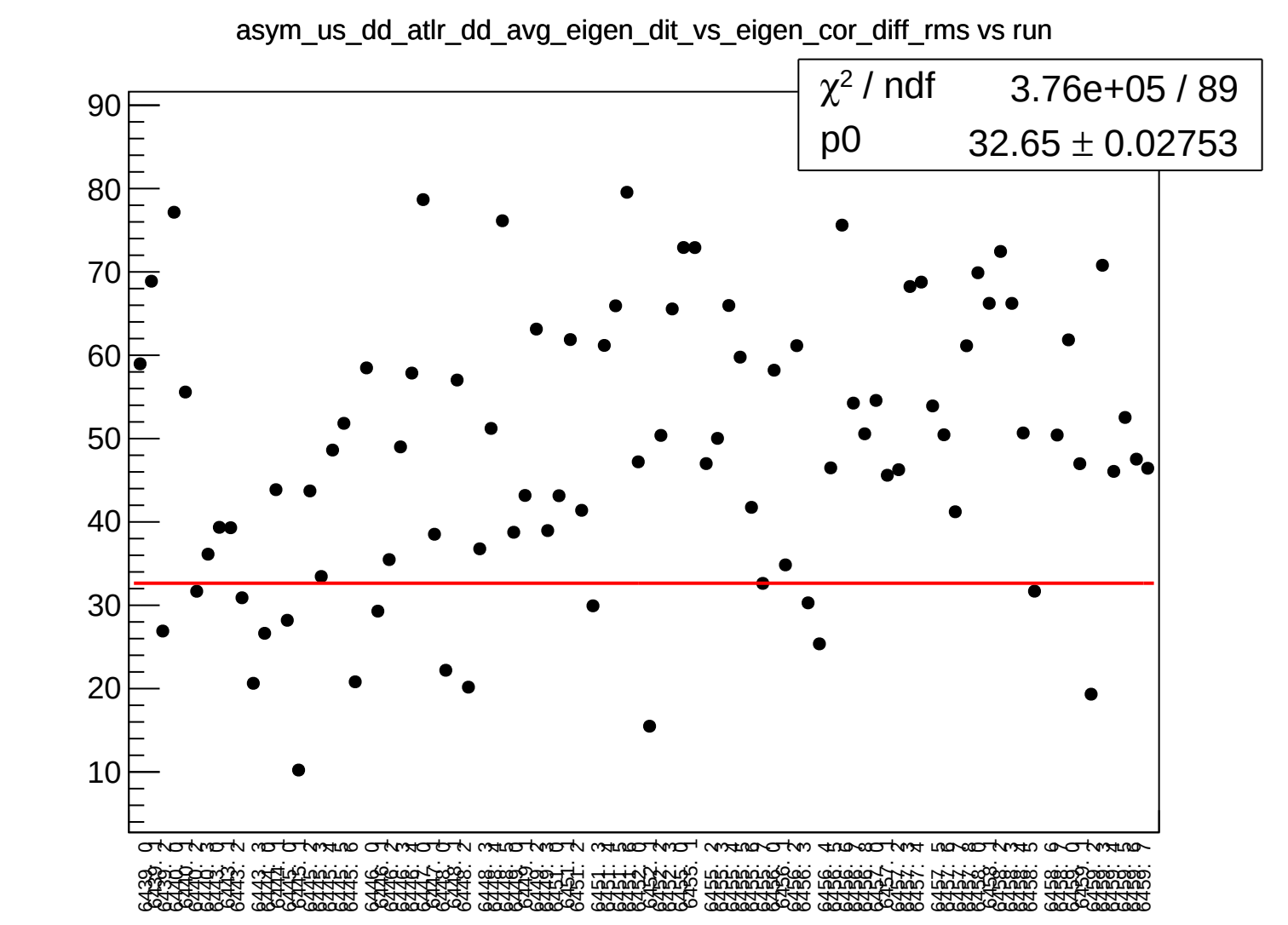

pull1D
Entries 90
Mean 0.003324
Std Dev 0.8913

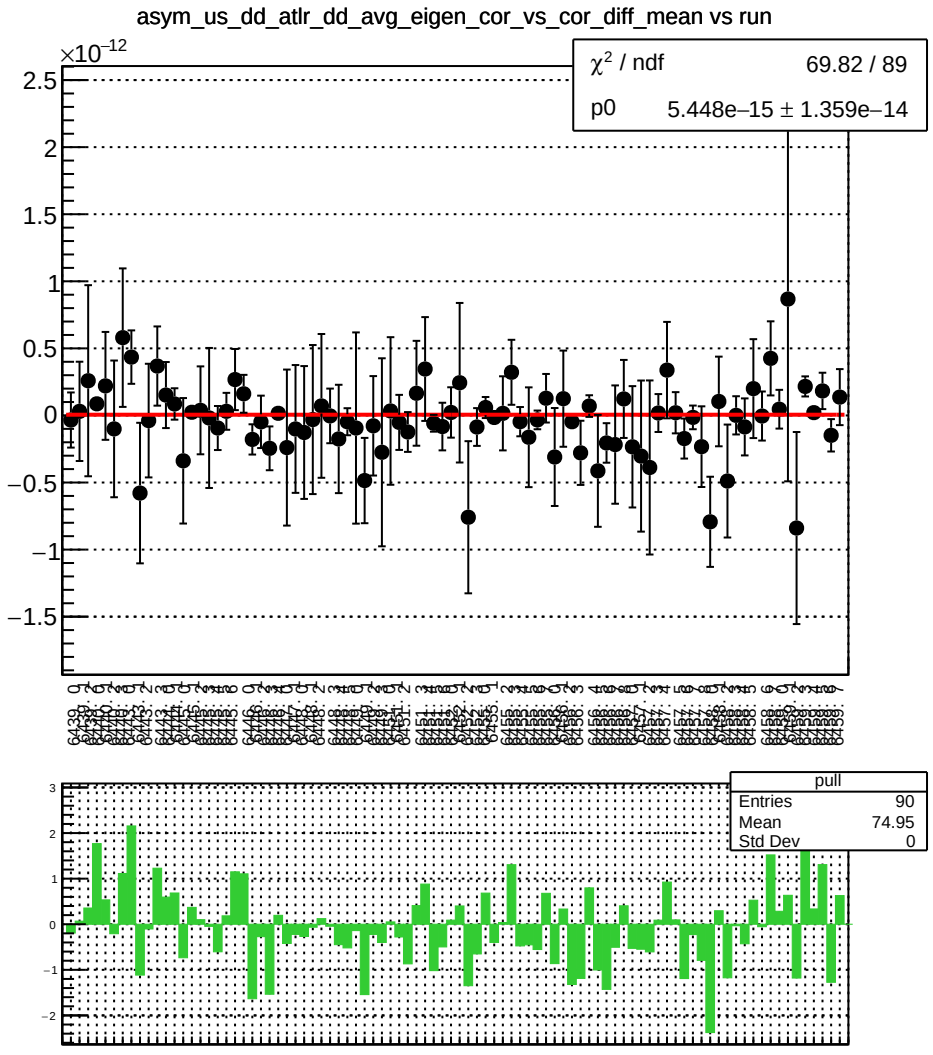

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.635e+04 / 89
p0 0.01151 ± 8.659e–06
0.015
0.014
0.013
0.012
0.011
0.01
0.009

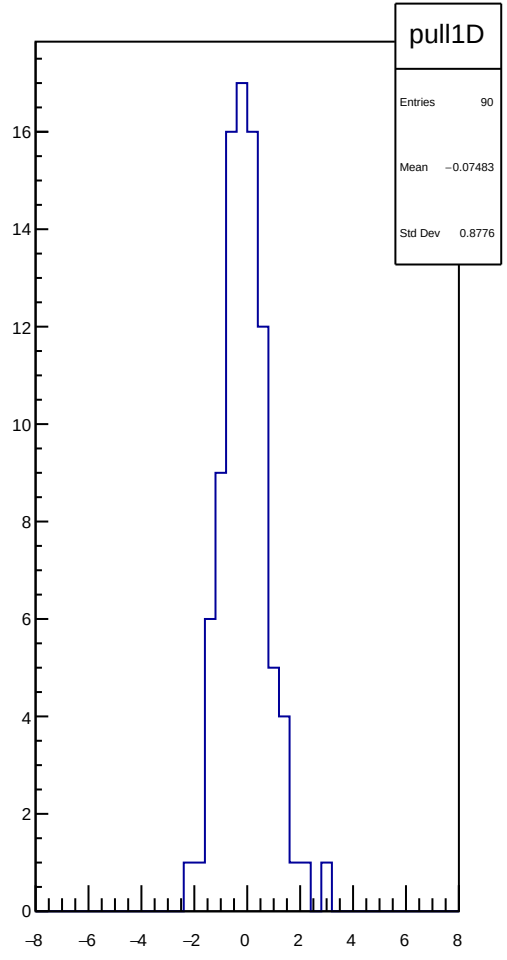

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 68.12 / 89
p0 −0.02138 ± 0.03894
pull
Entries 90
Mean −34.15
Std Dev 0
pull1D
Entries 90
Mean 0.00799
Std Dev 0.87

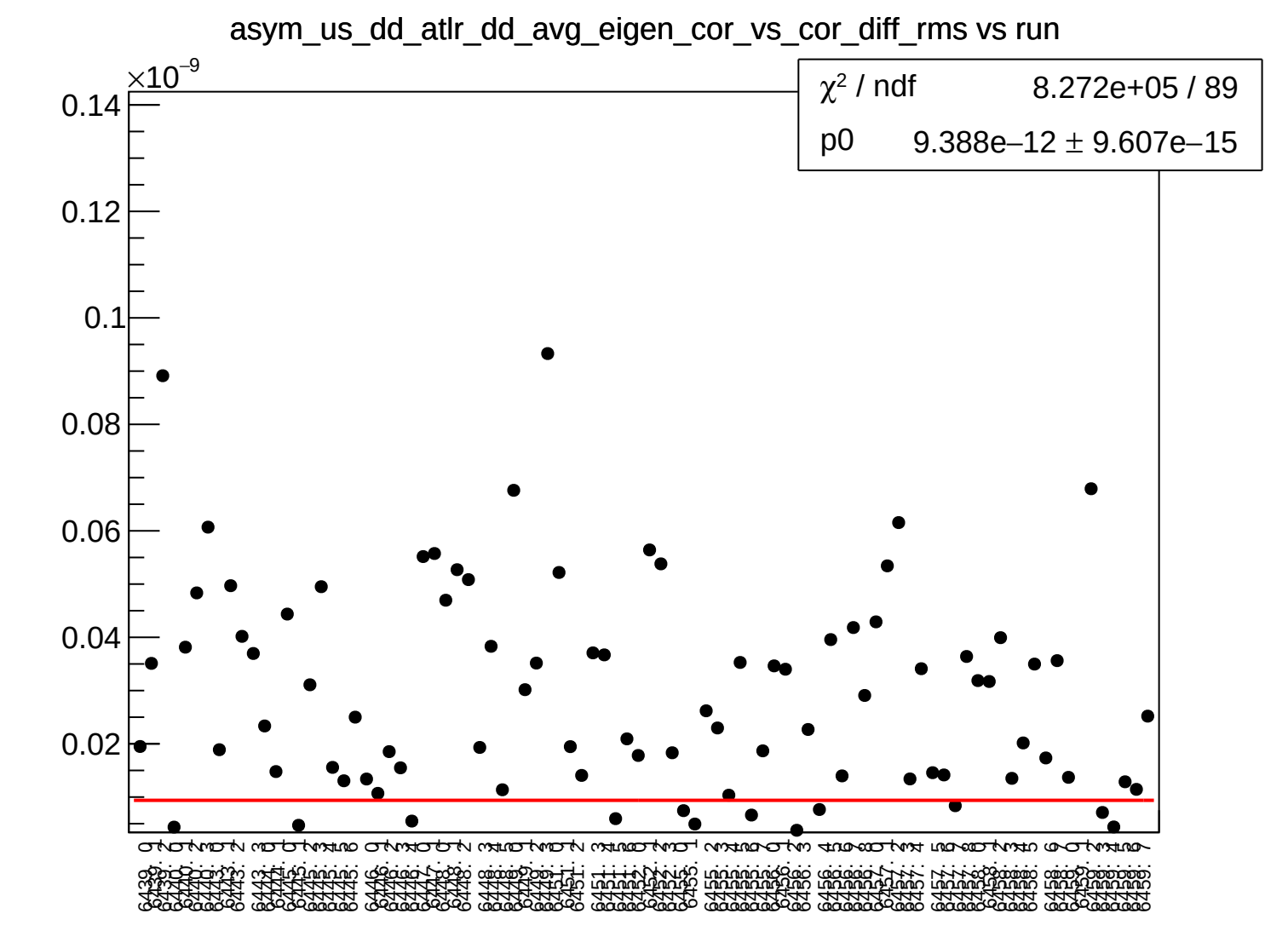

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.76e+05 / 89
p0 32.65 ± 0.02753
90
80
70
60
50
40
30
20
10

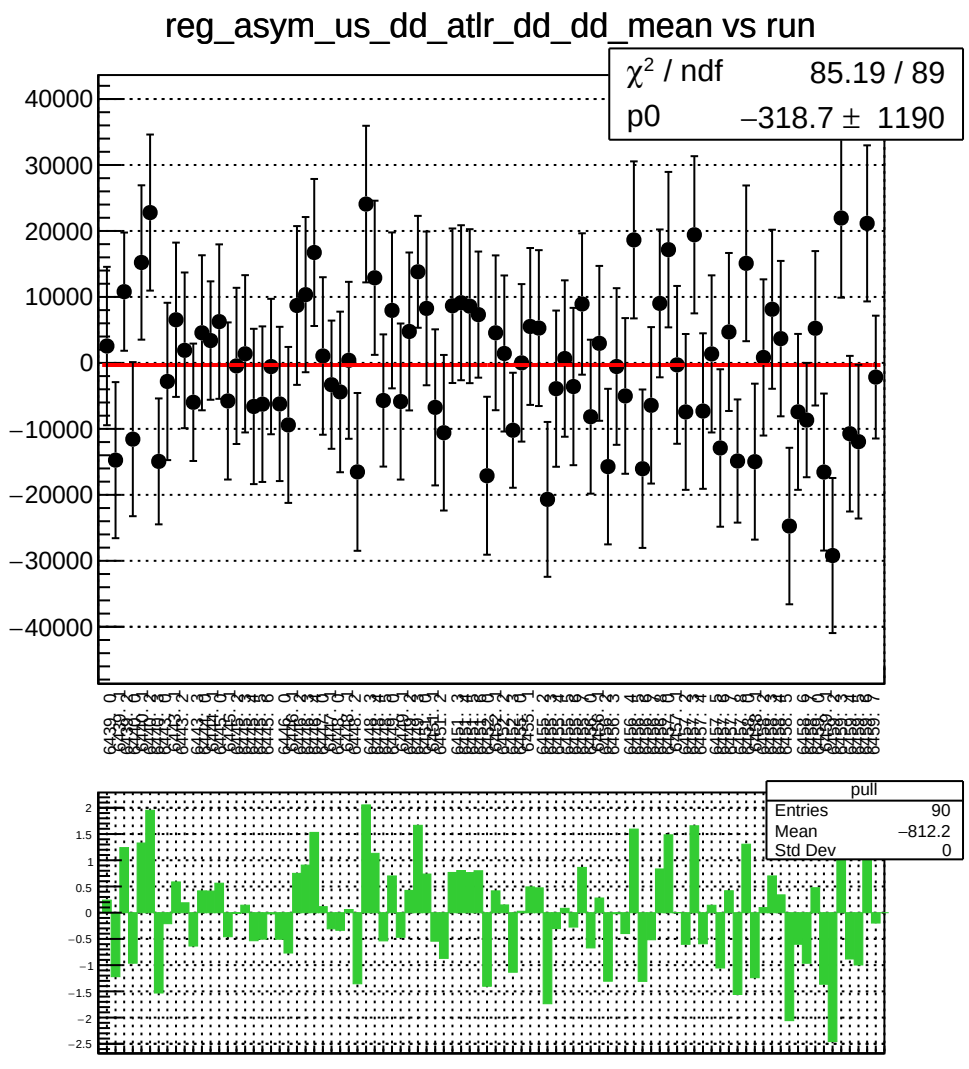

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.12 / 89
p0 −0.02138 ± 0.03894
pull
Entries 90
Mean −34.15
Std Dev 0
pull1D
Entries 90
Mean 0.00799
Std Dev 0.87

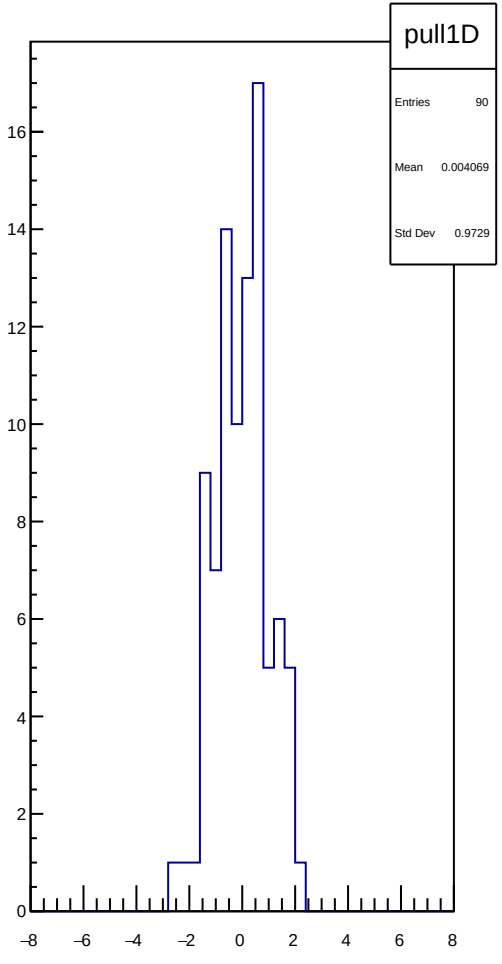

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.76e+05 / 89
p0 32.65 ± 0.02753
90
80
70
60
50
40
30
20
10

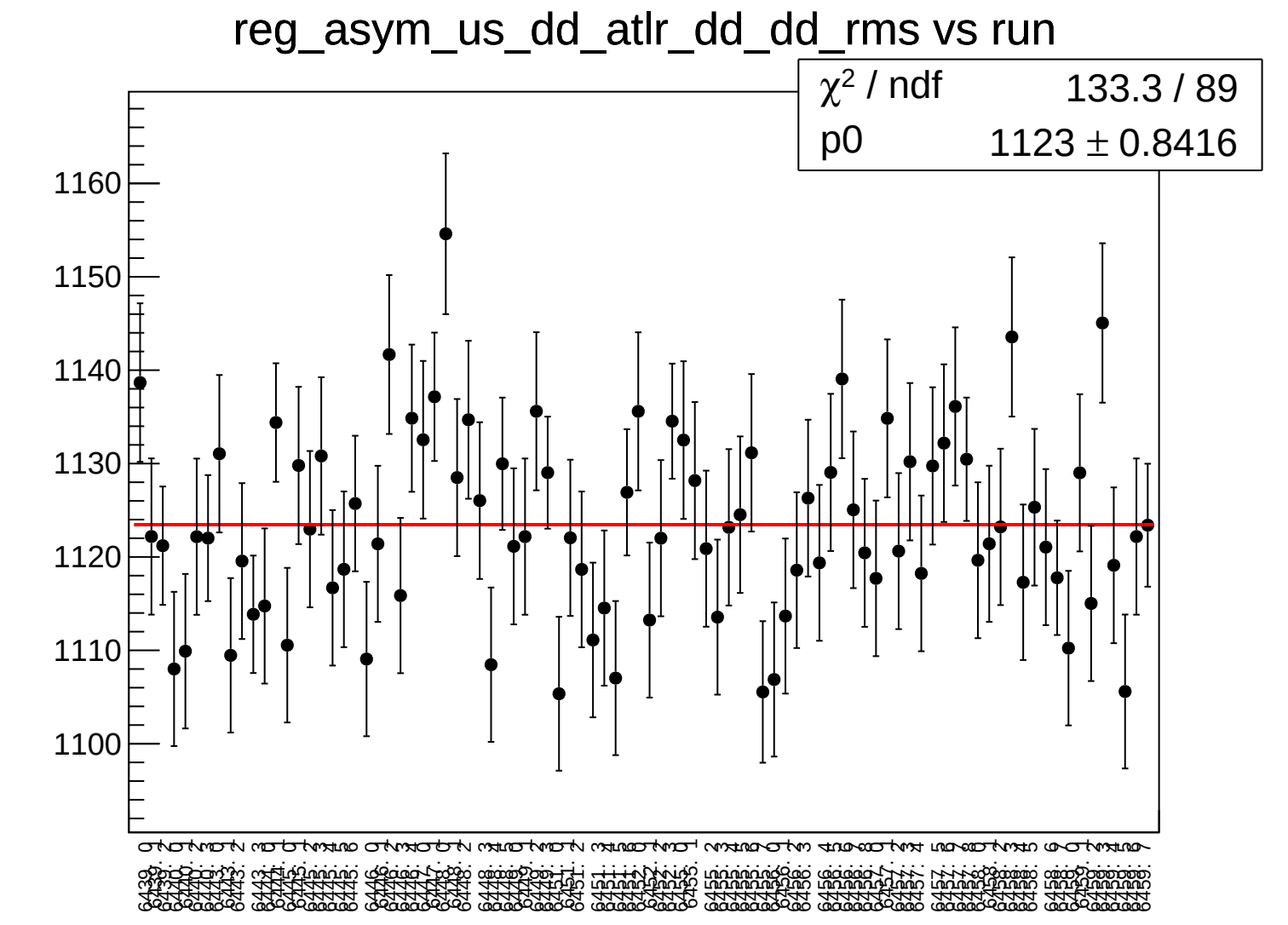

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 69.82 / 89
p0 5.448e−15 ± 1.359e−14
pull
Entries 90
Mean 74.95
Std Dev 0

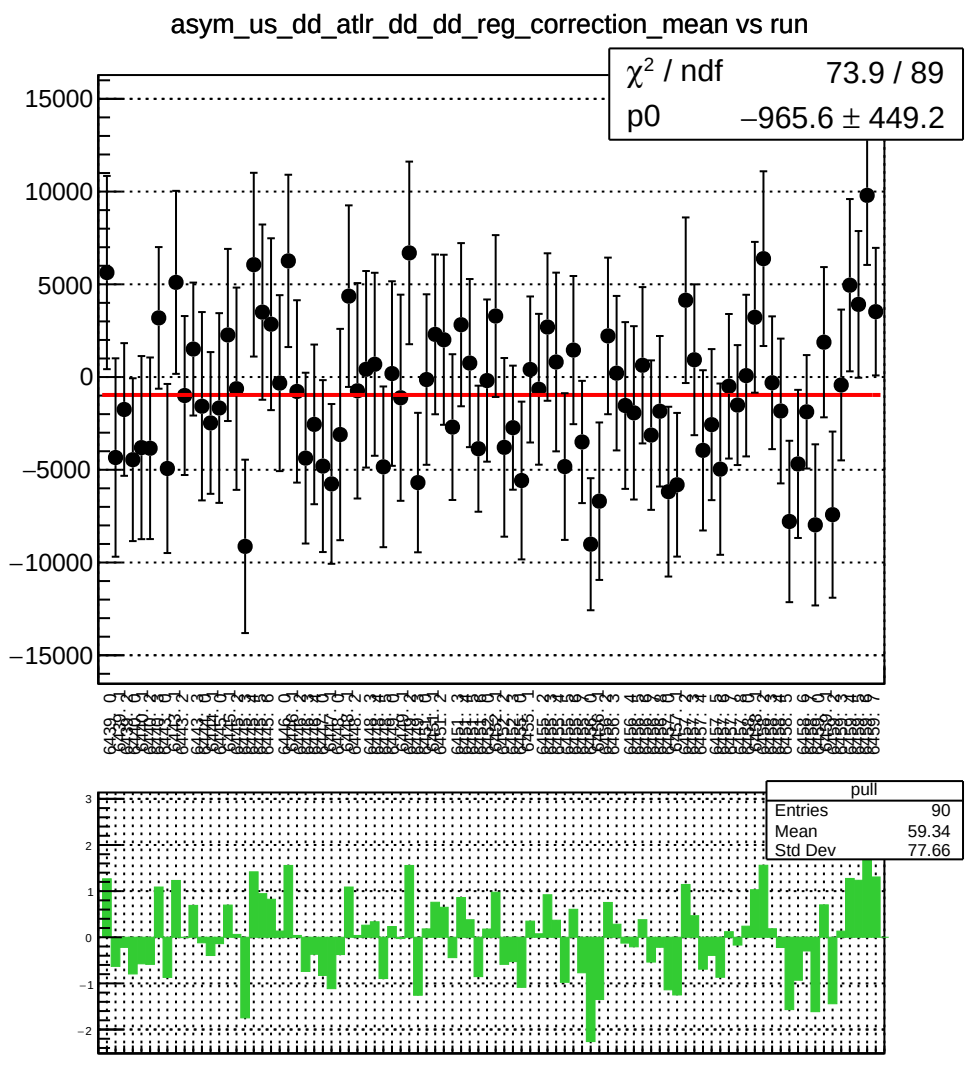

pull1D
Entries 90
Mean −0.07483
Std Dev 0.8776

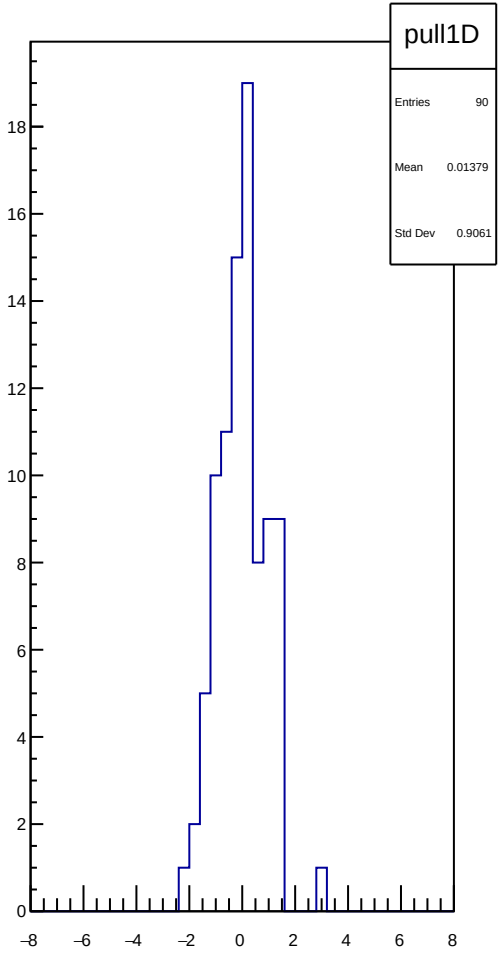

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.14
0.12
0.1
0.08
0.06
0.04
0.02
χ² / ndf 8.272e+05 / 89
p0 9.388e−12 ± 9.607e−15

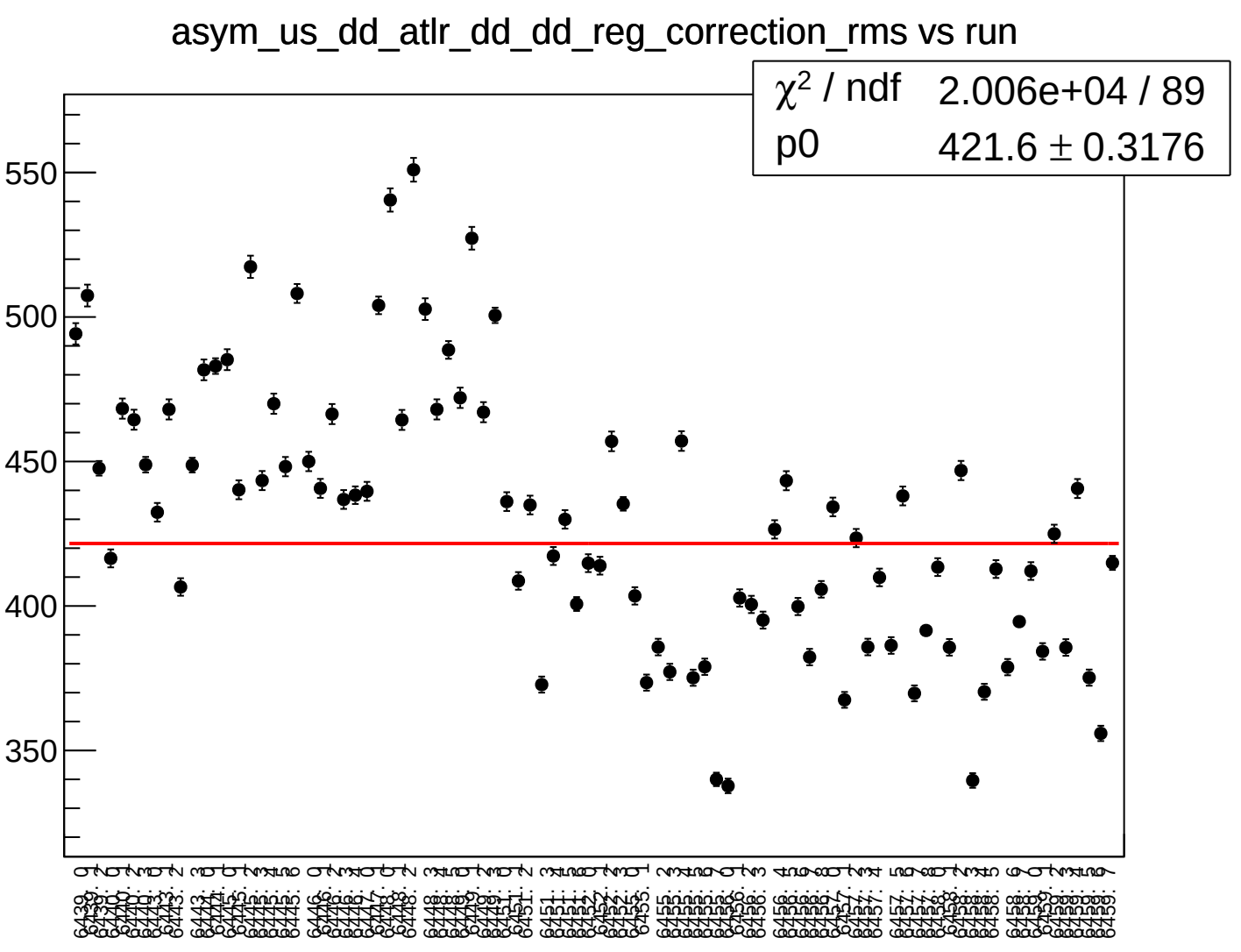

reg_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 85.19 / 89
p0 −318.7 ± 1190
pull
Entries 90
Mean −812.2
Std Dev 0

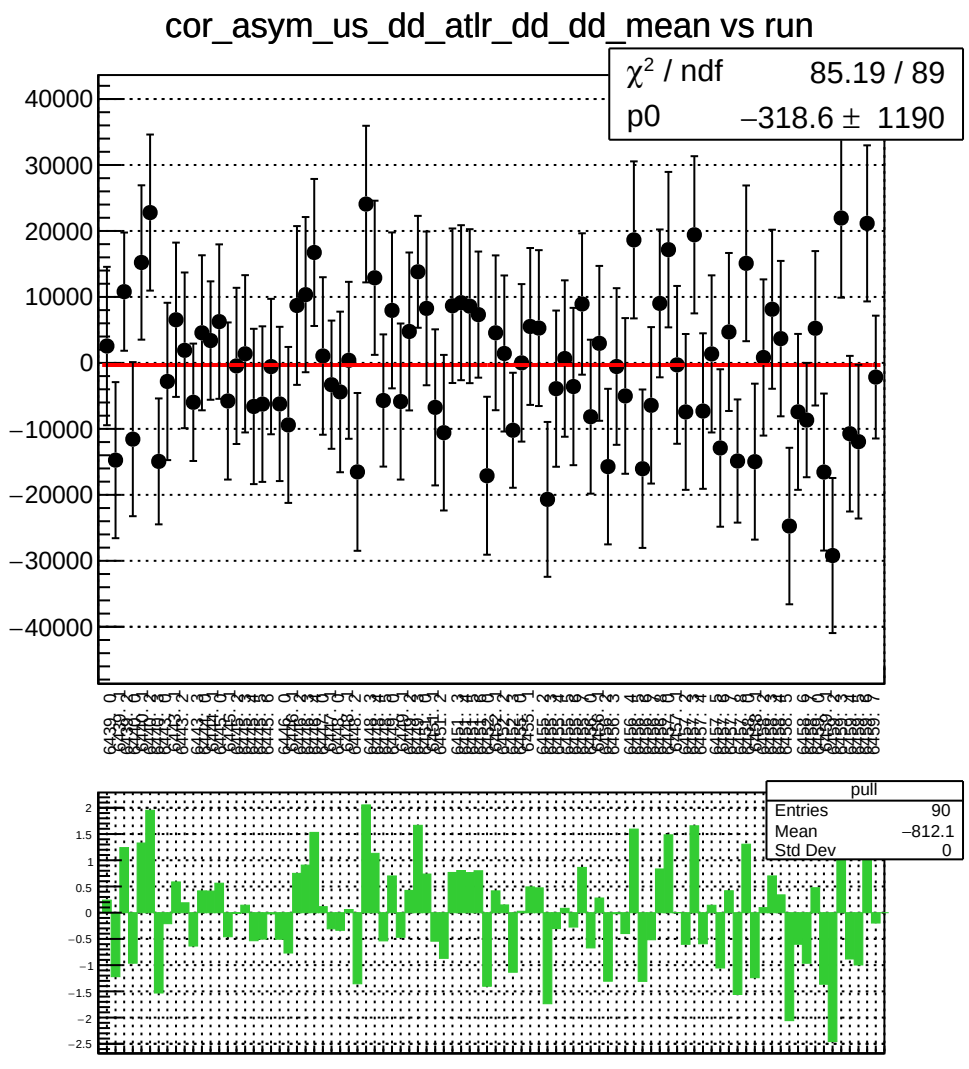

pull1D
Entries 90
Mean 0.004069
Std Dev 0.9729

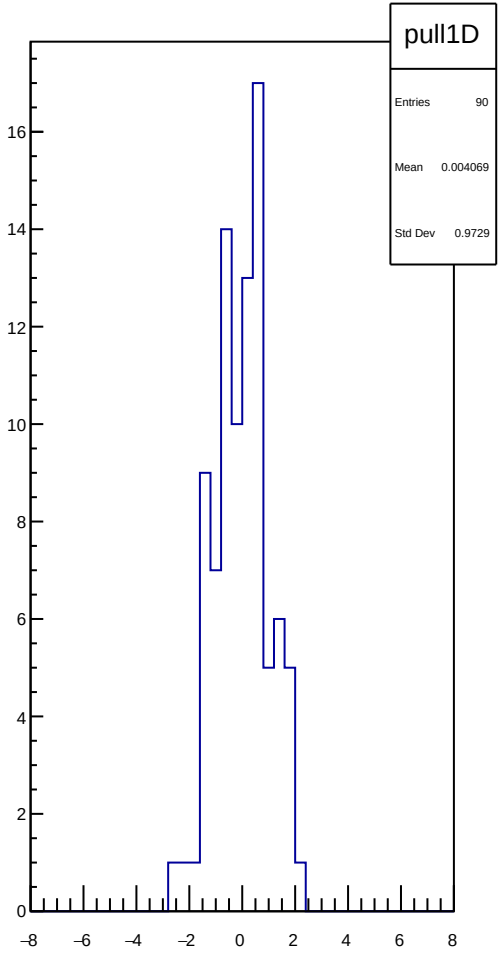

reg_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 133.3 / 89
p0 1123 ± 0.8416
1160
1150
1140
1130
1120
1110
1100

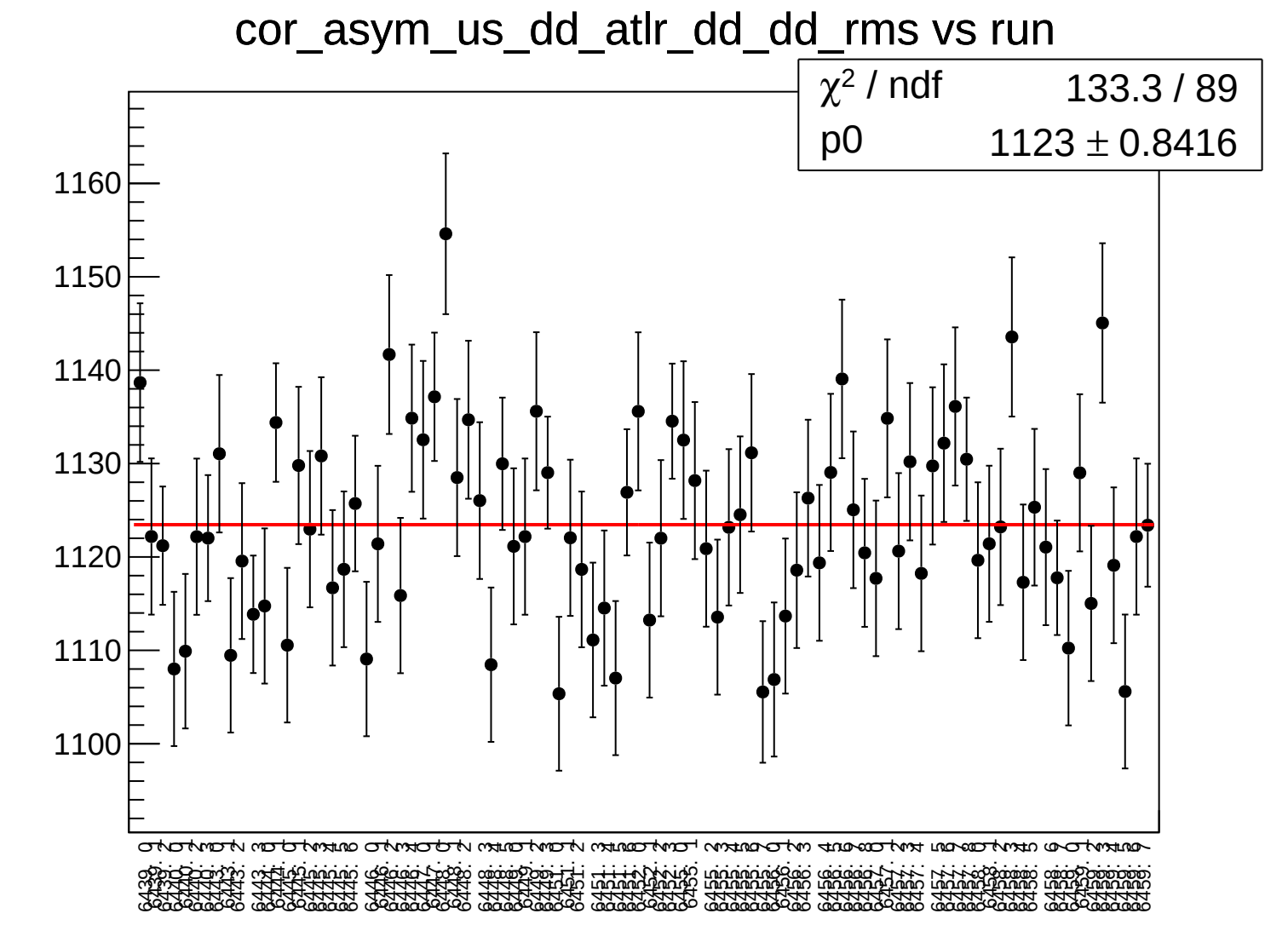

asym_us_dd_atlr_dd_dd_reg_correction_mean vs run
χ² / ndf 73.9 / 89
p0 −965.6 ± 449.2
pull
Entries 90
Mean 59.34
Std Dev 77.66

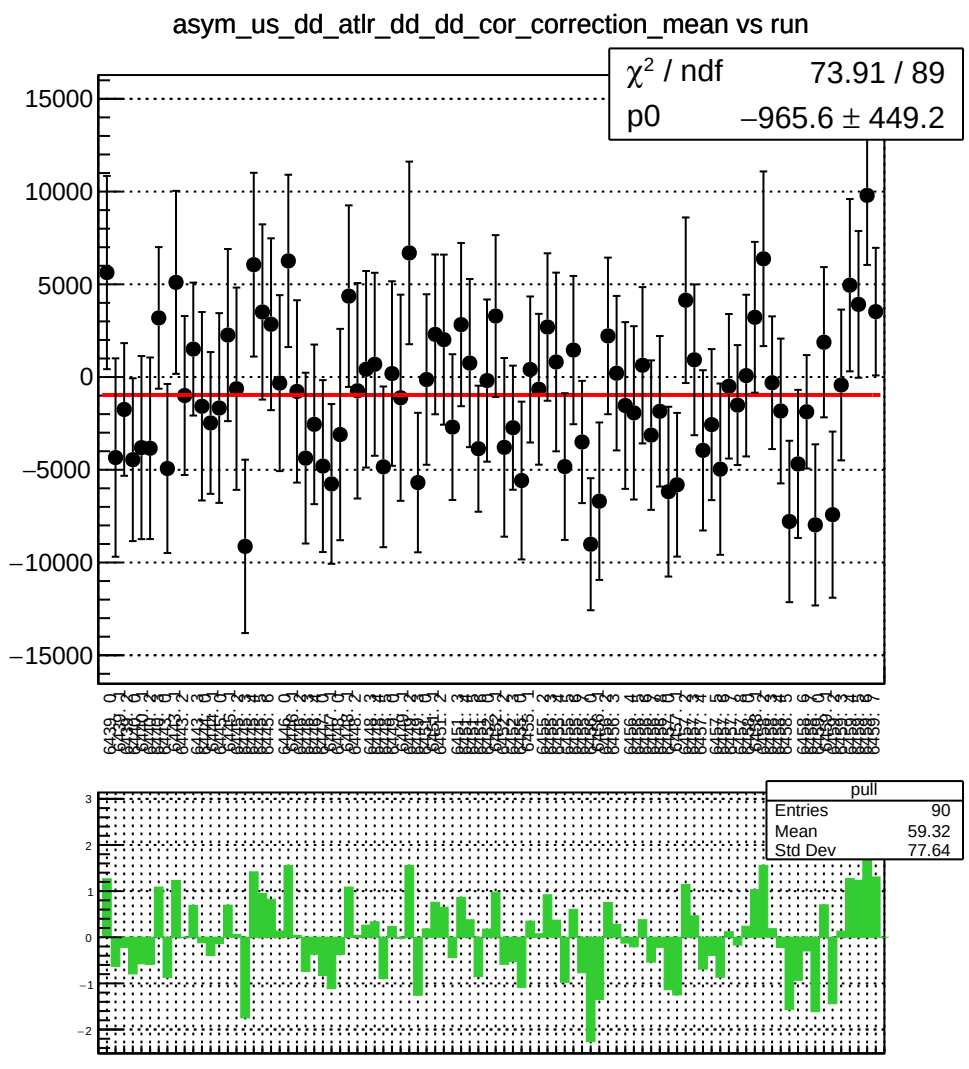

pull1D
Entries 90
Mean 0.01379
Std Dev 0.9061

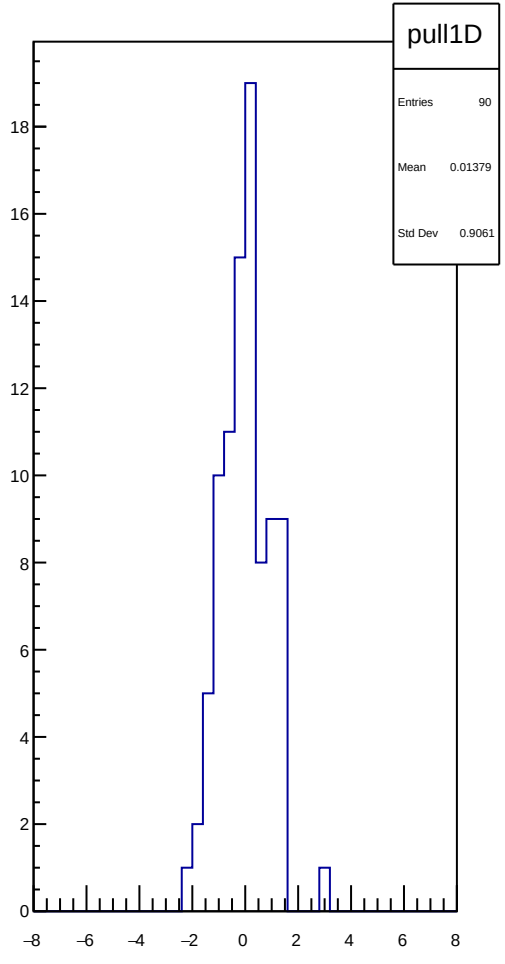

asym_us_dd_atlr_dd_dd_reg_correction_rms vs run
χ² / ndf 2.006e+04 / 89
p0 421.6 ± 0.3176
550
500
450
400
350

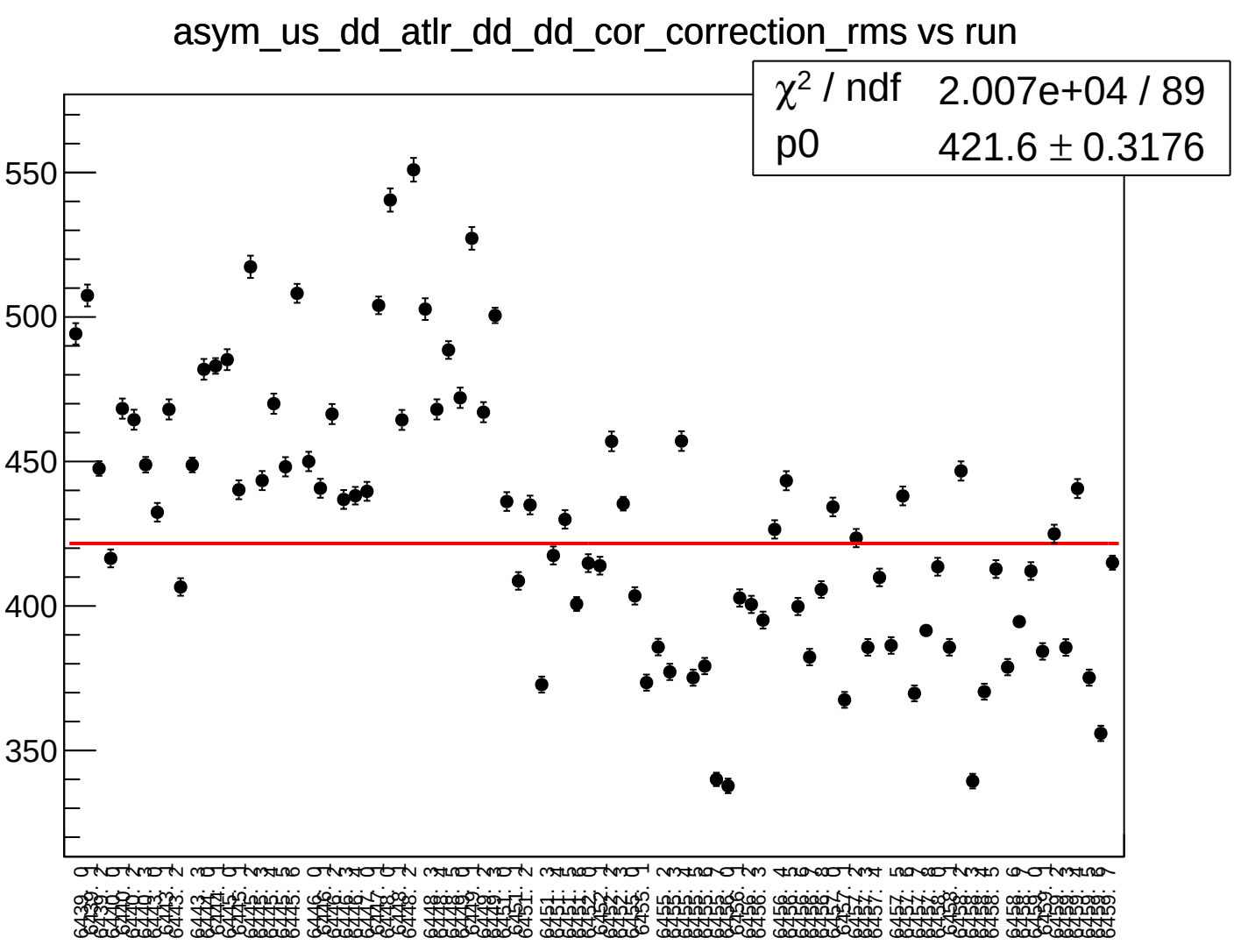

cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 85.19 / 89
p0 −318.6 ± 1190
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 90
Mean −812.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

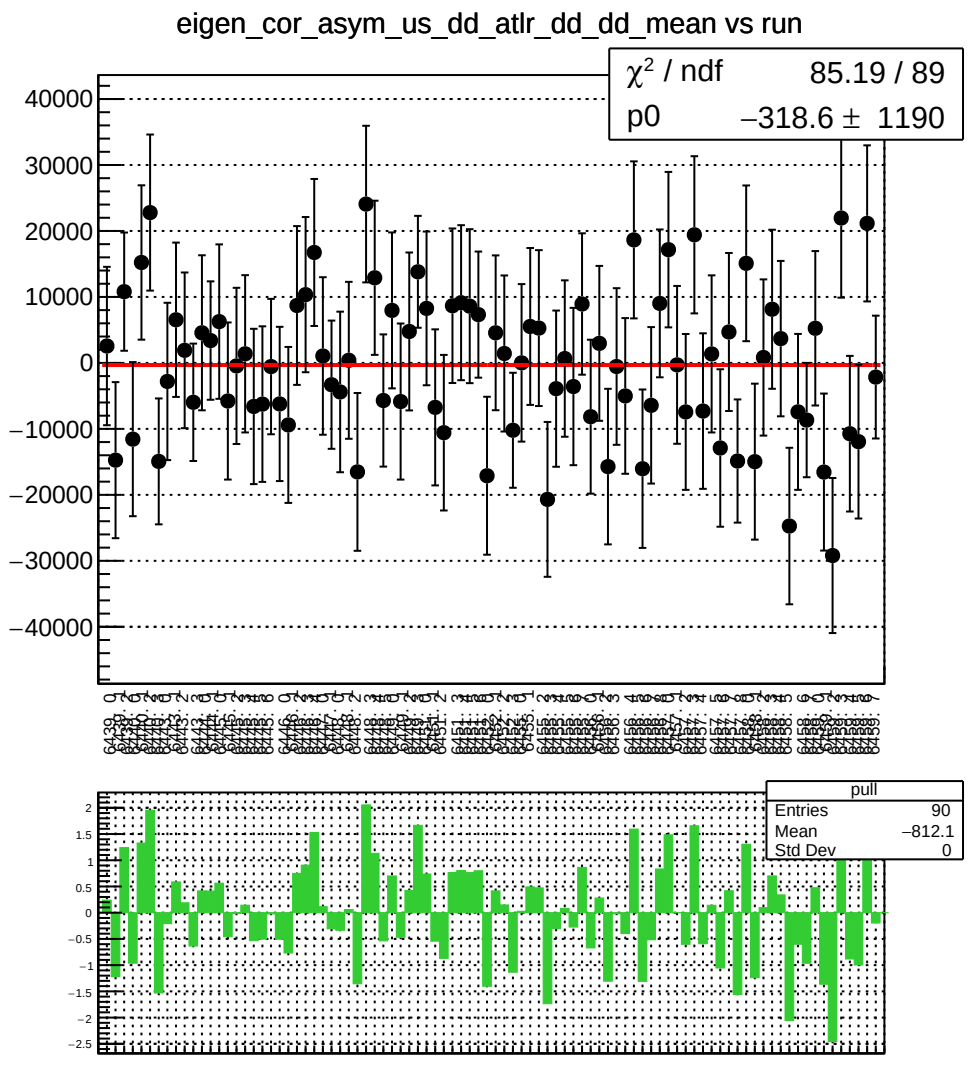

pull1D
Entries 90
Mean 0.004069
Std Dev 0.9729
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

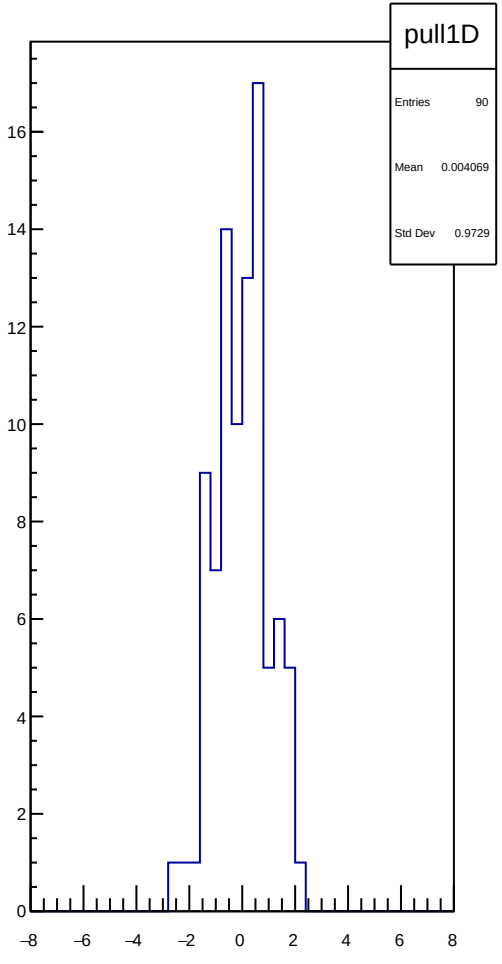

cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 133.3 / 89
p0 1123 ± 0.8416
1160
1150
1140
1130
1120
1110
1100

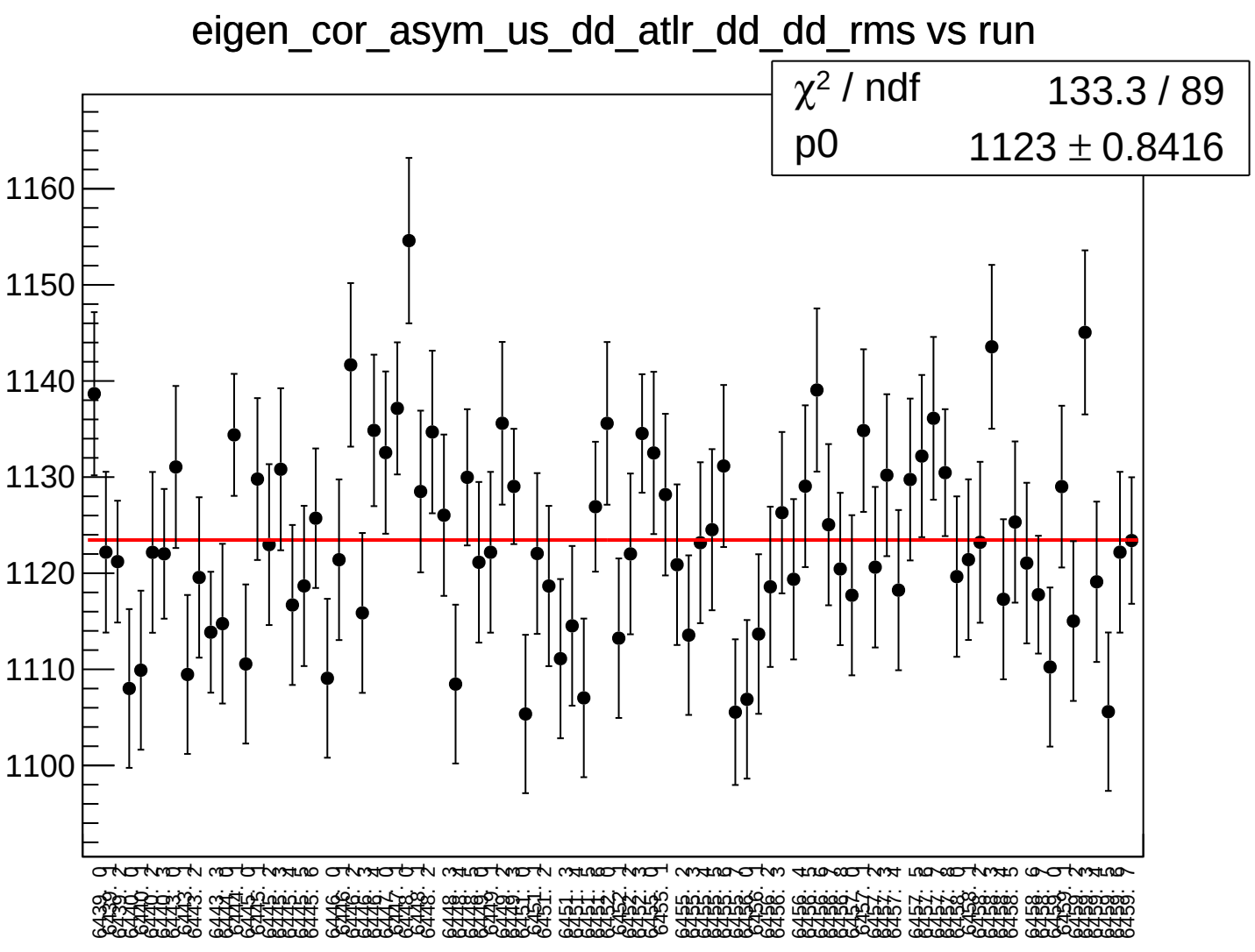

asym_us_dd_atlr_dd_dd_cor_correction_mean vs run
χ² / ndf 73.91 / 89
p0 −965.6 ± 449.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 90
Mean 59.32
Std Dev 77.64
3
2
1
0
−1
−2

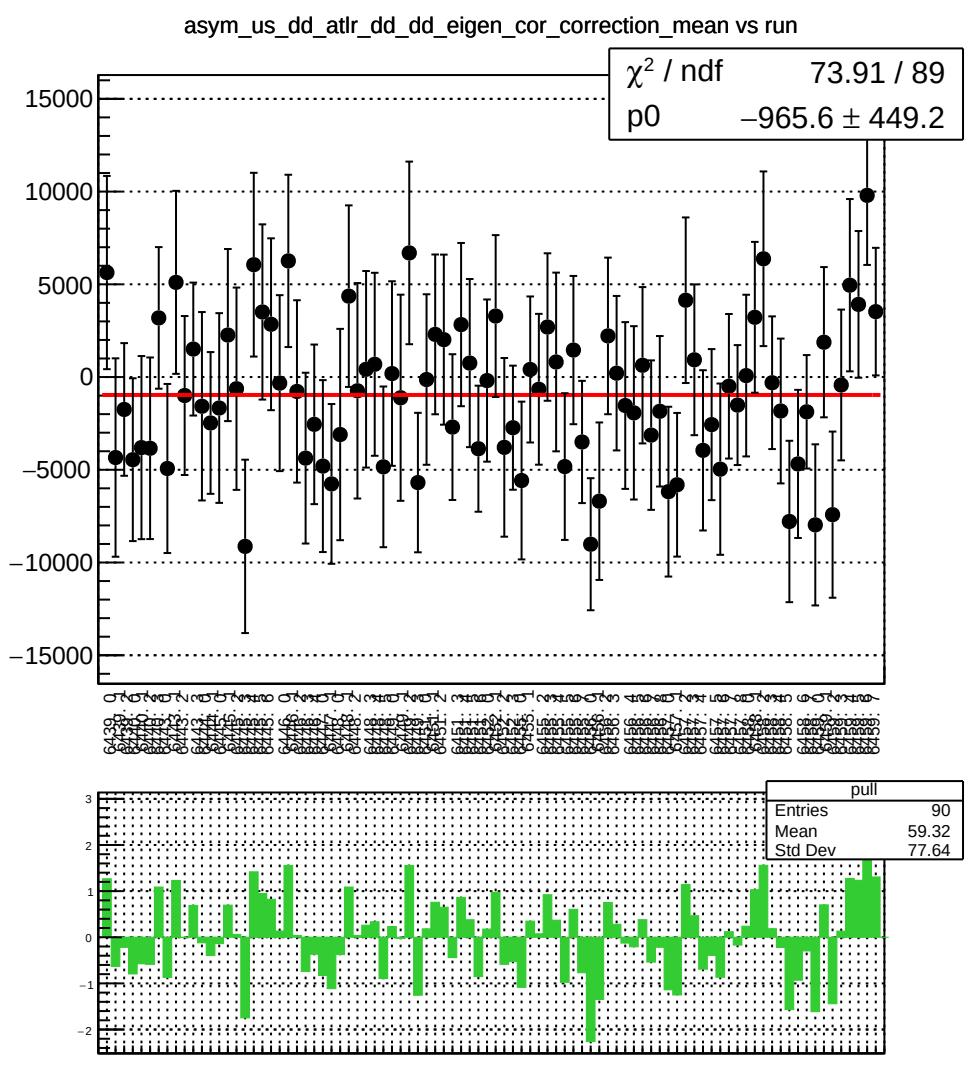

pull1D
Entries 90
Mean 0.01379
Std Dev 0.9061
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

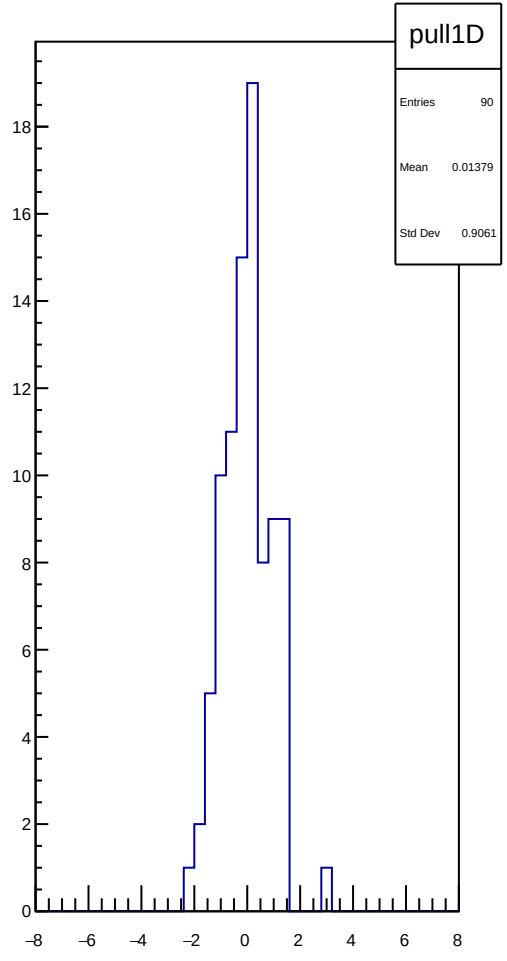

asym_us_dd_atlr_dd_dd_cor_correction_rms vs run
χ² / ndf 2.007e+04 / 89
p0 421.6 ± 0.3176
550
500
450
400
350

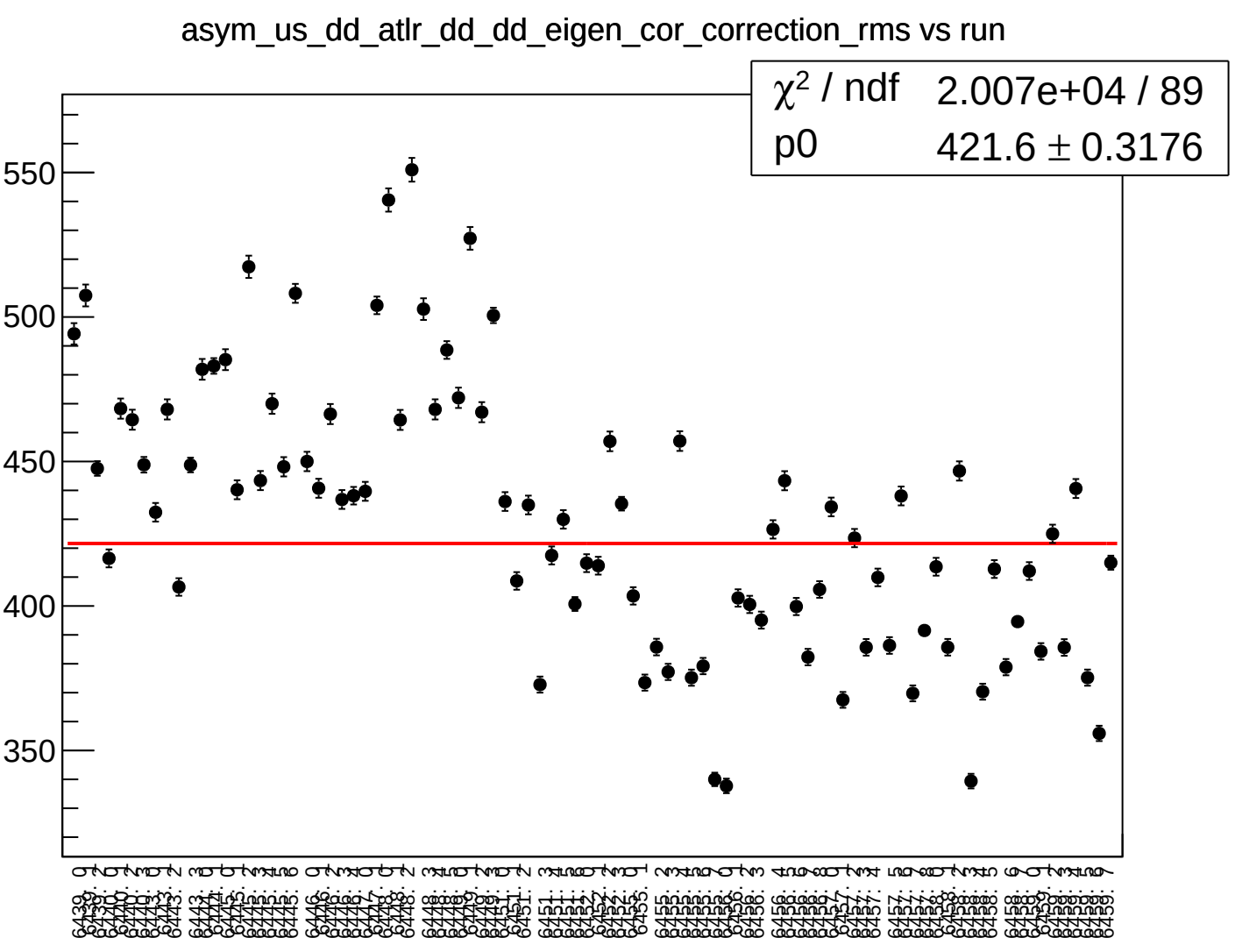

eigen_cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 85.19 / 89
p0 −318.6 ± 1190
pull
Entries 90
Mean −812.1
Std Dev 0

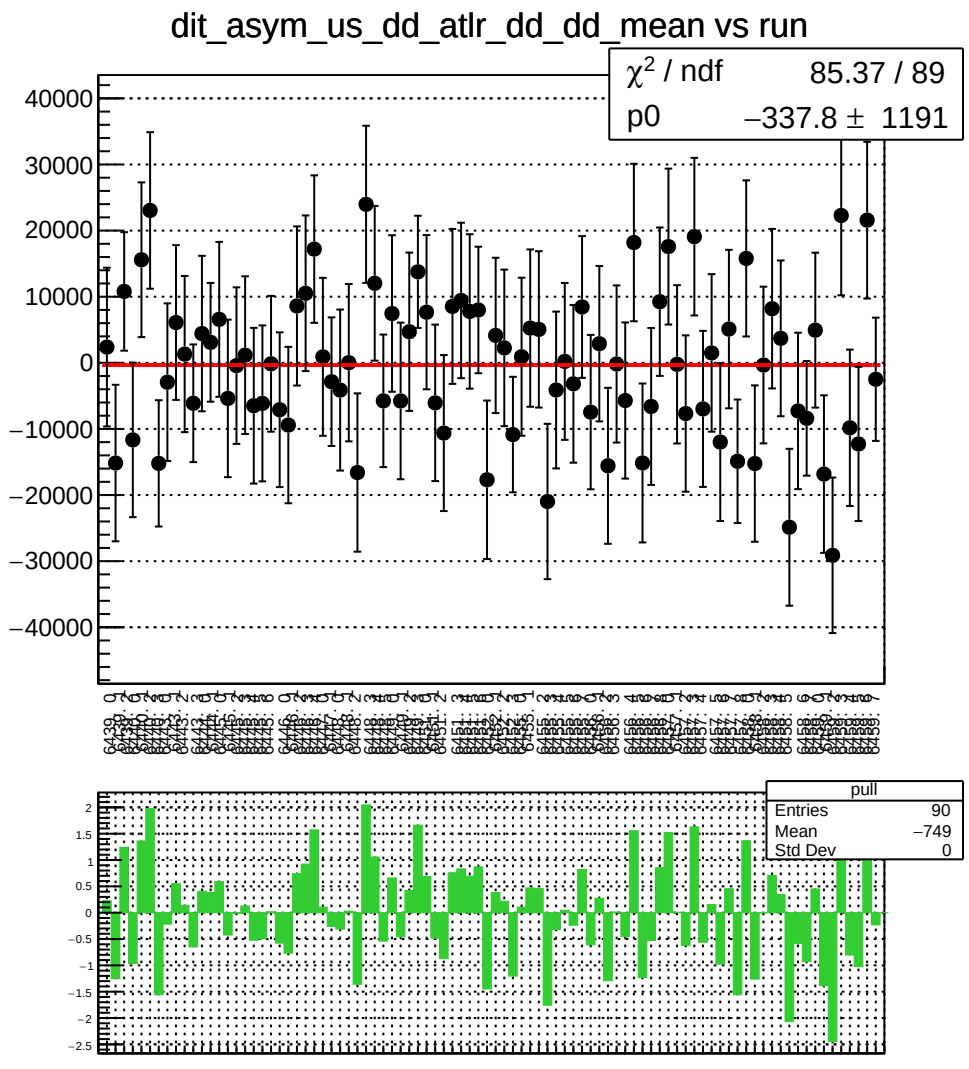

pull1D
Entries 90
Mean 0.004069
Std Dev 0.9729

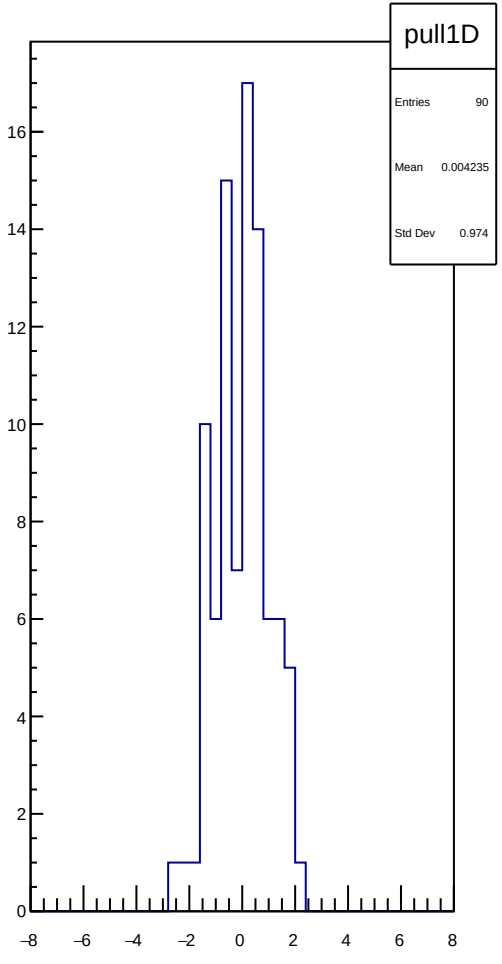

eigen_cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 133.3 / 89
p0 1123 ± 0.8416
1160
1150
1140
1130
1120
1110
1100

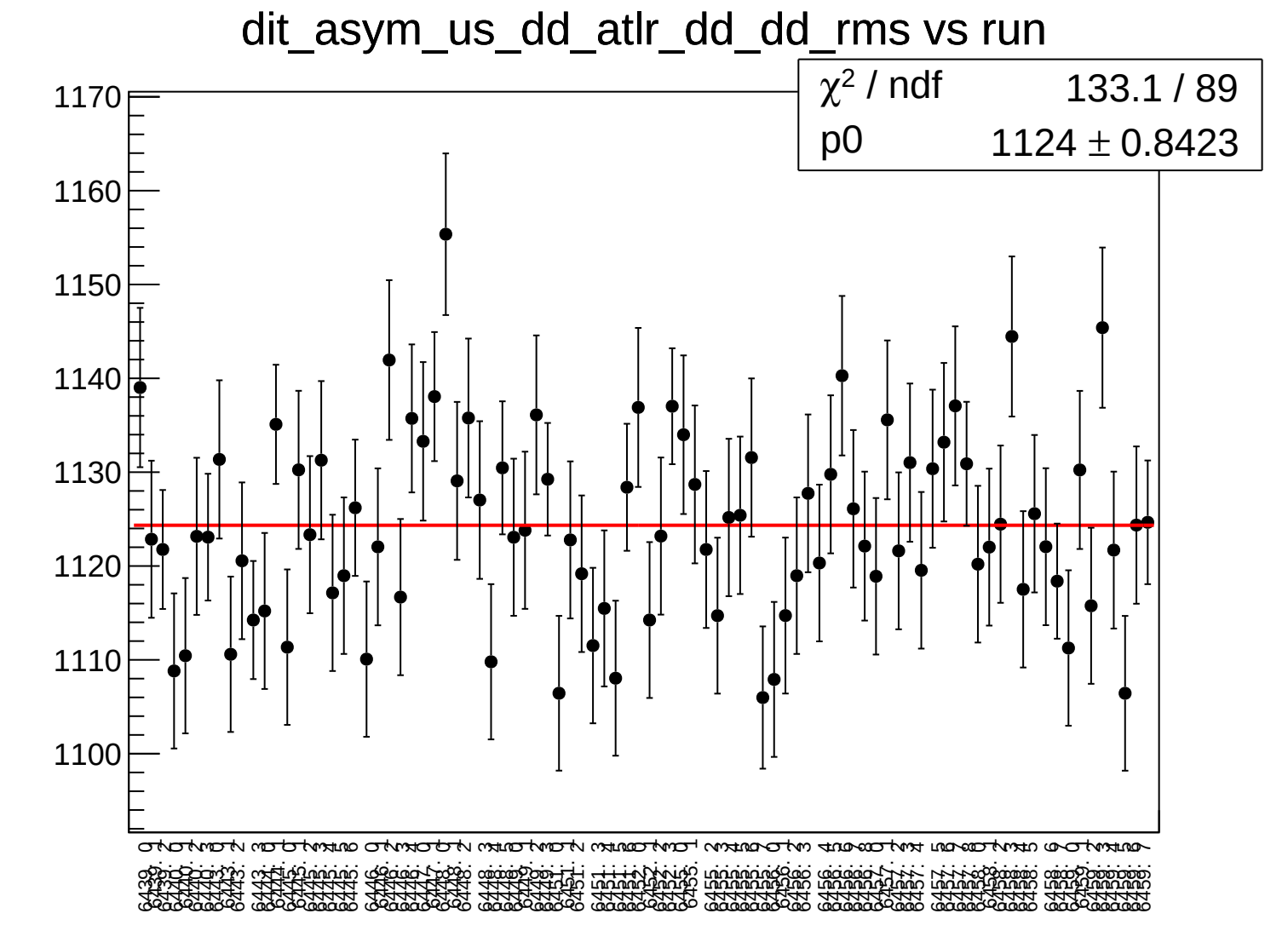

asym_us_dd_atlr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 73.91 / 89
p0 −965.6 ± 449.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 90
Mean 59.32
Std Dev 77.64
3
2
1
0
−1
−2

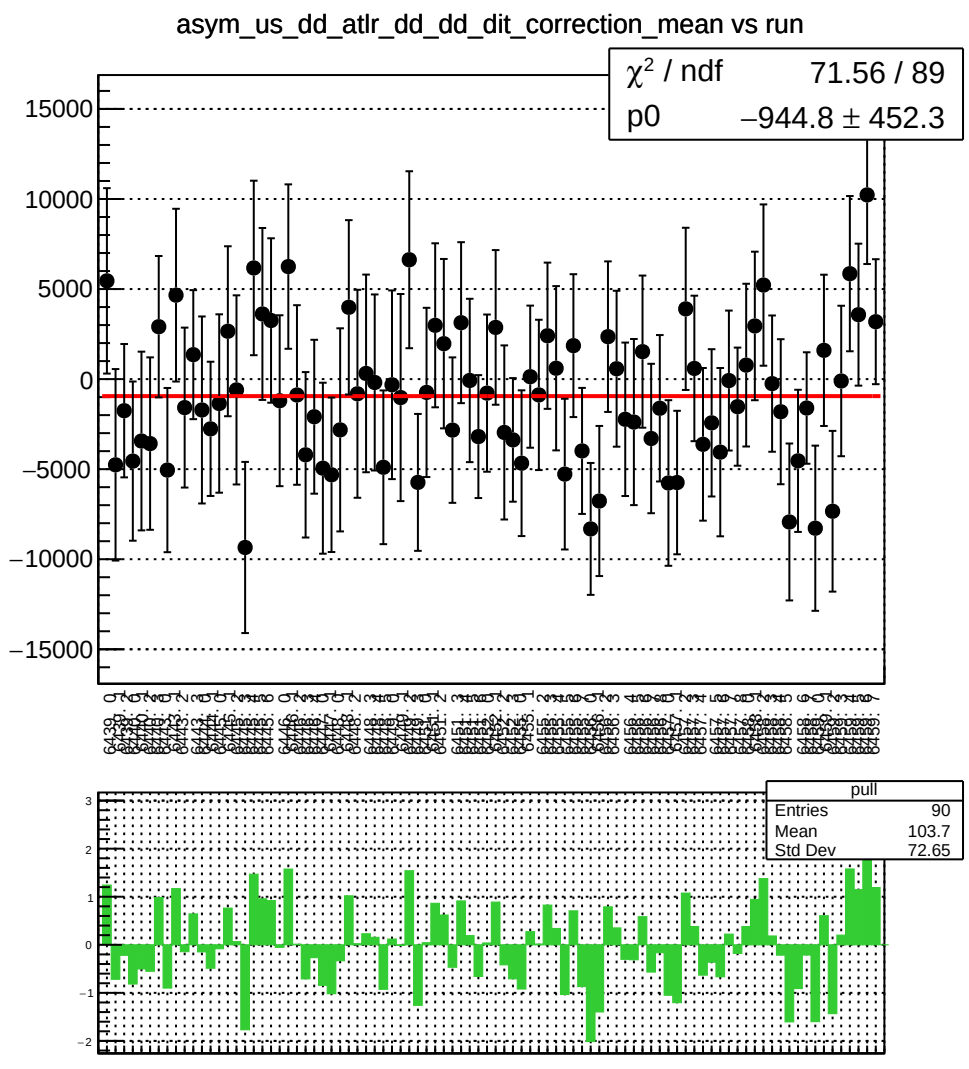

pull1D
Entries 90
Mean 0.01379
Std Dev 0.9061
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

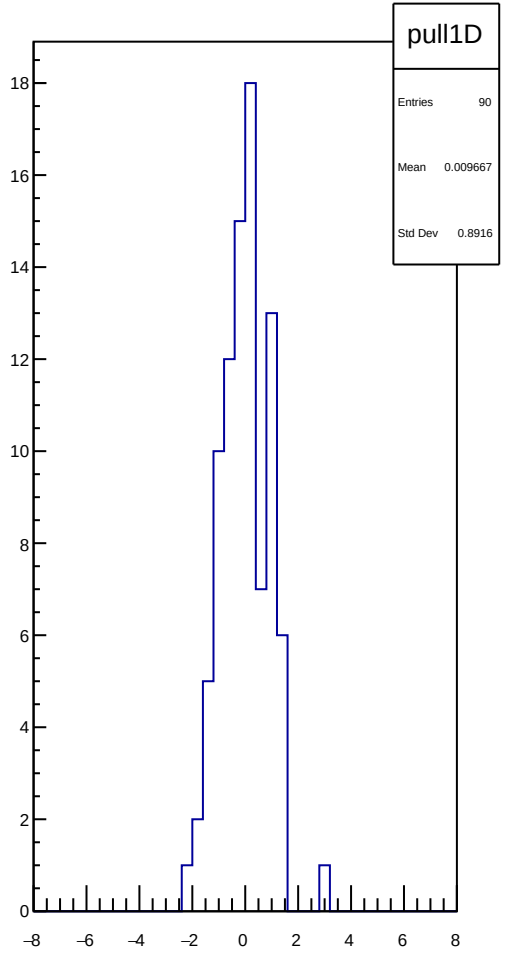

asym_us_dd_atlr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.007e+04 / 89
p0 421.6 ± 0.3176
550
500
450
400
350

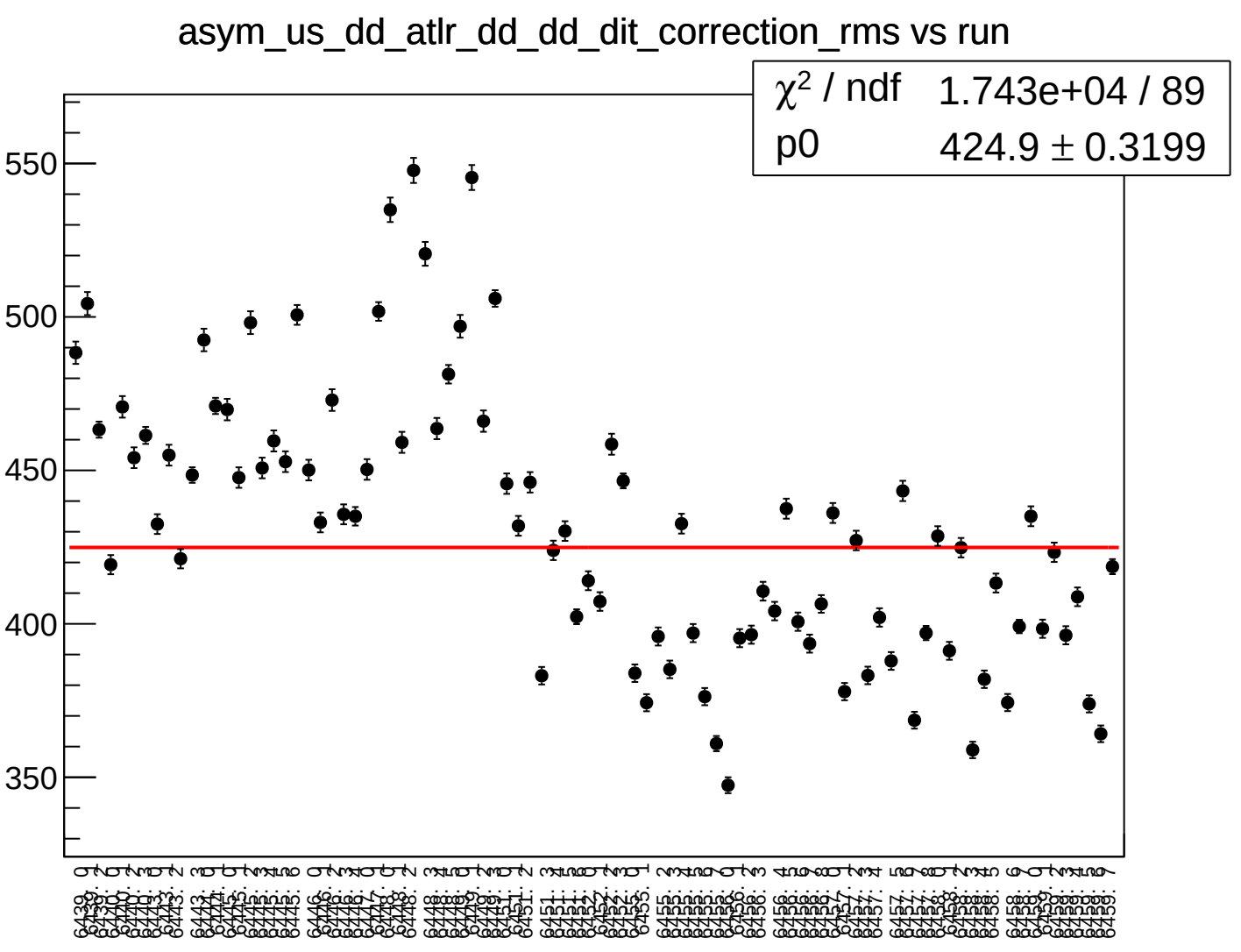

dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 85.37 / 89
p0 −337.8 ± 1191
pull
Entries 90
Mean −749
Std Dev 0

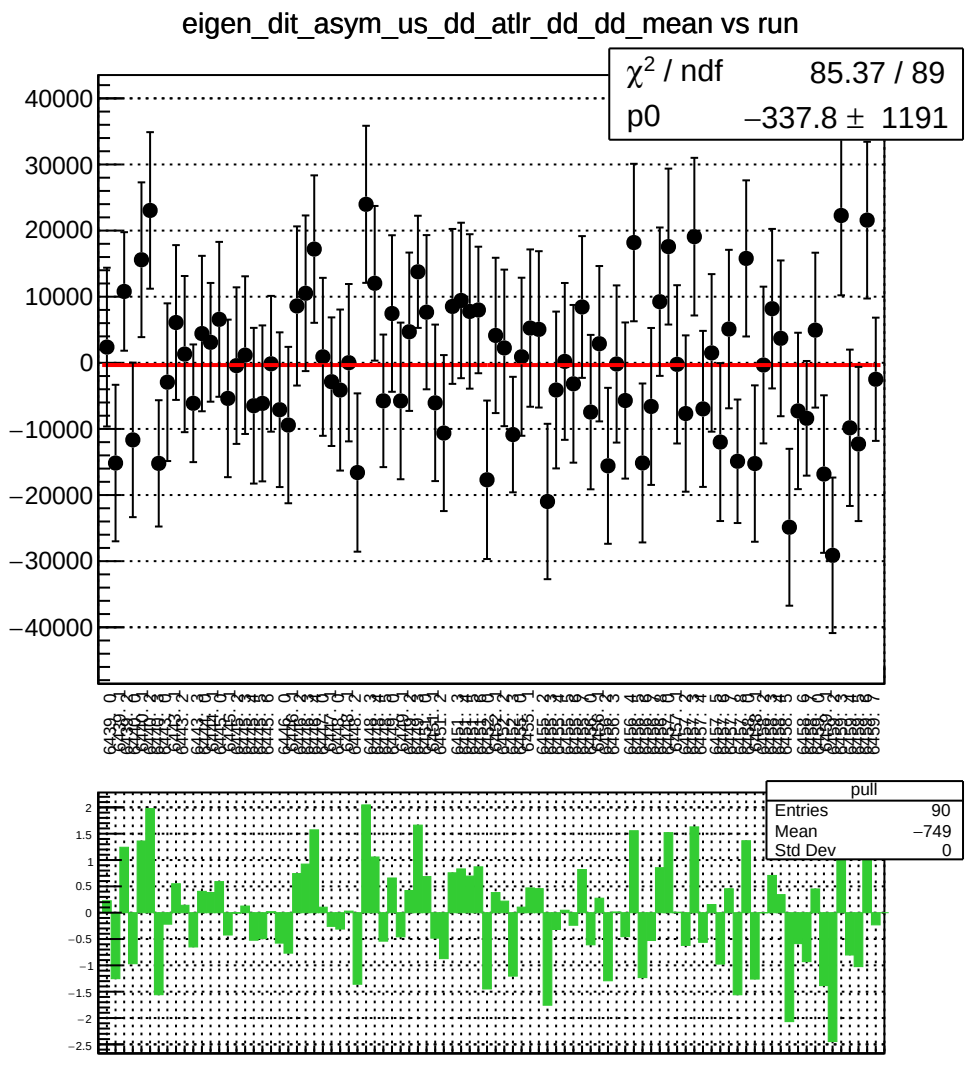

pull1D
Entries 90
Mean 0.004235
Std Dev 0.974

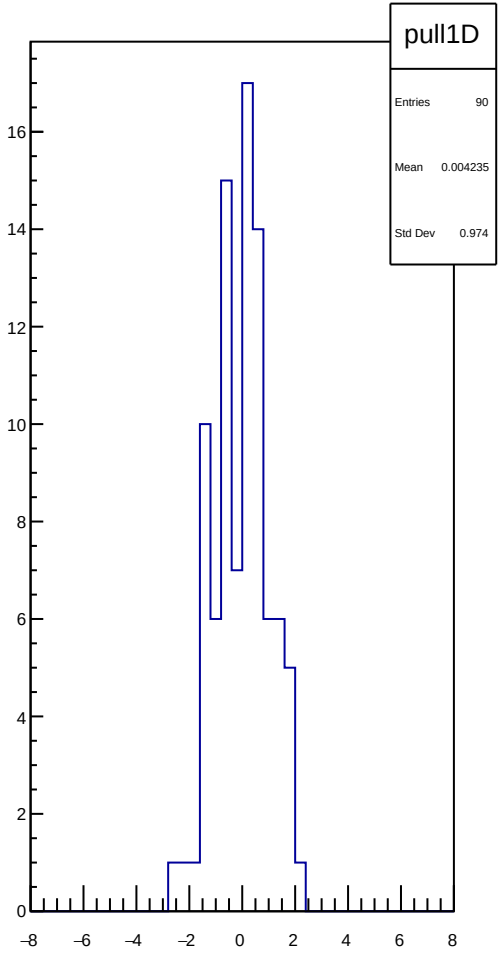

dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 133.1 / 89
p0 1124 ± 0.8423
1170
1160
1150
1140
1130
1120
1110
1100

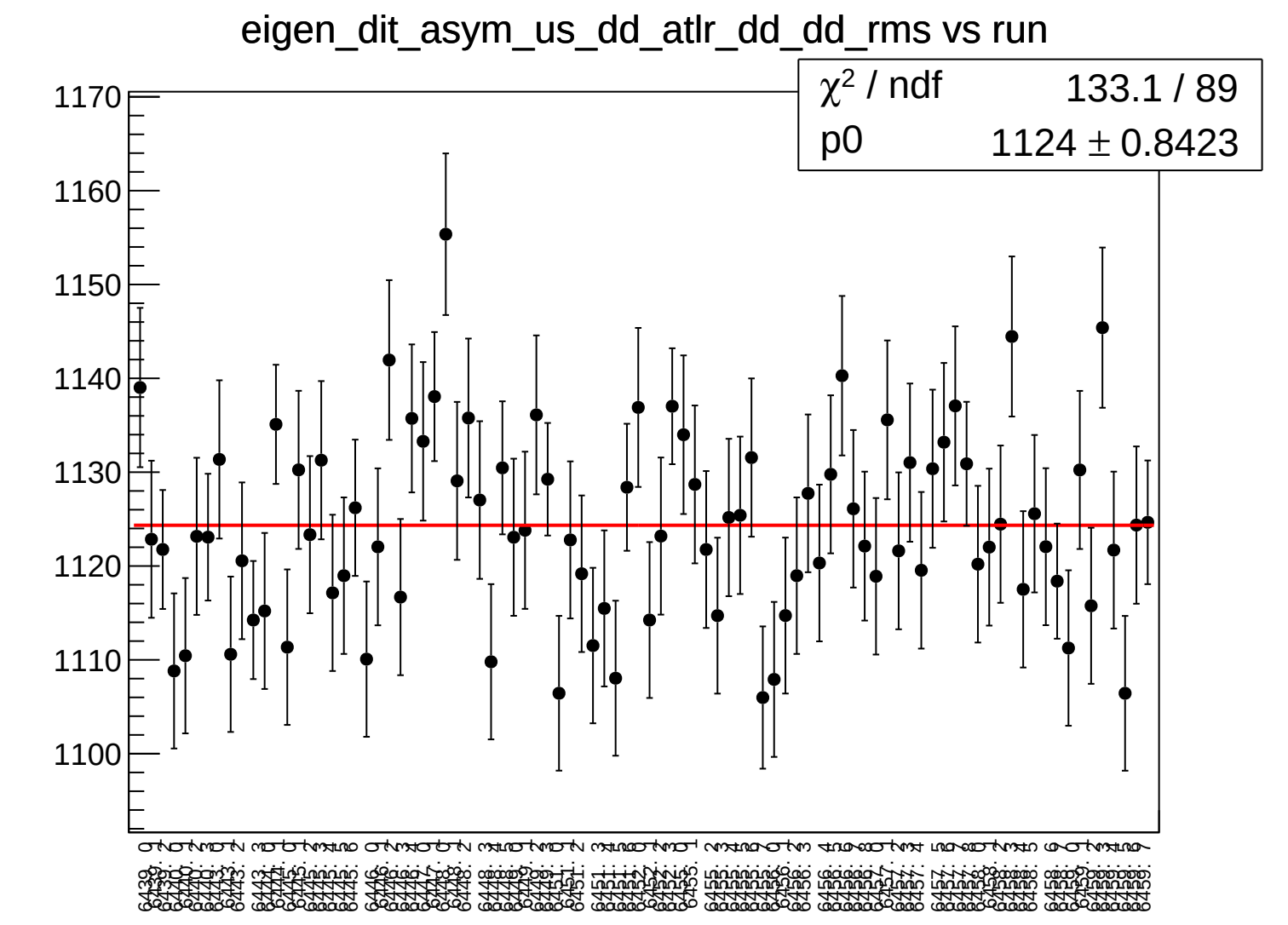

asym_us_dd_atlr_dd_dd_dit_correction_mean vs run
χ² / ndf 71.56 / 89
p0 −944.8 ± 452.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 90
Mean 103.7
Std Dev 72.65
3
2
1
0
−1
−2

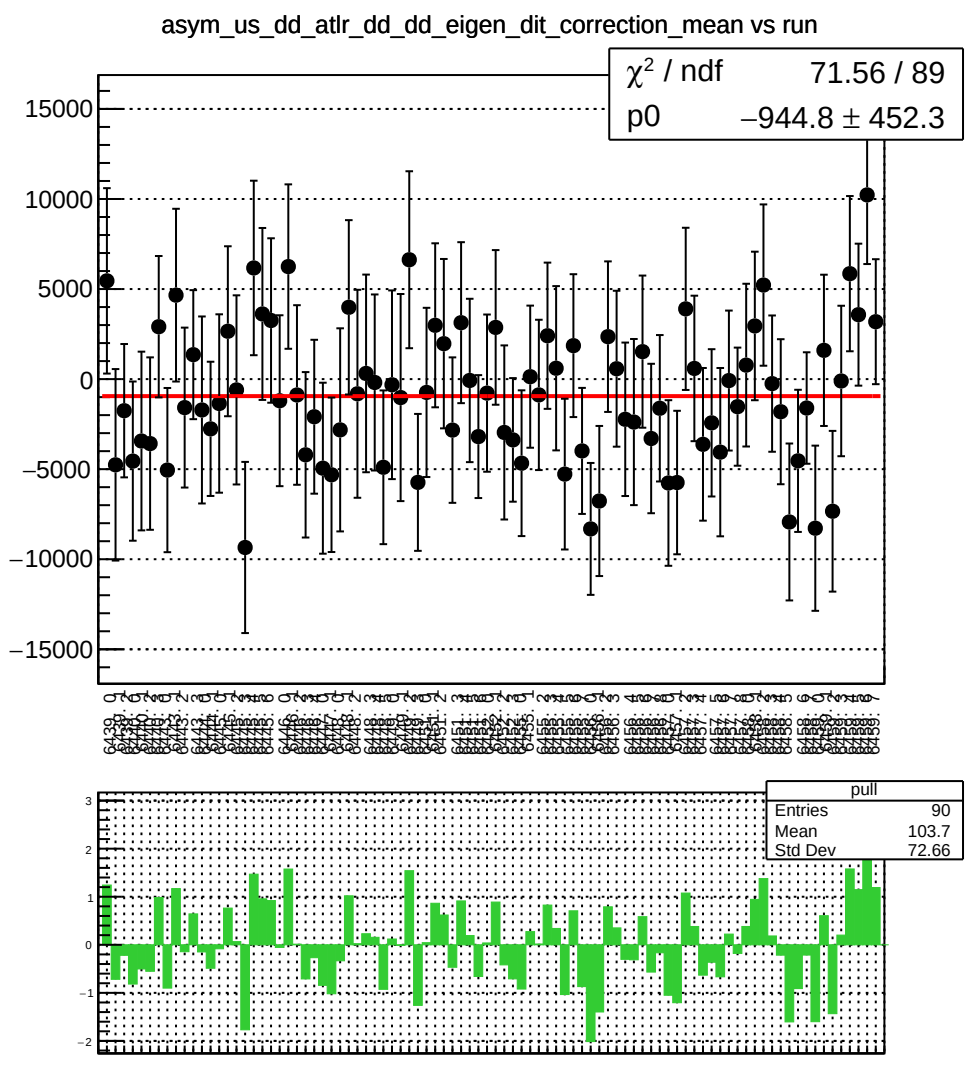

pull1D
Entries 90
Mean 0.009667
Std Dev 0.8916
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

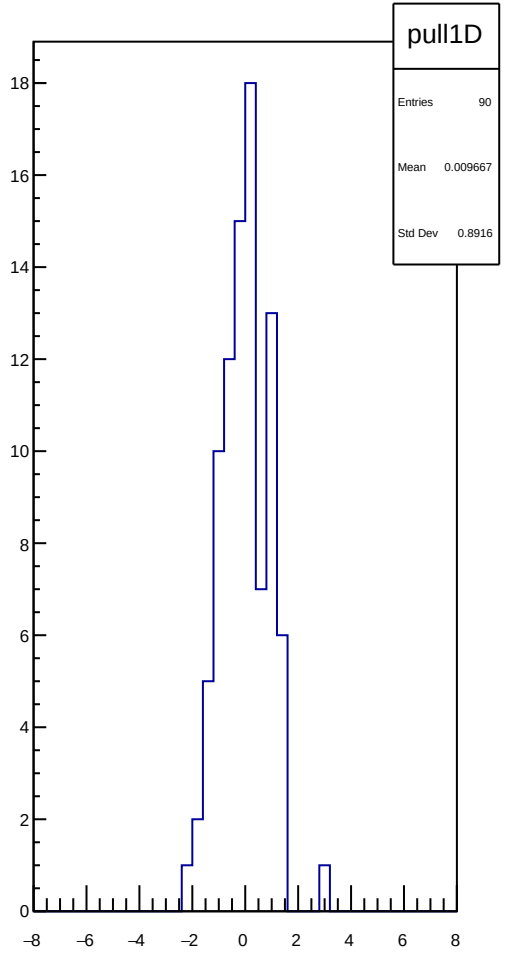

asym_us_dd_atlr_dd_dd_dit_correction_rms vs run
χ² / ndf 1.743e+04 / 89
p0 424.9 ± 0.3199
550
500
450
400
350

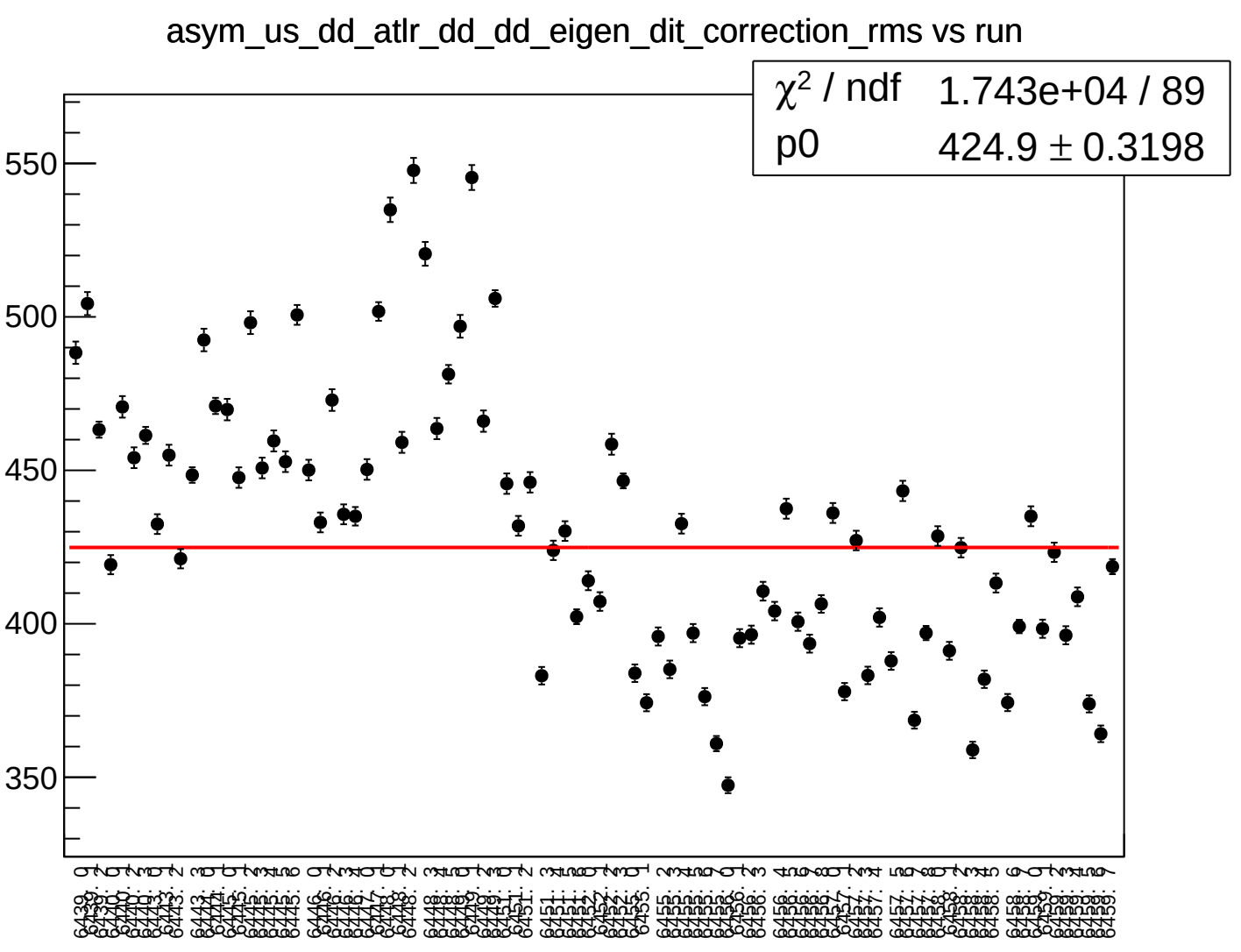

eigen_dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 85.37 / 89
p0 −337.8 ± 1191
pull
Entries 90
Mean −749
Std Dev 0

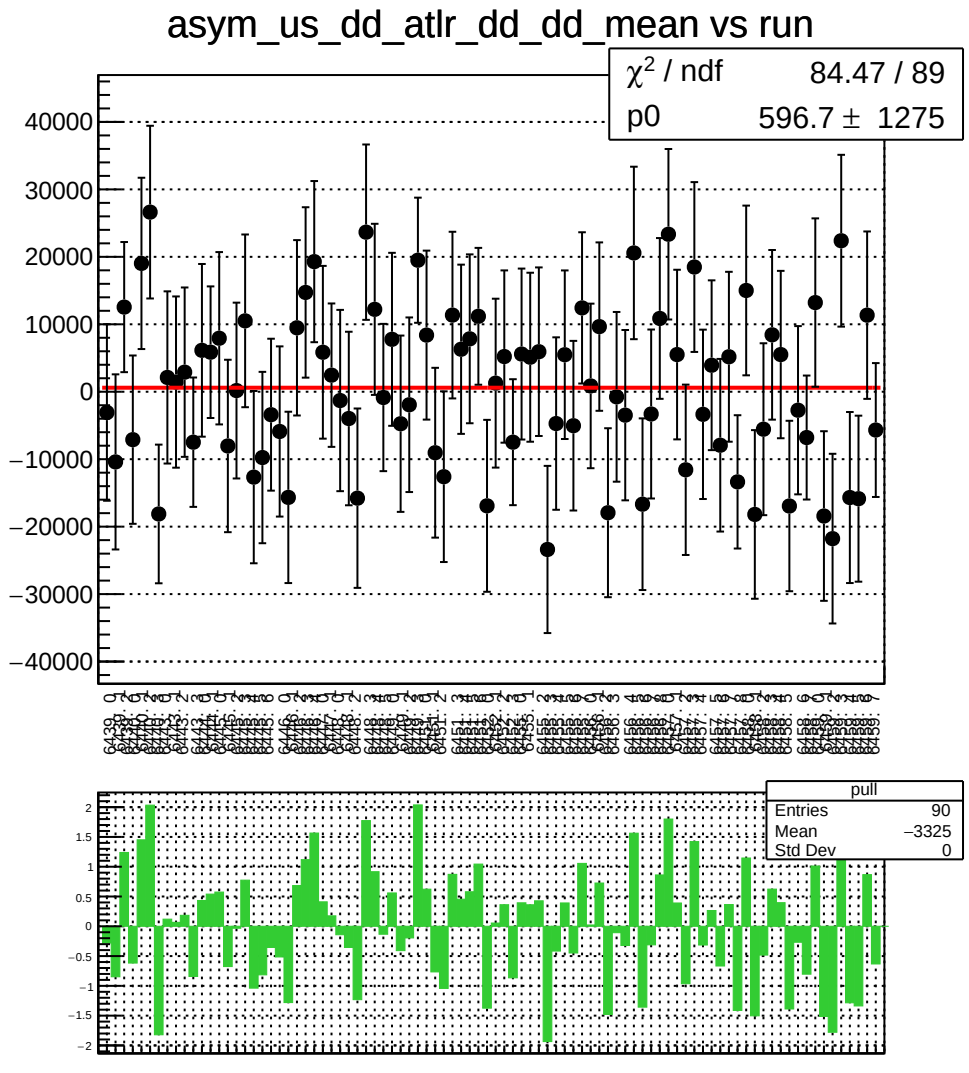

pull1D
Entries 90
Mean 0.004235
Std Dev 0.974

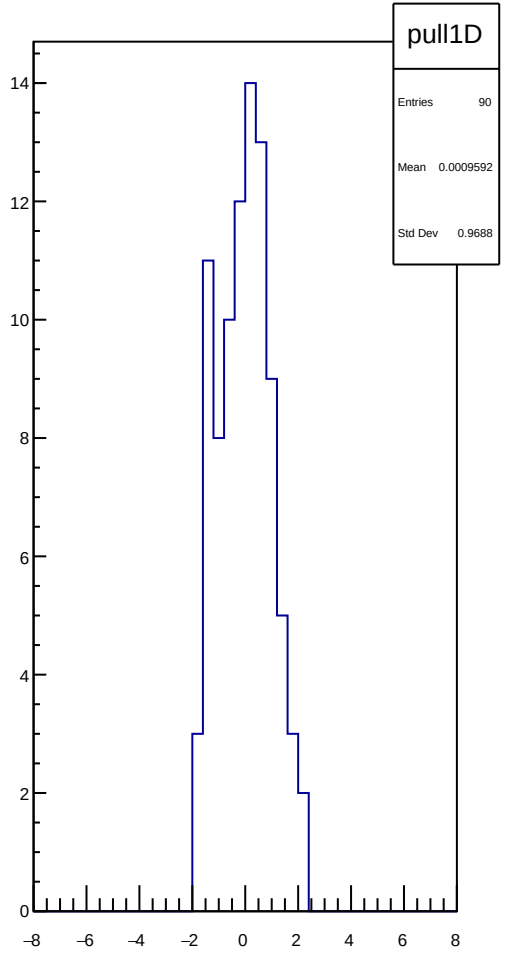

eigen_dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 133.1 / 89
p0 1124 ± 0.8423
1170
1160
1150
1140
1130
1120
1110
1100

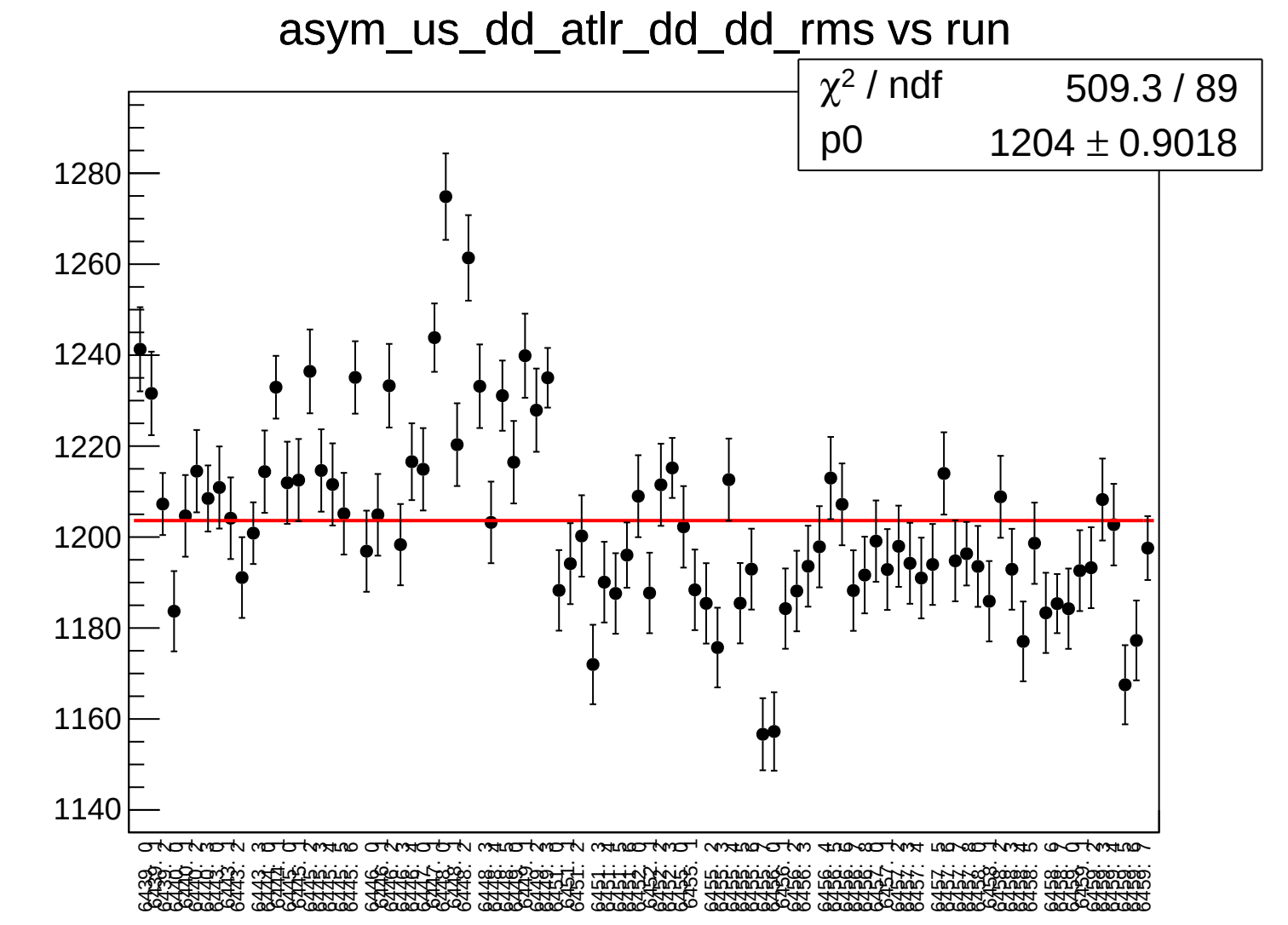

asym_us_dd_atlr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 71.56 / 89
p0 −944.8 ± 452.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 90
Mean 103.7
Std Dev 72.66
3
2
1
0
−1
−2

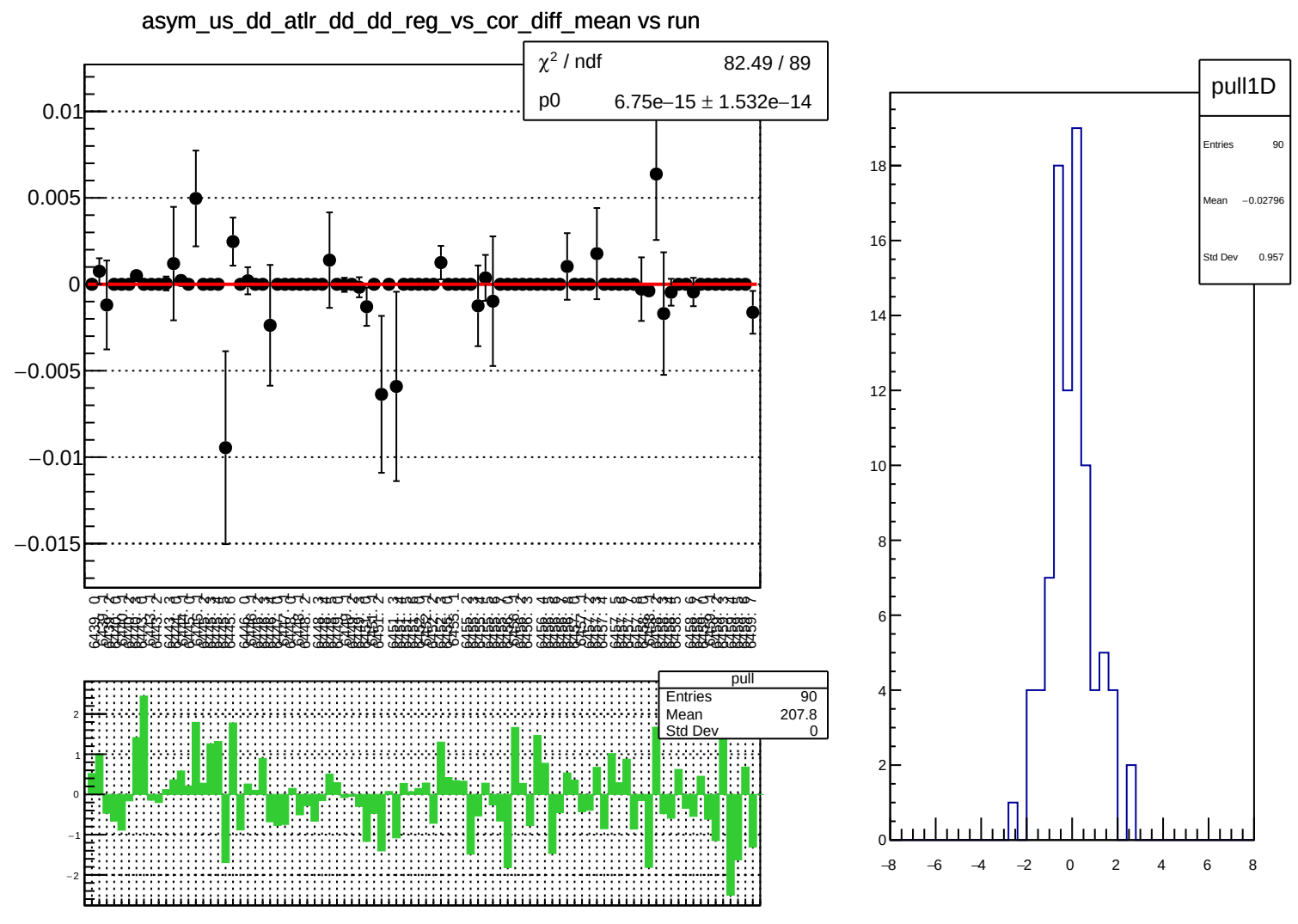

pull1D
Entries 90
Mean 0.009667
Std Dev 0.8916
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

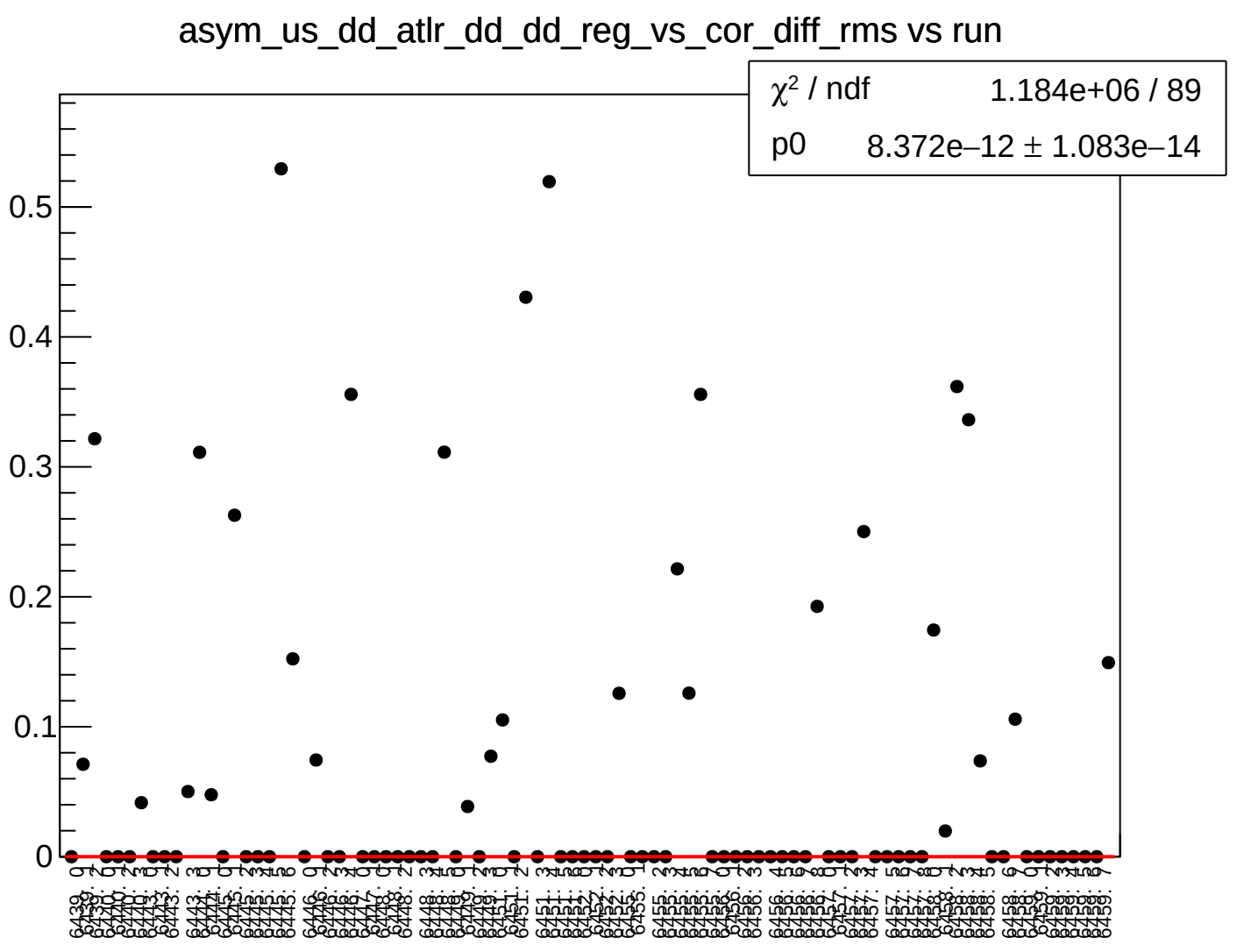

asym_us_dd_atlr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.743e+04 / 89
p0 424.9 ± 0.3198
550
500
450
400
350

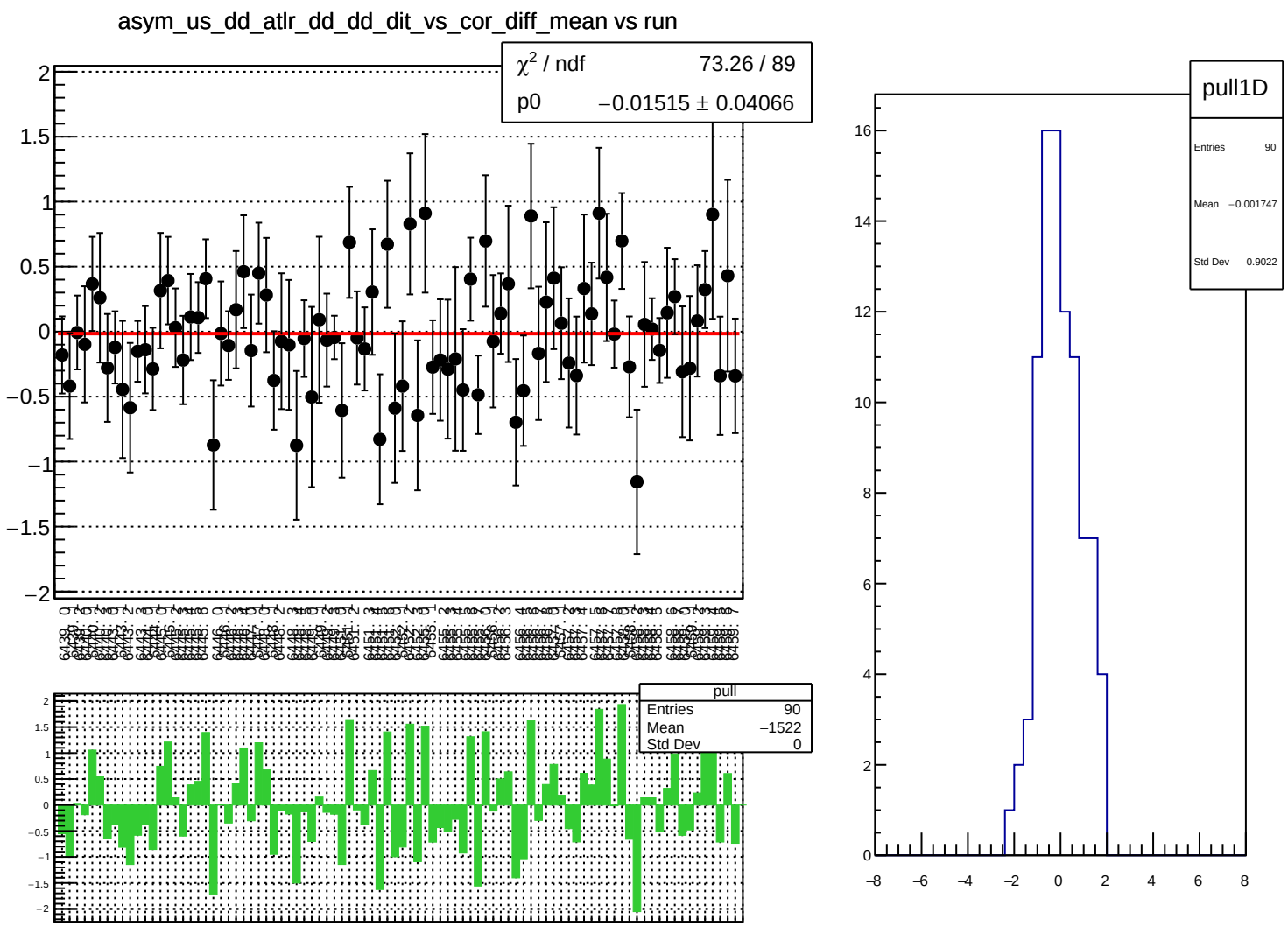

asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 84.47 / 89
p0 596.7 ± 1275
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 90
Mean −3325
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

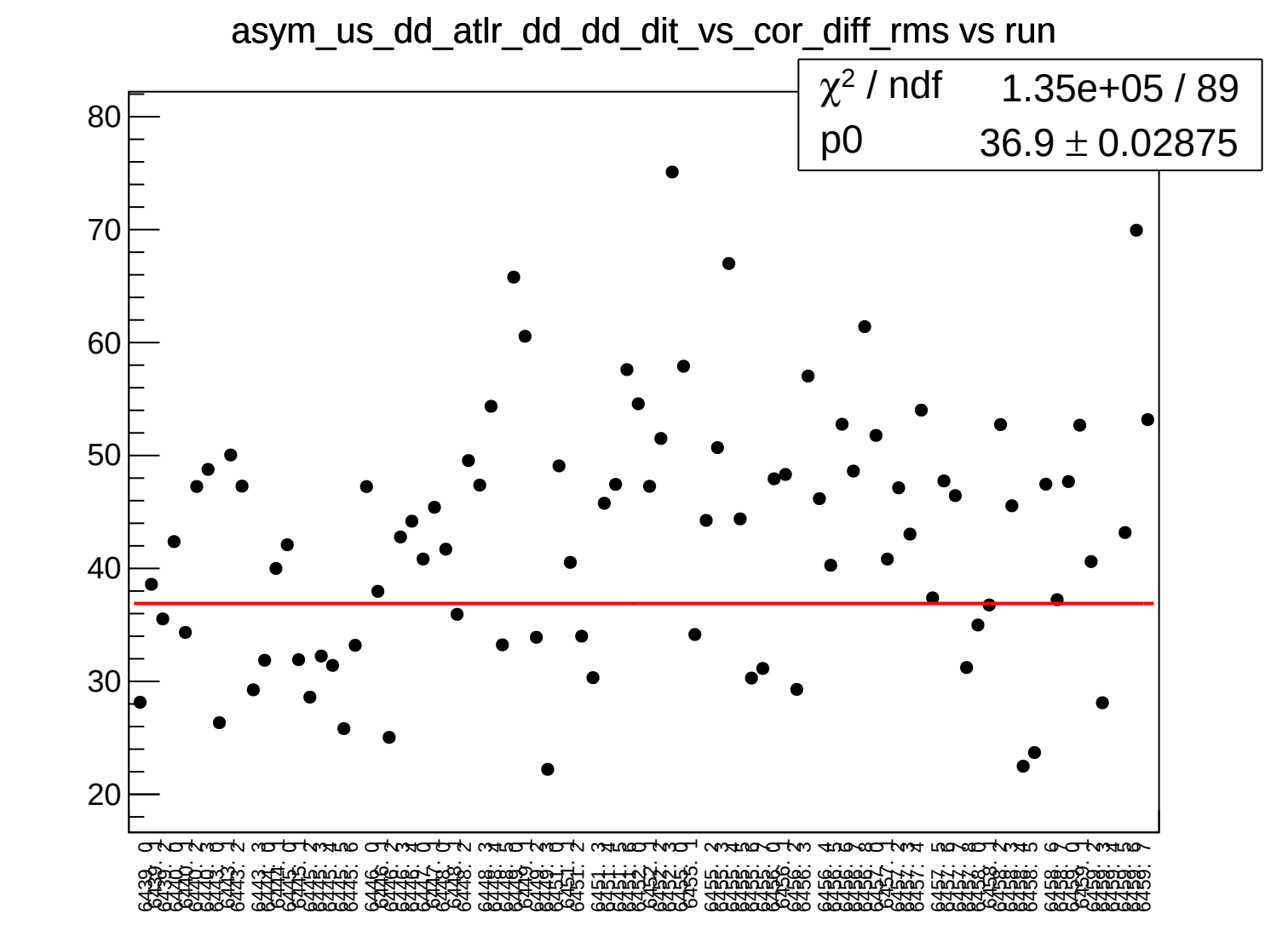

pull1D
Entries 90
Mean 0.0009592
Std Dev 0.9688
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

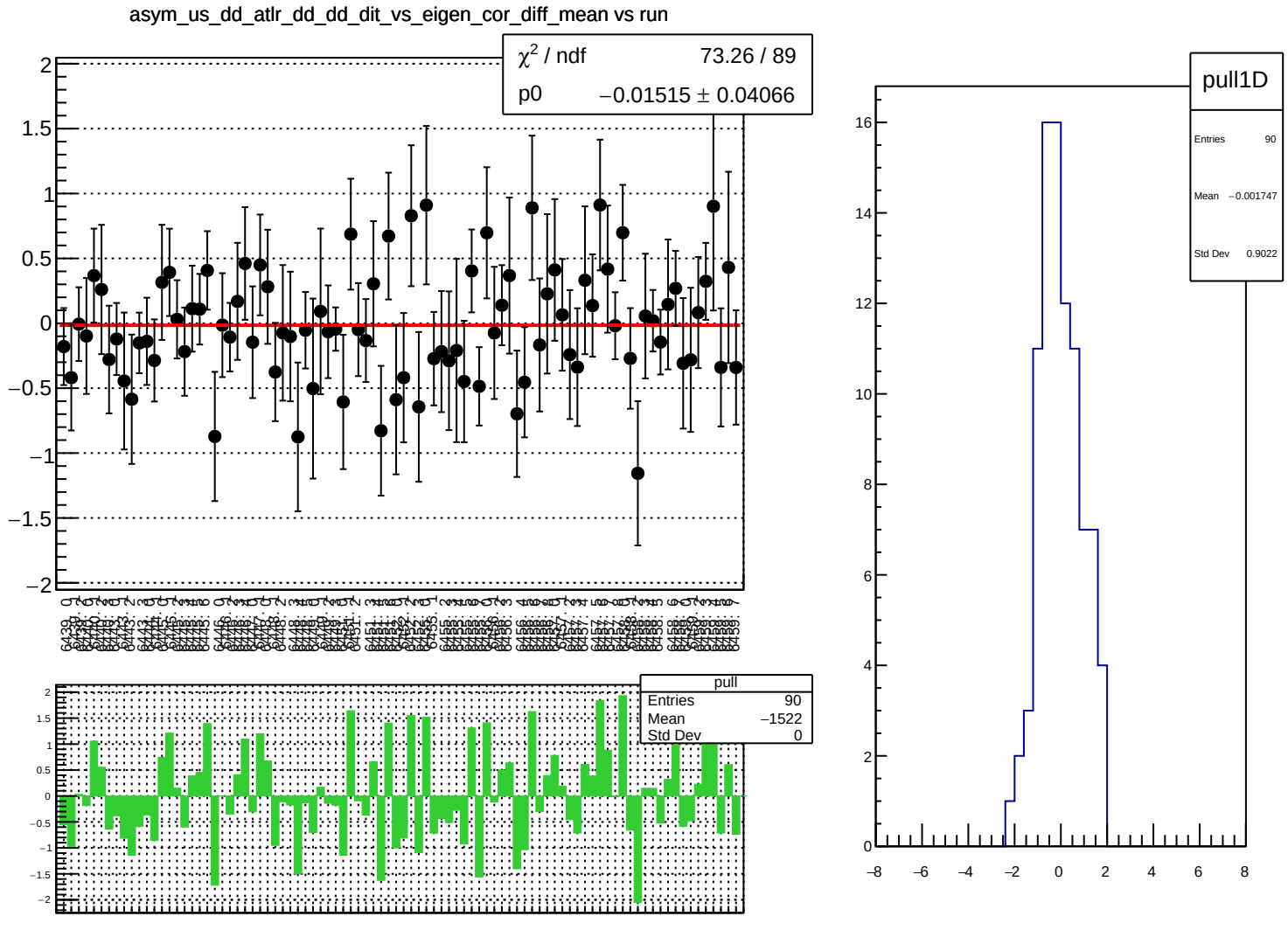

asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 509.3 / 89
p0 1204 ± 0.9018
1280
1260
1240
1220
1200
1180
1160
1140

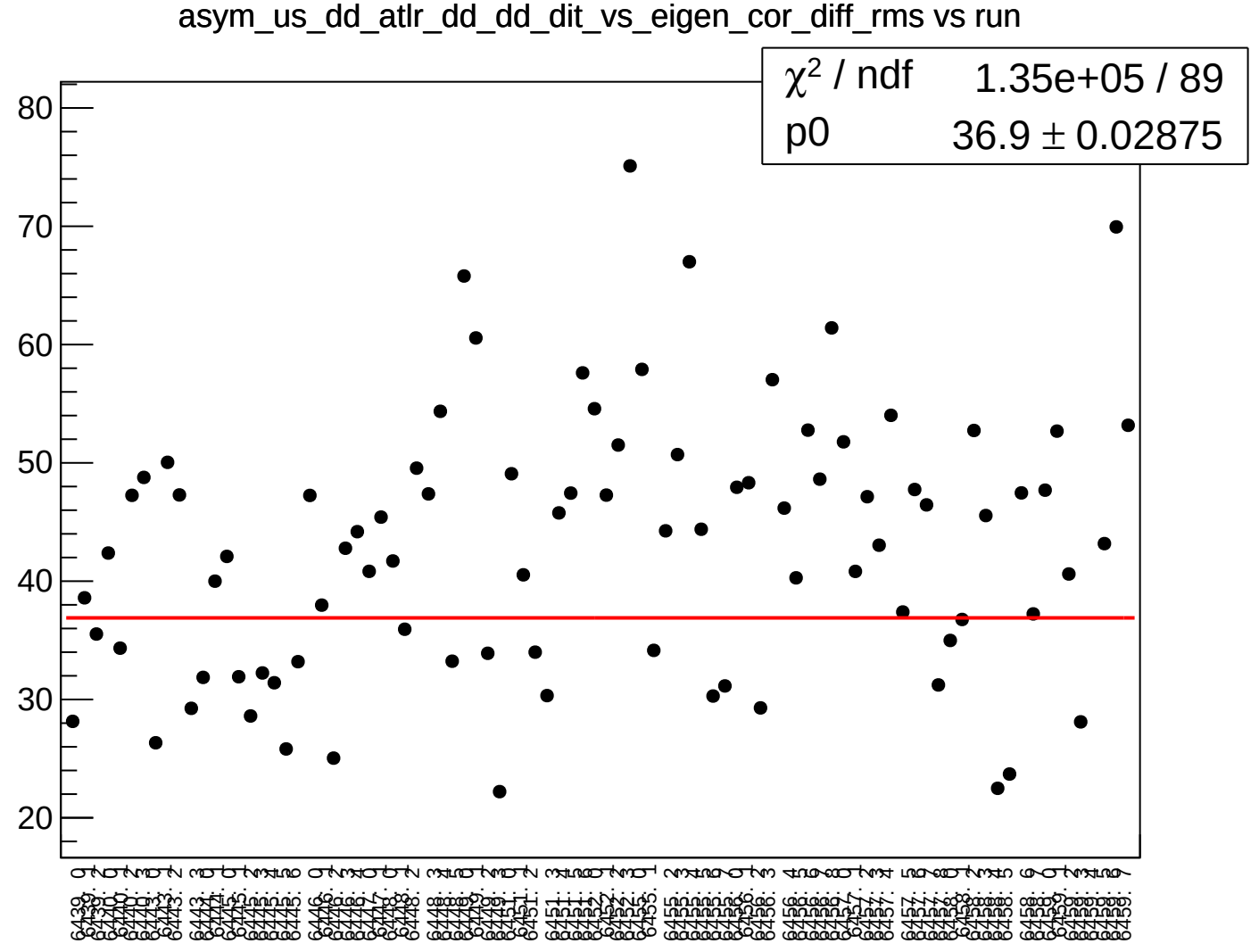

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 82.49 / 89
p0 6.75e−15 ± 1.532e−14
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 90
Mean 207.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.02796
Std Dev 0.957
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

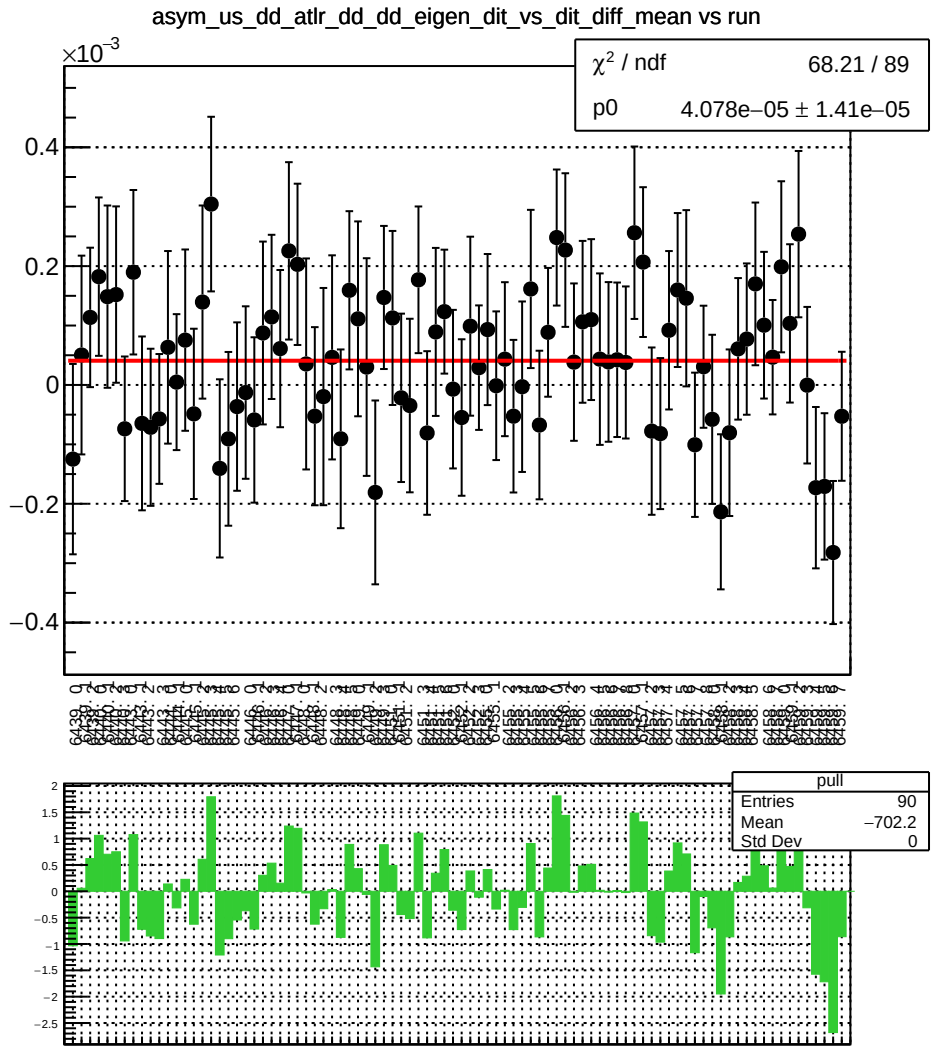

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.184e+06 / 89
p0 8.372e−12 ± 1.083e−14
0.5
0.4
0.3
0.2
0.1
0

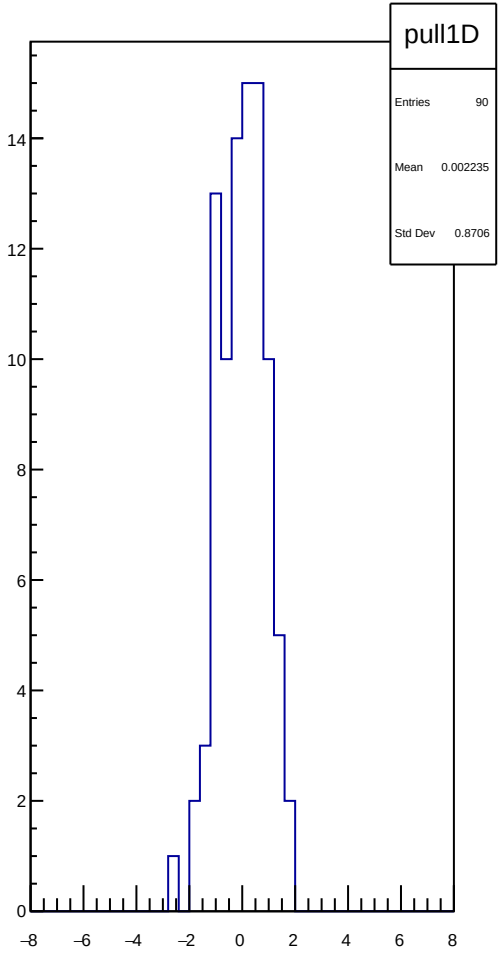

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 73.26 / 89
p0 −0.01515 ± 0.04066
pull
Entries 90
Mean −1522
Std Dev 0
pull1D
Entries 90
Mean −0.001747
Std Dev 0.9022

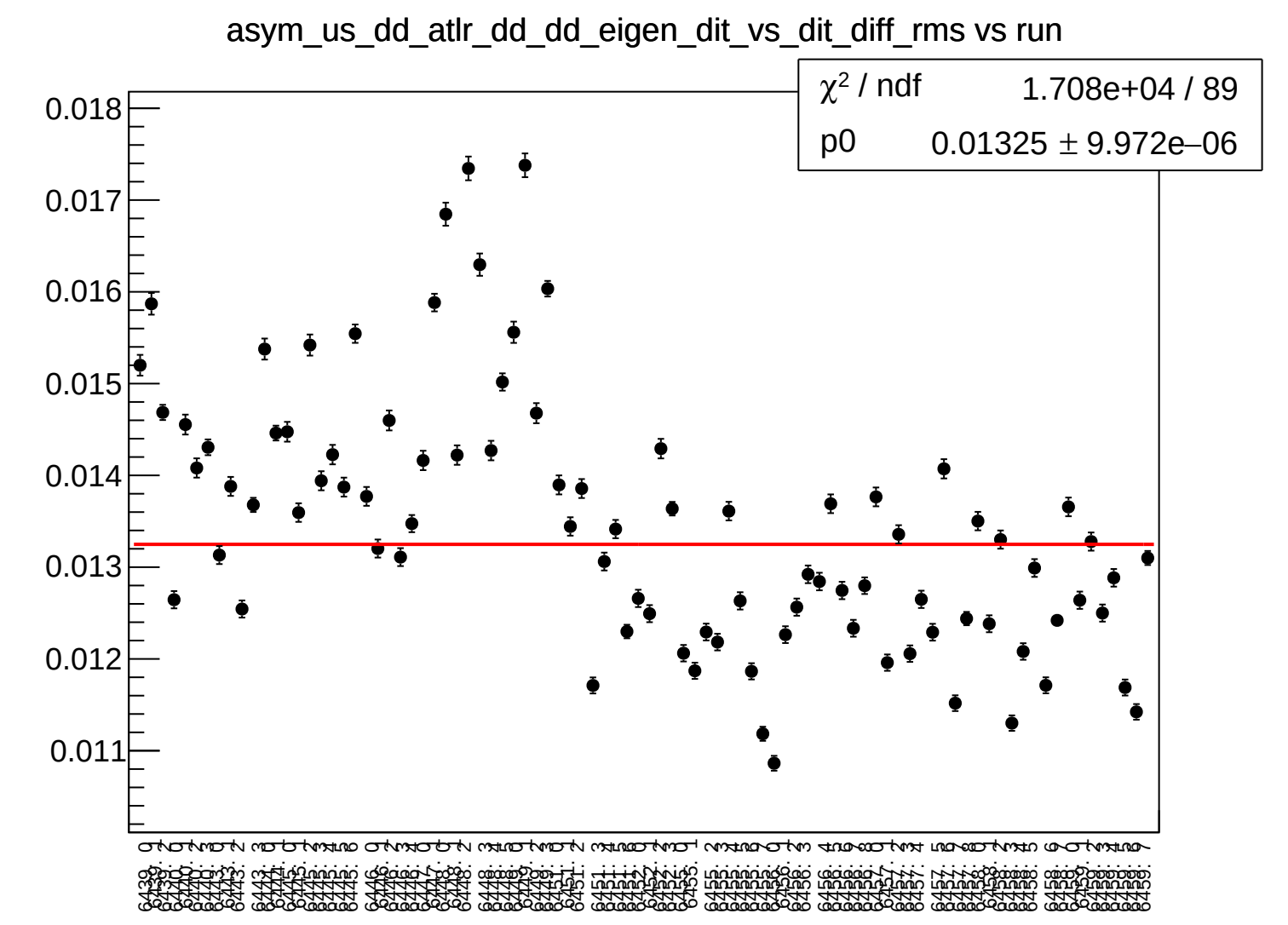

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.35e+05 / 89
p0 36.9 ± 0.02875
80
70
60
50
40
30
20

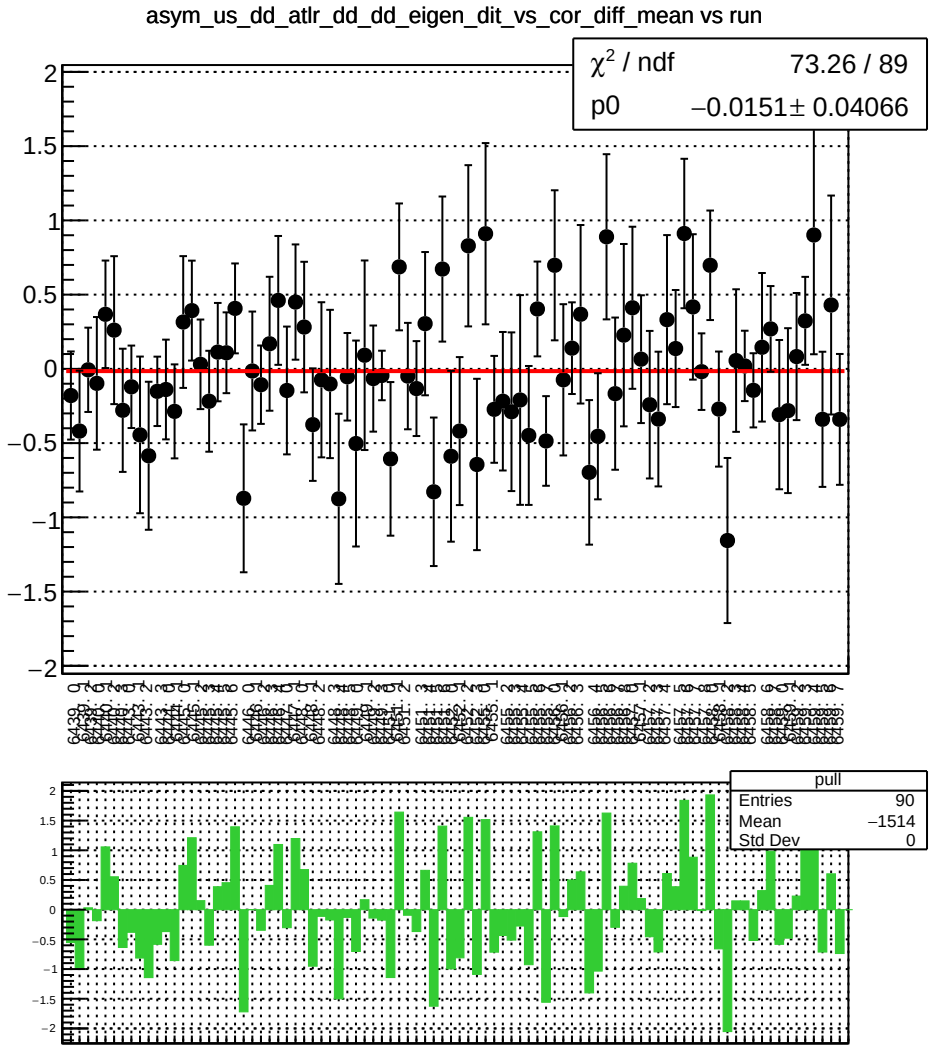

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.26 / 89
p0 −0.01515 ± 0.04066
pull
Entries 90
Mean −1522
Std Dev 0
pull1D
Entries 90
Mean −0.001747
Std Dev 0.9022

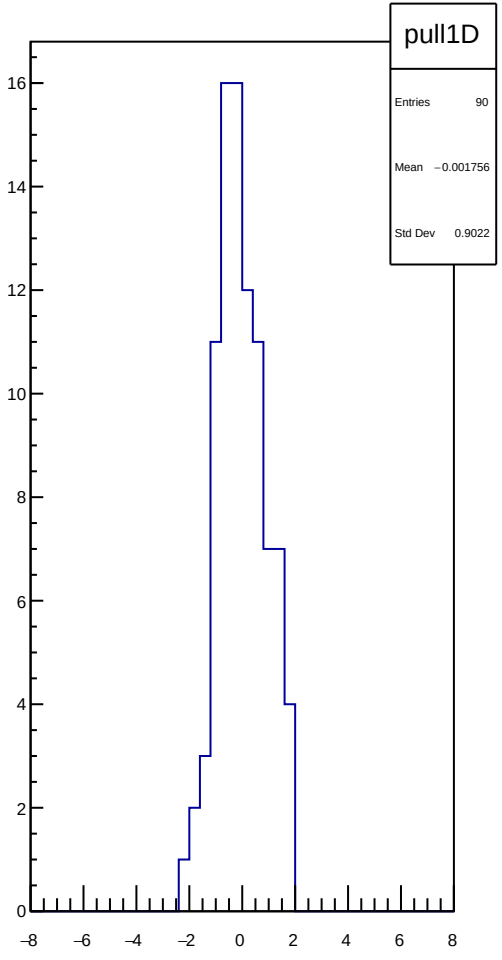

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.35e+05 / 89
p0 36.9 ± 0.02875
80
70
60
50
40
30
20

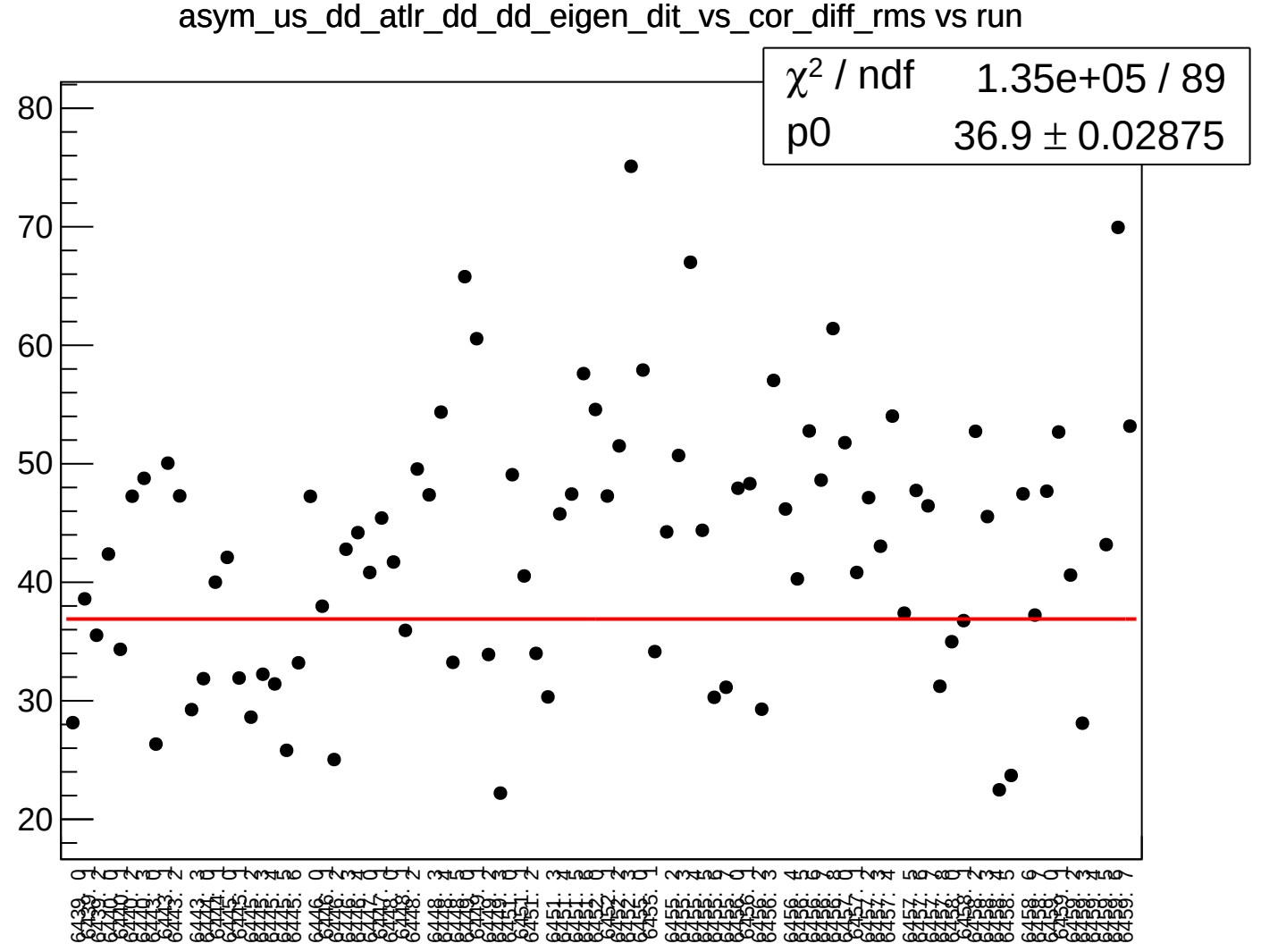

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 68.21 / 89
p0 4.078e−05 ± 1.41e−05
0.4
0.2
0
−0.2
−0.4
pull
Entries 90
Mean −702.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

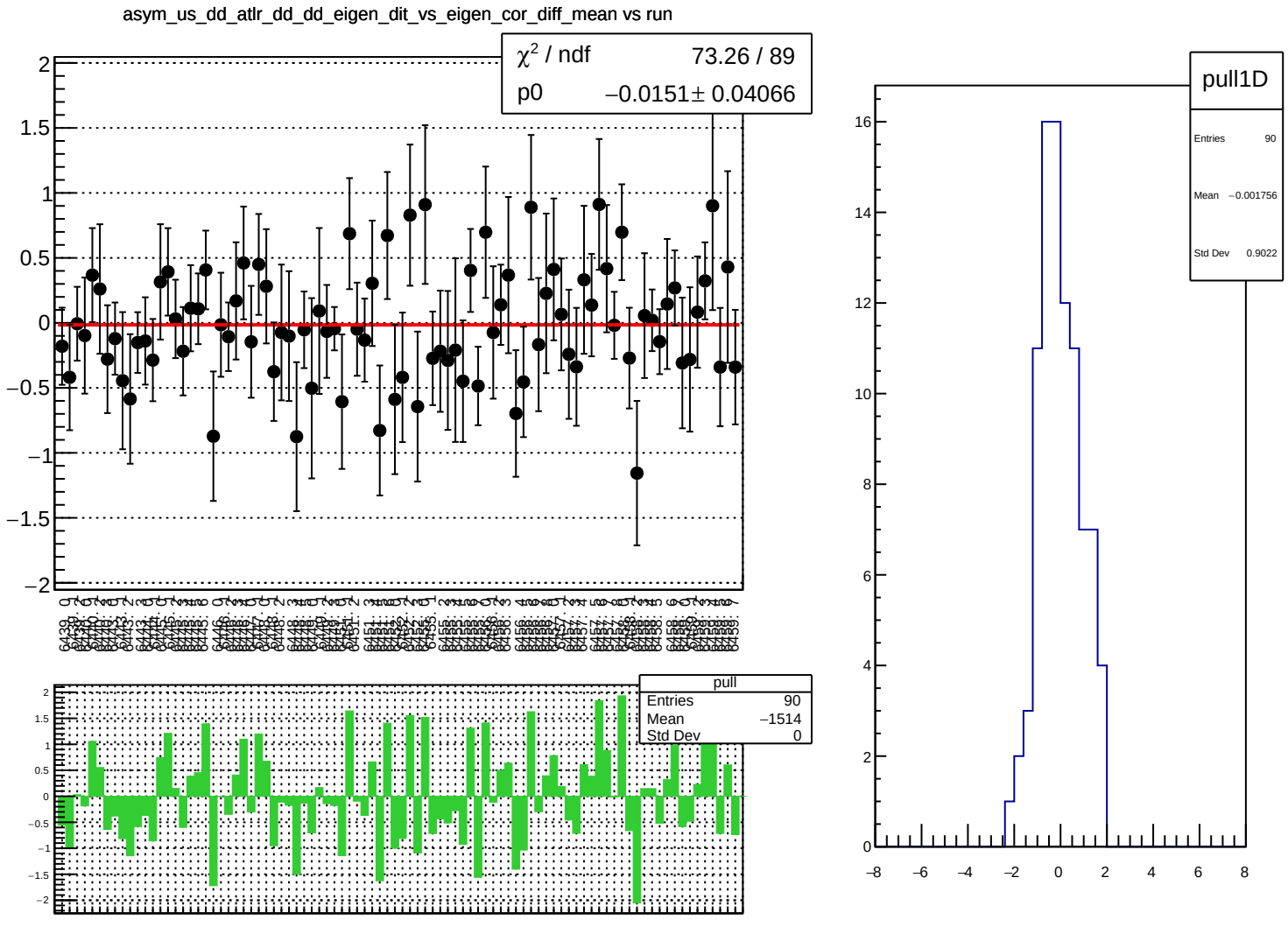

pull1D
Entries 90
Mean 0.002235
Std Dev 0.8706
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

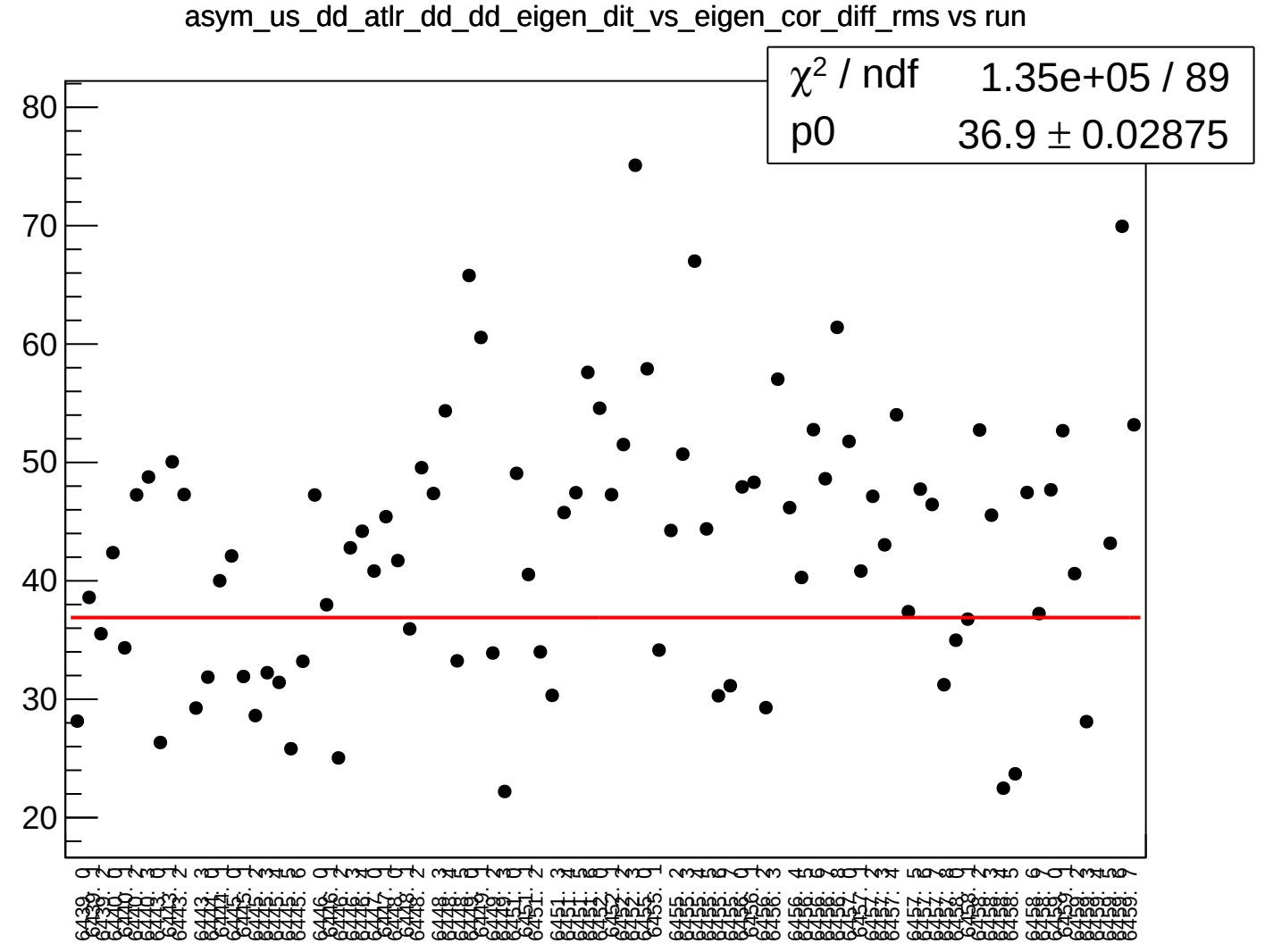

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.708e+04 / 89
p0 0.01325 ± 9.972e–06
0.018
0.017
0.016
0.015
0.014
0.013
0.012
0.011

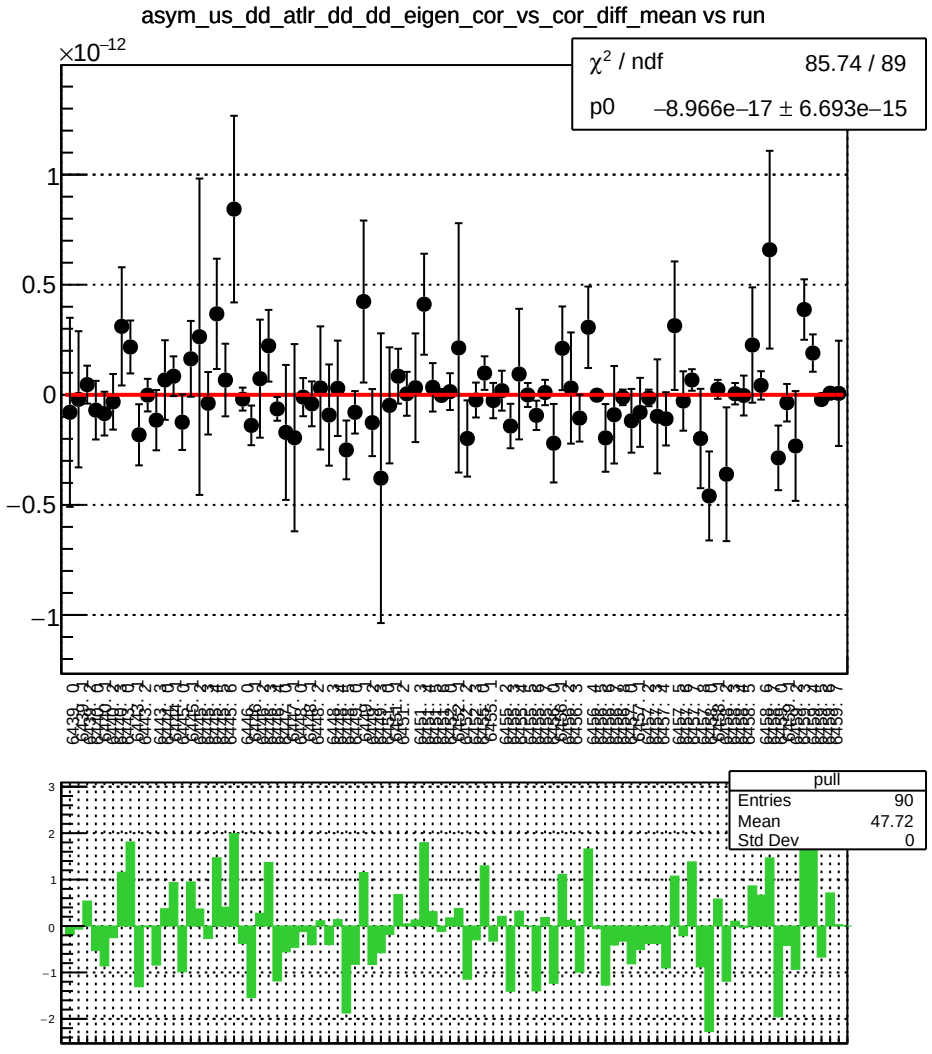

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 73.26 / 89
p0 −0.0151± 0.04066
pull
Entries 90
Mean −1514
Std Dev 0

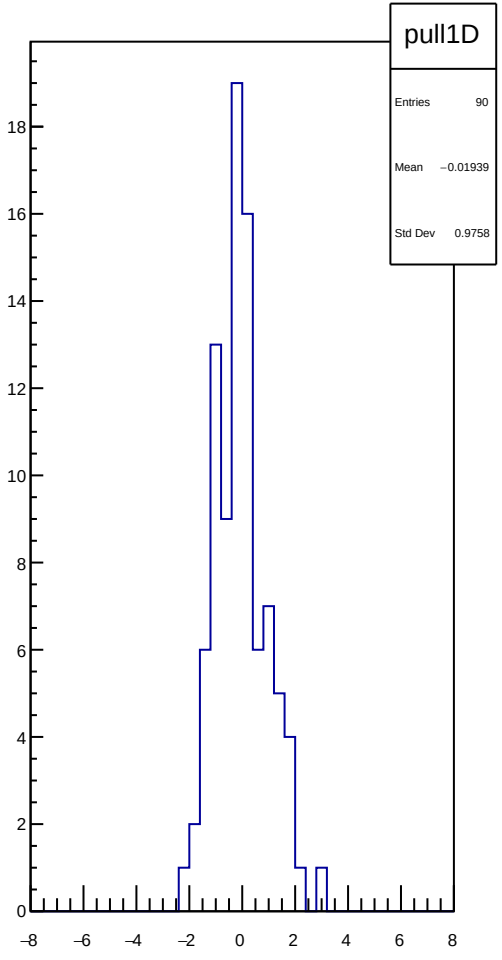

pull1D
Entries 90
Mean −0.001756
Std Dev 0.9022

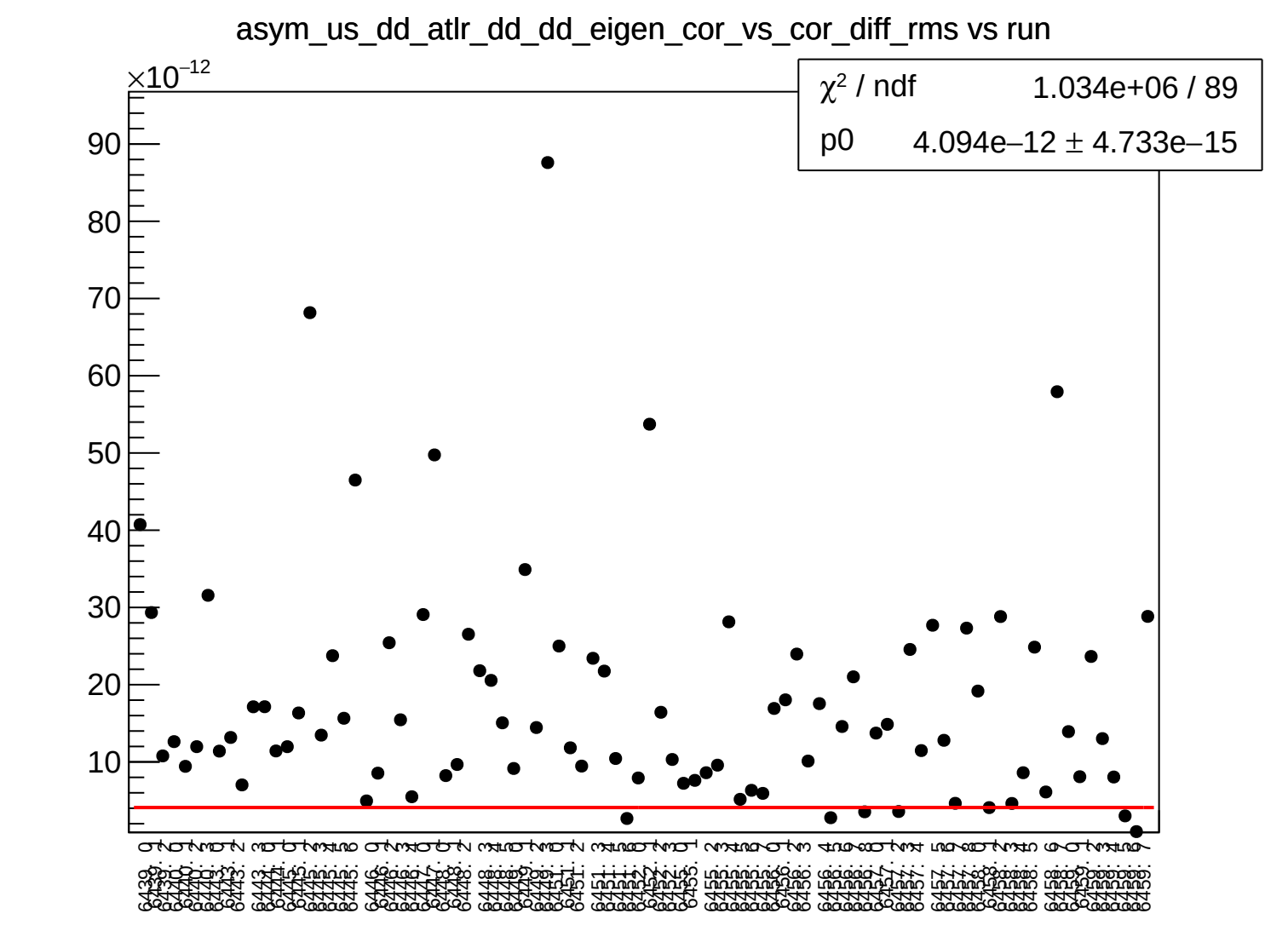

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.35e+05 / 89
p0 36.9 ± 0.02875
80
70
60
50
40
30
20

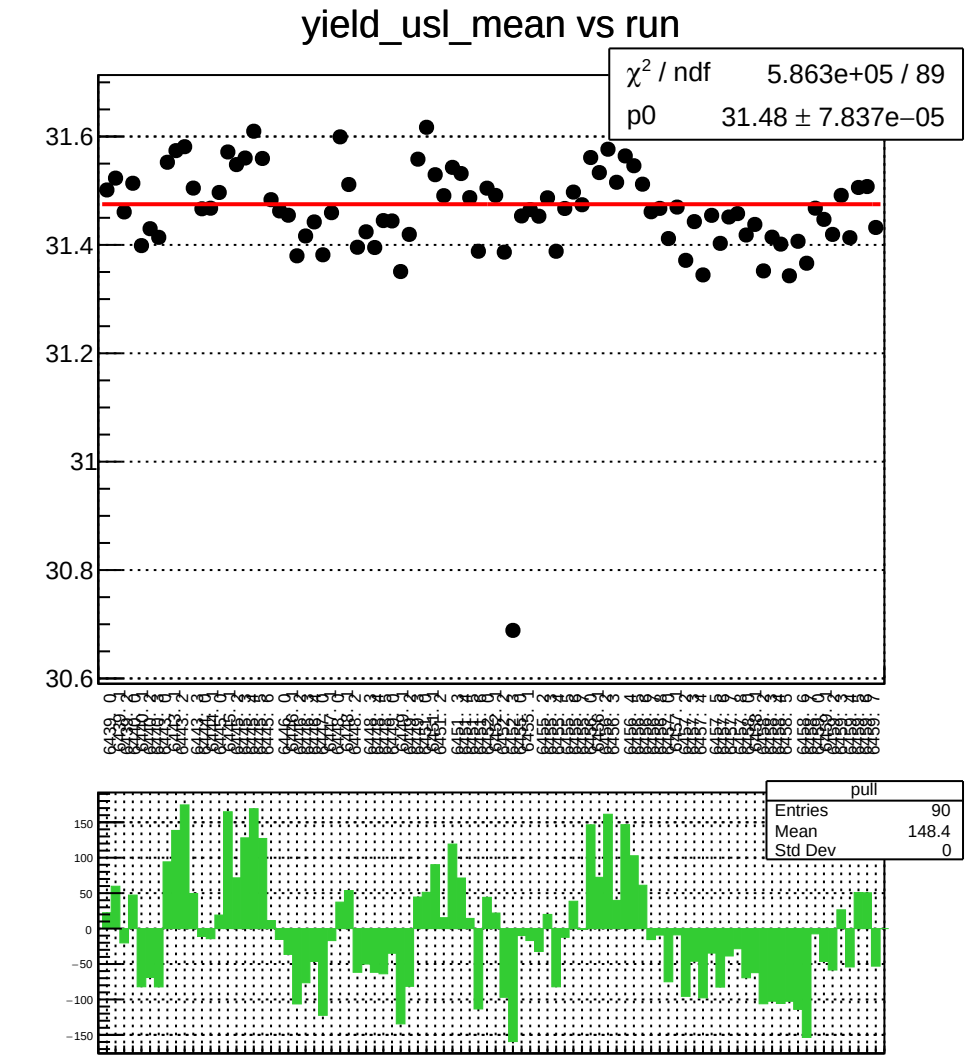

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.26 / 89
p0 −0.0151± 0.04066
pull
Entries 90
Mean −1514
Std Dev 0
pull1D
Entries 90
Mean −0.001756
Std Dev 0.9022

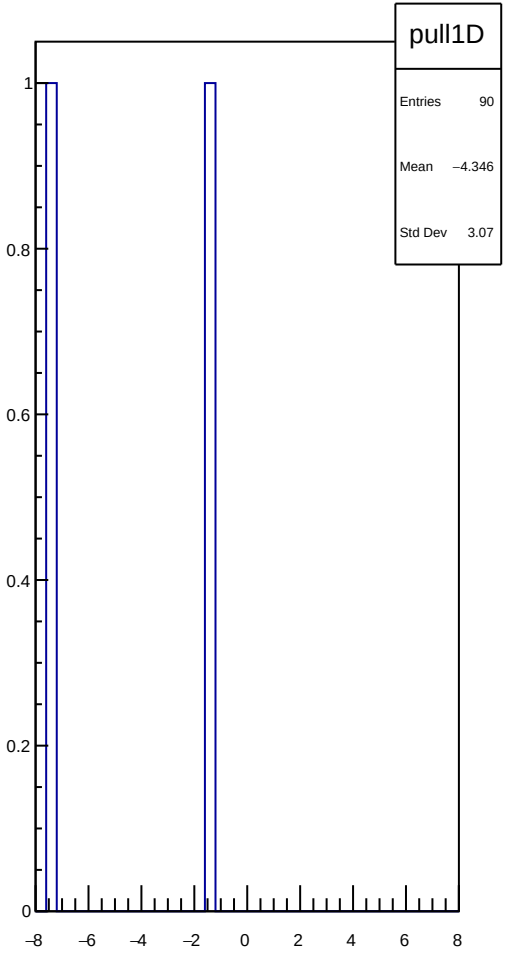

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.35e+05 / 89
p0 36.9 ± 0.02875
80
70
60
50
40
30
20

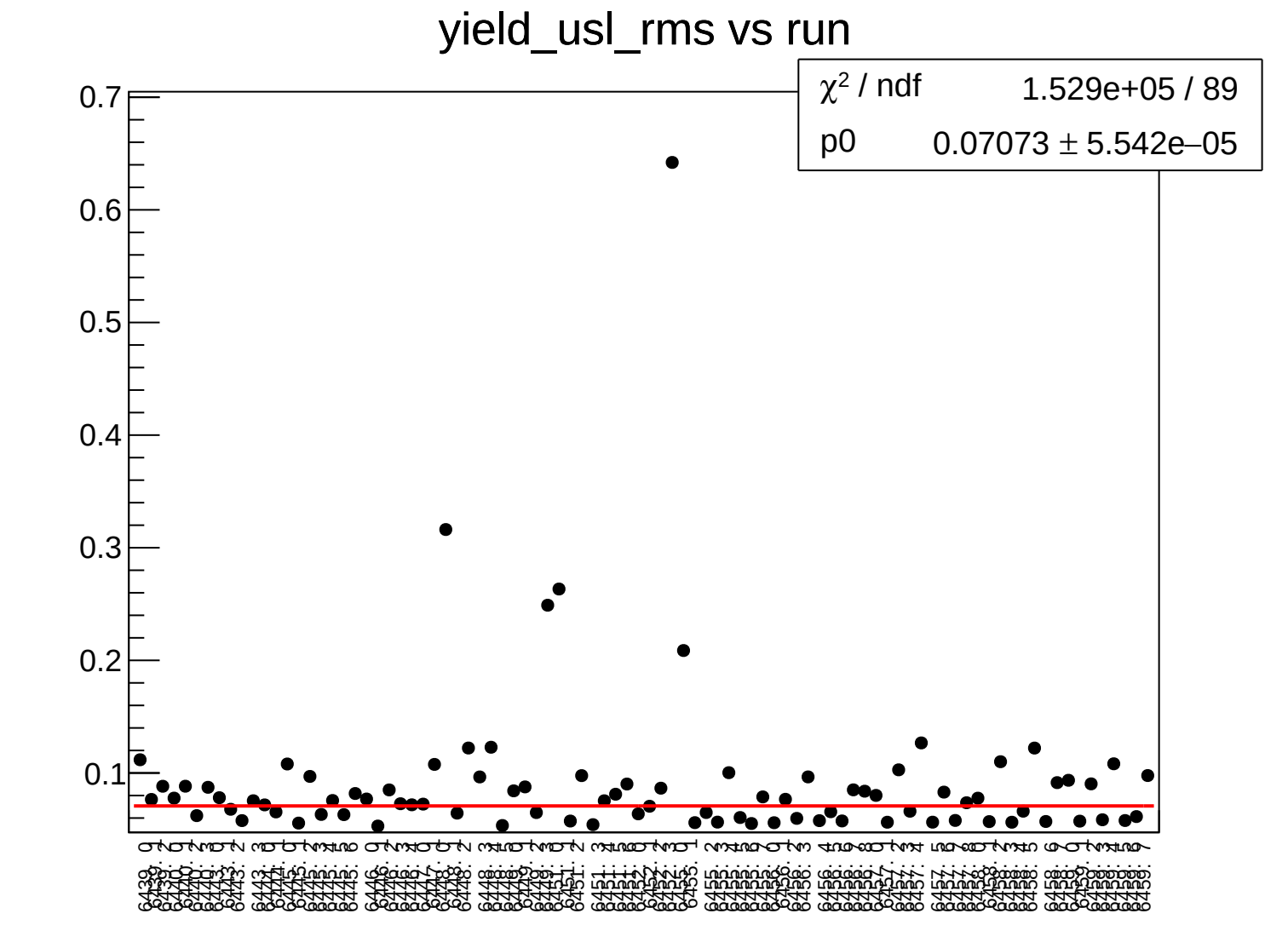

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.74 / 89
p0 −8.966e−17 ± 6.693e−15
pull
Entries 90
Mean 47.72
Std Dev 0

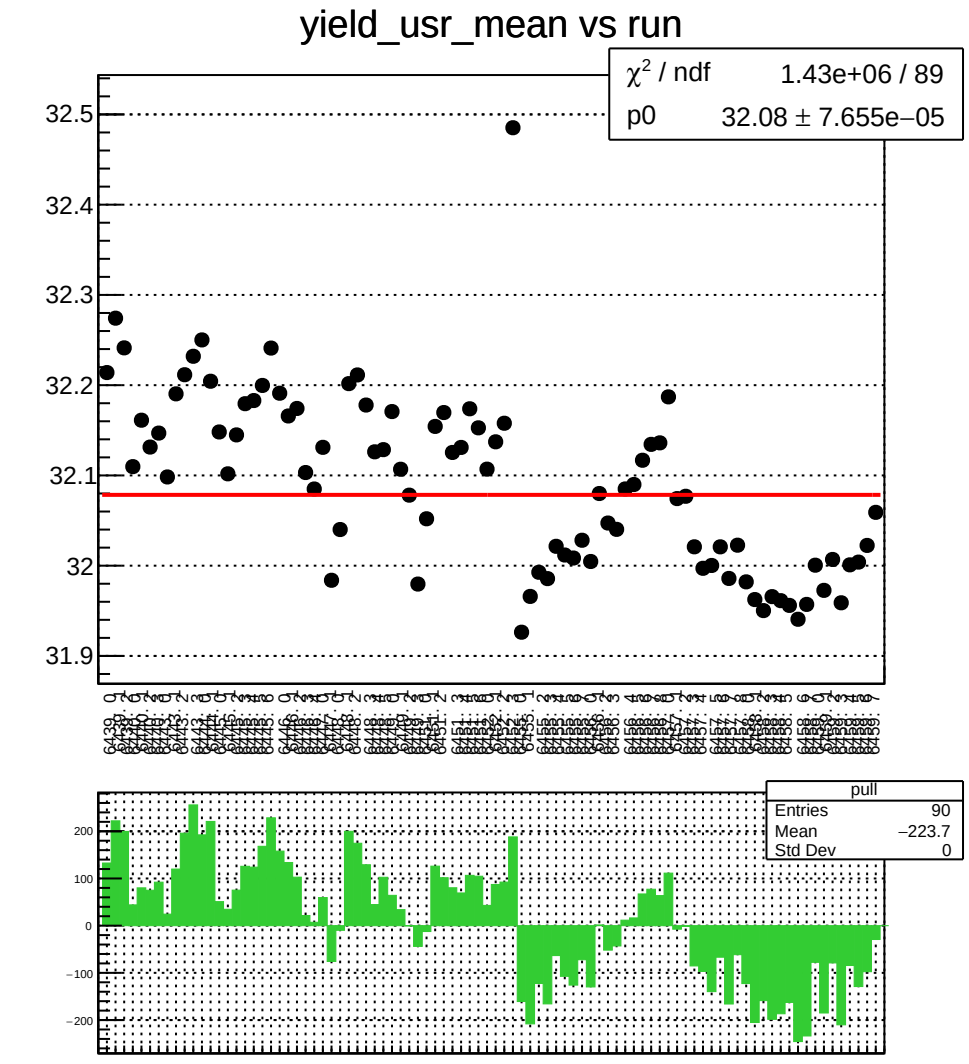

pull1D
Entries 90
Mean −0.01939
Std Dev 0.9758

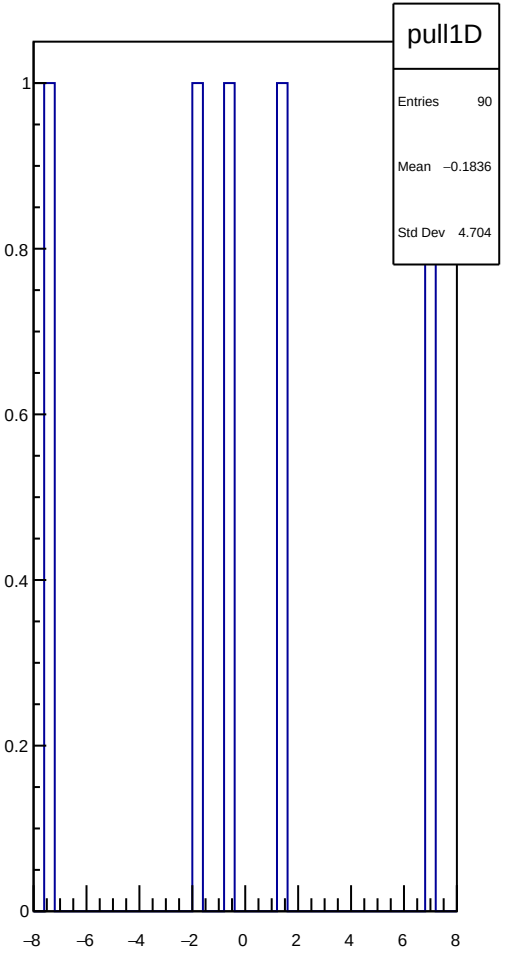

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.034e+06 / 89
p0 4.094e−12 ± 4.733e−15
90
80
70
60
50
40
30
20
10

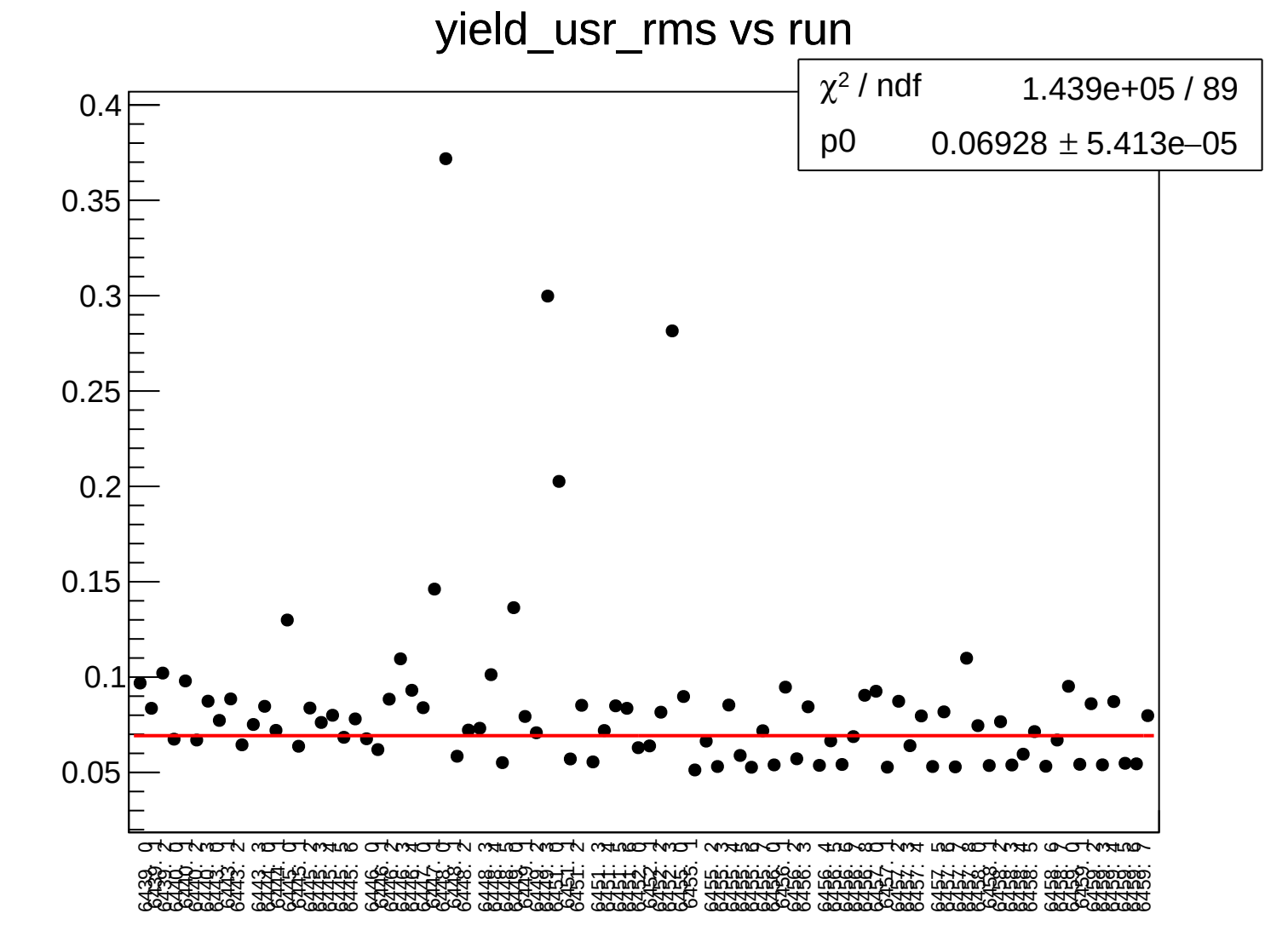

yield_usl_mean vs run
χ² / ndf 5.863e+05 / 89
p0 31.48 ± 7.837e−05
31.6
31.4
31.2
31
30.8
30.6
pull
Entries 90
Mean 148.4
Std Dev 0
150
100
50
0
−50
−100
−150

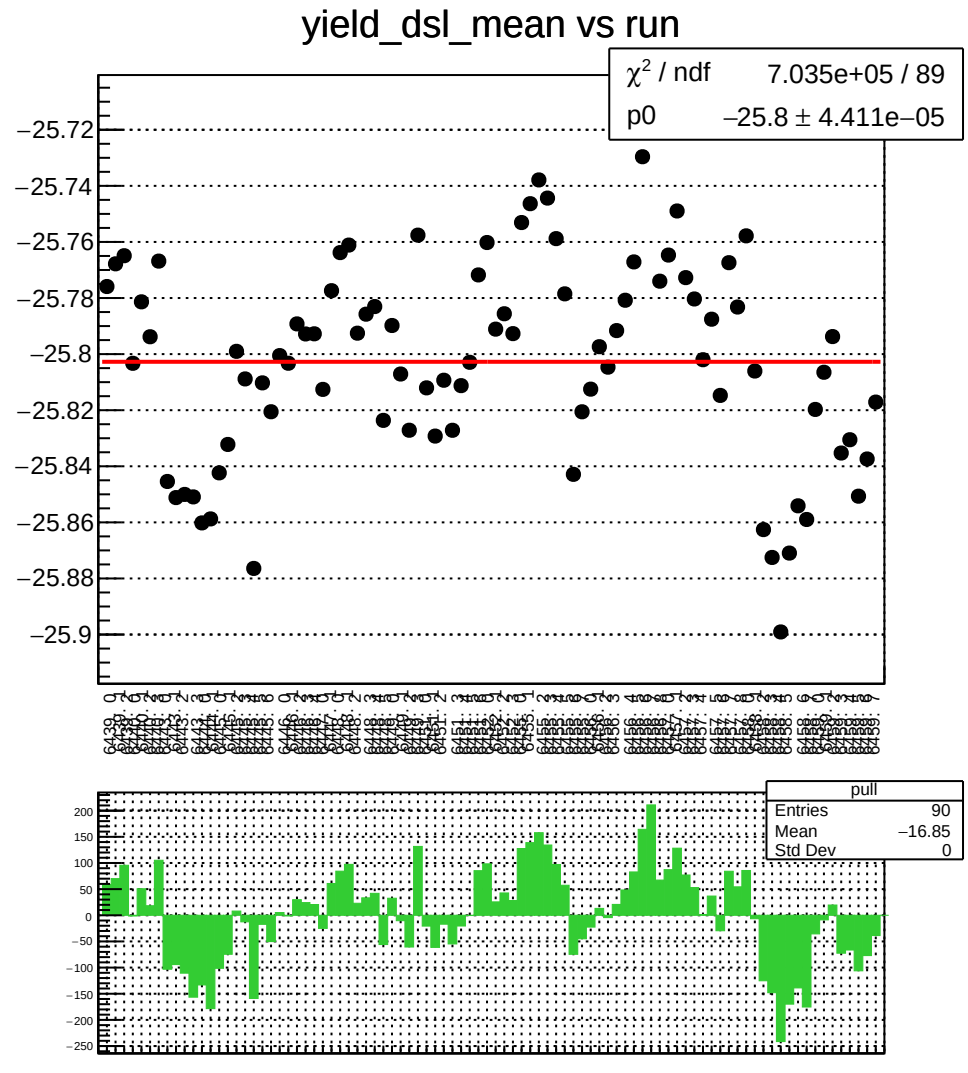

pull1D
Entries 90
Mean −4.346
Std Dev 3.07
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

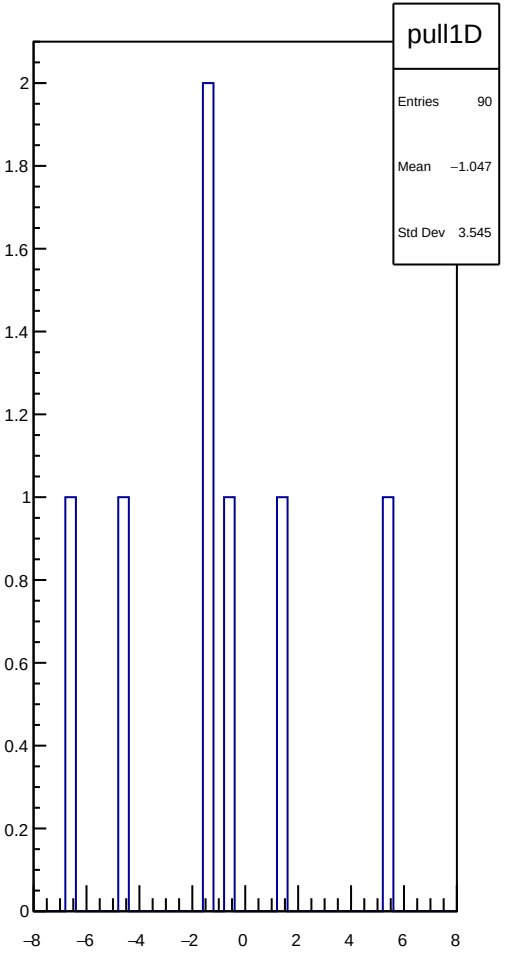

yield_usl_rms vs run
χ² / ndf 1.529e+05 / 89
p0 0.07073 ± 5.542e−05
0.7
0.6
0.5
0.4
0.3
0.2
0.1

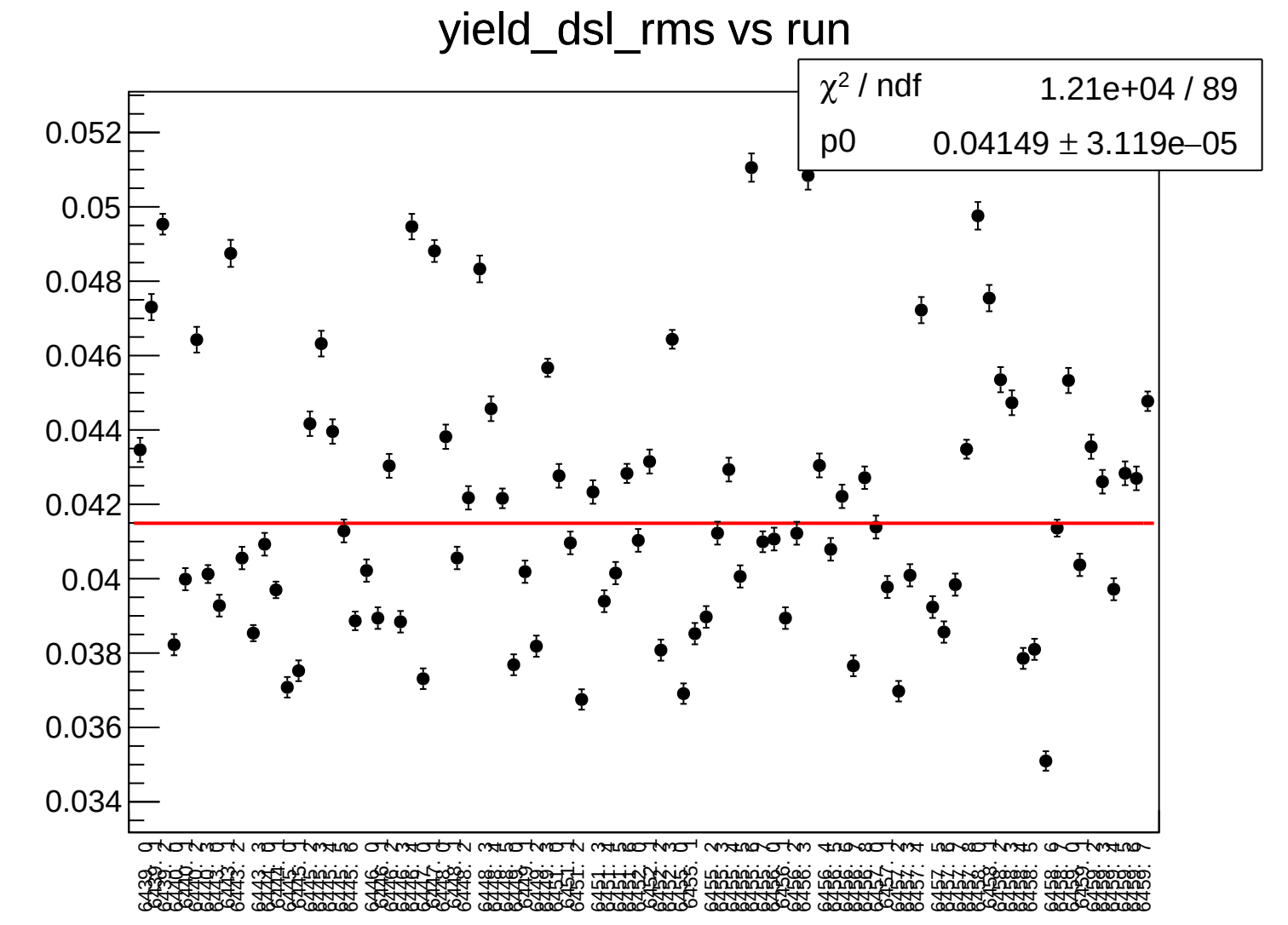

yield_usr_mean vs run
χ² / ndf 1.43e+06 / 89
p0 32.08 ± 7.655e−05
32.5
32.4
32.3
32.2
32.1
32
31.9
pull
Entries 90
Mean −223.7
Std Dev 0
200
100
0
−100
−200

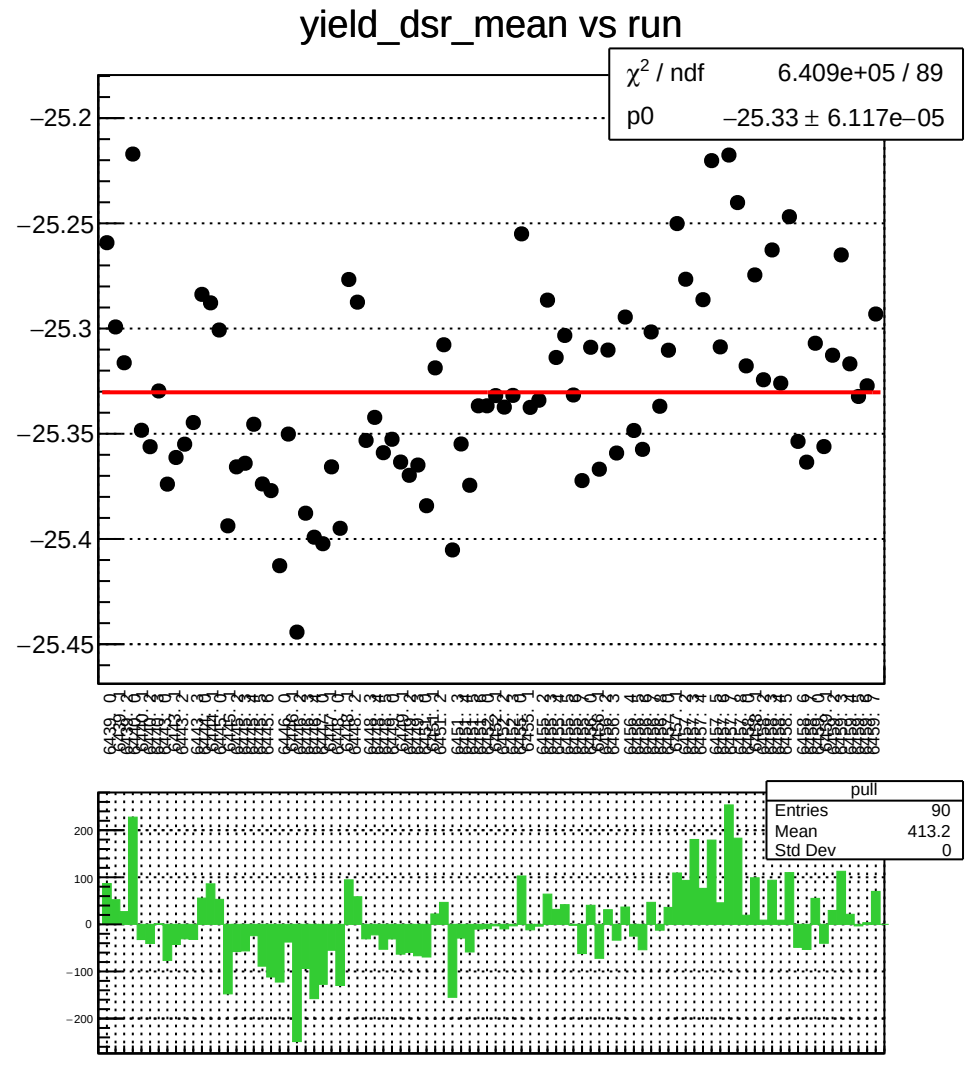

pull1D
Entries 90
Mean −0.1836
Std Dev 4.704
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

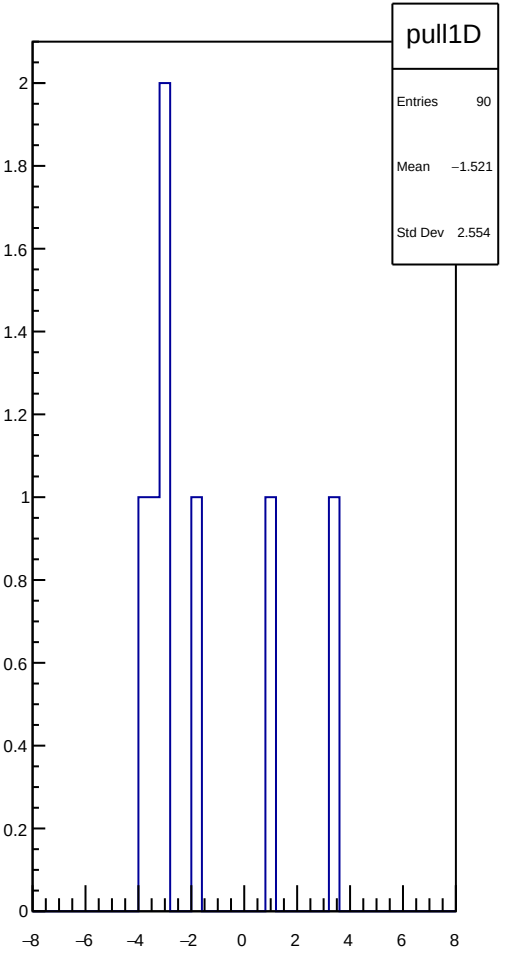

yield_usr_rms vs run
χ² / ndf 1.439e+05 / 89
p0 0.06928 ± 5.413e–05
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

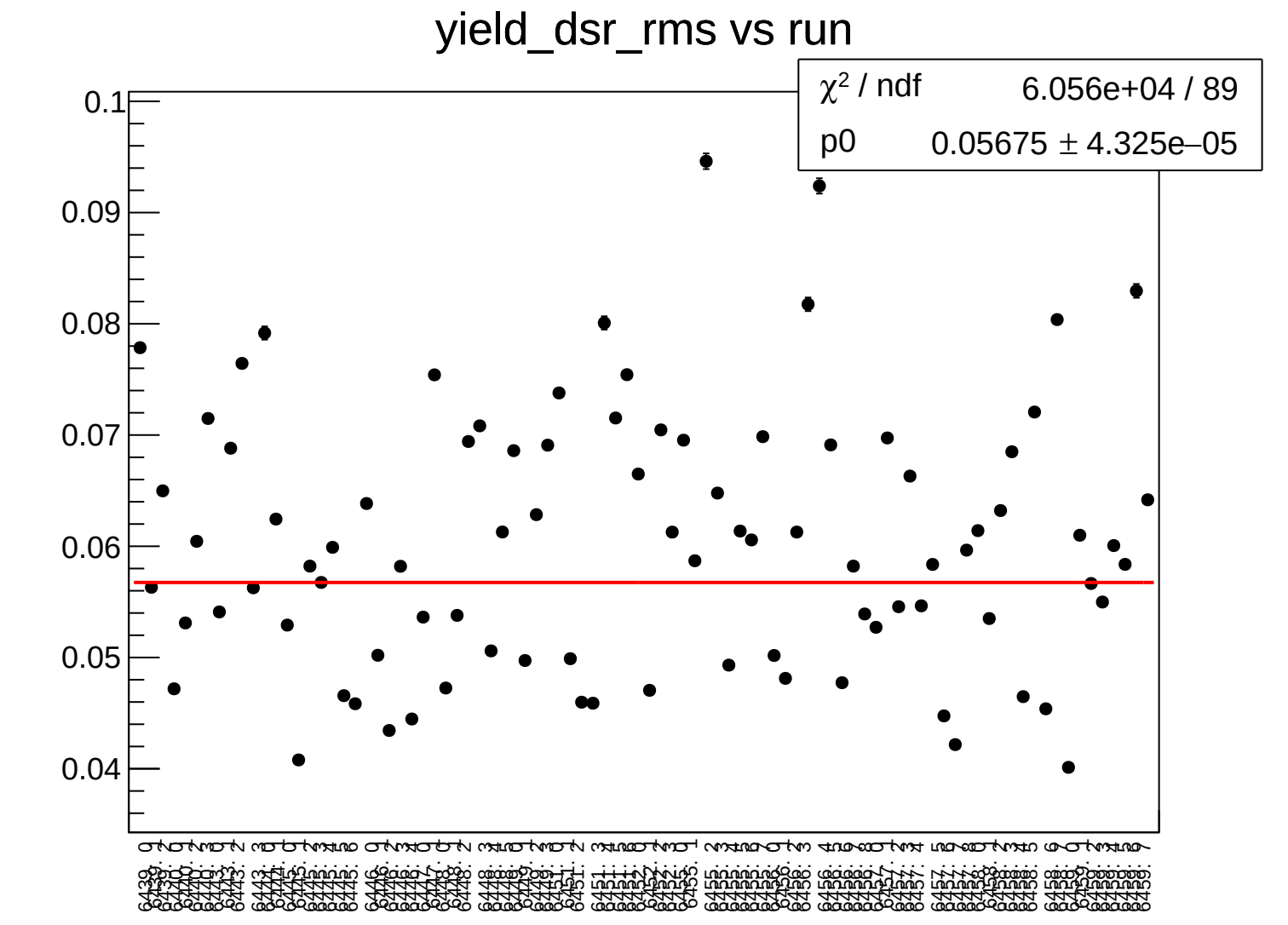

yield_dsl_mean vs run
χ² / ndf 7.035e+05 / 89
p0 −25.8 ± 4.411e−05
−25.72
−25.74
−25.76
−25.78
−25.8
−25.82
−25.84
−25.86
−25.88
−25.9
pull
Entries 90
Mean −16.85
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200
−250

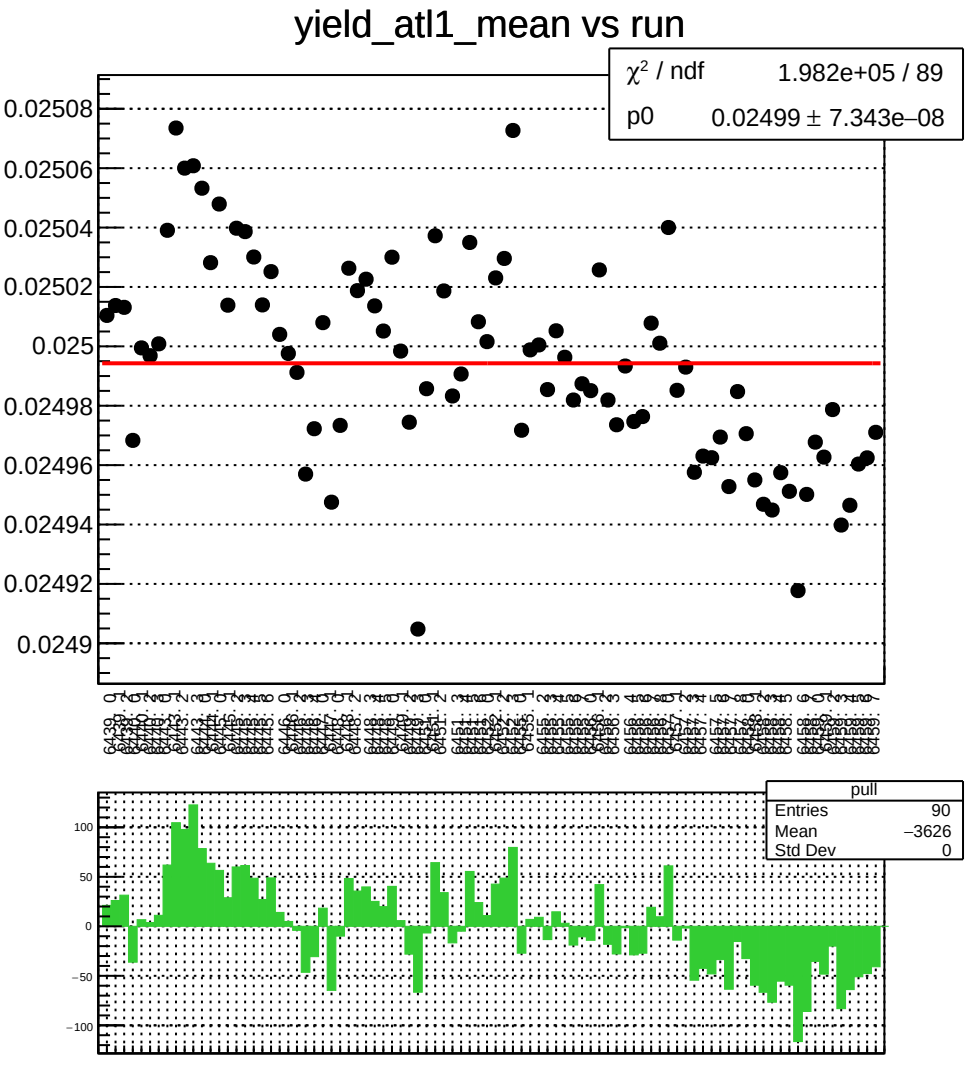

pull1D
Entries 90
Mean −1.047
Std Dev 3.545
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

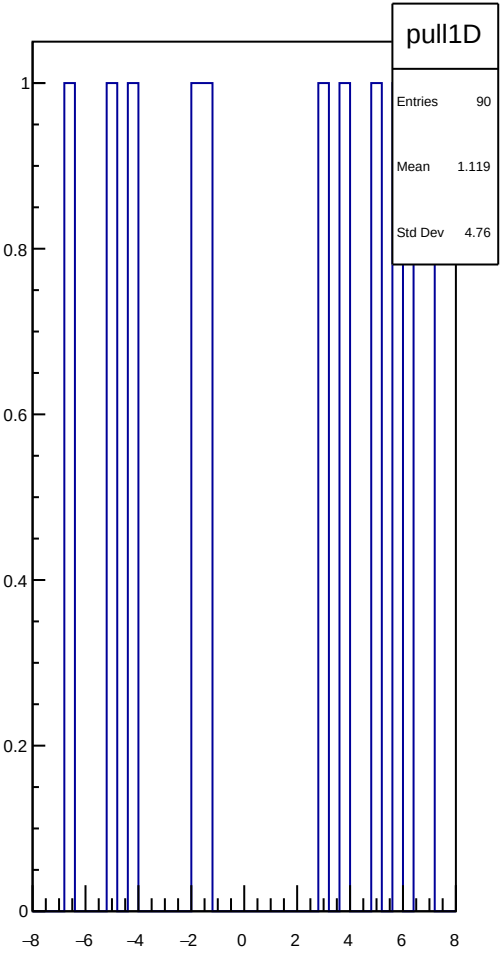

yield_dsl_rms vs run
χ² / ndf 1.21e+04 / 89
p0 0.04149 ± 3.119e−05
0.052
0.05
0.048
0.046
0.044
0.042
0.04
0.038
0.036
0.034

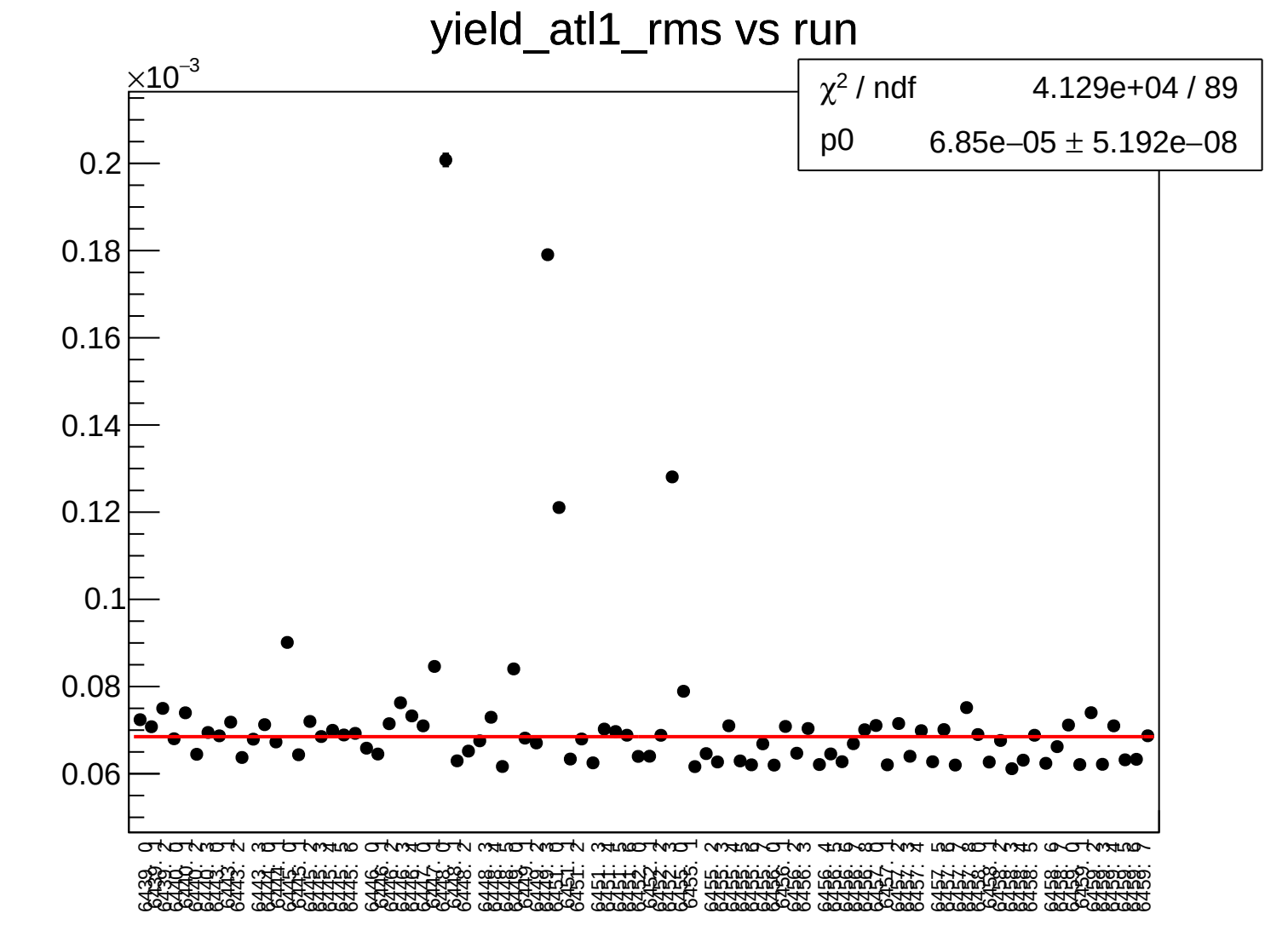

yield_dsr_mean vs run
χ² / ndf 6.409e+05 / 89
p0 −25.33 ± 6.117e−05
−25.2
−25.25
−25.3
−25.35
−25.4
−25.45
pull
Entries 90
Mean 413.2
Std Dev 0
200
100
0
−100
−200

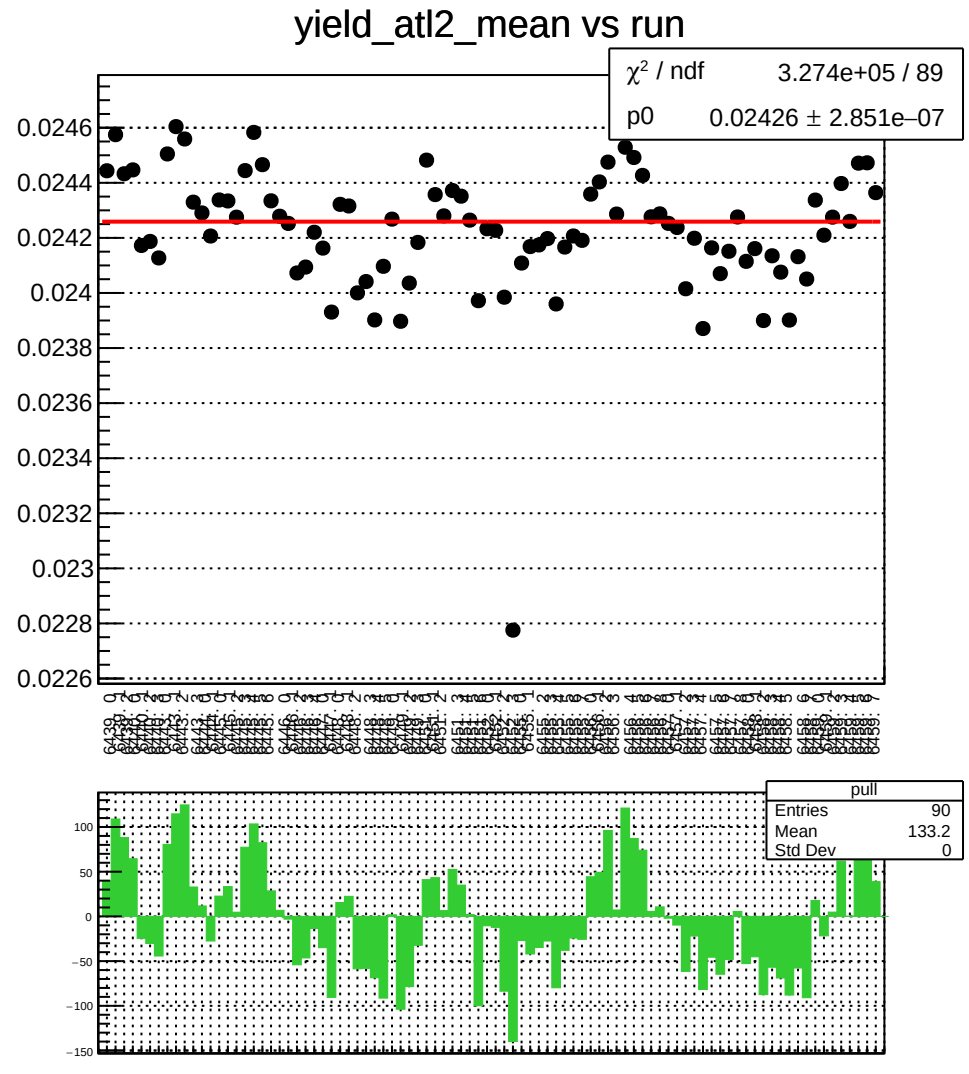

pull1D
Entries 90
Mean −1.521
Std Dev 2.554
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

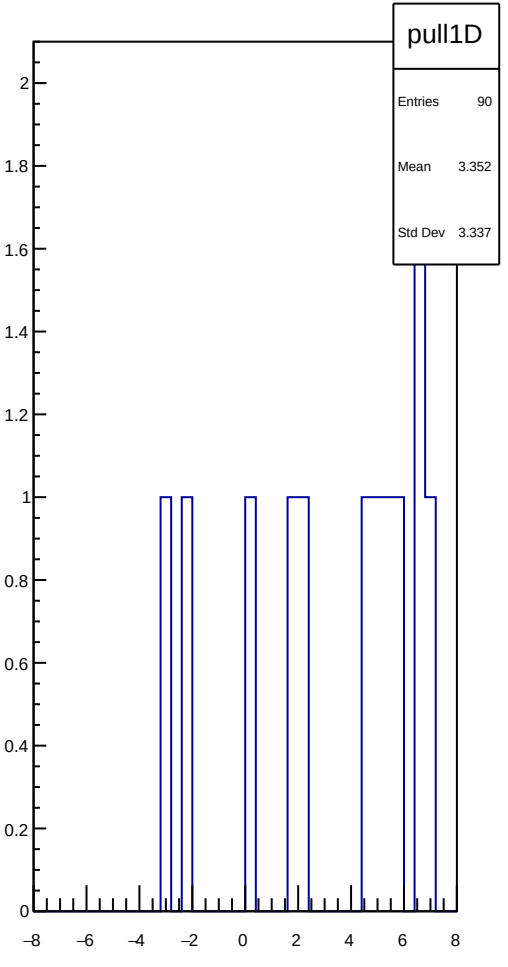

yield_dsr_rms vs run
χ² / ndf 6.056e+04 / 89
p0 0.05675 ± 4.325e−05
0.1
0.09
0.08
0.07
0.06
0.05
0.04

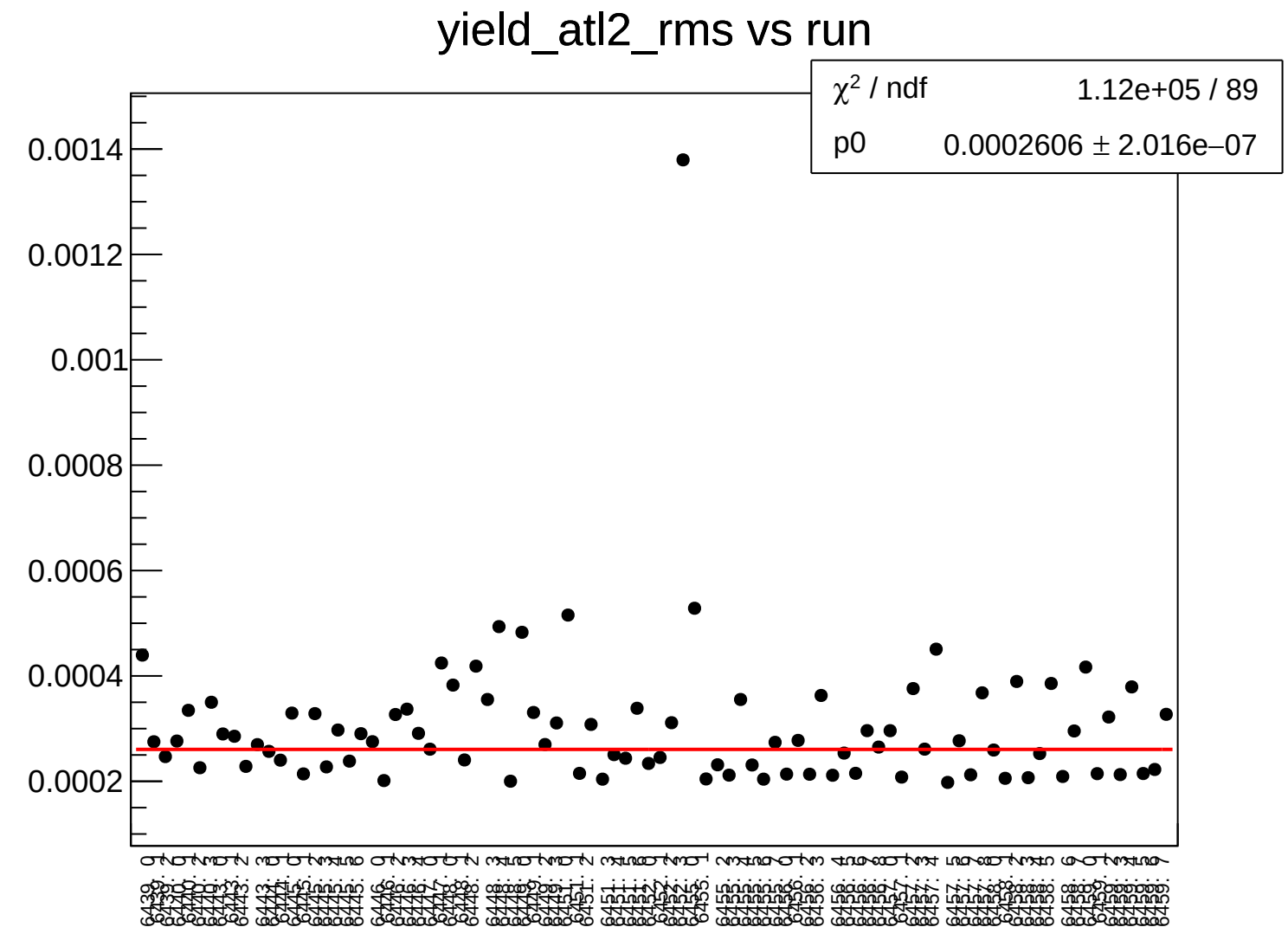

yield_atl1_mean vs run
χ² / ndf 1.982e+05 / 89
p0 0.02499 ± 7.343e−08
0.02508
0.02506
0.02504
0.02502
0.025
0.02498
0.02496
0.02494
0.02492
0.0249
pull
Entries 90
Mean −3626
Std Dev 0
100
50
0
−50
−100

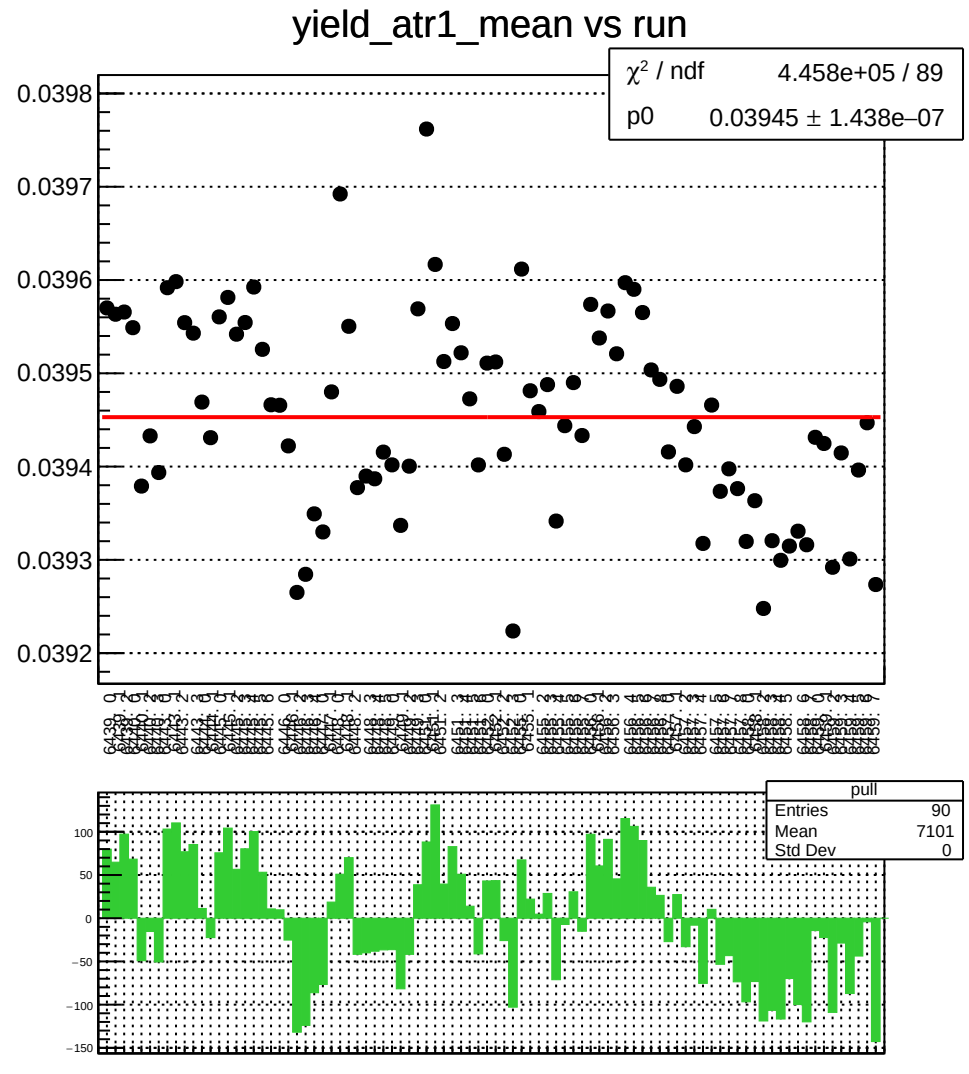

pull1D
Entries 90
Mean 1.119
Std Dev 4.76
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

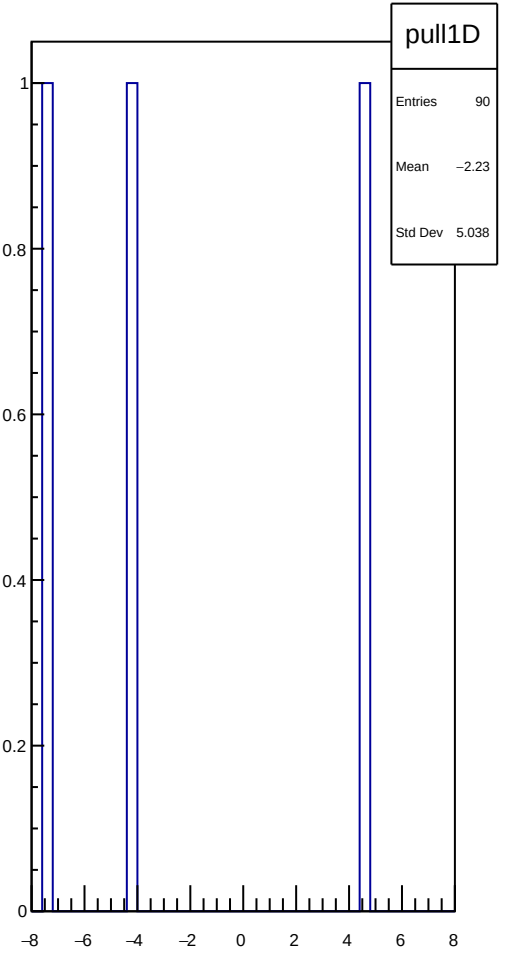

yield_atl1_rms vs run
×10⁻³
χ² / ndf 4.129e+04 / 89
p0 6.85e−05 ± 5.192e−08
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06

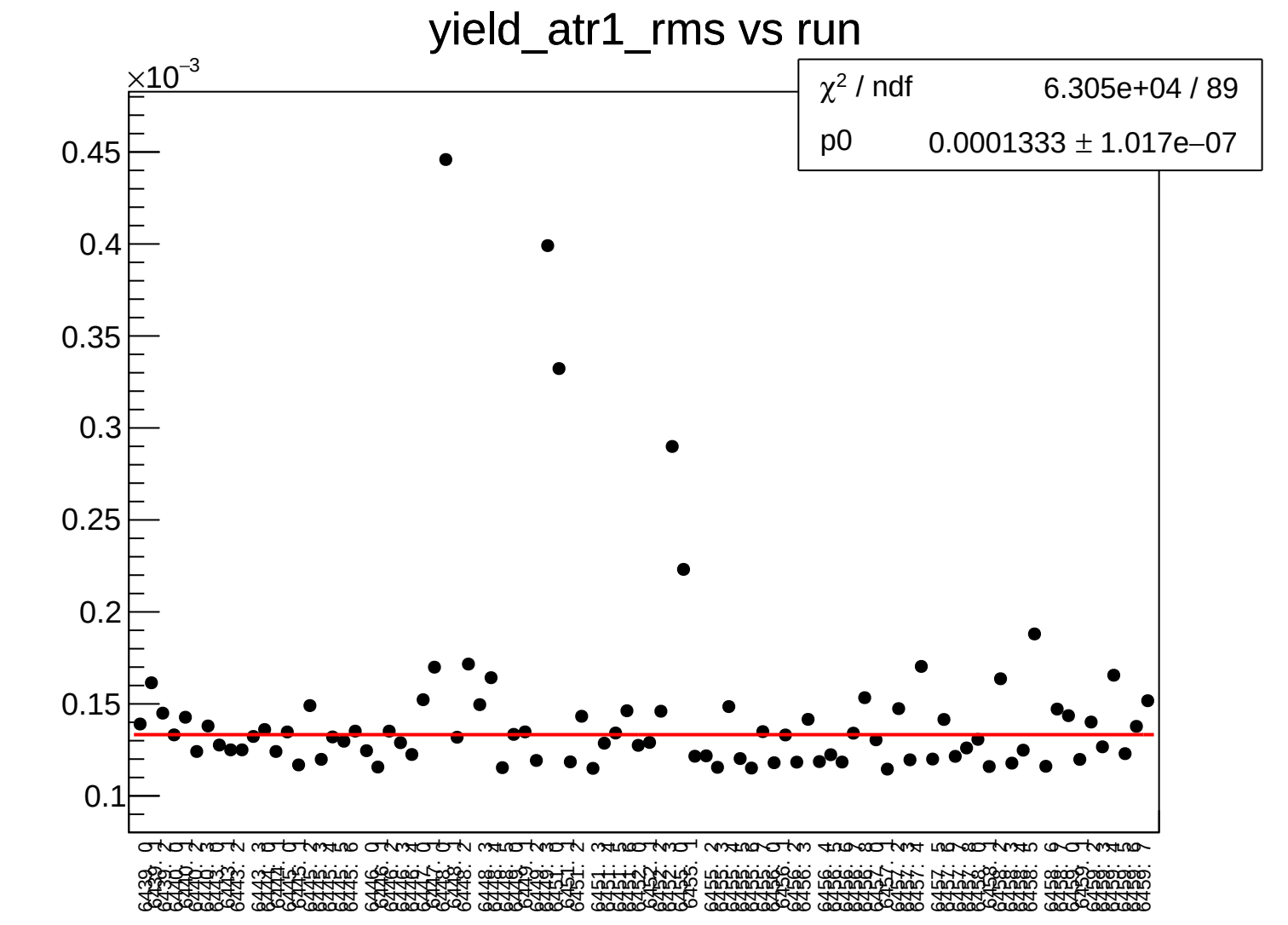

yield_atl2_mean vs run
χ² / ndf 3.274e+05 / 89
p0 0.02426 ± 2.851e−07
0.0246
0.0244
0.0242
0.024
0.0238
0.0236
0.0234
0.0232
0.023
0.0228
0.0226
pull
Entries 90
Mean 133.2
Std Dev 0
100
50
0
−50
−100
−150

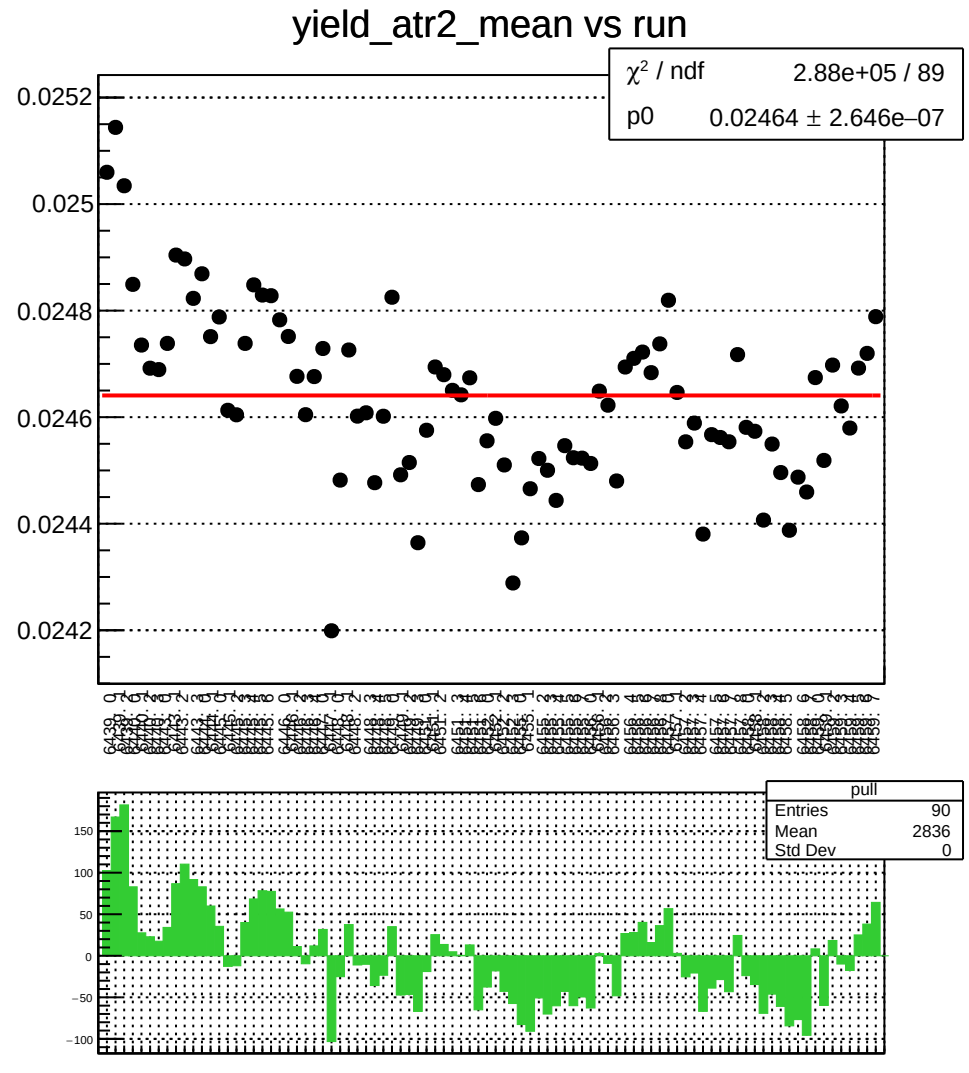

pull1D
Entries 90
Mean 3.352
Std Dev 3.337
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

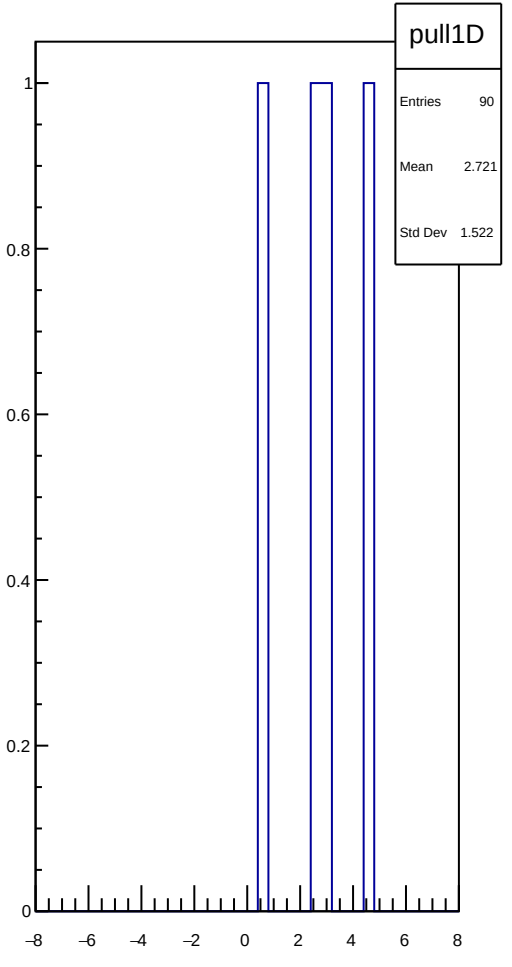

yield_atl2_rms vs run
χ² / ndf 1.12e+05 / 89
p0 0.0002606 ± 2.016e−07
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002

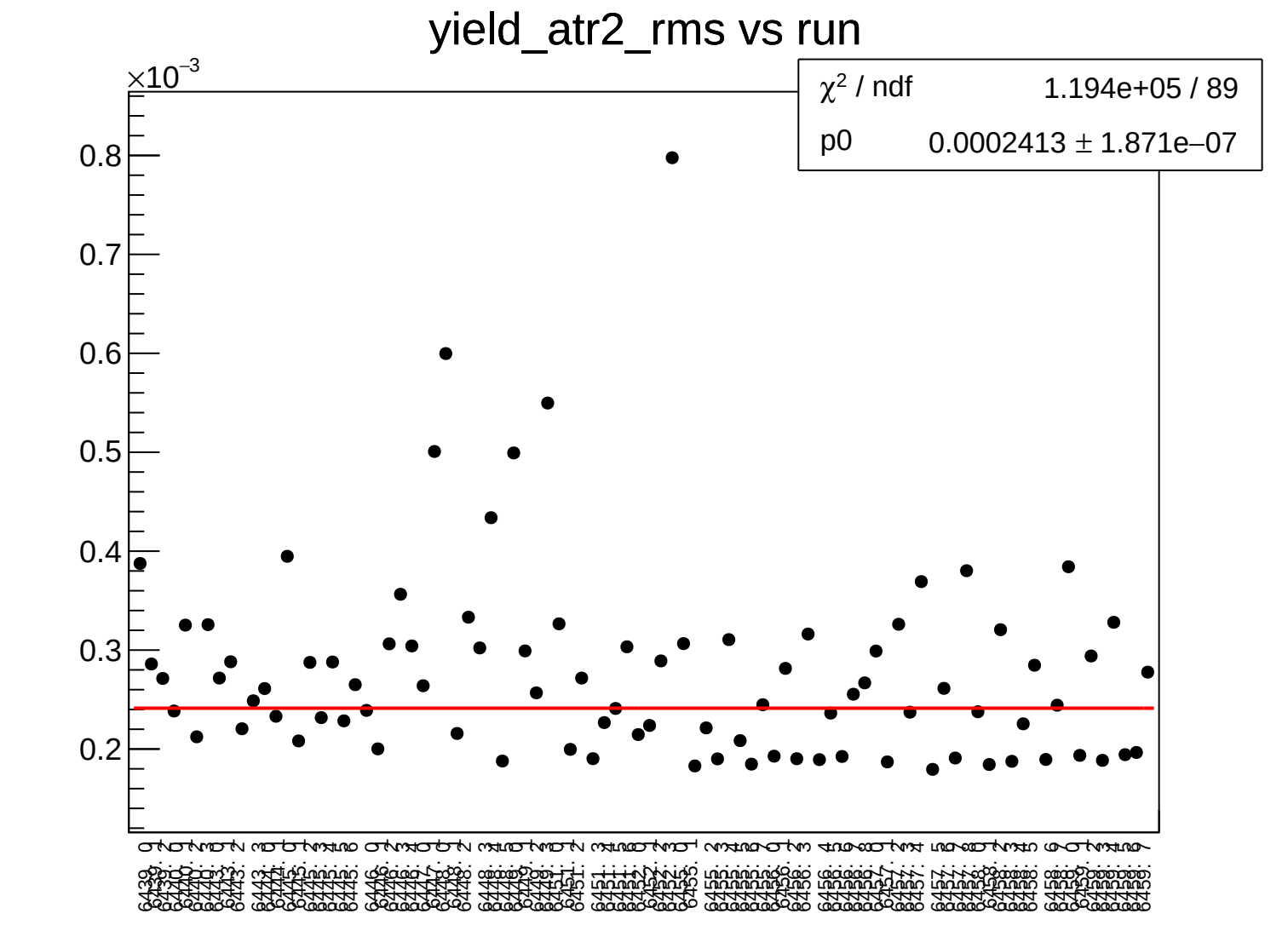

yield_atr1_mean vs run
χ² / ndf 4.458e+05 / 89
p0 0.03945 ± 1.438e−07
0.0398
0.0397
0.0396
0.0395
0.0394
0.0393
0.0392
pull
Entries 90
Mean 7101
Std Dev 0
100
50
0
−50
−100
−150

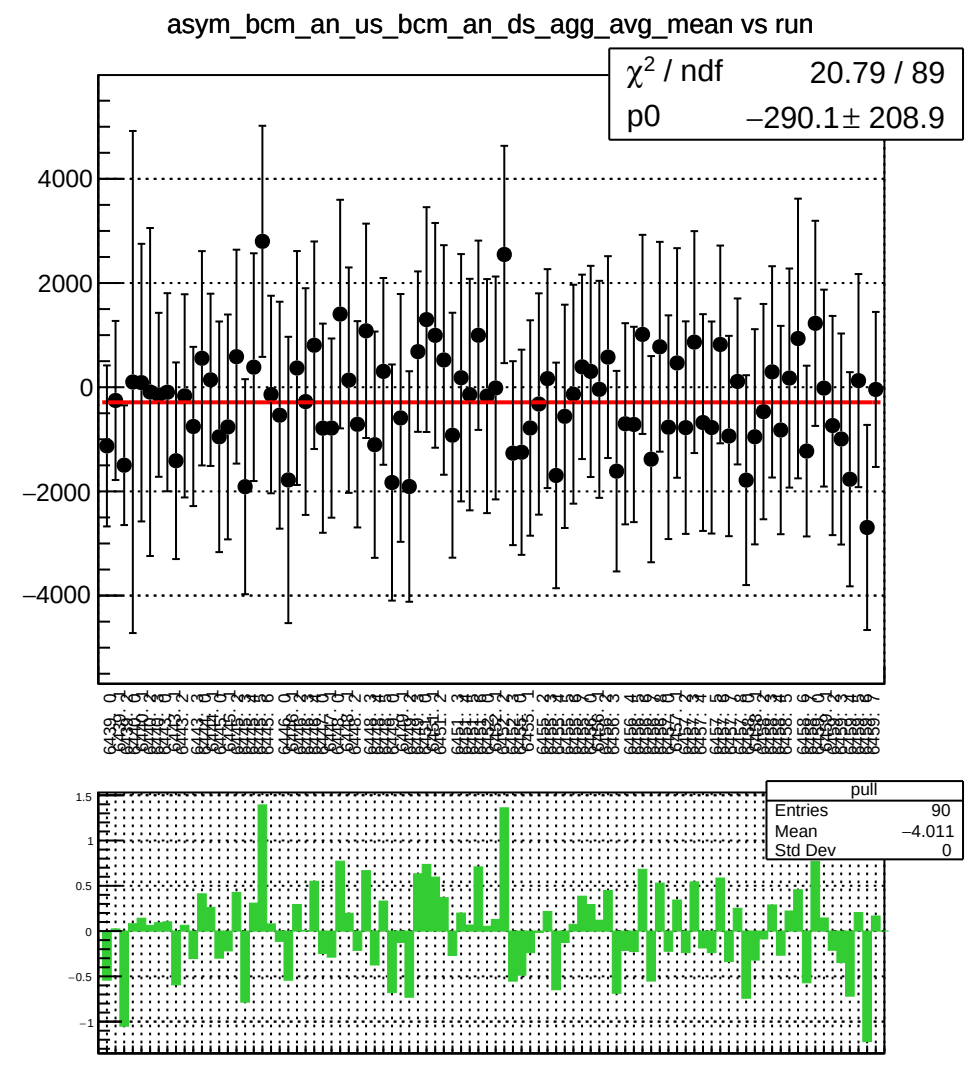

pull1D
Entries 90
Mean −2.23
Std Dev 5.038
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

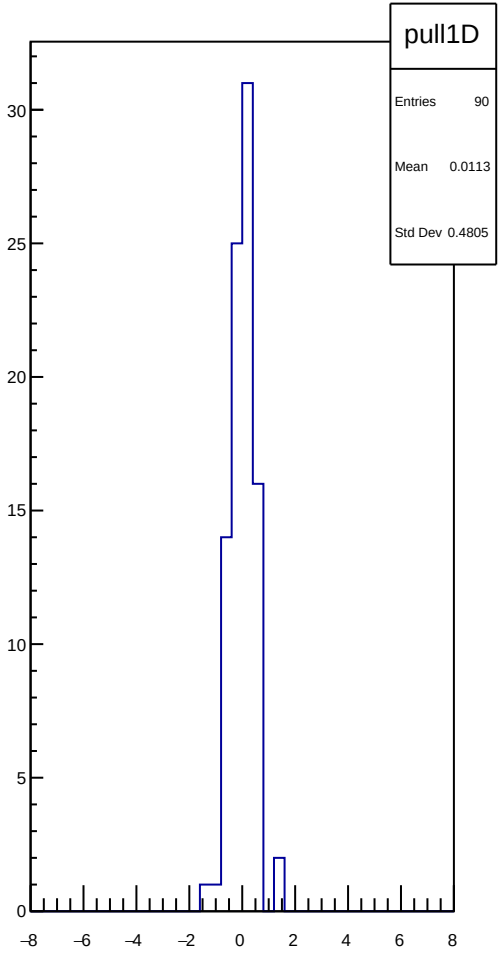

yield_atr1_rms vs run
×10⁻³
χ² / ndf 6.305e+04 / 89
p0 0.0001333 ± 1.017e−07
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1

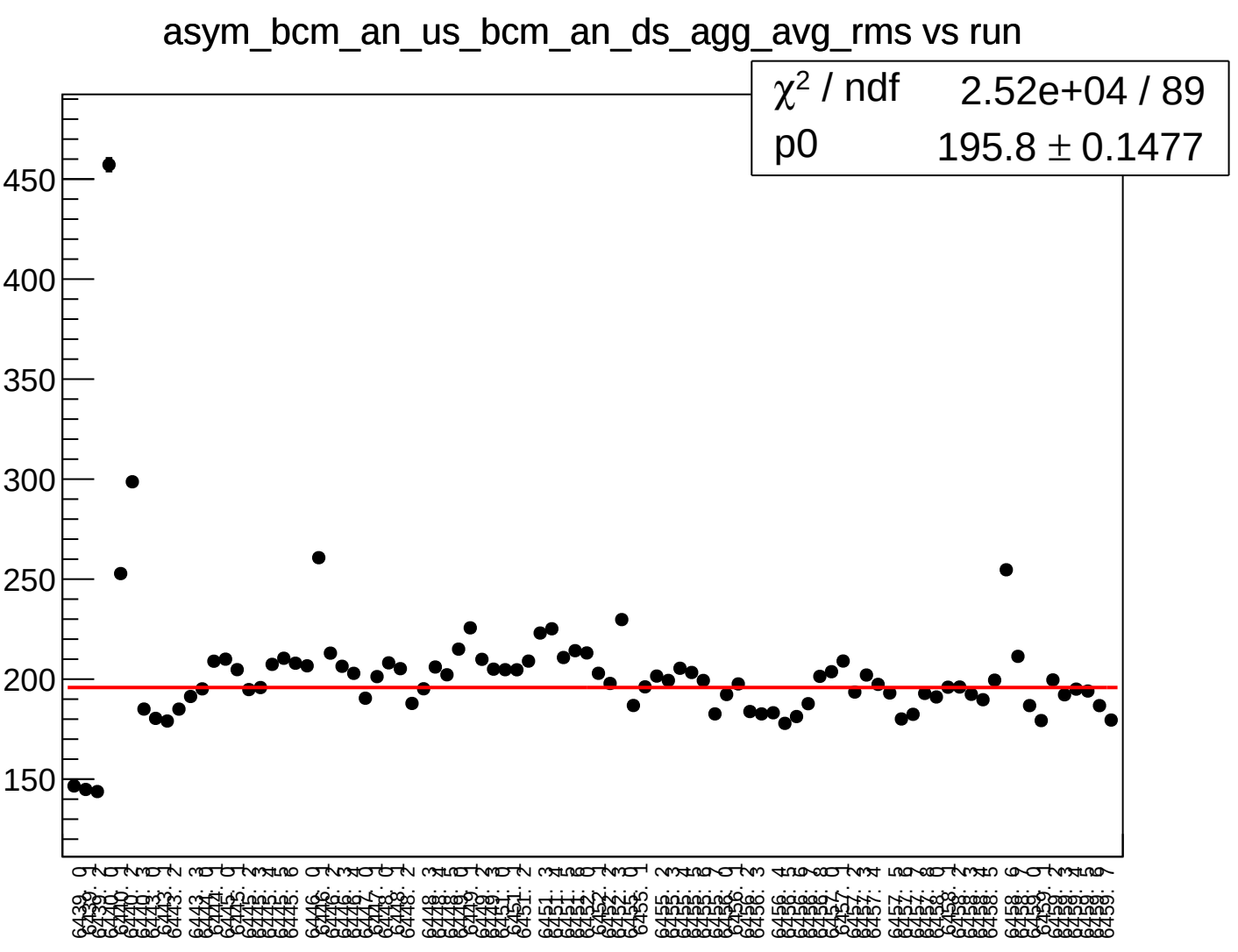

yield_atr2_mean vs run
χ² / ndf 2.88e+05 / 89
p0 0.02464 ± 2.646e−07
0.0252
0.025
0.0248
0.0246
0.0244
0.0242
pull
Entries 90
Mean 2836
Std Dev 0
150
100
50
0
−50
−100

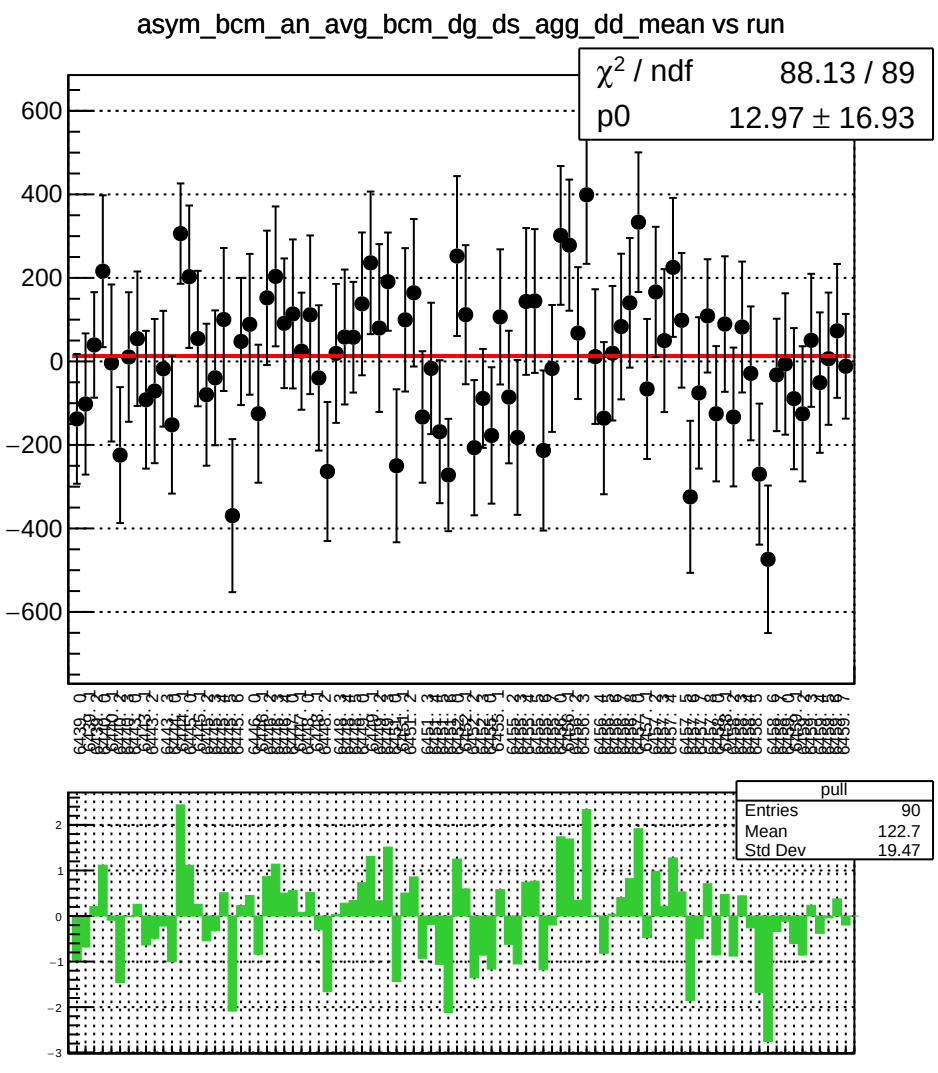

pull1D
Entries 90
Mean 2.721
Std Dev 1.522
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

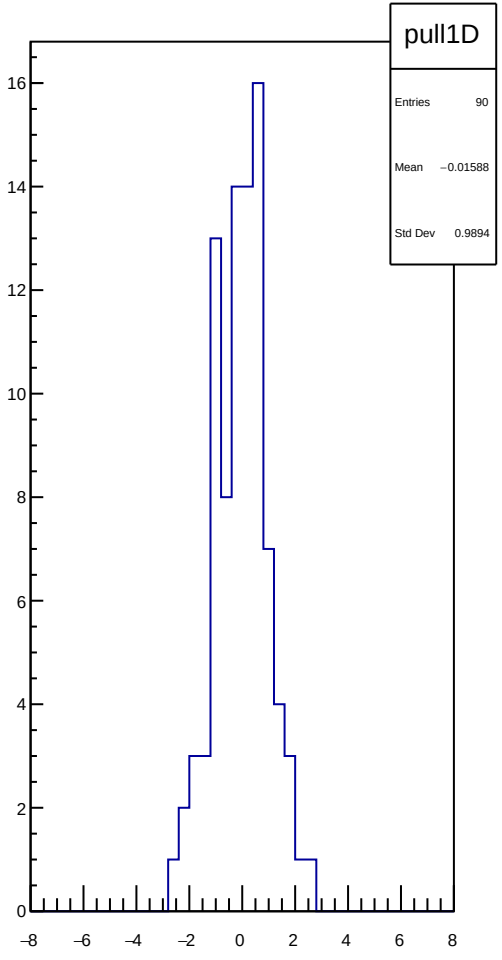

yield_atr2_rms vs run
×10⁻³
χ² / ndf 1.194e+05 / 89
p0 0.0002413 ± 1.871e−07
0.8
0.7
0.6
0.5
0.4
0.3
0.2

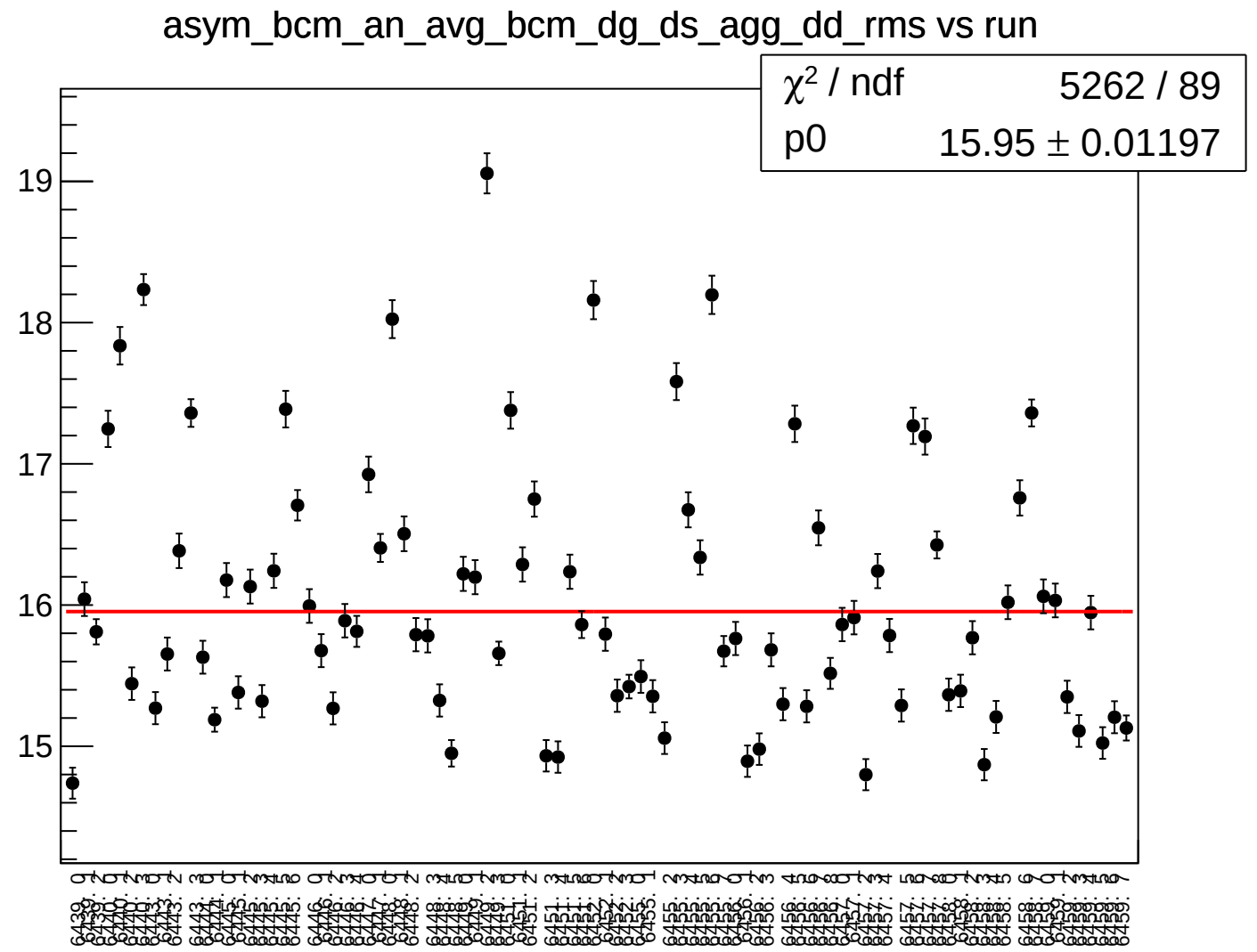

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 20.79 / 89
p0 −290.1± 208.9
4000
2000
0
−2000
−4000
pull
Entries 90
Mean −4.011
Std Dev 0
1.5
1
0.5
0
−0.5
−1

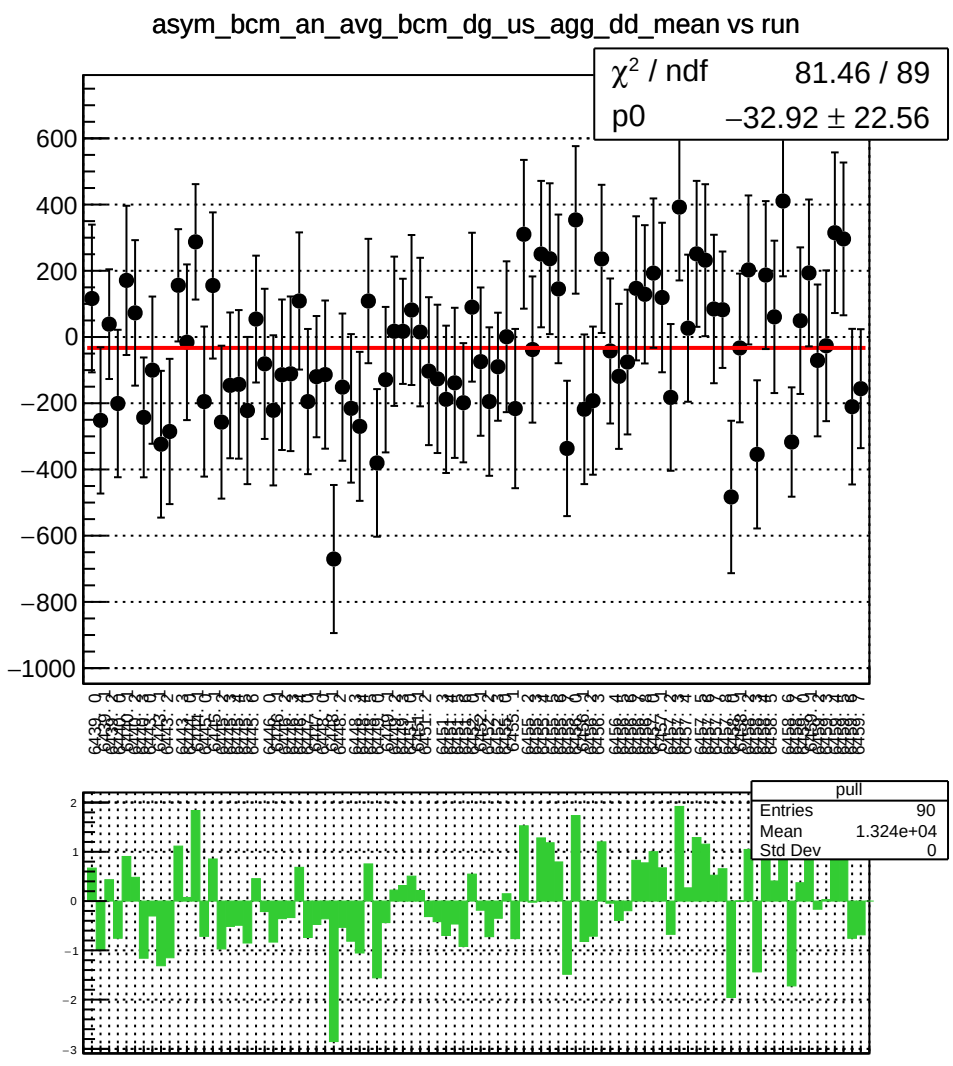

pull1D
Entries 90
Mean 0.0113
Std Dev 0.4805
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

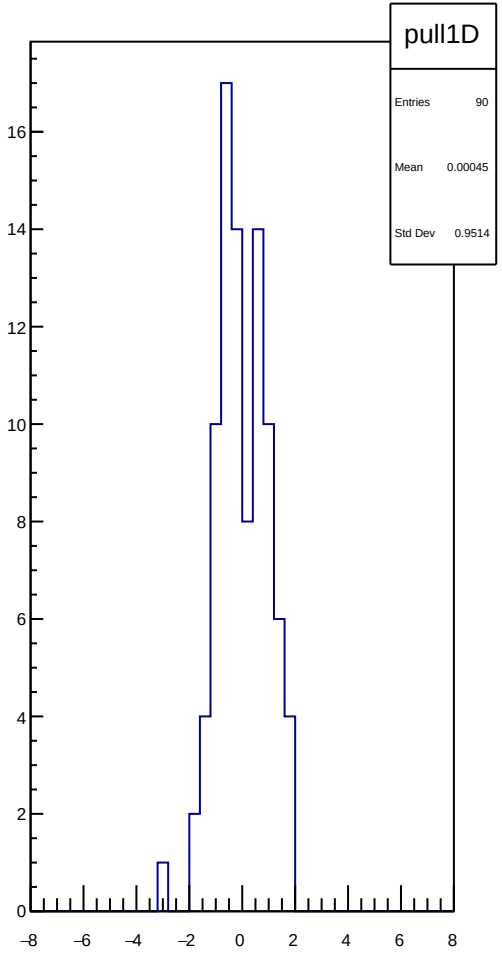

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2.52e+04 / 89
p0 195.8 ± 0.1477
450
400
350
300
250
200
150

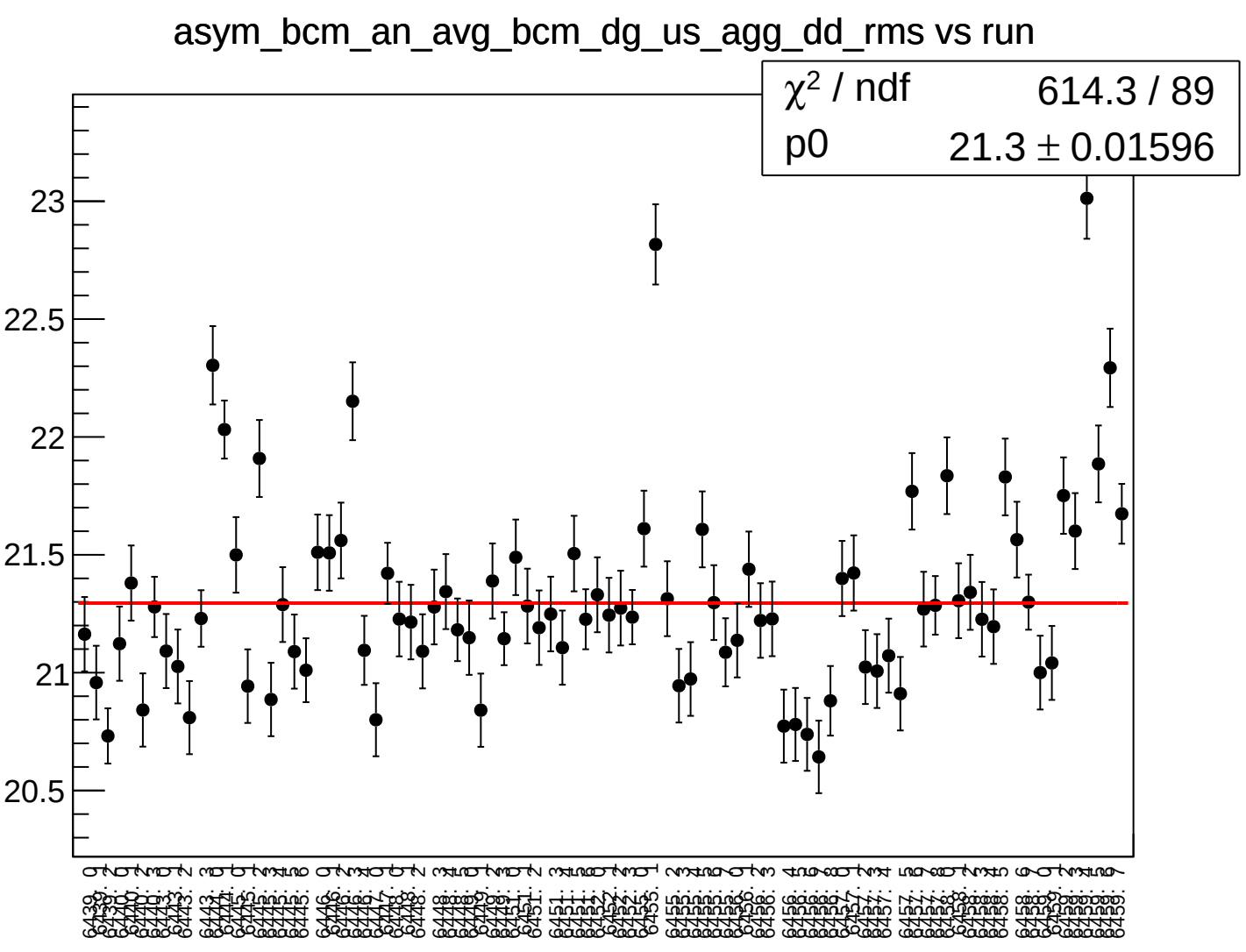

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 88.13 / 89
p0 12.97 ± 16.93
pull
Entries 90
Mean 122.7
Std Dev 19.47

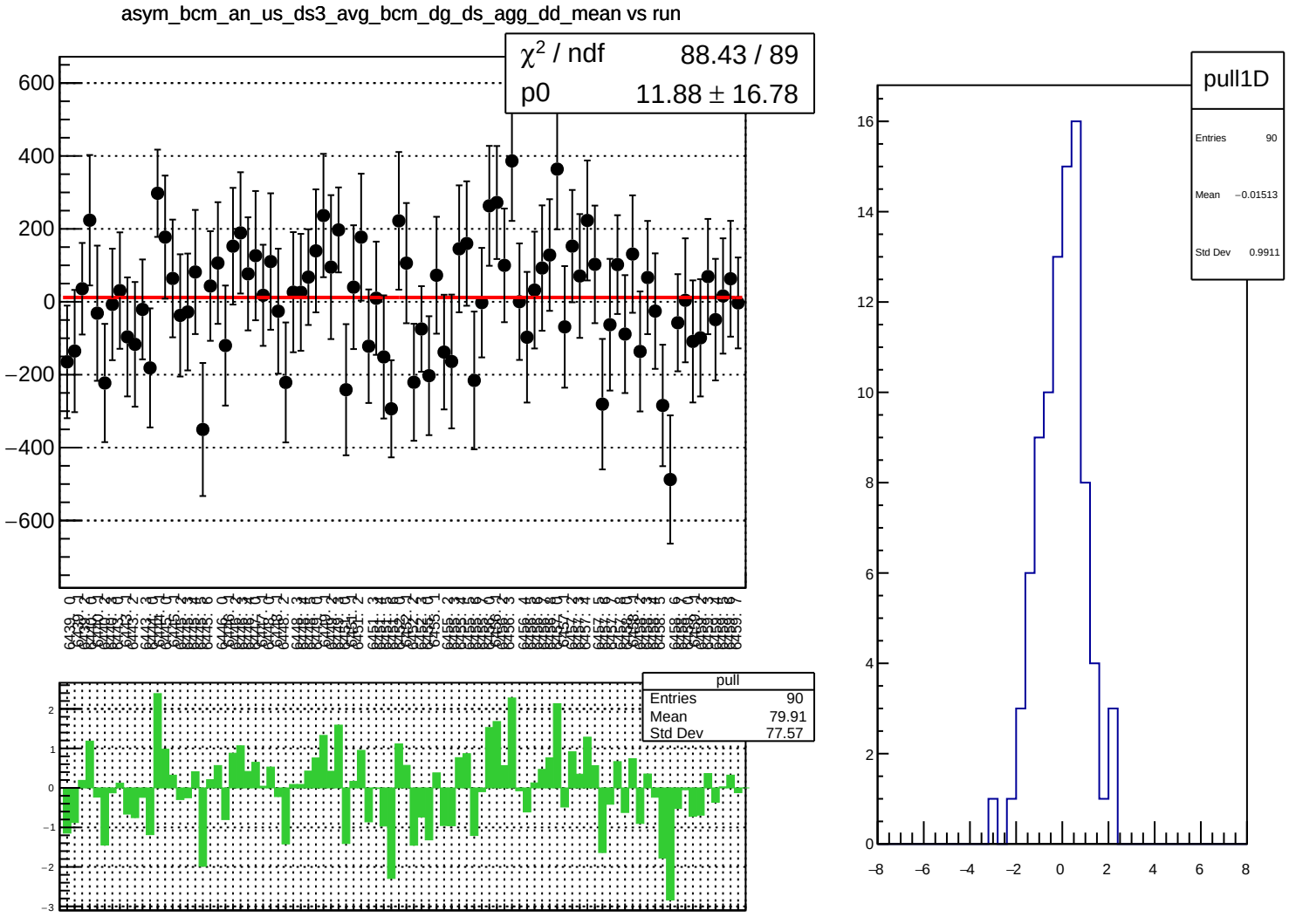

pull1D
Entries 90
Mean −0.01588
Std Dev 0.9894

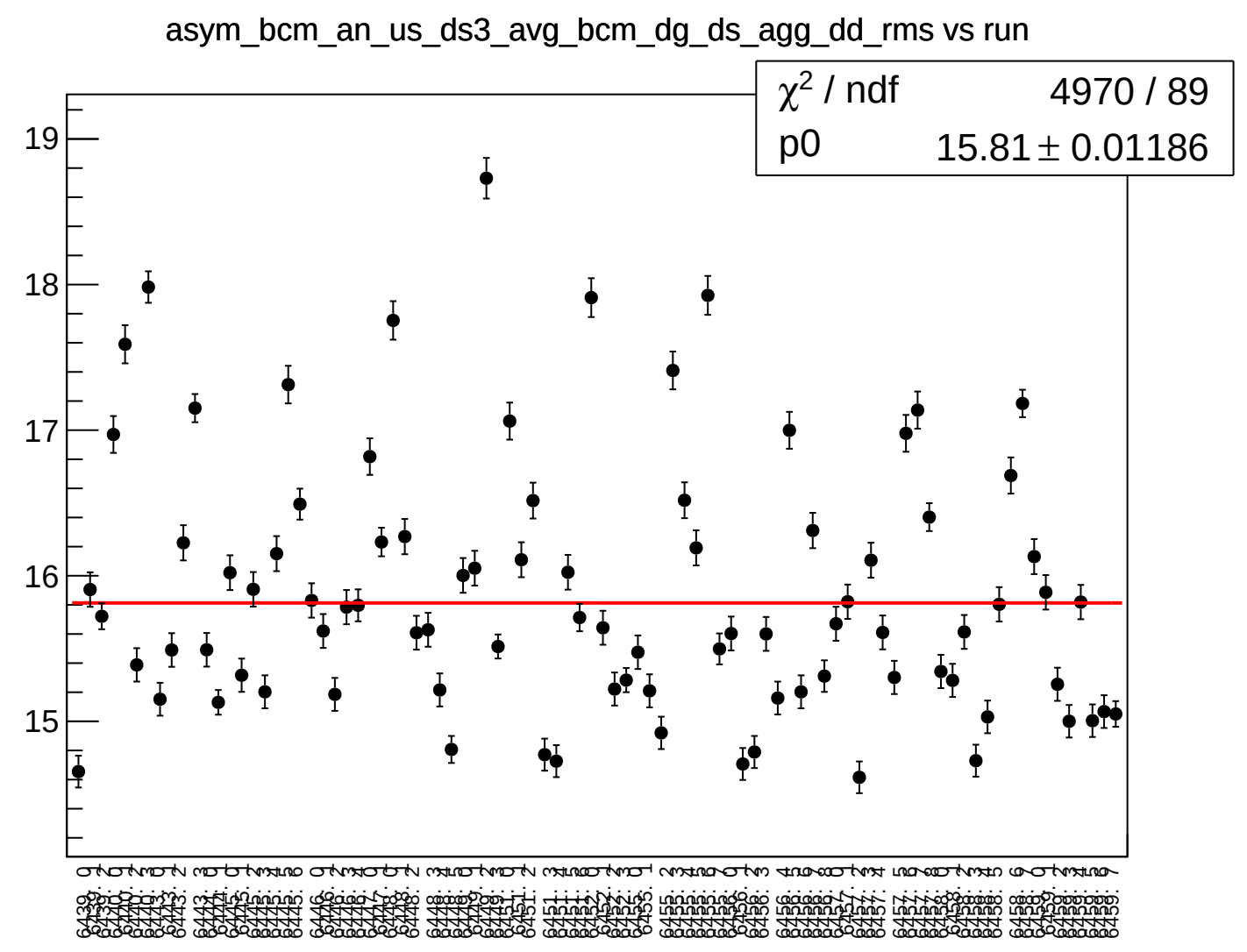

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 5262 / 89
p0 15.95 ± 0.01197
19
18
17
16
15

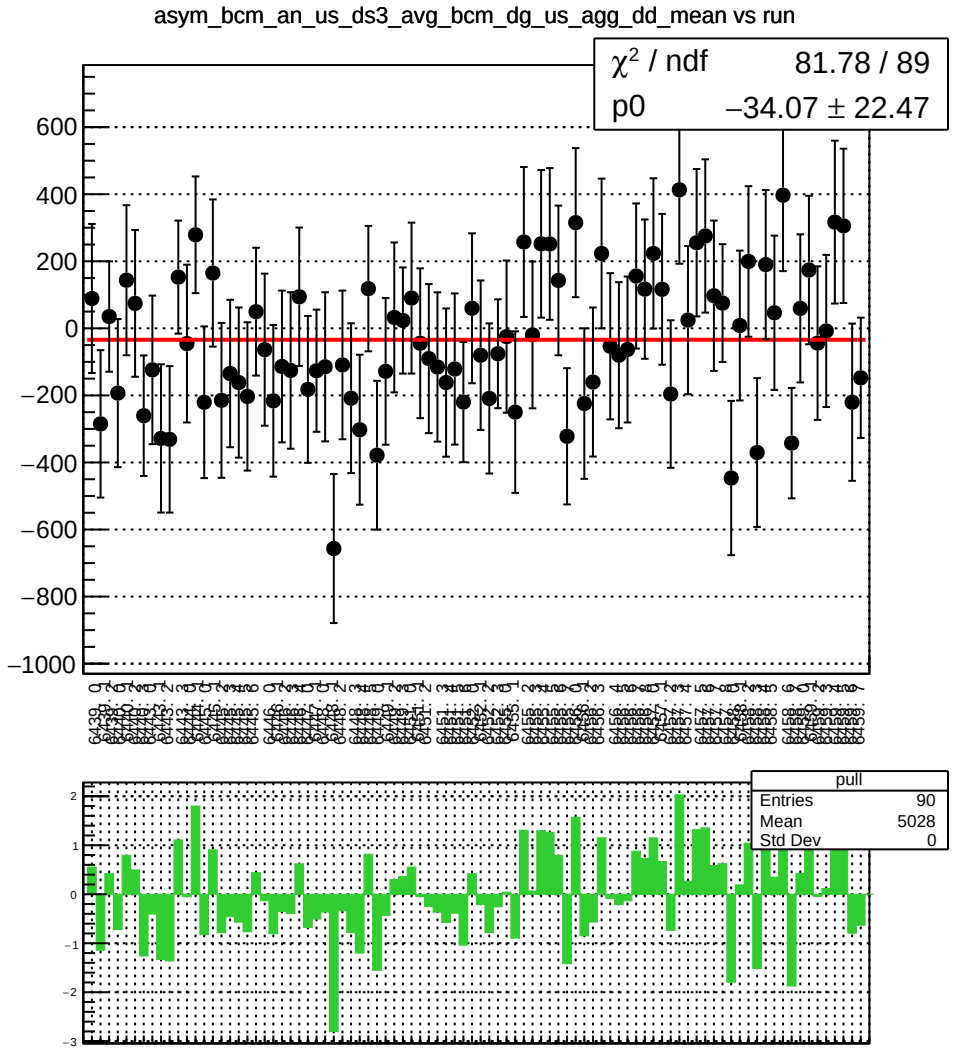

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 81.46 / 89
p0 −32.92 ± 22.56
pull
Entries 90
Mean 1.324e+04
Std Dev 0

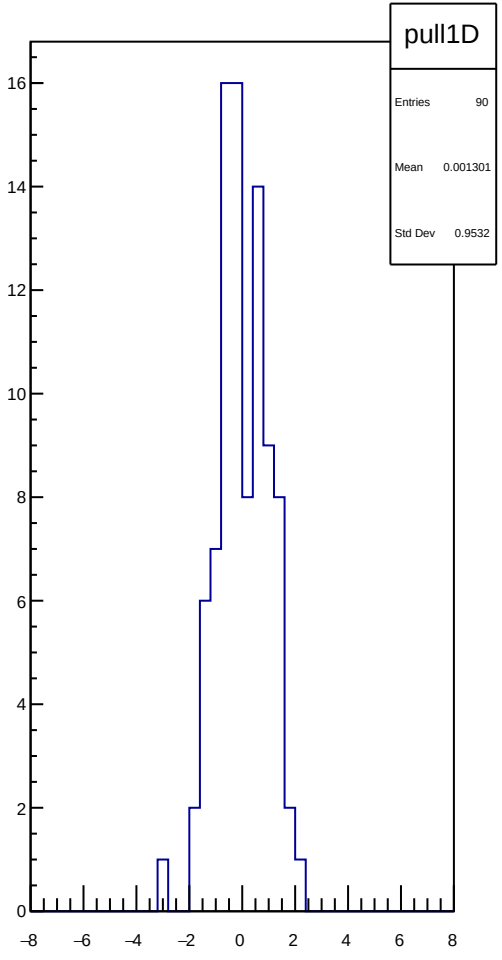

pull1D
Entries 90
Mean 0.00045
Std Dev 0.9514

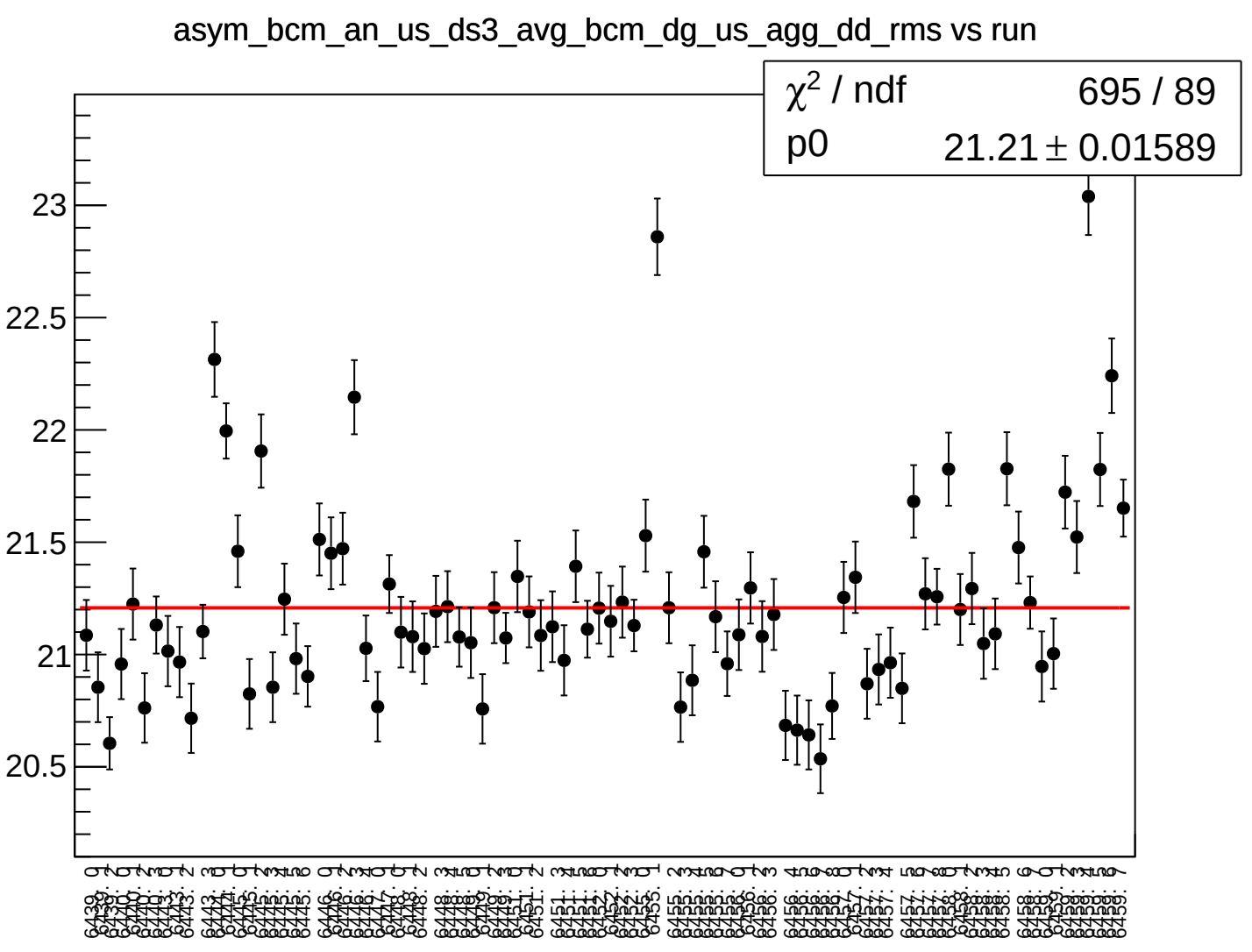

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 614.3 / 89
p0 21.3 ± 0.01596
23
22.5
22
21.5
21
20.5

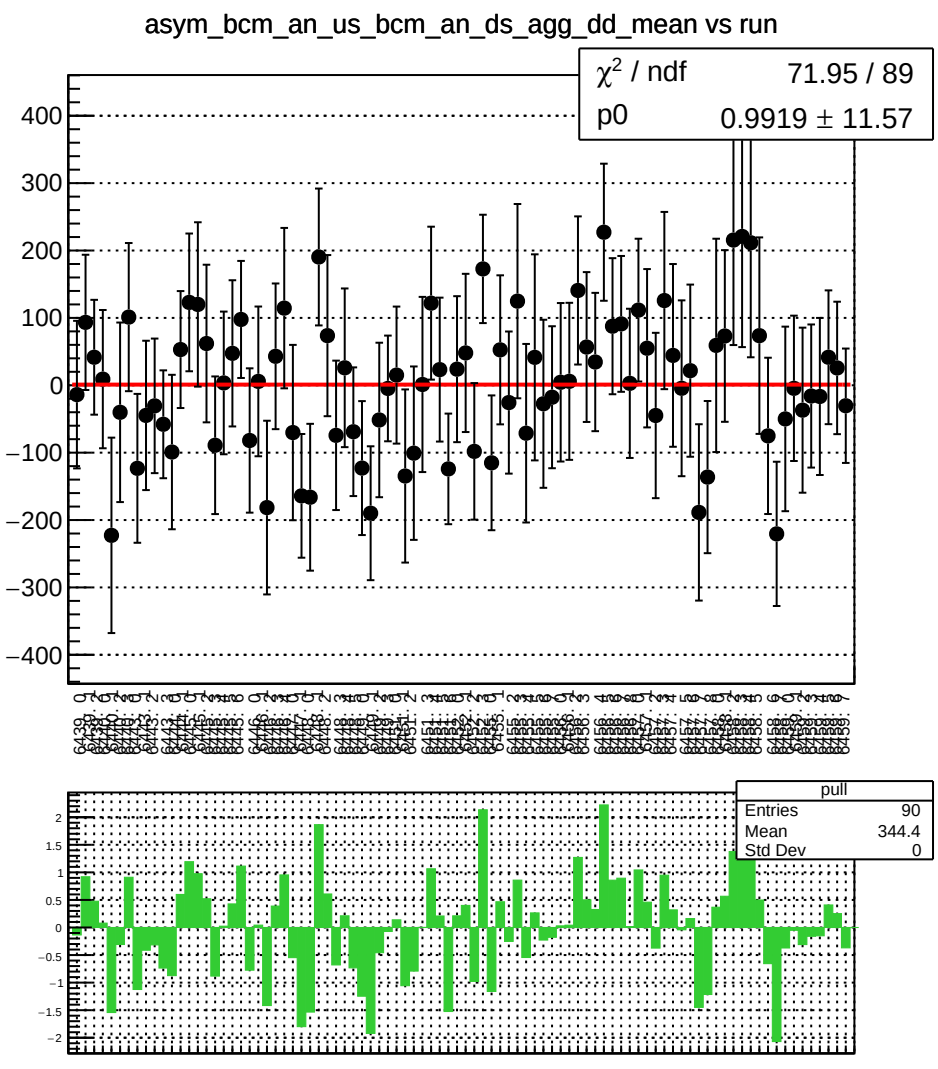

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 88.43 / 89
p0 11.88 ± 16.78
600
400
200
0
−200
−400
−600
pull
Entries 90
Mean 79.91
Std Dev 77.57
2
1
0
−1
−2
−3
pull1D
Entries 90
Mean −0.01513
Std Dev 0.9911
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

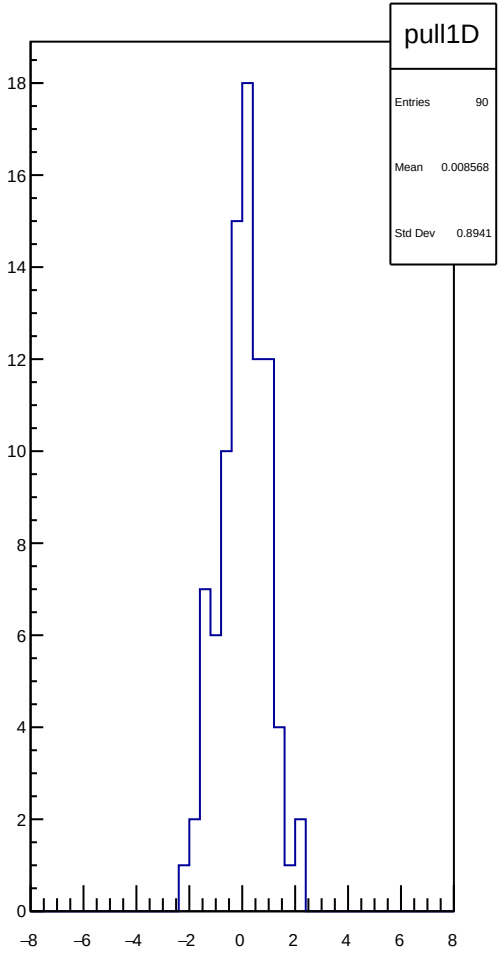

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 4970 / 89
p0 15.81 ± 0.01186
19
18
17
16
15

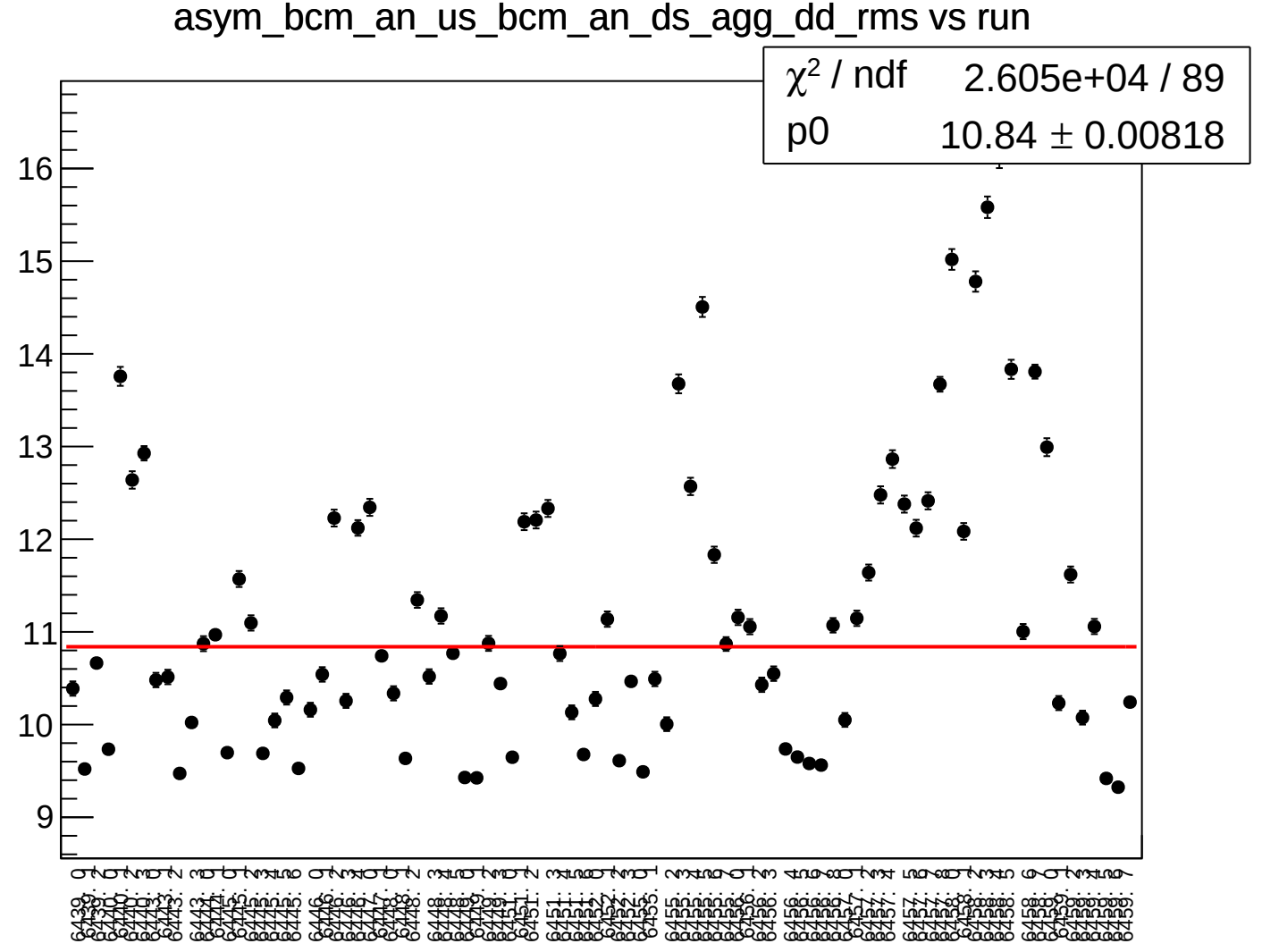

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 81.78 / 89
p0 −34.07 ± 22.47
pull
Entries 90
Mean 5028
Std Dev 0

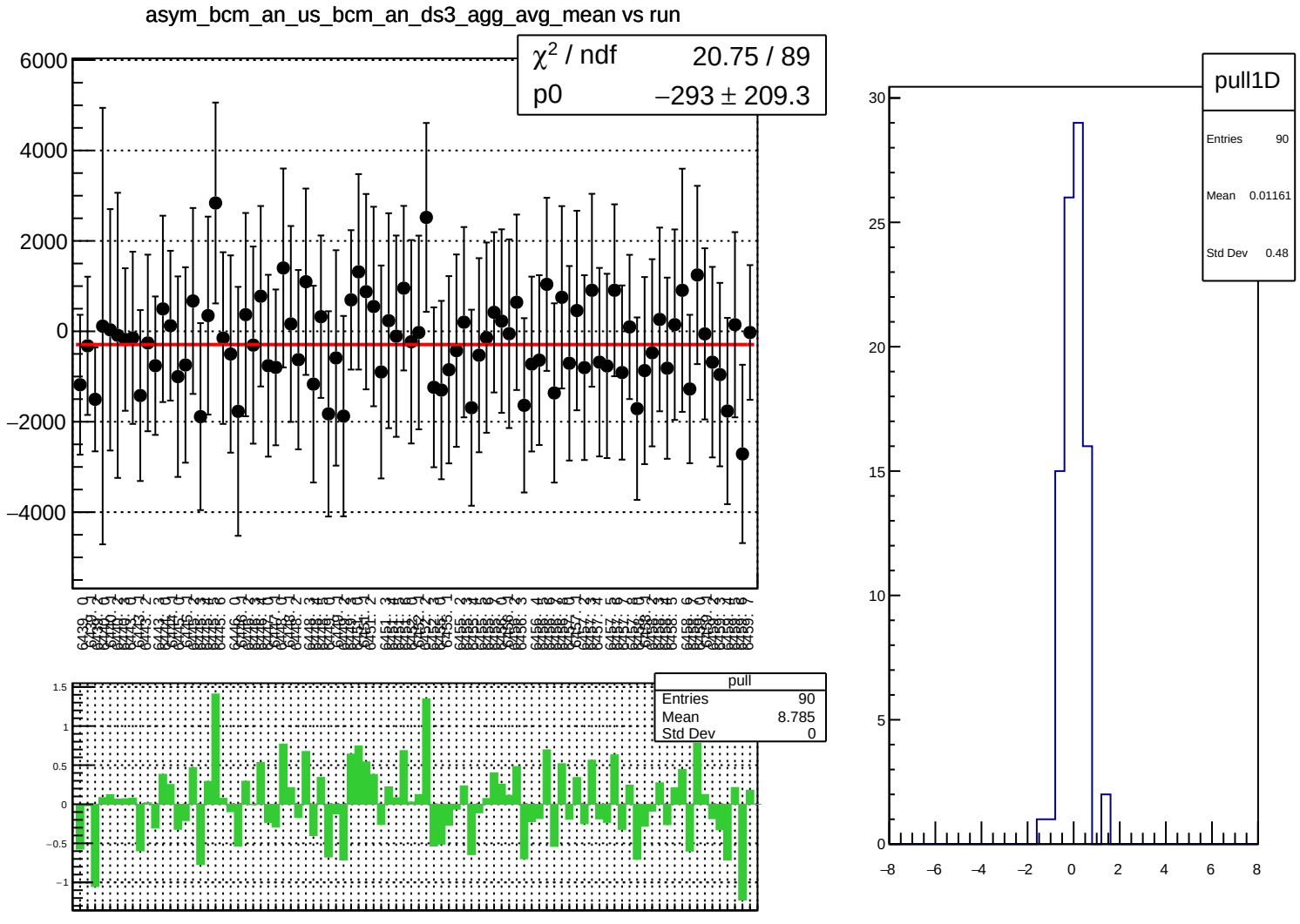

pull1D
Entries 90
Mean 0.001301
Std Dev 0.9532

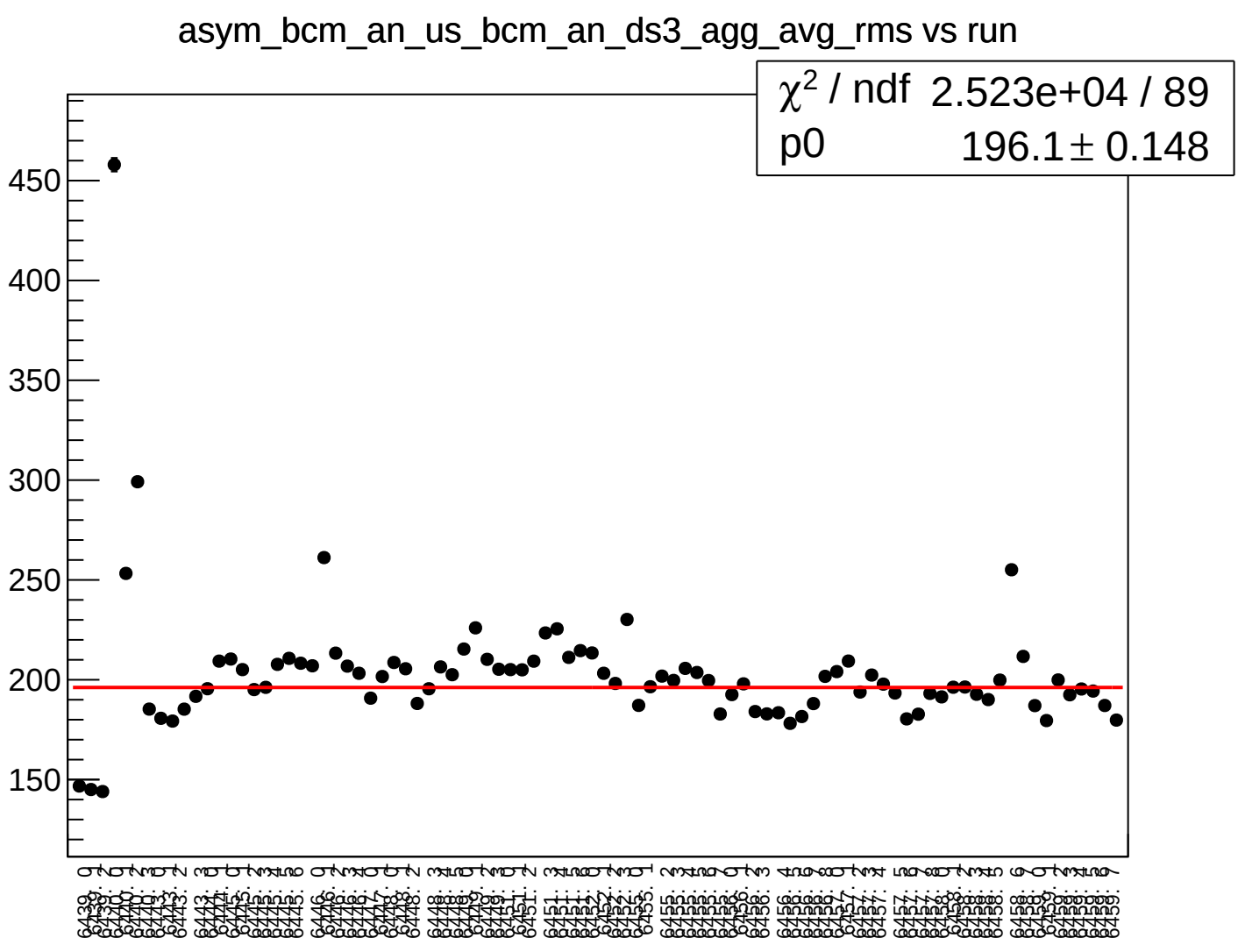

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 695 / 89
p0 21.21 ± 0.01589
23
22.5
22
21.5
21
20.5

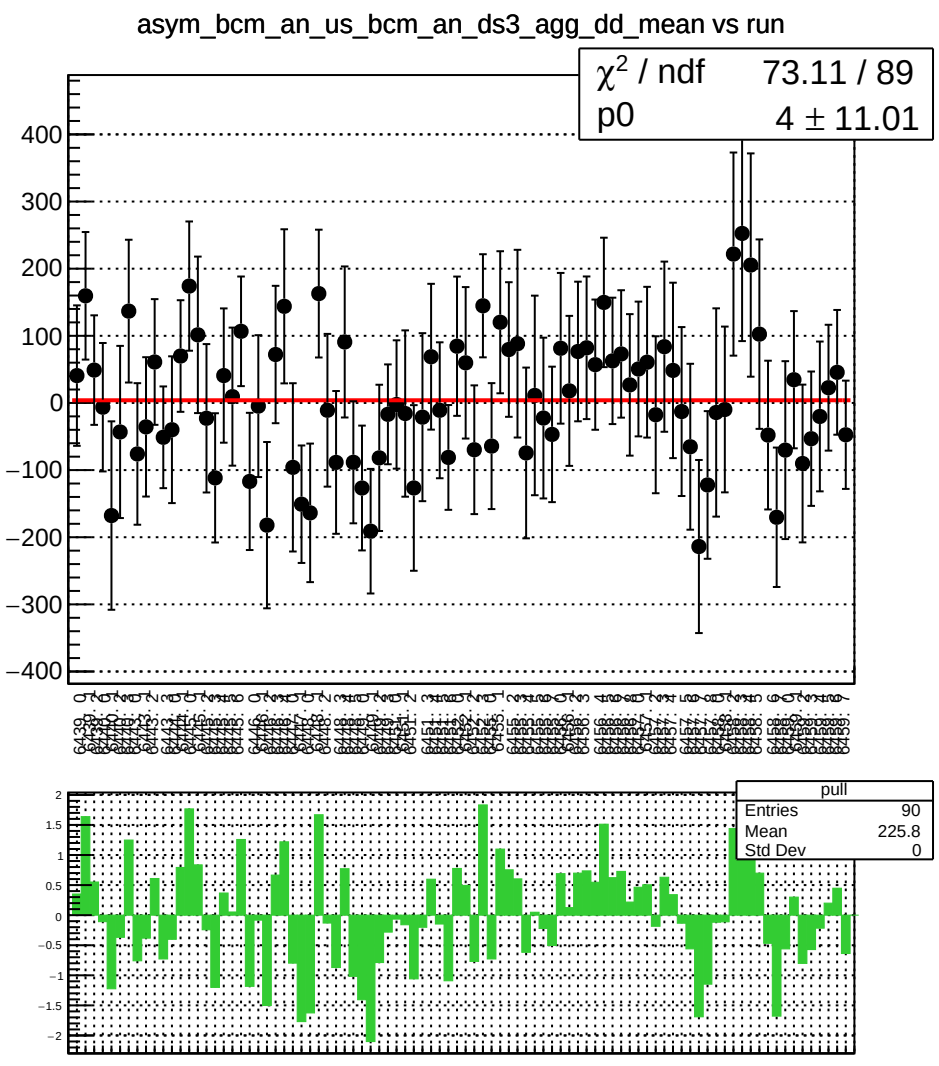

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 71.95 / 89
p0 0.9919 ± 11.57
pull
Entries 90
Mean 344.4
Std Dev 0

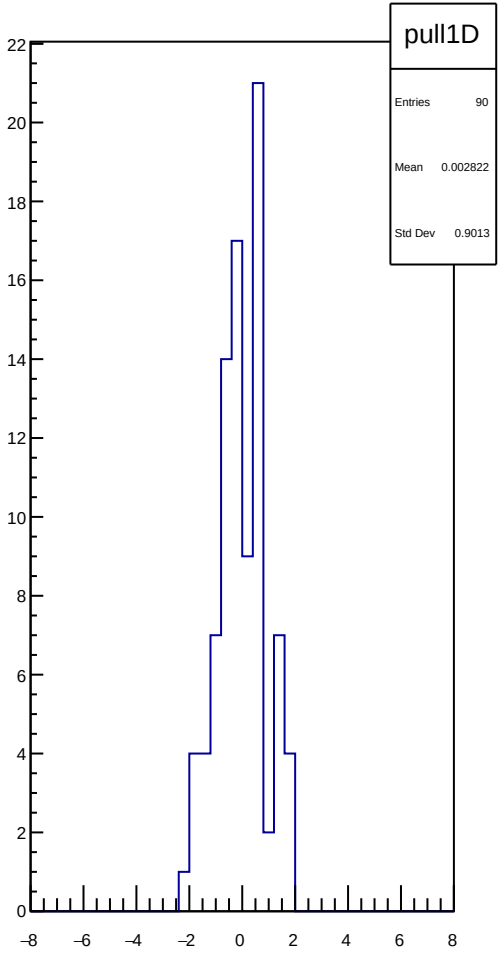

pull1D
Entries 90
Mean 0.008568
Std Dev 0.8941

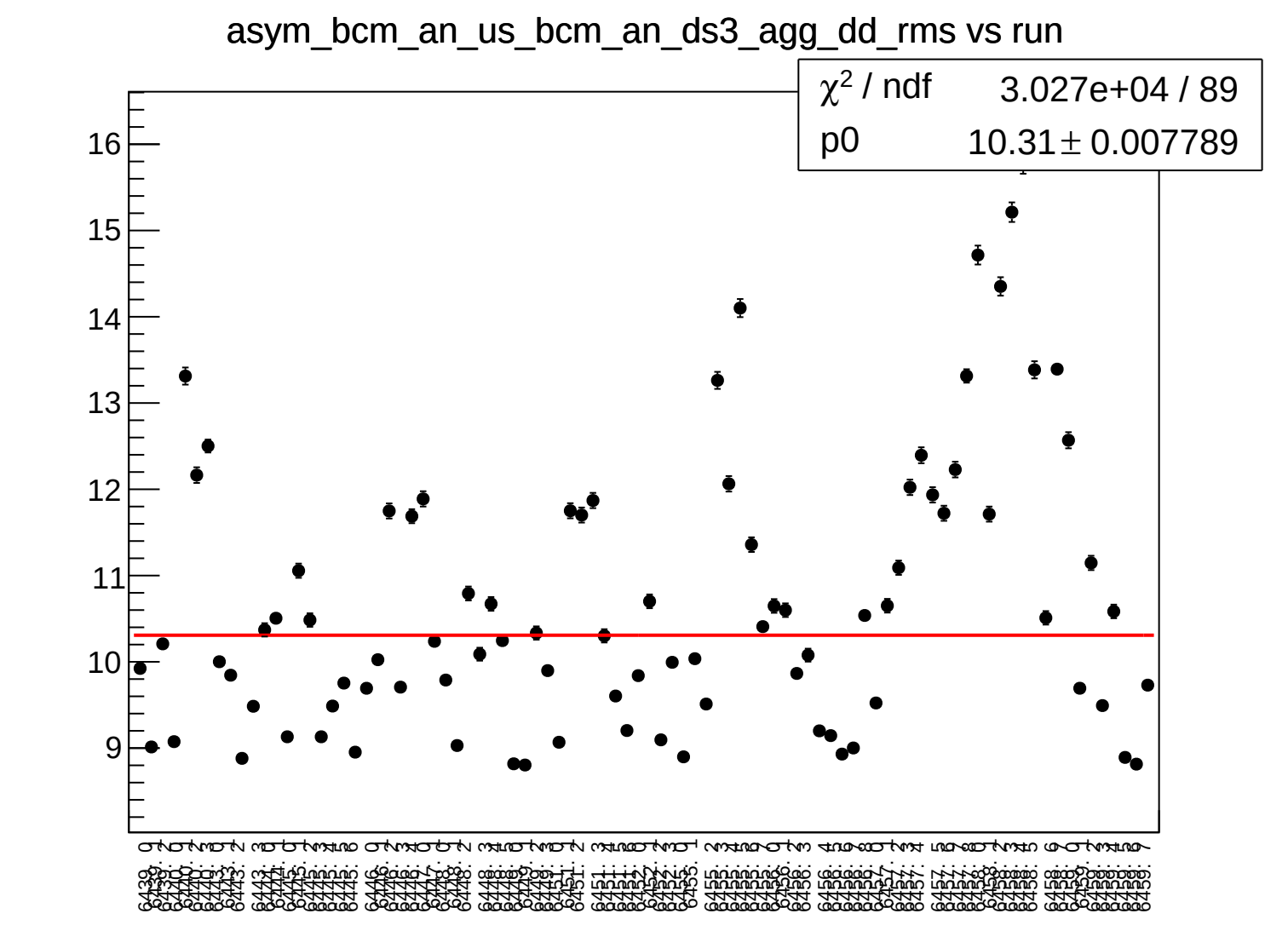

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2.605e+04 / 89
p0 10.84 ± 0.00818
16
15
14
13
12
11
10
9

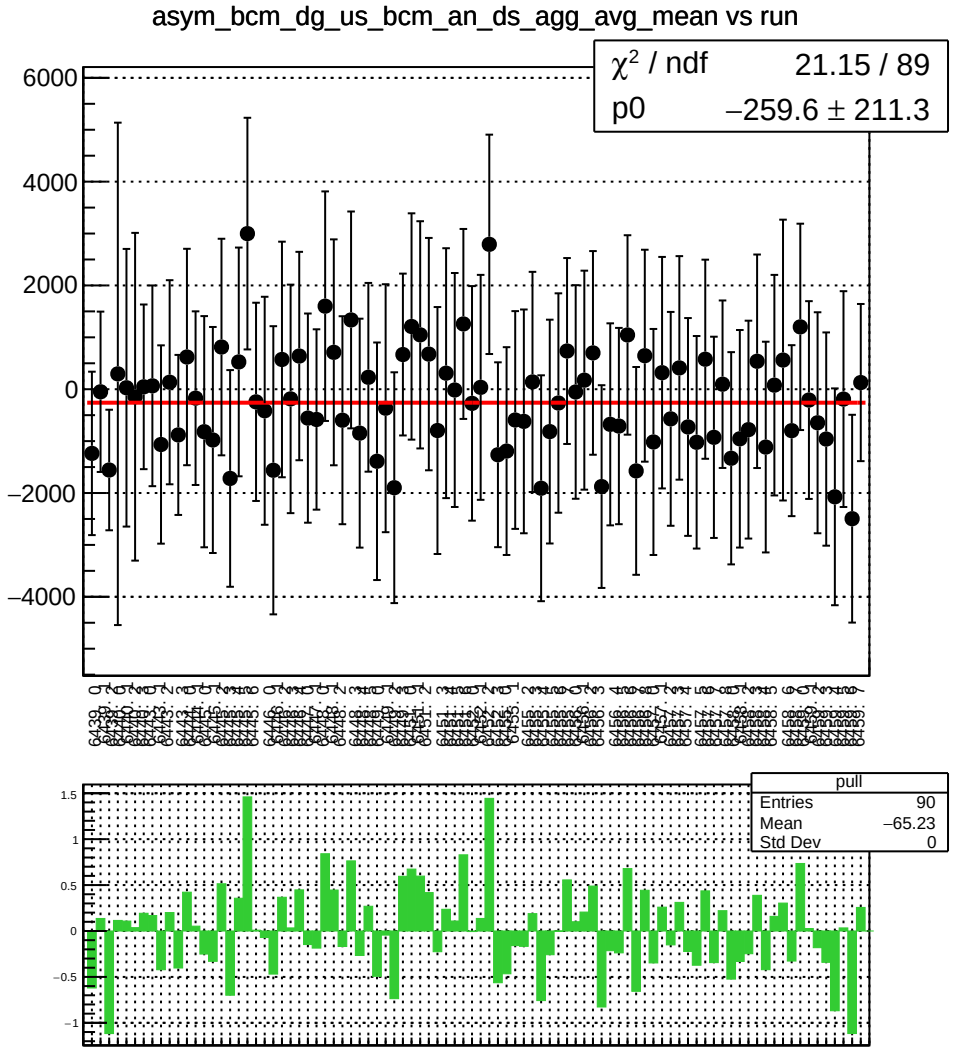

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 20.75 / 89
p0 −293 ± 209.3
6000
4000
2000
0
−2000
−4000
pull
Entries 90
Mean 8.785
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 90
Mean 0.01161
Std Dev 0.48
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

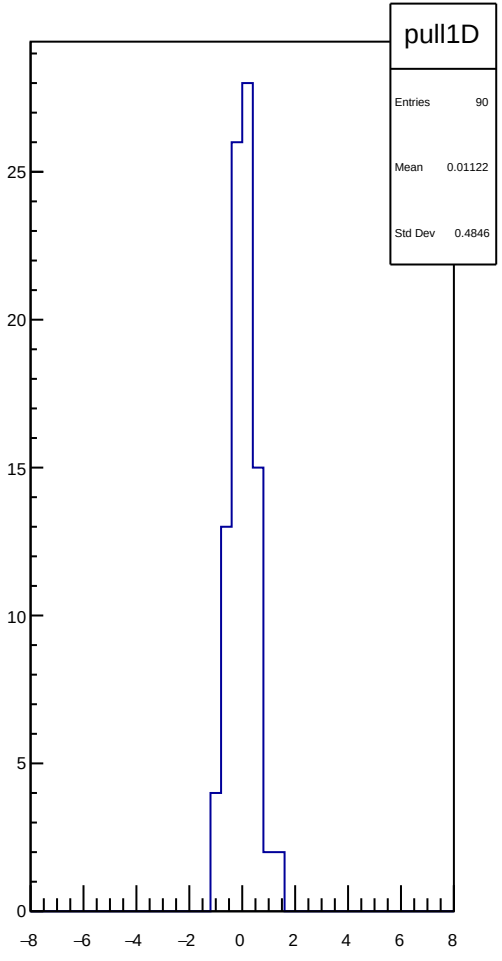

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 2.523e+04 / 89
p0 196.1 ± 0.148
450
400
350
300
250
200
150

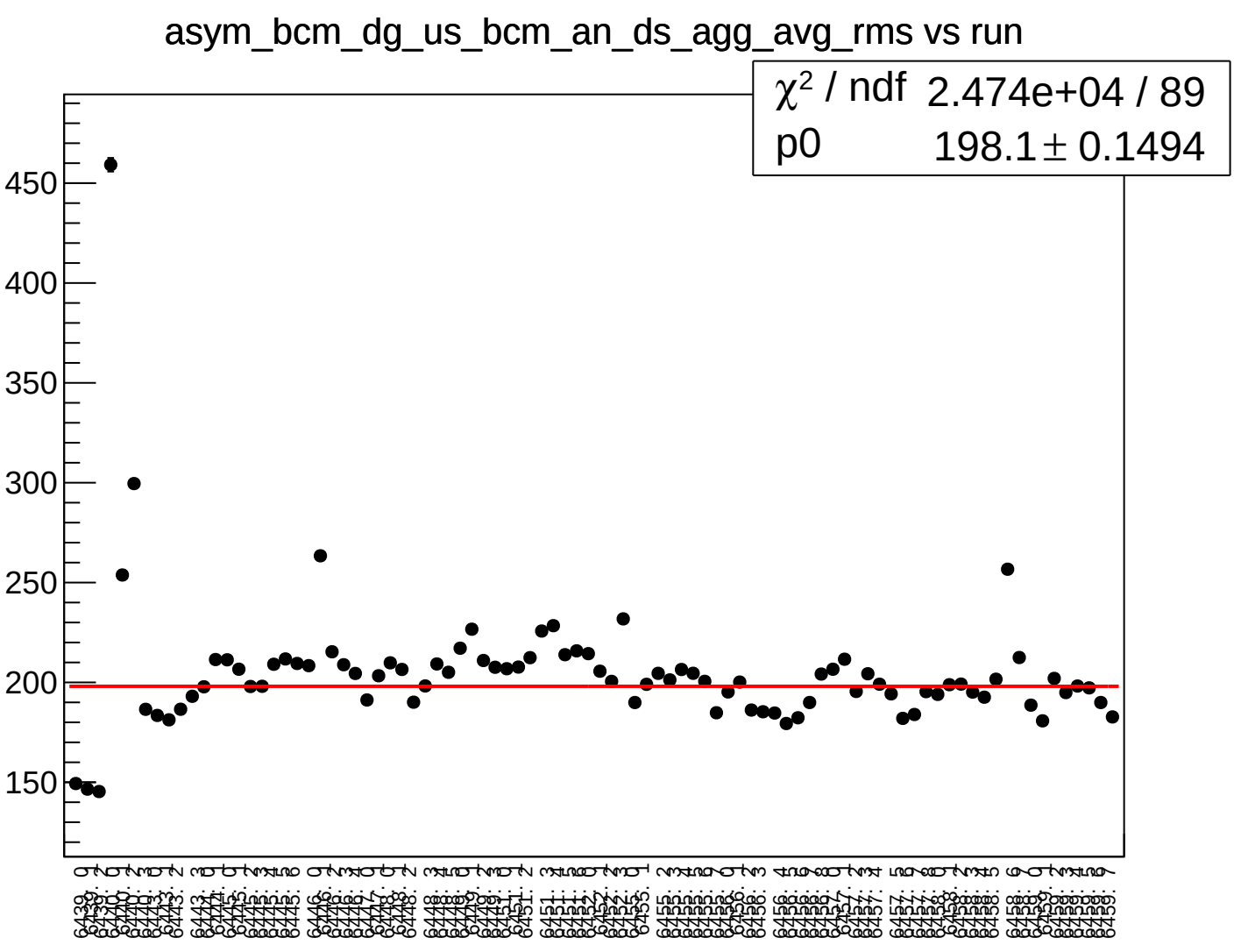

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 73.11 / 89
p0 4 ± 11.01
pull
Entries 90
Mean 225.8
Std Dev 0

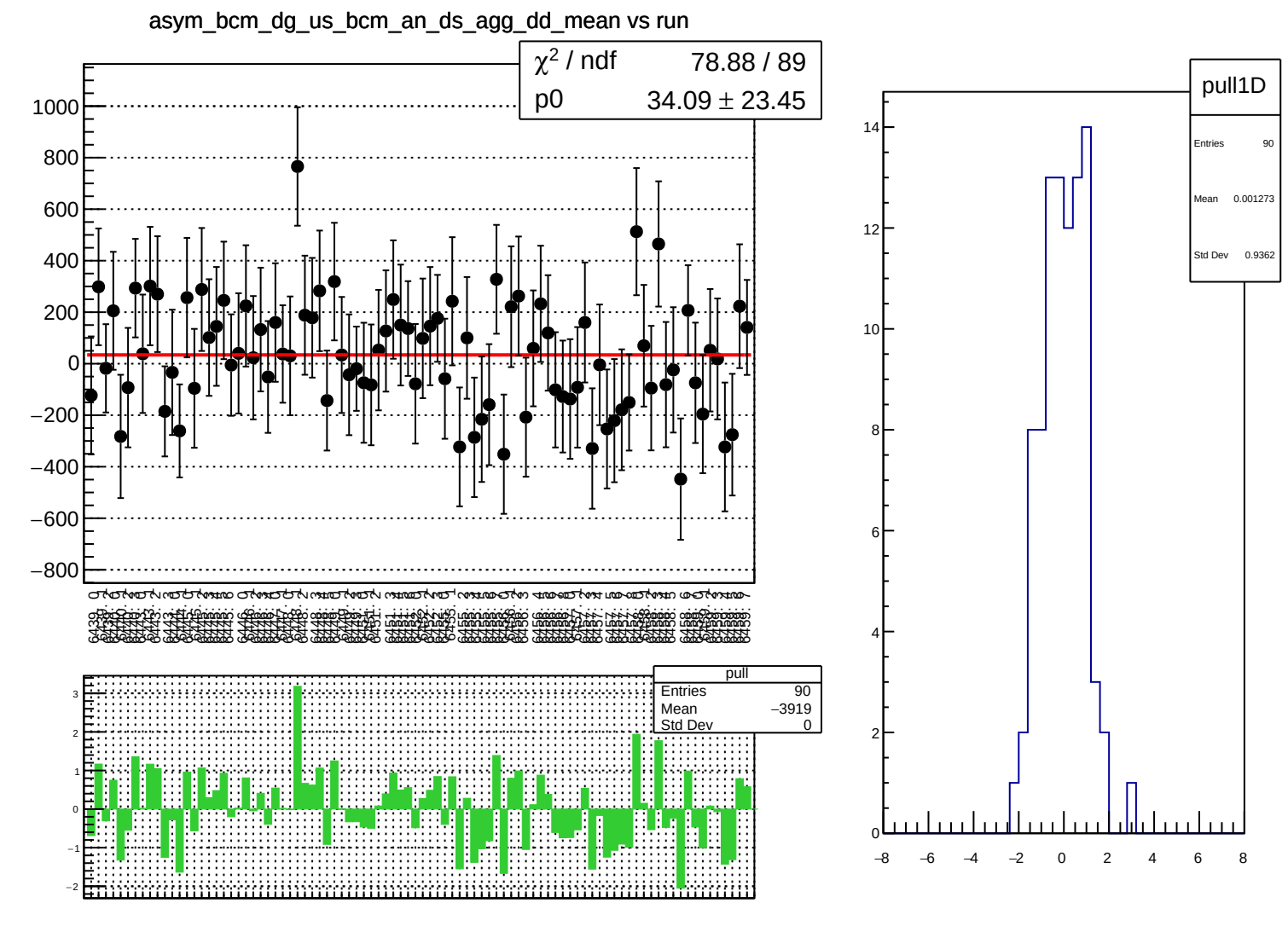

pull1D
Entries 90
Mean 0.002822
Std Dev 0.9013

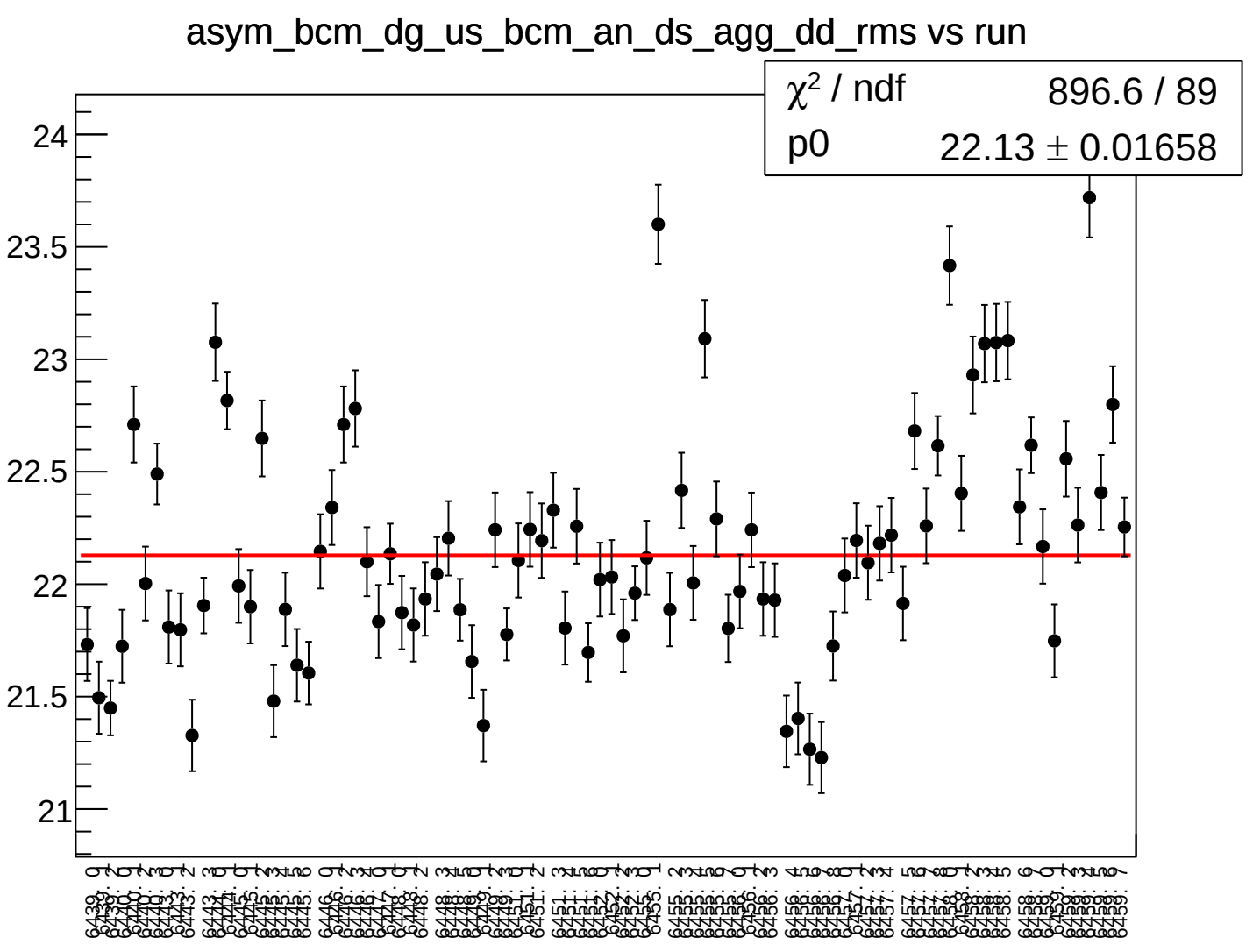

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 3.027e+04 / 89
p0 10.31 ± 0.007789
16
15
14
13
12
11
10
9

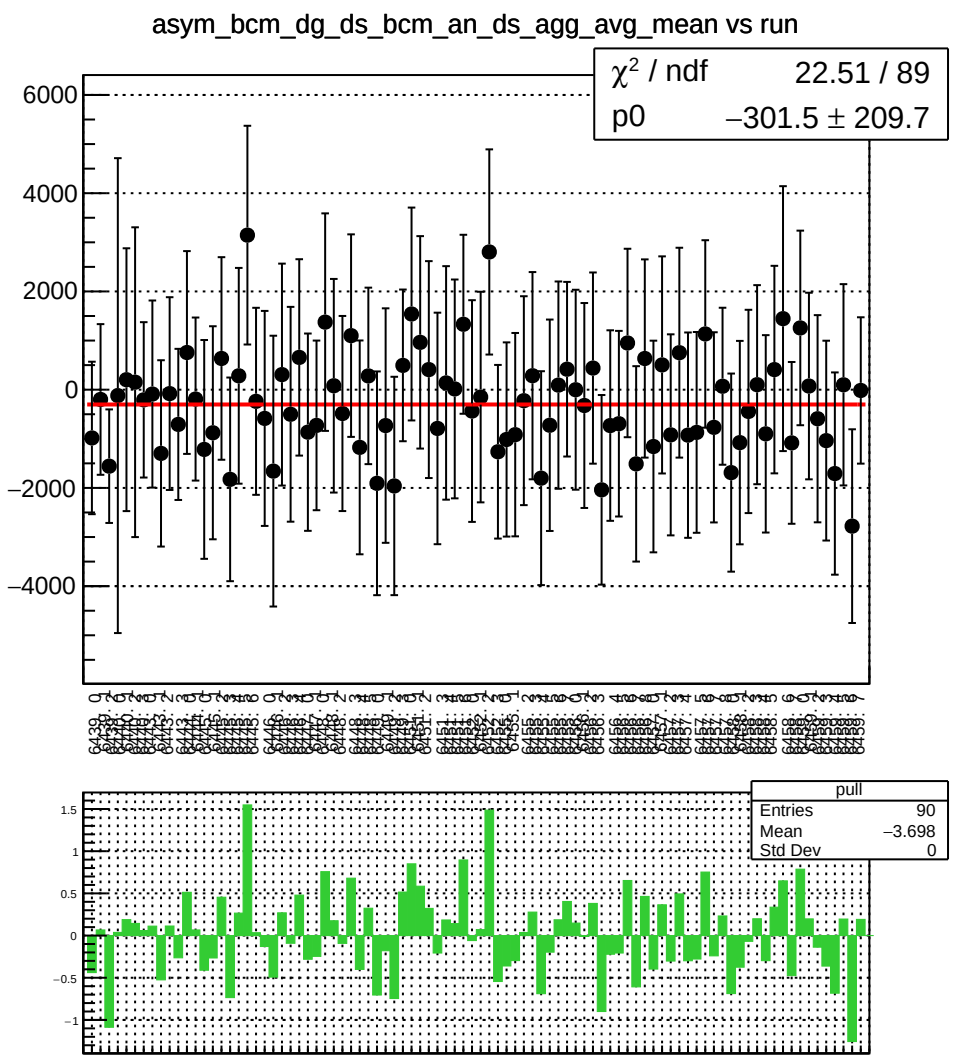

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 21.15 / 89
p0 −259.6 ± 211.3
6000
4000
2000
0
−2000
−4000
pull
Entries 90
Mean −65.23
Std Dev 0
1.5
1
0.5
0
−0.5
−1

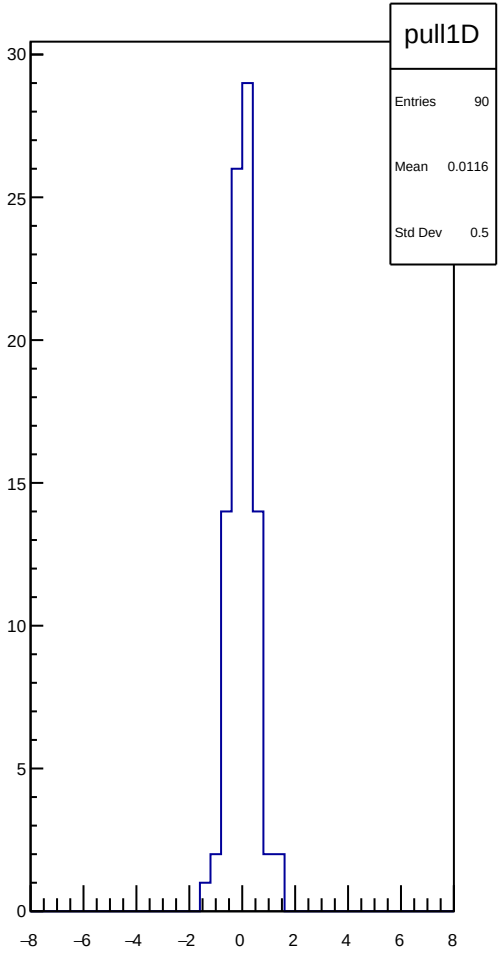

pull1D
Entries 90
Mean 0.01122
Std Dev 0.4846
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

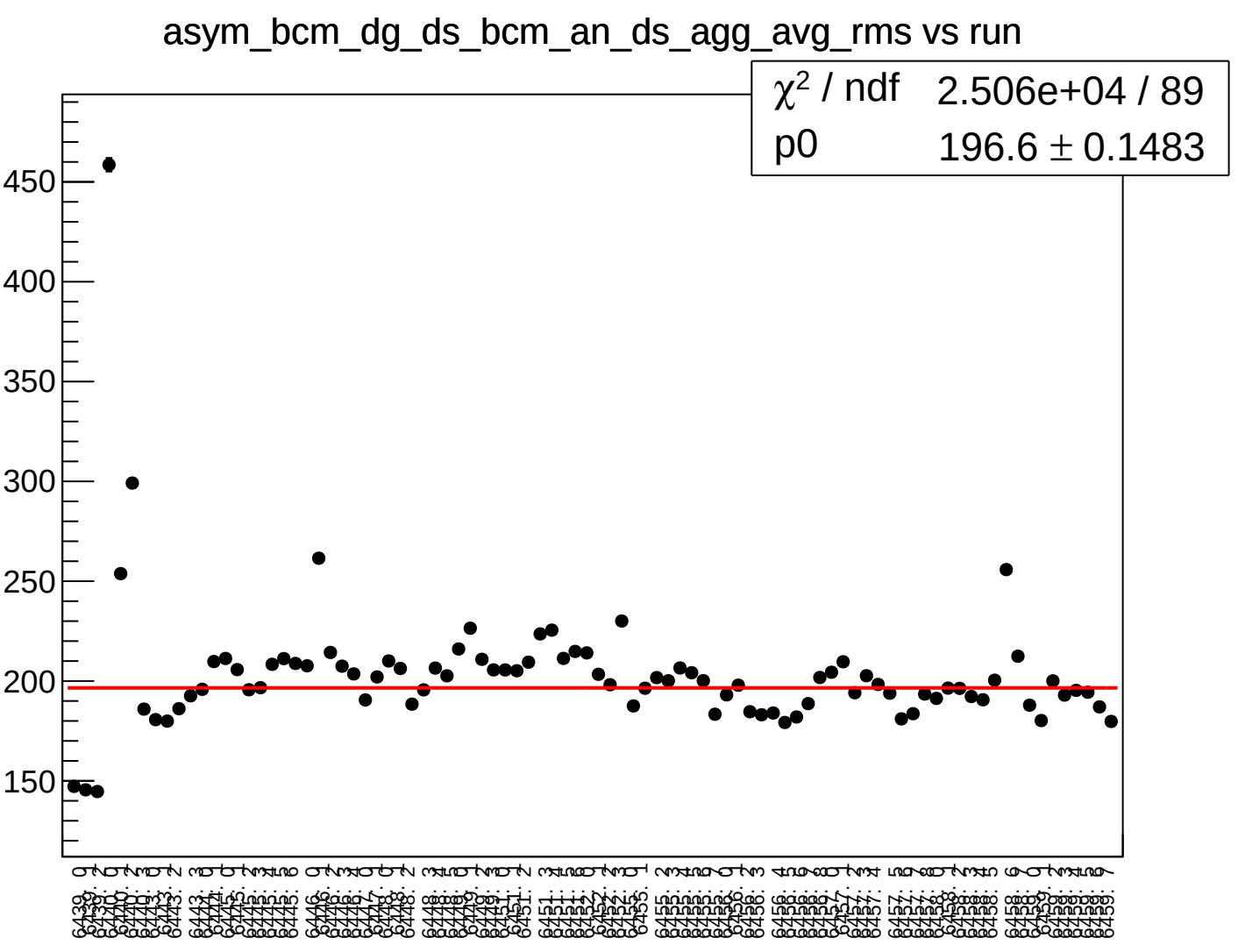

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2.474e+04 / 89
p0 198.1 ± 0.1494
450
400
350
300
250
200
150

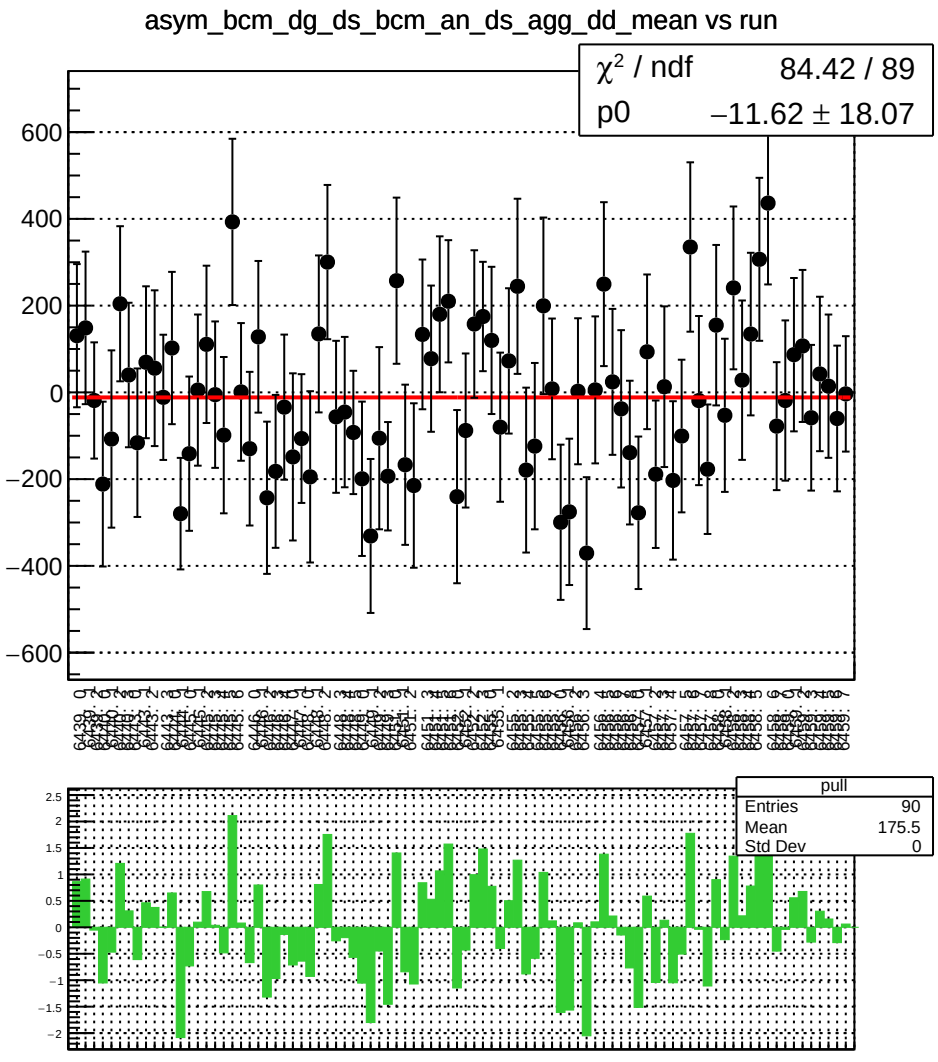

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 78.88 / 89
p0 34.09 ± 23.45
pull
Entries 90
Mean −3919
Std Dev 0
pull1D
Entries 90
Mean 0.001273
Std Dev 0.9362

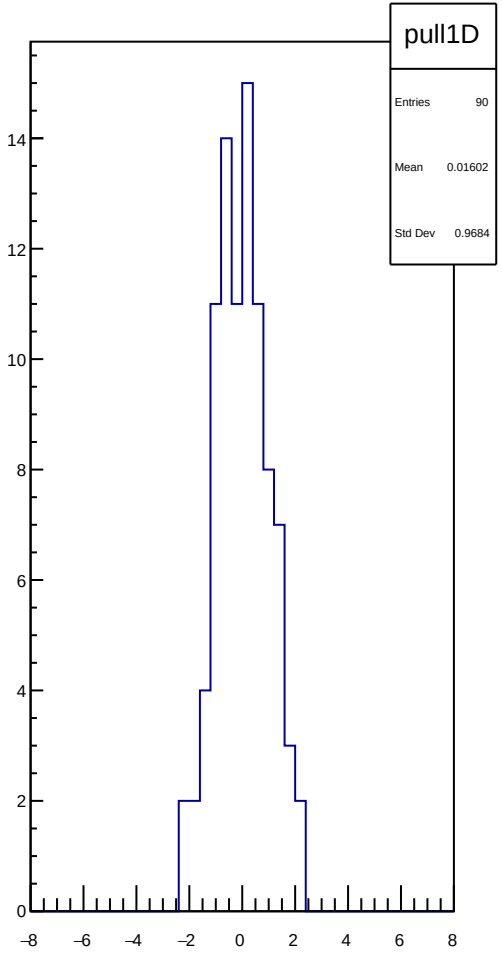

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 896.6 / 89
p0 22.13 ± 0.01658
24
23.5
23
22.5
22
21.5
21

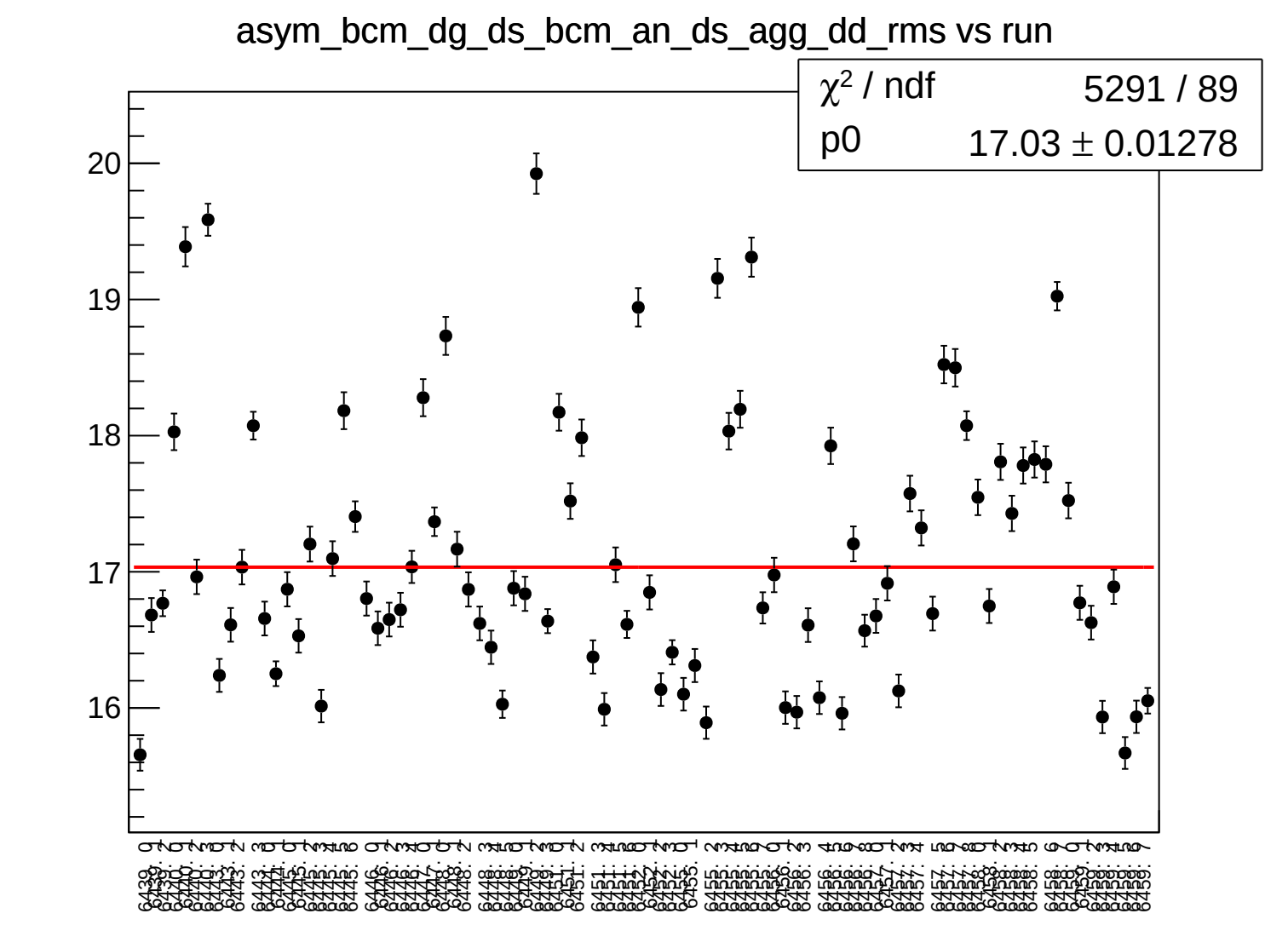

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 22.51 / 89
p0 −301.5 ± 209.7
6000
4000
2000
0
−2000
−4000
pull
Entries 90
Mean −3.698
Std Dev 0
1.5
1
0.5
0
−0.5
−1

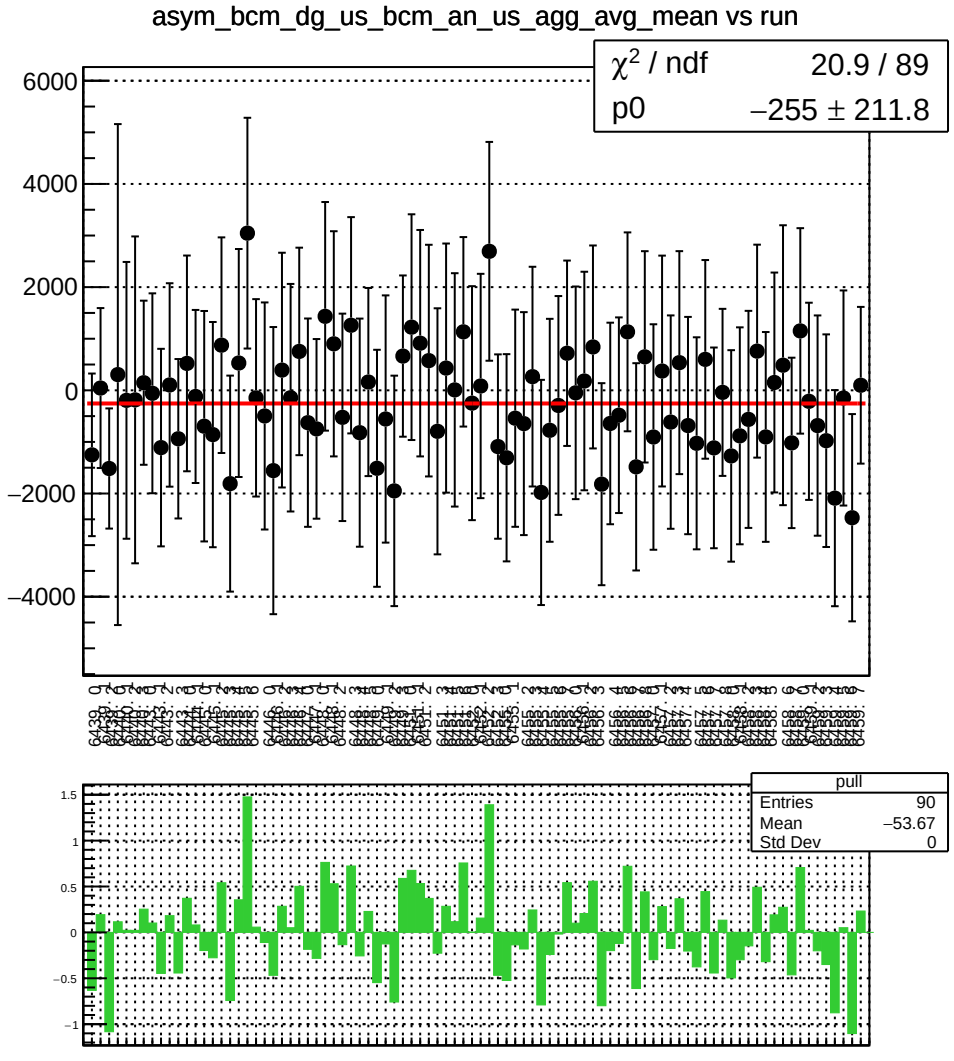

pull1D
Entries 90
Mean 0.0116
Std Dev 0.5
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

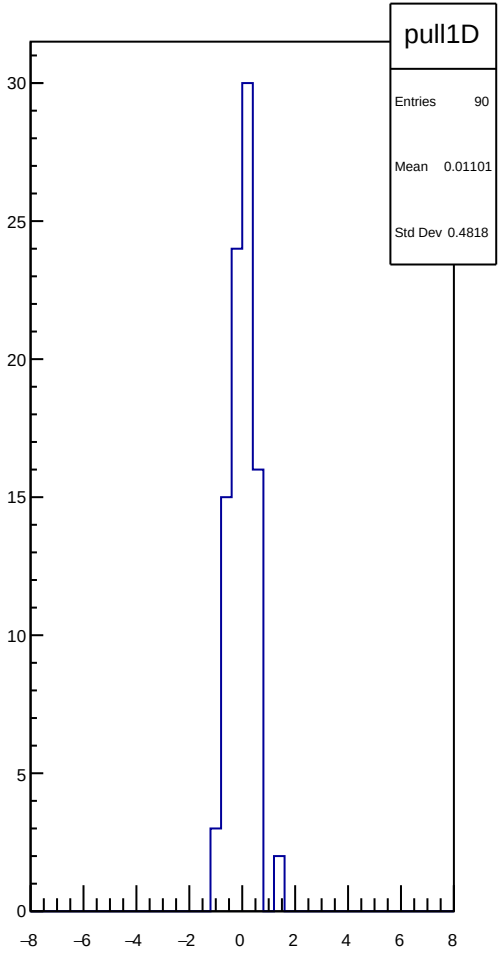

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2.506e+04 / 89
p0 196.6 ± 0.1483
450
400
350
300
250
200
150

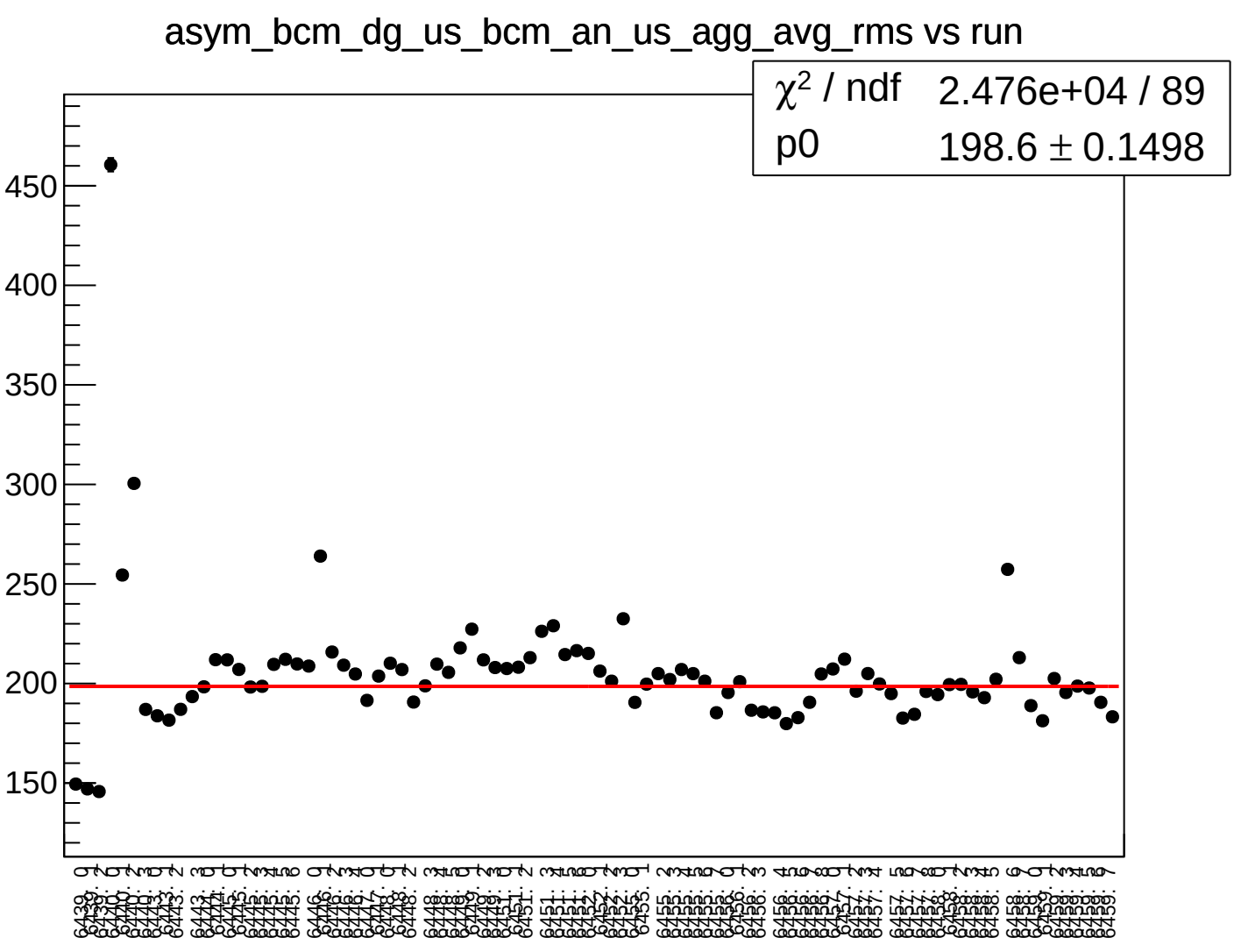

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 84.42 / 89
p0 −11.62 ± 18.07
pull
Entries 90
Mean 175.5
Std Dev 0

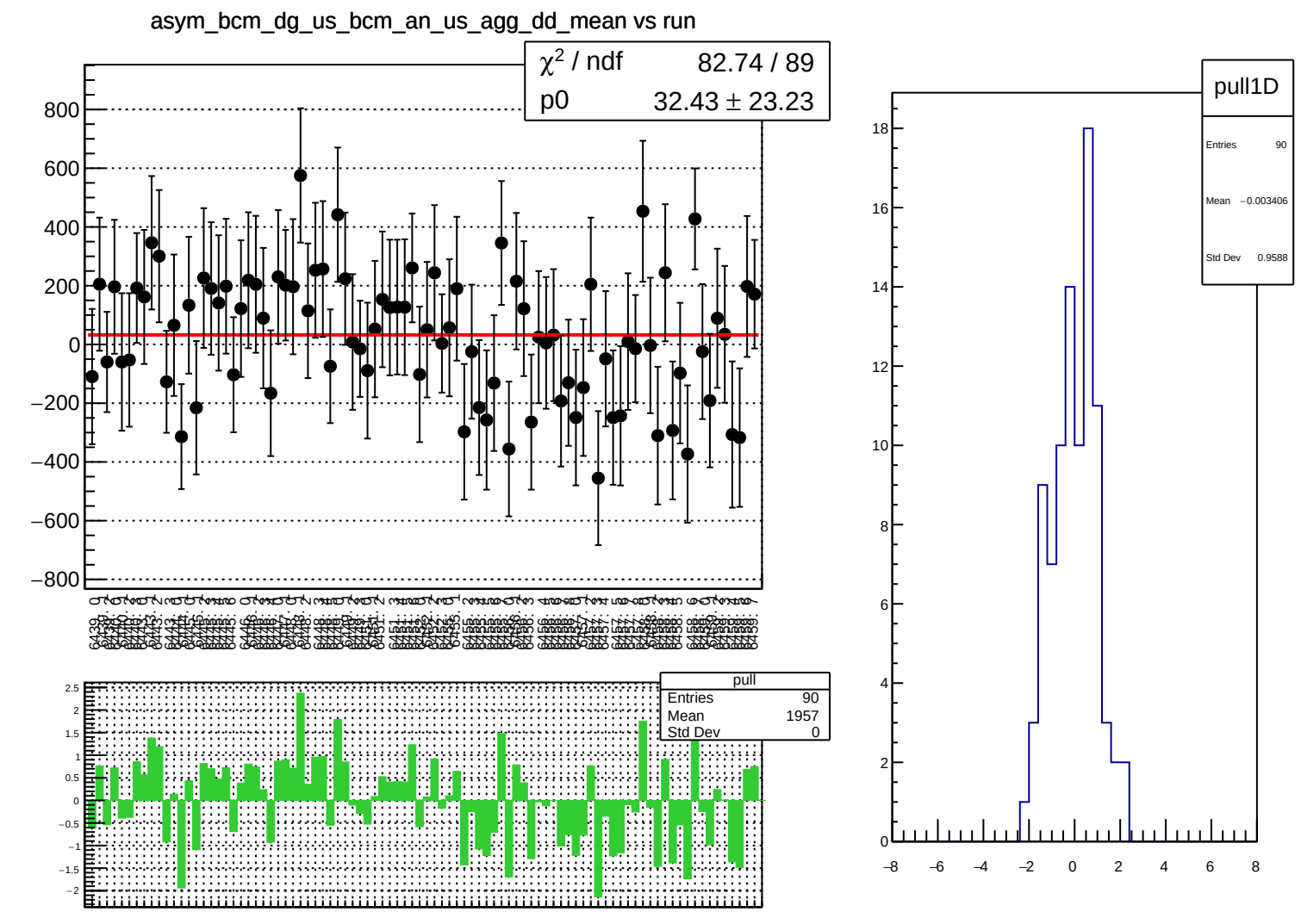

pull1D
Entries 90
Mean 0.01602
Std Dev 0.9684

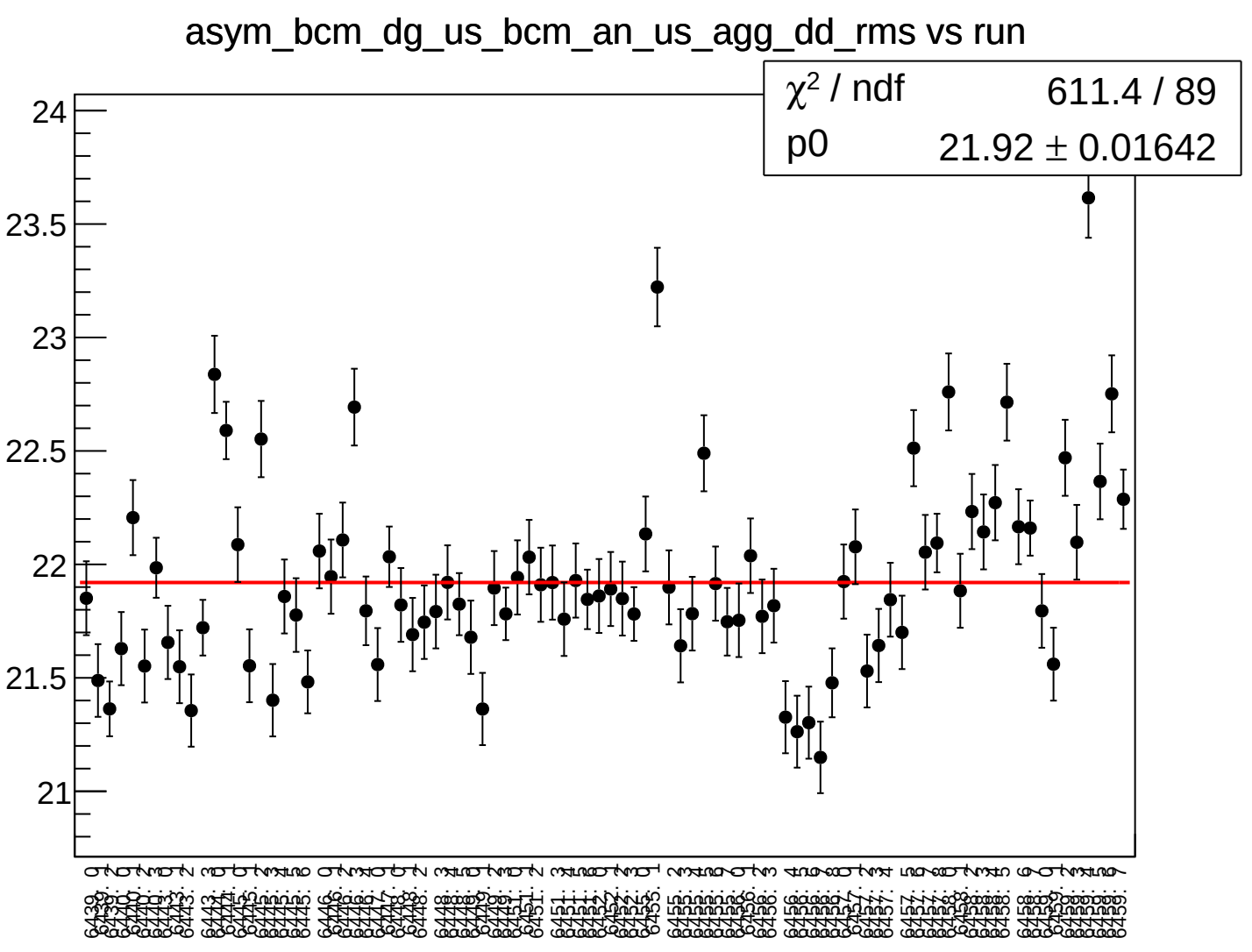

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 5291 / 89
p0 17.03 ± 0.01278
20
19
18
17
16

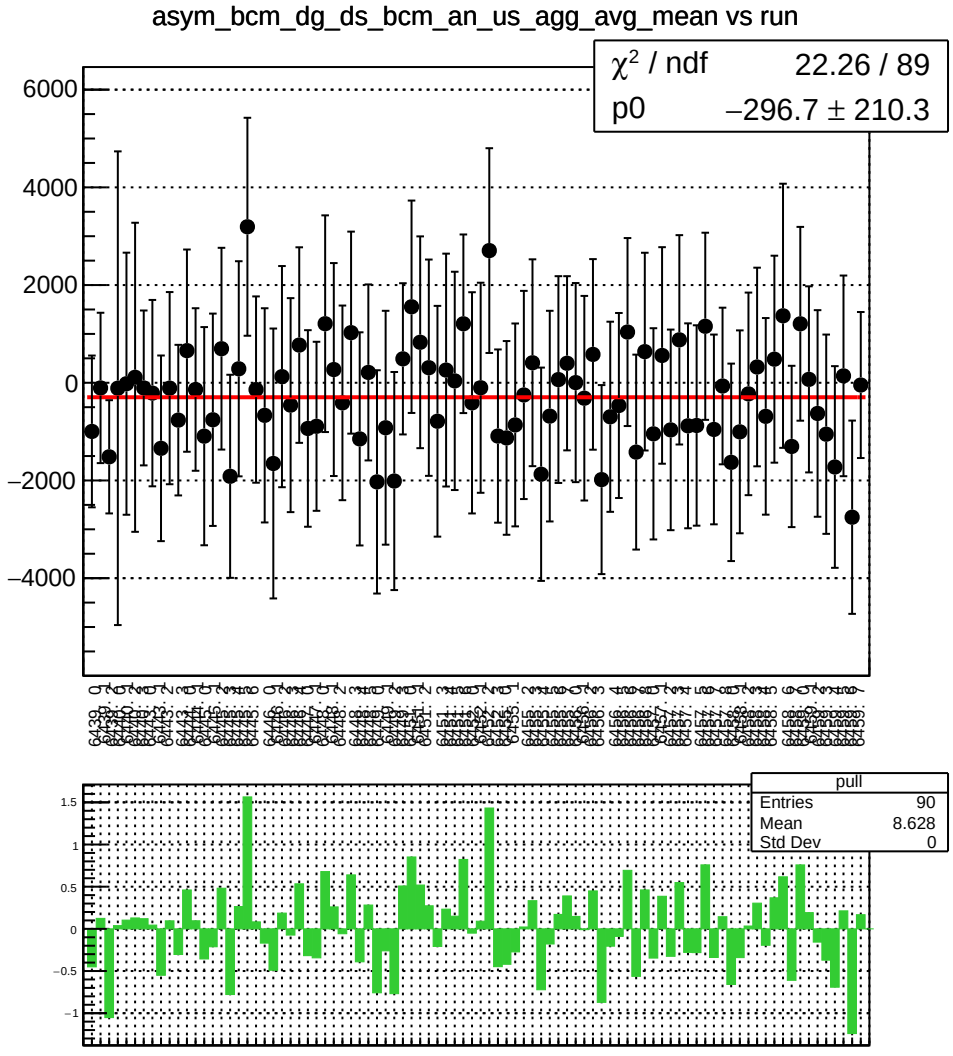

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 20.9 / 89
p0 −255 ± 211.8
6000
4000
2000
0
−2000
−4000
pull
Entries 90
Mean −53.67
Std Dev 0
1.5
1
0.5
0
−0.5
−1

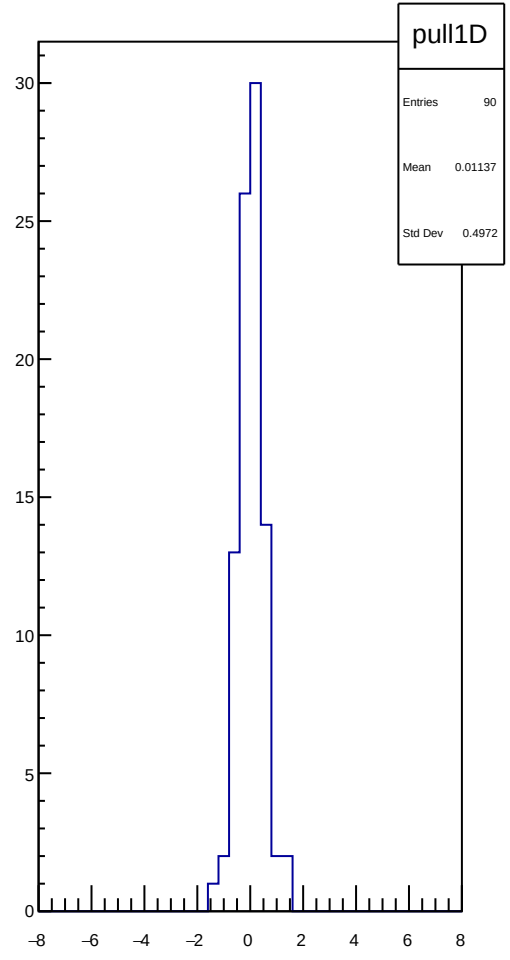

pull1D
Entries 90
Mean 0.01101
Std Dev 0.4818
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

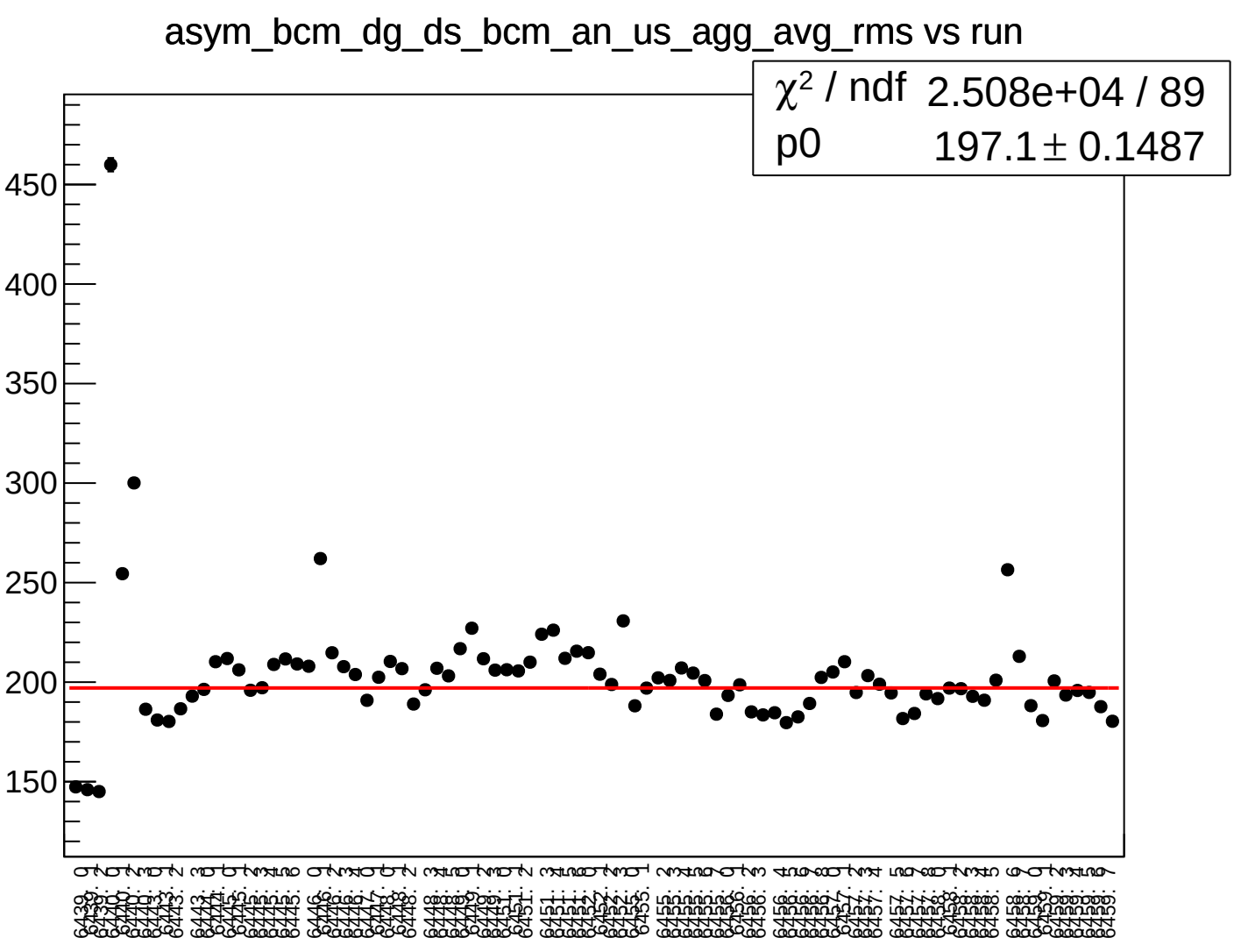

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 2.476e+04 / 89
p0 198.6 ± 0.1498
450
400
350
300
250
200
150

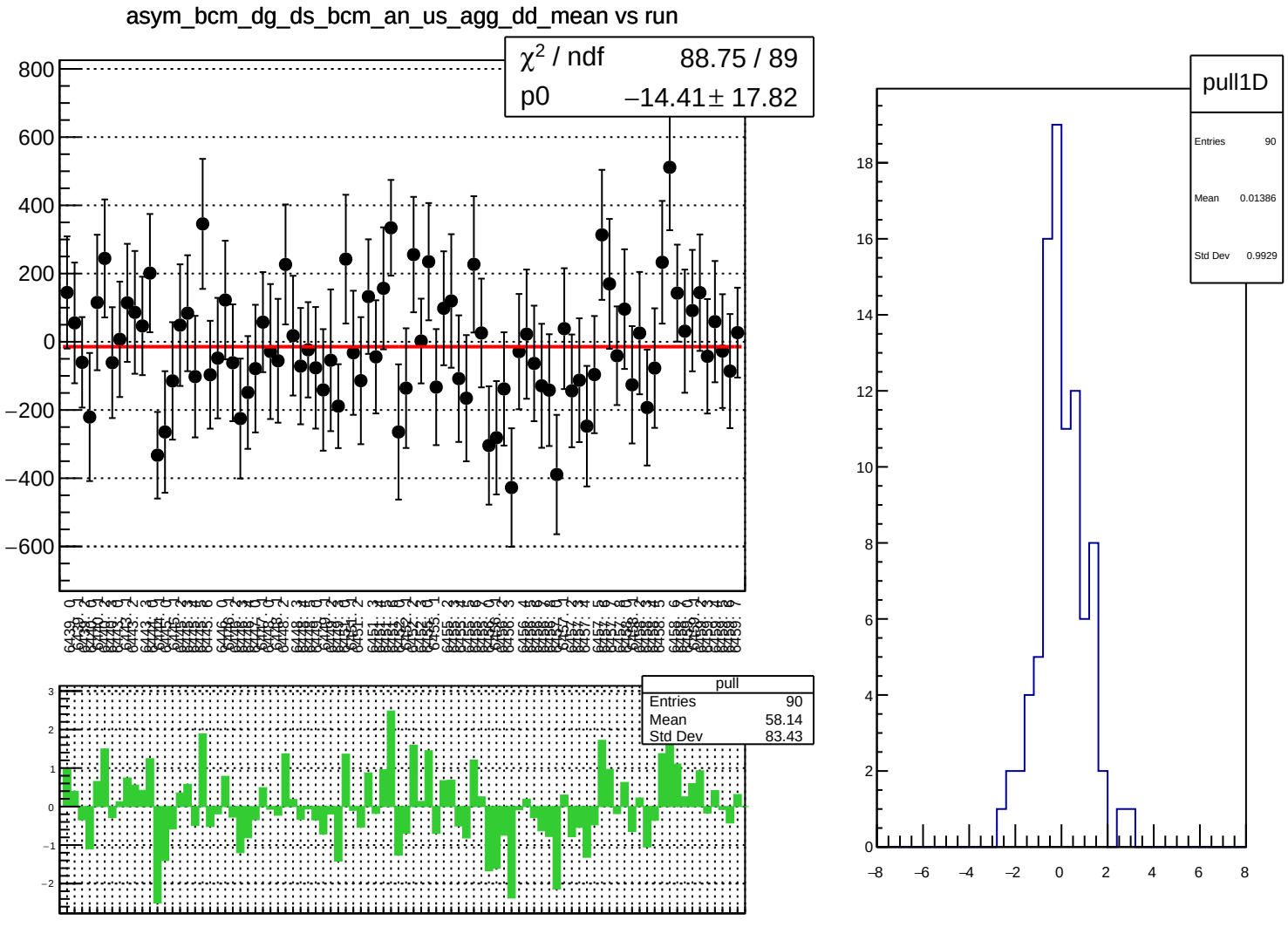

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 82.74 / 89
p0 32.43 ± 23.23
pull
Entries 90
Mean 1957
Std Dev 0
pull1D
Entries 90
Mean −0.003406
Std Dev 0.9588

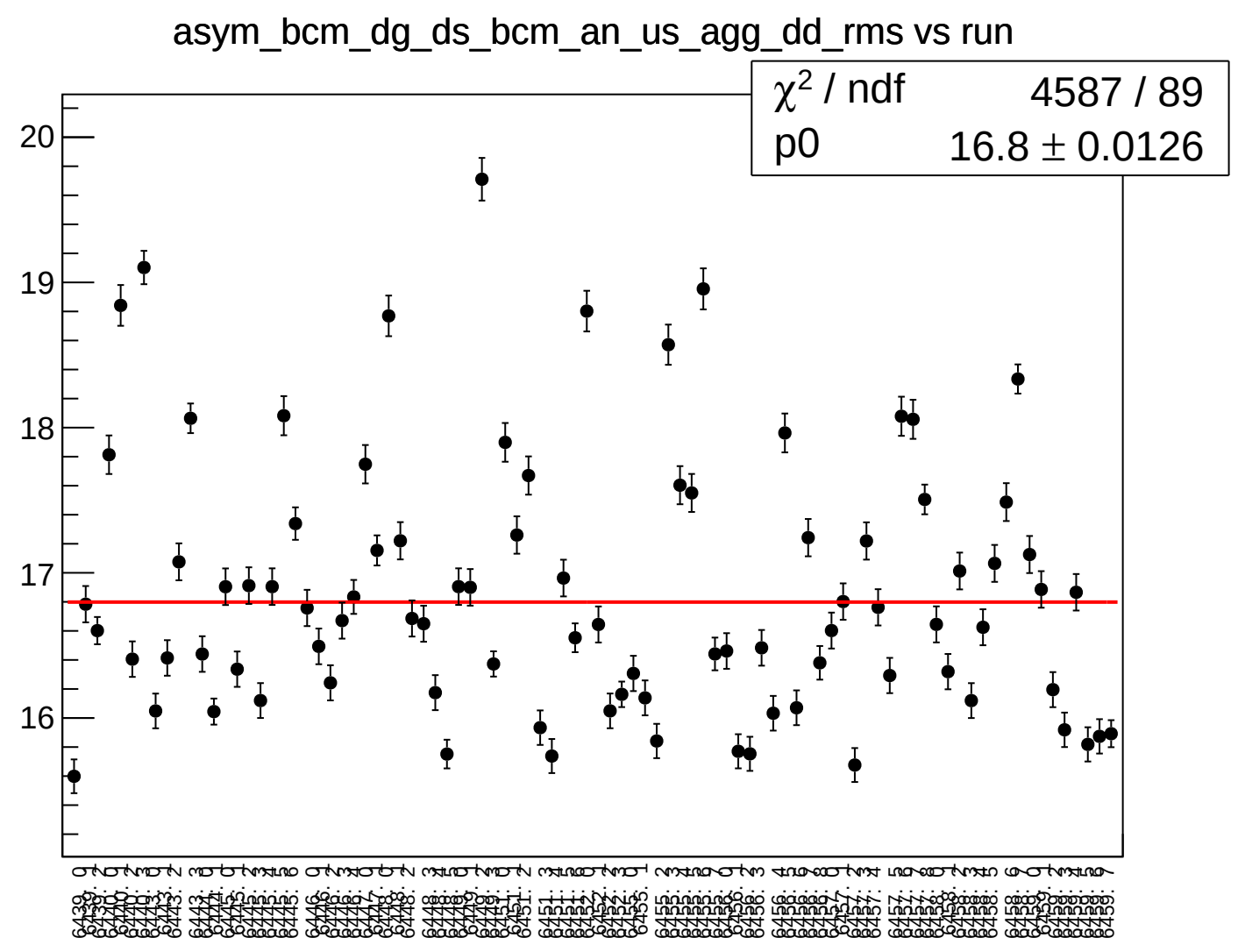

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 611.4 / 89
p0 21.92 ± 0.01642
24
23.5
23
22.5
22
21.5
21

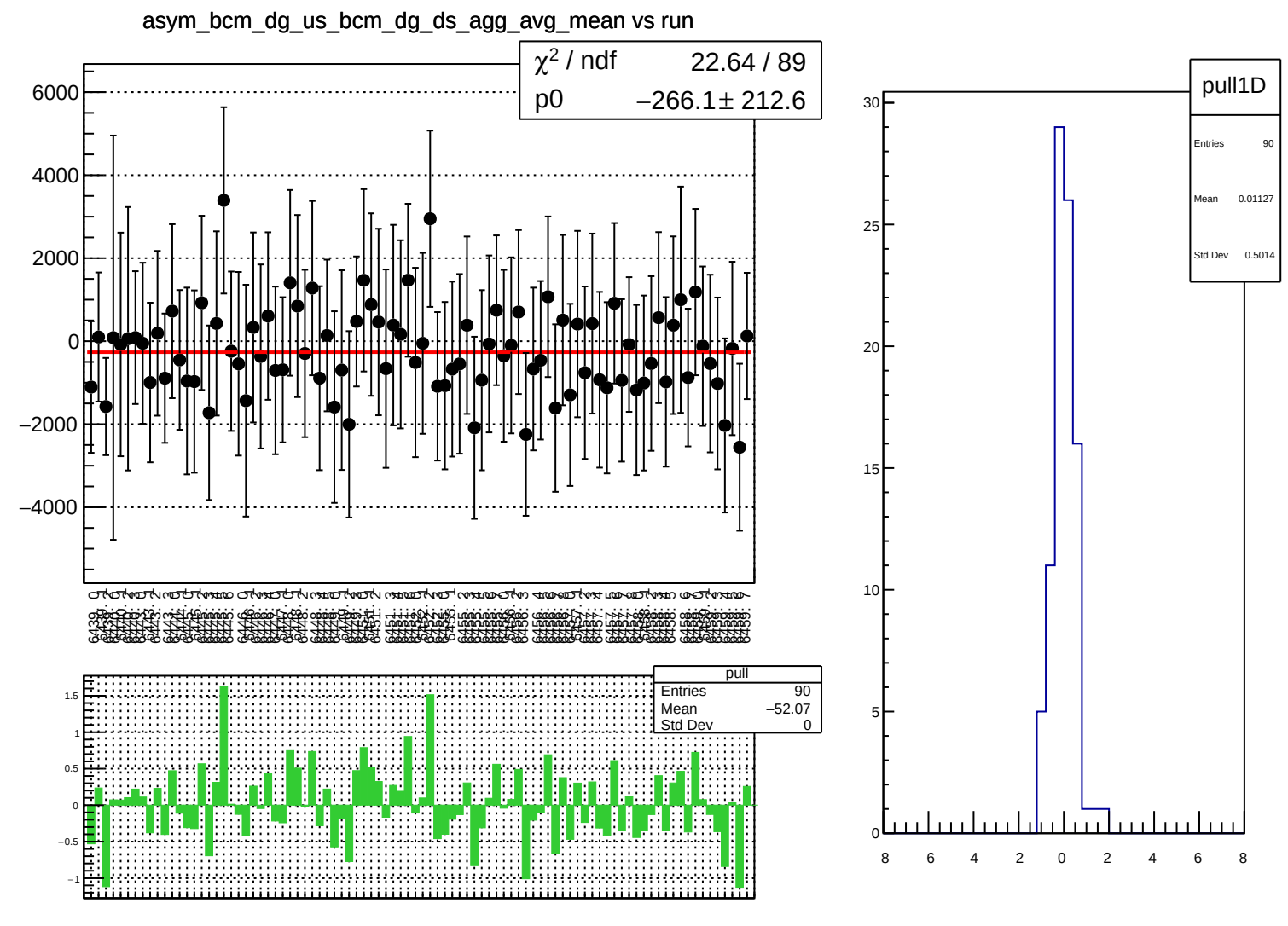

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 22.26 / 89
p0 −296.7 ± 210.3
6000
4000
2000
0
−2000
−4000
pull
Entries 90
Mean 8.628
Std Dev 0
1.5
1
0.5
0
−0.5
−1

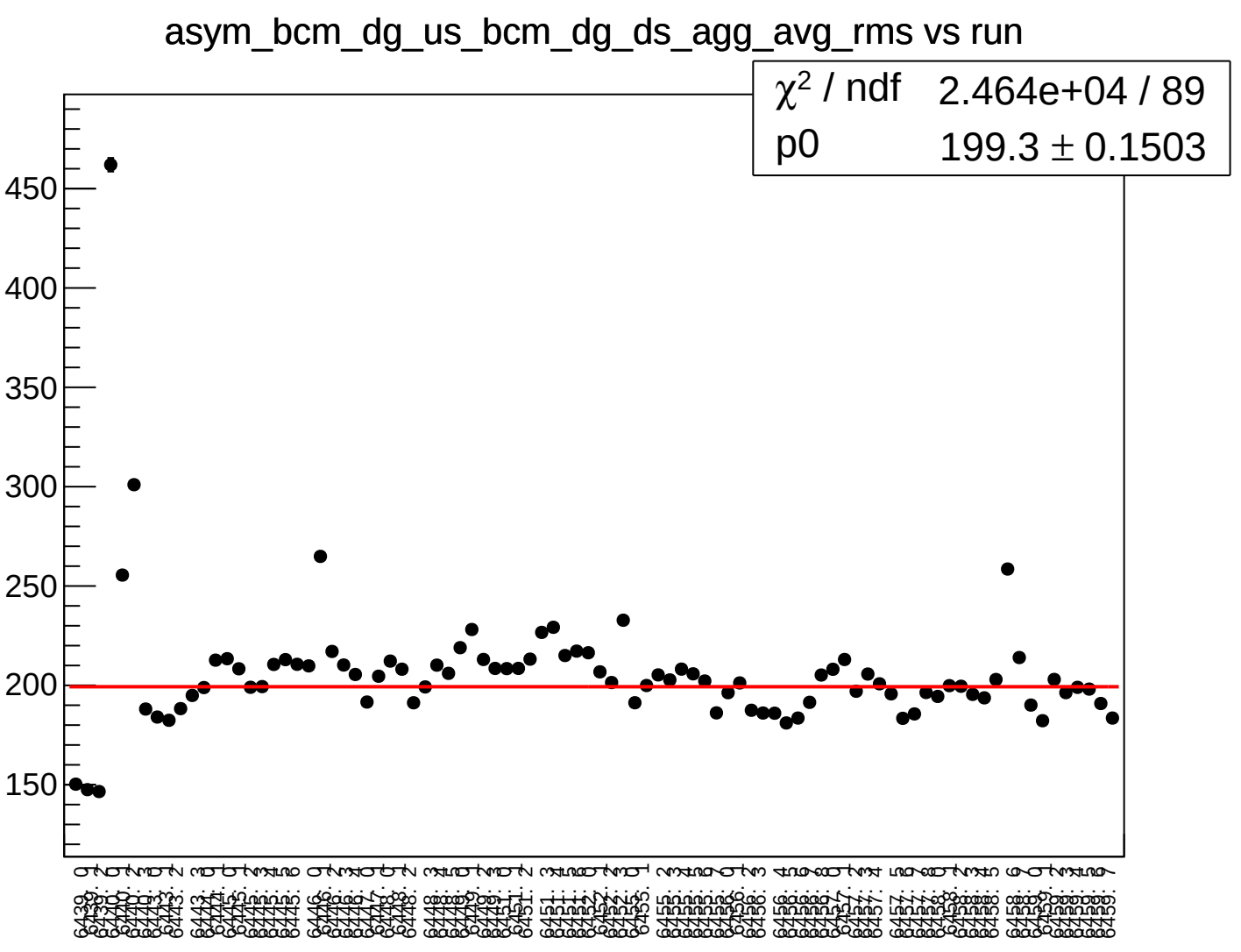

pull1D
Entries 90
Mean 0.01137
Std Dev 0.4972
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

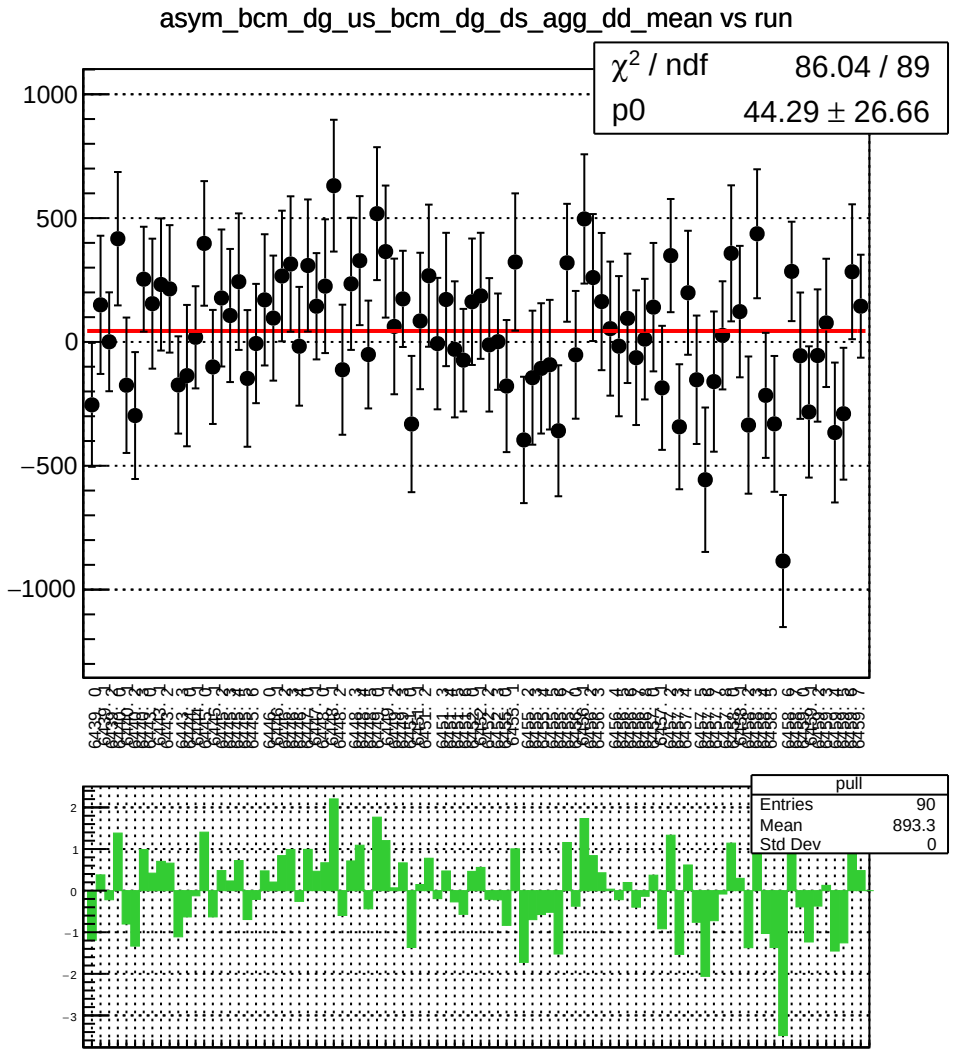

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 2.508e+04 / 89
p0 197.1 ± 0.1487
450
400
350
300
250
200
150

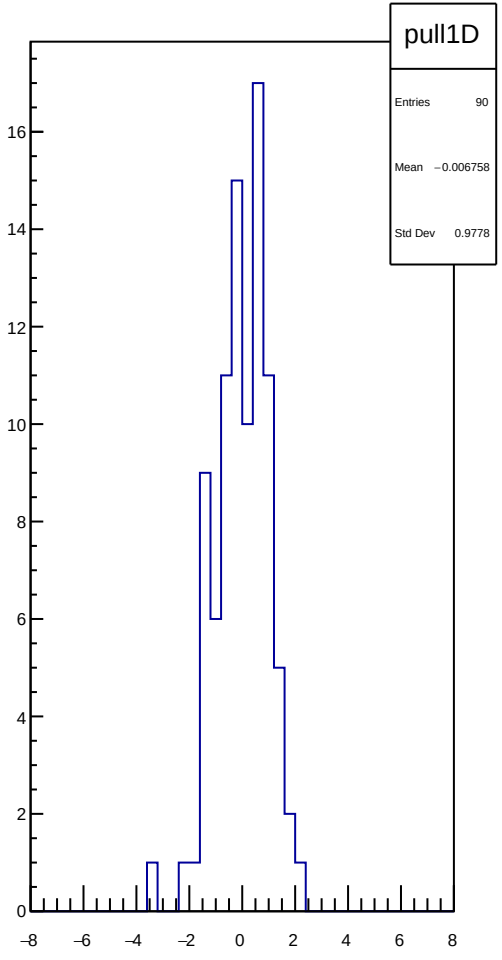

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 88.75 / 89
p0 −14.41± 17.82
pull
Entries 90
Mean 58.14
Std Dev 83.43
pull1D
Entries 90
Mean 0.01386
Std Dev 0.9929

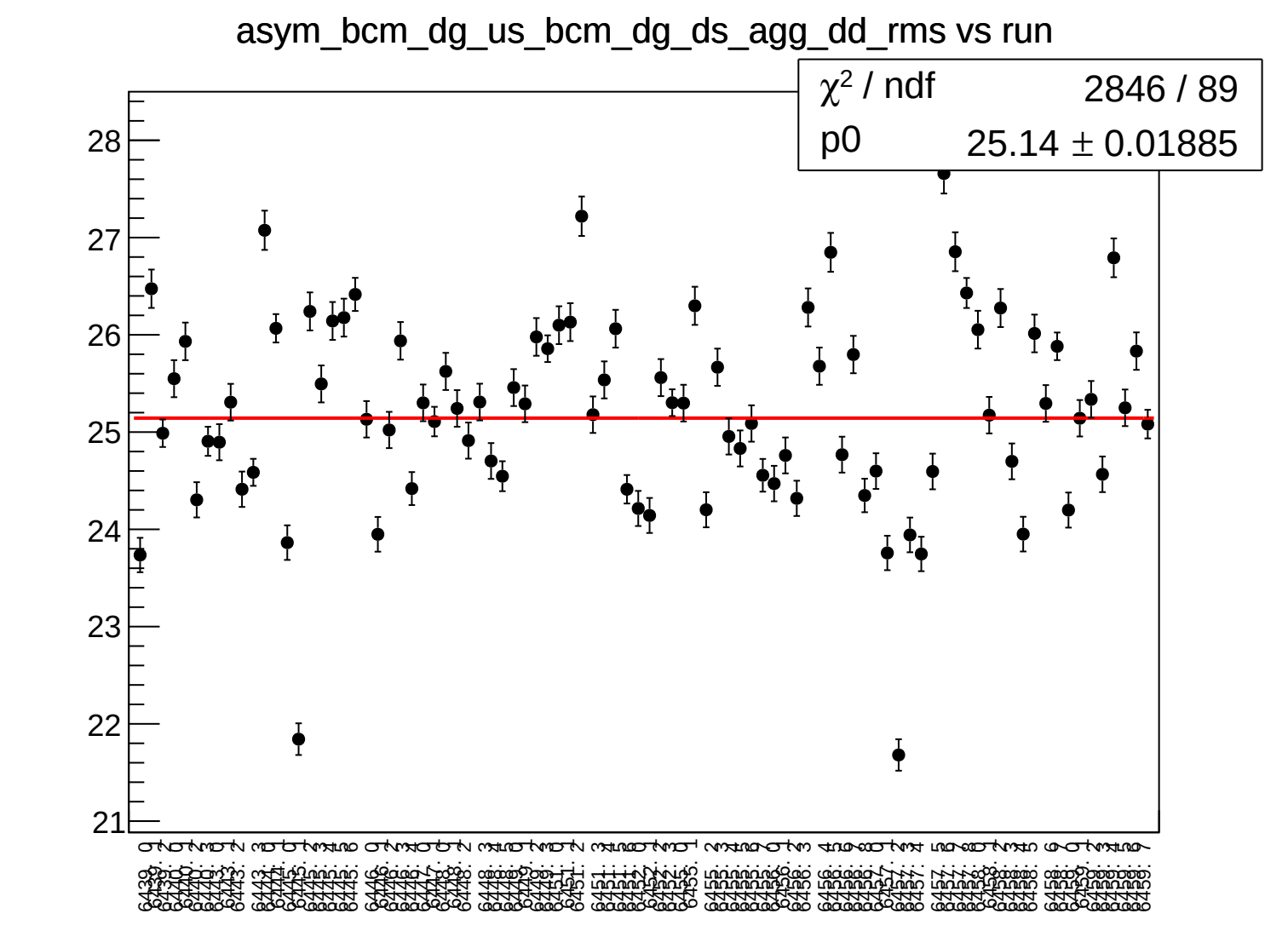

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 4587 / 89
p0 16.8 ± 0.0126
20
19
18
17
16

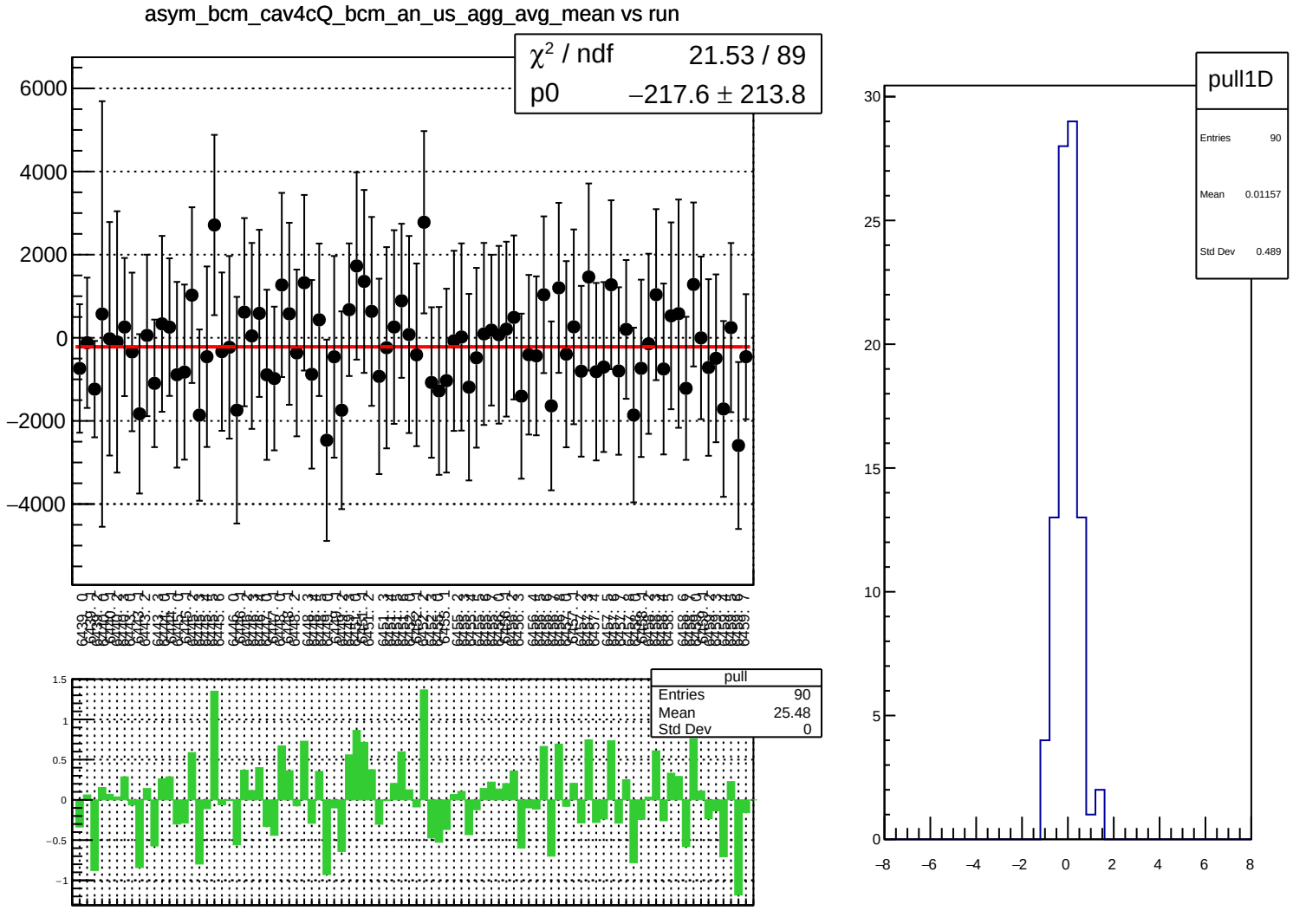

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 22.64 / 89
p0 −266.1 ± 212.6
6000
4000
2000
0
−2000
−4000
pull
Entries 90
Mean −52.07
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 90
Mean 0.01127
Std Dev 0.5014
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

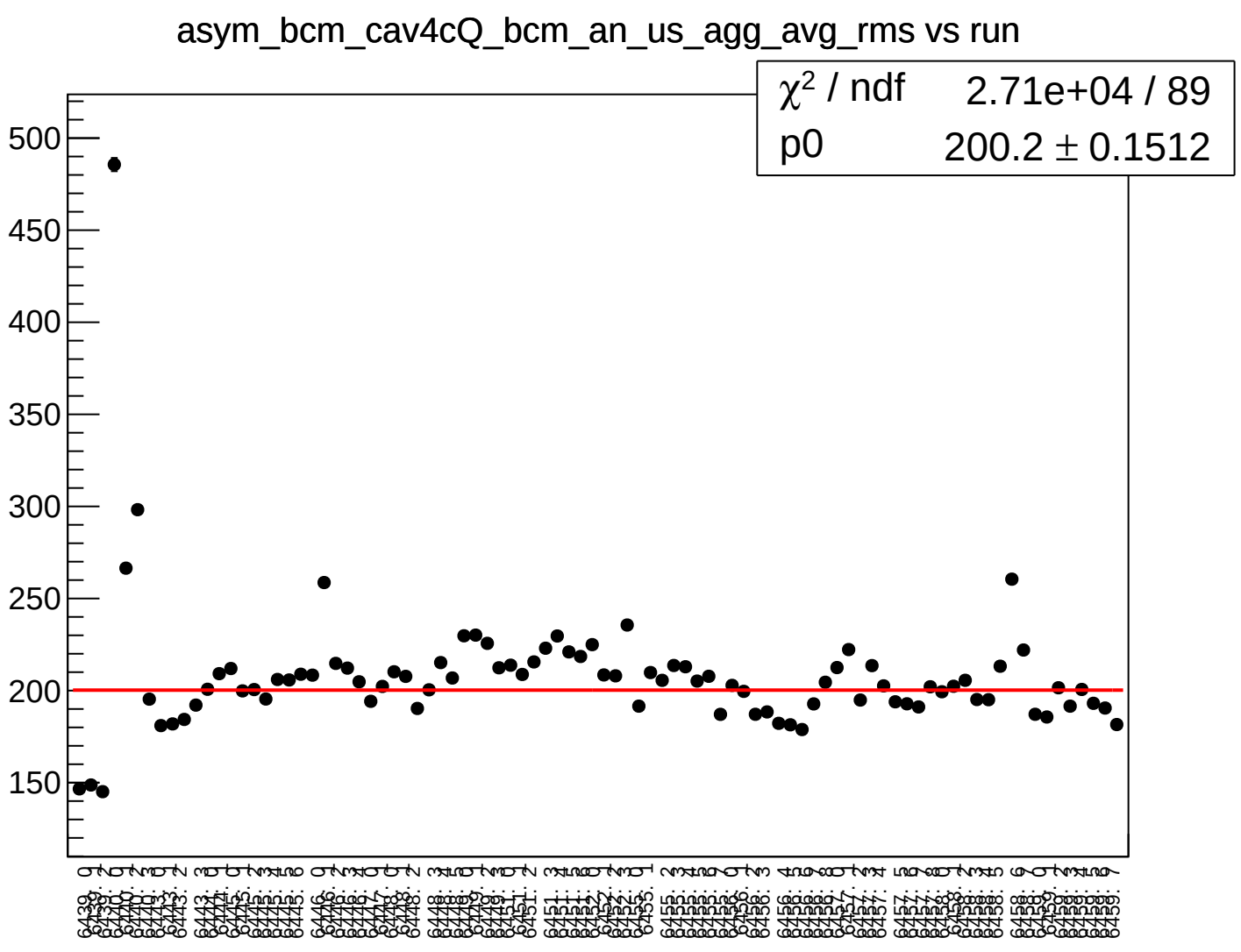

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 2.464e+04 / 89
p0 199.3 ± 0.1503
450
400
350
300
250
200
150

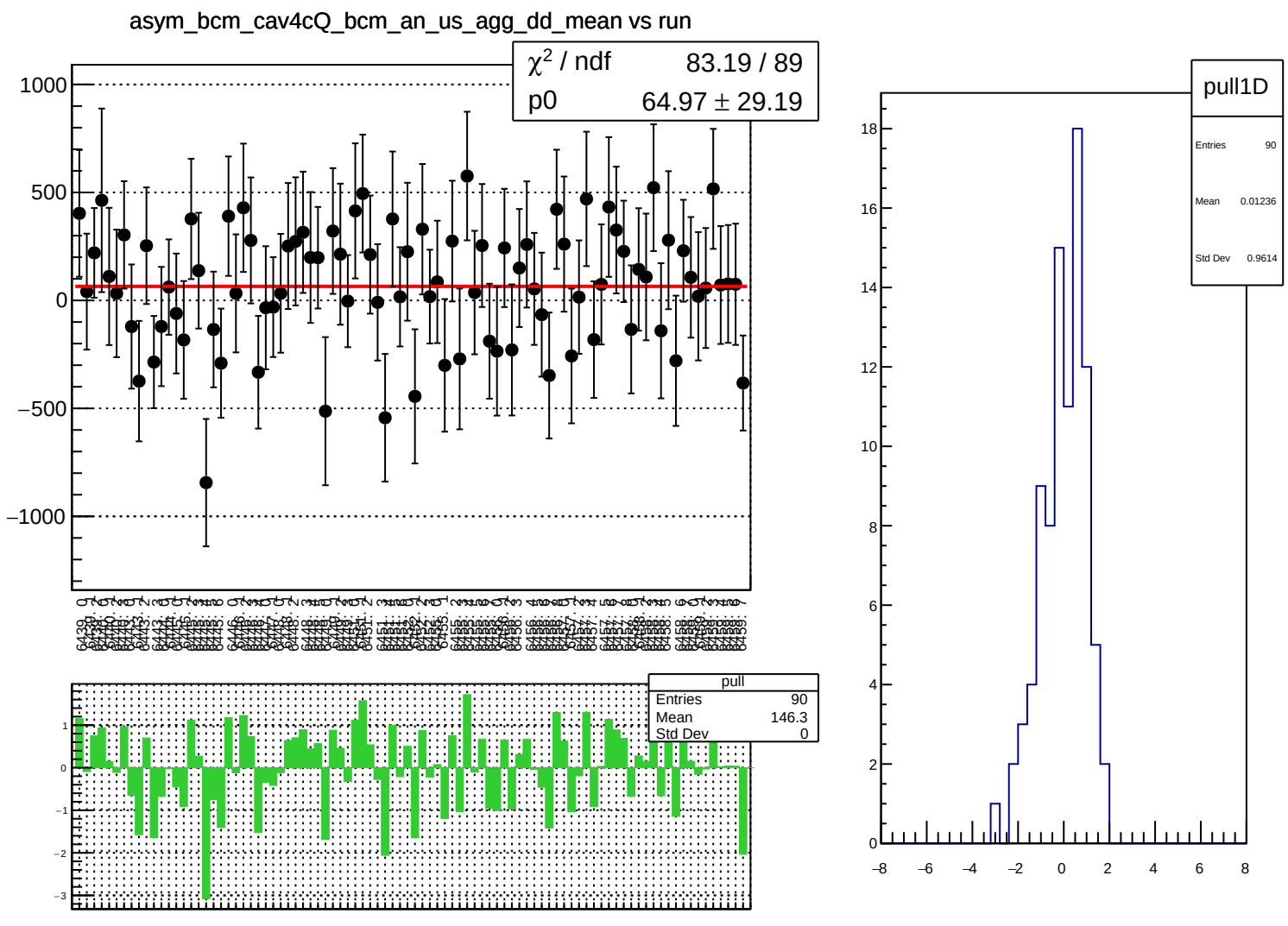

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 86.04 / 89
p0 44.29 ± 26.66
1000
500
0
−500
−1000
pull
Entries 90
Mean 893.3
Std Dev 0
2
1
0
−1
−2
−3

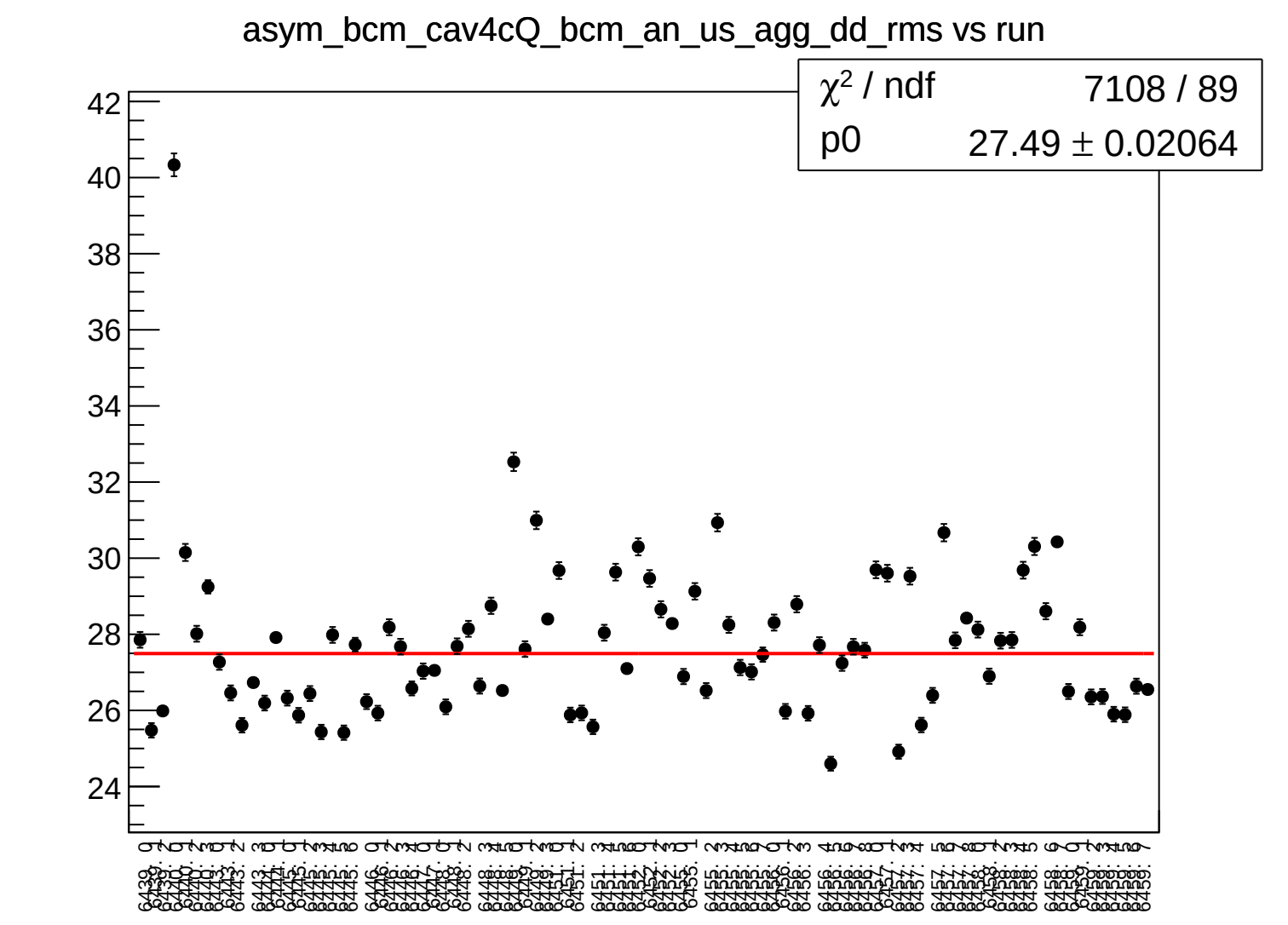

pull1D
Entries 90
Mean −0.006758
Std Dev 0.9778
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

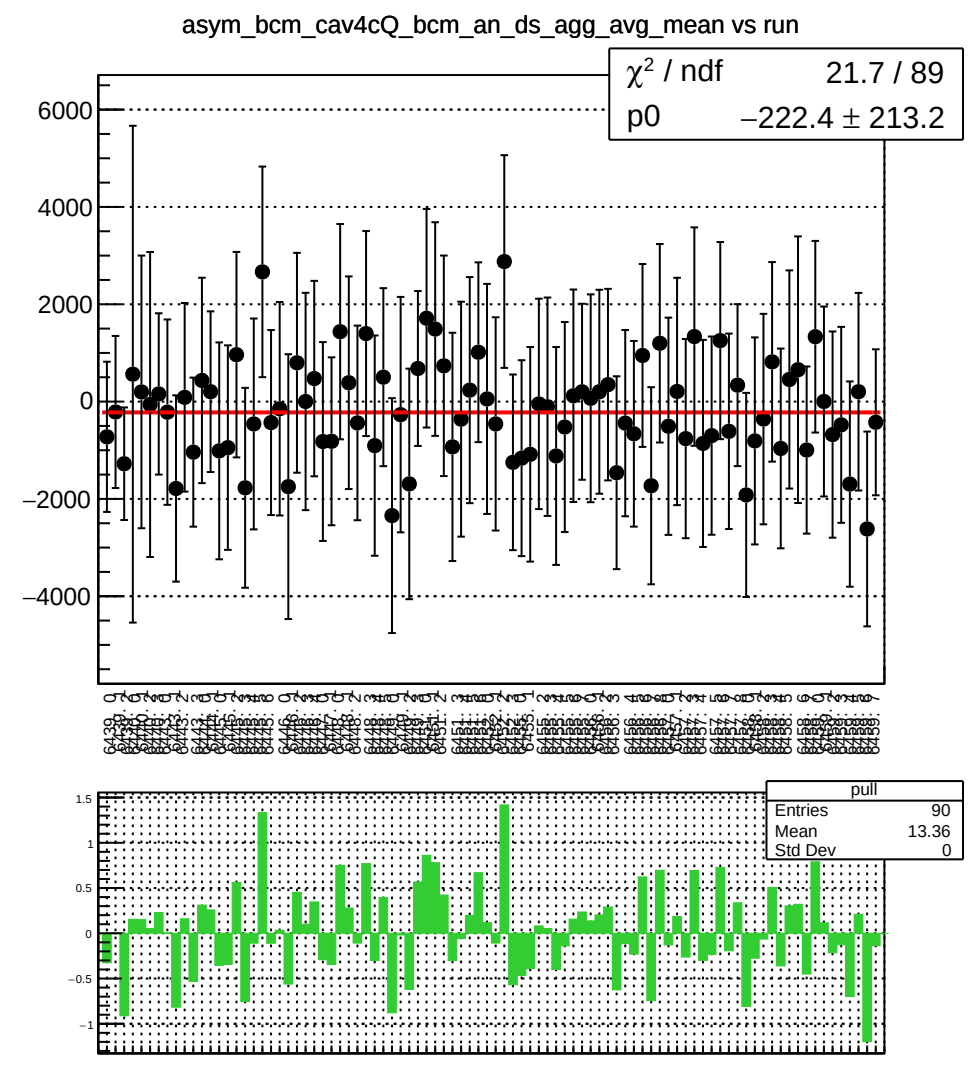

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2846 / 89
p0 25.14 ± 0.01885
28
27
26
25
24
23
22
21

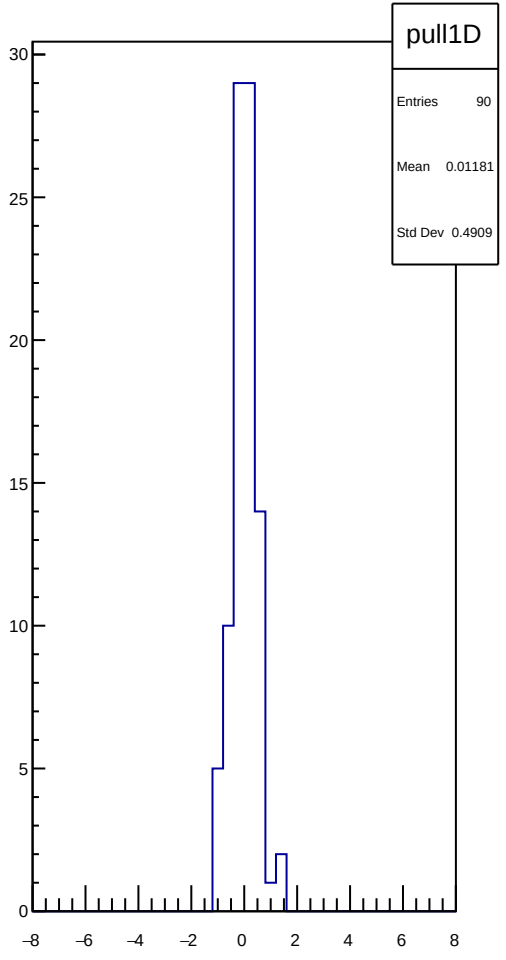

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 21.53 / 89
p0 −217.6 ± 213.8
6000
4000
2000
0
−2000
−4000
pull
Entries 90
Mean 25.48
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 90
Mean 0.01157
Std Dev 0.489
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

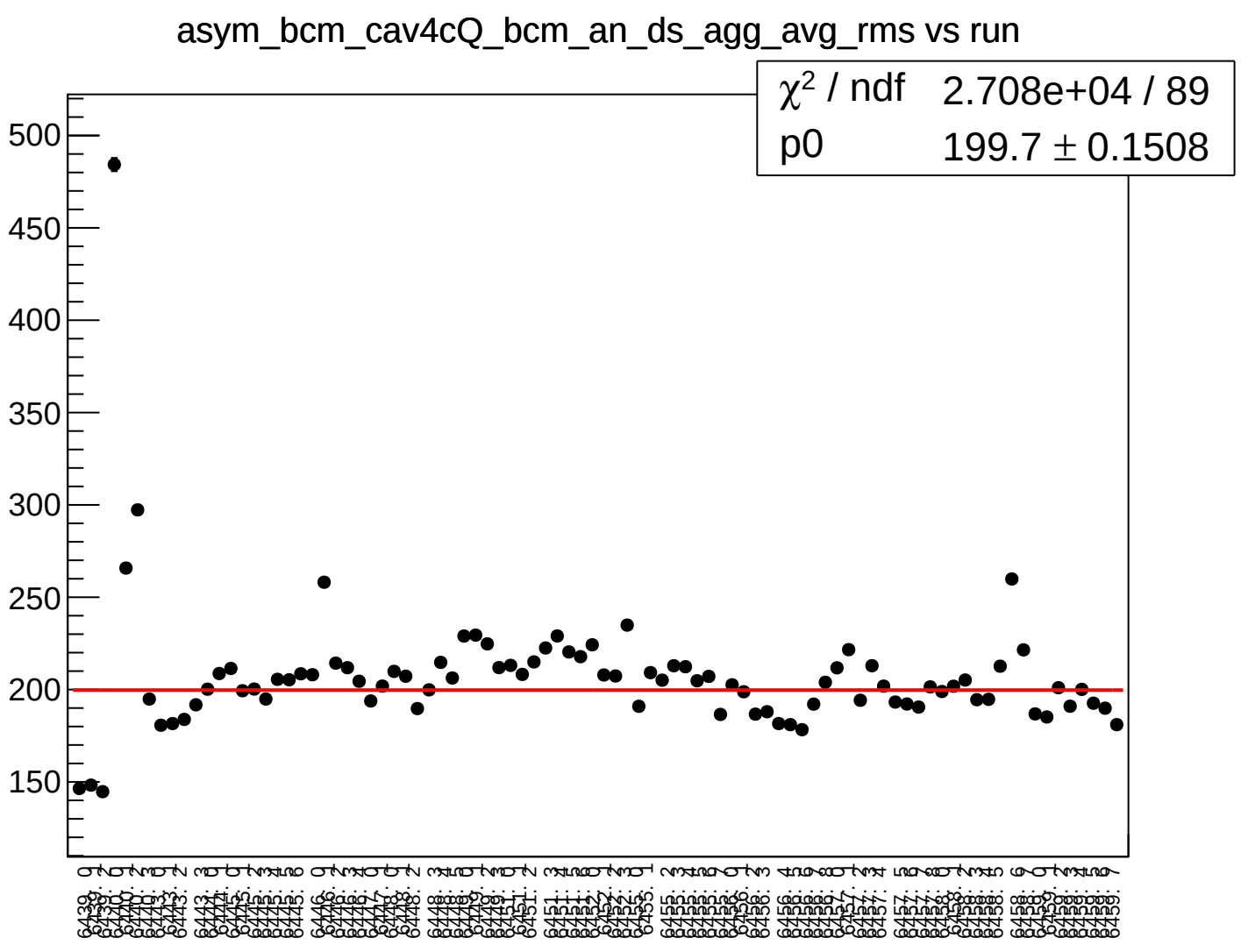

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 2.71e+04 / 89
p0 200.2 ± 0.1512
500
450
400
350
300
250
200
150

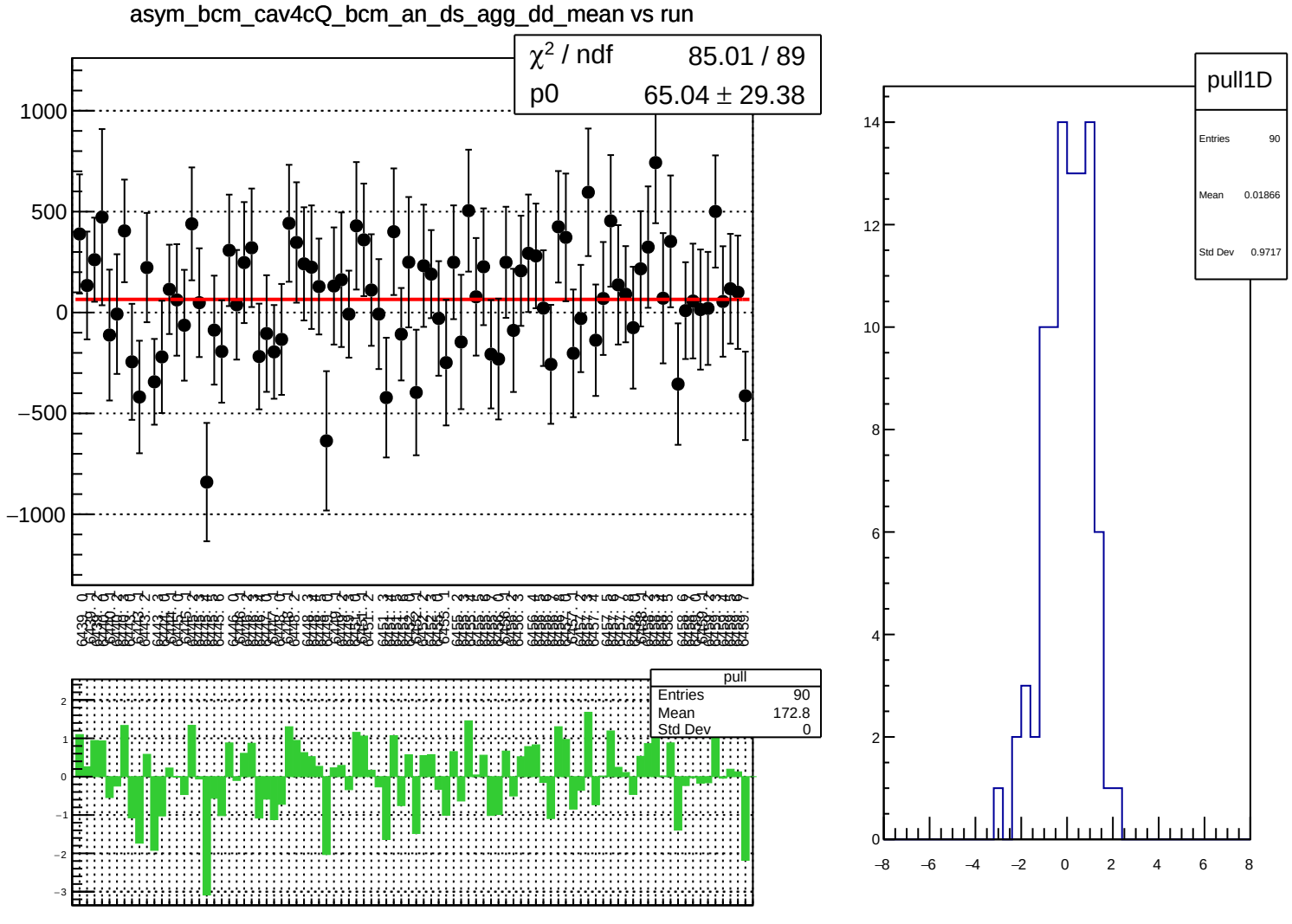

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 83.19 / 89
p0 64.97 ± 29.19
1000
500
0
−500
−1000
pull
Entries 90
Mean 146.3
Std Dev 0
pull1D
Entries 90
Mean 0.01236
Std Dev 0.9614
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

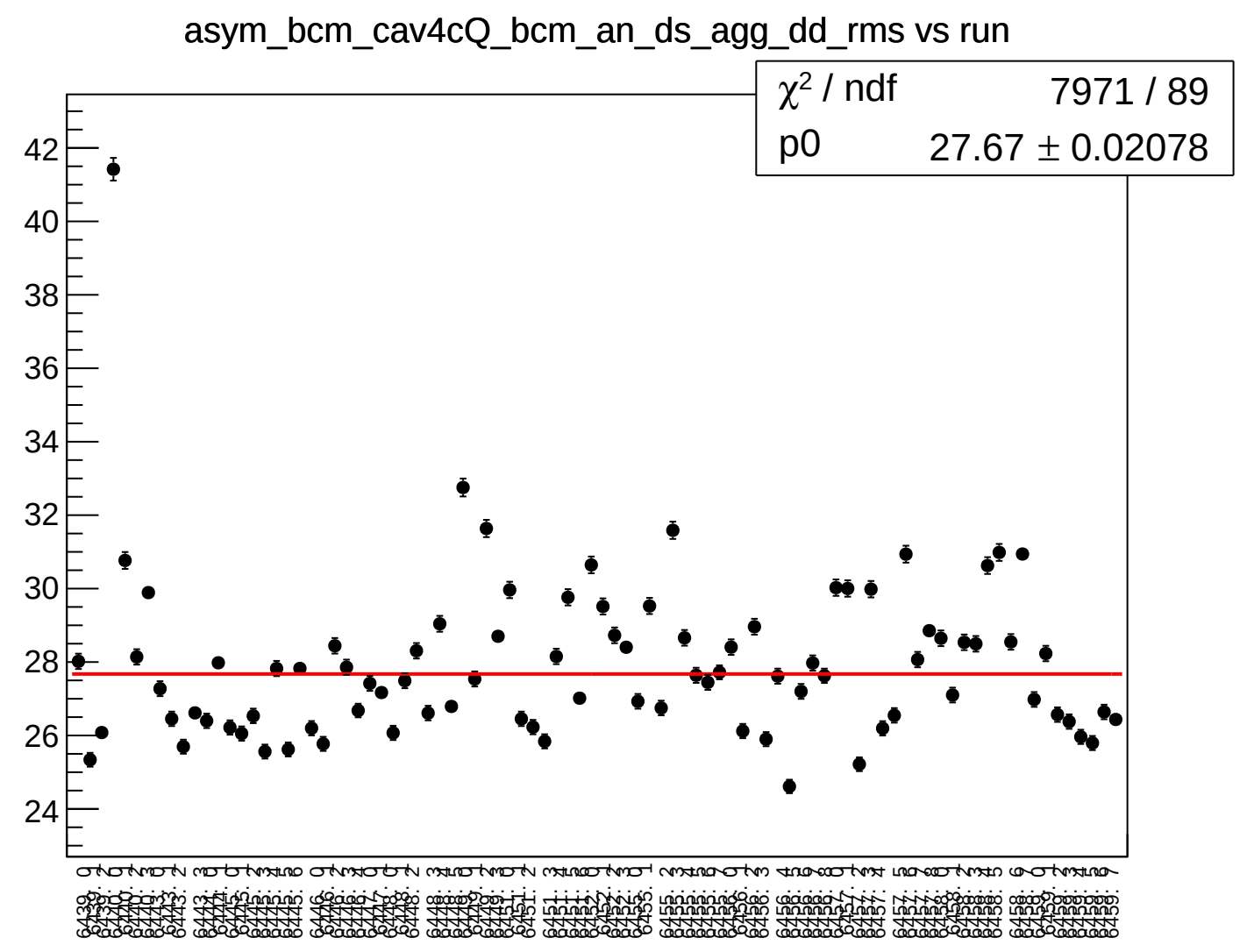

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 7108 / 89
p0 27.49 ± 0.02064
42
40
38
36
34
32
30
28
26
24

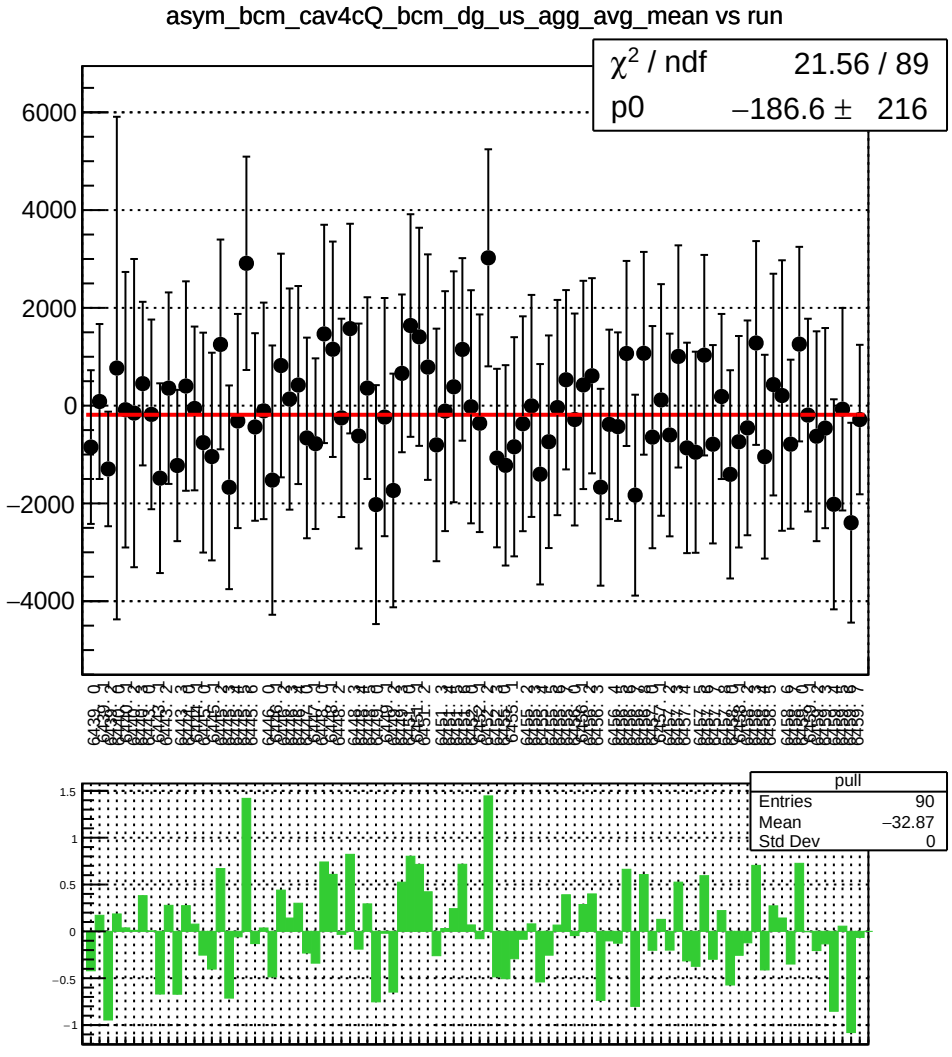

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 21.7 / 89
p0 −222.4 ± 213.2
6000
4000
2000
0
−2000
−4000
pull
Entries 90
Mean 13.36
Std Dev 0
1.5
1
0.5
0
−0.5
−1

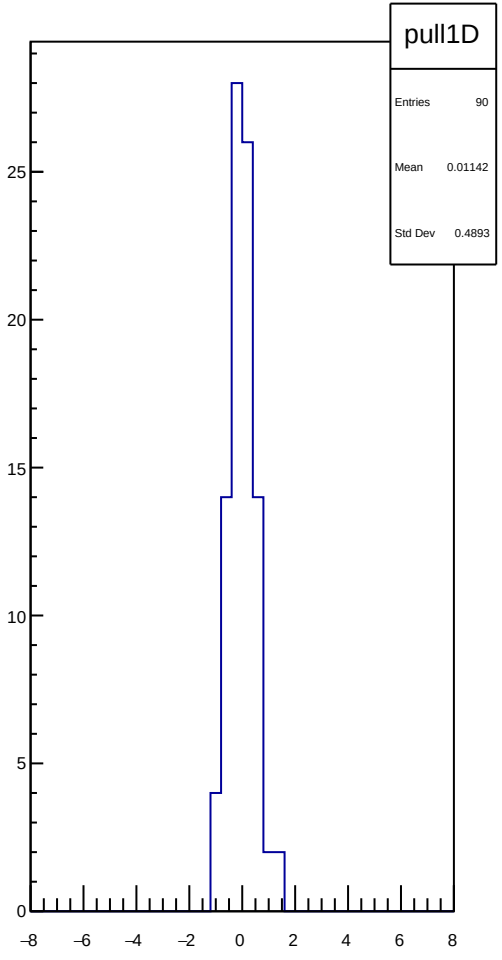

pull1D
Entries 90
Mean 0.01181
Std Dev 0.4909
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

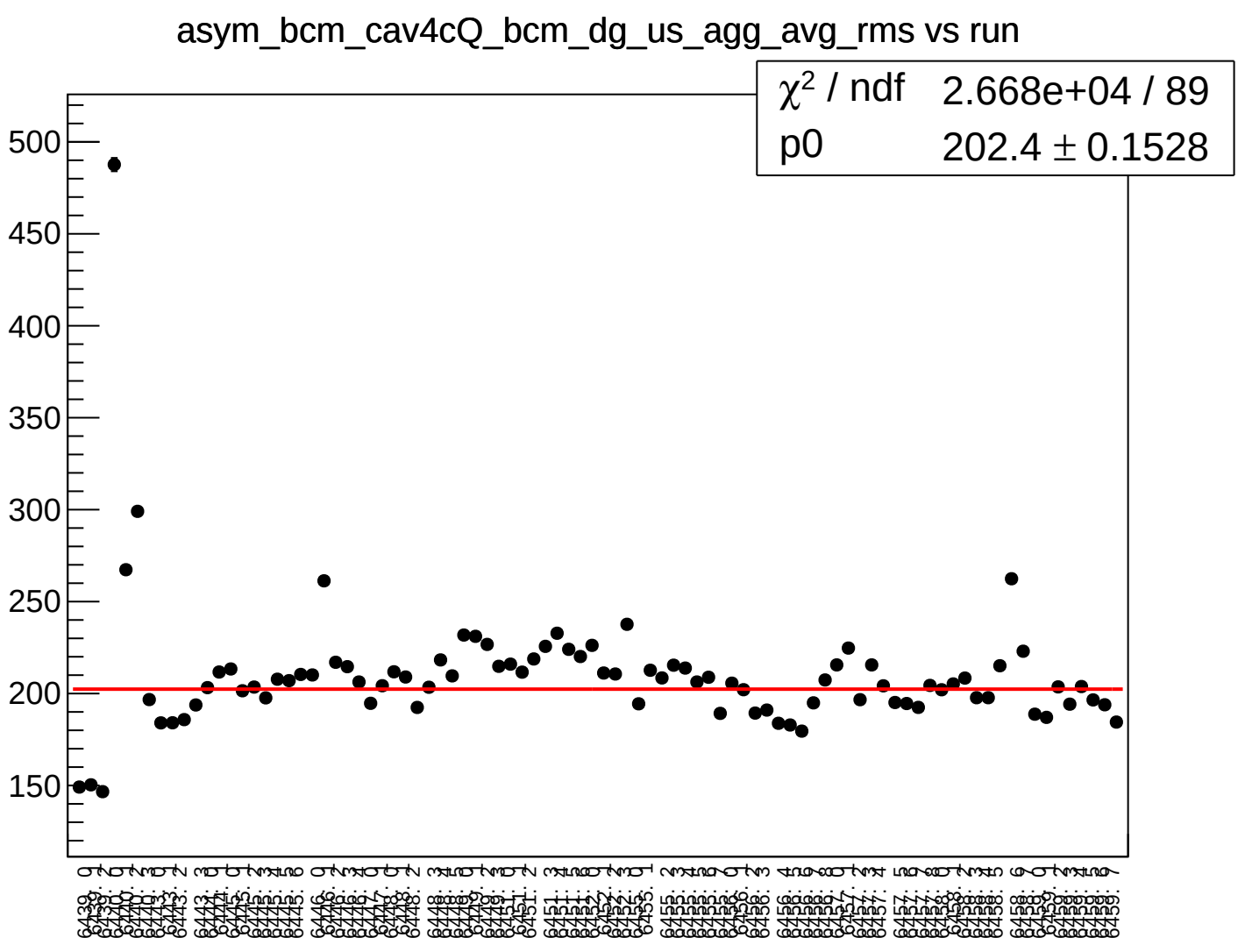

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2.708e+04 / 89
p0 199.7 ± 0.1508
500
450
400
350
300
250
200
150

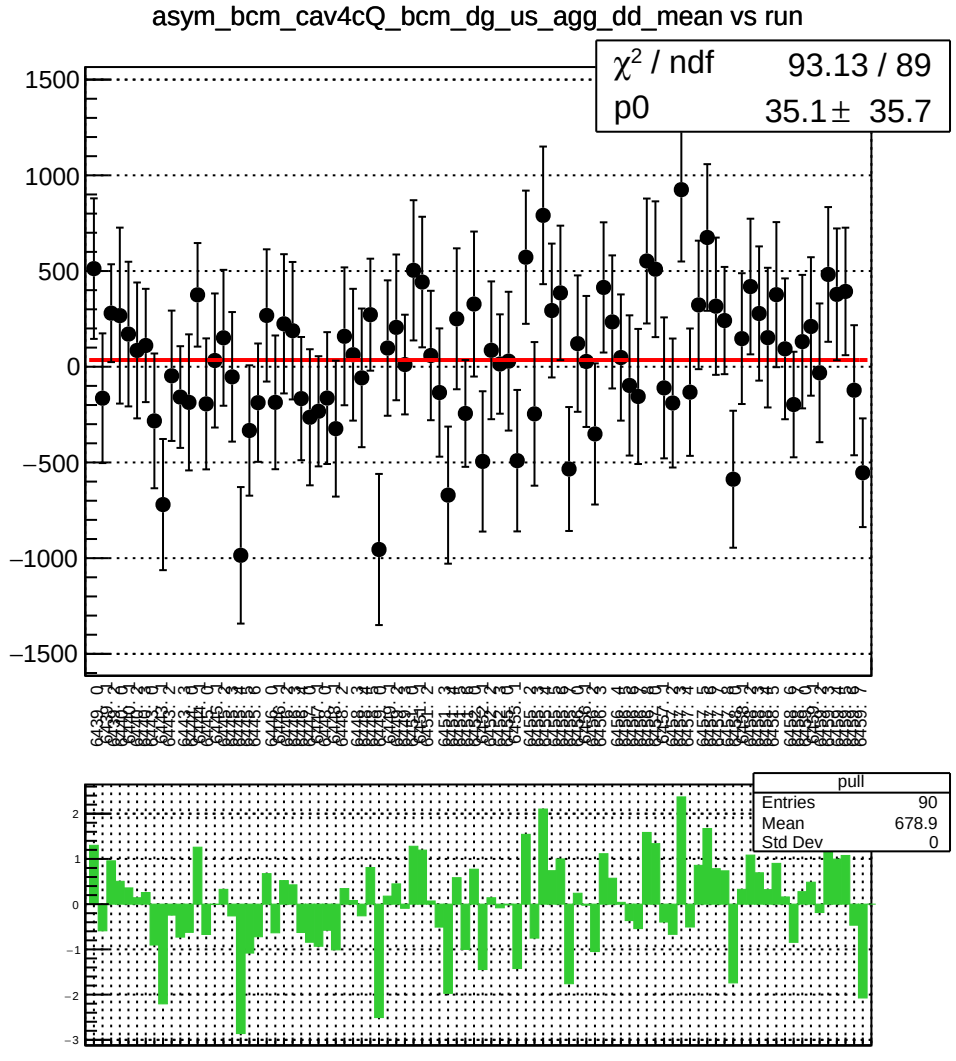

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 85.01 / 89
p0 65.04 ± 29.38
1000
500
0
−500
−1000
pull
Entries 90
Mean 172.8
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 90
Mean 0.01866
Std Dev 0.9717
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

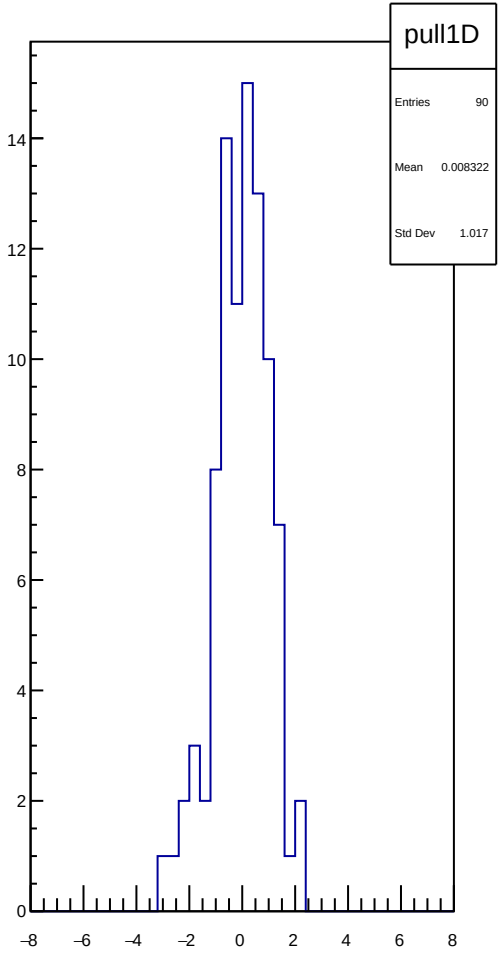

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 7971 / 89
p0 27.67 ± 0.02078
42
40
38
36
34
32
30
28
26
24

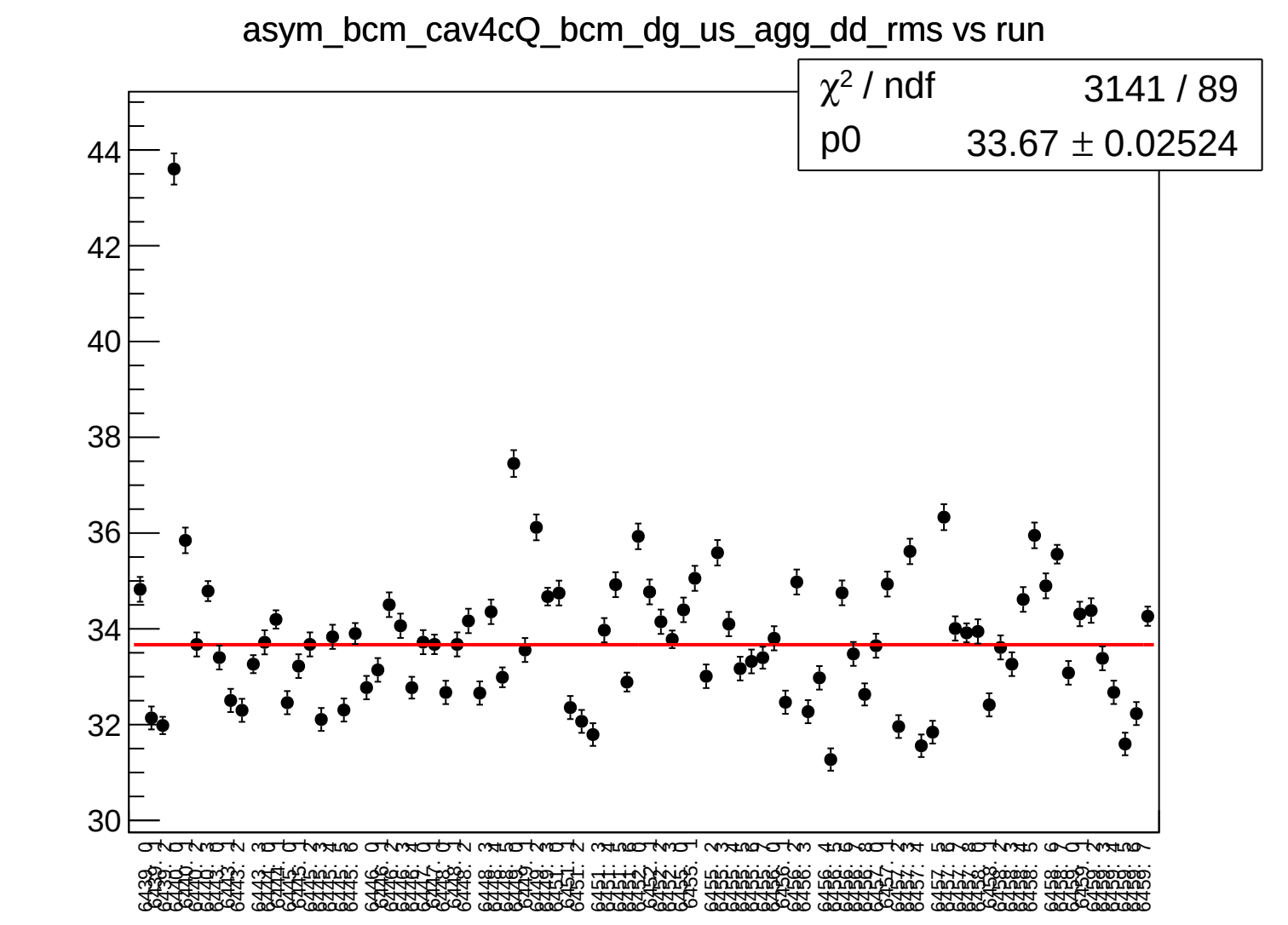

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 21.56 / 89
p0 −186.6 ± 216
6000
4000
2000
0
−2000
−4000
pull
Entries 90
Mean −32.87
Std Dev 0
1.5
1
0.5
0
−0.5
−1

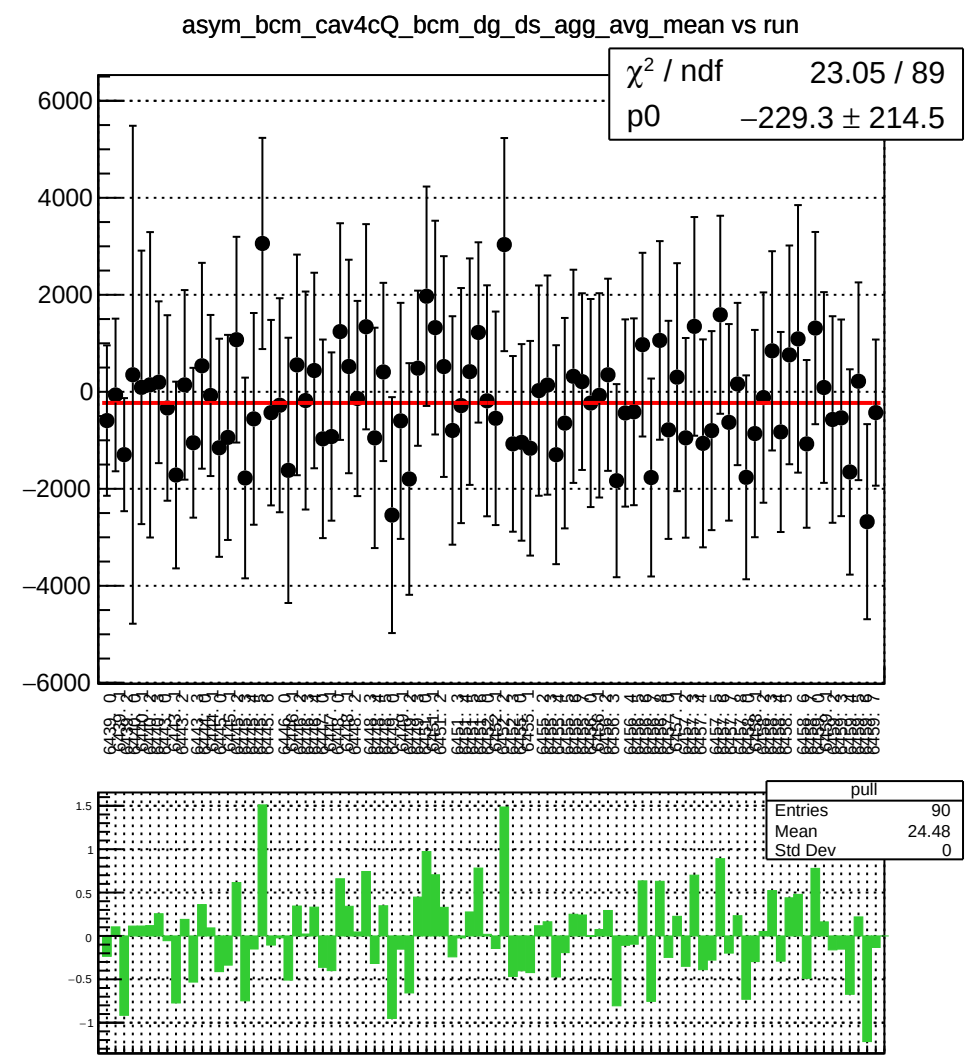

pull1D
Entries 90
Mean 0.01142
Std Dev 0.4893
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

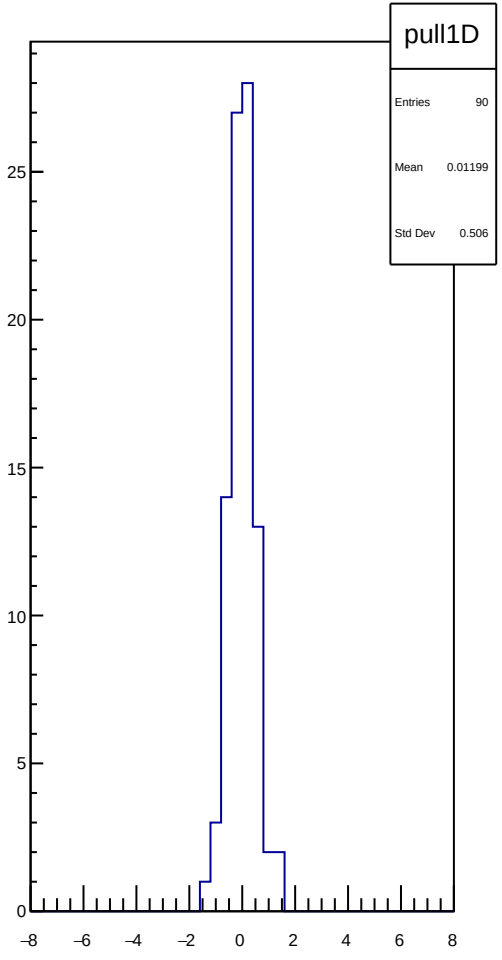

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 2.668e+04 / 89
p0 202.4 ± 0.1528
500
450
400
350
300
250
200
150

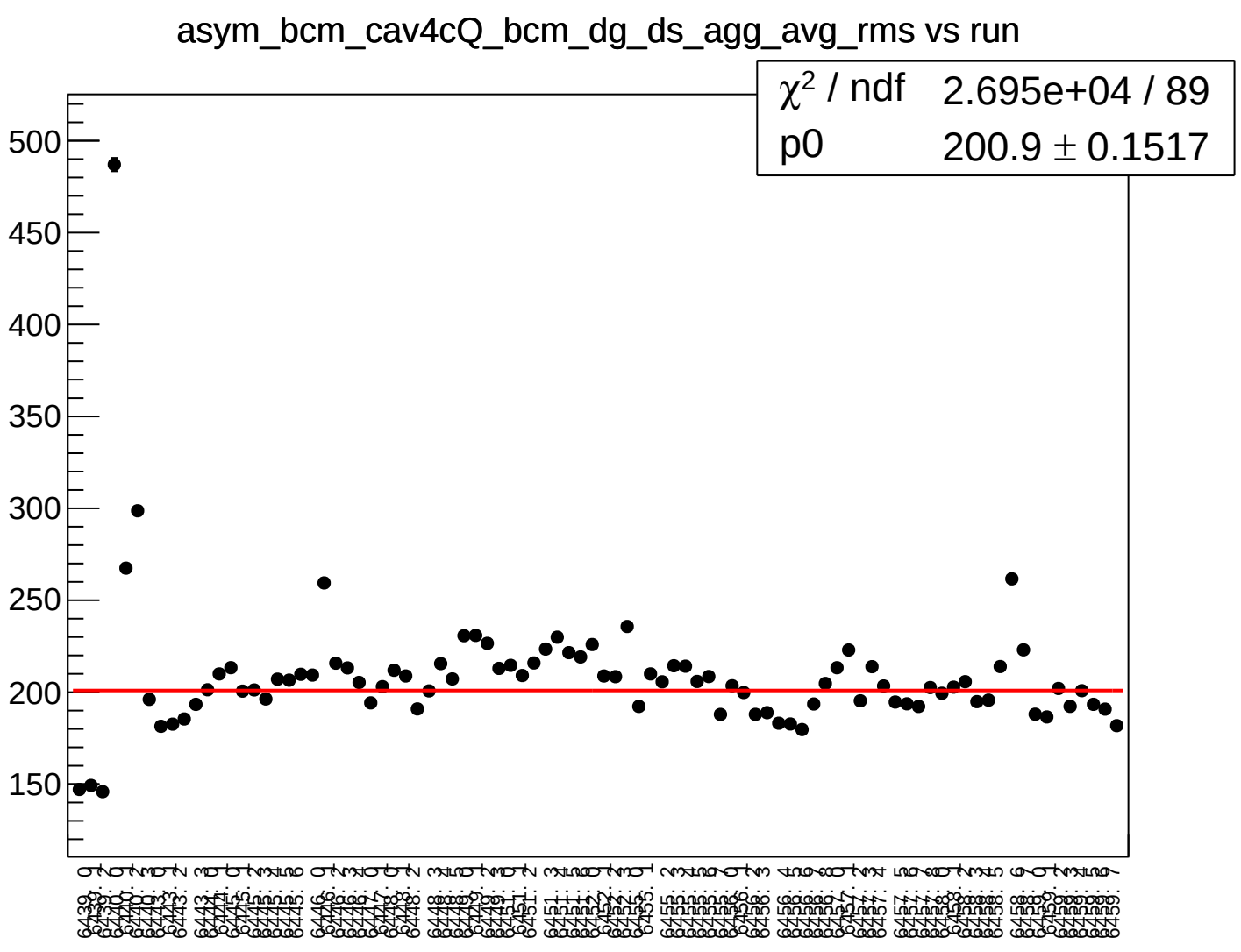

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 93.13 / 89
p0 35.1 ± 35.7
pull
Entries 90
Mean 678.9
Std Dev 0

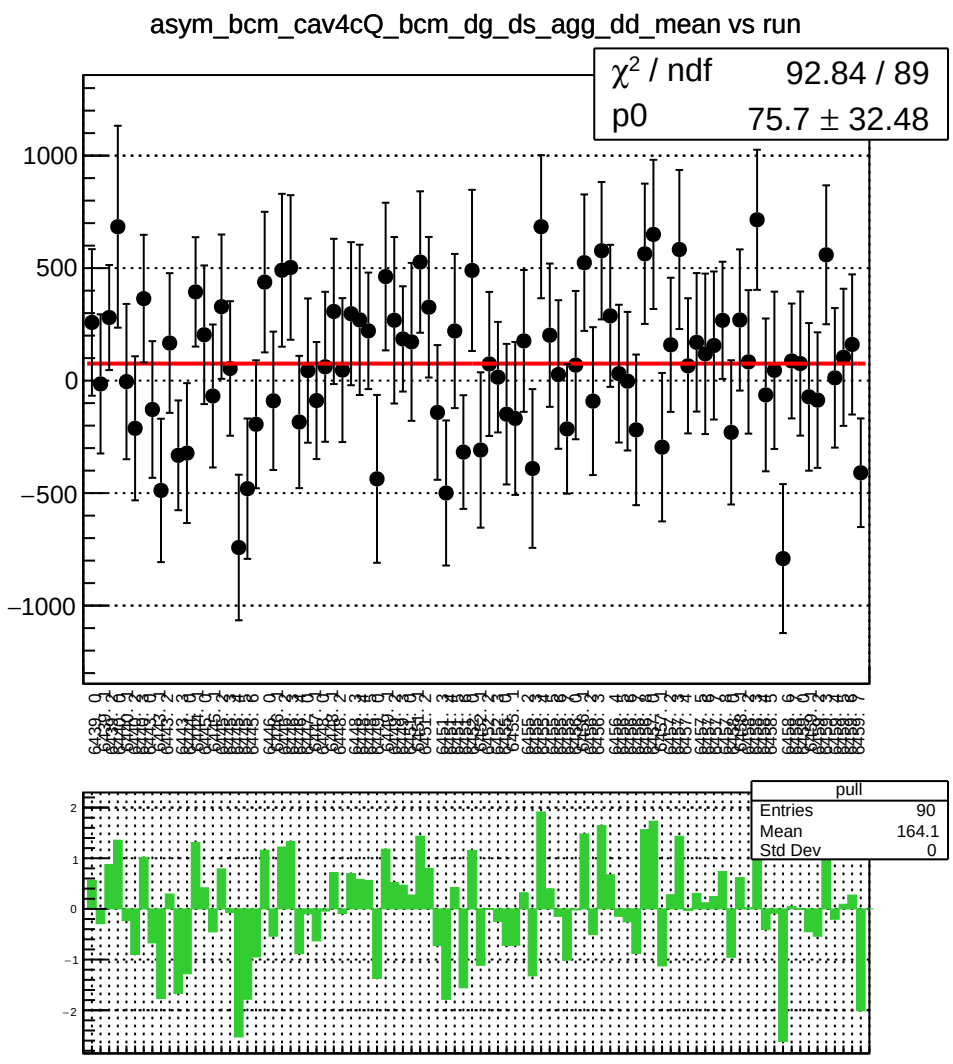

pull1D
Entries 90
Mean 0.008322
Std Dev 1.017

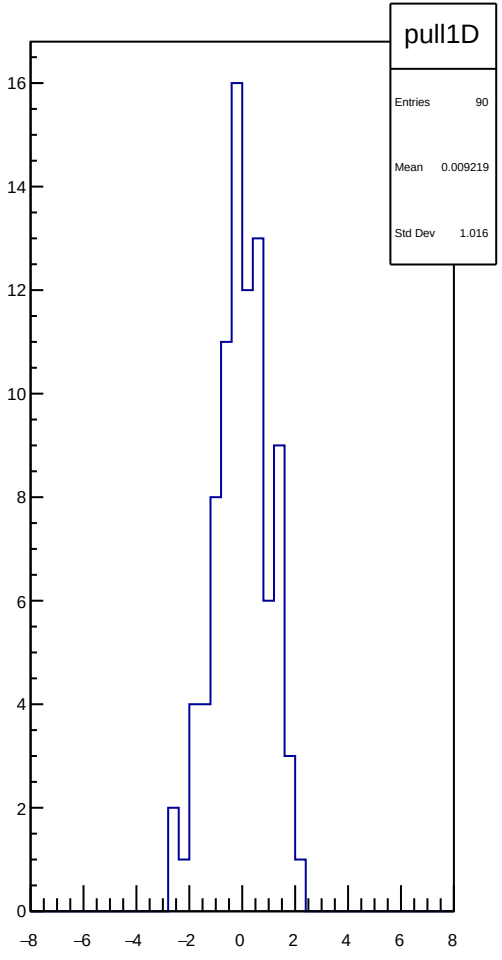

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 3141 / 89
p0 33.67 ± 0.02524
44
42
40
38
36
34
32
30

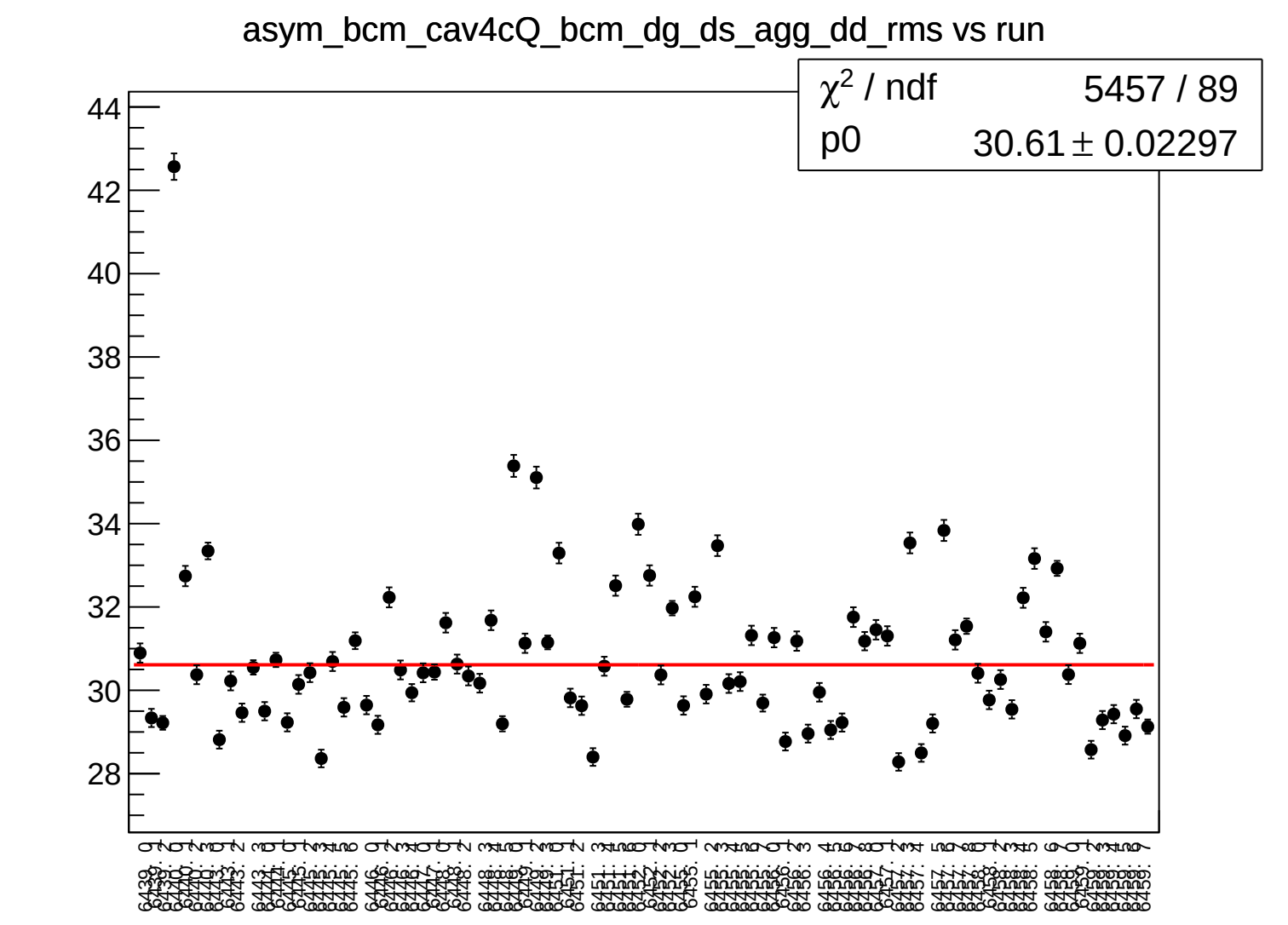

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 23.05 / 89
p0 −229.3 ± 214.5
pull
Entries 90
Mean 24.48
Std Dev 0

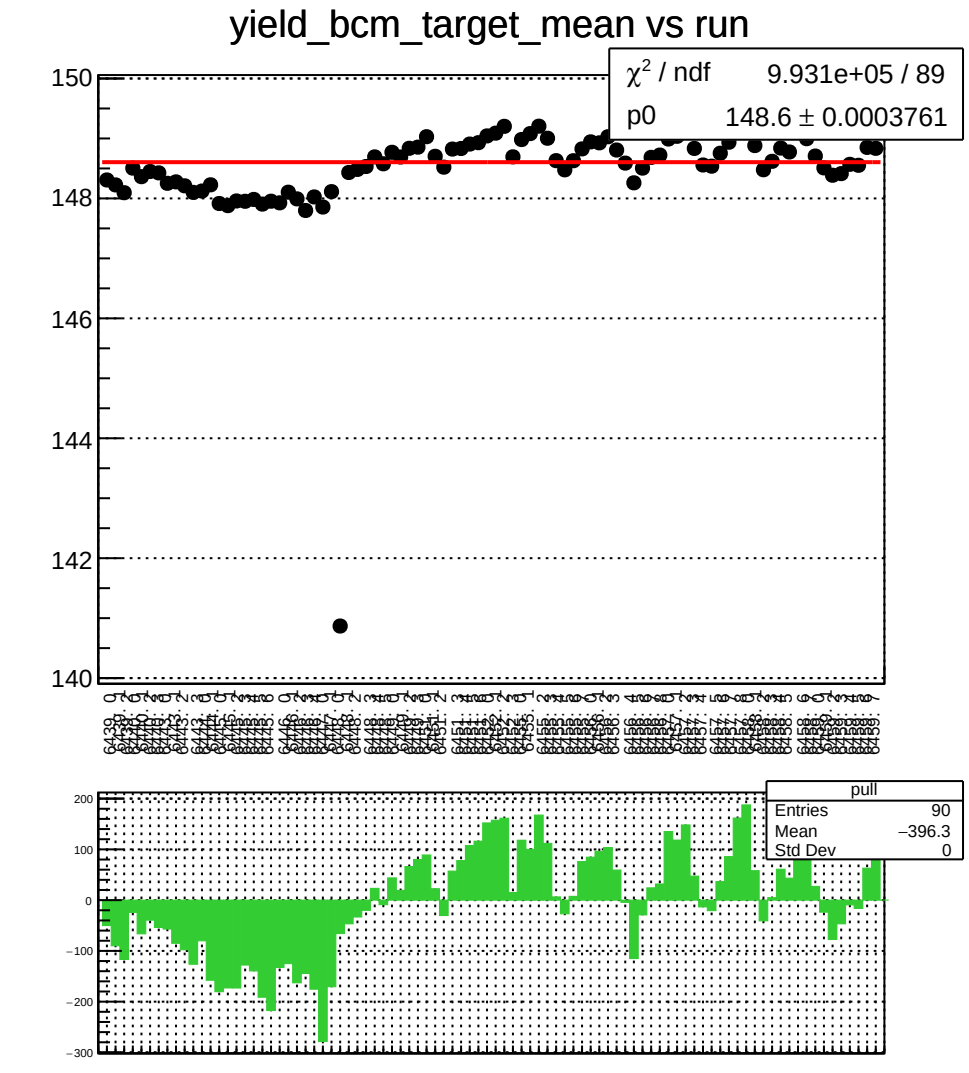

pull1D
Entries 90
Mean 0.01199
Std Dev 0.506

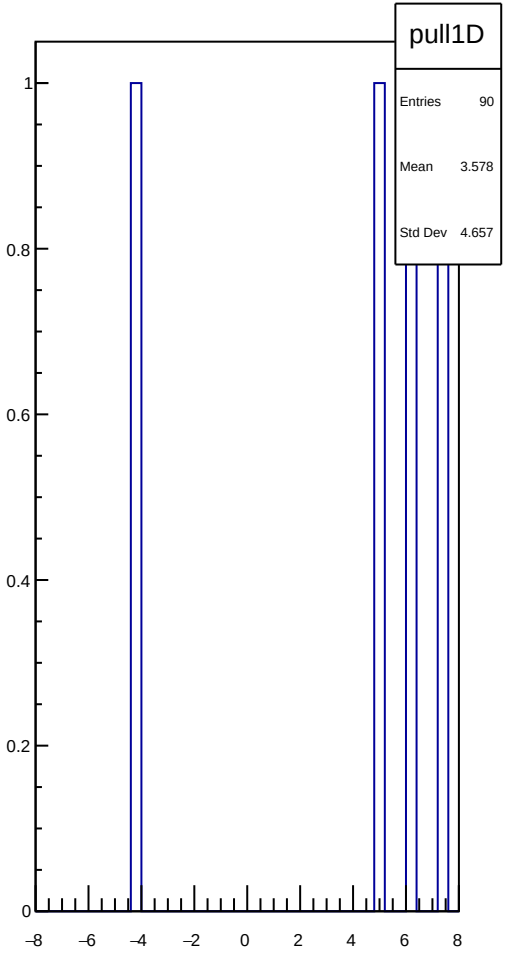

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 2.695e+04 / 89
p0 200.9 ± 0.1517
500
450
400
350
300
250
200
150

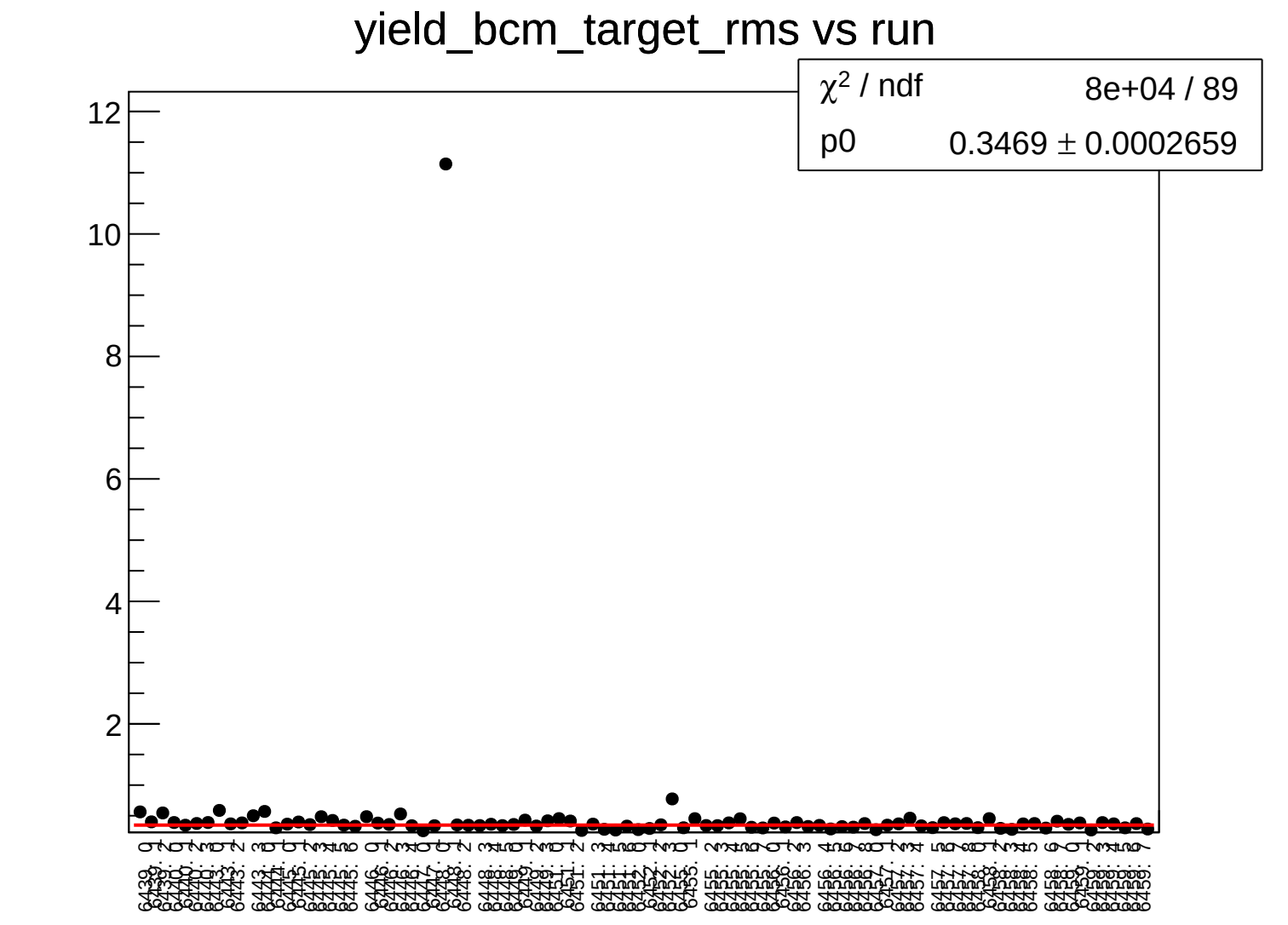

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 92.84 / 89
p0 75.7 ± 32.48
1000
500
0
−500
−1000
pull
Entries 90
Mean 164.1
Std Dev 0
2
1
0
−1
−2

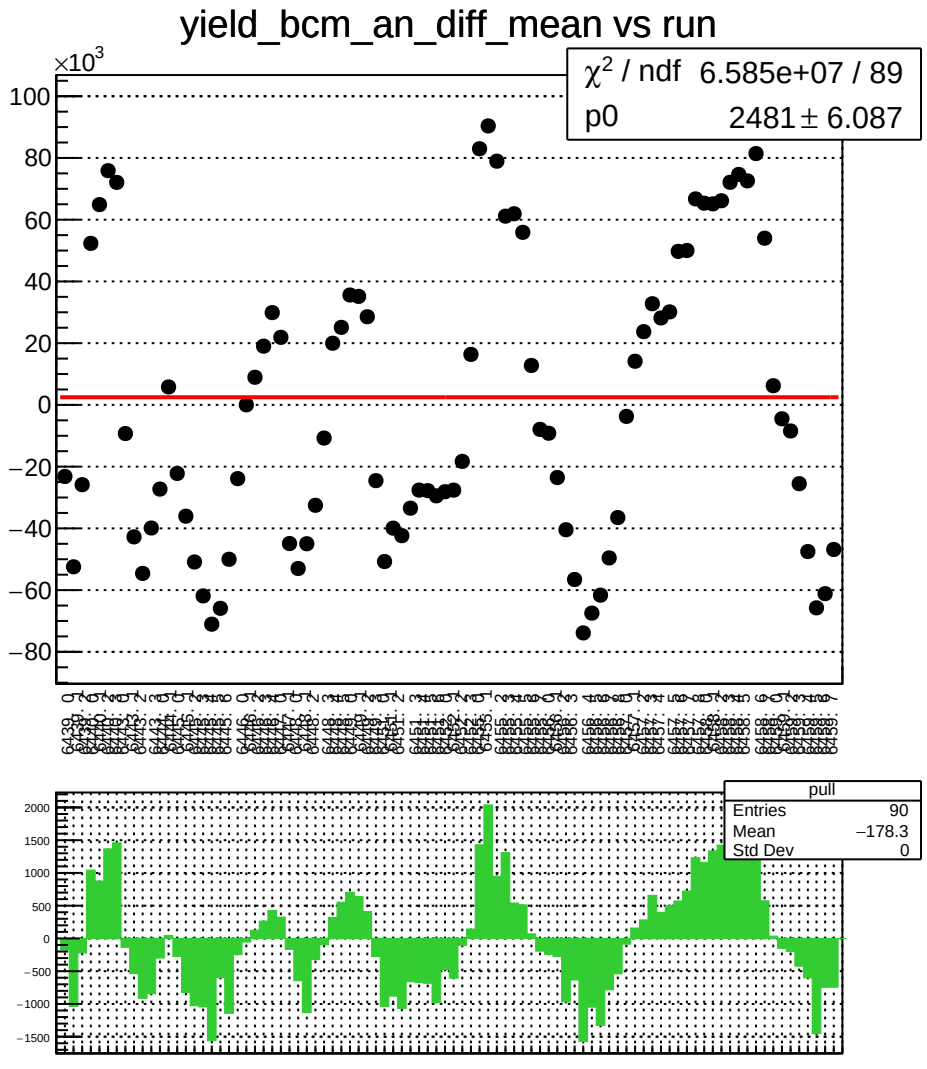

pull1D
Entries 90
Mean 0.009219
Std Dev 1.016
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

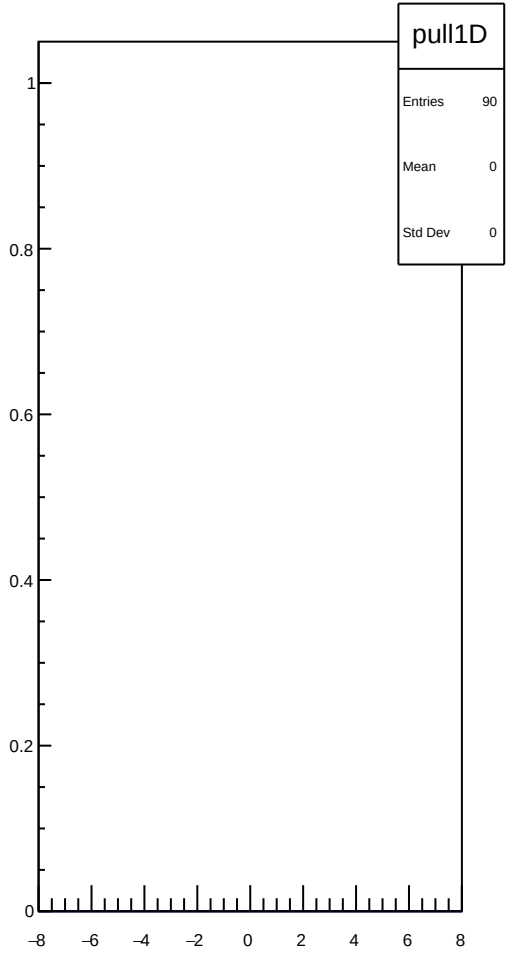

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 5457 / 89
p0 30.61 ± 0.02297
44
42
40
38
36
34
32
30
28

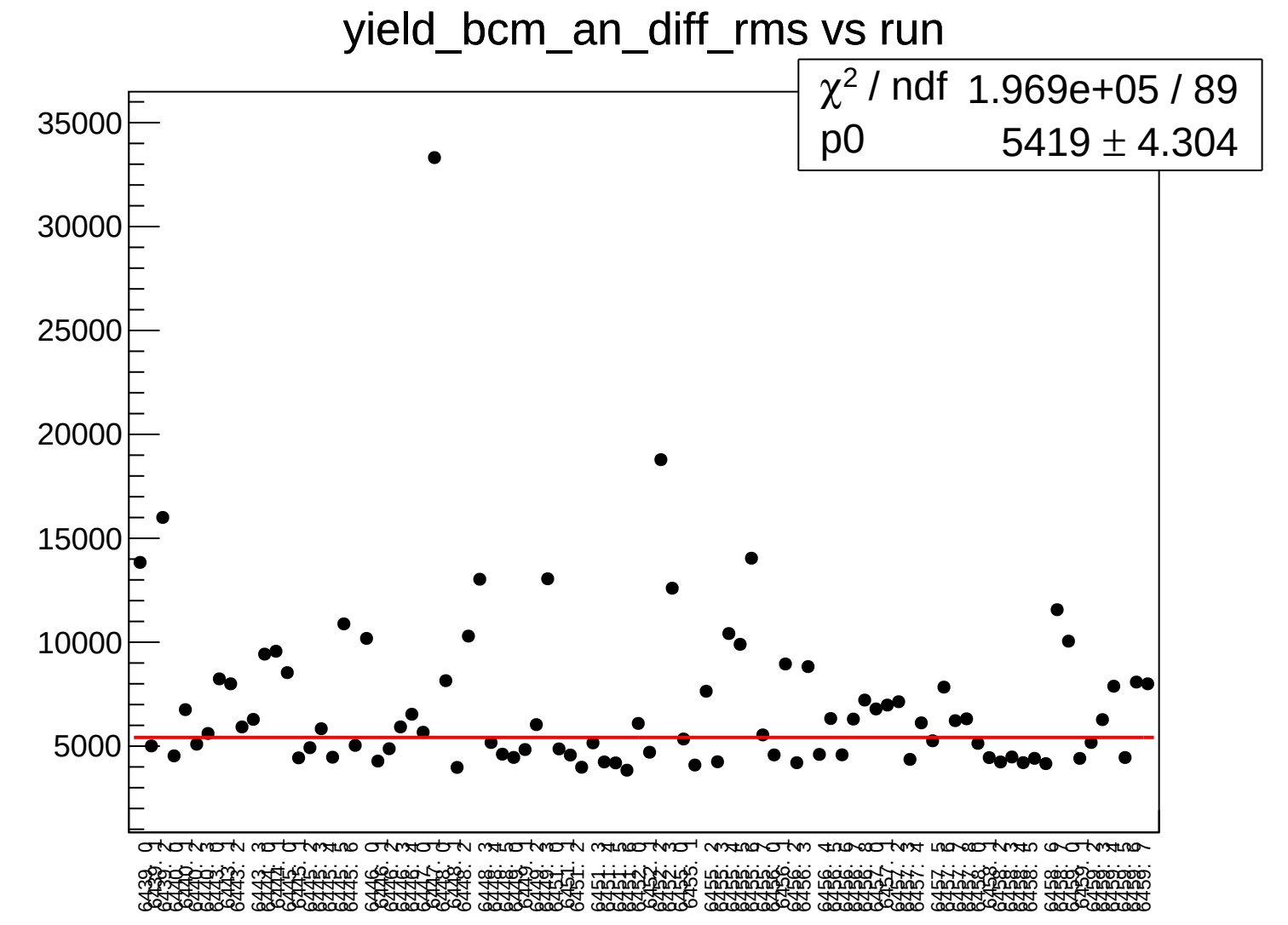

yield_bcm_target_mean vs run
χ² / ndf 9.931e+05 / 89
p0 148.6 ± 0.0003761
150
148
146
144
142
140
pull
Entries 90
Mean −396.3
Std Dev 0
200
100
0
−100
−200
−300

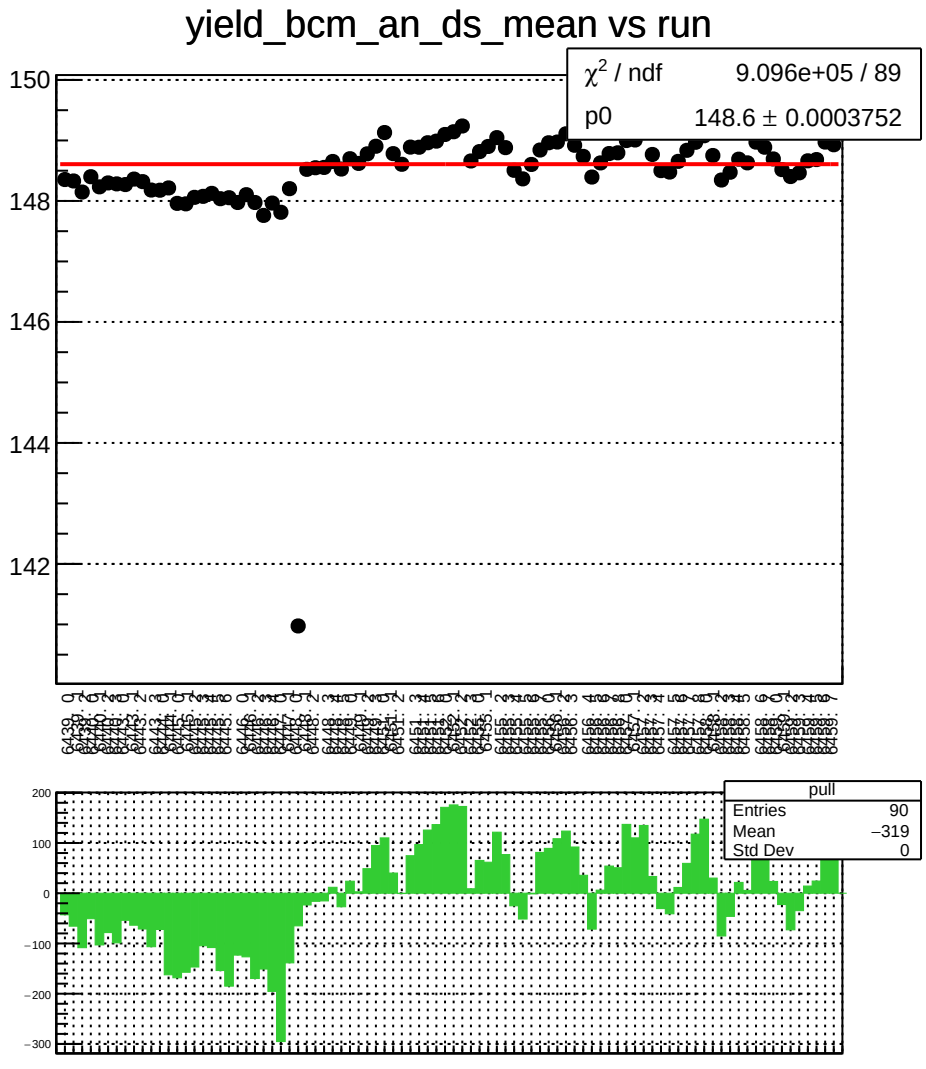

pull1D
Entries 90
Mean 3.578
Std Dev 4.657
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

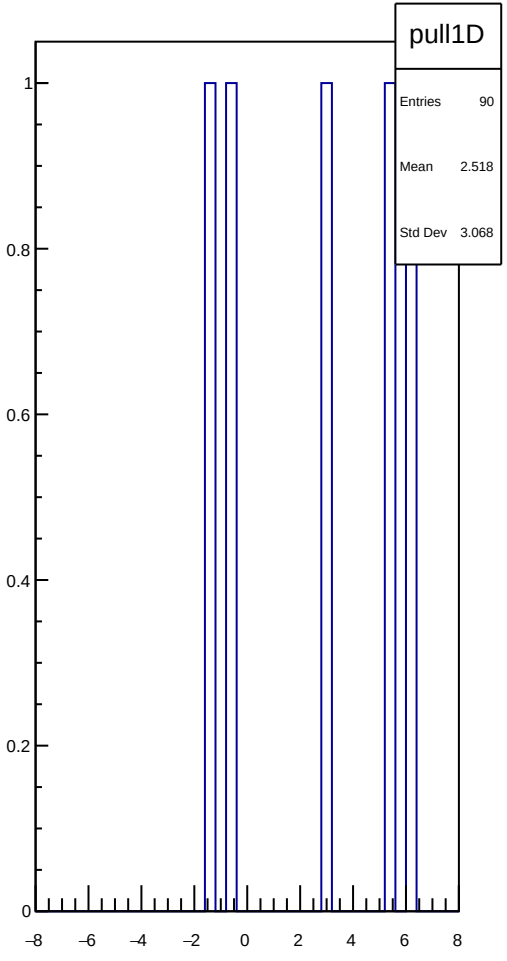

yield_bcm_target_rms vs run
χ² / ndf 8e+04 / 89
p0 0.3469 ± 0.0002659
12
10
8
6
4
2

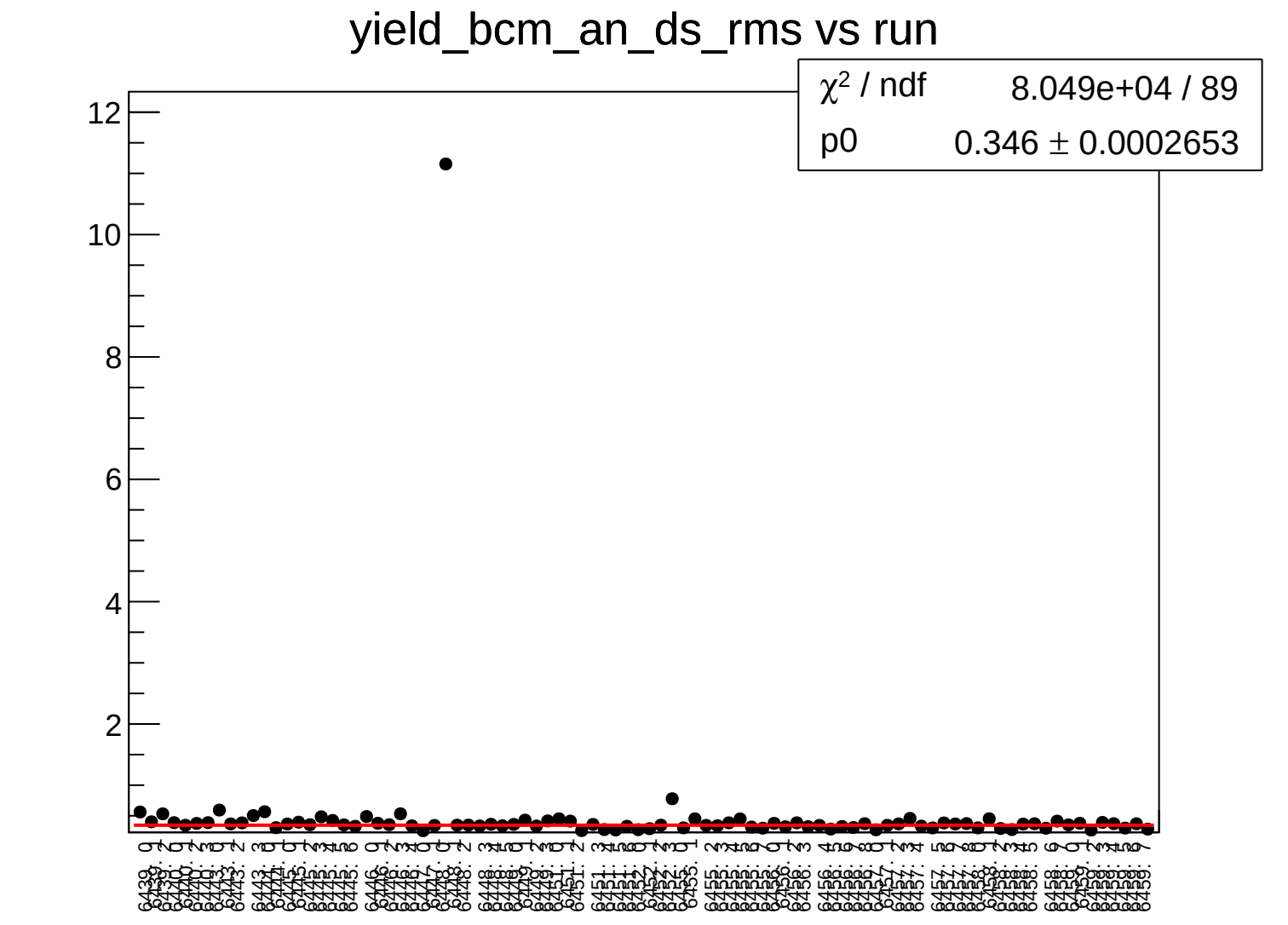

yield_bcm_an_diff_mean vs run
×10^3
χ² / ndf 6.585e+07 / 89
p0 2481 ± 6.087
100
80
60
40
20
0
−20
−40
−60
−80
pull
Entries 90
Mean −178.3
Std Dev 0
2000
1500
1000
500
0
−500
−1000
−1500

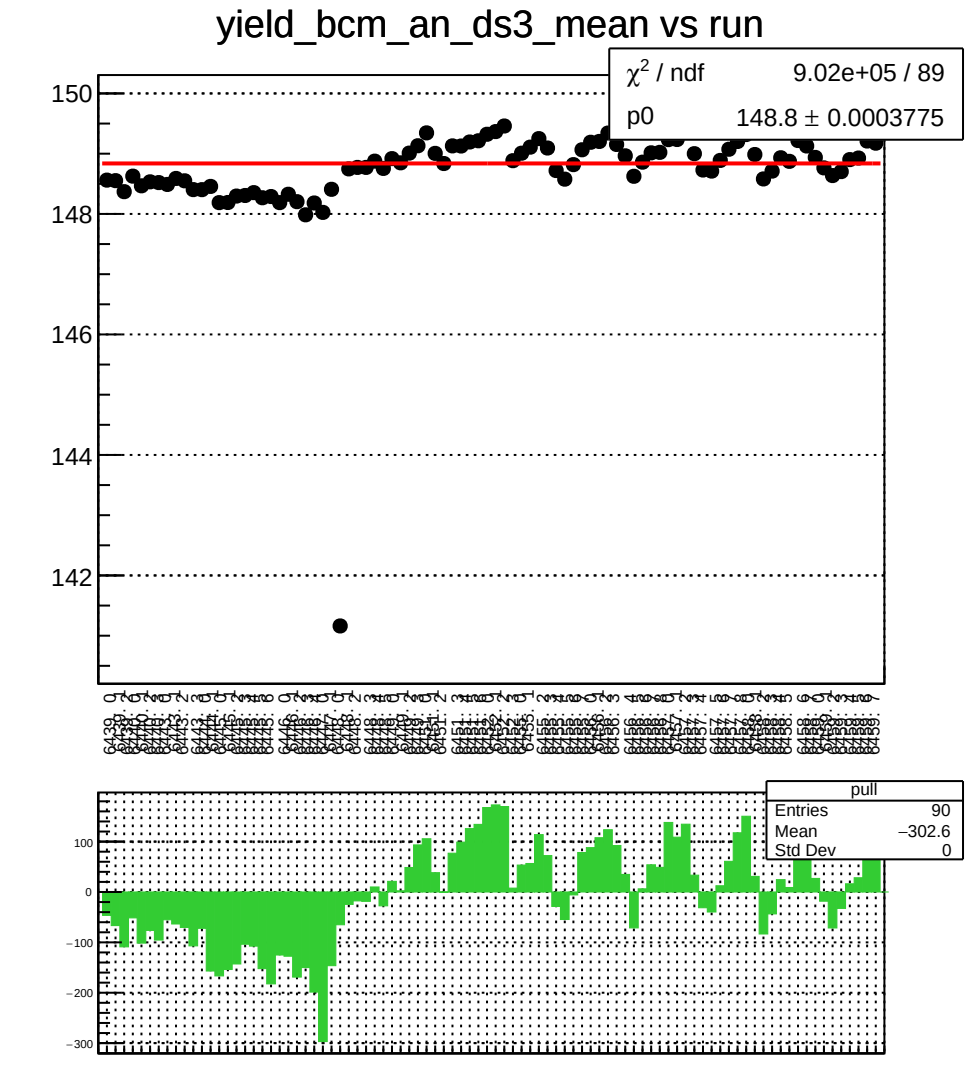

pull1D
Entries 90
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

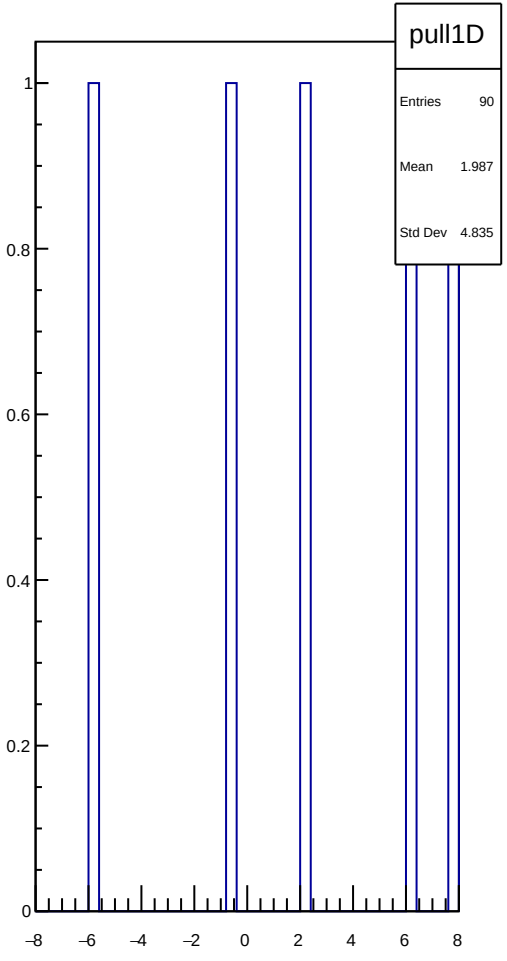

yield_bcm_an_diff_rms vs run
χ² / ndf 1.969e+05 / 89
p0 5419 ± 4.304
35000
30000
25000
20000
15000
10000
5000

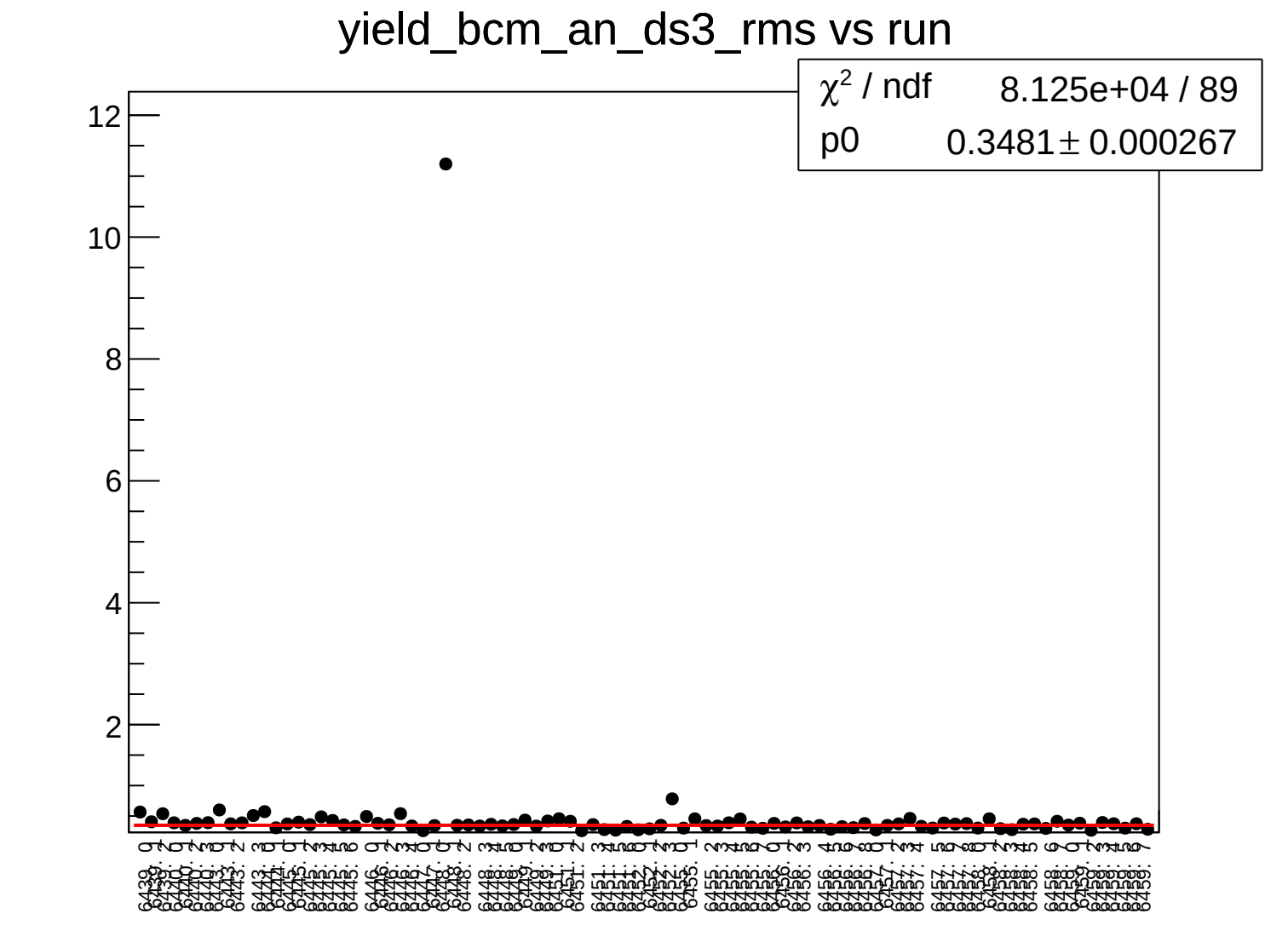

yield_bcm_an_ds_mean vs run
χ² / ndf 9.096e+05 / 89
p0 148.6 ± 0.0003752
150
148
146
144
142
pull
Entries 90
Mean −319
Std Dev 0
200
100
0
−100
−200
−300

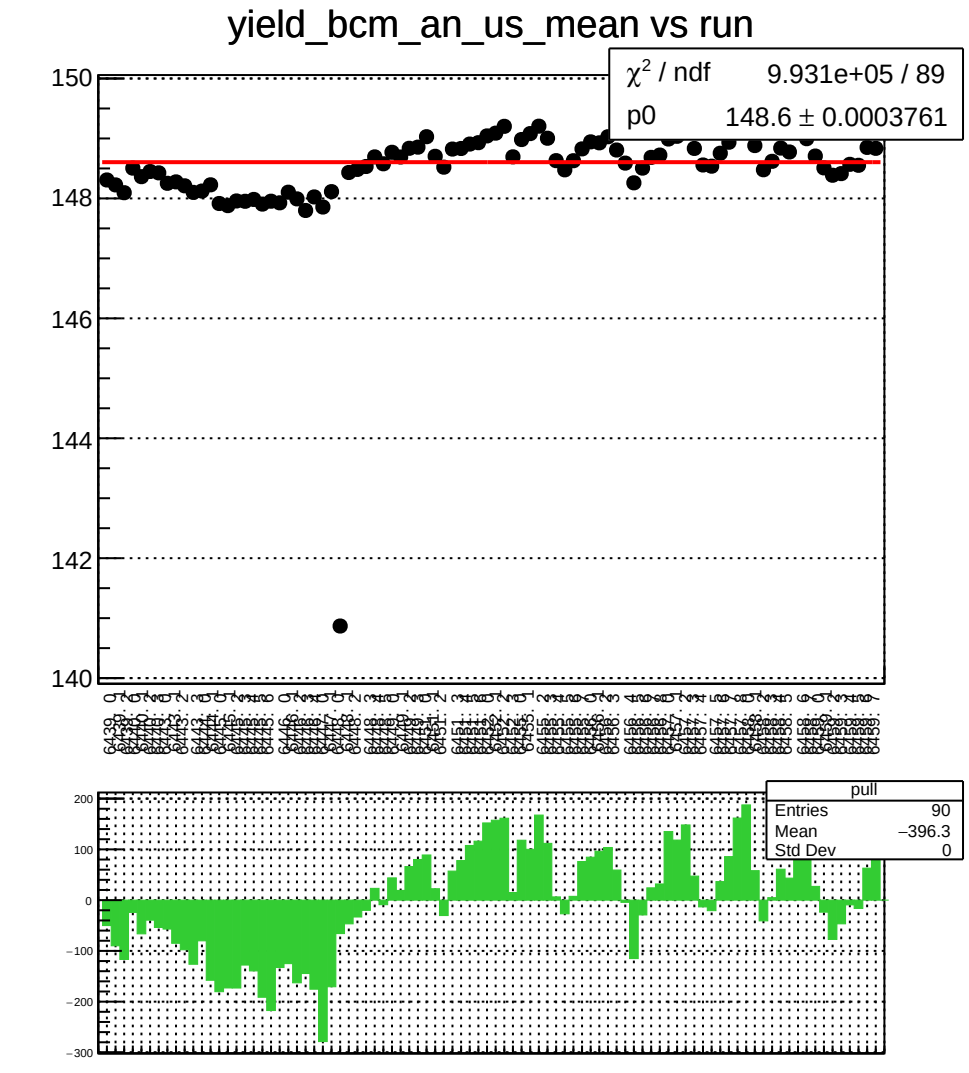

pull1D
Entries 90
Mean 2.518
Std Dev 3.068
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

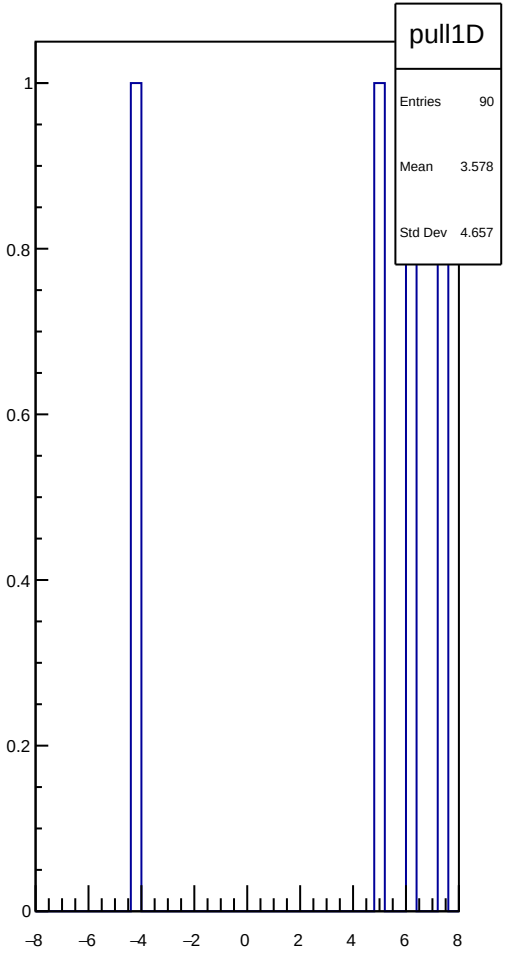

yield_bcm_an_ds_rms vs run
χ² / ndf 8.049e+04 / 89
p0 0.346 ± 0.0002653
12
10
8
6
4
2

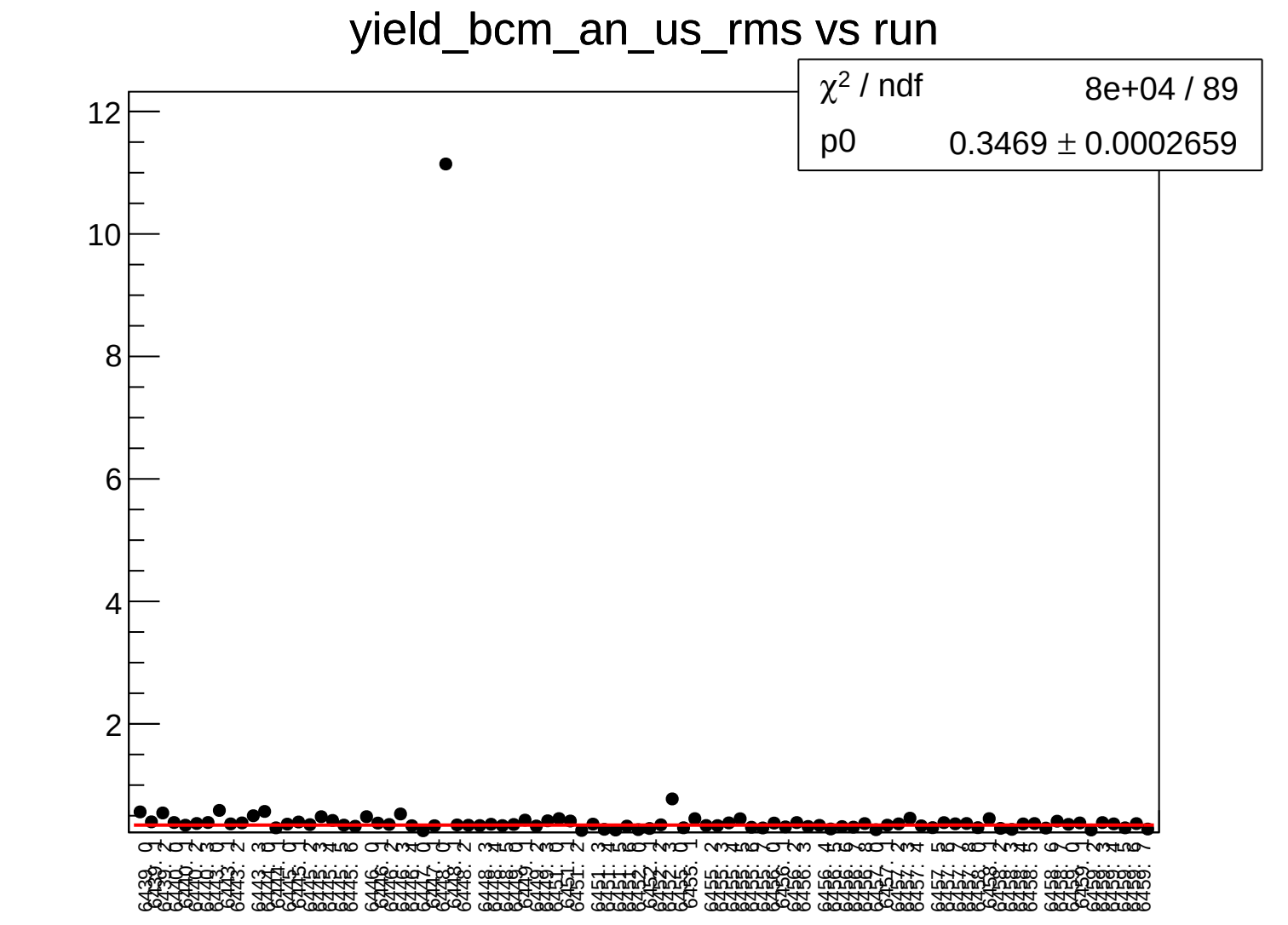

yield_bcm_an_ds3_mean vs run
χ² / ndf 9.02e+05 / 89
p0 148.8 ± 0.0003775
150
148
146
144
142
pull
Entries 90
Mean −302.6
Std Dev 0
100
0
−100
−200
−300

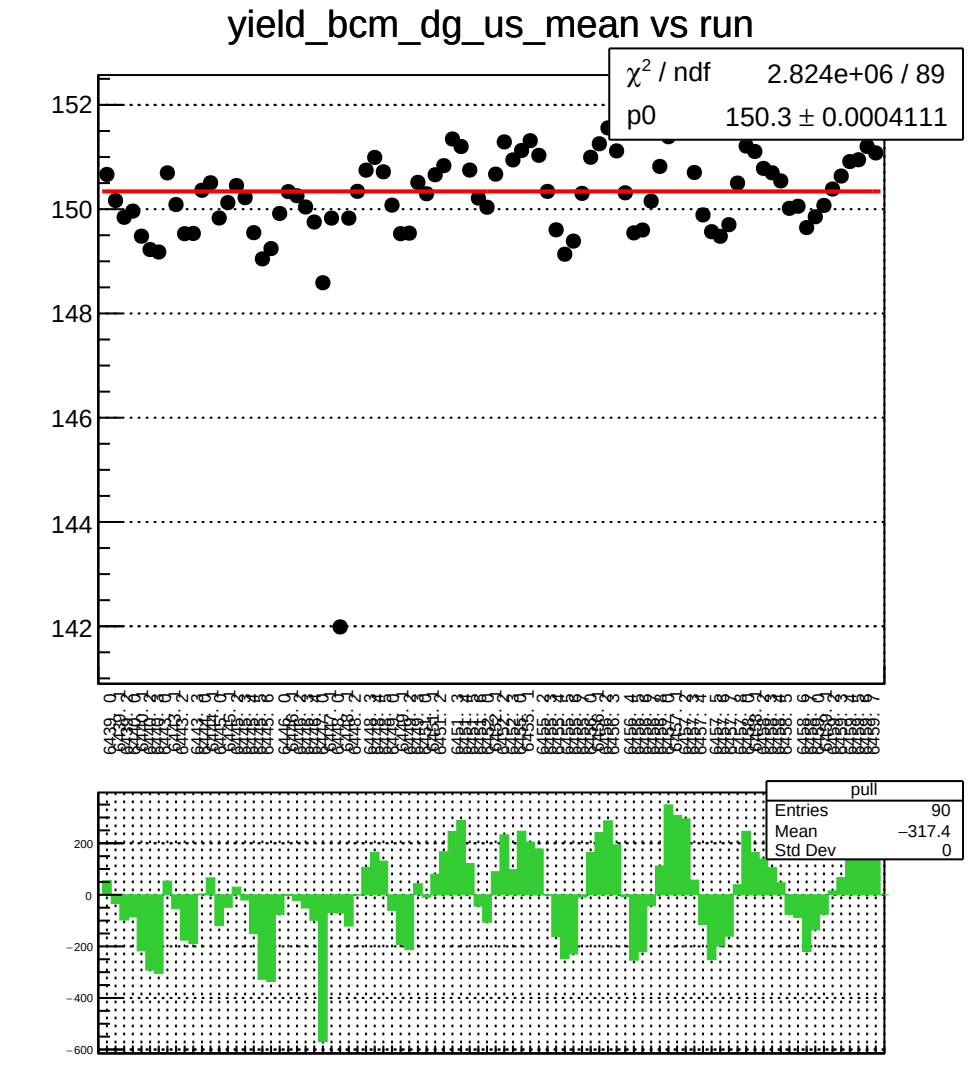

pull1D
Entries 90
Mean 1.987
Std Dev 4.835
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

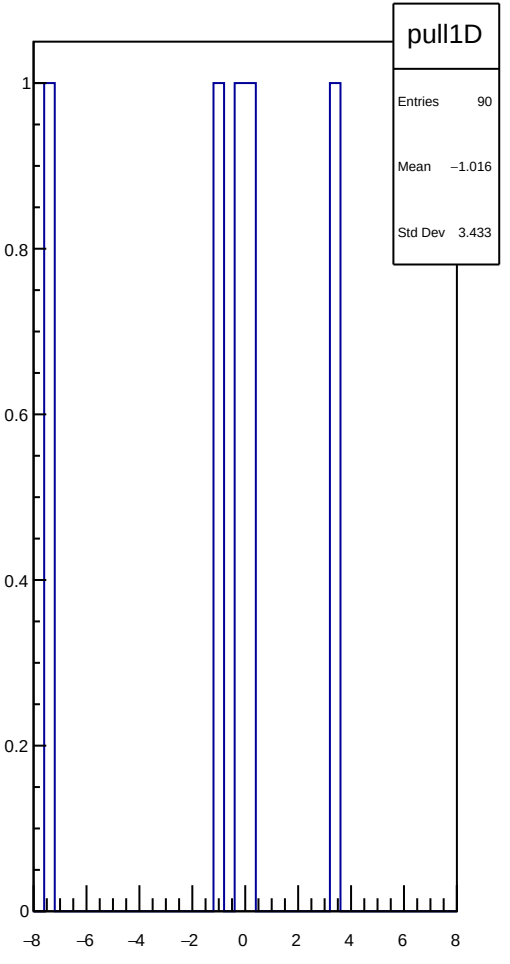

yield_bcm_an_ds3_rms vs run
χ^2 / ndf 8.125e+04 / 89
p0 0.3481 ± 0.000267
12
10
8
6
4
2

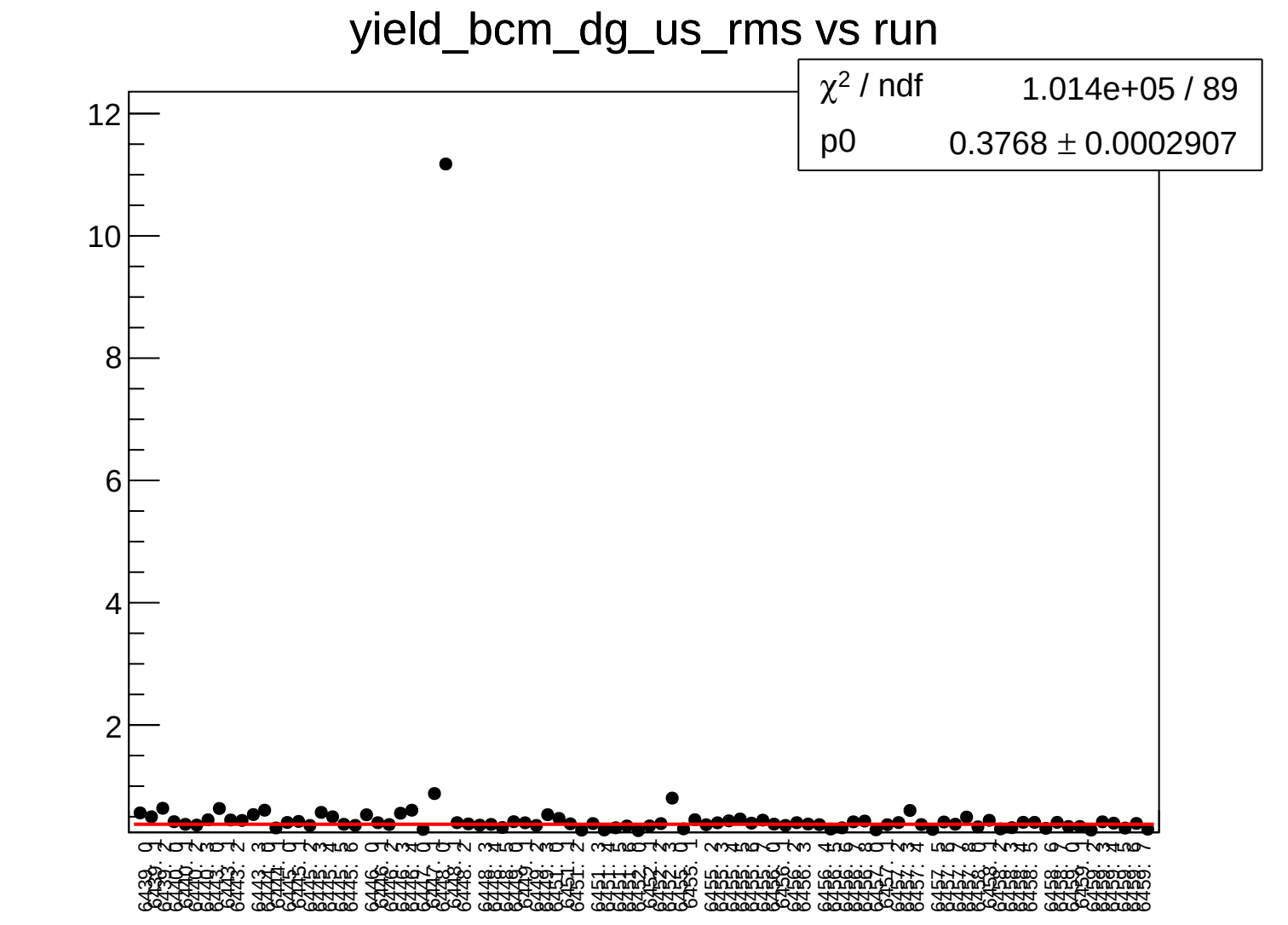

yield_bcm_an_us_mean vs run
χ² / ndf 9.931e+05 / 89
p0 148.6 ± 0.0003761
150
148
146
144
142
140
pull
Entries 90
Mean −396.3
Std Dev 0
200
100
0
−100
−200
−300

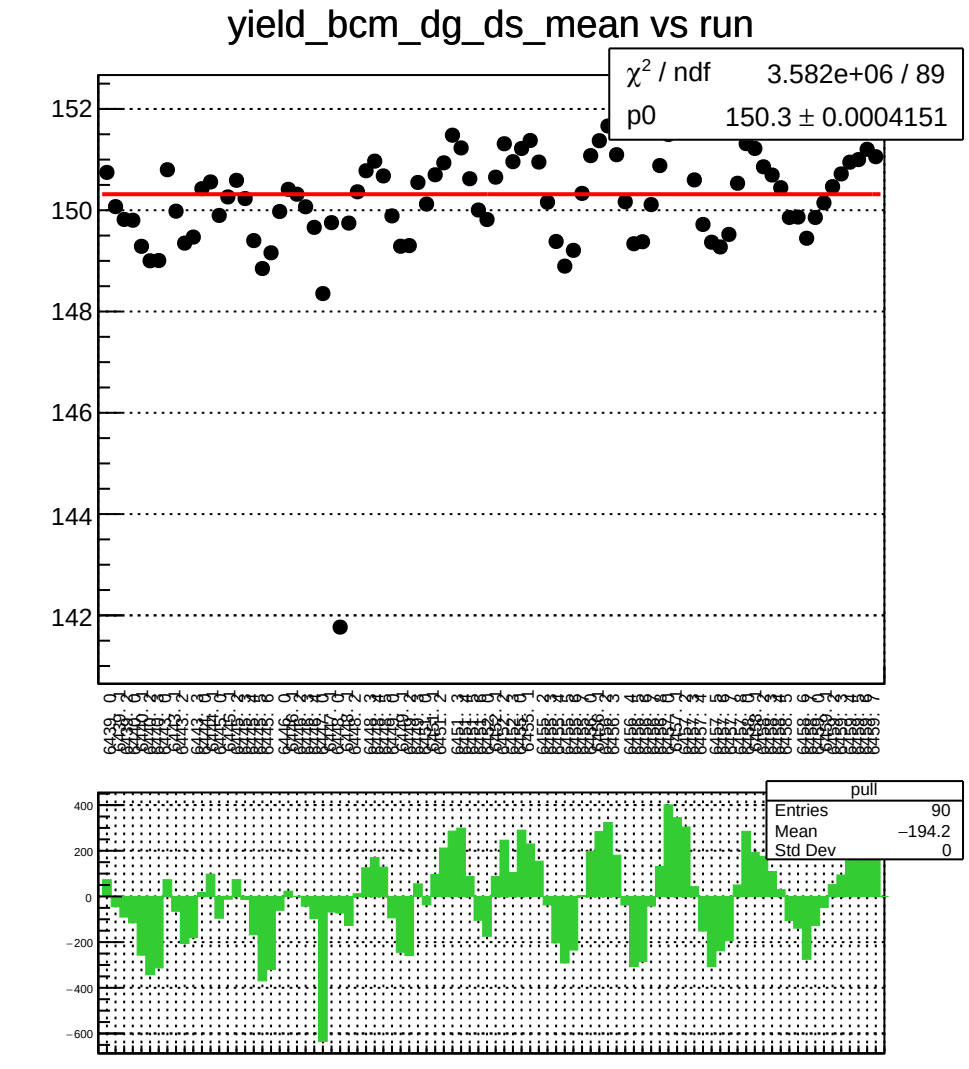

pull1D
Entries 90
Mean 3.578
Std Dev 4.657
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

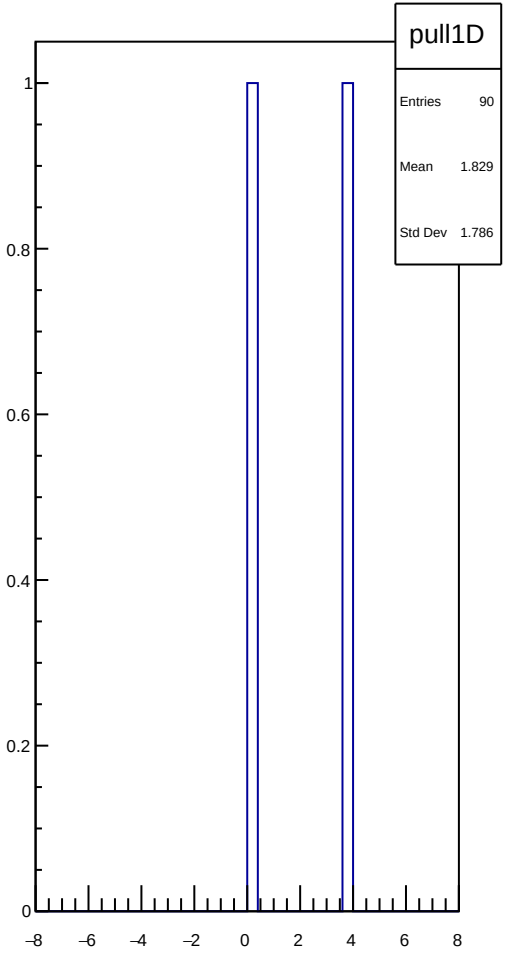

yield_bcm_an_us_rms vs run
χ² / ndf 8e+04 / 89
p0 0.3469 ± 0.0002659
12
10
8
6
4
2

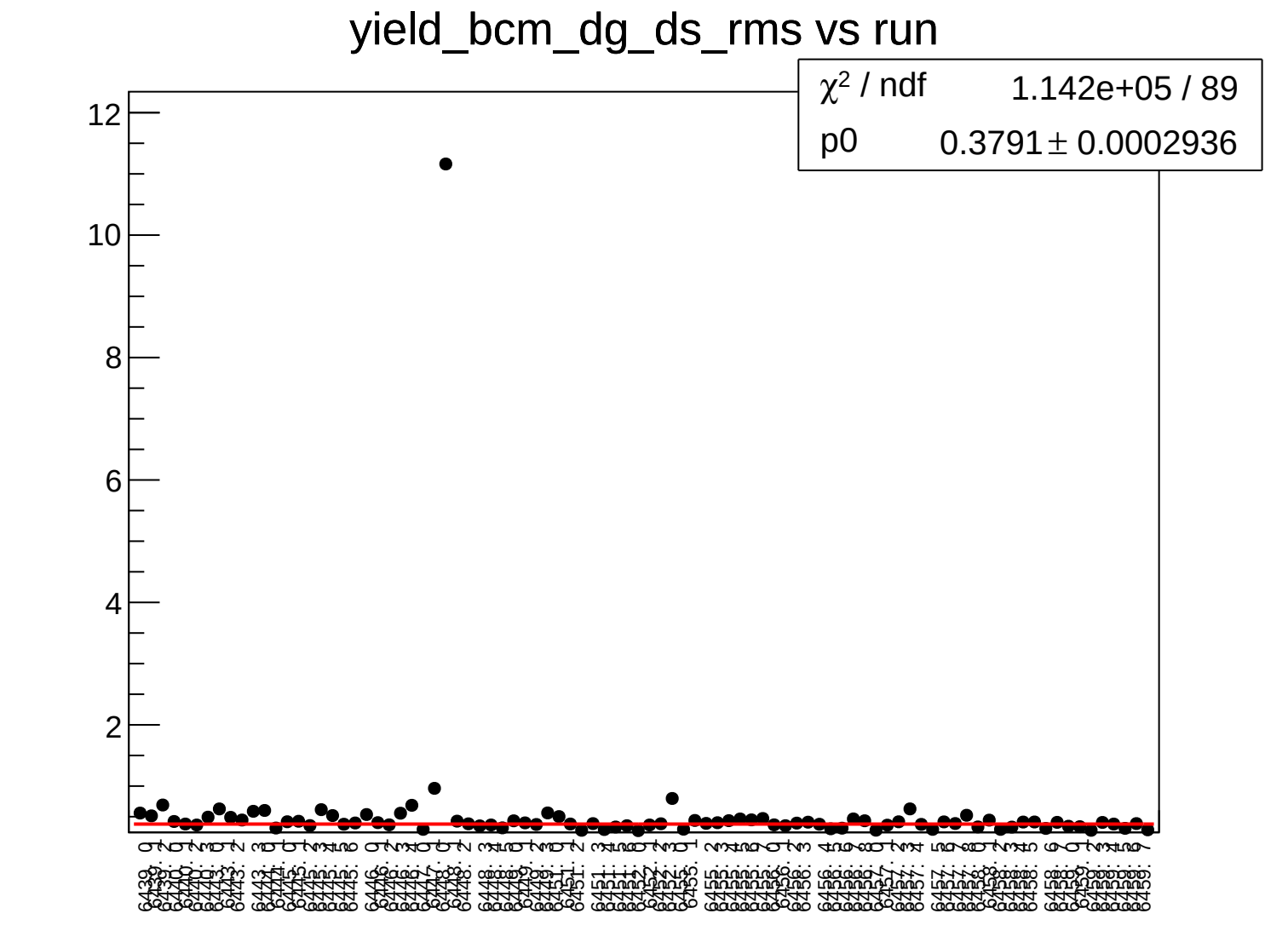

yield_bcm_dg_us_mean vs run
χ² / ndf 2.824e+06 / 89
p0 150.3 ± 0.0004111
152
150
148
146
144
142
pull
Entries 90
Mean −317.4
Std Dev 0
200
0
−200
−400
−600

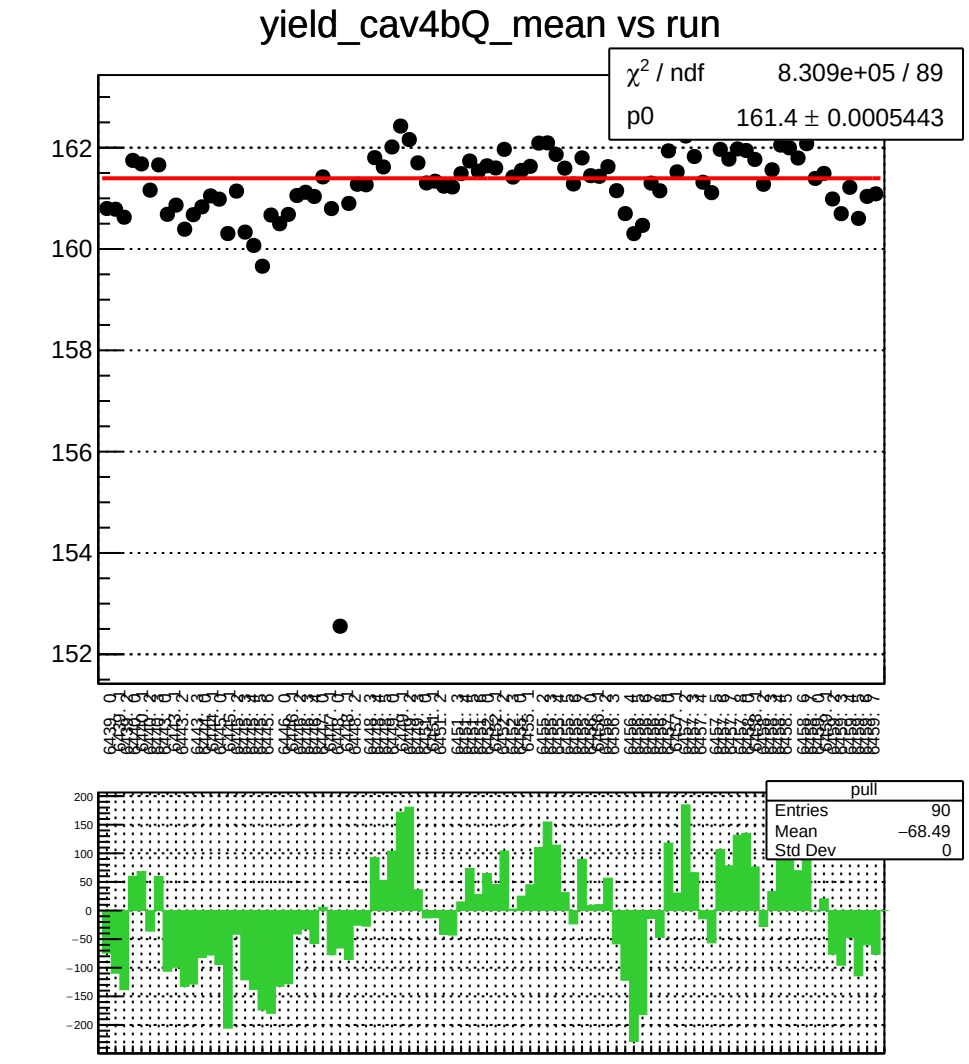

pull1D
Entries 90
Mean −1.016
Std Dev 3.433
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

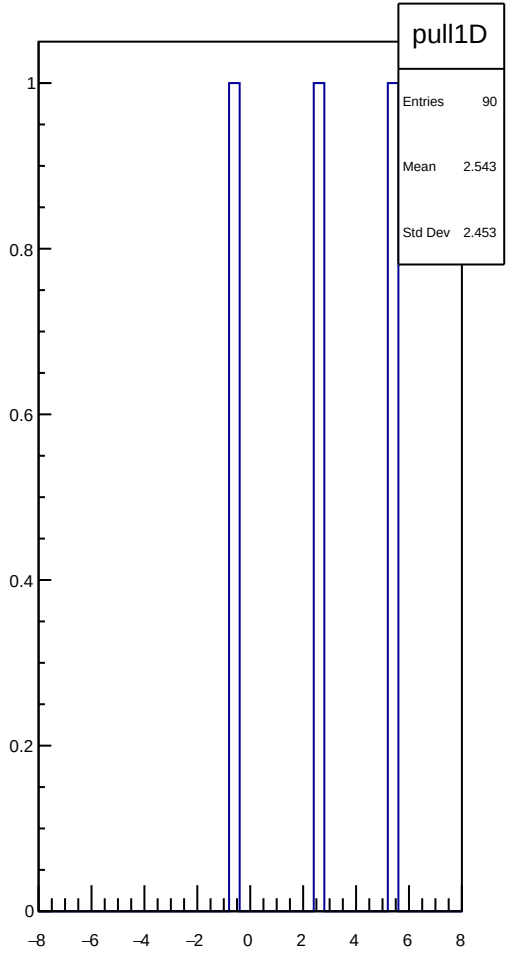

yield_bcm_dg_us_rms vs run
χ² / ndf 1.014e+05 / 89
p0 0.3768 ± 0.0002907
12
10
8
6
4
2

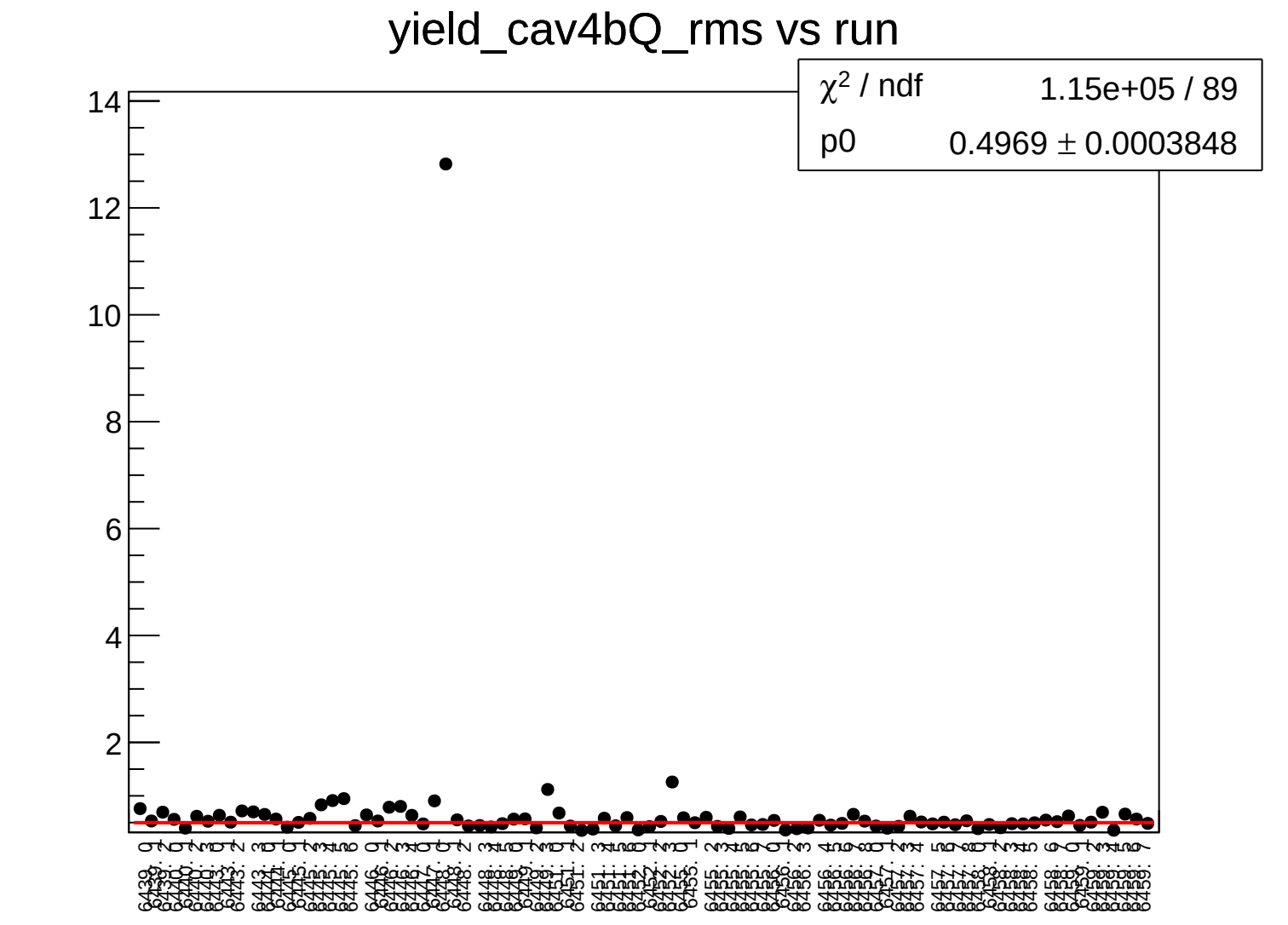

yield_bcm_dg_ds_mean vs run
χ² / ndf 3.582e+06 / 89
p0 150.3 ± 0.0004151
152
150
148
146
144
142
pull
Entries 90
Mean −194.2
Std Dev 0
400
200
0
−200
−400
−600

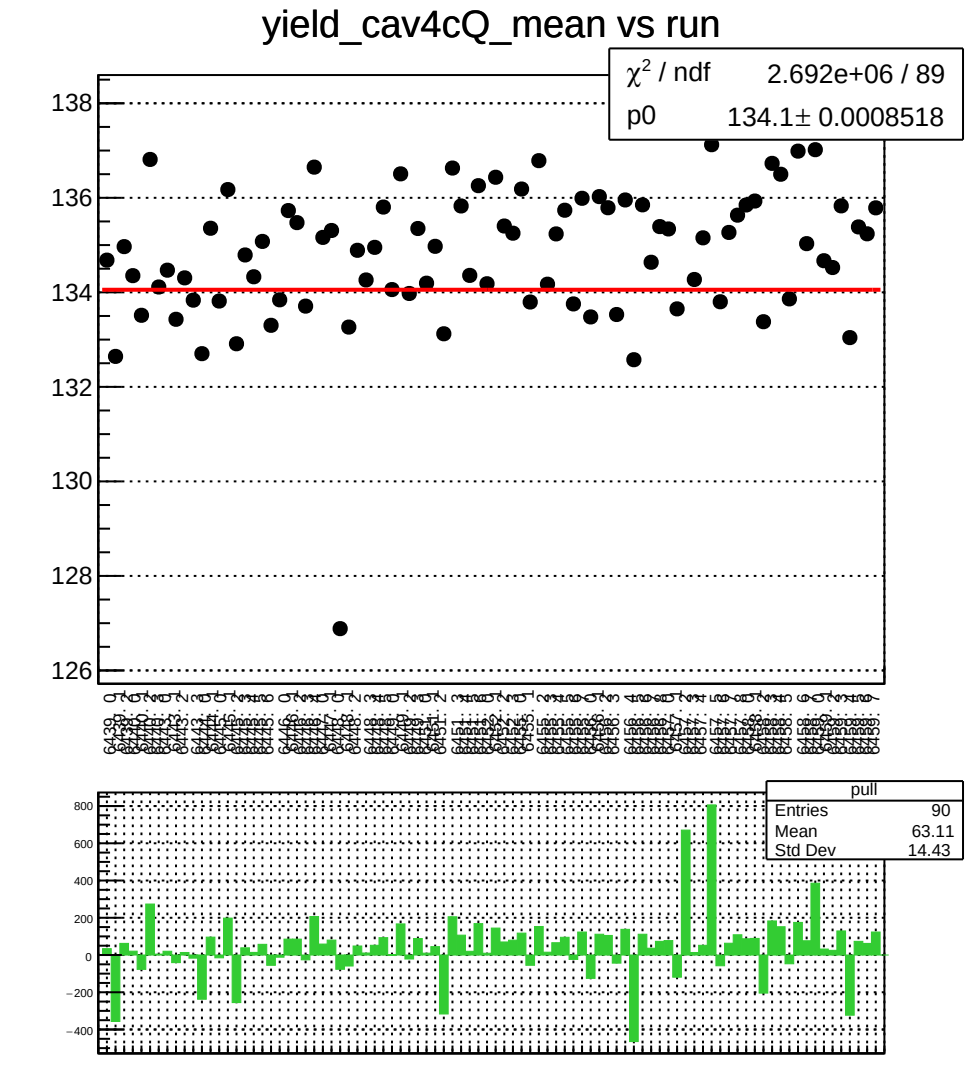

pull1D
Entries 90
Mean 1.829
Std Dev 1.786
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

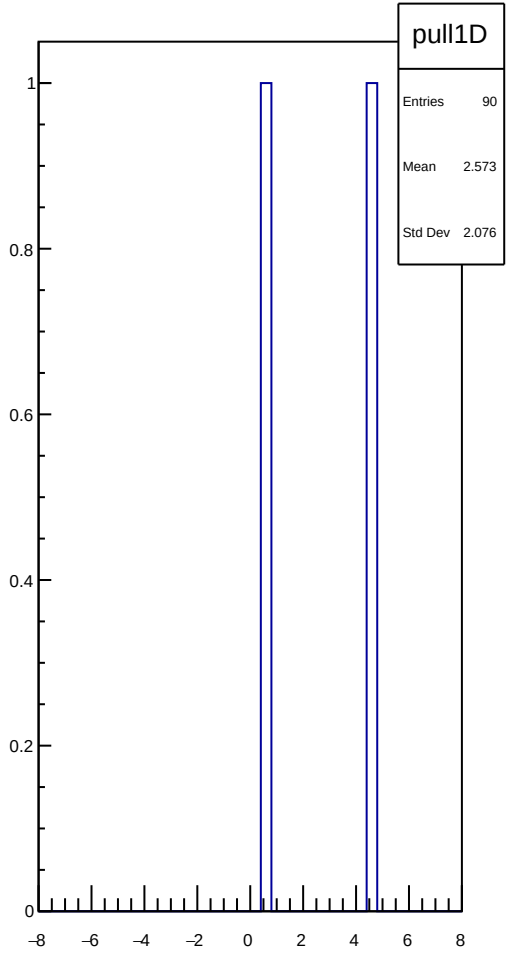

yield_bcm_dg_ds_rms vs run
χ² / ndf 1.142e+05 / 89
p0 0.3791 ± 0.0002936
12
10
8
6
4
2

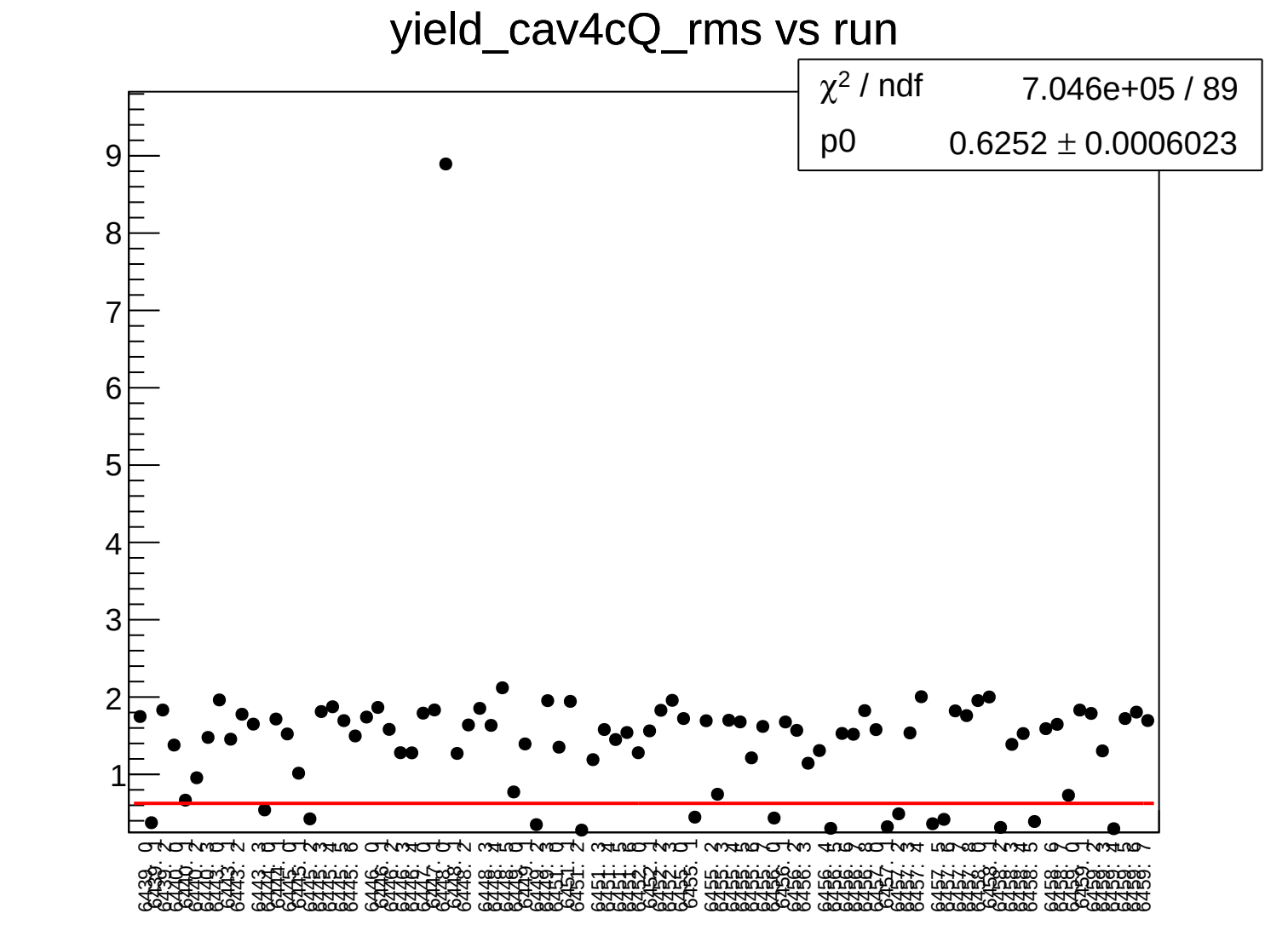

yield_cav4bQ_mean vs run
χ² / ndf 8.309e+05 / 89
p0 161.4 ± 0.0005443
162
160
158
156
154
152
pull
Entries 90
Mean −68.49
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200

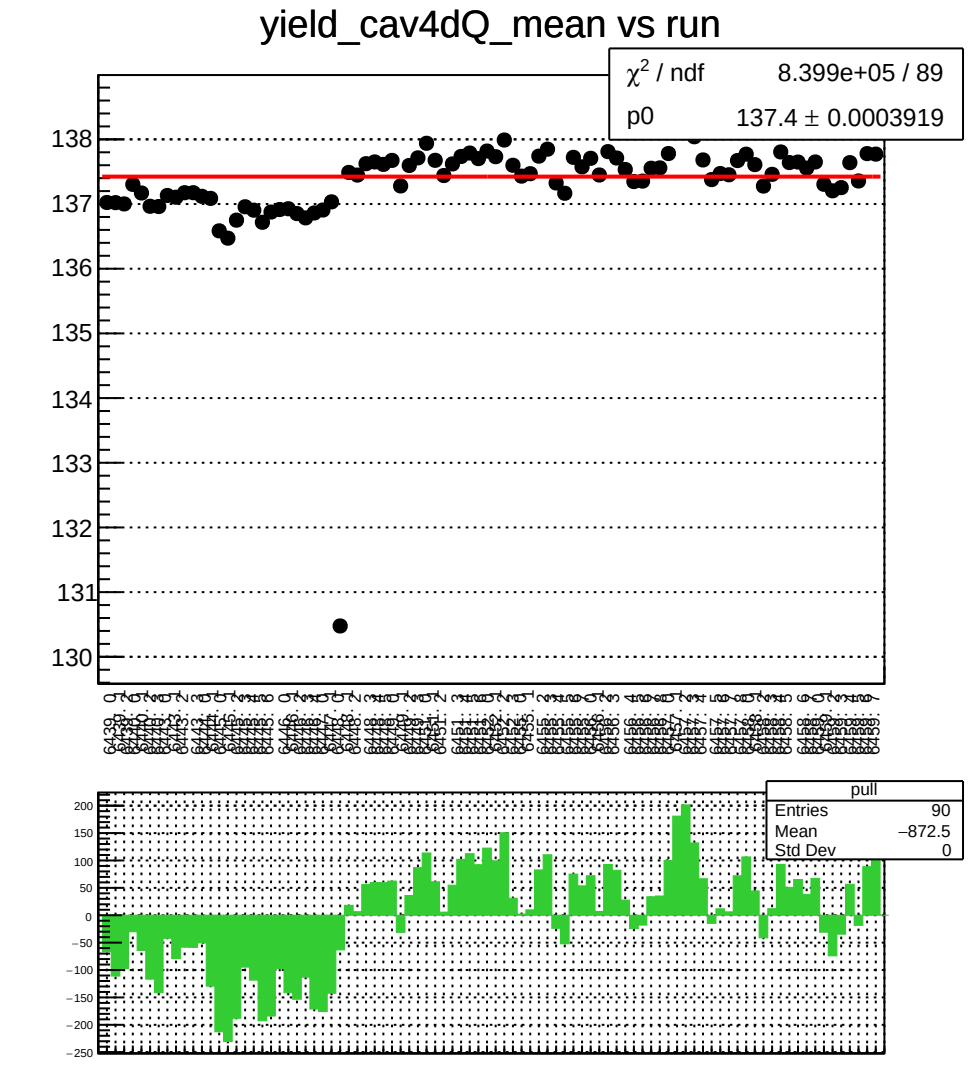

pull1D
Entries 90
Mean 2.543
Std Dev 2.453
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

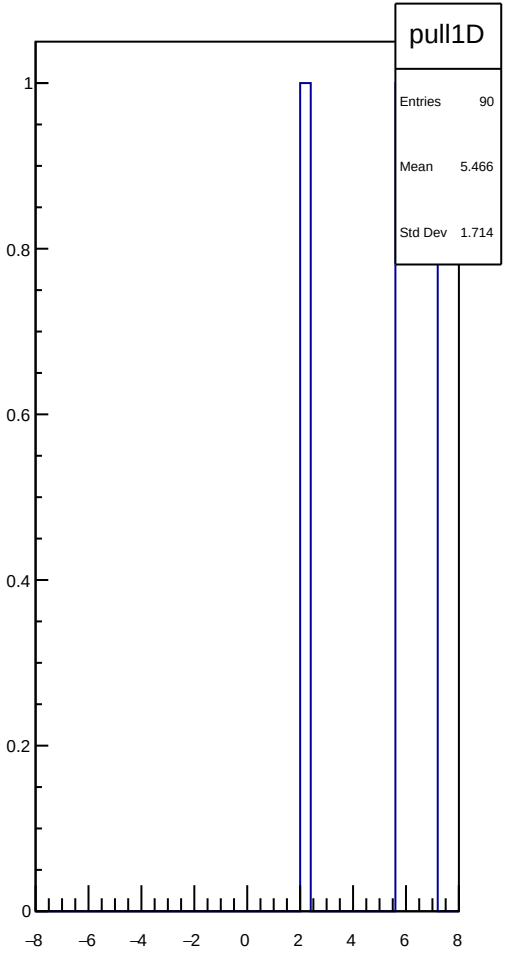

yield_cav4bQ_rms vs run
χ^2 / ndf 1.15e+05 / 89
p0 0.4969 ± 0.0003848
14
12
10
8
6
4
2

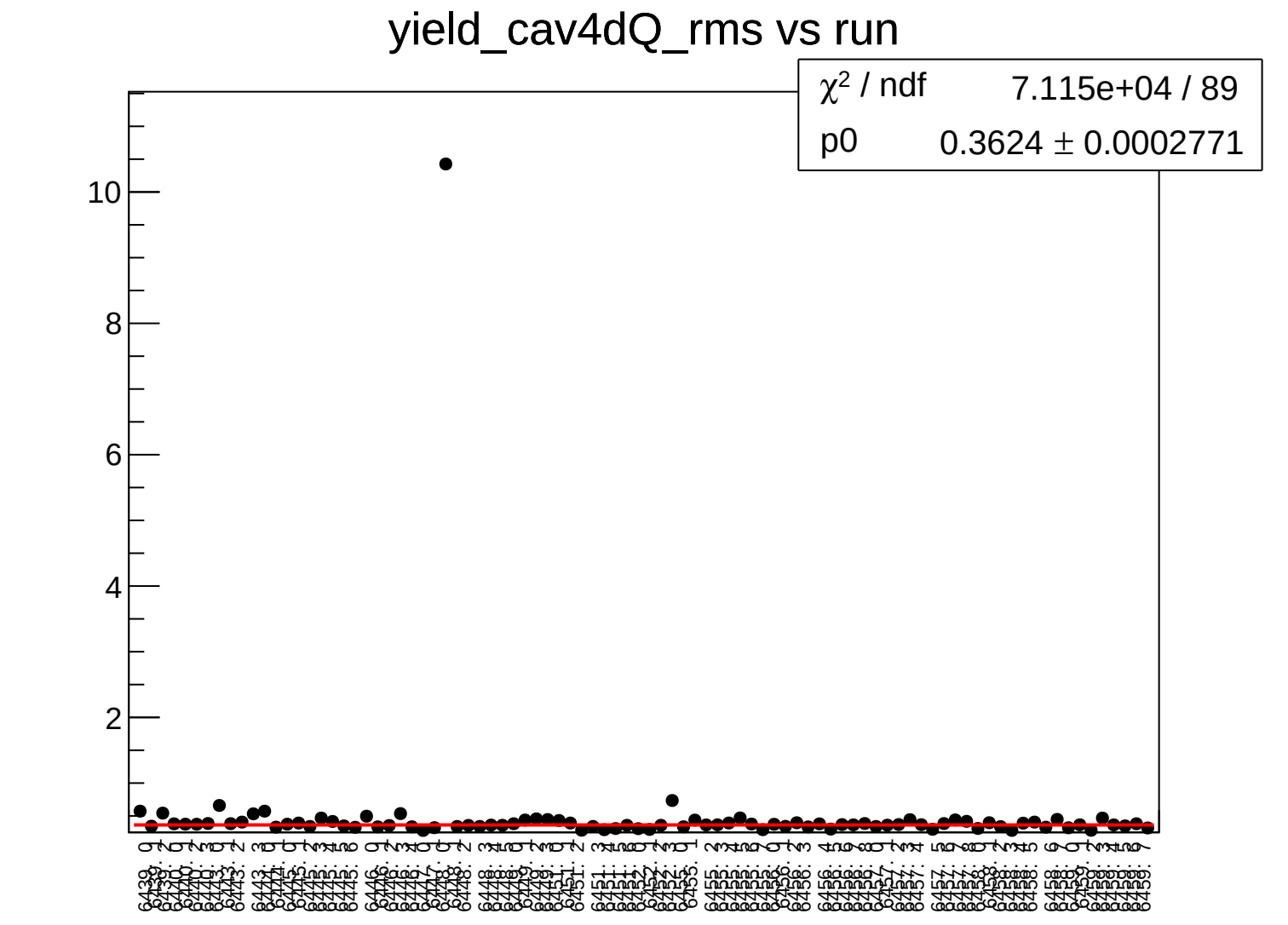

yield_cav4cQ_mean vs run
χ² / ndf 2.692e+06 / 89
p0 134.1± 0.0008518
138
136
134
132
130
128
126
pull
Entries 90
Mean 63.11
Std Dev 14.43
800
600
400
200
0
−200
−400

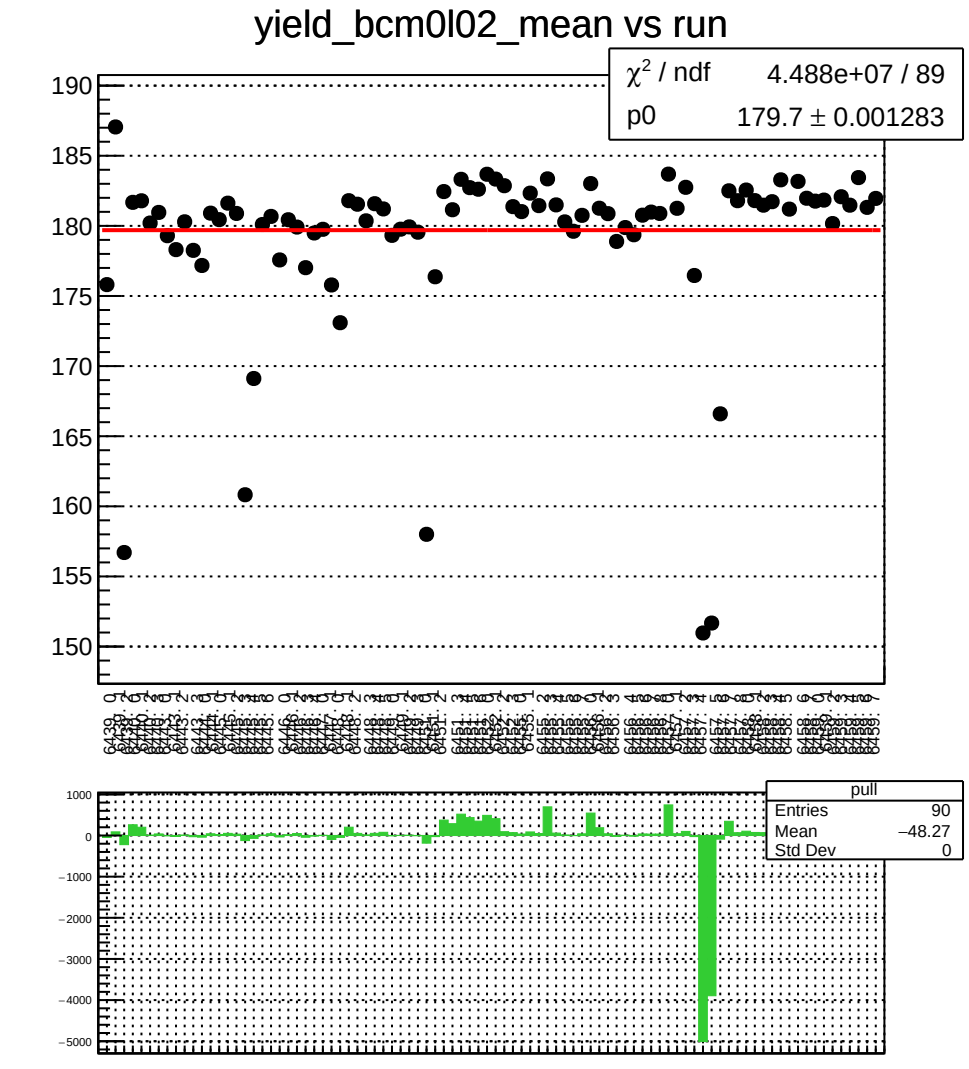

pull1D
Entries 90
Mean 2.573
Std Dev 2.076
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

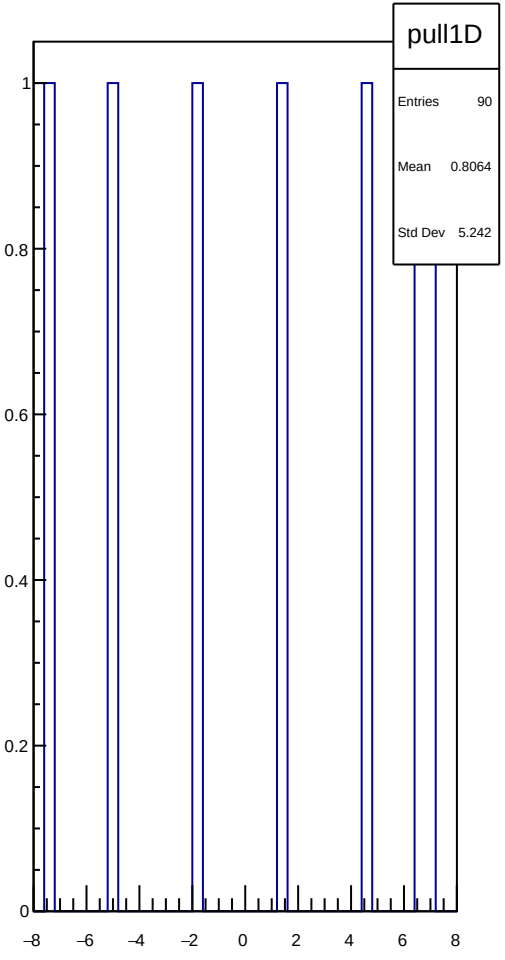

yield_cav4cQ_rms vs run
χ² / ndf 7.046e+05 / 89
p0 0.6252 ± 0.0006023
9
8
7
6
5
4
3
2
1

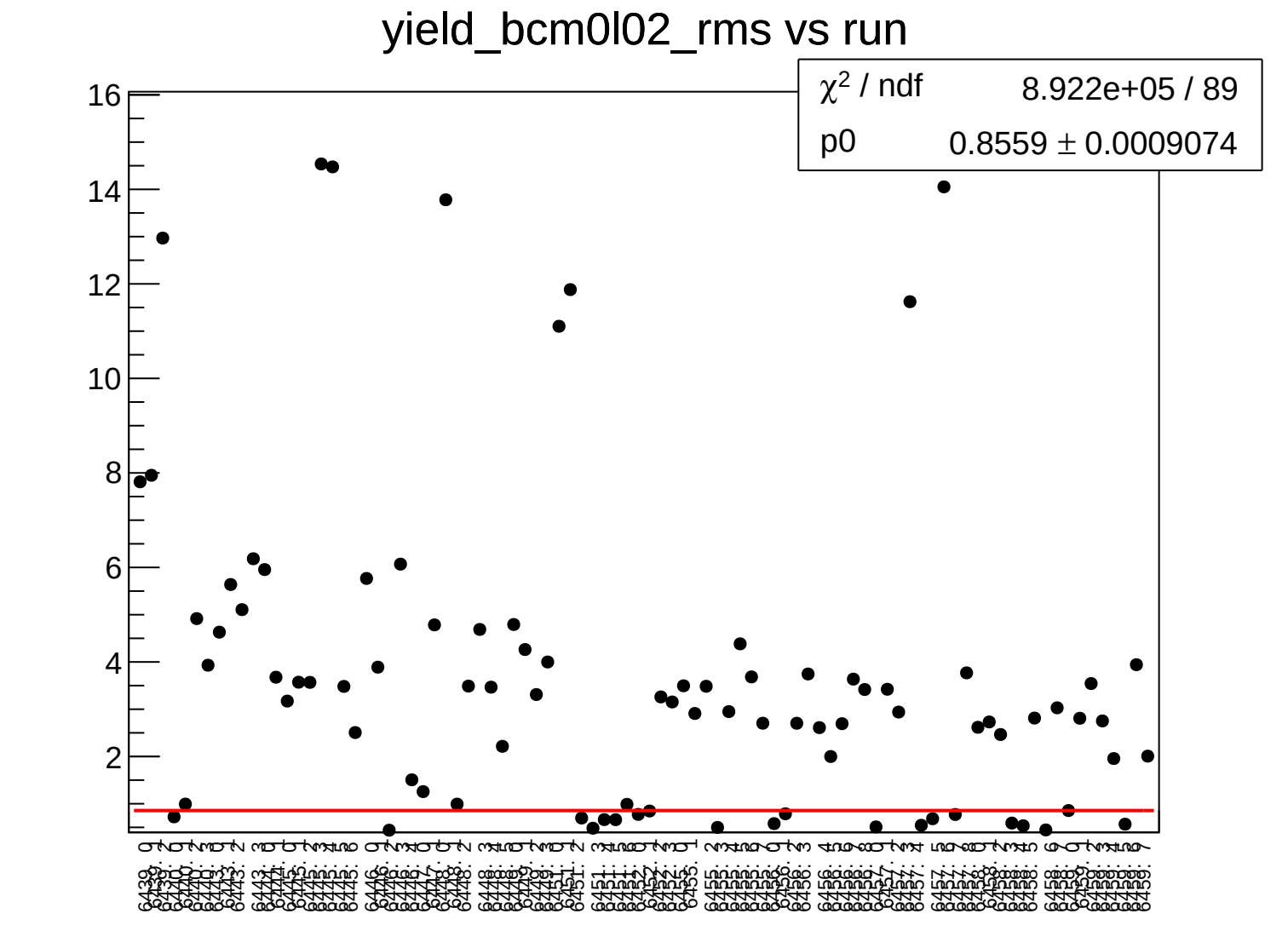

yield_cav4dQ_mean vs run
χ² / ndf 8.399e+05 / 89
p0 137.4 ± 0.0003919
138
137
136
135
134
133
132
131
130
pull
Entries 90
Mean −872.5
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200
−250

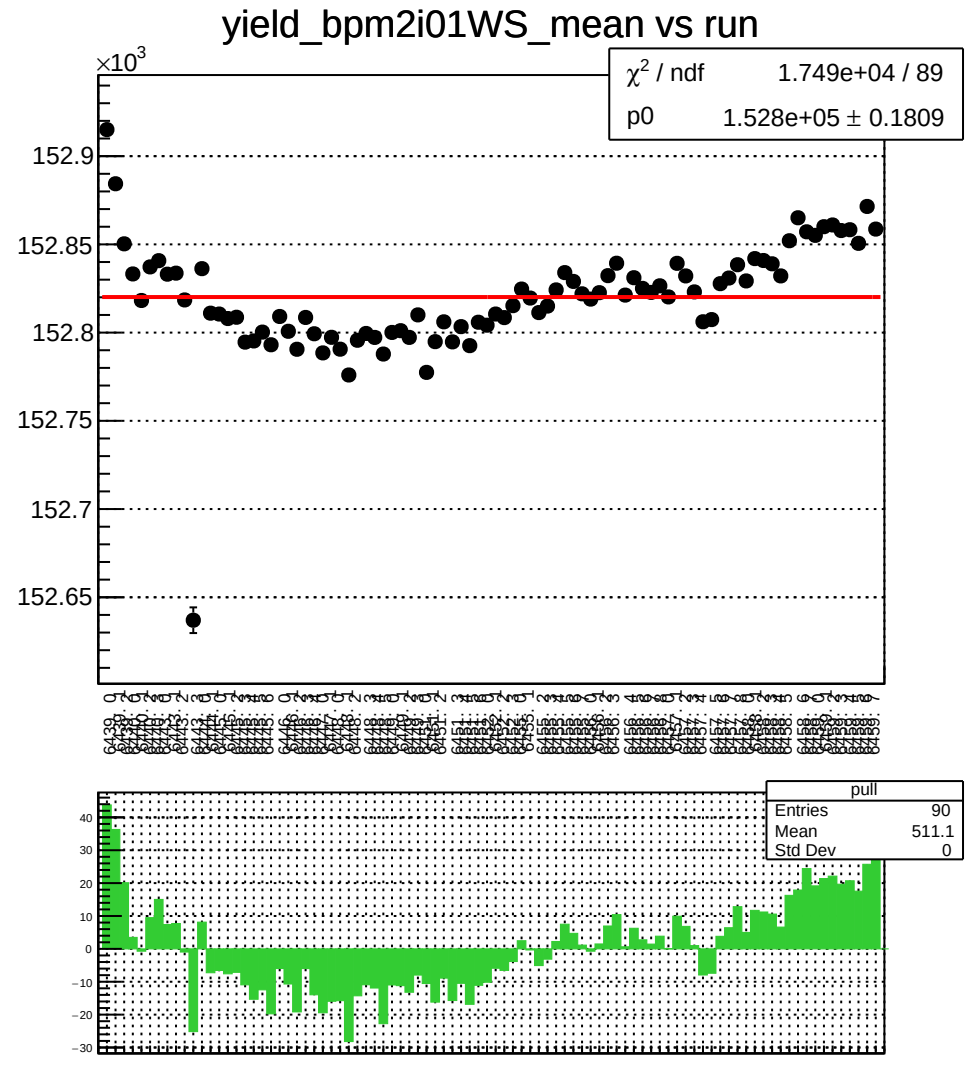

pull1D
Entries 90
Mean 5.466
Std Dev 1.714
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

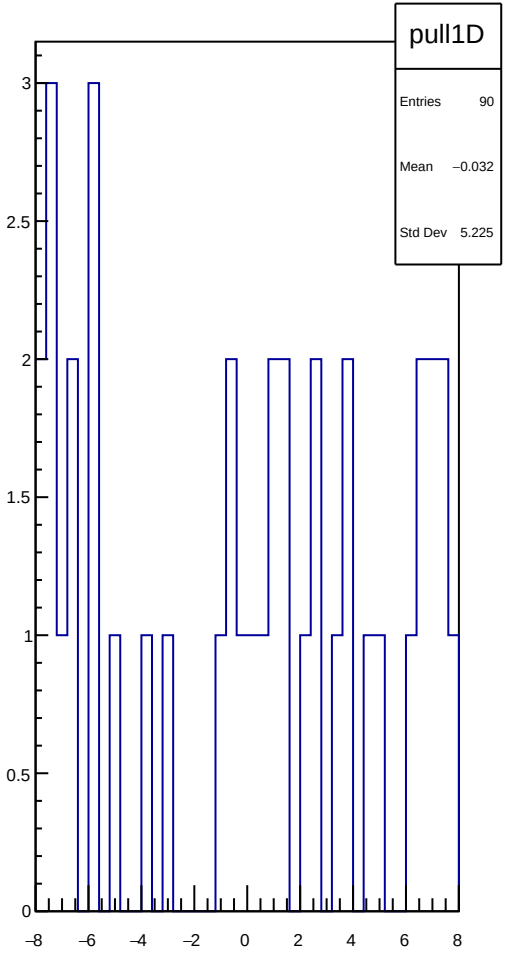

yield_cav4dQ_rms vs run
χ² / ndf 7.115e+04 / 89
p0 0.3624 ± 0.0002771
10
8
6
4
2

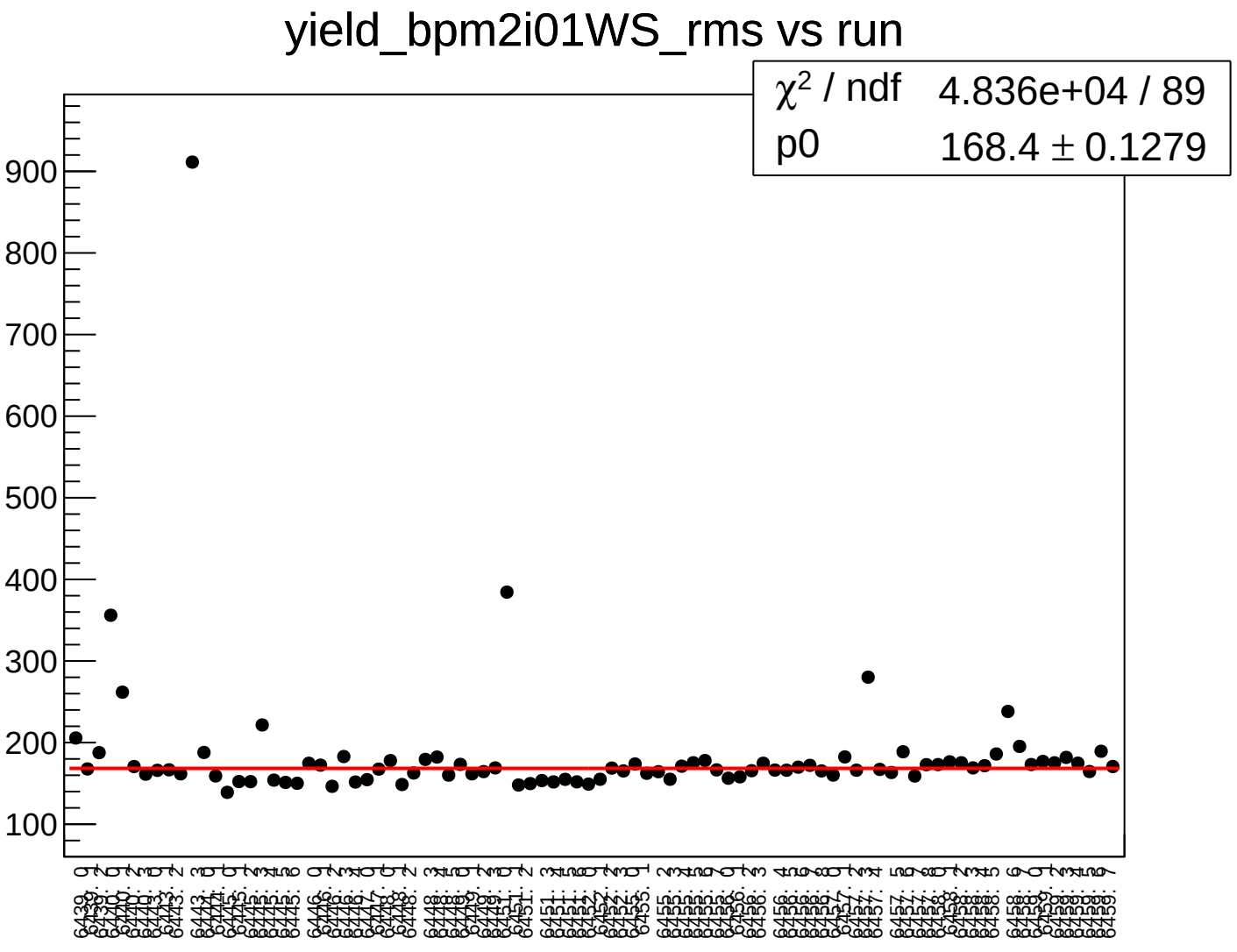

yield_bcm0l02_mean vs run
χ² / ndf 4.488e+07 / 89
p0 179.7 ± 0.001283
190
185
180
175
170
165
160
155
150
pull
Entries 90
Mean −48.27
Std Dev 0
1000
0
−1000
−2000
−3000
−4000
−5000

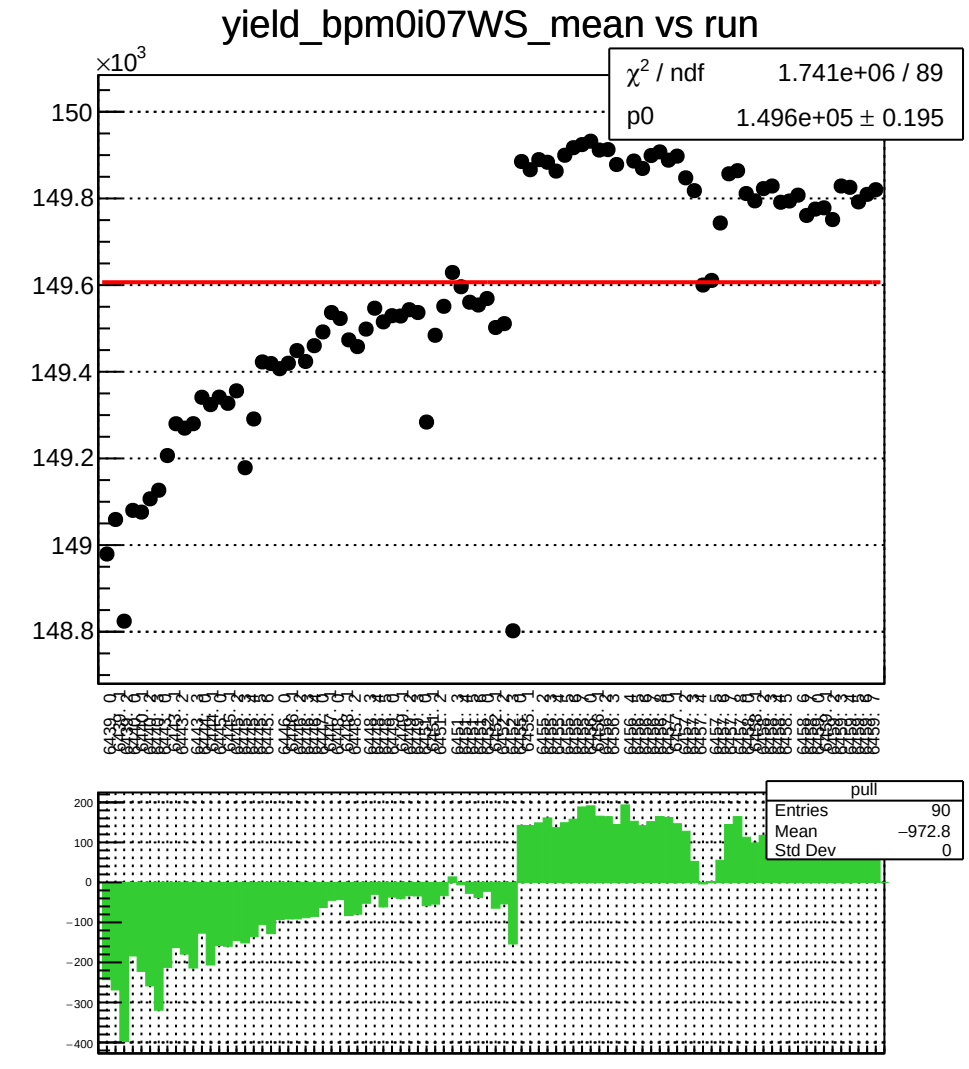

pull1D
Entries 90
Mean 0.8064
Std Dev 5.242
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

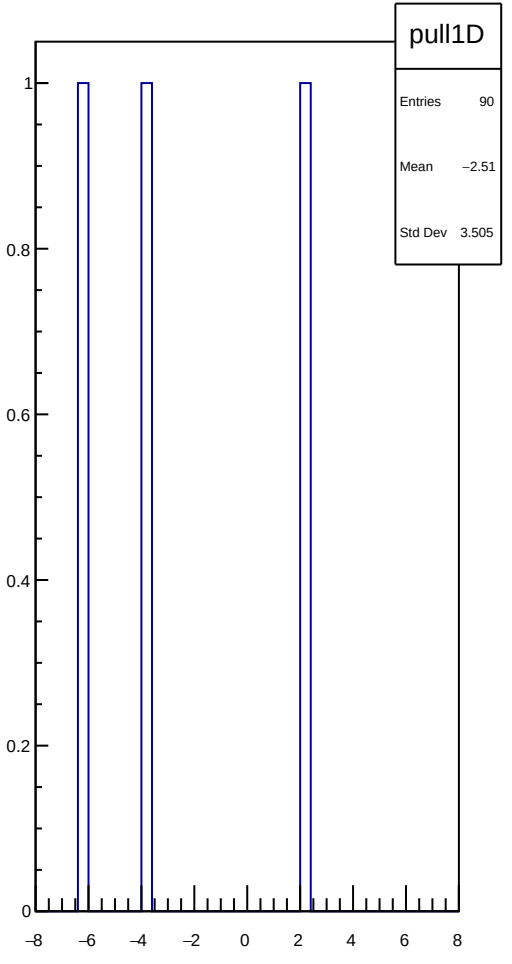

yield_bcm0l02_rms vs run
χ² / ndf 8.922e+05 / 89
p0 0.8559 ± 0.0009074
16
14
12
10
8
6
4
2

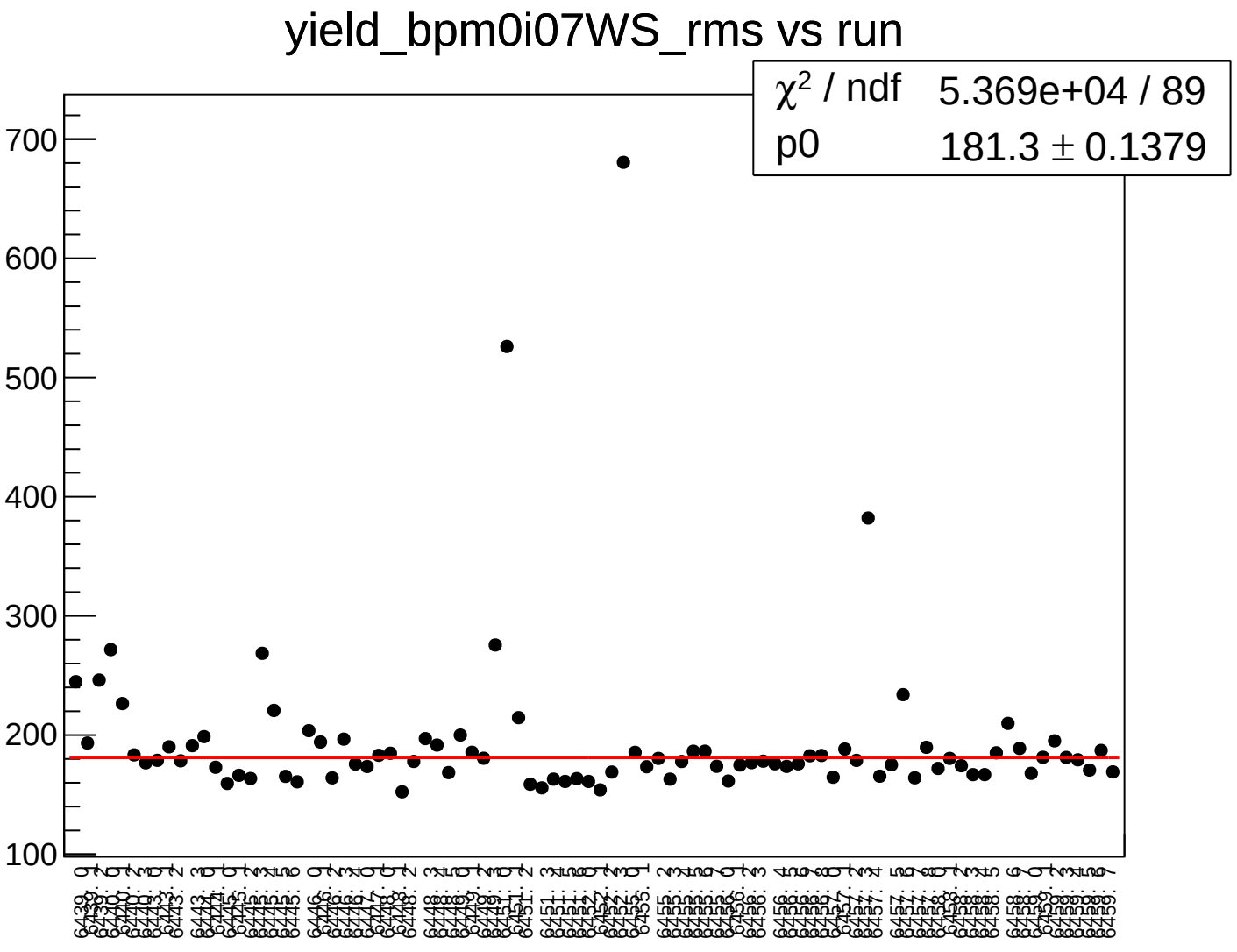

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 1.749e+04 / 89
p0 1.528e+05 ± 0.1809
152.9
152.85
152.8
152.75
152.7
152.65
pull
Entries 90
Mean 511.1
Std Dev 0
40
30
20
10
0
−10
−20
−30

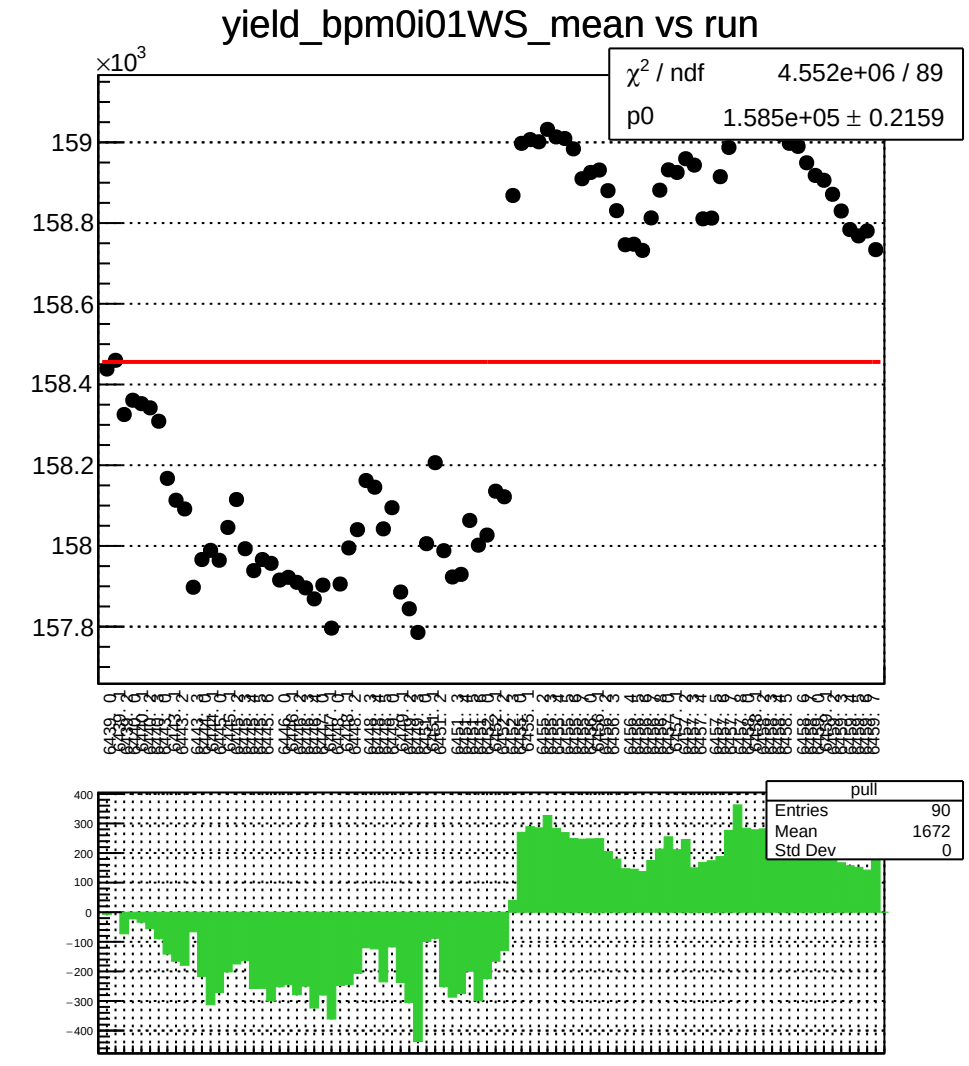

pull1D
Entries 90
Mean −0.032
Std Dev 5.225
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

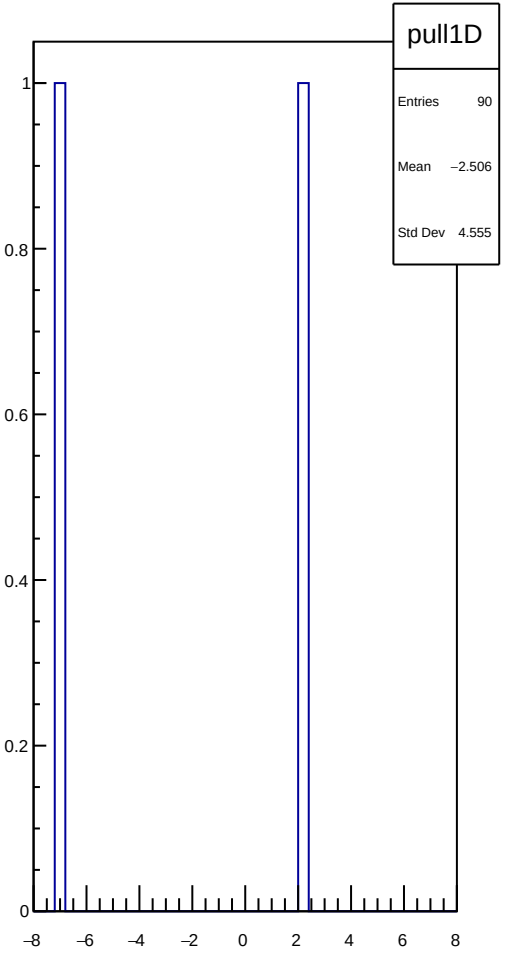

yield_bpm2i01WS_rms vs run
χ^2 / ndf 4.836e+04 / 89
p0 168.4 ± 0.1279
900
800
700
600
500
400
300
200
100

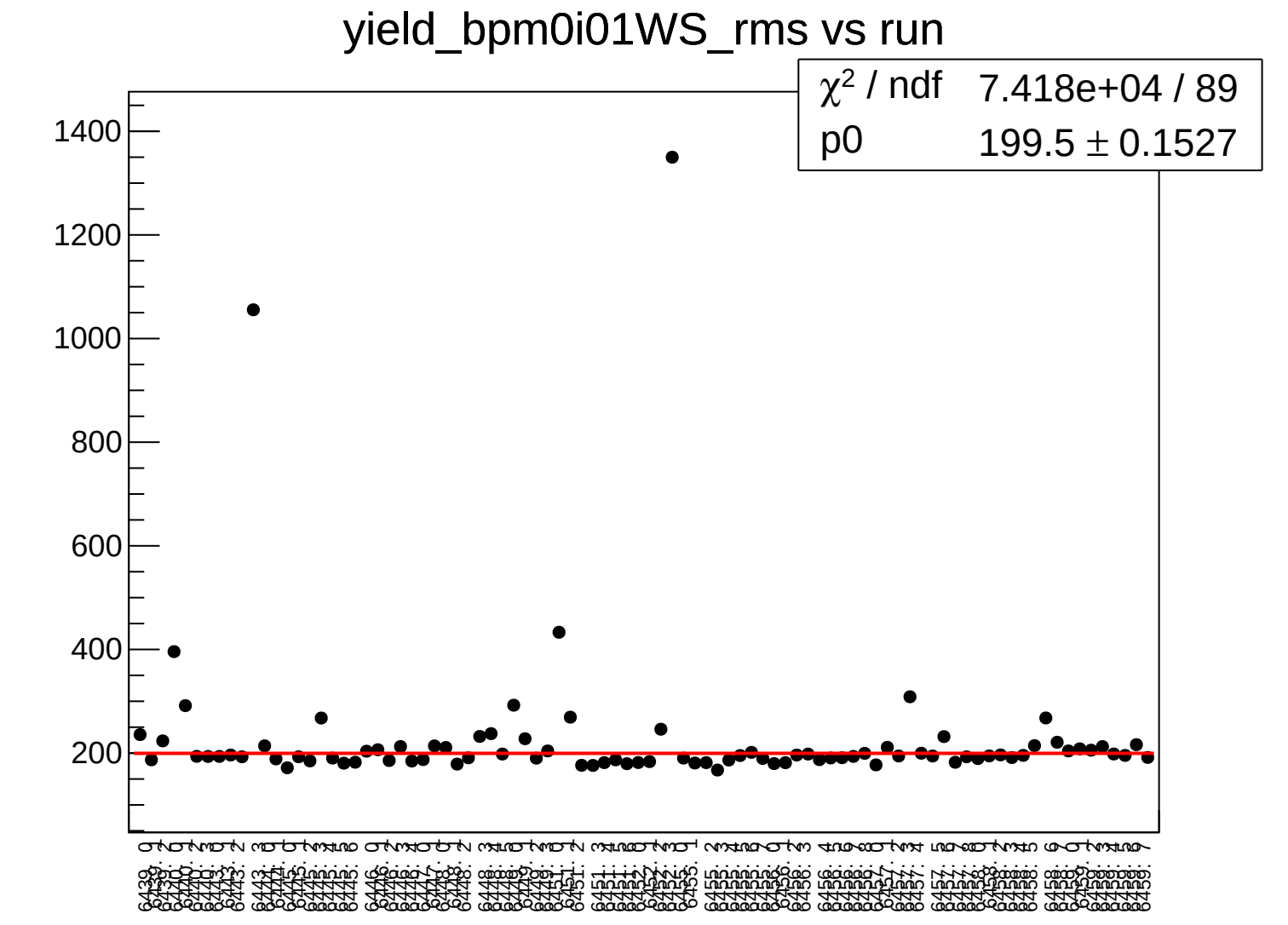

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 1.741e+06 / 89
p0 1.496e+05 ± 0.195
150
149.8
149.6
149.4
149.2
149
148.8
pull
Entries 90
Mean −972.8
Std Dev 0
200
100
0
−100
−200
−300
−400

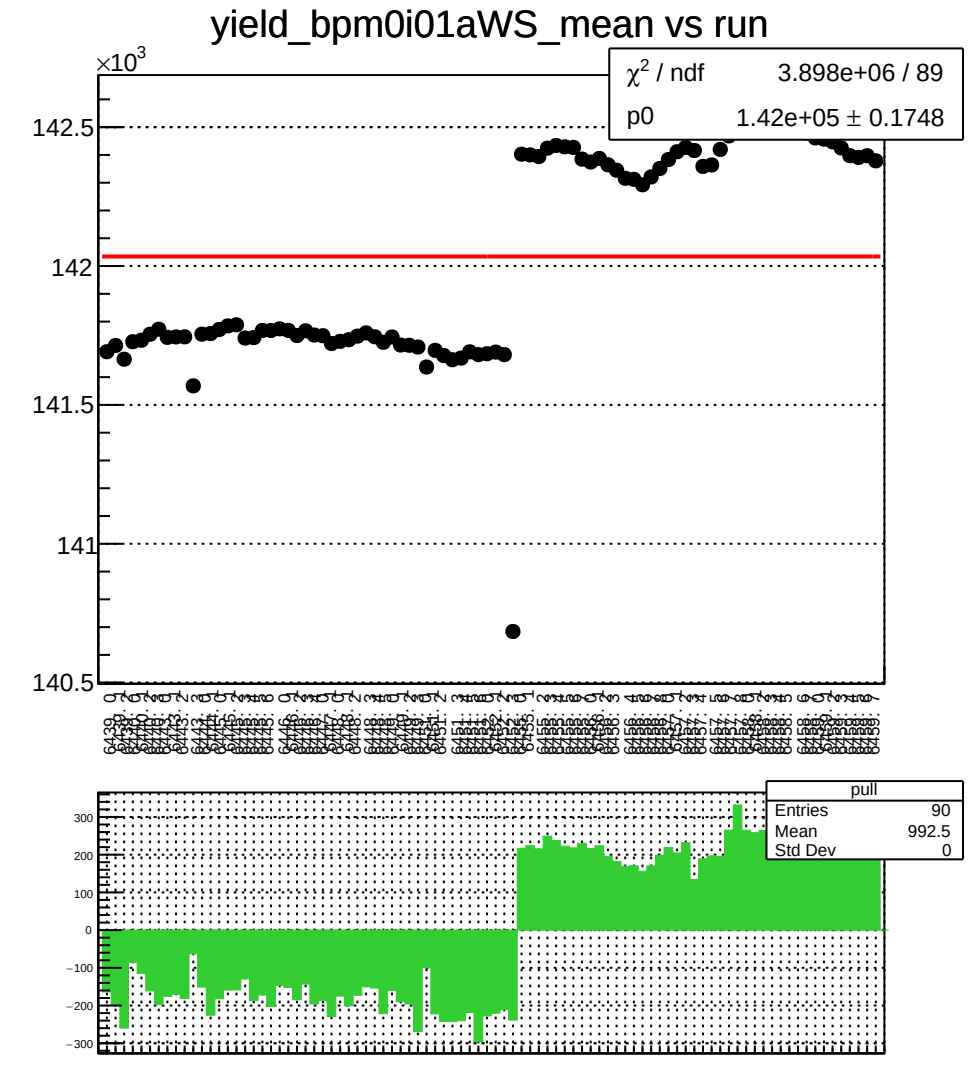

pull1D
Entries 90
Mean −2.51
Std Dev 3.505
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

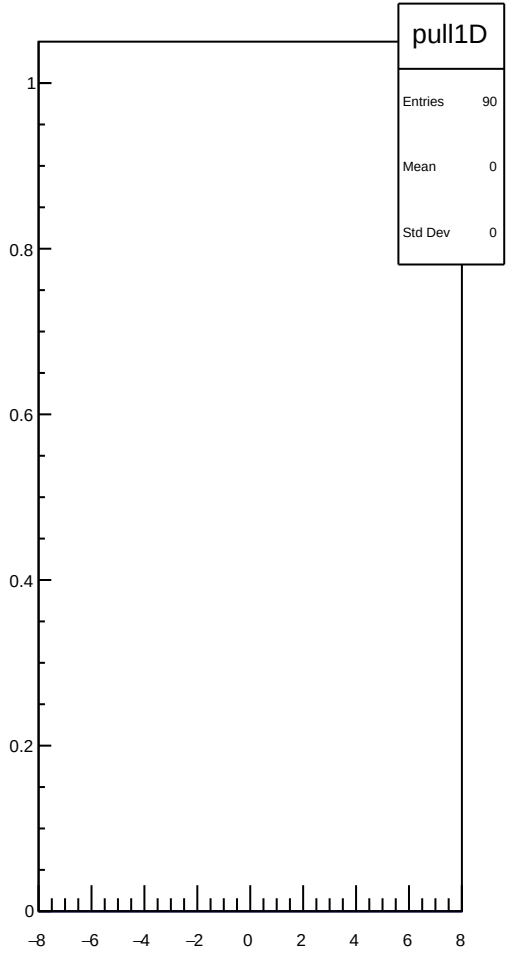

yield_bpm0i07WS_rms vs run
χ² / ndf 5.369e+04 / 89
p0 181.3 ± 0.1379
700
600
500
400
300
200
100

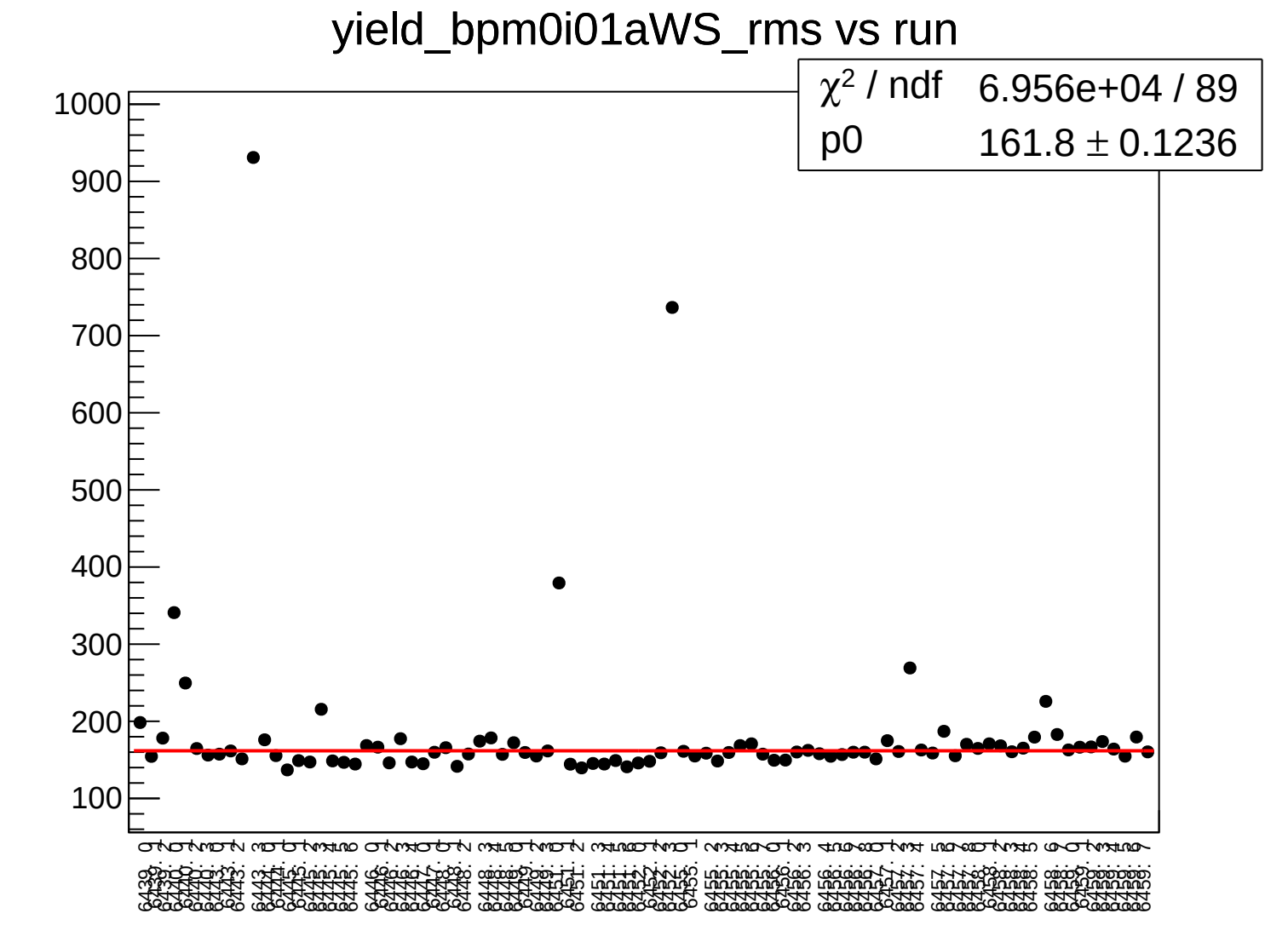

yield_bpm0i01WS_mean vs run
×10^3
χ² / ndf 4.552e+06 / 89
p0 1.585e+05 ± 0.2159
159
158.8
158.6
158.4
158.2
158
157.8
pull
Entries 90
Mean 1672
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400

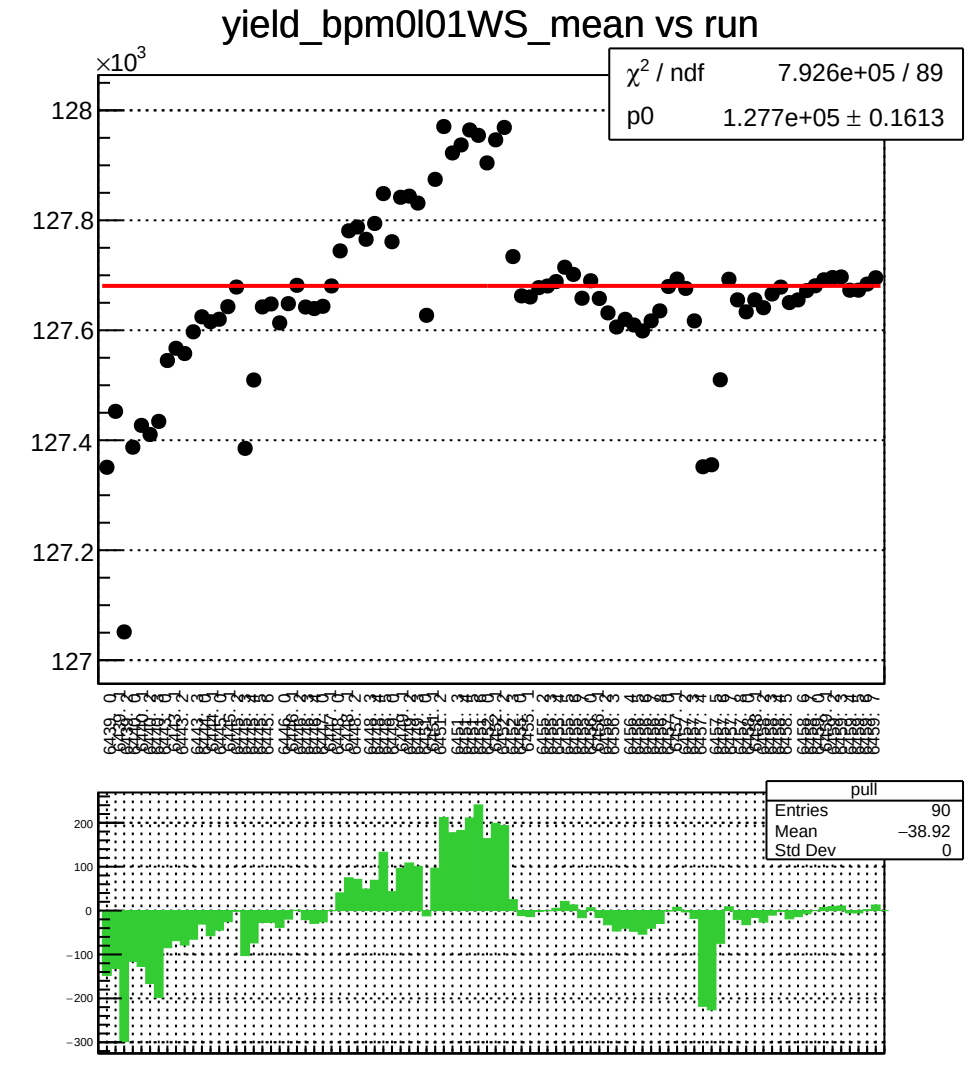

pull1D
Entries 90
Mean −2.506
Std Dev 4.555
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

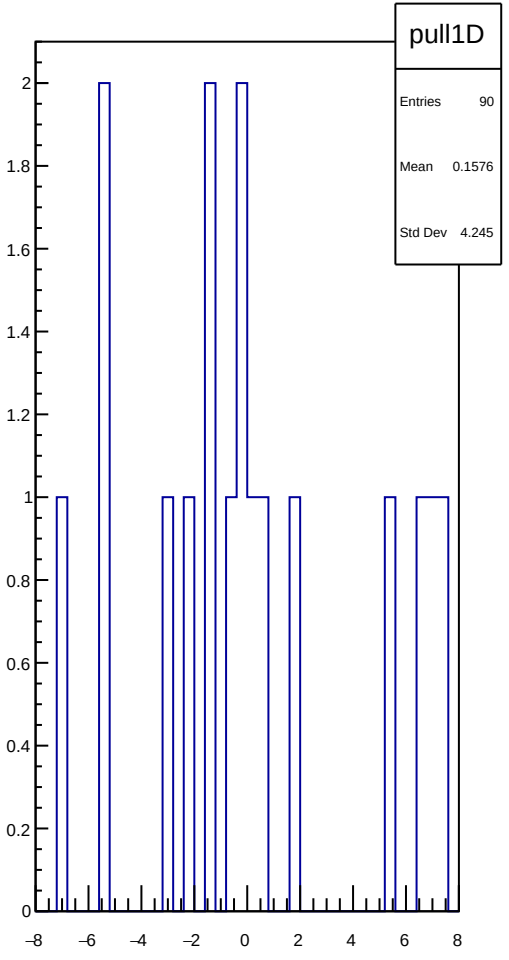

yield_bpm0i01WS_rms vs run
χ² / ndf 7.418e+04 / 89
p0 199.5 ± 0.1527
1400
1200
1000
800
600
400
200

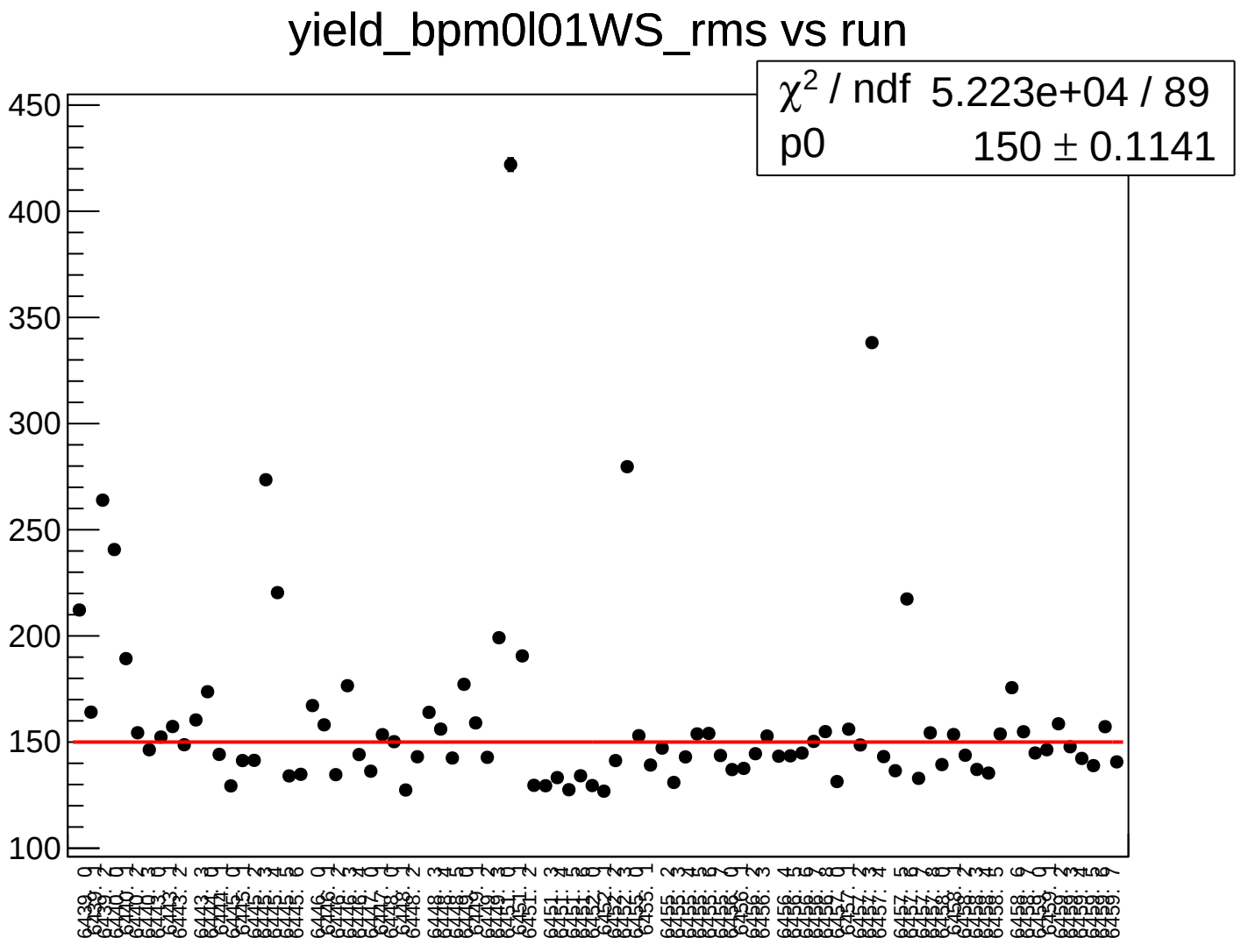

yield_bpm0i01aWS_mean vs run
×10^3
χ² / ndf 3.898e+06 / 89
p0 1.42e+05 ± 0.1748
142.5
142
141.5
141
140.5
pull
Entries 90
Mean 992.5
Std Dev 0
300
200
100
0
−100
−200
−300

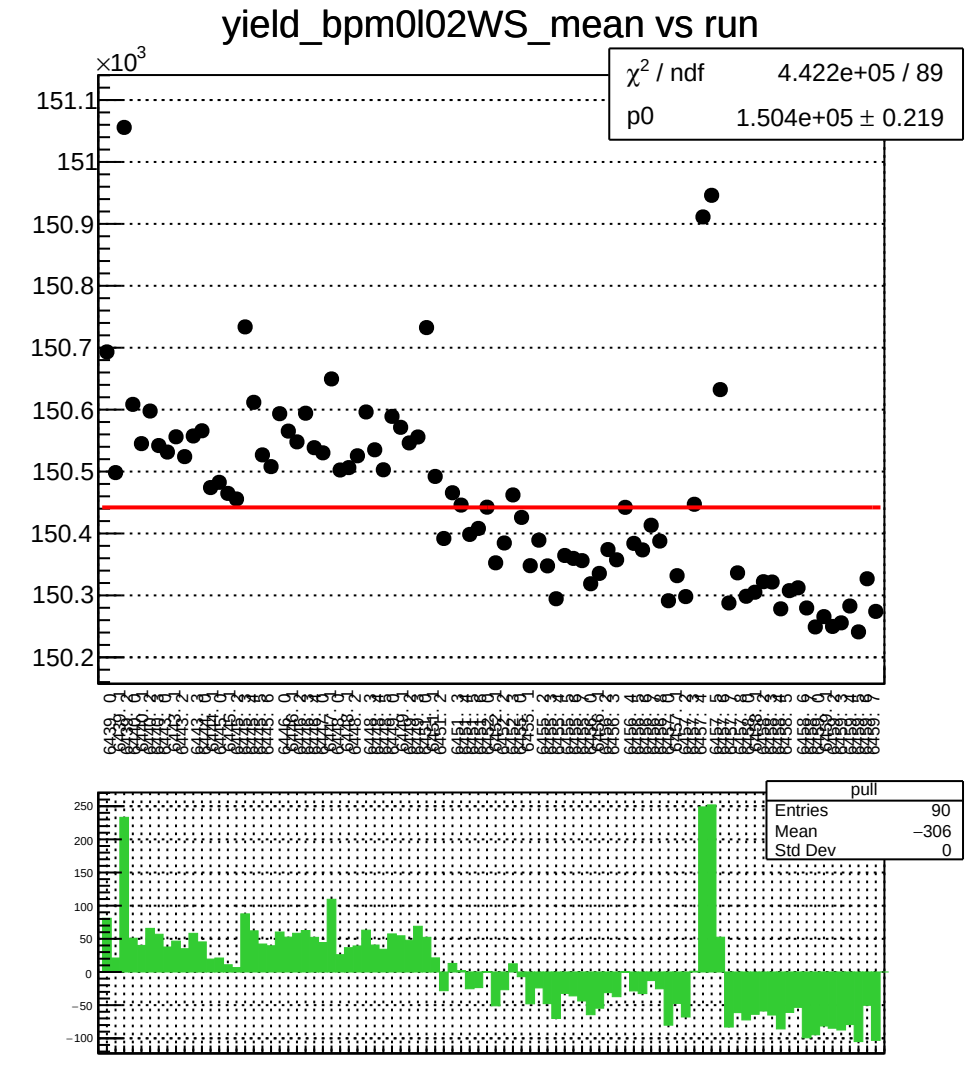

pull1D
Entries 90
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

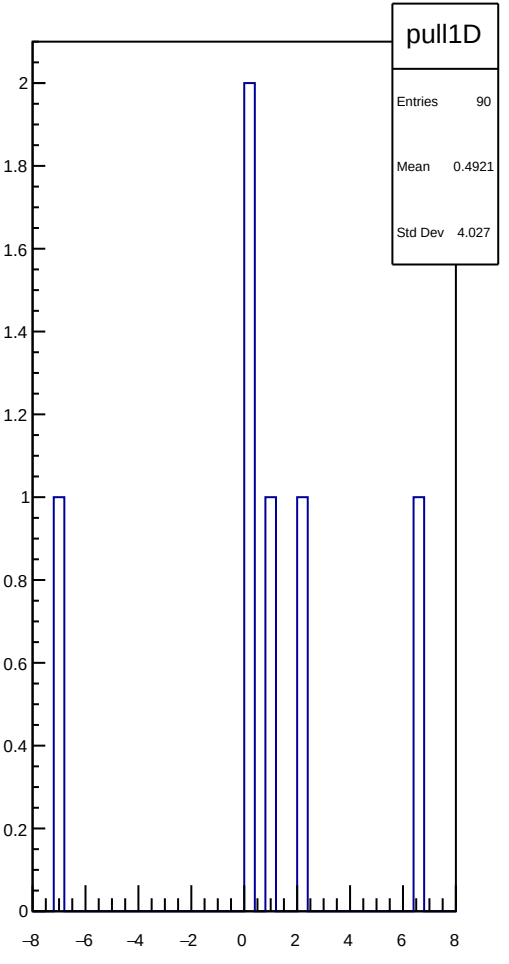

yield_bpm0i01aWS_rms vs run
χ² / ndf 6.956e+04 / 89
p0 161.8 ± 0.1236
1000
900
800
700
600
500
400
300
200
100

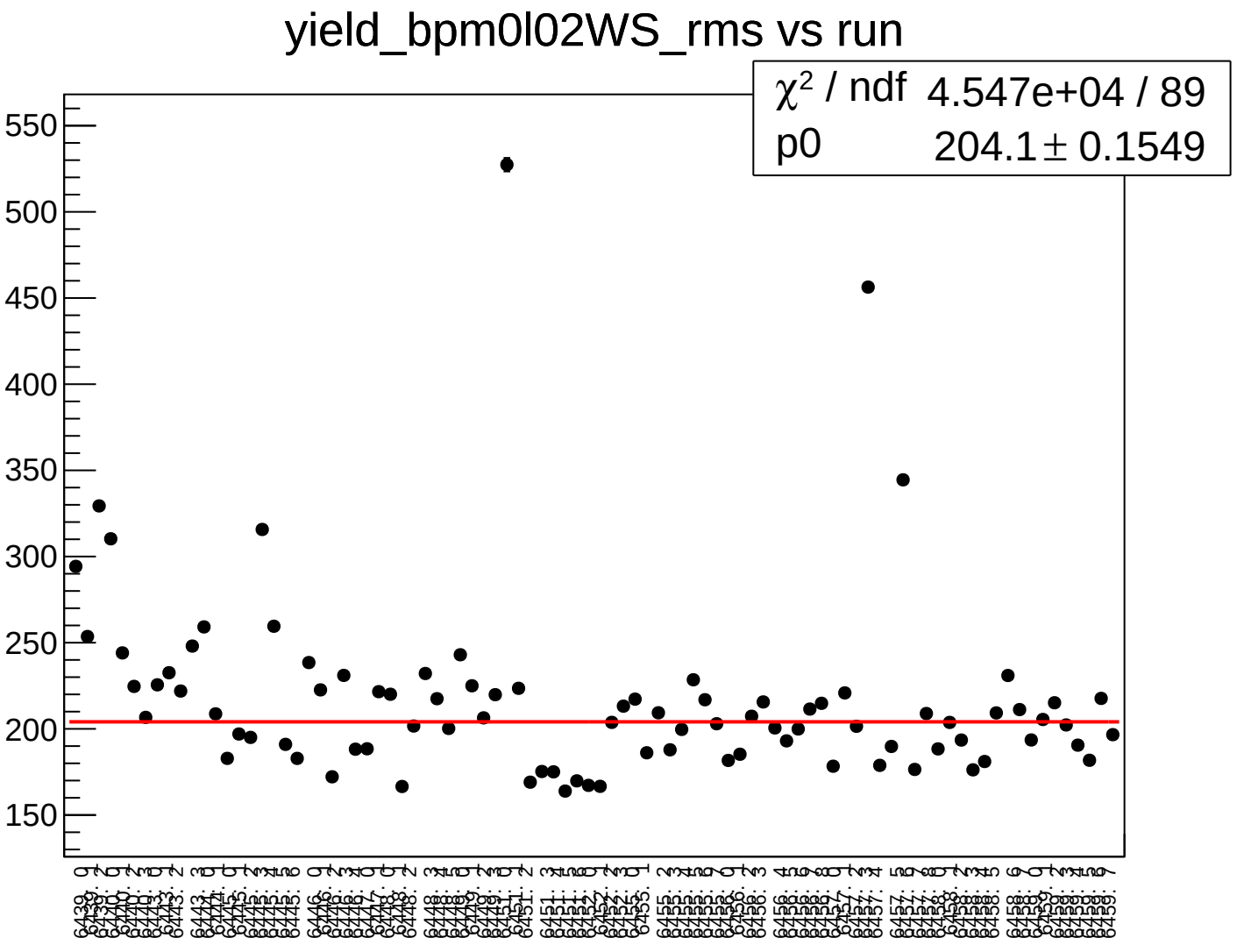

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 7.926e+05 / 89
p0 1.277e+05 ± 0.1613
128
127.8
127.6
127.4
127.2
127
pull
Entries 90
Mean −38.92
Std Dev 0
200
100
0
−100
−200
−300

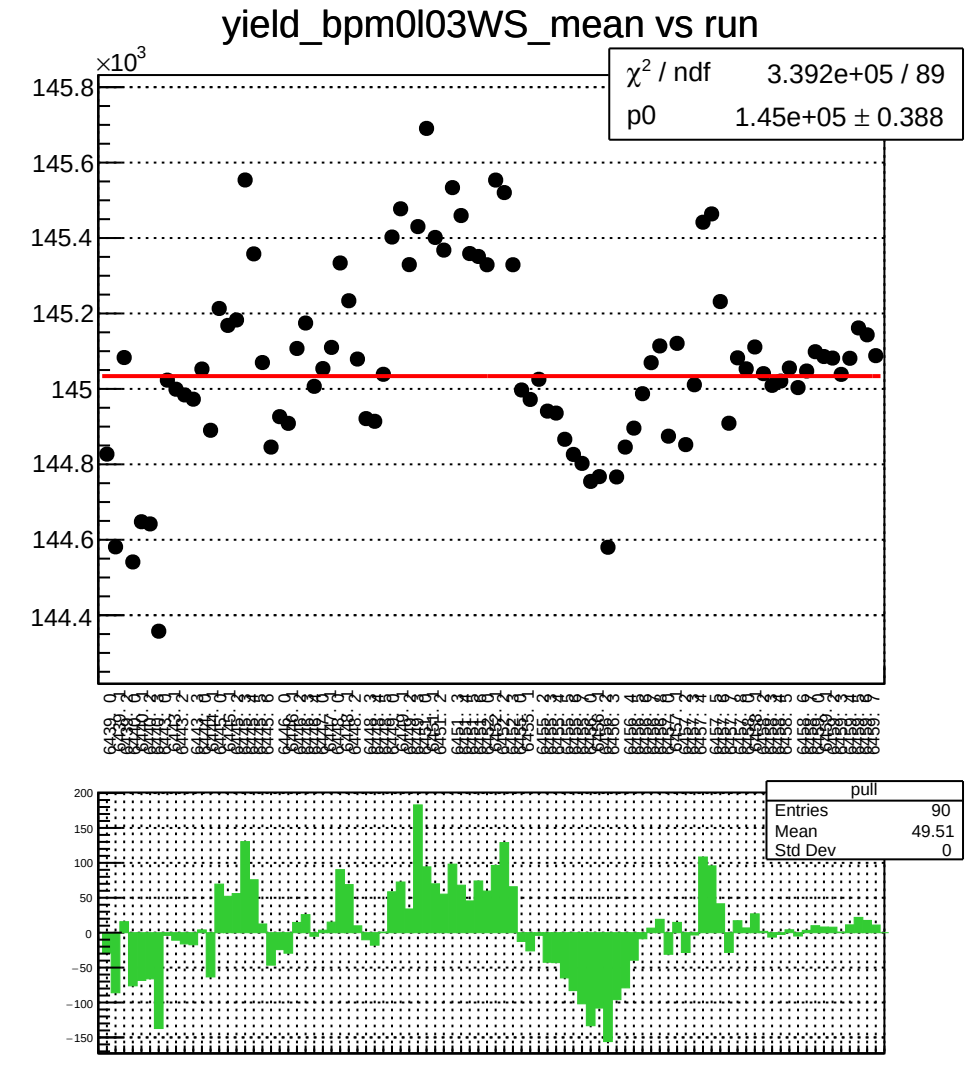

pull1D
Entries 90
Mean 0.1576
Std Dev 4.245
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

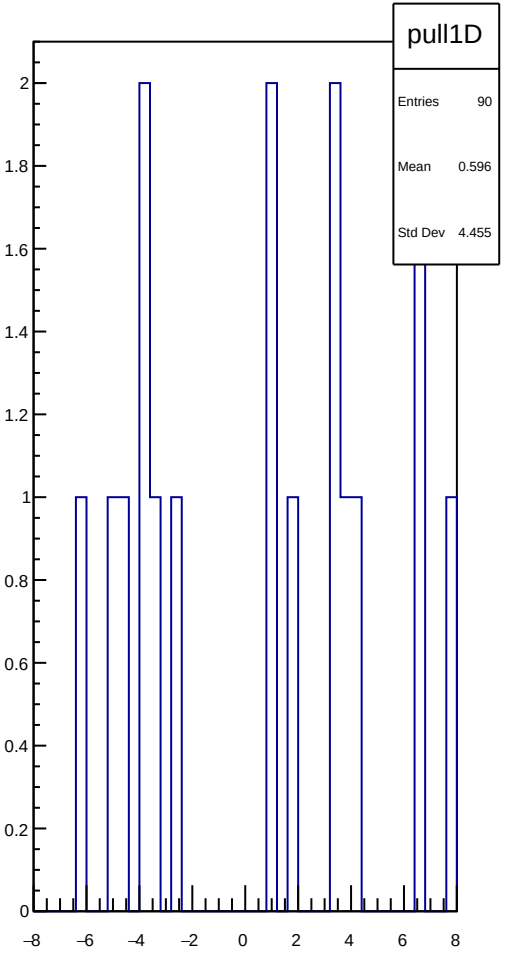

yield_bpm0l01WS_rms vs run
χ^2 / ndf 5.223e+04 / 89
p0 150 ± 0.1141
450
400
350
300
250
200
150
100

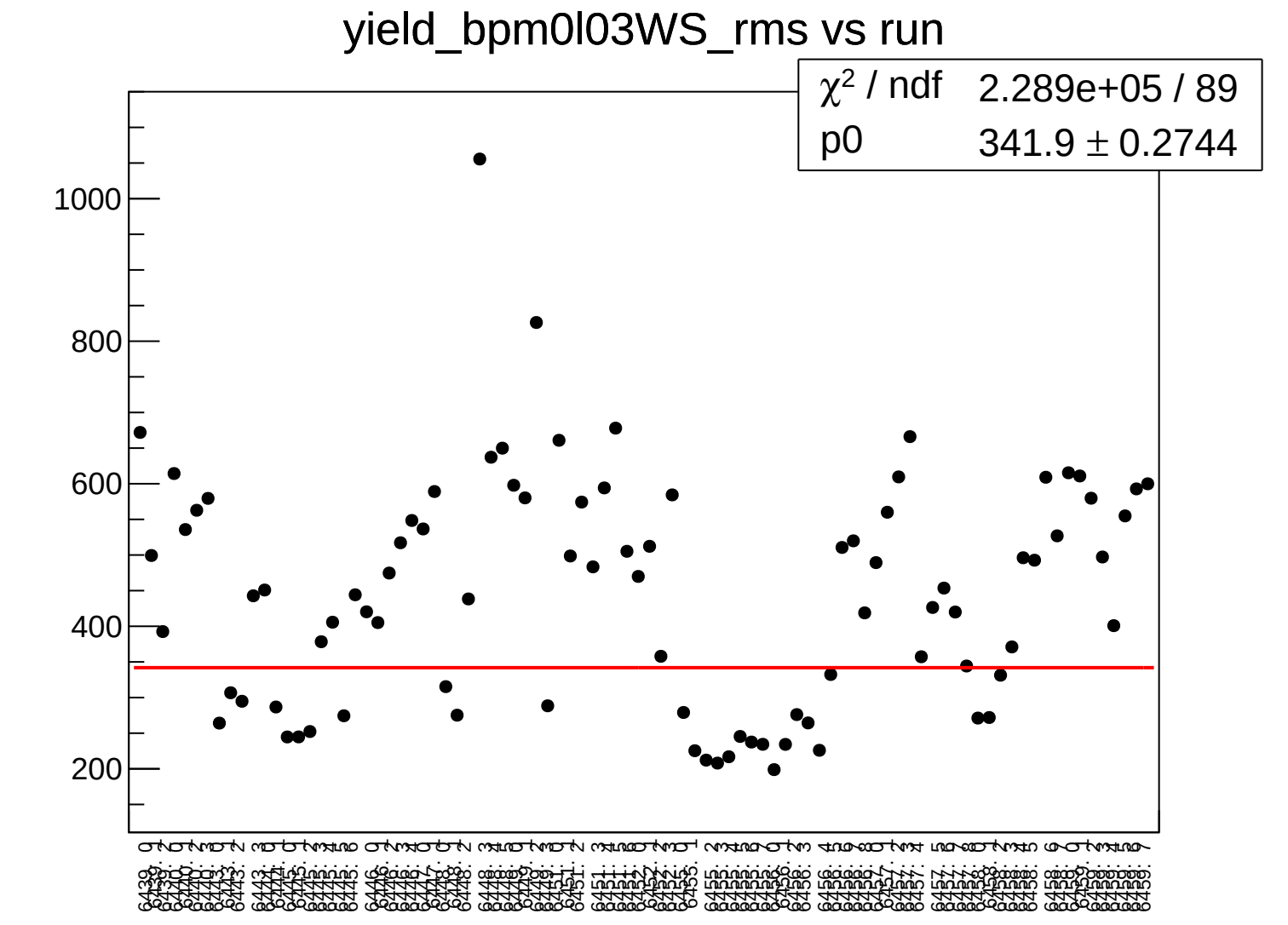

yield_bpm0l02WS_mean vs run
×10^3
χ² / ndf 4.422e+05 / 89
p0 1.504e+05 ± 0.219
151.1
151
150.9
150.8
150.7
150.6
150.5
150.4
150.3
150.2
pull
Entries 90
Mean −306
Std Dev 0
250
200
150
100
50
0
−50
−100

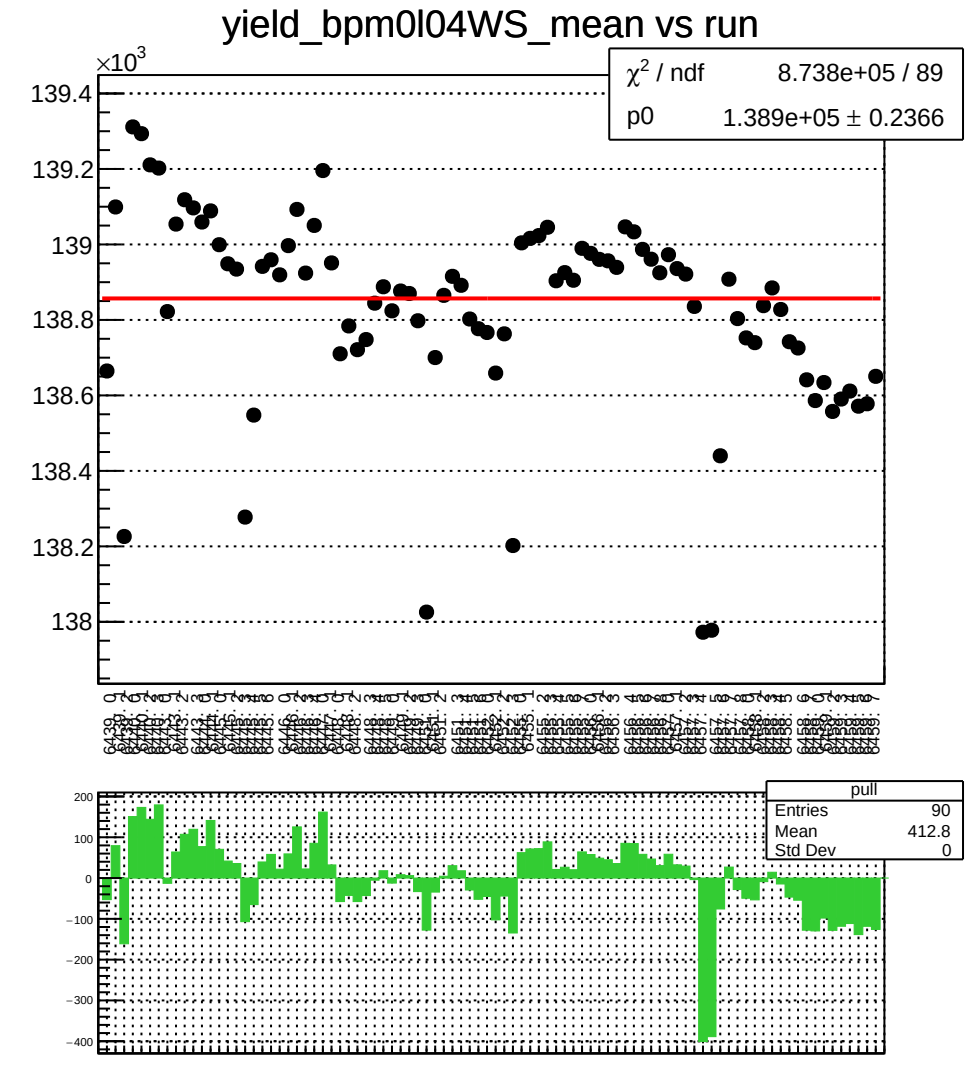

pull1D
Entries 90
Mean 0.4921
Std Dev 4.027
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

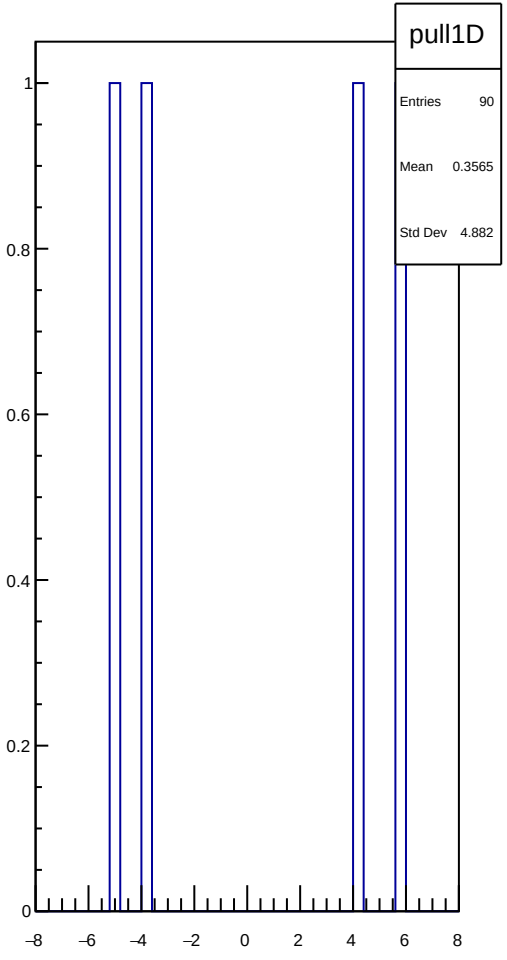

yield_bpm0l02WS_rms vs run
χ² / ndf 4.547e+04 / 89
p0 204.1 ± 0.1549
550
500
450
400
350
300
250
200
150

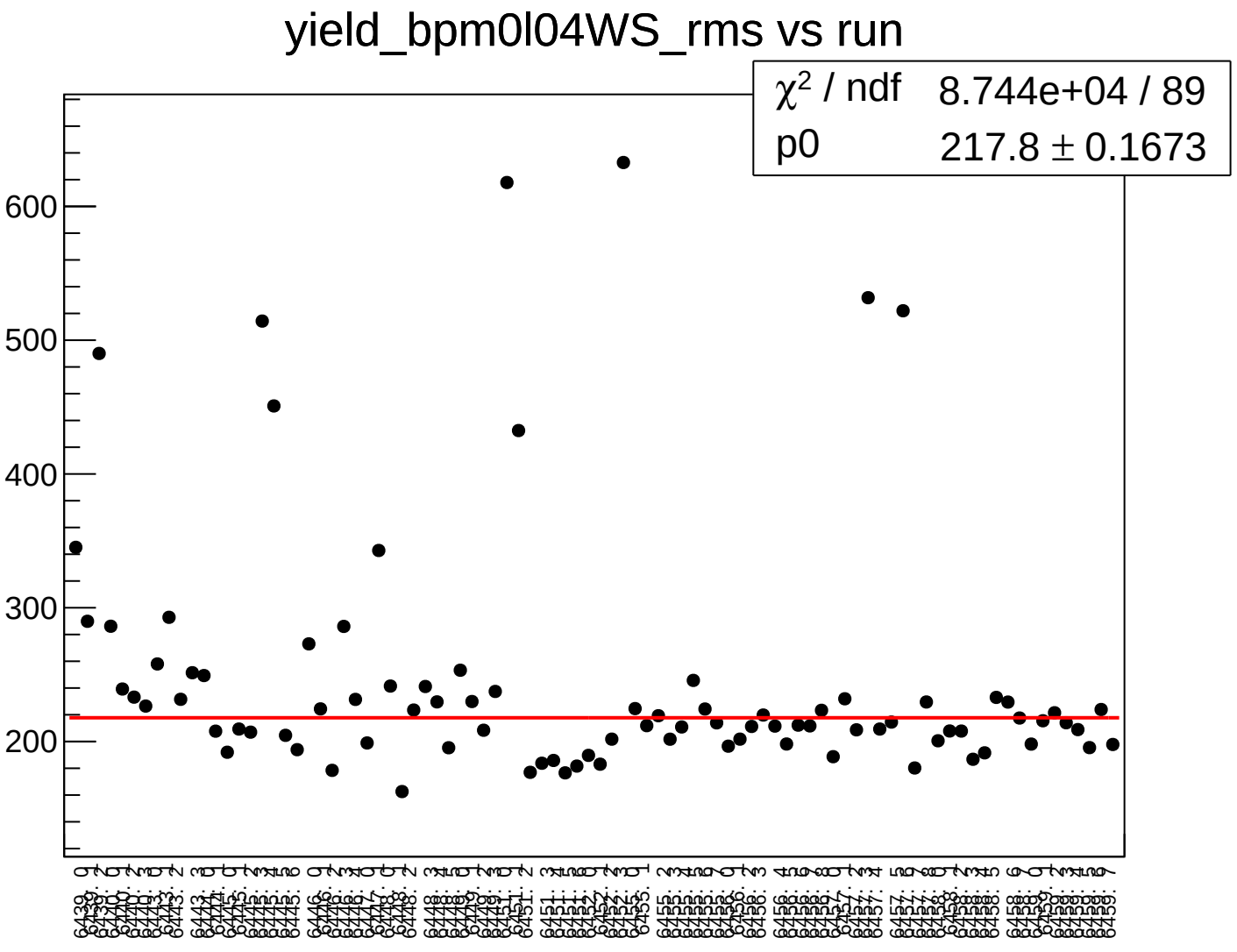

yield_bpm0l03WS_mean vs run
×10^3
145.8
145.6
145.4
145.2
145
144.8
144.6
144.4
χ² / ndf 3.392e+05 / 89
p0 1.45e+05 ± 0.388
pull
Entries 90
Mean 49.51
Std Dev 0
200
150
100
50
0
−50
−100
−150

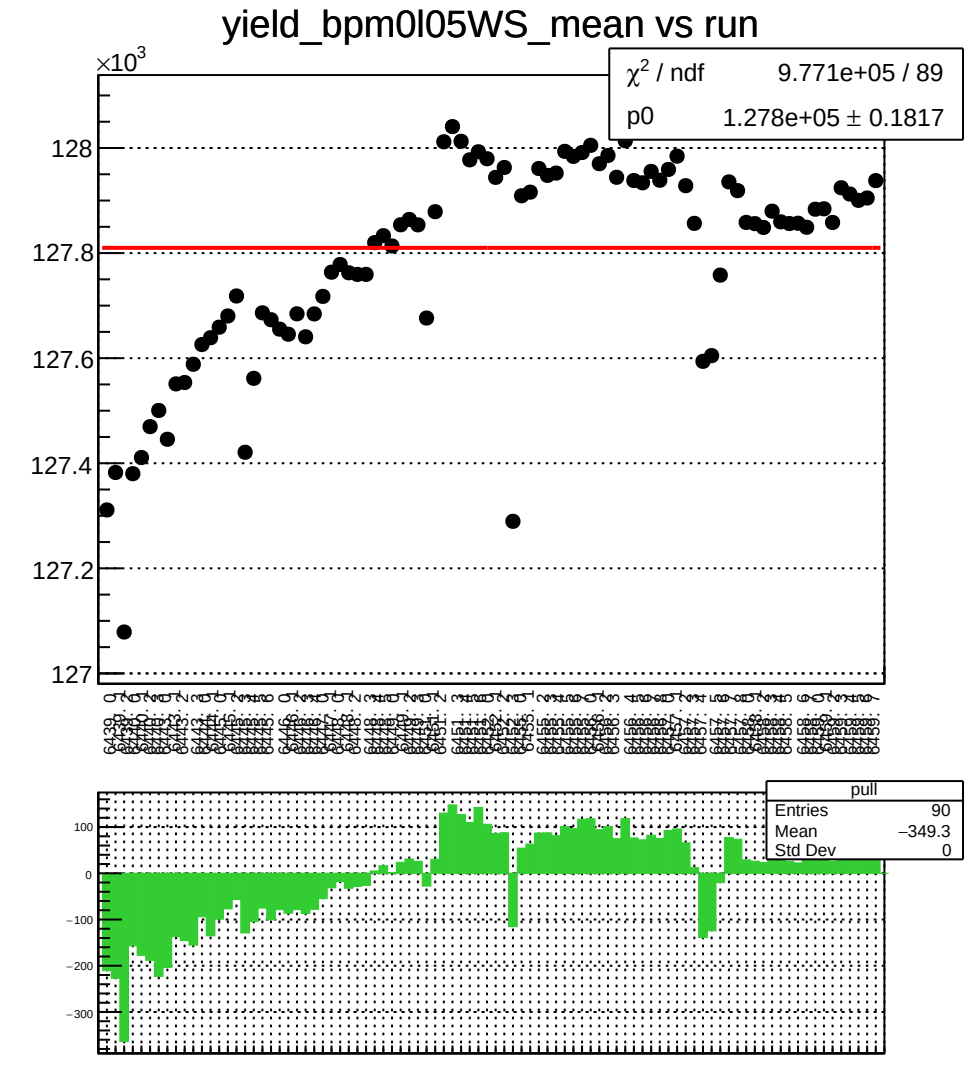

pull1D
Entries 90
Mean 0.596
Std Dev 4.455
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

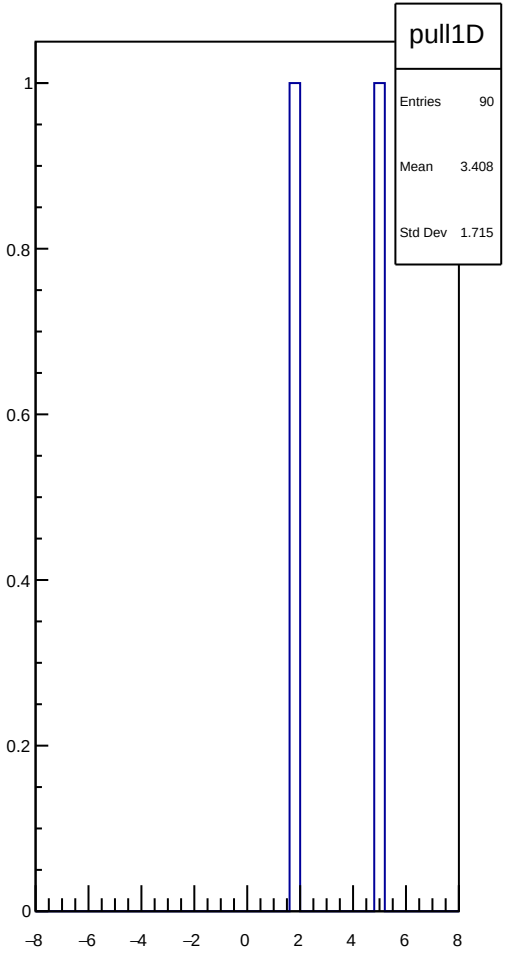

yield_bpm0l03WS_rms vs run
χ^2 / ndf 2.289e+05 / 89
p0 341.9 ± 0.2744
1000
800
600
400
200

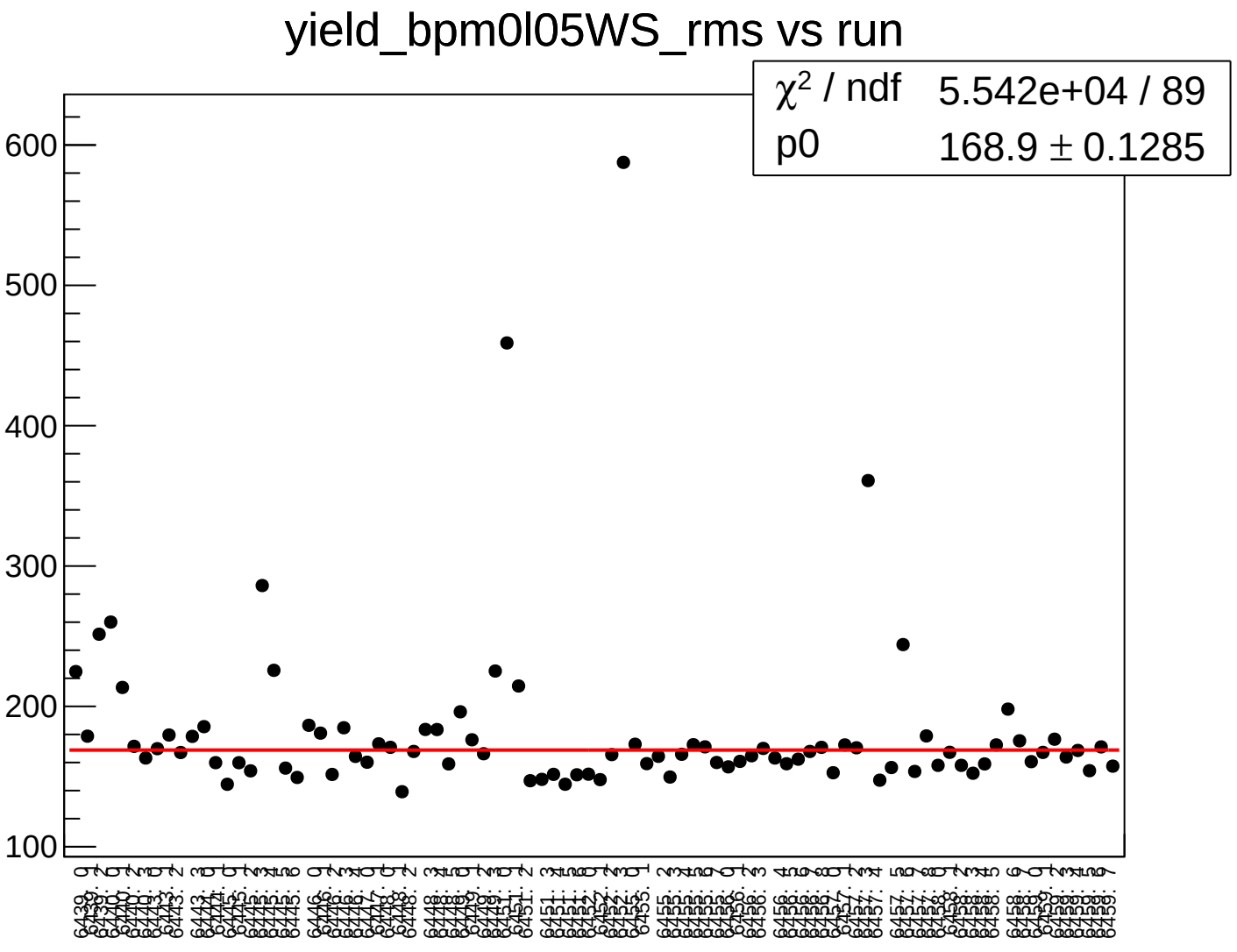

yield_bpm0l04WS_mean vs run
×10^3
χ^2 / ndf 8.738e+05 / 89
p0 1.389e+05 ± 0.2366
139.4
139.2
139
138.8
138.6
138.4
138.2
138
pull
Entries 90
Mean 412.8
Std Dev 0
200
100
0
−100
−200
−300
−400

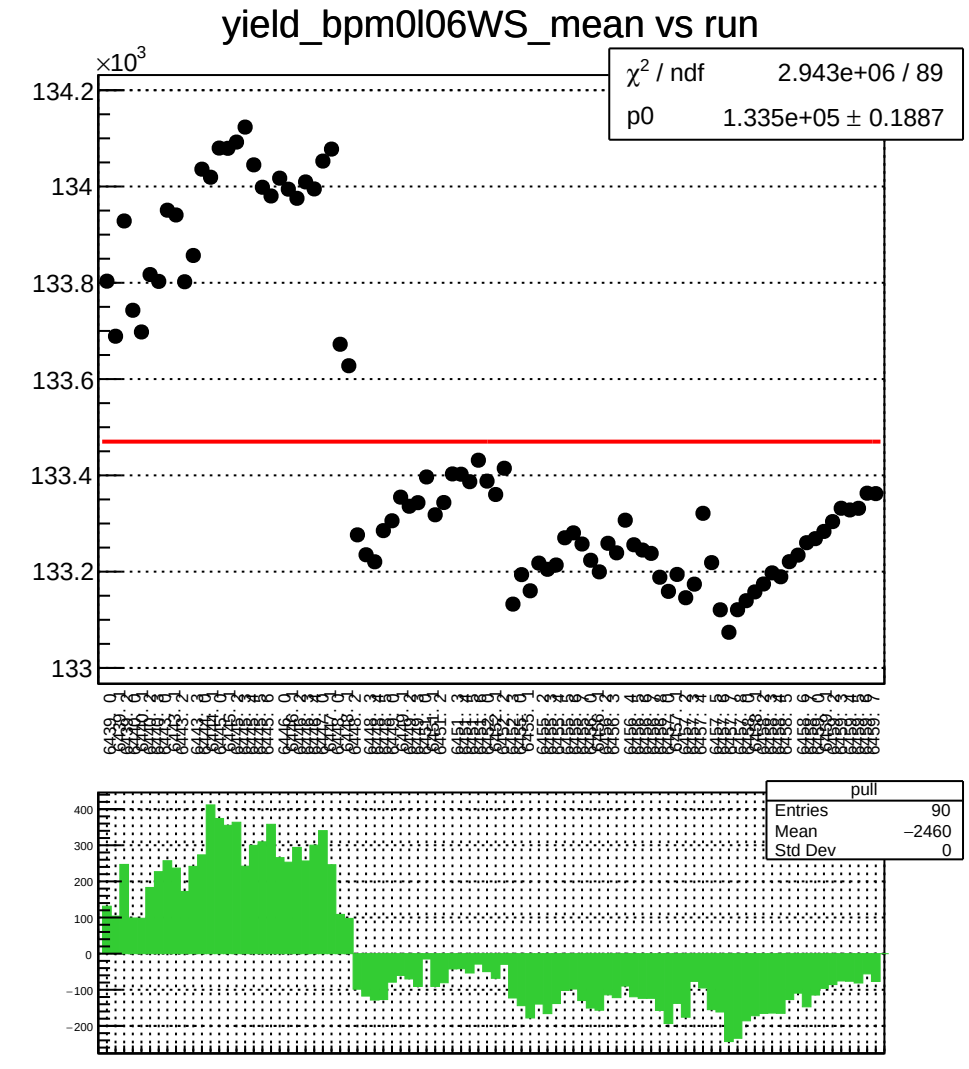

pull1D
Entries 90
Mean 0.3565
Std Dev 4.882
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

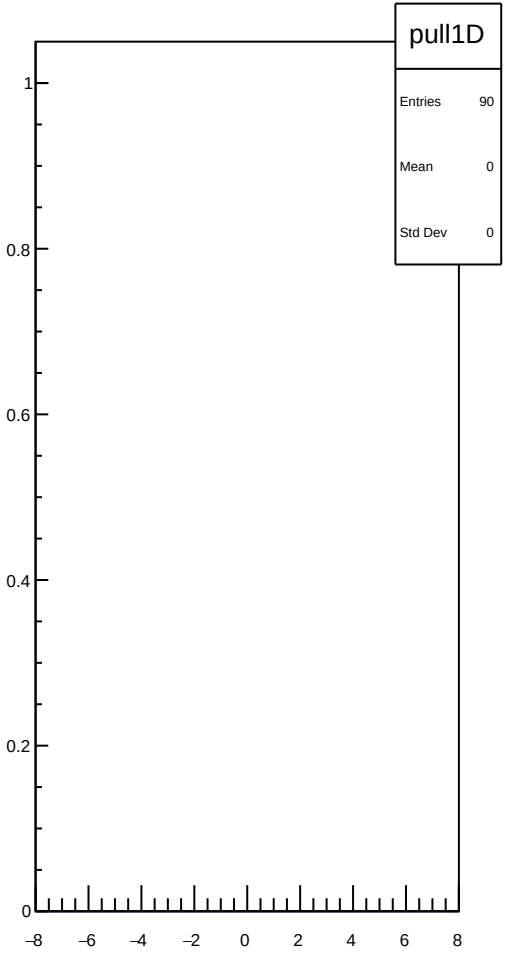

yield_bpm0l04WS_rms vs run
χ² / ndf 8.744e+04 / 89
p0 217.8 ± 0.1673
600
500
400
300
200

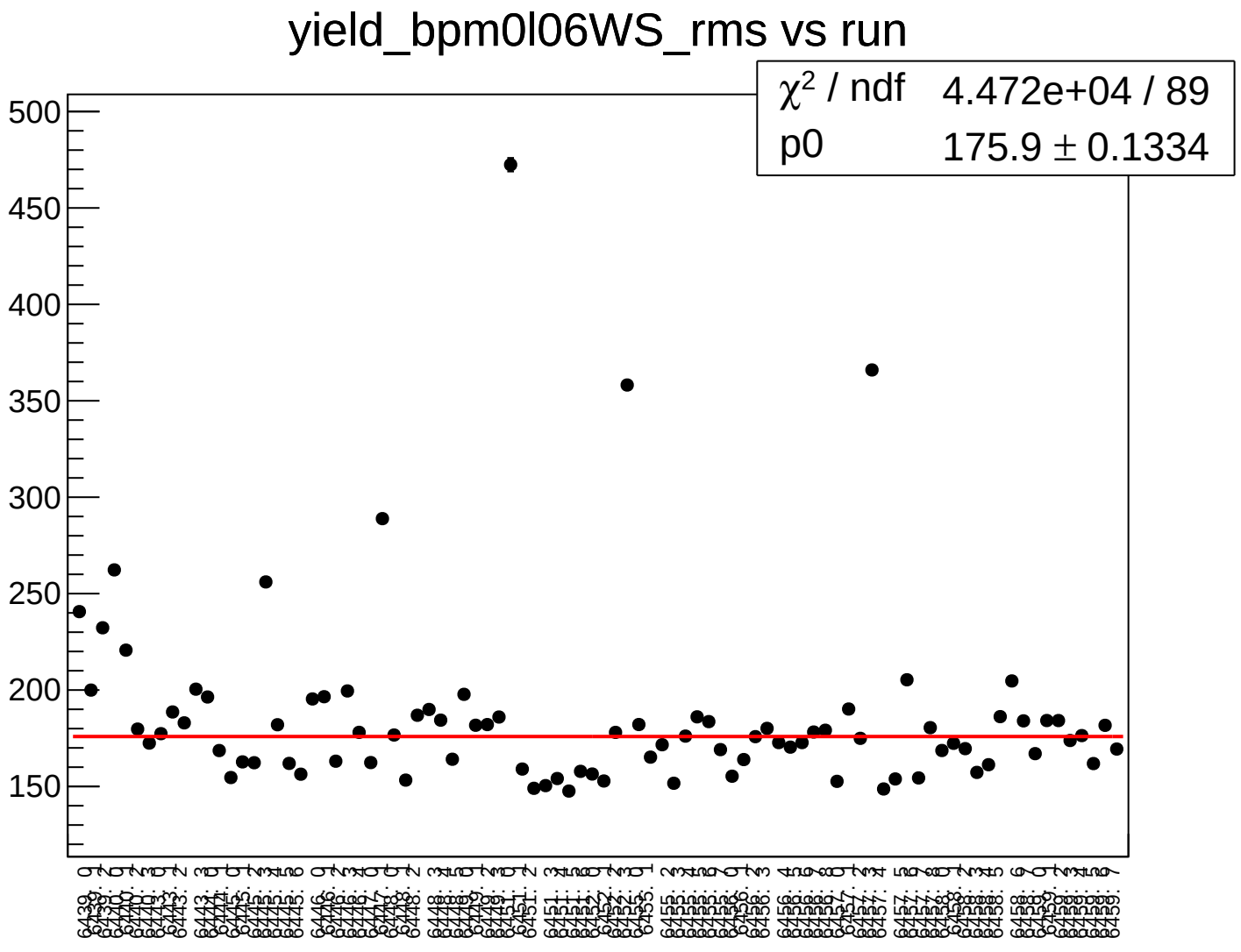

yield_bpm0l05WS_mean vs run
×10^3
χ² / ndf 9.771e+05 / 89
p0 1.278e+05 ± 0.1817
128
127.8
127.6
127.4
127.2
127
pull
Entries 90
Mean −349.3
Std Dev 0
100
0
−100
−200
−300

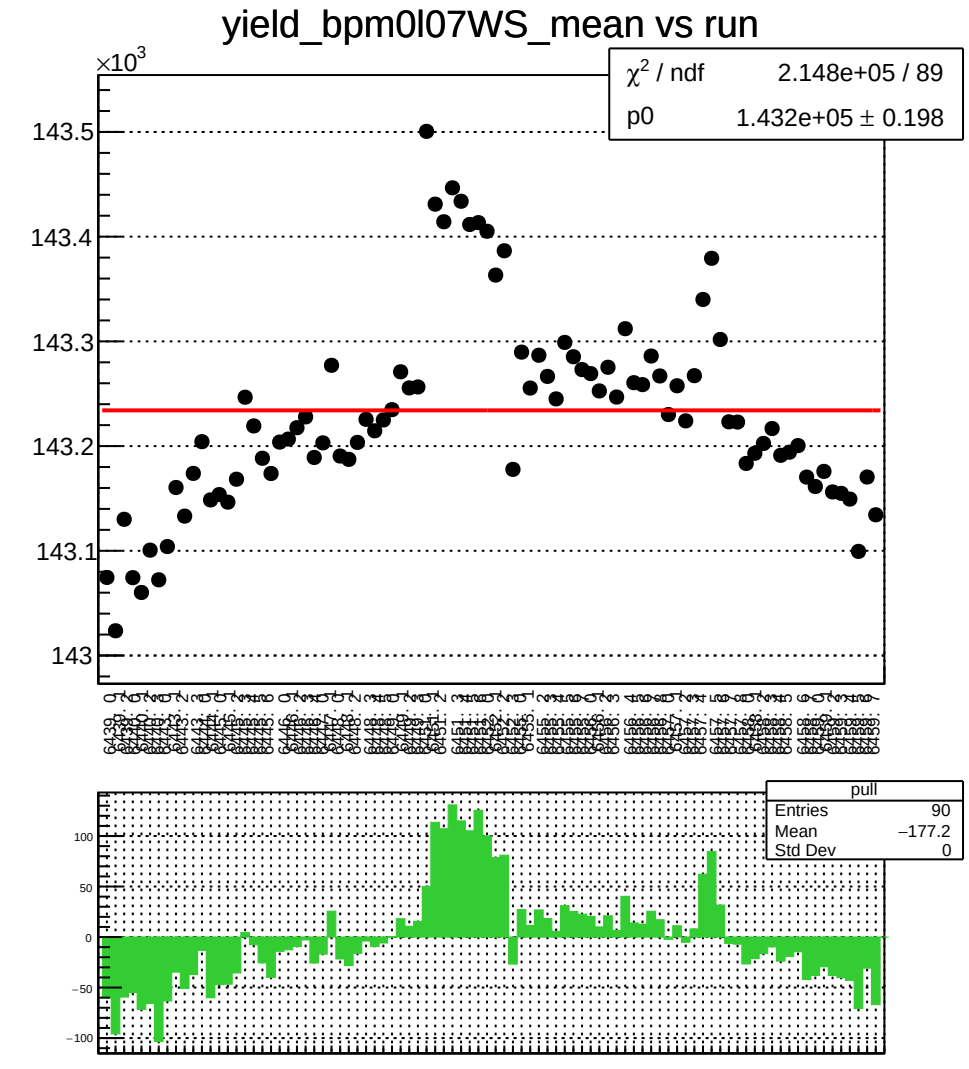

pull1D
Entries 90
Mean 3.408
Std Dev 1.715
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

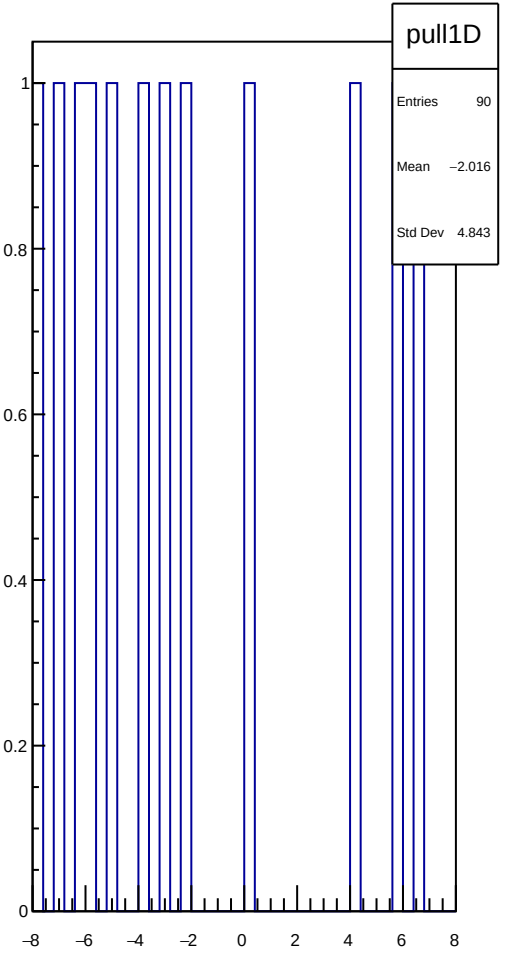

yield_bpm0l05WS_rms vs run
χ² / ndf 5.542e+04 / 89
p0 168.9 ± 0.1285
600
500
400
300
200
100

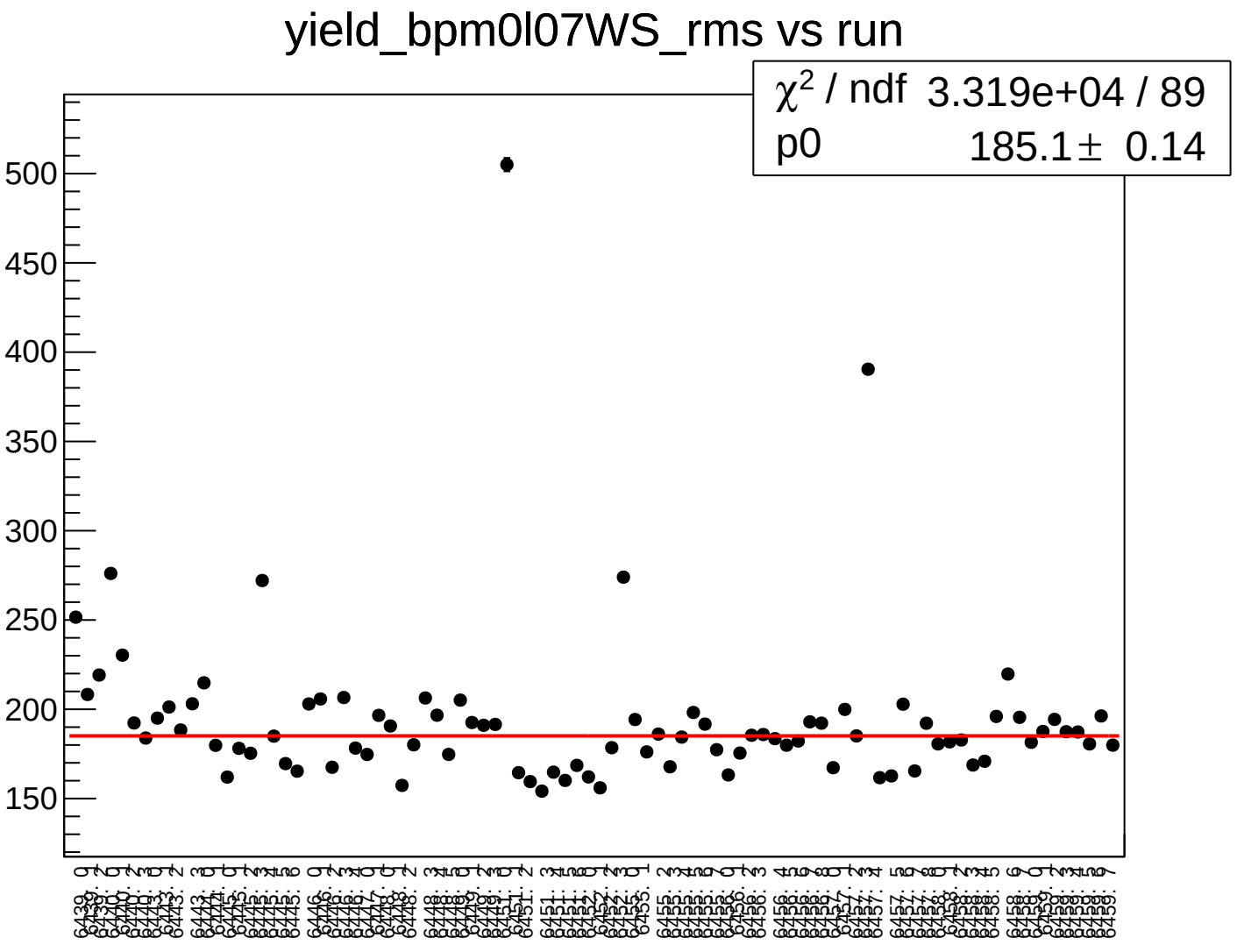

yield_bpm0l06WS_mean vs run
×10^3
χ² / ndf 2.943e+06 / 89
p0 1.335e+05 ± 0.1887
134.2
134
133.8
133.6
133.4
133.2
133
pull
Entries 90
Mean −2460
Std Dev 0
400
300
200
100
0
−100
−200

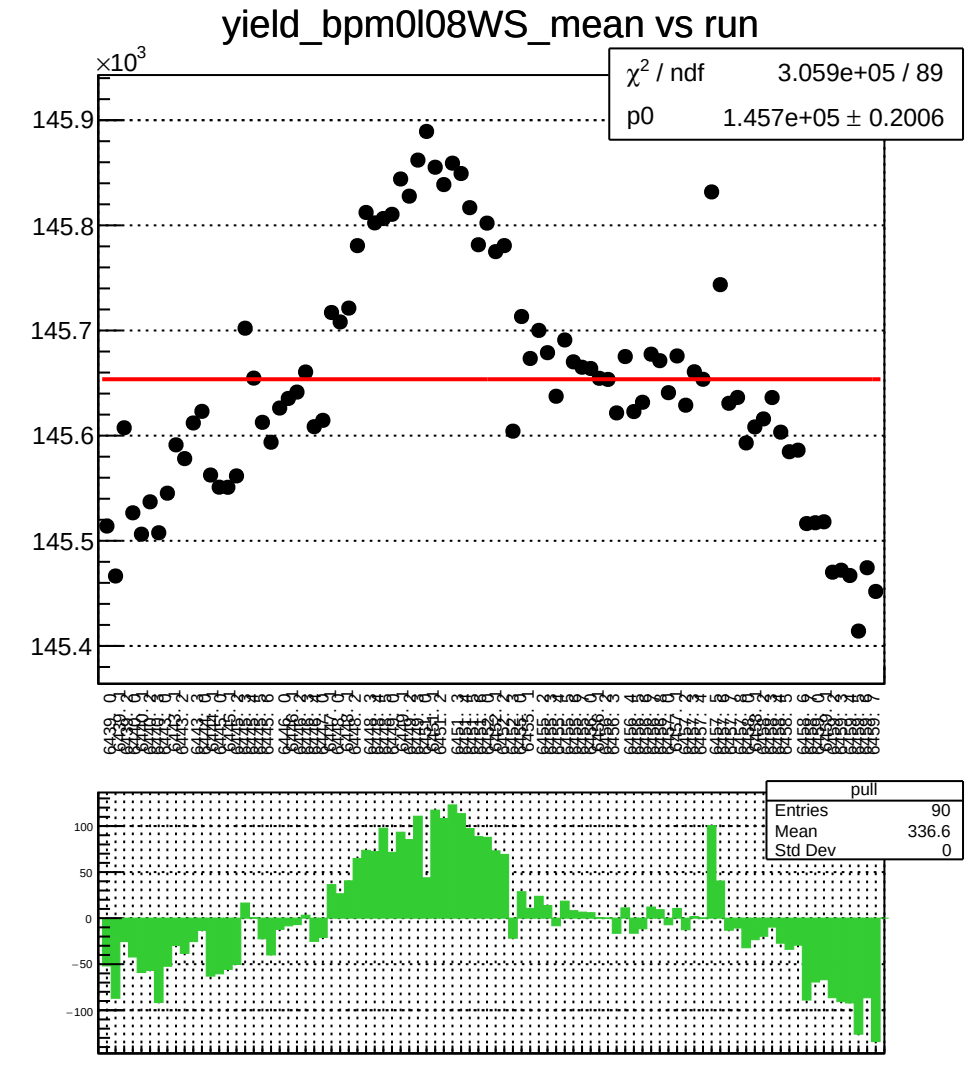

pull1D
Entries 90
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

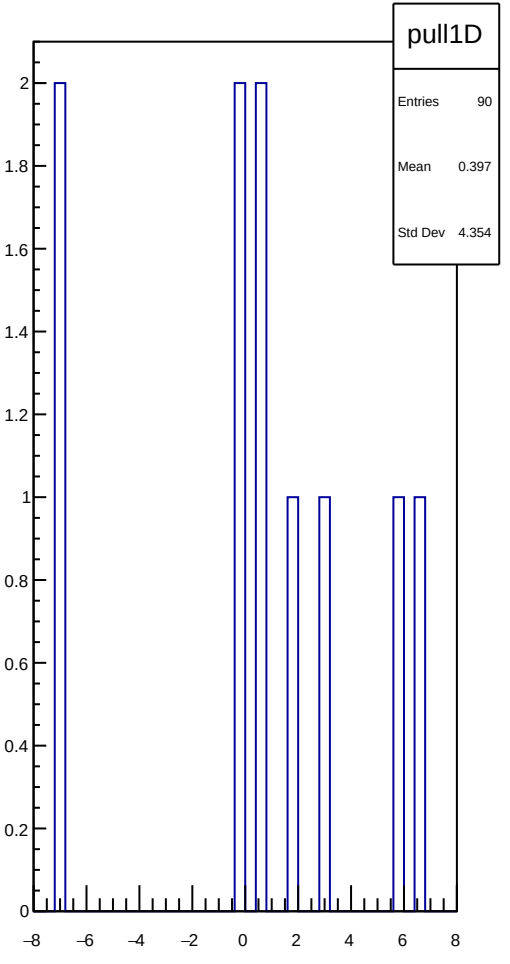

yield_bpm0l06WS_rms vs run
χ² / ndf 4.472e+04 / 89
p0 175.9 ± 0.1334
500
450
400
350
300
250
200
150

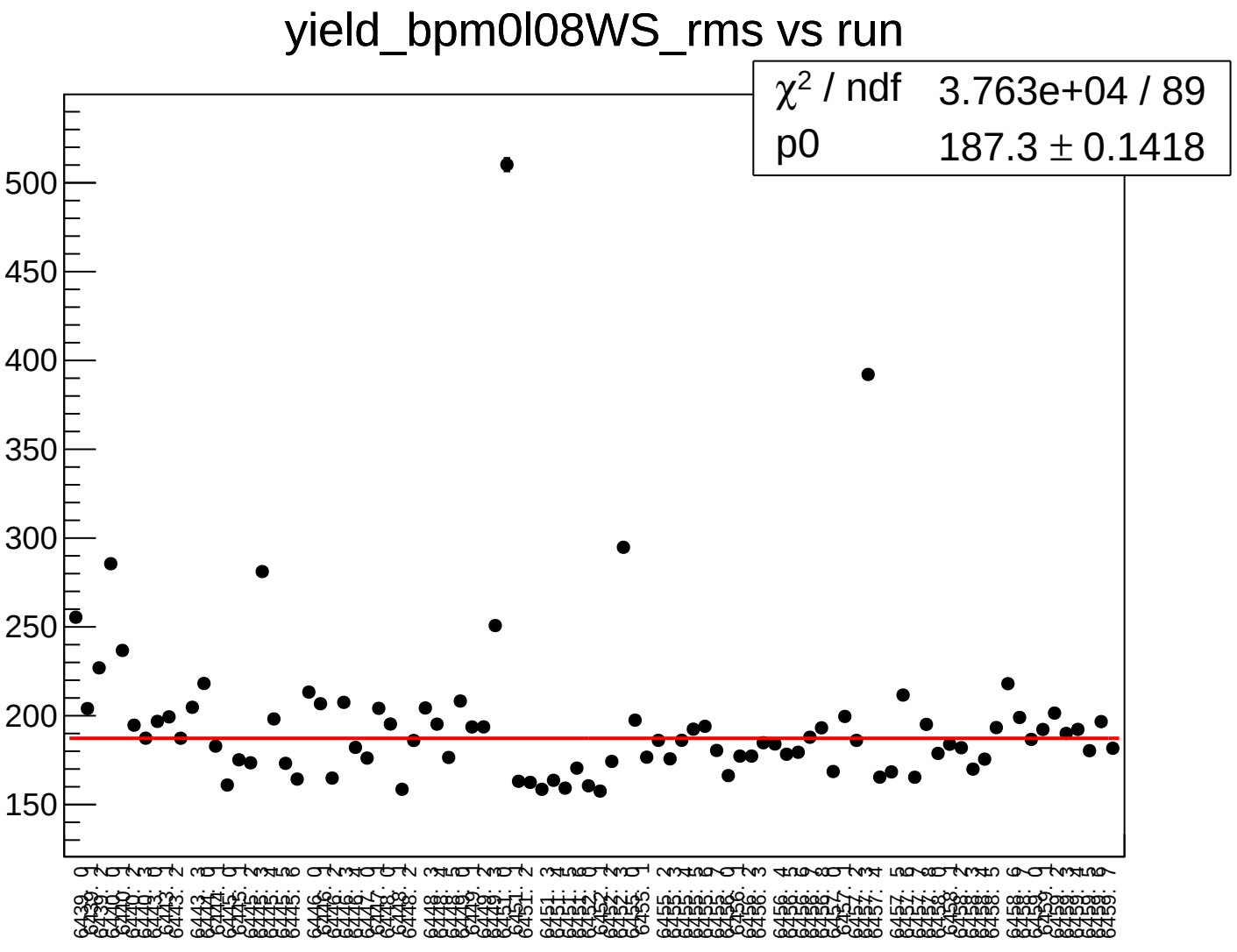

yield_bpm0l07WS_mean vs run
×10^3
χ² / ndf 2.148e+05 / 89
p0 1.432e+05 ± 0.198
143.5
143.4
143.3
143.2
143.1
143
pull
Entries 90
Mean −177.2
Std Dev 0
100
50
0
−50
−100

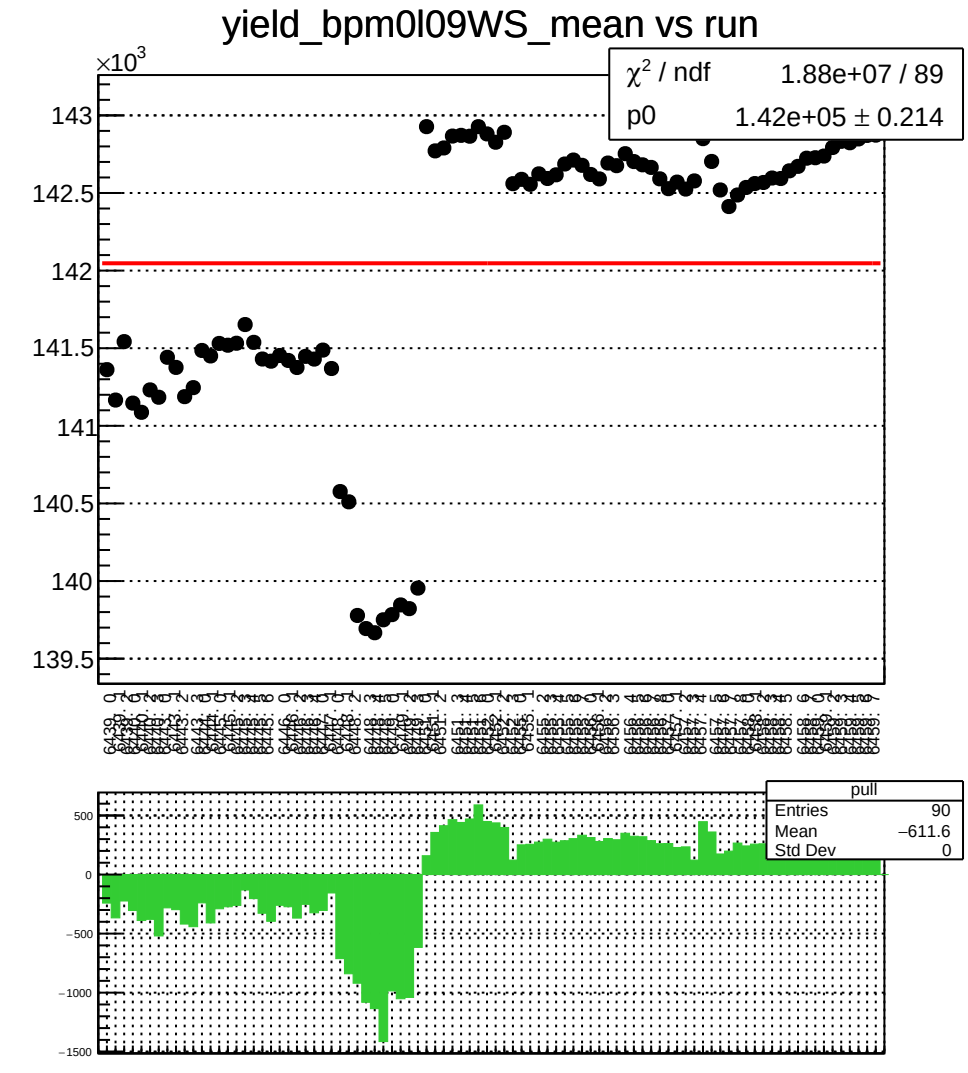

pull1D
Entries 90
Mean −2.016
Std Dev 4.843
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

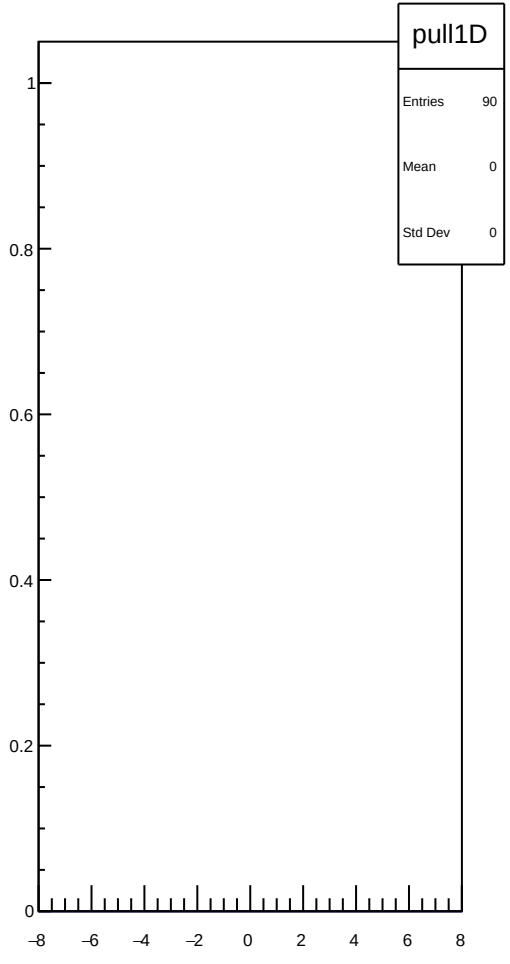

yield_bpm0l07WS_rms vs run
χ² / ndf 3.319e+04 / 89
p0 185.1 ± 0.14
500
450
400
350
300
250
200
150

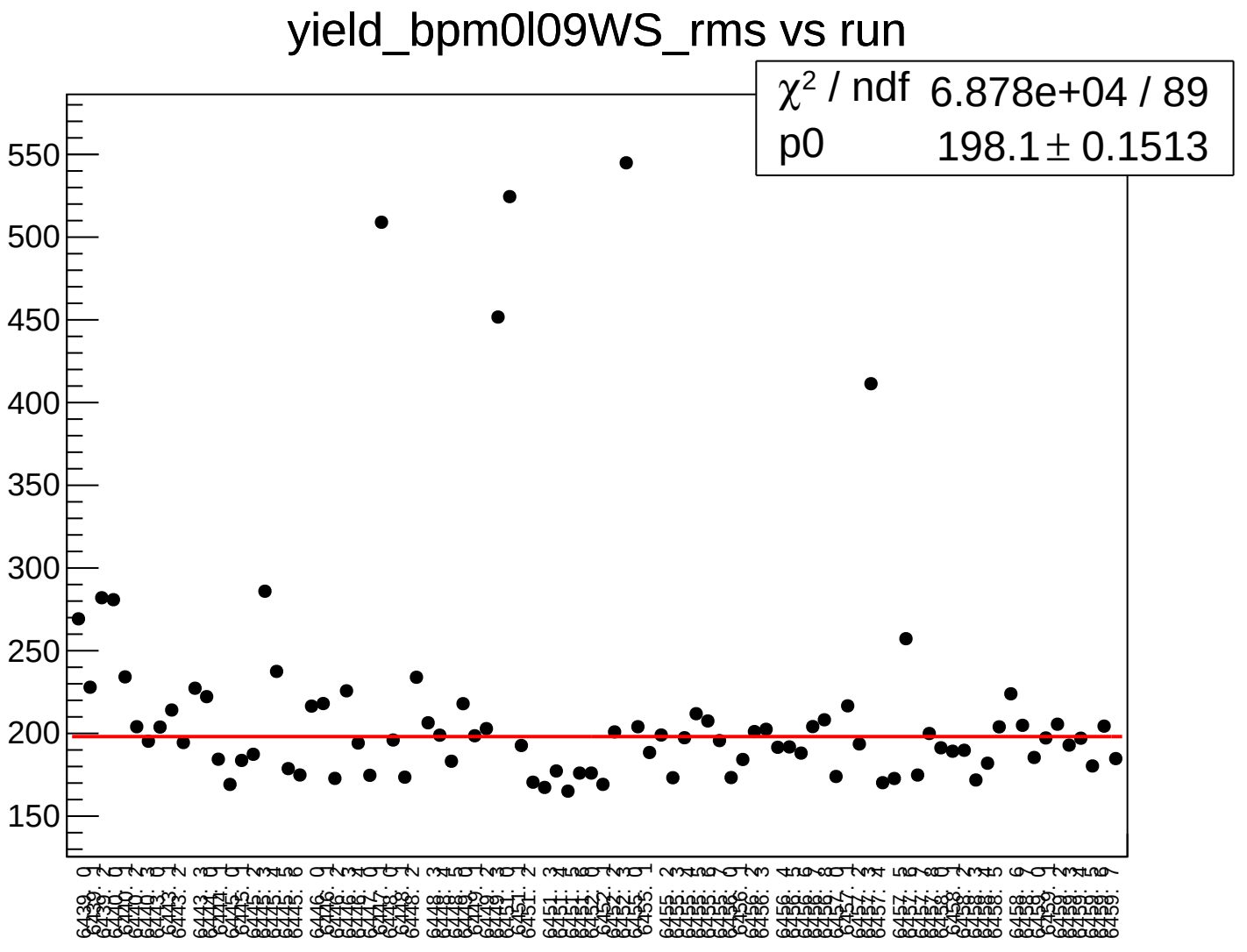

yield_bpm0l08WS_mean vs run
×10^3
χ² / ndf 3.059e+05 / 89
p0 1.457e+05 ± 0.2006
145.9
145.8
145.7
145.6
145.5
145.4
pull
Entries 90
Mean 336.6
Std Dev 0
100
50
0
−50
−100

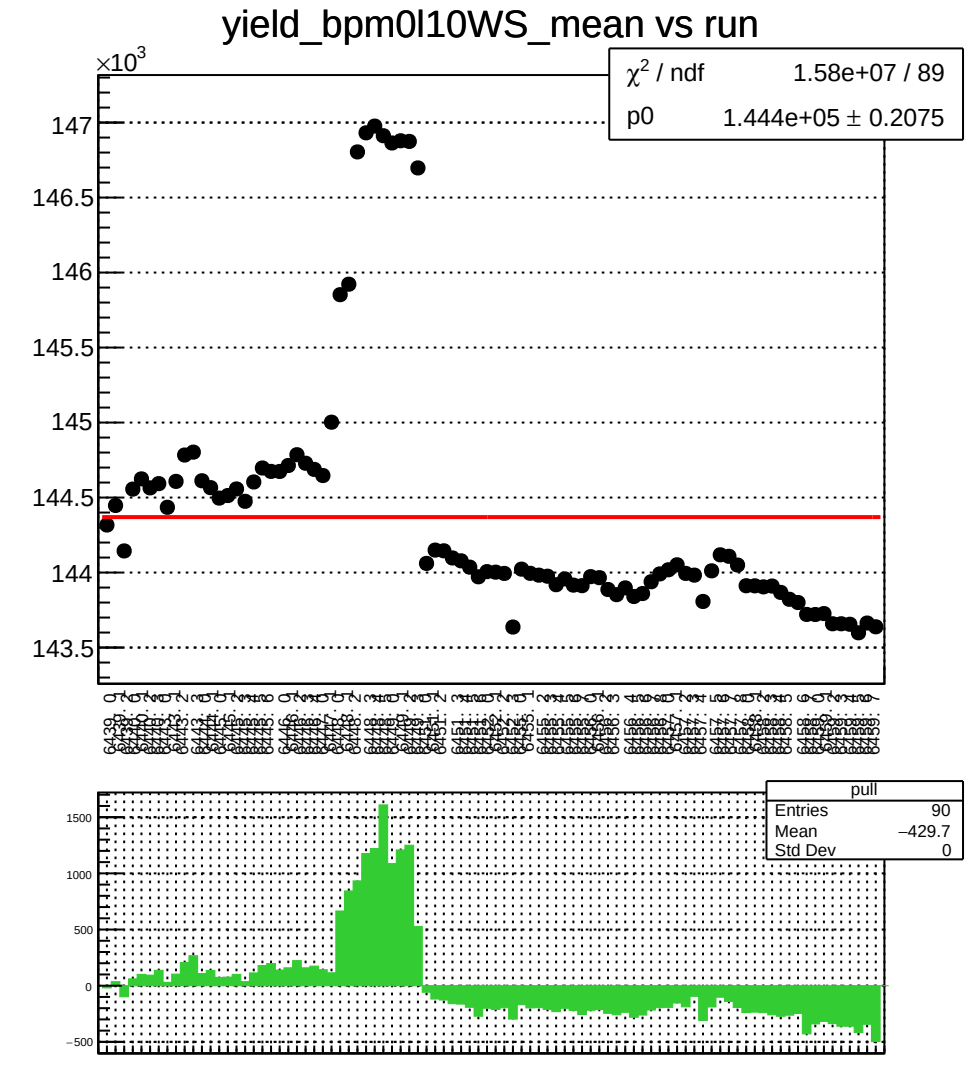

pull1D
Entries 90
Mean 0.397
Std Dev 4.354
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

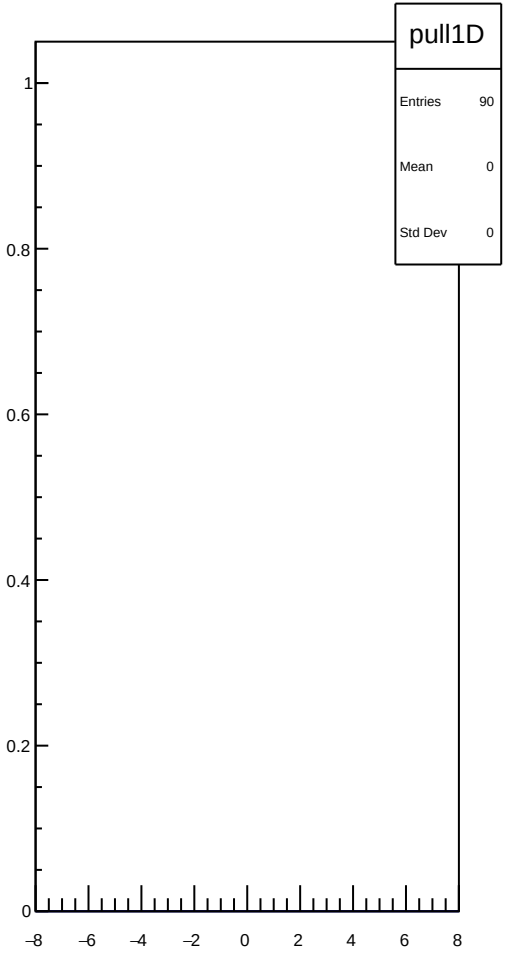

yield_bpm0l08WS_rms vs run
χ² / ndf 3.763e+04 / 89
p0 187.3 ± 0.1418
500
450
400
350
300
250
200
150

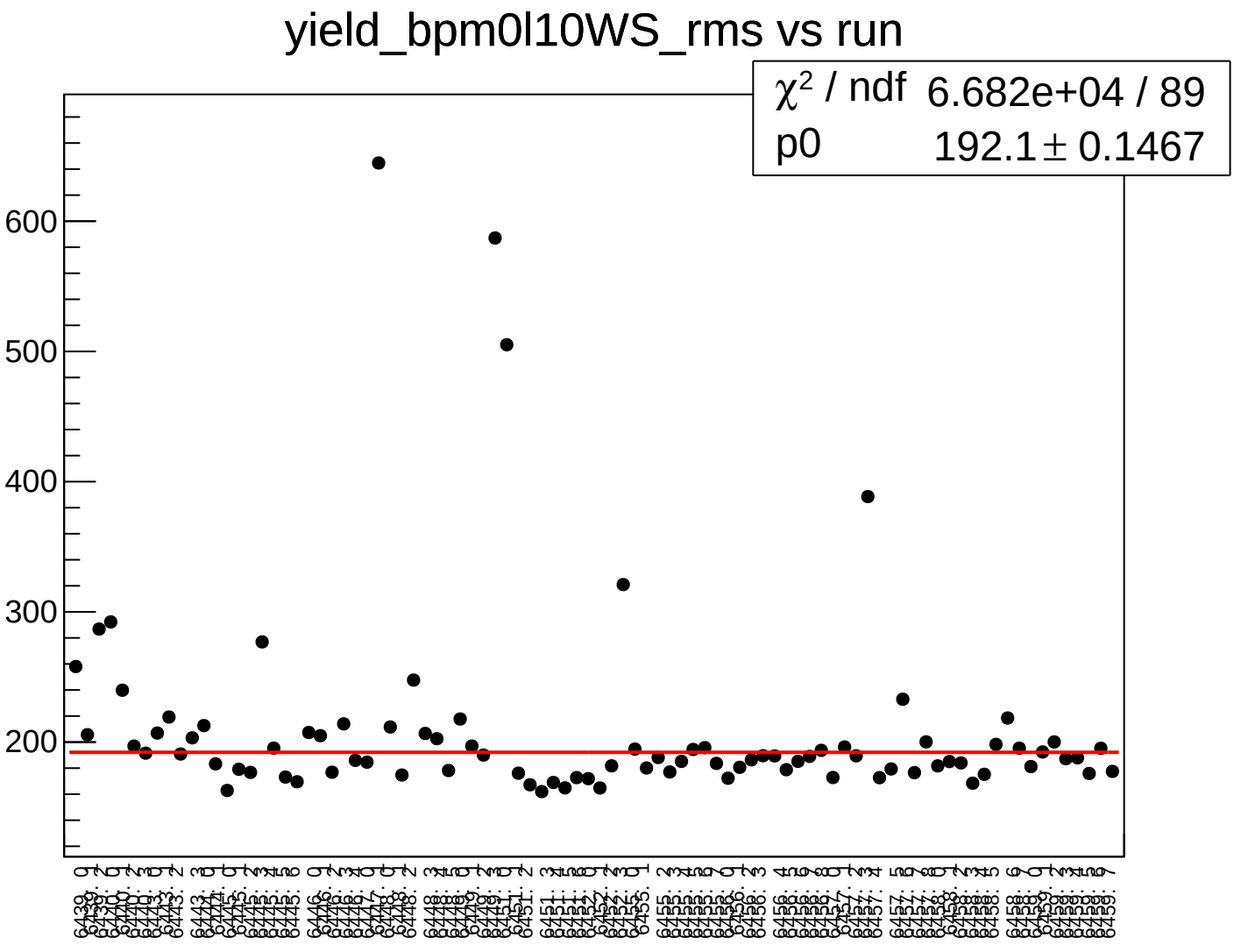

yield_bpm0l09WS_mean vs run
×10^3
χ² / ndf 1.88e+07 / 89
p0 1.42e+05 ± 0.214
143
142.5
142
141.5
141
140.5
140
139.5
pull
Entries 90
Mean −611.6
Std Dev 0
500
0
−500
−1000
−1500

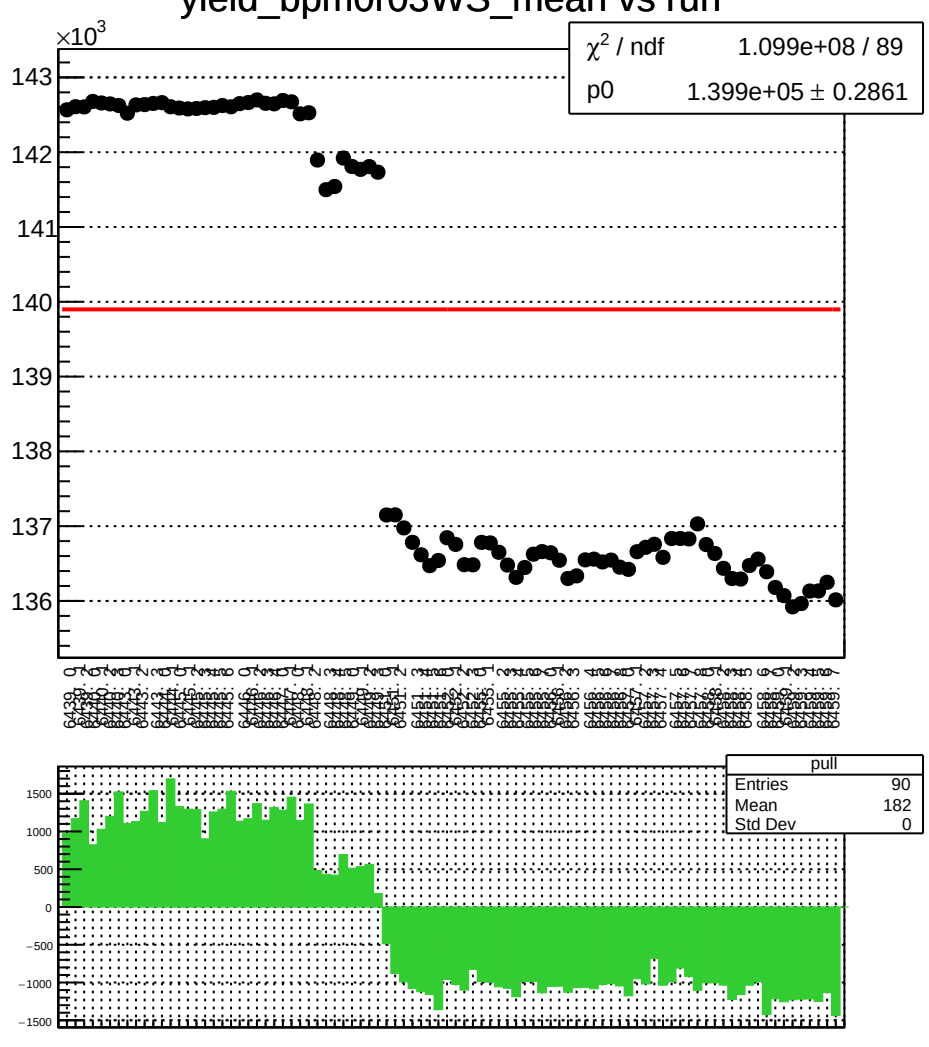

pull1D
Entries 90
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

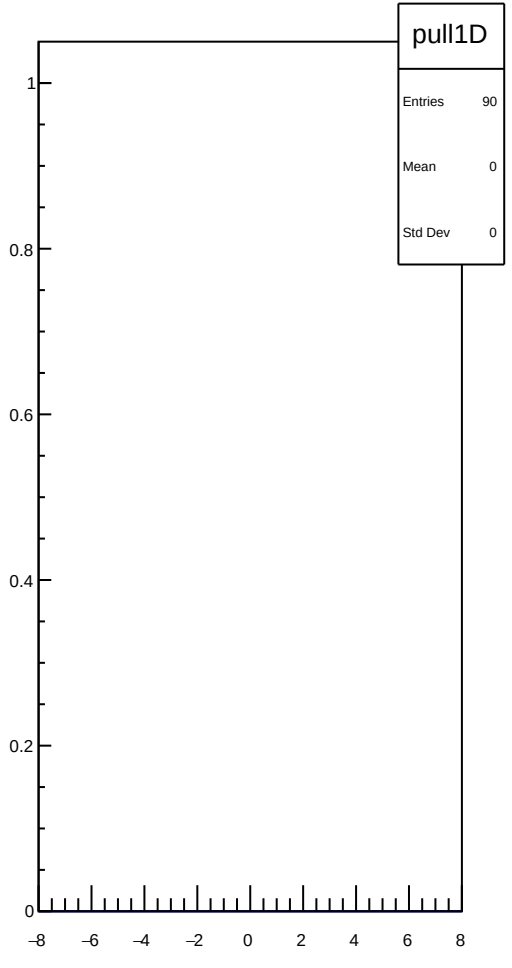

yield_bpm0l09WS_rms vs run
χ² / ndf 6.878e+04 / 89
p0 198.1 ± 0.1513
550
500
450
400
350
300
250
200
150

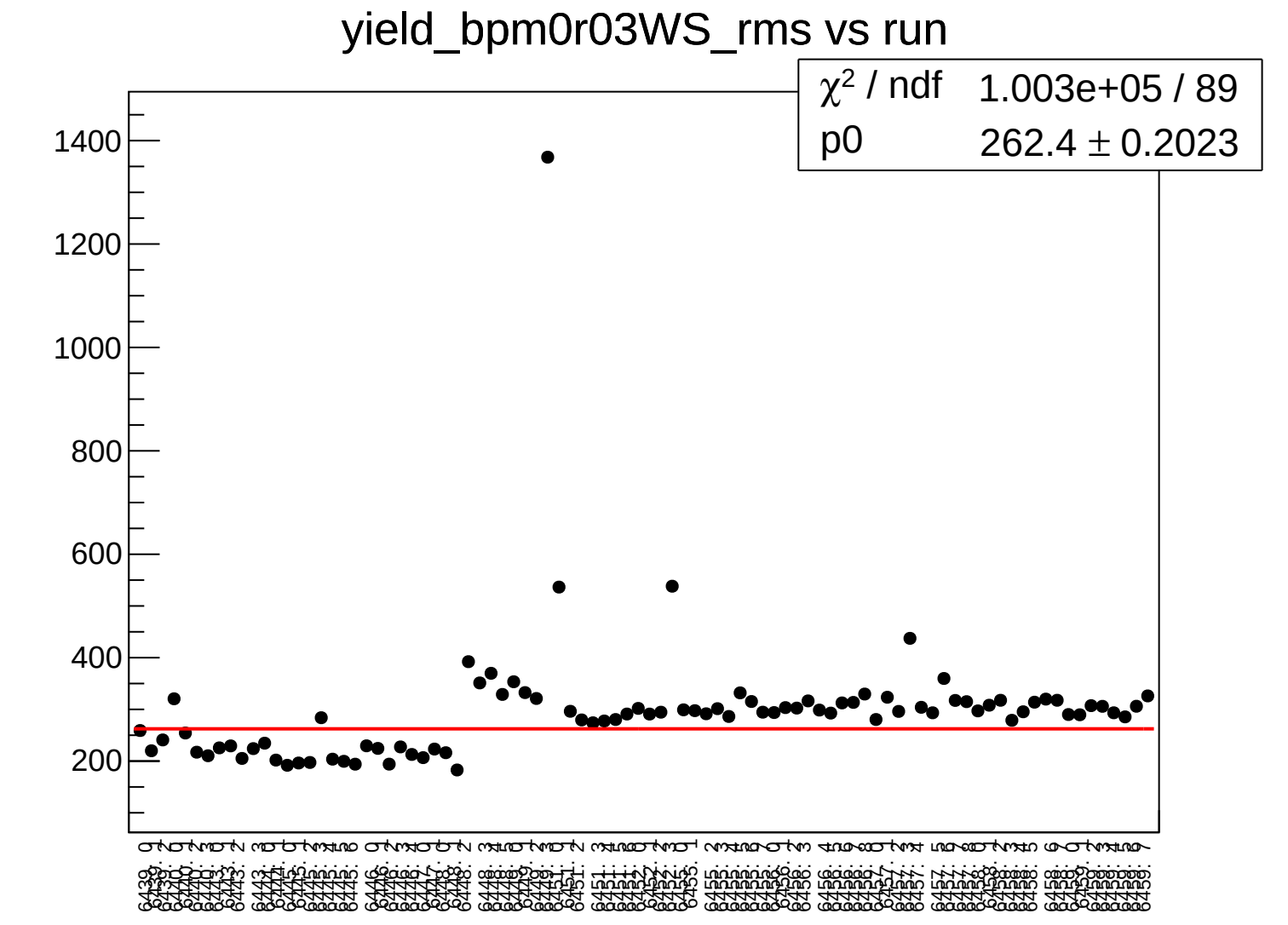

yield_bpm0l10WS_mean vs run
×10^3
χ² / ndf 1.58e+07 / 89
p0 1.444e+05 ± 0.2075
147
146.5
146
145.5
145
144.5
144
143.5
pull
Entries 90
Mean −429.7
Std Dev 0
1500
1000
500
0
−500

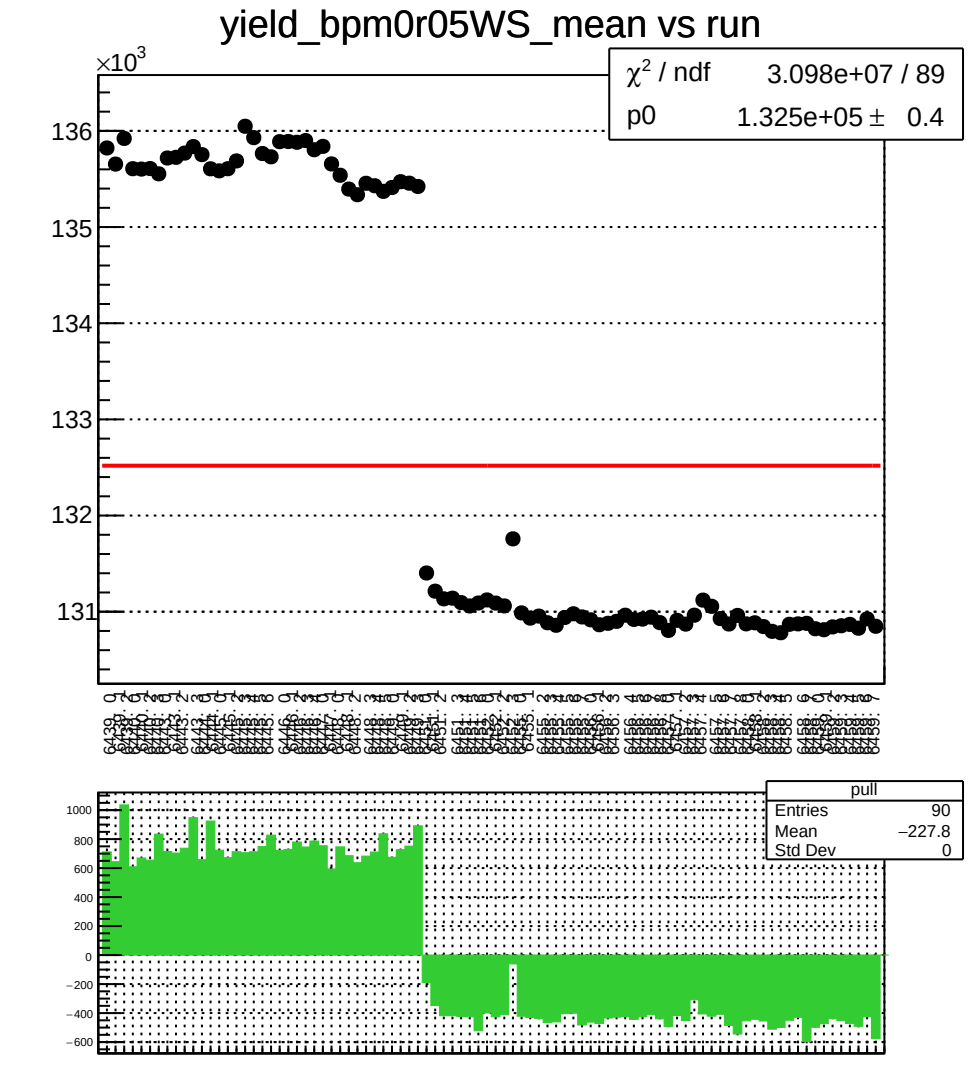

pull1D
Entries 90
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

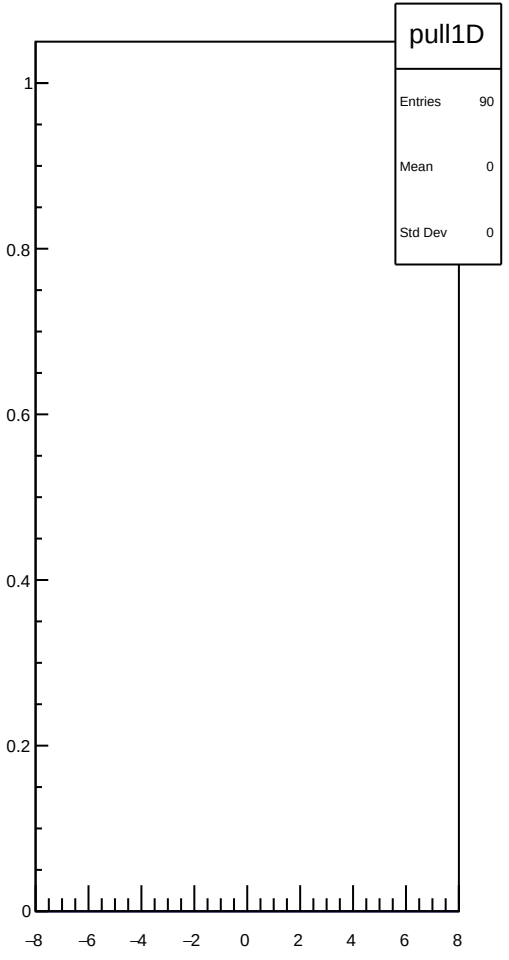

yield_bpm0l10WS_rms vs run
χ² / ndf 6.682e+04 / 89
p0 192.1 ± 0.1467
600
500
400
300
200

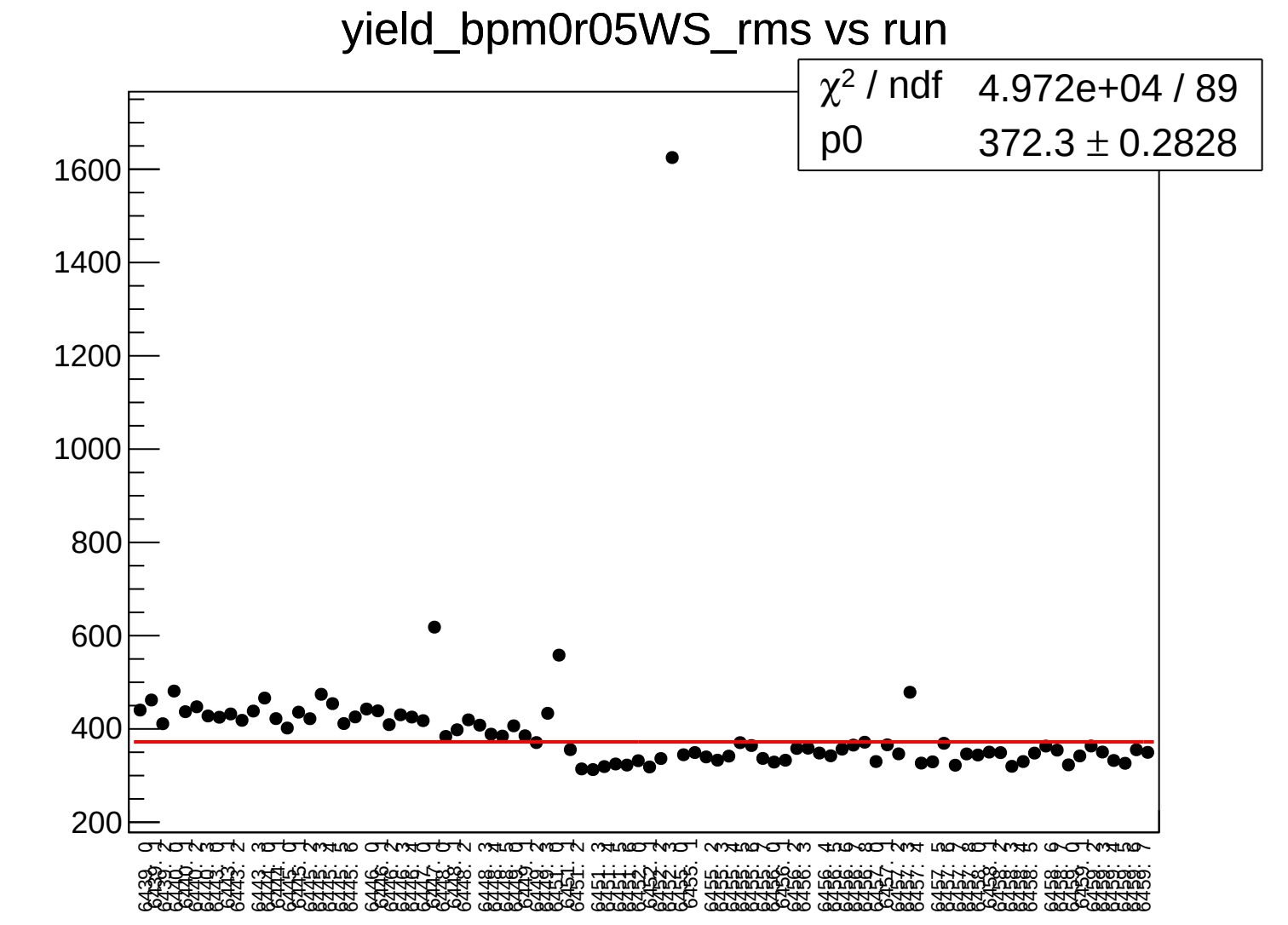

yield_bpm0r03WS_mean vs run
×10^3
χ² / ndf 1.099e+08 / 89
p0 1.399e+05 ± 0.2861
143
142
141
140
139
138
137
136
pull
Entries 90
Mean 182
Std Dev 0
1500
1000
500
0
−500
−1000
−1500

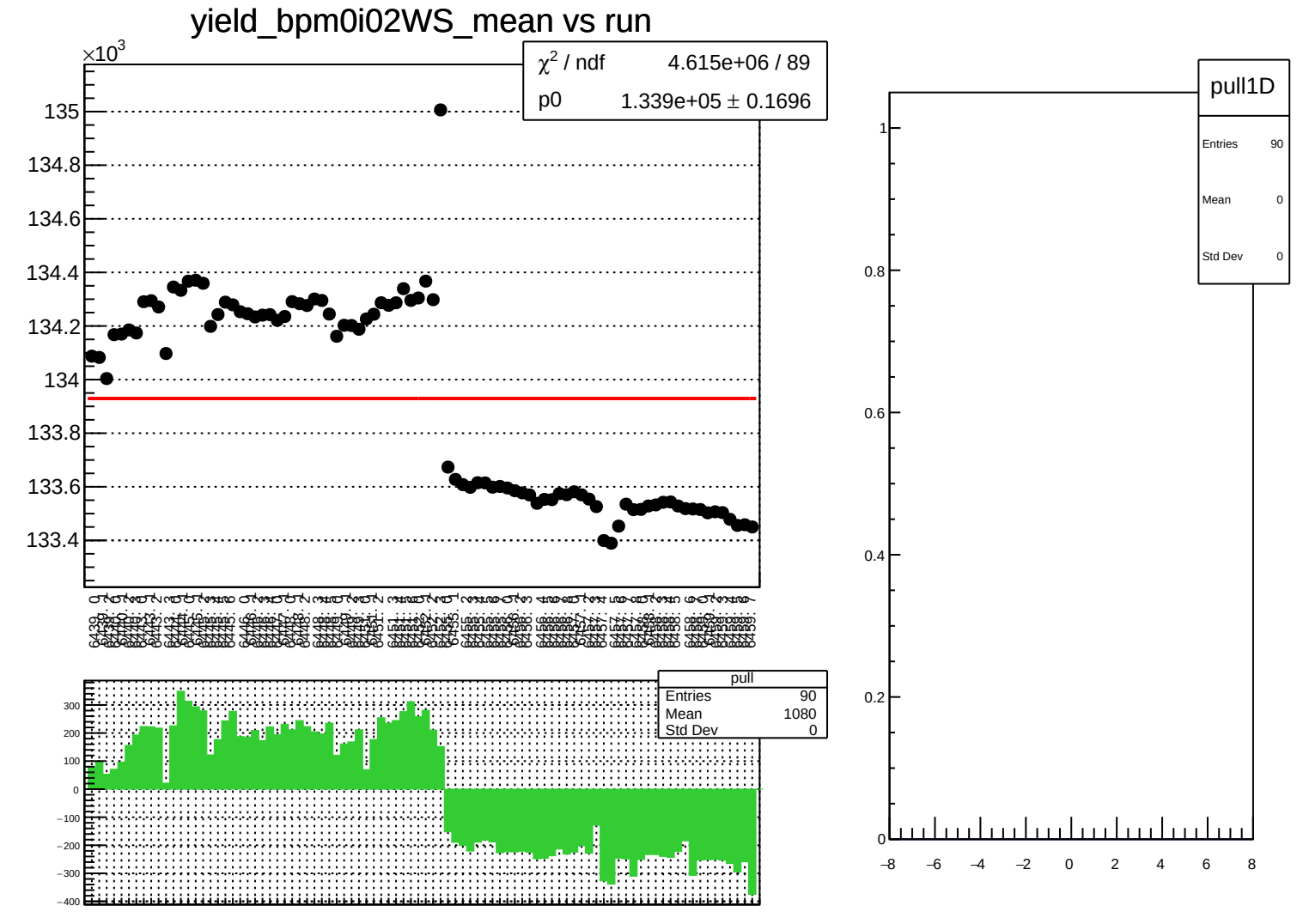

pull1D
Entries 90
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

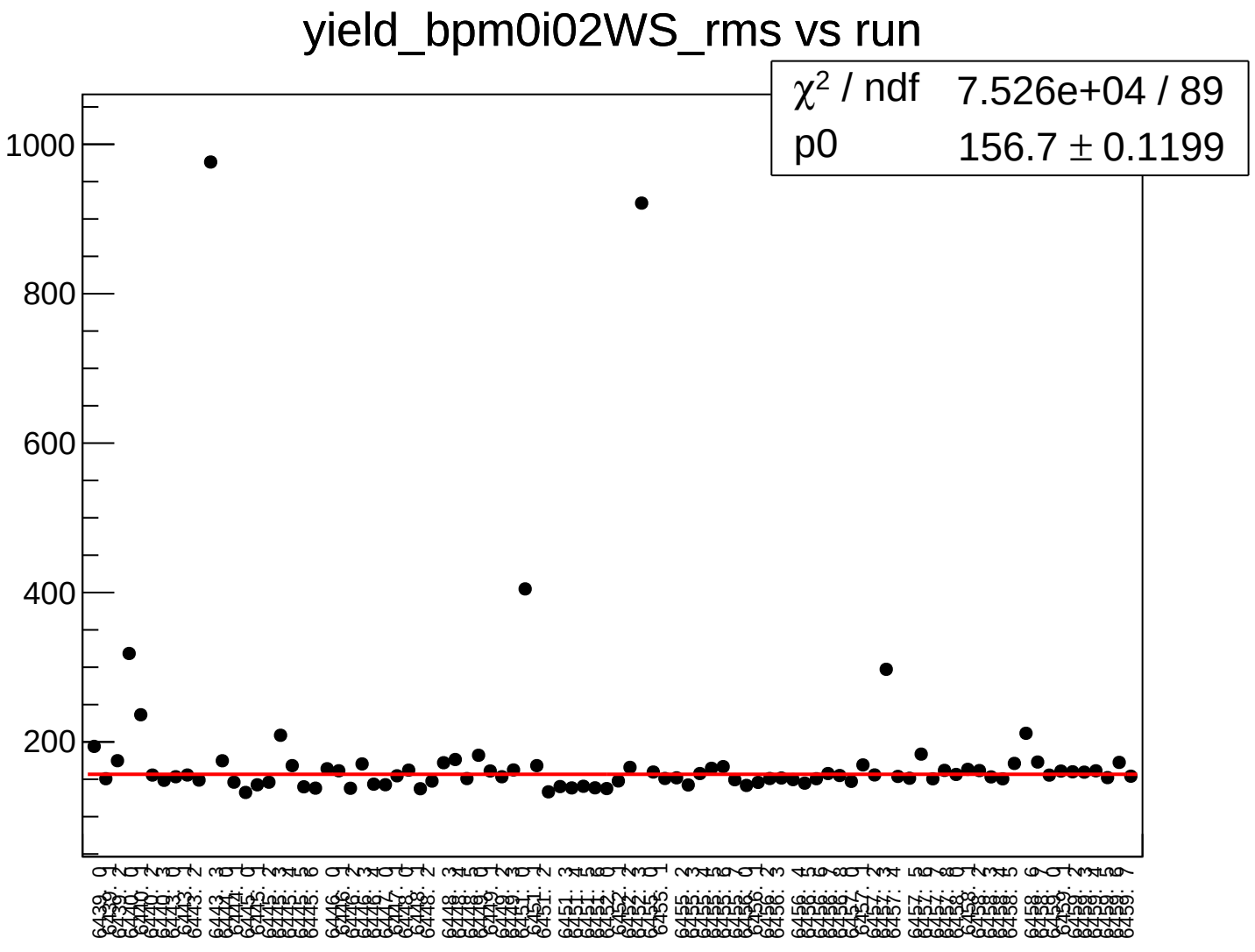

yield_bpm0r03WS_rms vs run
χ^2 / ndf 1.003e+05 / 89
p0 262.4 ± 0.2023
1400
1200
1000
800
600
400
200

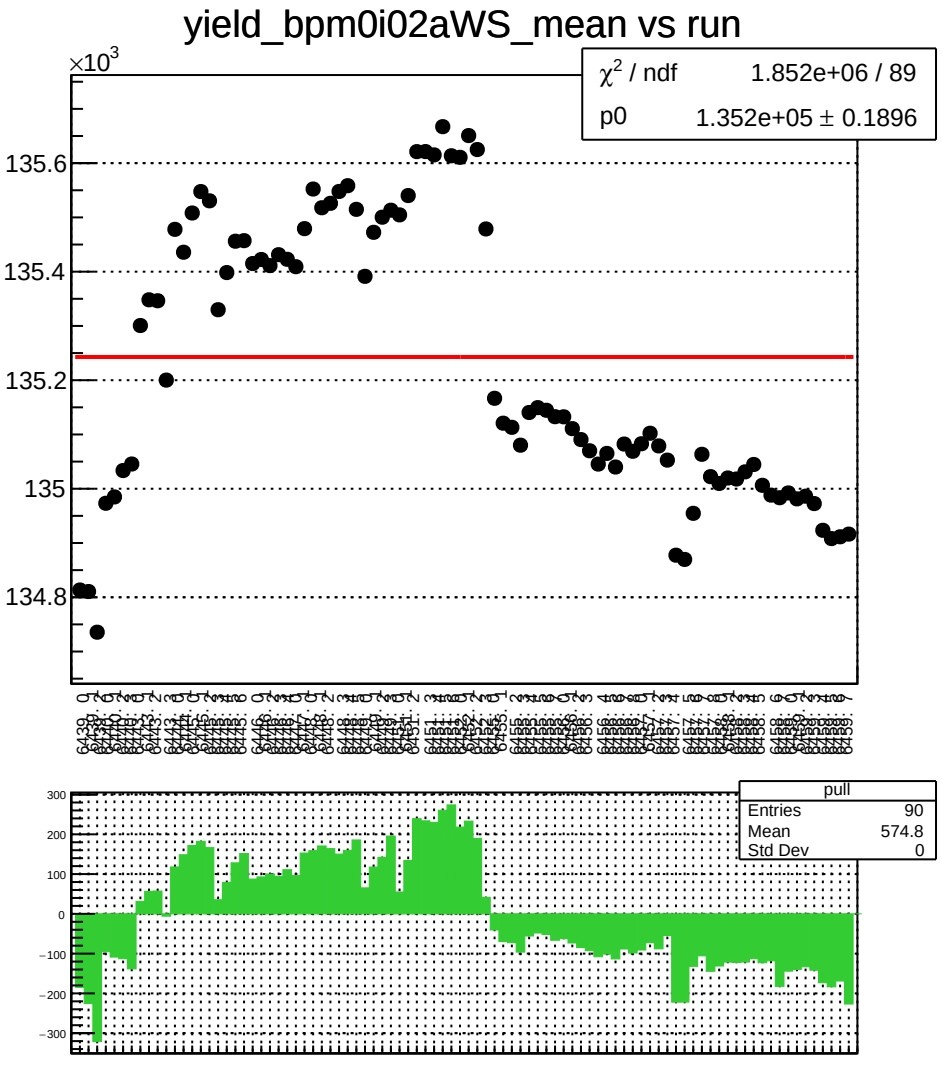

yield_bpm0r05WS_mean vs run
×10^3
χ² / ndf 3.098e+07 / 89
p0 1.325e+05 ± 0.4
136
135
134
133
132
131
pull
Entries 90
Mean −227.8
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600

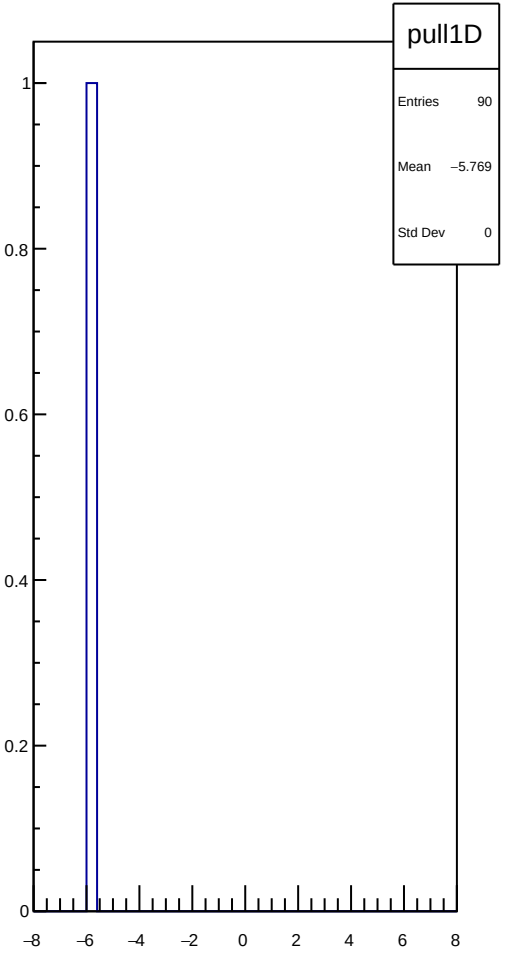

pull1D
Entries 90
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

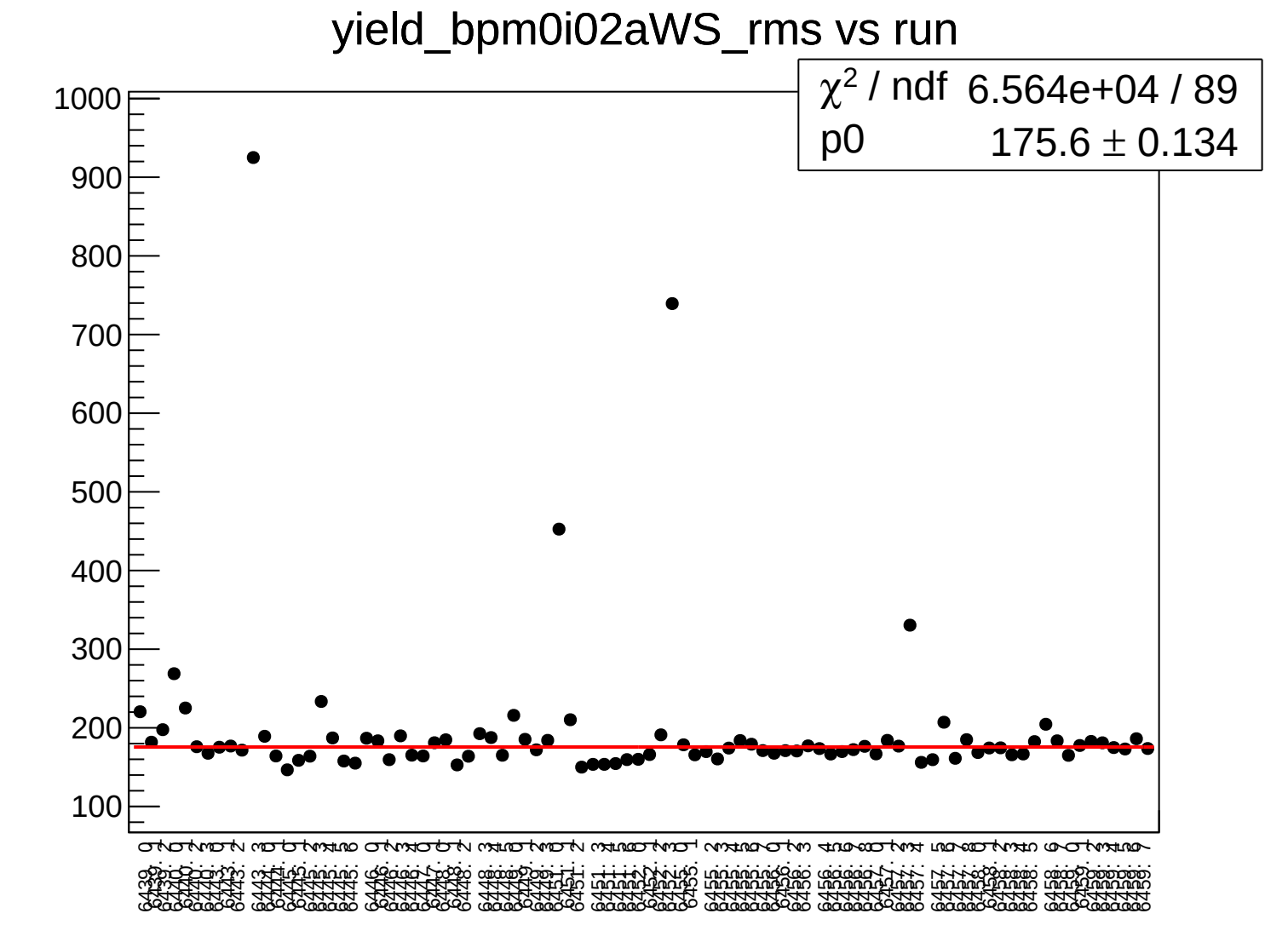

yield_bpm0r05WS_rms vs run
χ² / ndf 4.972e+04 / 89
p0 372.3 ± 0.2828
1600
1400
1200
1000
800
600
400
200

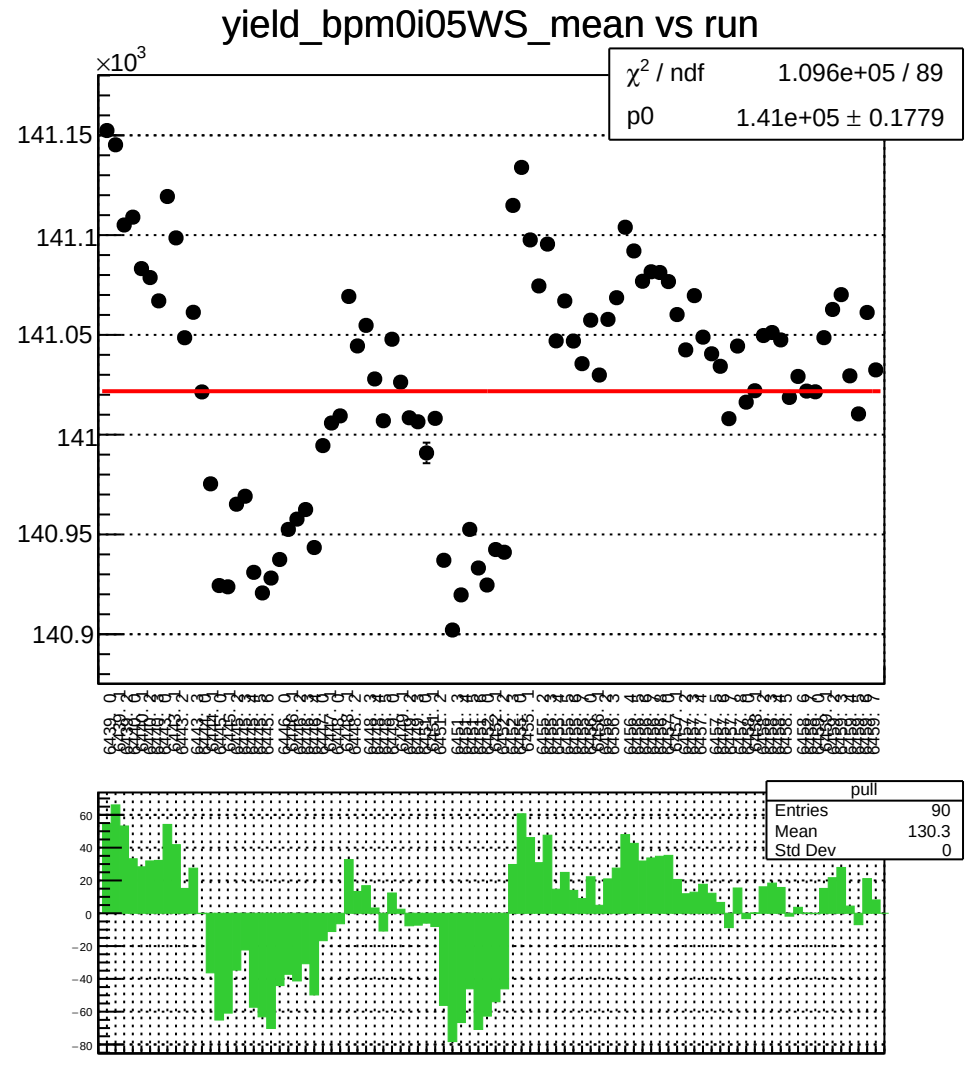

yield_bpm0i02WS_mean vs run
×10^3
χ² / ndf 4.615e+06 / 89
p0 1.339e+05 ± 0.1696
135
134.8
134.6
134.4
134.2
134
133.8
133.6
133.4
pull
Entries 90
Mean 1080
Std Dev 0
300
200
100
0
−100
−200
−300
−400
pull1D
Entries 90
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

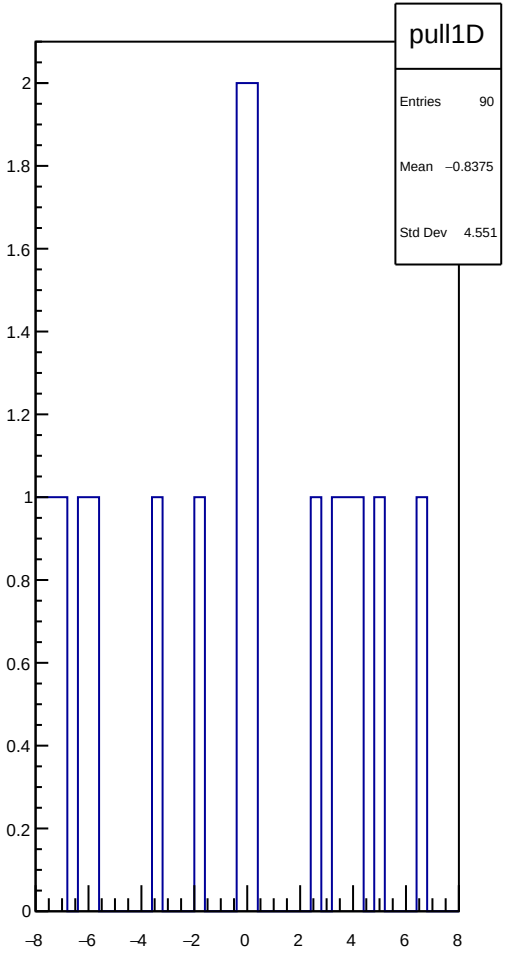

yield_bpm0i02WS_rms vs run
χ² / ndf 7.526e+04 / 89
p0 156.7 ± 0.1199
1000
800
600
400
200

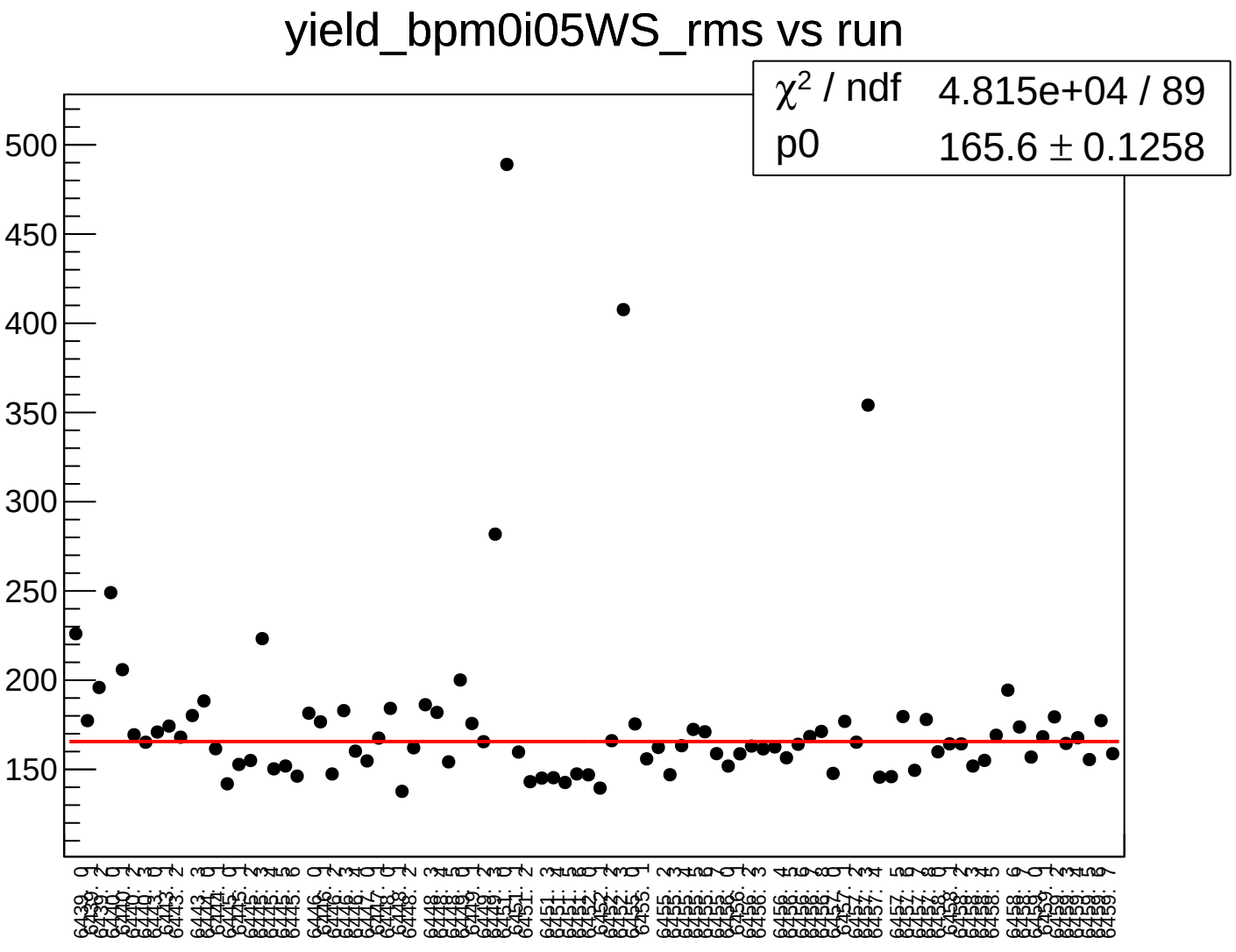

yield_bpm0i02aWS_mean vs run
×10^3
χ² / ndf 1.852e+06 / 89
p0 1.352e+05 ± 0.1896
135.6
135.4
135.2
135
134.8
pull
Entries 90
Mean 574.8
Std Dev 0
300
200
100
0
−100
−200
−300

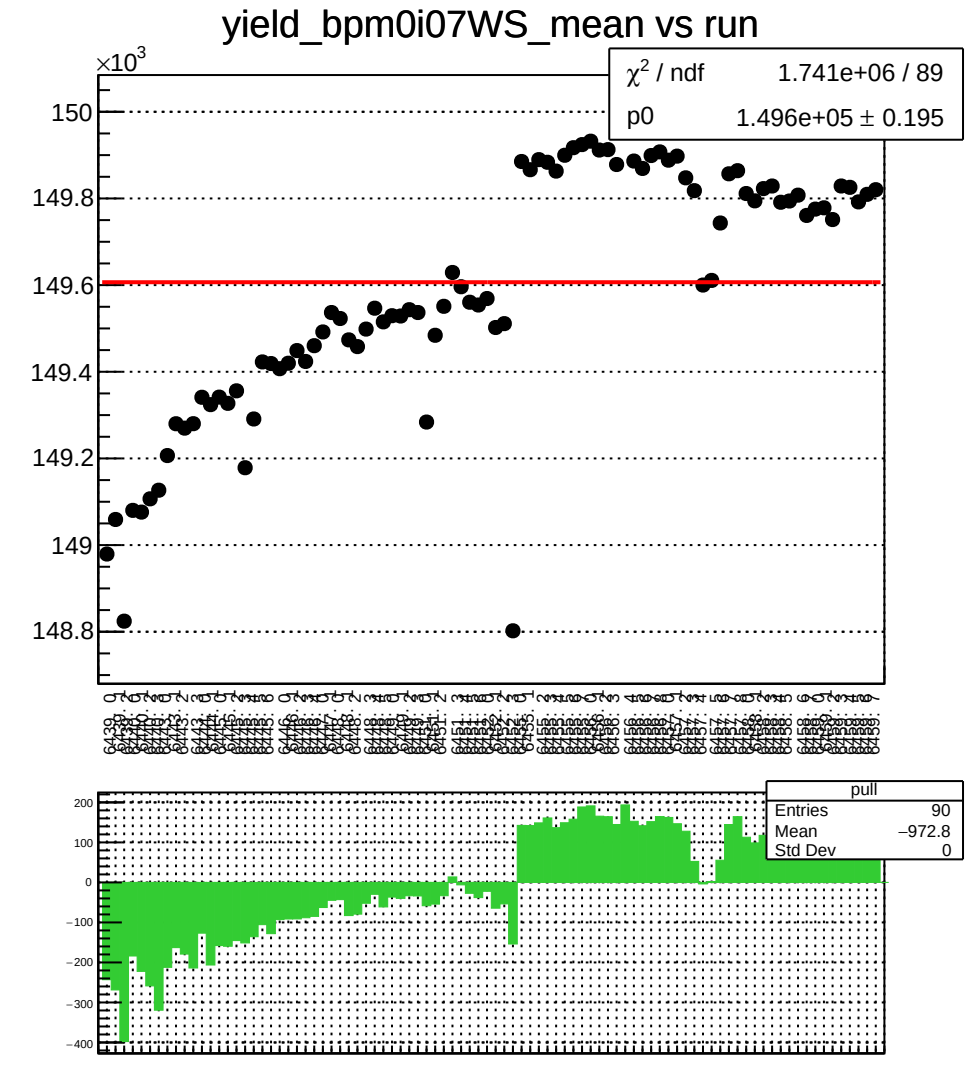

pull1D
Entries 90
Mean −5.769
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

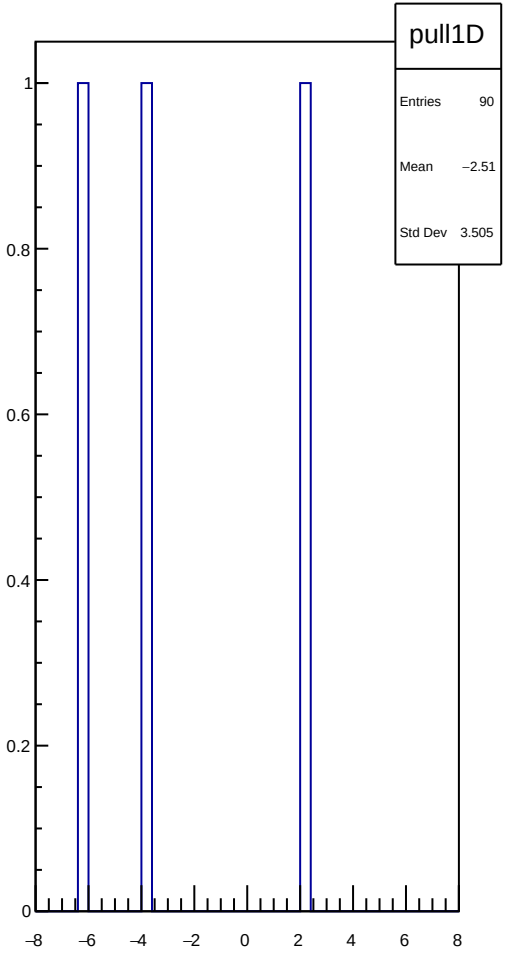

yield_bpm0i02aWS_rms vs run
χ² / ndf 6.564e+04 / 89
p0 175.6 ± 0.134
1000
900
800
700
600
500
400
300
200
100

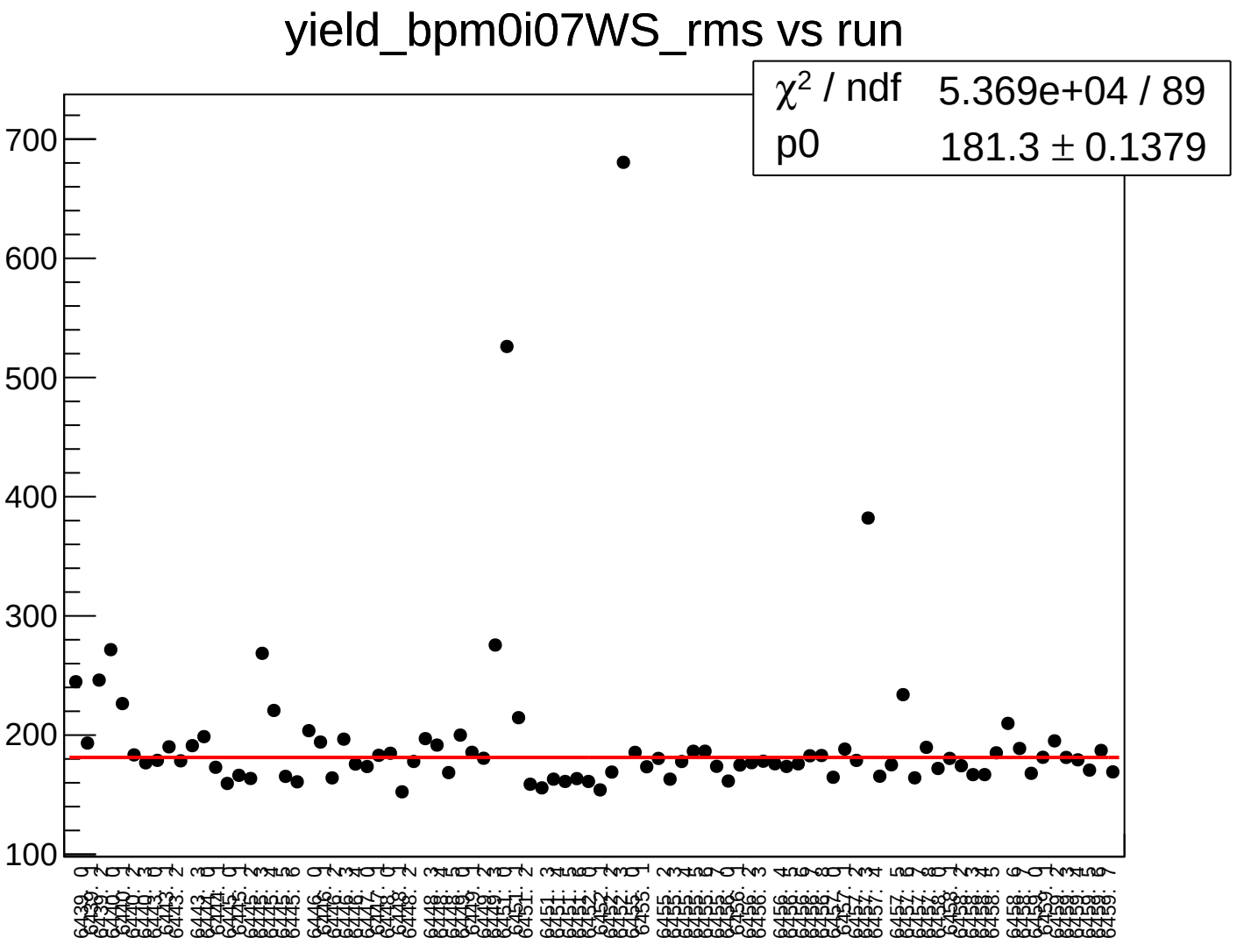

yield_bpm0i05WS_mean vs run
×10^3
χ² / ndf 1.096e+05 / 89
p0 1.41e+05 ± 0.1779
141.15
141.1
141.05
141
140.95
140.9
pull
Entries 90
Mean 130.3
Std Dev 0
60
40
20
0
−20
−40
−60
−80

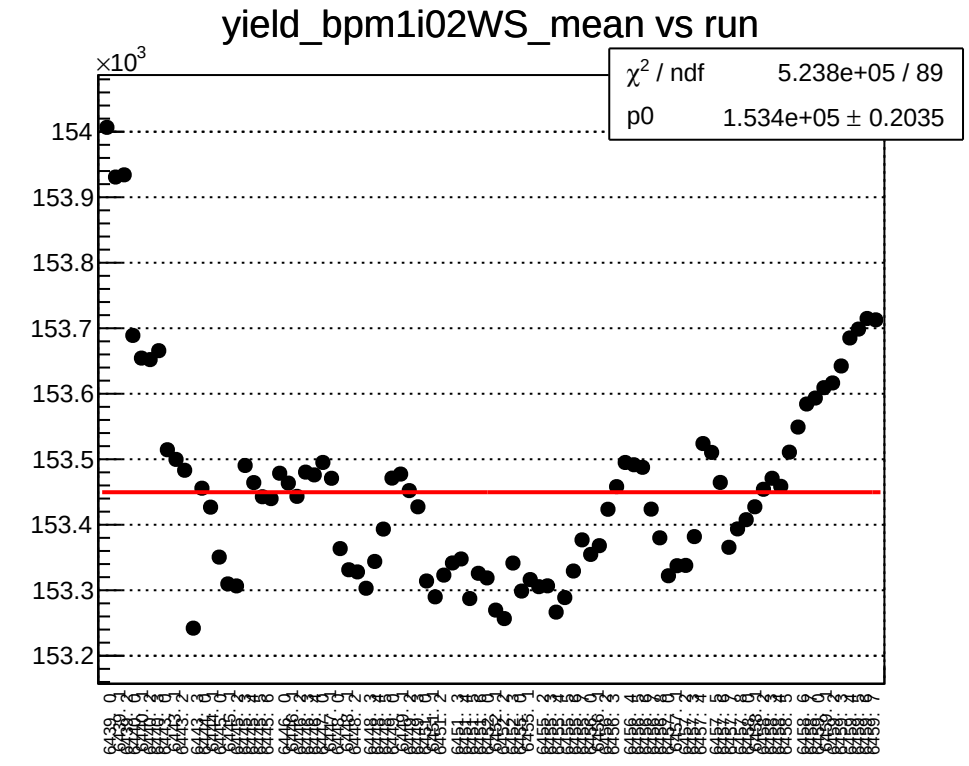

pull1D
Entries 90
Mean −0.8375
Std Dev 4.551
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

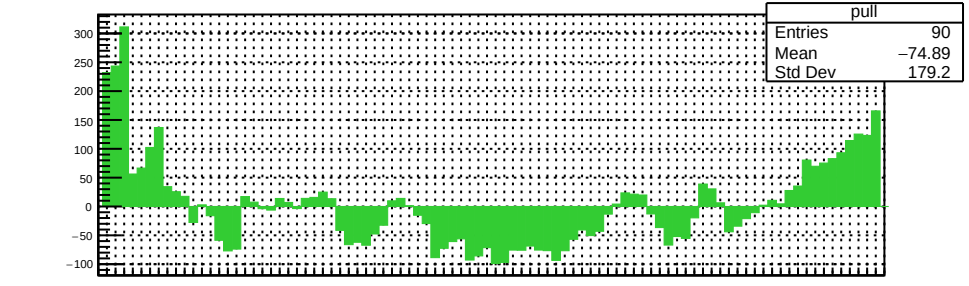

yield_bpm0i05WS_rms vs run
χ² / ndf 4.815e+04 / 89
p0 165.6 ± 0.1258
500
450
400
350
300
250
200
150

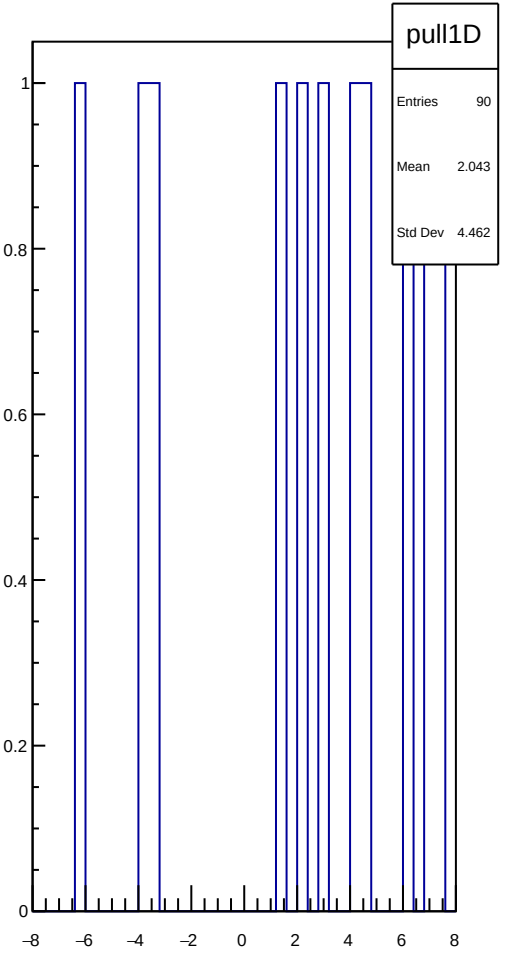

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 1.741e+06 / 89
p0 1.496e+05 ± 0.195
150
149.8
149.6
149.4
149.2
149
148.8
pull
Entries 90
Mean −972.8
Std Dev 0
200
100
0
−100
−200
−300
−400

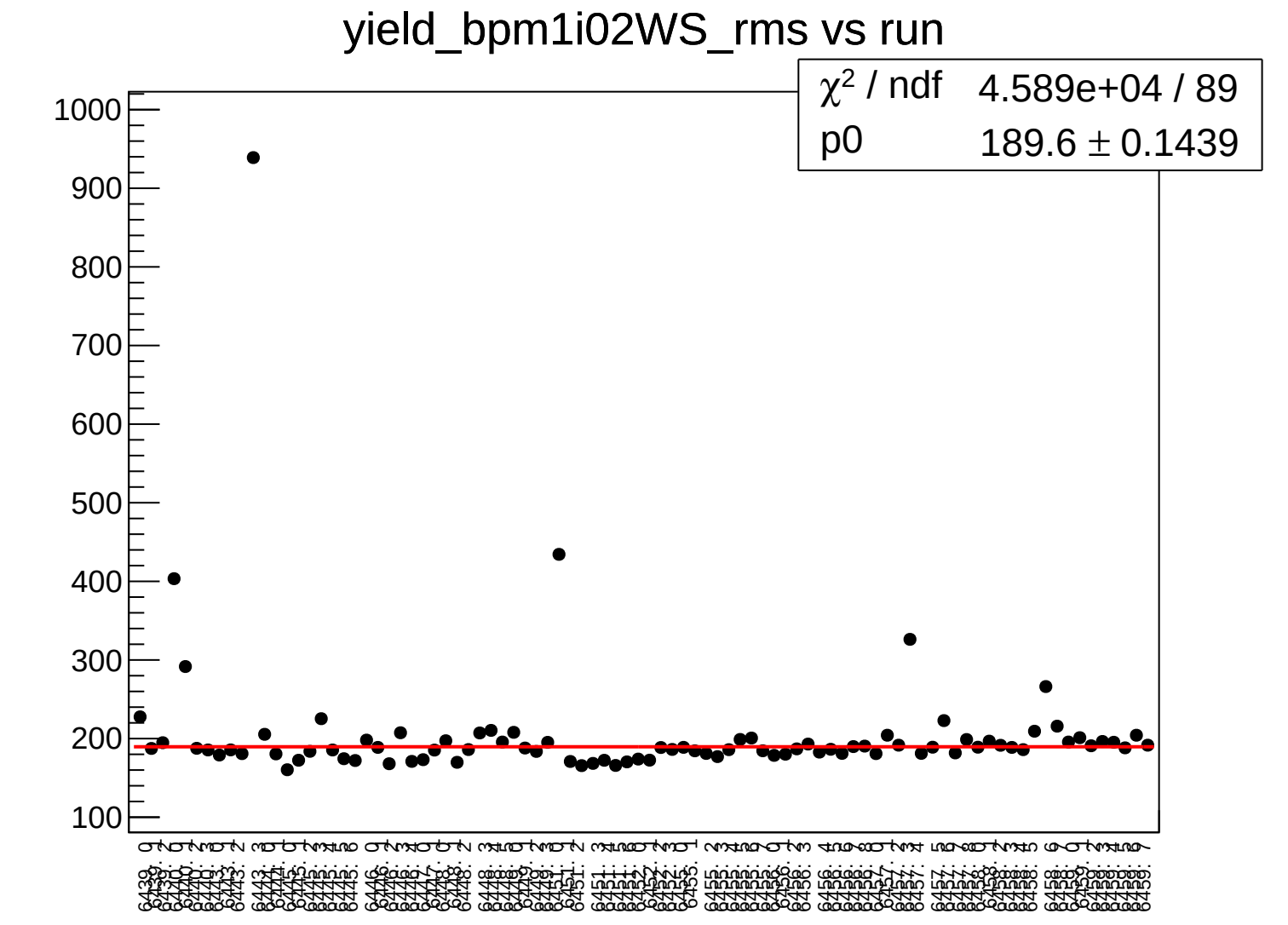

pull1D
Entries 90
Mean −2.51
Std Dev 3.505
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

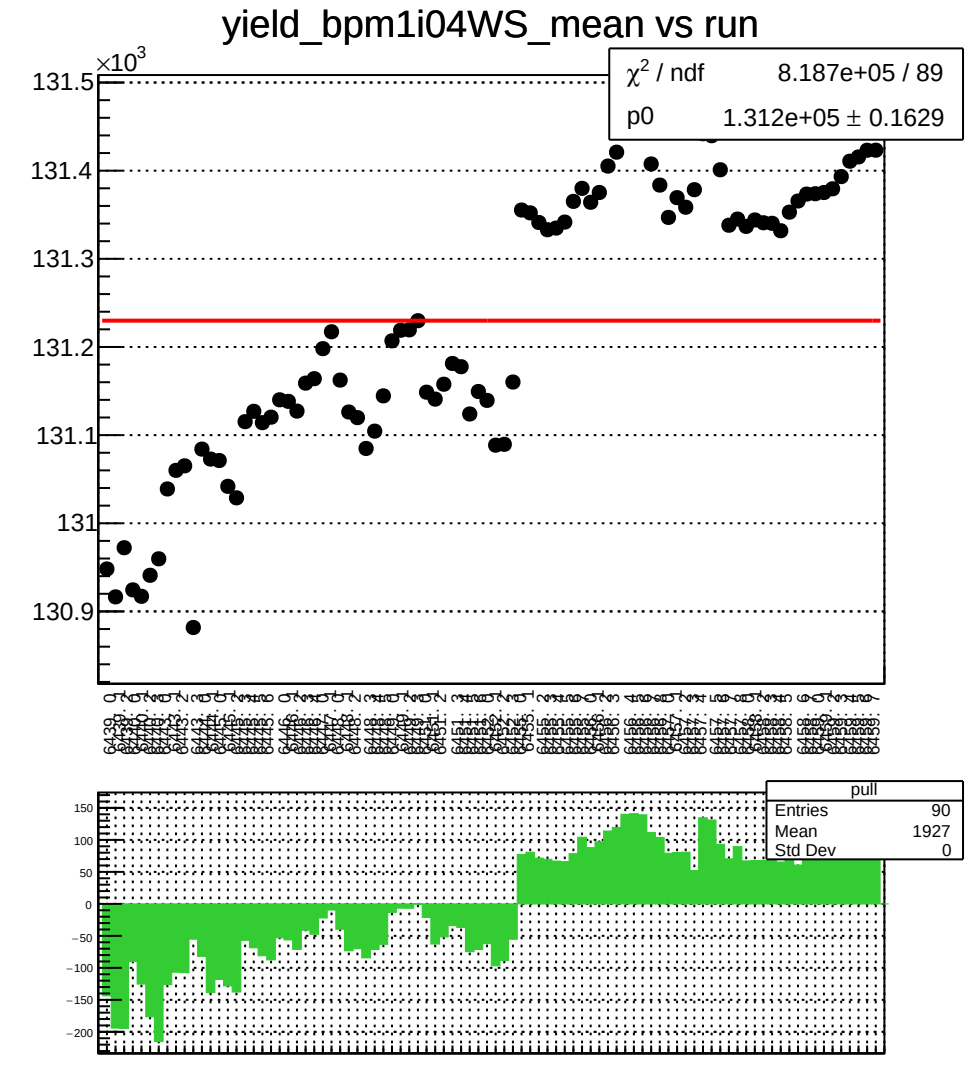

yield_bpm0i07WS_rms vs run
χ² / ndf 5.369e+04 / 89
p0 181.3 ± 0.1379
700
600
500
400
300
200
100

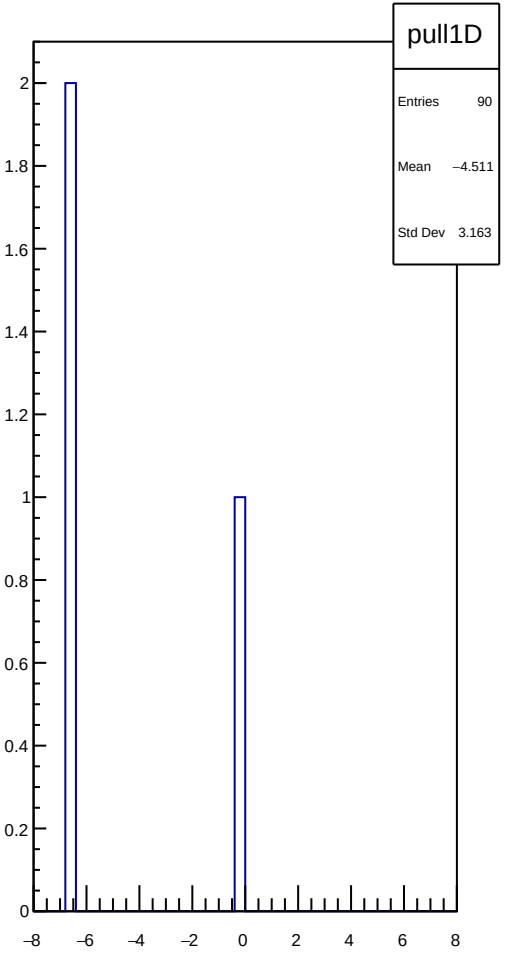

yield_bpm1i02WS_mean vs run
χ² / ndf 5.238e+05 / 89
p0 1.534e+05 ± 0.2035
×10³
154
153.9
153.8
153.7
153.6
153.5
153.4
153.3
153.2

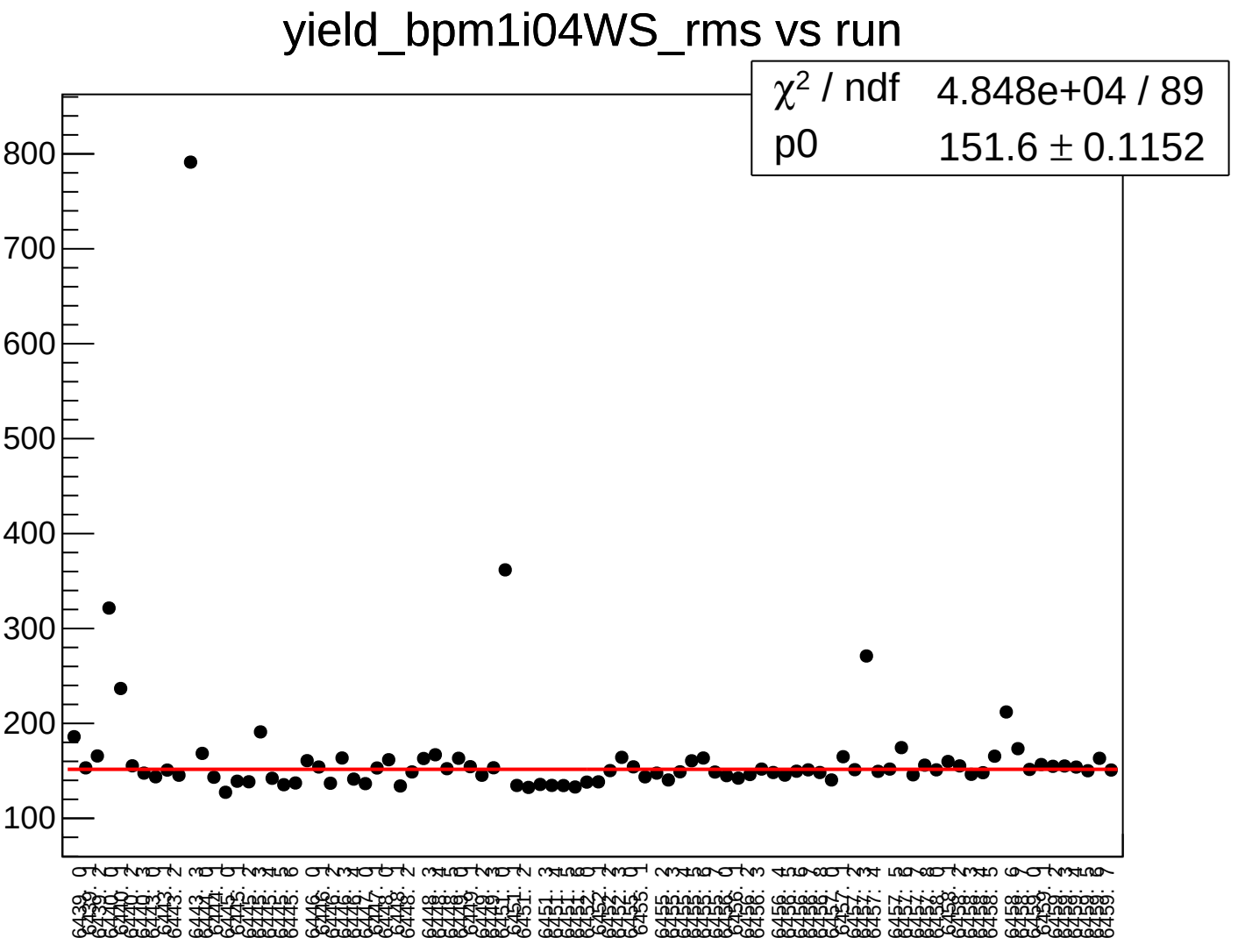

pull
Entries 90
Mean −74.89
Std Dev 179.2
300
250
200
150
100
50
0
−50
−100

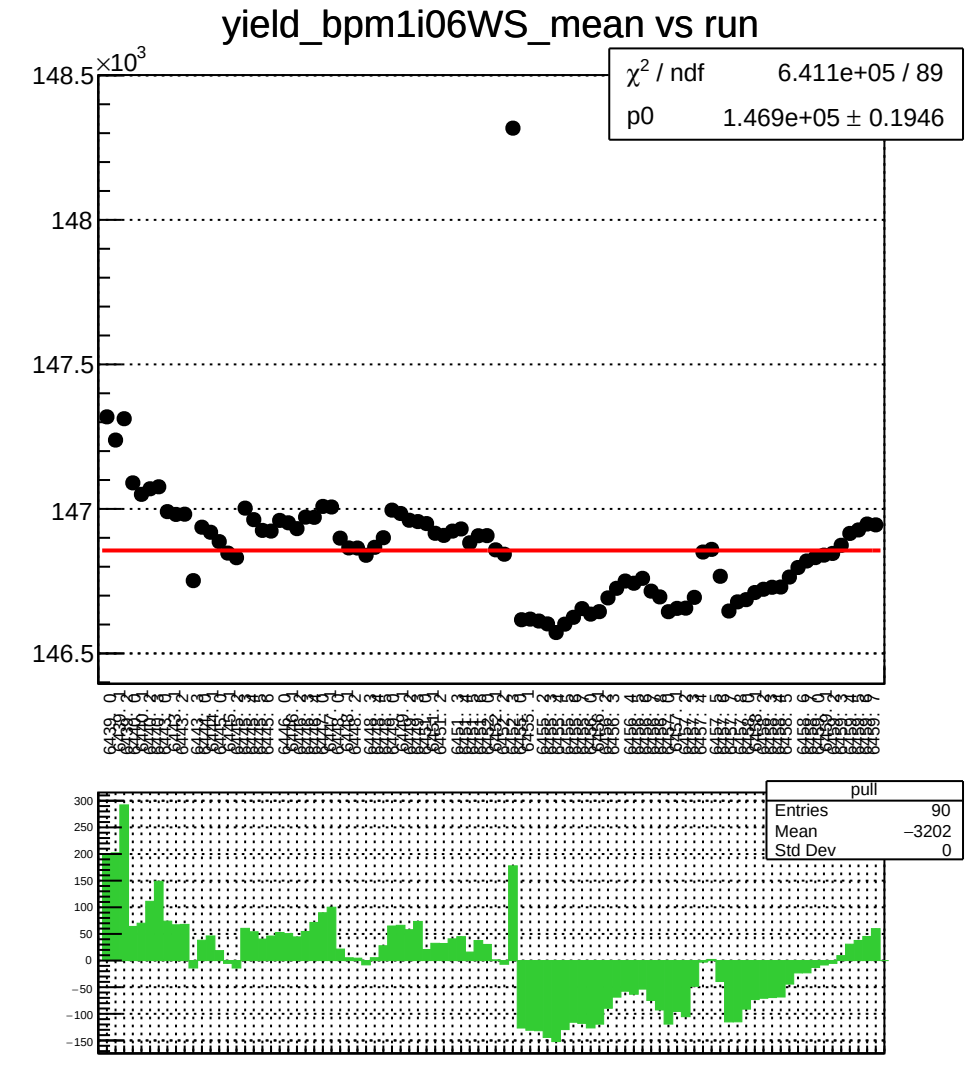

pull1D
Entries 90
Mean 2.043
Std Dev 4.462
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

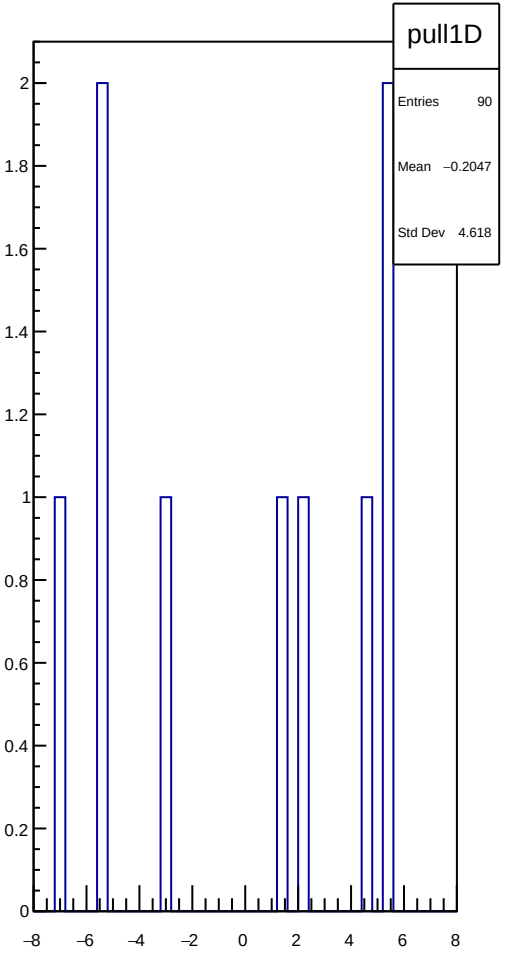

yield_bpm1i02WS_rms vs run
χ² / ndf 4.589e+04 / 89
p0 189.6 ± 0.1439
1000
900
800
700
600
500
400
300
200
100

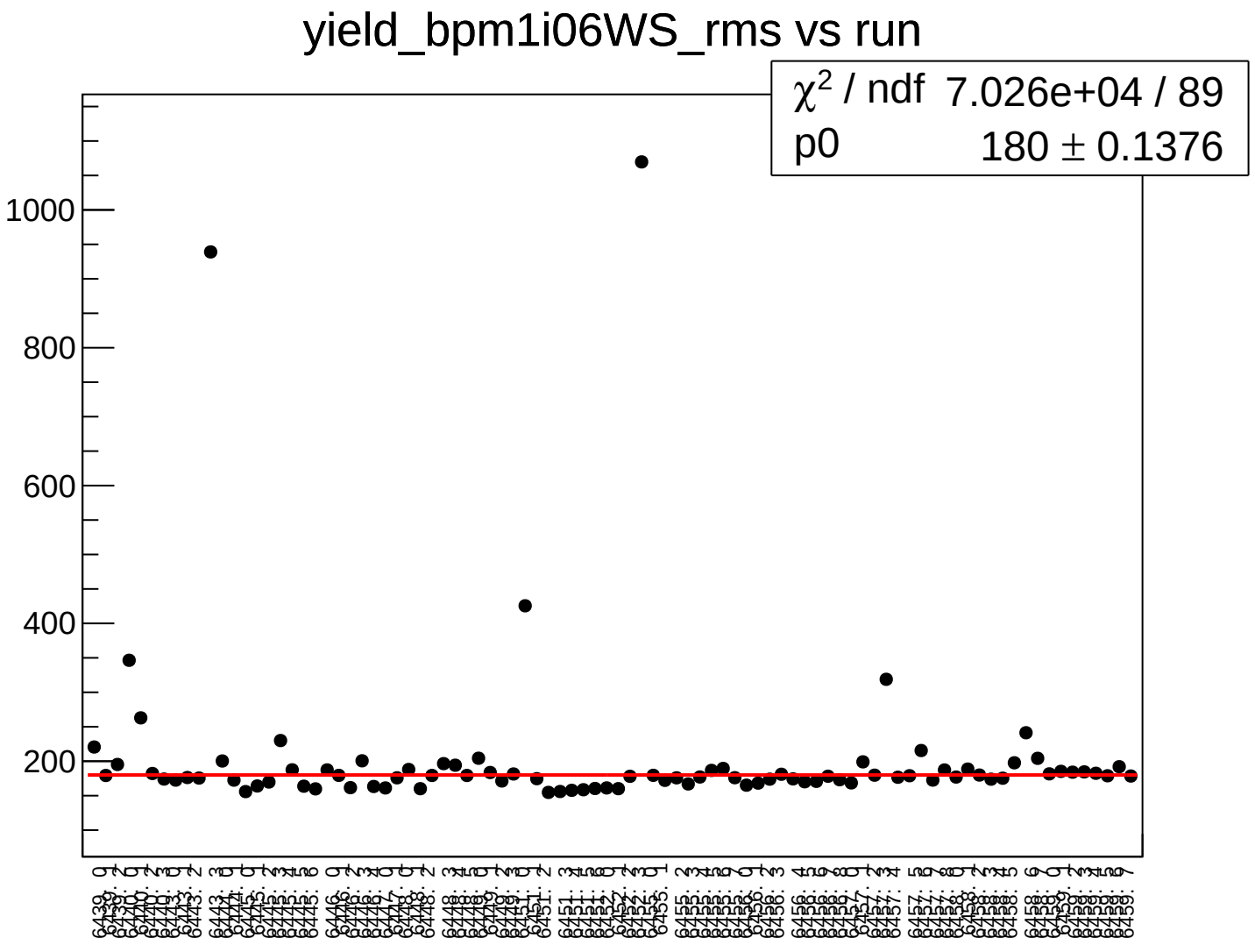

yield_bpm1i04WS_mean vs run
×10^3
131.5
131.4
131.3
131.2
131.1
131
130.9
χ² / ndf 8.187e+05 / 89
p0 1.312e+05 ± 0.1629
pull
Entries 90
Mean 1927
Std Dev 0
150
100
50
0
−50
−100
−150
−200

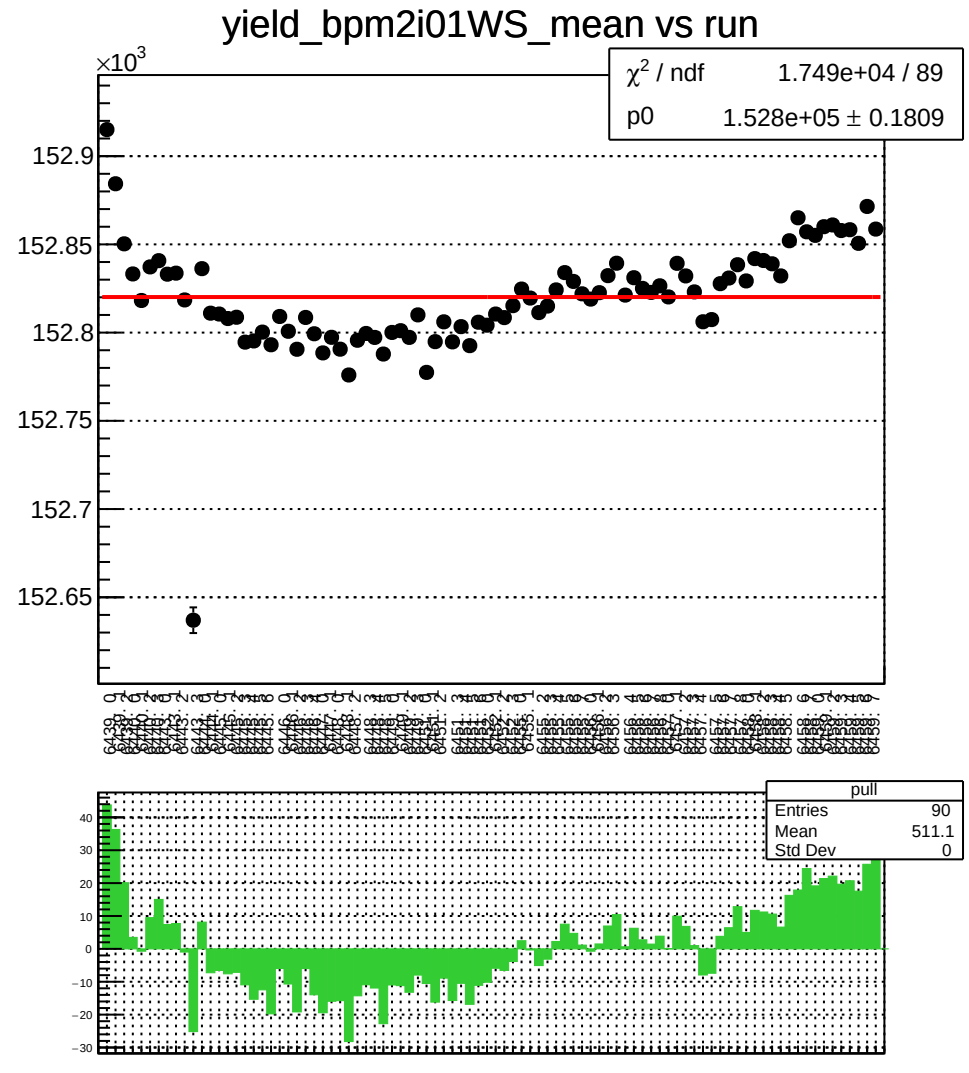

pull1D
Entries 90
Mean −4.511
Std Dev 3.163
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

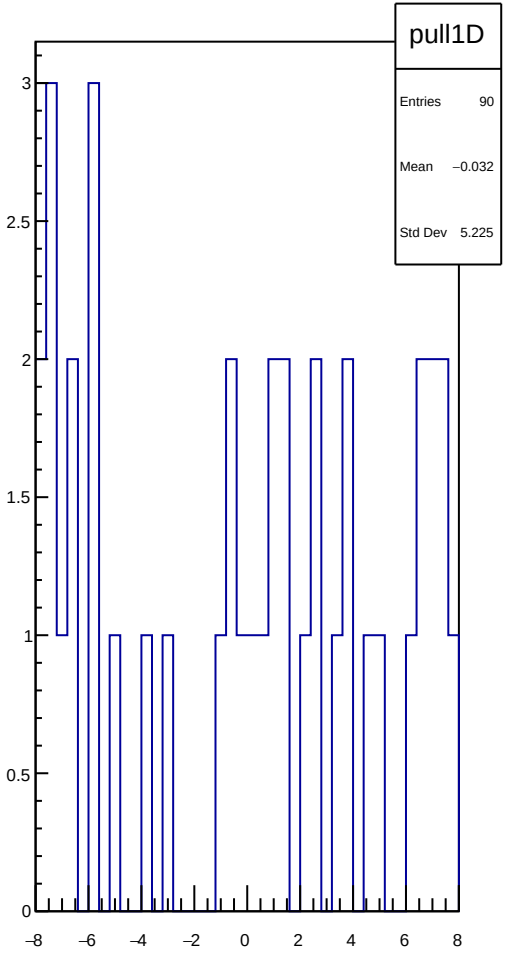

yield_bpm1i04WS_rms vs run
χ² / ndf 4.848e+04 / 89
p0 151.6 ± 0.1152
800
700
600
500
400
300
200
100

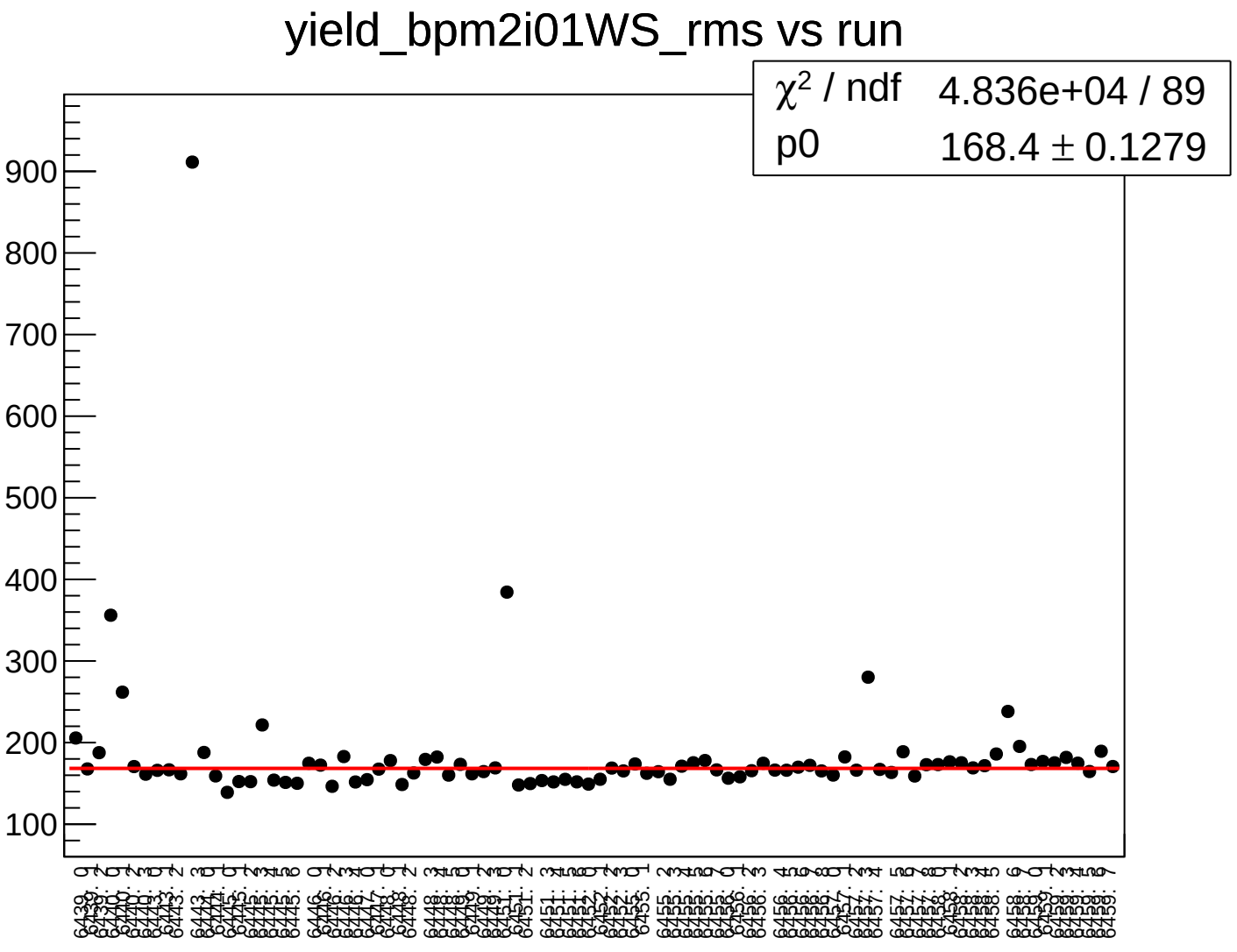

yield_bpm1i06WS_mean vs run
χ² / ndf 6.411e+05 / 89
p0 1.469e+05 ± 0.1946
×10³
148.5
148
147.5
147
146.5
pull
Entries 90
Mean −3202
Std Dev 0
300
250
200
150
100
50
0
−50
−100
−150

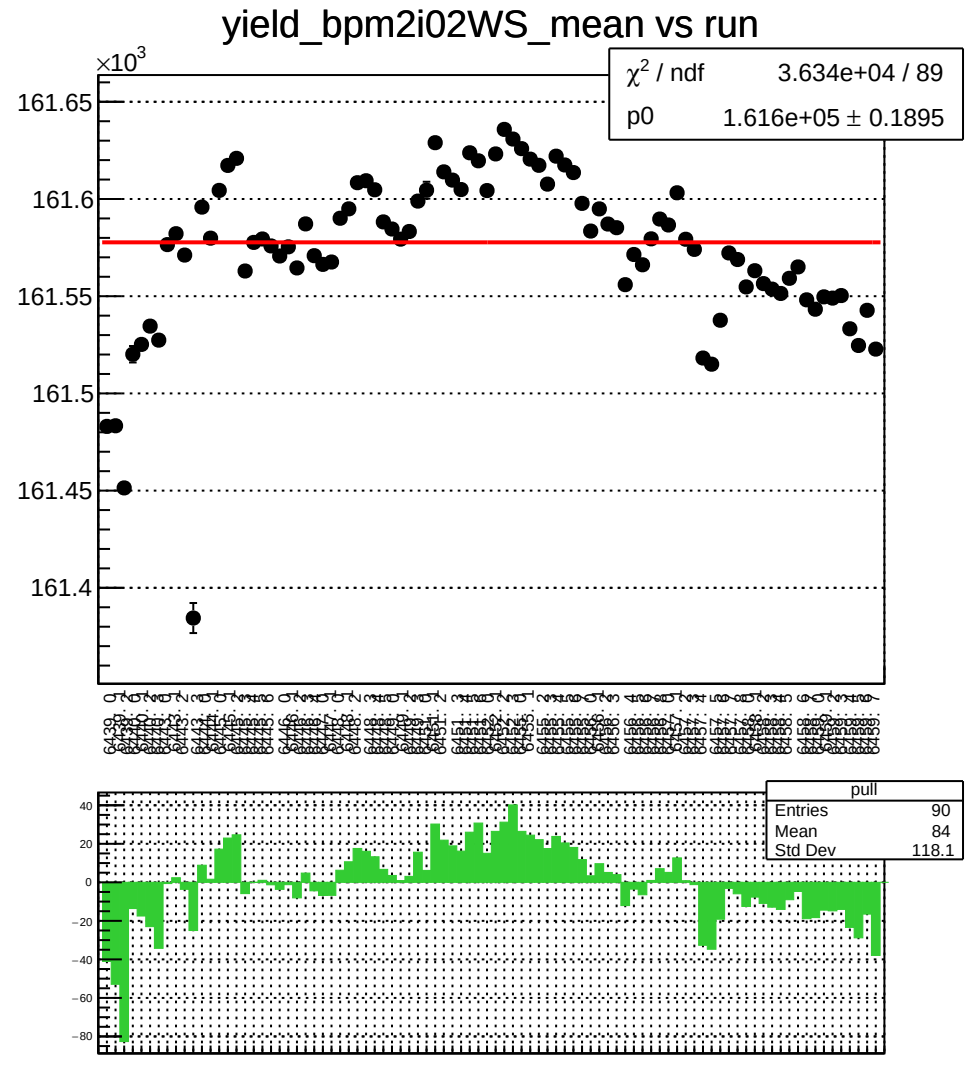

pull1D
Entries 90
Mean −0.2047
Std Dev 4.618
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

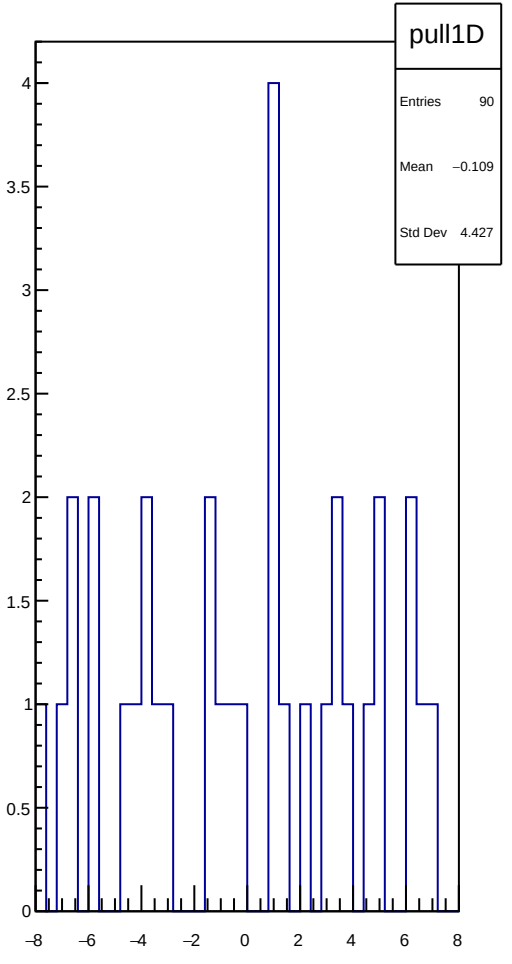

yield_bpm1i06WS_rms vs run
χ² / ndf 7.026e+04 / 89
p0 180 ± 0.1376
1000
800
600
400
200

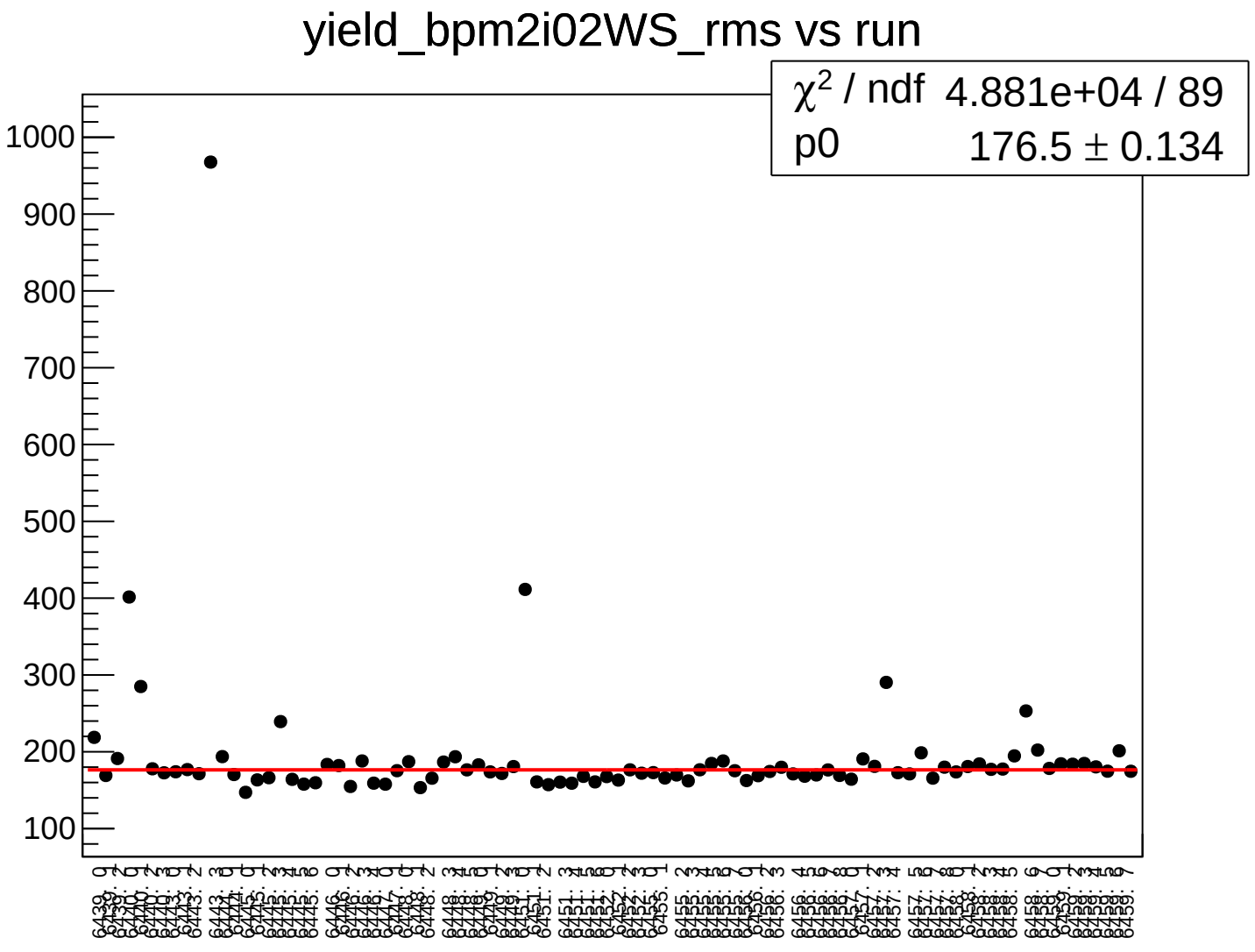

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 1.749e+04 / 89
p0 1.528e+05 ± 0.1809
152.9
152.85
152.8
152.75
152.7
152.65
pull
Entries 90
Mean 511.1
Std Dev 0
40
30
20
10
0
−10
−20
−30

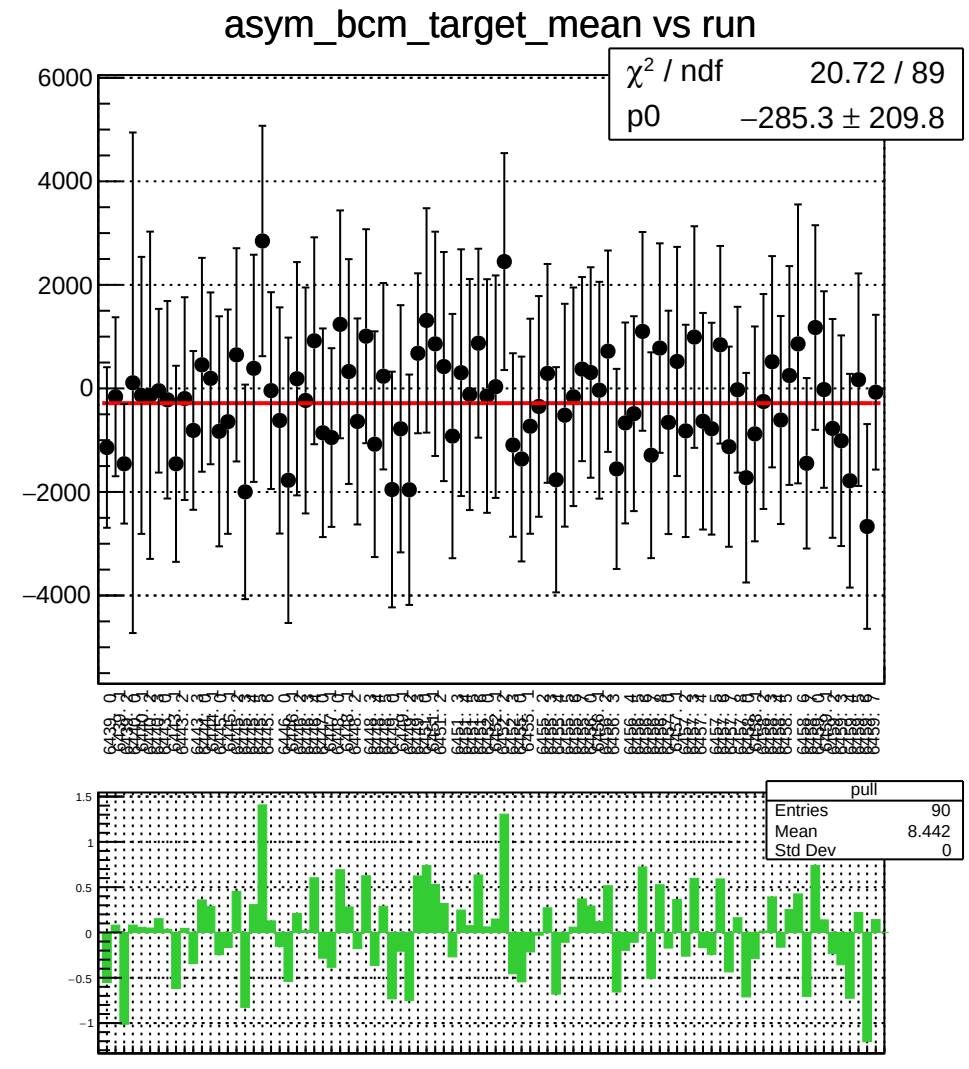

pull1D
Entries 90
Mean −0.032
Std Dev 5.225
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

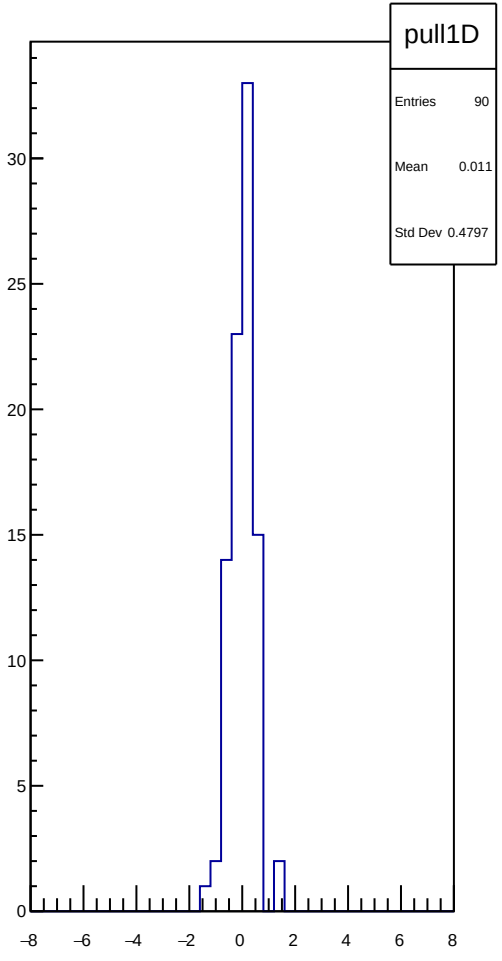

yield_bpm2i01WS_rms vs run
χ^2 / ndf 4.836e+04 / 89
p0 168.4 ± 0.1279
900
800
700
600
500
400
300
200
100

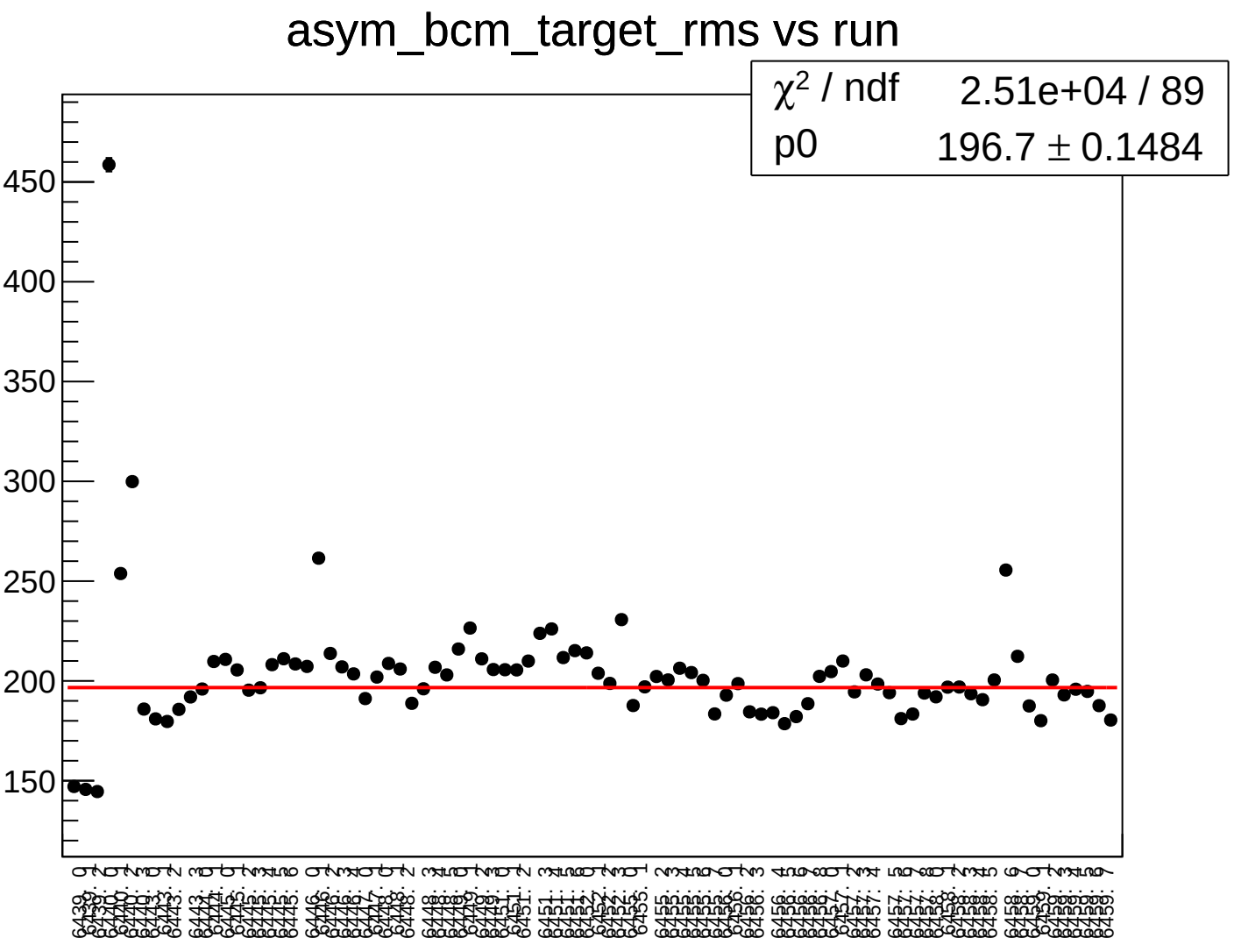

yield_bpm2i02WS_mean vs run
×10^3
χ² / ndf 3.634e+04 / 89
p0 1.616e+05 ± 0.1895
161.65
161.6
161.55
161.5
161.45
161.4
pull
Entries 90
Mean 84
Std Dev 118.1
40
20
0
−20
−40
−60
−80

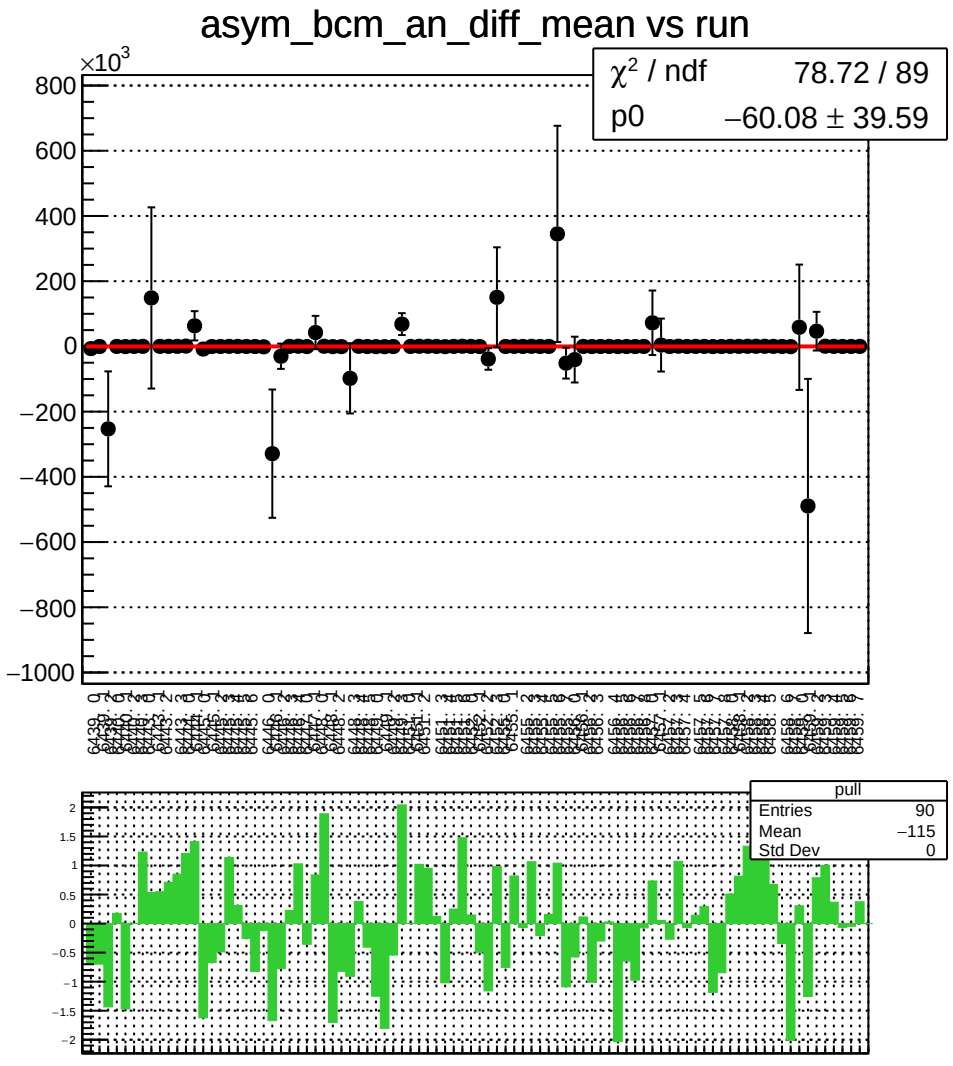

pull1D
Entries 90
Mean −0.109
Std Dev 4.427
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

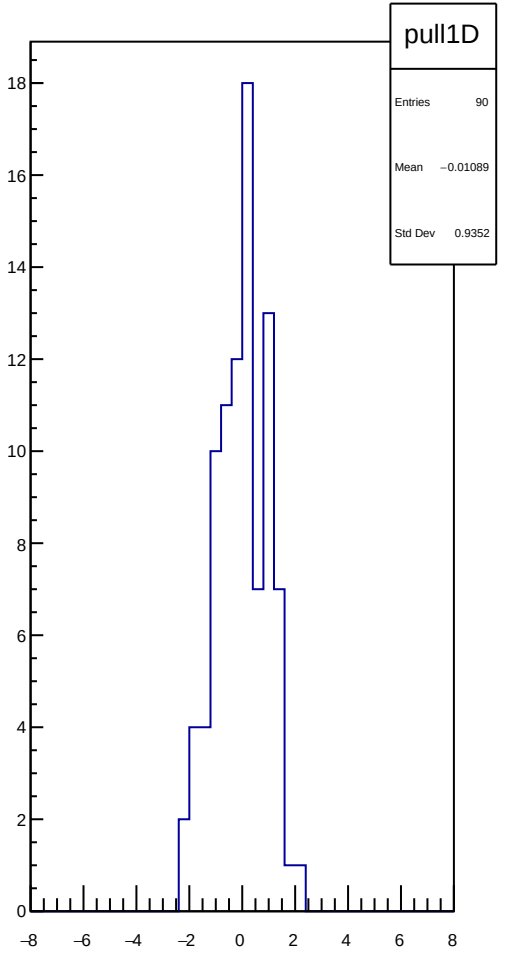

yield_bpm2i02WS_rms vs run
χ^2 / ndf 4.881e+04 / 89
p0 176.5 ± 0.134
1000
900
800
700
600
500
400
300
200
100

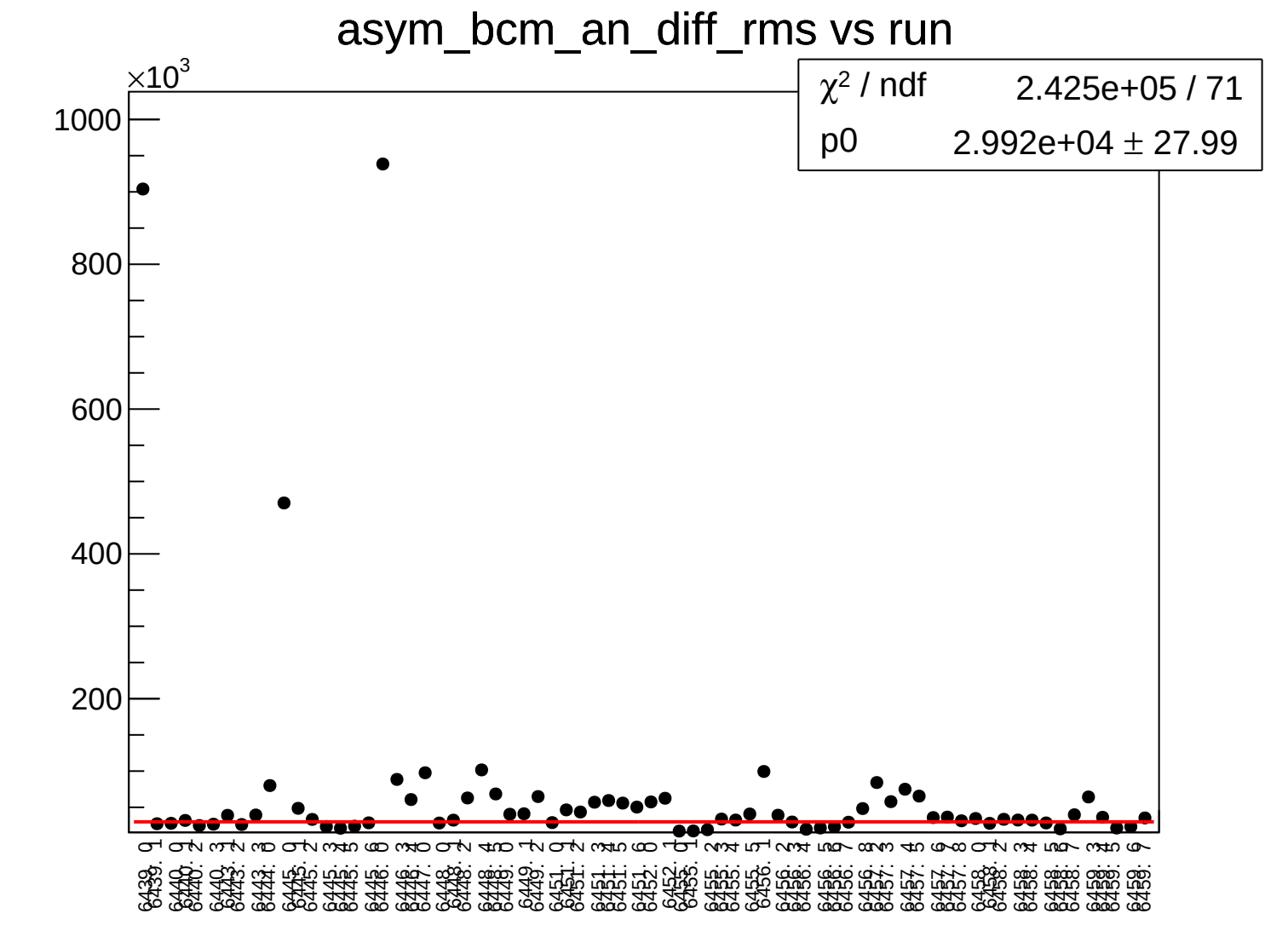

asym_bcm_target_mean vs run
χ² / ndf 20.72 / 89
p0 −285.3 ± 209.8
6000
4000
2000
0
−2000
−4000
pull
Entries 90
Mean 8.442
Std Dev 0
1.5
1
0.5
0
−0.5
−1

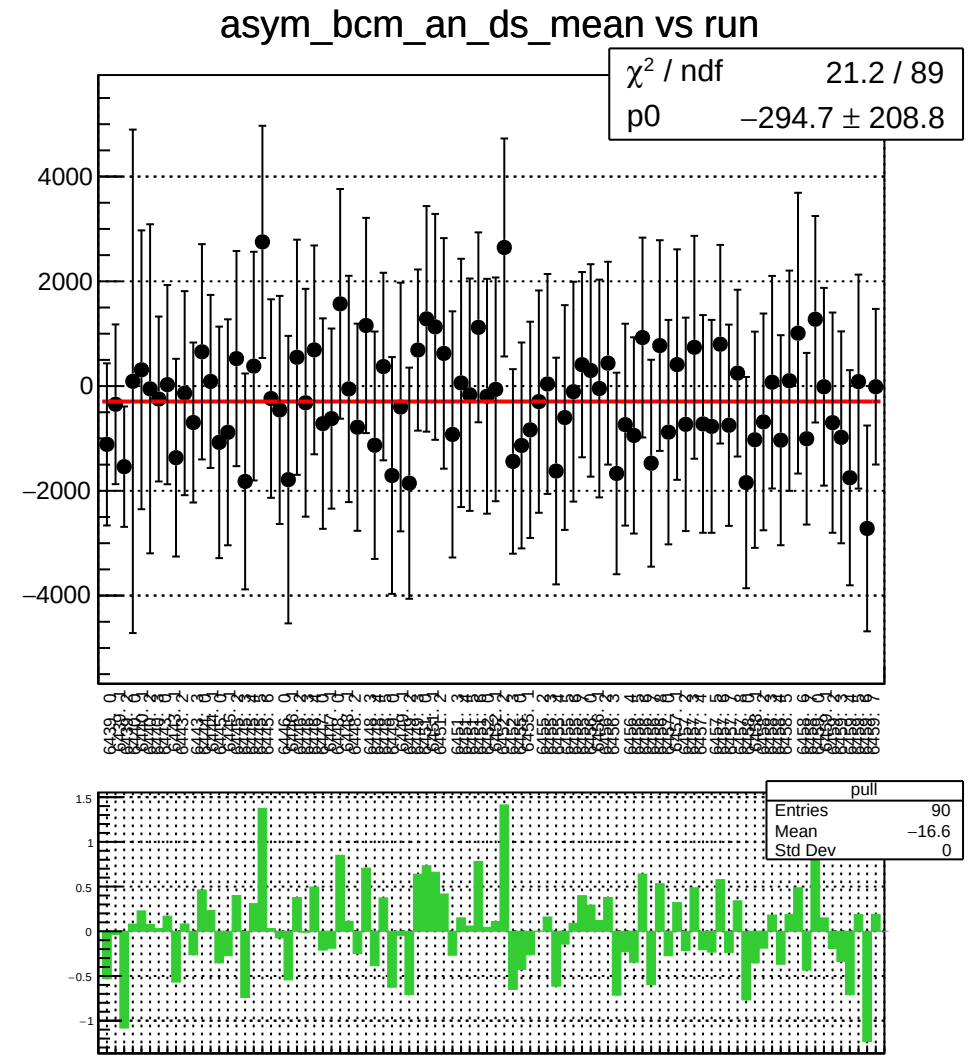

pull1D
Entries 90
Mean 0.011
Std Dev 0.4797
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

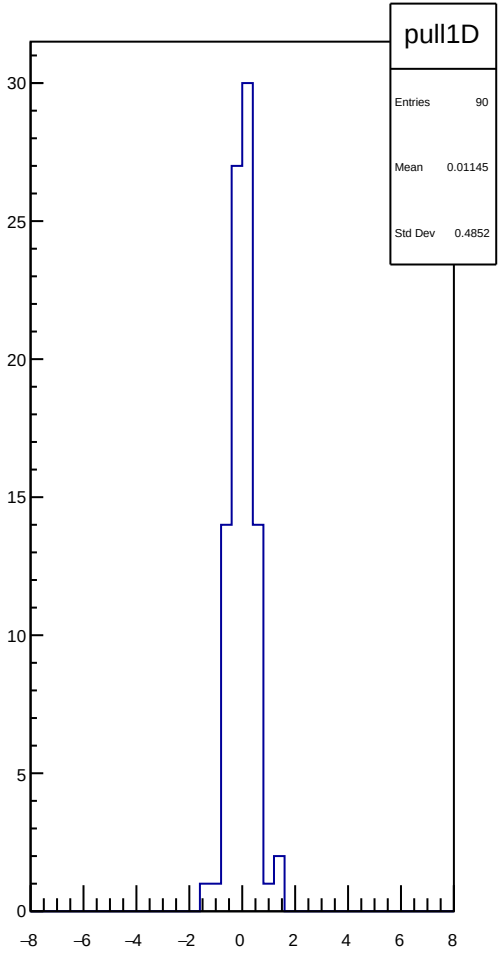

asym_bcm_target_rms vs run
χ² / ndf 2.51e+04 / 89
p0 196.7 ± 0.1484
450
400
350
300
250
200
150

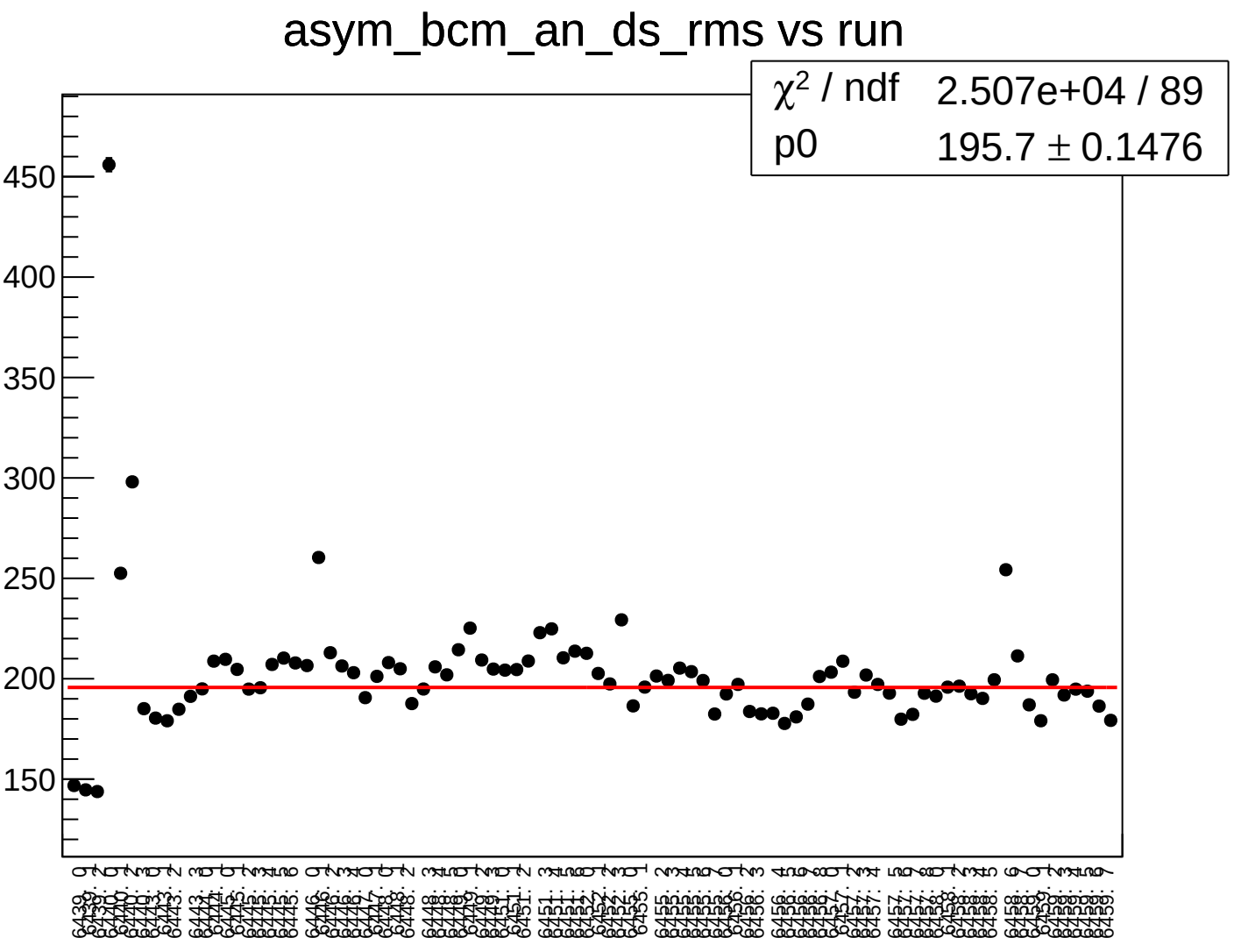

asym_bcm_an_diff_mean vs run
×10^3
χ² / ndf 78.72 / 89
p0 −60.08 ± 39.59
pull
Entries 90
Mean −115
Std Dev 0

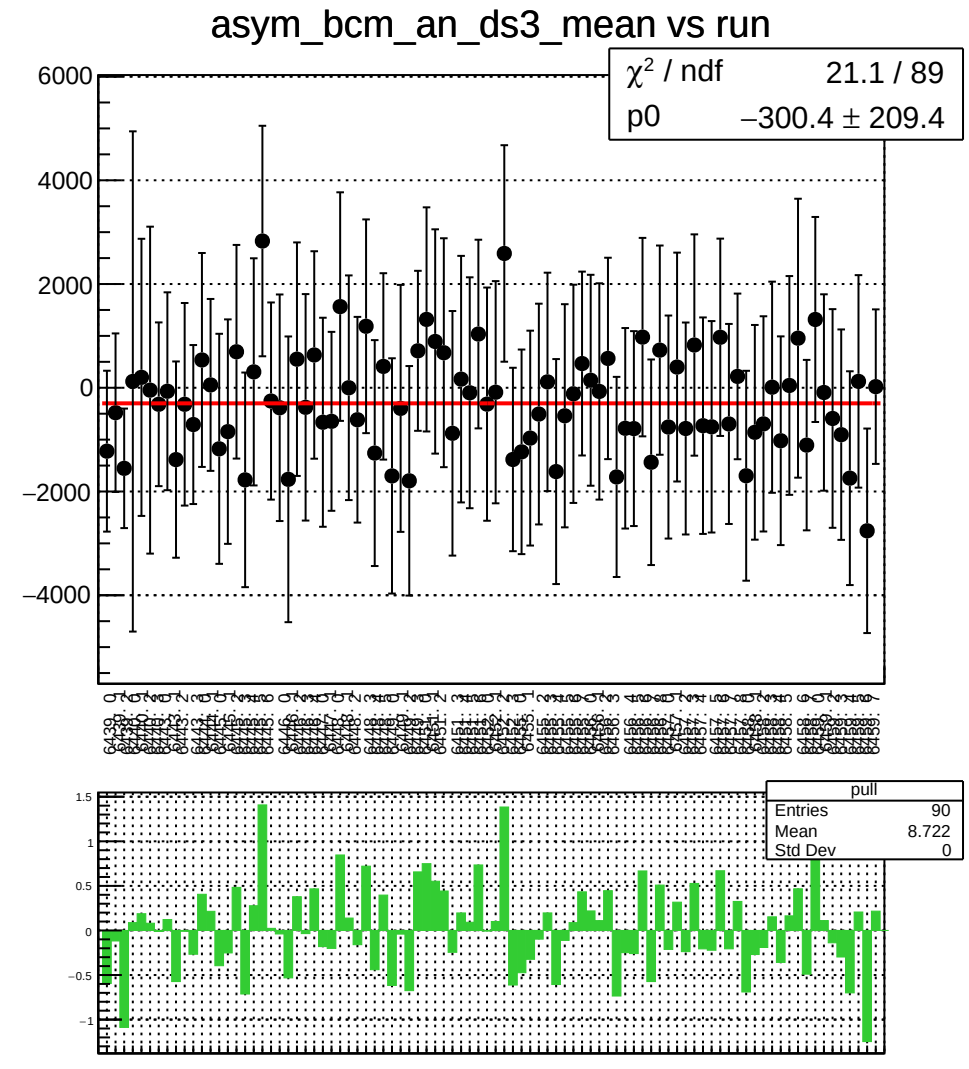

pull1D
Entries 90
Mean −0.01089
Std Dev 0.9352

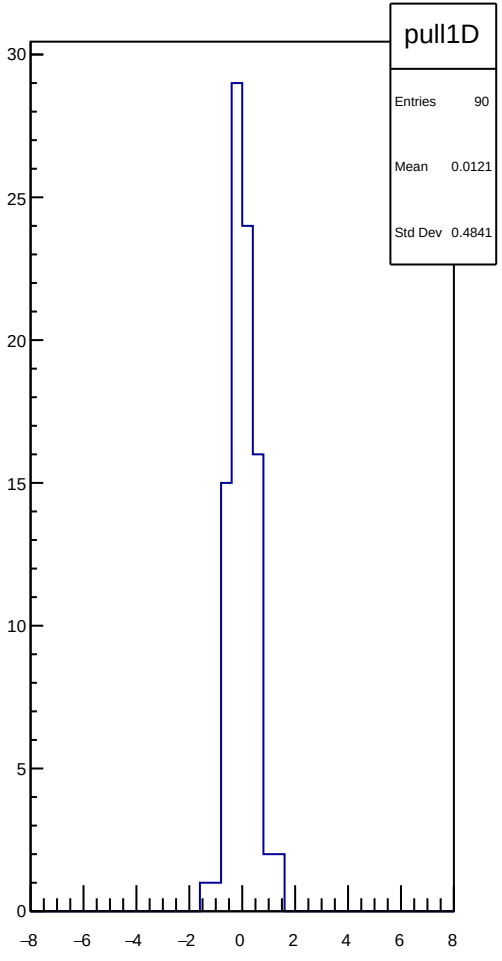

asym_bcm_an_diff_rms vs run
×10^3
1000
800
600
400
200
χ² / ndf 2.425e+05 / 71
p0 2.992e+04 ± 27.99

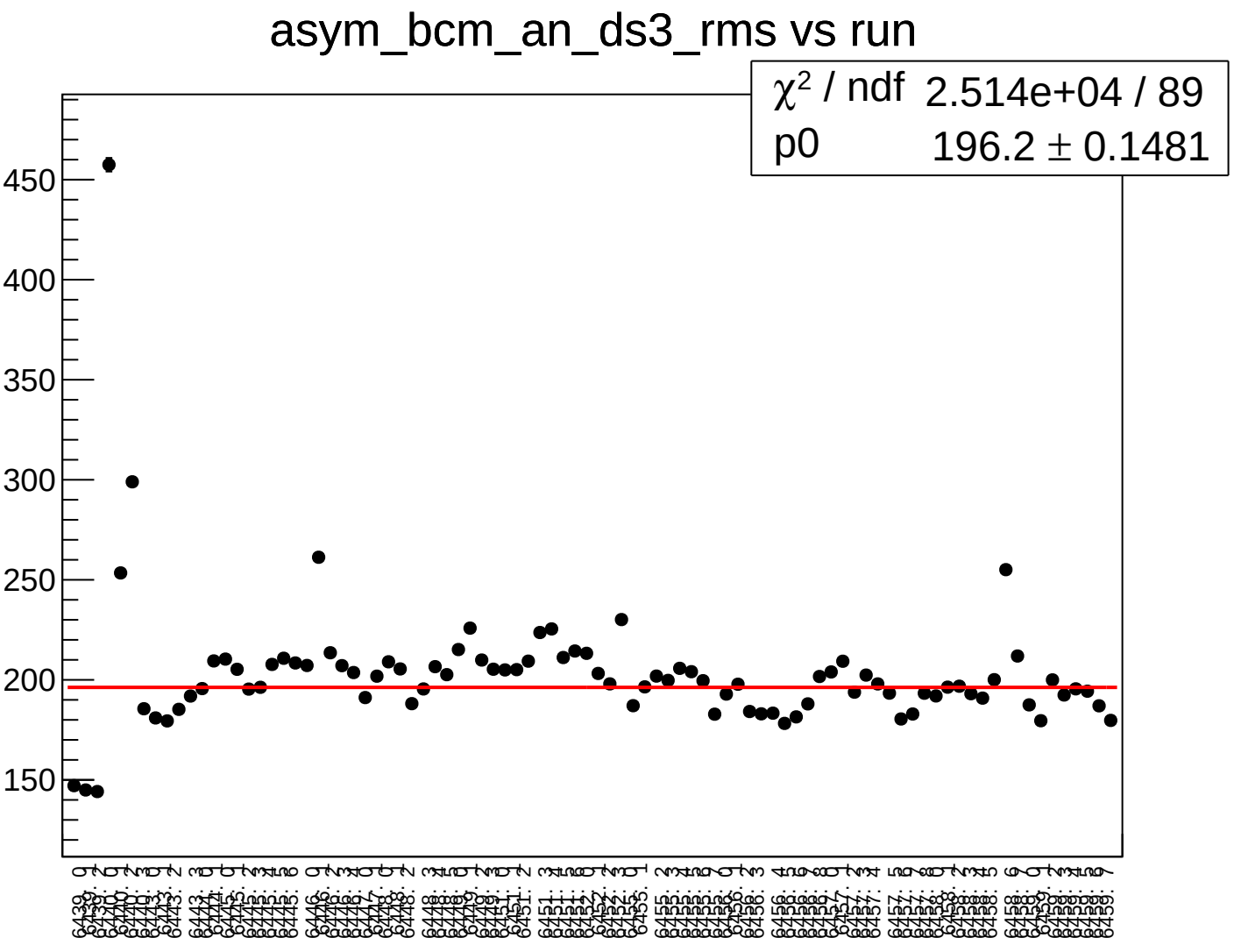

asym_bcm_an_ds_mean vs run
χ² / ndf 21.2 / 89
p0 −294.7 ± 208.8
4000
2000
0
−2000
−4000
pull
Entries 90
Mean −16.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1

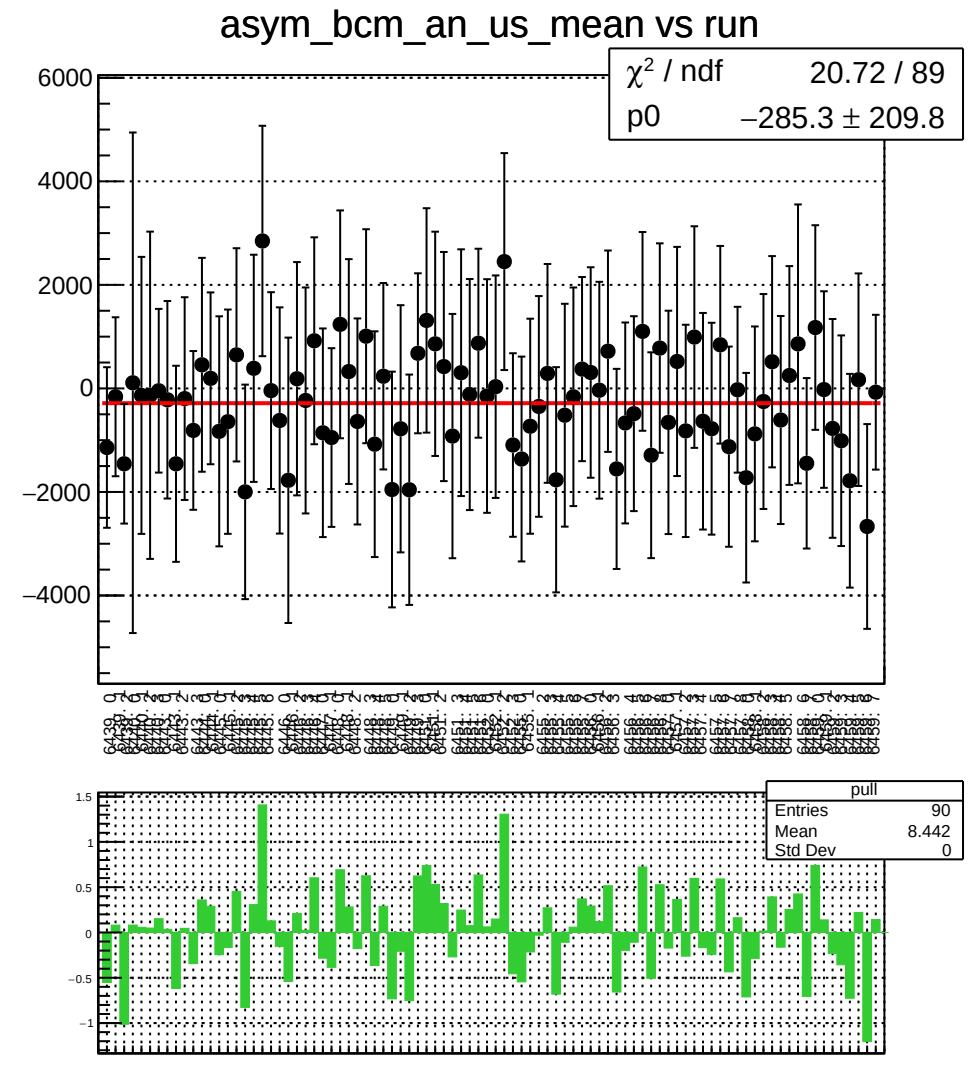

pull1D
Entries 90
Mean 0.01145
Std Dev 0.4852
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

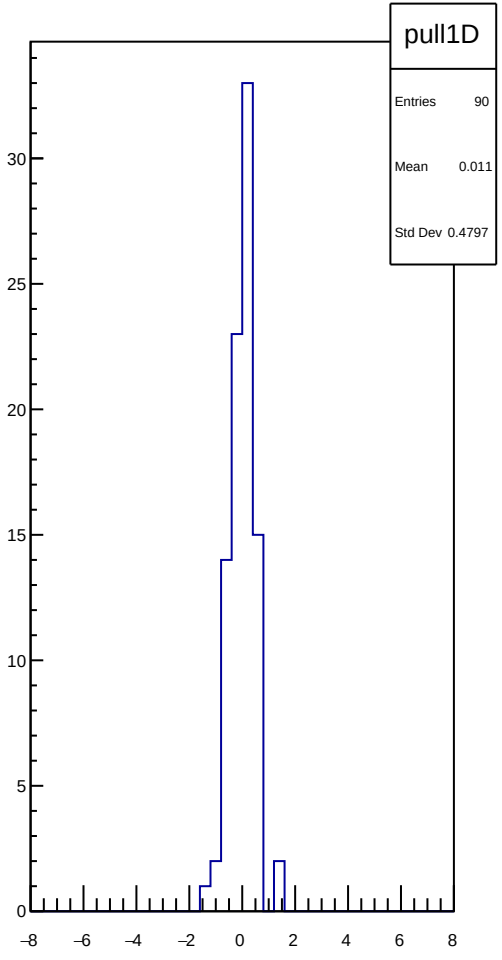

asym_bcm_an_ds_rms vs run
χ² / ndf 2.507e+04 / 89
p0 195.7 ± 0.1476
450
400
350
300
250
200
150

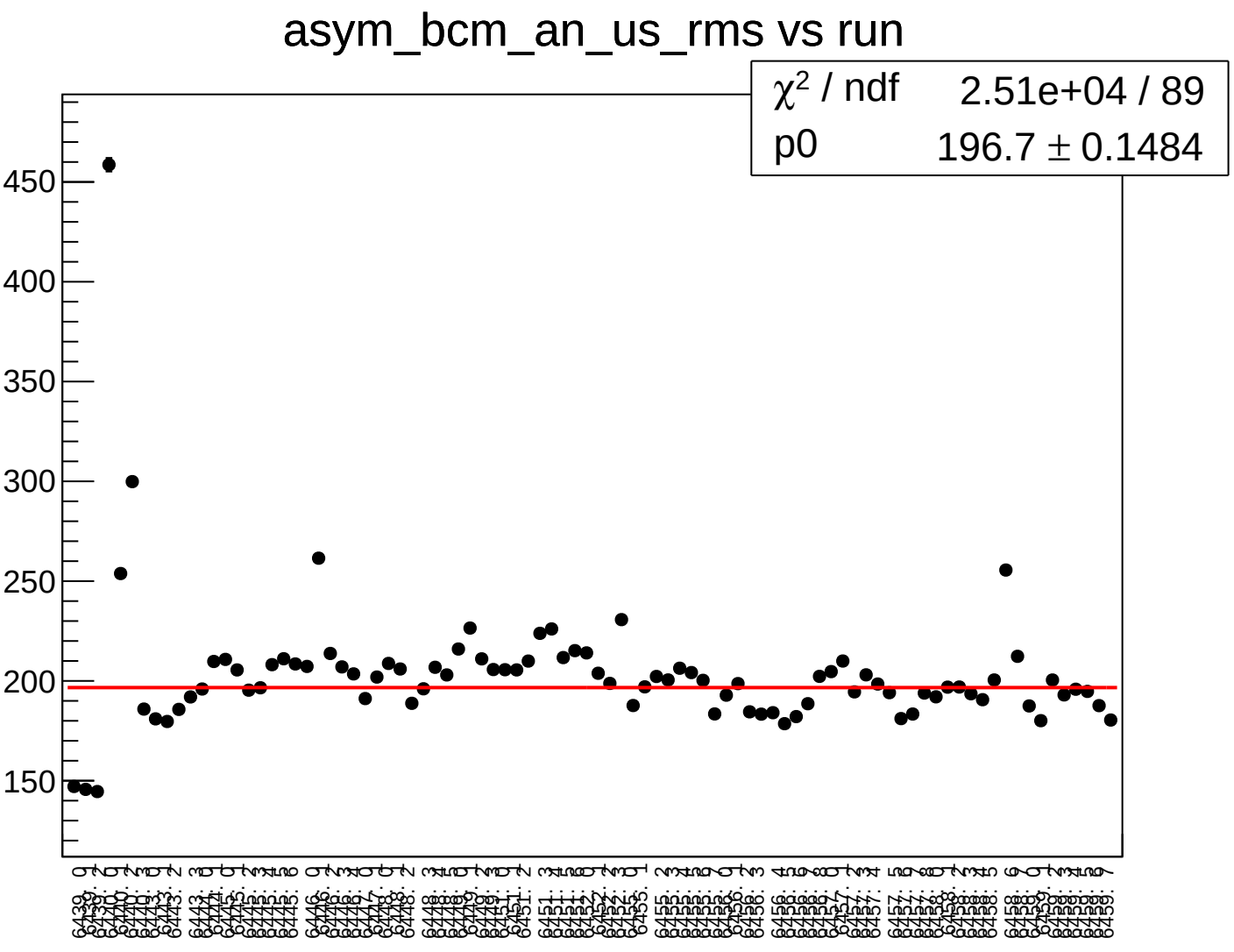

asym_bcm_an_ds3_mean vs run
χ² / ndf 21.1 / 89
p0 −300.4 ± 209.4
6000
4000
2000
0
−2000
−4000
pull
Entries 90
Mean 8.722
Std Dev 0
1.5
1
0.5
0
−0.5
−1

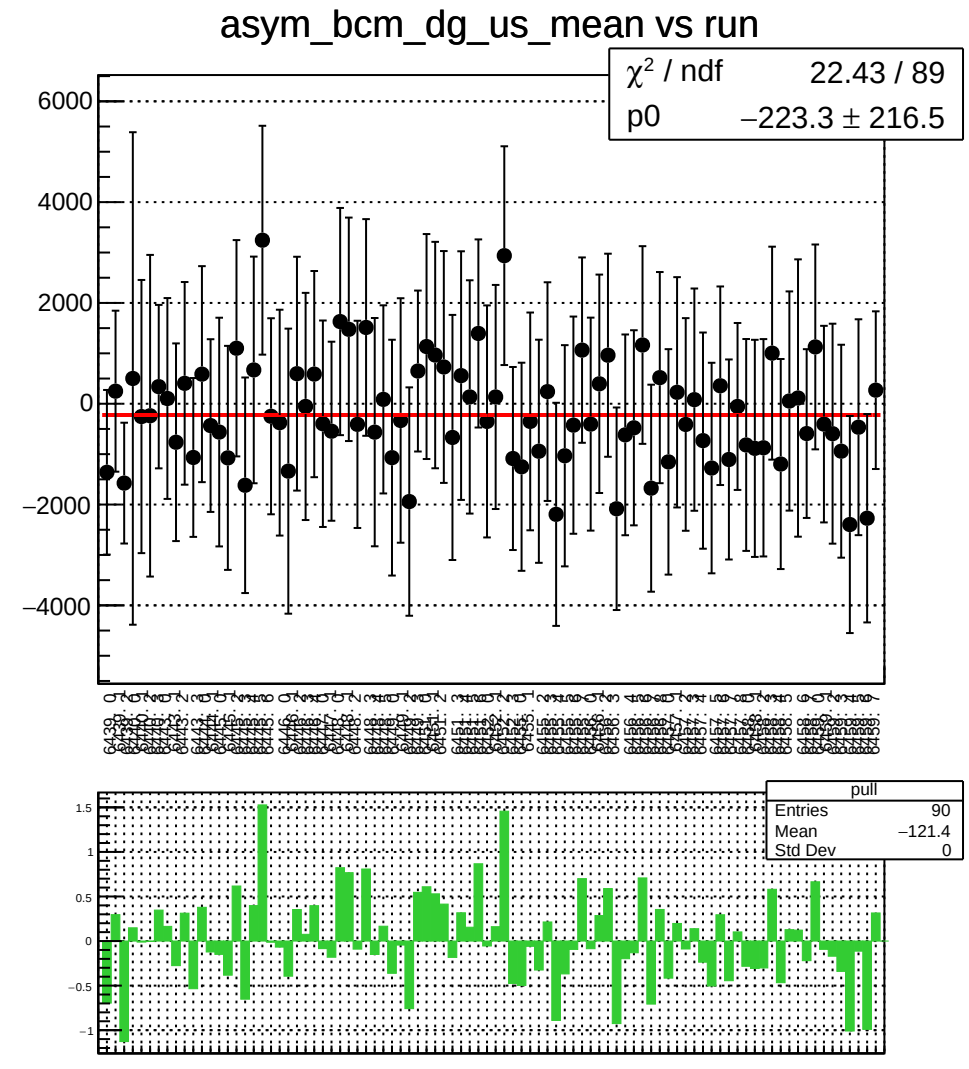

pull1D
Entries 90
Mean 0.0121
Std Dev 0.4841
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

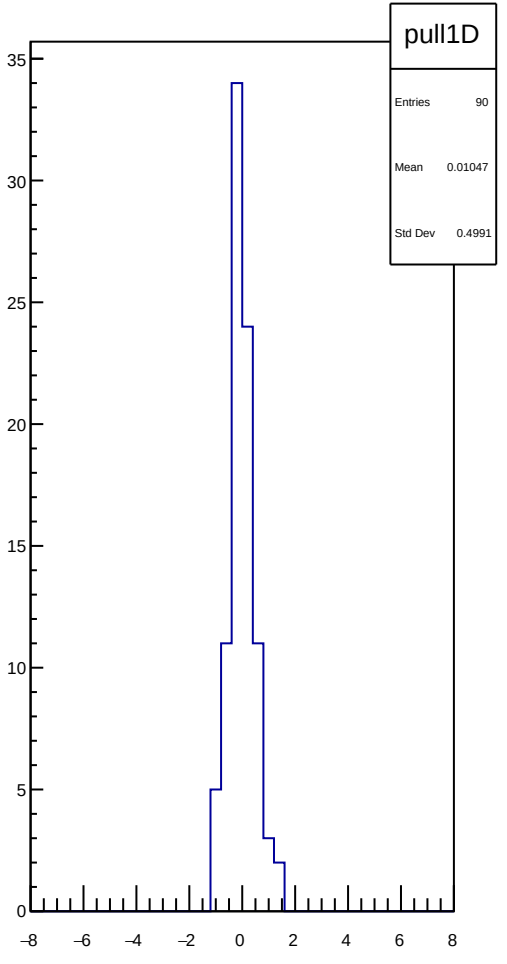

asym_bcm_an_ds3_rms vs run
χ² / ndf 2.514e+04 / 89
p0 196.2 ± 0.1481
450
400
350
300
250
200
150

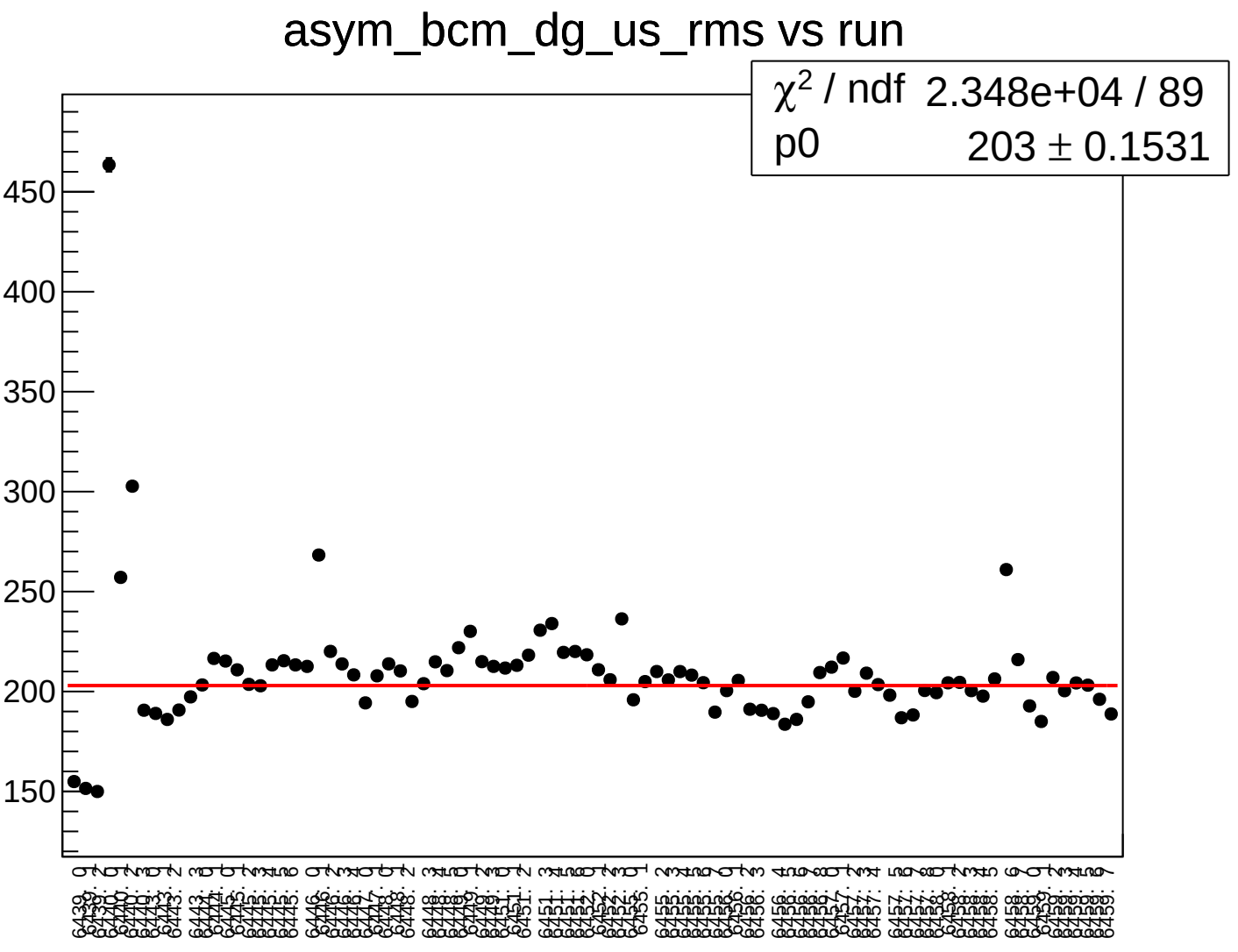

asym_bcm_an_us_mean vs run
χ² / ndf 20.72 / 89
p0 −285.3 ± 209.8
6000
4000
2000
0
−2000
−4000
pull
Entries 90
Mean 8.442
Std Dev 0
1.5
1
0.5
0
−0.5
−1

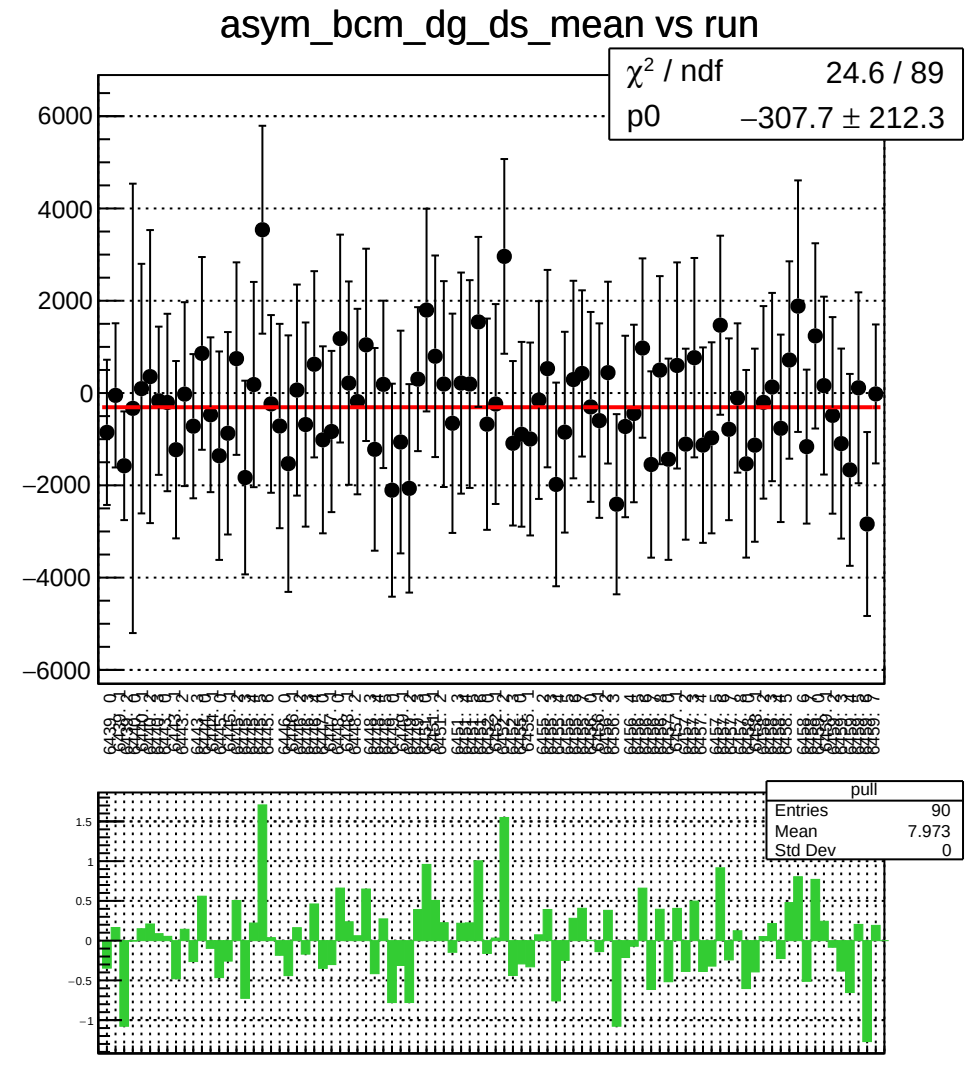

pull1D
Entries 90
Mean 0.011
Std Dev 0.4797
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

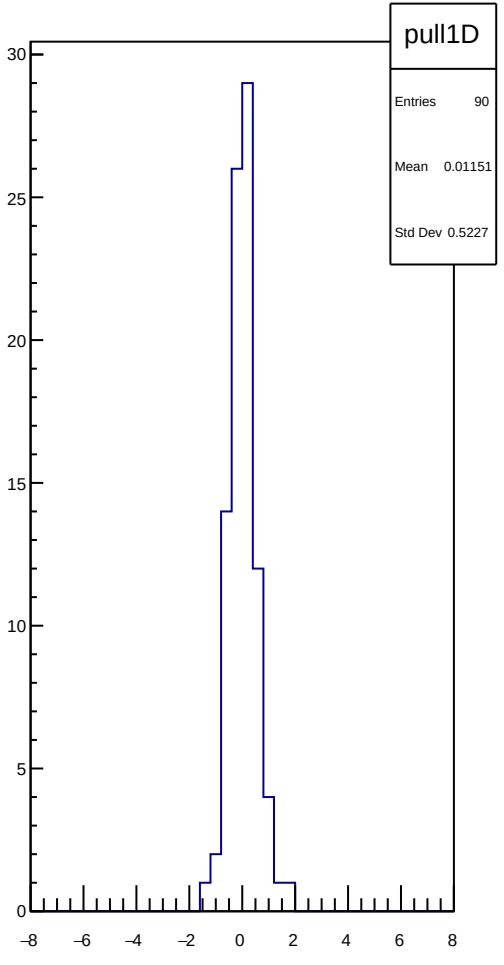

asym_bcm_an_us_rms vs run
χ² / ndf 2.51e+04 / 89
p0 196.7 ± 0.1484
450
400
350
300
250
200
150

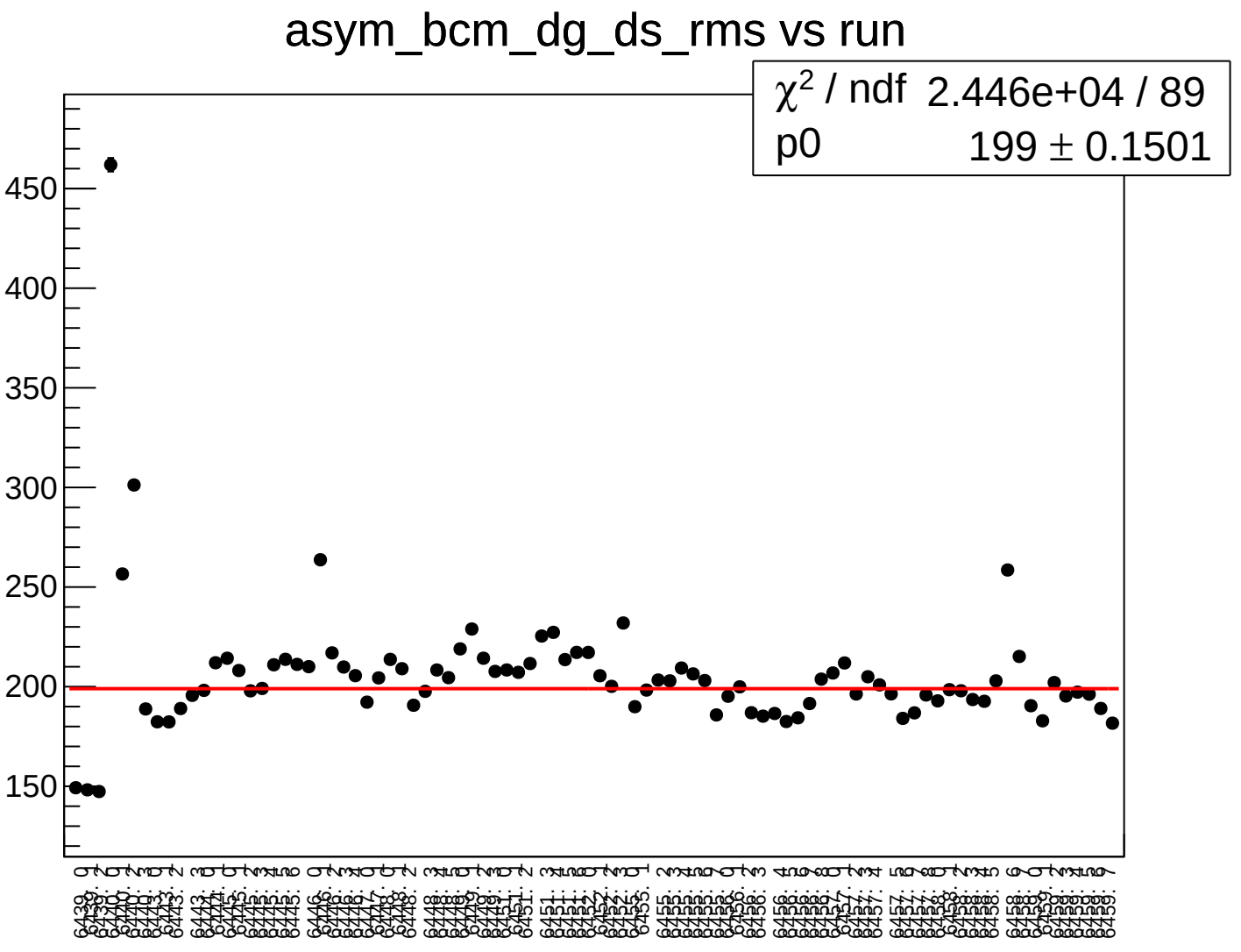

asym_bcm_dg_us_mean vs run
χ² / ndf 22.43 / 89
p0 −223.3 ± 216.5
6000
4000
2000
0
−2000
−4000
pull
Entries 90
Mean −121.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1

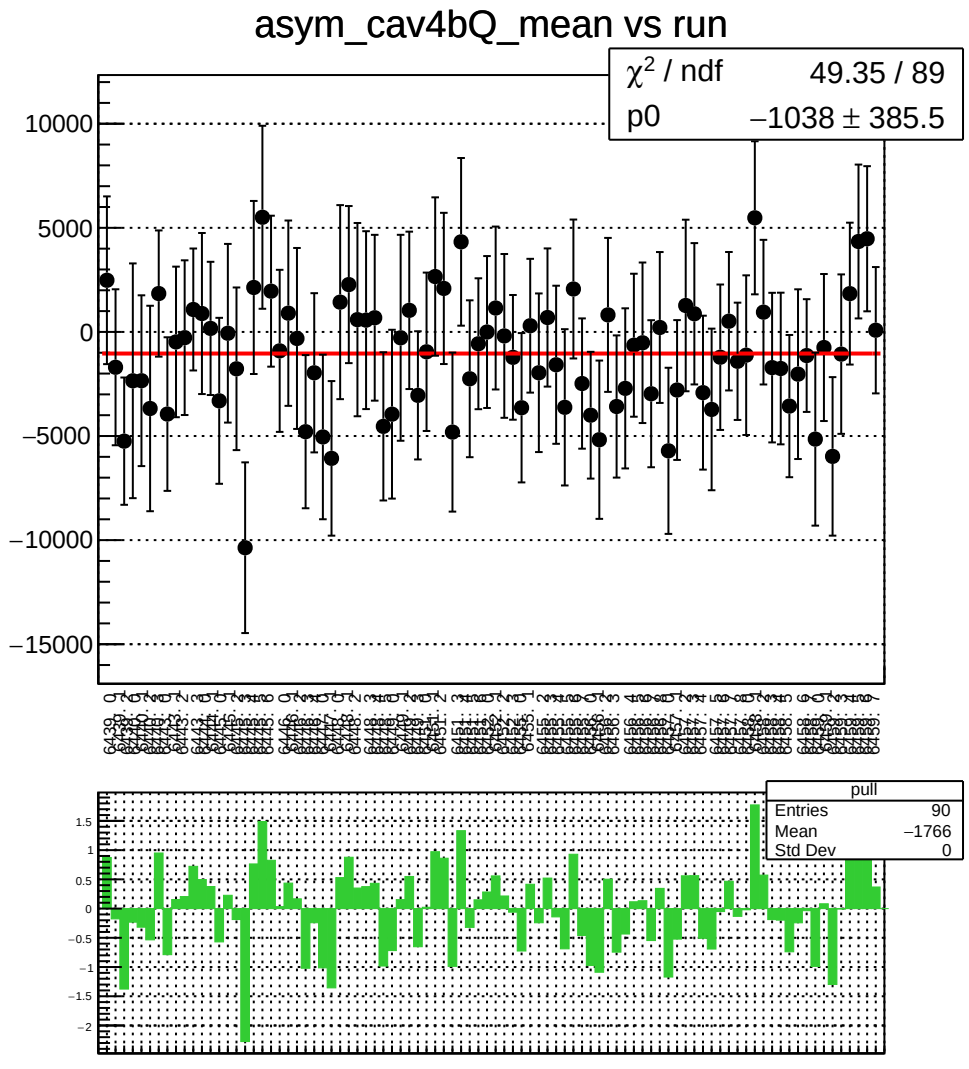

pull1D
Entries 90
Mean 0.01047
Std Dev 0.4991
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

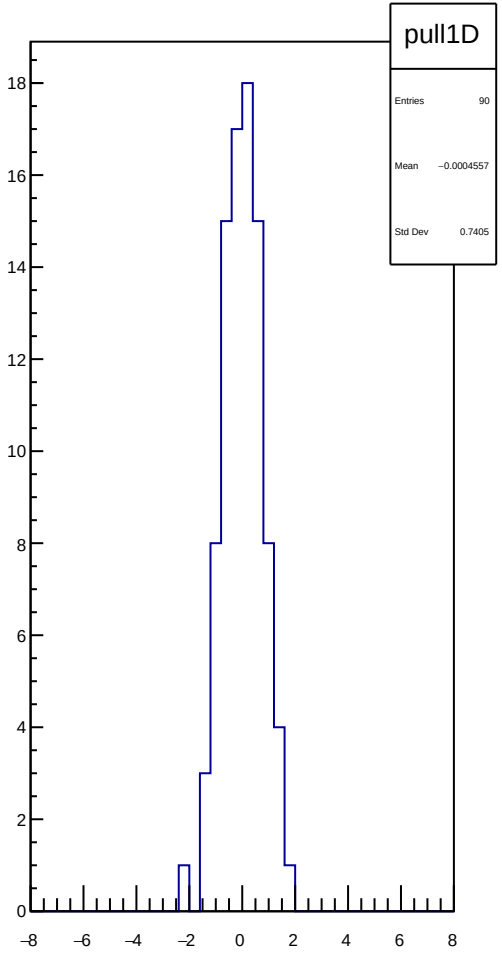

asym_bcm_dg_us_rms vs run
χ^2 / ndf 2.348e+04 / 89
p0 203 ± 0.1531
450
400
350
300
250
200
150

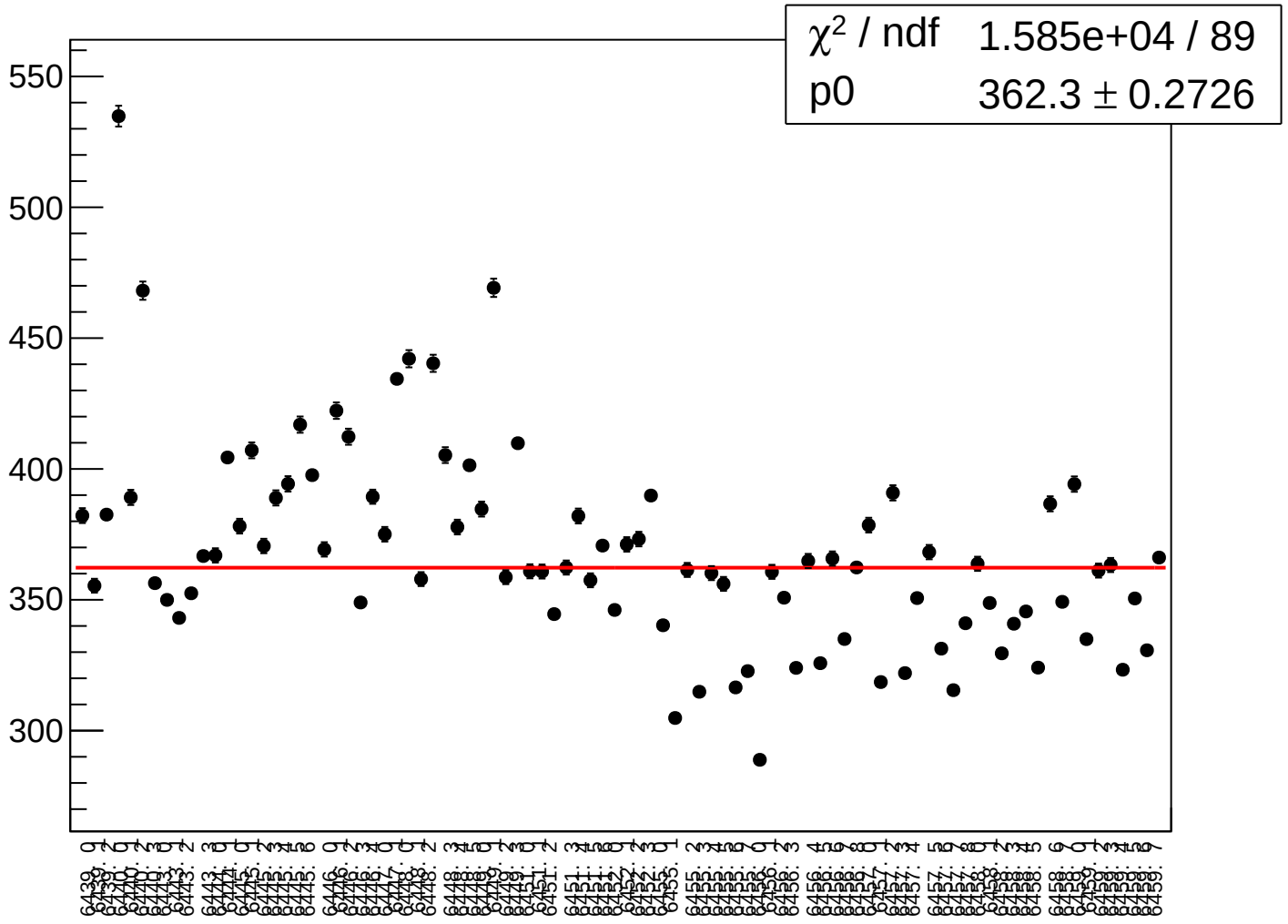

asym_bcm_dg_ds_mean vs run
χ² / ndf 24.6 / 89
p0 −307.7 ± 212.3
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 90
Mean 7.973
Std Dev 0
1.5
1
0.5
0
−0.5
−1

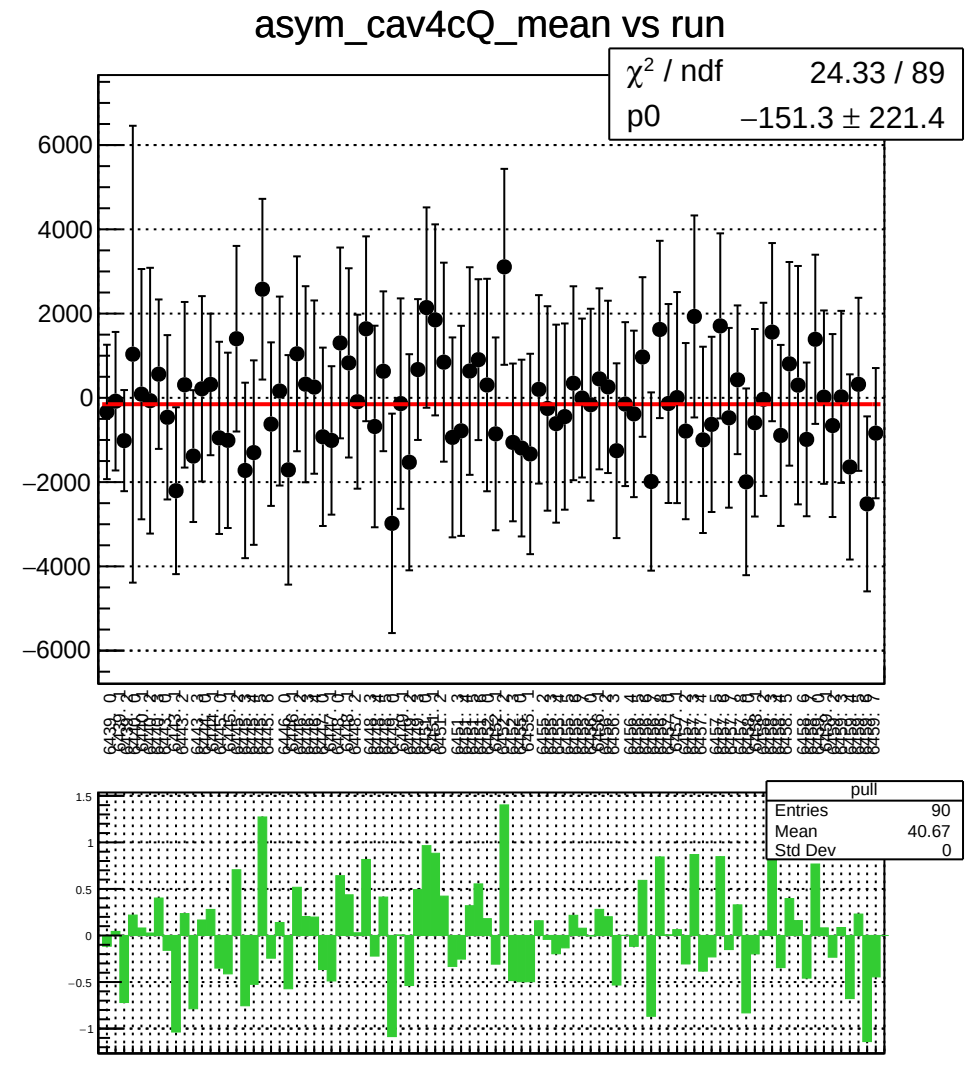

pull1D
Entries 90
Mean 0.01151
Std Dev 0.5227
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

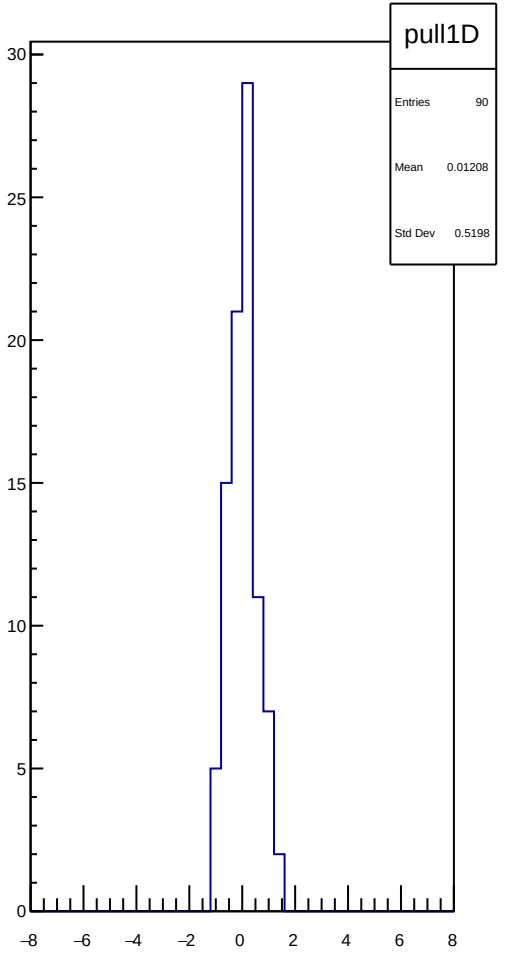

asym_bcm_dg_ds_rms vs run
χ^2 / ndf 2.446e+04 / 89
p0 199 ± 0.1501
450
400
350
300
250
200
150


asym_cav4bQ_mean vs run
χ² / ndf 49.35 / 89
p0 −1038 ± 385.5
10000
5000
0
−5000
−10000
−15000
pull
Entries 90
Mean −1766
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

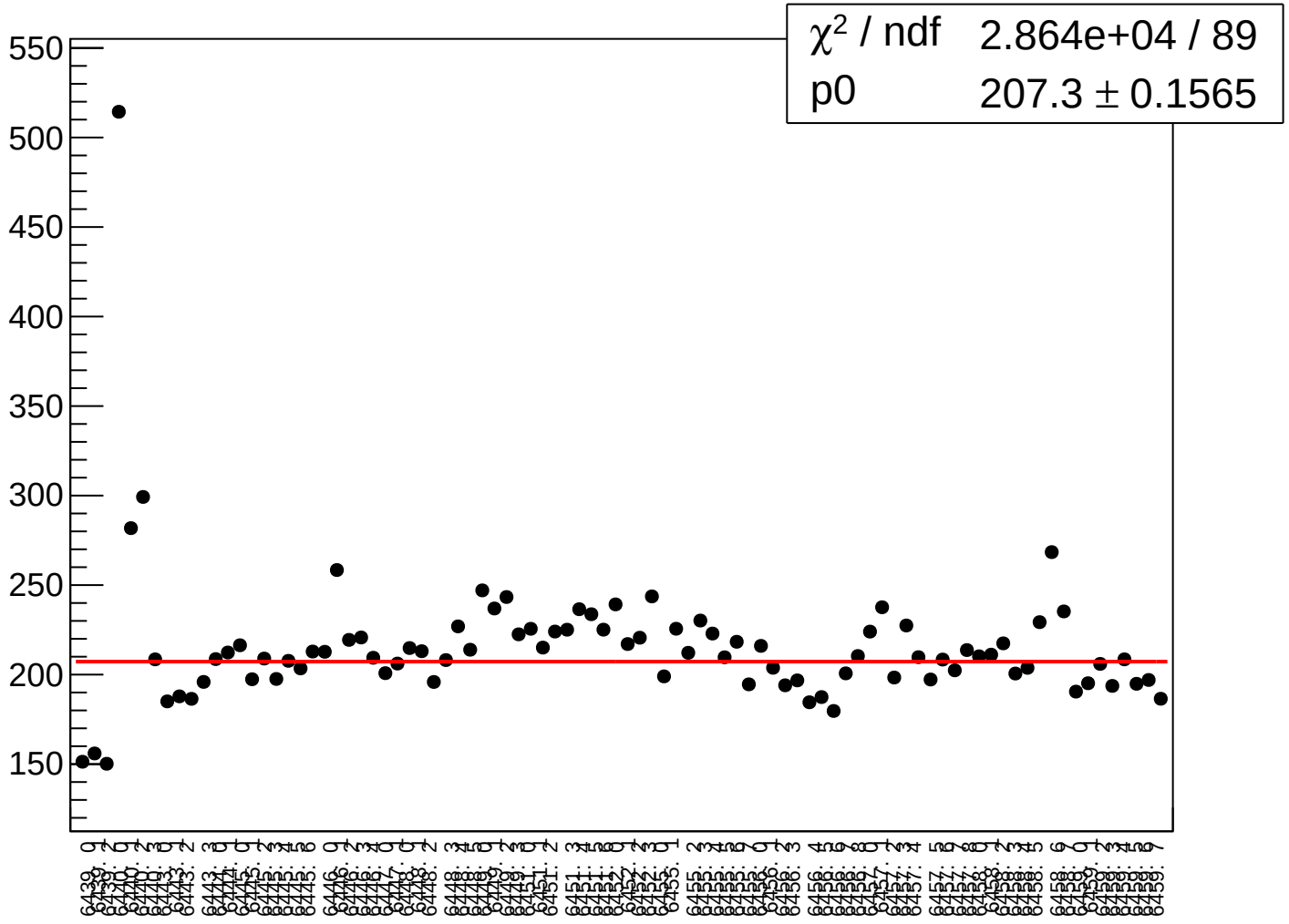

pull1D
Entries 90
Mean −0.0004557
Std Dev 0.7405
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

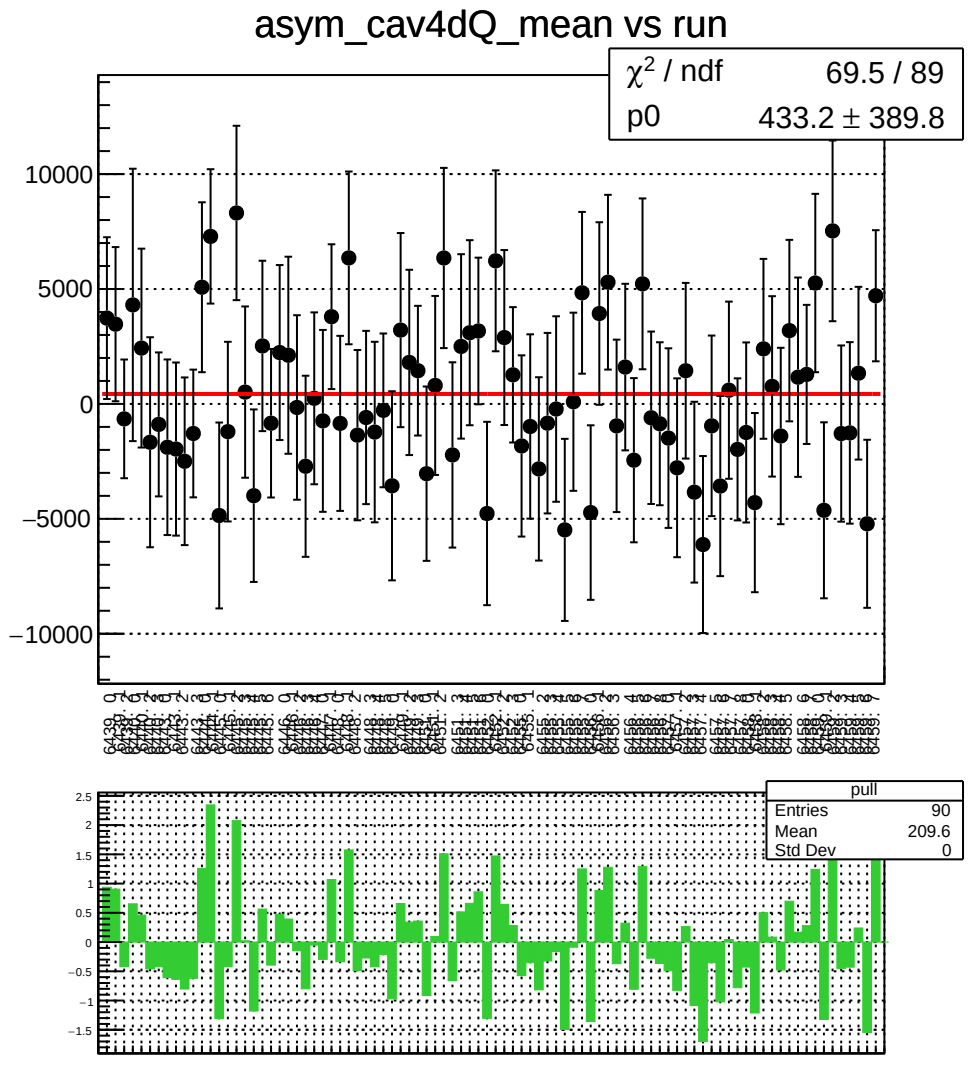

asym_cav4bQ_rms vs run
χ² / ndf 1.585e+04 / 89
p0 362.3 ± 0.2726
550
500
450
400
350
300

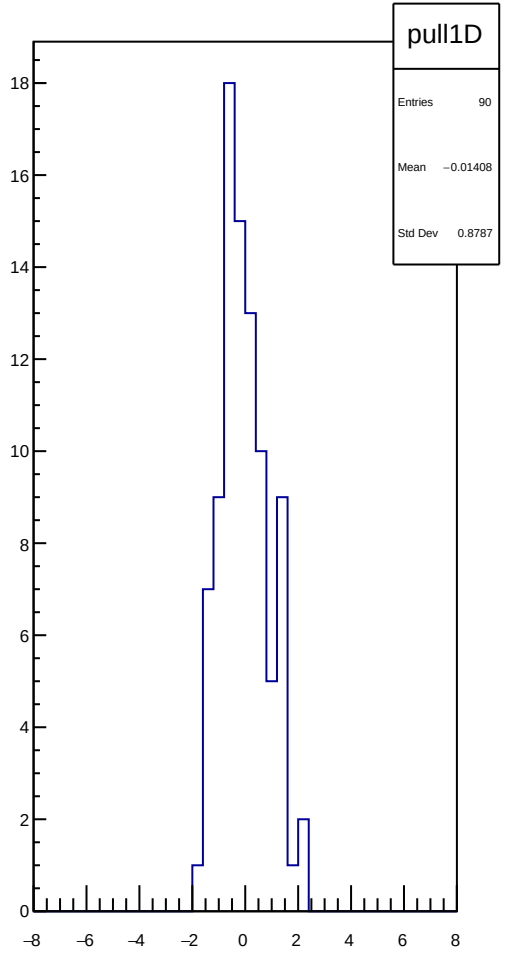

asym_cav4cQ_mean vs run
χ² / ndf 24.33 / 89
p0 −151.3 ± 221.4
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 90
Mean 40.67
Std Dev 0
1.5
1
0.5
0
−0.5
−1

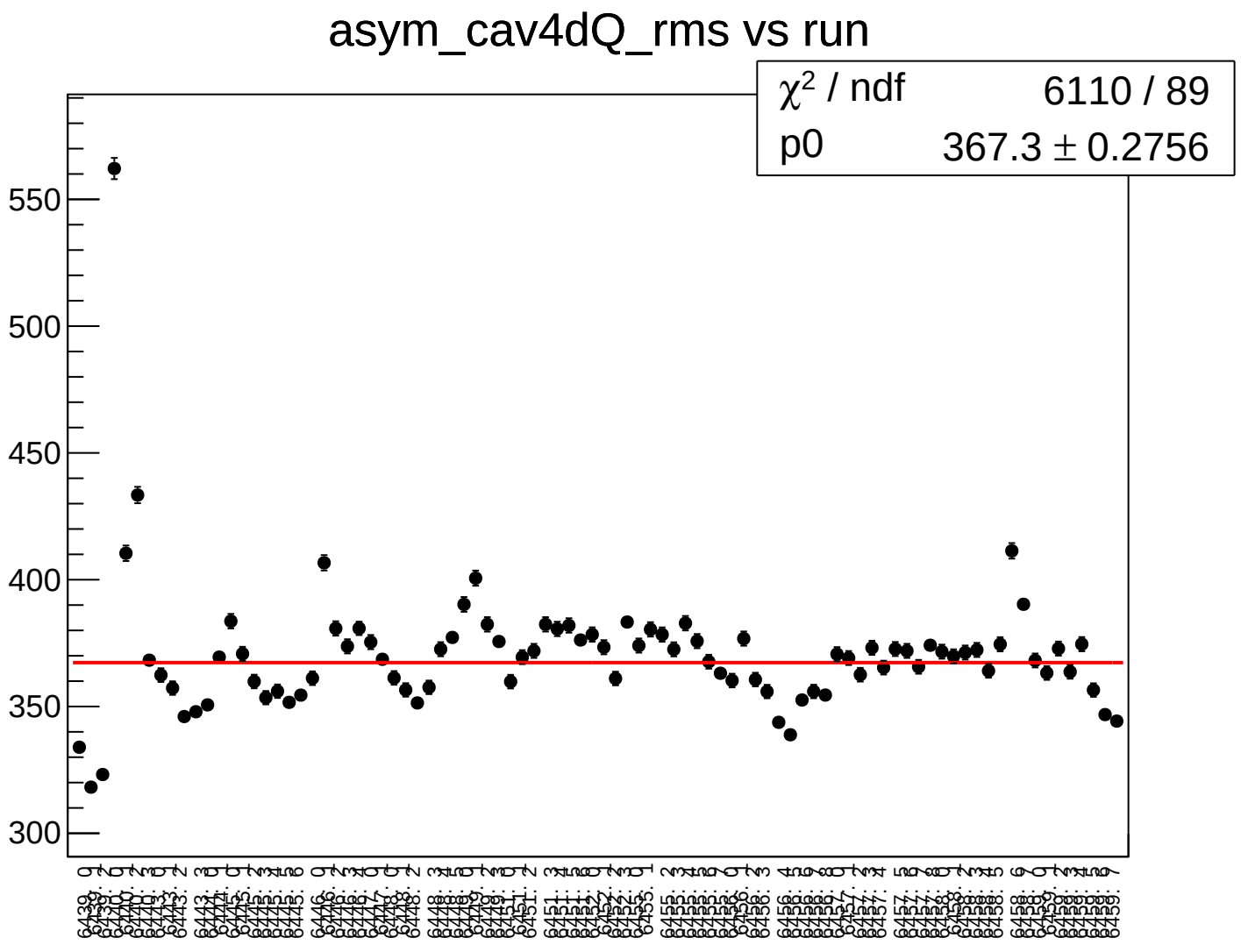

pull1D
Entries 90
Mean 0.01208
Std Dev 0.5198
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

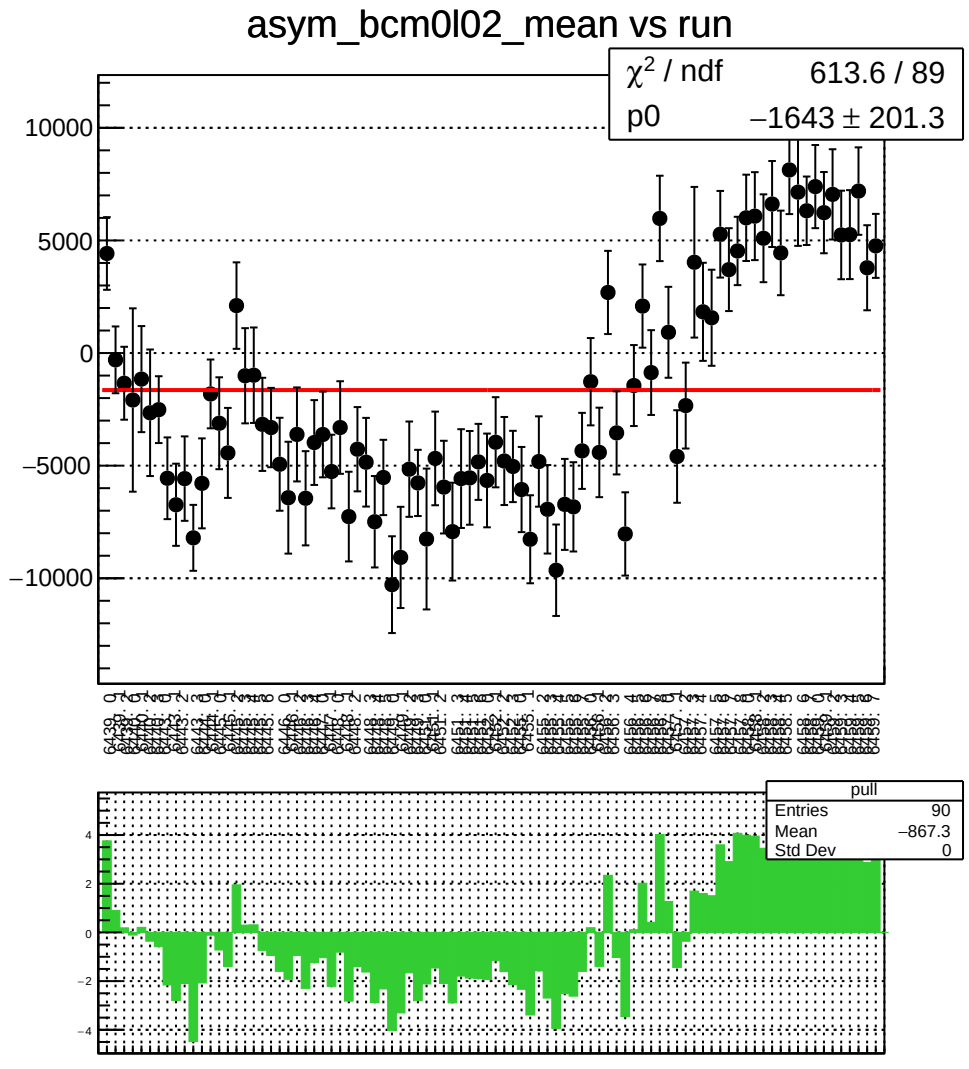
asym_cav4cQ_rms vs run

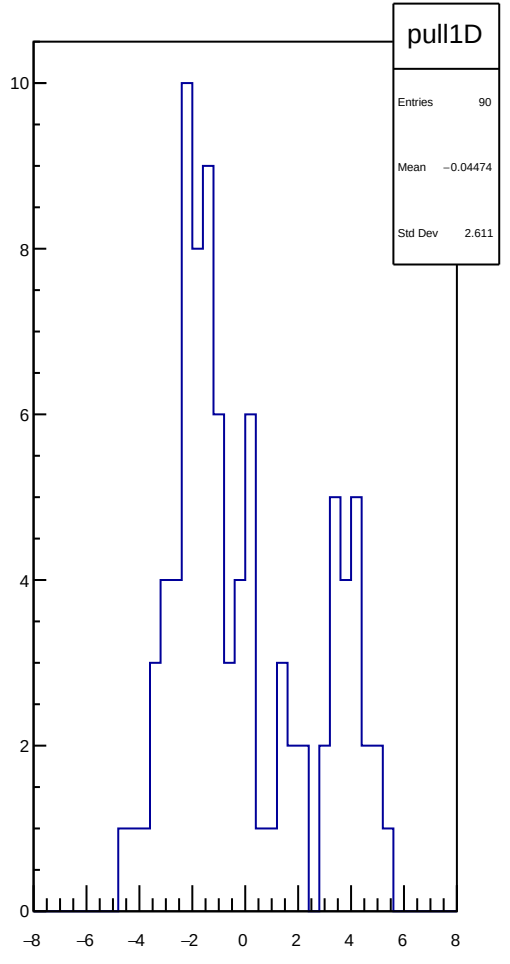


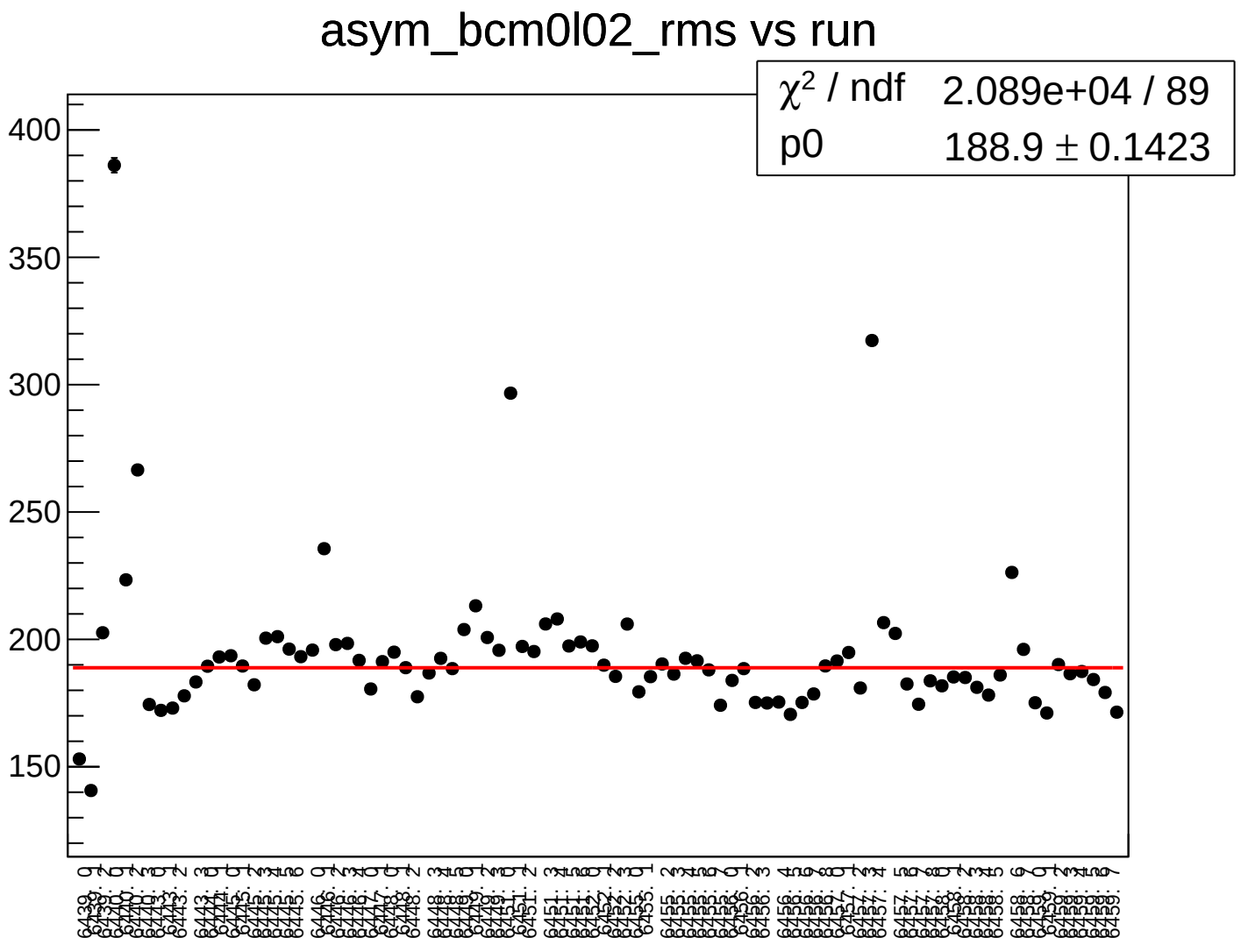

asym_cav4dQ_mean vs run
χ² / ndf 69.5 / 89
p0 433.2 ± 389.8
10000
5000
0
−5000
−10000
pull
Entries 90
Mean 209.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

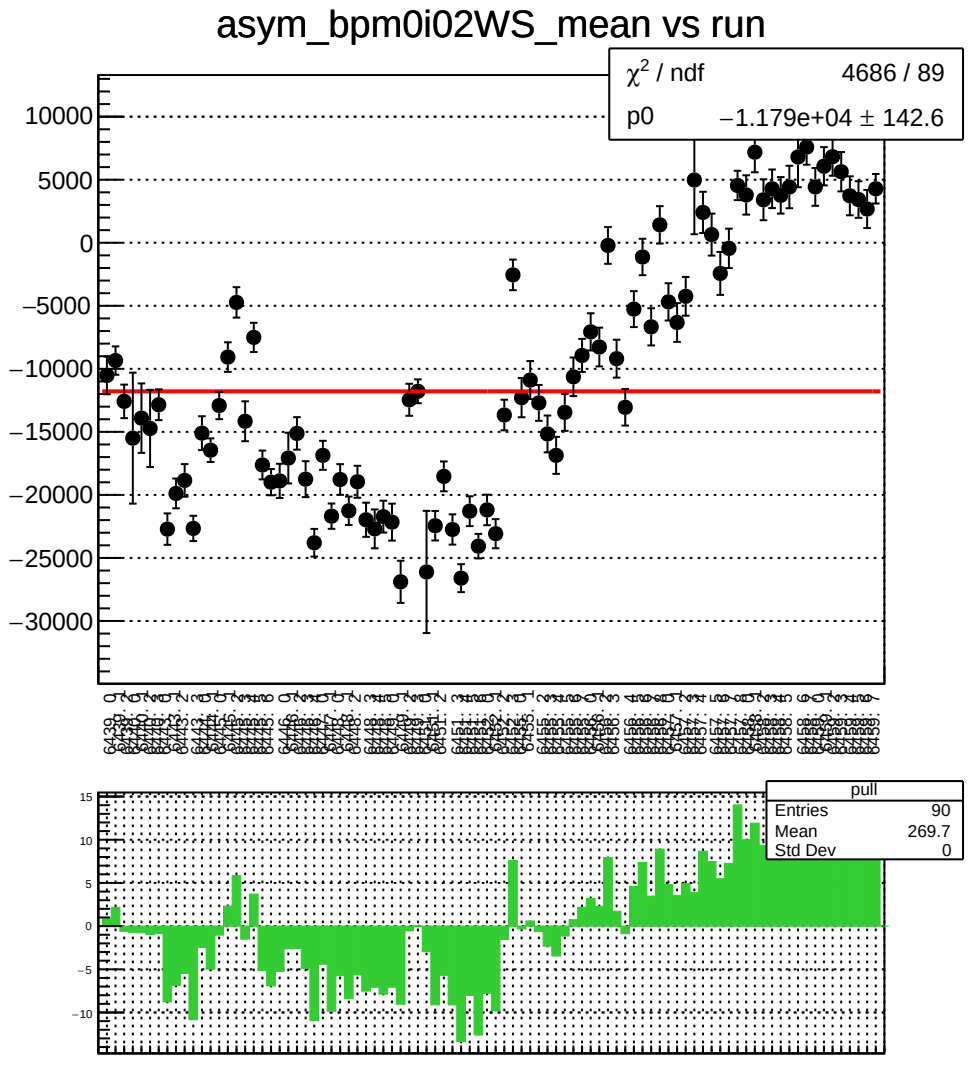

pull1D
Entries 90
Mean −0.01408
Std Dev 0.8787
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

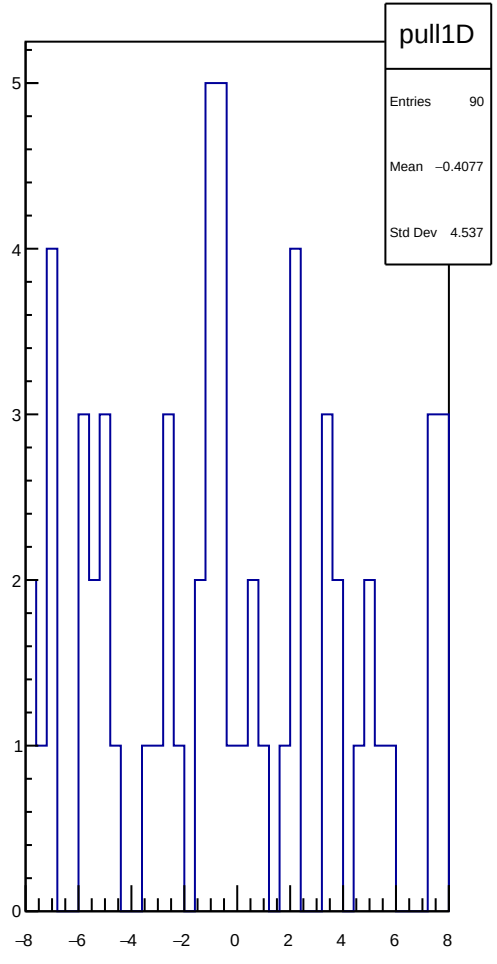

asym_cav4dQ_rms vs run
χ² / ndf 6110 / 89
p0 367.3 ± 0.2756
550
500
450
400
350
300

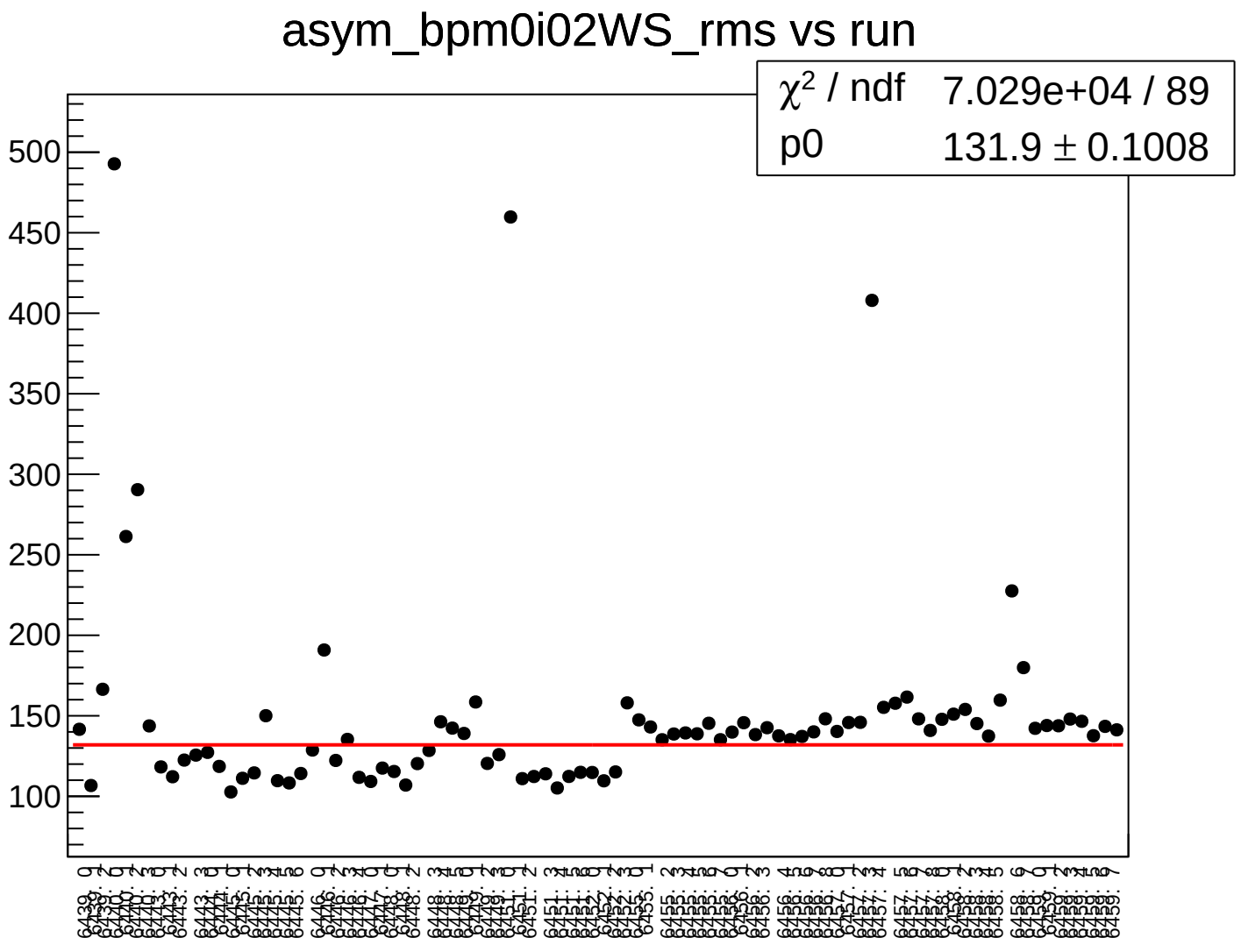

asym_bcm0l02_mean vs run
χ² / ndf 613.6 / 89
p0 −1643 ± 201.3
10000
5000
0
−5000
−10000
pull
Entries 90
Mean −867.3
Std Dev 0
4
2
0
−2
−4

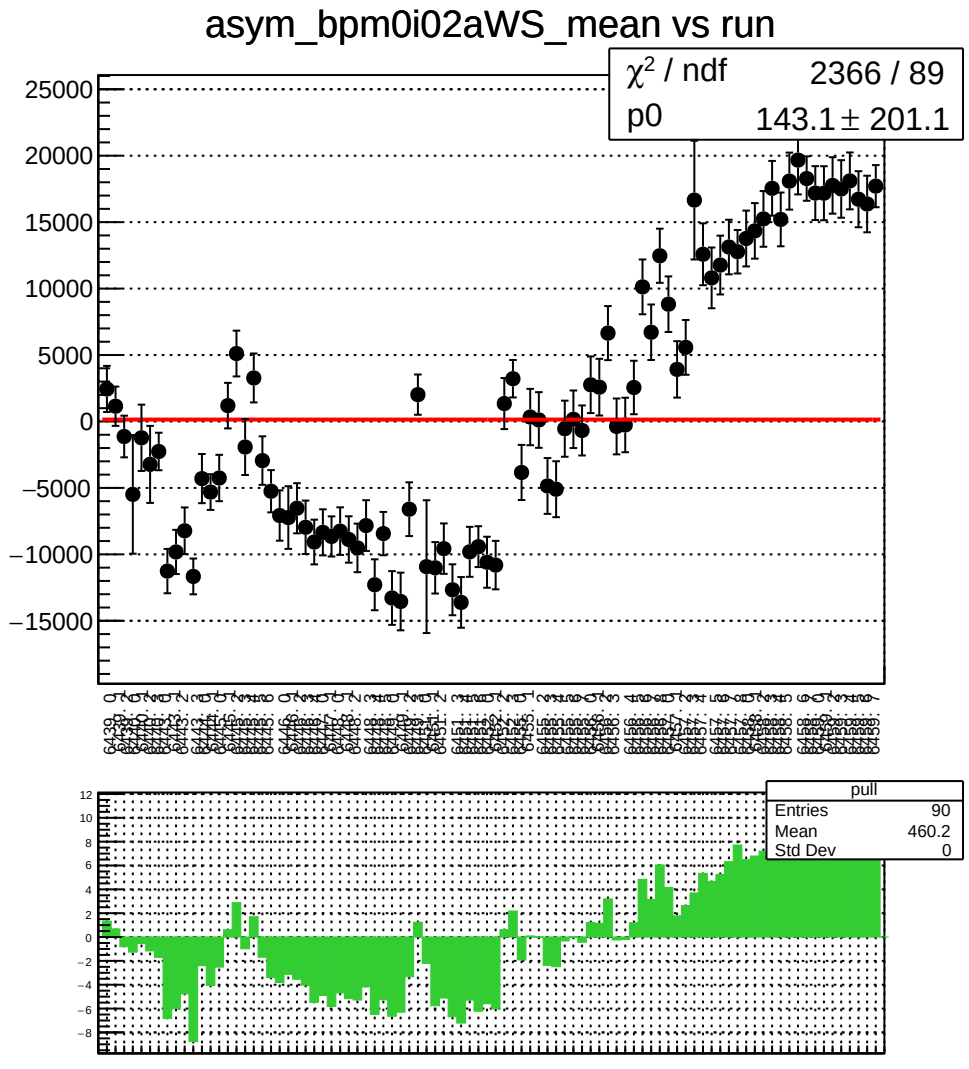

pull1D
Entries 90
Mean −0.04474
Std Dev 2.611
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

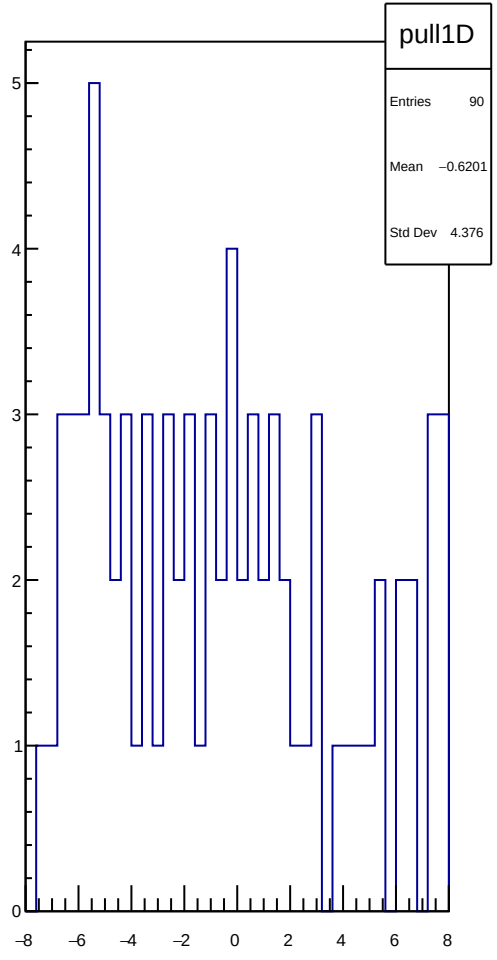

asym_bcm0l02_rms vs run
χ² / ndf 2.089e+04 / 89
p0 188.9 ± 0.1423
400
350
300
250
200
150

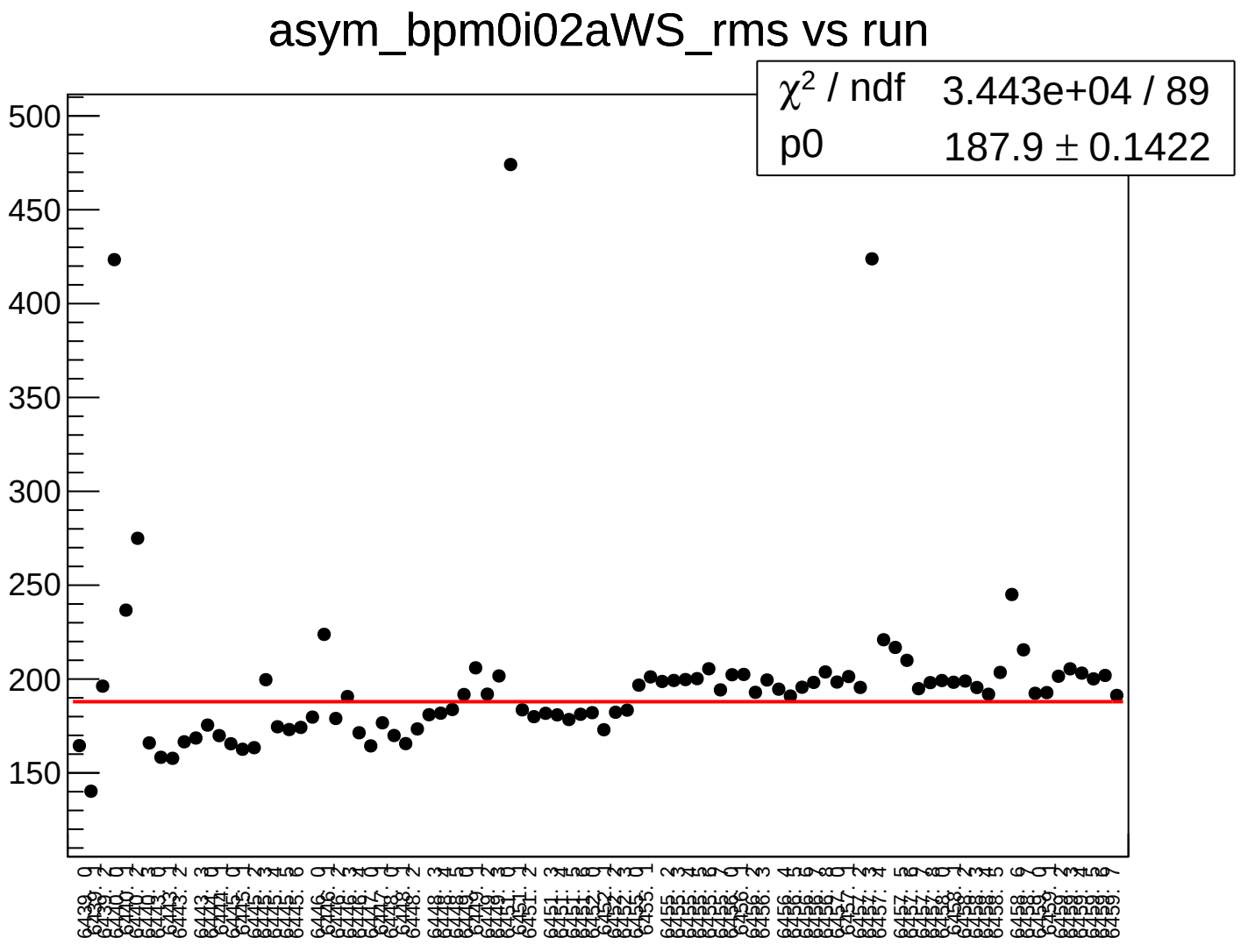

asym_bpm0i02WS_mean vs run
χ² / ndf 4686 / 89
p0 −1.179e+04 ± 142.6
pull
Entries 90
Mean 269.7
Std Dev 0

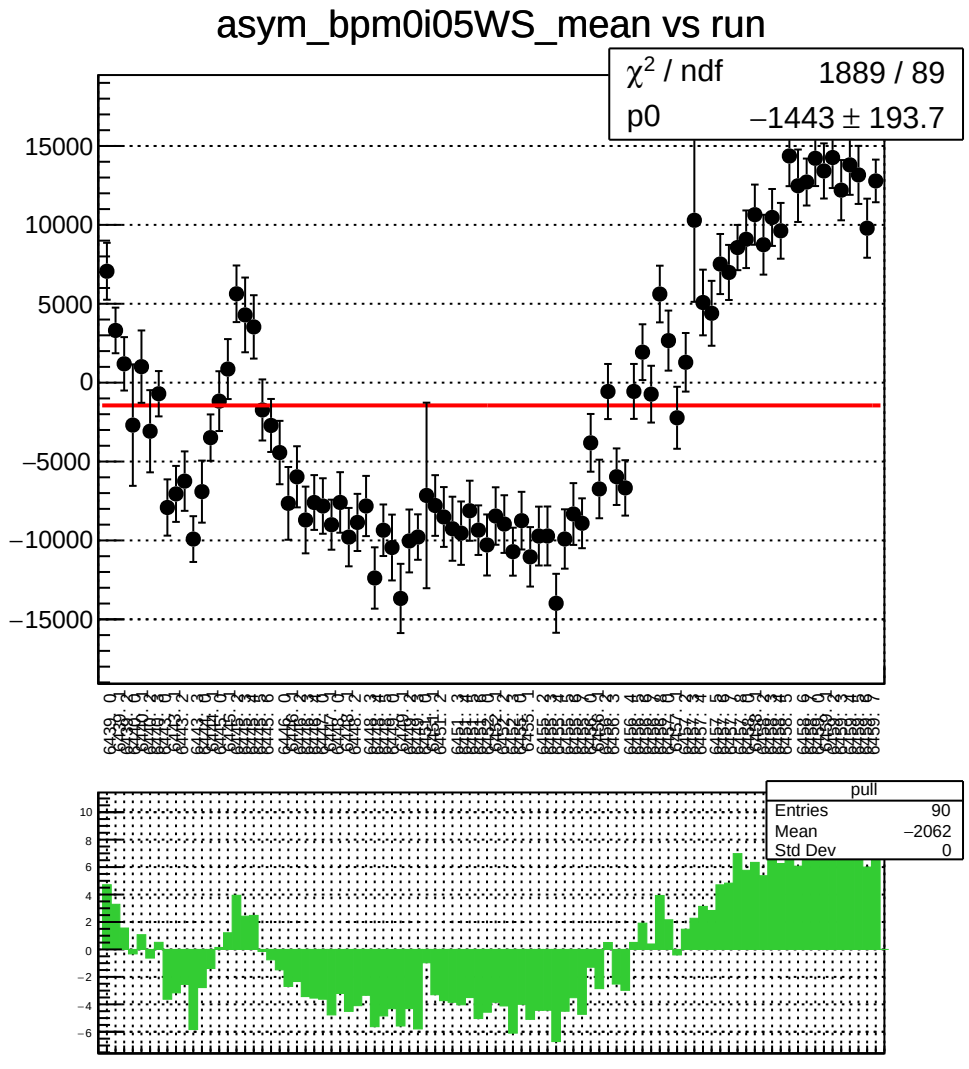

pull1D
Entries 90
Mean −0.4077
Std Dev 4.537

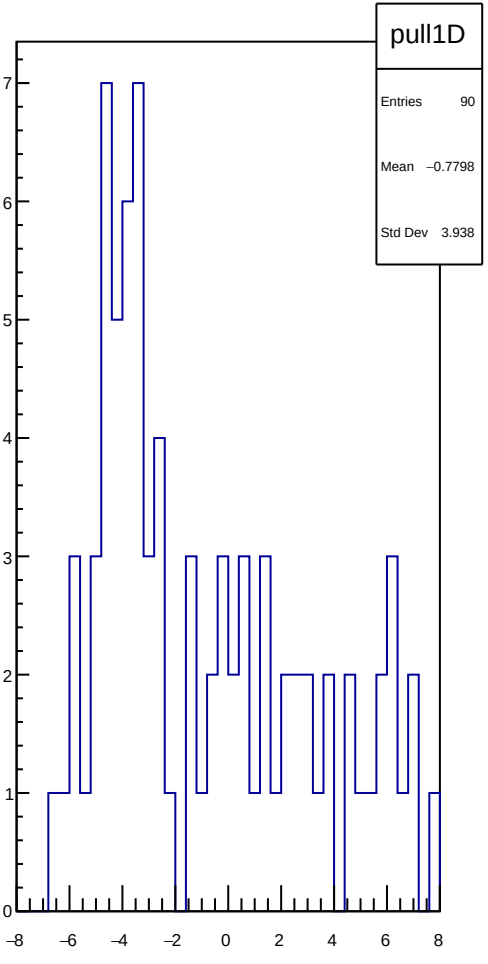

asym_bpm0i02WS_rms vs run
χ² / ndf 7.029e+04 / 89
p0 131.9 ± 0.1008
500
450
400
350
300
250
200
150
100

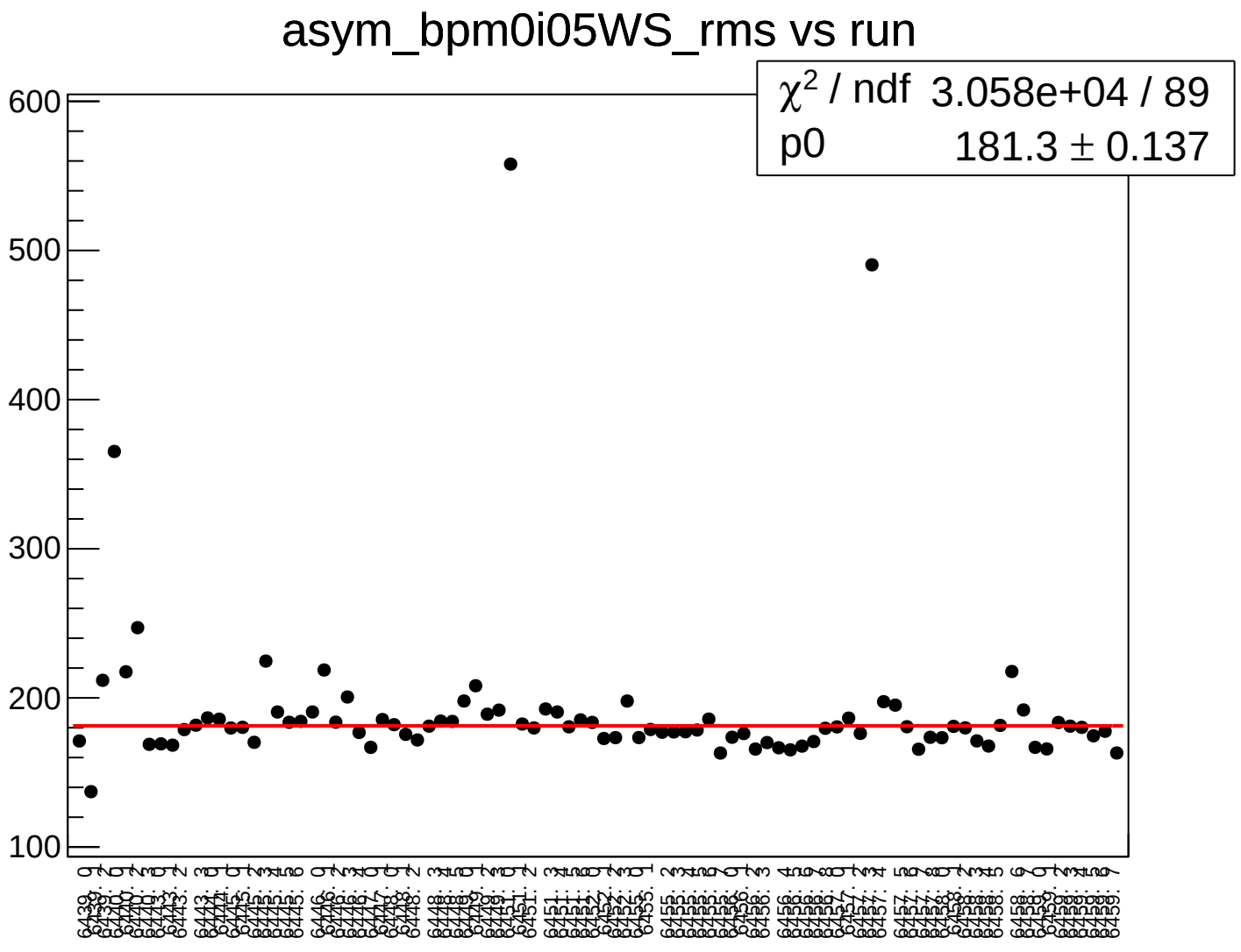

asym_bpm0i02aWS_mean vs run
χ² / ndf 2366 / 89
p0 143.1 ± 201.1
pull
Entries 90
Mean 460.2
Std Dev 0

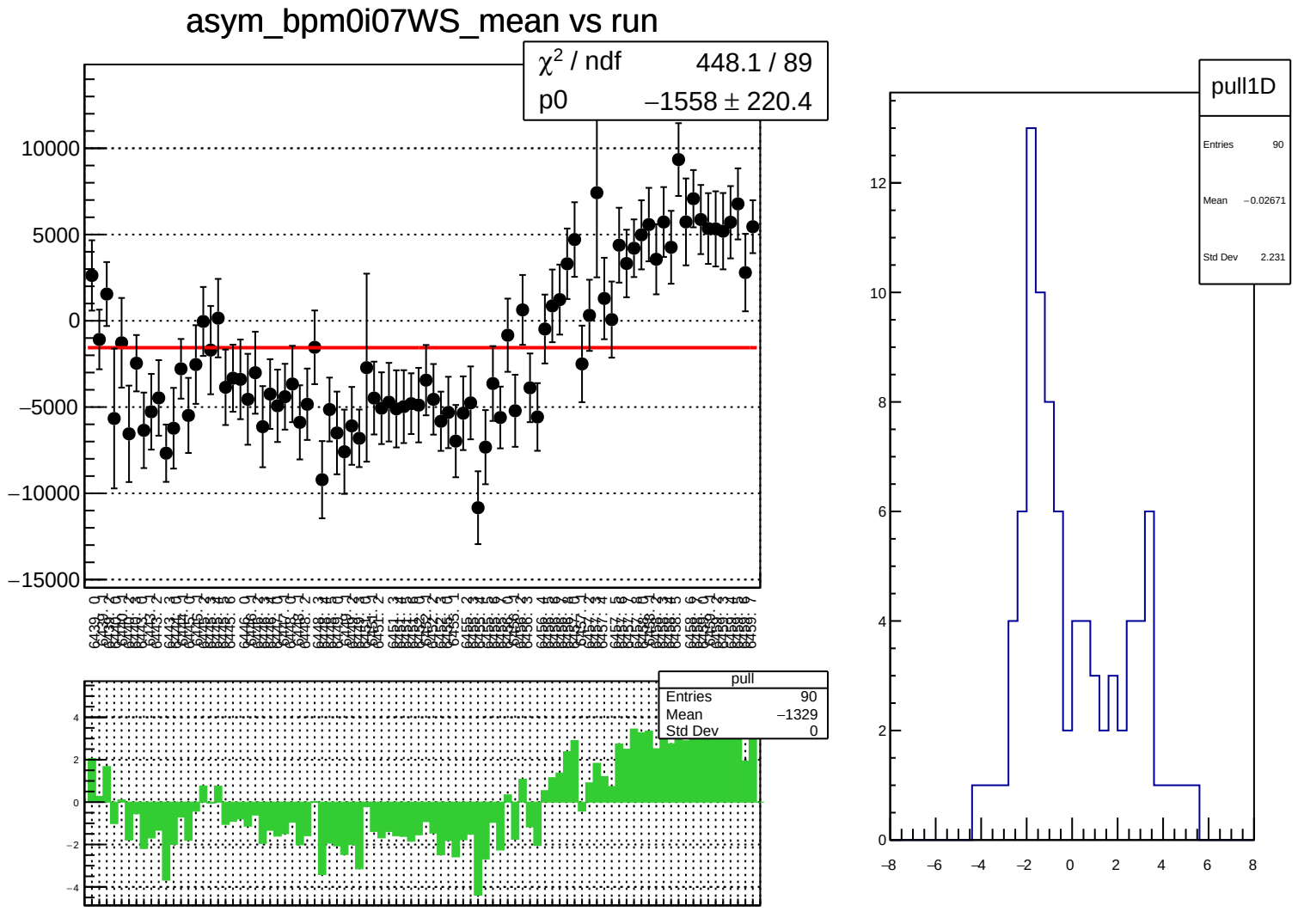

pull1D
Entries 90
Mean −0.6201
Std Dev 4.376

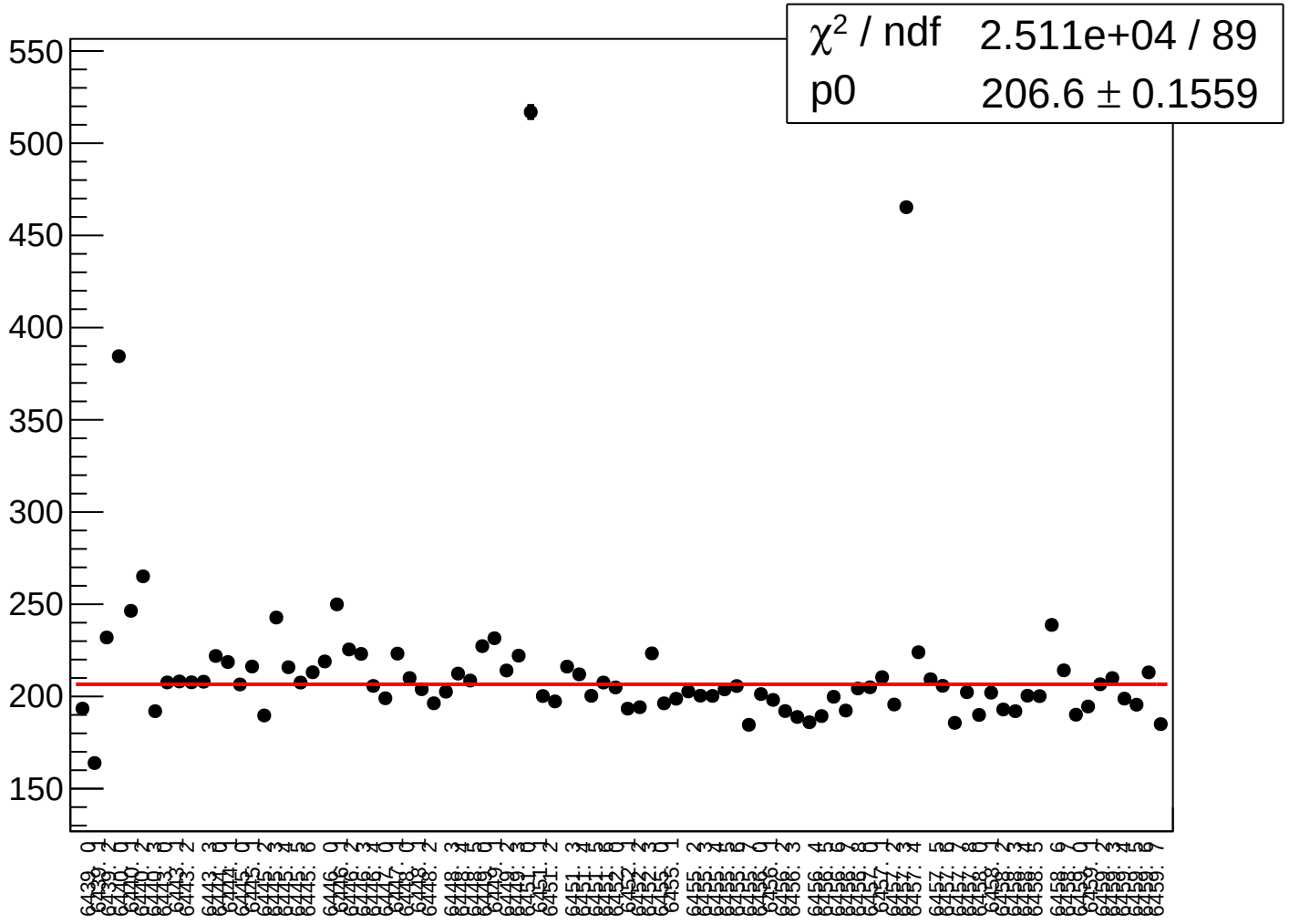

asym_bpm0i02aWS_rms vs run
χ² / ndf 3.443e+04 / 89
p0 187.9 ± 0.1422
500
450
400
350
300
250
200
150

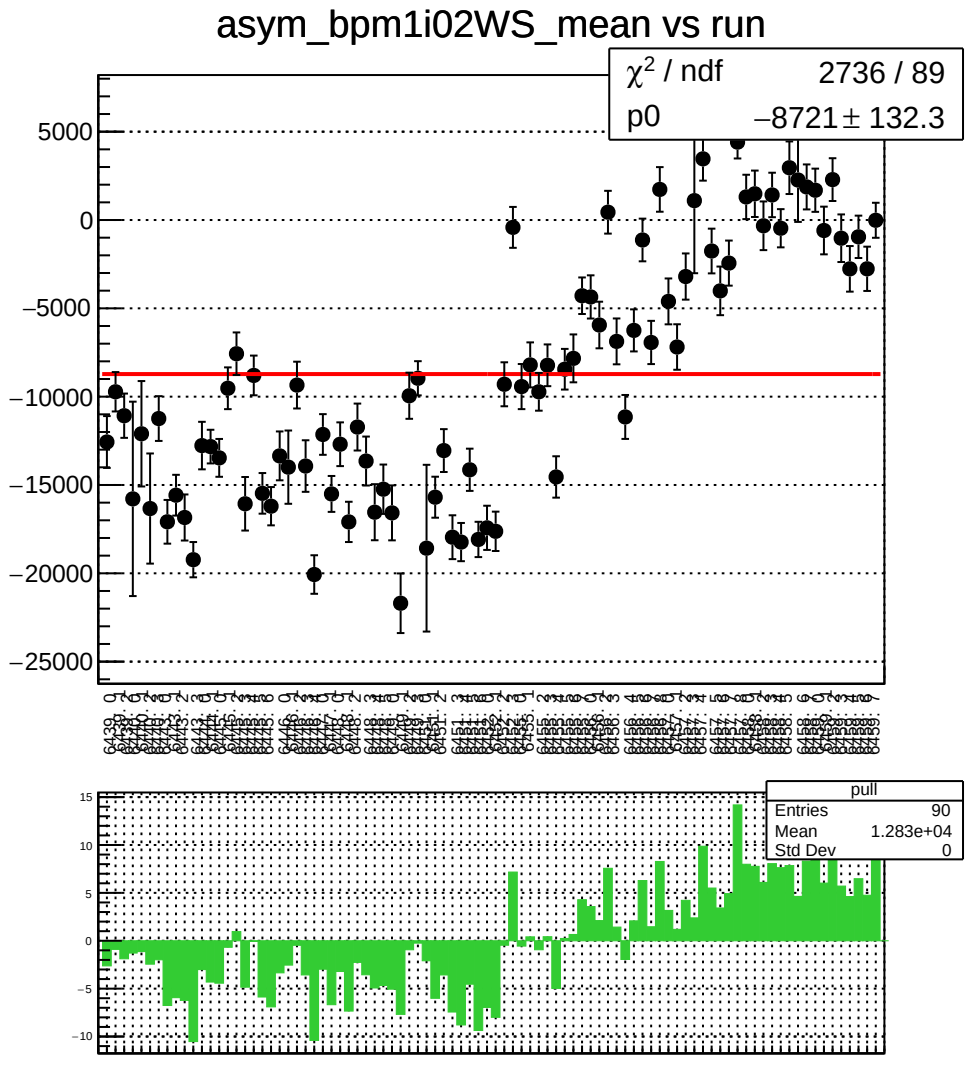

asym_bpm0i05WS_mean vs run
χ² / ndf 1889 / 89
p0 −1443 ± 193.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 90
Mean −2062
Std Dev 0
10
8
6
4
2
0
−2
−4
−6

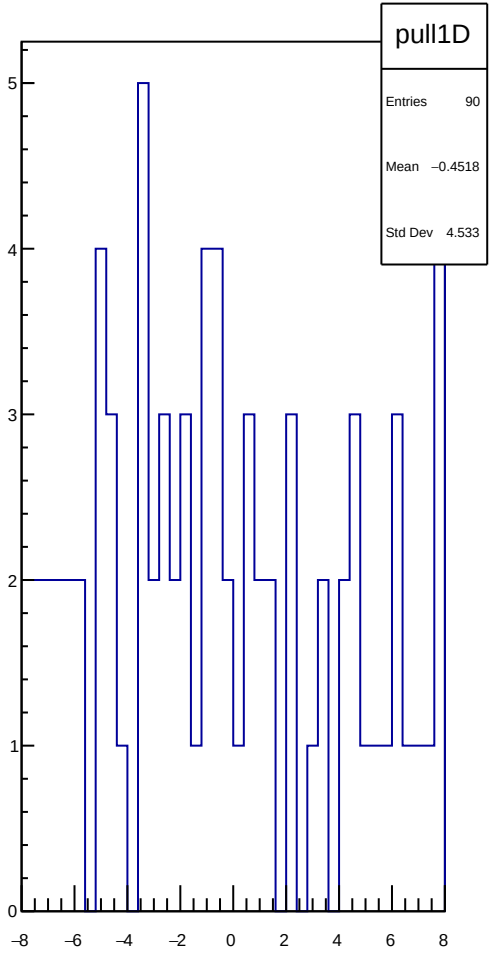

pull1D
Entries 90
Mean −0.7798
Std Dev 3.938
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

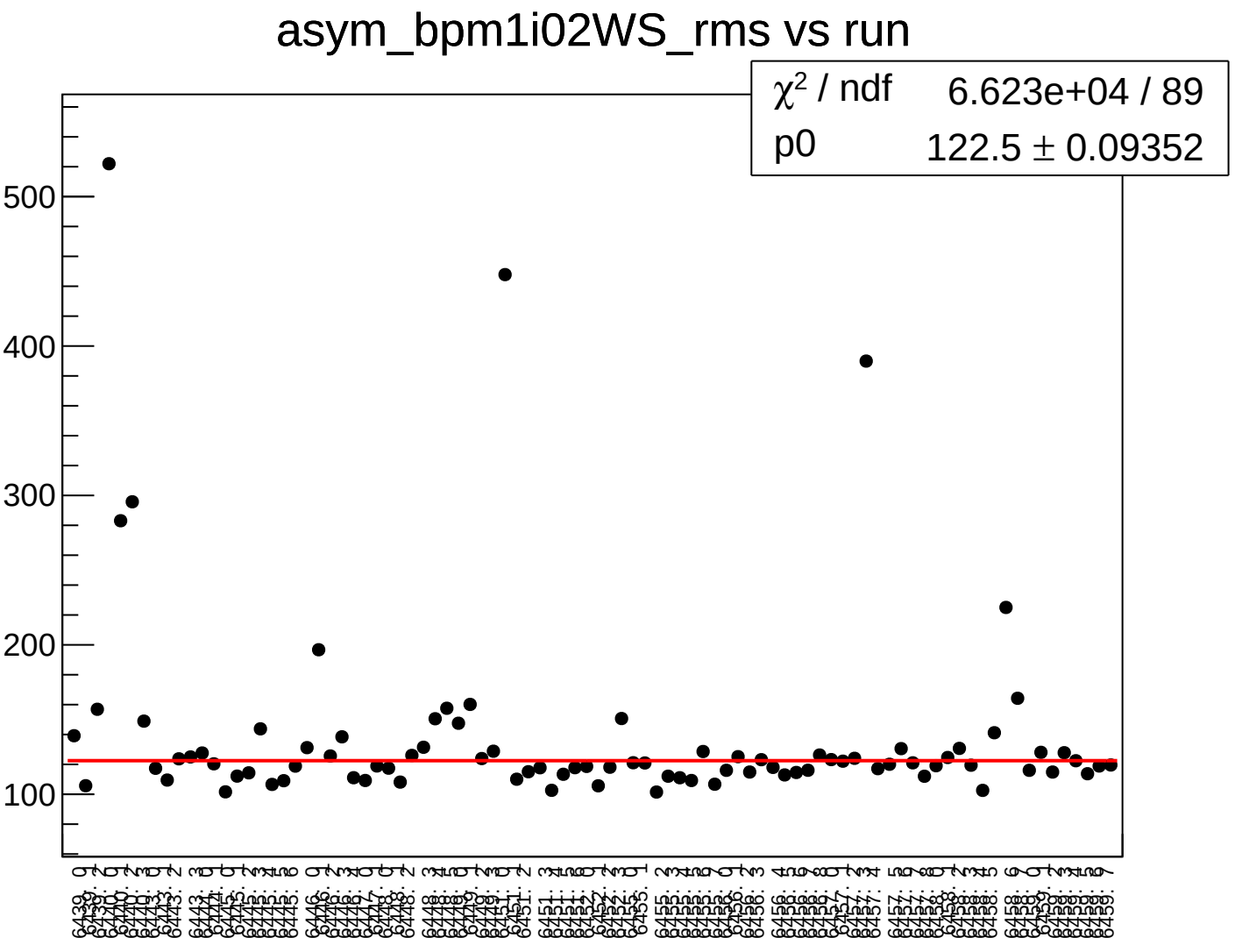

asym_bpm0i05WS_rms vs run
χ^2 / ndf 3.058e+04 / 89
p0 181.3 ± 0.137
600
500
400
300
200
100

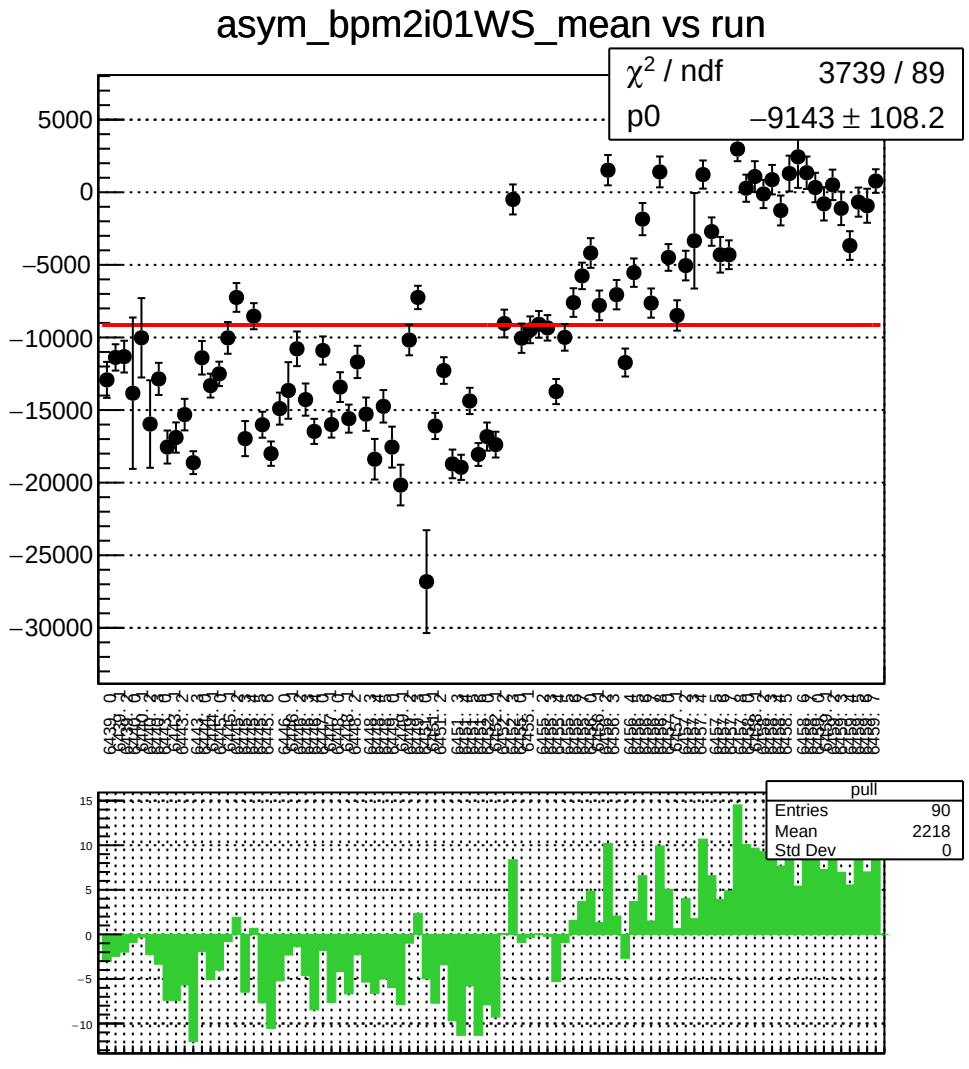

asym_bpm0i07WS_mean vs run
χ² / ndf 448.1 / 89
p0 −1558 ± 220.4
10000
5000
0
−5000
−10000
−15000
pull
Entries 90
Mean −1329
Std Dev 0
4
2
0
−2
−4
pull1D
Entries 90
Mean −0.02671
Std Dev 2.231
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

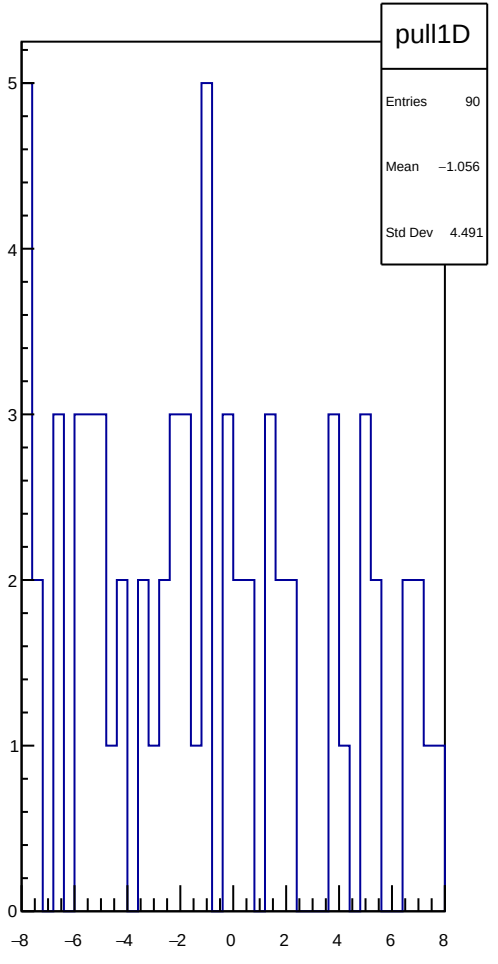

asym_bpm0i07WS_rms vs run
χ^2 / ndf 2.511e+04 / 89
p0 206.6 ± 0.1559
550
500
450
400
350
300
250
200
150

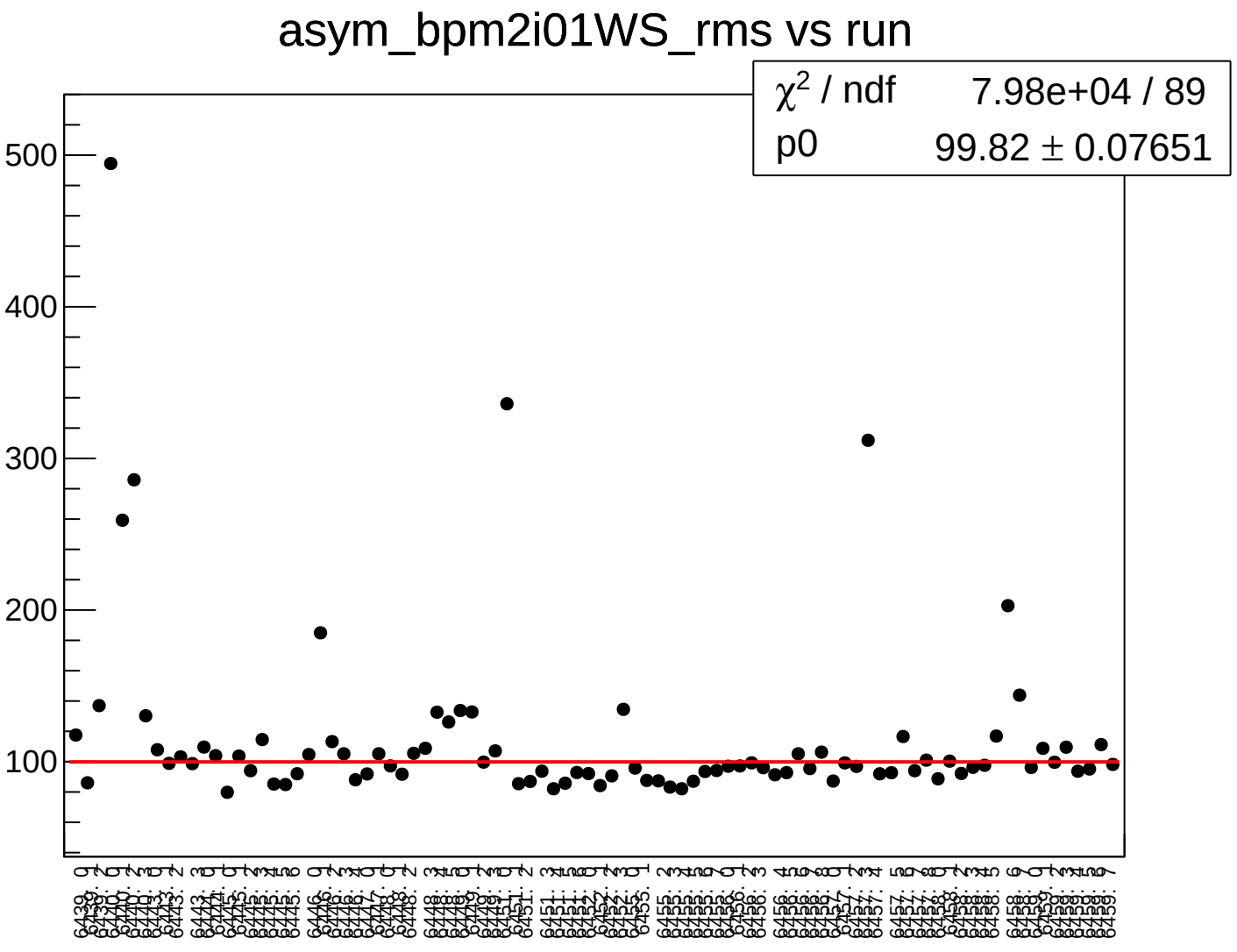

asym_bpm1i02WS_mean vs run
χ² / ndf 2736 / 89
p0 −8721 ± 132.3
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 90
Mean 1.283e+04
Std Dev 0
15
10
5
0
−5
−10

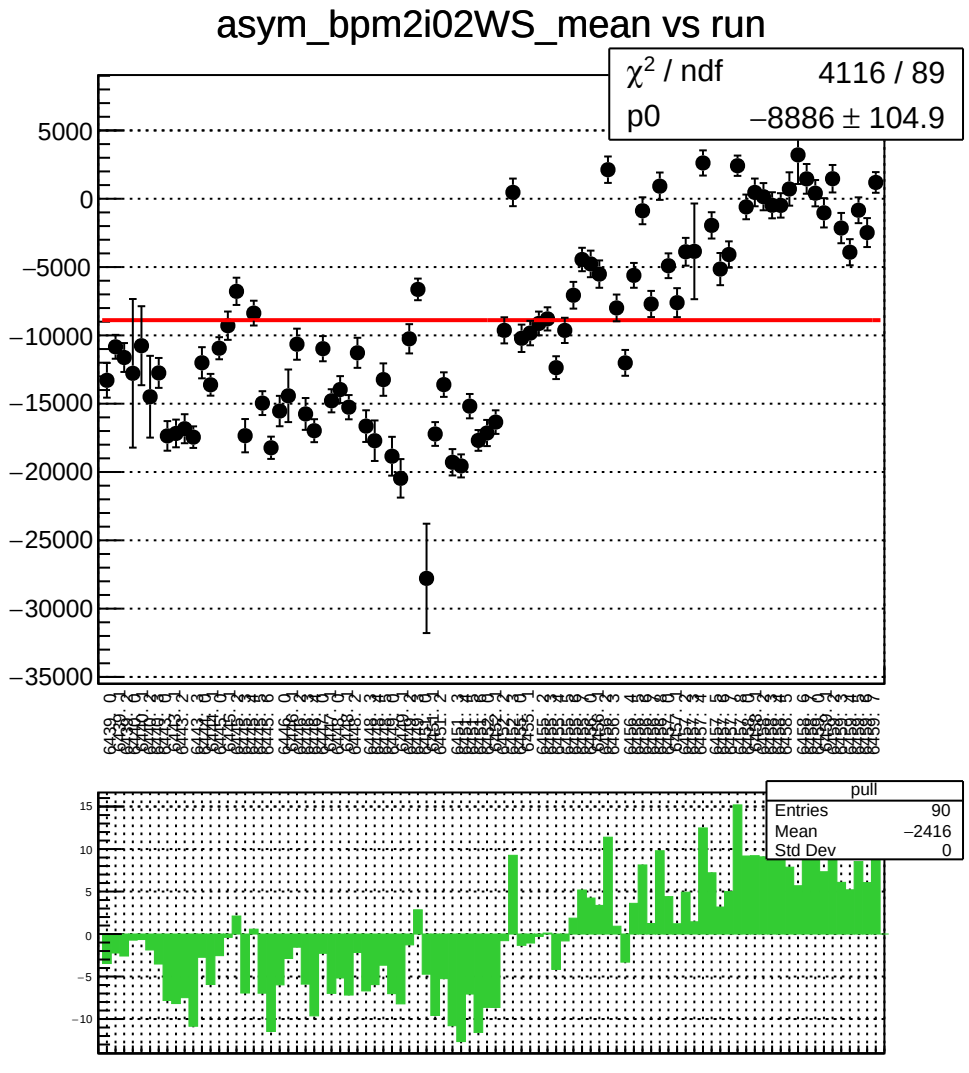

pull1D
Entries 90
Mean −0.4518
Std Dev 4.533
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

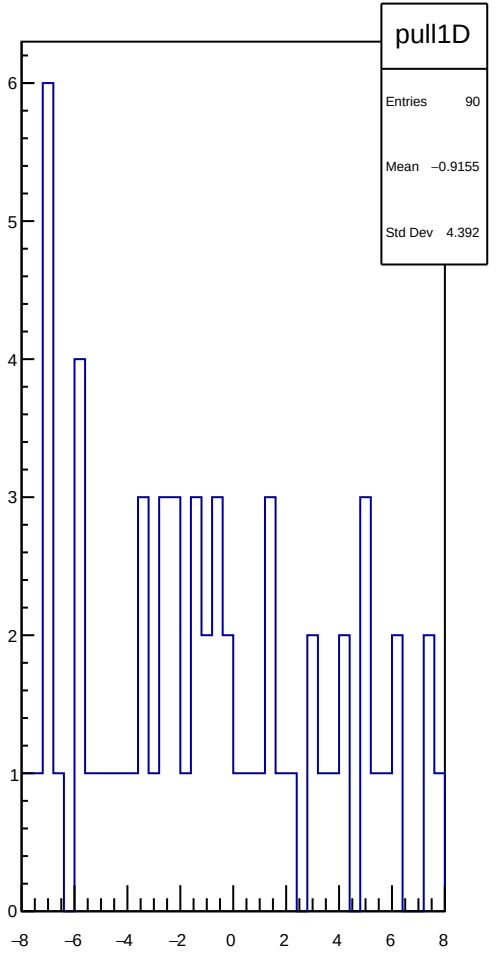

asym_bpm1i02WS_rms vs run
χ^2 / ndf 6.623e+04 / 89
p0 122.5 ± 0.09352
500
400
300
200
100

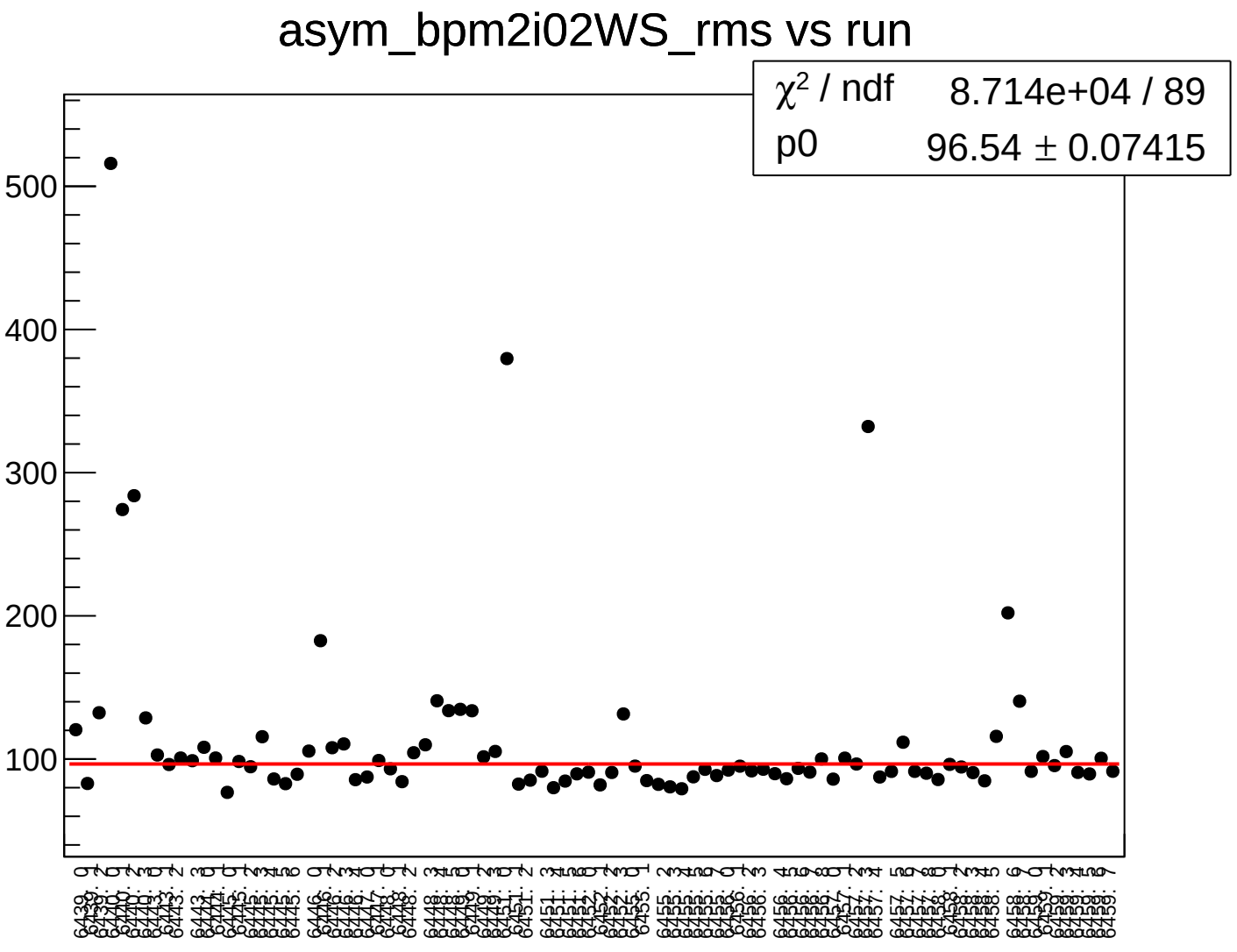

asym_bpm2i01WS_mean vs run
χ² / ndf 3739 / 89
p0 −9143 ± 108.2
5000
0
−5000
−10000
−15000
−20000
−25000
−30000
pull
Entries 90
Mean 2218
Std Dev 0
15
10
5
0
−5
−10

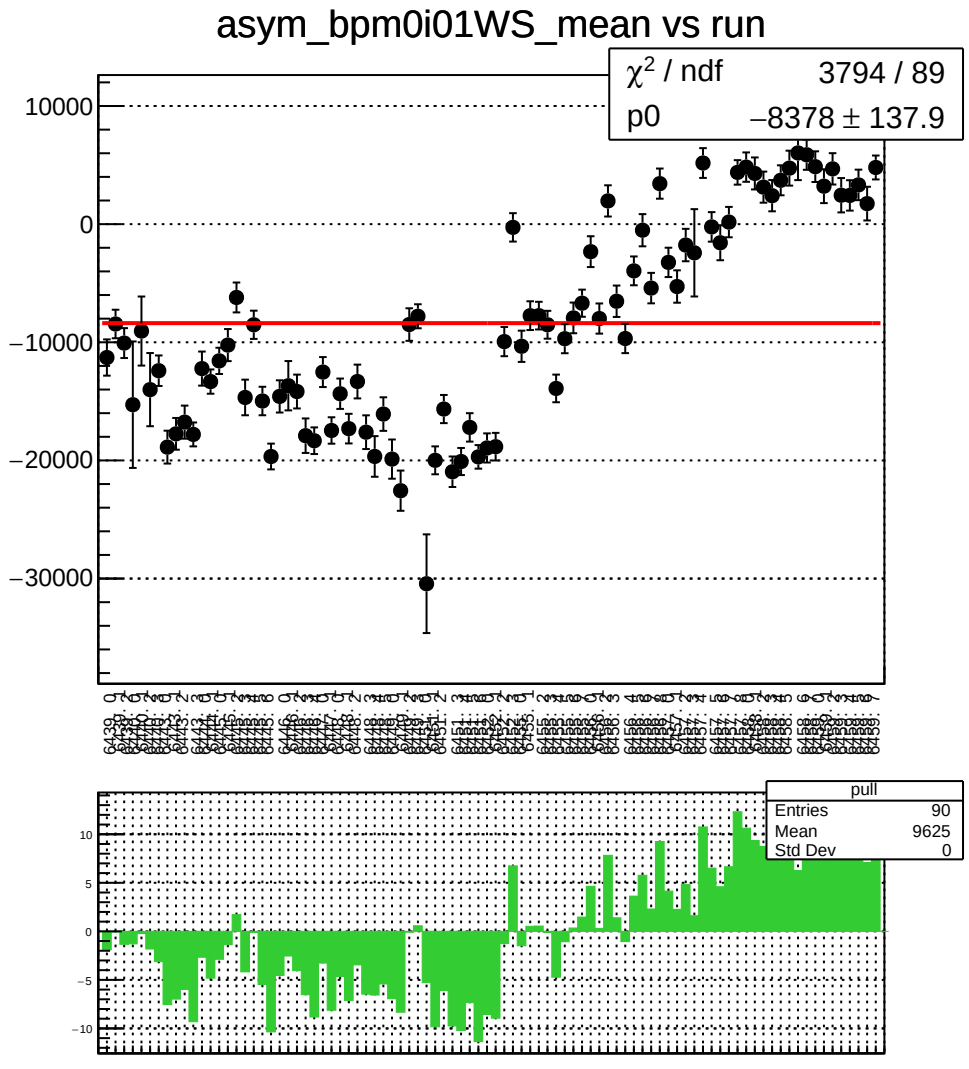

pull1D
Entries 90
Mean −1.056
Std Dev 4.491
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

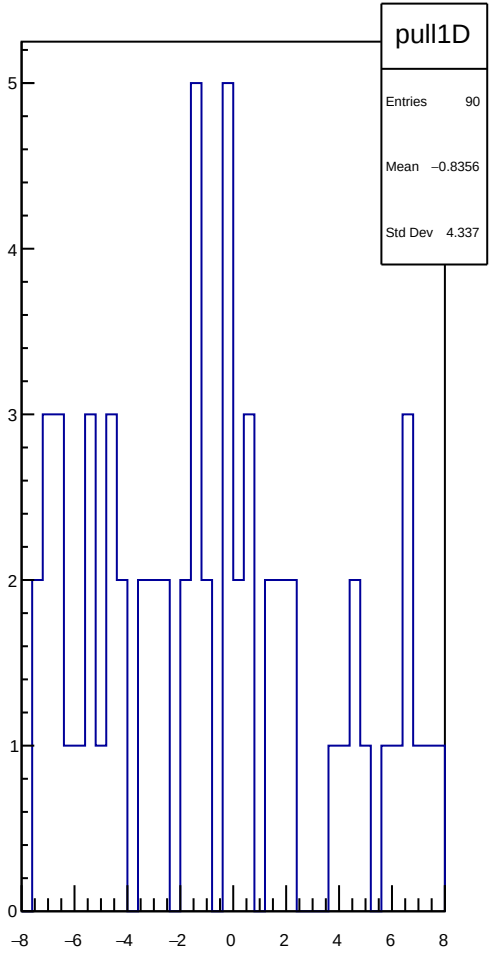

asym_bpm2i01WS_rms vs run
χ^2 / ndf 7.98e+04 / 89
p0 99.82 ± 0.07651
500
400
300
200
100

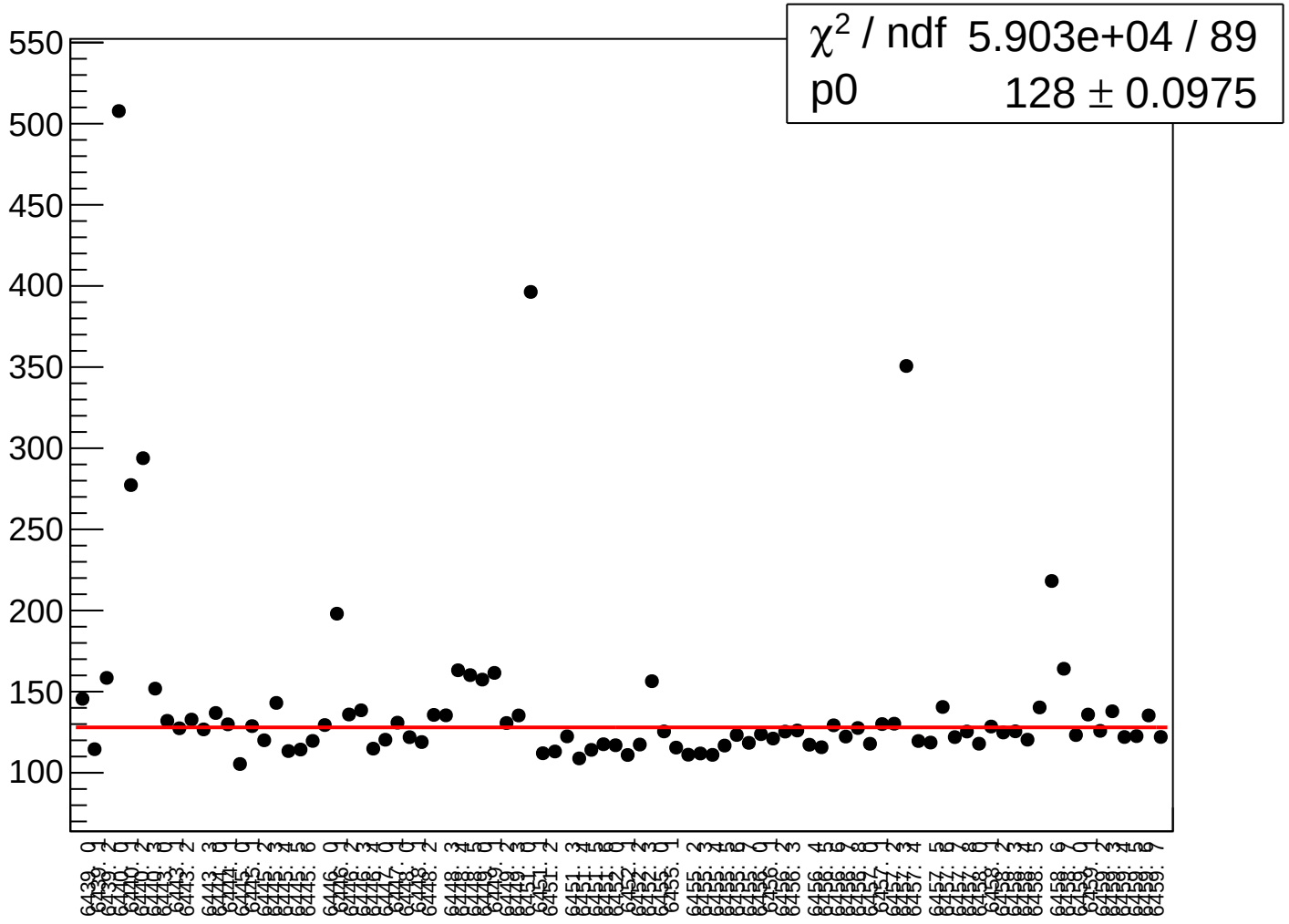

asym_bpm2i02WS_mean vs run
χ² / ndf 4116 / 89
p0 −8886 ± 104.9
5000
0
−5000
−10000
−15000
−20000
−25000
−30000
−35000
pull
Entries 90
Mean −2416
Std Dev 0
15
10
5
0
−5
−10

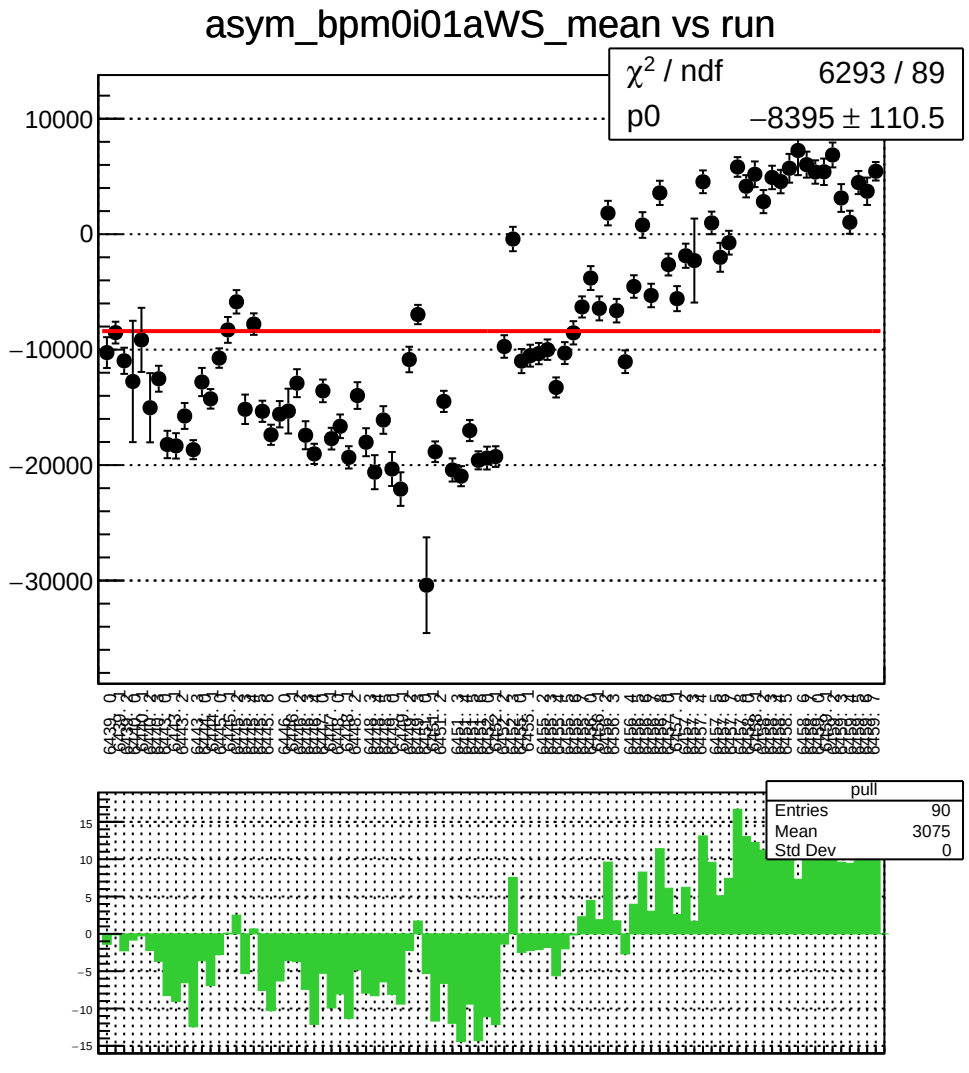

pull1D
Entries 90
Mean −0.9155
Std Dev 4.392
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

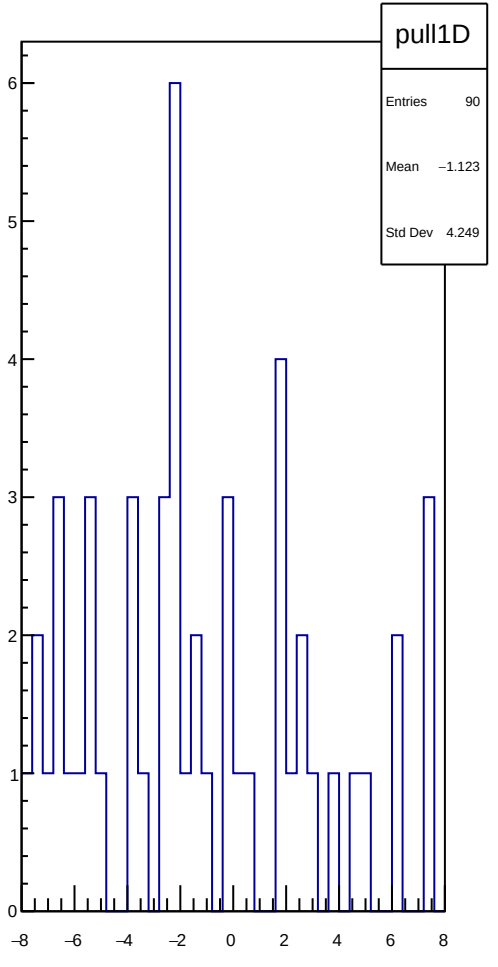

asym_bpm2i02WS_rms vs run
χ² / ndf 8.714e+04 / 89
p0 96.54 ± 0.07415
500
400
300
200
100

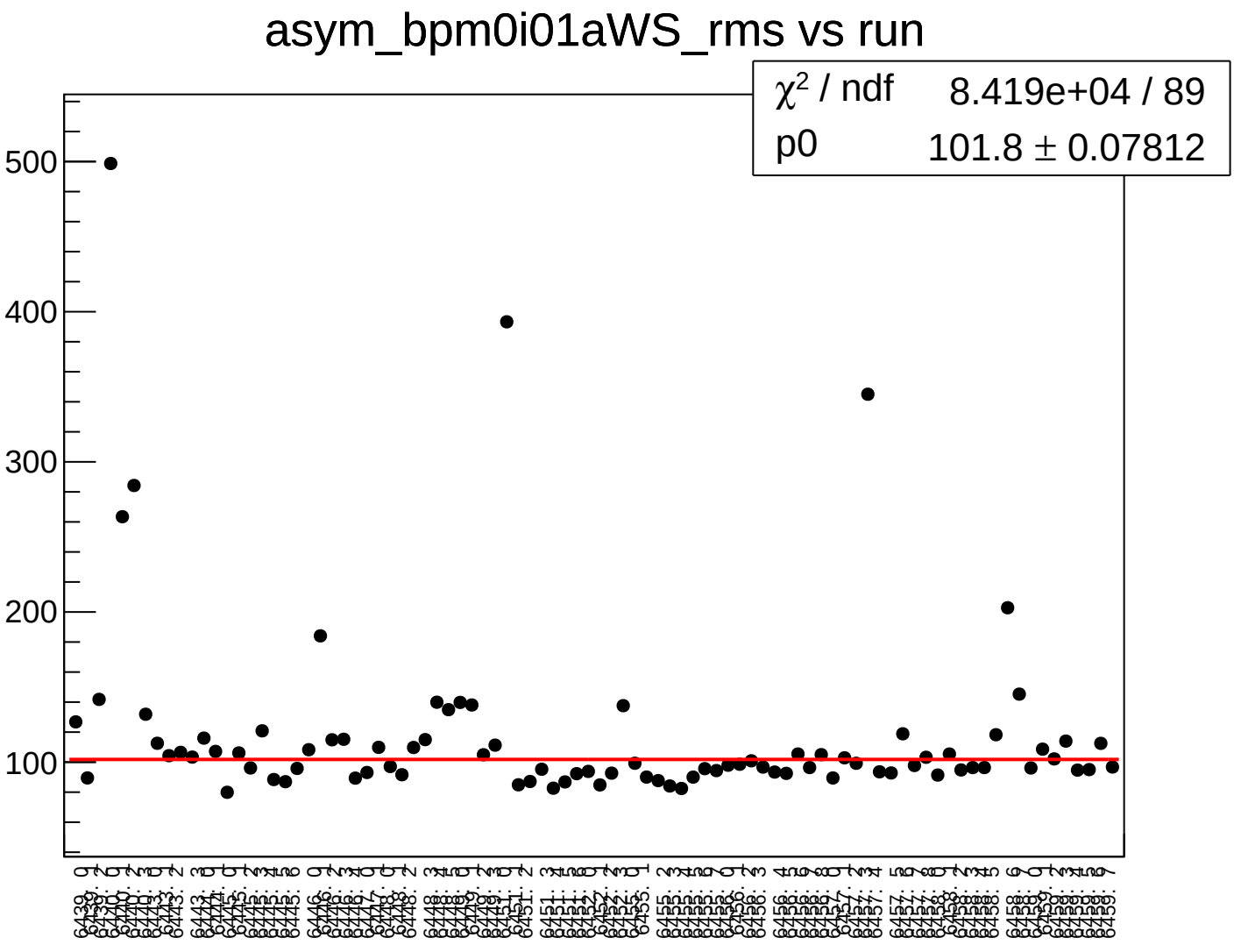

asym_bpm0i01WS_mean vs run
χ² / ndf 3794 / 89
p0 −8378 ± 137.9
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean 9625
Std Dev 0
10
5
0
−5
−10

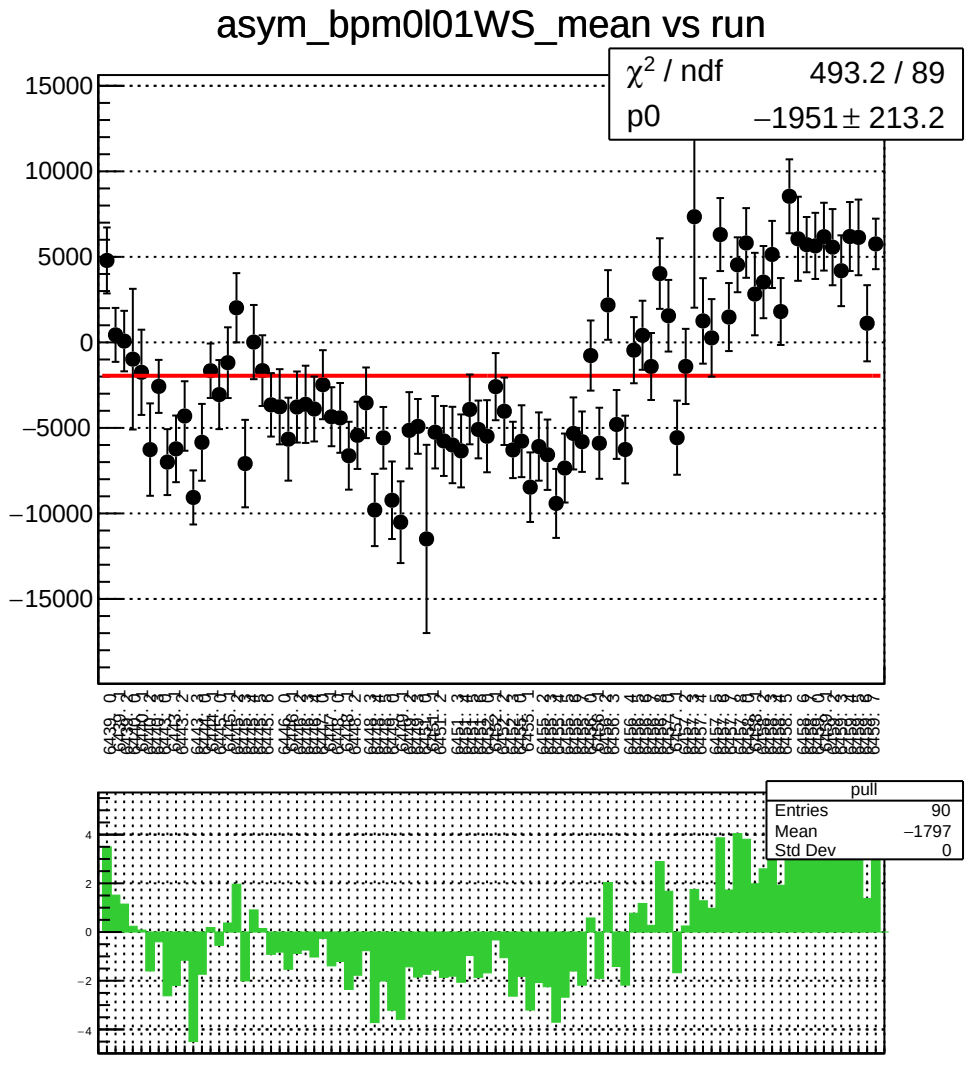

pull1D
Entries 90
Mean −0.8356
Std Dev 4.337
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

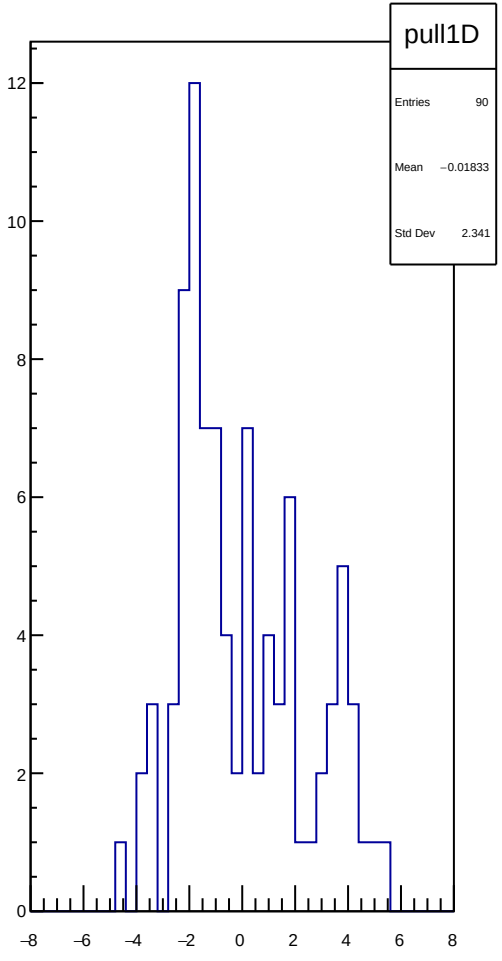

asym_bpm0i01WS_rms vs run
χ^2 / ndf 5.903e+04 / 89
p0 128 ± 0.0975
550
500
450
400
350
300
250
200
150
100

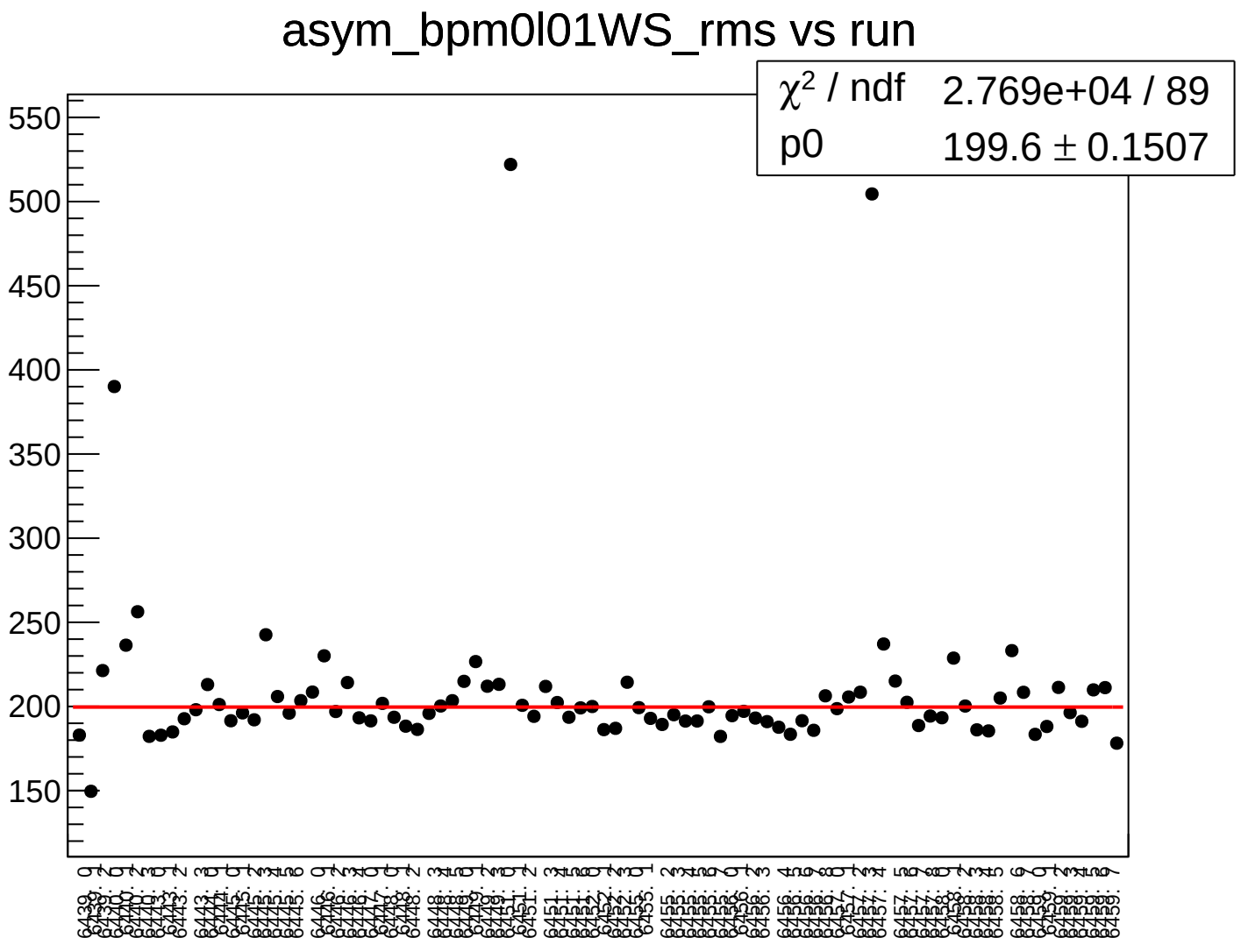

asym_bpm0i01aWS_mean vs run
χ² / ndf 6293 / 89
p0 −8395 ± 110.5
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean 3075
Std Dev 0
15
10
5
0
−5
−10
−15

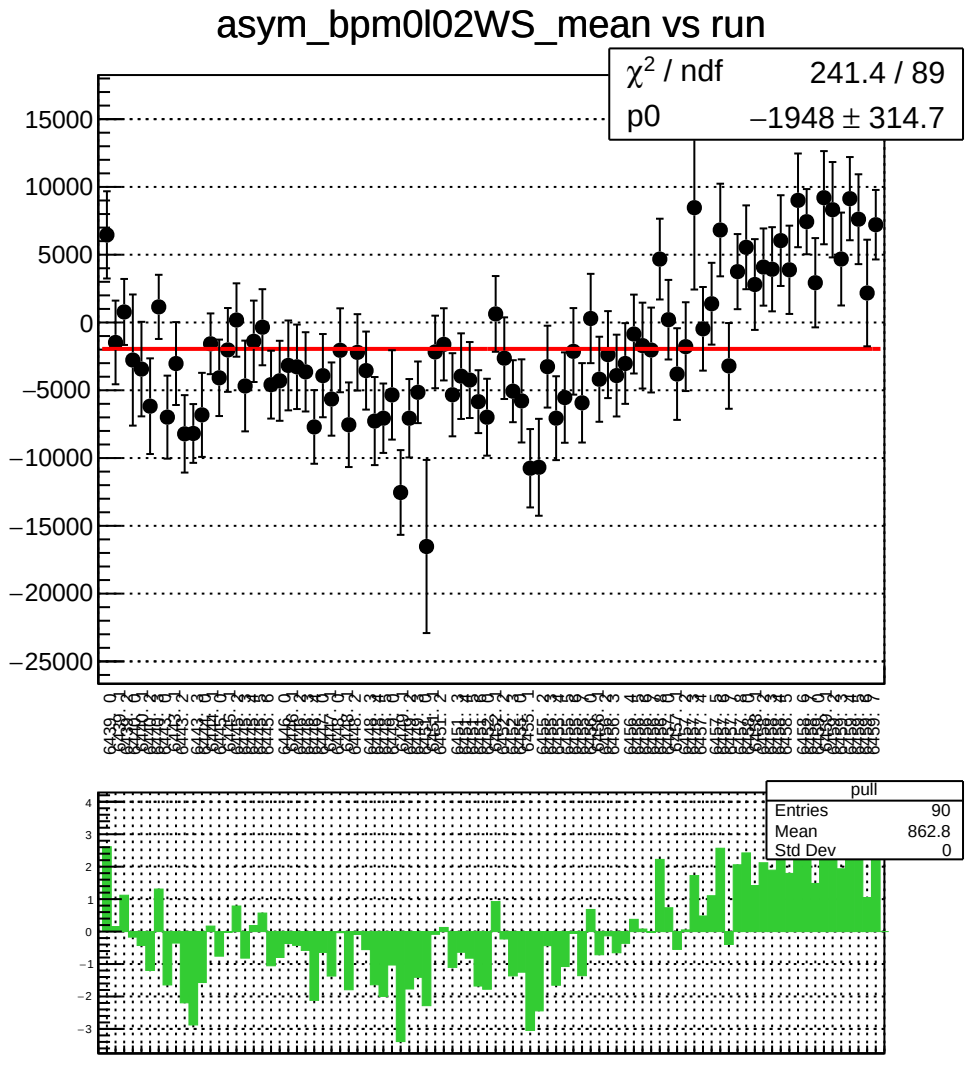

pull1D
Entries 90
Mean −1.123
Std Dev 4.249
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

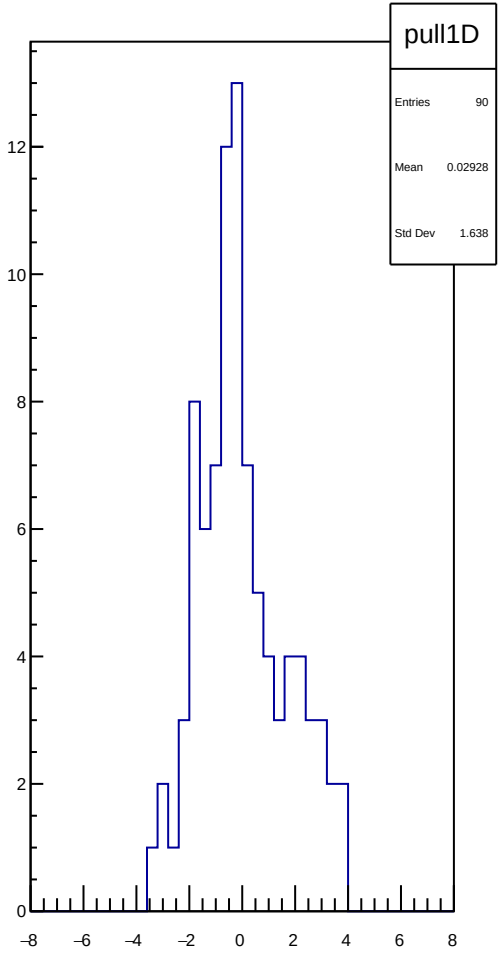

asym_bpm0i01aWS_rms vs run
χ^2 / ndf 8.419e+04 / 89
p0 101.8 ± 0.07812
500
400
300
200
100

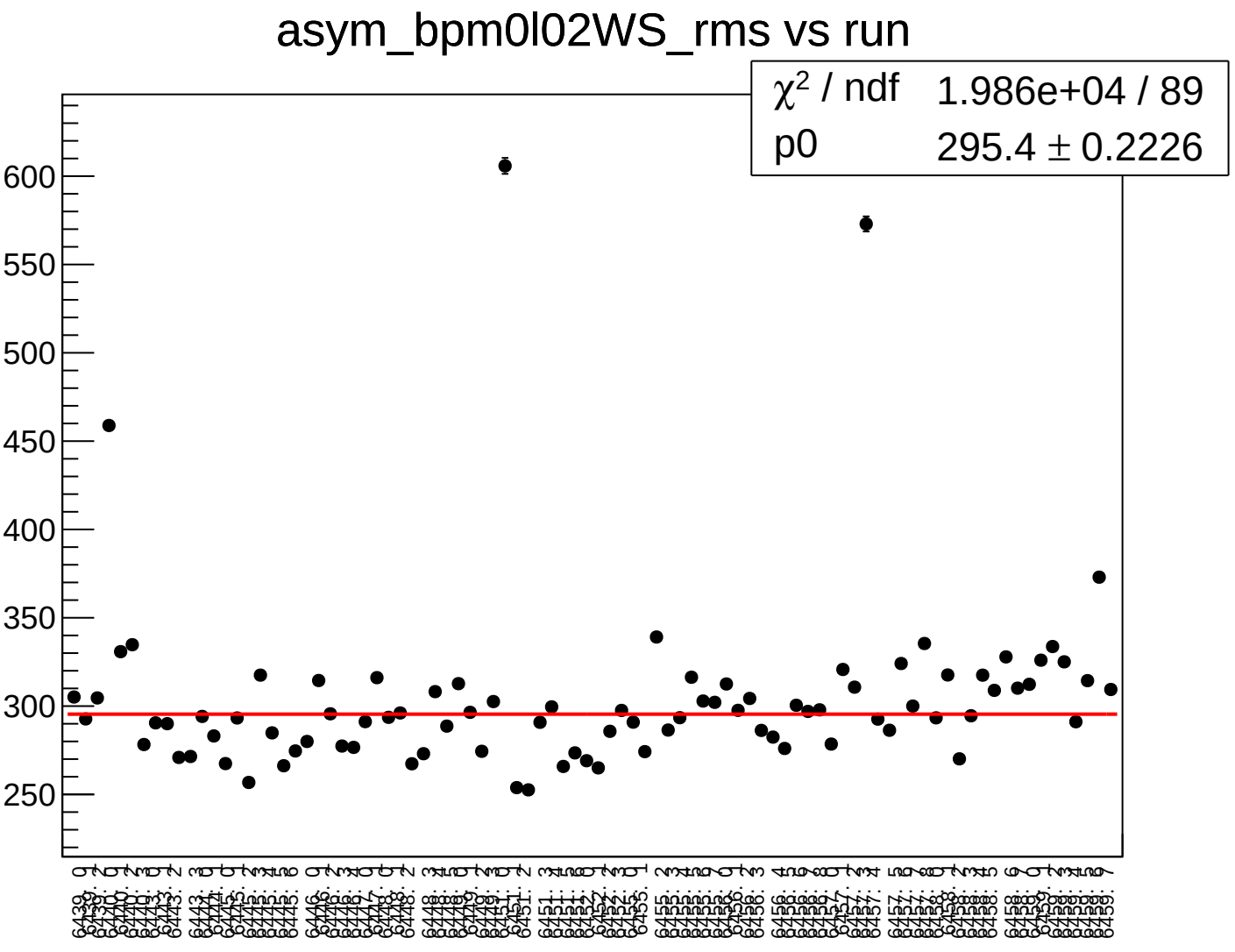

asym_bpm0l01WS_mean vs run
χ² / ndf 493.2 / 89
p0 −1951 ± 213.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 90
Mean −1797
Std Dev 0
4
2
0
−2
−4

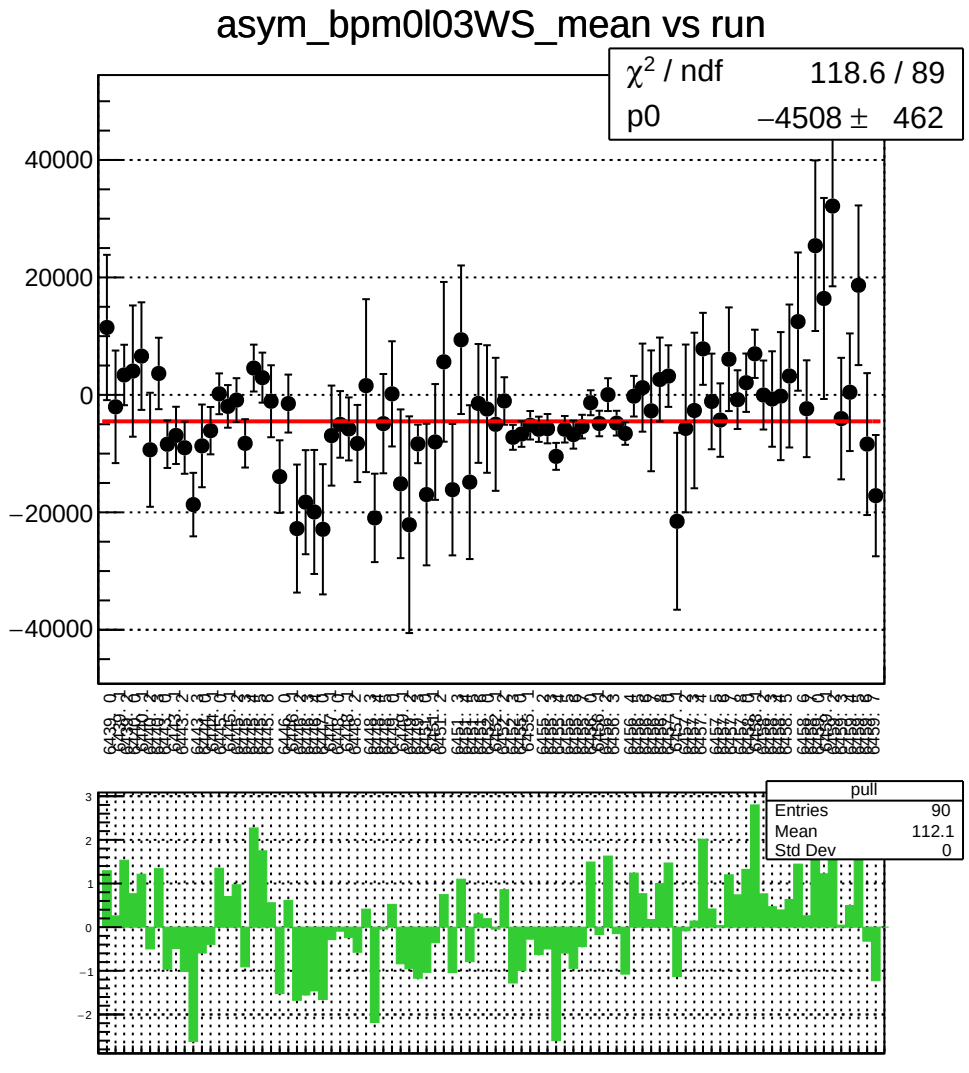

pull1D
Entries 90
Mean −0.01833
Std Dev 2.341
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

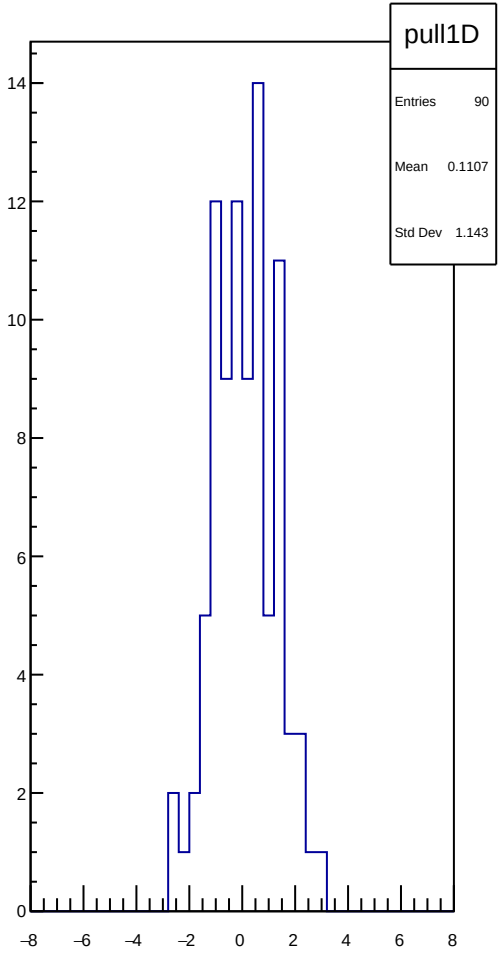

asym_bpm0l01WS_rms vs run
χ^2 / ndf 2.769e+04 / 89
p0 199.6 ± 0.1507
550
500
450
400
350
300
250
200
150

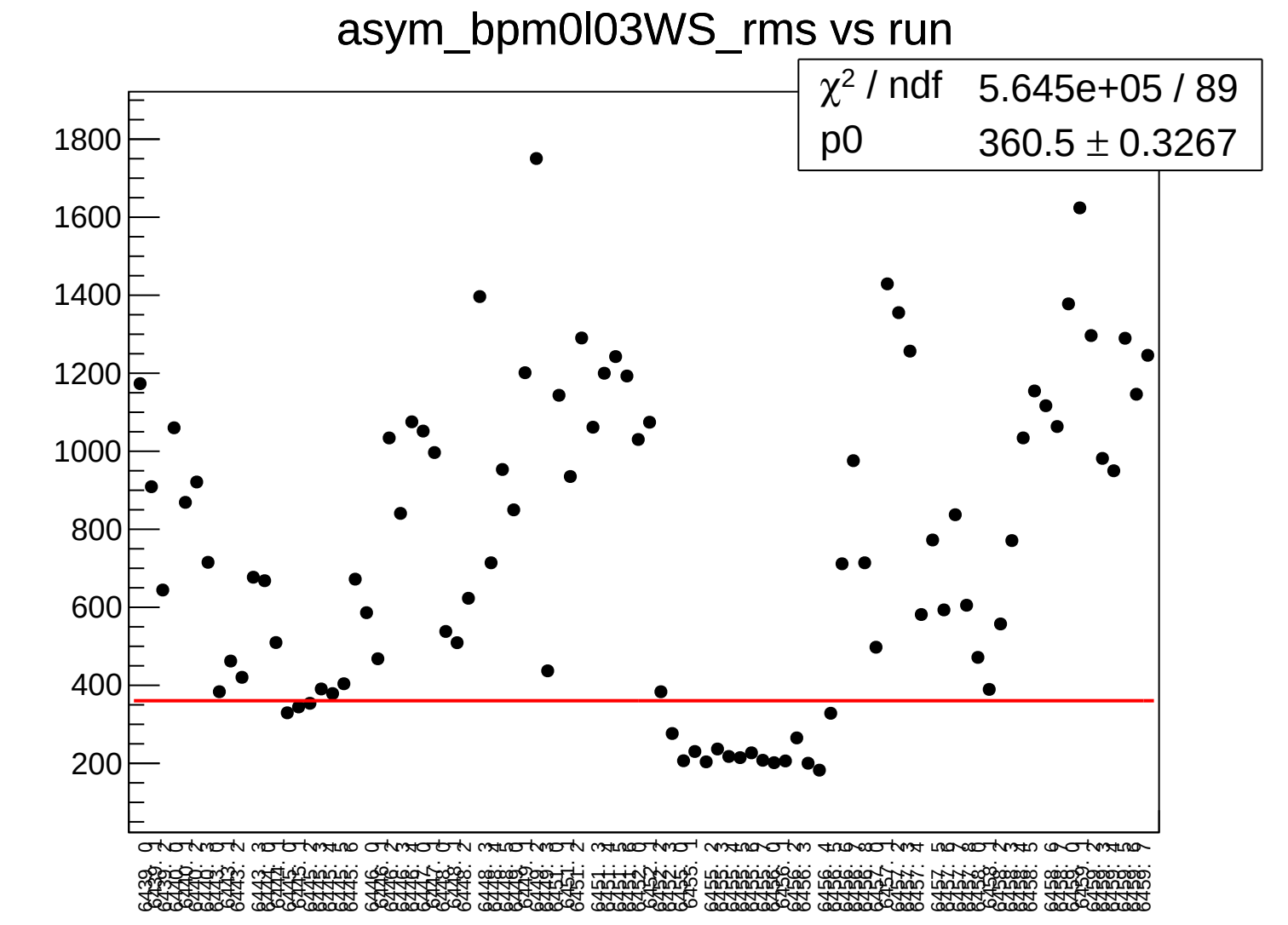

asym_bpm0l02WS_mean vs run
χ² / ndf 241.4 / 89
p0 −1948 ± 314.7
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 90
Mean 862.8
Std Dev 0
4
3
2
1
0
−1
−2
−3

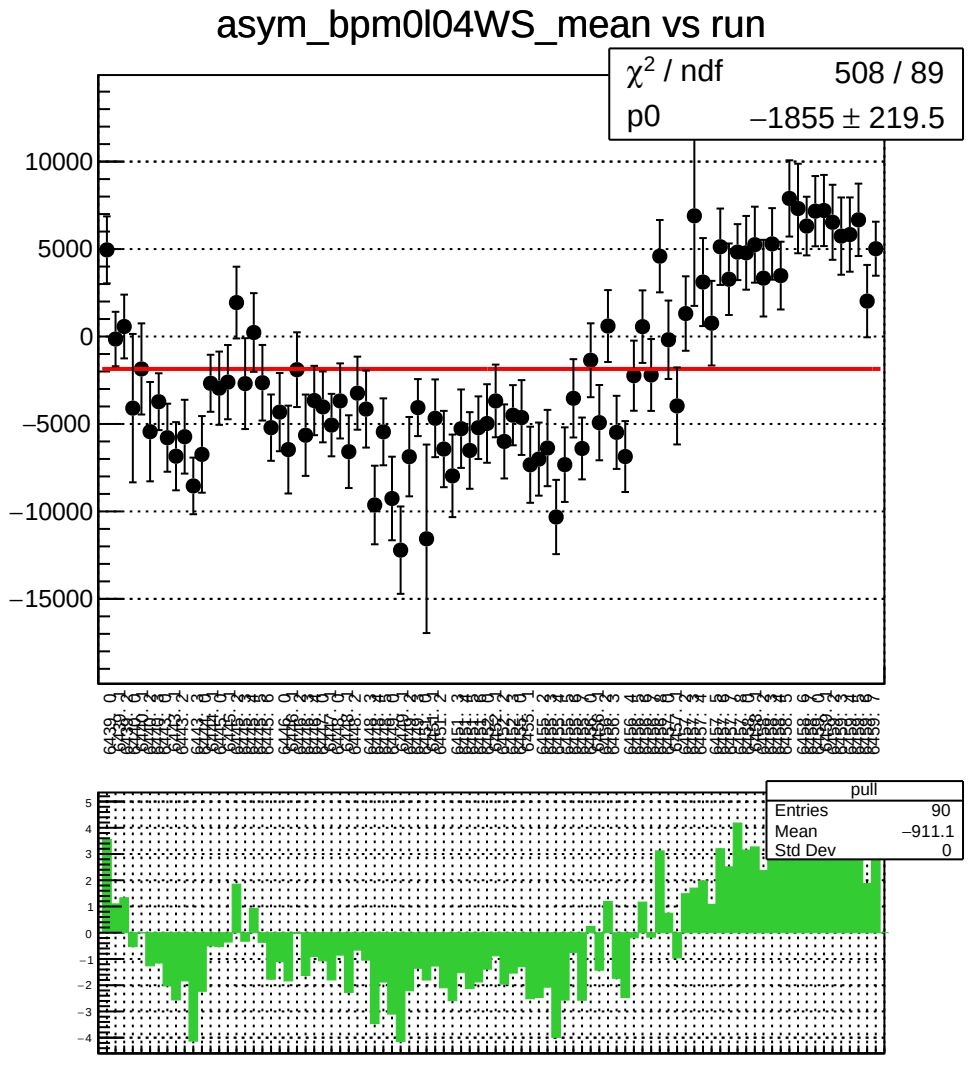

pull1D
Entries 90
Mean 0.02928
Std Dev 1.638
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

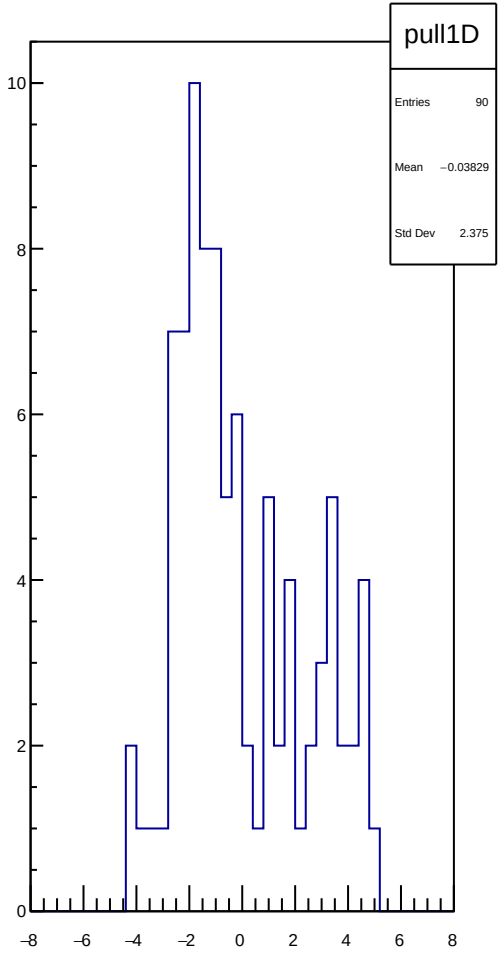

asym_bpm0l02WS_rms vs run
χ^2 / ndf 1.986e+04 / 89
p0 295.4 ± 0.2226
600
550
500
450
400
350
300
250

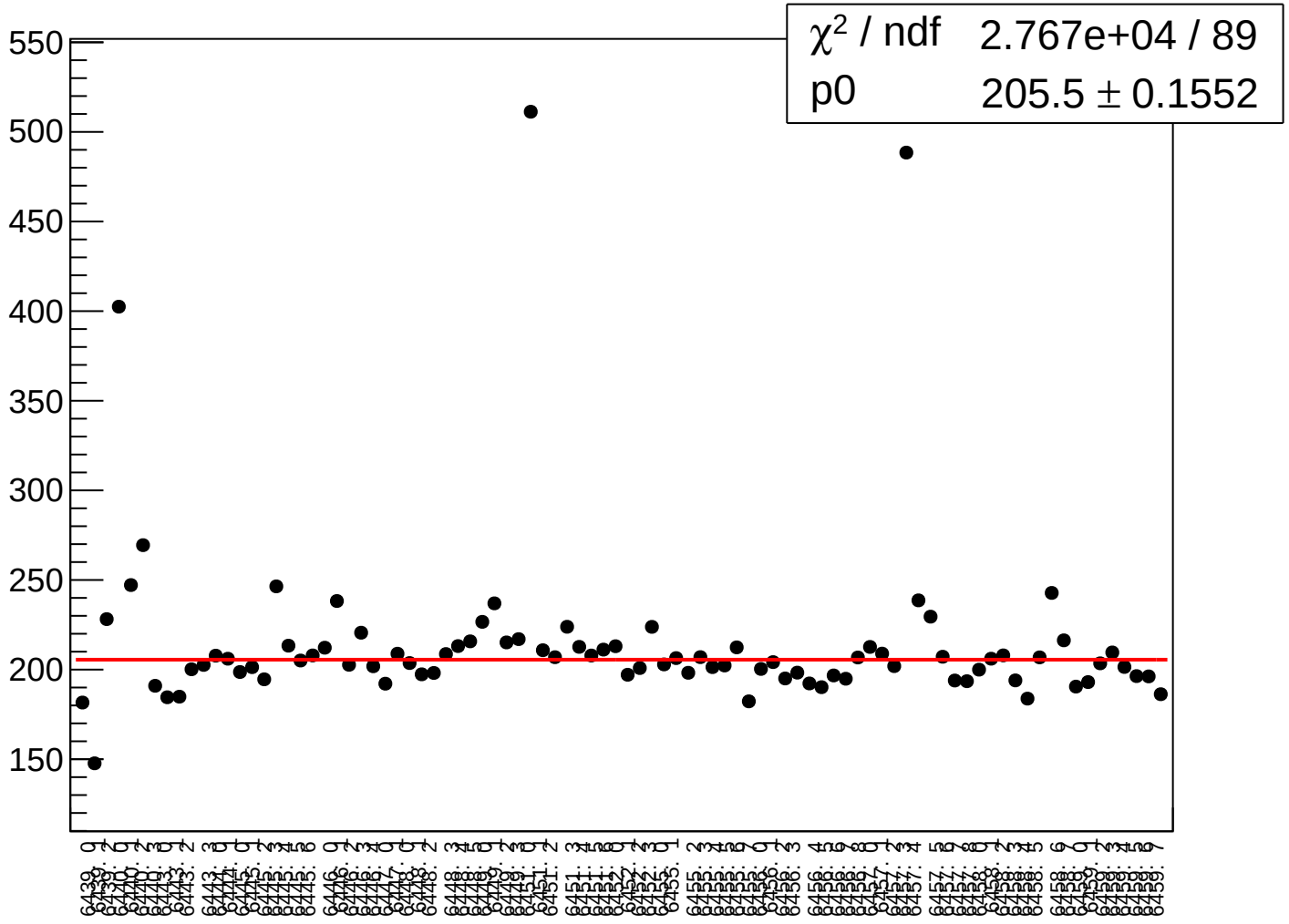

asym_bpm0l03WS_mean vs run
χ² / ndf 118.6 / 89
p0 −4508 ± 462
40000
20000
0
−20000
−40000
pull
Entries 90
Mean 112.1
Std Dev 0
3
2
1
0
−1
−2

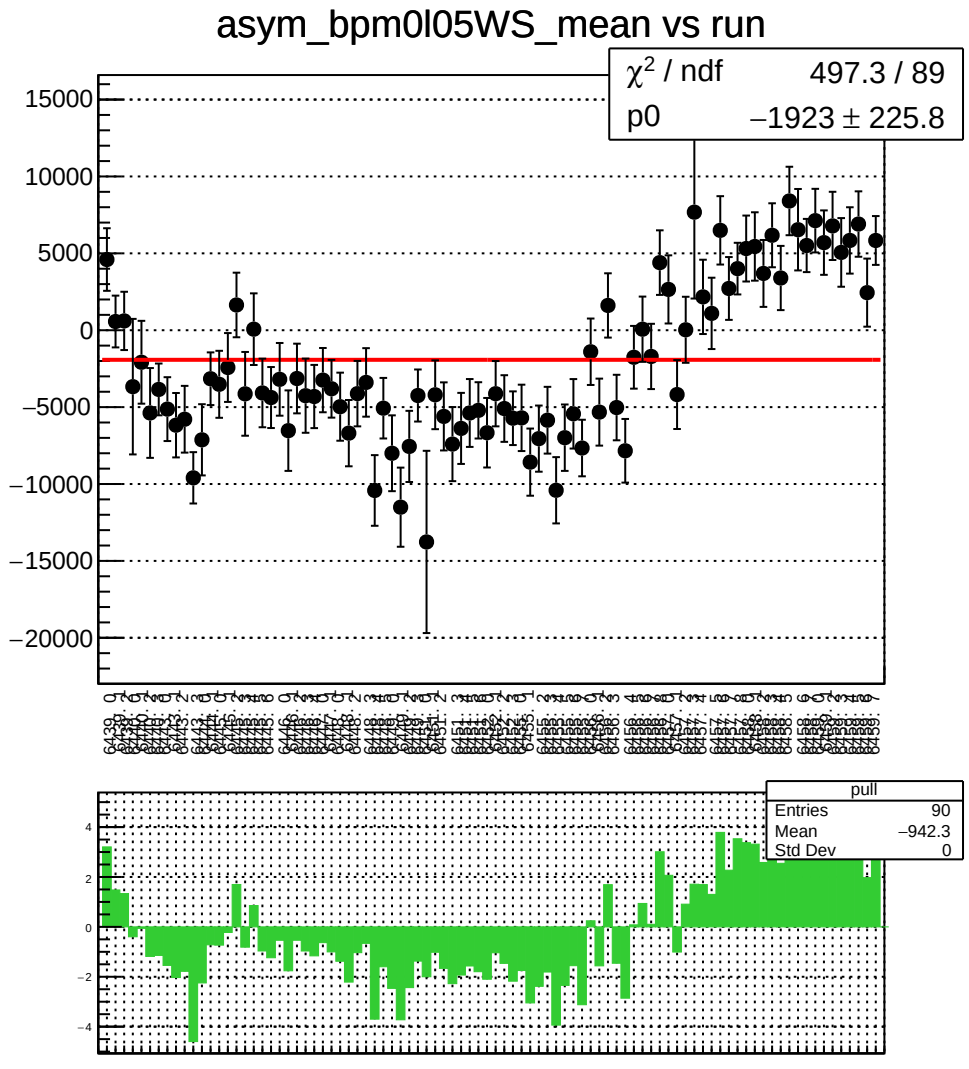

pull1D
Entries 90
Mean 0.1107
Std Dev 1.143
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

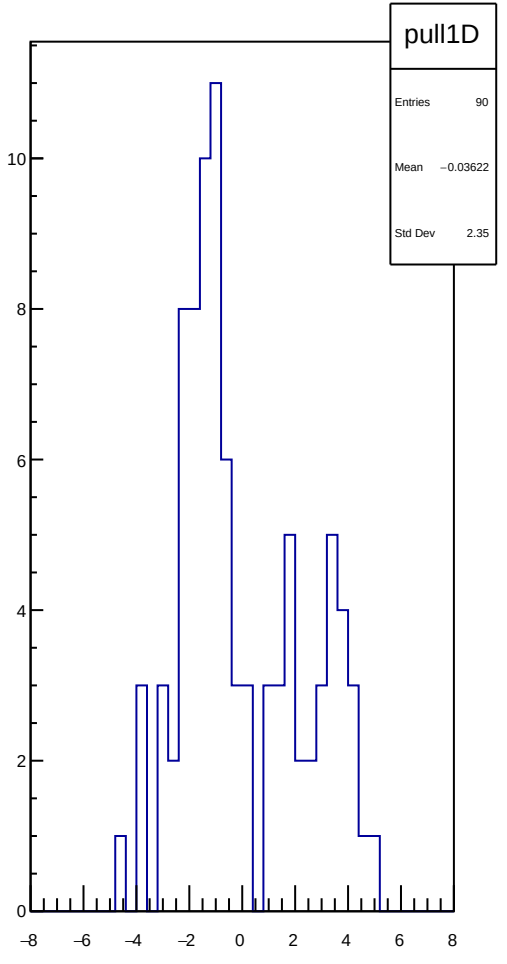

asym_bpm0l03WS_rms vs run
χ² / ndf 5.645e+05 / 89
p0 360.5 ± 0.3267
1800
1600
1400
1200
1000
800
600
400
200

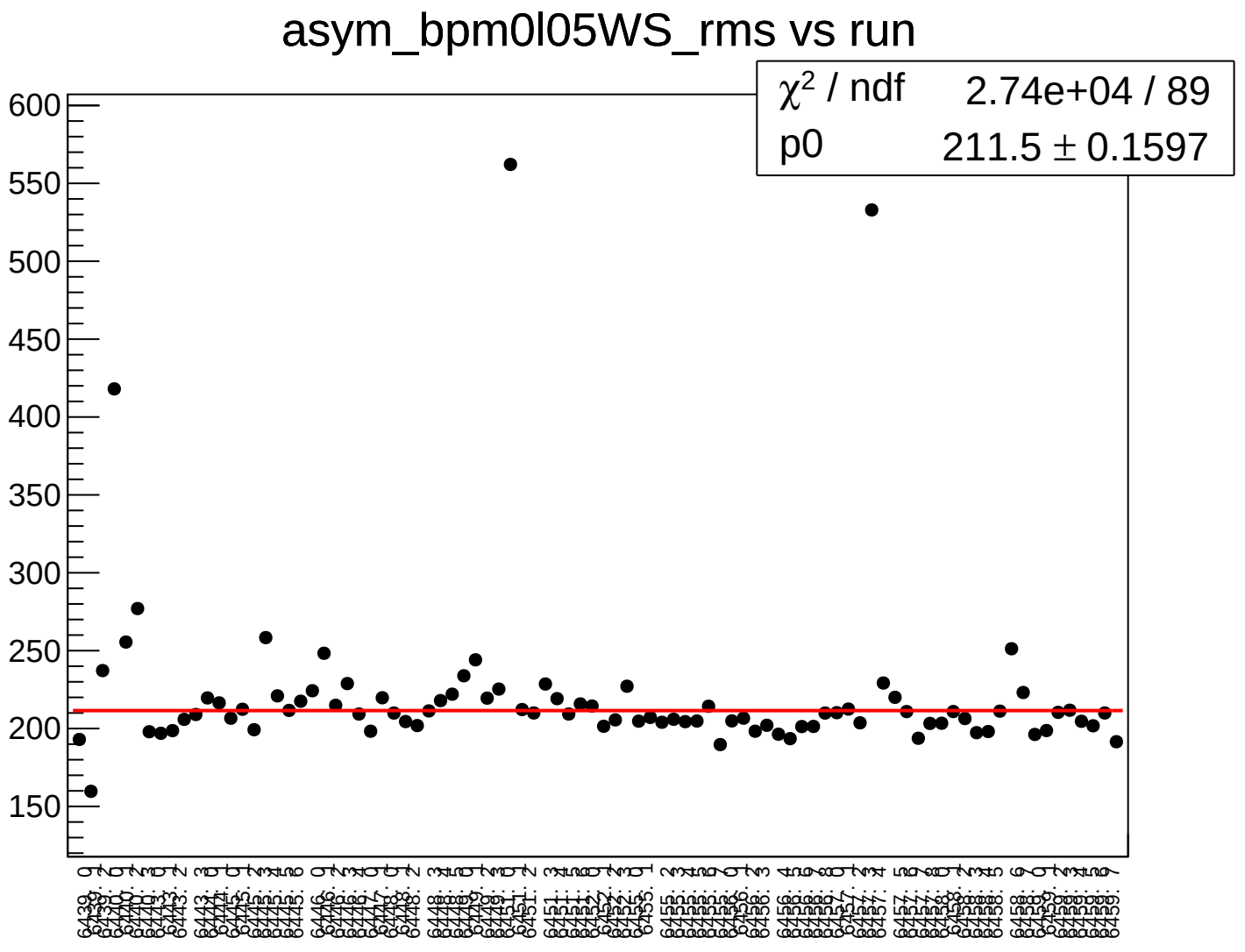

asym_bpm0l04WS_mean vs run
χ² / ndf 508 / 89
p0 −1855 ± 219.5
10000
5000
0
−5000
−10000
−15000
pull
Entries 90
Mean −911.1
Std Dev 0
5
4
3
2
1
0
−1
−2
−3
−4

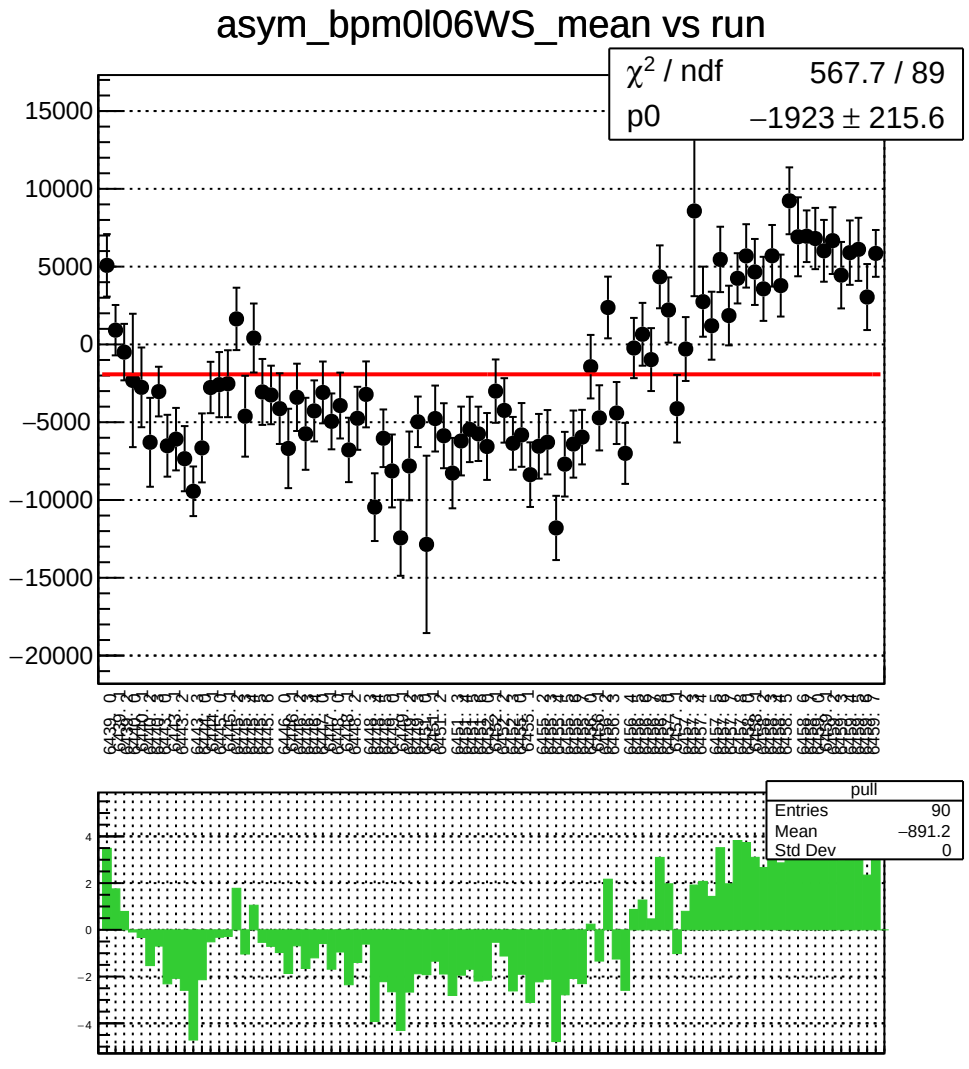

pull1D
Entries 90
Mean −0.03829
Std Dev 2.375
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

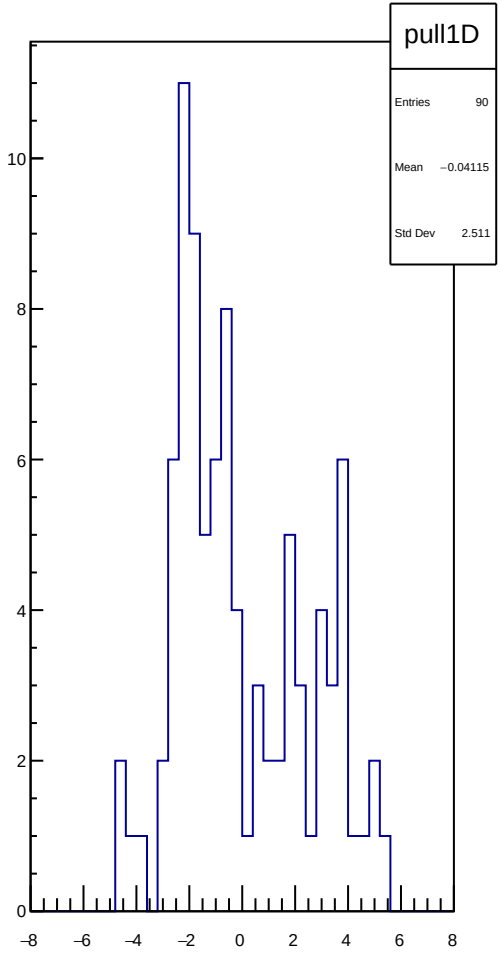

asym_bpm0l04WS_rms vs run
χ² / ndf 2.767e+04 / 89
p0 205.5 ± 0.1552
550
500
450
400
350
300
250
200
150

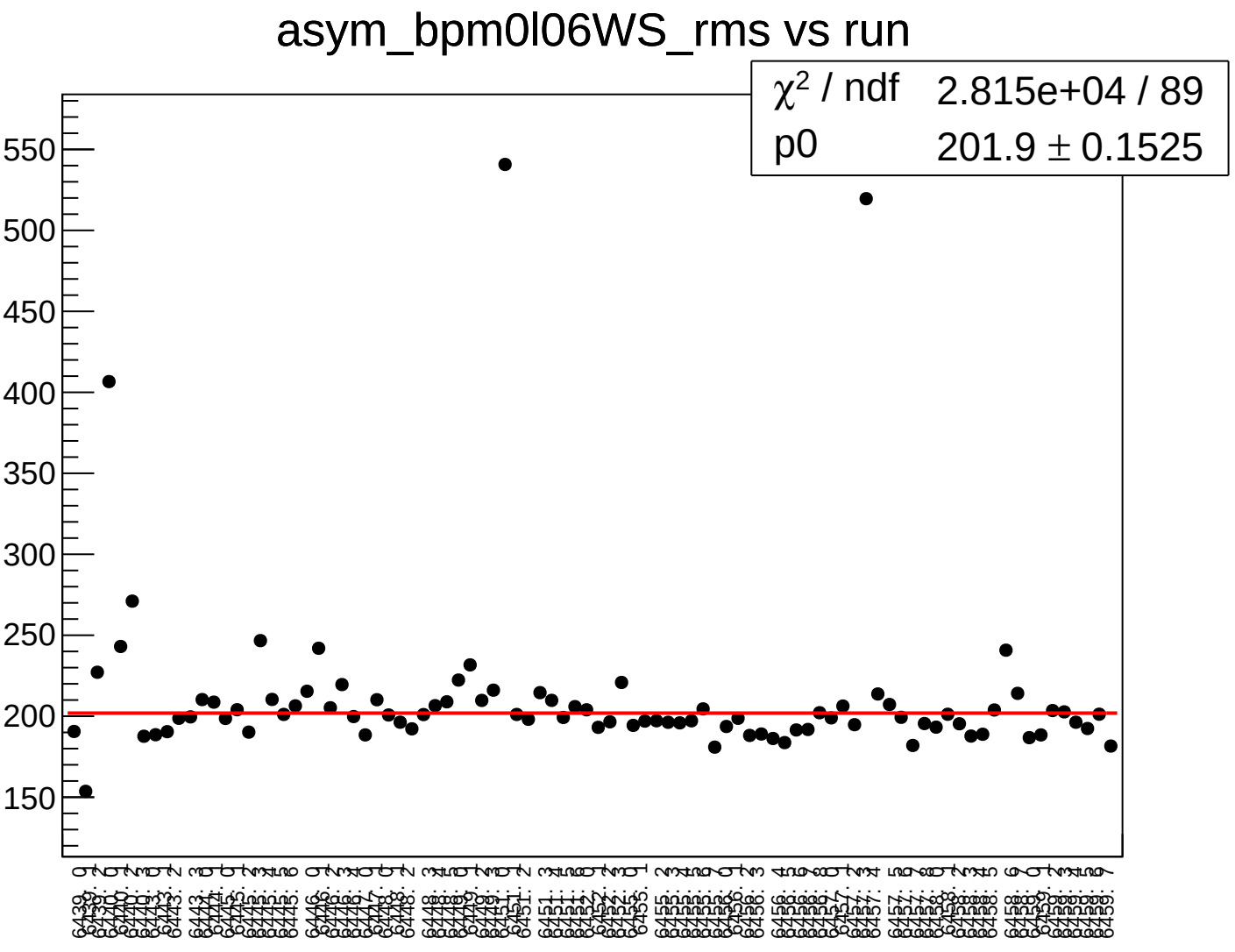

asym_bpm0l05WS_mean vs run
χ² / ndf 497.3 / 89
p0 −1923 ± 225.8
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 90
Mean −942.3
Std Dev 0
4
2
0
−2
−4

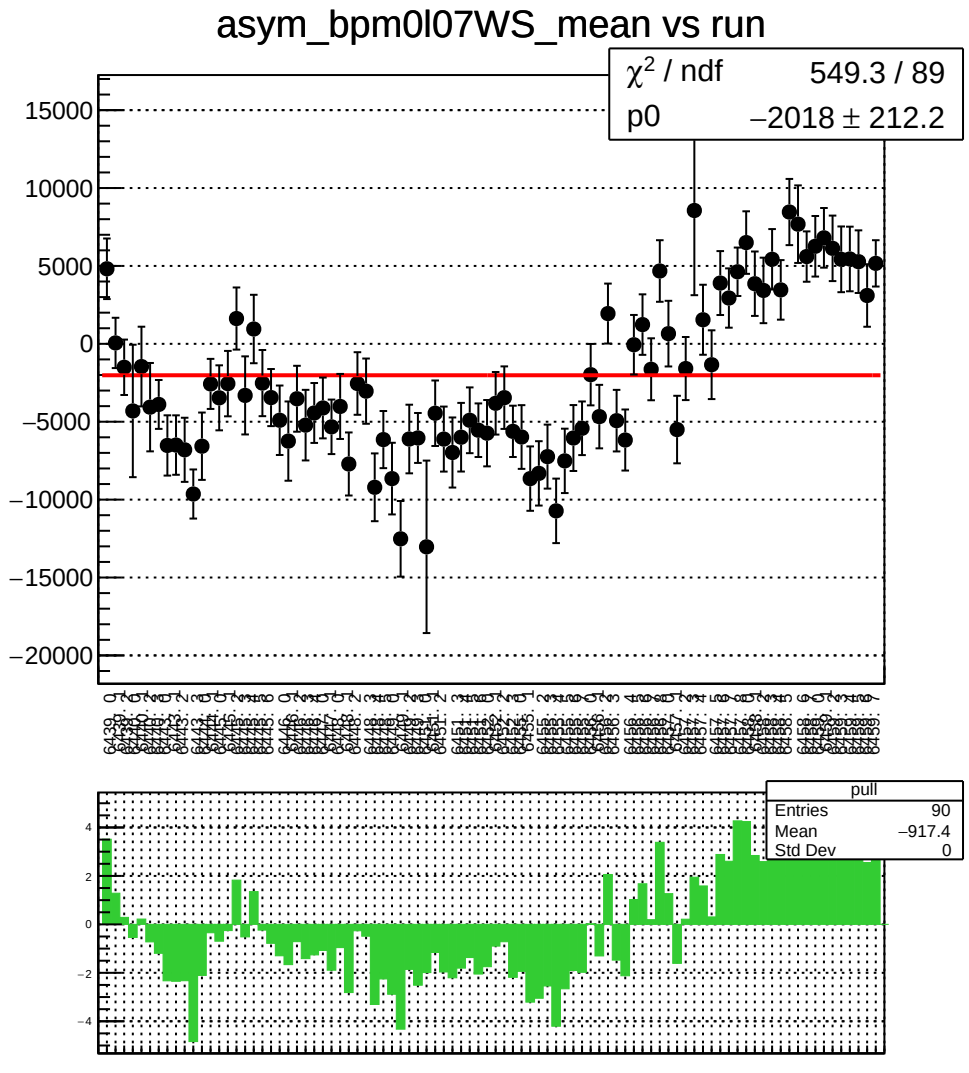

pull1D
Entries 90
Mean −0.03622
Std Dev 2.35
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

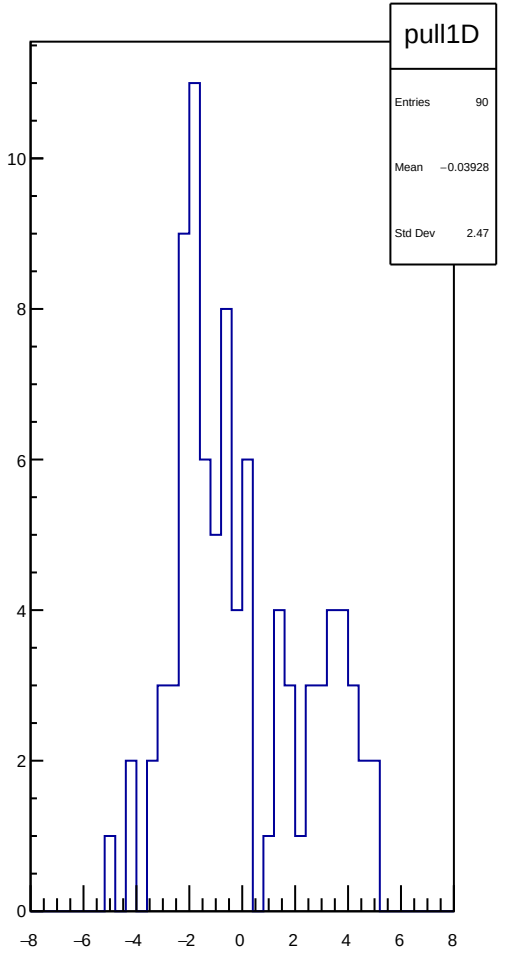

asym_bpm0l05WS_rms vs run
χ² / ndf 2.74e+04 / 89
p0 211.5 ± 0.1597
600
550
500
450
400
350
300
250
200
150

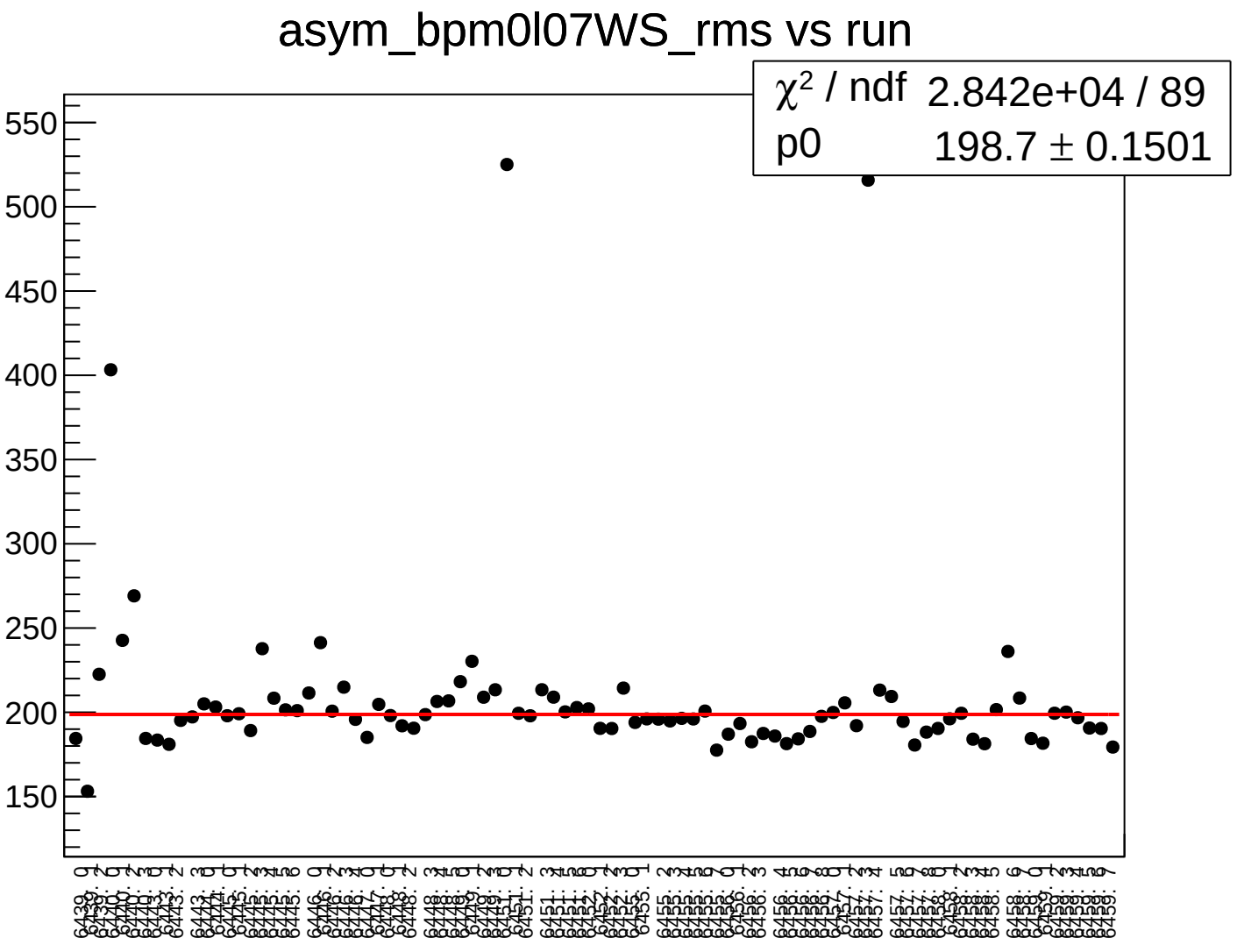

asym_bpm0l06WS_mean vs run
χ² / ndf 567.7 / 89
p0 −1923 ± 215.6
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 90
Mean −891.2
Std Dev 0
4
2
0
−2
−4

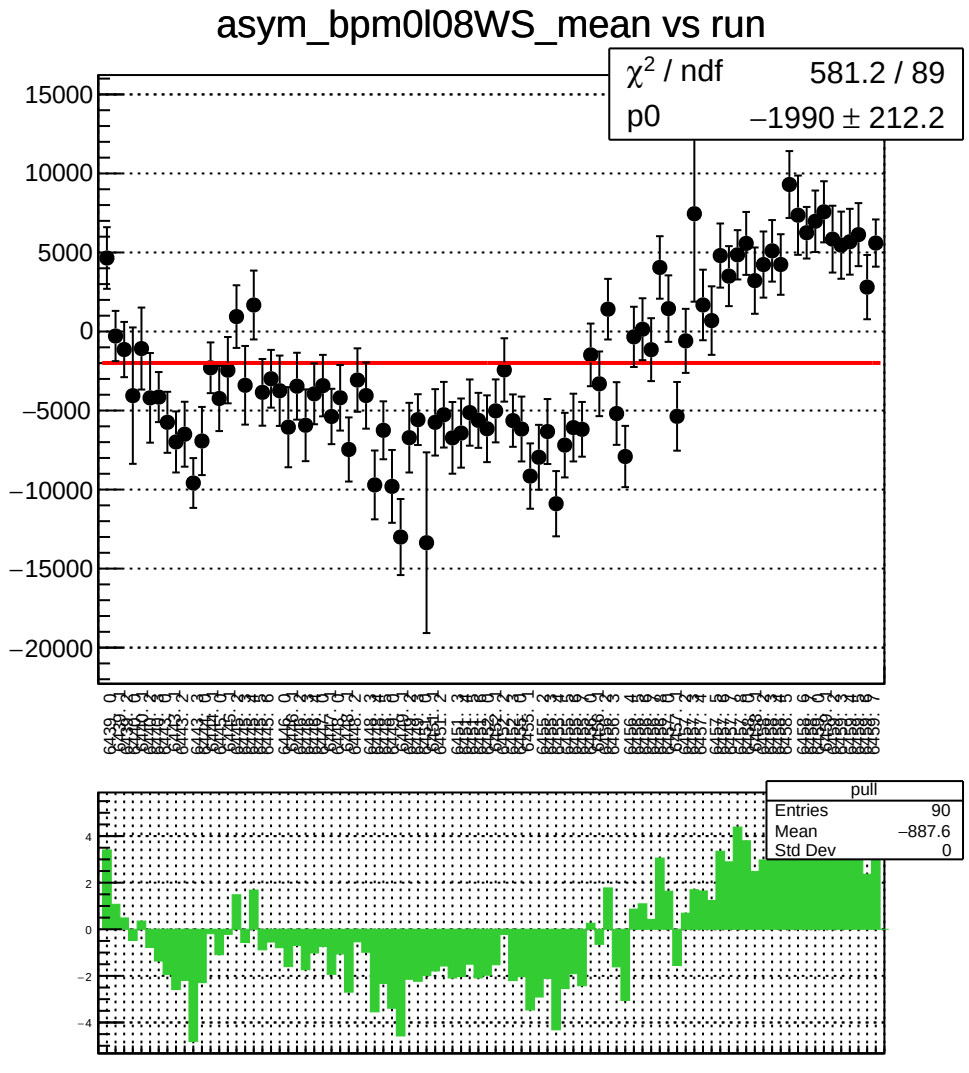

pull1D
Entries 90
Mean −0.04115
Std Dev 2.511
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

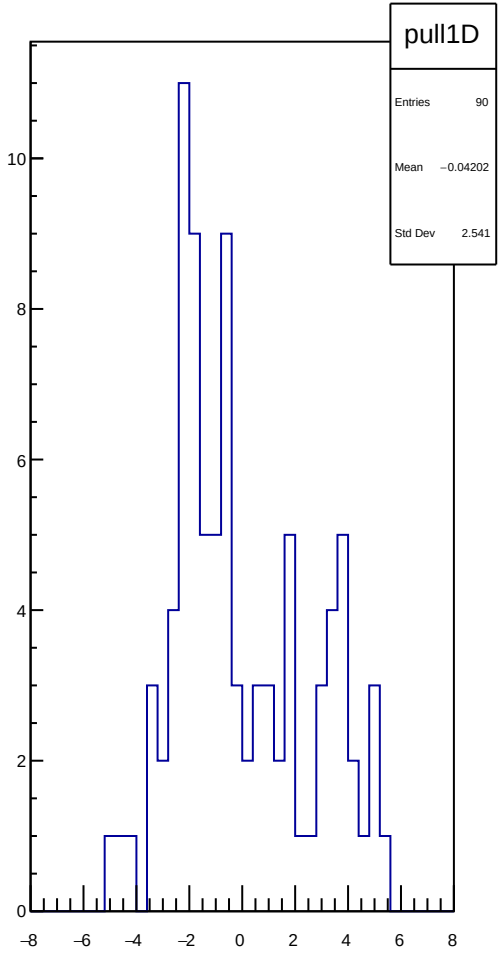

asym_bpm0l06WS_rms vs run
χ² / ndf 2.815e+04 / 89
p0 201.9 ± 0.1525
550
500
450
400
350
300
250
200
150

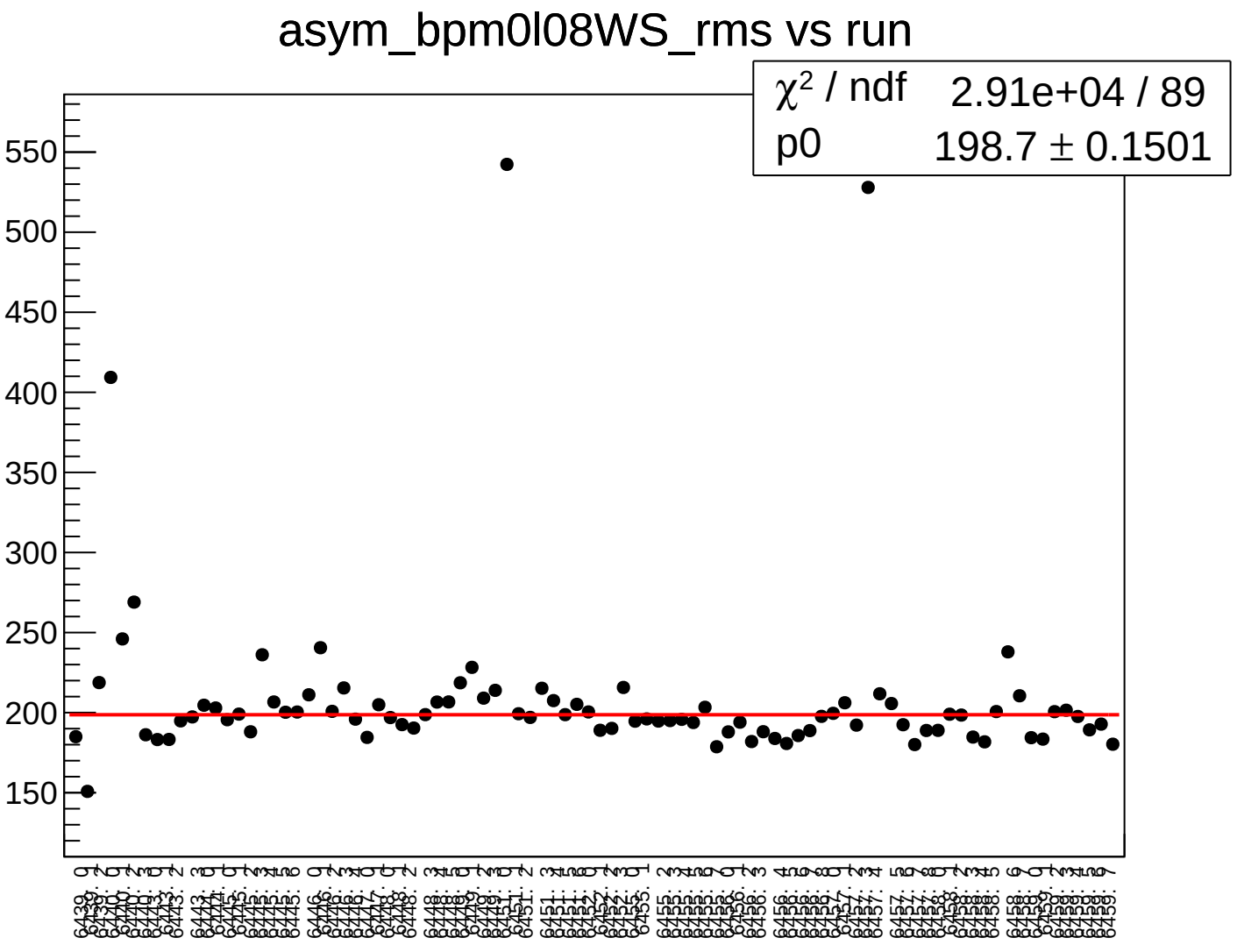

asym_bpm0l07WS_mean vs run
χ² / ndf 549.3 / 89
p0 −2018 ± 212.2
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 90
Mean −917.4
Std Dev 0
4
2
0
−2
−4

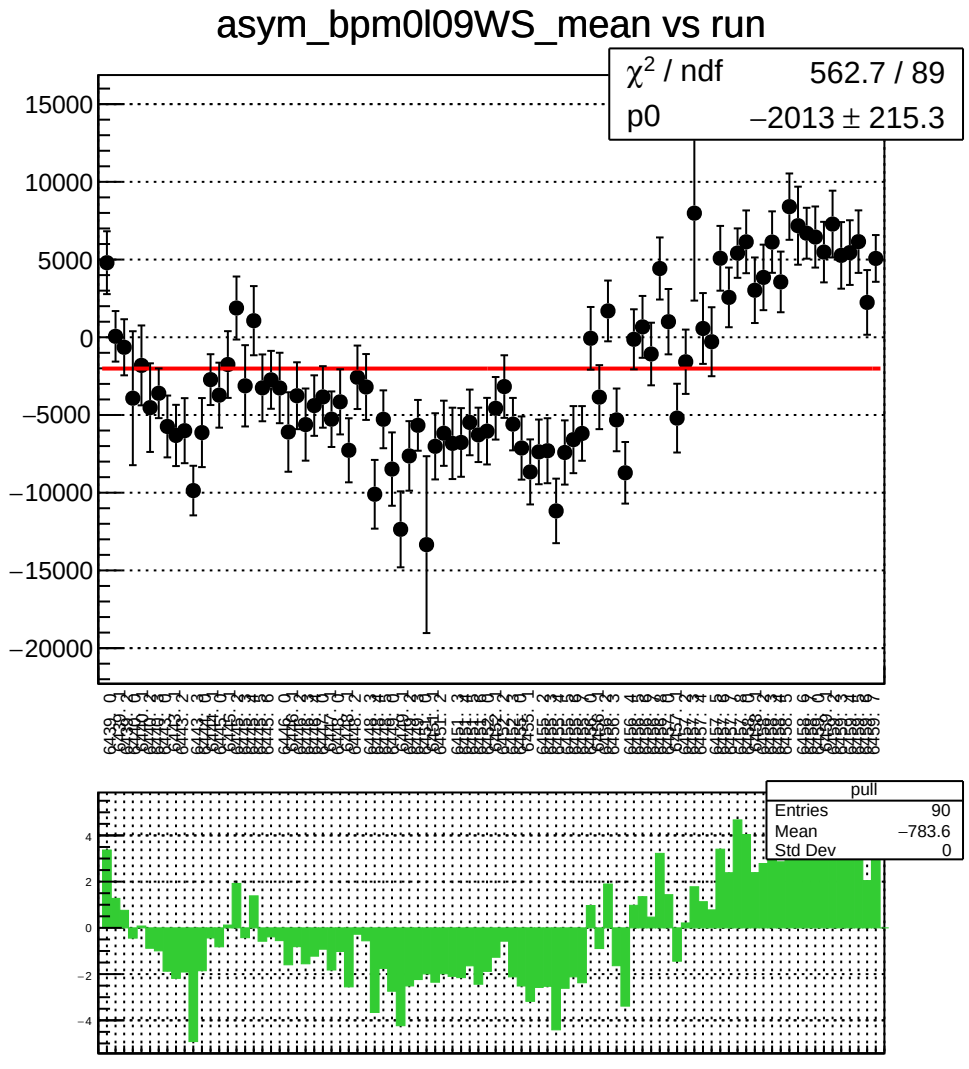

pull1D
Entries 90
Mean −0.03928
Std Dev 2.47
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

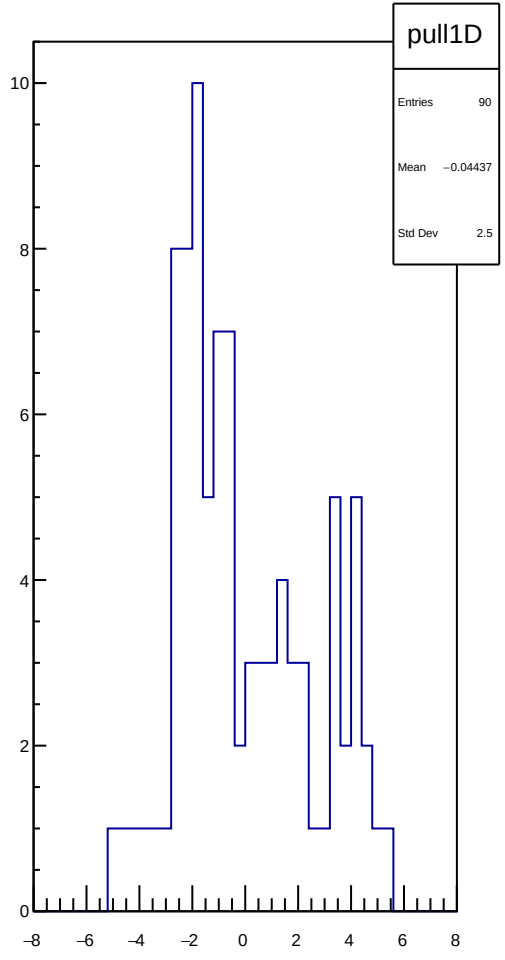

asym_bpm0l07WS_rms vs run
χ² / ndf 2.842e+04 / 89
p0 198.7 ± 0.1501
550
500
450
400
350
300
250
200
150

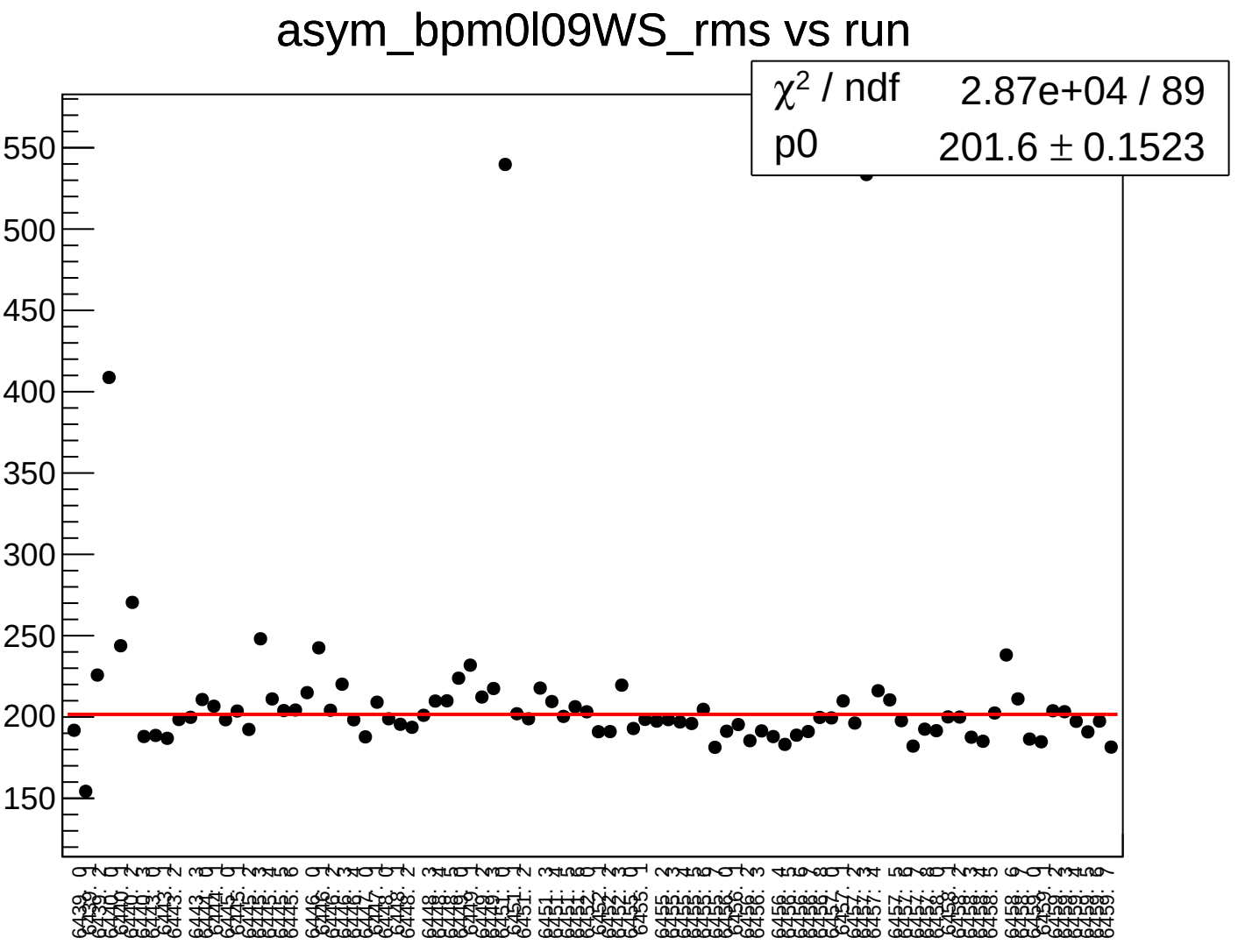

asym_bpm0l08WS_mean vs run
χ² / ndf 581.2 / 89
p0 −1990 ± 212.2
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 90
Mean −887.6
Std Dev 0
4
2
0
−2
−4

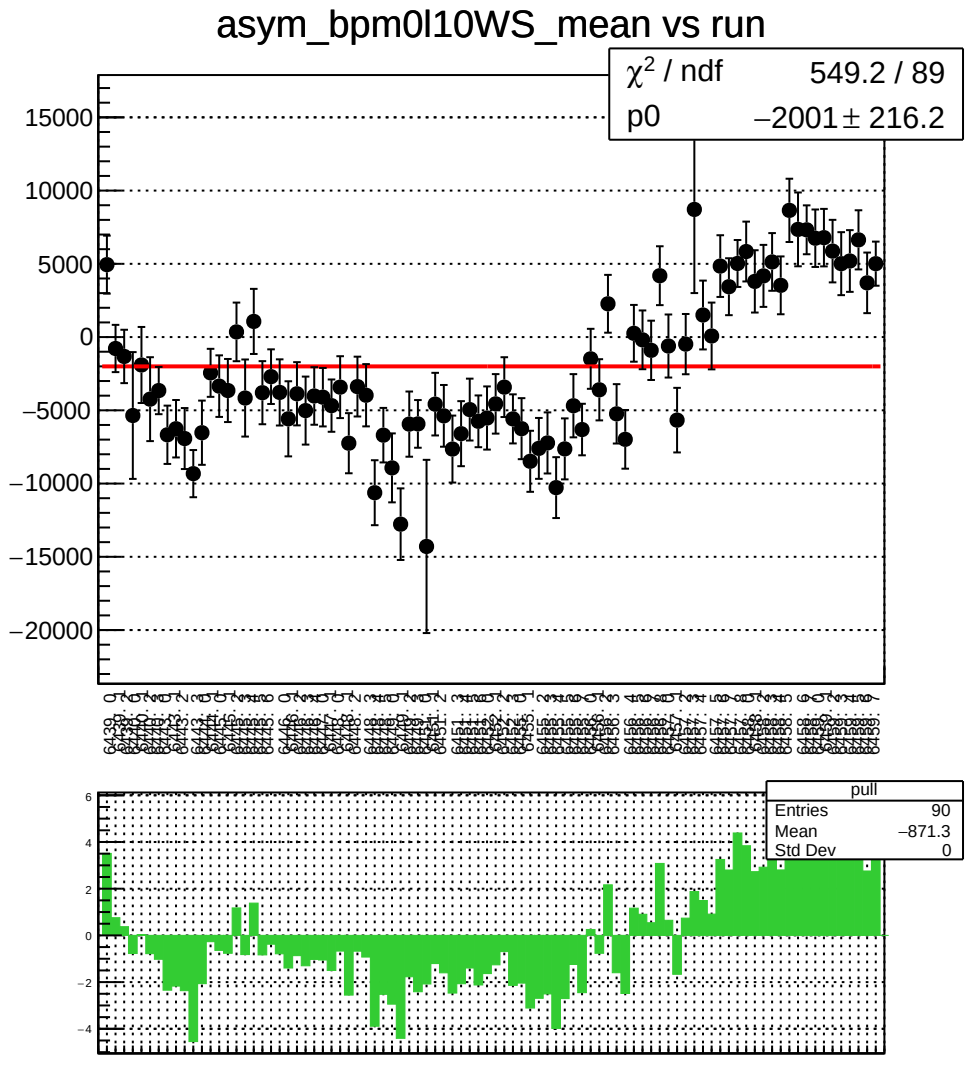

pull1D
Entries 90
Mean −0.04202
Std Dev 2.541
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

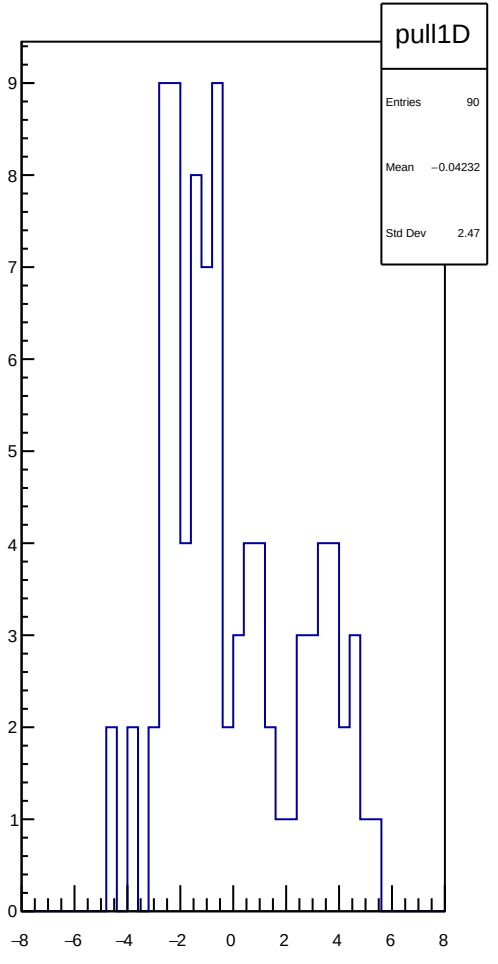

asym_bpm0l08WS_rms vs run
χ² / ndf 2.91e+04 / 89
p0 198.7 ± 0.1501
550
500
450
400
350
300
250
200
150

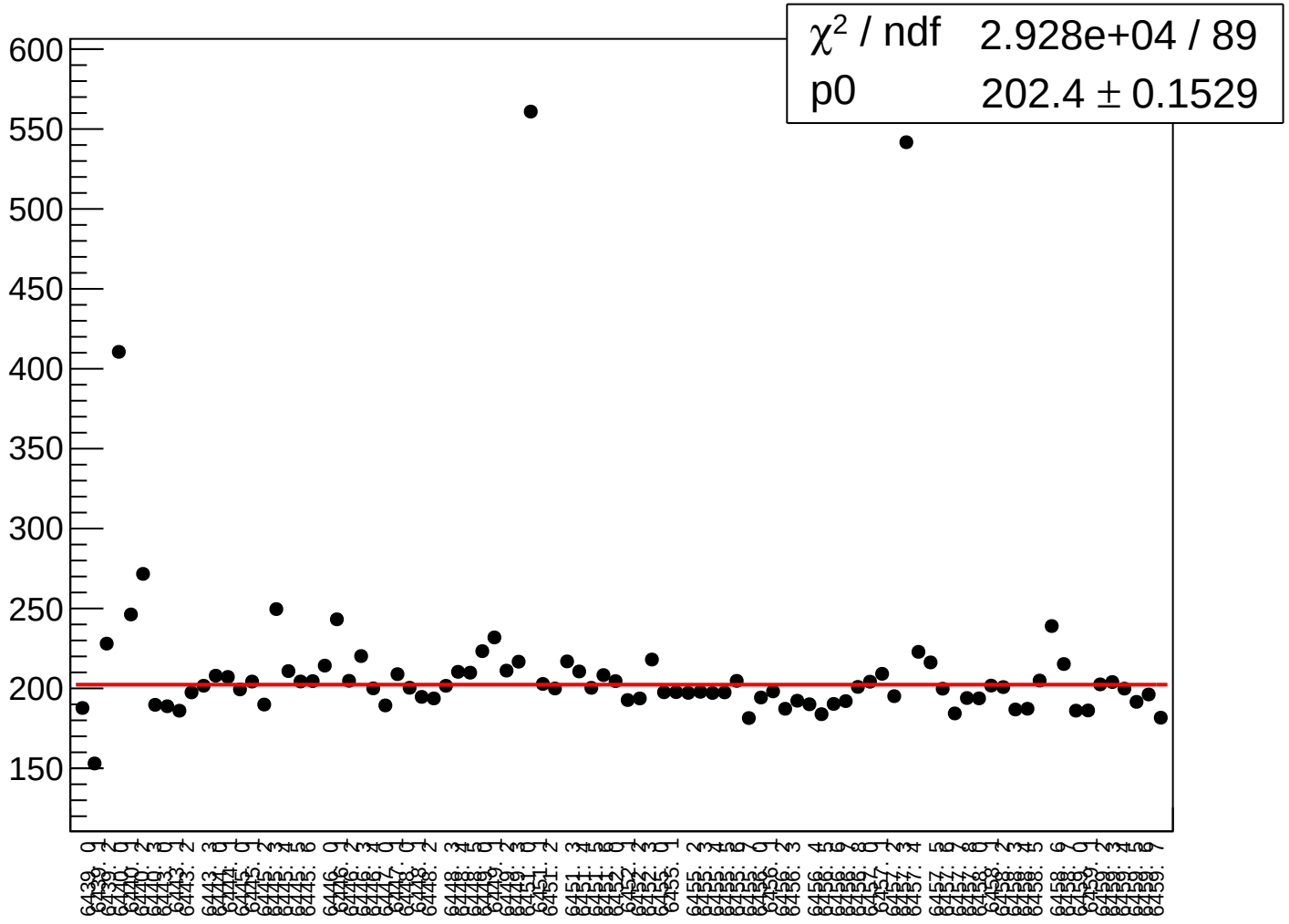

asym_bpm0l09WS_mean vs run
χ² / ndf 562.7 / 89
p0 −2013 ± 215.3
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 90
Mean −783.6
Std Dev 0
4
2
0
−2
−4

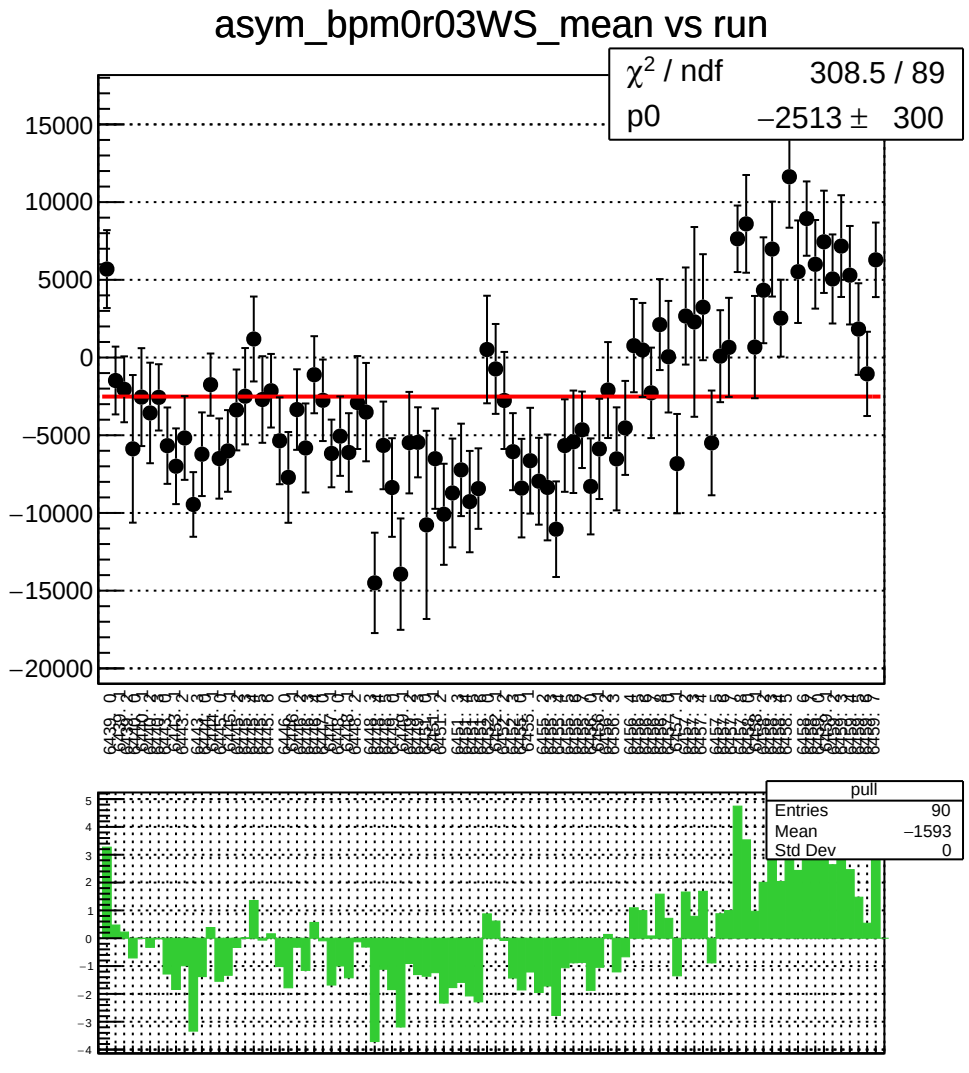

pull1D
Entries 90
Mean −0.04437
Std Dev 2.5
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

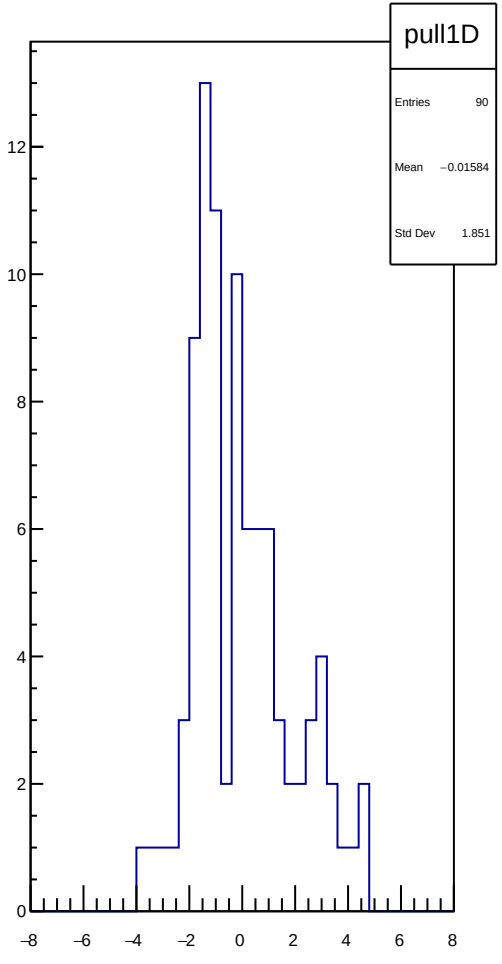

asym_bpm0l09WS_rms vs run
χ² / ndf 2.87e+04 / 89
p0 201.6 ± 0.1523
550
500
450
400
350
300
250
200
150

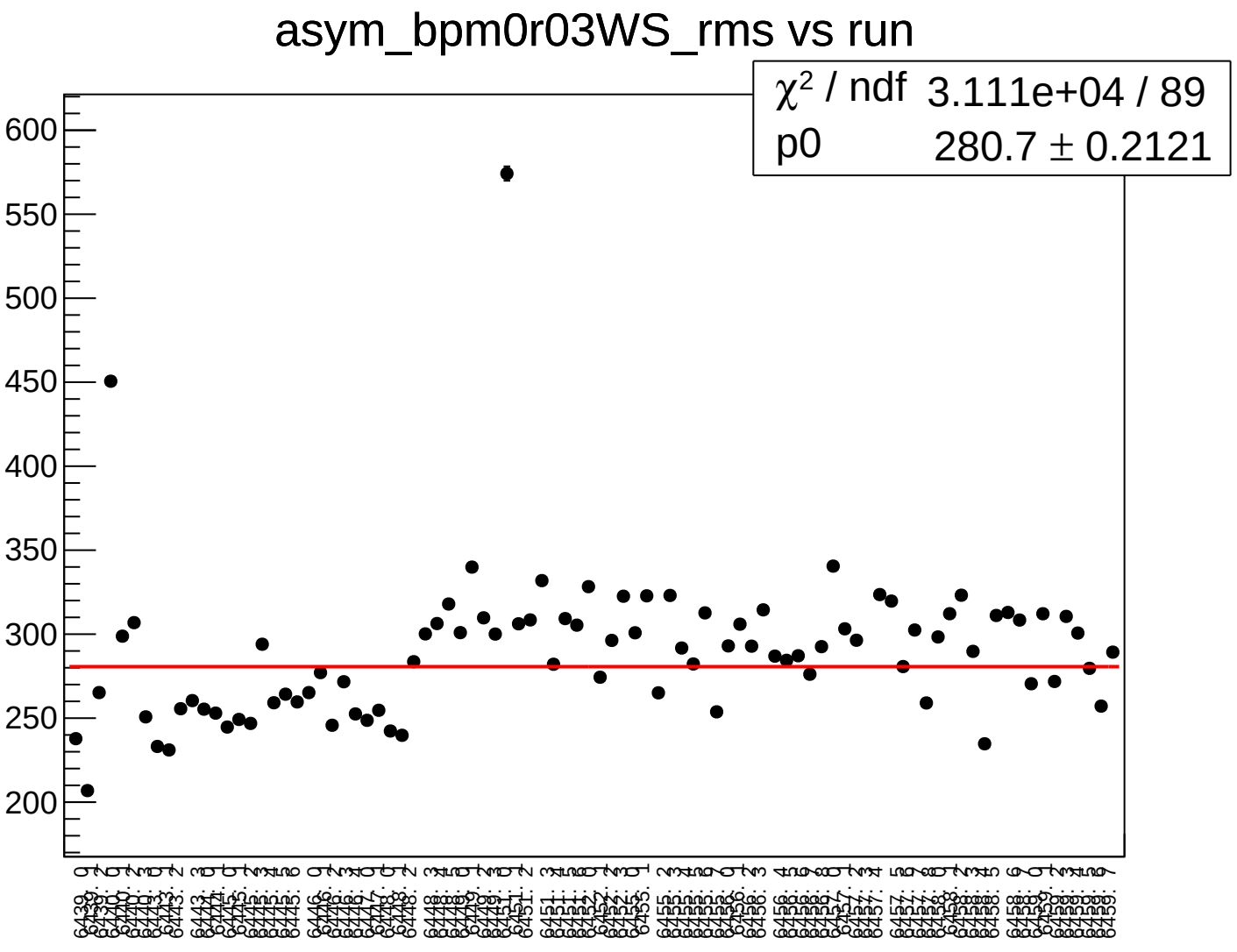

asym_bpm0l10WS_mean vs run
χ² / ndf 549.2 / 89
p0 −2001 ± 216.2
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 90
Mean −871.3
Std Dev 0
6
4
2
0
−2
−4

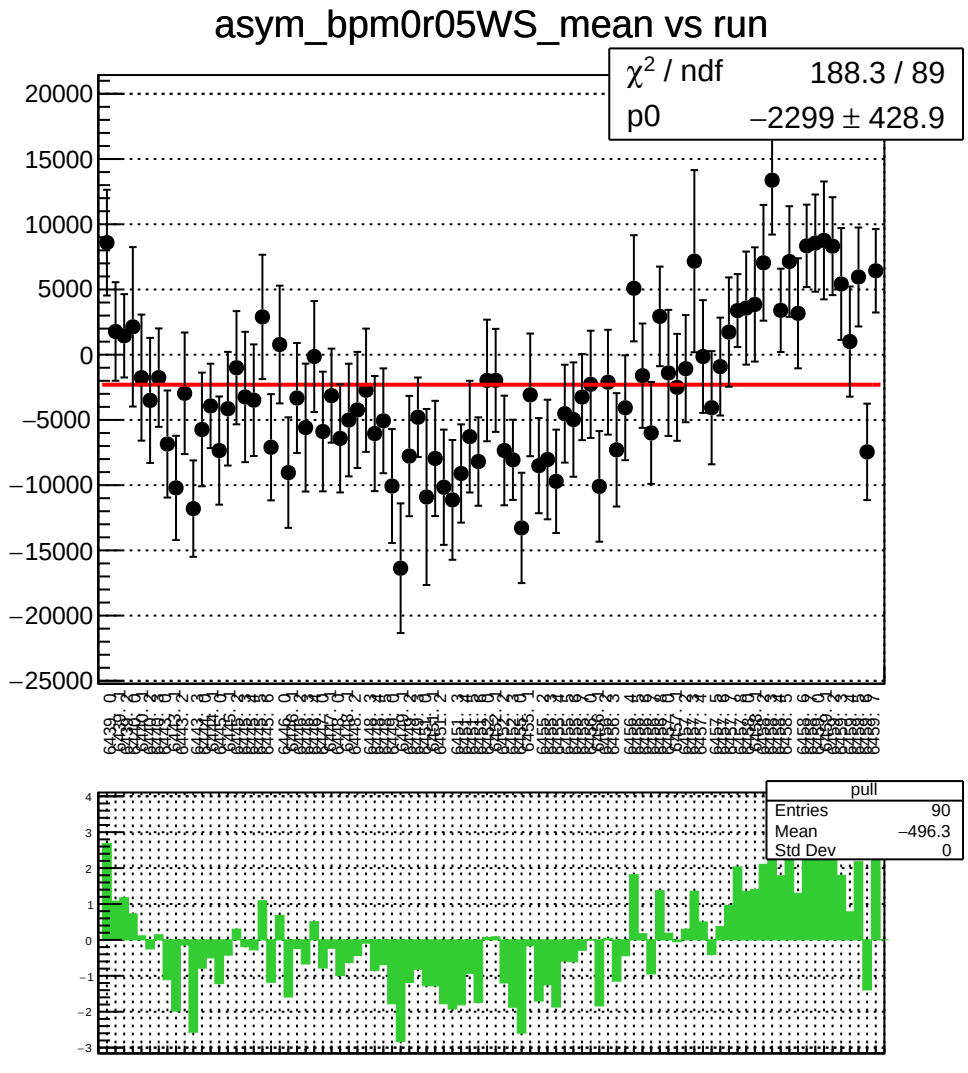

pull1D
Entries 90
Mean −0.04232
Std Dev 2.47
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

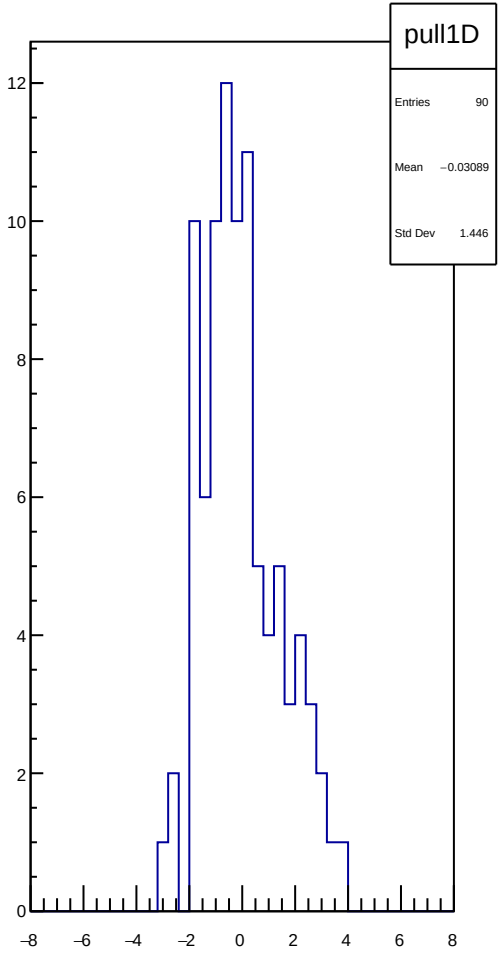

asym_bpm0l10WS_rms vs run
χ^2 / ndf 2.928e+04 / 89
p0 202.4 ± 0.1529
600
550
500
450
400
350
300
250
200
150

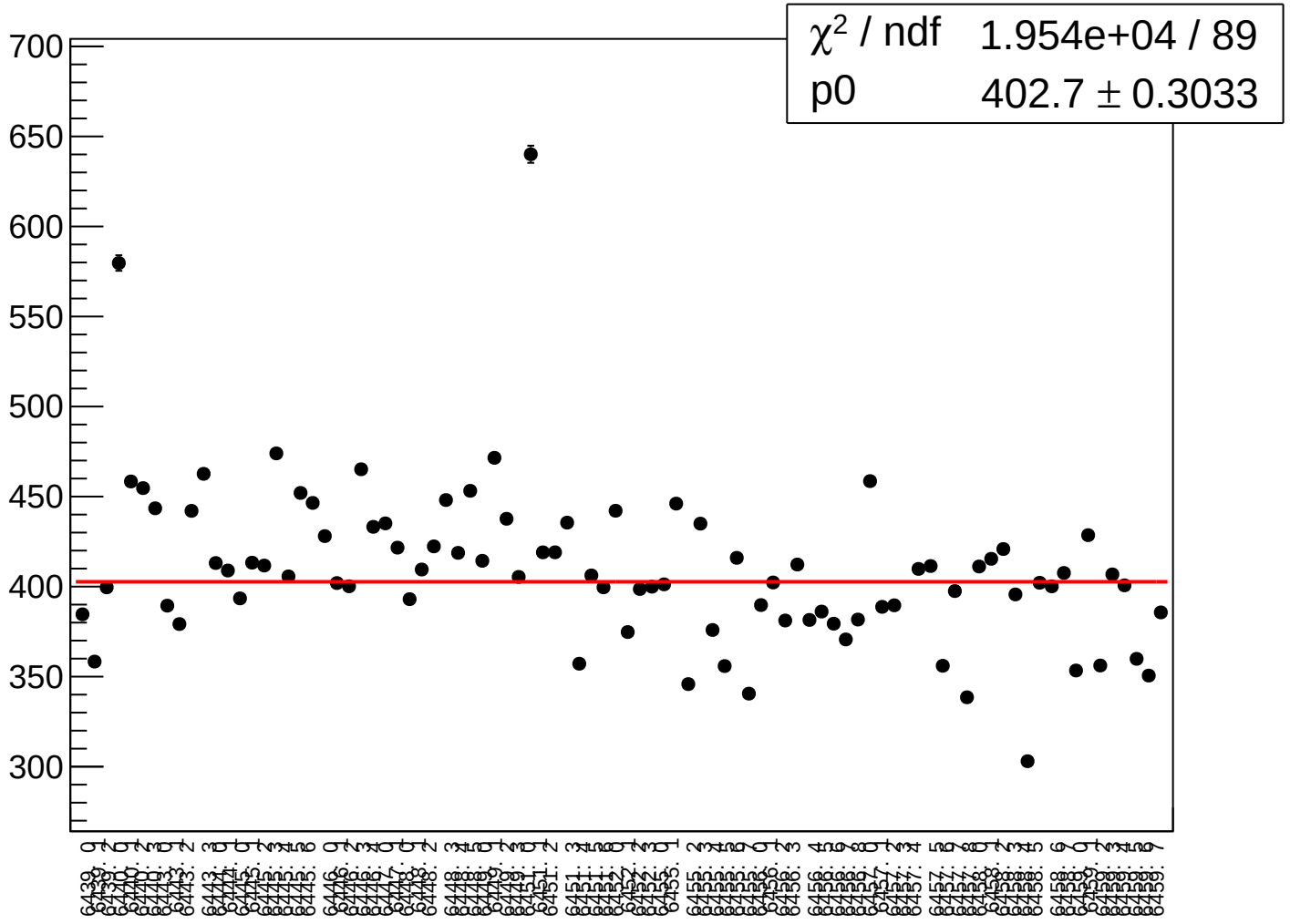

asym_bpm0r03WS_mean vs run
χ² / ndf 308.5 / 89
p0 −2513 ± 300
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 90
Mean −1593
Std Dev 0
5
4
3
2
1
0
−1
−2
−3
−4

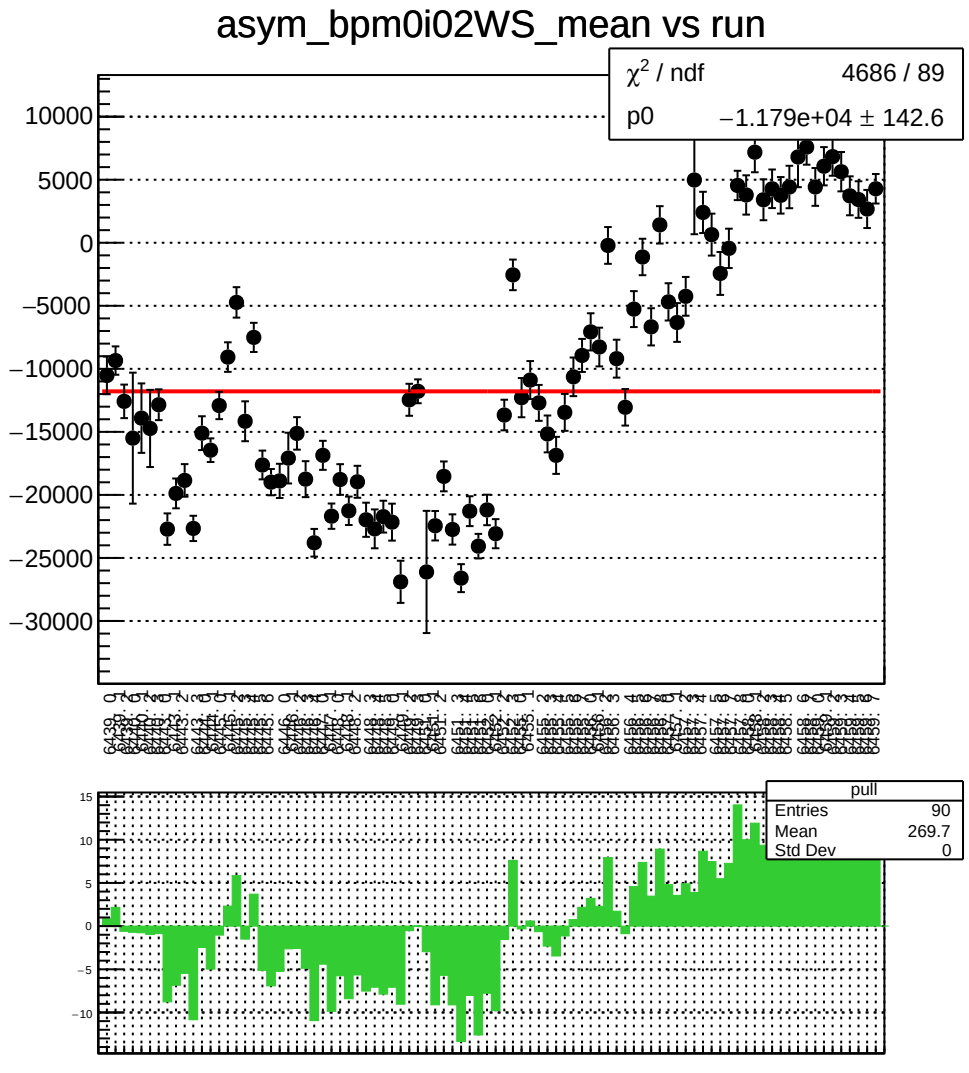

pull1D
Entries 90
Mean −0.01584
Std Dev 1.851
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

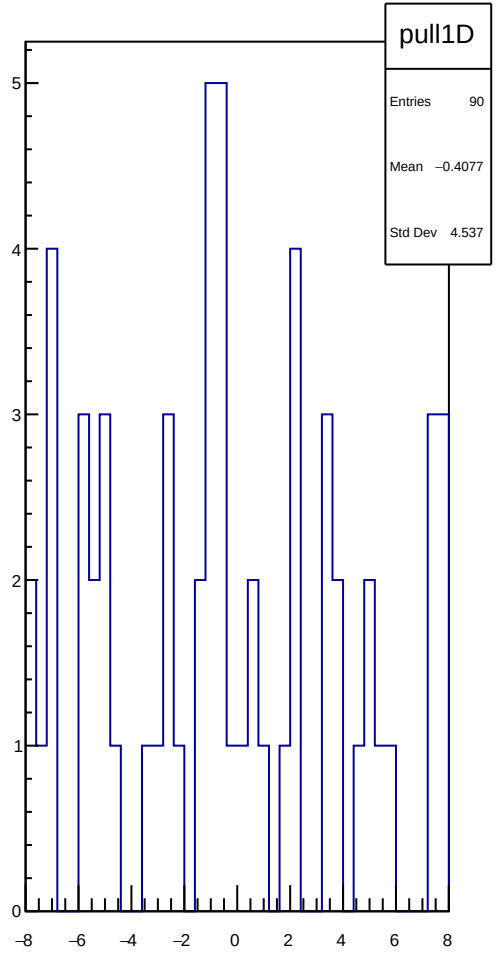

asym_bpm0r03WS_rms vs run
χ^2 / ndf 3.111e+04 / 89
p0 280.7 ± 0.2121
600
550
500
450
400
350
300
250
200

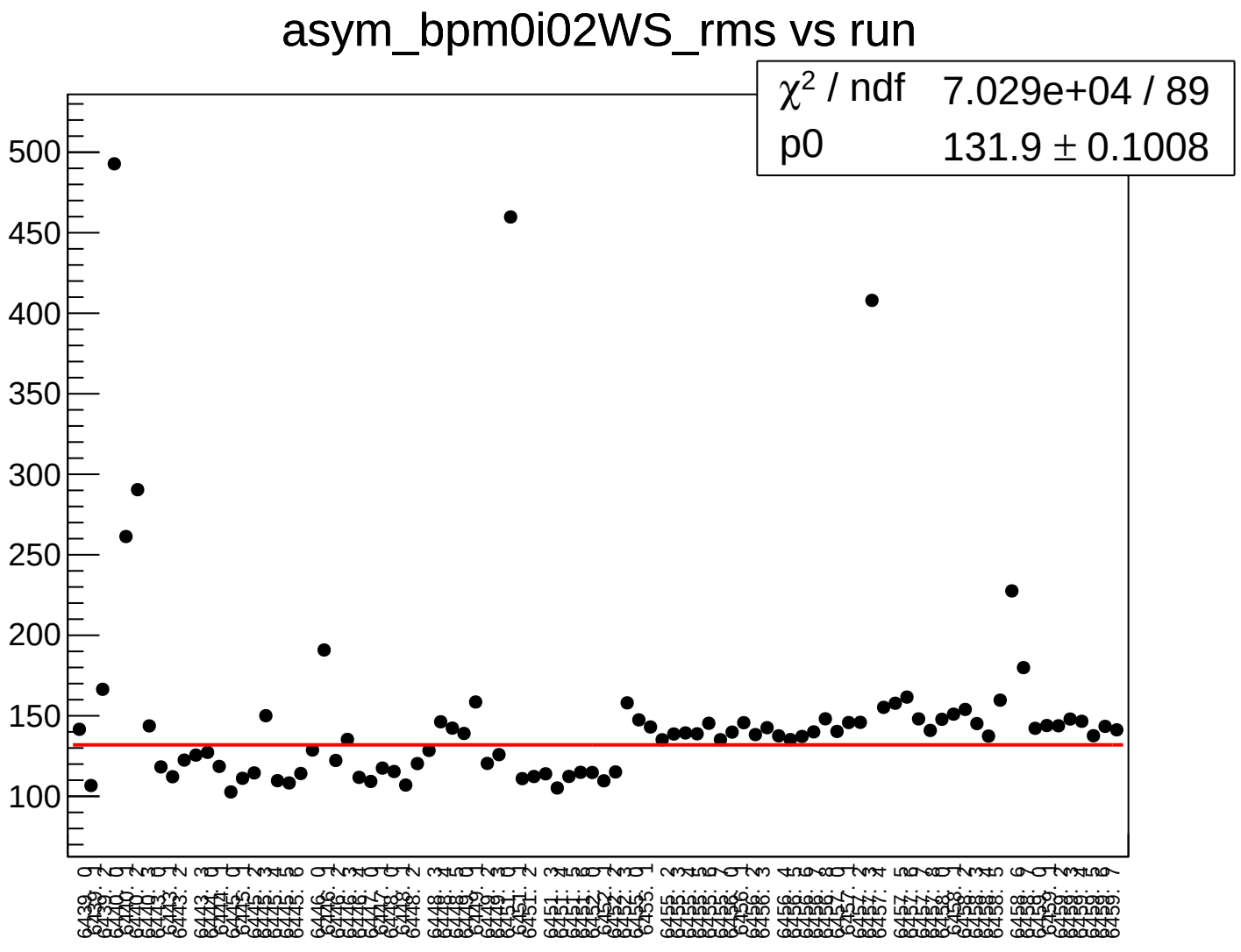

asym_bpm0r05WS_mean vs run
χ² / ndf 188.3 / 89
p0 −2299 ± 428.9
pull
Entries 90
Mean −496.3
Std Dev 0

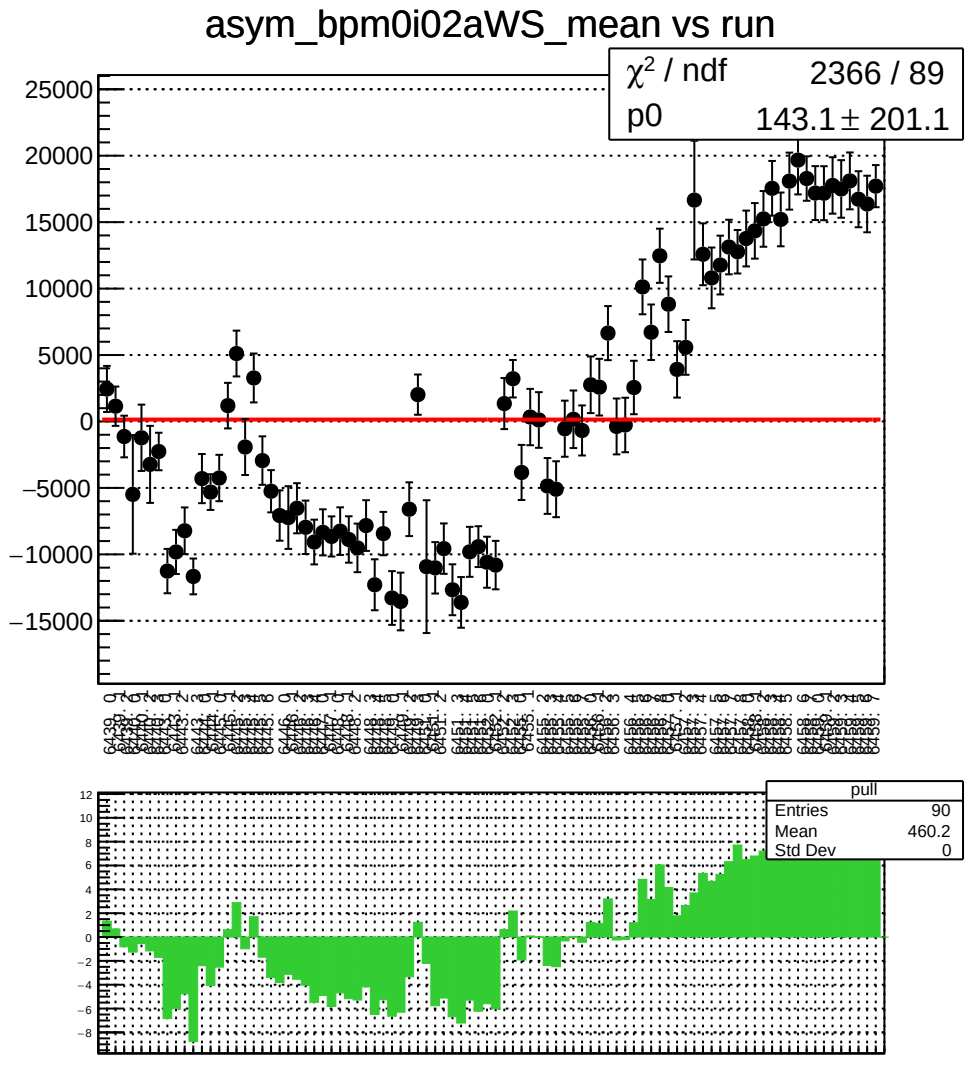

pull1D
Entries 90
Mean −0.03089
Std Dev 1.446

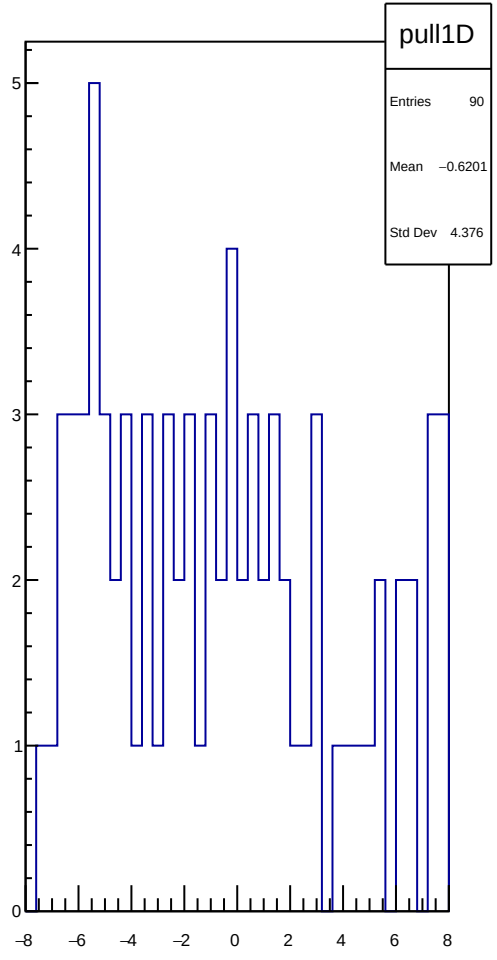

asym_bpm0r05WS_rms vs run
χ² / ndf 1.954e+04 / 89
p0 402.7 ± 0.3033
700
650
600
550
500
450
400
350
300

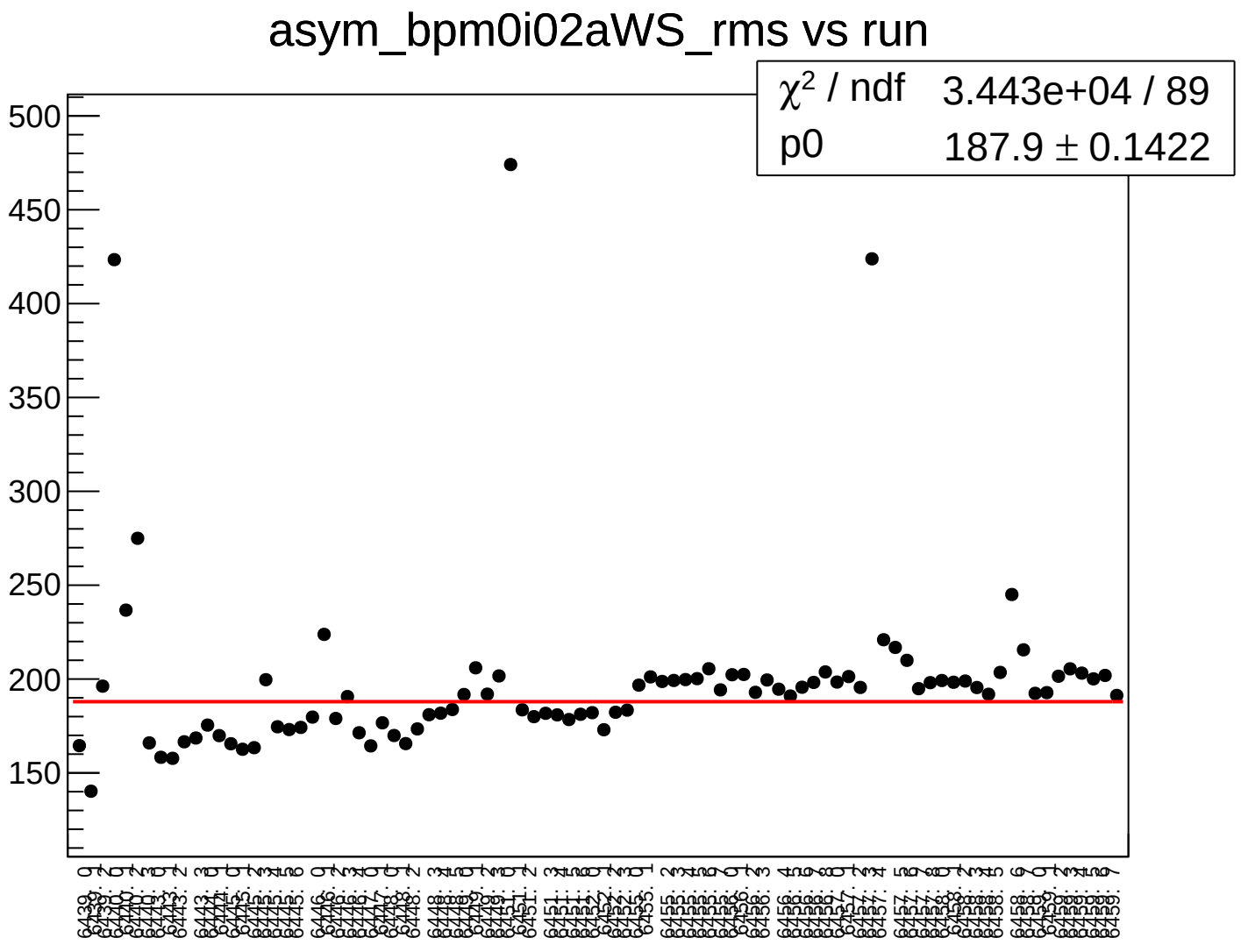

asym_bpm0i02WS_mean vs run
χ² / ndf 4686 / 89
p0 −1.179e+04 ± 142.6
pull
Entries 90
Mean 269.7
Std Dev 0

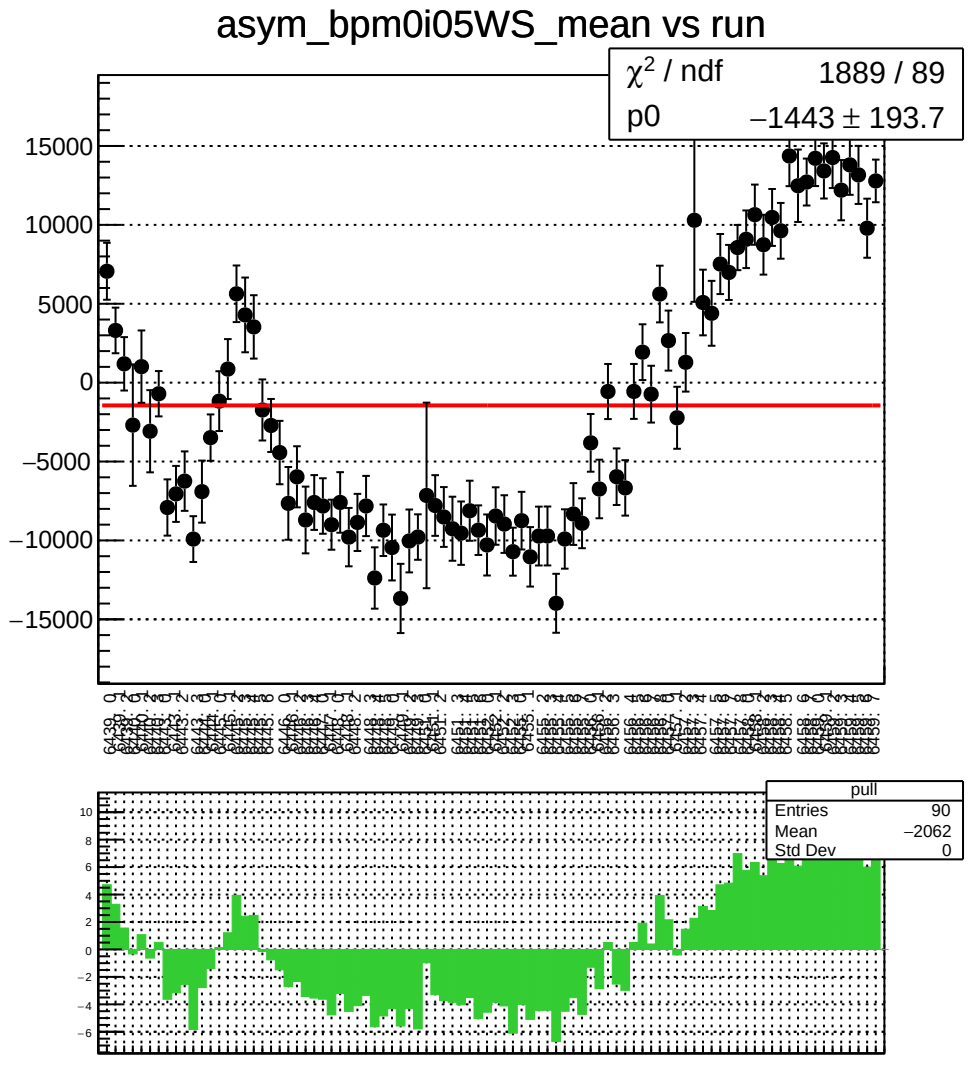

pull1D
Entries 90
Mean −0.4077
Std Dev 4.537

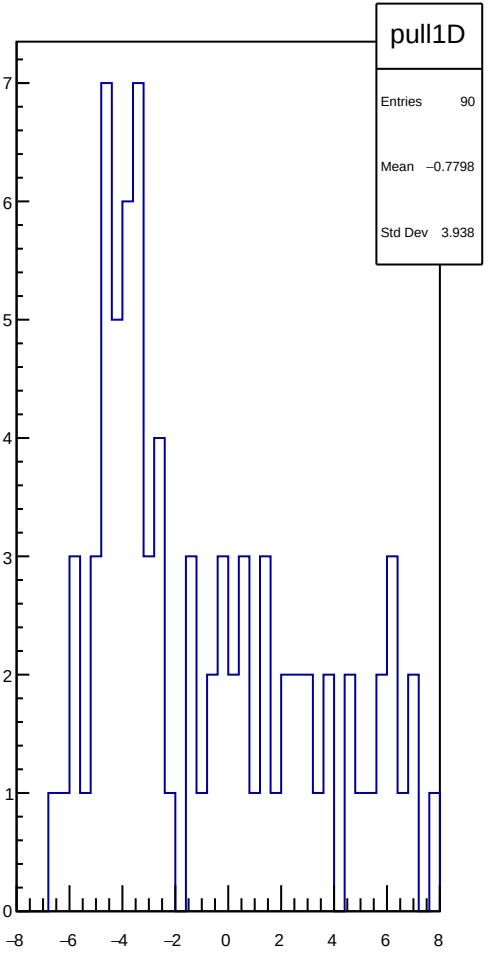

asym_bpm0i02WS_rms vs run
χ² / ndf 7.029e+04 / 89
p0 131.9 ± 0.1008
500
450
400
350
300
250
200
150
100

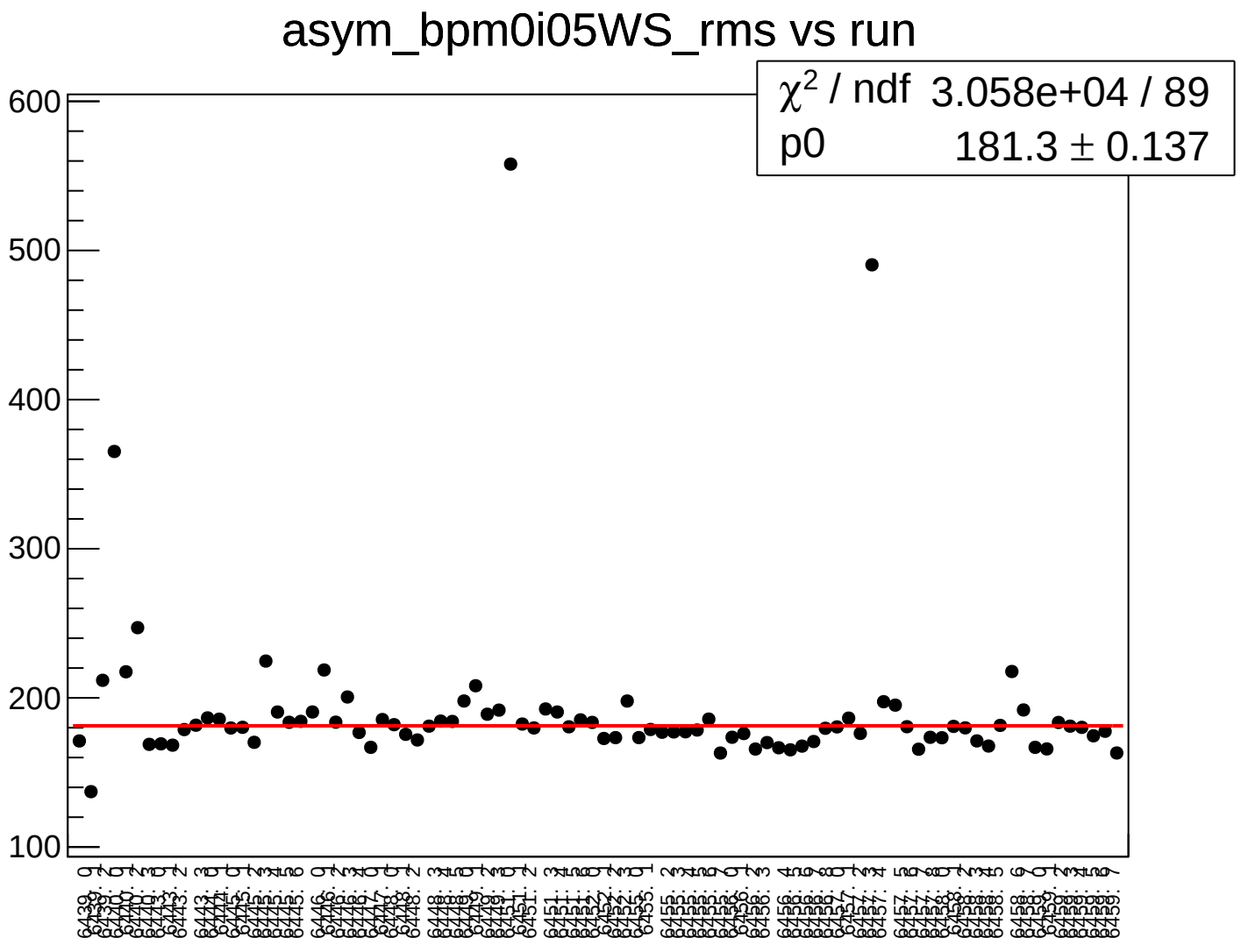

asym_bpm0i02aWS_mean vs run
χ² / ndf 2366 / 89
p0 143.1 ± 201.1
pull
Entries 90
Mean 460.2
Std Dev 0

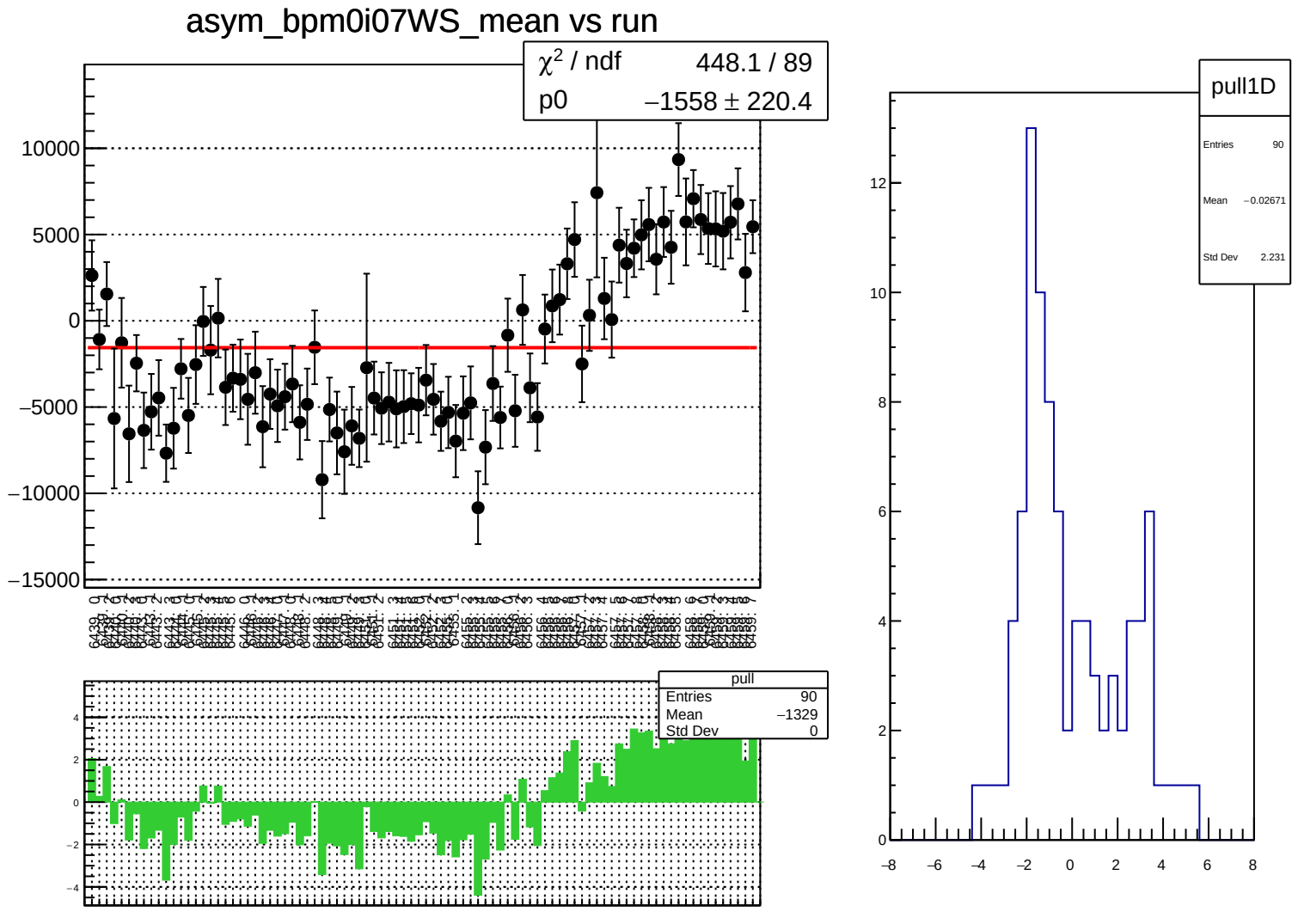

pull1D
Entries 90
Mean −0.6201
Std Dev 4.376

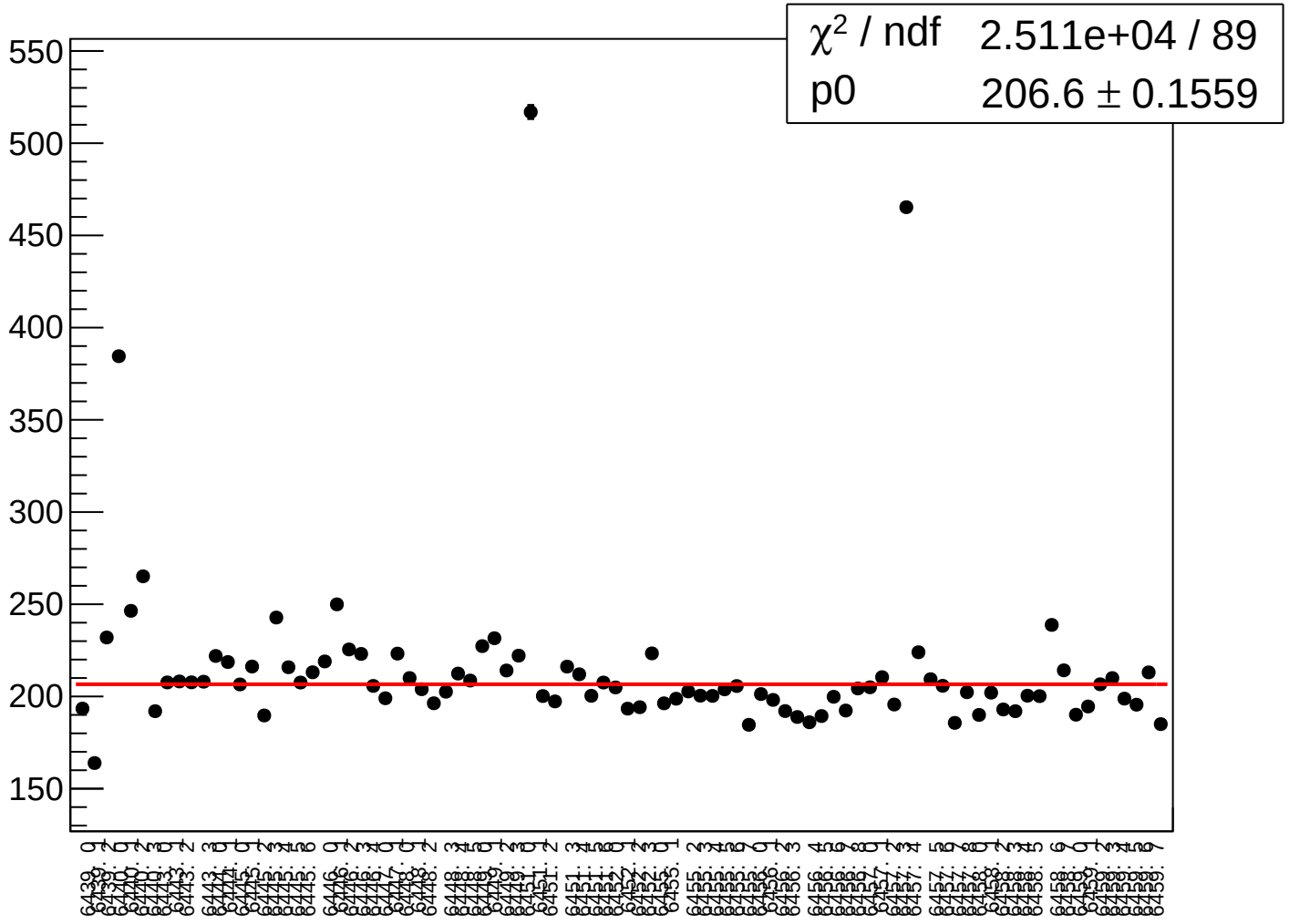

asym_bpm0i02aWS_rms vs run
χ² / ndf 3.443e+04 / 89
p0 187.9 ± 0.1422
500
450
400
350
300
250
200
150

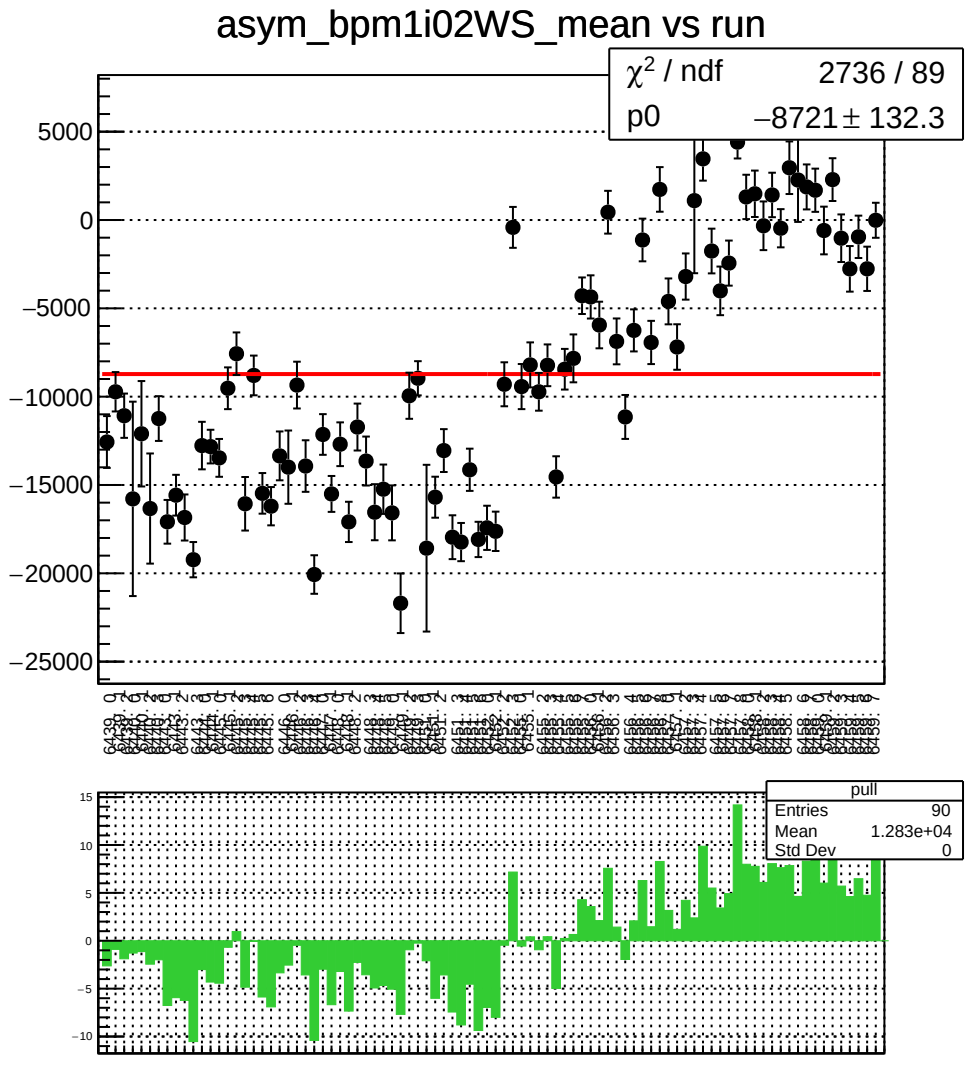

asym_bpm0i05WS_mean vs run
χ² / ndf 1889 / 89
p0 −1443 ± 193.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 90
Mean −2062
Std Dev 0
10
8
6
4
2
0
−2
−4
−6

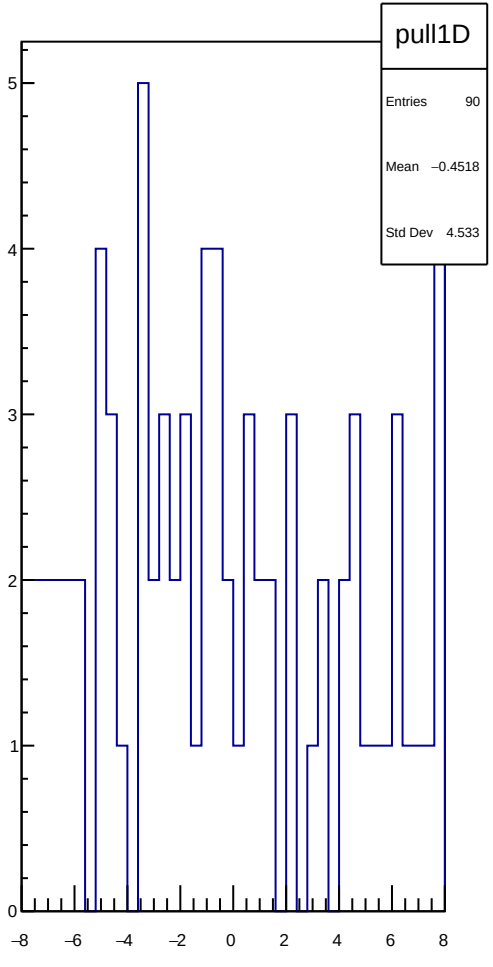

pull1D
Entries 90
Mean −0.7798
Std Dev 3.938
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

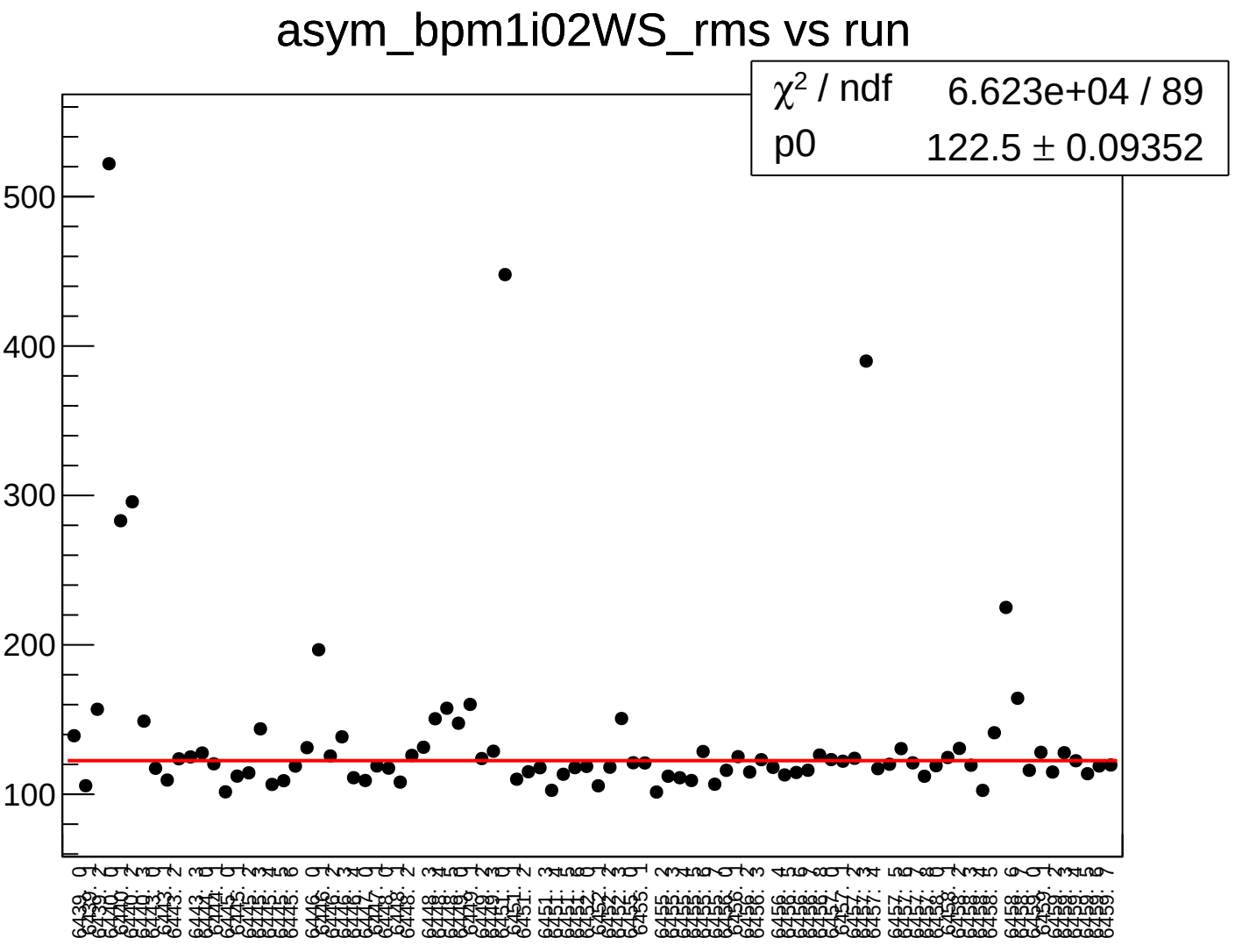

asym_bpm0i05WS_rms vs run
χ^2 / ndf 3.058e+04 / 89
p0 181.3 ± 0.137
600
500
400
300
200
100

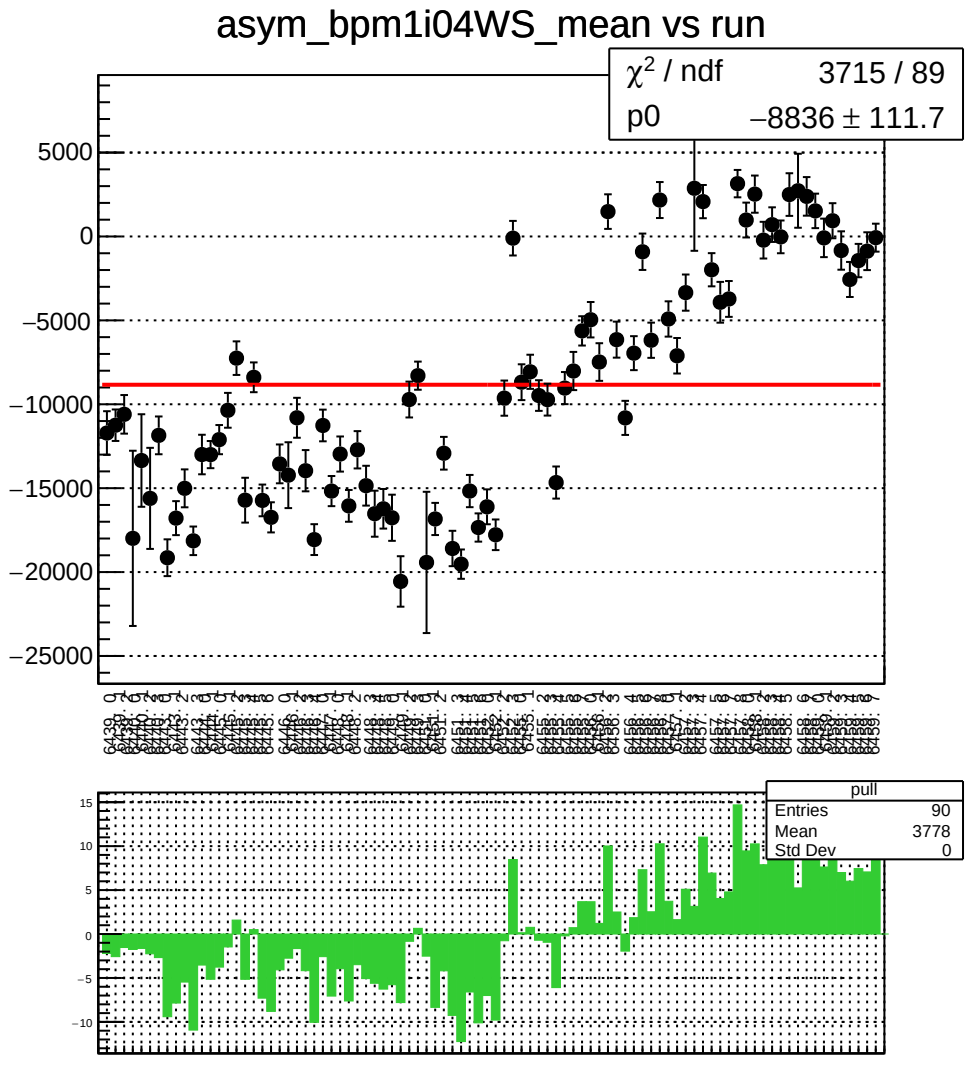

asym_bpm0i07WS_mean vs run
χ² / ndf 448.1 / 89
p0 −1558 ± 220.4
10000
5000
0
−5000
−10000
−15000
pull
Entries 90
Mean −1329
Std Dev 0
4
2
0
−2
−4
pull1D
Entries 90
Mean −0.02671
Std Dev 2.231
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

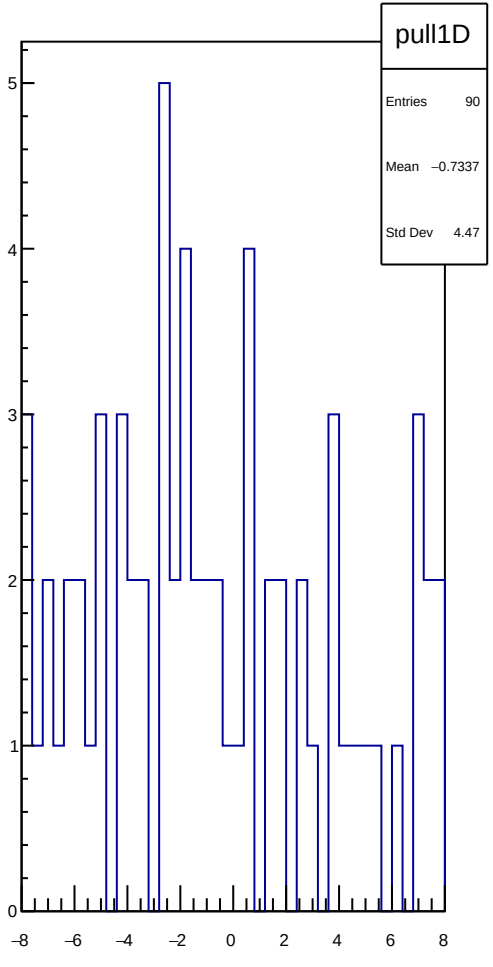

asym_bpm0i07WS_rms vs run
χ^2 / ndf 2.511e+04 / 89
p0 206.6 ± 0.1559
550
500
450
400
350
300
250
200
150

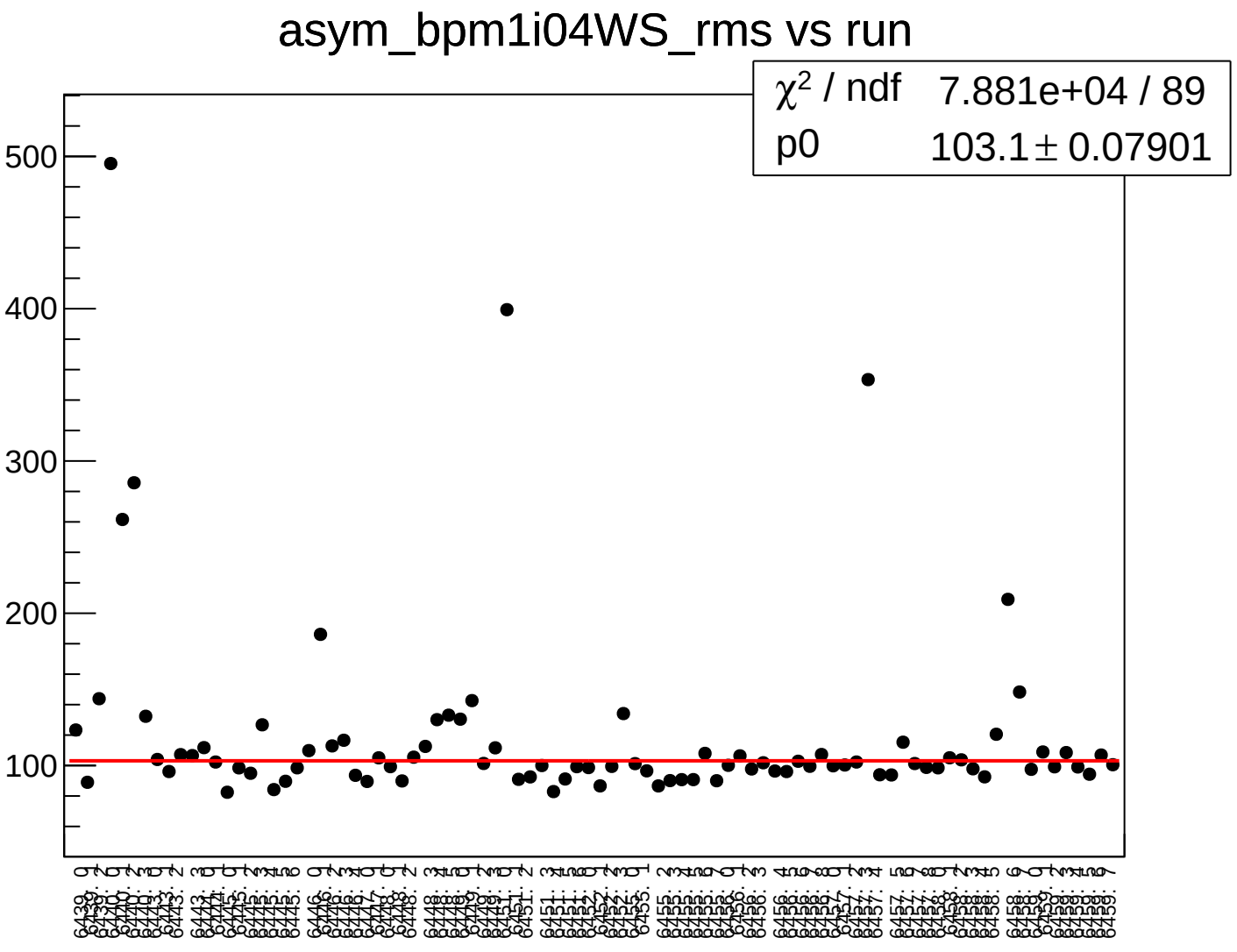

asym_bpm1i02WS_mean vs run
χ² / ndf 2736 / 89
p0 −8721 ± 132.3
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 90
Mean 1.283e+04
Std Dev 0
15
10
5
0
−5
−10

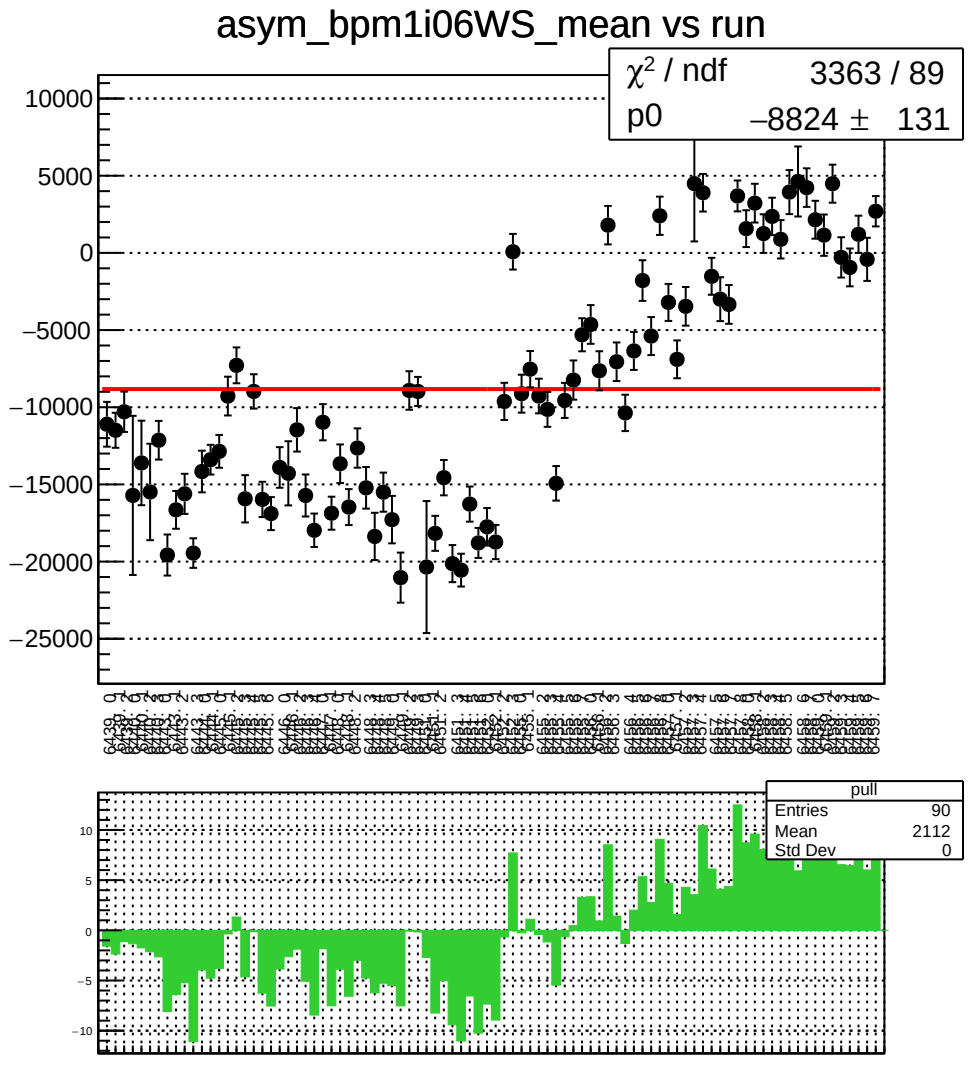

pull1D
Entries 90
Mean −0.4518
Std Dev 4.533
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

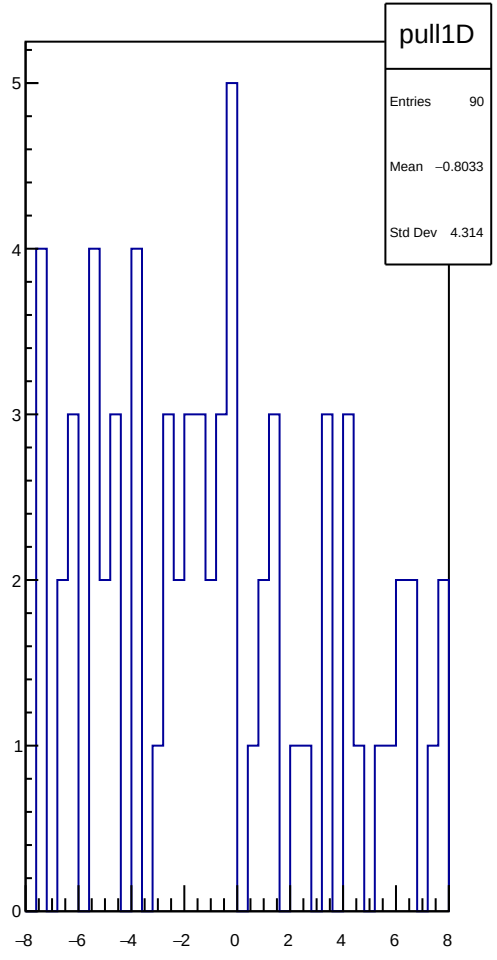

asym_bpm1i02WS_rms vs run
χ^2 / ndf 6.623e+04 / 89
p0 122.5 ± 0.09352
500
400
300
200
100

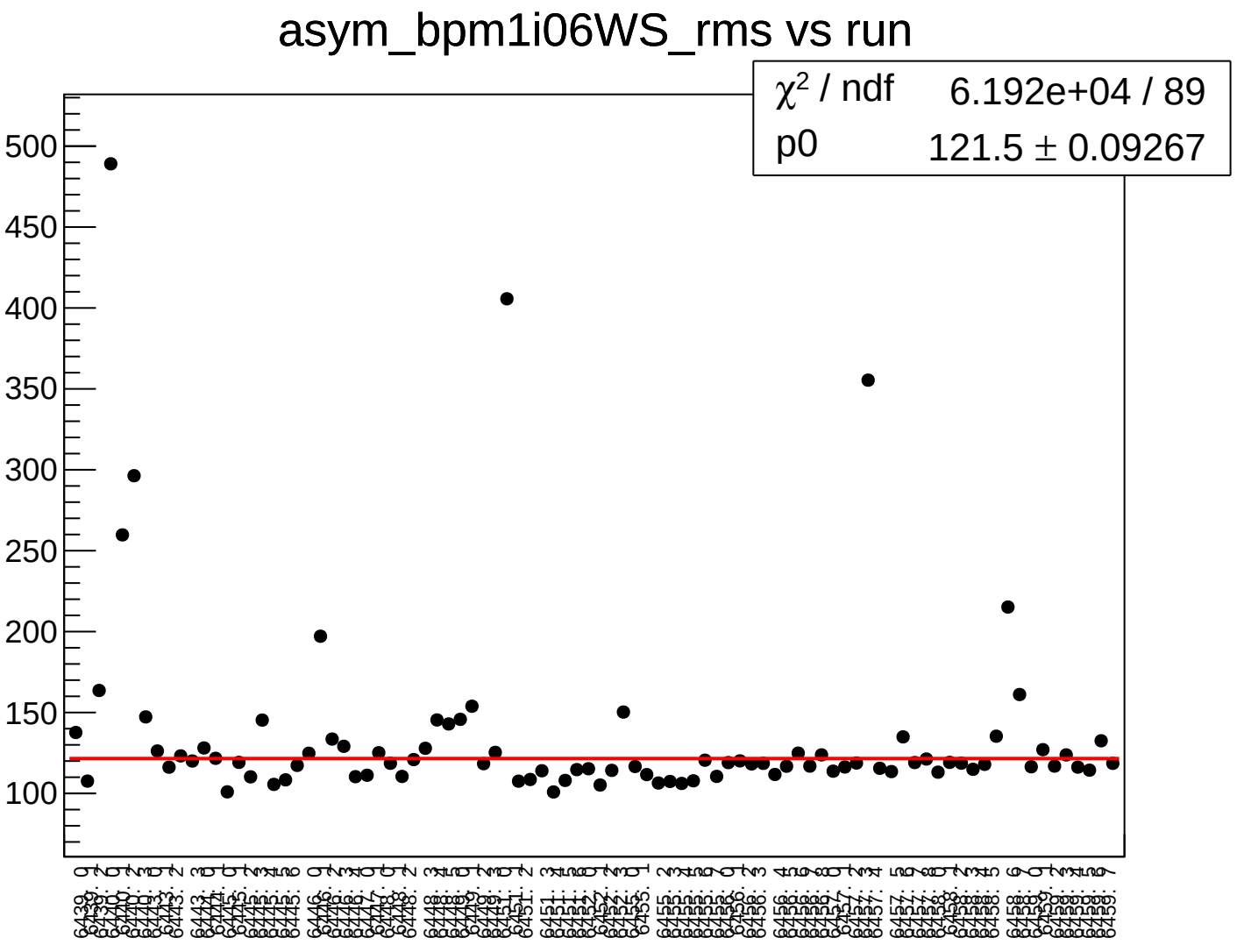

asym_bpm1i04WS_mean vs run
χ² / ndf 3715 / 89
p0 −8836 ± 111.7
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 90
Mean 3778
Std Dev 0
15
10
5
0
−5
−10

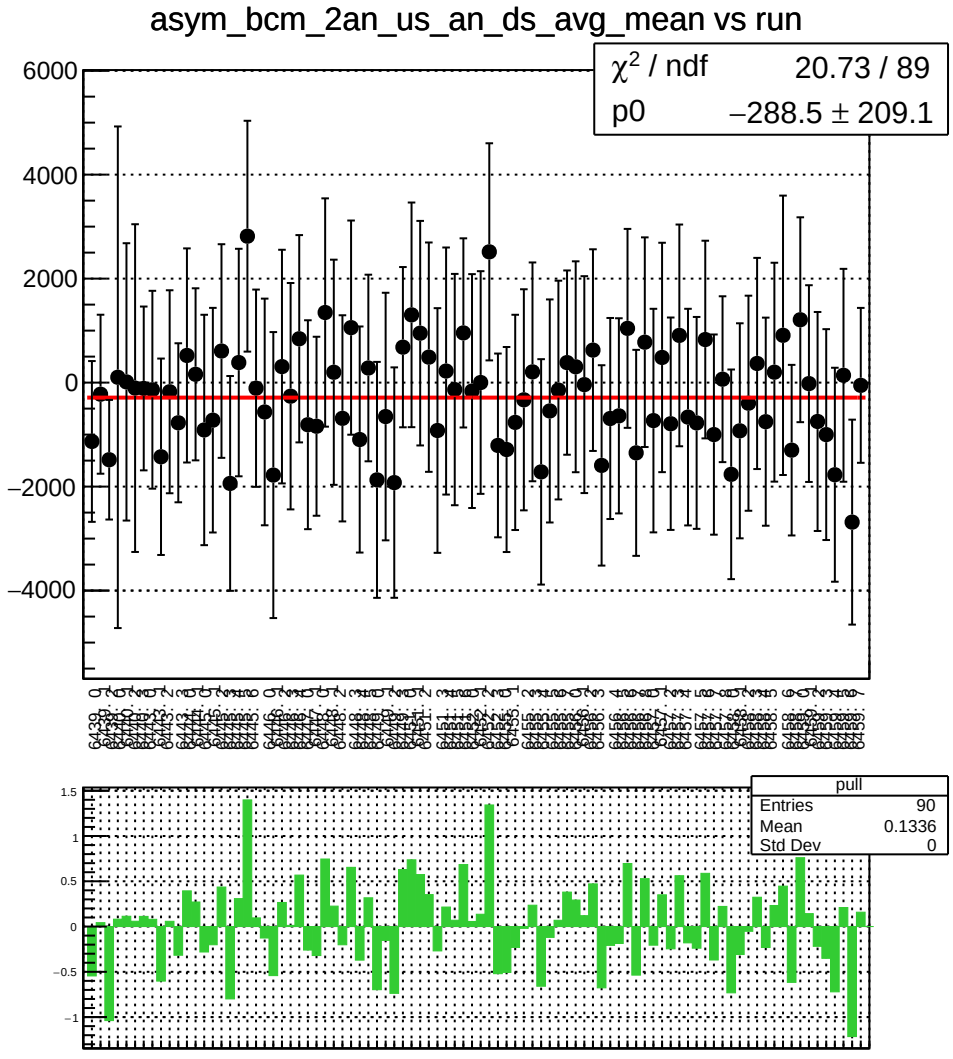

pull1D
Entries 90
Mean −0.7337
Std Dev 4.47
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

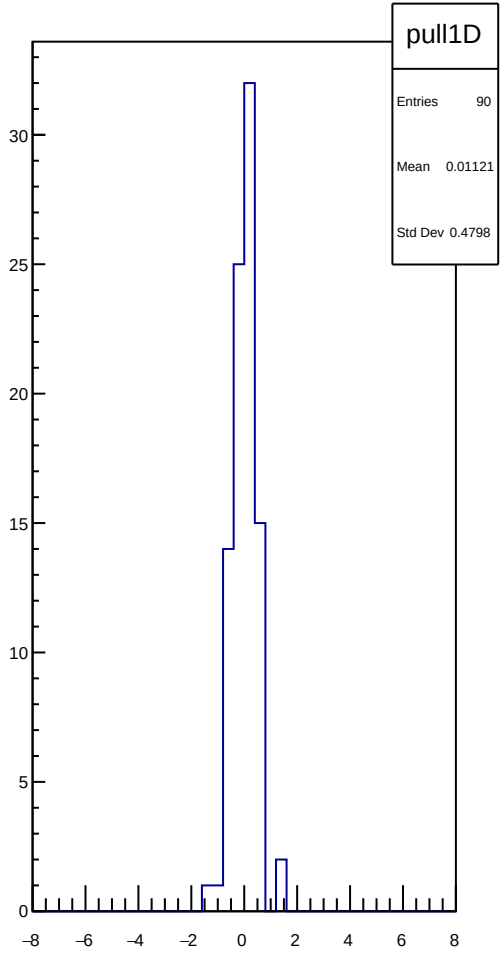

asym_bpm1i04WS_rms vs run
χ^2 / ndf 7.881e+04 / 89
p0 103.1 ± 0.07901
500
400
300
200
100

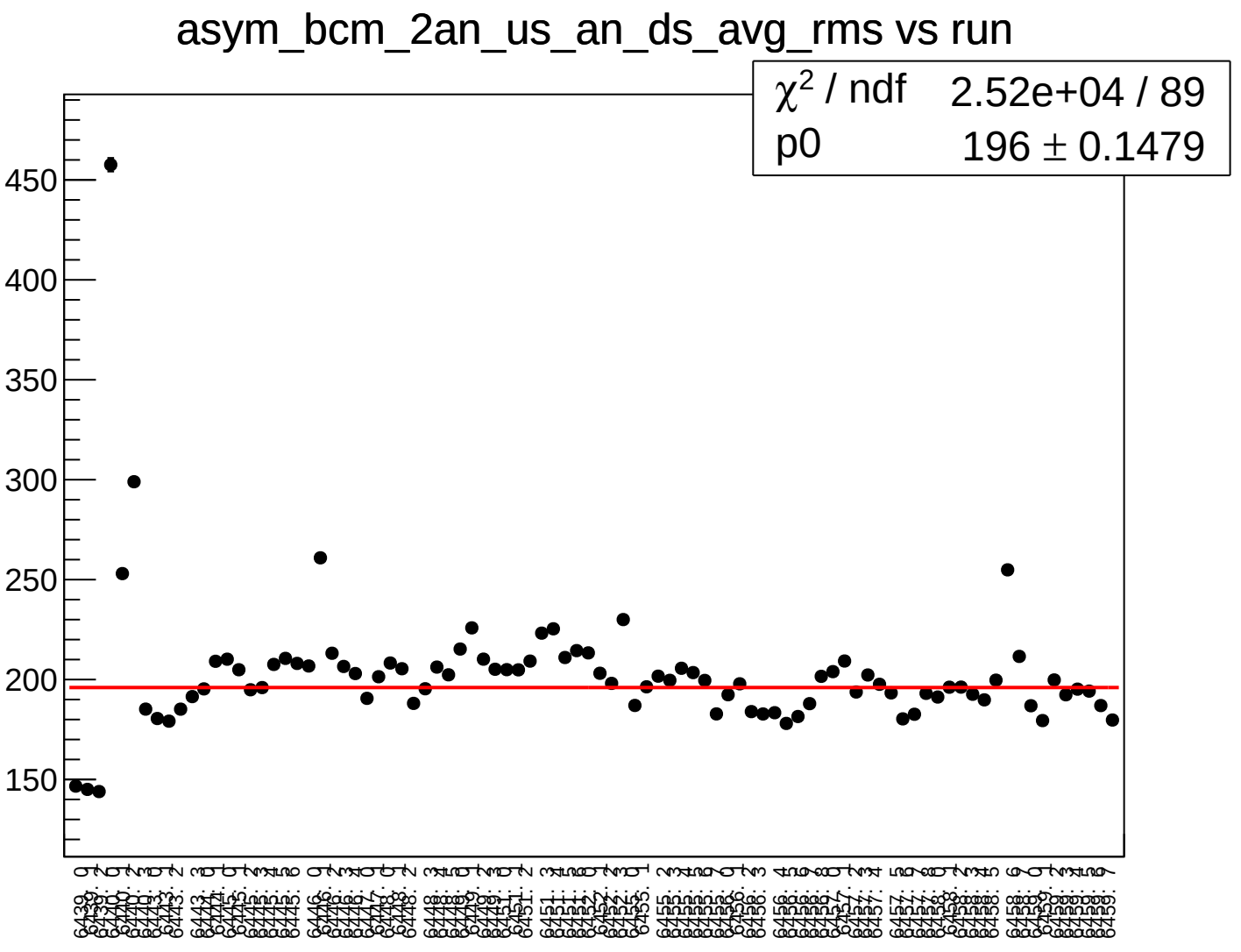

asym_bpm1i06WS_mean vs run
χ² / ndf 3363 / 89
p0 −8824 ± 131
pull
Entries 90
Mean 2112
Std Dev 0

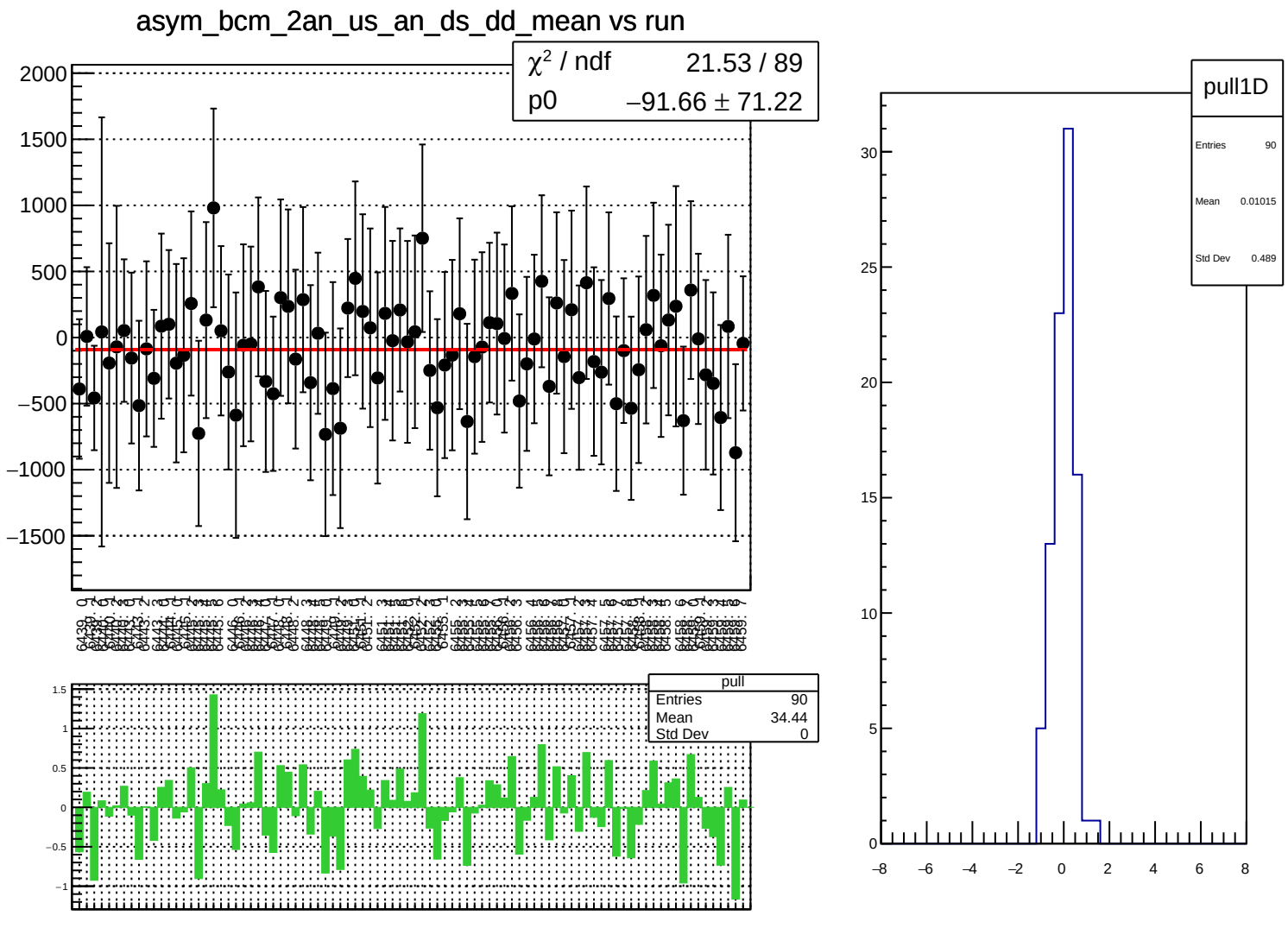

pull1D
Entries 90
Mean −0.8033
Std Dev 4.314

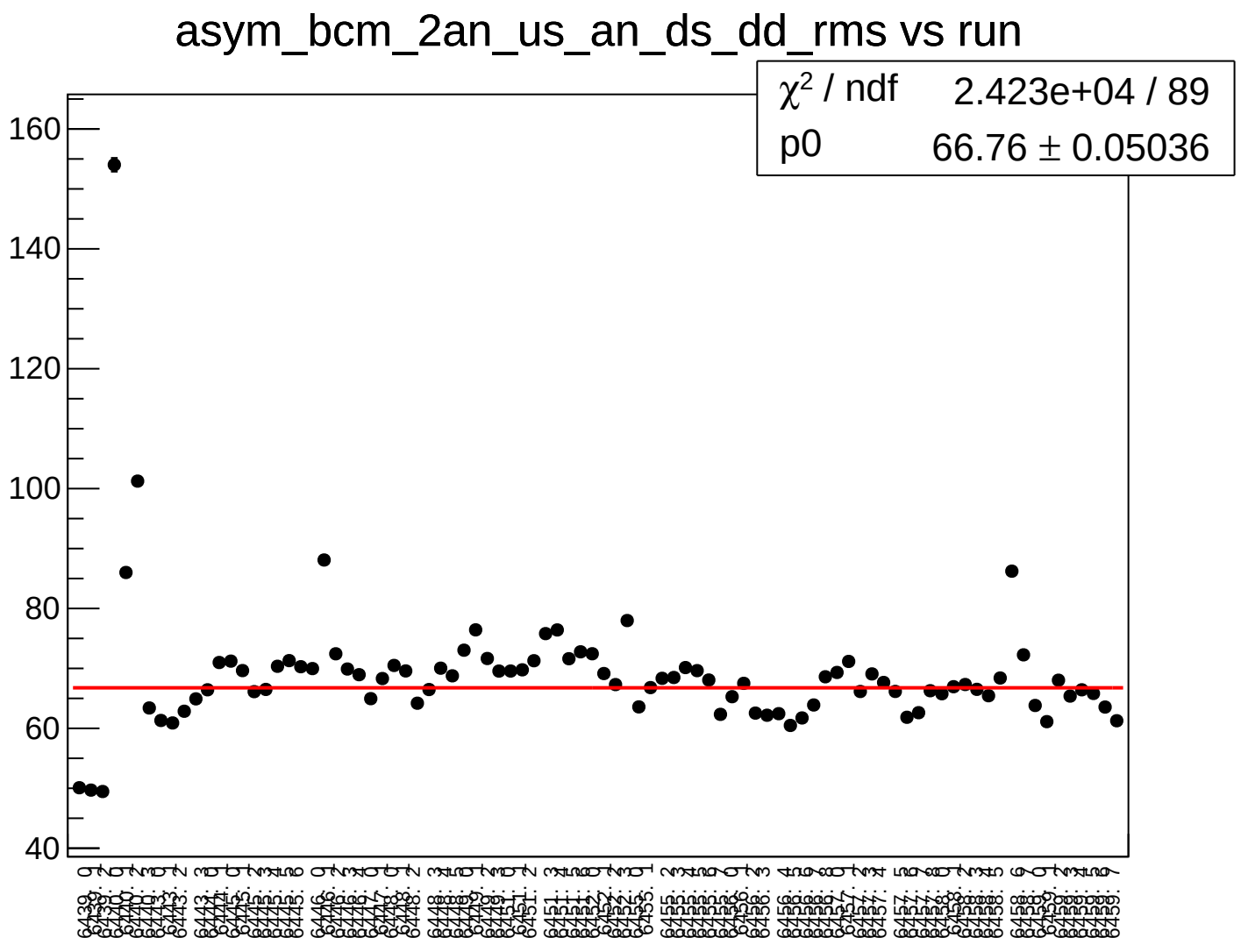

asym_bpm1i06WS_rms vs run
χ^2 / ndf 6.192e+04 / 89
p0 121.5 ± 0.09267
500
450
400
350
300
250
200
150
100

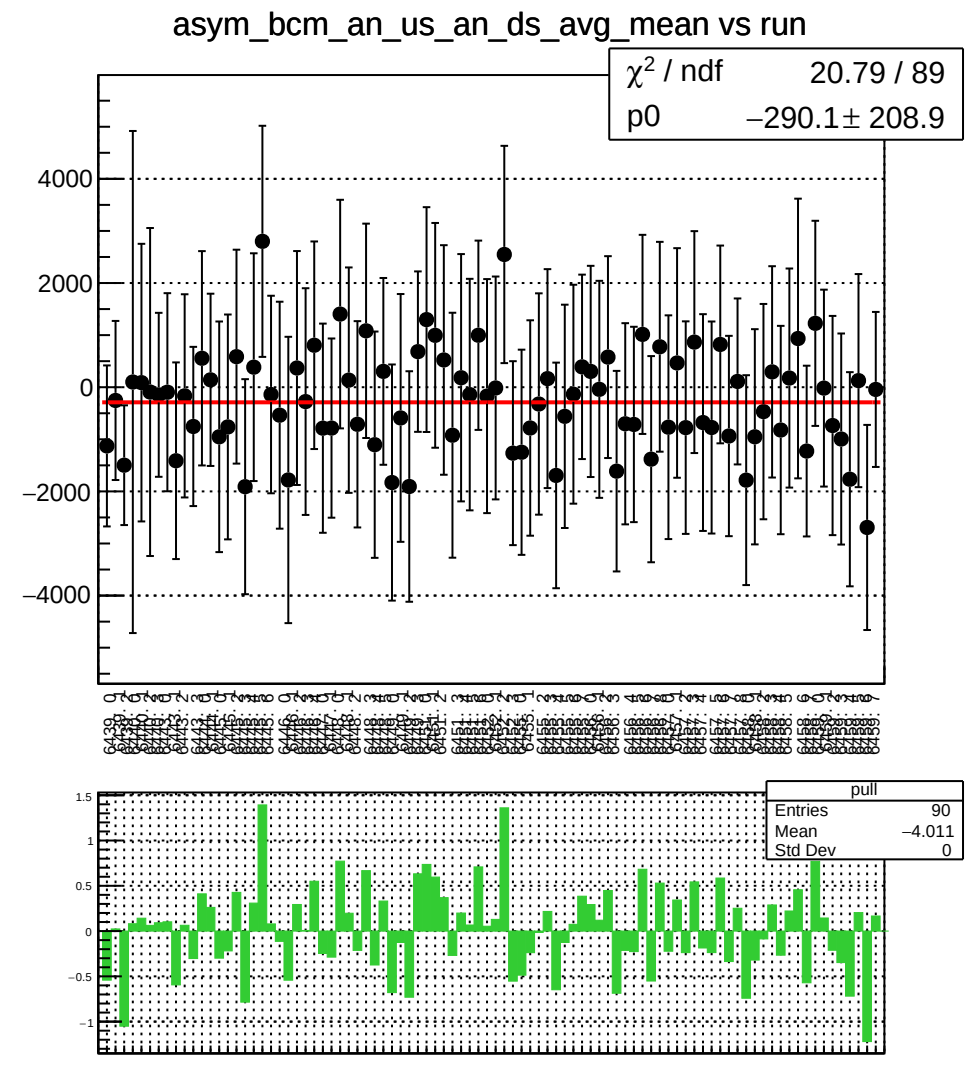

asym_bcm_2an_us_an_ds_avg_mean vs run
χ² / ndf 20.73 / 89
p0 −288.5 ± 209.1
6000
4000
2000
0
−2000
−4000
pull
Entries 90
Mean 0.1336
Std Dev 0
1.5
1
0.5
0
−0.5
−1

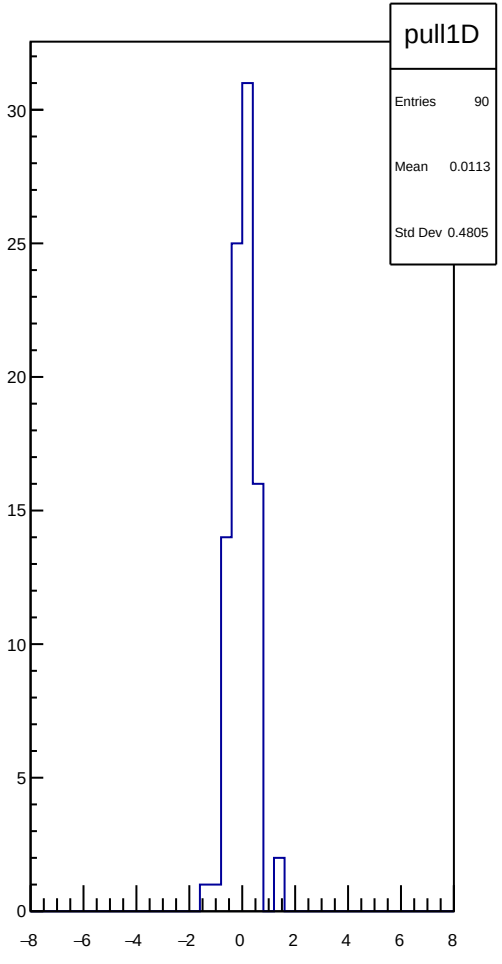

pull1D
Entries 90
Mean 0.01121
Std Dev 0.4798
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

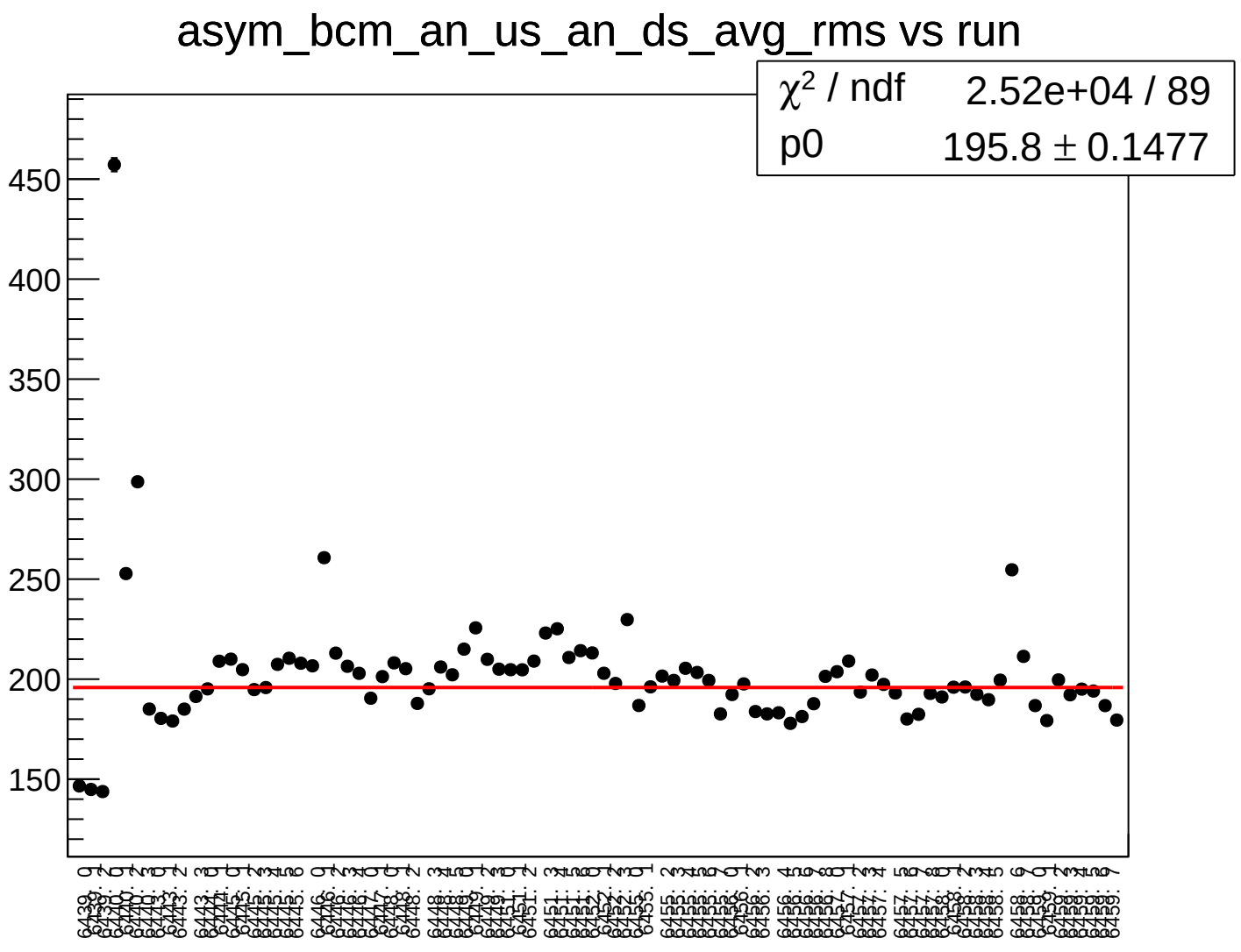

asym_bcm_2an_us_an_ds_avg_rms vs run
χ² / ndf 2.52e+04 / 89
p0 196 ± 0.1479
450
400
350
300
250
200
150

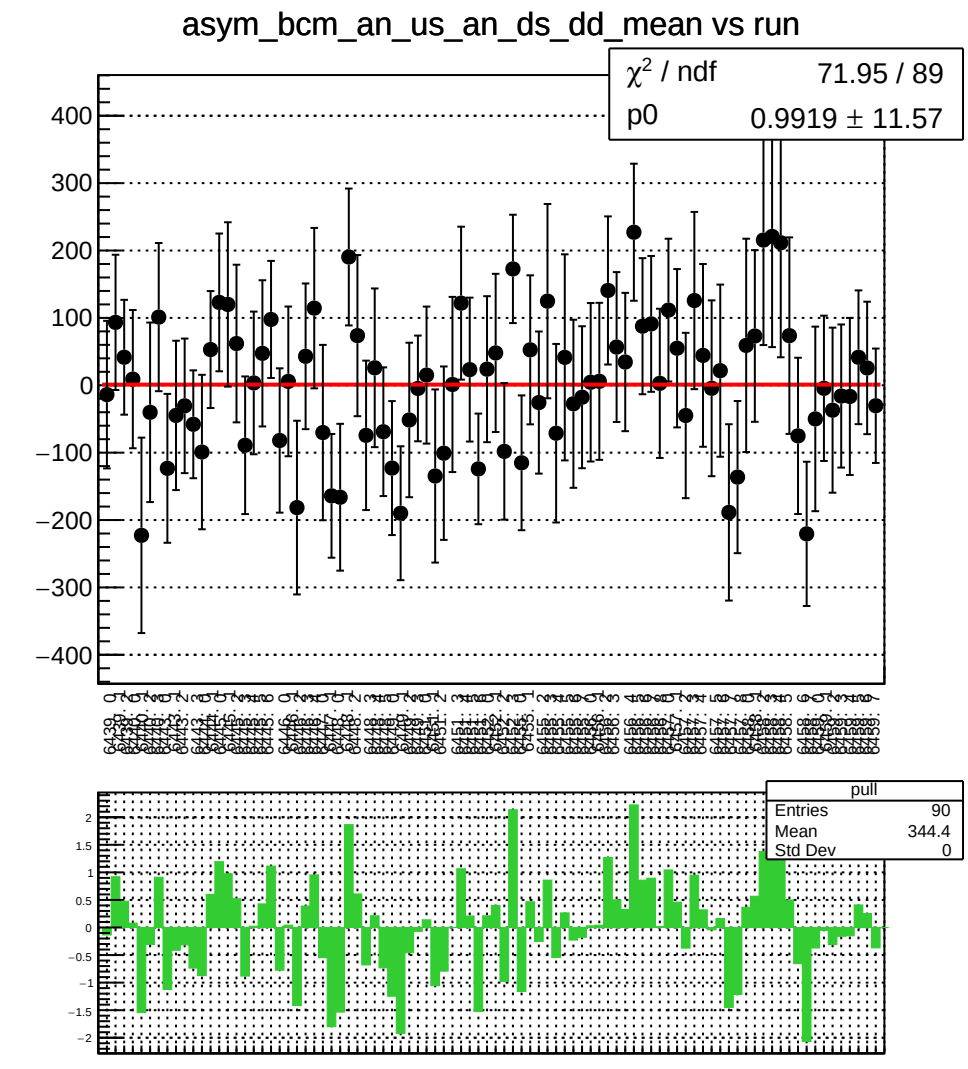

asym_bcm_2an_us_an_ds_dd_mean vs run
χ² / ndf 21.53 / 89
p0 −91.66 ± 71.22
pull
Entries 90
Mean 34.44
Std Dev 0
pull1D
Entries 90
Mean 0.01015
Std Dev 0.489

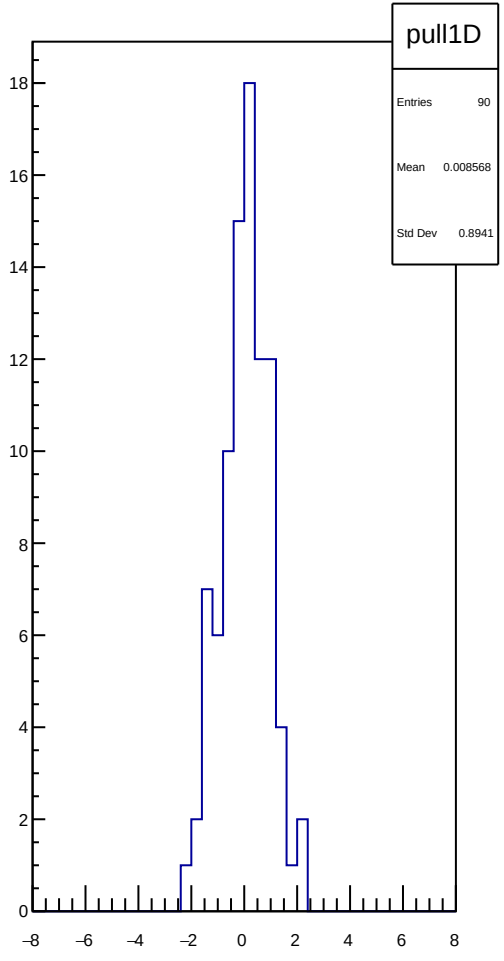

asym_bcm_2an_us_an_ds_dd_rms vs run
χ² / ndf 2.423e+04 / 89
p0 66.76 ± 0.05036
160
140
120
100
80
60
40

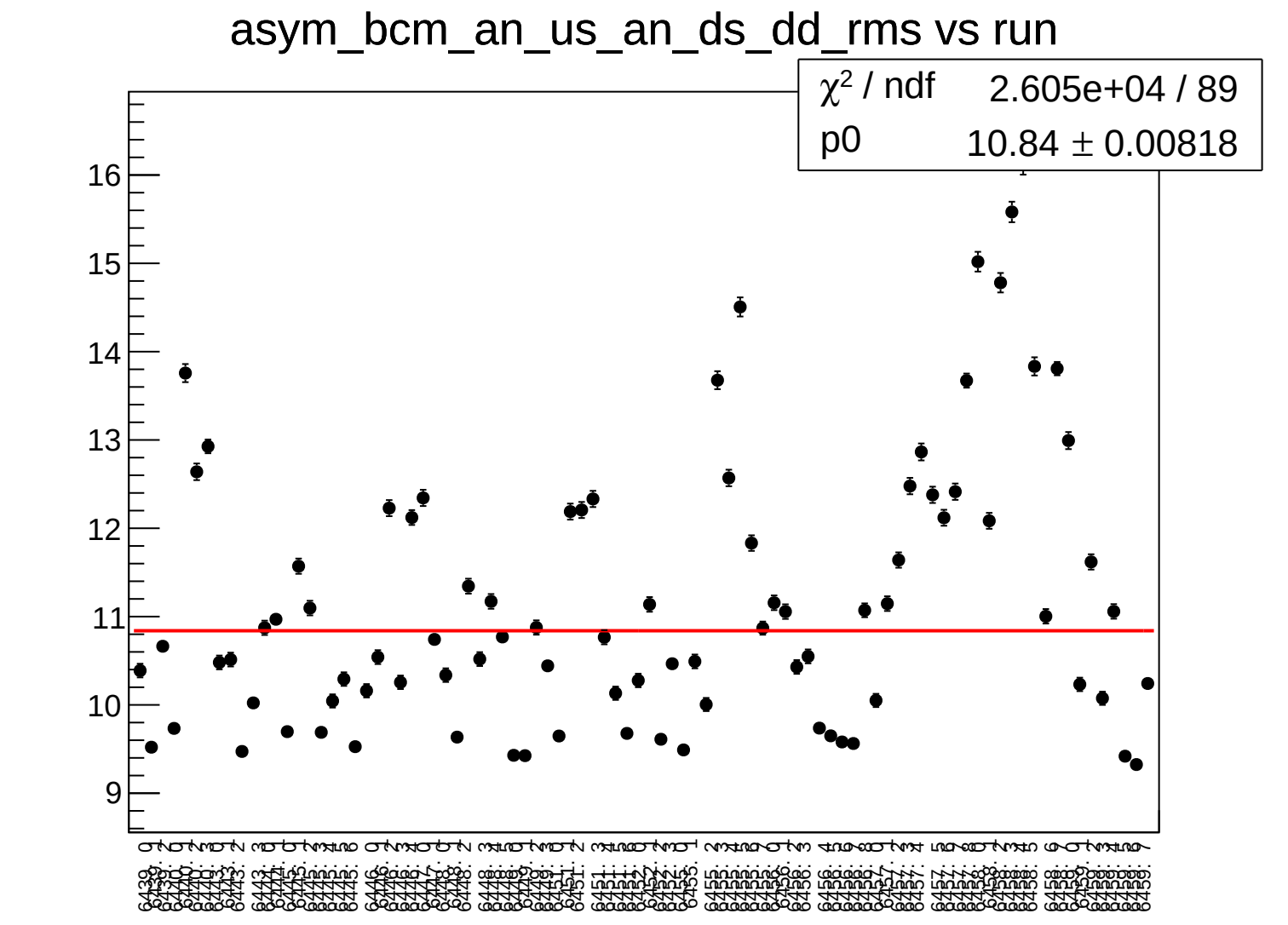

asym_bcm_an_us_an_ds_avg_mean vs run
χ² / ndf 20.79 / 89
p0 −290.1± 208.9
4000
2000
0
−2000
−4000
pull
Entries 90
Mean −4.011
Std Dev 0
1.5
1
0.5
0
−0.5
−1

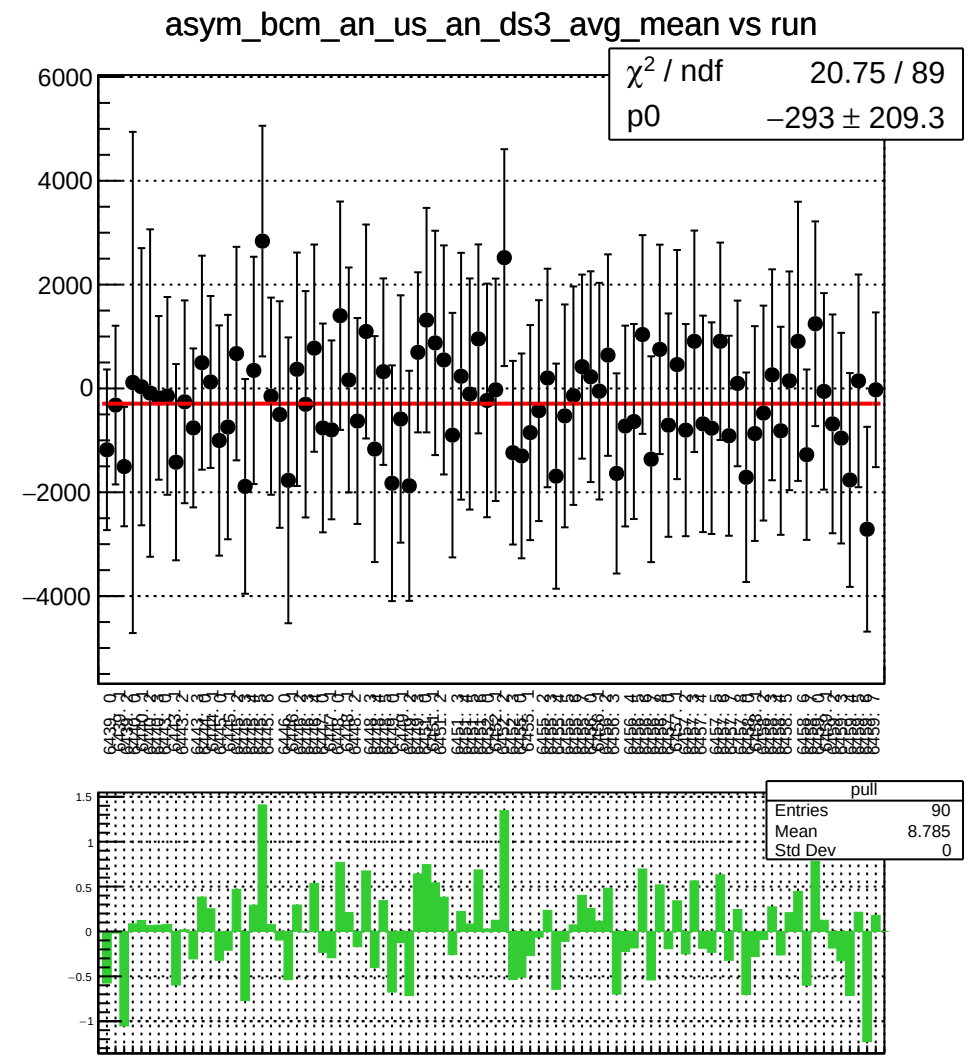

pull1D
Entries 90
Mean 0.0113
Std Dev 0.4805
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

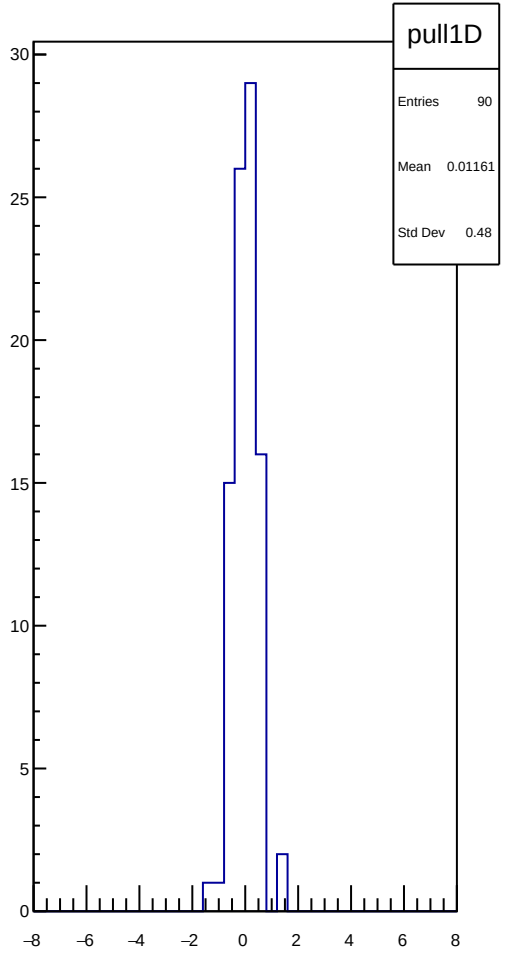

asym_bcm_an_us_an_ds_avg_rms vs run
χ² / ndf 2.52e+04 / 89
p0 195.8 ± 0.1477
450
400
350
300
250
200
150

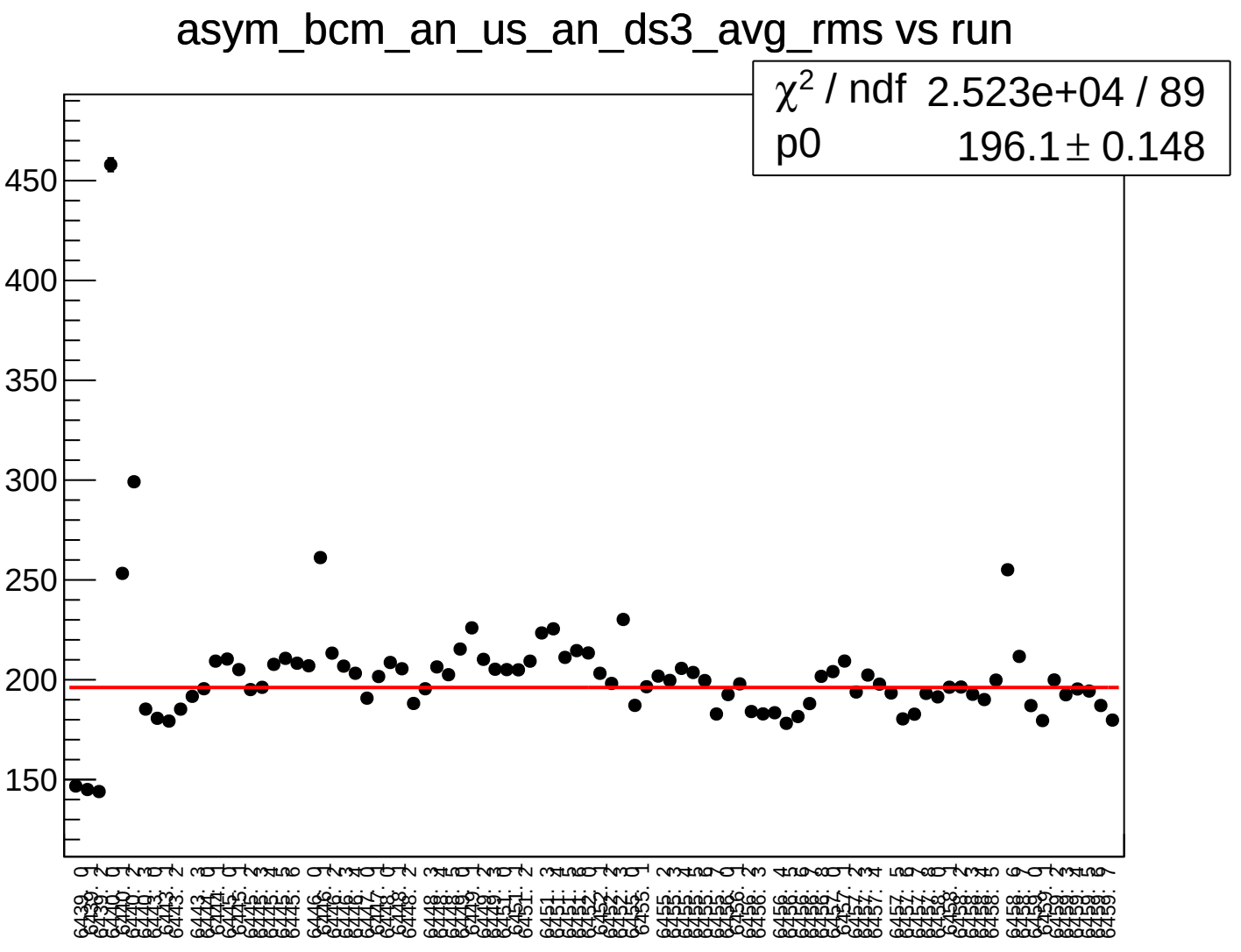

asym_bcm_an_us_an_ds_dd_mean vs run
χ² / ndf 71.95 / 89
p0 0.9919 ± 11.57
pull
Entries 90
Mean 344.4
Std Dev 0

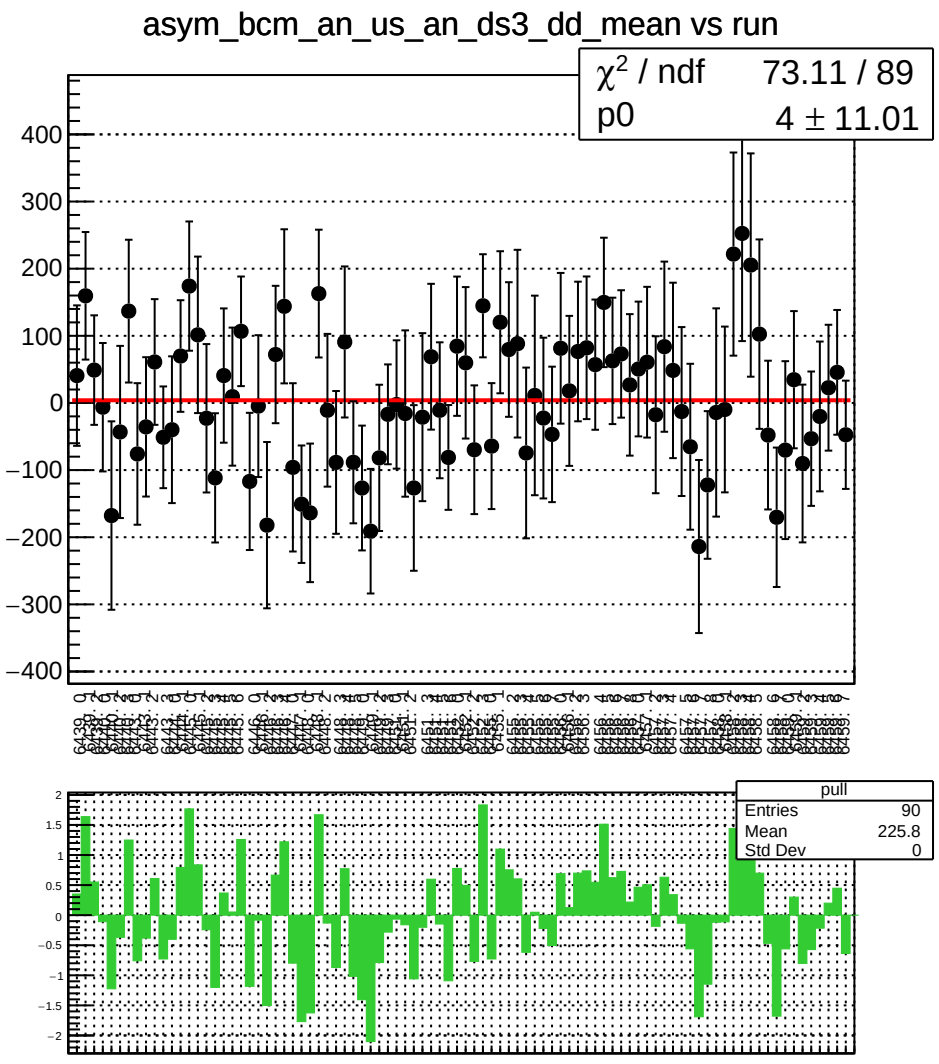

pull1D
Entries 90
Mean 0.008568
Std Dev 0.8941

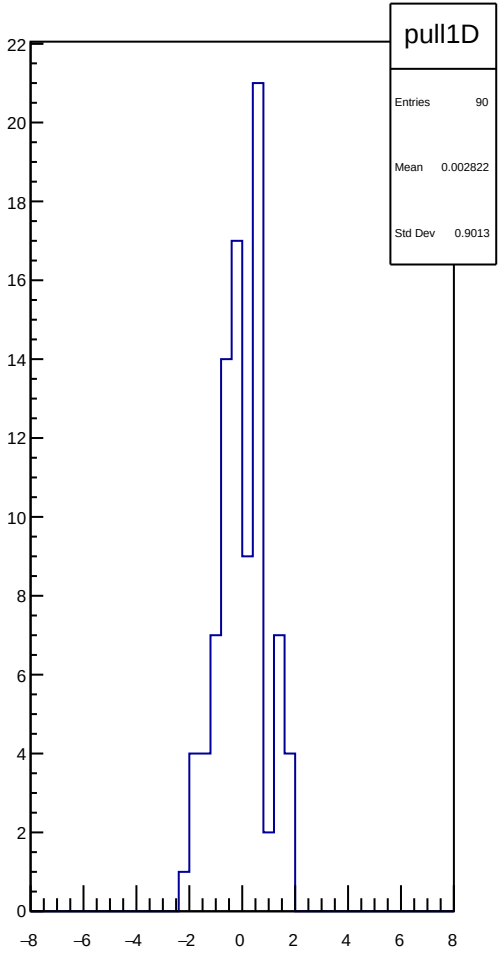

asym_bcm_an_us_an_ds_dd_rms vs run
χ² / ndf 2.605e+04 / 89
p0 10.84 ± 0.00818
16
15
14
13
12
11
10
9

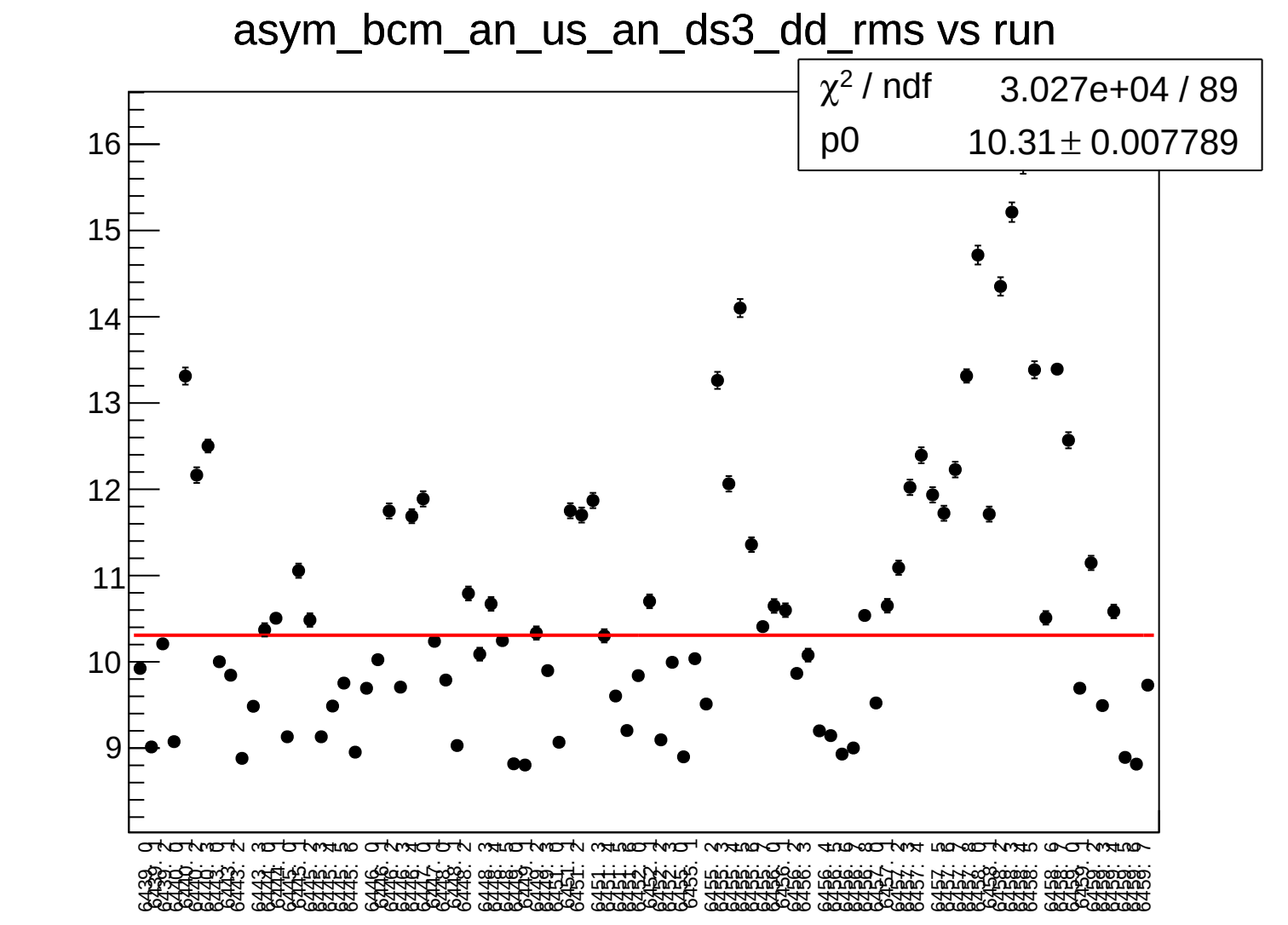

asym_bcm_an_us_an_ds3_avg_mean vs run
χ² / ndf 20.75 / 89
p0 −293 ± 209.3
6000
4000
2000
0
−2000
−4000
pull
Entries 90
Mean 8.785
Std Dev 0
1.5
1
0.5
0
−0.5
−1

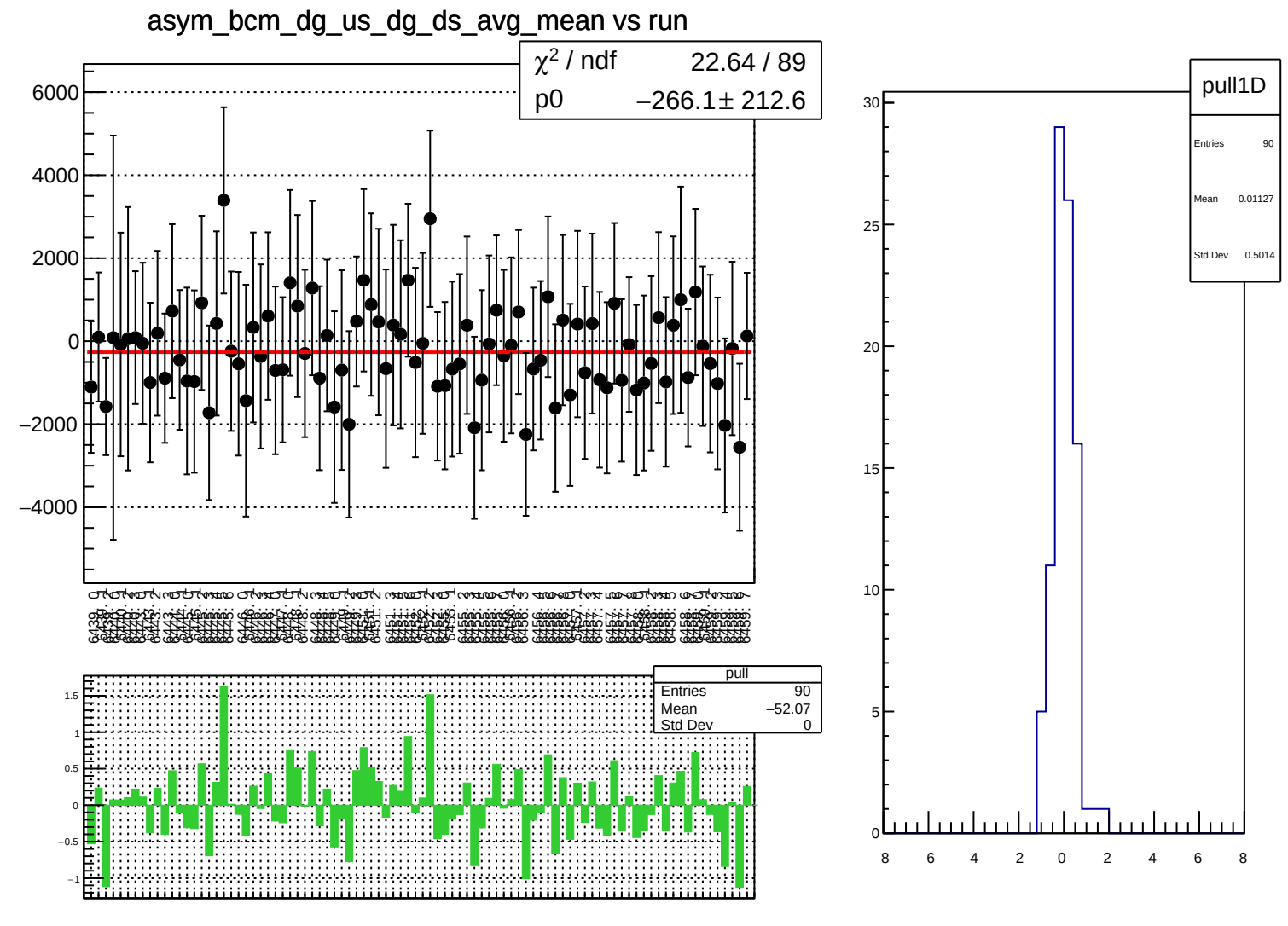

pull1D
Entries 90
Mean 0.01161
Std Dev 0.48
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

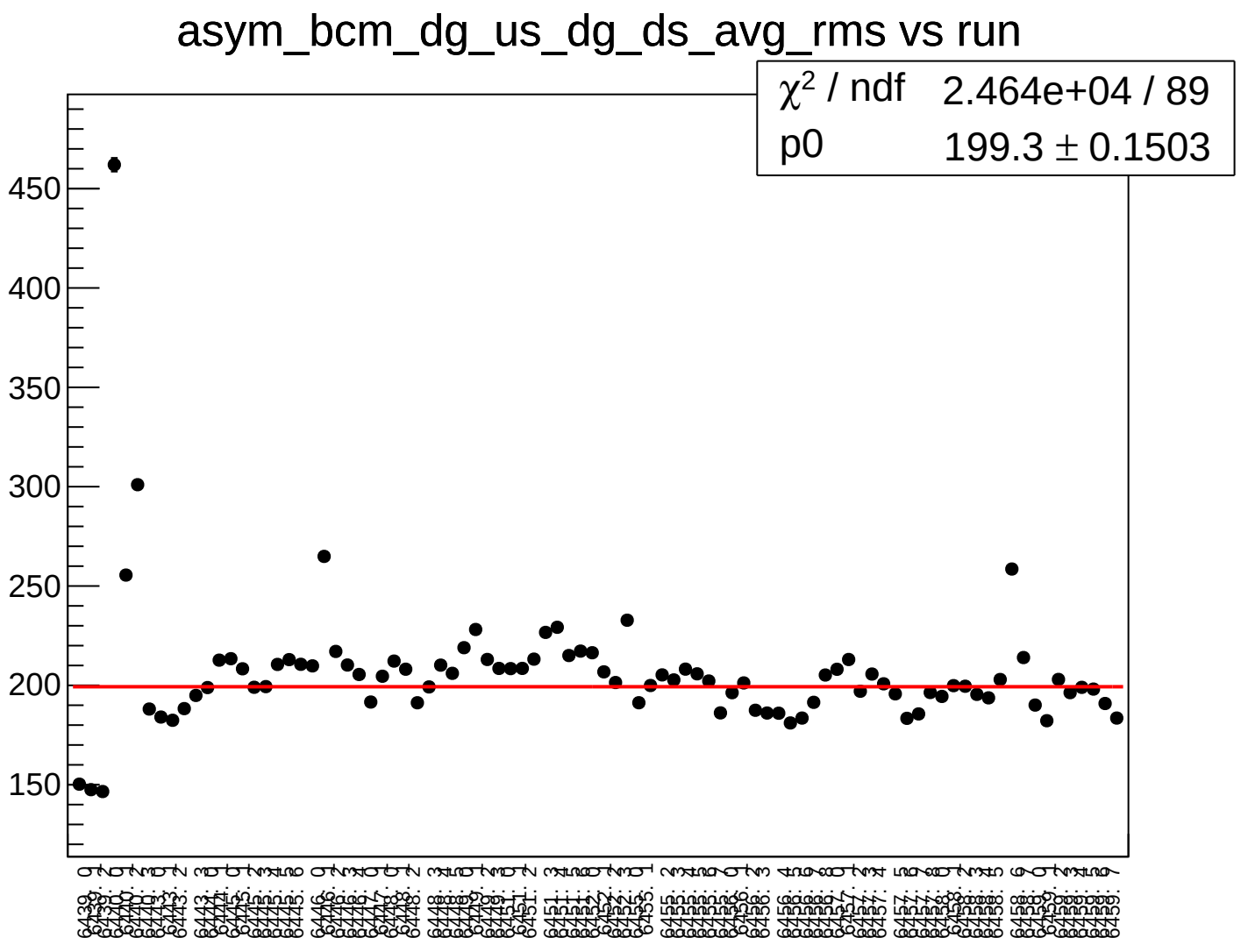

asym_bcm_an_us_an_ds3_avg_rms vs run
χ^2 / ndf 2.523e+04 / 89
p0 196.1 ± 0.148
450
400
350
300
250
200
150

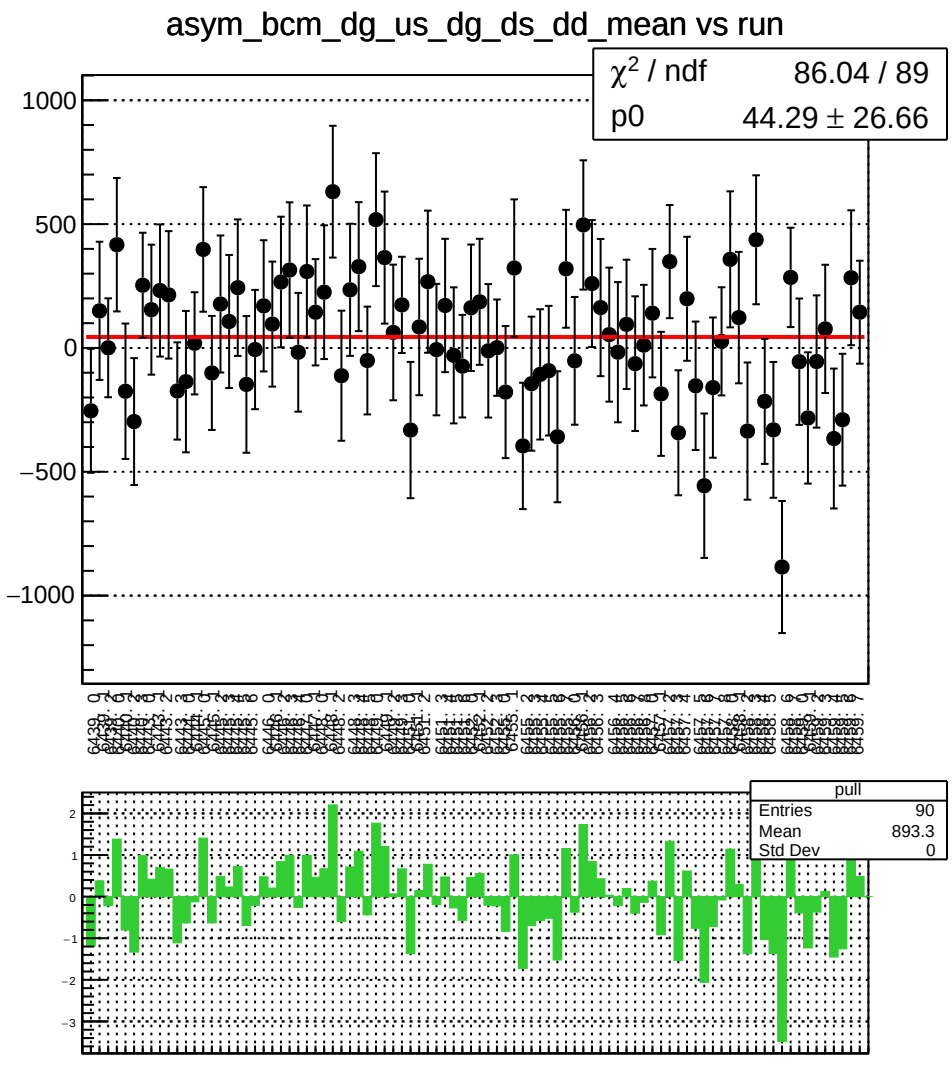

asym_bcm_an_us_an_ds3_dd_mean vs run
χ² / ndf 73.11 / 89
p0 4 ± 11.01
pull
Entries 90
Mean 225.8
Std Dev 0

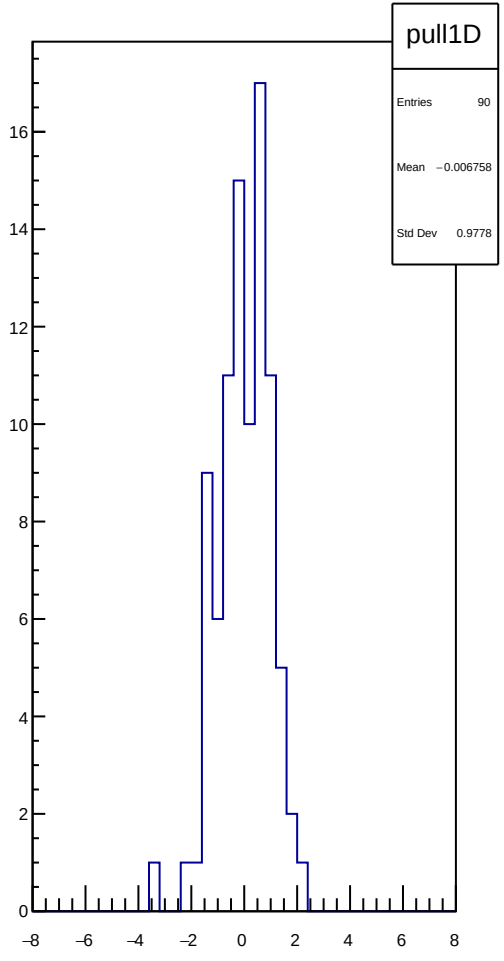

pull1D
Entries 90
Mean 0.002822
Std Dev 0.9013

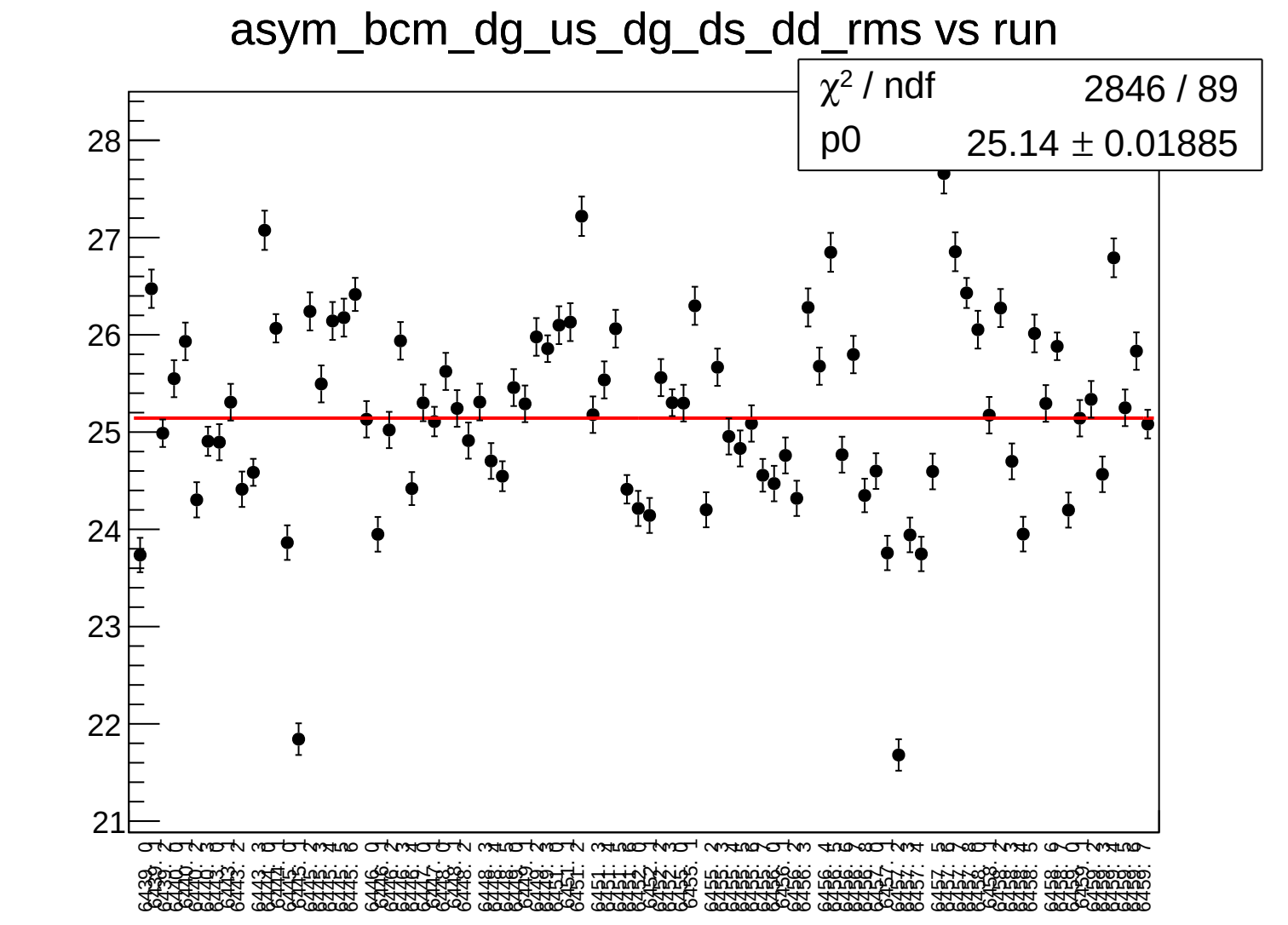

asym_bcm_an_us_an_ds3_dd_rms vs run
χ² / ndf 3.027e+04 / 89
p0 10.31 ± 0.007789
16
15
14
13
12
11
10
9

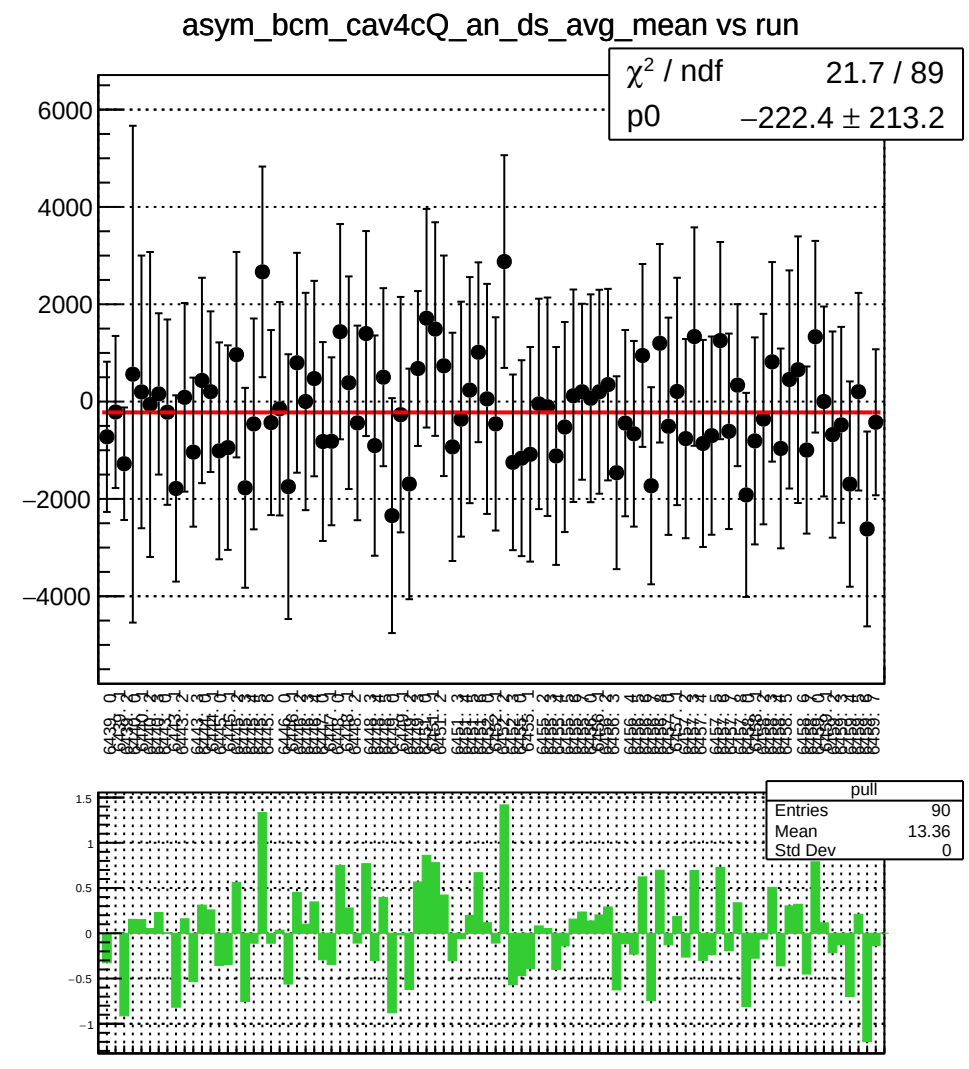

asym_bcm_dg_us_dg_ds_avg_mean vs run
χ² / ndf 22.64 / 89
p0 −266.1± 212.6
6000
4000
2000
0
−2000
−4000
pull
Entries 90
Mean −52.07
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 90
Mean 0.01127
Std Dev 0.5014
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

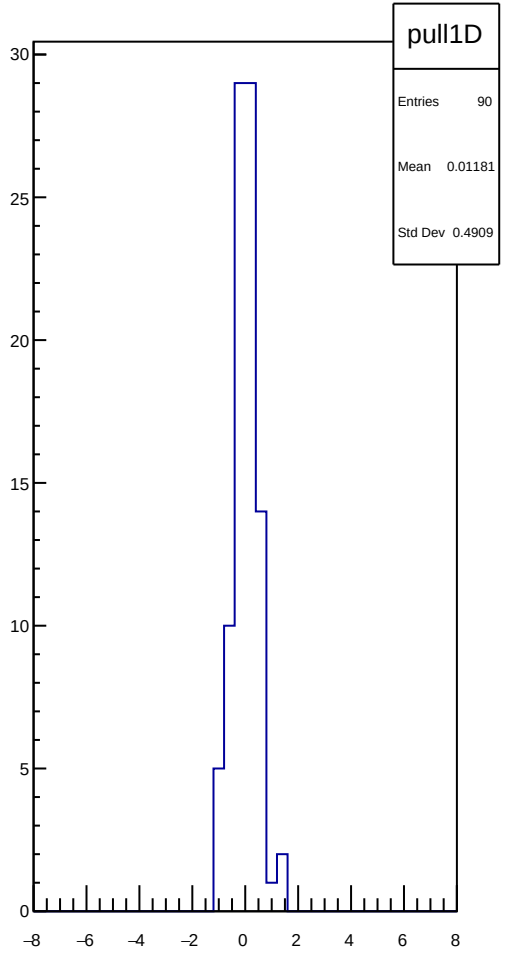

asym_bcm_dg_us_dg_ds_avg_rms vs run
χ² / ndf 2.464e+04 / 89
p0 199.3 ± 0.1503
450
400
350
300
250
200
150

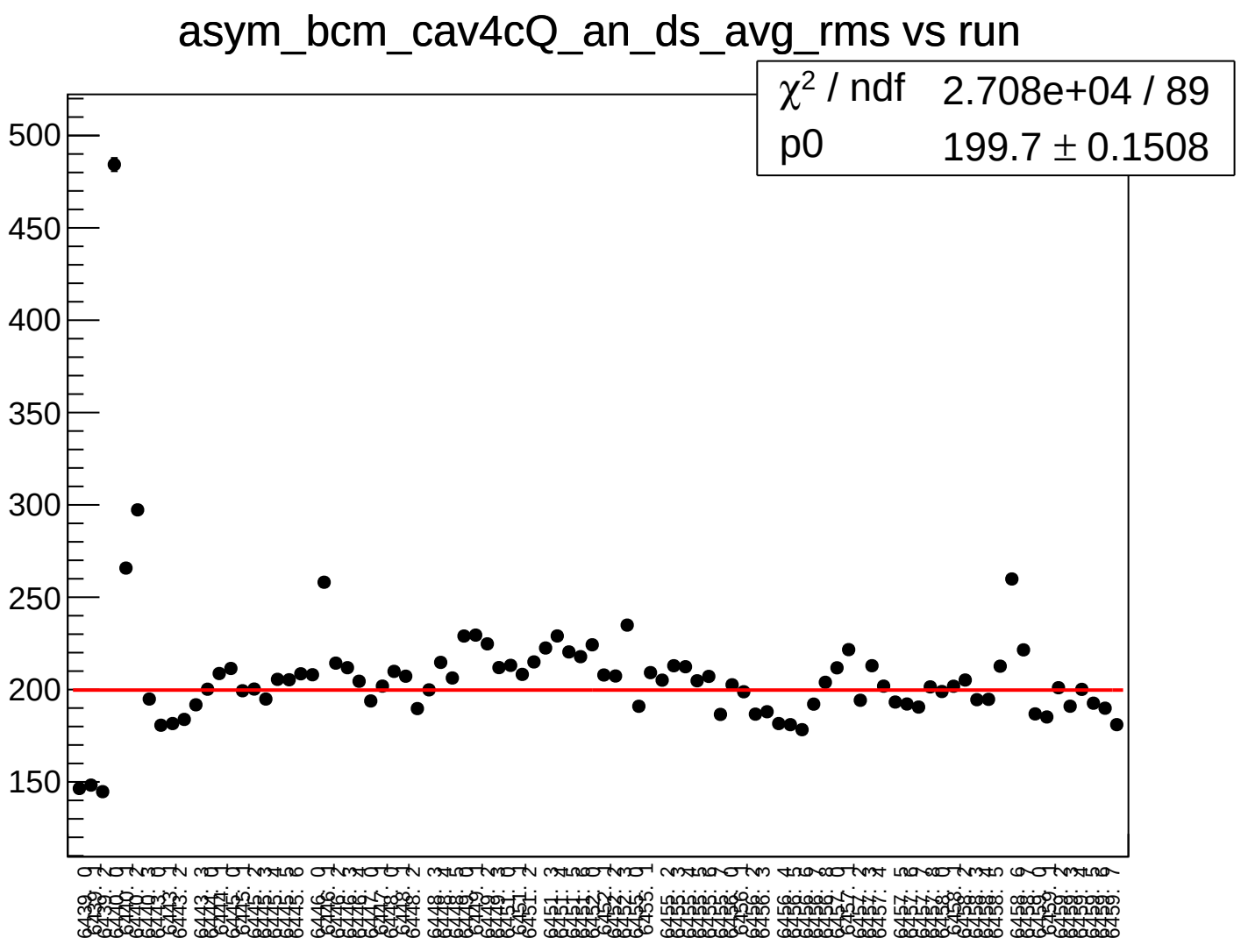

asym_bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 86.04 / 89
p0 44.29 ± 26.66
1000
500
0
−500
−1000
pull
Entries 90
Mean 893.3
Std Dev 0
2
1
0
−1
−2
−3

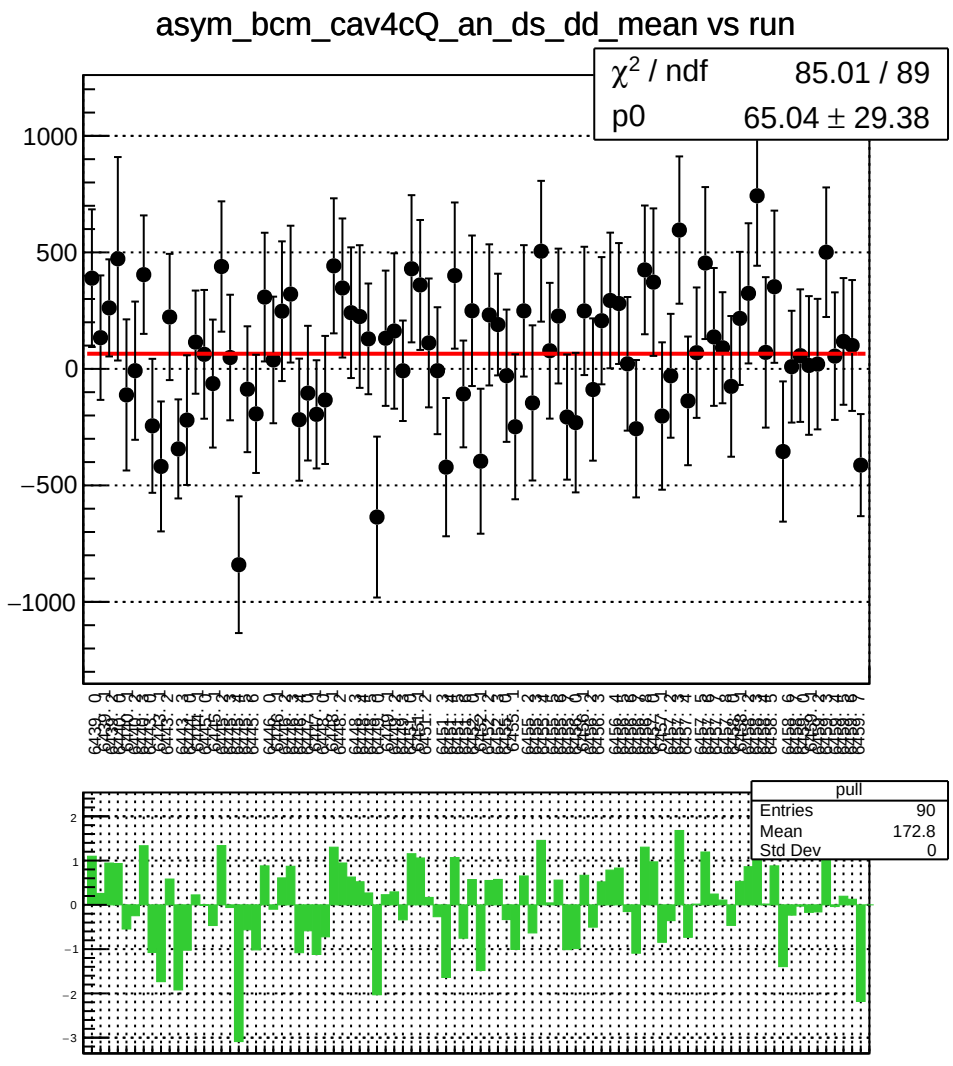

pull1D
Entries 90
Mean −0.006758
Std Dev 0.9778
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

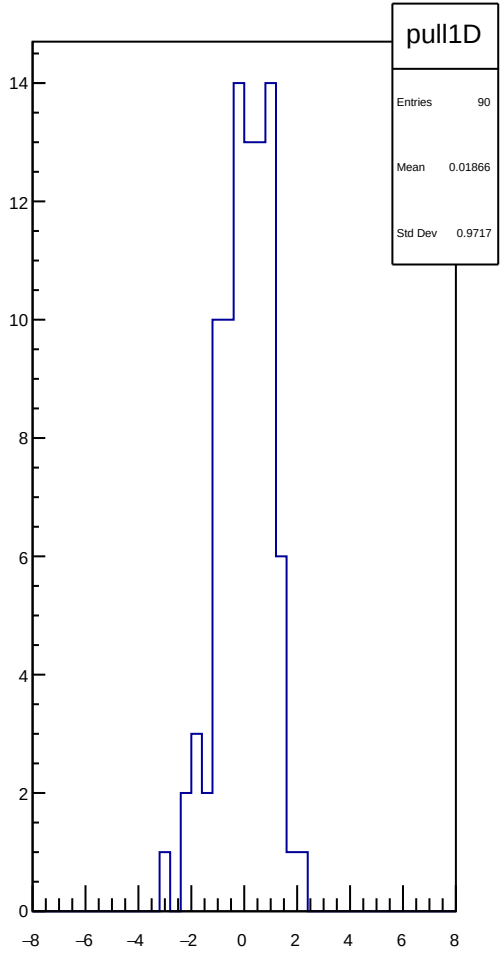

asym_bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 2846 / 89
p0 25.14 ± 0.01885
28
27
26
25
24
23
22
21

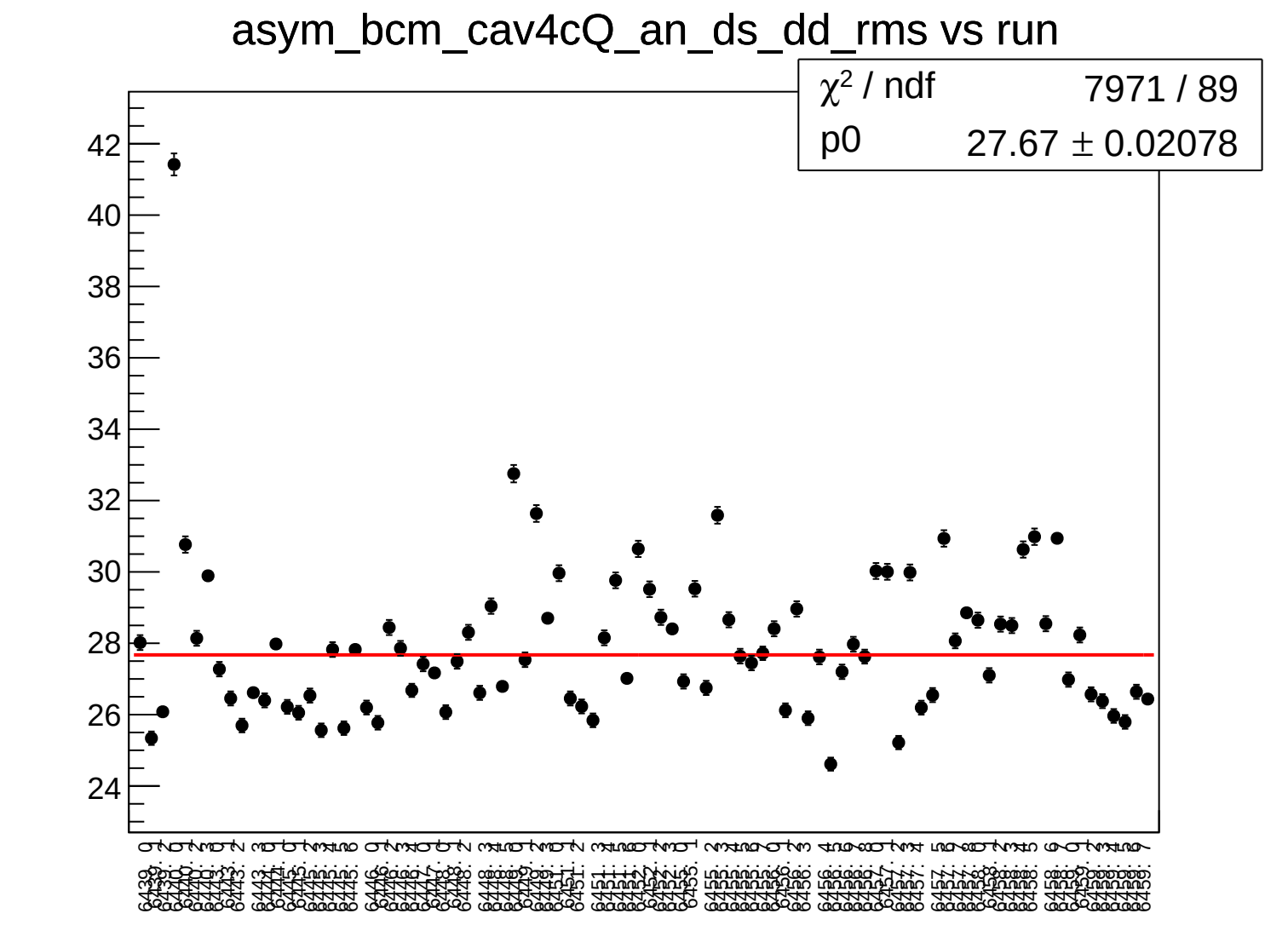

asym_bcm_cav4cQ_an_ds_avg_mean vs run
χ² / ndf 21.7 / 89
p0 −222.4 ± 213.2
6000
4000
2000
0
−2000
−4000
pull
Entries 90
Mean 13.36
Std Dev 0
1.5
1
0.5
0
−0.5
−1

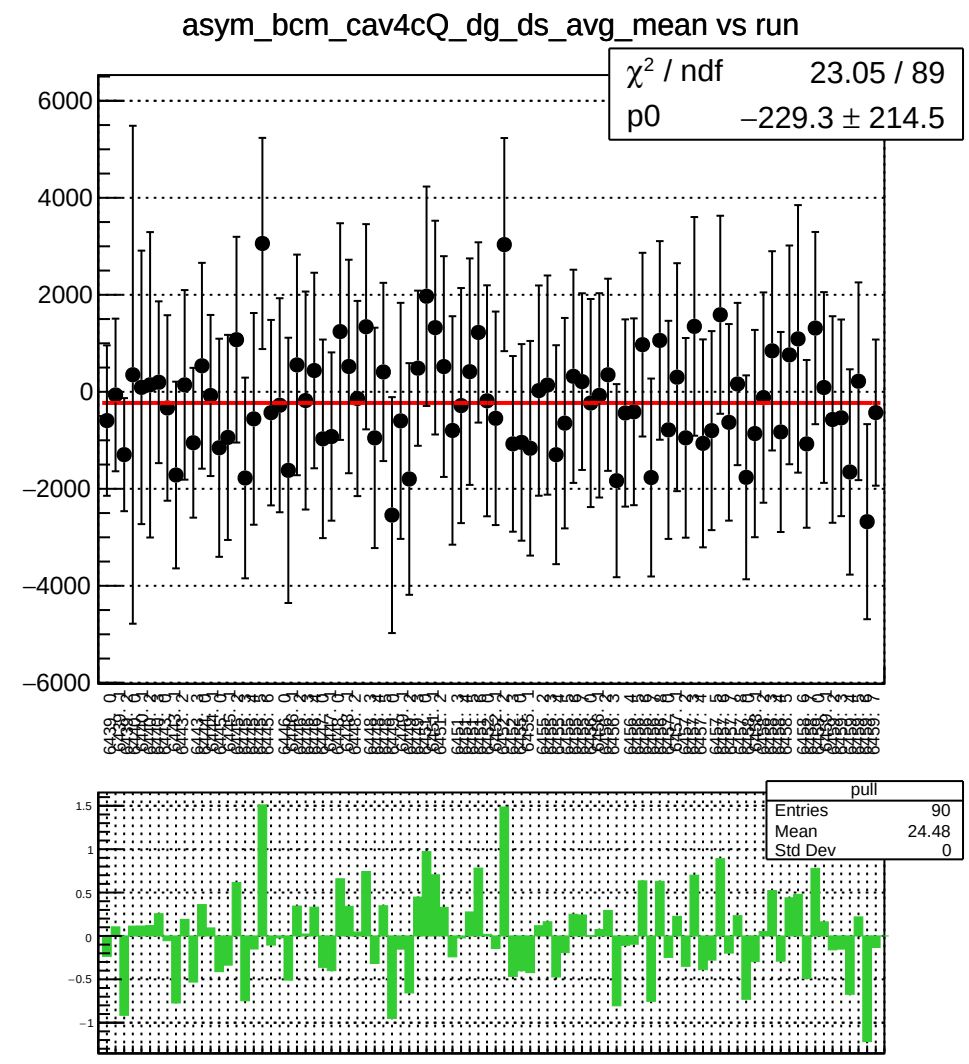

pull1D
Entries 90
Mean 0.01181
Std Dev 0.4909
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

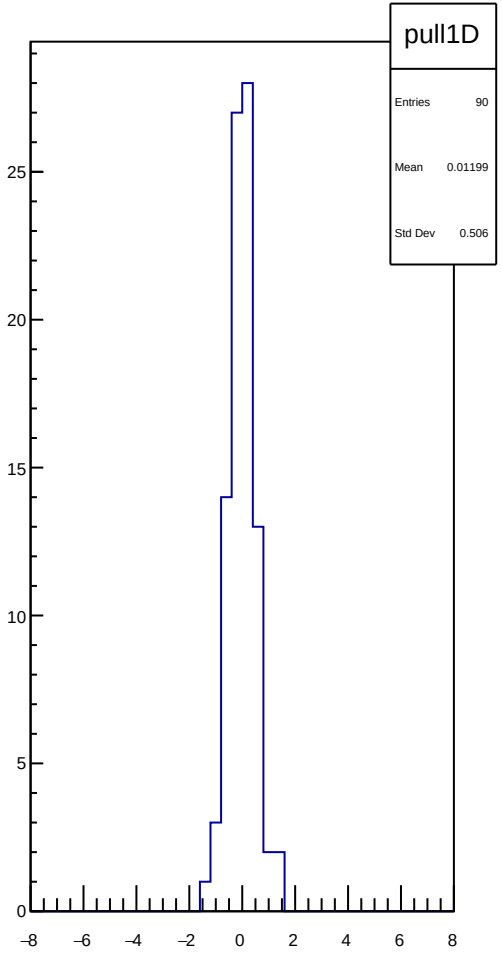

asym_bcm_cav4cQ_an_ds_avg_rms vs run
χ² / ndf 2.708e+04 / 89
p0 199.7 ± 0.1508
500
450
400
350
300
250
200
150

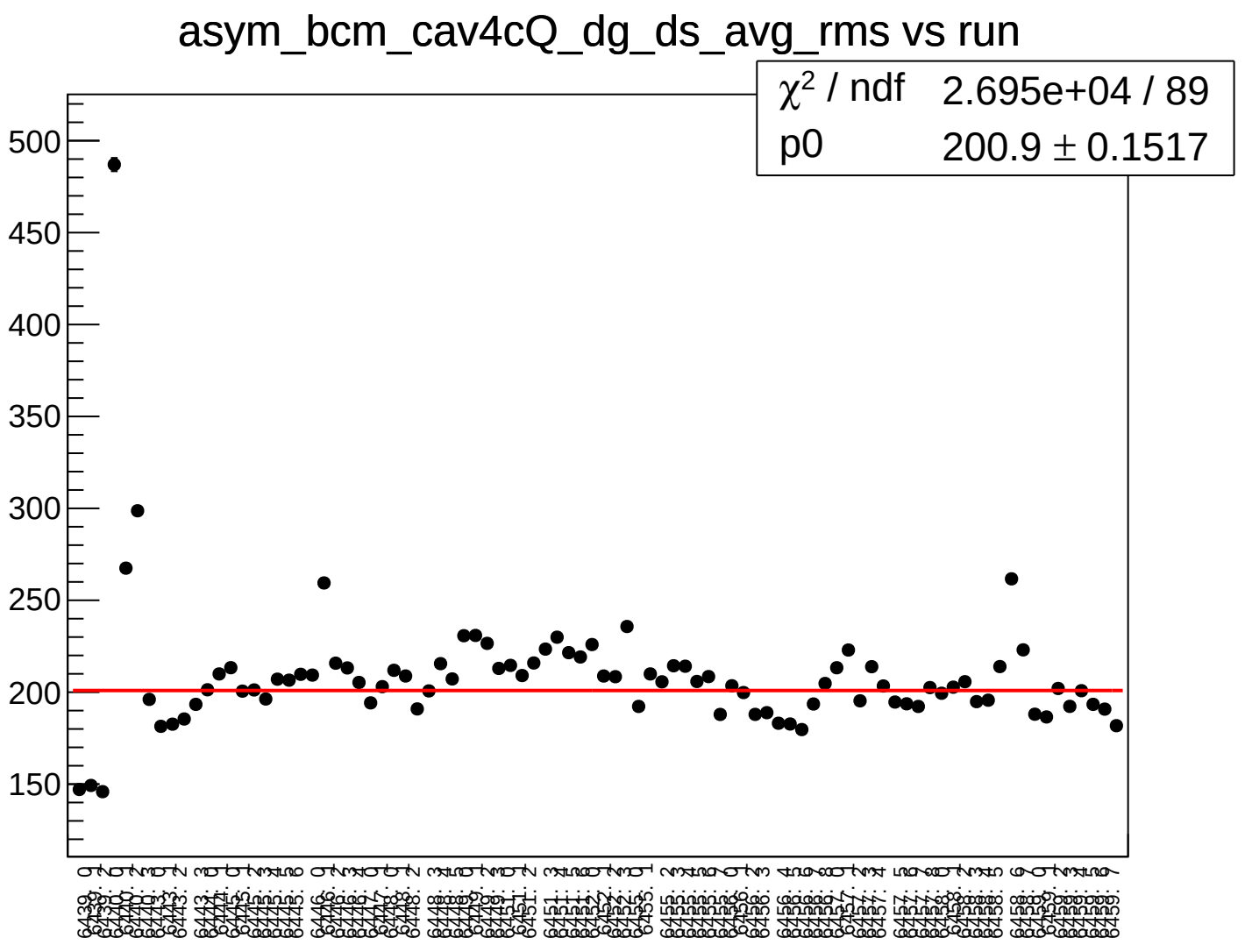

asym_bcm_cav4cQ_an_ds_dd_mean vs run
χ² / ndf 85.01 / 89
p0 65.04 ± 29.38
1000
500
0
−500
−1000
pull
Entries 90
Mean 172.8
Std Dev 0
2
1
0
−1
−2
−3

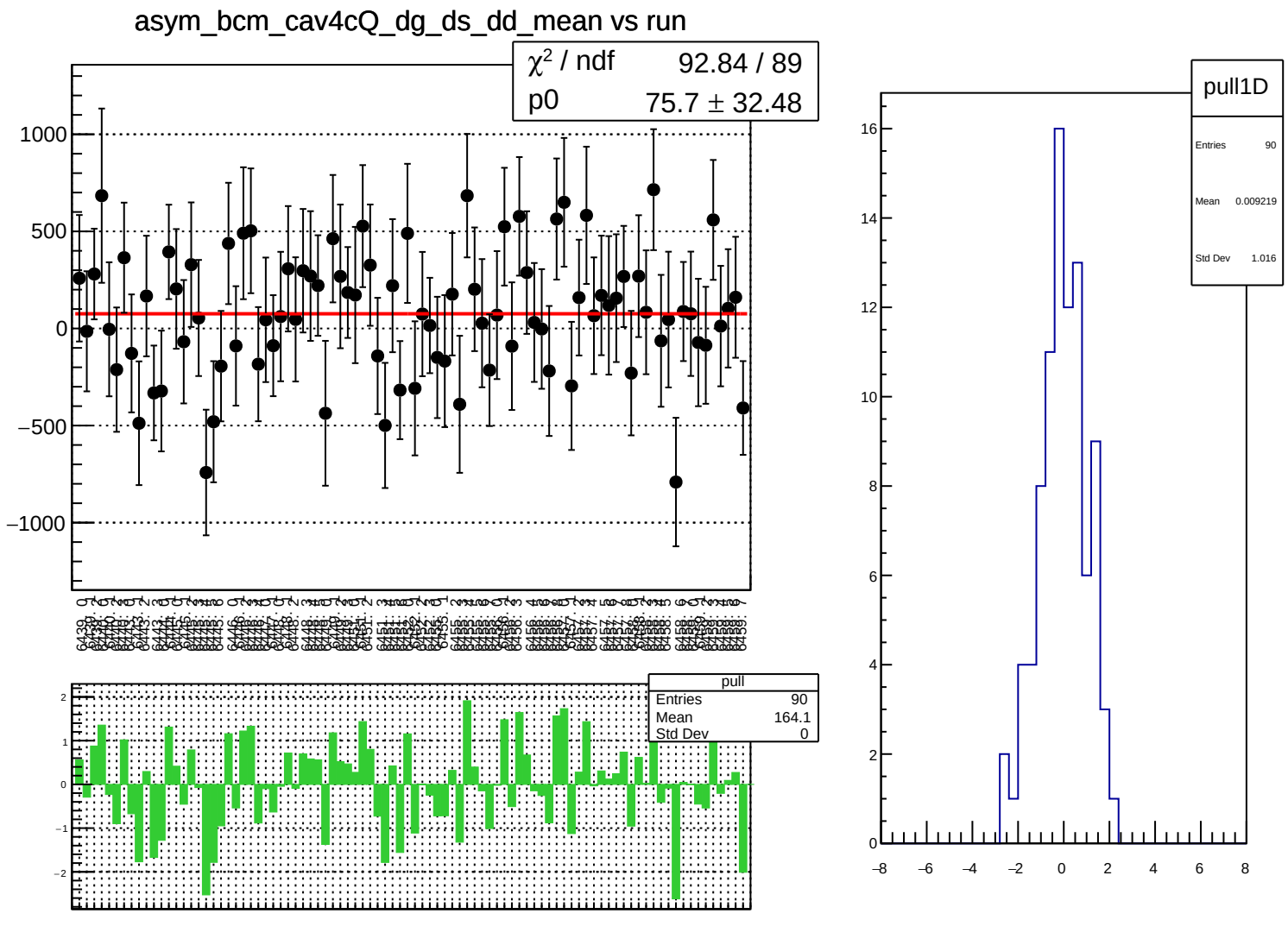

pull1D
Entries 90
Mean 0.01866
Std Dev 0.9717
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

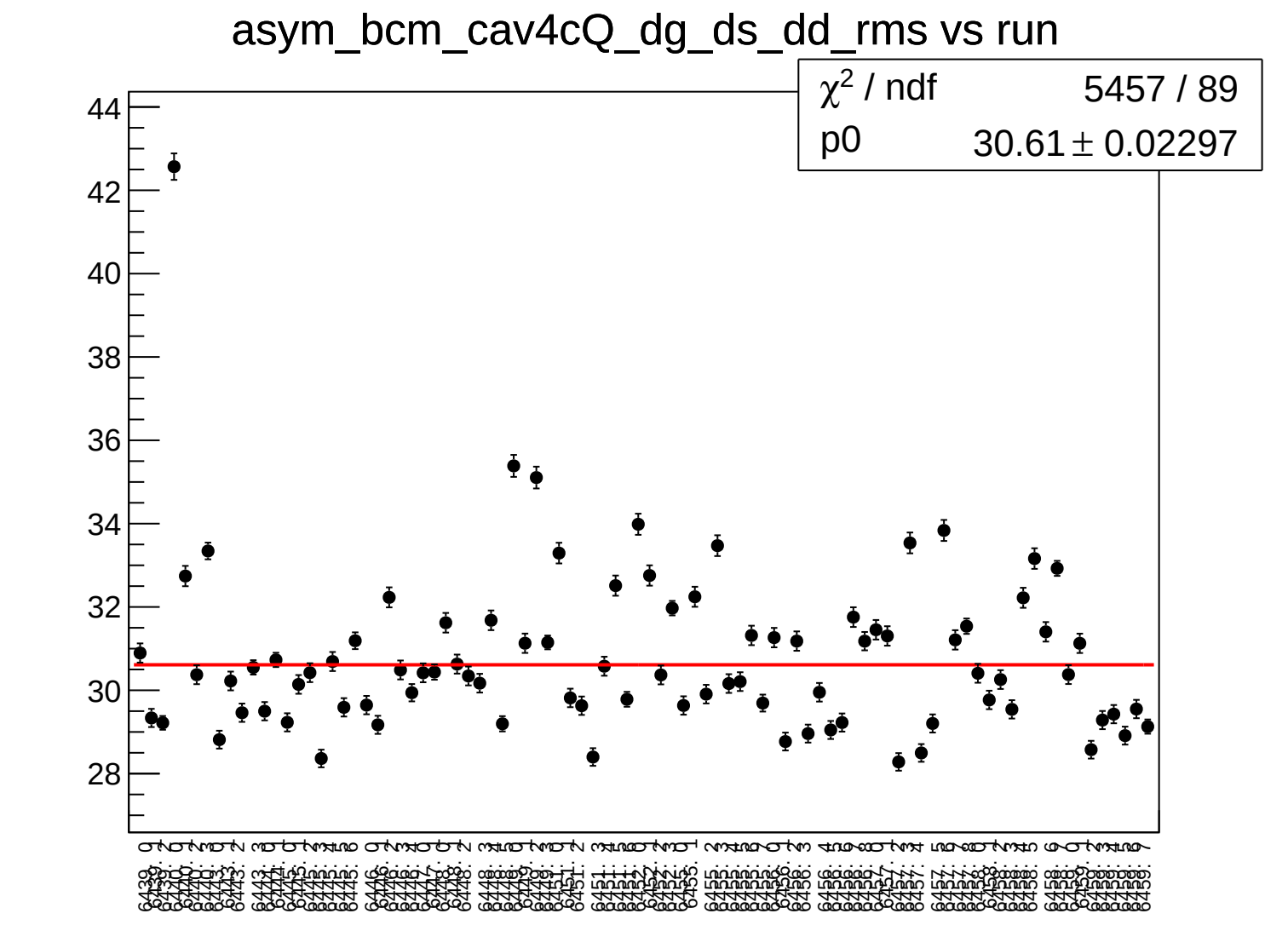

asym_bcm_cav4cQ_an_ds_dd_rms vs run
χ² / ndf 7971 / 89
p0 27.67 ± 0.02078
42
40
38
36
34
32
30
28
26
24

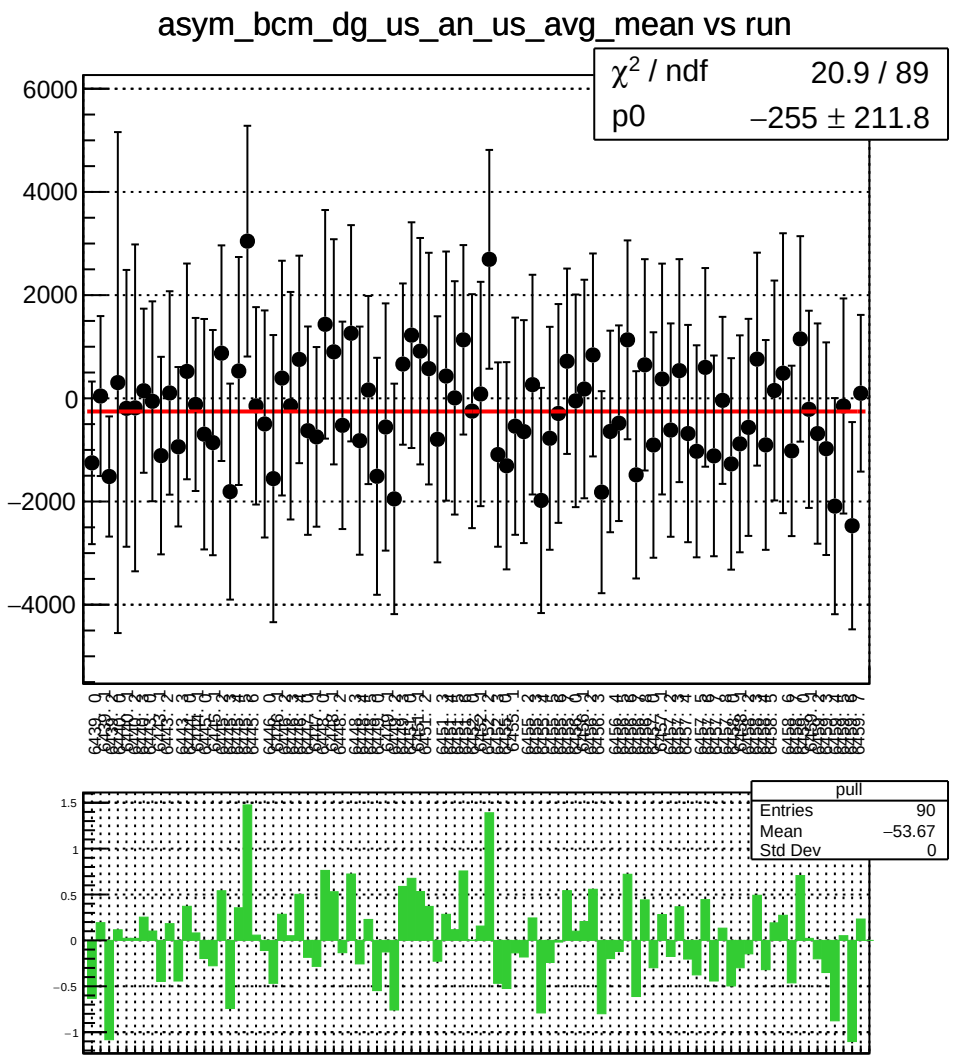

asym_bcm_cav4cQ_dg_ds_avg_mean vs run
χ² / ndf 23.05 / 89
p0 −229.3 ± 214.5
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 90
Mean 24.48
Std Dev 0
1.5
1
0.5
0
−0.5
−1

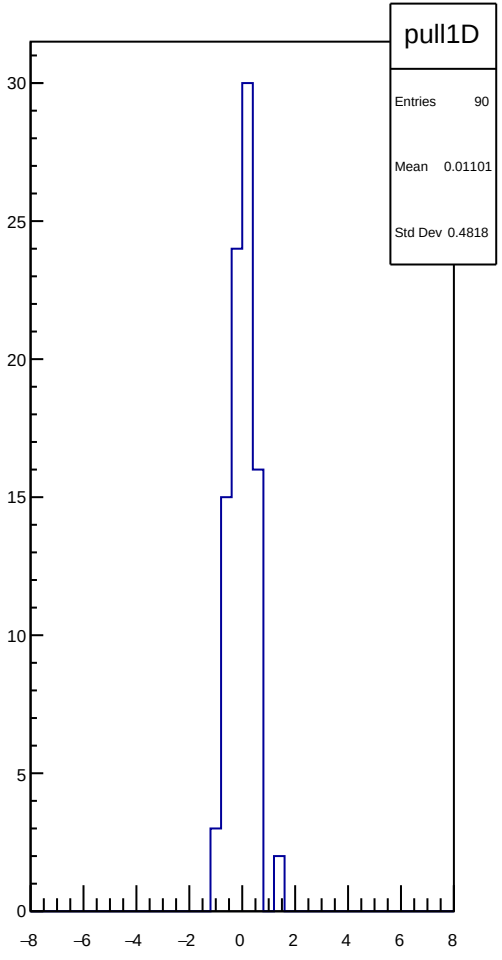

pull1D
Entries 90
Mean 0.01199
Std Dev 0.506
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

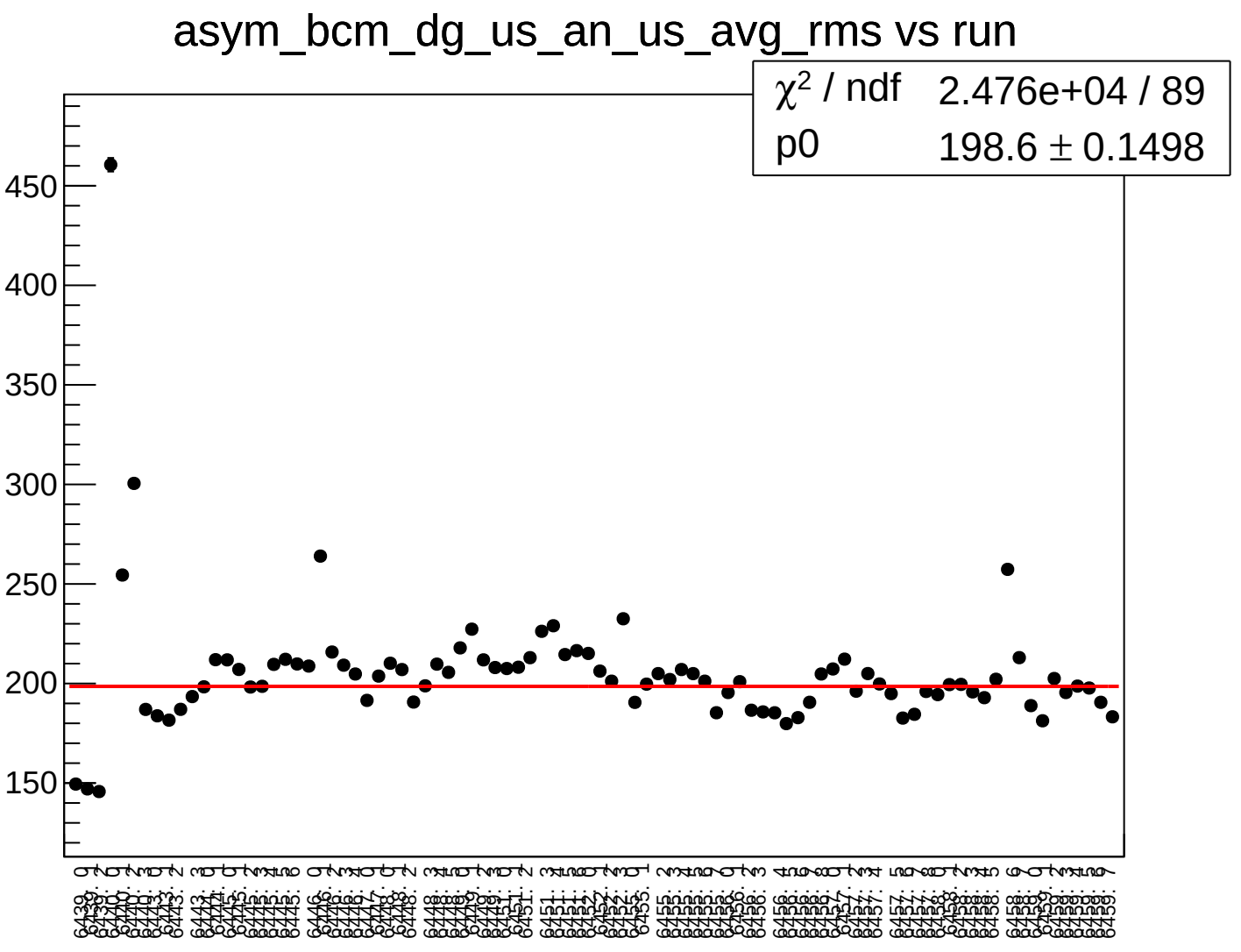

asym_bcm_cav4cQ_dg_ds_avg_rms vs run
χ² / ndf 2.695e+04 / 89
p0 200.9 ± 0.1517
500
450
400
350
300
250
200
150

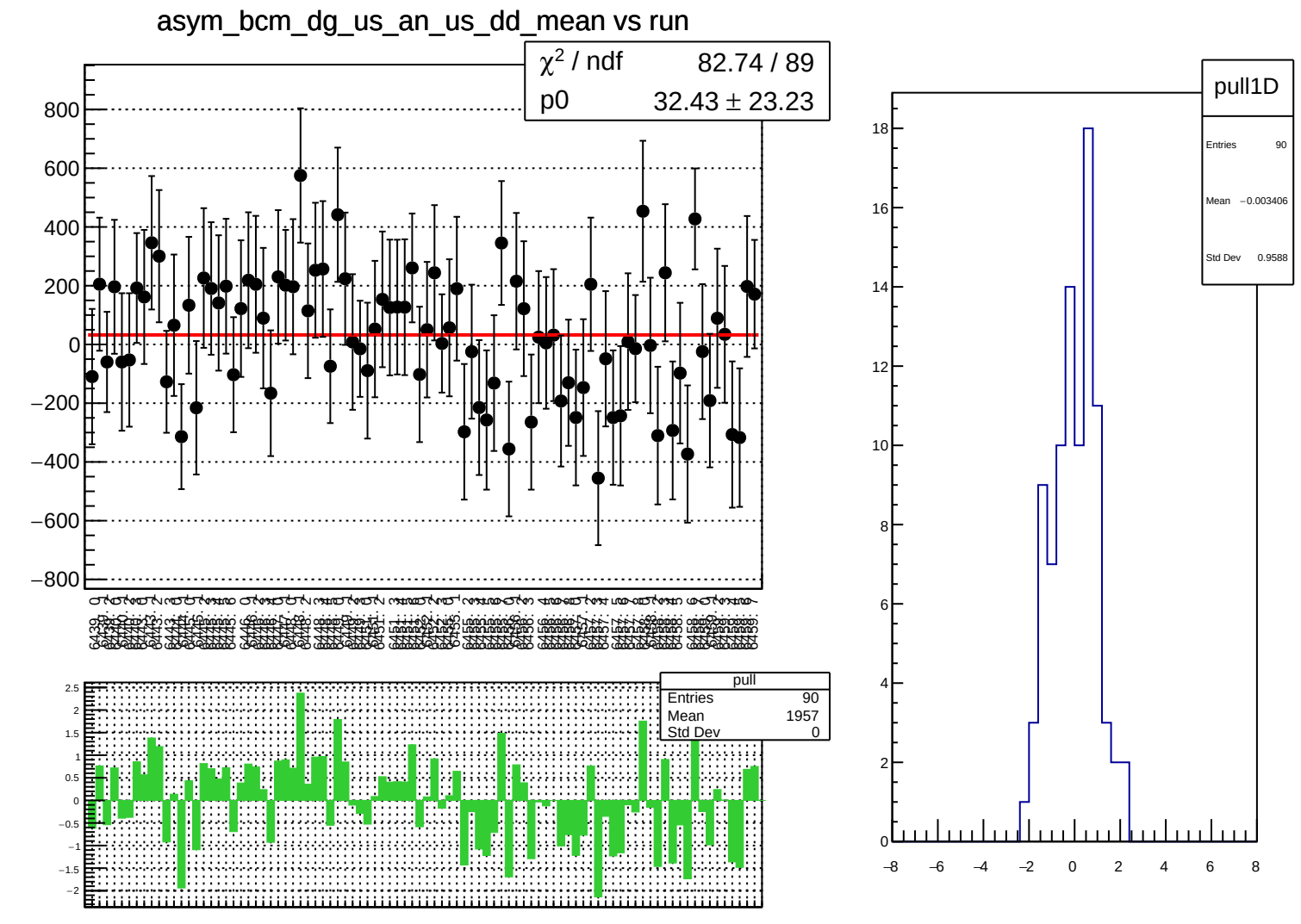

asym_bcm_cav4cQ_dg_ds_dd_mean vs run
χ² / ndf 92.84 / 89
p0 75.7 ± 32.48
1000
500
0
−500
−1000
pull
Entries 90
Mean 164.1
Std Dev 0
pull1D
Entries 90
Mean 0.009219
Std Dev 1.016
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

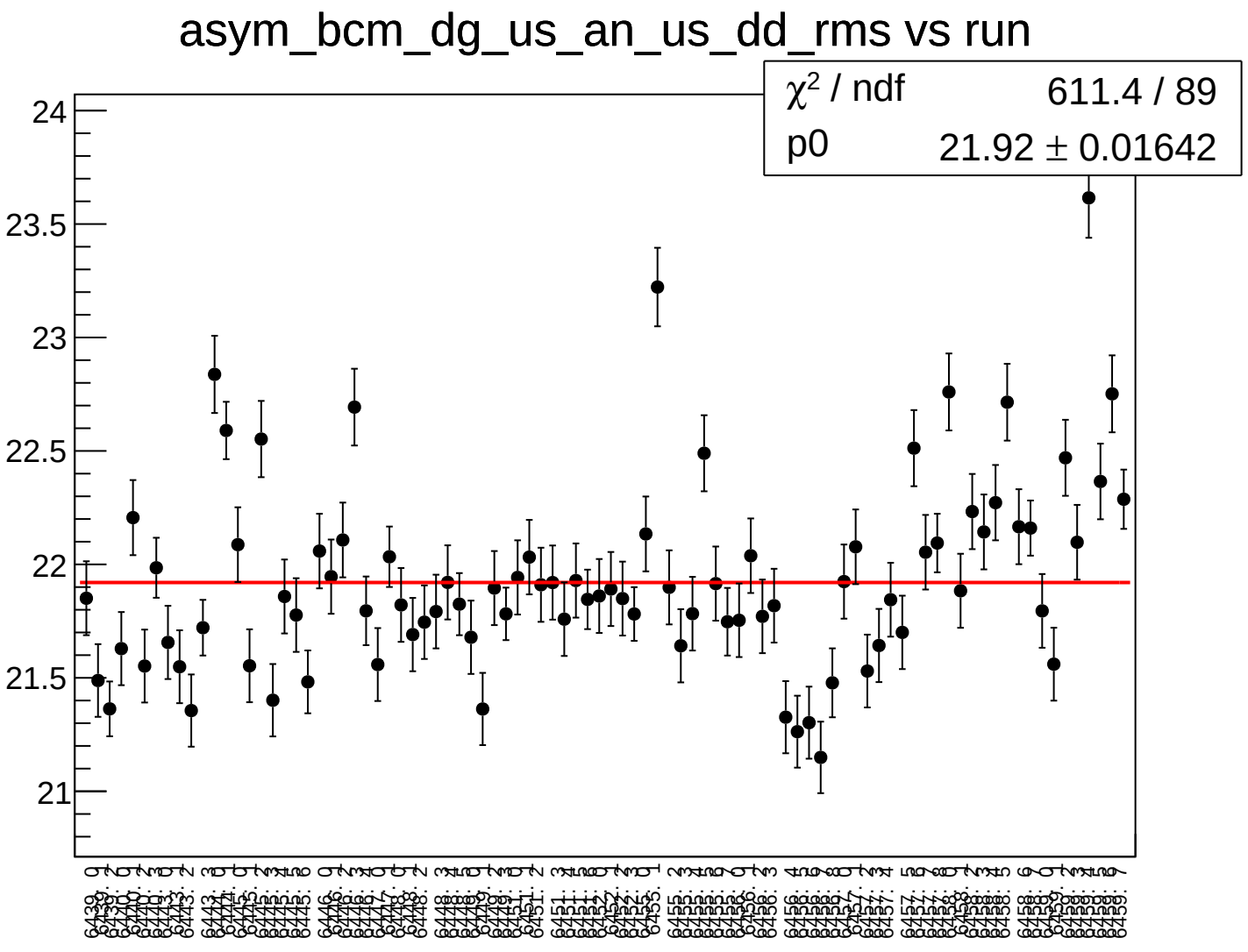

asym_bcm_cav4cQ_dg_ds_dd_rms vs run
χ² / ndf 5457 / 89
p0 30.61 ± 0.02297
44
42
40
38
36
34
32
30
28

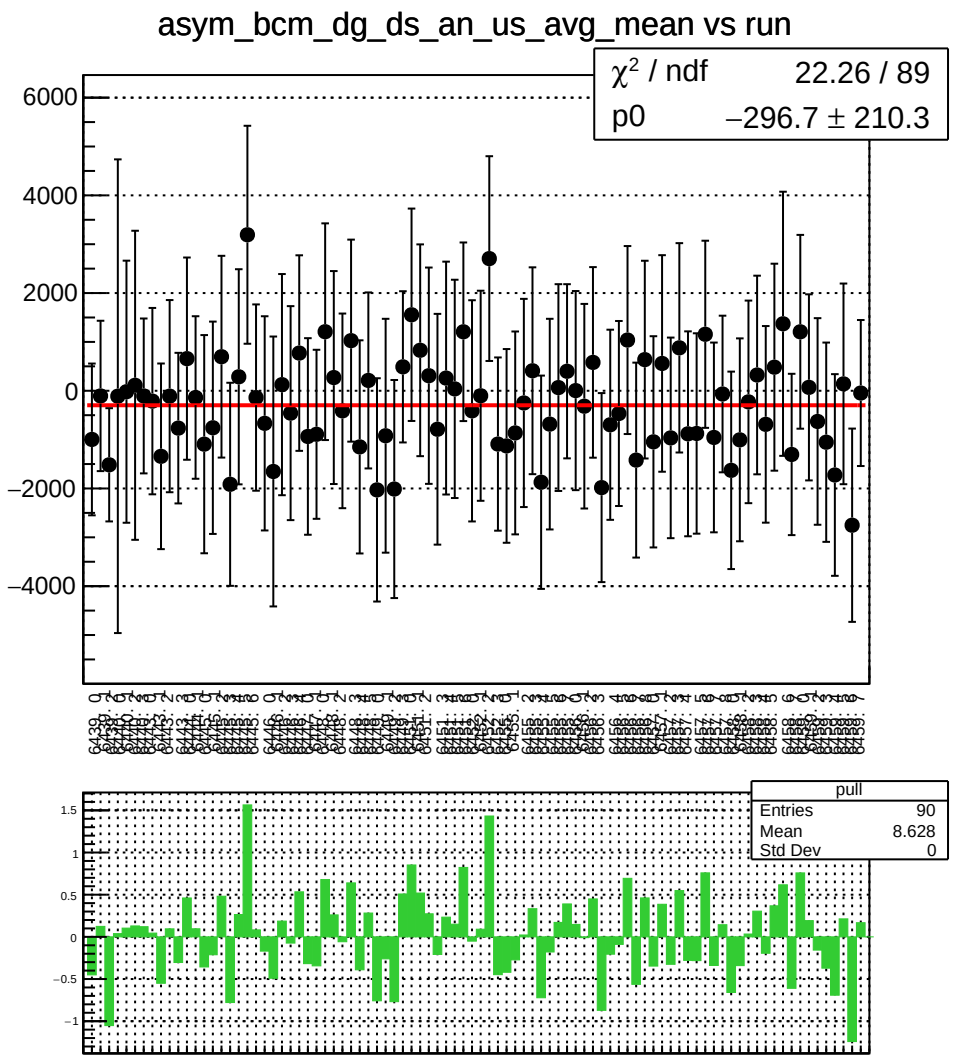

asym_bcm_dg_us_an_us_avg_mean vs run
χ² / ndf 20.9 / 89
p0 −255 ± 211.8
6000
4000
2000
0
−2000
−4000
pull
Entries 90
Mean −53.67
Std Dev 0
1.5
1
0.5
0
−0.5
−1

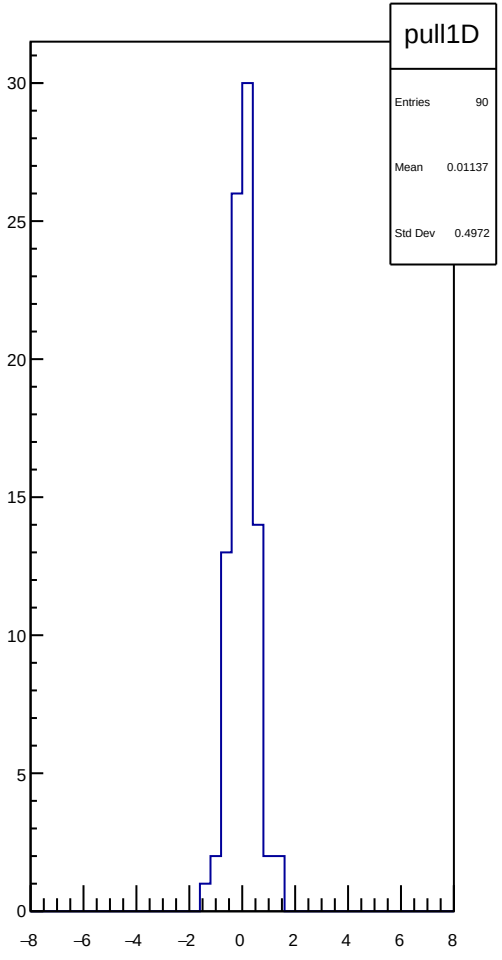

pull1D
Entries 90
Mean 0.01101
Std Dev 0.4818
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

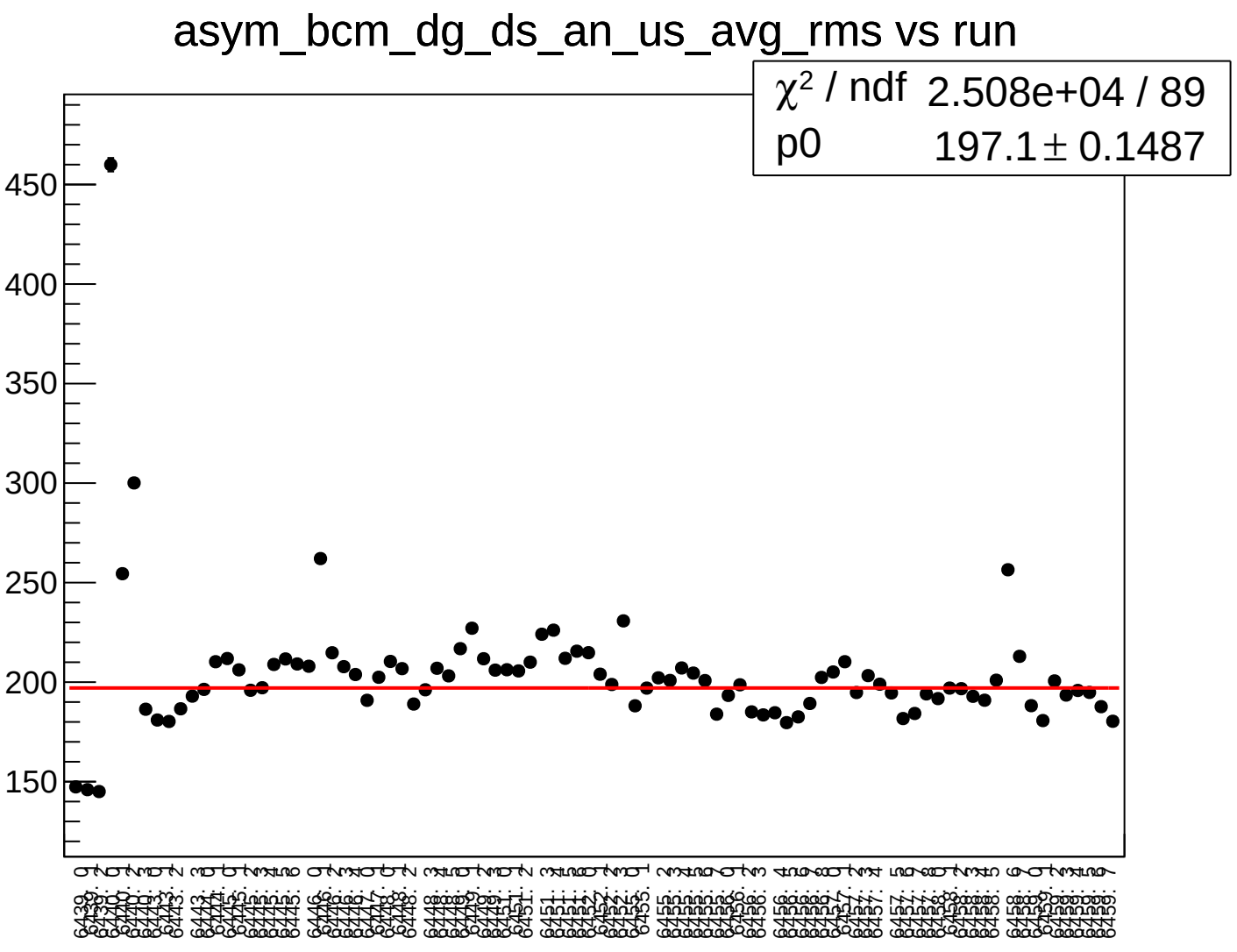

asym_bcm_dg_us_an_us_avg_rms vs run
χ² / ndf 2.476e+04 / 89
p0 198.6 ± 0.1498
450
400
350
300
250
200
150

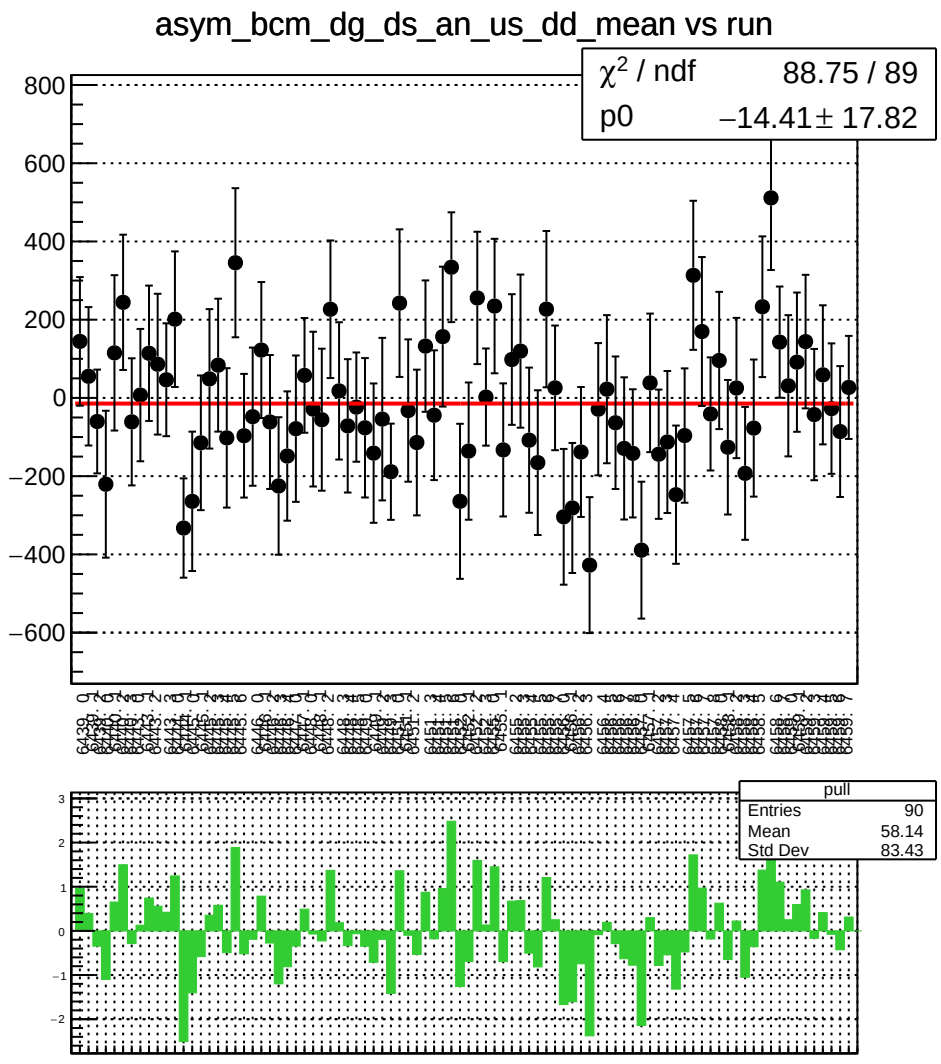

asym_bcm_dg_us_an_us_dd_mean vs run
χ² / ndf 82.74 / 89
p0 32.43 ± 23.23
pull
Entries 90
Mean 1957
Std Dev 0
pull1D
Entries 90
Mean −0.003406
Std Dev 0.9588

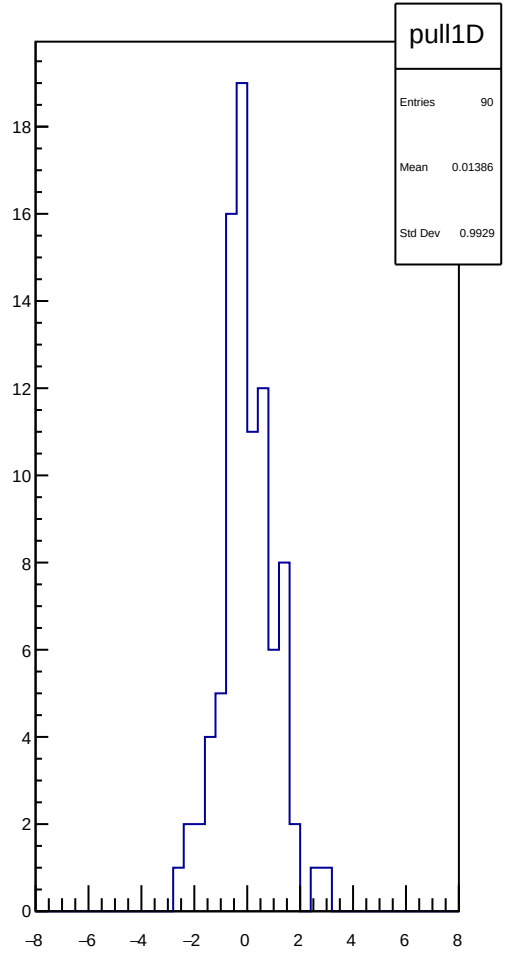

asym_bcm_dg_us_an_us_dd_rms vs run
χ² / ndf 611.4 / 89
p0 21.92 ± 0.01642
24
23.5
23
22.5
22
21.5
21

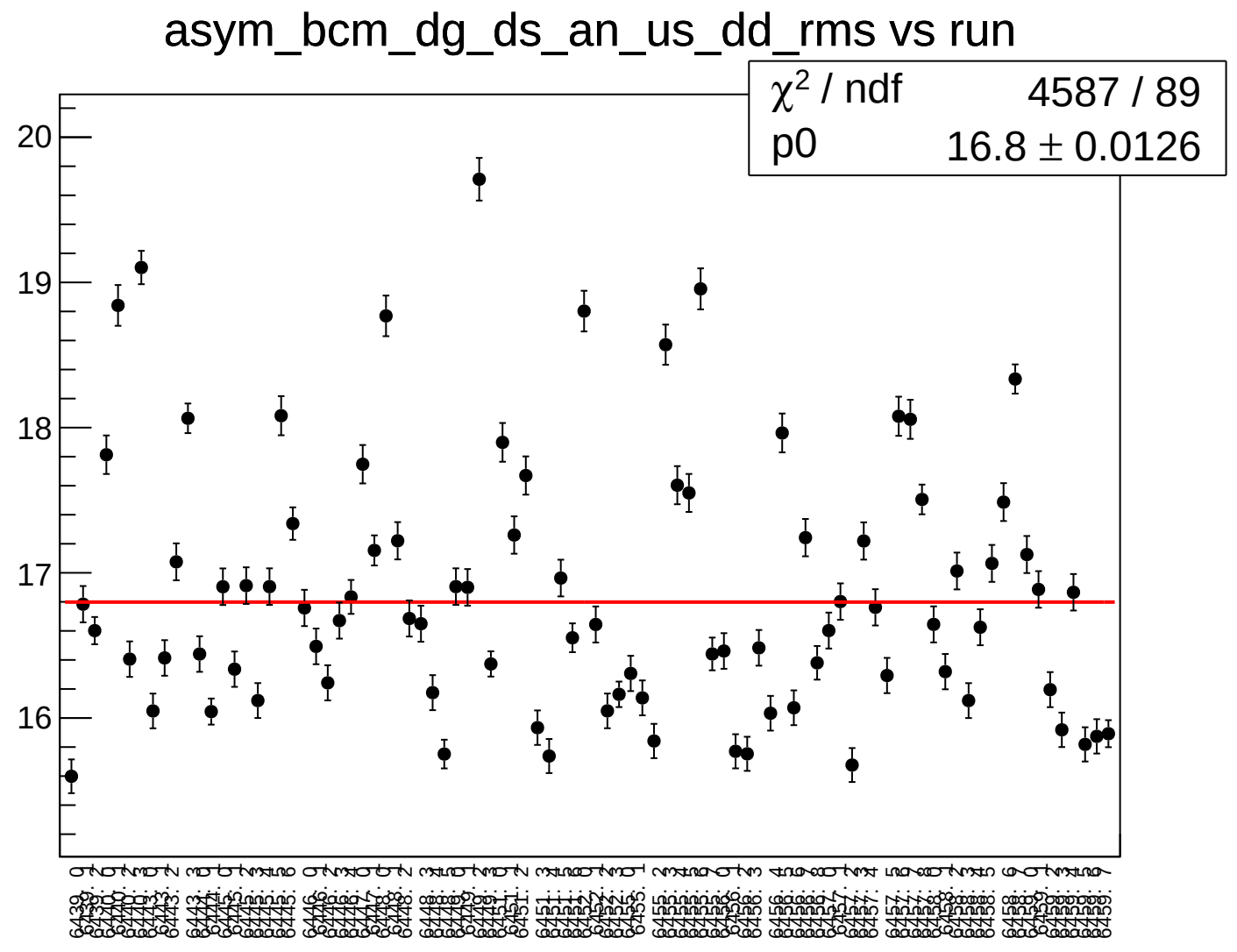

asym_bcm_dg_ds_an_us_avg_mean vs run
χ² / ndf 22.26 / 89
p0 −296.7 ± 210.3
6000
4000
2000
0
−2000
−4000
pull
Entries 90
Mean 8.628
Std Dev 0
1.5
1
0.5
0
−0.5
−1

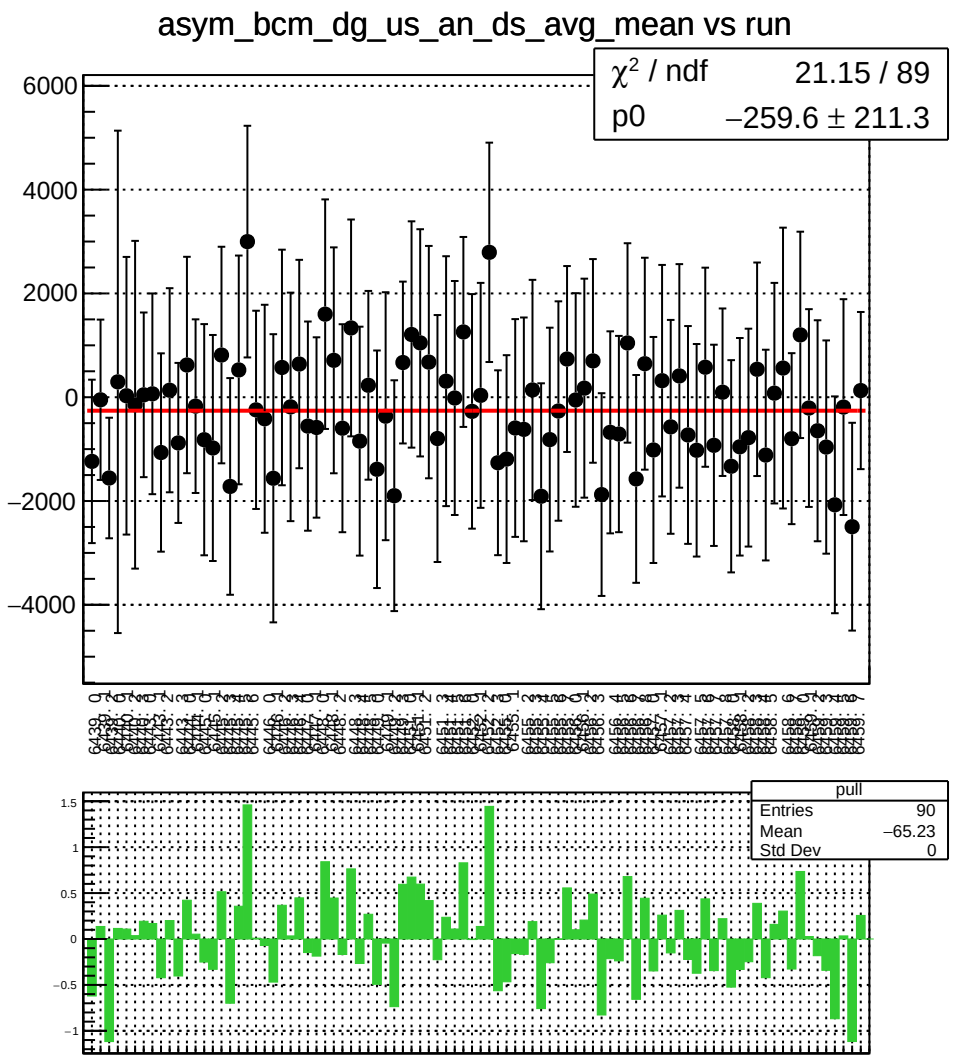

pull1D
Entries 90
Mean 0.01137
Std Dev 0.4972
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

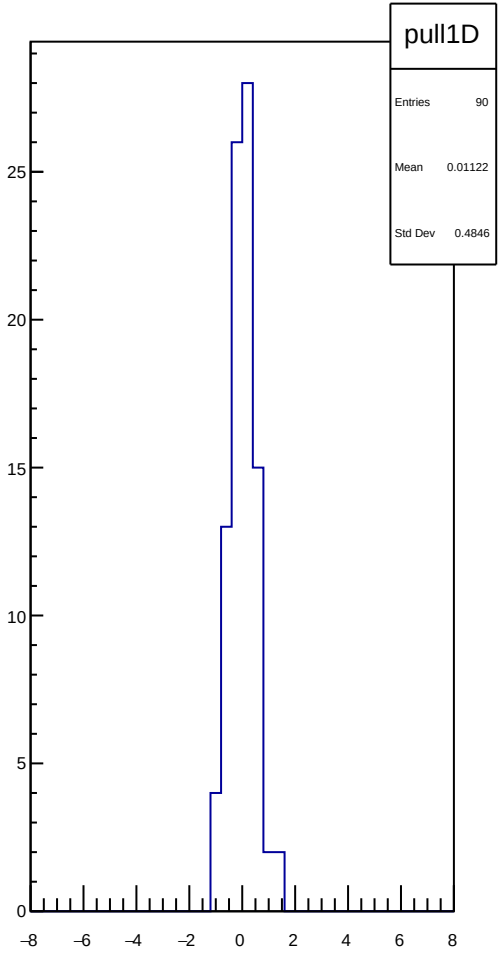

asym_bcm_dg_ds_an_us_avg_rms vs run
χ² / ndf 2.508e+04 / 89
p0 197.1 ± 0.1487
450
400
350
300
250
200
150

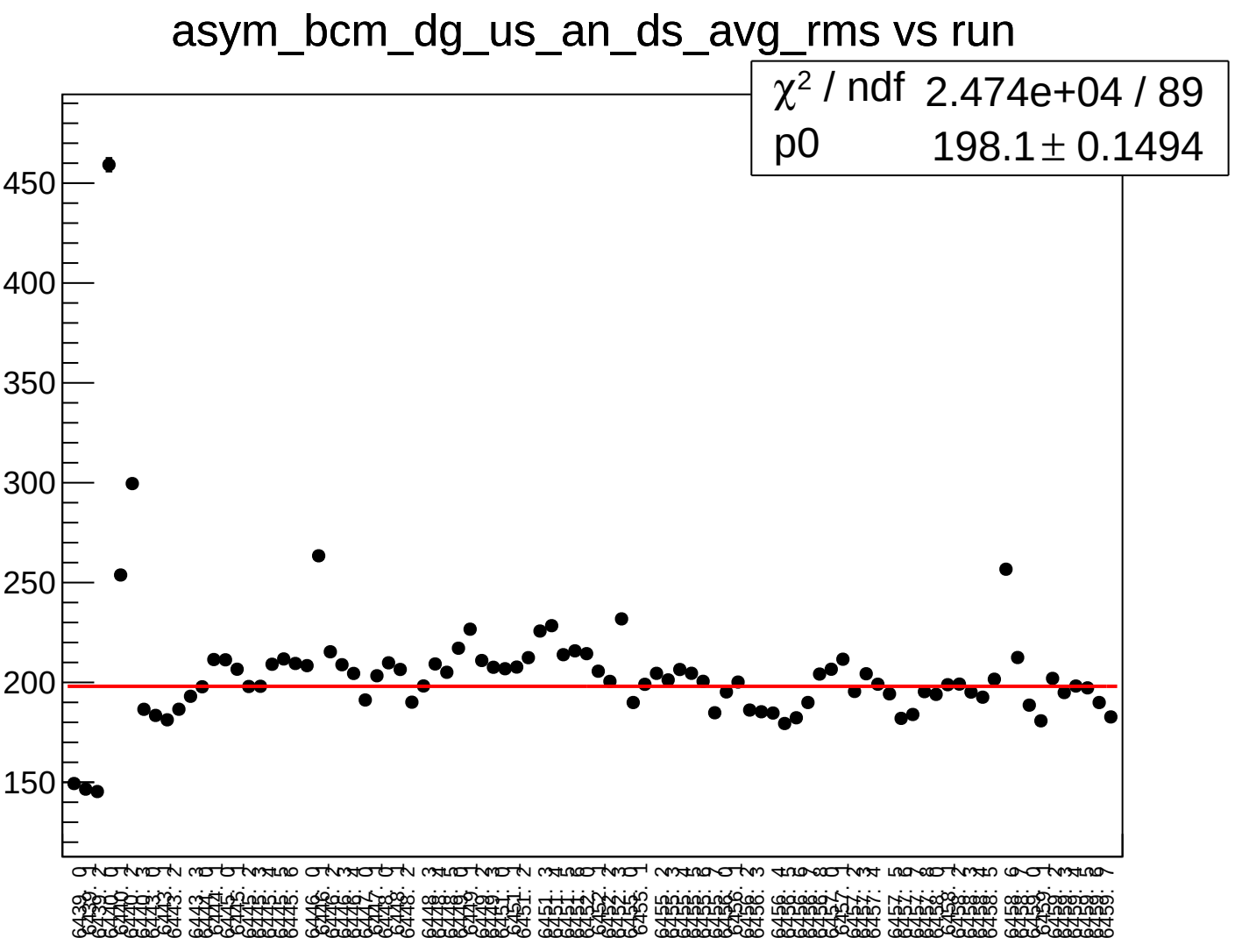

asym_bcm_dg_ds_an_us_dd_mean vs run
χ² / ndf 88.75 / 89
p0 −14.41 ± 17.82
800
600
400
200
0
−200
−400
−600
pull
Entries 90
Mean 58.14
Std Dev 83.43
3
2
1
0
−1
−2

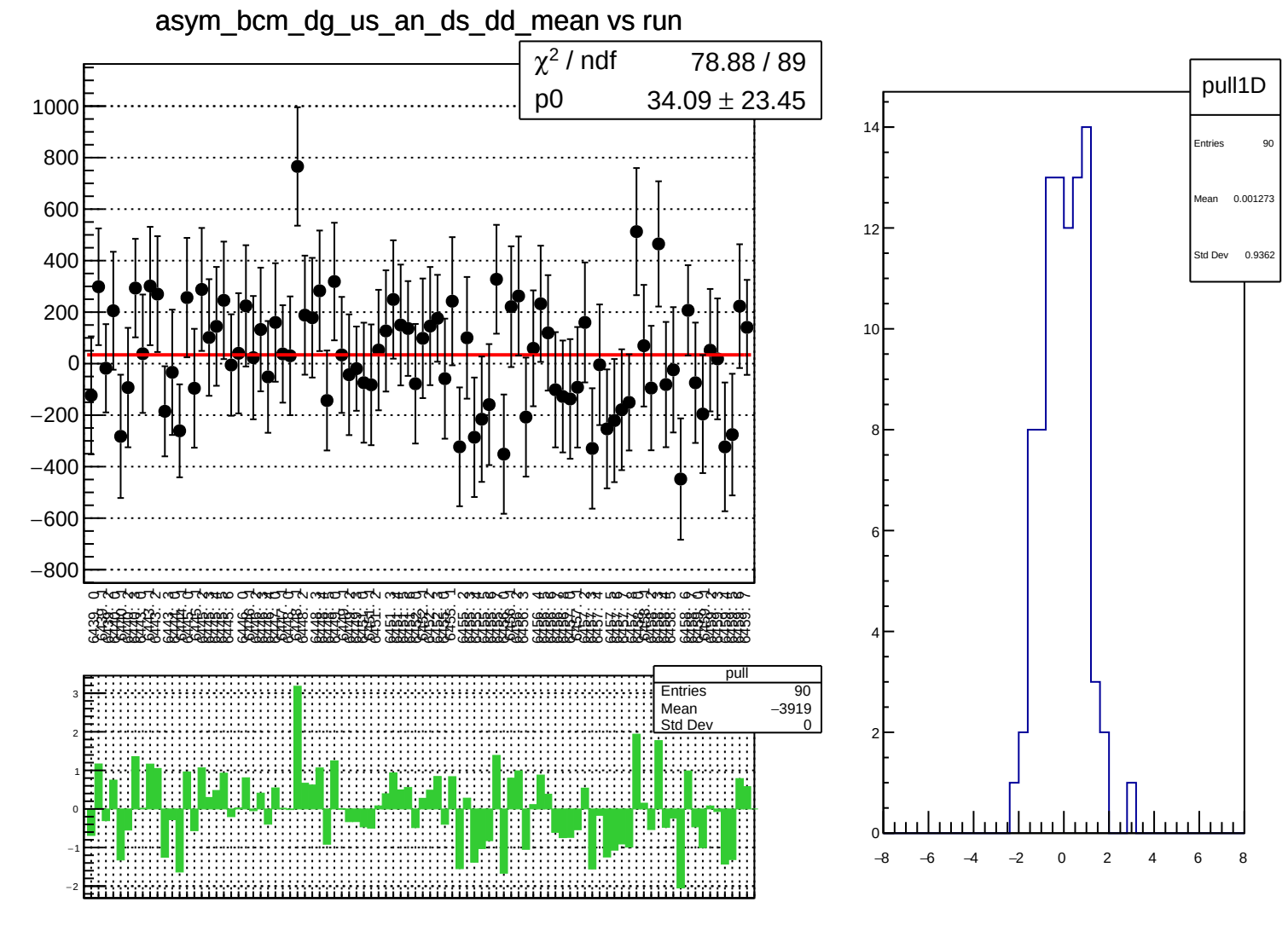

pull1D
Entries 90
Mean 0.01386
Std Dev 0.9929
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

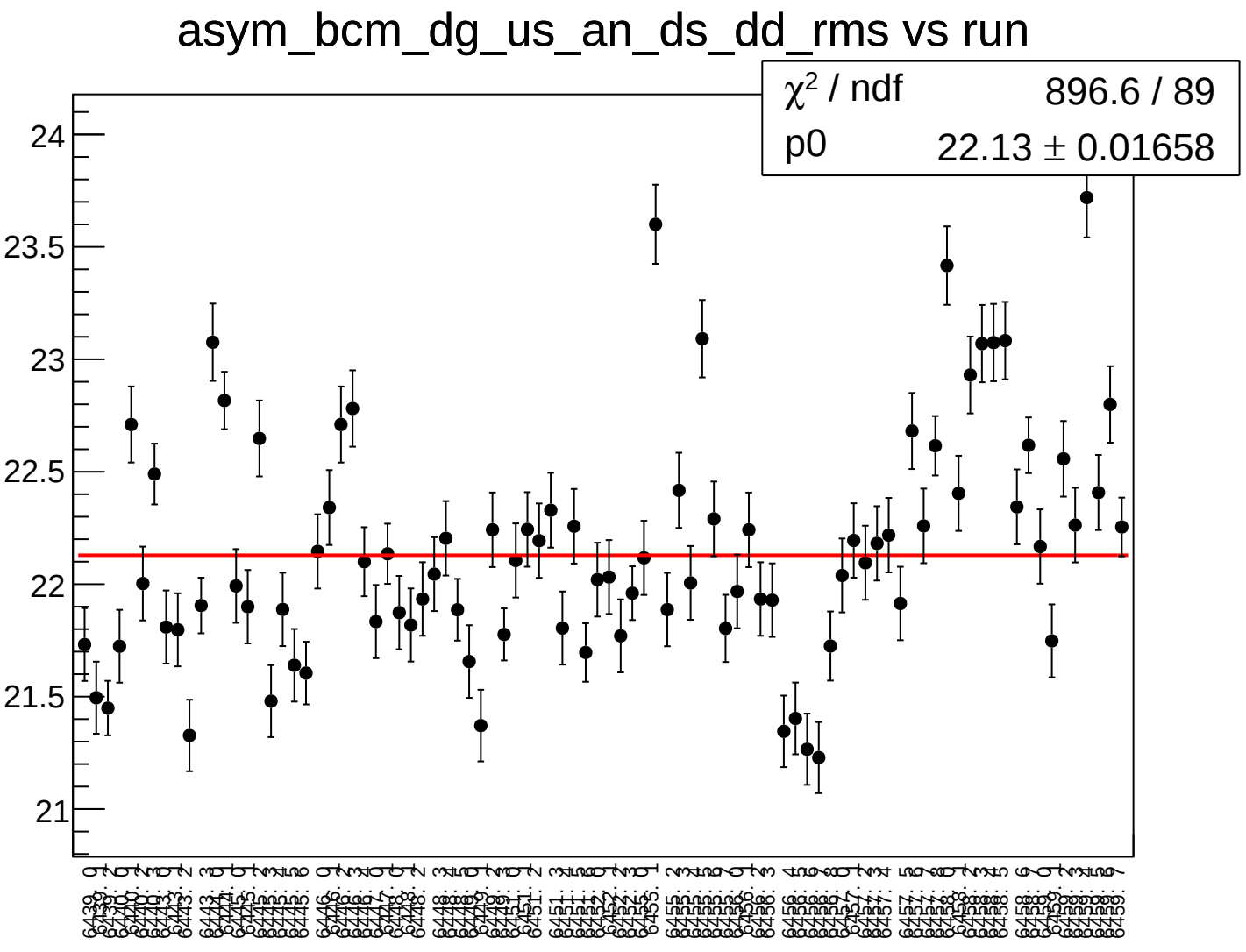

asym_bcm_dg_ds_an_us_dd_rms vs run
χ² / ndf 4587 / 89
p0 16.8 ± 0.0126
20
19
18
17
16

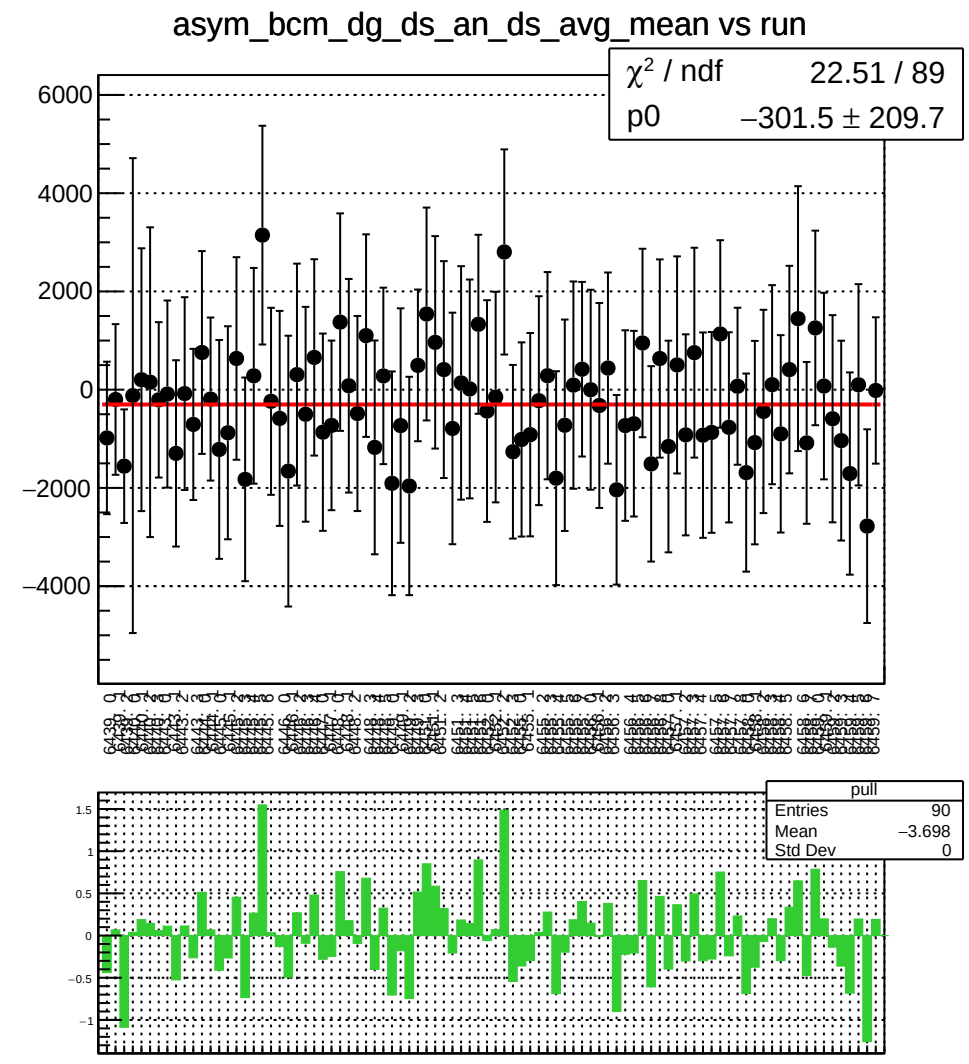

asym_bcm_dg_us_an_ds_avg_mean vs run
χ² / ndf 21.15 / 89
p0 −259.6 ± 211.3
6000
4000
2000
0
−2000
−4000
pull
Entries 90
Mean −65.23
Std Dev 0
1.5
1
0.5
0
−0.5
−1

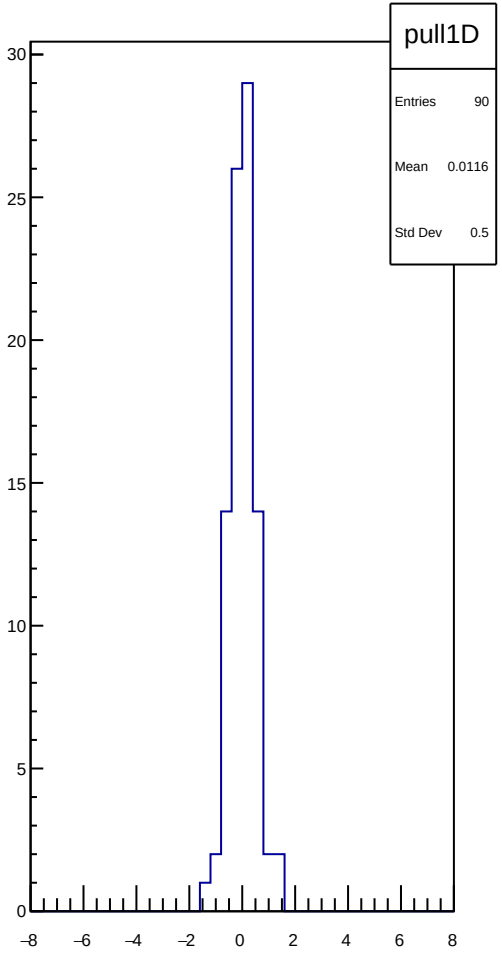

pull1D
Entries 90
Mean 0.01122
Std Dev 0.4846
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

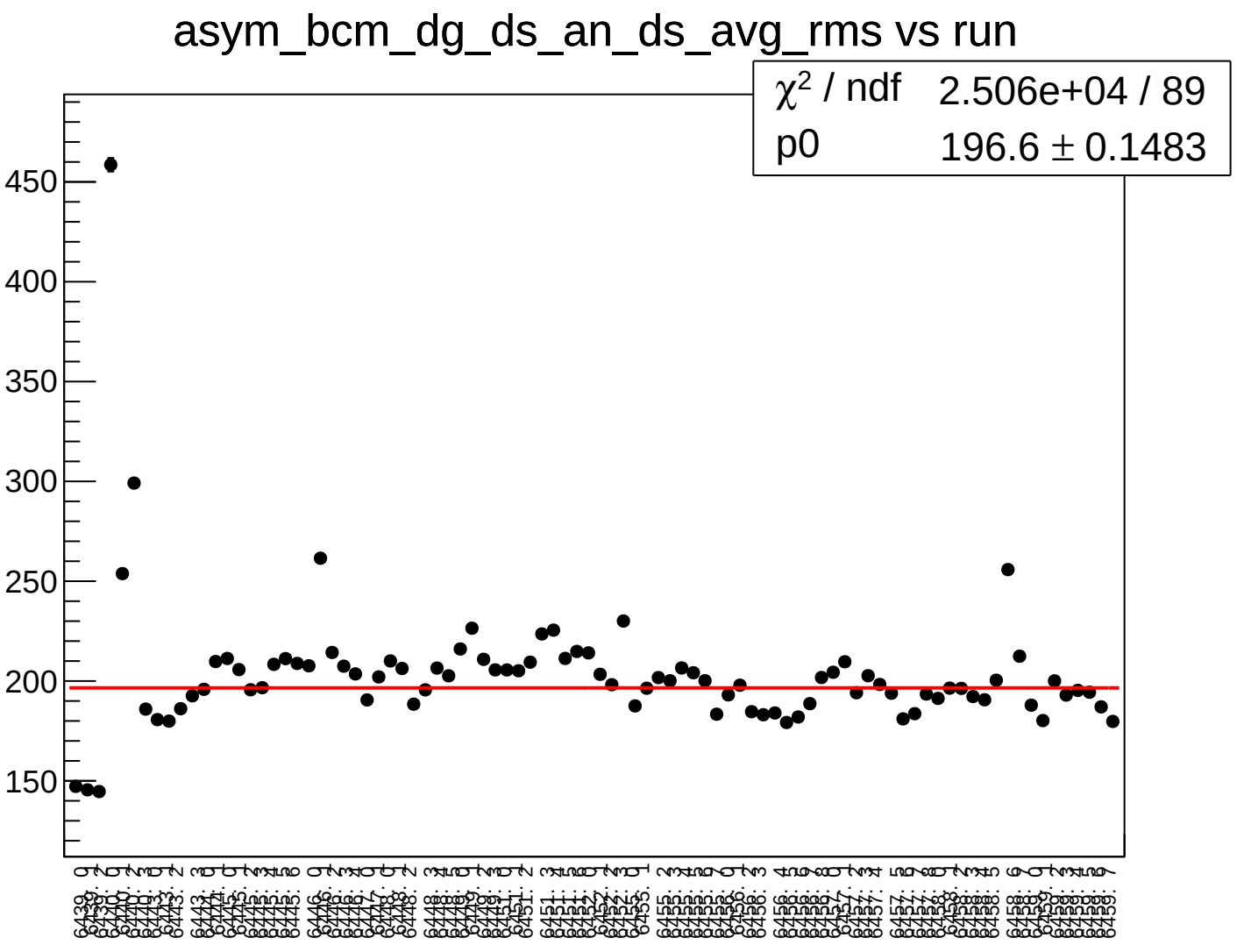

asym_bcm_dg_us_an_ds_avg_rms vs run
χ² / ndf 2.474e+04 / 89
p0 198.1 ± 0.1494
450
400
350
300
250
200
150

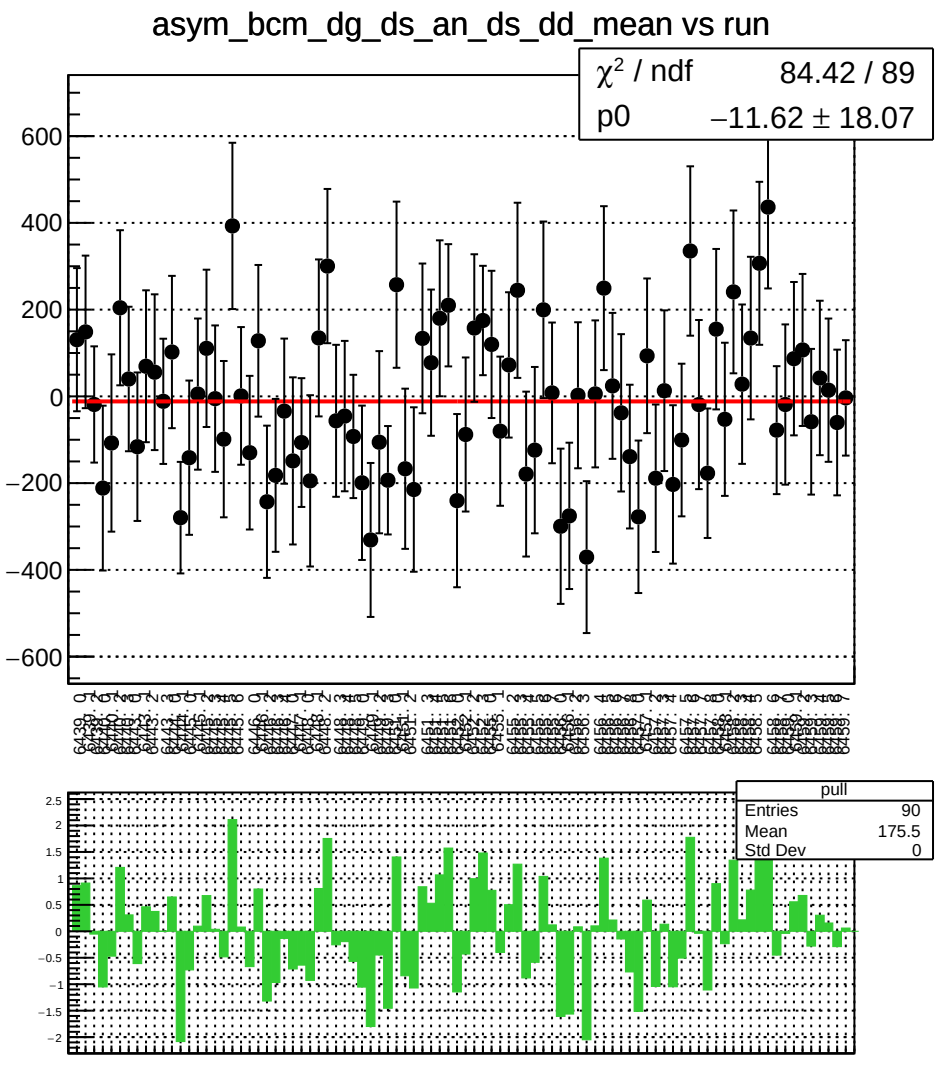

asym_bcm_dg_us_an_ds_dd_mean vs run
χ² / ndf 78.88 / 89
p0 34.09 ± 23.45
pull
Entries 90
Mean −3919
Std Dev 0
pull1D
Entries 90
Mean 0.001273
Std Dev 0.9362

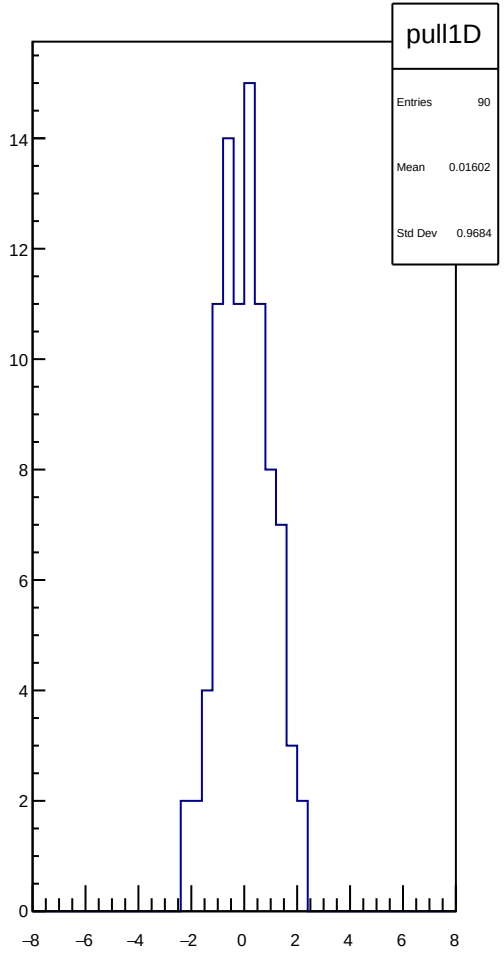

asym_bcm_dg_us_an_ds_dd_rms vs run
χ² / ndf 896.6 / 89
p0 22.13 ± 0.01658
24
23.5
23
22.5
22
21.5
21

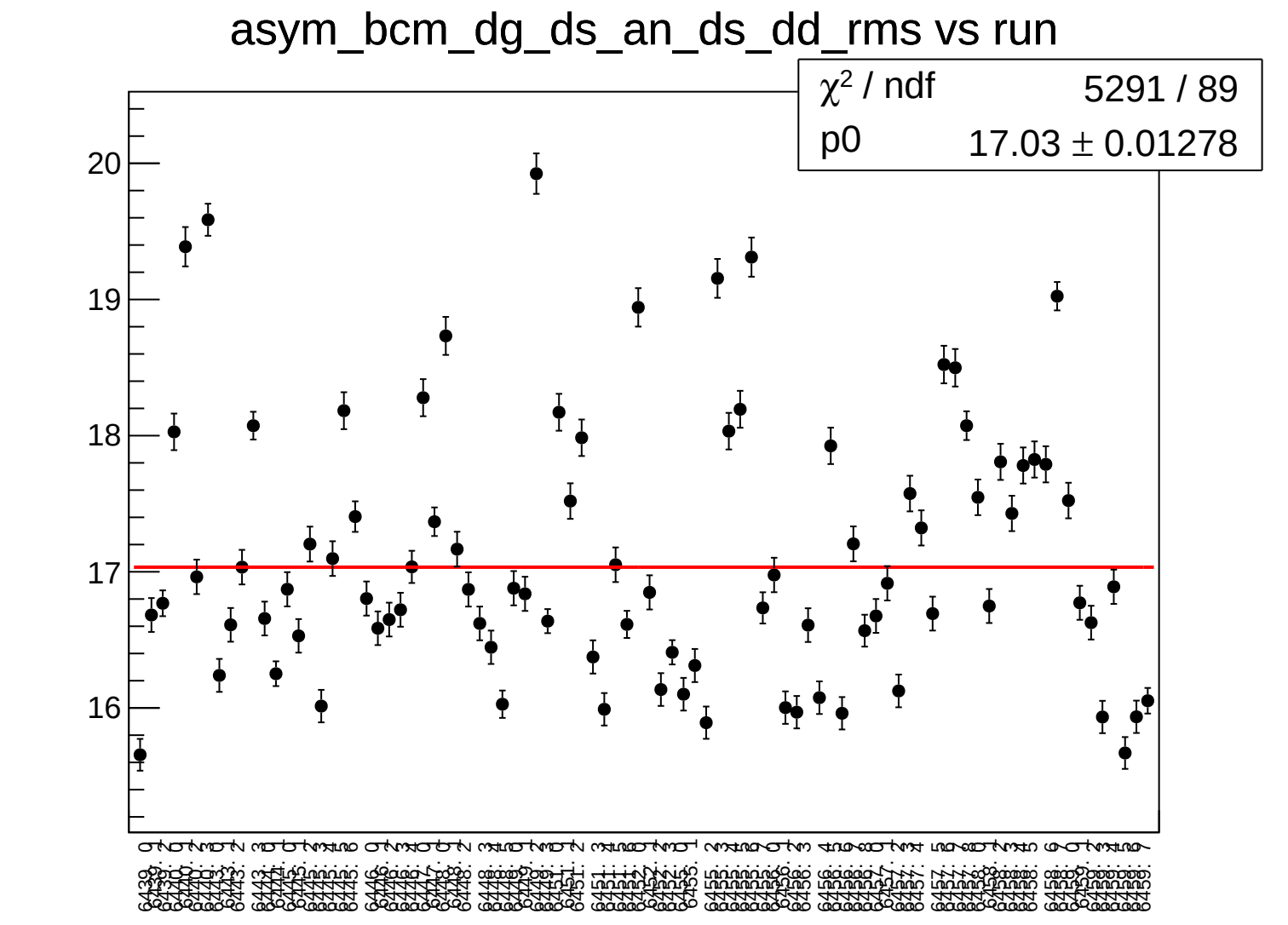

asym_bcm_dg_ds_an_ds_avg_mean vs run
χ² / ndf 22.51 / 89
p0 −301.5 ± 209.7
6000
4000
2000
0
−2000
−4000
pull
Entries 90
Mean −3.698
Std Dev 0
1.5
1
0.5
0
−0.5
−1

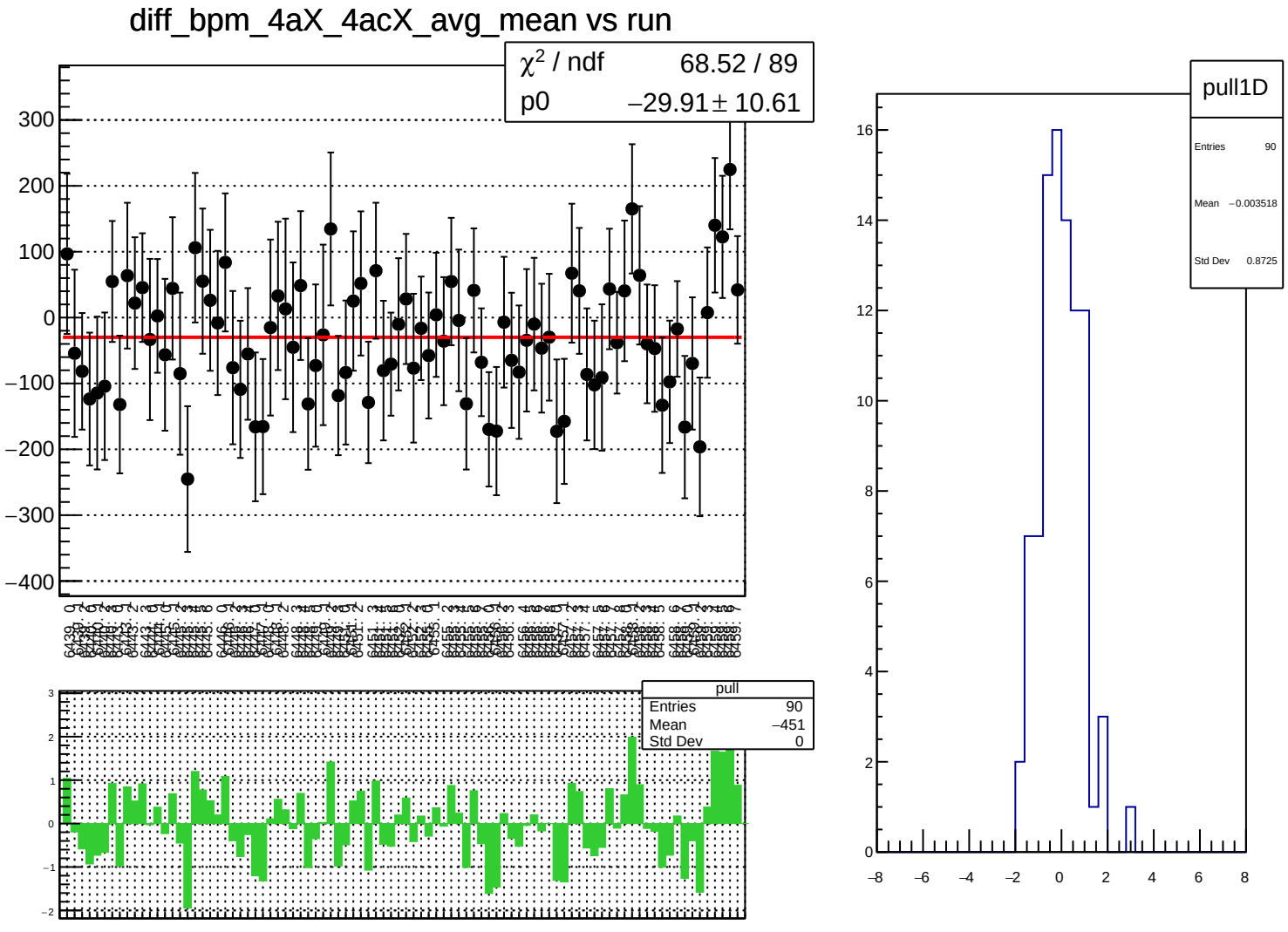

pull1D
Entries 90
Mean 0.0116
Std Dev 0.5
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

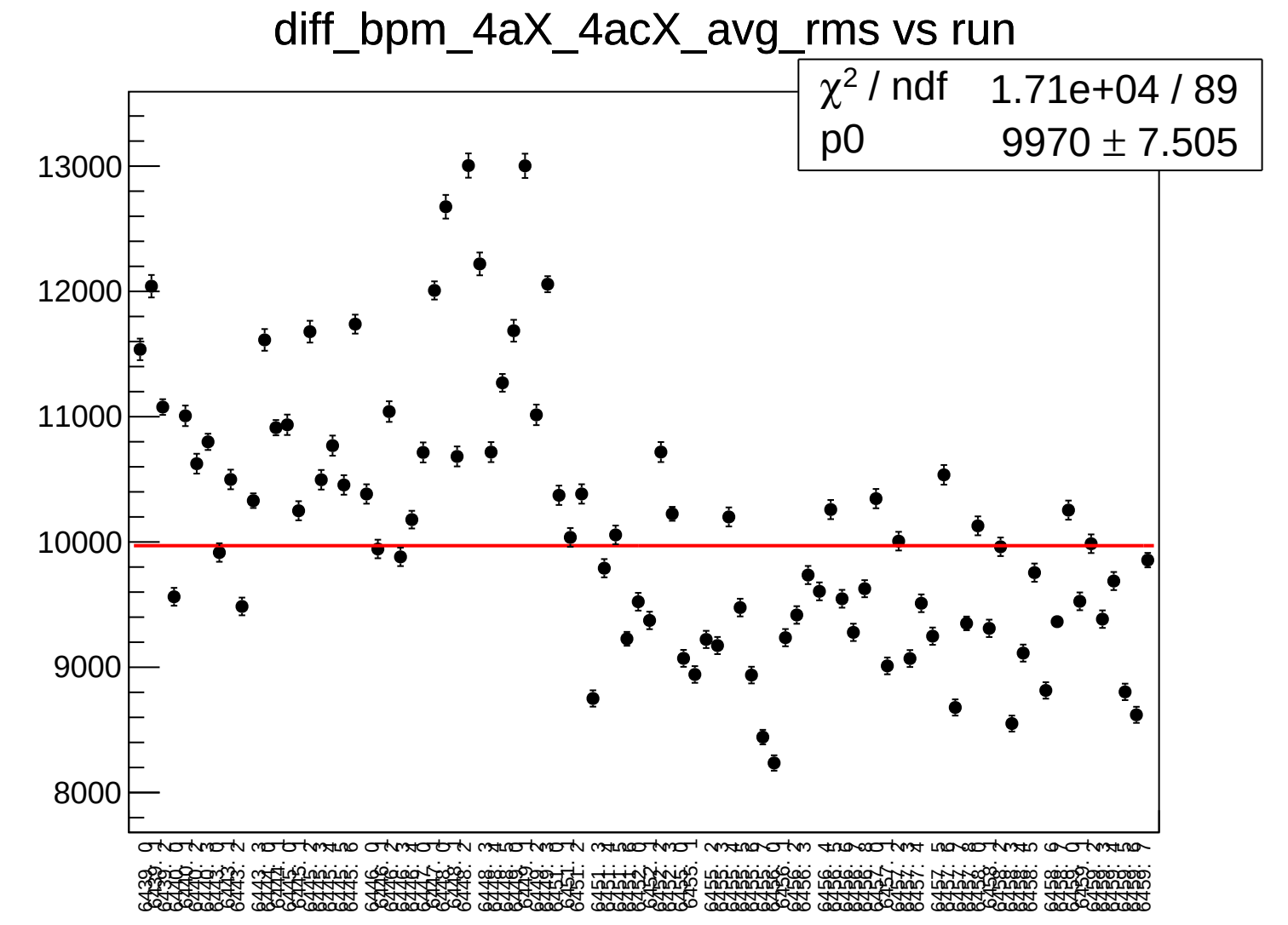

asym_bcm_dg_ds_an_ds_avg_rms vs run
χ² / ndf 2.506e+04 / 89
p0 196.6 ± 0.1483
450
400
350
300
250
200
150

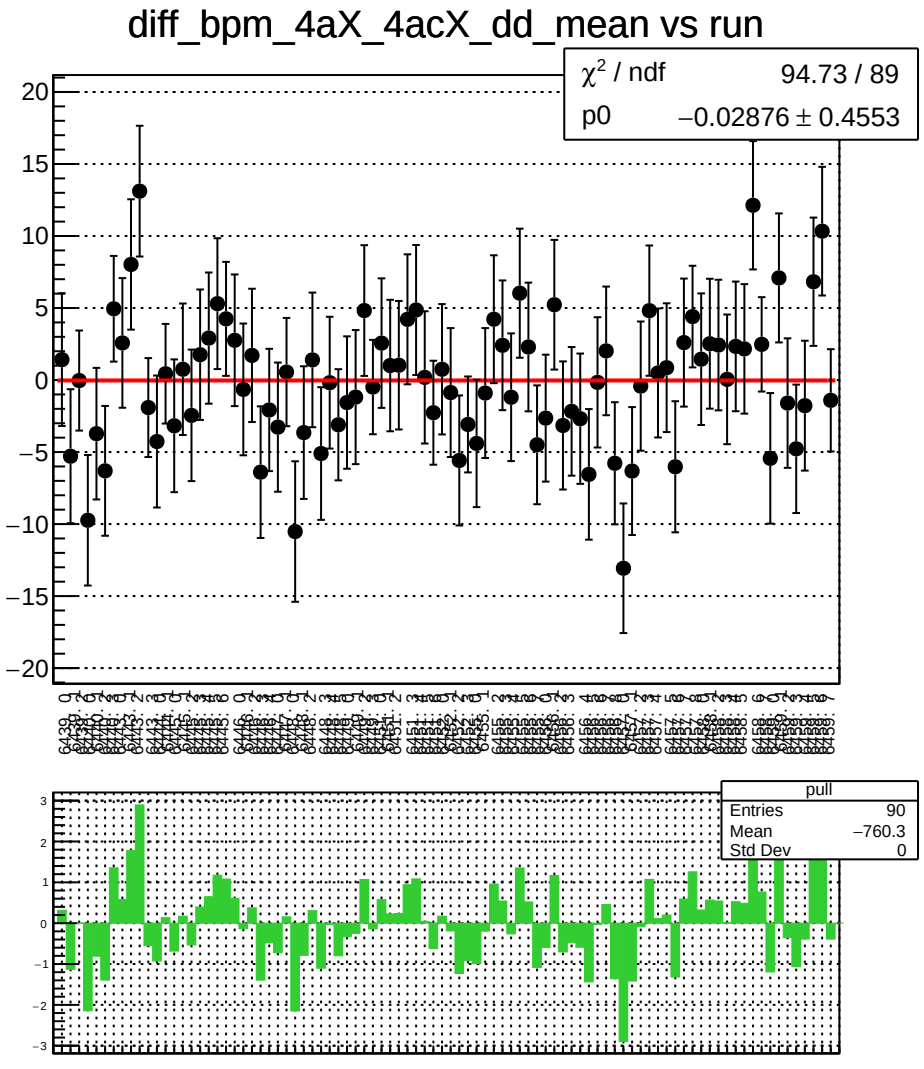

asym_bcm_dg_ds_an_ds_dd_mean vs run
χ² / ndf 84.42 / 89
p0 −11.62 ± 18.07
600
400
200
0
−200
−400
−600
pull
Entries 90
Mean 175.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

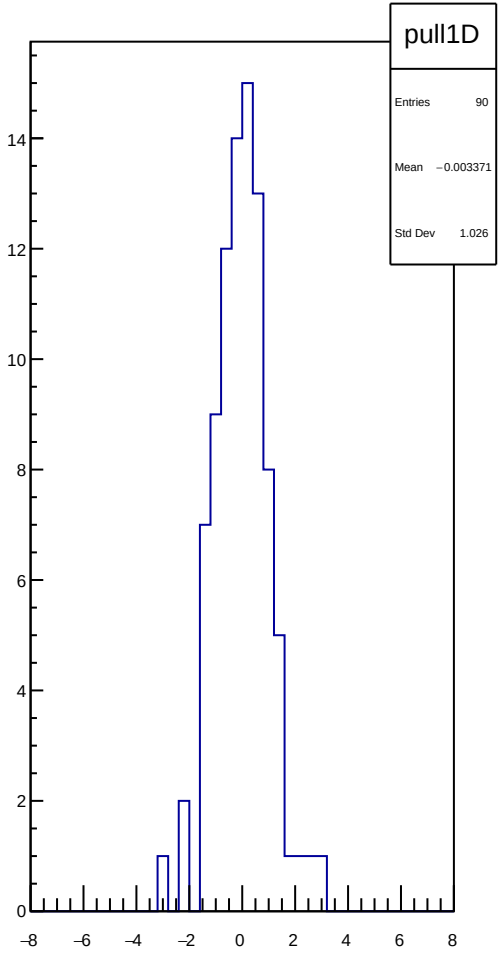

pull1D
Entries 90
Mean 0.01602
Std Dev 0.9684
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

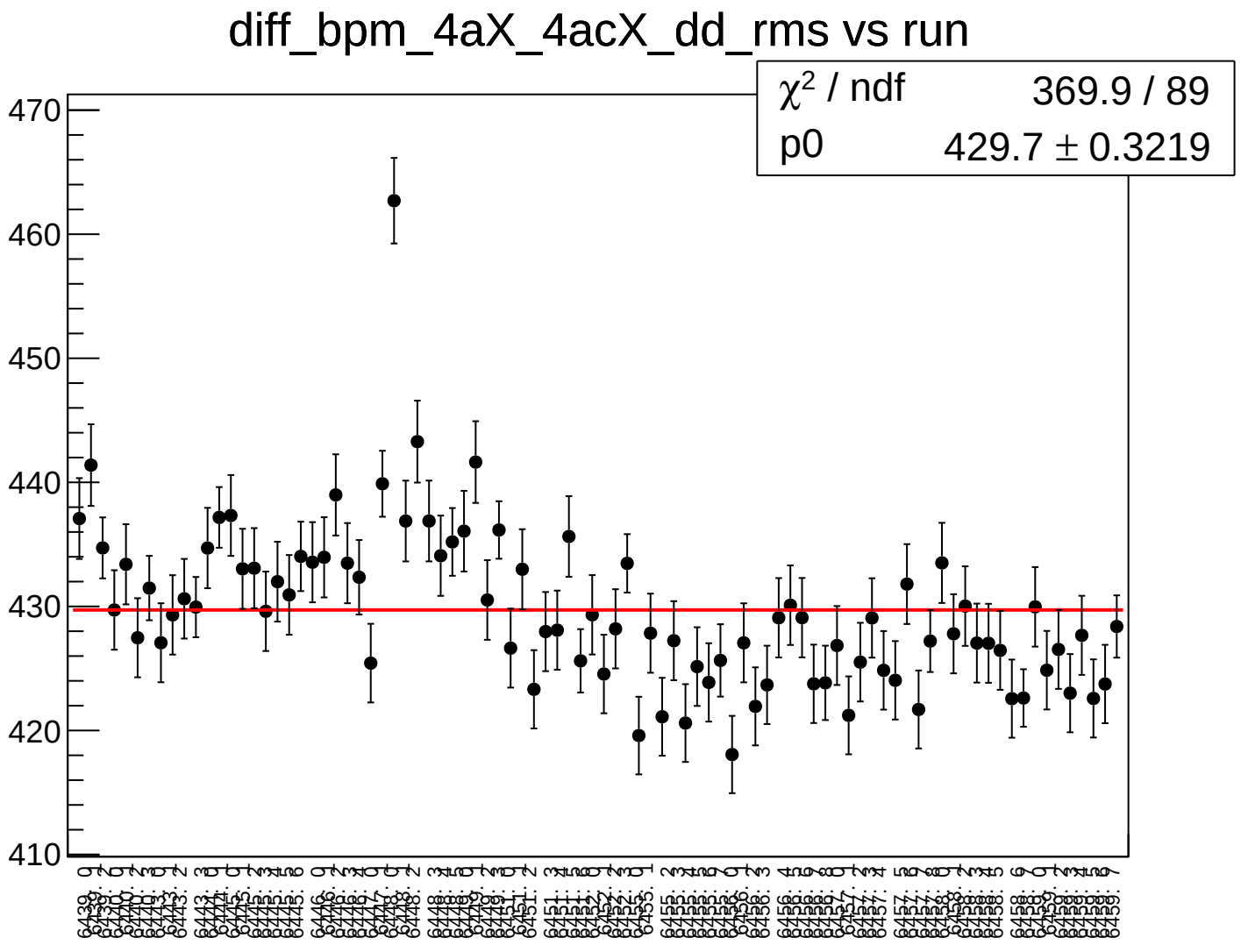

asym_bcm_dg_ds_an_ds_dd_rms vs run
χ² / ndf 5291 / 89
p0 17.03 ± 0.01278
20
19
18
17
16

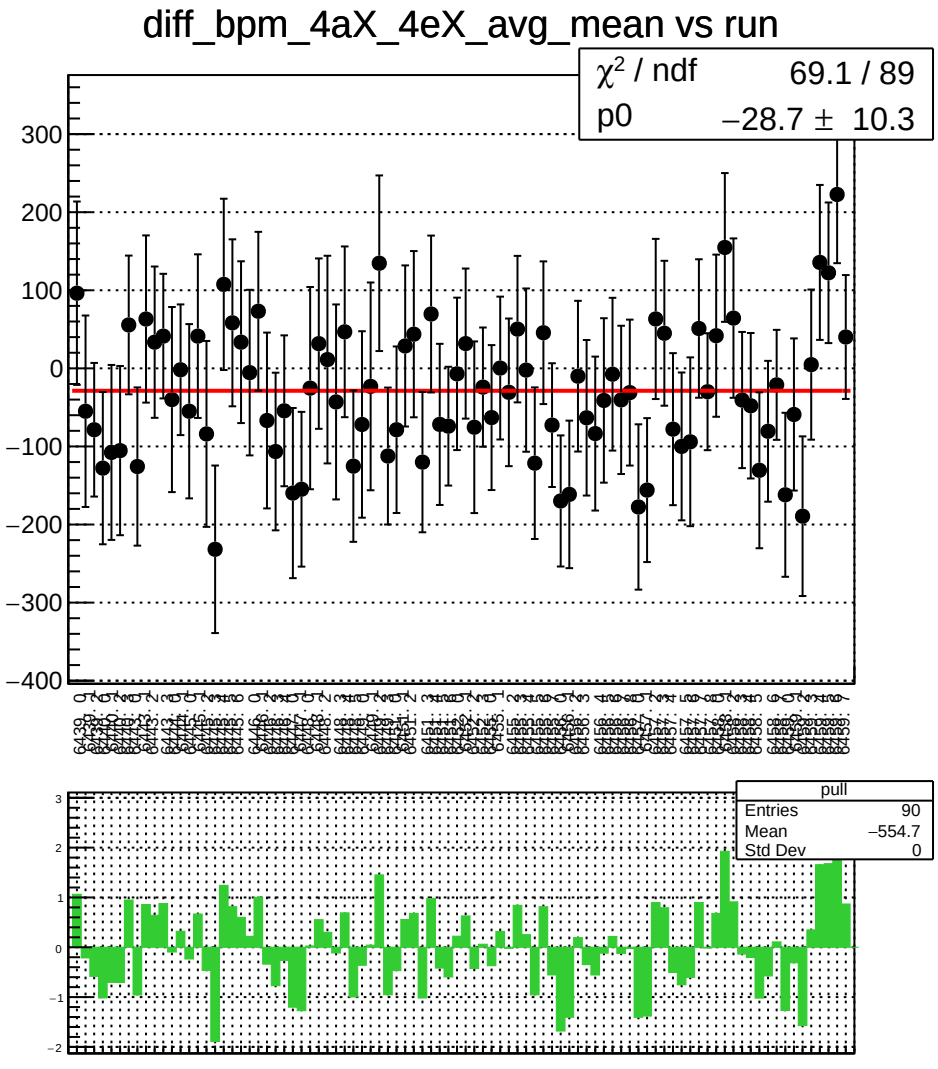

diff_bpm_4aX_4acX_avg_mean vs run
χ² / ndf 68.52 / 89
p0 −29.91 ± 10.61
300
200
100
0
−100
−200
−300
−400
pull
Entries 90
Mean −451
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.003518
Std Dev 0.8725
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

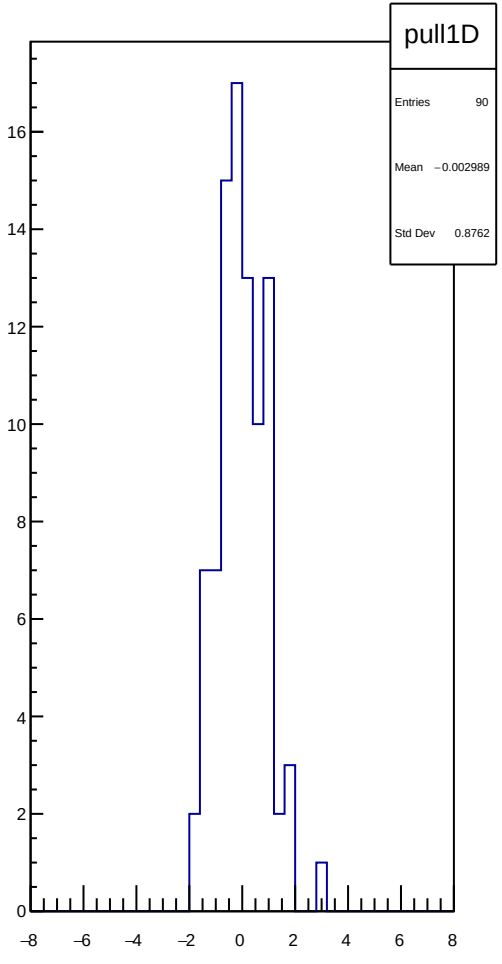

diff_bpm_4aX_4acX_avg_rms vs run
χ² / ndf 1.71e+04 / 89
p0 9970 ± 7.505
13000
12000
11000
10000
9000
8000

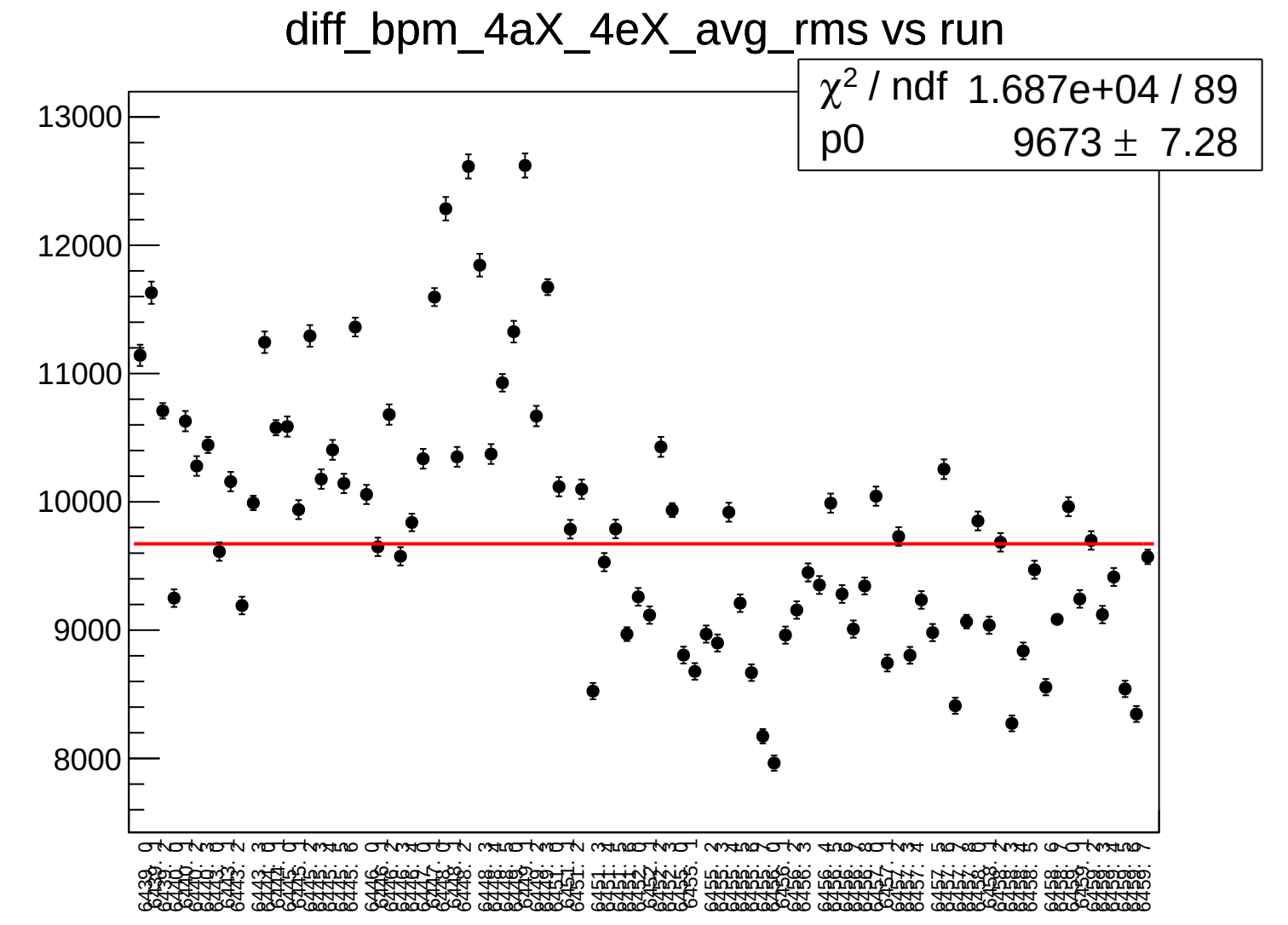

diff_bpm_4aX_4acX_dd_mean vs run
χ² / ndf 94.73 / 89
p0 −0.02876 ± 0.4553
pull
Entries 90
Mean −760.3
Std Dev 0

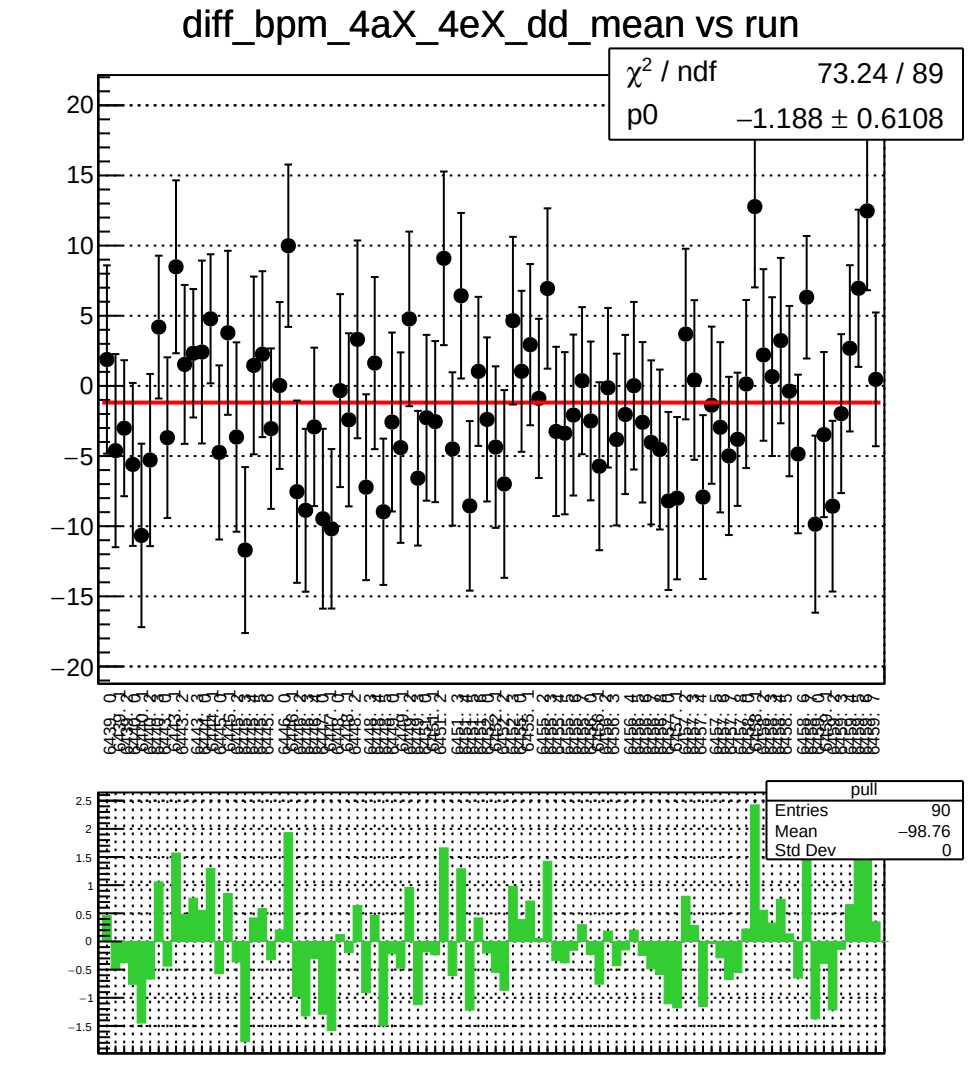

pull1D
Entries 90
Mean −0.003371
Std Dev 1.026

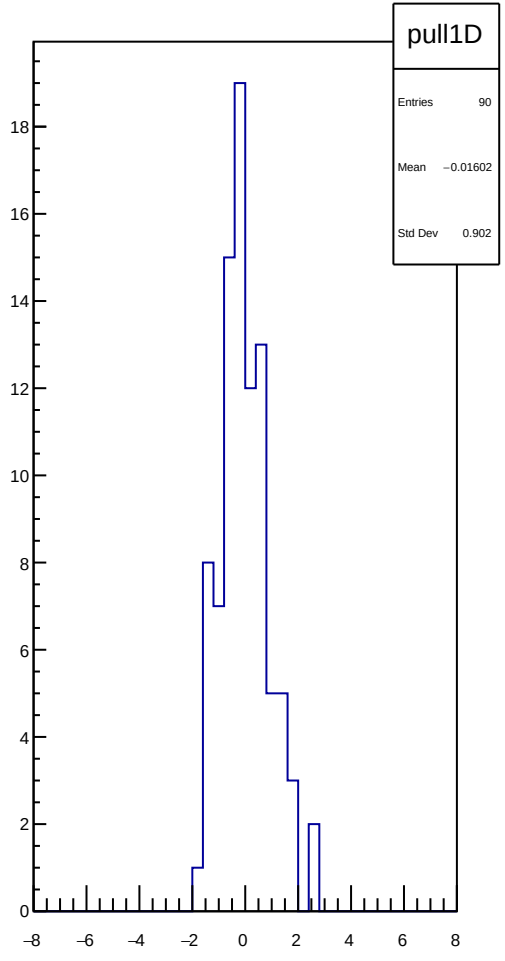

diff_bpm_4aX_4acX_dd_rms vs run
χ² / ndf 369.9 / 89
p0 429.7 ± 0.3219
470
460
450
440
430
420
410

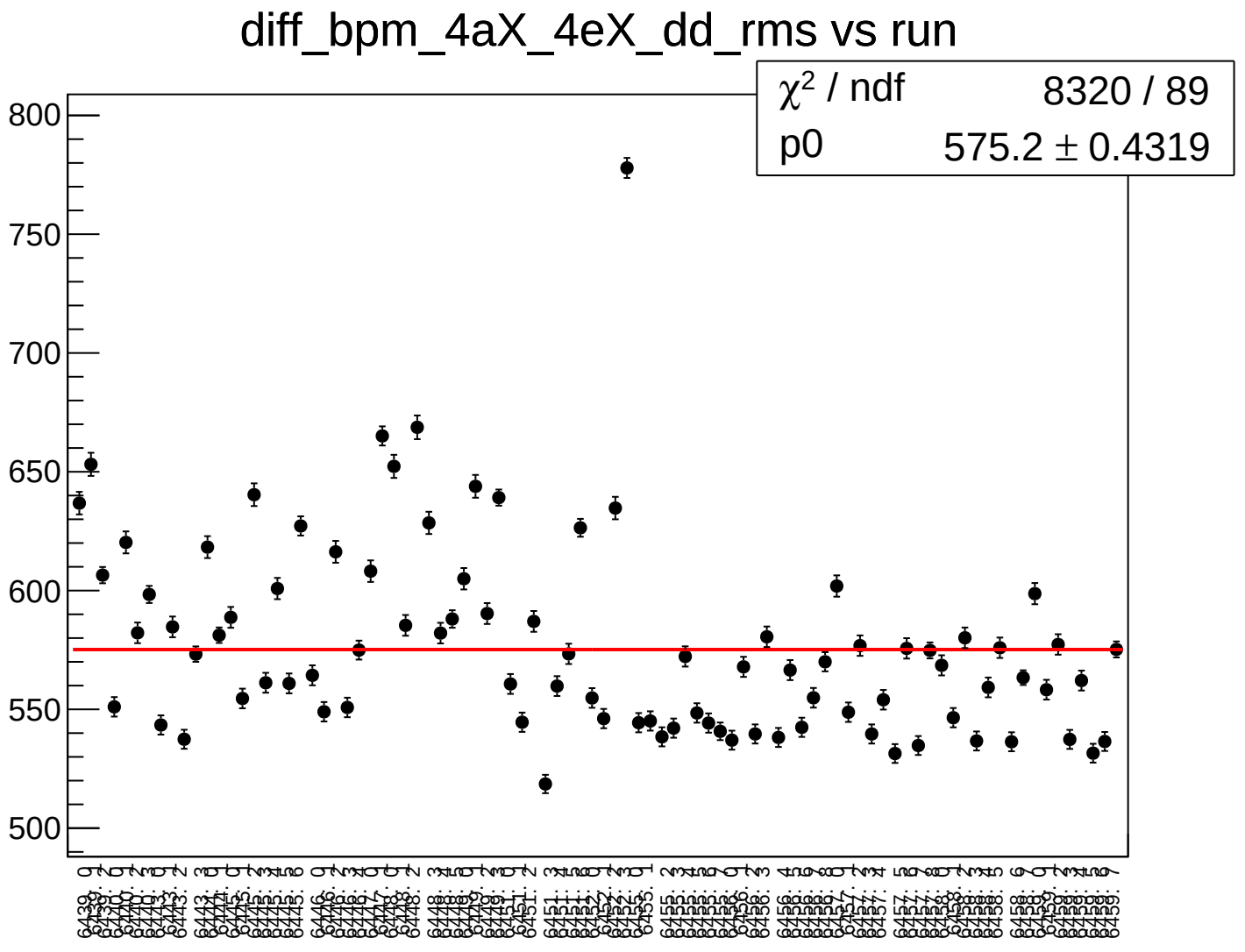

diff_bpm_4aX_4eX_avg_mean vs run
χ² / ndf 69.1 / 89
p0 −28.7 ± 10.3
pull
Entries 90
Mean −554.7
Std Dev 0

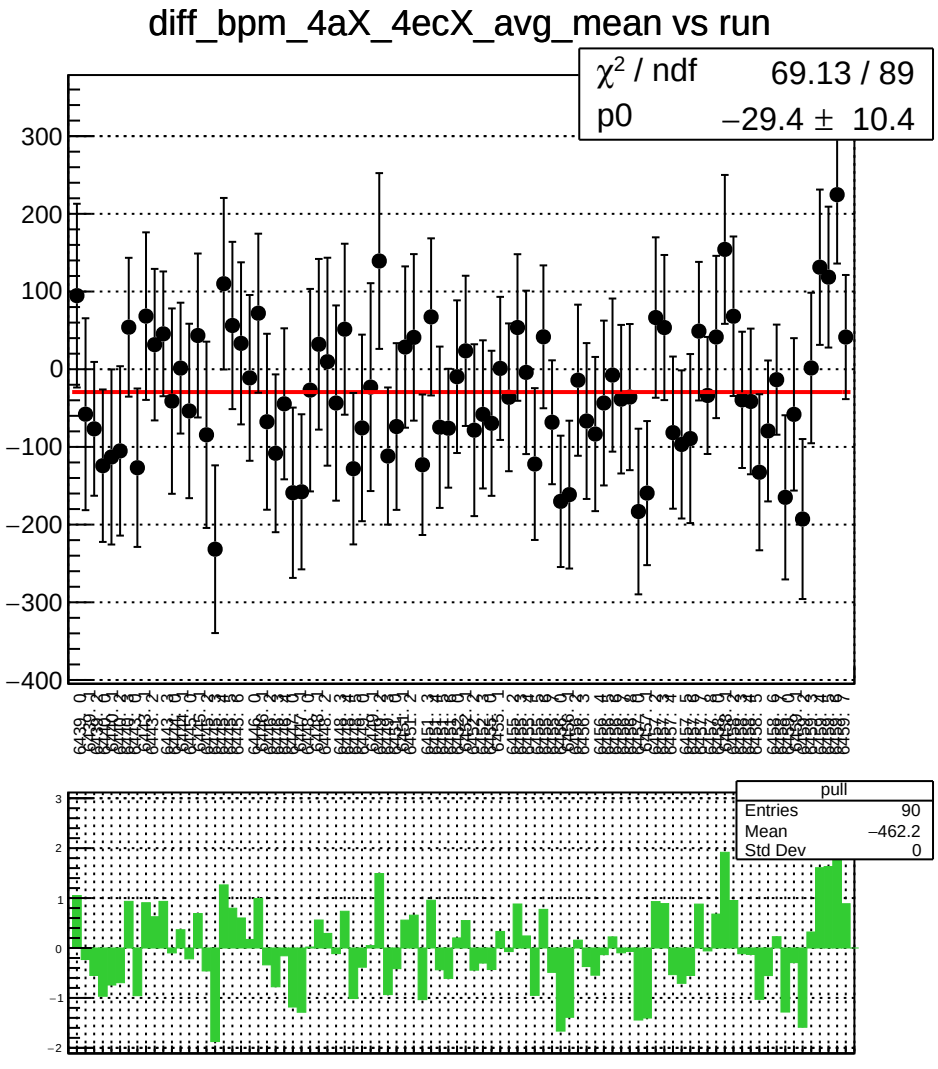

pull1D
Entries 90
Mean −0.002989
Std Dev 0.8762

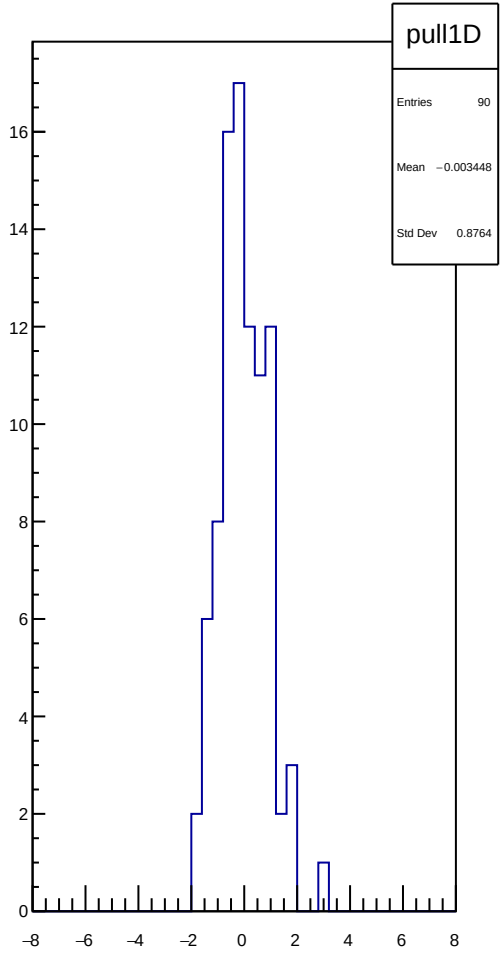

diff_bpm_4aX_4eX_avg_rms vs run
χ² / ndf 1.687e+04 / 89
p0 9673 ± 7.28
13000
12000
11000
10000
9000
8000

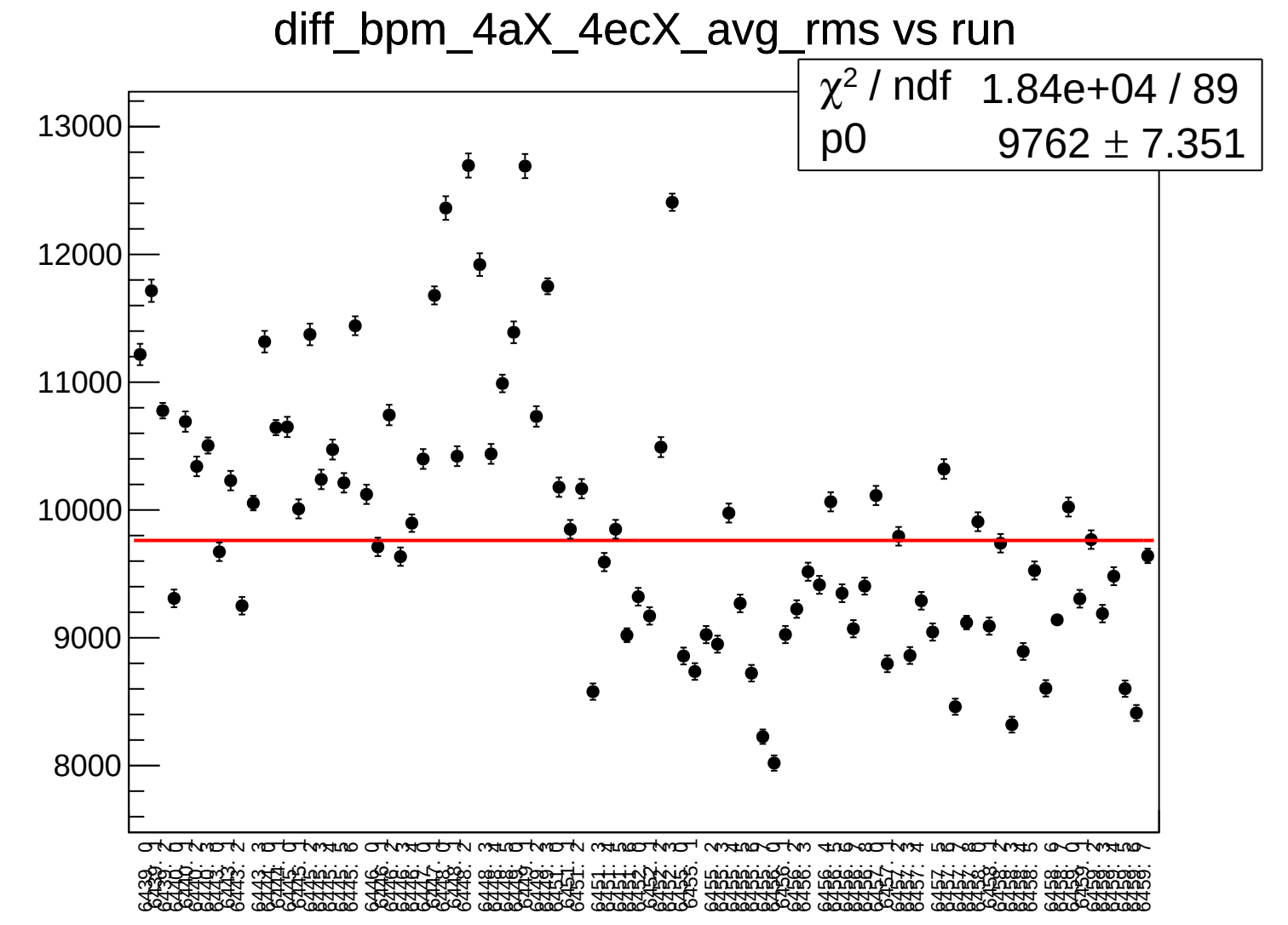

diff_bpm_4aX_4eX_dd_mean vs run
χ² / ndf 73.24 / 89
p0 −1.188 ± 0.6108
pull
Entries 90
Mean −98.76
Std Dev 0

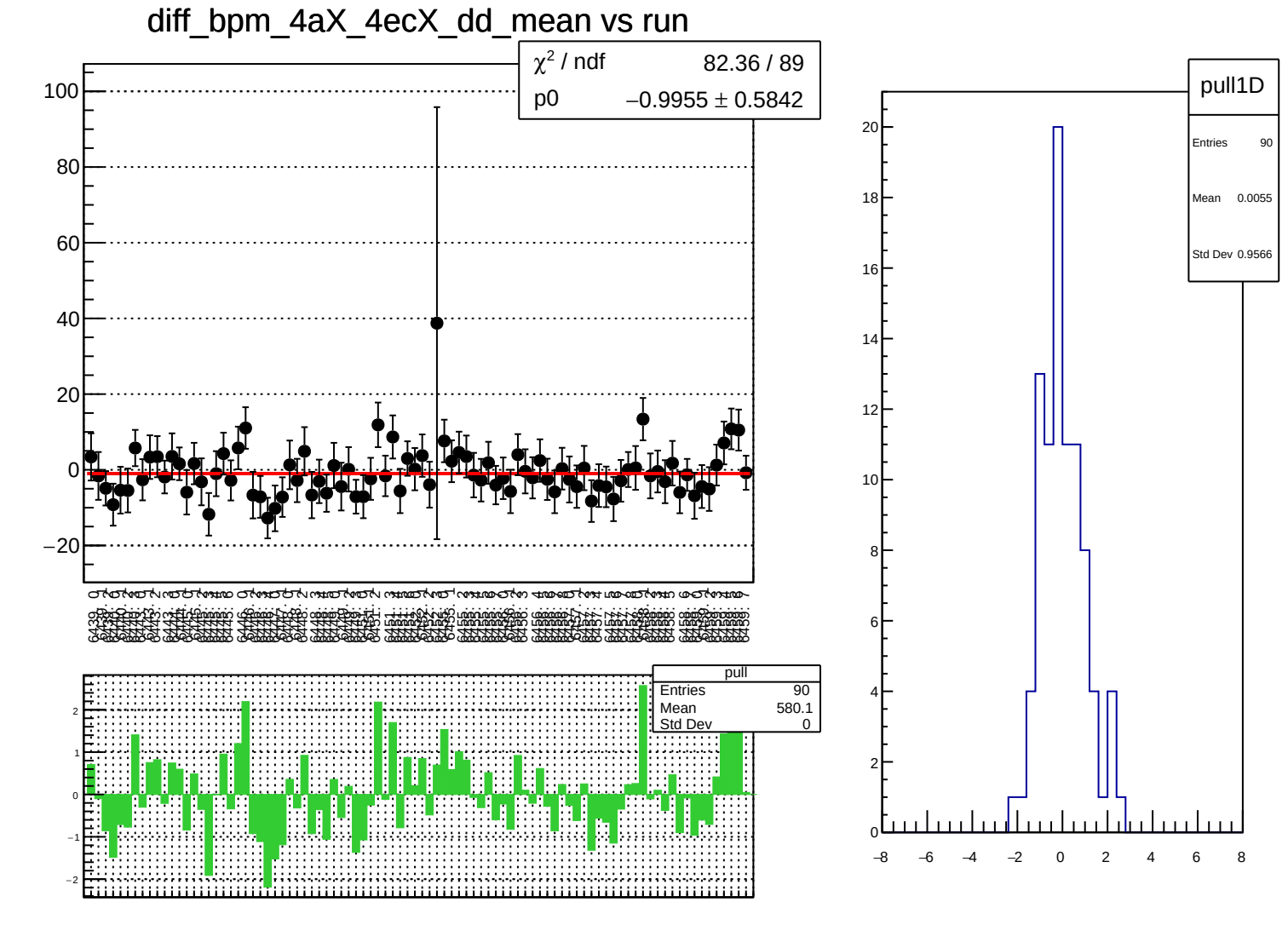

pull1D
Entries 90
Mean −0.01602
Std Dev 0.902

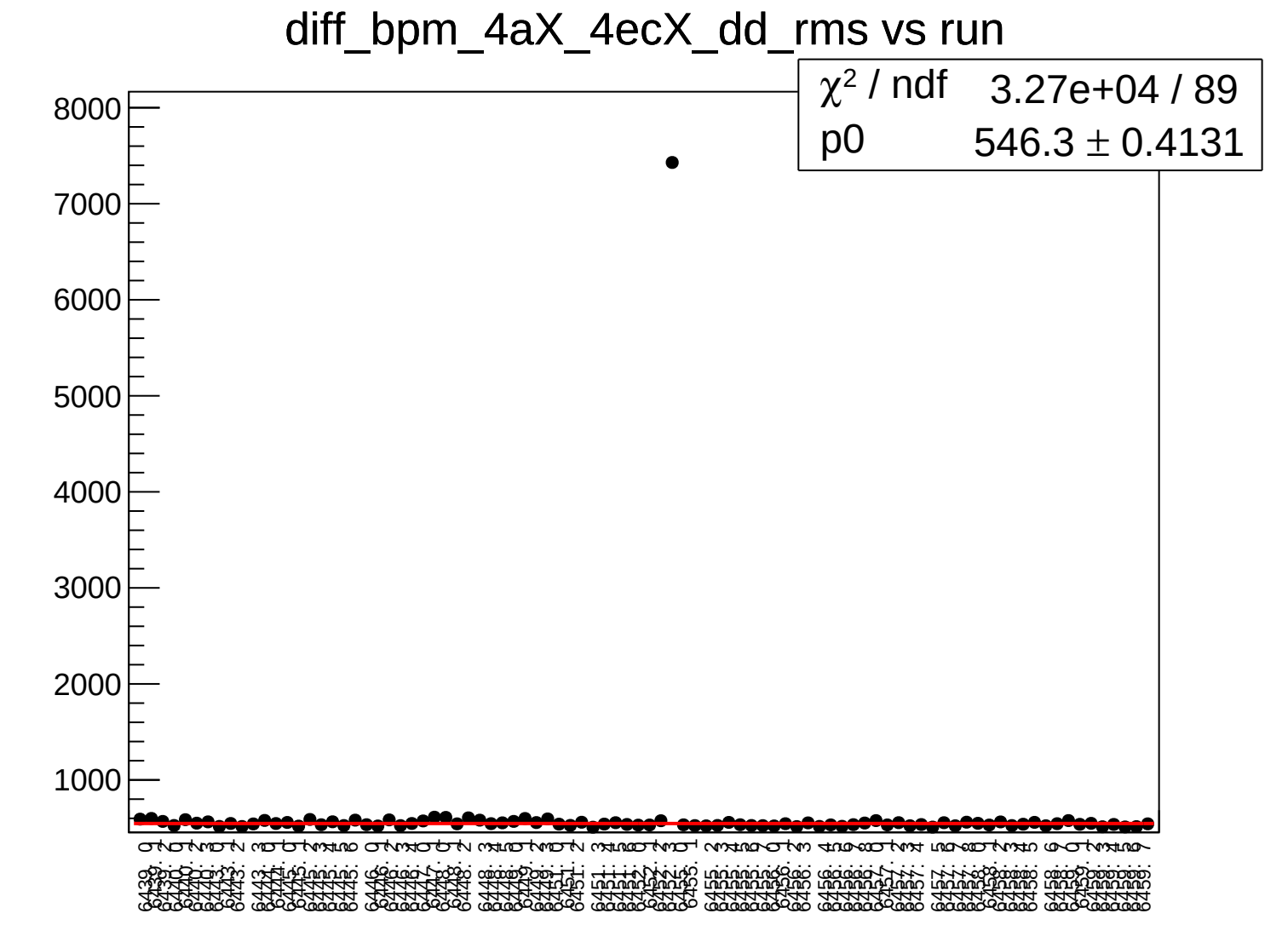

diff_bpm_4aX_4eX_dd_rms vs run
χ² / ndf 8320 / 89
p0 575.2 ± 0.4319
800
750
700
650
600
550
500

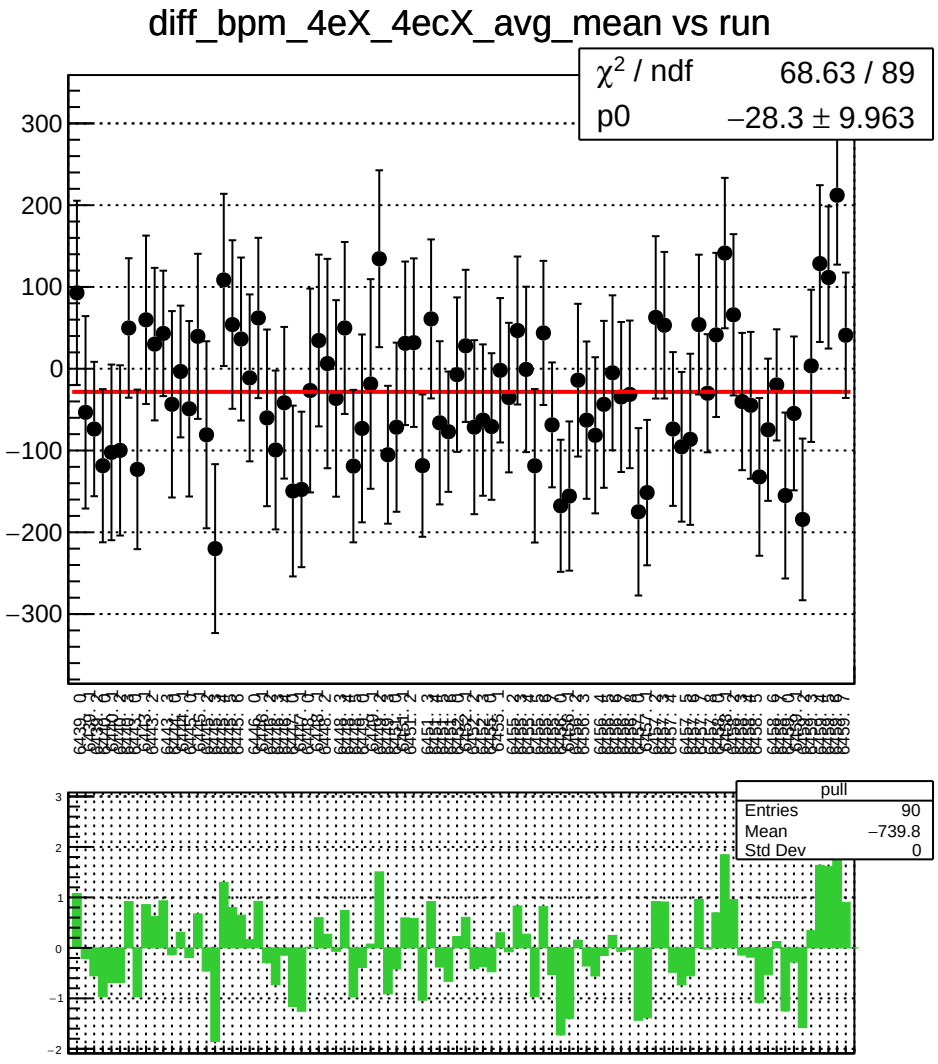

diff_bpm_4aX_4ecX_avg_mean vs run
χ² / ndf 69.13 / 89
p0 −29.4 ± 10.4
pull
Entries 90
Mean −462.2
Std Dev 0

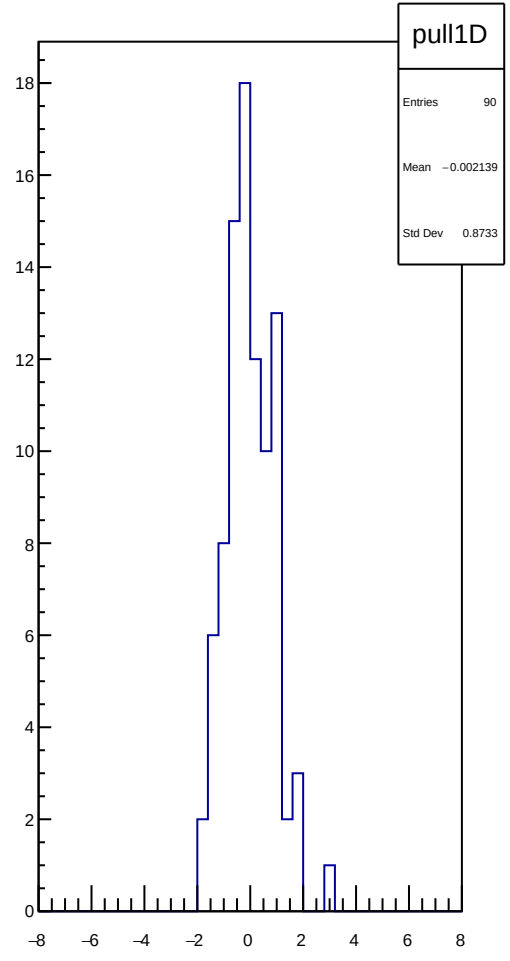

pull1D
Entries 90
Mean −0.003448
Std Dev 0.8764

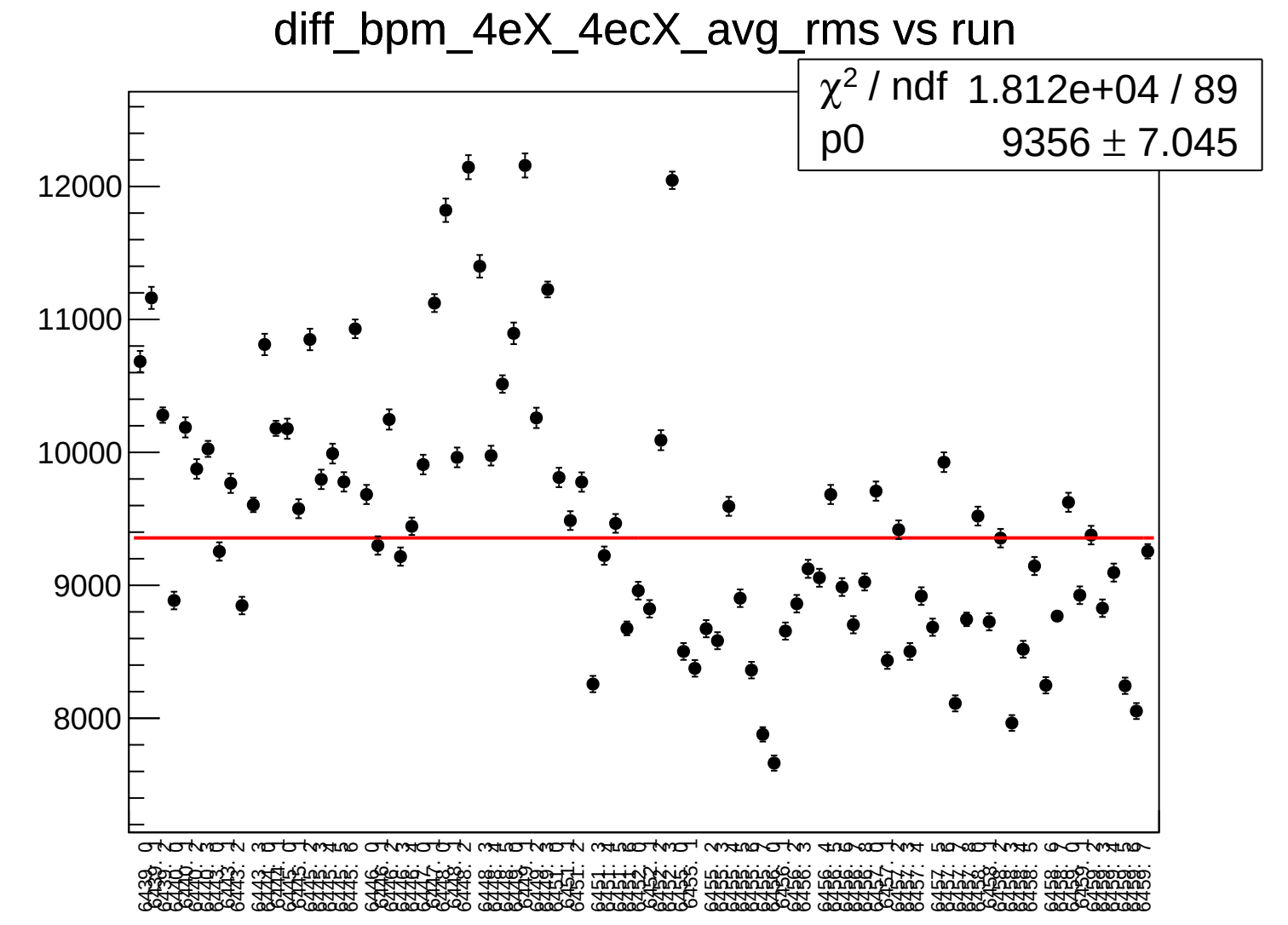

diff_bpm_4aX_4ecX_avg_rms vs run
χ² / ndf 1.84e+04 / 89
p0 9762 ± 7.351
13000
12000
11000
10000
9000
8000

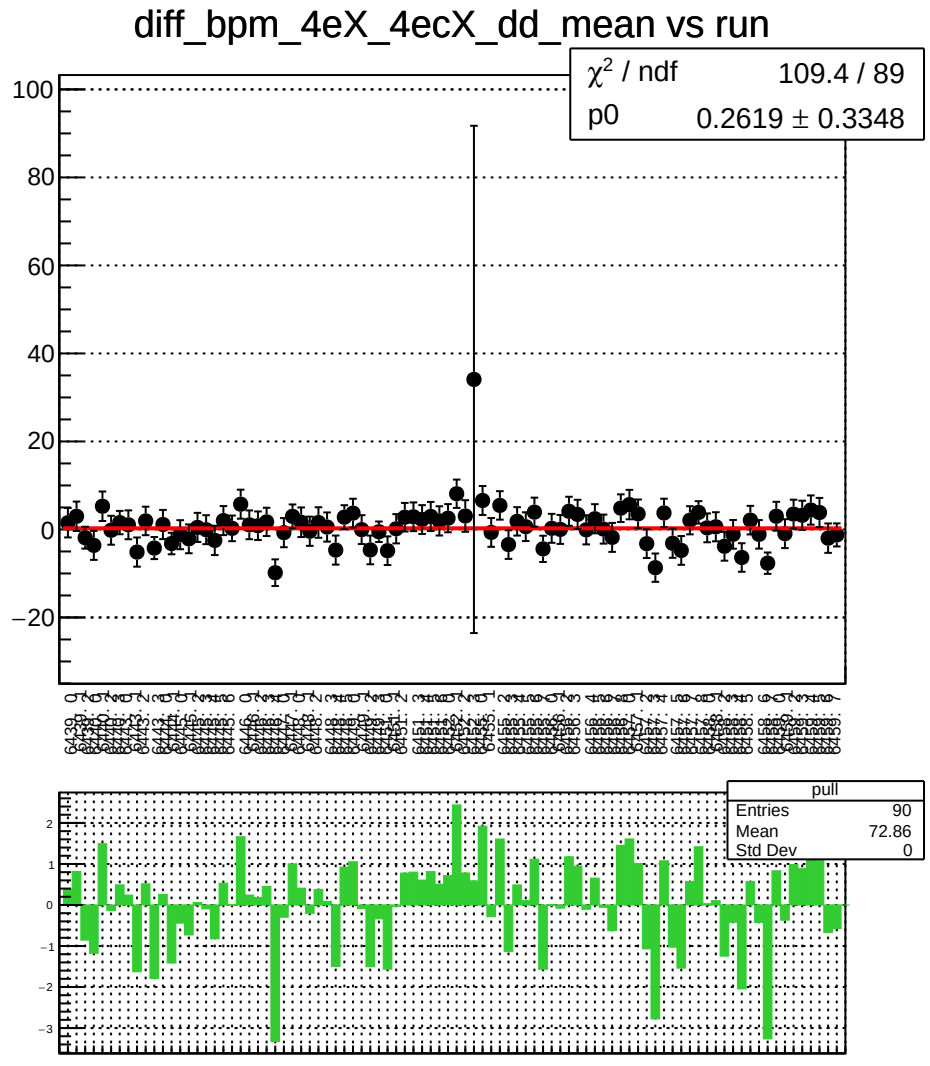

diff_bpm_4aX_4ecX_dd_mean vs run
χ² / ndf 82.36 / 89
p0 −0.9955 ± 0.5842
pull
Entries 90
Mean 580.1
Std Dev 0
pull1D
Entries 90
Mean 0.0055
Std Dev 0.9566

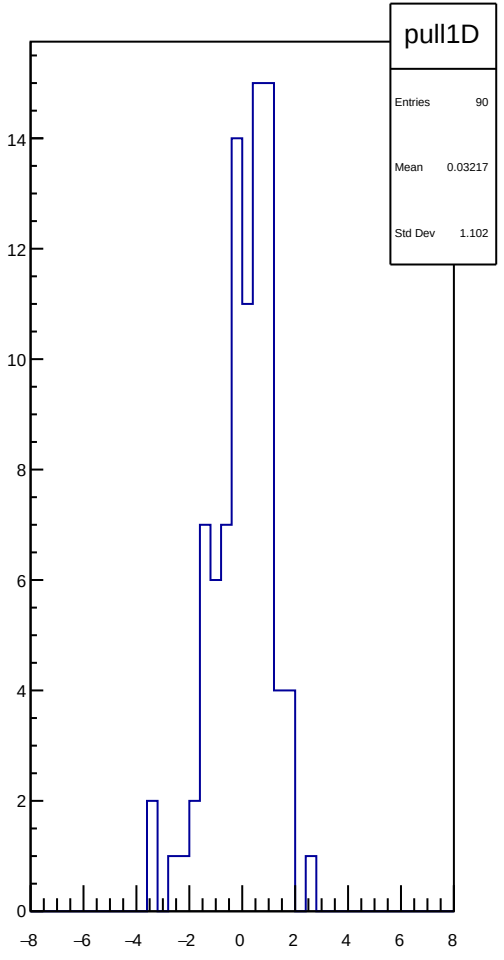

diff_bpm_4aX_4ecX_dd_rms vs run
χ² / ndf 3.27e+04 / 89
p0 546.3 ± 0.4131
8000
7000
6000
5000
4000
3000
2000
1000

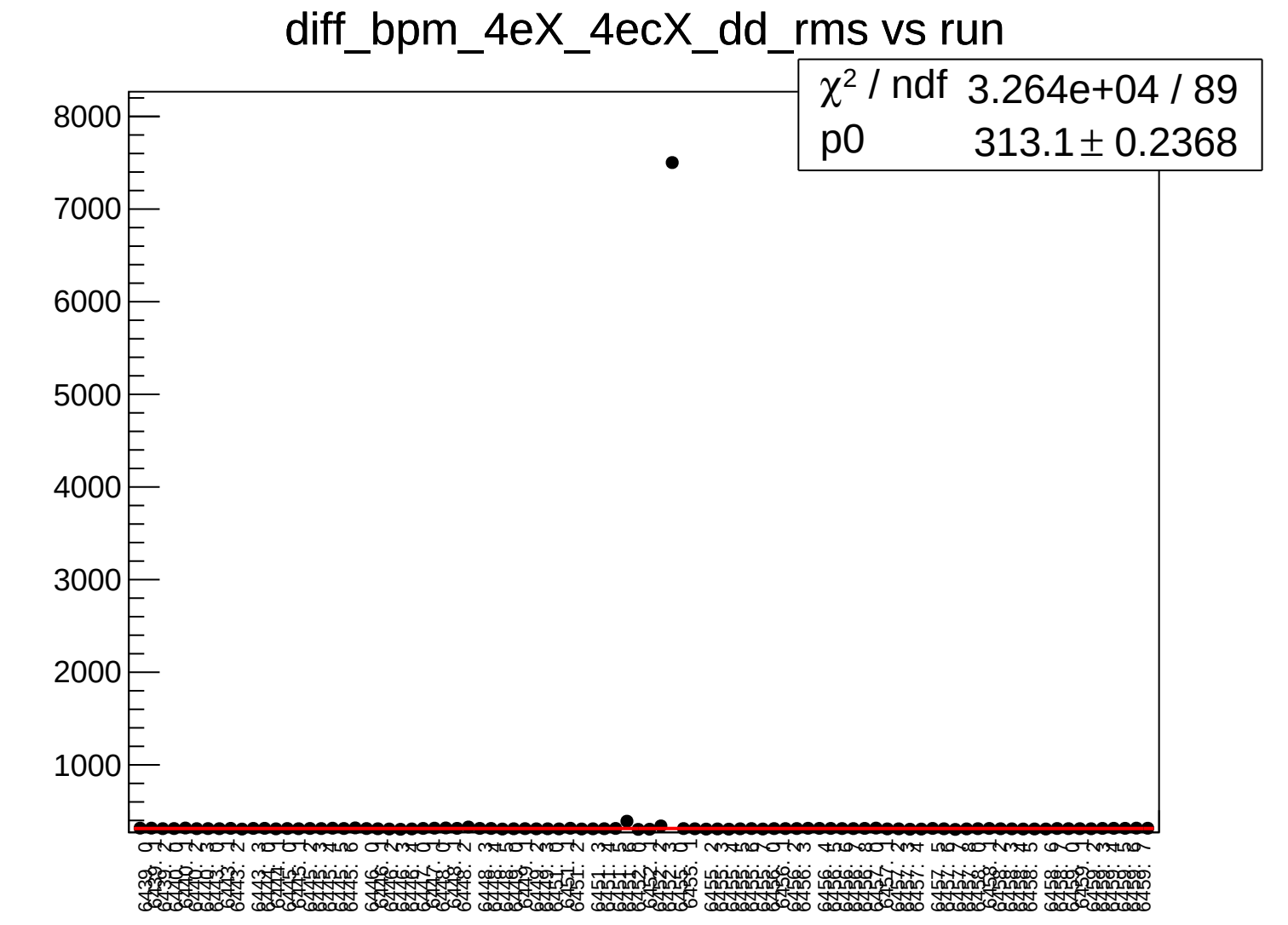

diff_bpm_4eX_4ecX_avg_mean vs run
χ² / ndf 68.63 / 89
p0 −28.3 ± 9.963
300
200
100
0
−100
−200
−300
pull
Entries 90
Mean −739.8
Std Dev 0
3
2
1
0
−1
−2

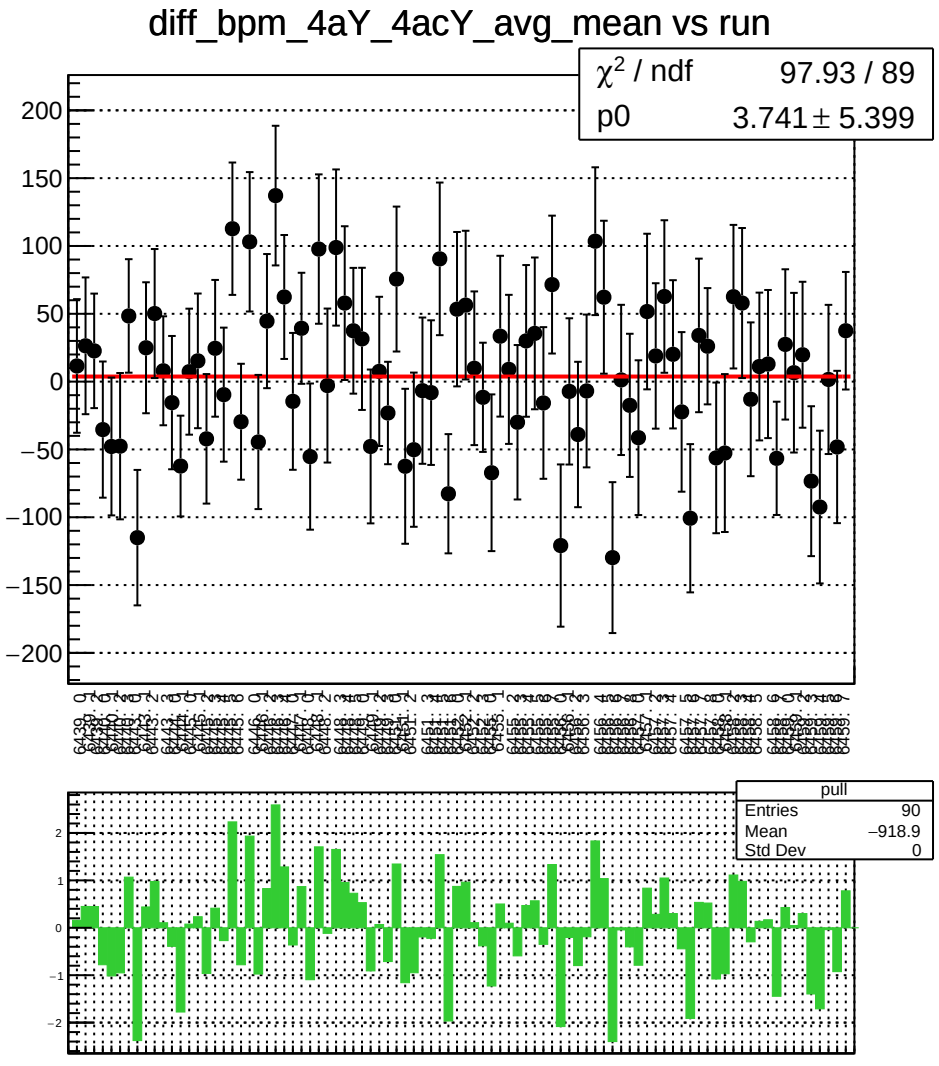

pull1D
Entries 90
Mean −0.002139
Std Dev 0.8733
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

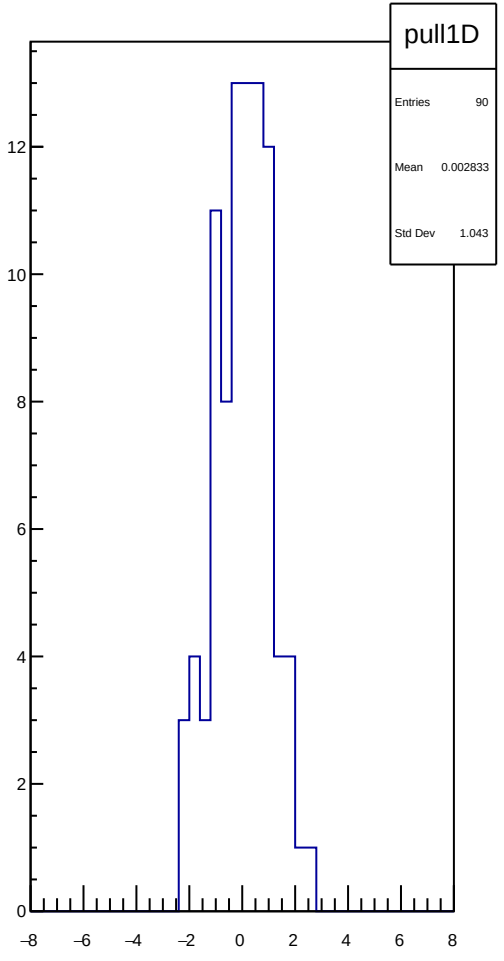

diff_bpm_4eX_4ecX_avg_rms vs run
χ² / ndf 1.812e+04 / 89
p0 9356 ± 7.045
12000
11000
10000
9000
8000

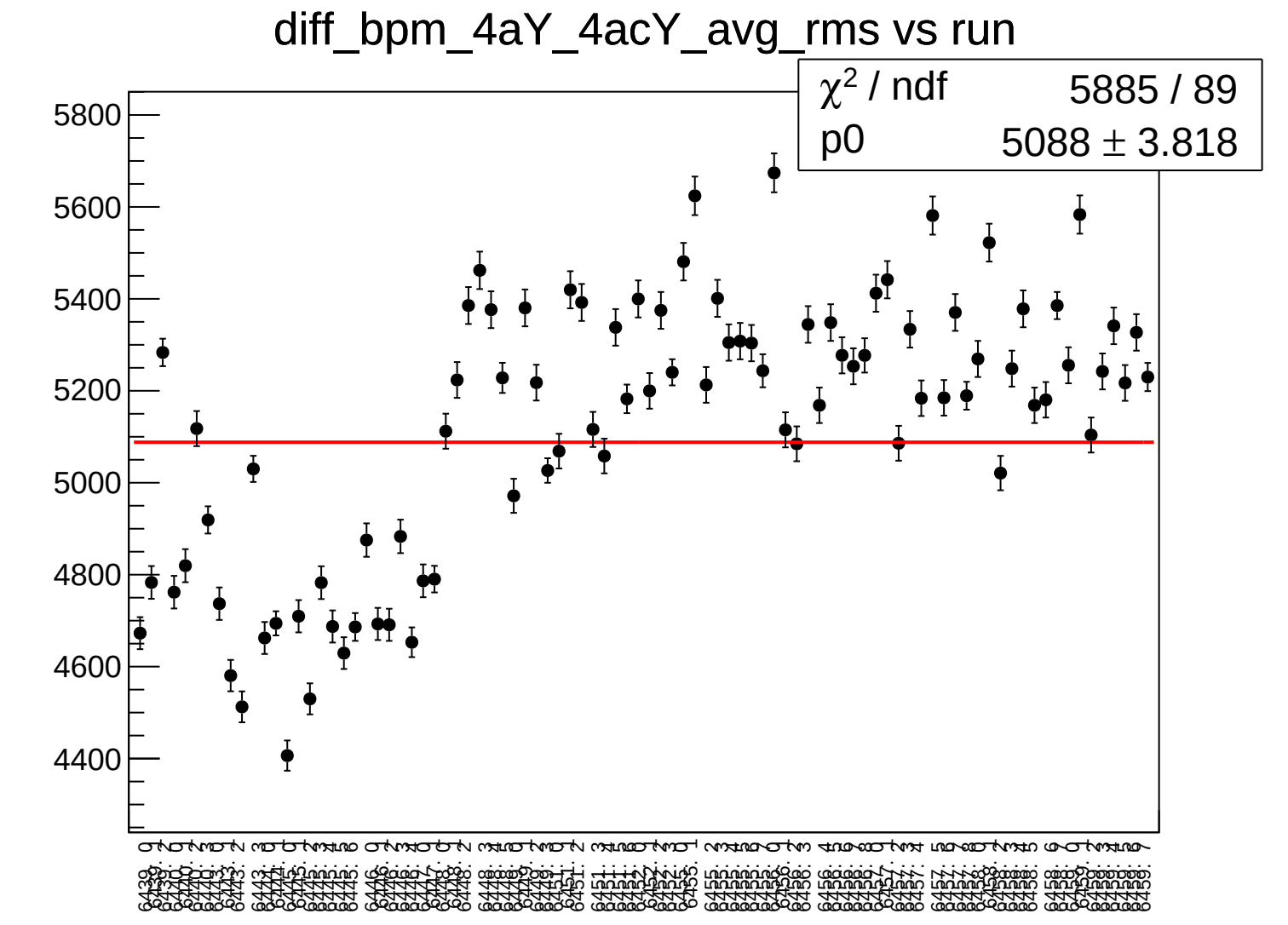

diff_bpm_4eX_4ecX_dd_mean vs run
χ² / ndf 109.4 / 89
p0 0.2619 ± 0.3348
pull
Entries 90
Mean 72.86
Std Dev 0

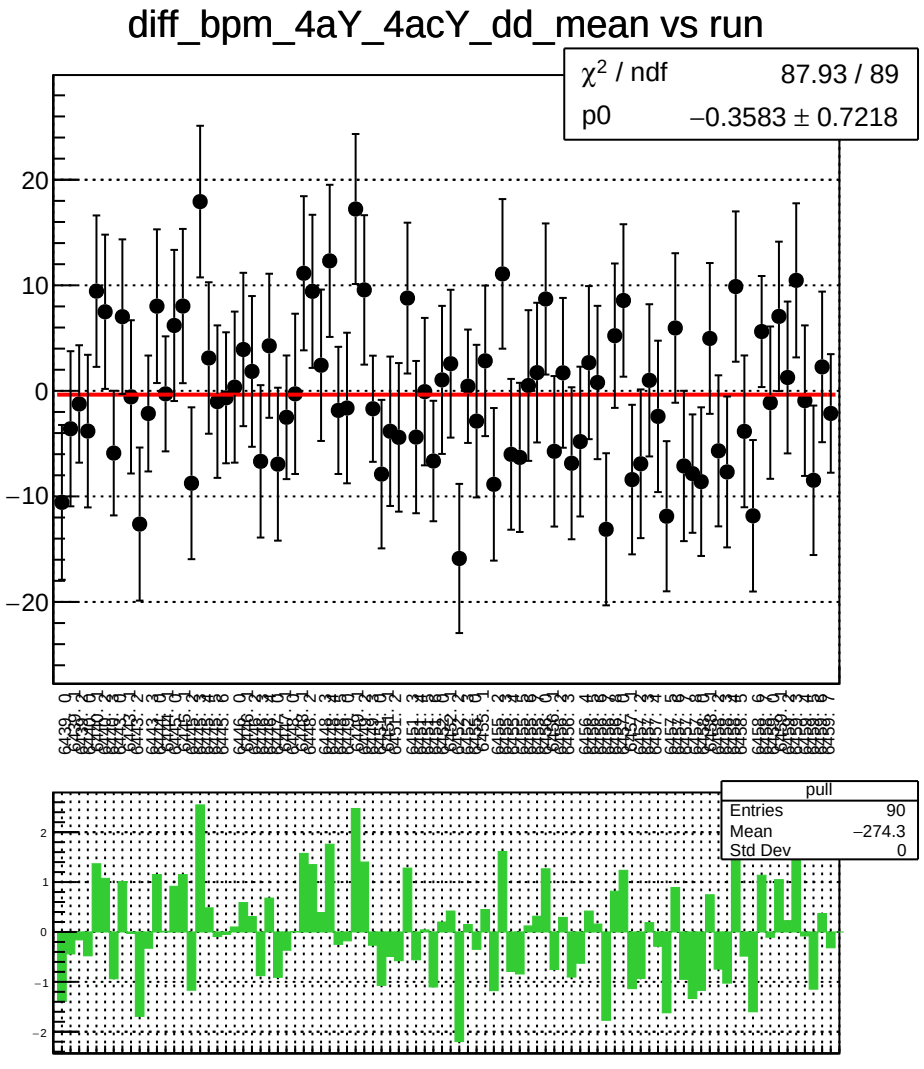

pull1D
Entries 90
Mean 0.03217
Std Dev 1.102

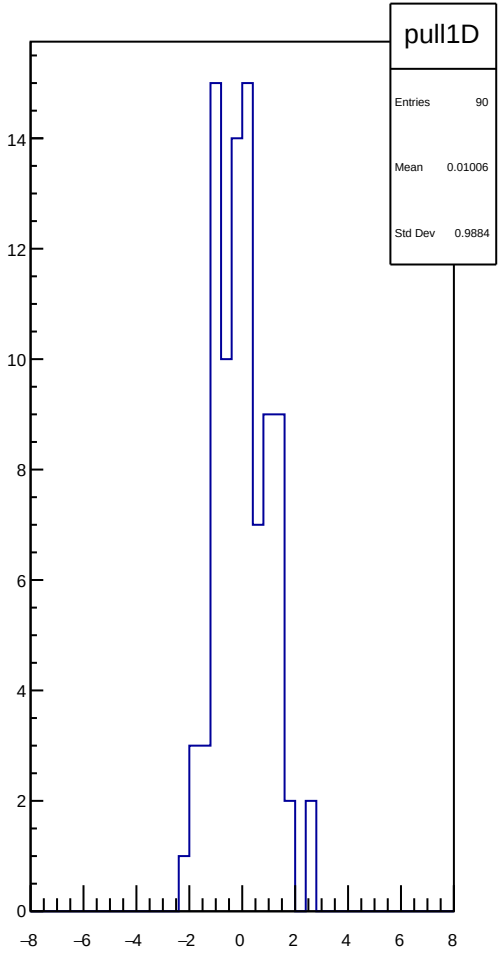

diff_bpm_4eX_4ecX_dd_rms vs run
χ² / ndf 3.264e+04 / 89
p0 313.1 ± 0.2368
8000
7000
6000
5000
4000
3000
2000
1000

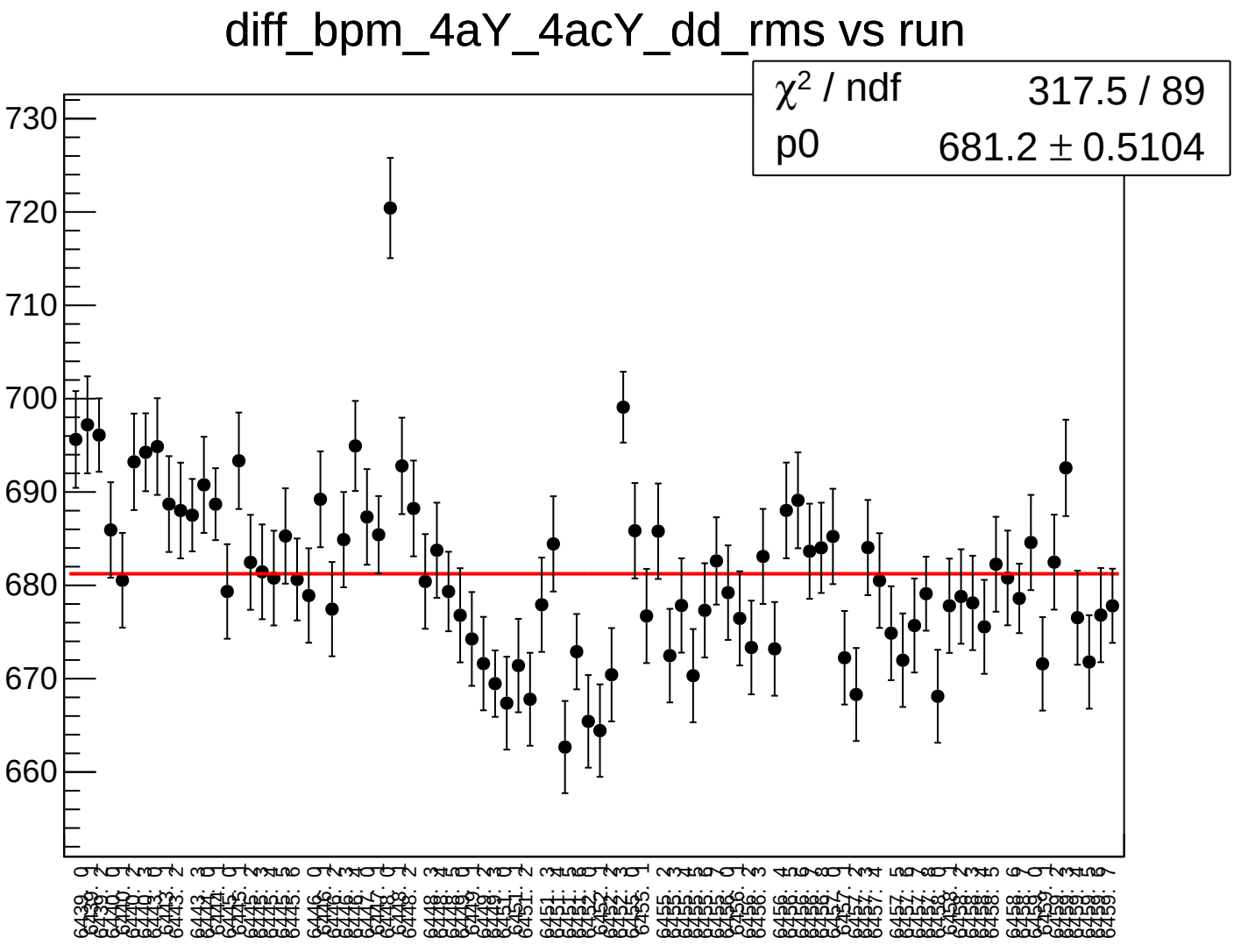

diff_bpm_4aY_4acY_avg_mean vs run
χ² / ndf 97.93 / 89
p0 3.741 ± 5.399
pull
Entries 90
Mean −918.9
Std Dev 0

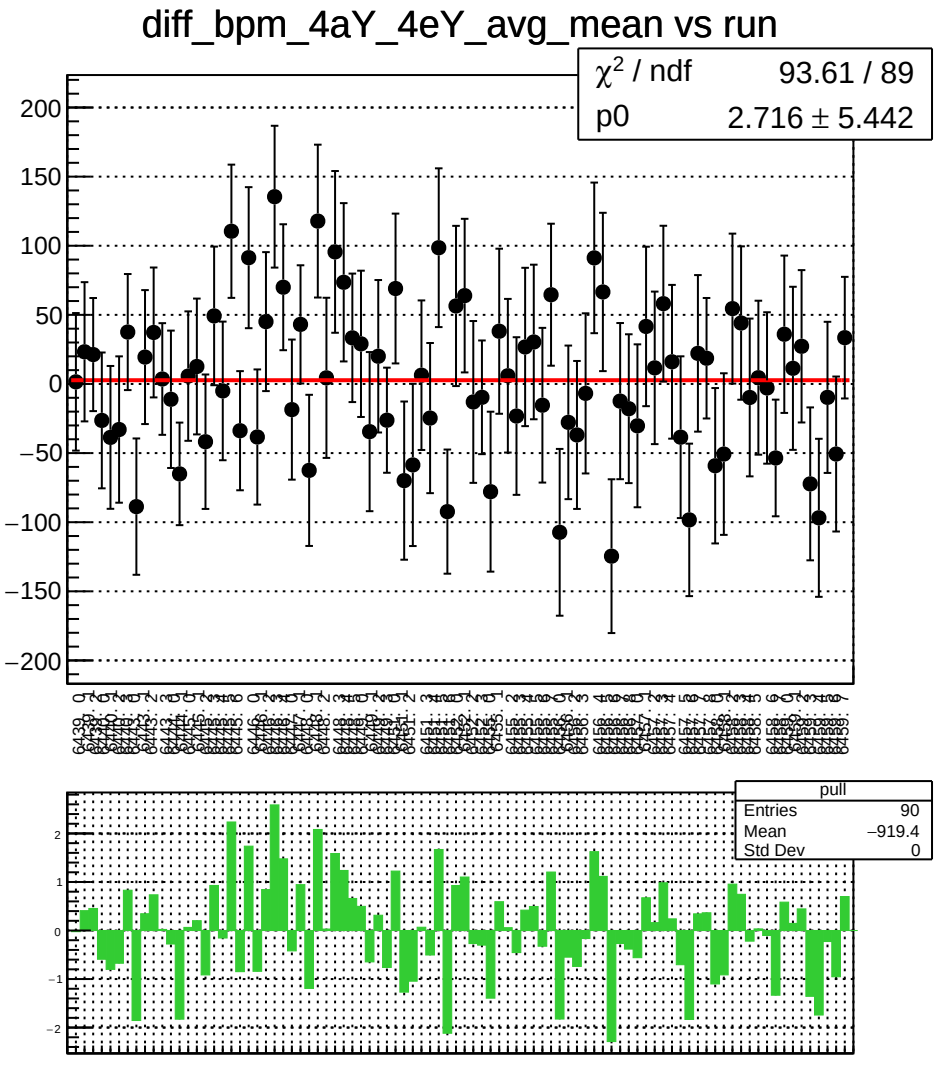

pull1D
Entries 90
Mean 0.002833
Std Dev 1.043

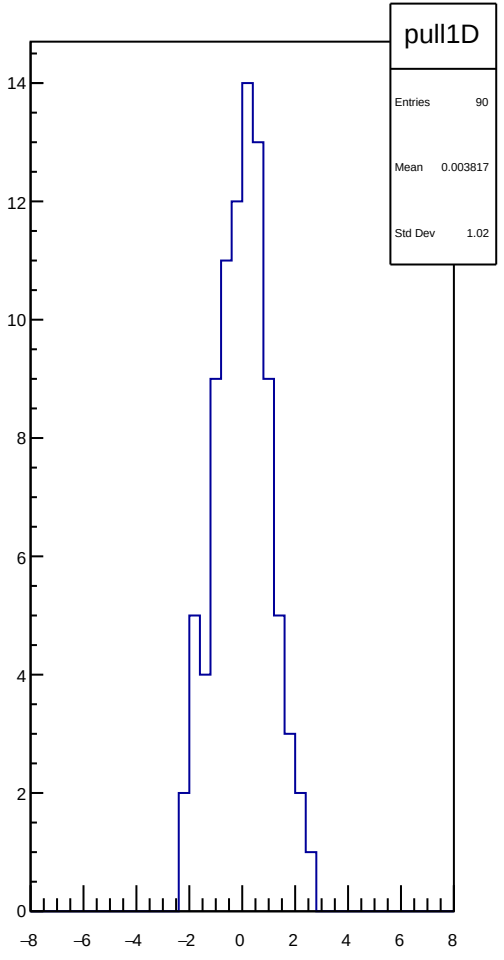

diff_bpm_4aY_4acY_avg_rms vs run
χ^2 / ndf 5885 / 89
p0 5088 ± 3.818
5800
5600
5400
5200
5000
4800
4600
4400

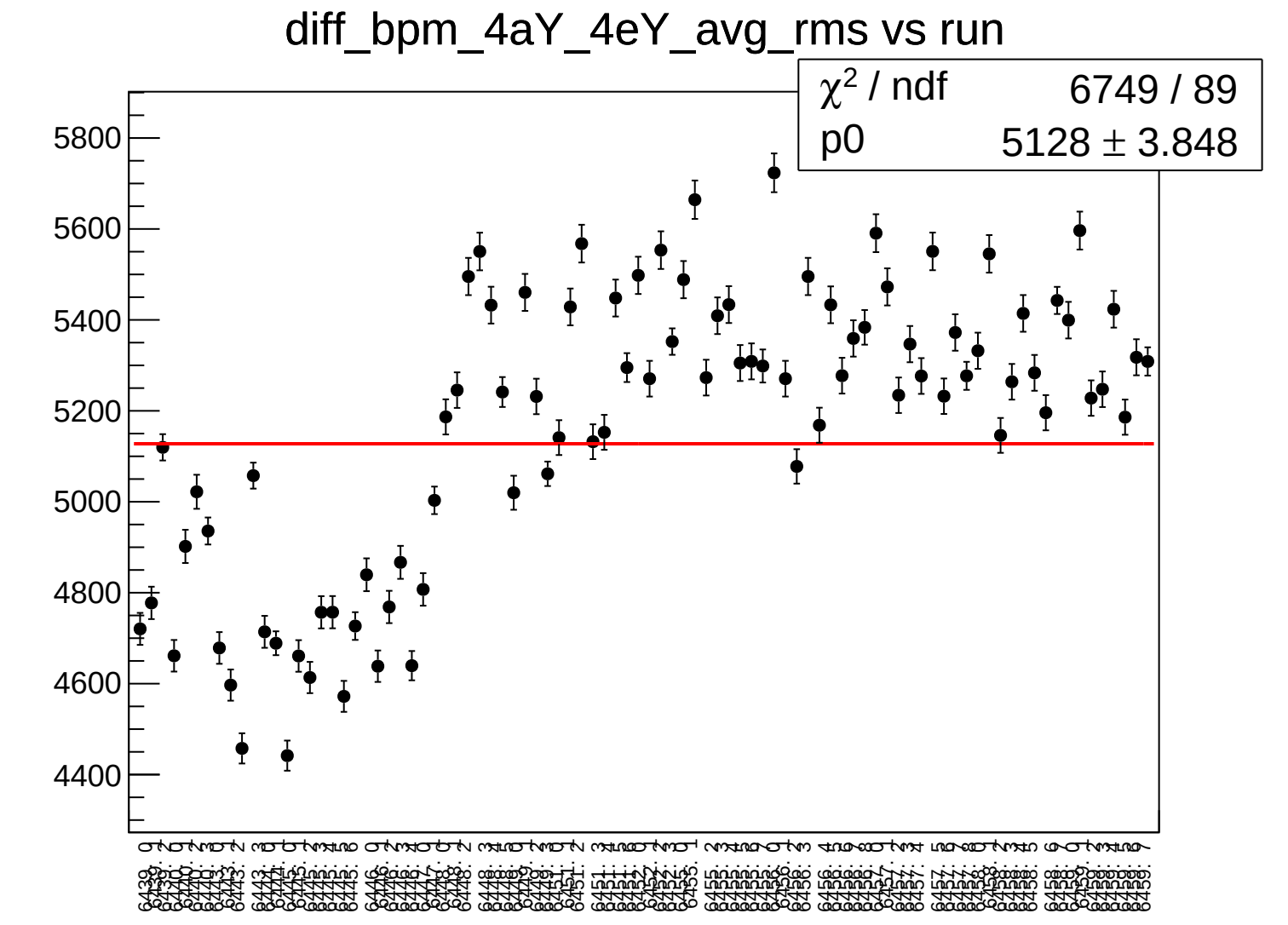

diff_bpm_4aY_4acY_dd_mean vs run
χ² / ndf 87.93 / 89
p0 −0.3583 ± 0.7218
pull
Entries 90
Mean −274.3
Std Dev 0

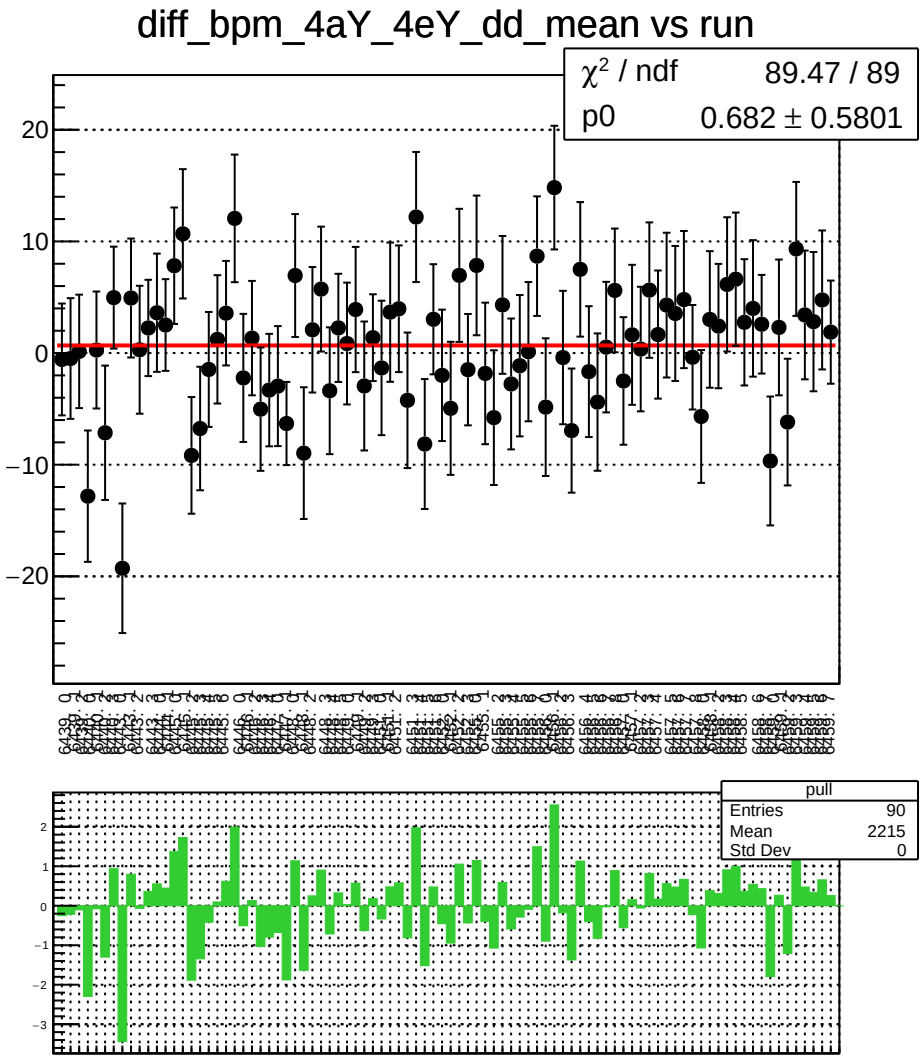

pull1D
Entries 90
Mean 0.01006
Std Dev 0.9884

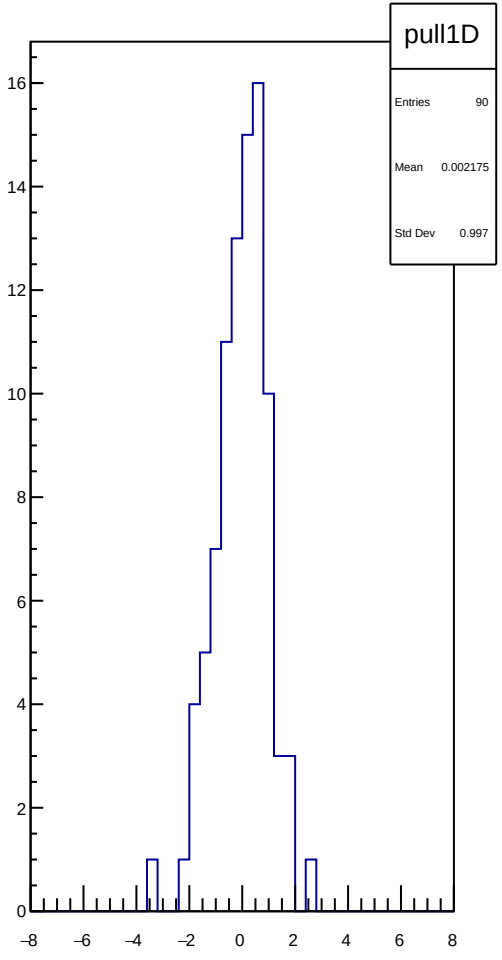

diff_bpm_4aY_4acY_dd_rms vs run
χ² / ndf 317.5 / 89
p0 681.2 ± 0.5104
730
720
710
700
690
680
670
660

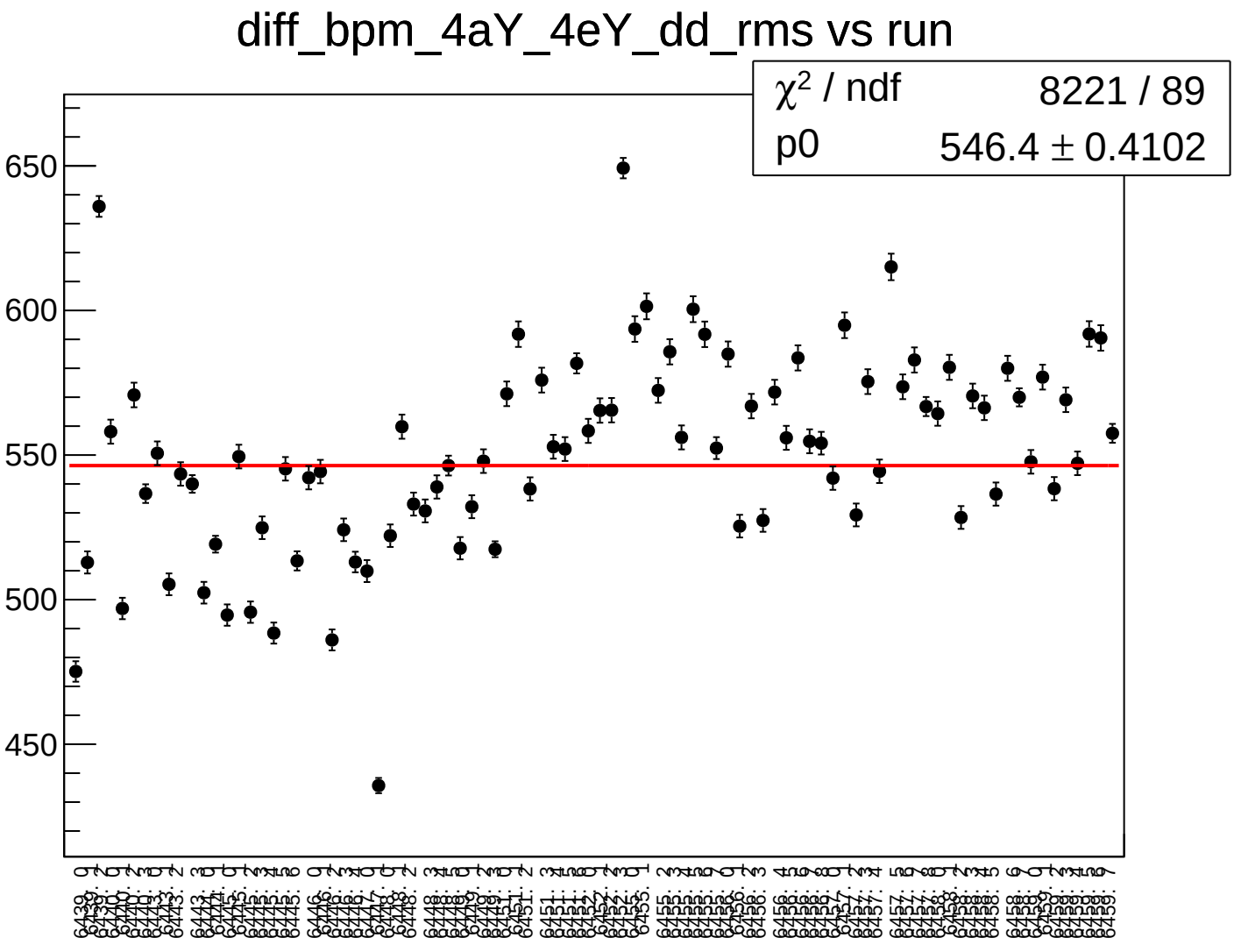

diff_bpm_4aY_4eY_avg_mean vs run
χ² / ndf 93.61 / 89
p0 2.716 ± 5.442
pull
Entries 90
Mean −919.4
Std Dev 0

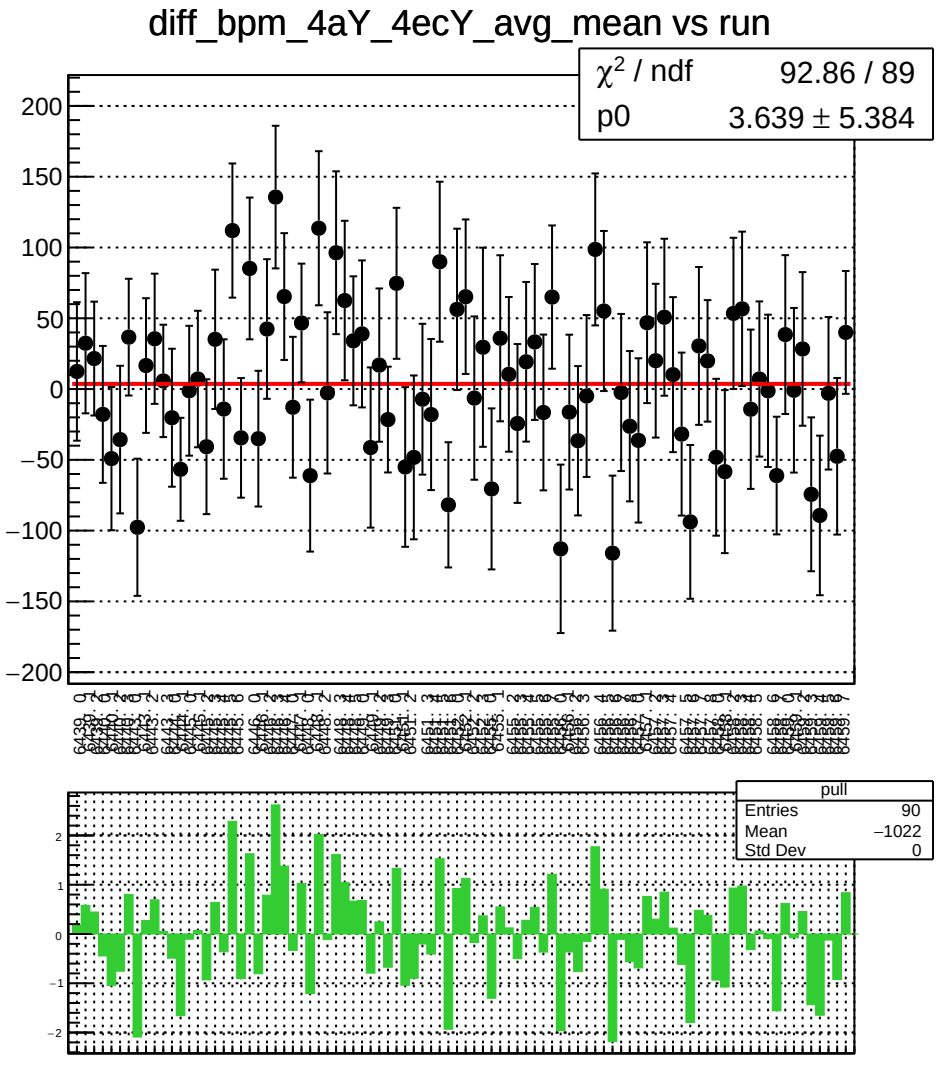

pull1D
Entries 90
Mean 0.003817
Std Dev 1.02

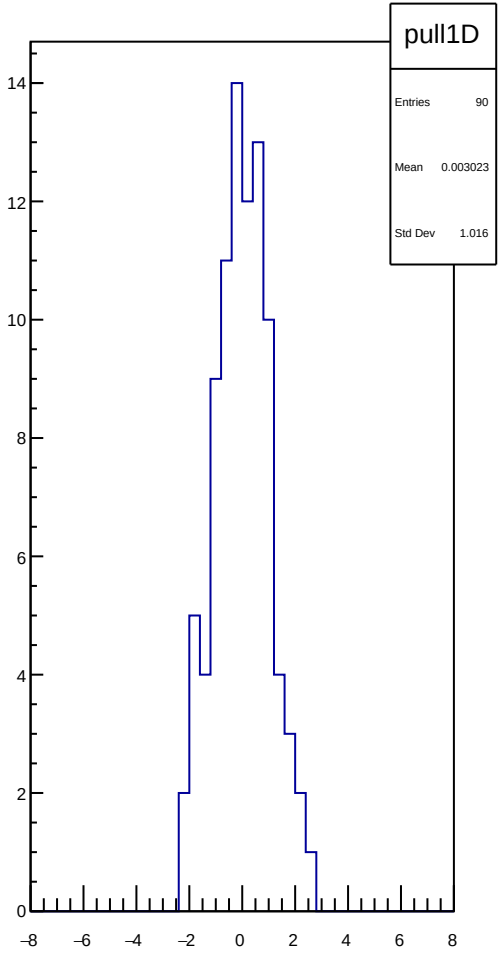

diff_bpm_4aY_4eY_avg_rms vs run
χ² / ndf 6749 / 89
p0 5128 ± 3.848
5800
5600
5400
5200
5000
4800
4600
4400

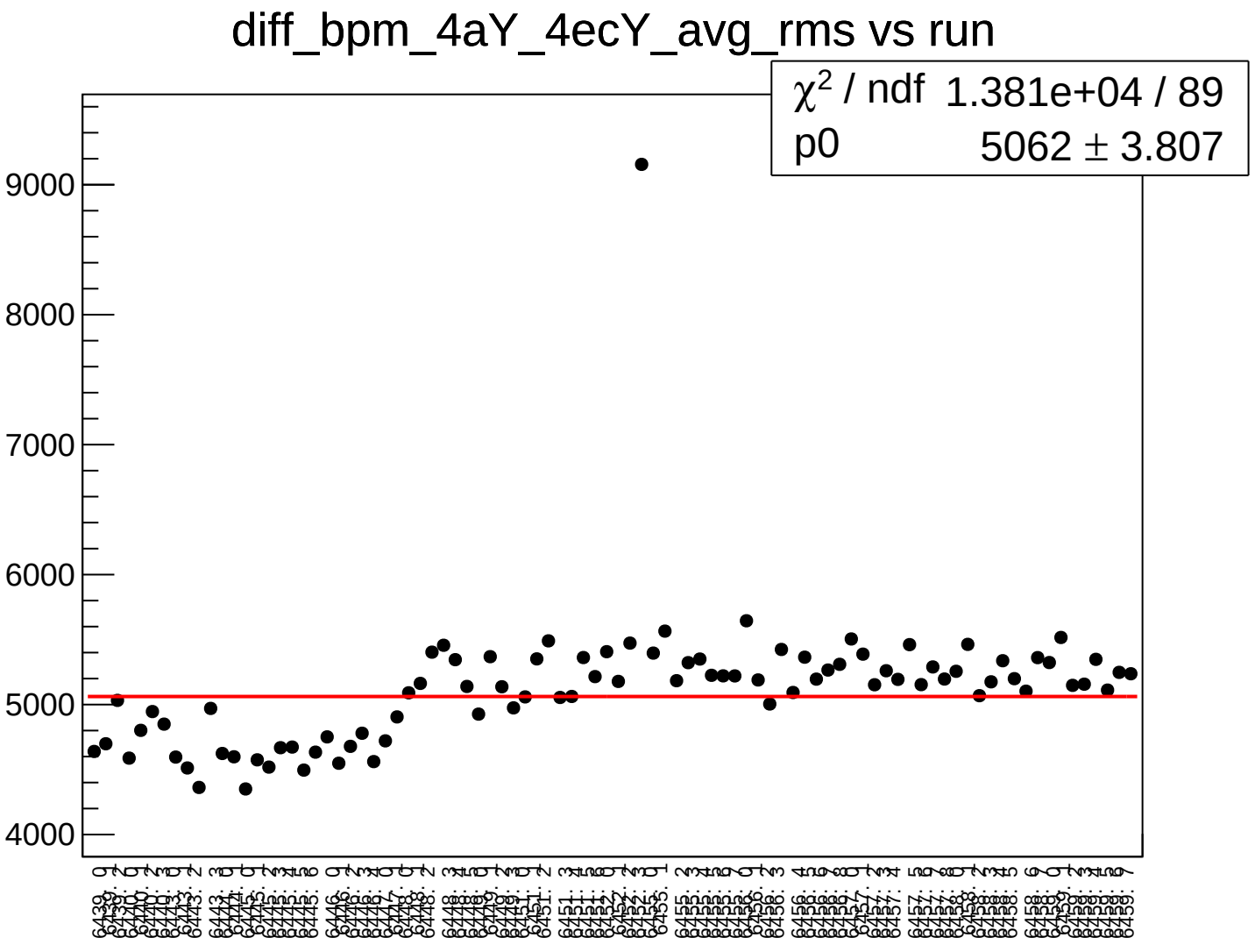

diff_bpm_4aY_4eY_dd_mean vs run
χ² / ndf 89.47 / 89
p0 0.682 ± 0.5801
pull
Entries 90
Mean 2215
Std Dev 0

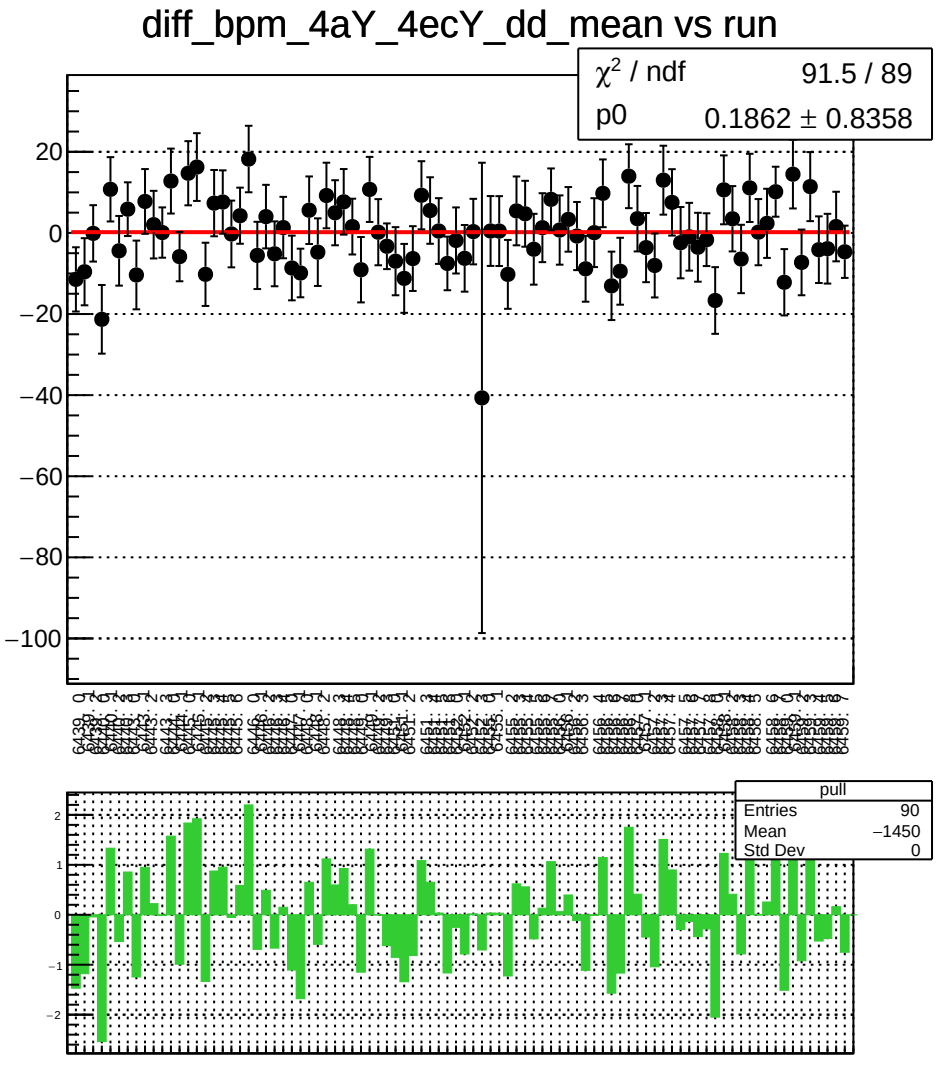

pull1D
Entries 90
Mean 0.002175
Std Dev 0.997

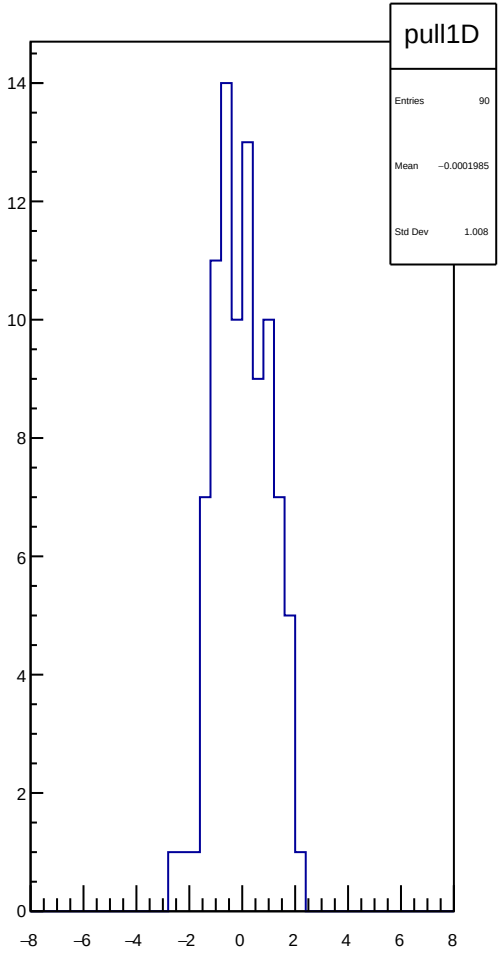

diff_bpm_4aY_4eY_dd_rms vs run
χ² / ndf 8221 / 89
p0 546.4 ± 0.4102
650
600
550
500
450

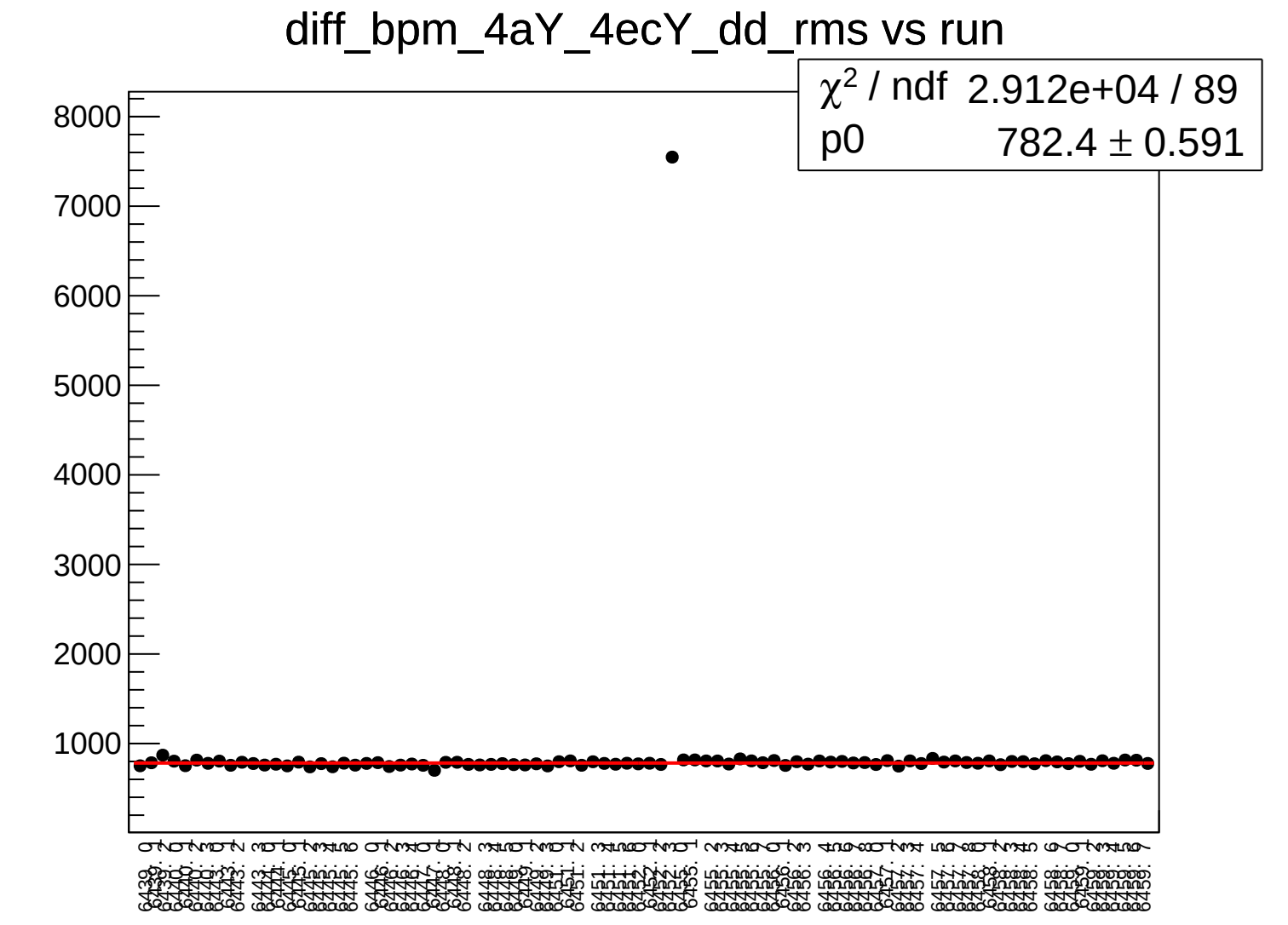

diff_bpm_4aY_4ecY_avg_mean vs run
χ² / ndf 92.86 / 89
p0 3.639 ± 5.384
pull
Entries 90
Mean −1022
Std Dev 0

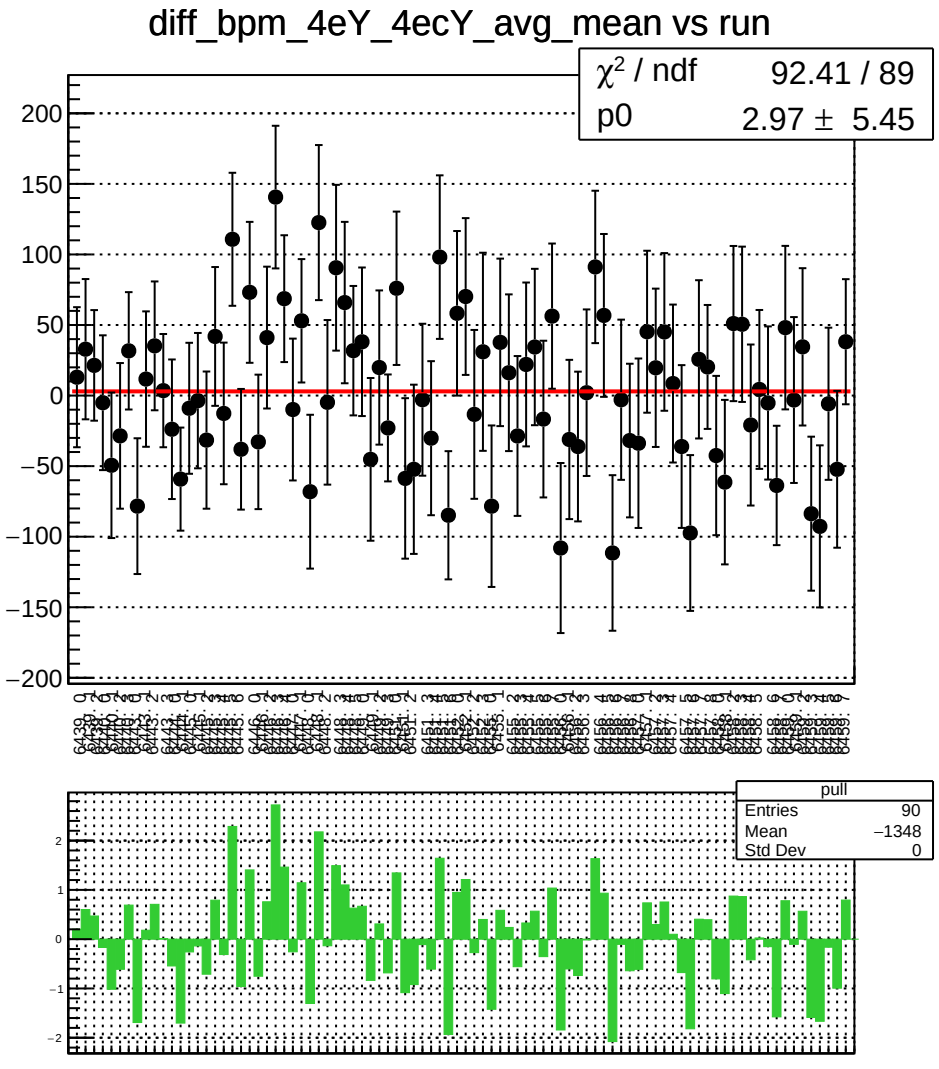

pull1D
Entries 90
Mean 0.003023
Std Dev 1.016

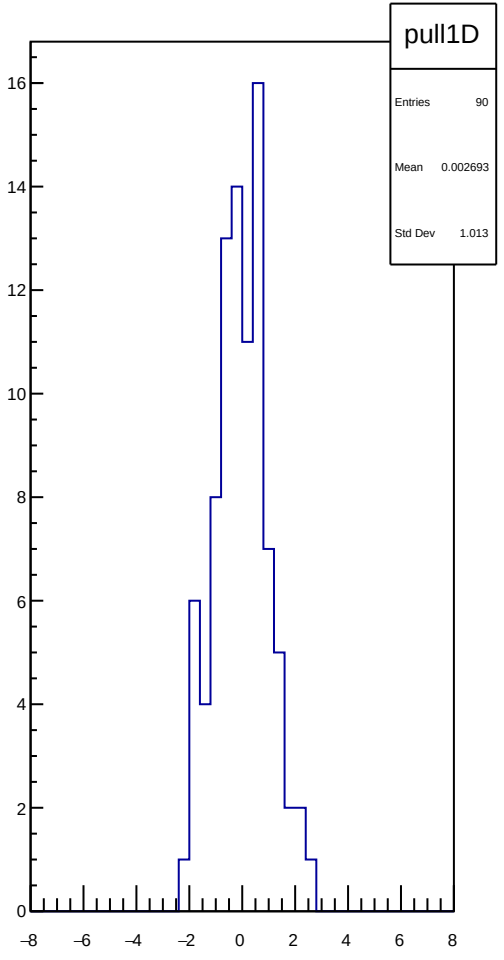

diff_bpm_4aY_4ecY_avg_rms vs run
χ² / ndf 1.381e+04 / 89
p0 5062 ± 3.807
9000
8000
7000
6000
5000
4000

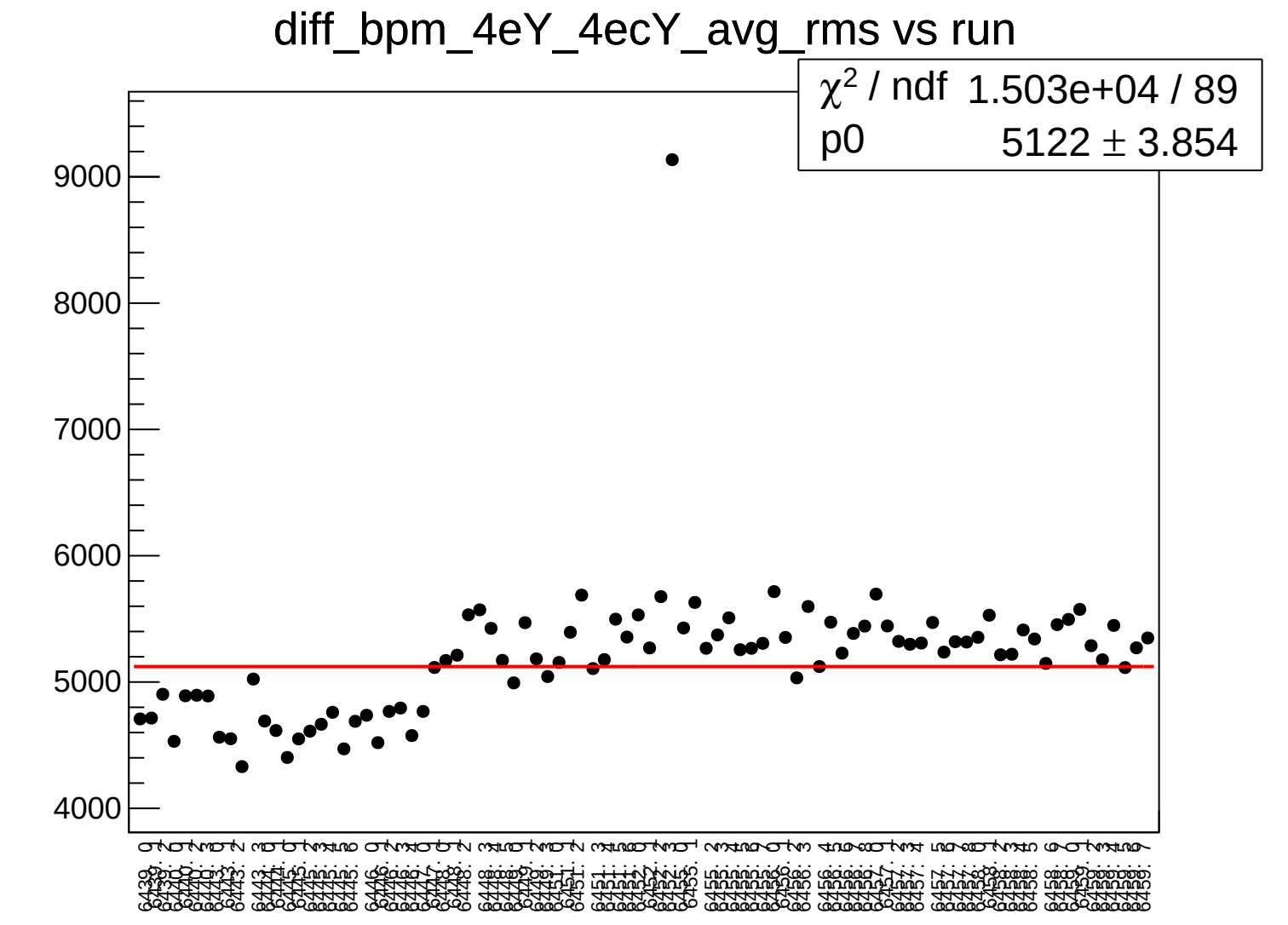

diff_bpm_4aY_4ecY_dd_mean vs run
χ² / ndf 91.5 / 89
p0 0.1862 ± 0.8358
pull
Entries 90
Mean −1450
Std Dev 0

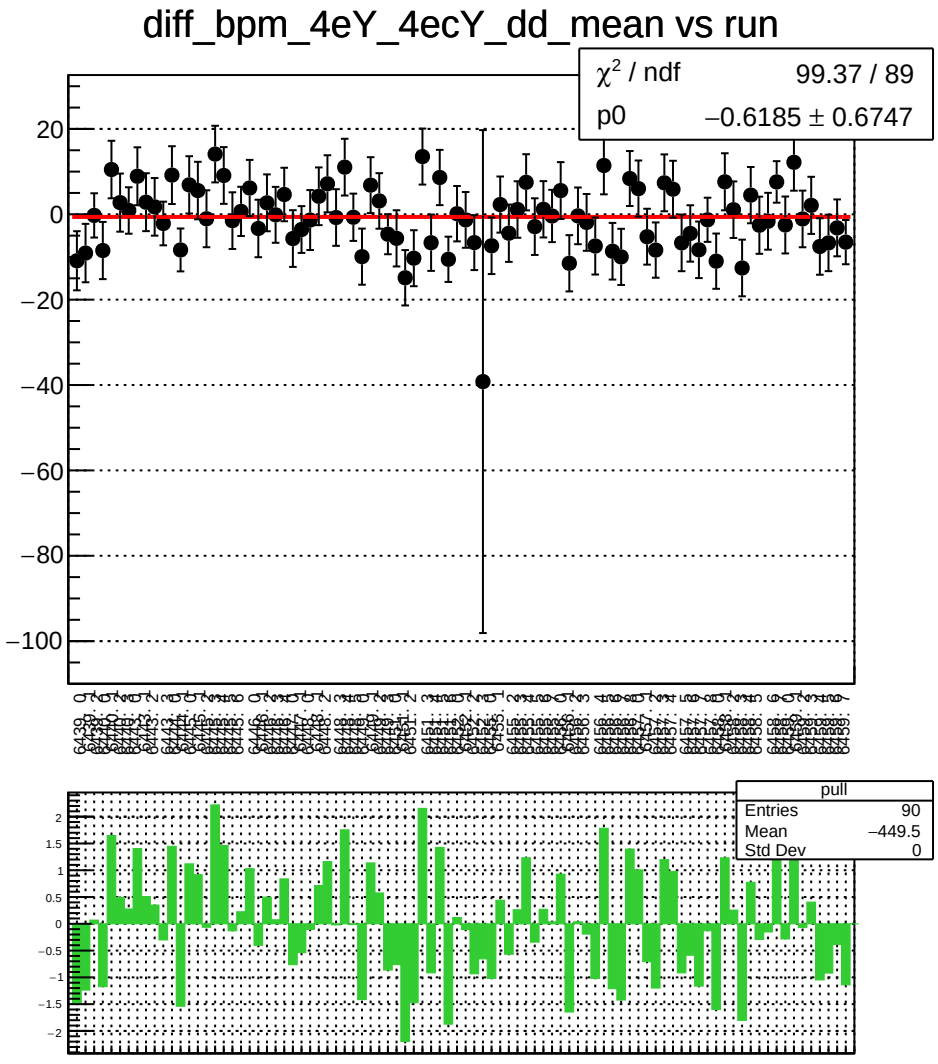

pull1D
Entries 90
Mean −0.0001985
Std Dev 1.008

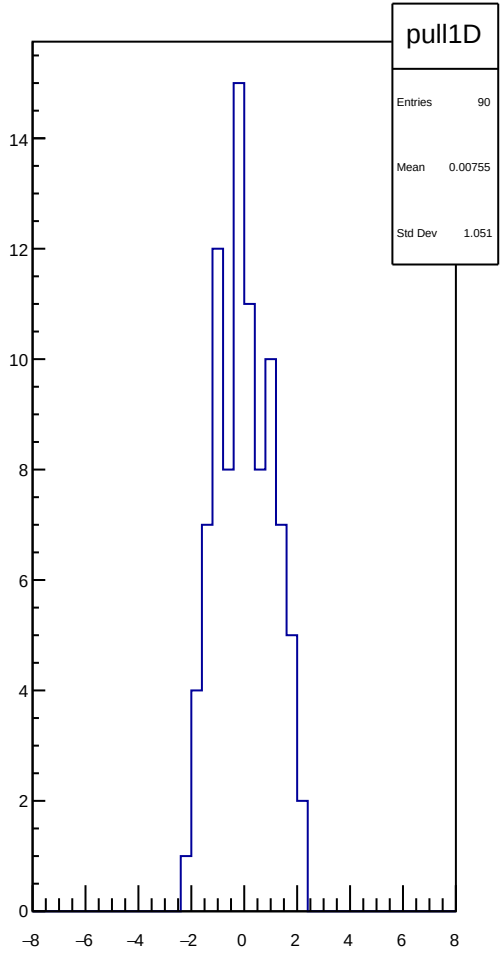

diff_bpm_4aY_4ecY_dd_rms vs run
χ² / ndf 2.912e+04 / 89
p0 782.4 ± 0.591
8000
7000
6000
5000
4000
3000
2000
1000

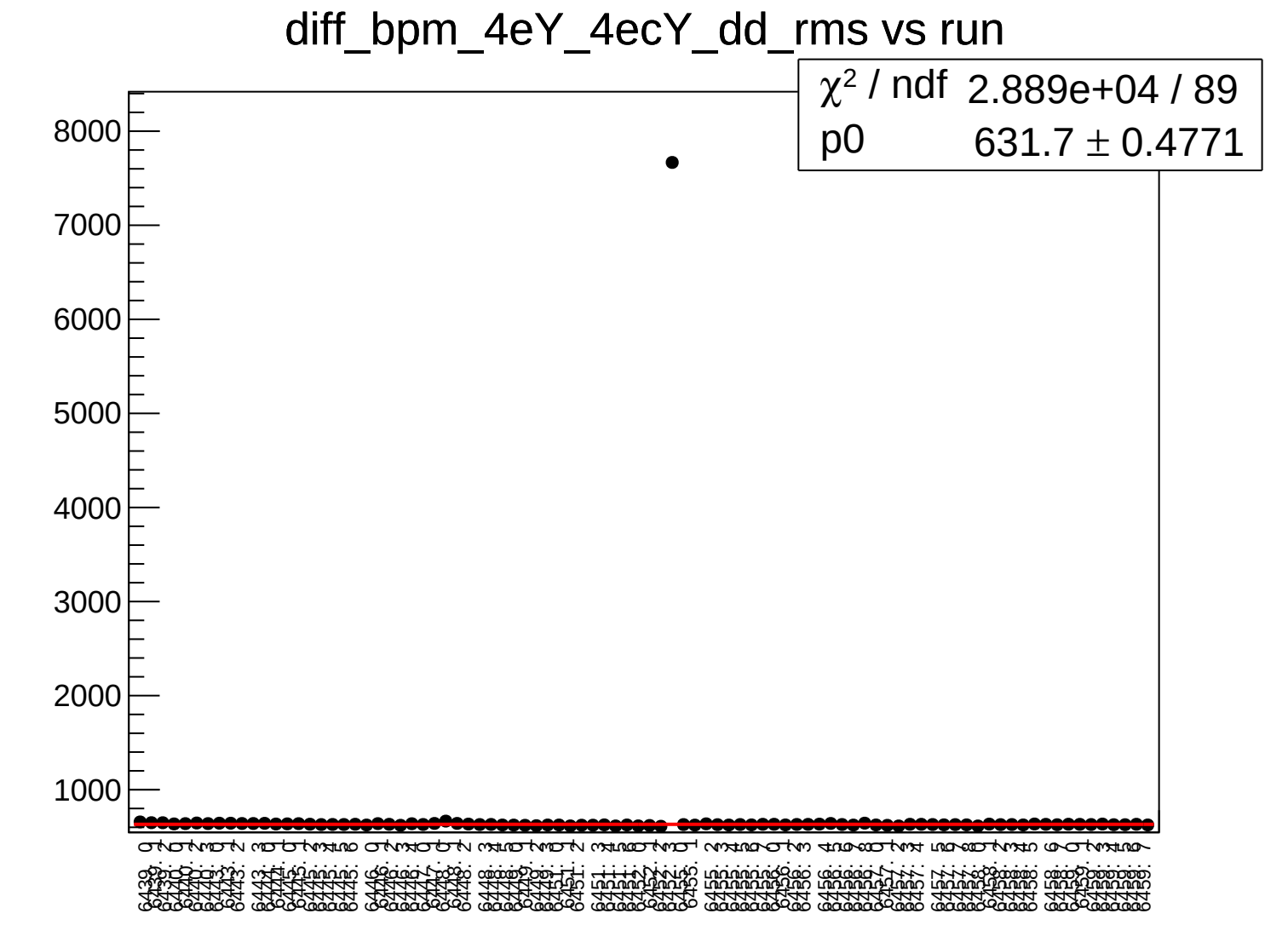

diff_bpm_4eY_4ecY_avg_mean vs run
χ² / ndf 92.41 / 89
p0 2.97 ± 5.45
pull
Entries 90
Mean −1348
Std Dev 0

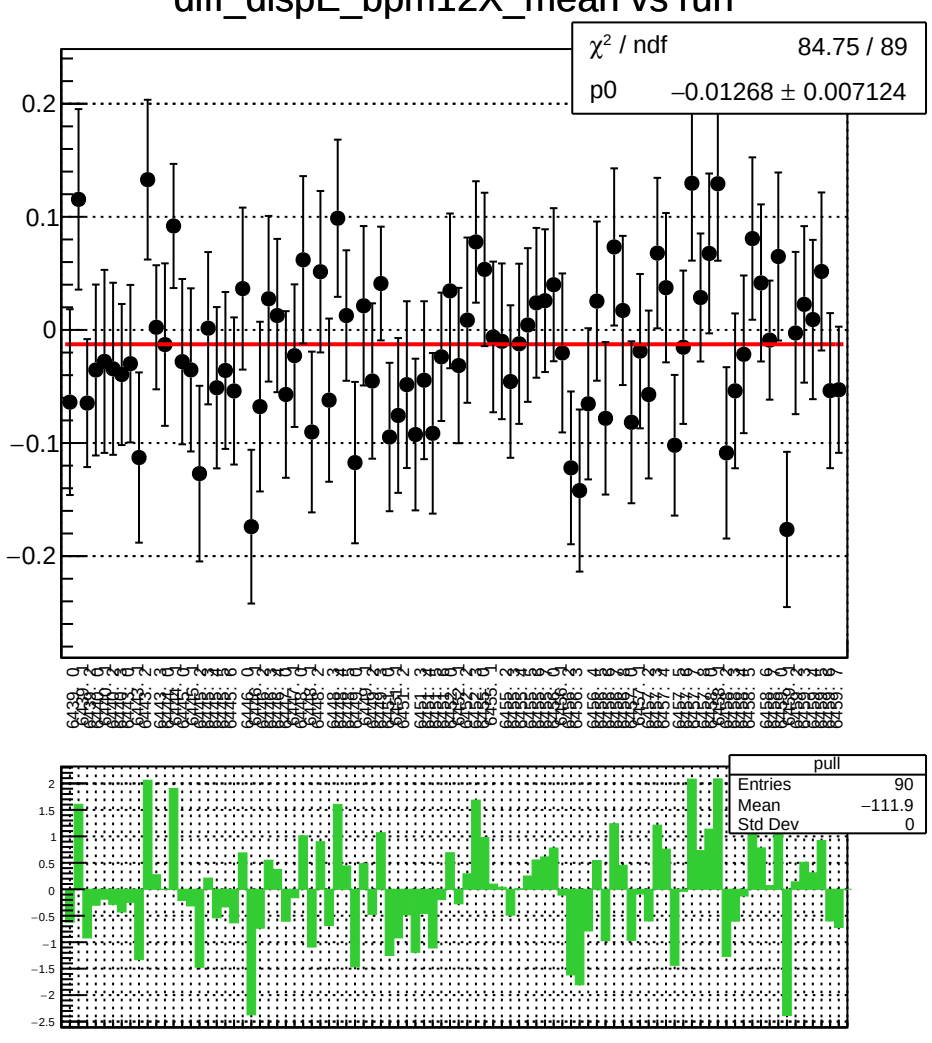

pull1D
Entries 90
Mean 0.002693
Std Dev 1.013

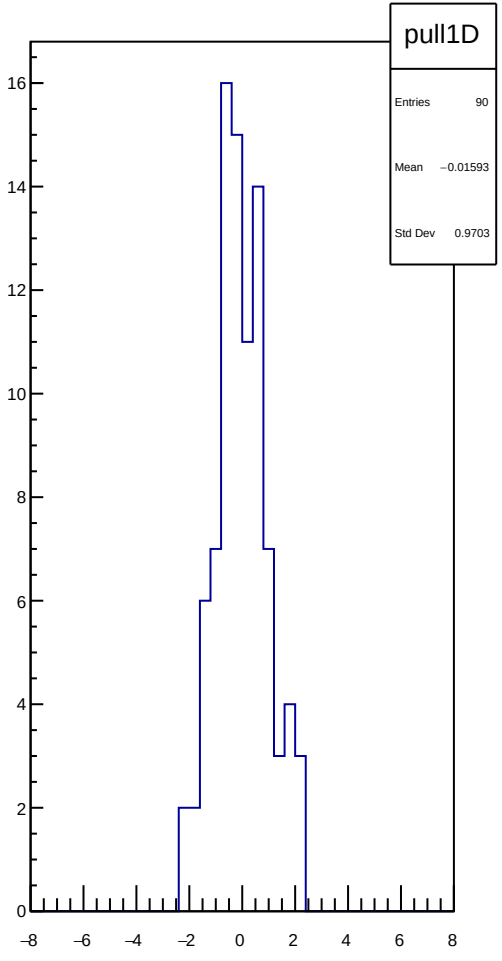

diff_bpm_4eY_4ecY_avg_rms vs run
χ² / ndf 1.503e+04 / 89
p0 5122 ± 3.854
9000
8000
7000
6000
5000
4000

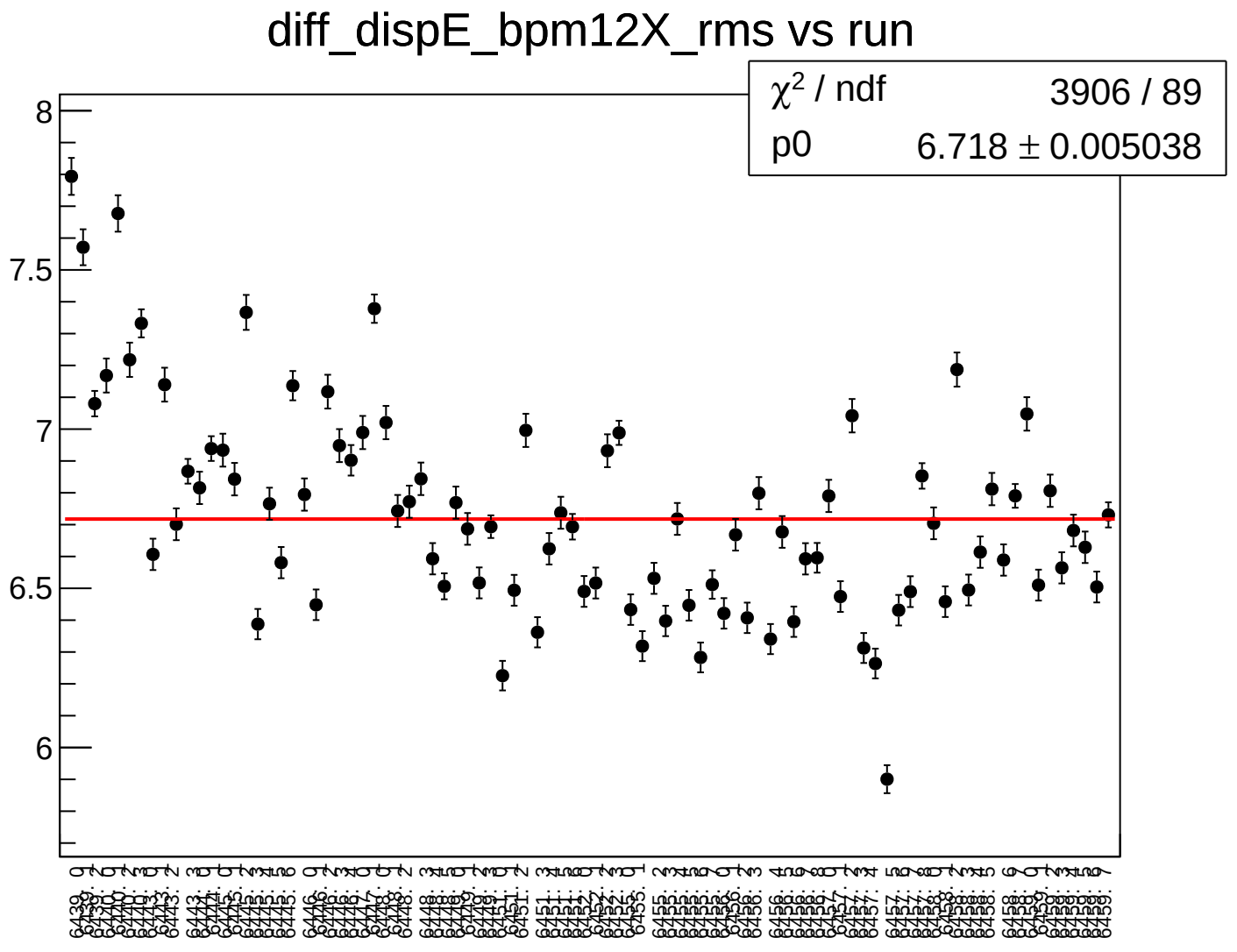

diff_bpm_4eY_4ecY_dd_mean vs run
χ² / ndf 99.37 / 89
p0 −0.6185 ± 0.6747
20
0
−20
−40
−60
−80
−100
pull
Entries 90
Mean −449.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

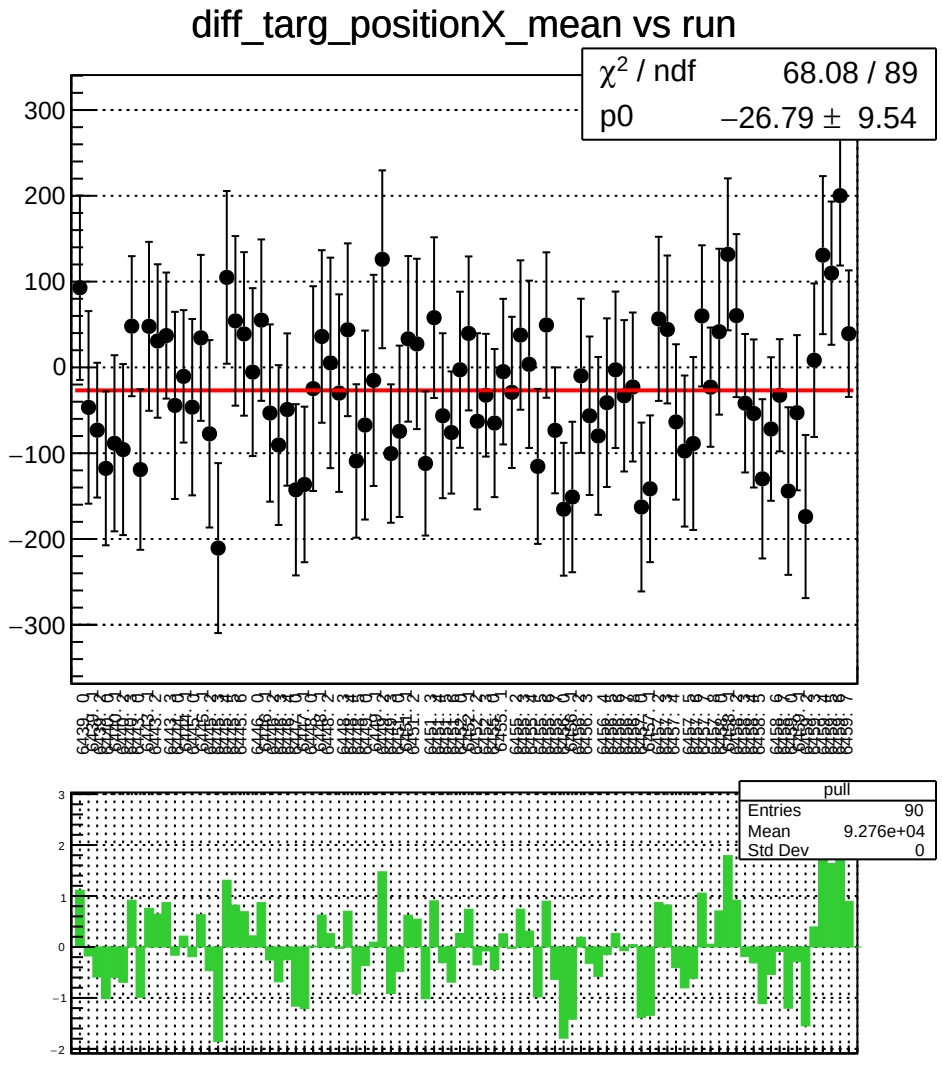

pull1D
Entries 90
Mean 0.00755
Std Dev 1.051
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

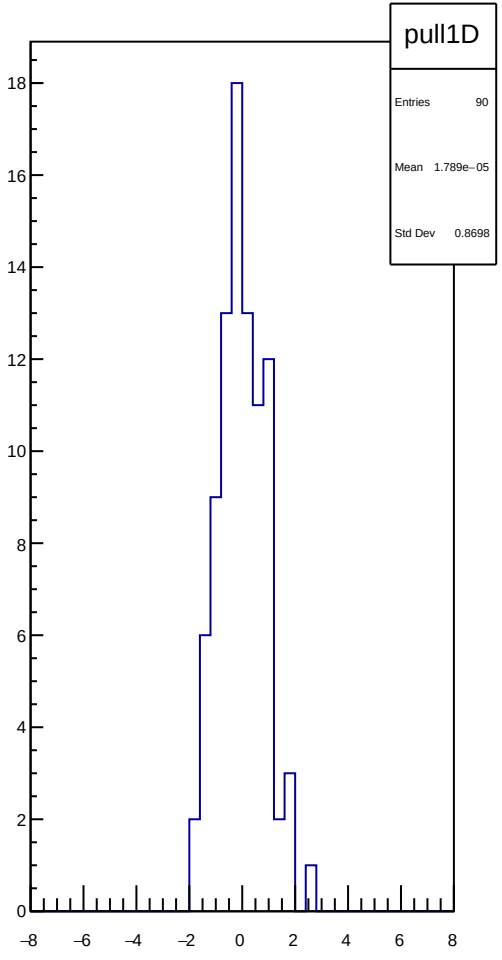

diff_bpm_4eY_4ecY_dd_rms vs run
χ² / ndf 2.889e+04 / 89
p0 631.7 ± 0.4771
8000
7000
6000
5000
4000
3000
2000
1000

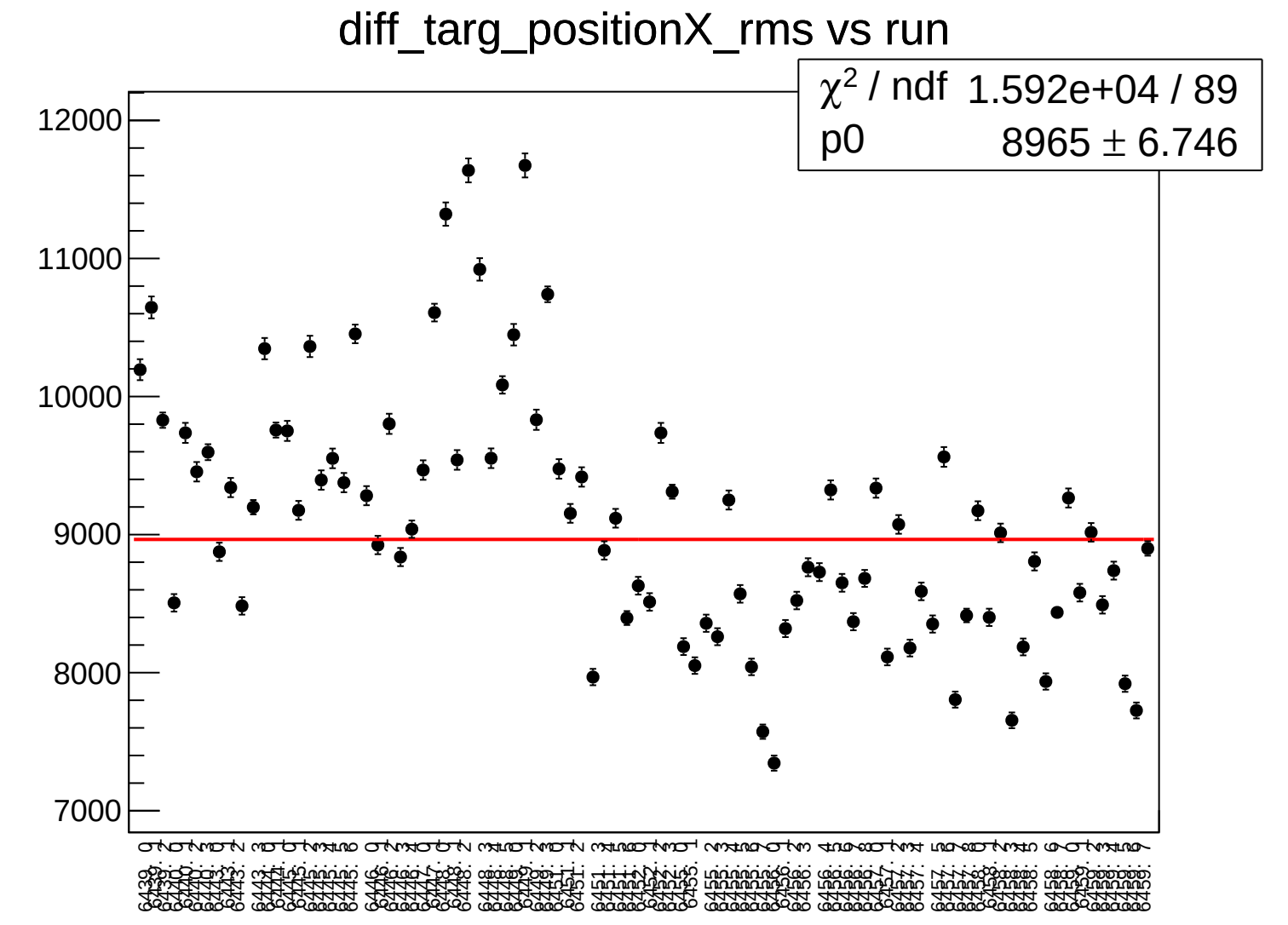

diff_dispE_bpm12X_mean vs run
χ² / ndf 84.75 / 89
p0 −0.01268 ± 0.007124
pull
Entries 90
Mean −111.9
Std Dev 0

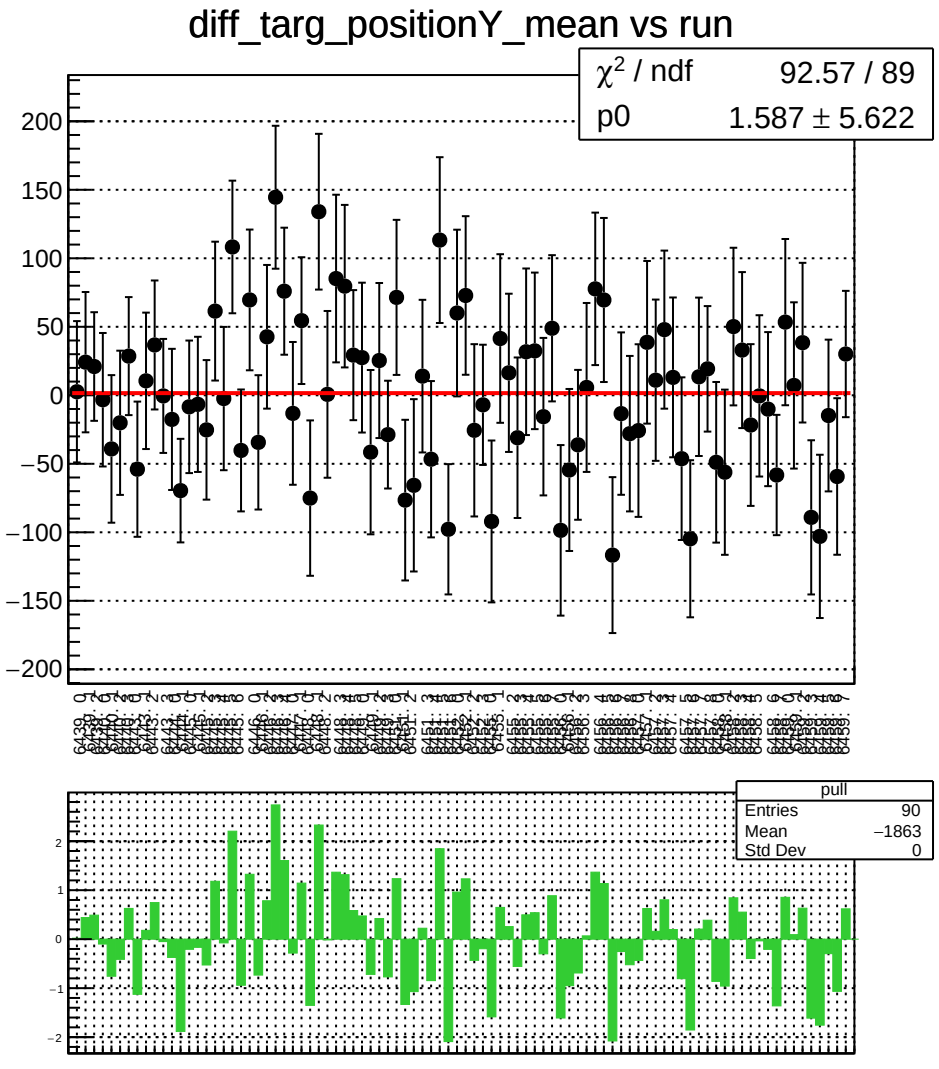

pull1D
Entries 90
Mean −0.01593
Std Dev 0.9703

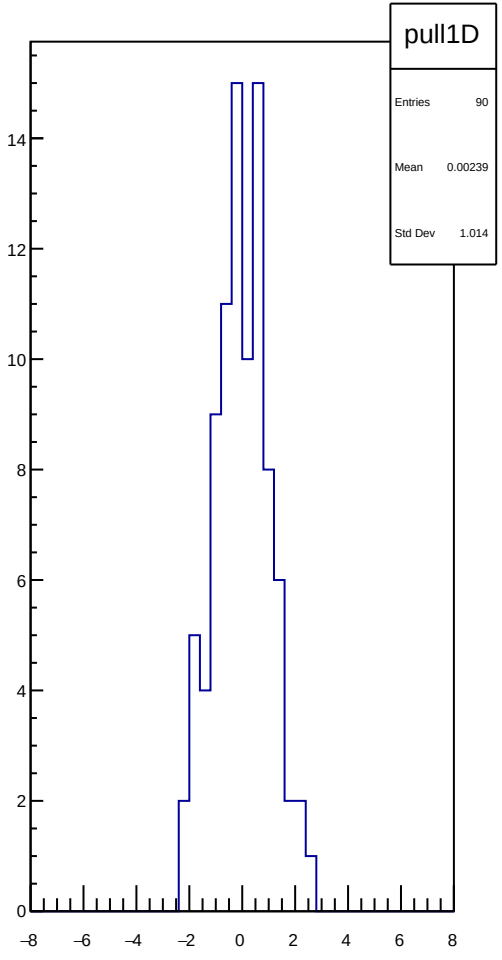

diff_dispE_bpm12X_rms vs run
χ² / ndf 3906 / 89
p0 6.718 ± 0.005038
8
7.5
7
6.5
6

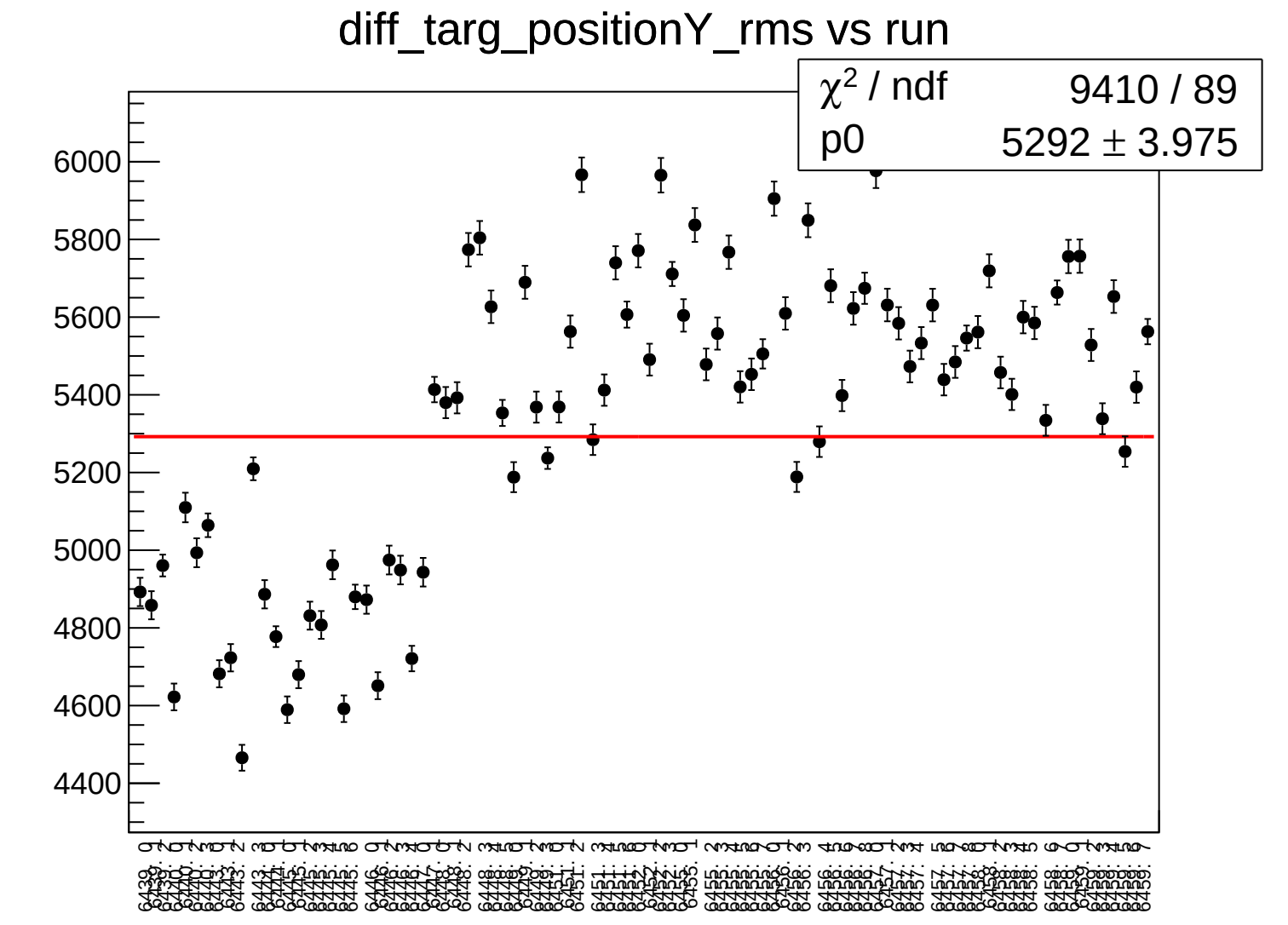

diff_targ_positionX_mean vs run
χ² / ndf 68.08 / 89
p0 −26.79 ± 9.54
pull
Entries 90
Mean 9.276e+04
Std Dev 0

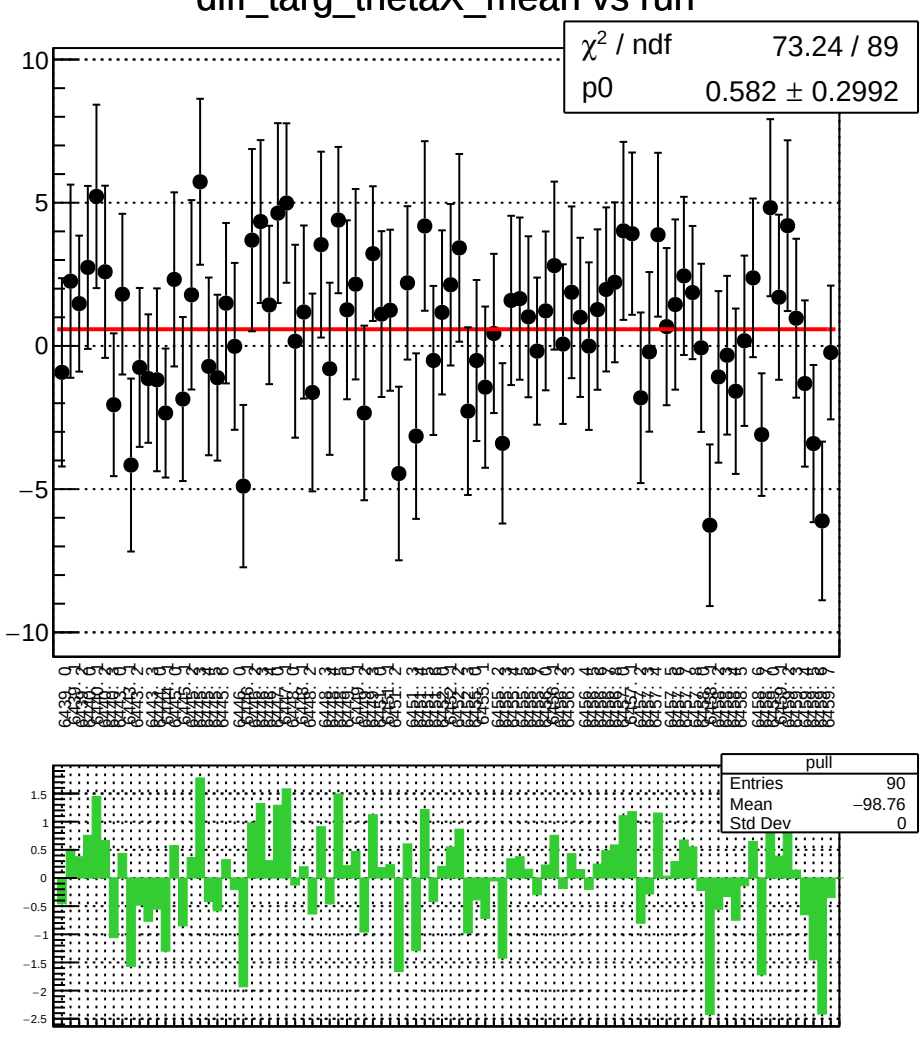

pull1D
Entries 90
Mean 1.789e−05
Std Dev 0.8698

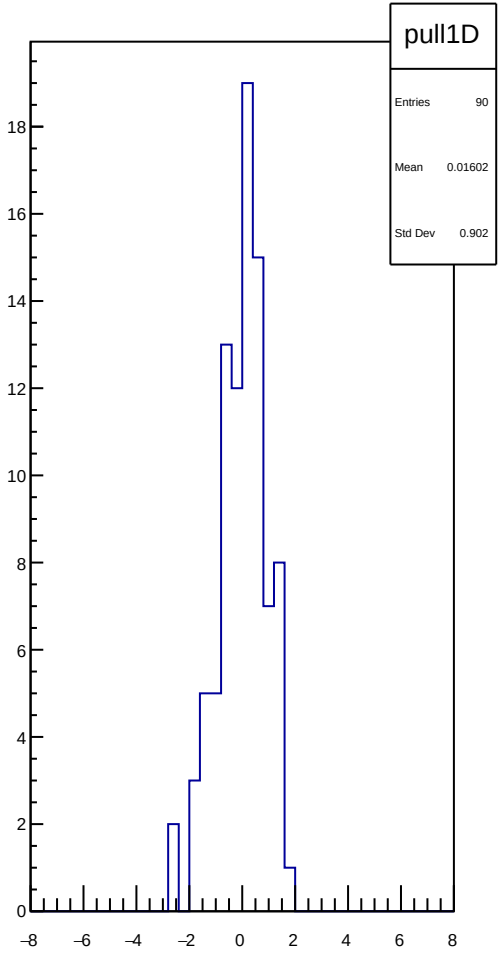

diff_targ_positionX_rms vs run
χ² / ndf 1.592e+04 / 89
p0 8965 ± 6.746
12000
11000
10000
9000
8000
7000

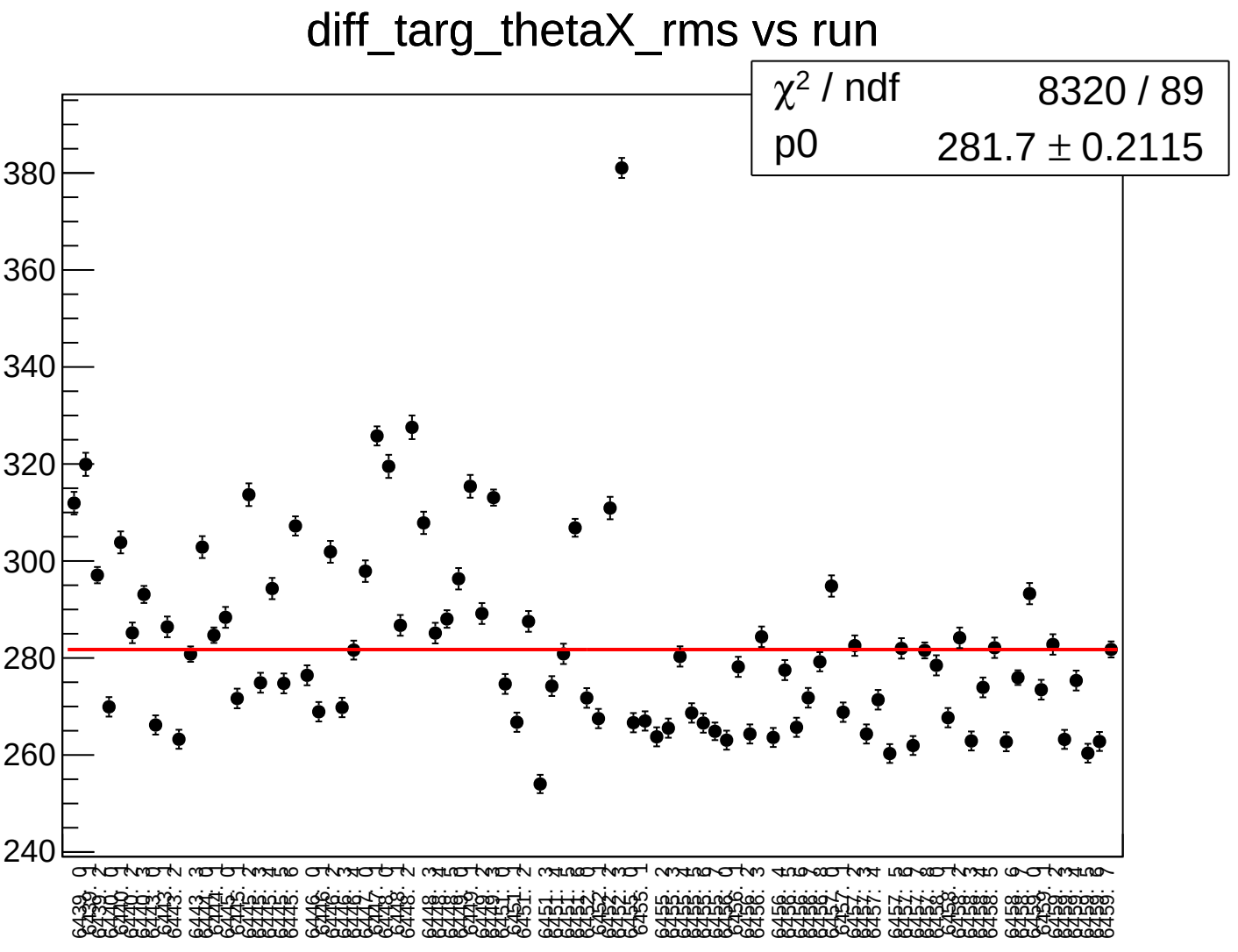

diff_targ_positionY_mean vs run
χ^2 / ndf 92.57 / 89
p0 1.587 ± 5.622
pull
Entries 90
Mean −1863
Std Dev 0

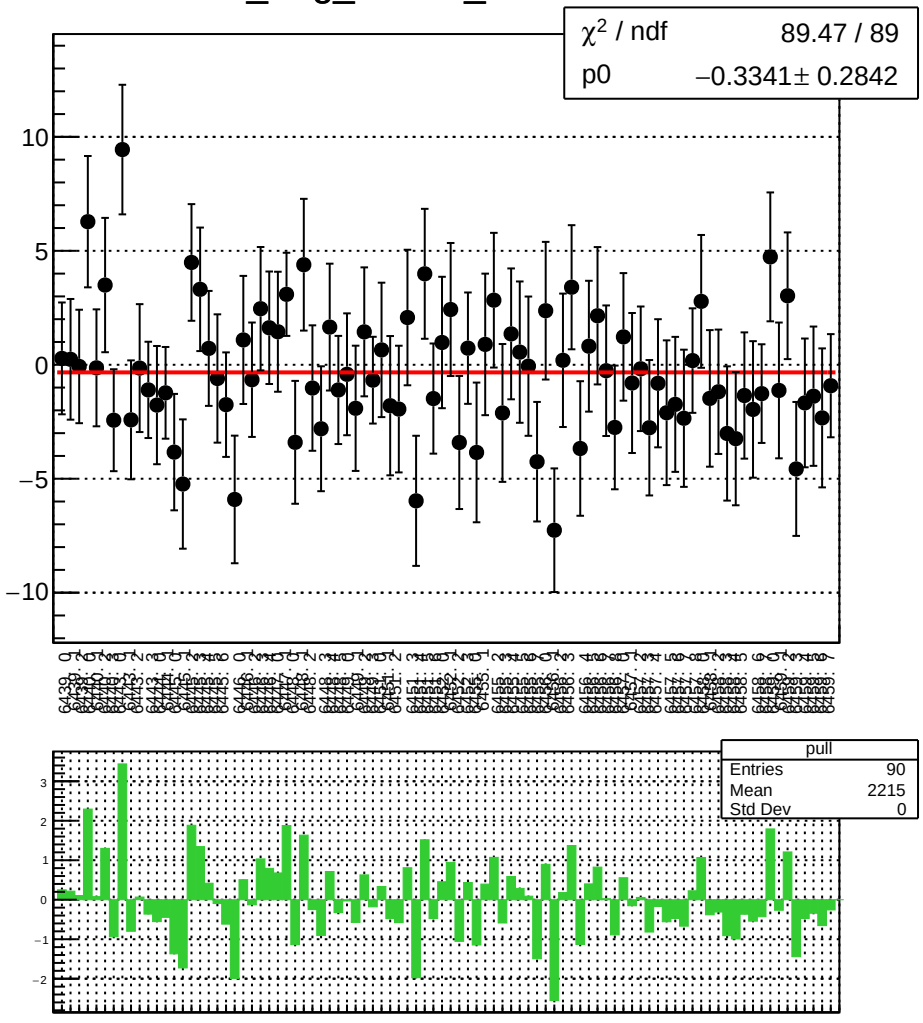

pull1D
Entries 90
Mean 0.00239
Std Dev 1.014

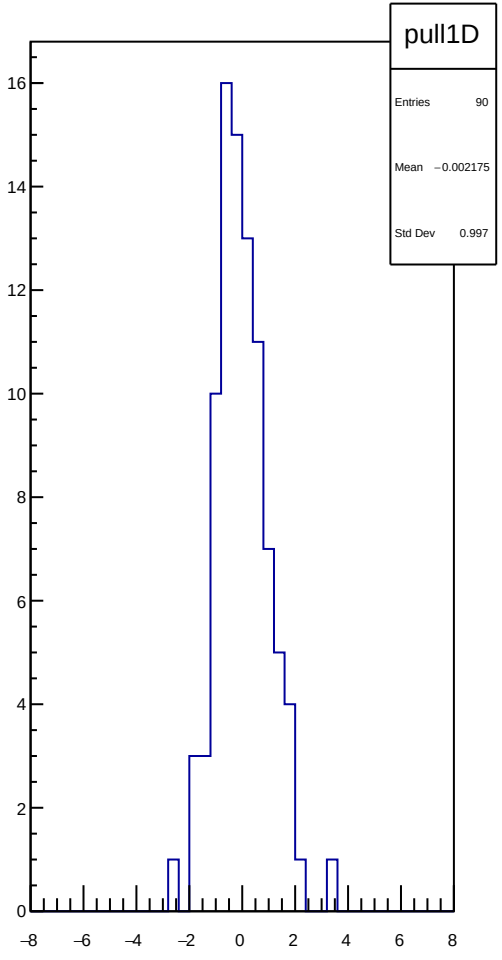

diff_targ_positionY_rms vs run
χ² / ndf 9410 / 89
p0 5292 ± 3.975
6000
5800
5600
5400
5200
5000
4800
4600
4400

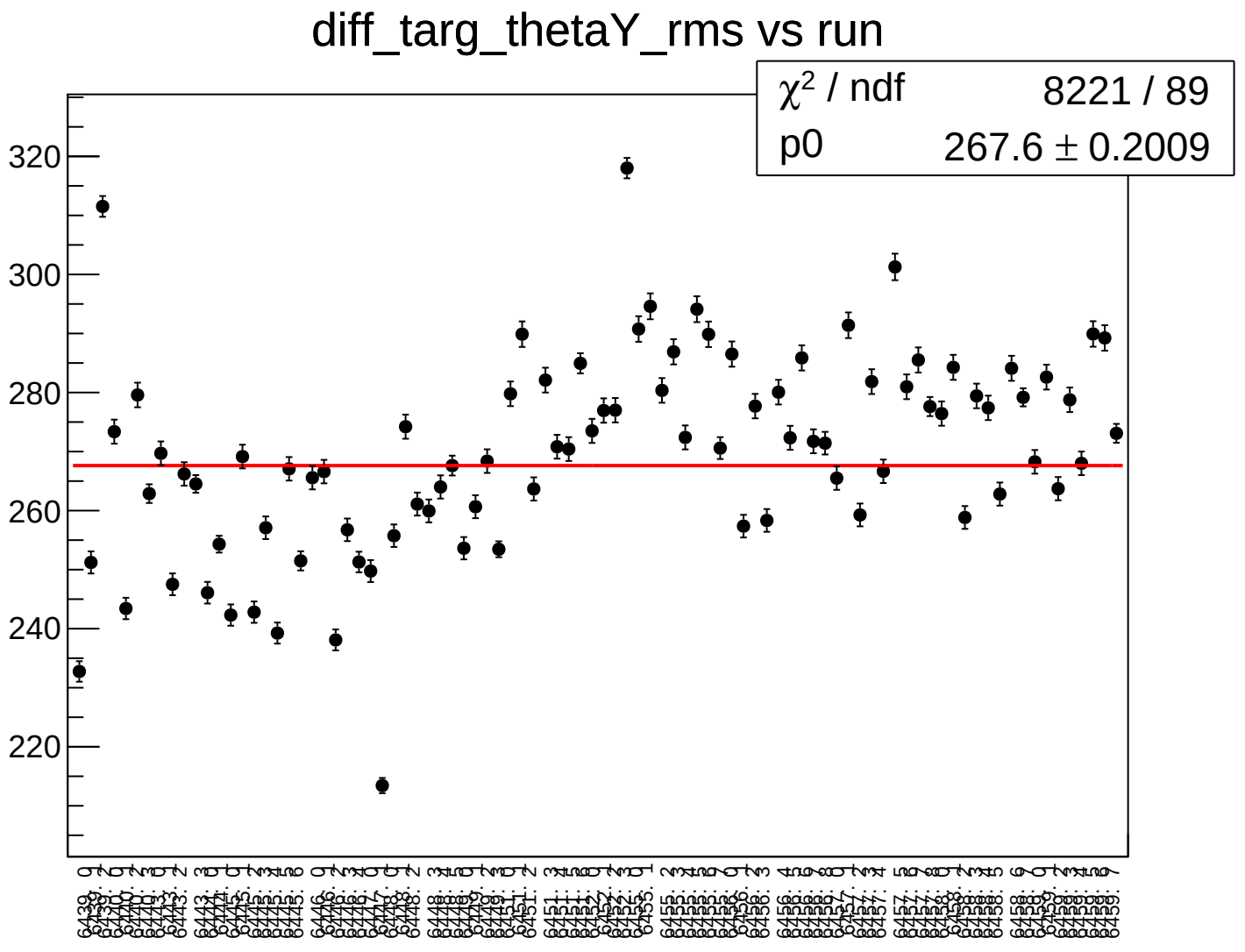

diff_targ_thetaX_mean vs run
χ² / ndf 73.24 / 89
p0 0.582 ± 0.2992
pull
Entries 90
Mean −98.76
Std Dev 0

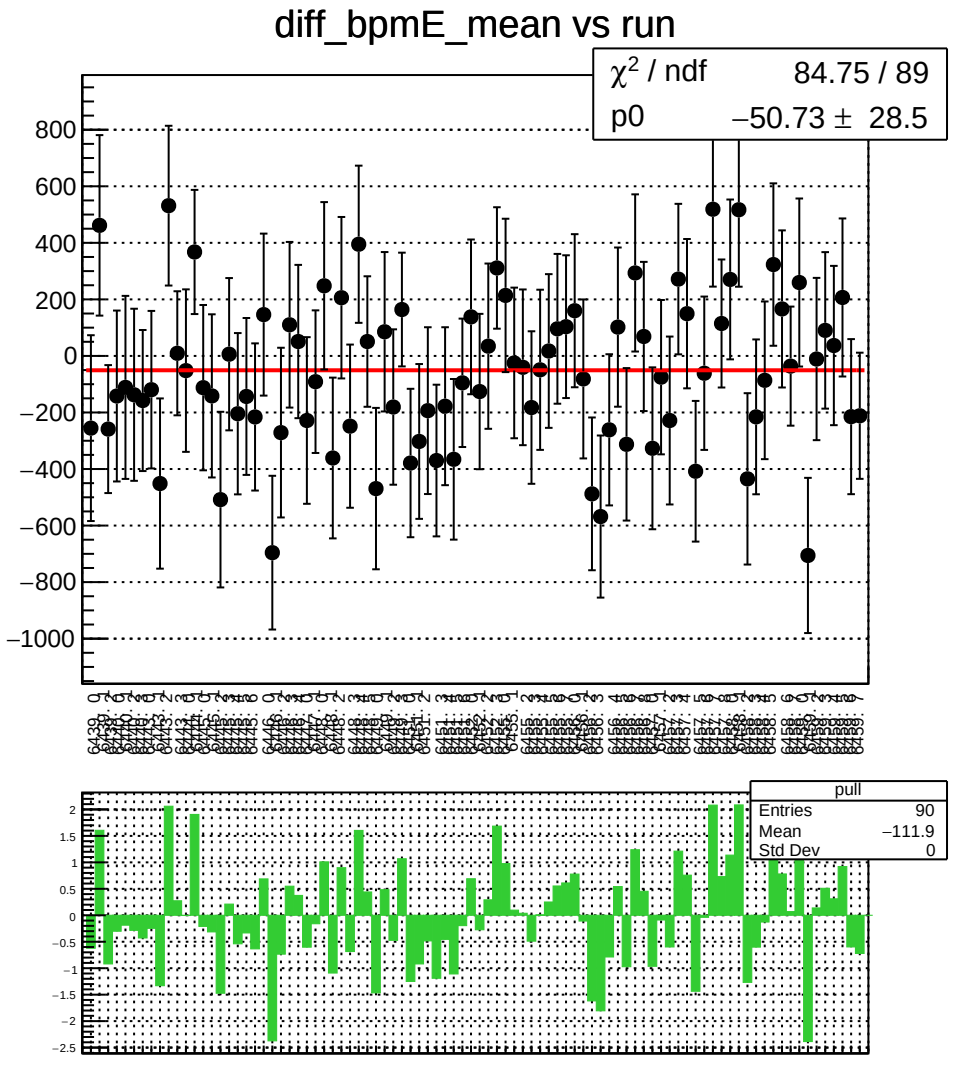

pull1D
Entries 90
Mean 0.01602
Std Dev 0.902

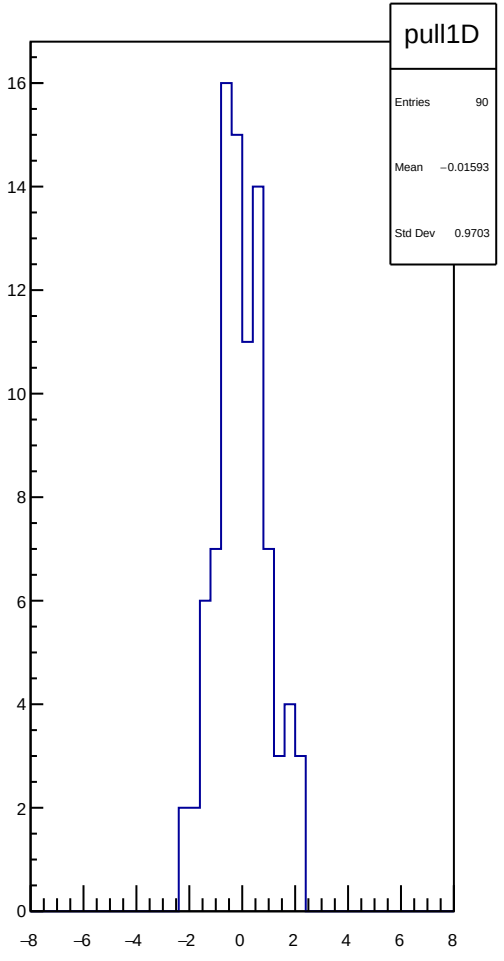

diff_targ_thetaX_rms vs run
χ² / ndf 8320 / 89
p0 281.7 ± 0.2115
380
360
340
320
300
280
260
240

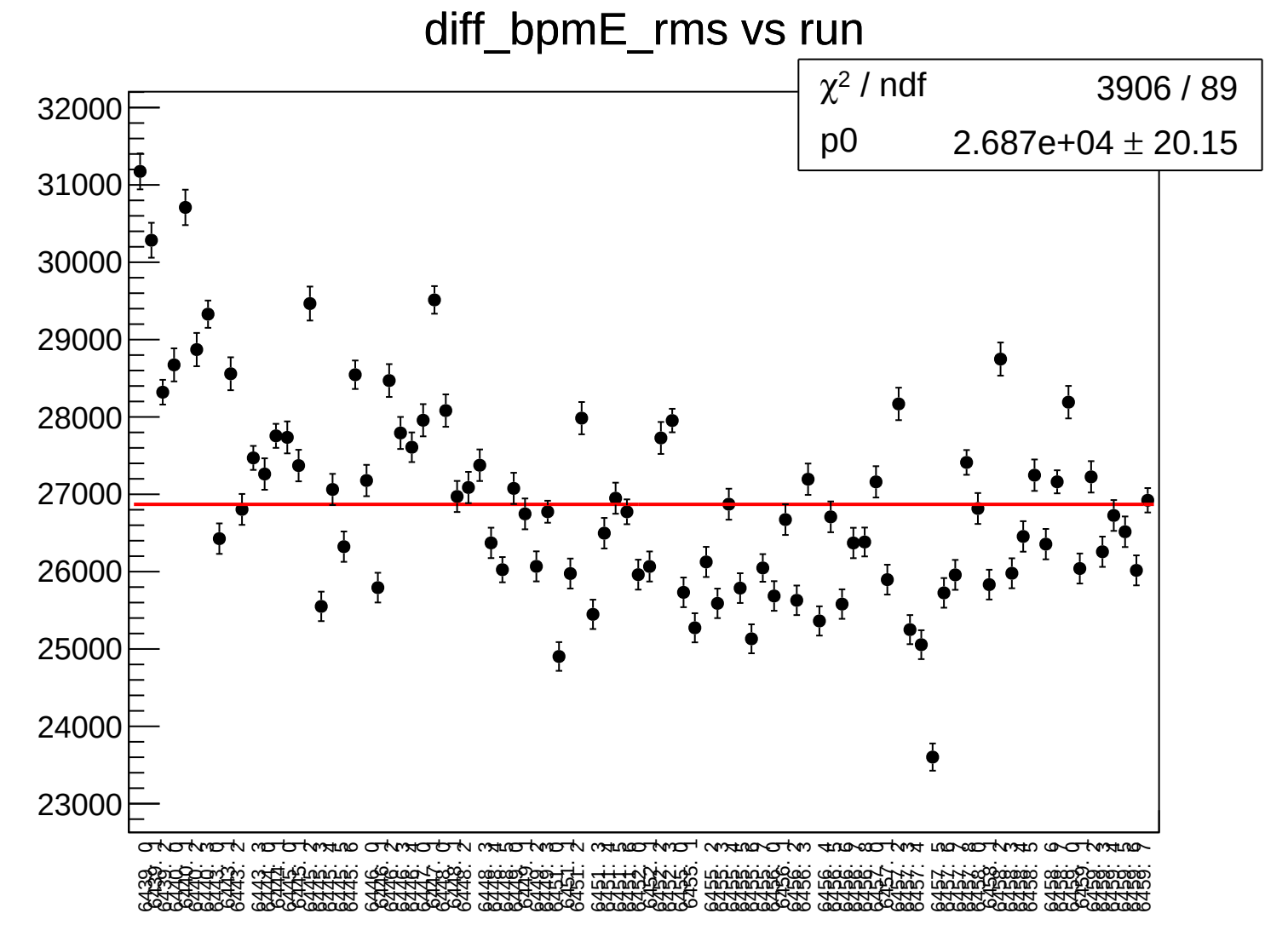

diff_targ_thetaY_mean vs run
χ² / ndf 89.47 / 89
p0 −0.3341± 0.2842
pull
Entries 90
Mean 2215
Std Dev 0

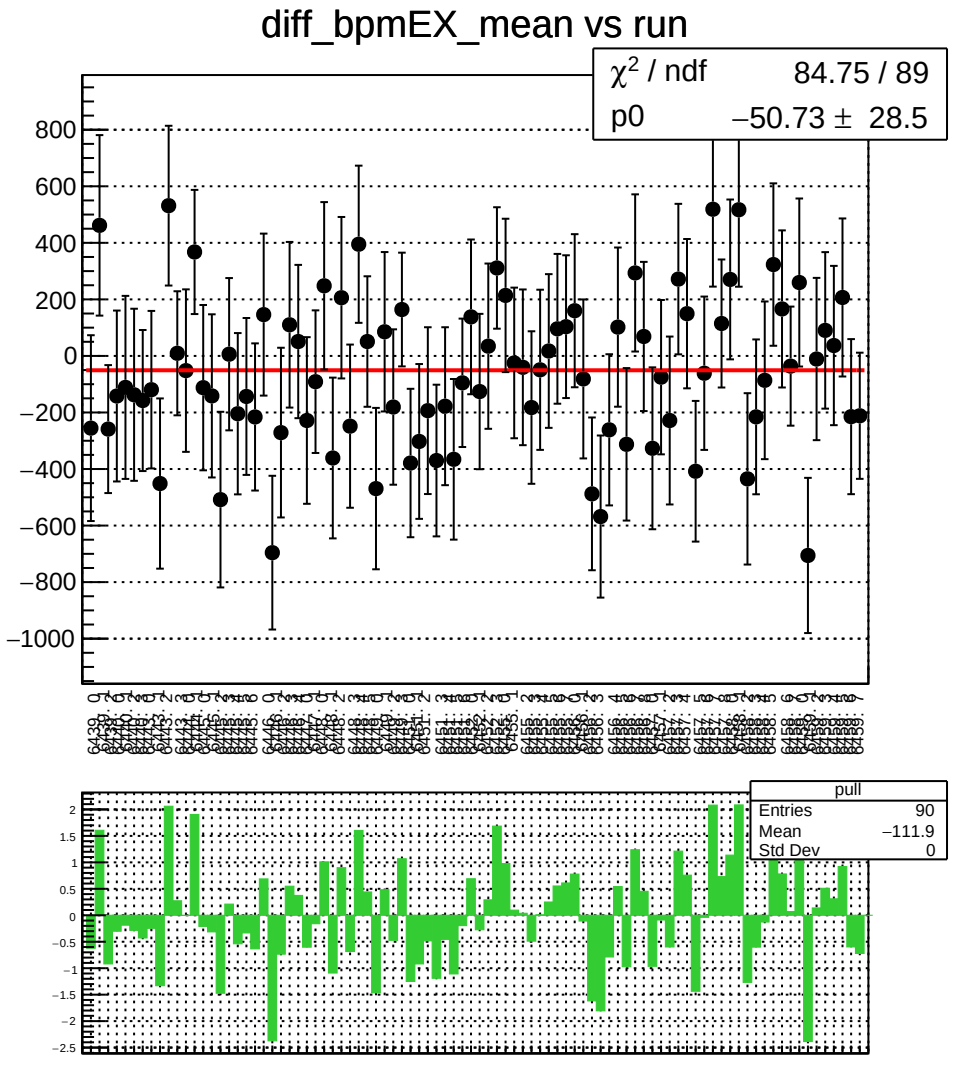

pull1D
Entries 90
Mean −0.002175
Std Dev 0.997

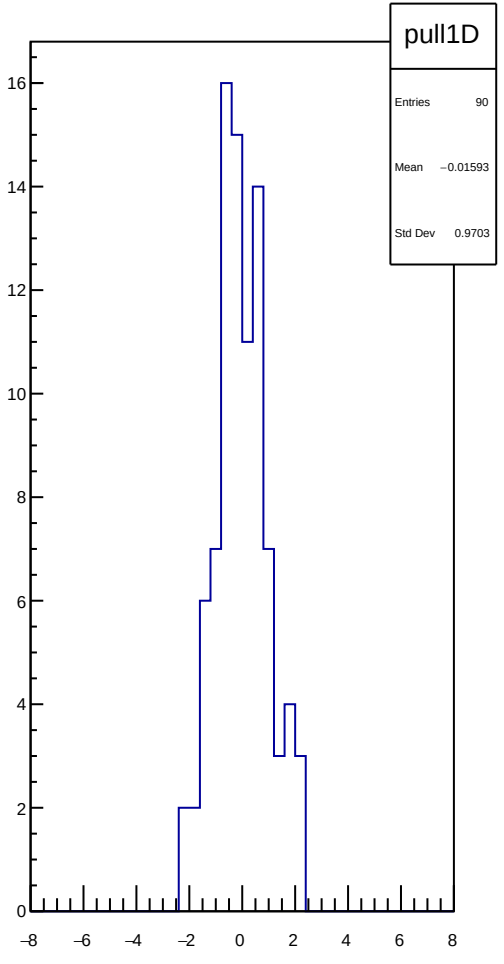

diff_targ_thetaY_rms vs run
χ² / ndf 8221 / 89
p0 267.6 ± 0.2009
320
300
280
260
240
220

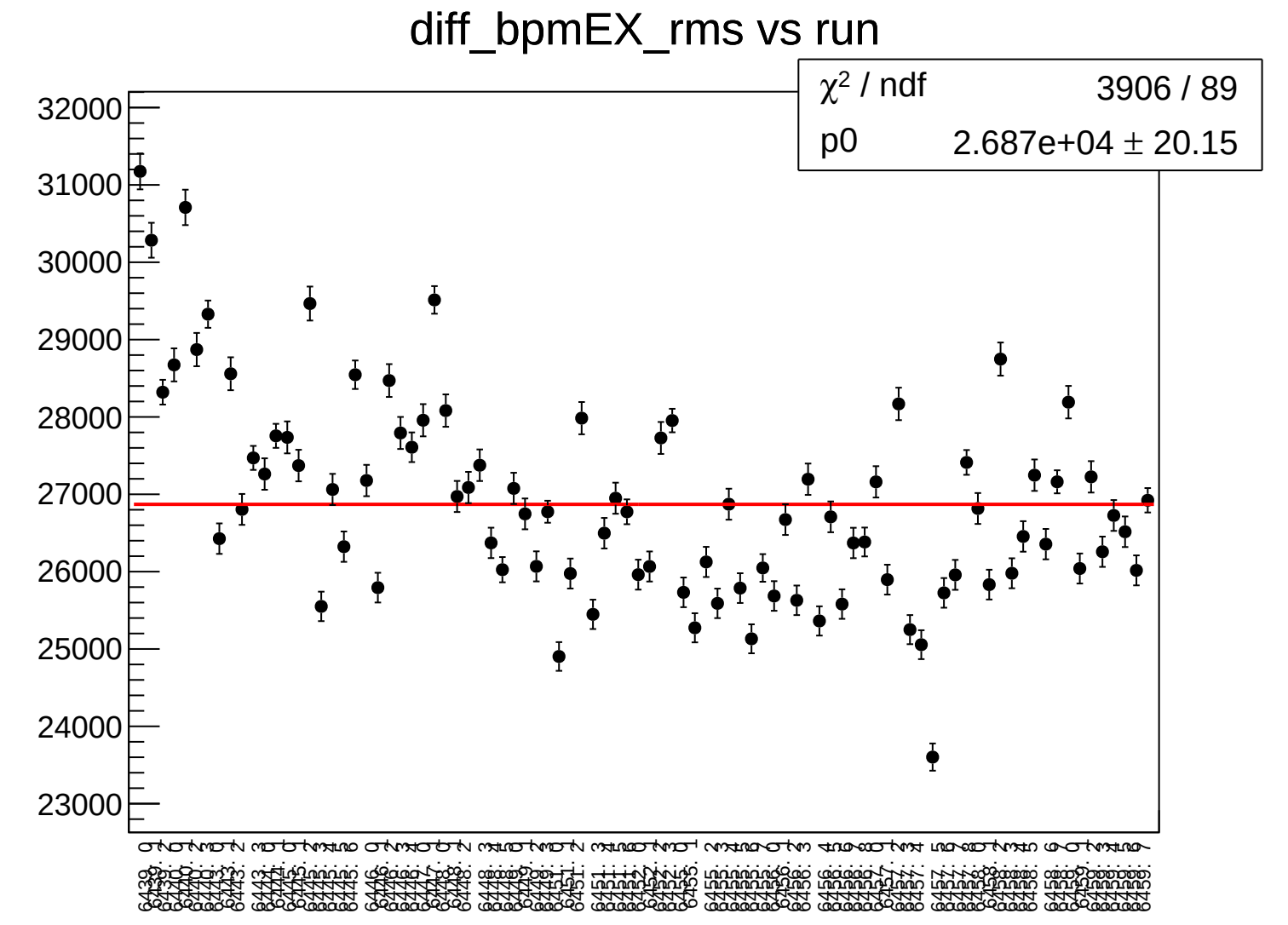

diff_bpmE_mean vs run
χ² / ndf 84.75 / 89
p0 −50.73 ± 28.5
pull
Entries 90
Mean −111.9
Std Dev 0

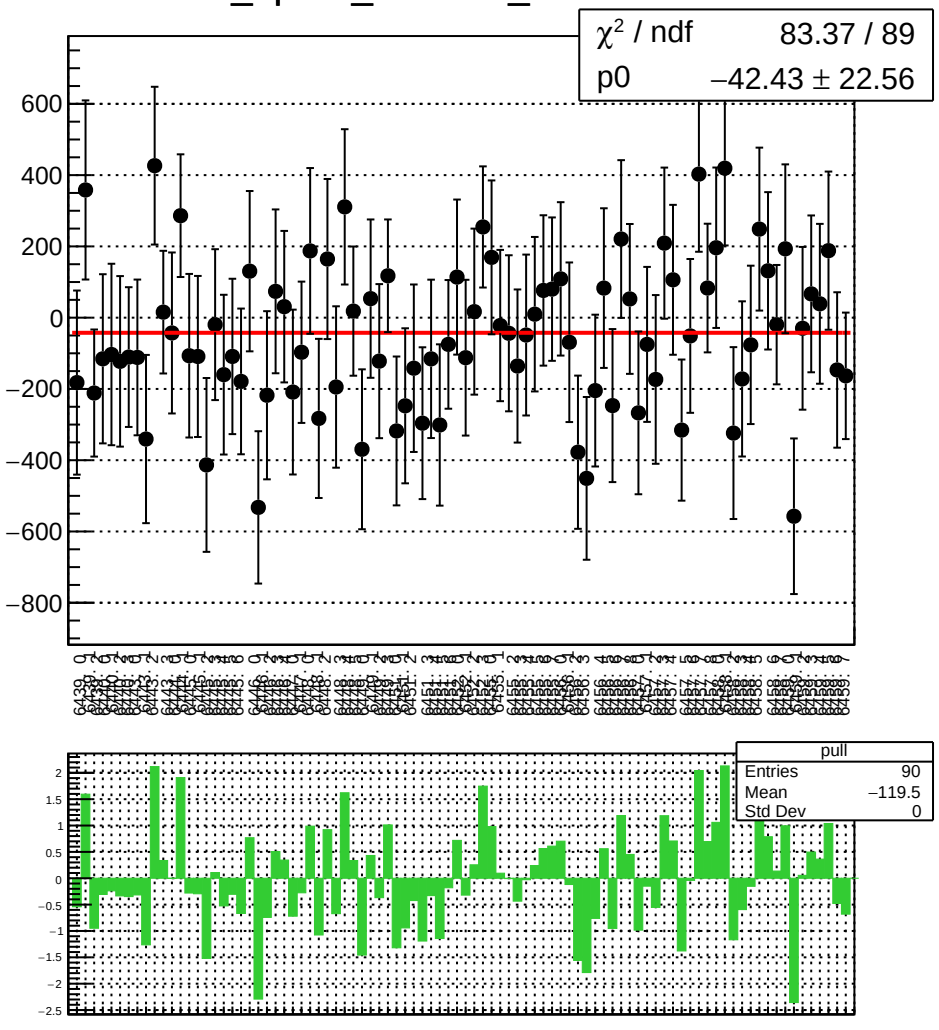

pull1D
Entries 90
Mean −0.01593
Std Dev 0.9703

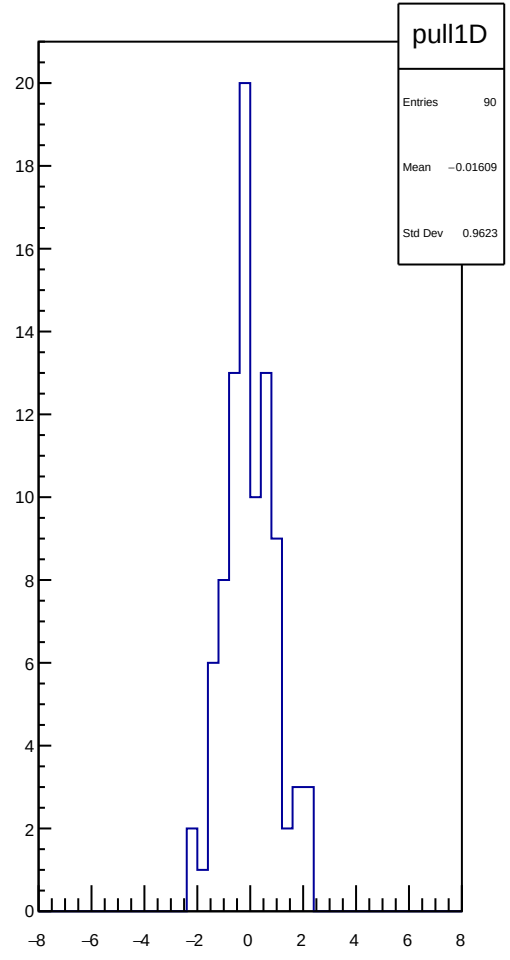

diff_bpmE_rms vs run
χ² / ndf 3906 / 89
p0 2.687e+04 ± 20.15
32000
31000
30000
29000
28000
27000
26000
25000
24000
23000

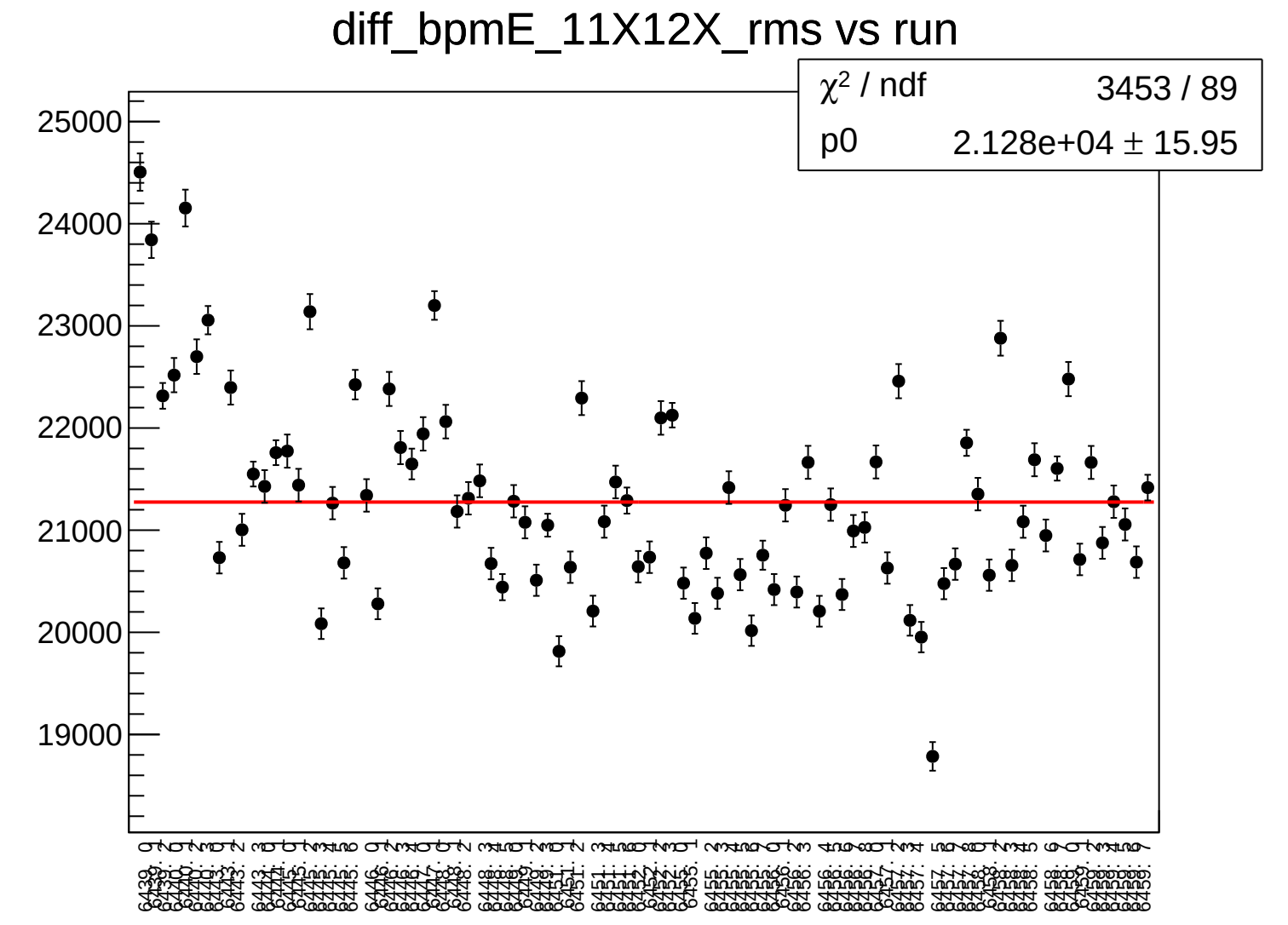

diff_bpmEX_mean vs run
χ² / ndf 84.75 / 89
p0 −50.73 ± 28.5
pull
Entries 90
Mean −111.9
Std Dev 0

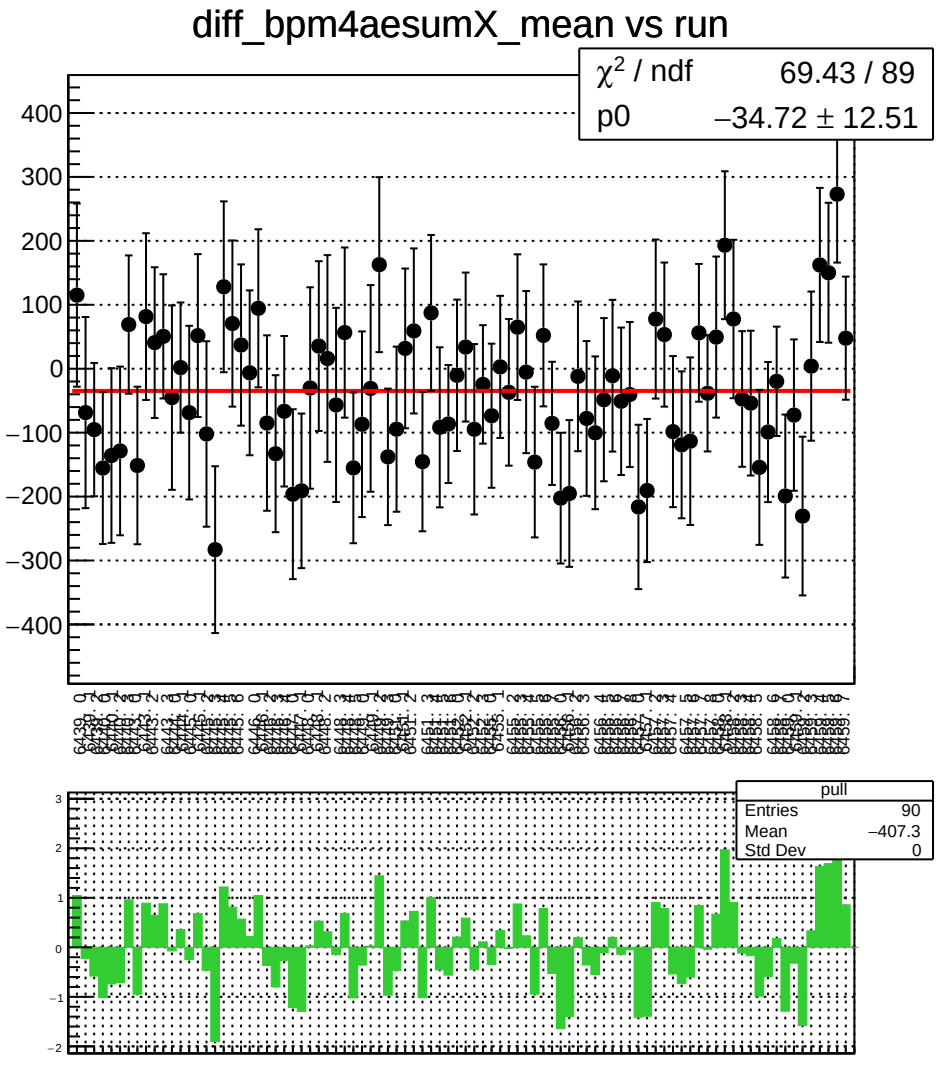

pull1D
Entries 90
Mean −0.01593
Std Dev 0.9703

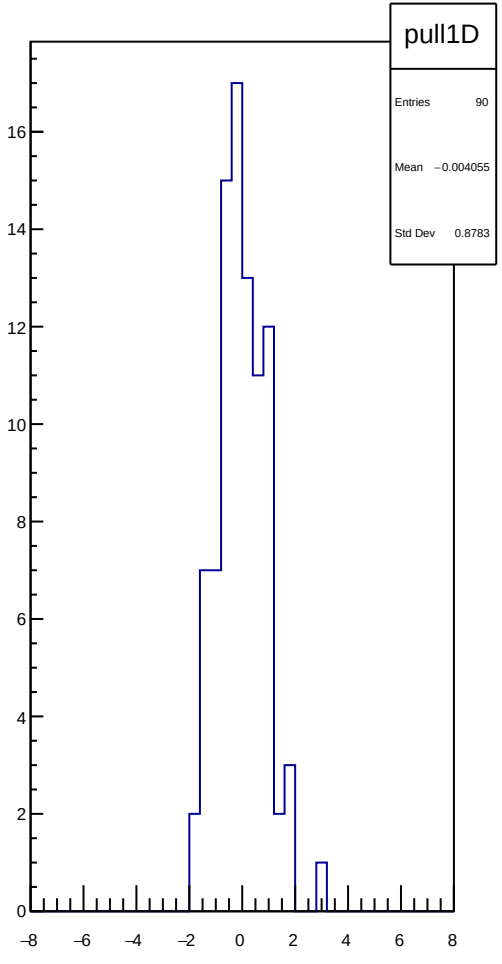

diff_bpmEX_rms vs run
χ² / ndf 3906 / 89
p0 2.687e+04 ± 20.15
32000
31000
30000
29000
28000
27000
26000
25000
24000
23000

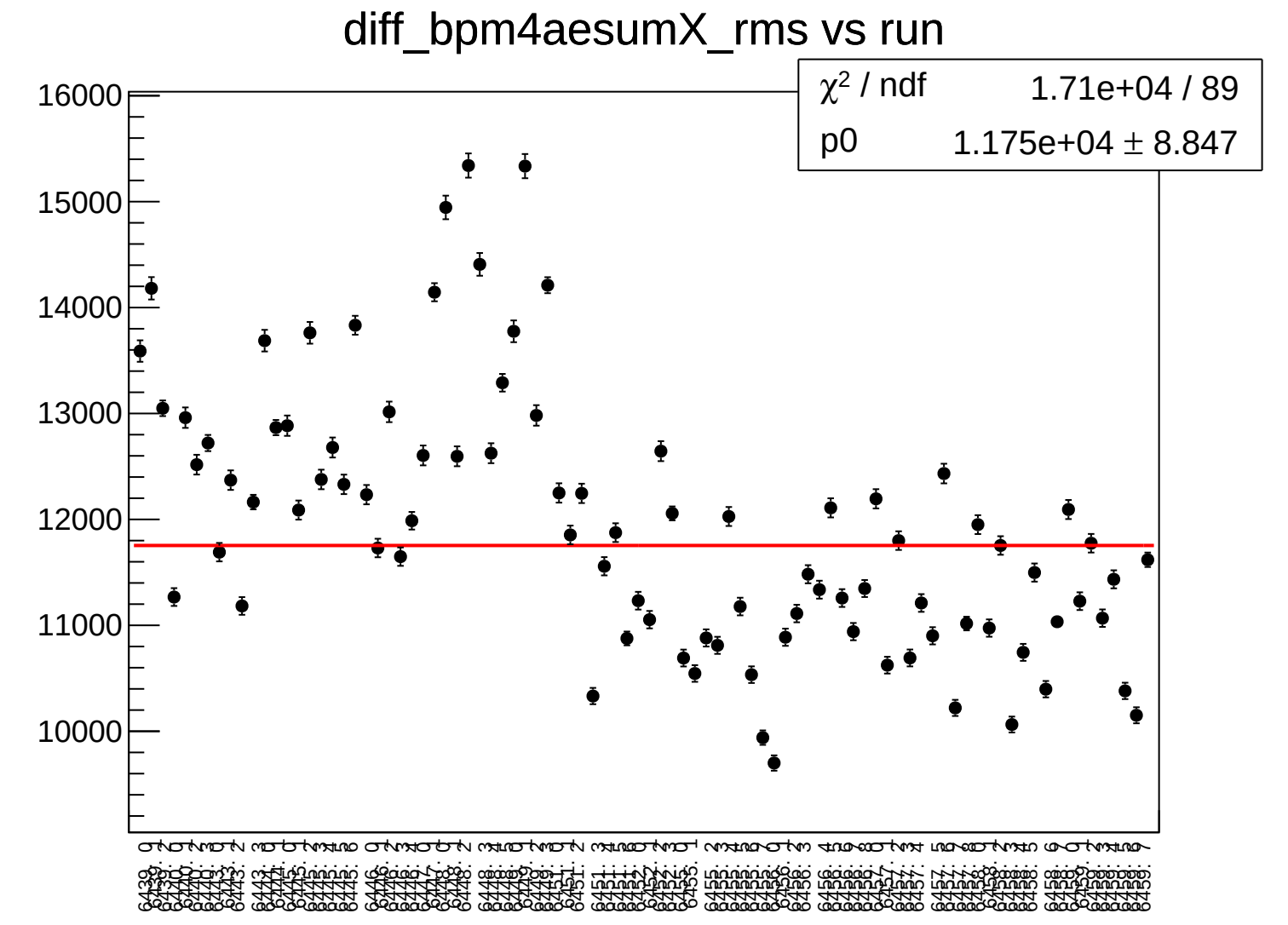

diff_bpmE_11X12X_mean vs run
χ² / ndf 83.37 / 89
p0 −42.43 ± 22.56
pull
Entries 90
Mean −119.5
Std Dev 0

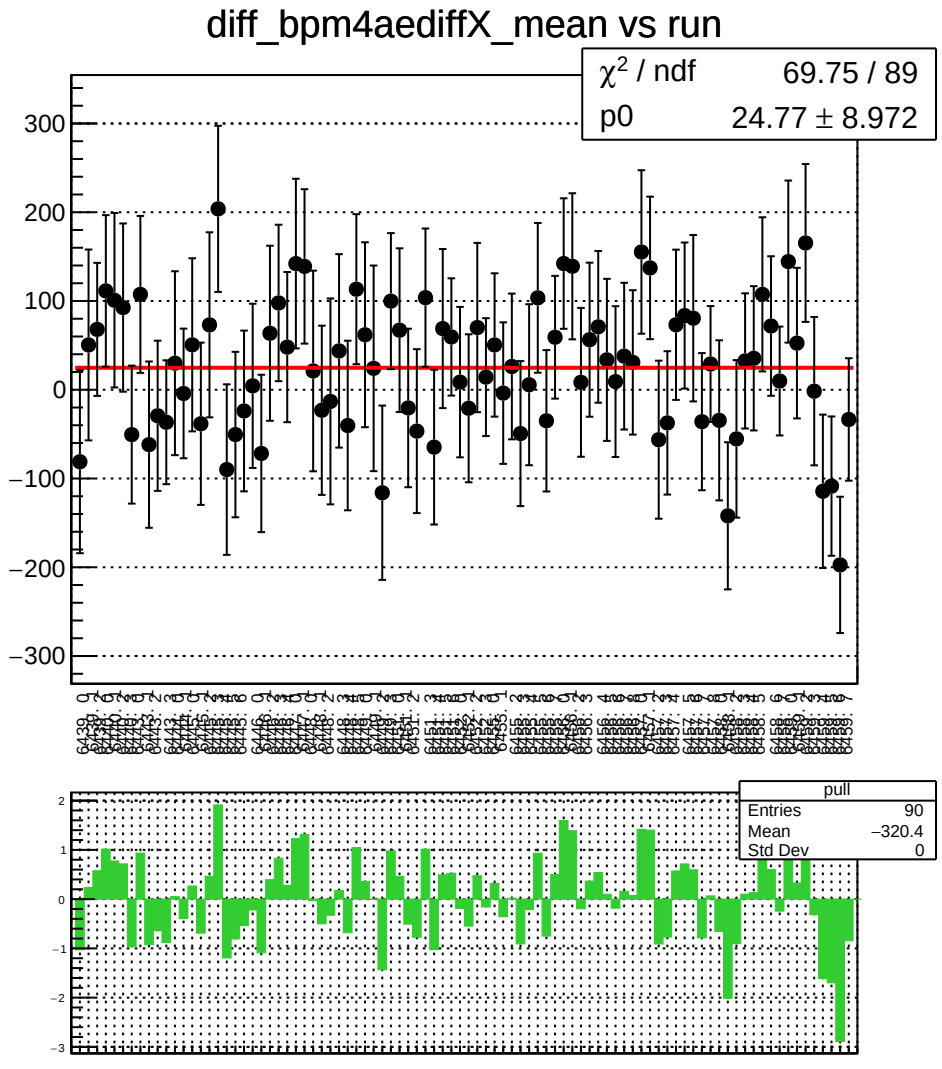

pull1D
Entries 90
Mean −0.01609
Std Dev 0.9623

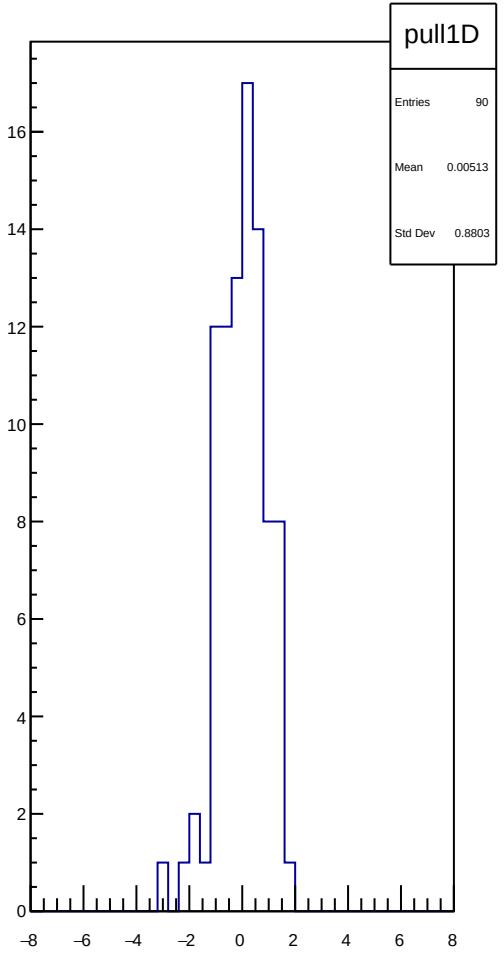

diff_bpmE_11X12X_rms vs run
χ² / ndf 3453 / 89
p0 2.128e+04 ± 15.95
25000
24000
23000
22000
21000
20000
19000

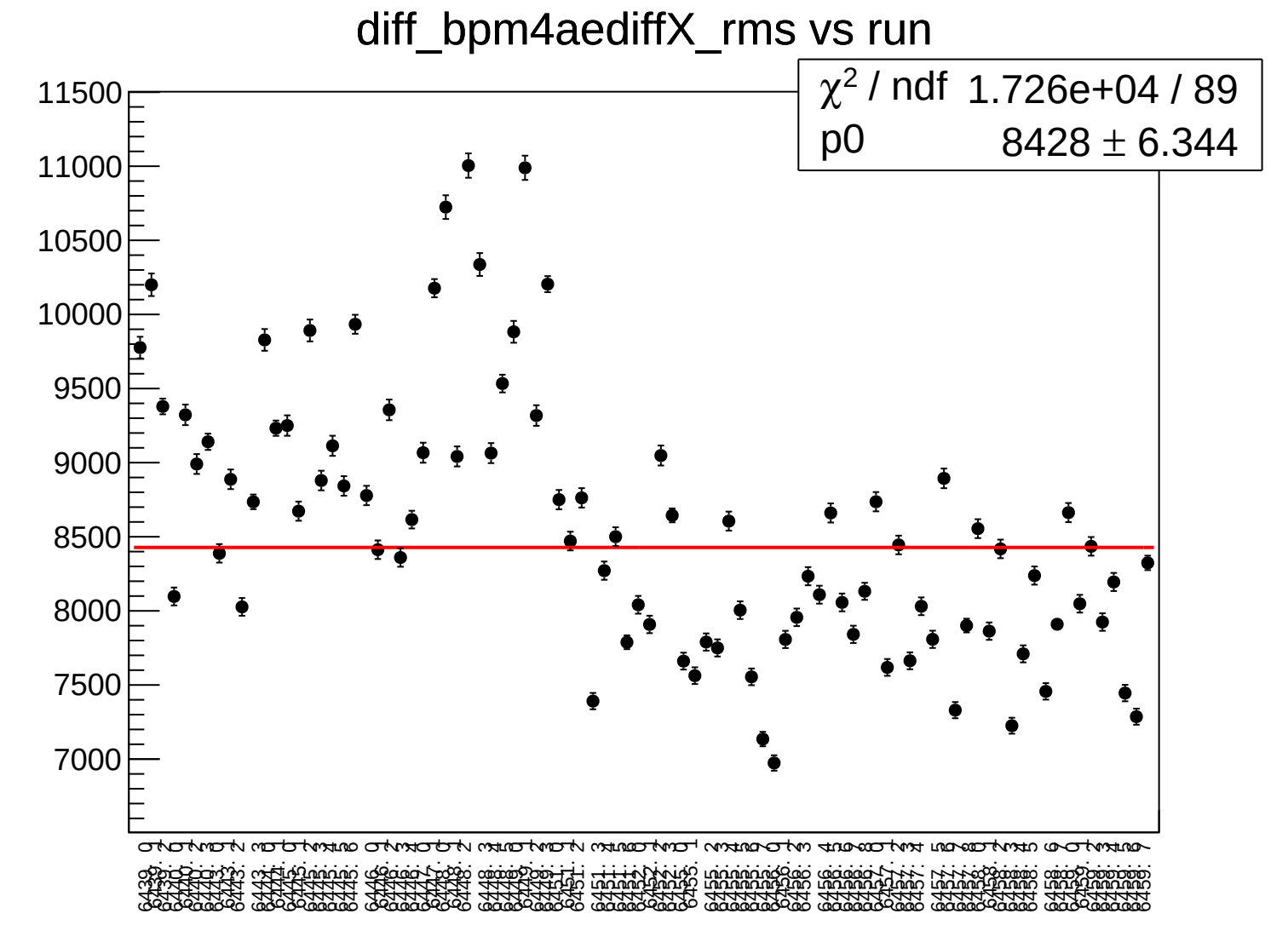

diff_bpm4aesumX_mean vs run
χ² / ndf 69.43 / 89
p0 −34.72 ± 12.51
pull
Entries 90
Mean −407.3
Std Dev 0

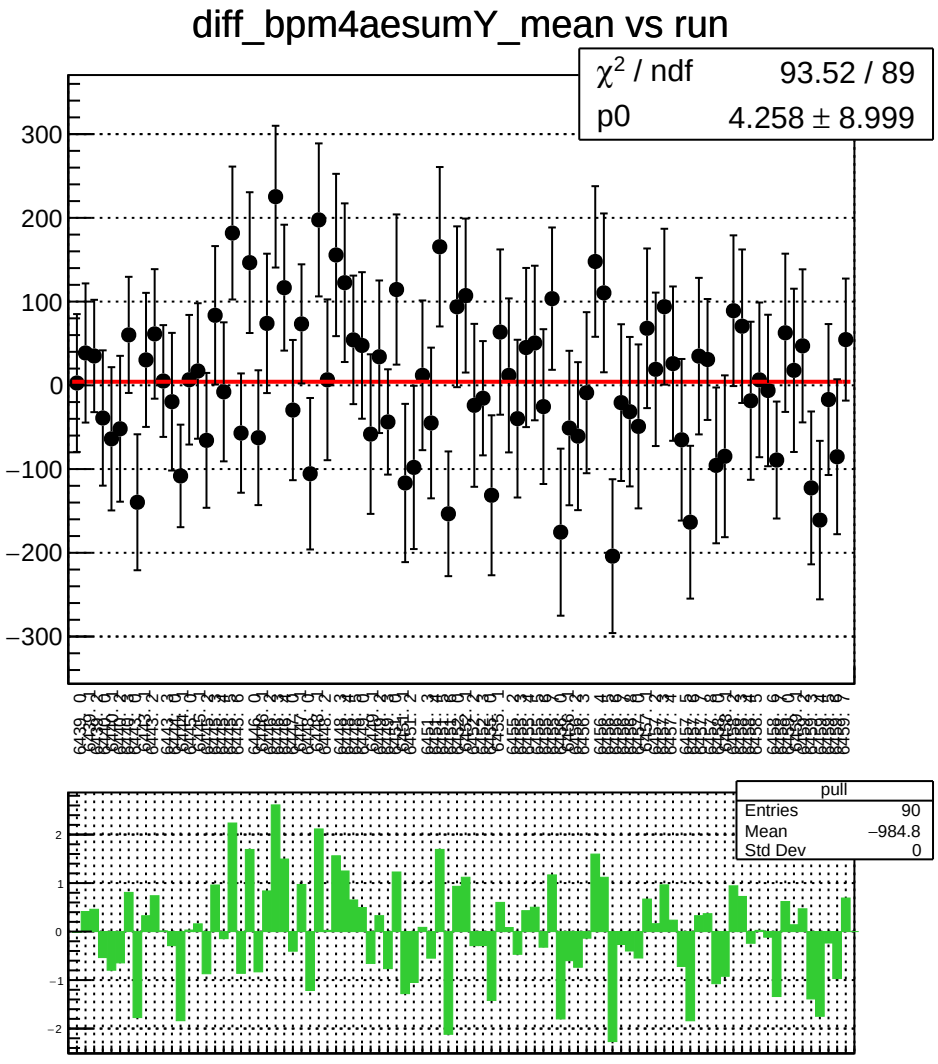

pull1D
Entries 90
Mean −0.004055
Std Dev 0.8783

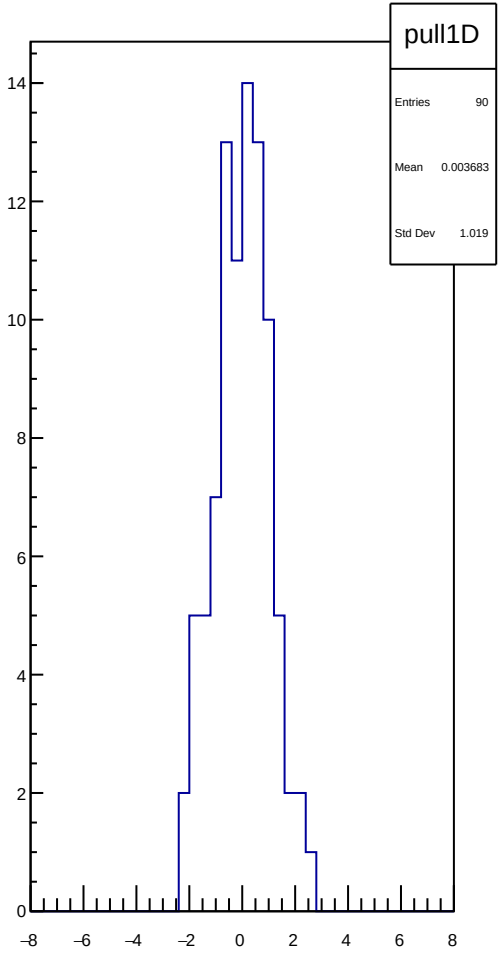

diff_bpm4aesumX_rms vs run
χ² / ndf 1.71e+04 / 89
p0 1.175e+04 ± 8.847
16000
15000
14000
13000
12000
11000
10000

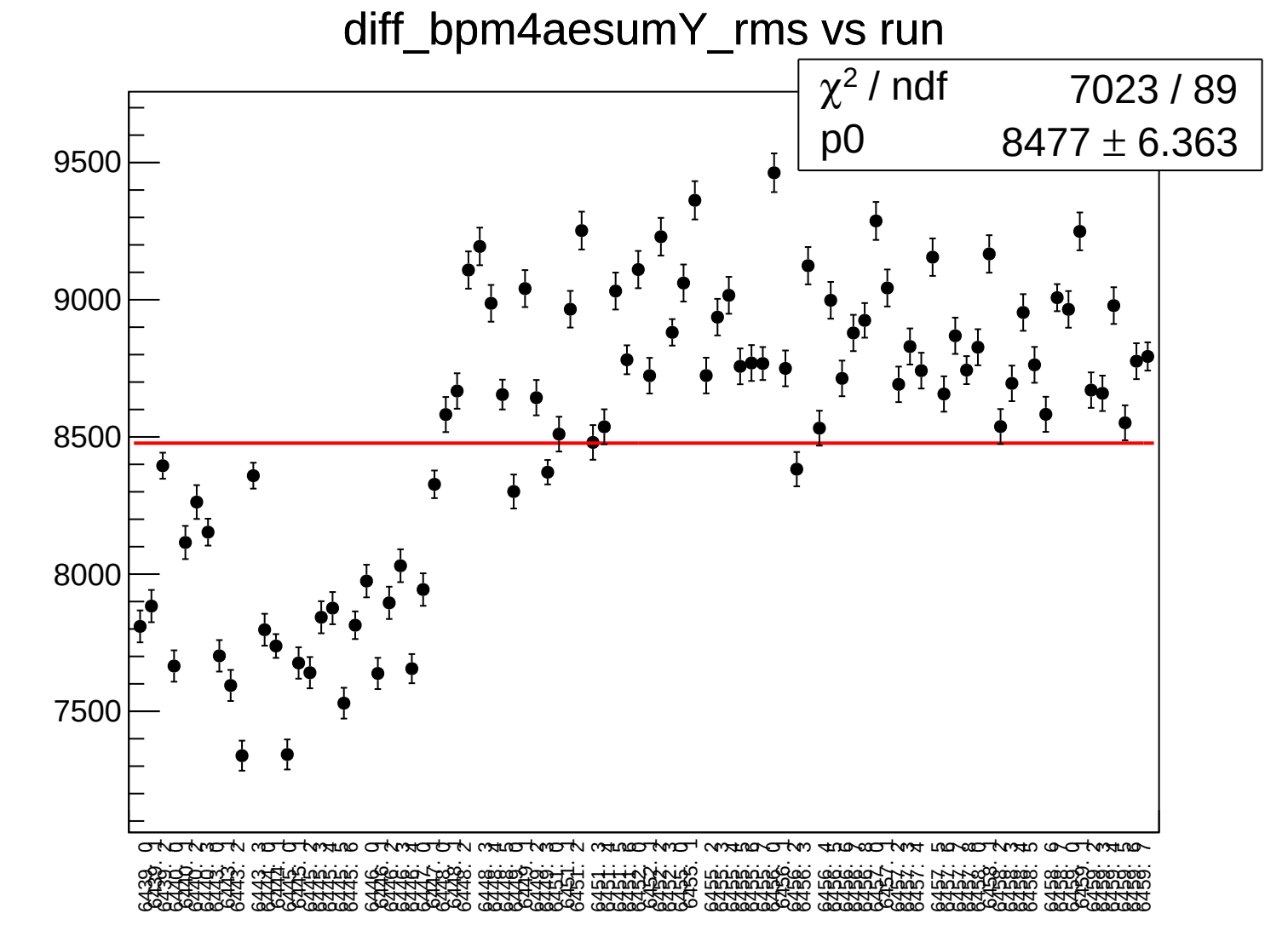

diff_bpm4aediffX_mean vs run
χ² / ndf 69.75 / 89
p0 24.77 ± 8.972
pull
Entries 90
Mean −320.4
Std Dev 0

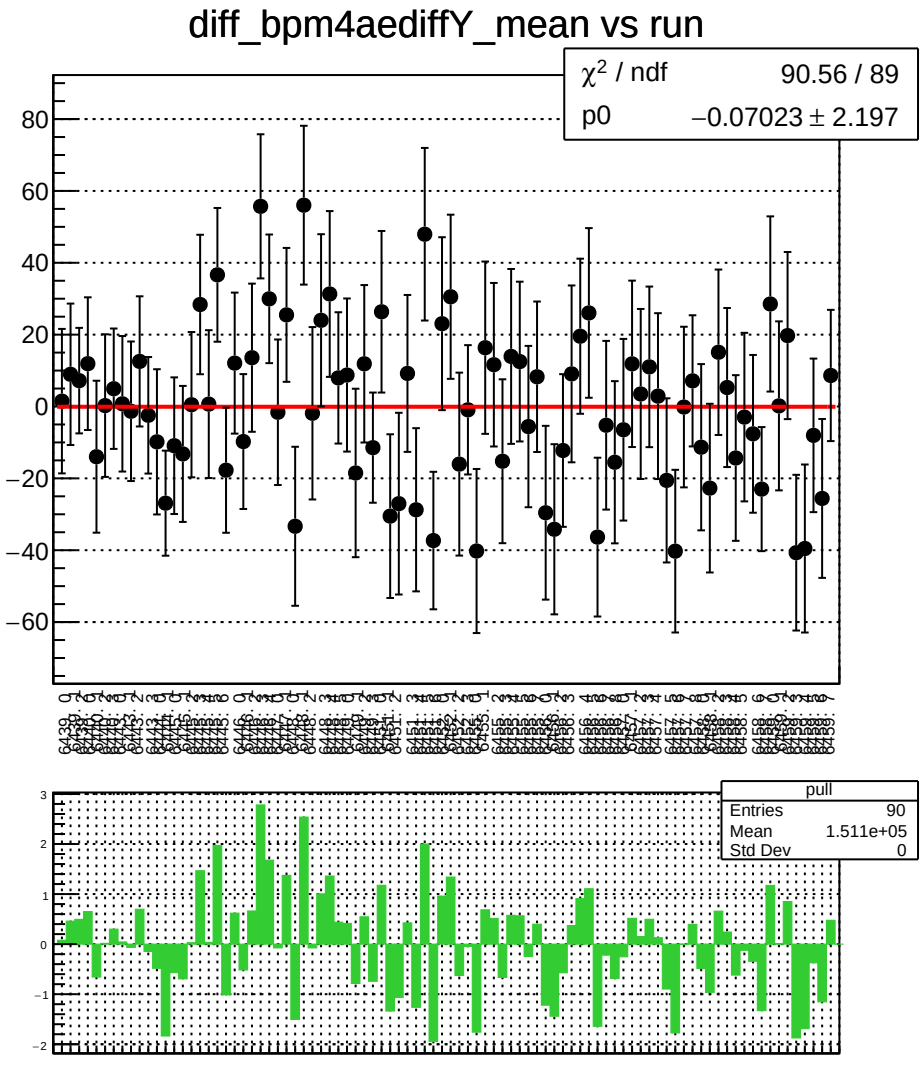

pull1D
Entries 90
Mean 0.00513
Std Dev 0.8803

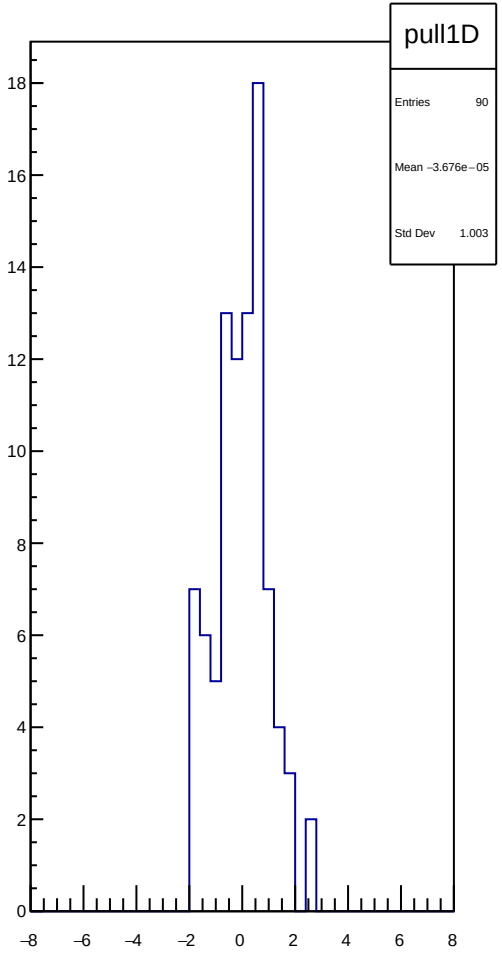

diff_bpm4aediffX_rms vs run
χ² / ndf 1.726e+04 / 89
p0 8428 ± 6.344
11500
11000
10500
10000
9500
9000
8500
8000
7500
7000

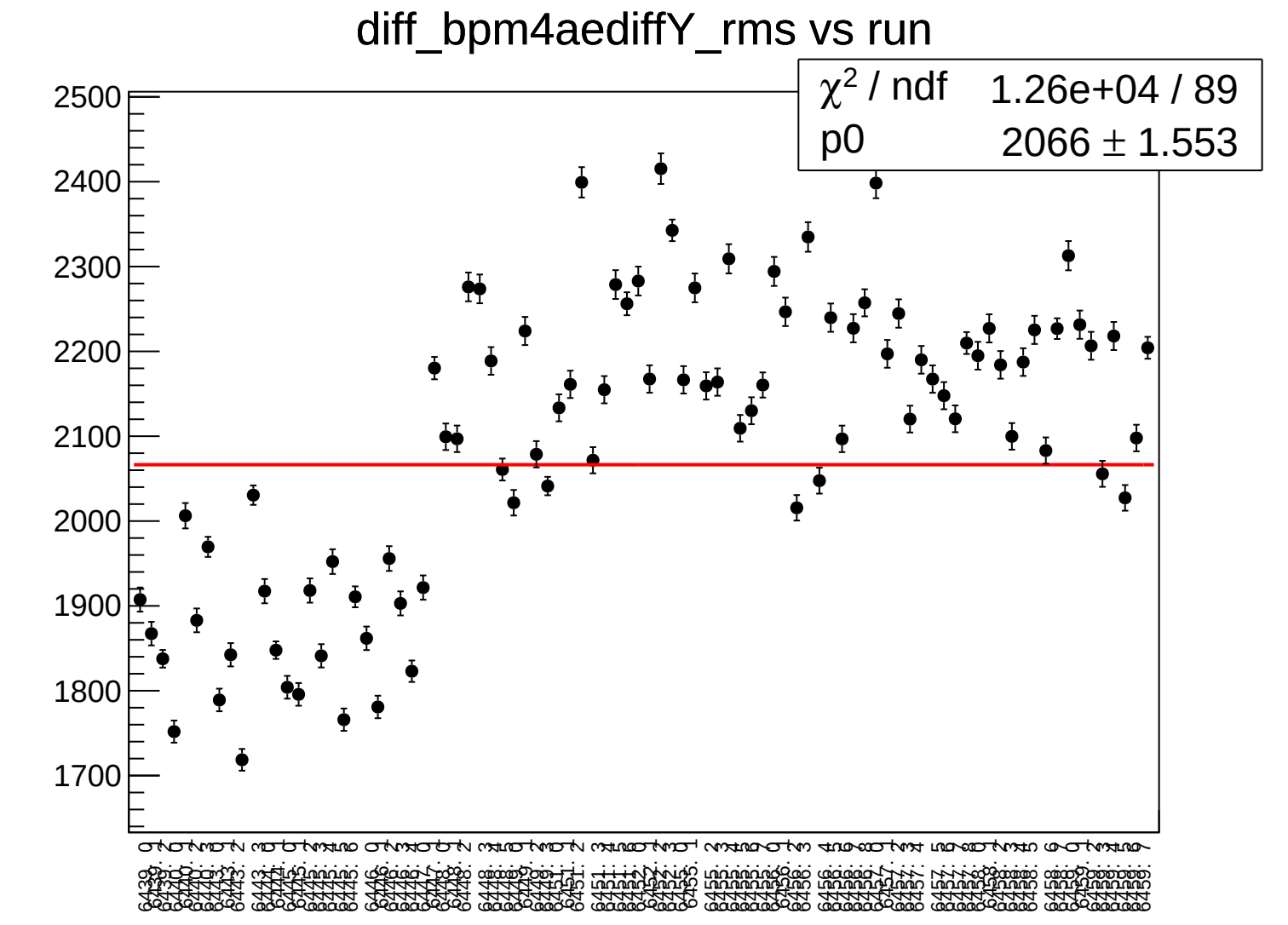

diff_bpm4aesumY_mean vs run
χ² / ndf 93.52 / 89
p0 4.258 ± 8.999
pull
Entries 90
Mean −984.8
Std Dev 0

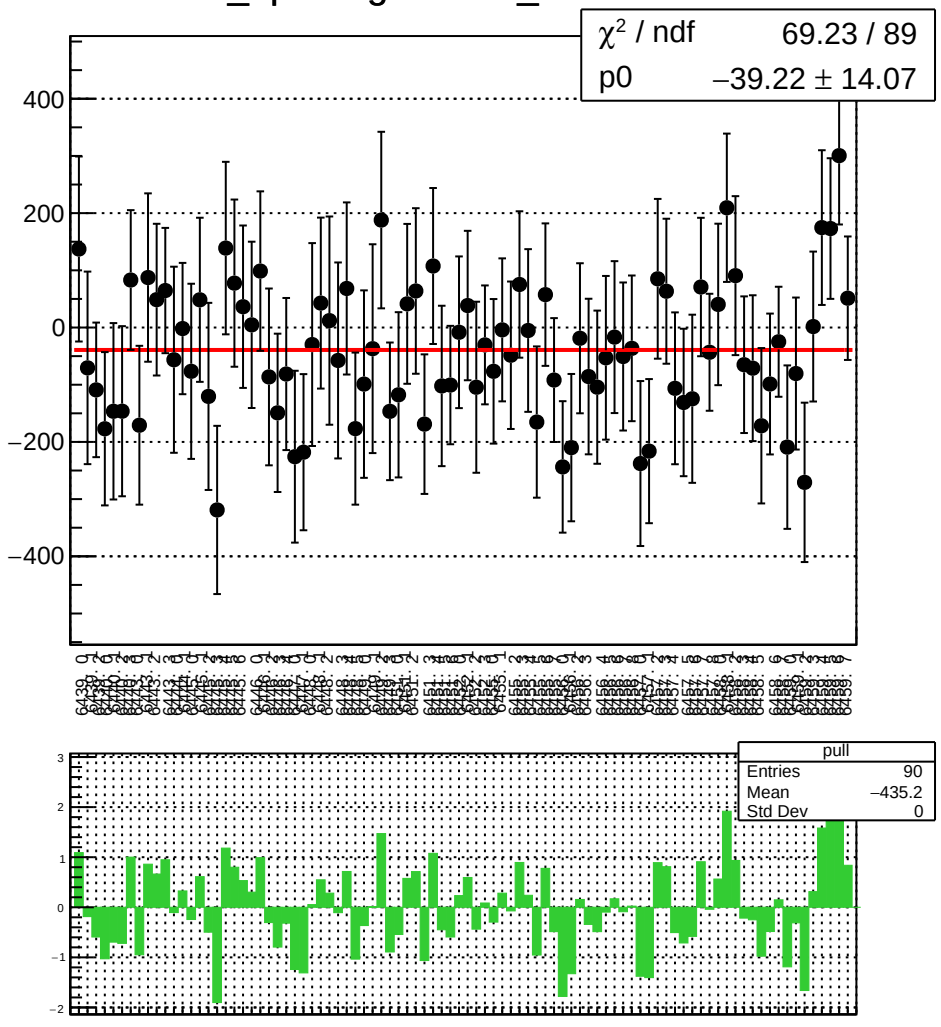

pull1D
Entries 90
Mean 0.003683
Std Dev 1.019

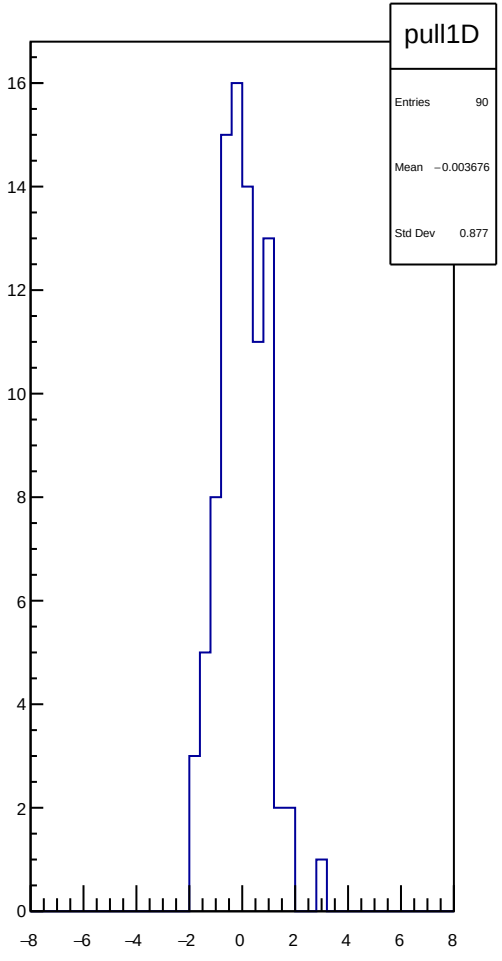

diff_bpm4aesumY_rms vs run
χ² / ndf 7023 / 89
p0 8477 ± 6.363
9500
9000
8500
8000
7500

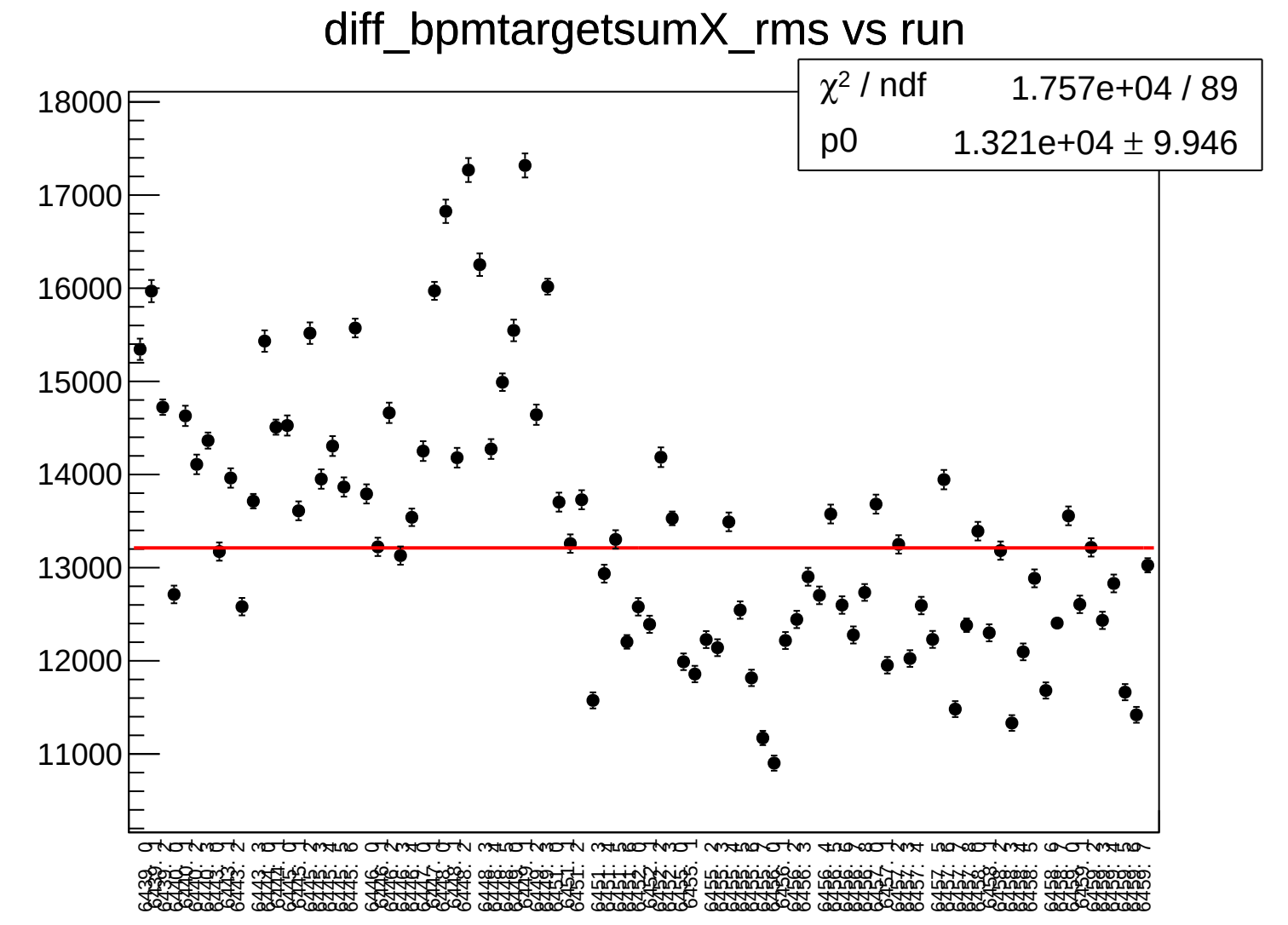

diff_bpm4aediffY_mean vs run
χ² / ndf 90.56 / 89
p0 −0.07023 ± 2.197
pull
Entries 90
Mean 1.511e+05
Std Dev 0

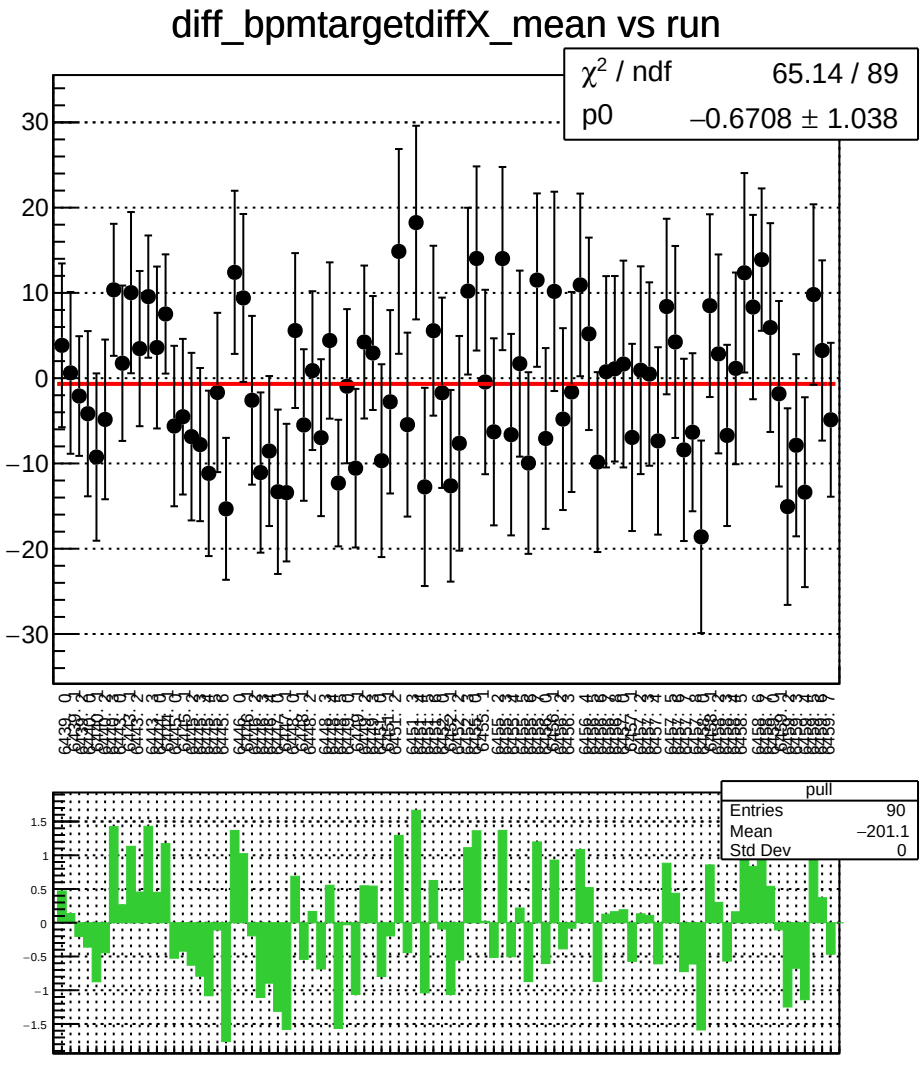

pull1D
Entries 90
Mean −3.676e−05
Std Dev 1.003

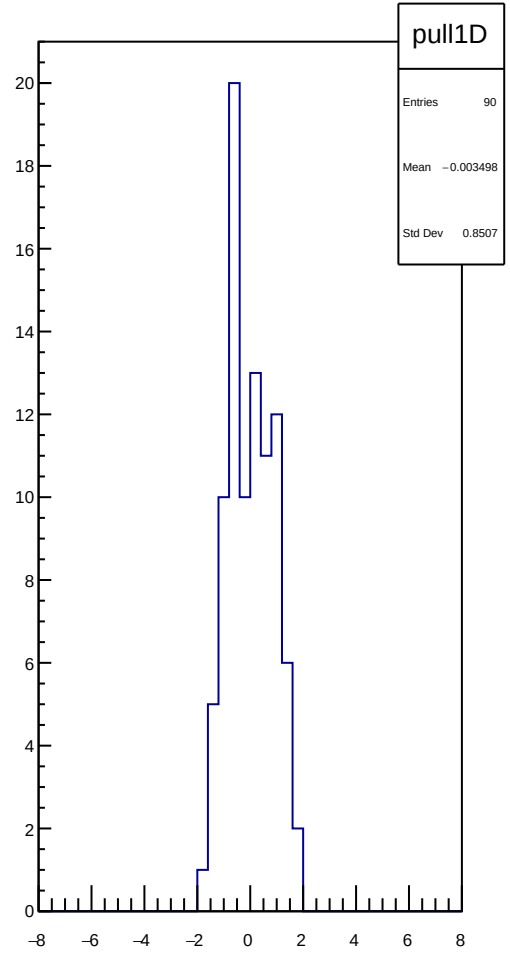

diff_bpm4aediffY_rms vs run
χ² / ndf 1.26e+04 / 89
p0 2066 ± 1.553
2500
2400
2300
2200
2100
2000
1900
1800
1700

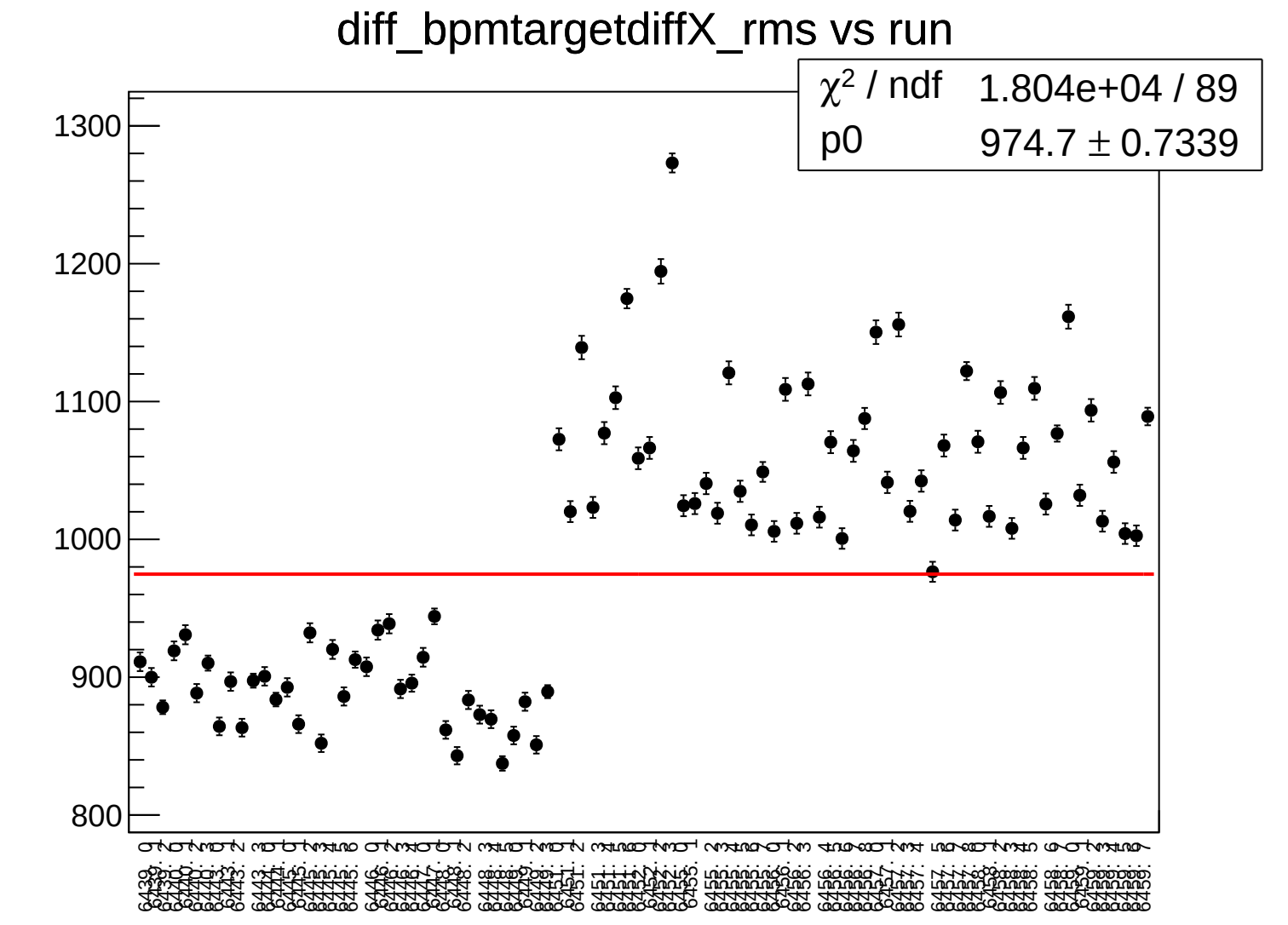

diff_bpmtargetsumX_mean vs run
χ^2 / ndf 69.23 / 89
p0 −39.22 ± 14.07
400
200
0
−200
−400
pull
Entries 90
Mean −435.2
Std Dev 0
3
2
1
0
−1
−2

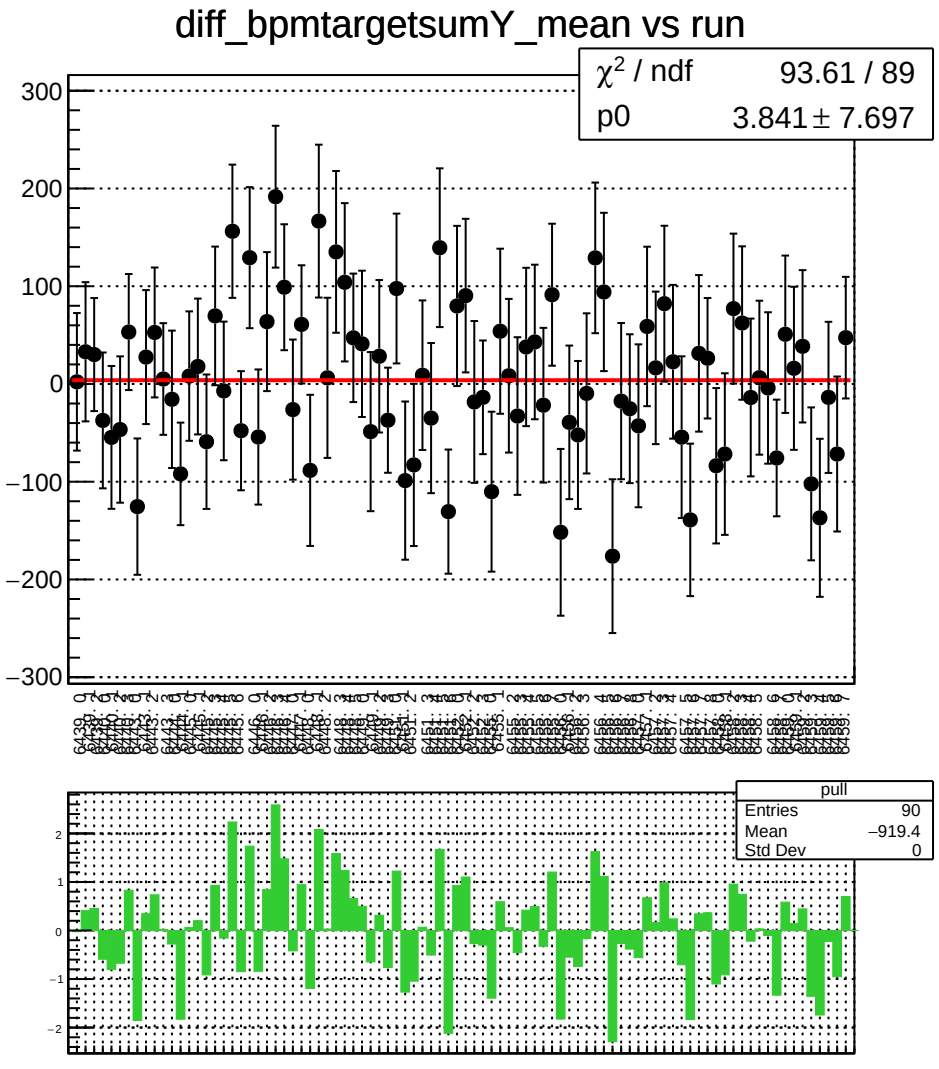

pull1D
Entries 90
Mean −0.003676
Std Dev 0.877
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

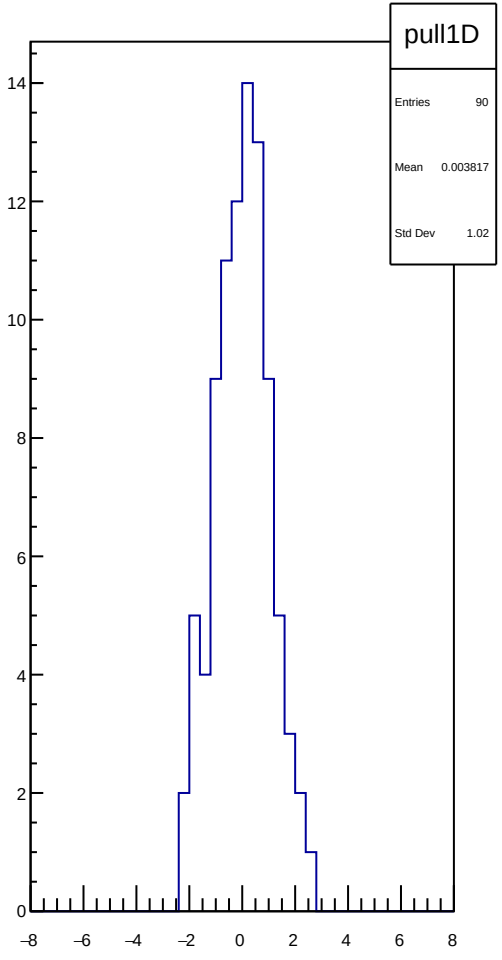

diff_bpmtargetsumX_rms vs run
χ² / ndf 1.757e+04 / 89
p0 1.321e+04 ± 9.946
18000
17000
16000
15000
14000
13000
12000
11000

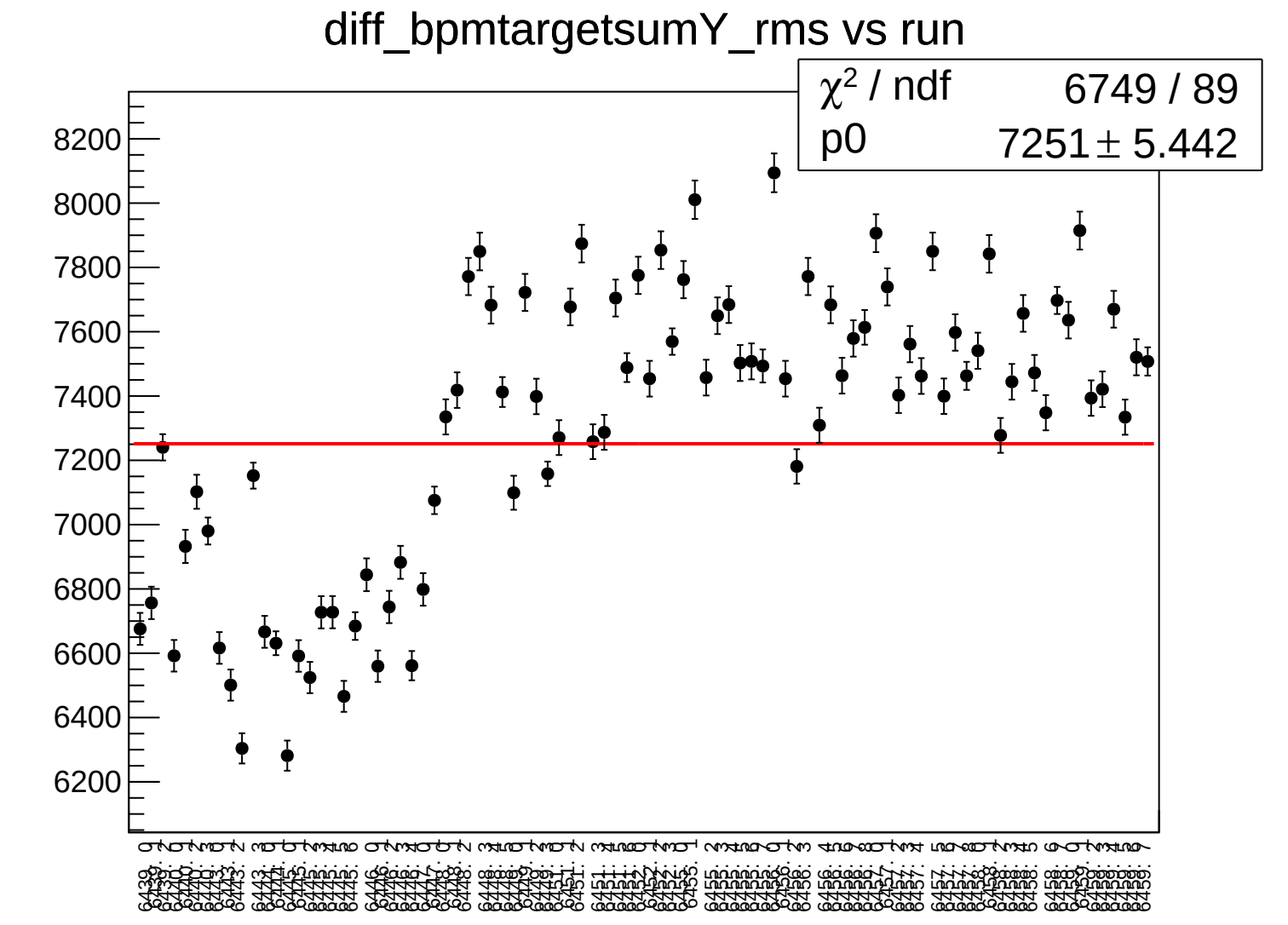

diff_bpmtargetdiffX_mean vs run
χ² / ndf 65.14 / 89
p0 −0.6708 ± 1.038
pull
Entries 90
Mean −201.1
Std Dev 0

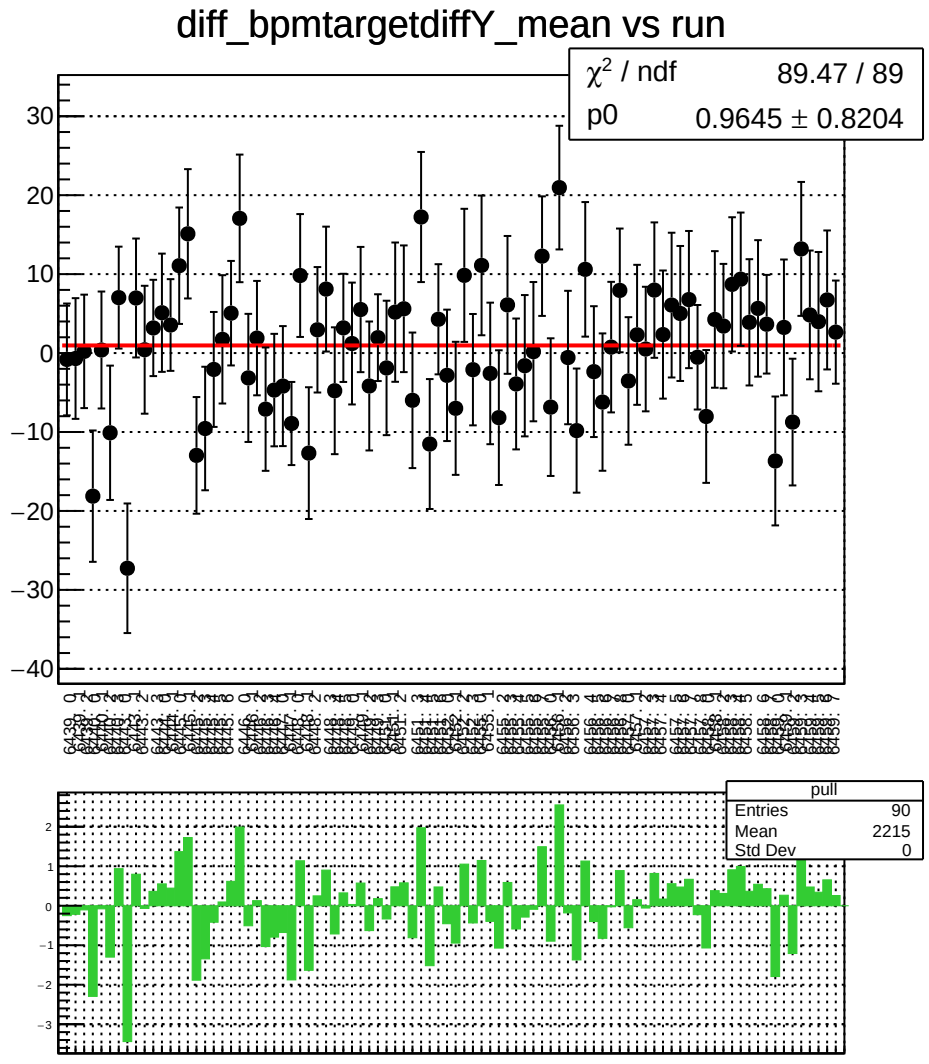

pull1D
Entries 90
Mean −0.003498
Std Dev 0.8507

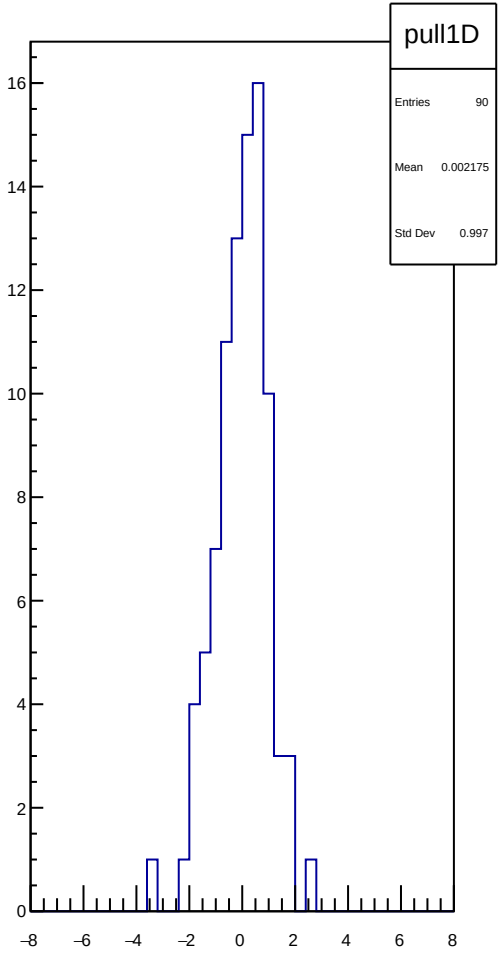

diff_bpmtargetdiffX_rms vs run
χ² / ndf 1.804e+04 / 89
p0 974.7 ± 0.7339
1300
1200
1100
1000
900
800

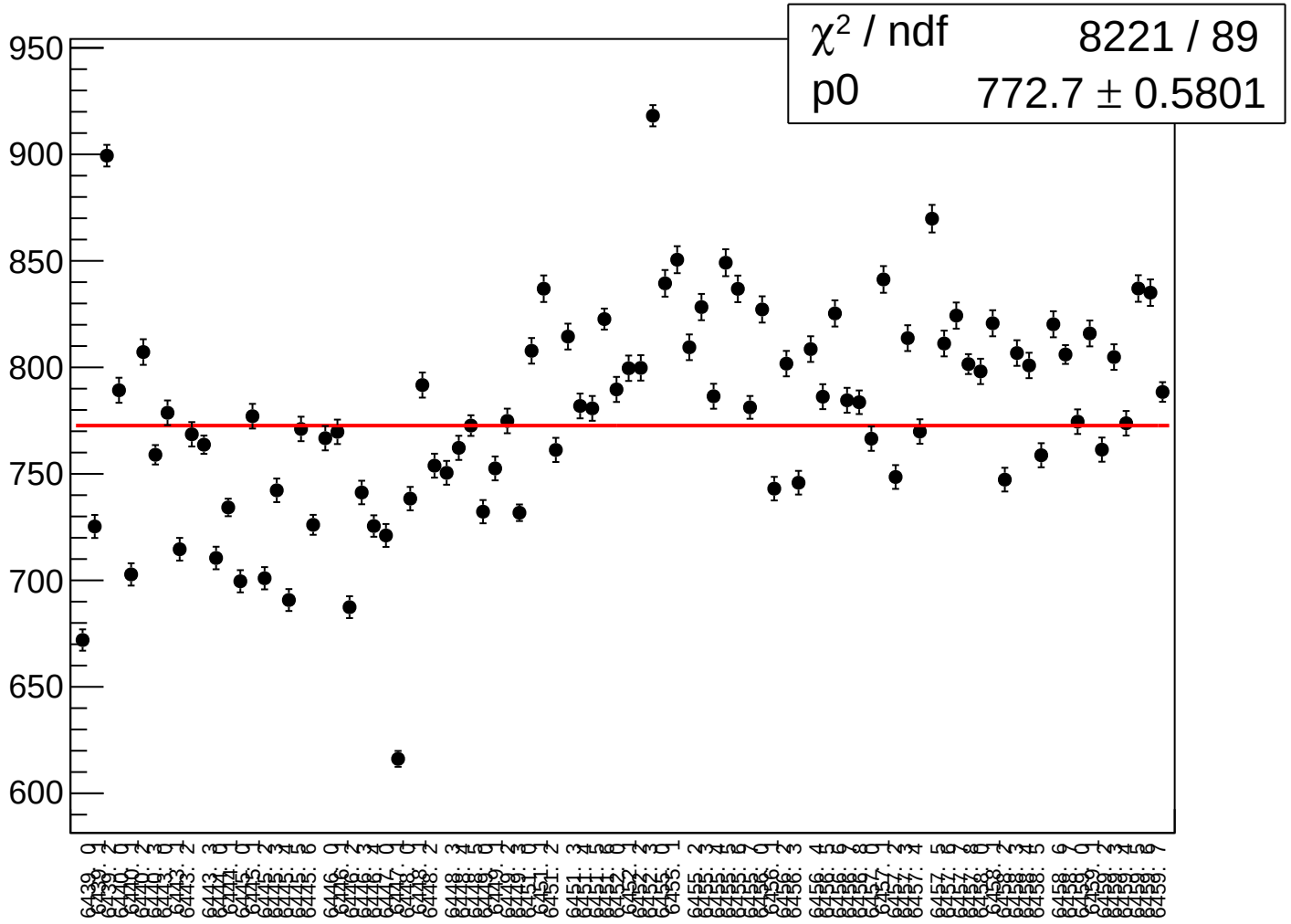

diff_bpmtargetsumY_mean vs run
χ² / ndf 93.61 / 89
p0 3.841 ± 7.697
pull
Entries 90
Mean −919.4
Std Dev 0

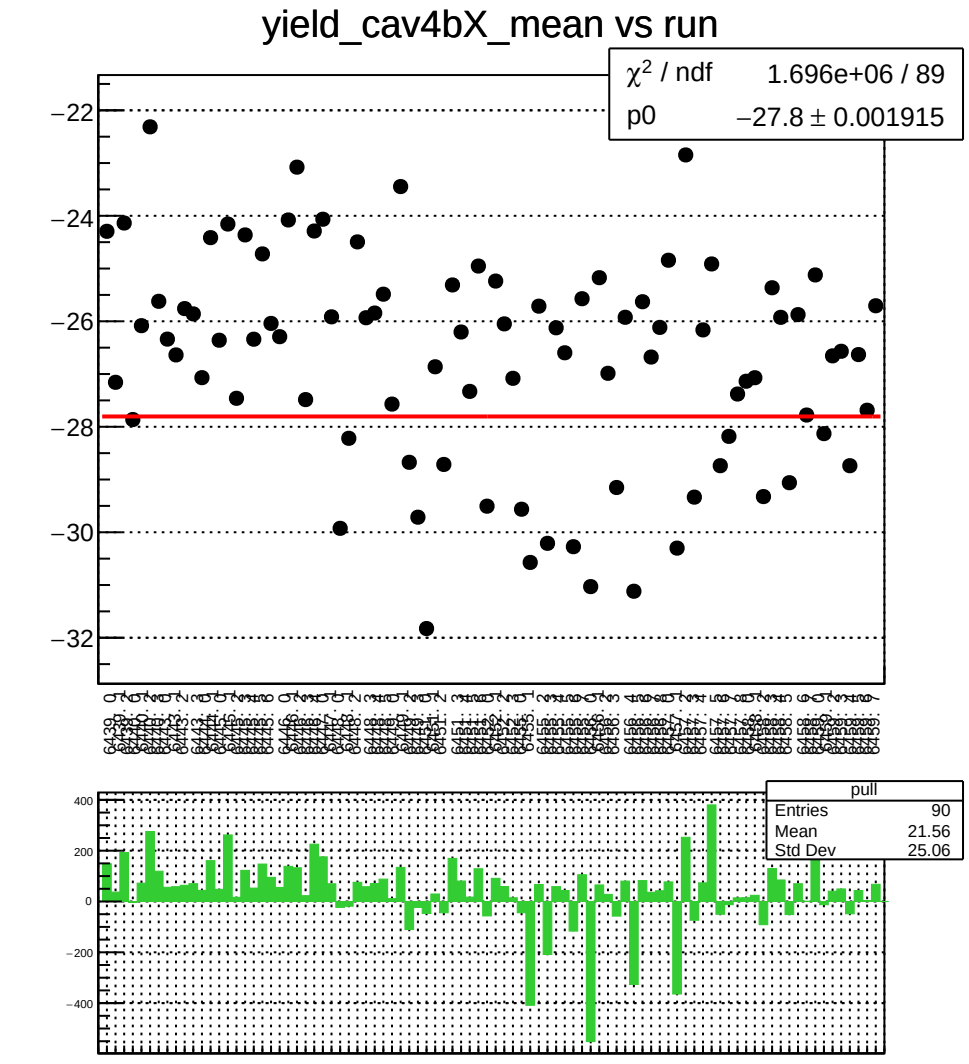

pull1D
Entries 90
Mean 0.003817
Std Dev 1.02

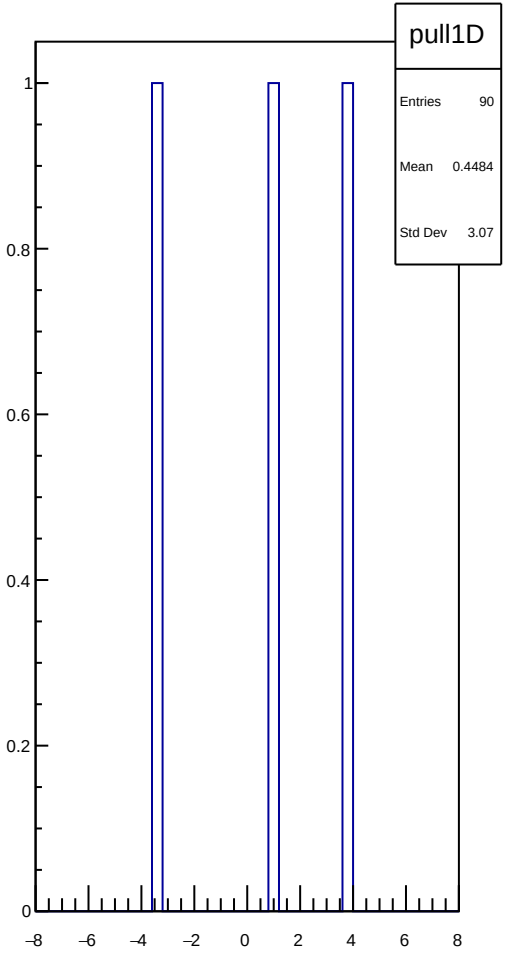

diff_bpmtargetsumY_rms vs run
χ² / ndf 6749 / 89
p0 7251 ± 5.442
8200
8000
7800
7600
7400
7200
7000
6800
6600
6400
6200

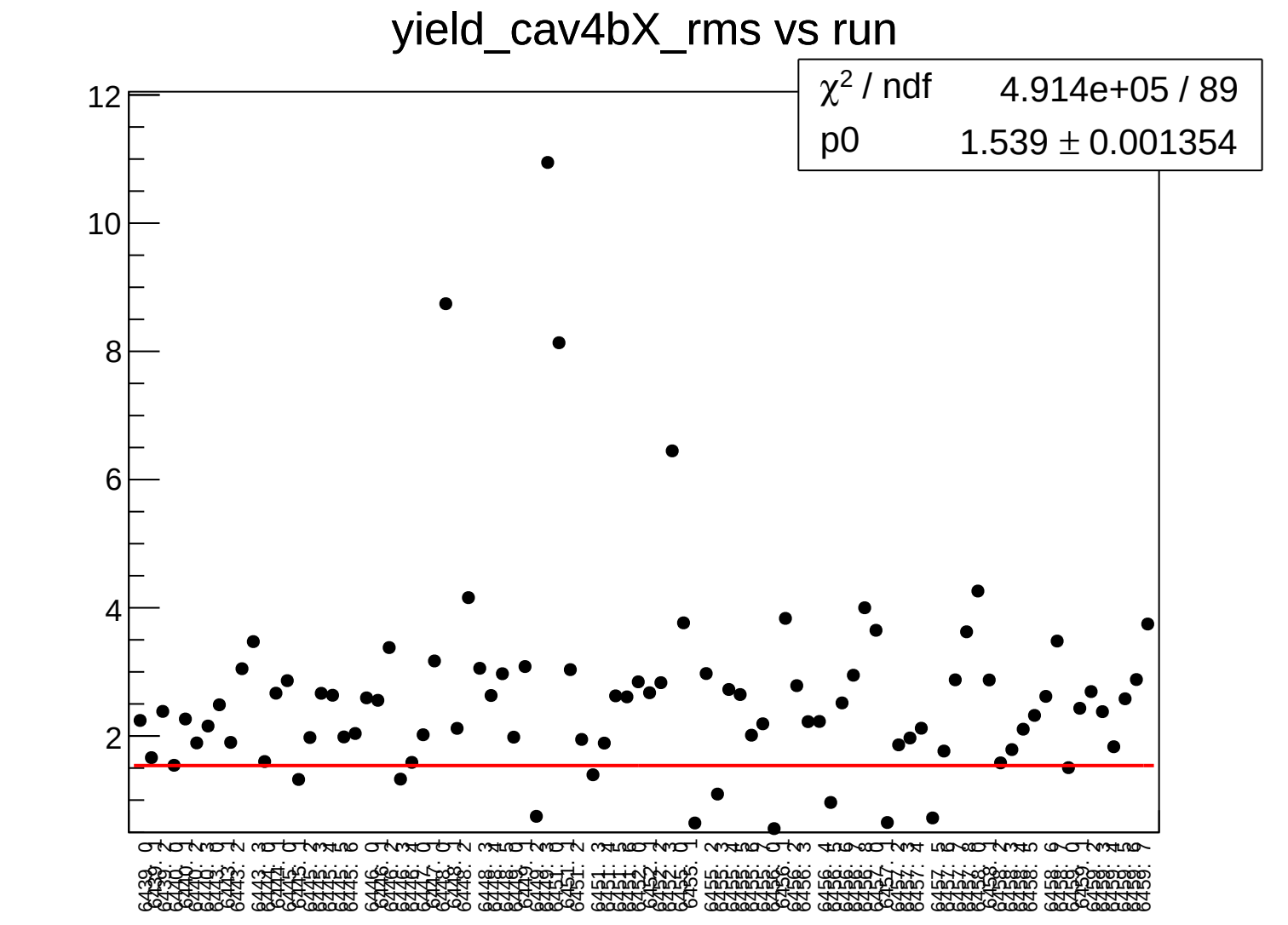

diff_bpmtargetdiffY_mean vs run
χ^2 / ndf 89.47 / 89
p0 0.9645 ± 0.8204
pull
Entries 90
Mean 2215
Std Dev 0

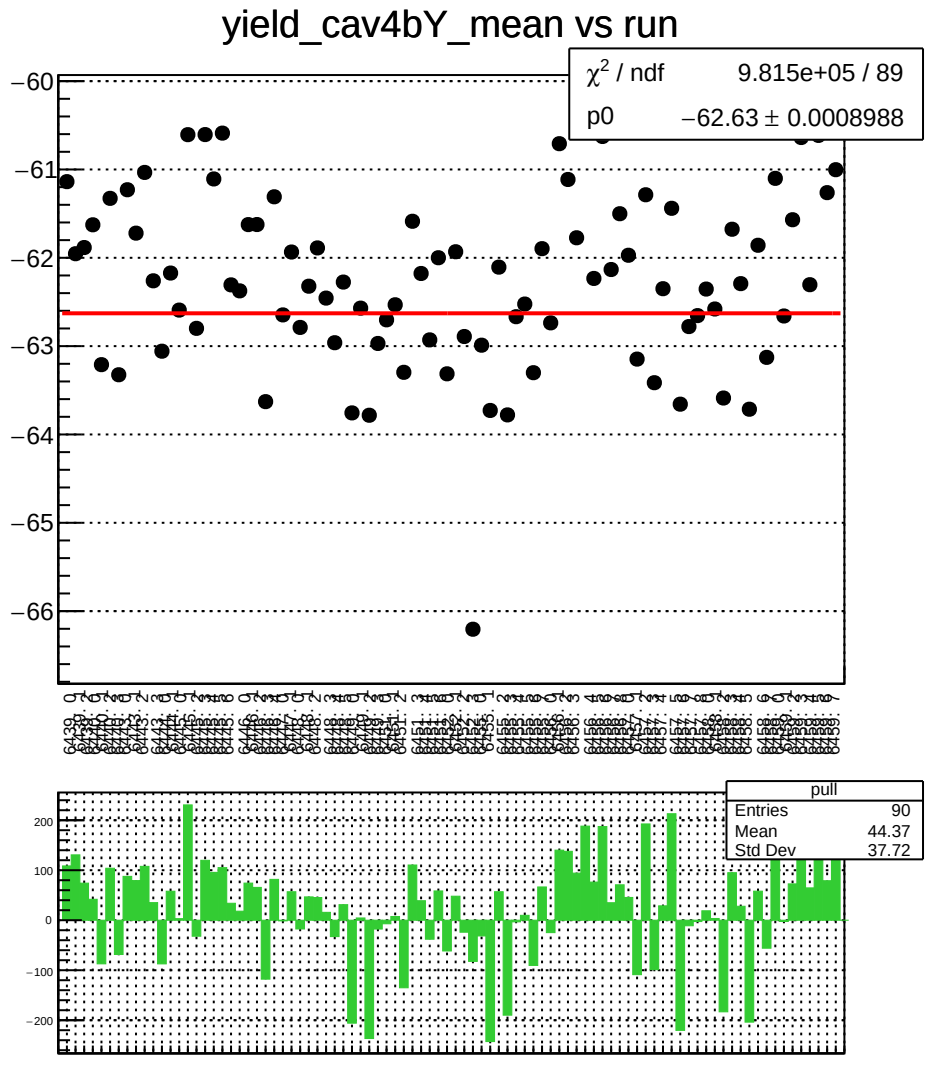

pull1D
Entries 90
Mean 0.002175
Std Dev 0.997

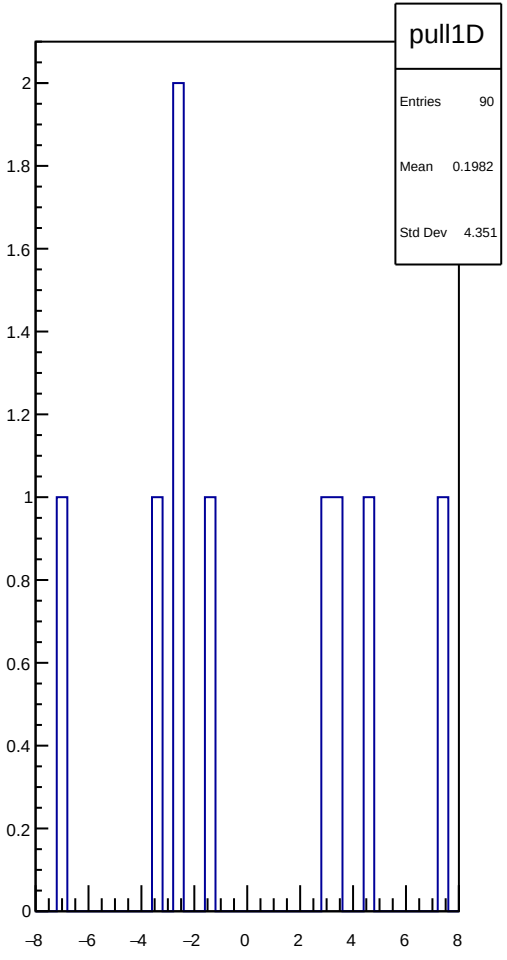

diff_bpmtargetdiffY_rms vs run
χ² / ndf 8221 / 89
p0 772.7 ± 0.5801
950
900
850
800
750
700
650
600

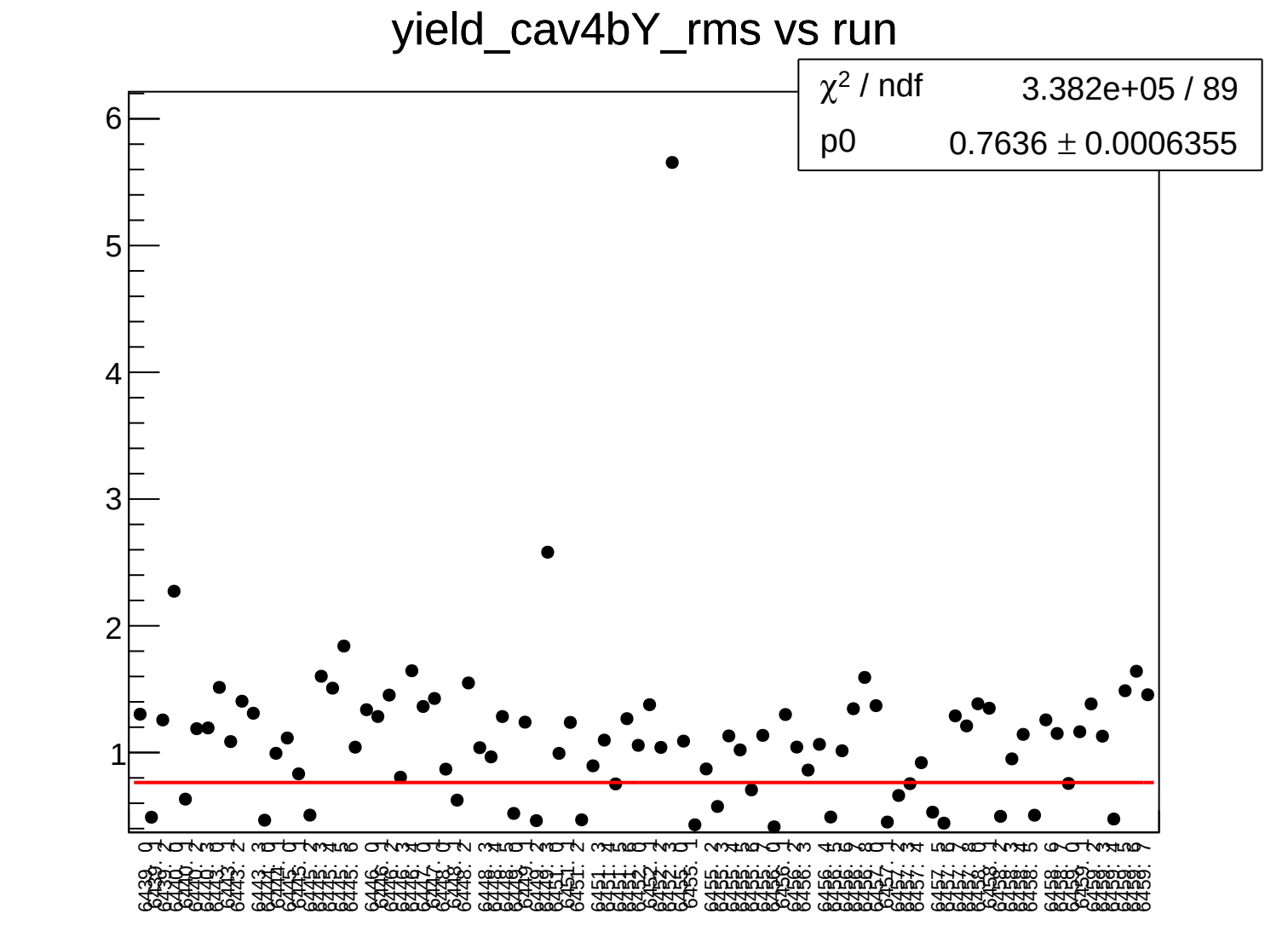

yield_cav4bX_mean vs run
χ² / ndf 1.696e+06 / 89
p0 −27.8 ± 0.001915
−22
−24
−26
−28
−30
−32
pull
Entries 90
Mean 21.56
Std Dev 25.06
400
200
0
−200
−400

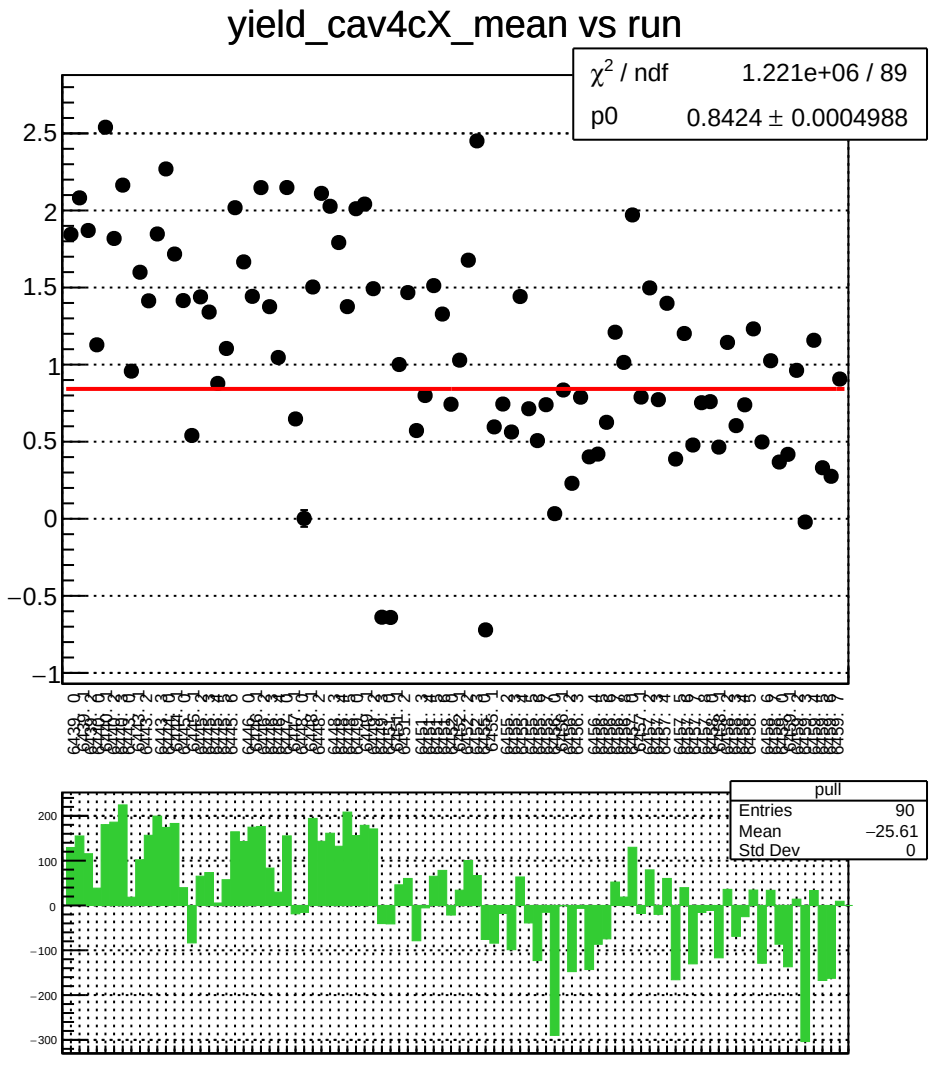

pull1D
Entries 90
Mean 0.4484
Std Dev 3.07
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

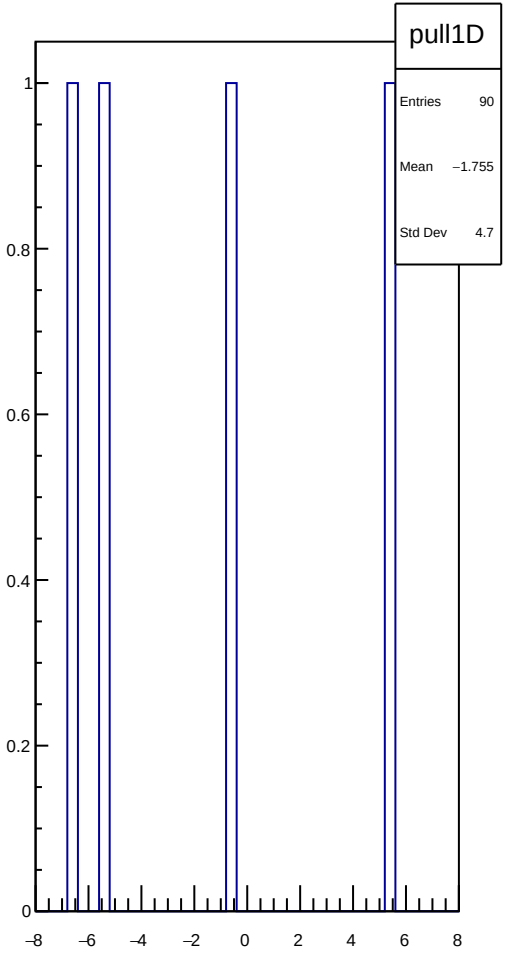

yield_cav4bX_rms vs run
χ^2 / ndf 4.914e+05 / 89
p0 1.539 ± 0.001354
12
10
8
6
4
2

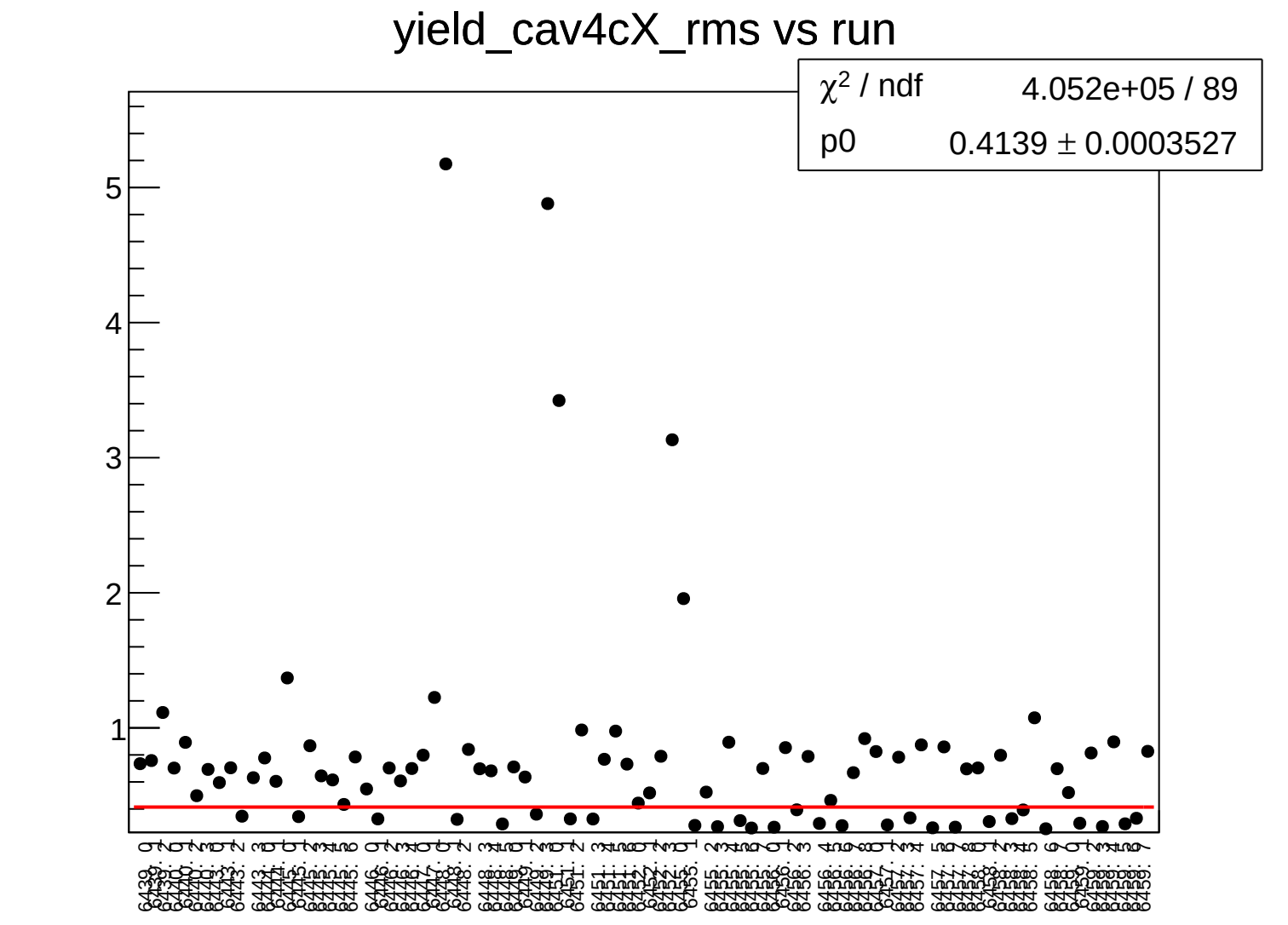

yield_cav4bY_mean vs run
χ² / ndf 9.815e+05 / 89
p0 −62.63 ± 0.0008988
pull
Entries 90
Mean 44.37
Std Dev 37.72

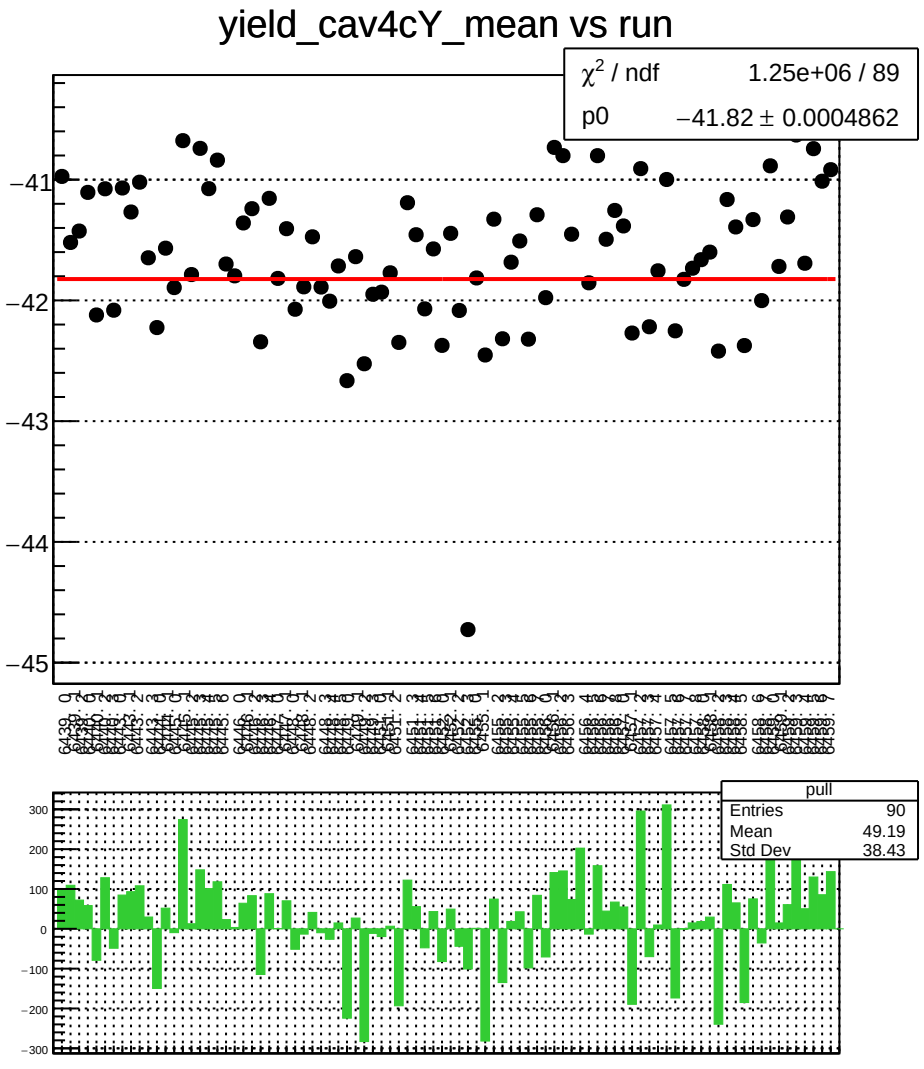

pull1D
Entries 90
Mean 0.1982
Std Dev 4.351

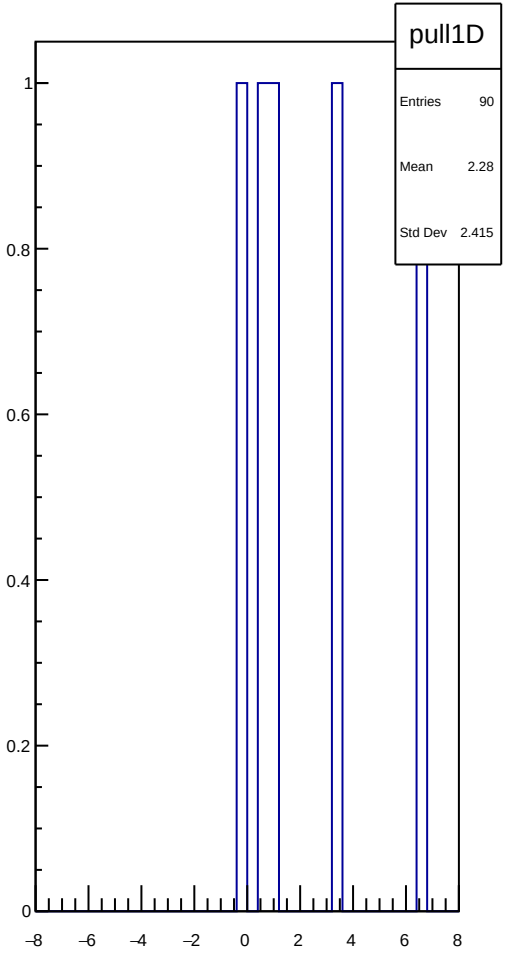

yield_cav4bY_rms vs run
χ² / ndf 3.382e+05 / 89
p0 0.7636 ± 0.0006355
6
5
4
3
2
1

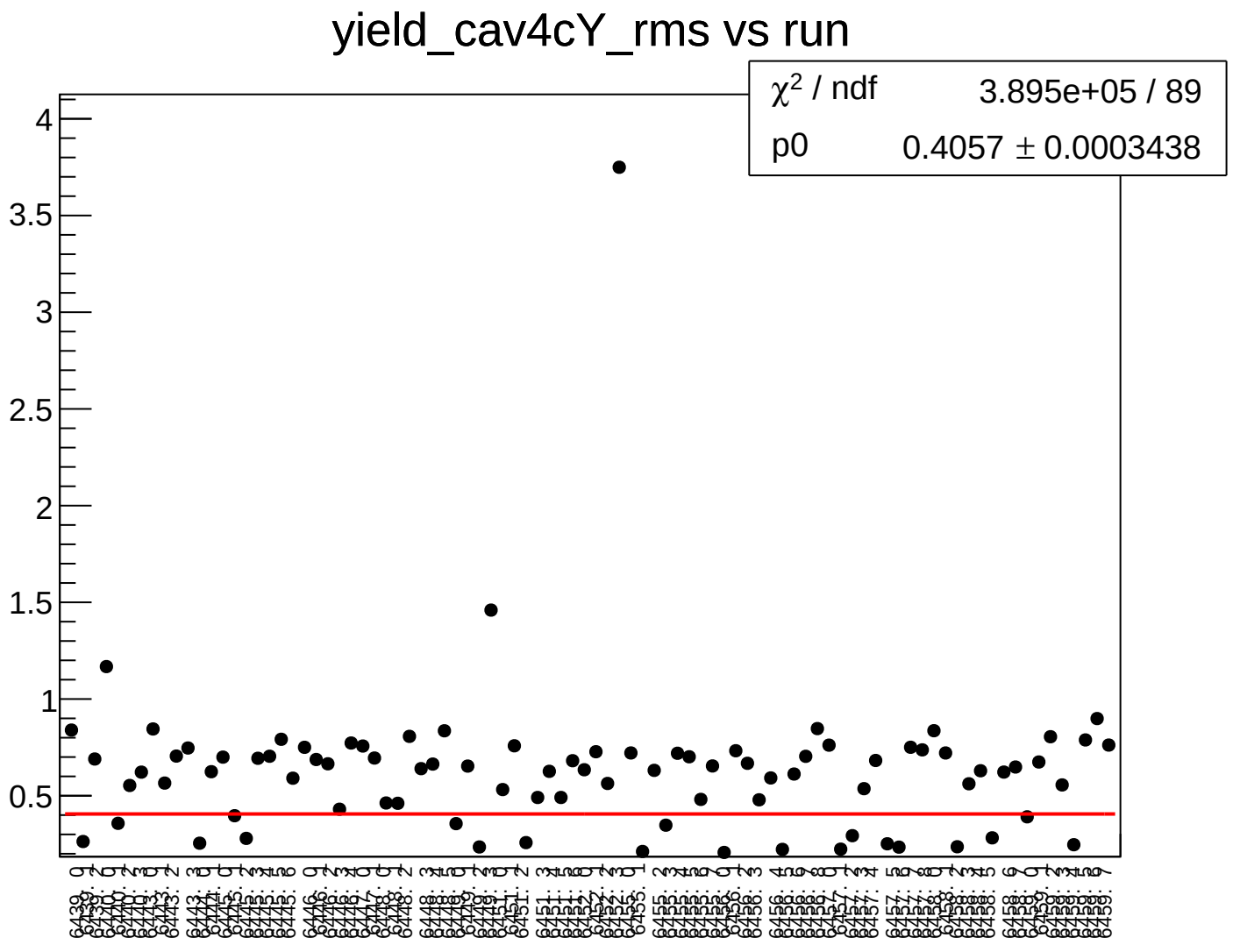

yield_cav4cX_mean vs run
χ² / ndf 1.221e+06 / 89
p0 0.8424 ± 0.0004988
pull
Entries 90
Mean −25.61
Std Dev 0

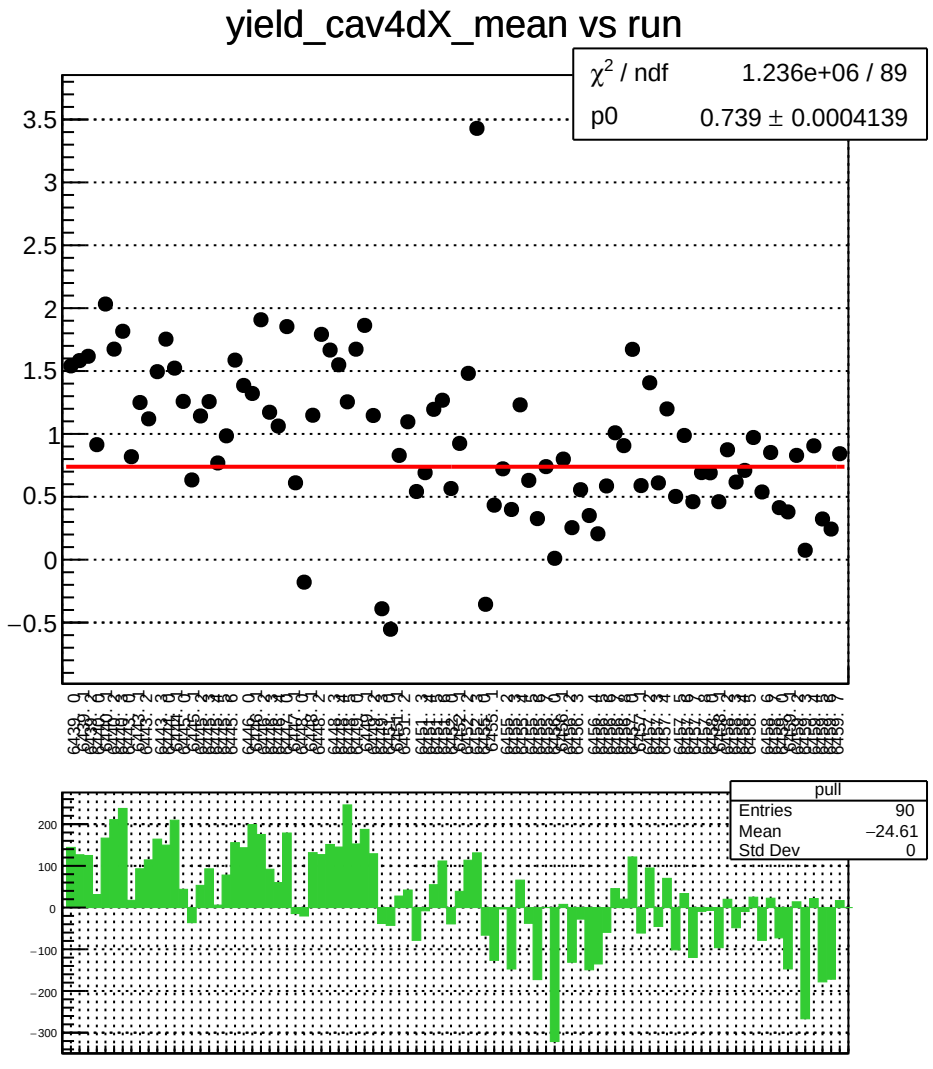

pull1D
Entries 90
Mean −1.755
Std Dev 4.7

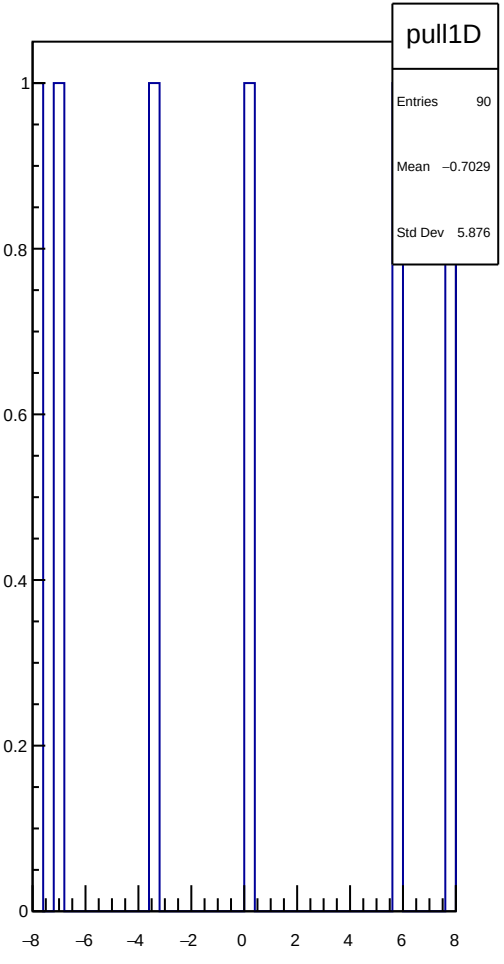

yield_cav4cX_rms vs run
χ^2 / ndf 4.052e+05 / 89
p0 0.4139 ± 0.0003527
5
4
3
2
1

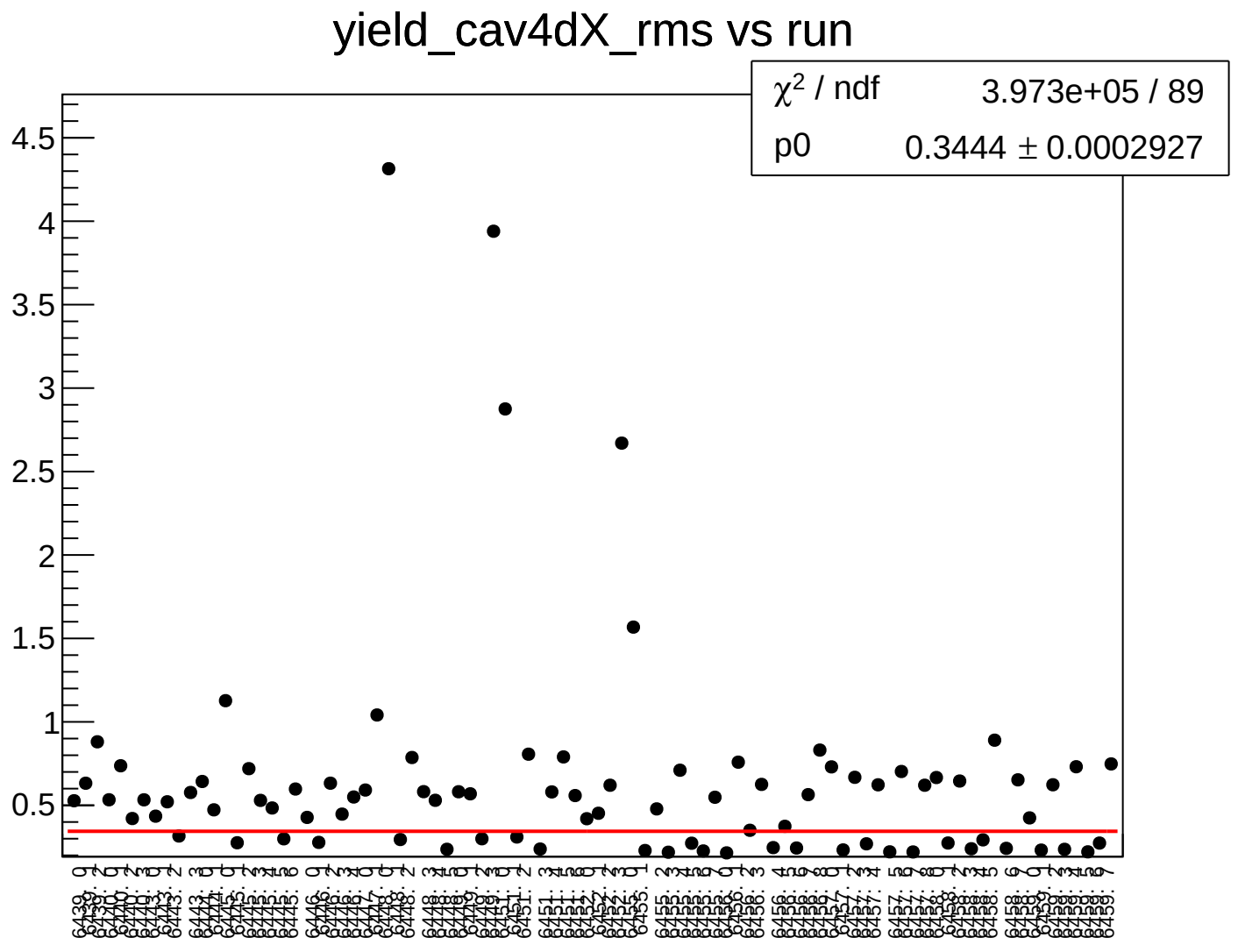

yield_cav4cY_mean vs run
χ² / ndf 1.25e+06 / 89
p0 −41.82 ± 0.0004862
−41
−42
−43
−44
−45
pull
Entries 90
Mean 49.19
Std Dev 38.43
300
200
100
0
−100
−200
−300

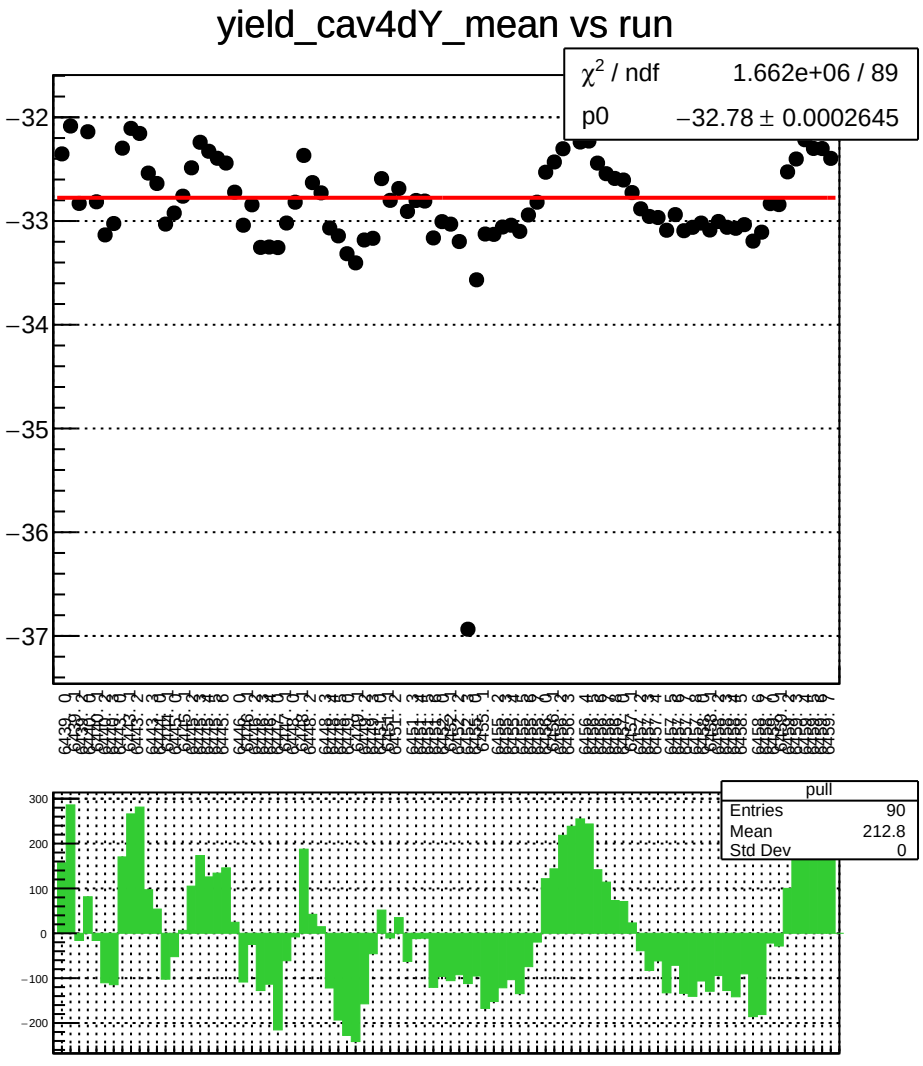

pull1D
Entries 90
Mean 2.28
Std Dev 2.415
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

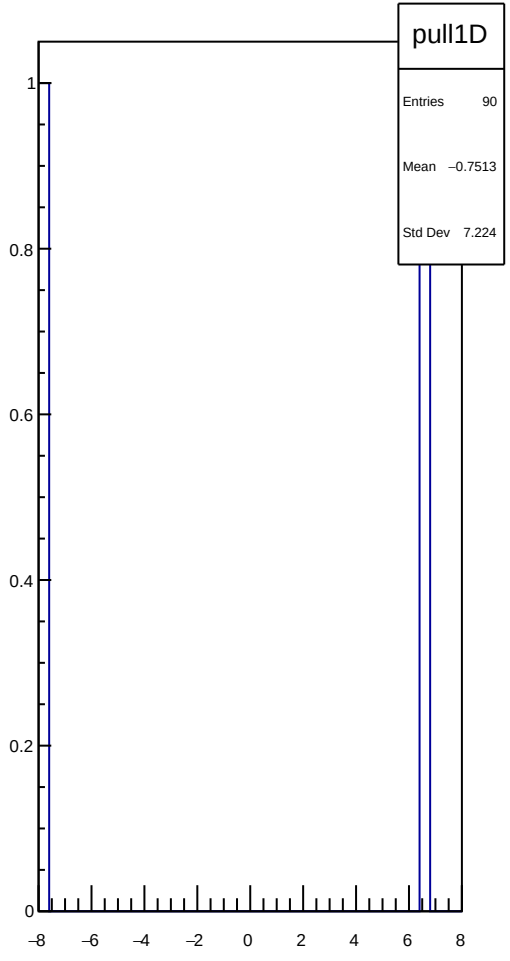

yield_cav4cY_rms vs run
χ² / ndf 3.895e+05 / 89
p0 0.4057 ± 0.0003438
4
3.5
3
2.5
2
1.5
1
0.5

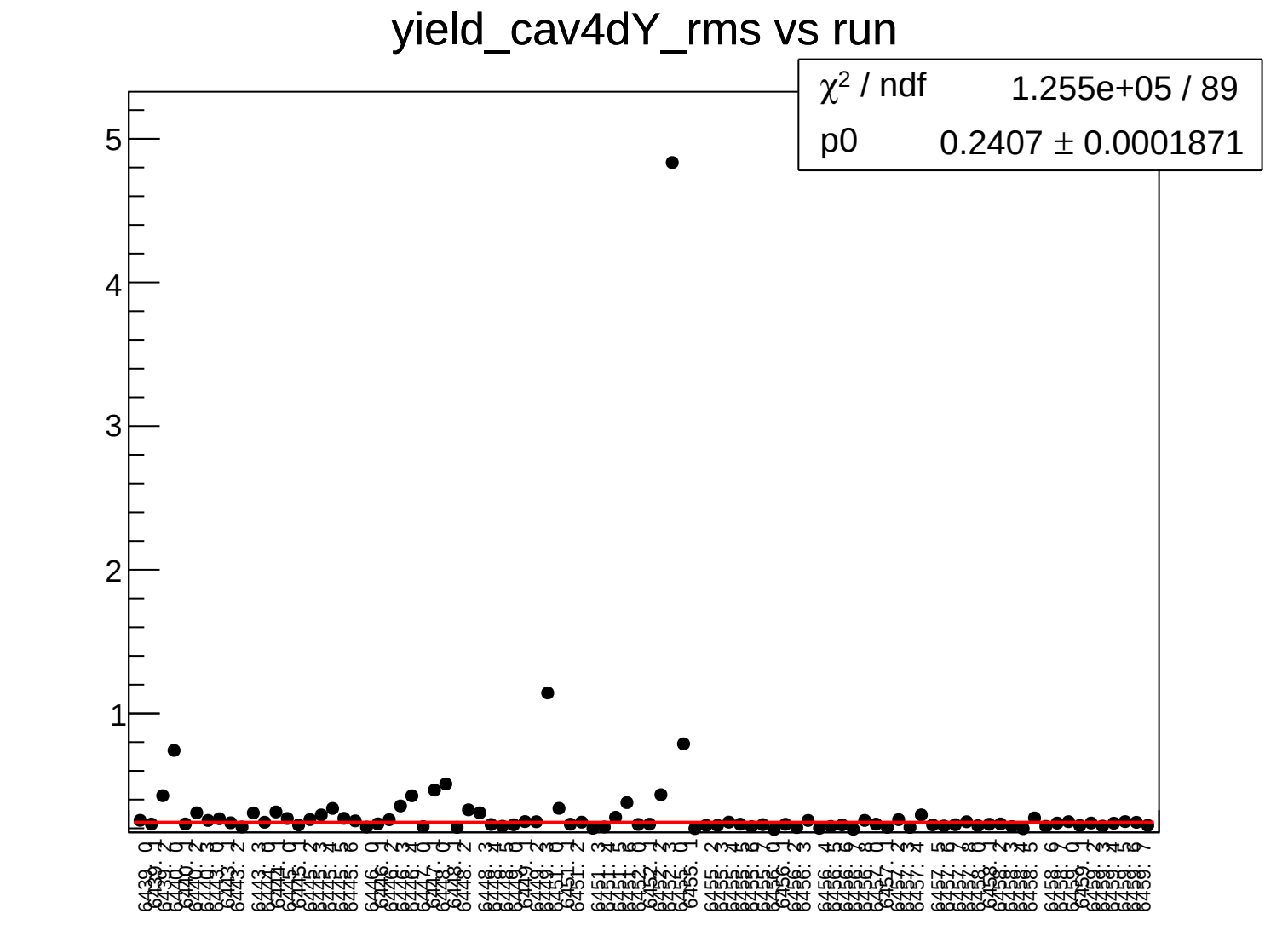

yield_cav4dX_mean vs run
χ² / ndf 1.236e+06 / 89
p0 0.739 ± 0.0004139
pull
Entries 90
Mean −24.61
Std Dev 0

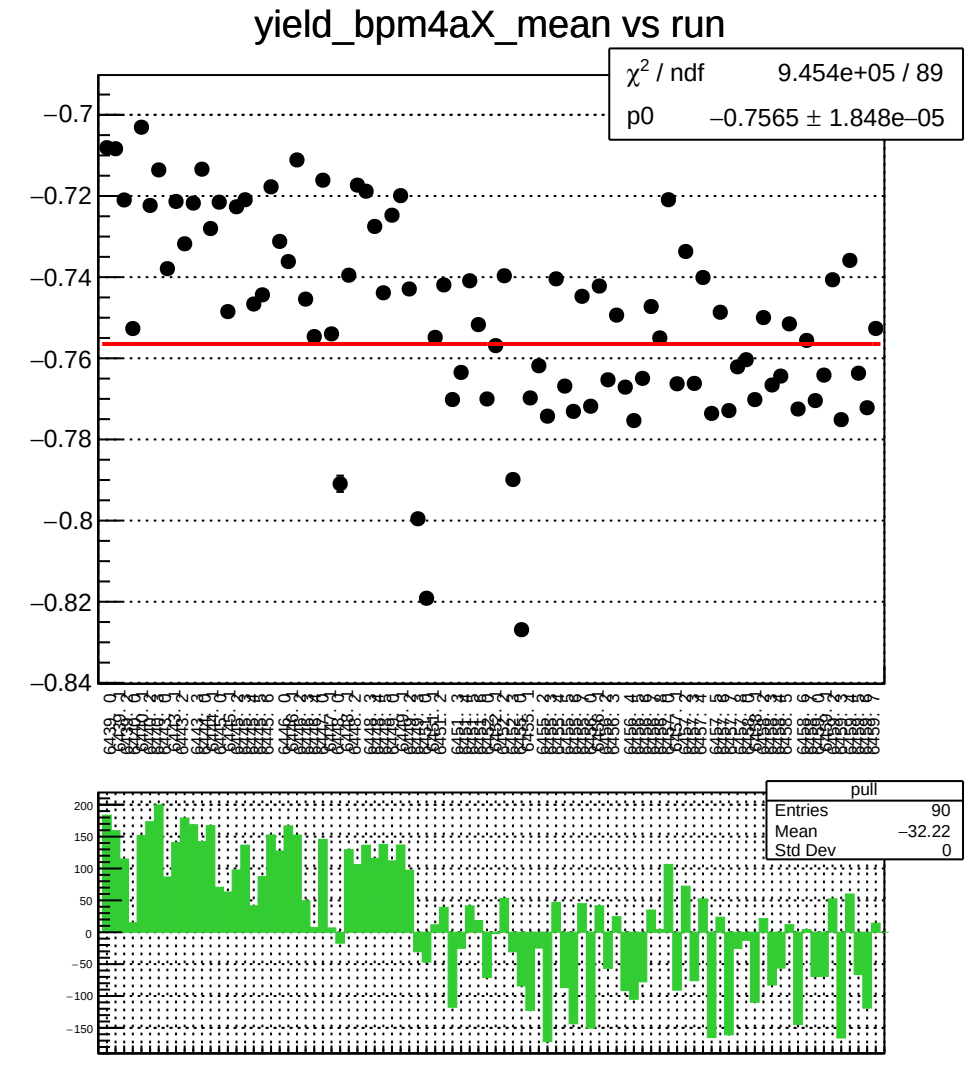

pull1D
Entries 90
Mean −0.7029
Std Dev 5.876

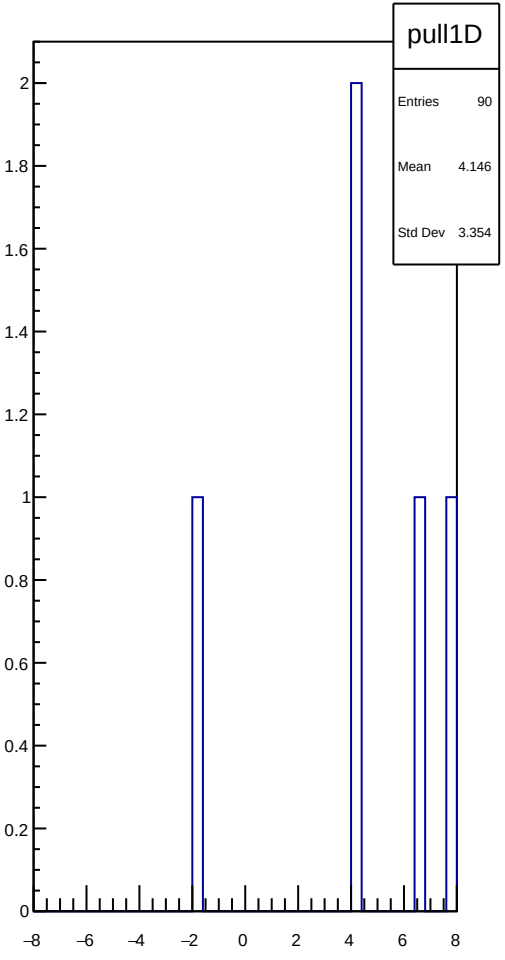

yield_cav4dX_rms vs run
χ² / ndf 3.973e+05 / 89
p0 0.3444 ± 0.0002927
4.5
4
3.5
3
2.5
2
1.5
1
0.5

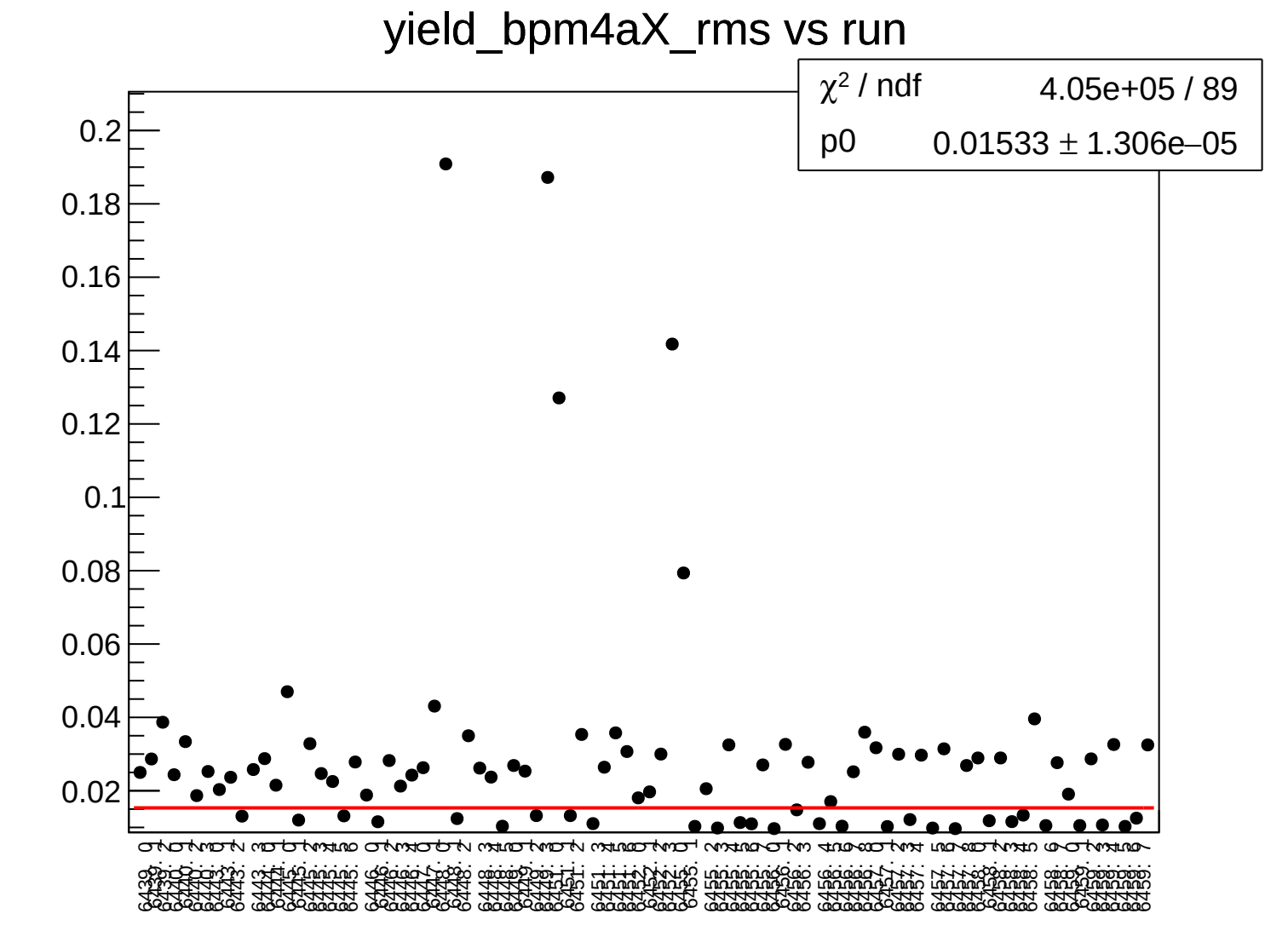

yield_cav4dY_mean vs run
χ² / ndf 1.662e+06 / 89
p0 −32.78 ± 0.0002645
−32
−33
−34
−35
−36
−37
pull
Entries 90
Mean 212.8
Std Dev 0
300
200
100
0
−100
−200

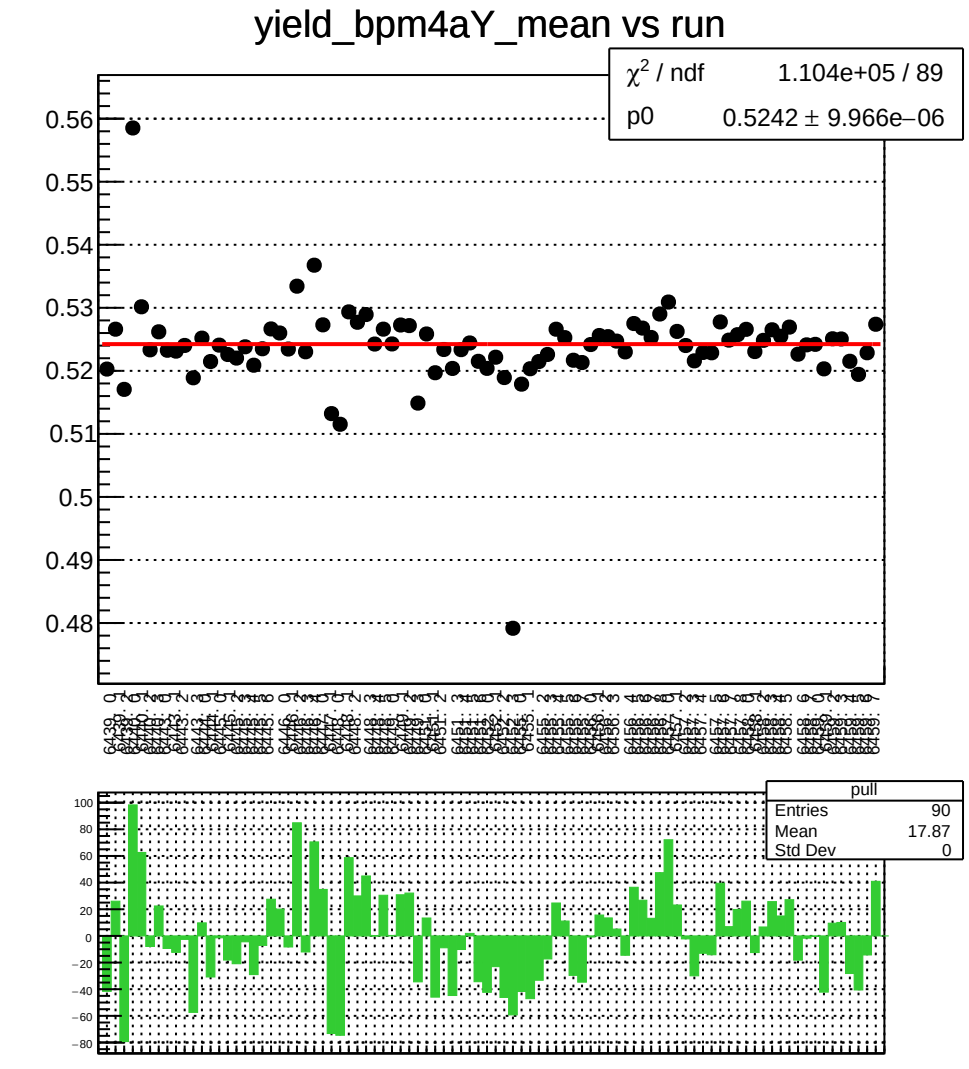

pull1D
Entries 90
Mean −0.7513
Std Dev 7.224
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

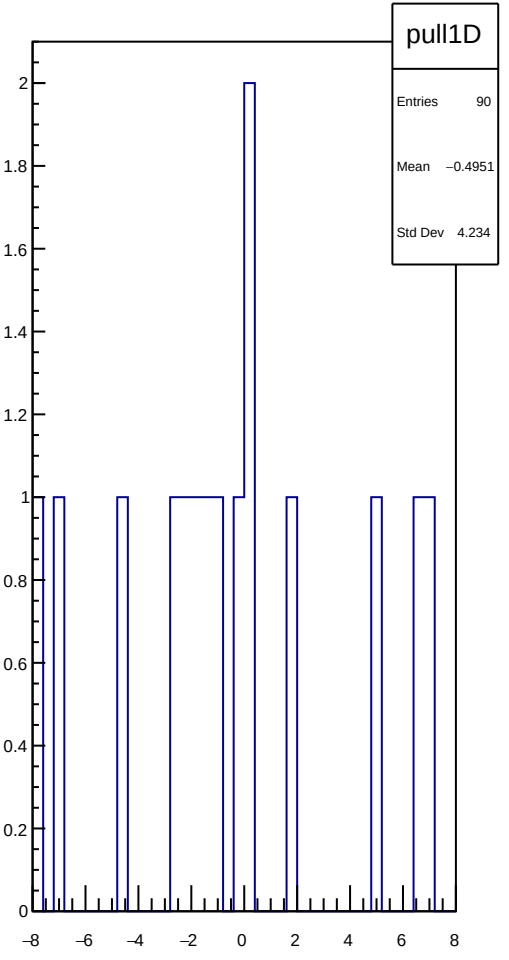

yield_cav4dY_rms vs run
χ² / ndf 1.255e+05 / 89
p0 0.2407 ± 0.0001871
5
4
3
2
1

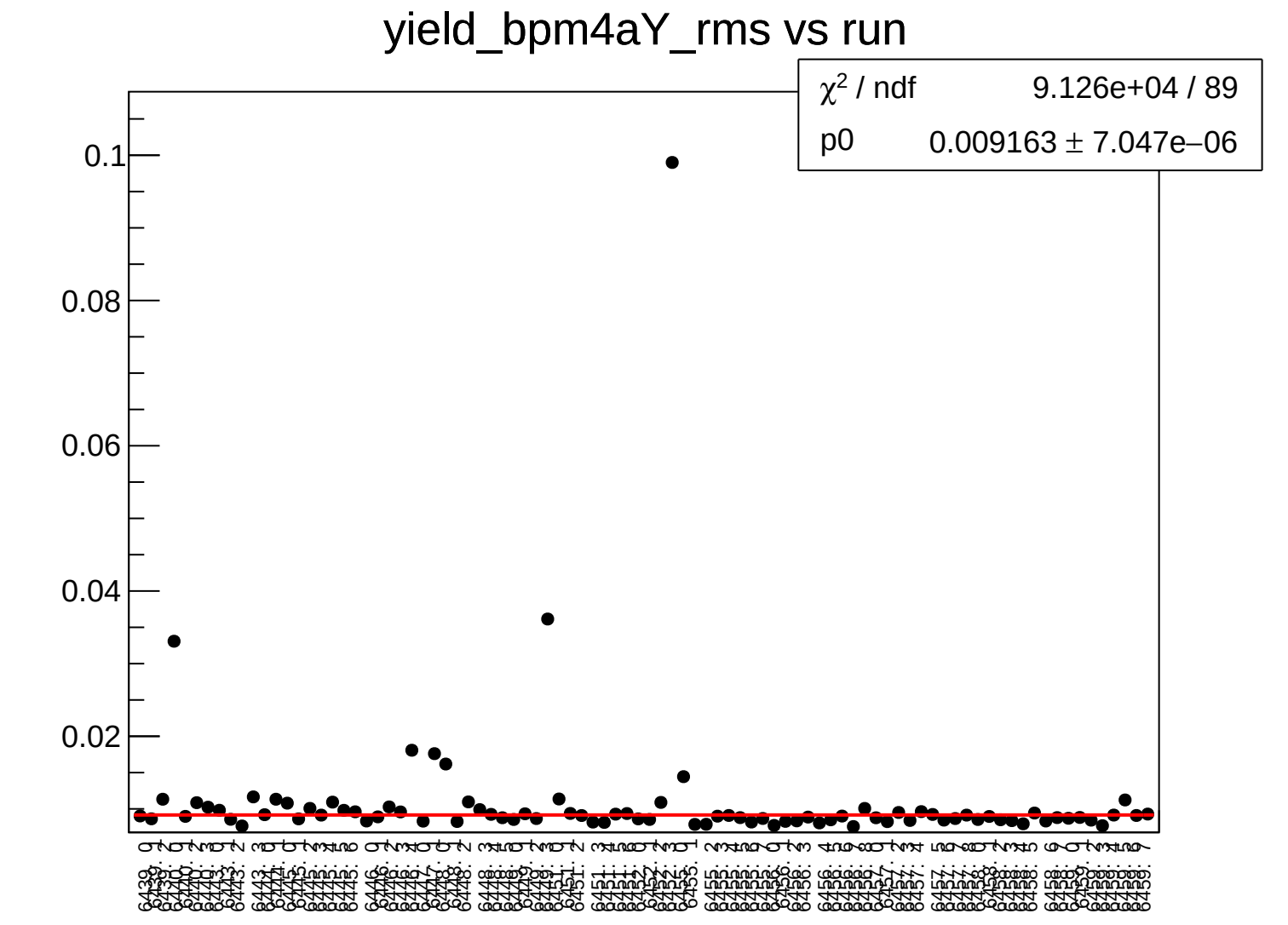

yield_bpm4aX_mean vs run
χ² / ndf 9.454e+05 / 89
p0 −0.7565 ± 1.848e−05
−0.7
−0.72
−0.74
−0.76
−0.78
−0.8
−0.82
−0.84
pull
Entries 90
Mean −32.22
Std Dev 0
200
150
100
50
0
−50
−100
−150

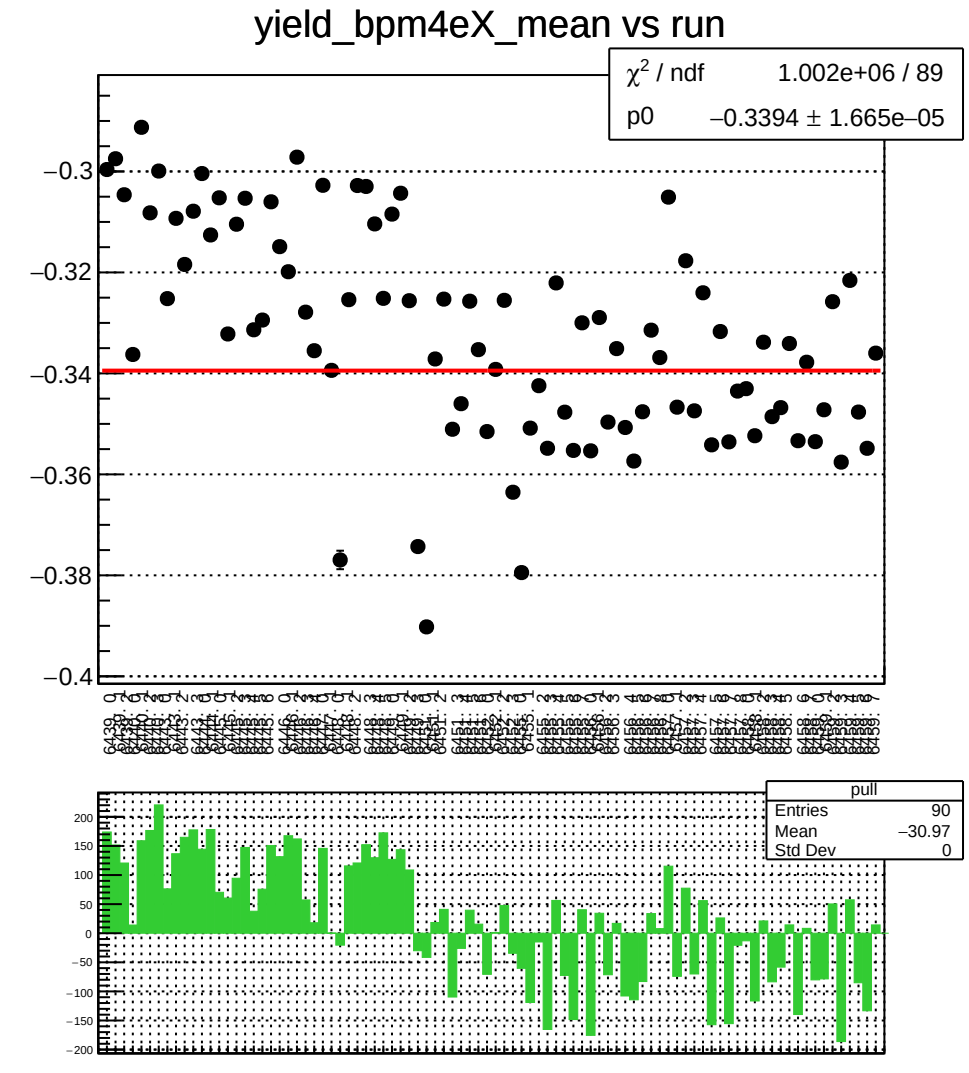

pull1D
Entries 90
Mean 4.146
Std Dev 3.354
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

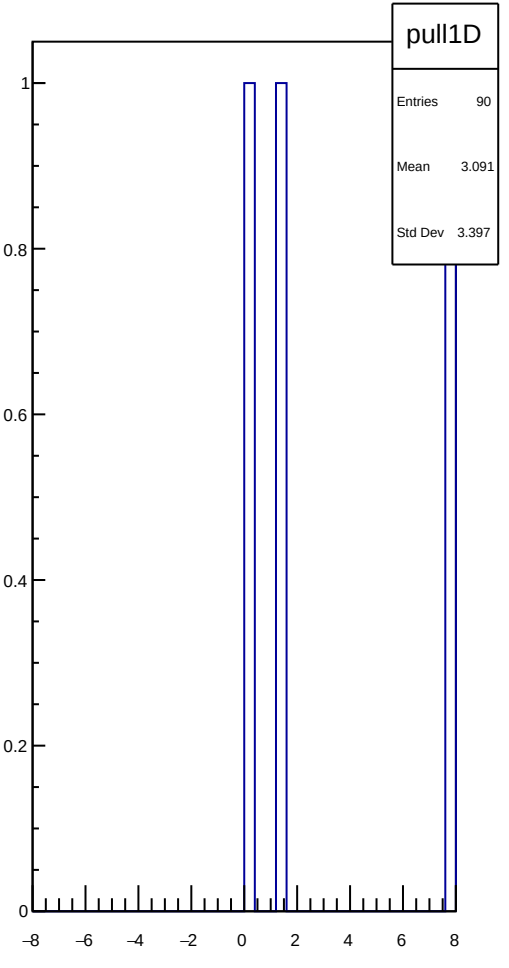

yield_bpm4aX_rms vs run
χ² / ndf 4.05e+05 / 89
p0 0.01533 ± 1.306e−05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

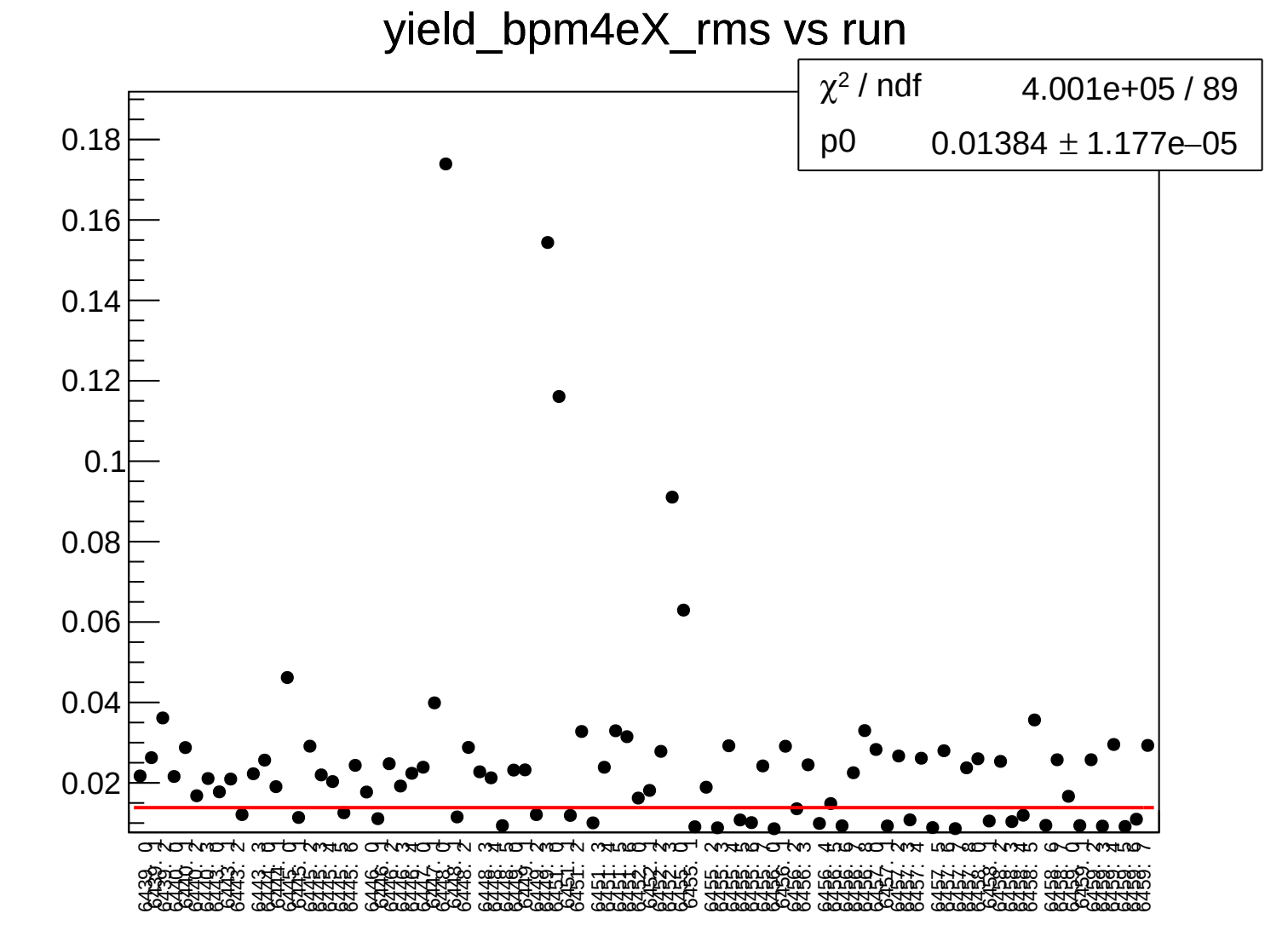

yield_bpm4aY_mean vs run
χ² / ndf 1.104e+05 / 89
p0 0.5242 ± 9.966e−06
0.56
0.55
0.54
0.53
0.52
0.51
0.5
0.49
0.48
pull
Entries 90
Mean 17.87
Std Dev 0
100
80
60
40
20
0
−20
−40
−60
−80

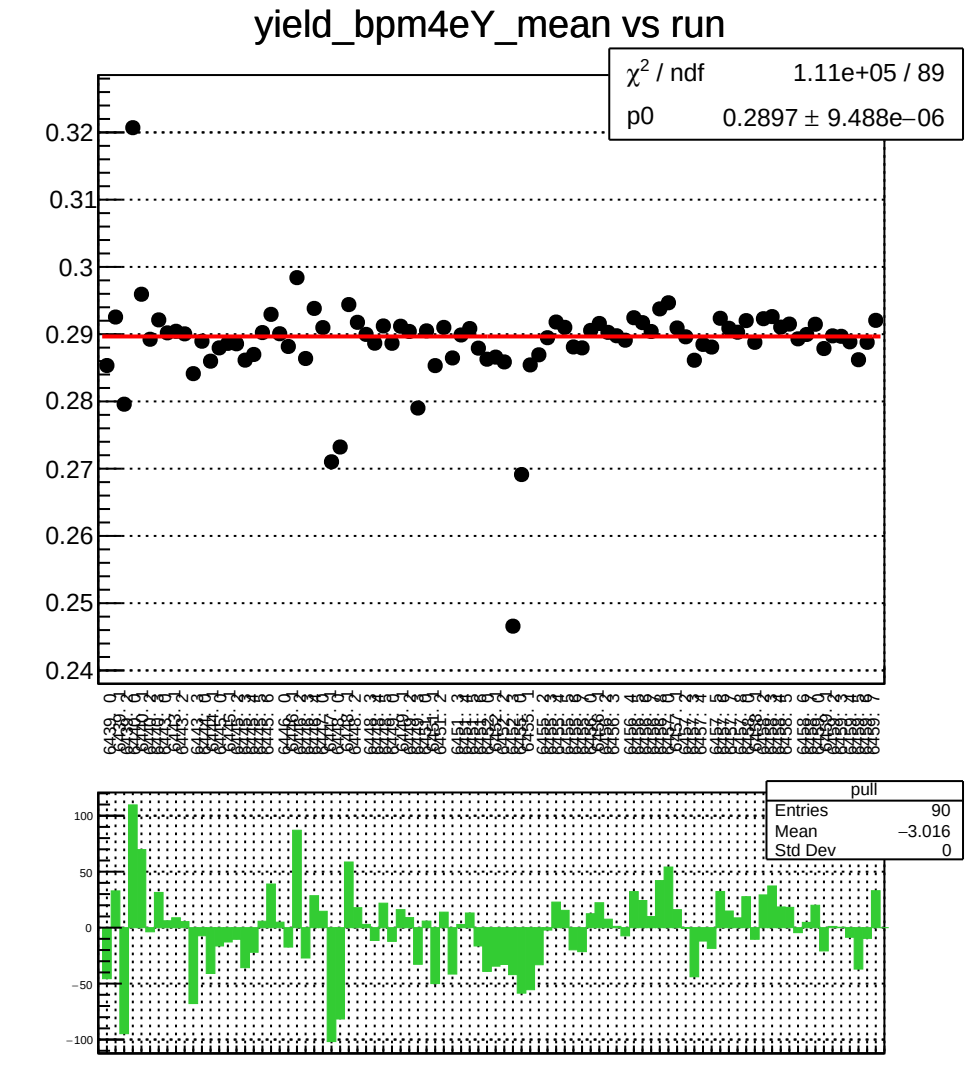

pull1D
Entries 90
Mean −0.4951
Std Dev 4.234
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

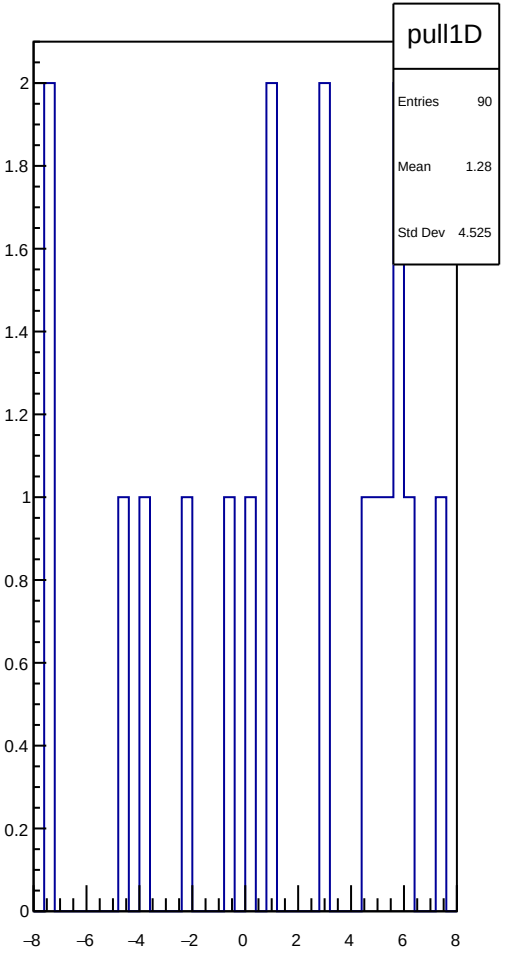

yield_bpm4aY_rms vs run
χ^2 / ndf 9.126e+04 / 89
p0 0.009163 ± 7.047e−06
0.1
0.08
0.06
0.04
0.02

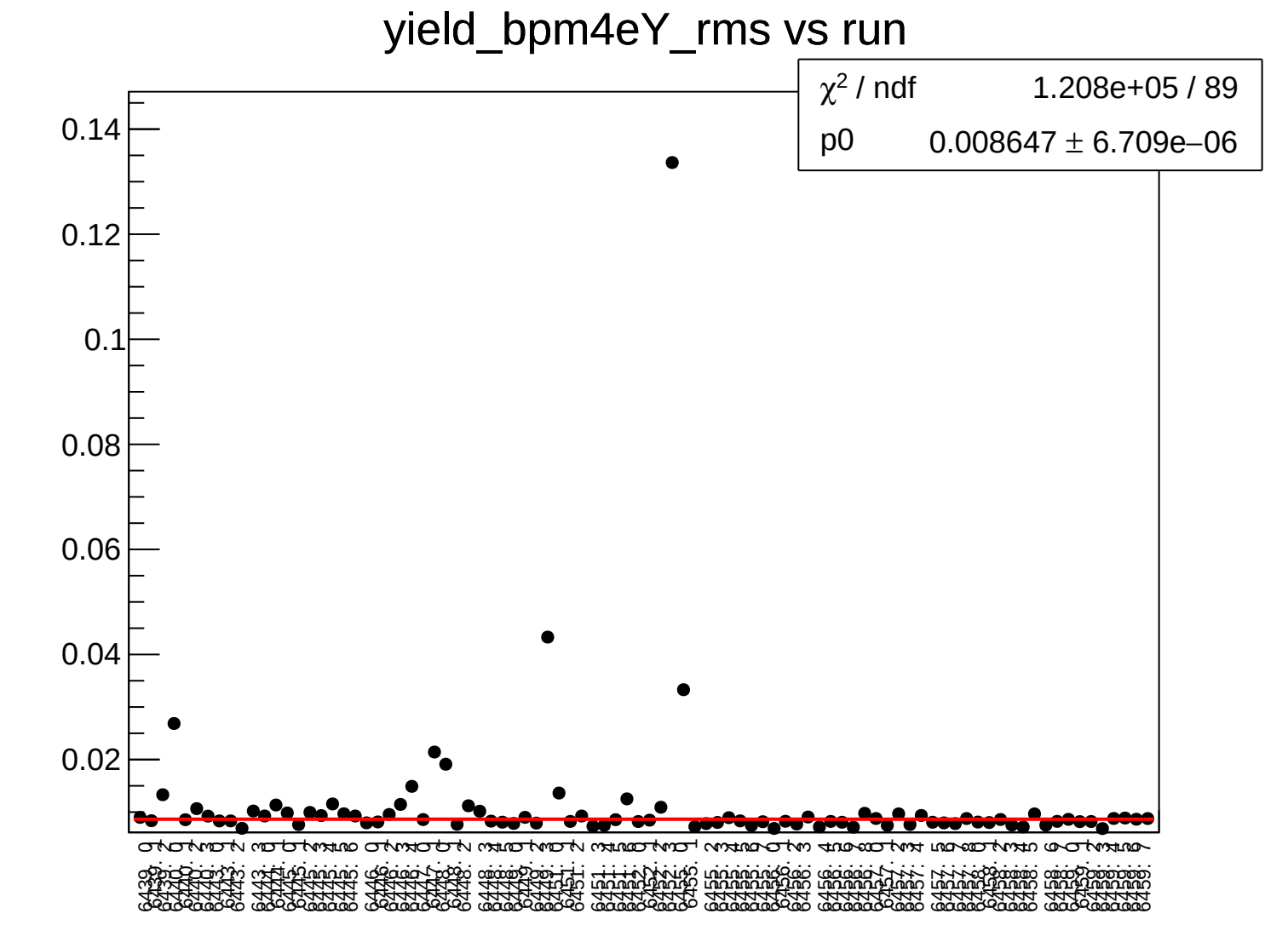

yield_bpm4eX_mean vs run
χ² / ndf 1.002e+06 / 89
p0 −0.3394 ± 1.665e−05
−0.3
−0.32
−0.34
−0.36
−0.38
−0.4
pull
Entries 90
Mean −30.97
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200

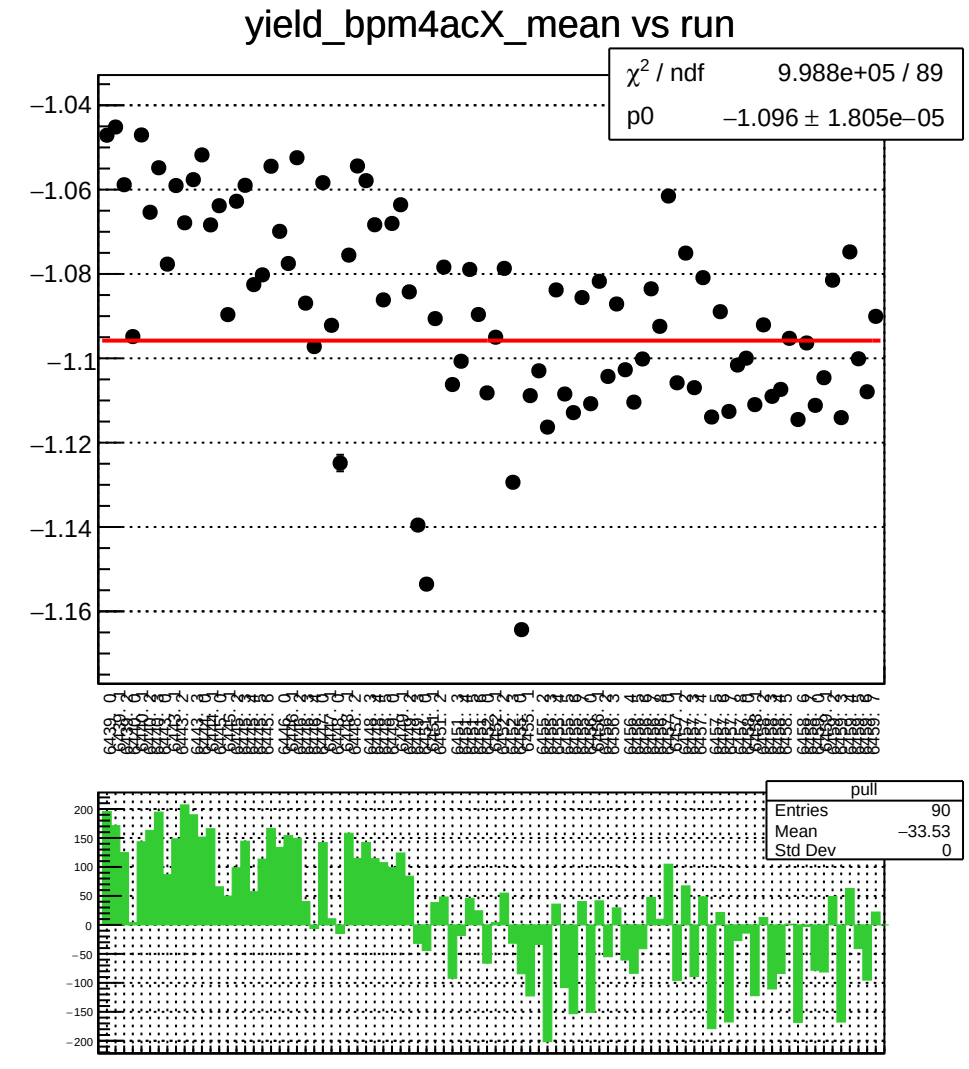

pull1D
Entries 90
Mean 3.091
Std Dev 3.397
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

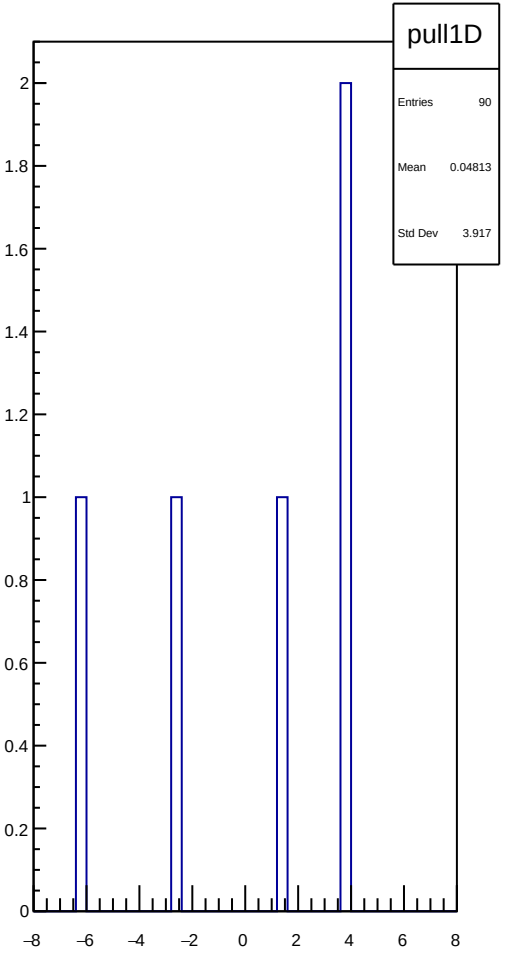

yield_bpm4eX_rms vs run
χ² / ndf 4.001e+05 / 89
p0 0.01384 ± 1.177e–05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

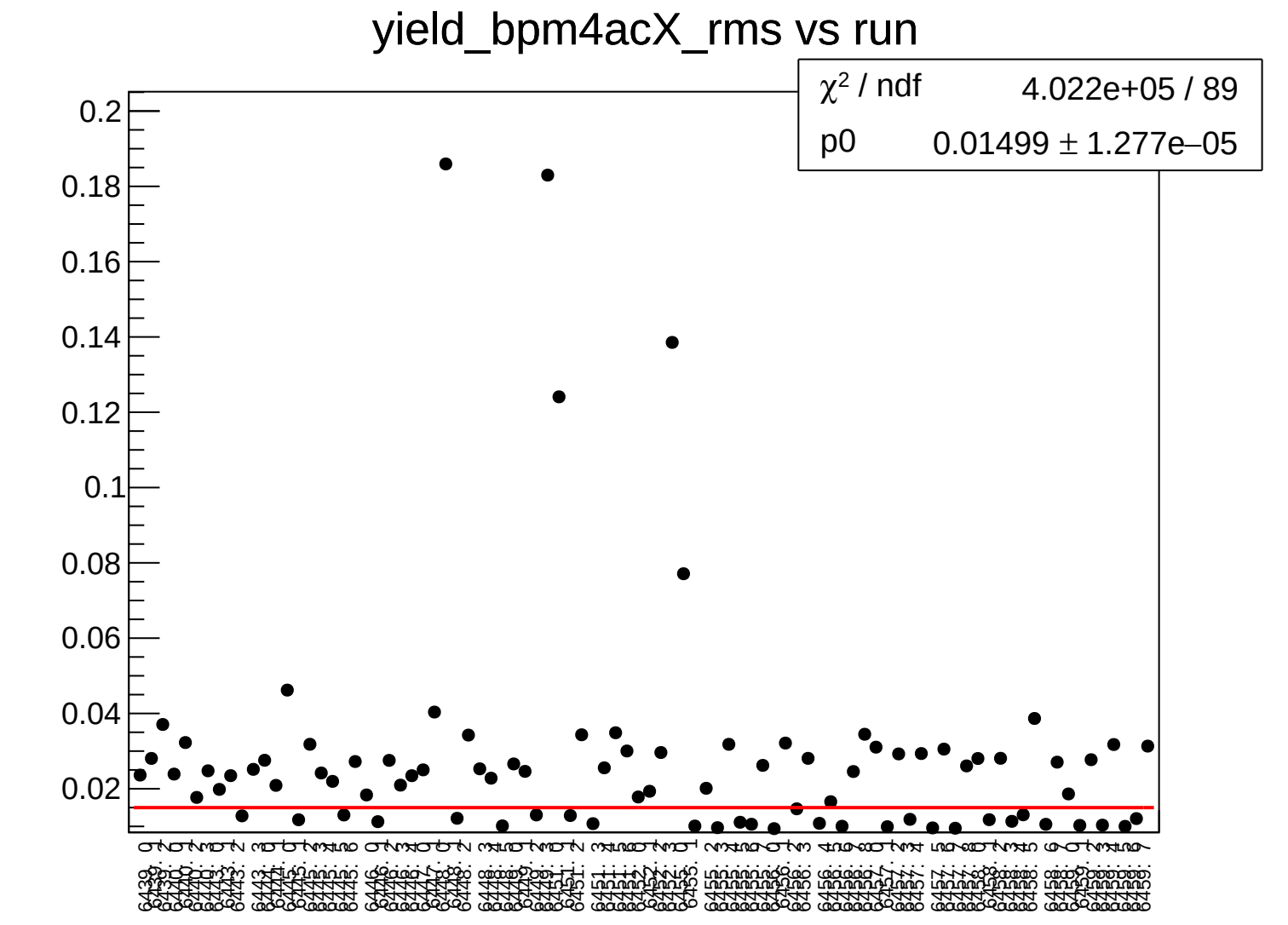

yield_bpm4eY_mean vs run
χ² / ndf 1.11e+05 / 89
p0 0.2897 ± 9.488e−06
0.32
0.31
0.3
0.29
0.28
0.27
0.26
0.25
0.24
pull
Entries 90
Mean −3.016
Std Dev 0
100
50
0
−50
−100

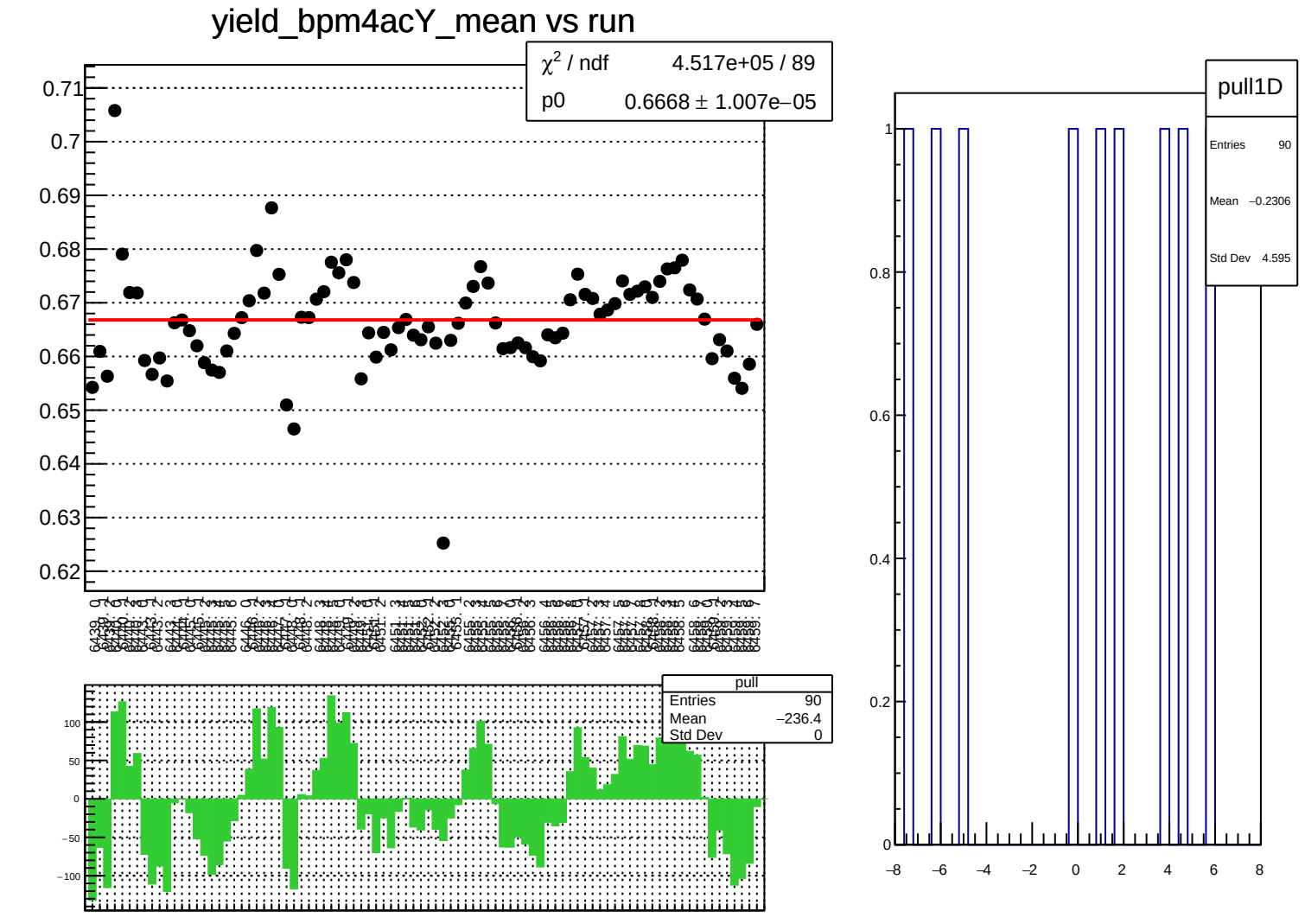

pull1D
Entries 90
Mean 1.28
Std Dev 4.525
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

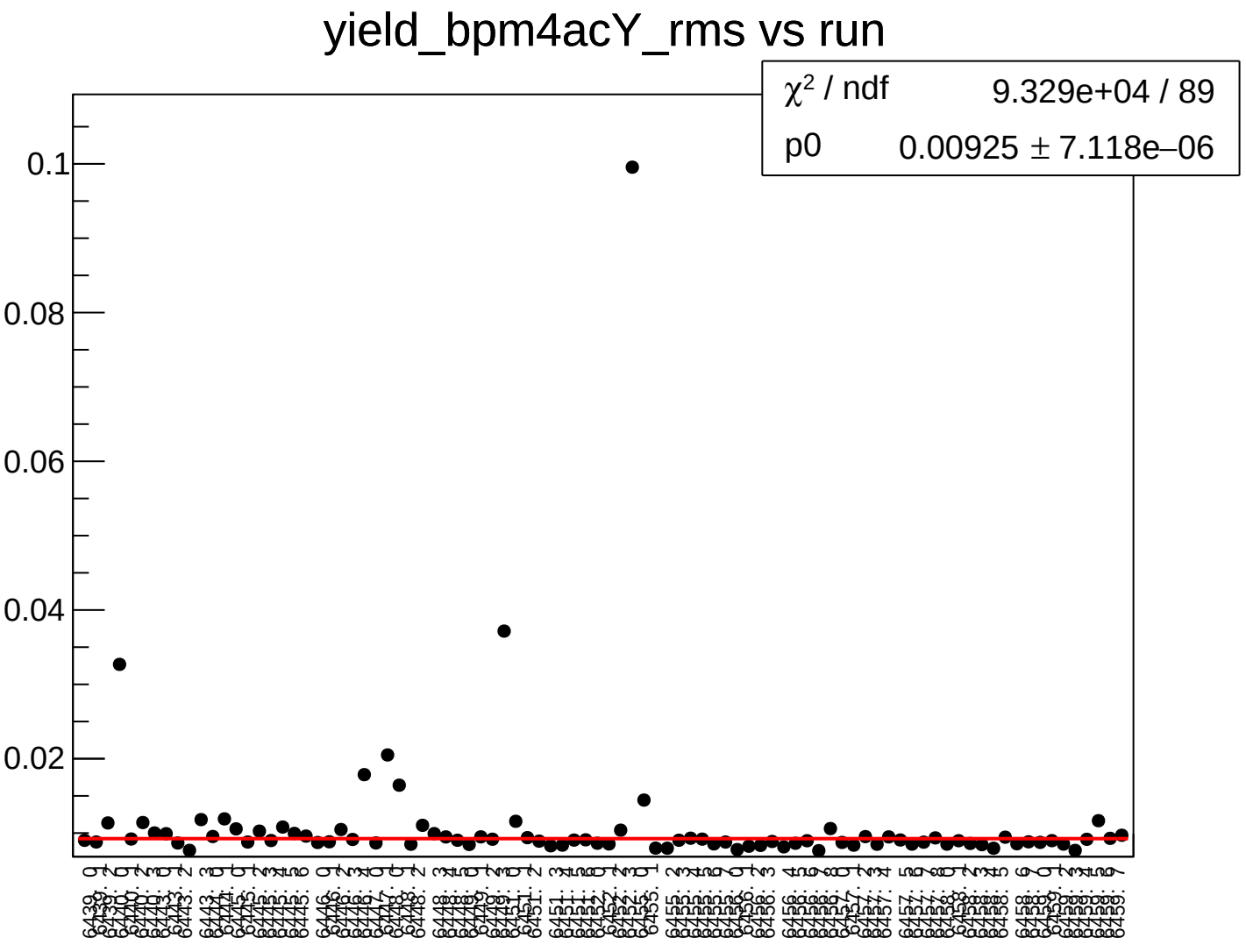

yield_bpm4eY_rms vs run
χ² / ndf 1.208e+05 / 89
p0 0.008647 ± 6.709e−06
0.14
0.12
0.1
0.08
0.06
0.04
0.02

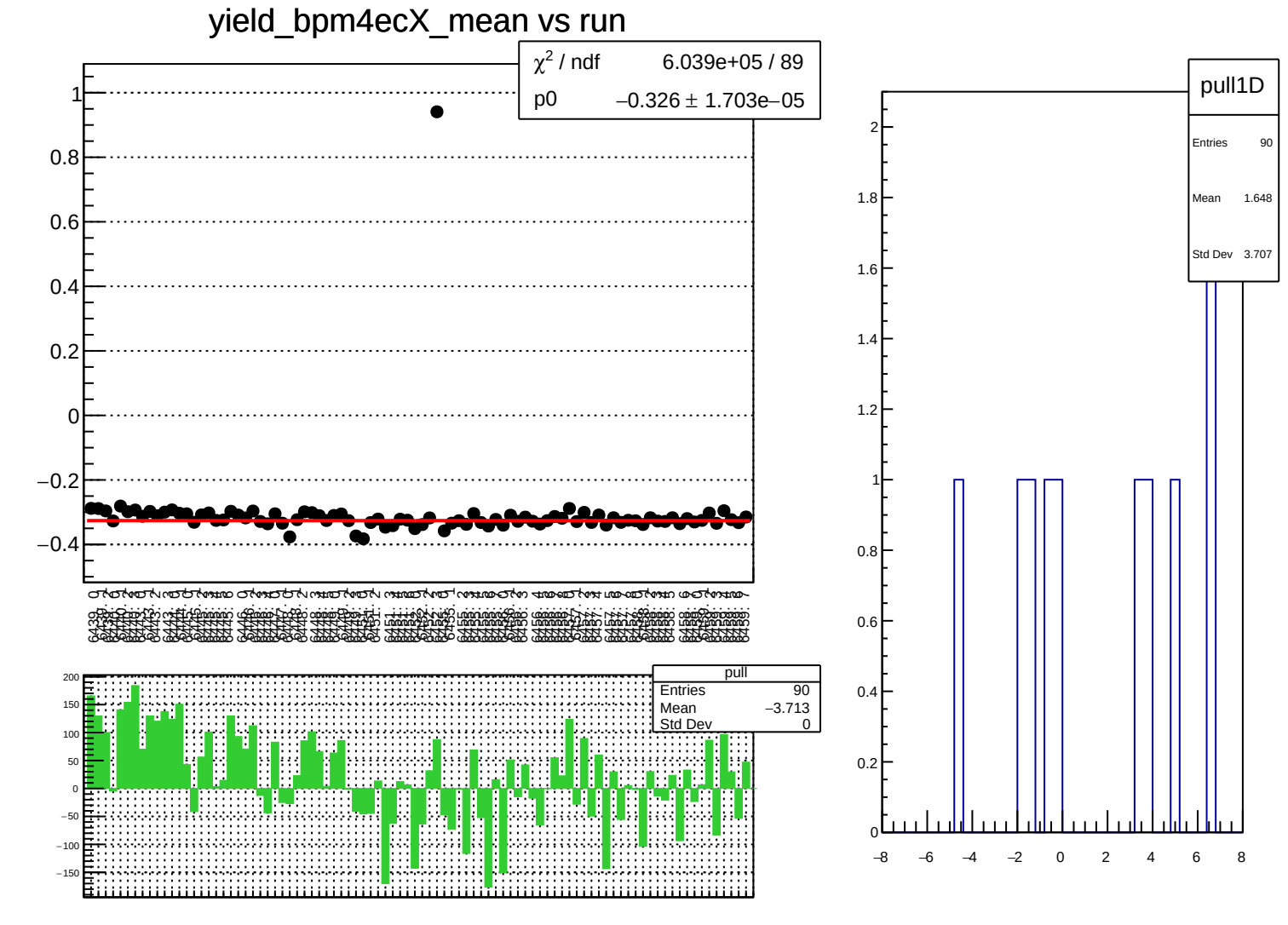

yield_bpm4acX_mean vs run
χ² / ndf 9.988e+05 / 89
p0 −1.096 ± 1.805e−05
−1.04
−1.06
−1.08
−1.1
−1.12
−1.14
−1.16
pull
Entries 90
Mean −33.53
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200

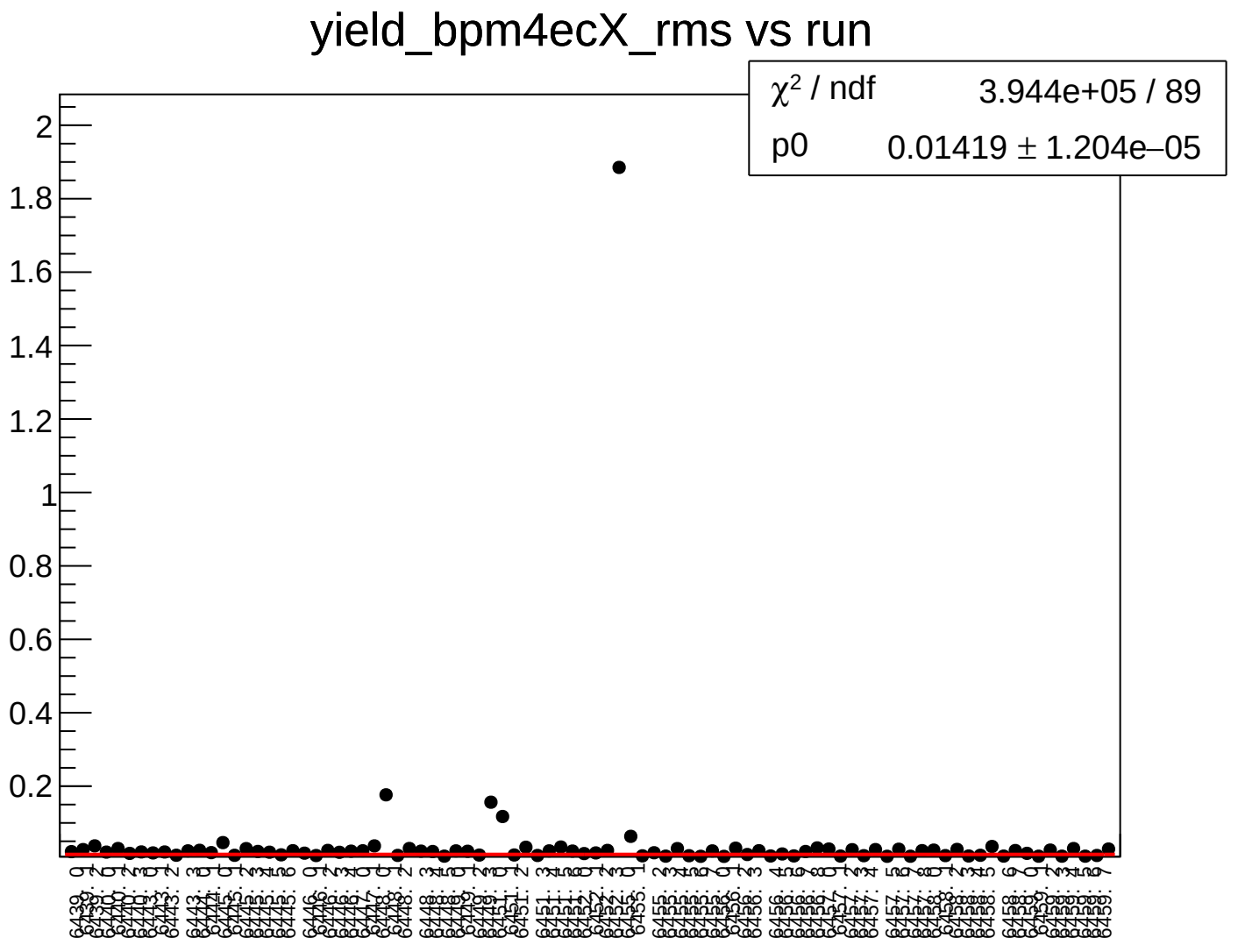

pull1D
Entries 90
Mean 0.04813
Std Dev 3.917
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

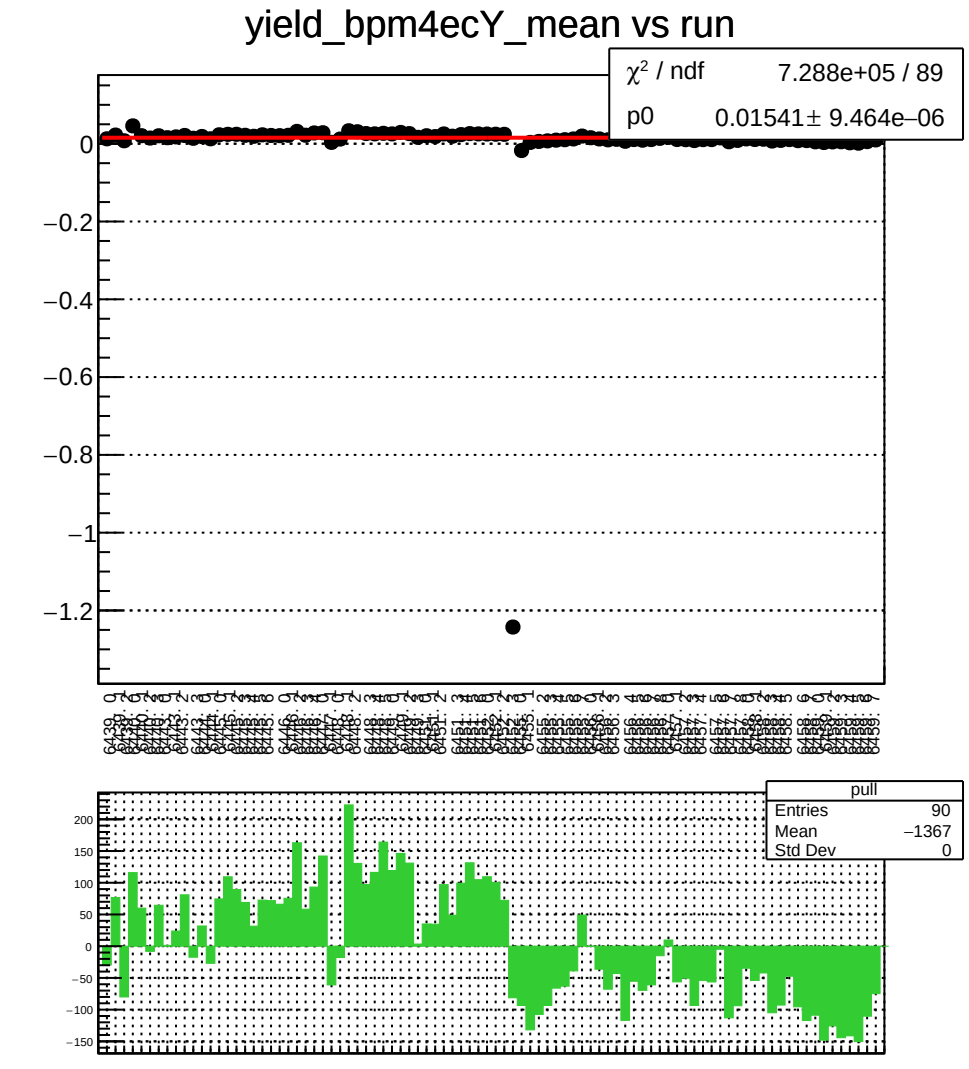

yield_bpm4acX_rms vs run
χ² / ndf 4.022e+05 / 89
p0 0.01499 ± 1.277e−05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

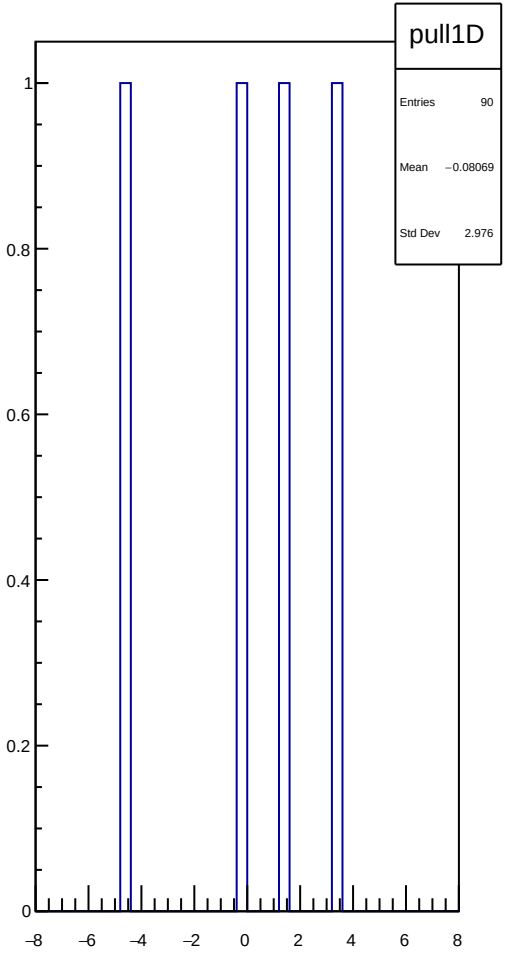

yield_bpm4acY_mean vs run
χ² / ndf 4.517e+05 / 89
p0 0.6668 ± 1.007e−05
0.71
0.7
0.69
0.68
0.67
0.66
0.65
0.64
0.63
0.62
pull
Entries 90
Mean −236.4
Std Dev 0
100
50
0
−50
−100
pull1D
Entries 90
Mean −0.2306
Std Dev 4.595
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

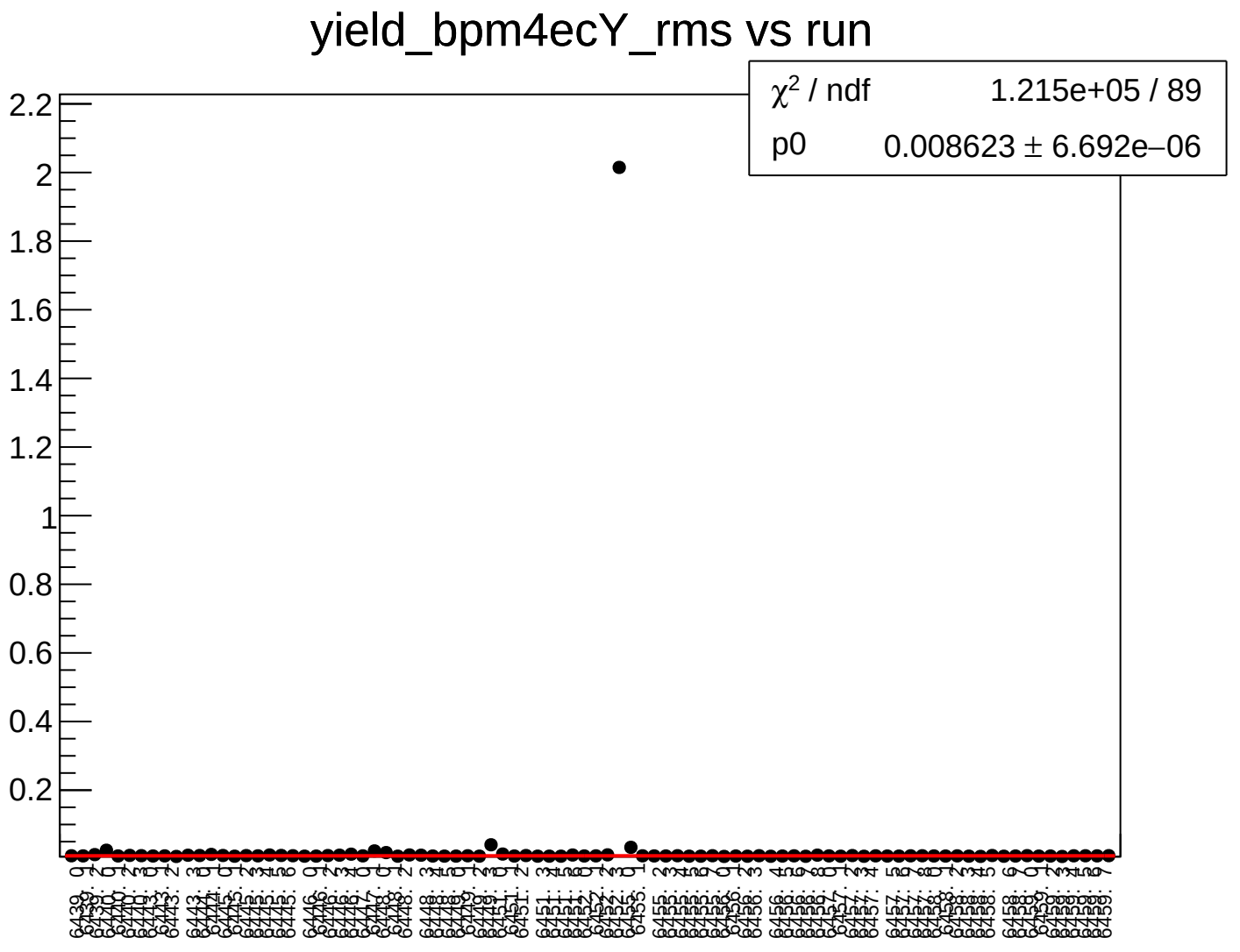

yield_bpm4acY_rms vs run
χ² / ndf 9.329e+04 / 89
p0 0.00925 ± 7.118e–06
0.1
0.08
0.06
0.04
0.02

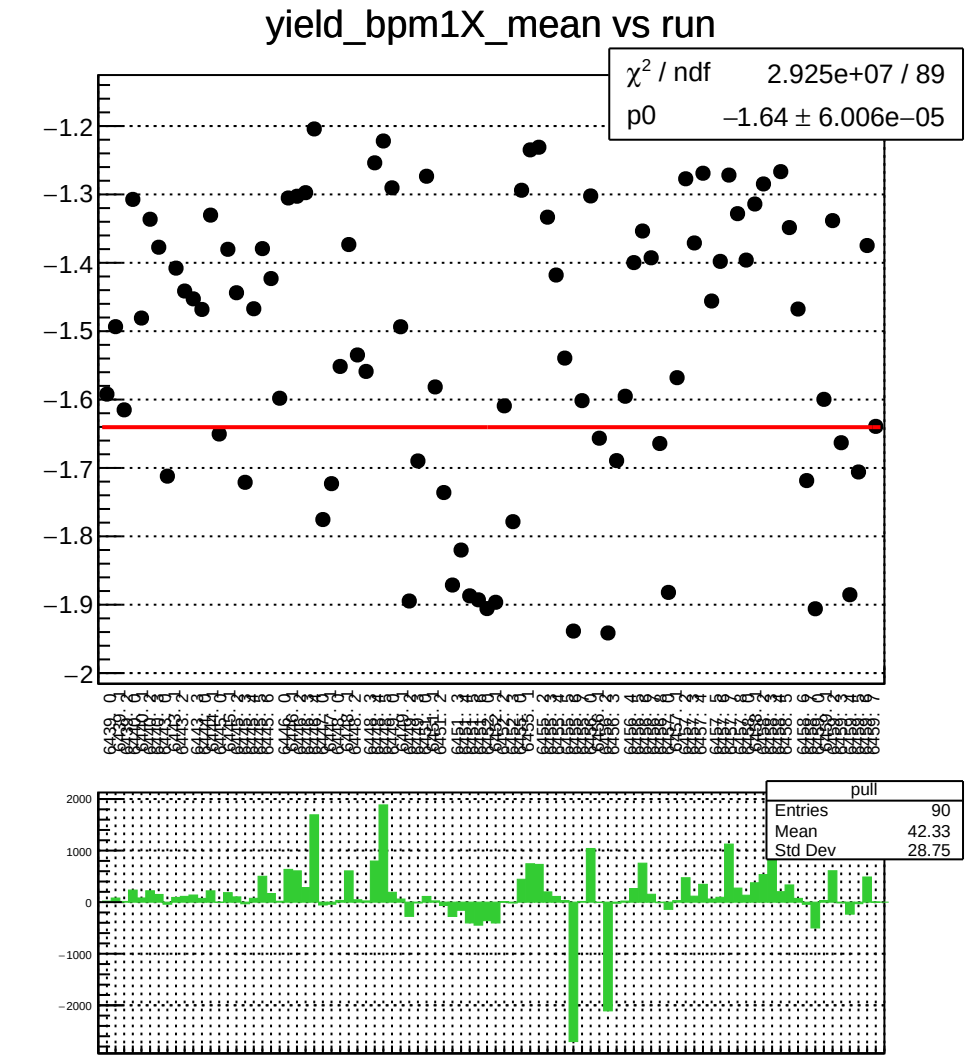

yield_bpm4ecX_mean vs run
χ² / ndf 6.039e+05 / 89
p0 −0.326 ± 1.703e−05
pull
Entries 90
Mean −3.713
Std Dev 0
pull1D
Entries 90
Mean 1.648
Std Dev 3.707

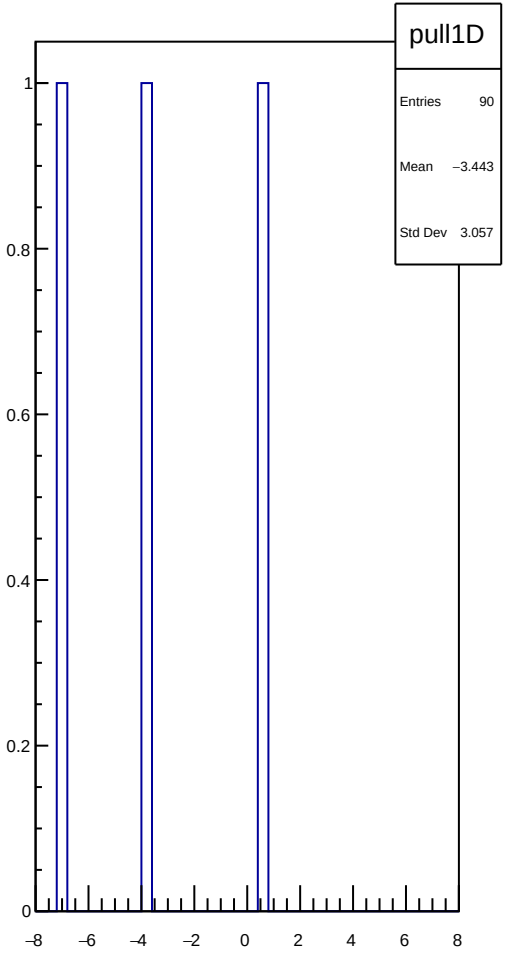

yield_bpm4ecX_rms vs run
χ² / ndf 3.944e+05 / 89
p0 0.01419 ± 1.204e−05
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

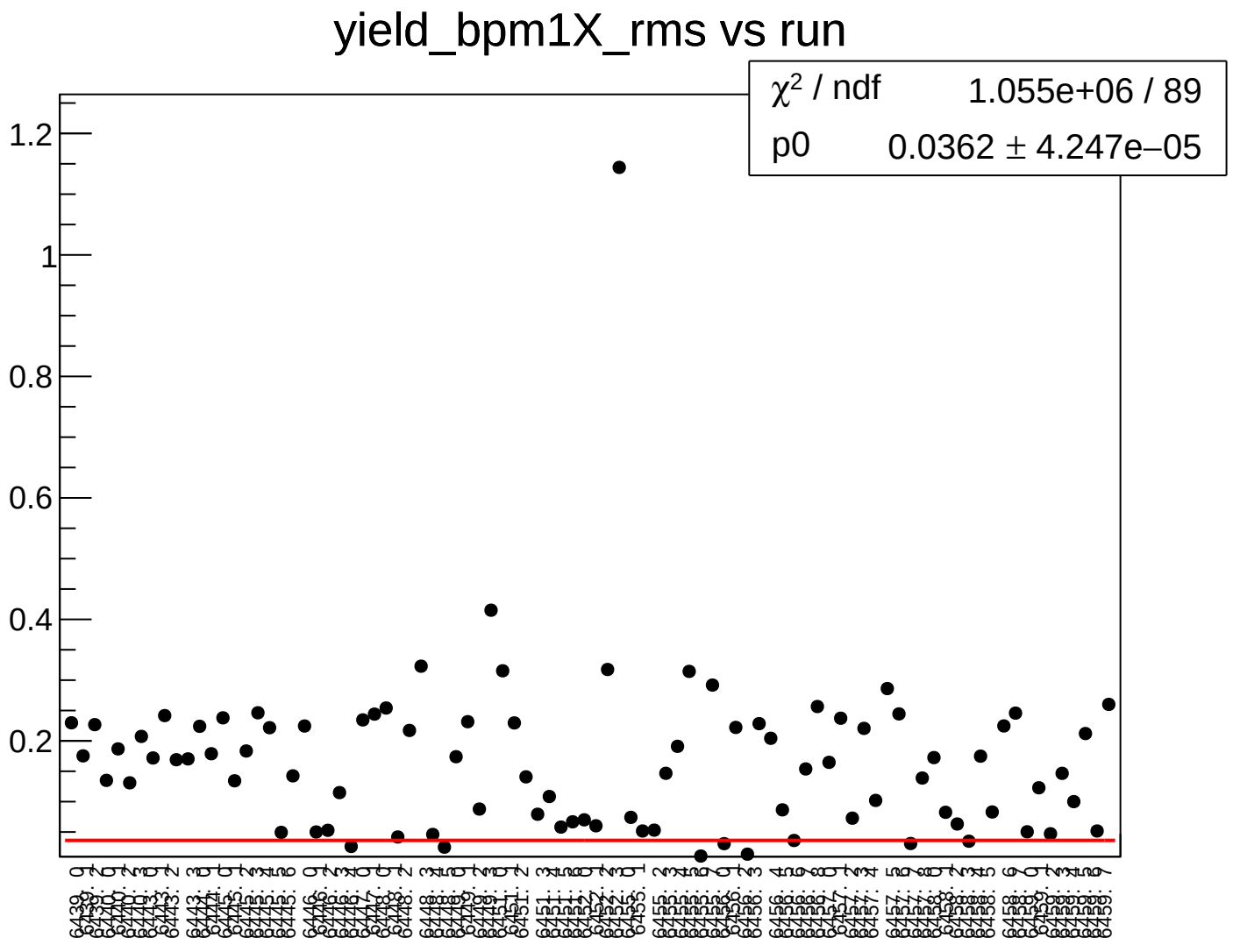

yield_bpm4ecY_mean vs run
χ² / ndf 7.288e+05 / 89
p0 0.01541± 9.464e−06
pull
Entries 90
Mean −1367
Std Dev 0

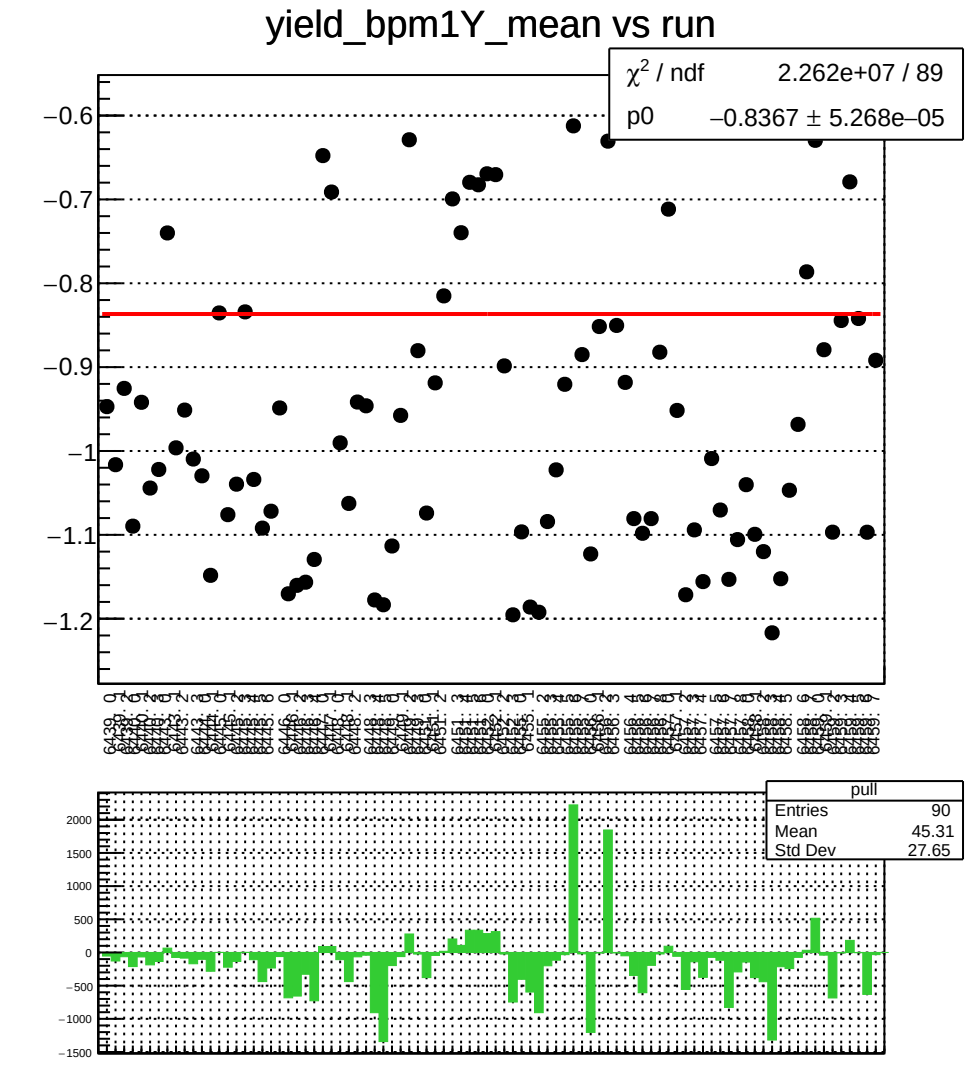

pull1D
Entries 90
Mean −0.08069
Std Dev 2.976

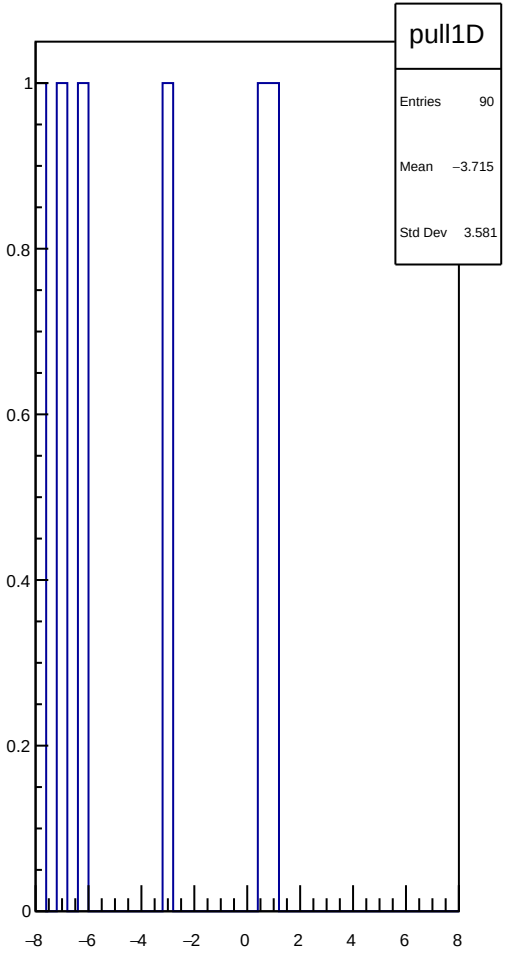

yield_bpm4ecY_rms vs run
χ² / ndf 1.215e+05 / 89
p0 0.008623 ± 6.692e−06
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

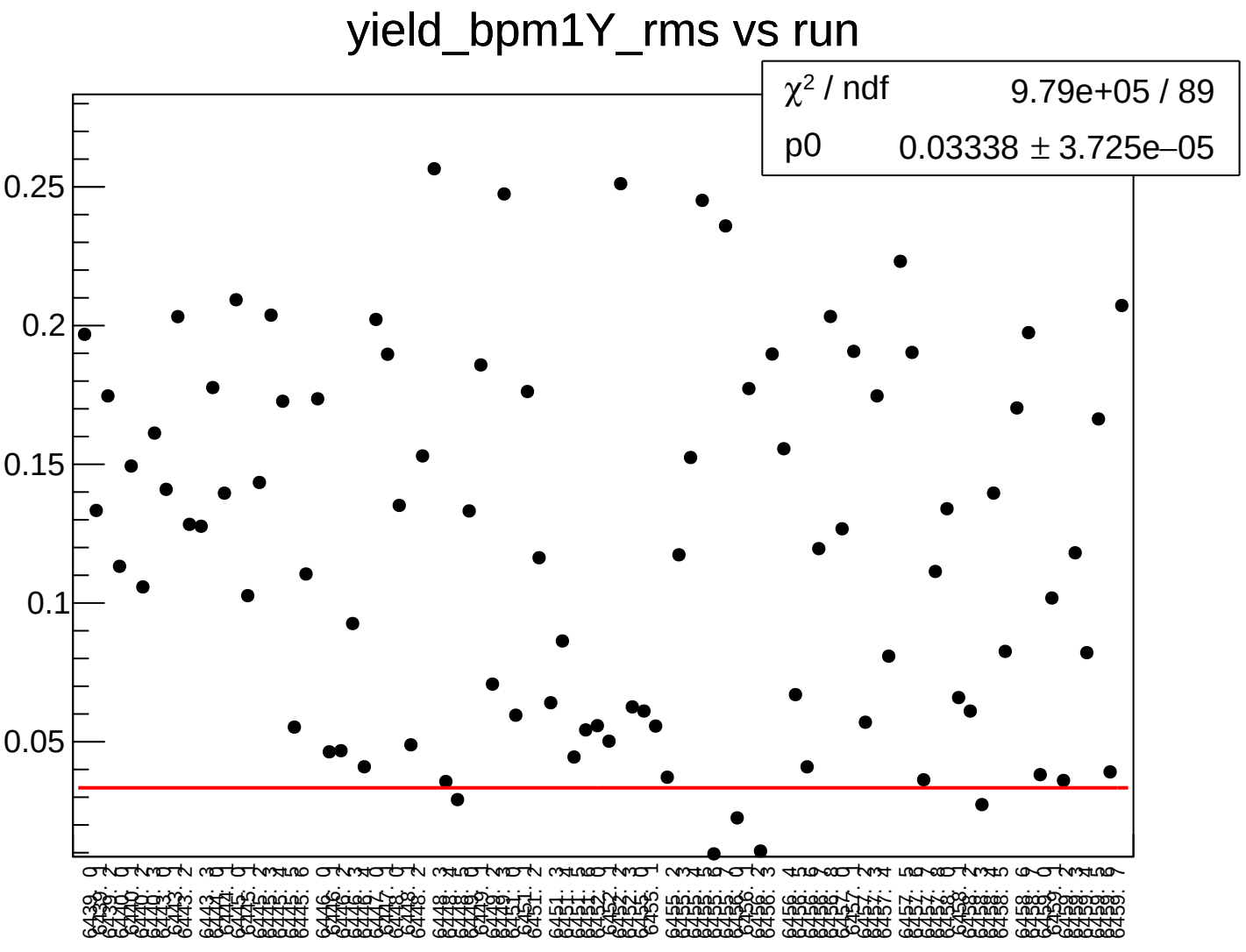

yield_bpm1X_mean vs run
χ² / ndf 2.925e+07 / 89
p0 −1.64 ± 6.006e−05
pull
Entries 90
Mean 42.33
Std Dev 28.75

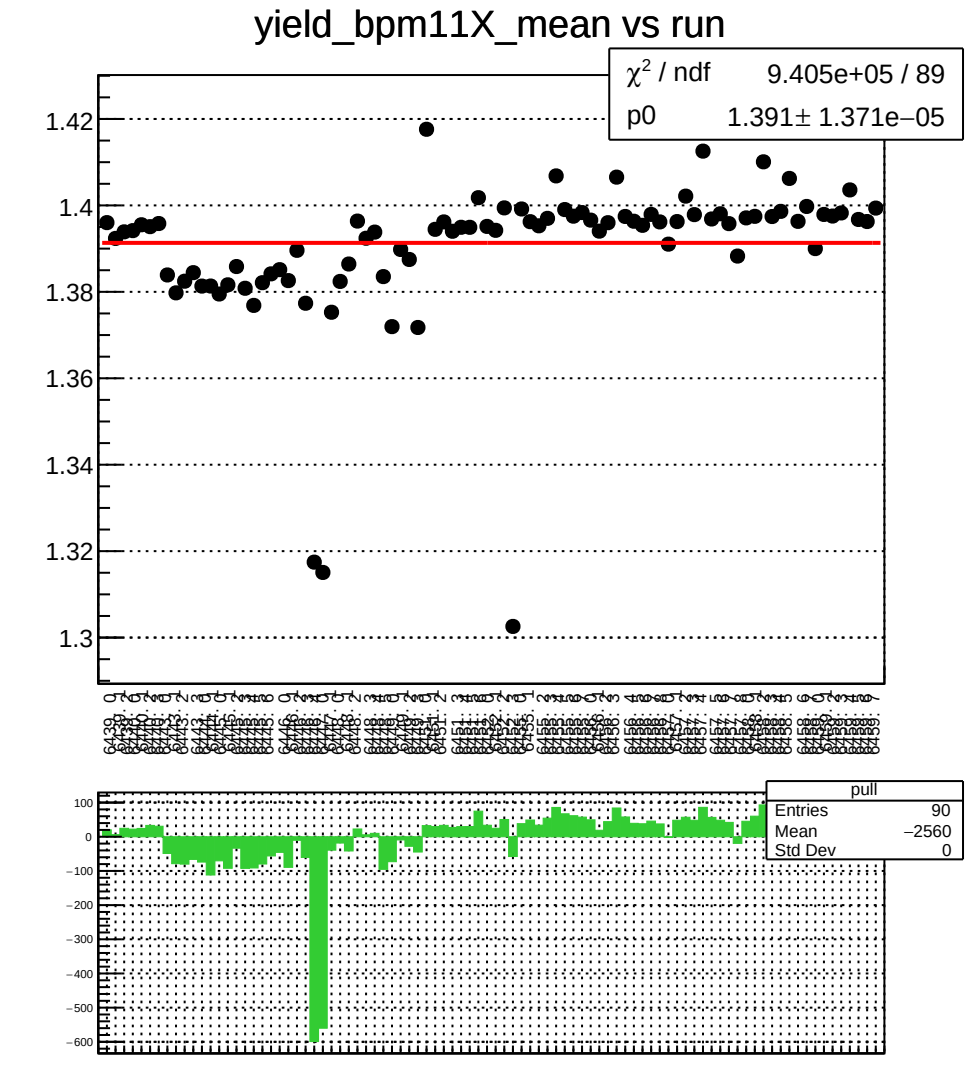

pull1D
Entries 90
Mean −3.443
Std Dev 3.057

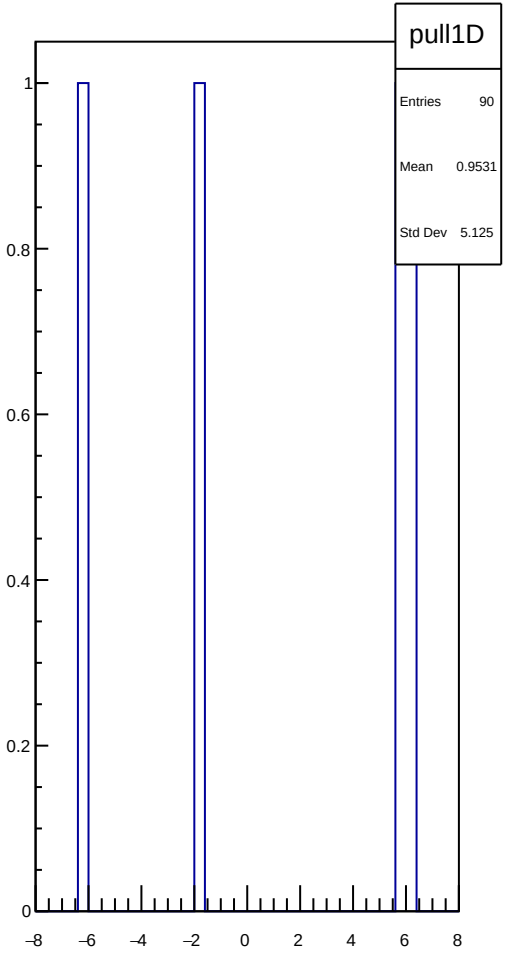

yield_bpm1X_rms vs run
χ² / ndf 1.055e+06 / 89
p0 0.0362 ± 4.247e−05
1.2
1
0.8
0.6
0.4
0.2

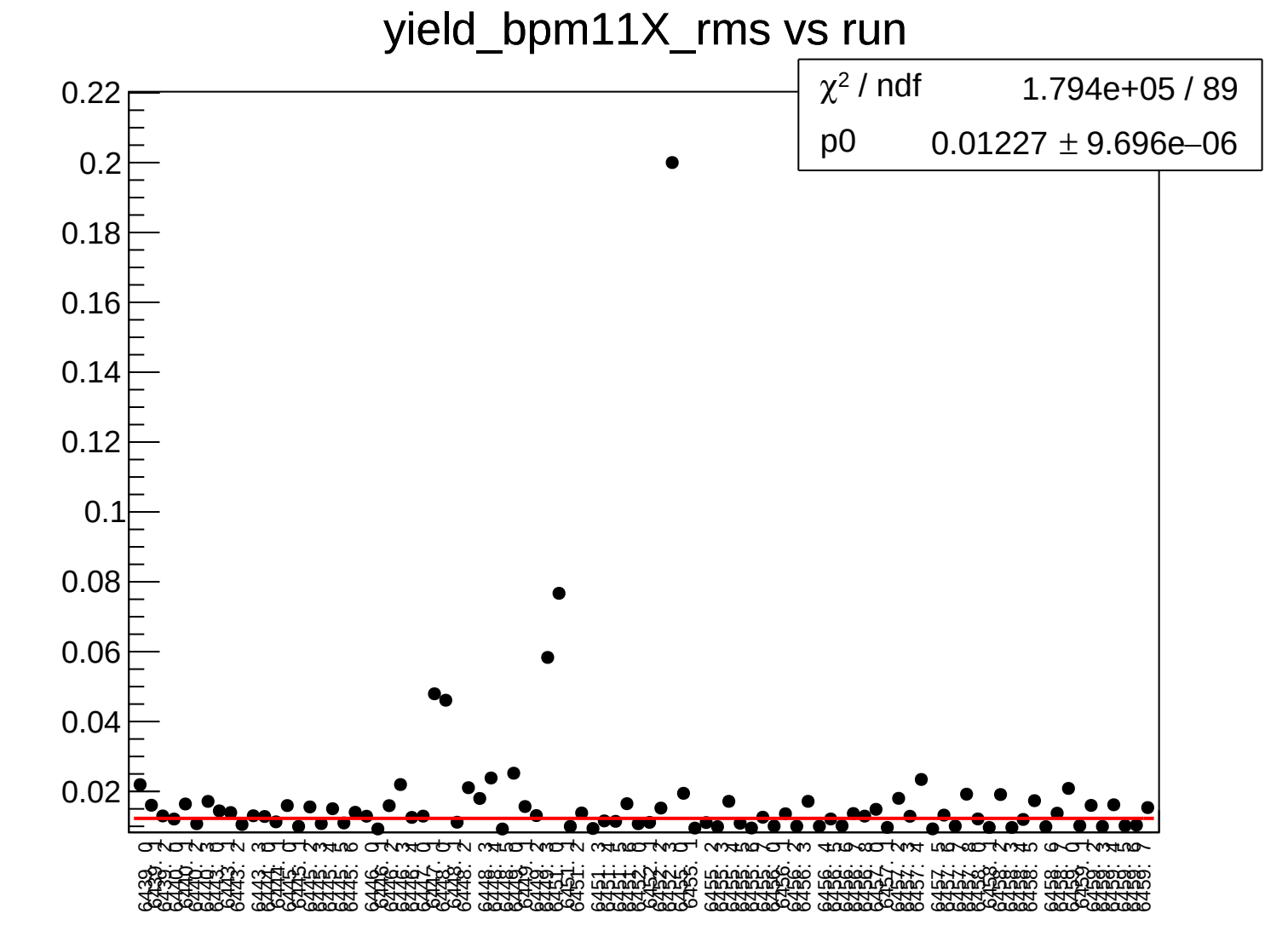

yield_bpm1Y_mean vs run
χ² / ndf 2.262e+07 / 89
p0 −0.8367 ± 5.268e−05
−0.6
−0.7
−0.8
−0.9
−1
−1.1
−1.2
pull
Entries 90
Mean 45.31
Std Dev 27.65
2000
1500
1000
500
0
−500
−1000
−1500

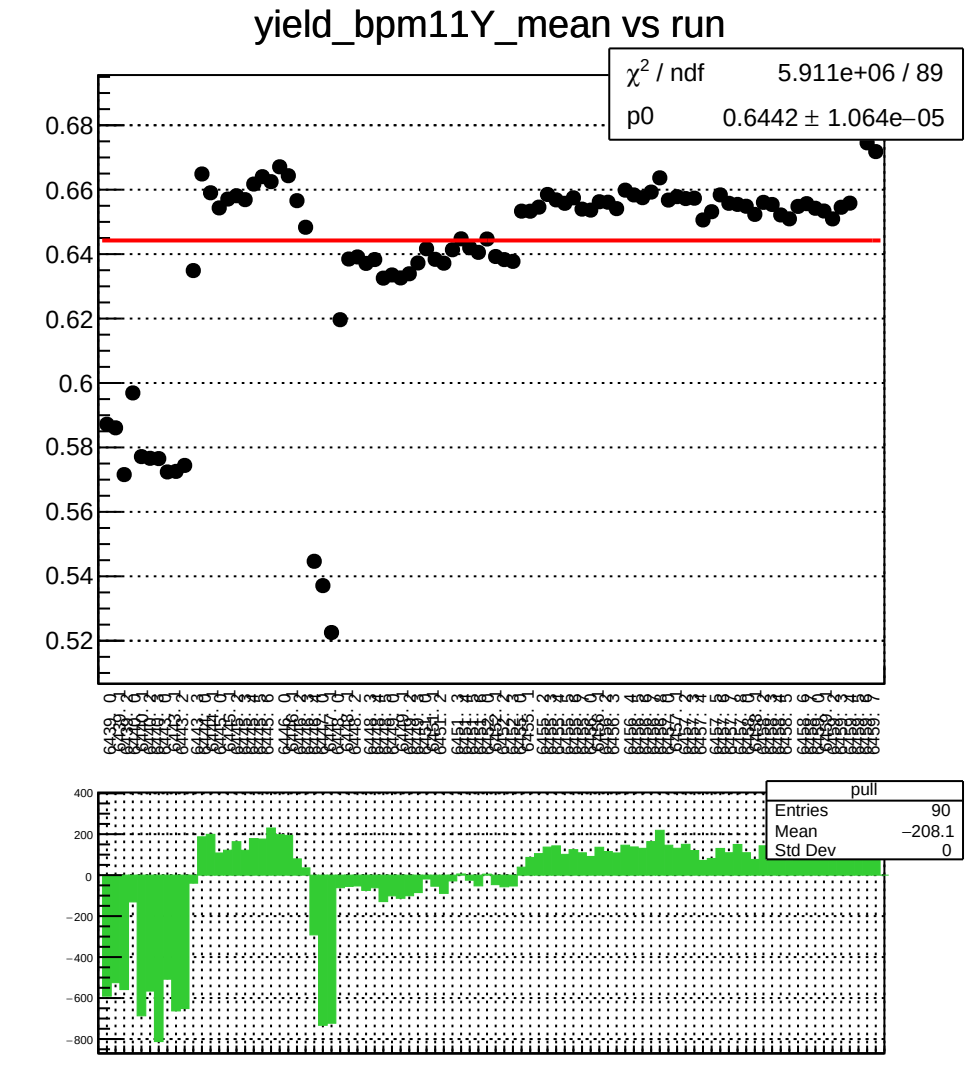

pull1D
Entries 90
Mean −3.715
Std Dev 3.581
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

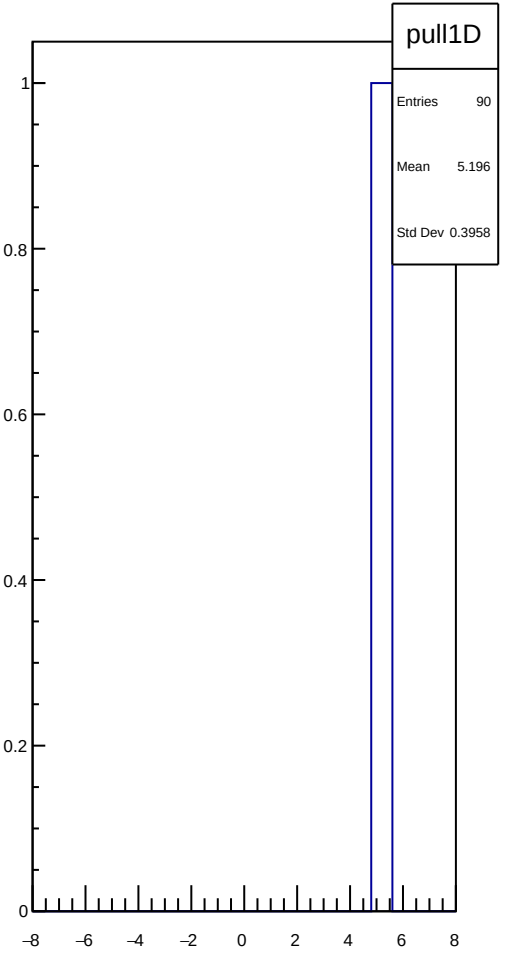

yield_bpm1Y_rms vs run
χ^2 / ndf 9.79e+05 / 89
p0 0.03338 ± 3.725e−05
0.25
0.2
0.15
0.1
0.05

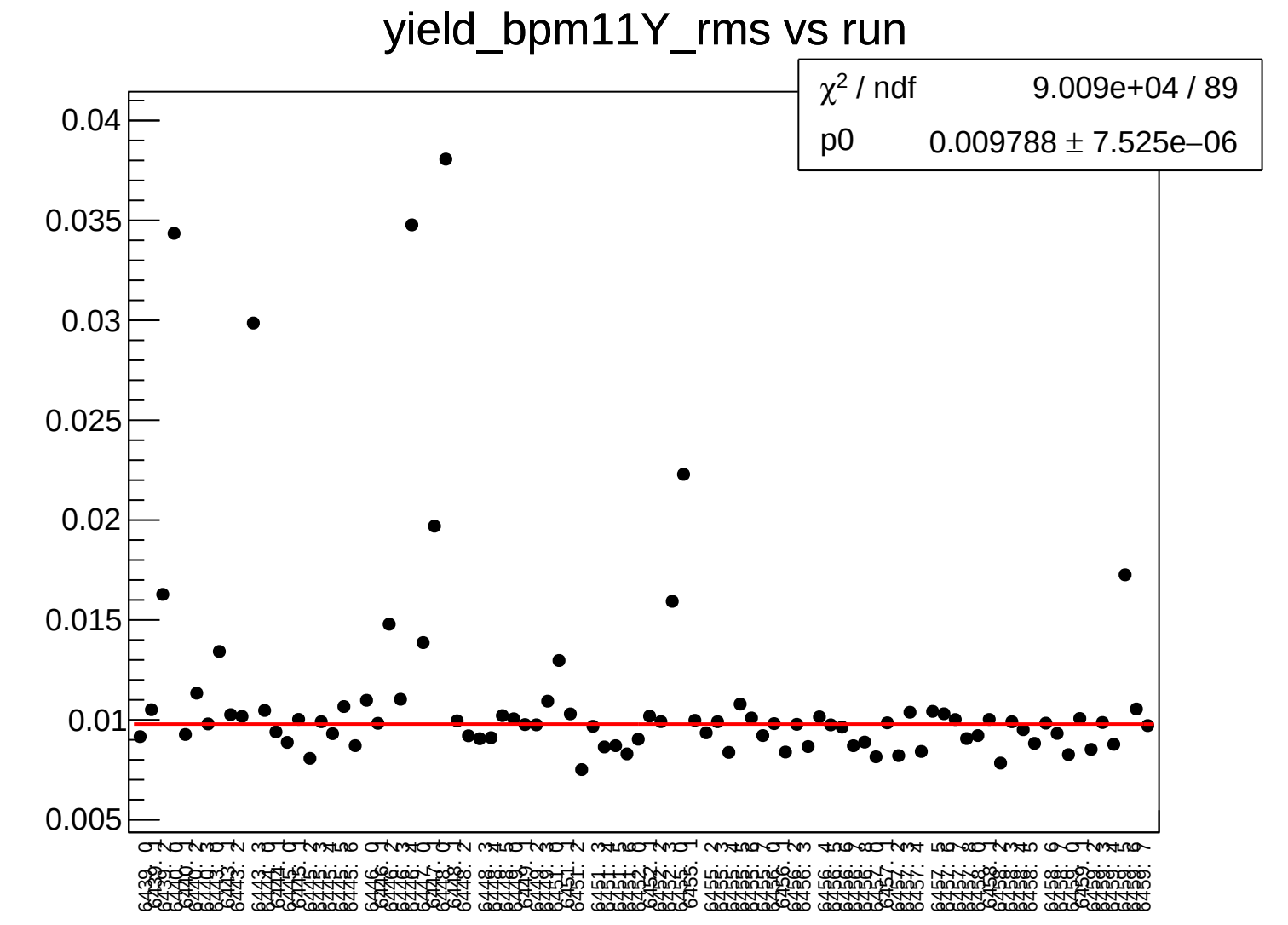

yield_bpm11X_mean vs run
χ² / ndf 9.405e+05 / 89
p0 1.391± 1.371e−05
1.42
1.4
1.38
1.36
1.34
1.32
1.3
pull
Entries 90
Mean −2560
Std Dev 0
100
0
−100
−200
−300
−400
−500
−600

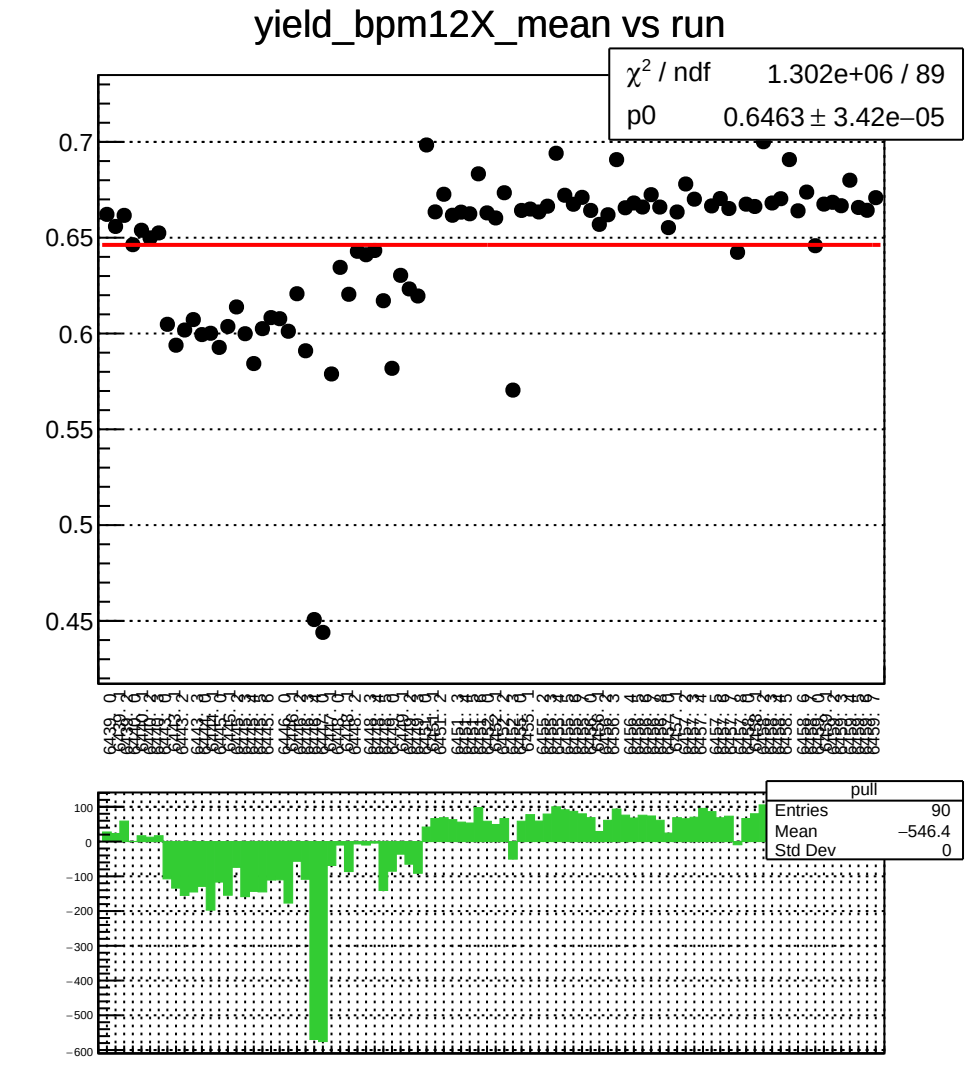

pull1D
Entries 90
Mean 0.9531
Std Dev 5.125
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

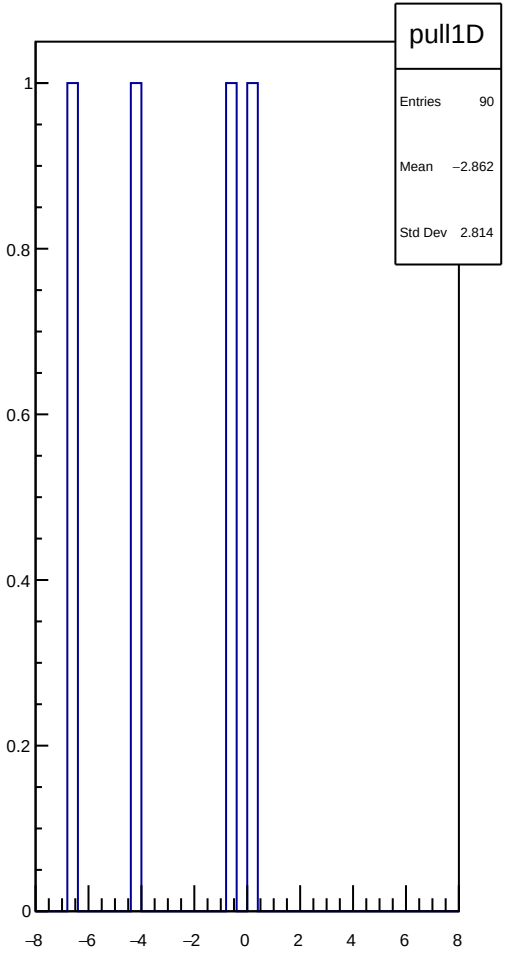

yield_bpm11X_rms vs run
χ² / ndf 1.794e+05 / 89
p0 0.01227 ± 9.696e−06
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

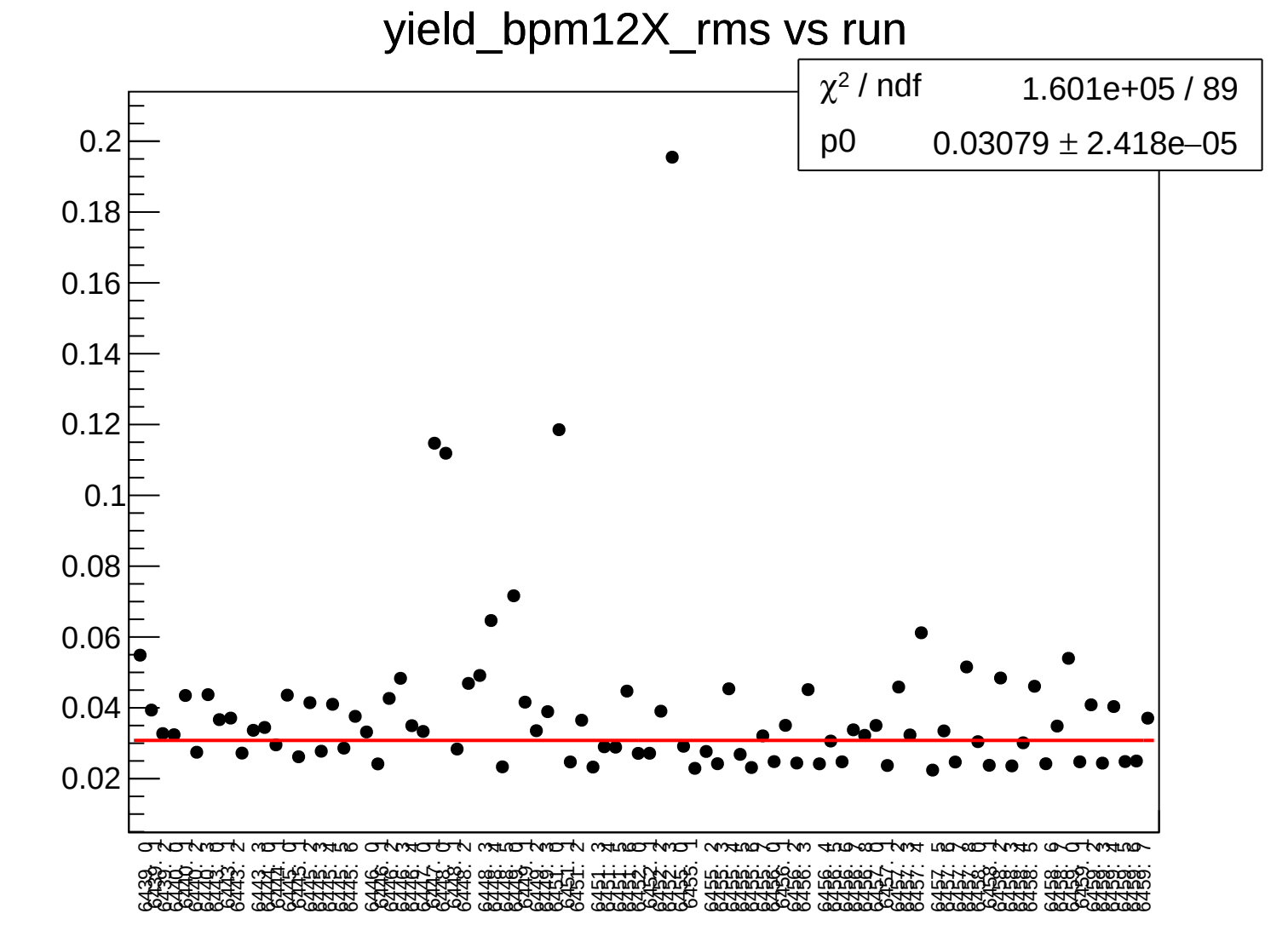

yield_bpm11Y_mean vs run
χ² / ndf 5.911e+06 / 89
p0 0.6442 ± 1.064e−05
pull
Entries 90
Mean −208.1
Std Dev 0

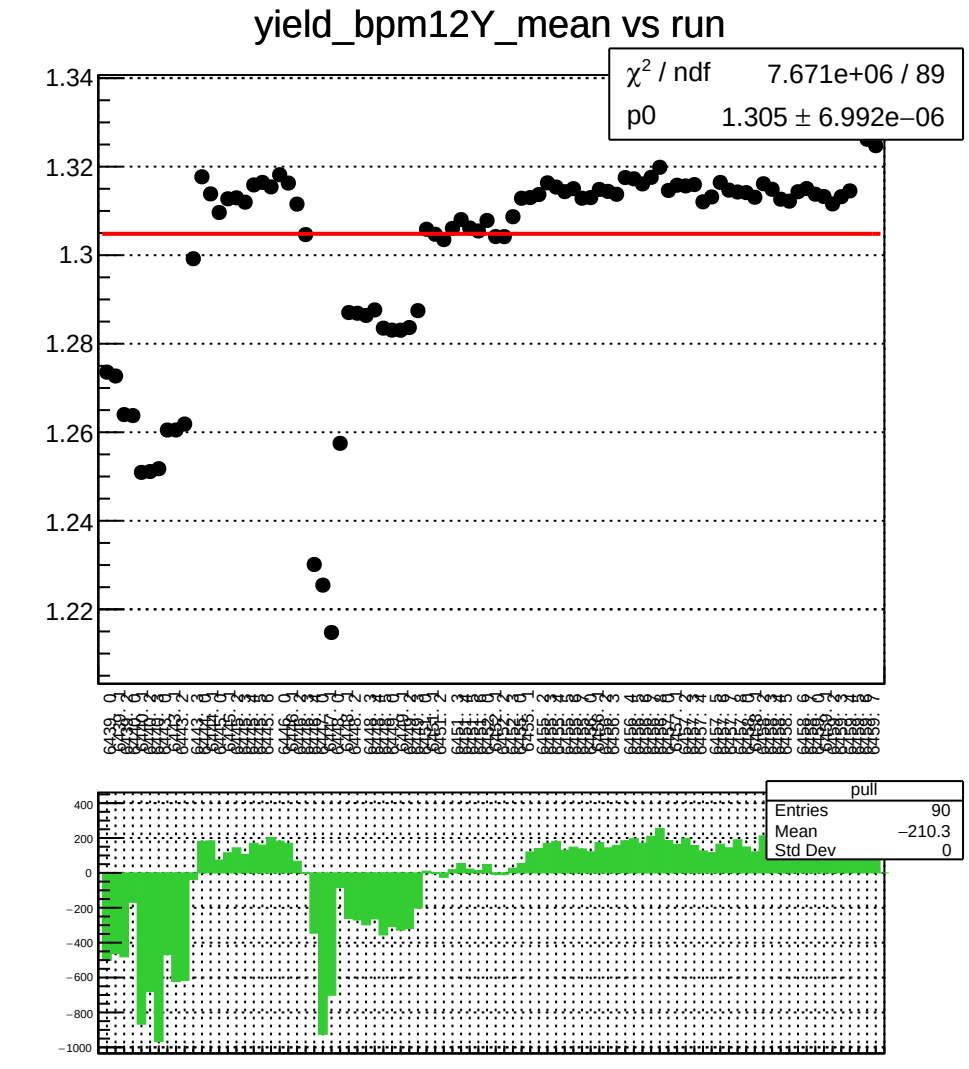

pull1D
Entries 90
Mean 5.196
Std Dev 0.3958

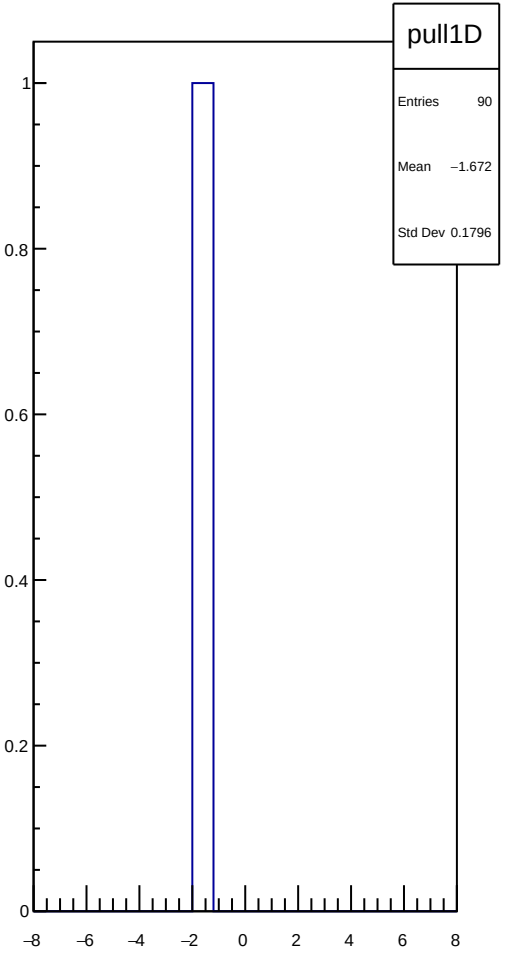

yield_bpm11Y_rms vs run
χ^2 / ndf 9.009e+04 / 89
p0 0.009788 ± 7.525e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

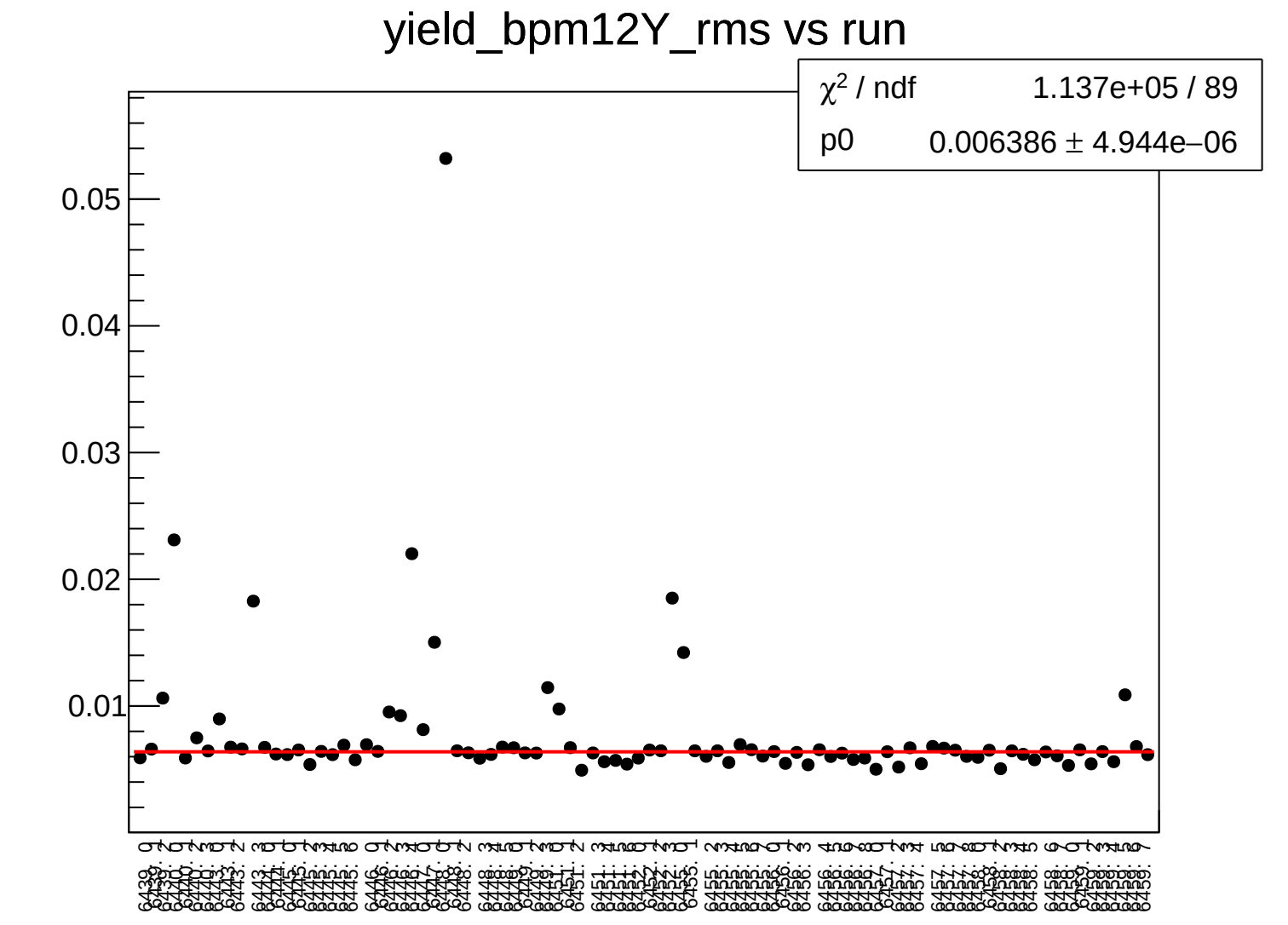

yield_bpm12X_mean vs run
χ² / ndf 1.302e+06 / 89
p0 0.6463 ± 3.42e−05
0.7
0.65
0.6
0.55
0.5
0.45
pull
Entries 90
Mean −546.4
Std Dev 0
100
0
−100
−200
−300
−400
−500
−600

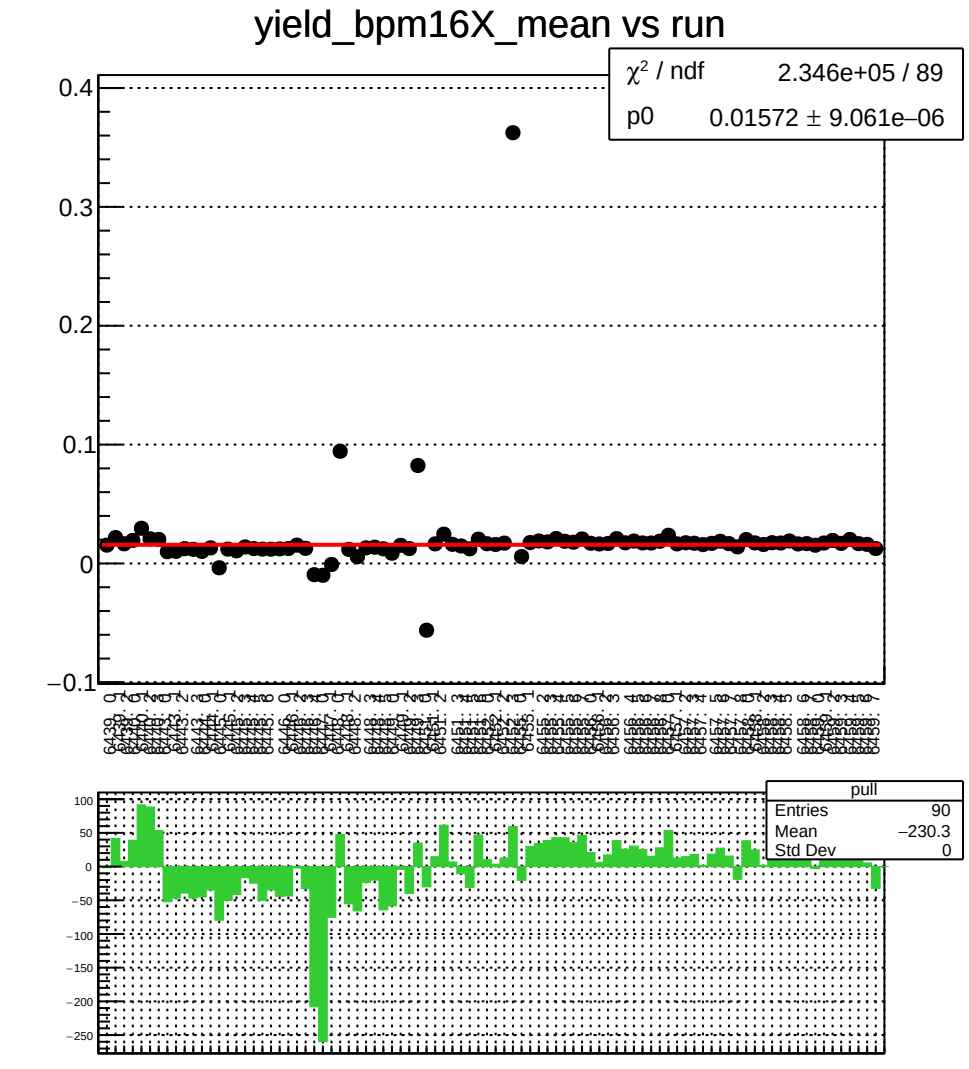

pull1D
Entries 90
Mean −2.862
Std Dev 2.814
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

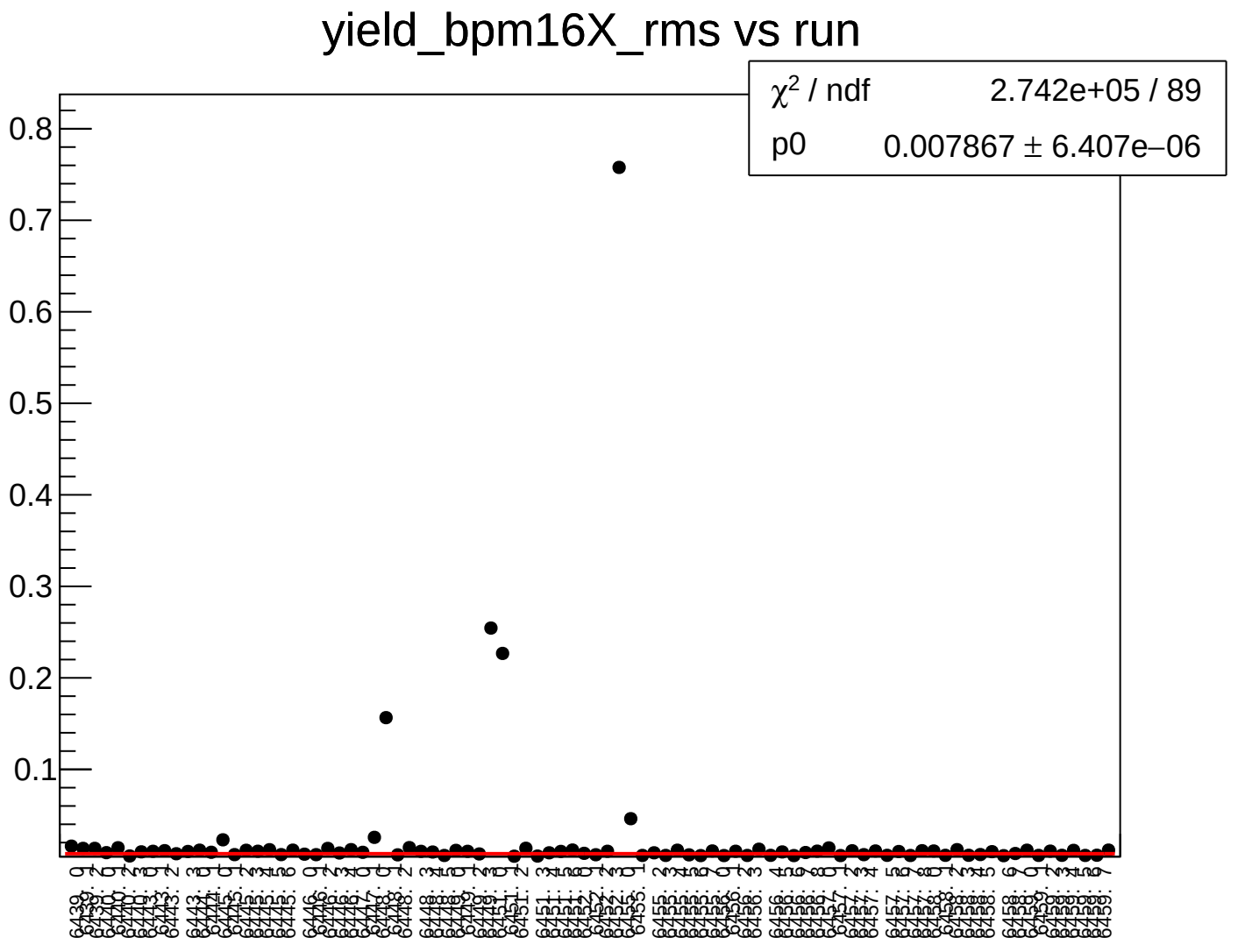

yield_bpm12X_rms vs run
χ² / ndf 1.601e+05 / 89
p0 0.03079 ± 2.418e–05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

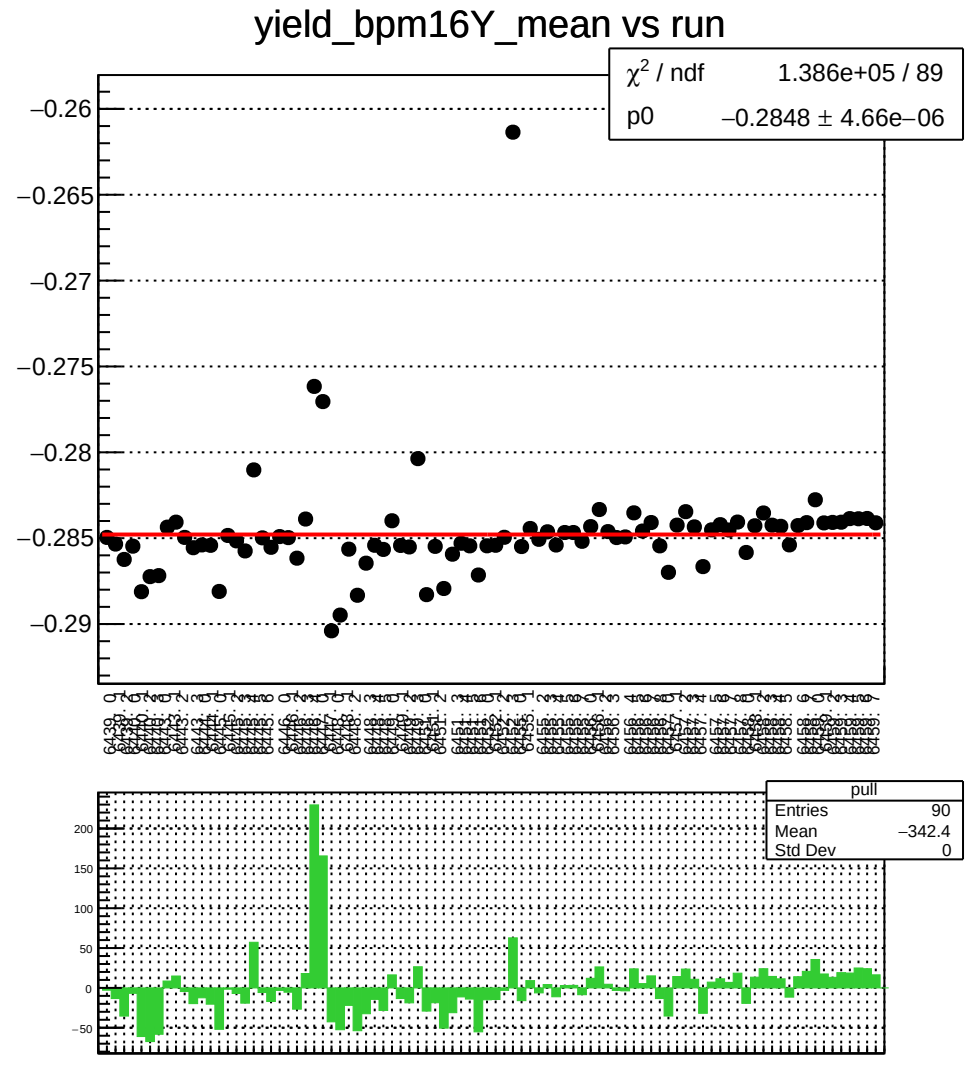

yield_bpm12Y_mean vs run
χ² / ndf 7.671e+06 / 89
p0 1.305 ± 6.992e−06
1.34
1.32
1.3
1.28
1.26
1.24
1.22
pull
Entries 90
Mean −210.3
Std Dev 0
400
200
0
−200
−400
−600
−800
−1000

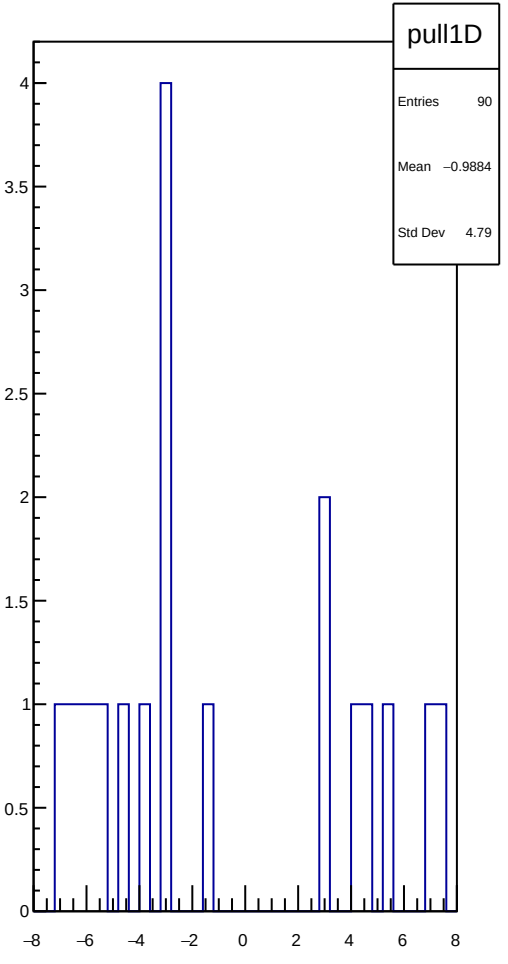

pull1D
Entries 90
Mean −1.672
Std Dev 0.1796
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

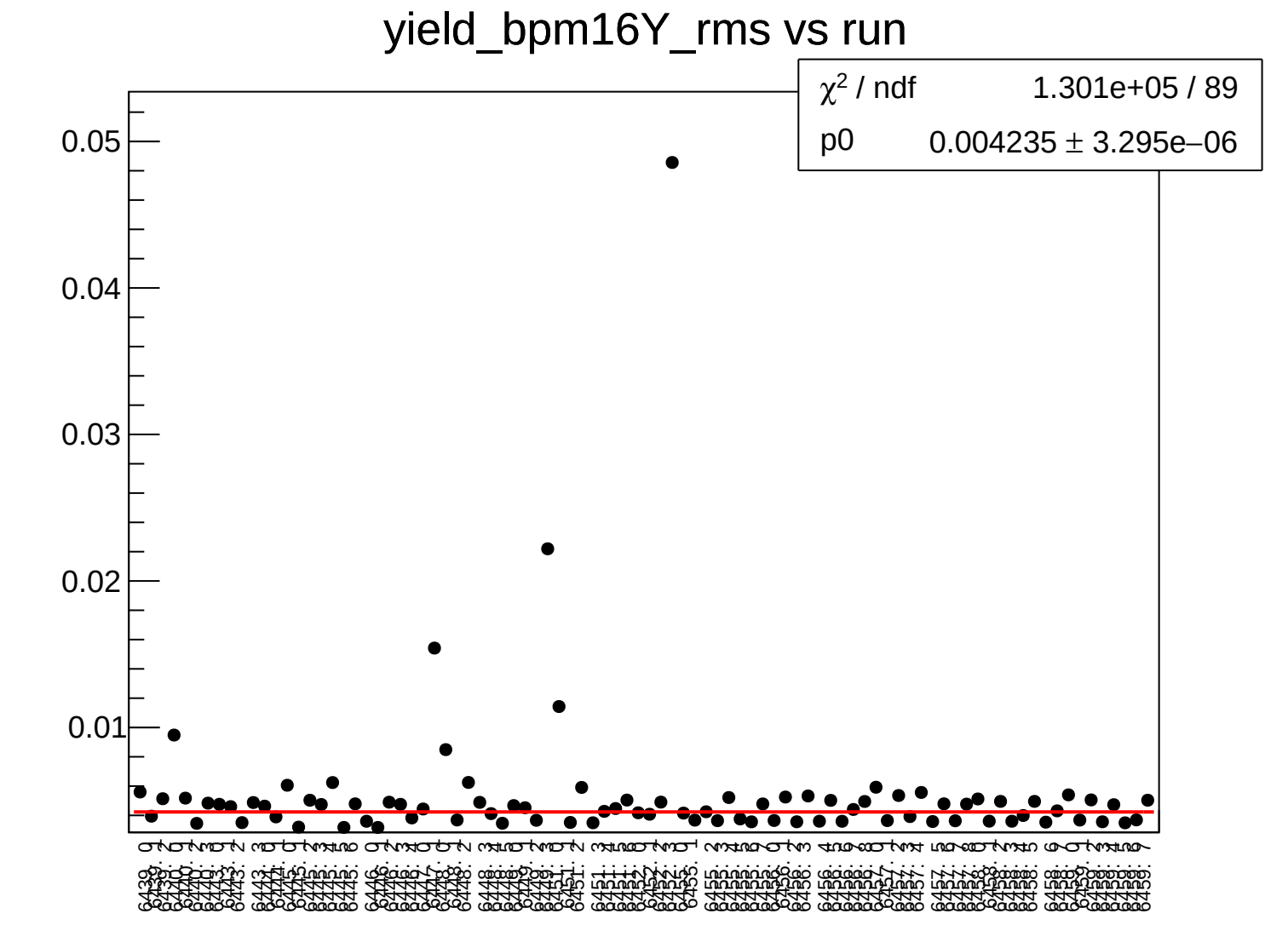

yield_bpm12Y_rms vs run
χ² / ndf 1.137e+05 / 89
p0 0.006386 ± 4.944e−06
0.05
0.04
0.03
0.02
0.01

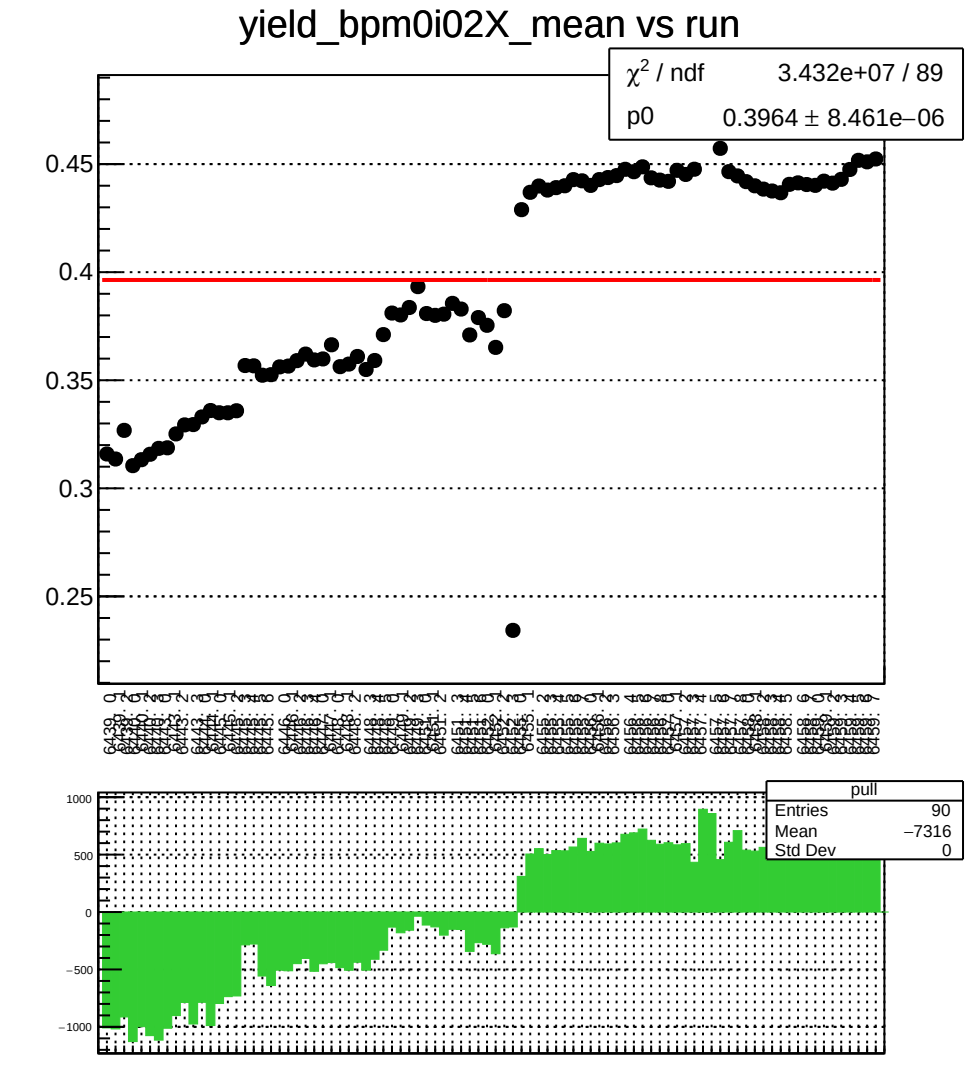

yield_bpm16X_mean vs run
χ² / ndf 2.346e+05 / 89
p0 0.01572 ± 9.061e−06
pull
Entries 90
Mean −230.3
Std Dev 0
pull1D
Entries 90
Mean 2.033
Std Dev 4.068

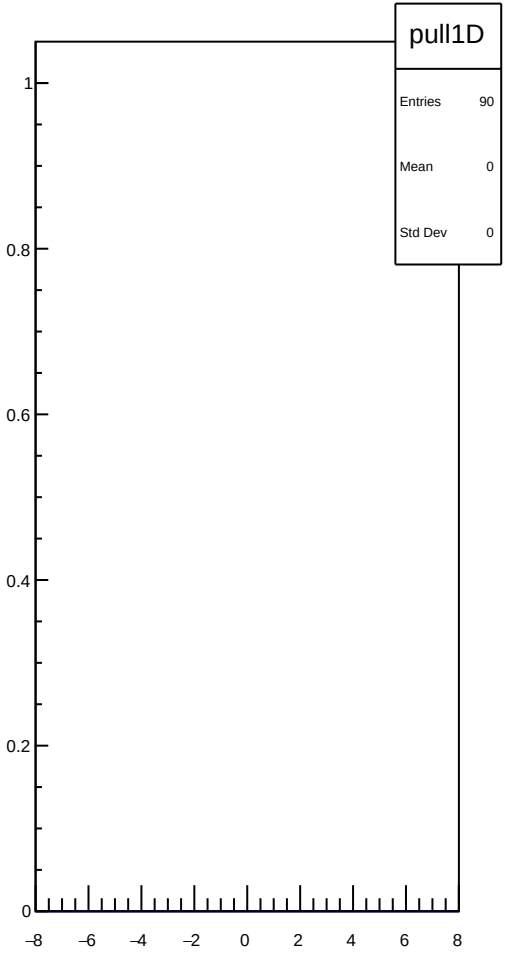

yield_bpm16X_rms vs run
χ² / ndf 2.742e+05 / 89
p0 0.007867 ± 6.407e−06
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

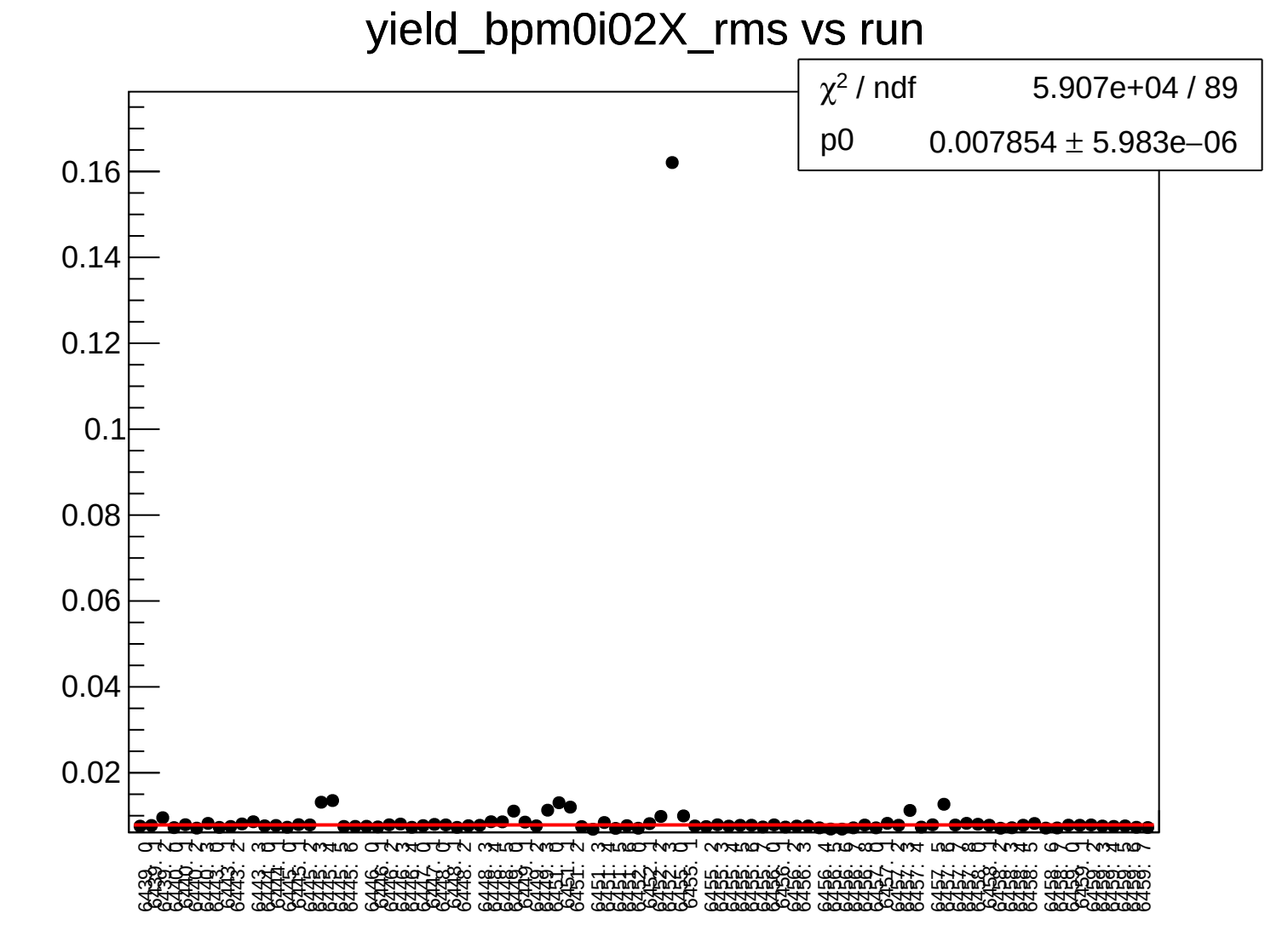

yield_bpm16Y_mean vs run
χ² / ndf 1.386e+05 / 89
p0 −0.2848 ± 4.66e−06
−0.26
−0.265
−0.27
−0.275
−0.28
−0.285
−0.29
pull
Entries 90
Mean −342.4
Std Dev 0
200
150
100
50
0
−50

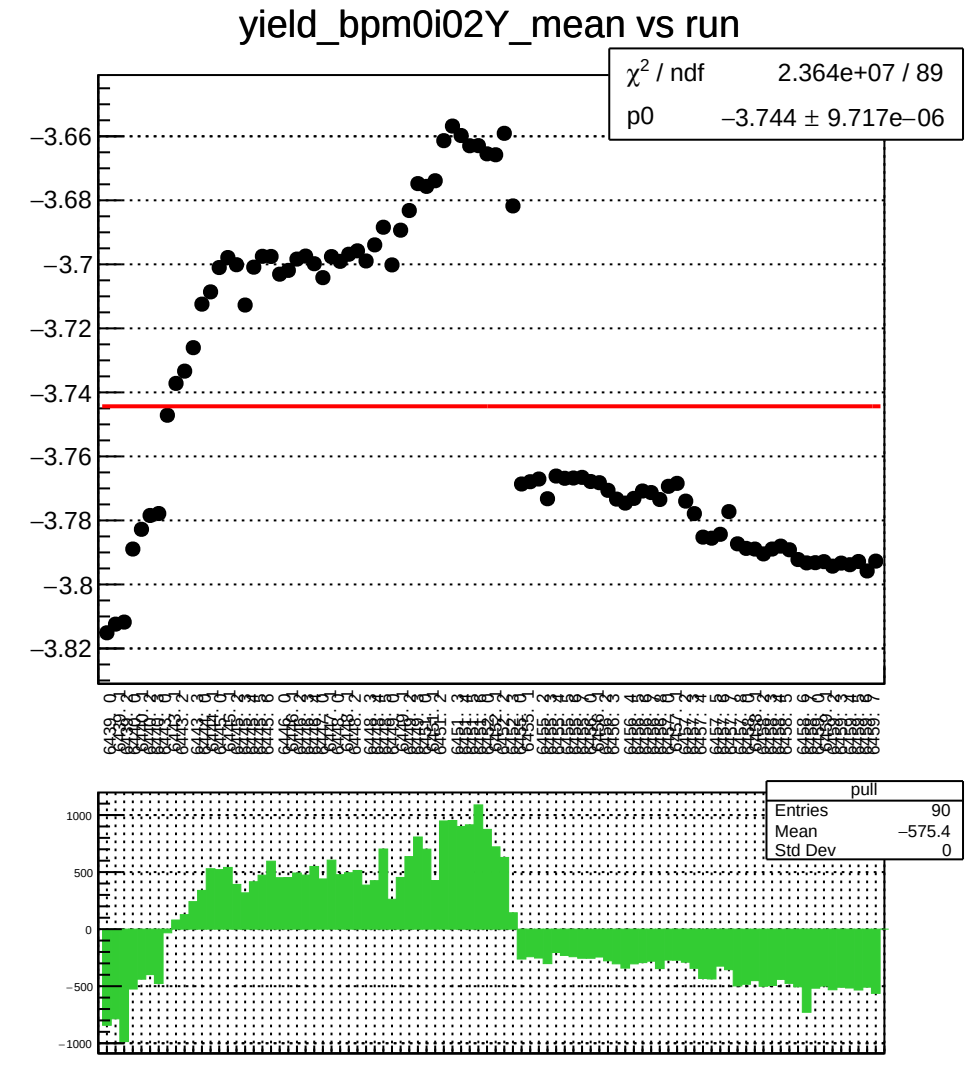

pull1D
Entries 90
Mean −0.9884
Std Dev 4.79
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

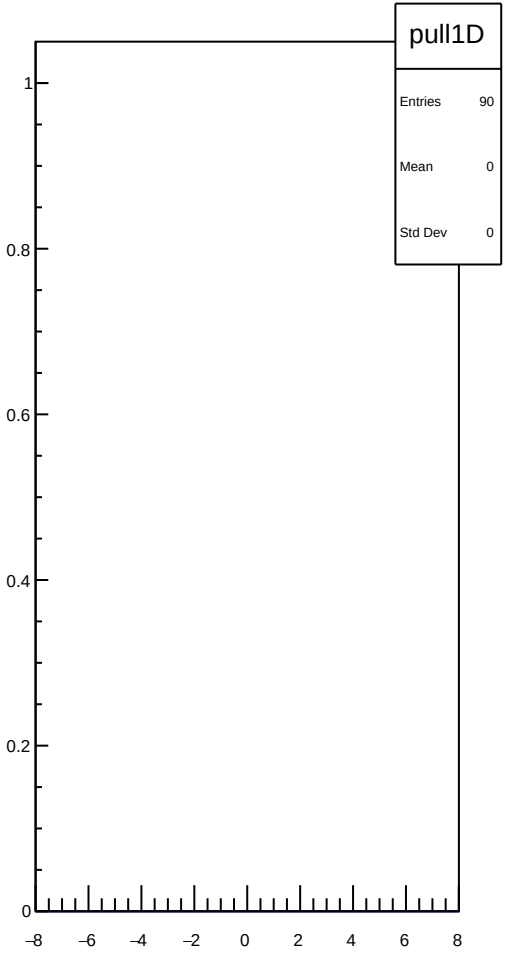

yield_bpm16Y_rms vs run
χ² / ndf 1.301e+05 / 89
p0 0.004235 ± 3.295e−06
0.05
0.04
0.03
0.02
0.01

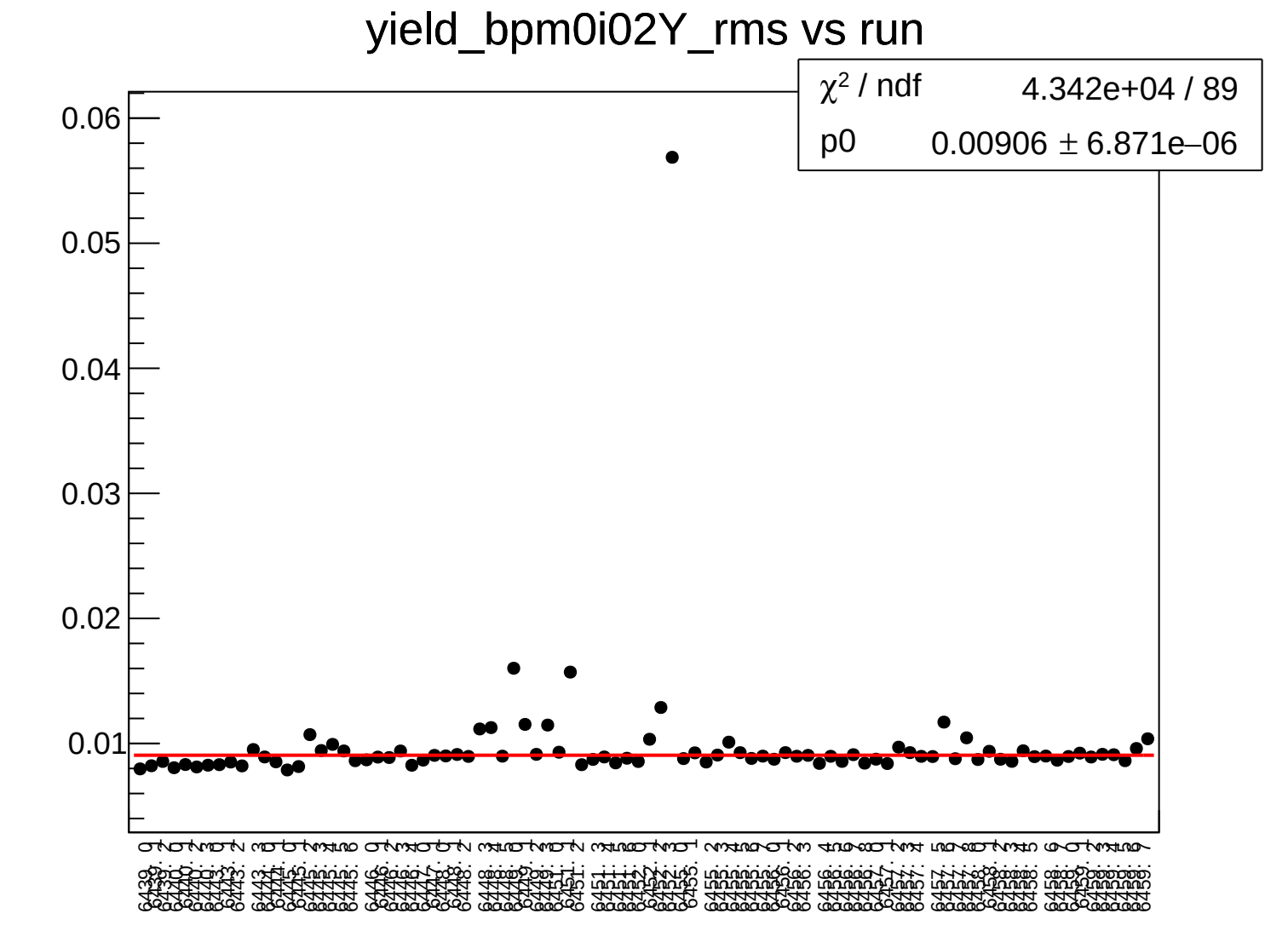

yield_bpm0i02X_mean vs run
χ² / ndf 3.432e+07 / 89
p0 0.3964 ± 8.461e−06
0.45
0.4
0.35
0.3
0.25
pull
Entries 90
Mean −7316
Std Dev 0
1000
500
0
−500
−1000

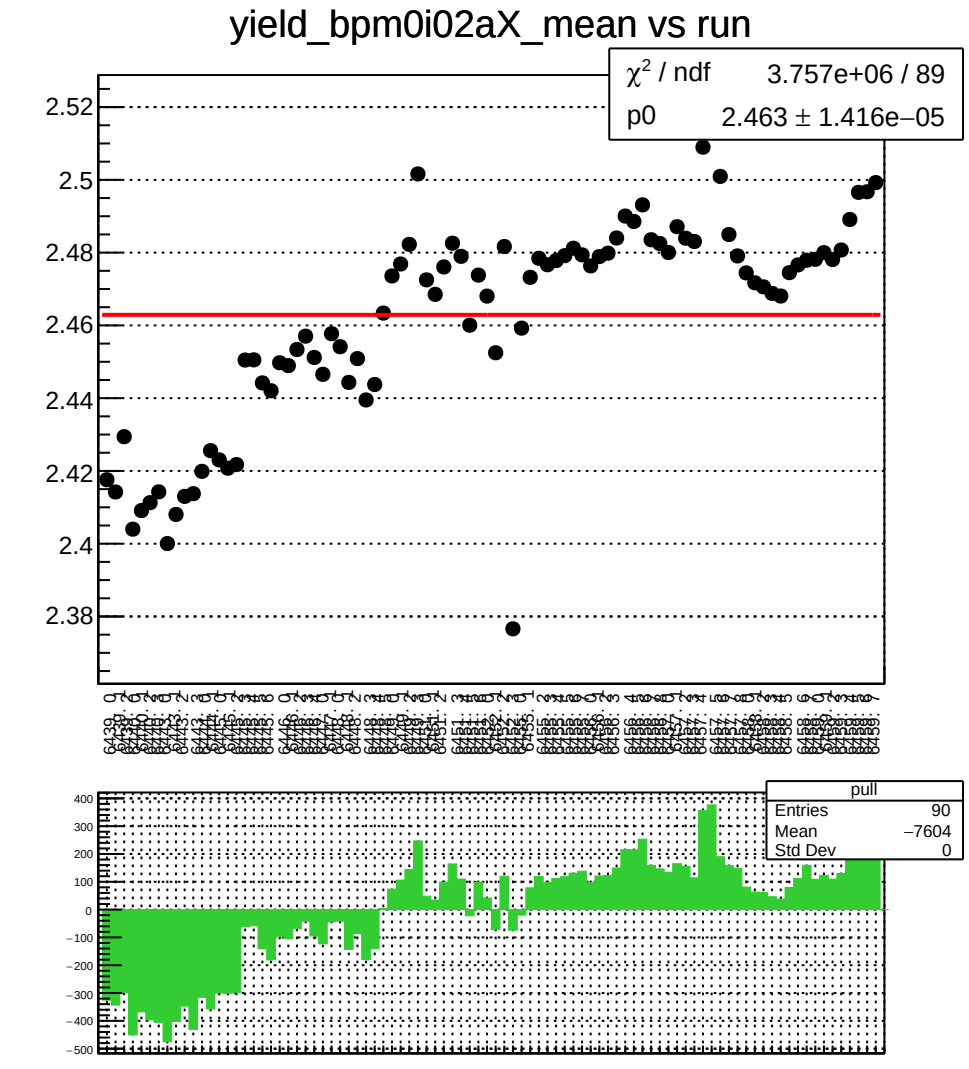

pull1D
Entries 90
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

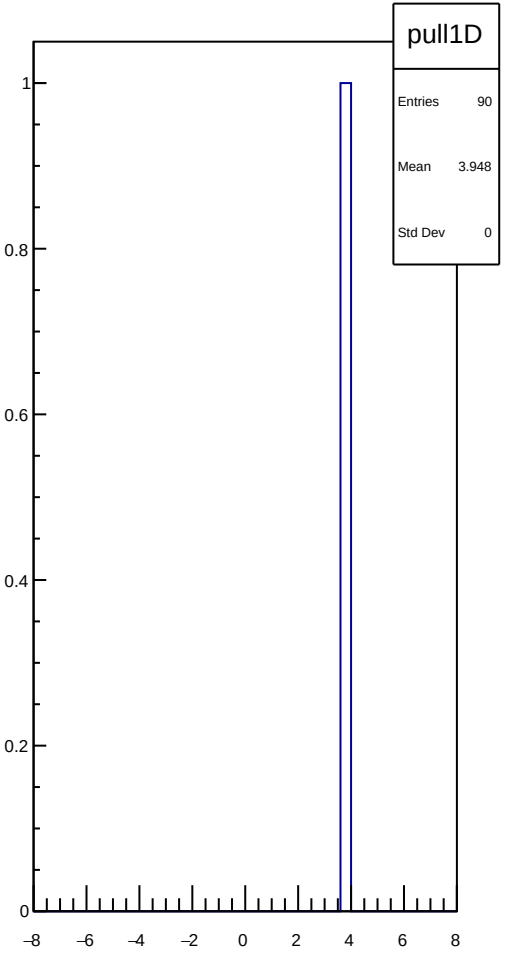

yield_bpm0i02X_rms vs run
χ² / ndf 5.907e+04 / 89
p0 0.007854 ± 5.983e−06
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

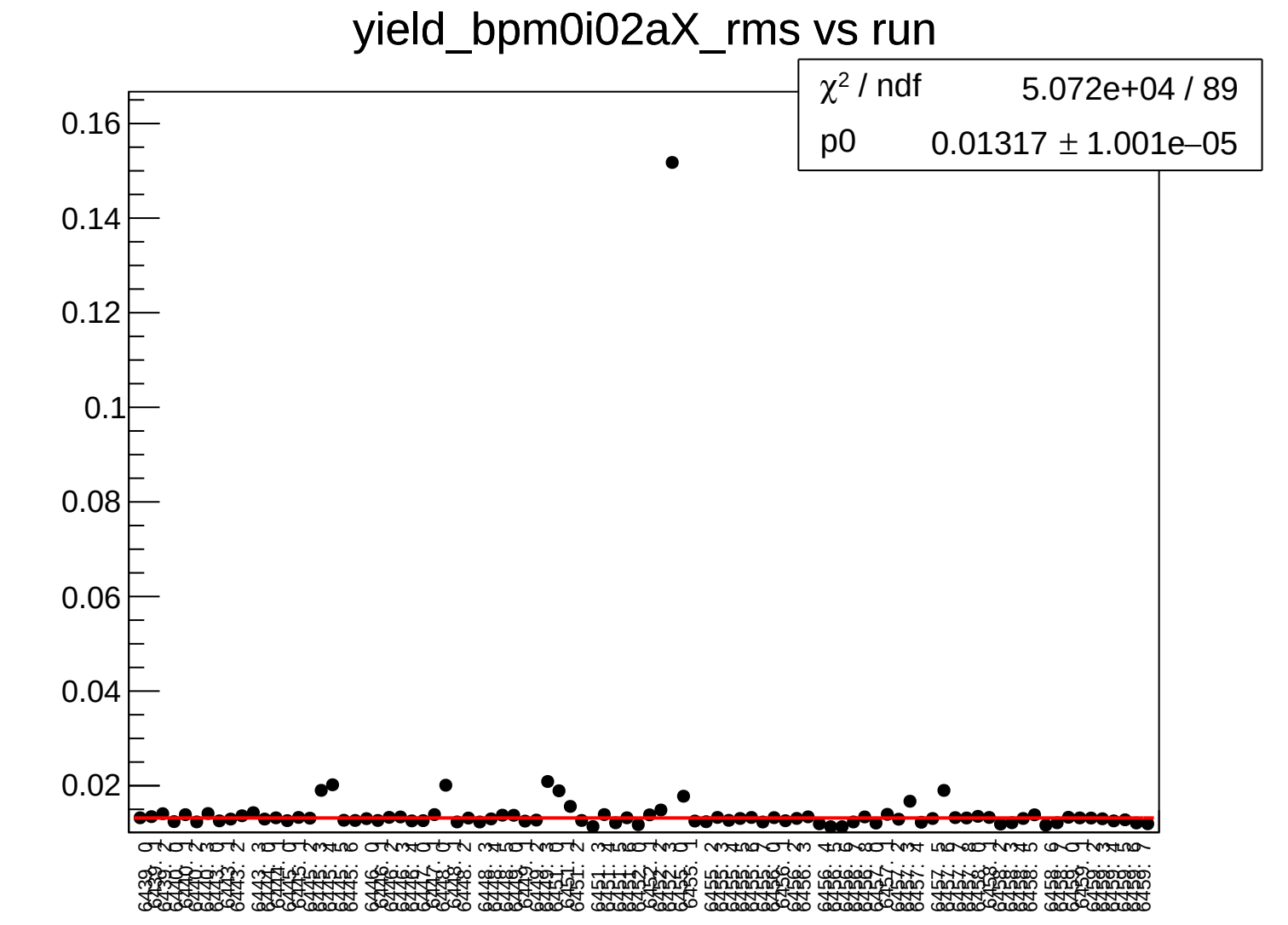

yield_bpm0i02Y_mean vs run
χ² / ndf 2.364e+07 / 89
p0 −3.744 ± 9.717e−06
−3.66
−3.68
−3.7
−3.72
−3.74
−3.76
−3.78
−3.8
−3.82
pull
Entries 90
Mean −575.4
Std Dev 0
1000
500
0
−500
−1000

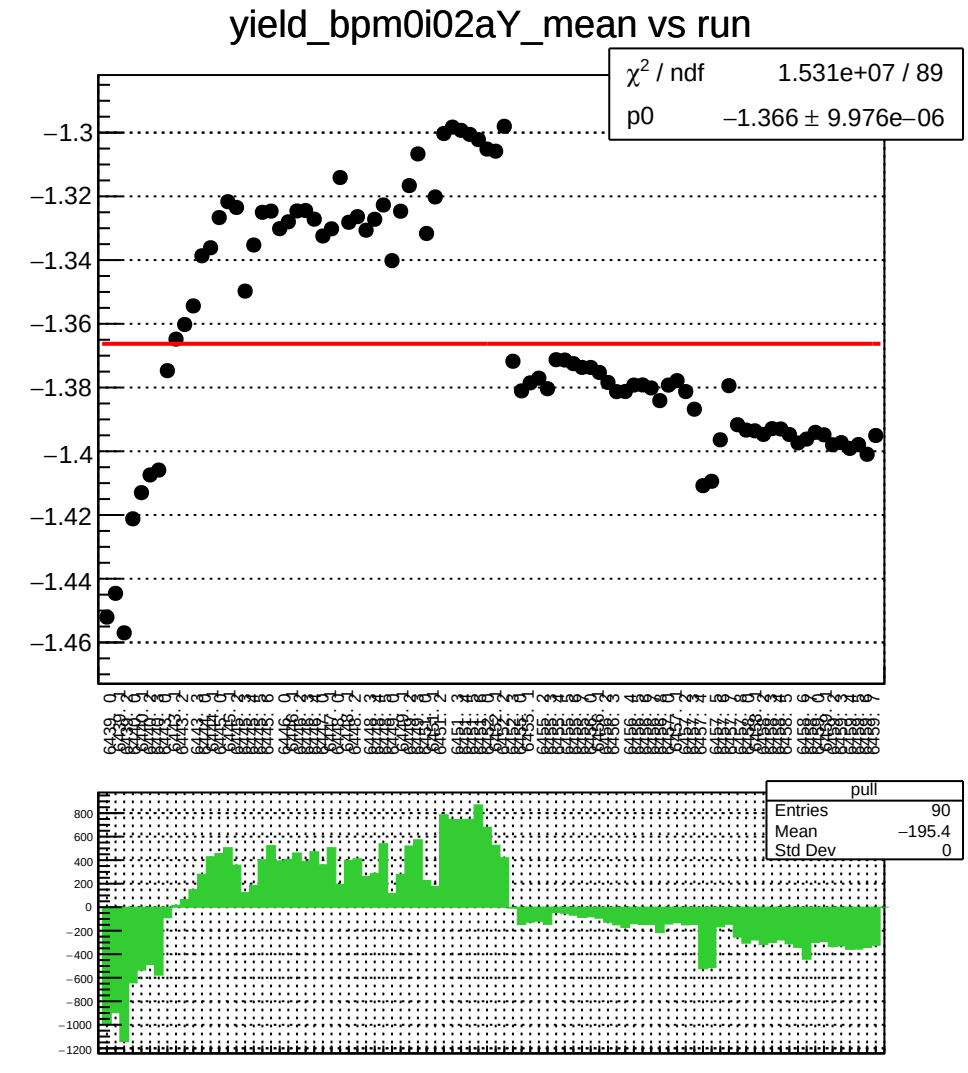

pull1D
Entries 90
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

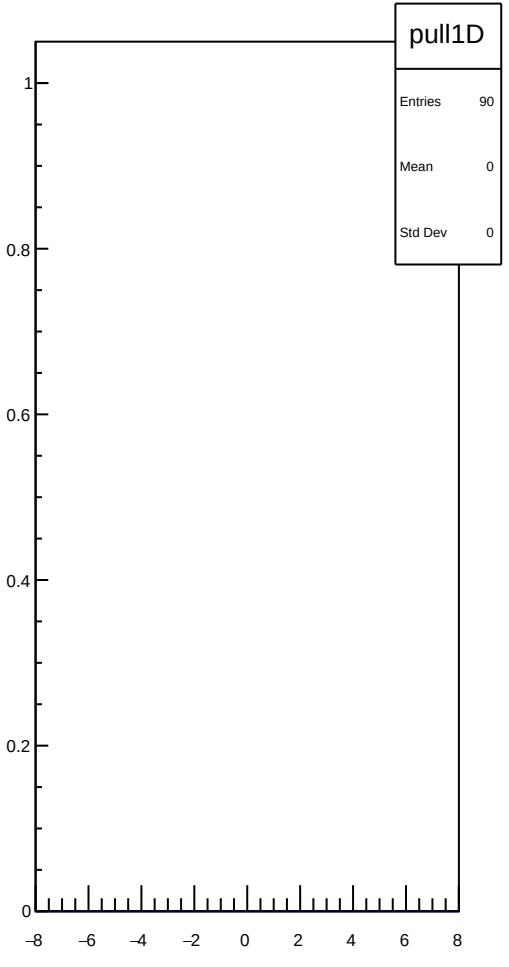

yield_bpm0i02Y_rms vs run
χ² / ndf 4.342e+04 / 89
p0 0.00906 ± 6.871e–06
0.06
0.05
0.04
0.03
0.02
0.01

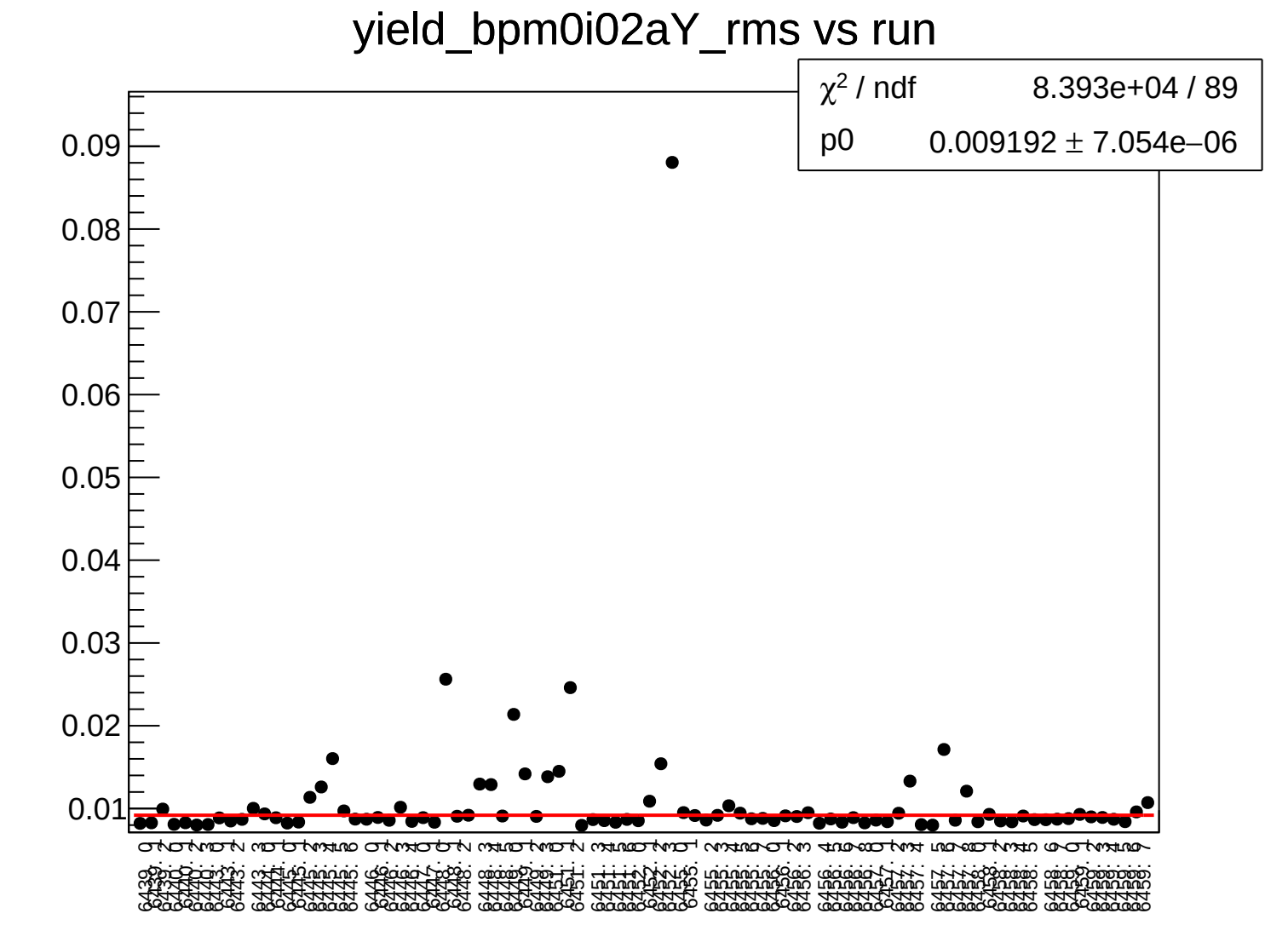

yield_bpm0i02aX_mean vs run
χ² / ndf 3.757e+06 / 89
p0 2.463 ± 1.416e−05
2.52
2.5
2.48
2.46
2.44
2.42
2.4
2.38
pull
Entries 90
Mean −7604
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400
−500

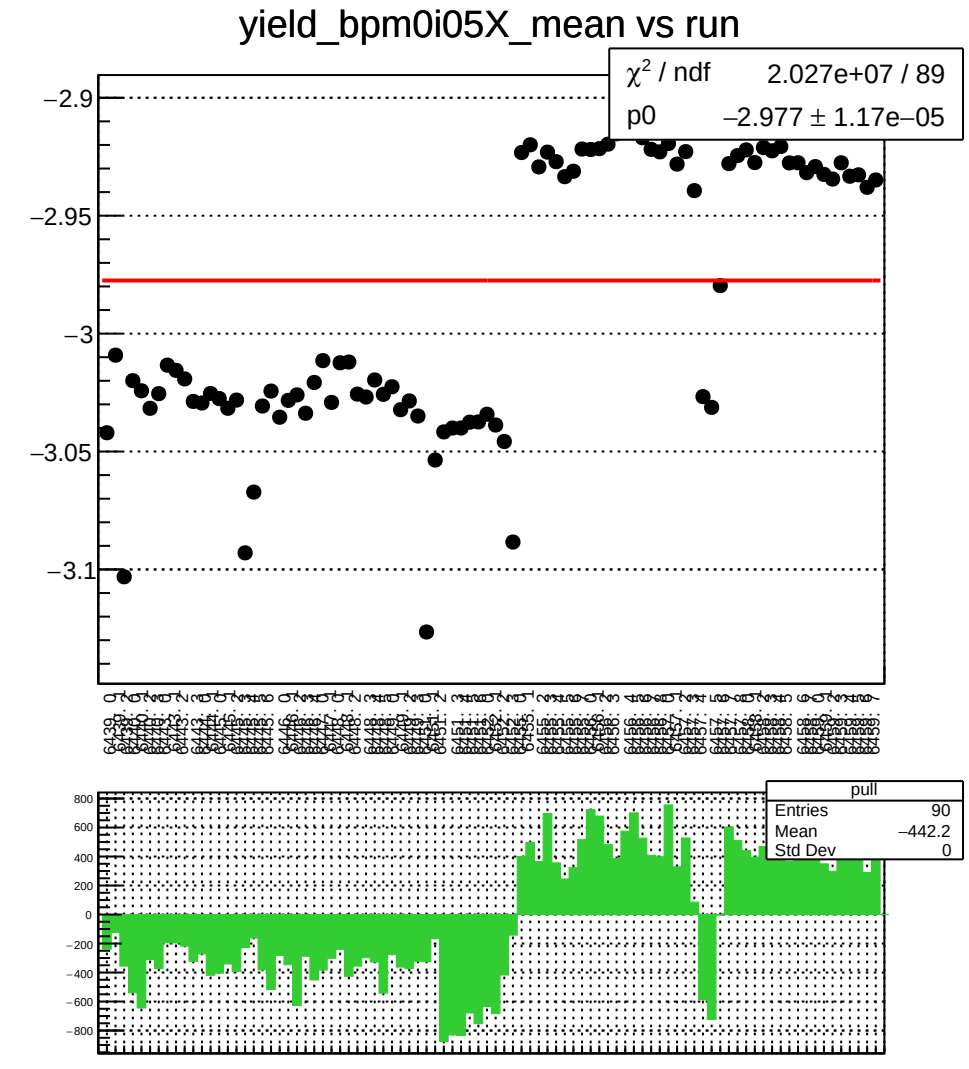

pull1D
Entries 90
Mean 3.948
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

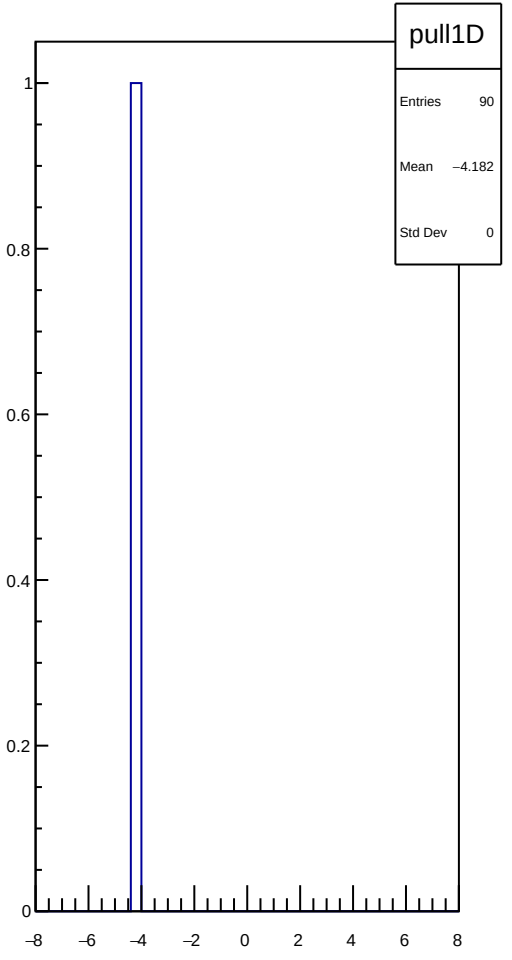

yield_bpm0i02aX_rms vs run
χ² / ndf 5.072e+04 / 89
p0 0.01317 ± 1.001e–05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

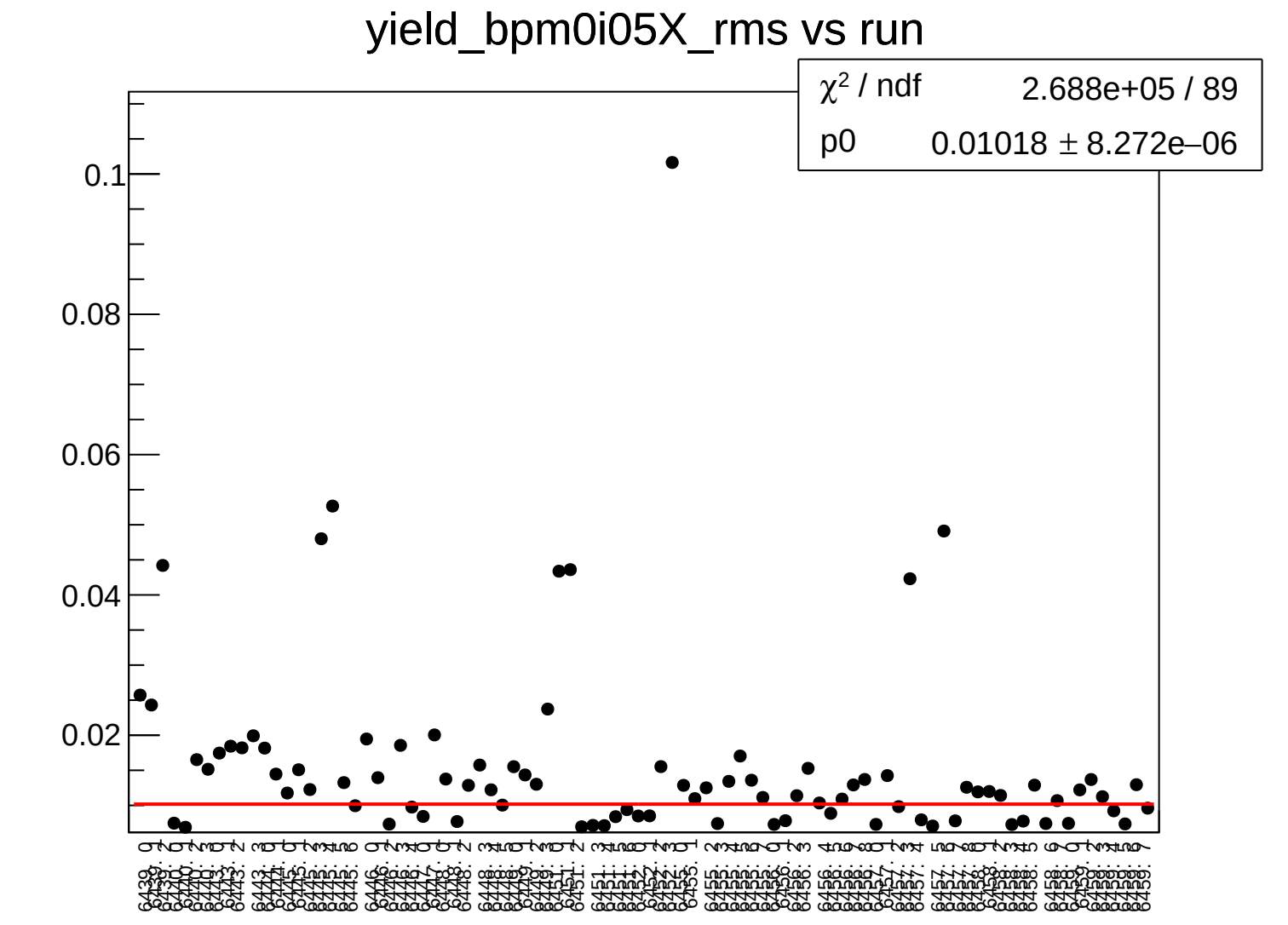

yield_bpm0i02aY_mean vs run
χ² / ndf 1.531e+07 / 89
p0 −1.366 ± 9.976e−06
−1.3
−1.32
−1.34
−1.36
−1.38
−1.4
−1.42
−1.44
−1.46
pull
Entries 90
Mean −195.4
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800
−1000
−1200

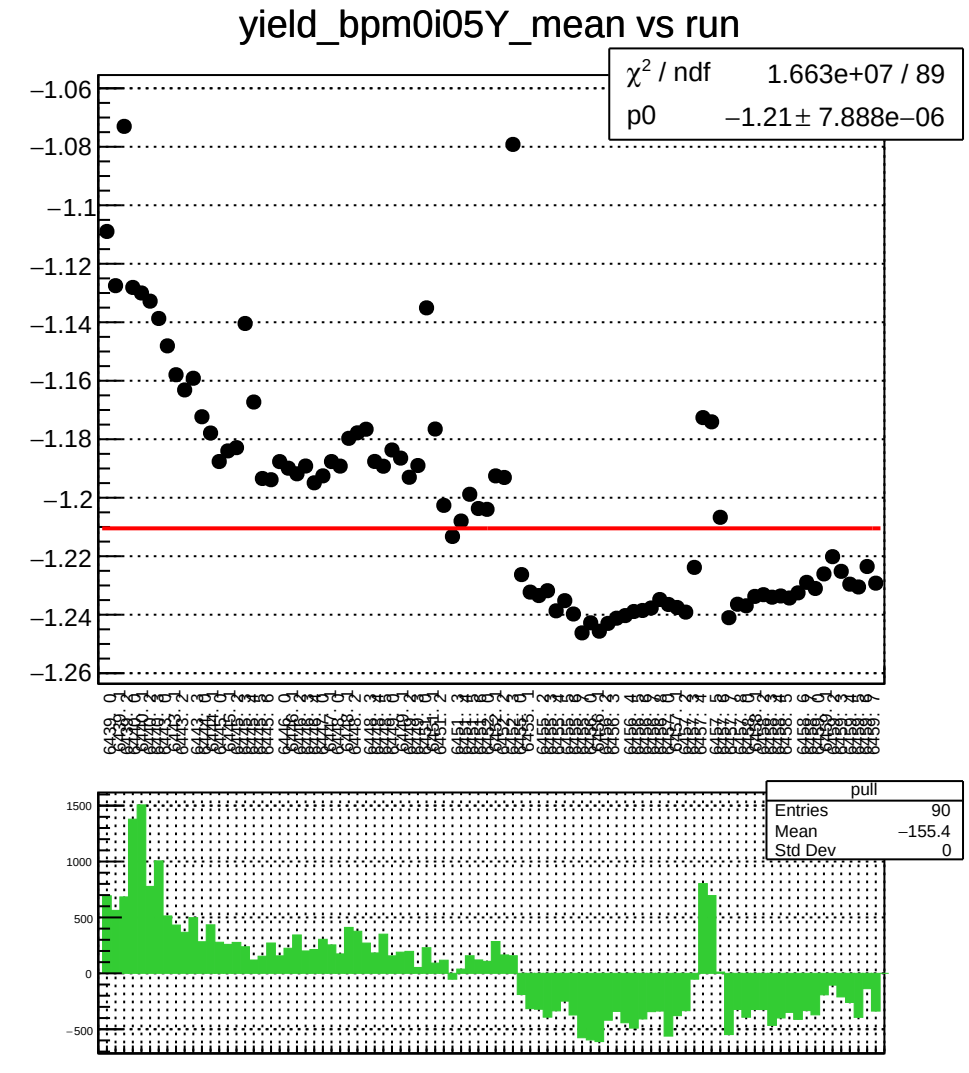

pull1D
Entries 90
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

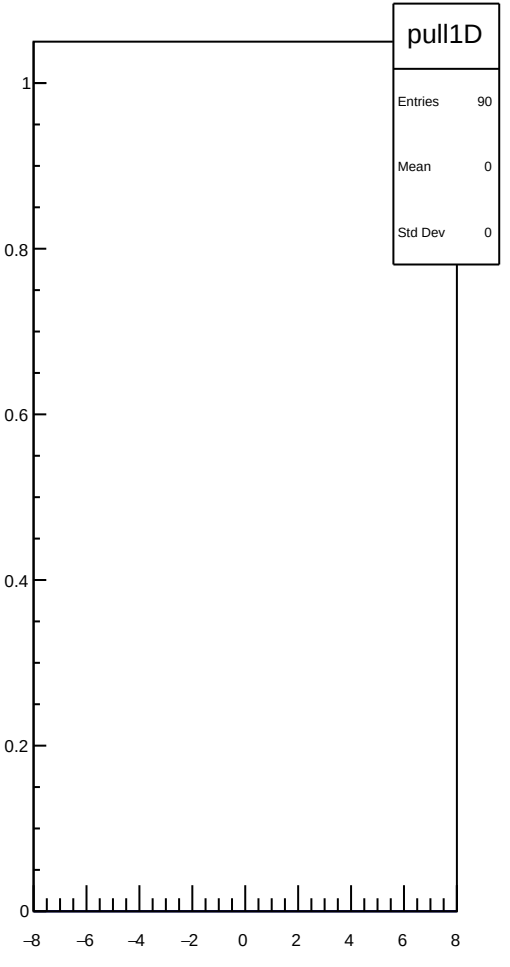

yield_bpm0i02aY_rms vs run
χ² / ndf 8.393e+04 / 89
p0 0.009192 ± 7.054e−06
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

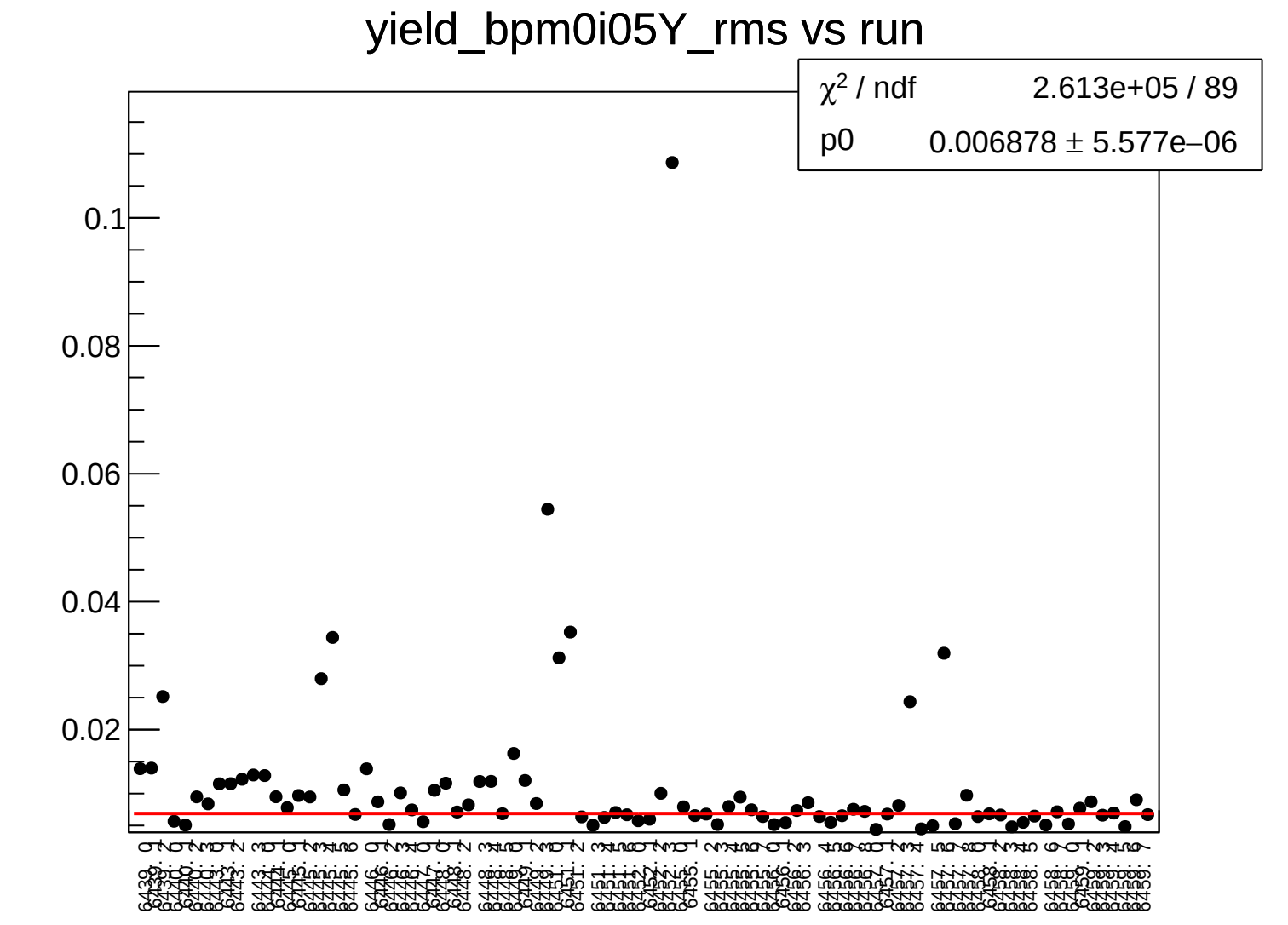

yield_bpm0i05X_mean vs run
χ² / ndf 2.027e+07 / 89
p0 −2.977 ± 1.17e−05
−2.9
−2.95
−3
−3.05
−3.1
pull
Entries 90
Mean −442.2
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800

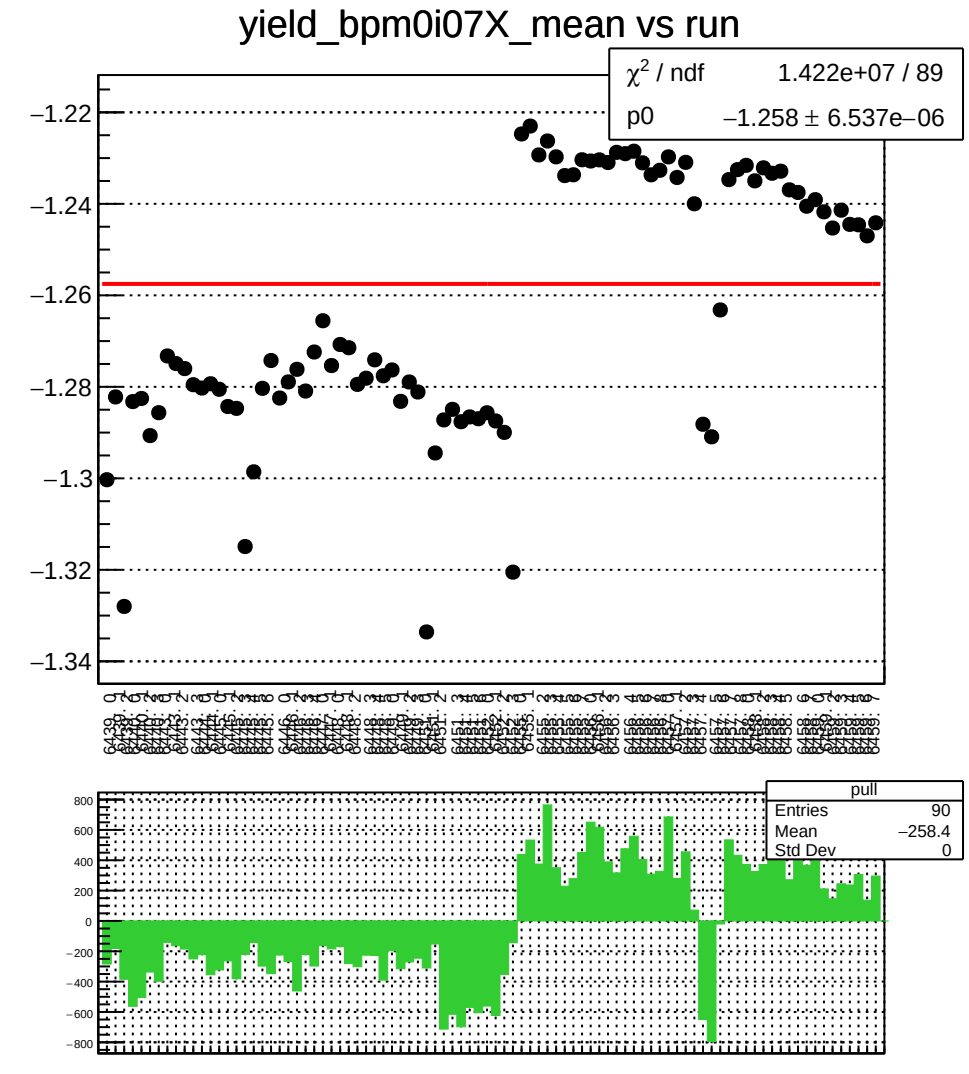

pull1D
Entries 90
Mean −4.182
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

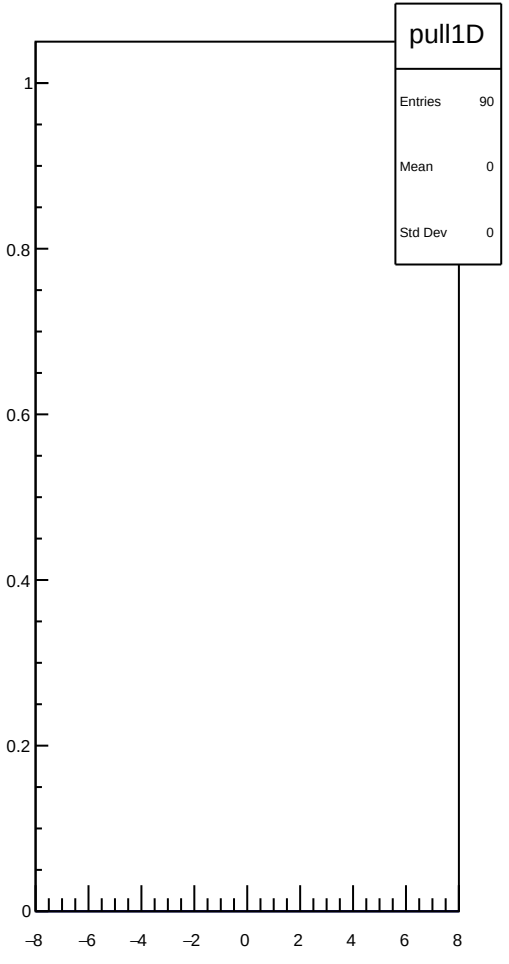

yield_bpm0i05X_rms vs run
χ² / ndf 2.688e+05 / 89
p0 0.01018 ± 8.272e–06
0.1
0.08
0.06
0.04
0.02

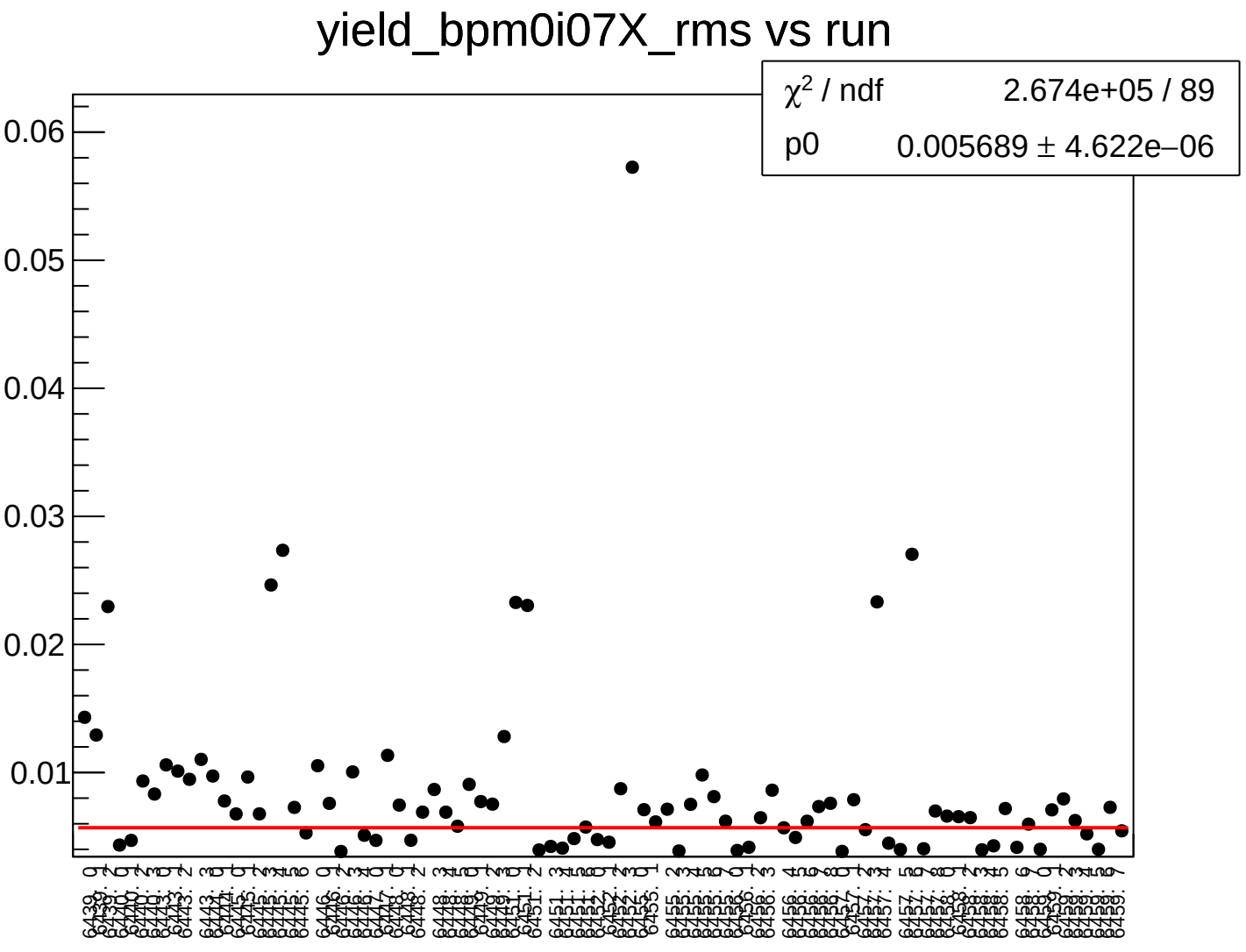

yield_bpm0i05Y_mean vs run
χ² / ndf 1.663e+07 / 89
p0 −1.21 ± 7.888e−06
−1.06
−1.08
−1.1
−1.12
−1.14
−1.16
−1.18
−1.2
−1.22
−1.24
−1.26
pull
Entries 90
Mean −155.4
Std Dev 0
1500
1000
500
0
−500

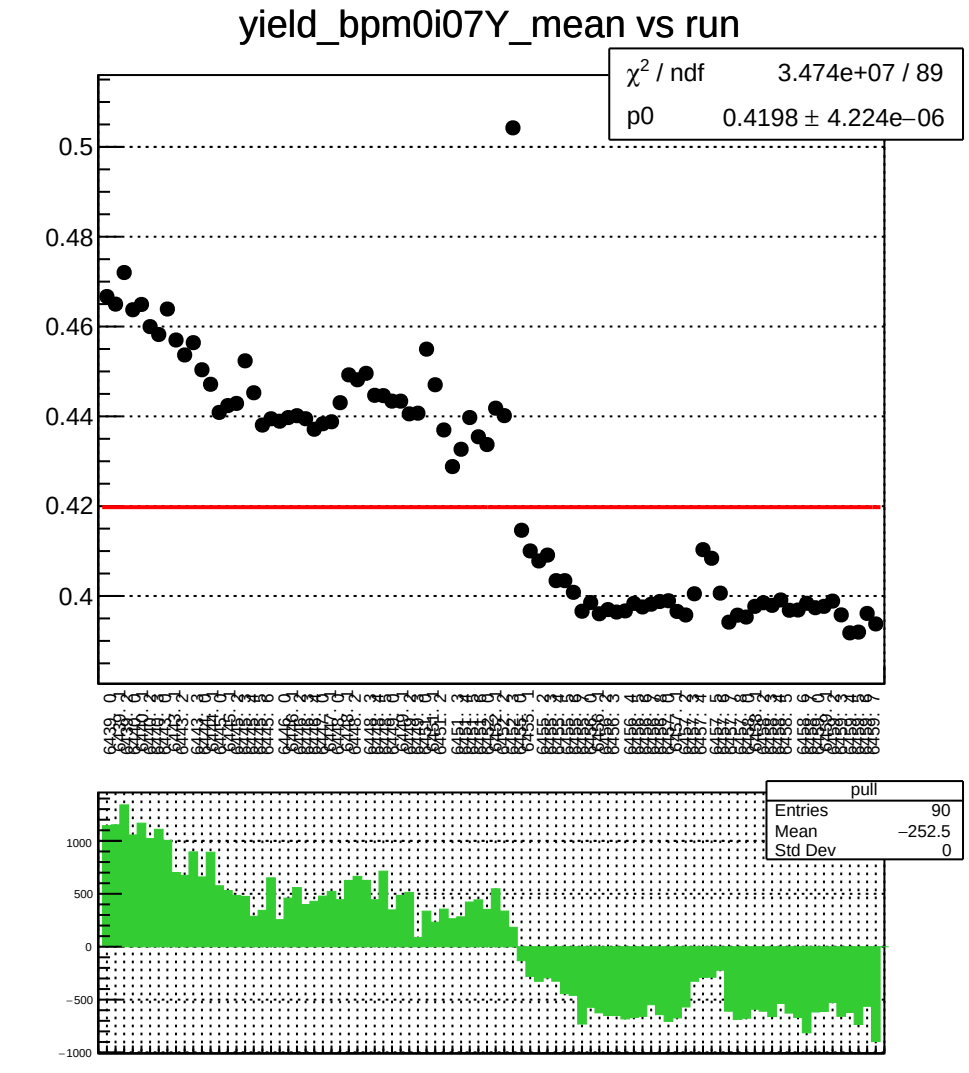

pull1D
Entries 90
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

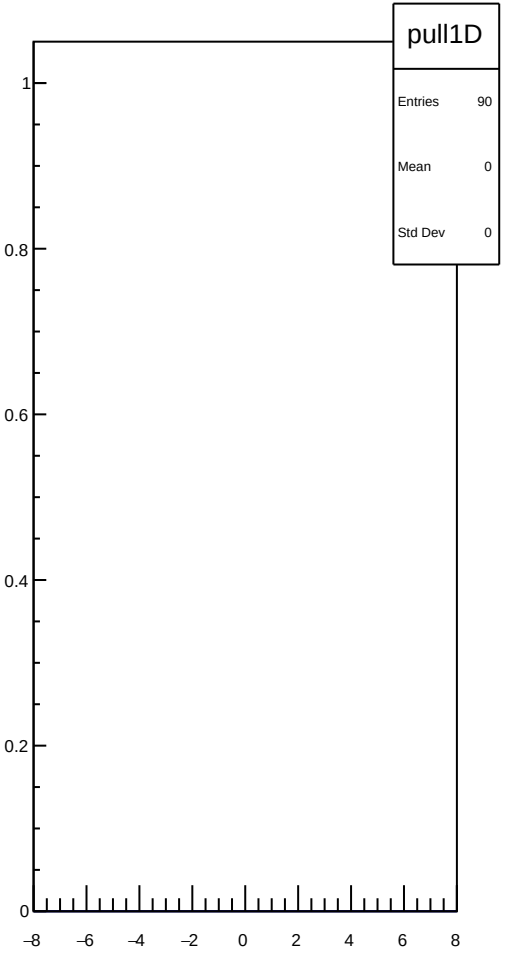

yield_bpm0i05Y_rms vs run
χ² / ndf 2.613e+05 / 89
p0 0.006878 ± 5.577e−06
0.1
0.08
0.06
0.04
0.02

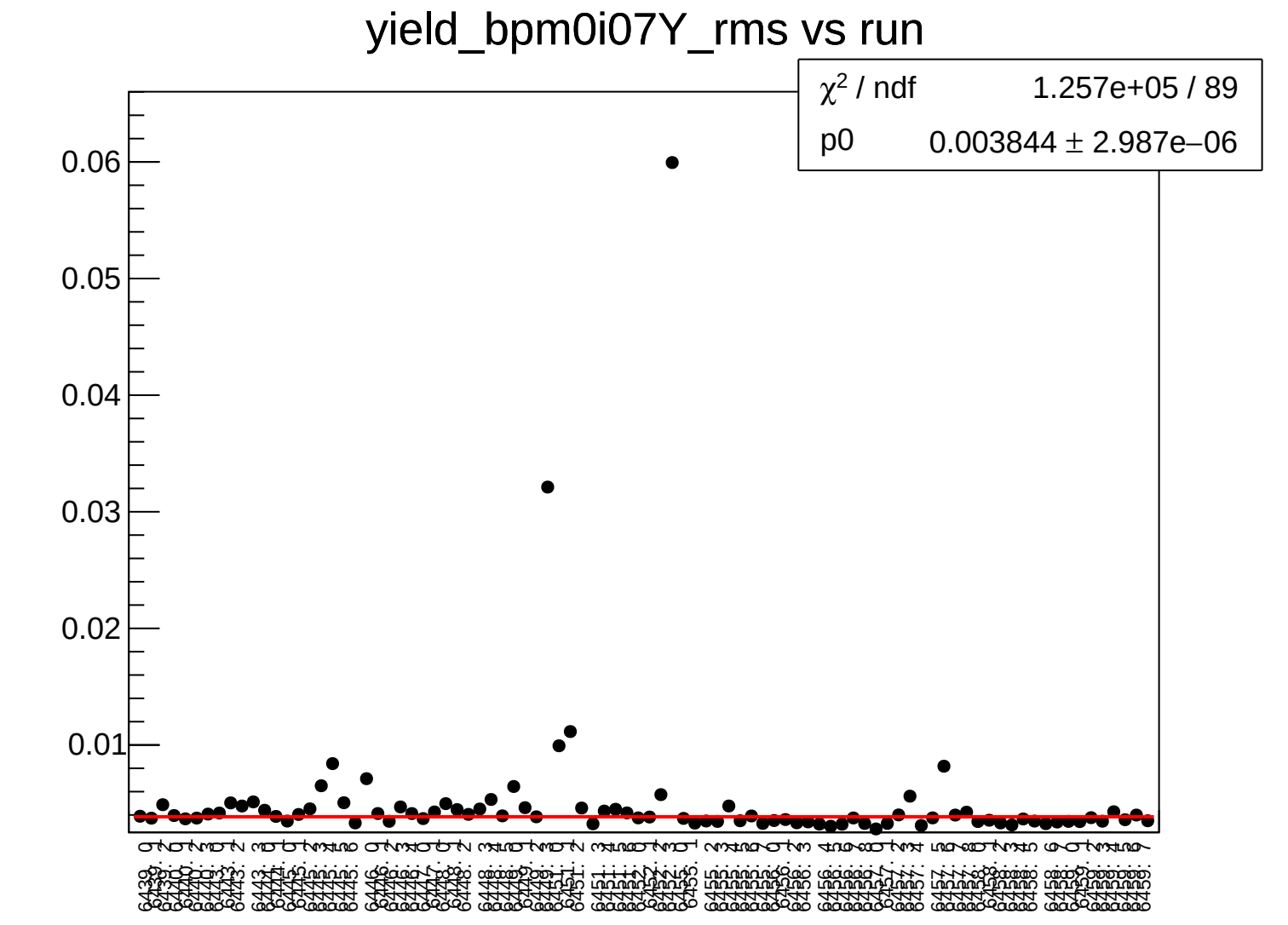

yield_bpm0i07X_mean vs run
χ² / ndf 1.422e+07 / 89
p0 −1.258 ± 6.537e−06
−1.22
−1.24
−1.26
−1.28
−1.3
−1.32
−1.34
pull
Entries 90
Mean −258.4
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800

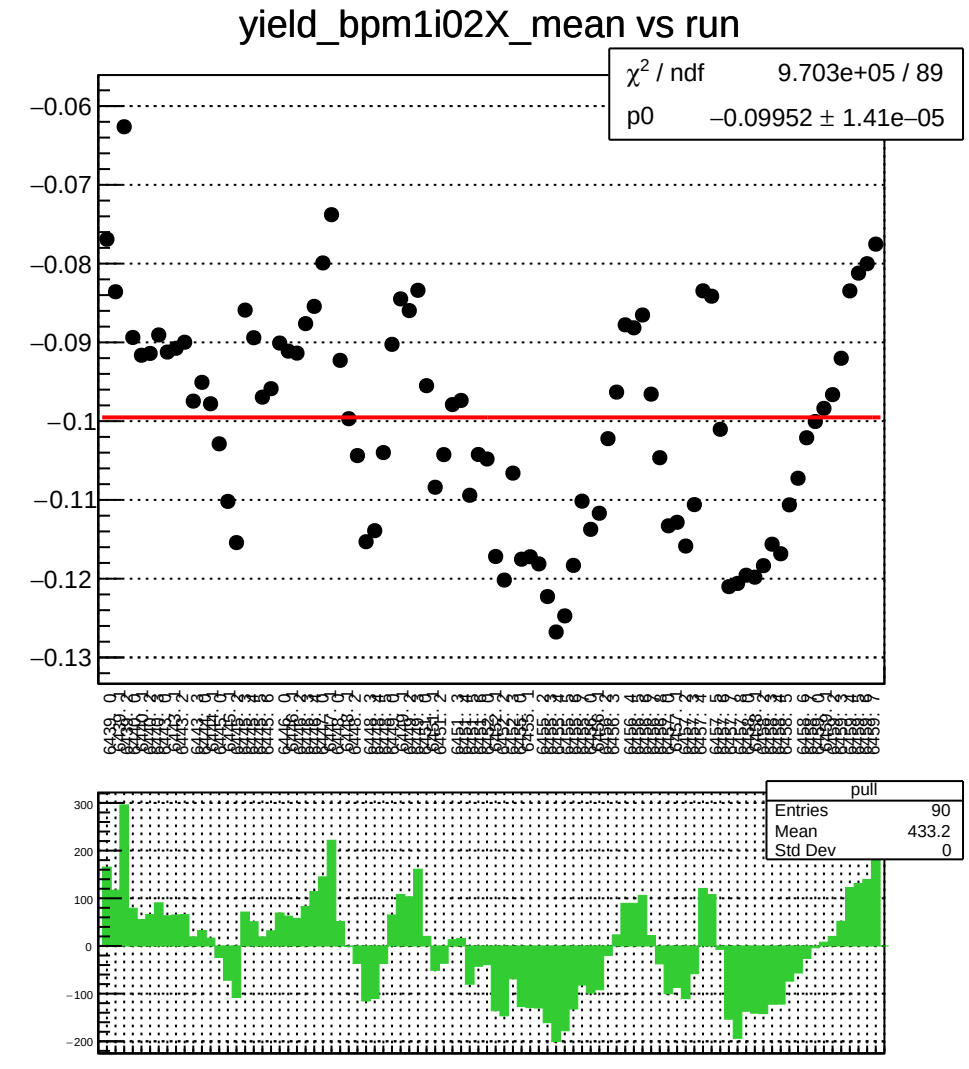

pull1D
Entries 90
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

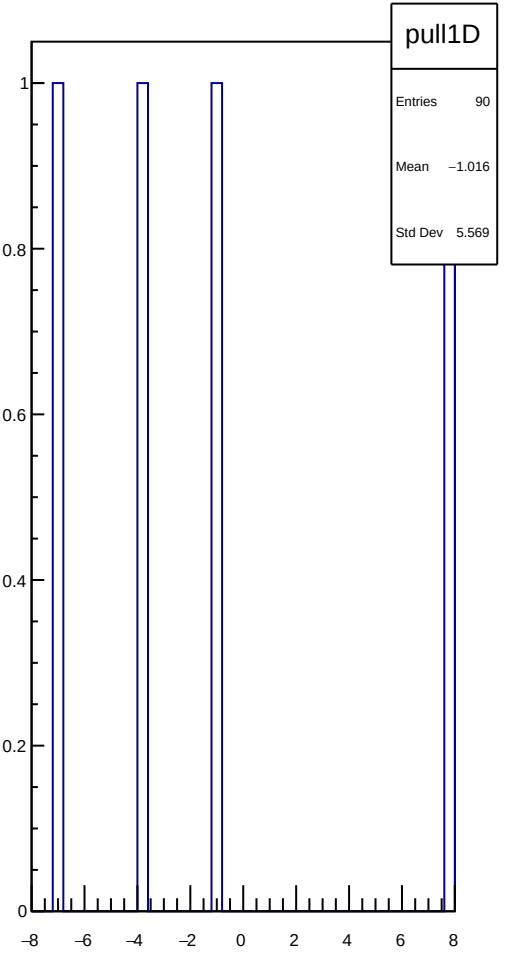

yield_bpm0i07X_rms vs run
χ² / ndf 2.674e+05 / 89
p0 0.005689 ± 4.622e−06
0.06
0.05
0.04
0.03
0.02
0.01

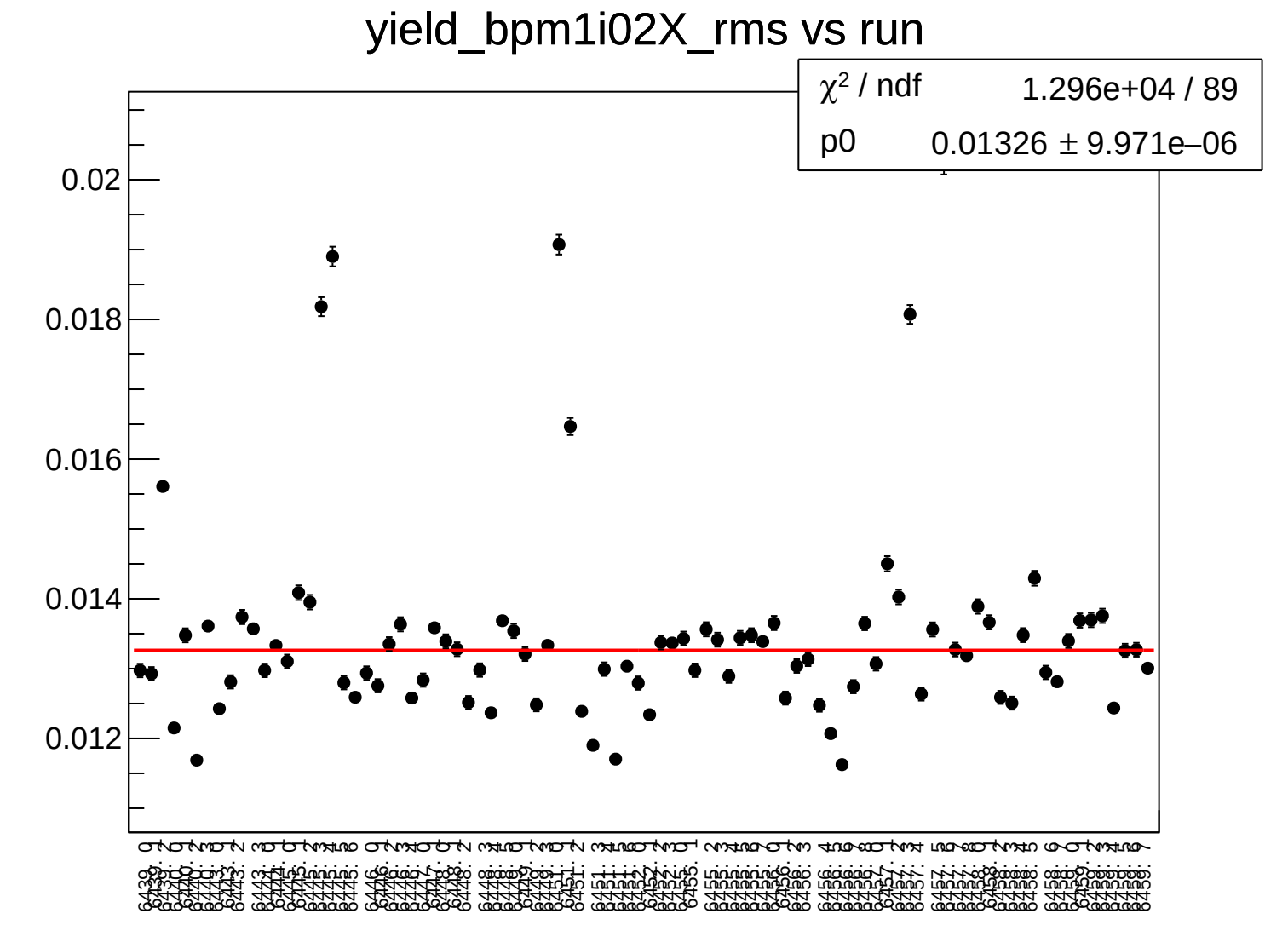

yield_bpm0i07Y_mean vs run
χ² / ndf 3.474e+07 / 89
p0 0.4198 ± 4.224e−06
0.5
0.48
0.46
0.44
0.42
0.4
pull
Entries 90
Mean −252.5
Std Dev 0
1000
500
0
−500
−1000

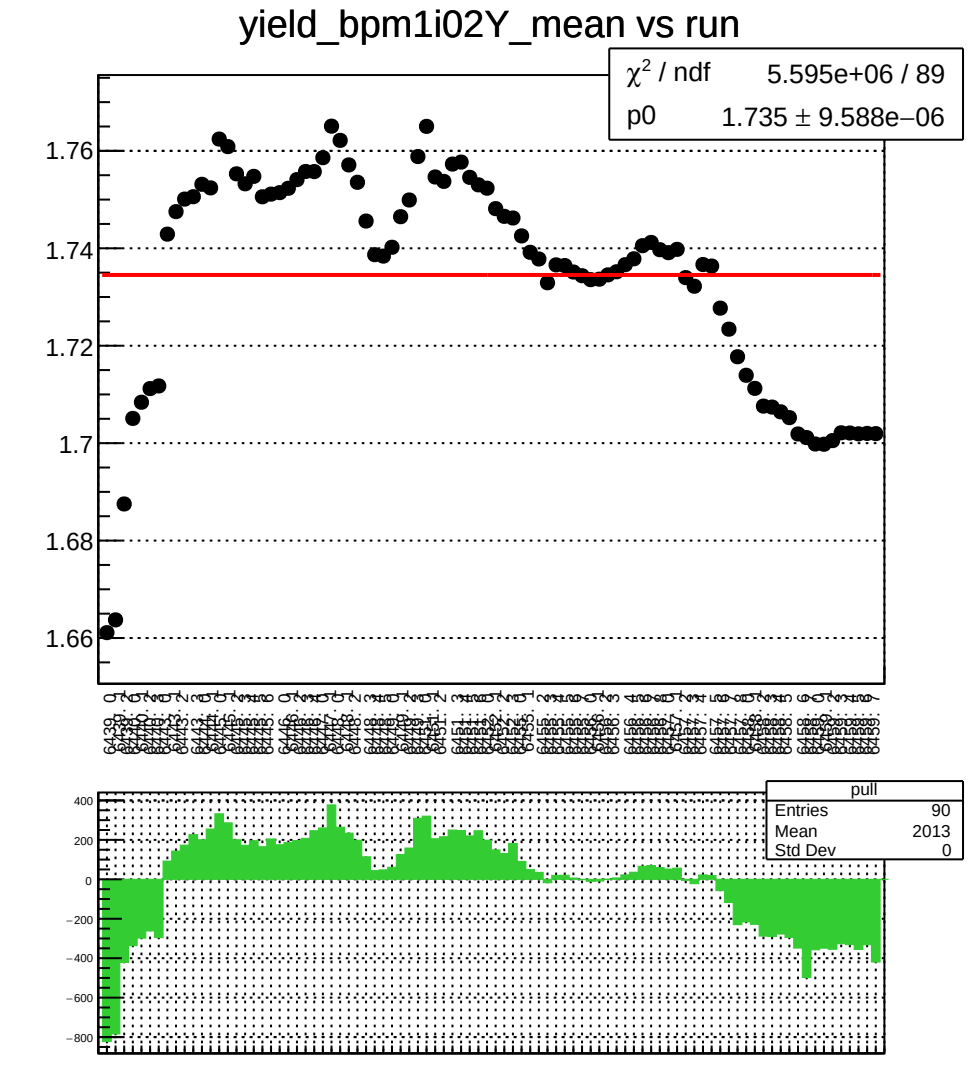

pull1D
Entries 90
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

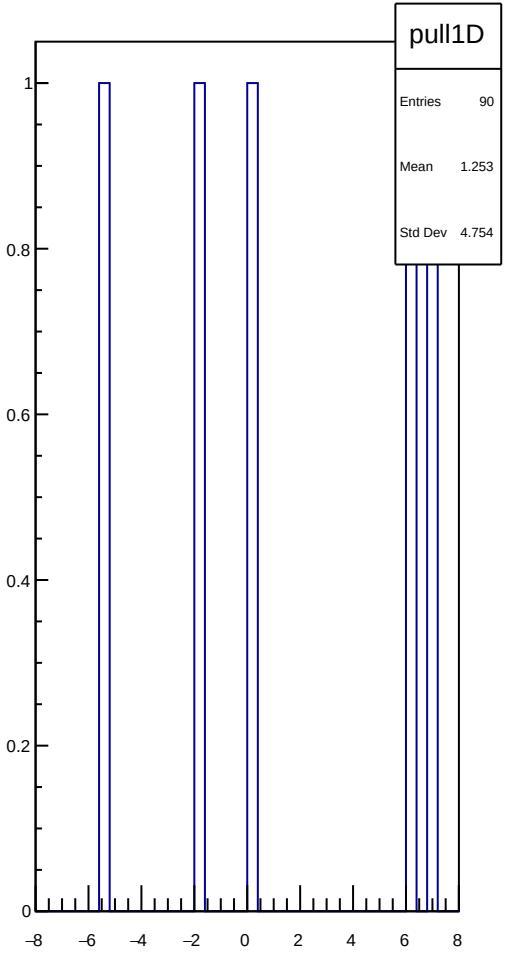

yield_bpm0i07Y_rms vs run
χ² / ndf 1.257e+05 / 89
p0 0.003844 ± 2.987e−06
0.06
0.05
0.04
0.03
0.02
0.01

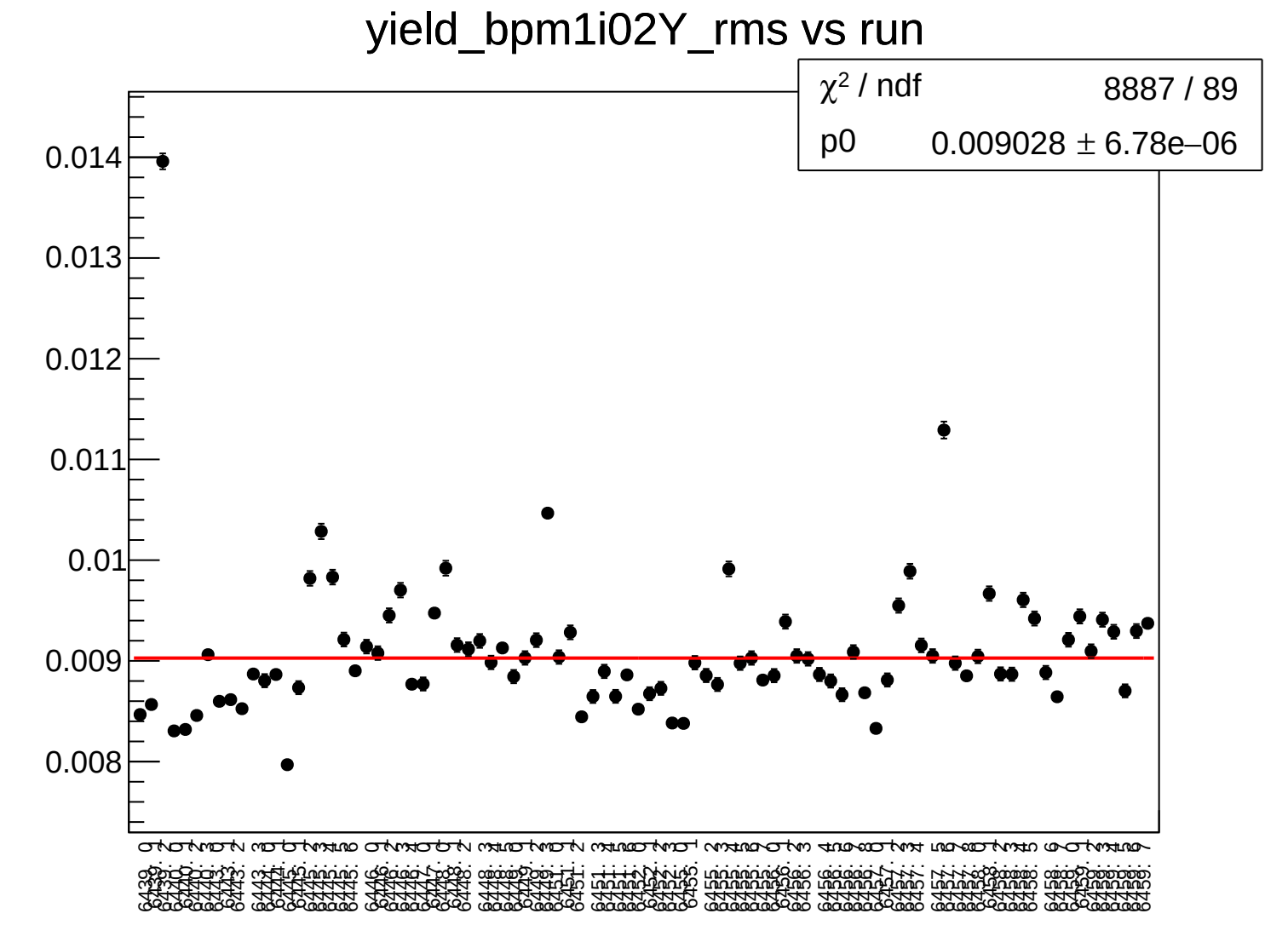

yield_bpm1i02X_mean vs run
χ² / ndf 9.703e+05 / 89
p0 −0.09952 ± 1.41e−05
−0.06
−0.07
−0.08
−0.09
−0.1
−0.11
−0.12
−0.13
pull
Entries 90
Mean 433.2
Std Dev 0
300
200
100
0
−100
−200

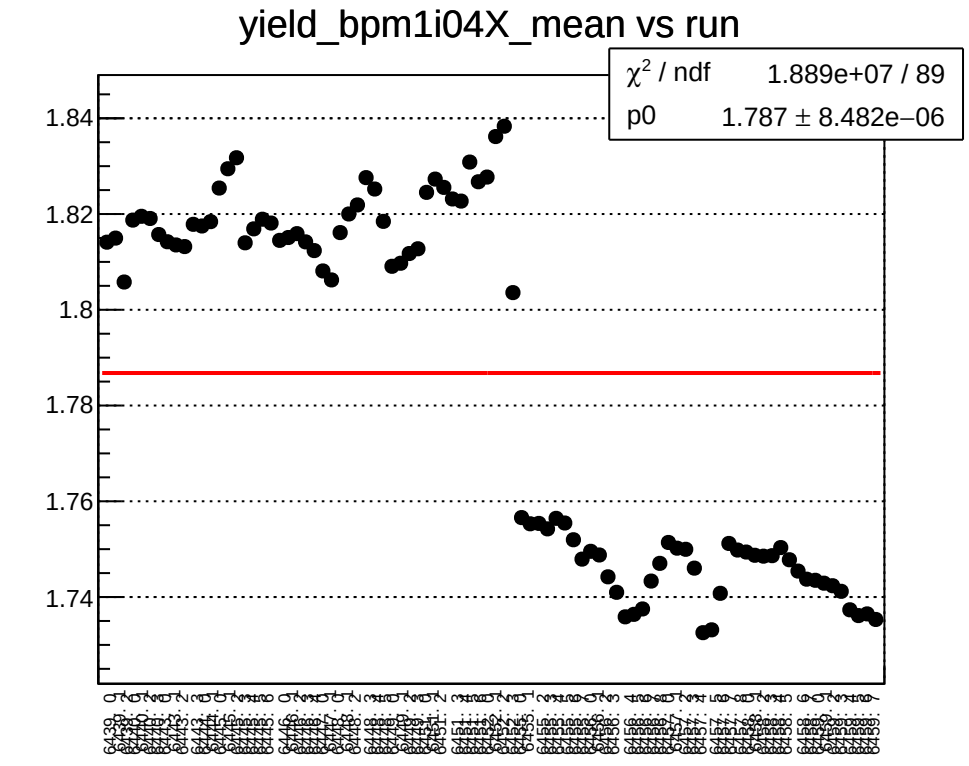

pull1D
Entries 90
Mean −1.016
Std Dev 5.569
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

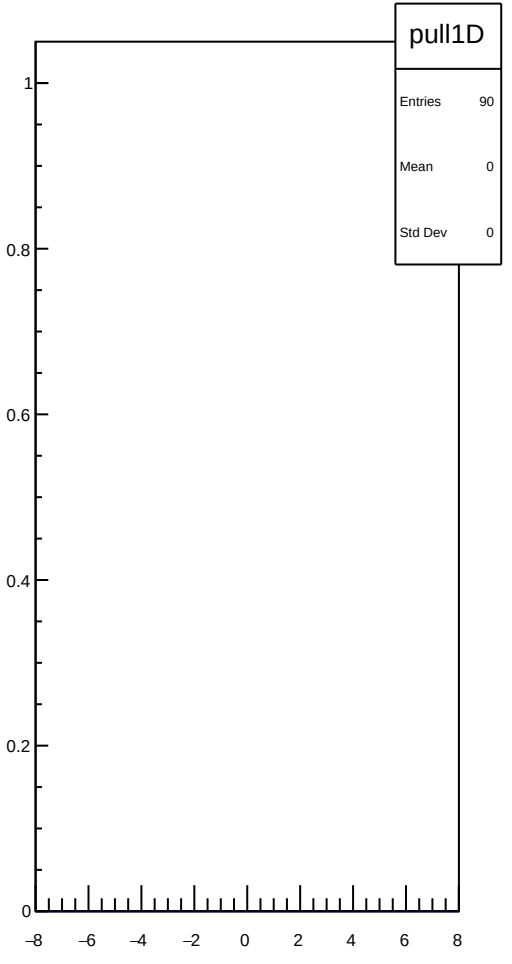

yield_bpm1i02X_rms vs run
χ² / ndf 1.296e+04 / 89
p0 0.01326 ± 9.971e–06
0.02
0.018
0.016
0.014
0.012

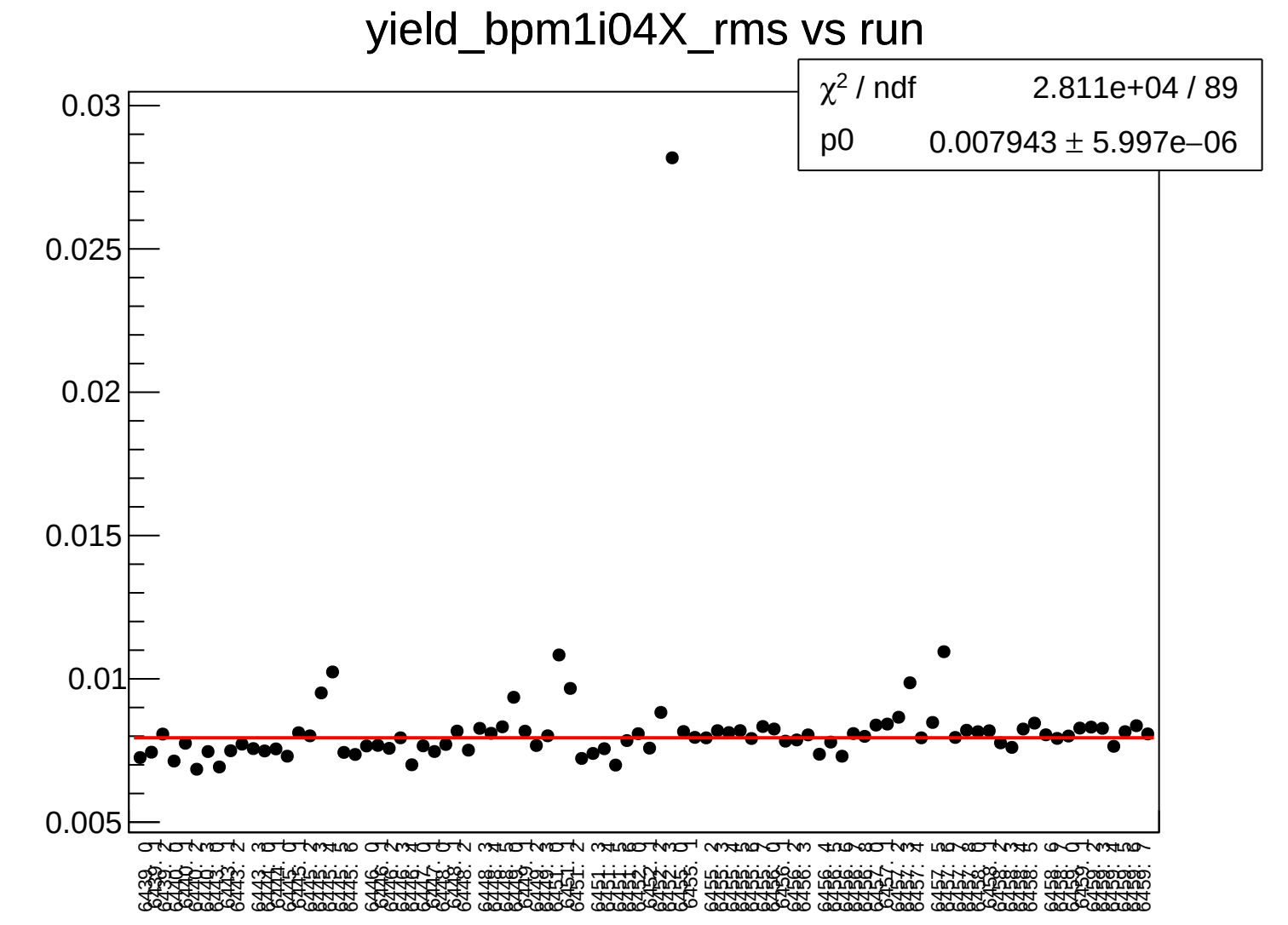

yield_bpm1i02Y_mean vs run
χ² / ndf 5.595e+06 / 89
p0 1.735 ± 9.588e−06
1.76
1.74
1.72
1.7
1.68
1.66
pull
Entries 90
Mean 2013
Std Dev 0
400
200
0
−200
−400
−600
−800

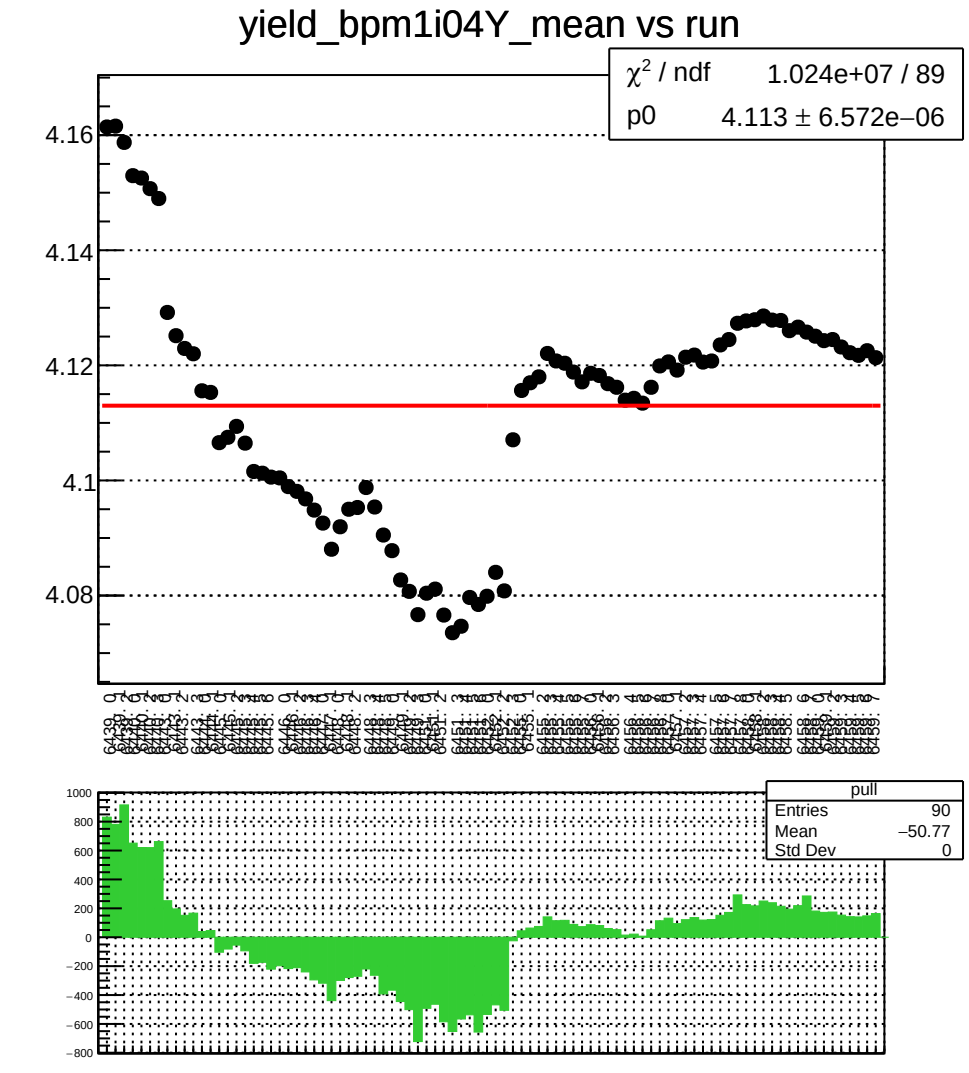

pull1D
Entries 90
Mean 1.253
Std Dev 4.754
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

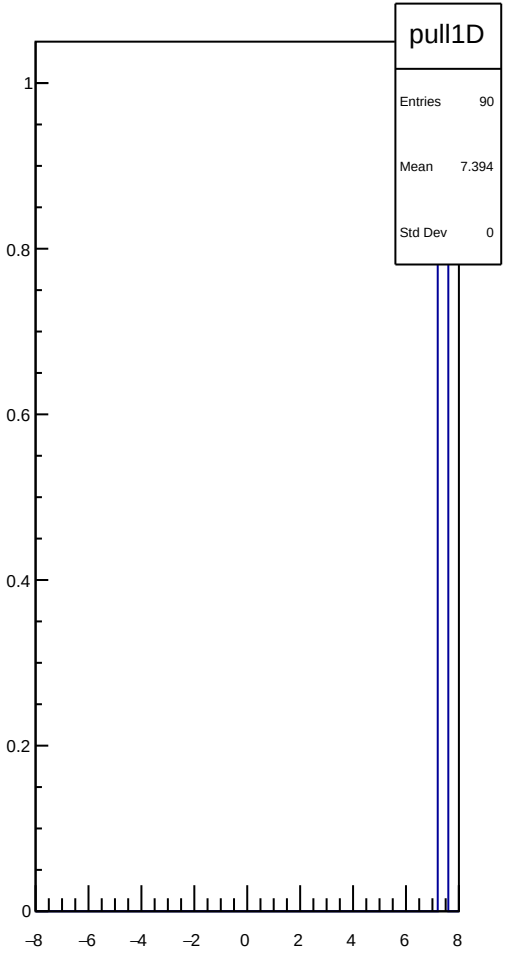

yield_bpm1i02Y_rms vs run
χ² / ndf 8887 / 89
p0 0.009028 ± 6.78e–06
0.014
0.013
0.012
0.011
0.01
0.009
0.008


yield_bpm1i04X_mean vs run
χ² / ndf 1.889e+07 / 89
p0 1.787 ± 8.482e−06
1.84
1.82
1.8
1.78
1.76
1.74
pull
Entries 90
Mean 758.8
Std Dev 0
600
400
200
0
−200
−400
−600
−800

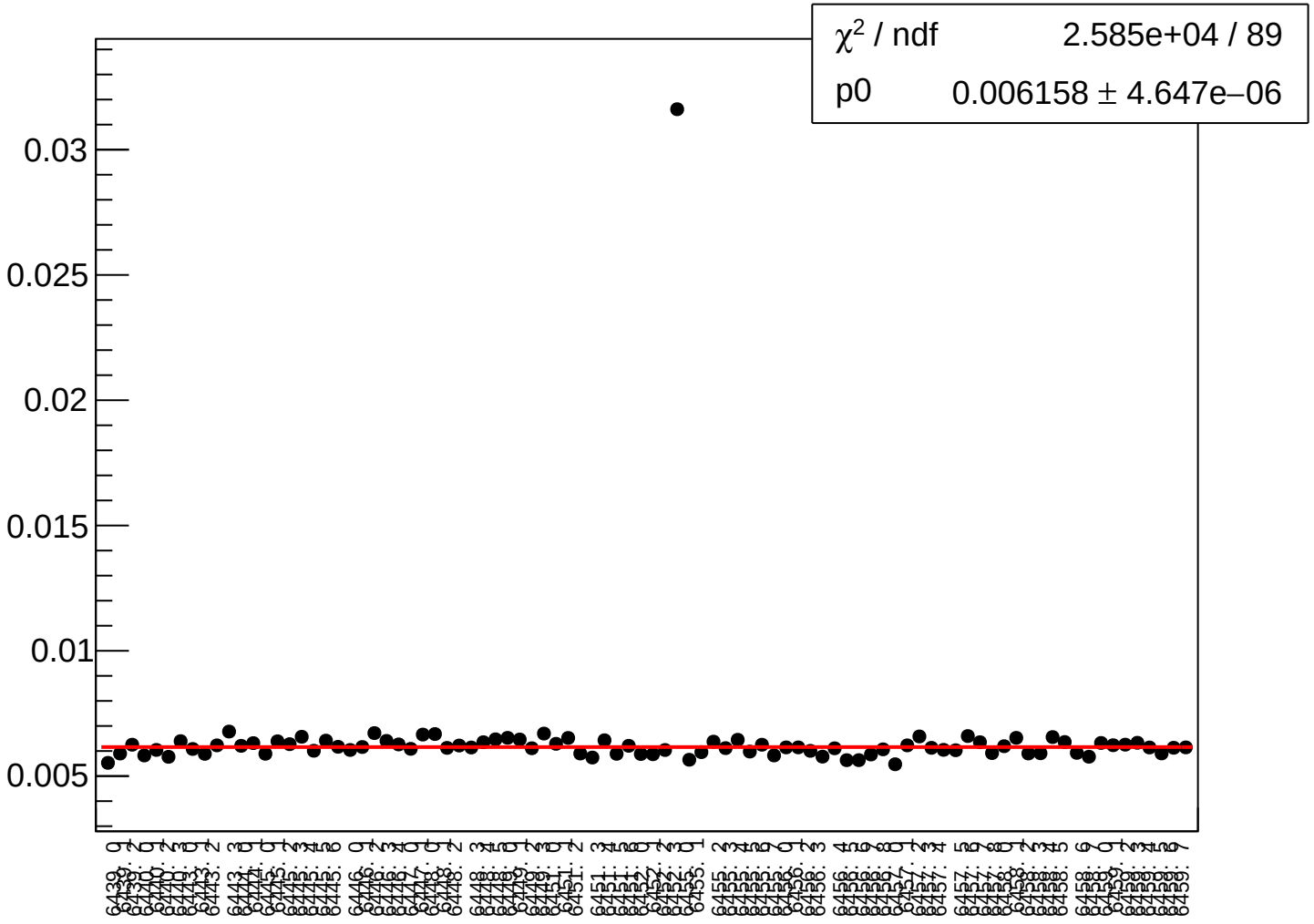

pull1D
Entries 90
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

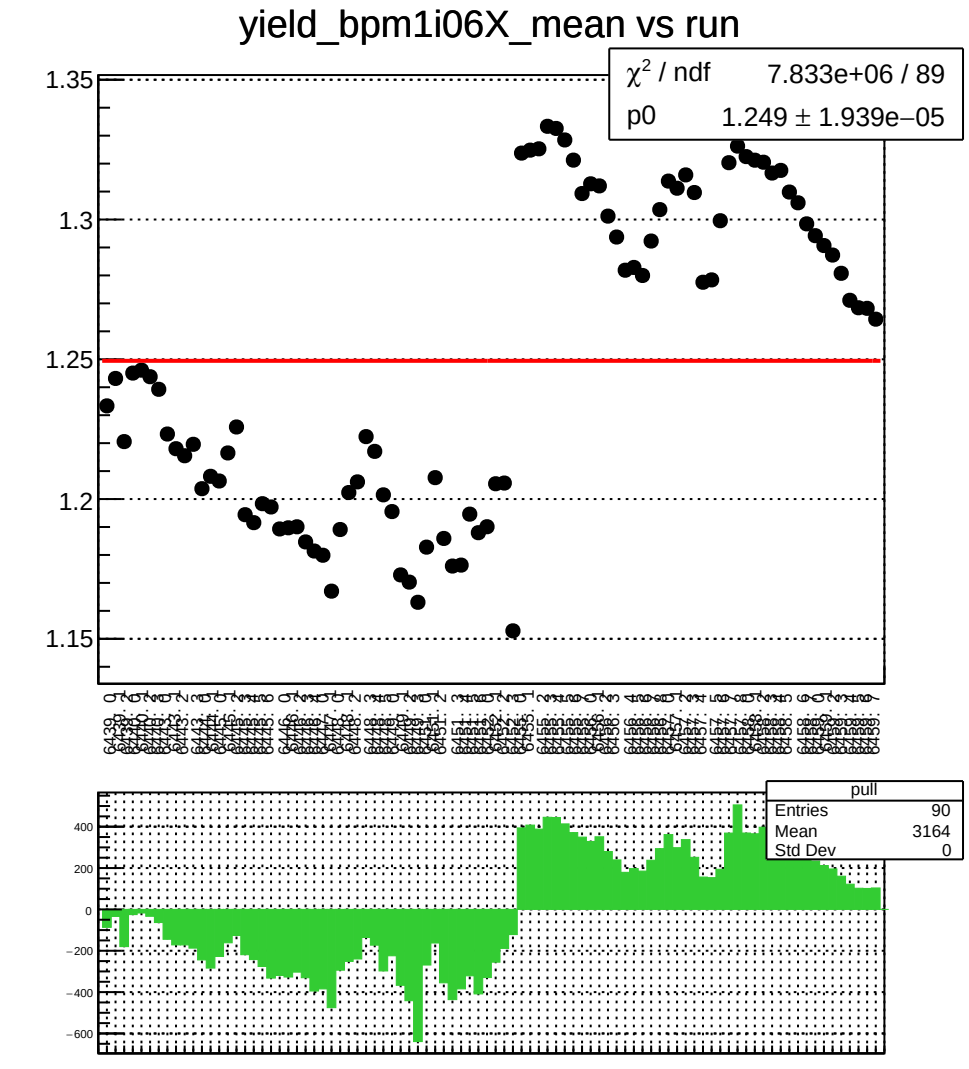

yield_bpm1i04X_rms vs run
χ^2 / ndf 2.811e+04 / 89
p0 0.007943 ± 5.997e−06
0.03
0.025
0.02
0.015
0.01
0.005

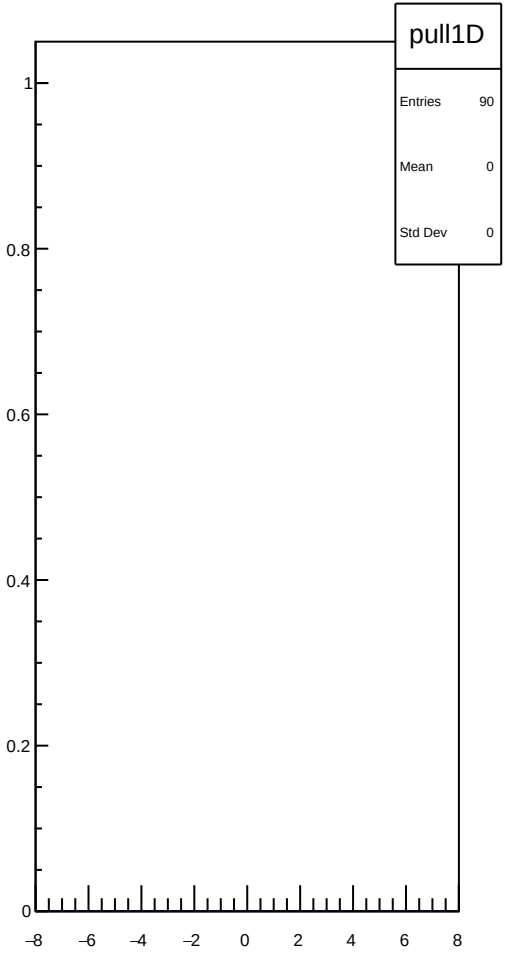

yield_bpm1i04Y_mean vs run
χ² / ndf 1.024e+07 / 89
p0 4.113 ± 6.572e−06
4.16
4.14
4.12
4.1
4.08
pull
Entries 90
Mean −50.77
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600
−800

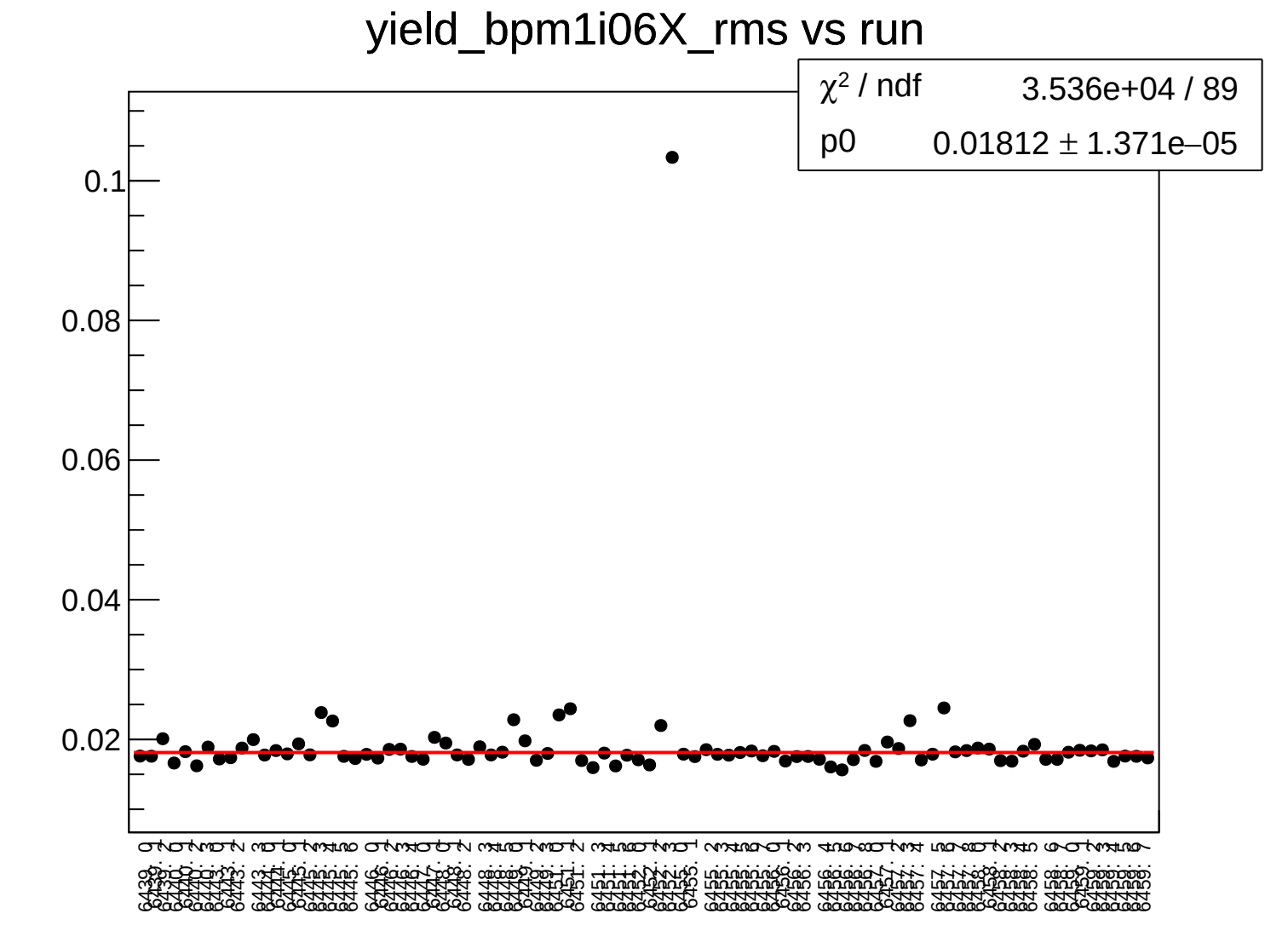

pull1D
Entries 90
Mean 7.394
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

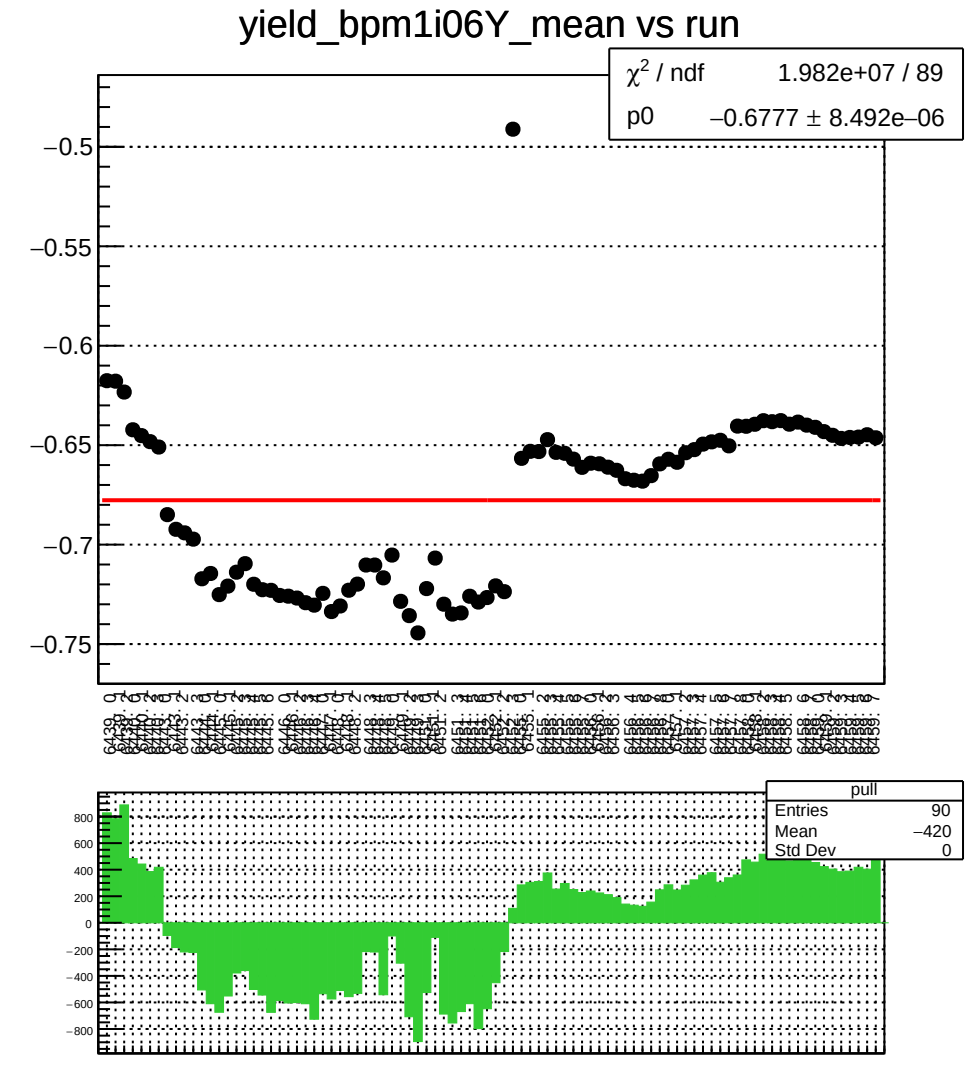
yield_bpm1i04Y_rms vs run

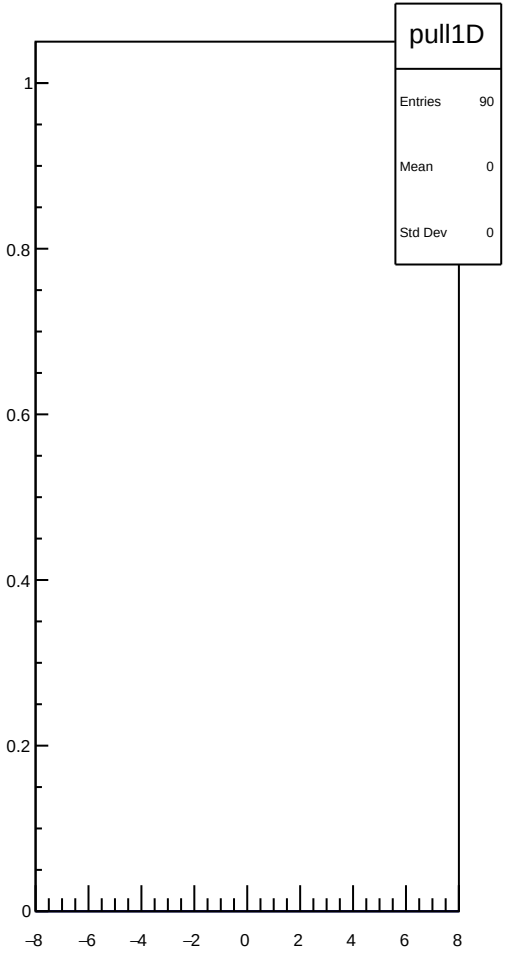


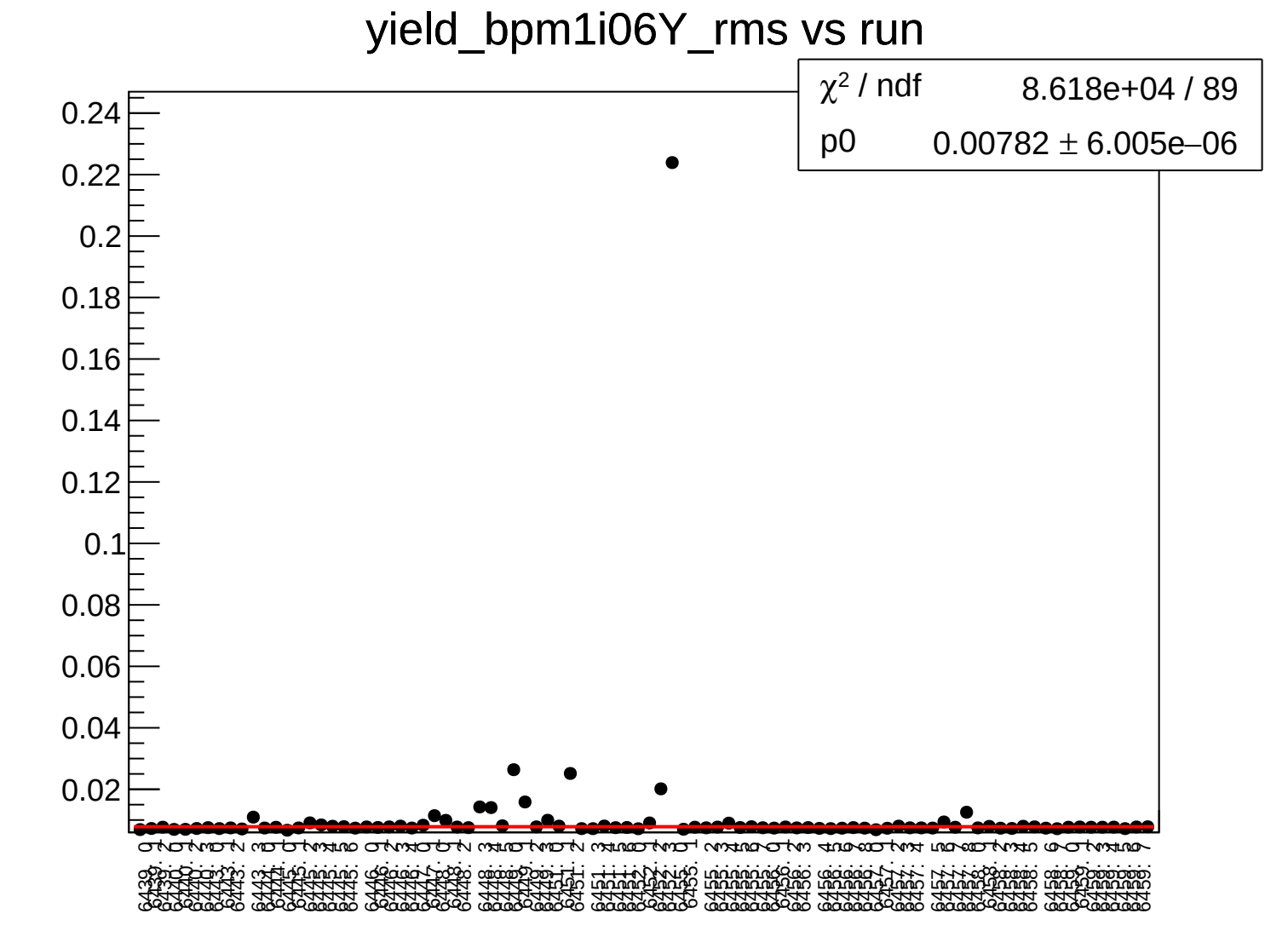

yield_bpm1i06X_mean vs run
χ² / ndf 7.833e+06 / 89
p0 1.249 ± 1.939e−05
1.35
1.3
1.25
1.2
1.15
pull
Entries 90
Mean 3164
Std Dev 0
400
200
0
−200
−400
−600

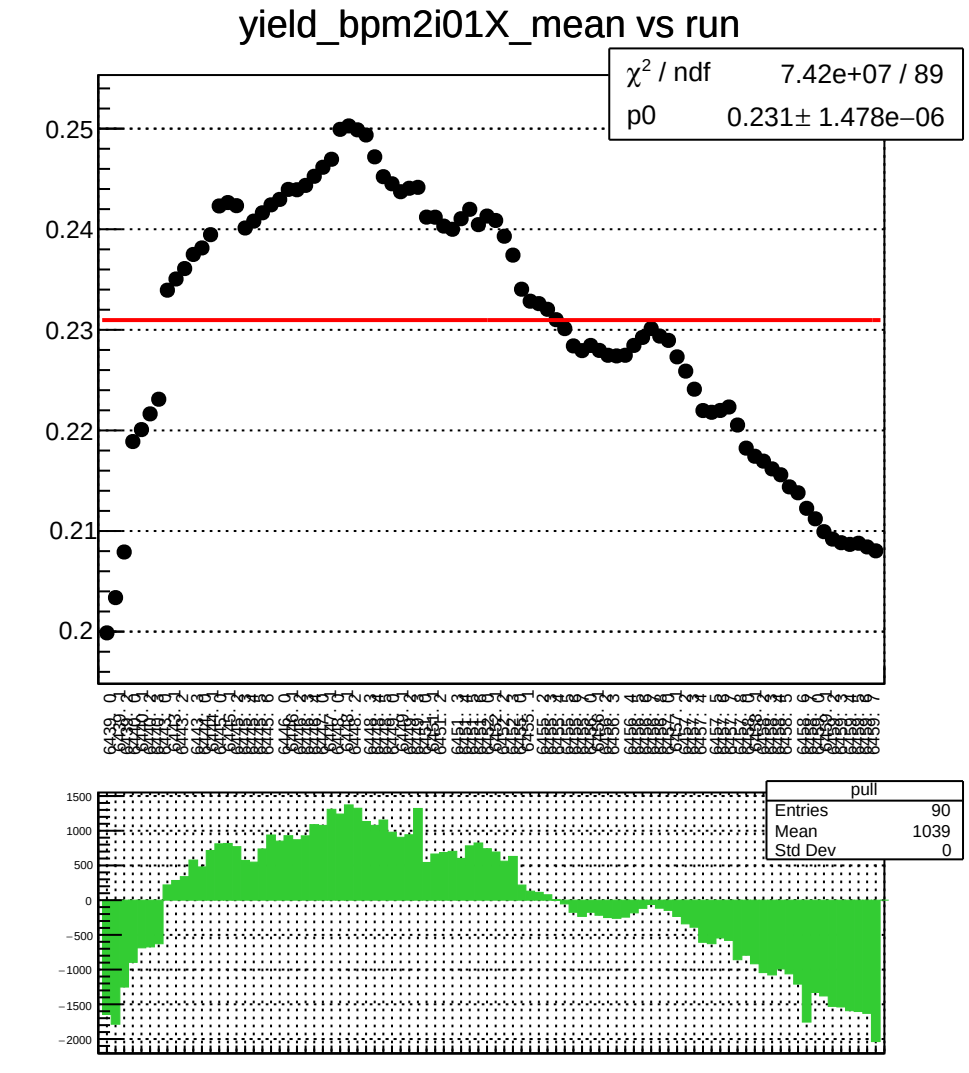

pull1D
Entries 90
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

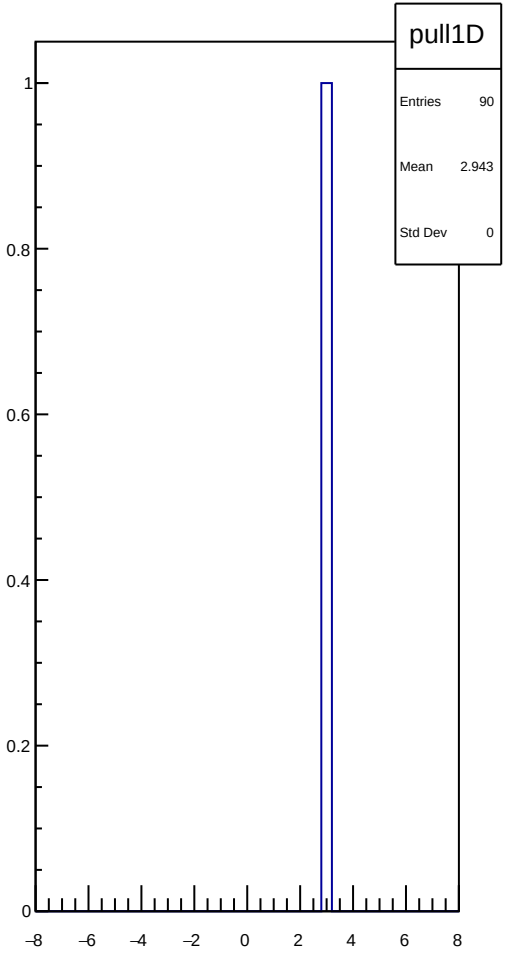

yield_bpm1i06X_rms vs run
χ² / ndf 3.536e+04 / 89
p0 0.01812 ± 1.371e−05
0.1
0.08
0.06
0.04
0.02

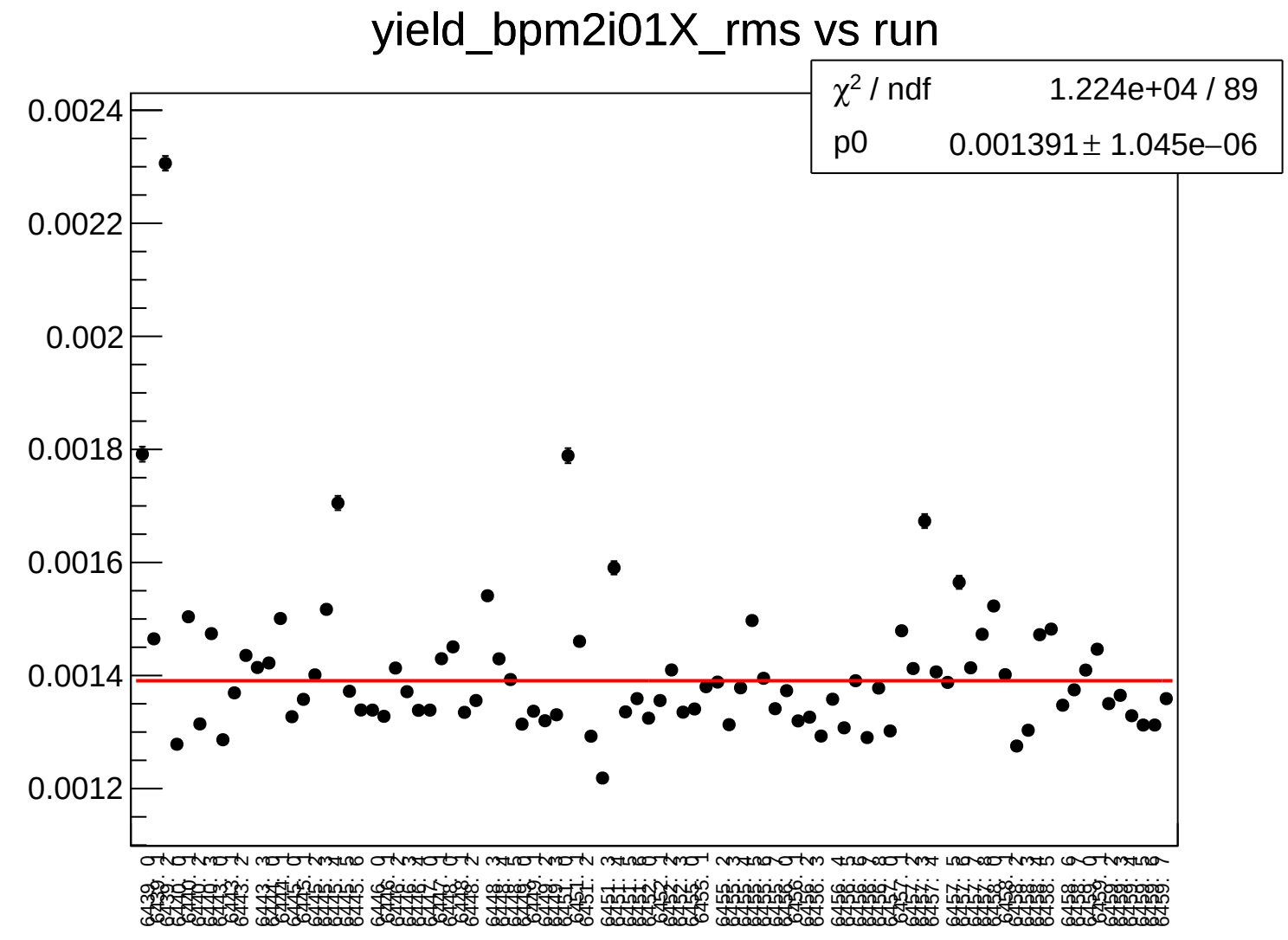

yield_bpm1i06Y_mean vs run
χ² / ndf 1.982e+07 / 89
p0 −0.6777 ± 8.492e−06
−0.5
−0.55
−0.6
−0.65
−0.7
−0.75
pull
Entries 90
Mean −420
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800

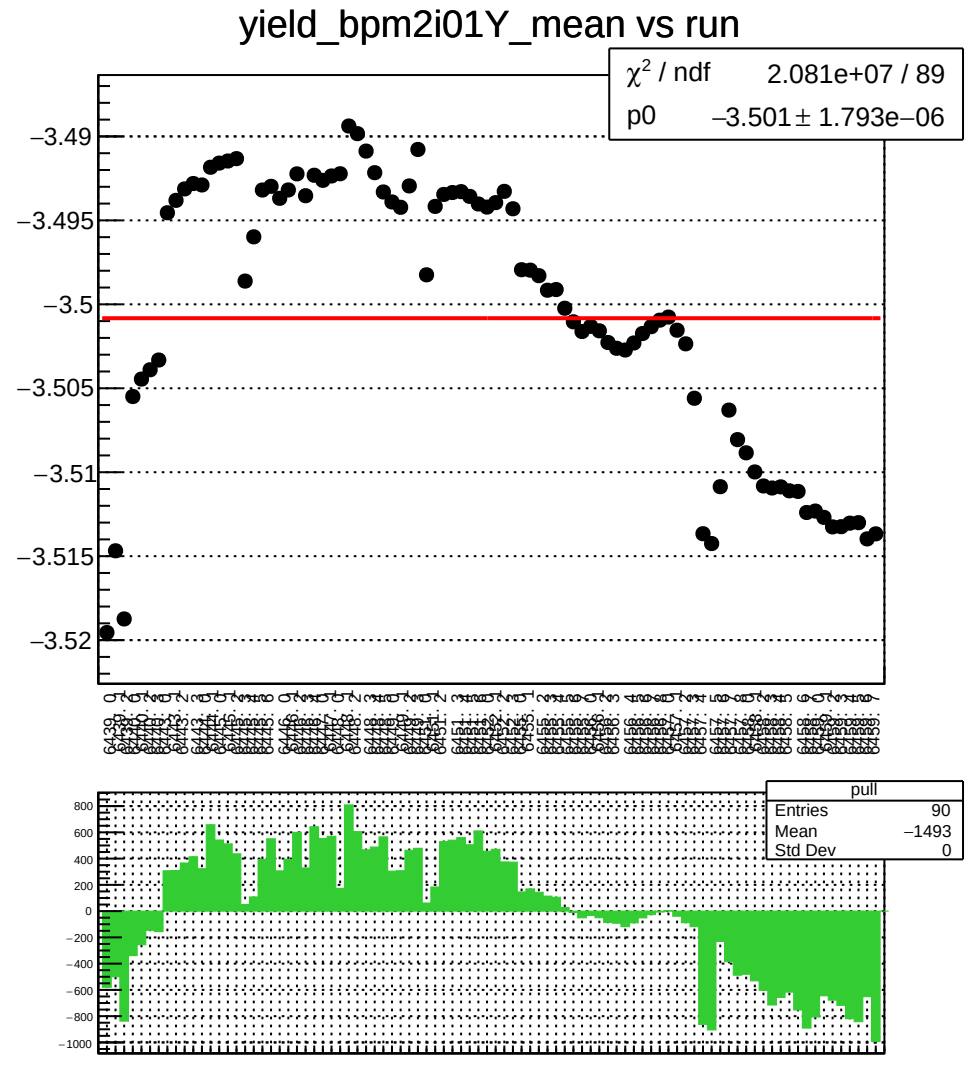

pull1D
Entries 90
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

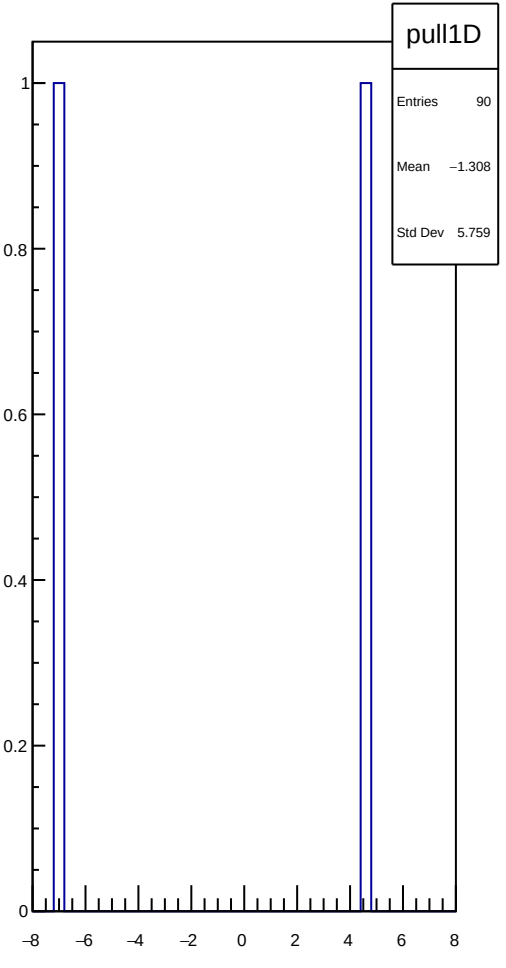

yield_bpm1i06Y_rms vs run
χ² / ndf 8.618e+04 / 89
p0 0.00782 ± 6.005e–06
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

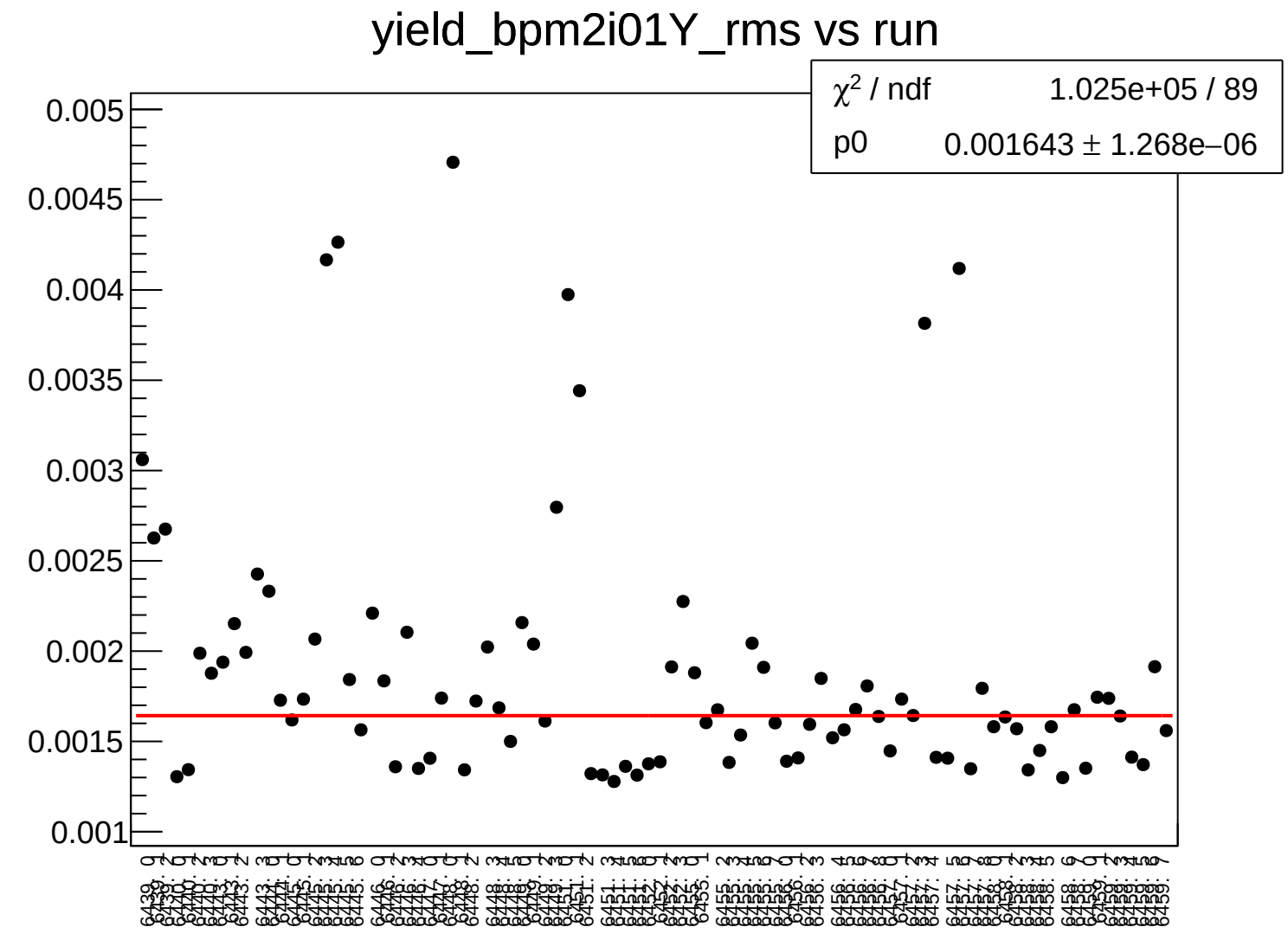

yield_bpm2i01X_mean vs run
χ² / ndf 7.42e+07 / 89
p0 0.231± 1.478e−06
0.25
0.24
0.23
0.22
0.21
0.2
pull
Entries 90
Mean 1039
Std Dev 0
1500
1000
500
0
−500
−1000
−1500
−2000

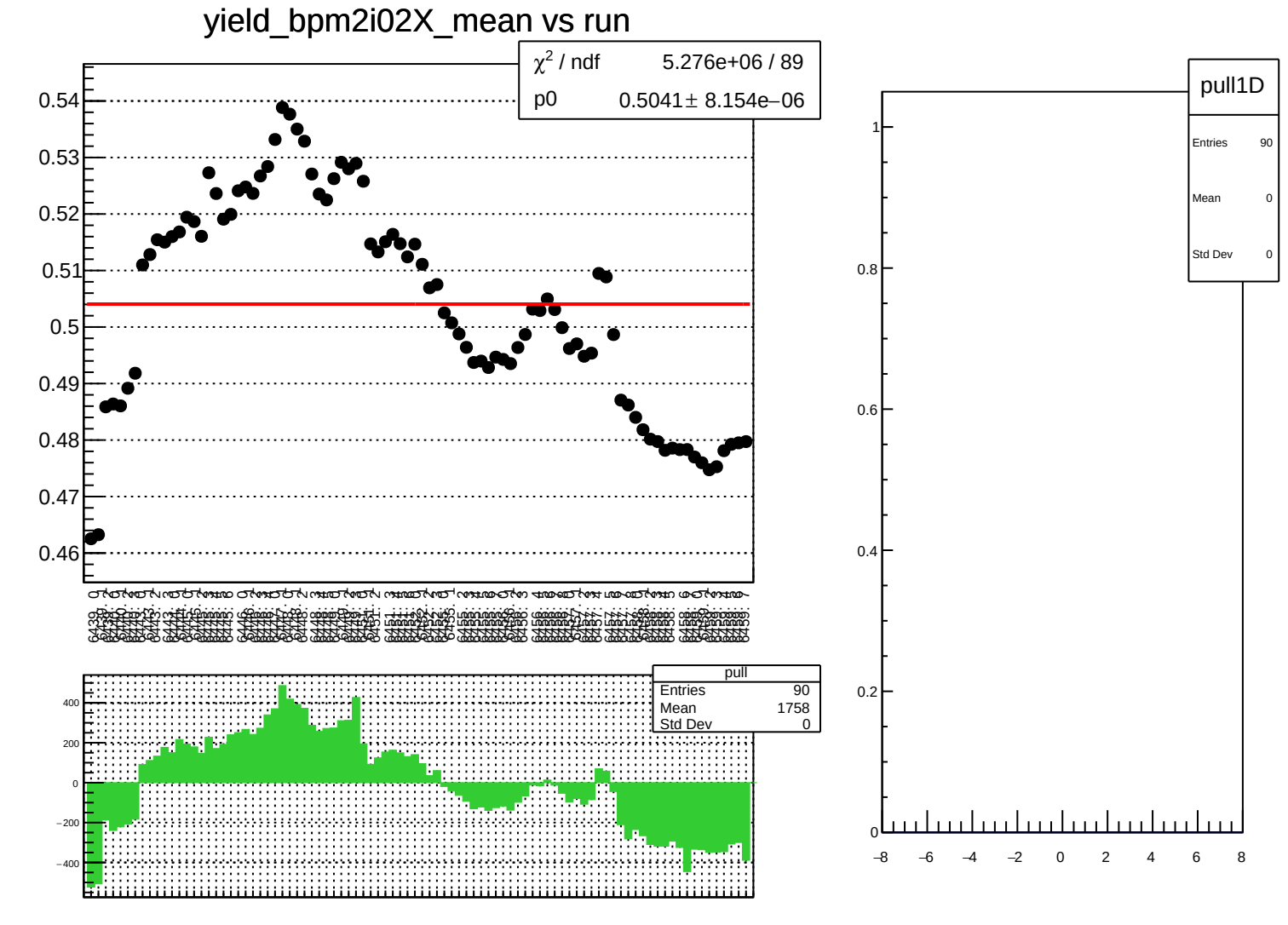

pull1D
Entries 90
Mean 2.943
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

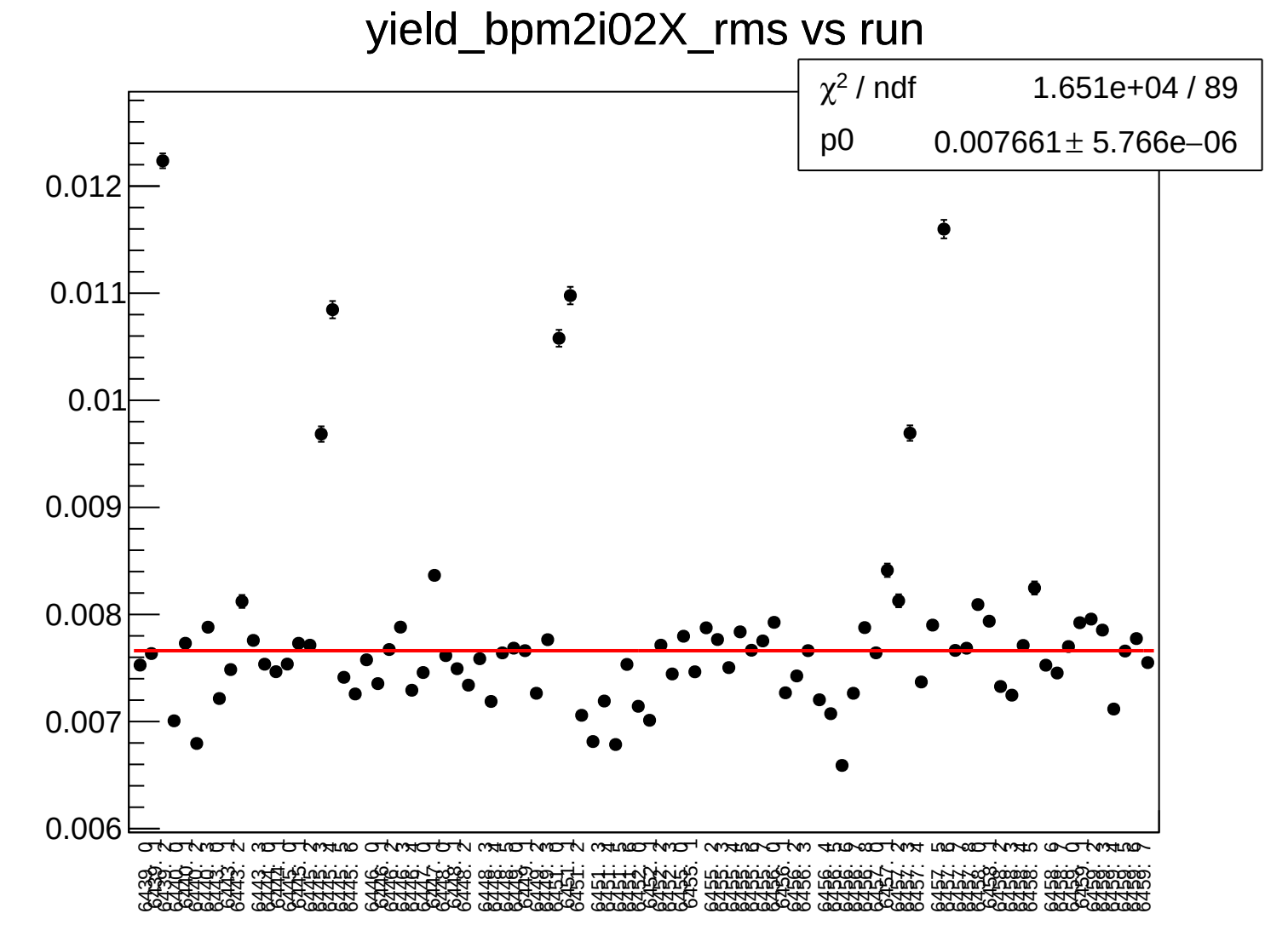

yield_bpm2i01X_rms vs run
χ² / ndf 1.224e+04 / 89
p0 0.001391 ± 1.045e−06
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012

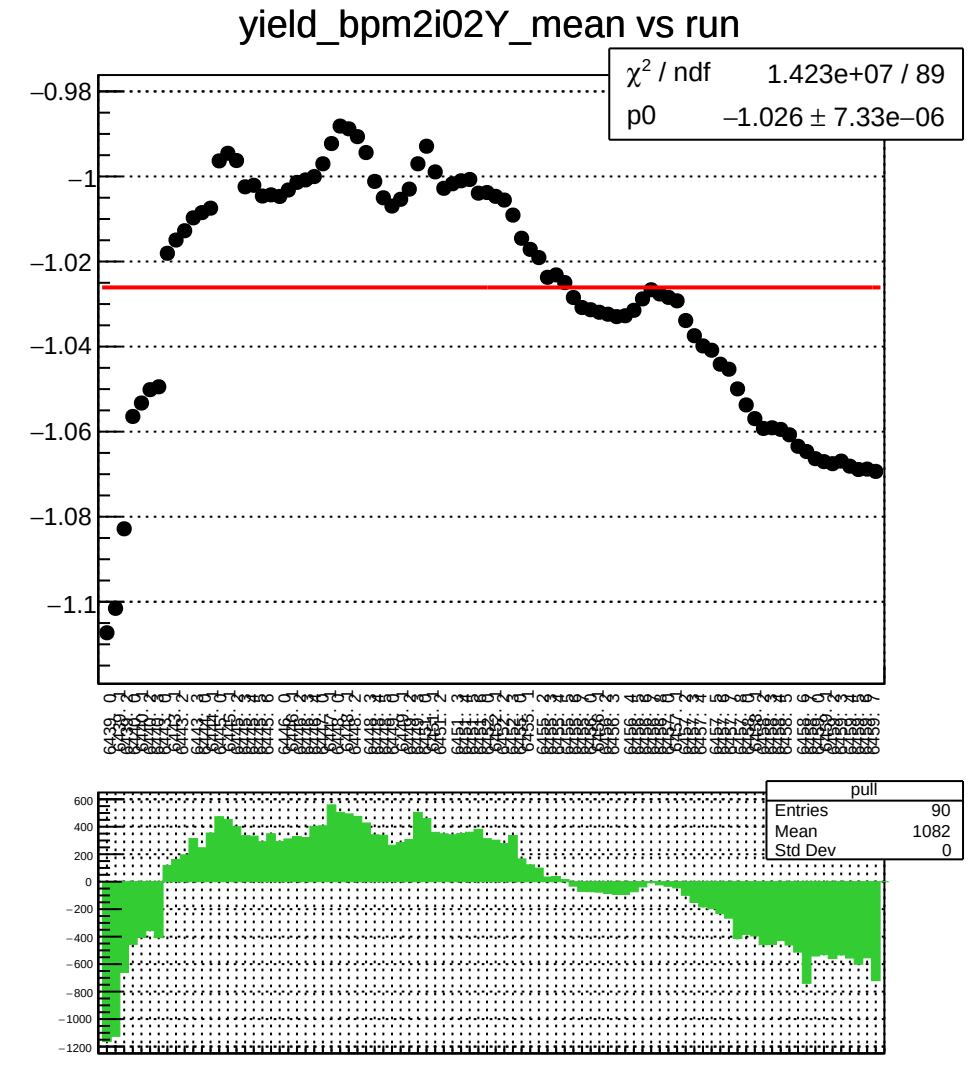

yield_bpm2i01Y_mean vs run
χ² / ndf 2.081e+07 / 89
p0 −3.501 ± 1.793e−06
−3.49
−3.495
−3.5
−3.505
−3.51
−3.515
−3.52
pull
Entries 90
Mean −1493
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800
−1000

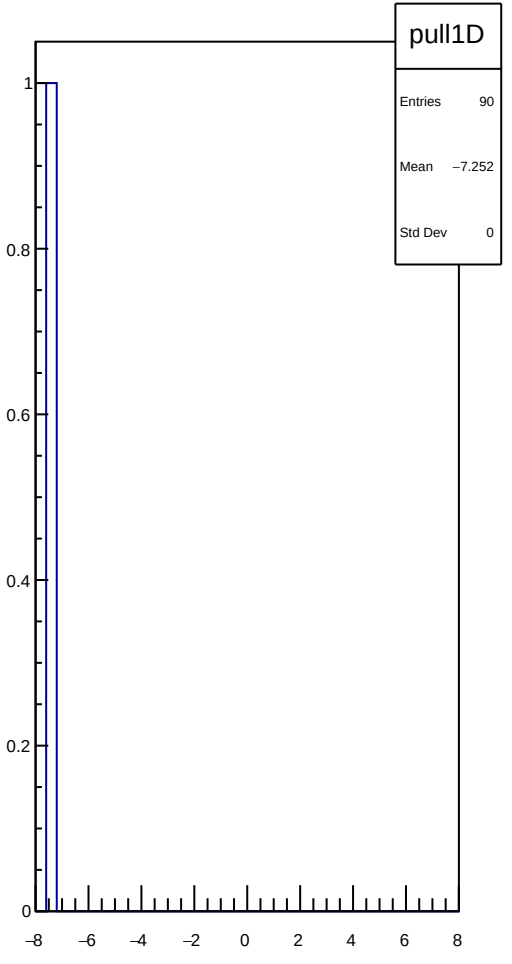

pull1D
Entries 90
Mean −1.308
Std Dev 5.759
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

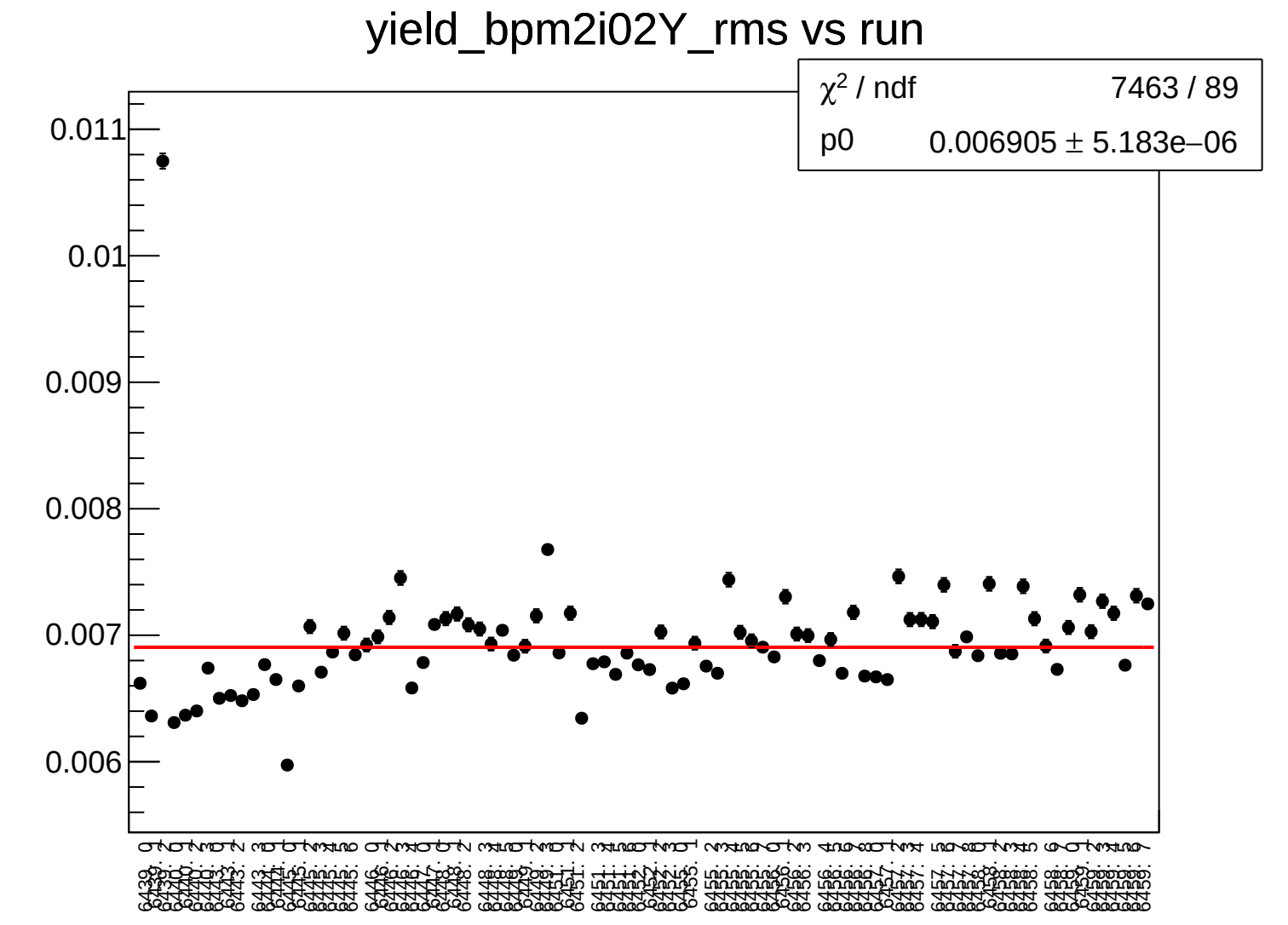

yield_bpm2i01Y_rms vs run
χ² / ndf 1.025e+05 / 89
p0 0.001643 ± 1.268e−06
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001

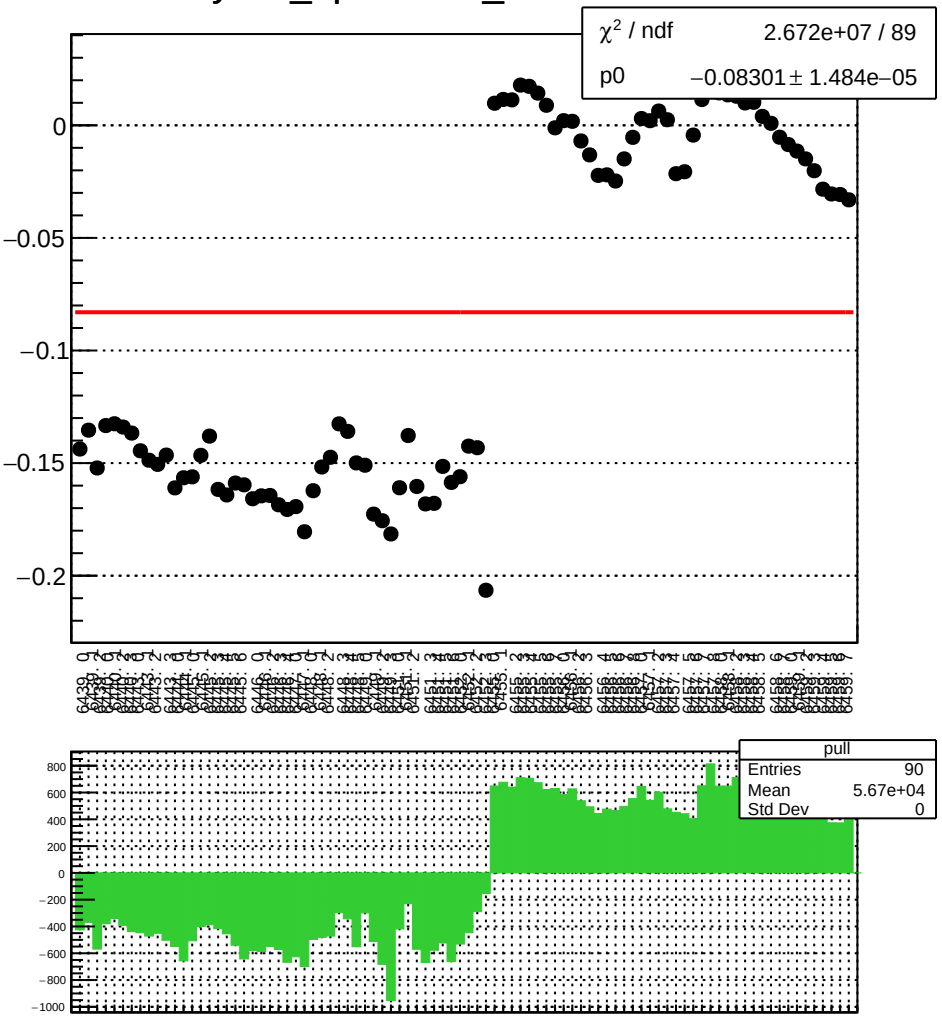

yield_bpm2i02X_mean vs run
χ² / ndf 5.276e+06 / 89
p0 0.5041 ± 8.154e−06
0.54
0.53
0.52
0.51
0.5
0.49
0.48
0.47
0.46
pull
Entries 90
Mean 1758
Std Dev 0
400
200
0
−200
−400
pull1D
Entries 90
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

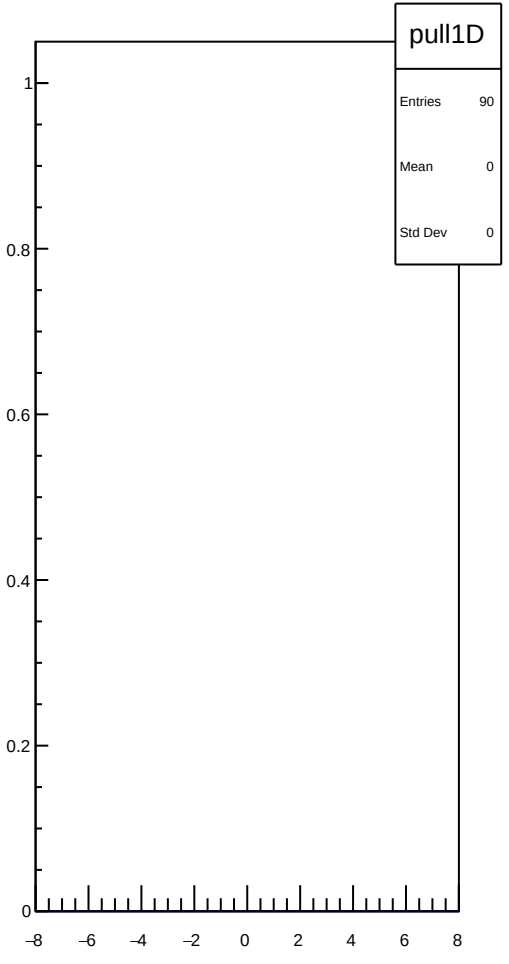

yield_bpm2i02X_rms vs run
χ² / ndf 1.651e+04 / 89
p0 0.007661 ± 5.766e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006

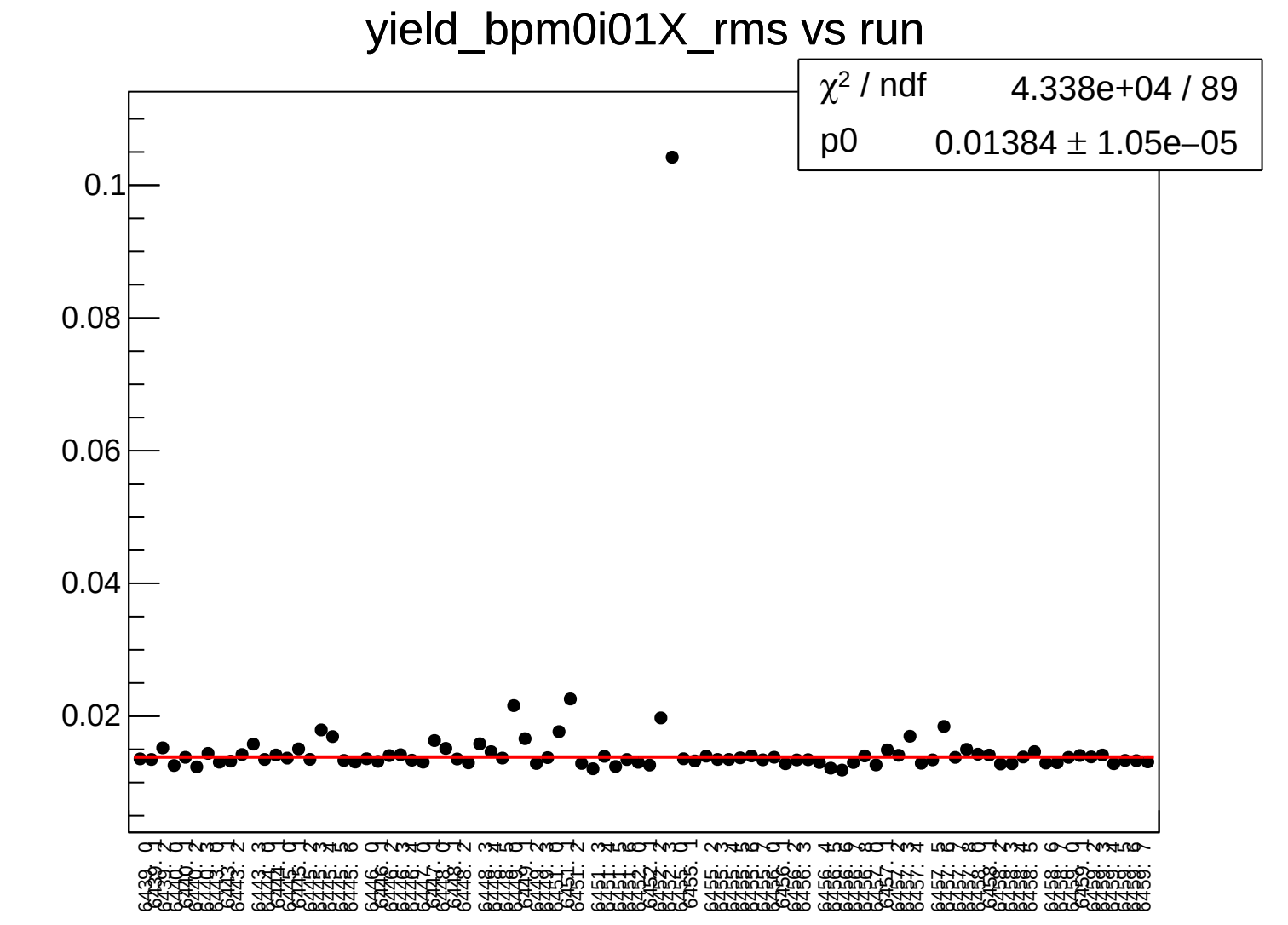

yield_bpm2i02Y_mean vs run
χ² / ndf 1.423e+07 / 89
p0 −1.026 ± 7.33e−06
−0.98
−1
−1.02
−1.04
−1.06
−1.08
−1.1
pull
Entries 90
Mean 1082
Std Dev 0
600
400
200
0
−200
−400
−600
−800
−1000
−1200

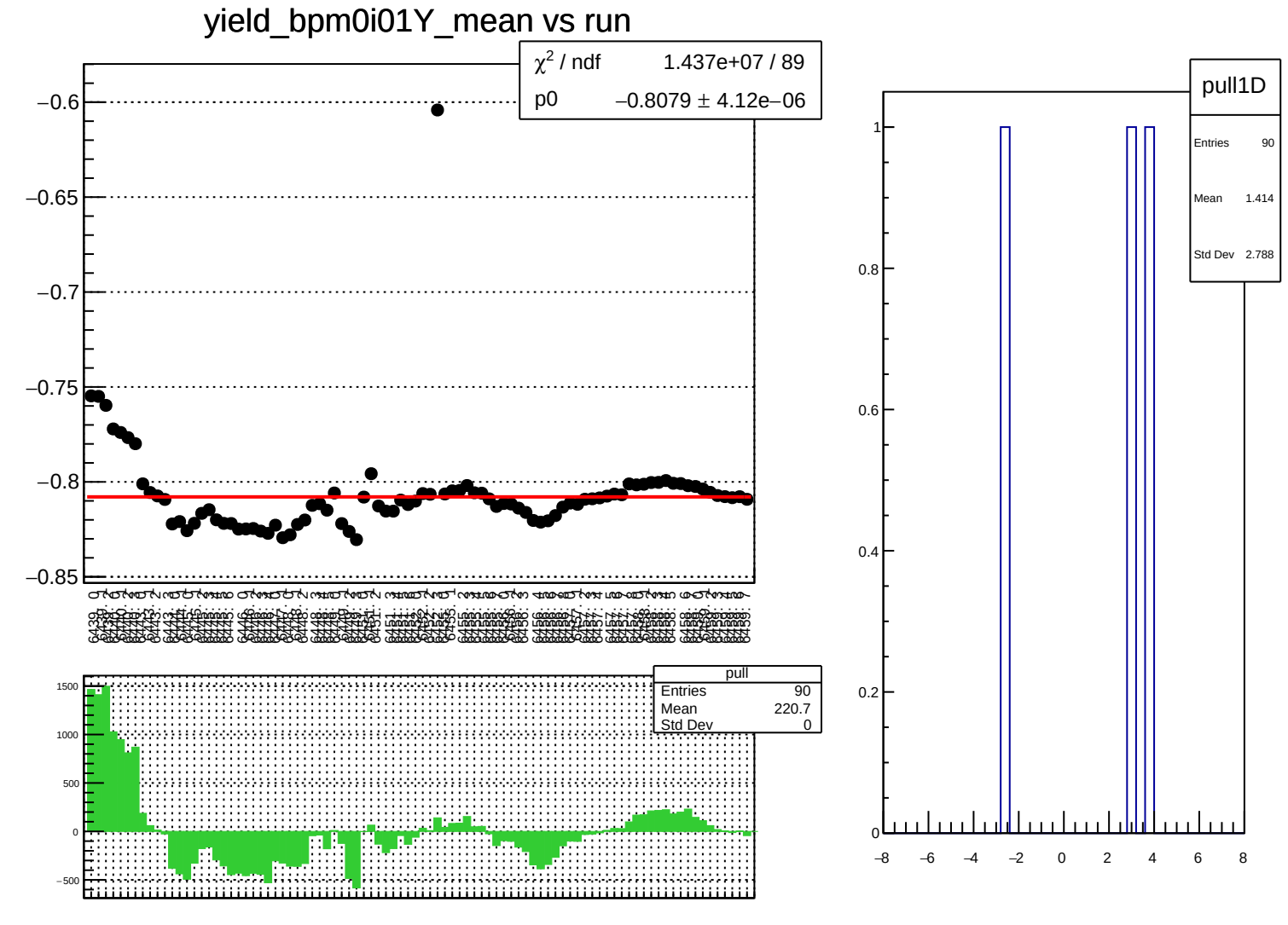

pull1D
Entries 90
Mean −7.252
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

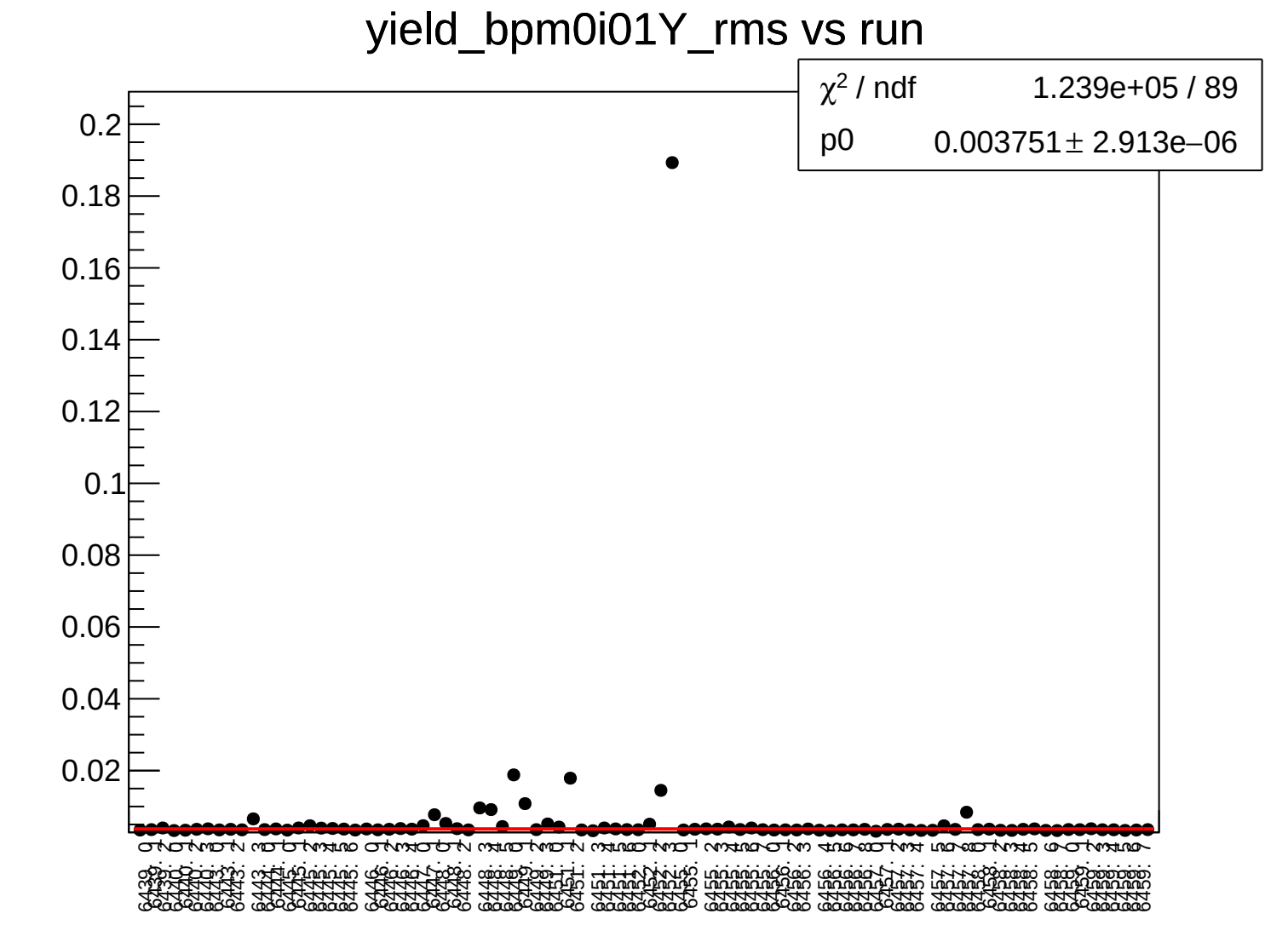

yield_bpm2i02Y_rms vs run
χ^2 / ndf 7463 / 89
p0 0.006905 ± 5.183e−06
0.011
0.01
0.009
0.008
0.007
0.006

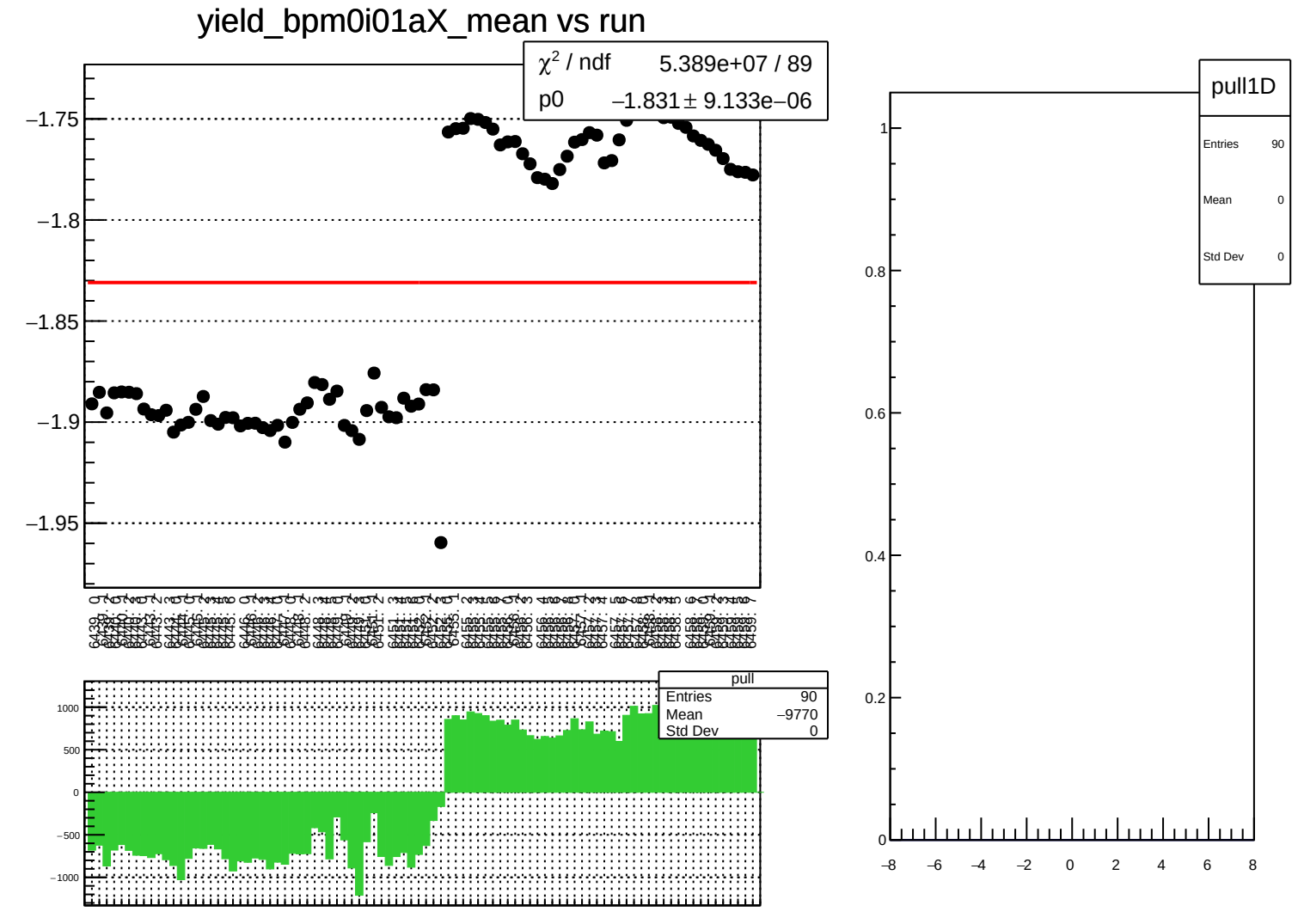

yield_bpm0i01X_mean vs run
χ² / ndf 2.672e+07 / 89
p0 −0.08301 ± 1.484e−05
0
−0.05
−0.1
−0.15
−0.2
pull
Entries 90
Mean 5.67e+04
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800
−1000

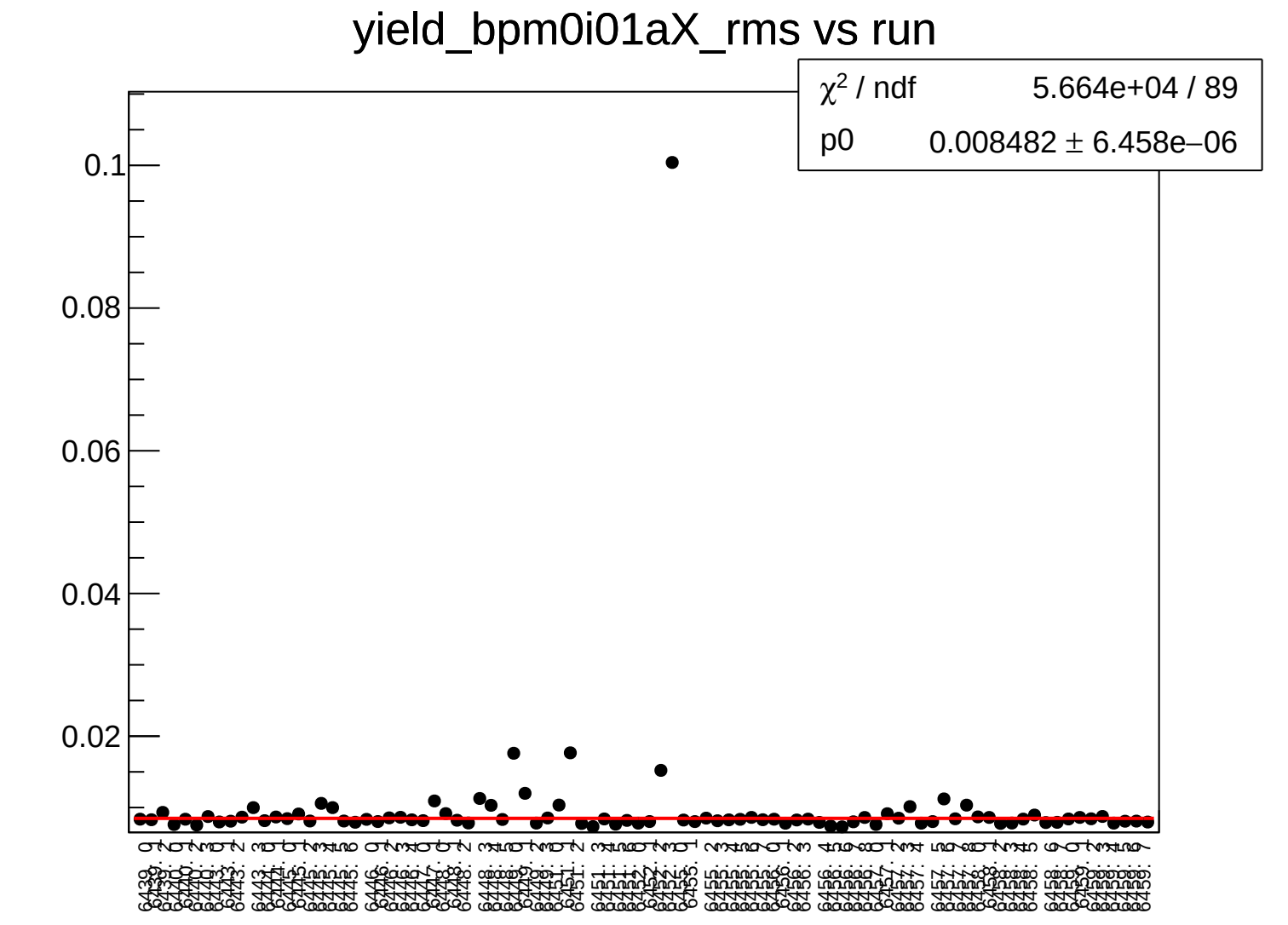

pull1D
Entries 90
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

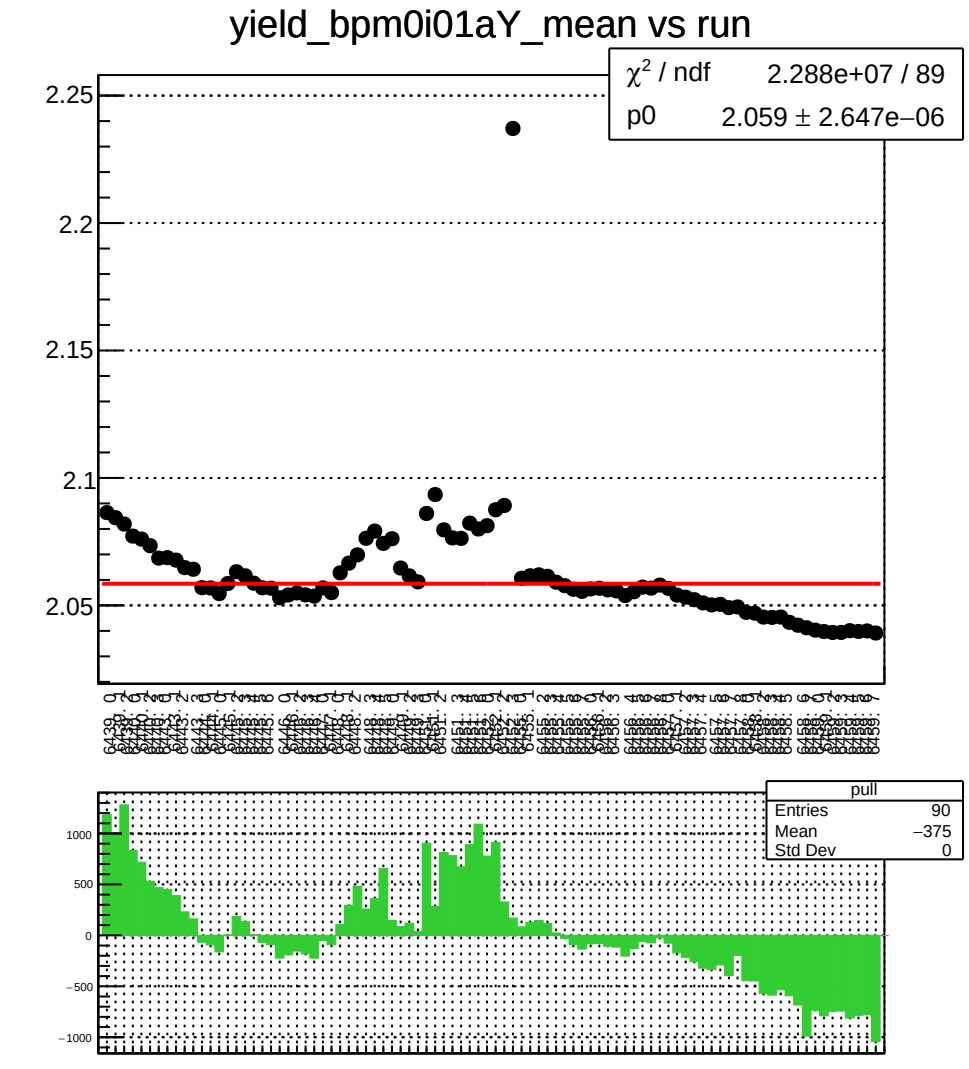

yield_bpm0i01X_rms vs run
χ² / ndf 4.338e+04 / 89
p0 0.01384 ± 1.05e−05
0.1
0.08
0.06
0.04
0.02

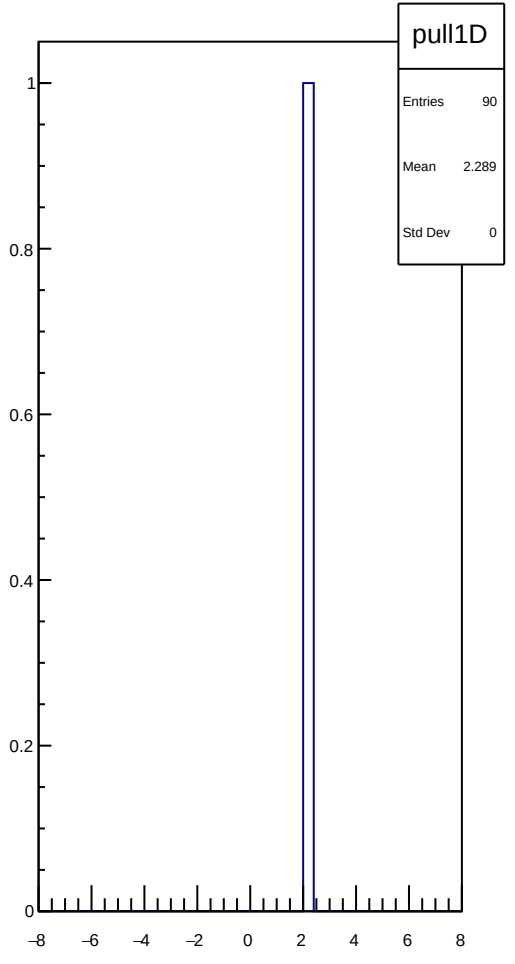

yield_bpm0i01Y_mean vs run
χ² / ndf 1.437e+07 / 89
p0 −0.8079 ± 4.12e−06
−0.6
−0.65
−0.7
−0.75
−0.8
−0.85
pull
Entries 90
Mean 220.7
Std Dev 0
1500
1000
500
0
−500
pull1D
Entries 90
Mean 1.414
Std Dev 2.788
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

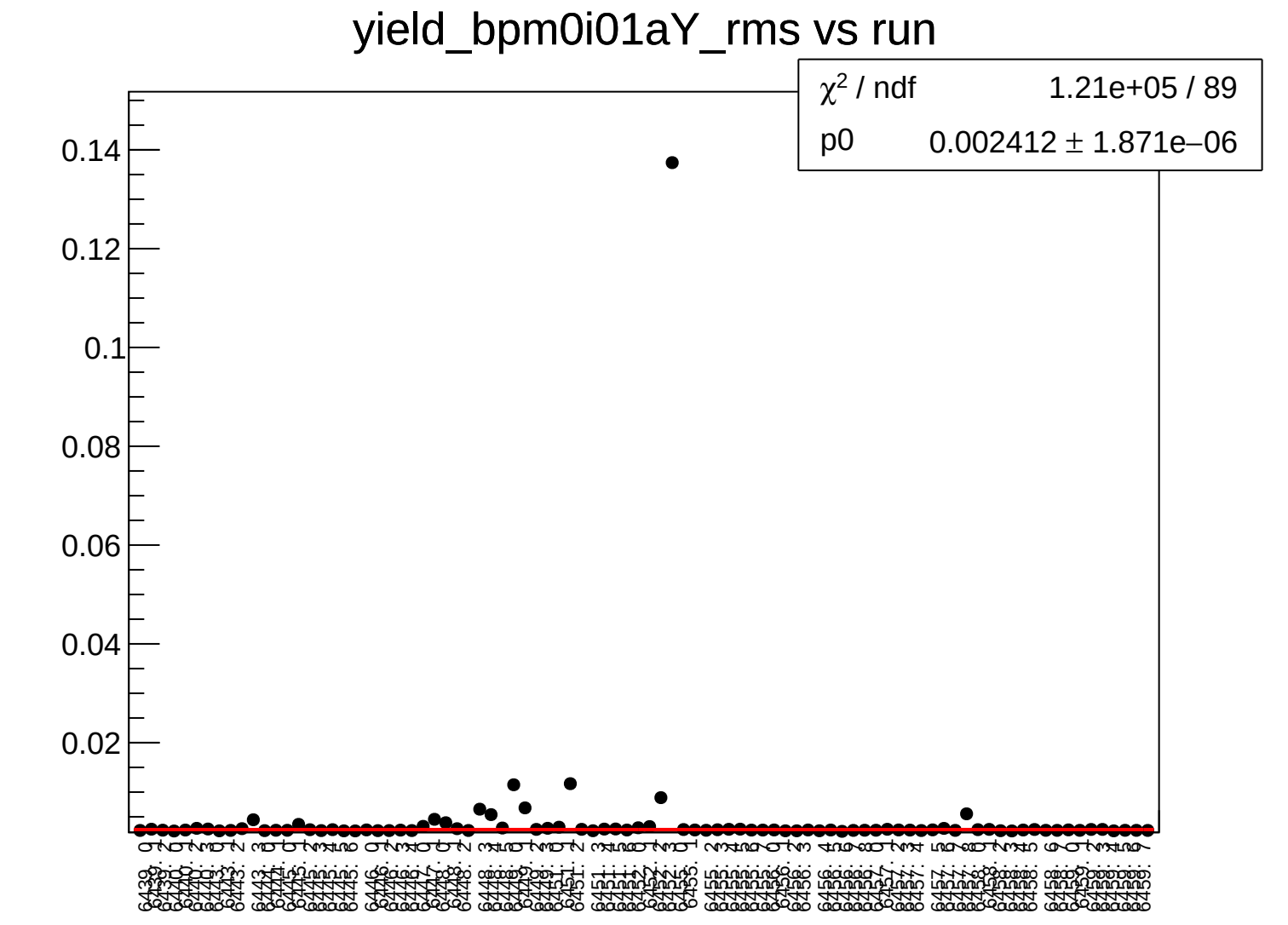

yield_bpm0i01Y_rms vs run
χ² / ndf 1.239e+05 / 89
p0 0.003751 ± 2.913e−06
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

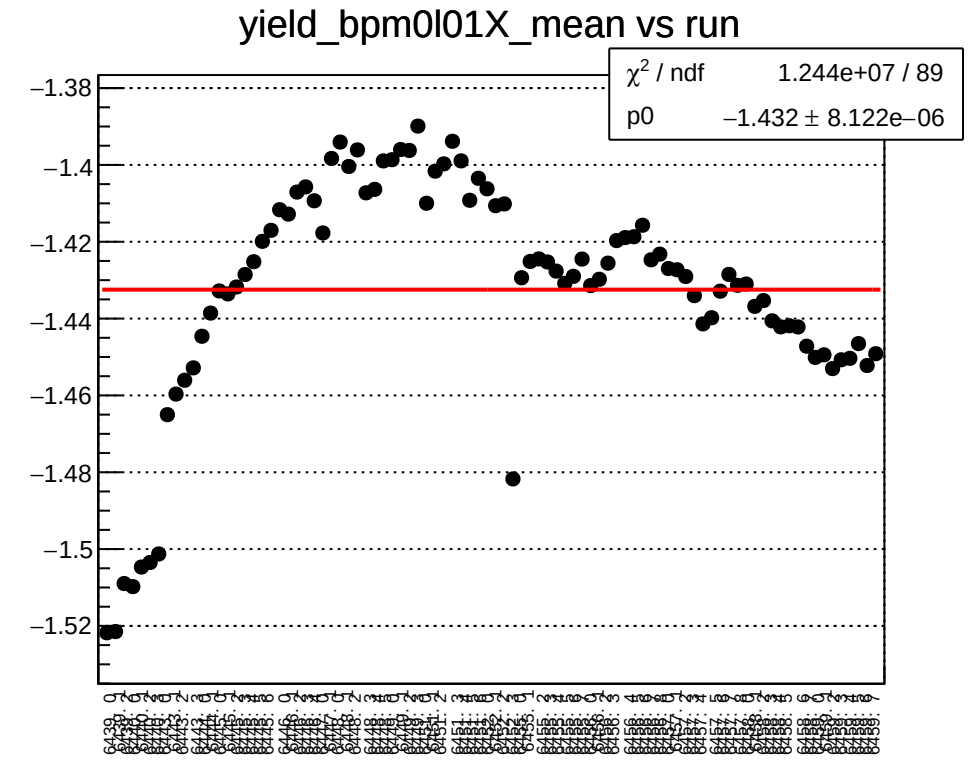

yield_bpm0i01aX_mean vs run
χ² / ndf 5.389e+07 / 89
p0 −1.831 ± 9.133e−06
−1.75
−1.8
−1.85
−1.9
−1.95
pull
Entries 90
Mean −9770
Std Dev 0
1000
500
0
−500
−1000
pull1D
Entries 90
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

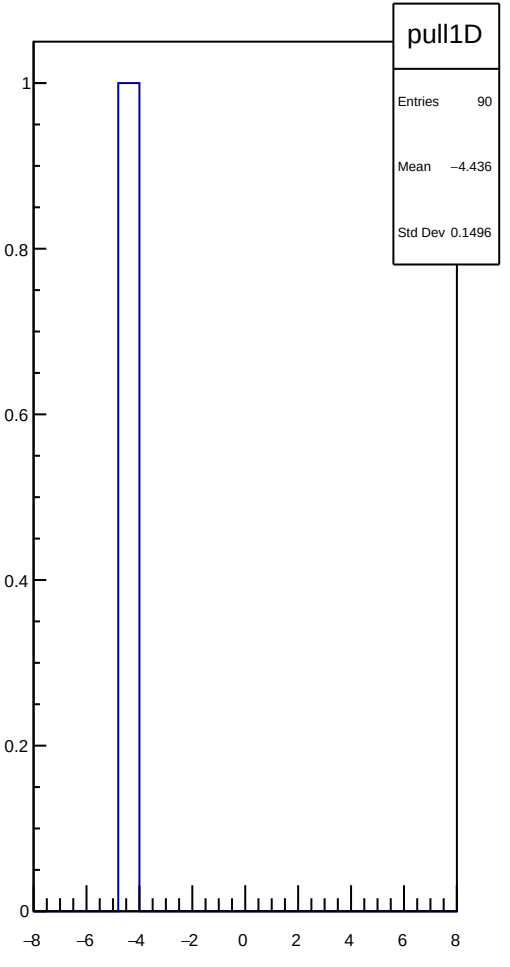

yield_bpm0i01aX_rms vs run
χ² / ndf 5.664e+04 / 89
p0 0.008482 ± 6.458e−06
0.1
0.08
0.06
0.04
0.02

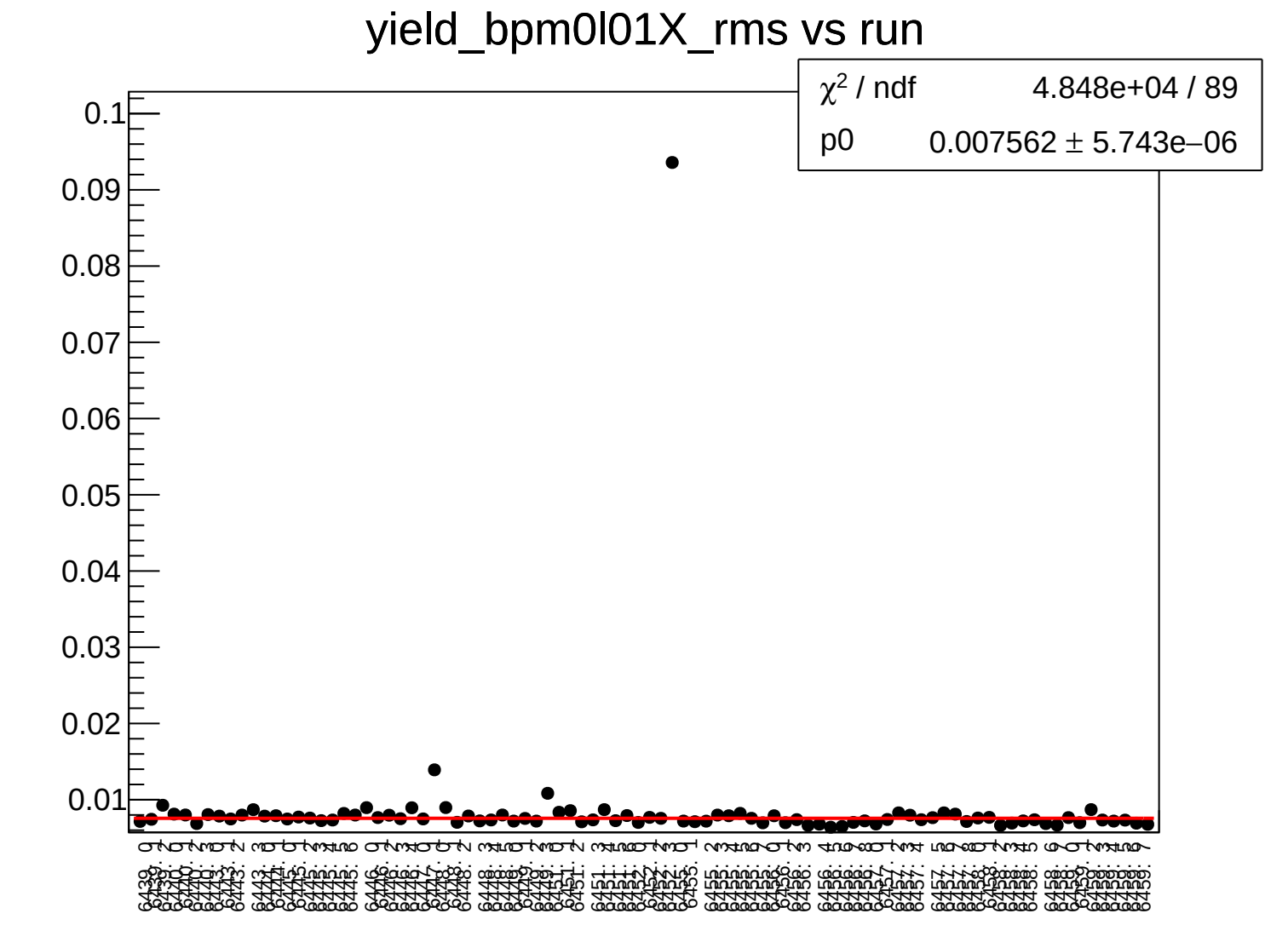

yield_bpm0i01aY_mean vs run
χ² / ndf 2.288e+07 / 89
p0 2.059 ± 2.647e−06
2.25
2.2
2.15
2.1
2.05
pull
Entries 90
Mean −375
Std Dev 0
1000
500
0
−500
−1000

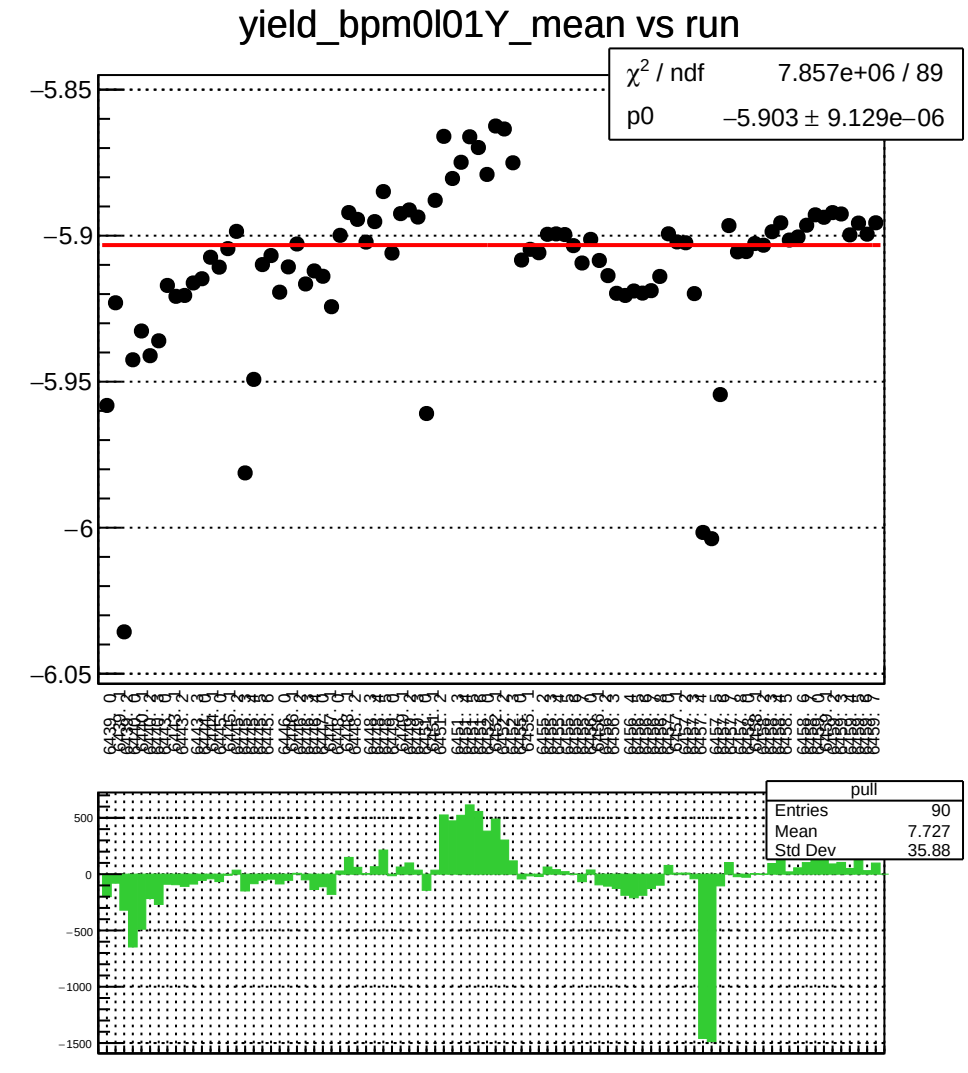

pull1D
Entries 90
Mean 2.289
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

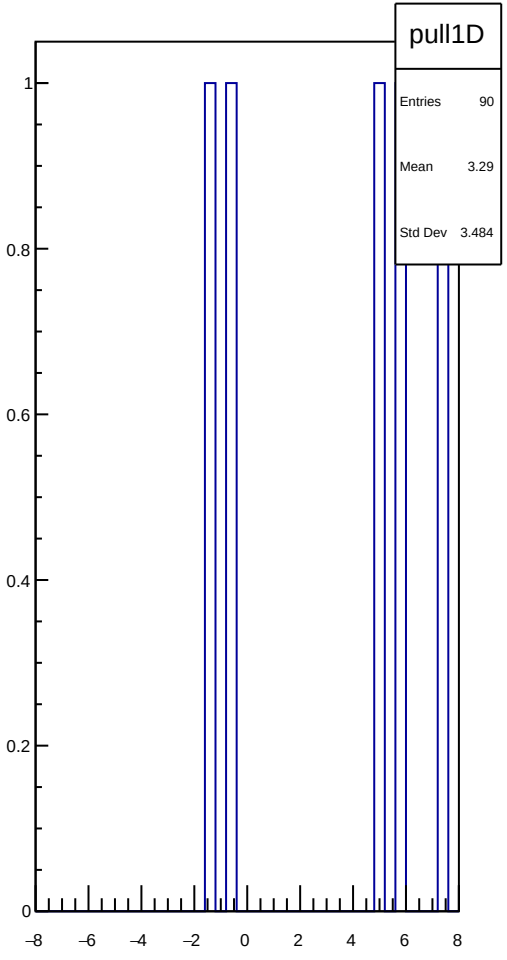

yield_bpm0i01aY_rms vs run
χ² / ndf 1.21e+05 / 89
p0 0.002412 ± 1.871e−06
0.14
0.12
0.1
0.08
0.06
0.04
0.02

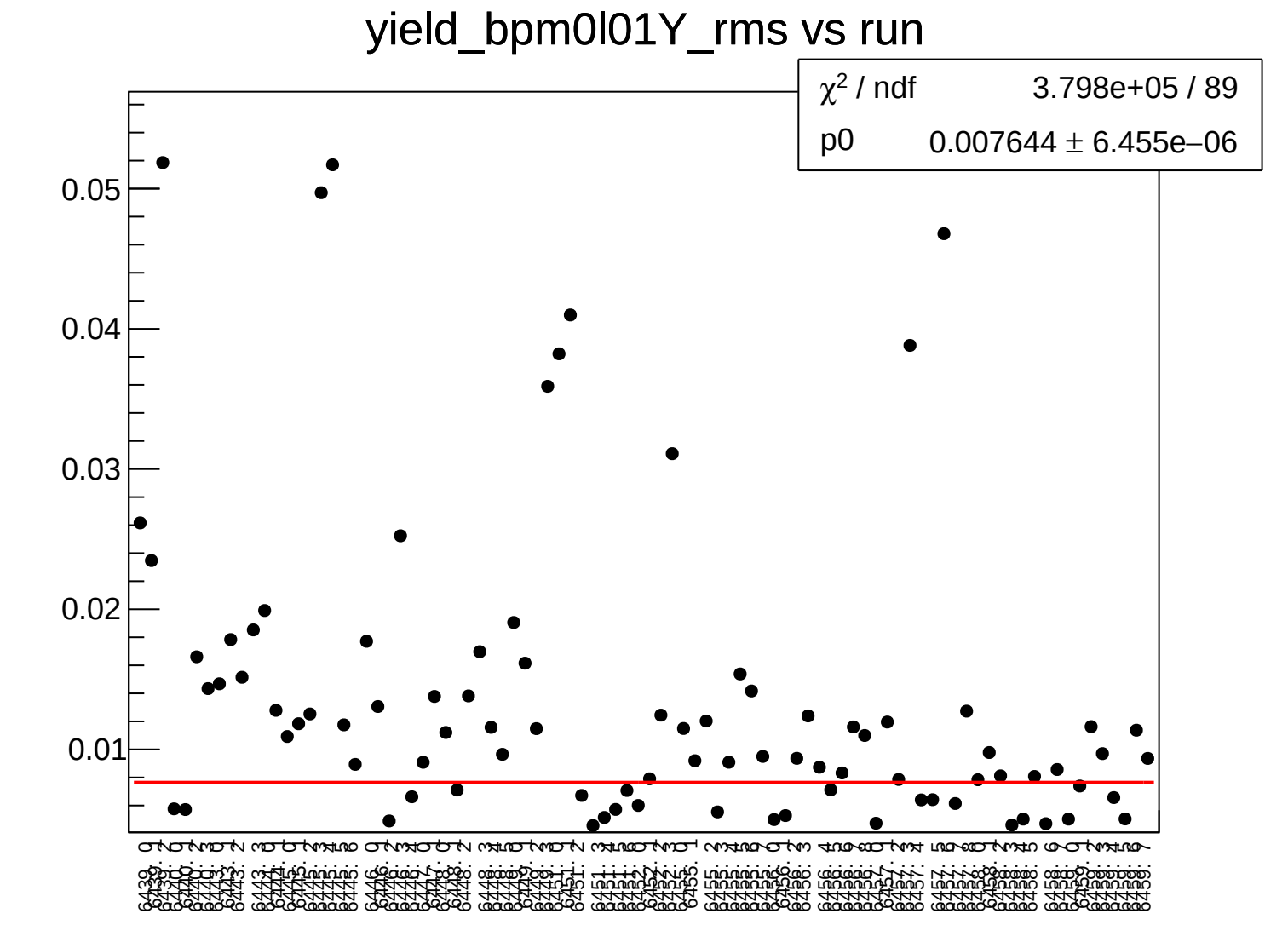

yield_bpm0l01X_mean vs run
χ² / ndf 1.244e+07 / 89
p0 −1.432 ± 8.122e−06
−1.38
−1.4
−1.42
−1.44
−1.46
−1.48
−1.5
−1.52
pull
Entries 90
Mean 340
Std Dev 0
600
400
200
0
−200
−400
−600
−800
−1000
−1200

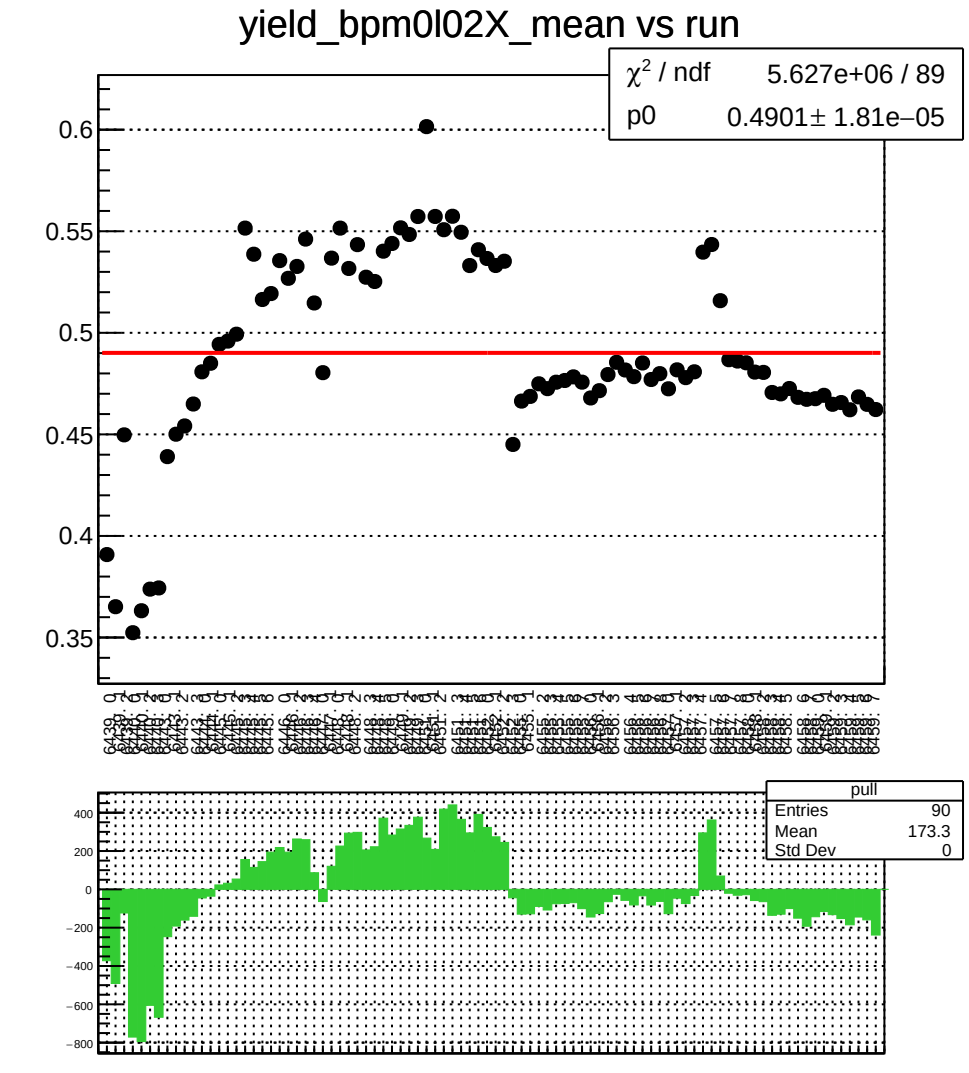

pull1D
Entries 90
Mean −4.436
Std Dev 0.1496
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

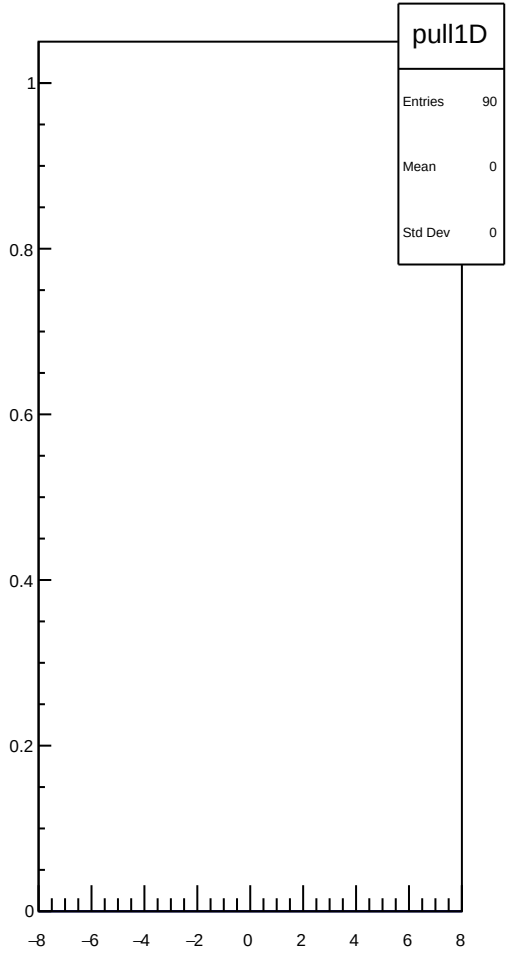

yield_bpm0l01X_rms vs run
χ^2 / ndf 4.848e+04 / 89
p0 0.007562 ± 5.743e−06
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

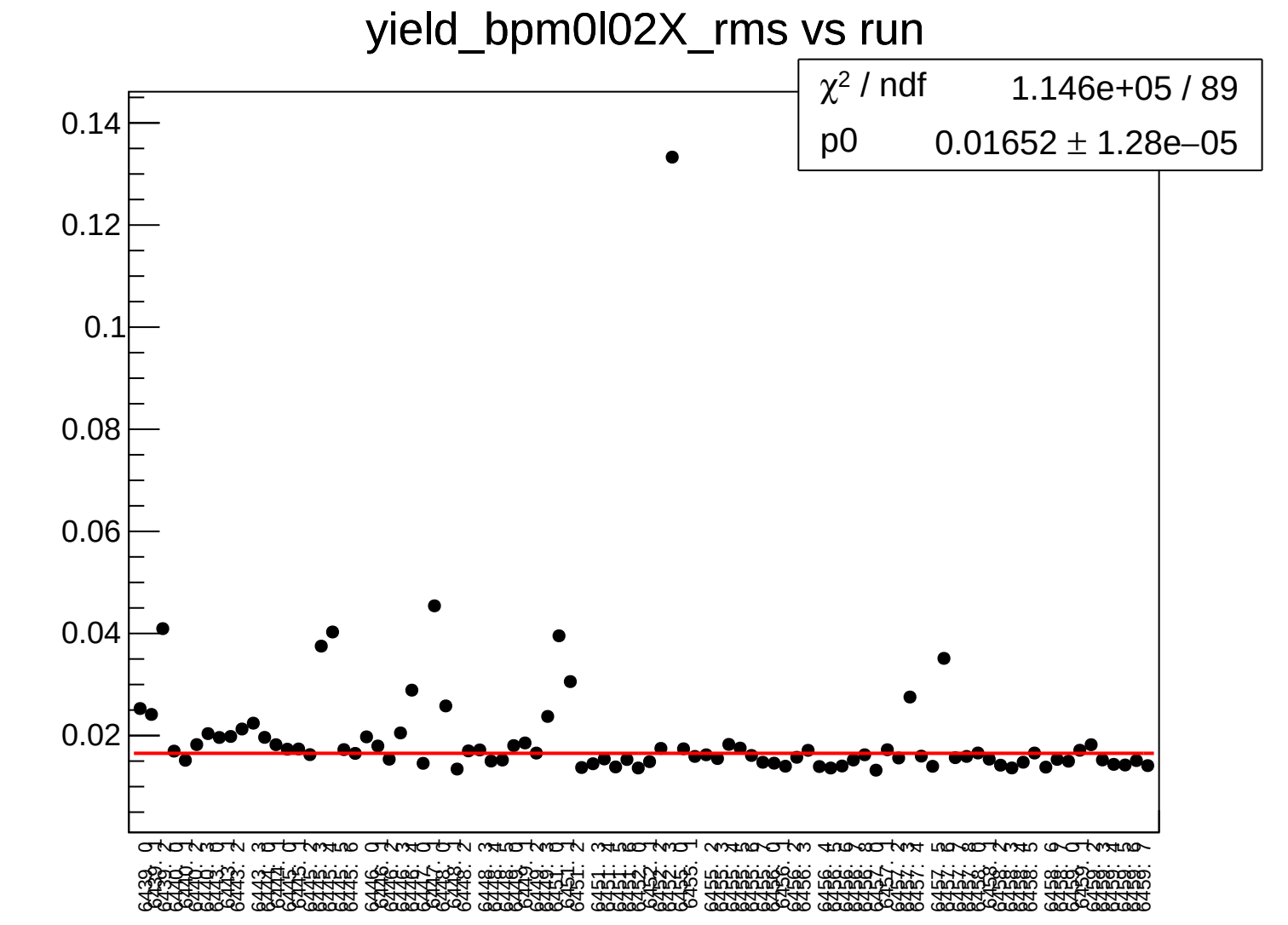

yield_bpm0l01Y_mean vs run
χ² / ndf 7.857e+06 / 89
p0 −5.903 ± 9.129e−06
−5.85
−5.9
−5.95
−6
−6.05
pull
Entries 90
Mean 7.727
Std Dev 35.88
500
0
−500
−1000
−1500

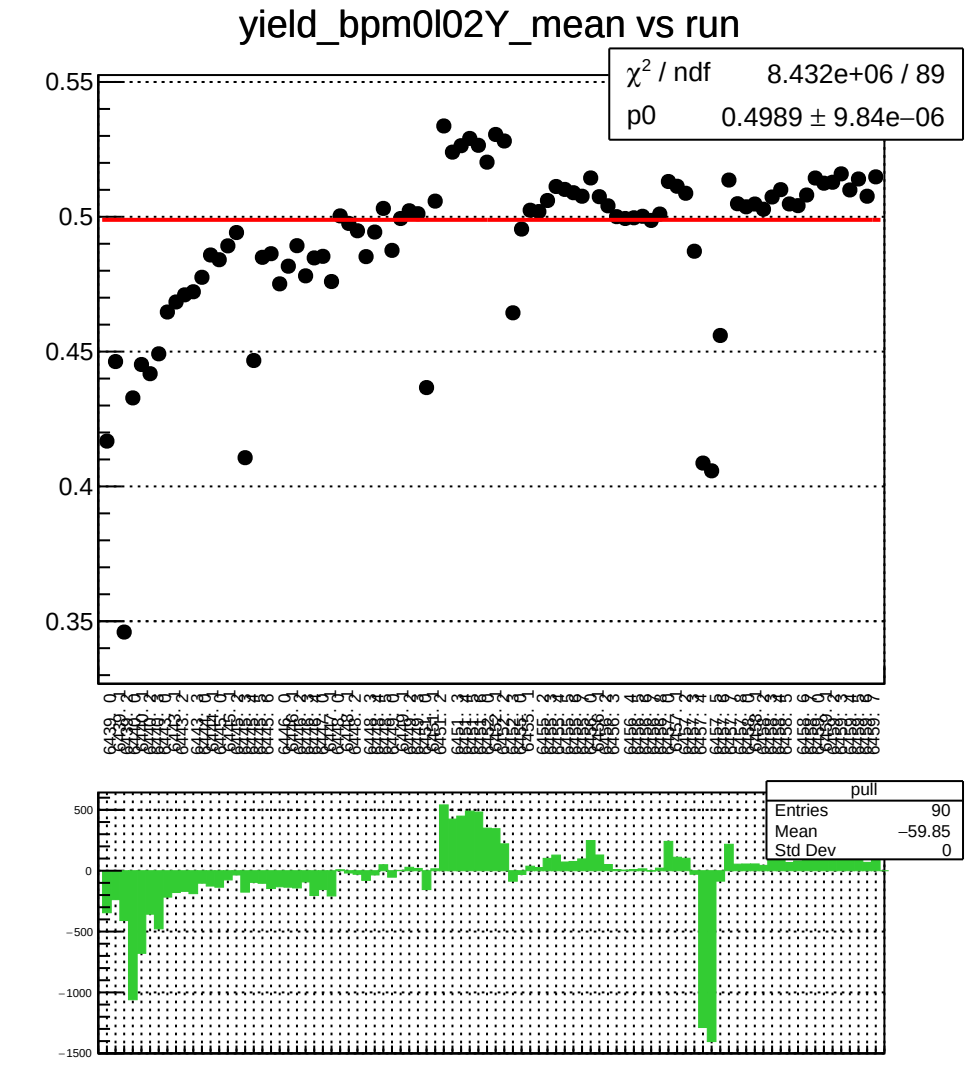

pull1D
Entries 90
Mean 3.29
Std Dev 3.484
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

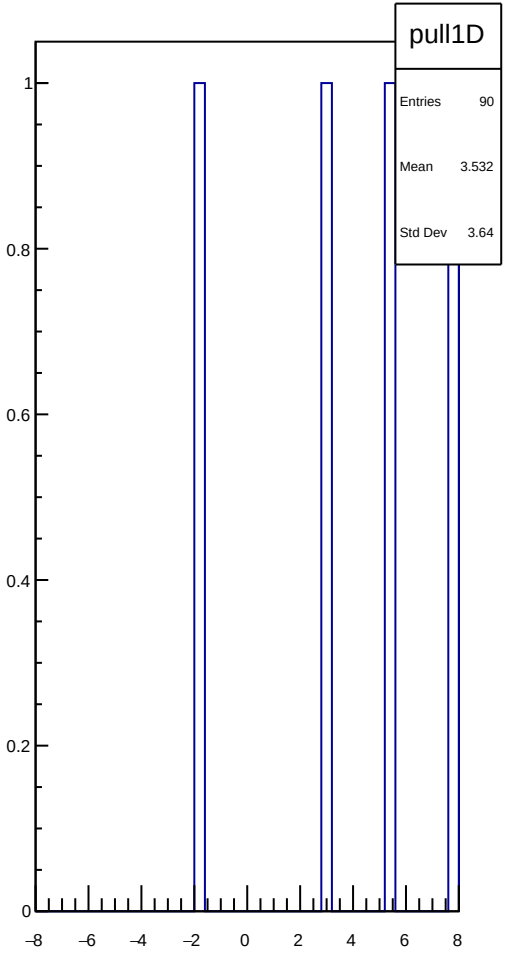

yield_bpm0l01Y_rms vs run
χ² / ndf 3.798e+05 / 89
p0 0.007644 ± 6.455e−06
0.05
0.04
0.03
0.02
0.01

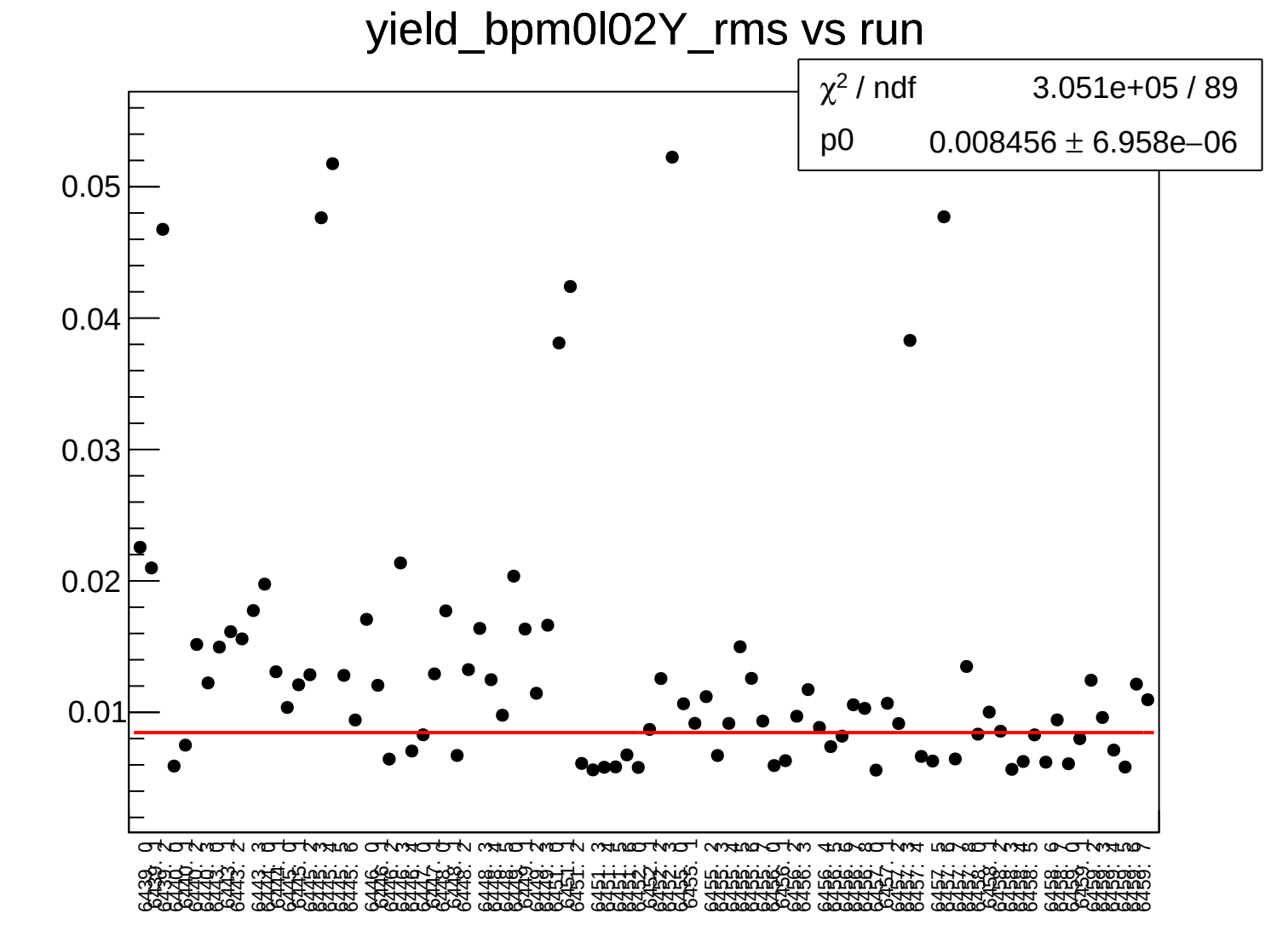

yield_bpm0l02X_mean vs run
χ² / ndf 5.627e+06 / 89
p0 0.4901± 1.81e−05
0.6
0.55
0.5
0.45
0.4
0.35
pull
Entries 90
Mean 173.3
Std Dev 0
400
200
0
−200
−400
−600
−800

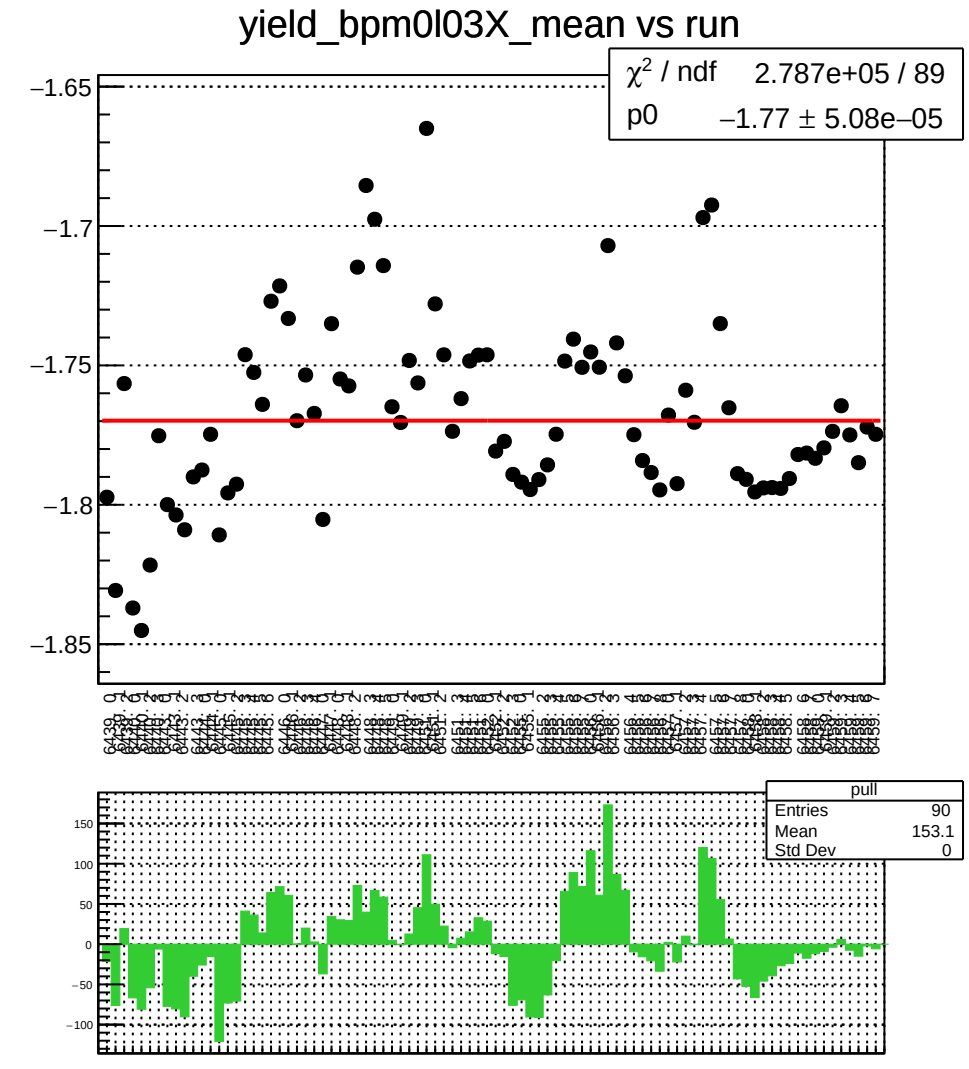

pull1D
Entries 90
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

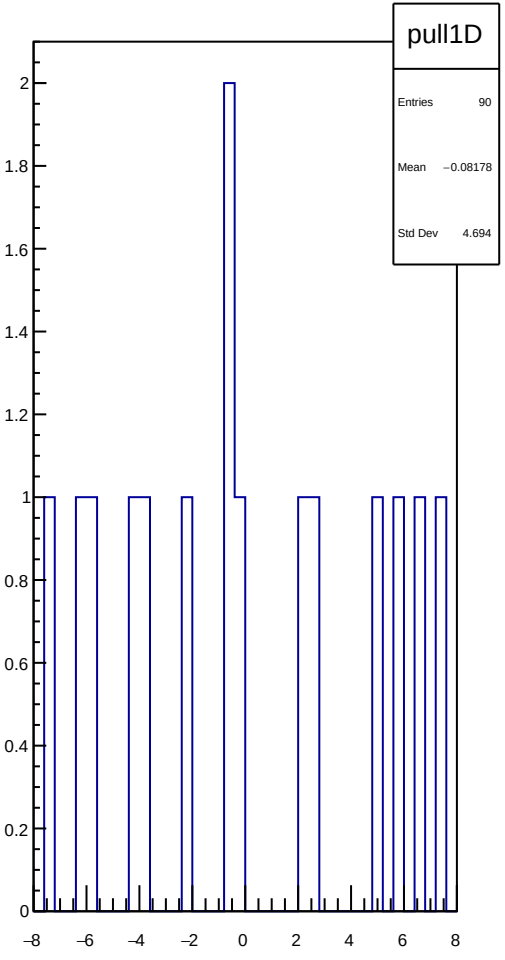

yield_bpm0l02X_rms vs run
χ² / ndf 1.146e+05 / 89
p0 0.01652 ± 1.28e−05
0.14
0.12
0.1
0.08
0.06
0.04
0.02

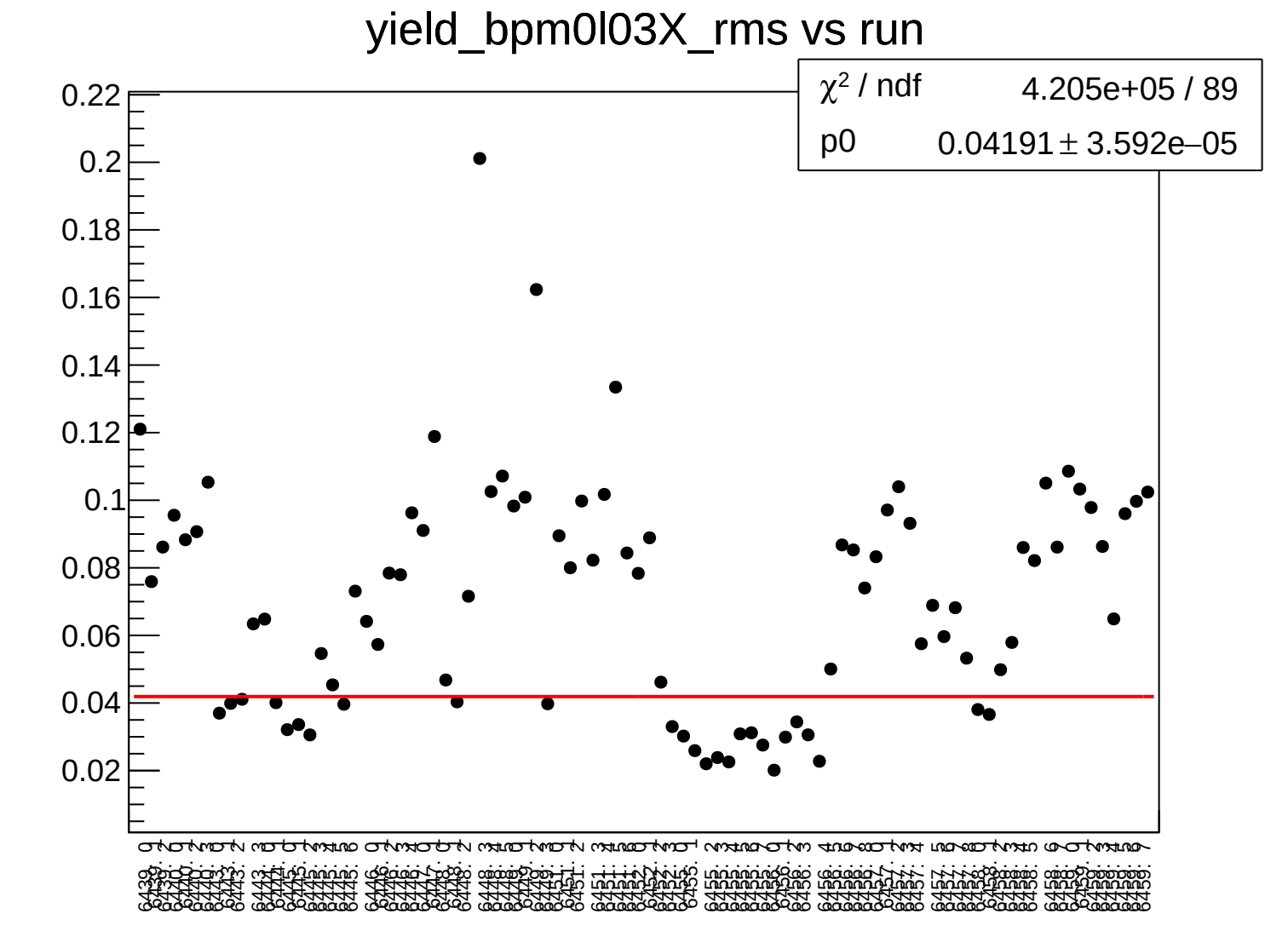

yield_bpm0l02Y_mean vs run
χ² / ndf 8.432e+06 / 89
p0 0.4989 ± 9.84e−06
0.55
0.5
0.45
0.4
0.35
pull
Entries 90
Mean −59.85
Std Dev 0
500
0
−500
−1000
−1500

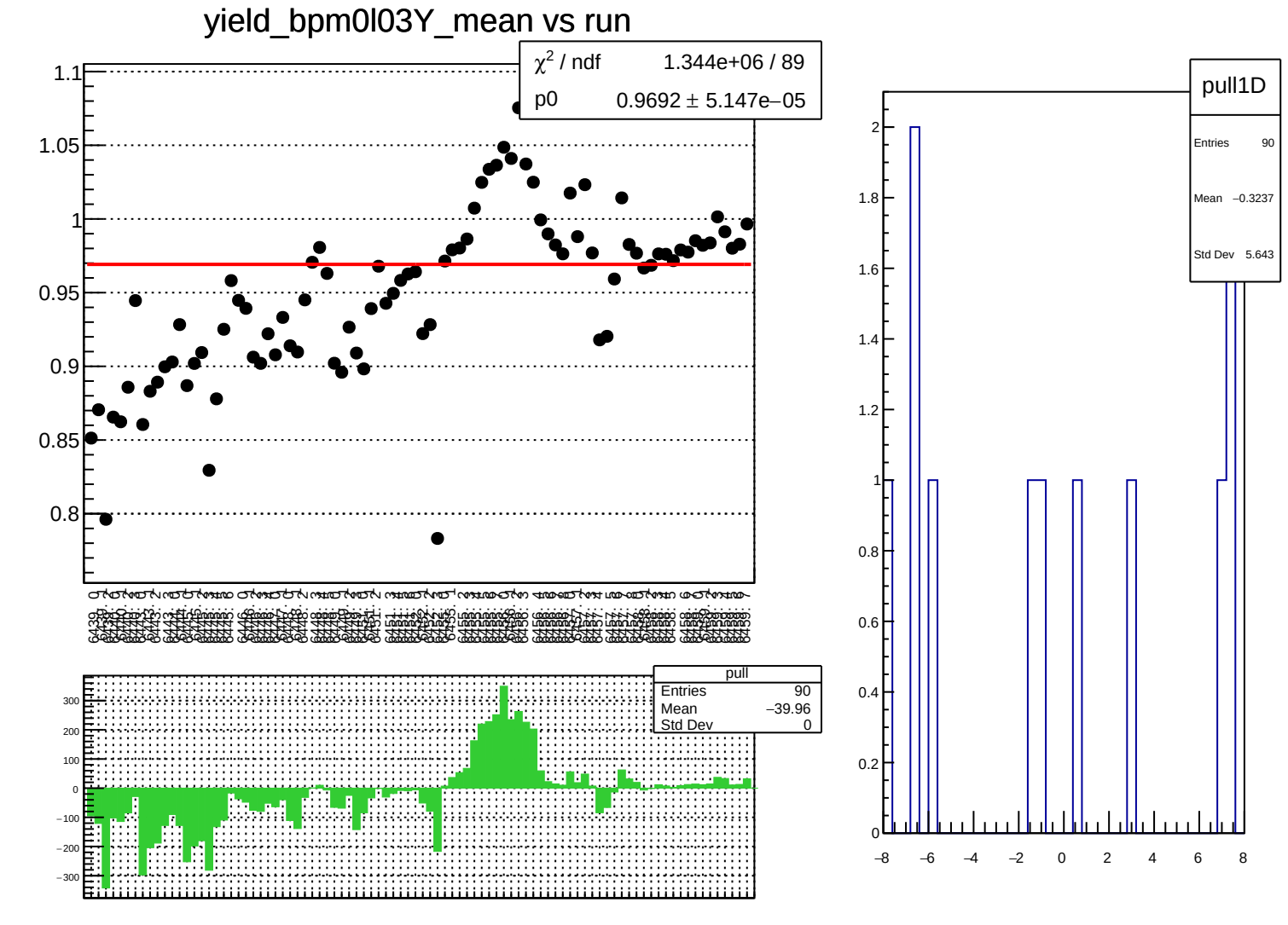

pull1D
Entries 90
Mean 3.532
Std Dev 3.64
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

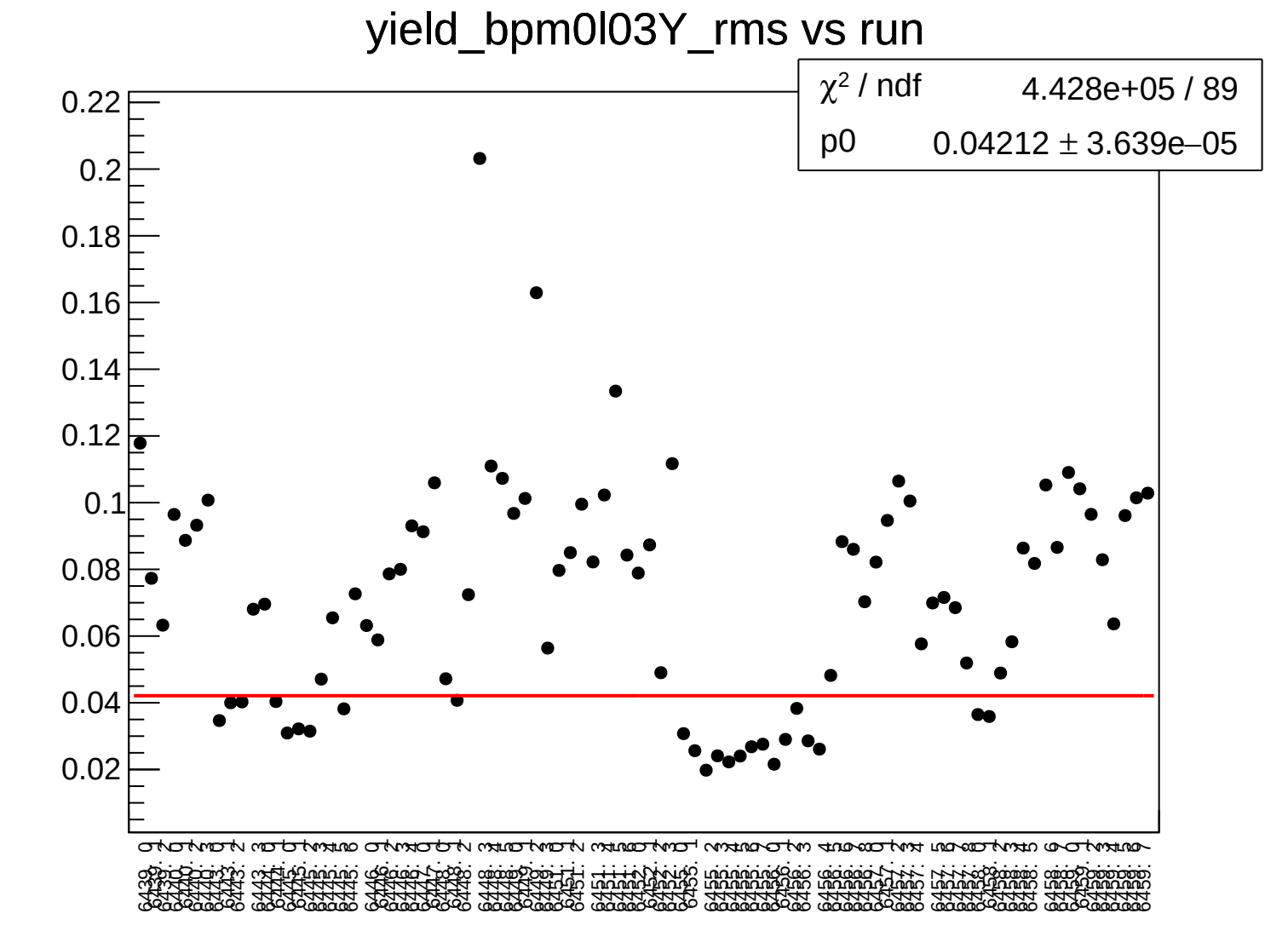

yield_bpm0l02Y_rms vs run
χ² / ndf 3.051e+05 / 89
p0 0.008456 ± 6.958e−06
0.05
0.04
0.03
0.02
0.01

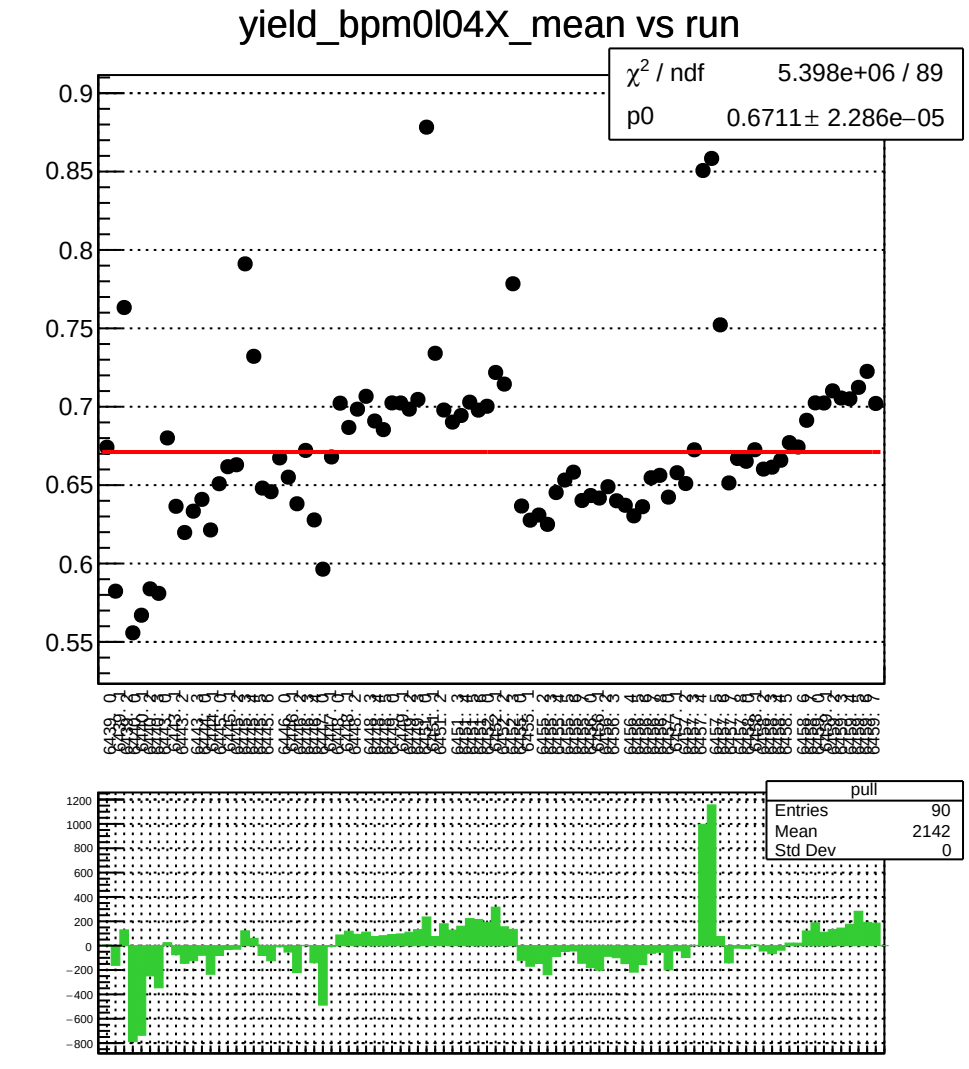

yield_bpm0l03X_mean vs run
χ² / ndf 2.787e+05 / 89
p0 −1.77 ± 5.08e−05
−1.65
−1.7
−1.75
−1.8
−1.85
pull
Entries 90
Mean 153.1
Std Dev 0
150
100
50
0
−50
−100

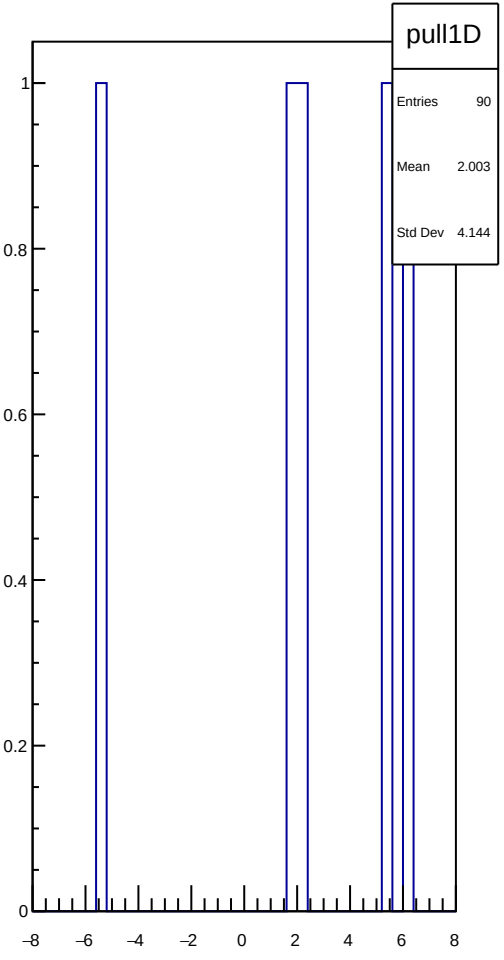

pull1D
Entries 90
Mean −0.08178
Std Dev 4.694
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

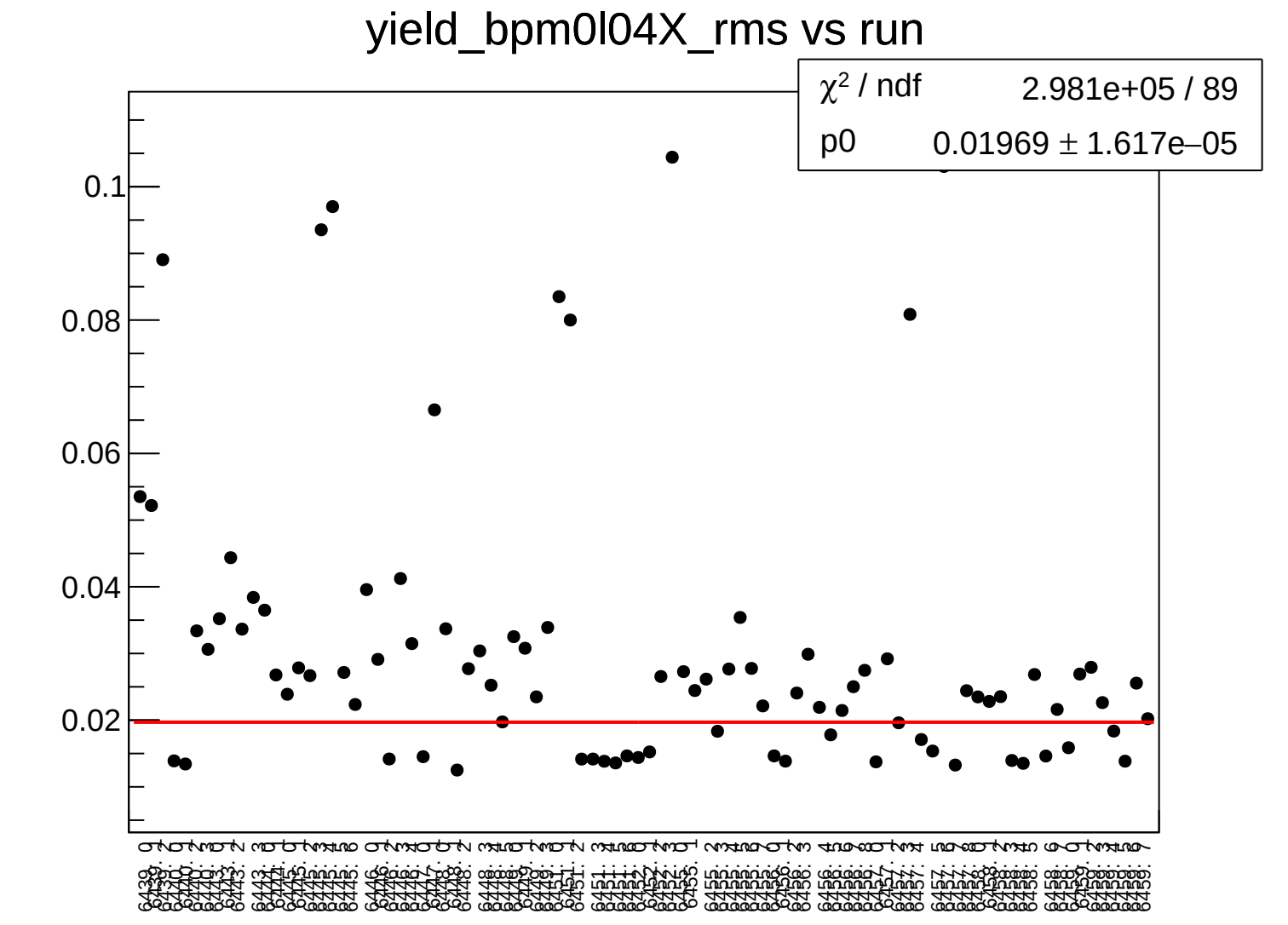

yield_bpm0l03X_rms vs run
χ² / ndf 4.205e+05 / 89
p0 0.04191 ± 3.592e−05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

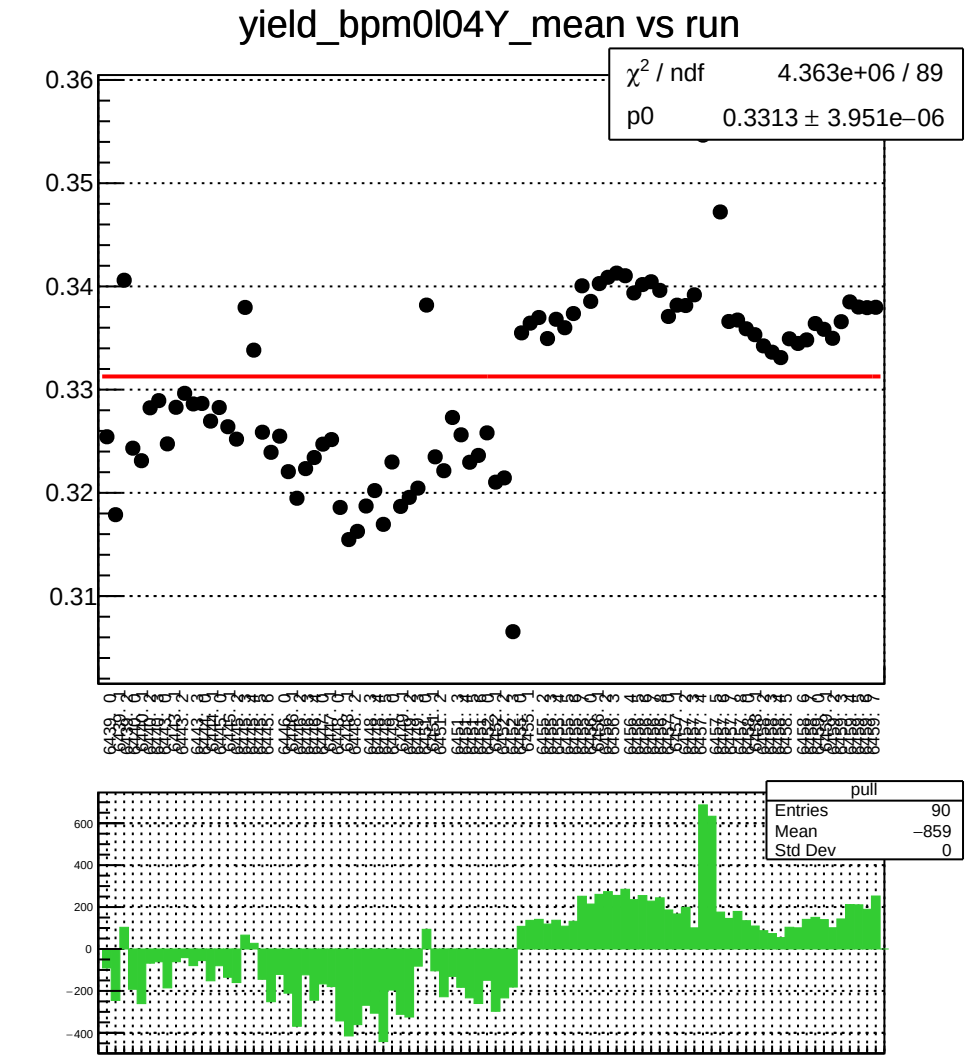

yield_bpm0l03Y_mean vs run
χ² / ndf 1.344e+06 / 89
p0 0.9692 ± 5.147e−05
pull
Entries 90
Mean −39.96
Std Dev 0
pull1D
Entries 90
Mean −0.3237
Std Dev 5.643

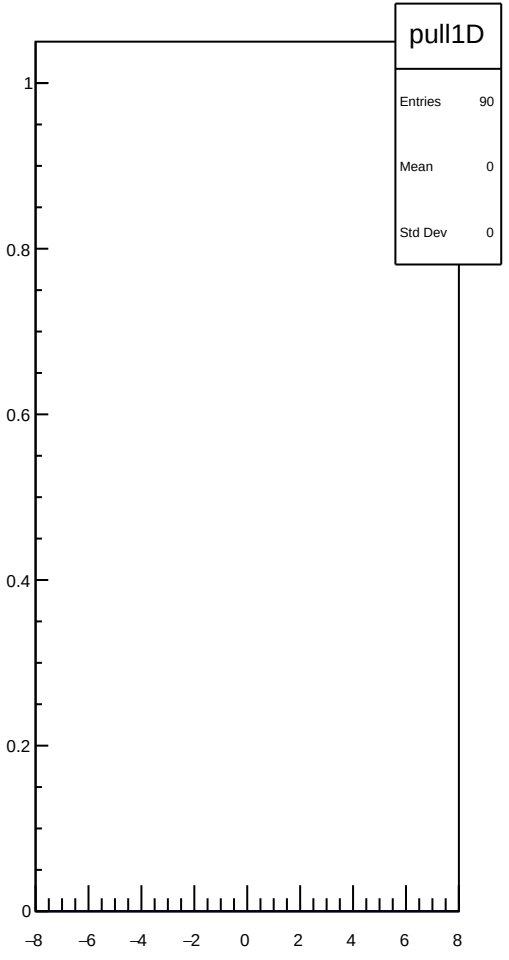

yield_bpm0l03Y_rms vs run
χ² / ndf 4.428e+05 / 89
p0 0.04212 ± 3.639e−05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02


yield_bpm0l04X_mean vs run
χ² / ndf 5.398e+06 / 89
p0 0.6711 ± 2.286e−05
pull
Entries 90
Mean 2142
Std Dev 0

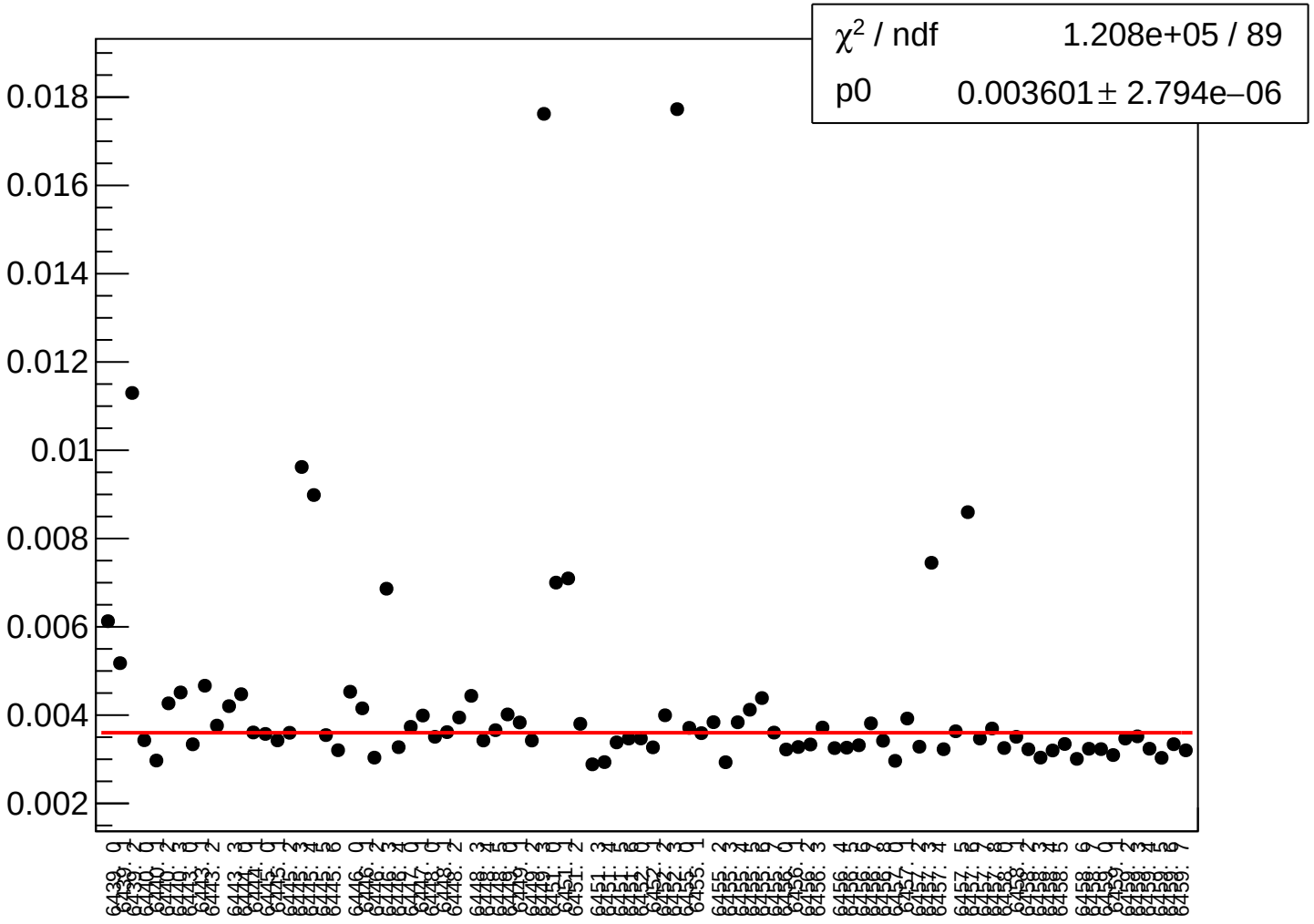

pull1D
Entries 90
Mean 2.003
Std Dev 4.144

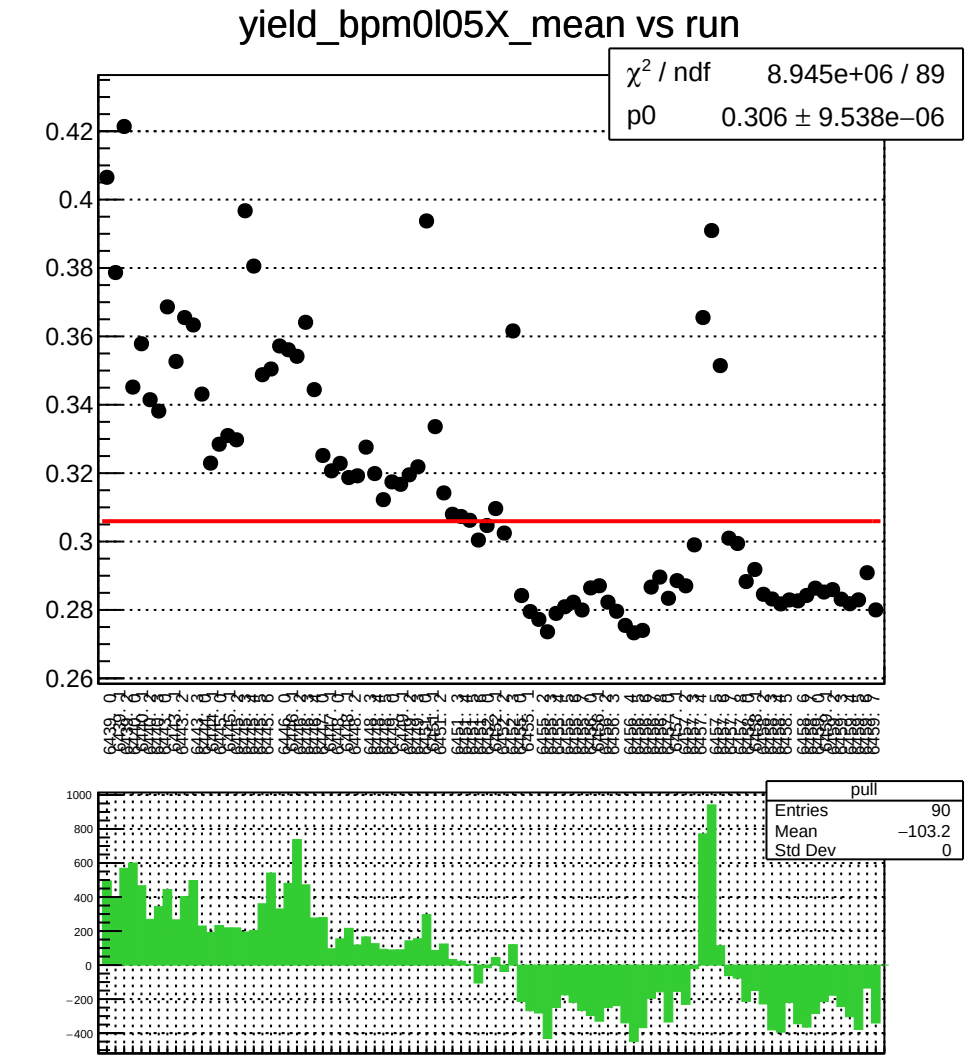

yield_bpm0l04X_rms vs run
χ² / ndf 2.981e+05 / 89
p0 0.01969 ± 1.617e−05
0.1
0.08
0.06
0.04
0.02

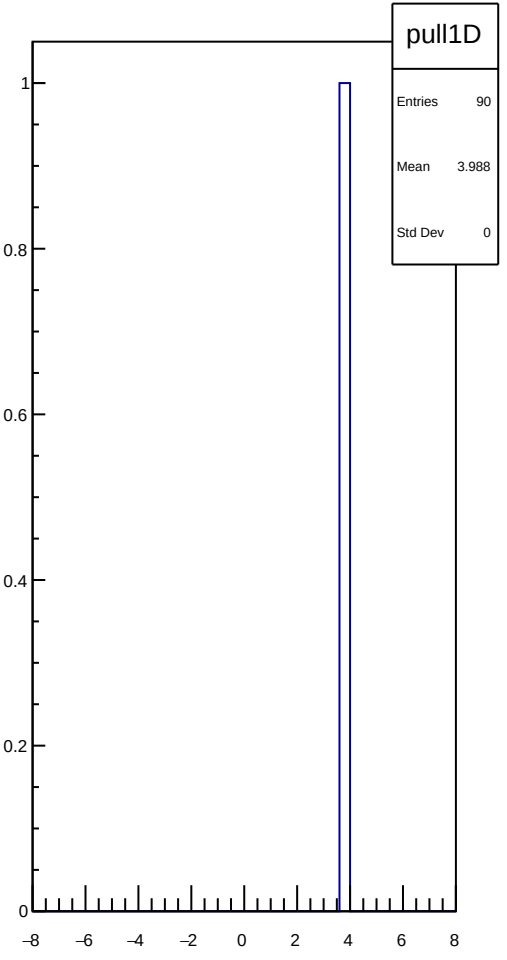

yield_bpm0l04Y_mean vs run
χ² / ndf 4.363e+06 / 89
p0 0.3313 ± 3.951e−06
0.36
0.35
0.34
0.33
0.32
0.31
pull
Entries 90
Mean −859
Std Dev 0
600
400
200
0
−200
−400

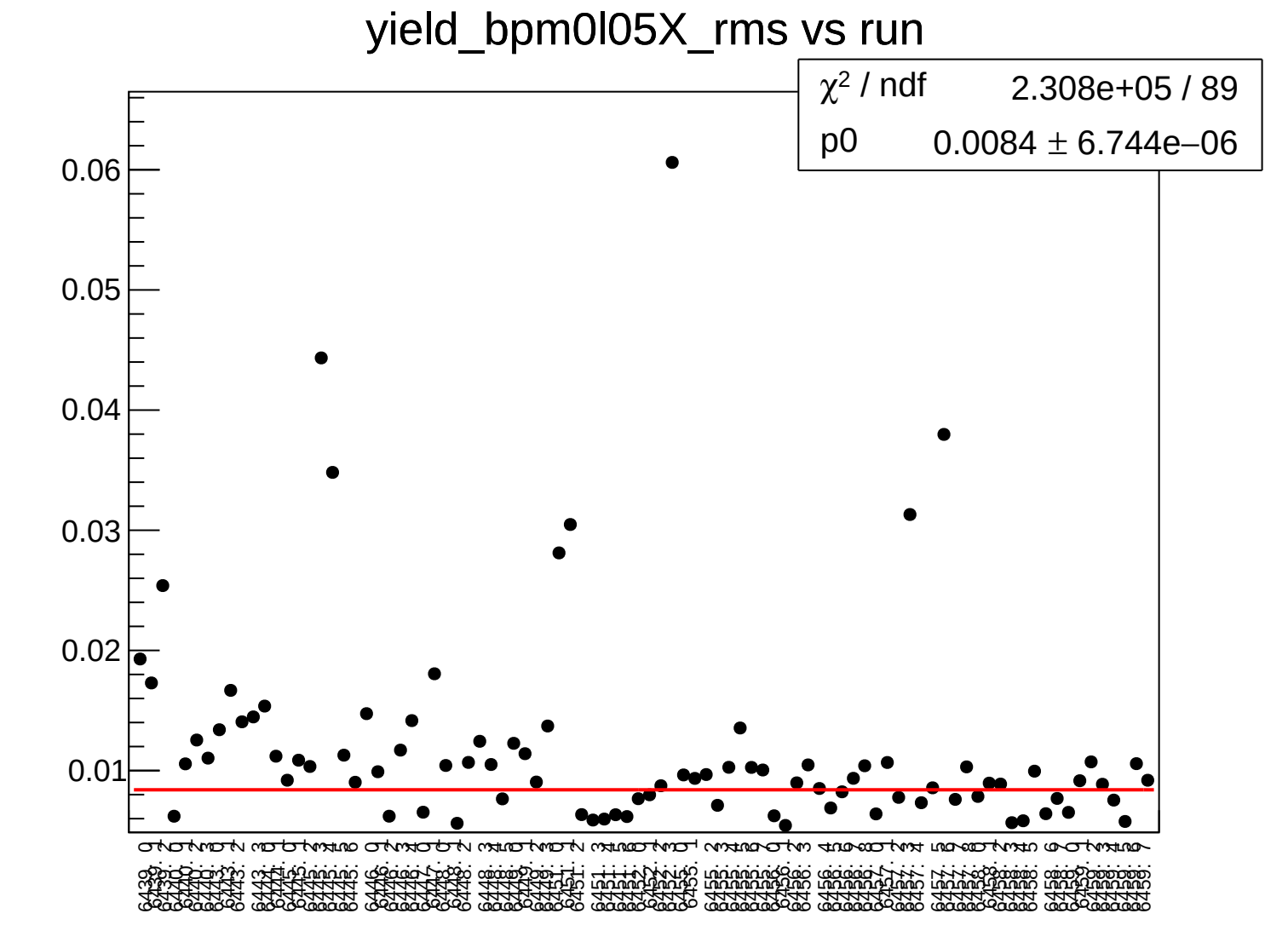

pull1D
Entries 90
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

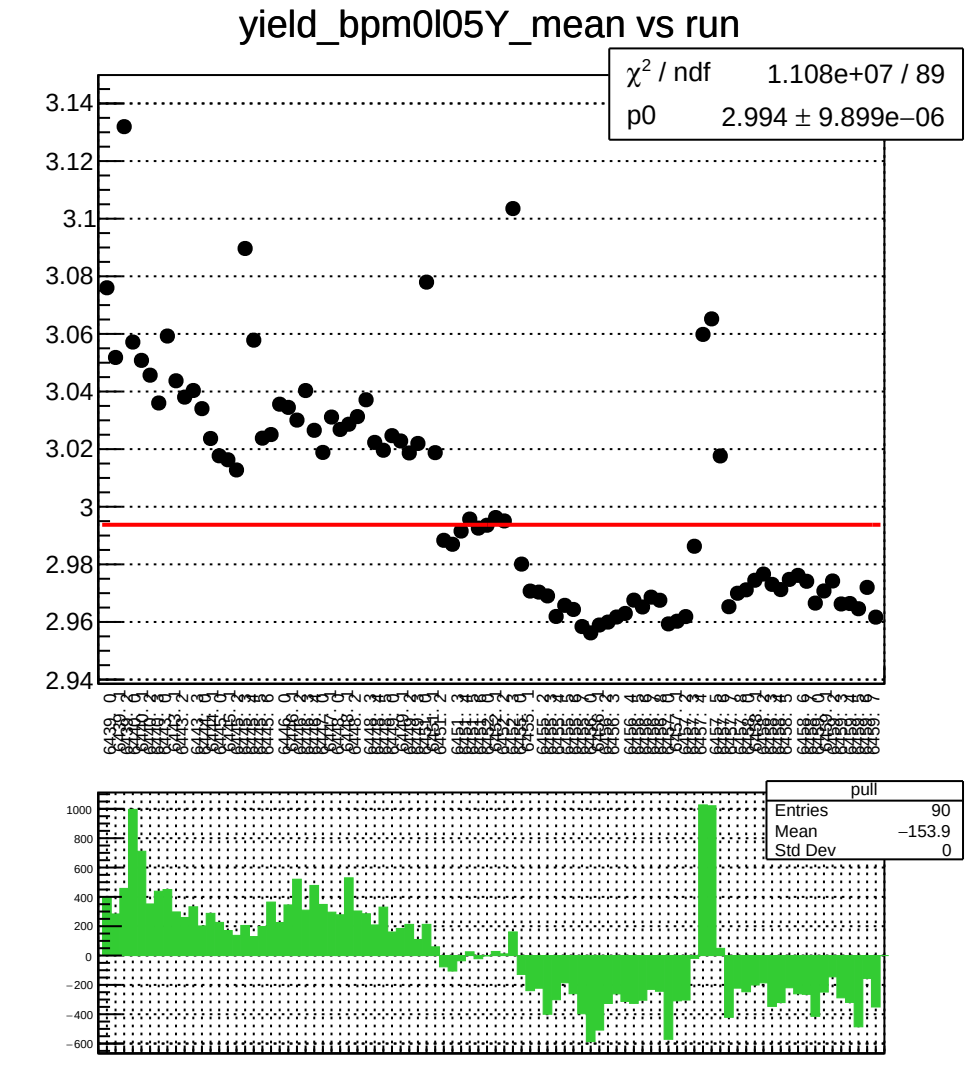
yield_bpm0l04Y_rms vs run

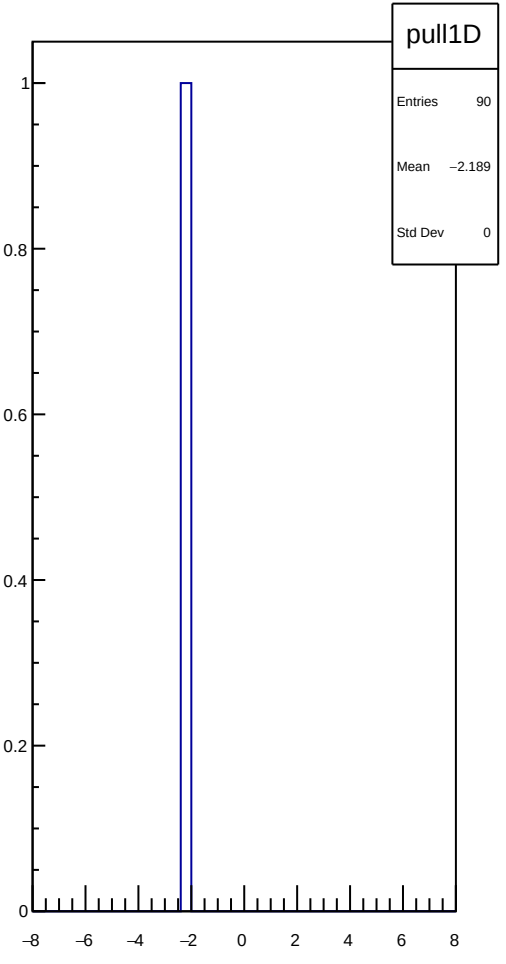


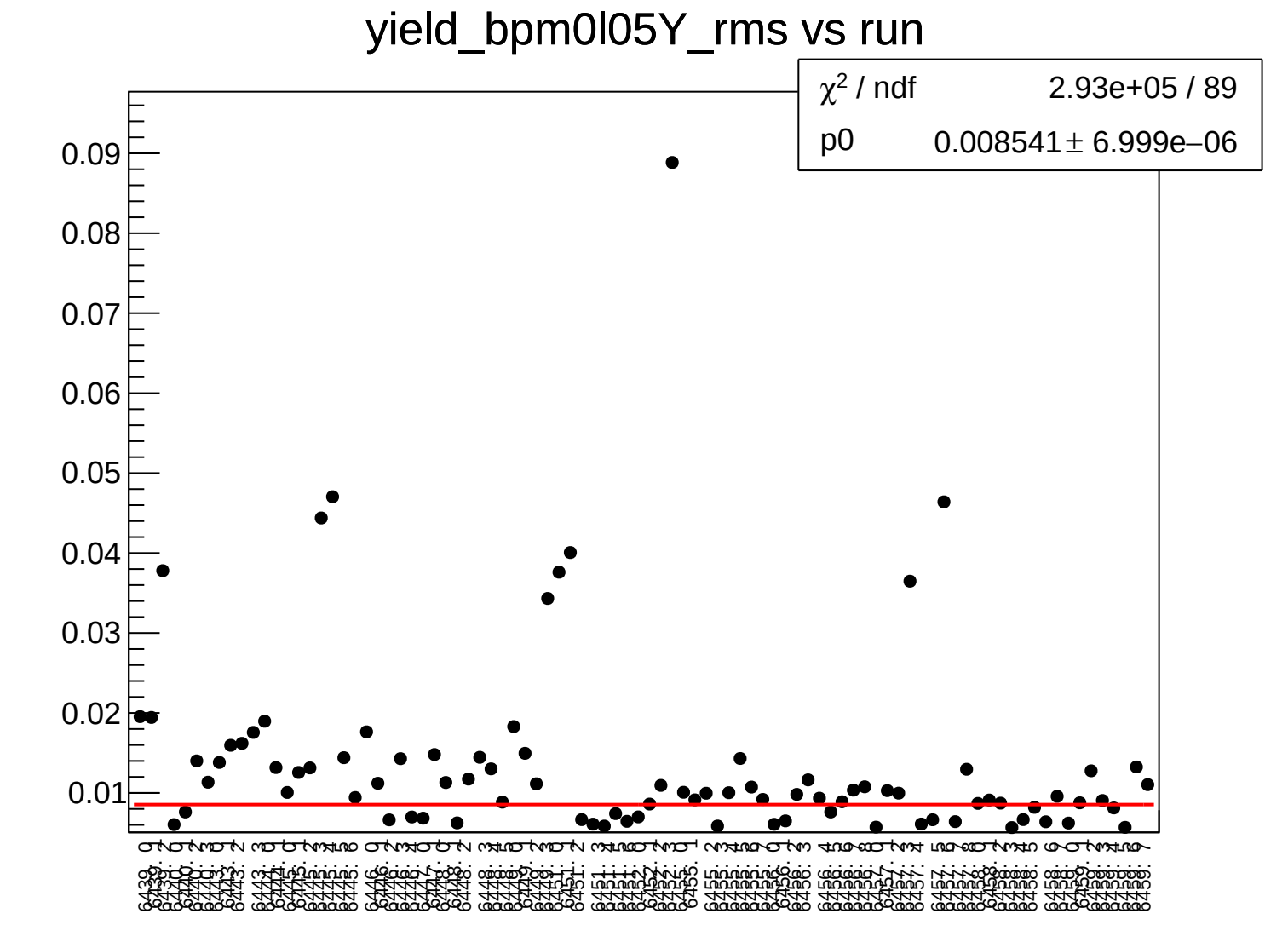

yield_bpm0l05X_mean vs run
χ² / ndf 8.945e+06 / 89
p0 0.306 ± 9.538e−06
0.42
0.4
0.38
0.36
0.34
0.32
0.3
0.28
0.26
pull
Entries 90
Mean −103.2
Std Dev 0
1000
800
600
400
200
0
−200
−400

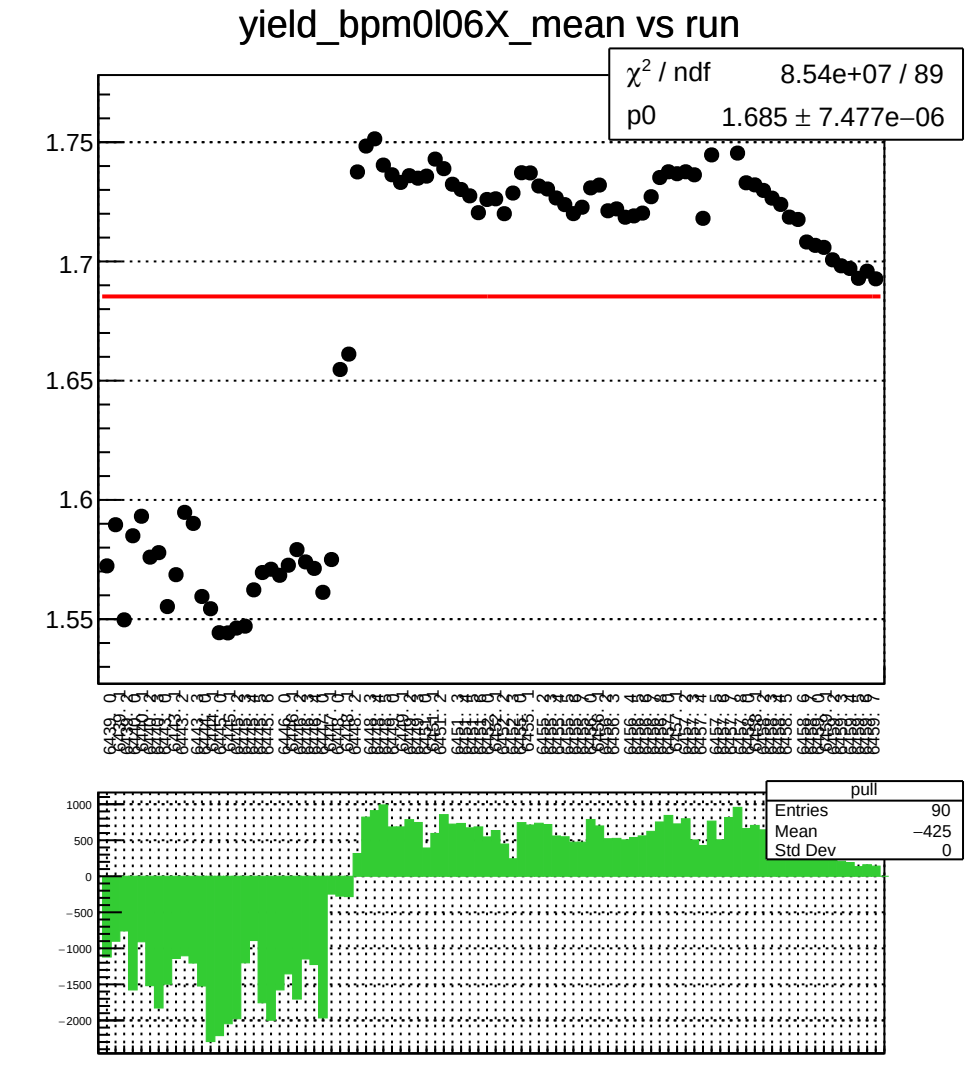

pull1D
Entries 90
Mean 3.988
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

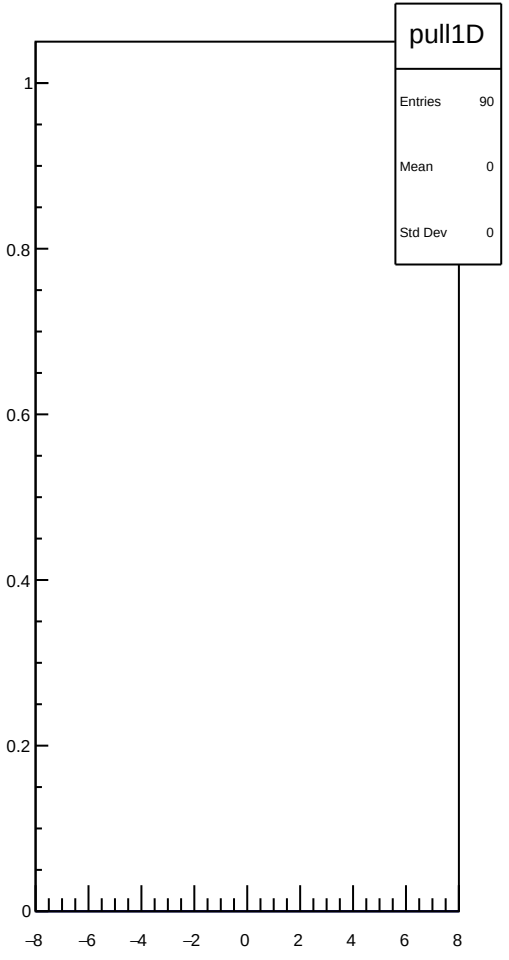

yield_bpm0l05X_rms vs run
χ² / ndf 2.308e+05 / 89
p0 0.0084 ± 6.744e−06
0.06
0.05
0.04
0.03
0.02
0.01

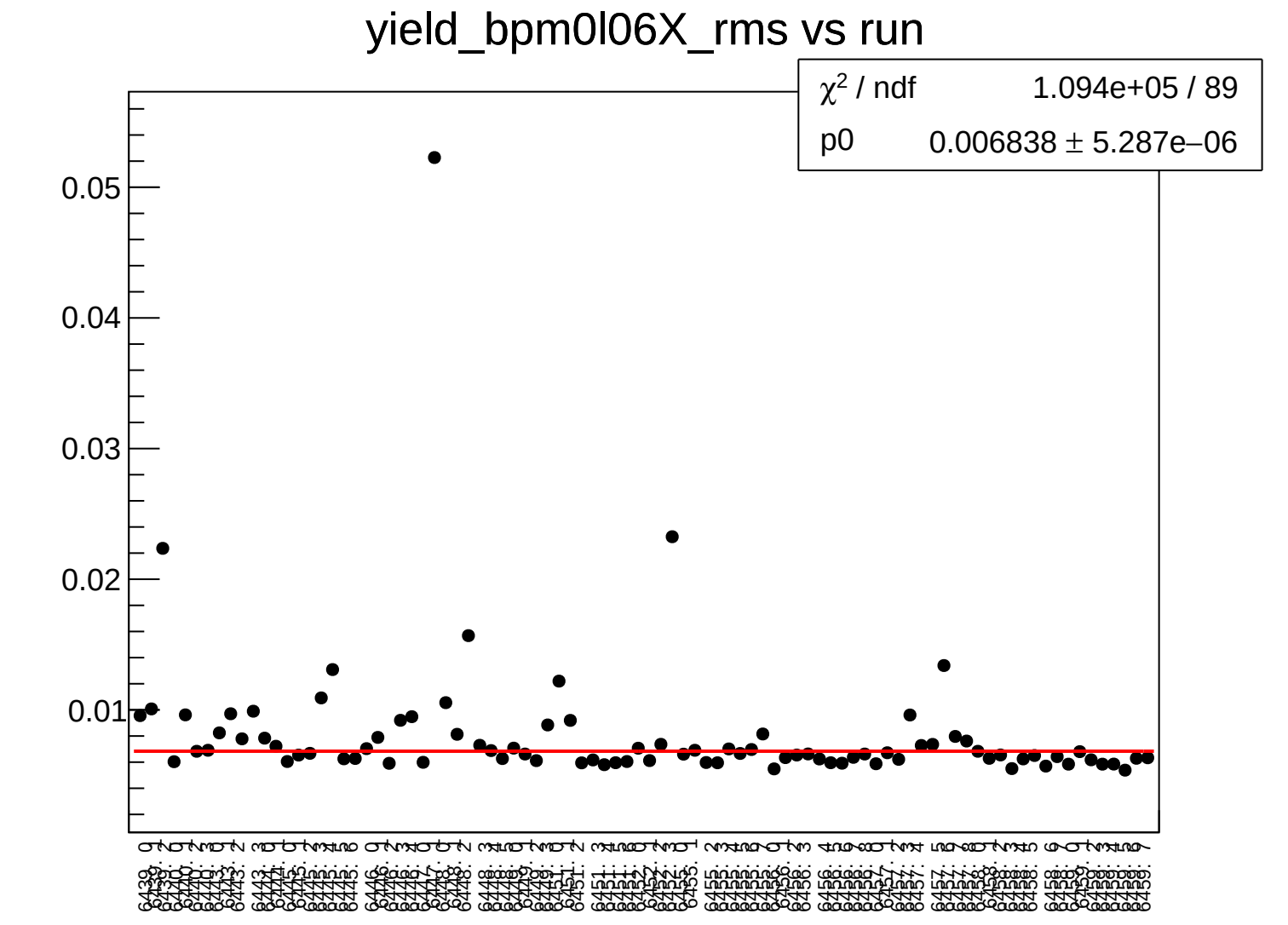

yield_bpm0l05Y_mean vs run
χ² / ndf 1.108e+07 / 89
p0 2.994 ± 9.899e−06
pull
Entries 90
Mean −153.9
Std Dev 0

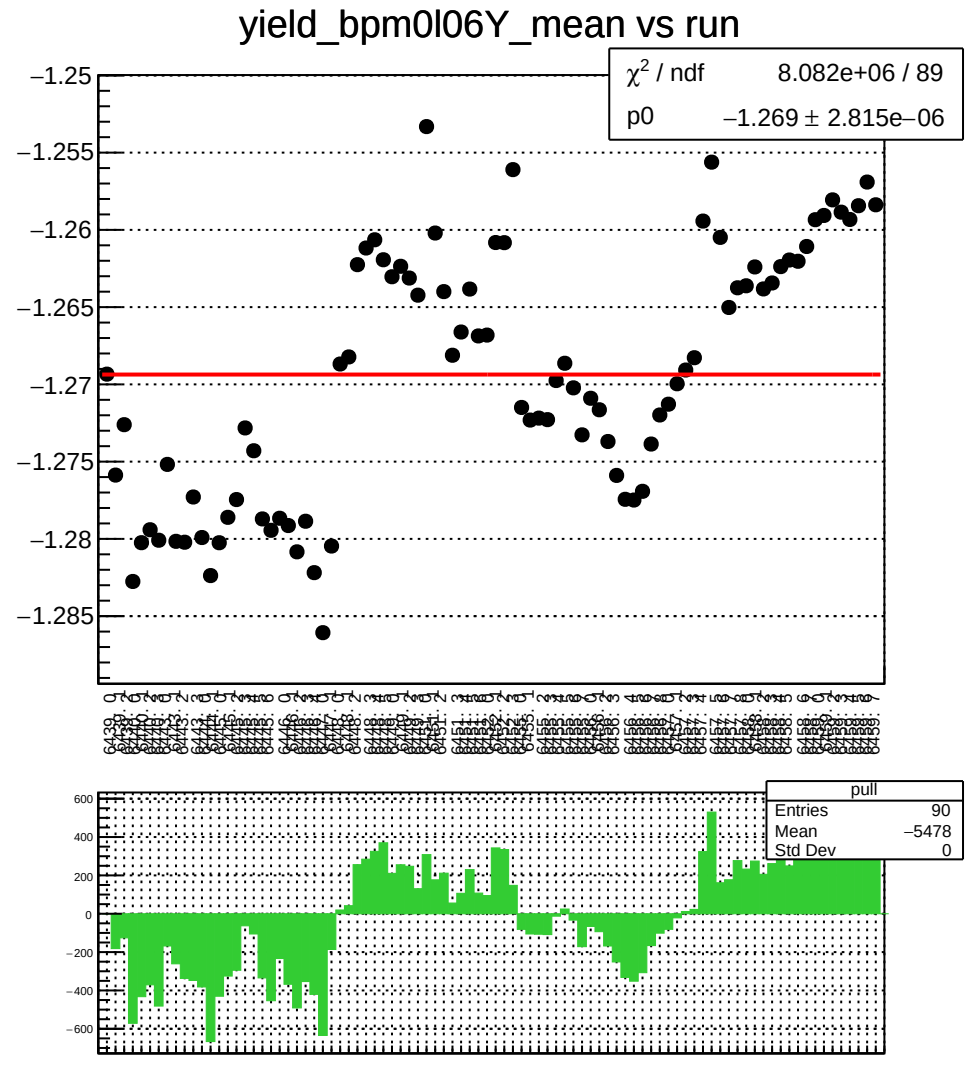

pull1D
Entries 90
Mean −2.189
Std Dev 0

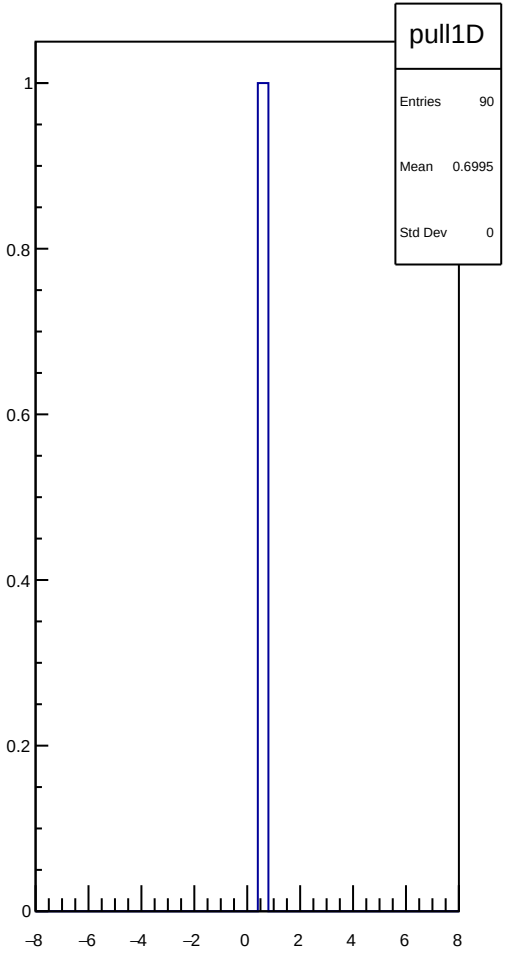

yield_bpm0l05Y_rms vs run
χ² / ndf 2.93e+05 / 89
p0 0.008541 ± 6.999e−06
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

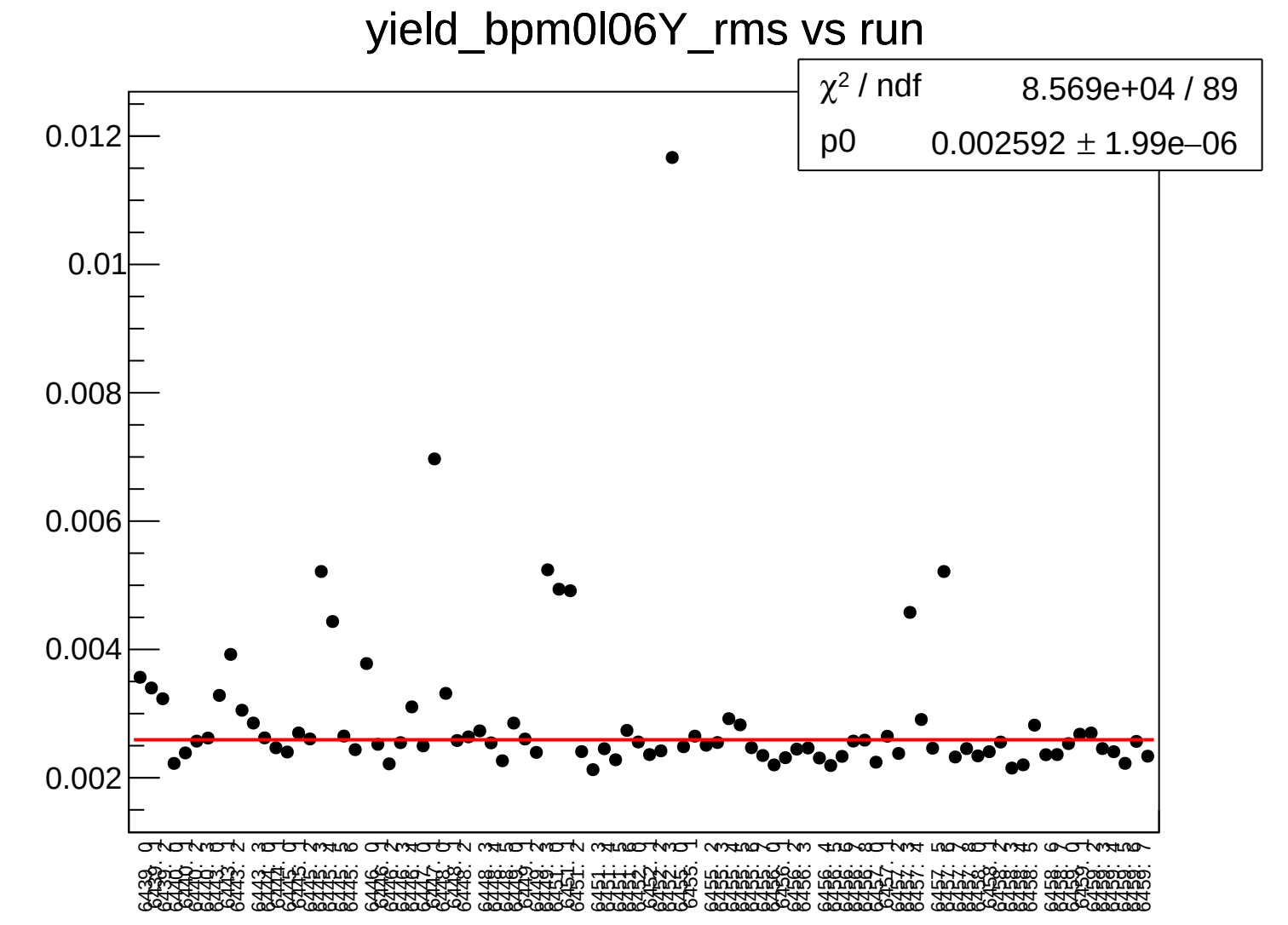

yield_bpm0l06X_mean vs run
χ² / ndf 8.54e+07 / 89
p0 1.685 ± 7.477e−06
1.75
1.7
1.65
1.6
1.55
pull
Entries 90
Mean −425
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000

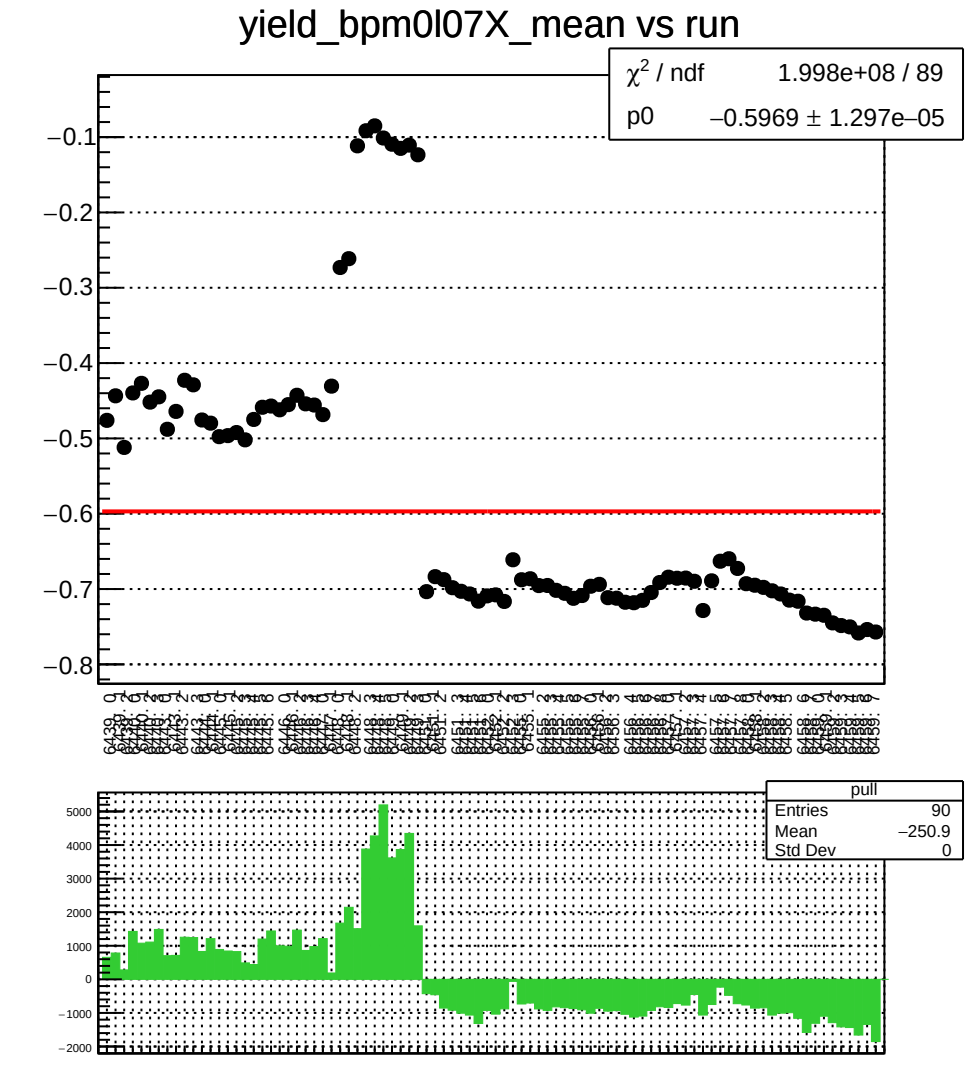

pull1D
Entries 90
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

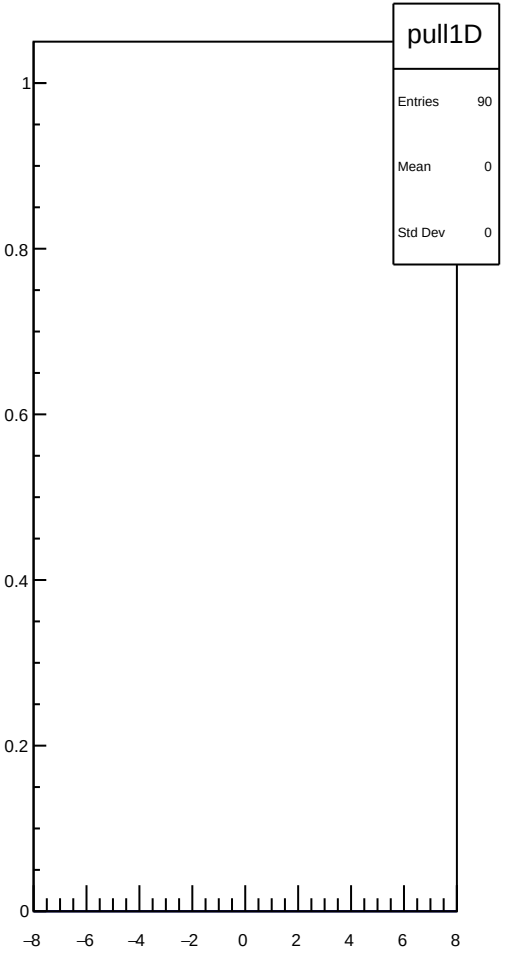

yield_bpm0l06X_rms vs run
χ^2 / ndf 1.094e+05 / 89
p0 0.006838 ± 5.287e−06
0.05
0.04
0.03
0.02
0.01

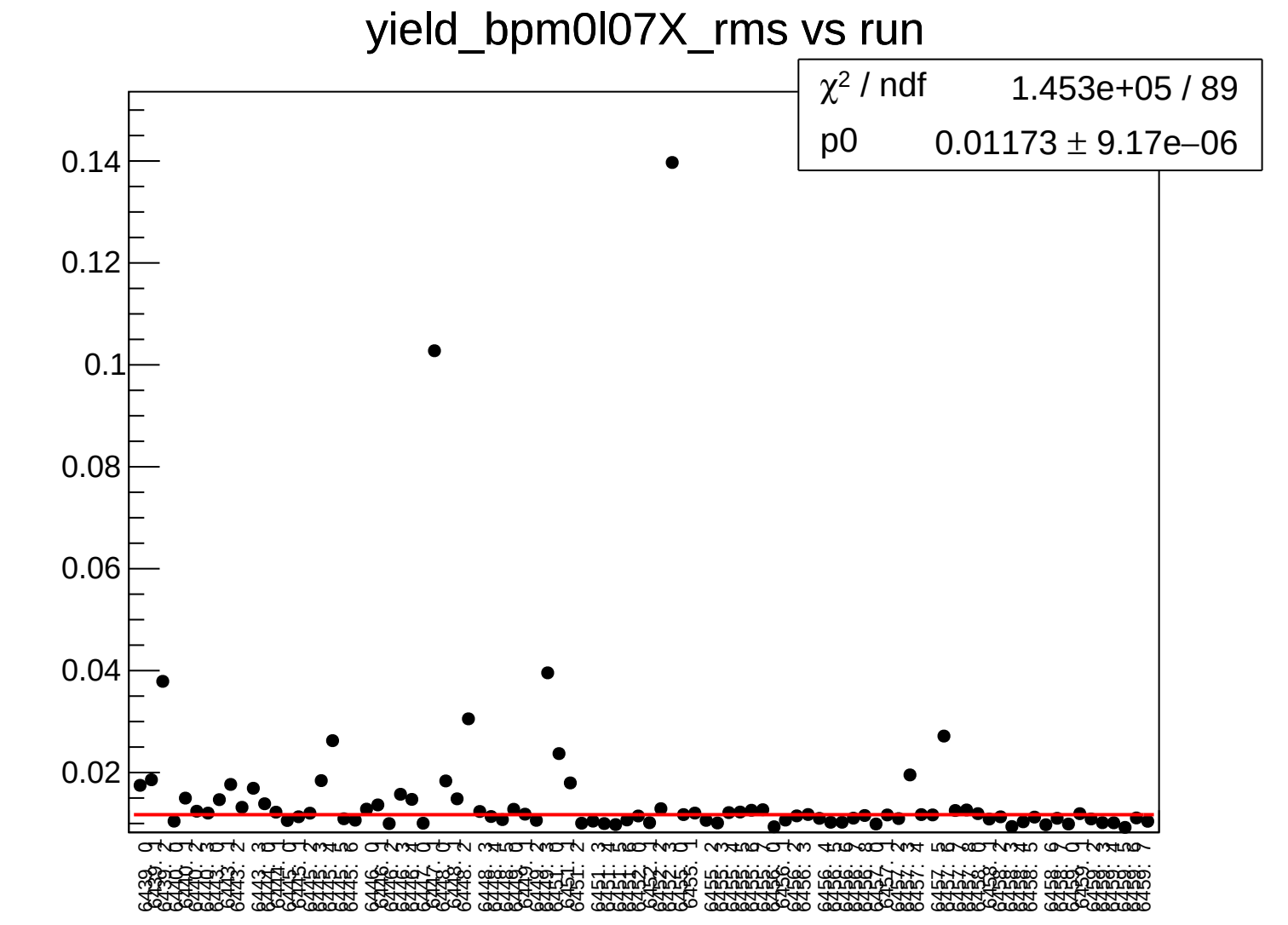

yield_bpm0l06Y_mean vs run
χ² / ndf 8.082e+06 / 89
p0 −1.269 ± 2.815e−06
−1.25
−1.255
−1.26
−1.265
−1.27
−1.275
−1.28
−1.285
pull
Entries 90
Mean −5478
Std Dev 0
600
400
200
0
−200
−400
−600

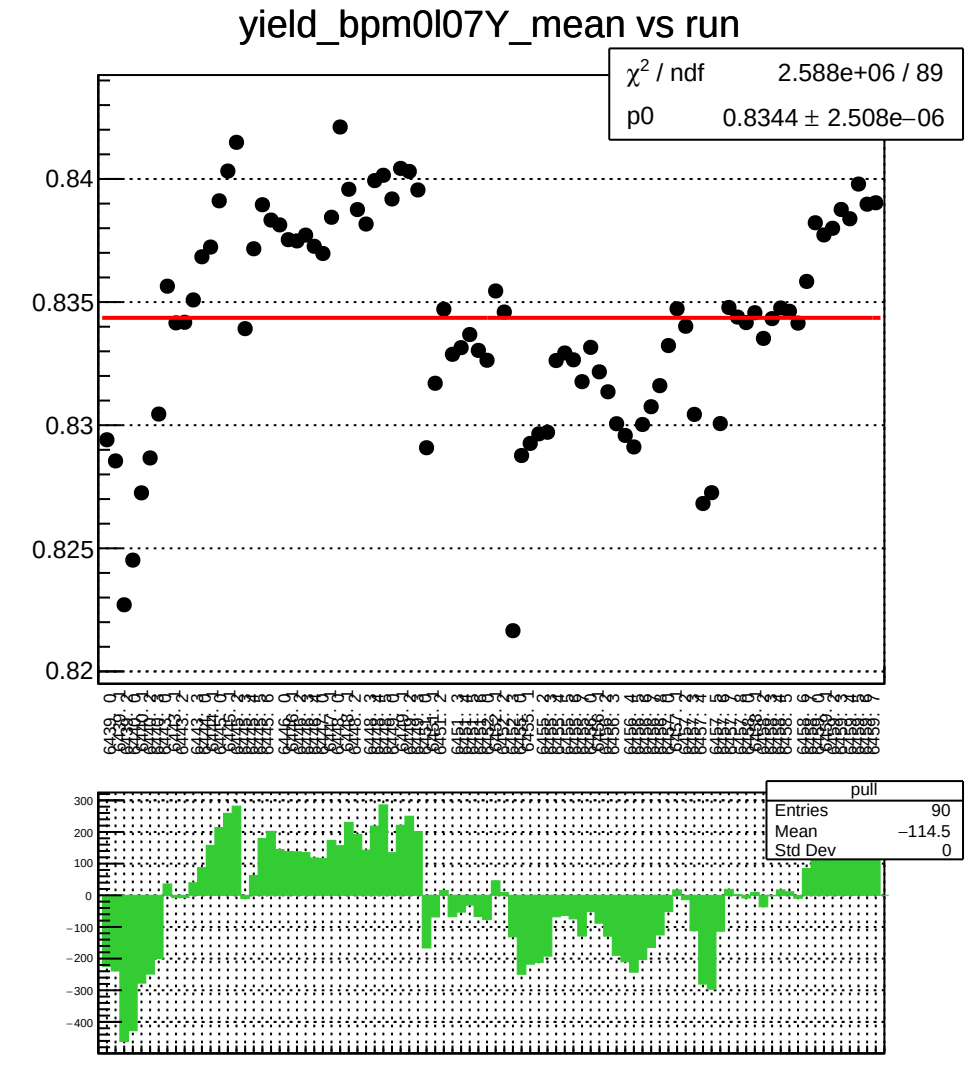

pull1D
Entries 90
Mean 0.6995
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

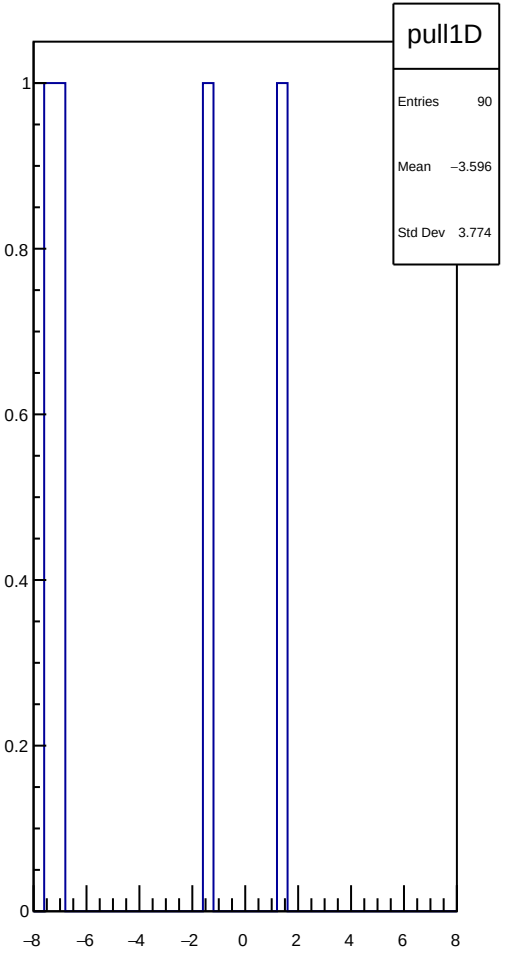

yield_bpm0l06Y_rms vs run
χ² / ndf 8.569e+04 / 89
p0 0.002592 ± 1.99e−06
0.012
0.01
0.008
0.006
0.004
0.002

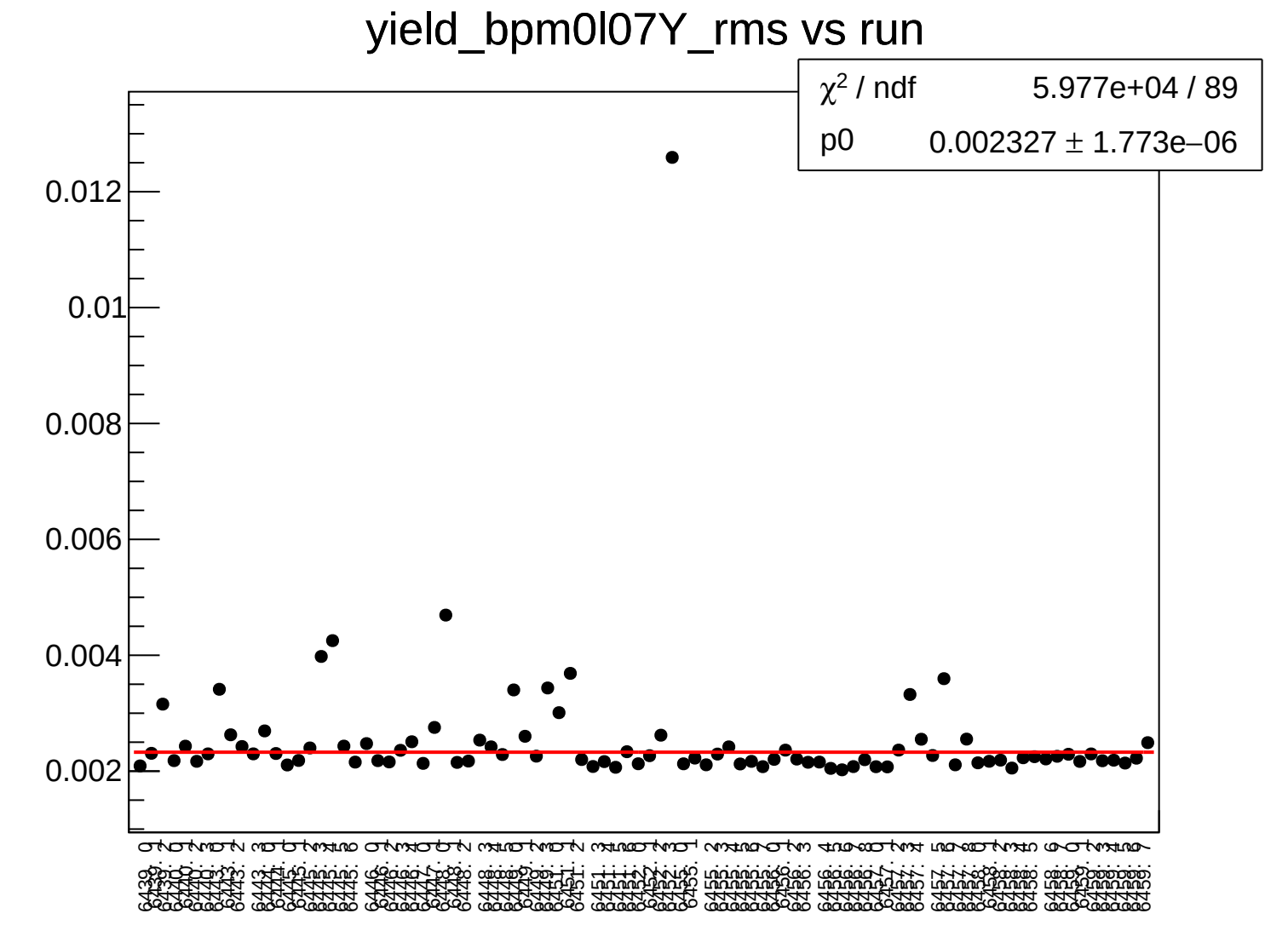

yield_bpm0l07X_mean vs run
χ² / ndf 1.998e+08 / 89
p0 −0.5969 ± 1.297e−05
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
−0.8
pull
Entries 90
Mean −250.9
Std Dev 0
5000
4000
3000
2000
1000
0
−1000
−2000

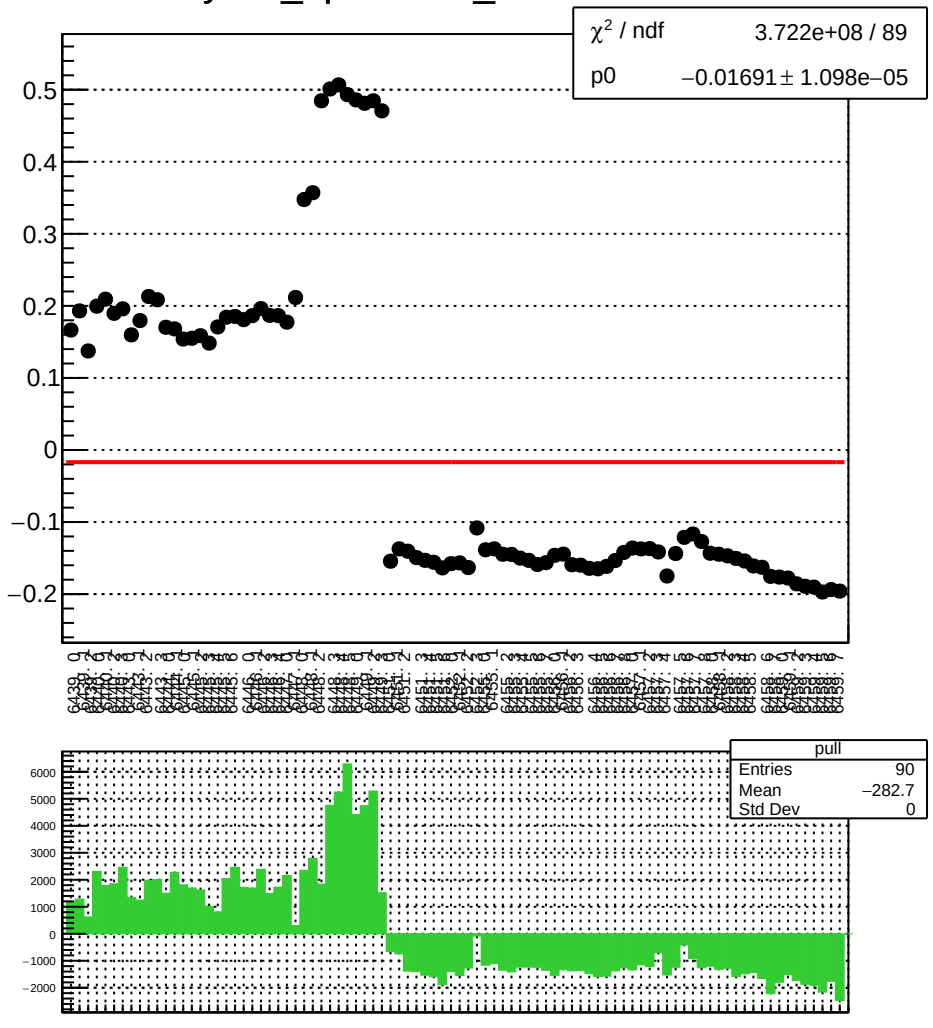

pull1D
Entries 90
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

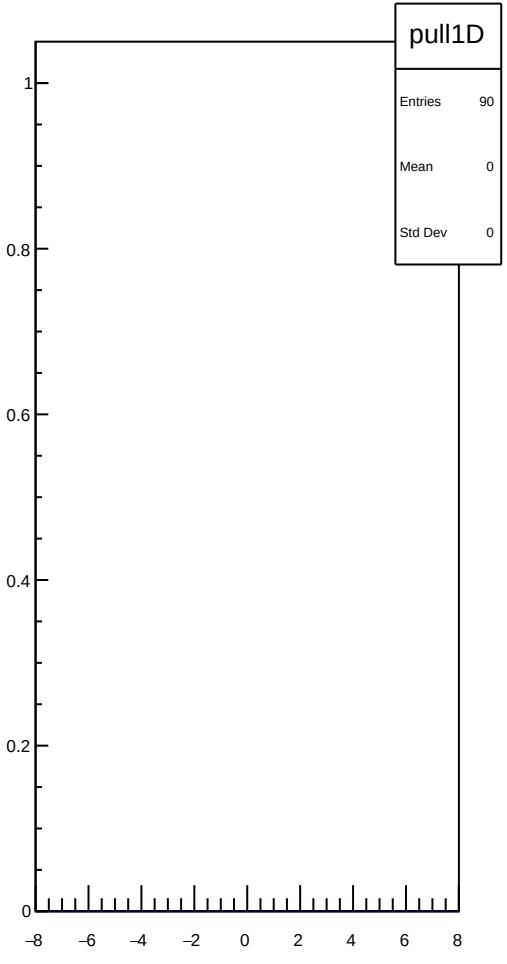

yield_bpm0l07X_rms vs run
χ² / ndf 1.453e+05 / 89
p0 0.01173 ± 9.17e−06
0.14
0.12
0.1
0.08
0.06
0.04
0.02

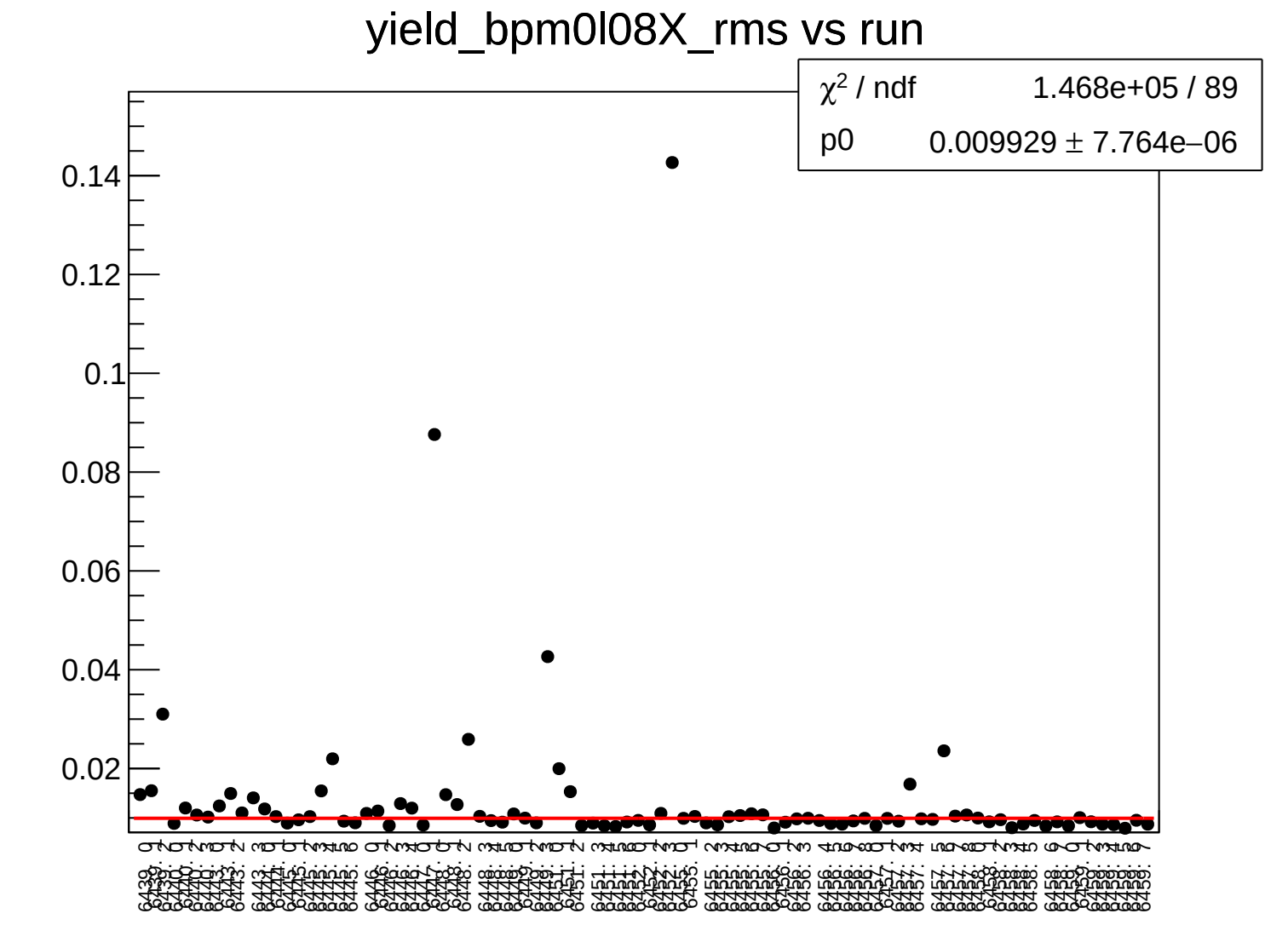

yield_bpm0l07Y_mean vs run
χ² / ndf 2.588e+06 / 89
p0 0.8344 ± 2.508e−06
0.84
0.835
0.83
0.825
0.82
pull
Entries 90
Mean −114.5
Std Dev 0
300
200
100
0
−100
−200
−300
−400

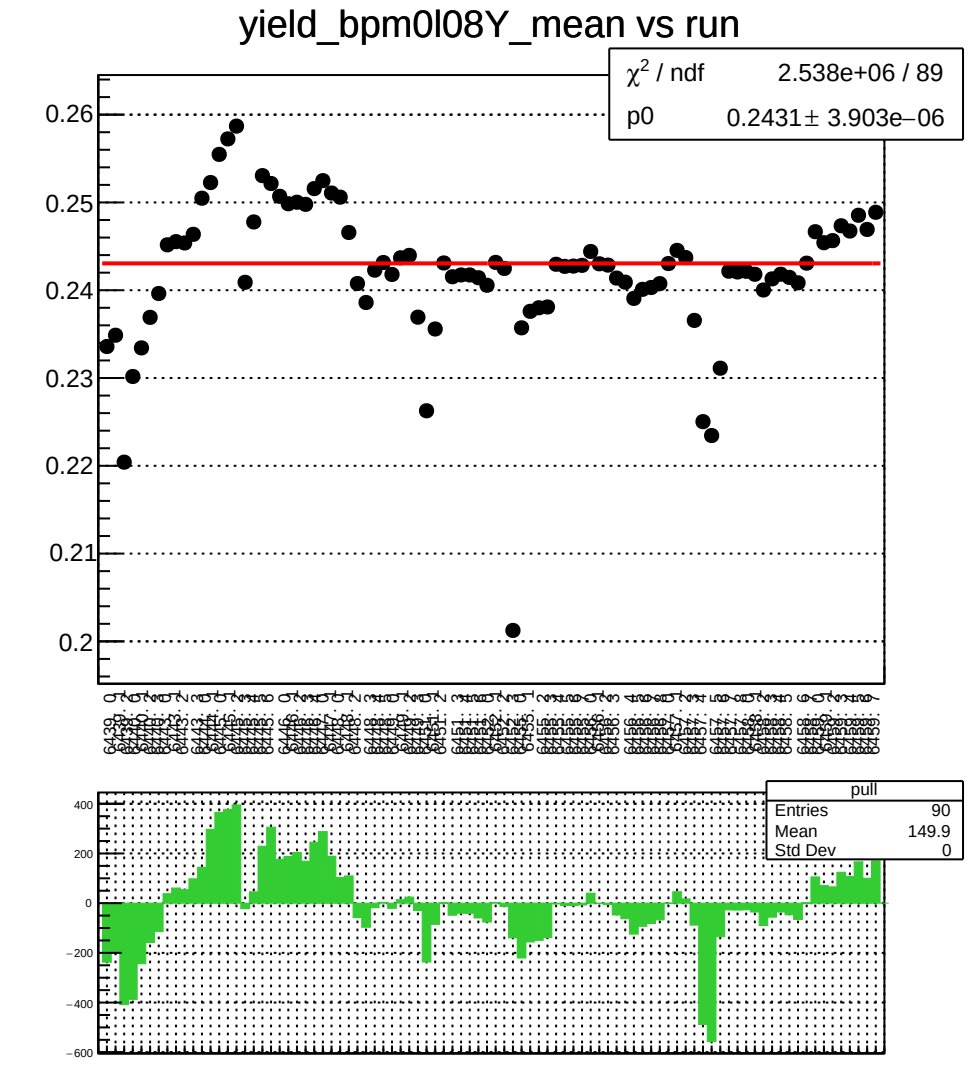

pull1D
Entries 90
Mean −3.596
Std Dev 3.774
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

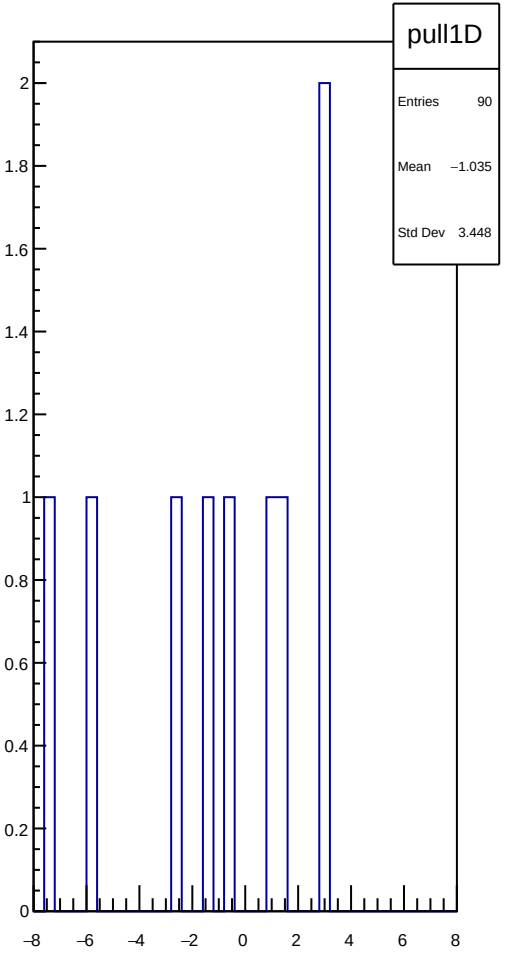

yield_bpm0l07Y_rms vs run
χ² / ndf 5.977e+04 / 89
p0 0.002327 ± 1.773e−06
0.012
0.01
0.008
0.006
0.004
0.002

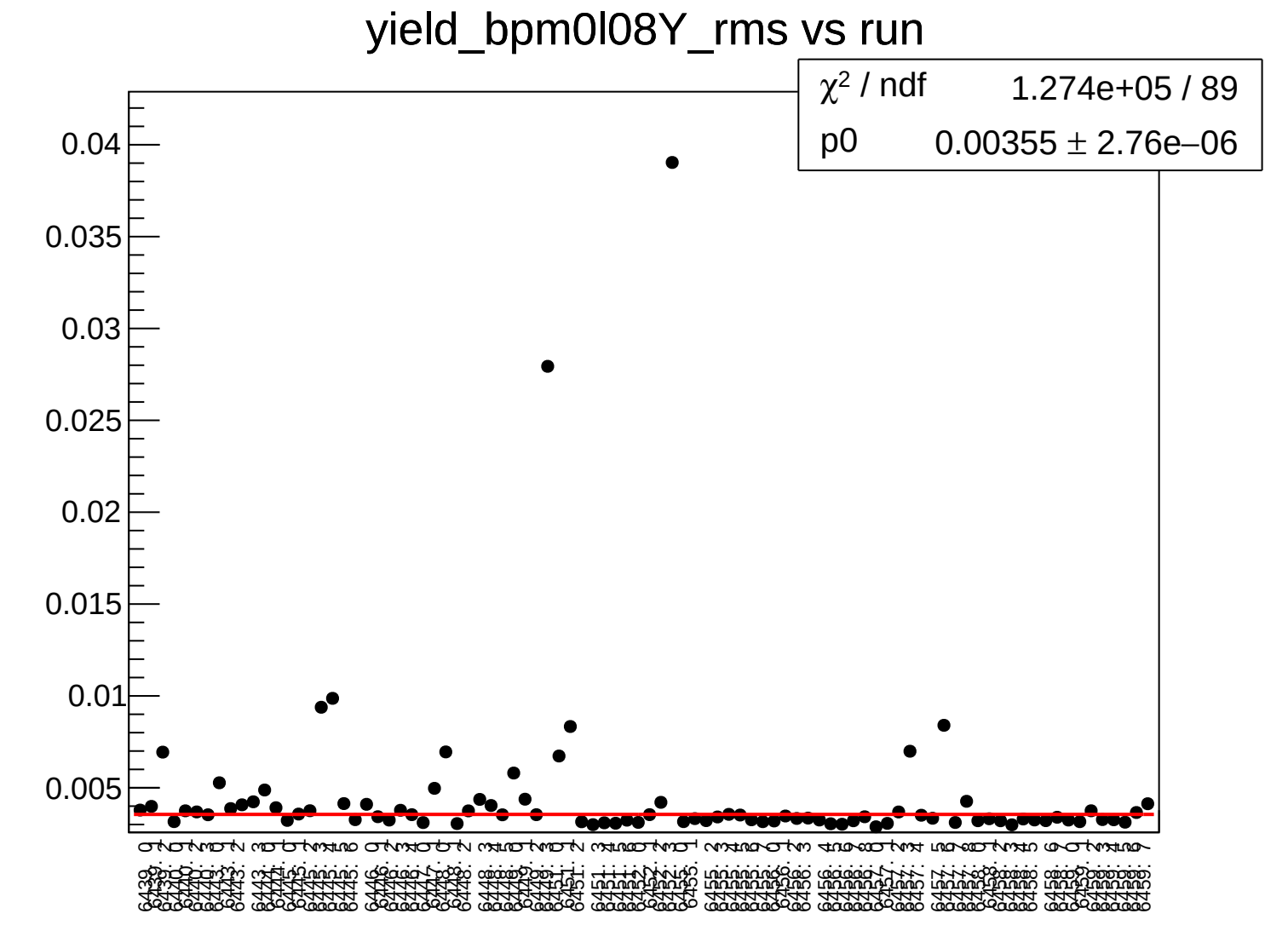

yield_bpm0l08X_mean vs run
χ² / ndf 3.722e+08 / 89
p0 −0.01691 ± 1.098e−05
pull
Entries 90
Mean −282.7
Std Dev 0

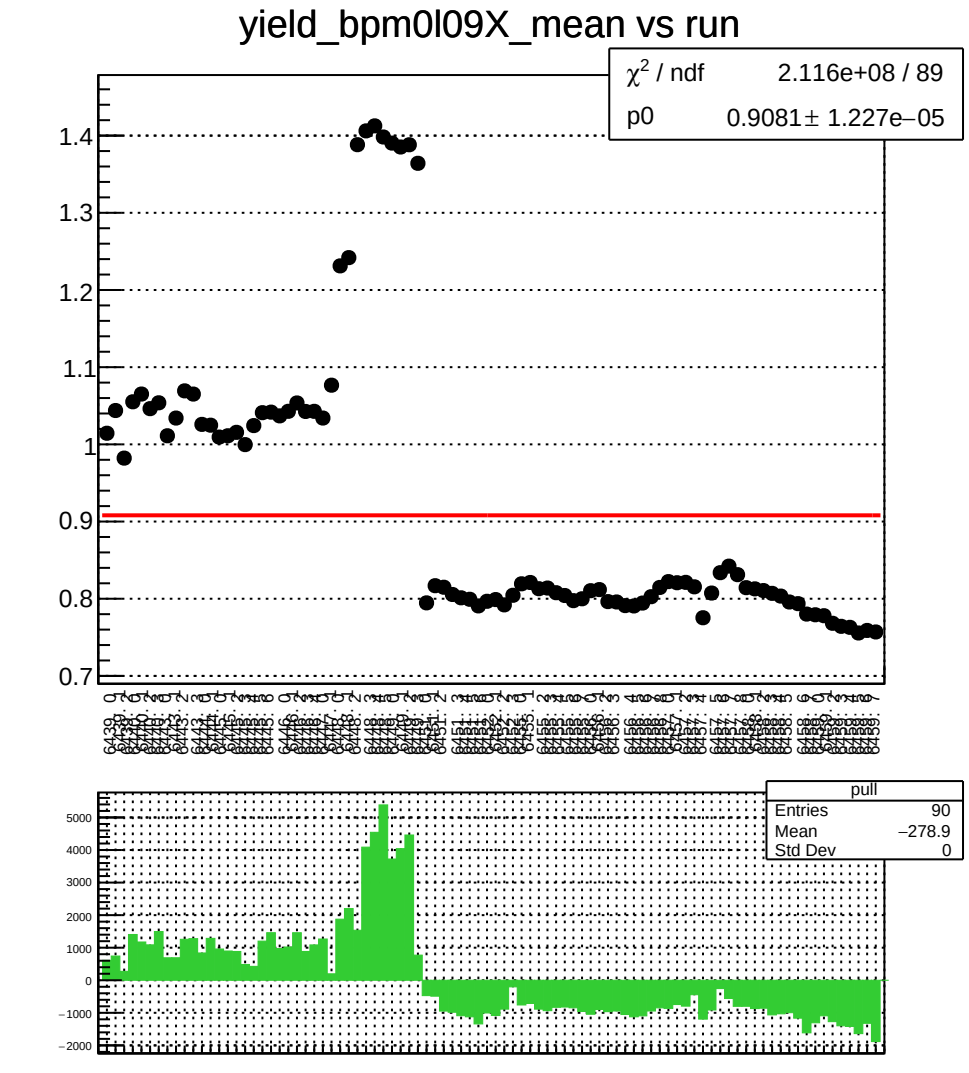

pull1D
Entries 90
Mean 0
Std Dev 0

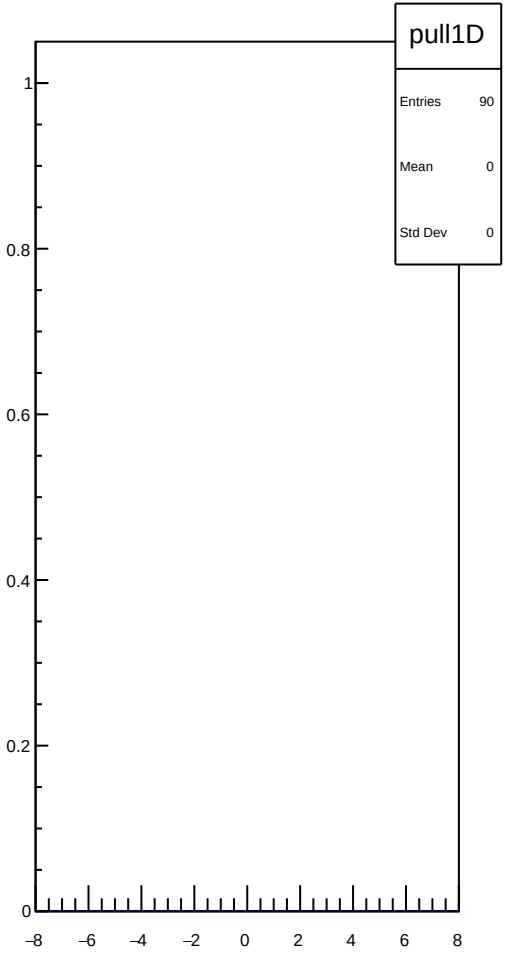

yield_bpm0l08X_rms vs run
χ^2 / ndf 1.468e+05 / 89
p0 0.009929 ± 7.764e−06
0.14
0.12
0.1
0.08
0.06
0.04
0.02

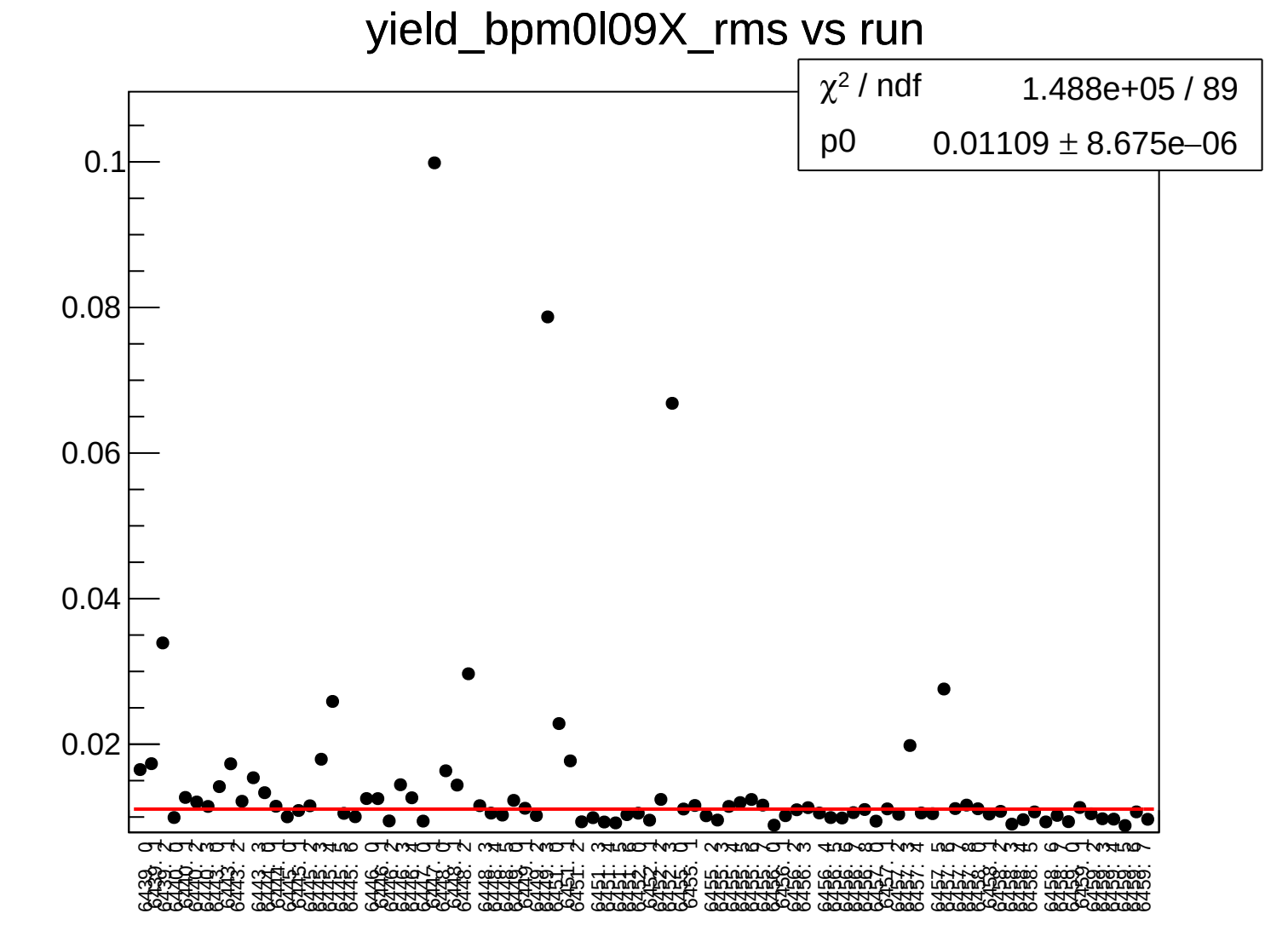

yield_bpm0l08Y_mean vs run
χ² / ndf 2.538e+06 / 89
p0 0.2431 ± 3.903e−06
0.26
0.25
0.24
0.23
0.22
0.21
0.2
pull
Entries 90
Mean 149.9
Std Dev 0
400
200
0
−200
−400
−600

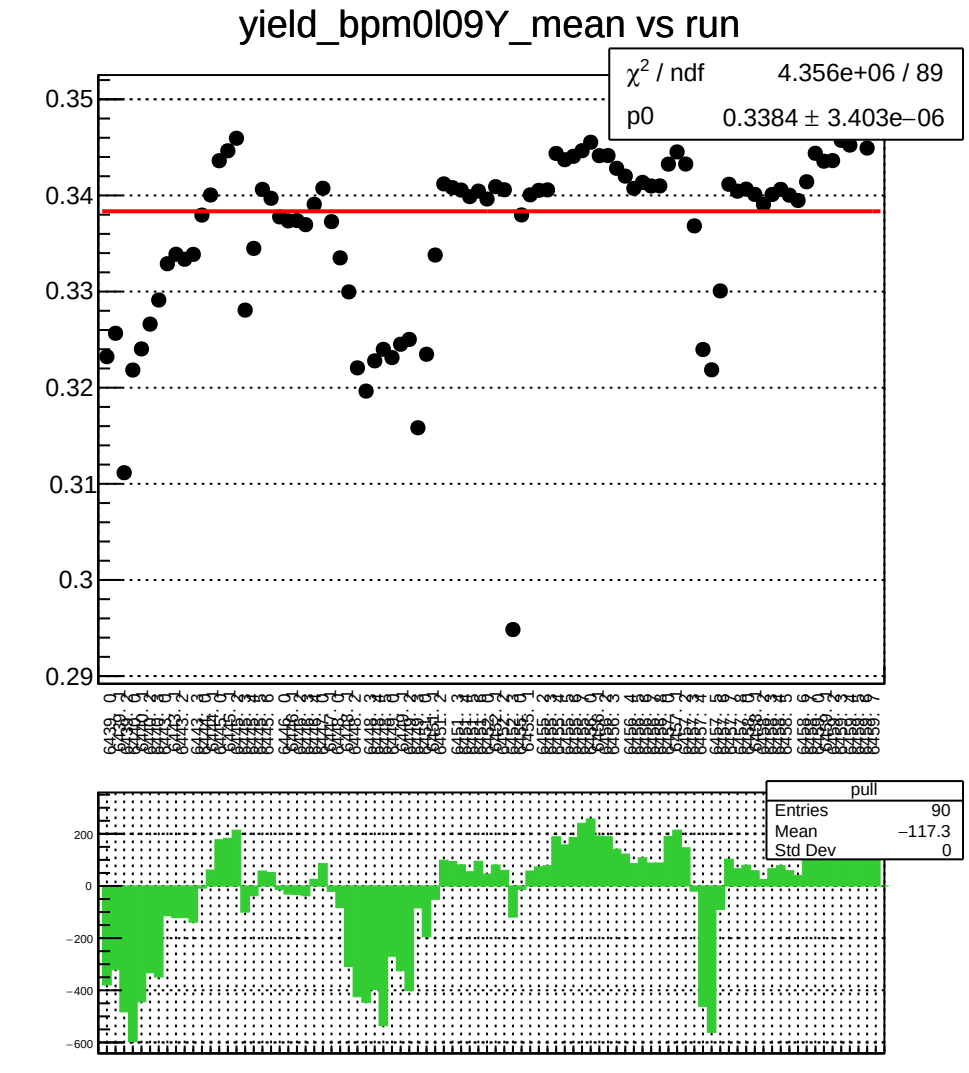

pull1D
Entries 90
Mean −1.035
Std Dev 3.448
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

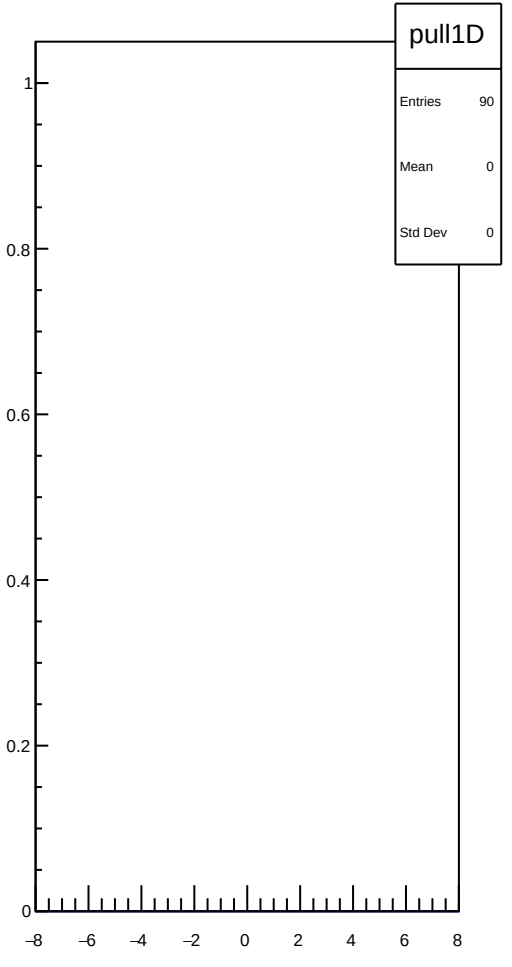

yield_bpm0l08Y_rms vs run
χ² / ndf 1.274e+05 / 89
p0 0.00355 ± 2.76e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

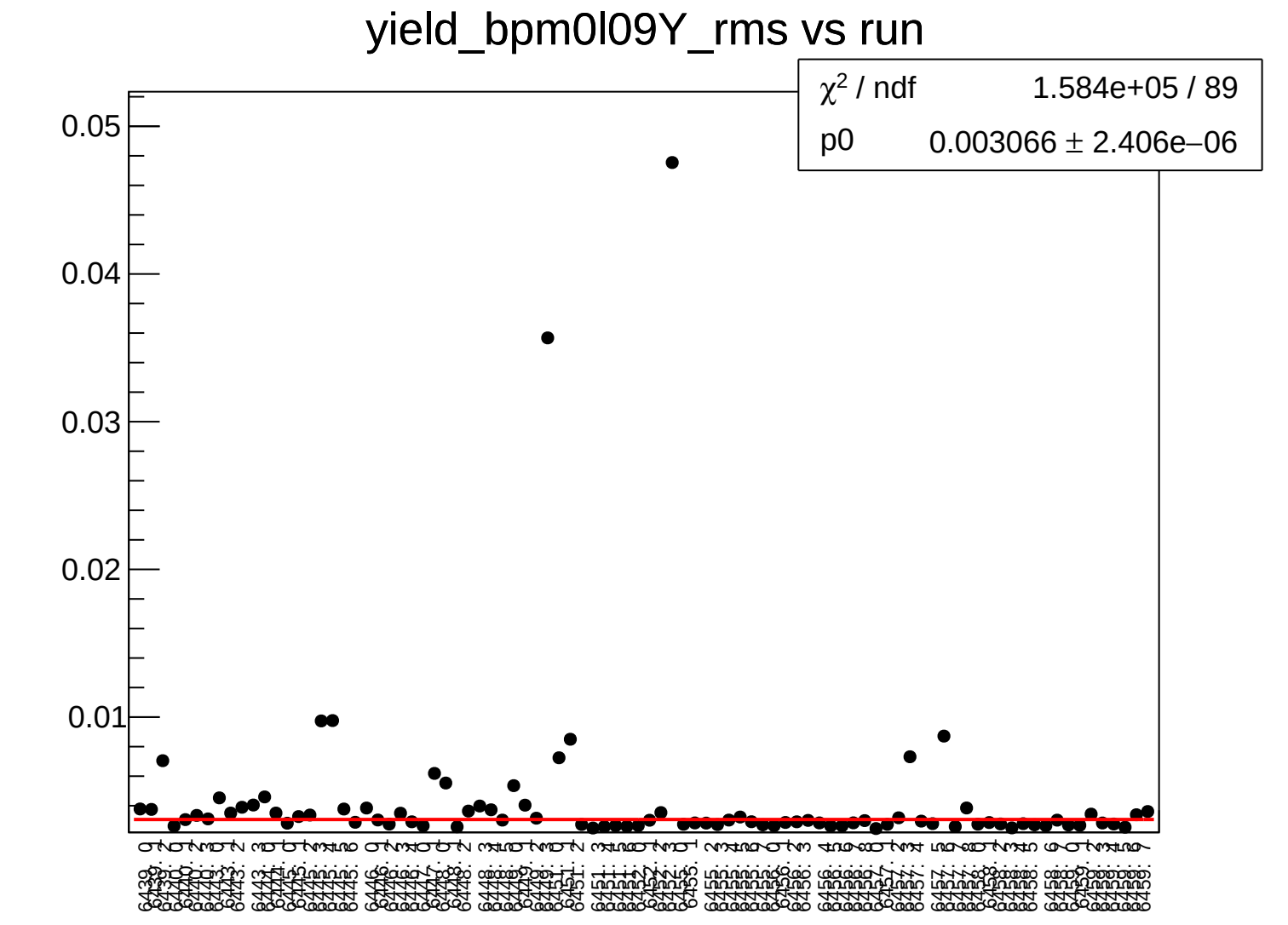

yield_bpm0l09X_mean vs run
χ² / ndf 2.116e+08 / 89
p0 0.9081 ± 1.227e−05
pull
Entries 90
Mean −278.9
Std Dev 0

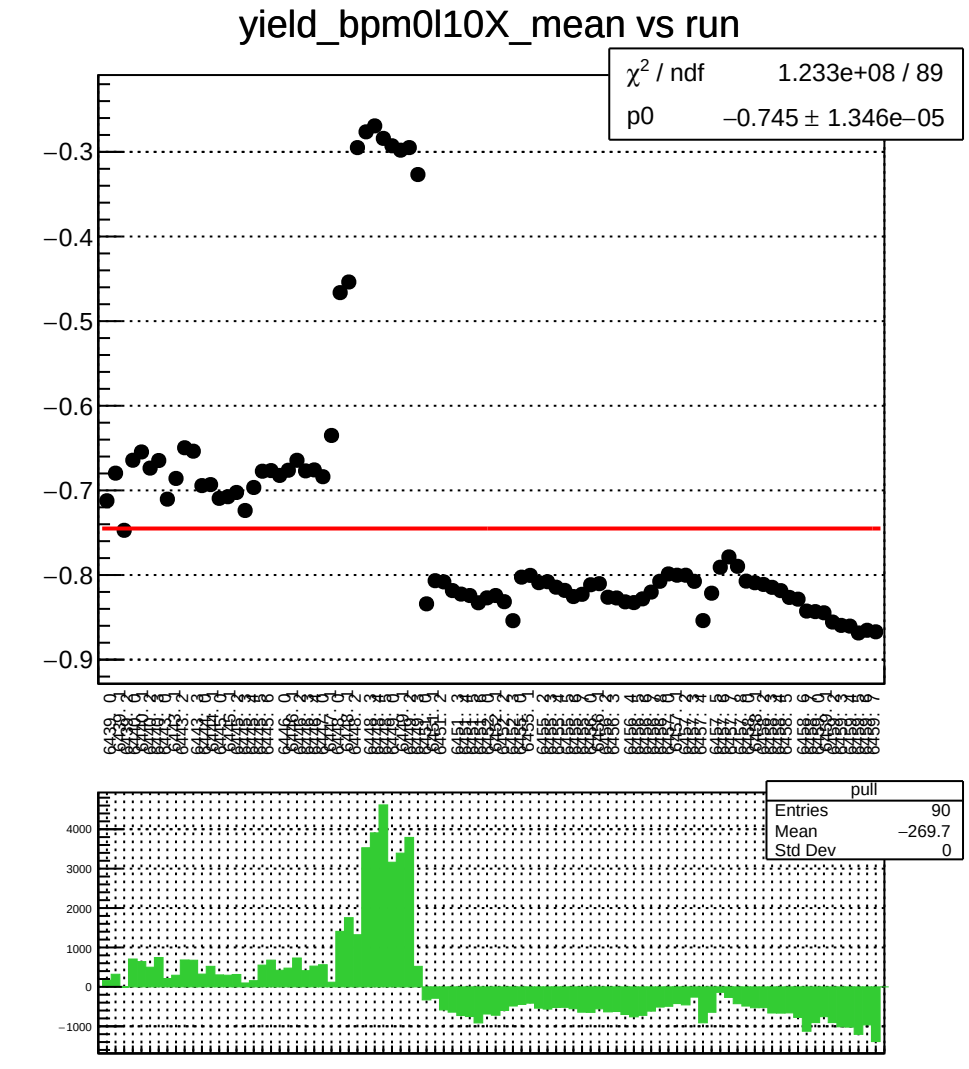

pull1D
Entries 90
Mean 0
Std Dev 0

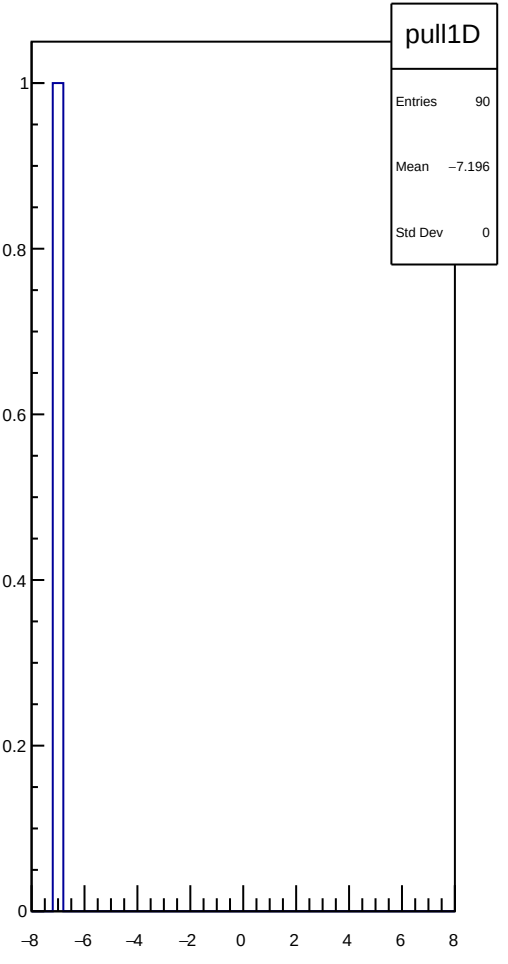

yield_bpm0l09X_rms vs run
χ² / ndf 1.488e+05 / 89
p0 0.01109 ± 8.675e–06
0.1
0.08
0.06
0.04
0.02

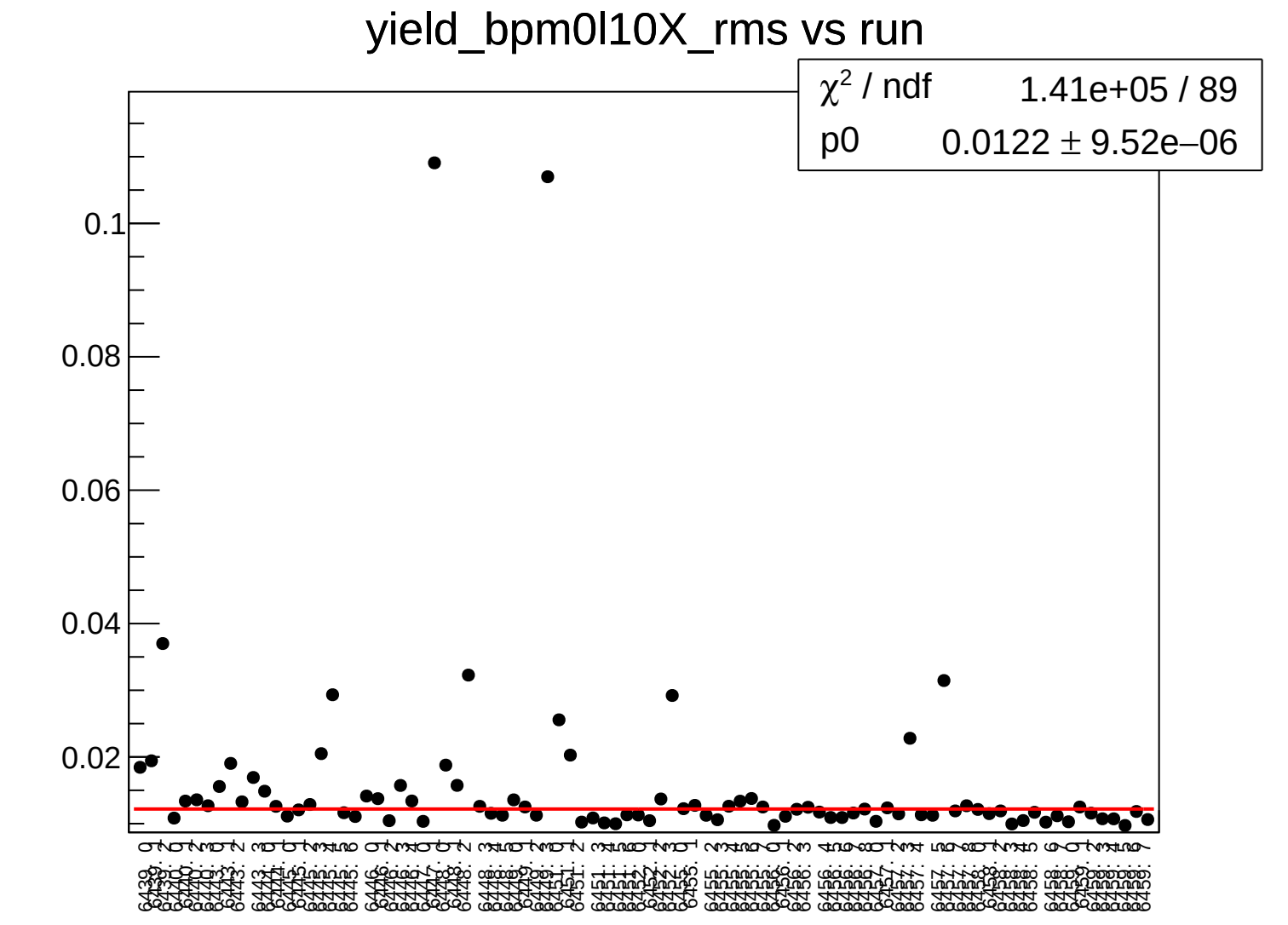

yield_bpm0l09Y_mean vs run
χ² / ndf 4.356e+06 / 89
p0 0.3384 ± 3.403e−06
0.35
0.34
0.33
0.32
0.31
0.3
0.29
pull
Entries 90
Mean −117.3
Std Dev 0
200
0
−200
−400
−600

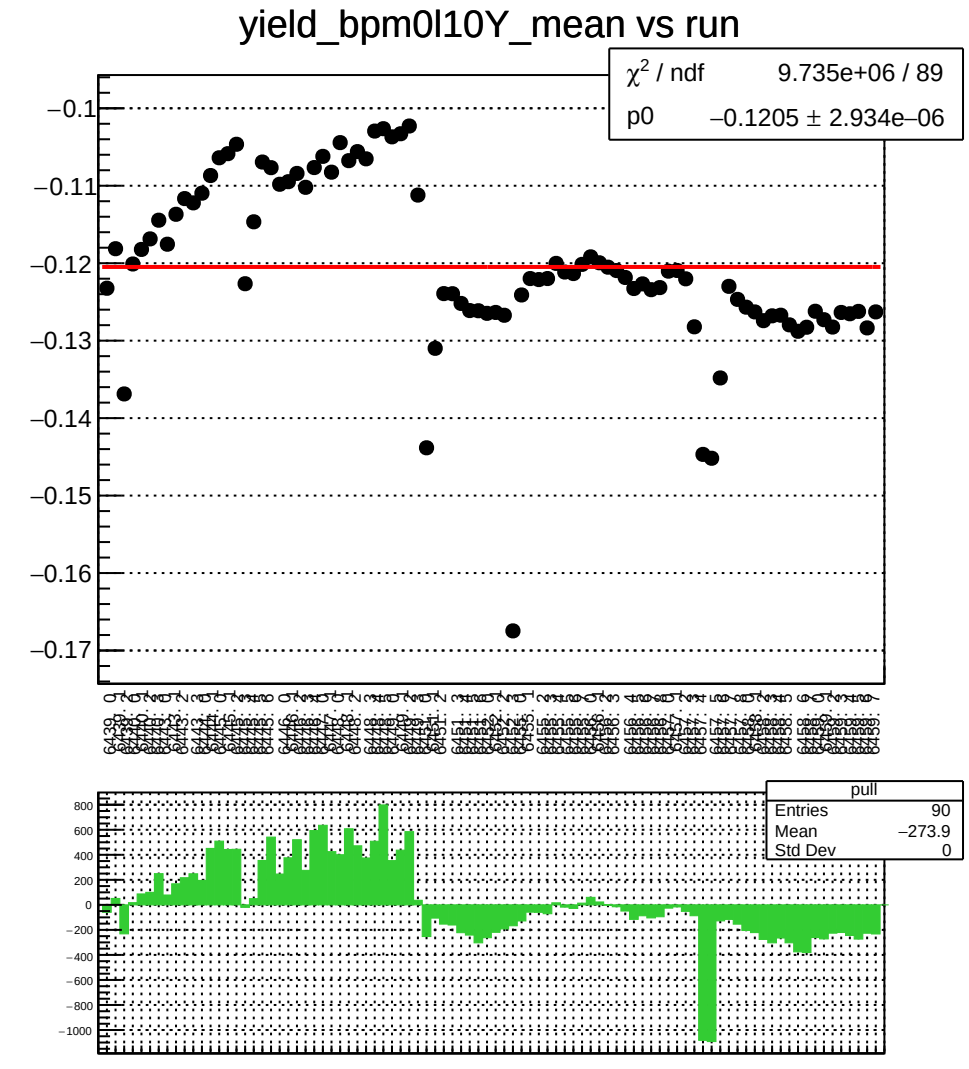

pull1D
Entries 90
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

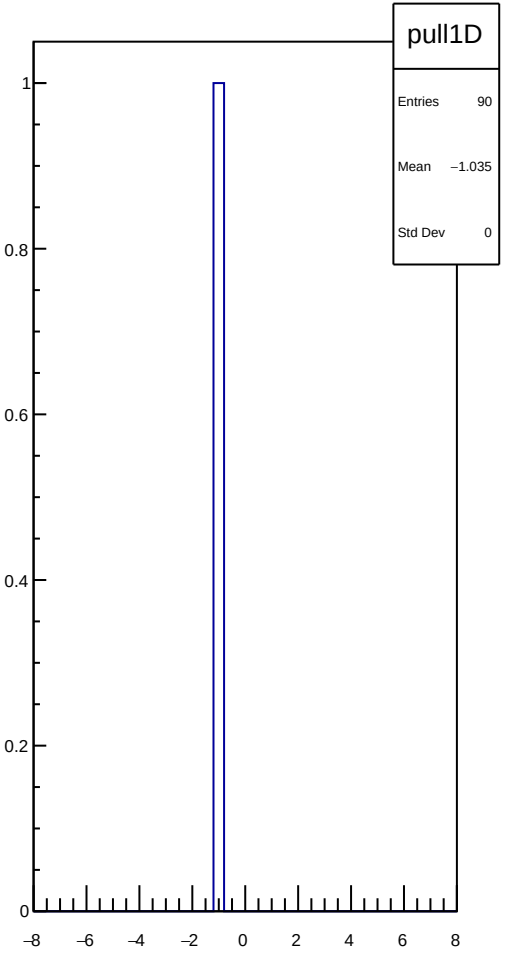

yield_bpm0l09Y_rms vs run
χ² / ndf 1.584e+05 / 89
p0 0.003066 ± 2.406e−06
0.05
0.04
0.03
0.02
0.01

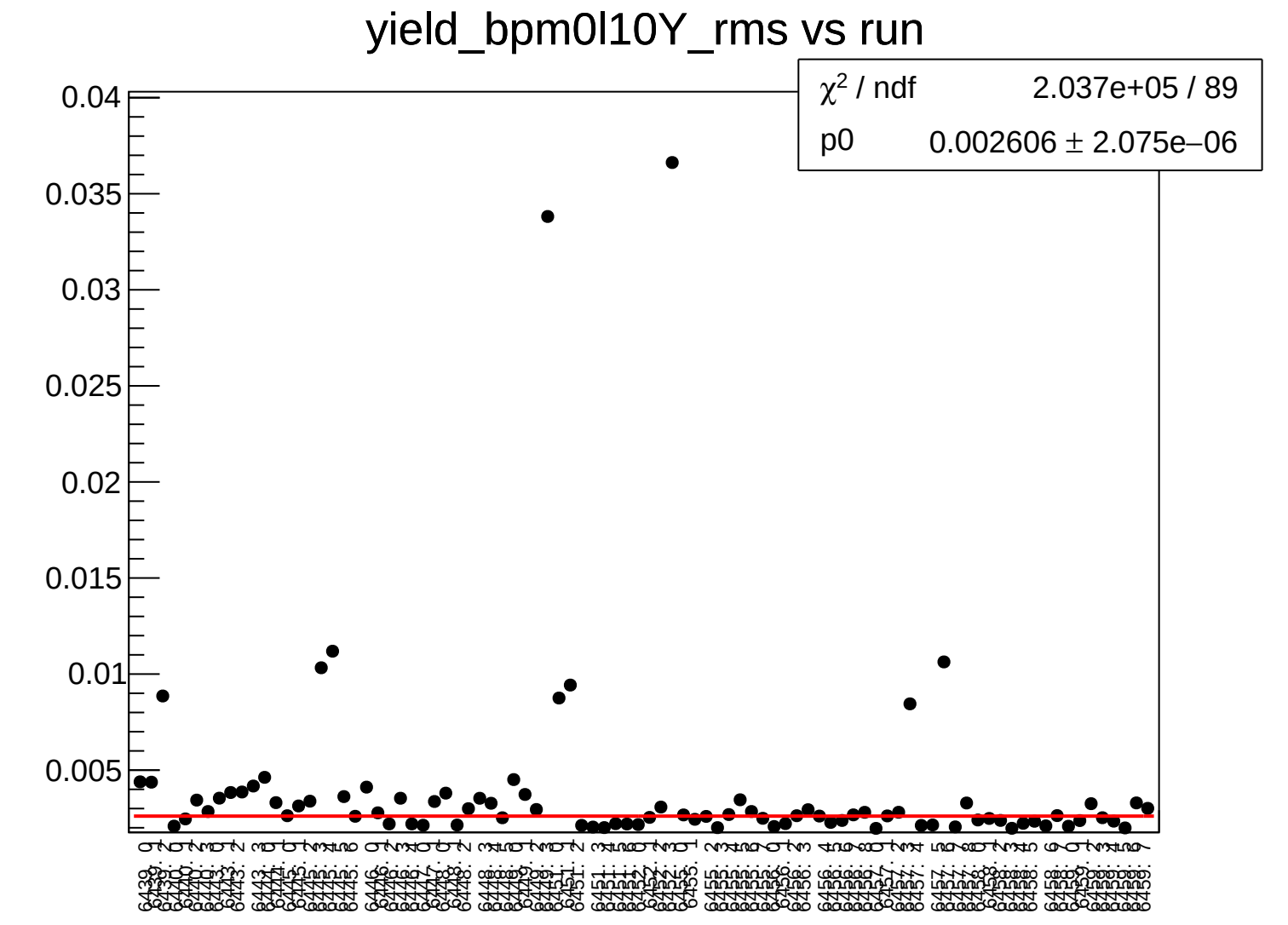

yield_bpm0l10X_mean vs run
χ² / ndf 1.233e+08 / 89
p0 −0.745 ± 1.346e−05
−0.3
−0.4
−0.5
−0.6
−0.7
−0.8
−0.9
pull
Entries 90
Mean −269.7
Std Dev 0
4000
3000
2000
1000
0
−1000

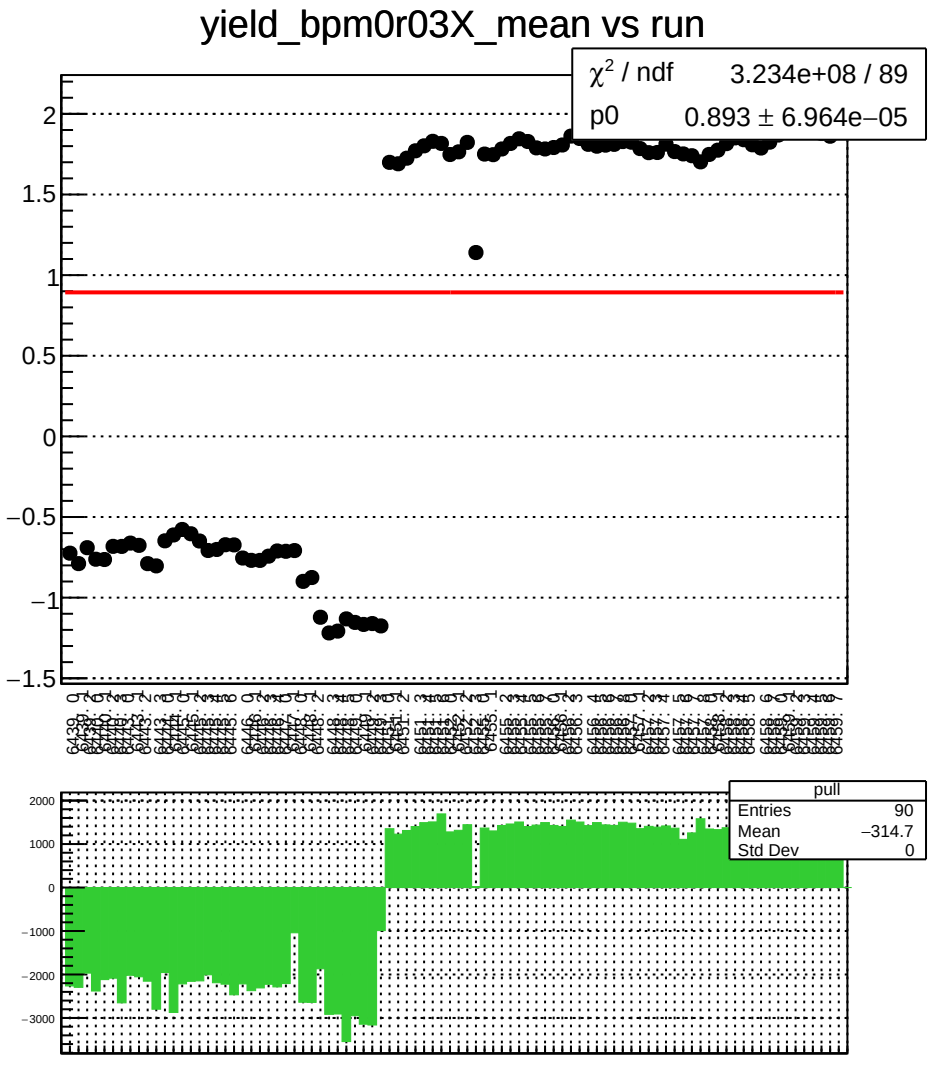

pull1D
Entries 90
Mean −7.196
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

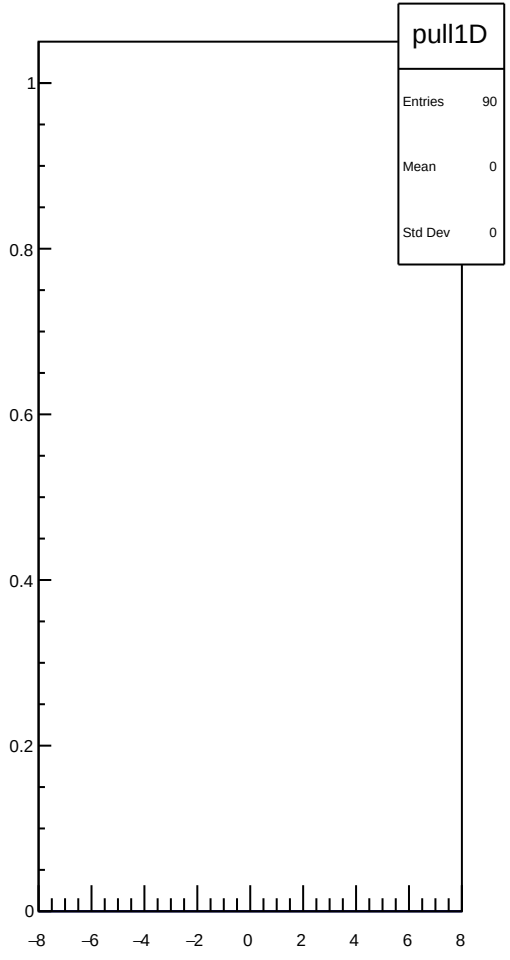

yield_bpm0l10X_rms vs run
χ^2 / ndf 1.41e+05 / 89
p0 0.0122 ± 9.52e−06
0.1
0.08
0.06
0.04
0.02

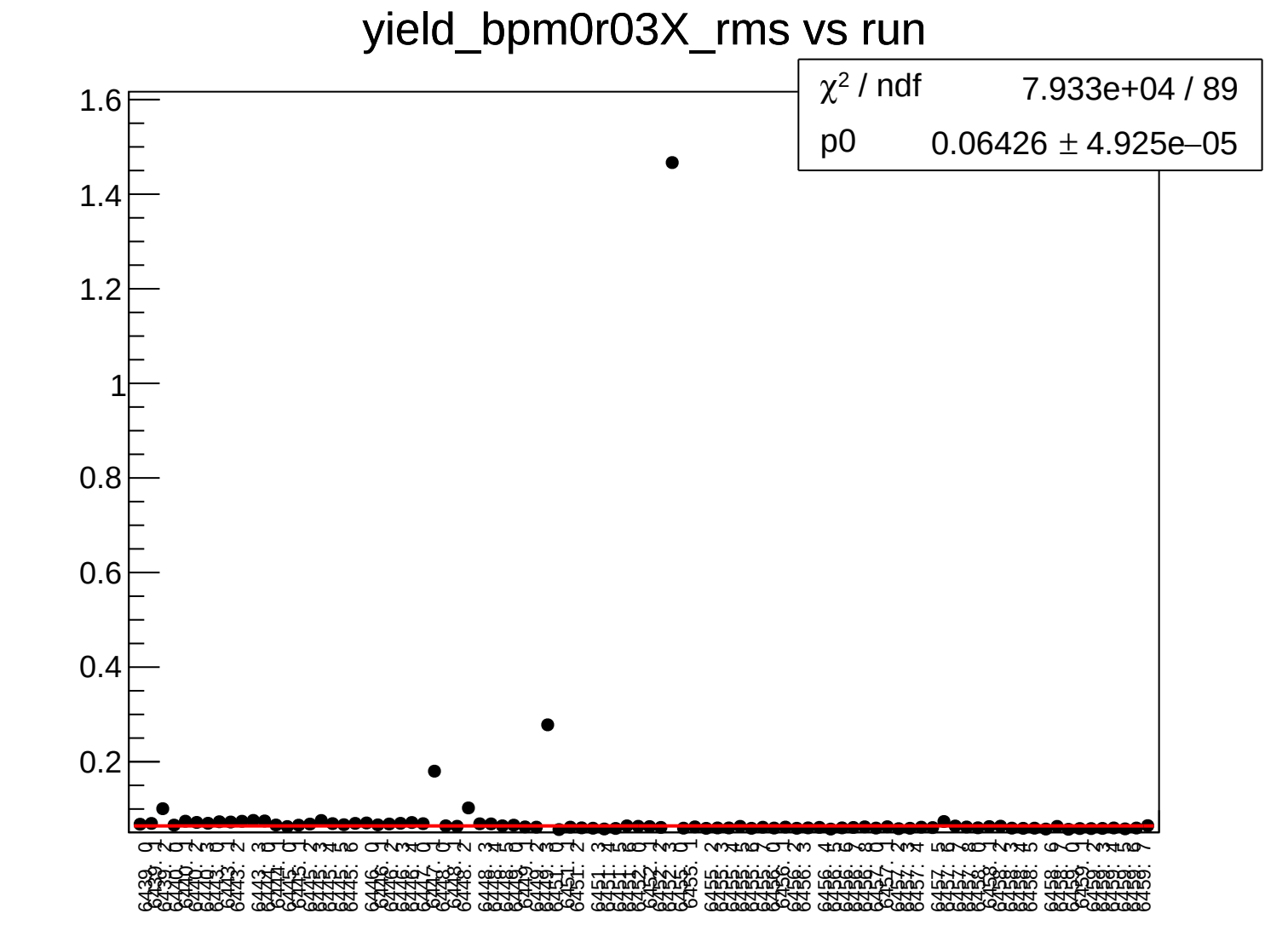

yield_bpm0l10Y_mean vs run
χ² / ndf 9.735e+06 / 89
p0 −0.1205 ± 2.934e−06
−0.1
−0.11
−0.12
−0.13
−0.14
−0.15
−0.16
−0.17
pull
Entries 90
Mean −273.9
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800
−1000

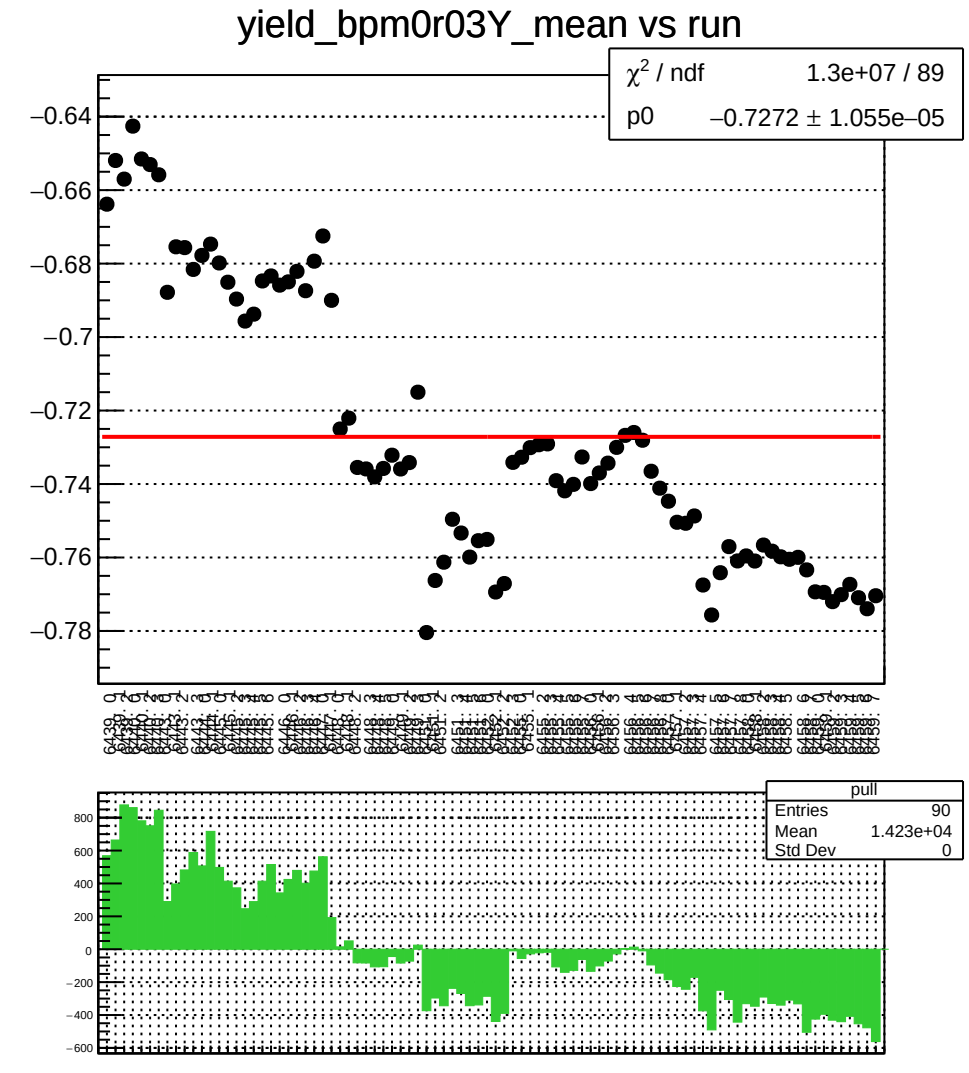

pull1D
Entries 90
Mean −1.035
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

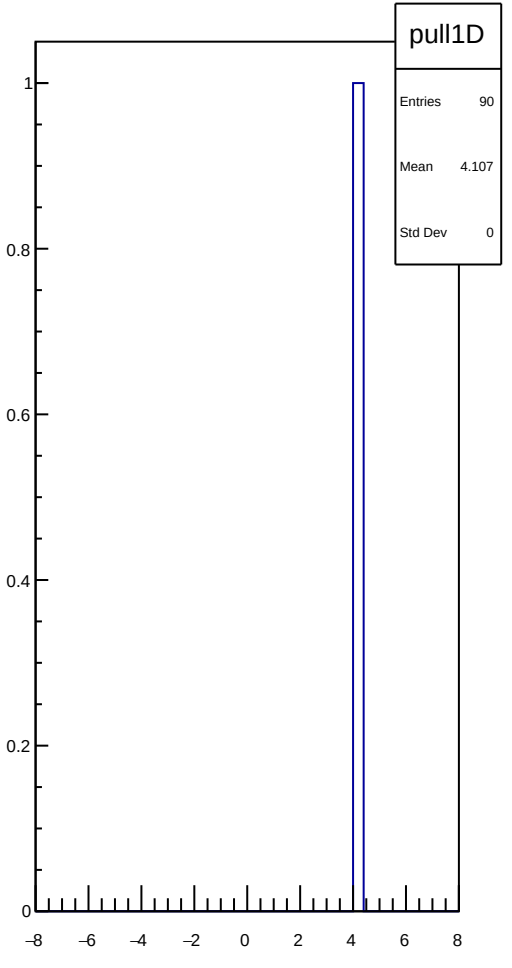

yield_bpm0l10Y_rms vs run
χ² / ndf 2.037e+05 / 89
p0 0.002606 ± 2.075e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

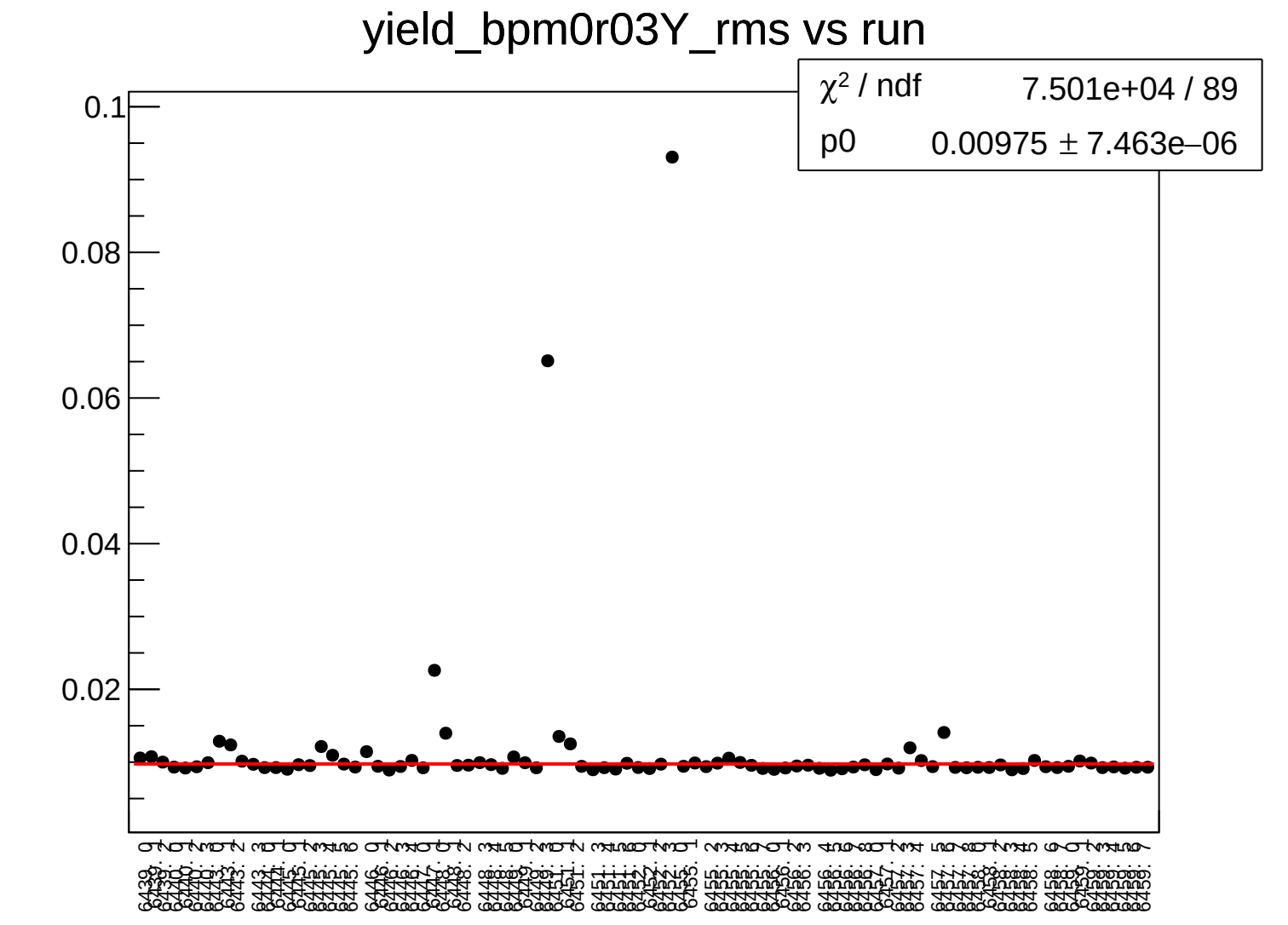

yield_bpm0r03X_mean vs run
χ² / ndf 3.234e+08 / 89
p0 0.893 ± 6.964e−05
pull
Entries 90
Mean −314.7
Std Dev 0

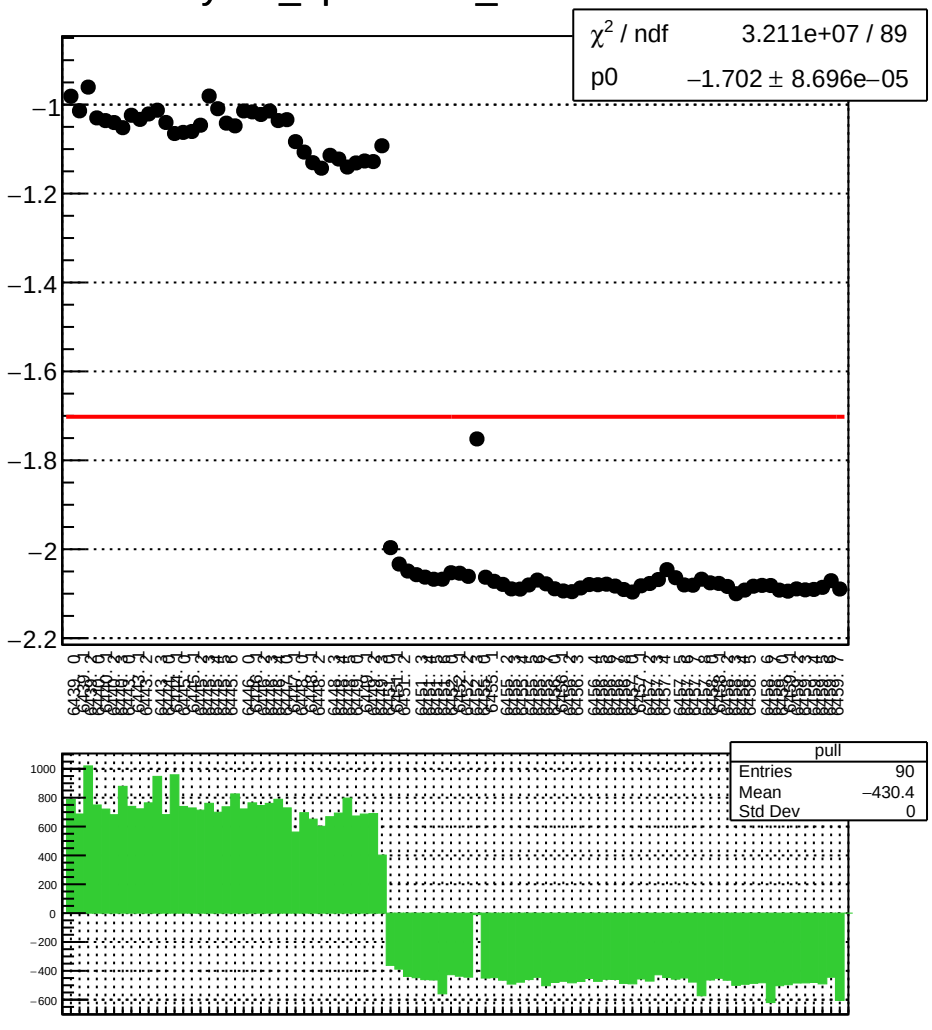

pull1D
Entries 90
Mean 0
Std Dev 0

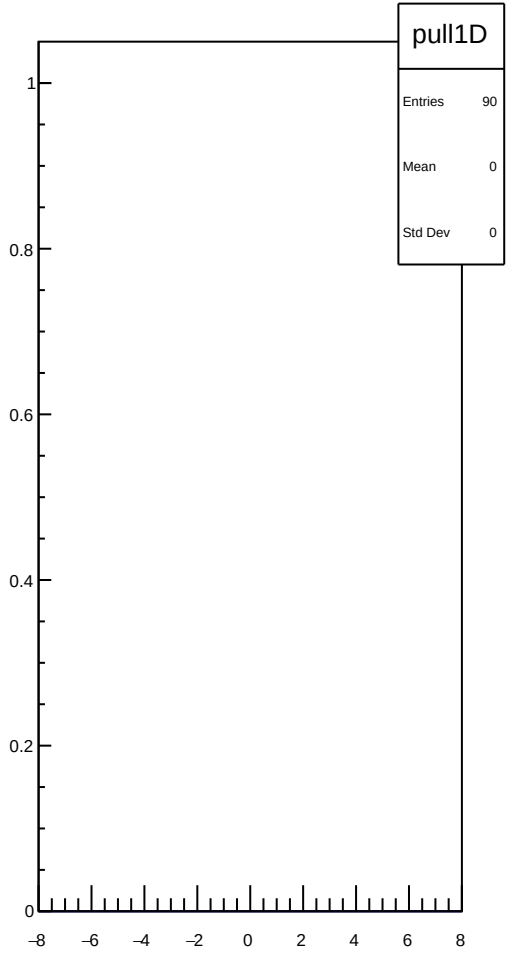

yield_bpm0r03X_rms vs run
χ² / ndf 7.933e+04 / 89
p0 0.06426 ± 4.925e−05
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

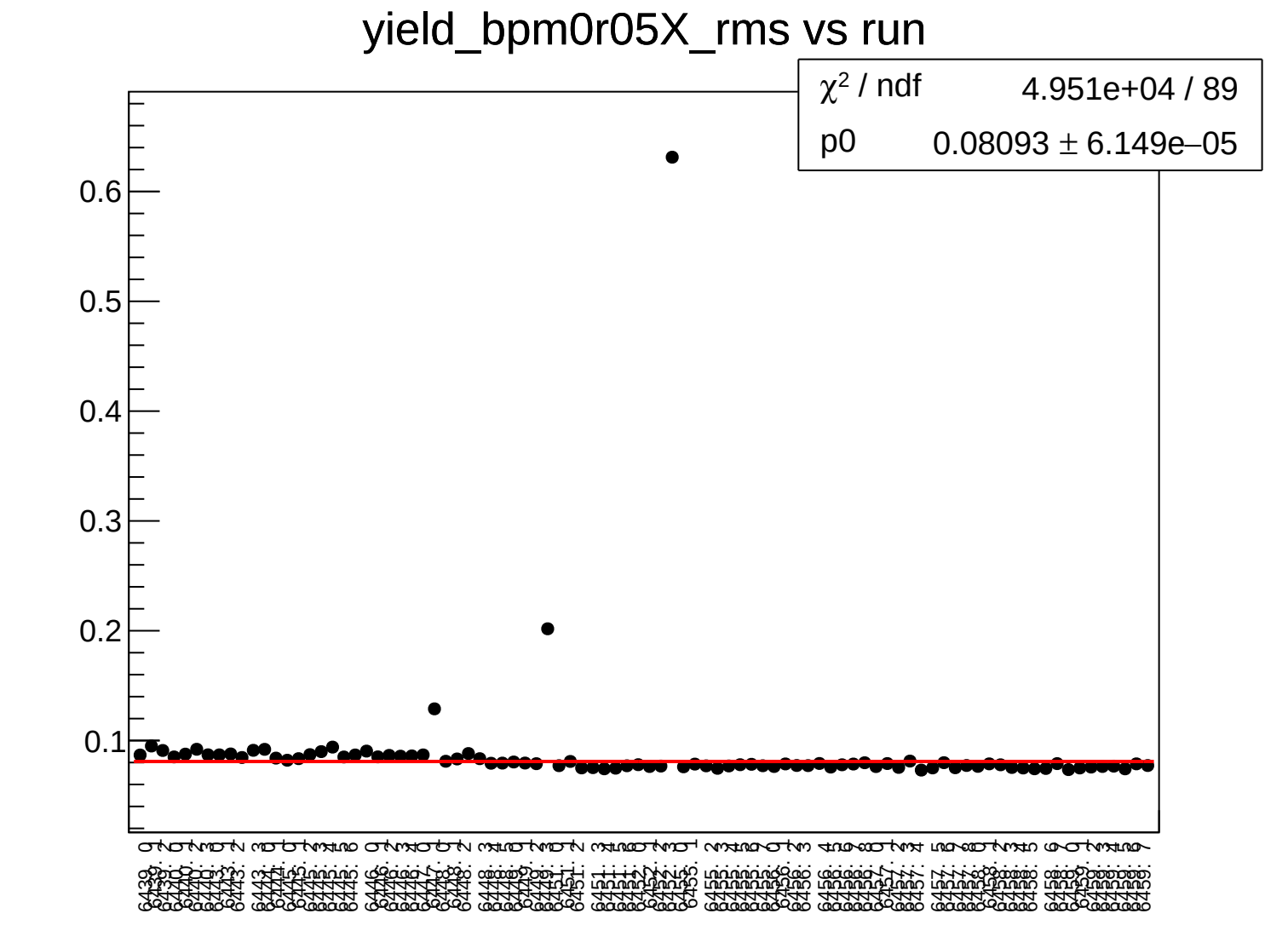

yield_bpm0r03Y_mean vs run
χ² / ndf 1.3e+07 / 89
p0 −0.7272 ± 1.055e−05
−0.64
−0.66
−0.68
−0.7
−0.72
−0.74
−0.76
−0.78
pull
Entries 90
Mean 1.423e+04
Std Dev 0
800
600
400
200
0
−200
−400
−600

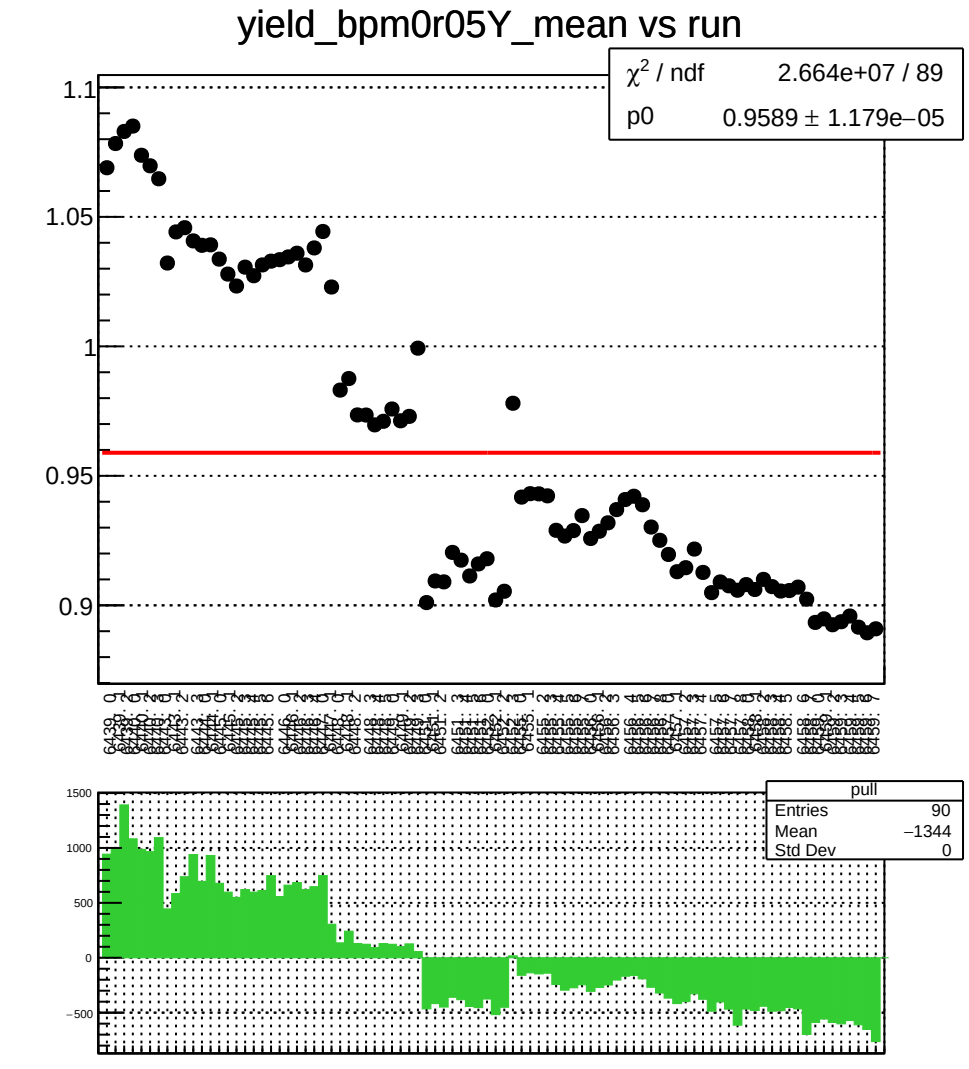

pull1D
Entries 90
Mean 4.107
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

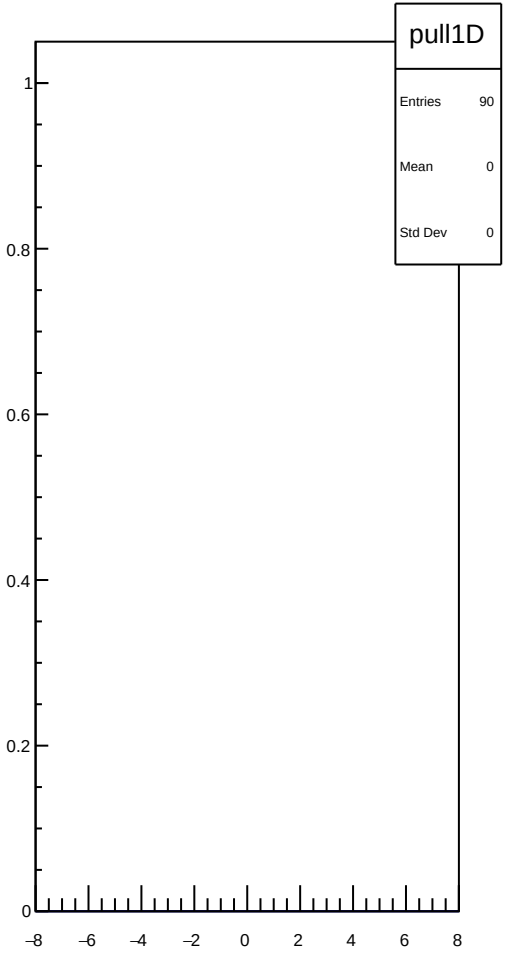

yield_bpm0r03Y_rms vs run
χ² / ndf 7.501e+04 / 89
p0 0.00975 ± 7.463e–06
0.1
0.08
0.06
0.04
0.02

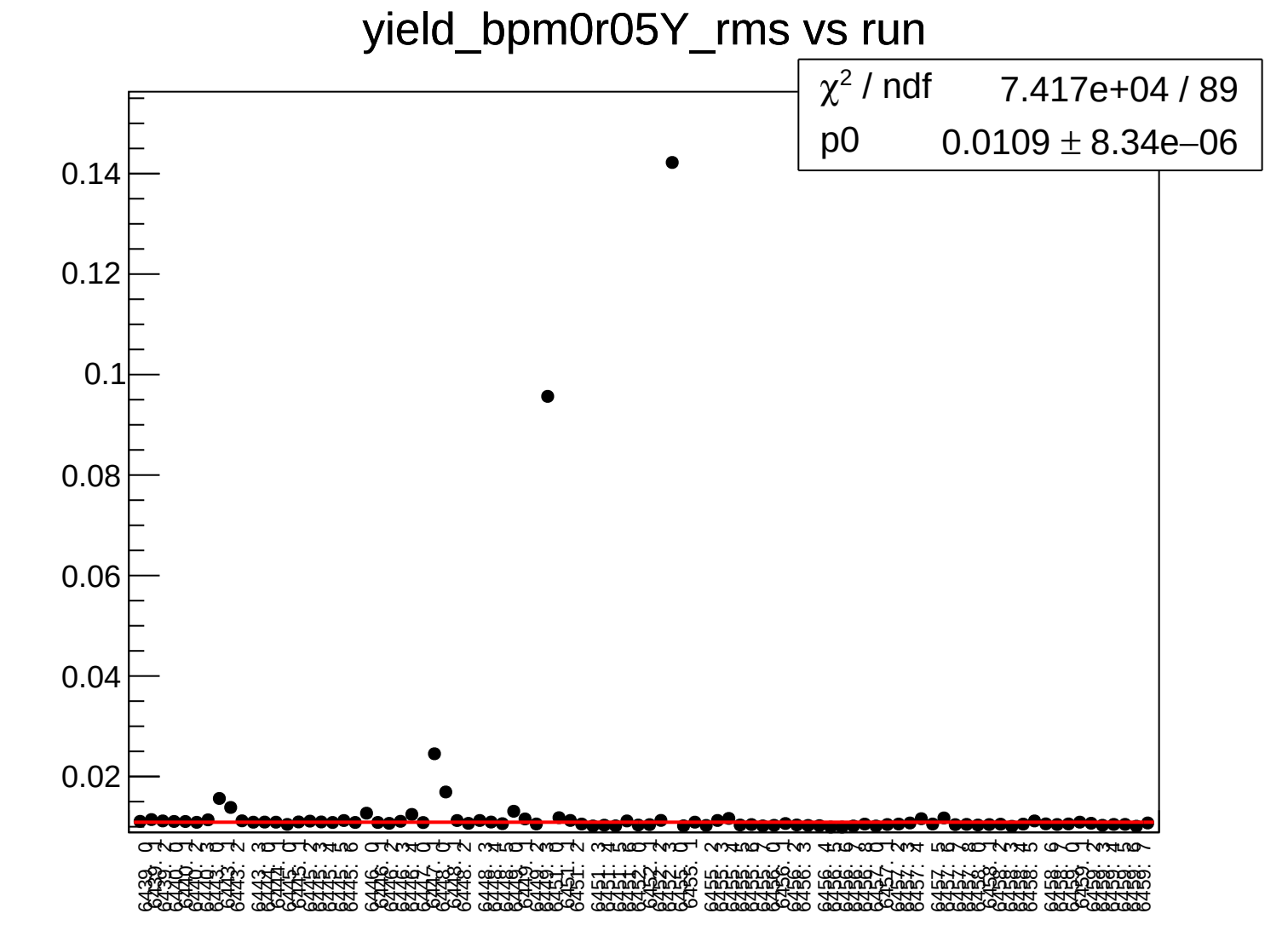

yield_bpm0r05X_mean vs run
χ² / ndf 3.211e+07 / 89
p0 −1.702 ± 8.696e−05
pull
Entries 90
Mean −430.4
Std Dev 0

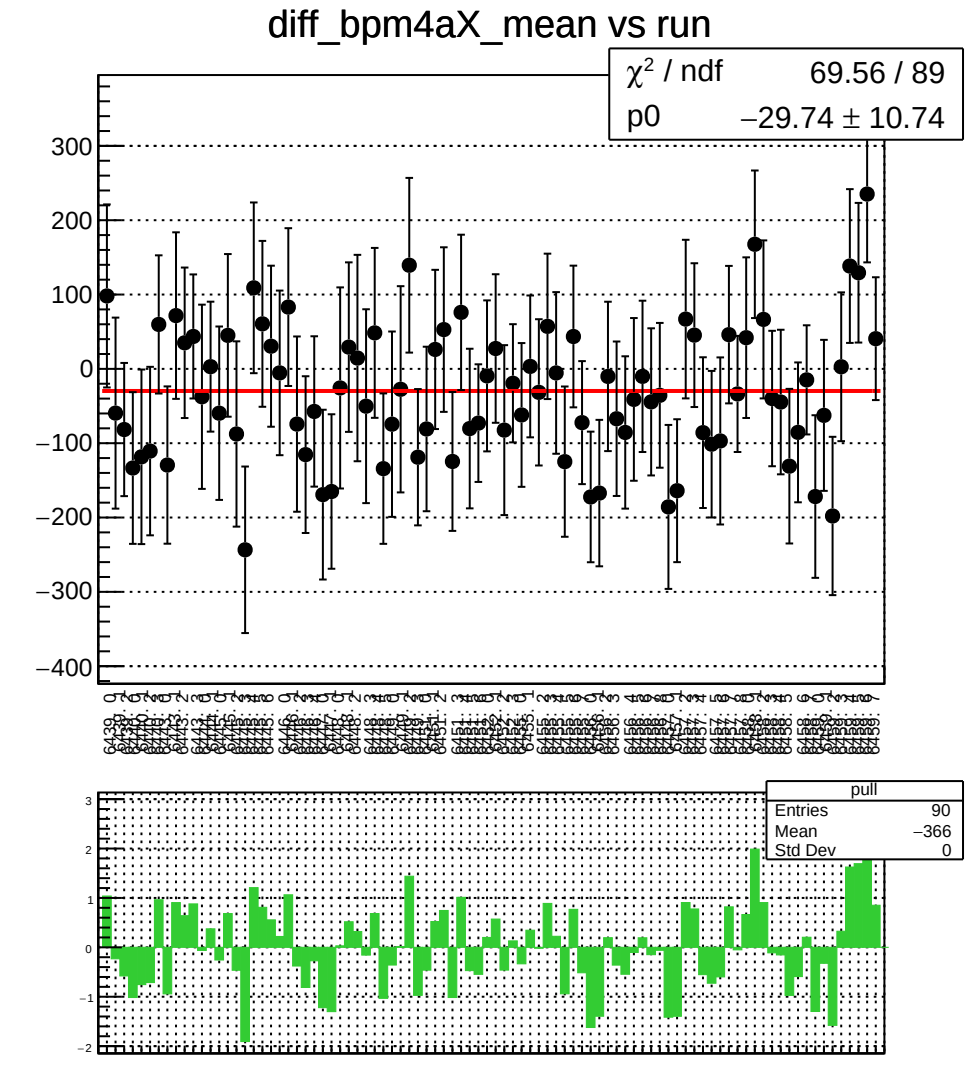

pull1D
Entries 90
Mean 0
Std Dev 0

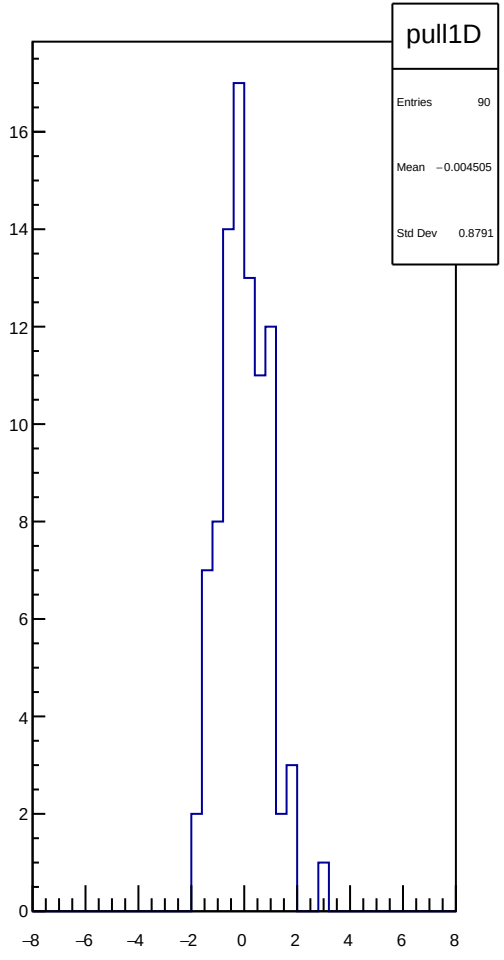

yield_bpm0r05X_rms vs run
χ² / ndf 4.951e+04 / 89
p0 0.08093 ± 6.149e–05
0.6
0.5
0.4
0.3
0.2
0.1

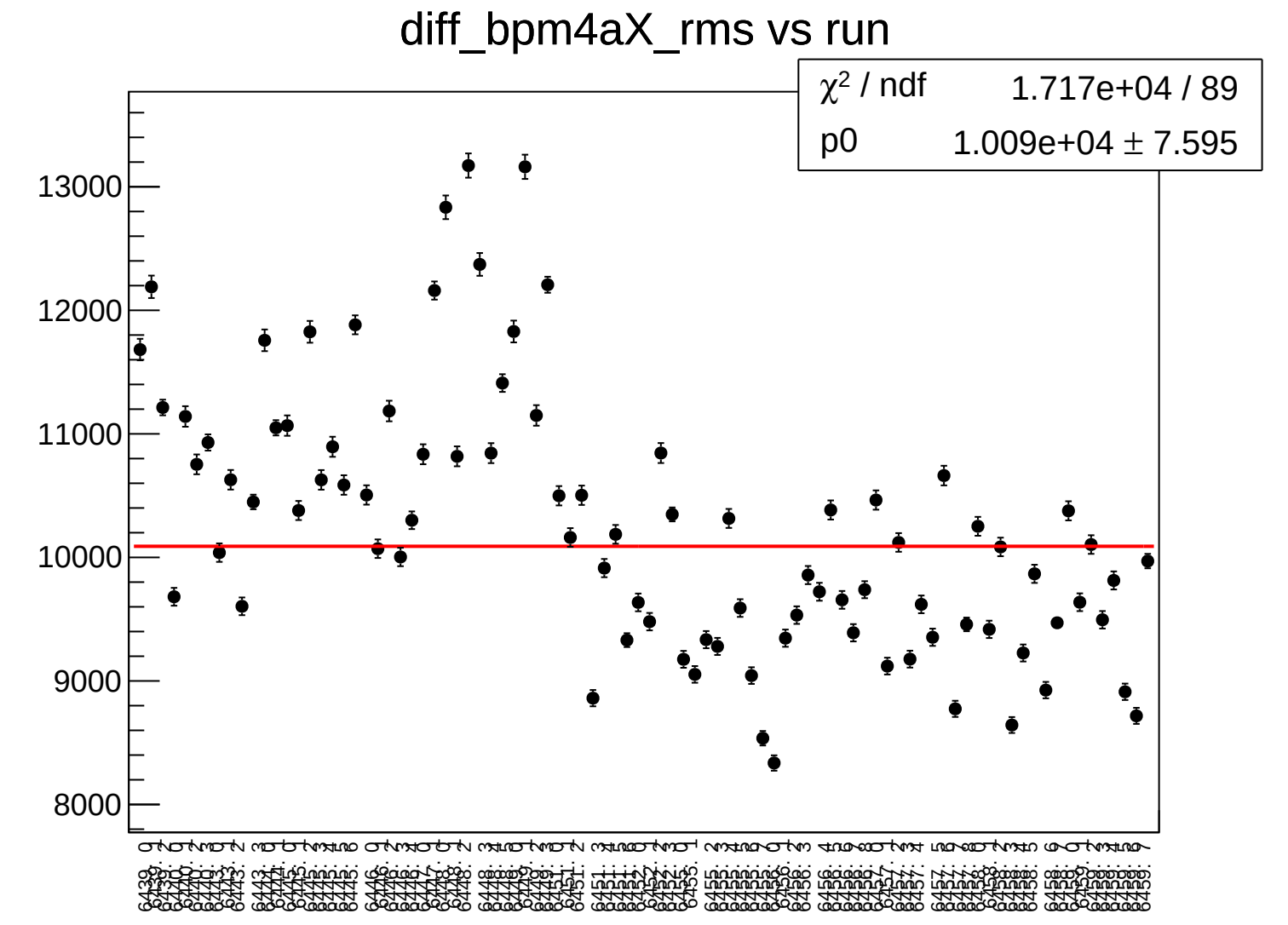

yield_bpm0r05Y_mean vs run
χ² / ndf 2.664e+07 / 89
p0 0.9589 ± 1.179e−05
1.1
1.05
1
0.95
0.9
pull
Entries 90
Mean −1344
Std Dev 0
1500
1000
500
0
−500

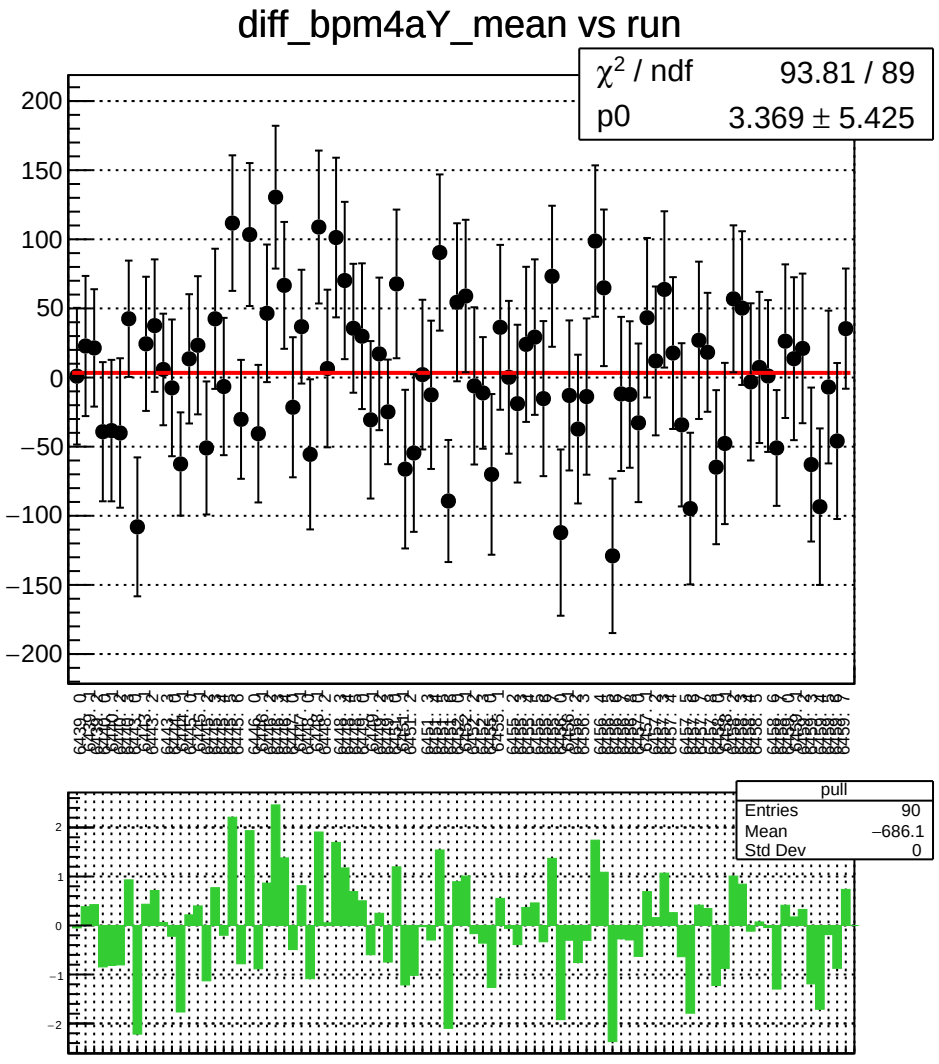

pull1D
Entries 90
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

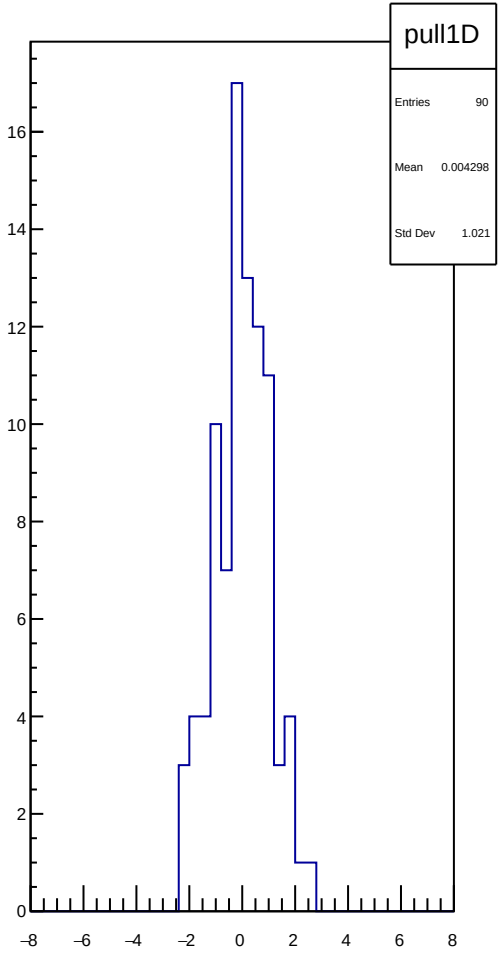

yield_bpm0r05Y_rms vs run
χ^2 / ndf 7.417e+04 / 89
p0 0.0109 ± 8.34e−06
0.14
0.12
0.1
0.08
0.06
0.04
0.02

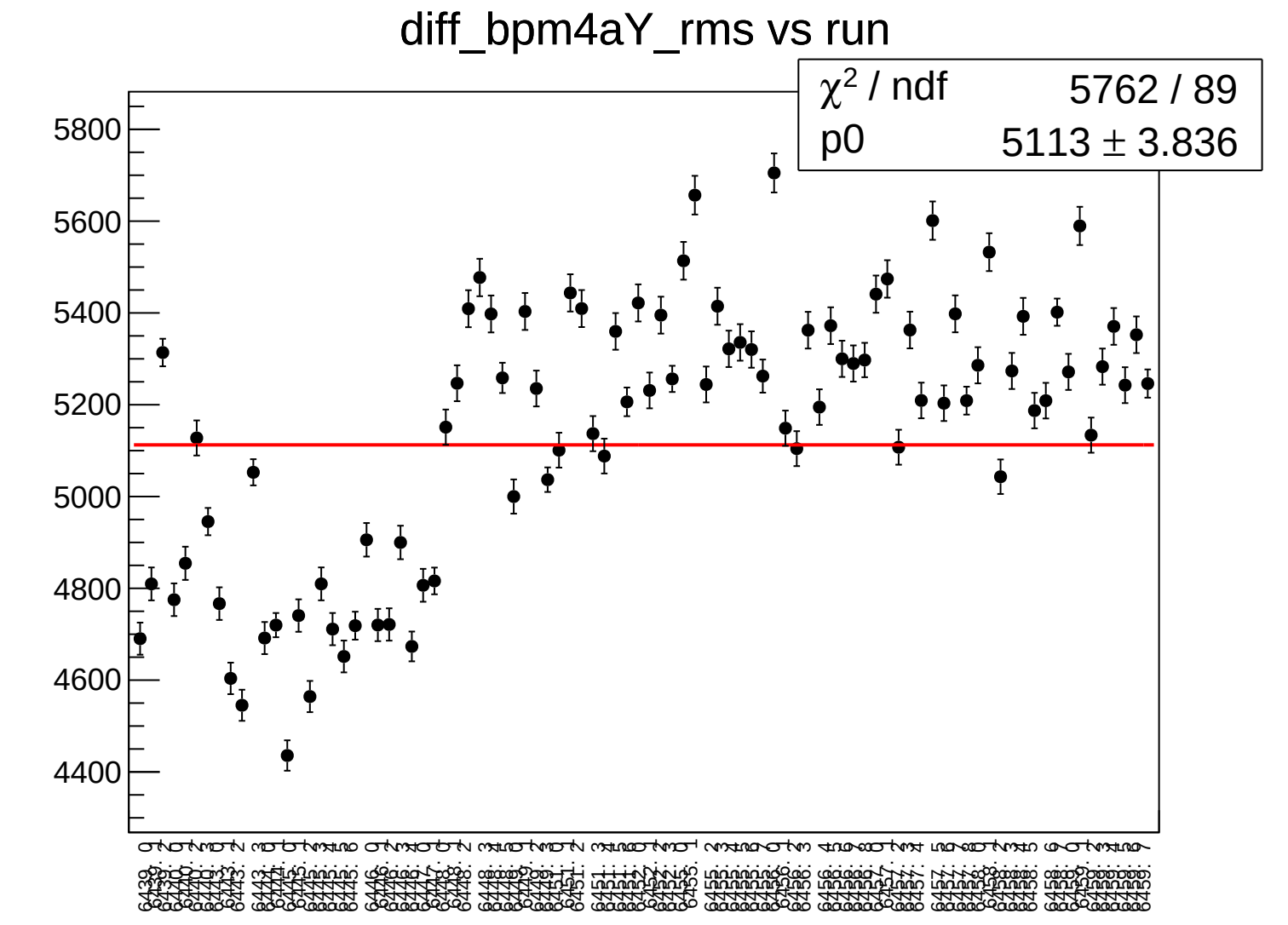

diff_bpm4aX_mean vs run
χ² / ndf 69.56 / 89
p0 −29.74 ± 10.74
300
200
100
0
−100
−200
−300
−400
pull
Entries 90
Mean −366
Std Dev 0
3
2
1
0
−1
−2

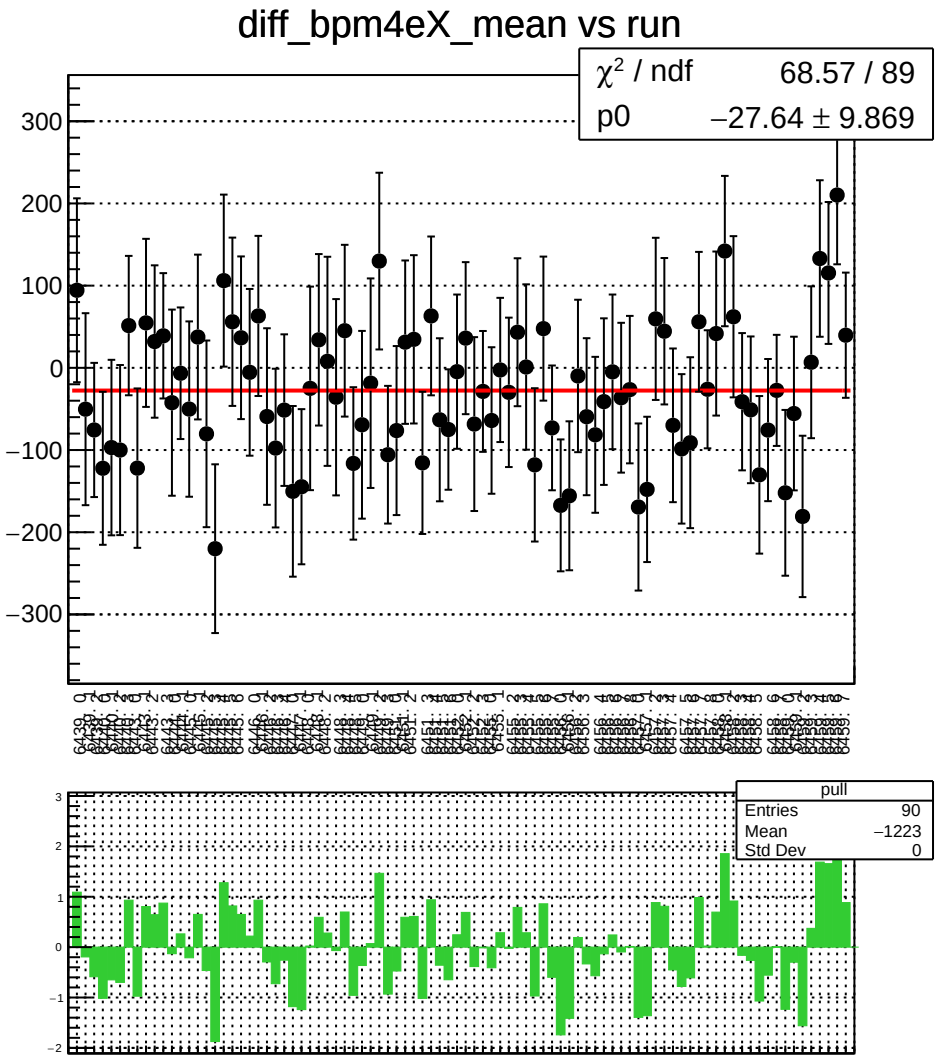

pull1D
Entries 90
Mean −0.004505
Std Dev 0.8791
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

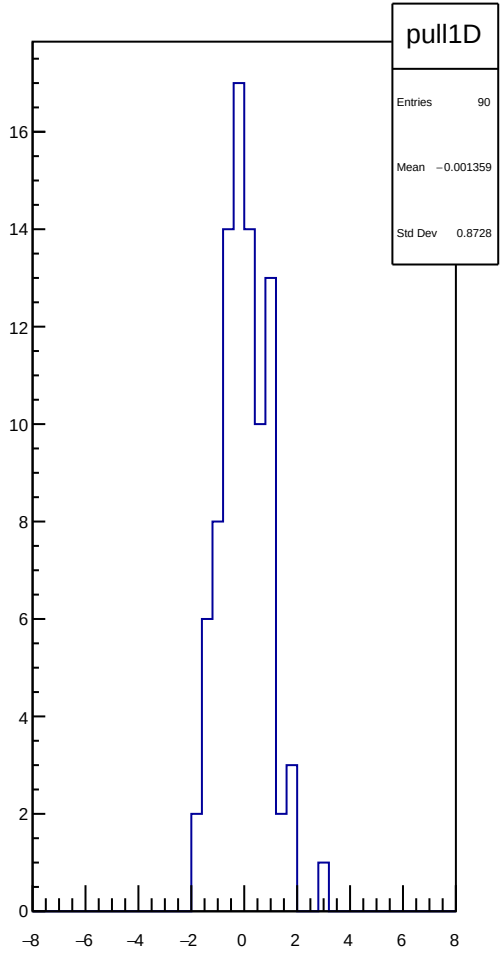

diff_bpm4aX_rms vs run
χ² / ndf 1.717e+04 / 89
p0 1.009e+04 ± 7.595
13000
12000
11000
10000
9000
8000

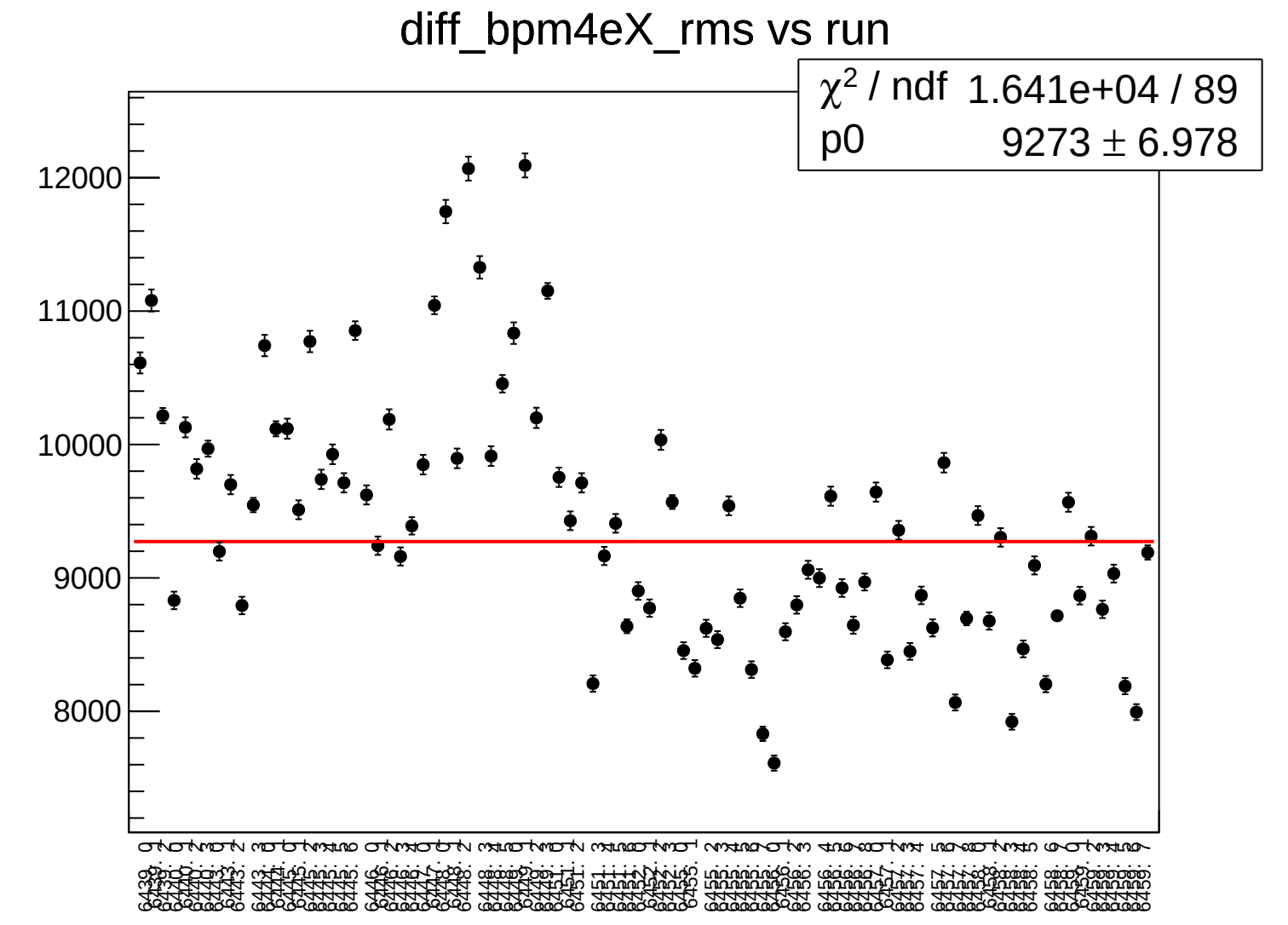

diff_bpm4aY_mean vs run
χ² / ndf 93.81 / 89
p0 3.369 ± 5.425
pull
Entries 90
Mean −686.1
Std Dev 0

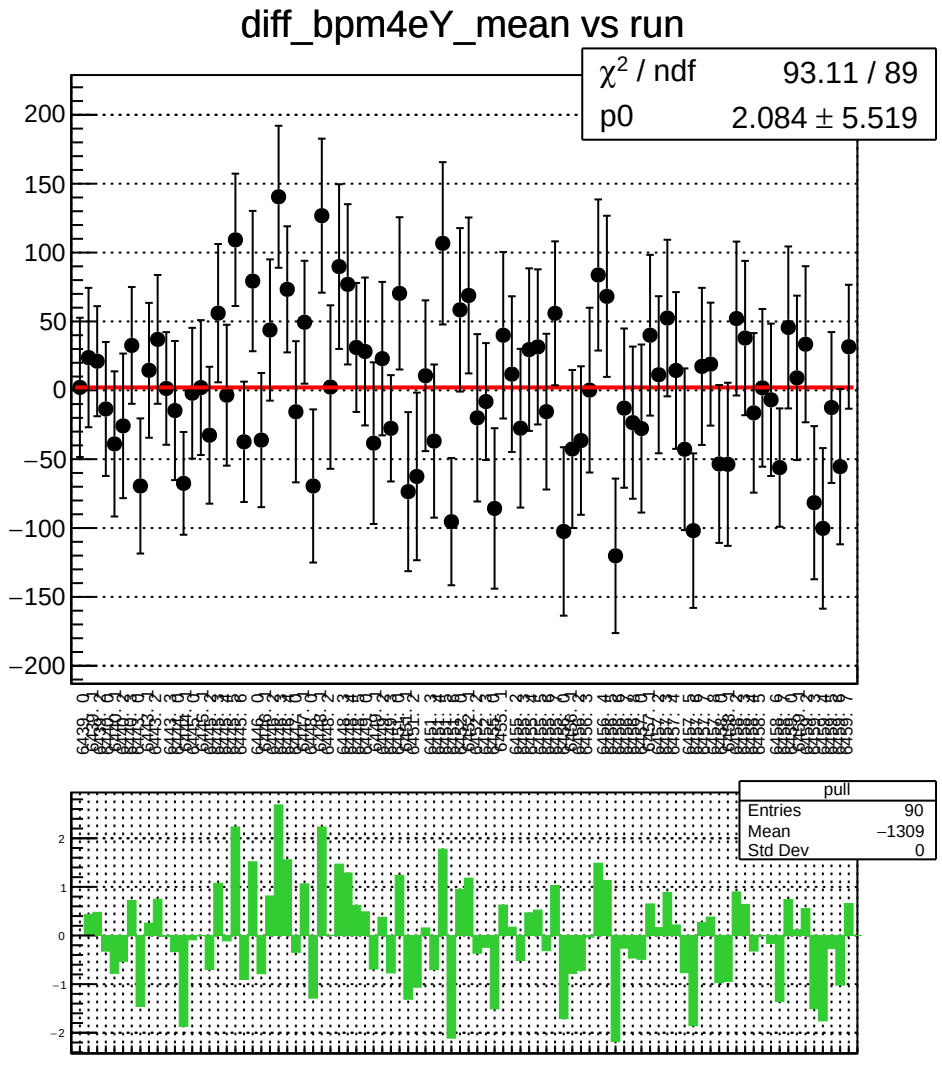

pull1D
Entries 90
Mean 0.004298
Std Dev 1.021

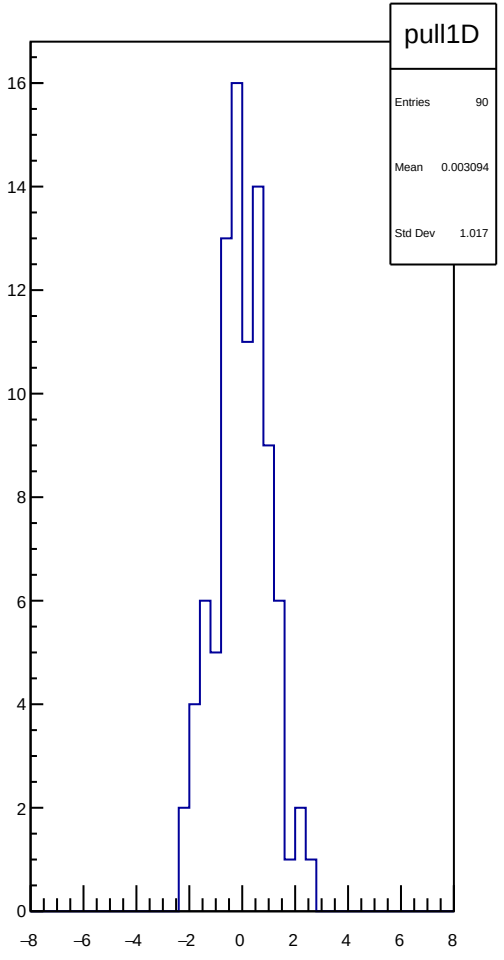

diff_bpm4aY_rms vs run
χ^2 / ndf 5762 / 89
p0 5113 ± 3.836
5800
5600
5400
5200
5000
4800
4600
4400

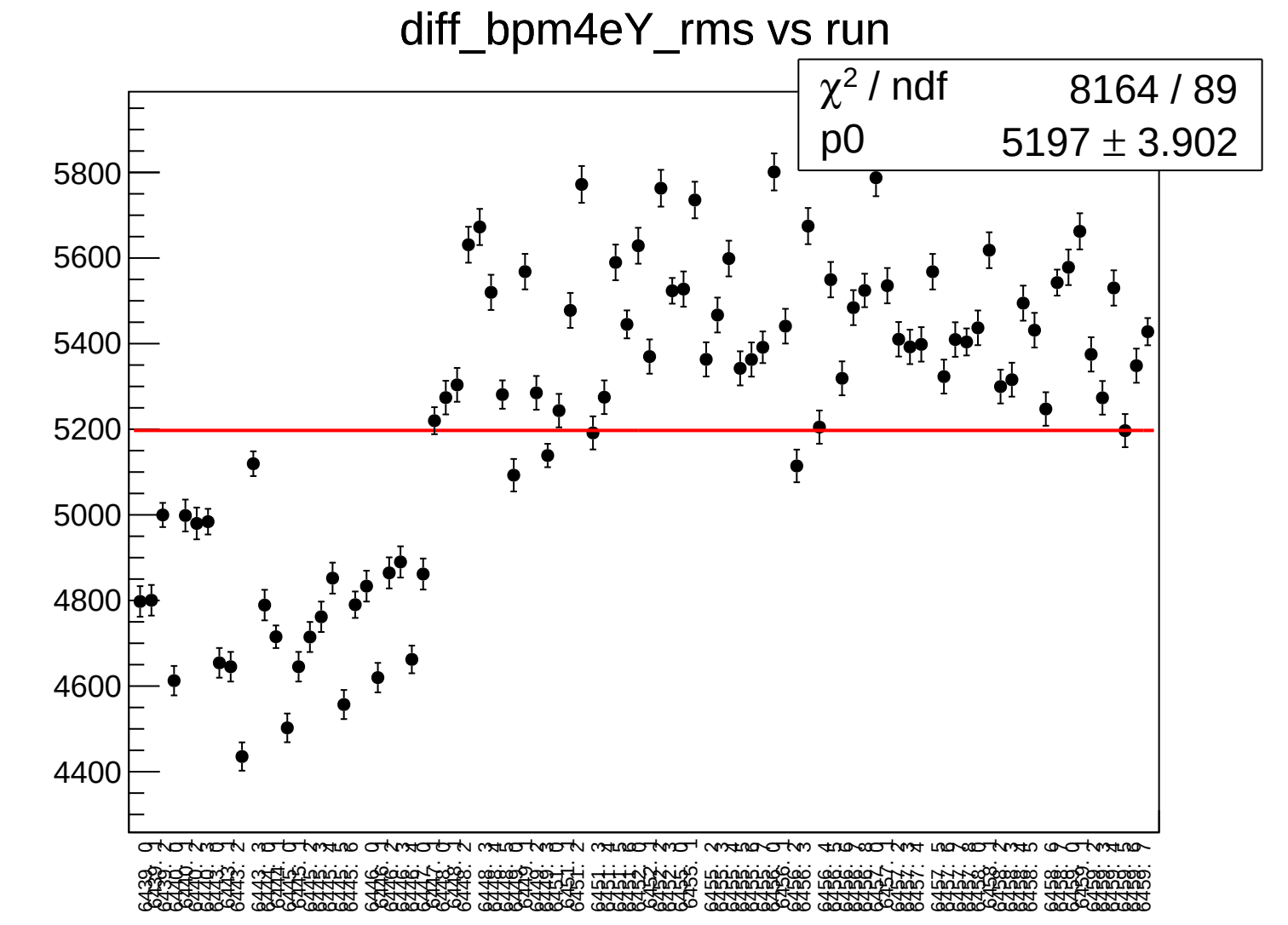

diff_bpm4eX_mean vs run
χ² / ndf 68.57 / 89
p0 −27.64 ± 9.869
300
200
100
0
−100
−200
−300
pull
Entries 90
Mean −1223
Std Dev 0
3
2
1
0
−1
−2

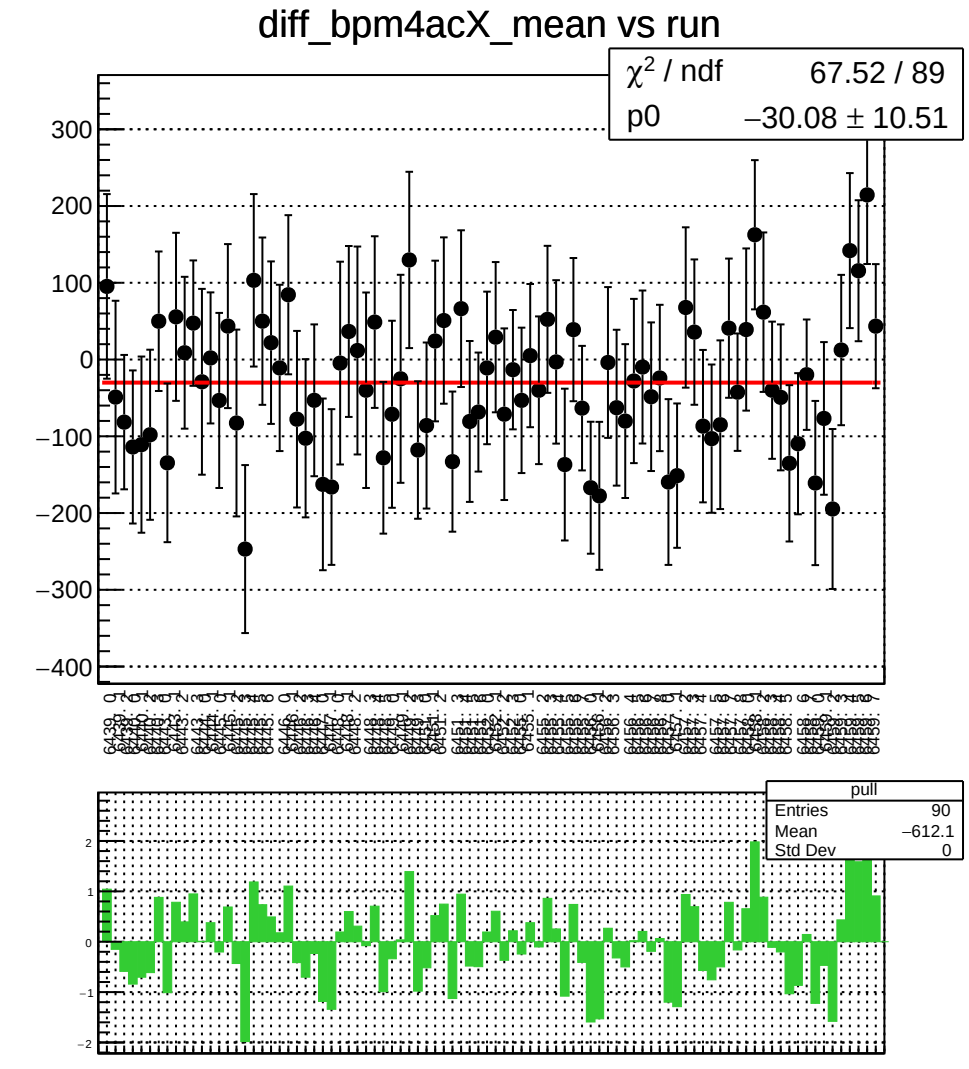

pull1D
Entries 90
Mean −0.001359
Std Dev 0.8728
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

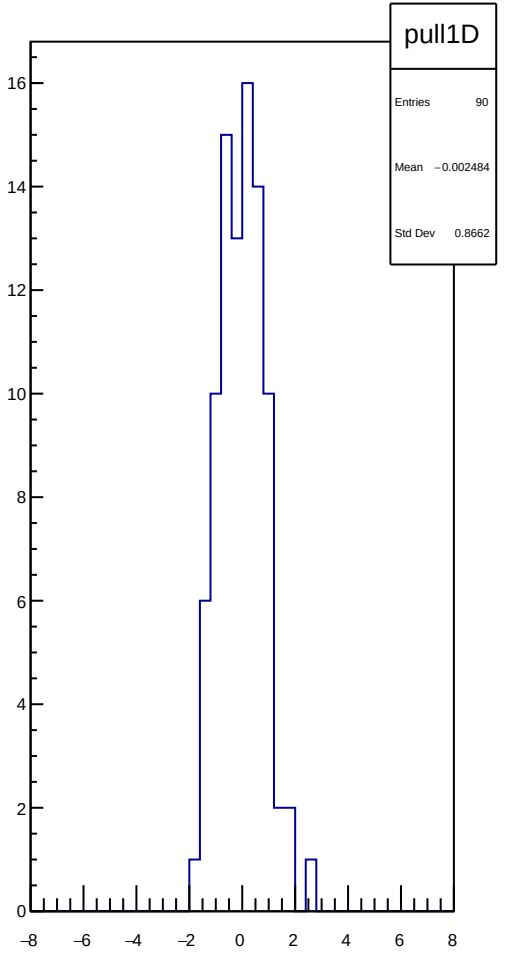

diff_bpm4eX_rms vs run
χ² / ndf 1.641e+04 / 89
p0 9273 ± 6.978
12000
11000
10000
9000
8000

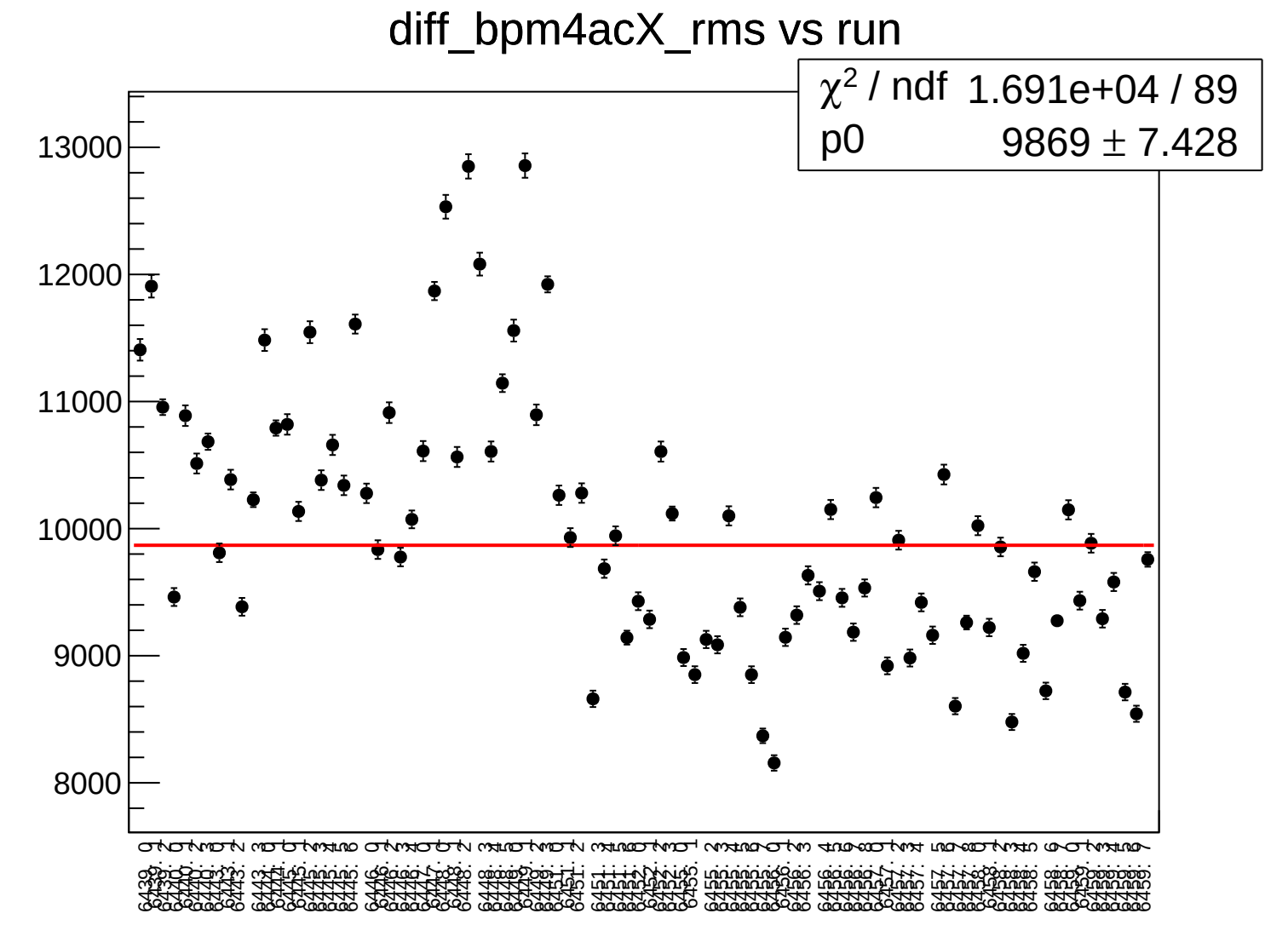

diff_bpm4eY_mean vs run
χ² / ndf 93.11 / 89
p0 2.084 ± 5.519
pull
Entries 90
Mean −1309
Std Dev 0

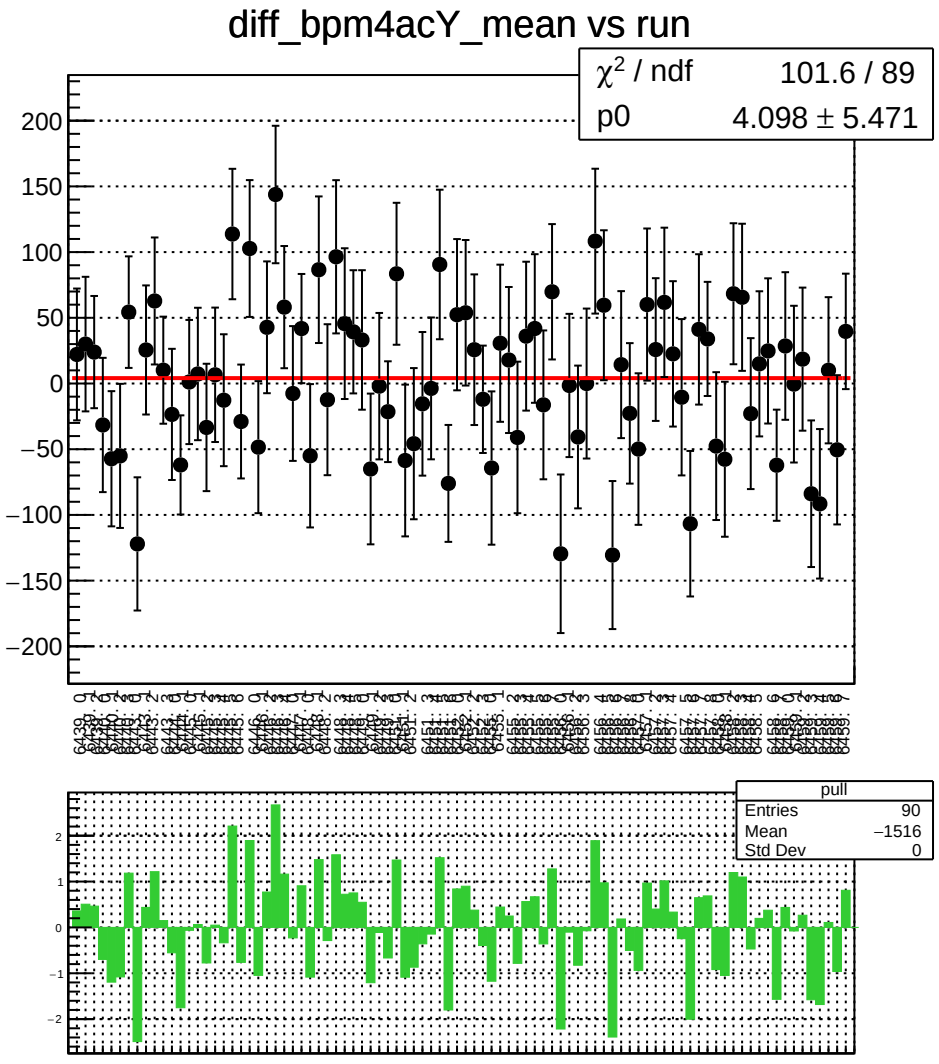

pull1D
Entries 90
Mean 0.003094
Std Dev 1.017

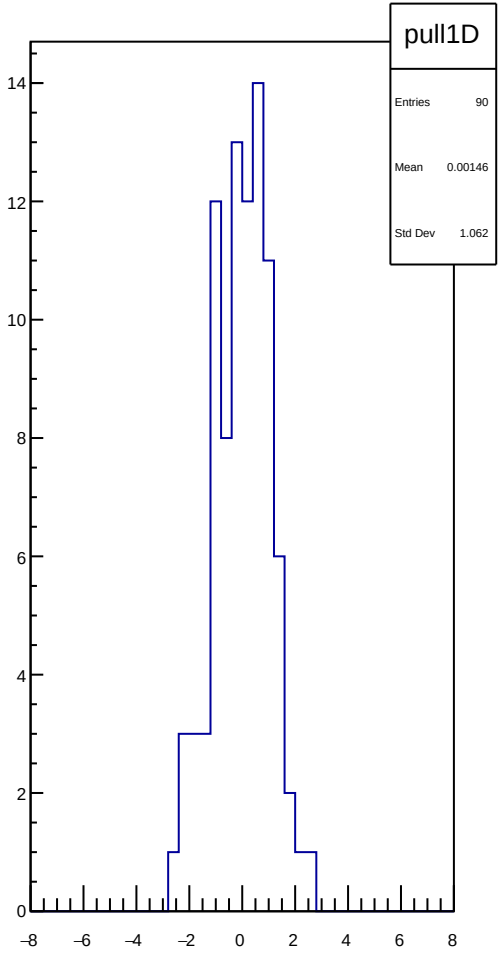

diff_bpm4eY_rms vs run
χ² / ndf 8164 / 89
p0 5197 ± 3.902
5800
5600
5400
5200
5000
4800
4600
4400

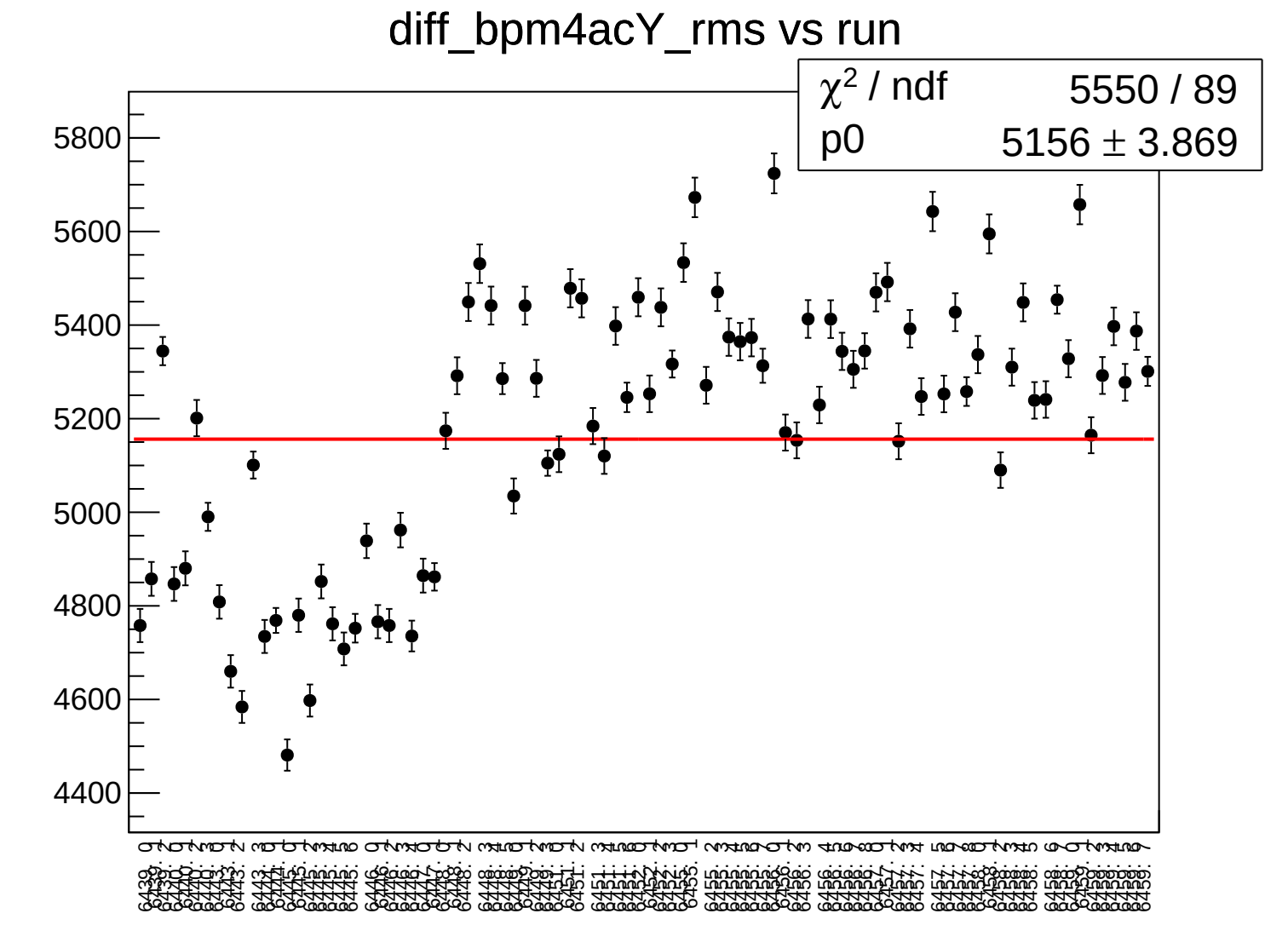

diff_bpm4acX_mean vs run
χ² / ndf 67.52 / 89
p0 −30.08 ± 10.51
pull
Entries 90
Mean −612.1
Std Dev 0

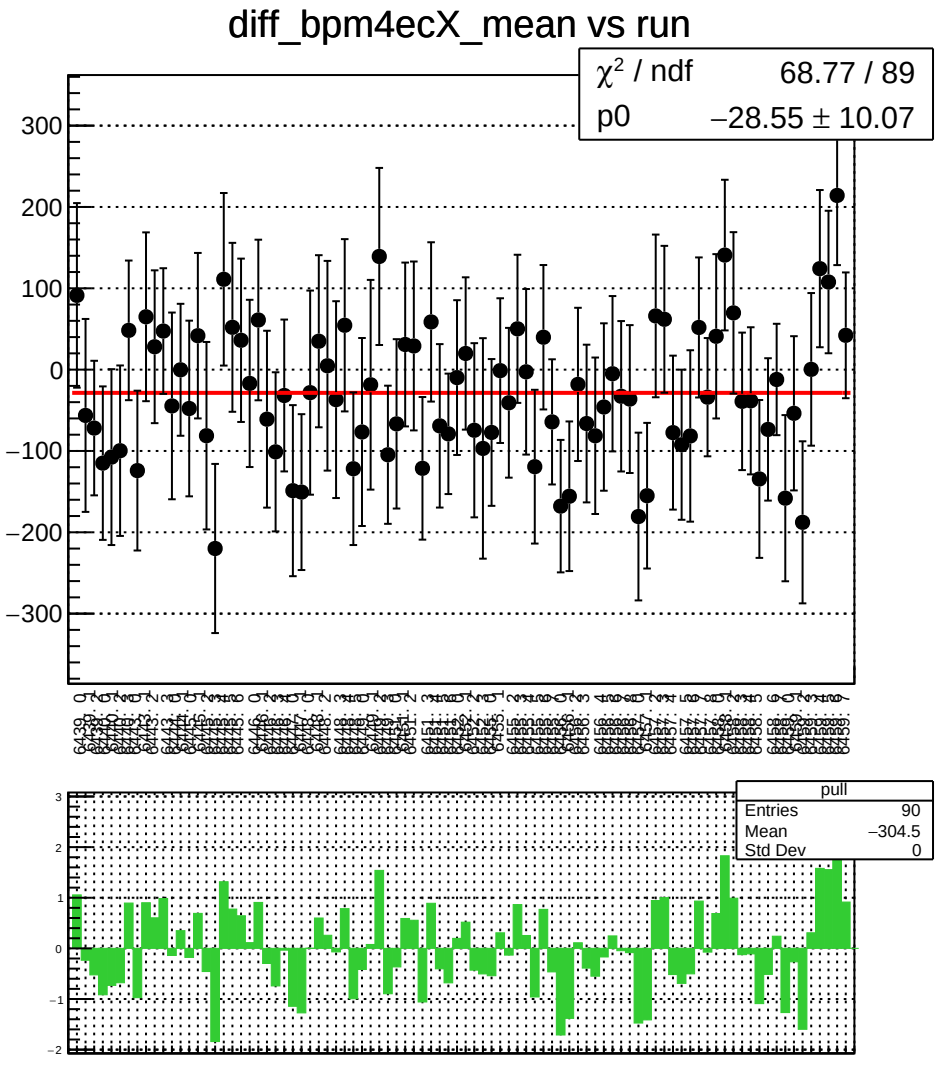

pull1D
Entries 90
Mean −0.002484
Std Dev 0.8662

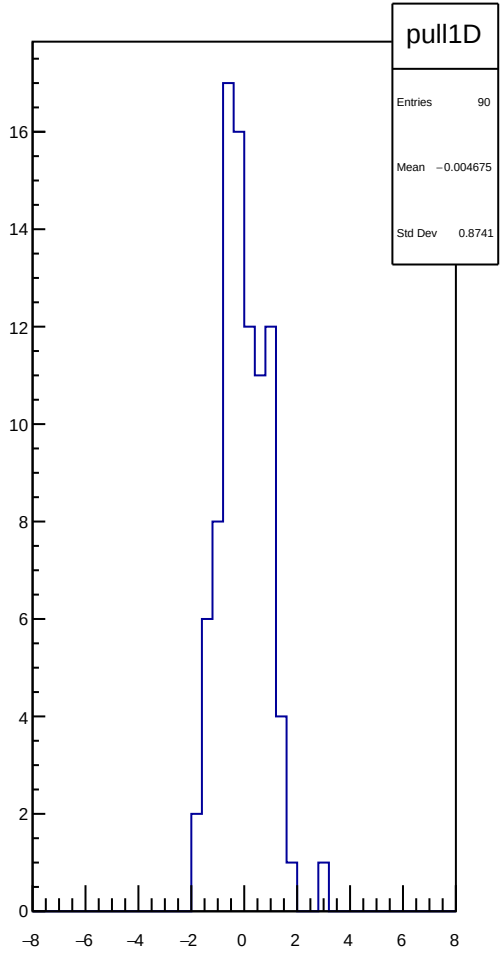

diff_bpm4acX_rms vs run
χ² / ndf 1.691e+04 / 89
p0 9869 ± 7.428
13000
12000
11000
10000
9000
8000

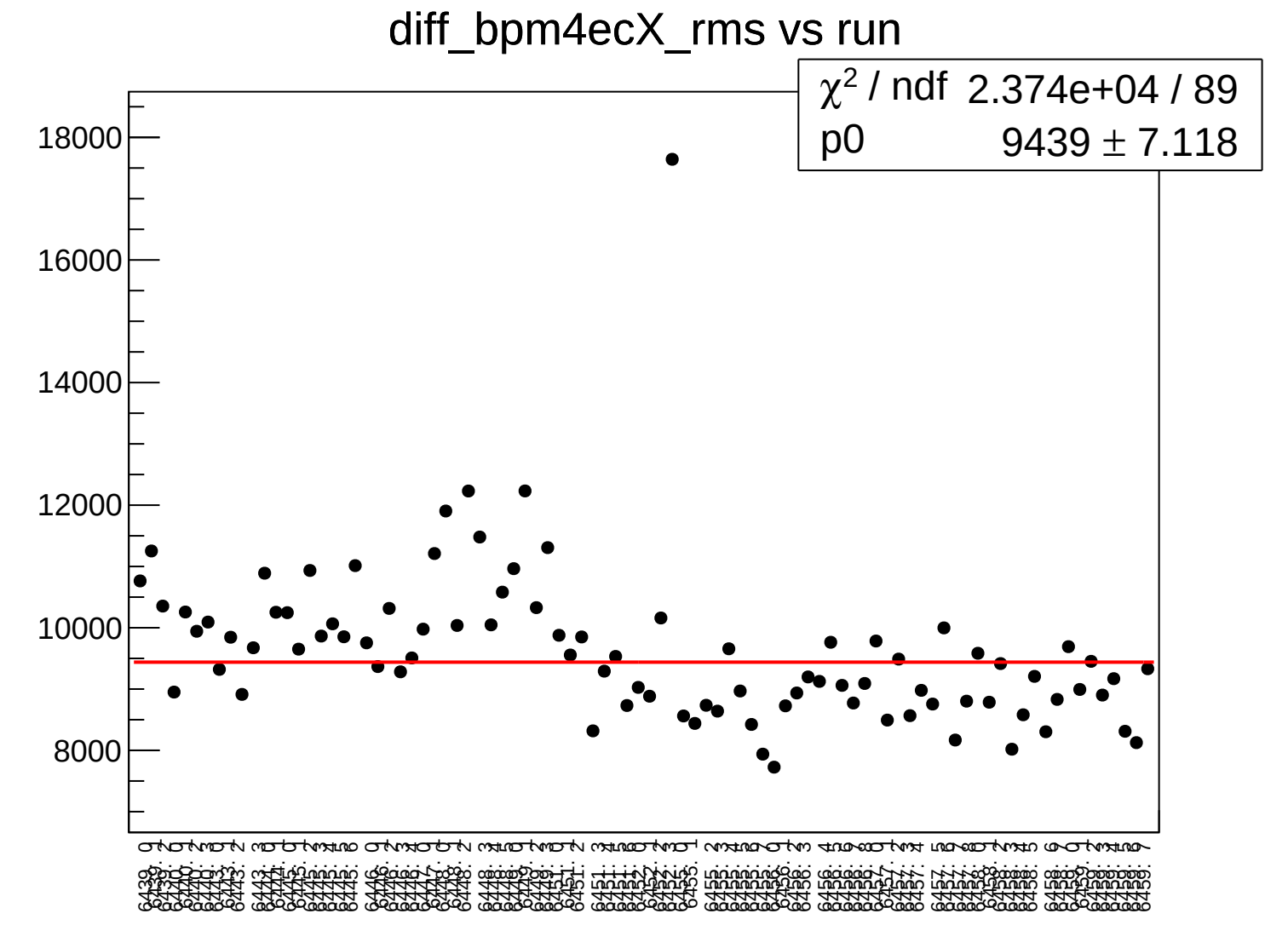

diff_bpm4acY_mean vs run
χ^2 / ndf 101.6 / 89
p0 4.098 ± 5.471
pull
Entries 90
Mean −1516
Std Dev 0

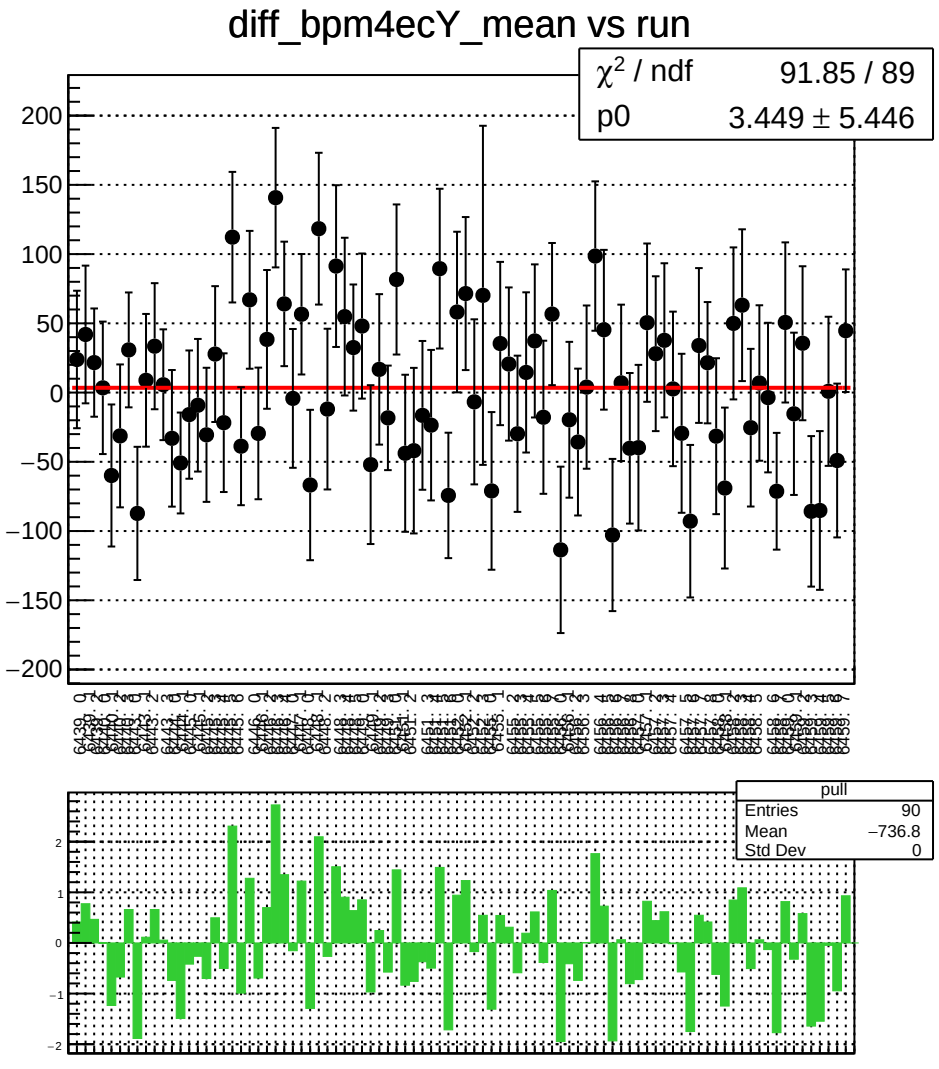

pull1D
Entries 90
Mean 0.00146
Std Dev 1.062

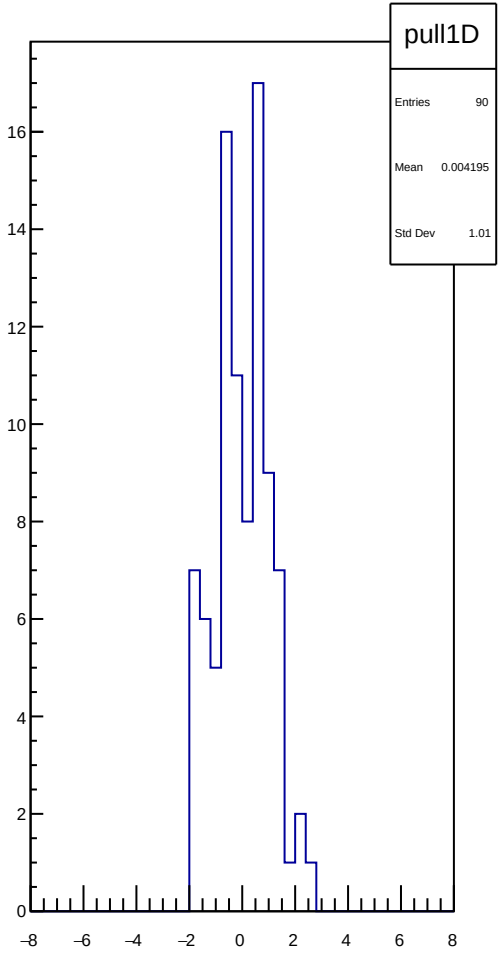

diff_bpm4acY_rms vs run
χ^2 / ndf 5550 / 89
p0 5156 ± 3.869
5800
5600
5400
5200
5000
4800
4600
4400

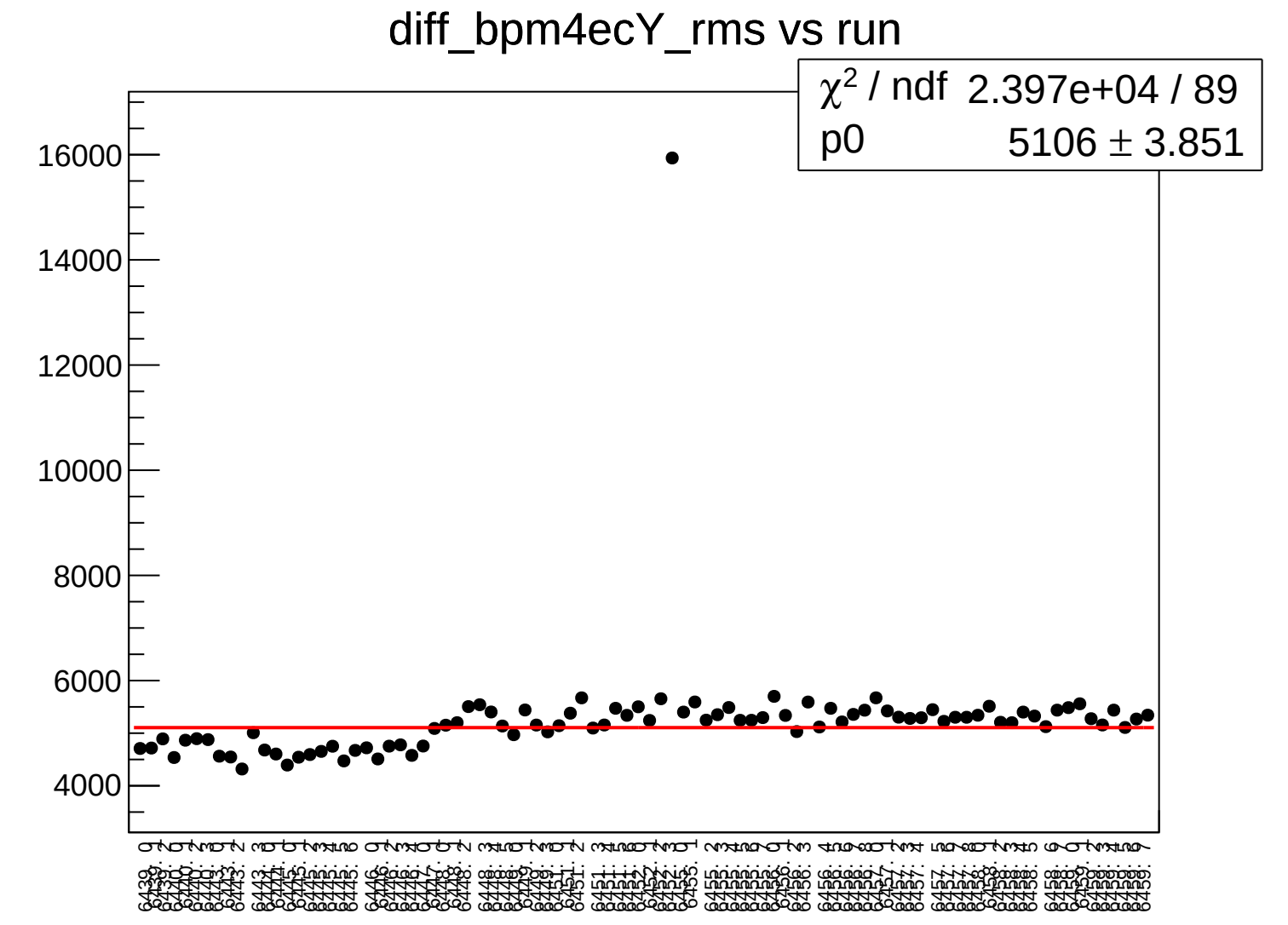

diff_bpm4ecX_mean vs run
χ² / ndf 68.77 / 89
p0 −28.55 ± 10.07
300
200
100
0
−100
−200
−300
pull
Entries 90
Mean −304.5
Std Dev 0
3
2
1
0
−1
−2

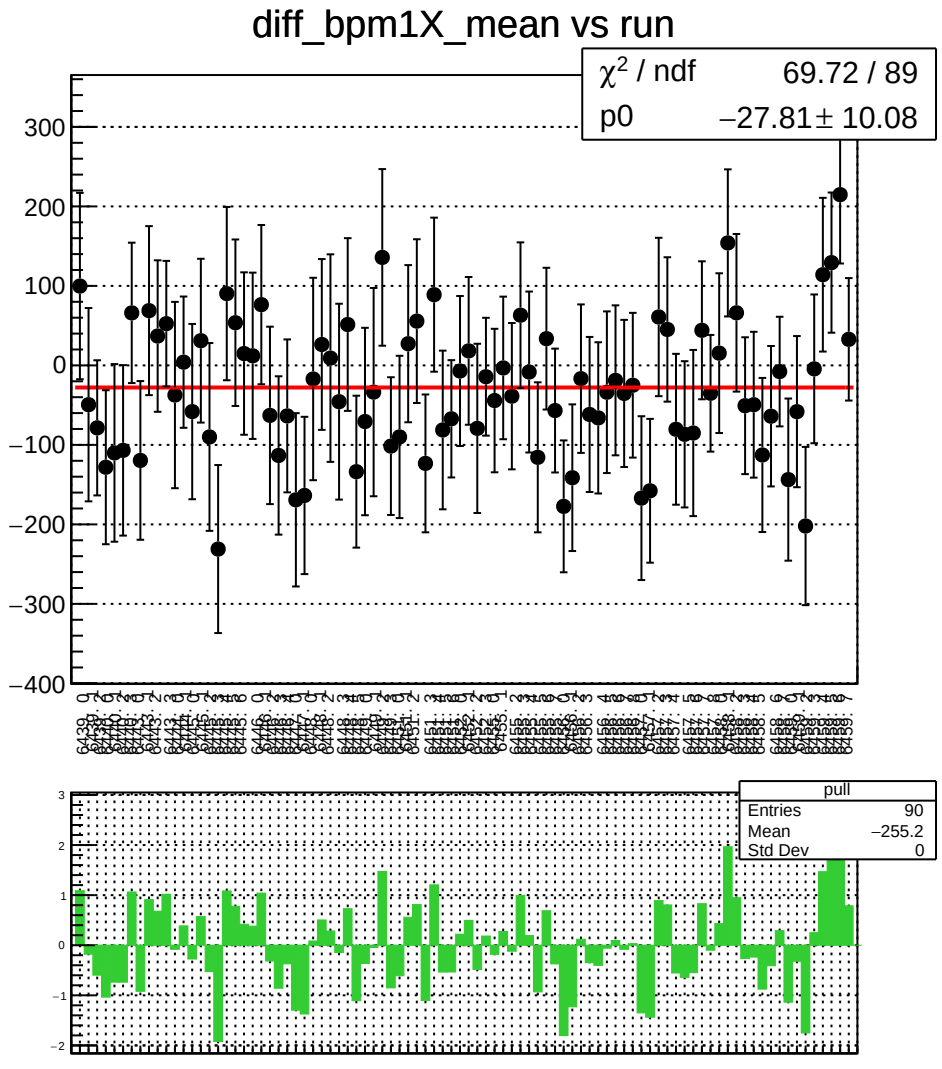

pull1D
Entries 90
Mean −0.004675
Std Dev 0.8741
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

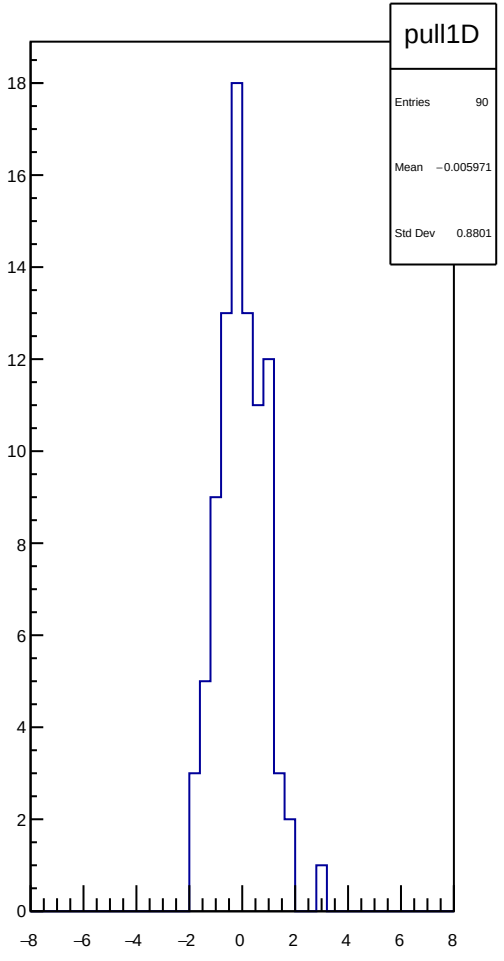

diff_bpm4ecX_rms vs run
χ² / ndf 2.374e+04 / 89
p0 9439 ± 7.118
18000
16000
14000
12000
10000
8000

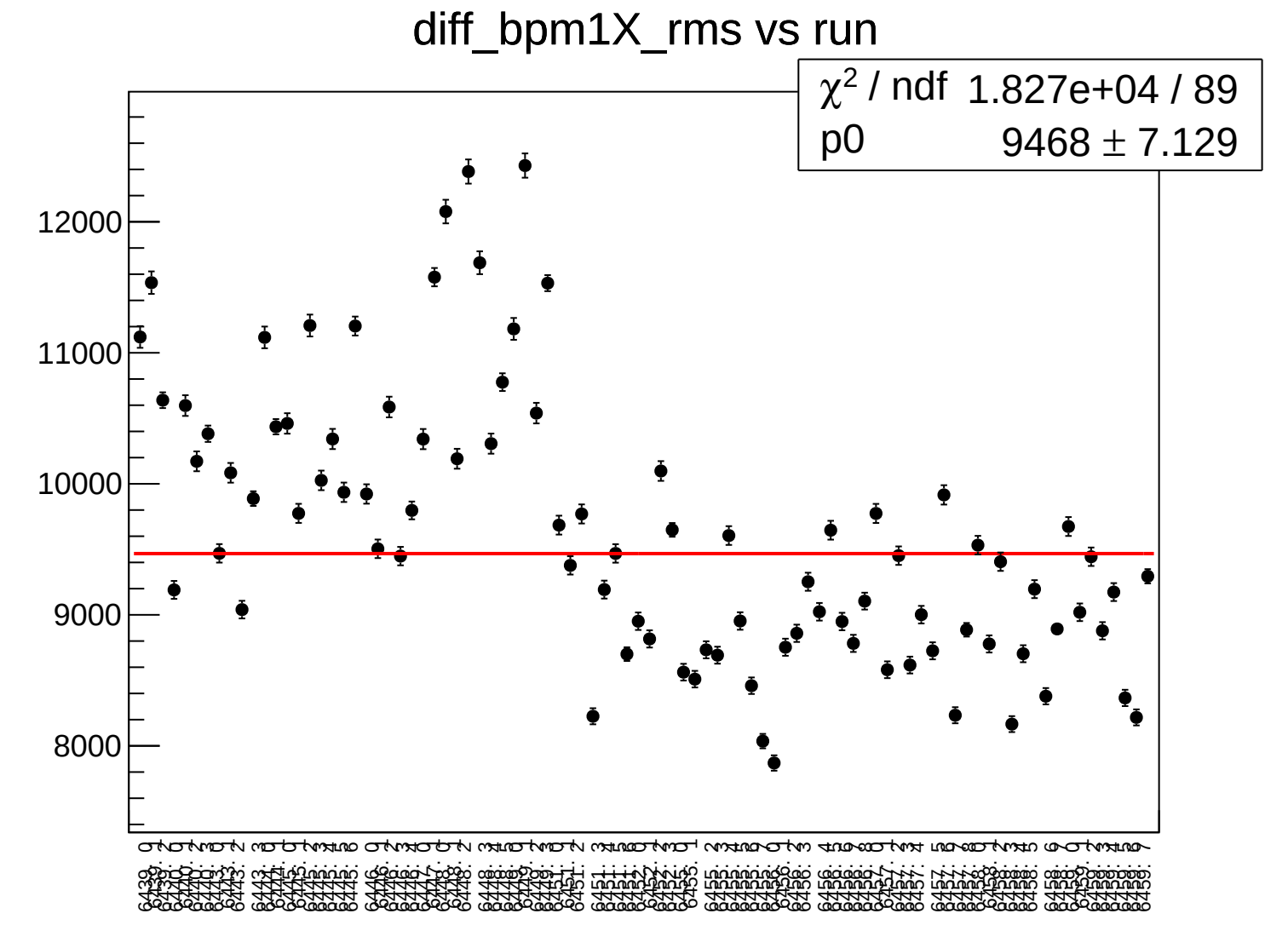

diff_bpm4ecY_mean vs run
χ^2 / ndf 91.85 / 89
p0 3.449 ± 5.446
pull
Entries 90
Mean −736.8
Std Dev 0

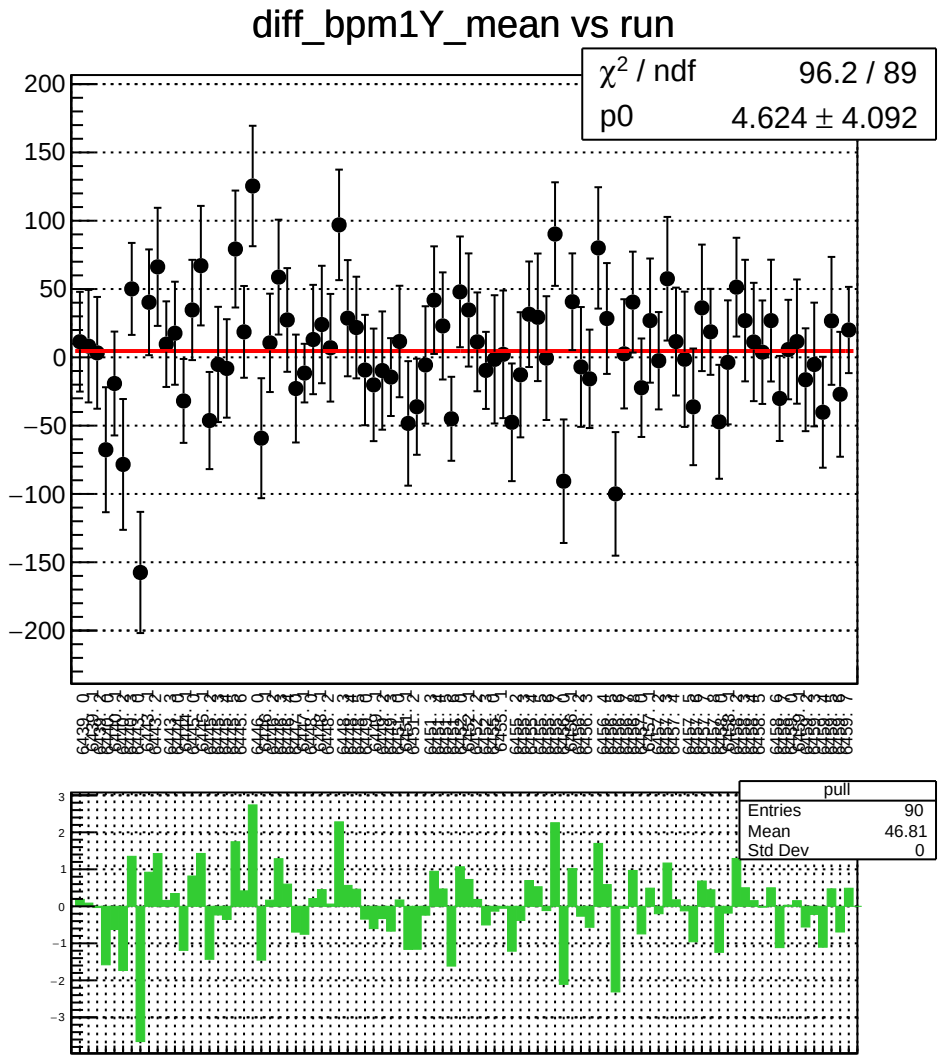

pull1D
Entries 90
Mean 0.004195
Std Dev 1.01

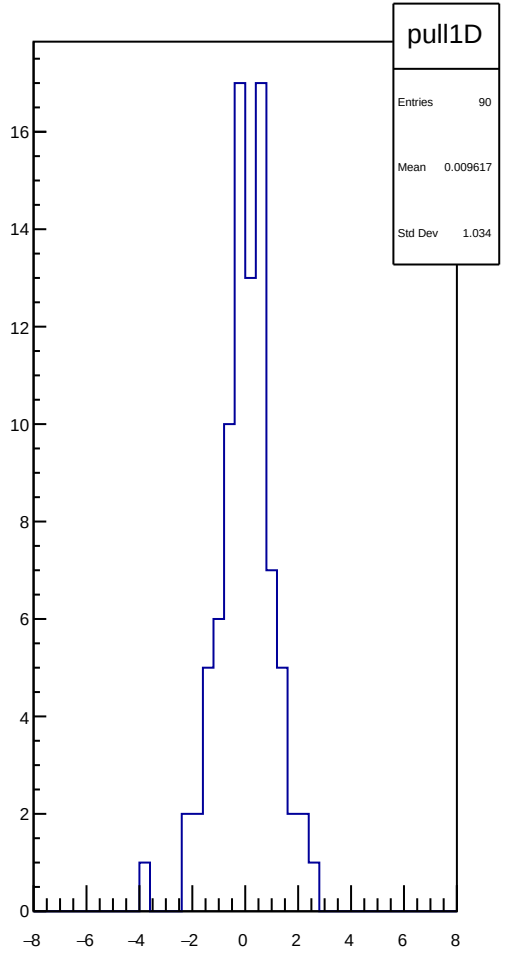

diff_bpm4ecY_rms vs run
χ² / ndf 2.397e+04 / 89
p0 5106 ± 3.851
16000
14000
12000
10000
8000
6000
4000

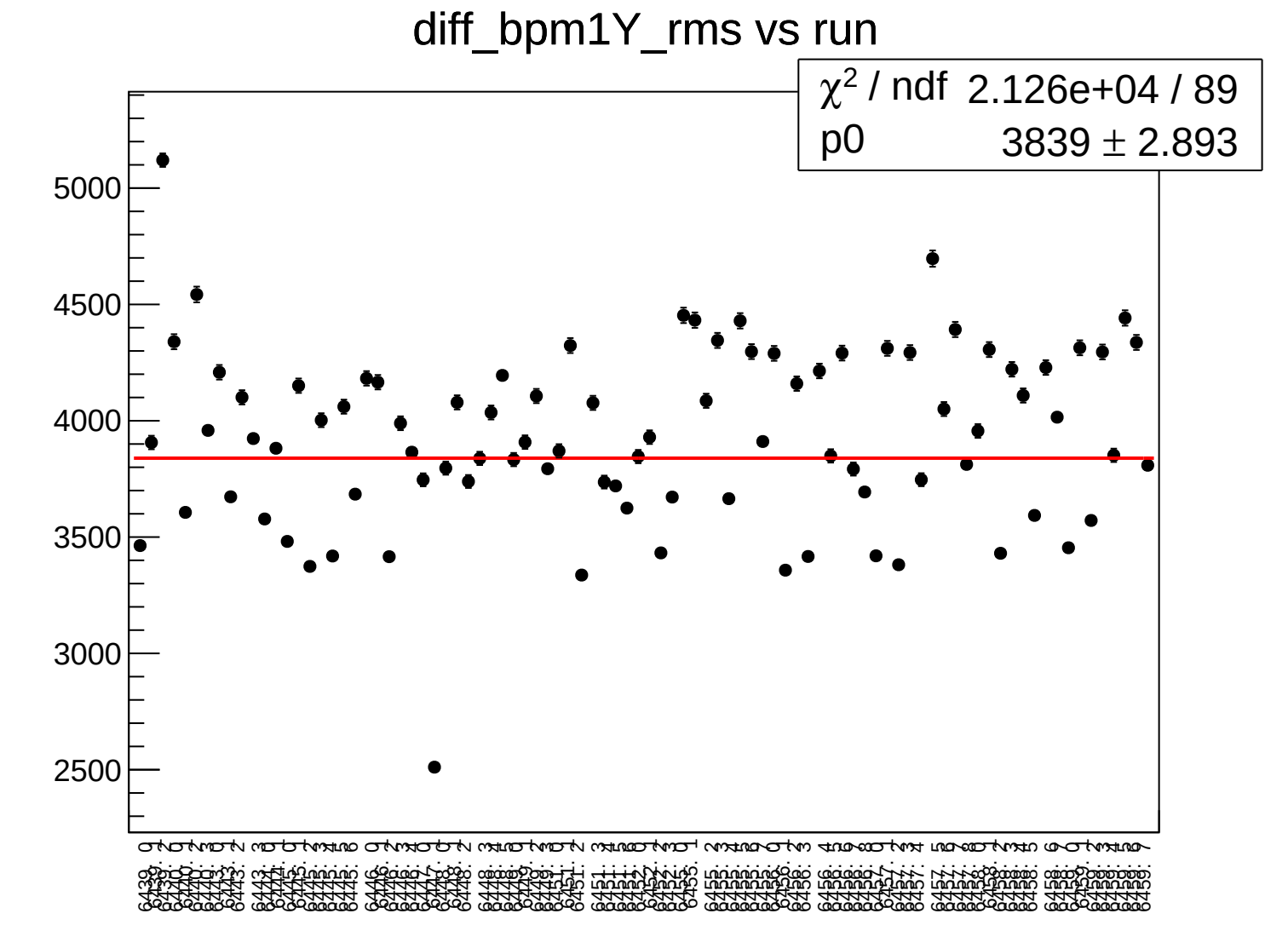

diff_bpm1X_mean vs run
χ² / ndf 69.72 / 89
p0 −27.81± 10.08
pull
Entries 90
Mean −255.2
Std Dev 0

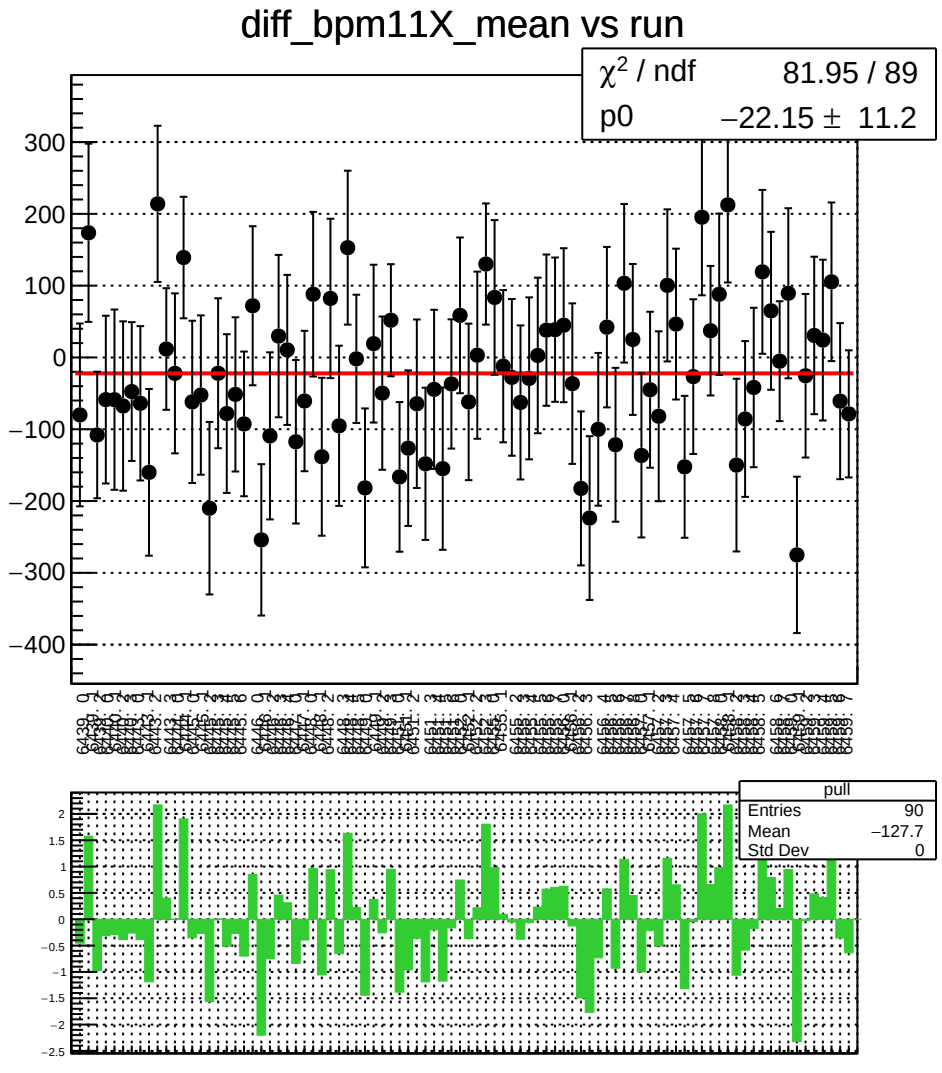

pull1D
Entries 90
Mean −0.005971
Std Dev 0.8801

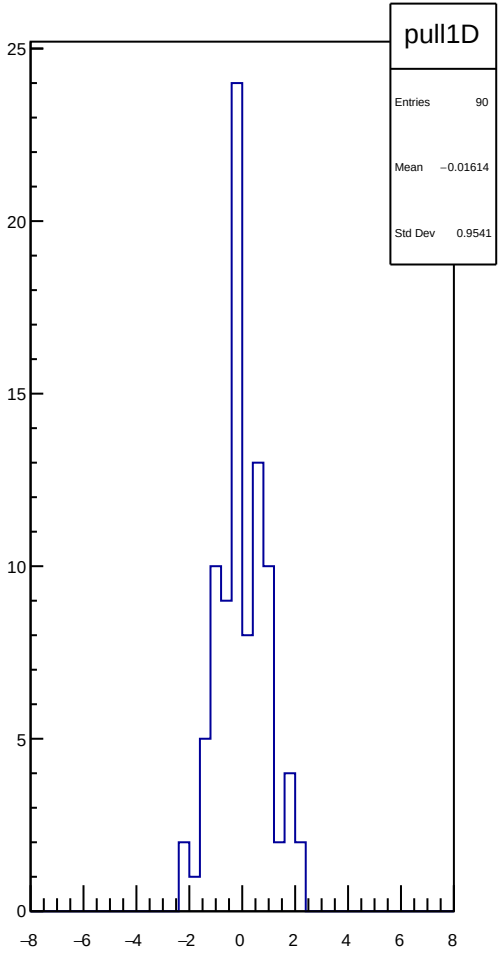

diff_bpm1X_rms vs run
χ² / ndf 1.827e+04 / 89
p0 9468 ± 7.129
12000
11000
10000
9000
8000

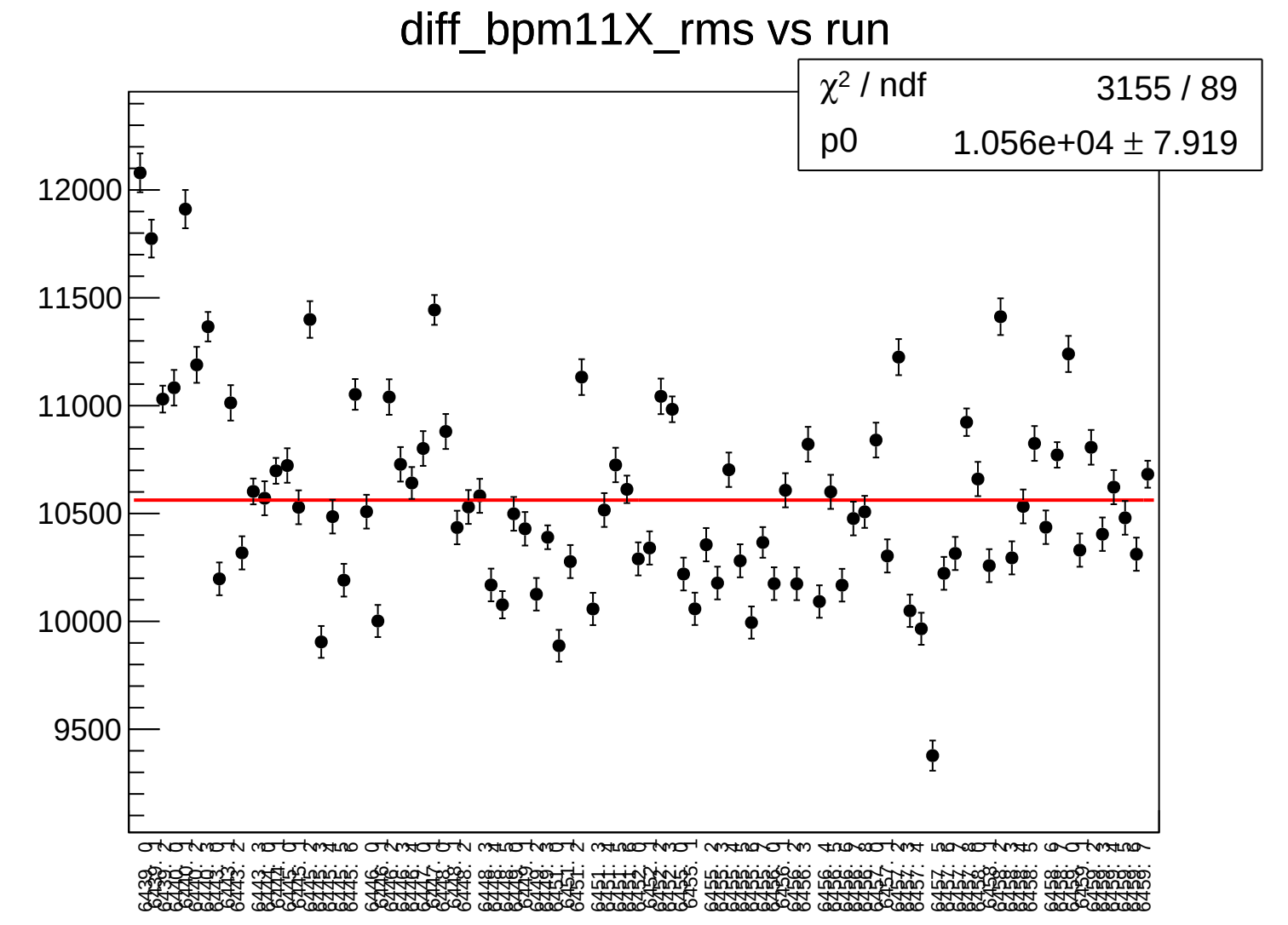

diff_bpm1Y_mean vs run
χ^2 / ndf 96.2 / 89
p0 4.624 ± 4.092
pull
Entries 90
Mean 46.81
Std Dev 0

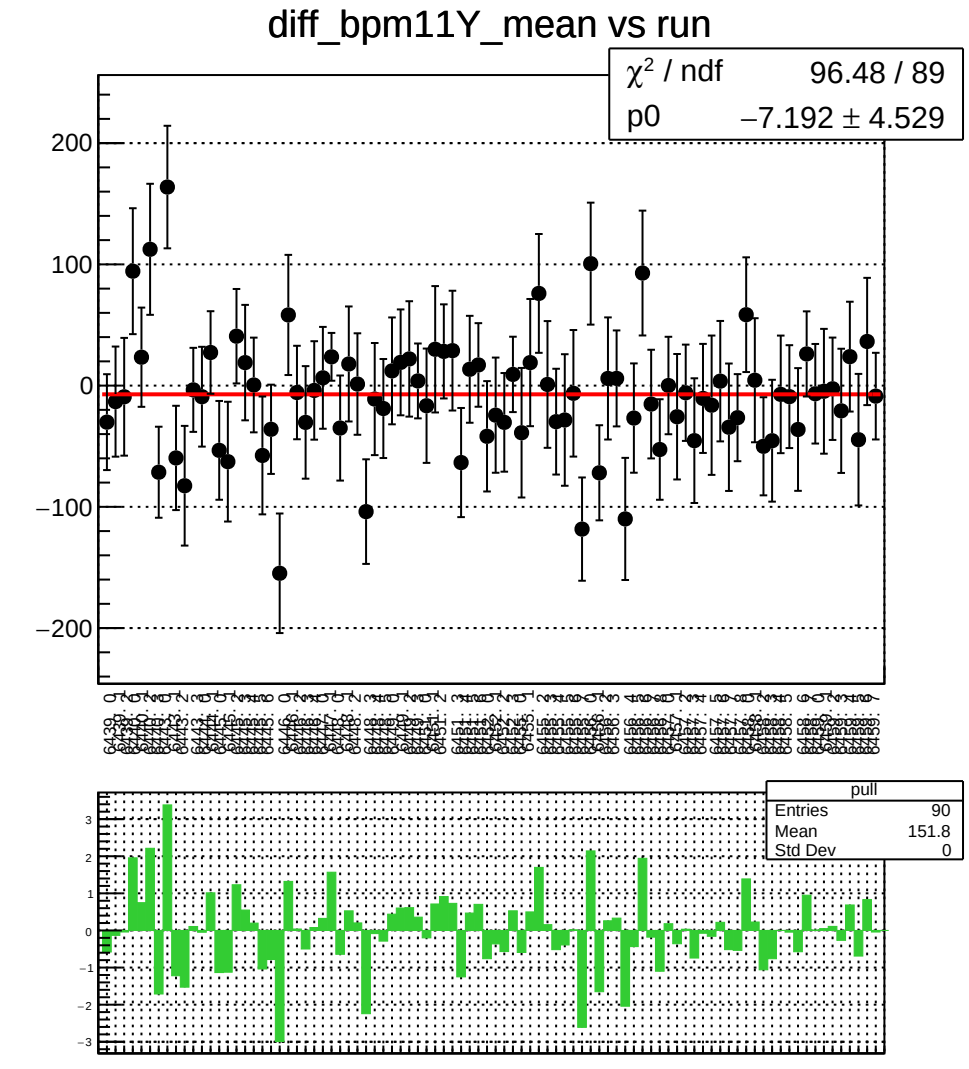

pull1D
Entries 90
Mean 0.009617
Std Dev 1.034

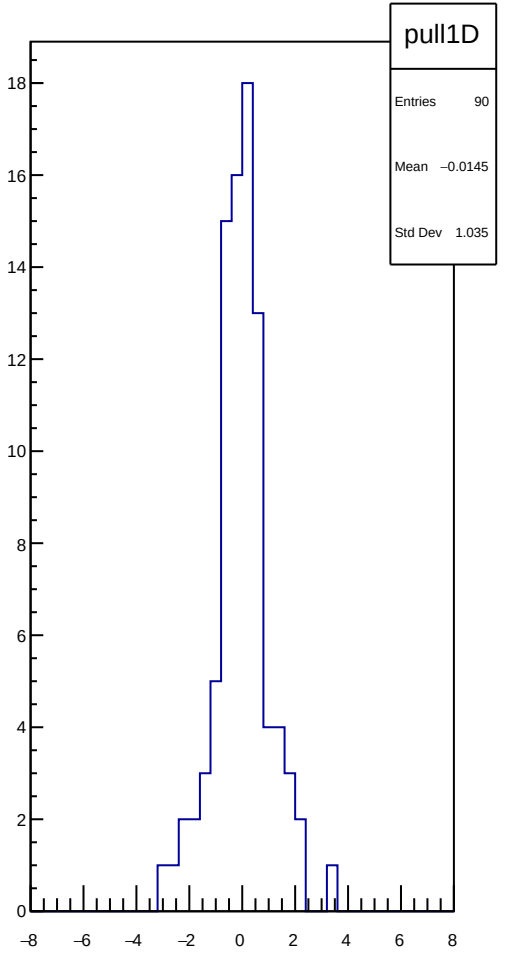

diff_bpm1Y_rms vs run
χ^2 / ndf 2.126e+04 / 89
p0 3839 ± 2.893
5000
4500
4000
3500
3000
2500

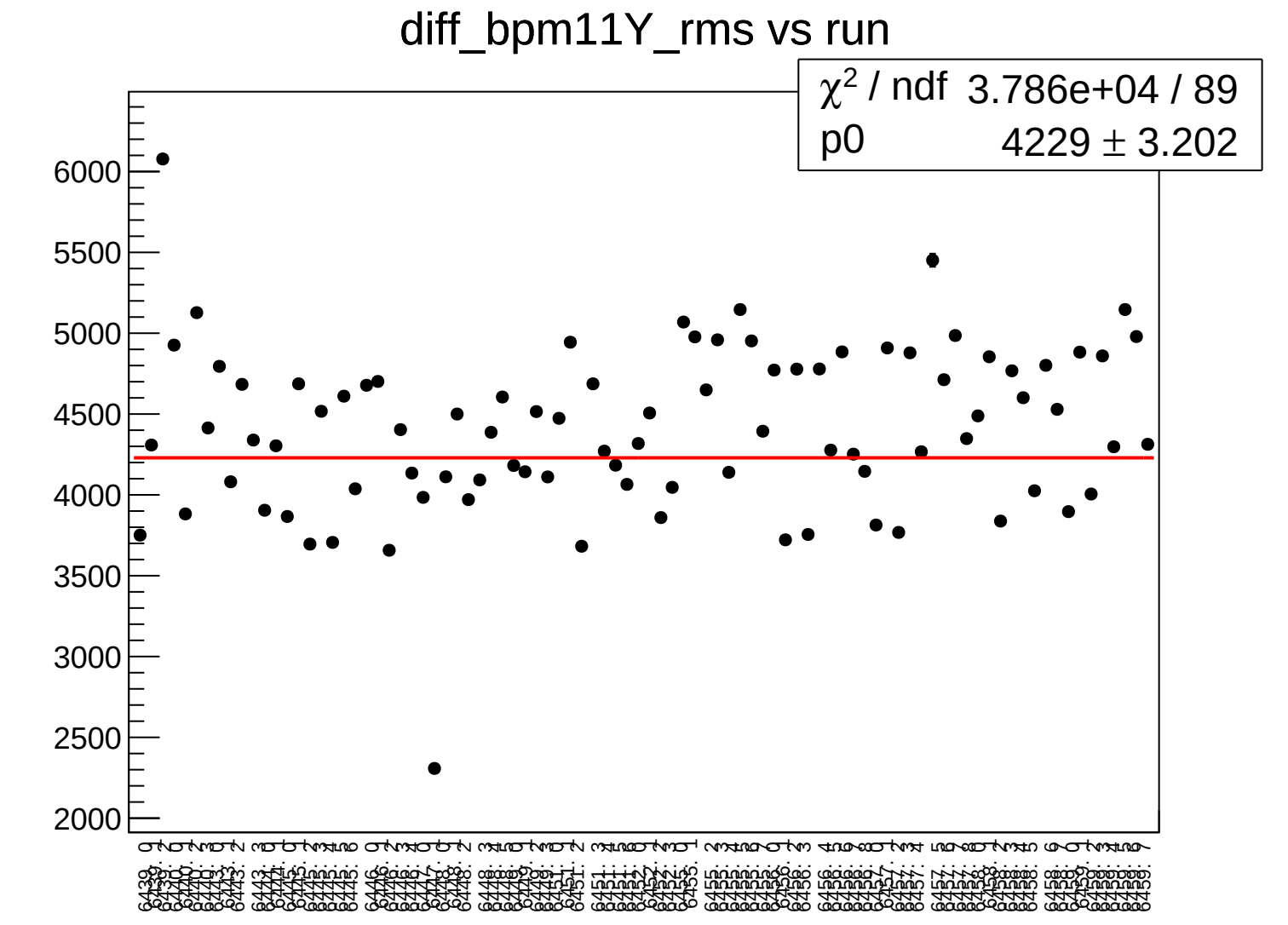

diff_bpm11X_mean vs run
χ² / ndf 81.95 / 89
p0 −22.15 ± 11.2
pull
Entries 90
Mean −127.7
Std Dev 0

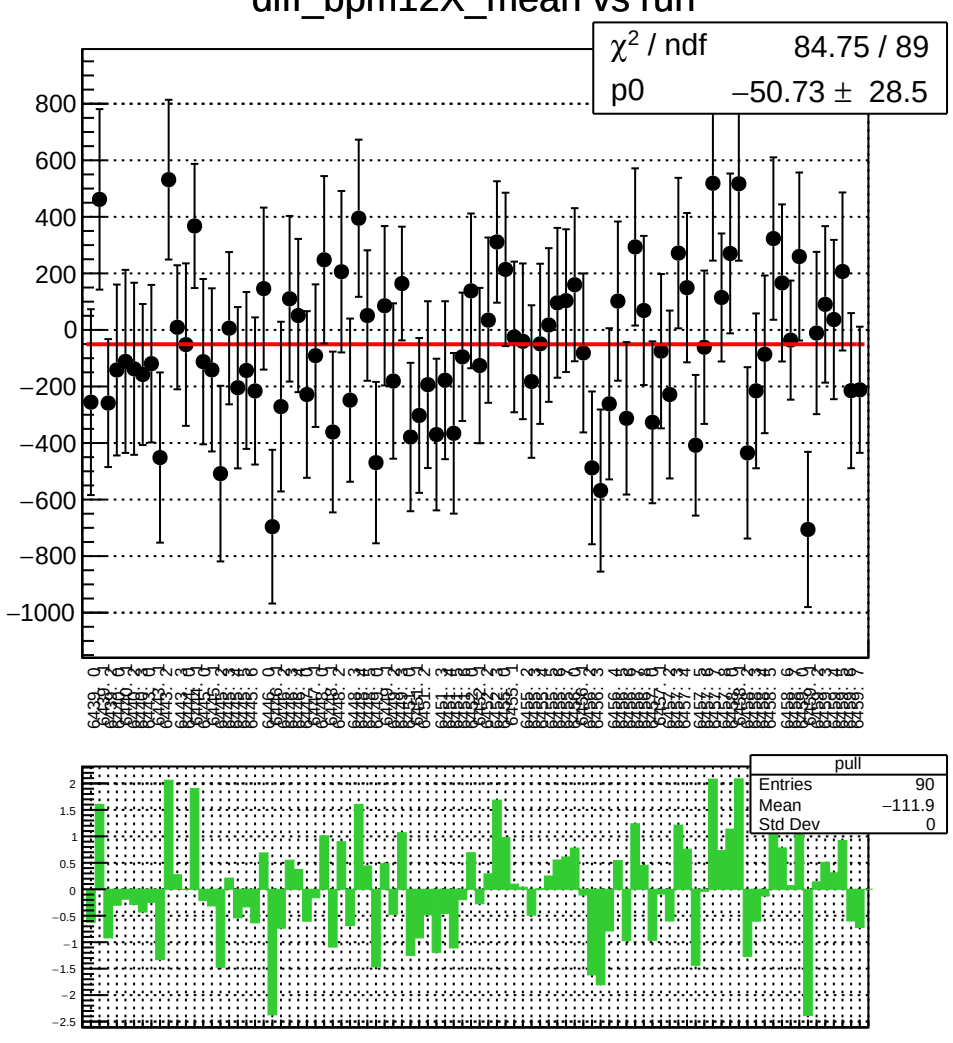

pull1D
Entries 90
Mean −0.01614
Std Dev 0.9541

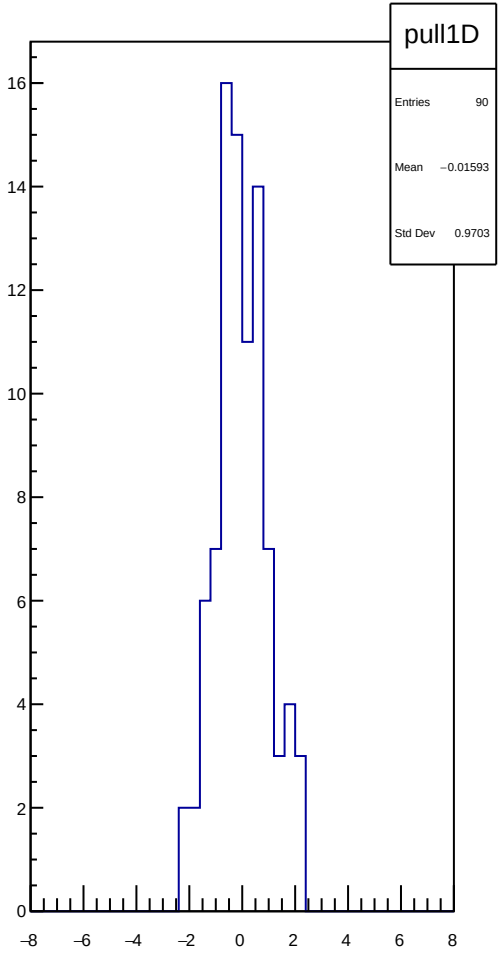

diff_bpm11X_rms vs run
χ² / ndf 3155 / 89
p0 1.056e+04 ± 7.919
12000
11500
11000
10500
10000
9500


diff_bpm11Y_mean vs run
χ² / ndf 96.48 / 89
p0 −7.192 ± 4.529
200
100
0
−100
−200
pull
Entries 90
Mean 151.8
Std Dev 0
3
2
1
0
−1
−2
−3

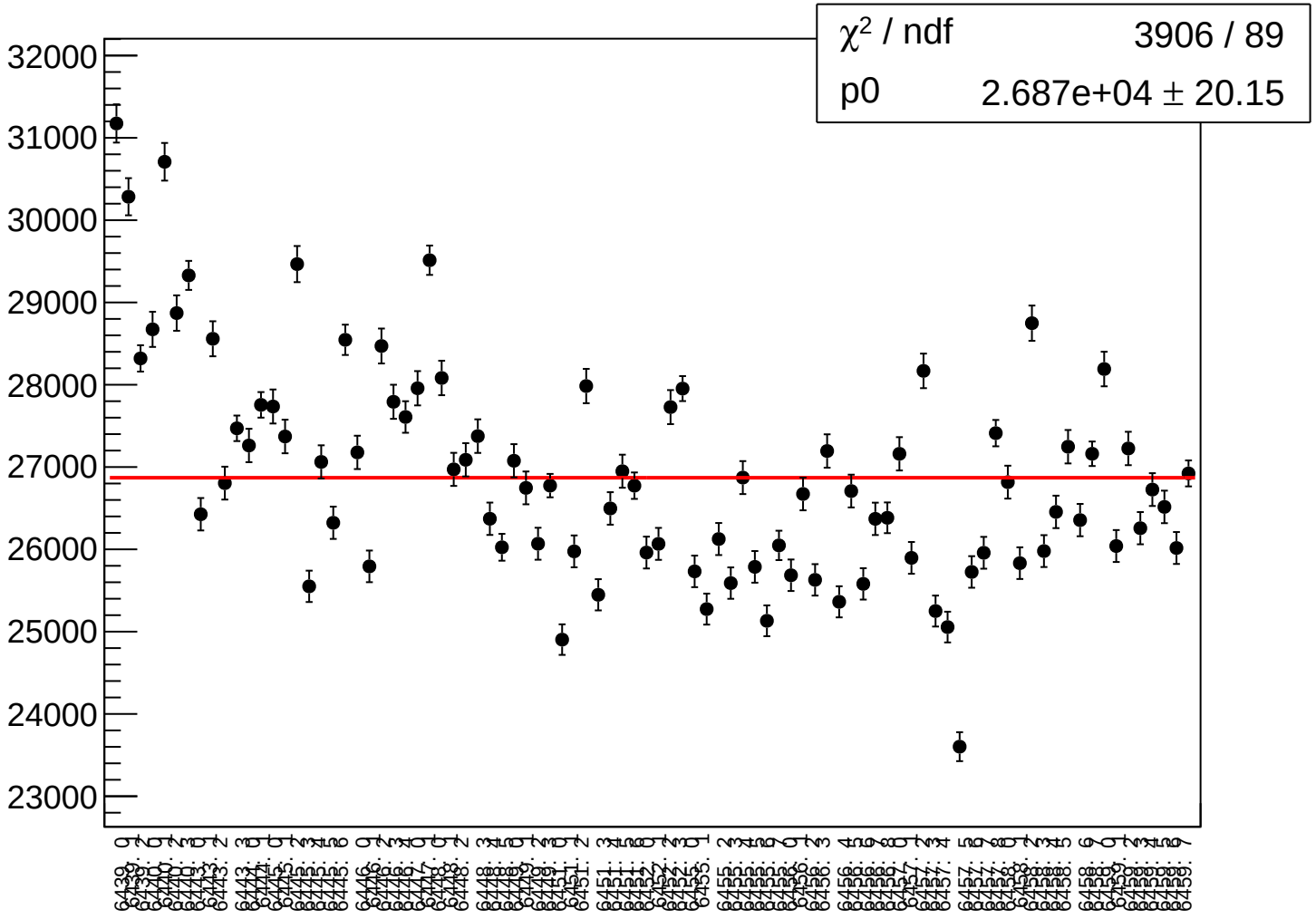

pull1D
Entries 90
Mean −0.0145
Std Dev 1.035
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

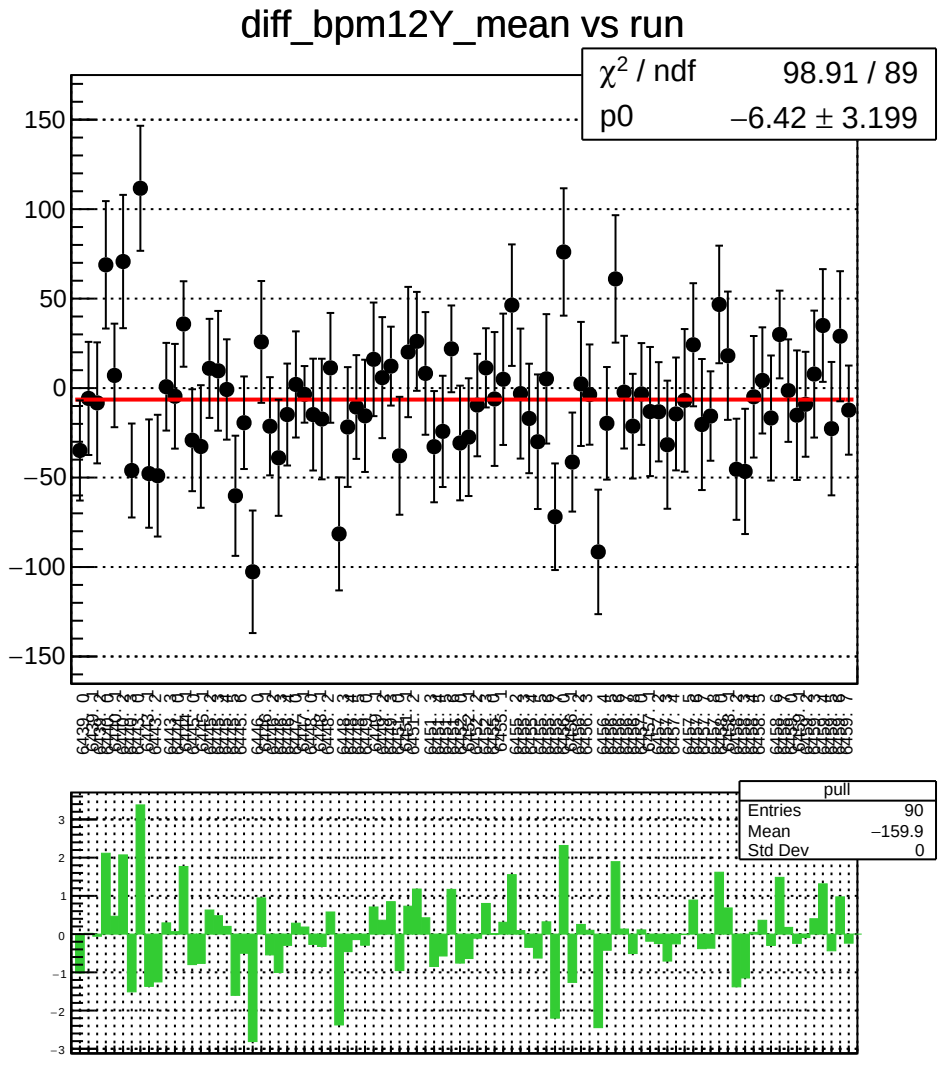

diff_bpm11Y_rms vs run
χ² / ndf 3.786e+04 / 89
p0 4229 ± 3.202
6000
5500
5000
4500
4000
3500
3000
2500
2000

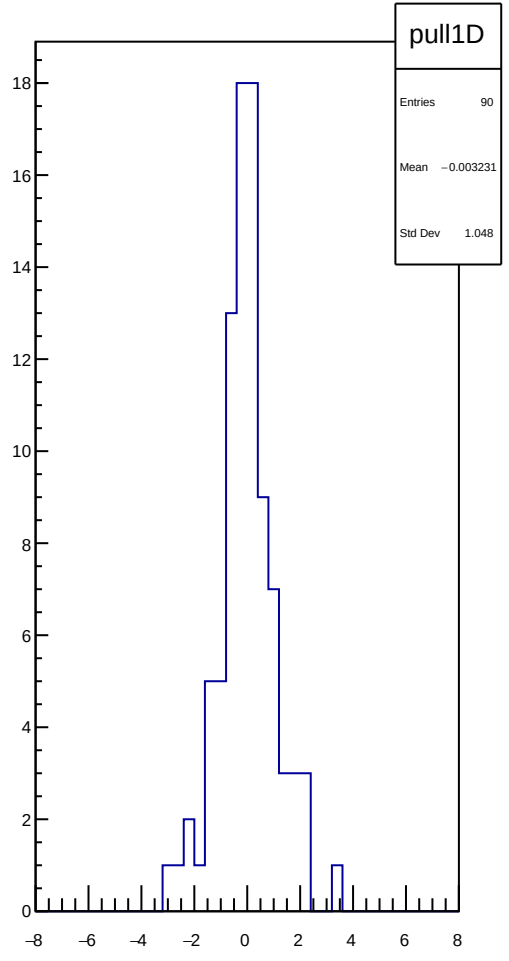

diff_bpm12X_mean vs run
χ² / ndf 84.75 / 89
p0 −50.73 ± 28.5
pull
Entries 90
Mean −111.9
Std Dev 0

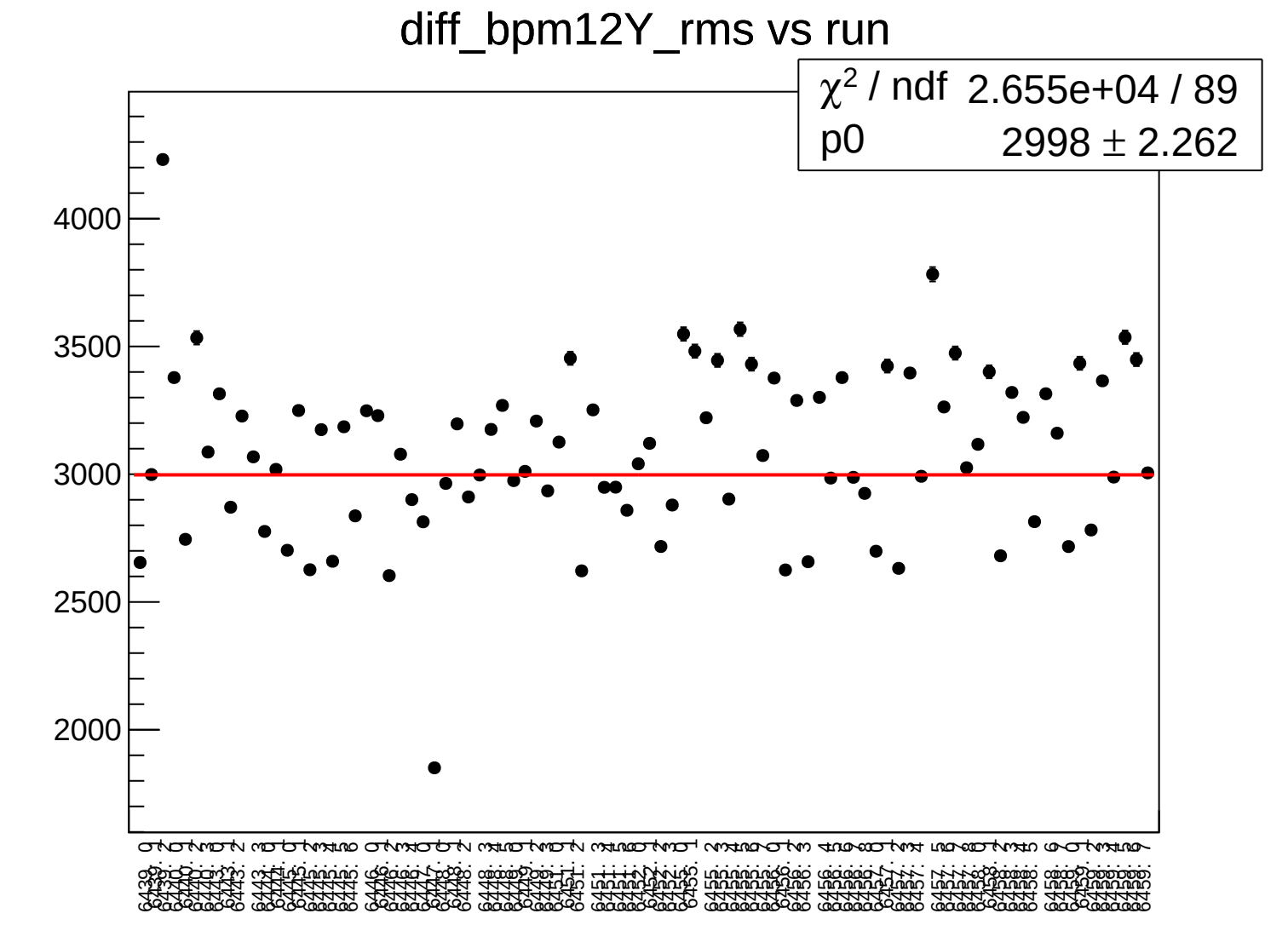

pull1D
Entries 90
Mean −0.01593
Std Dev 0.9703

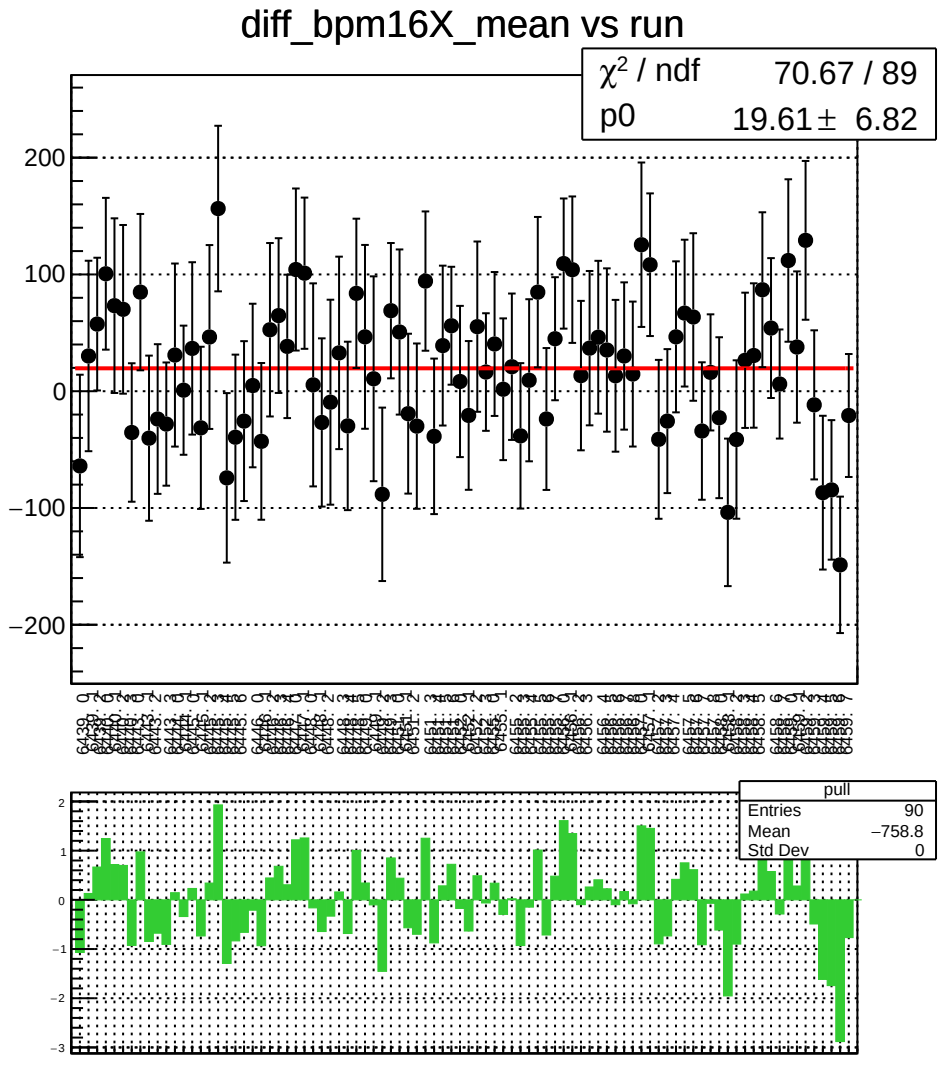
diff_bpm12X_rms vs run

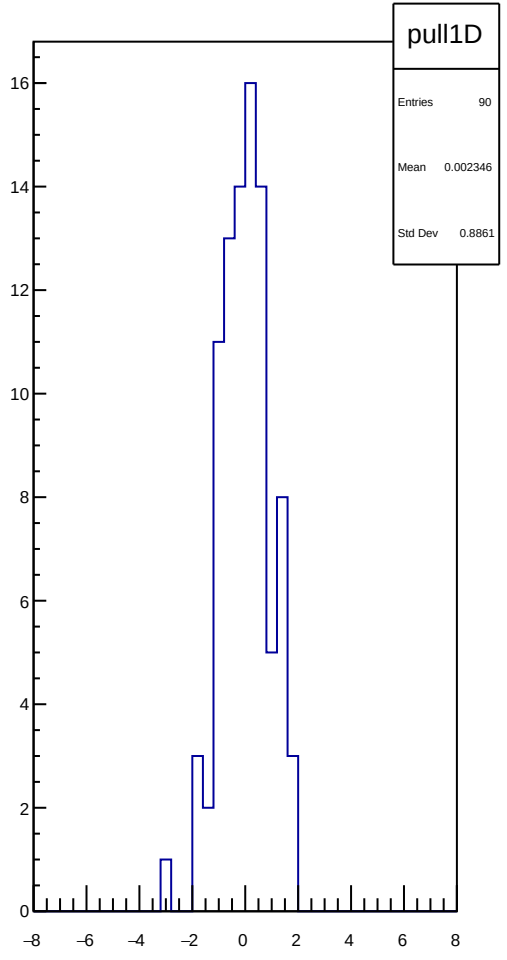


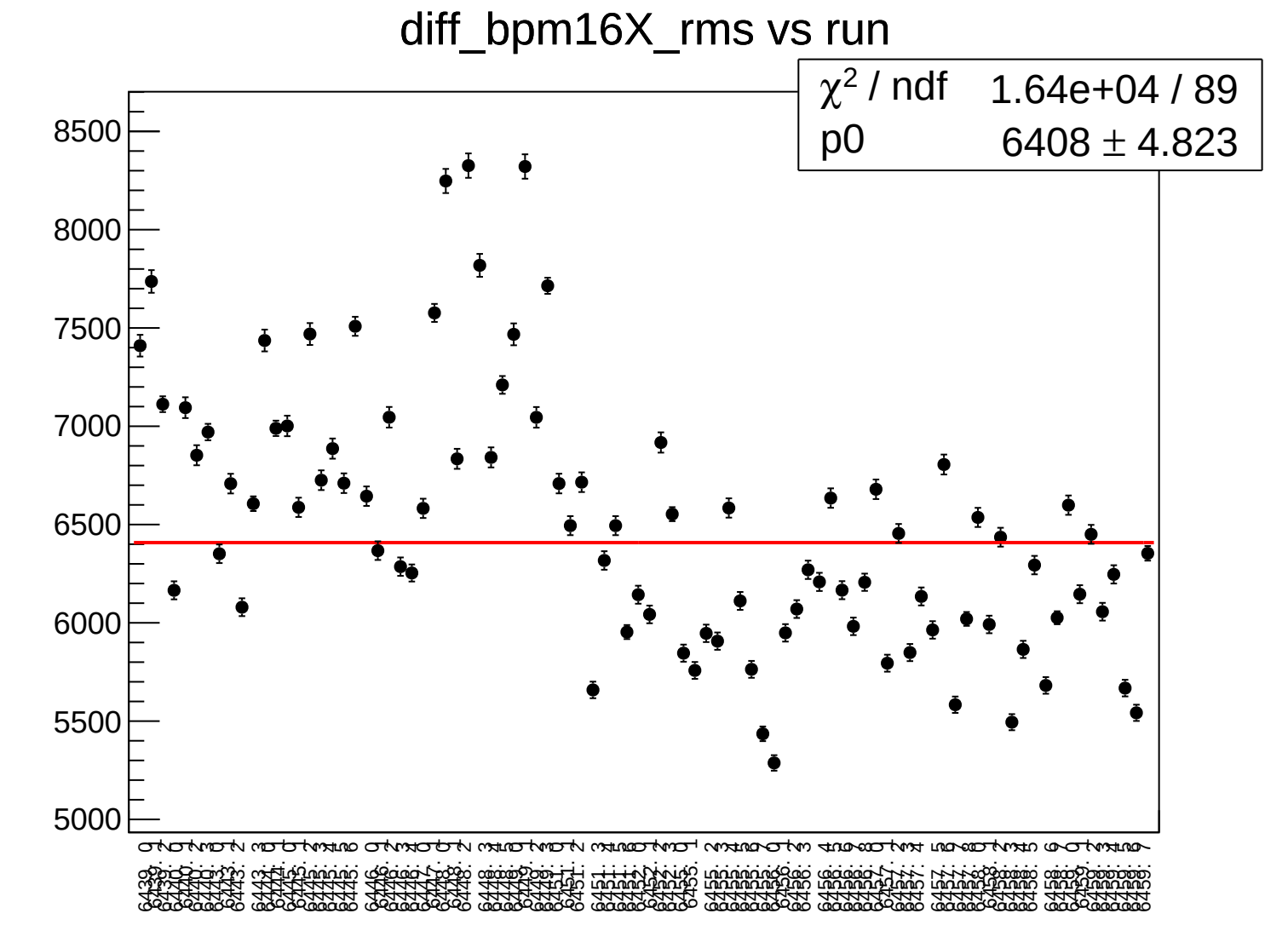

diff_bpm12Y_mean vs run
χ^2 / ndf 98.91 / 89
p0 −6.42 ± 3.199
150
100
50
0
−50
−100
−150
pull
Entries 90
Mean −159.9
Std Dev 0
3
2
1
0
−1
−2
−3

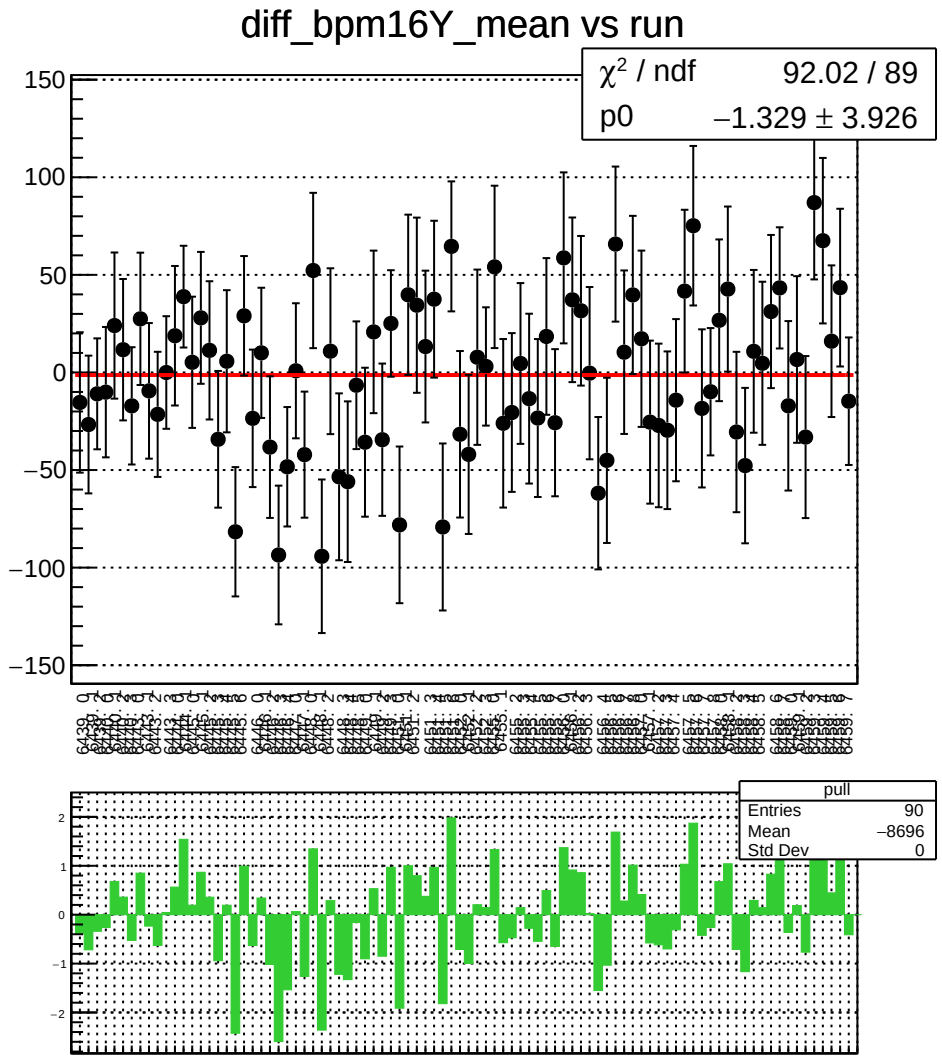

pull1D
Entries 90
Mean −0.003231
Std Dev 1.048
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

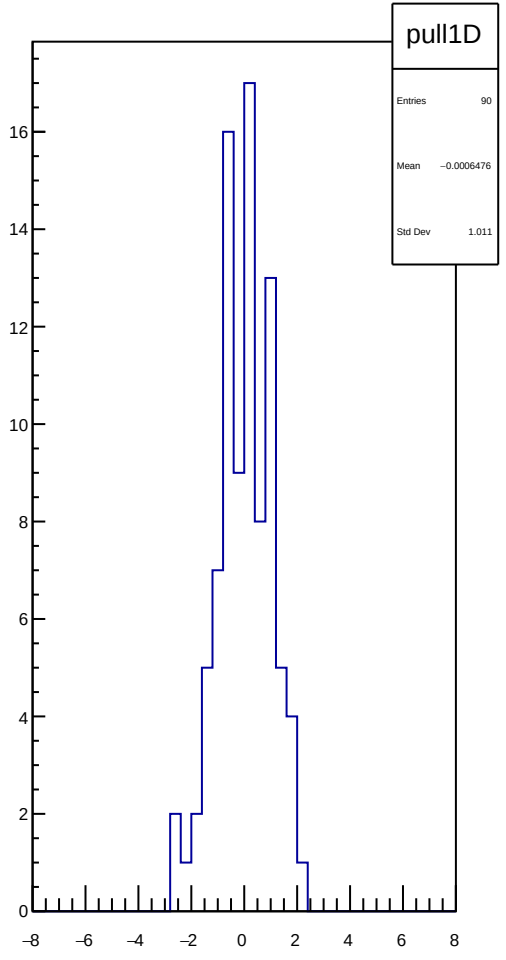

diff_bpm12Y_rms vs run
χ² / ndf 2.655e+04 / 89
p0 2998 ± 2.262
4000
3500
3000
2500
2000

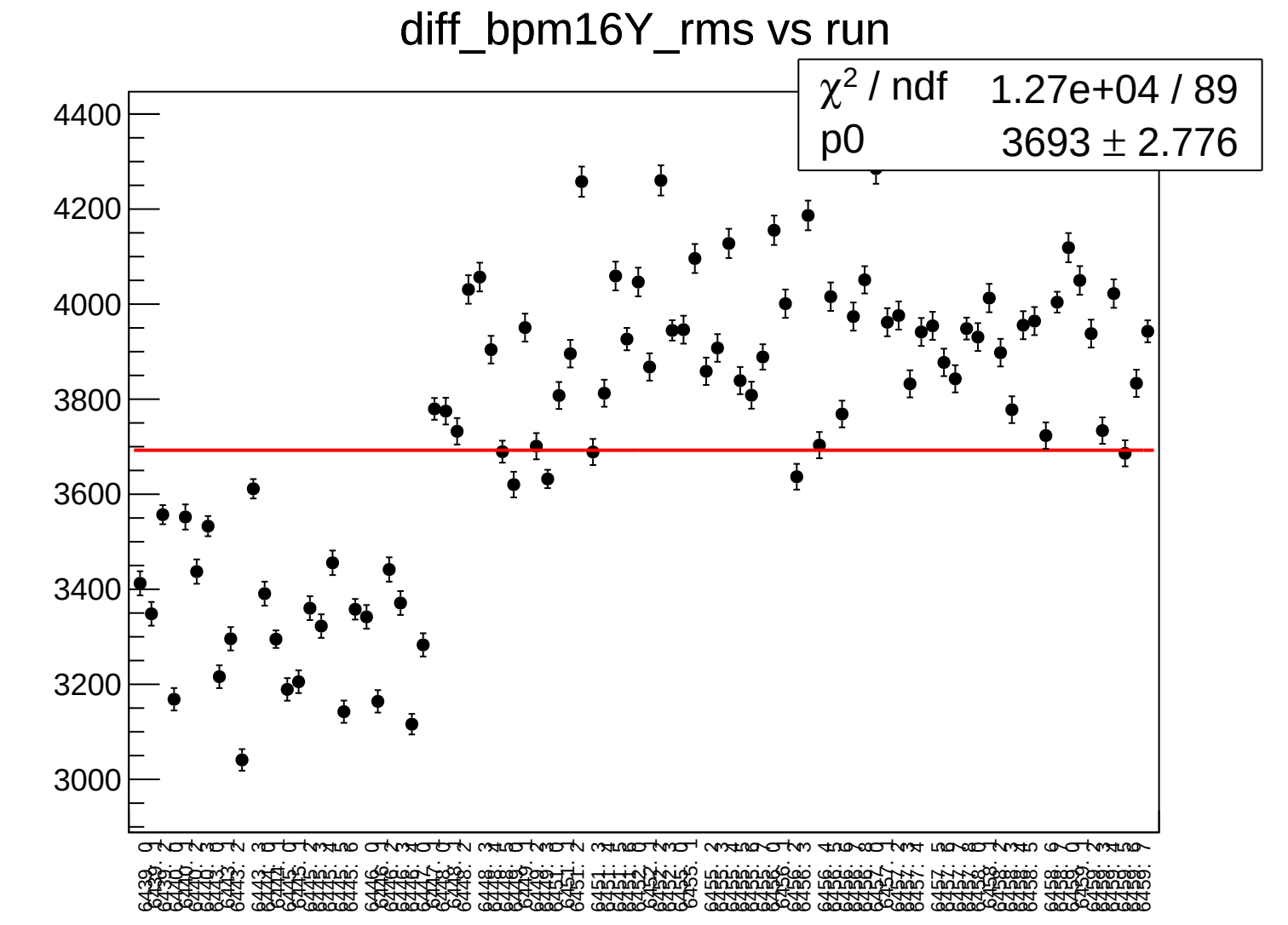

diff_bpm16X_mean vs run
χ² / ndf 70.67 / 89
p0 19.61 ± 6.82
200
100
0
−100
−200
pull
Entries 90
Mean −758.8
Std Dev 0
2
1
0
−1
−2
−3

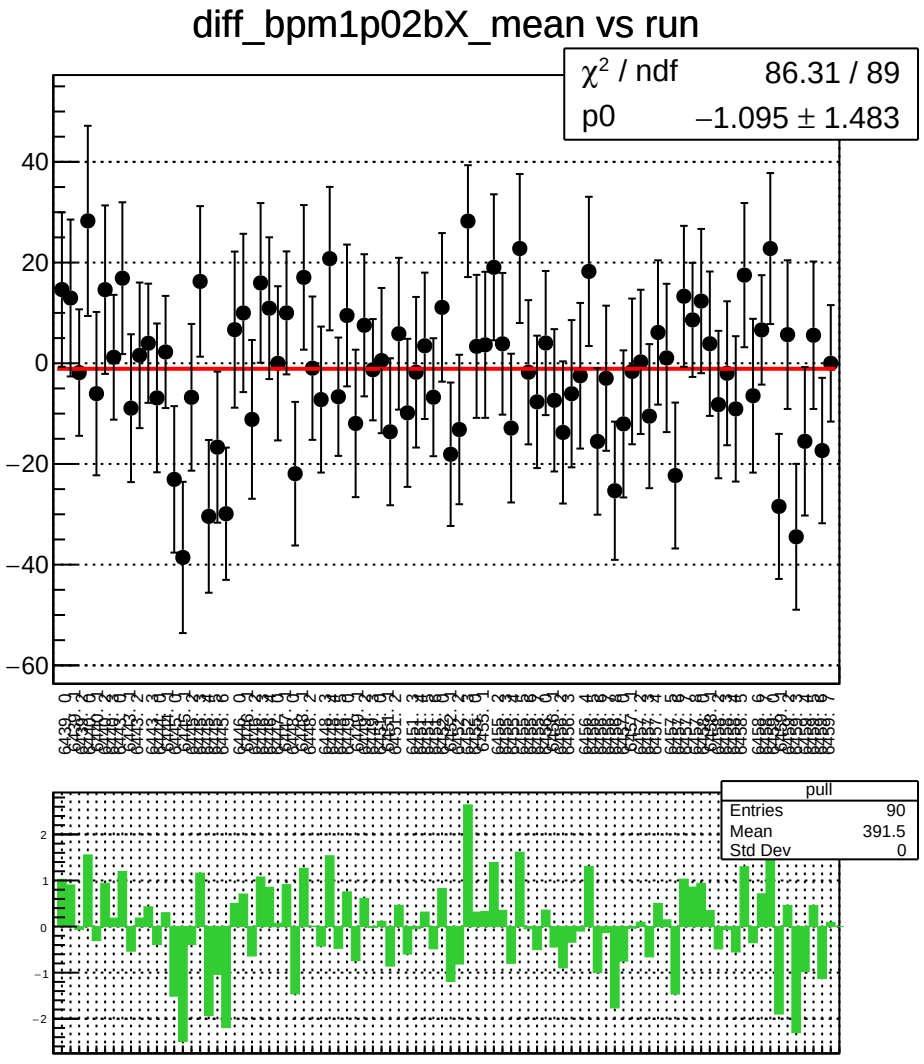

pull1D
Entries 90
Mean 0.002346
Std Dev 0.8861
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

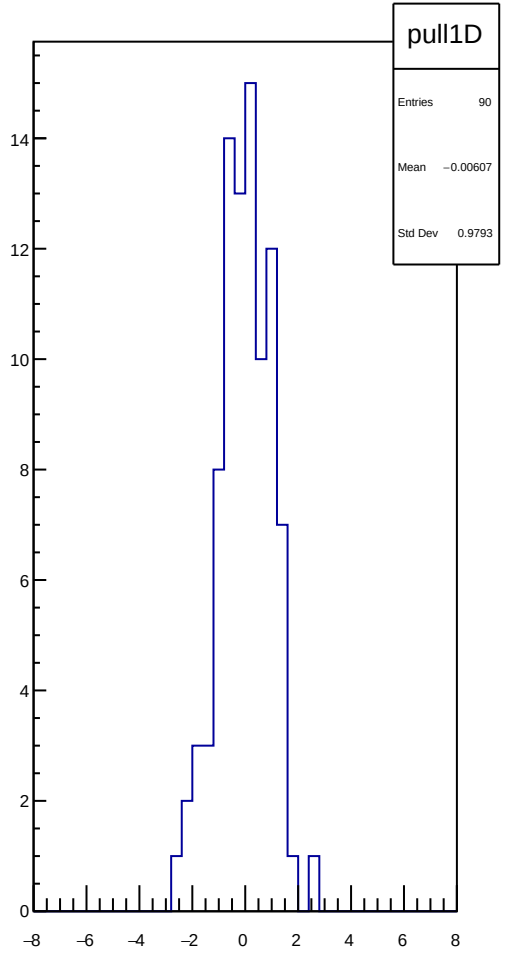

diff_bpm16X_rms vs run
χ² / ndf 1.64e+04 / 89
p0 6408 ± 4.823
8500
8000
7500
7000
6500
6000
5500
5000

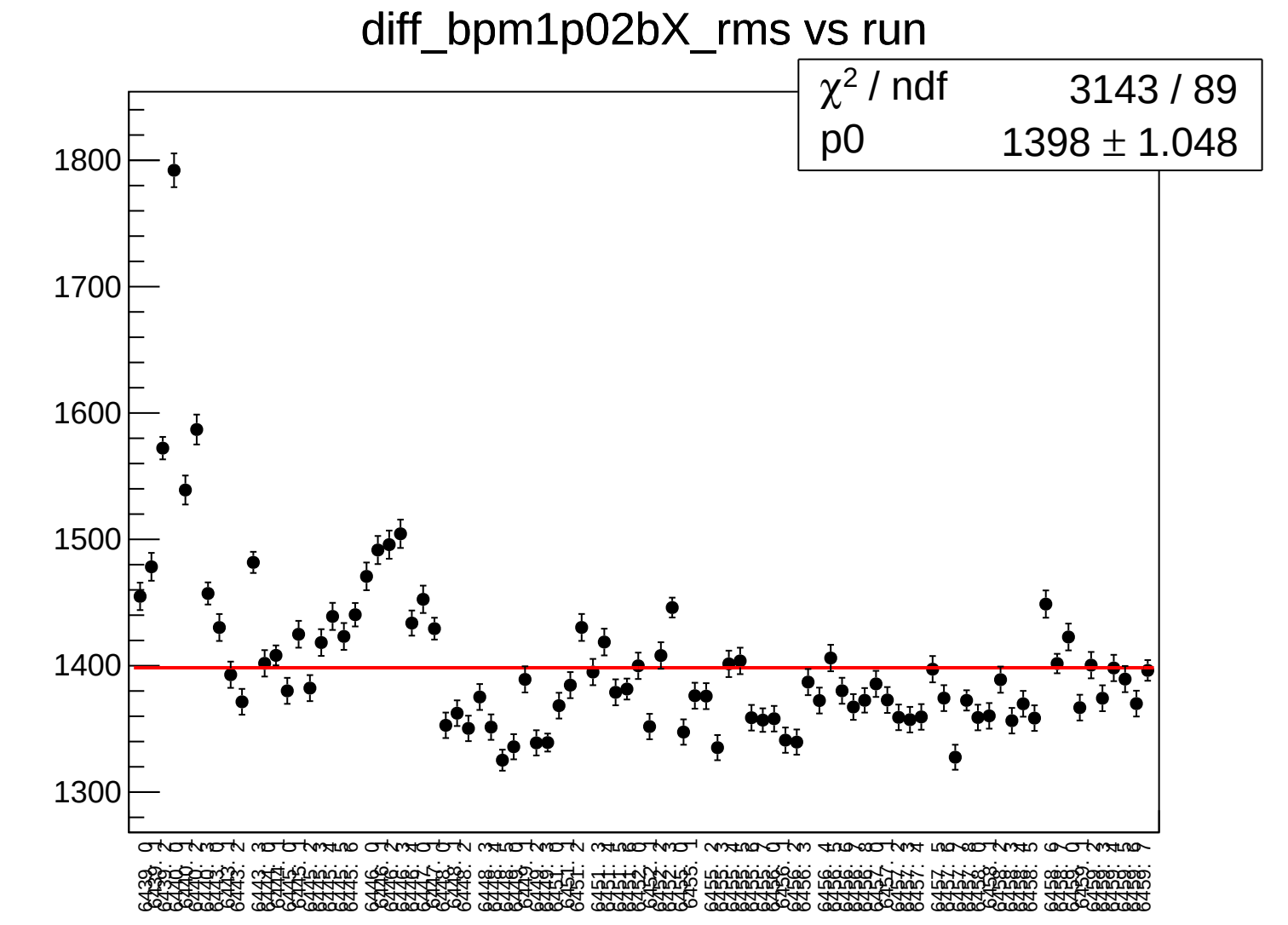

diff_bpm16Y_mean vs run
χ² / ndf 92.02 / 89
p0 −1.329 ± 3.926
150
100
50
0
−50
−100
−150
pull
Entries 90
Mean −8696
Std Dev 0
2
1
0
−1
−2

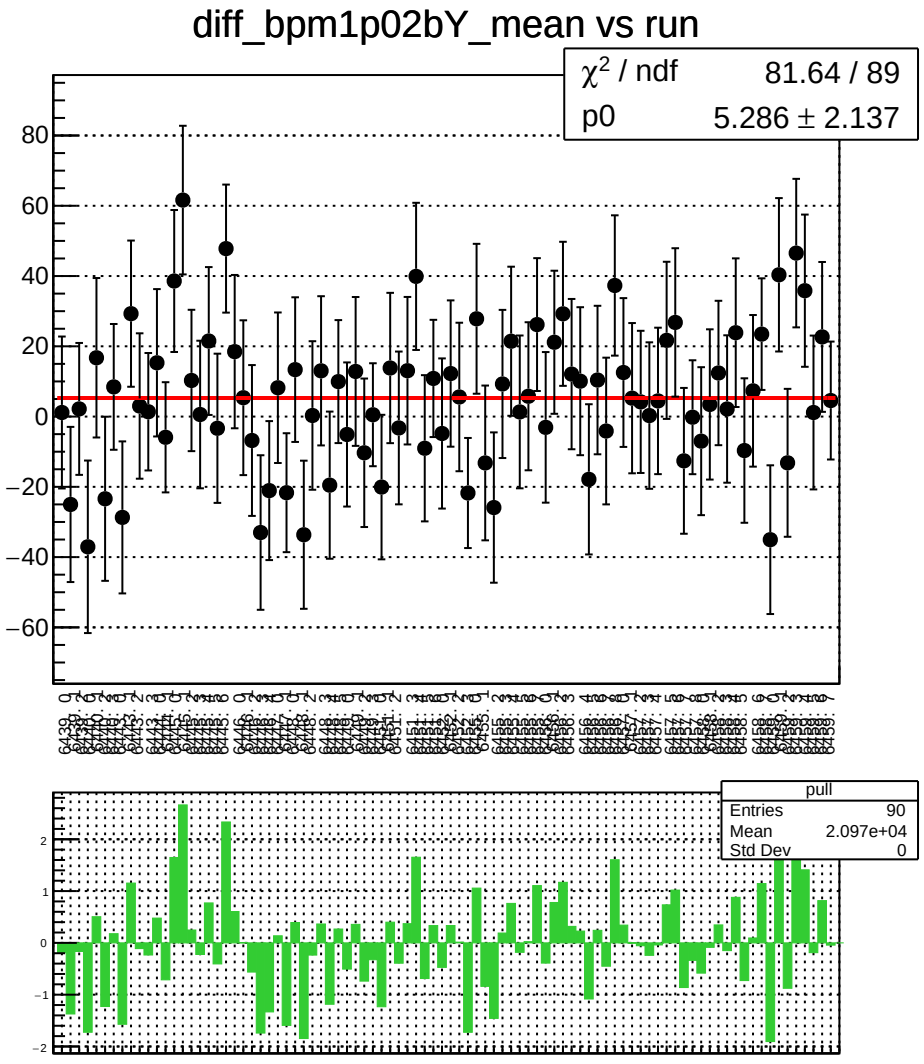

pull1D
Entries 90
Mean −0.0006476
Std Dev 1.011
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

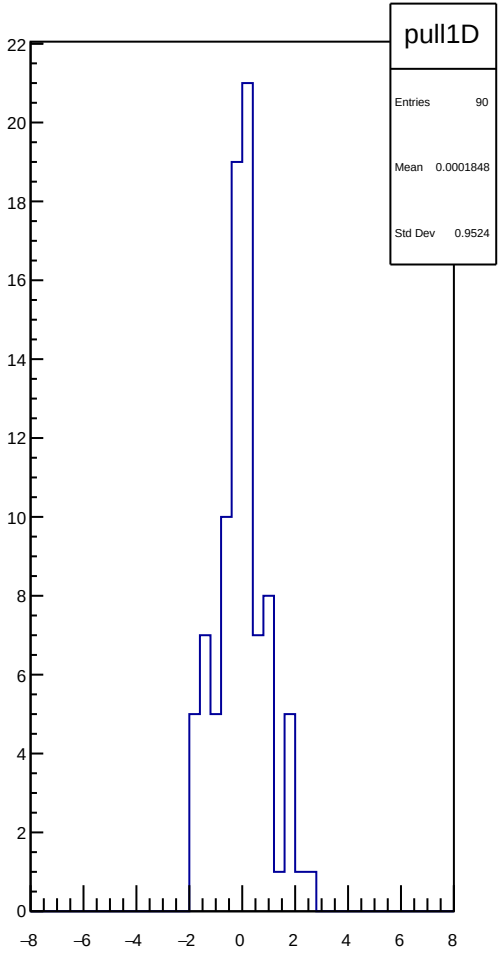

diff_bpm16Y_rms vs run
χ² / ndf 1.27e+04 / 89
p0 3693 ± 2.776
4400
4200
4000
3800
3600
3400
3200
3000

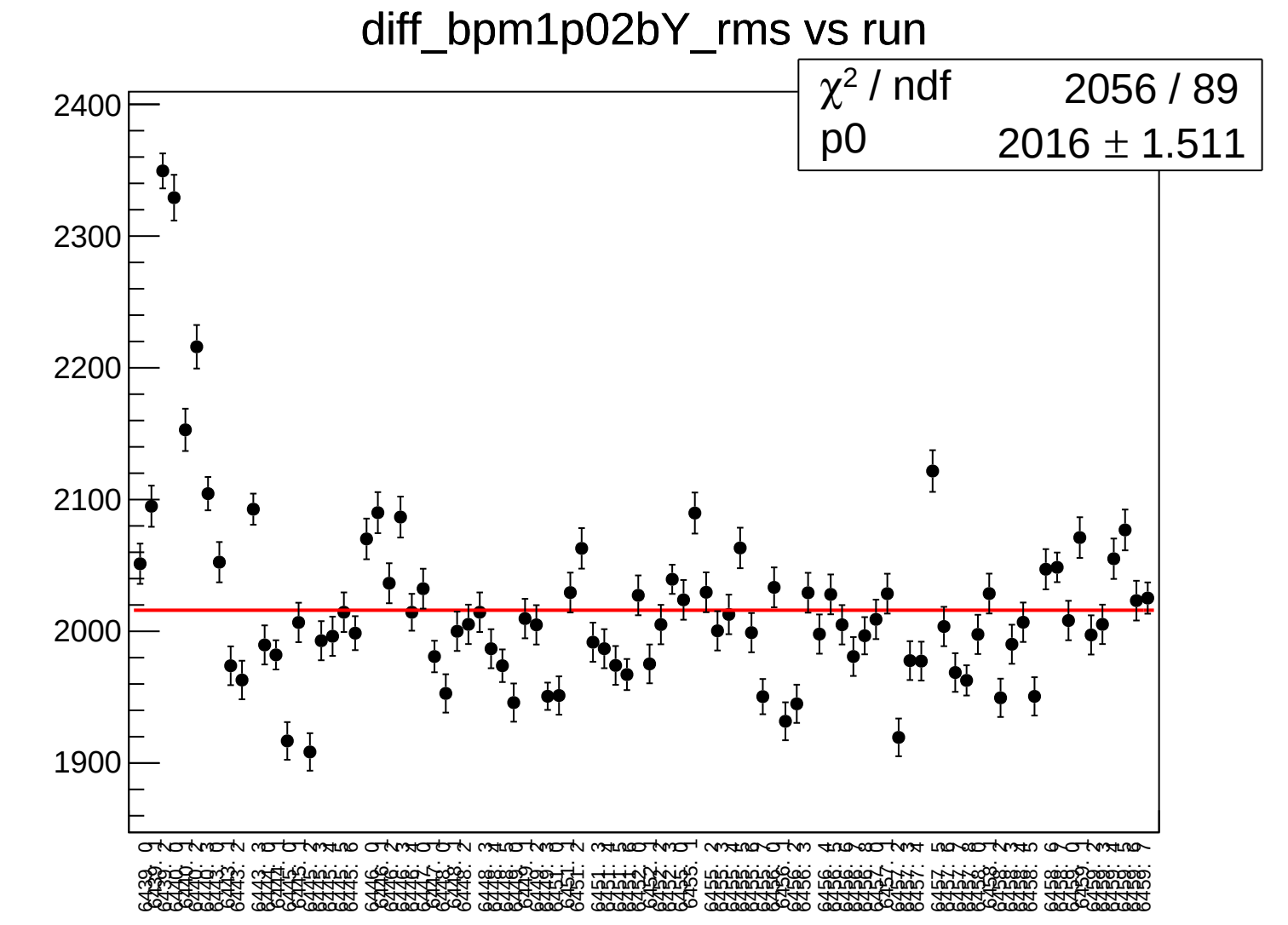

diff_bpm1p02bX_mean vs run
χ² / ndf 86.31 / 89
p0 −1.095 ± 1.483
40
20
0
−20
−40
−60
pull
Entries 90
Mean 391.5
Std Dev 0
2
1
0
−1
−2

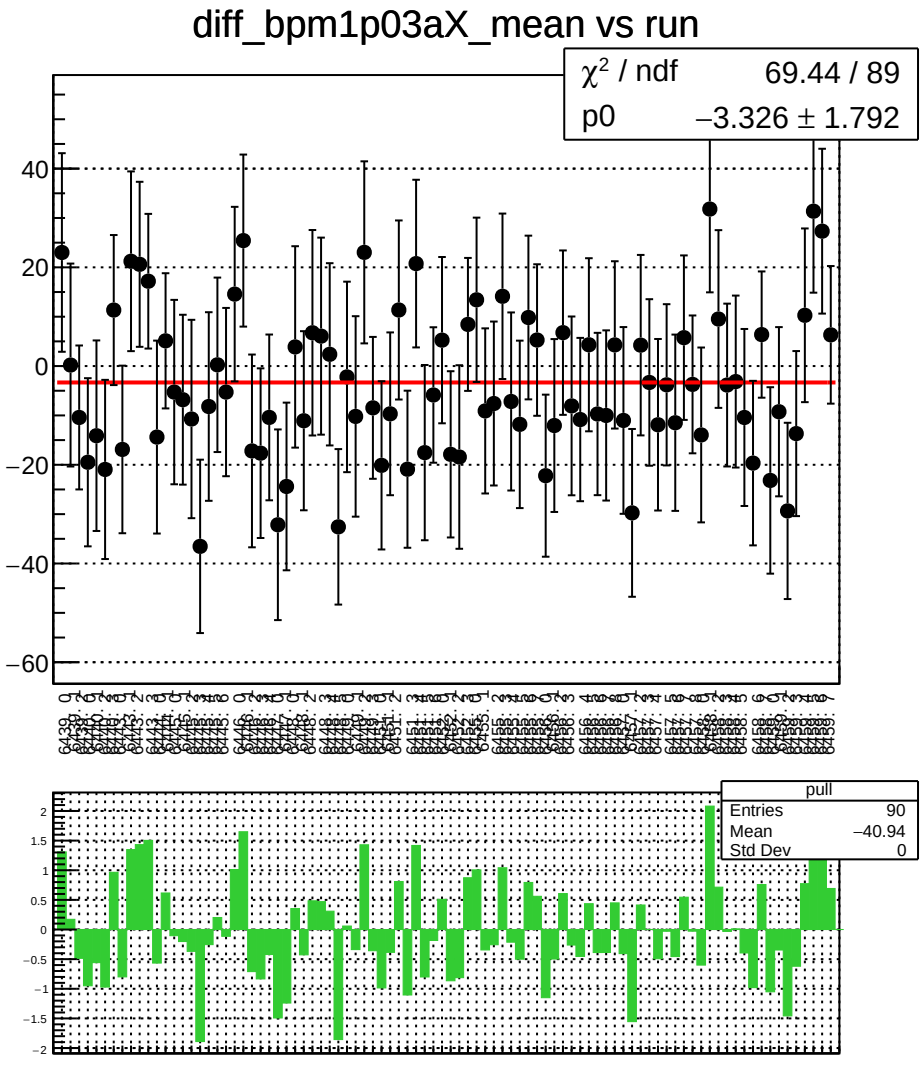

pull1D
Entries 90
Mean −0.00607
Std Dev 0.9793
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

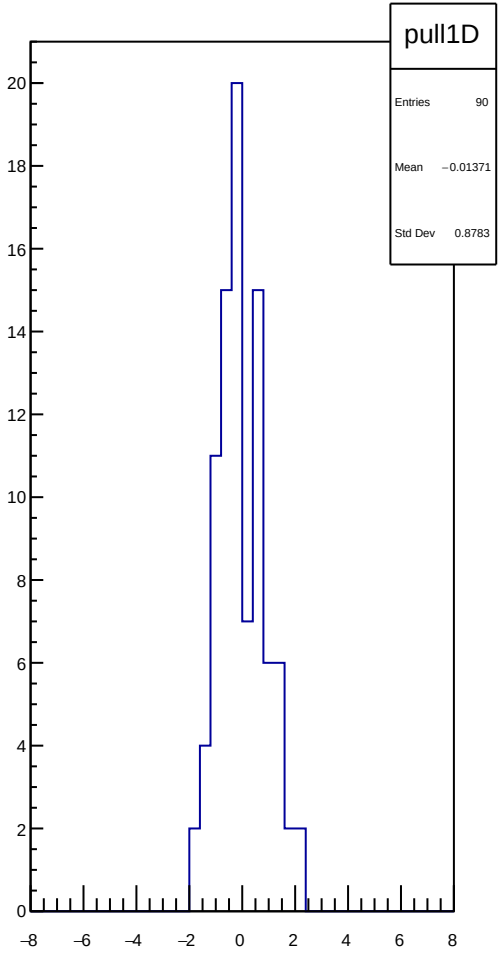

diff_bpm1p02bX_rms vs run
χ² / ndf 3143 / 89
p0 1398 ± 1.048
1800
1700
1600
1500
1400
1300

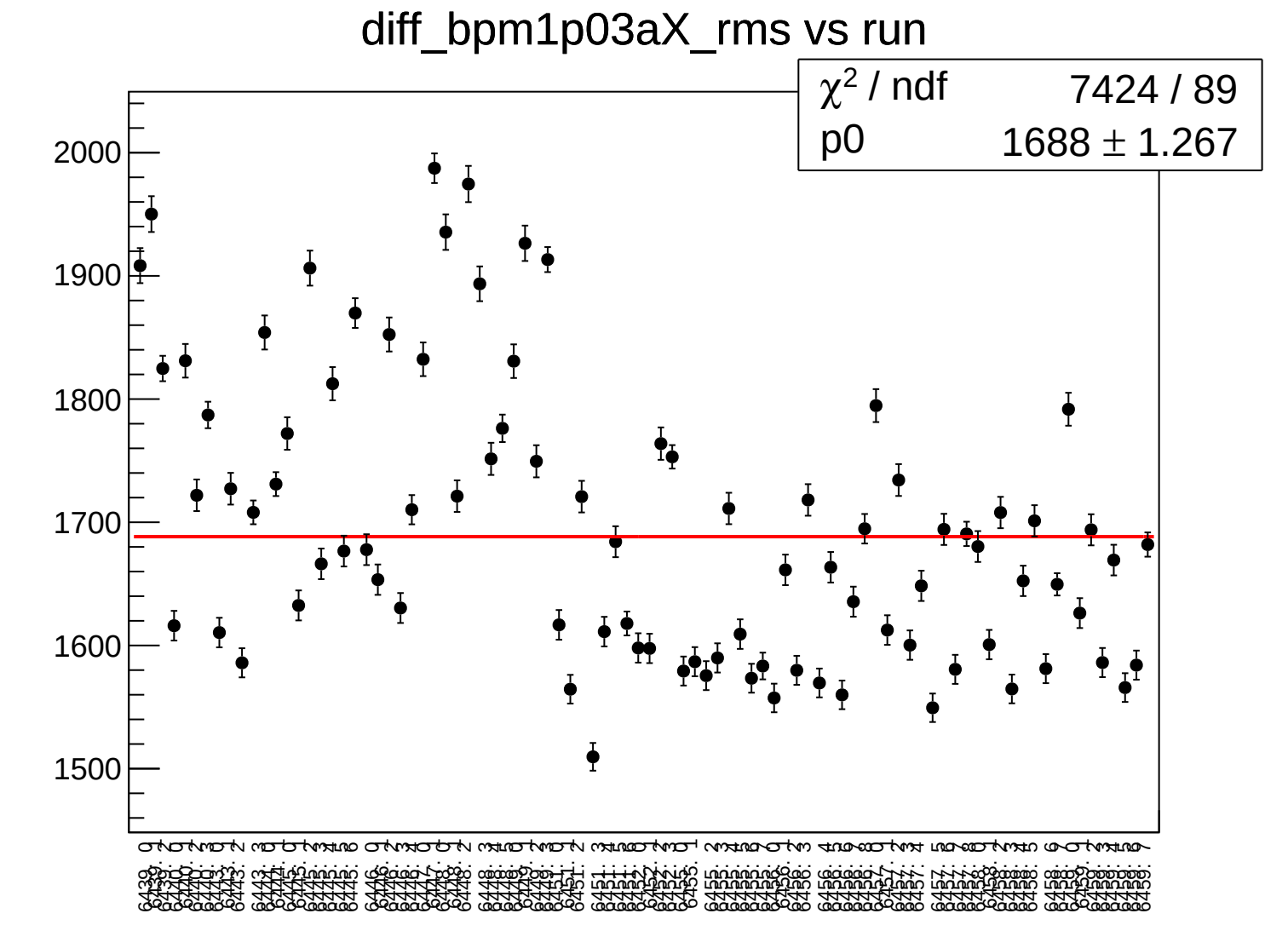

diff_bpm1p02bY_mean vs run
χ² / ndf 81.64 / 89
p0 5.286 ± 2.137
pull
Entries 90
Mean 2.097e+04
Std Dev 0

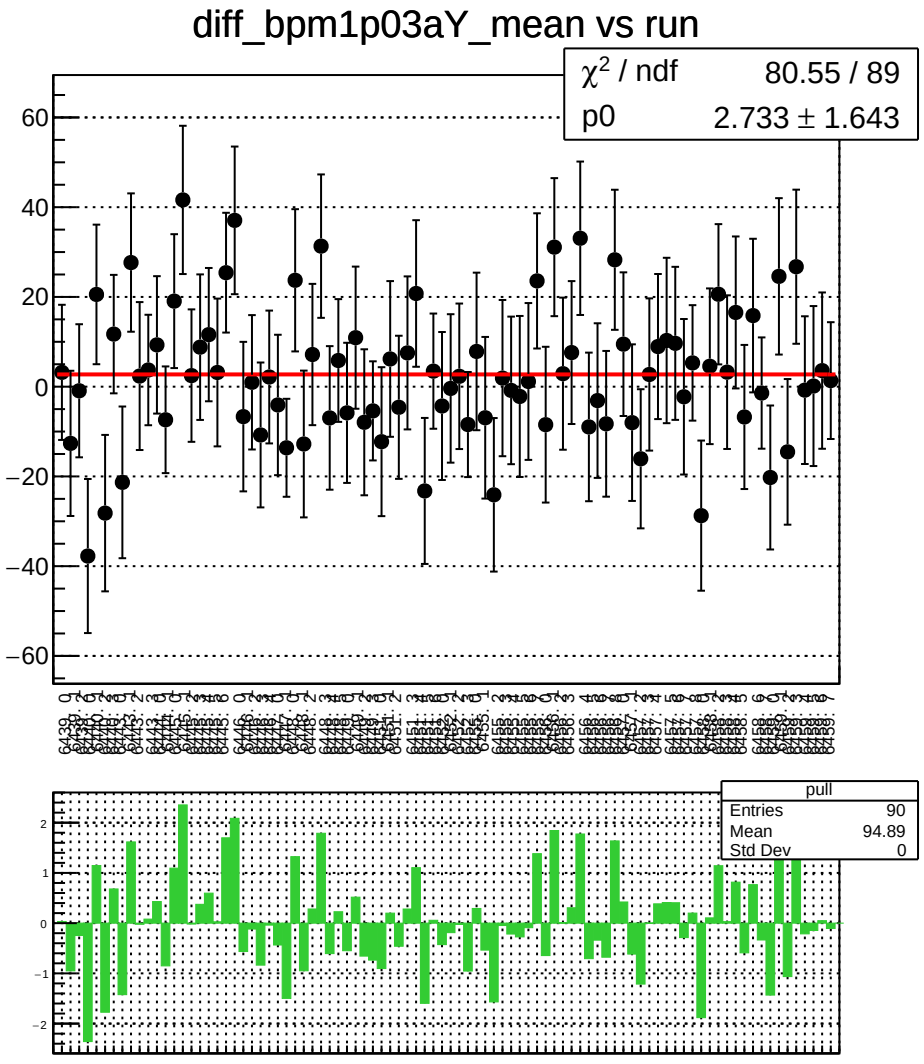

pull1D
Entries 90
Mean 0.0001848
Std Dev 0.9524

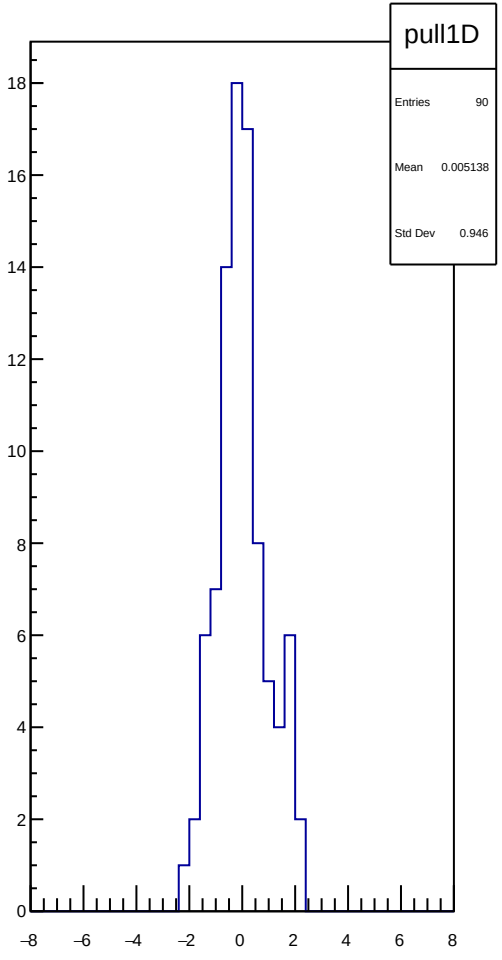

diff_bpm1p02bY_rms vs run
χ² / ndf 2056 / 89
p0 2016 ± 1.511
2400
2300
2200
2100
2000
1900

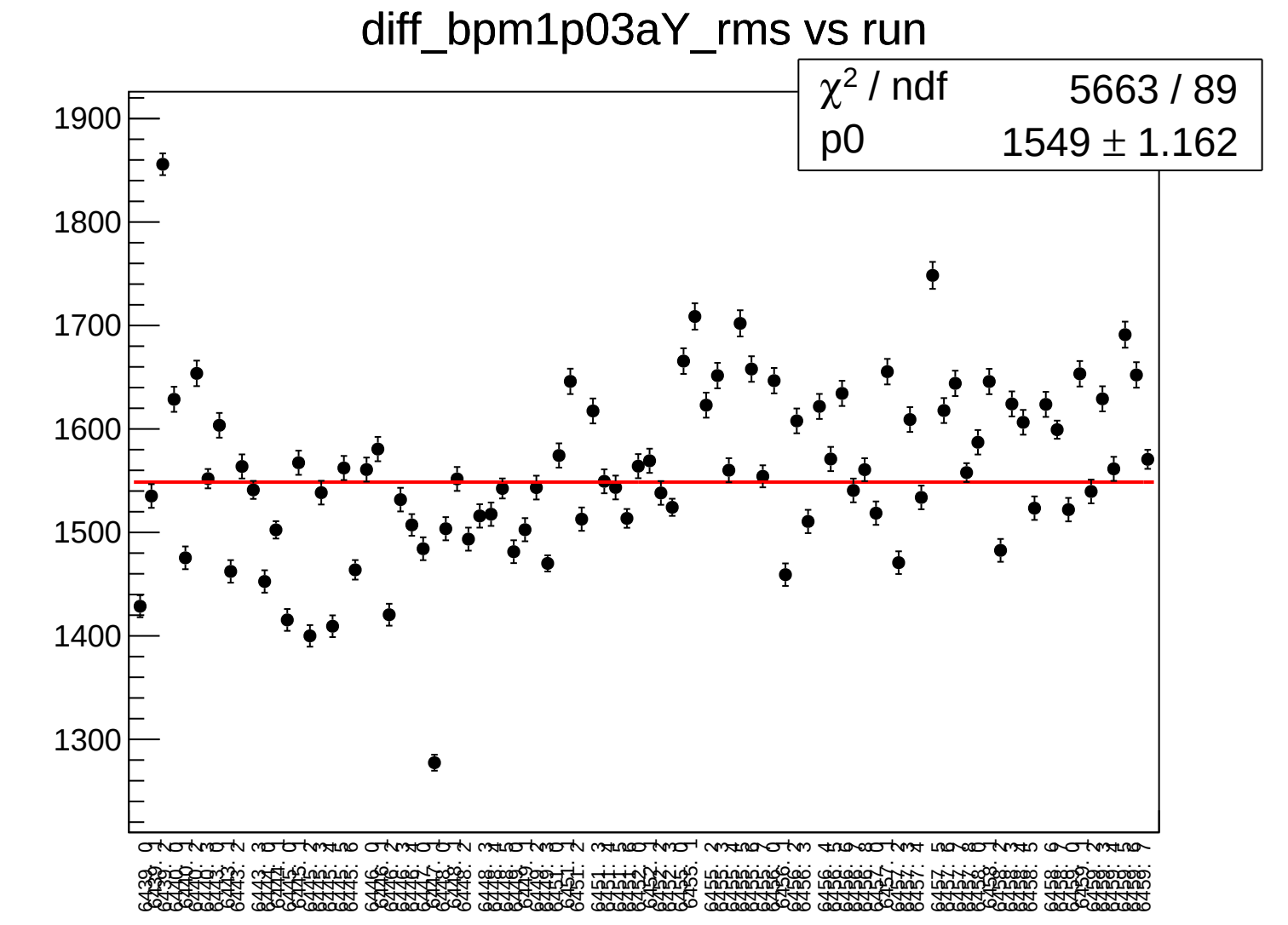

diff_bpm1p03aX_mean vs run
χ² / ndf 69.44 / 89
p0 −3.326 ± 1.792
pull
Entries 90
Mean −40.94
Std Dev 0

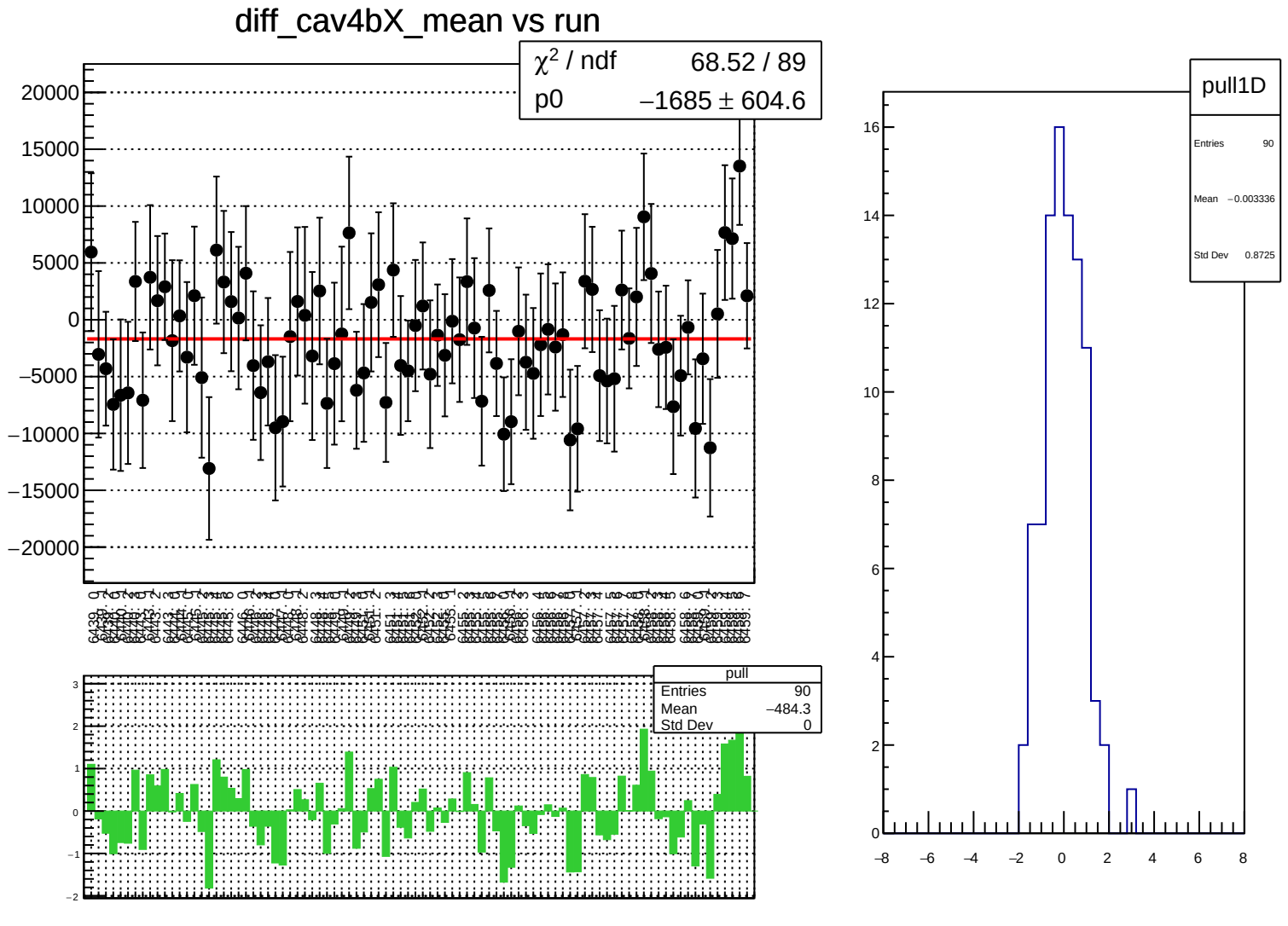

pull1D
Entries 90
Mean −0.01371
Std Dev 0.8783

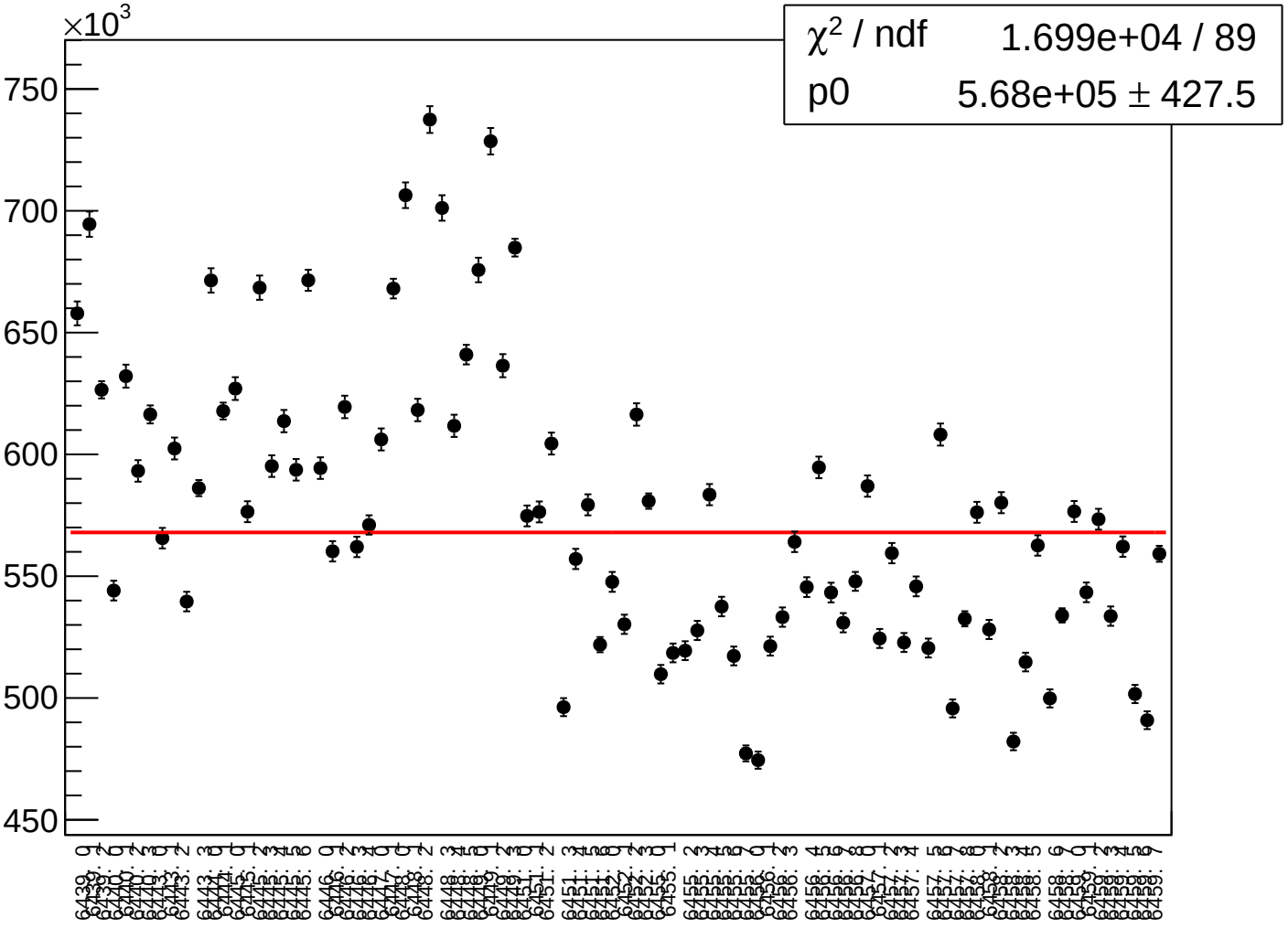

diff_bpm1p03aX_rms vs run
χ² / ndf 7424 / 89
p0 1688 ± 1.267
2000
1900
1800
1700
1600
1500

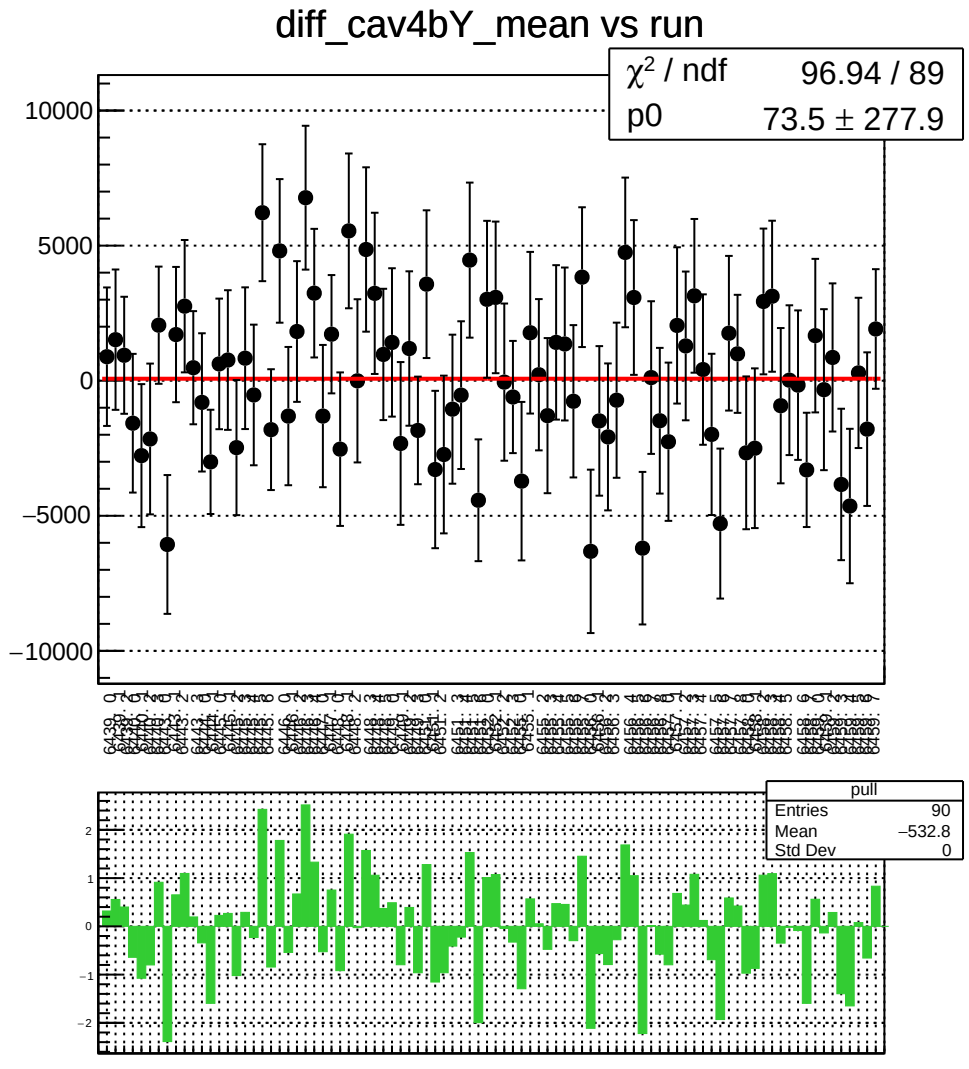

diff_bpm1p03aY_mean vs run
χ² / ndf 80.55 / 89
p0 2.733 ± 1.643
pull
Entries 90
Mean 94.89
Std Dev 0

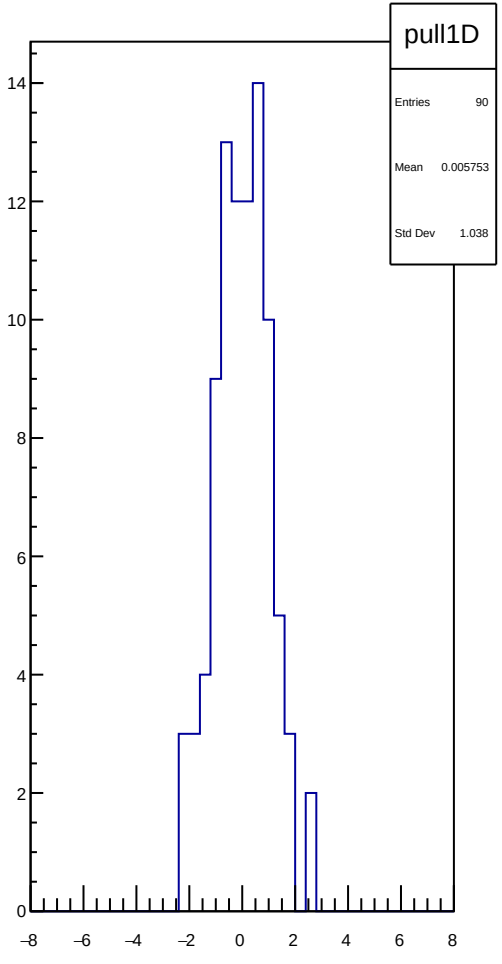

pull1D
Entries 90
Mean 0.005138
Std Dev 0.946

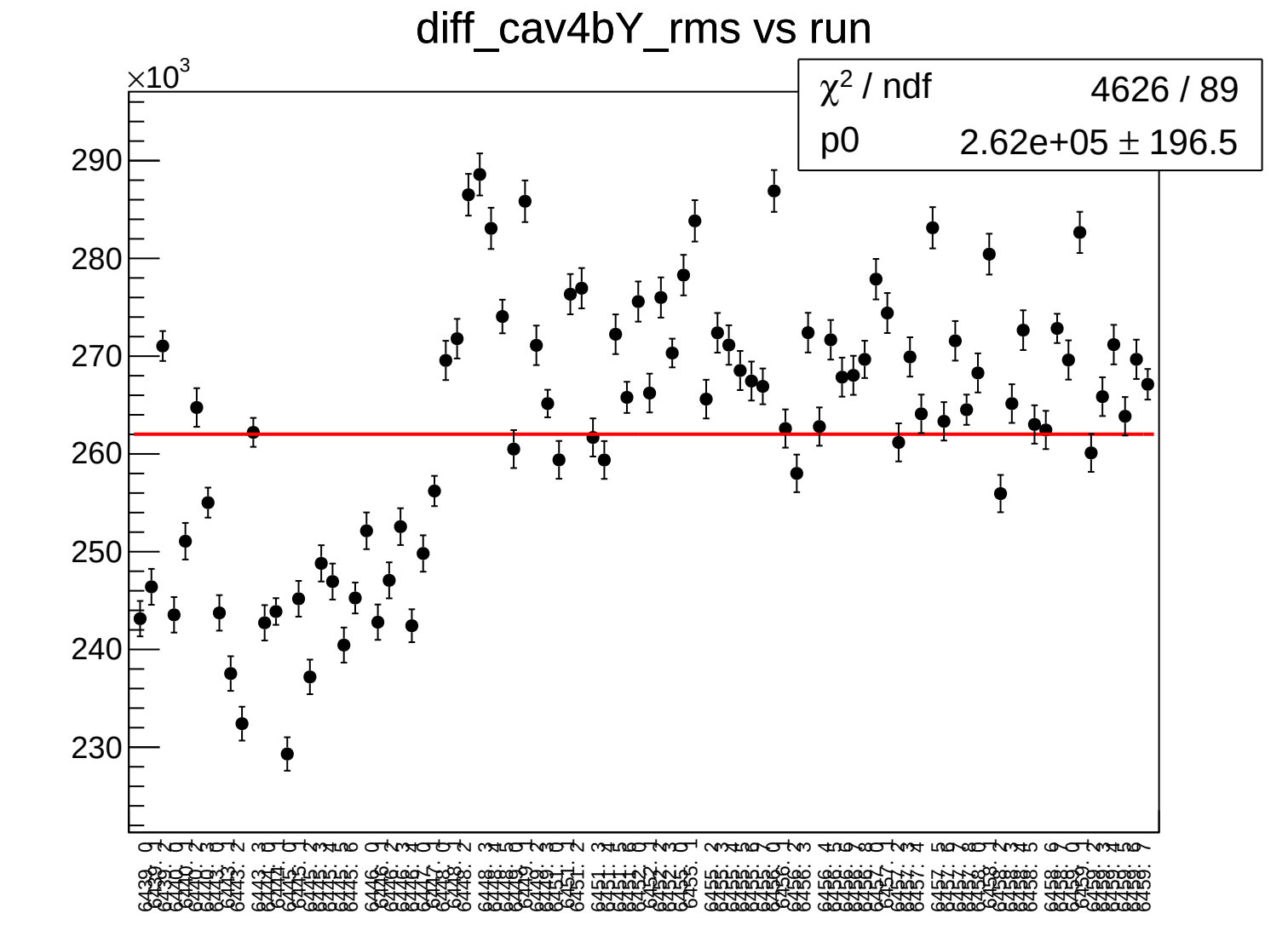

diff_bpm1p03aY_rms vs run
χ² / ndf 5663 / 89
p0 1549 ± 1.162
1900
1800
1700
1600
1500
1400
1300

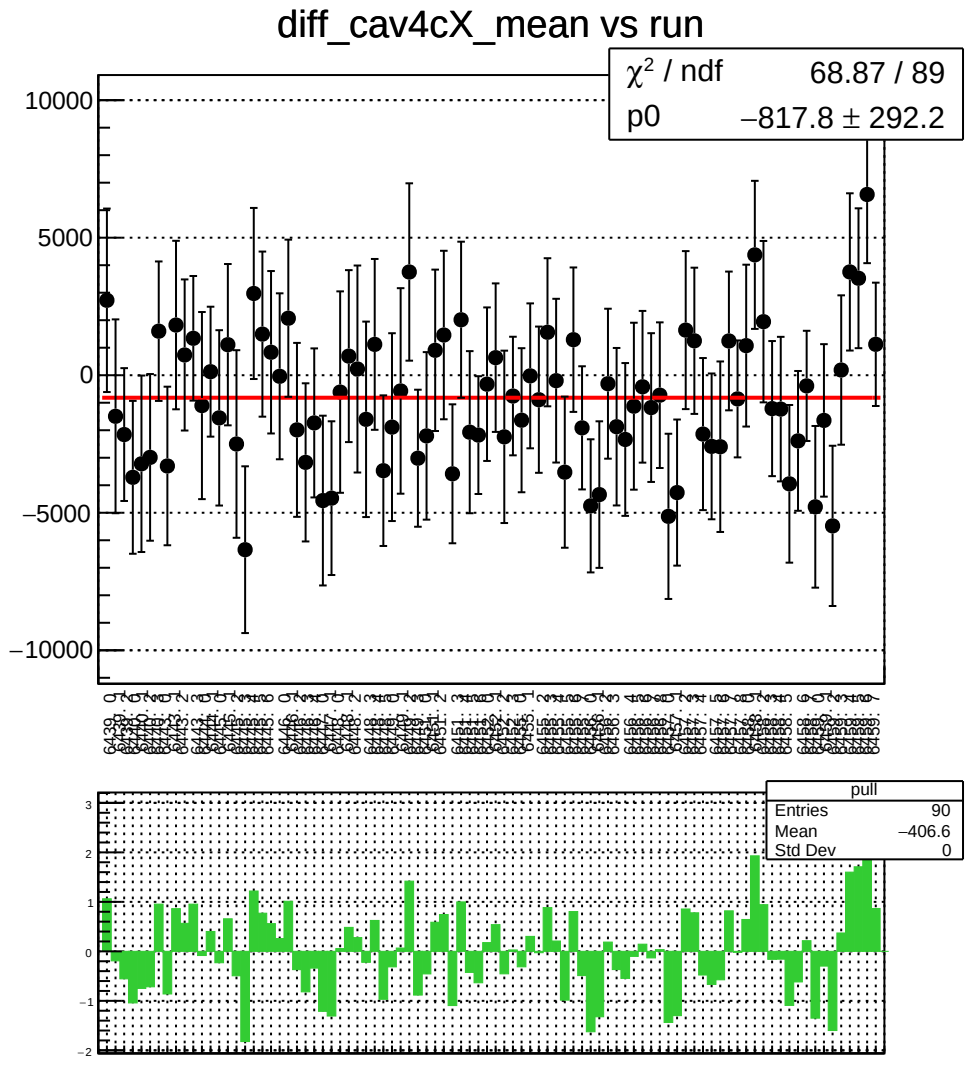

diff_cav4bX_mean vs run
χ² / ndf 68.52 / 89
p0 −1685 ± 604.6
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 90
Mean −484.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.003336
Std Dev 0.8725
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

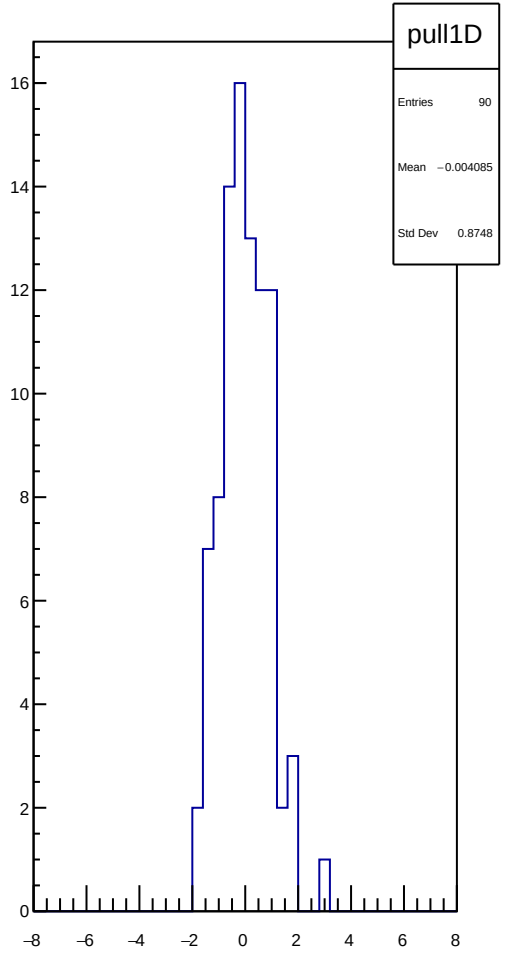

diff_cav4bX_rms vs run
×10^3
750
700
650
600
550
500
450
χ² / ndf 1.699e+04 / 89
p0 5.68e+05 ± 427.5

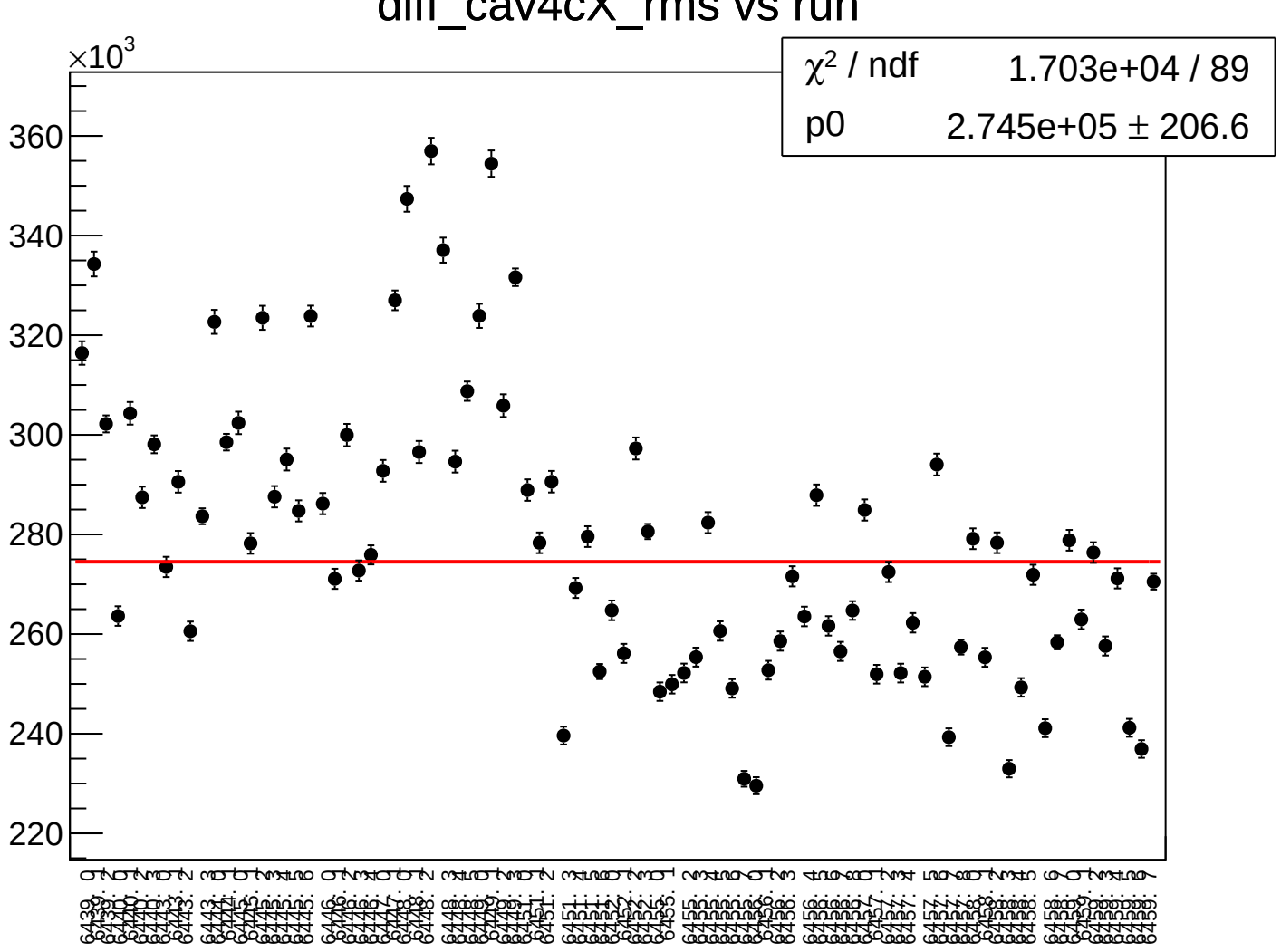

diff_cav4bY_mean vs run
χ² / ndf 96.94 / 89
p0 73.5 ± 277.9
10000
5000
0
−5000
−10000
pull
Entries 90
Mean −532.8
Std Dev 0
2
1
0
−1
−2

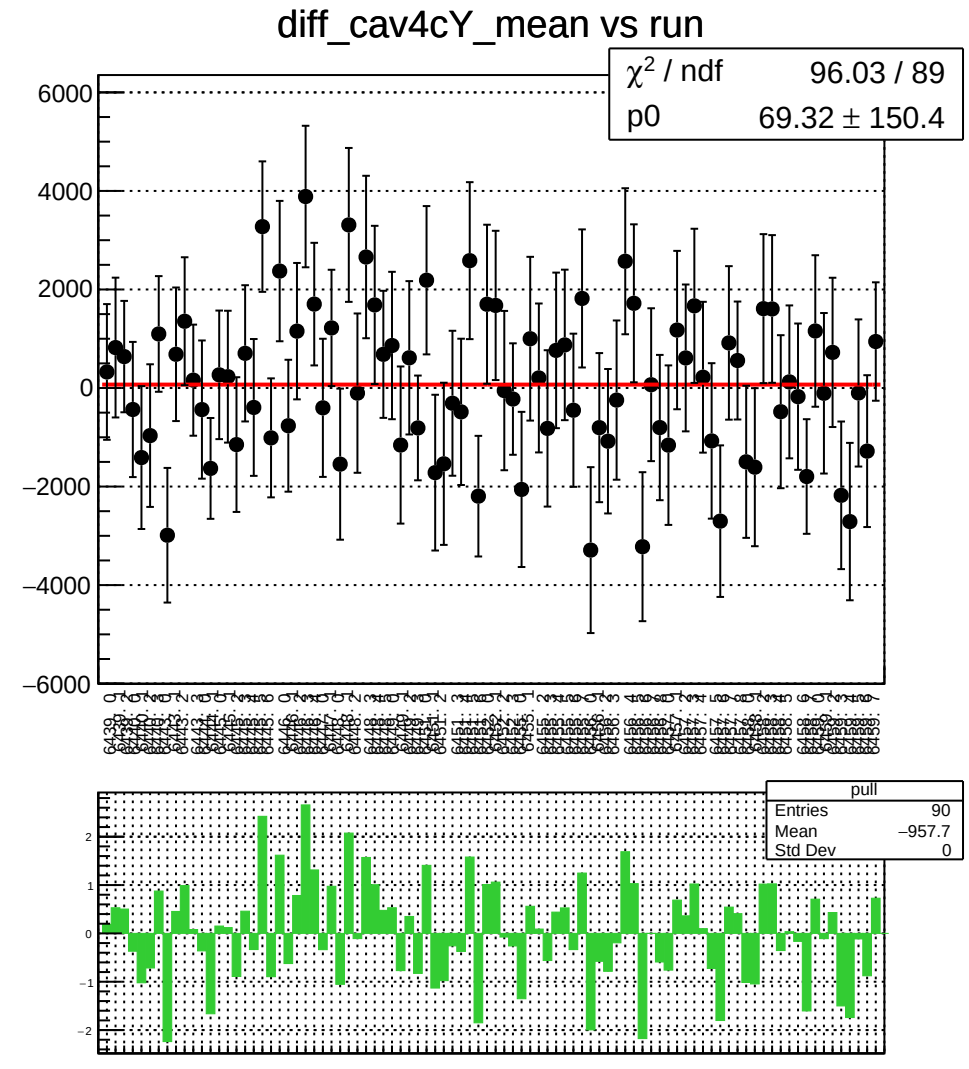

pull1D
Entries 90
Mean 0.005753
Std Dev 1.038
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

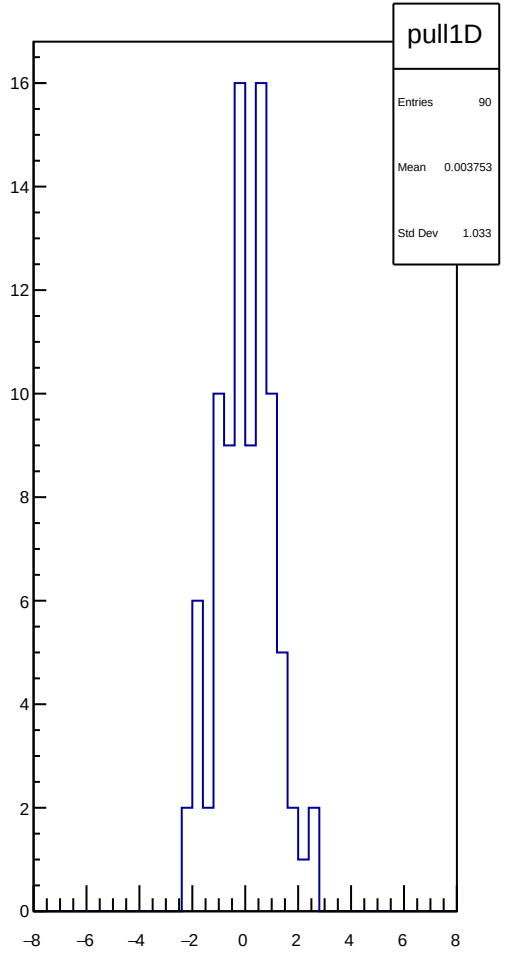

diff_cav4bY_rms vs run
×10^3
290
280
270
260
250
240
230
χ² / ndf 4626 / 89
p0 2.62e+05 ± 196.5

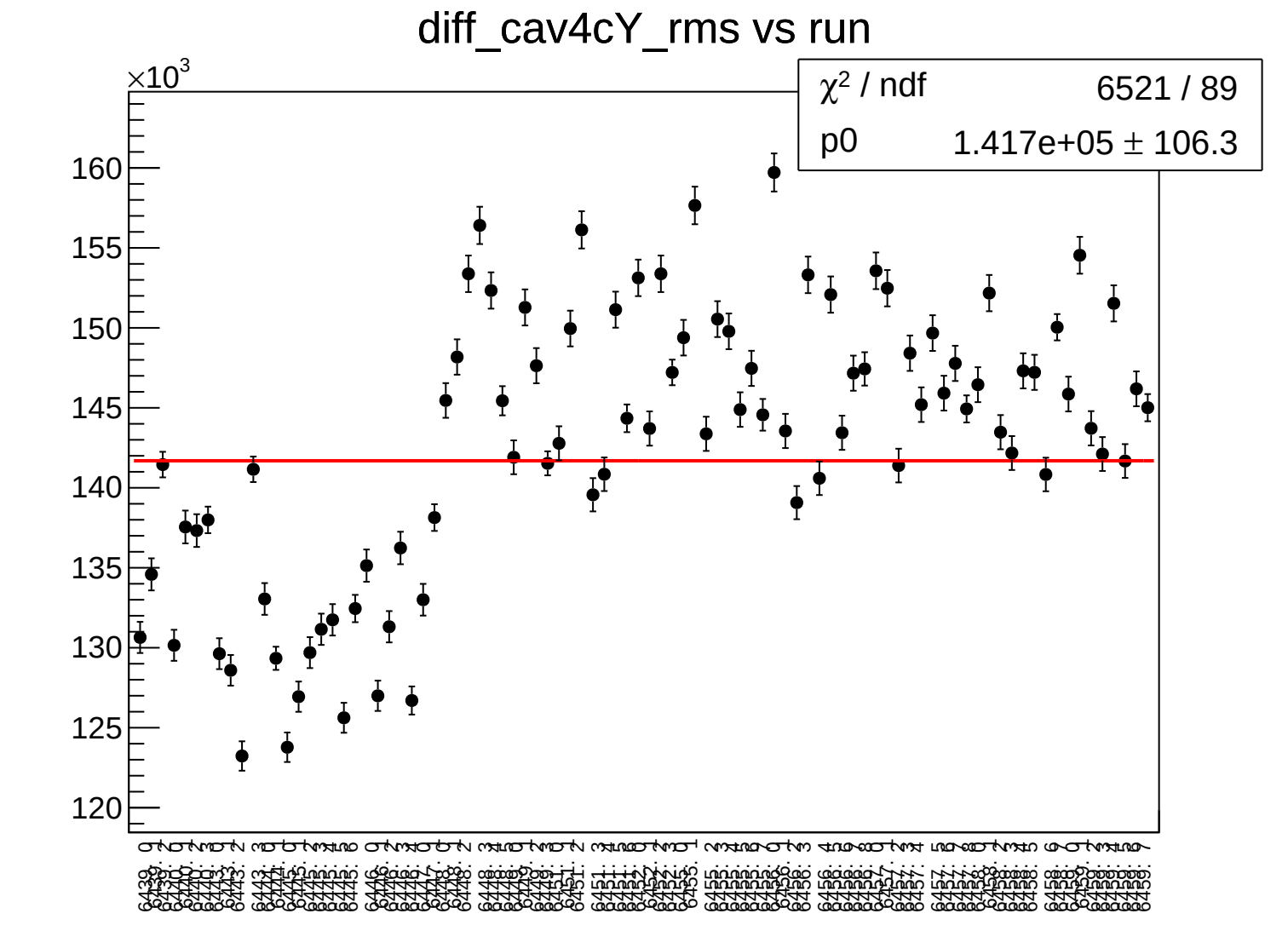

diff_cav4cX_mean vs run
χ² / ndf 68.87 / 89
p0 −817.8 ± 292.2
10000
5000
0
−5000
−10000
pull
Entries 90
Mean −406.6
Std Dev 0
3
2
1
0
−1
−2

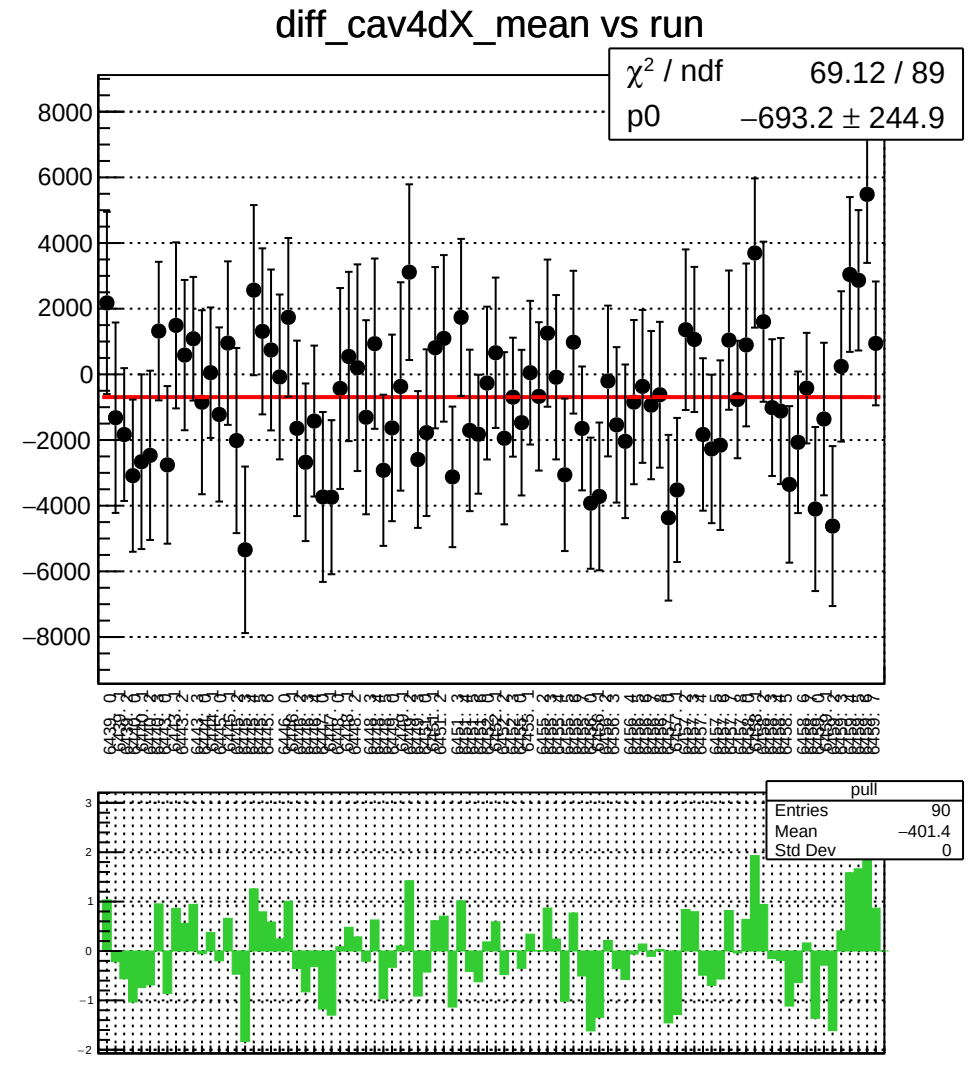

pull1D
Entries 90
Mean −0.004085
Std Dev 0.8748
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

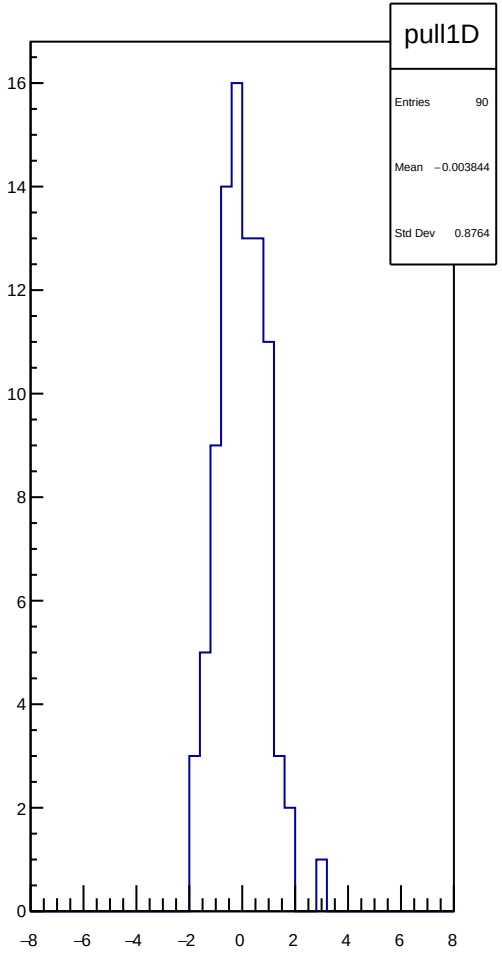

diff_cav4cX_rms vs run
×10^3
χ² / ndf 1.703e+04 / 89
p0 2.745e+05 ± 206.6
360
340
320
300
280
260
240
220

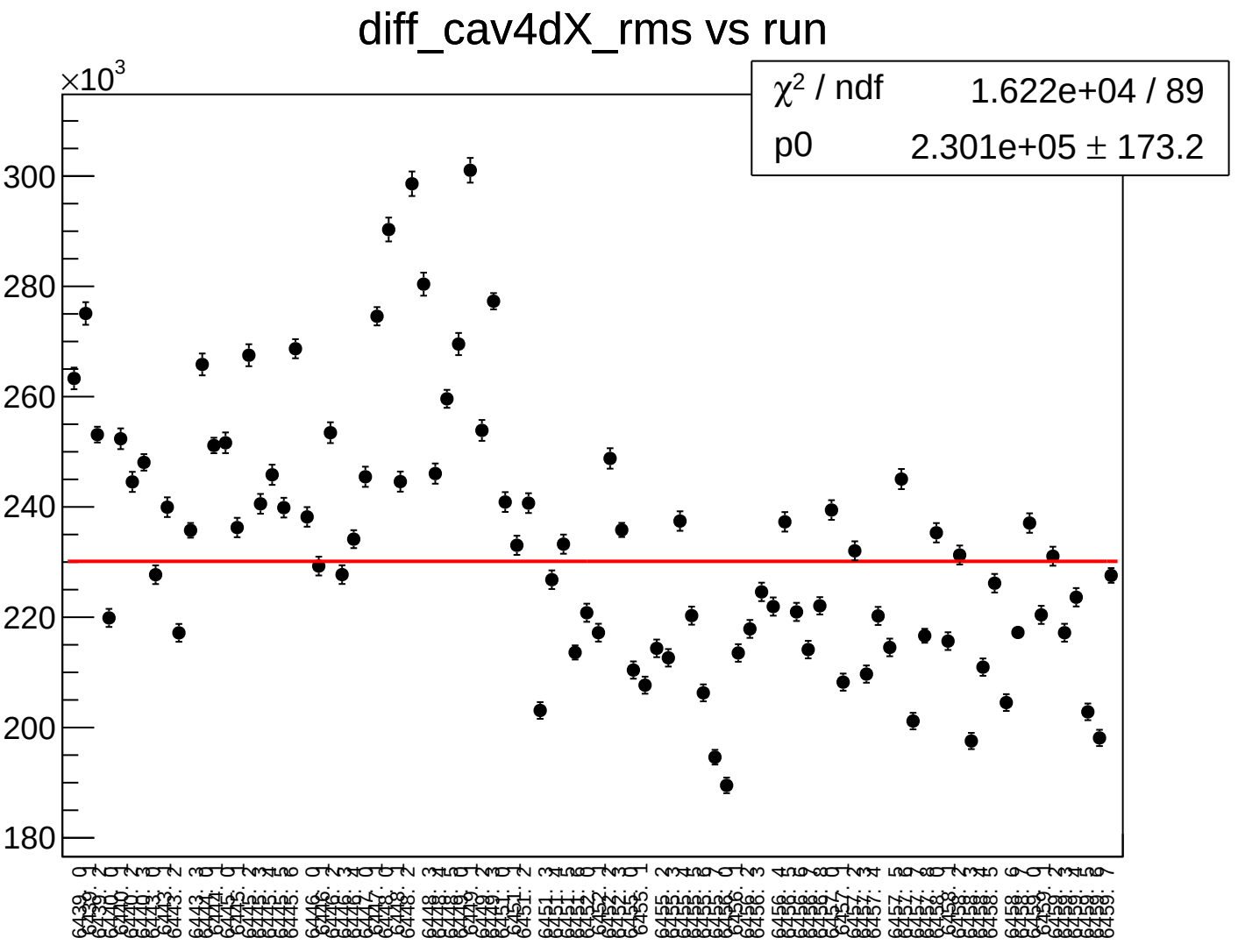

diff_cav4cY_mean vs run
χ^2 / ndf 96.03 / 89
p0 69.32 ± 150.4
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 90
Mean −957.7
Std Dev 0
2
1
0
−1
−2

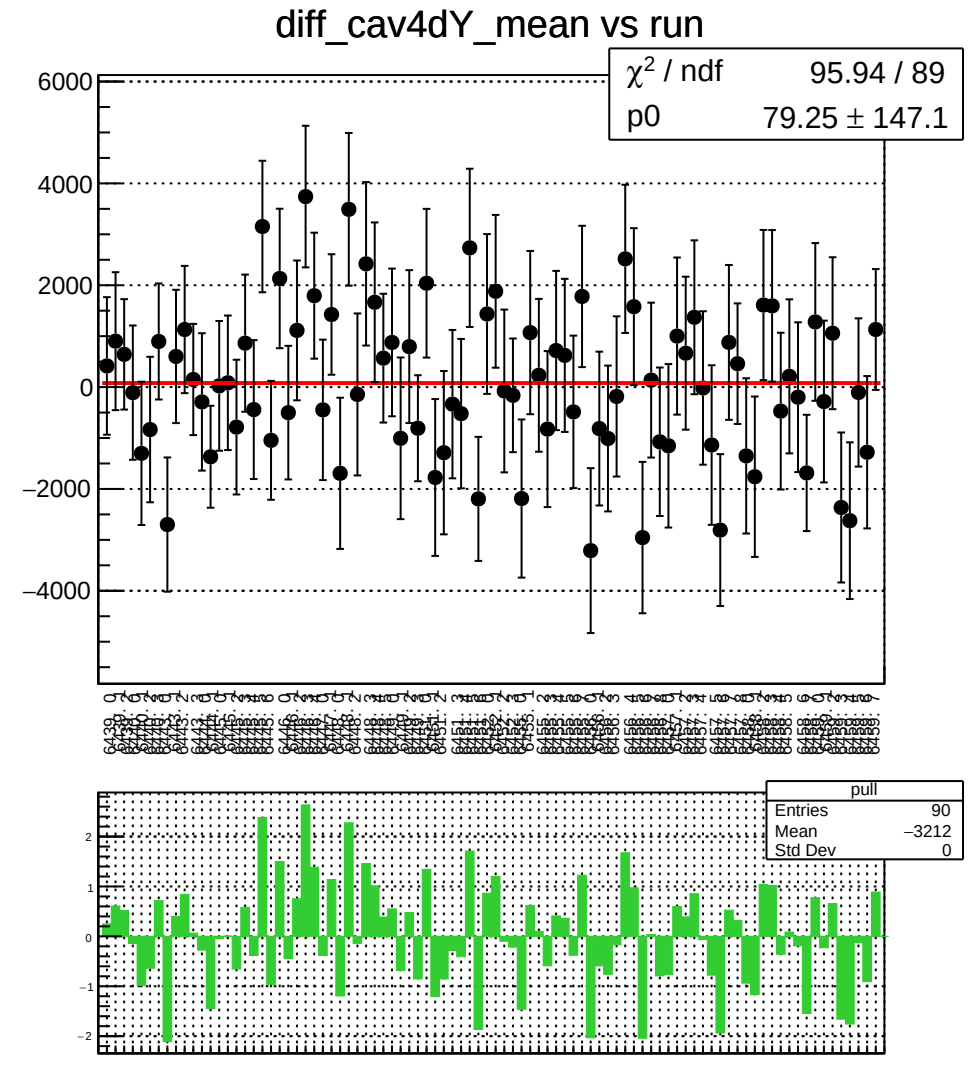

pull1D
Entries 90
Mean 0.003753
Std Dev 1.033
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

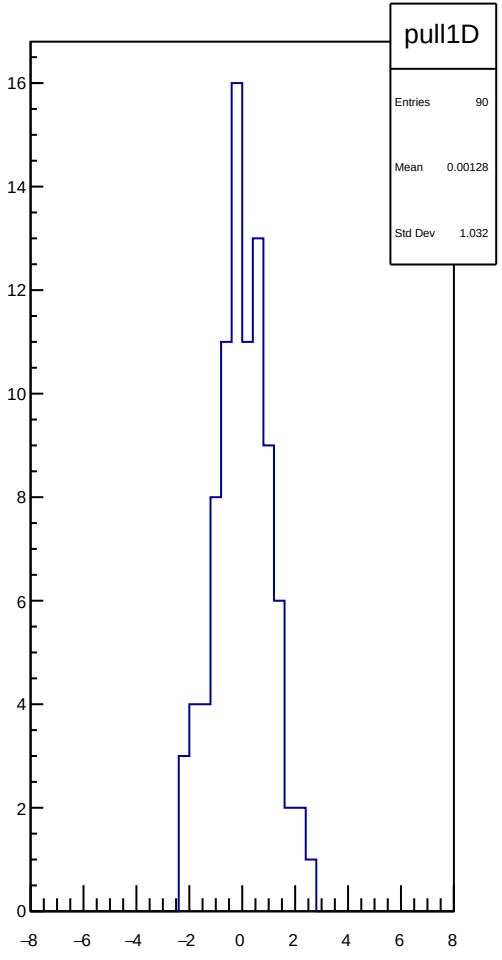

diff_cav4cY_rms vs run
×10^3
χ² / ndf 6521 / 89
p0 1.417e+05 ± 106.3
160
155
150
145
140
135
130
125
120

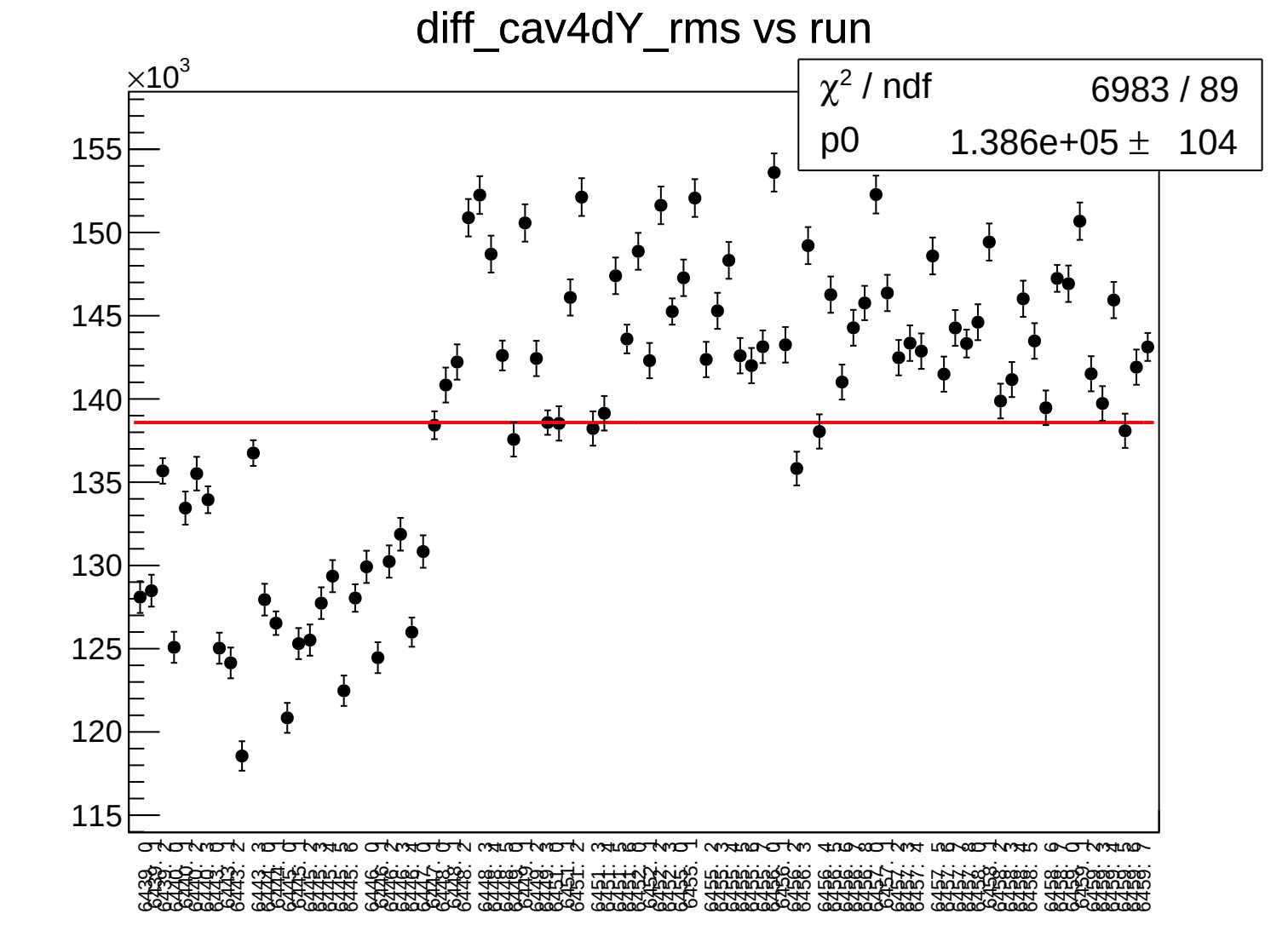

diff_cav4dX_mean vs run
χ² / ndf 69.12 / 89
p0 −693.2 ± 244.9
pull
Entries 90
Mean −401.4
Std Dev 0

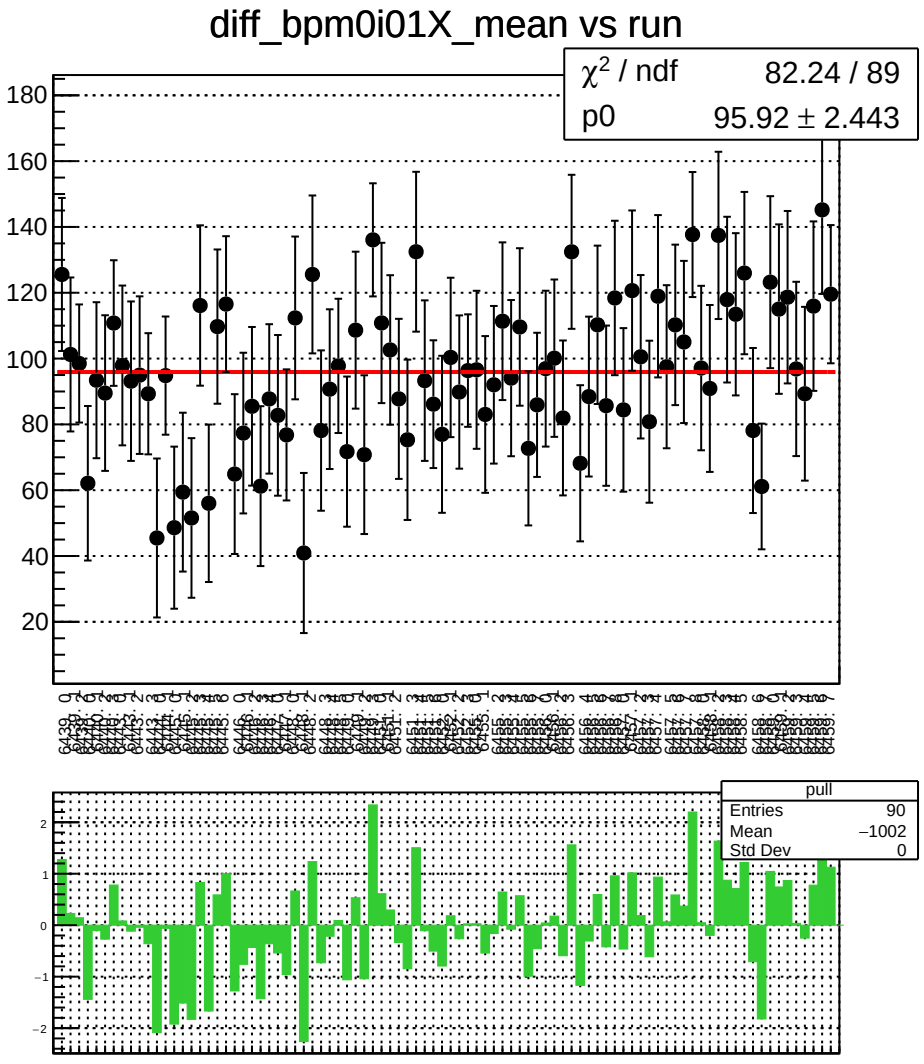

pull1D
Entries 90
Mean −0.003844
Std Dev 0.8764

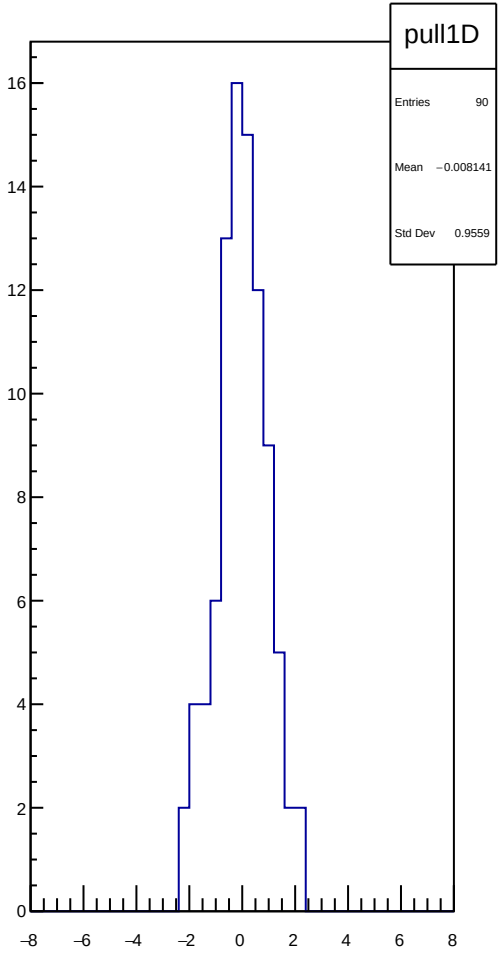

diff_cav4dX_rms vs run
×10^3
χ² / ndf 1.622e+04 / 89
p0 2.301e+05 ± 173.2
300
280
260
240
220
200
180

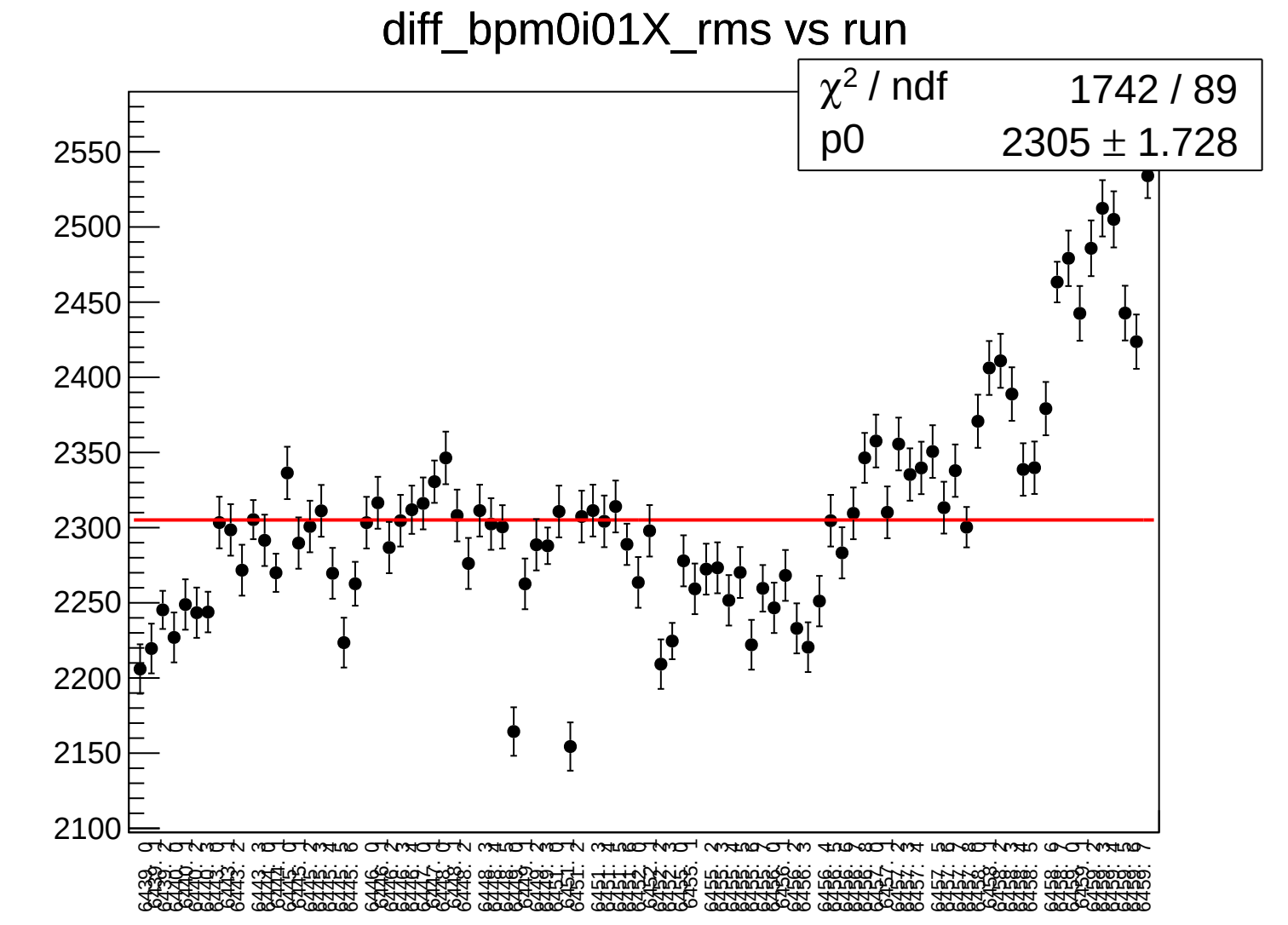

diff_cav4dY_mean vs run
χ^2 / ndf 95.94 / 89
p0 79.25 ± 147.1
6000
4000
2000
0
−2000
−4000
pull
Entries 90
Mean −3212
Std Dev 0
2
1
0
−1
−2

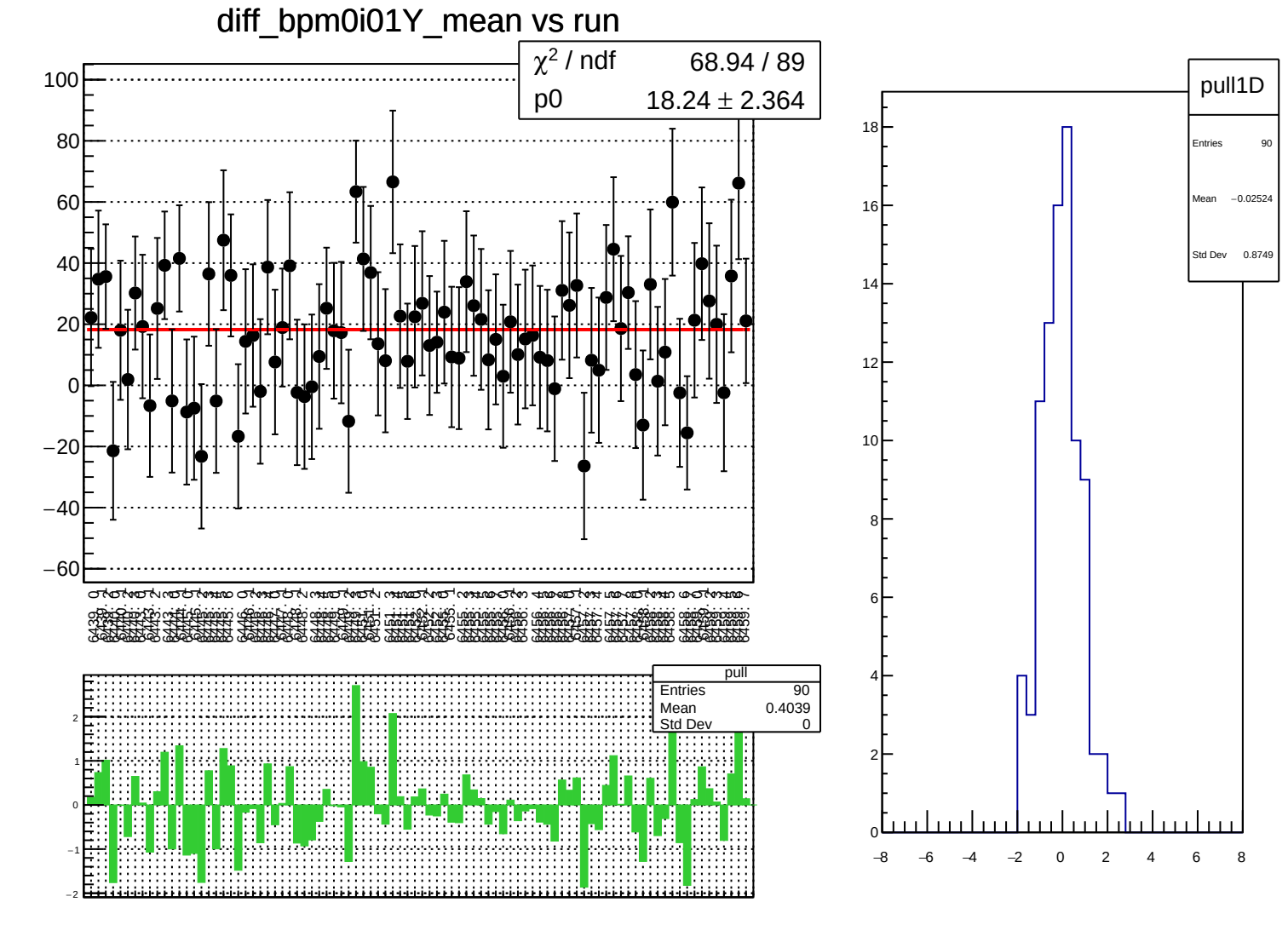

pull1D
Entries 90
Mean 0.00128
Std Dev 1.032
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

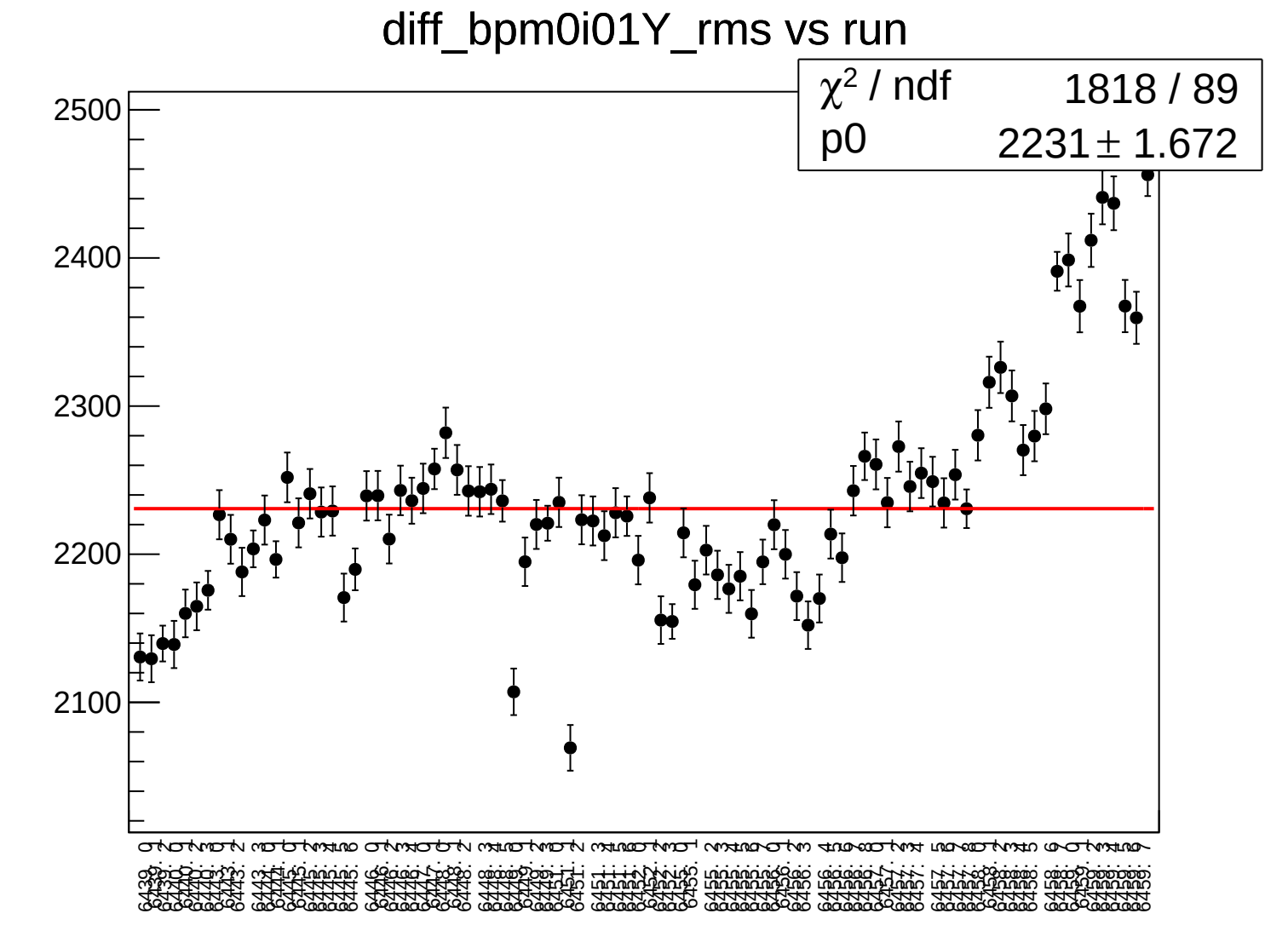

diff_cav4dY_rms vs run
×10^3
χ^2 / ndf 6983 / 89
p0 1.386e+05 ± 104
155
150
145
140
135
130
125
120
115

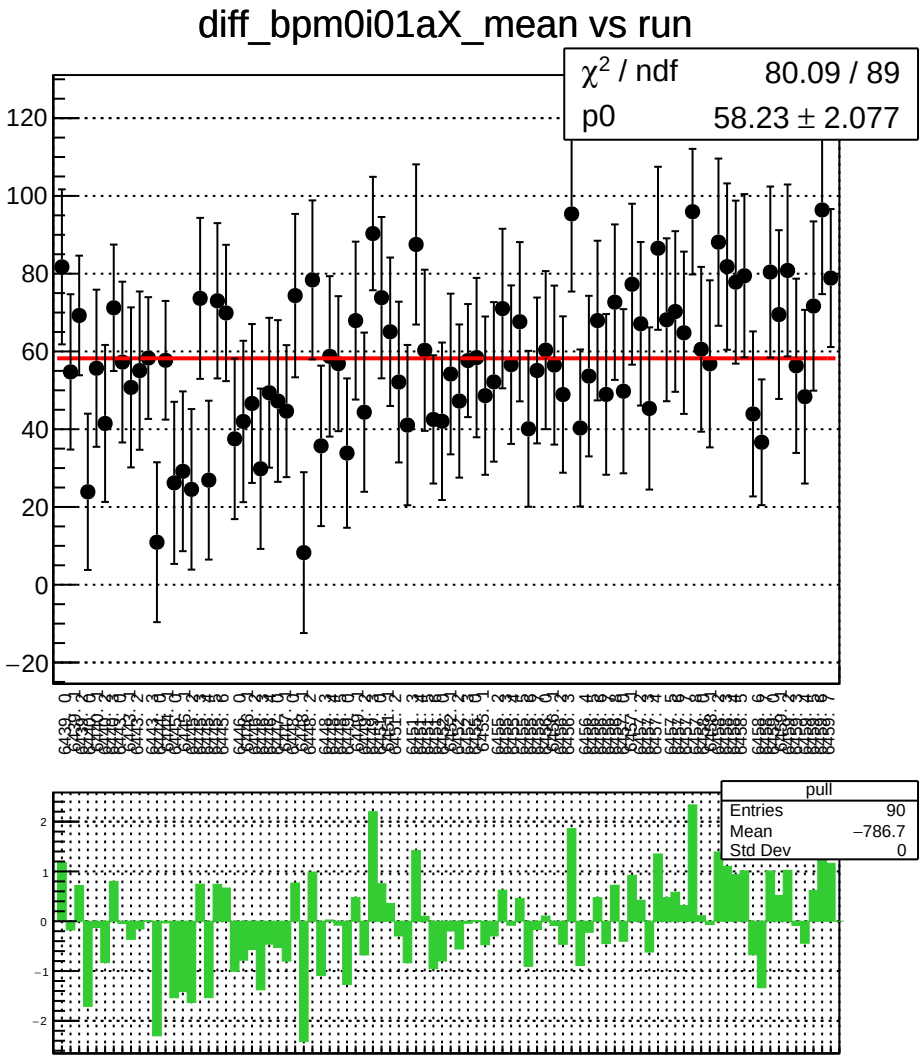

diff_bpm0i01X_mean vs run
χ^2 / ndf 82.24 / 89
p0 95.92 ± 2.443
pull
Entries 90
Mean −1002
Std Dev 0

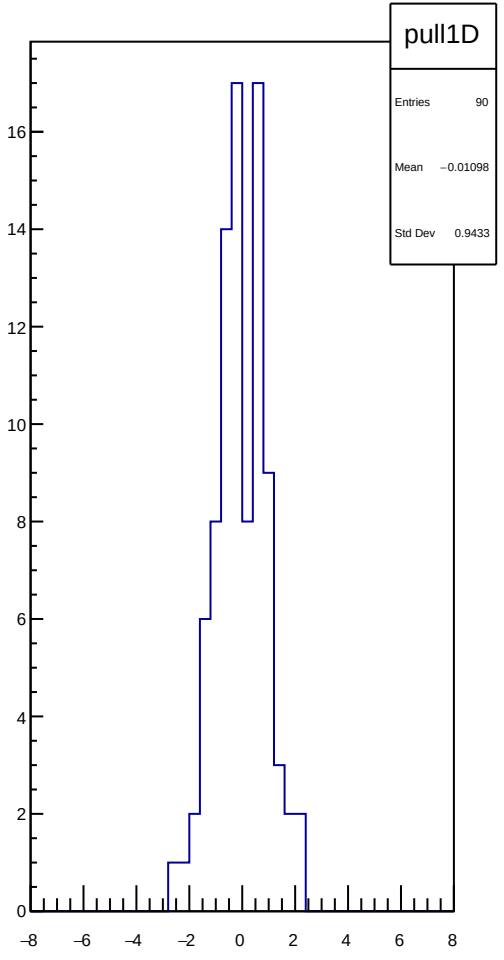

pull1D
Entries 90
Mean −0.008141
Std Dev 0.9559

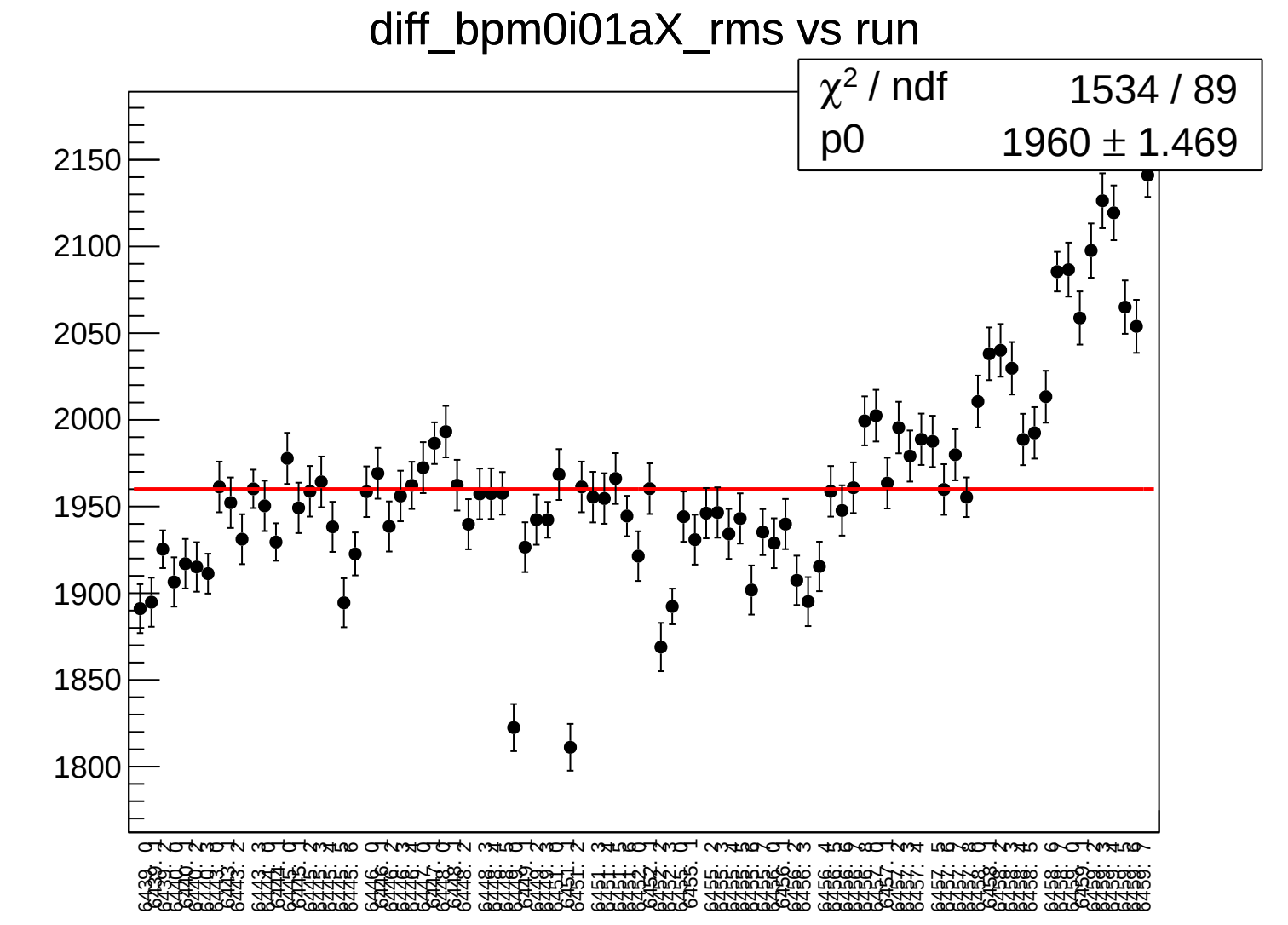

diff_bpm0i01X_rms vs run
χ² / ndf 1742 / 89
p0 2305 ± 1.728
2550
2500
2450
2400
2350
2300
2250
2200
2150
2100

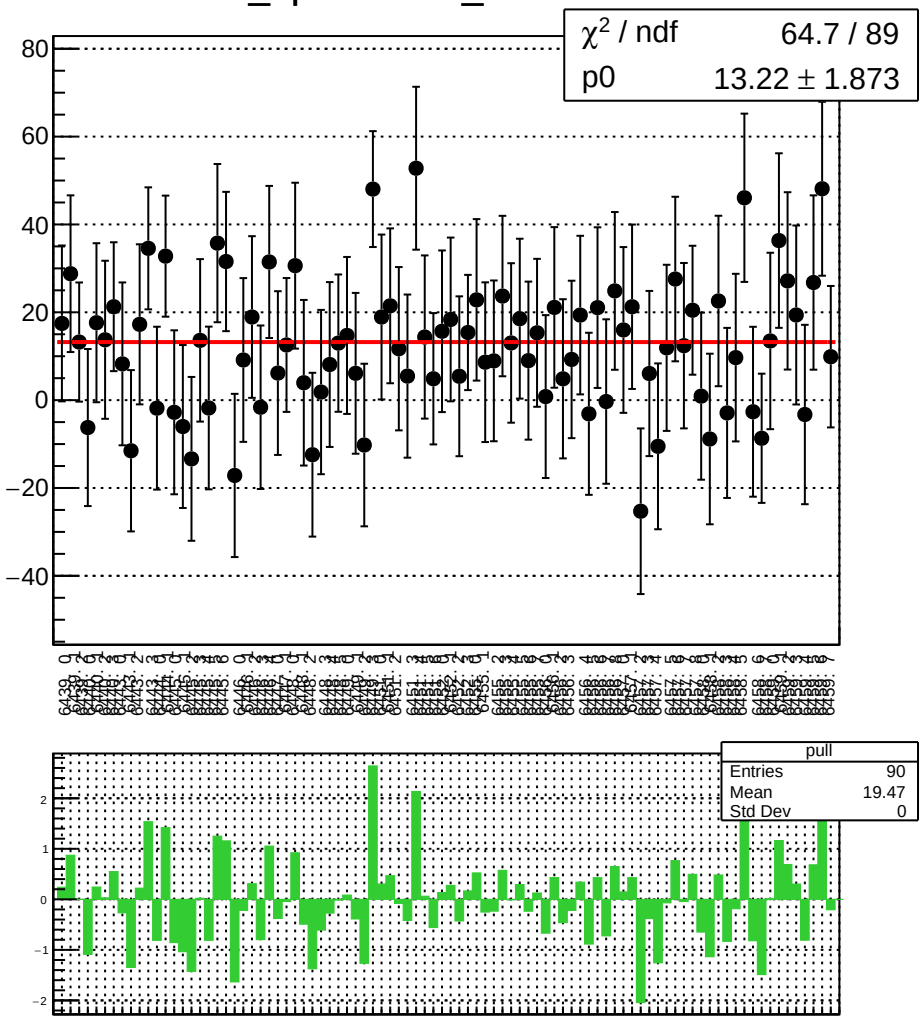

diff_bpm0i01Y_mean vs run
χ² / ndf 68.94 / 89
p0 18.24 ± 2.364
pull
Entries 90
Mean 0.4039
Std Dev 0
pull1D
Entries 90
Mean −0.02524
Std Dev 0.8749

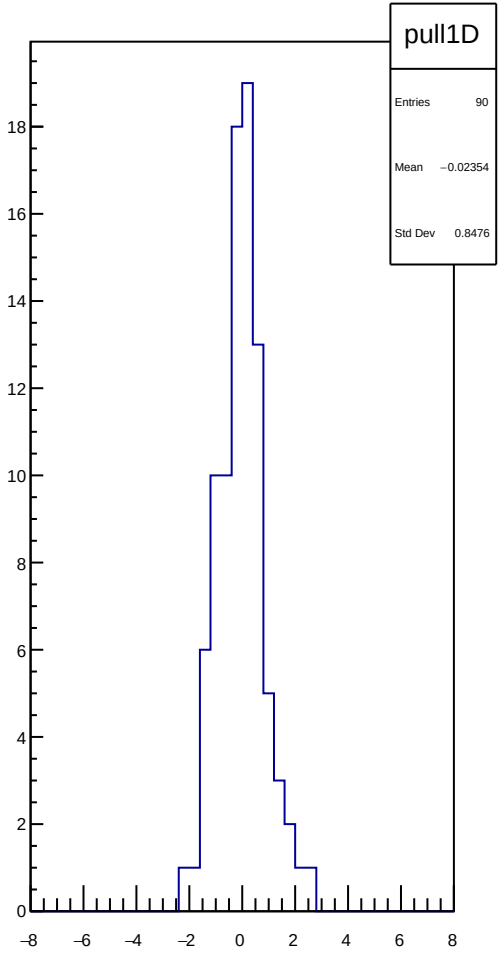

diff_bpm0i01Y_rms vs run
χ² / ndf 1818 / 89
p0 2231 ± 1.672
2500
2400
2300
2200
2100

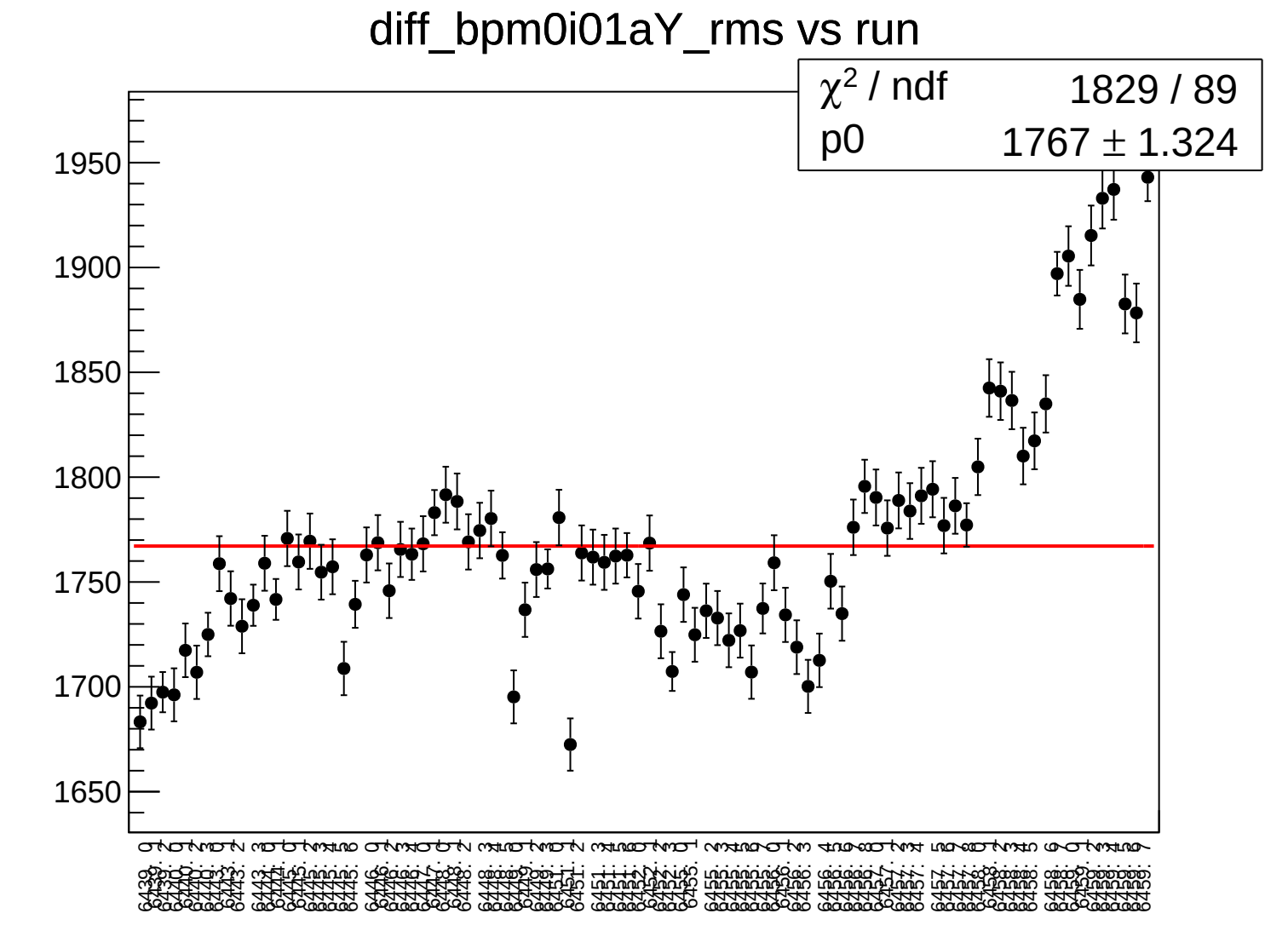

diff_bpm0i01aX_mean vs run
χ² / ndf 80.09 / 89
p0 58.23 ± 2.077
pull
Entries 90
Mean −786.7
Std Dev 0

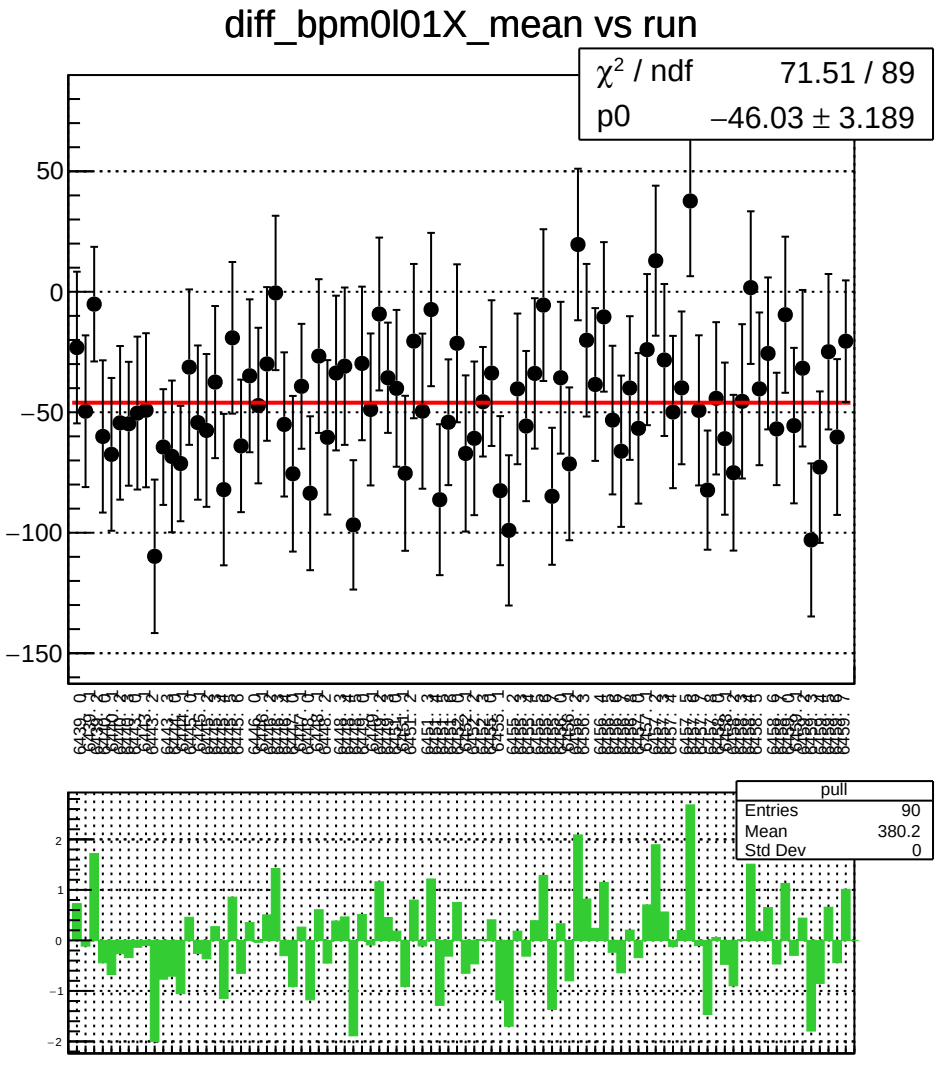

pull1D
Entries 90
Mean −0.01098
Std Dev 0.9433

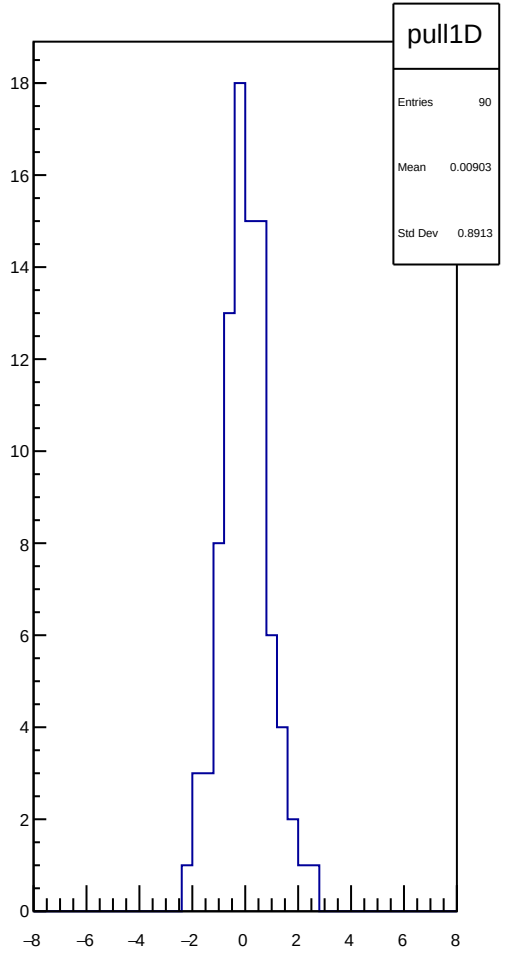

diff_bpm0i01aX_rms vs run
χ² / ndf 1534 / 89
p0 1960 ± 1.469
2150
2100
2050
2000
1950
1900
1850
1800

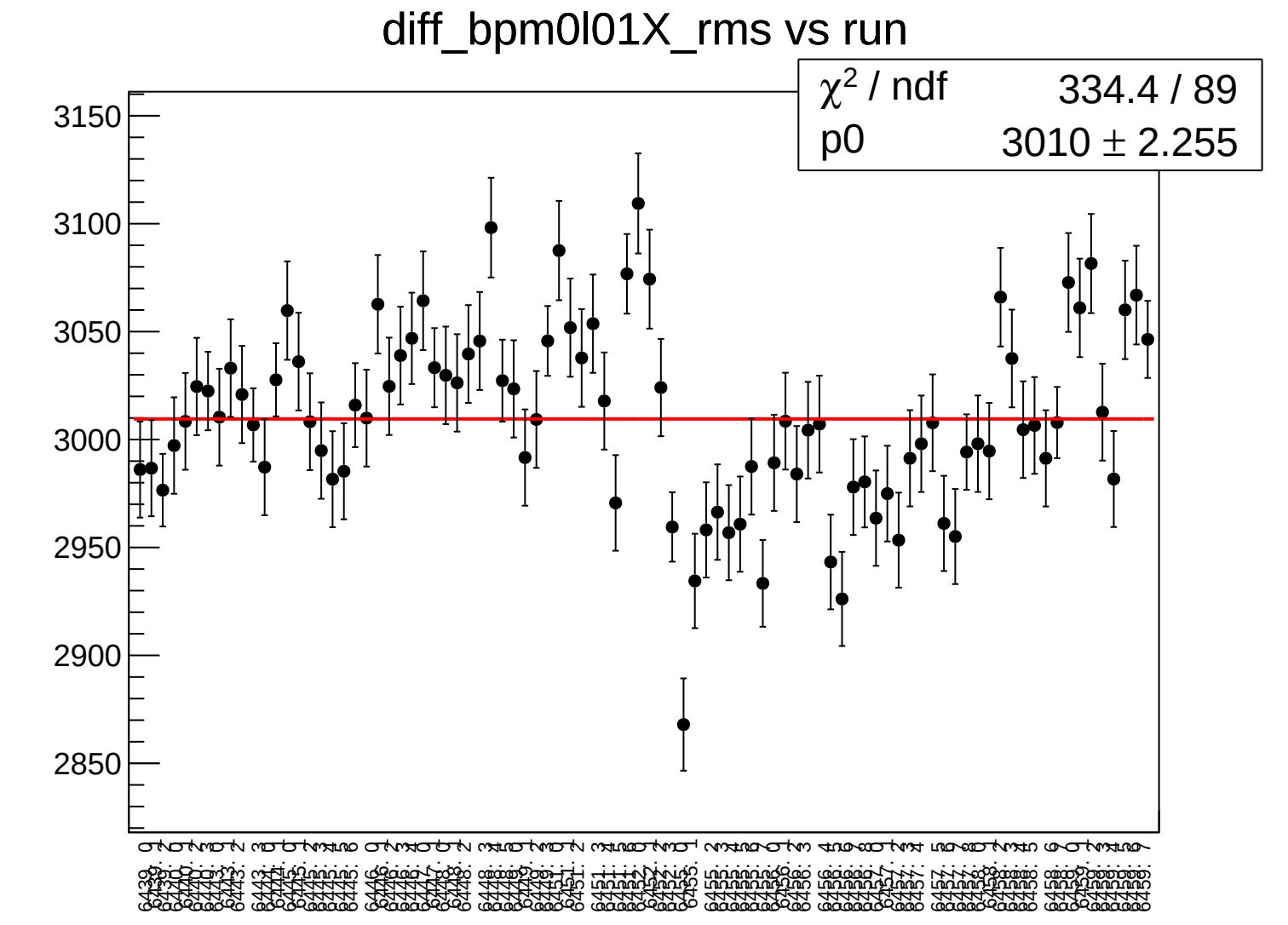

diff_bpm0i01aY_mean vs run
χ² / ndf 64.7 / 89
p0 13.22 ± 1.873
pull
Entries 90
Mean 19.47
Std Dev 0

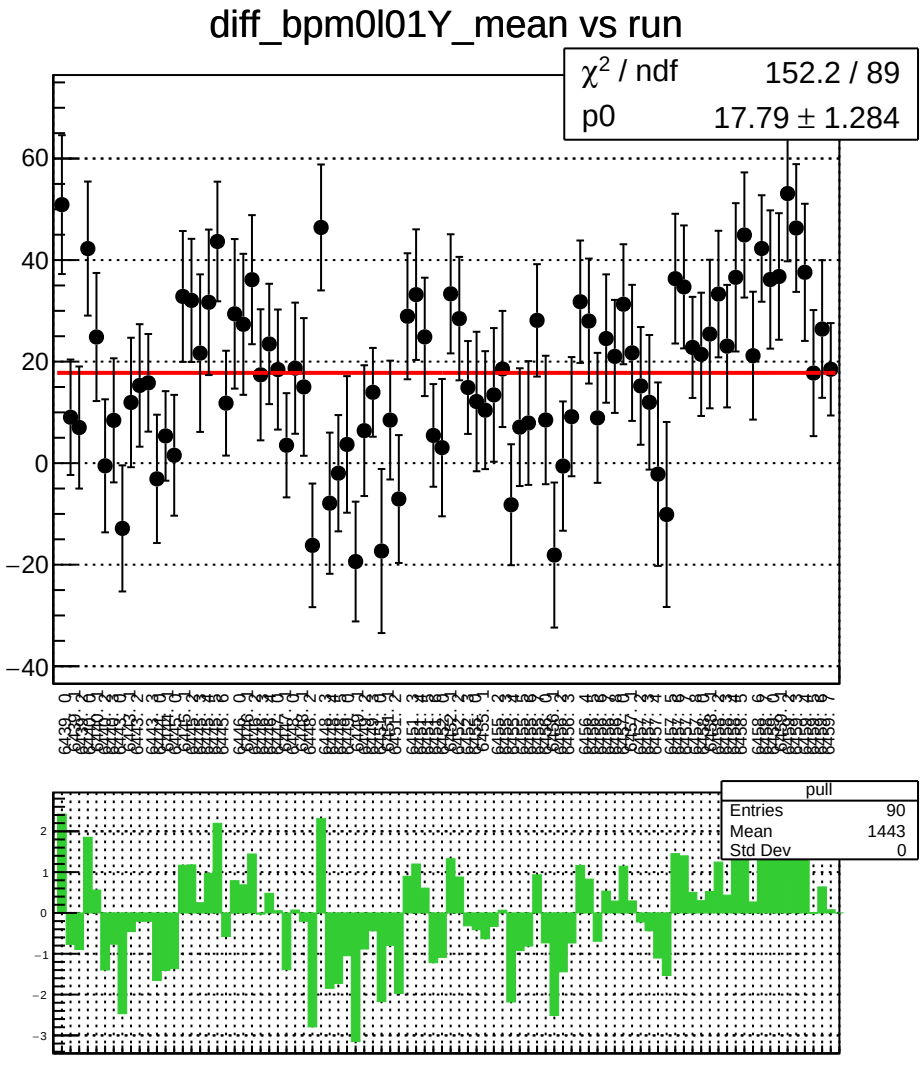

pull1D
Entries 90
Mean −0.02354
Std Dev 0.8476

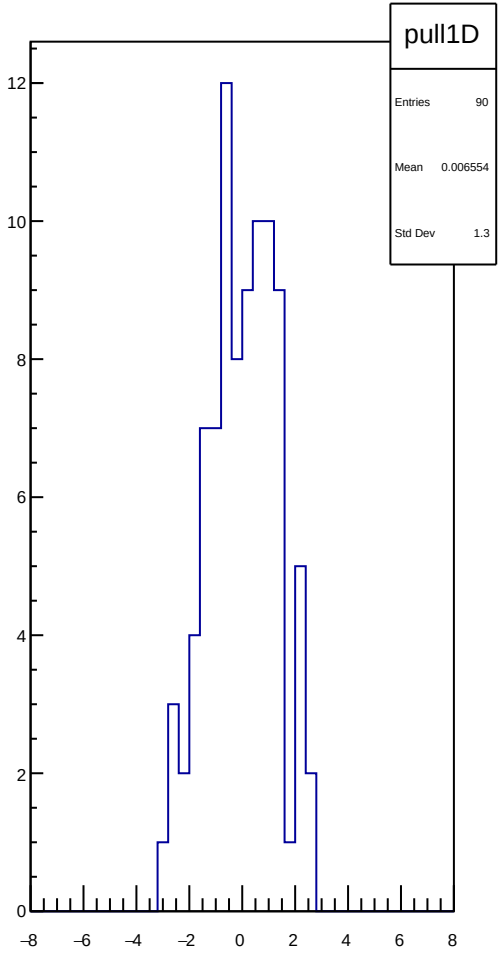

diff_bpm0i01aY_rms vs run
χ² / ndf 1829 / 89
p0 1767 ± 1.324
1950
1900
1850
1800
1750
1700
1650

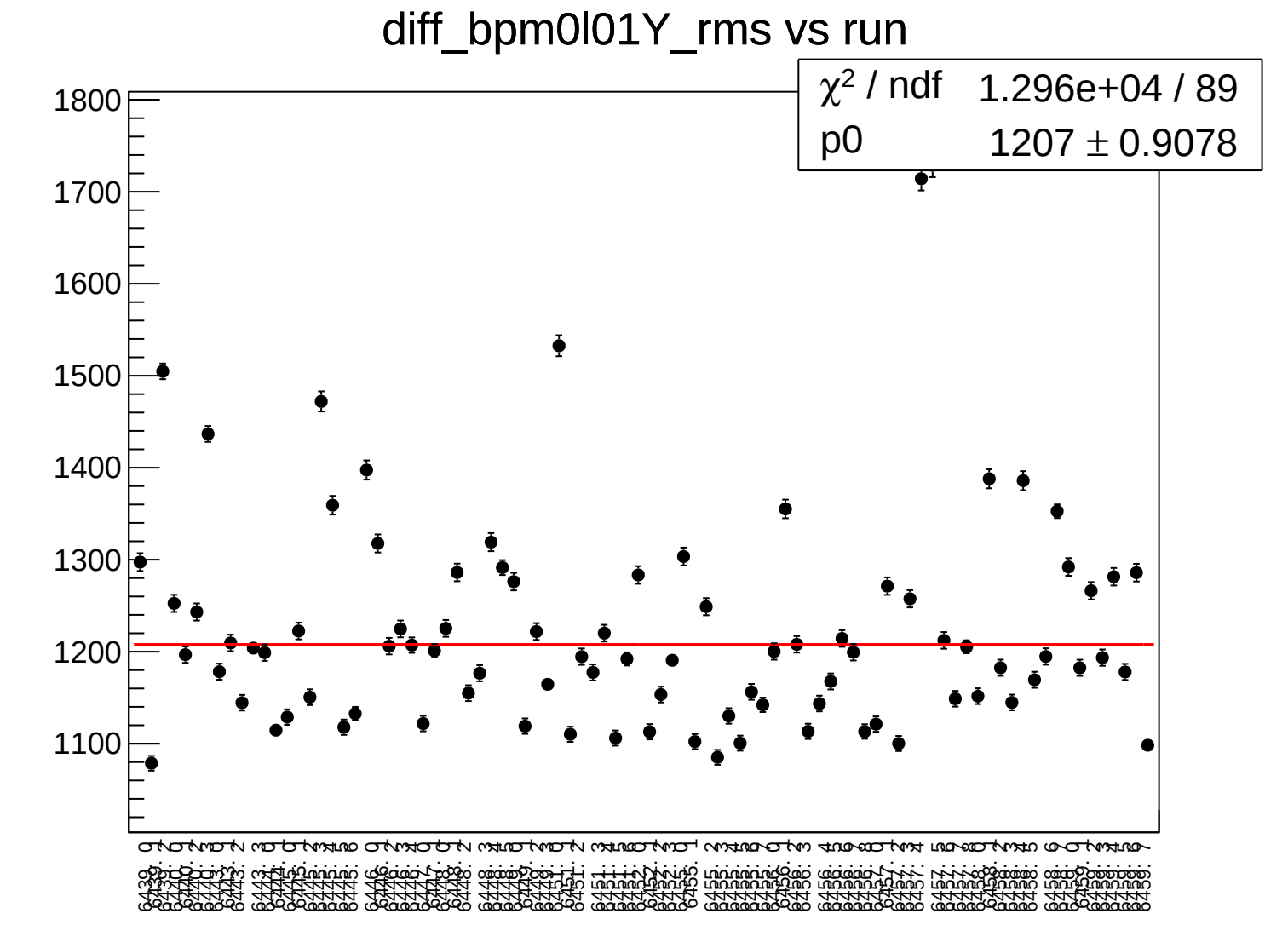

diff_bpm0l01X_mean vs run
χ² / ndf 71.51 / 89
p0 −46.03 ± 3.189
50
0
−50
−100
−150
pull
Entries 90
Mean 380.2
Std Dev 0
2
1
0
−1
−2

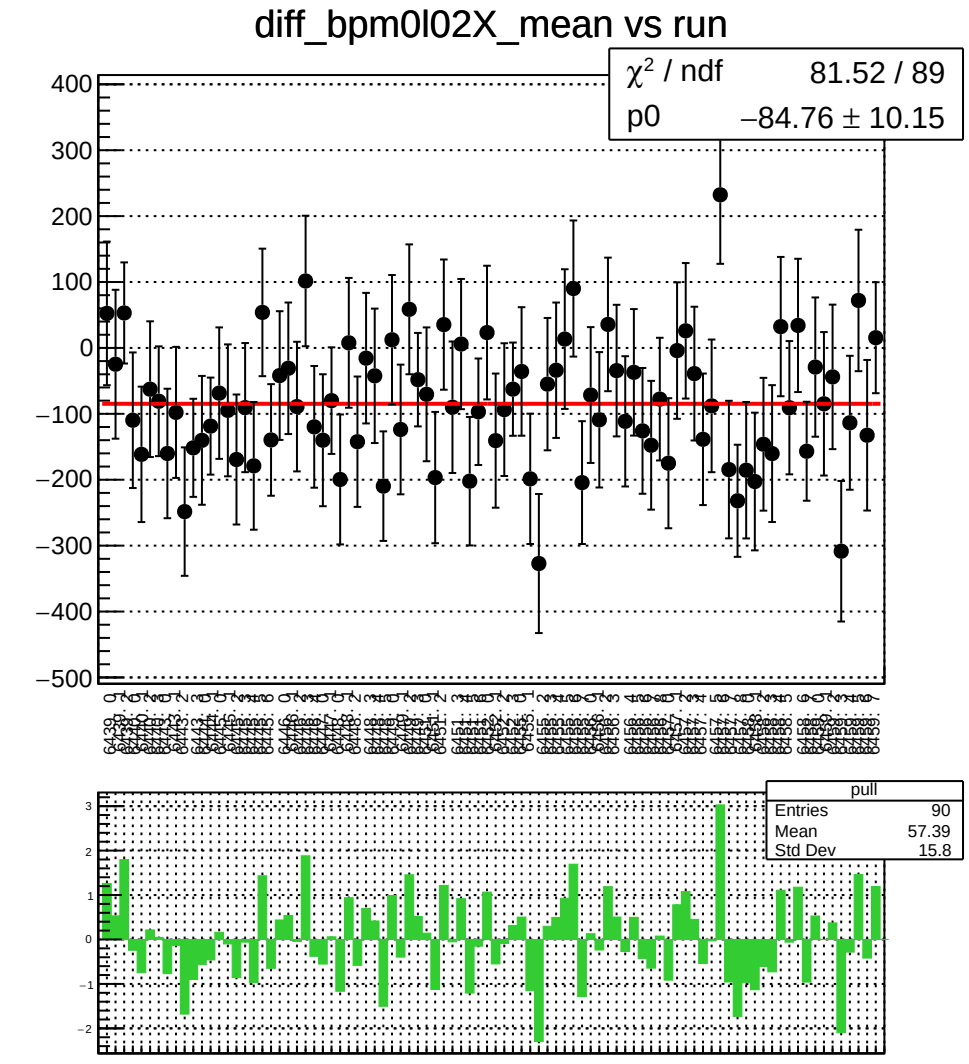

pull1D
Entries 90
Mean 0.00903
Std Dev 0.8913
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

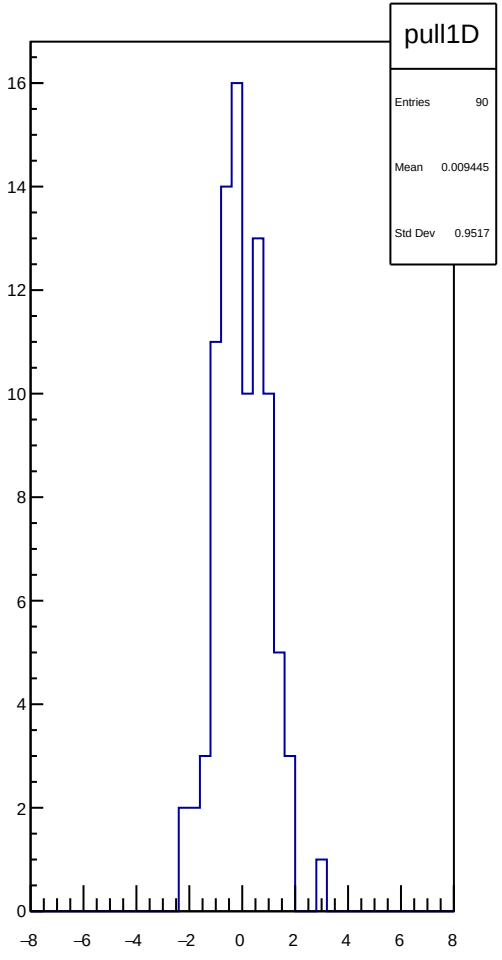

diff_bpm0l01X_rms vs run
χ² / ndf 334.4 / 89
p0 3010 ± 2.255
3150
3100
3050
3000
2950
2900
2850

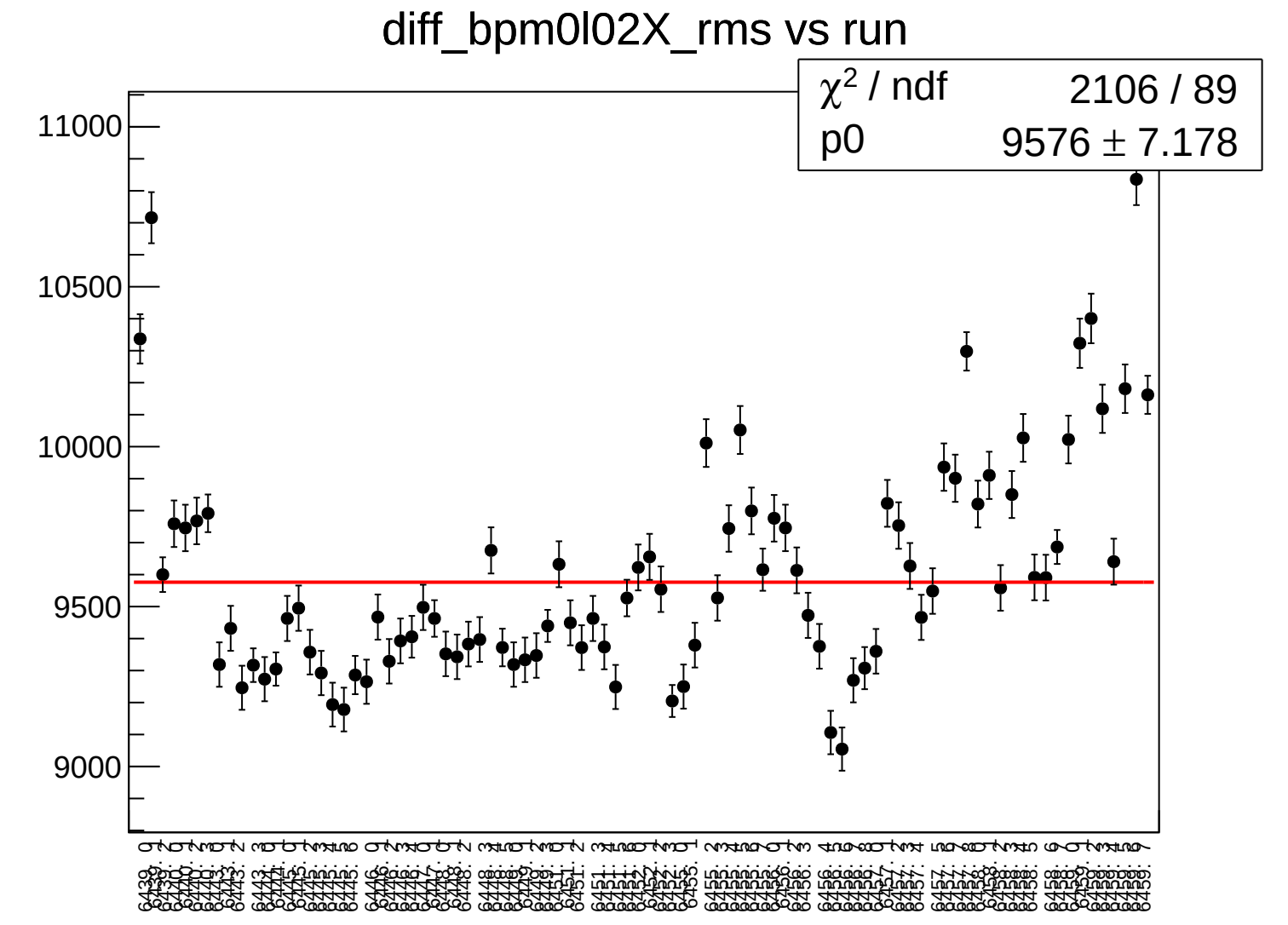

diff_bpm0l01Y_mean vs run
χ² / ndf 152.2 / 89
p0 17.79 ± 1.284
pull
Entries 90
Mean 1443
Std Dev 0

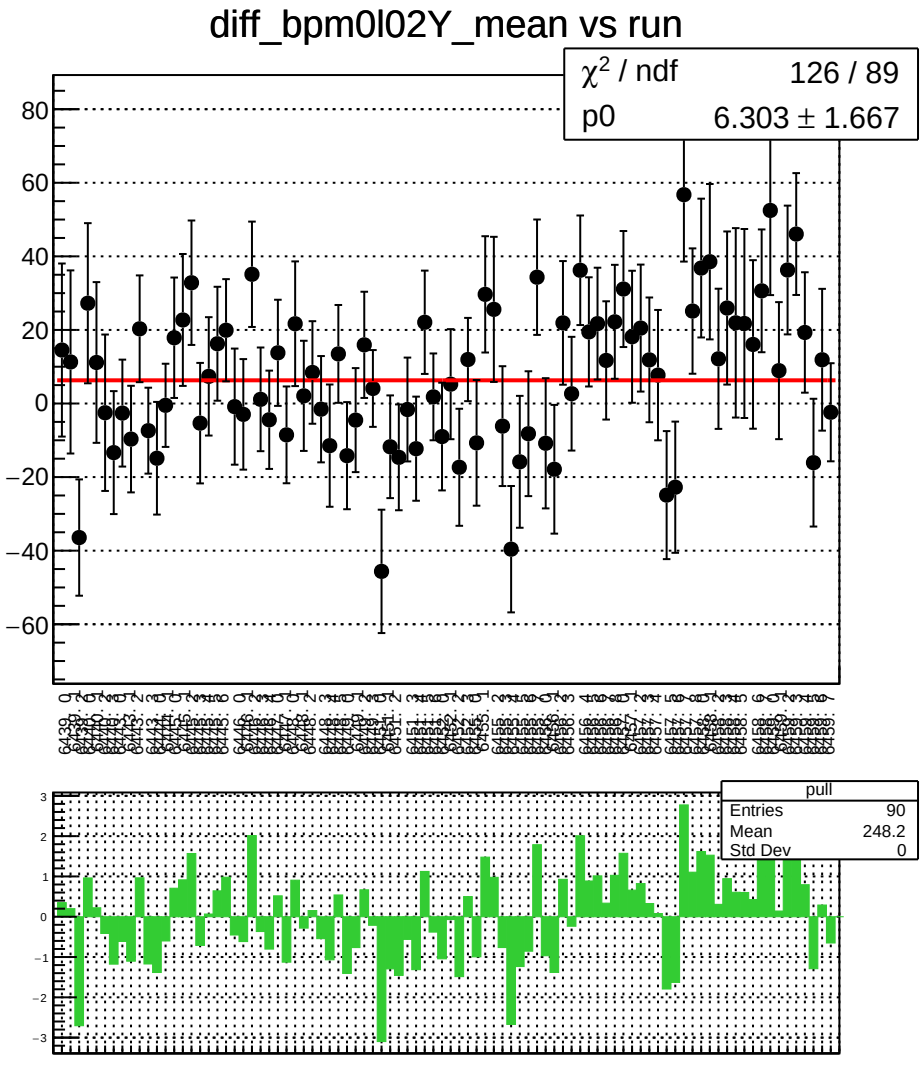

pull1D
Entries 90
Mean 0.006554
Std Dev 1.3

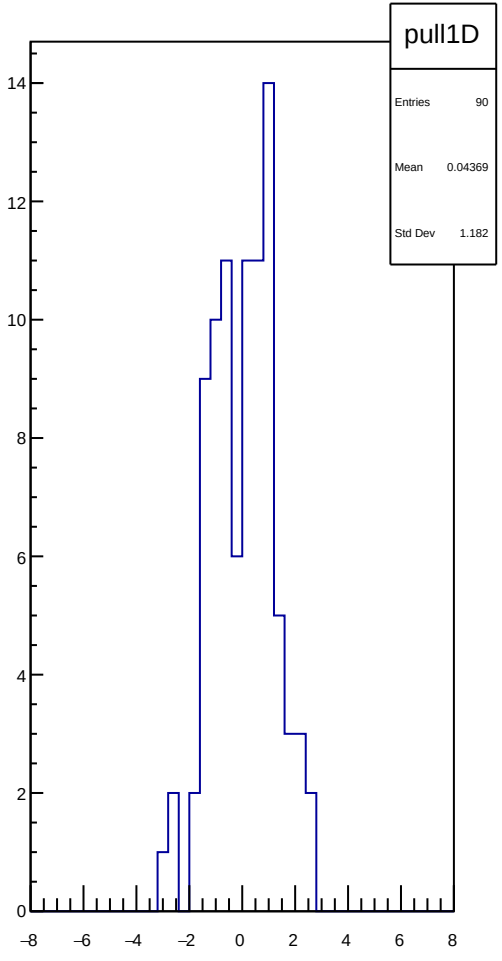

diff_bpm0l01Y_rms vs run
χ² / ndf 1.296e+04 / 89
p0 1207 ± 0.9078
1800
1700
1600
1500
1400
1300
1200
1100

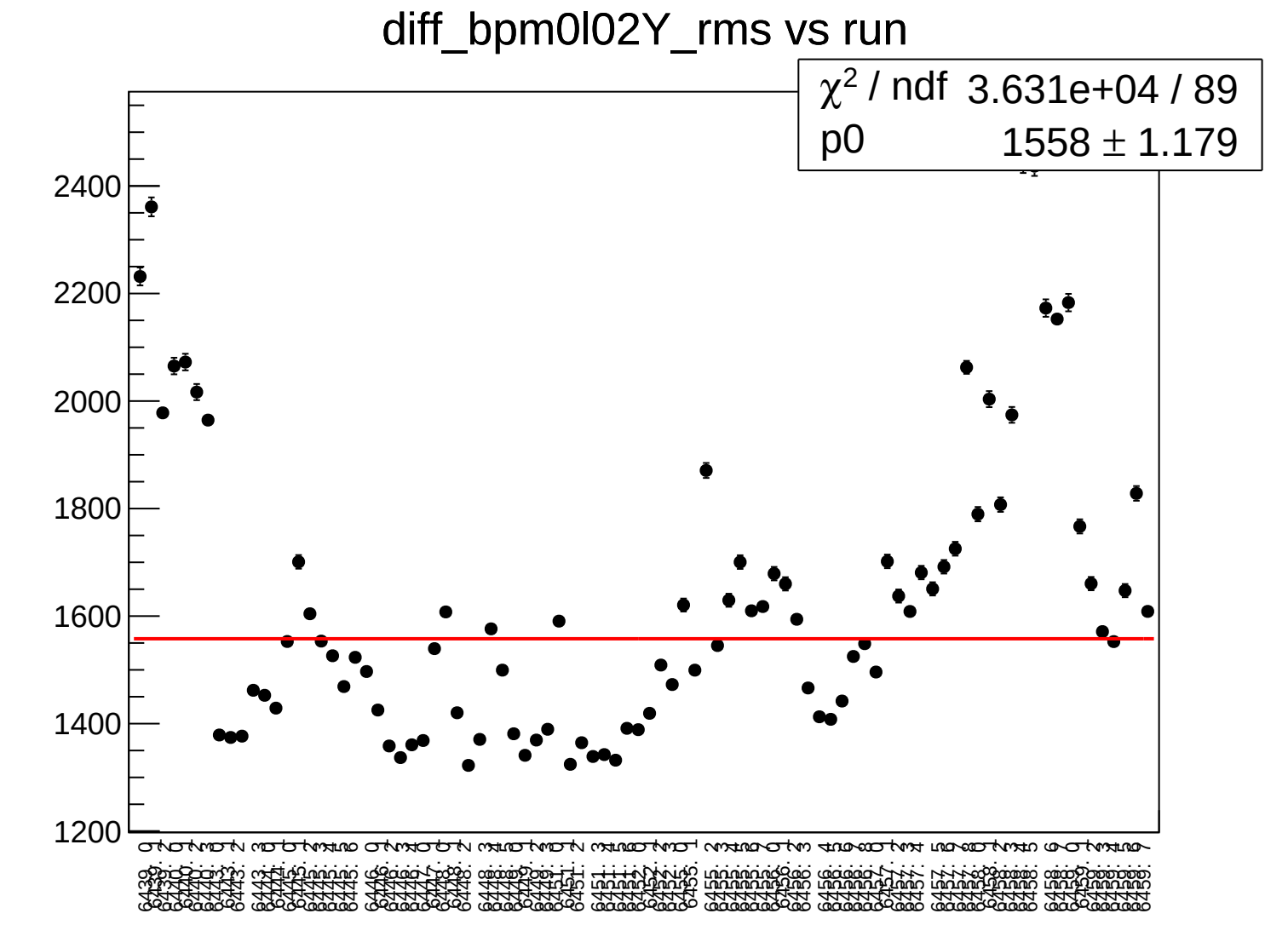

diff_bpm0l02X_mean vs run
χ² / ndf 81.52 / 89
p0 −84.76 ± 10.15
pull
Entries 90
Mean 57.39
Std Dev 15.8

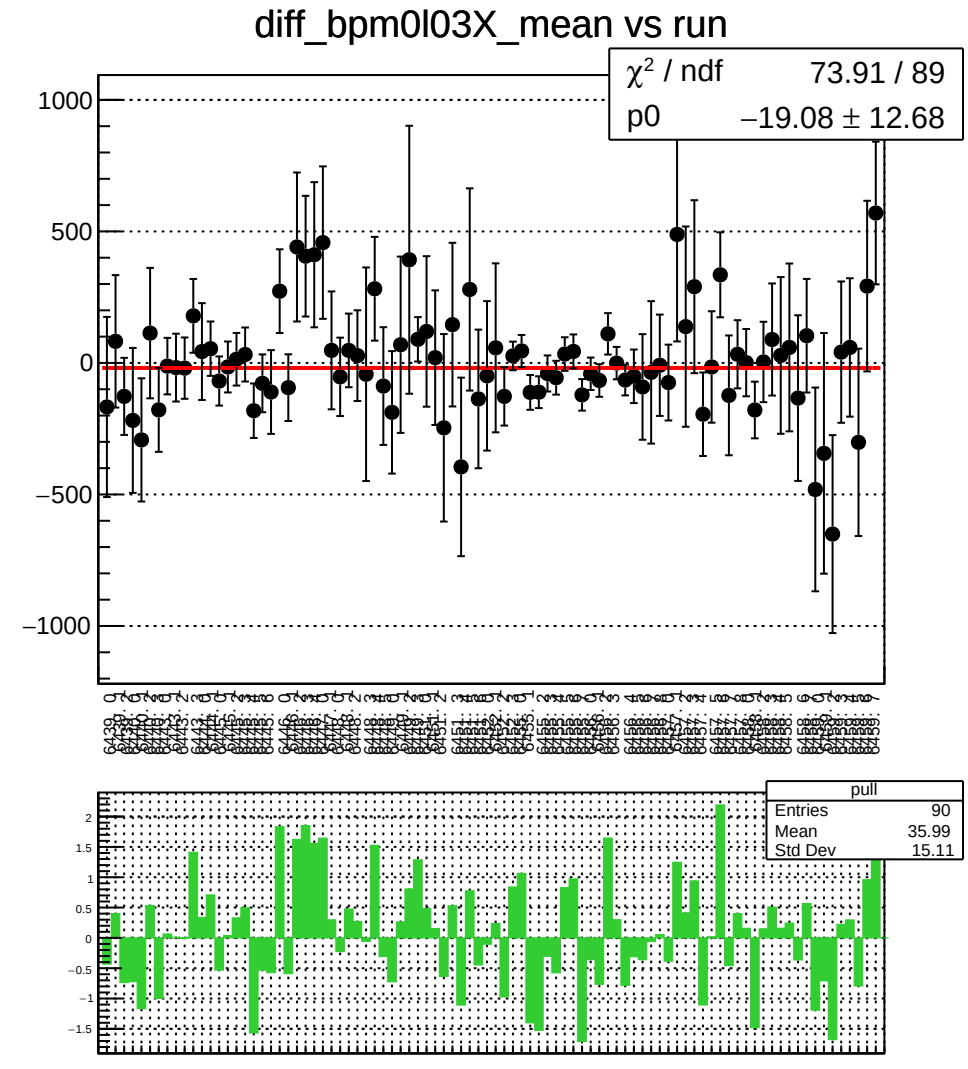

pull1D
Entries 90
Mean 0.009445
Std Dev 0.9517

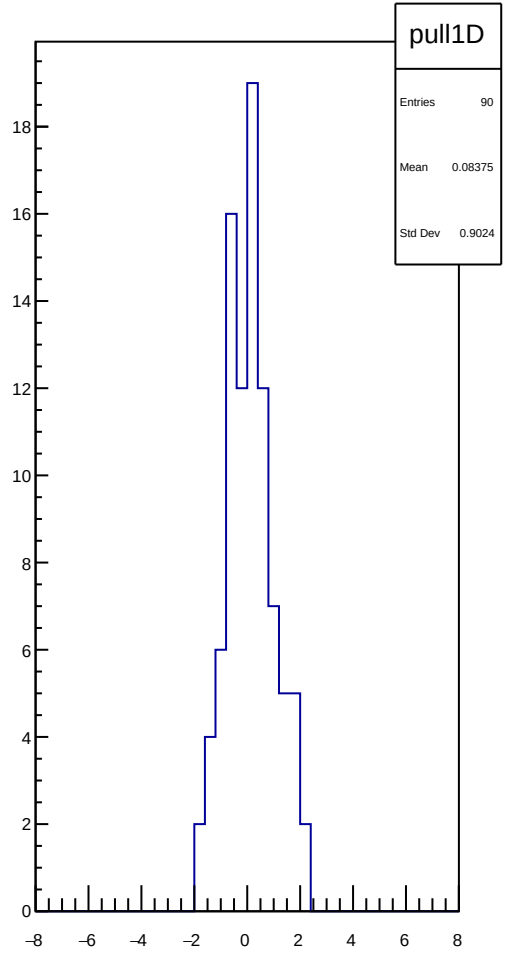

diff_bpm0l02X_rms vs run
χ^2 / ndf 2106 / 89
p0 9576 ± 7.178
11000
10500
10000
9500
9000

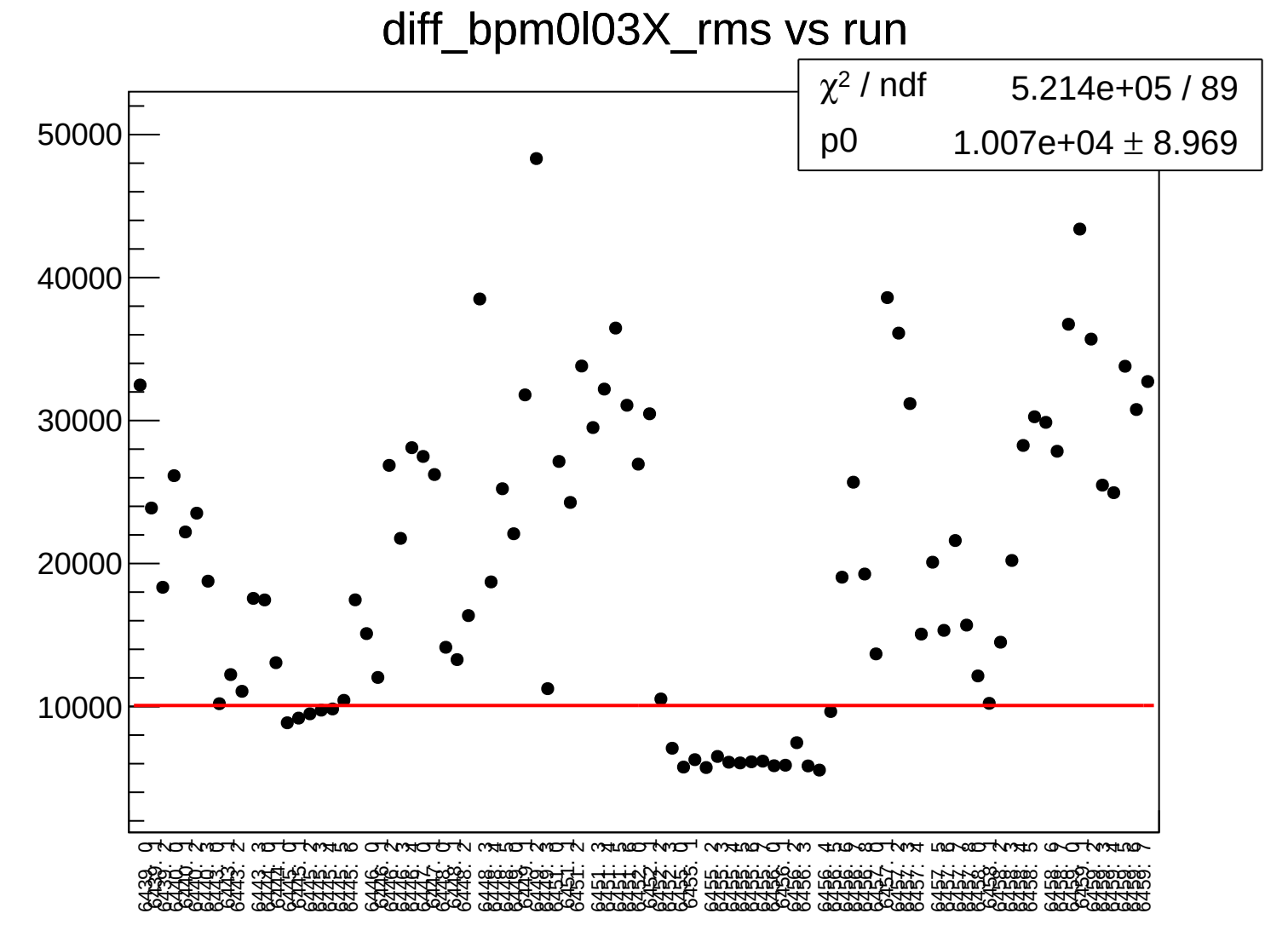

diff_bpm0l02Y_mean vs run
χ² / ndf 126 / 89
p0 6.303 ± 1.667
pull
Entries 90
Mean 248.2
Std Dev 0

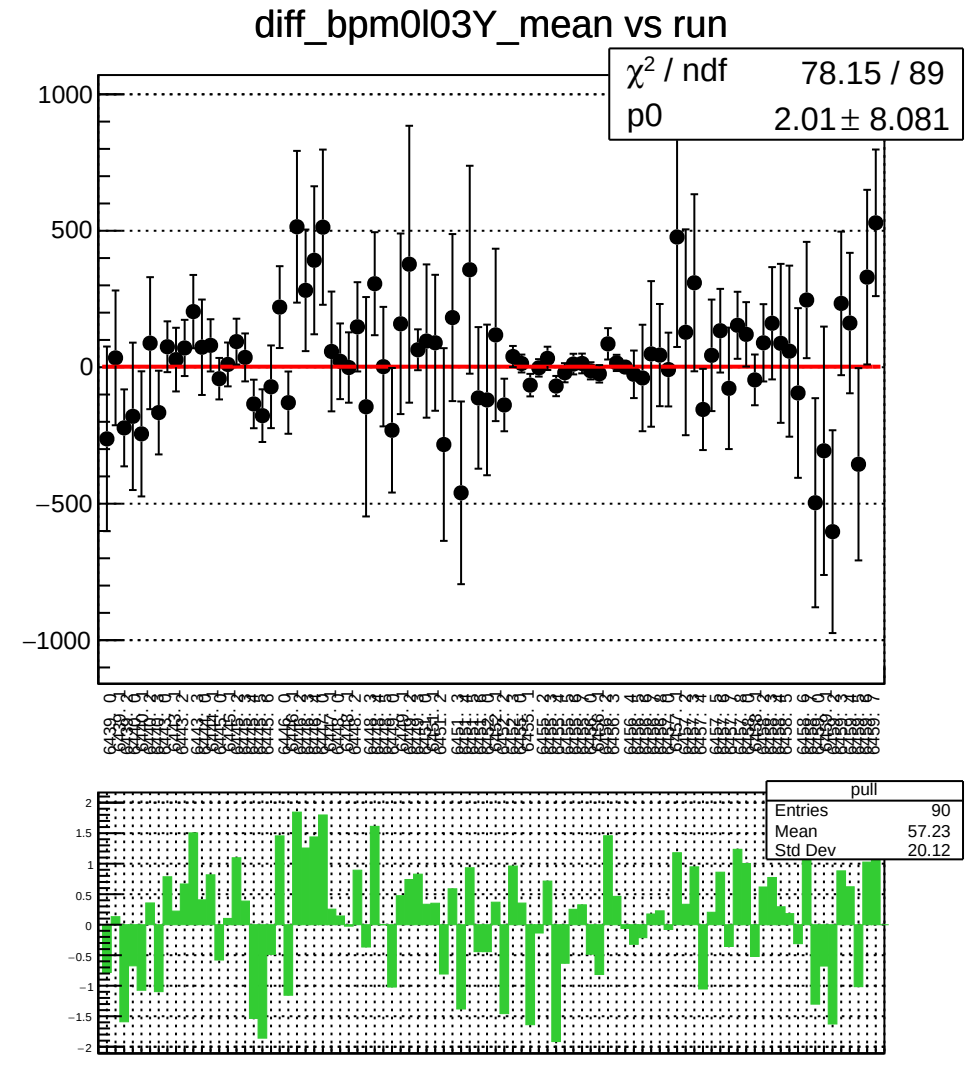

pull1D
Entries 90
Mean 0.04369
Std Dev 1.182

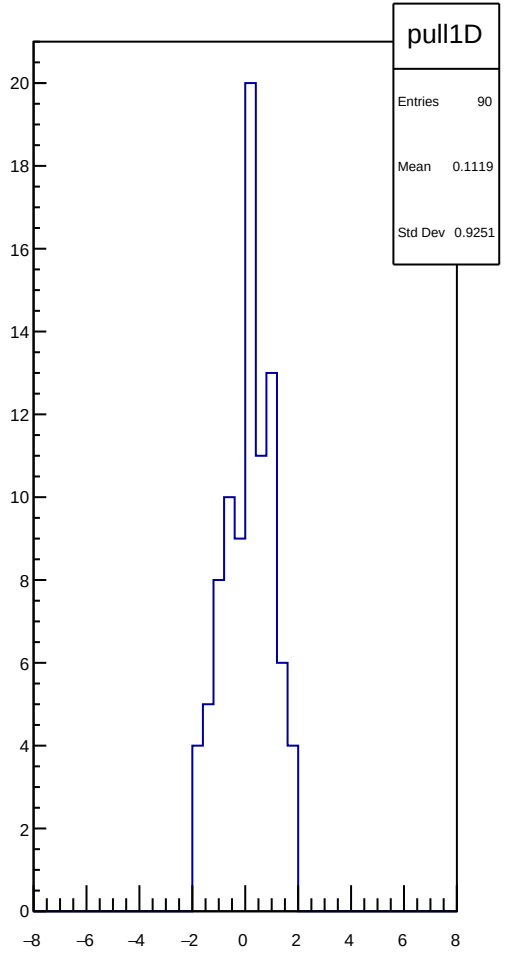

diff_bpm0l02Y_rms vs run
χ² / ndf 3.631e+04 / 89
p0 1558 ± 1.179
2400
2200
2000
1800
1600
1400
1200

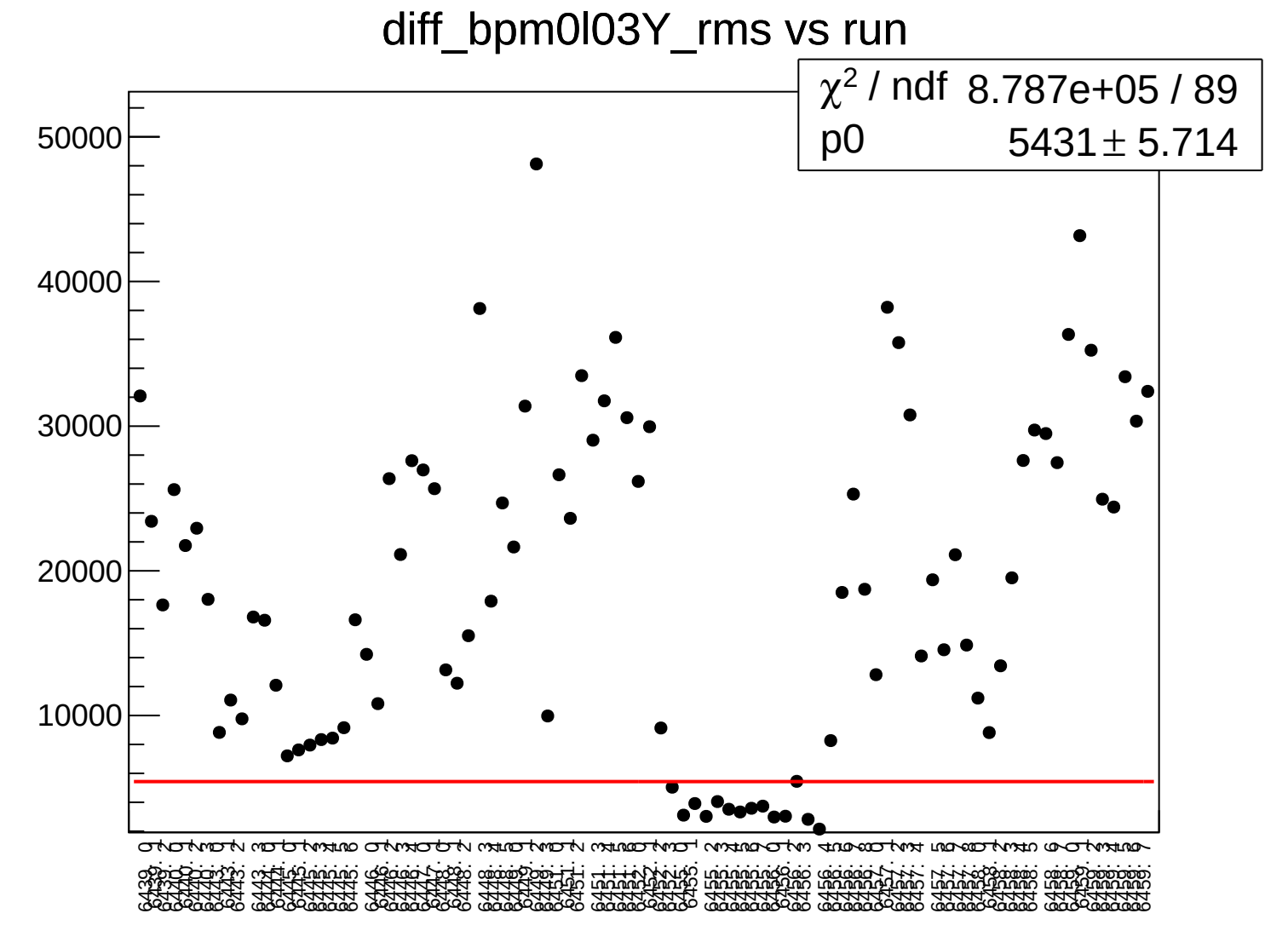

diff_bpm0l03X_mean vs run
χ² / ndf 73.91 / 89
p0 −19.08 ± 12.68
1000
500
0
−500
−1000
pull
Entries 90
Mean 35.99
Std Dev 15.11
2
1.5
1
0.5
0
−0.5
−1
−1.5

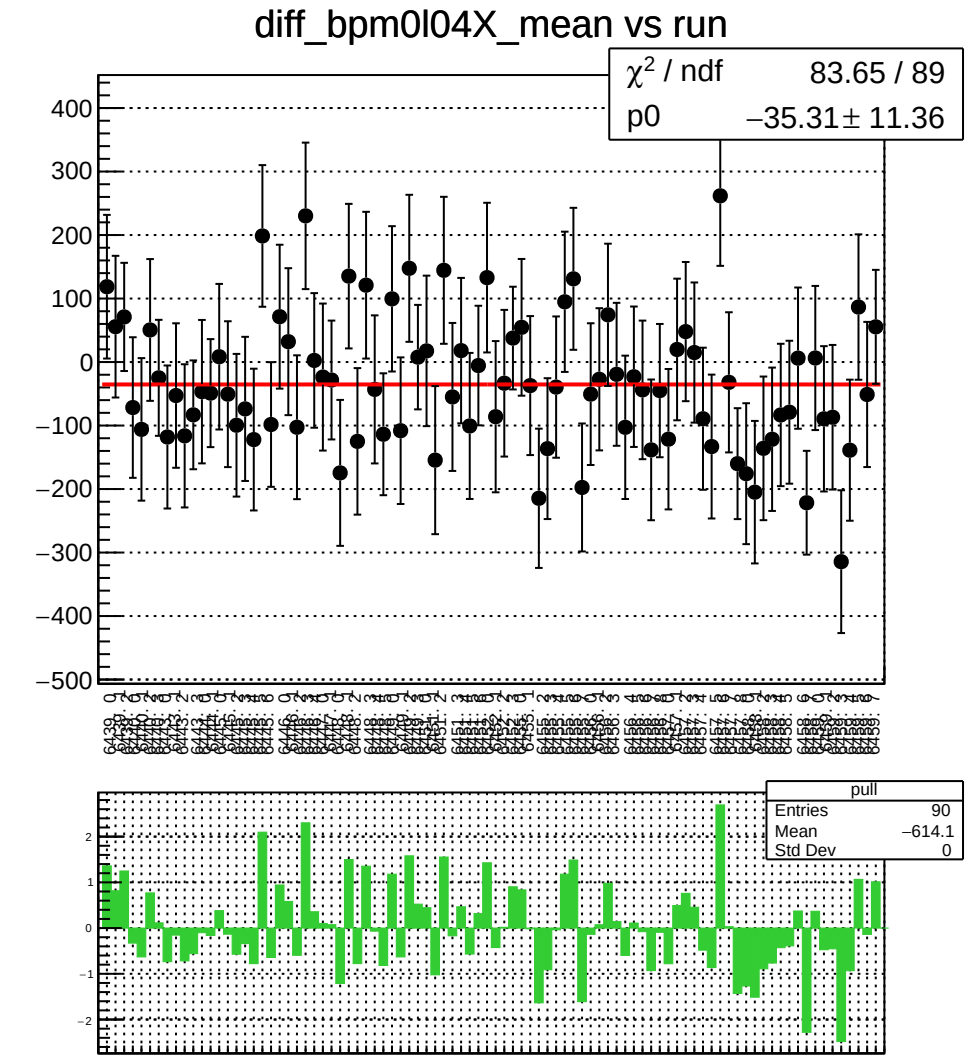

pull1D
Entries 90
Mean 0.08375
Std Dev 0.9024
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

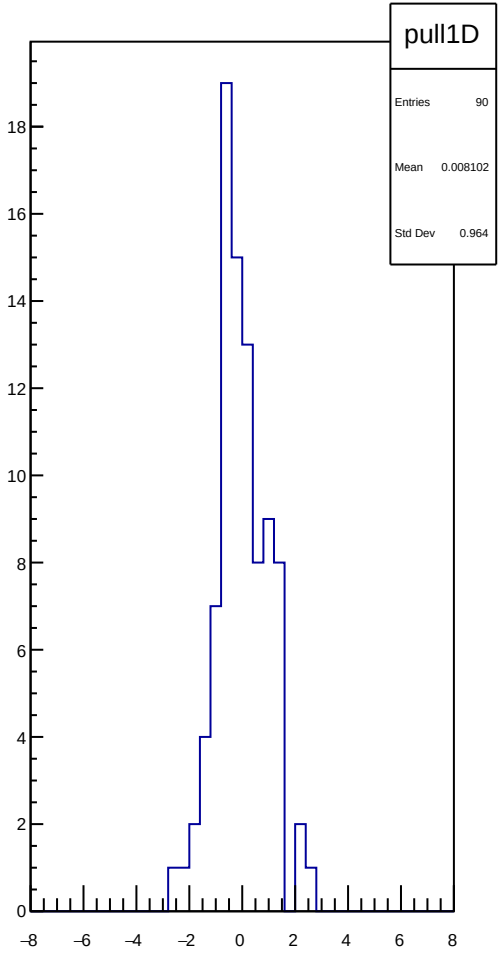

diff_bpm0l03X_rms vs run
χ² / ndf 5.214e+05 / 89
p0 1.007e+04 ± 8.969
50000
40000
30000
20000
10000

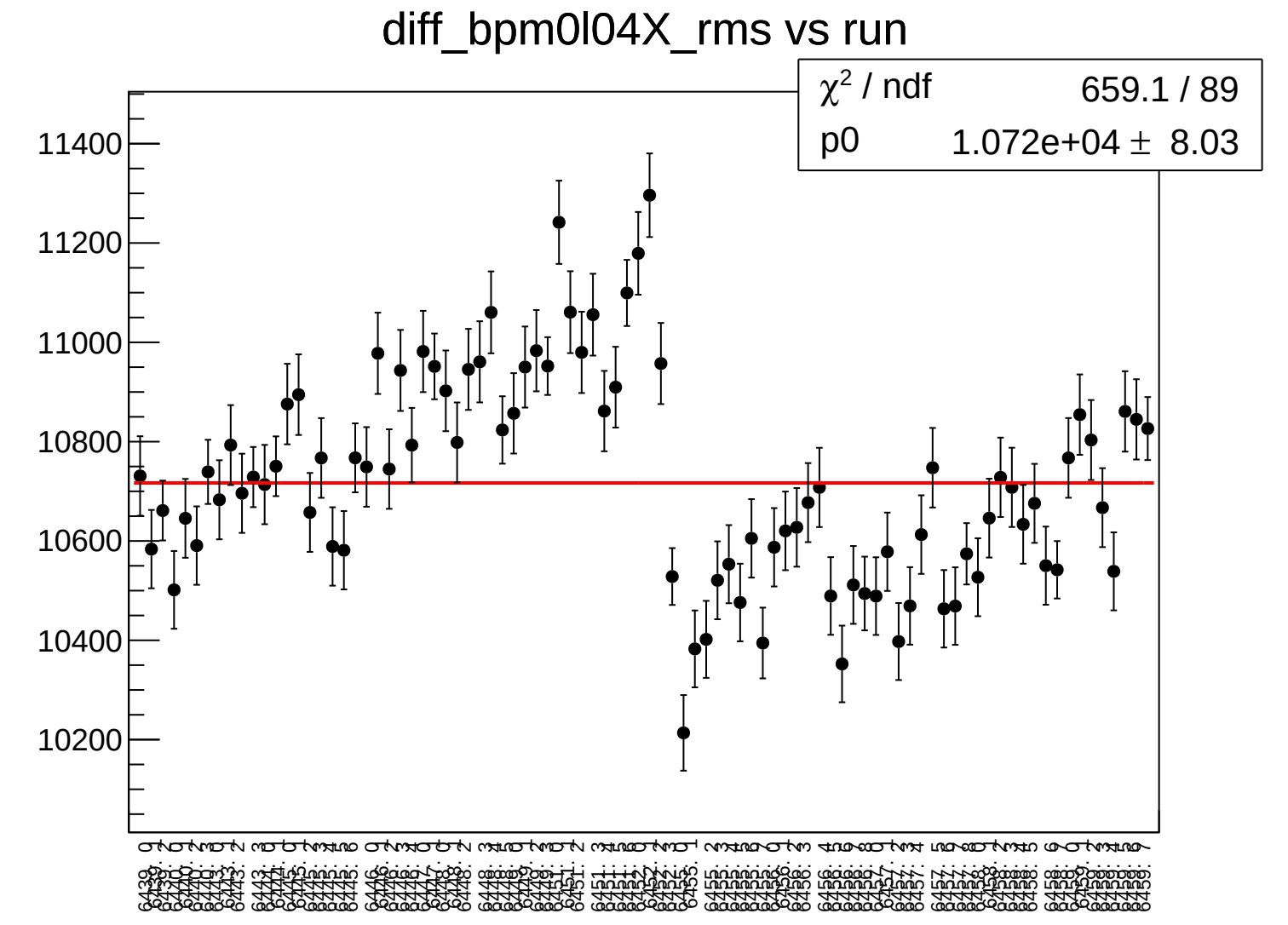

diff_bpm0l03Y_mean vs run
χ² / ndf 78.15 / 89
p0 2.01 ± 8.081
1000
500
0
−500
−1000
pull
Entries 90
Mean 57.23
Std Dev 20.12
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

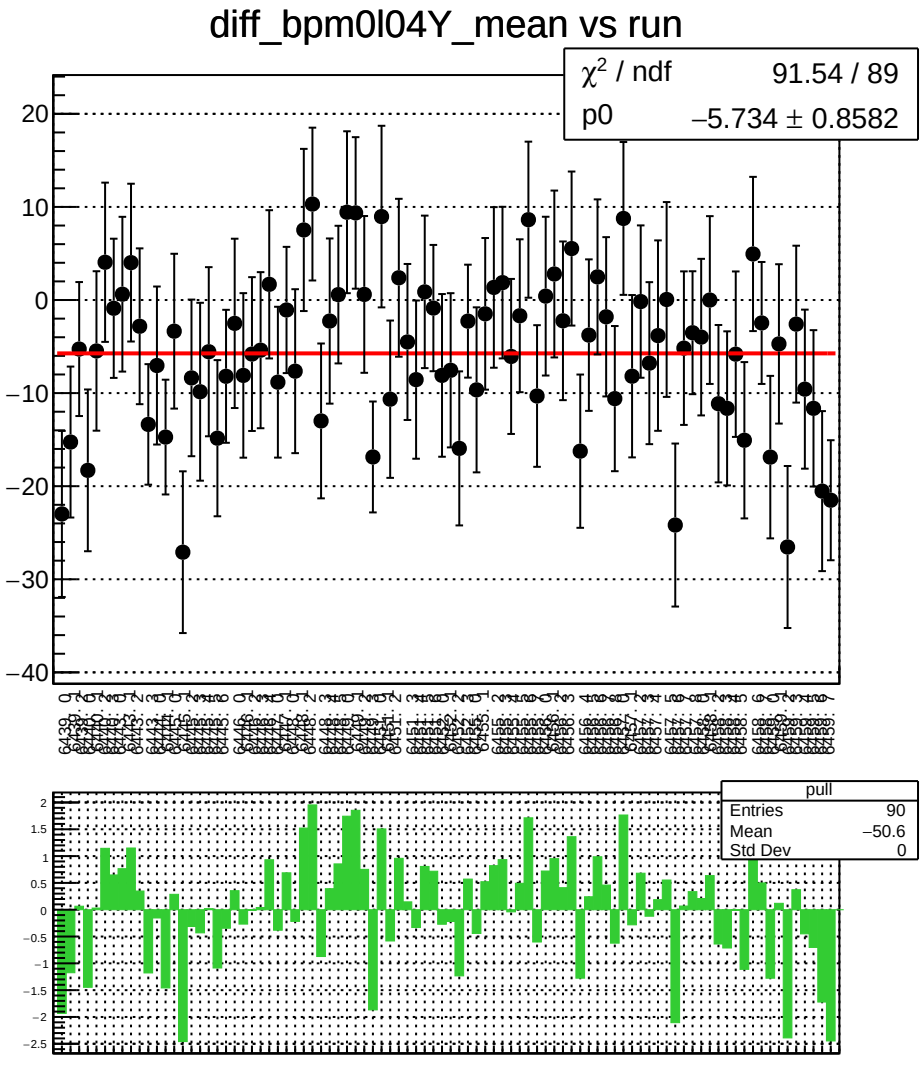

pull1D
Entries 90
Mean 0.1119
Std Dev 0.9251
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

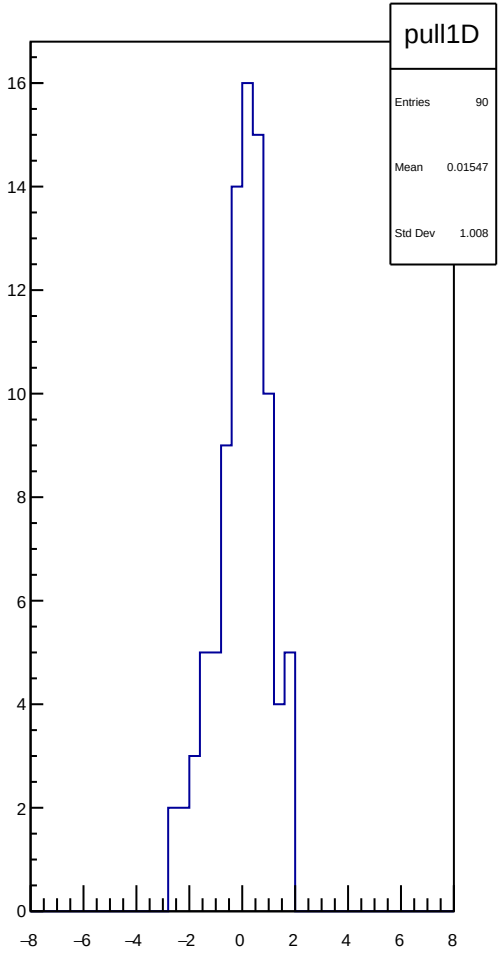

diff_bpm0l03Y_rms vs run
χ^2 / ndf 8.787e+05 / 89
p0 5431 ± 5.714
50000
40000
30000
20000
10000

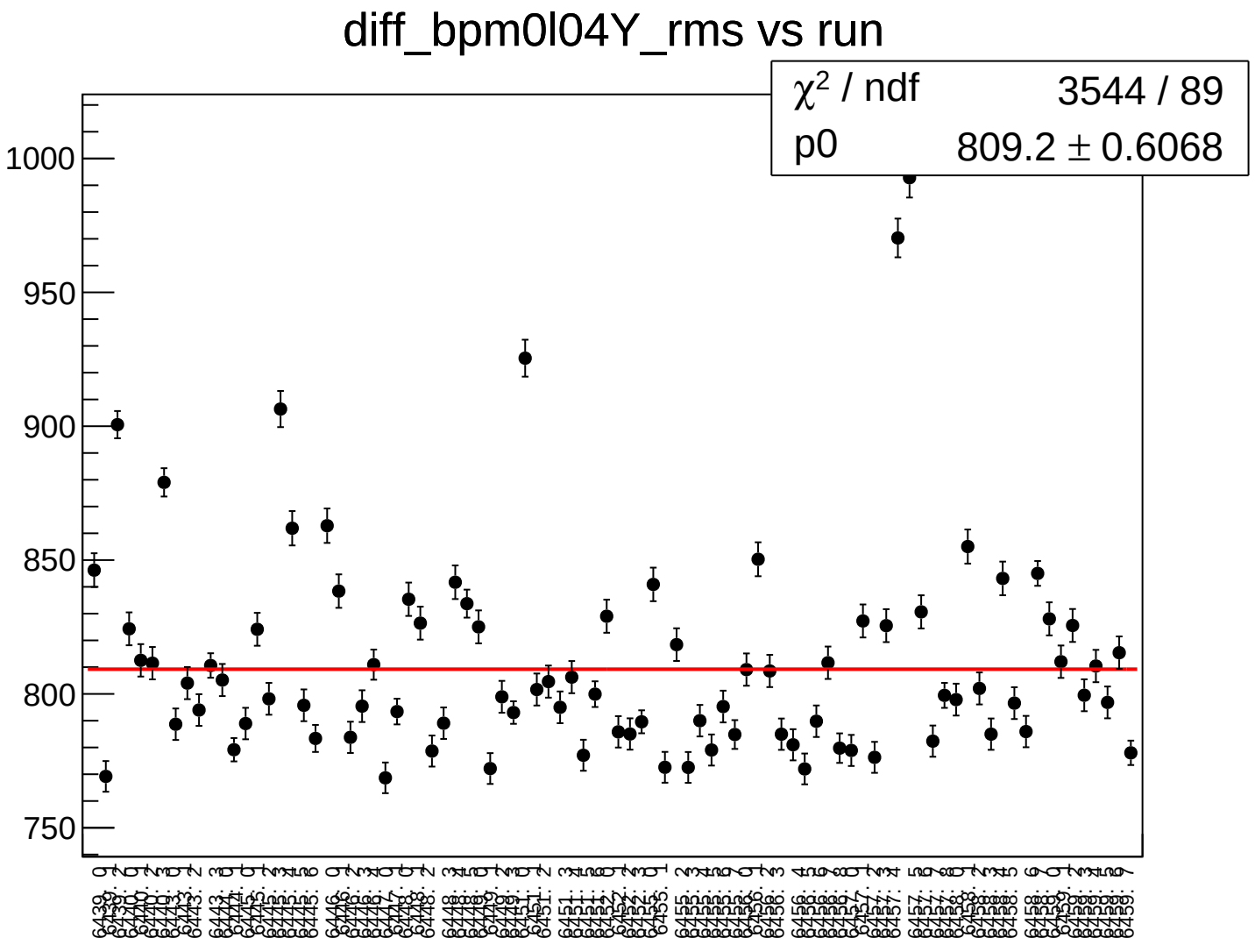

diff_bpm0l04X_mean vs run
χ² / ndf 83.65 / 89
p0 −35.31 ± 11.36
pull
Entries 90
Mean −614.1
Std Dev 0

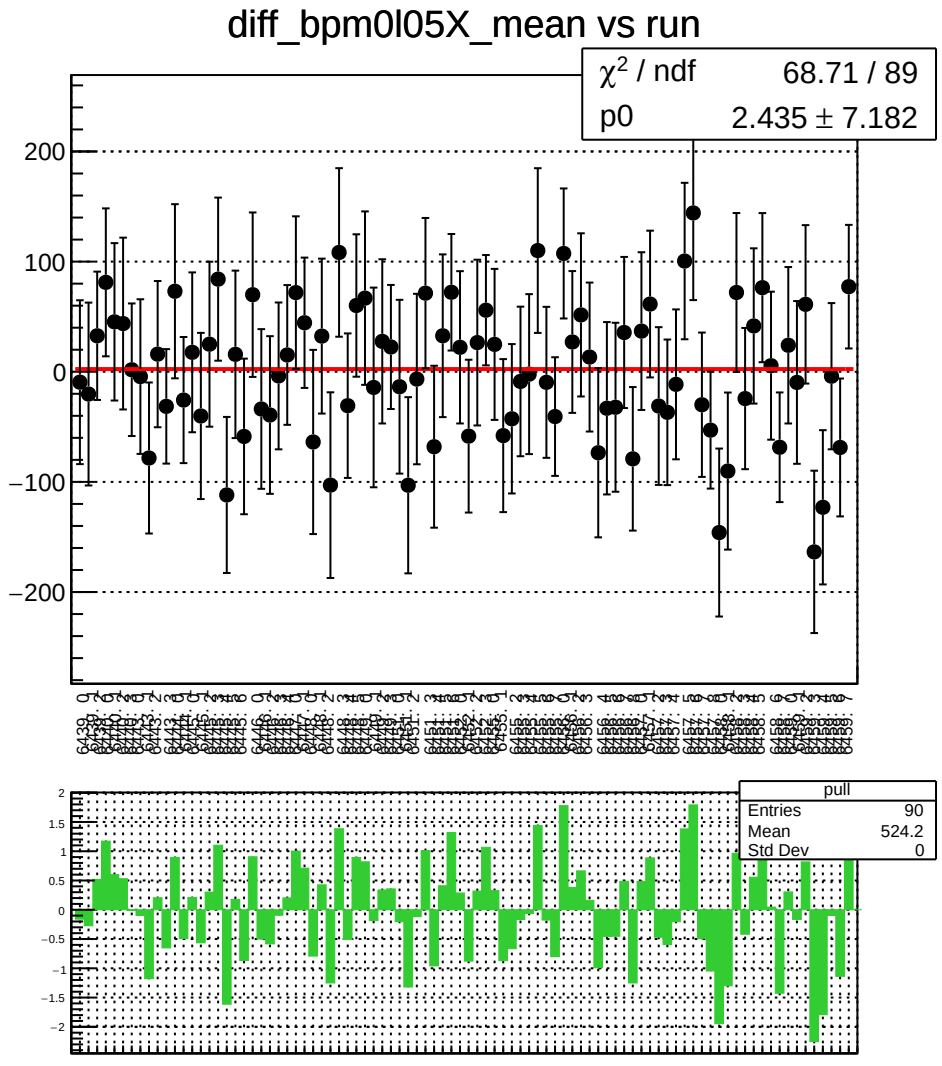

pull1D
Entries 90
Mean 0.008102
Std Dev 0.964

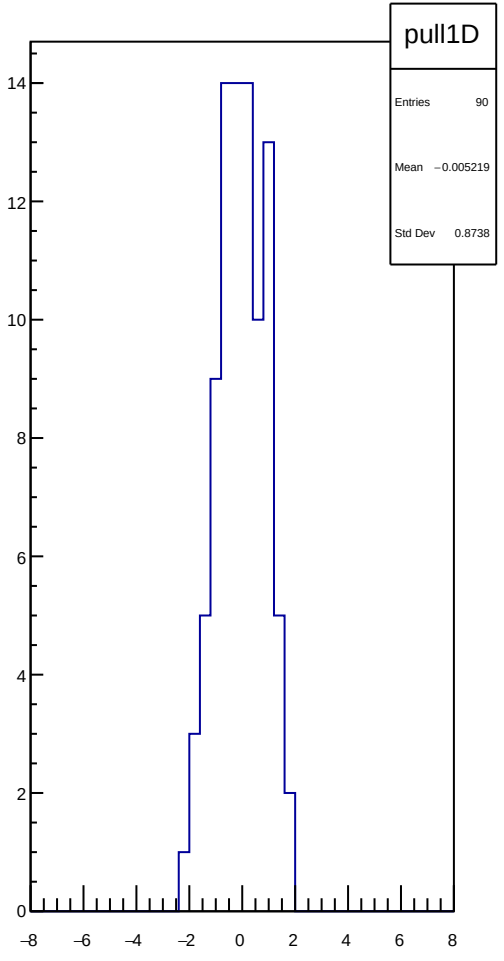

diff_bpm0l04X_rms vs run
χ² / ndf 659.1 / 89
p0 1.072e+04 ± 8.03
11400
11200
11000
10800
10600
10400
10200

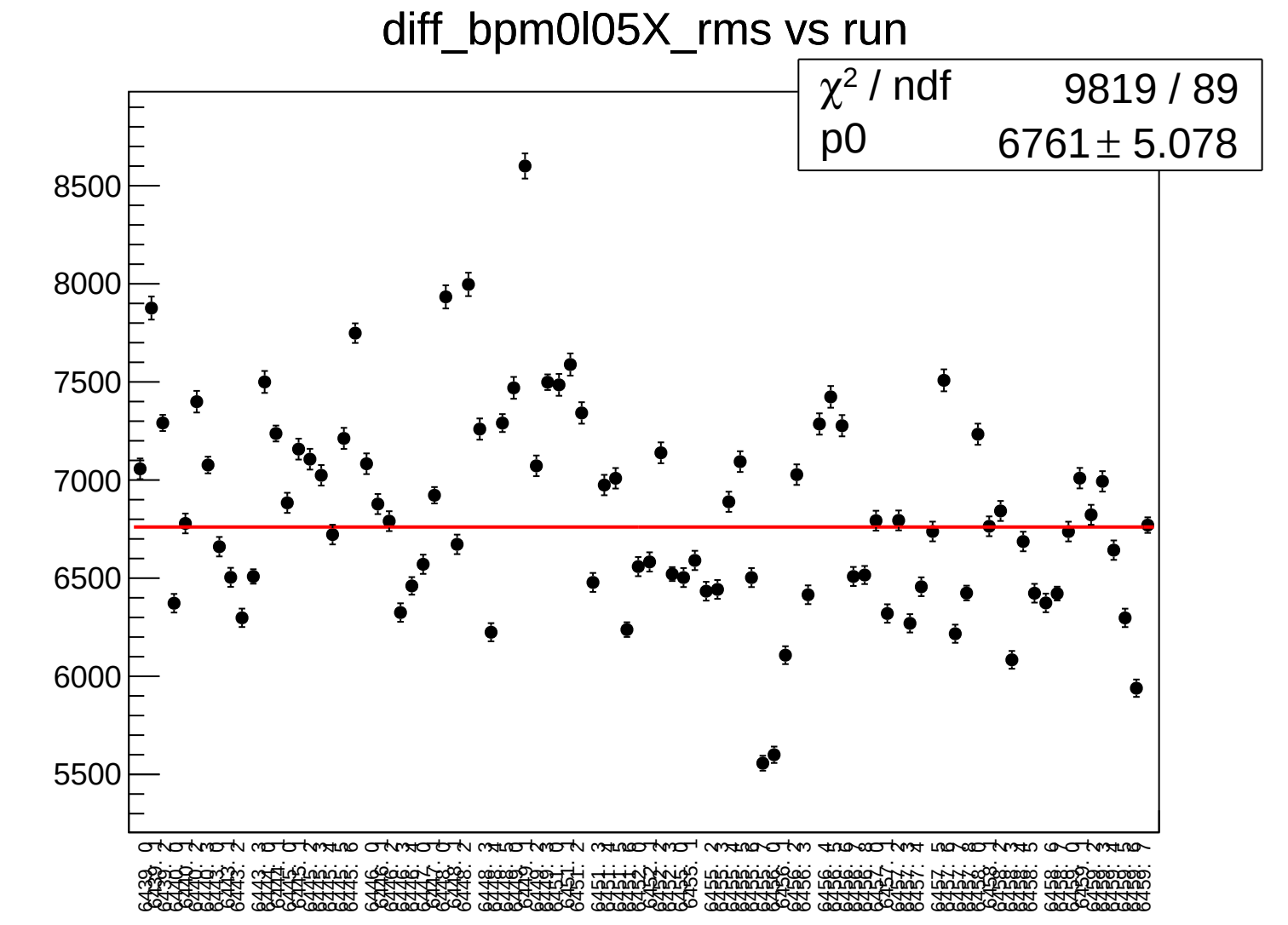

diff_bpm0l04Y_mean vs run
χ^2 / ndf 91.54 / 89
p0 −5.734 ± 0.8582
pull
Entries 90
Mean −50.6
Std Dev 0

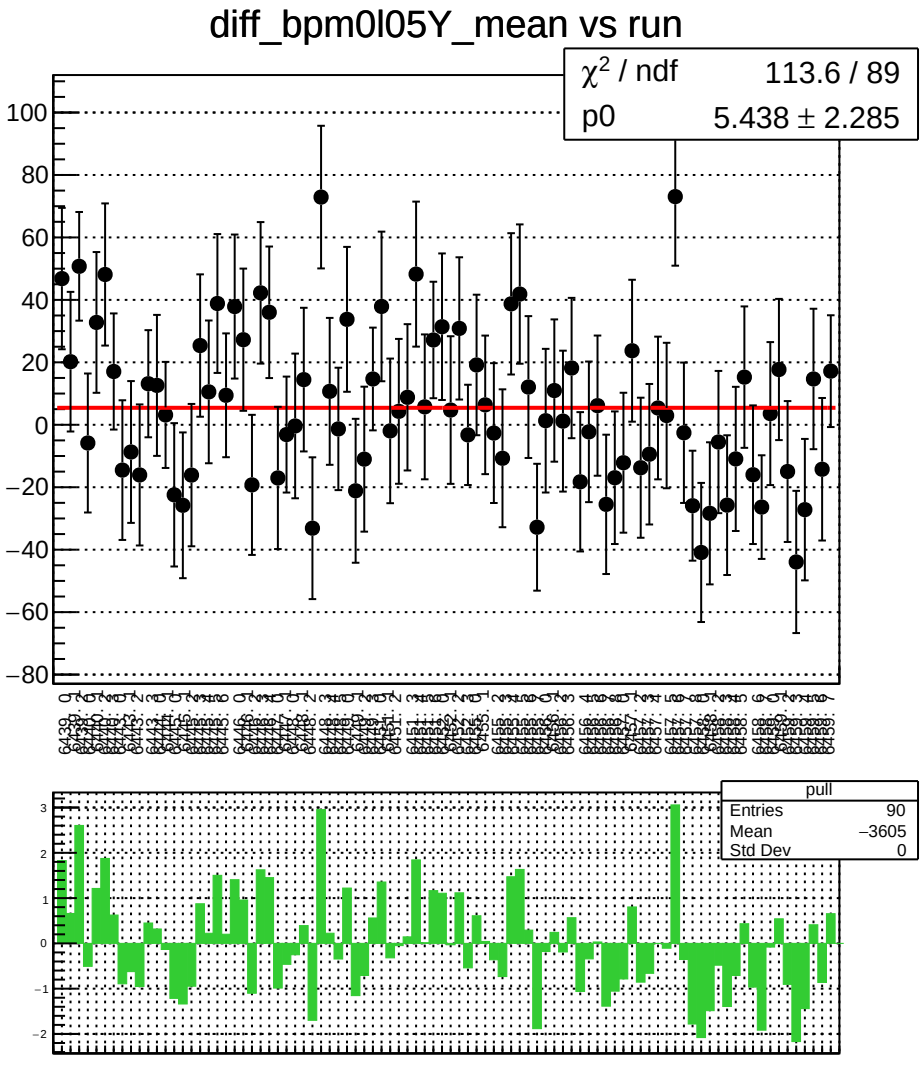

pull1D
Entries 90
Mean 0.01547
Std Dev 1.008

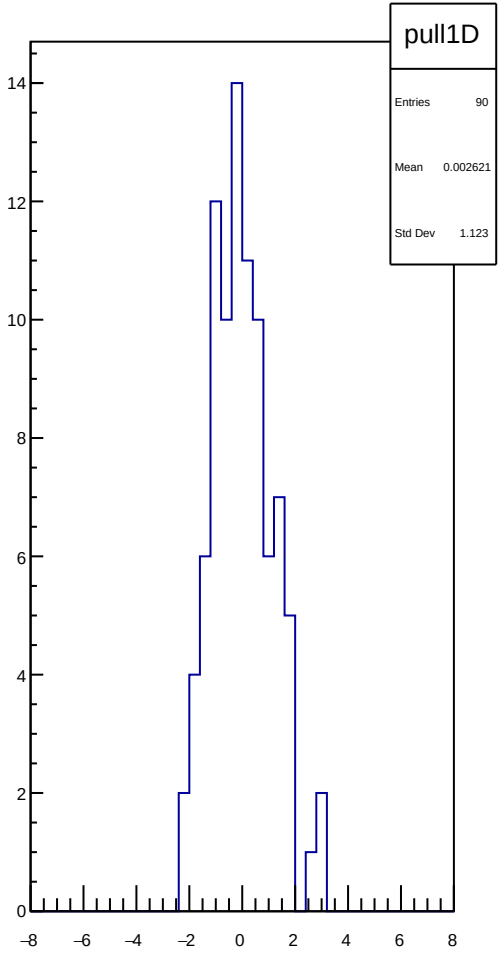

diff_bpm0l04Y_rms vs run
χ² / ndf 3544 / 89
p0 809.2 ± 0.6068
1000
950
900
850
800
750

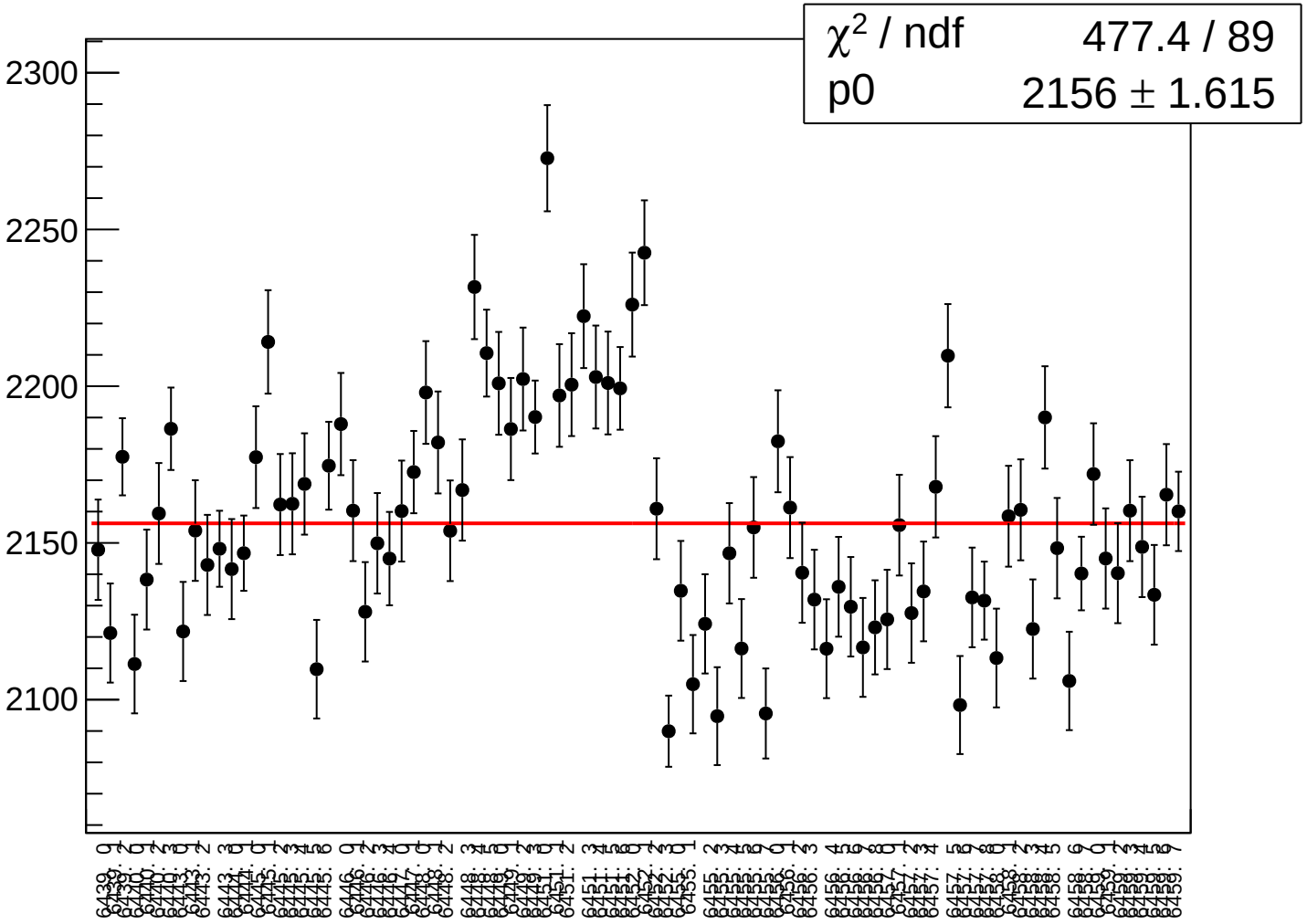

diff_bpm0l05X_mean vs run
χ² / ndf 68.71 / 89
p0 2.435 ± 7.182
200
100
0
−100
−200
pull
Entries 90
Mean 524.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

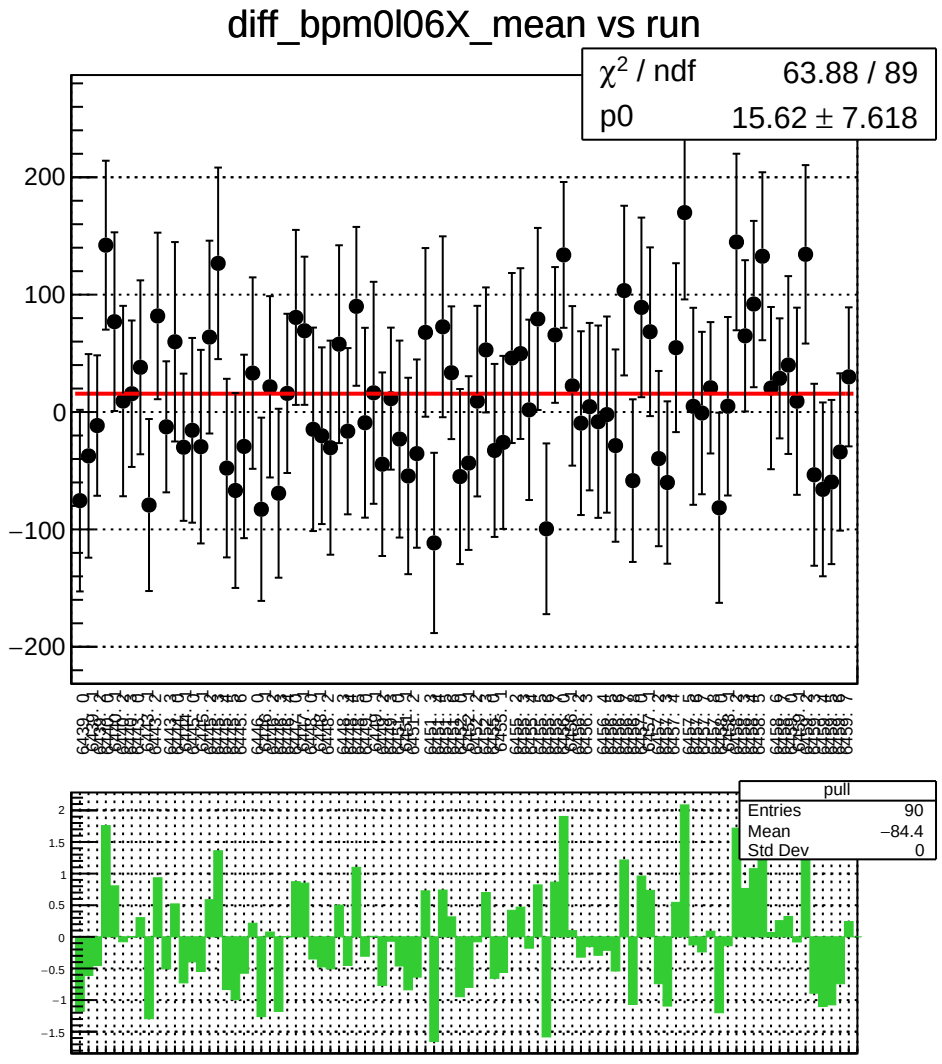

pull1D
Entries 90
Mean −0.005219
Std Dev 0.8738
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

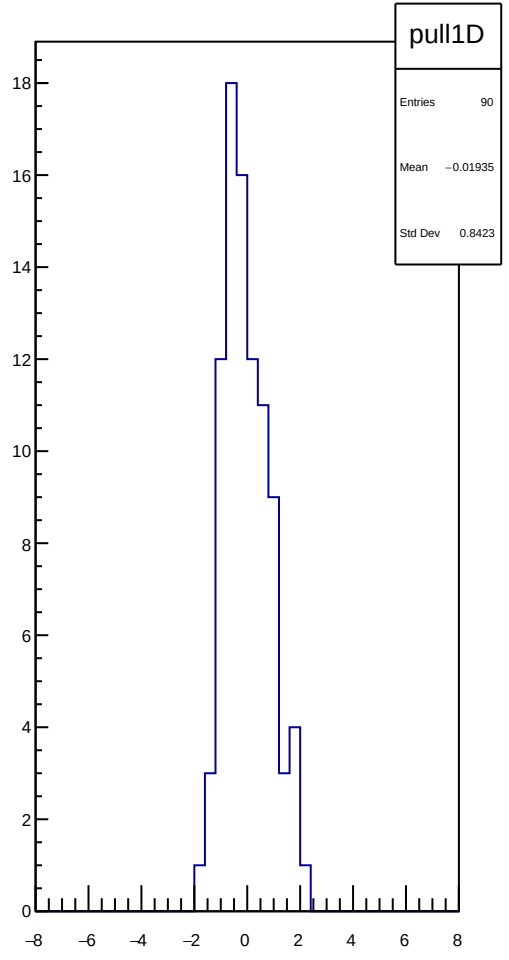

diff_bpm0l05X_rms vs run
χ² / ndf 9819 / 89
p0 6761 ± 5.078
8500
8000
7500
7000
6500
6000
5500

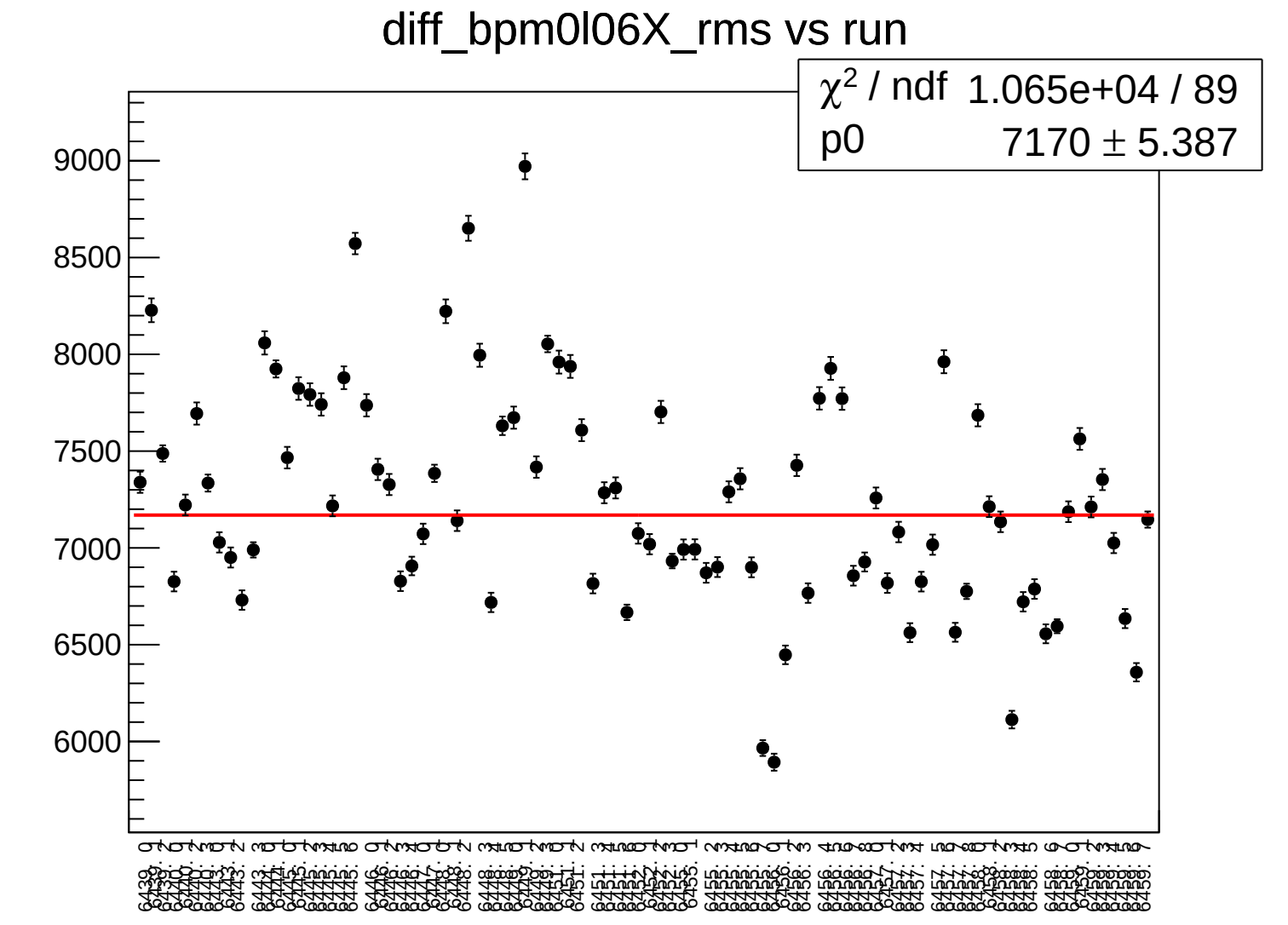

diff_bpm0l05Y_mean vs run
χ^2 / ndf 113.6 / 89
p0 5.438 ± 2.285
pull
Entries 90
Mean −3605
Std Dev 0

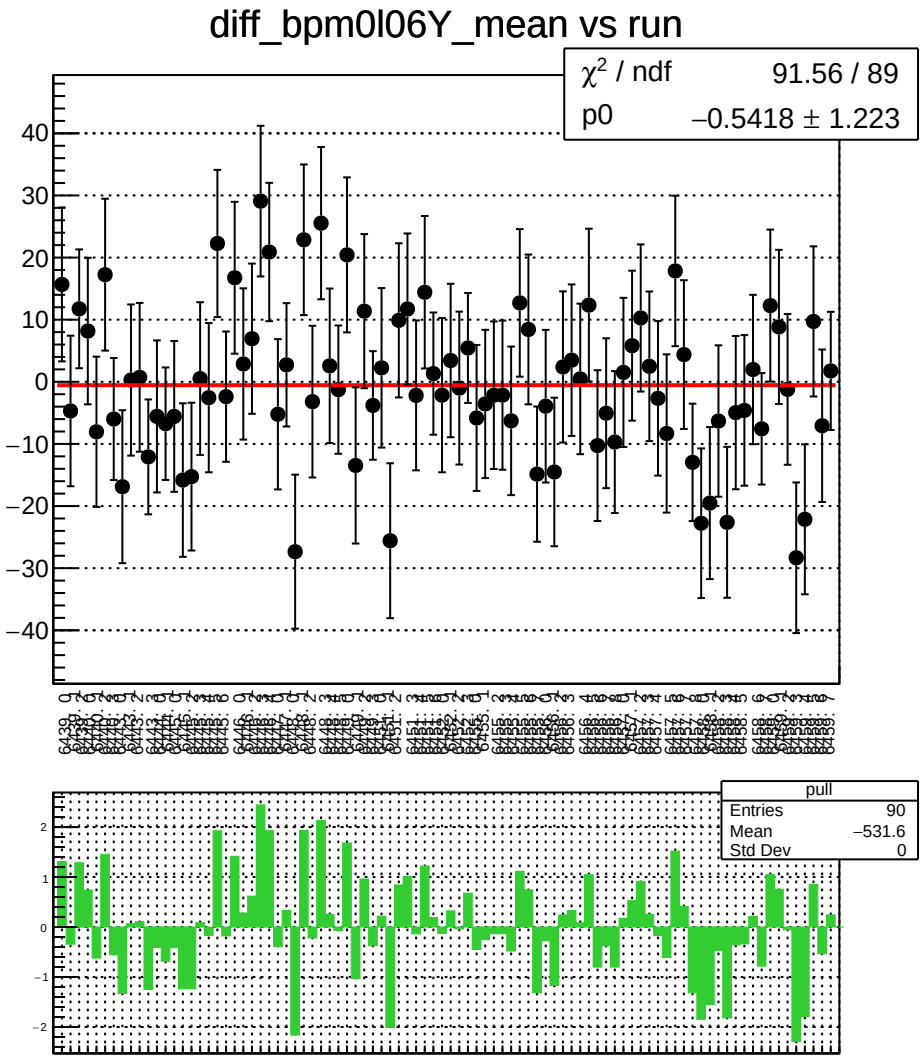

pull1D
Entries 90
Mean 0.002621
Std Dev 1.123

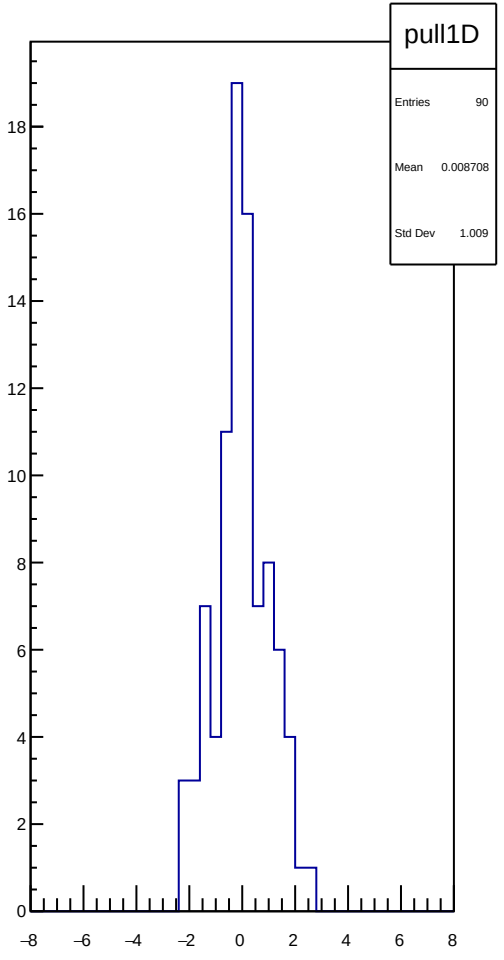

diff_bpm0l05Y_rms vs run
χ² / ndf 477.4 / 89
p0 2156 ± 1.615
2300
2250
2200
2150
2100

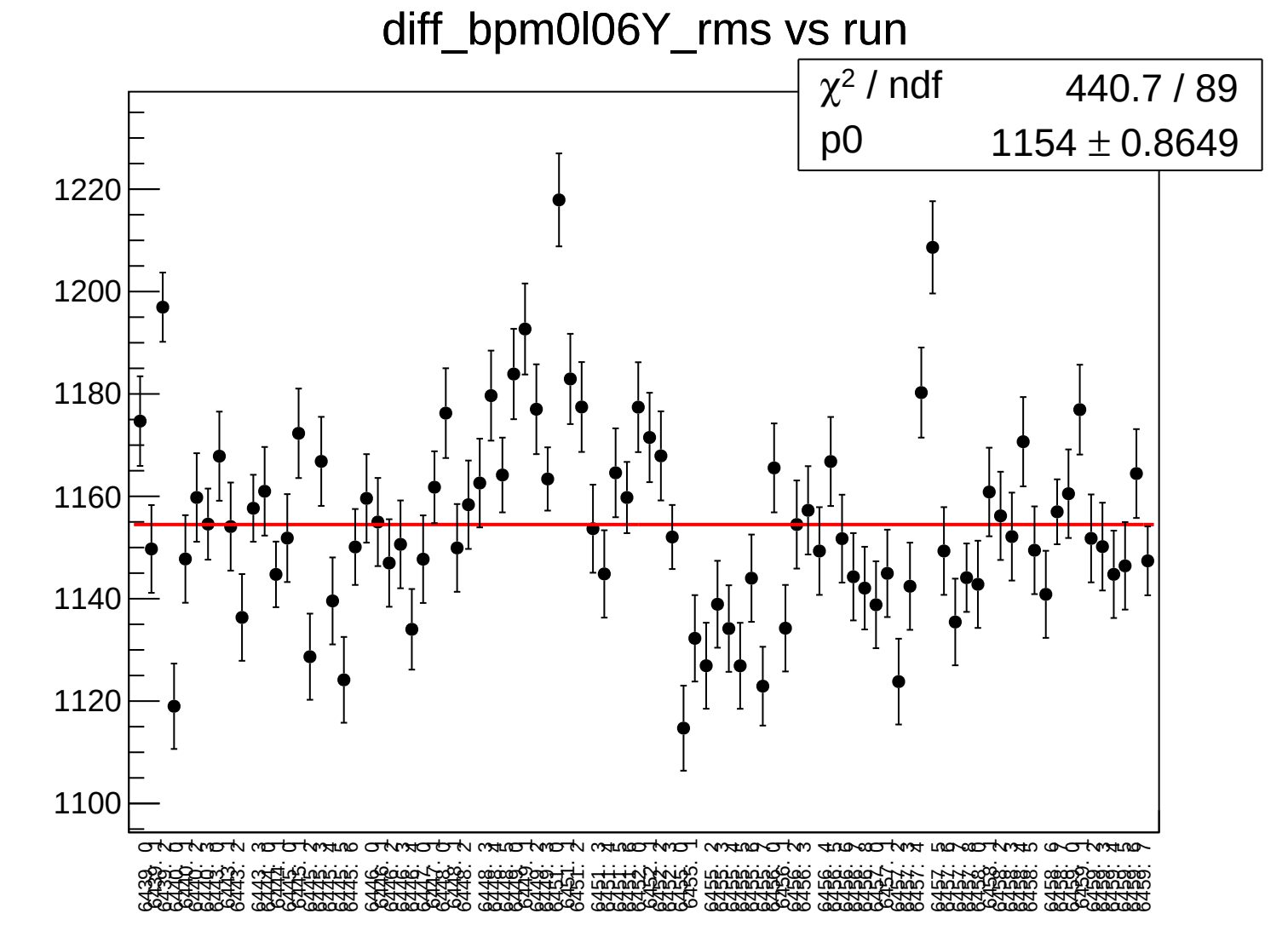

diff_bpm0l06X_mean vs run
χ^2 / ndf 63.88 / 89
p0 15.62 ± 7.618
200
100
0
−100
−200
pull
Entries 90
Mean −84.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

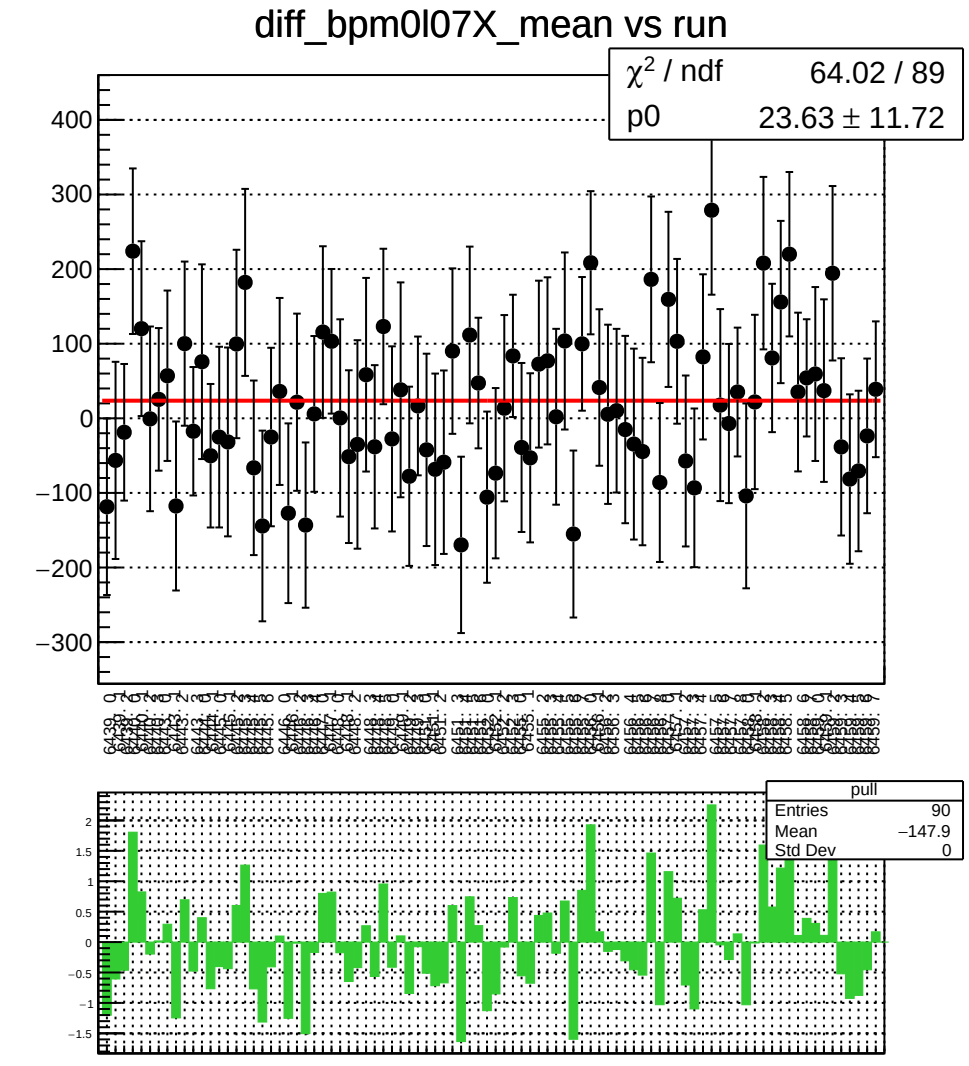

pull1D
Entries 90
Mean −0.01935
Std Dev 0.8423
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

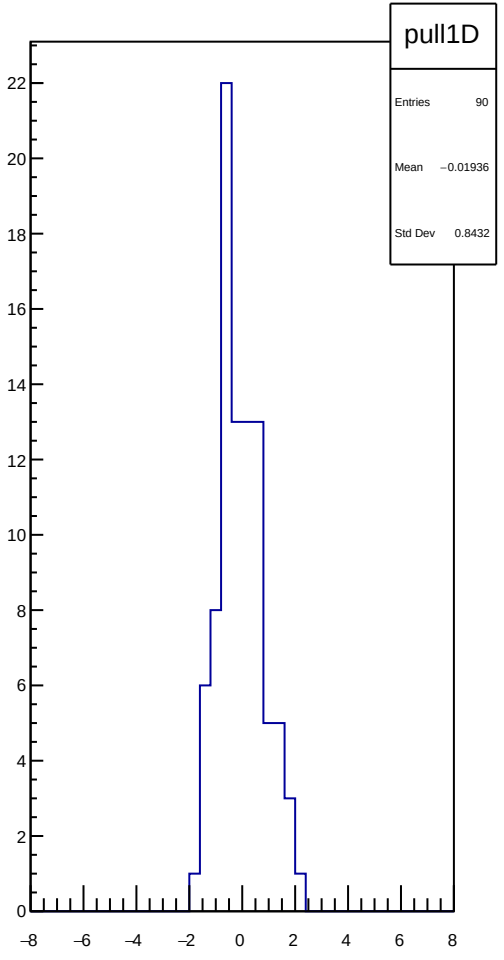

diff_bpm0l06X_rms vs run
χ² / ndf 1.065e+04 / 89
p0 7170 ± 5.387
9000
8500
8000
7500
7000
6500
6000

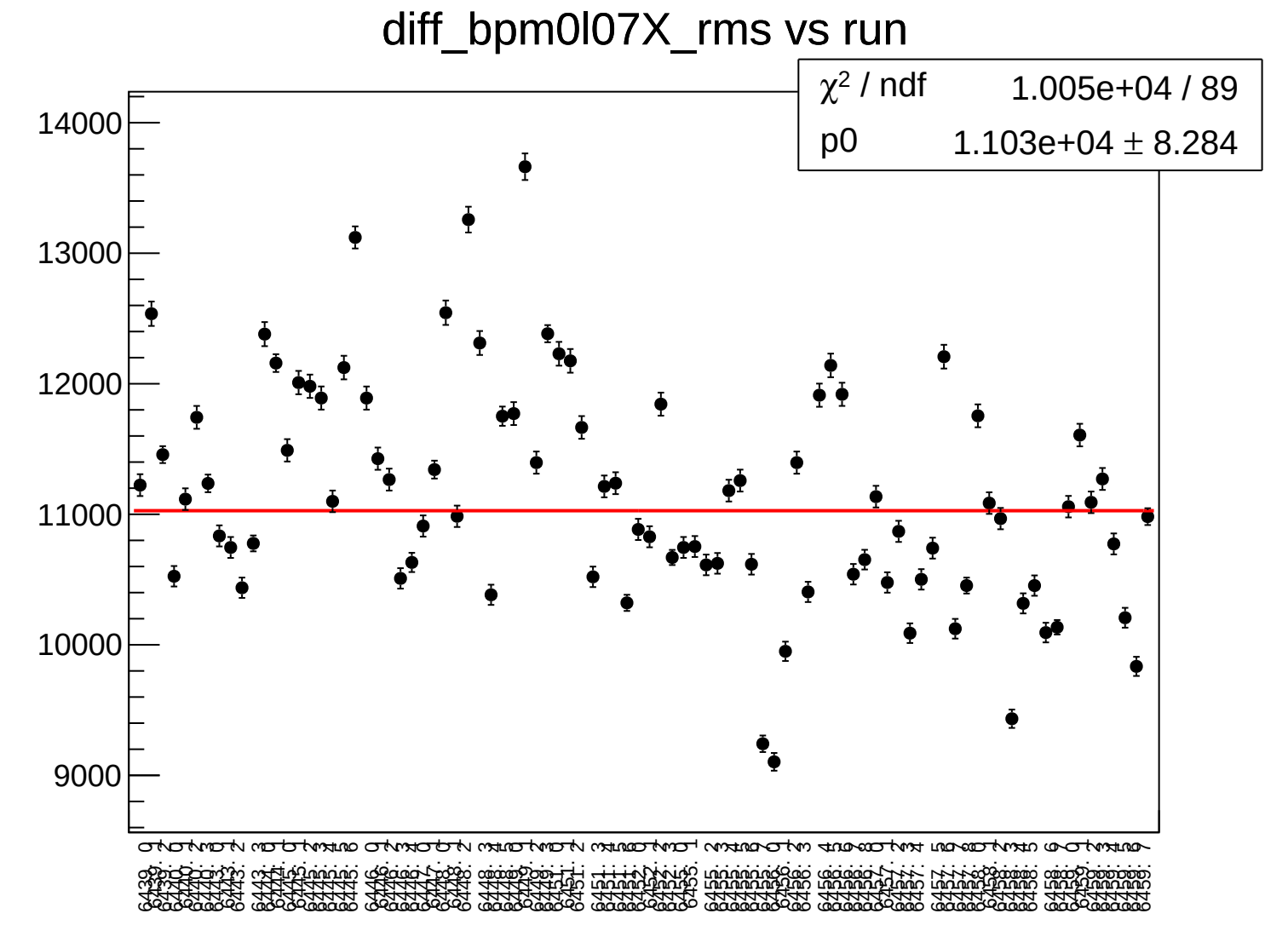

diff_bpm0l06Y_mean vs run
χ^2 / ndf 91.56 / 89
p0 −0.5418 ± 1.223
pull
Entries 90
Mean −531.6
Std Dev 0

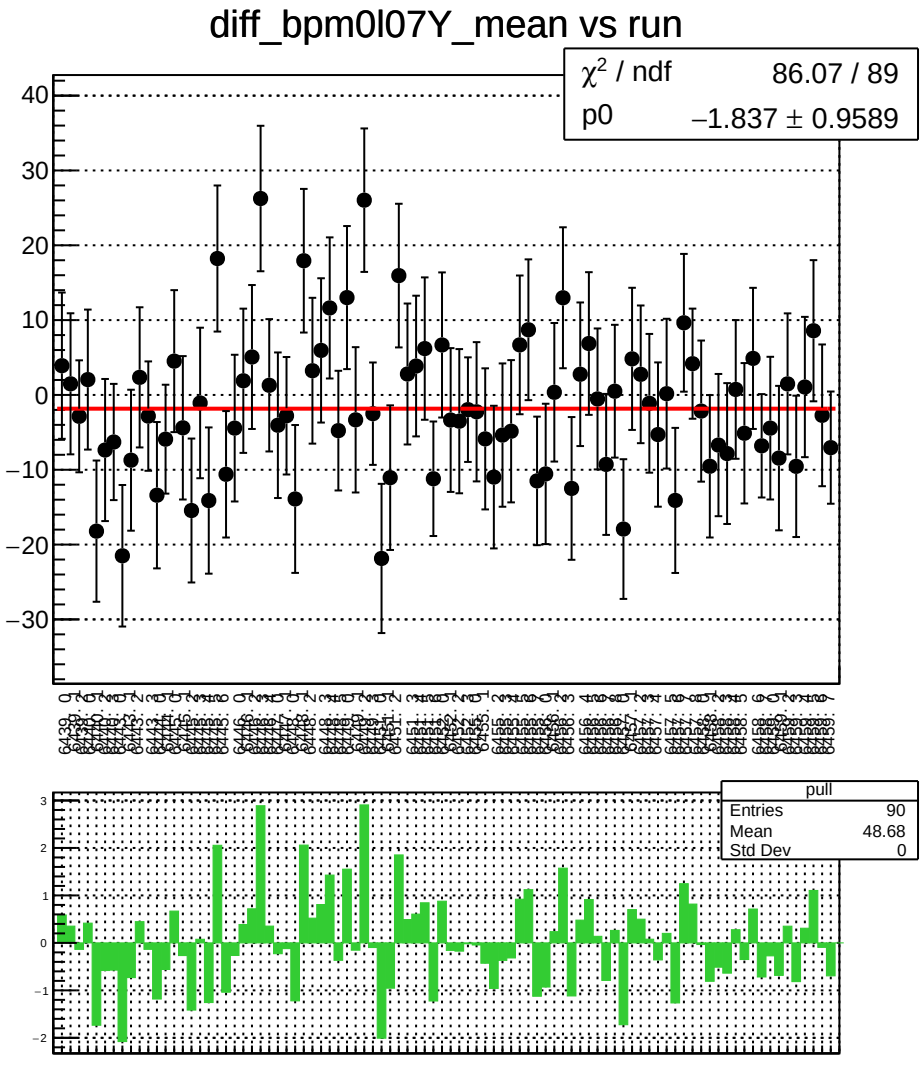

pull1D
Entries 90
Mean 0.008708
Std Dev 1.009

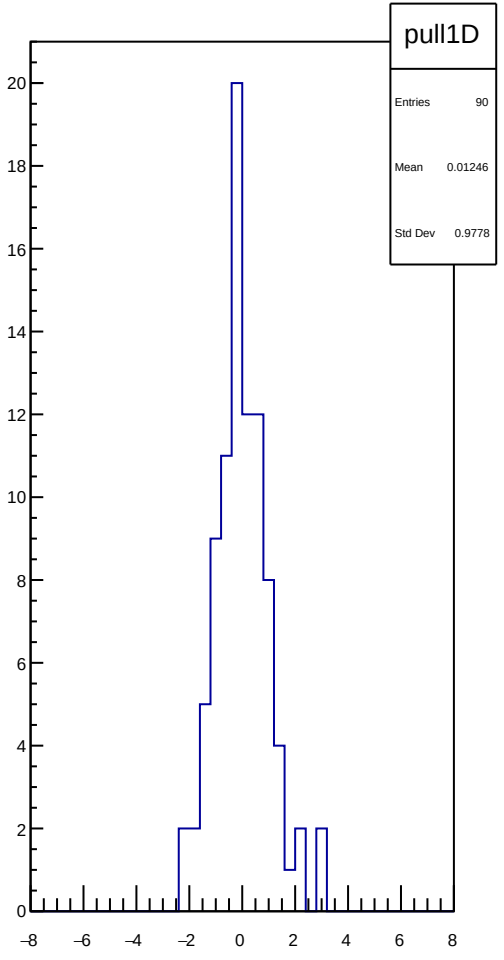

diff_bpm0l06Y_rms vs run
χ² / ndf 440.7 / 89
p0 1154 ± 0.8649
1220
1200
1180
1160
1140
1120
1100

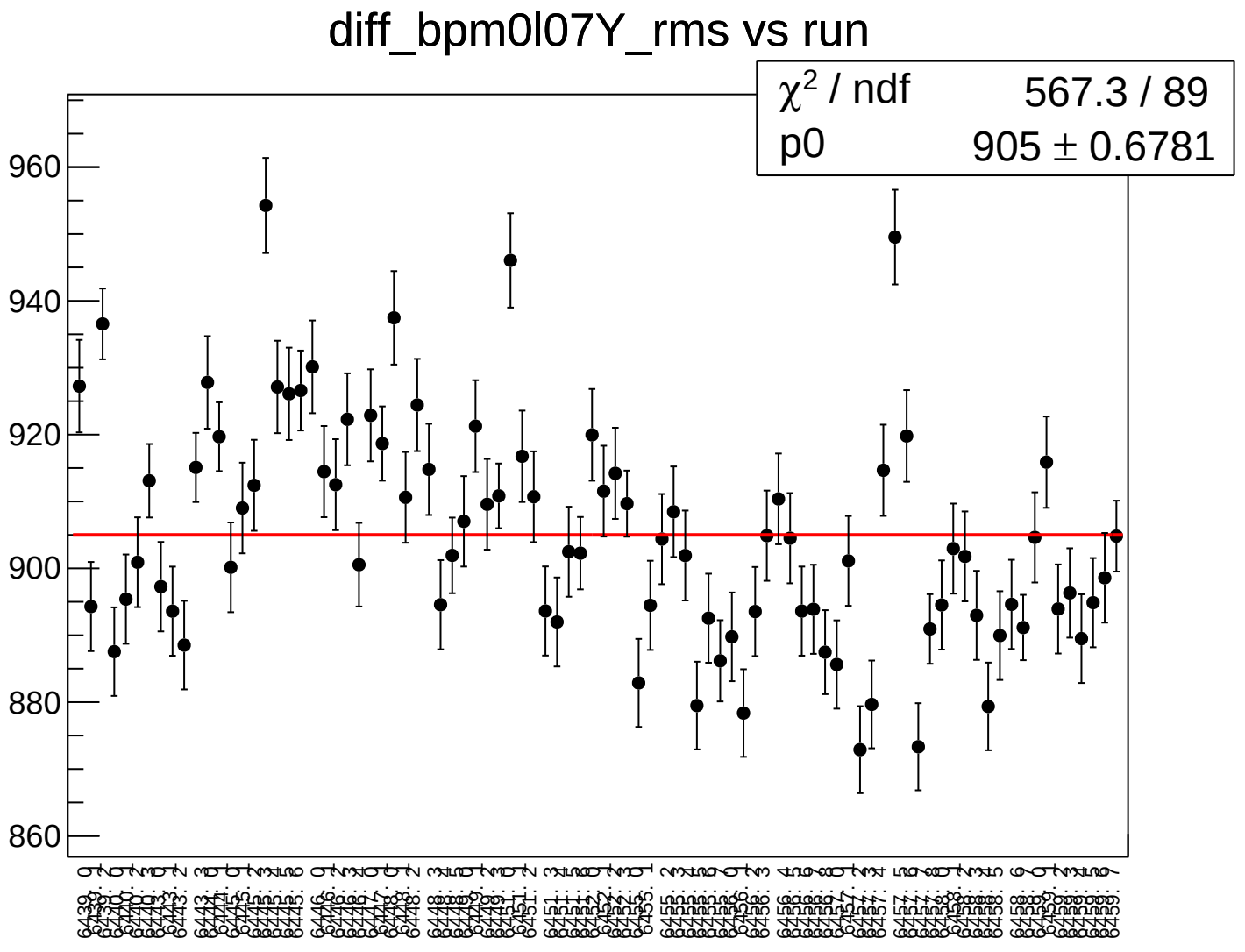

diff_bpm0l07X_mean vs run
χ^2 / ndf 64.02 / 89
p0 23.63 ± 11.72
pull
Entries 90
Mean −147.9
Std Dev 0

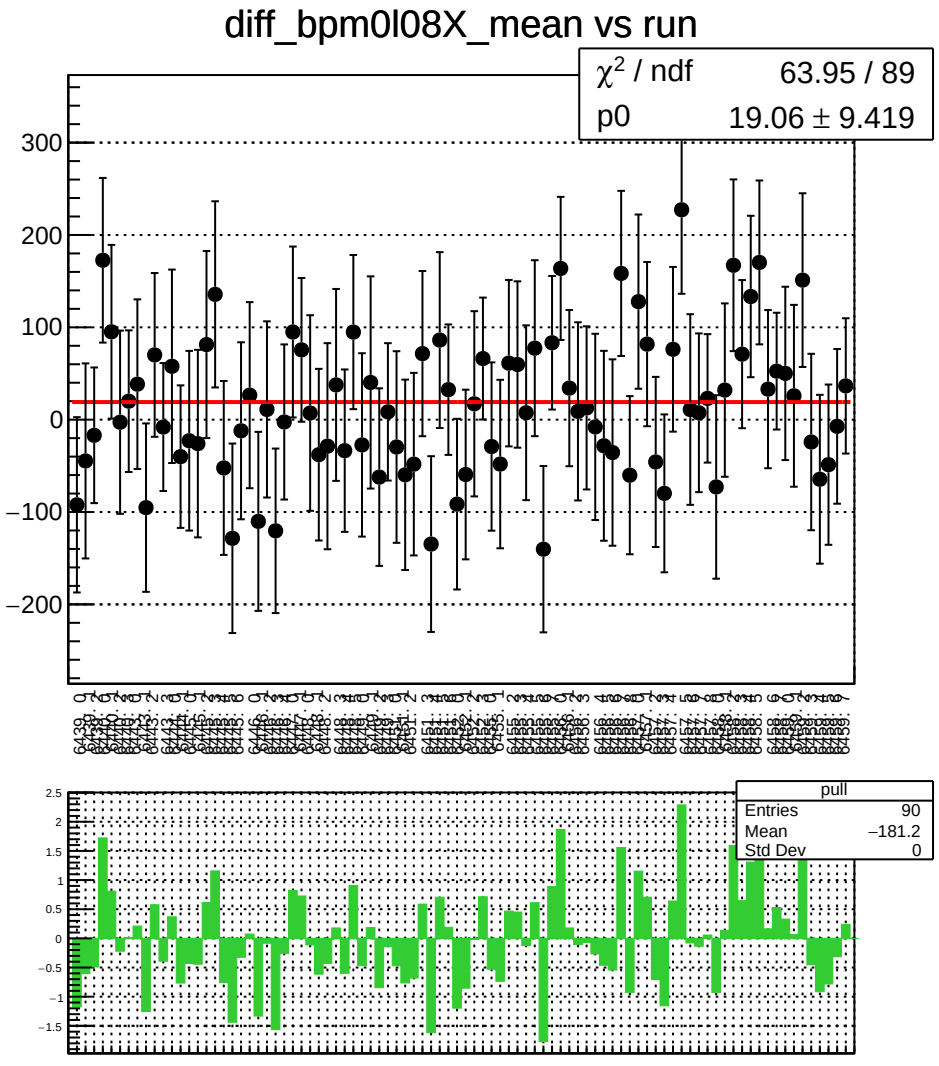

pull1D
Entries 90
Mean −0.01936
Std Dev 0.8432

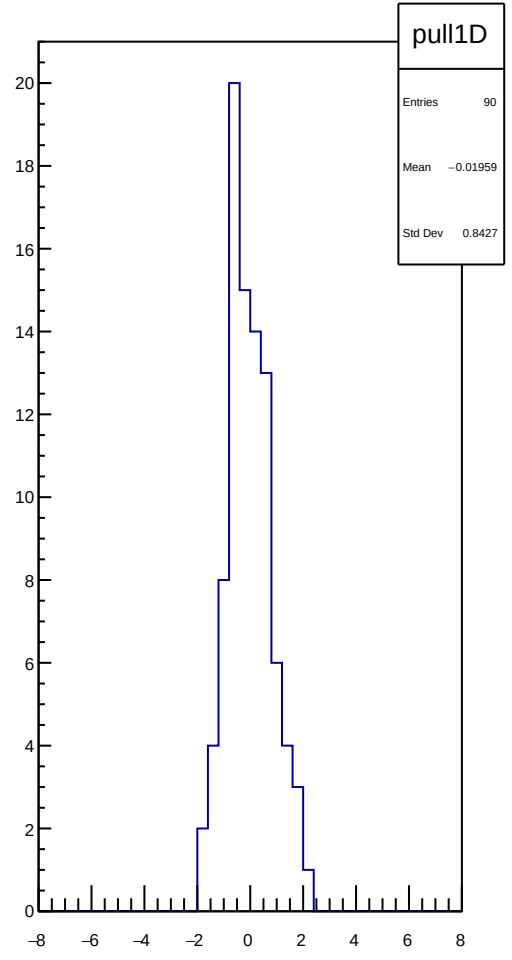

diff_bpm0l07X_rms vs run
χ² / ndf 1.005e+04 / 89
p0 1.103e+04 ± 8.284
14000
13000
12000
11000
10000
9000

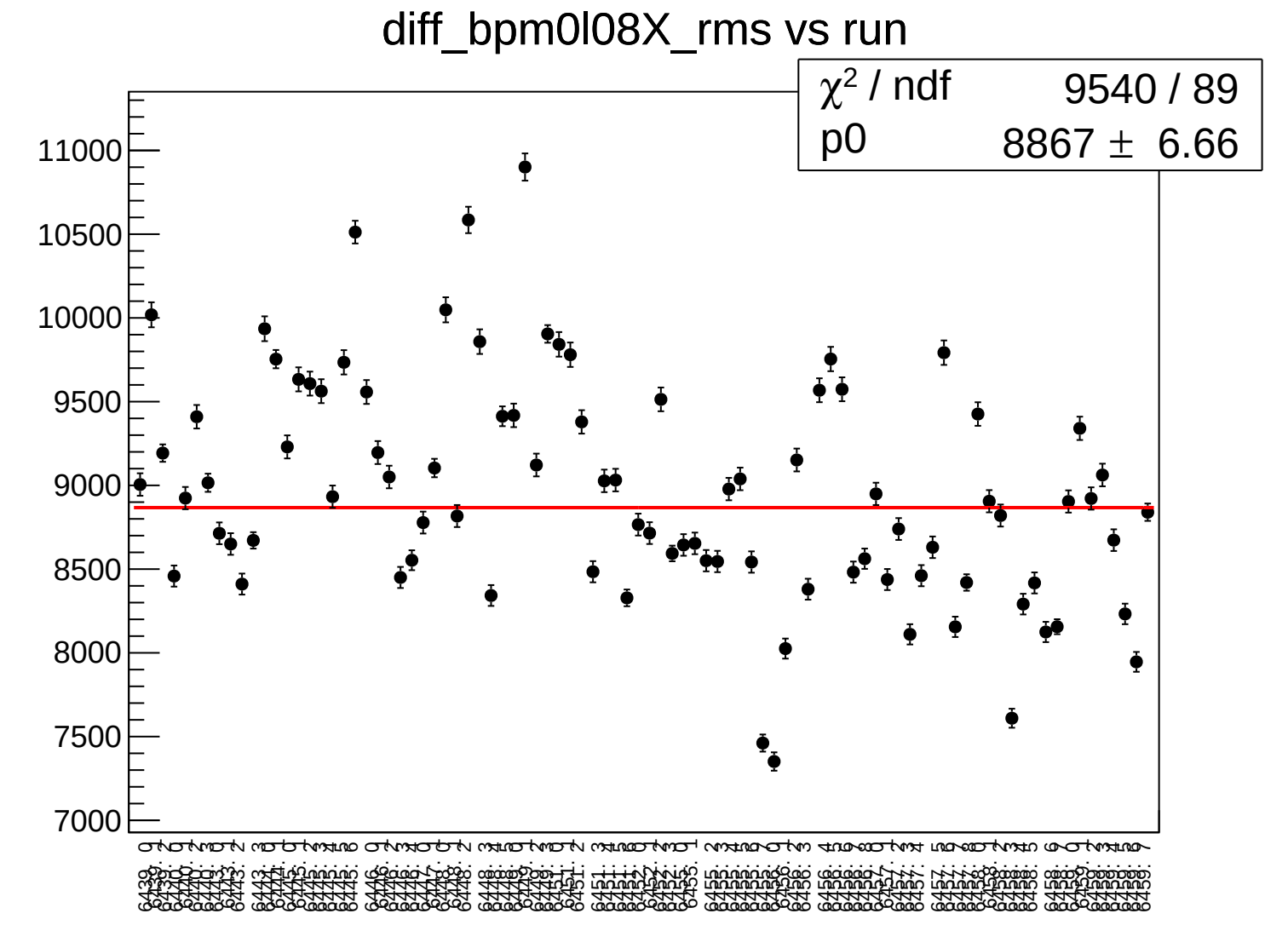

diff_bpm0l07Y_mean vs run
χ² / ndf 86.07 / 89
p0 −1.837 ± 0.9589
pull
Entries 90
Mean 48.68
Std Dev 0

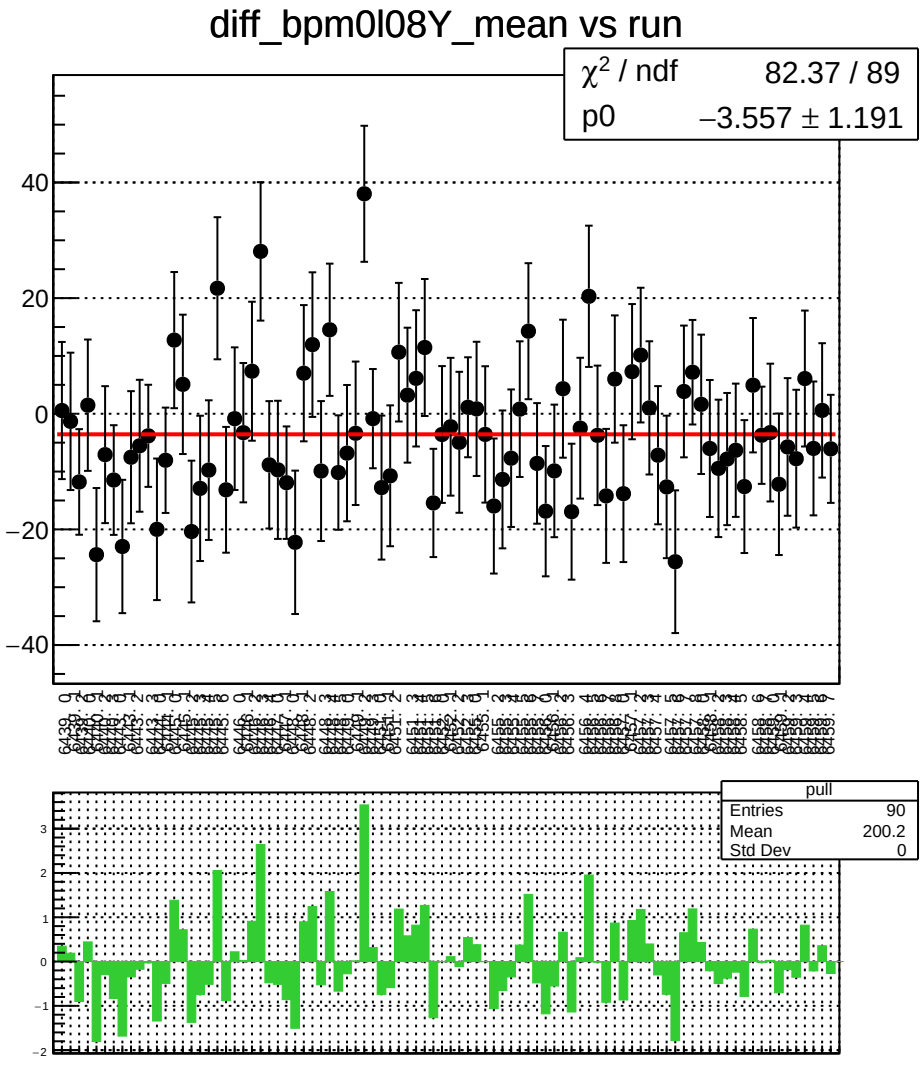

pull1D
Entries 90
Mean 0.01246
Std Dev 0.9778

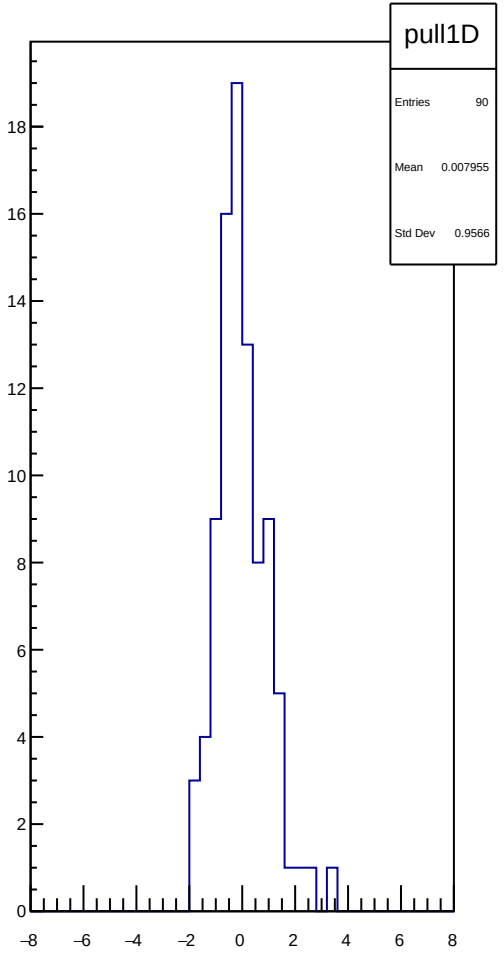

diff_bpm0l07Y_rms vs run
χ² / ndf 567.3 / 89
p0 905 ± 0.6781
960
940
920
900
880
860

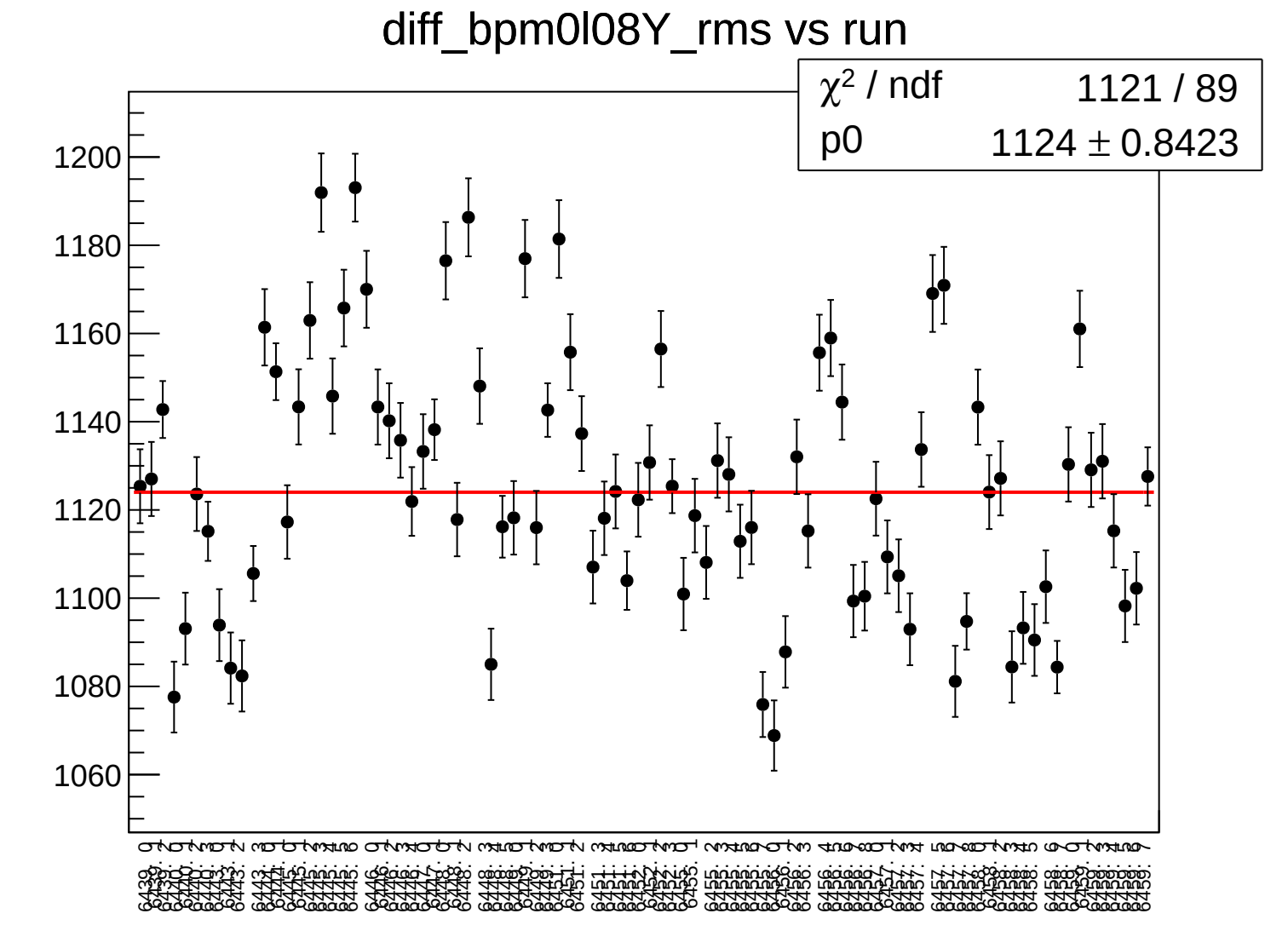

diff_bpm0l08X_mean vs run
χ^2 / ndf 63.95 / 89
p0 19.06 ± 9.419
pull
Entries 90
Mean −181.2
Std Dev 0

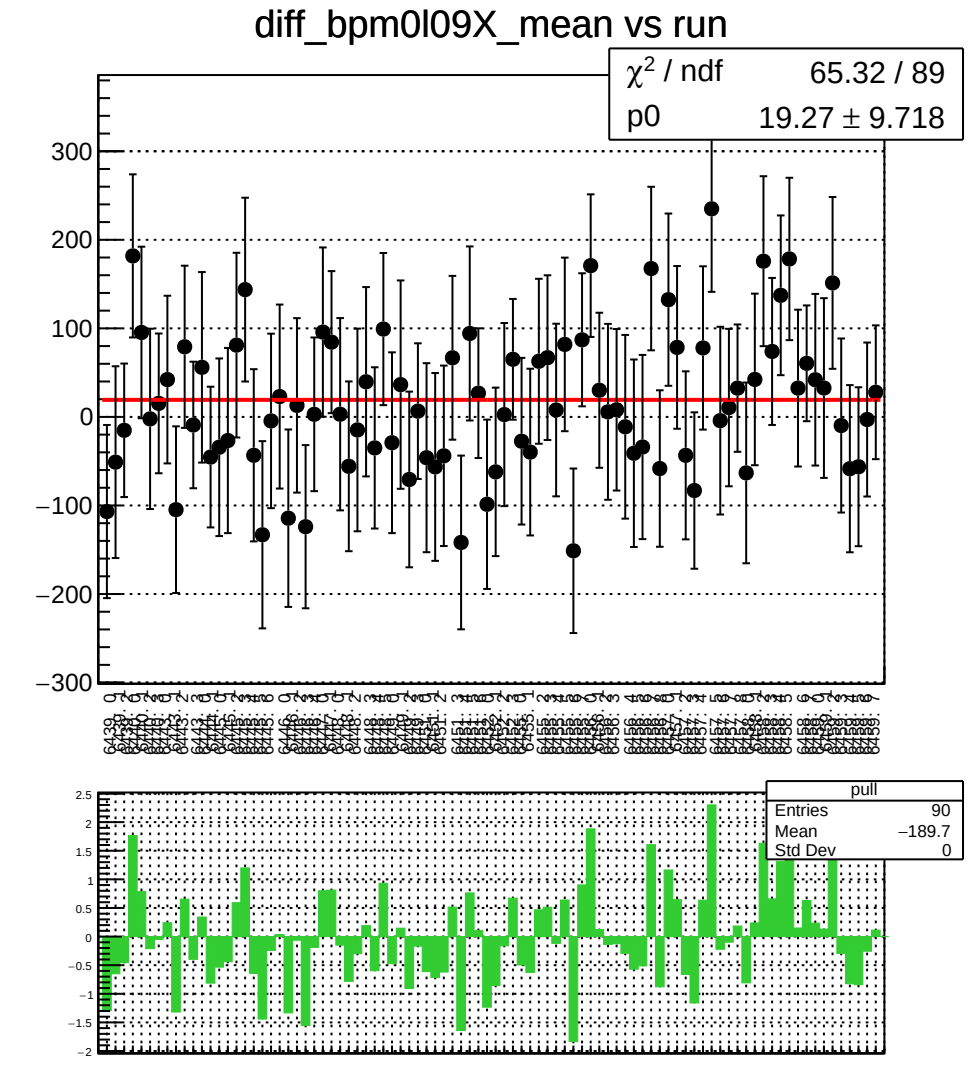

pull1D
Entries 90
Mean −0.01959
Std Dev 0.8427

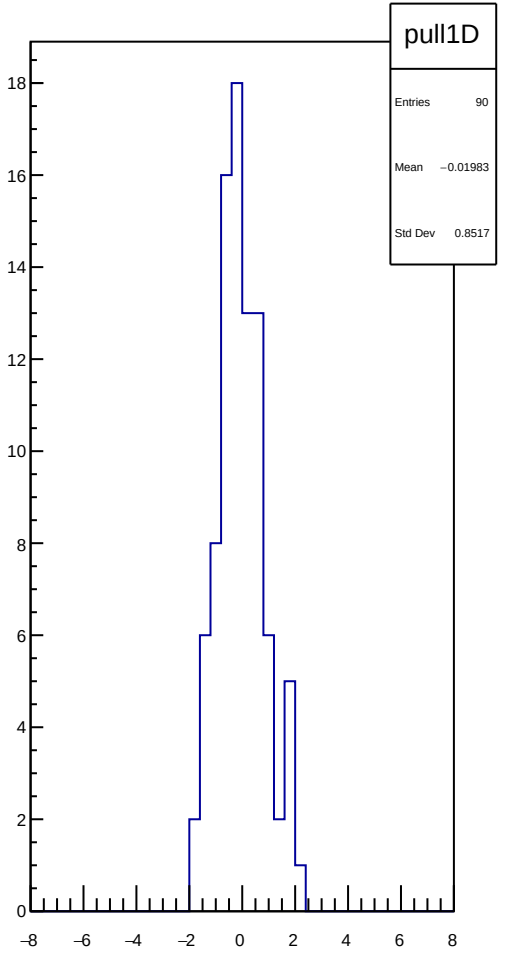

diff_bpm0l08X_rms vs run
χ² / ndf 9540 / 89
p0 8867 ± 6.66
11000
10500
10000
9500
9000
8500
8000
7500
7000

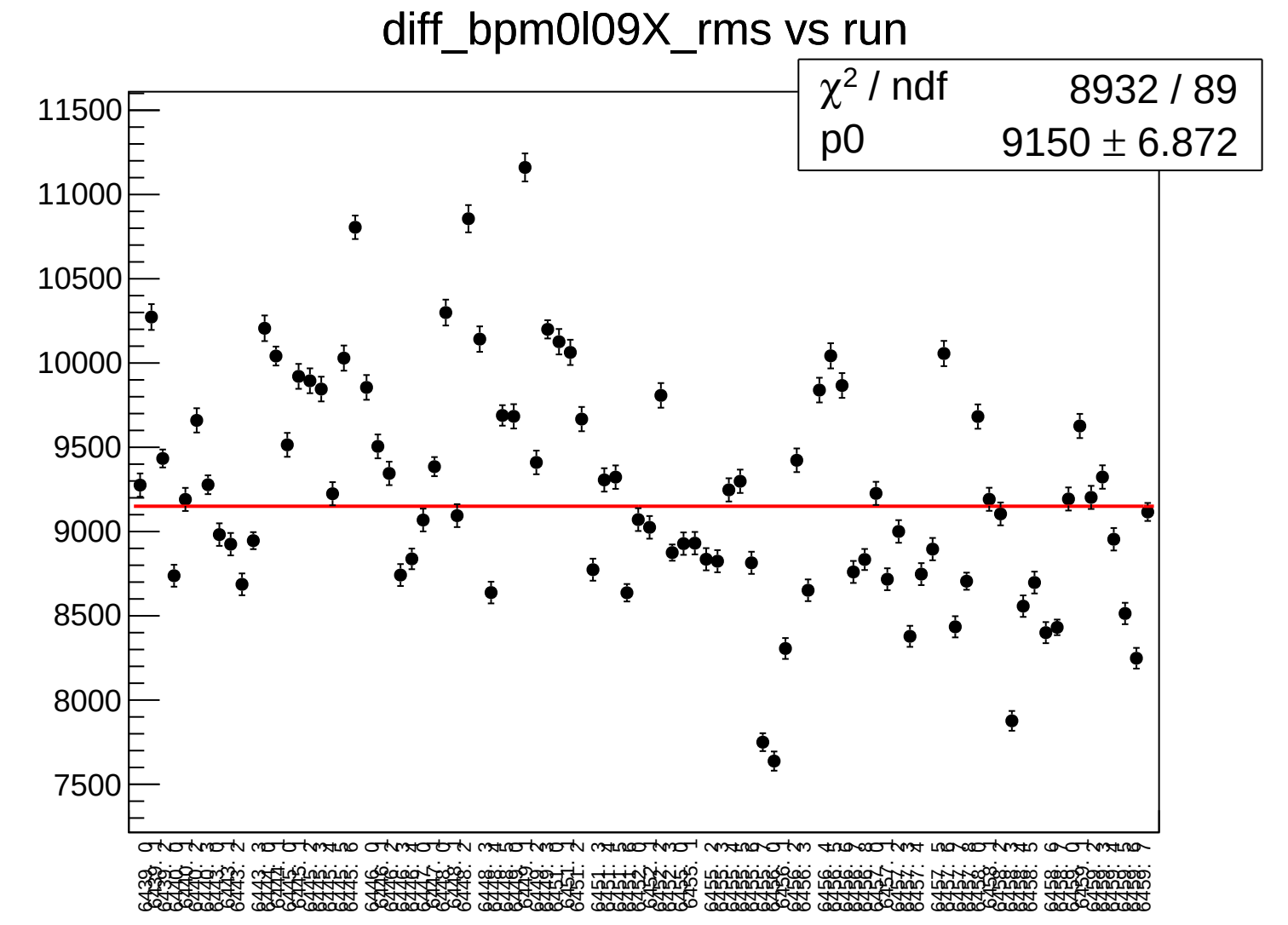

diff_bpm0l08Y_mean vs run
χ^2 / ndf 82.37 / 89
p0 −3.557 ± 1.191
40
20
0
−20
−40
pull
Entries 90
Mean 200.2
Std Dev 0
3
2
1
0
−1
−2

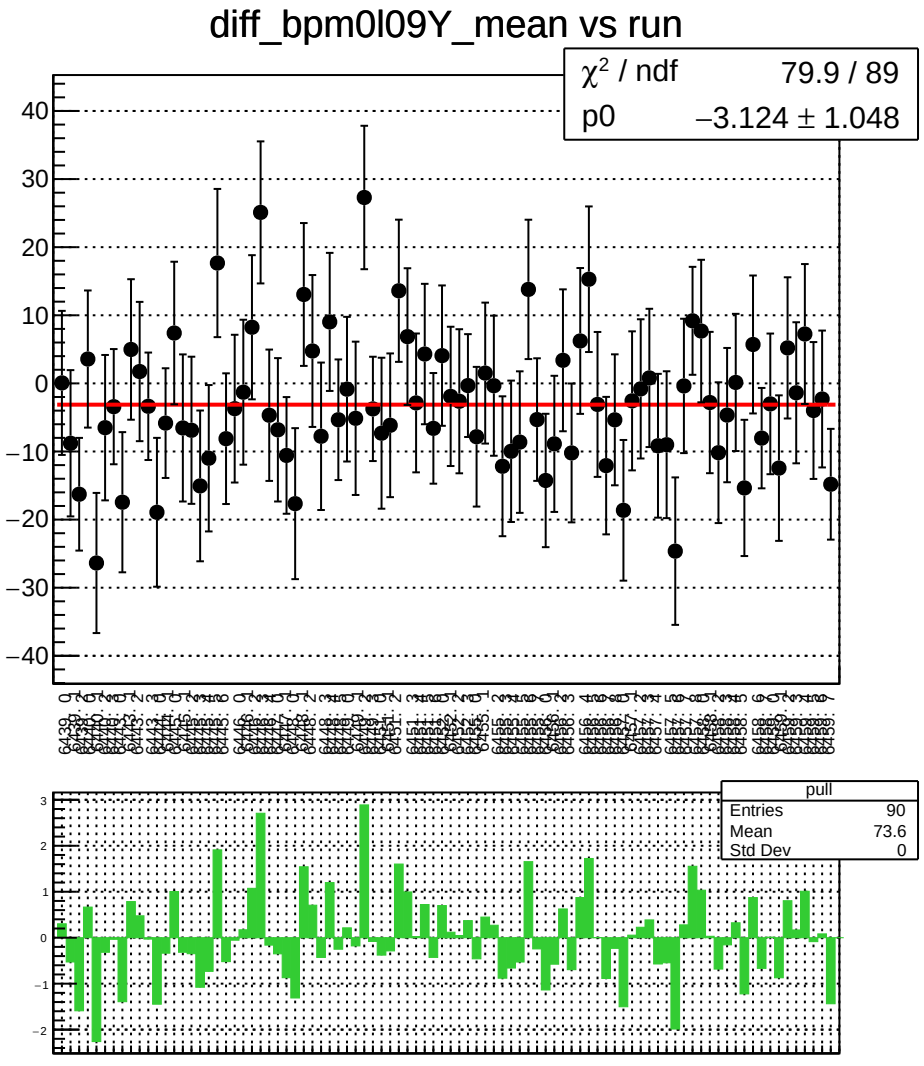

pull1D
Entries 90
Mean 0.007955
Std Dev 0.9566
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

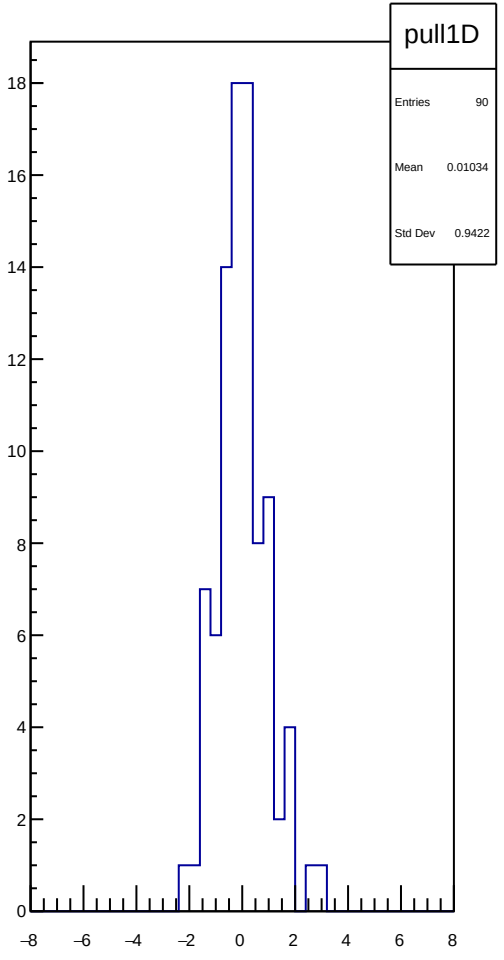

diff_bpm0l08Y_rms vs run
χ² / ndf 1121 / 89
p0 1124 ± 0.8423
1200
1180
1160
1140
1120
1100
1080
1060

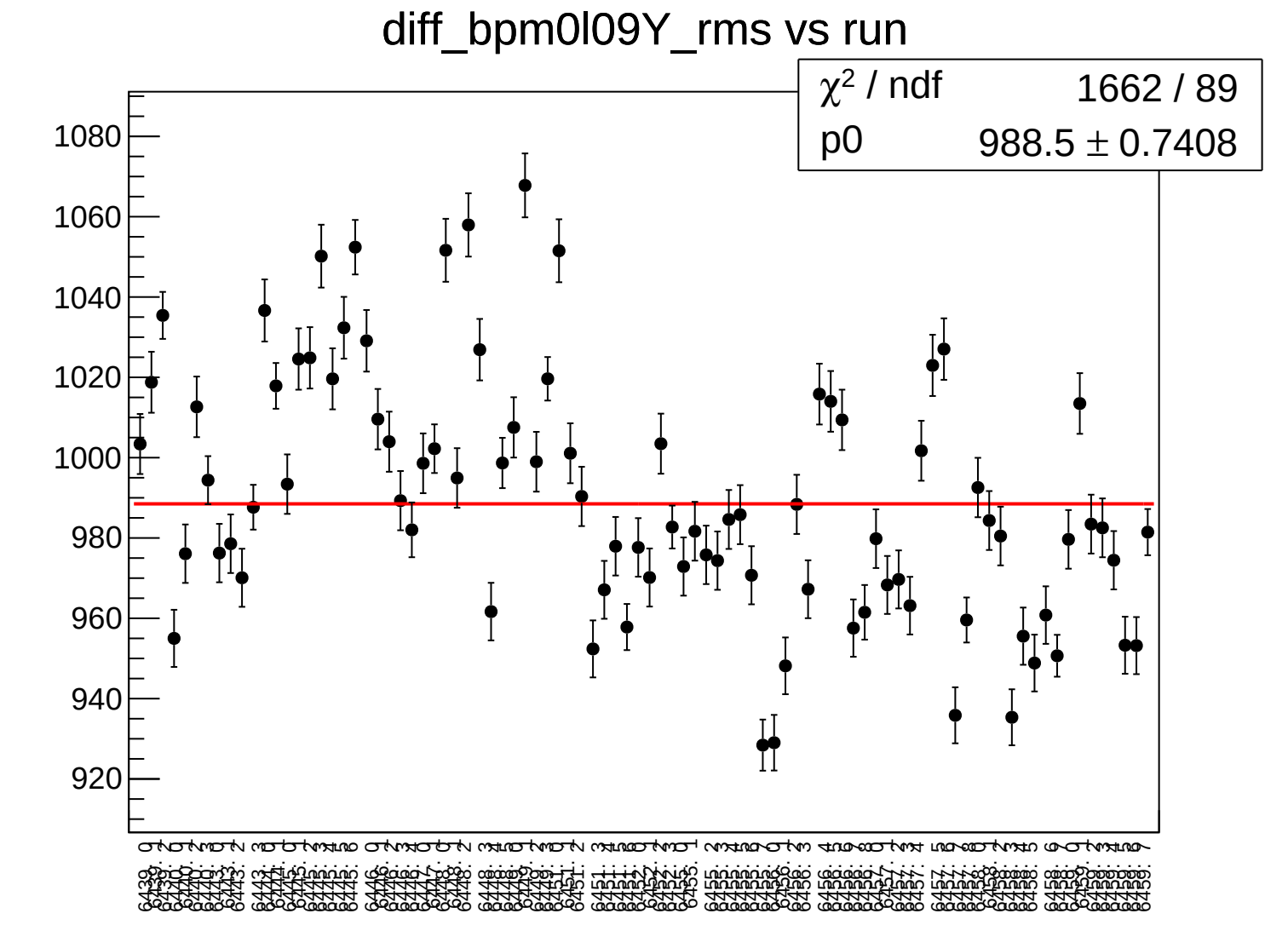

diff_bpm0l09X_mean vs run
χ² / ndf 65.32 / 89
p0 19.27 ± 9.718
pull
Entries 90
Mean −189.7
Std Dev 0

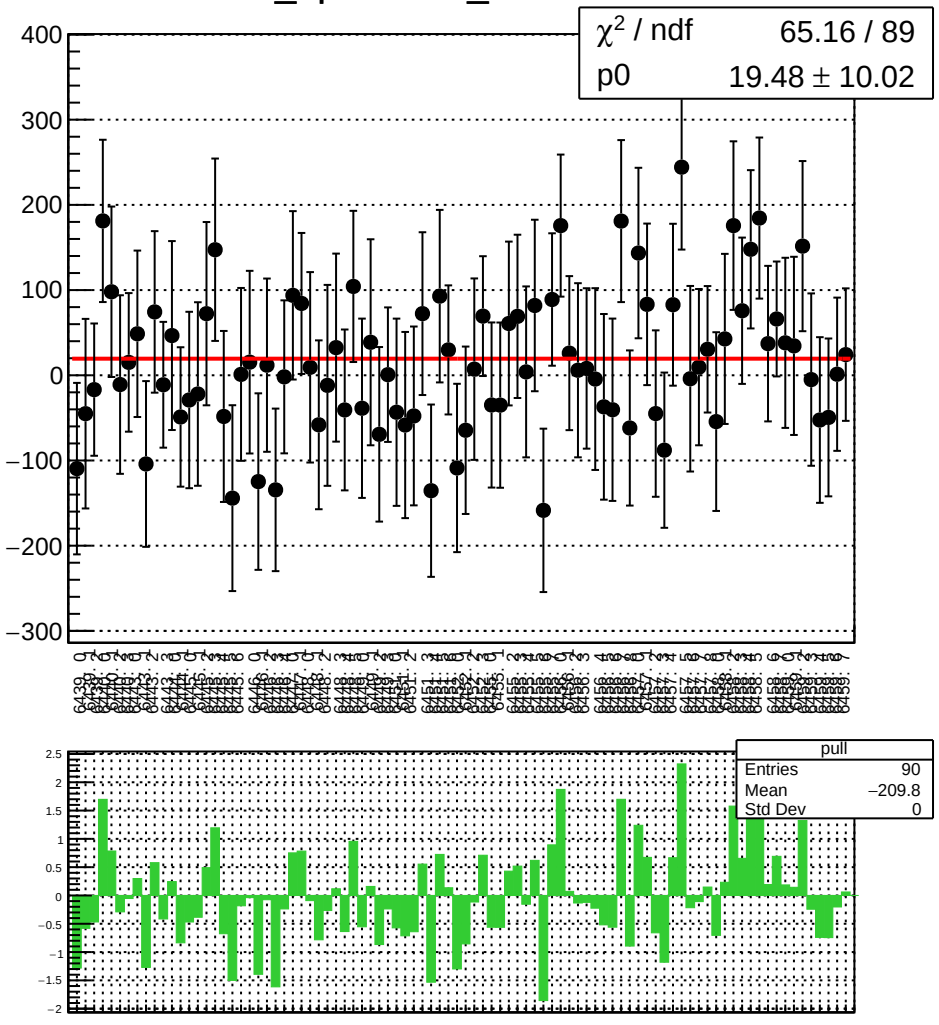

pull1D
Entries 90
Mean −0.01983
Std Dev 0.8517

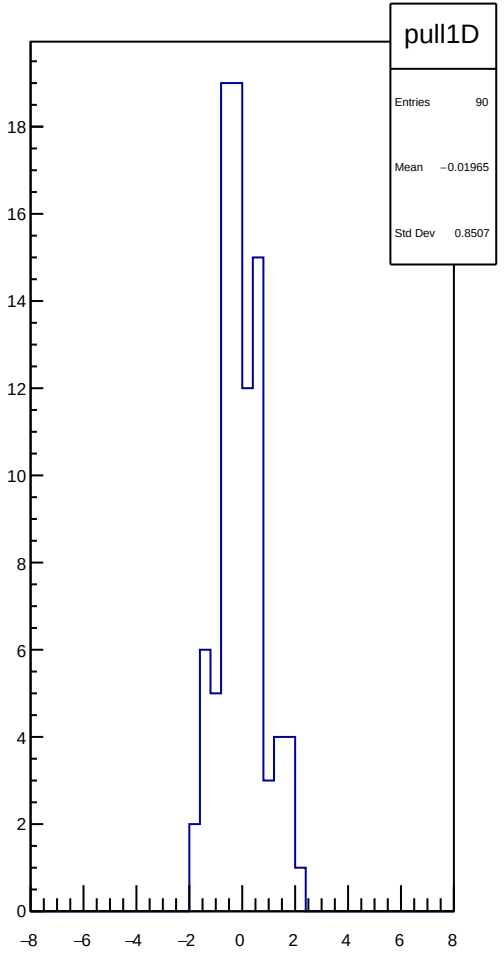

diff_bpm0l09X_rms vs run
χ² / ndf 8932 / 89
p0 9150 ± 6.872
11500
11000
10500
10000
9500
9000
8500
8000
7500

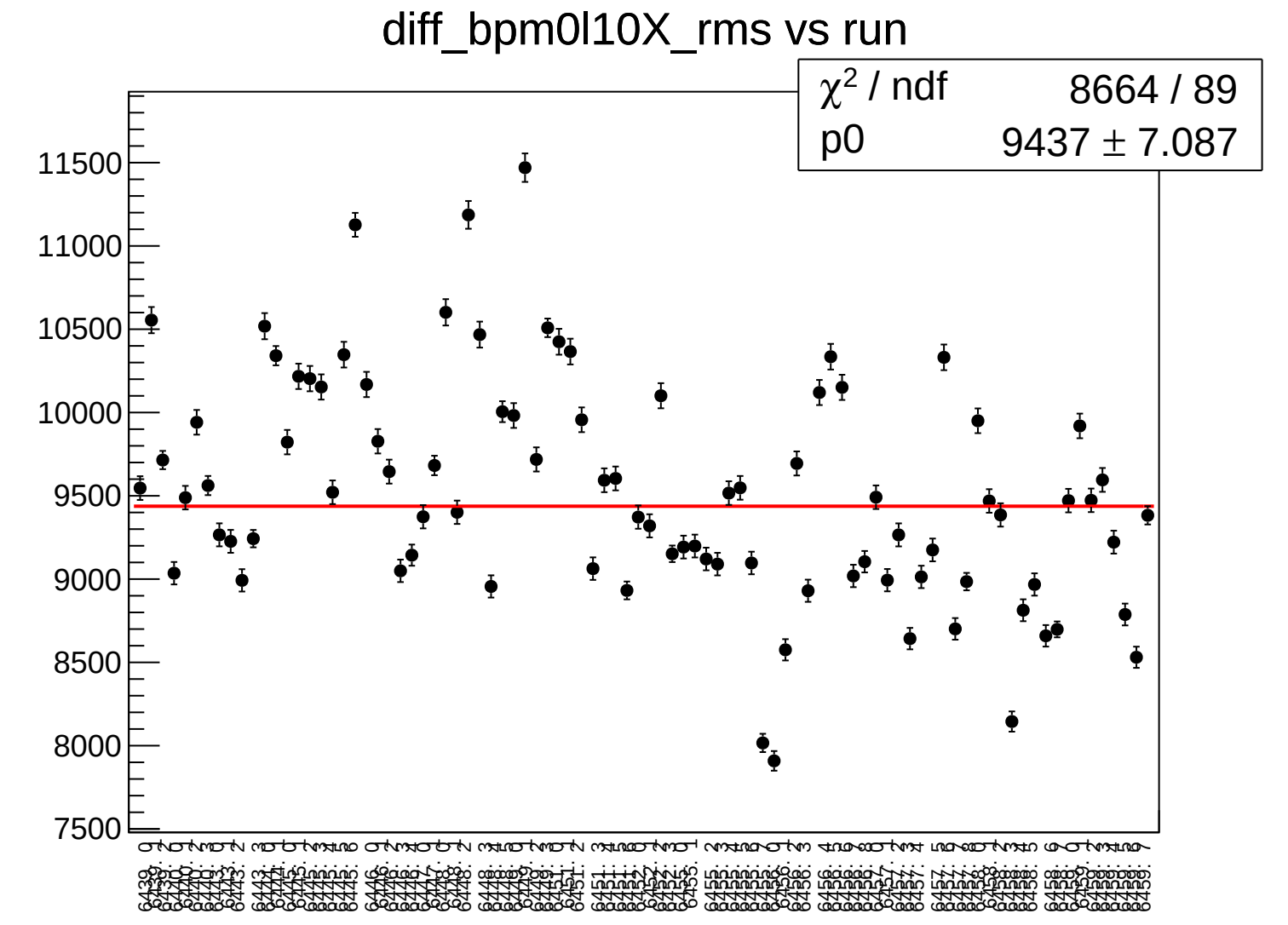

diff_bpm0l09Y_mean vs run
χ² / ndf 79.9 / 89
p0 −3.124 ± 1.048
pull
Entries 90
Mean 73.6
Std Dev 0

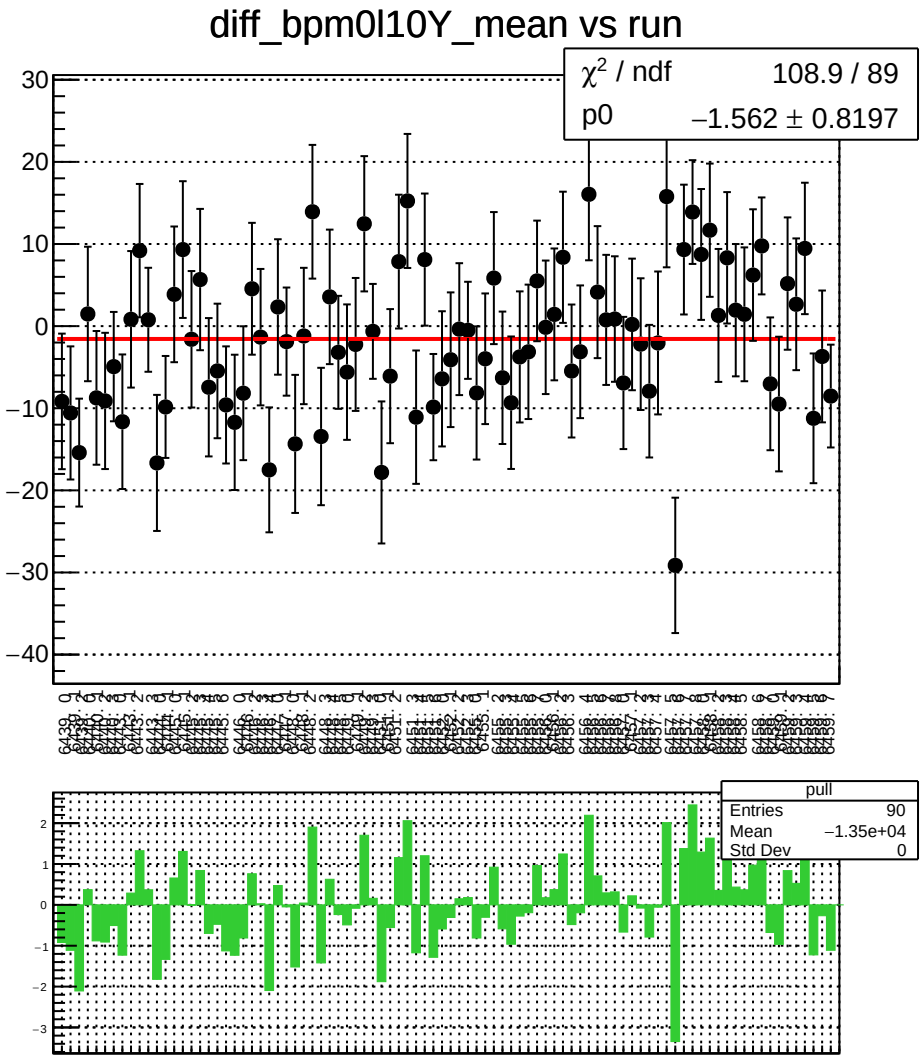

pull1D
Entries 90
Mean 0.01034
Std Dev 0.9422

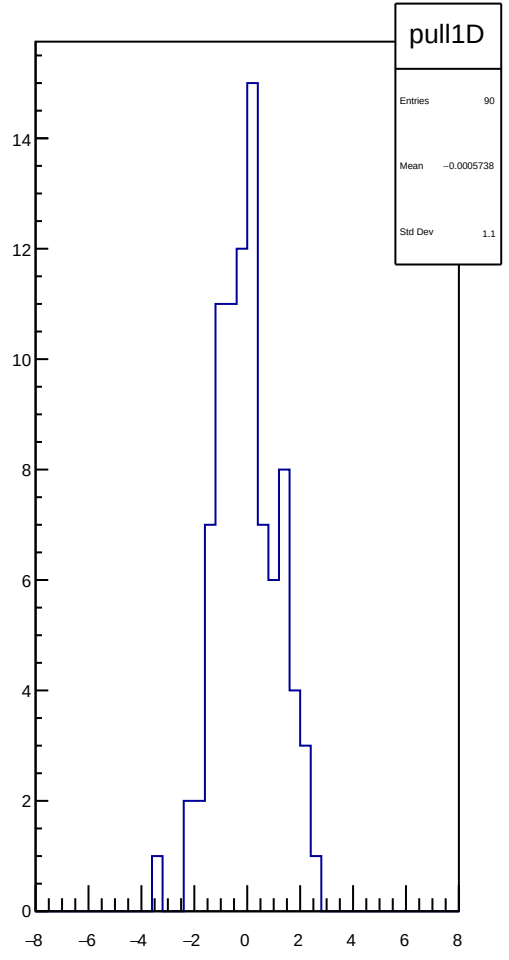

diff_bpm0l09Y_rms vs run
χ² / ndf 1662 / 89
p0 988.5 ± 0.7408
1080
1060
1040
1020
1000
980
960
940
920

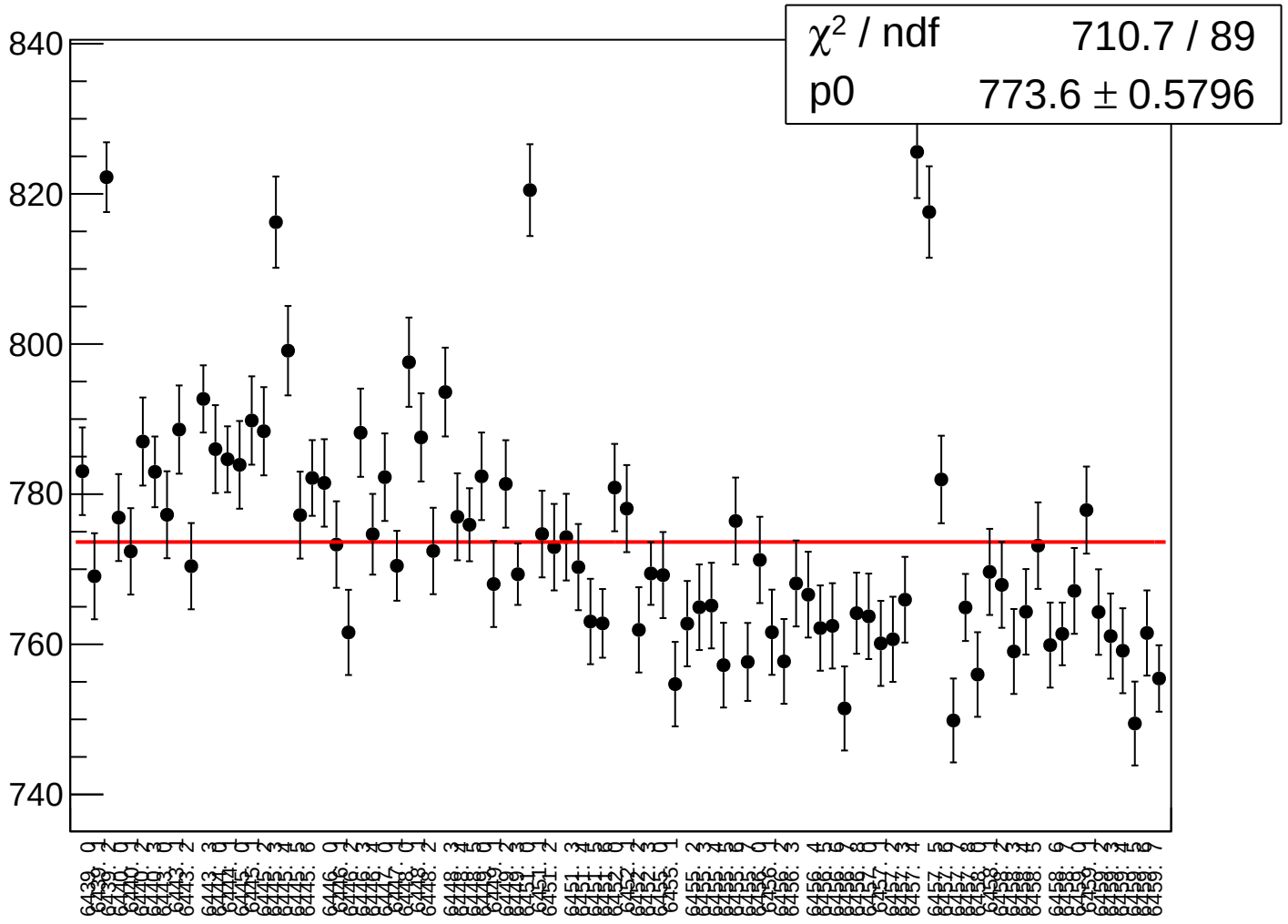

diff_bpm0l10X_mean vs run
χ^2 / ndf 65.16 / 89
p0 19.48 ± 10.02
pull
Entries 90
Mean −209.8
Std Dev 0

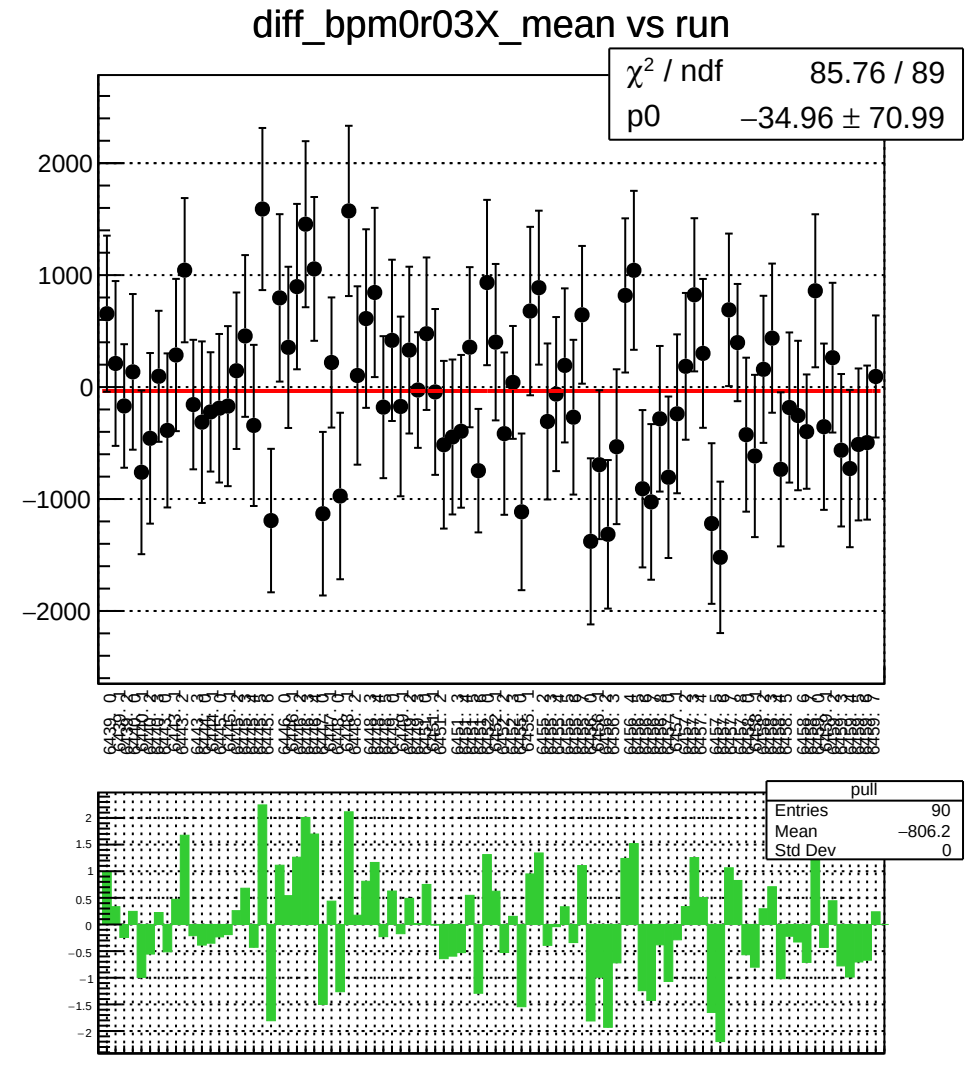

pull1D
Entries 90
Mean −0.01965
Std Dev 0.8507

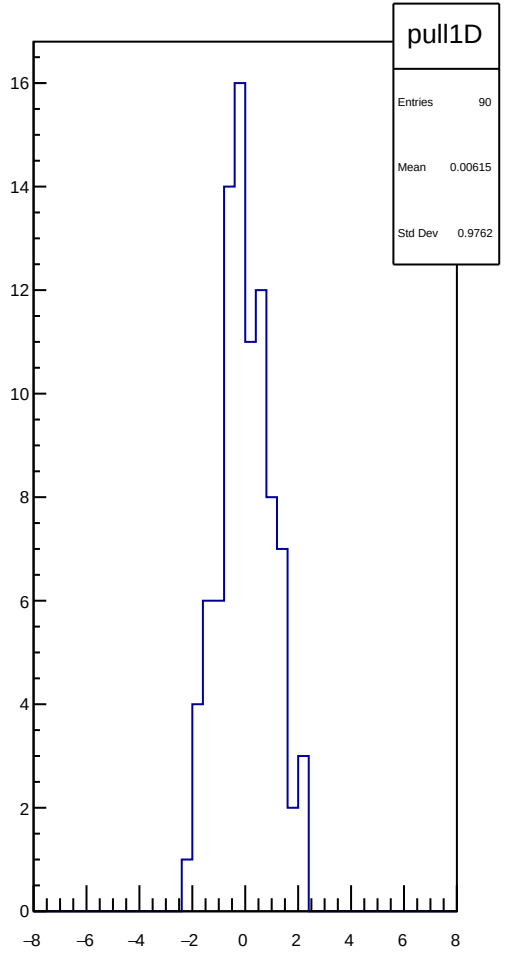

diff_bpm0l10X_rms vs run
χ² / ndf 8664 / 89
p0 9437 ± 7.087
11500
11000
10500
10000
9500
9000
8500
8000
7500

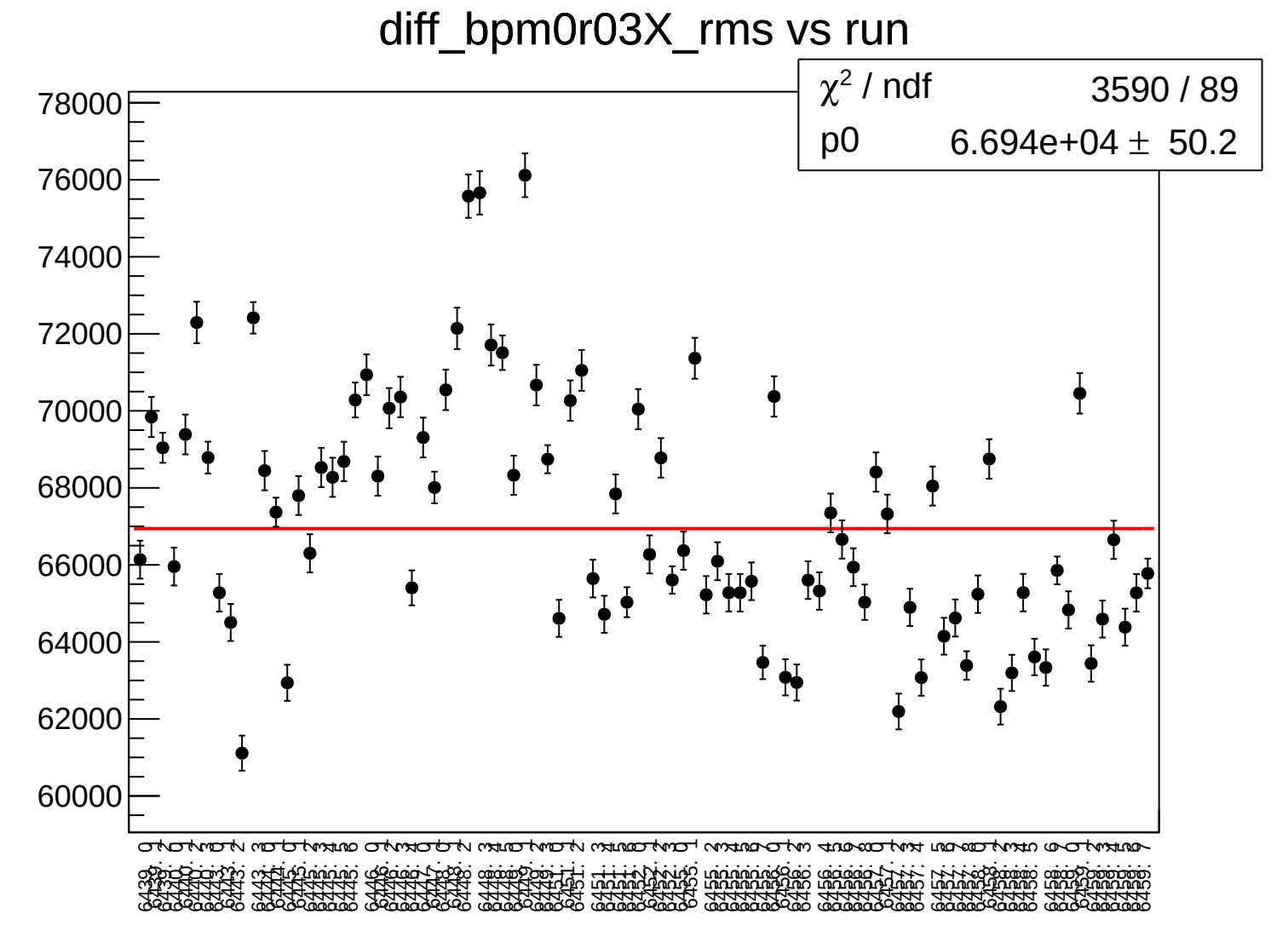

diff_bpm0l10Y_mean vs run
χ² / ndf 108.9 / 89
p0 −1.562 ± 0.8197
pull
Entries 90
Mean −1.35e+04
Std Dev 0

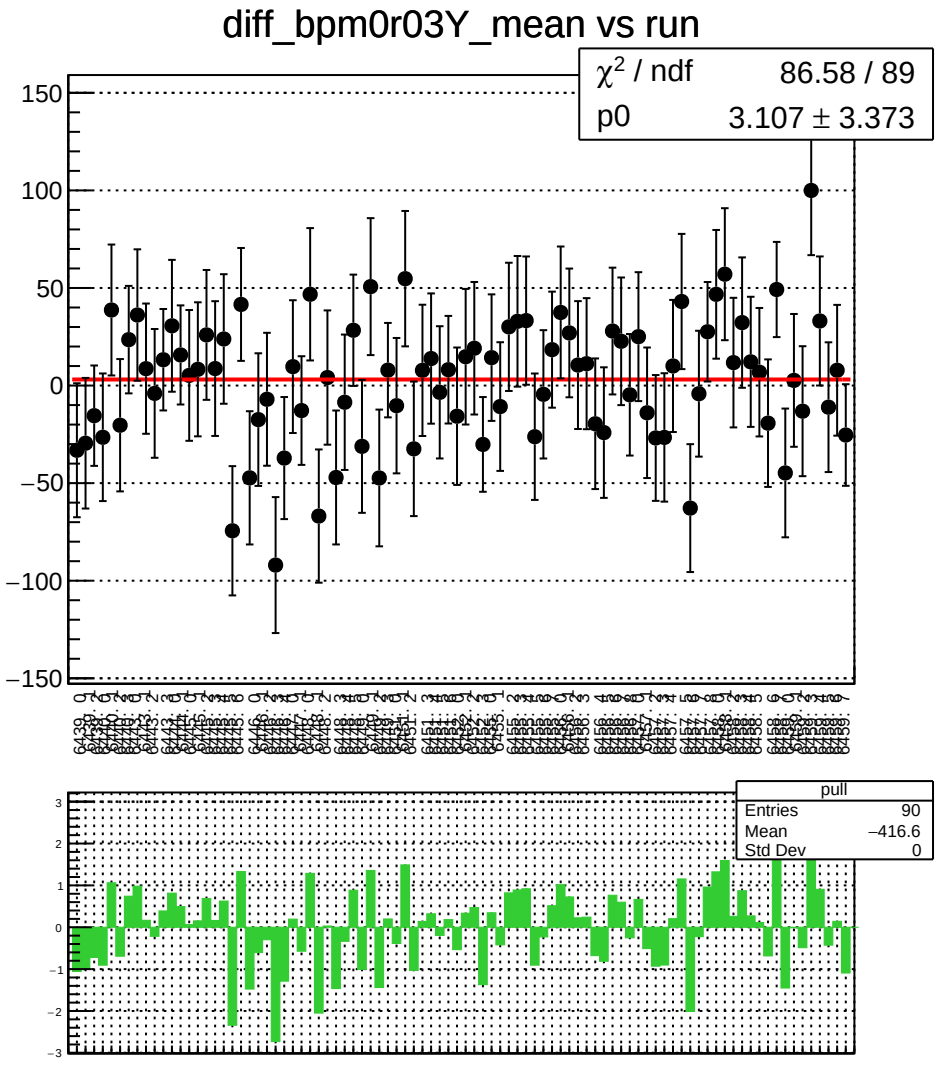

pull1D
Entries 90
Mean −0.0005738
Std Dev 1.1

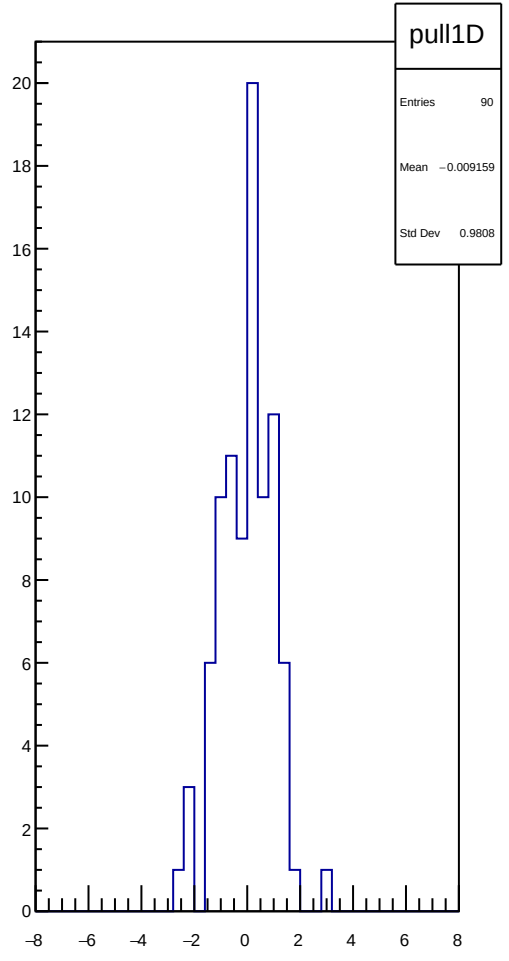

diff_bpm0l10Y_rms vs run
χ² / ndf 710.7 / 89
p0 773.6 ± 0.5796
840
820
800
780
760
740

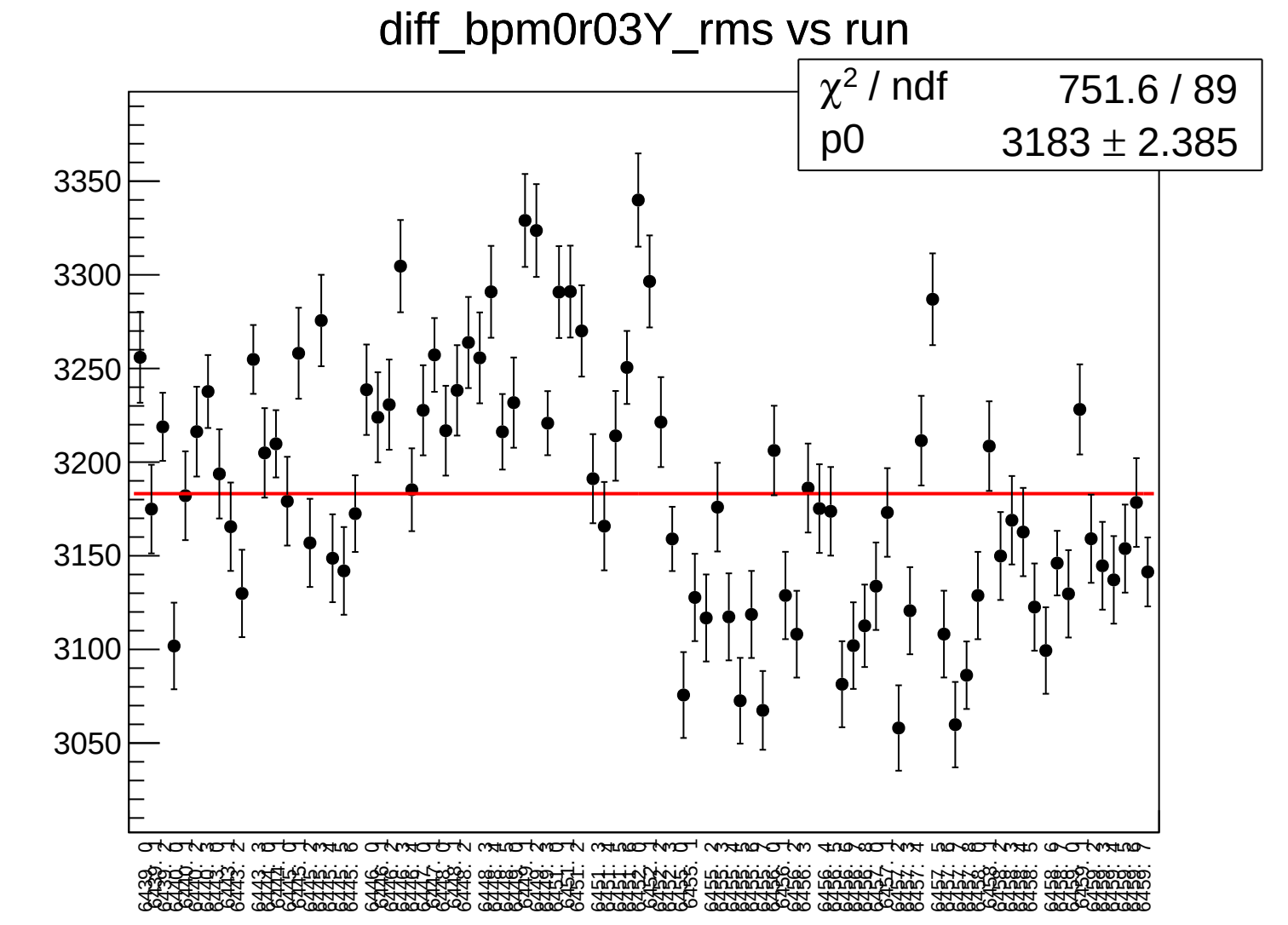

diff_bpm0r03X_mean vs run
χ² / ndf 85.76 / 89
p0 −34.96 ± 70.99
2000
1000
0
−1000
−2000
pull
Entries 90
Mean −806.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

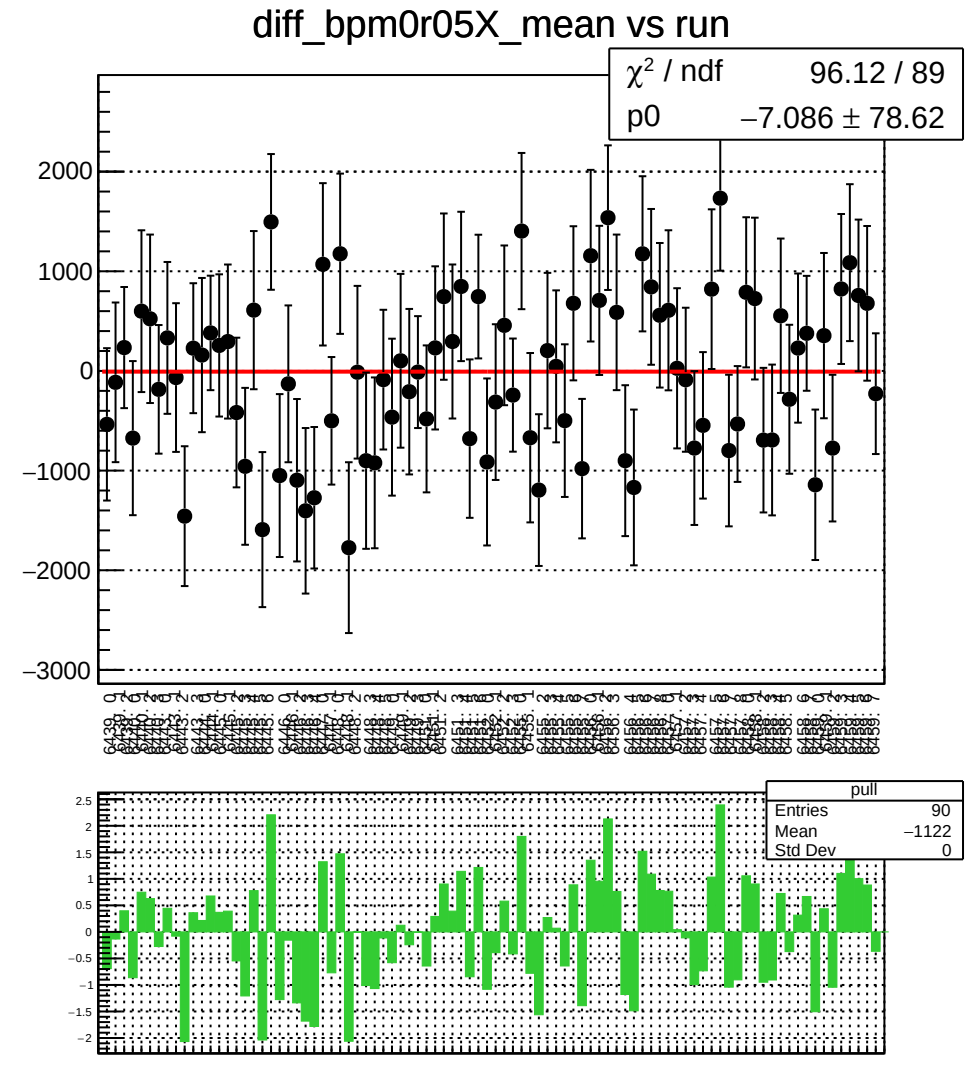

pull1D
Entries 90
Mean 0.00615
Std Dev 0.9762
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

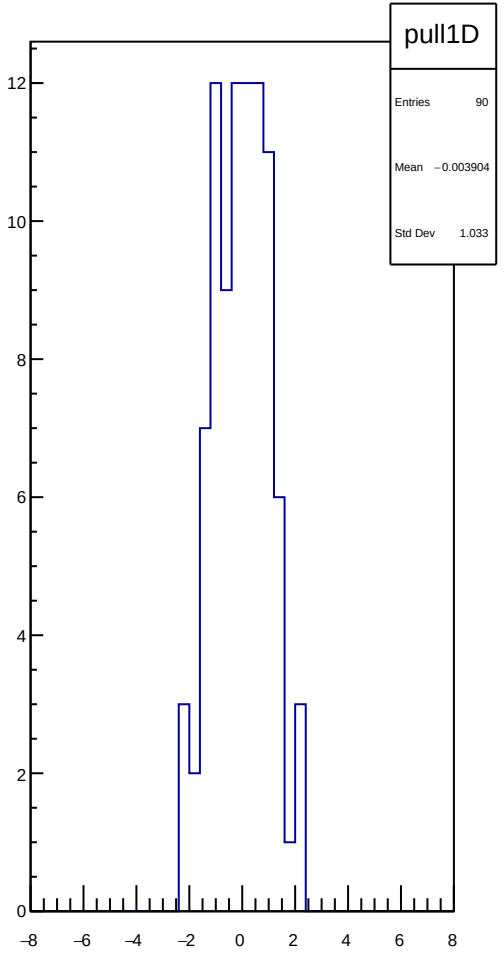

diff_bpm0r03X_rms vs run
χ² / ndf 3590 / 89
p0 6.694e+04 ± 50.2
78000
76000
74000
72000
70000
68000
66000
64000
62000
60000

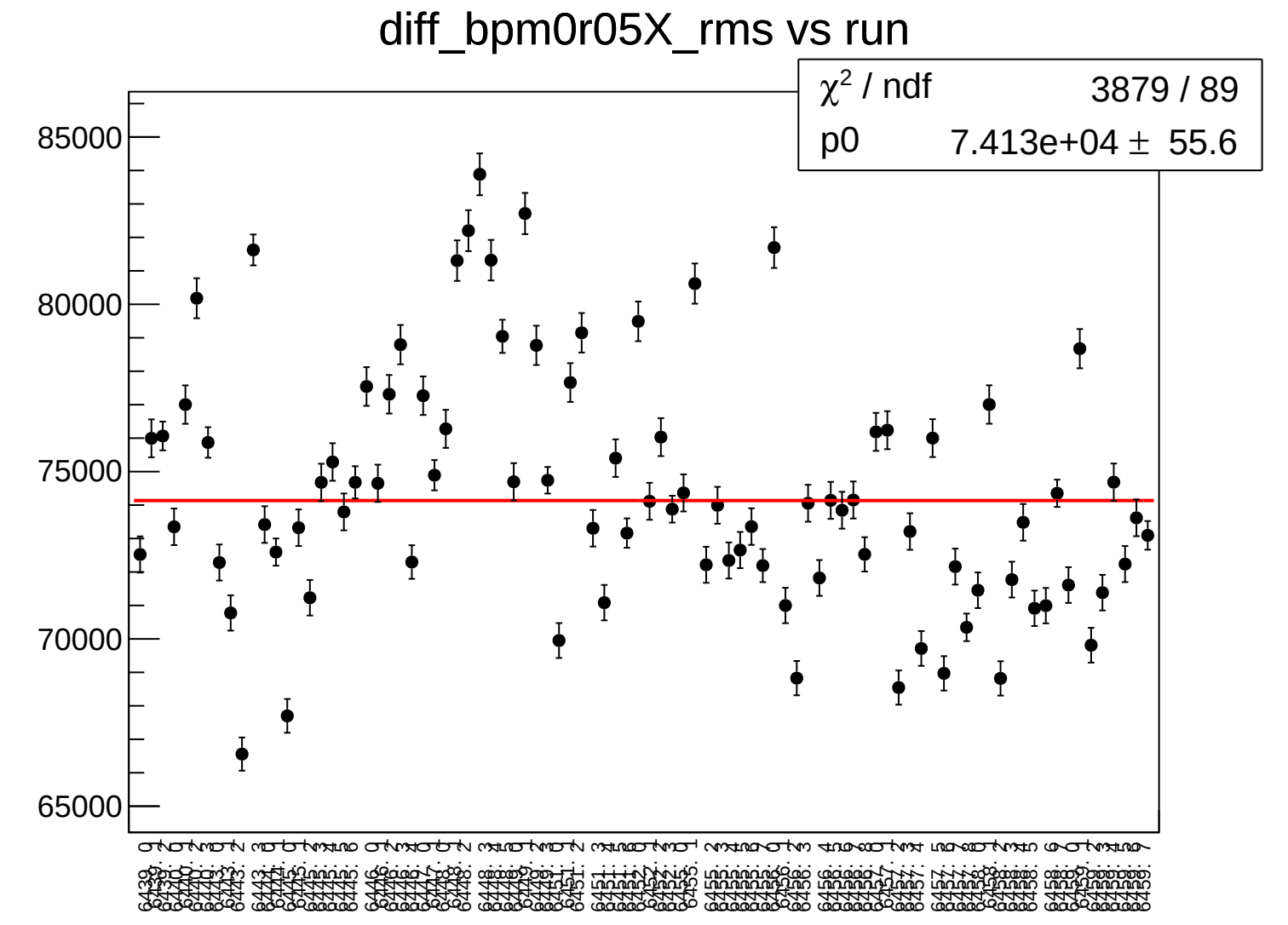

diff_bpm0r03Y_mean vs run
χ² / ndf 86.58 / 89
p0 3.107 ± 3.373
150
100
50
0
−50
−100
−150
pull
Entries 90
Mean −416.6
Std Dev 0
3
2
1
0
−1
−2
−3

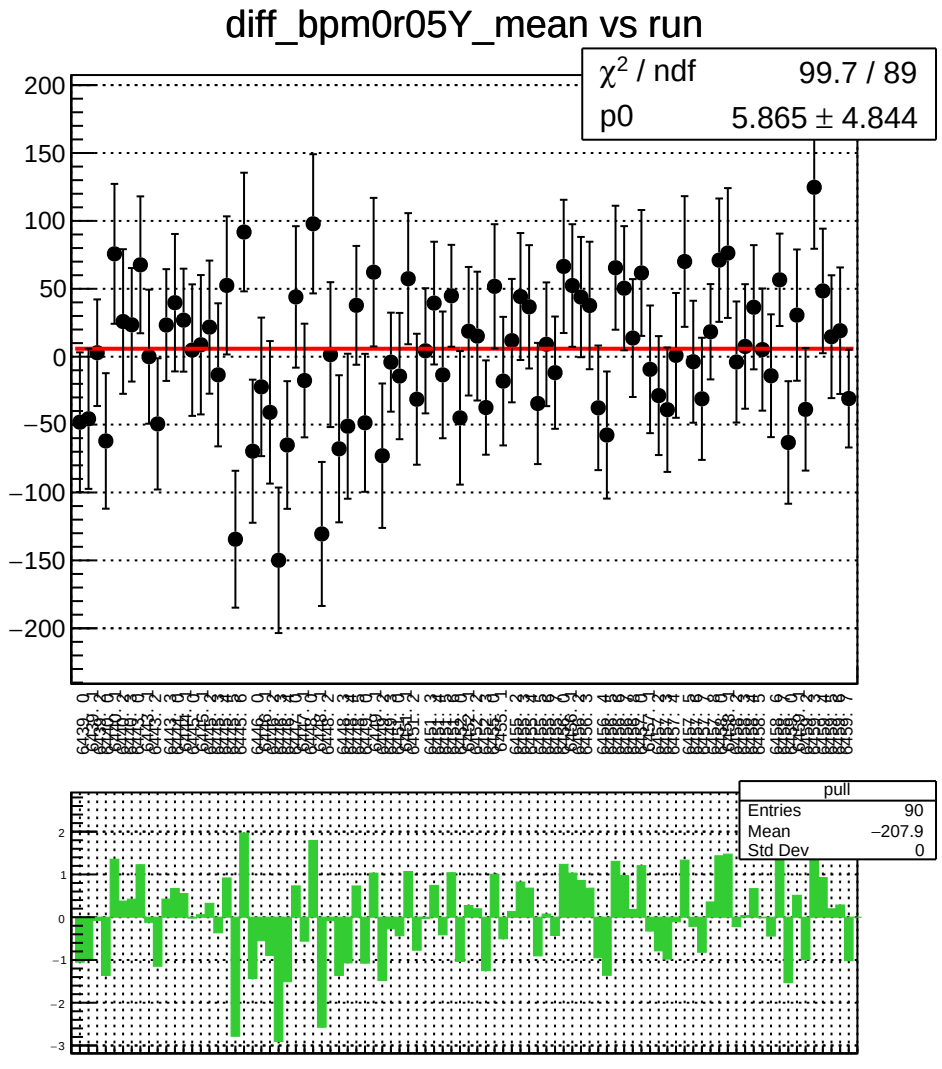

pull1D
Entries 90
Mean −0.009159
Std Dev 0.9808
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

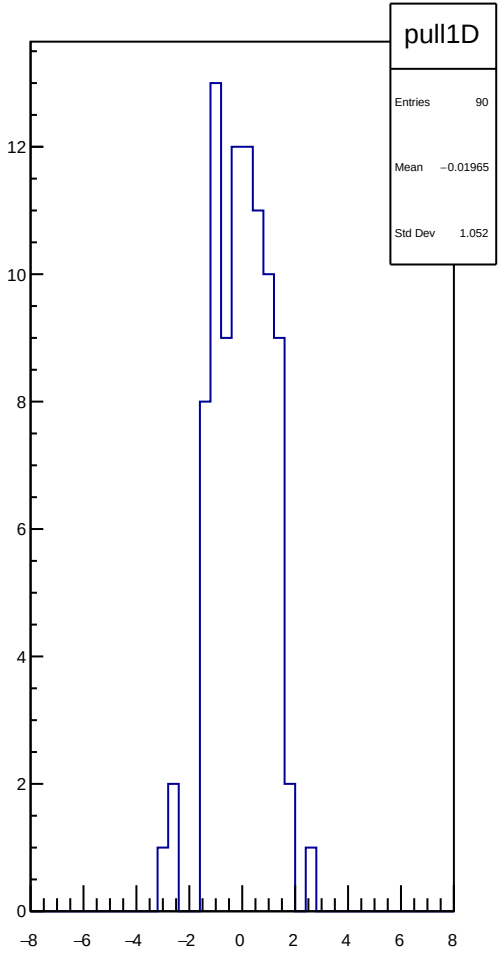

diff_bpm0r03Y_rms vs run
χ² / ndf 751.6 / 89
p0 3183 ± 2.385
3350
3300
3250
3200
3150
3100
3050

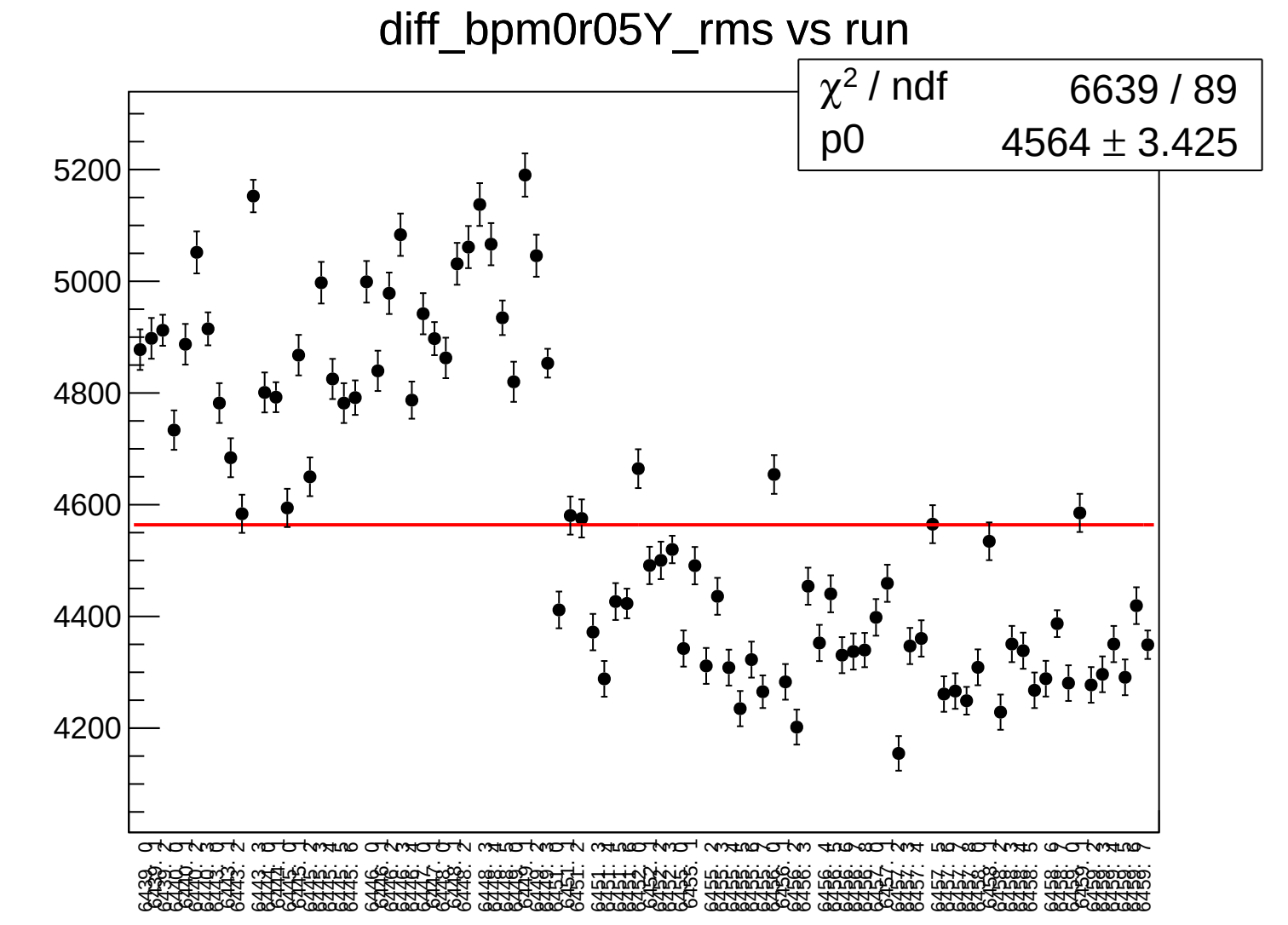

diff_bpm0r05X_mean vs run
χ² / ndf 96.12 / 89
p0 −7.086 ± 78.62
2000
1000
0
−1000
−2000
−3000
pull
Entries 90
Mean −1122
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

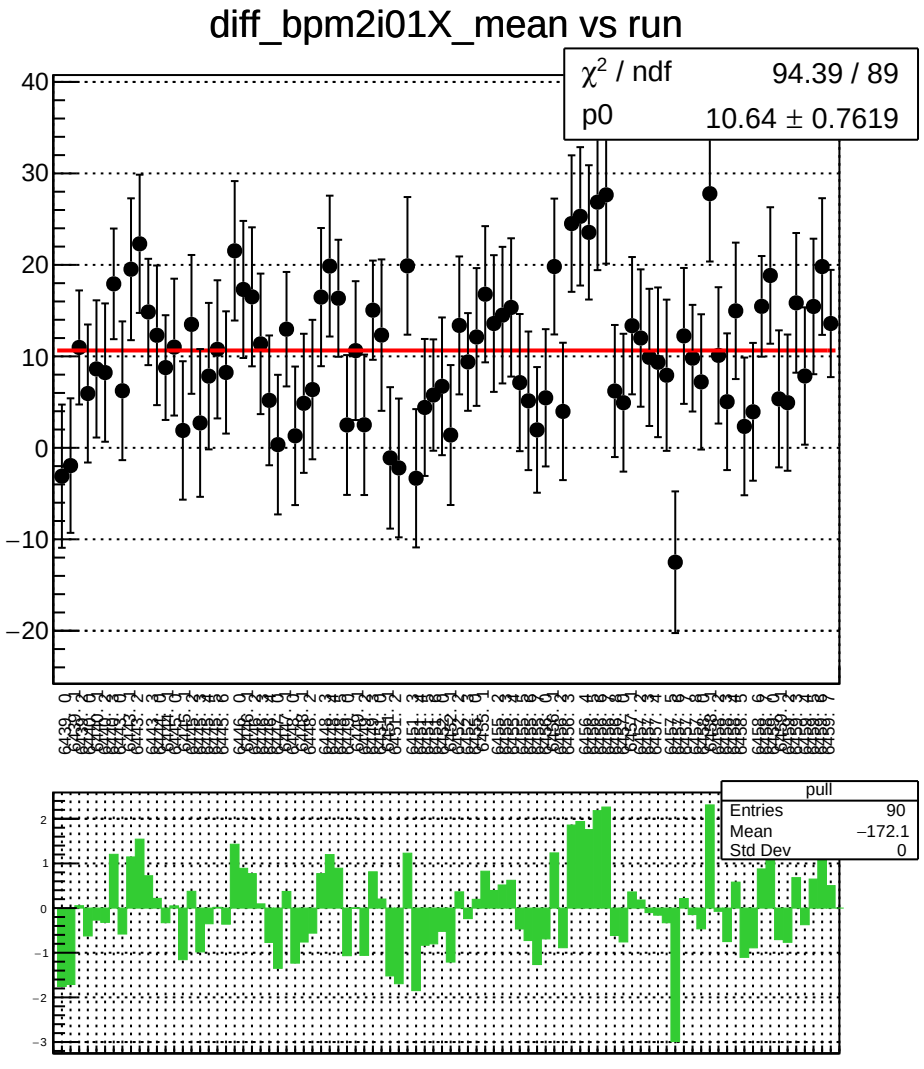

pull1D
Entries 90
Mean −0.003904
Std Dev 1.033
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

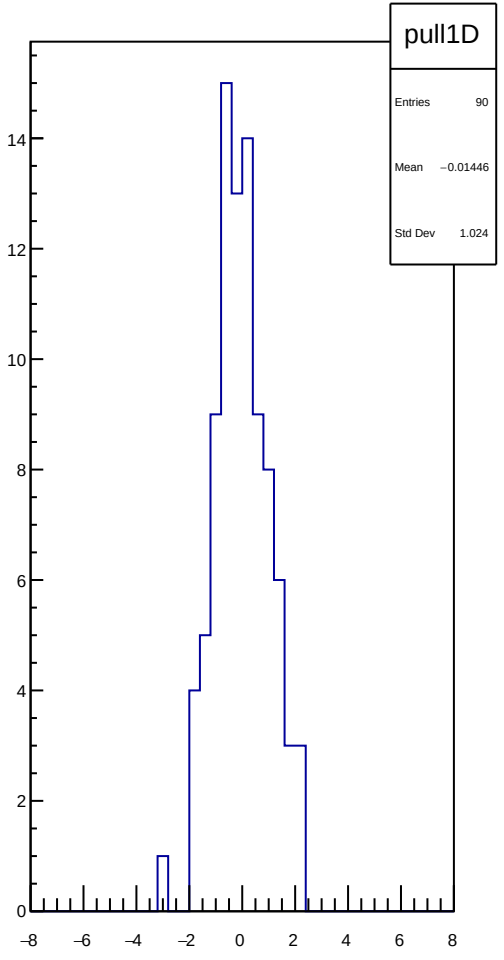

diff_bpm0r05X_rms vs run
χ² / ndf 3879 / 89
p0 7.413e+04 ± 55.6
85000
80000
75000
70000
65000

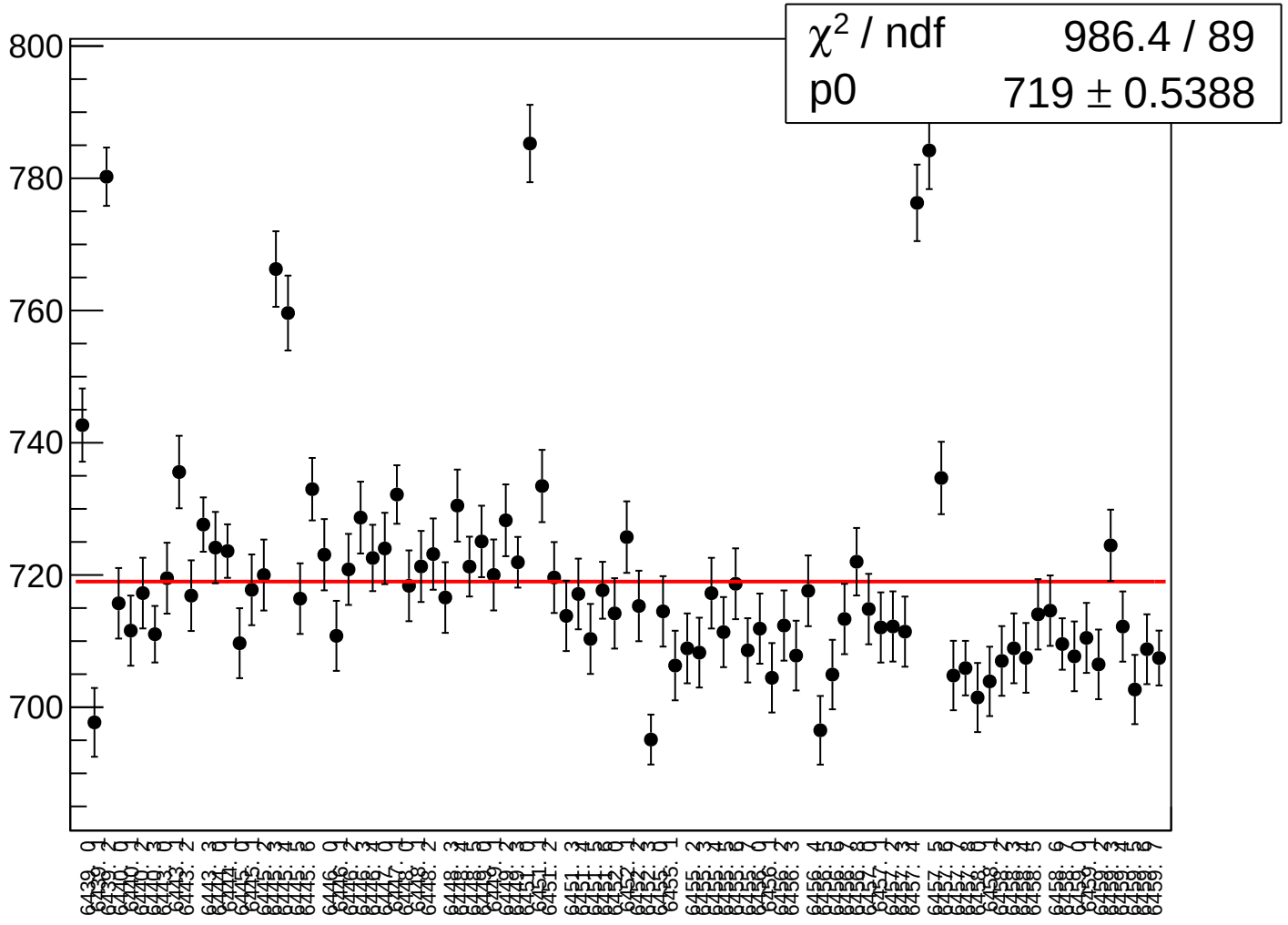

diff_bpm0r05Y_mean vs run
χ^2 / ndf 99.7 / 89
p0 5.865 ± 4.844
pull
Entries 90
Mean −207.9
Std Dev 0

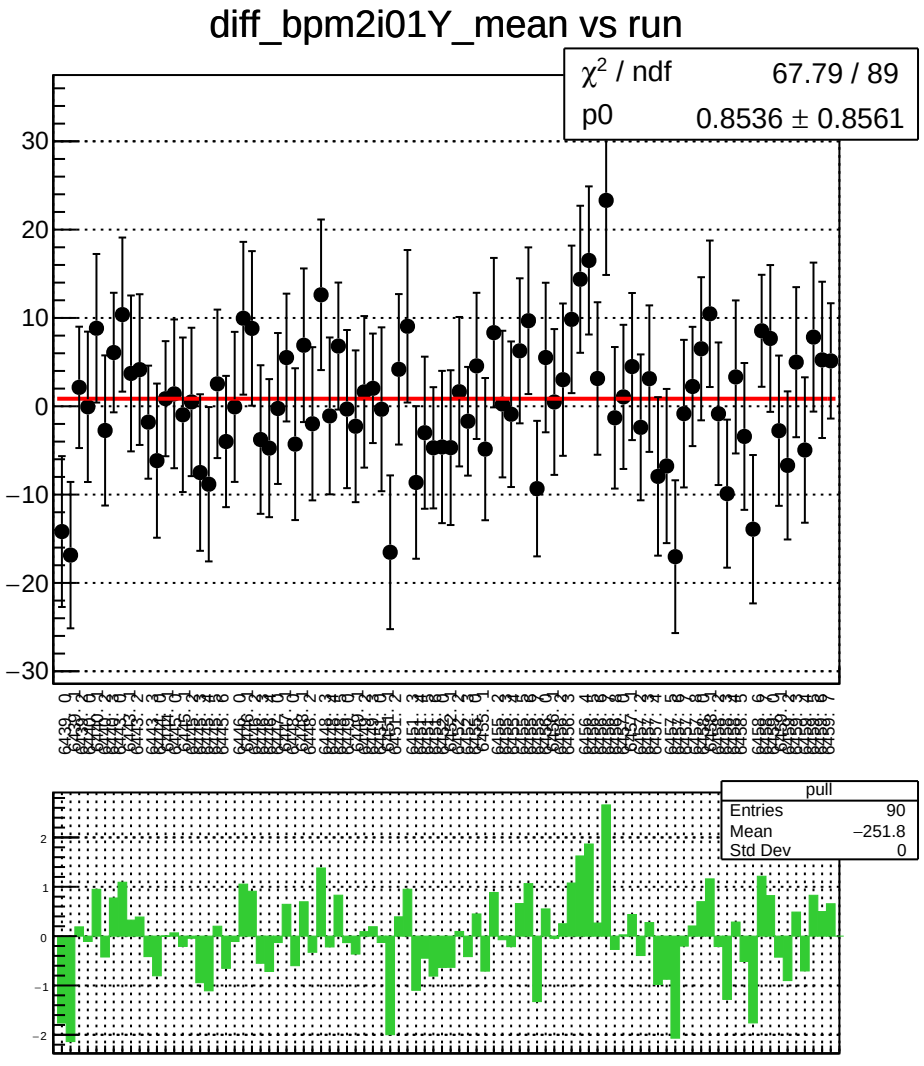

pull1D
Entries 90
Mean −0.01965
Std Dev 1.052

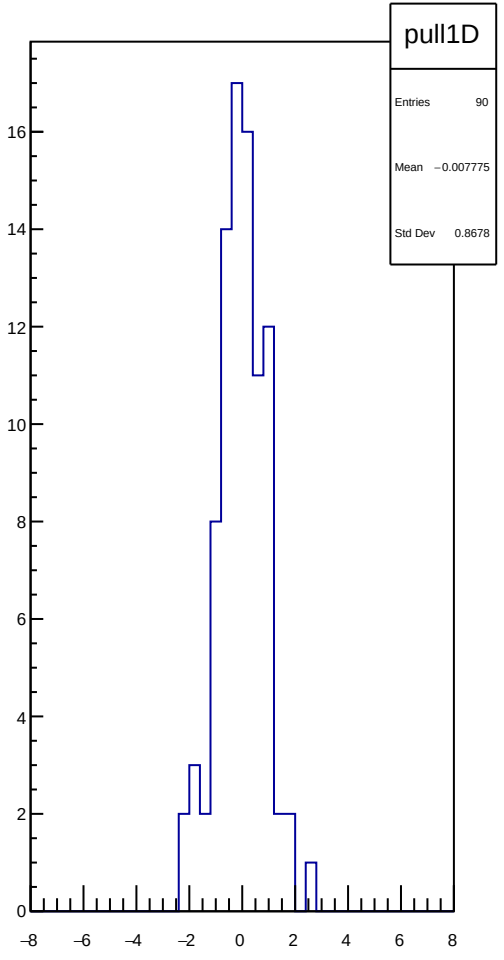

diff_bpm0r05Y_rms vs run
χ² / ndf 6639 / 89
p0 4564 ± 3.425
5200
5000
4800
4600
4400
4200

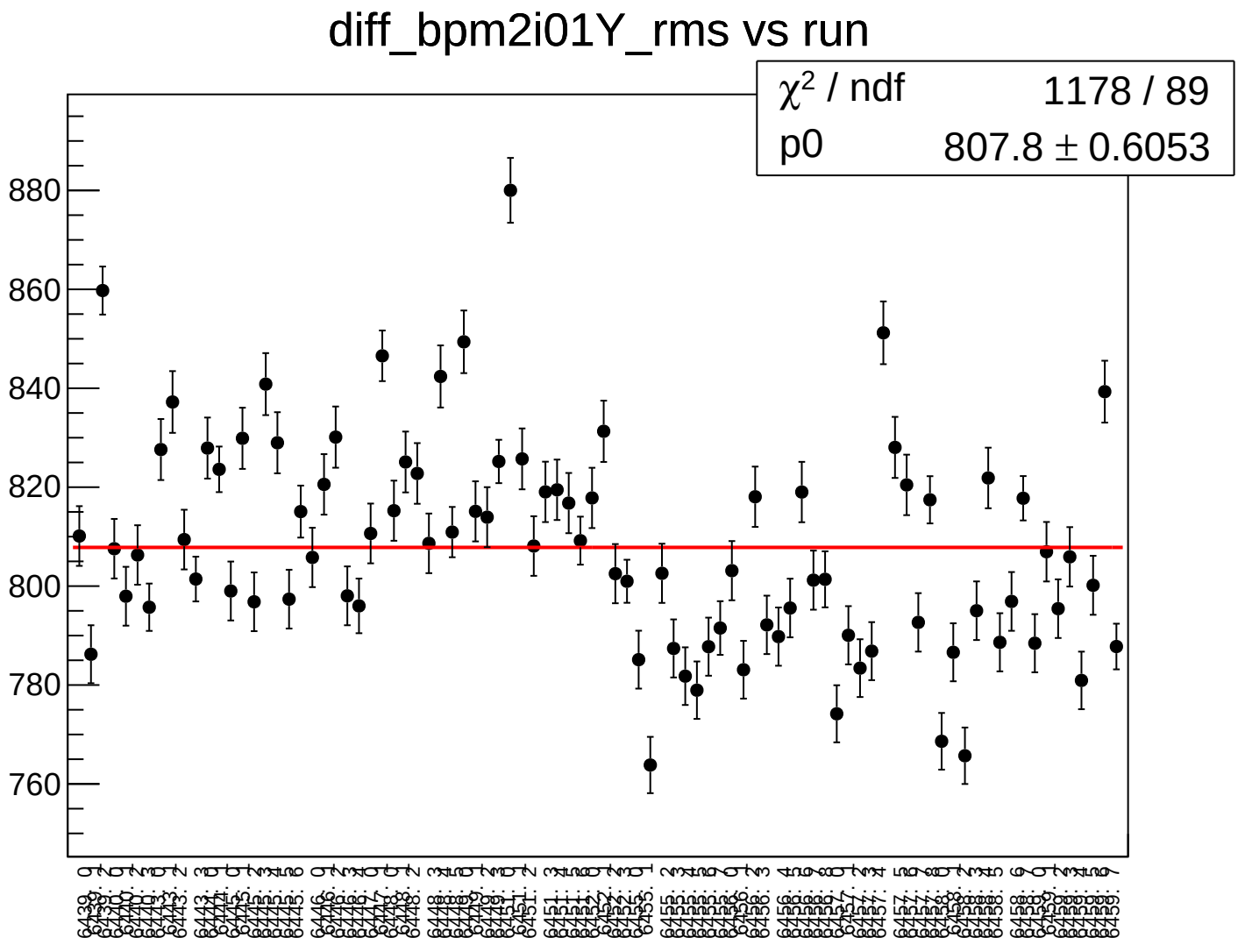

diff_bpm2i01X_mean vs run
χ² / ndf 94.39 / 89
p0 10.64 ± 0.7619
pull
Entries 90
Mean −172.1
Std Dev 0

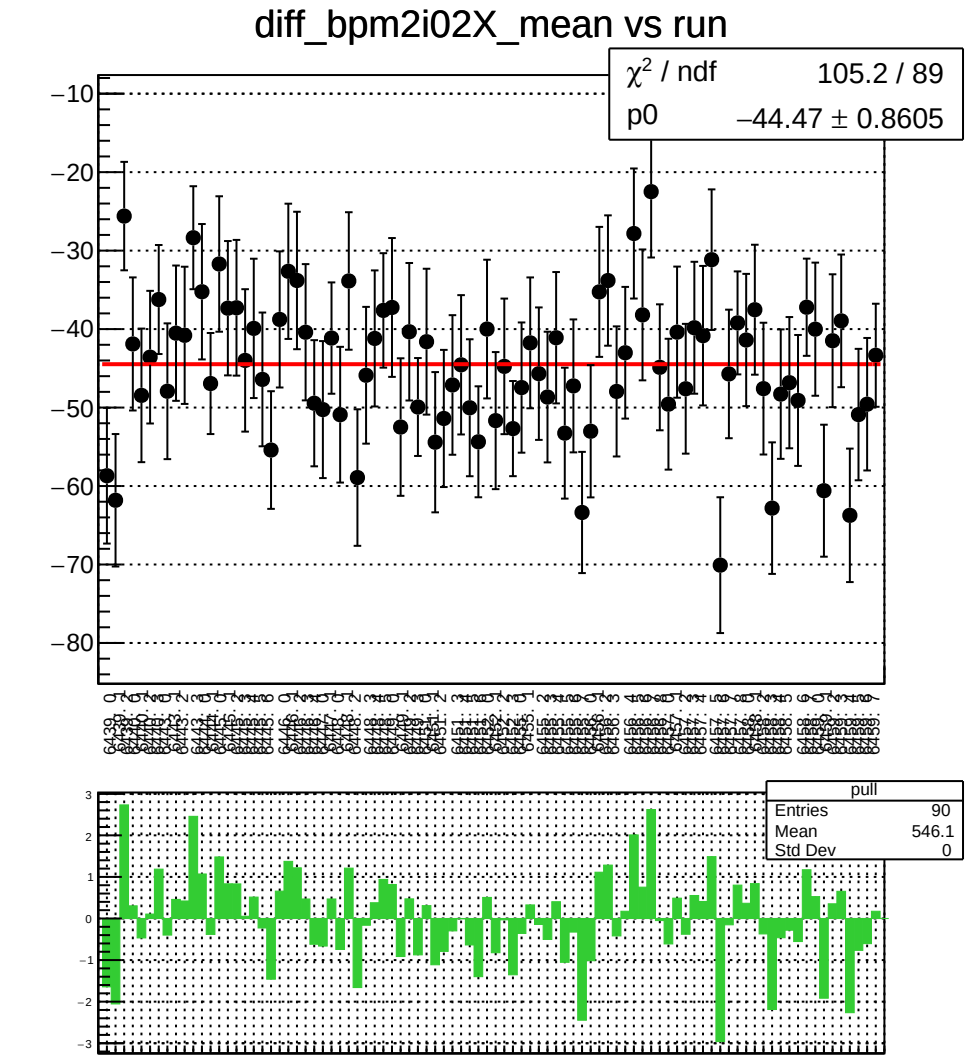

pull1D
Entries 90
Mean −0.01446
Std Dev 1.024

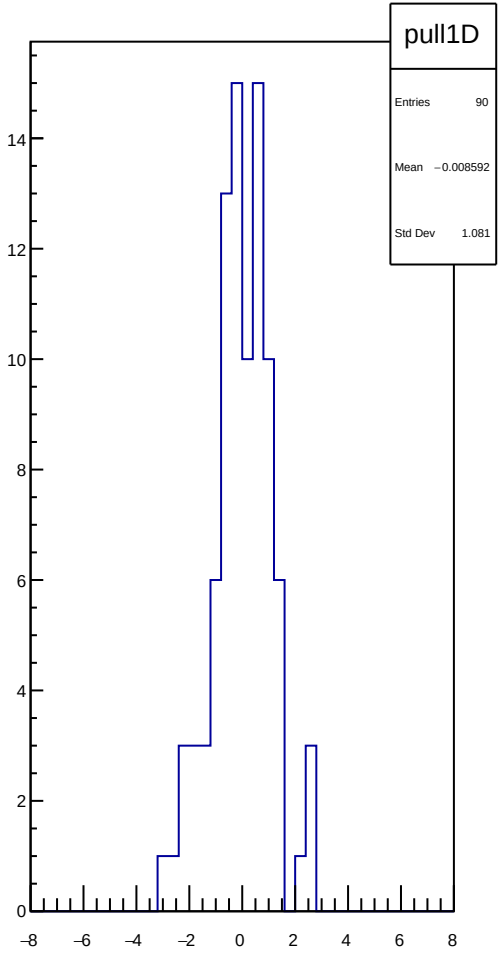

diff_bpm2i01X_rms vs run
χ² / ndf 986.4 / 89
p0 719 ± 0.5388
800
780
760
740
720
700

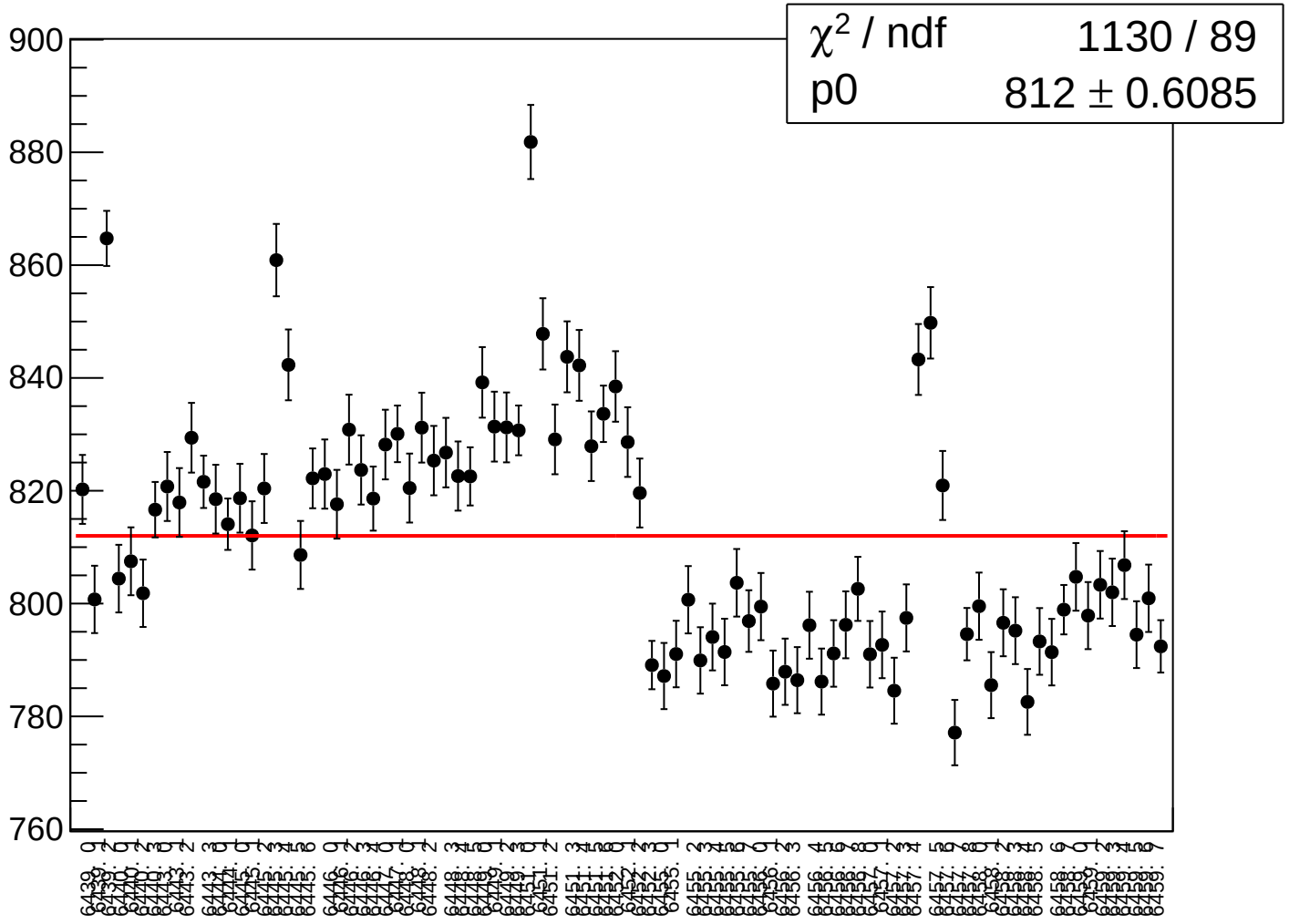

diff_bpm2i01Y_mean vs run
χ² / ndf 67.79 / 89
p0 0.8536 ± 0.8561
pull
Entries 90
Mean −251.8
Std Dev 0

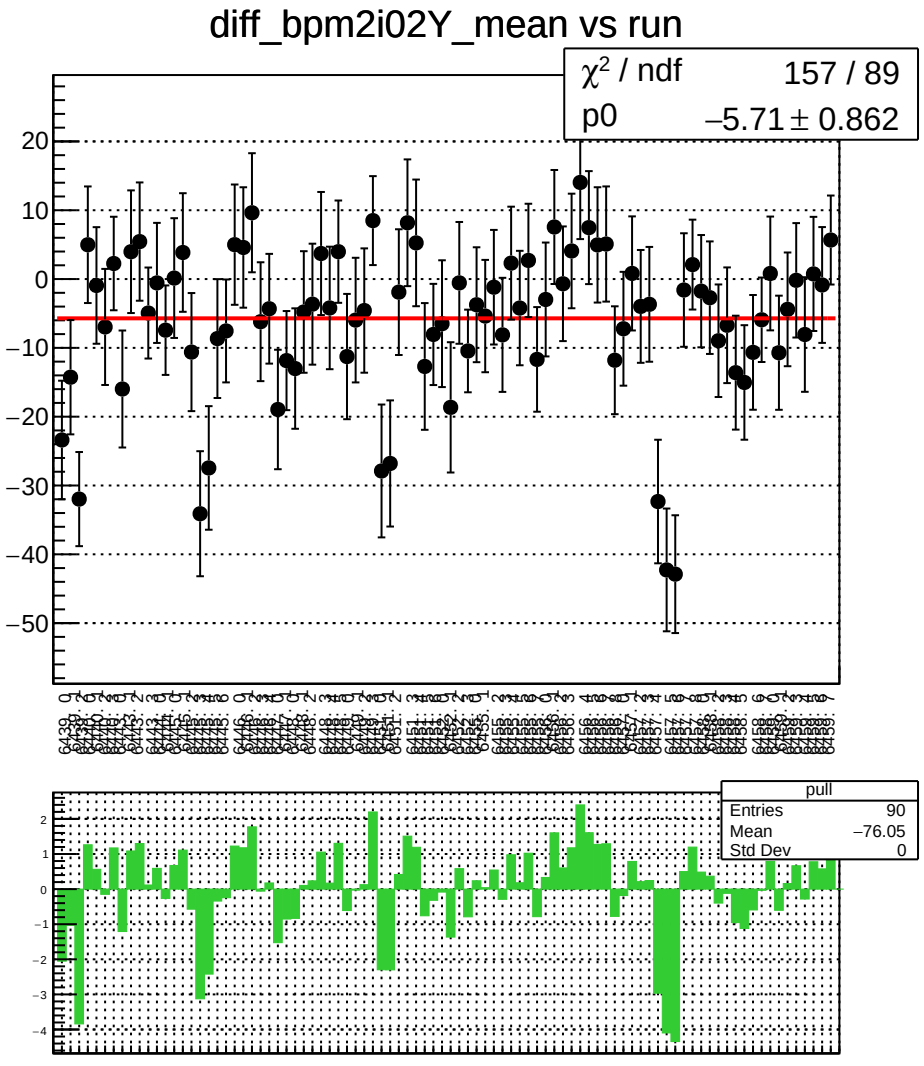

pull1D
Entries 90
Mean −0.007775
Std Dev 0.8678

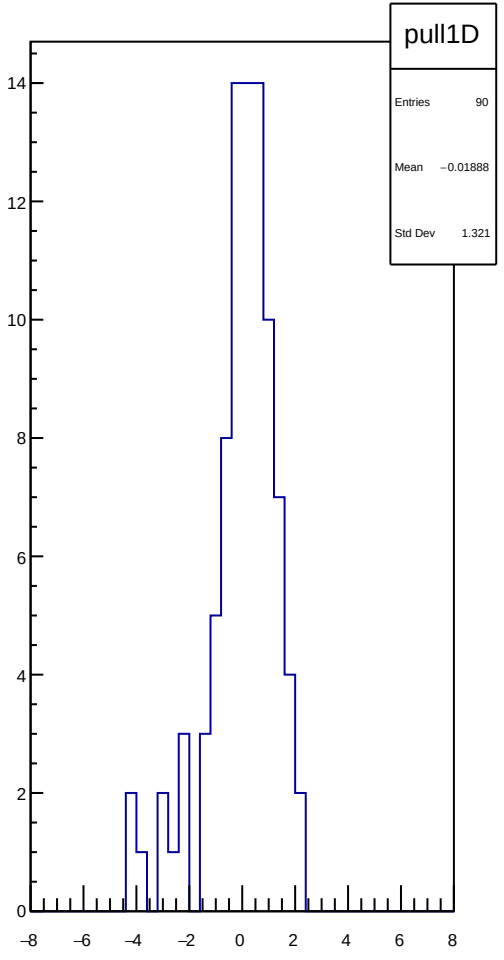

diff_bpm2i01Y_rms vs run
χ² / ndf 1178 / 89
p0 807.8 ± 0.6053
880
860
840
820
800
780
760

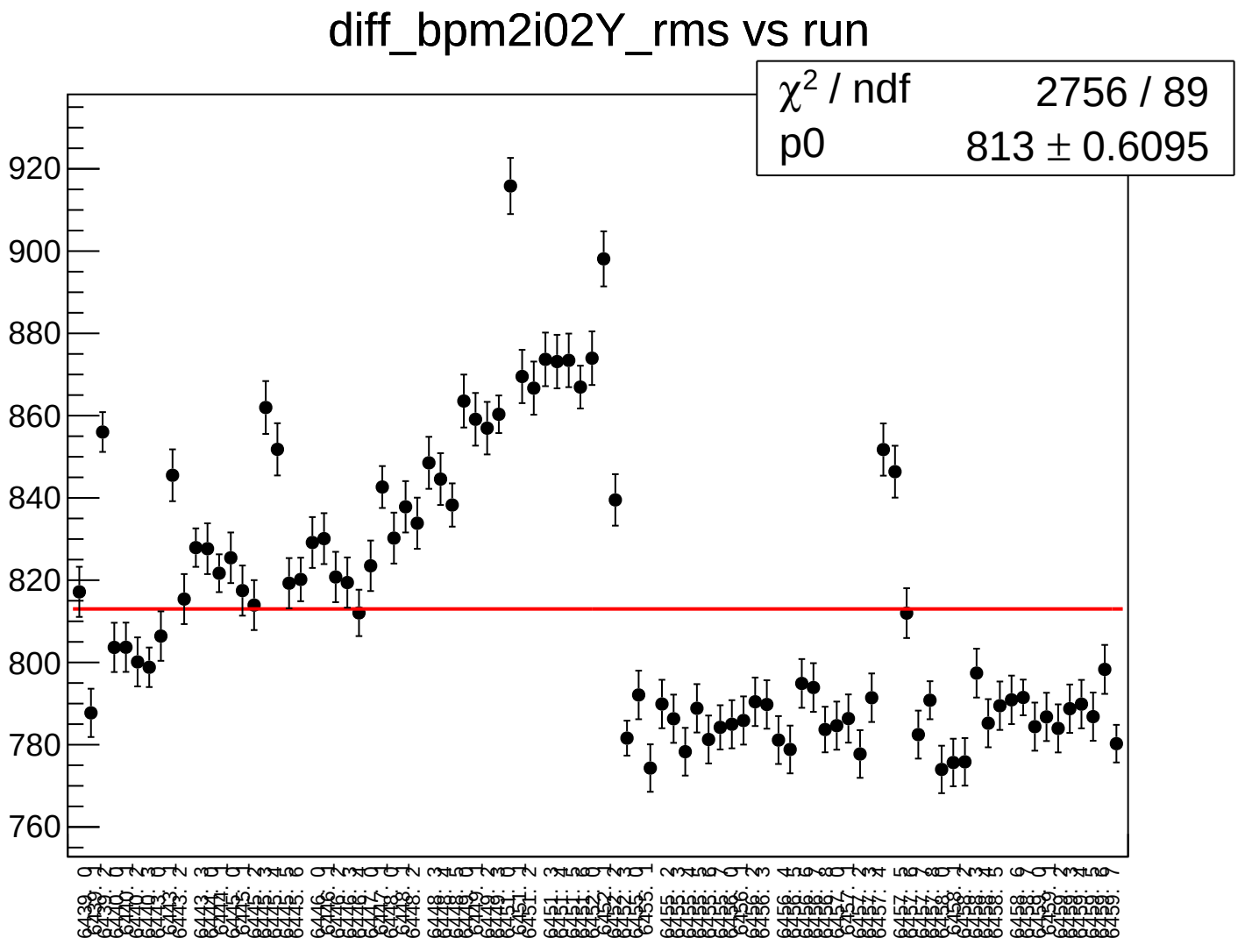

diff_bpm2i02X_mean vs run
χ² / ndf 105.2 / 89
p0 −44.47 ± 0.8605
pull
Entries 90
Mean 546.1
Std Dev 0

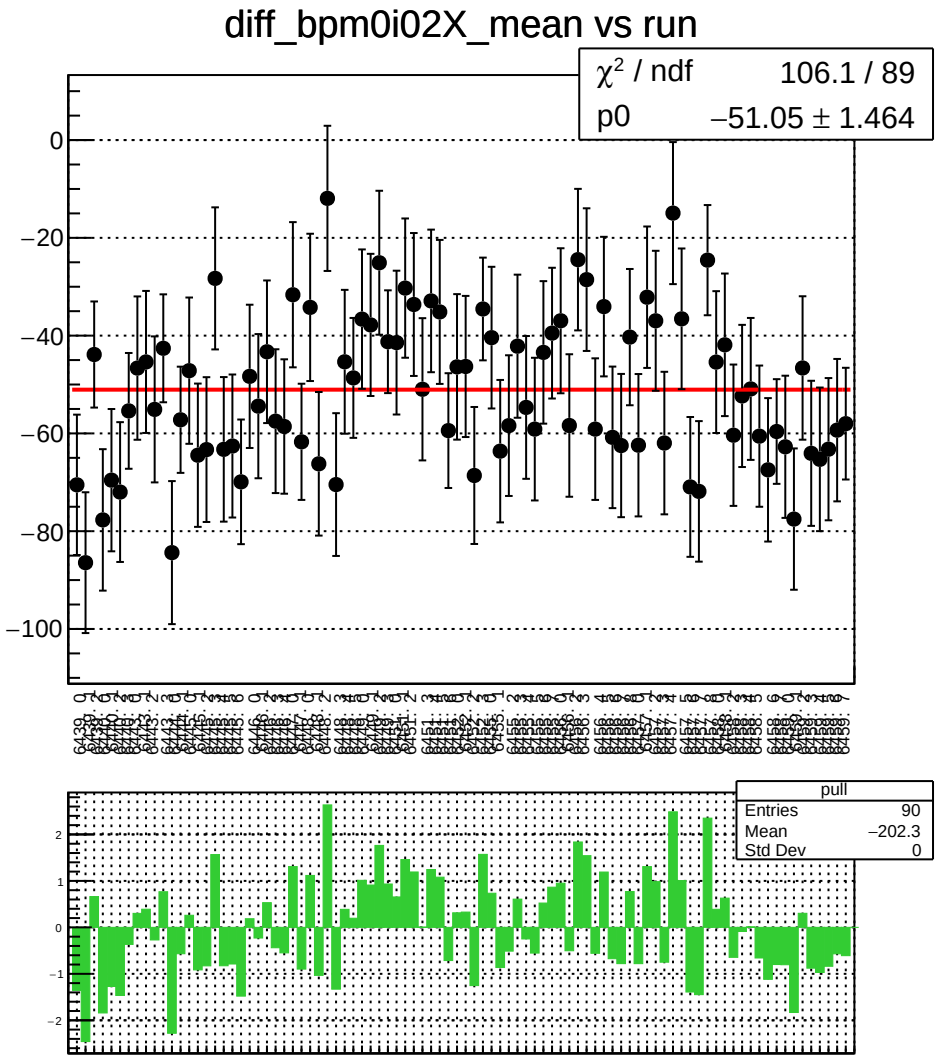

pull1D
Entries 90
Mean −0.008592
Std Dev 1.081

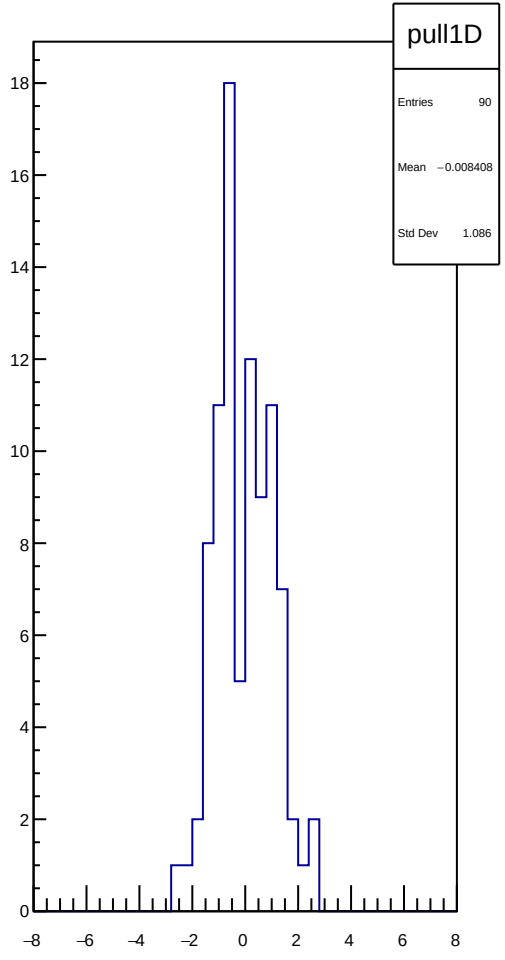

diff_bpm2i02X_rms vs run
χ² / ndf 1130 / 89
p0 812 ± 0.6085
900
880
860
840
820
800
780
760

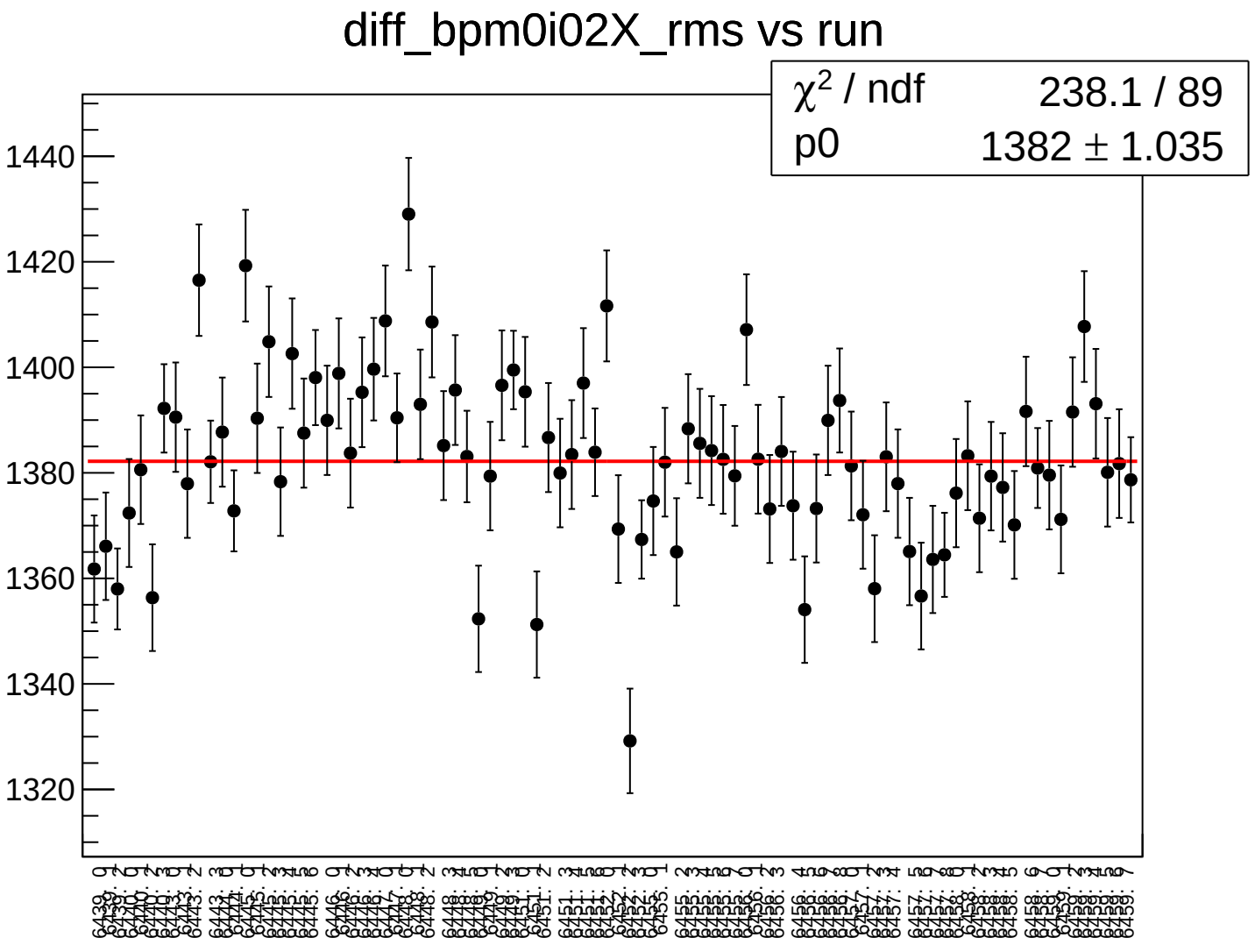

diff_bpm2i02Y_mean vs run
χ² / ndf 157 / 89
p0 −5.71 ± 0.862
pull
Entries 90
Mean −76.05
Std Dev 0

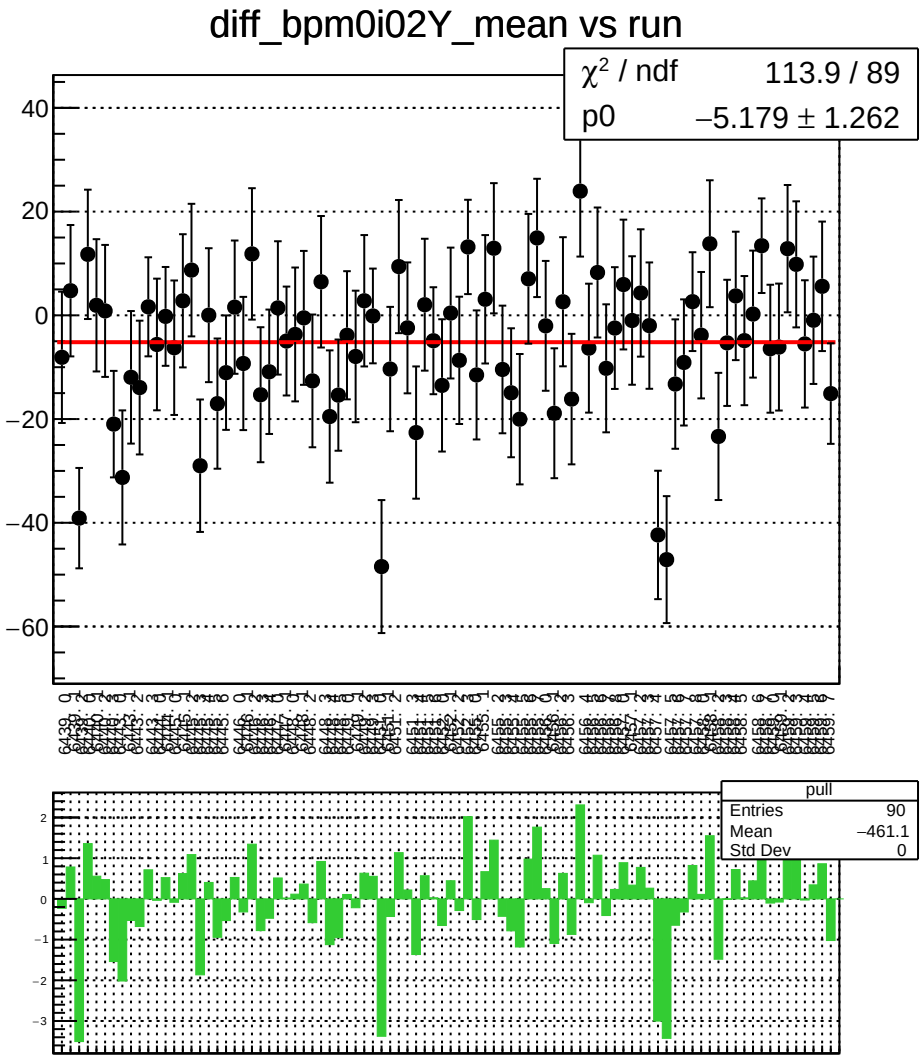

pull1D
Entries 90
Mean −0.01888
Std Dev 1.321

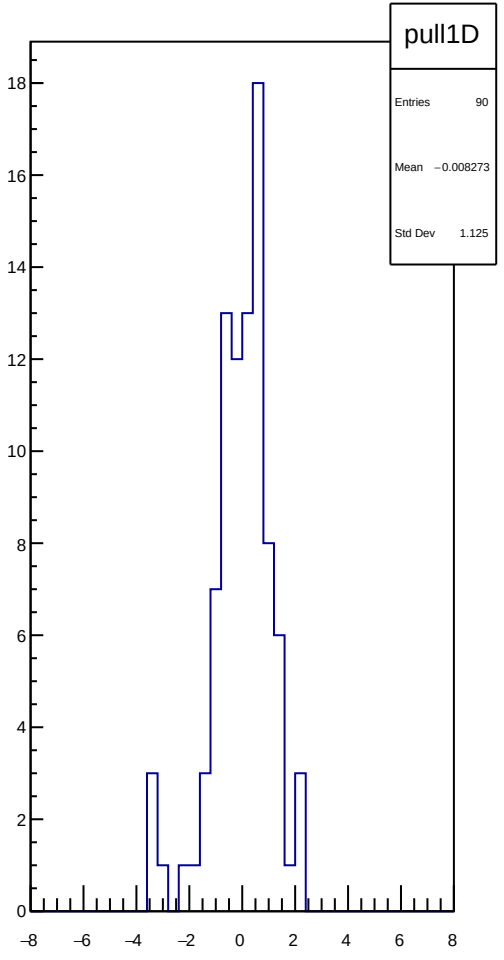

diff_bpm2i02Y_rms vs run
χ² / ndf 2756 / 89
p0 813 ± 0.6095
920
900
880
860
840
820
800
780
760

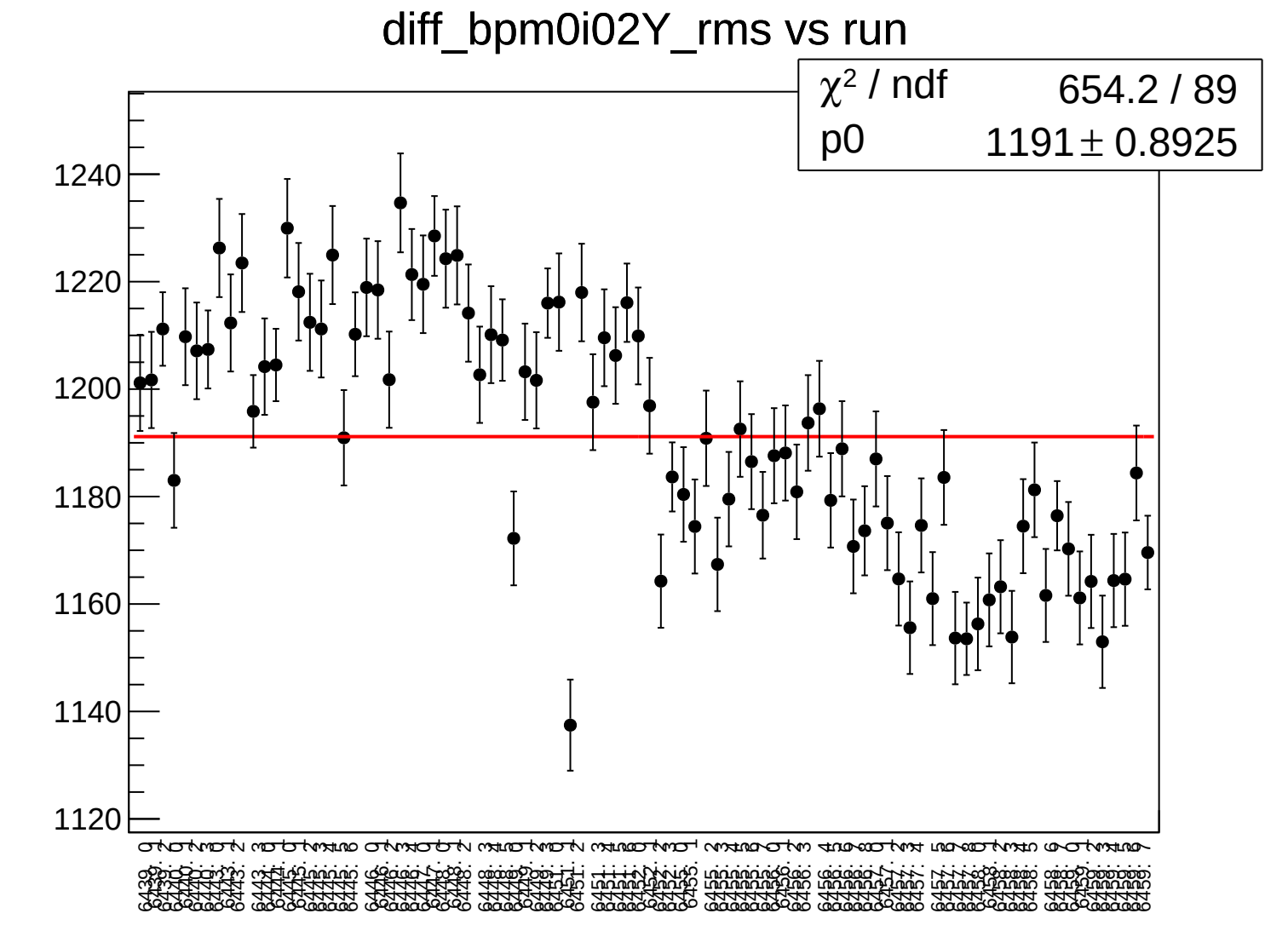

diff_bpm0i02X_mean vs run
χ² / ndf 106.1 / 89
p0 −51.05 ± 1.464
0
−20
−40
−60
−80
−100
pull
Entries 90
Mean −202.3
Std Dev 0
2
1
0
−1
−2

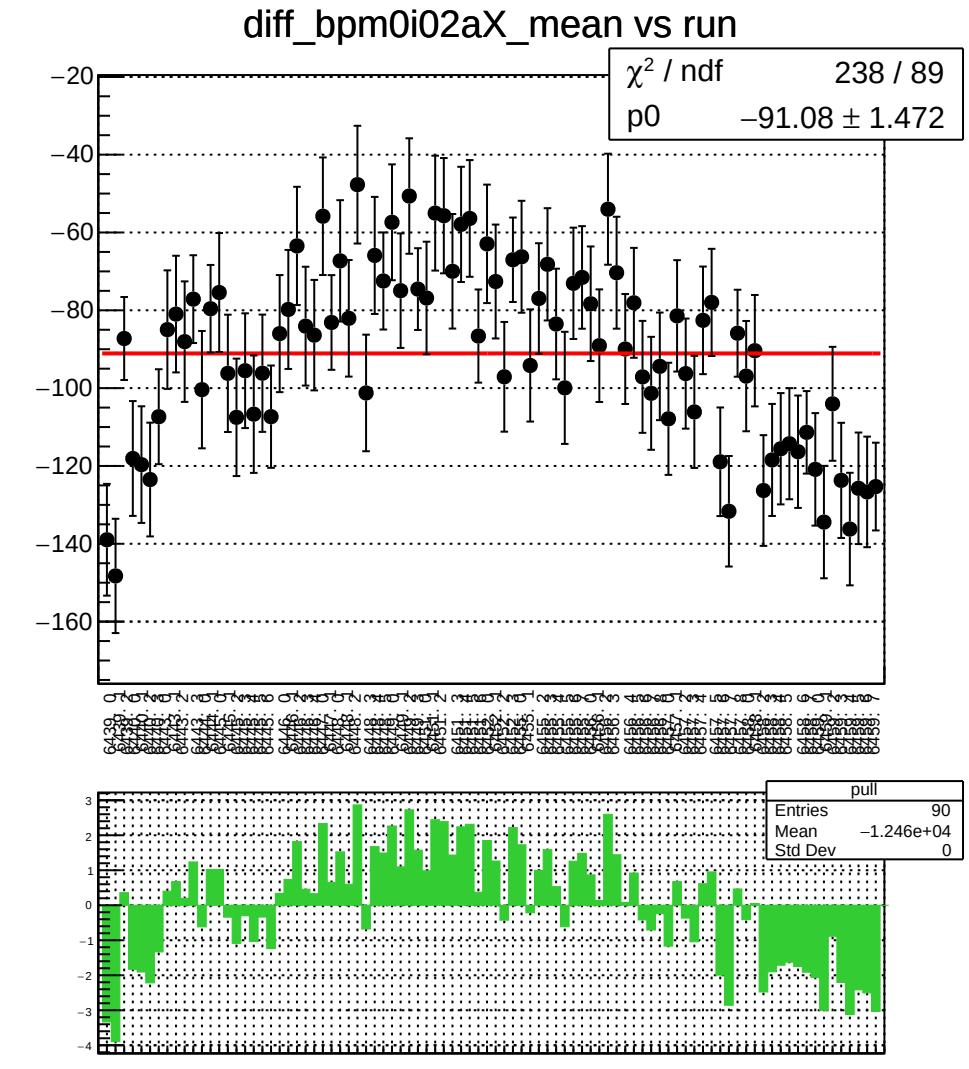

pull1D
Entries 90
Mean −0.008408
Std Dev 1.086
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

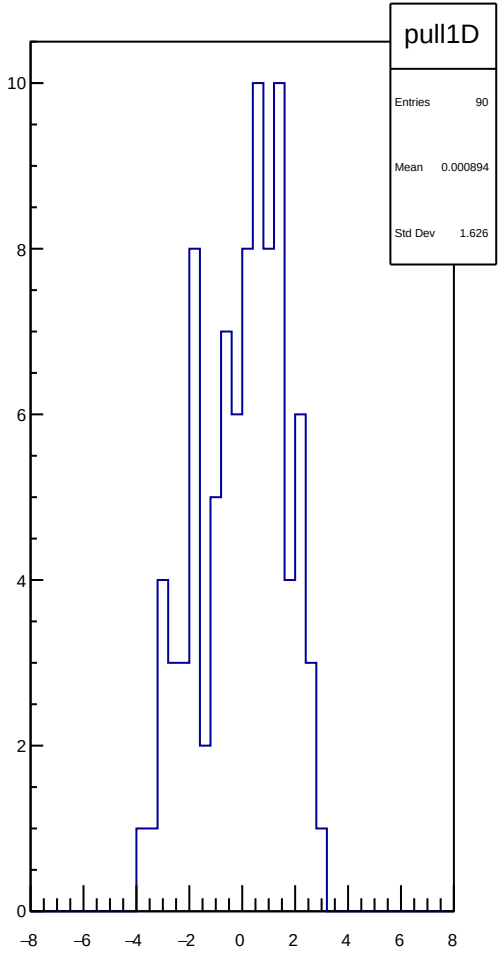

diff_bpm0i02X_rms vs run
χ² / ndf 238.1 / 89
p0 1382 ± 1.035
1440
1420
1400
1380
1360
1340
1320

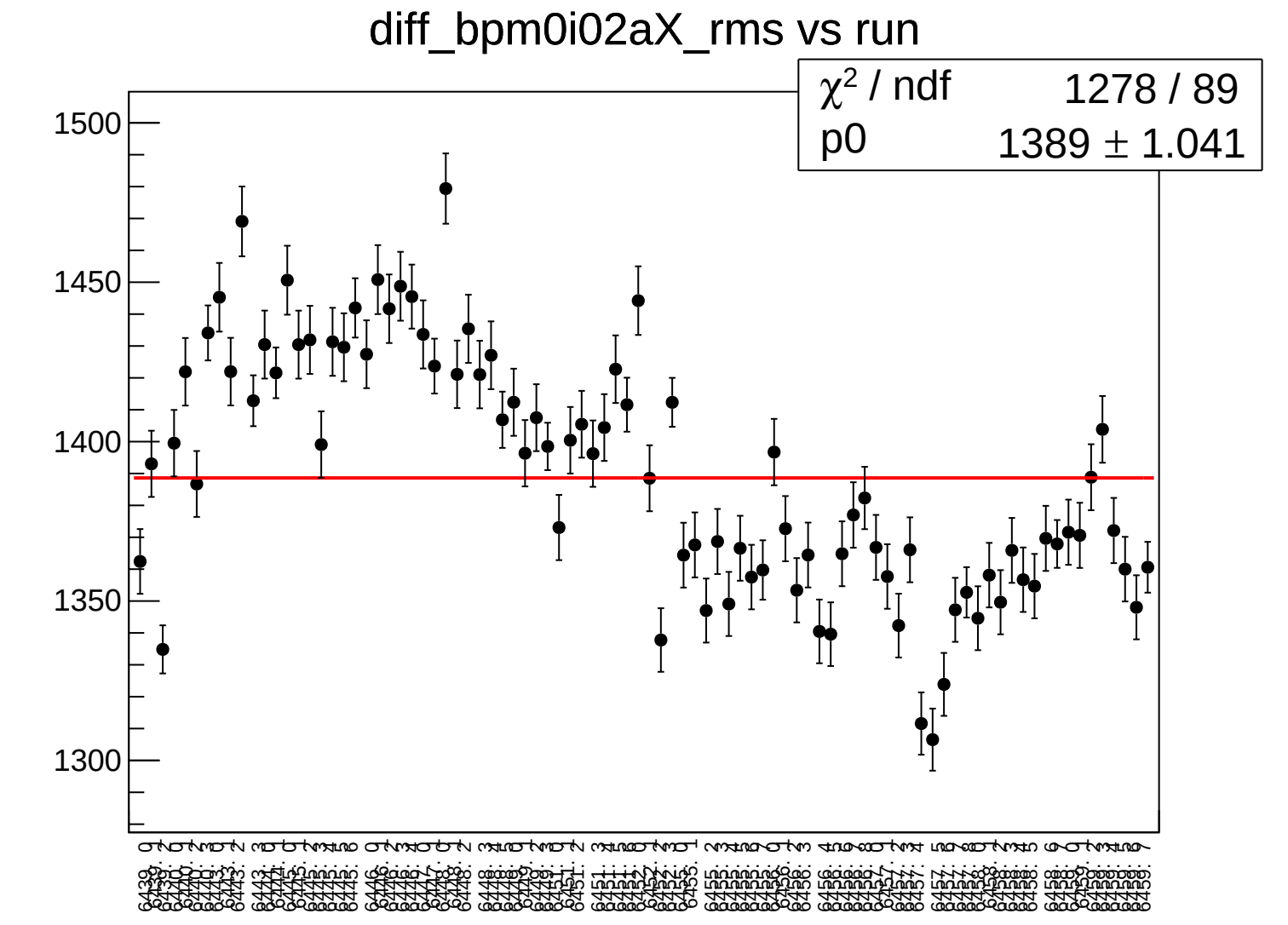

diff_bpm0i02Y_mean vs run
χ² / ndf 113.9 / 89
p0 −5.179 ± 1.262
pull
Entries 90
Mean −461.1
Std Dev 0

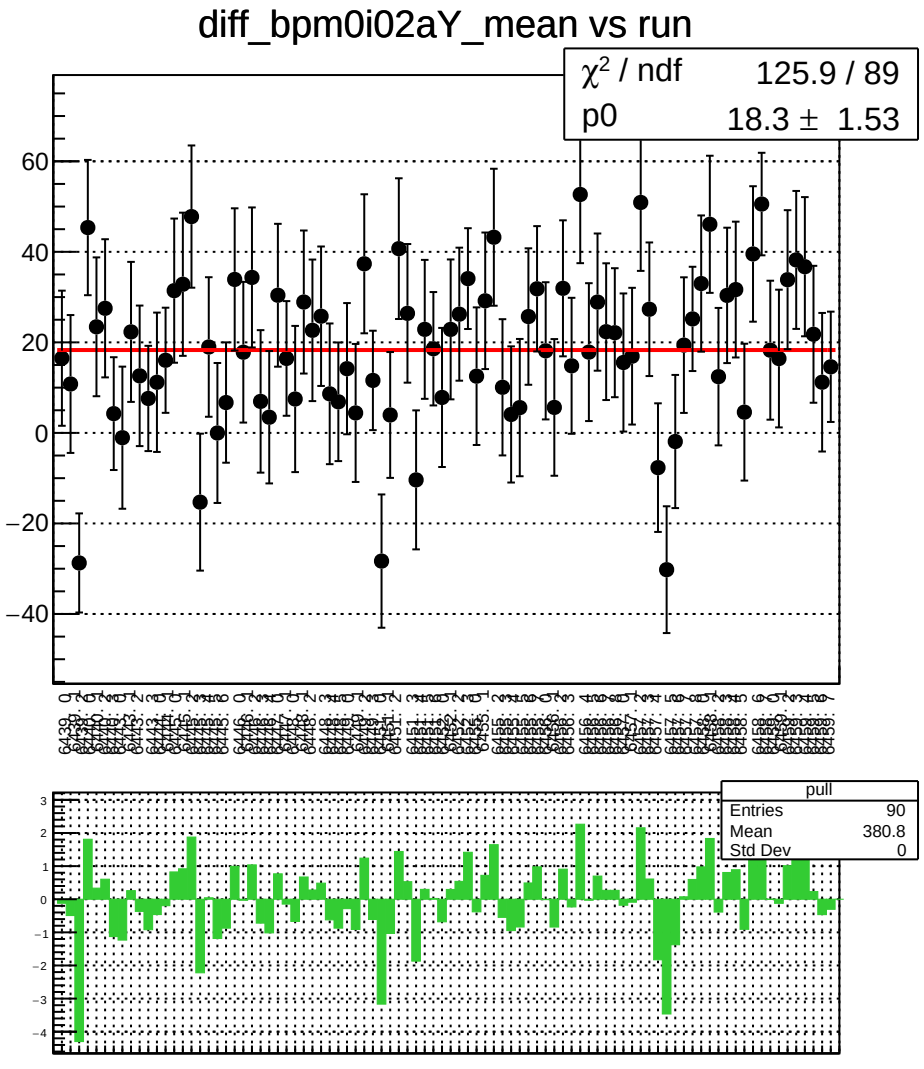

pull1D
Entries 90
Mean −0.008273
Std Dev 1.125

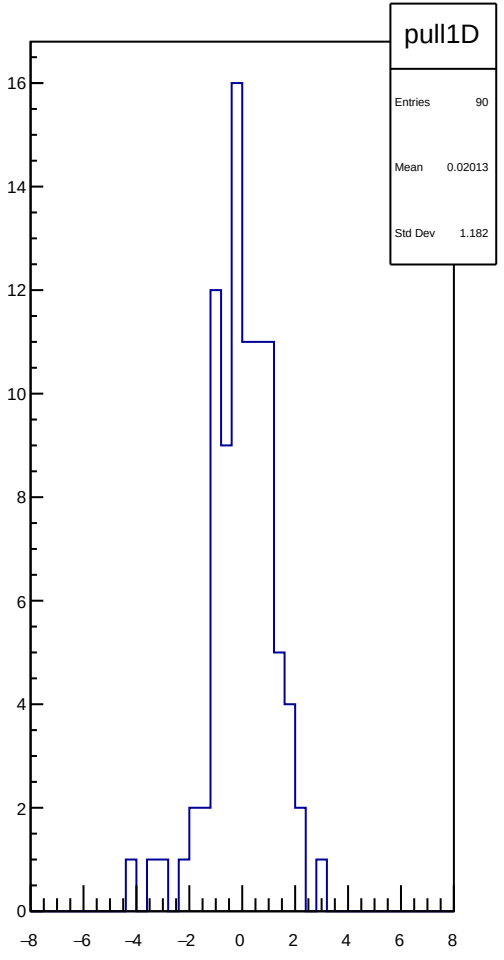

diff_bpm0i02Y_rms vs run
χ² / ndf 654.2 / 89
p0 1191 ± 0.8925
1240
1220
1200
1180
1160
1140
1120

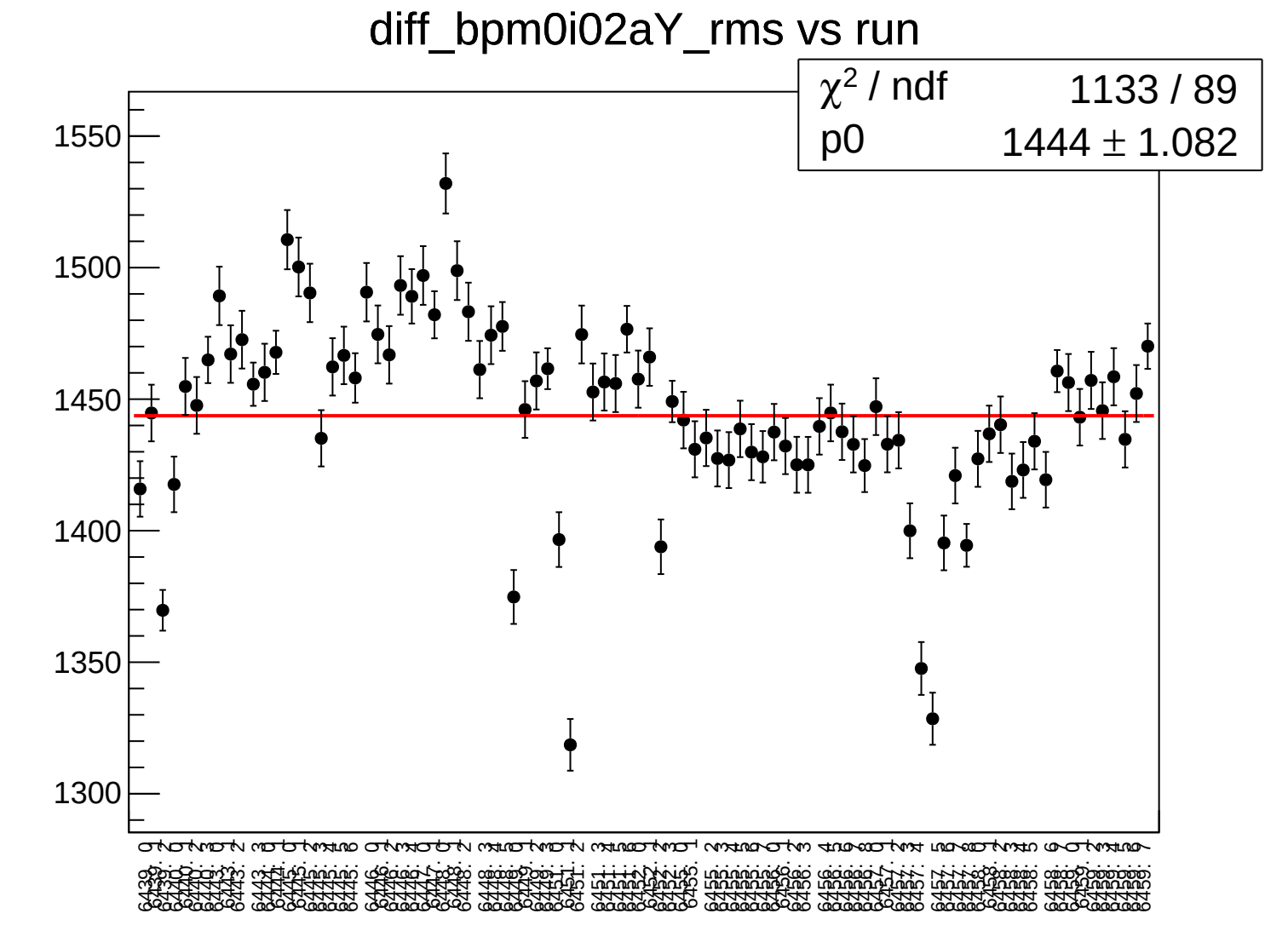

diff_bpm0i02aX_mean vs run
χ² / ndf 238 / 89
p0 −91.08 ± 1.472
pull
Entries 90
Mean −1.246e+04
Std Dev 0

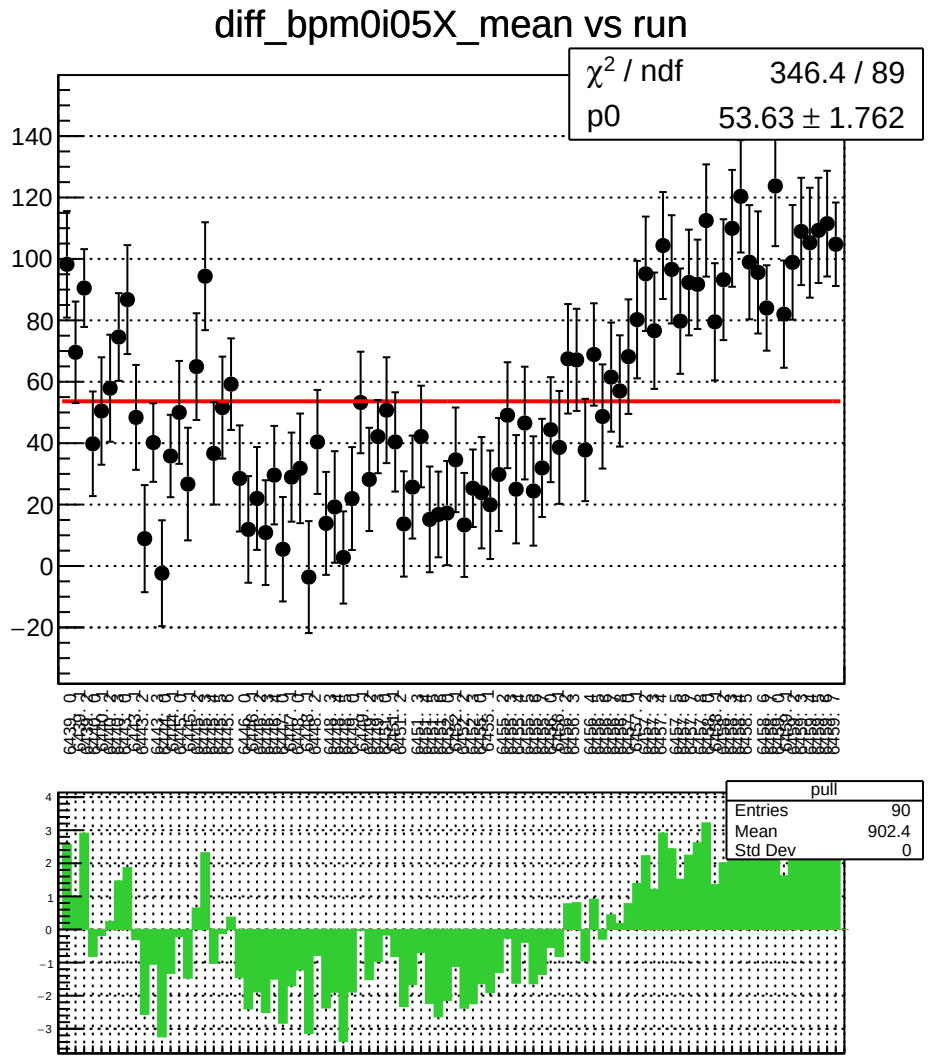

pull1D
Entries 90
Mean 0.000894
Std Dev 1.626

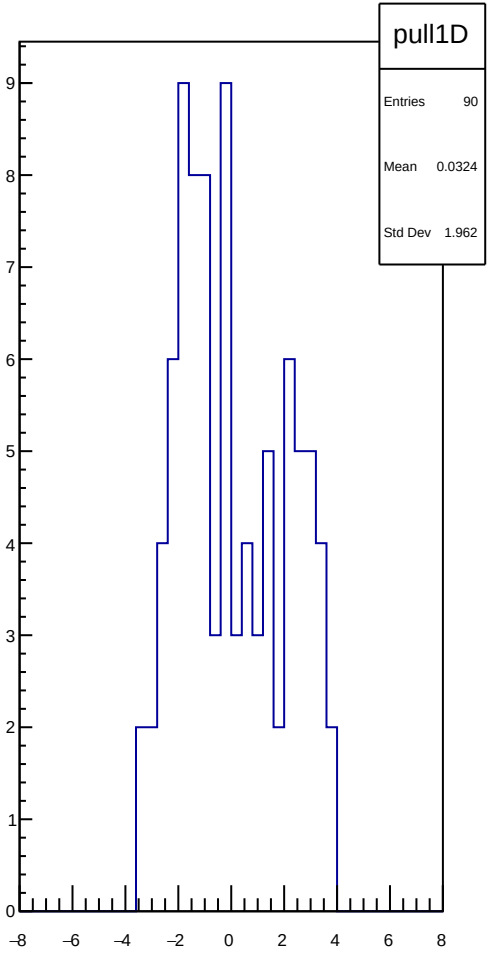

diff_bpm0i02aX_rms vs run
χ² / ndf 1278 / 89
p0 1389 ± 1.041
1500
1450
1400
1350
1300

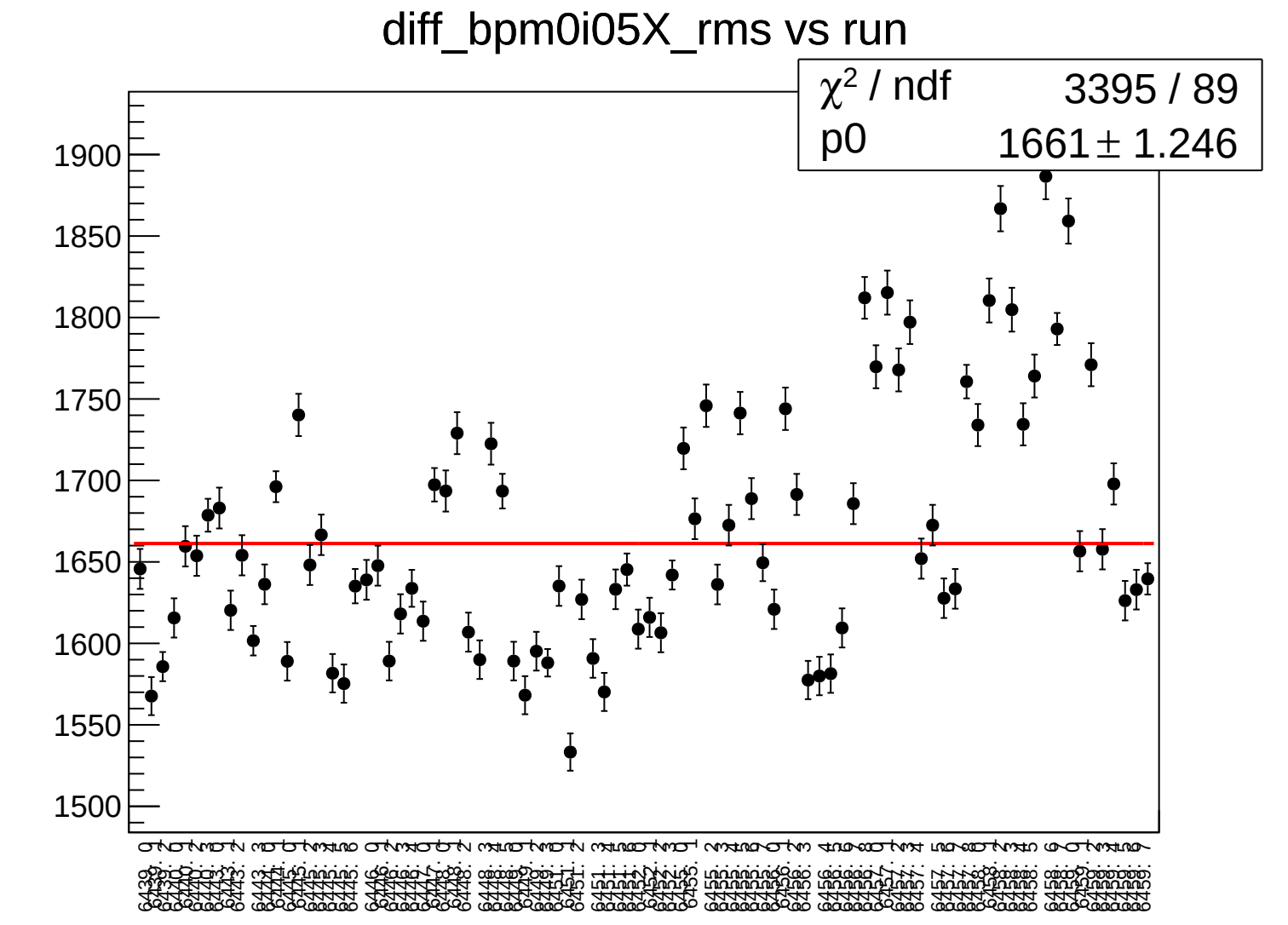

diff_bpm0i02aY_mean vs run
χ² / ndf 125.9 / 89
p0 18.3 ± 1.53
pull
Entries 90
Mean 380.8
Std Dev 0

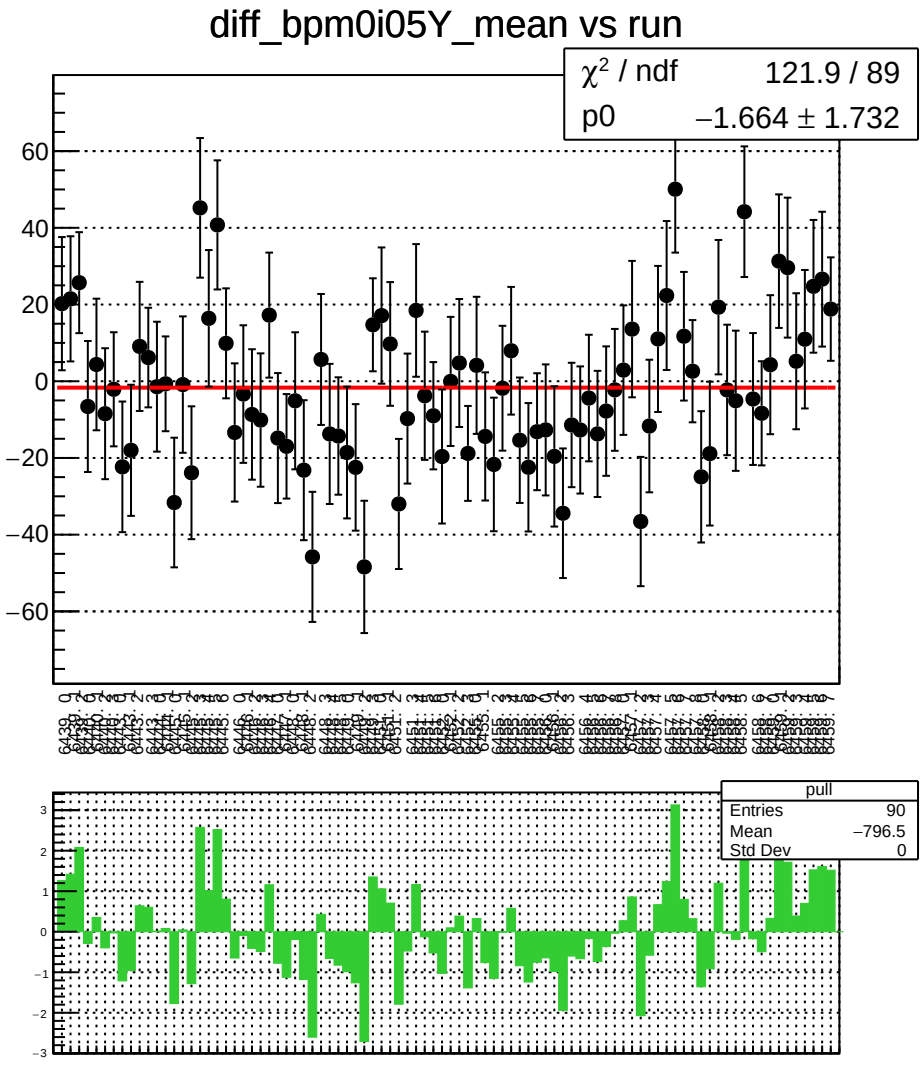

pull1D
Entries 90
Mean 0.02013
Std Dev 1.182

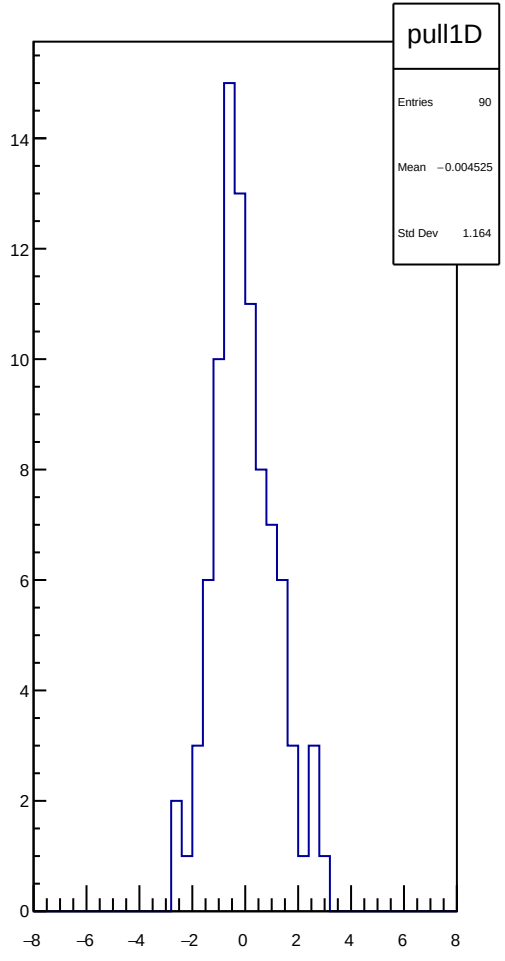

diff_bpm0i02aY_rms vs run
χ² / ndf 1133 / 89
p0 1444 ± 1.082
1550
1500
1450
1400
1350
1300

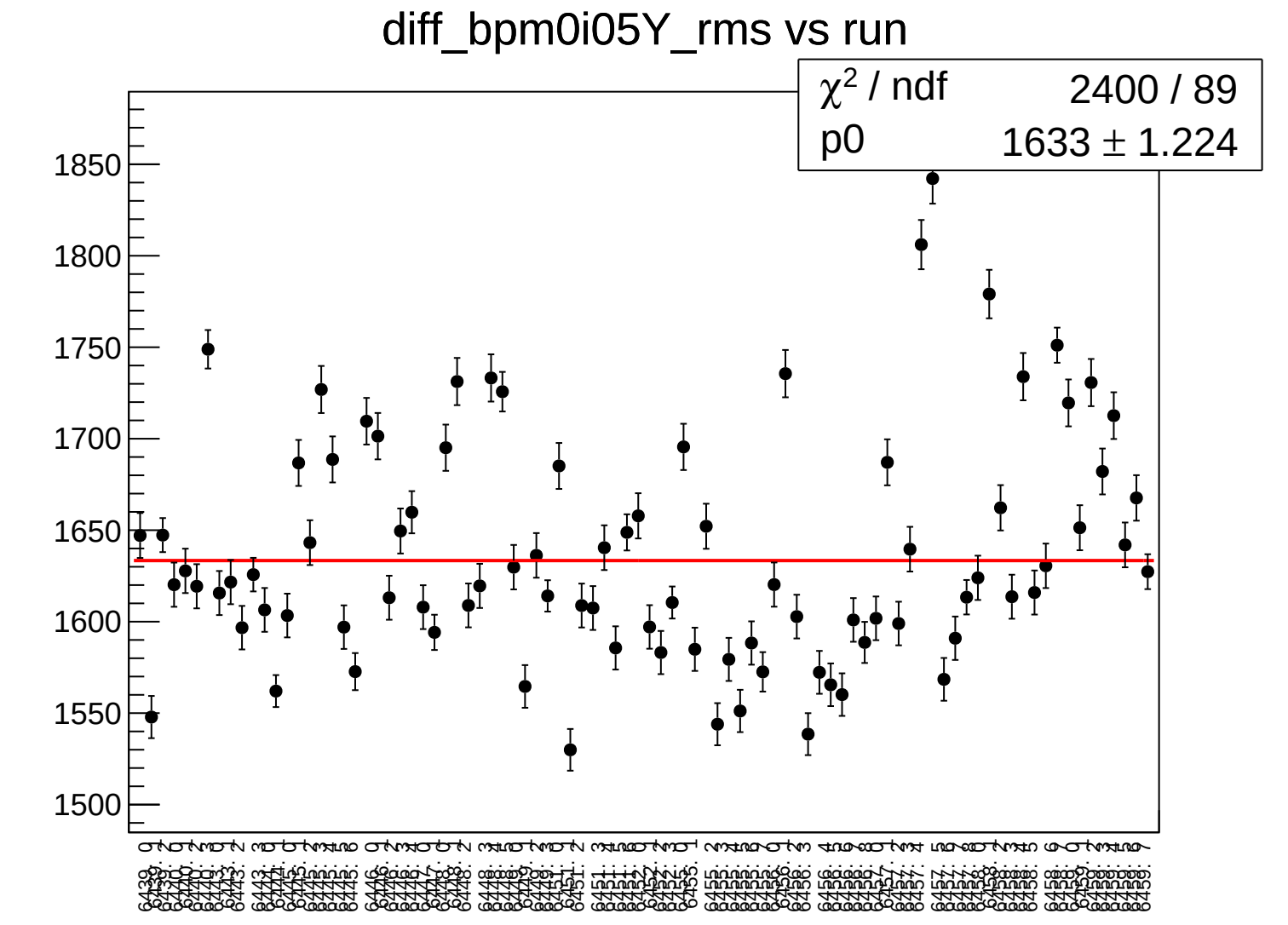

diff_bpm0i05X_mean vs run
χ^2 / ndf 346.4 / 89
p0 53.63 ± 1.762
pull
Entries 90
Mean 902.4
Std Dev 0

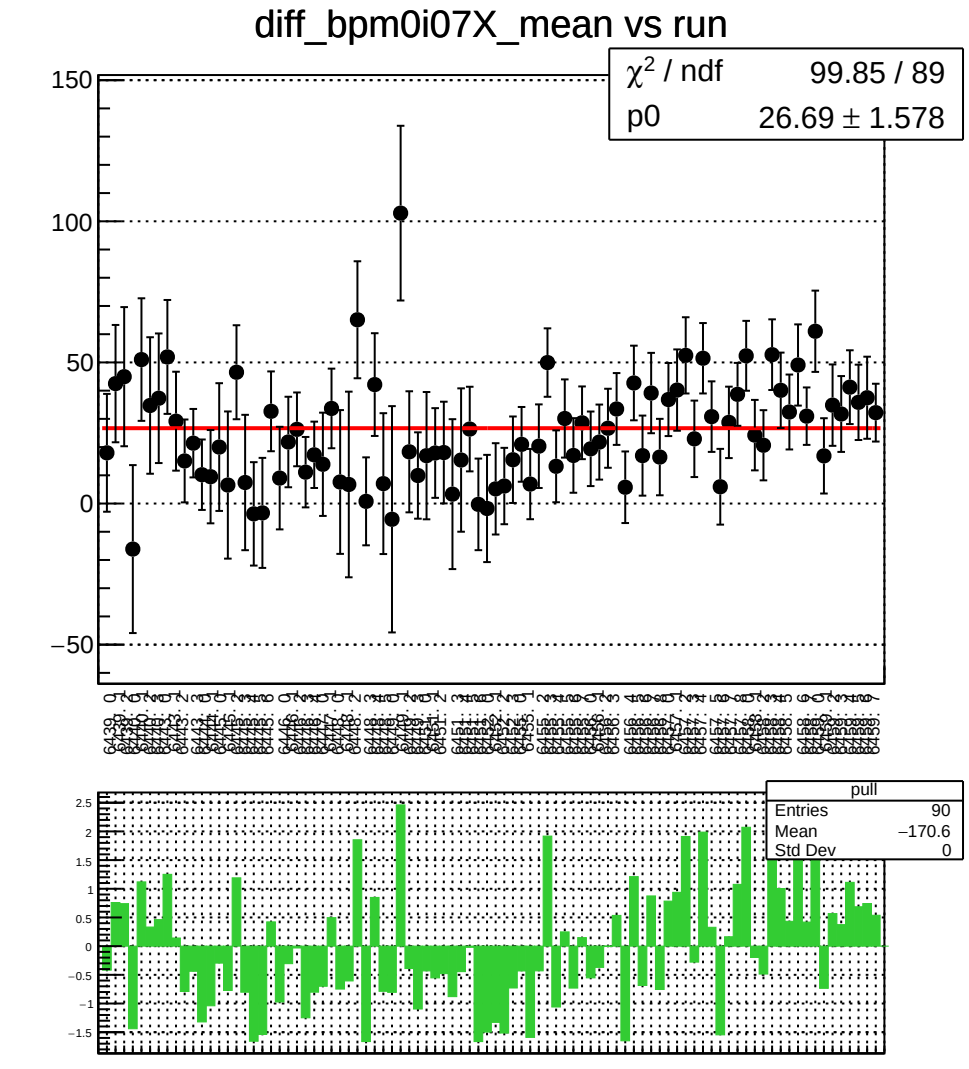

pull1D
Entries 90
Mean 0.0324
Std Dev 1.962

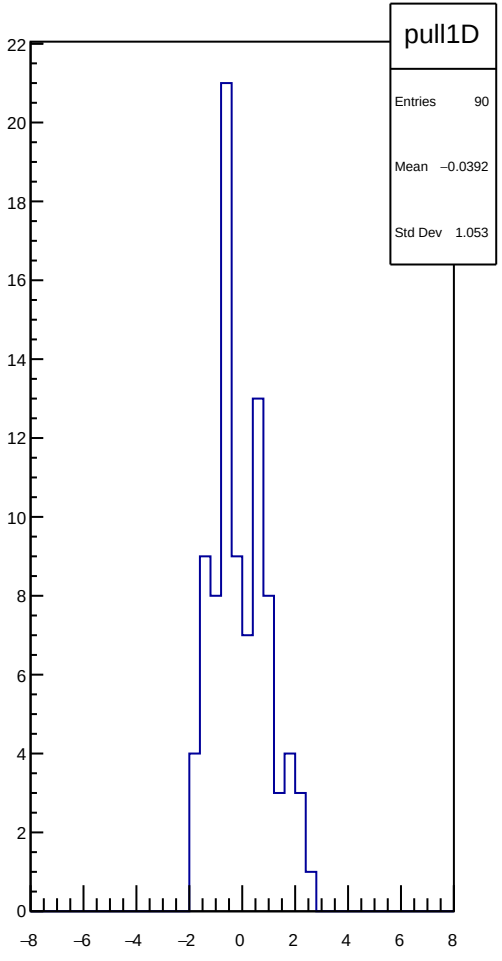

diff_bpm0i05X_rms vs run
χ² / ndf 3395 / 89
p0 1661 ± 1.246
1900
1850
1800
1750
1700
1650
1600
1550
1500

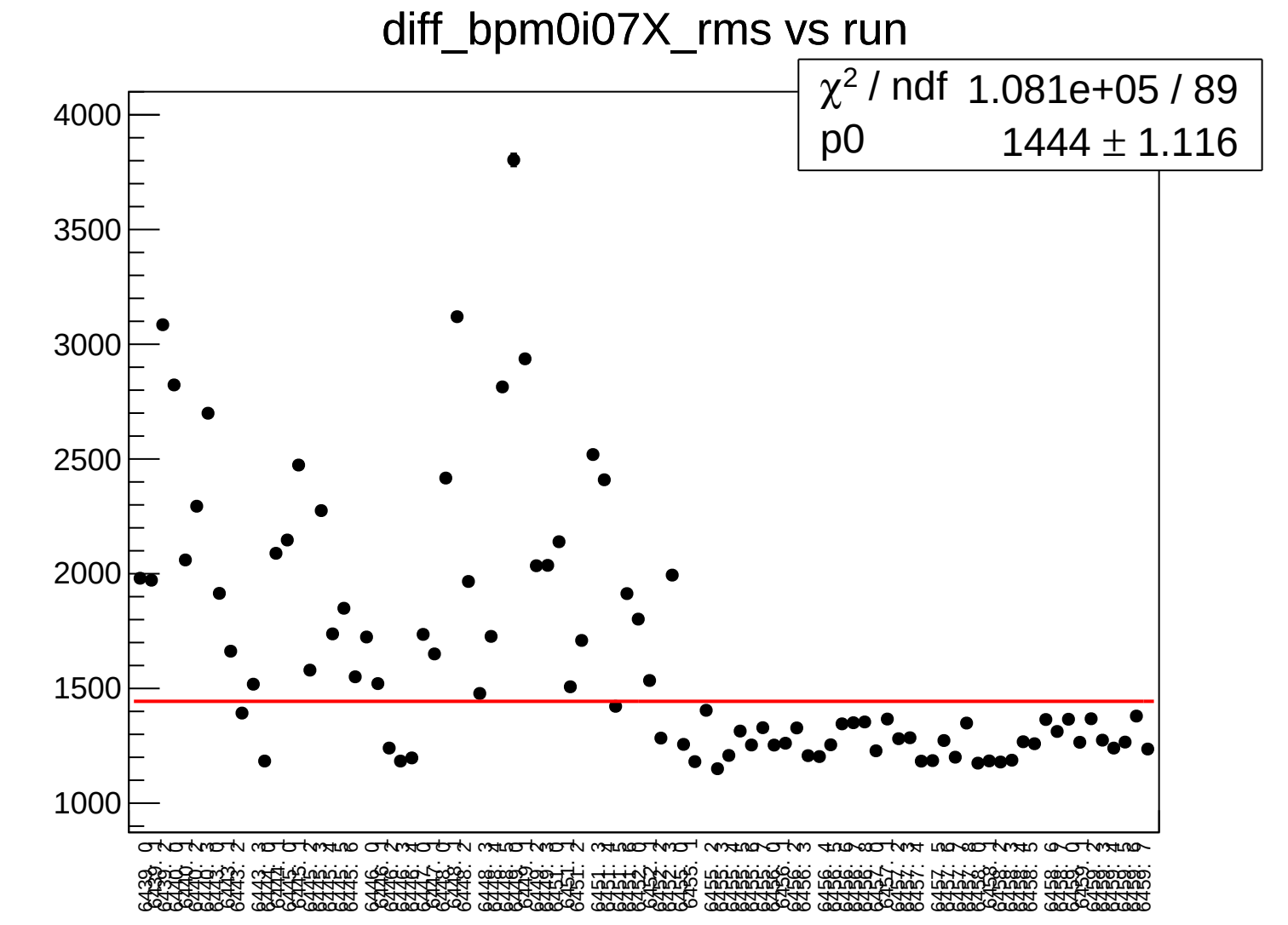

diff_bpm0i05Y_mean vs run
χ² / ndf 121.9 / 89
p0 −1.664 ± 1.732
pull
Entries 90
Mean −796.5
Std Dev 0

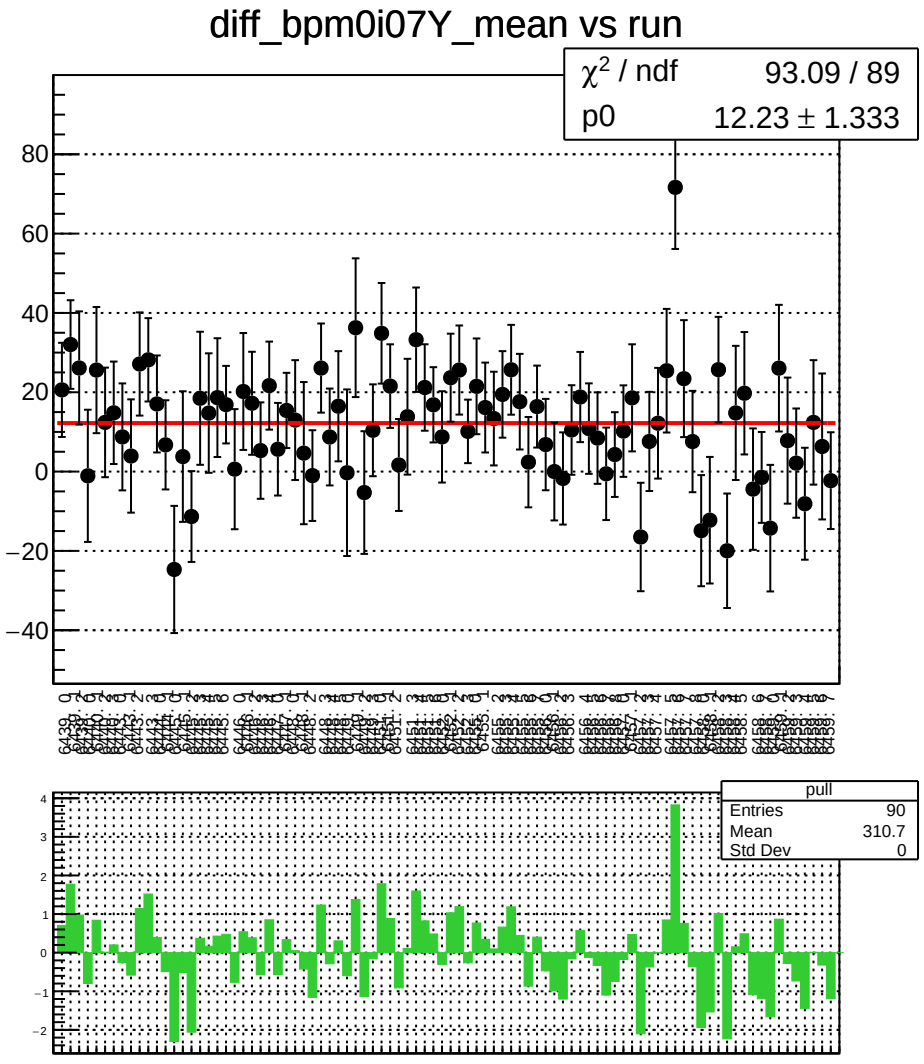

pull1D
Entries 90
Mean −0.004525
Std Dev 1.164

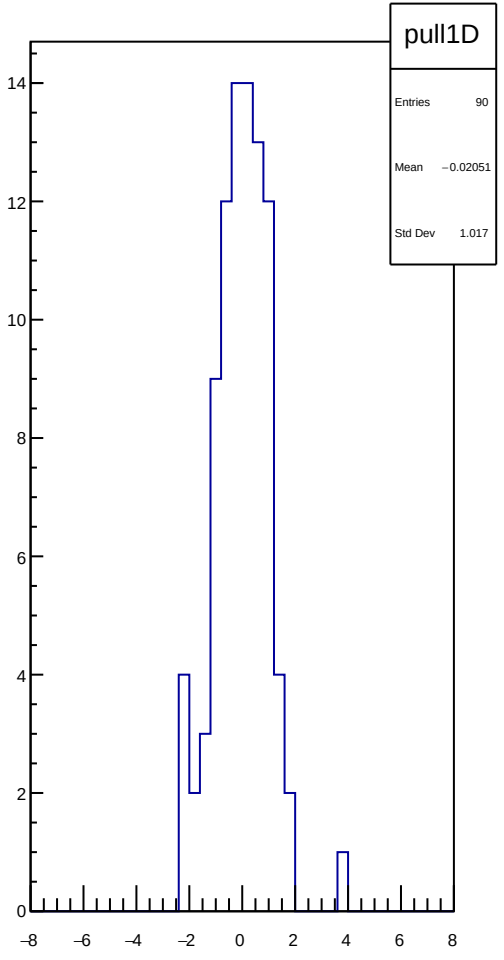

diff_bpm0i05Y_rms vs run
χ² / ndf 2400 / 89
p0 1633 ± 1.224
1850
1800
1750
1700
1650
1600
1550
1500

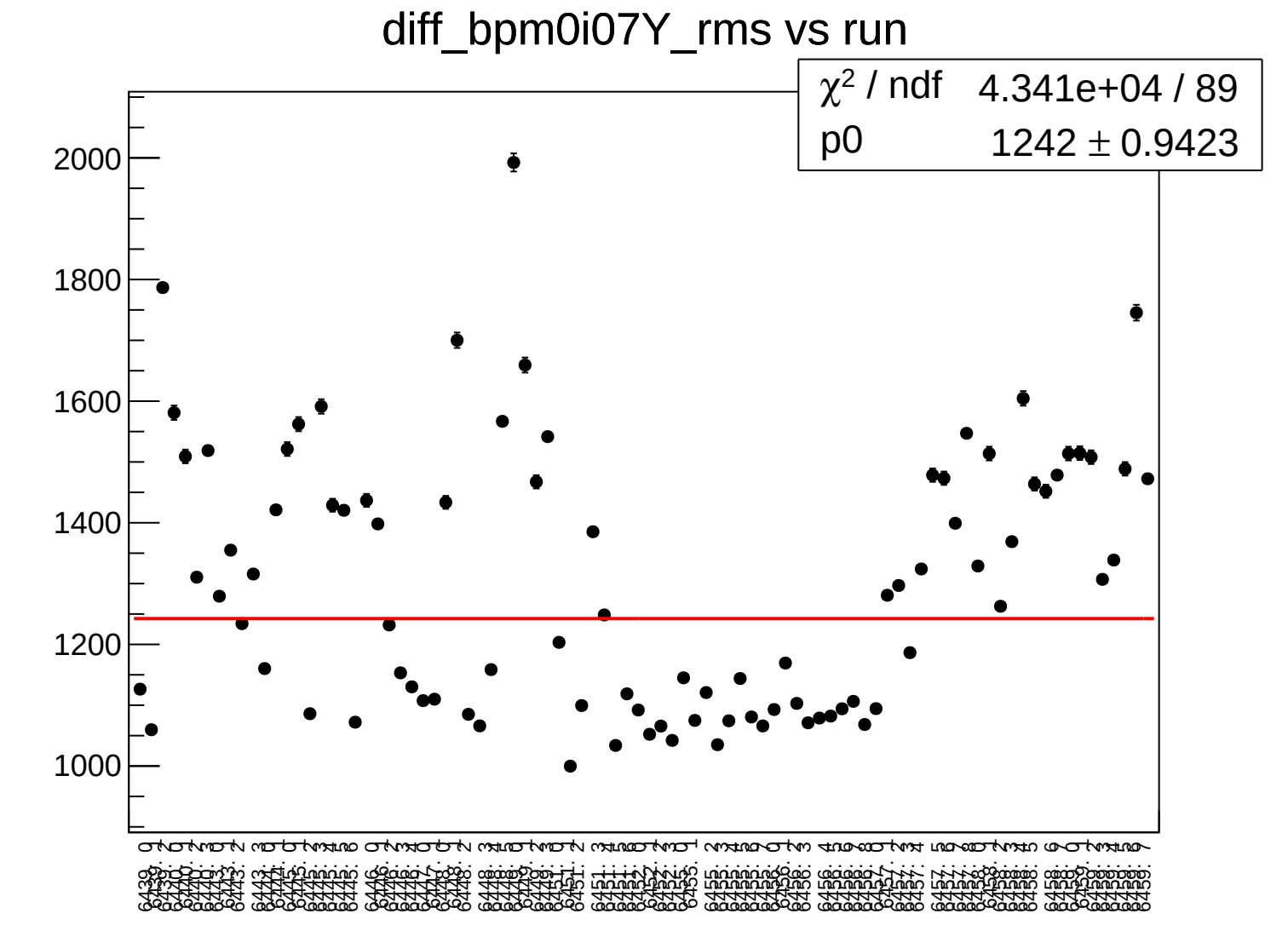

diff_bpm0i07X_mean vs run
χ^2 / ndf 99.85 / 89
p0 26.69 ± 1.578
150
100
50
0
−50
pull
Entries 90
Mean −170.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

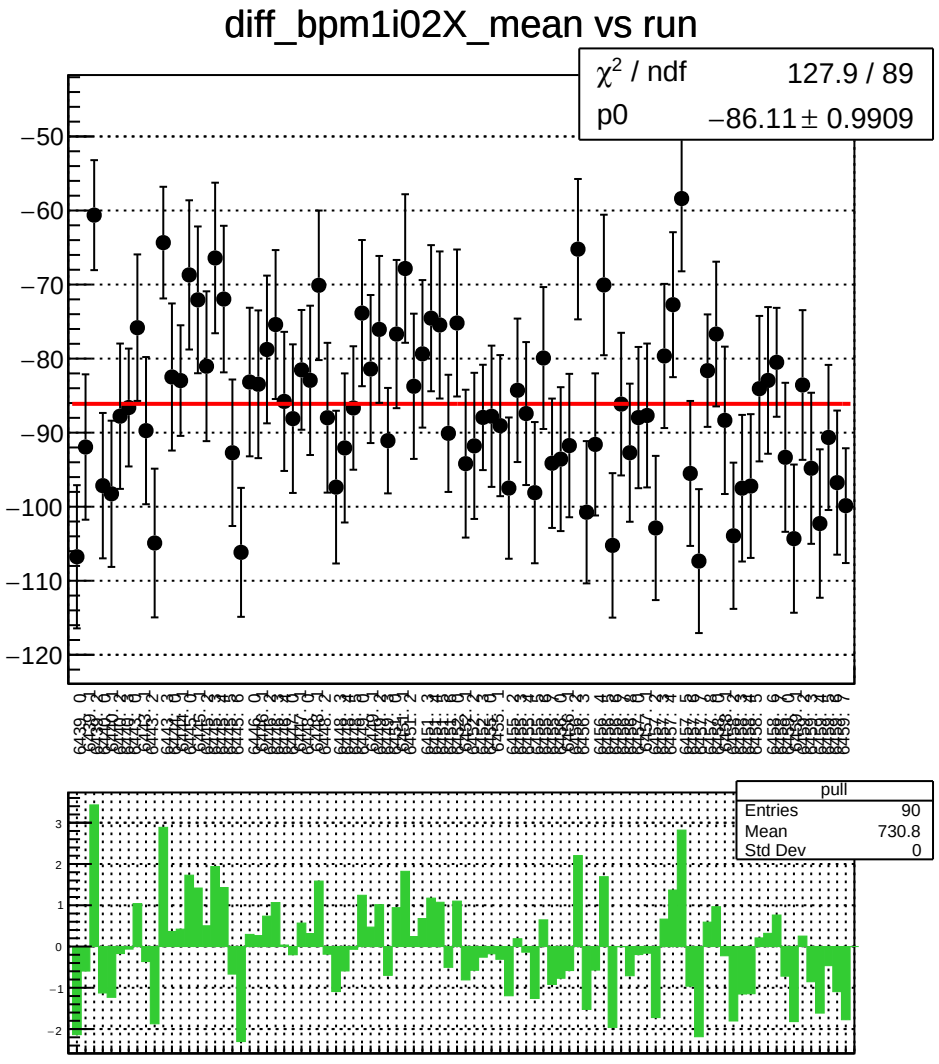

pull1D
Entries 90
Mean −0.0392
Std Dev 1.053
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

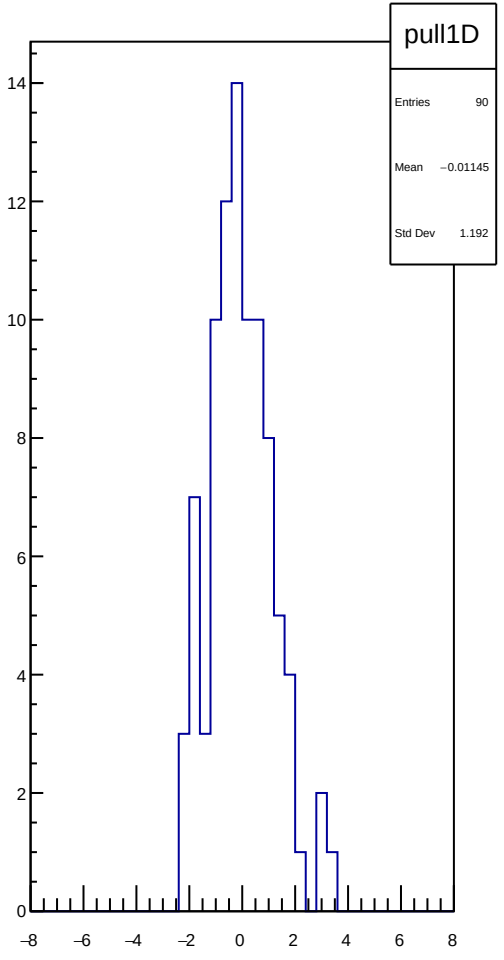

diff_bpm0i07X_rms vs run
χ^2 / ndf 1.081e+05 / 89
p0 1444 ± 1.116
4000
3500
3000
2500
2000
1500
1000

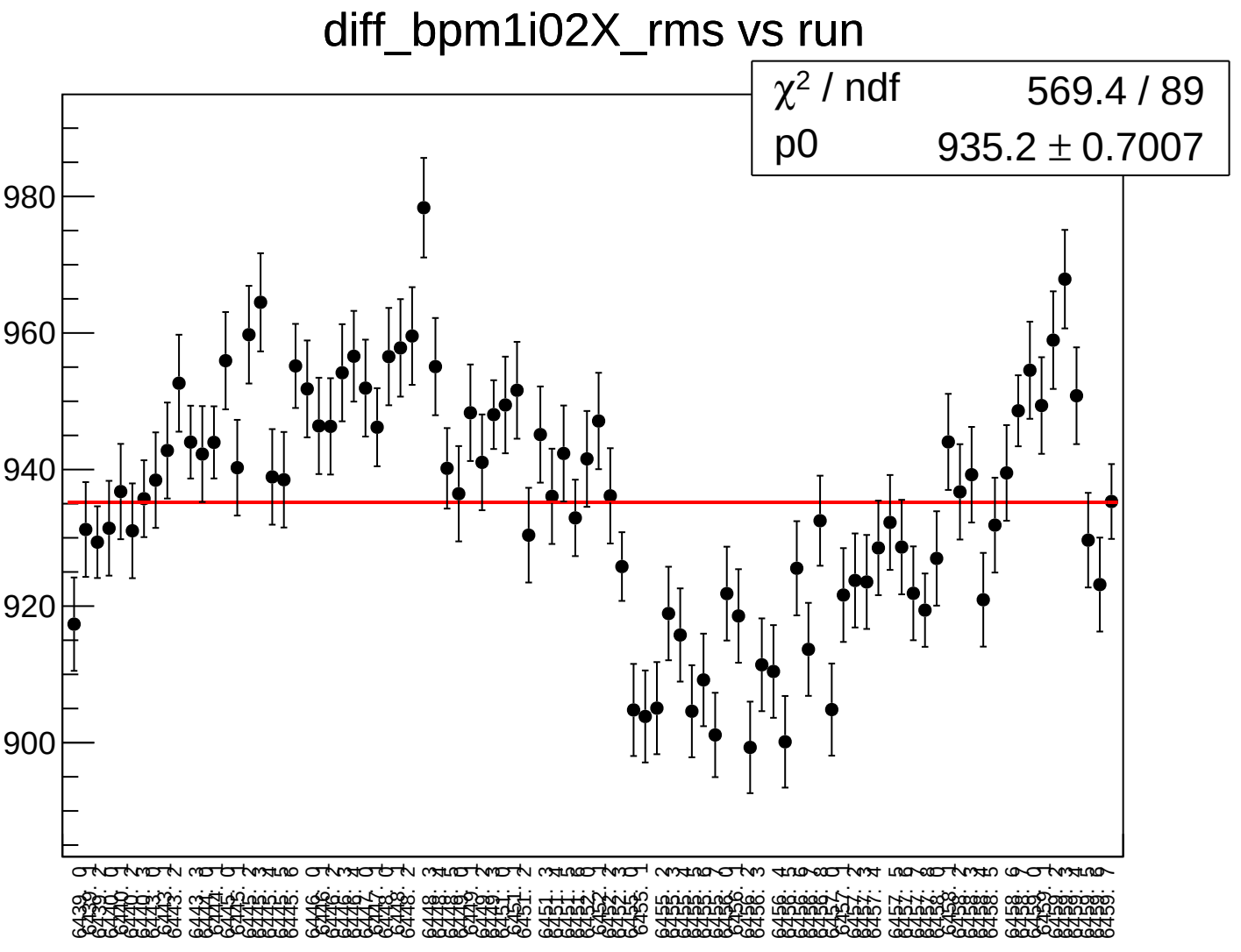

diff_bpm0i07Y_mean vs run
χ^2 / ndf 93.09 / 89
p0 12.23 ± 1.333
pull
Entries 90
Mean 310.7
Std Dev 0

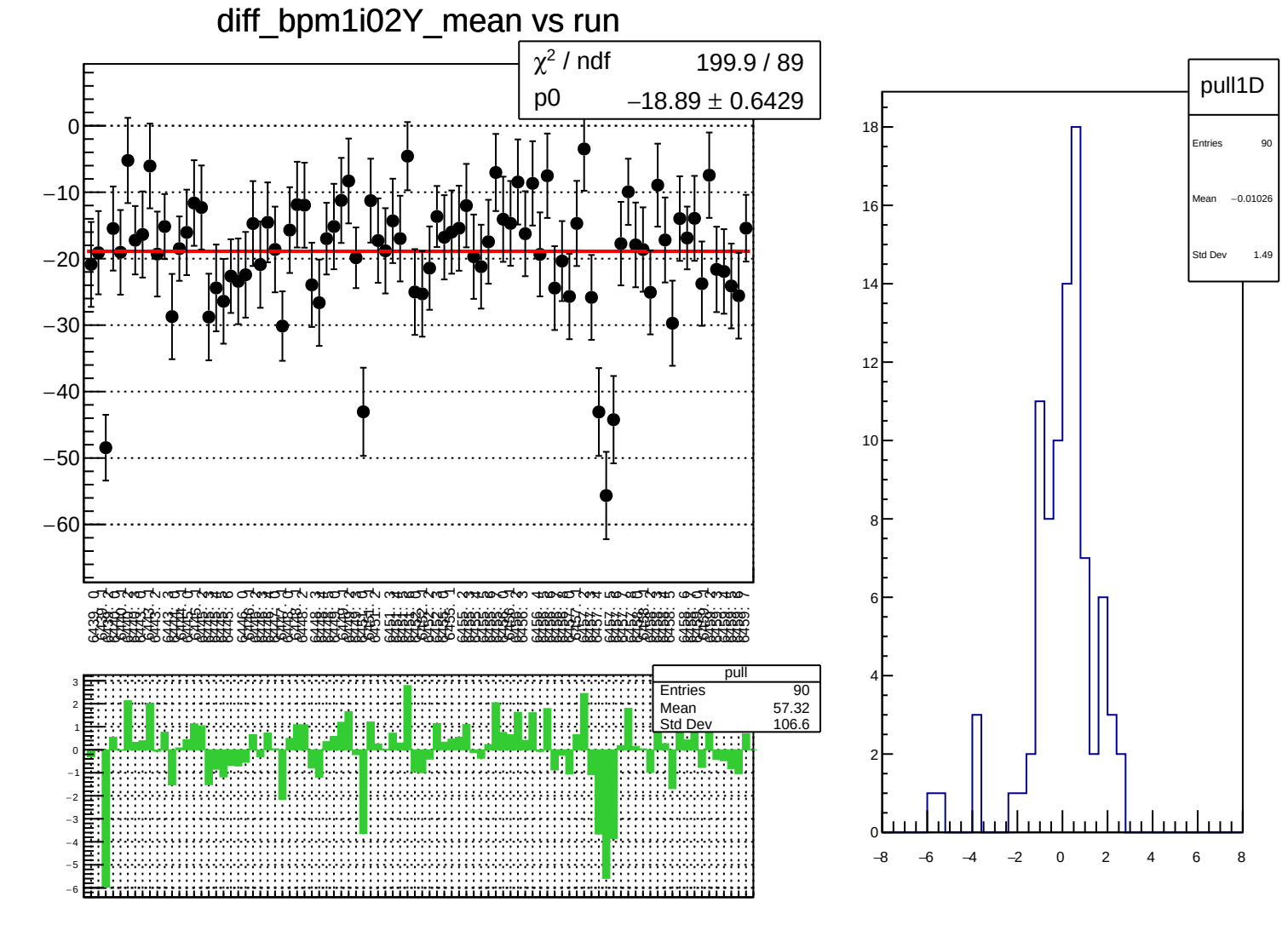

pull1D
Entries 90
Mean −0.02051
Std Dev 1.017

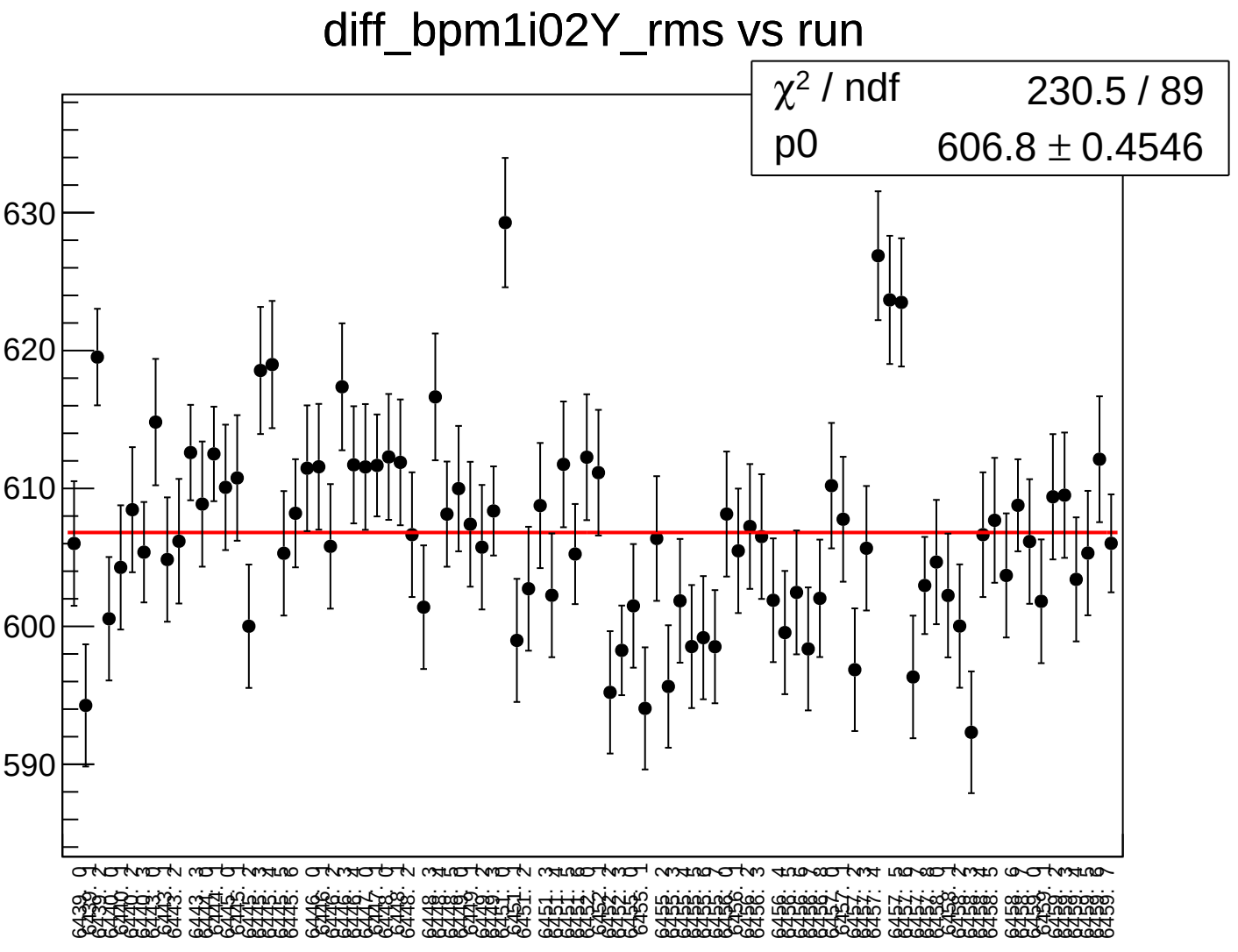

diff_bpm0i07Y_rms vs run
χ² / ndf 4.341e+04 / 89
p0 1242 ± 0.9423
2000
1800
1600
1400
1200
1000

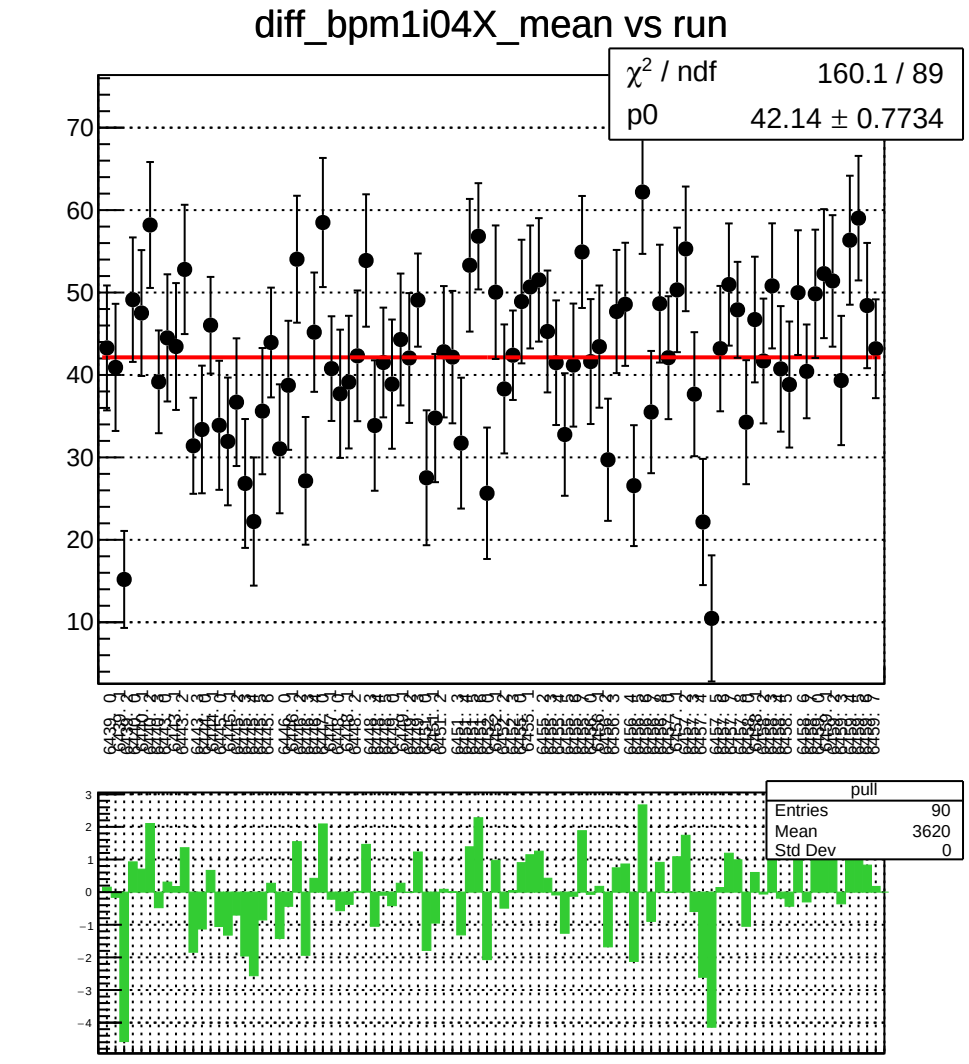

diff_bpm1i02X_mean vs run
χ² / ndf 127.9 / 89
p0 −86.11 ± 0.9909
pull
Entries 90
Mean 730.8
Std Dev 0

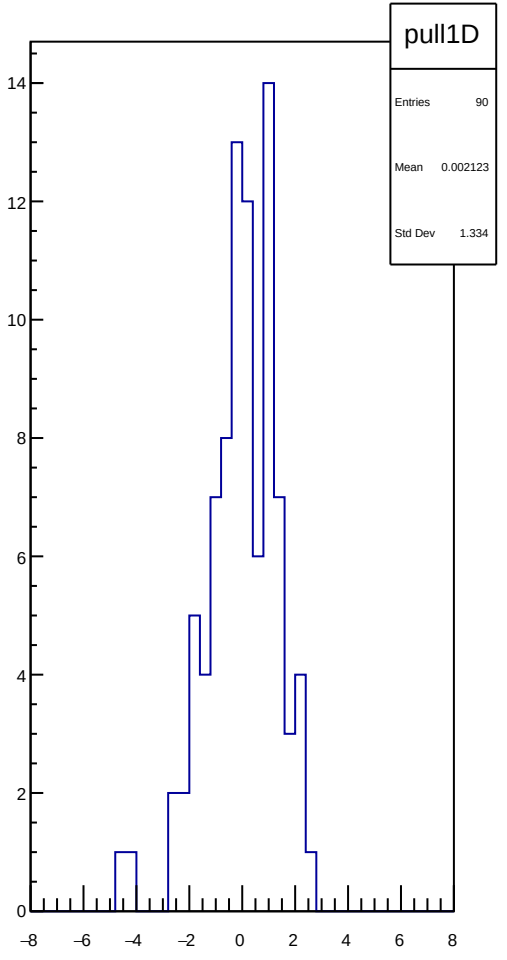

pull1D
Entries 90
Mean −0.01145
Std Dev 1.192

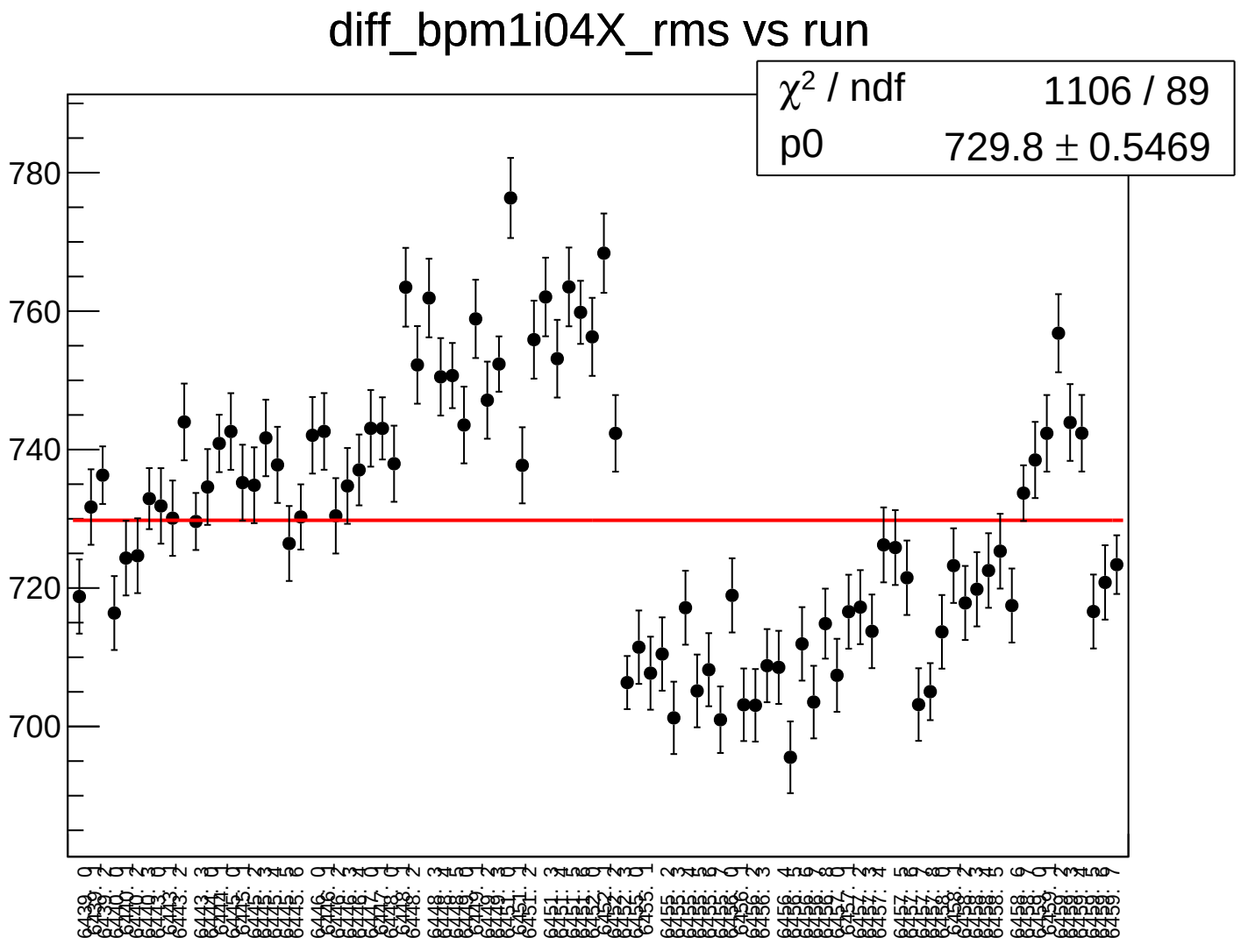

diff_bpm1i02X_rms vs run
χ^2 / ndf 569.4 / 89
p0 935.2 ± 0.7007
980
960
940
920
900

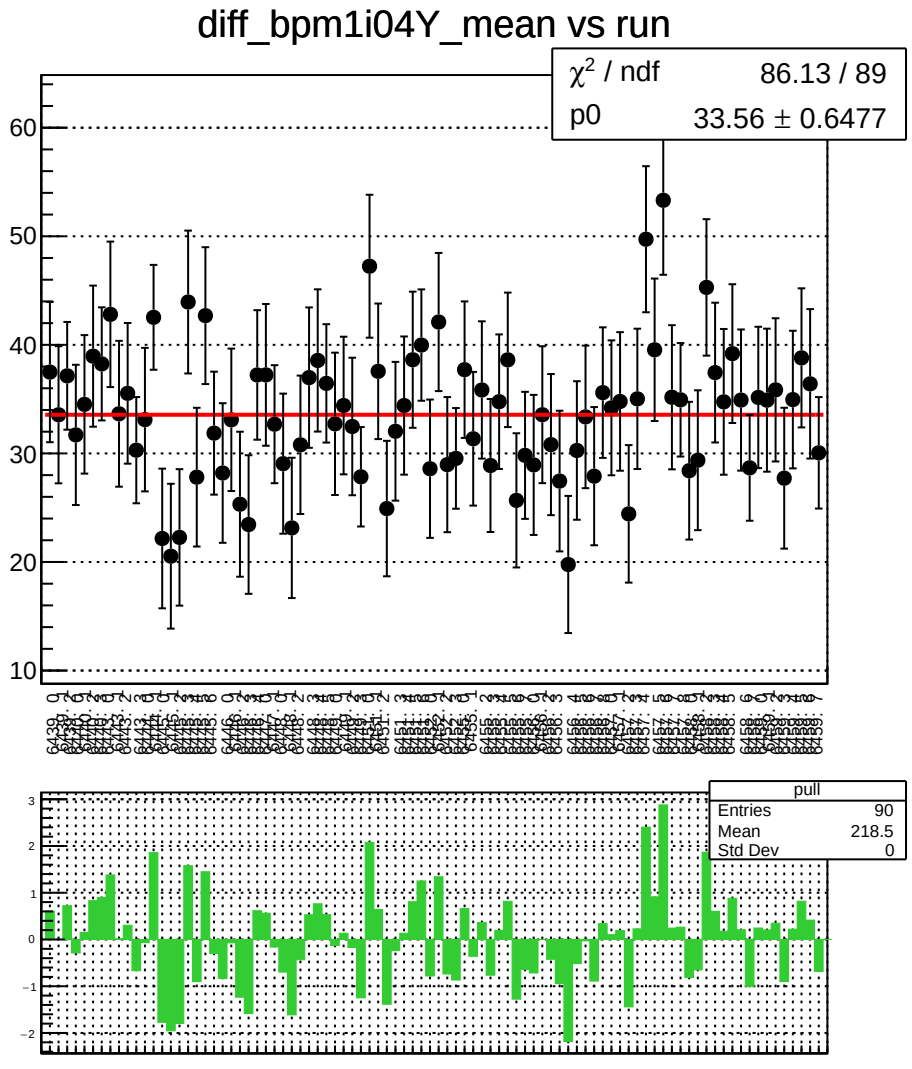

diff_bpm1i02Y_mean vs run
χ² / ndf 199.9 / 89
p0 −18.89 ± 0.6429
pull
Entries 90
Mean 57.32
Std Dev 106.6
pull1D
Entries 90
Mean −0.01026
Std Dev 1.49

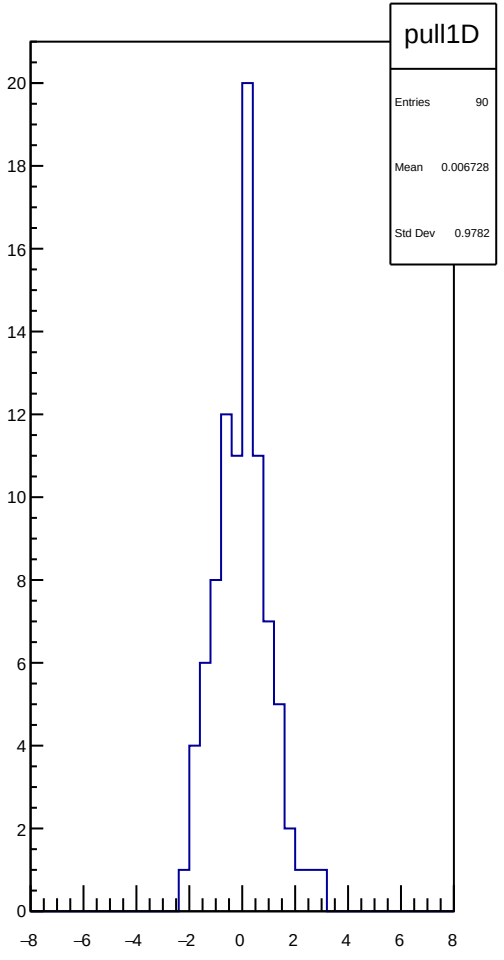

diff_bpm1i02Y_rms vs run
χ² / ndf 230.5 / 89
p0 606.8 ± 0.4546
630
620
610
600
590

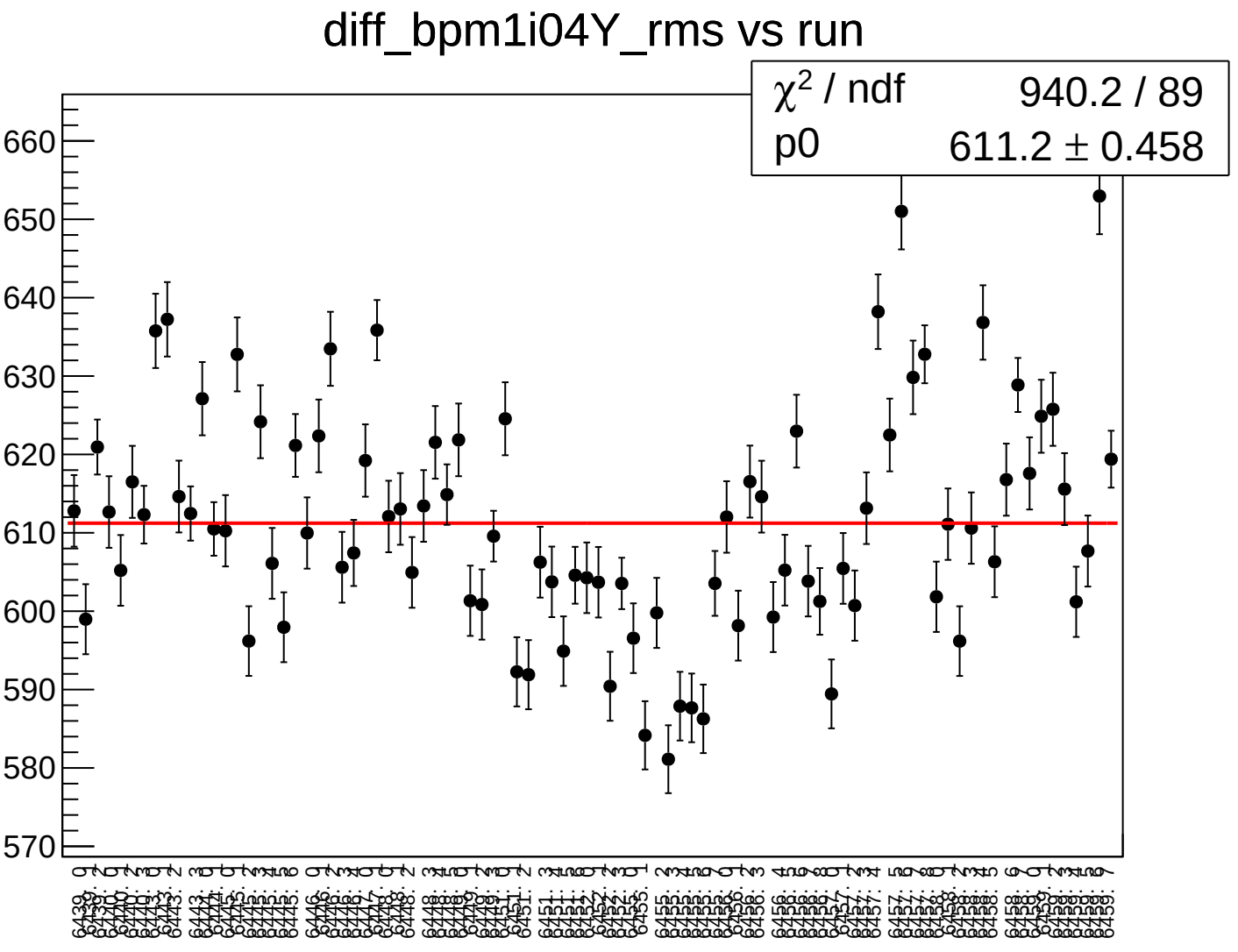

diff_bpm1i04X_mean vs run
χ² / ndf 160.1 / 89
p0 42.14 ± 0.7734
pull
Entries 90
Mean 3620
Std Dev 0

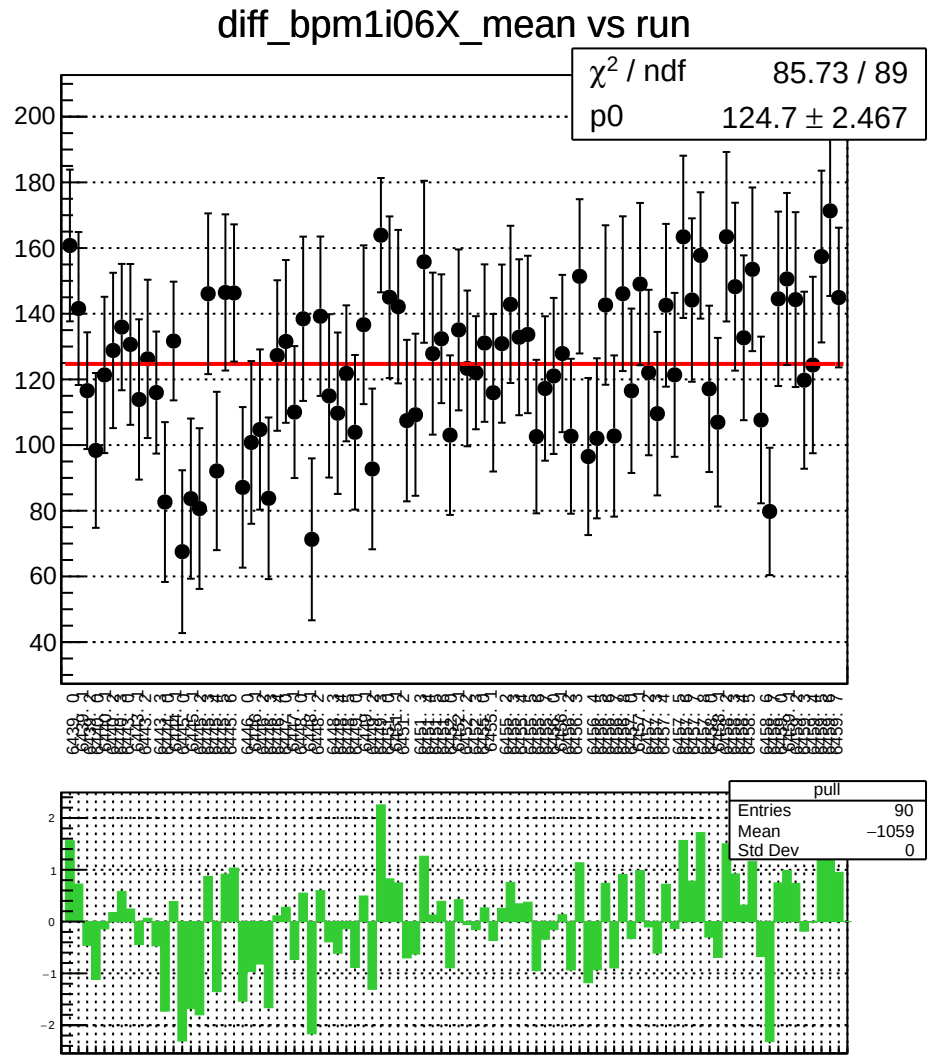

pull1D
Entries 90
Mean 0.002123
Std Dev 1.334

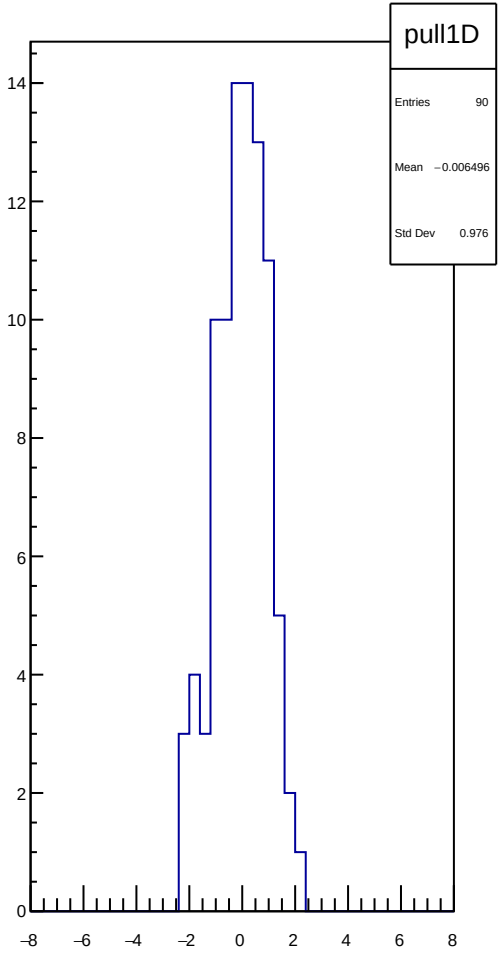

diff_bpm1i04X_rms vs run
χ² / ndf 1106 / 89
p0 729.8 ± 0.5469
780
760
740
720
700

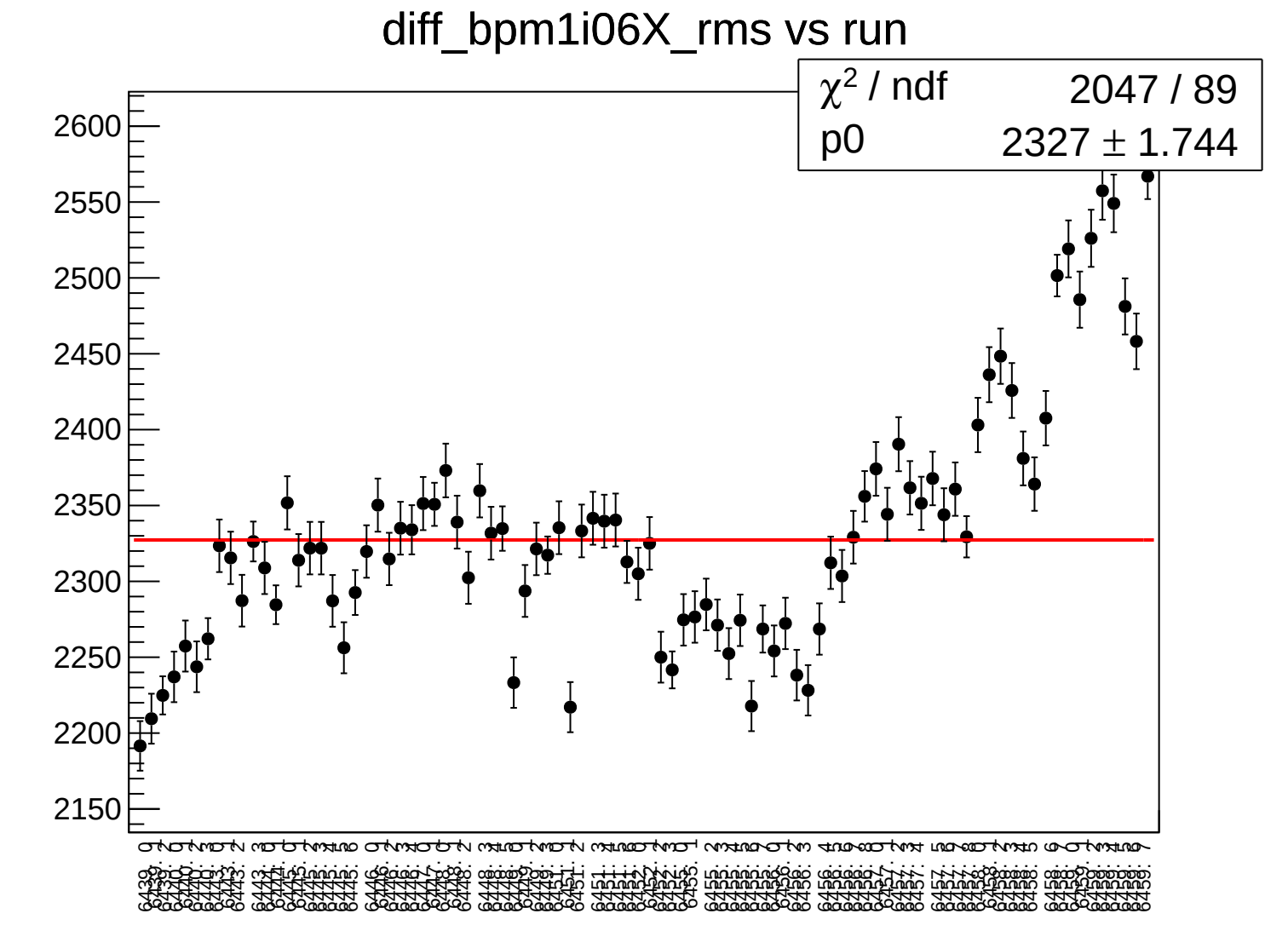

diff_bpm1i04Y_mean vs run
χ^2 / ndf 86.13 / 89
p0 33.56 ± 0.6477
pull
Entries 90
Mean 218.5
Std Dev 0

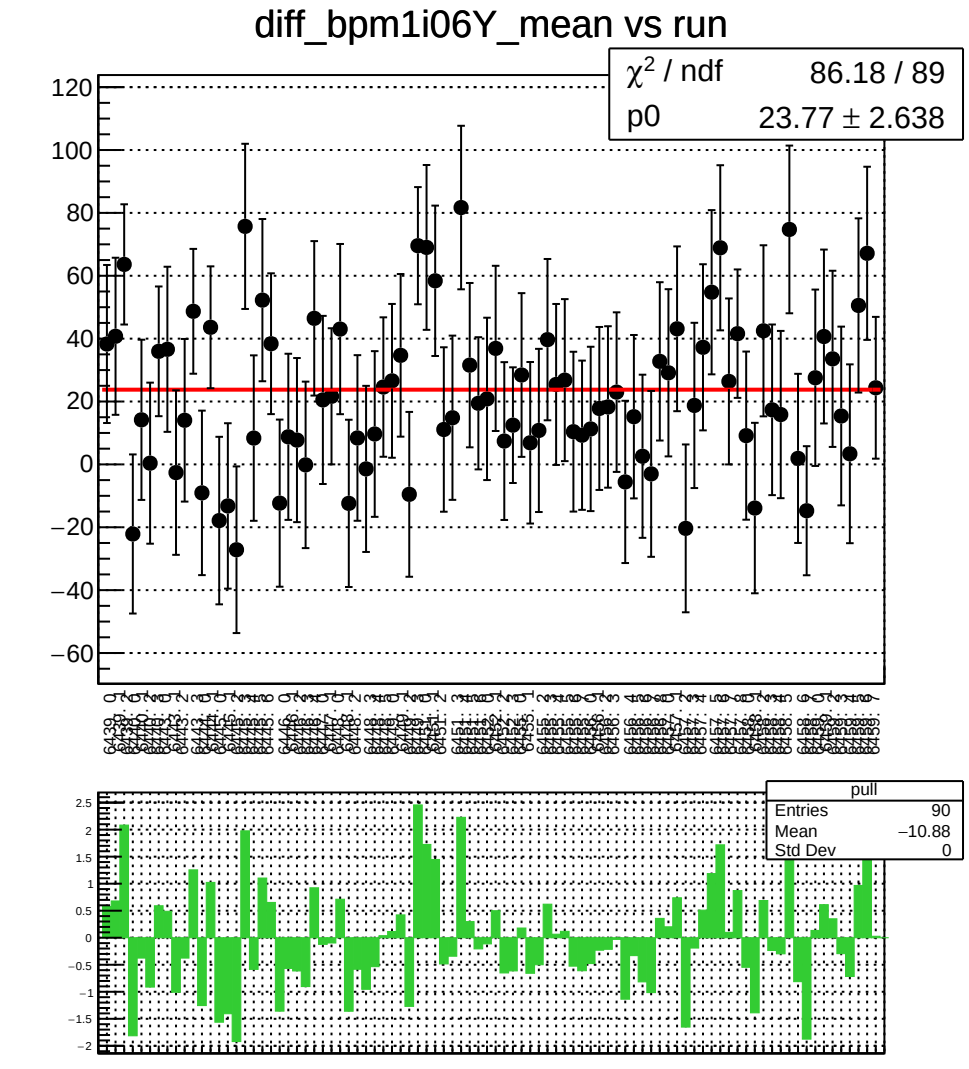

pull1D
Entries 90
Mean 0.006728
Std Dev 0.9782

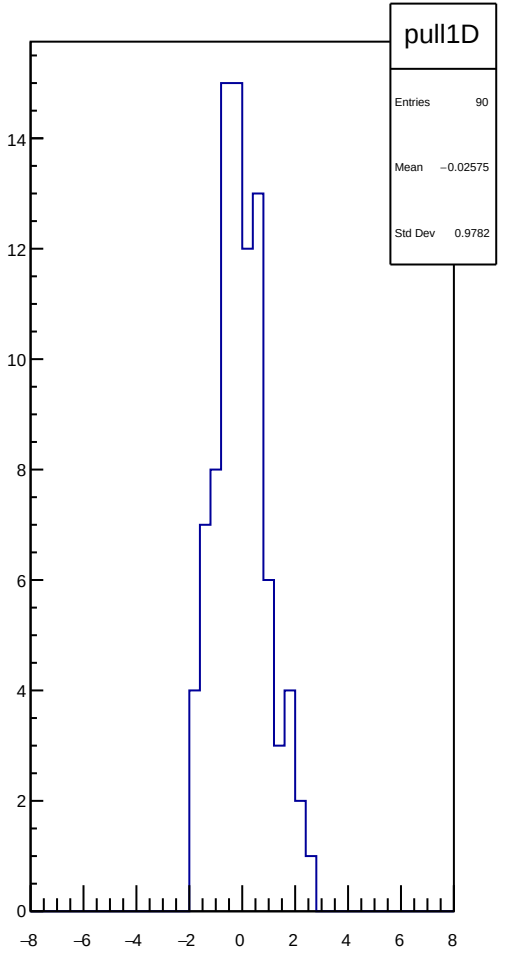

diff_bpm1i04Y_rms vs run
χ² / ndf 940.2 / 89
p0 611.2 ± 0.458
660
650
640
630
620
610
600
590
580
570

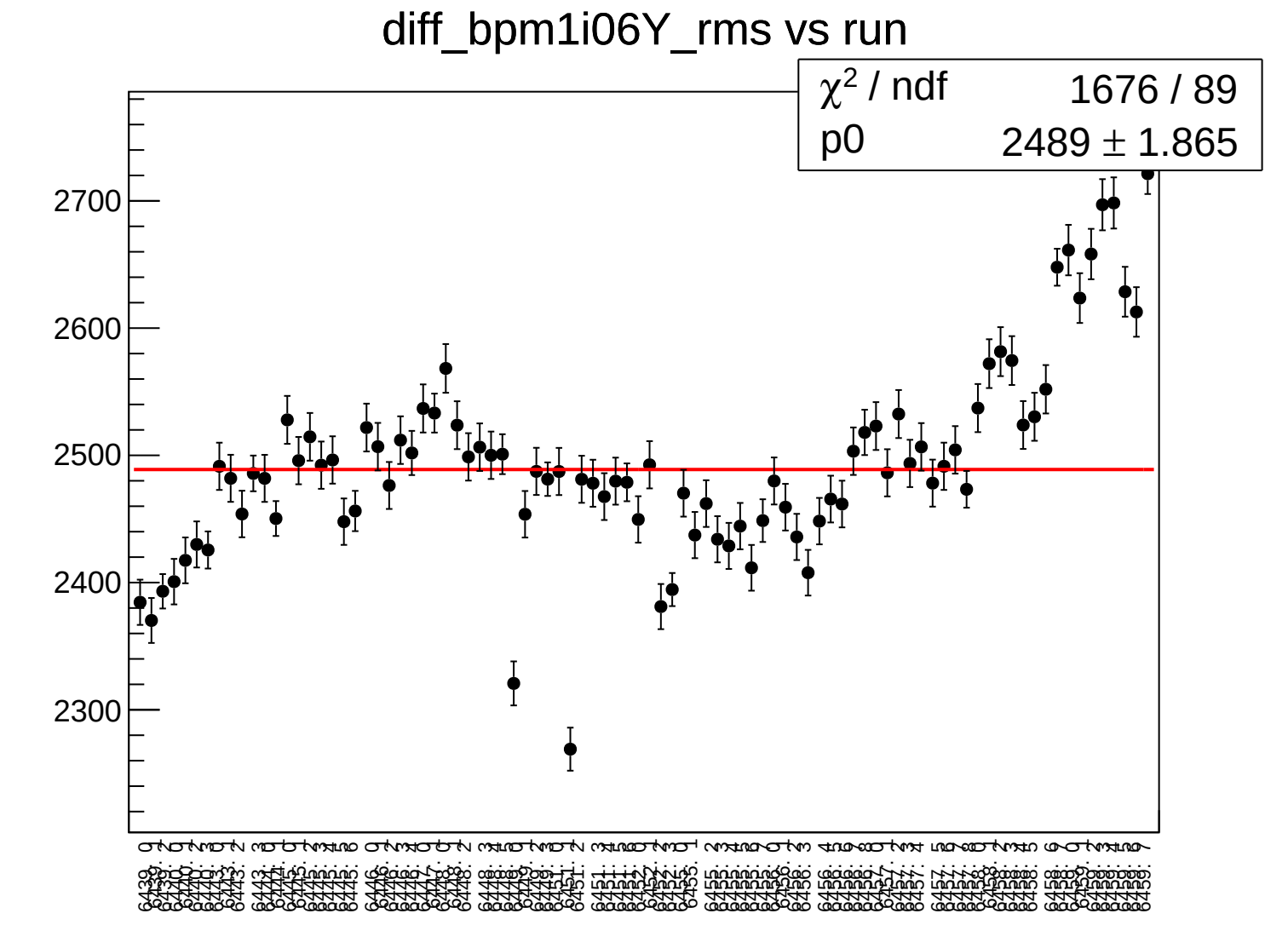

diff_bpm1i06X_mean vs run
χ^2 / ndf 85.73 / 89
p0 124.7 ± 2.467
pull
Entries 90
Mean −1059
Std Dev 0

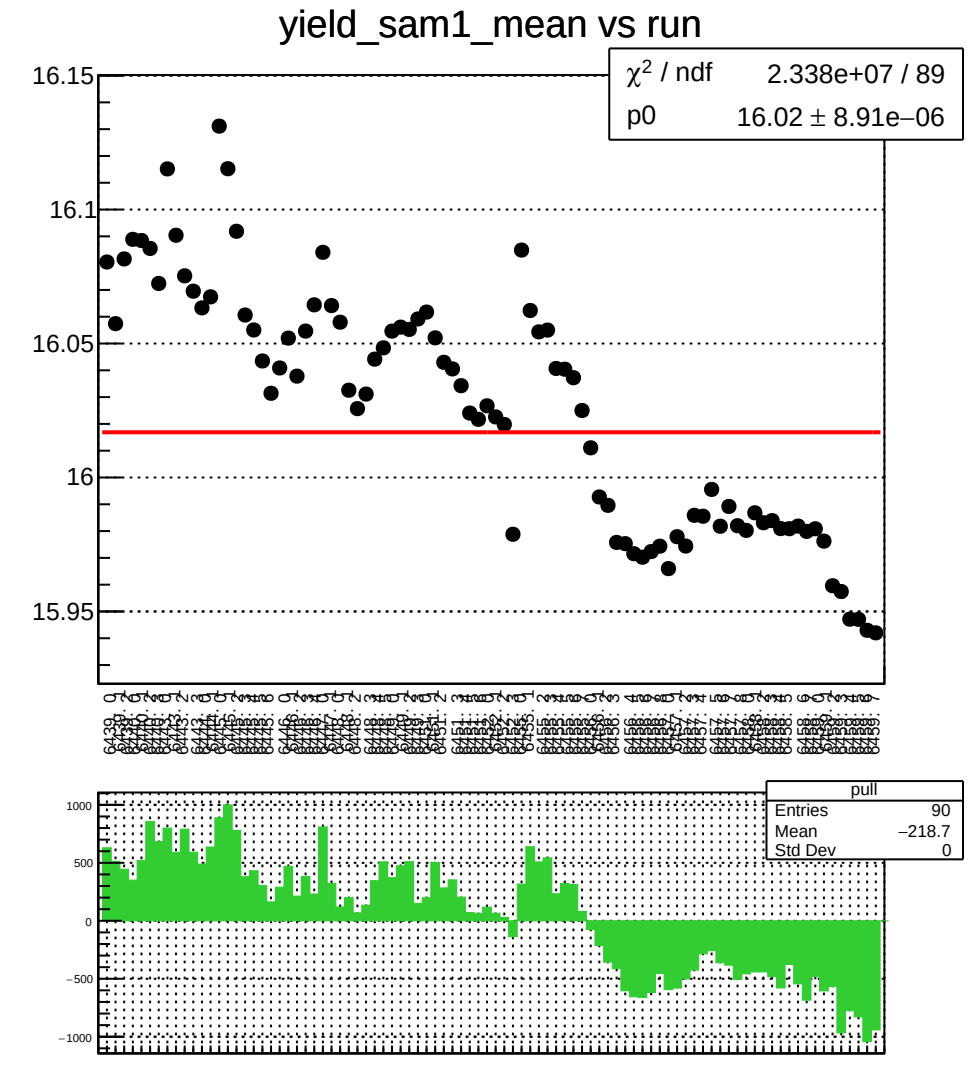

pull1D
Entries 90
Mean −0.006496
Std Dev 0.976

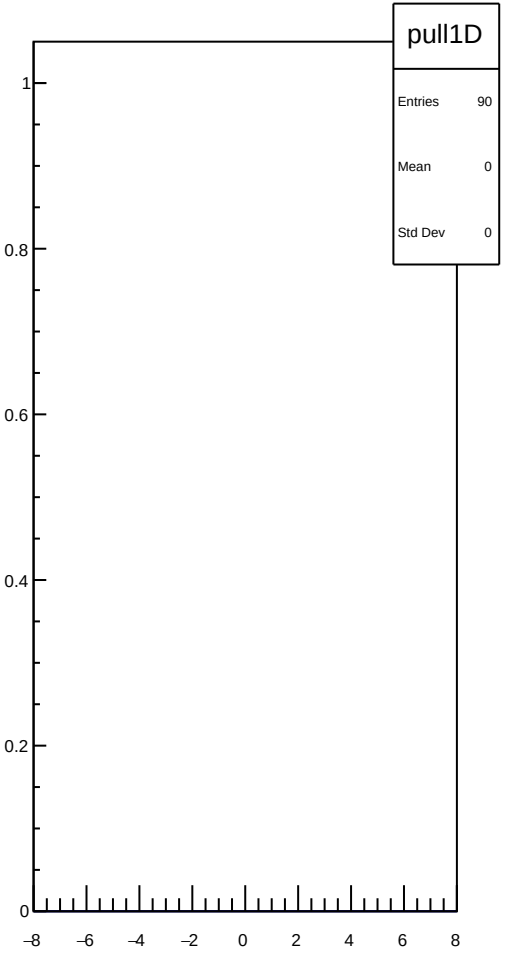

diff_bpm1i06X_rms vs run
χ² / ndf 2047 / 89
p0 2327 ± 1.744
2600
2550
2500
2450
2400
2350
2300
2250
2200
2150

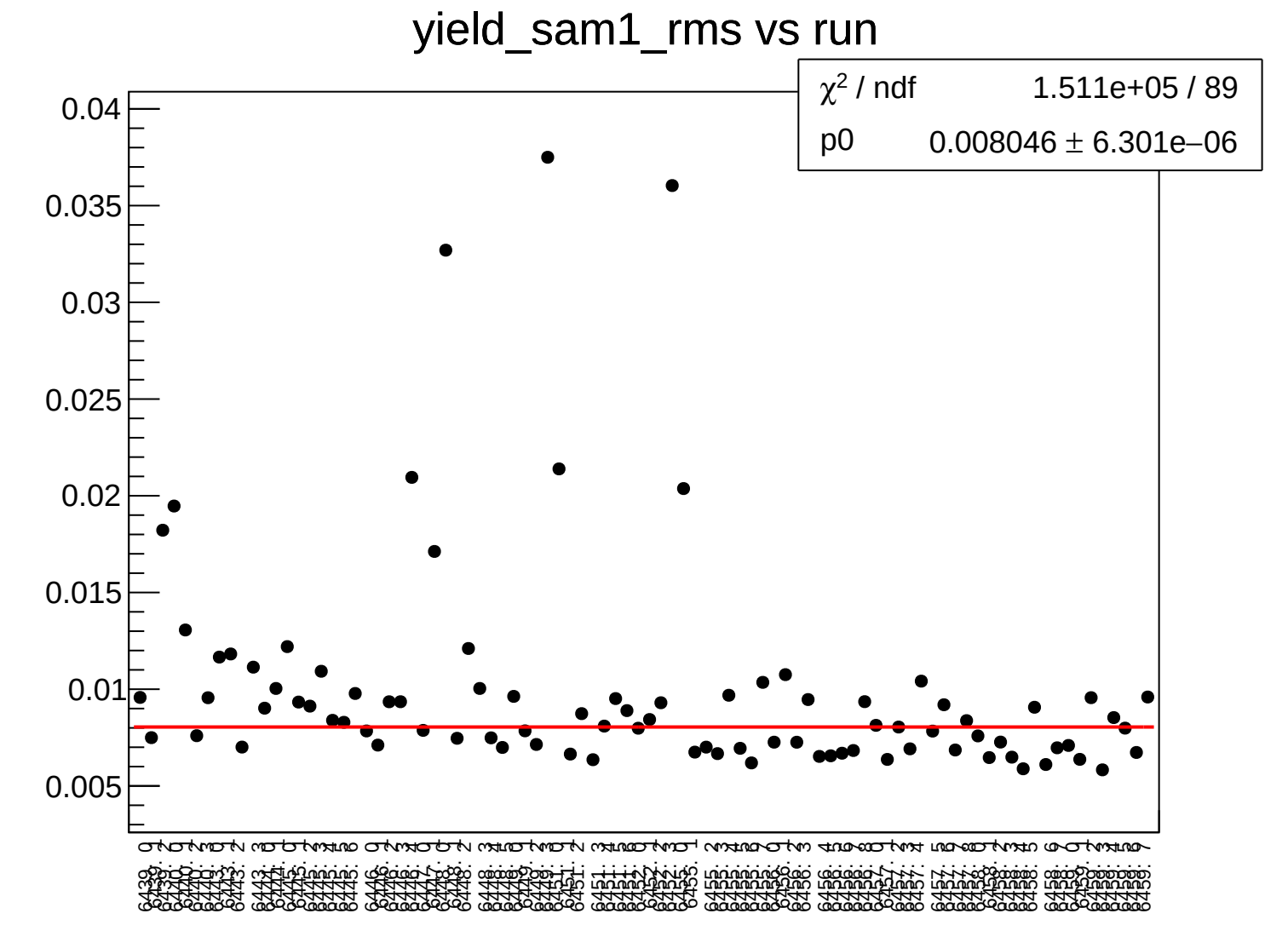

diff_bpm1i06Y_mean vs run
χ² / ndf 86.18 / 89
p0 23.77 ± 2.638
pull
Entries 90
Mean −10.88
Std Dev 0

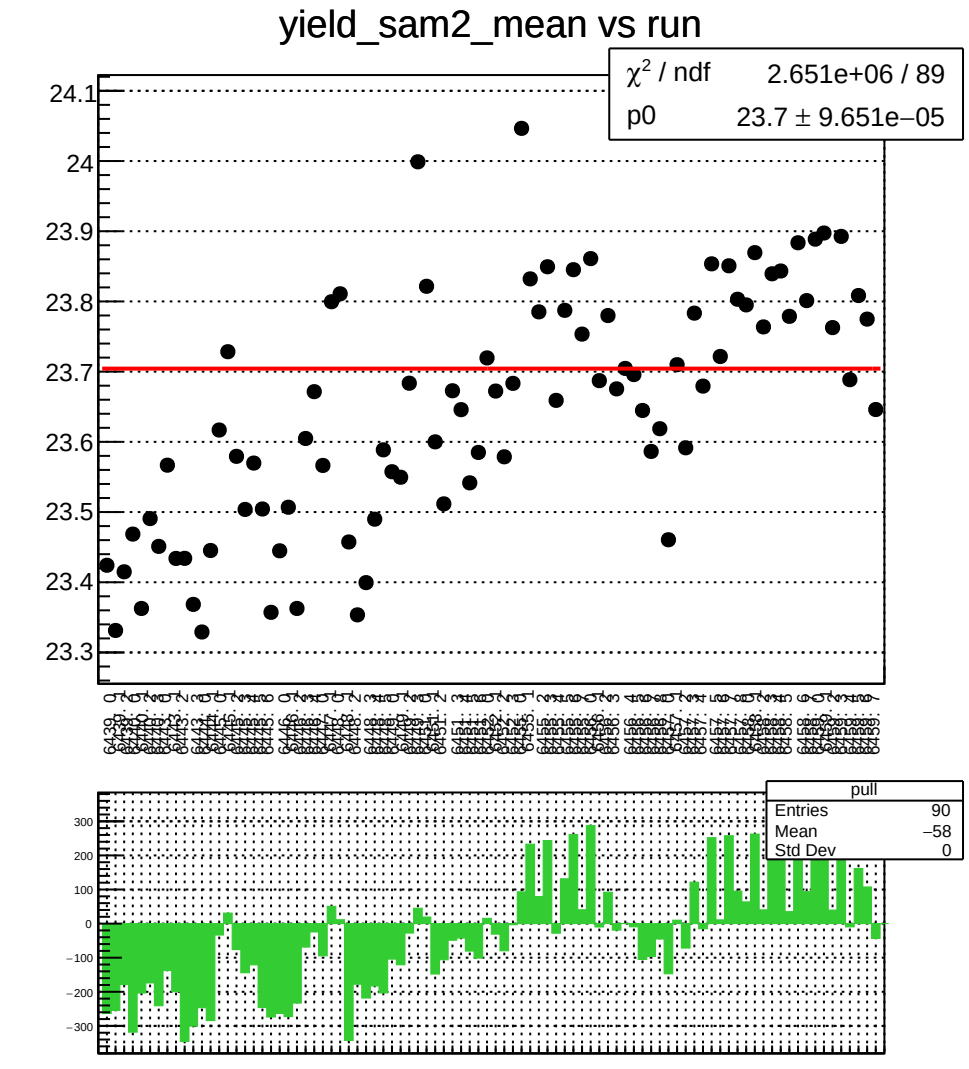

pull1D
Entries 90
Mean −0.02575
Std Dev 0.9782

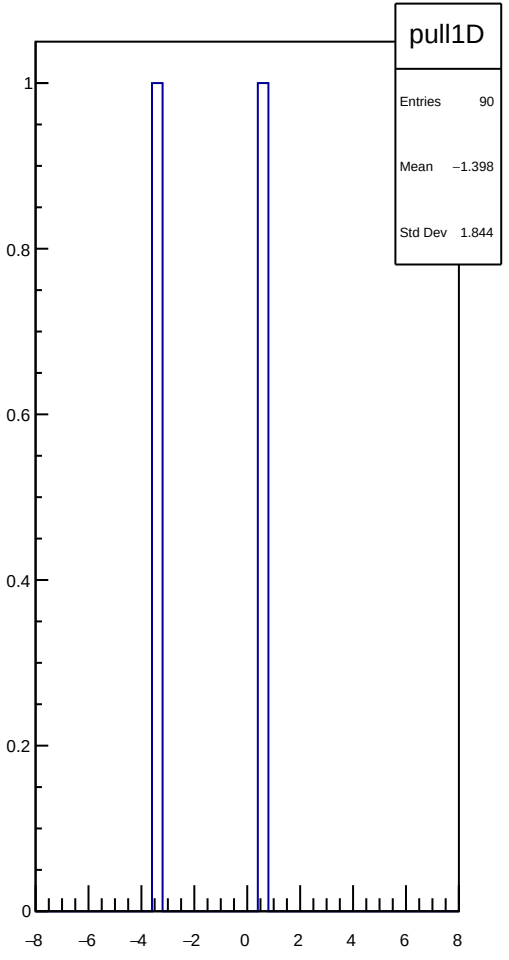

diff_bpm1i06Y_rms vs run
χ² / ndf 1676 / 89
p0 2489 ± 1.865
2700
2600
2500
2400
2300

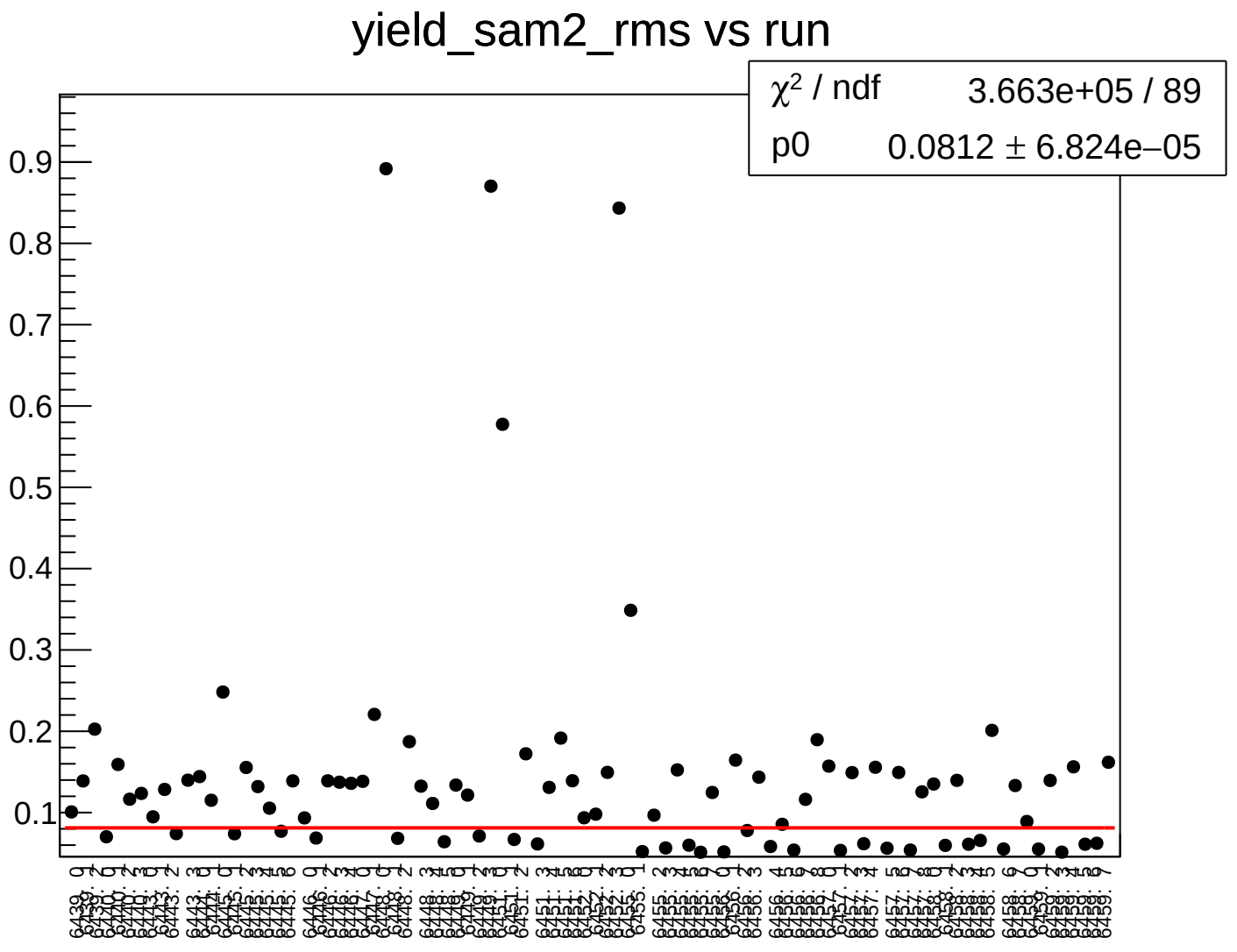

yield_sam1_mean vs run
χ² / ndf 2.338e+07 / 89
p0 16.02 ± 8.91e−06
16.15
16.1
16.05
16
15.95
pull
Entries 90
Mean −218.7
Std Dev 0
1000
500
0
−500
−1000

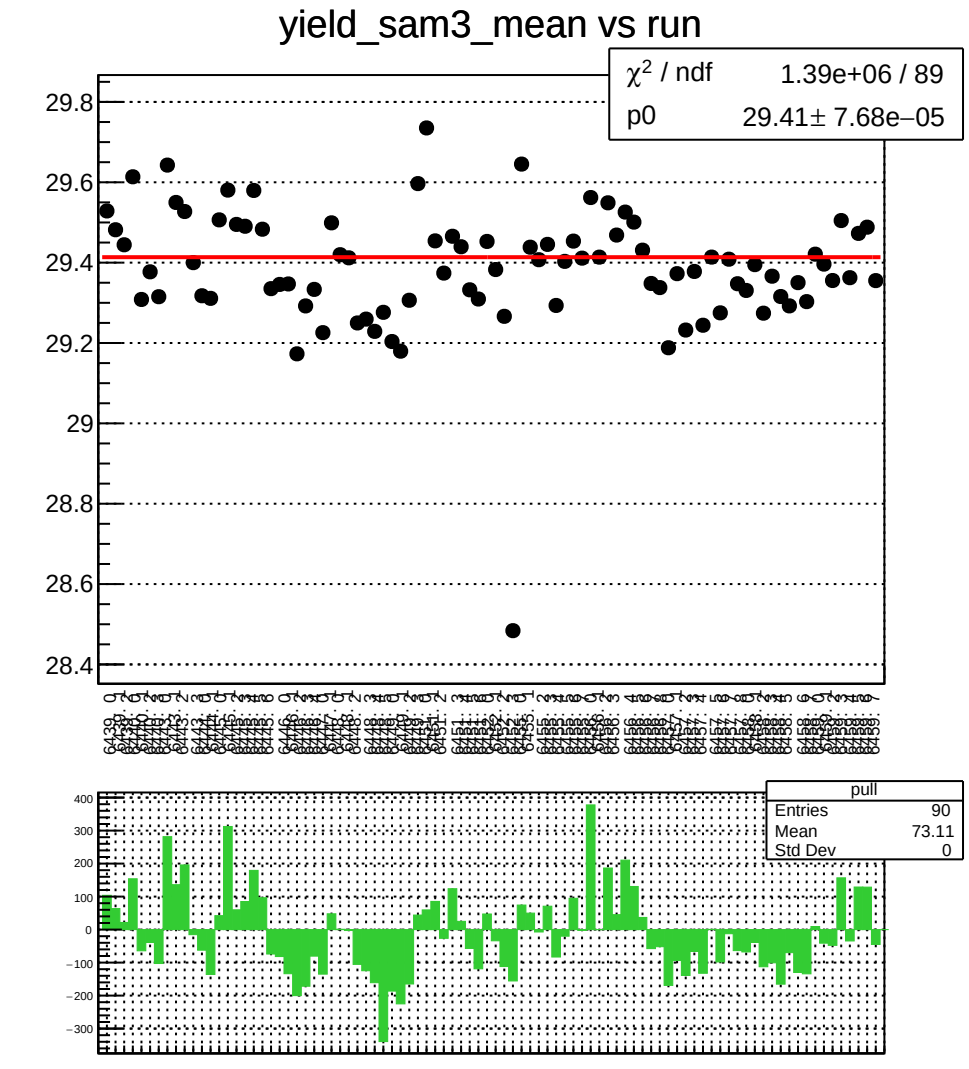

pull1D
Entries 90
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

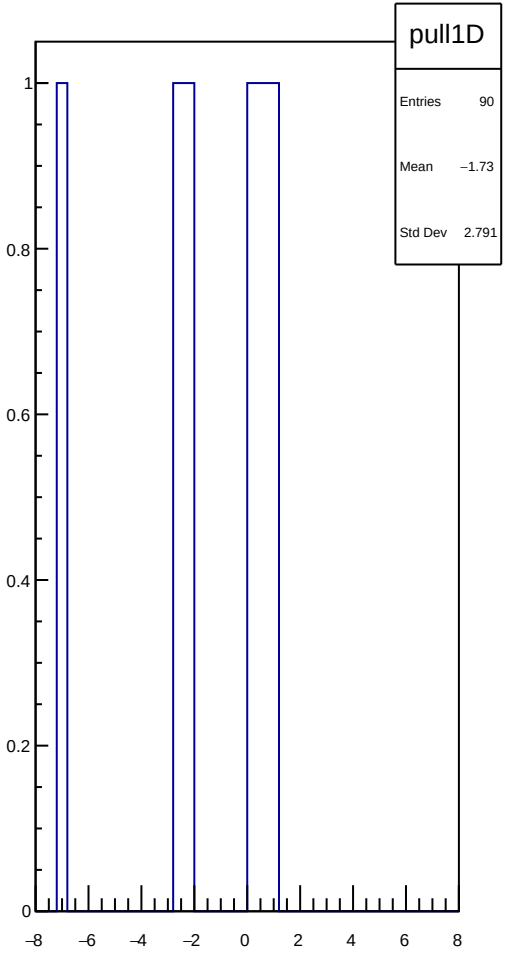

yield_sam1_rms vs run
χ^2 / ndf 1.511e+05 / 89
p0 0.008046 ± 6.301e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

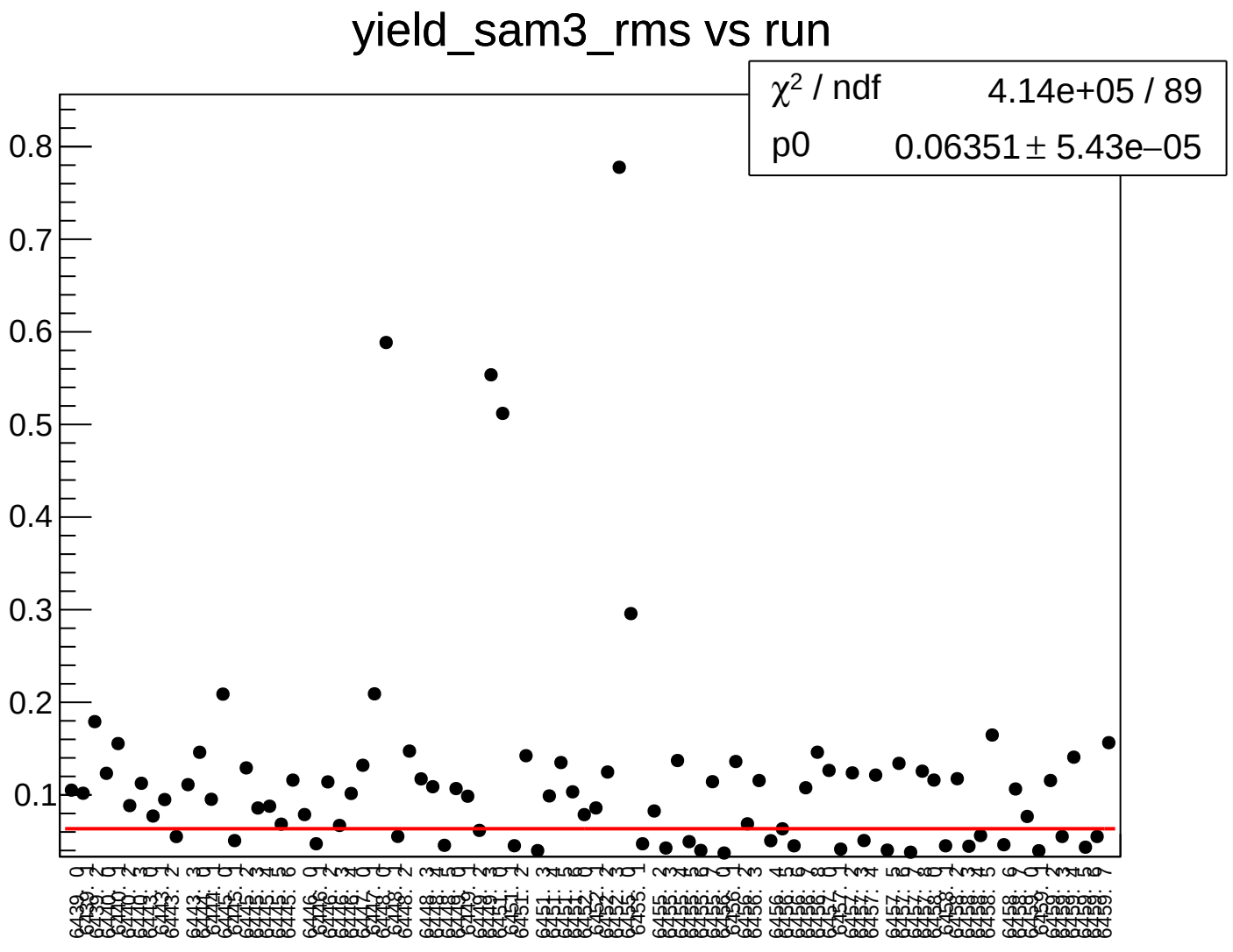

yield_sam2_mean vs run
χ² / ndf 2.651e+06 / 89
p0 23.7 ± 9.651e−05
24.1
24
23.9
23.8
23.7
23.6
23.5
23.4
23.3
pull
Entries 90
Mean −58
Std Dev 0
300
200
100
0
−100
−200
−300

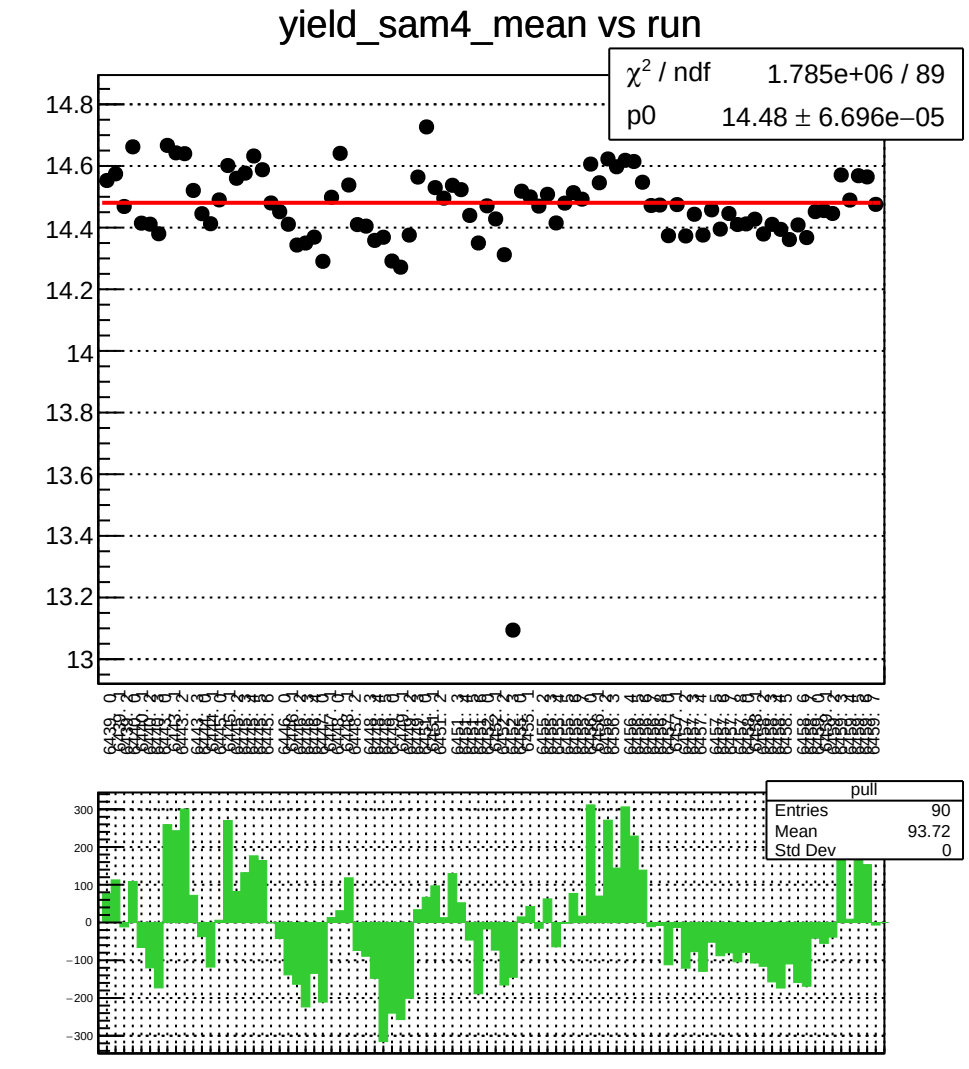

pull1D
Entries 90
Mean −1.398
Std Dev 1.844
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

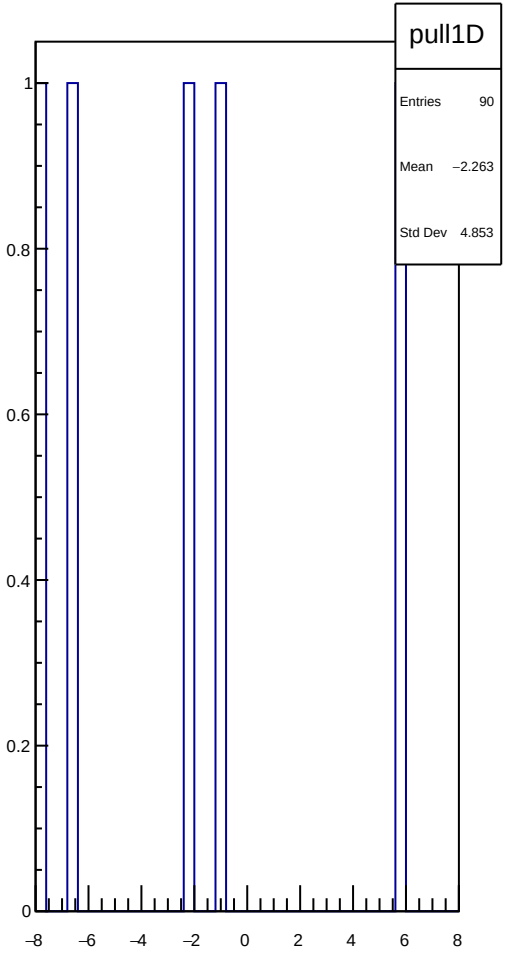

yield_sam2_rms vs run
χ² / ndf 3.663e+05 / 89
p0 0.0812 ± 6.824e−05
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

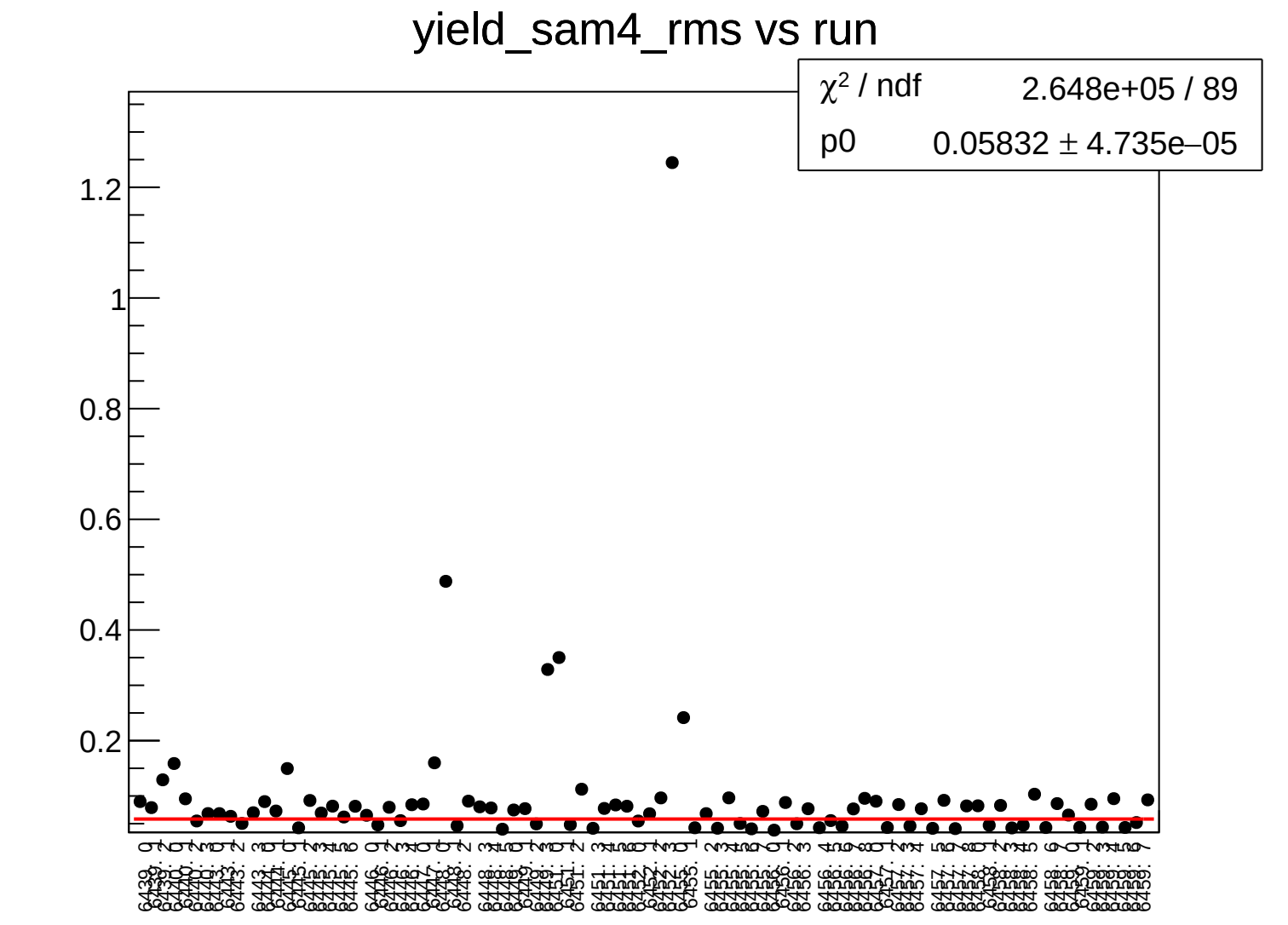

yield_sam3_mean vs run
χ² / ndf 1.39e+06 / 89
p0 29.41± 7.68e−05
29.8
29.6
29.4
29.2
29
28.8
28.6
28.4
pull
Entries 90
Mean 73.11
Std Dev 0
400
300
200
100
0
−100
−200
−300

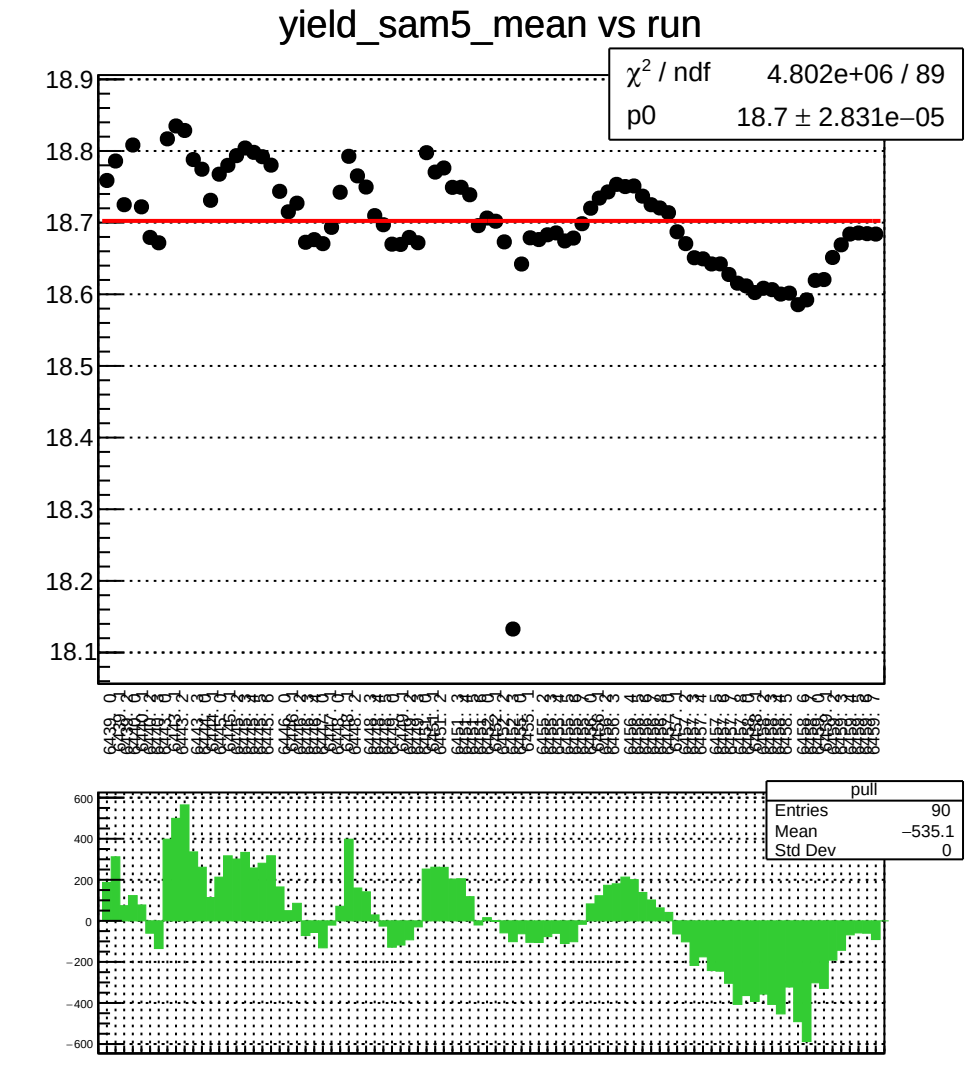

pull1D
Entries 90
Mean −1.73
Std Dev 2.791
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

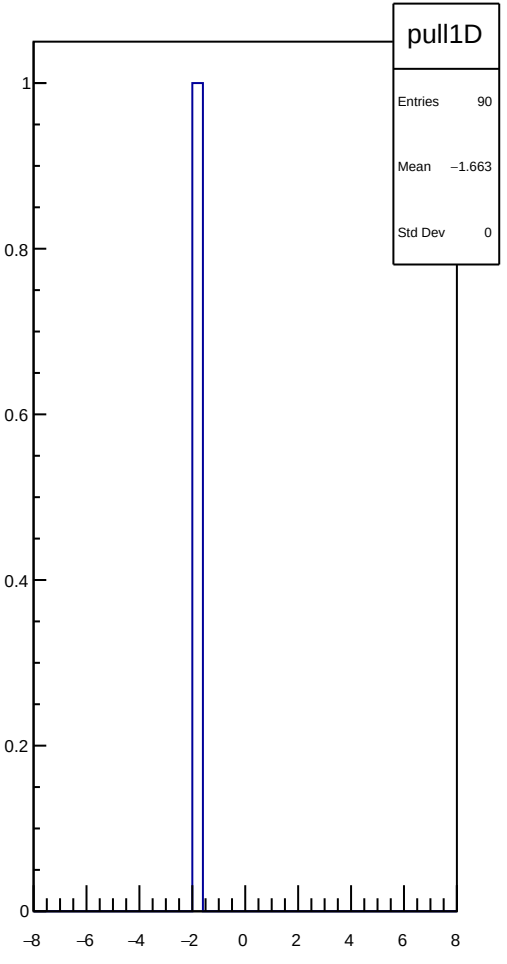

yield_sam3_rms vs run
χ² / ndf 4.14e+05 / 89
p0 0.06351 ± 5.43e−05
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

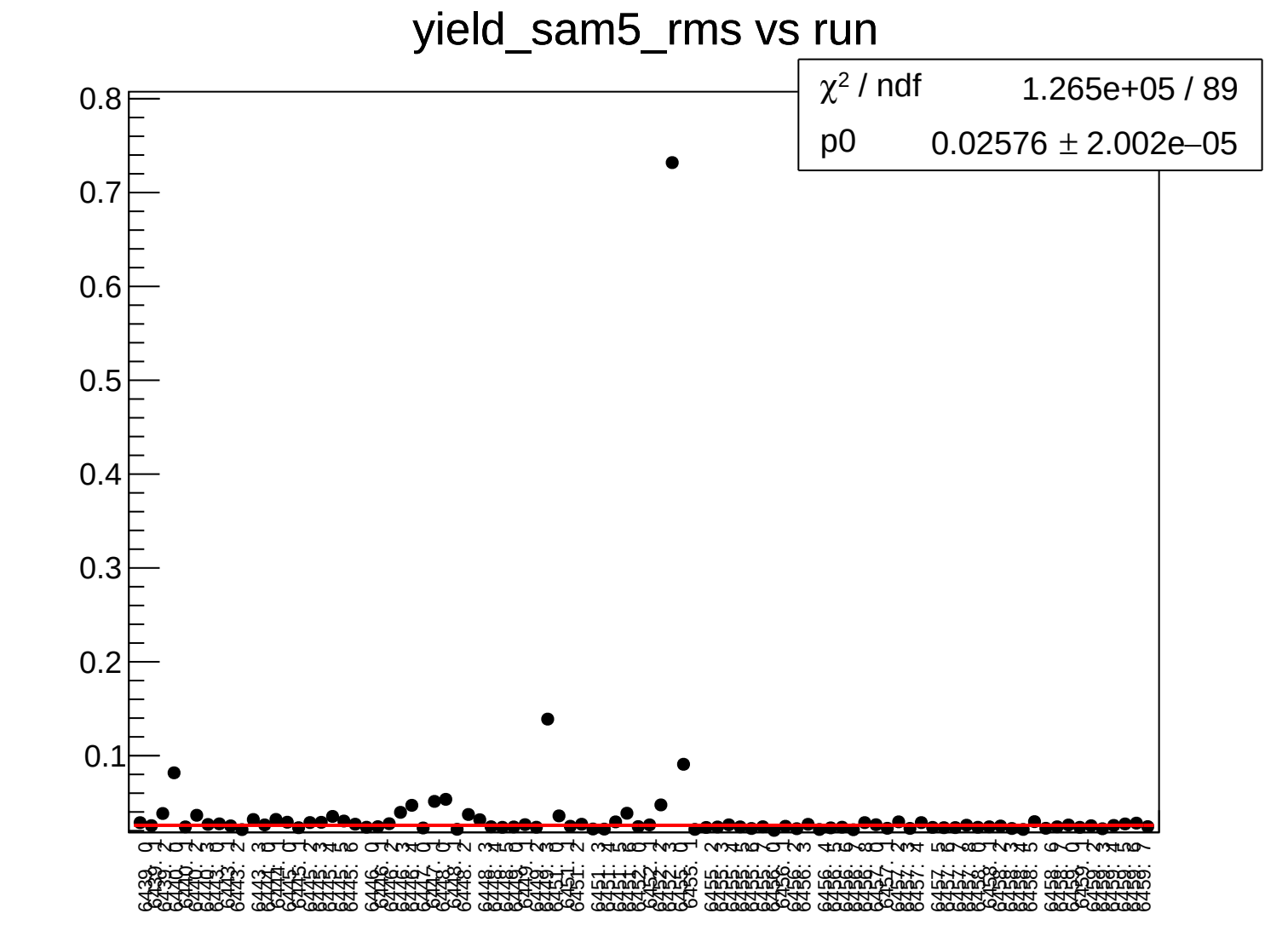

yield_sam4_mean vs run
χ² / ndf 1.785e+06 / 89
p0 14.48 ± 6.696e−05
14.8
14.6
14.4
14.2
14
13.8
13.6
13.4
13.2
13
pull
Entries 90
Mean 93.72
Std Dev 0
300
200
100
0
−100
−200
−300

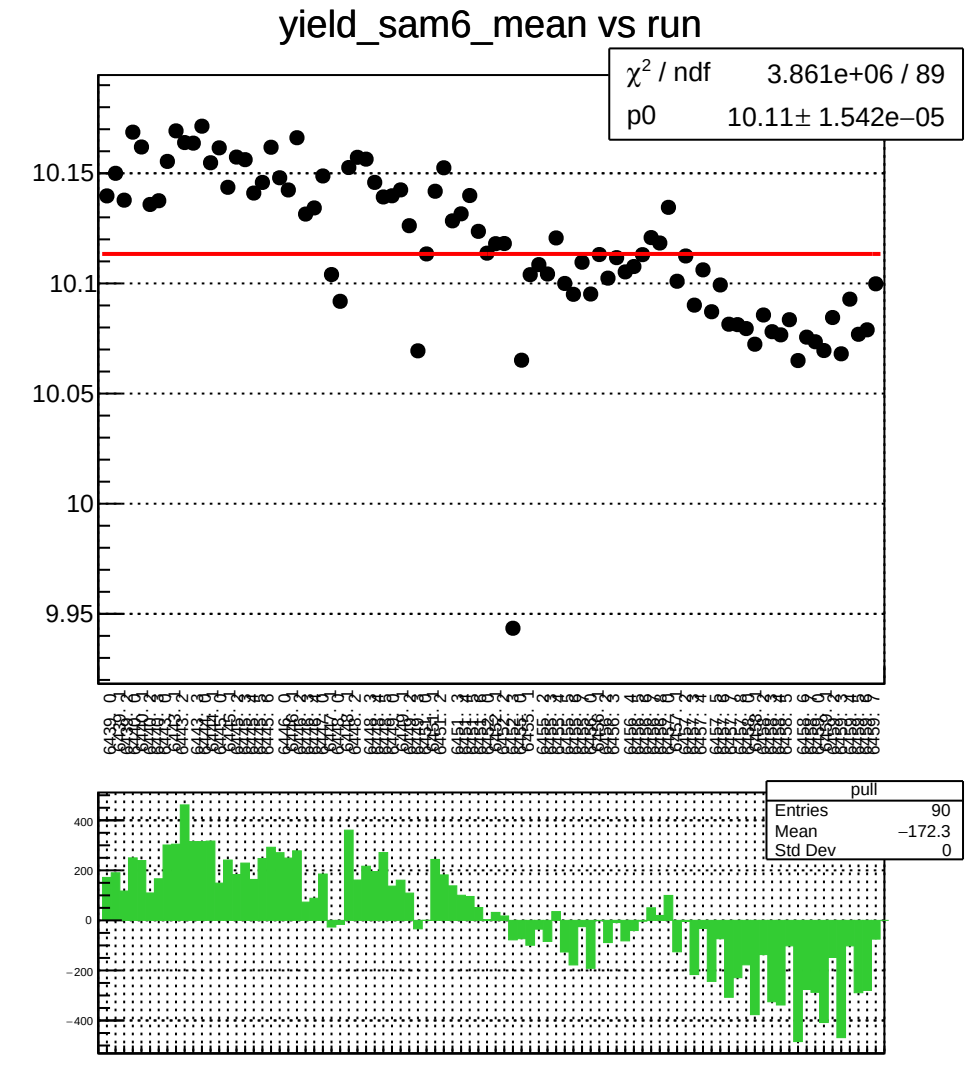

pull1D
Entries 90
Mean −2.263
Std Dev 4.853
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

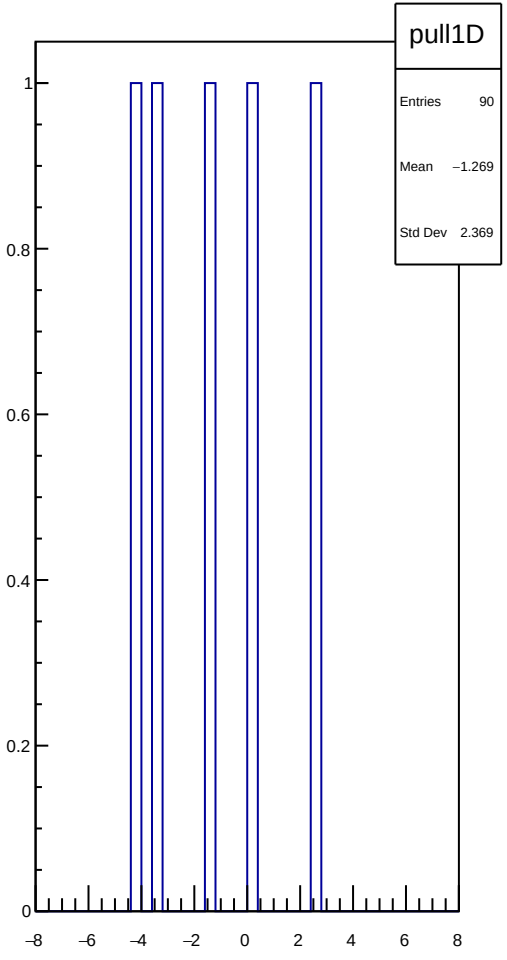

yield_sam4_rms vs run
χ² / ndf 2.648e+05 / 89
p0 0.05832 ± 4.735e−05
1.2
1
0.8
0.6
0.4
0.2

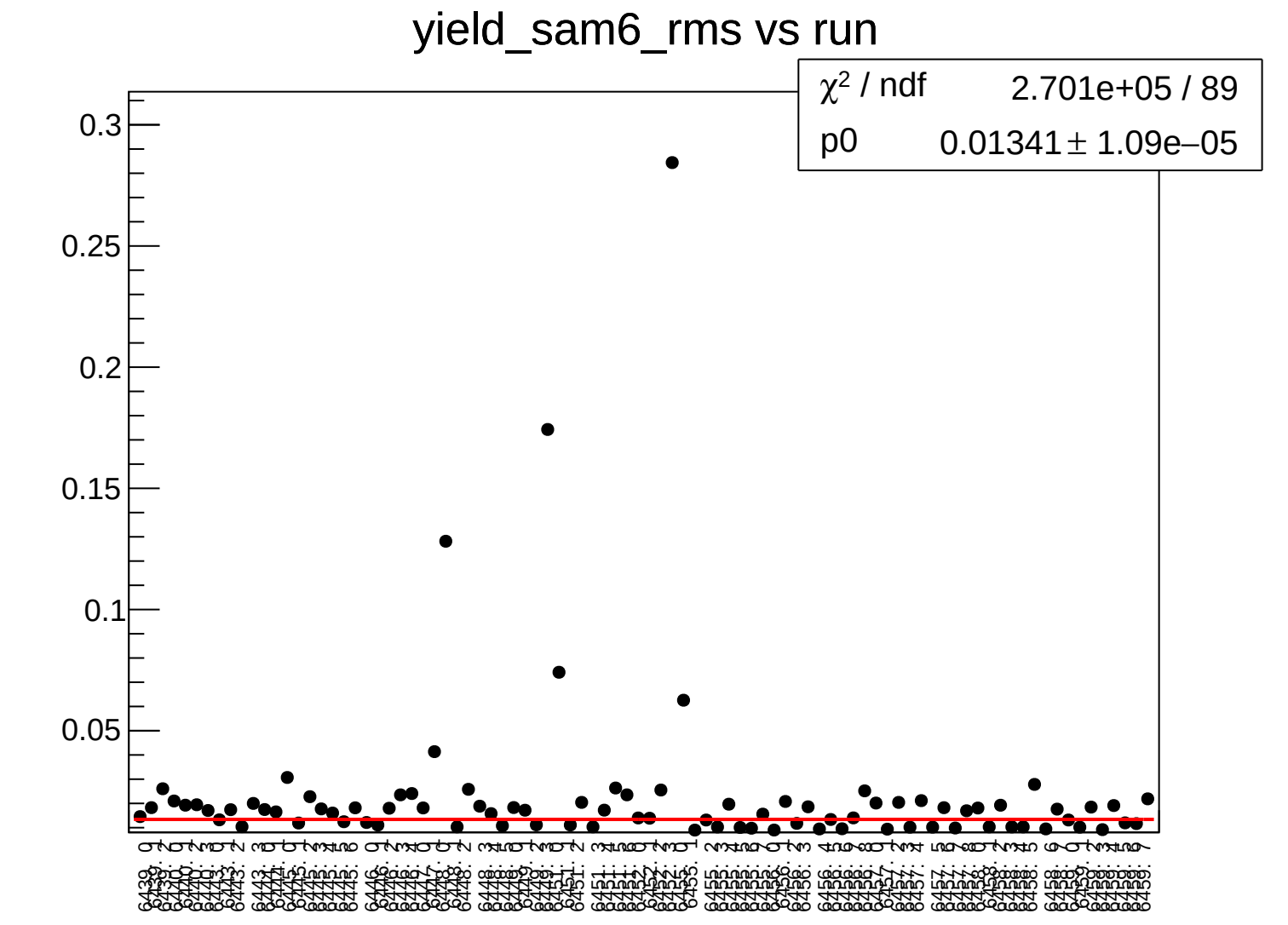

yield_sam5_mean vs run
χ² / ndf 4.802e+06 / 89
p0 18.7 ± 2.831e−05
18.9
18.8
18.7
18.6
18.5
18.4
18.3
18.2
18.1
pull
Entries 90
Mean −535.1
Std Dev 0
600
400
200
0
−200
−400
−600

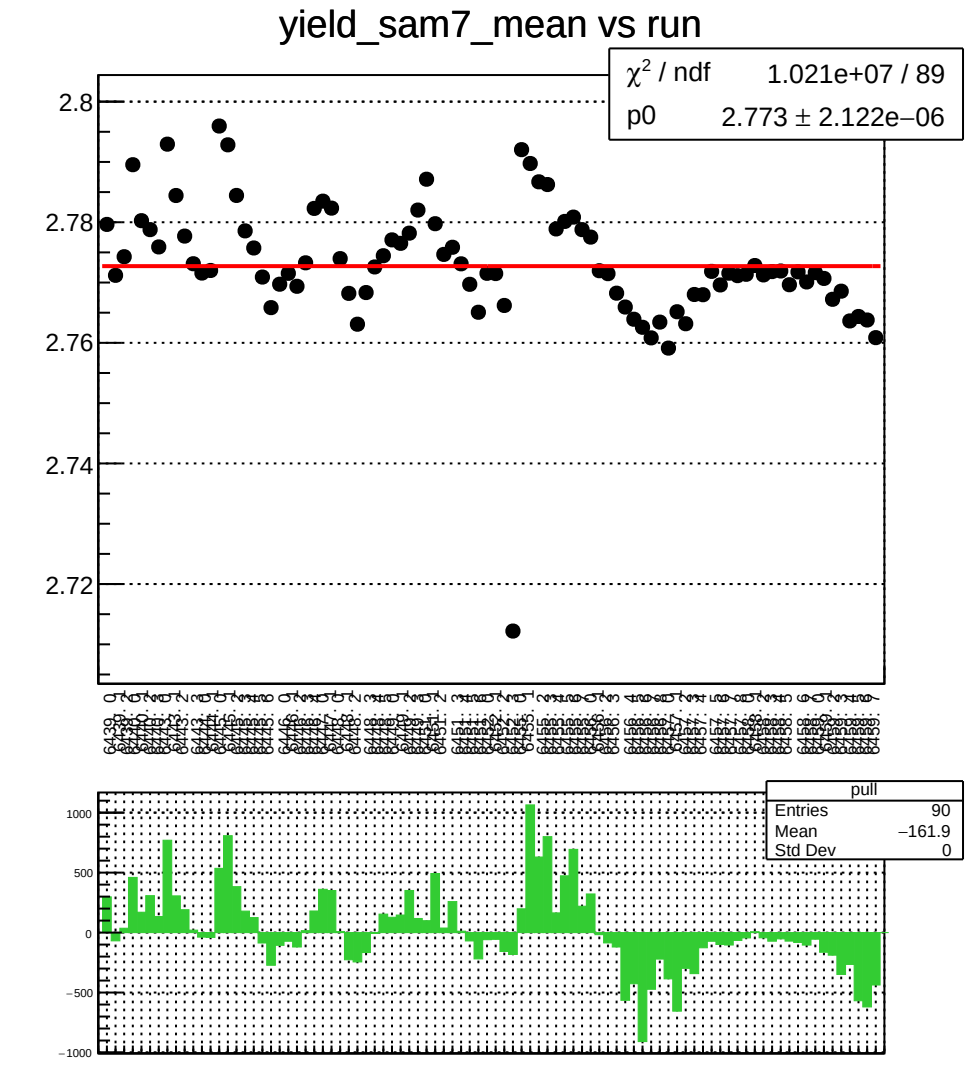

pull1D
Entries 90
Mean −1.663
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

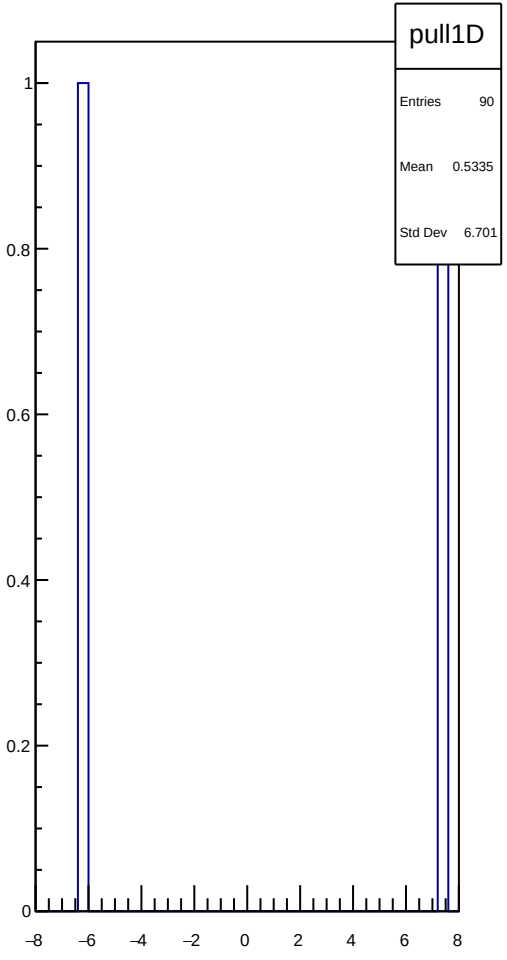

yield_sam5_rms vs run
χ² / ndf 1.265e+05 / 89
p0 0.02576 ± 2.002e−05
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

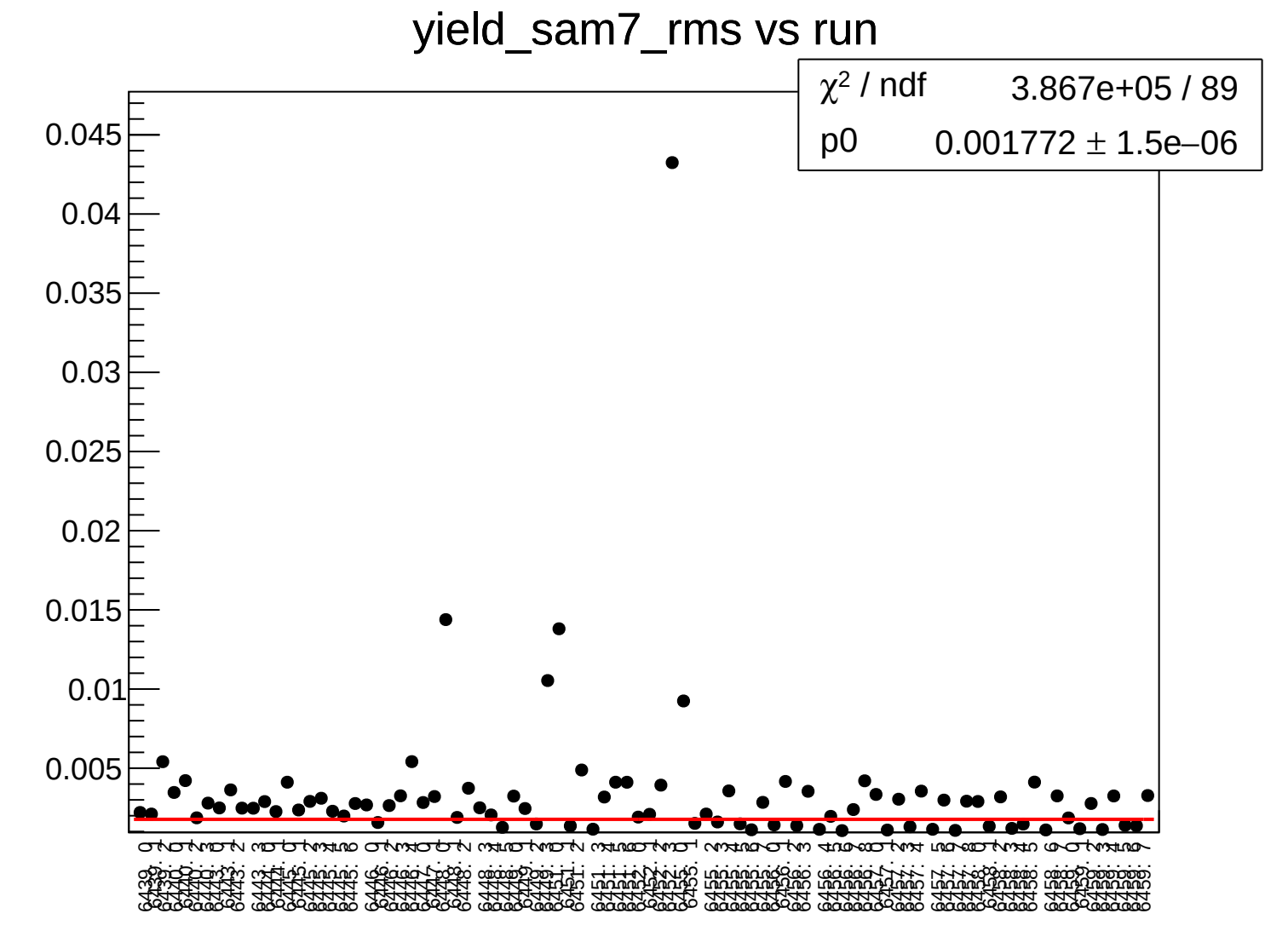

yield_sam6_mean vs run
χ² / ndf 3.861e+06 / 89
p0 10.11± 1.542e−05
10.15
10.1
10.05
10
9.95
pull
Entries 90
Mean −172.3
Std Dev 0
400
200
0
−200
−400

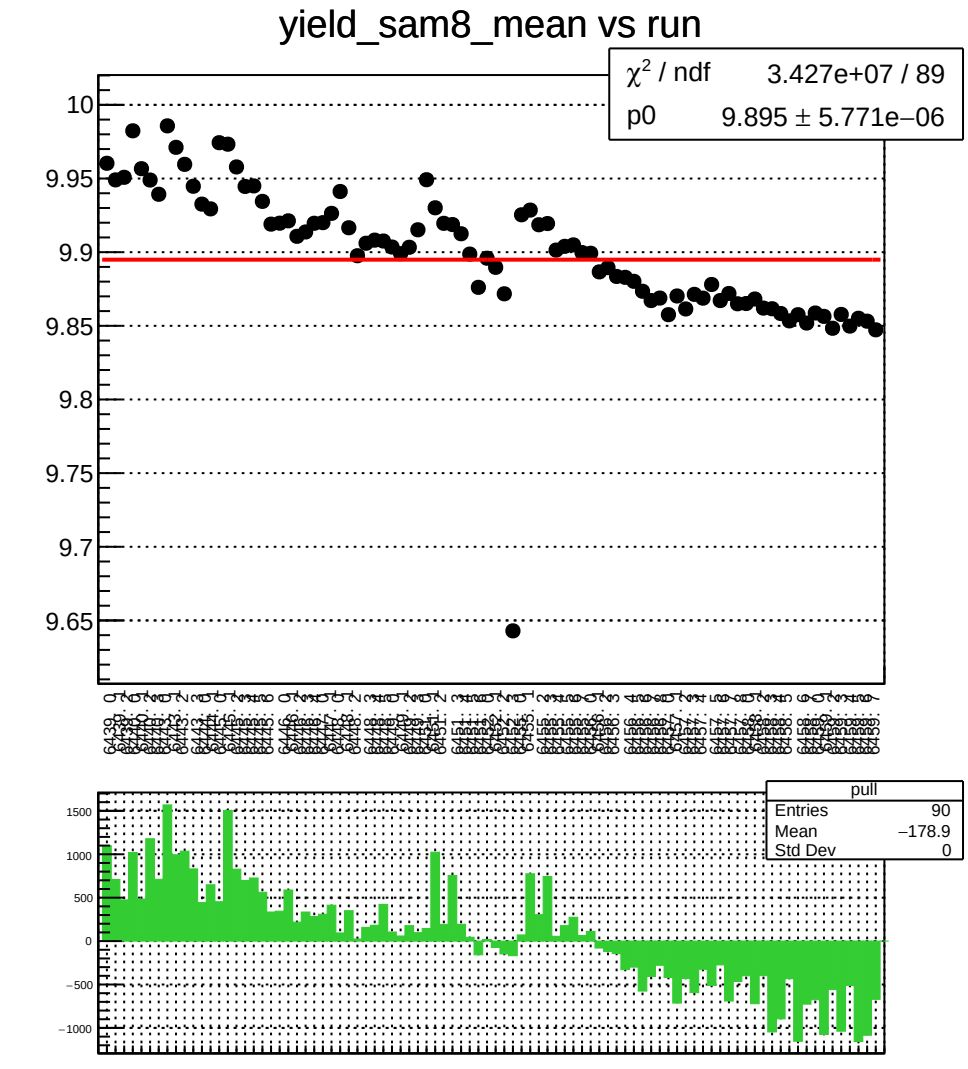

pull1D
Entries 90
Mean −1.269
Std Dev 2.369
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

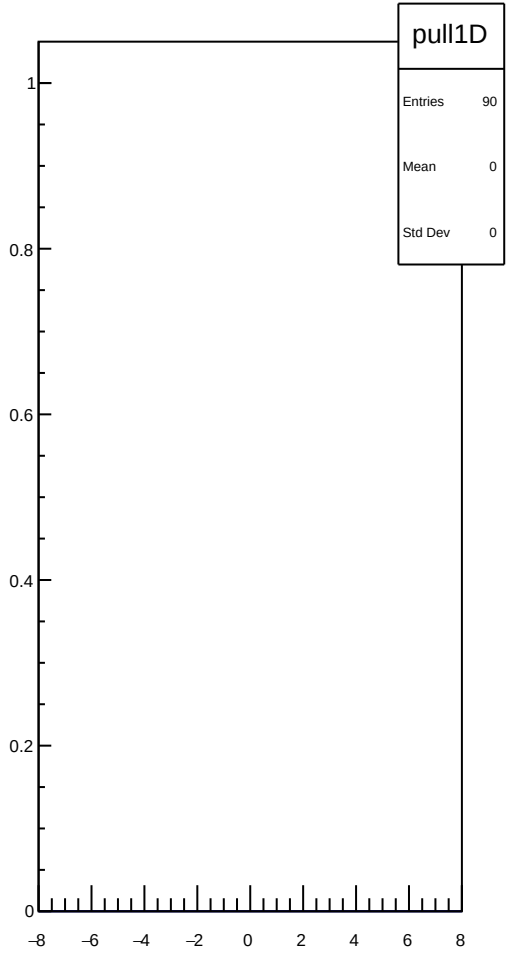

yield_sam6_rms vs run
χ² / ndf 2.701e+05 / 89
p0 0.01341 ± 1.09e−05
0.3
0.25
0.2
0.15
0.1
0.05

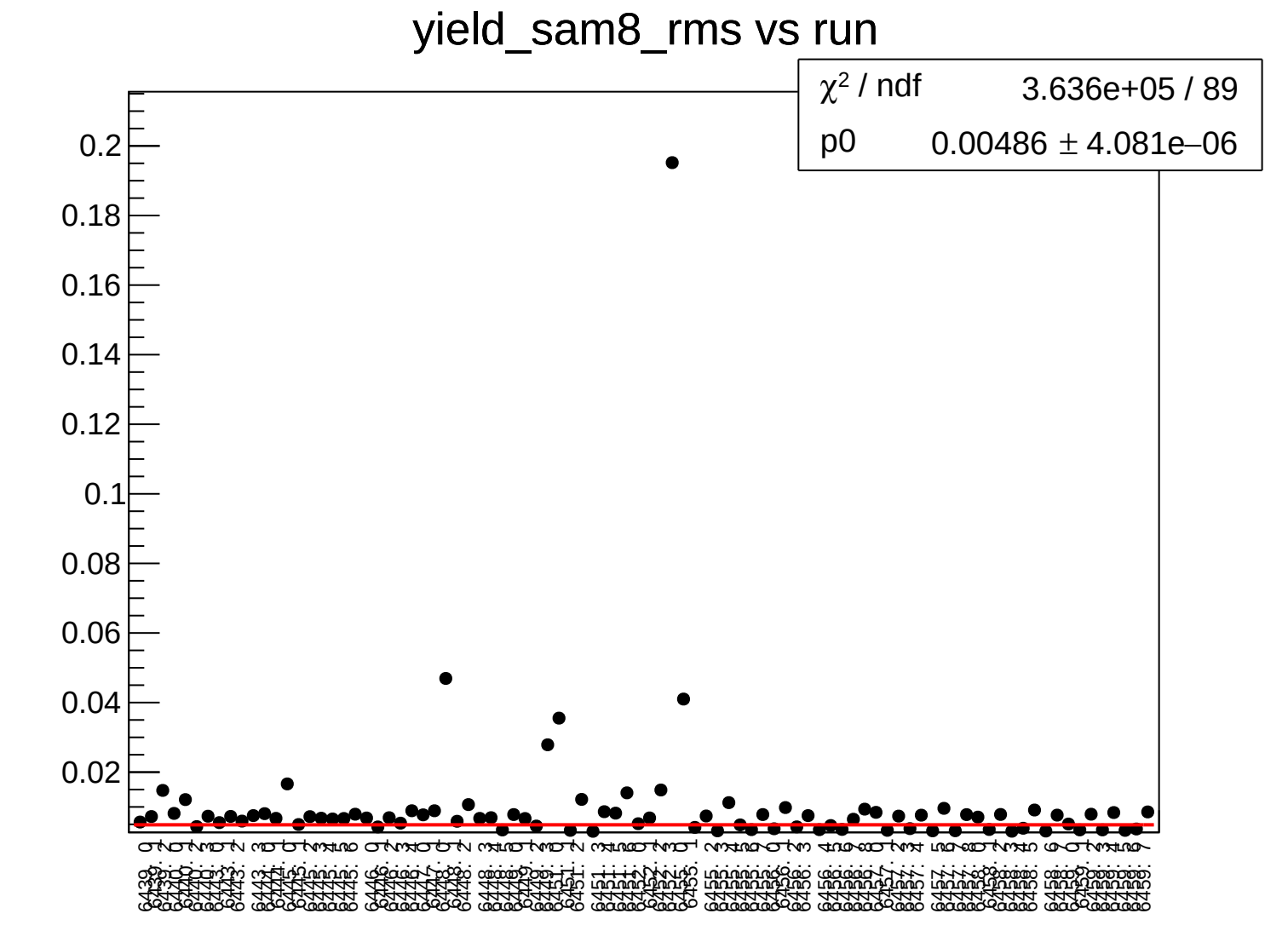

yield_sam7_mean vs run
χ² / ndf 1.021e+07 / 89
p0 2.773 ± 2.122e−06
2.8
2.78
2.76
2.74
2.72
pull
Entries 90
Mean −161.9
Std Dev 0
1000
500
0
−500
−1000

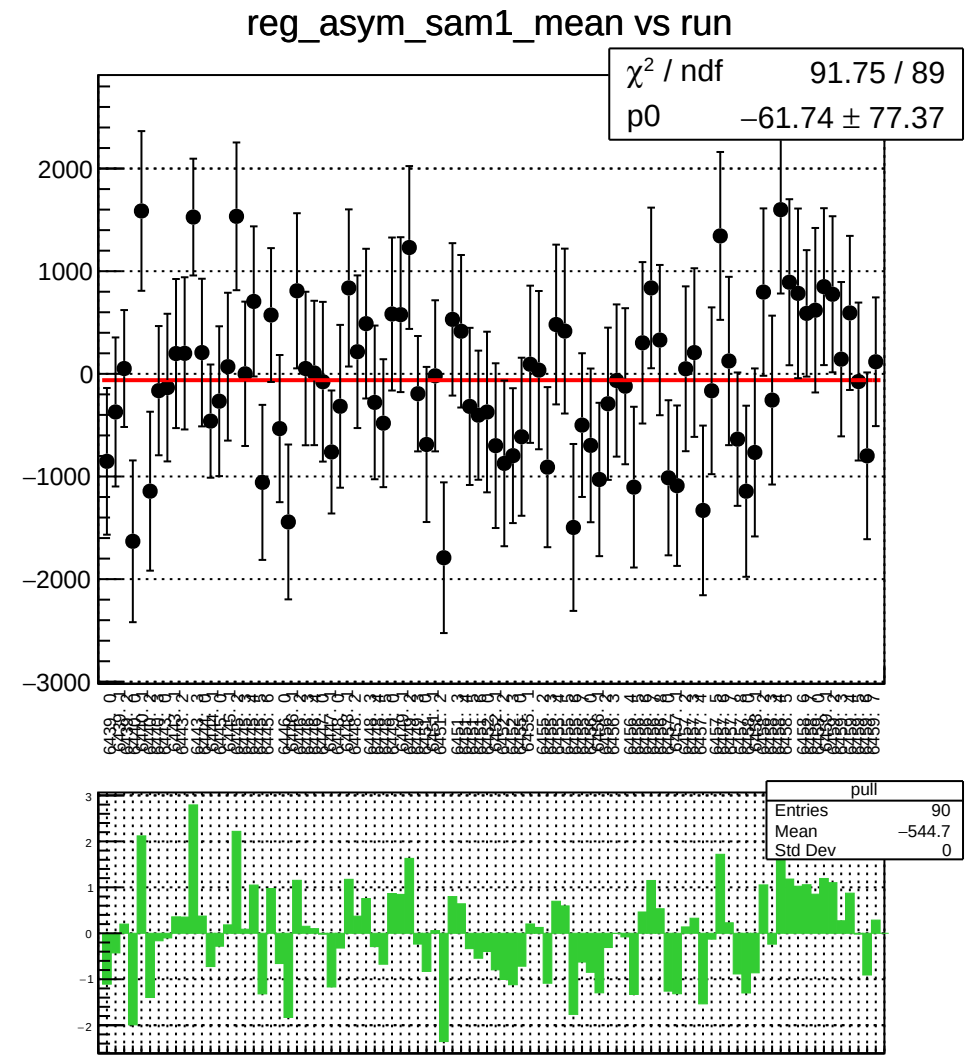

pull1D
Entries 90
Mean 0.5335
Std Dev 6.701
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

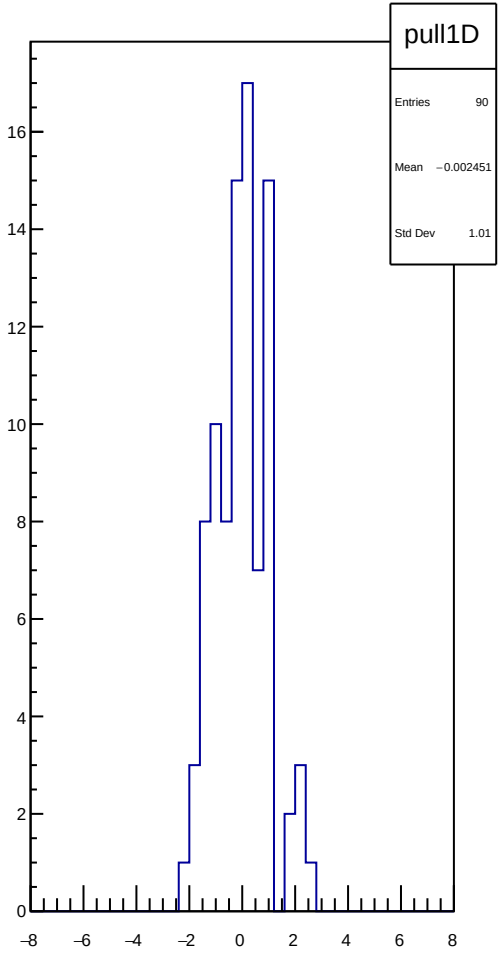

yield_sam7_rms vs run
χ² / ndf 3.867e+05 / 89
p0 0.001772 ± 1.5e−06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

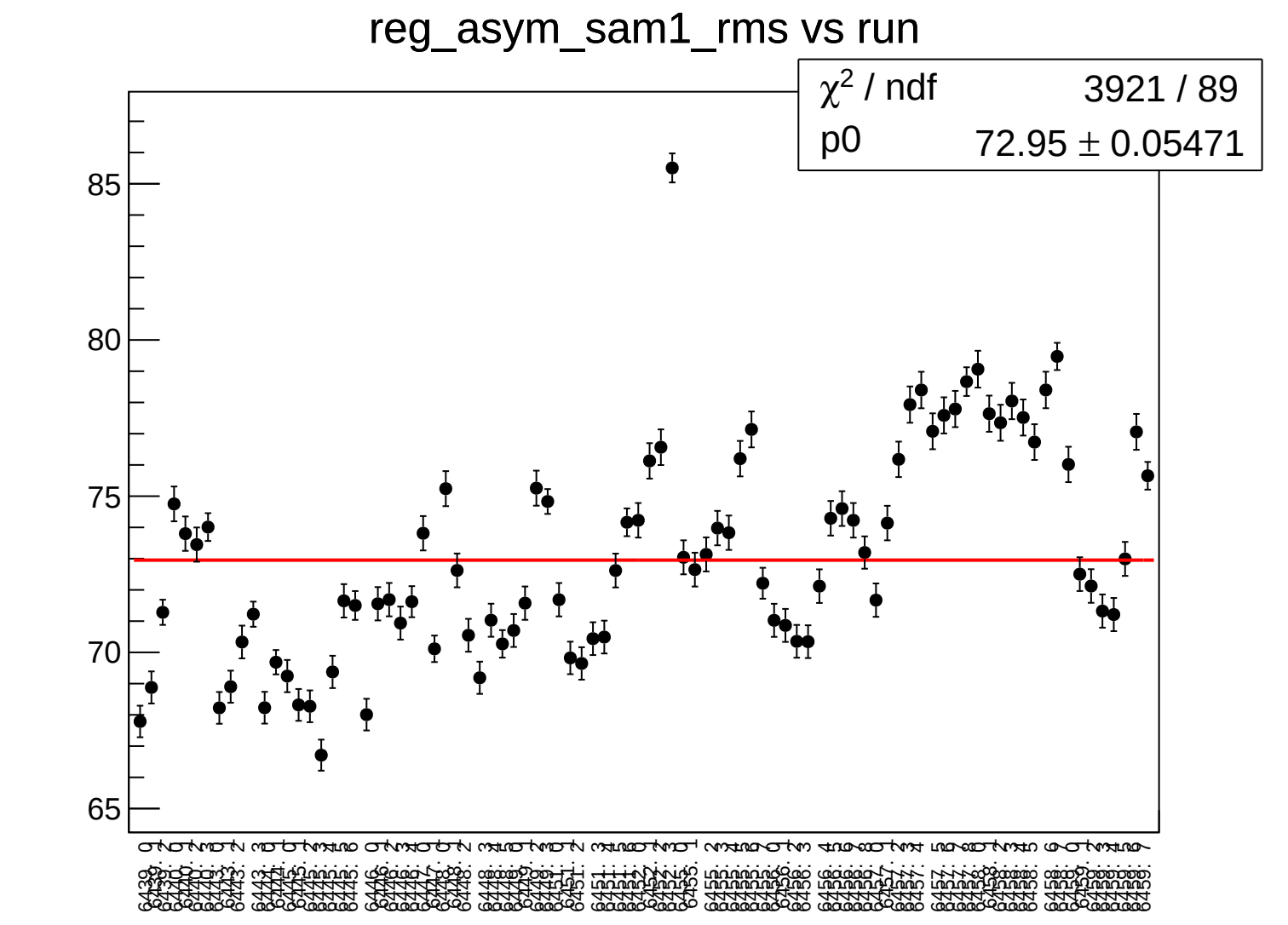

yield_sam8_mean vs run
χ² / ndf 3.427e+07 / 89
p0 9.895 ± 5.771e−06
10
9.95
9.9
9.85
9.8
9.75
9.7
9.65
pull
Entries 90
Mean −178.9
Std Dev 0
1500
1000
500
0
−500
−1000

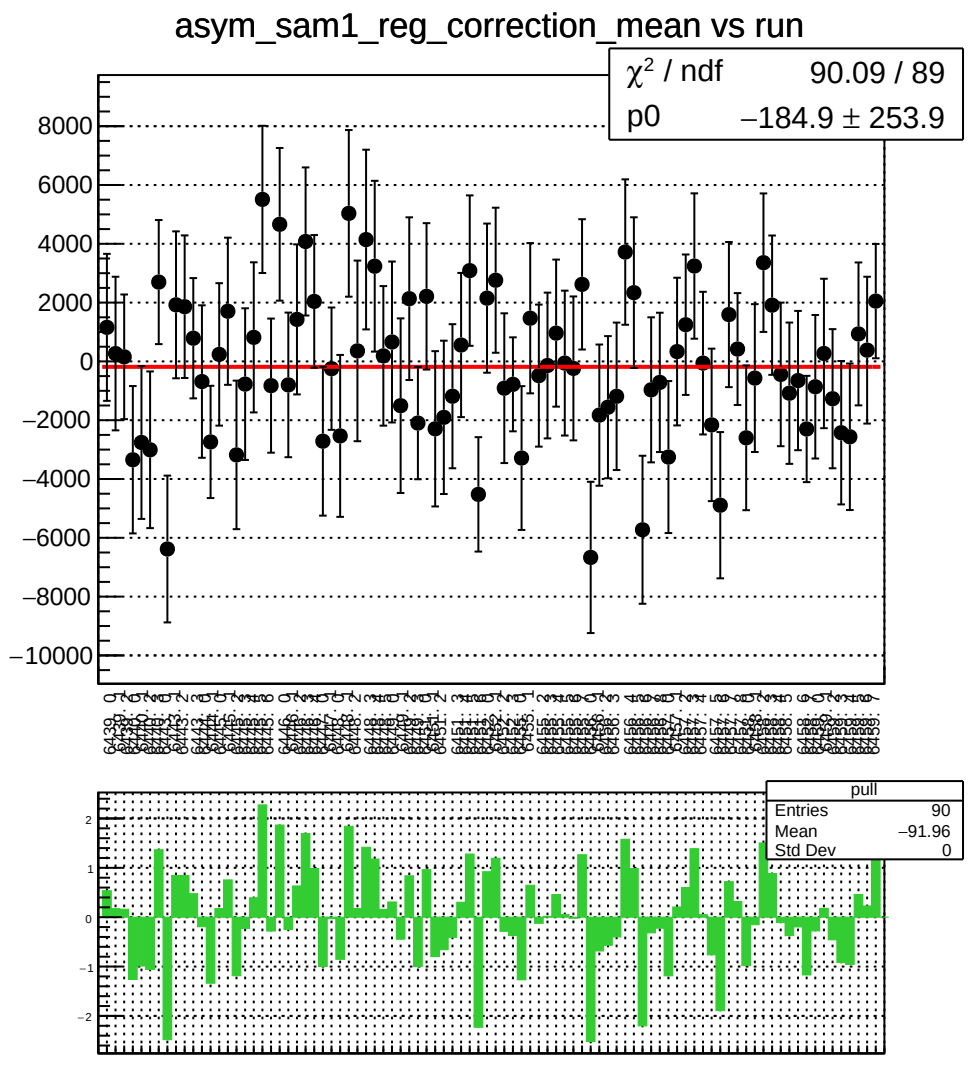

pull1D
Entries 90
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

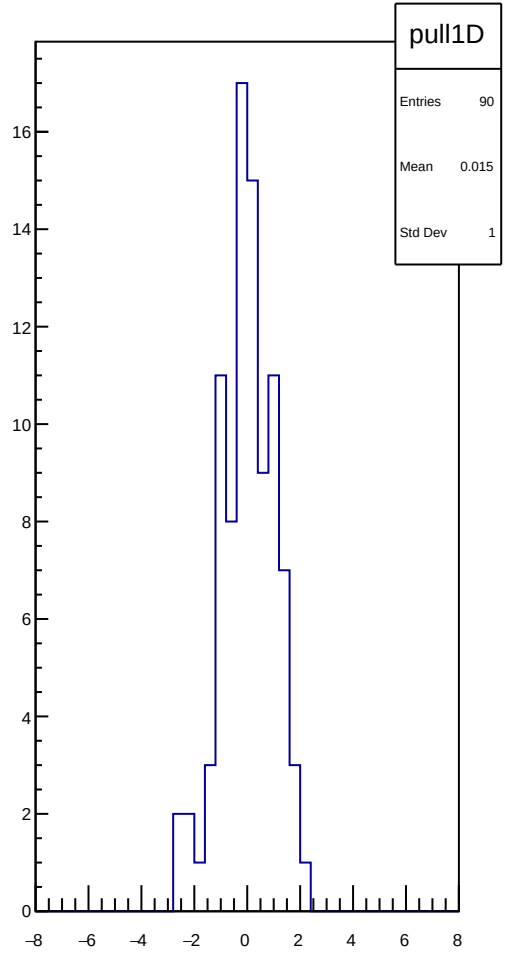

yield_sam8_rms vs run
χ² / ndf 3.636e+05 / 89
p0 0.00486 ± 4.081e−06
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

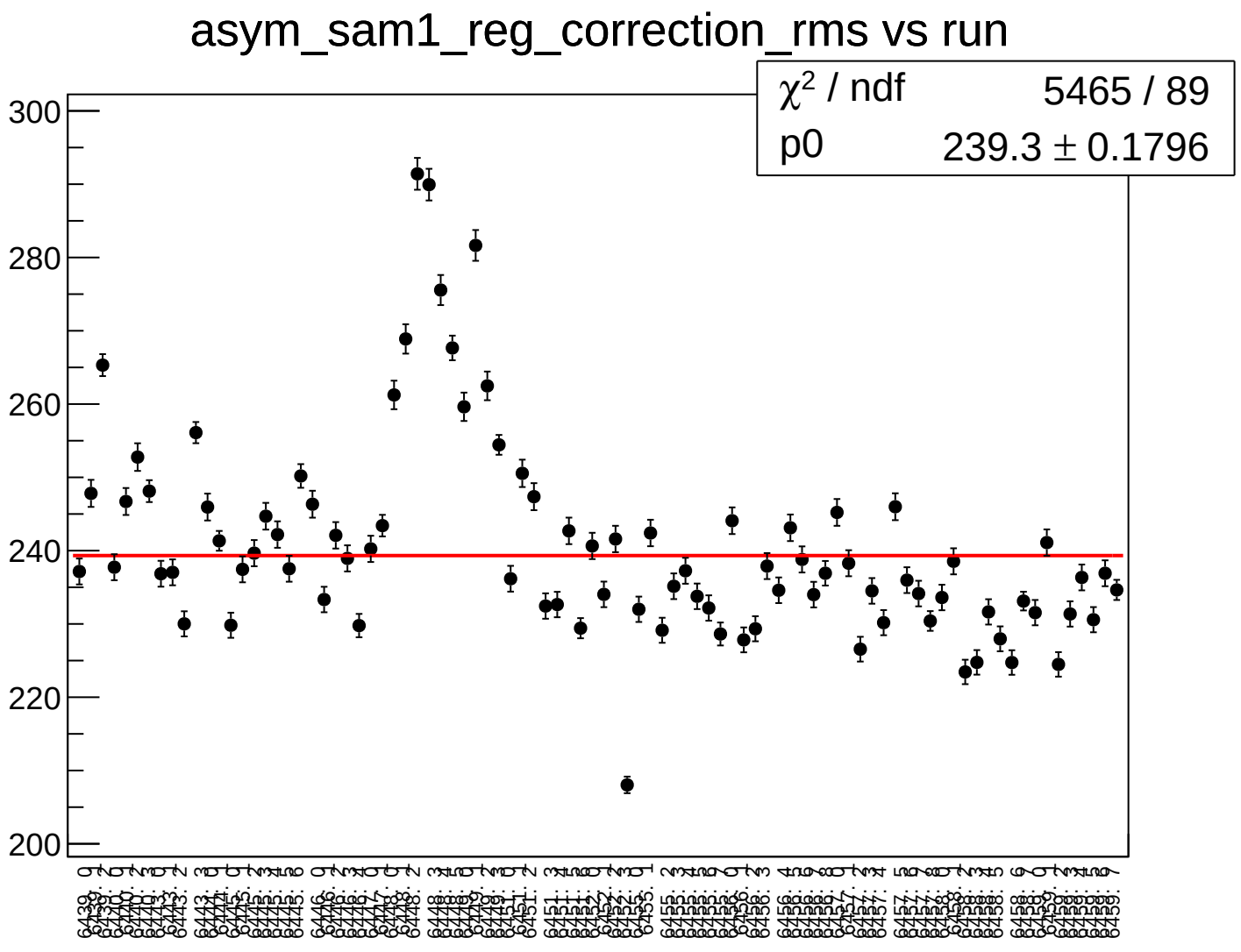

reg_asym_sam1_mean vs run
χ² / ndf 91.75 / 89
p0 −61.74 ± 77.37
2000
1000
0
−1000
−2000
−3000
pull
Entries 90
Mean −544.7
Std Dev 0
3
2
1
0
−1
−2

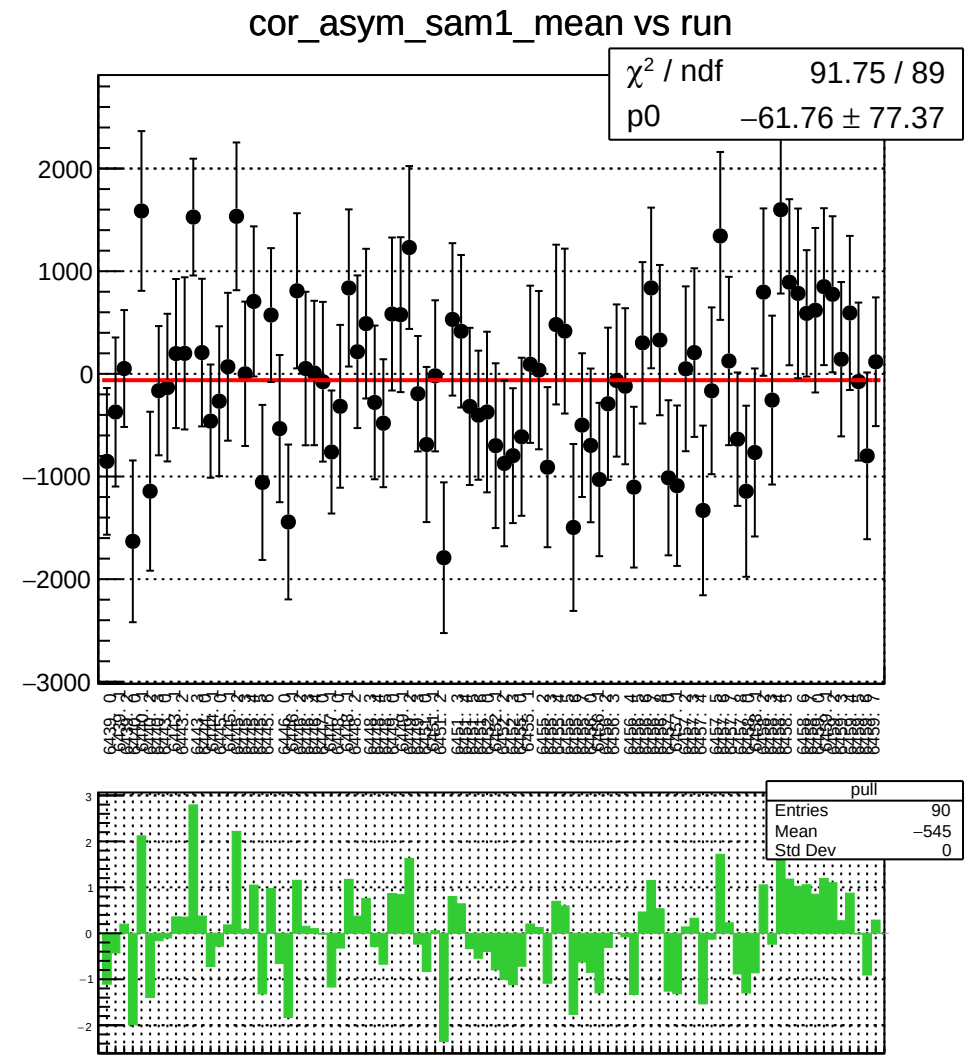

pull1D
Entries 90
Mean −0.002451
Std Dev 1.01
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

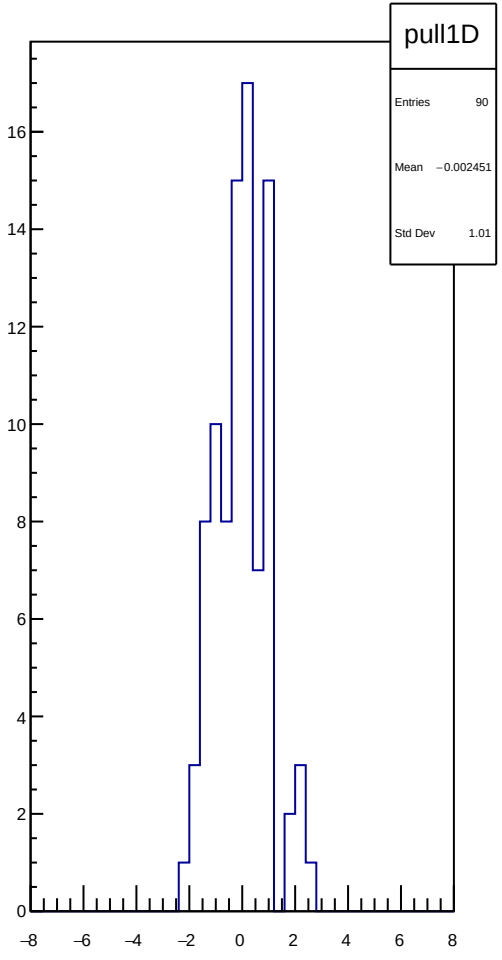

reg_asym_sam1_rms vs run
χ^2 / ndf 3921 / 89
p0 72.95 ± 0.05471
85
80
75
70
65

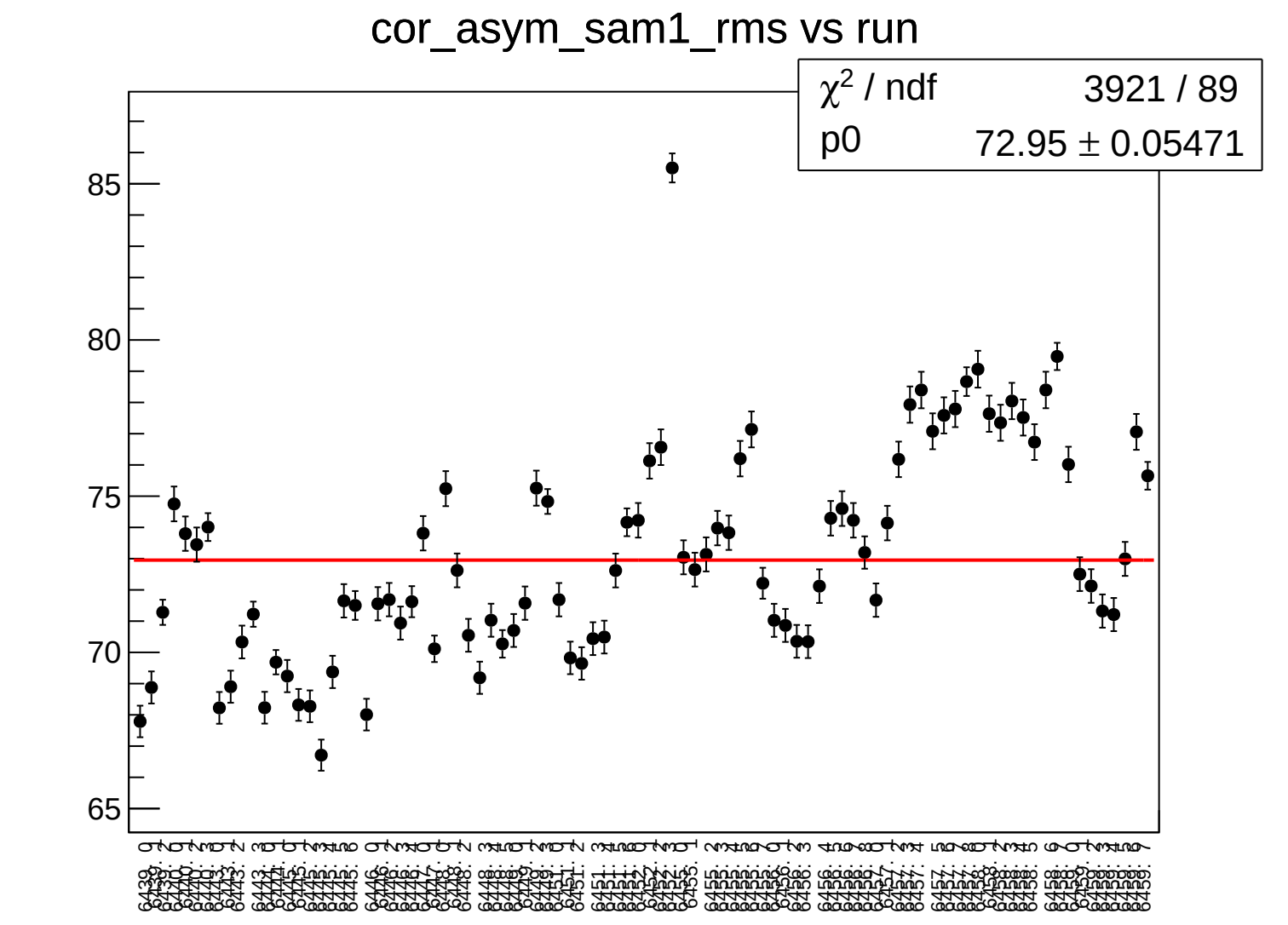

asym_sam1_reg_correction_mean vs run
χ² / ndf 90.09 / 89
p0 −184.9 ± 253.9
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
pull
Entries 90
Mean −91.96
Std Dev 0
2
1
0
−1
−2

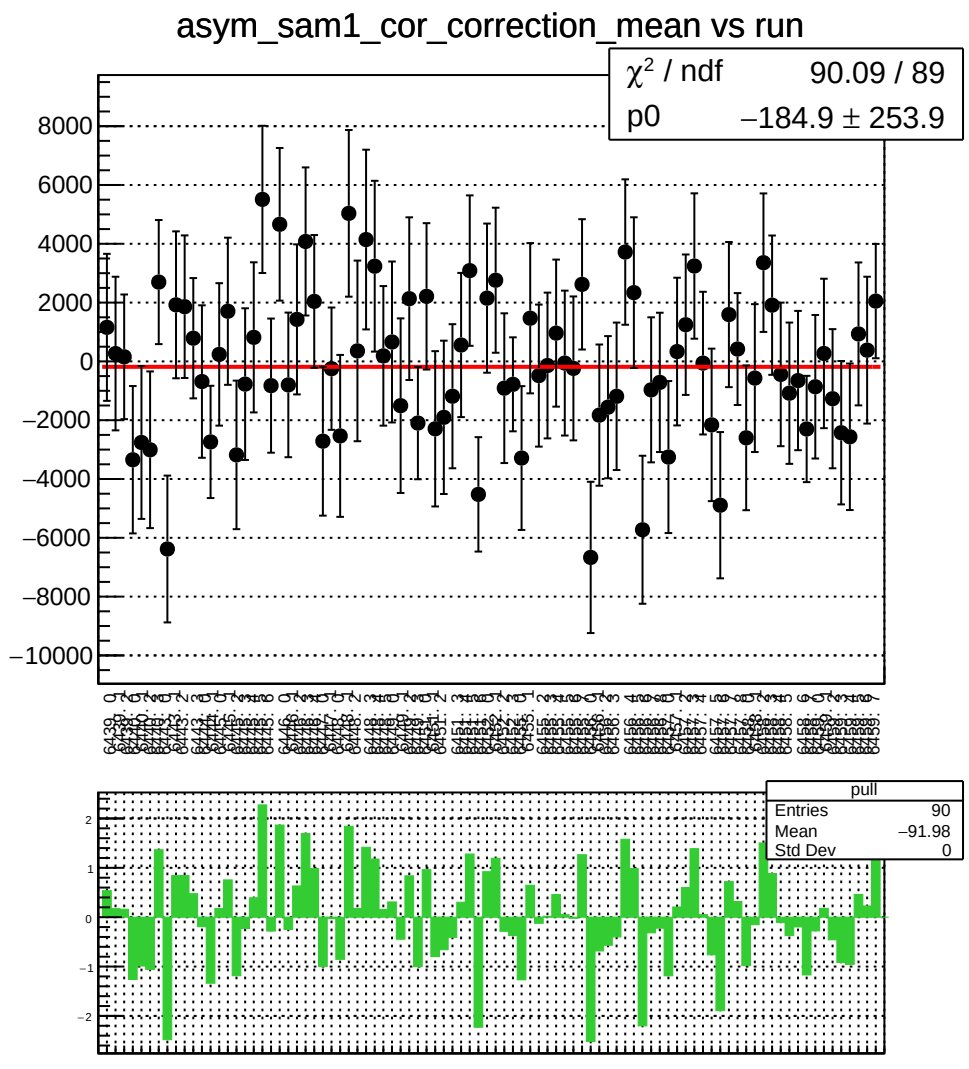

pull1D
Entries 90
Mean 0.015
Std Dev 1
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

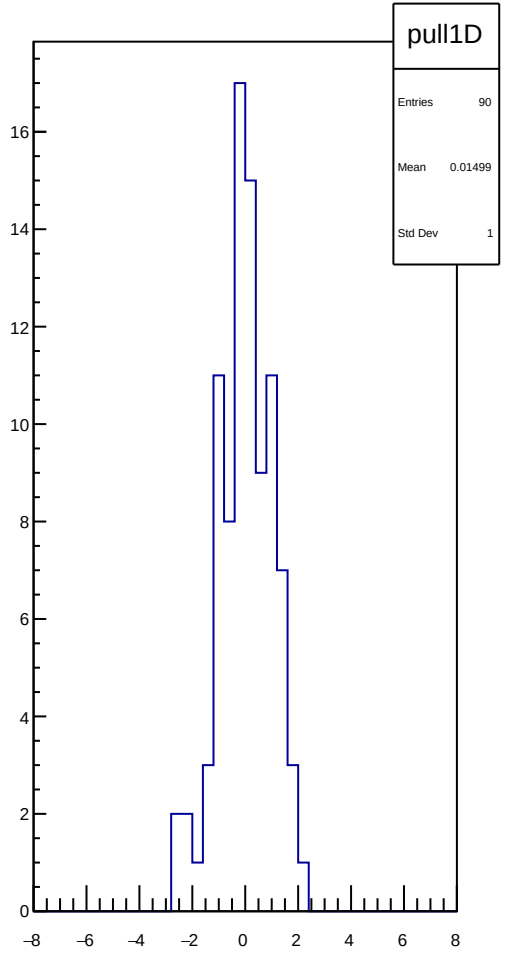

asym_sam1_reg_correction_rms vs run
χ² / ndf 5465 / 89
p0 239.3 ± 0.1796
300
280
260
240
220
200

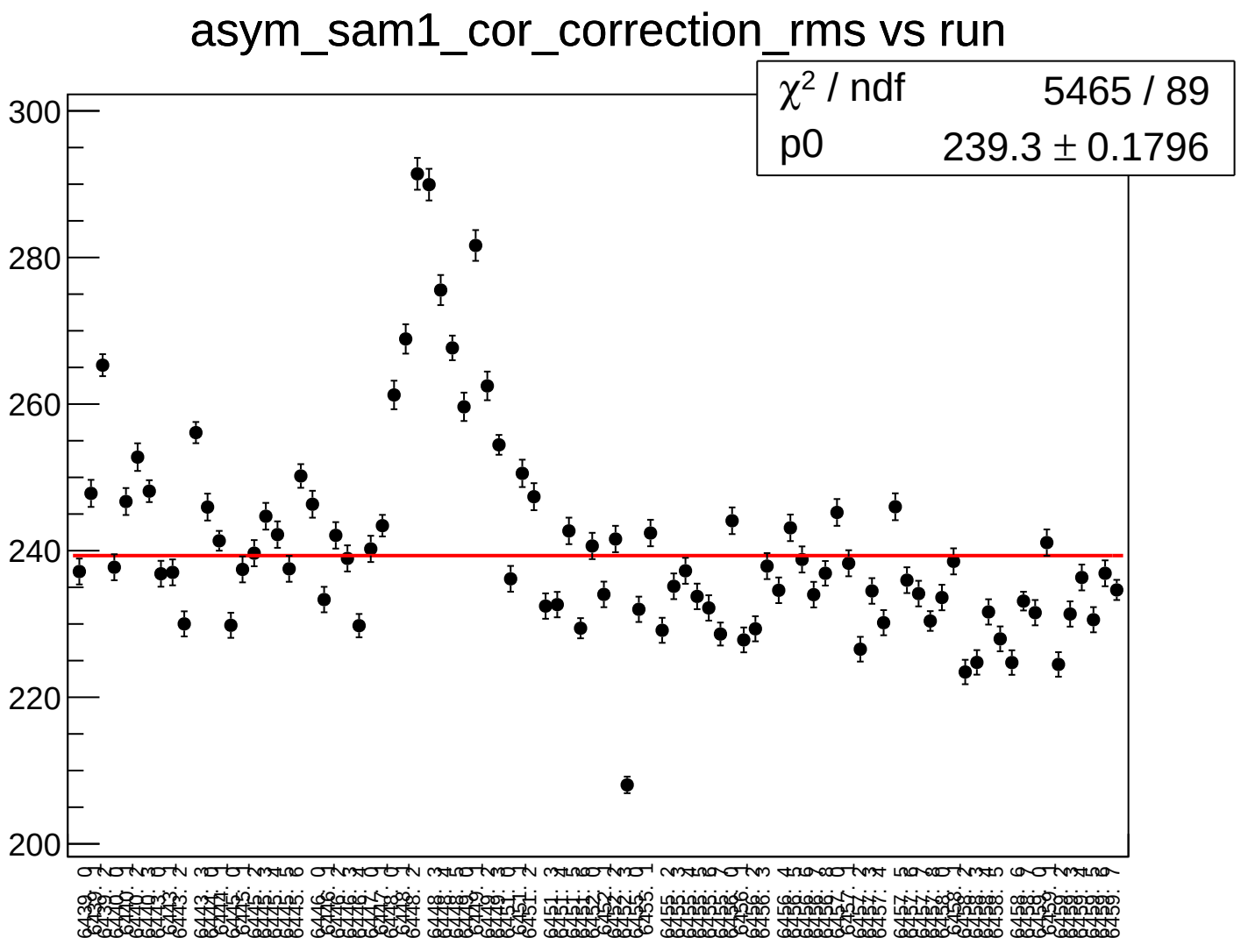

cor_asym_sam1_mean vs run
χ² / ndf 91.75 / 89
p0 −61.76 ± 77.37
2000
1000
0
−1000
−2000
−3000
pull
Entries 90
Mean −545
Std Dev 0
3
2
1
0
−1
−2

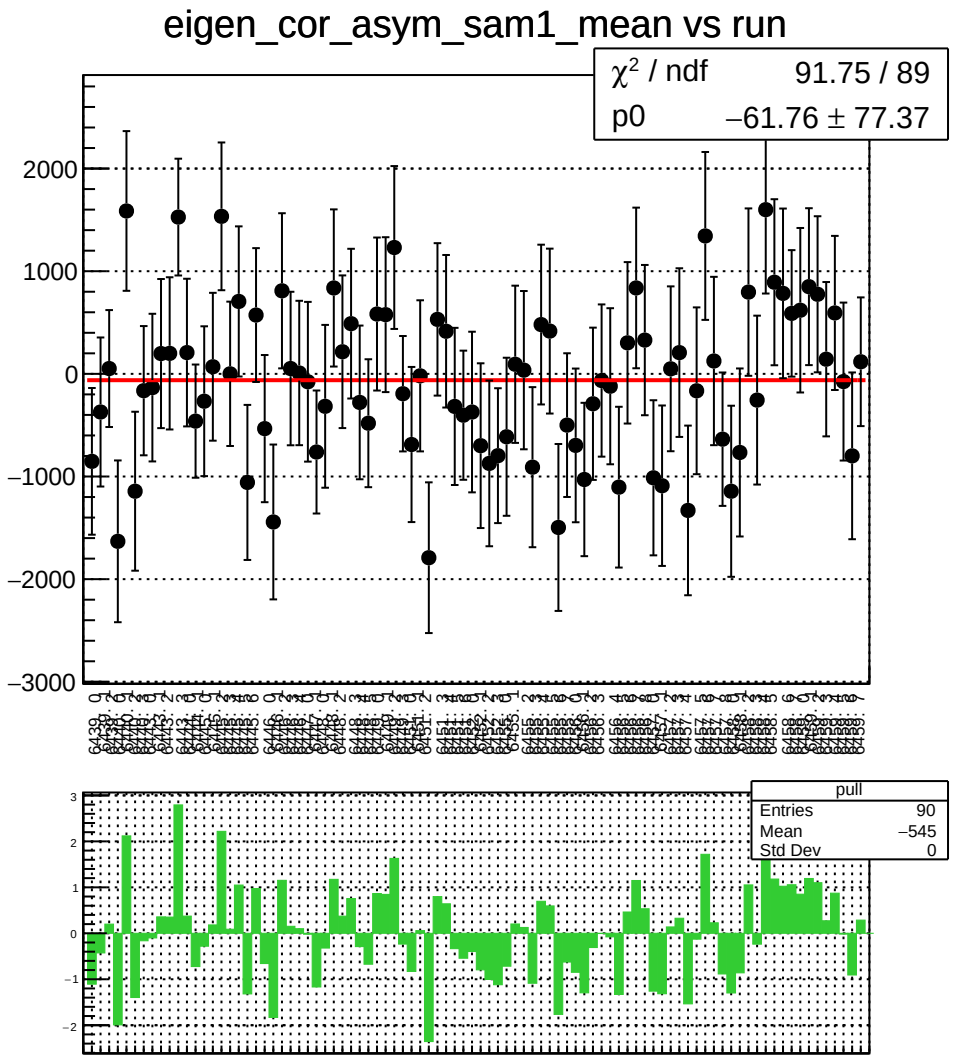

pull1D
Entries 90
Mean −0.002451
Std Dev 1.01
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

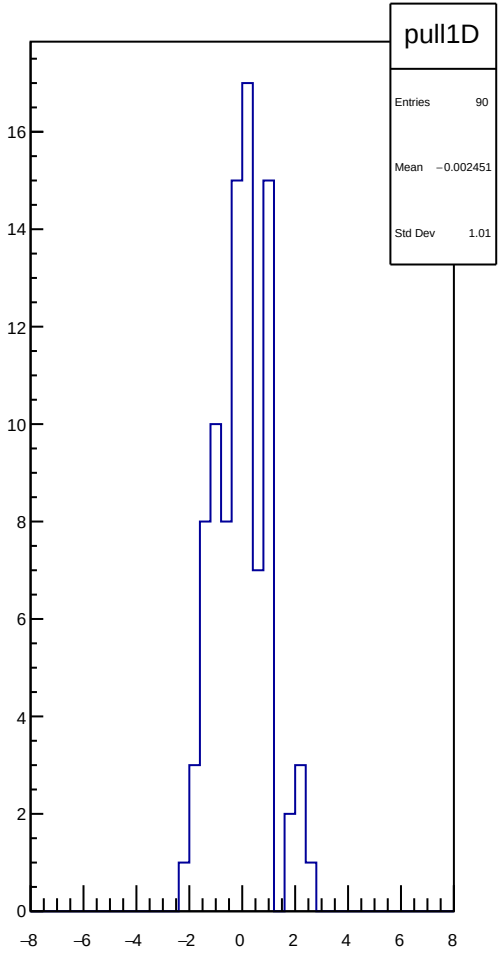

cor_asym_sam1_rms vs run
χ^2 / ndf 3921 / 89
p0 72.95 ± 0.05471
85
80
75
70
65

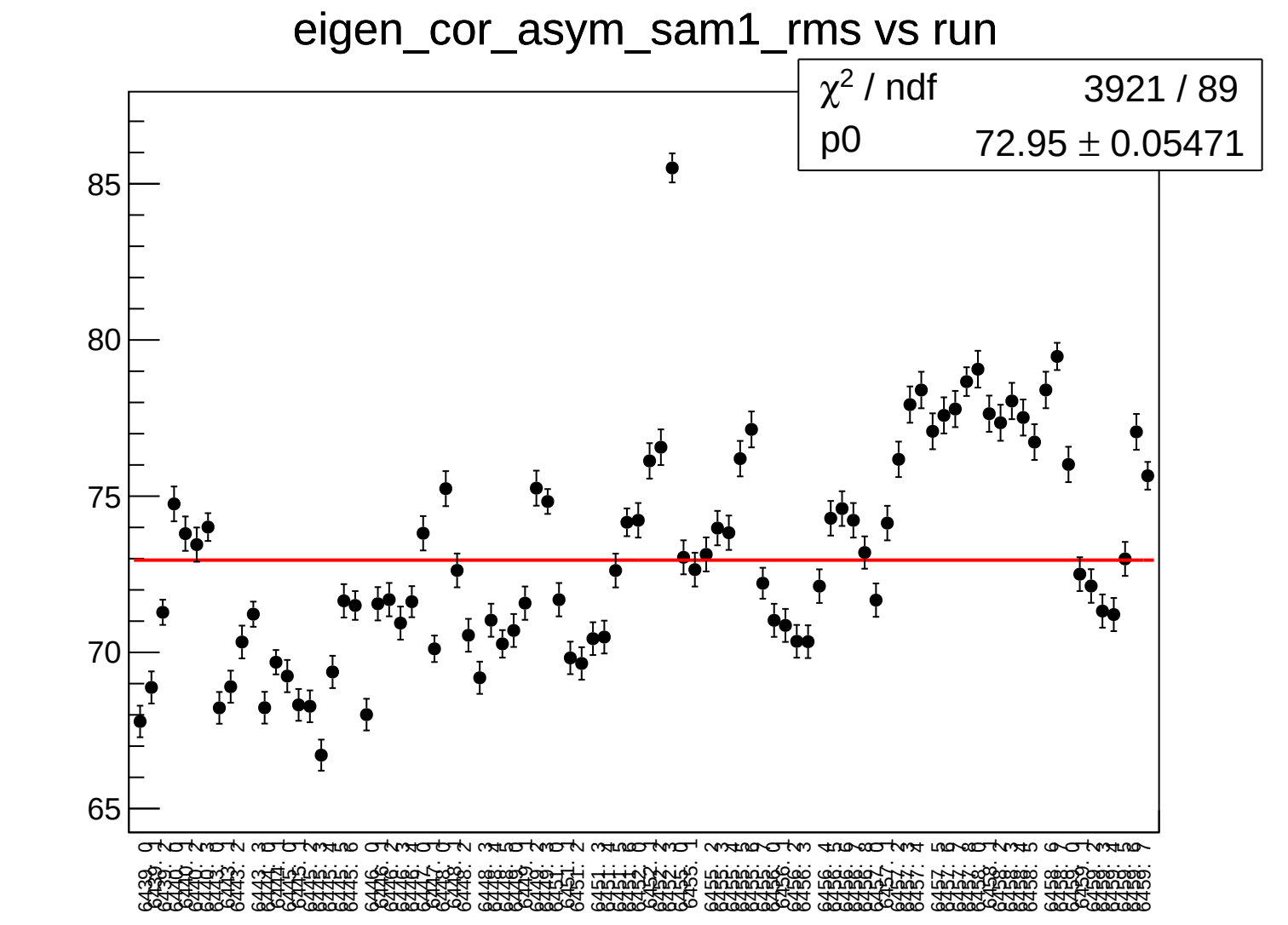

asym_sam1_cor_correction_mean vs run
χ² / ndf 90.09 / 89
p0 −184.9 ± 253.9
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
pull
Entries 90
Mean −91.98
Std Dev 0
2
1
0
−1
−2

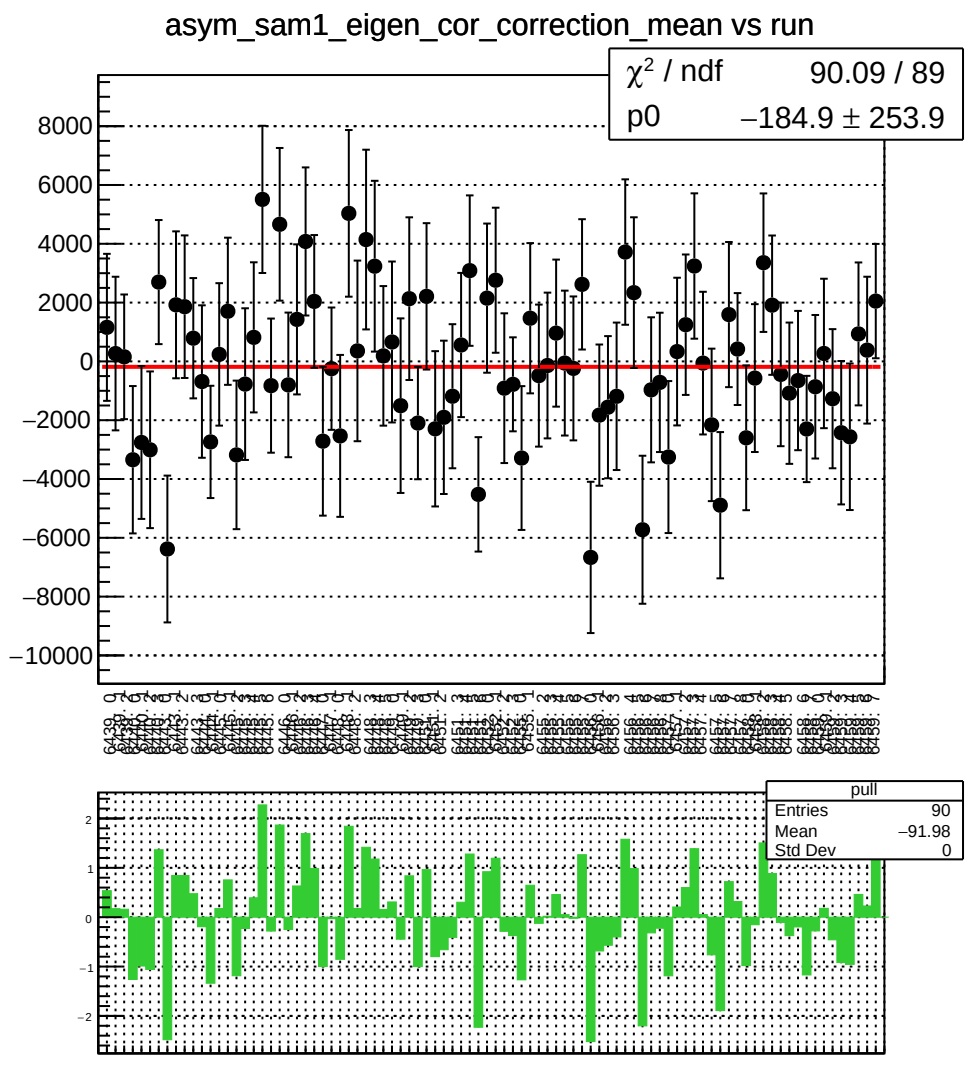

pull1D
Entries 90
Mean 0.01499
Std Dev 1
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

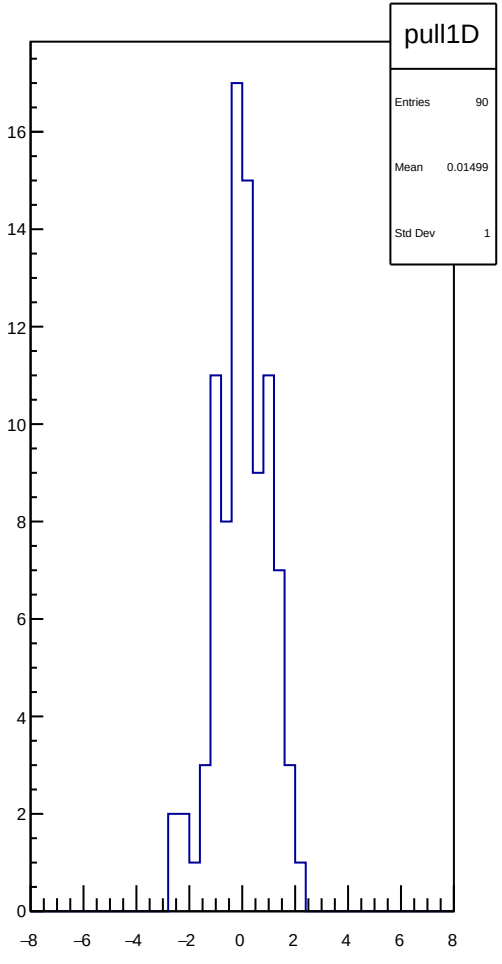

asym_sam1_cor_correction_rms vs run
χ² / ndf 5465 / 89
p0 239.3 ± 0.1796
300
280
260
240
220
200

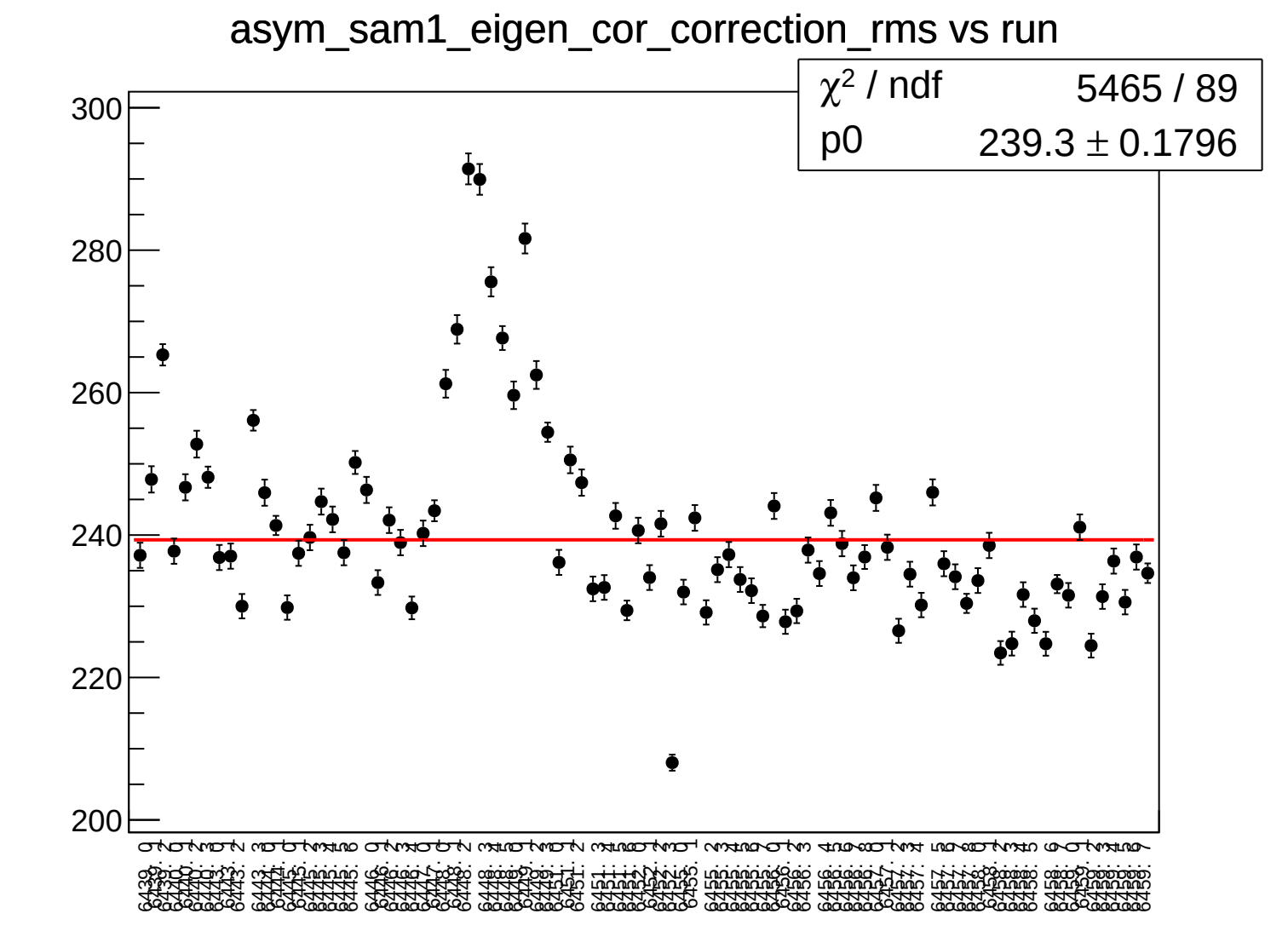

eigen_cor_asym_sam1_mean vs run
χ² / ndf 91.75 / 89
p0 −61.76 ± 77.37
2000
1000
0
−1000
−2000
−3000
pull
Entries 90
Mean −545
Std Dev 0
3
2
1
0
−1
−2

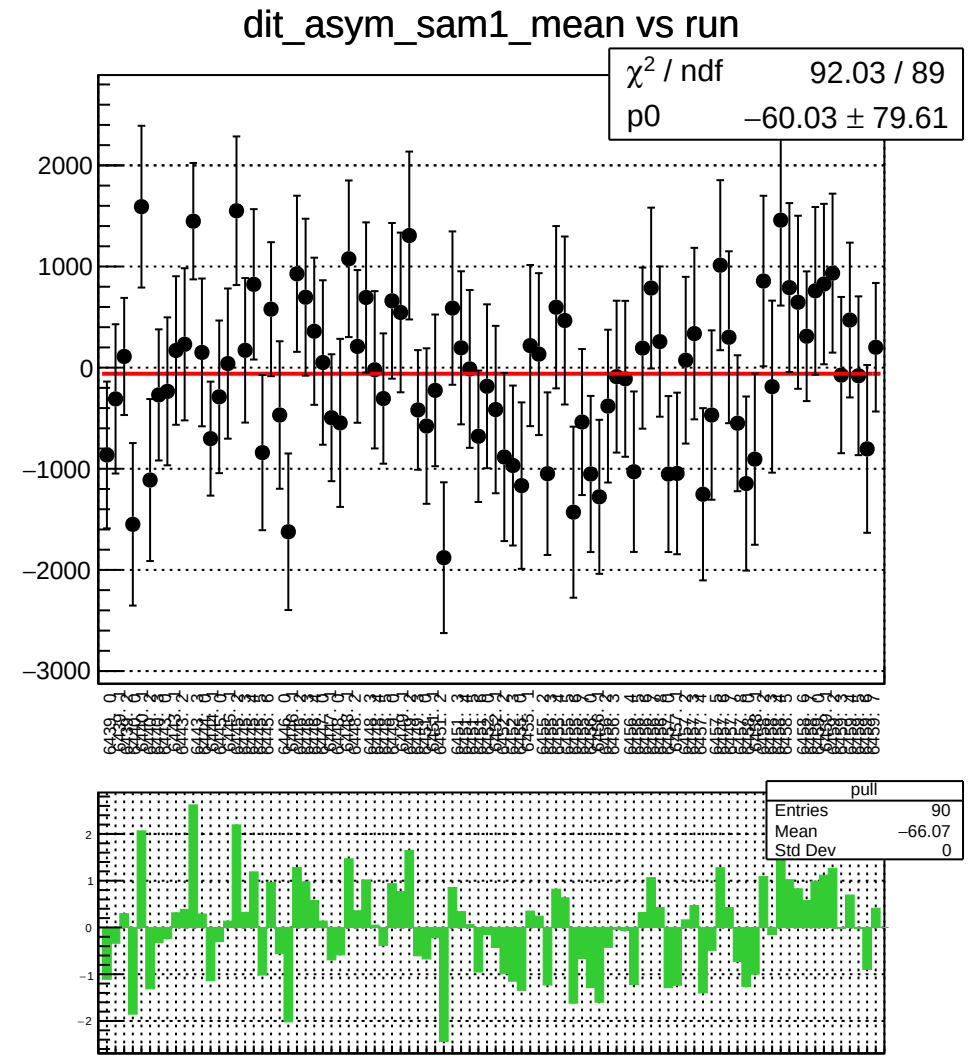

pull1D
Entries 90
Mean −0.002451
Std Dev 1.01
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

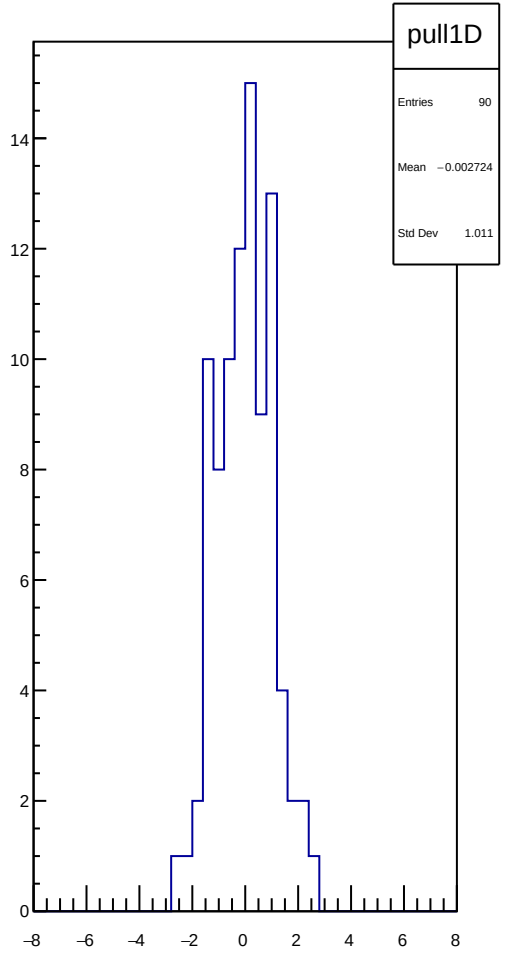

eigen_cor_asym_sam1_rms vs run
χ^2 / ndf 3921 / 89
p0 72.95 ± 0.05471
85
80
75
70
65

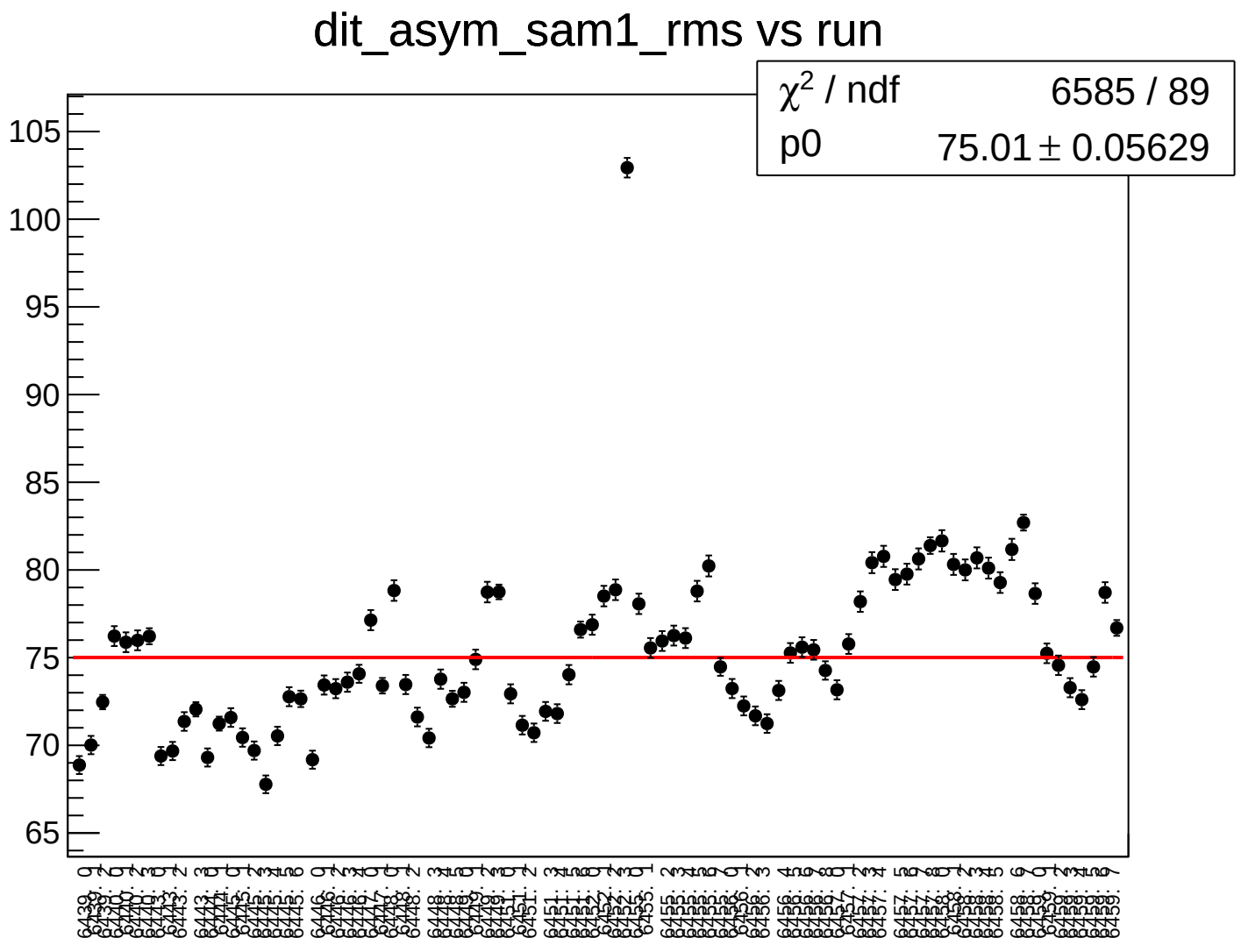

asym_sam1_eigen_cor_correction_mean vs run
χ² / ndf 90.09 / 89
p0 −184.9 ± 253.9
pull
Entries 90
Mean −91.98
Std Dev 0

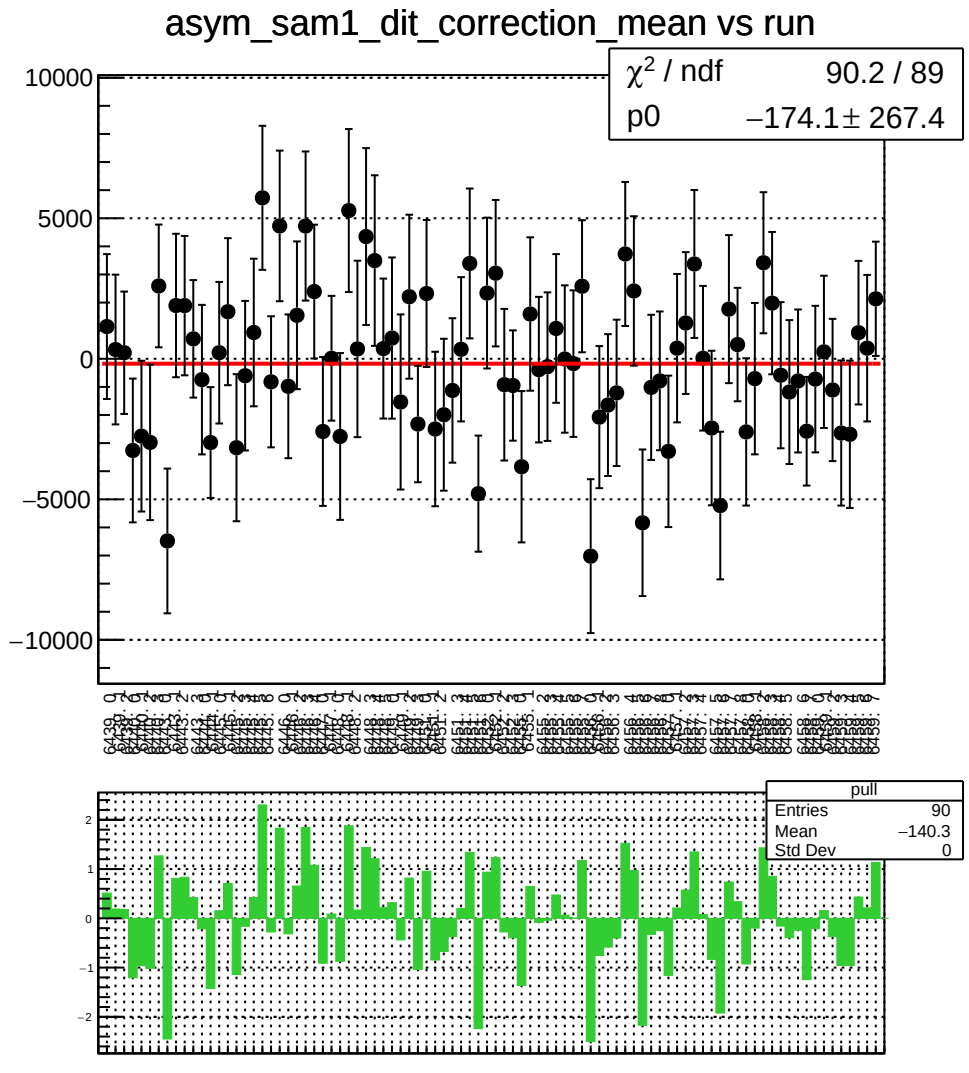

pull1D
Entries 90
Mean 0.01499
Std Dev 1

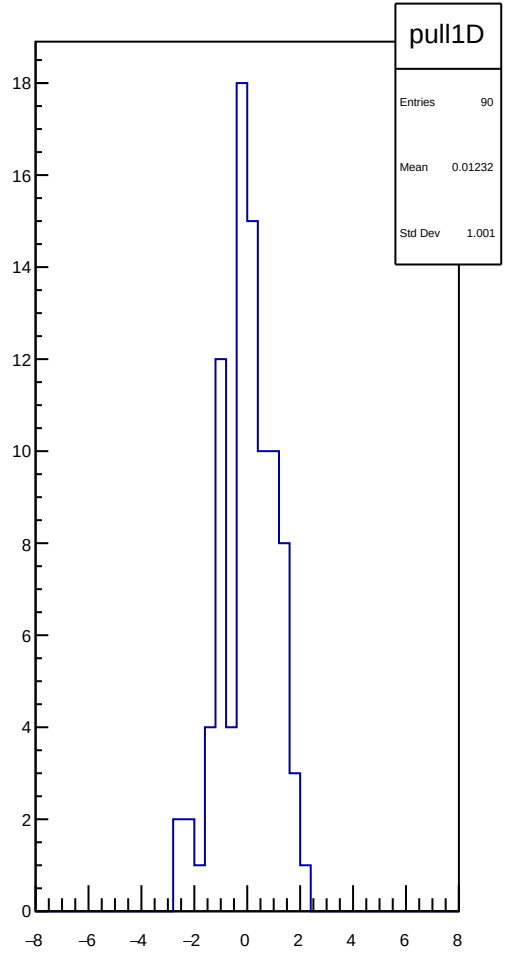

asym_sam1_eigen_cor_correction_rms vs run
χ² / ndf 5465 / 89
p0 239.3 ± 0.1796
300
280
260
240
220
200

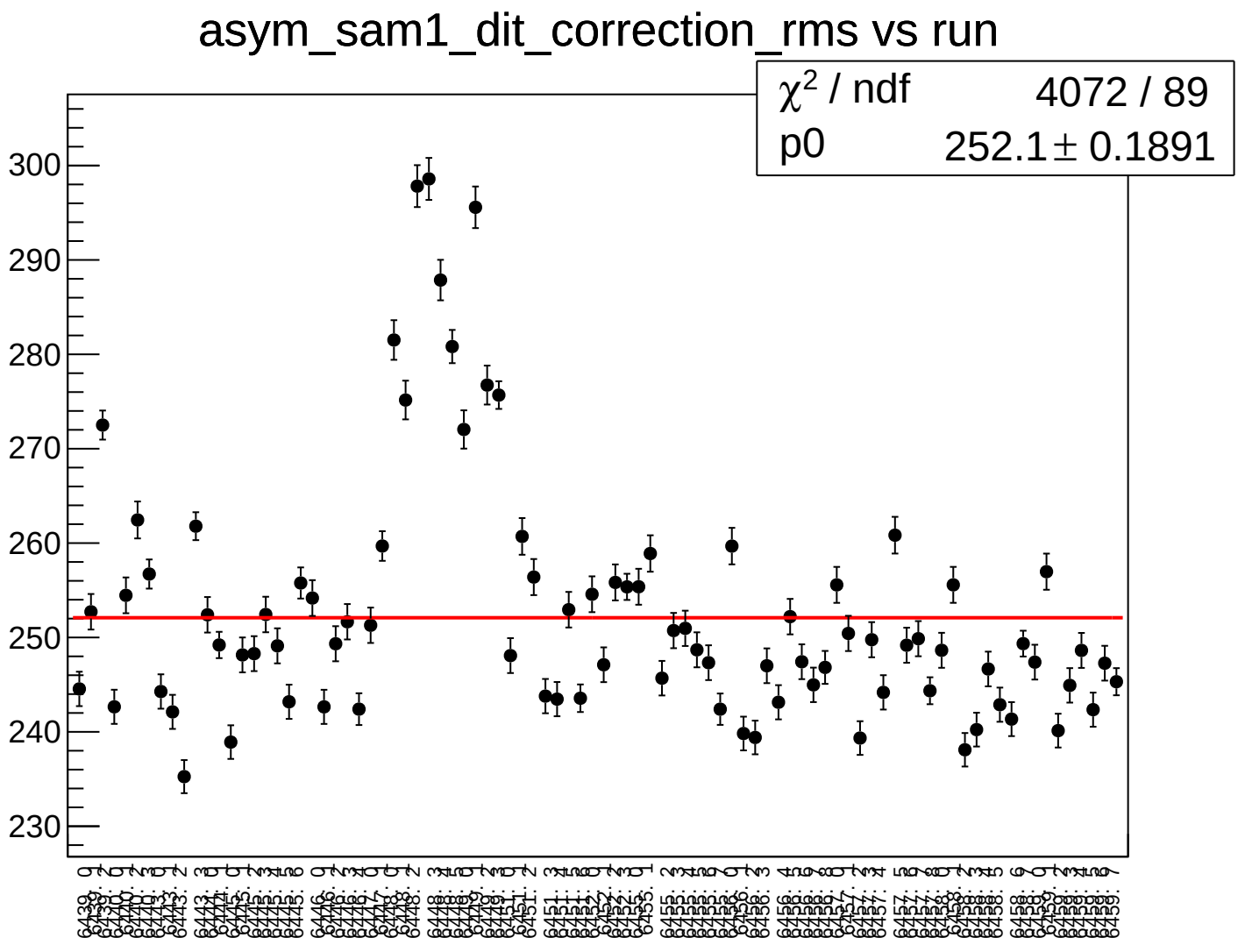

dit_asym_sam1_mean vs run
χ² / ndf 92.03 / 89
p0 −60.03 ± 79.61
pull
Entries 90
Mean −66.07
Std Dev 0

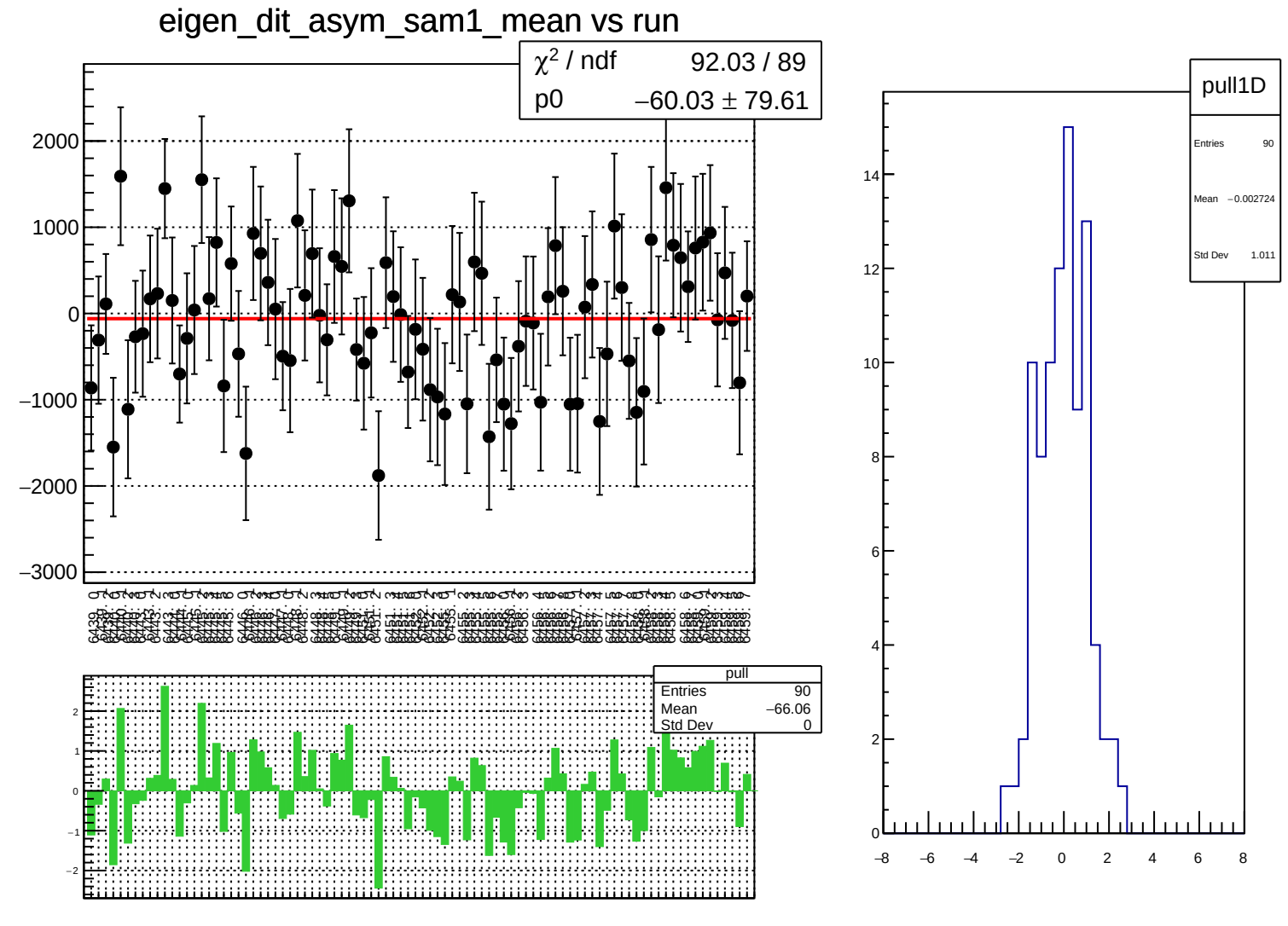

pull1D
Entries 90
Mean −0.002724
Std Dev 1.011

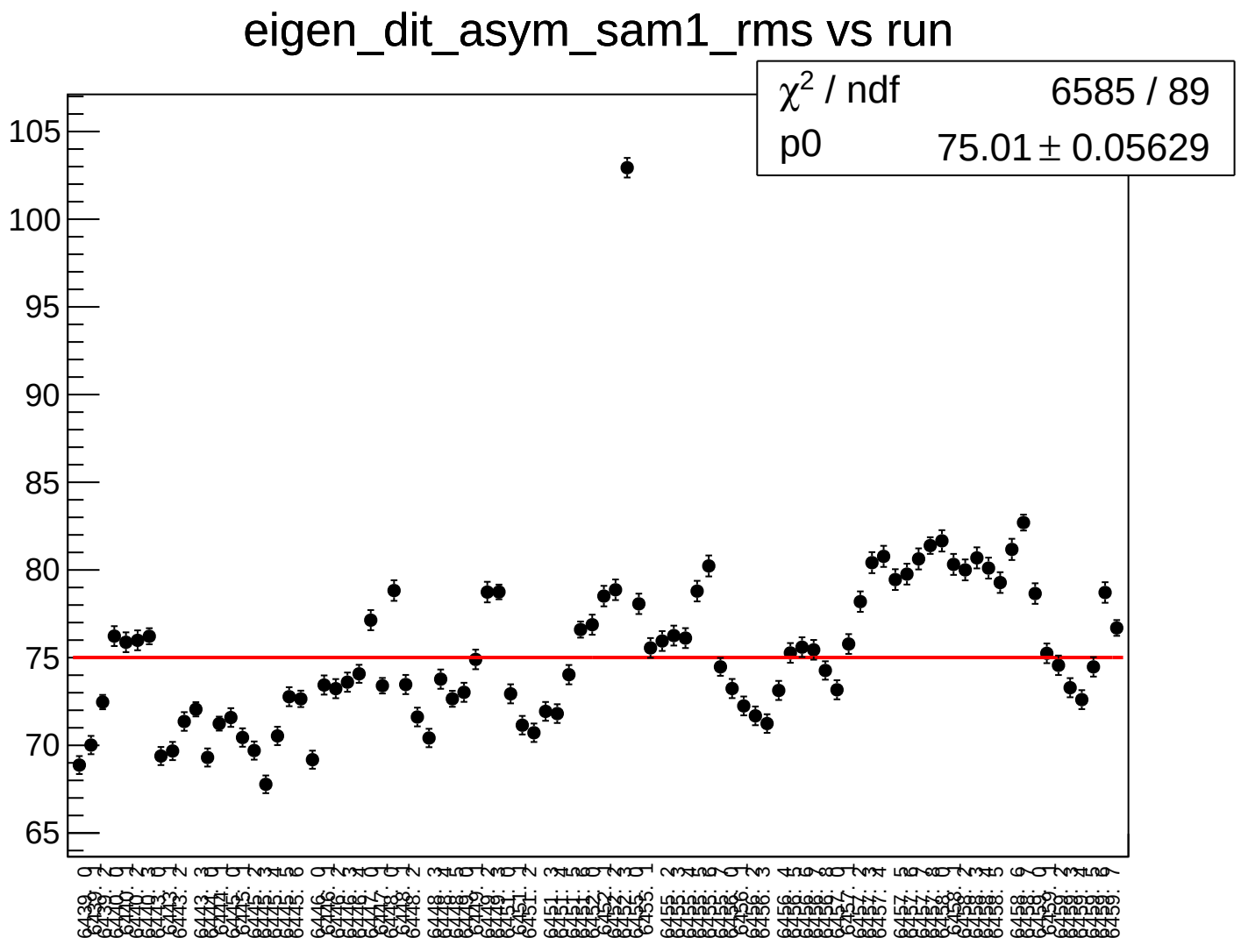

dit_asym_sam1_rms vs run
χ^2 / ndf 6585 / 89
p0 75.01 ± 0.05629
105
100
95
90
85
80
75
70
65

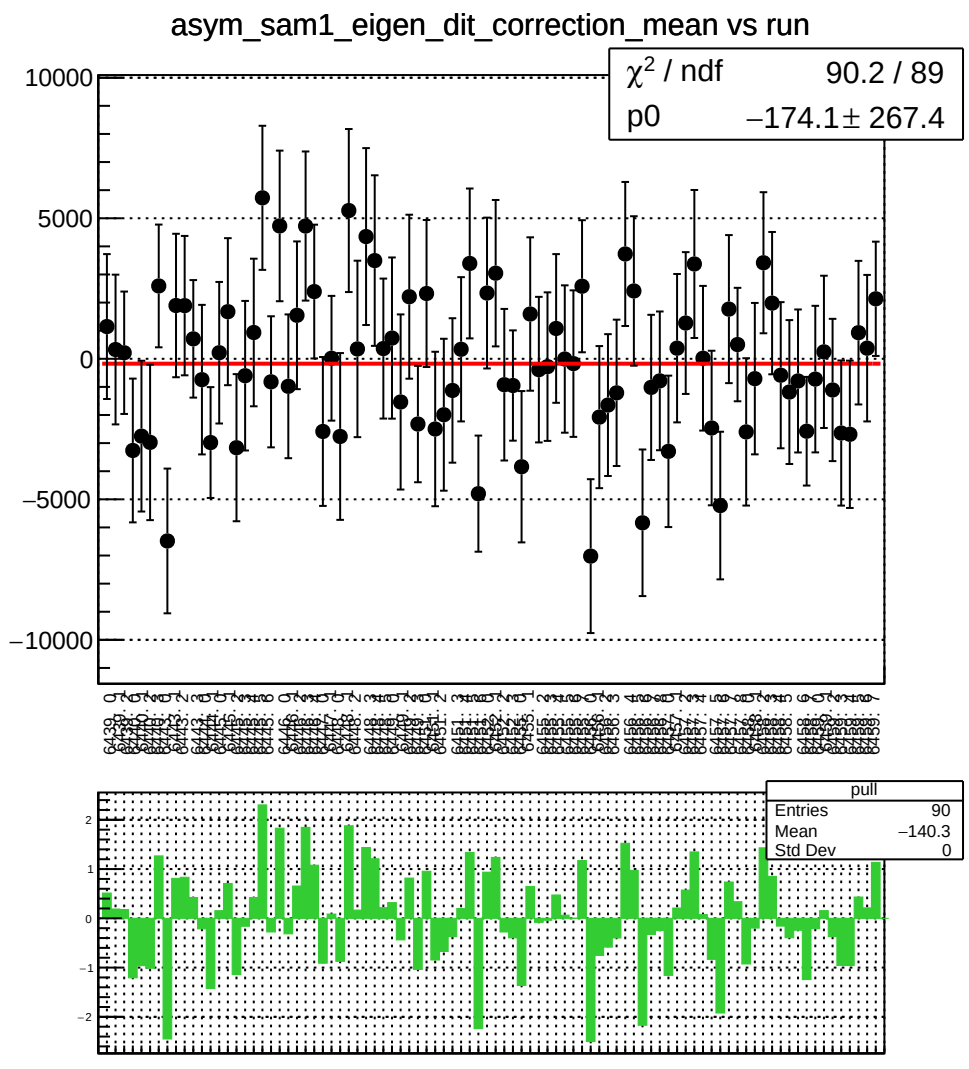

asym_sam1_dit_correction_mean vs run
χ² / ndf 90.2 / 89
p0 −174.1± 267.4
10000
5000
0
−5000
−10000
pull
Entries 90
Mean −140.3
Std Dev 0
2
1
0
−1
−2

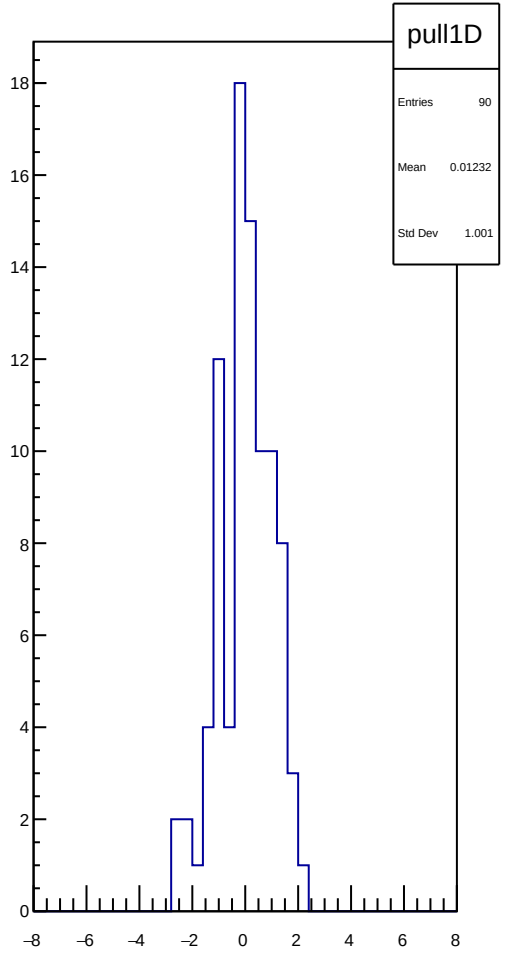

pull1D
Entries 90
Mean 0.01232
Std Dev 1.001
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

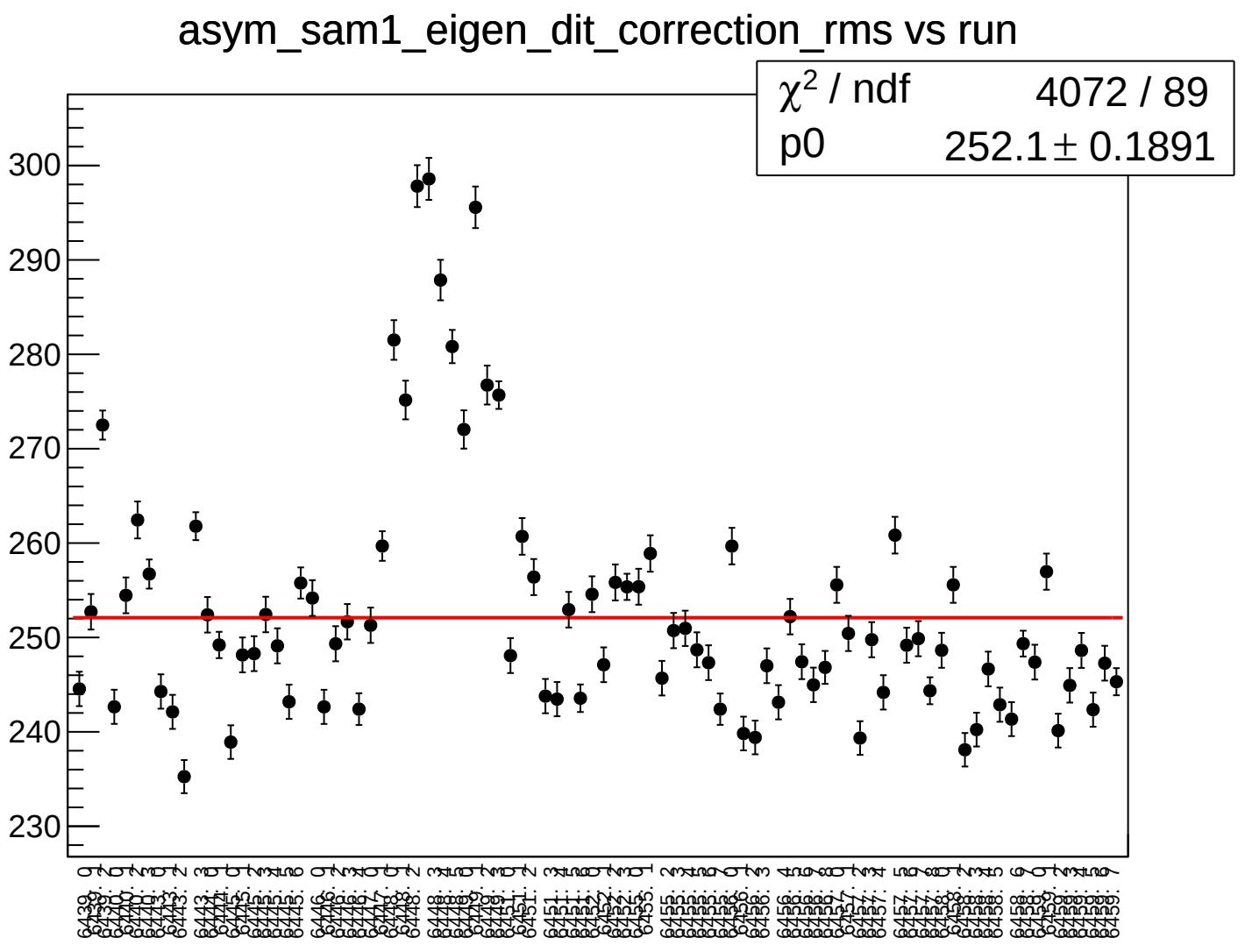

asym_sam1_dit_correction_rms vs run
χ² / ndf 4072 / 89
p0 252.1 ± 0.1891
300
290
280
270
260
250
240
230

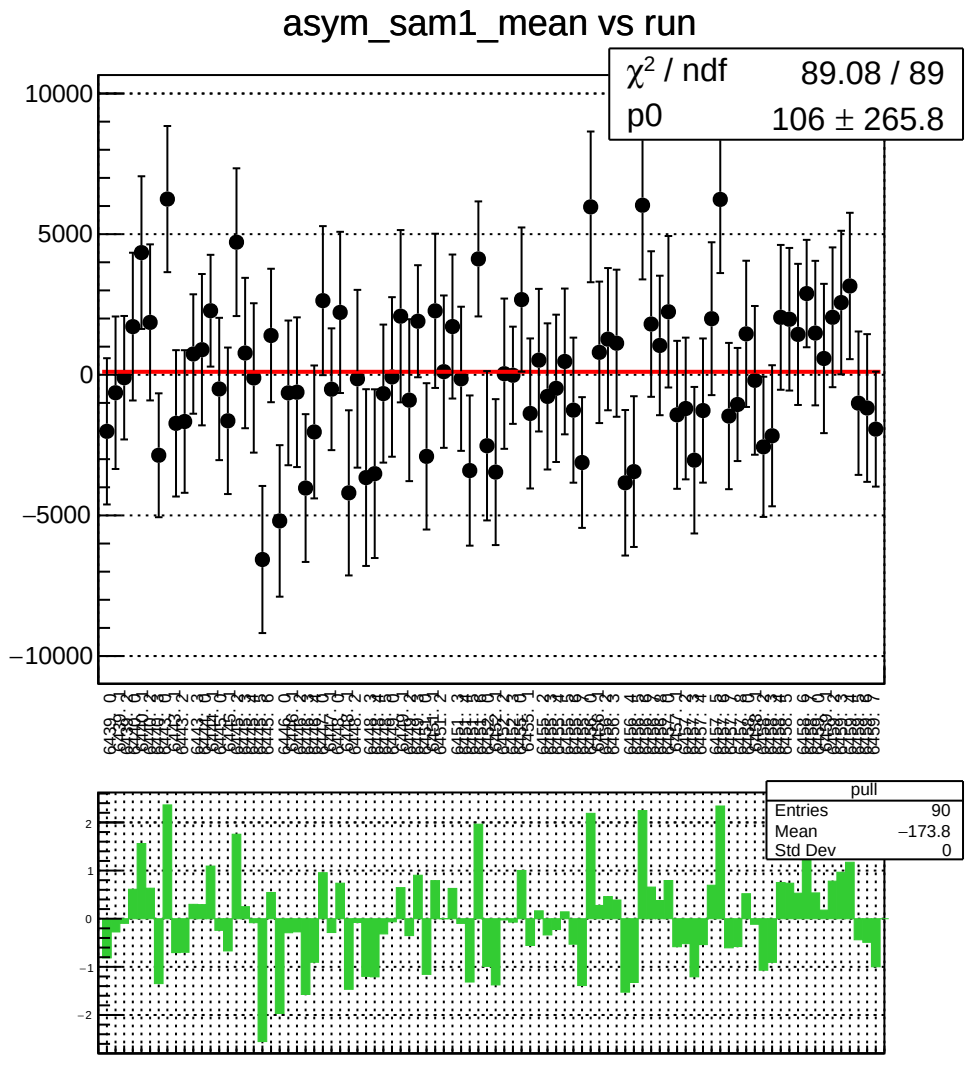

eigen_dit_asym_sam1_mean vs run
χ² / ndf 92.03 / 89
p0 −60.03 ± 79.61
pull
Entries 90
Mean −66.06
Std Dev 0
pull1D
Entries 90
Mean −0.002724
Std Dev 1.011

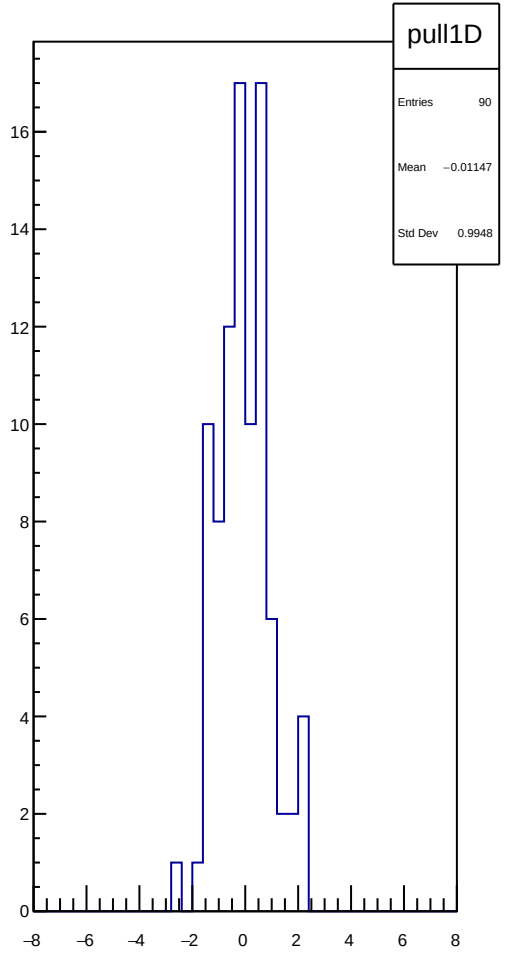

eigen_dit_asym_sam1_rms vs run
χ^2 / ndf 6585 / 89
p0 75.01 ± 0.05629
105
100
95
90
85
80
75
70
65

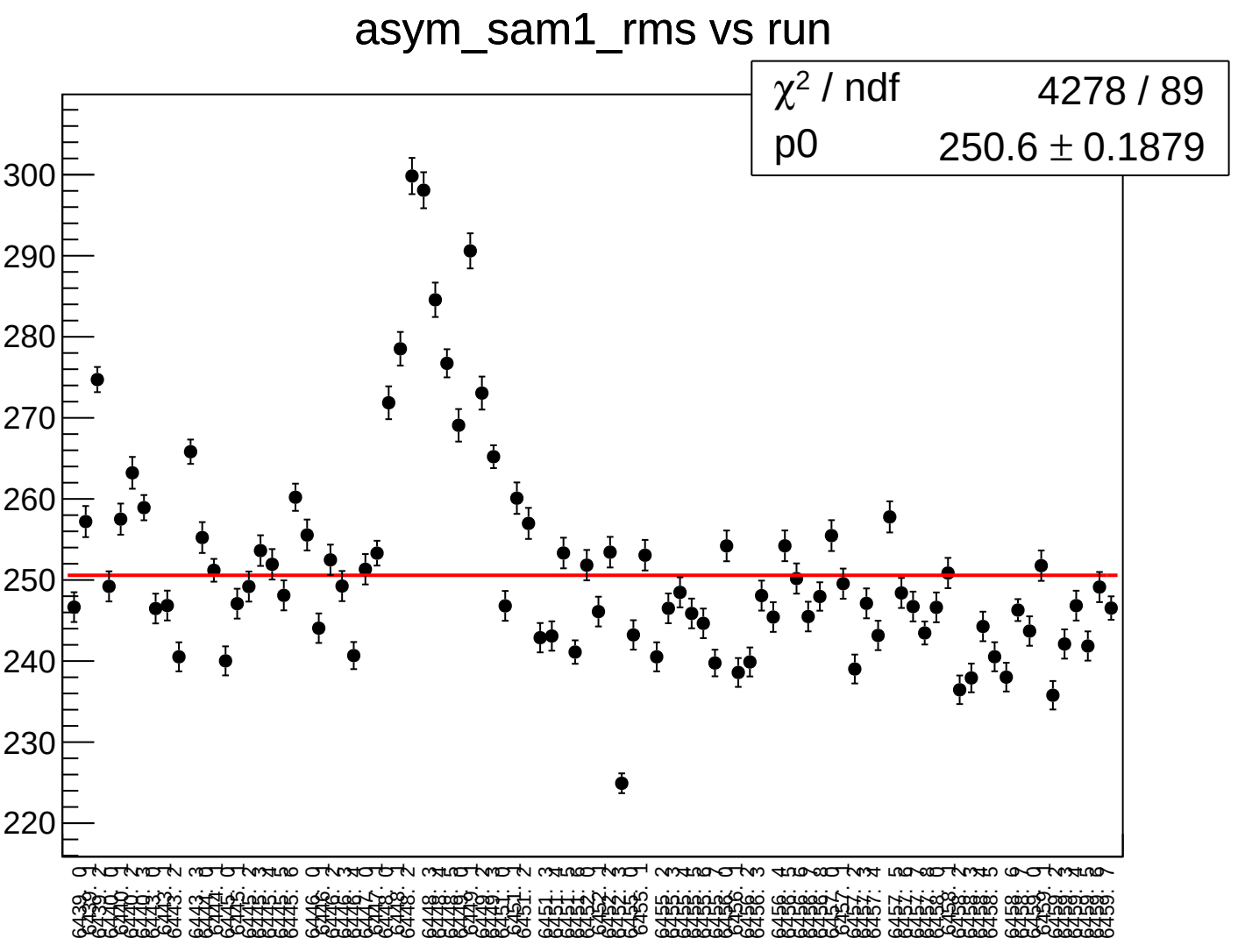

asym_sam1_eigen_dit_correction_mean vs run
χ² / ndf 90.2 / 89
p0 −174.1± 267.4
10000
5000
0
−5000
−10000
pull
Entries 90
Mean −140.3
Std Dev 0
2
1
0
−1
−2

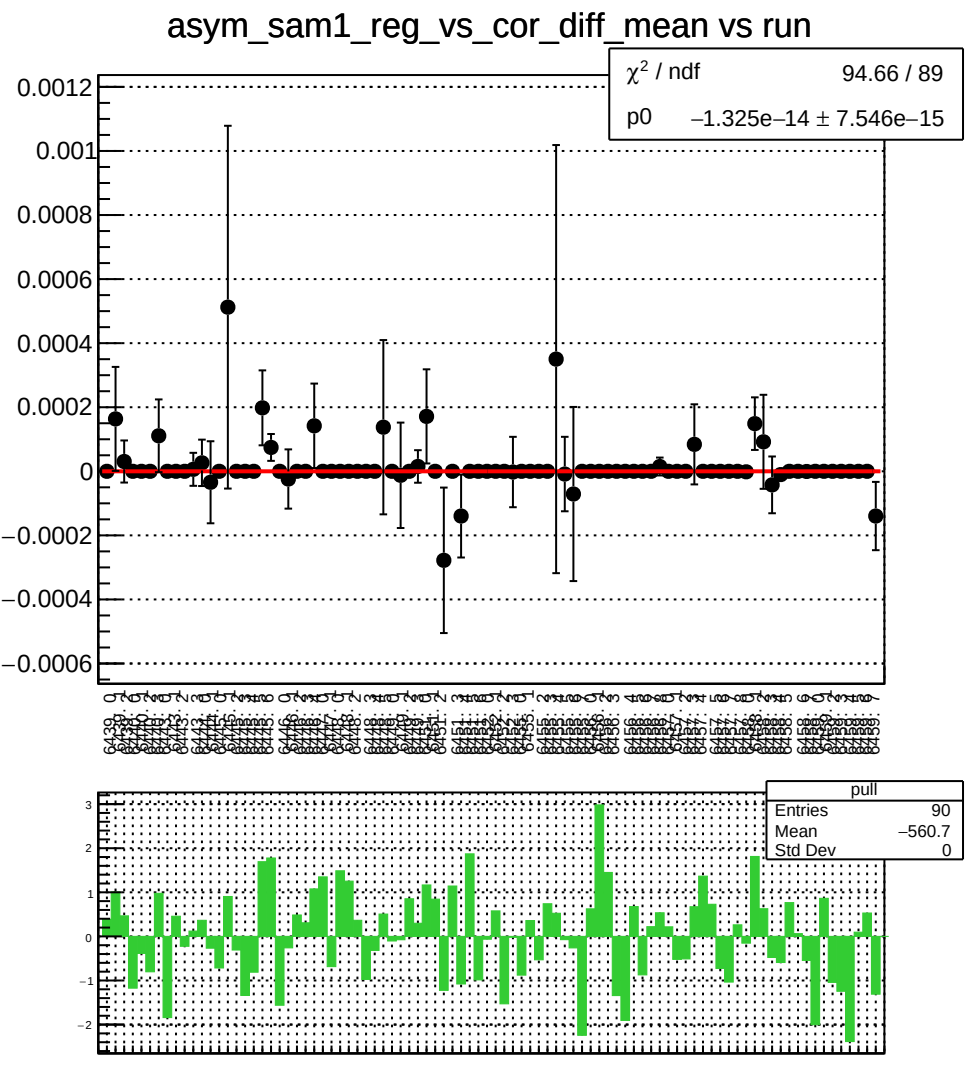

pull1D
Entries 90
Mean 0.01232
Std Dev 1.001
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

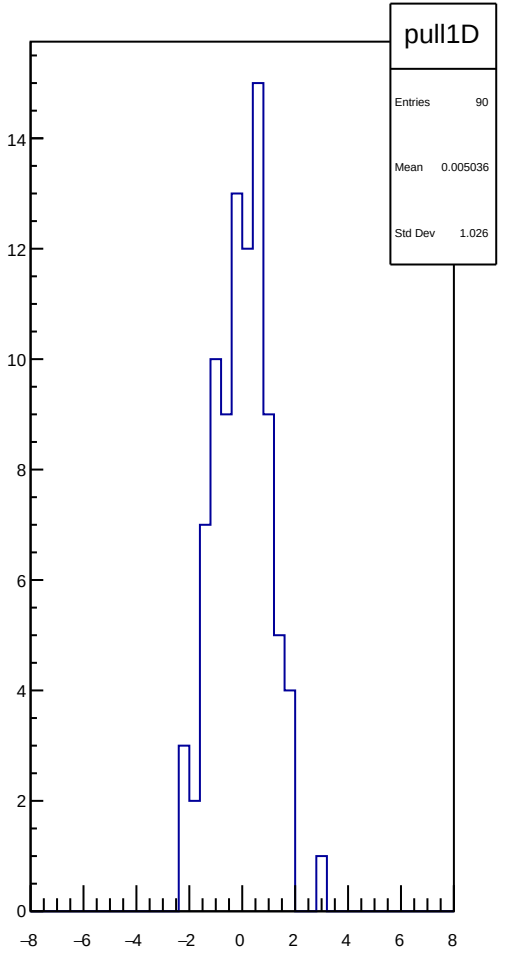

asym_sam1_eigen_dit_correction_rms vs run
χ² / ndf 4072 / 89
p0 252.1 ± 0.1891
300
290
280
270
260
250
240
230

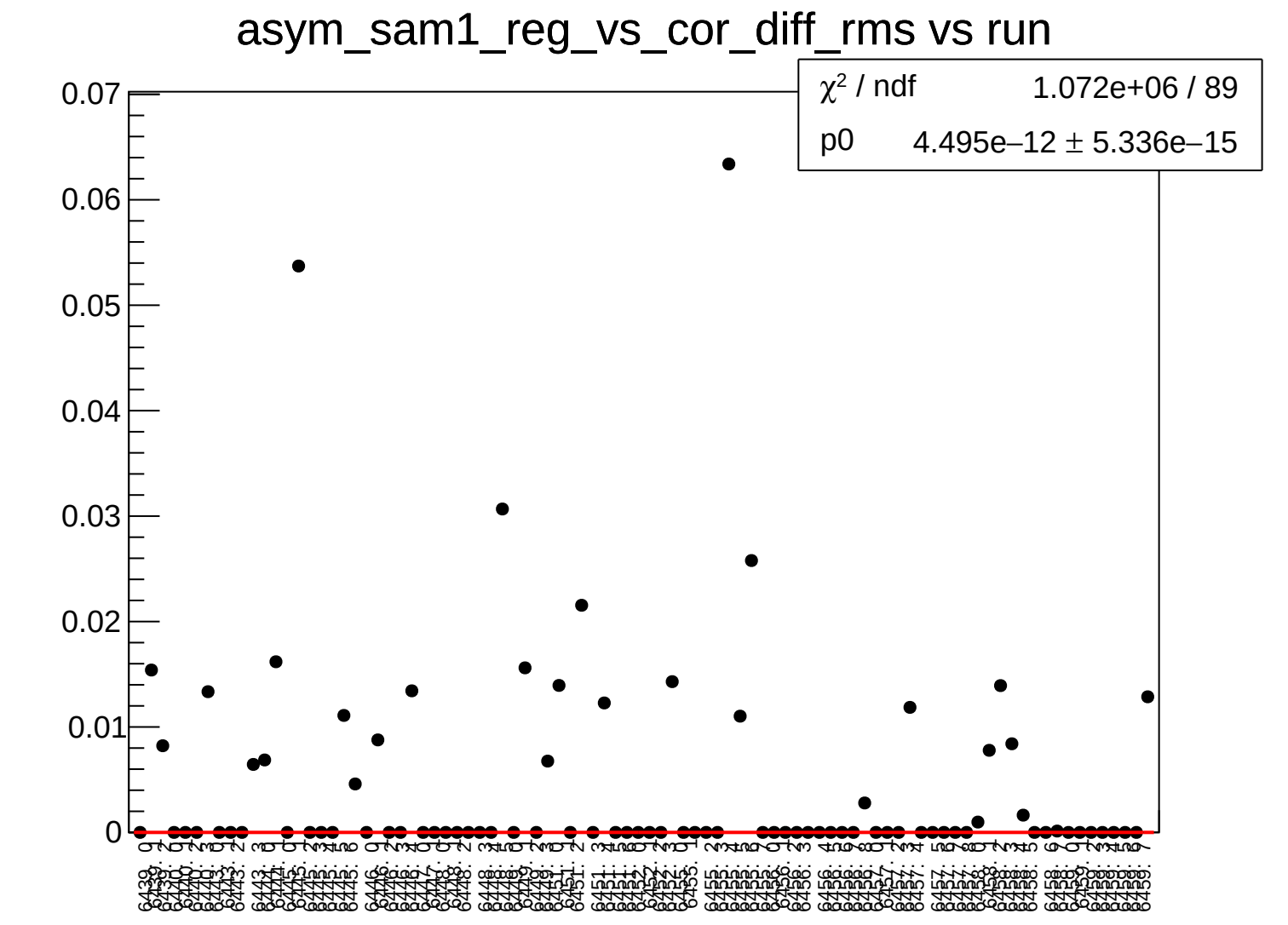

asym_sam1_mean vs run
χ² / ndf 89.08 / 89
p0 106 ± 265.8
10000
5000
0
−5000
−10000
pull
Entries 90
Mean −173.8
Std Dev 0
2
1
0
−1
−2

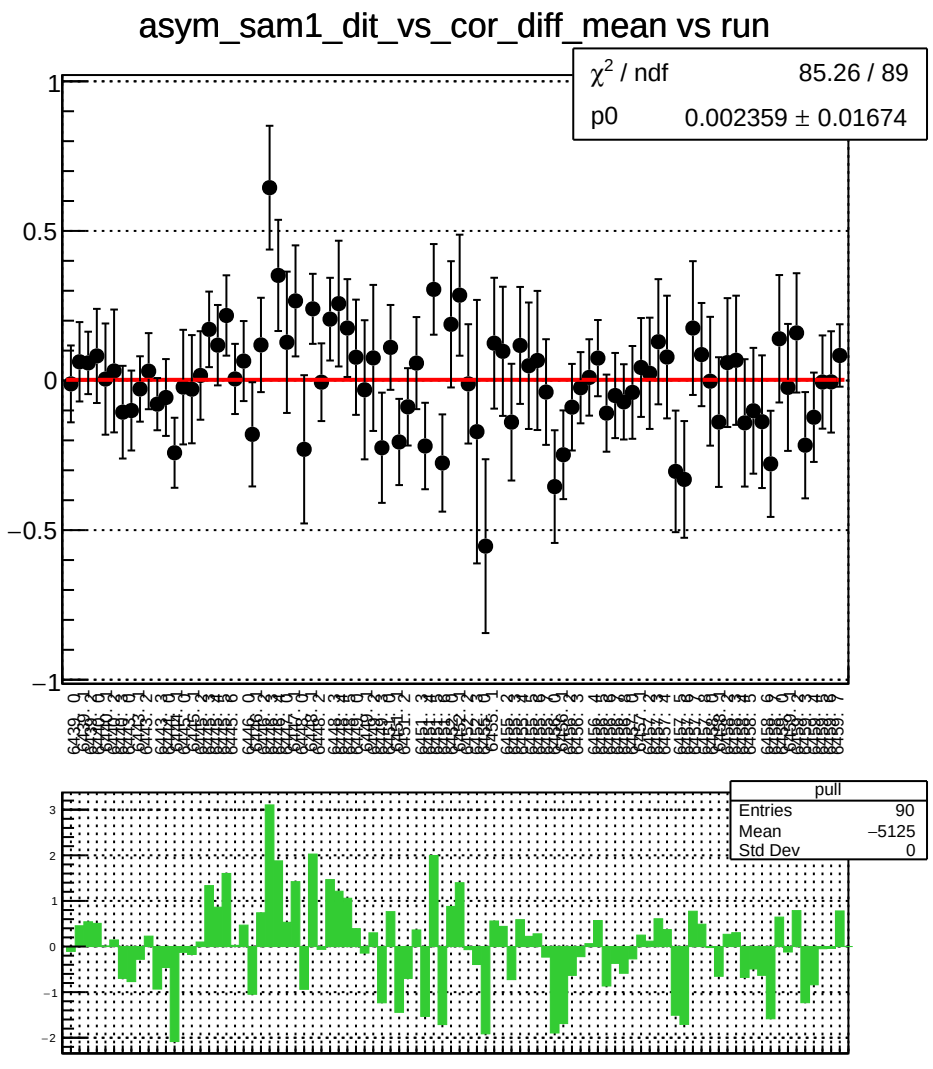

pull1D
Entries 90
Mean −0.01147
Std Dev 0.9948
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

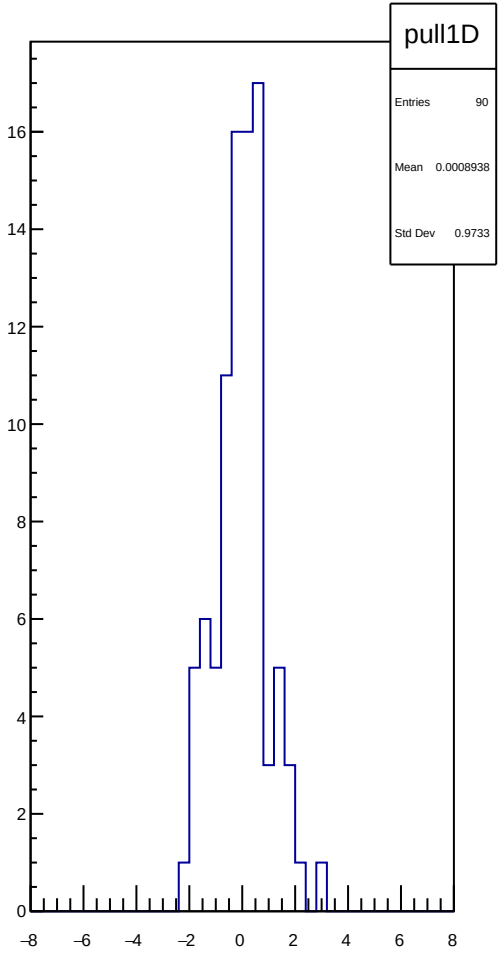

asym_sam1_rms vs run
χ^2 / ndf 4278 / 89
p0 250.6 ± 0.1879
300
290
280
270
260
250
240
230
220

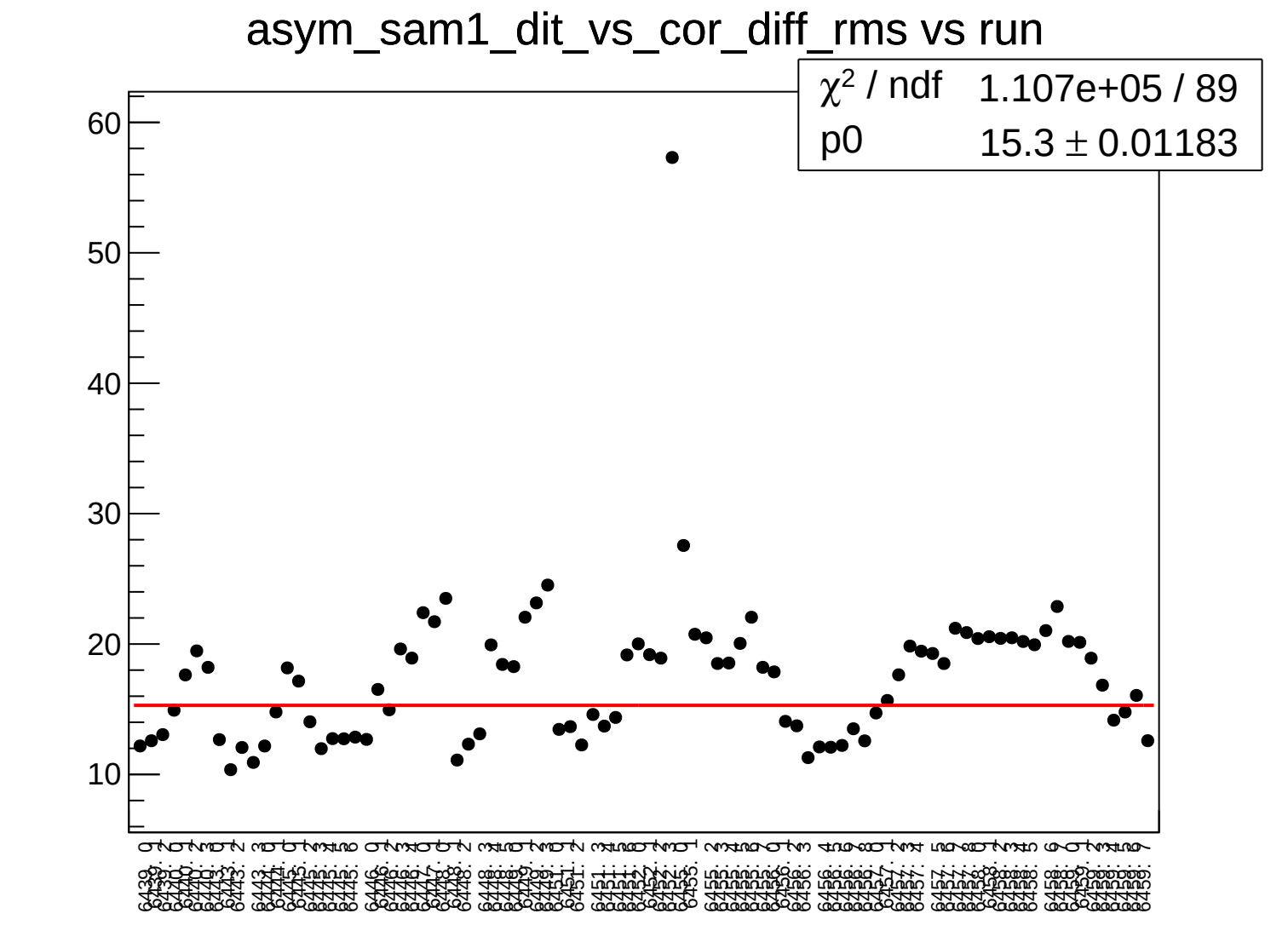

asym_sam1_reg_vs_cor_diff_mean vs run
χ² / ndf 94.66 / 89
p0 −1.325e−14 ± 7.546e−15
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
pull
Entries 90
Mean −560.7
Std Dev 0
3
2
1
0
−1
−2

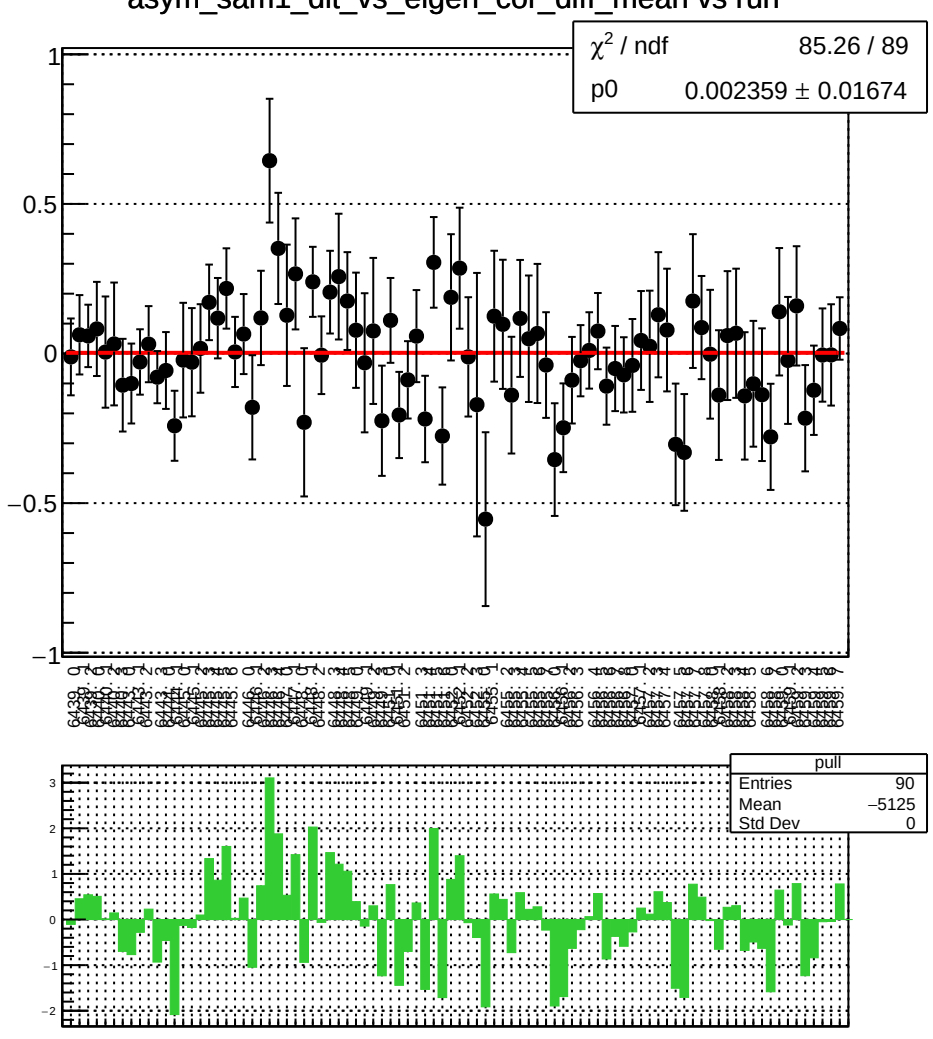

pull1D
Entries 90
Mean 0.005036
Std Dev 1.026
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

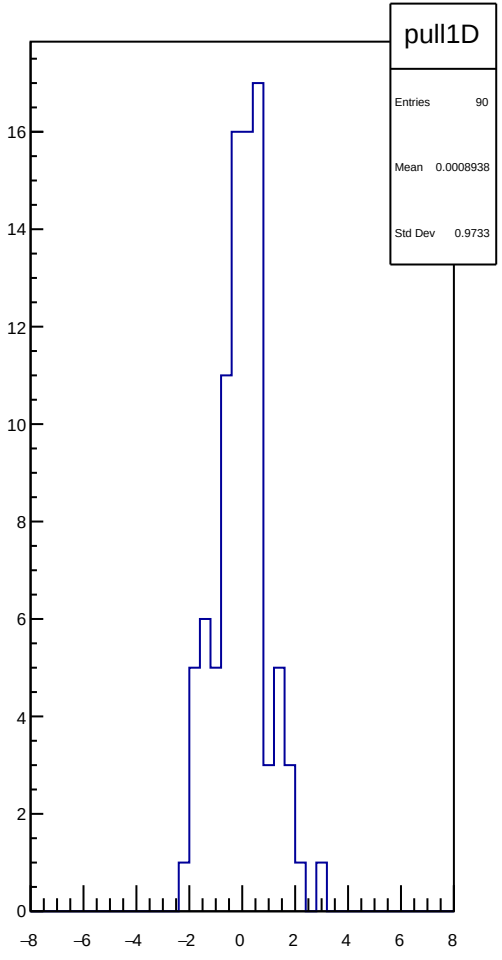

asym_sam1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.072e+06 / 89
p0 4.495e−12 ± 5.336e−15
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

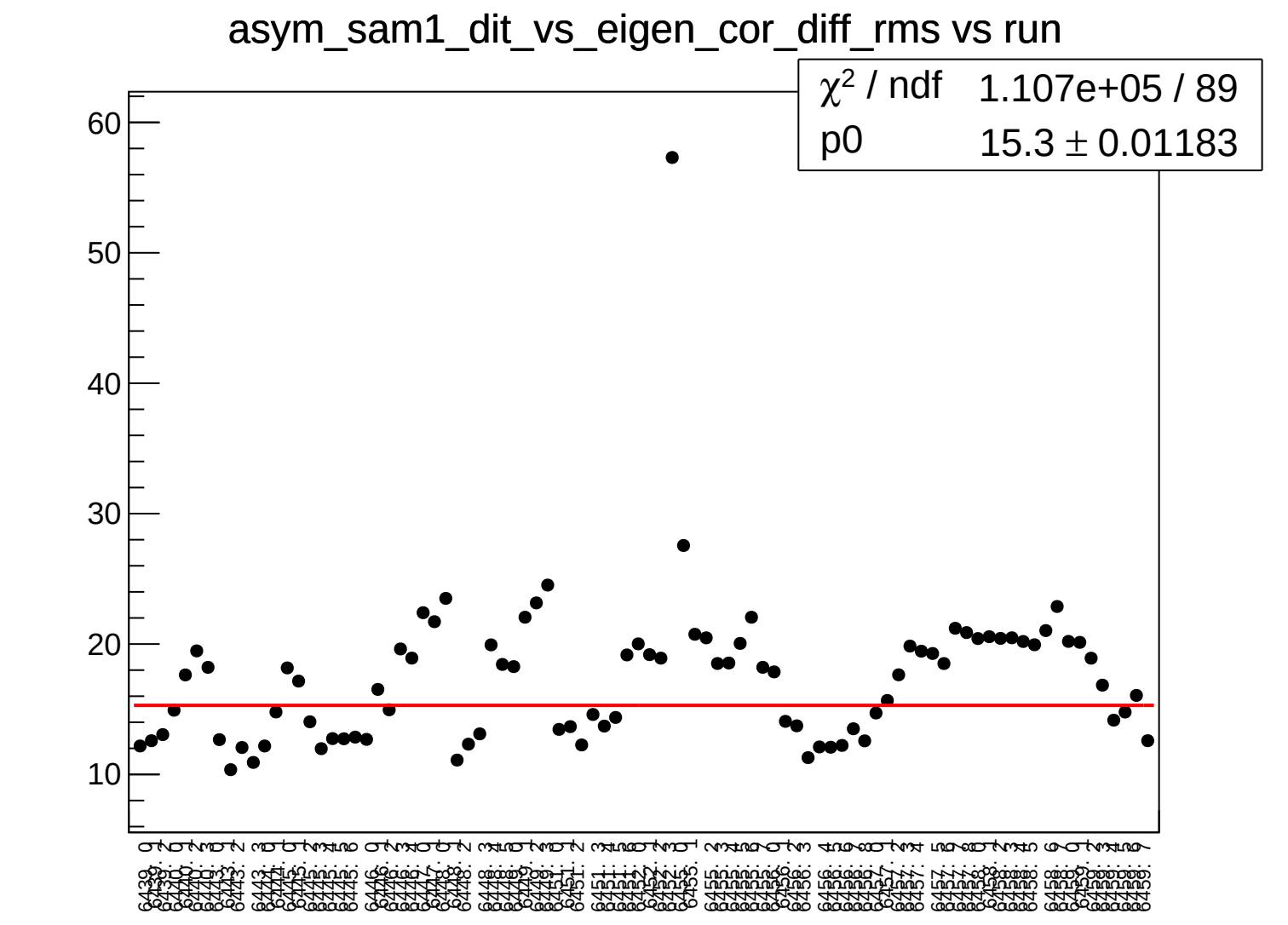

asym_sam1_dit_vs_cor_diff_mean vs run
χ² / ndf 85.26 / 89
p0 0.002359 ± 0.01674
pull
Entries 90
Mean −5125
Std Dev 0

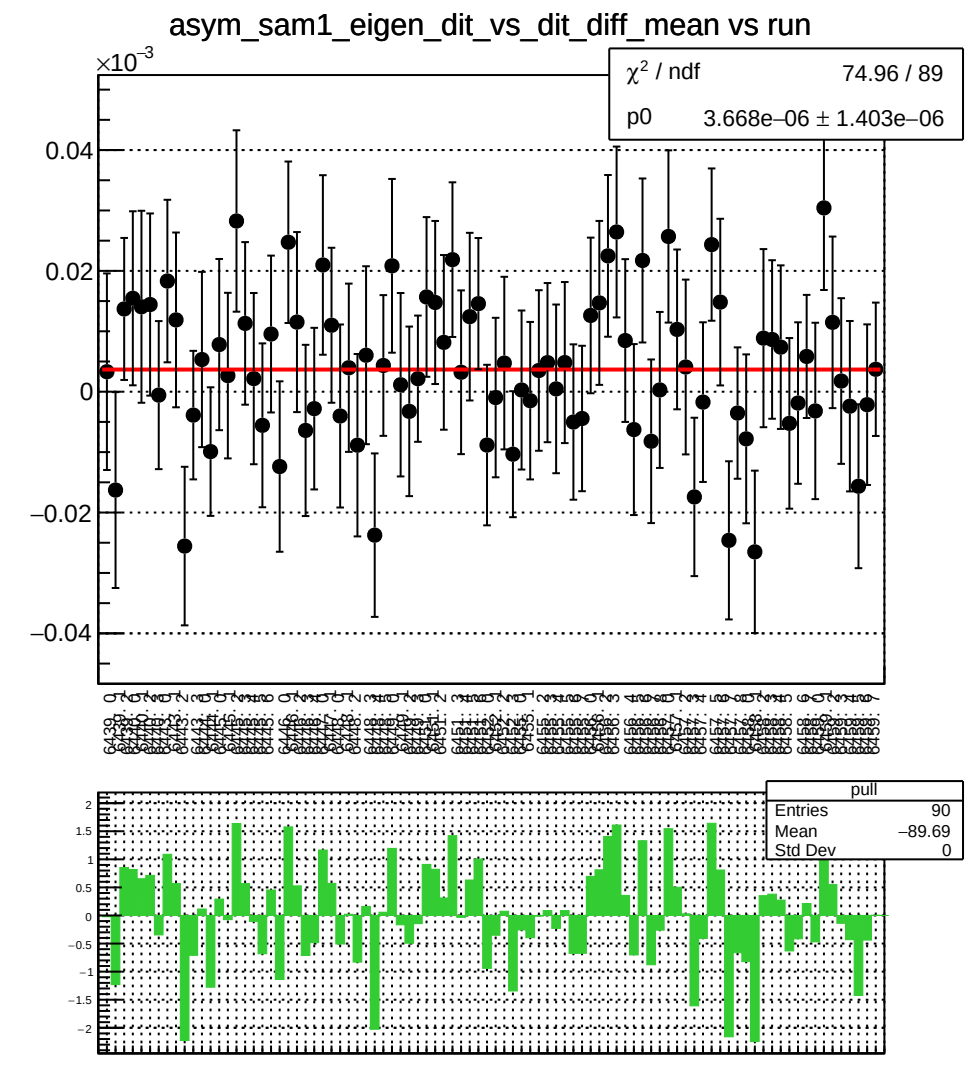

pull1D
Entries 90
Mean 0.0008938
Std Dev 0.9733

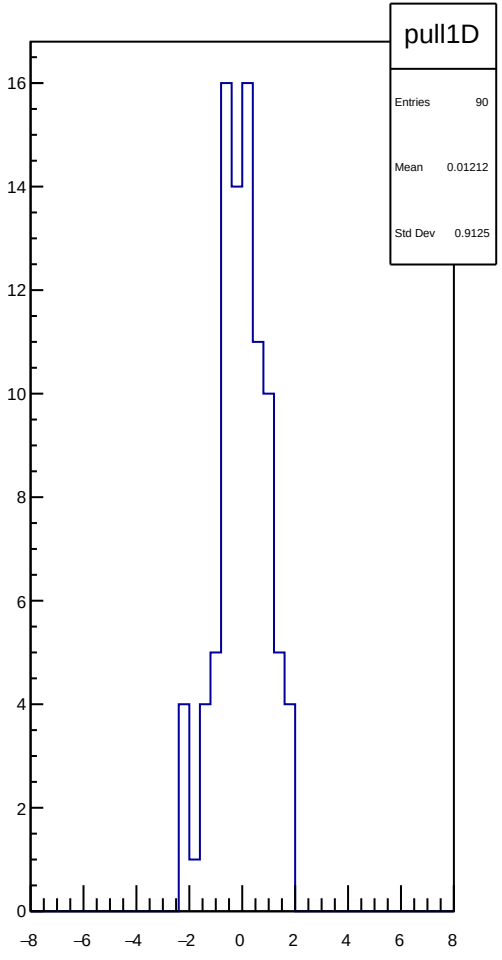

asym_sam1_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.107e+05 / 89
p0 15.3 ± 0.01183
60
50
40
30
20
10

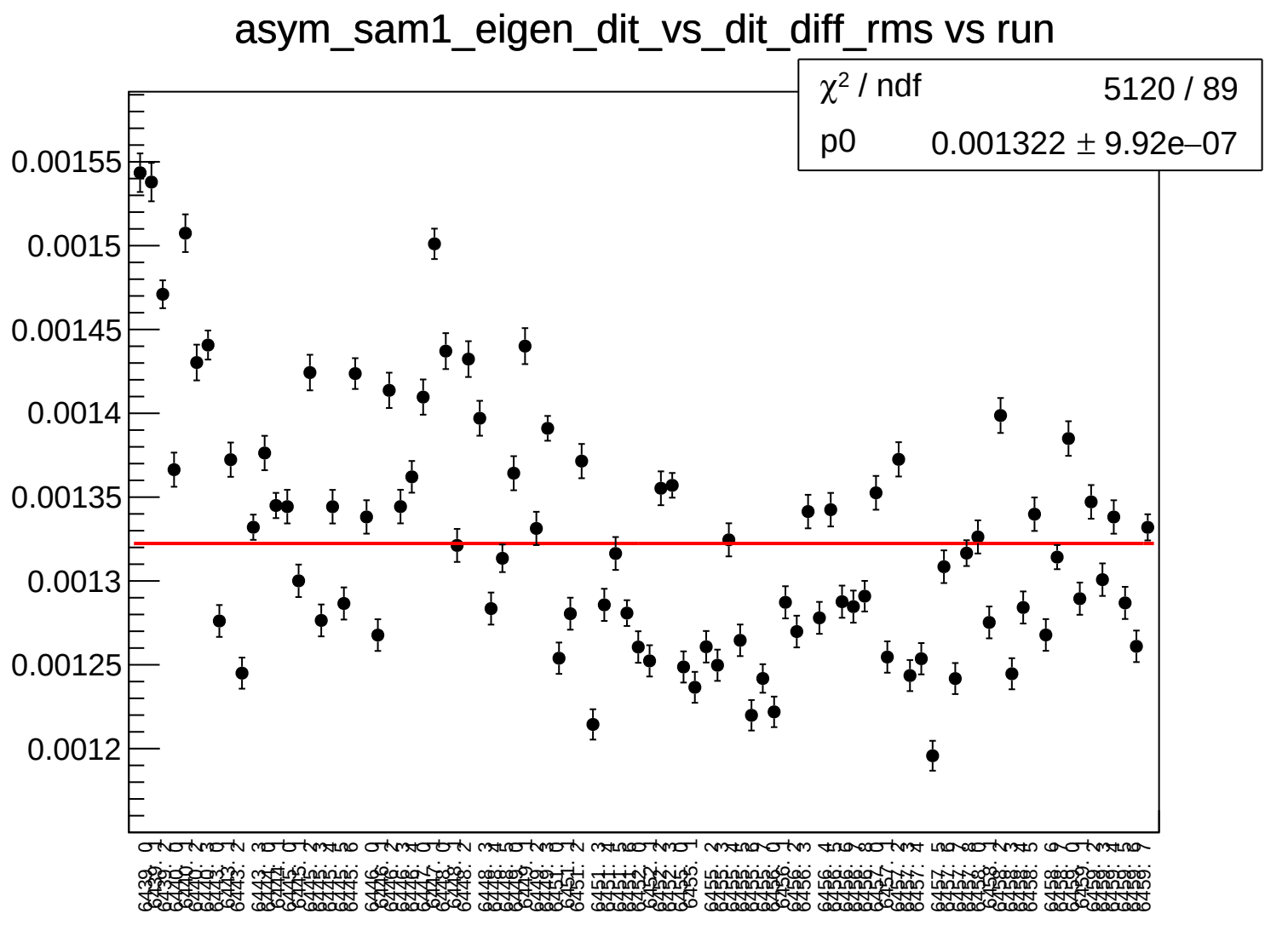

asym_sam1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.26 / 89
p0 0.002359 ± 0.01674
pull
Entries 90
Mean −5125
Std Dev 0

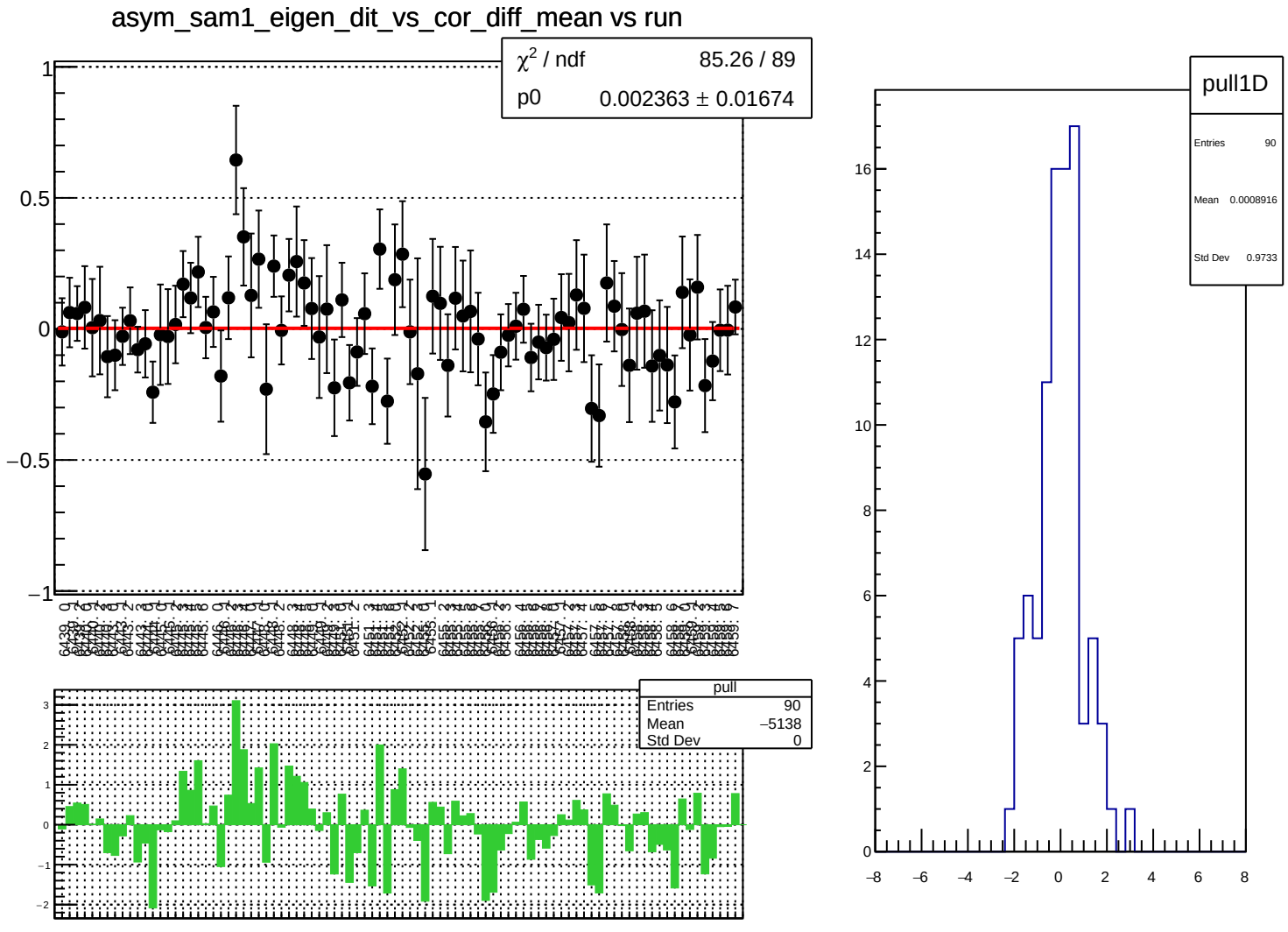

pull1D
Entries 90
Mean 0.0008938
Std Dev 0.9733

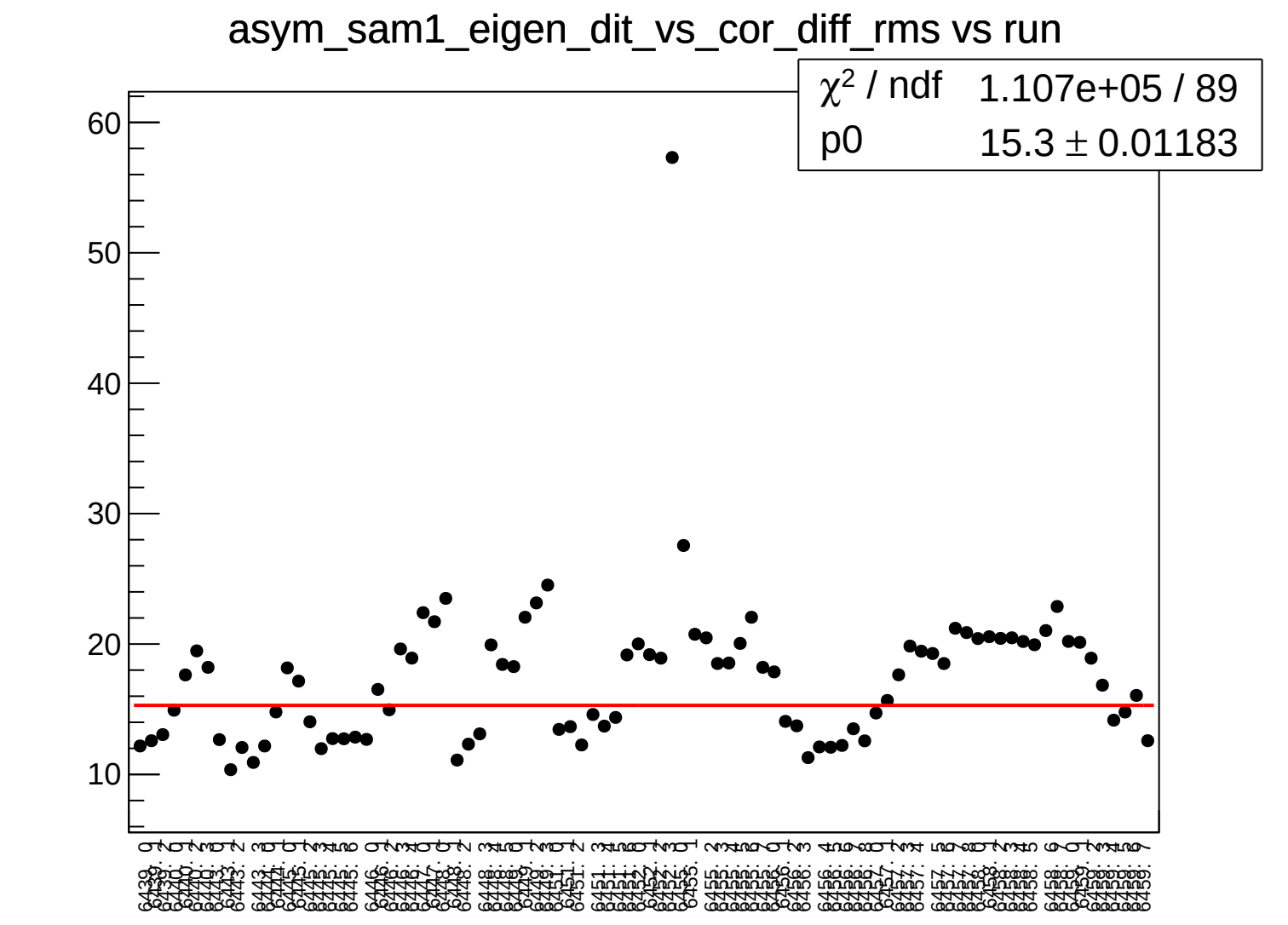

asym_sam1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.107e+05 / 89
p0 15.3 ± 0.01183
60
50
40
30
20
10

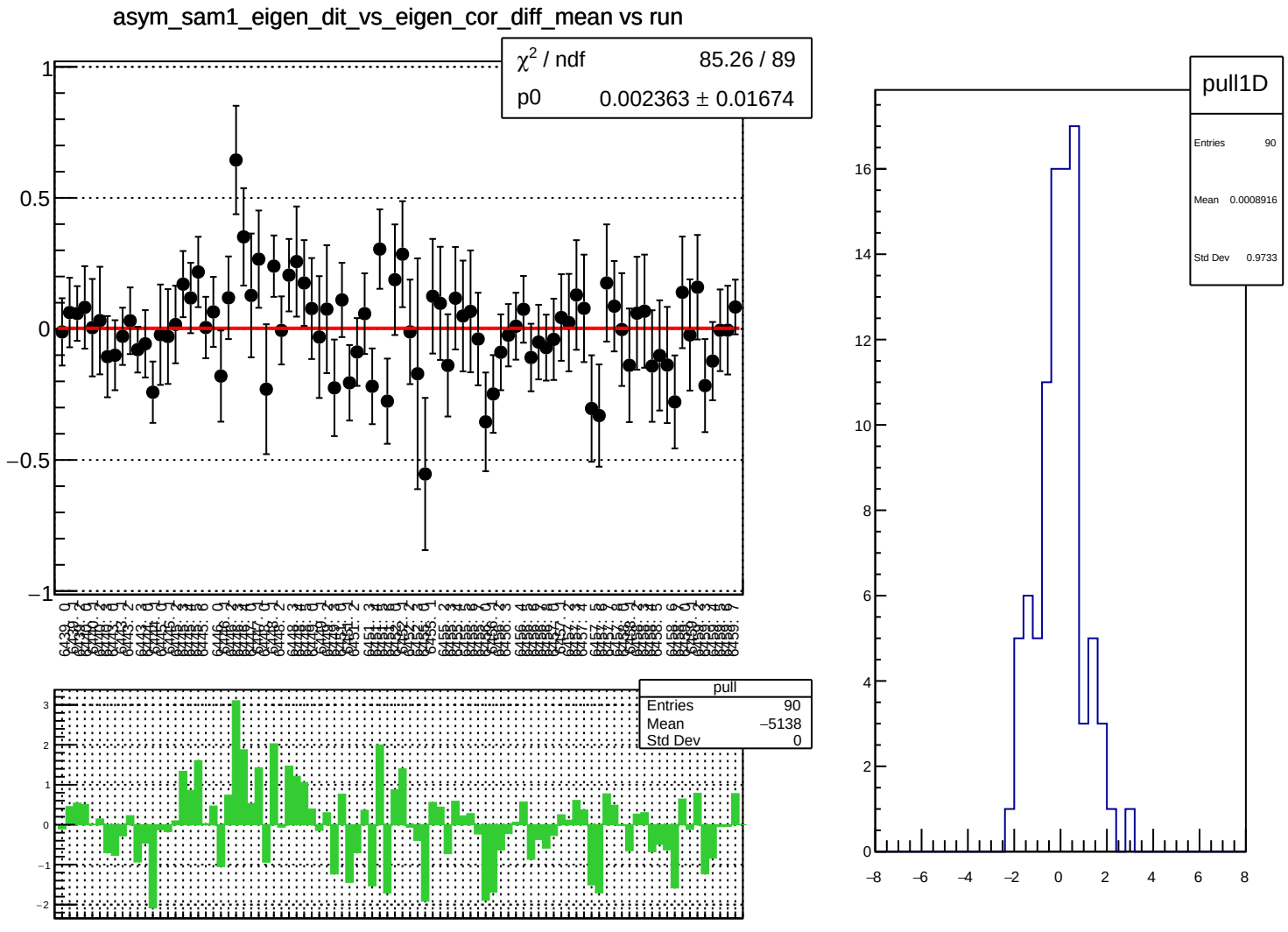

asym_sam1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 74.96 / 89
p0 3.668e−06 ± 1.403e−06
0.04
0.02
0
−0.02
−0.04
pull
Entries 90
Mean −89.69
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

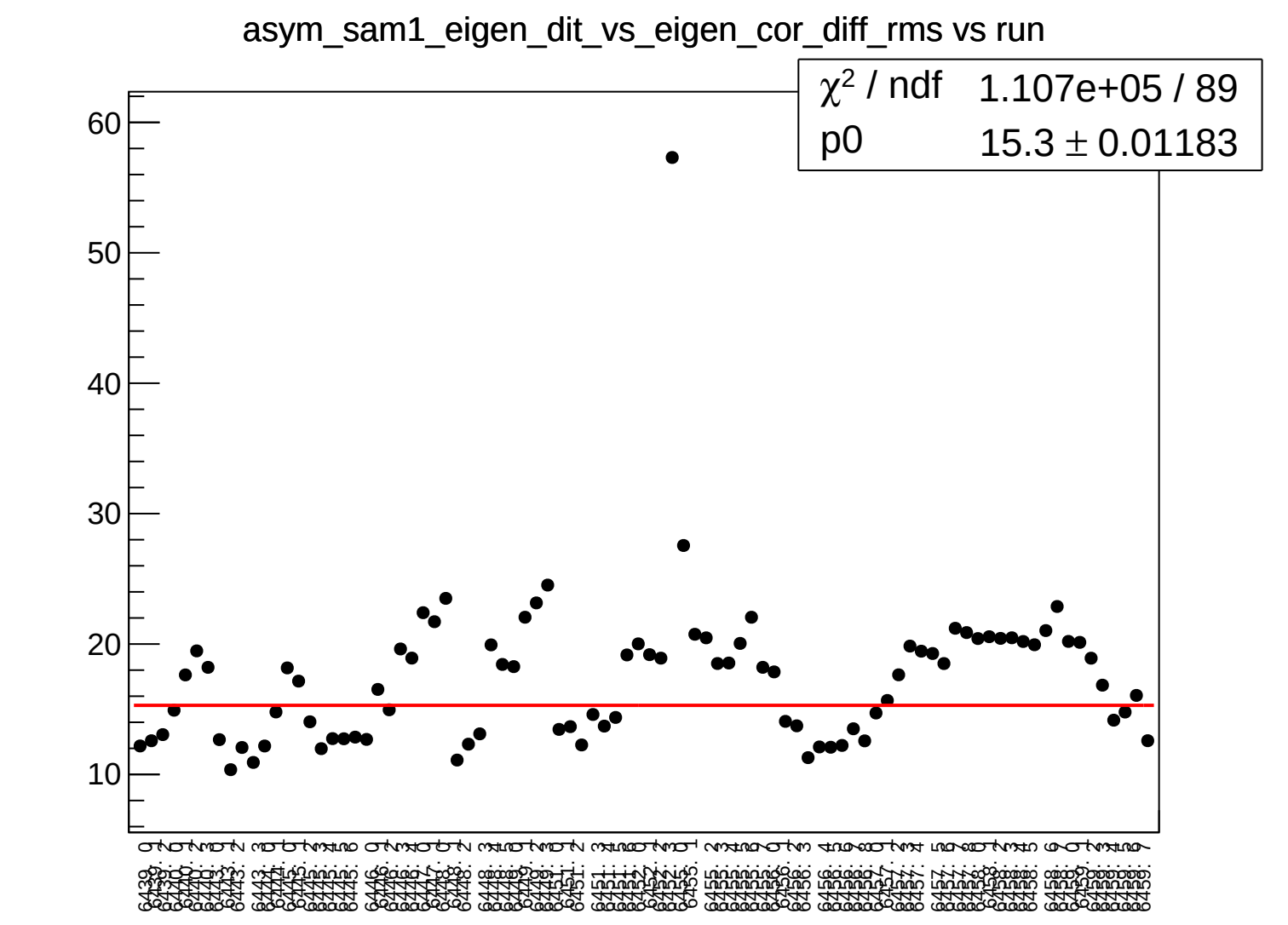

pull1D
Entries 90
Mean 0.01212
Std Dev 0.9125
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

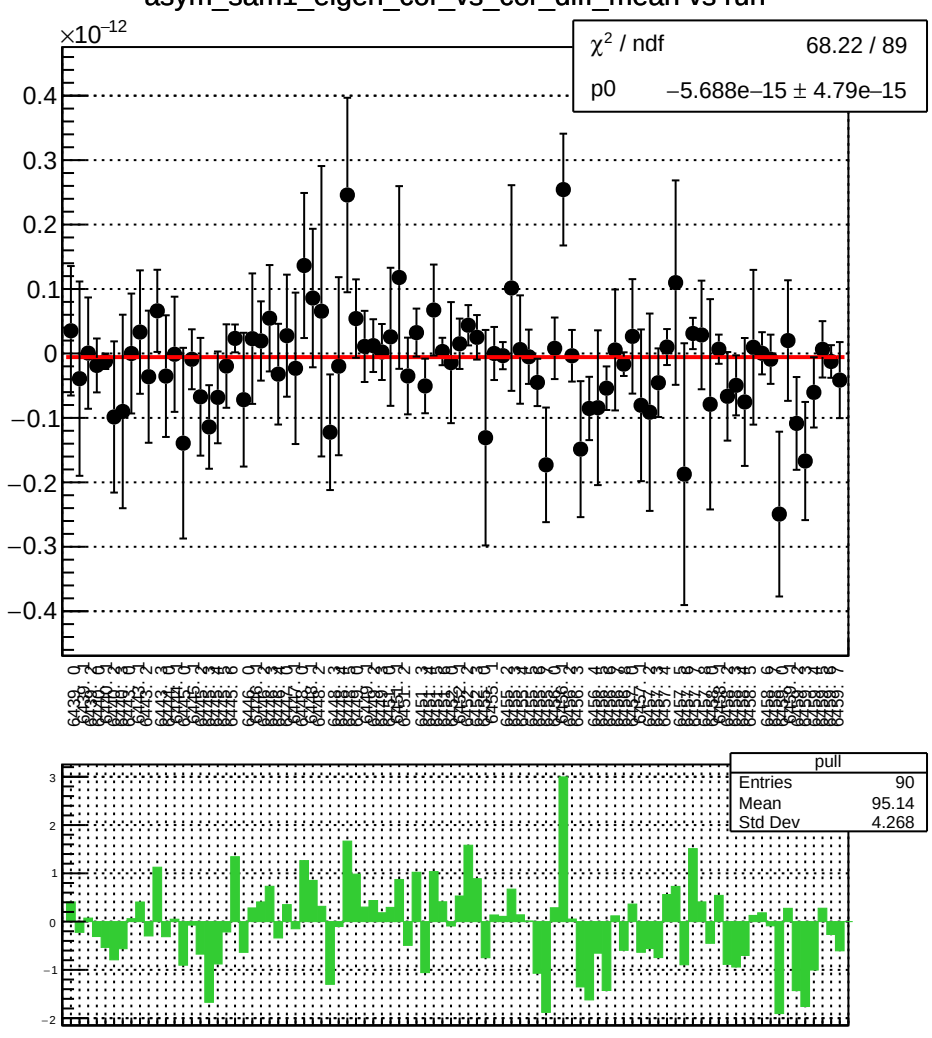

asym_sam1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5120 / 89
p0 0.001322 ± 9.92e–07
0.00155
0.0015
0.00145
0.0014
0.00135
0.0013
0.00125
0.0012

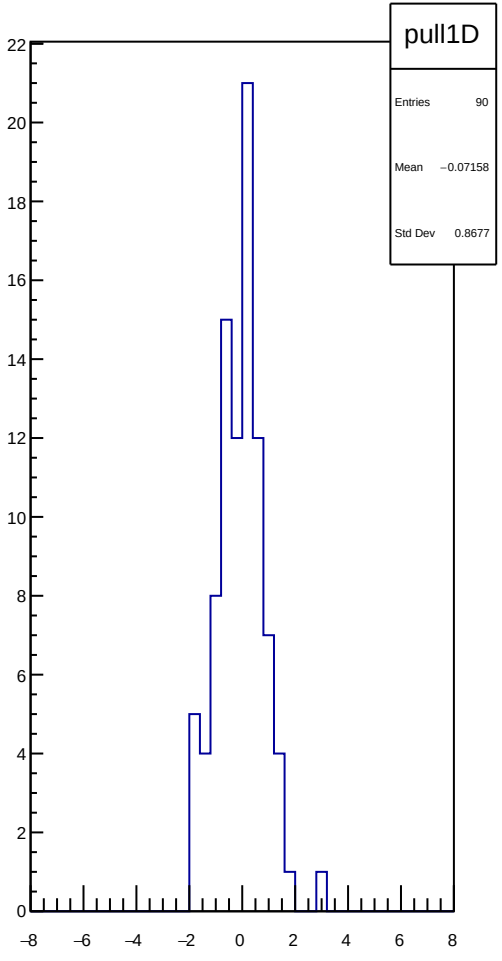

asym_sam1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.26 / 89
p0 0.002363 ± 0.01674
pull
Entries 90
Mean −5138
Std Dev 0
pull1D
Entries 90
Mean 0.0008916
Std Dev 0.9733

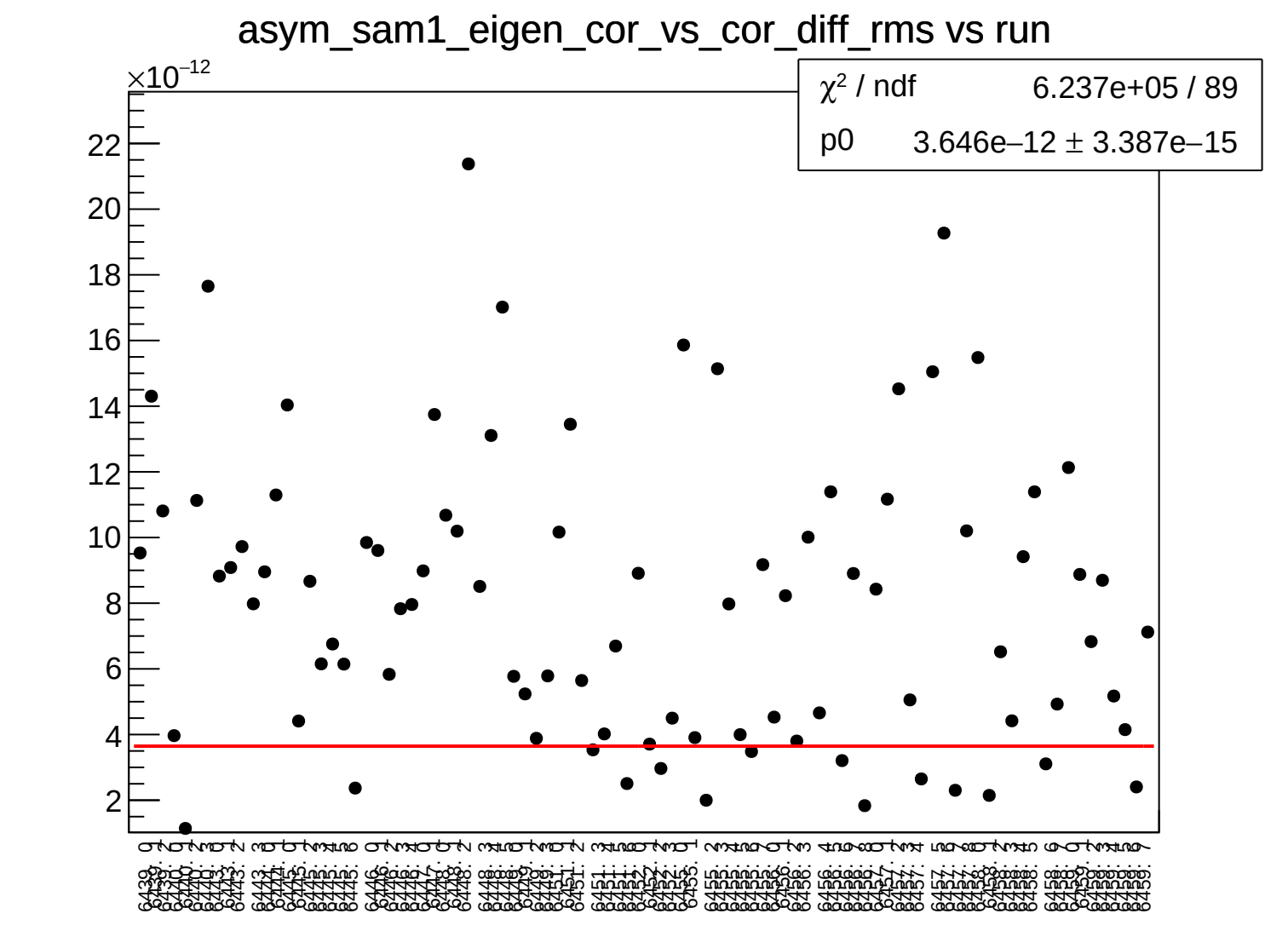

asym_sam1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.107e+05 / 89
p0 15.3 ± 0.01183
60
50
40
30
20
10

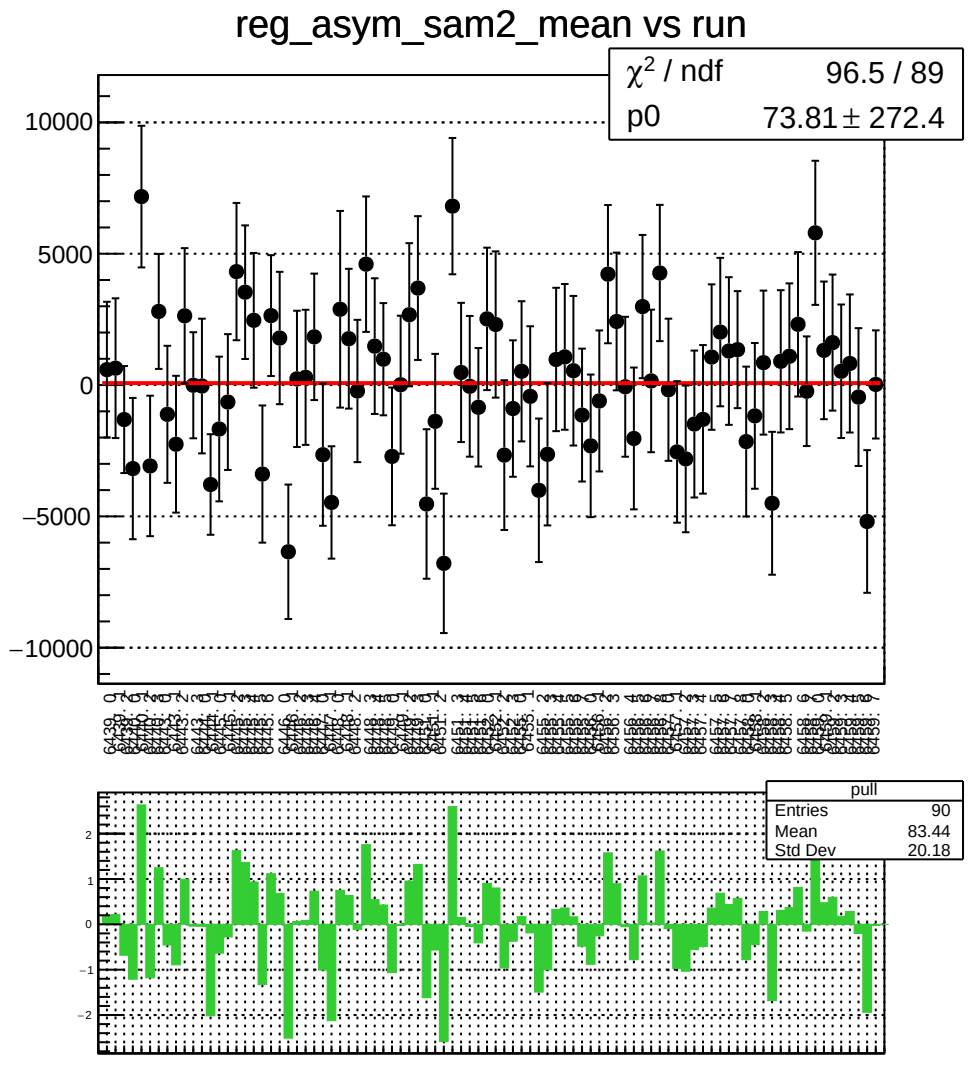

asym_sam1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.26 / 89
p0 0.002363 ± 0.01674
pull
Entries 90
Mean −5138
Std Dev 0
pull1D
Entries 90
Mean 0.0008916
Std Dev 0.9733

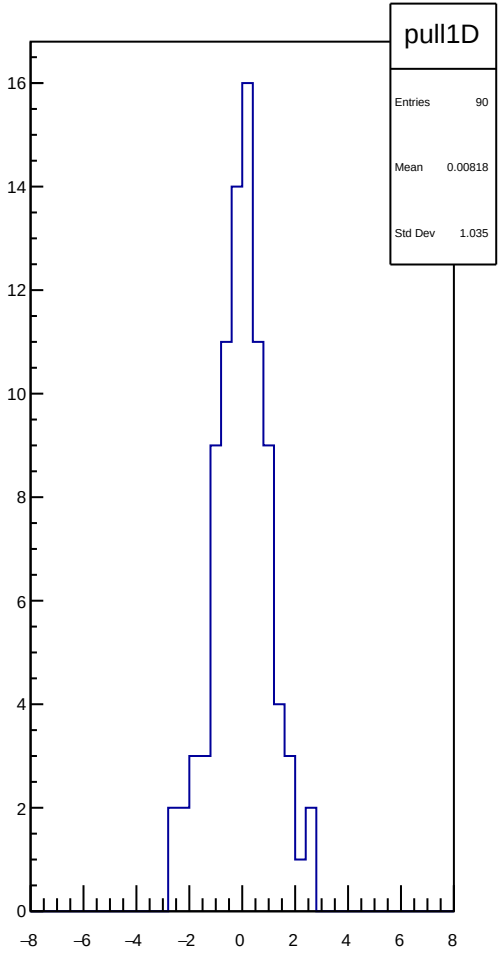

asym_sam1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.107e+05 / 89
p0 15.3 ± 0.01183
60
50
40
30
20
10

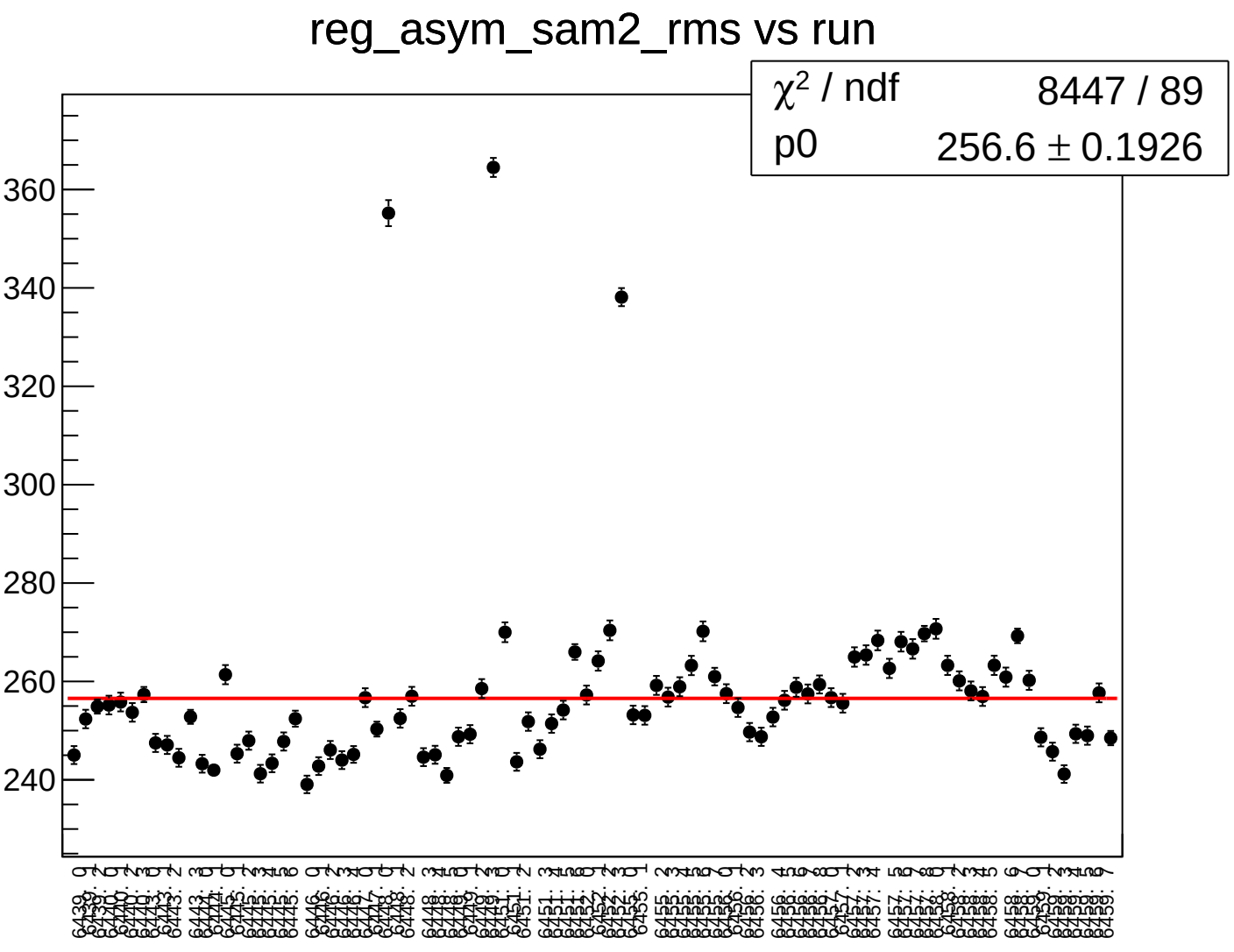

asym_sam1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 68.22 / 89
p0 −5.688e−15 ± 4.79e−15
pull
Entries 90
Mean 95.14
Std Dev 4.268

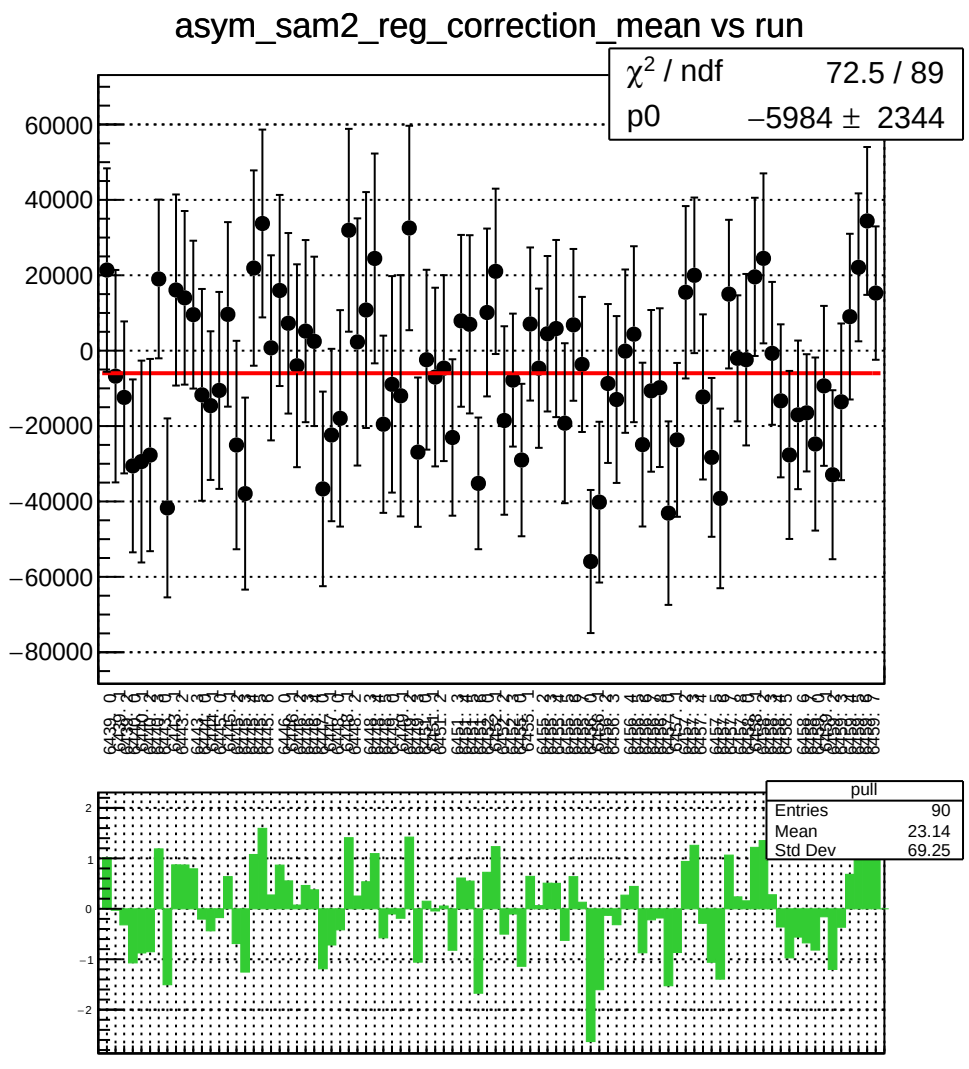

pull1D
Entries 90
Mean −0.07158
Std Dev 0.8677

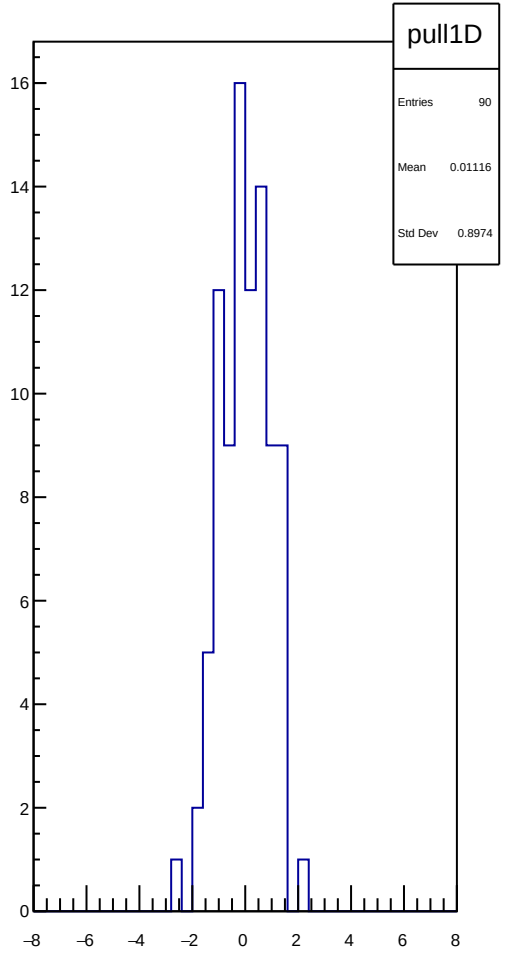

asym_sam1_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.237e+05 / 89
p0 3.646e−12 ± 3.387e−15
22
20
18
16
14
12
10
8
6
4
2

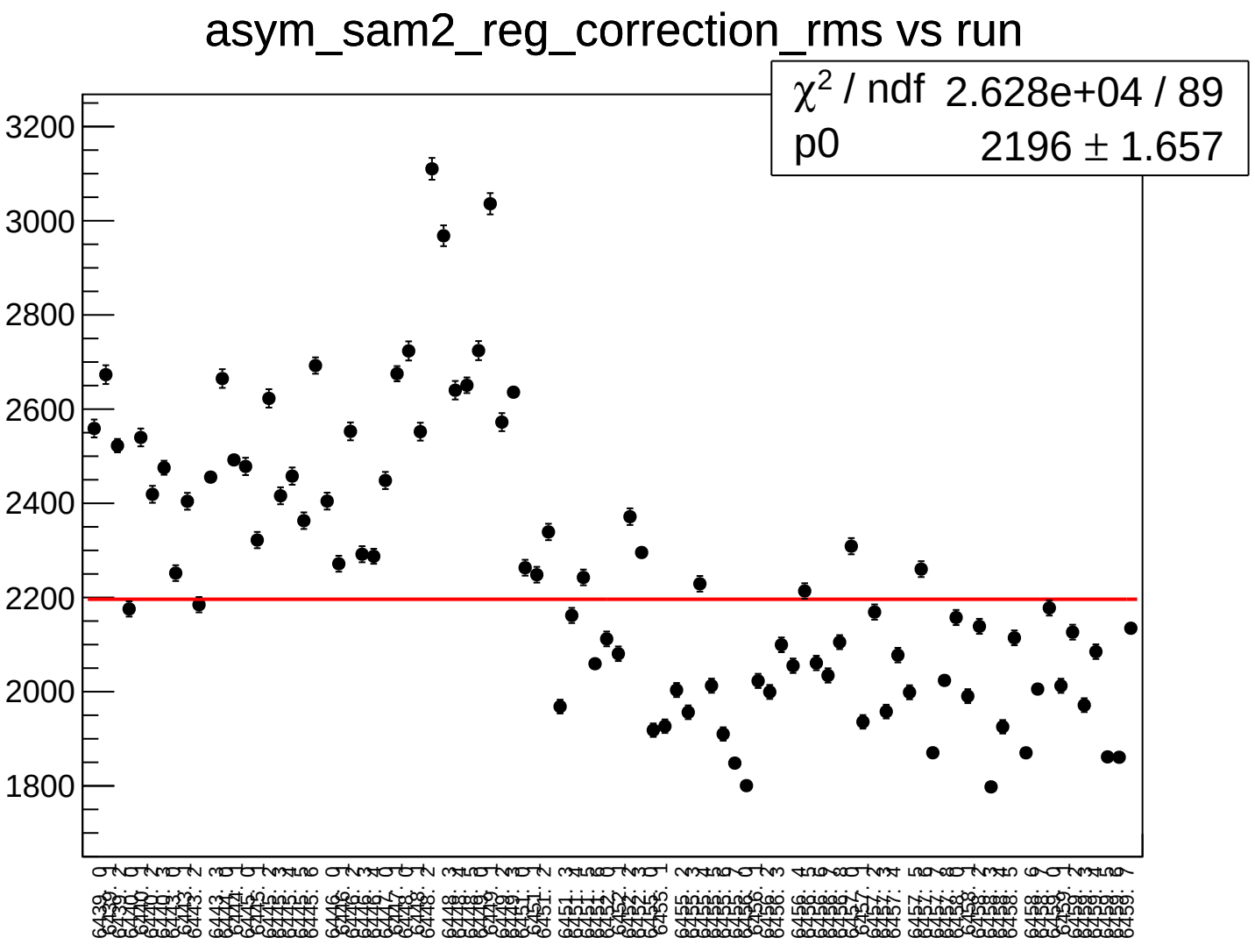

reg_asym_sam2_mean vs run
χ² / ndf 96.5 / 89
p0 73.81 ± 272.4
10000
5000
0
−5000
−10000
pull
Entries 90
Mean 83.44
Std Dev 20.18
2
1
0
−1
−2

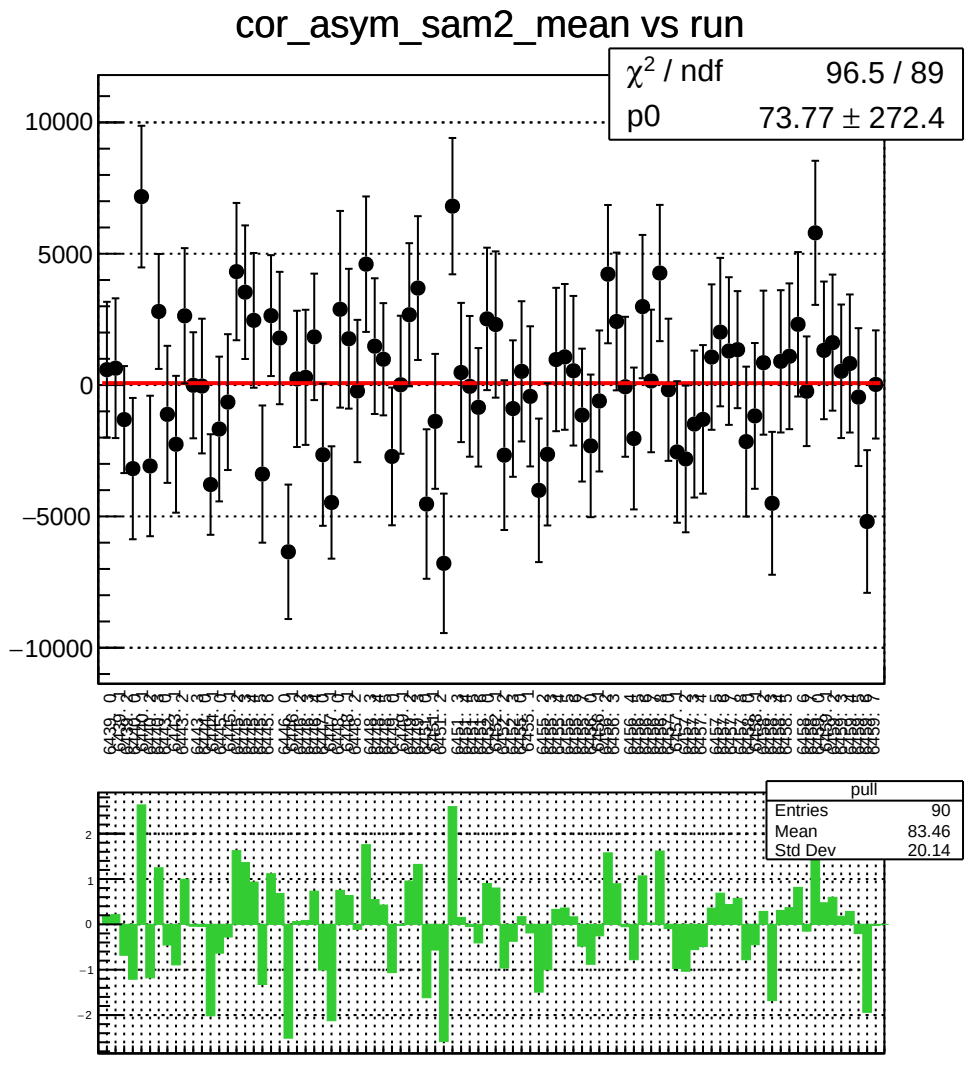

pull1D
Entries 90
Mean 0.00818
Std Dev 1.035
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

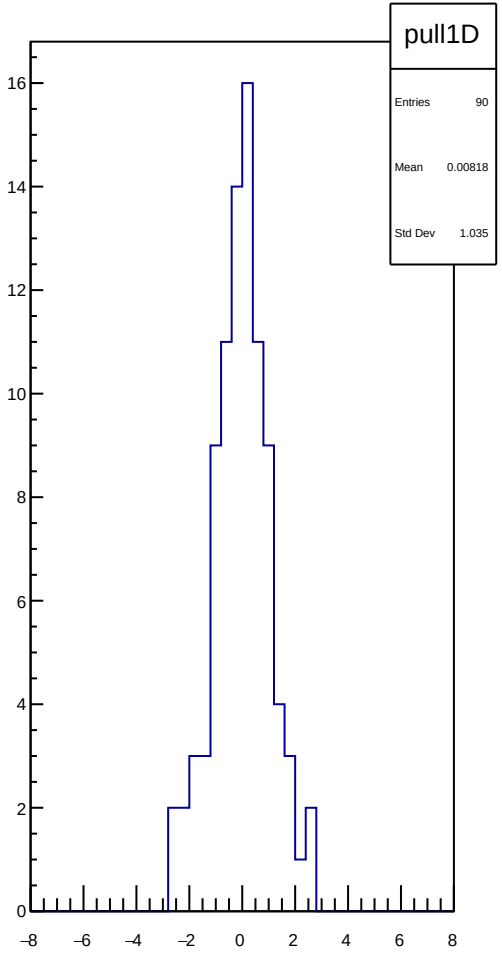

reg_asym_sam2_rms vs run
χ² / ndf 8447 / 89
p0 256.6 ± 0.1926
360
340
320
300
280
260
240

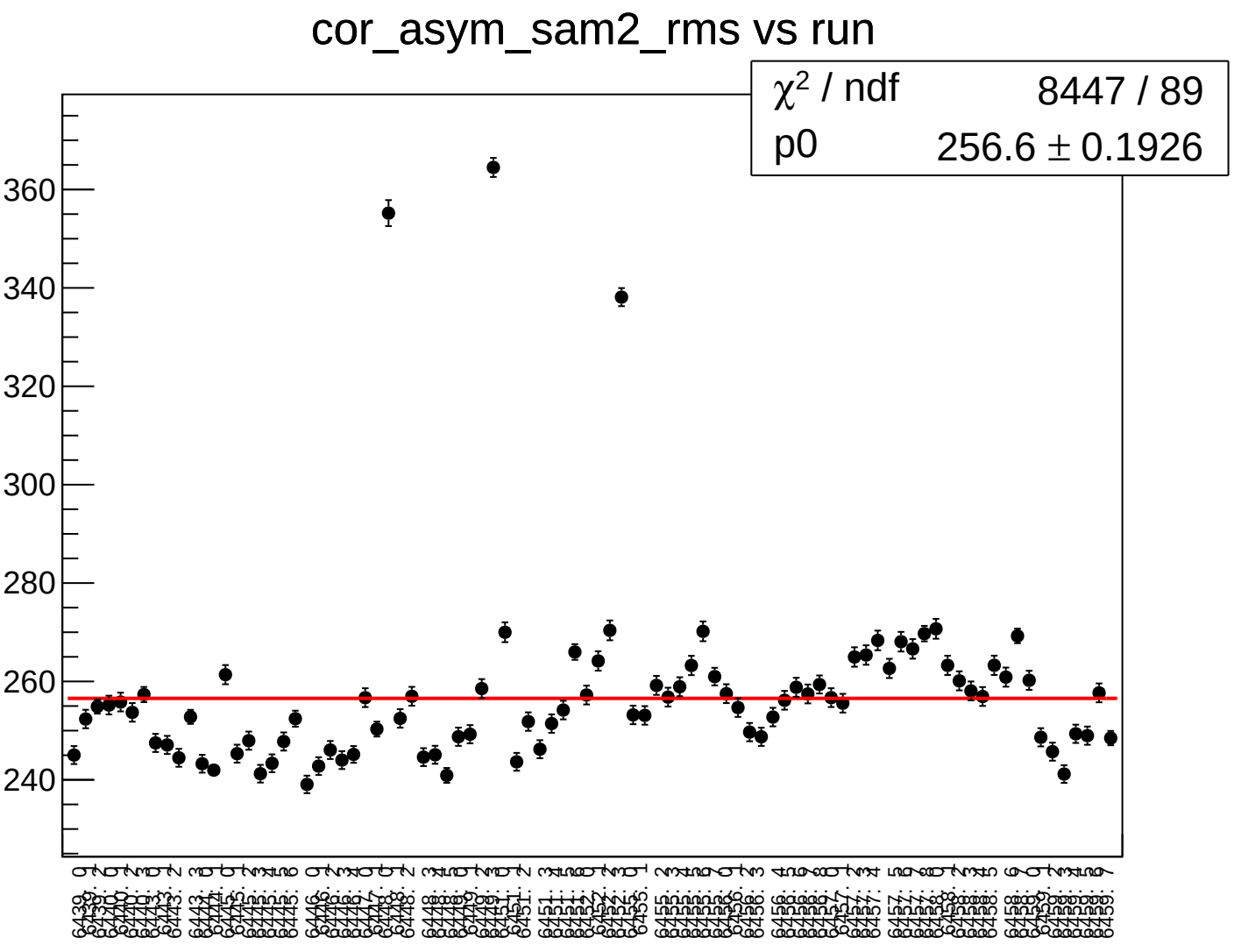

asym_sam2_reg_correction_mean vs run
χ² / ndf 72.5 / 89
p0 −5984 ± 2344
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 90
Mean 23.14
Std Dev 69.25
2
1
0
−1
−2

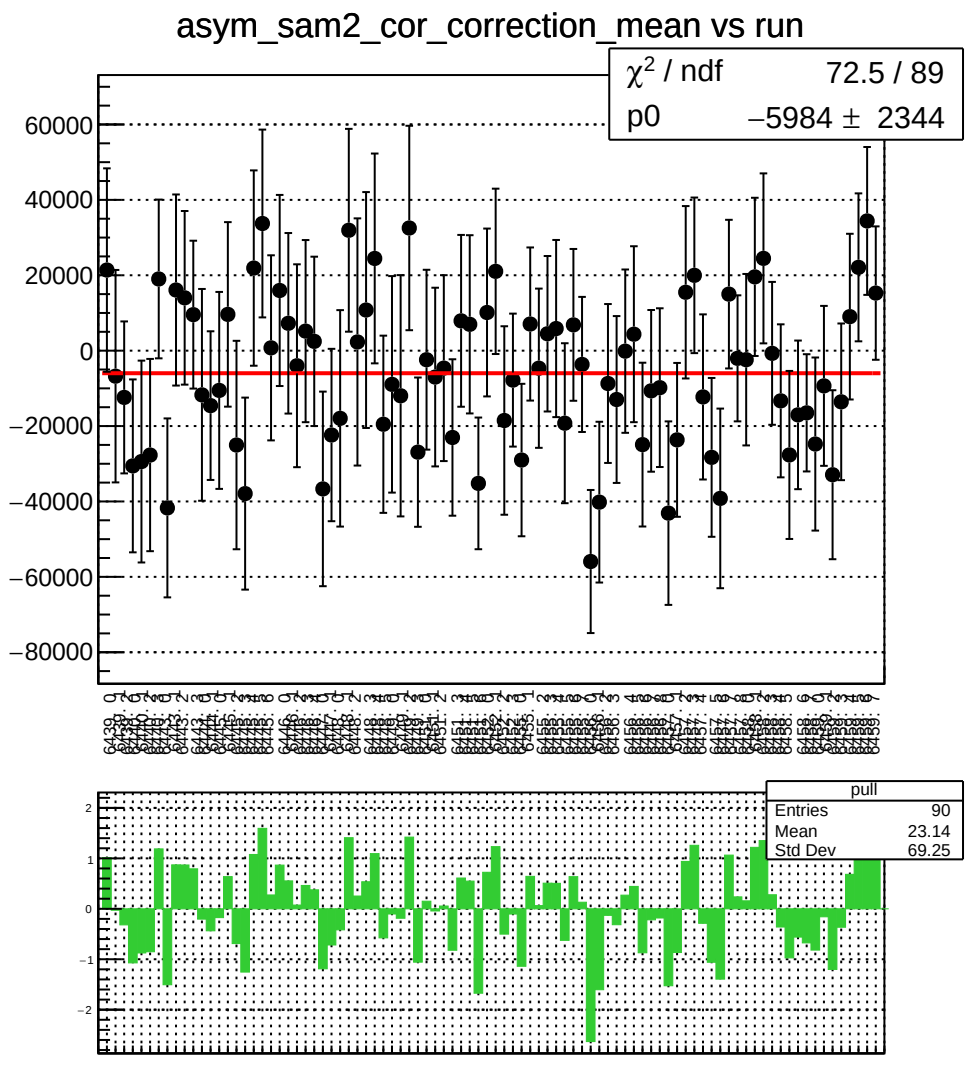

pull1D
Entries 90
Mean 0.01116
Std Dev 0.8974
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

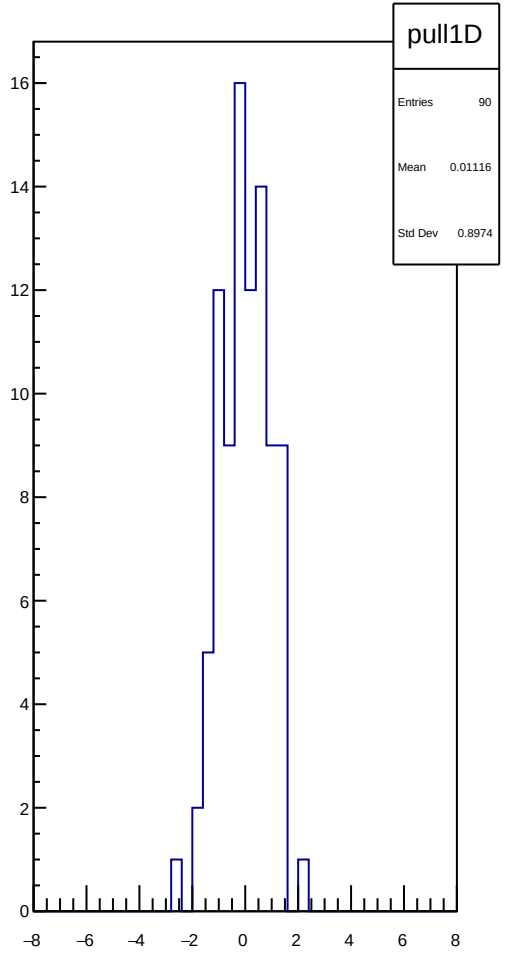

asym_sam2_reg_correction_rms vs run
χ² / ndf 2.628e+04 / 89
p0 2196 ± 1.657
3200
3000
2800
2600
2400
2200
2000
1800

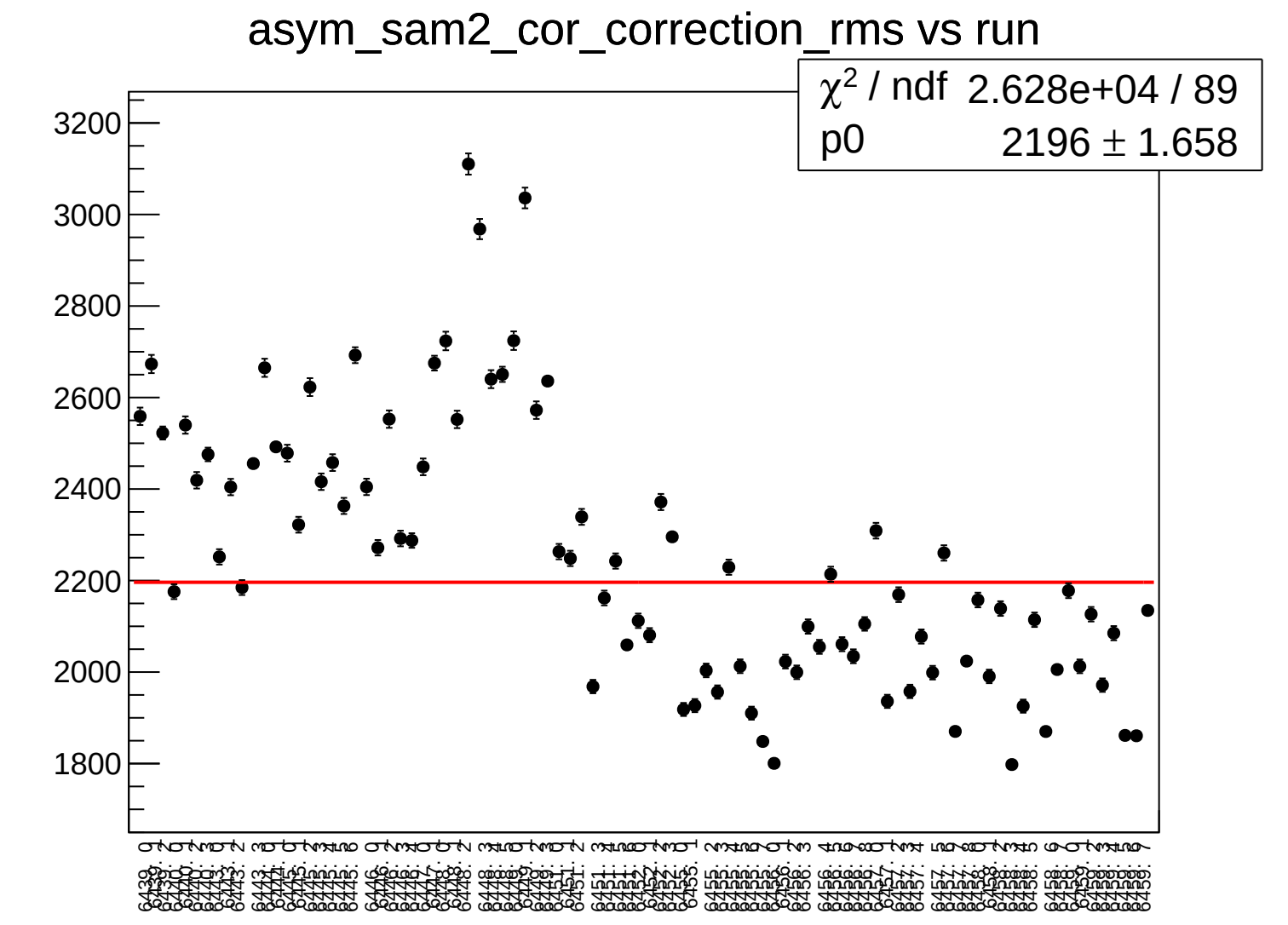

cor_asym_sam2_mean vs run
χ² / ndf 96.5 / 89
p0 73.77 ± 272.4
10000
5000
0
−5000
−10000
pull
Entries 90
Mean 83.46
Std Dev 20.14
2
1
0
−1
−2

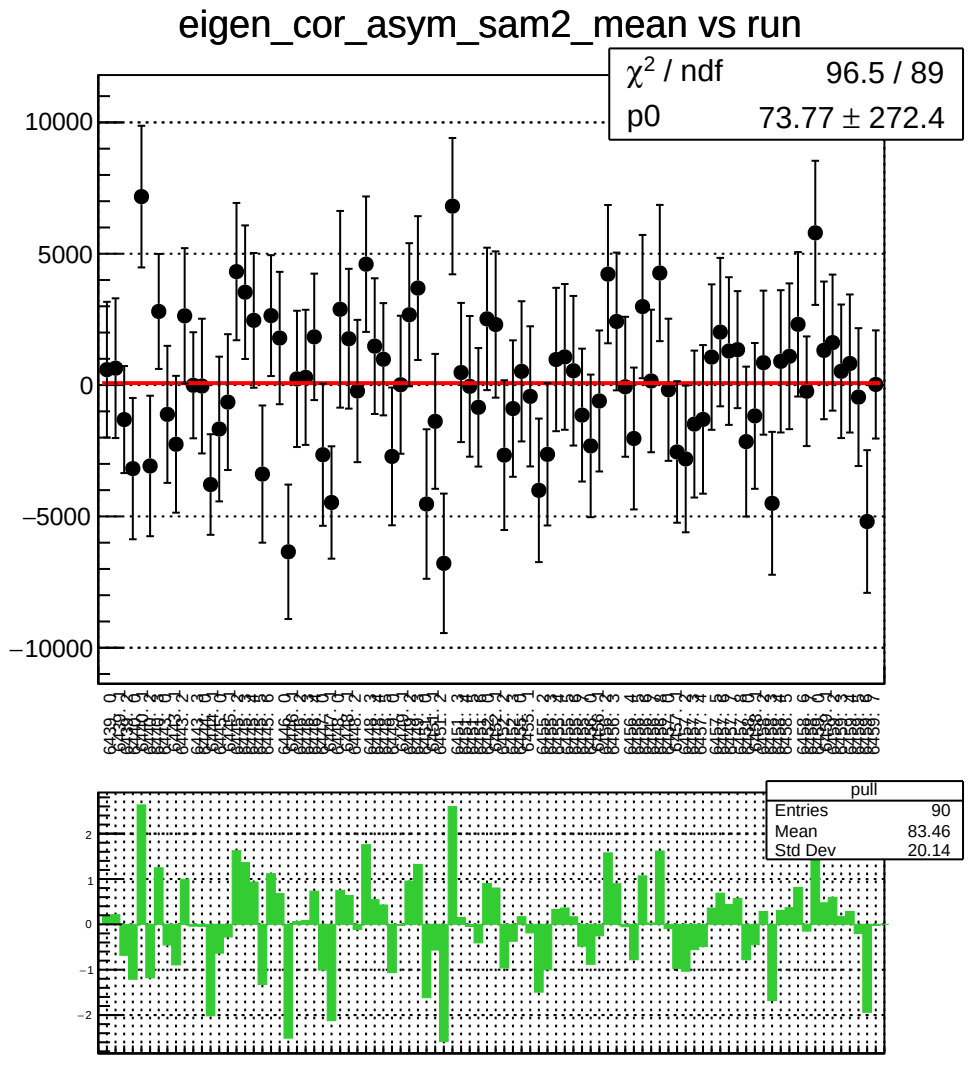

pull1D
Entries 90
Mean 0.00818
Std Dev 1.035
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

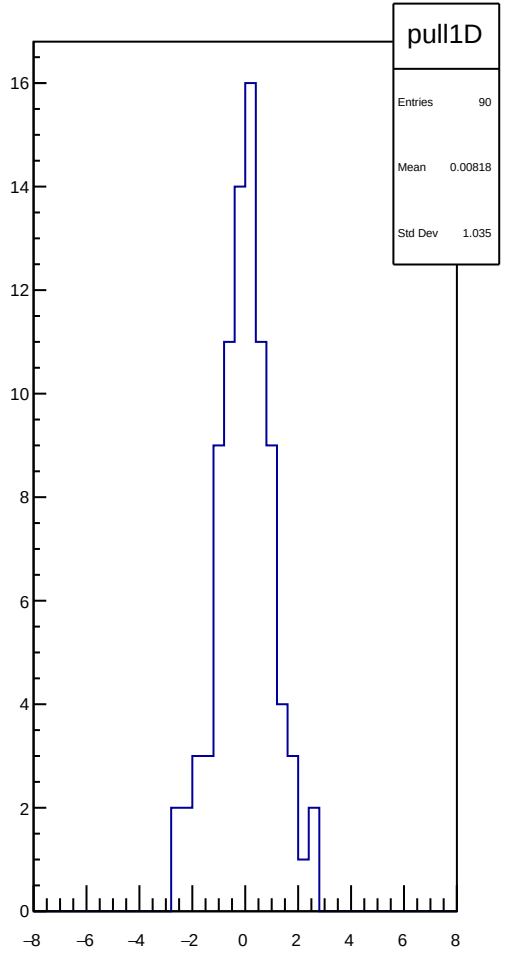

cor_asym_sam2_rms vs run
χ² / ndf 8447 / 89
p0 256.6 ± 0.1926
360
340
320
300
280
260
240


asym_sam2_cor_correction_mean vs run
χ² / ndf 72.5 / 89
p0 −5984 ± 2344
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 90
Mean 23.14
Std Dev 69.25
2
1
0
−1
−2


pull1D
Entries 90
Mean 0.01116
Std Dev 0.8974
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam2_cor_correction_rms vs run
χ² / ndf 2.628e+04 / 89
p0 2196 ± 1.658
3200
3000
2800
2600
2400
2200
2000
1800


eigen_cor_asym_sam2_mean vs run
χ² / ndf 96.5 / 89
p0 73.77 ± 272.4
10000
5000
0
−5000
−10000
pull
Entries 90
Mean 83.46
Std Dev 20.14
2
1
0
−1
−2


pull1D
Entries 90
Mean 0.00818
Std Dev 1.035
16
14
12
10
8
6
4
2
0
−8
−6
−4
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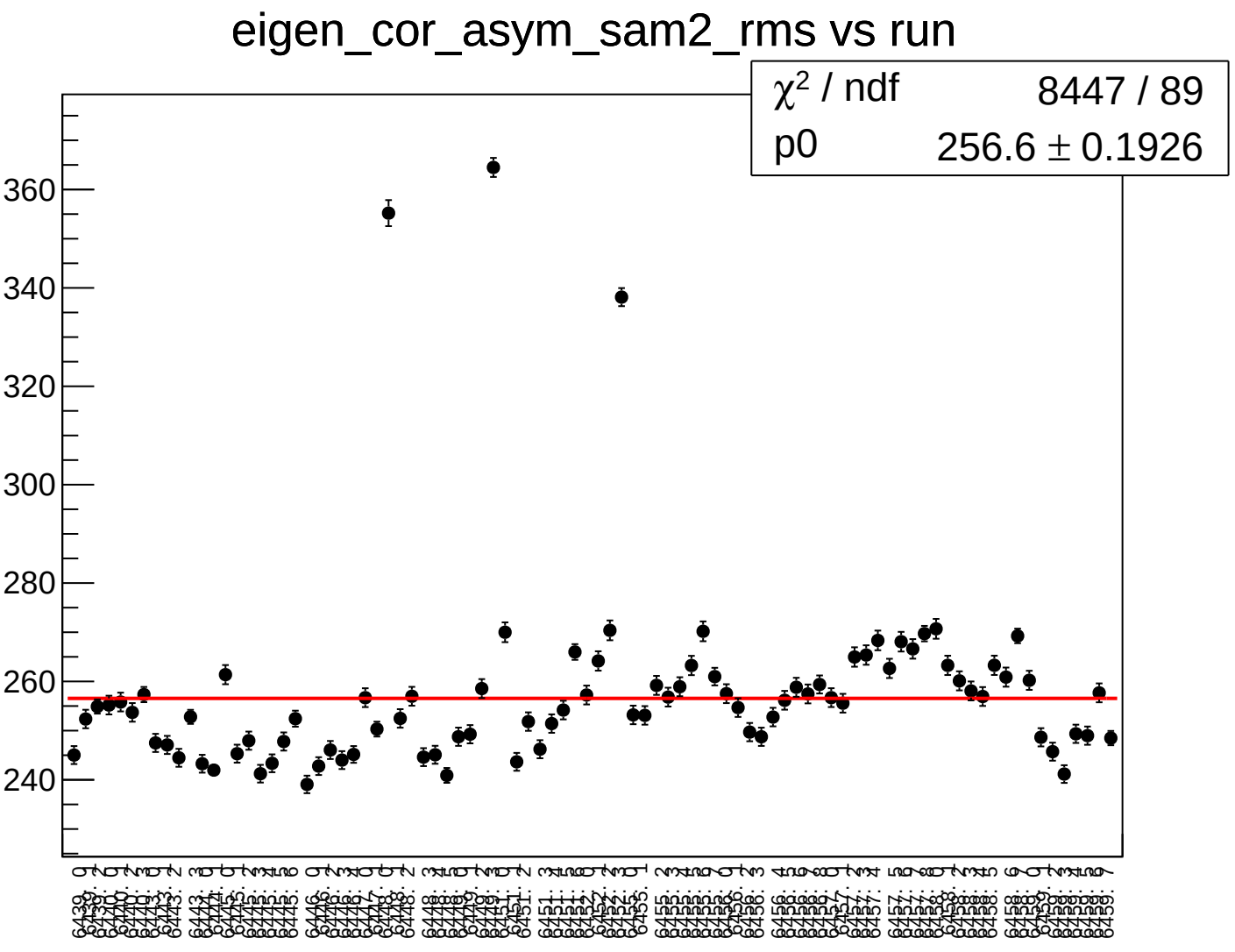
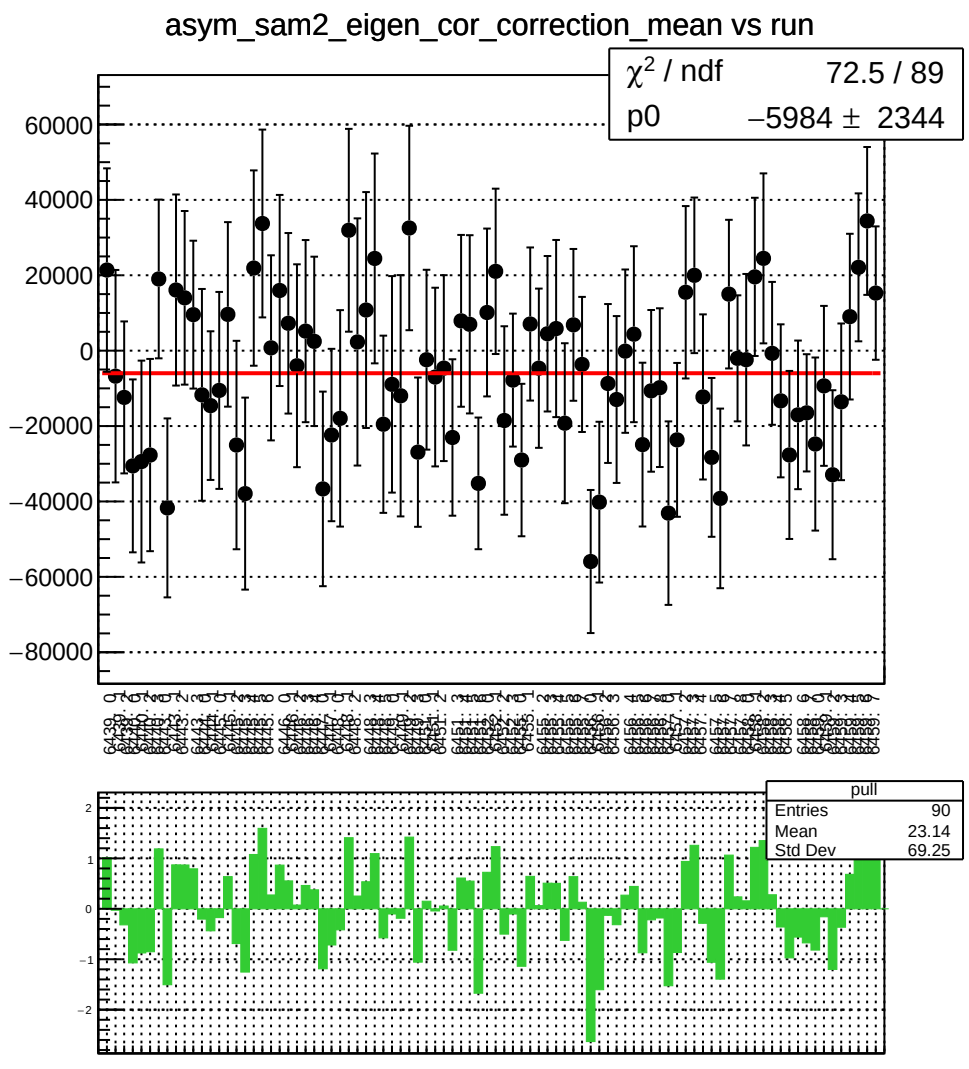
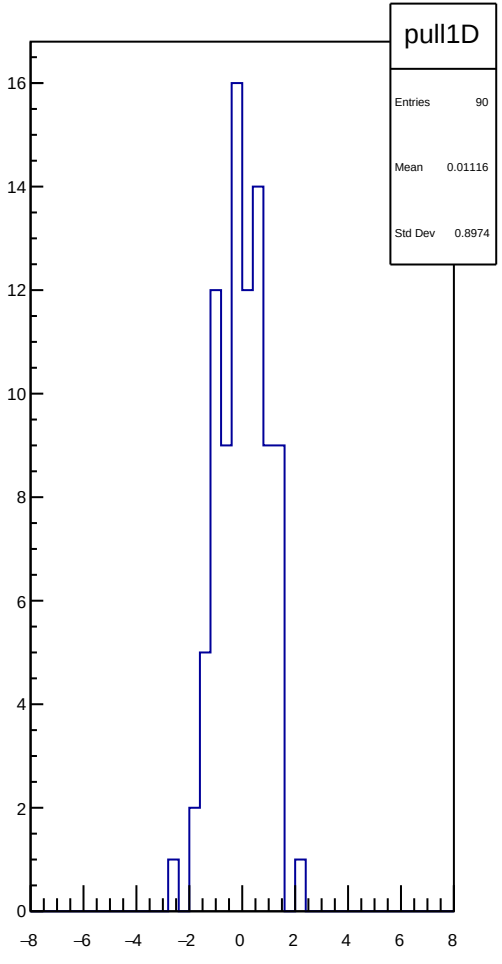
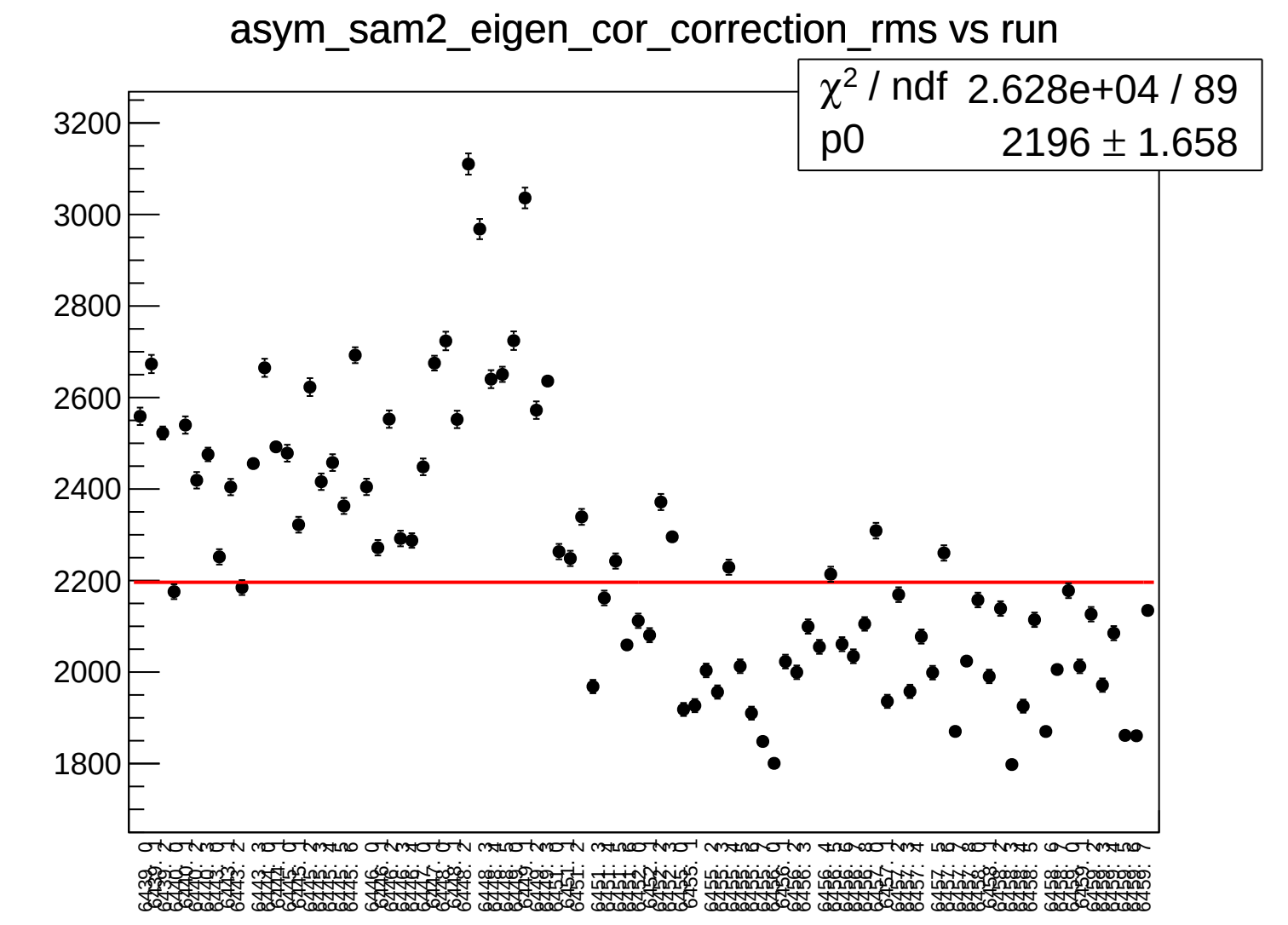
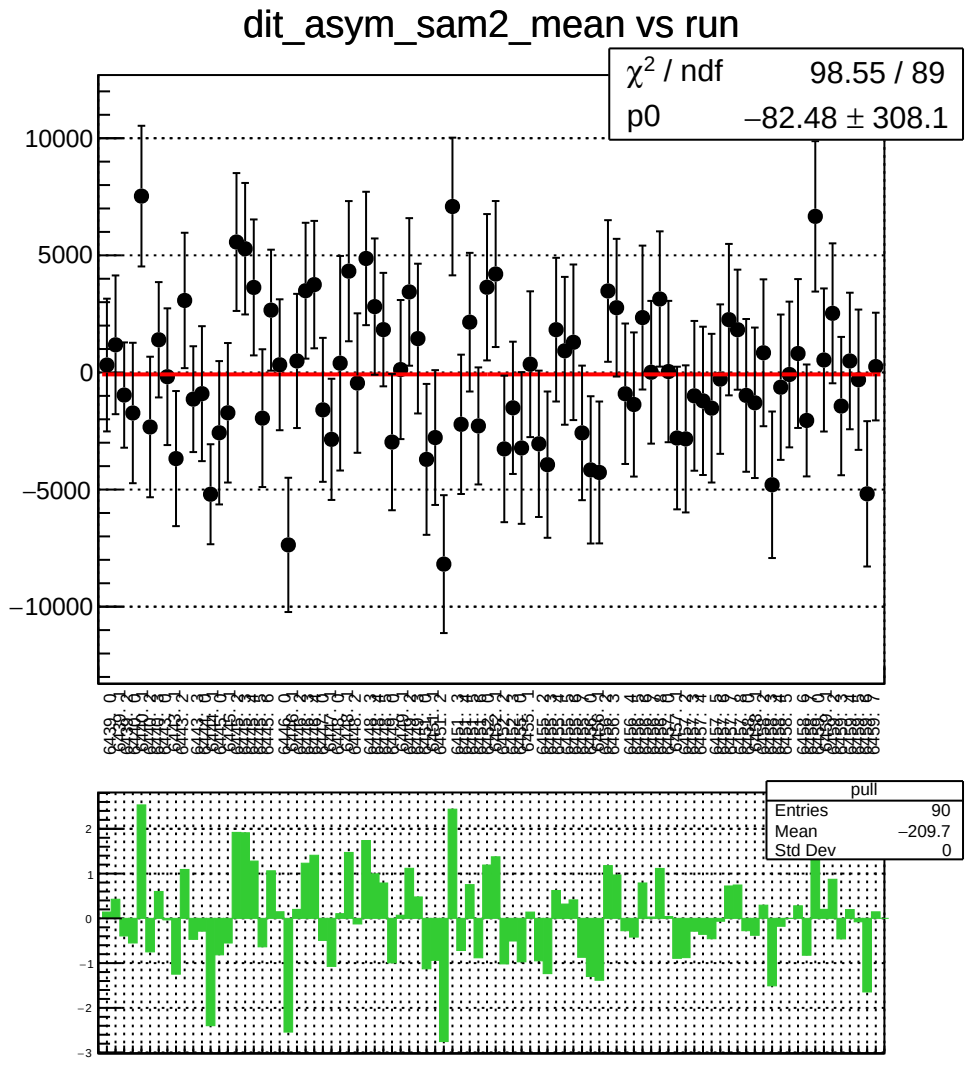
0
2
4
6
8

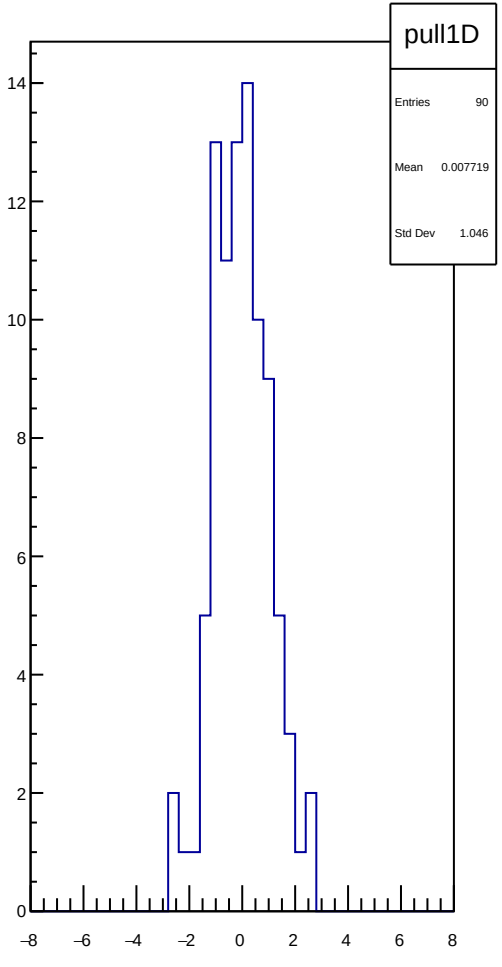

eigen_cor_asym_sam2_rms vs run
χ² / ndf 8447 / 89
p0 256.6 ± 0.1926
360
340
320
300
280
260
240

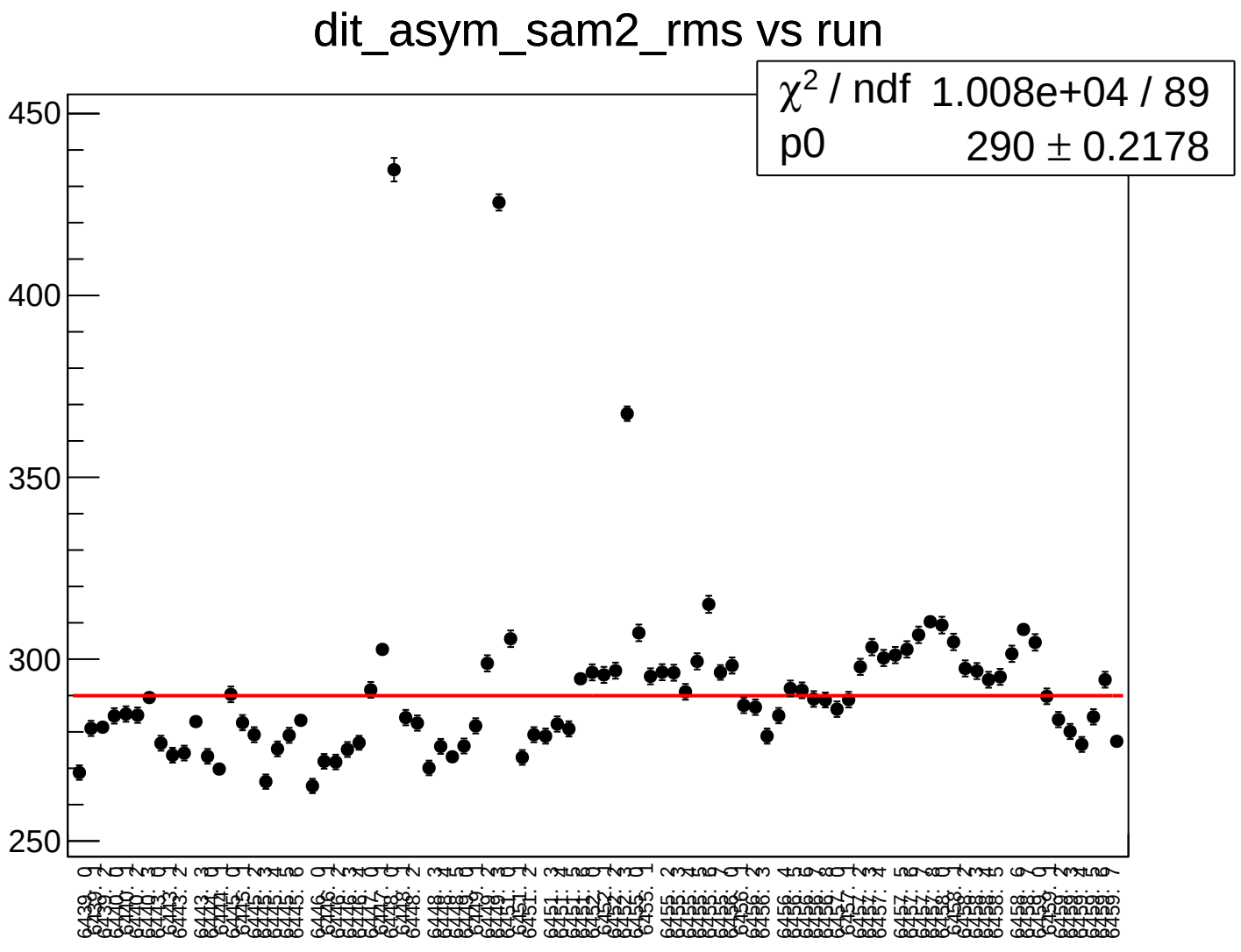

asym_sam2_eigen_cor_correction_mean vs run
χ² / ndf 72.5 / 89
p0 −5984 ± 2344
pull
Entries 90
Mean 23.14
Std Dev 69.25

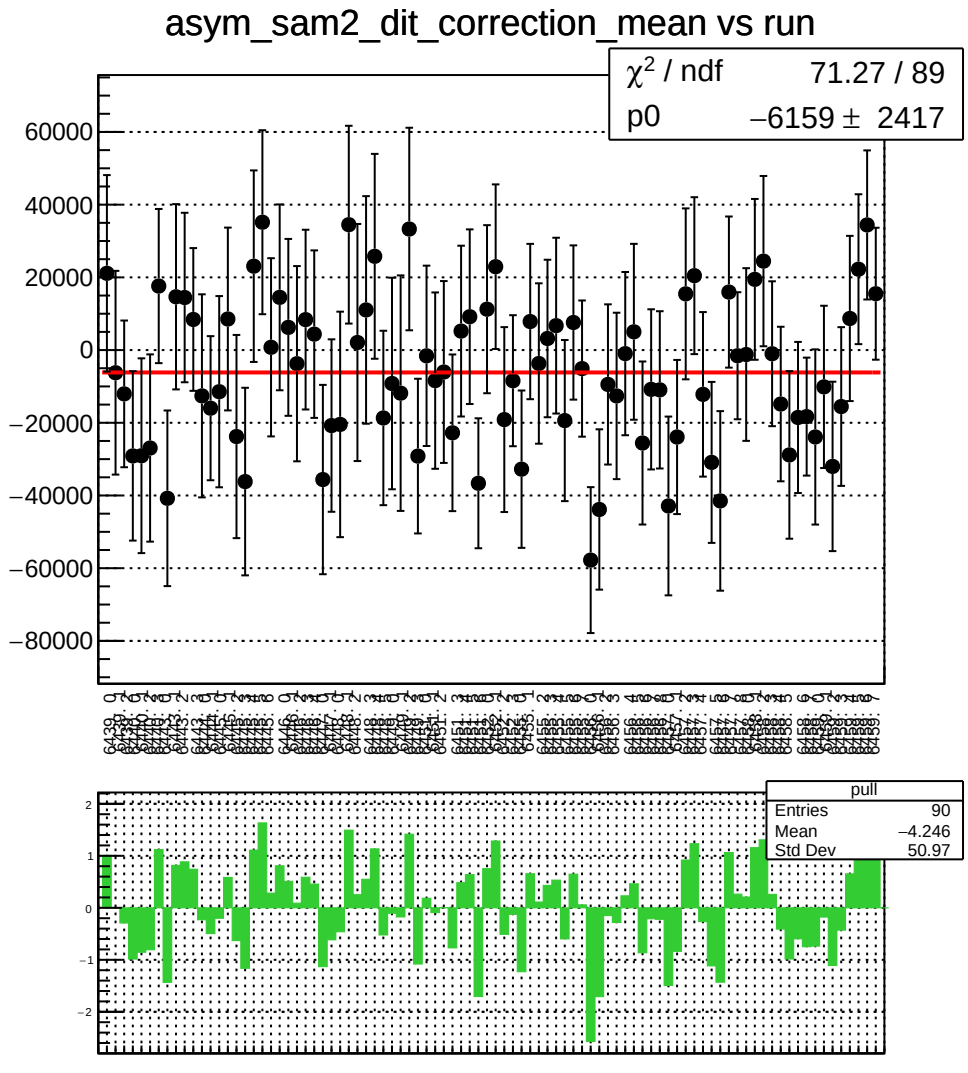

pull1D
Entries 90
Mean 0.01116
Std Dev 0.8974

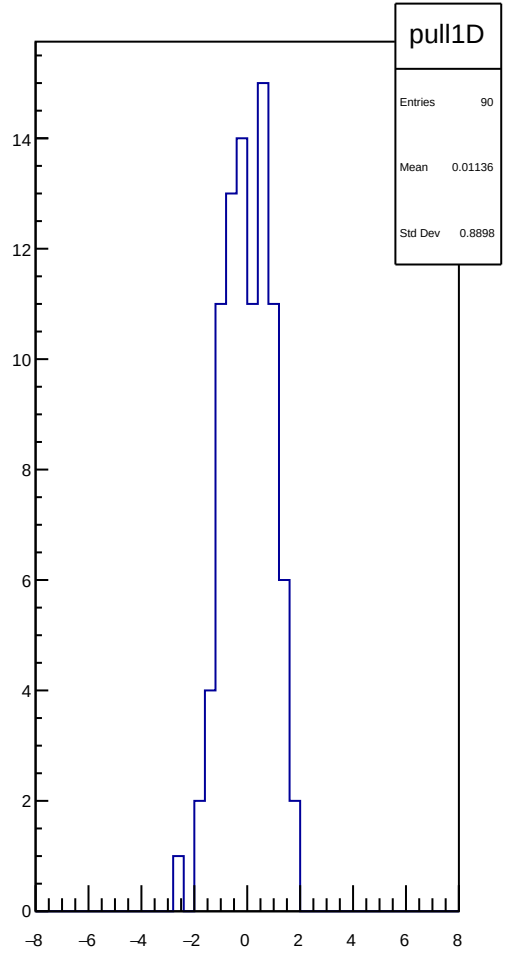

asym_sam2_eigen_cor_correction_rms vs run
χ² / ndf 2.628e+04 / 89
p0 2196 ± 1.658
3200
3000
2800
2600
2400
2200
2000
1800

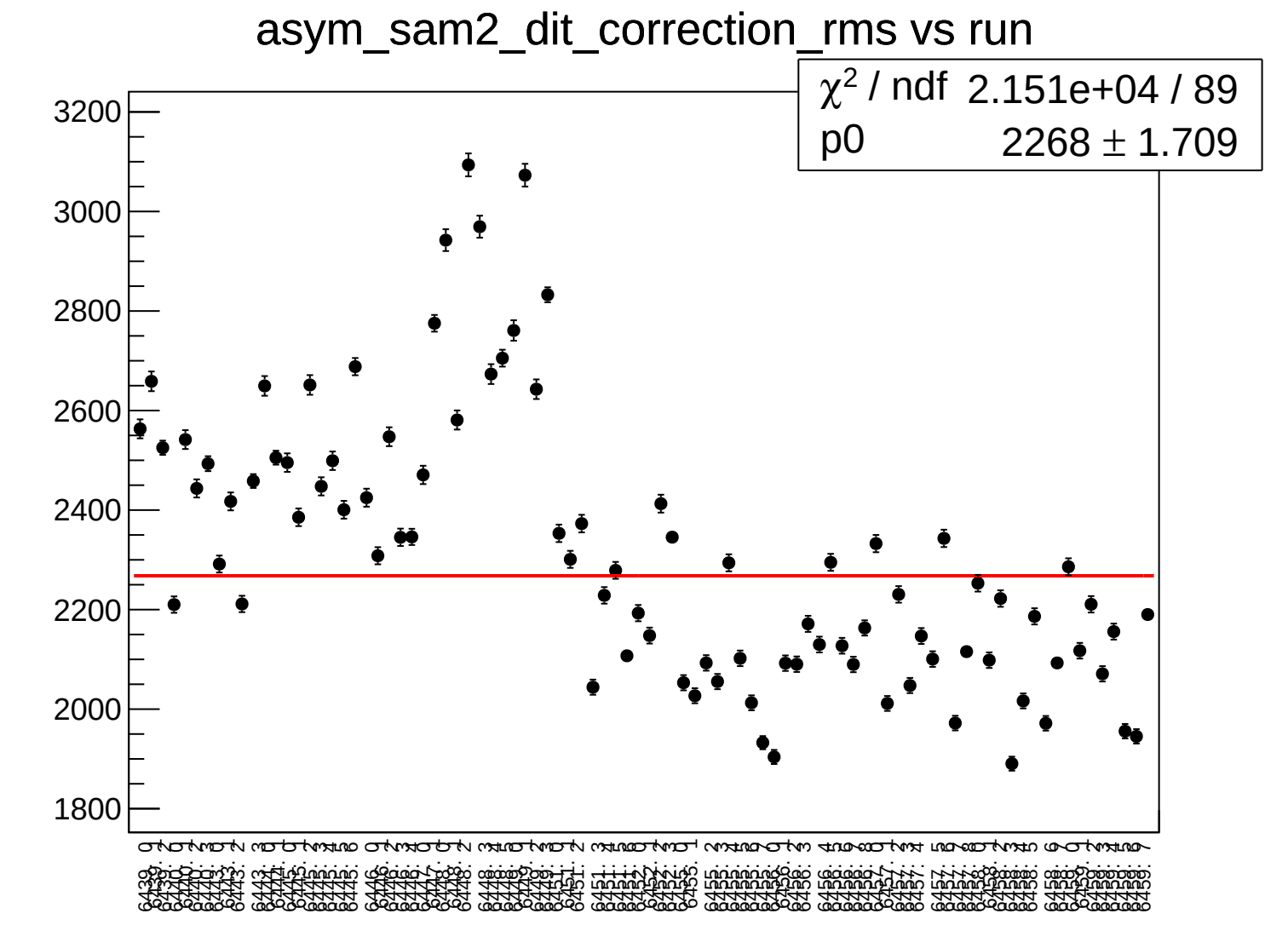

dit_asym_sam2_mean vs run
χ² / ndf 98.55 / 89
p0 −82.48 ± 308.1
10000
5000
0
−5000
−10000
pull
Entries 90
Mean −209.7
Std Dev 0
2
1
0
−1
−2
−3

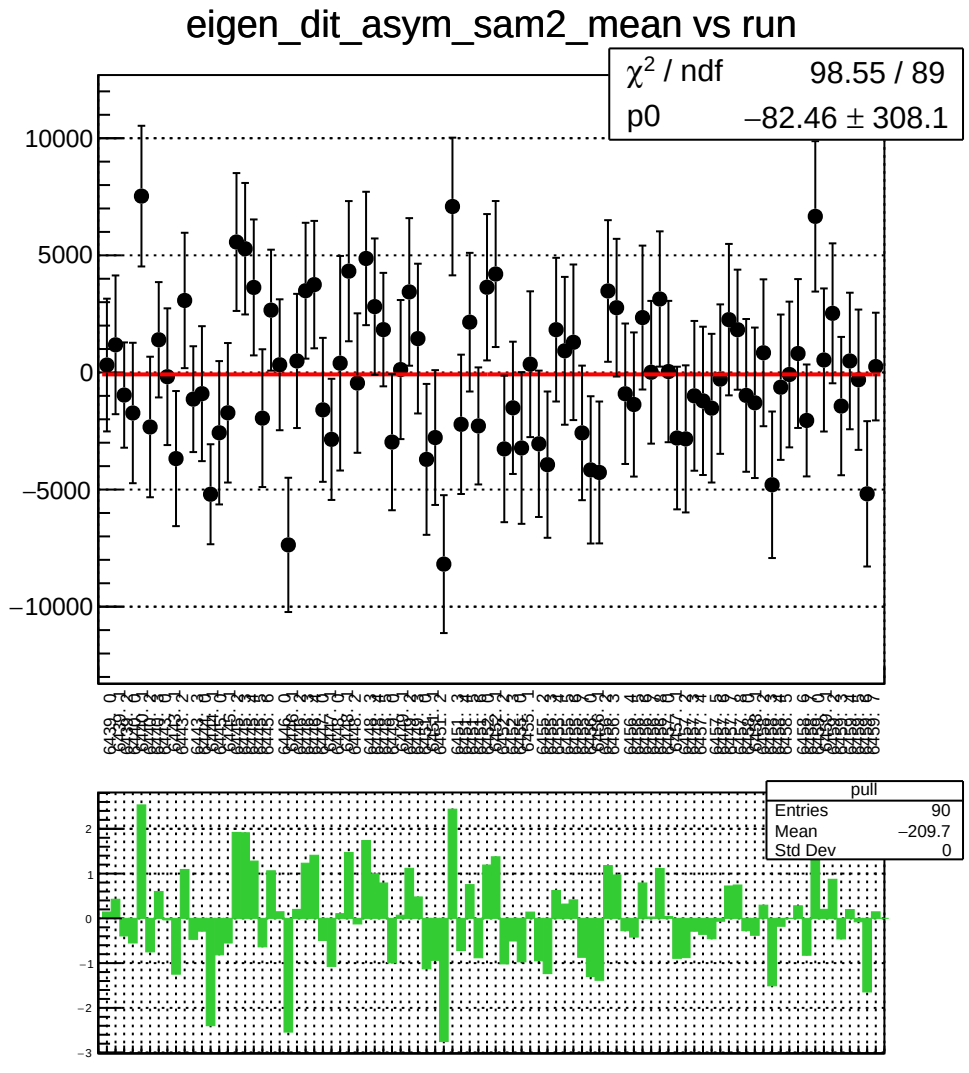

pull1D
Entries 90
Mean 0.007719
Std Dev 1.046
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

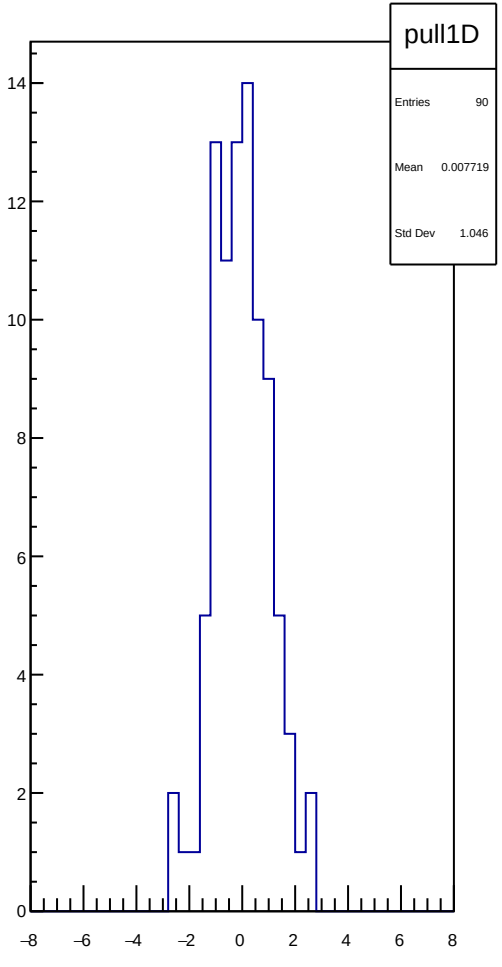

dit_asym_sam2_rms vs run
χ^2 / ndf 1.008e+04 / 89
p0 290 ± 0.2178
450
400
350
300
250

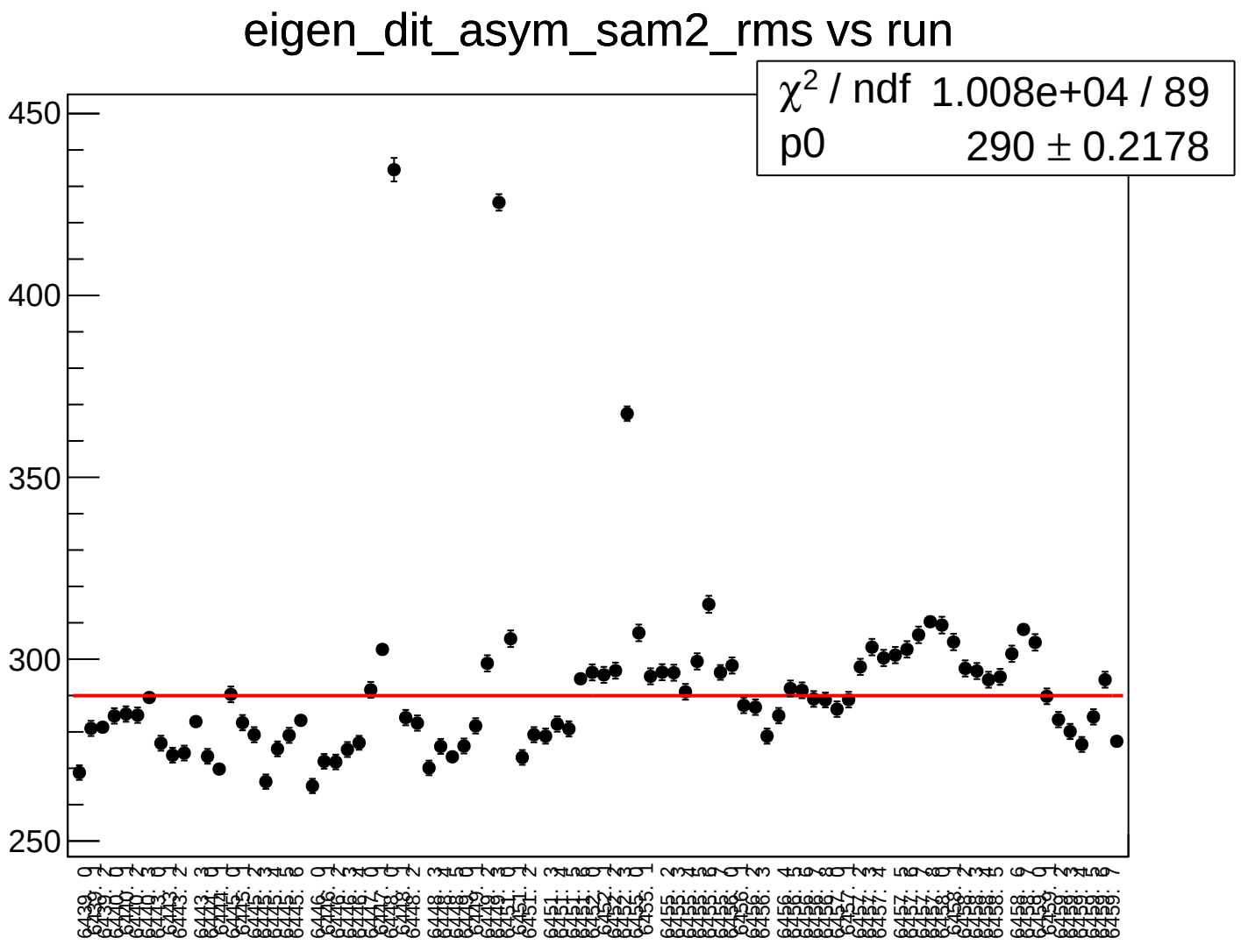

asym_sam2_dit_correction_mean vs run
χ² / ndf 71.27 / 89
p0 −6159 ± 2417
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 90
Mean −4.246
Std Dev 50.97
2
1
0
−1
−2

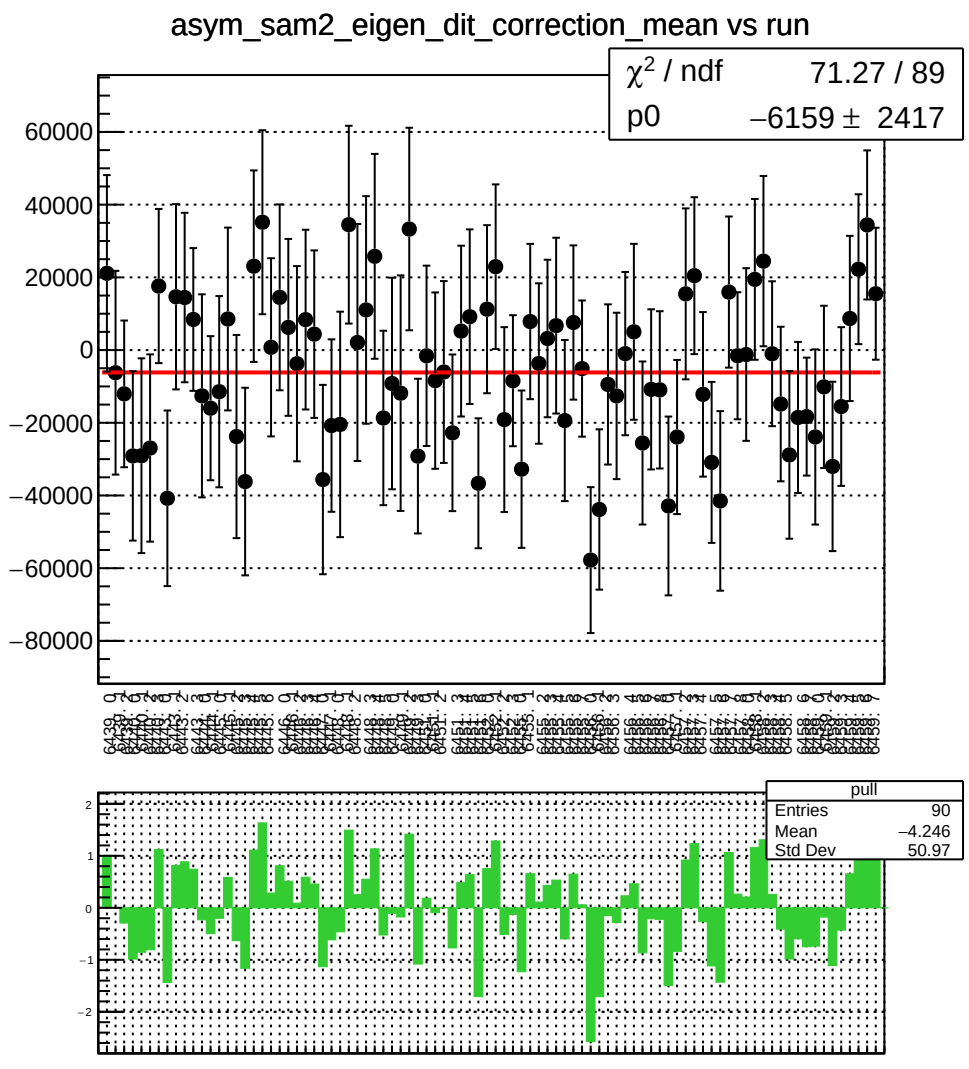

pull1D
Entries 90
Mean 0.01136
Std Dev 0.8898
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

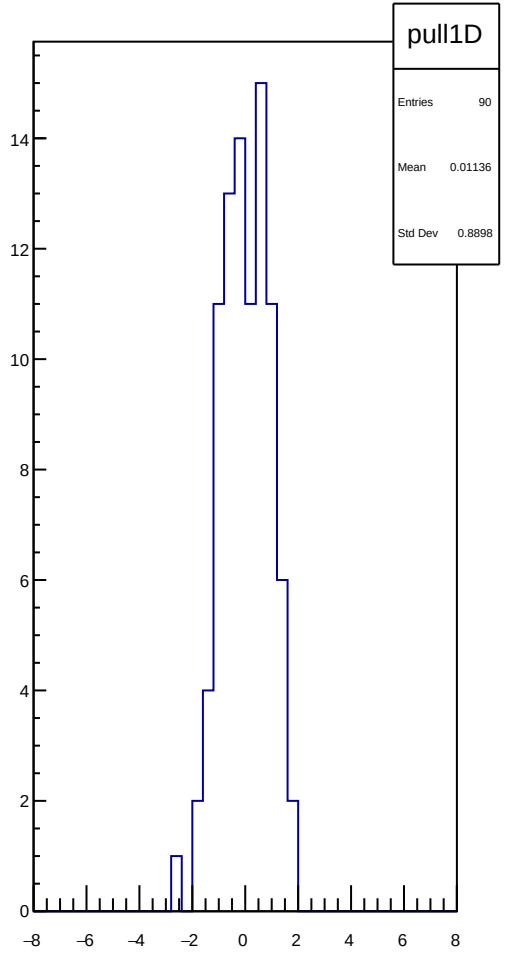

asym_sam2_dit_correction_rms vs run
χ² / ndf 2.151e+04 / 89
p0 2268 ± 1.709
3200
3000
2800
2600
2400
2200
2000
1800

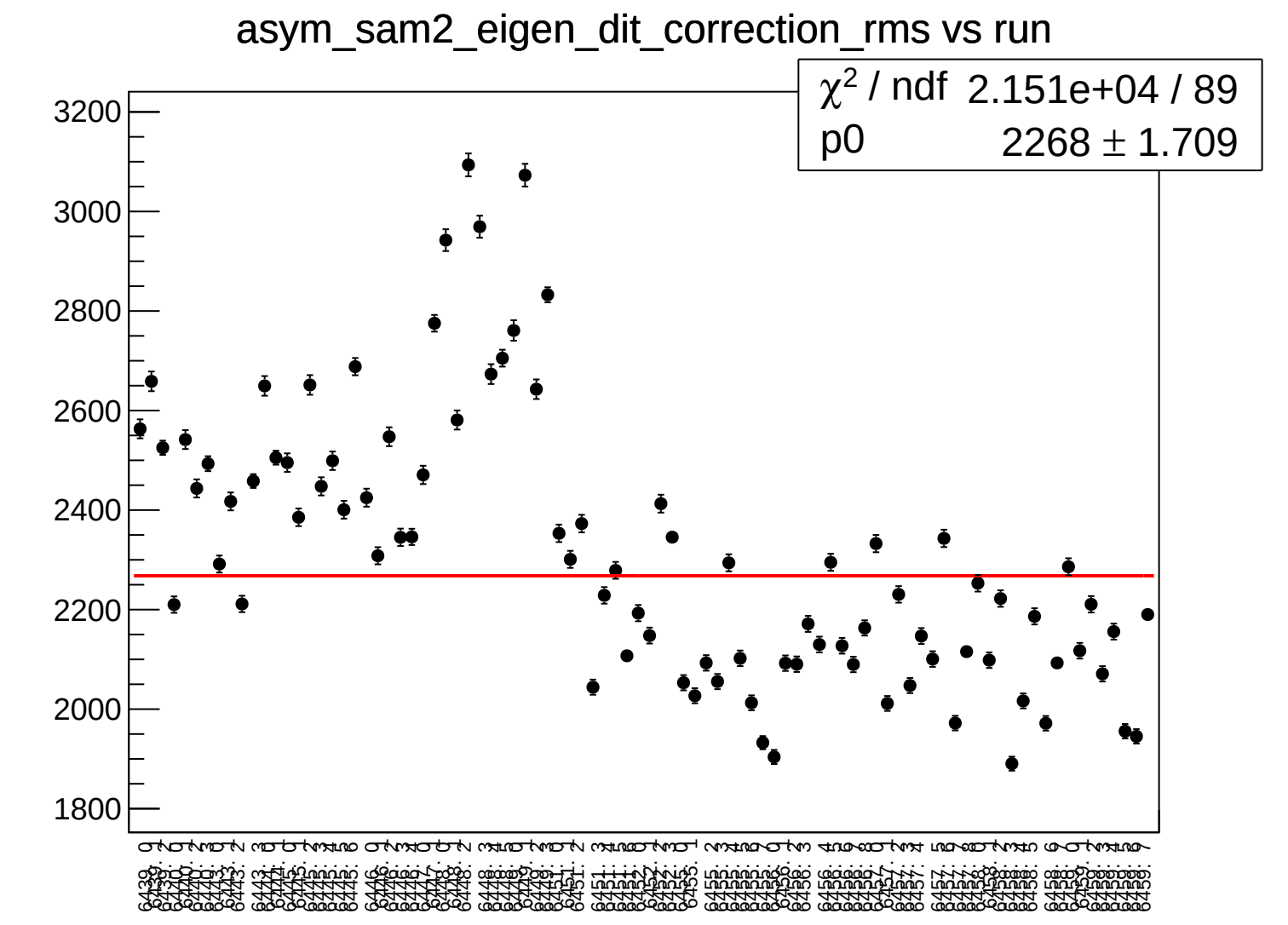

eigen_dit_asym_sam2_mean vs run
χ² / ndf 98.55 / 89
p0 −82.46 ± 308.1
10000
5000
0
−5000
−10000
pull
Entries 90
Mean −209.7
Std Dev 0
2
1
0
−1
−2
−3

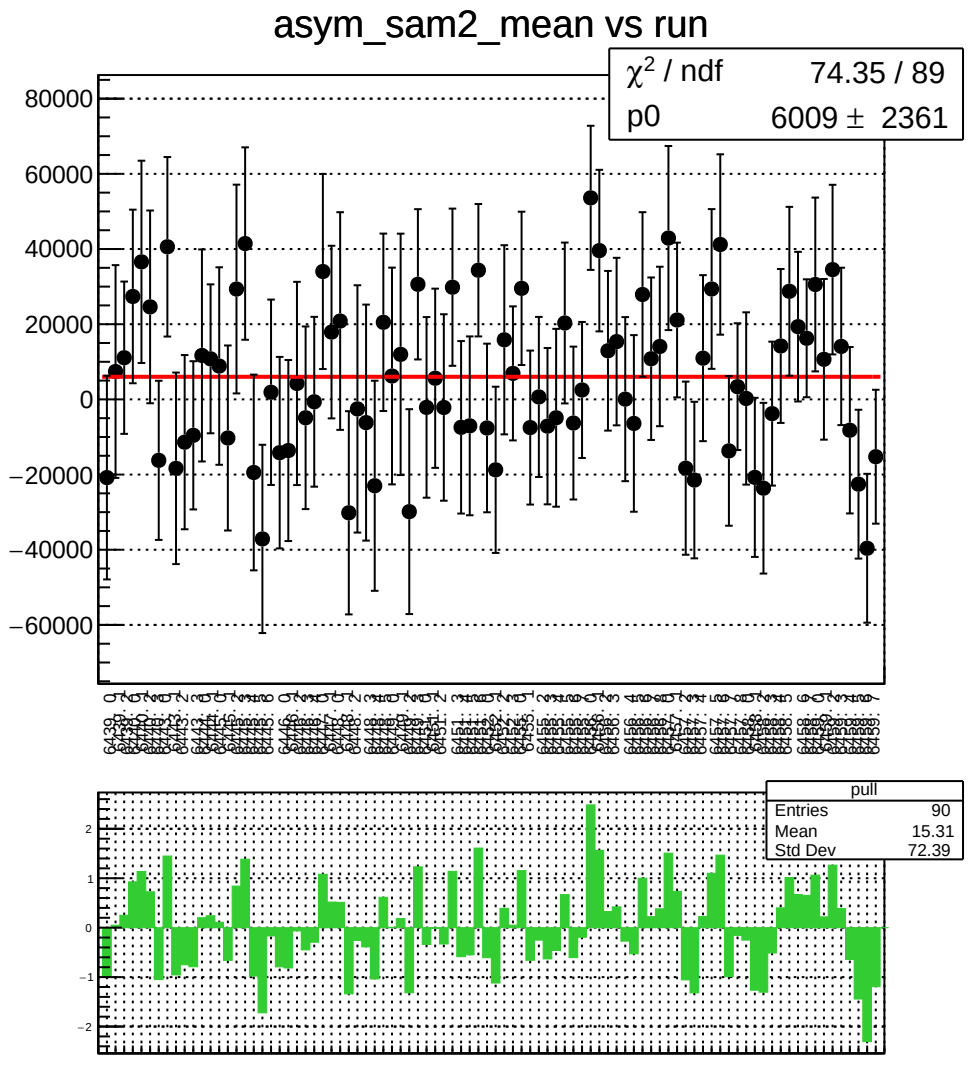

pull1D
Entries 90
Mean 0.007719
Std Dev 1.046
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

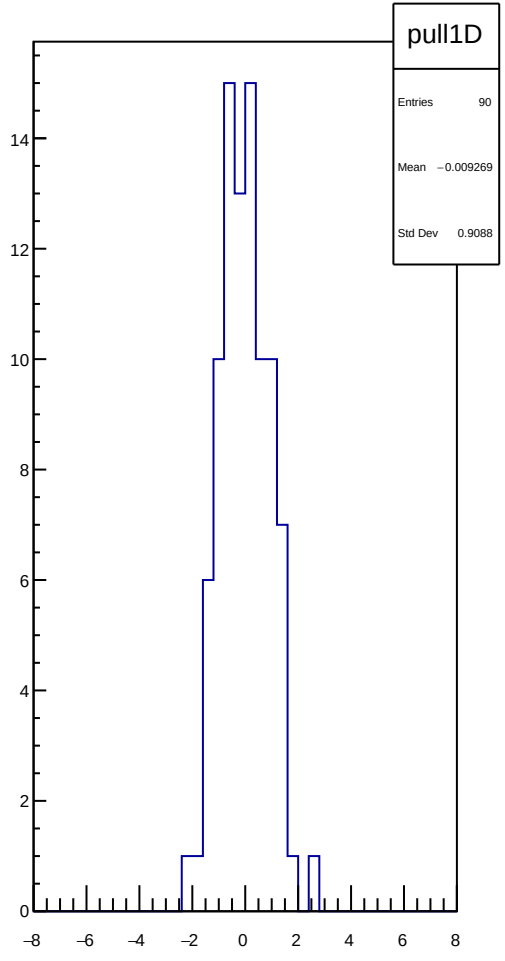

eigen_dit_asym_sam2_rms vs run
χ² / ndf 1.008e+04 / 89
p0 290 ± 0.2178
450
400
350
300
250

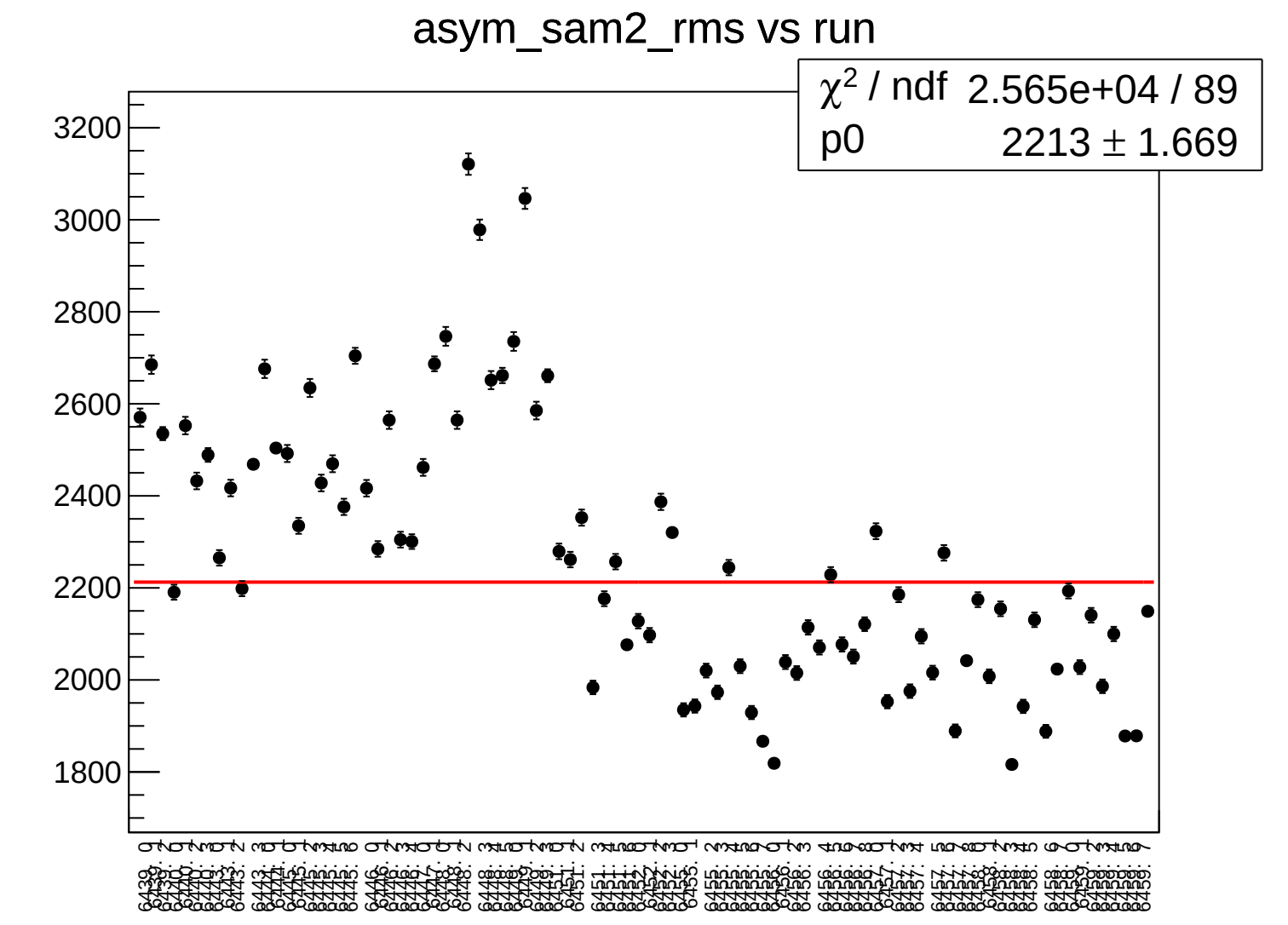

asym_sam2_eigen_dit_correction_mean vs run
χ² / ndf 71.27 / 89
p0 −6159 ± 2417
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 90
Mean −4.246
Std Dev 50.97
2
1
0
−1
−2

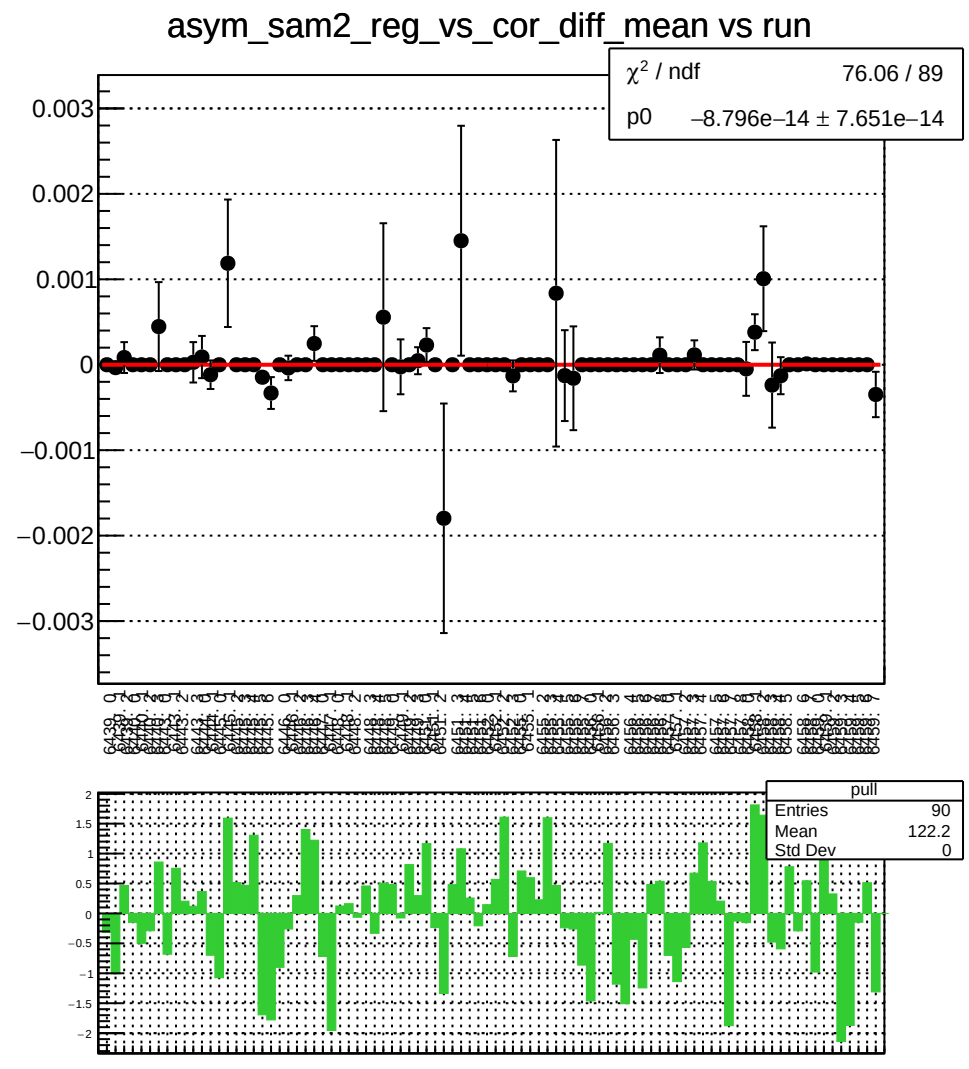

pull1D
Entries 90
Mean 0.01136
Std Dev 0.8898
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

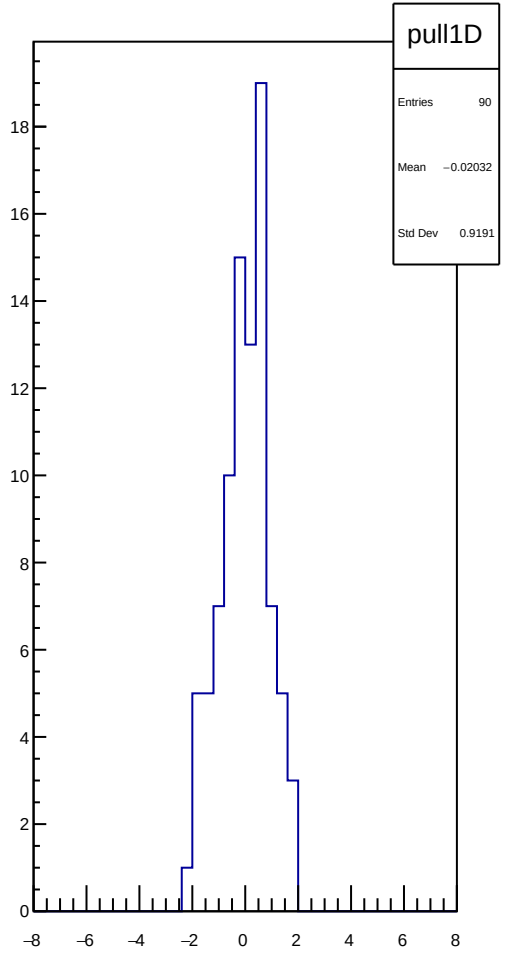

asym_sam2_eigen_dit_correction_rms vs run
χ² / ndf 2.151e+04 / 89
p0 2268 ± 1.709
3200
3000
2800
2600
2400
2200
2000
1800

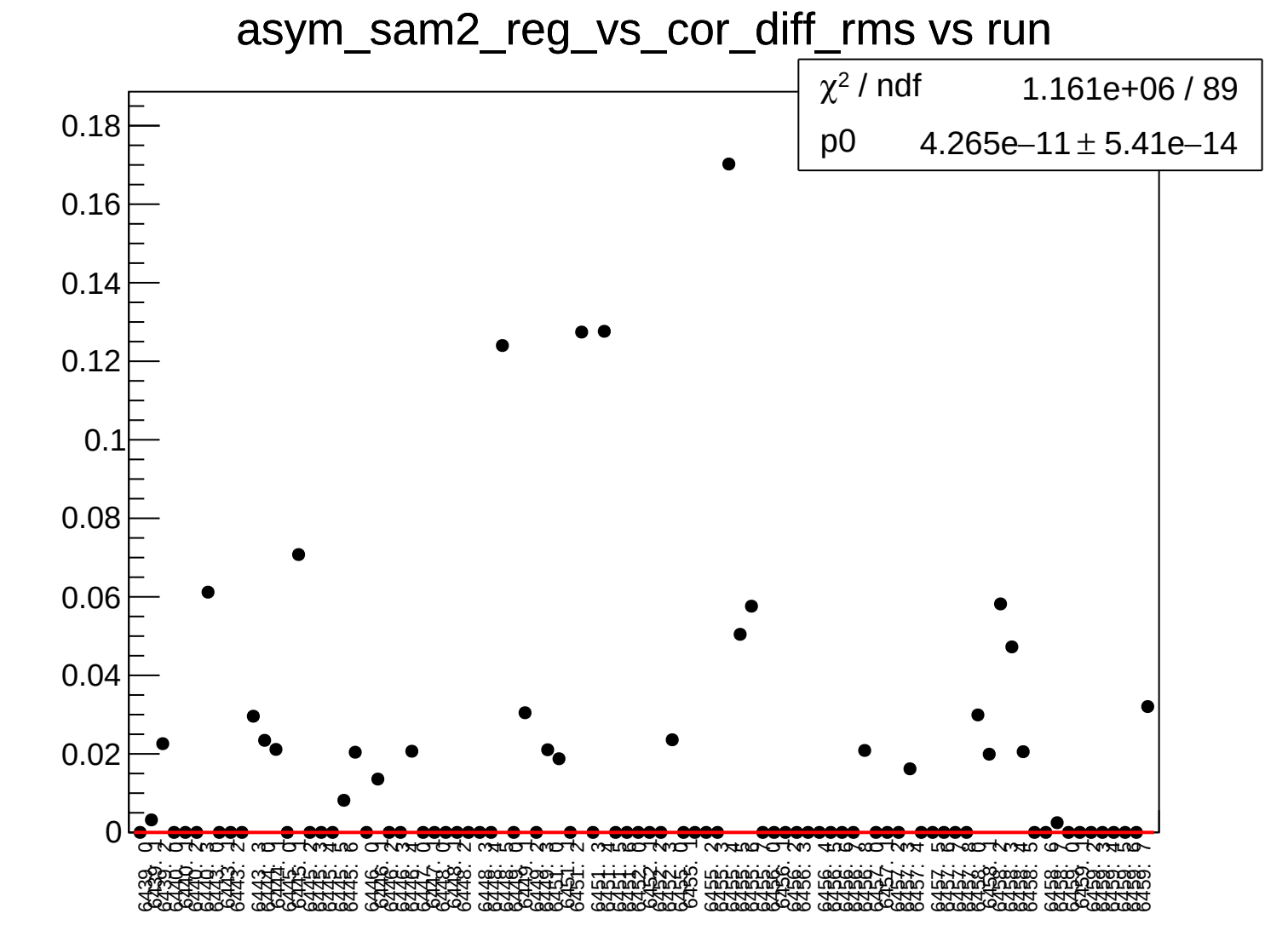

asym_sam2_mean vs run
χ² / ndf 74.35 / 89
p0 6009 ± 2361
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 15.31
Std Dev 72.39
2
1
0
−1
−2

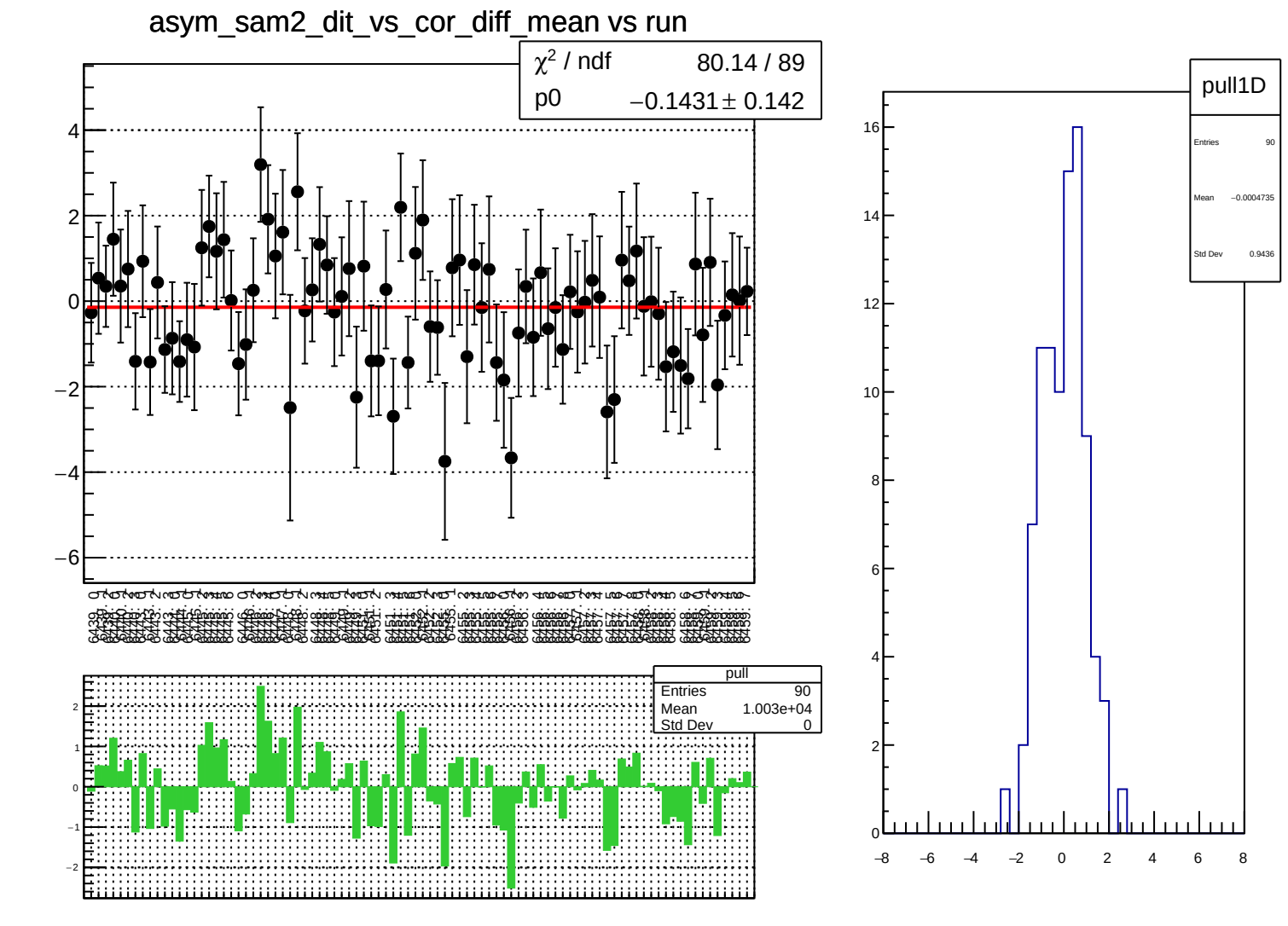

pull1D
Entries 90
Mean −0.009269
Std Dev 0.9088
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

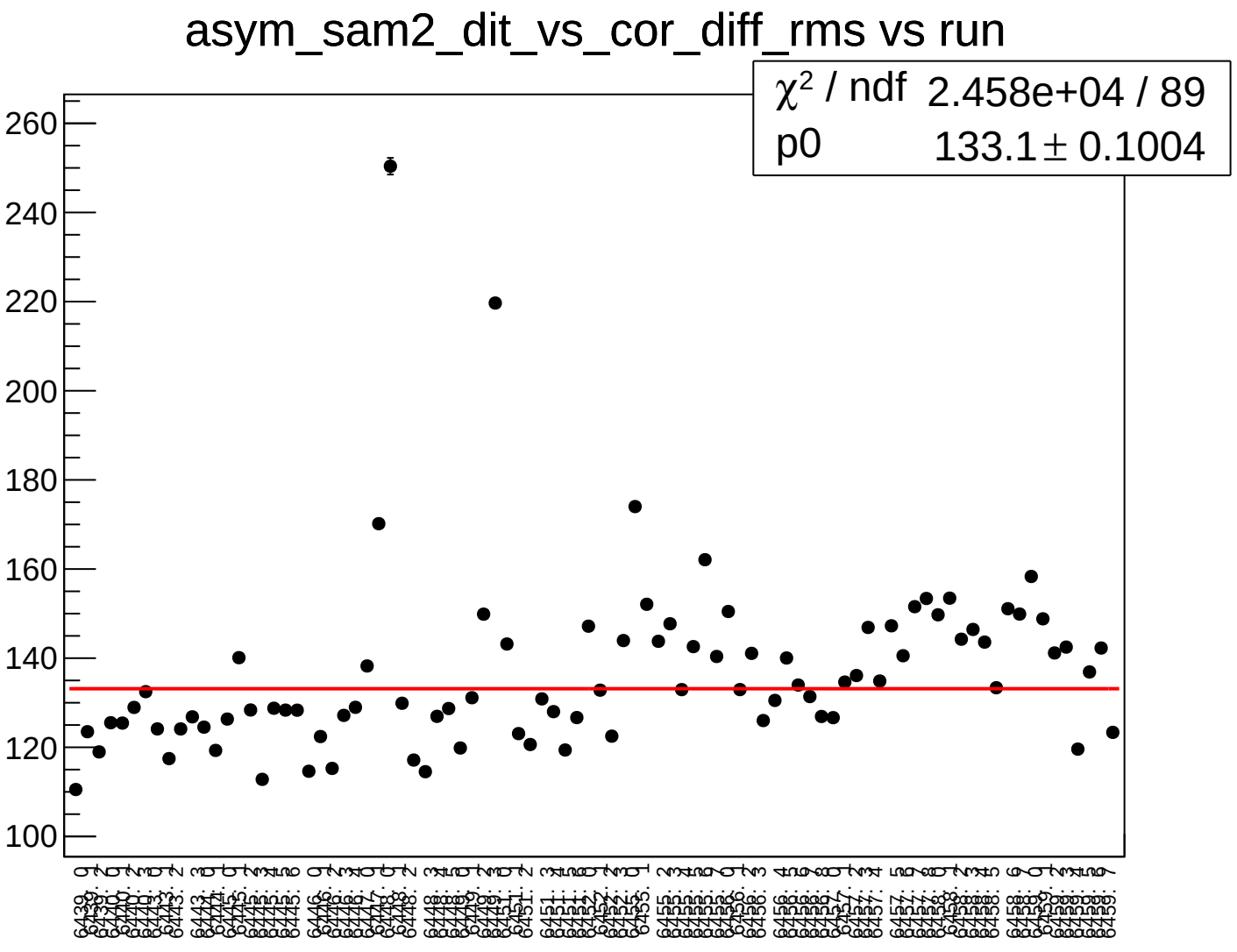

asym_sam2_rms vs run
χ² / ndf 2.565e+04 / 89
p0 2213 ± 1.669
3200
3000
2800
2600
2400
2200
2000
1800

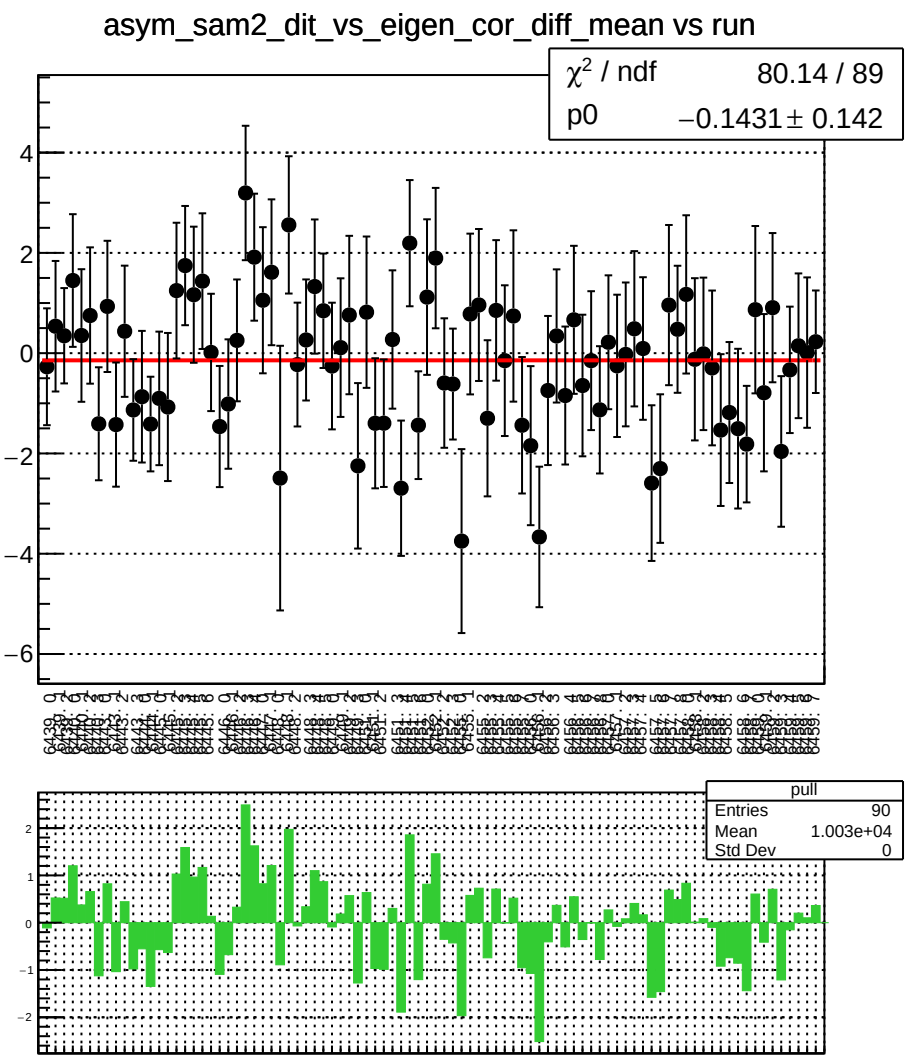

asym_sam2_reg_vs_cor_diff_mean vs run
χ² / ndf 76.06 / 89
p0 −8.796e−14 ± 7.651e−14
0.003
0.002
0.001
0
−0.001
−0.002
−0.003
pull
Entries 90
Mean 122.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

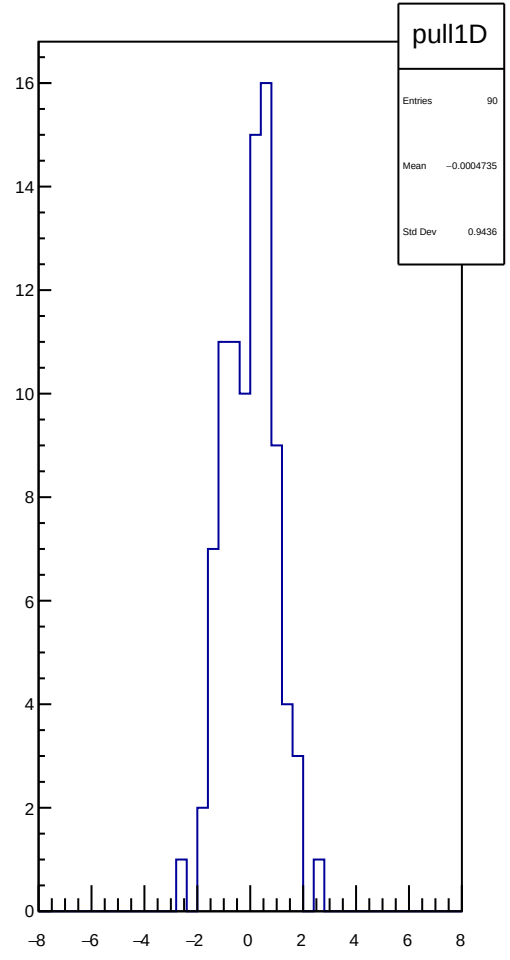

pull1D
Entries 90
Mean −0.02032
Std Dev 0.9191
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

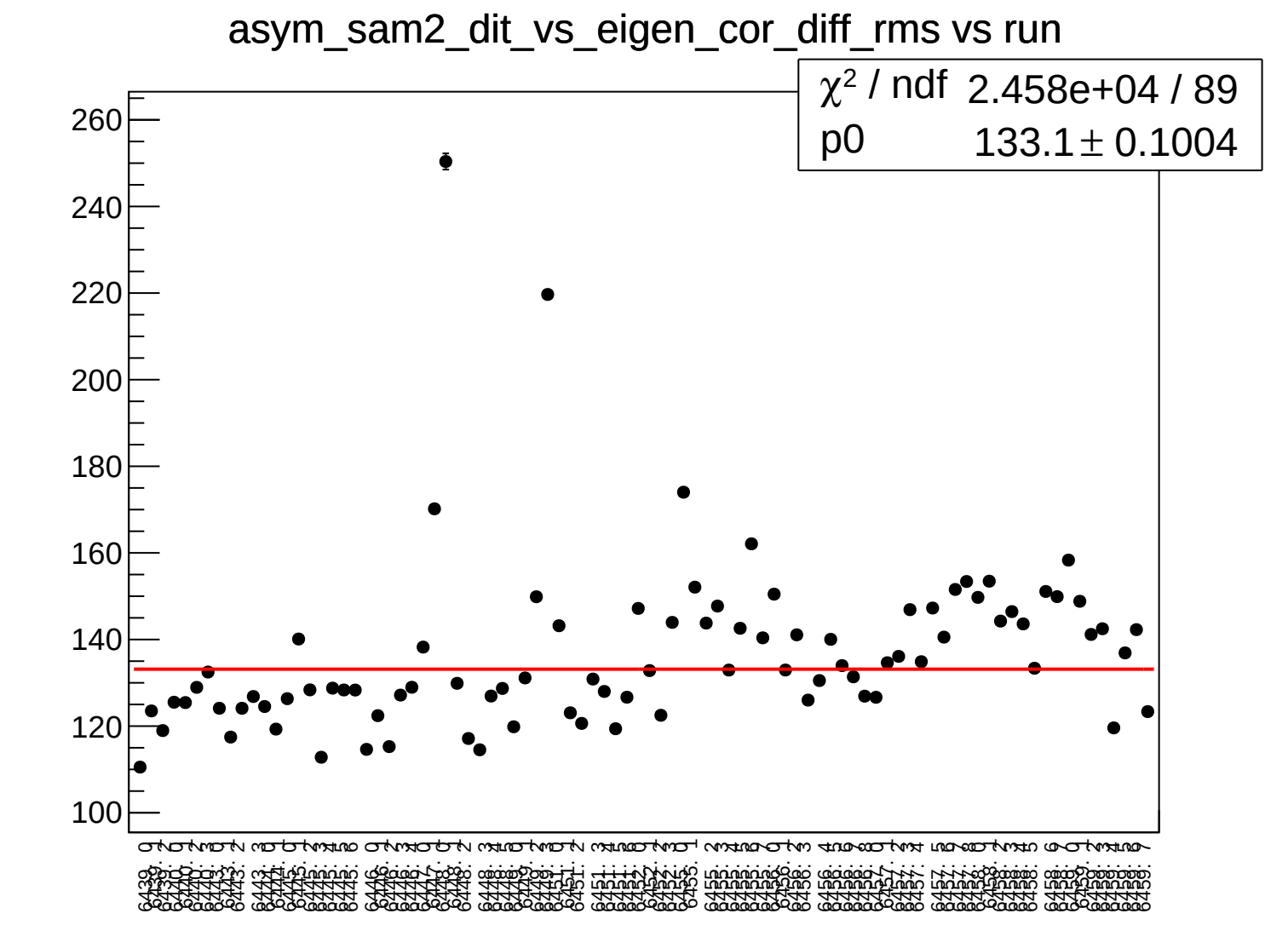

asym_sam2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.161e+06 / 89
p0 4.265e−11 ± 5.41e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

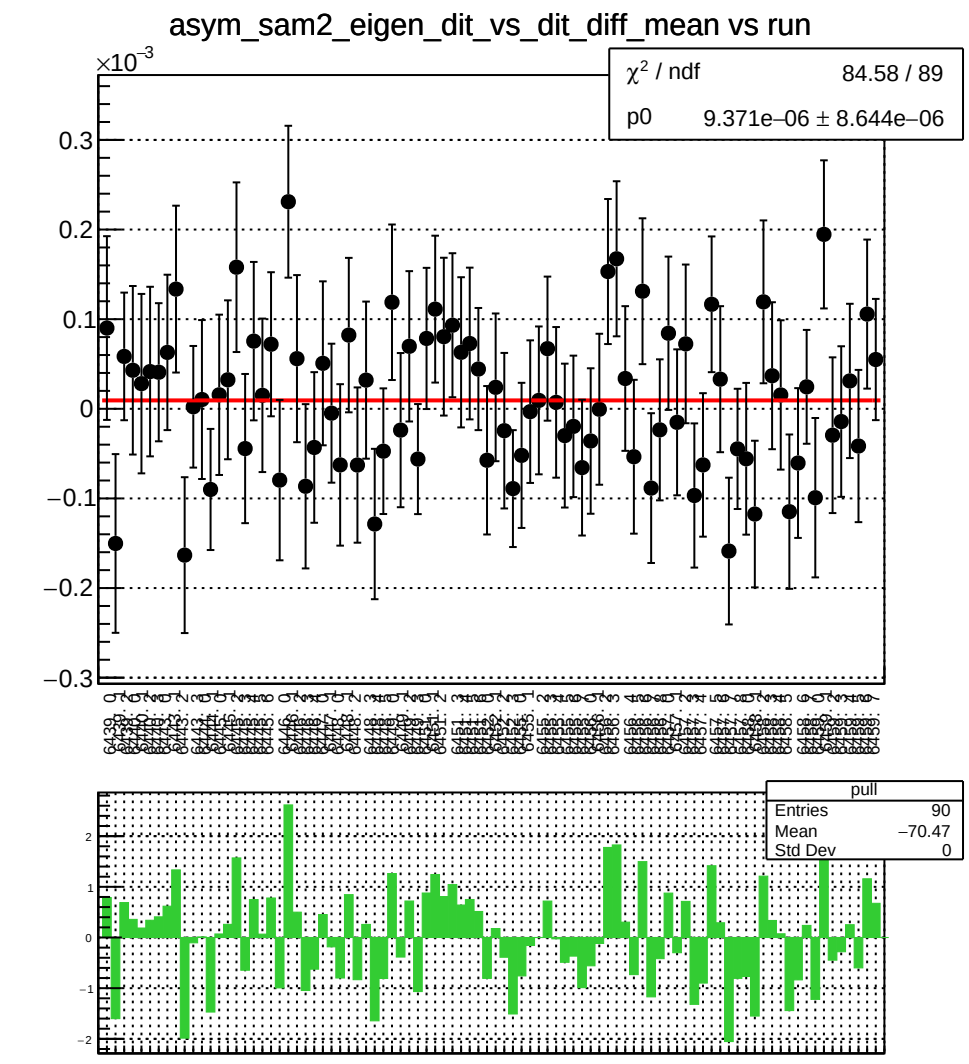

asym_sam2_dit_vs_cor_diff_mean vs run
χ² / ndf 80.14 / 89
p0 −0.1431 ± 0.142
pull
Entries 90
Mean 1.003e+04
Std Dev 0
pull1D
Entries 90
Mean −0.0004735
Std Dev 0.9436

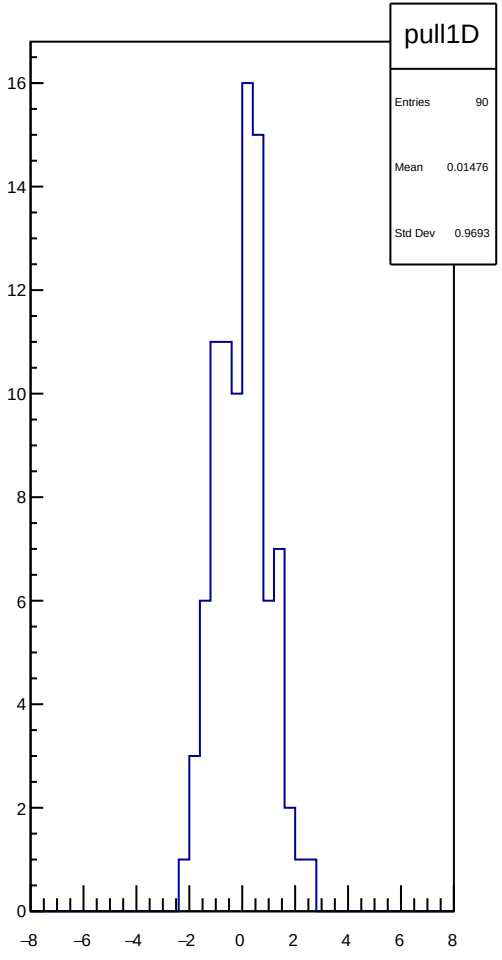

asym_sam2_dit_vs_cor_diff_rms vs run
χ² / ndf 2.458e+04 / 89
p0 133.1 ± 0.1004
260
240
220
200
180
160
140
120
100


asym_sam2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.14 / 89
p0 −0.1431 ± 0.142
pull
Entries 90
Mean 1.003e+04
Std Dev 0

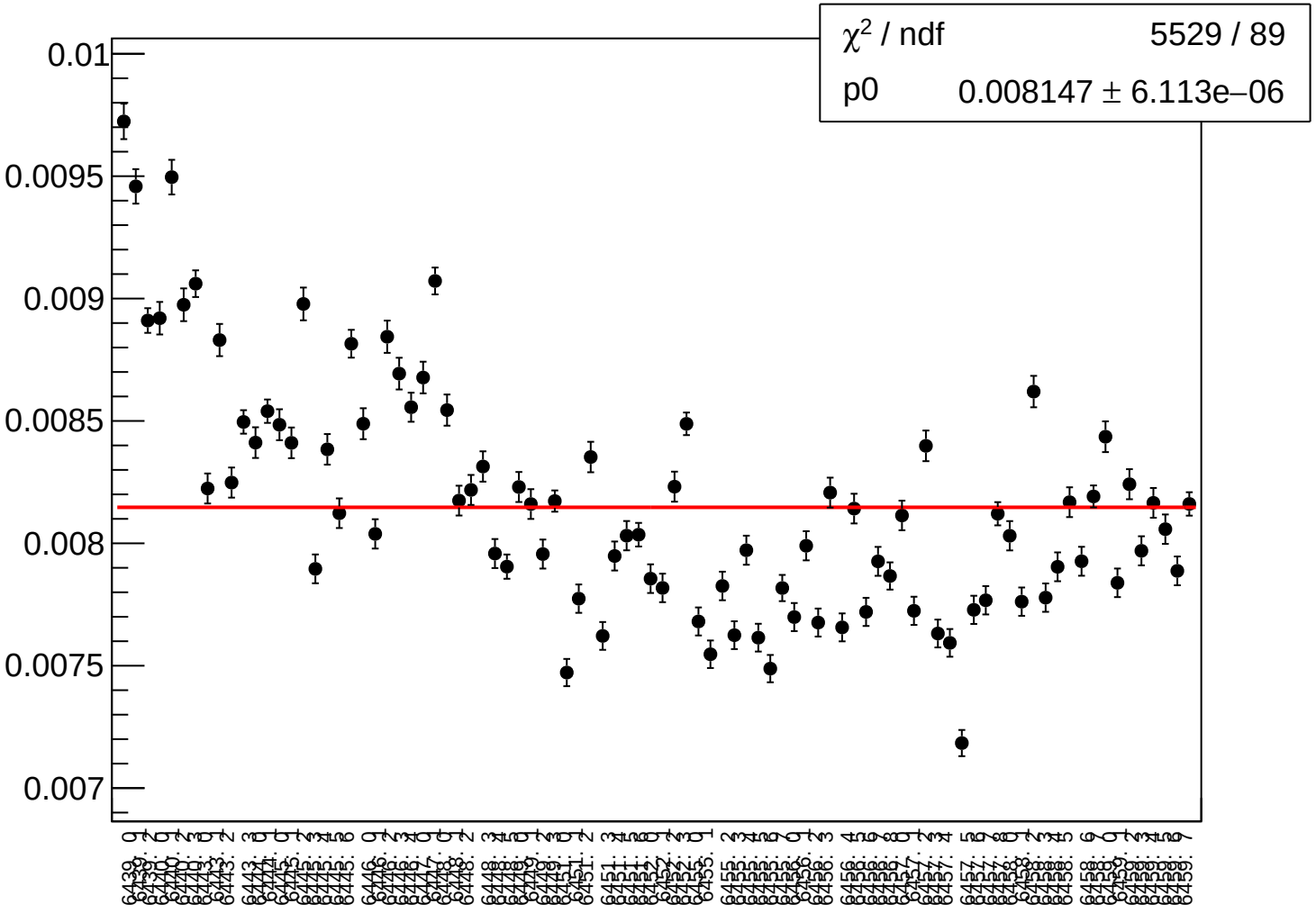

pull1D
Entries 90
Mean −0.0004735
Std Dev 0.9436

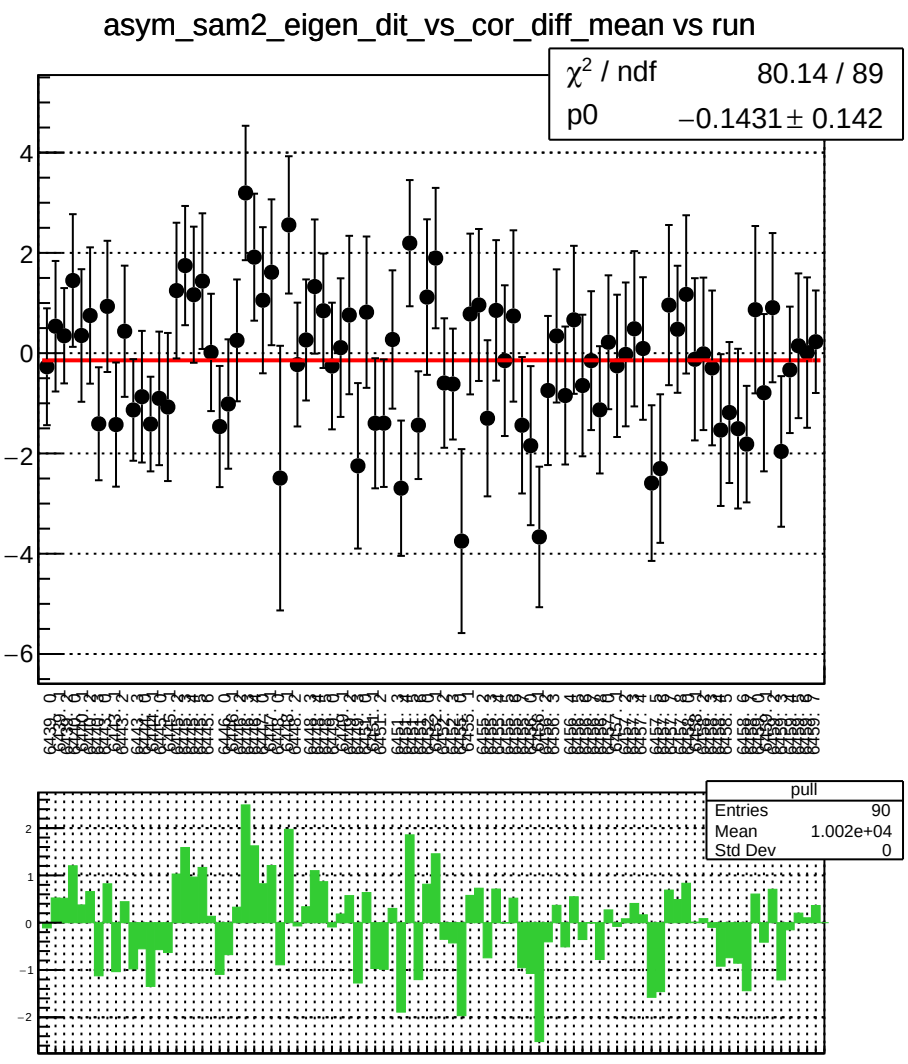

asym_sam2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.458e+04 / 89
p0 133.1 ± 0.1004
260
240
220
200
180
160
140
120
100

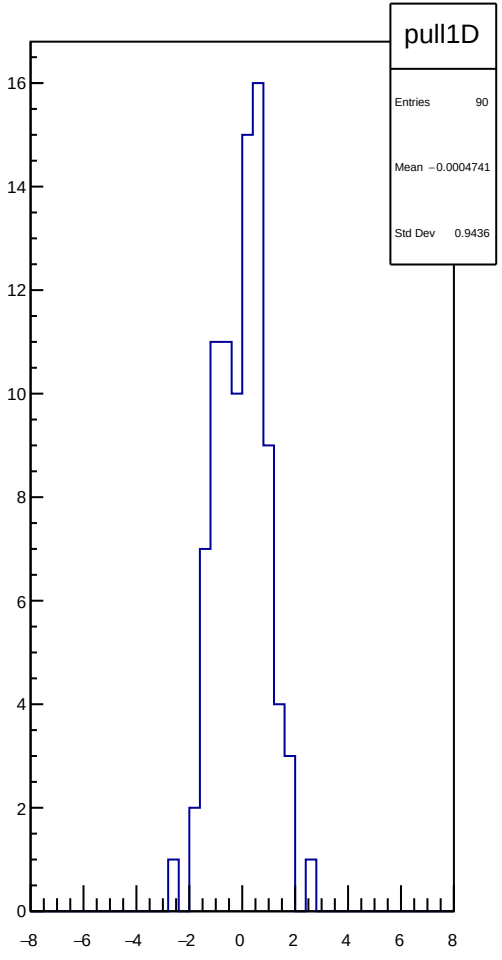

asym_sam2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 84.58 / 89
p0 9.371e−06 ± 8.644e−06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 90
Mean −70.47
Std Dev 0
2
1
0
−1
−2

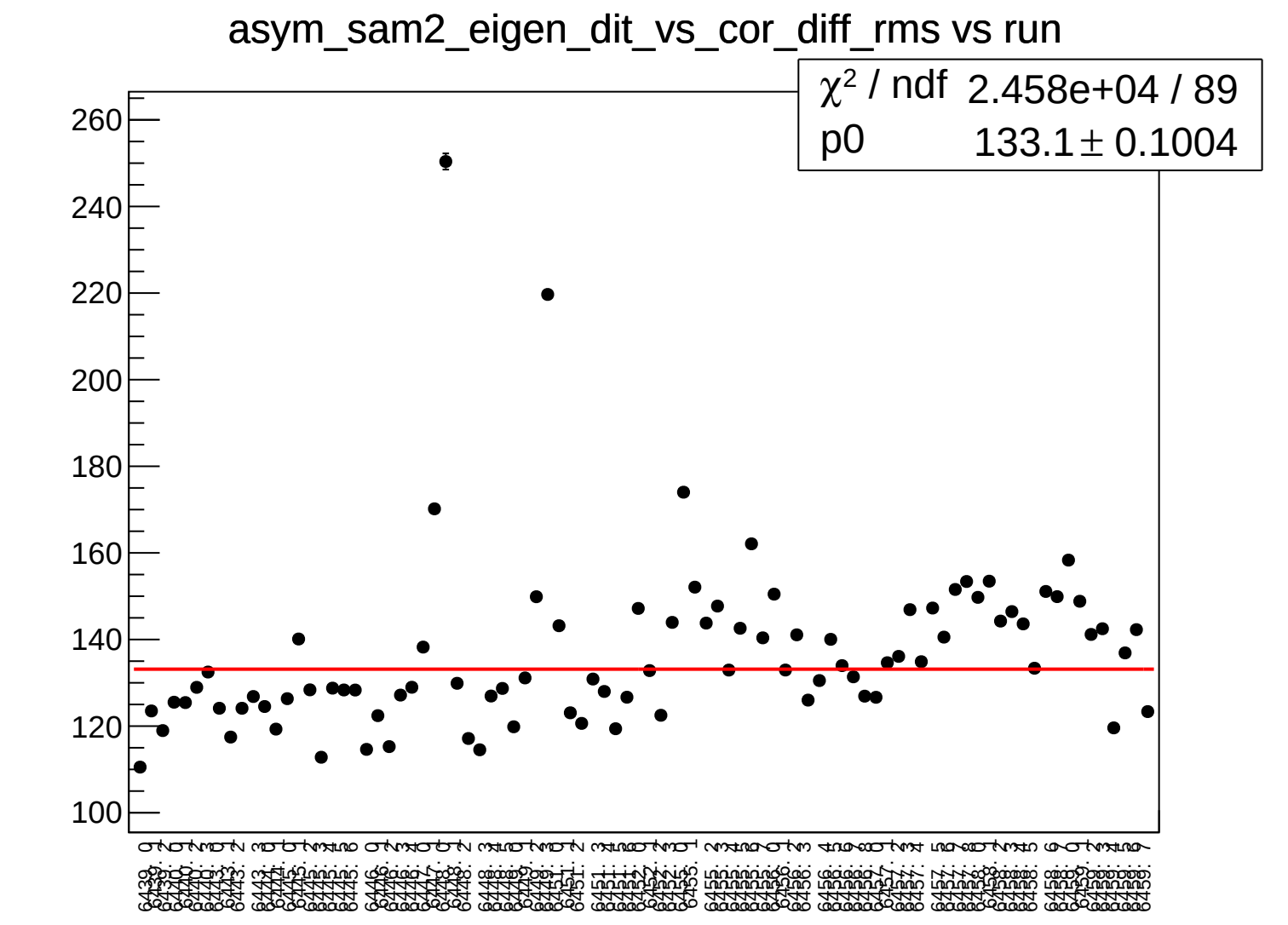

pull1D
Entries 90
Mean 0.01476
Std Dev 0.9693
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

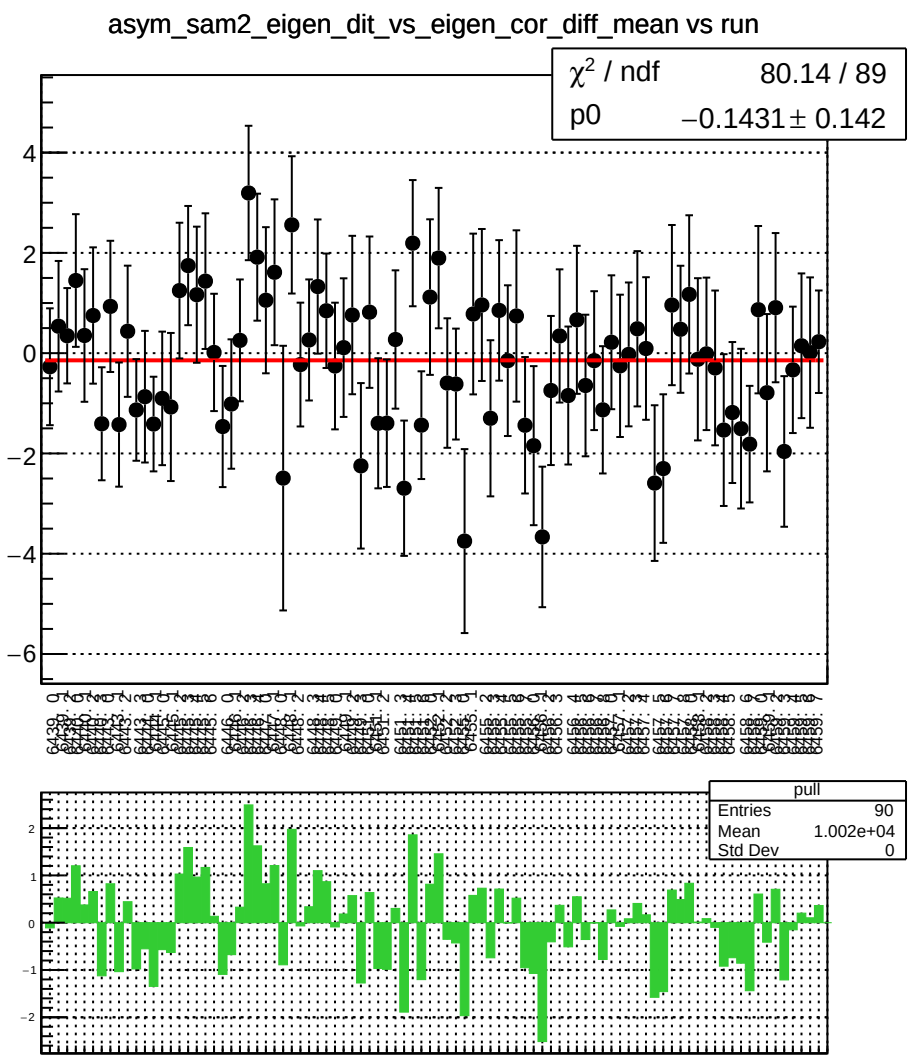
asym_sam2_eigen_dit_vs_dit_diff_rms vs run

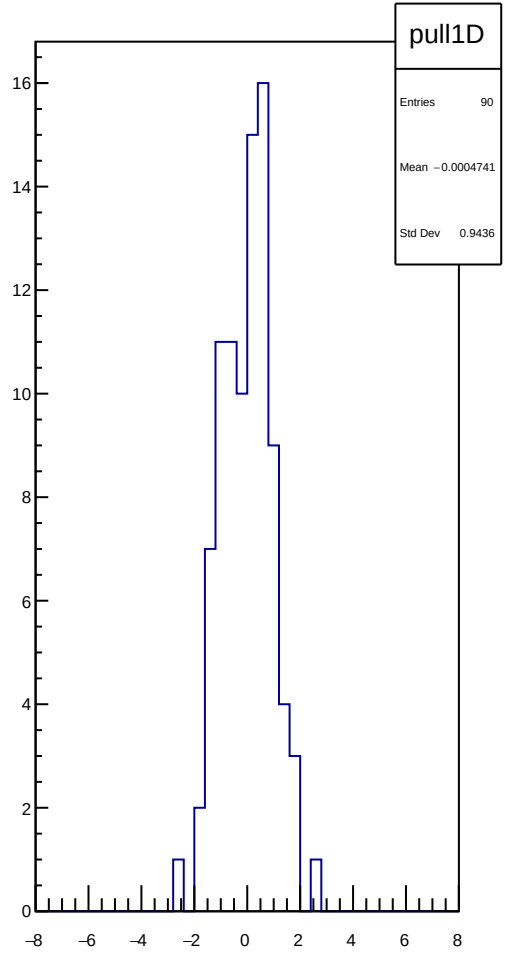


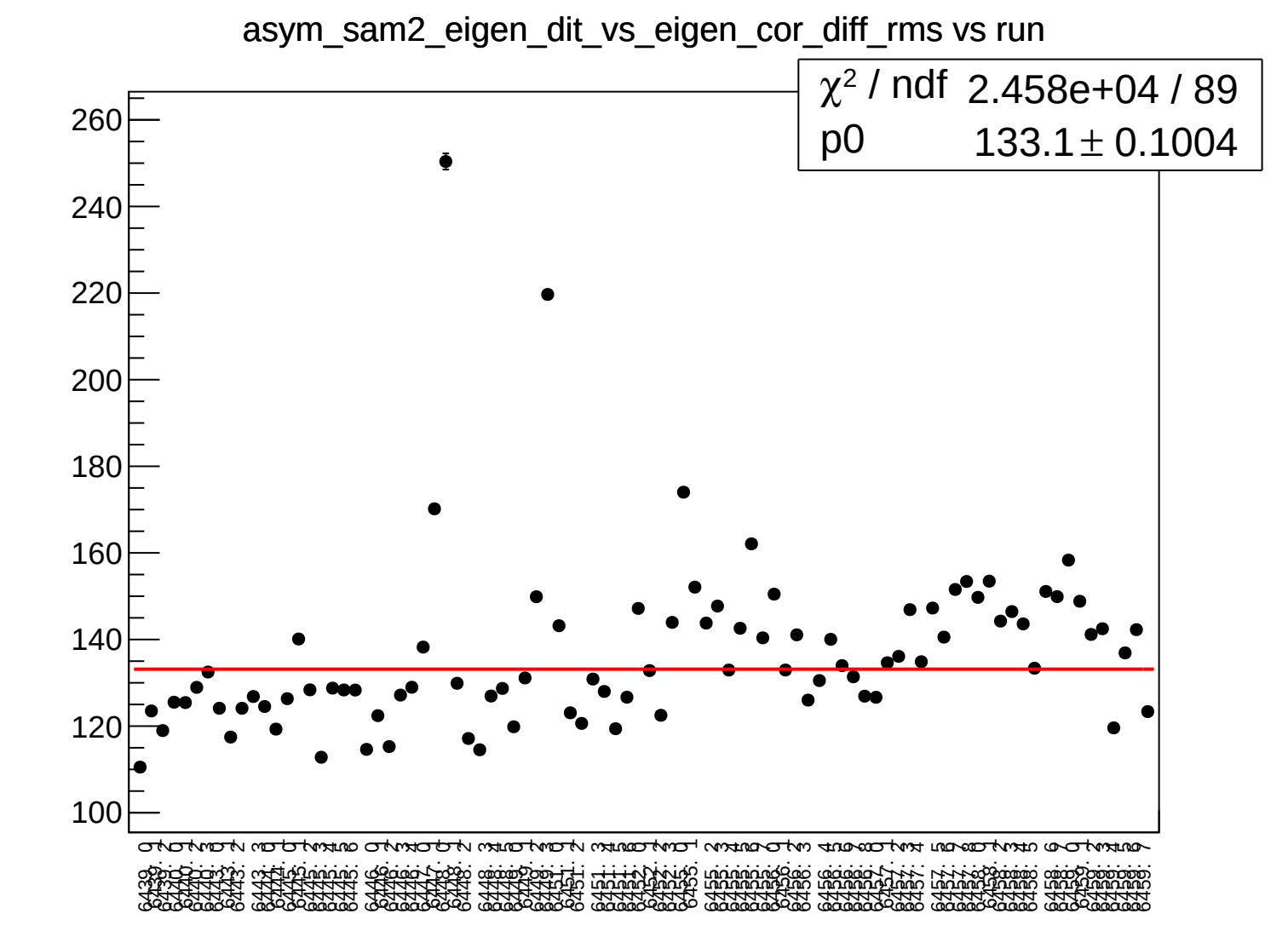

asym_sam2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.14 / 89
p0 −0.1431 ± 0.142
pull
Entries 90
Mean 1.002e+04
Std Dev 0

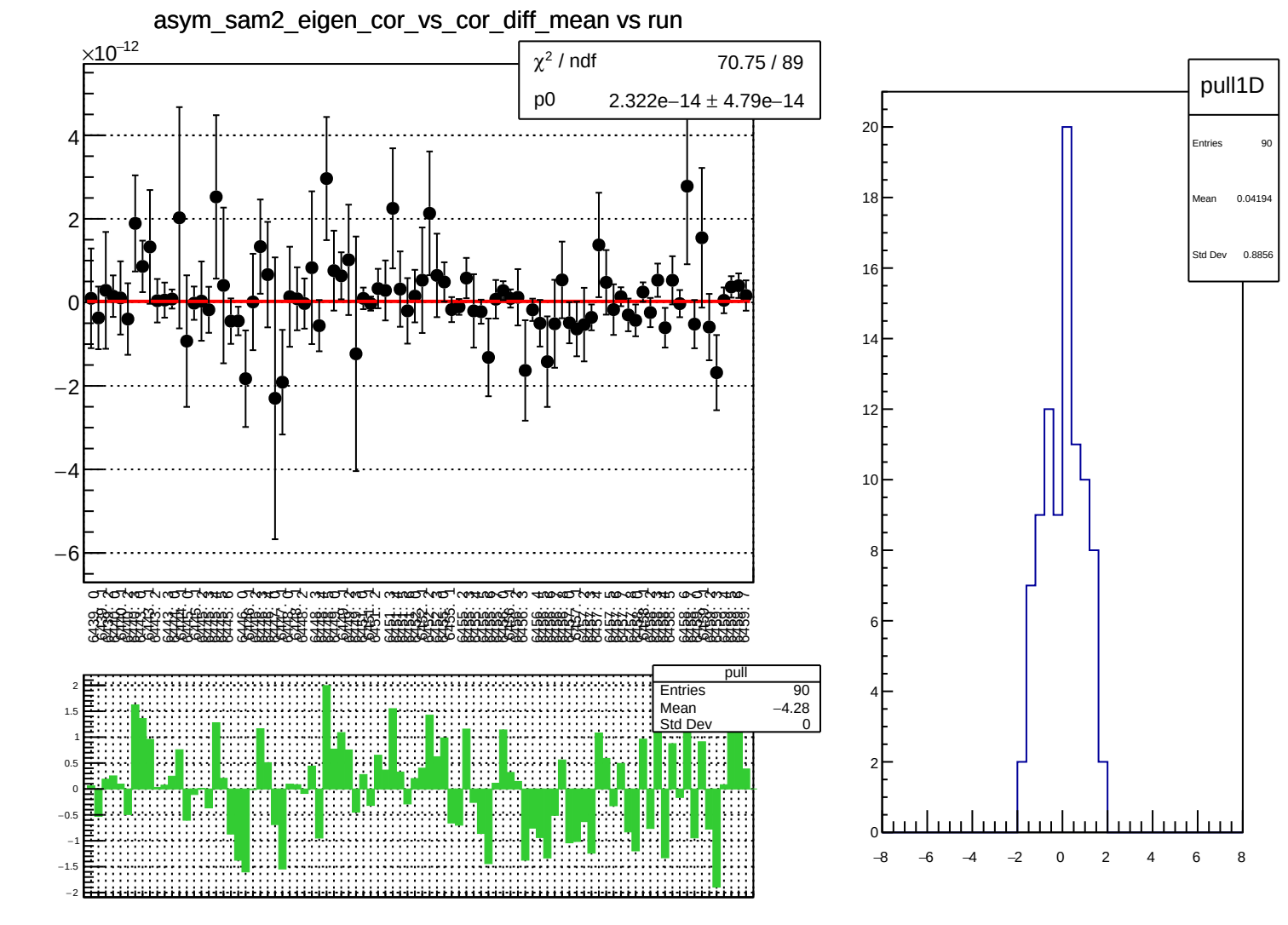

pull1D
Entries 90
Mean −0.0004741
Std Dev 0.9436

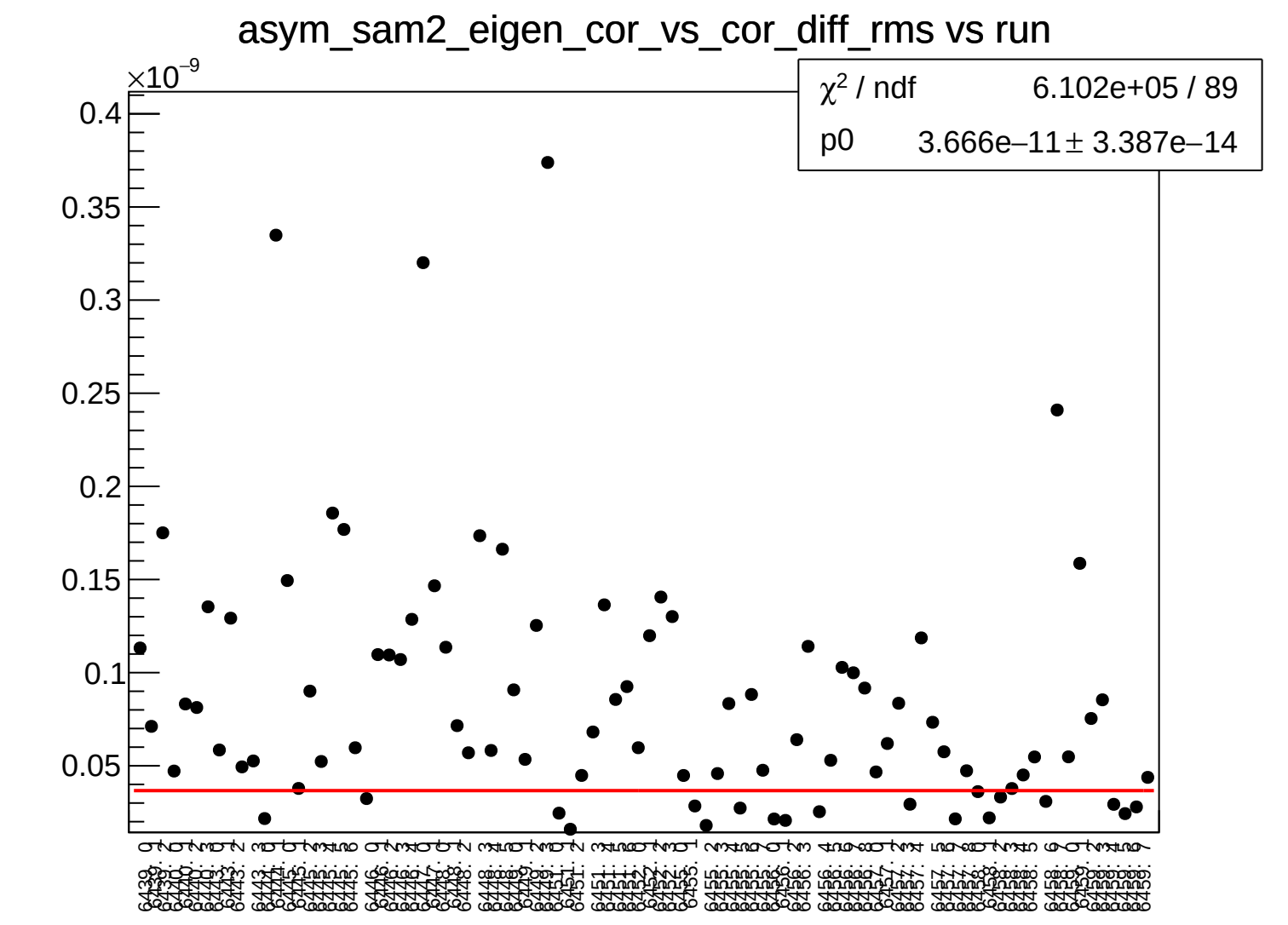

asym_sam2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.458e+04 / 89
p0 133.1 ± 0.1004
260
240
220
200
180
160
140
120
100

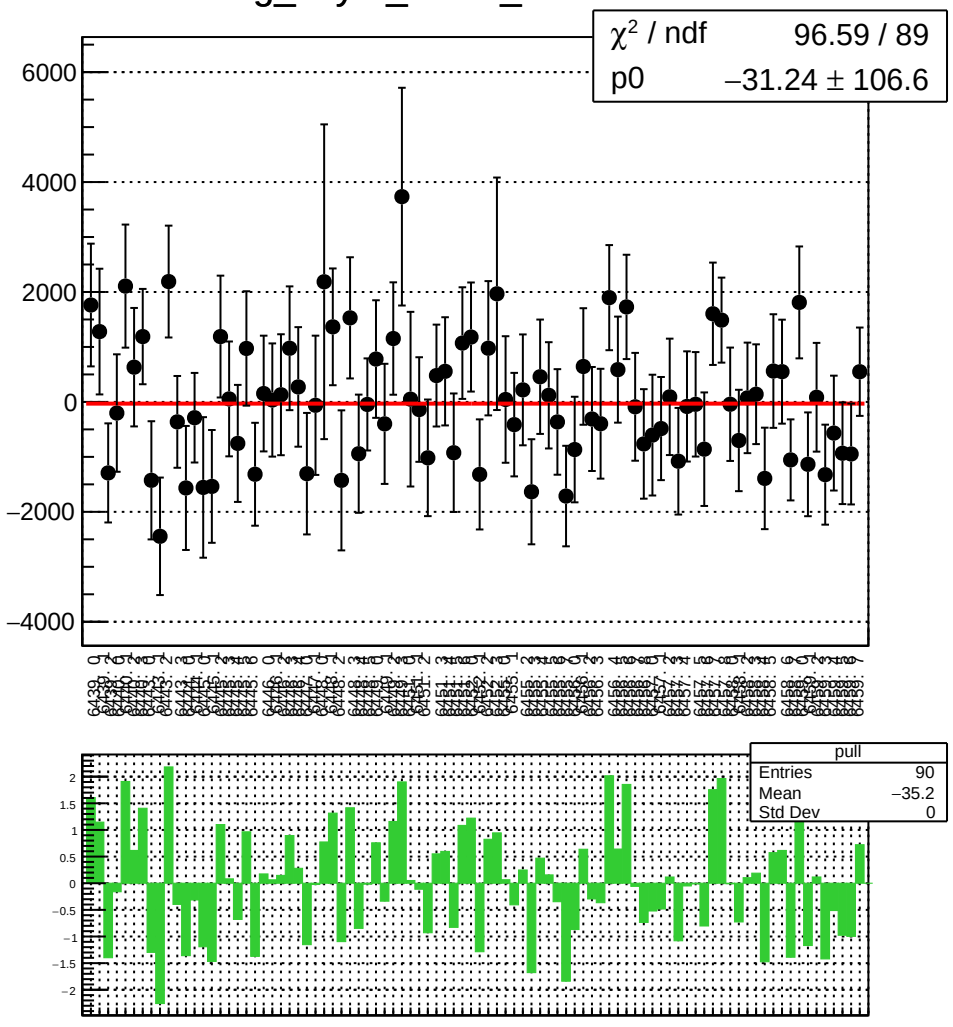

asym_sam2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.14 / 89
p0 −0.1431 ± 0.142
pull
Entries 90
Mean 1.002e+04
Std Dev 0

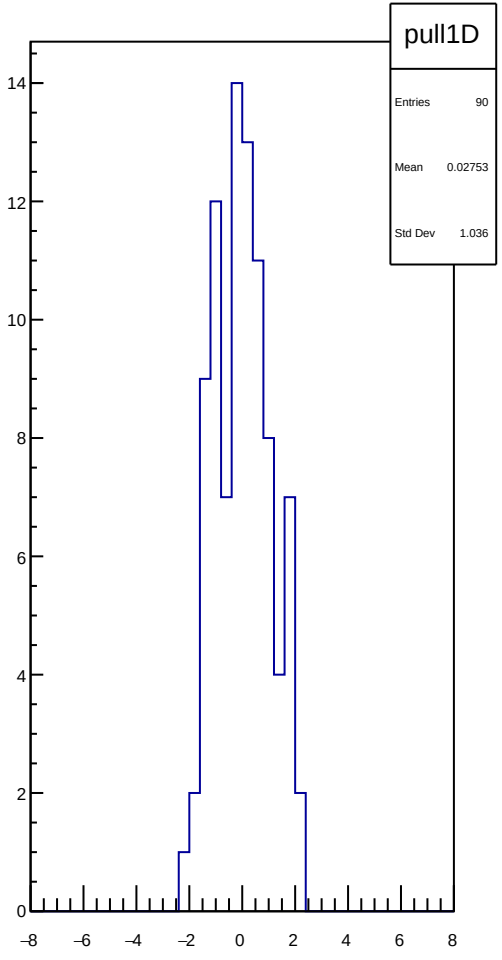

pull1D
Entries 90
Mean −0.0004741
Std Dev 0.9436

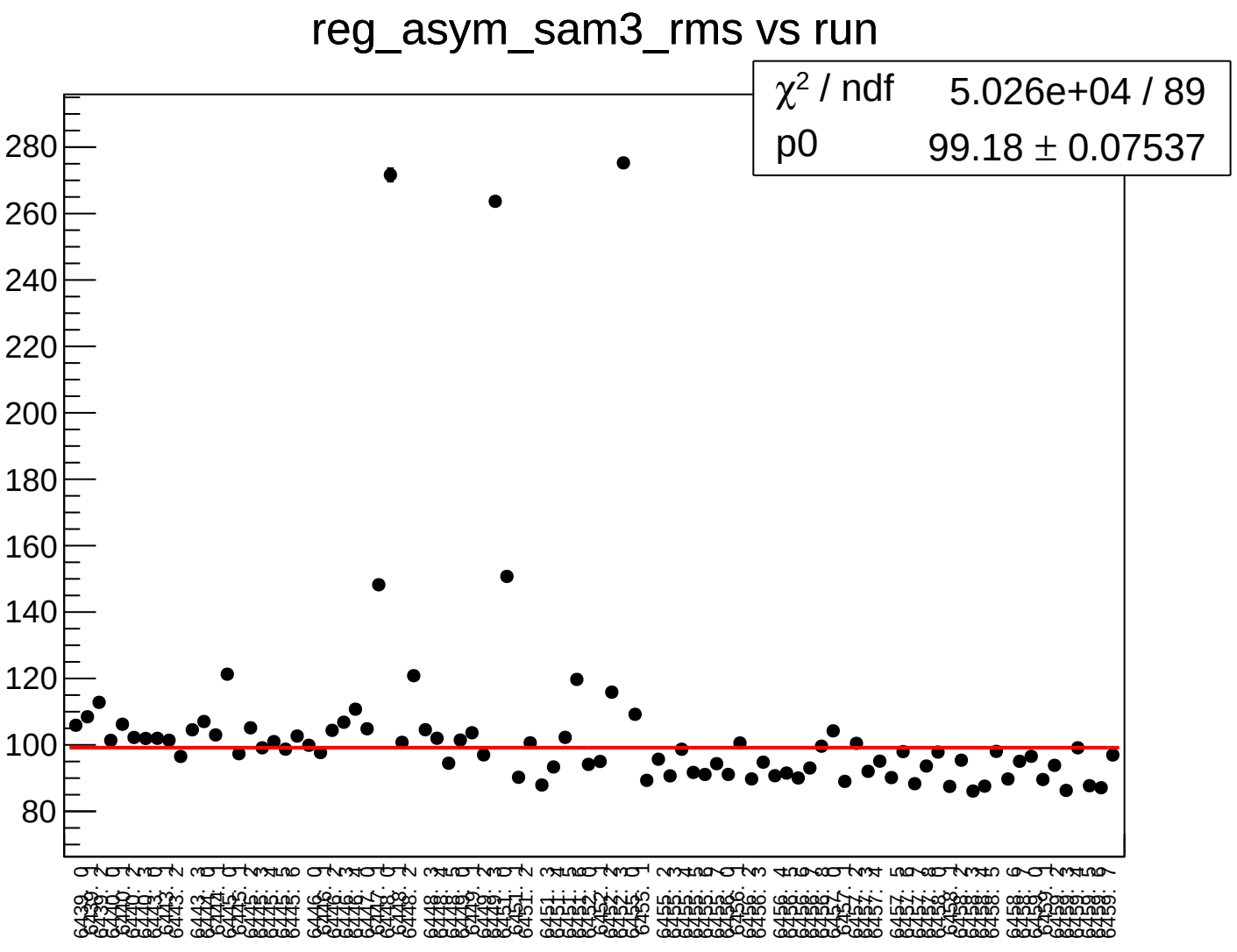

asym_sam2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.458e+04 / 89
p0 133.1 ± 0.1004
260
240
220
200
180
160
140
120
100

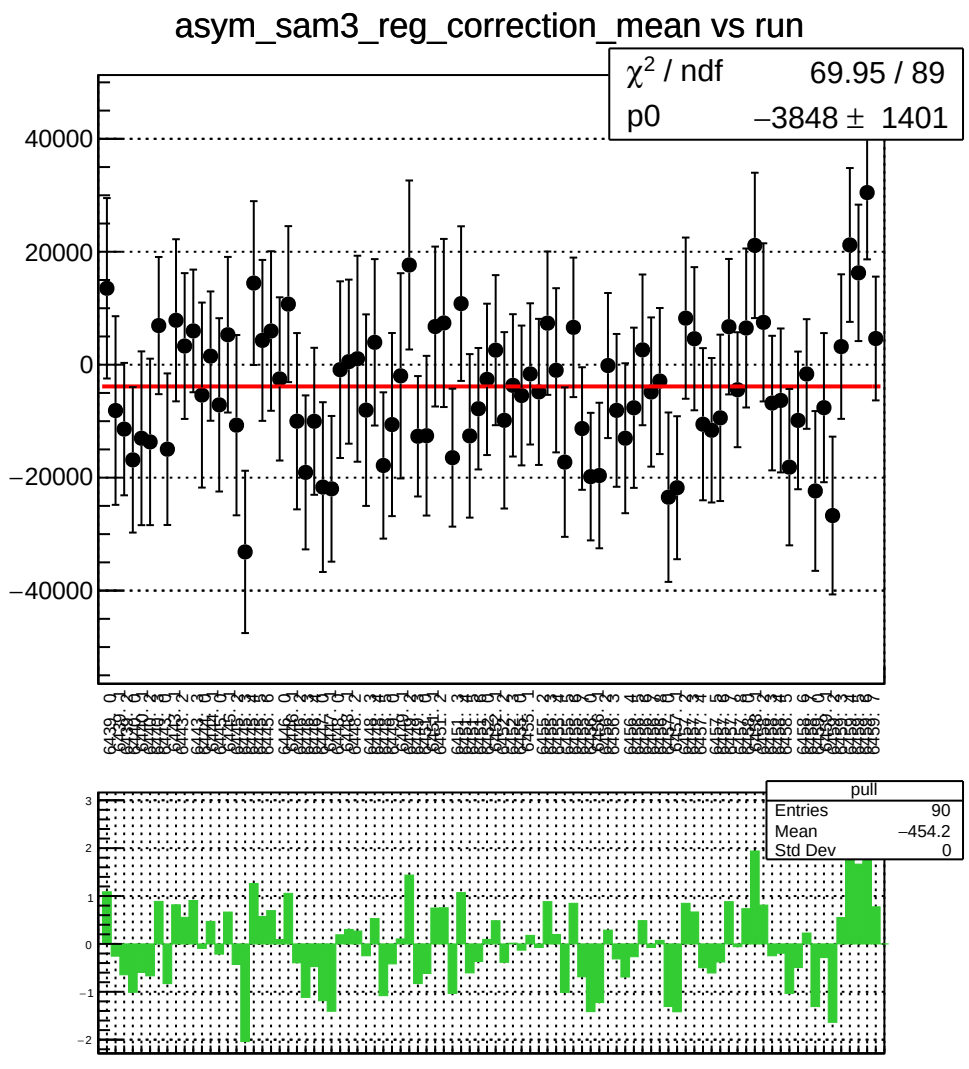

asym_sam2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 70.75 / 89
p0 2.322e−14 ± 4.79e−14
pull
Entries 90
Mean −4.28
Std Dev 0
pull1D
Entries 90
Mean 0.04194
Std Dev 0.8856

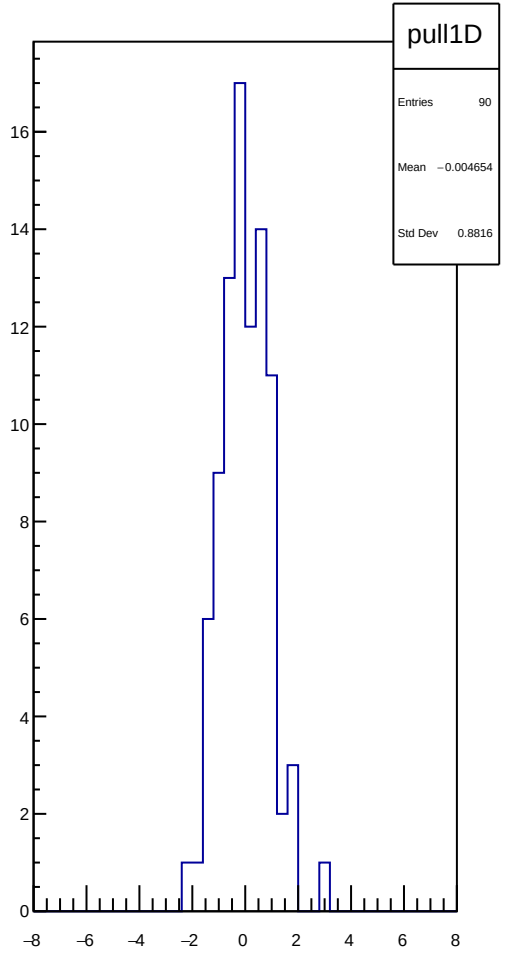

asym_sam2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.102e+05 / 89
p0 3.666e−11 ± 3.387e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05


reg_asym_sam3_mean vs run
χ² / ndf 96.59 / 89
p0 −31.24 ± 106.6
6000
4000
2000
0
−2000
−4000
pull
Entries 90
Mean −35.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 90
Mean 0.02753
Std Dev 1.036
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam3_rms vs run
χ^2 / ndf 5.026e+04 / 89
p0 99.18 ± 0.07537
280
260
240
220
200
180
160
140
120
100
80


asym_sam3_reg_correction_mean vs run
χ² / ndf 69.95 / 89
p0 −3848 ± 1401
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −454.2
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 90
Mean −0.004654
Std Dev 0.8816
16
14
12
10
8
6
4
2
0
−8
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−4
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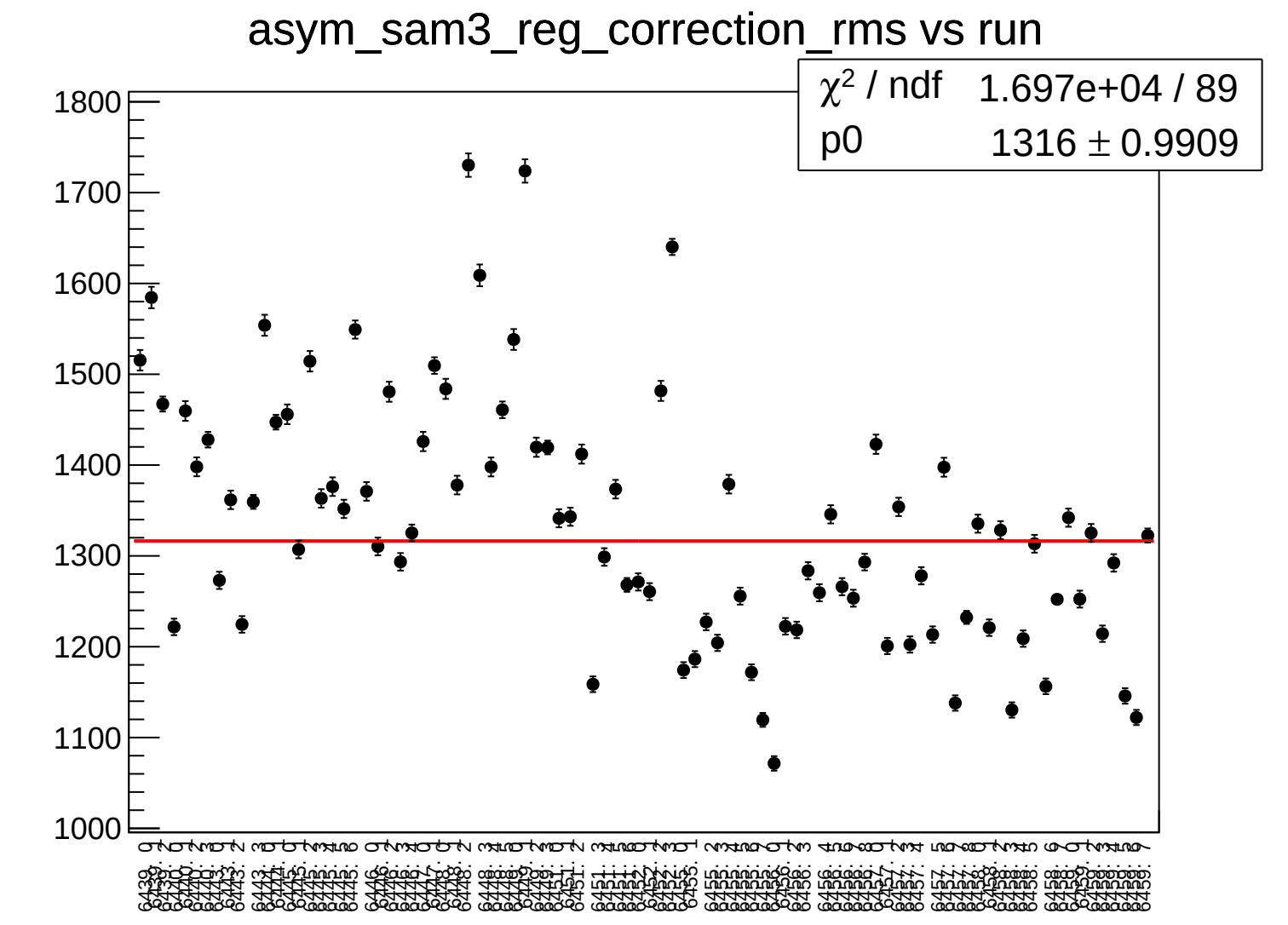
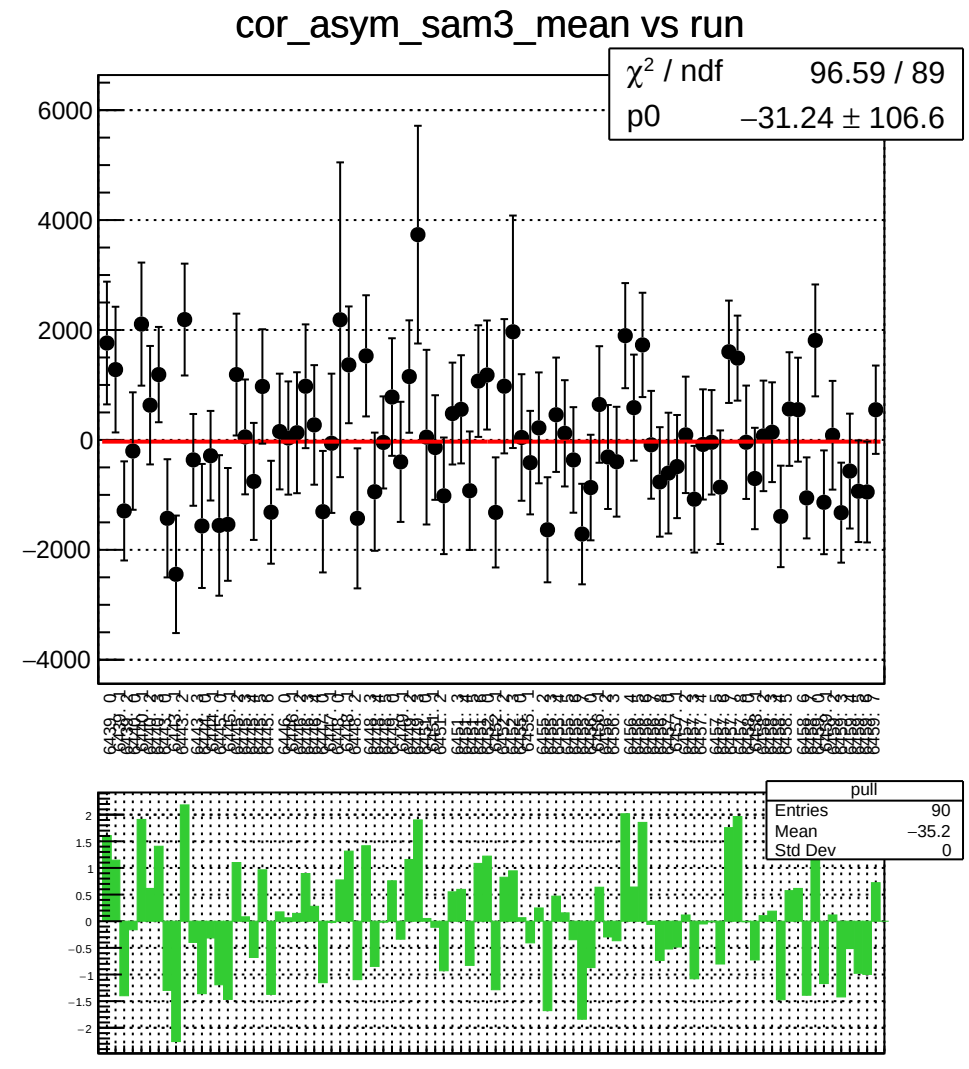
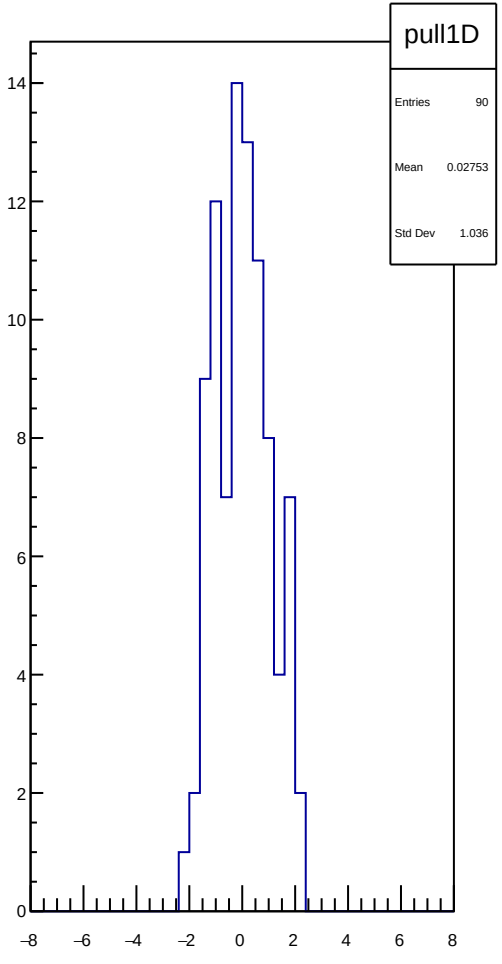
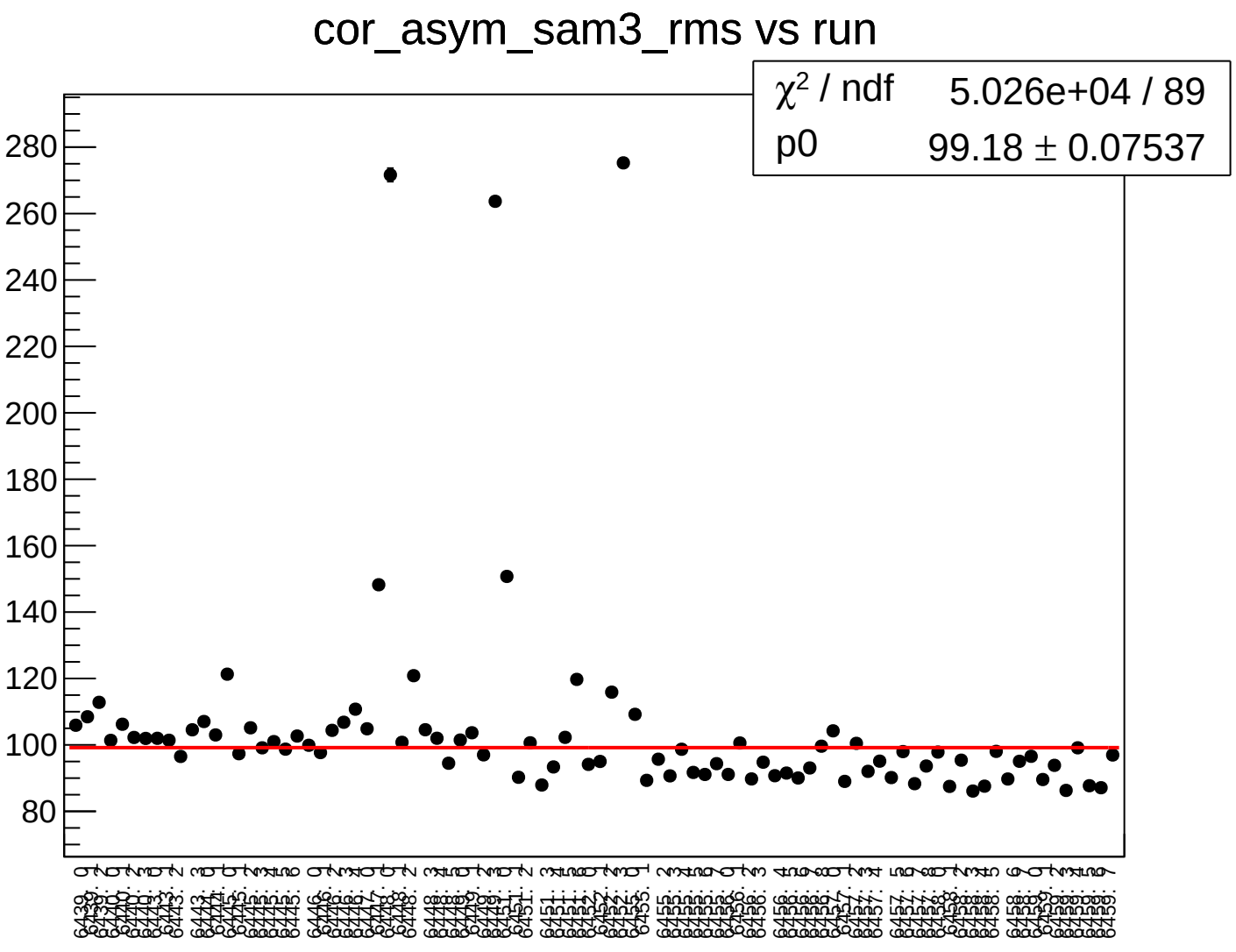
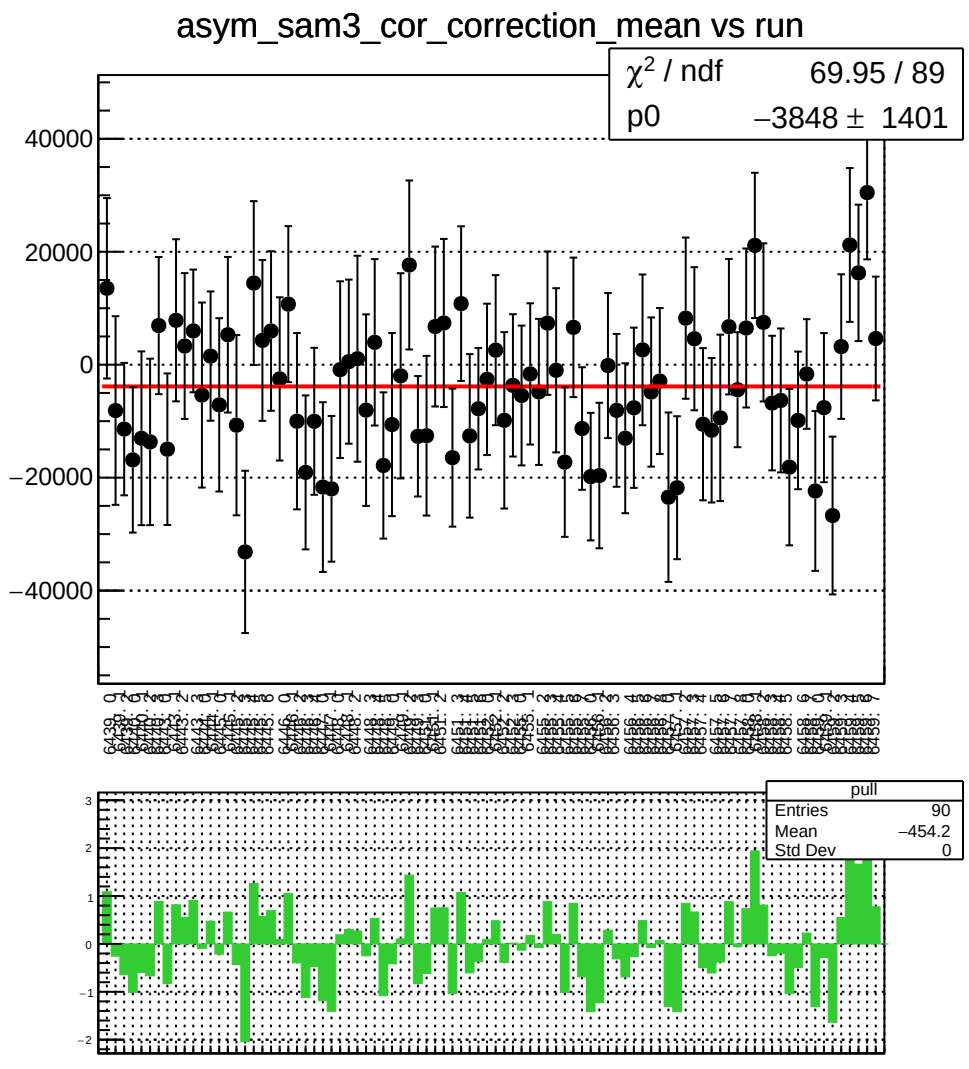
0
2
4
6
8

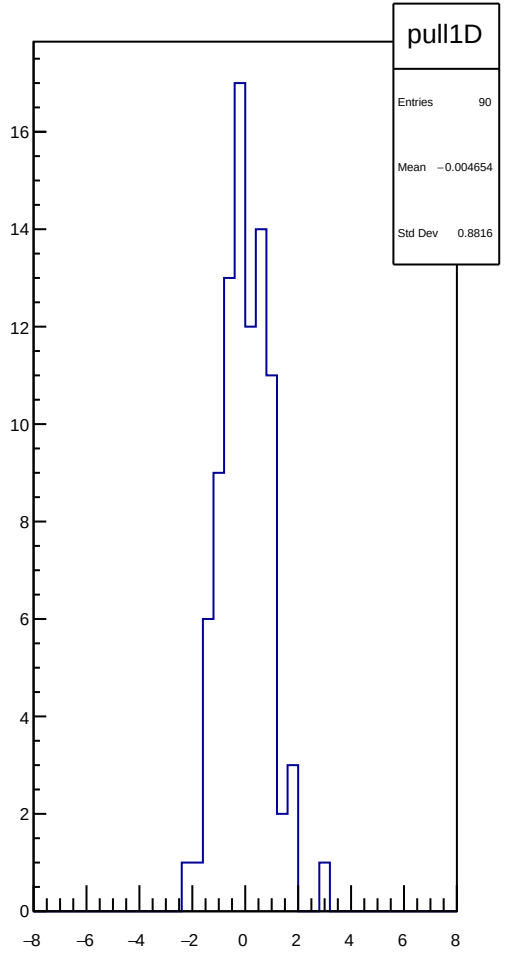

asym_sam3_reg_correction_rms vs run
χ² / ndf 1.697e+04 / 89
p0 1316 ± 0.9909
1800
1700
1600
1500
1400
1300
1200
1100
1000

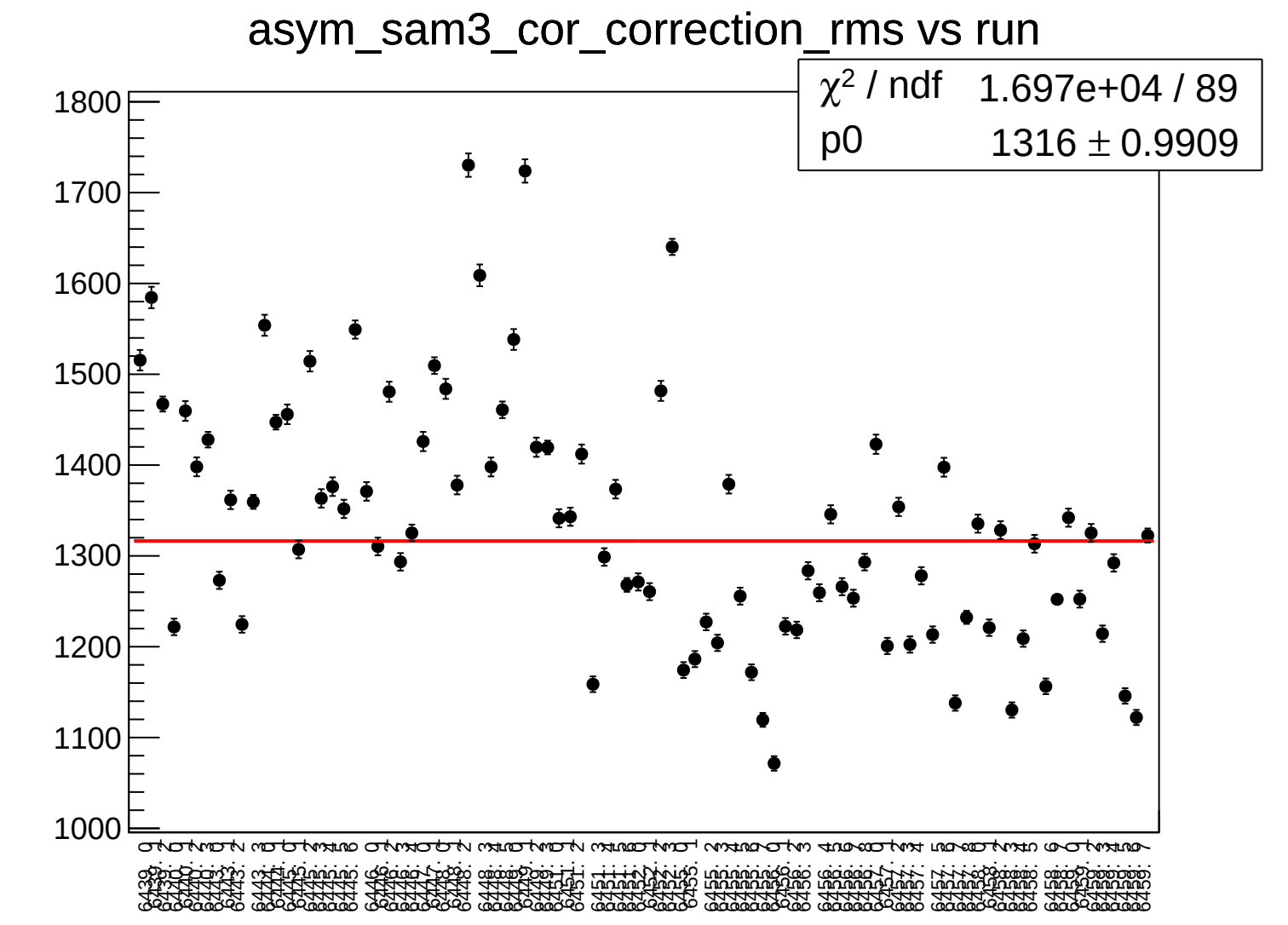

cor_asym_sam3_mean vs run
χ² / ndf 96.59 / 89
p0 −31.24 ± 106.6
6000
4000
2000
0
−2000
−4000
pull
Entries 90
Mean −35.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

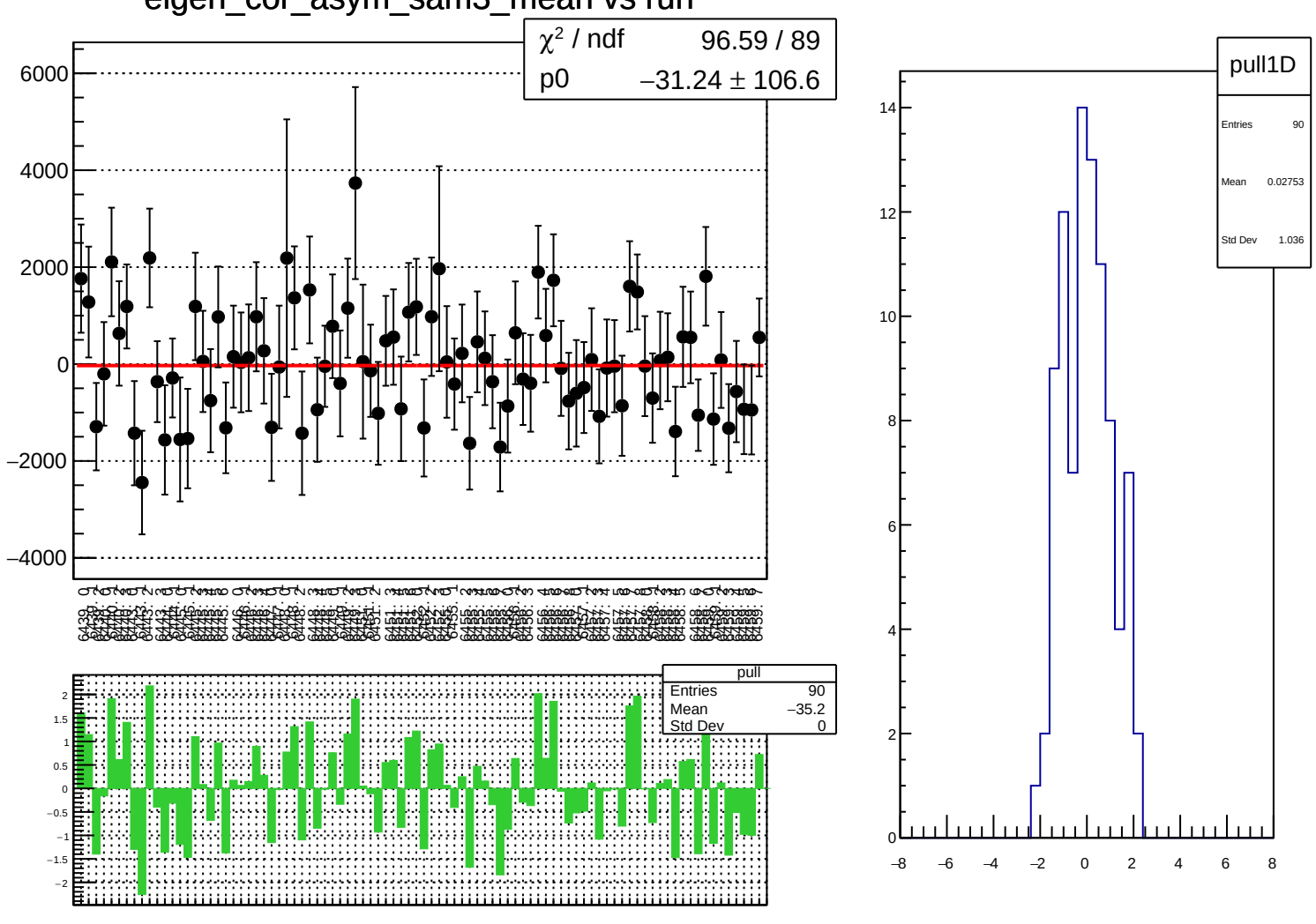

pull1D
Entries 90
Mean 0.02753
Std Dev 1.036
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam3_rms vs run
χ^2 / ndf 5.026e+04 / 89
p0 99.18 ± 0.07537
280
260
240
220
200
180
160
140
120
100
80


asym_sam3_cor_correction_mean vs run
χ² / ndf 69.95 / 89
p0 −3848 ± 1401
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −454.2
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 90
Mean −0.004654
Std Dev 0.8816
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 1.697e+04 / 89
p0 1316 ± 0.9909
1800
1700
1600
1500
1400
1300
1200
1100
1000


eigen_cor_asym_sam3_mean vs run
χ² / ndf 96.59 / 89
p0 −31.24 ± 106.6
6000
4000
2000
0
−2000
−4000
pull
Entries 90
Mean −35.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 90
Mean 0.02753
Std Dev 1.036
14
12
10
8
6
4
2
0
−8
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−4
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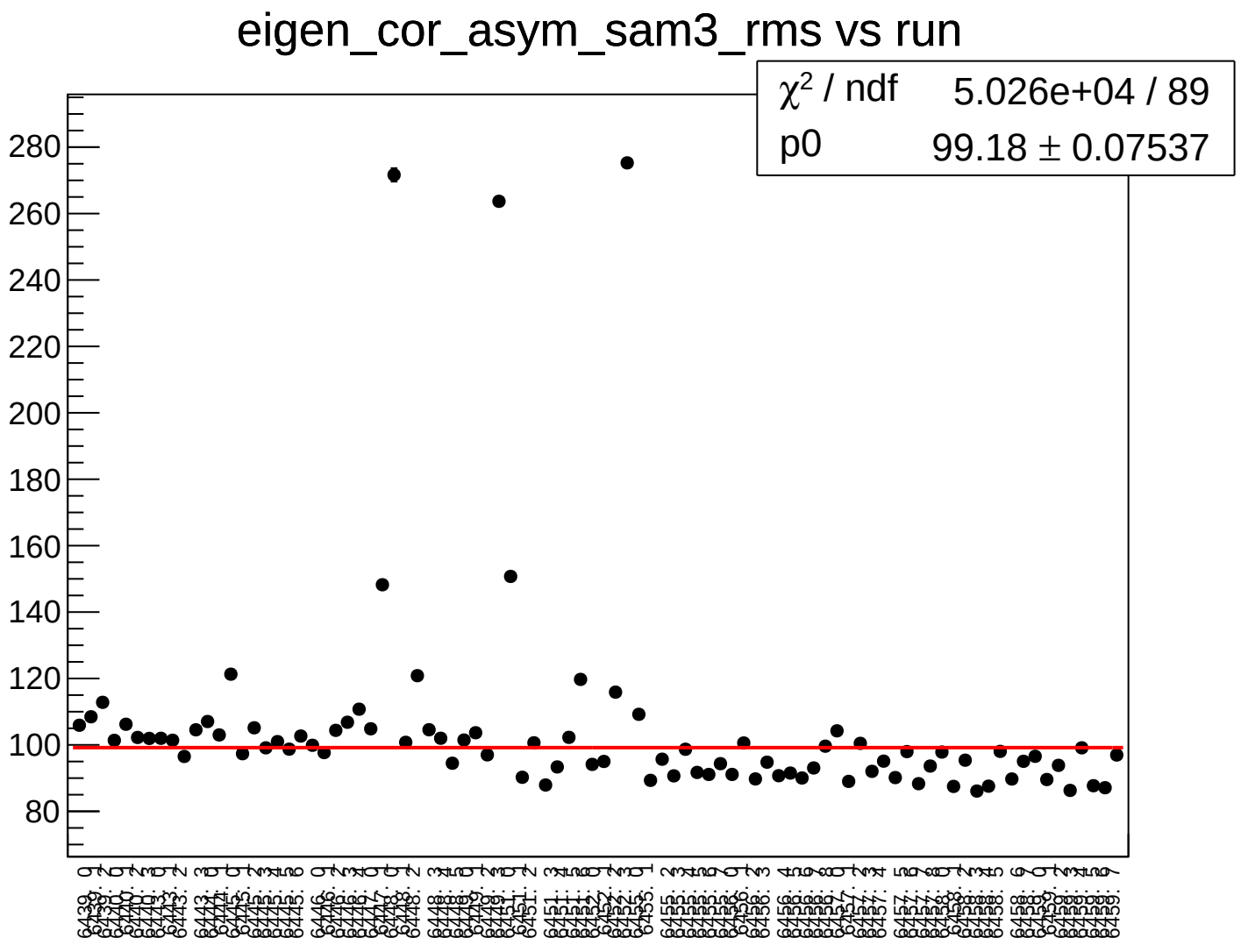
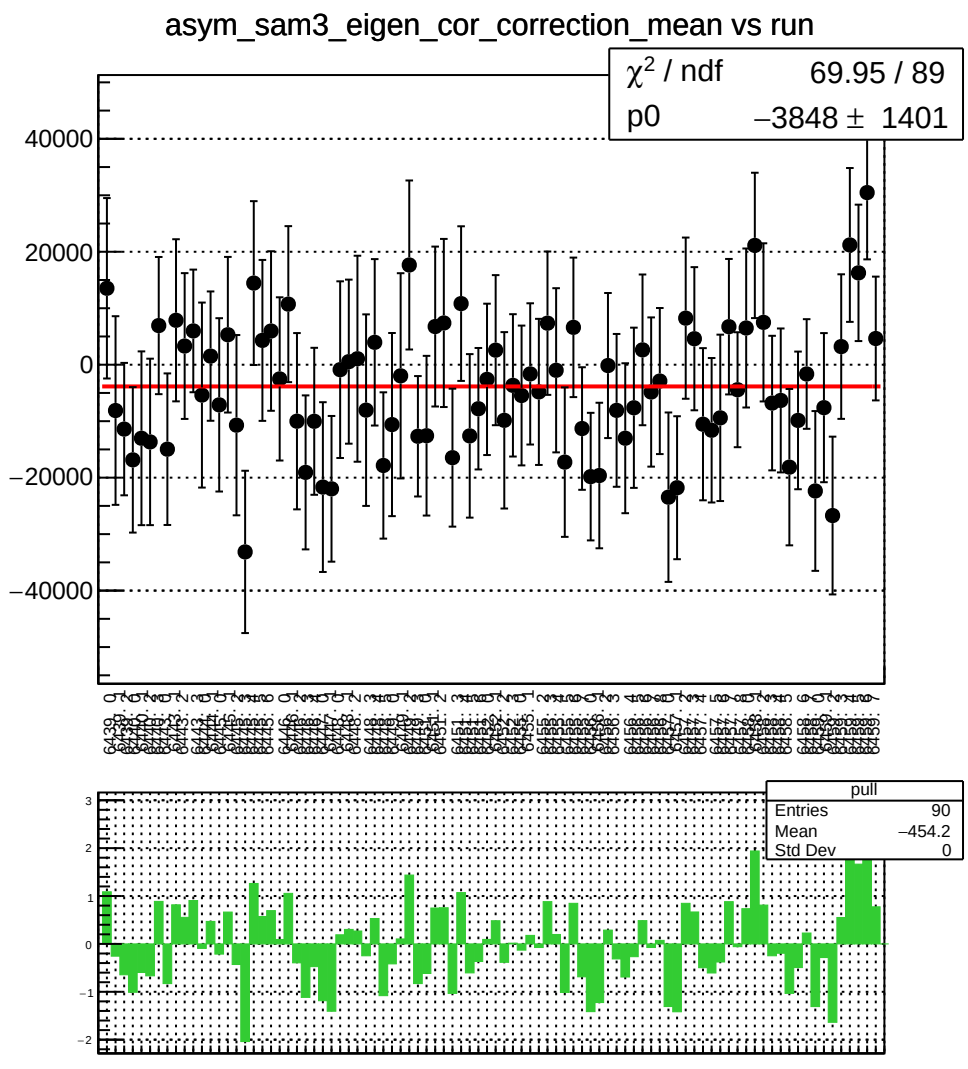
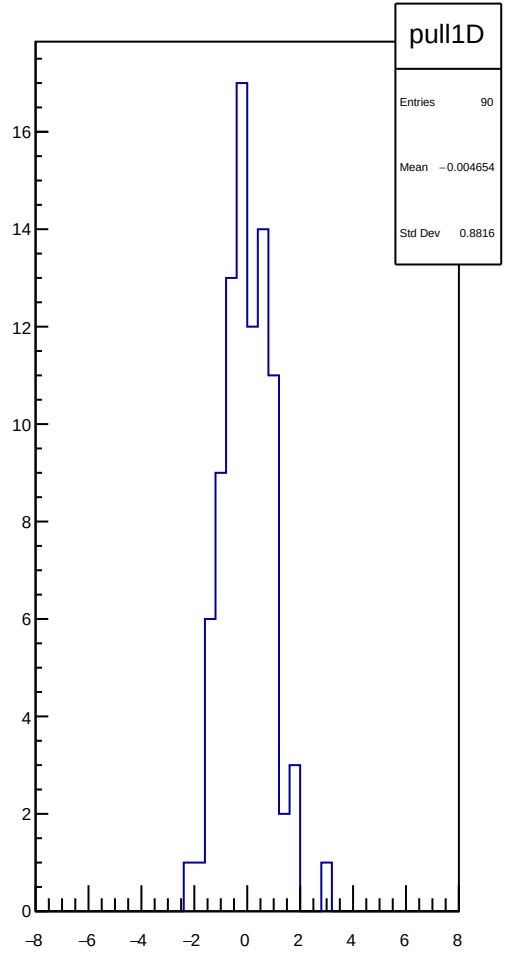
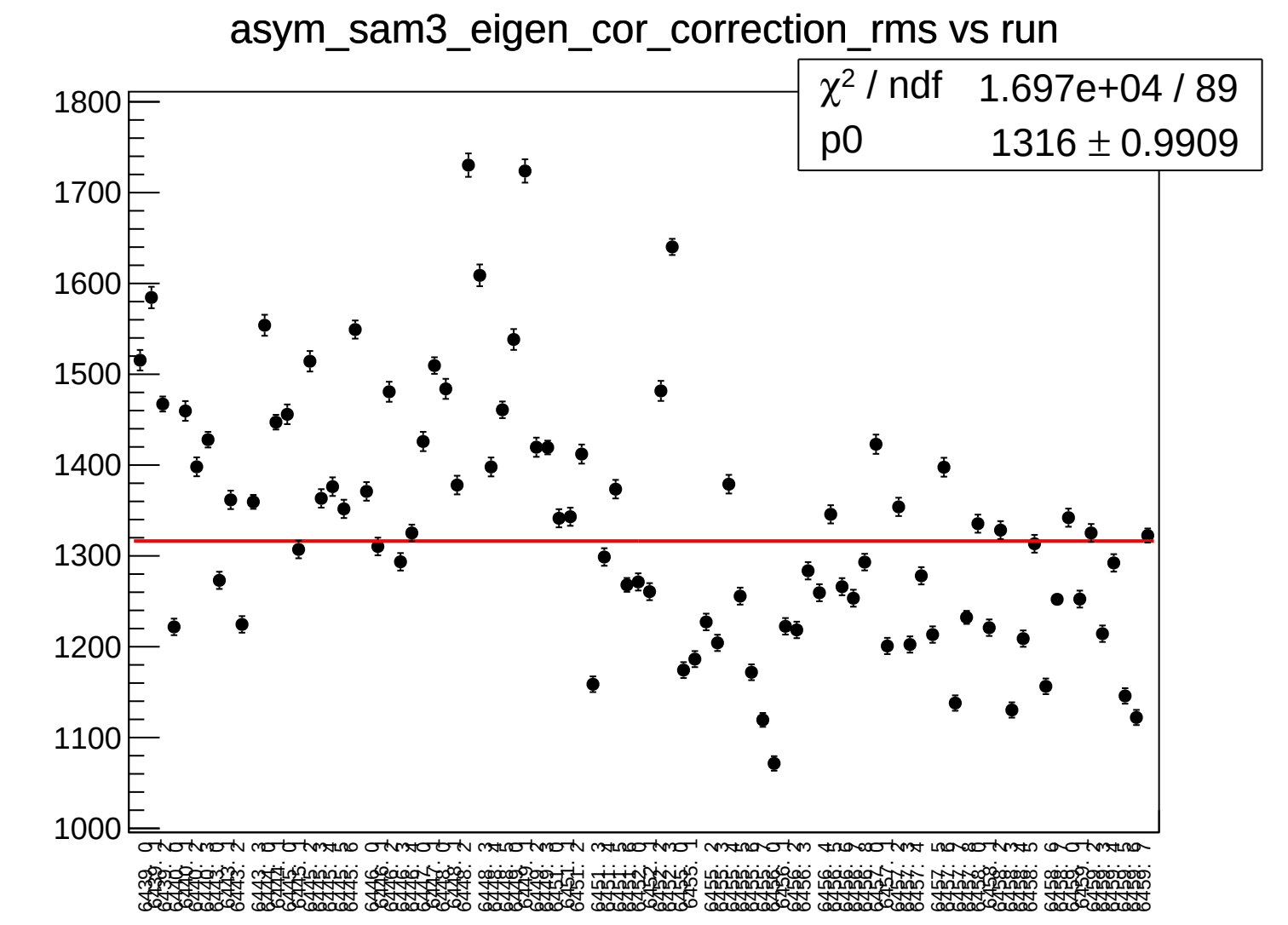
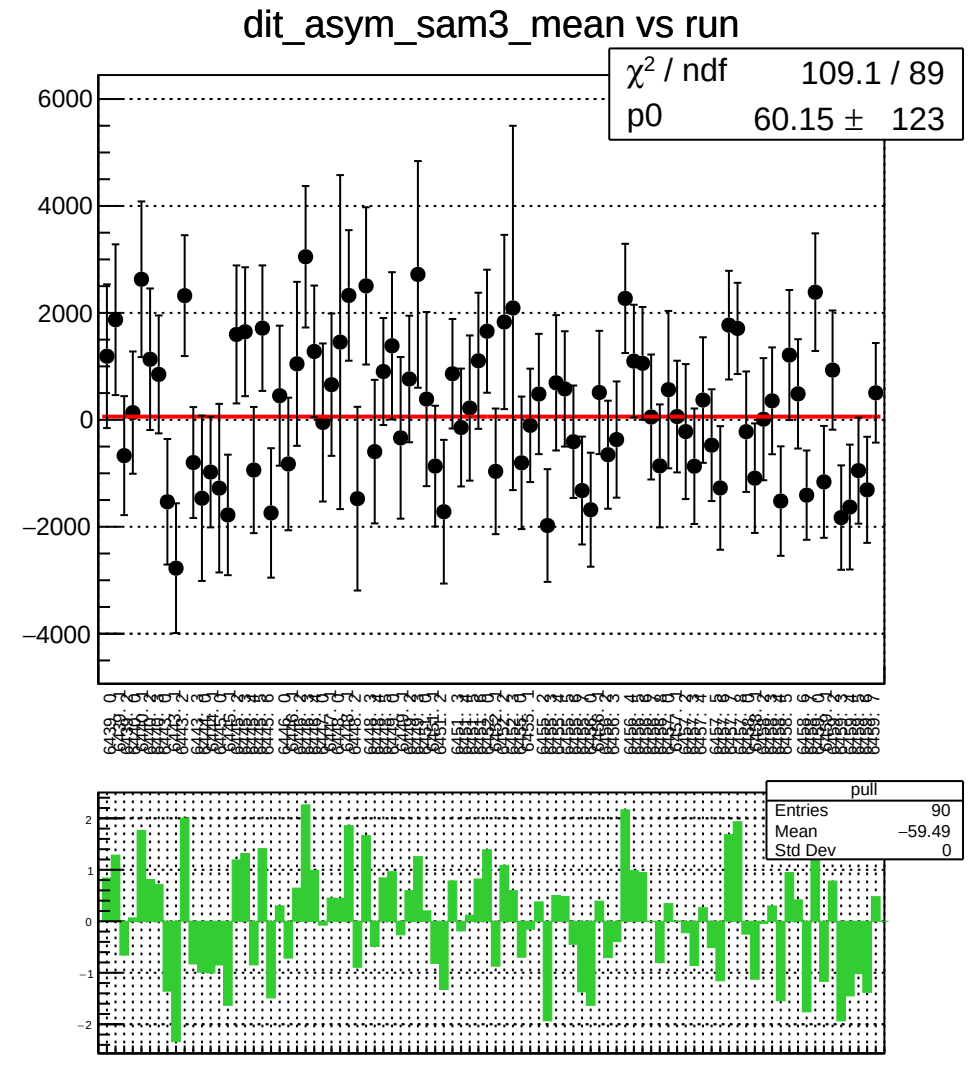
0
2
4
6
8

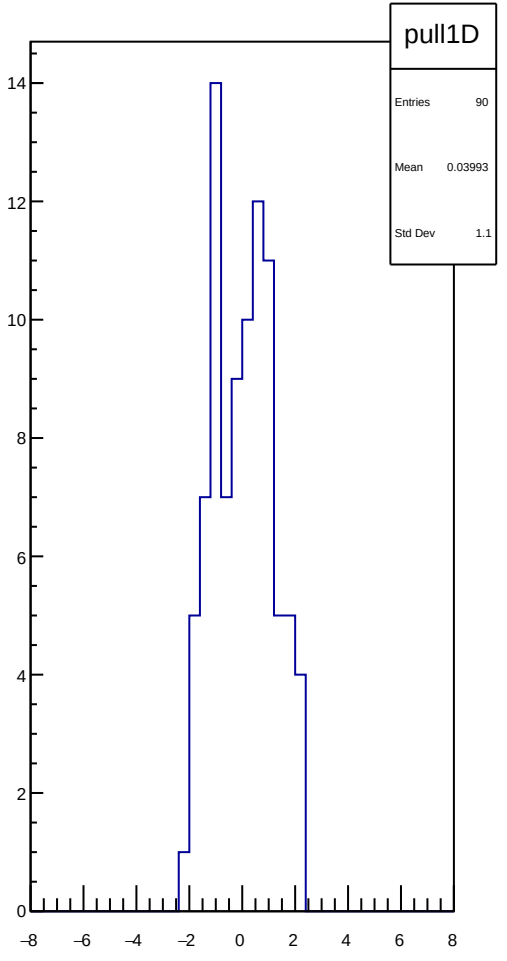

eigen_cor_asym_sam3_rms vs run
χ^2 / ndf 5.026e+04 / 89
p0 99.18 ± 0.07537
280
260
240
220
200
180
160
140
120
100
80

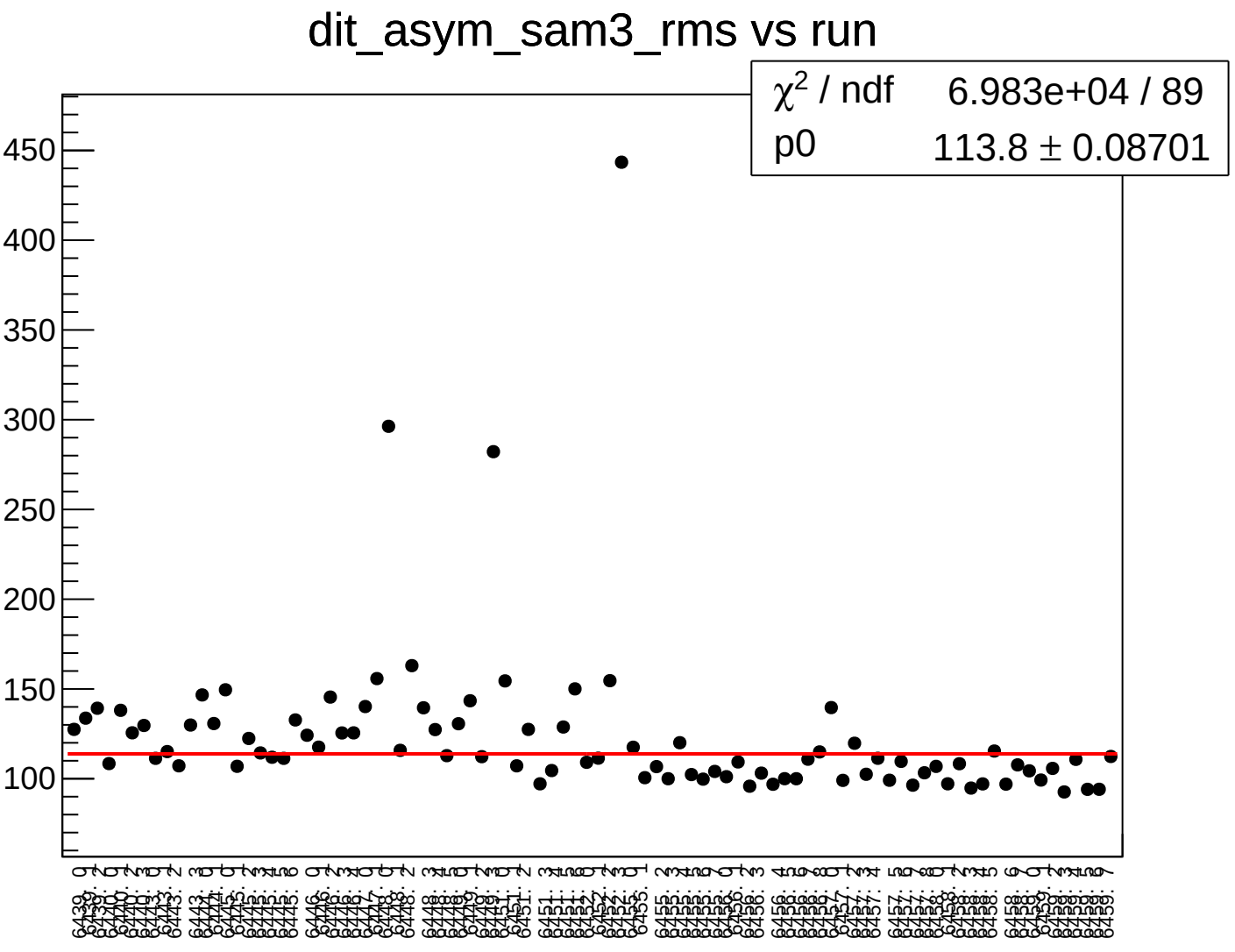

asym_sam3_eigen_cor_correction_mean vs run
χ² / ndf 69.95 / 89
p0 −3848 ± 1401
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −454.2
Std Dev 0
3
2
1
0
−1
−2

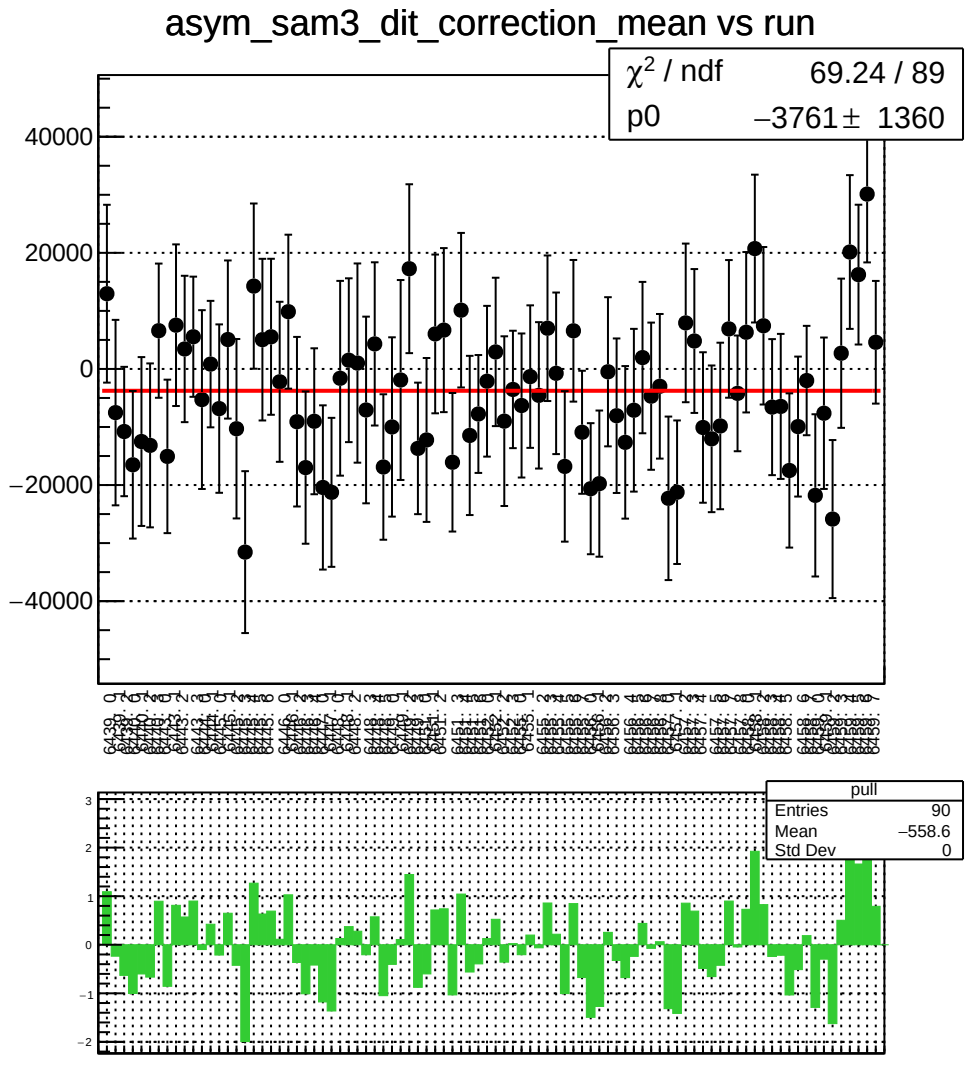

pull1D
Entries 90
Mean −0.004654
Std Dev 0.8816
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

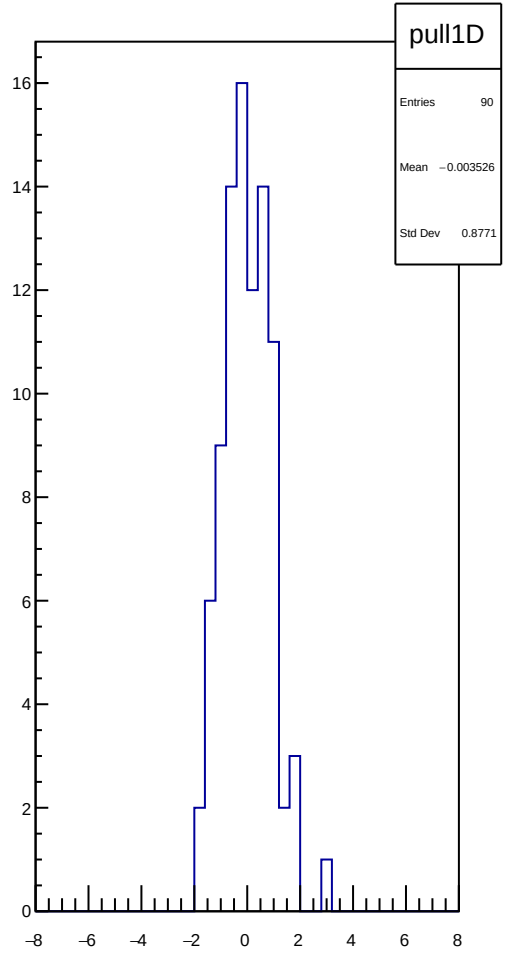

asym_sam3_eigen_cor_correction_rms vs run
χ² / ndf 1.697e+04 / 89
p0 1316 ± 0.9909
1800
1700
1600
1500
1400
1300
1200
1100
1000


dit_asym_sam3_mean vs run
χ² / ndf 109.1 / 89
p0 60.15 ± 123
6000
4000
2000
0
−2000
−4000
pull
Entries 90
Mean −59.49
Std Dev 0
2
1
0
−1
−2

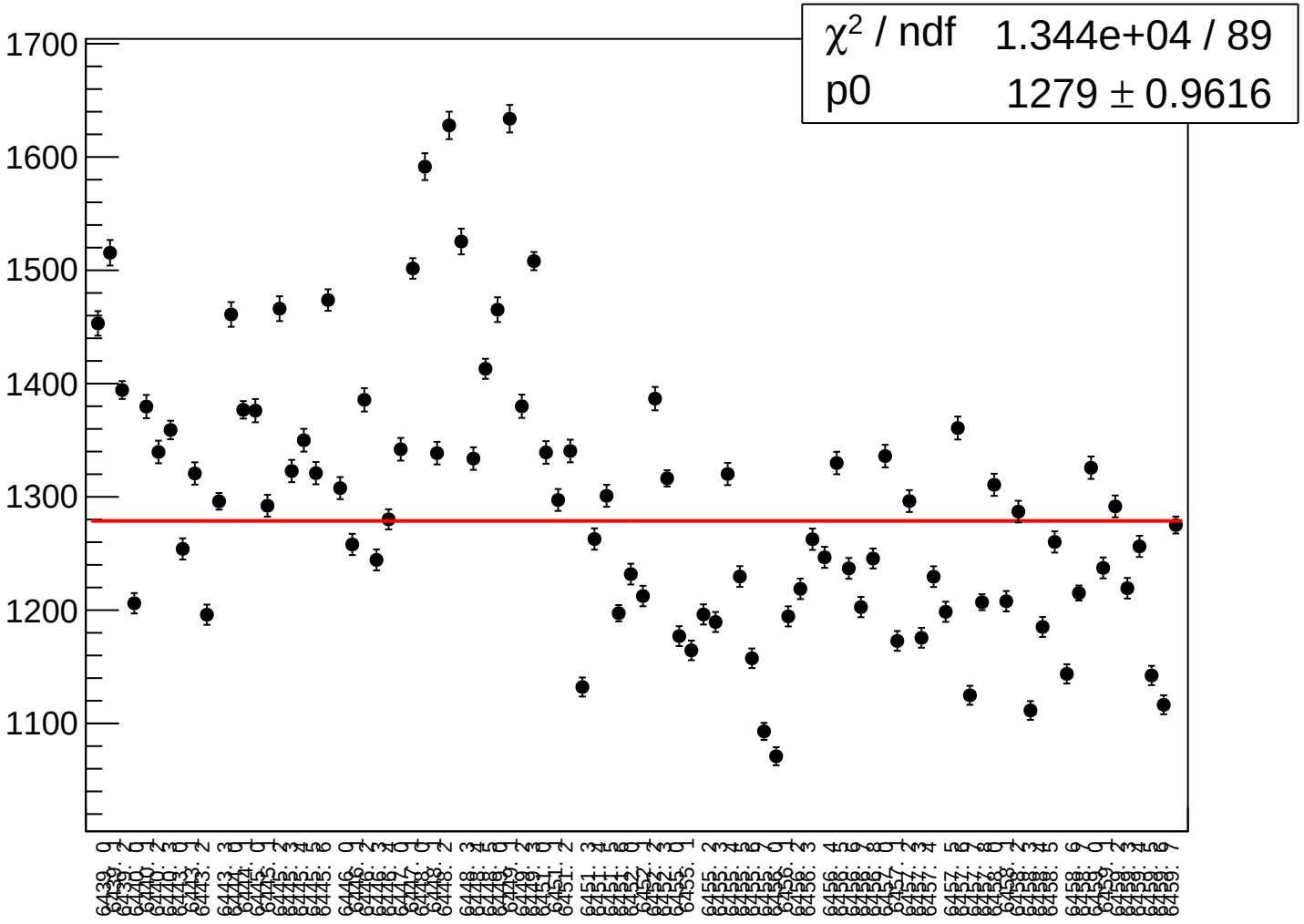

pull1D
Entries 90
Mean 0.03993
Std Dev 1.1
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

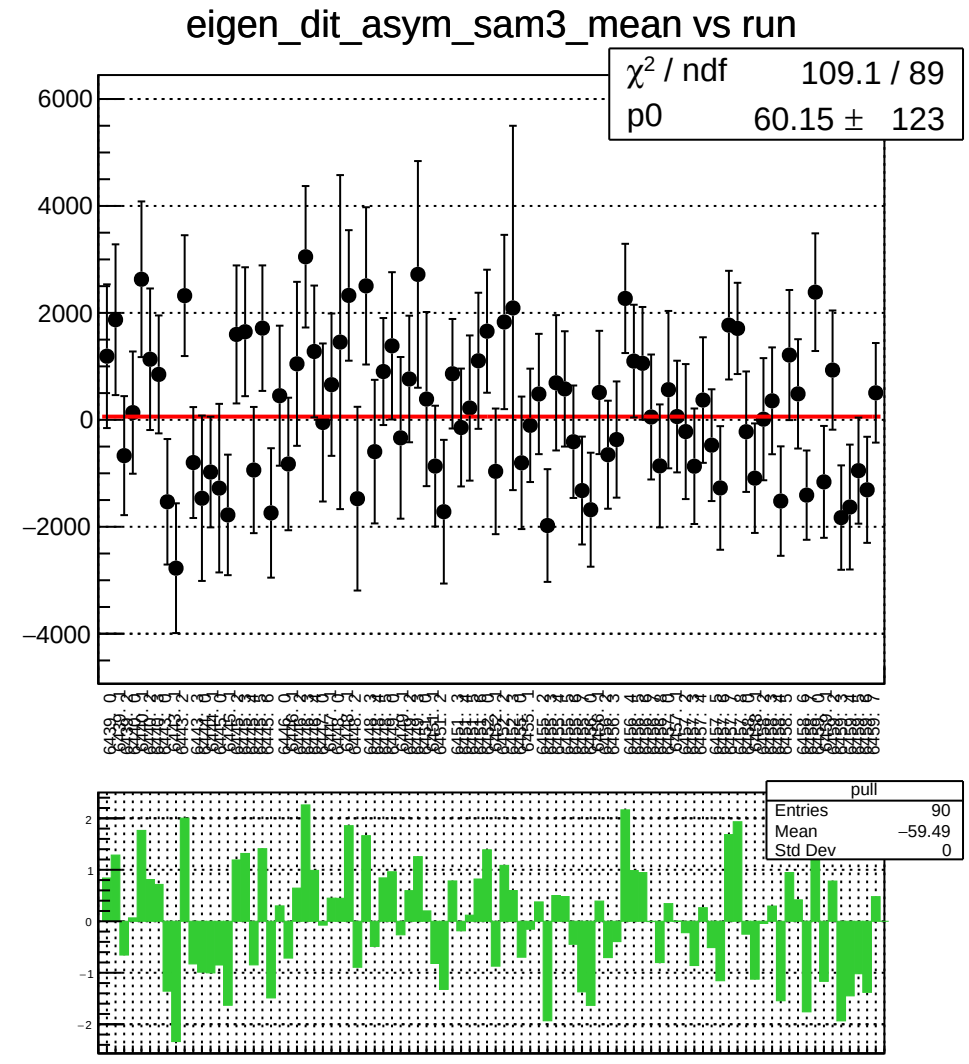

dit_asym_sam3_rms vs run
χ^2 / ndf 6.983e+04 / 89
p0 113.8 ± 0.08701
450
400
350
300
250
200
150
100

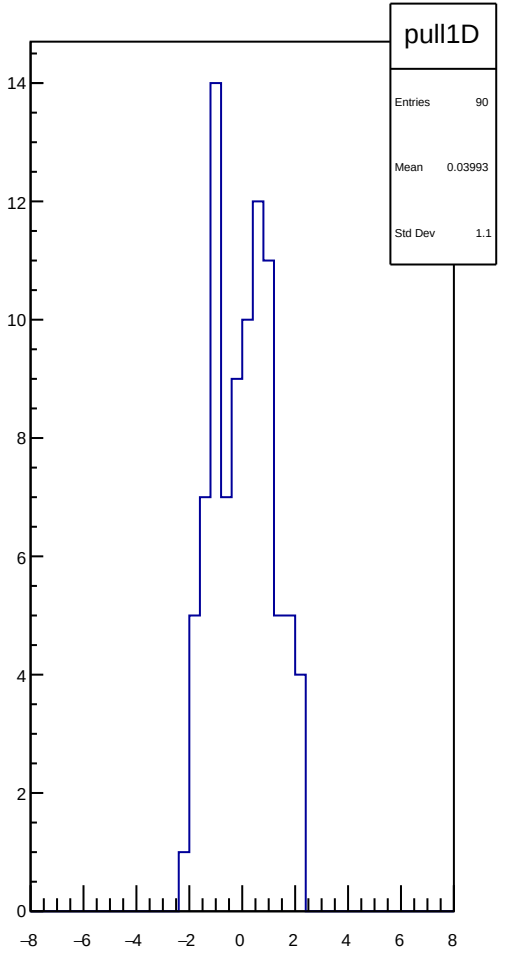

asym_sam3_dit_correction_mean vs run
χ² / ndf 69.24 / 89
p0 −3761 ± 1360
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −558.6
Std Dev 0
3
2
1
0
−1
−2

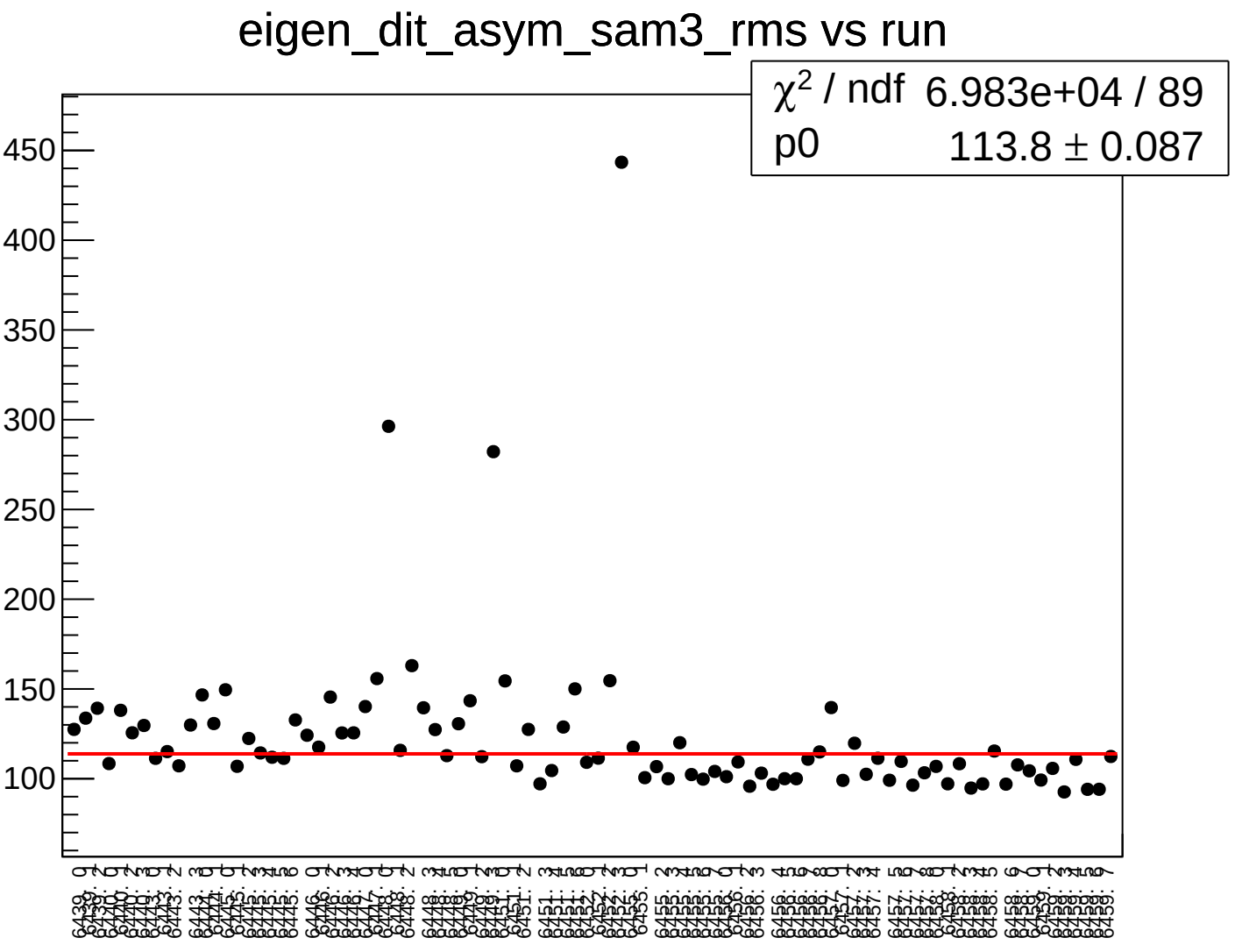

pull1D
Entries 90
Mean −0.003526
Std Dev 0.8771
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

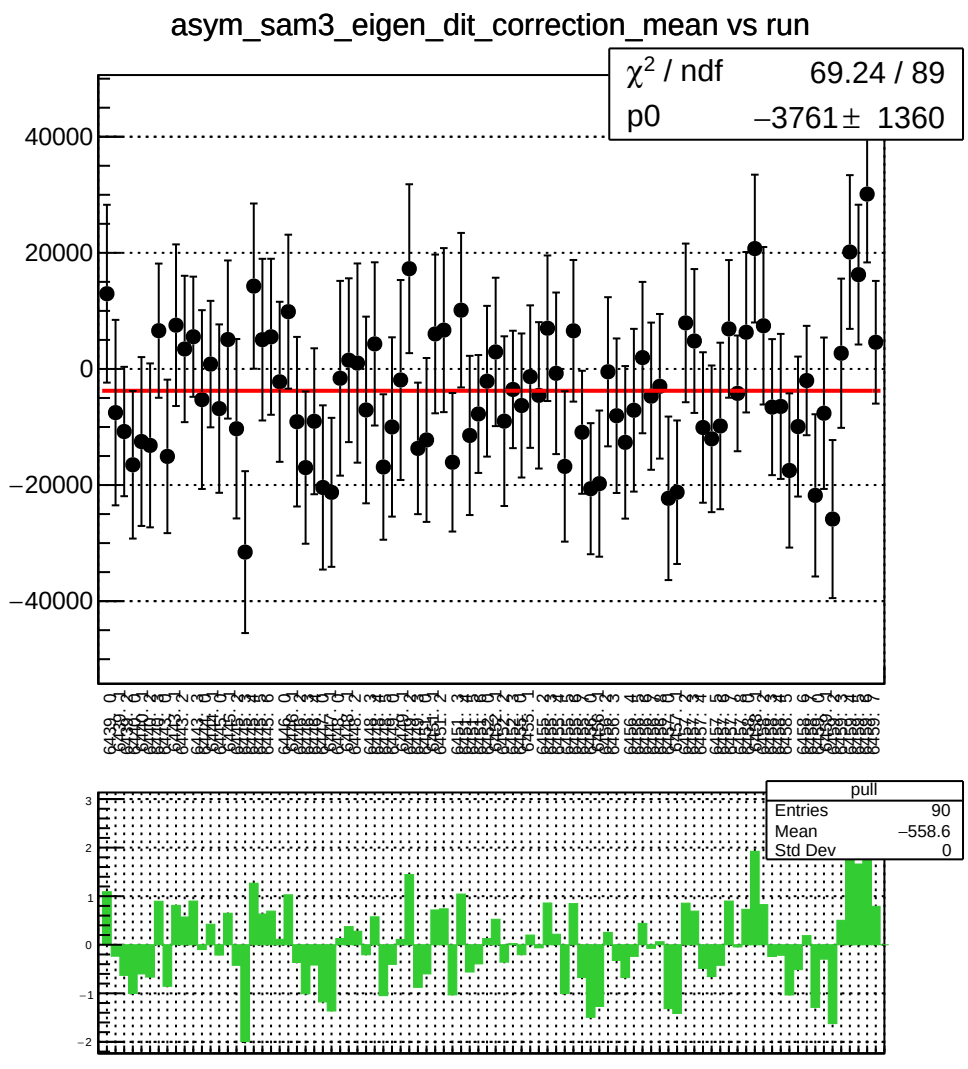
asym_sam3_dit_correction_rms vs run

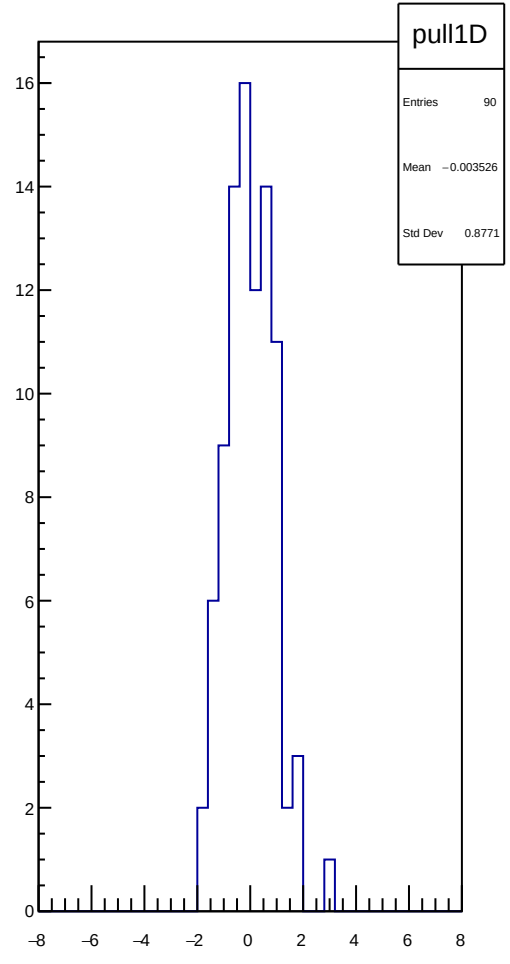


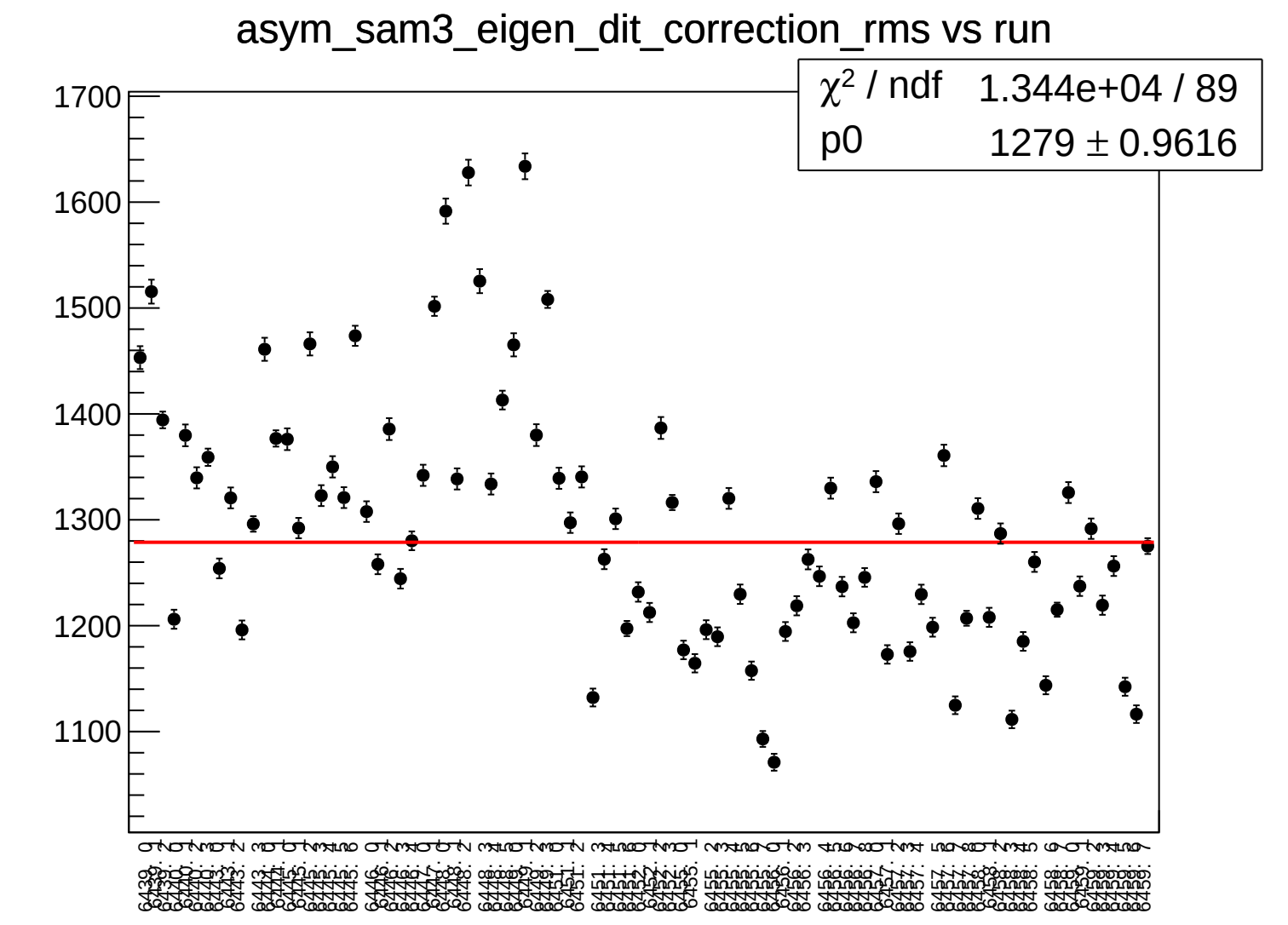

eigen_dit_asym_sam3_mean vs run
χ² / ndf 109.1 / 89
p0 60.15 ± 123
6000
4000
2000
0
−2000
−4000
pull
Entries 90
Mean −59.49
Std Dev 0
2
1
0
−1
−2

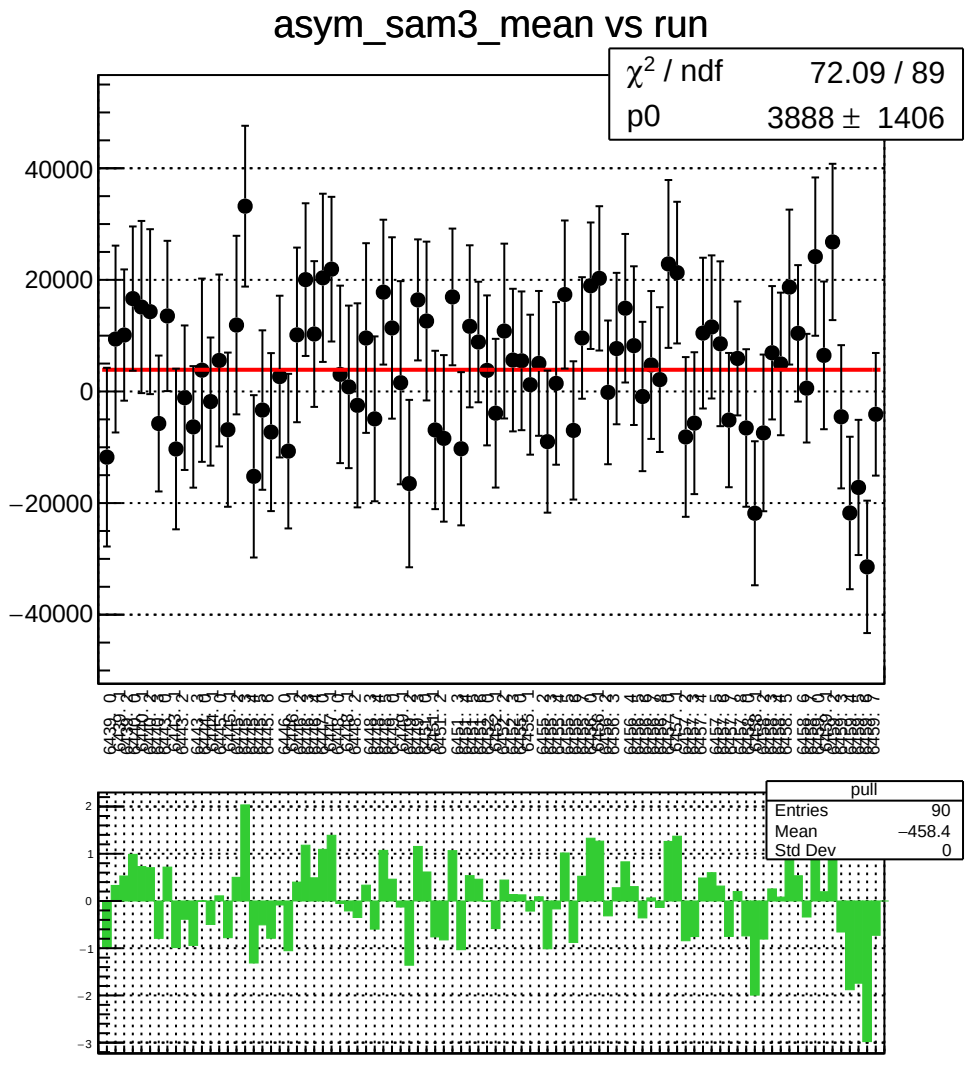

pull1D
Entries 90
Mean 0.03993
Std Dev 1.1
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

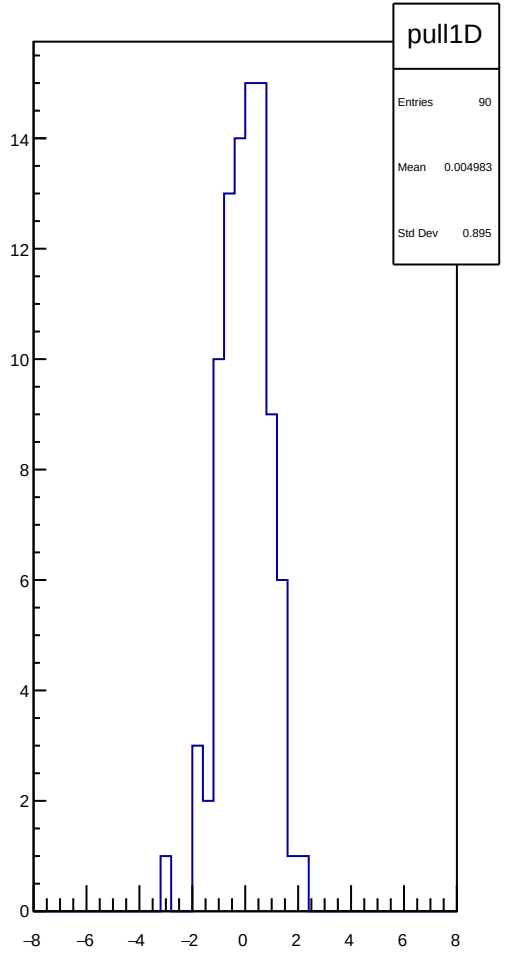

eigen_dit_asym_sam3_rms vs run
χ^2 / ndf 6.983e+04 / 89
p0 113.8 ± 0.087
450
400
350
300
250
200
150
100

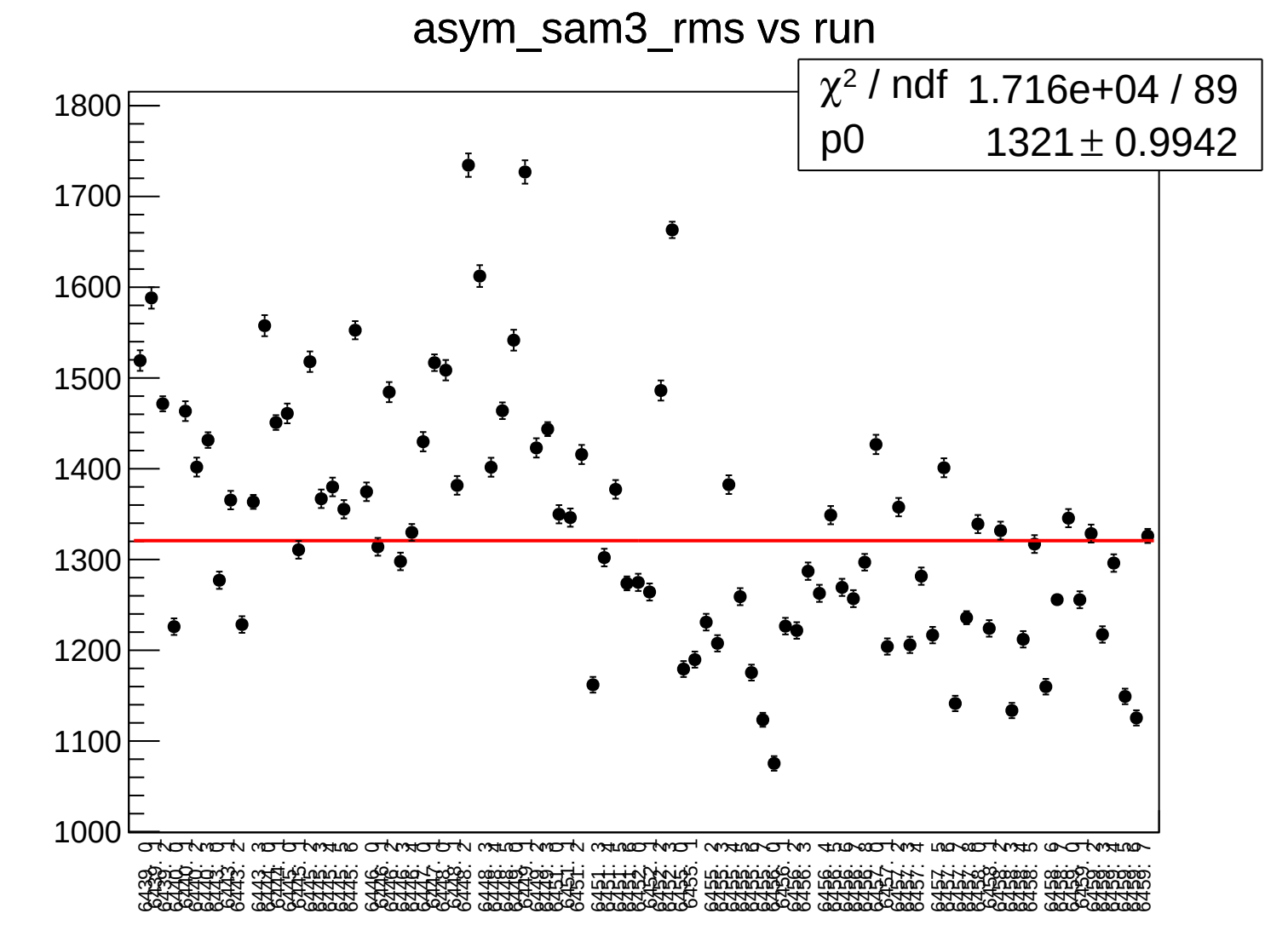

asym_sam3_eigen_dit_correction_mean vs run
χ² / ndf 69.24 / 89
p0 −3761 ± 1360
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −558.6
Std Dev 0
3
2
1
0
−1
−2

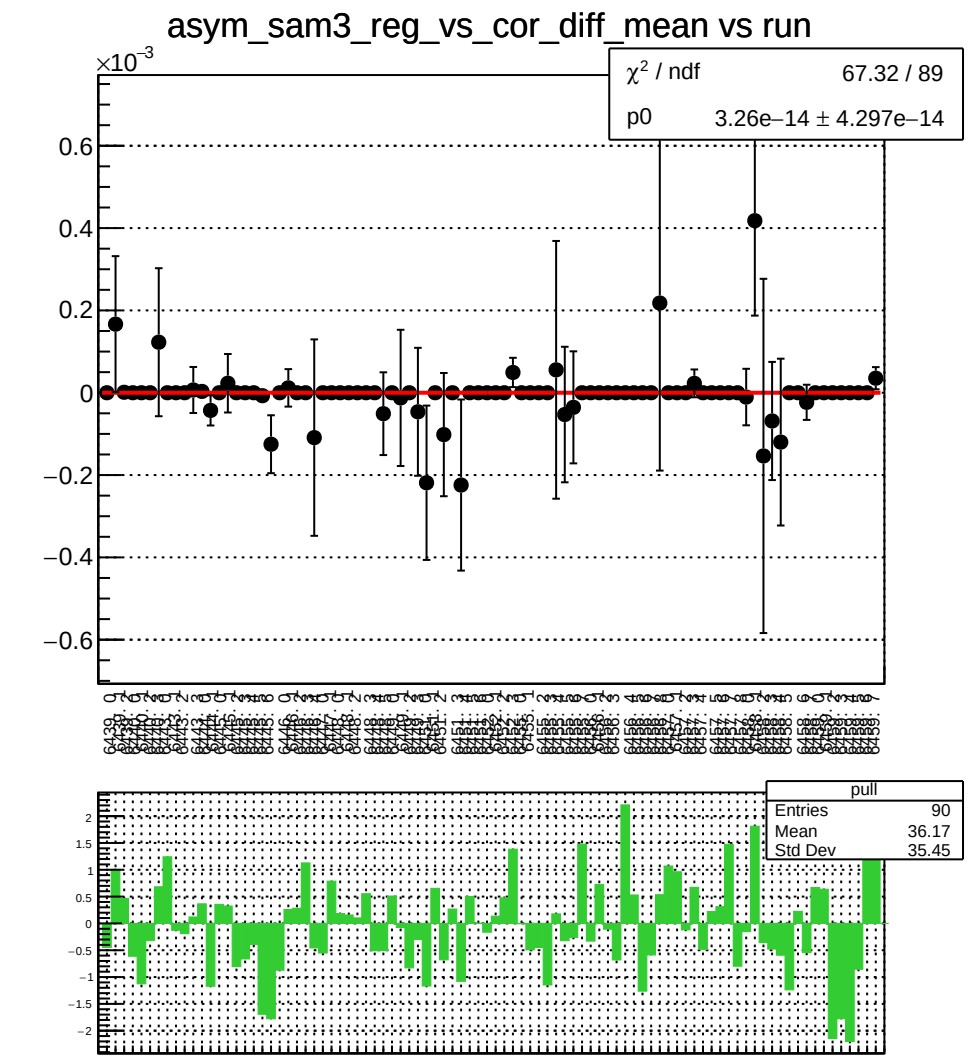

pull1D
Entries 90
Mean −0.003526
Std Dev 0.8771
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

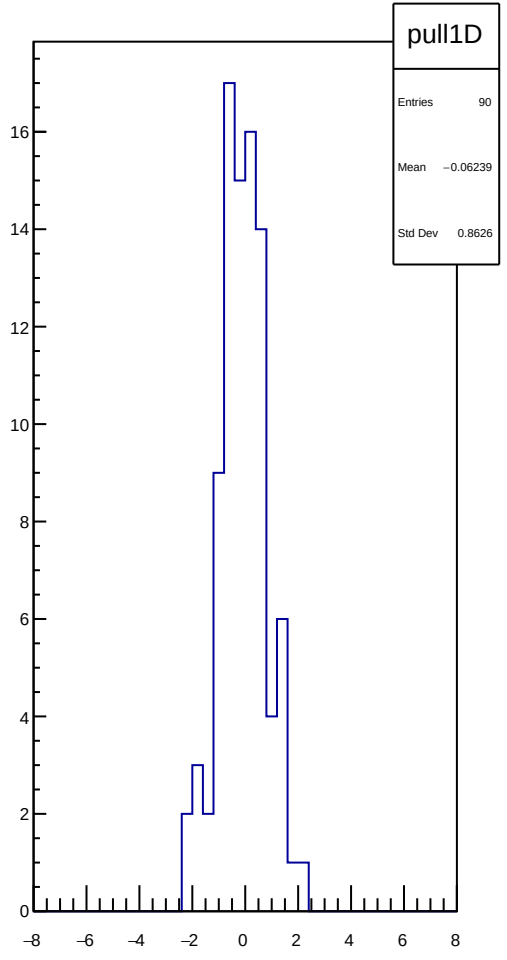

asym_sam3_eigen_dit_correction_rms vs run
χ² / ndf 1.344e+04 / 89
p0 1279 ± 0.9616
1700
1600
1500
1400
1300
1200
1100

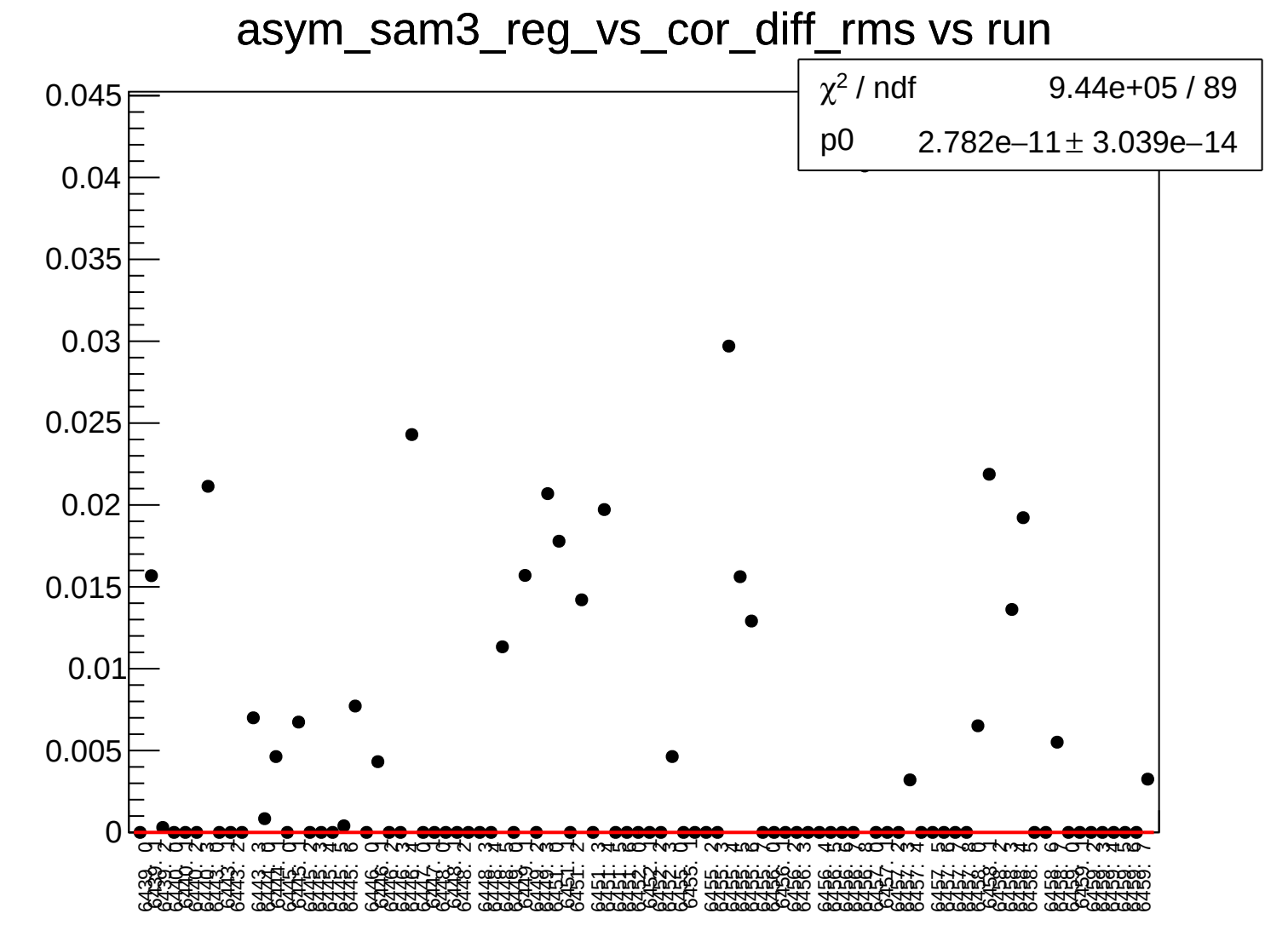

asym_sam3_mean vs run
χ² / ndf 72.09 / 89
p0 3888 ± 1406
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −458.4
Std Dev 0
2
1
0
−1
−2
−3

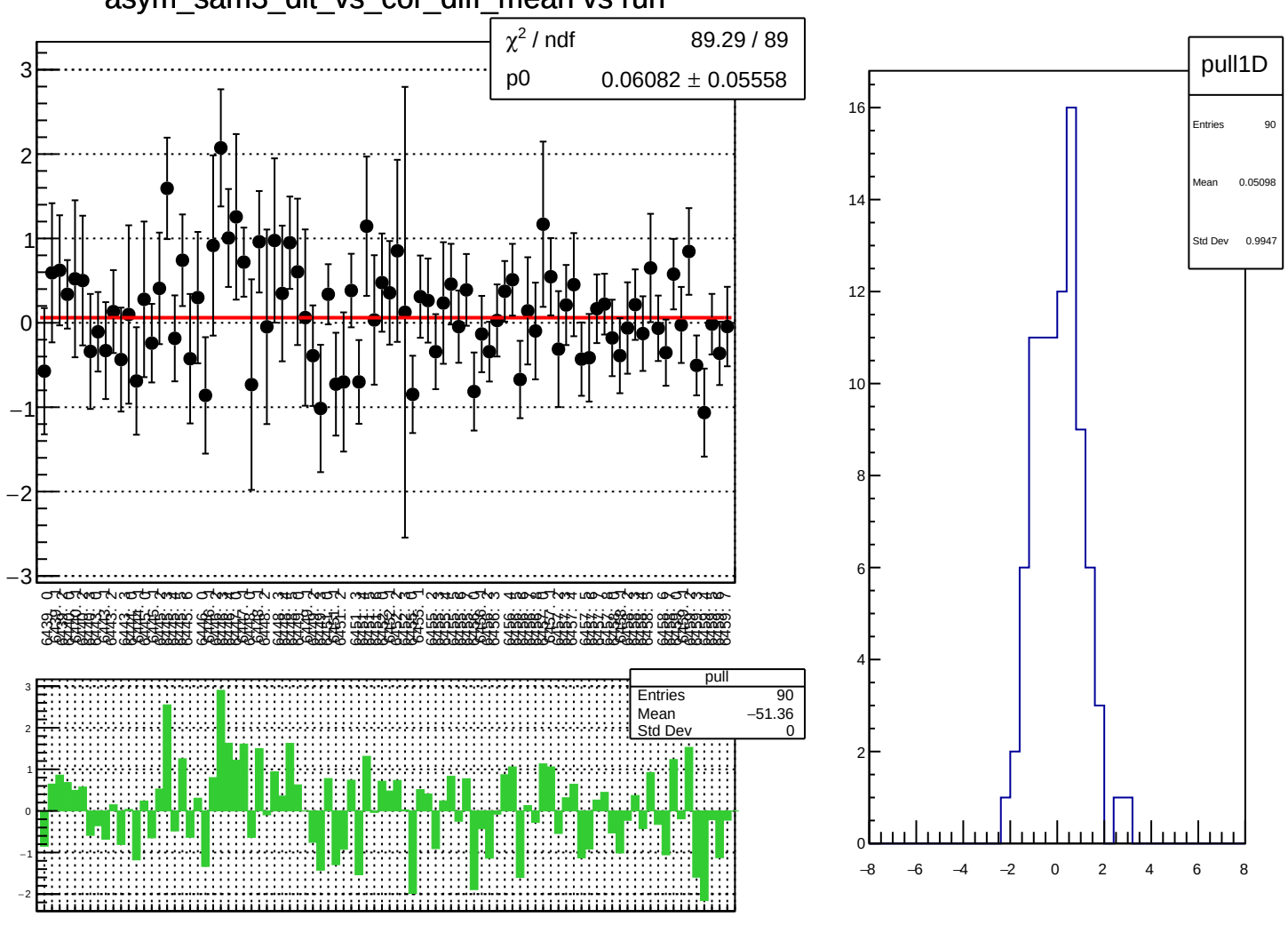

pull1D
Entries 90
Mean 0.004983
Std Dev 0.895
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

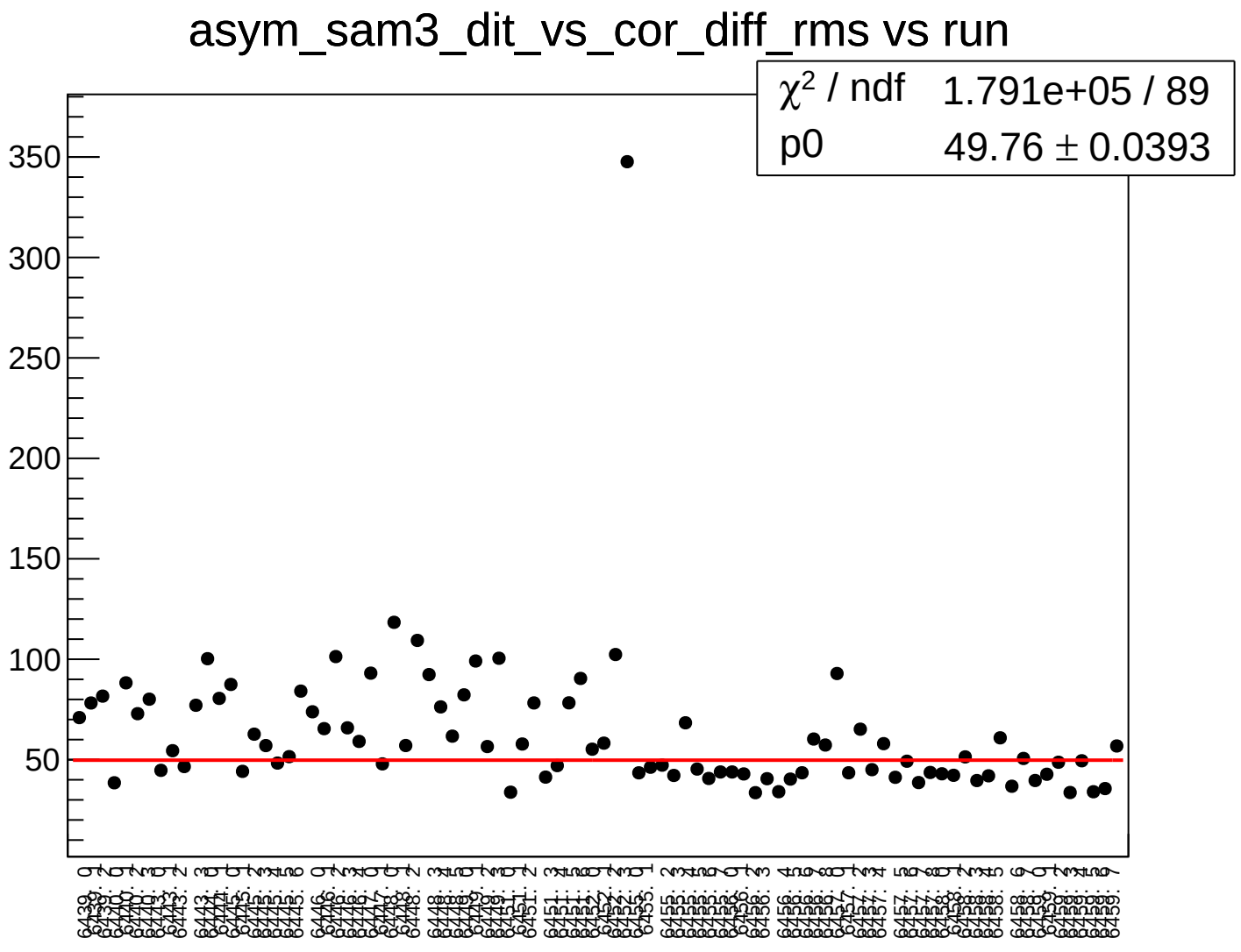

asym_sam3_rms vs run
χ² / ndf 1.716e+04 / 89
p0 1321 ± 0.9942
1800
1700
1600
1500
1400
1300
1200
1100
1000

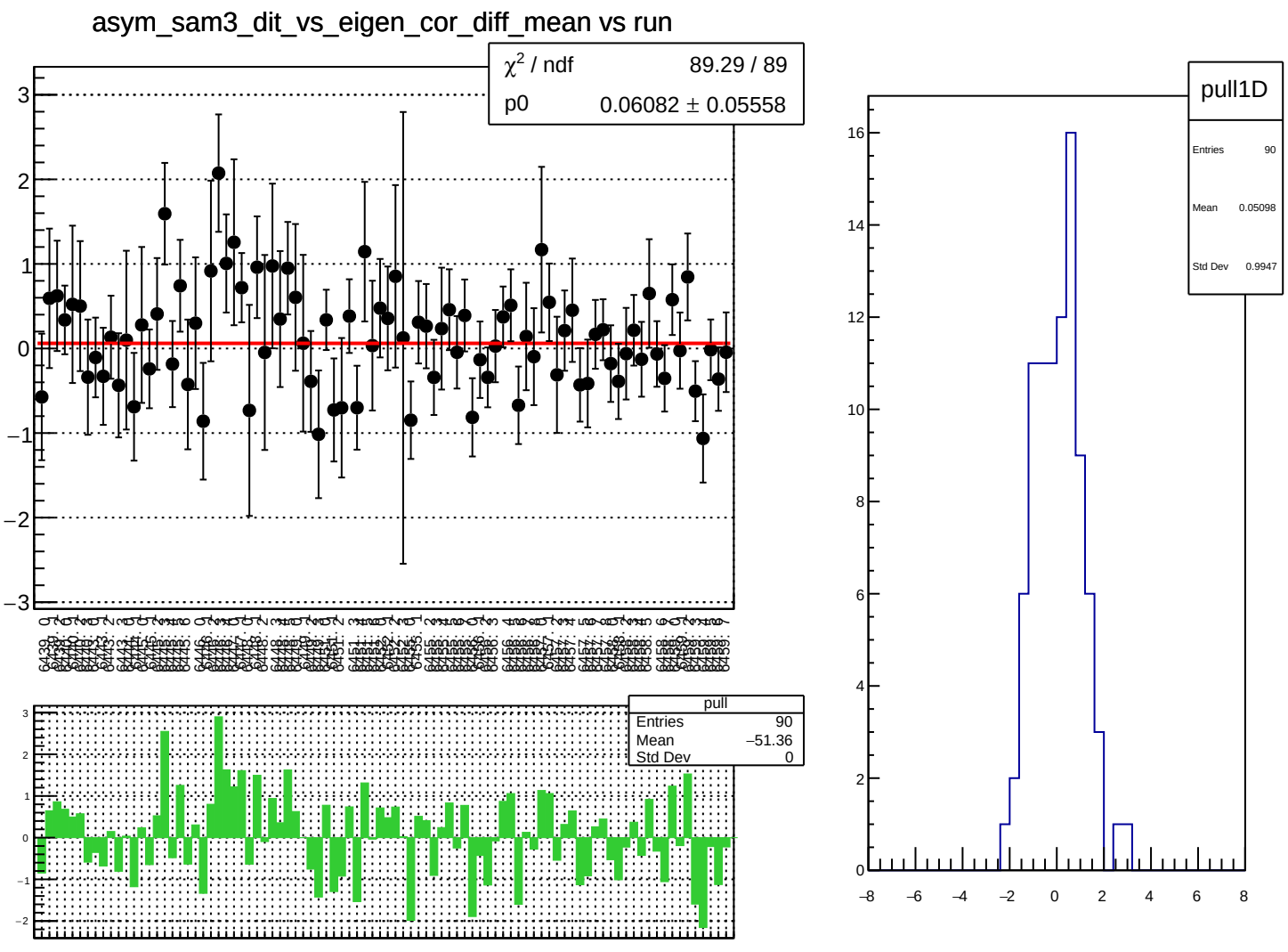

asym_sam3_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 67.32 / 89
p0 3.26e−14 ± 4.297e−14
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 90
Mean 36.17
Std Dev 35.45
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

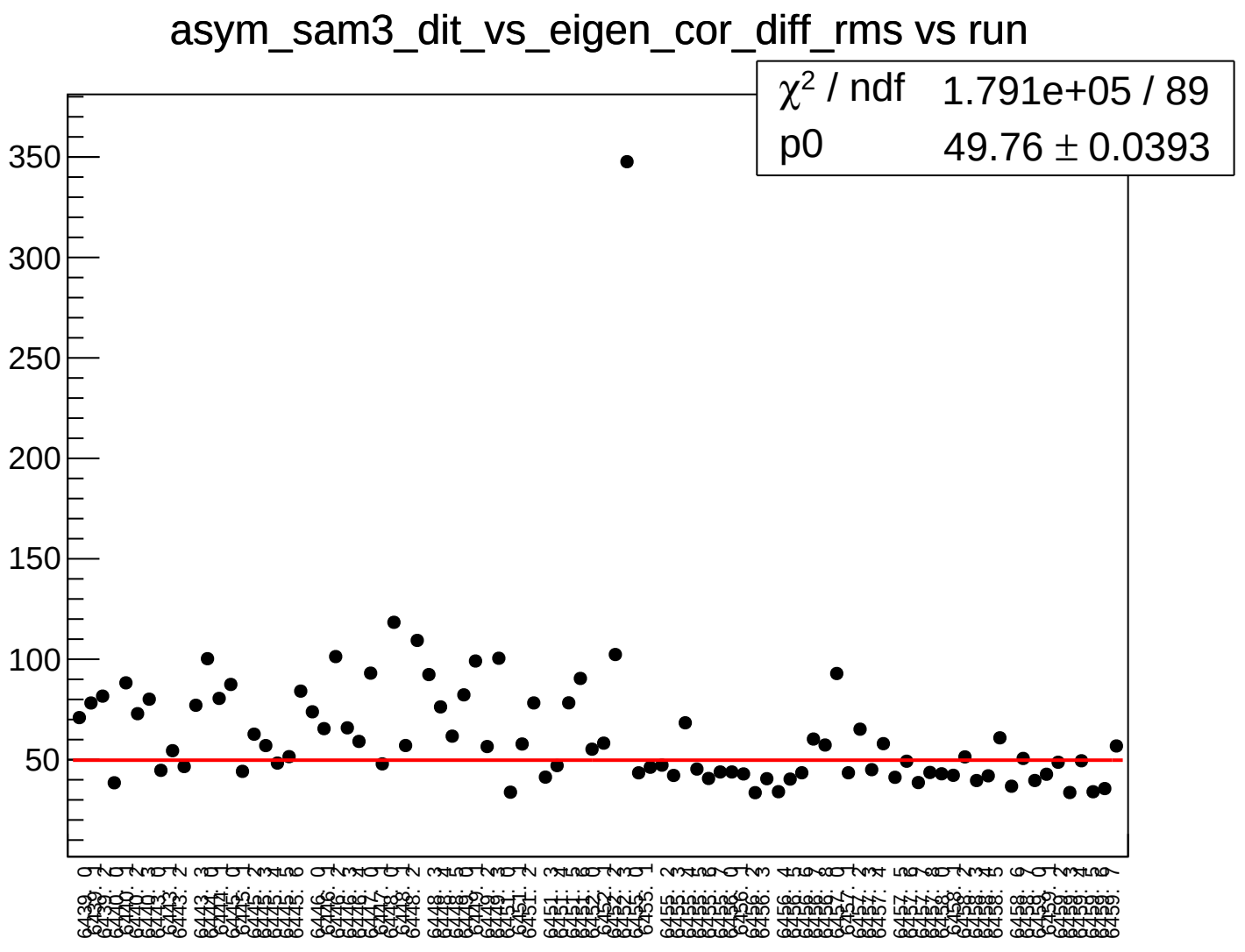

pull1D
Entries 90
Mean −0.06239
Std Dev 0.8626
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

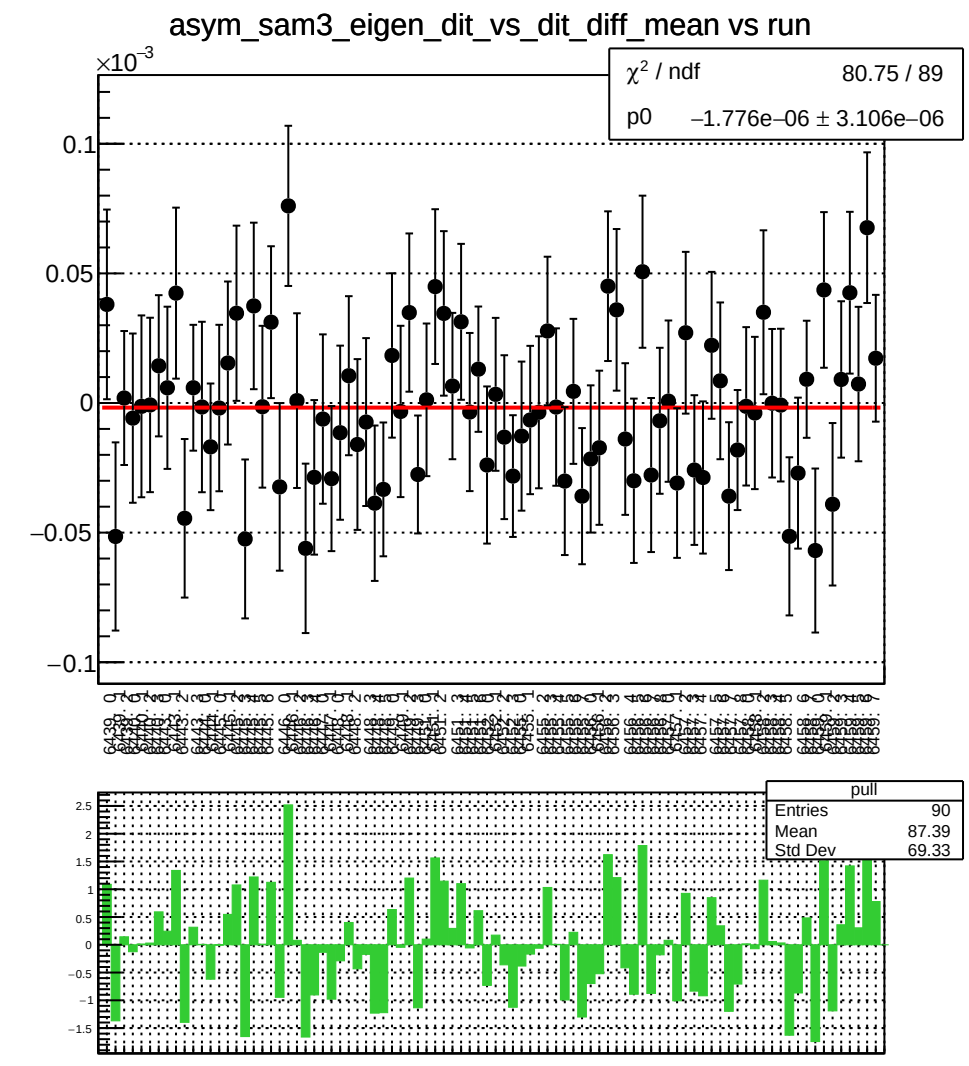

asym_sam3_reg_vs_cor_diff_rms vs run
χ² / ndf 9.44e+05 / 89
p0 2.782e−11 ± 3.039e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

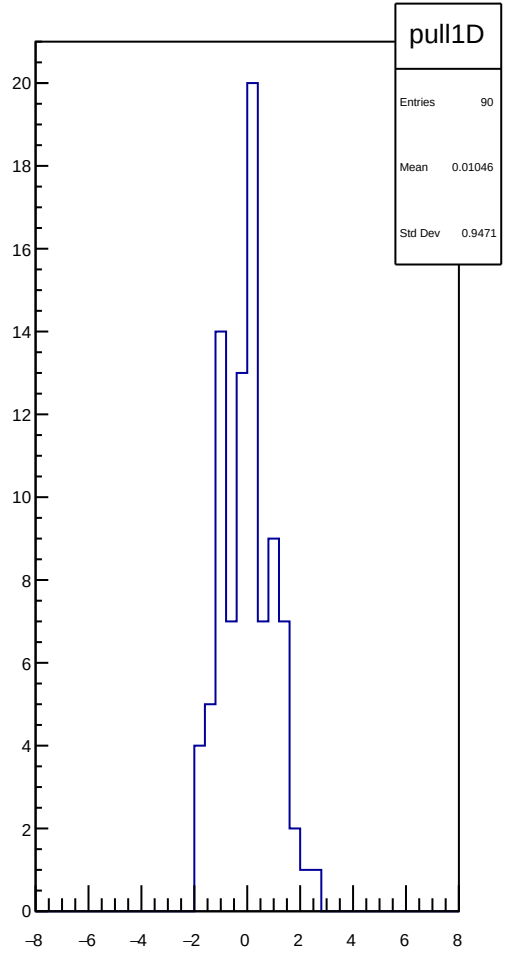

asym_sam3_dit_vs_cor_diff_mean vs run
χ² / ndf 89.29 / 89
p0 0.06082 ± 0.05558
pull
Entries 90
Mean −51.36
Std Dev 0
pull1D
Entries 90
Mean 0.05098
Std Dev 0.9947

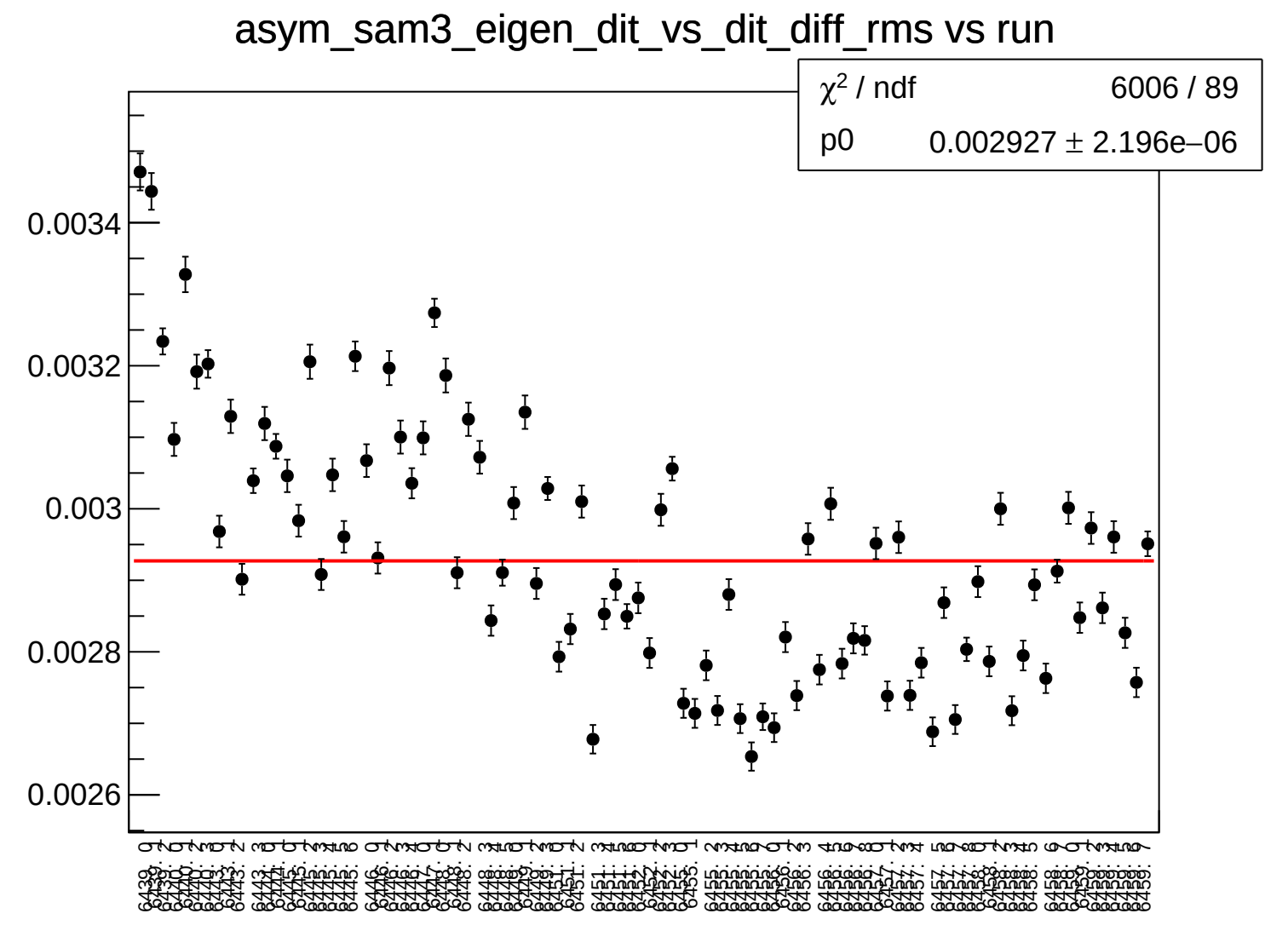

asym_sam3_dit_vs_cor_diff_rms vs run
χ² / ndf 1.791e+05 / 89
p0 49.76 ± 0.0393
350
300
250
200
150
100
50

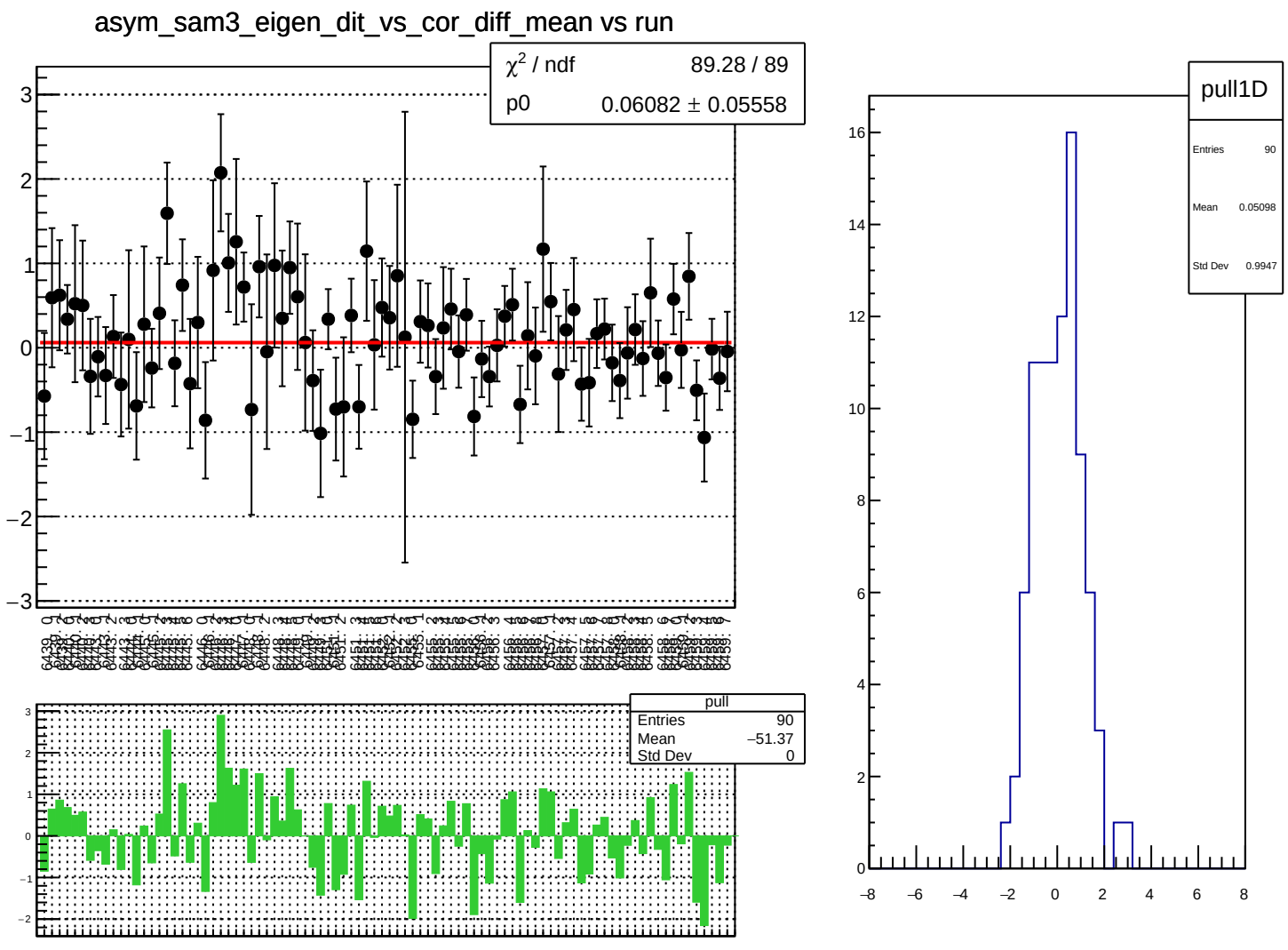

asym_sam3_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.29 / 89
p0 0.06082 ± 0.05558
pull
Entries 90
Mean −51.36
Std Dev 0
pull1D
Entries 90
Mean 0.05098
Std Dev 0.9947

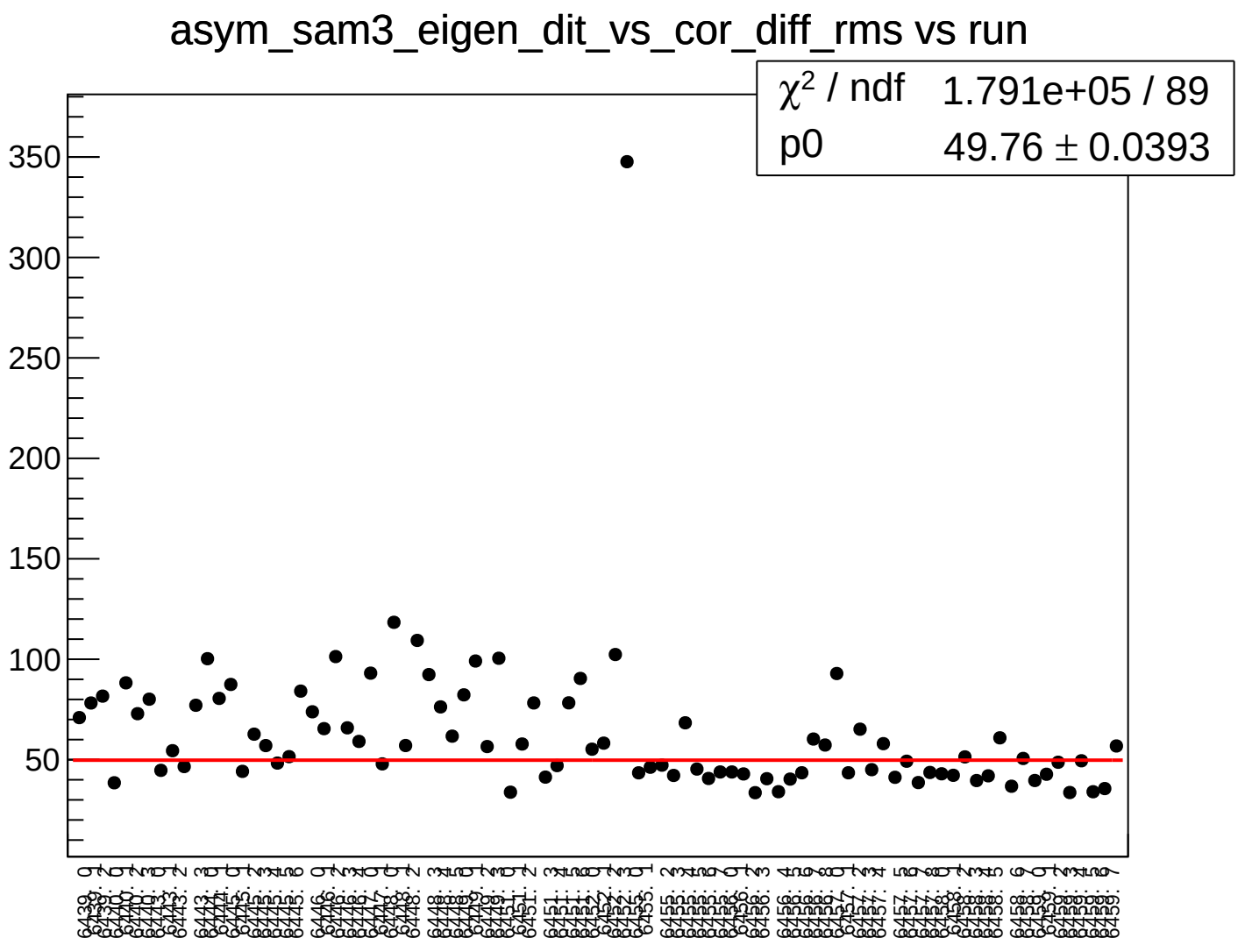

asym_sam3_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.791e+05 / 89
p0 49.76 ± 0.0393
350
300
250
200
150
100
50

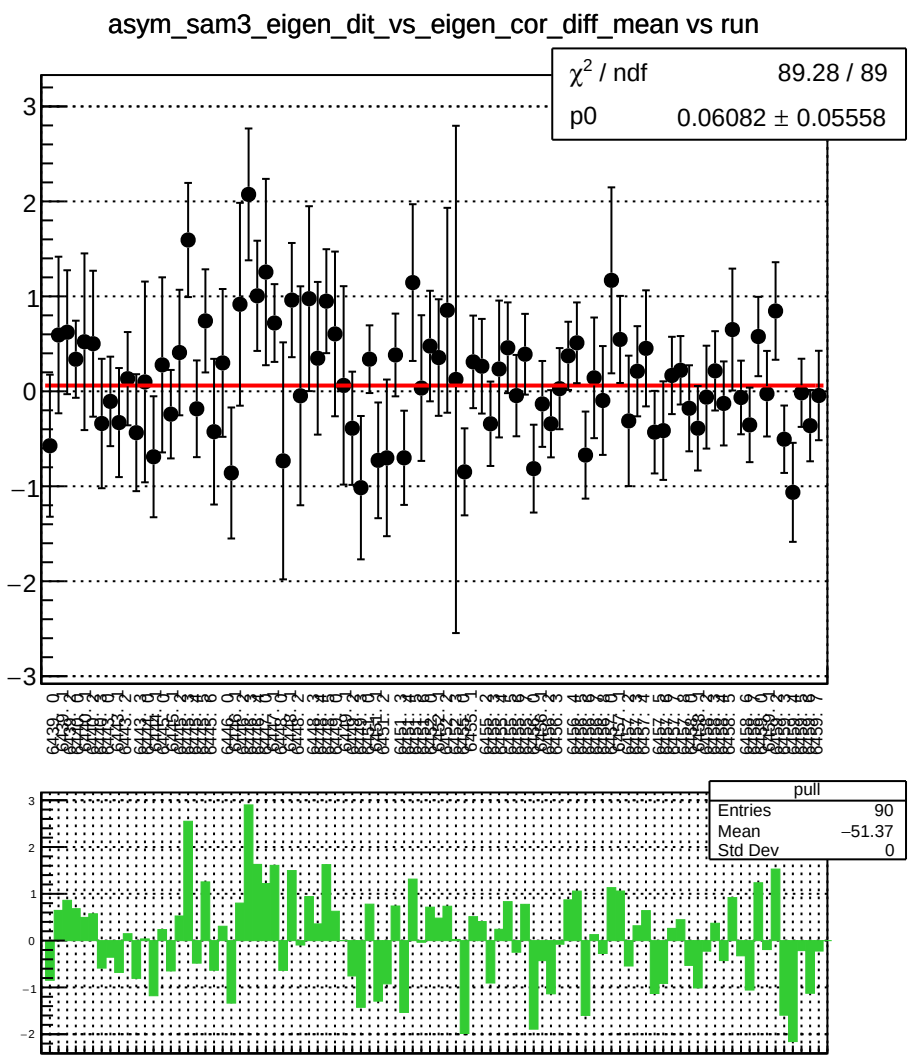

asym_sam3_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 80.75 / 89
p0 −1.776e−06 ± 3.106e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 90
Mean 87.39
Std Dev 69.33
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

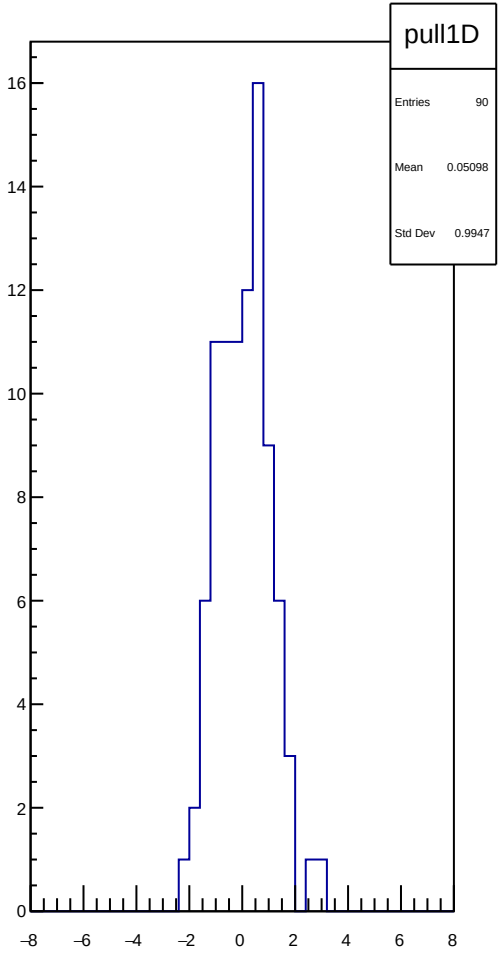

pull1D
Entries 90
Mean 0.01046
Std Dev 0.9471
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

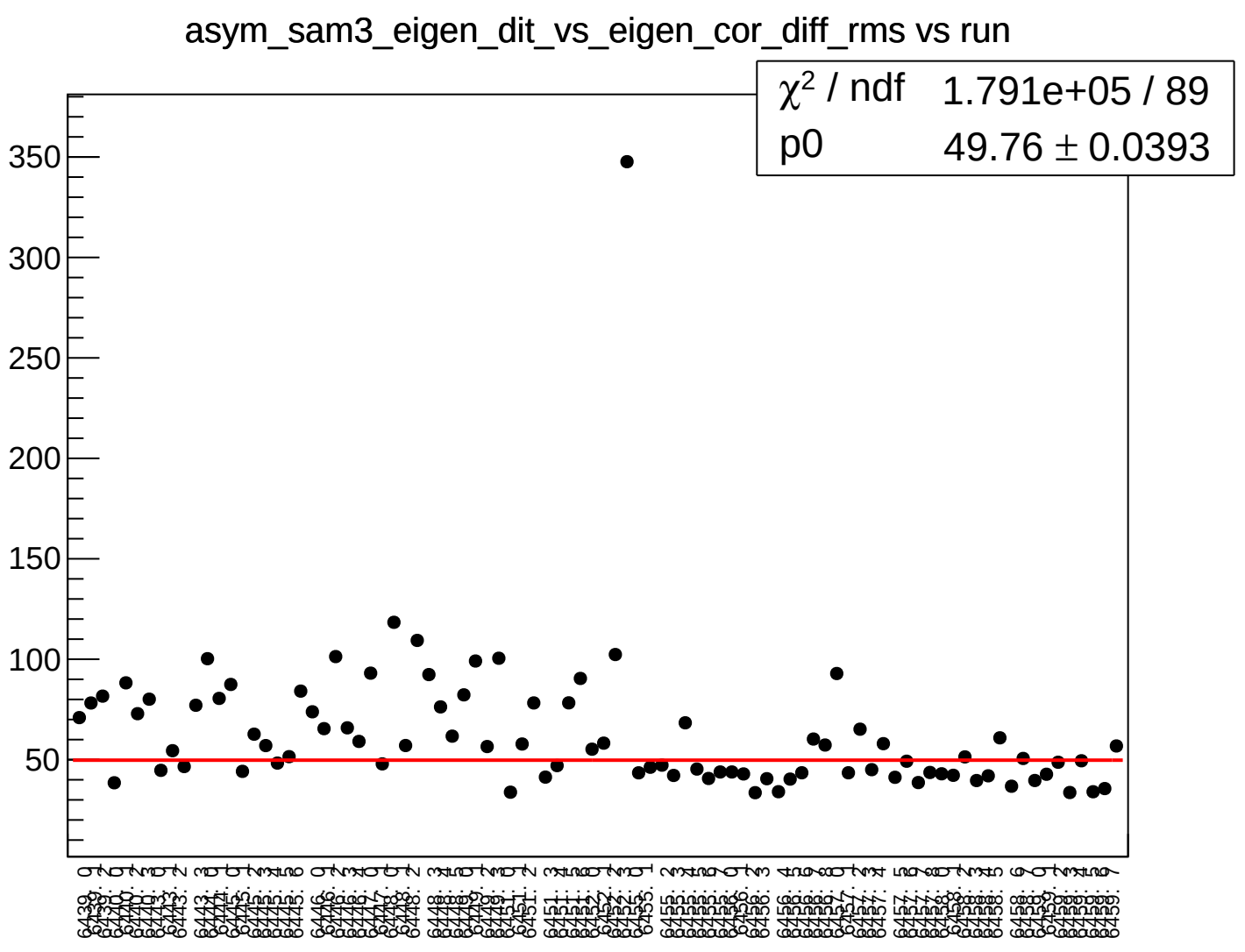

asym_sam3_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6006 / 89
p0 0.002927 ± 2.196e−06
0.0034
0.0032
0.003
0.0028
0.0026

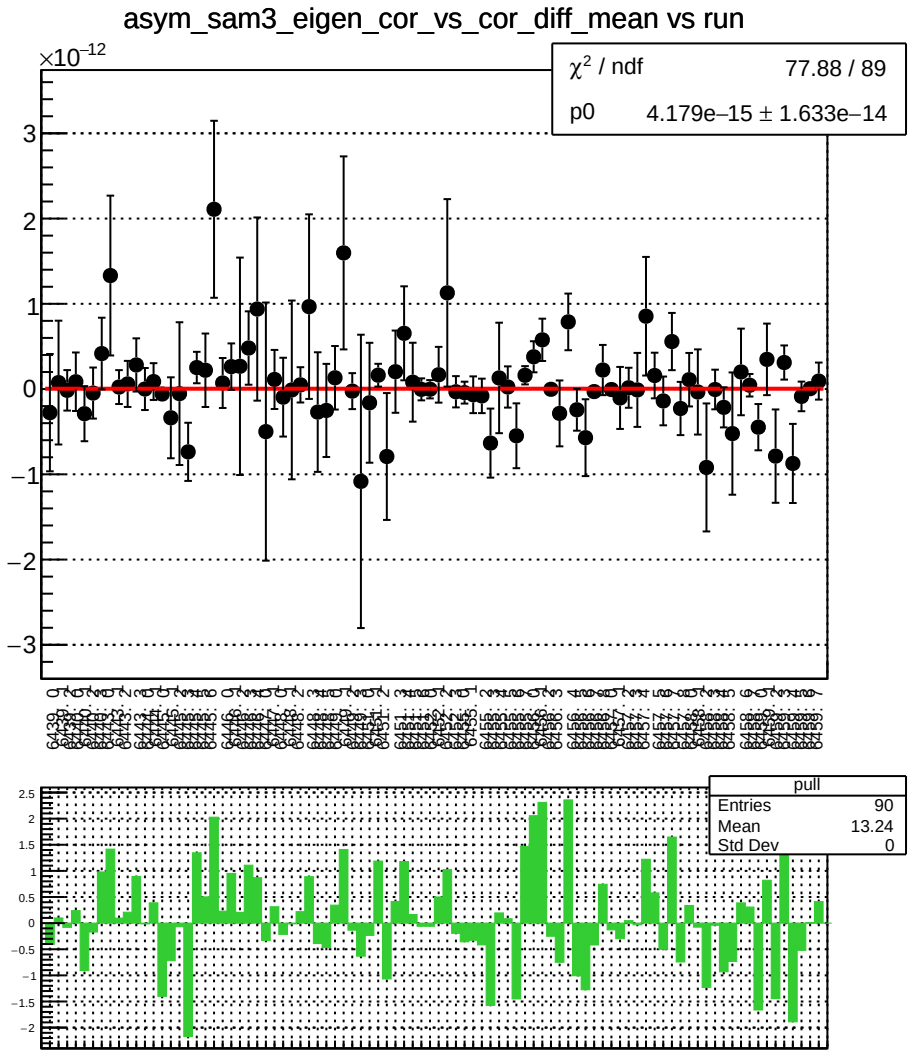

asym_sam3_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.28 / 89
p0 0.06082 ± 0.05558
pull
Entries 90
Mean −51.37
Std Dev 0
pull1D
Entries 90
Mean 0.05098
Std Dev 0.9947

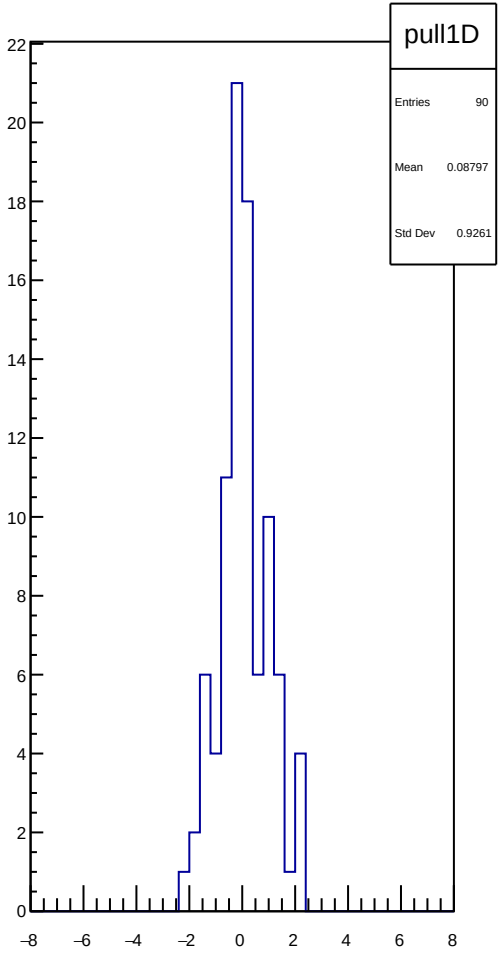

asym_sam3_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.791e+05 / 89
p0 49.76 ± 0.0393
350
300
250
200
150
100
50

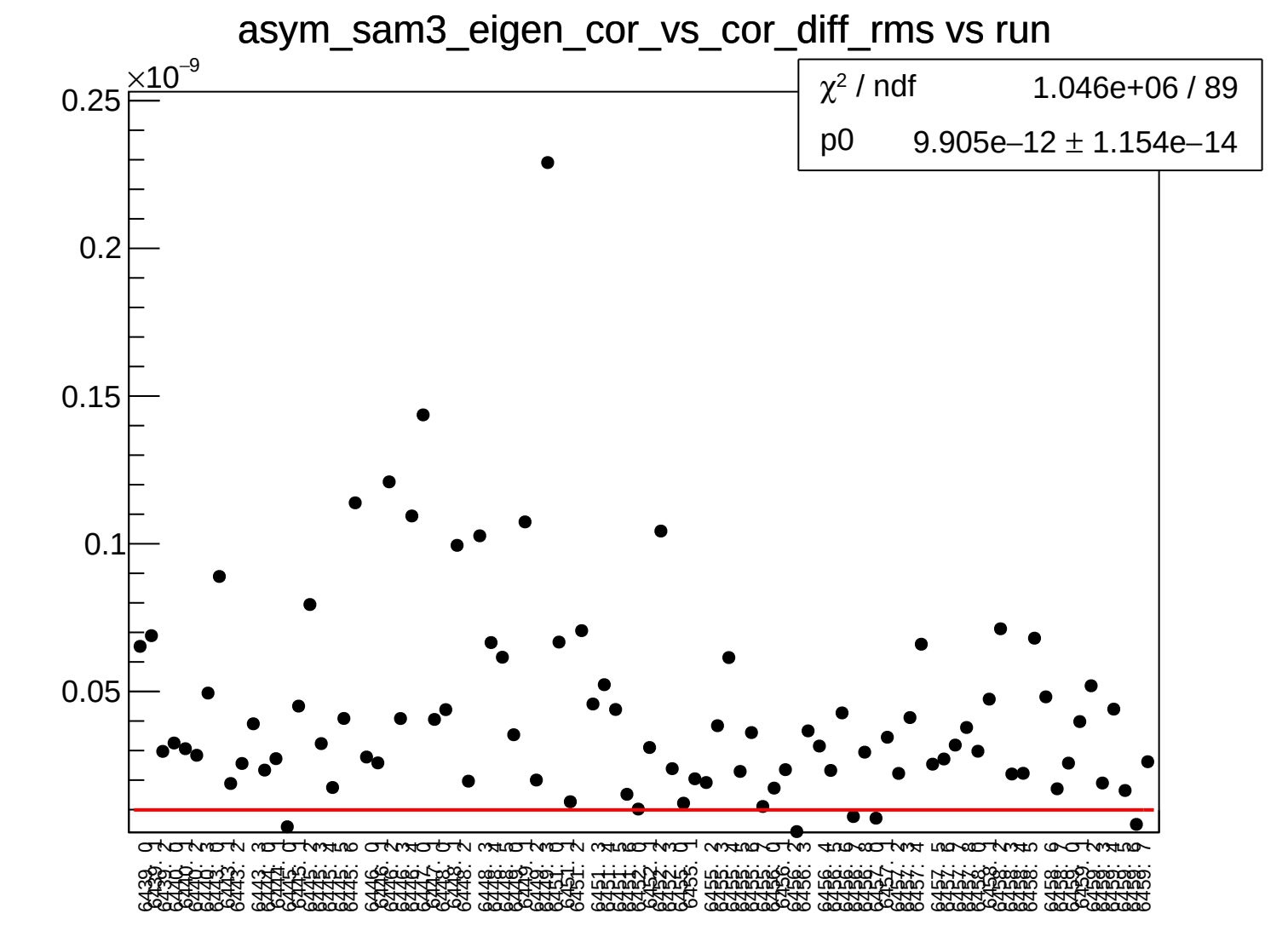

asym_sam3_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.28 / 89
p0 0.06082 ± 0.05558
pull
Entries 90
Mean −51.37
Std Dev 0

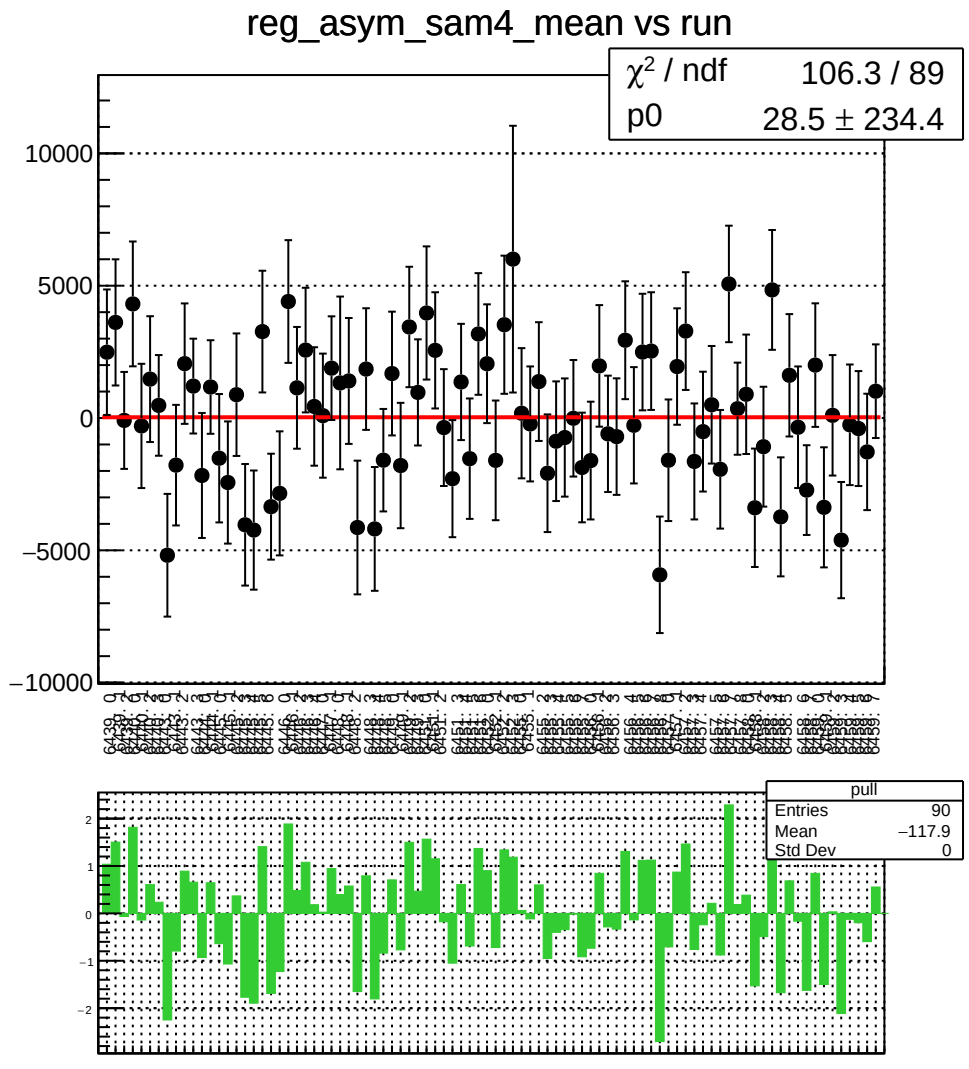

pull1D
Entries 90
Mean 0.05098
Std Dev 0.9947

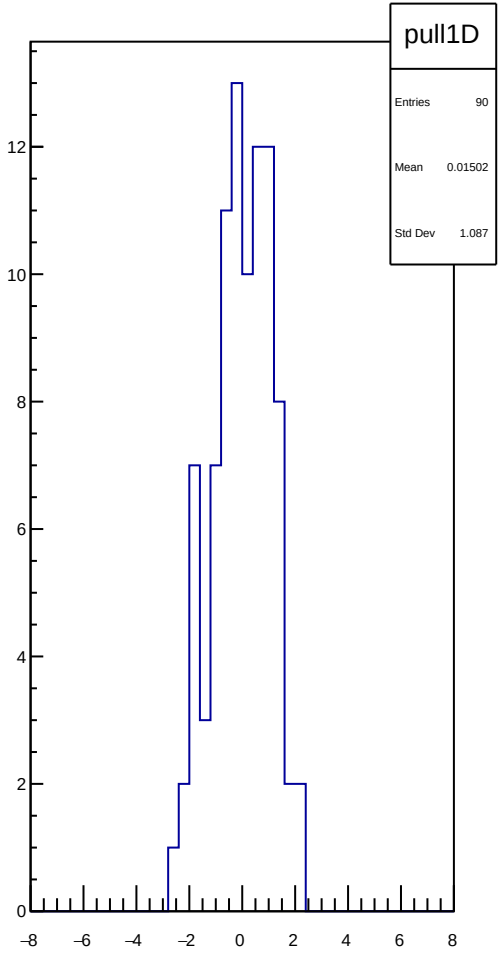

asym_sam3_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.791e+05 / 89
p0 49.76 ± 0.0393
350
300
250
200
150
100
50

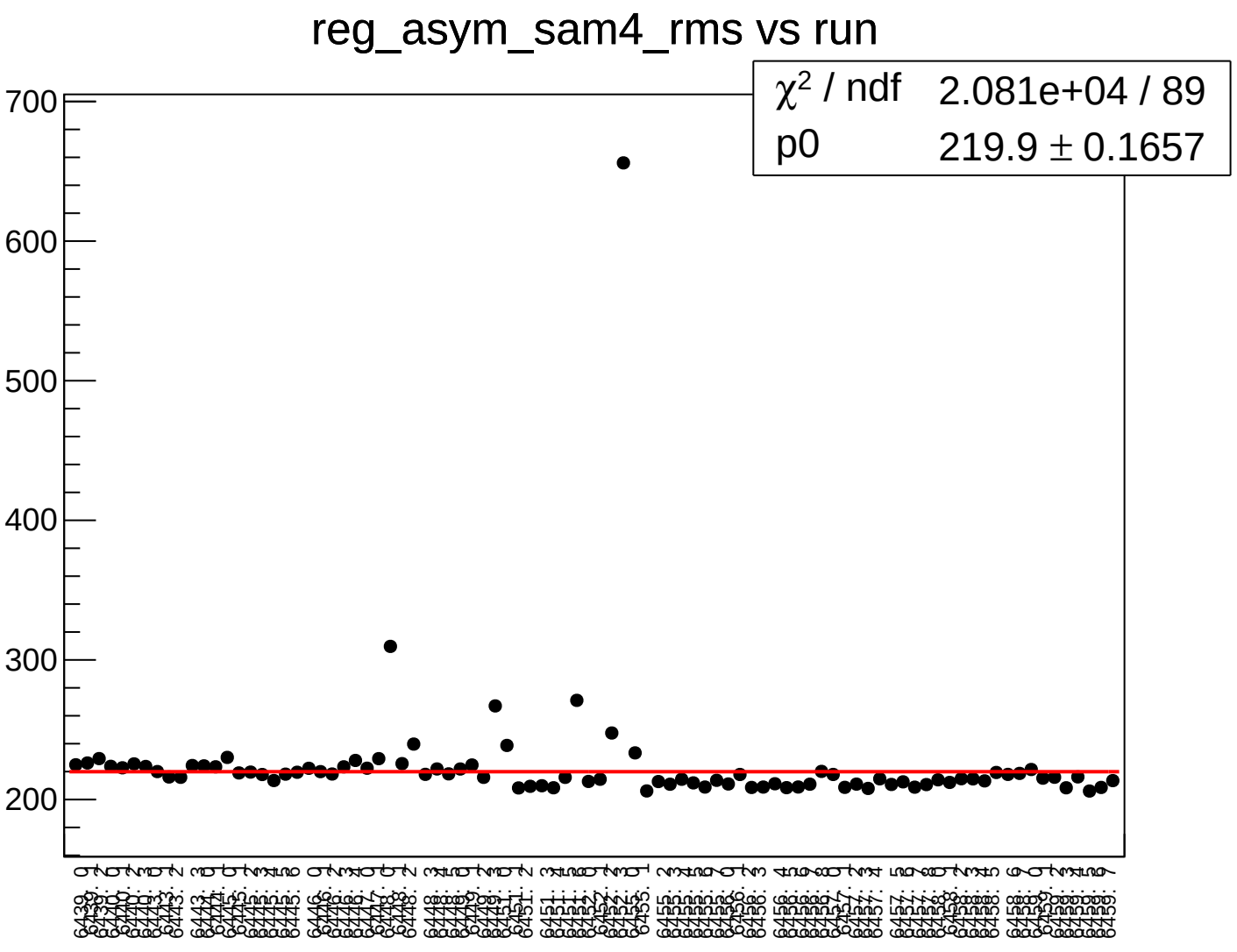

asym_sam3_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.88 / 89
p0 4.179e−15 ± 1.633e−14
pull
Entries 90
Mean 13.24
Std Dev 0

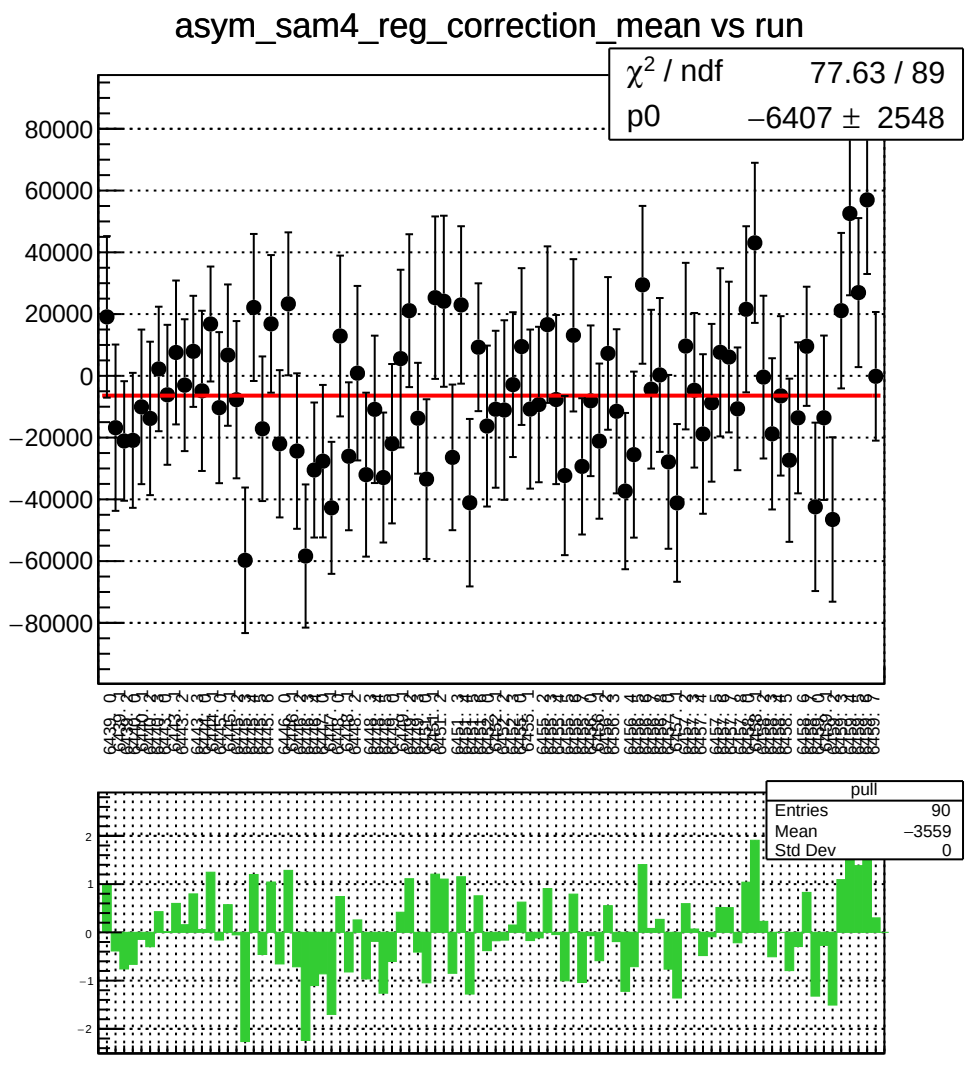

pull1D
Entries 90
Mean 0.08797
Std Dev 0.9261

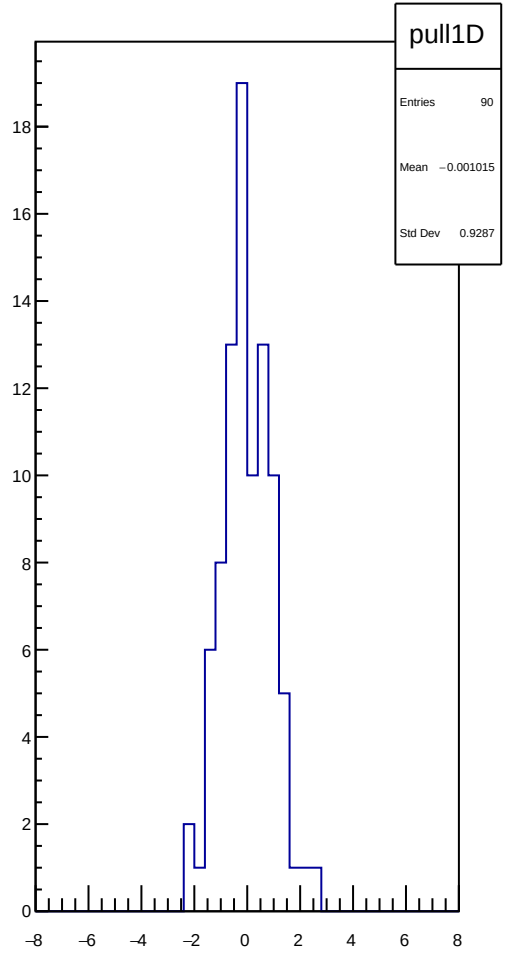

asym_sam3_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.25
0.2
0.15
0.1
0.05
χ² / ndf 1.046e+06 / 89
p0 9.905e−12 ± 1.154e−14

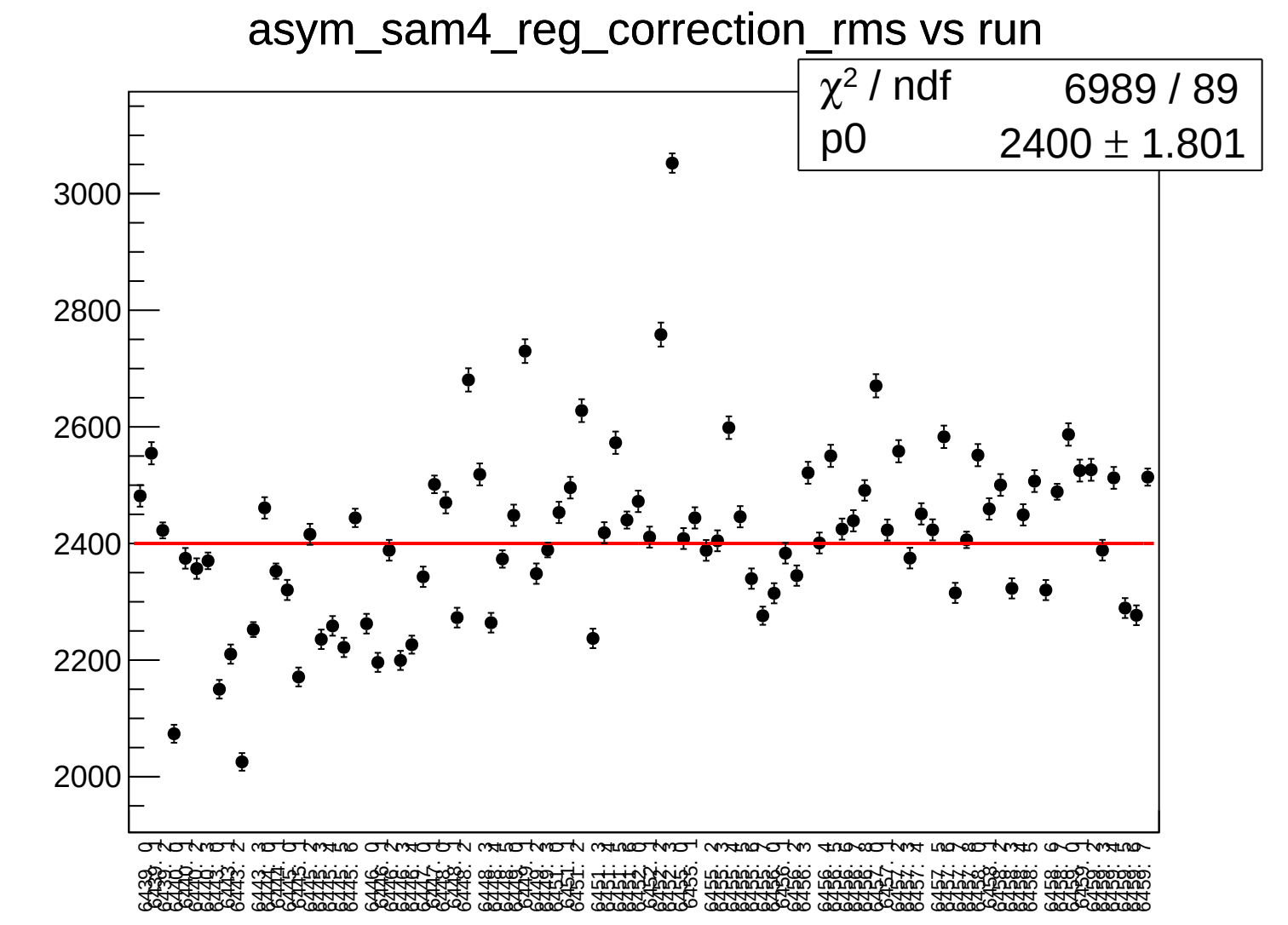

reg_asym_sam4_mean vs run
χ² / ndf 106.3 / 89
p0 28.5 ± 234.4
10000
5000
0
−5000
−10000
pull
Entries 90
Mean −117.9
Std Dev 0
2
1
0
−1
−2

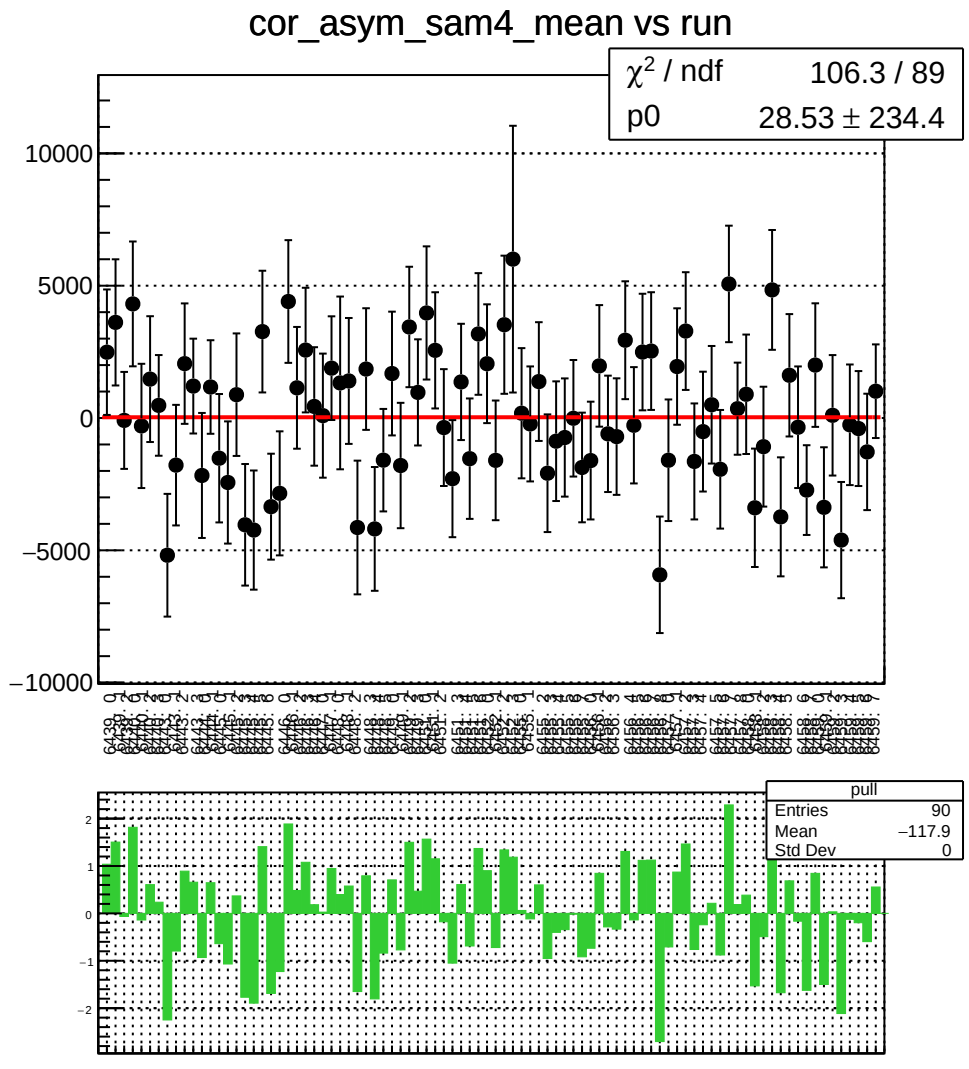

pull1D
Entries 90
Mean 0.01502
Std Dev 1.087
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

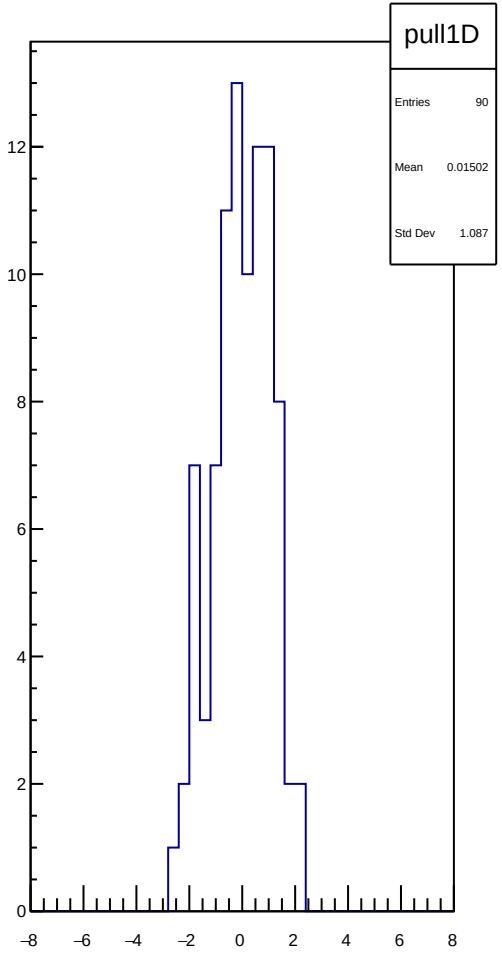

reg_asym_sam4_rms vs run
χ² / ndf 2.081e+04 / 89
p0 219.9 ± 0.1657
700
600
500
400
300
200

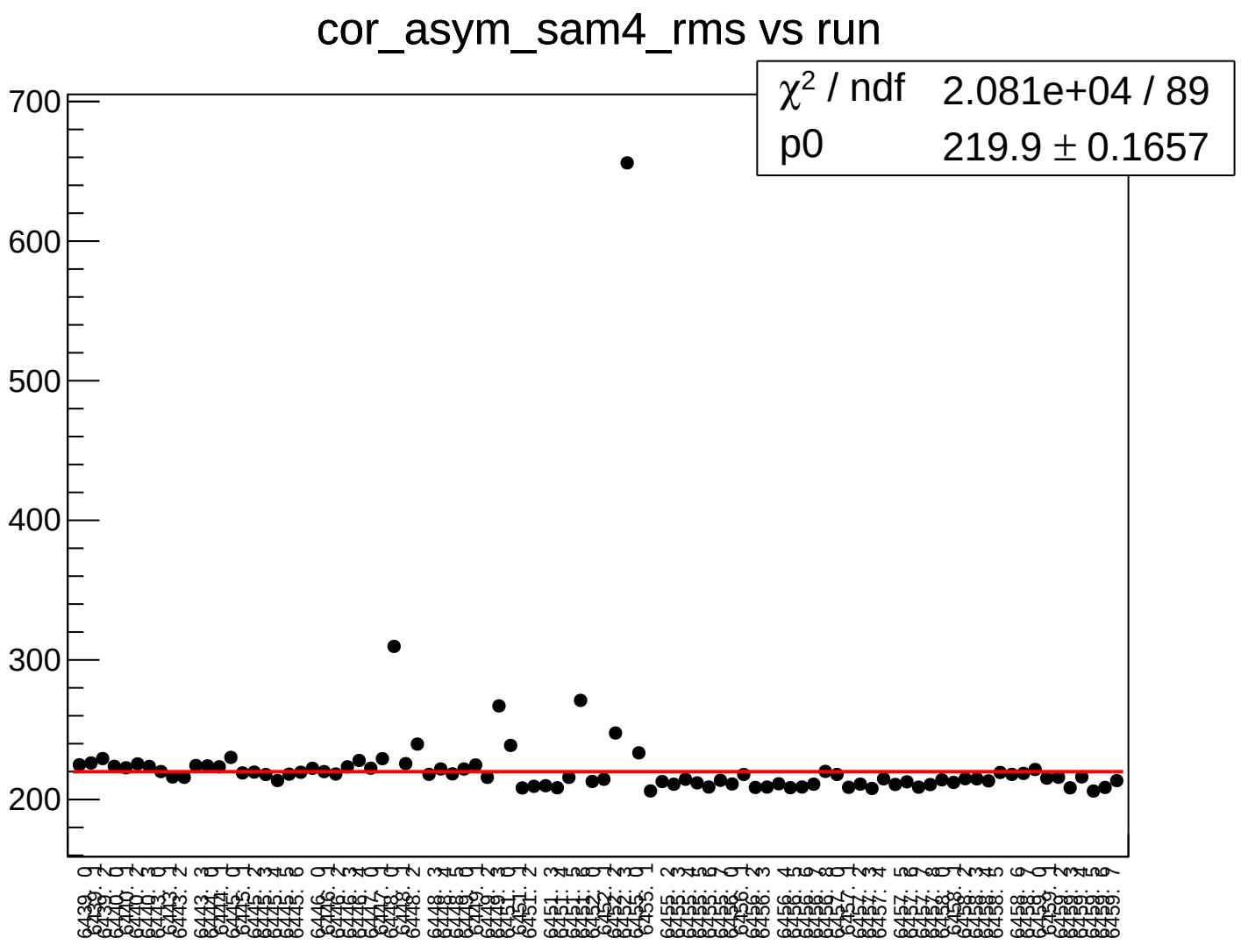

asym_sam4_reg_correction_mean vs run
χ² / ndf 77.63 / 89
p0 −6407 ± 2548
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 90
Mean −3559
Std Dev 0
2
1
0
−1
−2

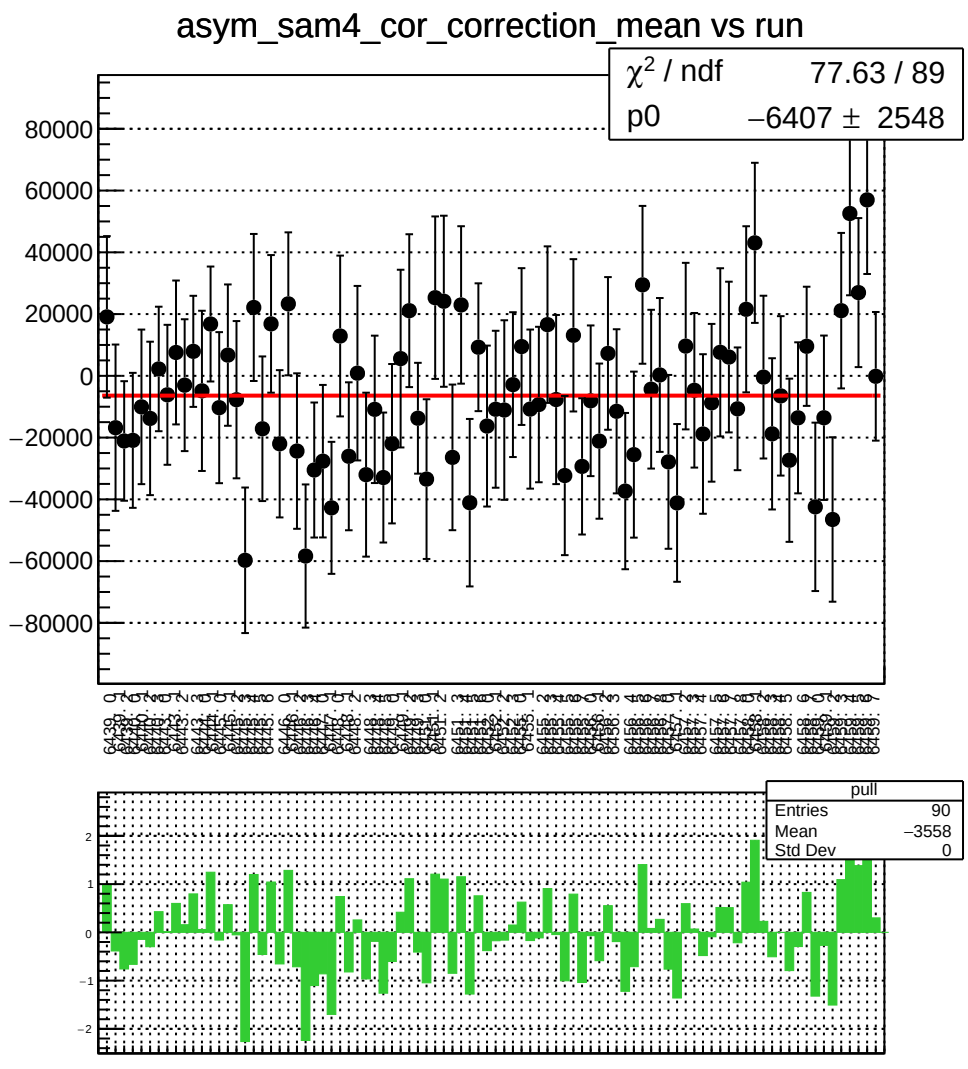

pull1D
Entries 90
Mean −0.001015
Std Dev 0.9287
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

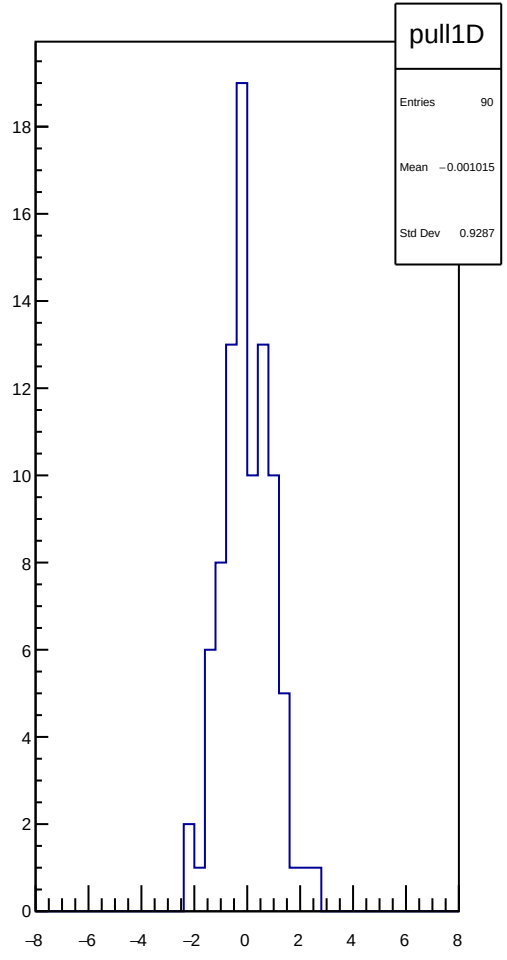

asym_sam4_reg_correction_rms vs run
χ² / ndf 6989 / 89
p0 2400 ± 1.801
3000
2800
2600
2400
2200
2000

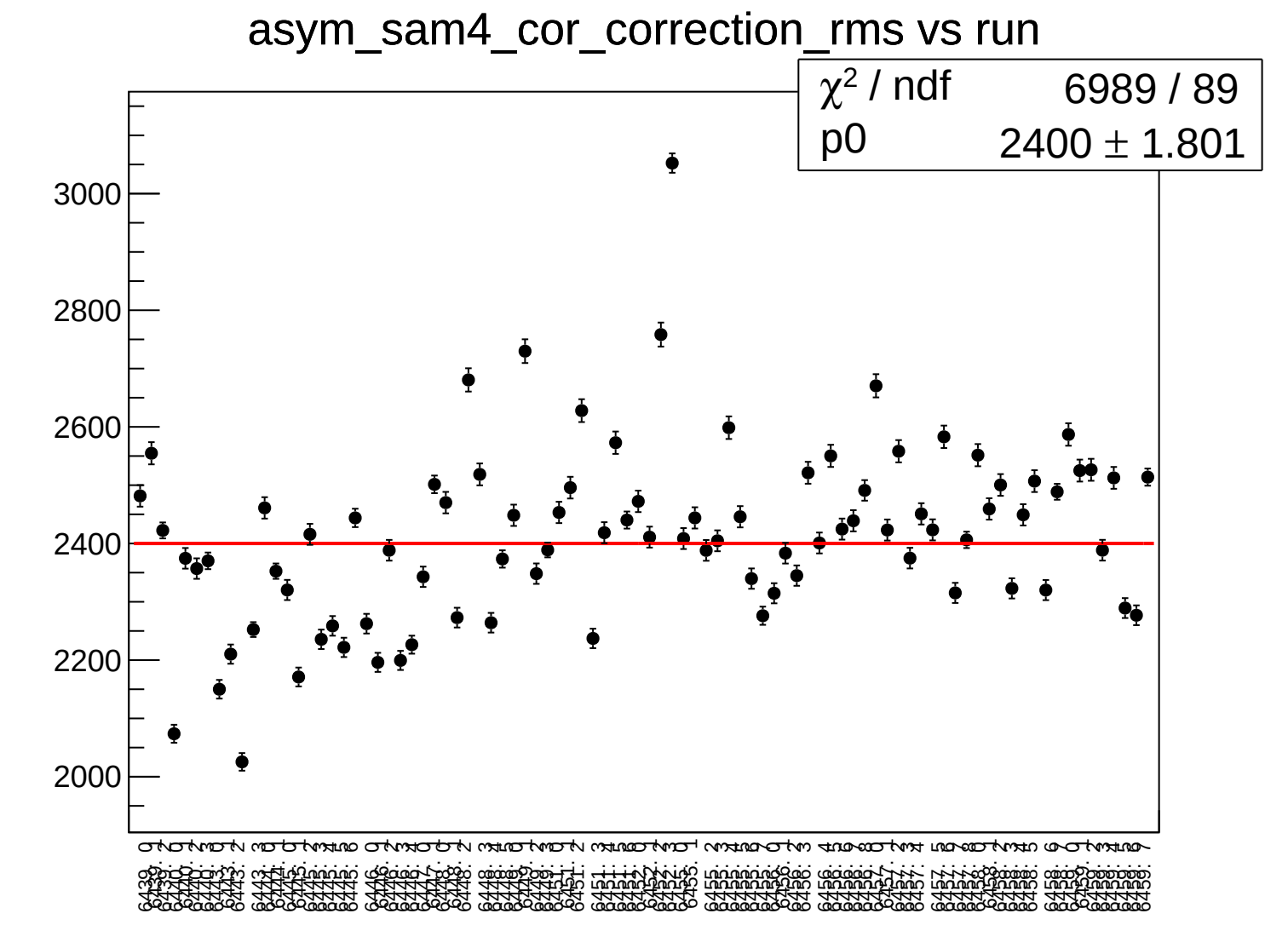

cor_asym_sam4_mean vs run
χ² / ndf 106.3 / 89
p0 28.53 ± 234.4
10000
5000
0
−5000
−10000
pull
Entries 90
Mean −117.9
Std Dev 0
2
1
0
−1
−2

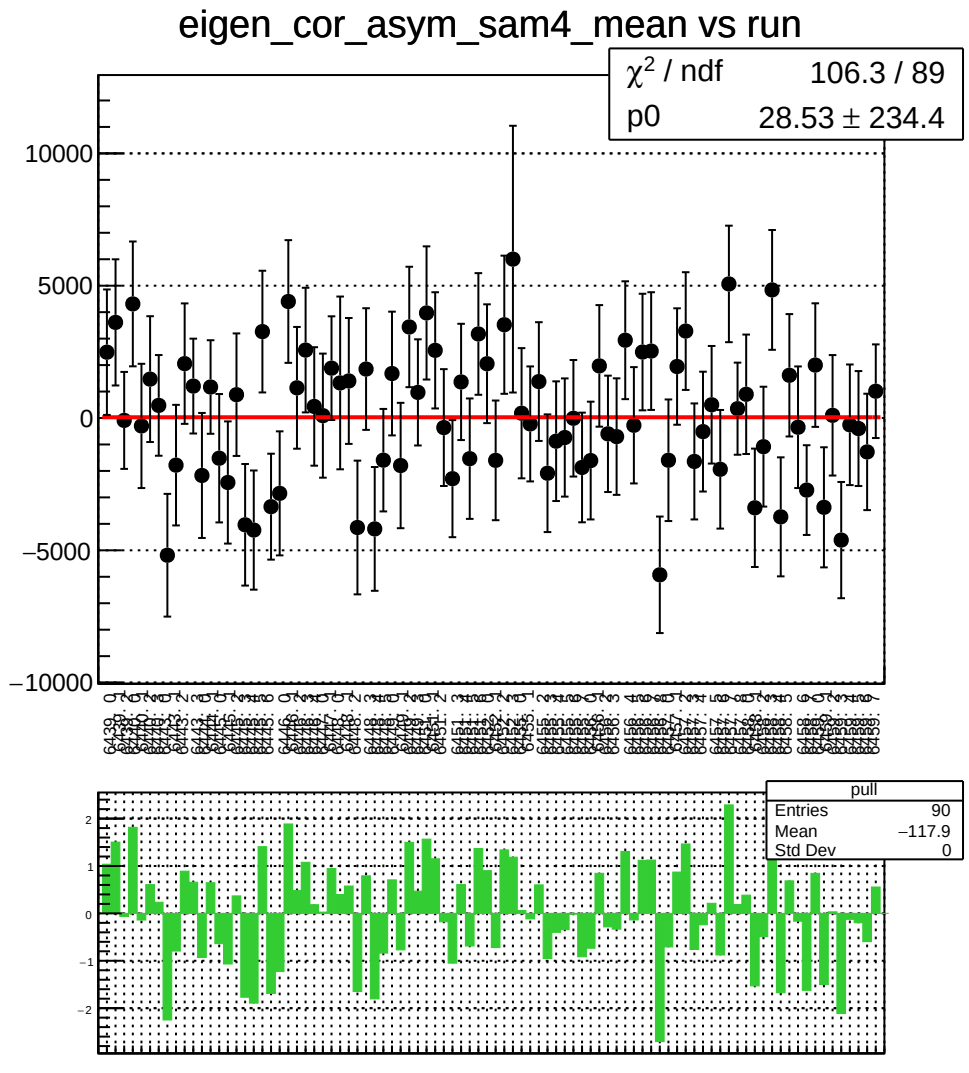

pull1D
Entries 90
Mean 0.01502
Std Dev 1.087
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

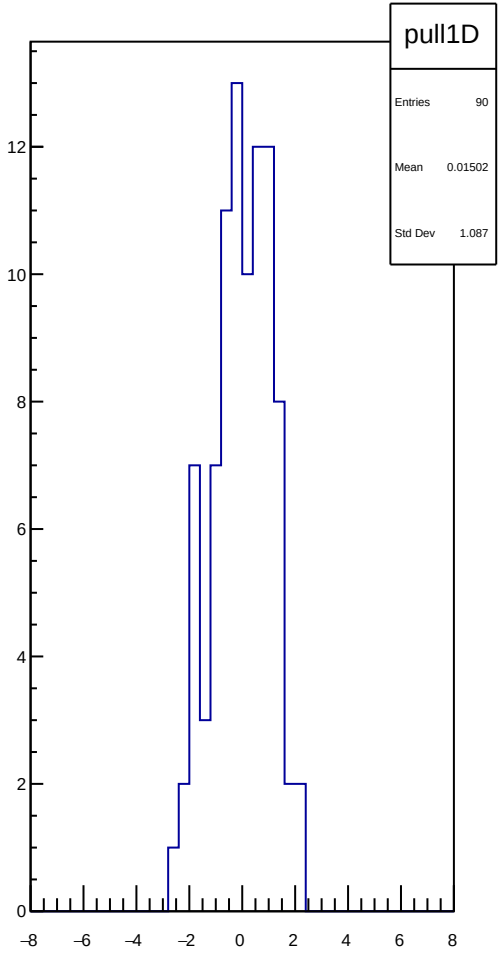

cor_asym_sam4_rms vs run
χ² / ndf 2.081e+04 / 89
p0 219.9 ± 0.1657
700
600
500
400
300
200

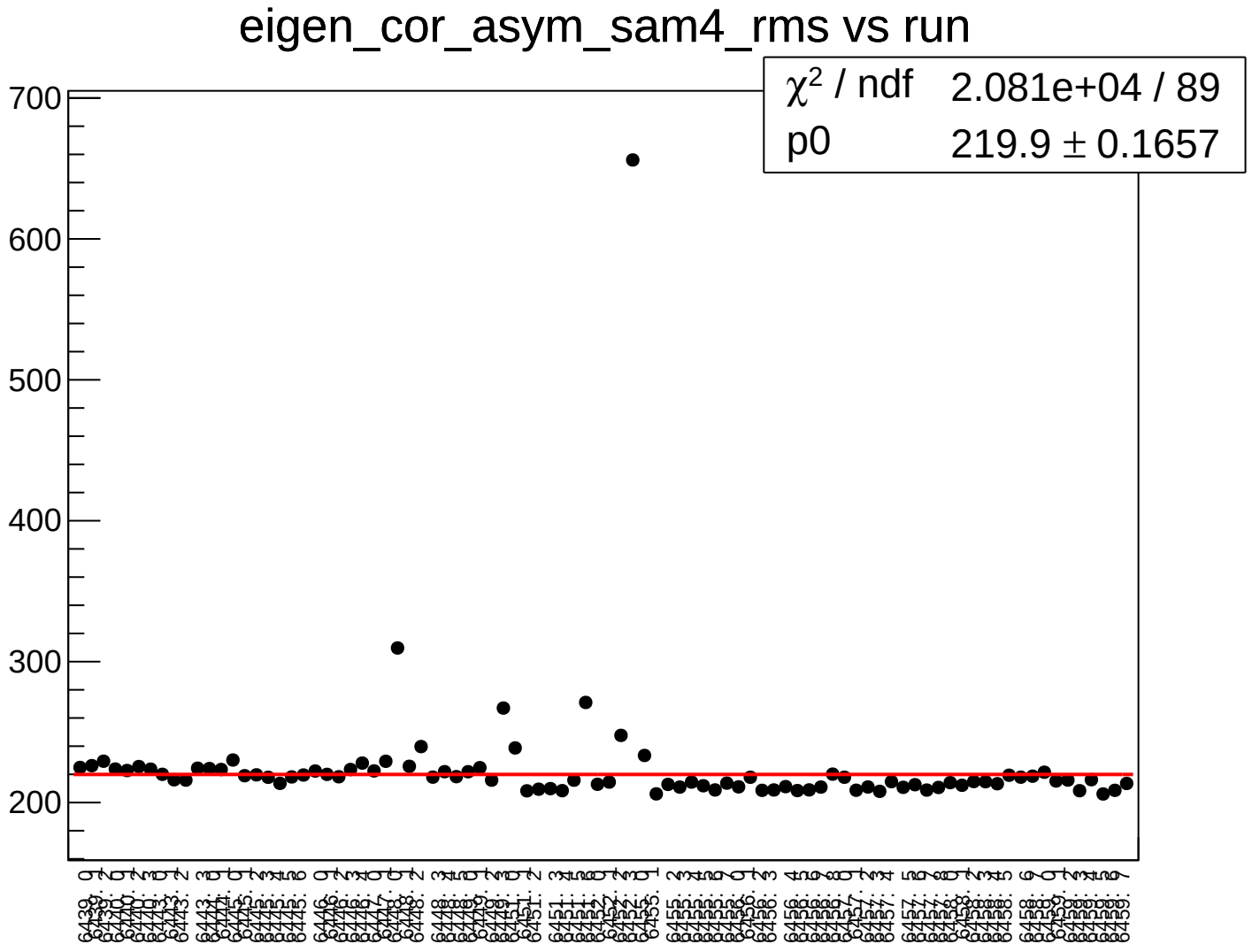

asym_sam4_cor_correction_mean vs run
χ² / ndf 77.63 / 89
p0 −6407 ± 2548
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 90
Mean −3558
Std Dev 0
2
1
0
−1
−2

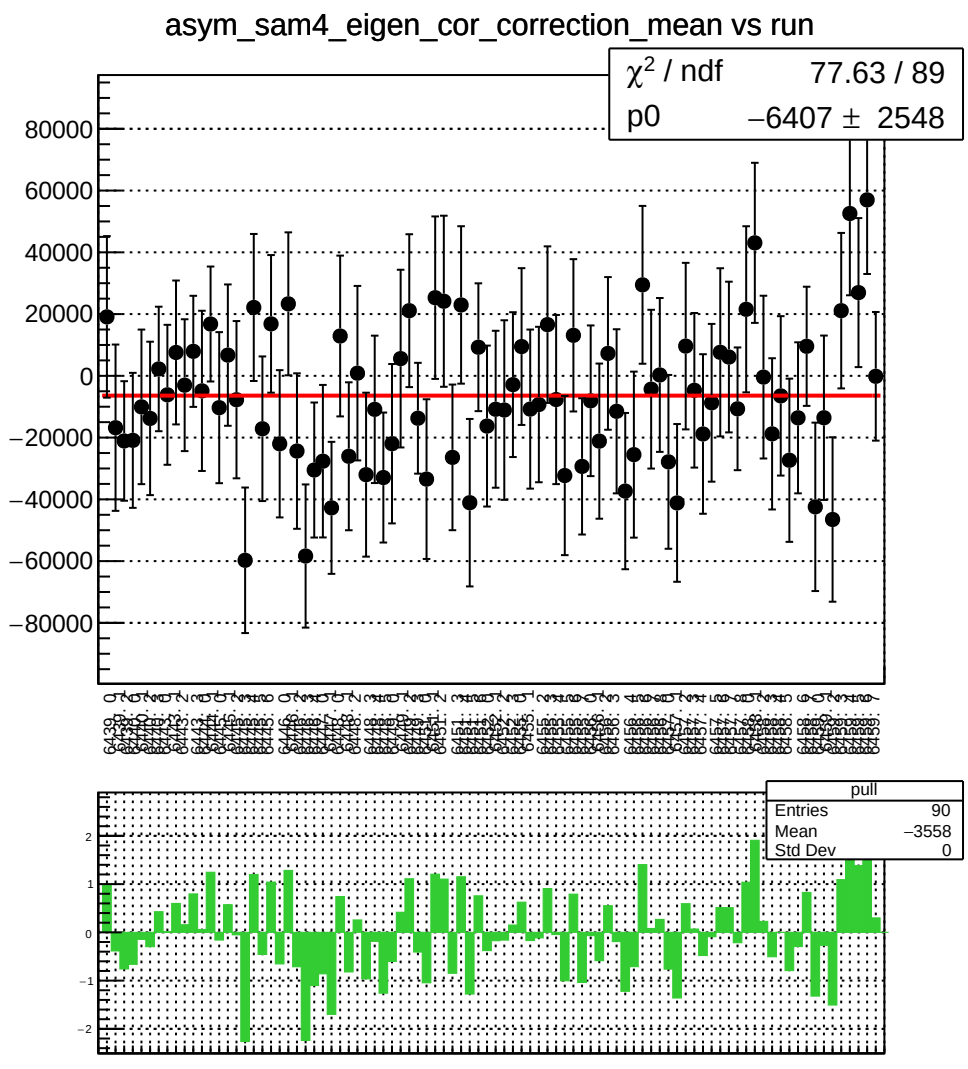

pull1D
Entries 90
Mean −0.001015
Std Dev 0.9287
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

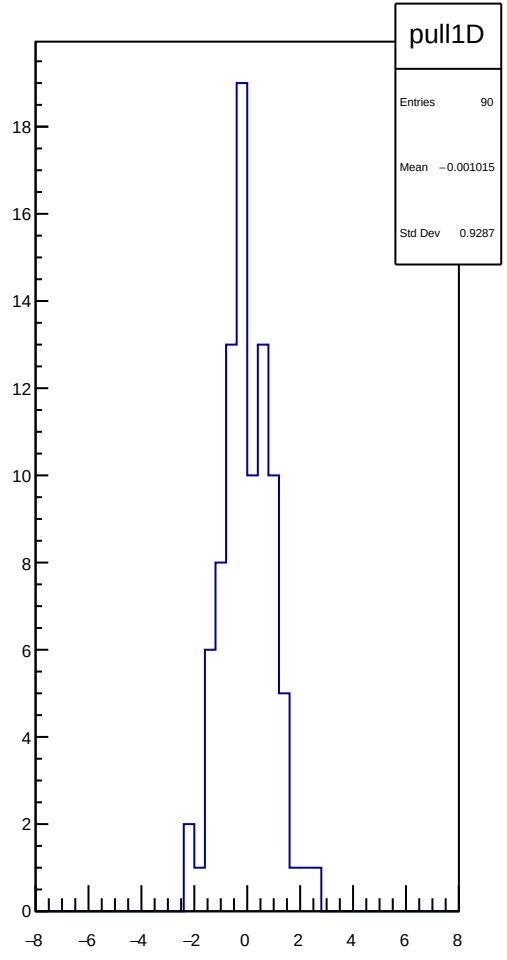

asym_sam4_cor_correction_rms vs run
χ² / ndf 6989 / 89
p0 2400 ± 1.801
3000
2800
2600
2400
2200
2000

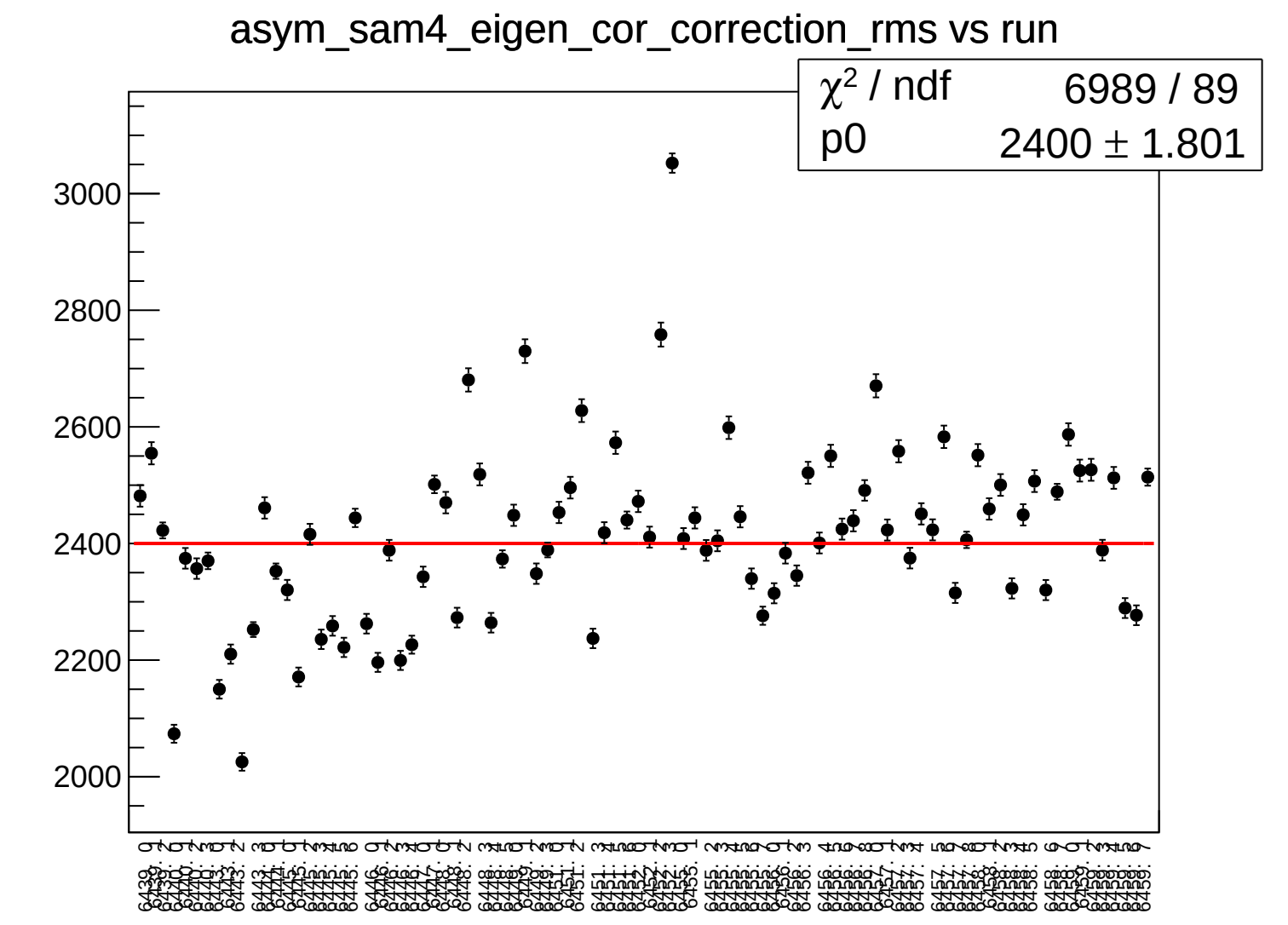

eigen_cor_asym_sam4_mean vs run
χ² / ndf 106.3 / 89
p0 28.53 ± 234.4
10000
5000
0
−5000
−10000
pull
Entries 90
Mean −117.9
Std Dev 0
2
1
0
−1
−2

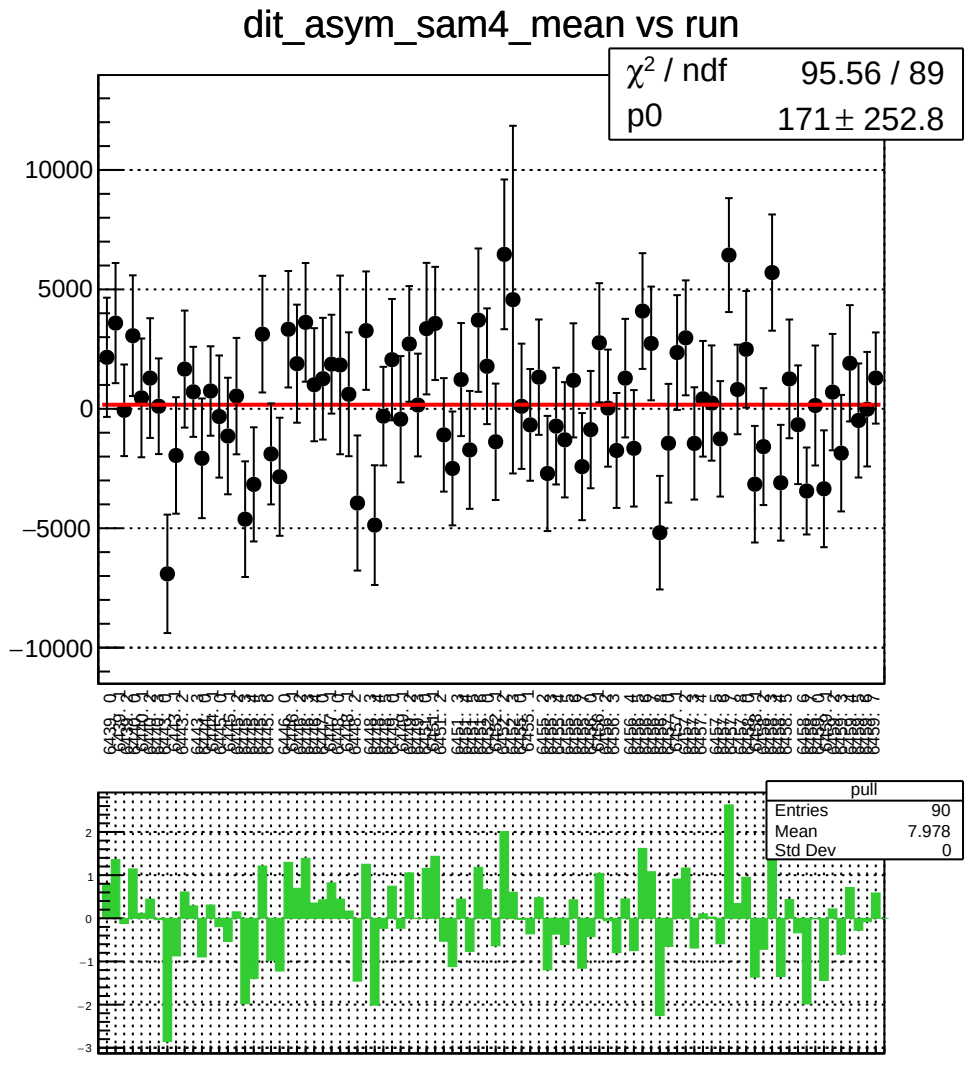

pull1D
Entries 90
Mean 0.01502
Std Dev 1.087
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

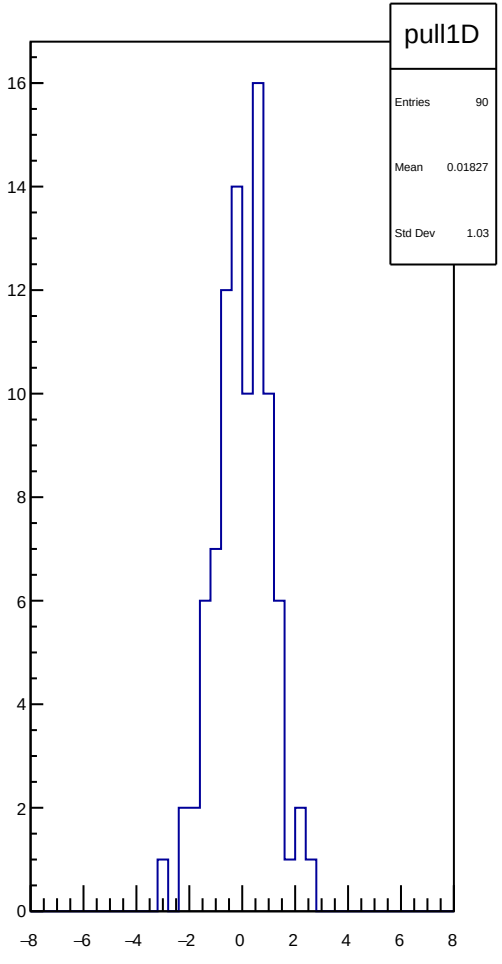

eigen_cor_asym_sam4_rms vs run
χ² / ndf 2.081e+04 / 89
p0 219.9 ± 0.1657
700
600
500
400
300
200

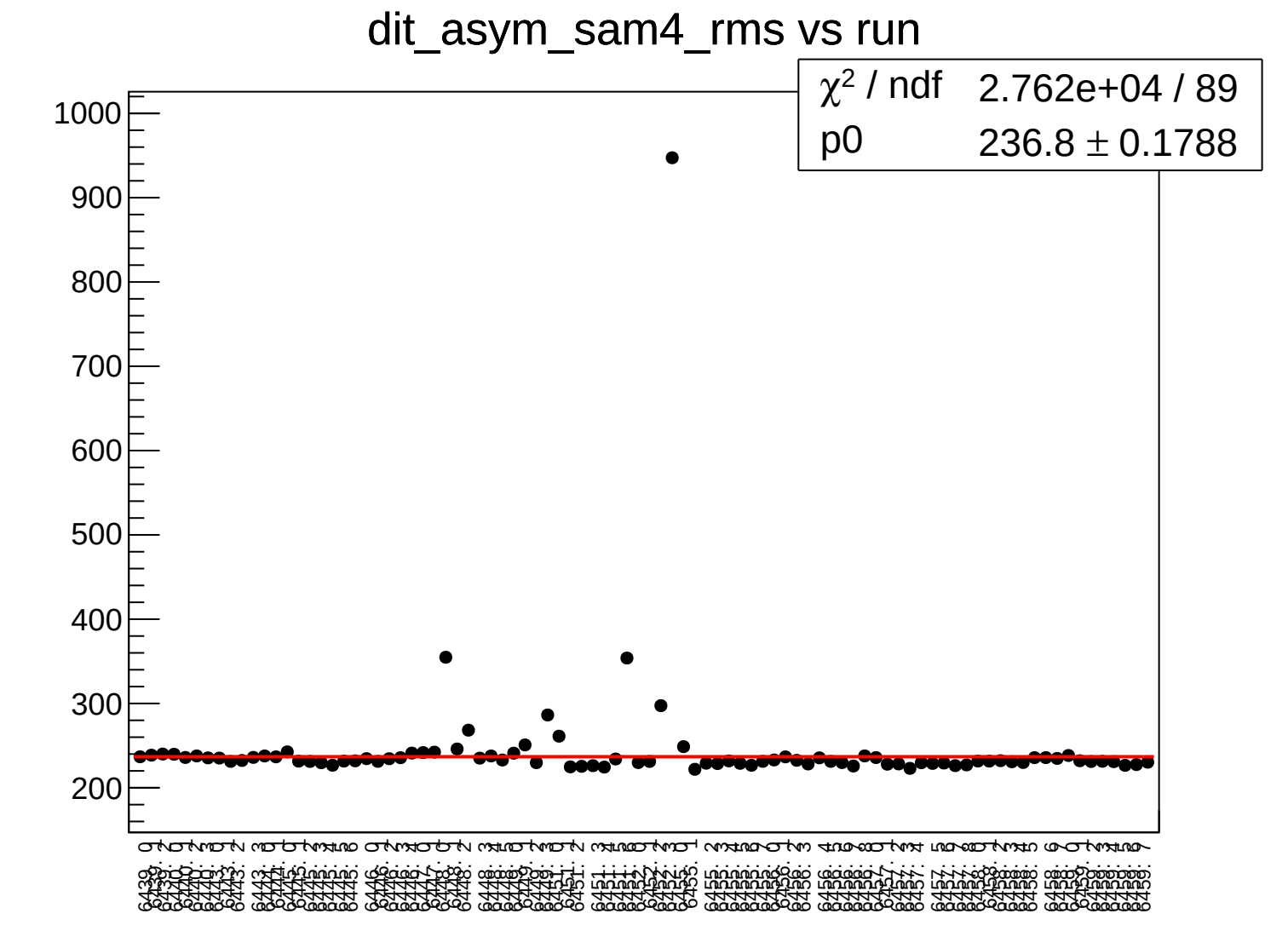

asym_sam4_eigen_cor_correction_mean vs run
χ² / ndf 77.63 / 89
p0 −6407 ± 2548
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 90
Mean −3558
Std Dev 0
2
1
0
−1
−2

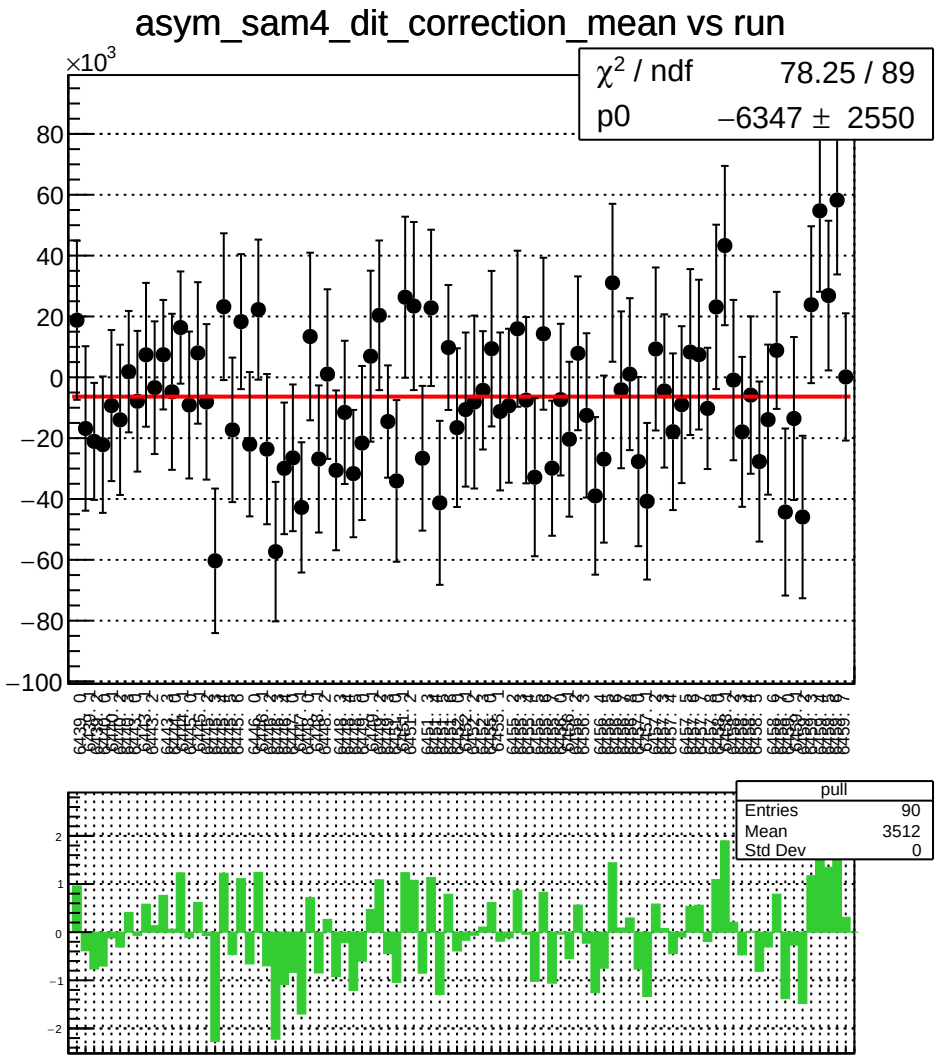

pull1D
Entries 90
Mean −0.001015
Std Dev 0.9287
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

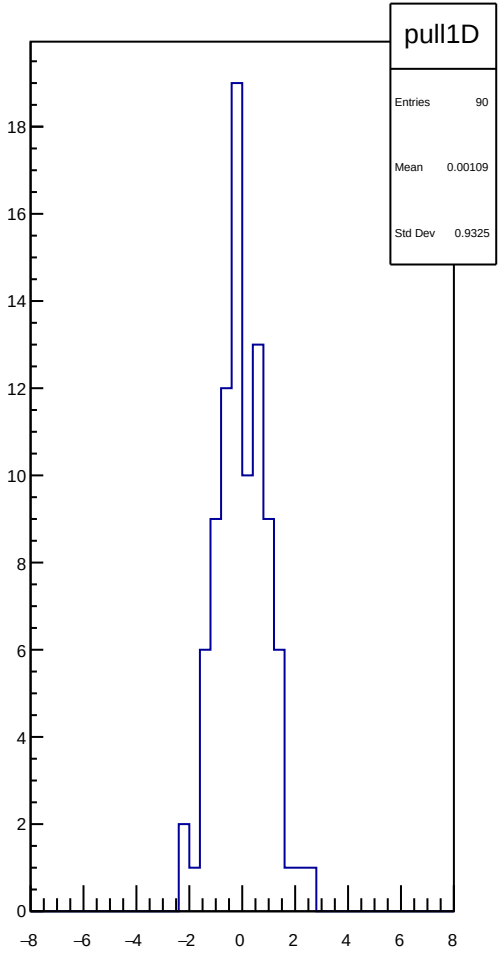

asym_sam4_eigen_cor_correction_rms vs run
χ² / ndf 6989 / 89
p0 2400 ± 1.801
3000
2800
2600
2400
2200
2000

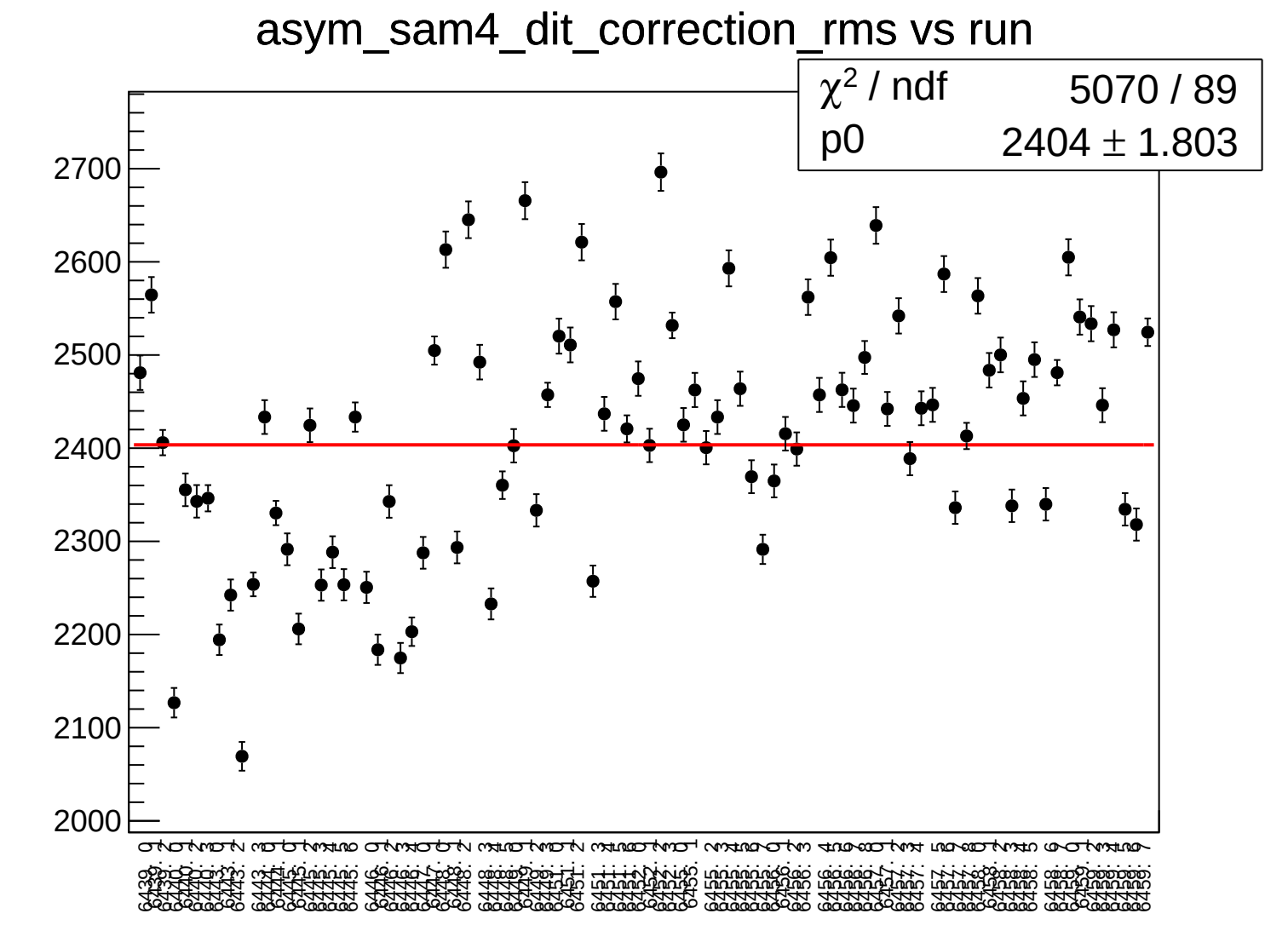

dit_asym_sam4_mean vs run
χ² / ndf 95.56 / 89
p0 171 ± 252.8
10000
5000
0
−5000
−10000
pull
Entries 90
Mean 7.978
Std Dev 0
2
1
0
−1
−2
−3

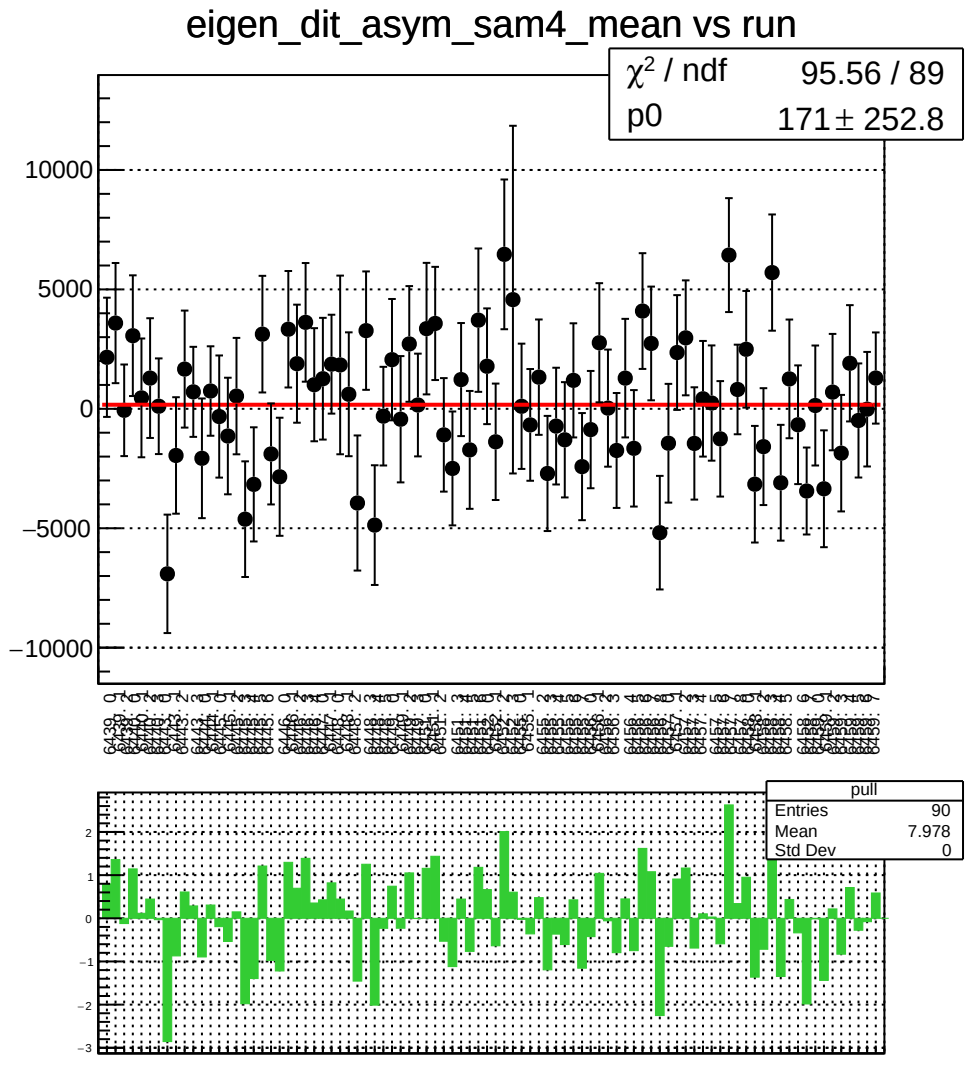

pull1D
Entries 90
Mean 0.01827
Std Dev 1.03
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

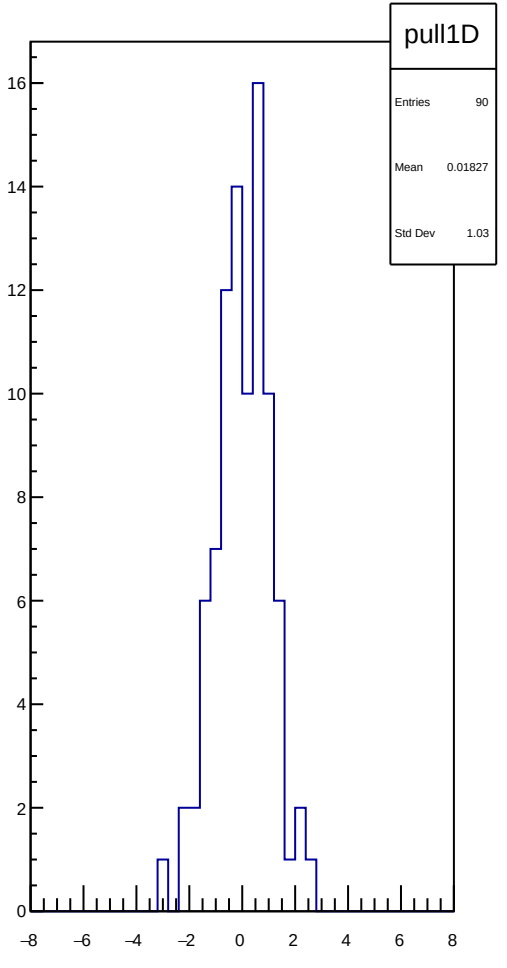

dit_asym_sam4_rms vs run
χ² / ndf 2.762e+04 / 89
p0 236.8 ± 0.1788
1000
900
800
700
600
500
400
300
200

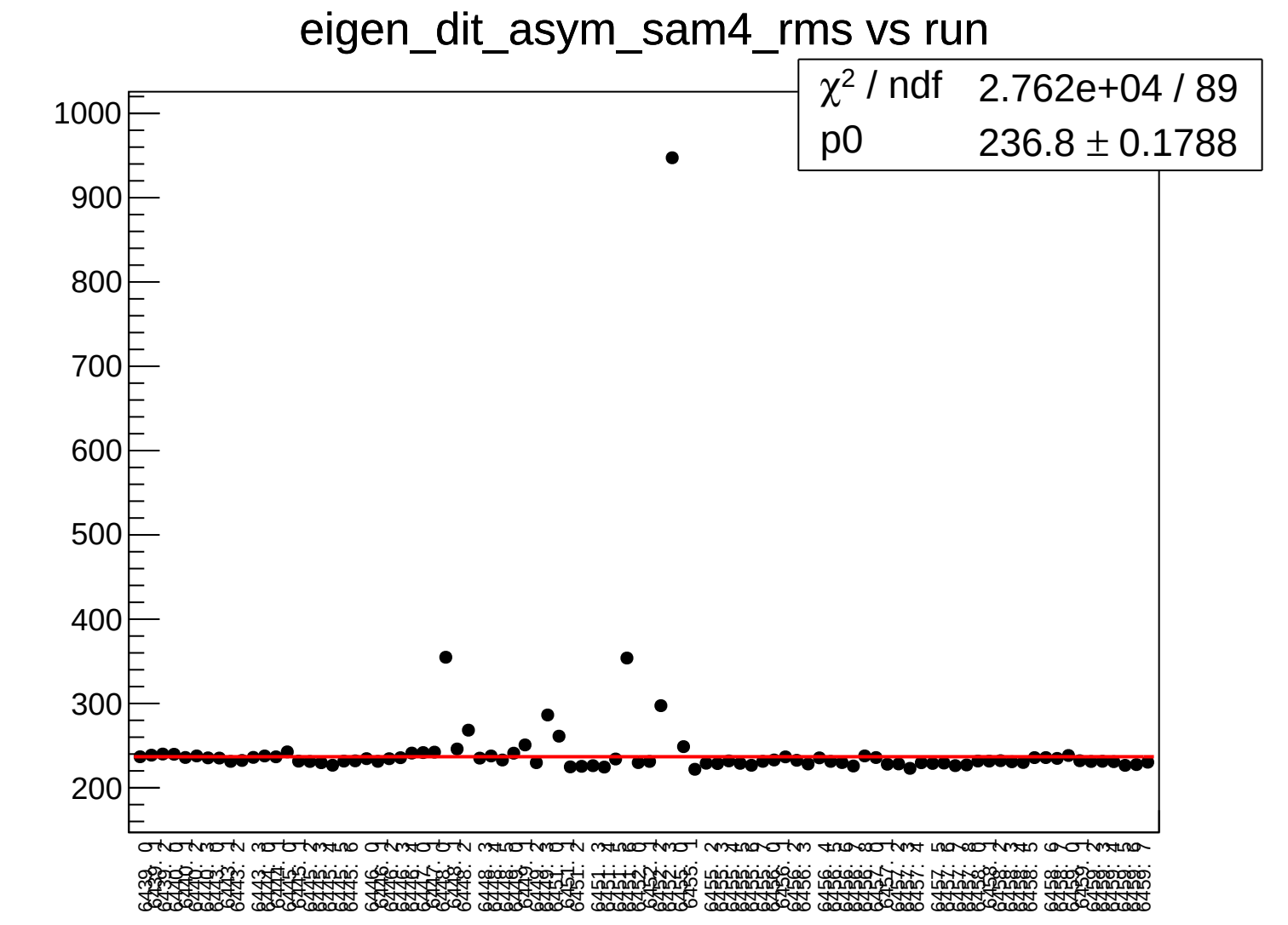

asym_sam4_dit_correction_mean vs run
×10^3
χ² / ndf 78.25 / 89
p0 −6347 ± 2550
pull
Entries 90
Mean 3512
Std Dev 0

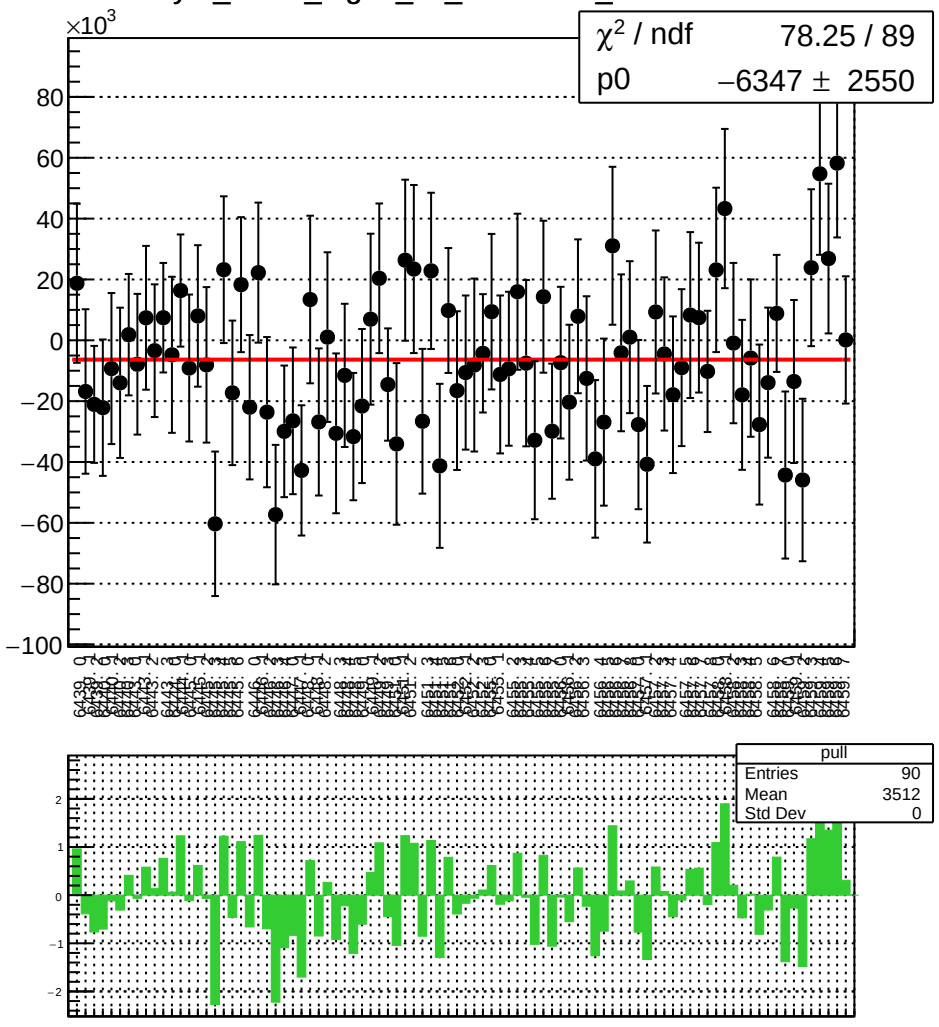

pull1D
Entries 90
Mean 0.00109
Std Dev 0.9325

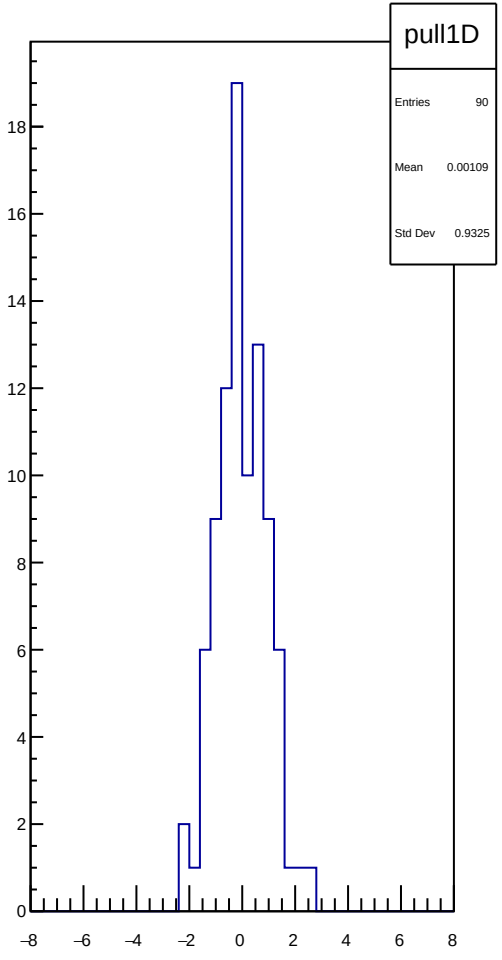

asym_sam4_dit_correction_rms vs run
χ² / ndf 5070 / 89
p0 2404 ± 1.803
2700
2600
2500
2400
2300
2200
2100
2000

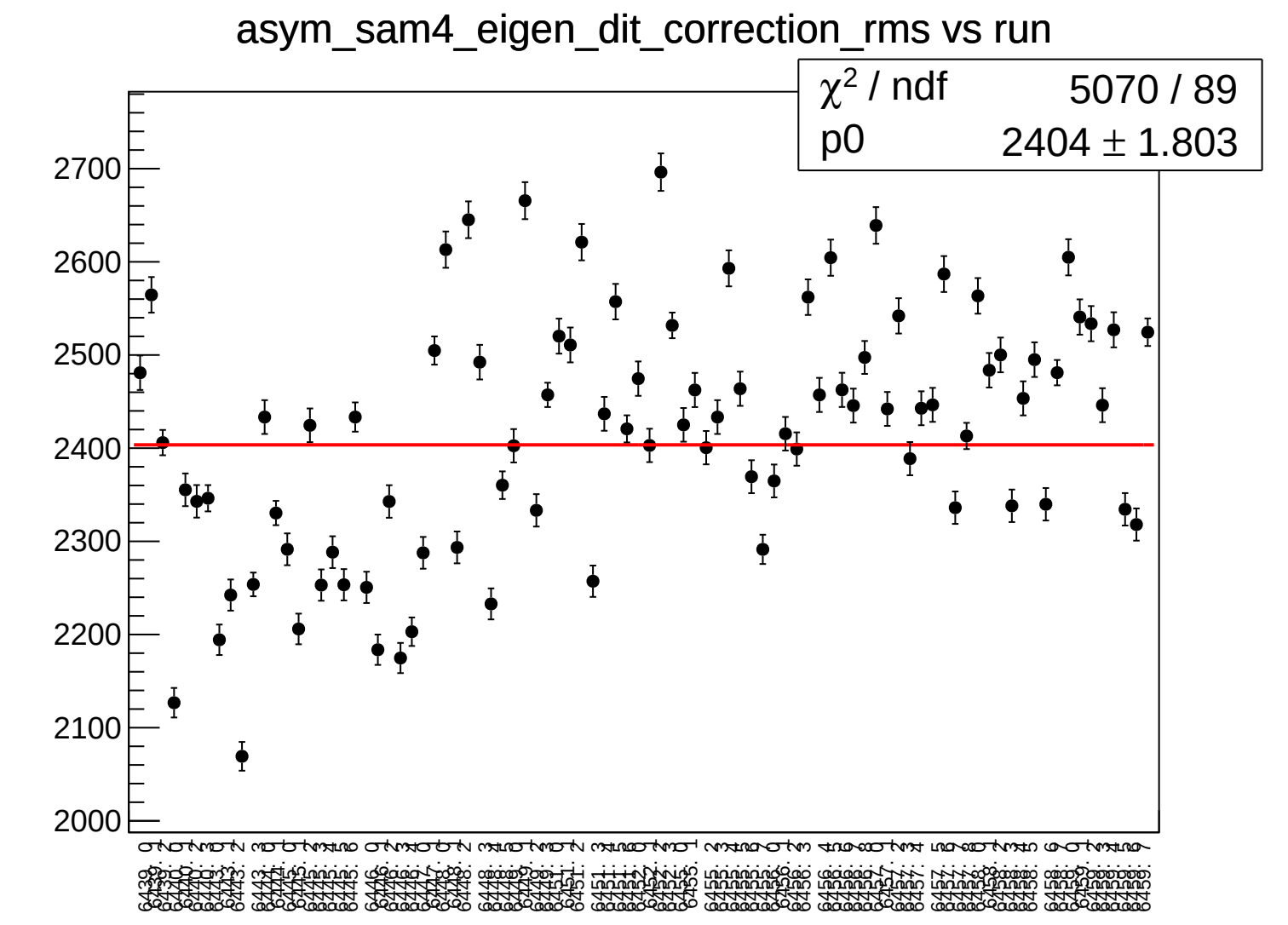

eigen_dit_asym_sam4_mean vs run
χ² / ndf 95.56 / 89
p0 171 ± 252.8
10000
5000
0
−5000
−10000
pull
Entries 90
Mean 7.978
Std Dev 0
2
1
0
−1
−2
−3

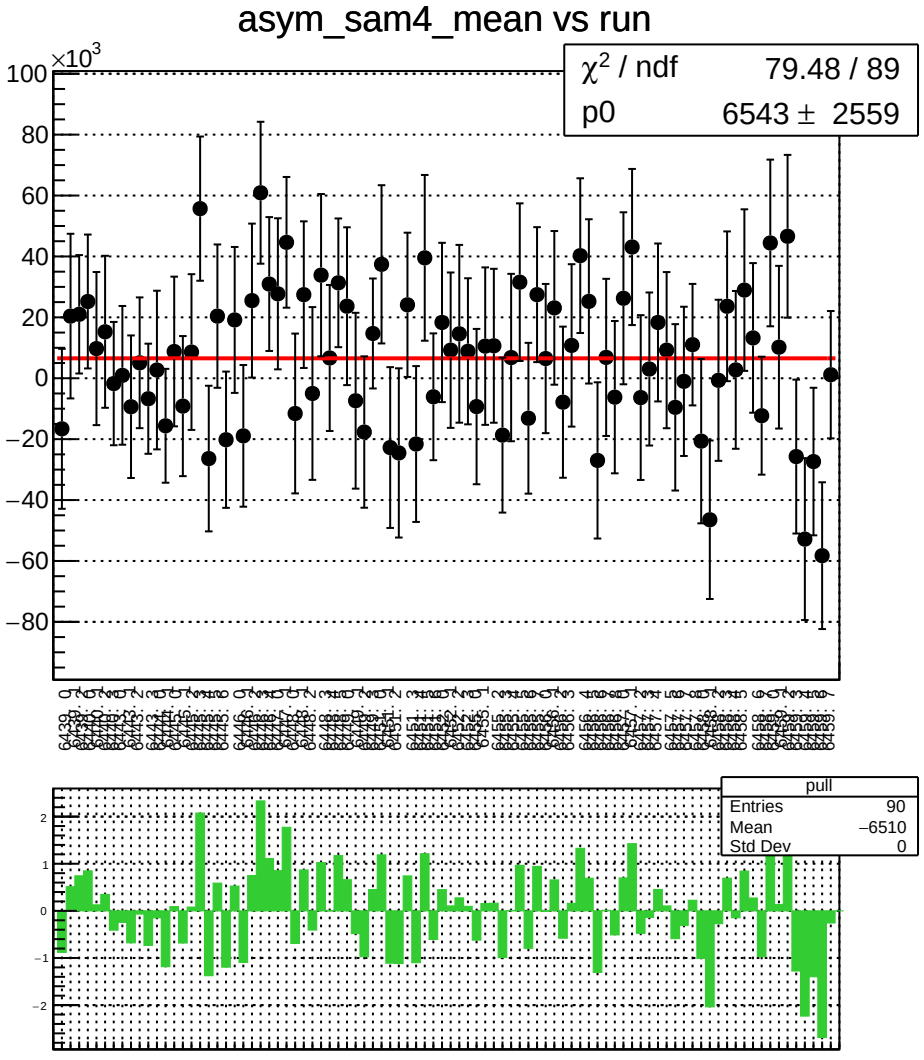

pull1D
Entries 90
Mean 0.01827
Std Dev 1.03
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

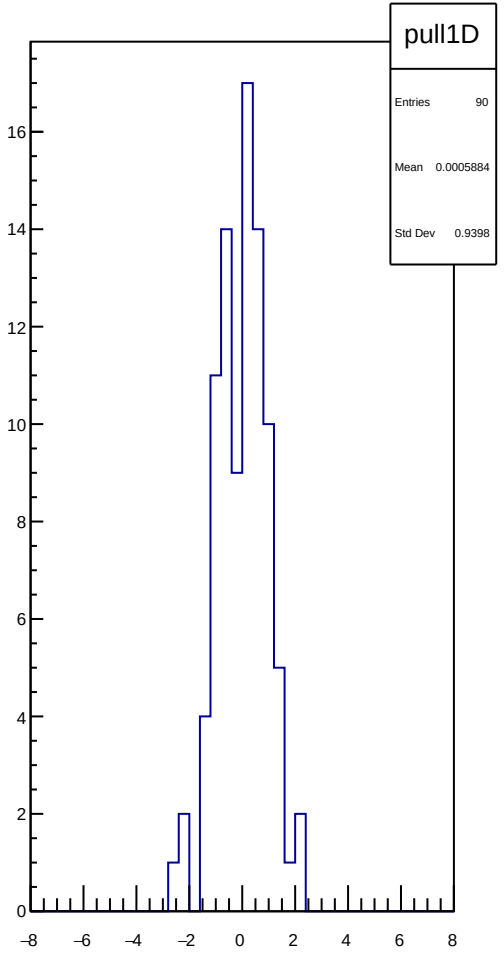

eigen_dit_asym_sam4_rms vs run
χ² / ndf 2.762e+04 / 89
p0 236.8 ± 0.1788
1000
900
800
700
600
500
400
300
200

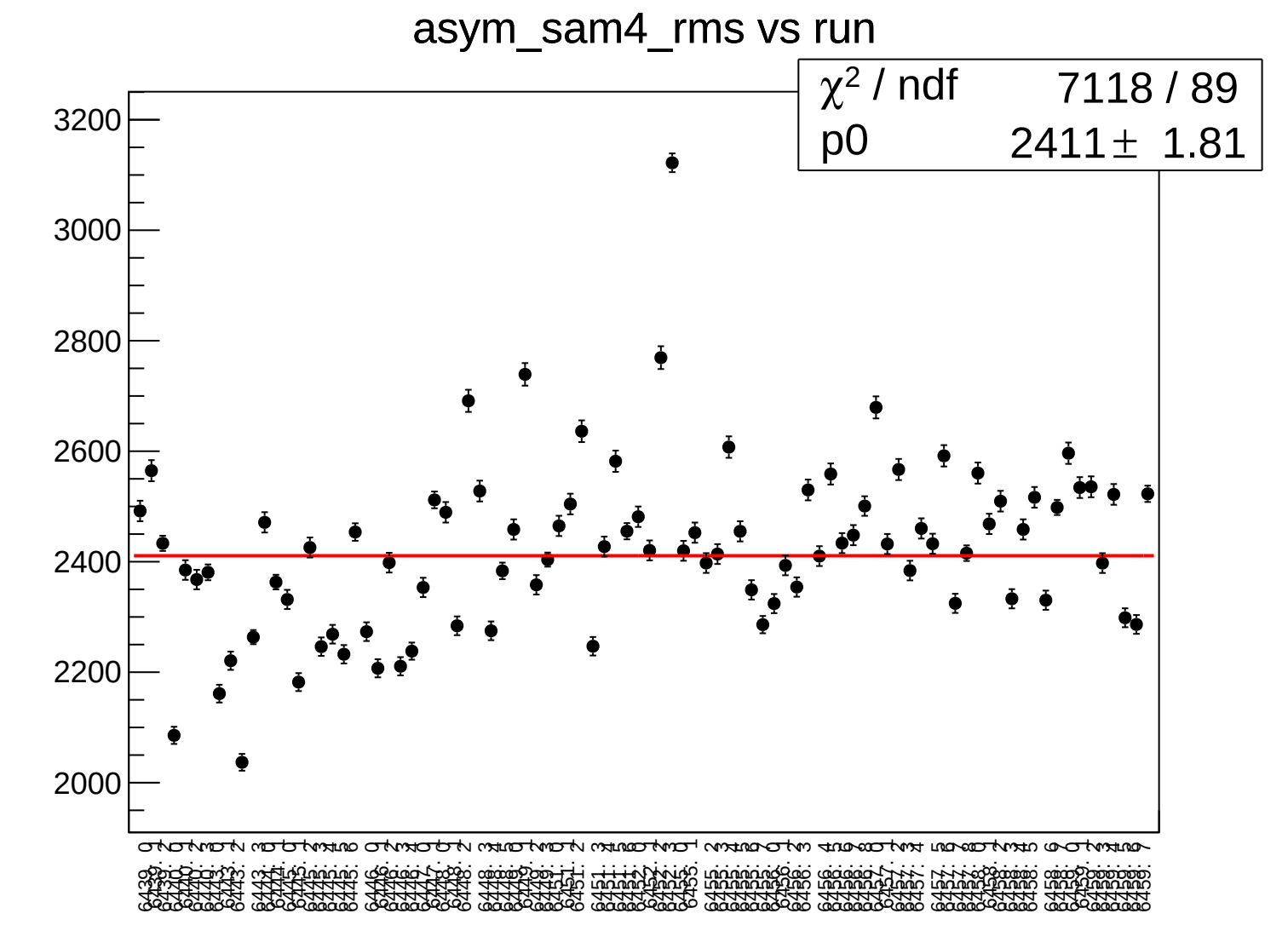

asym_sam4_eigen_dit_correction_mean vs run
χ² / ndf 78.25 / 89
p0 −6347 ± 2550
×10³
pull
Entries 90
Mean 3512
Std Dev 0

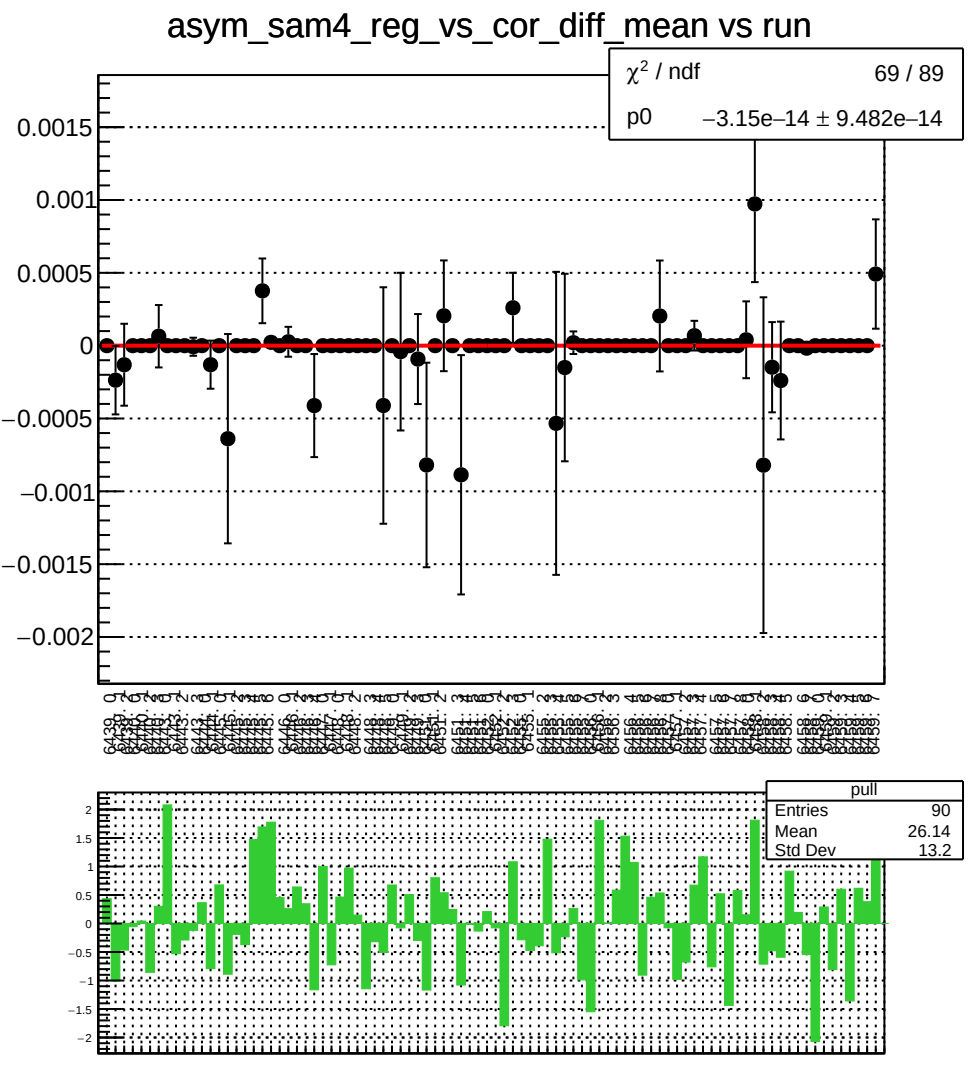

pull1D
Entries 90
Mean 0.00109
Std Dev 0.9325

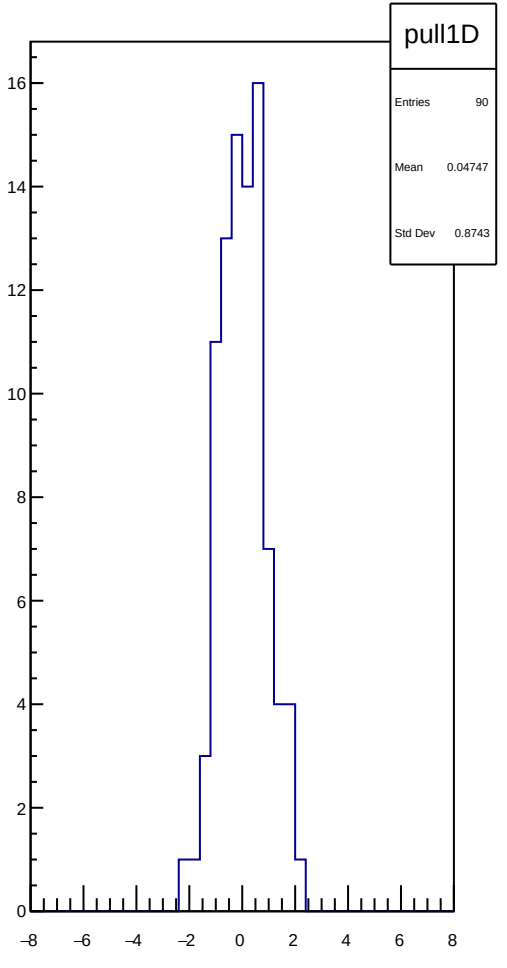

asym_sam4_eigen_dit_correction_rms vs run
χ² / ndf 5070 / 89
p0 2404 ± 1.803
2700
2600
2500
2400
2300
2200
2100
2000

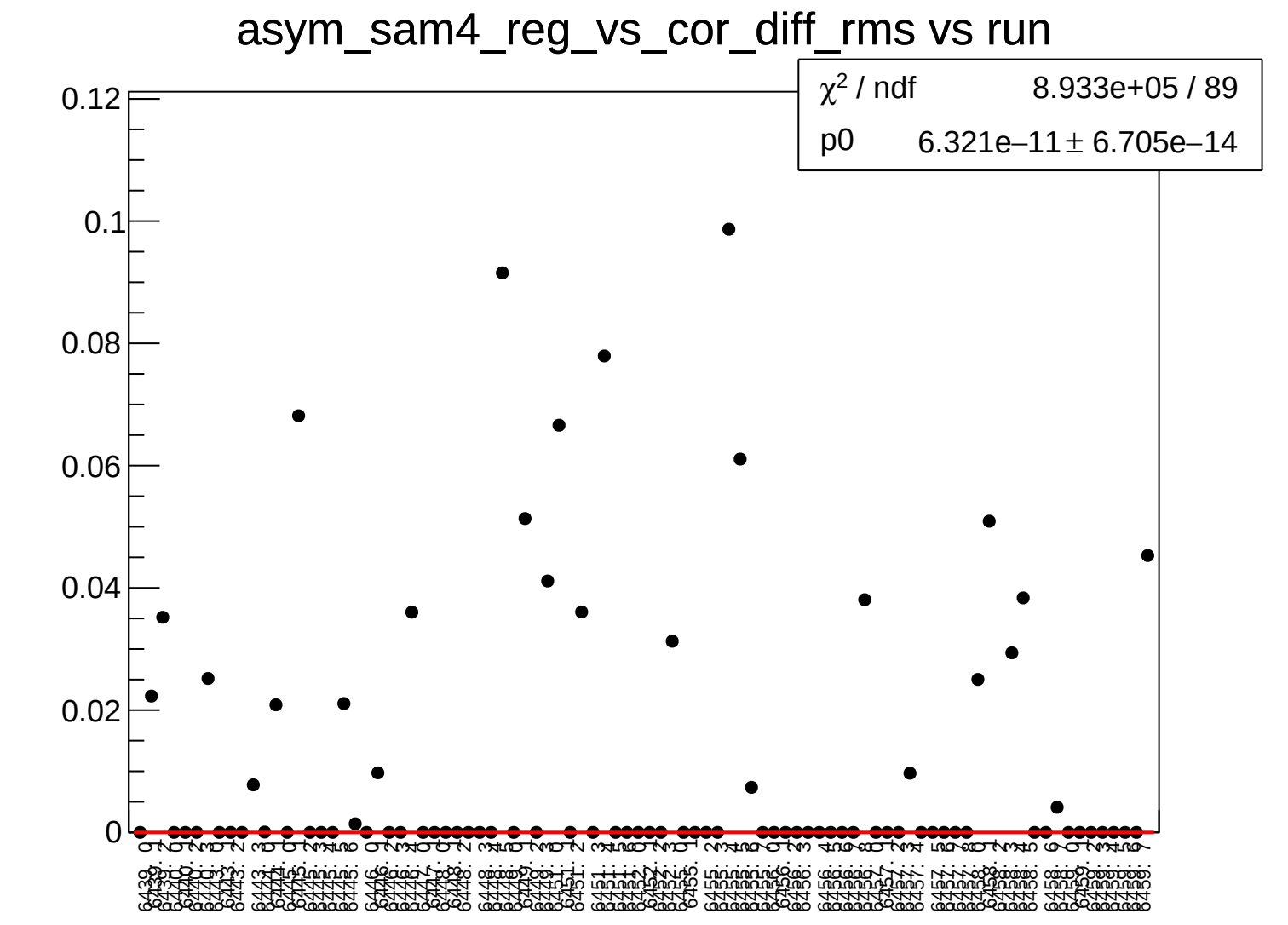

asym_sam4_mean vs run
×10^3
χ² / ndf 79.48 / 89
p0 6543 ± 2559
pull
Entries 90
Mean −6510
Std Dev 0

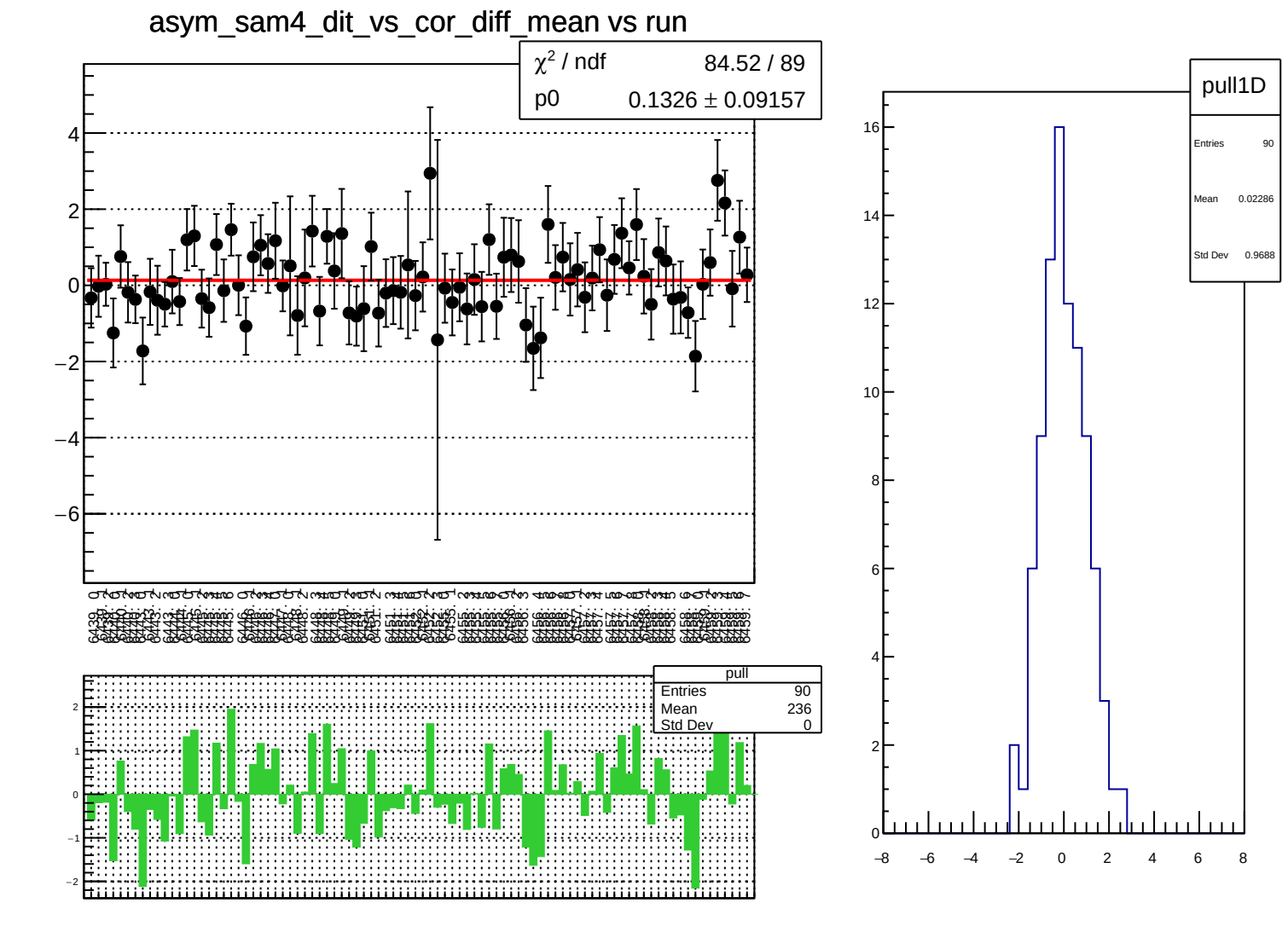

pull1D
Entries 90
Mean 0.0005884
Std Dev 0.9398

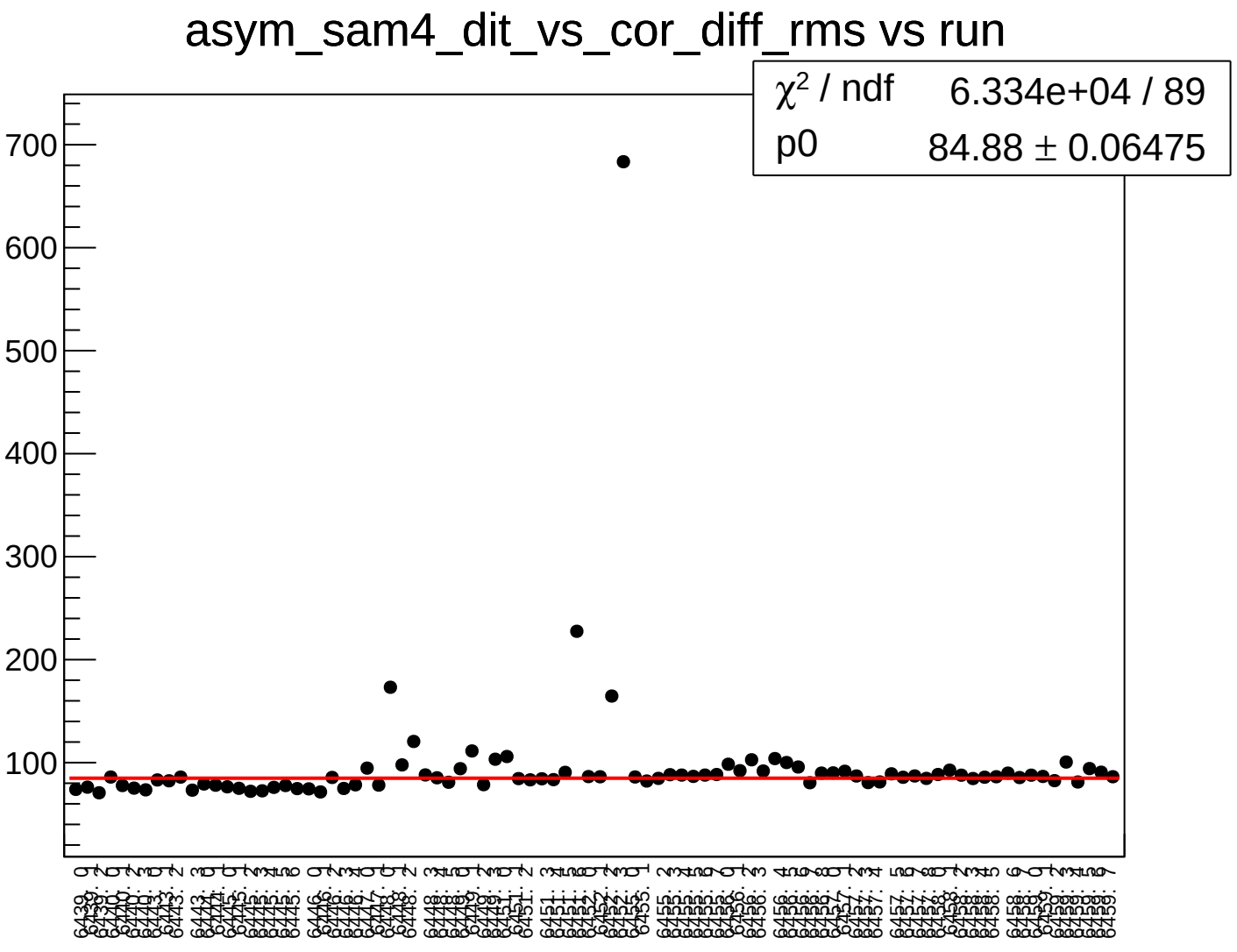

asym_sam4_rms vs run
χ² / ndf 7118 / 89
p0 2411 ± 1.81
3200
3000
2800
2600
2400
2200
2000

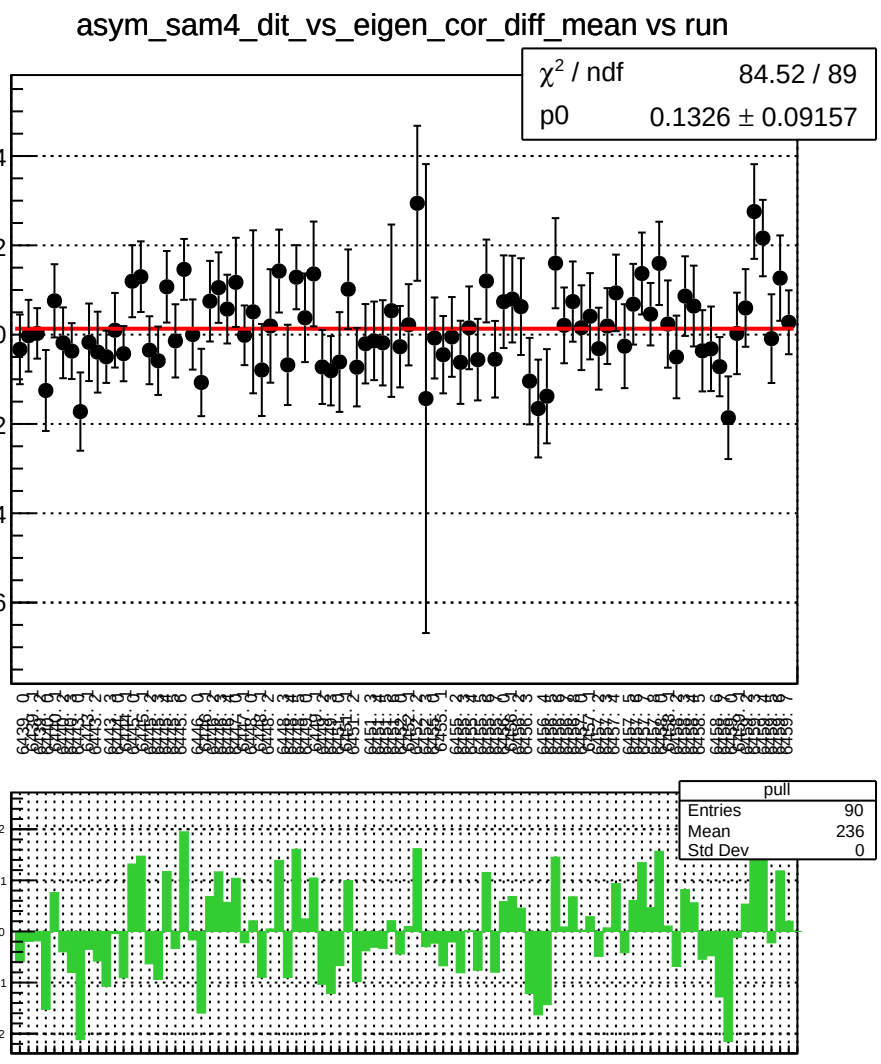

asym_sam4_reg_vs_cor_diff_mean vs run
χ² / ndf 69 / 89
p0 −3.15e−14 ± 9.482e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 90
Mean 26.14
Std Dev 13.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

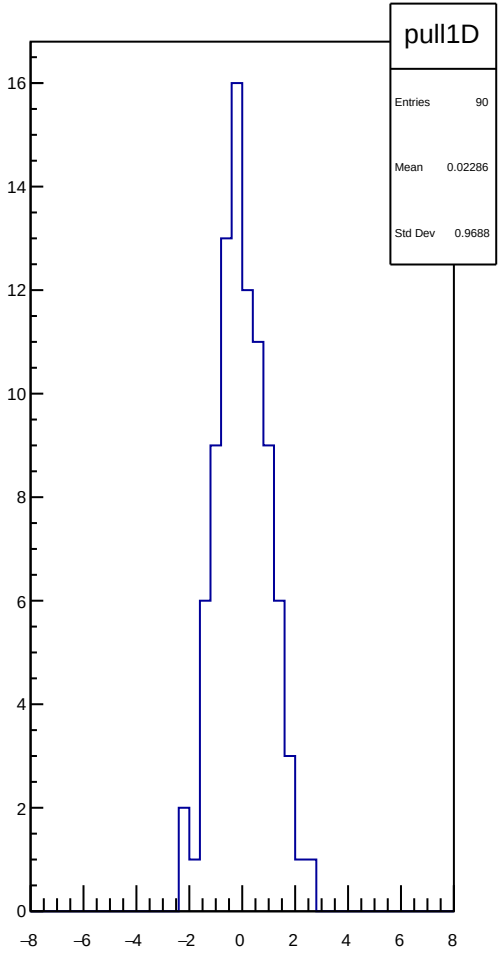

pull1D
Entries 90
Mean 0.04747
Std Dev 0.8743
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

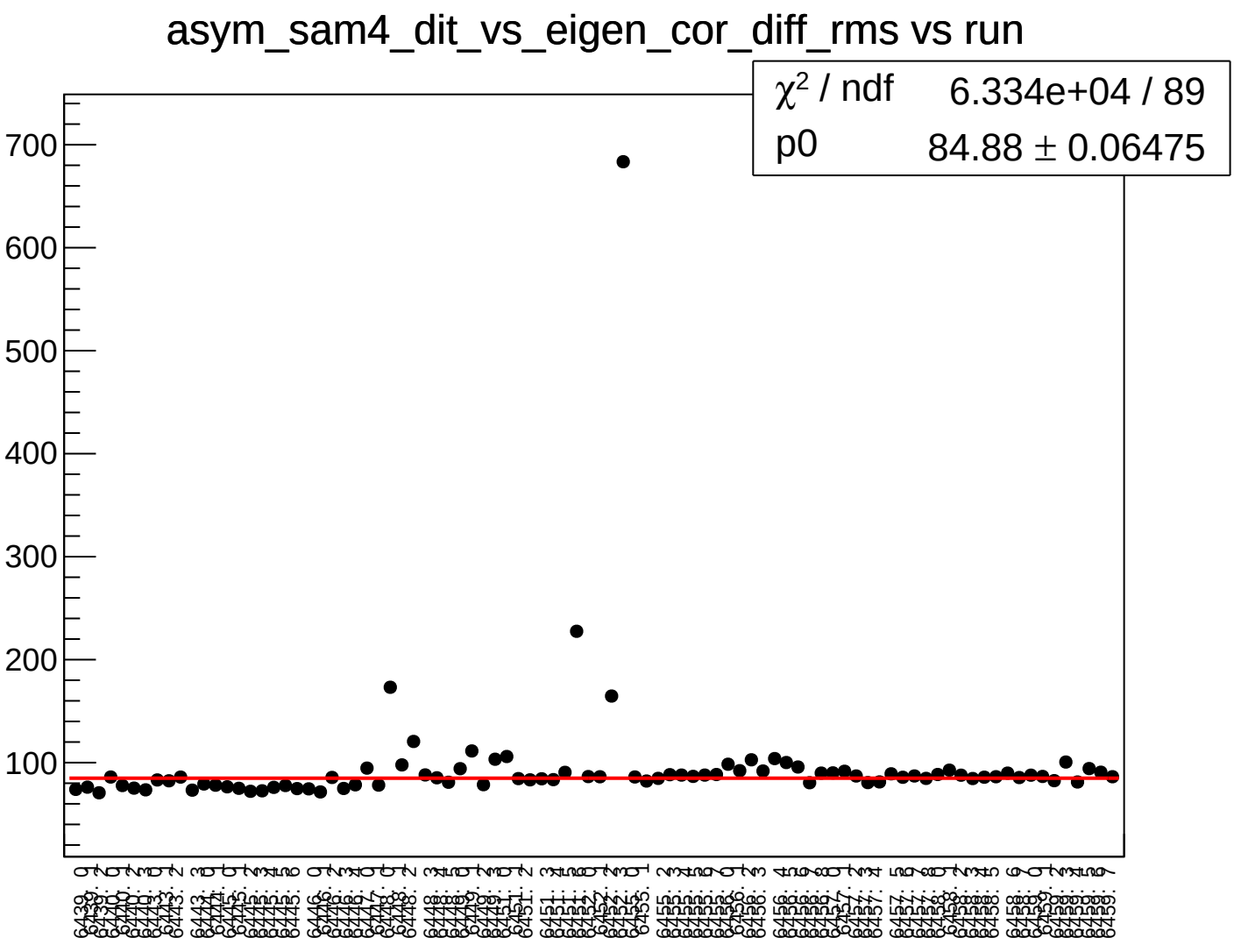

asym_sam4_reg_vs_cor_diff_rms vs run
χ² / ndf 8.933e+05 / 89
p0 6.321e−11 ± 6.705e−14
0.12
0.1
0.08
0.06
0.04
0.02
0

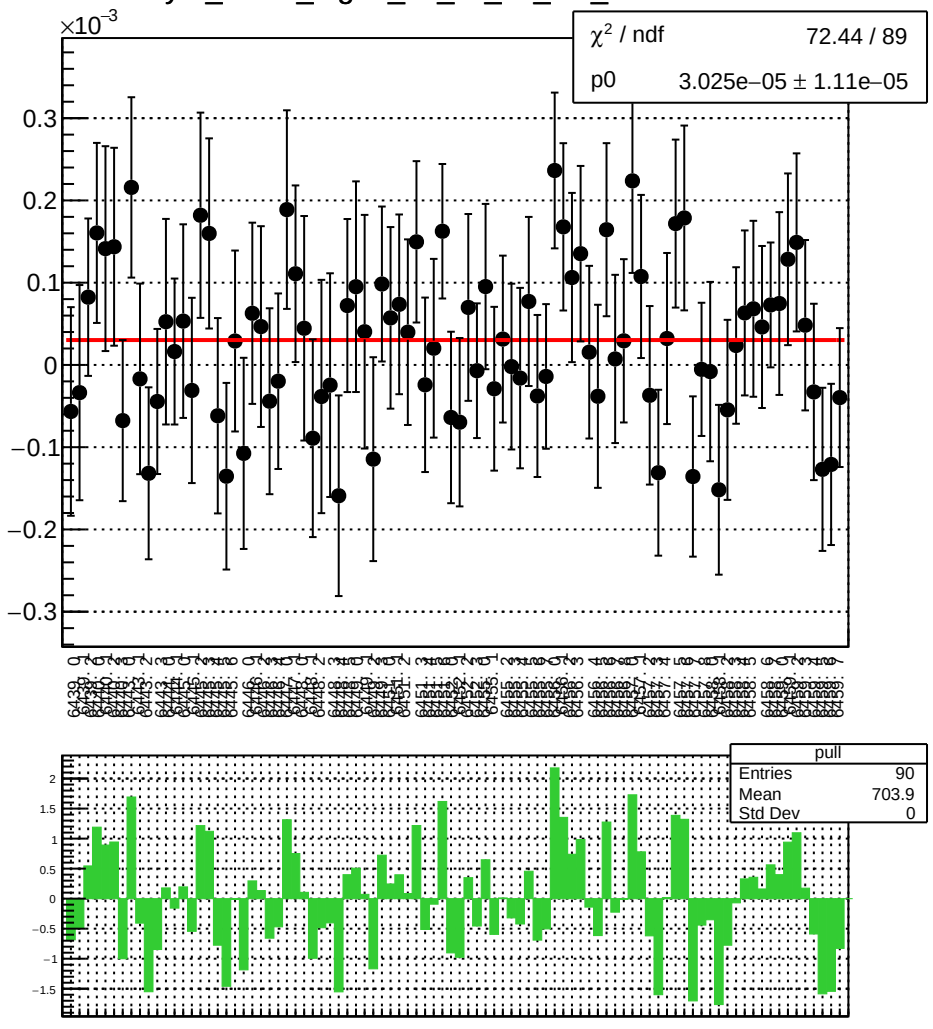

asym_sam4_dit_vs_cor_diff_mean vs run
χ² / ndf 84.52 / 89
p0 0.1326 ± 0.09157
pull
Entries 90
Mean 236
Std Dev 0
pull1D
Entries 90
Mean 0.02286
Std Dev 0.9688

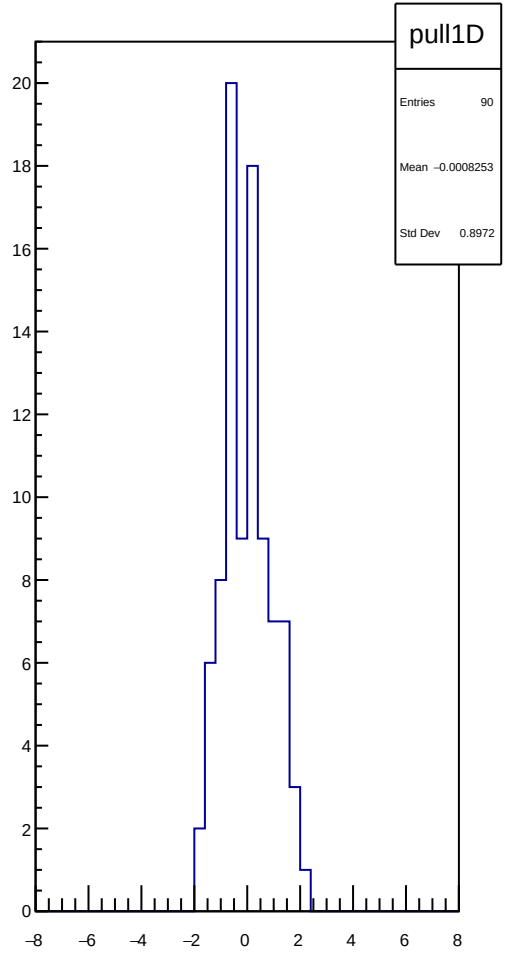

asym_sam4_dit_vs_cor_diff_rms vs run
χ² / ndf 6.334e+04 / 89
p0 84.88 ± 0.06475
700
600
500
400
300
200
100

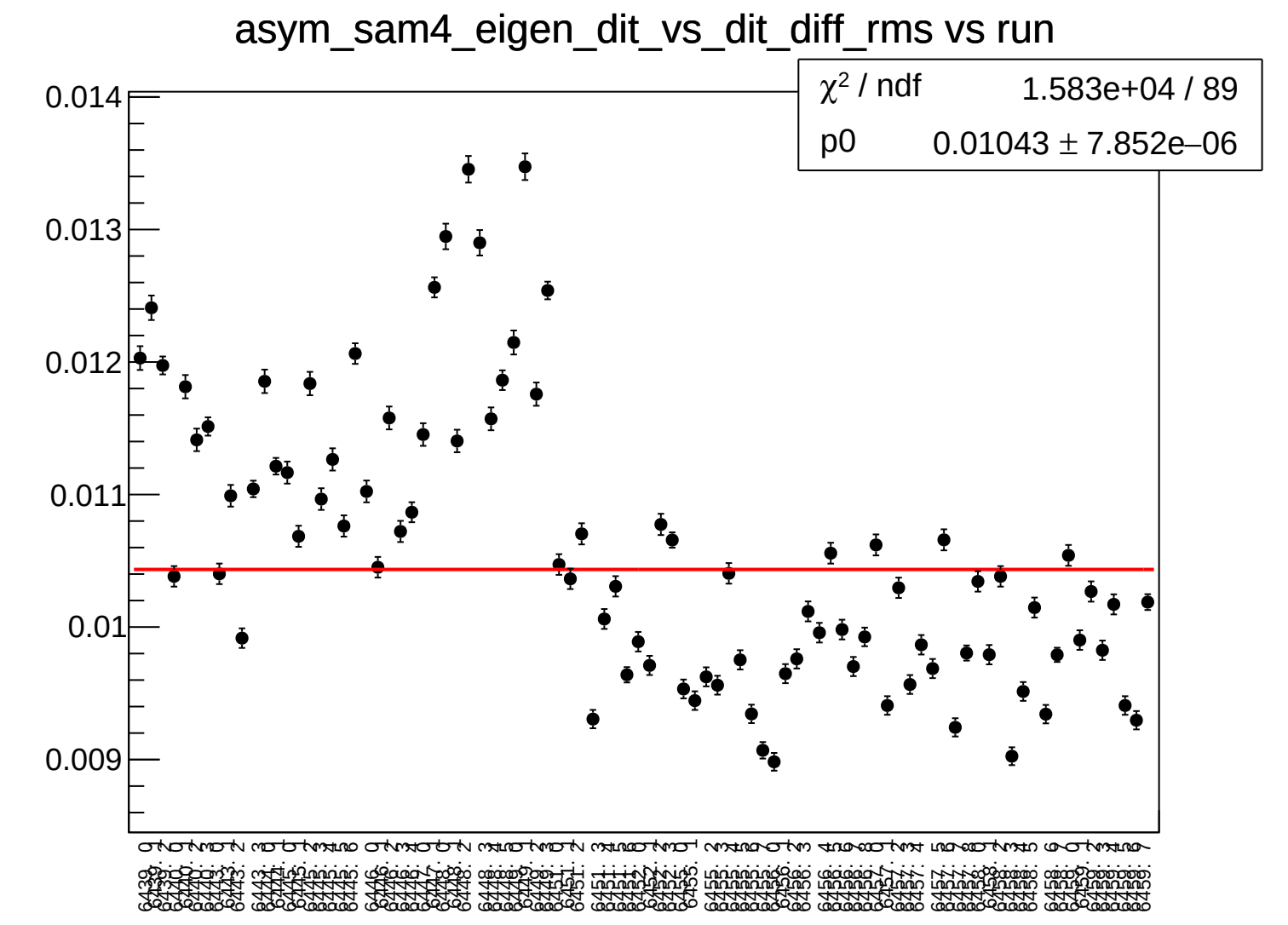

asym_sam4_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.52 / 89
p0 0.1326 ± 0.09157
pull
Entries 90
Mean 236
Std Dev 0

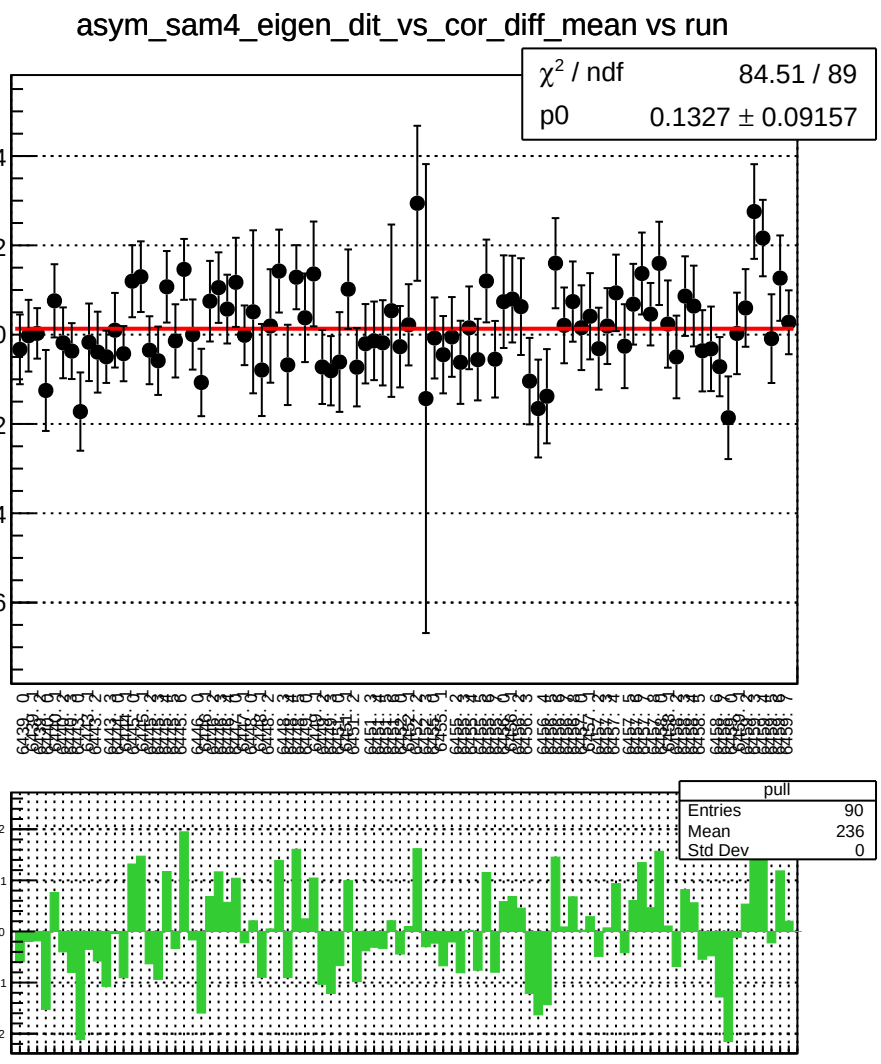

pull1D
Entries 90
Mean 0.02286
Std Dev 0.9688

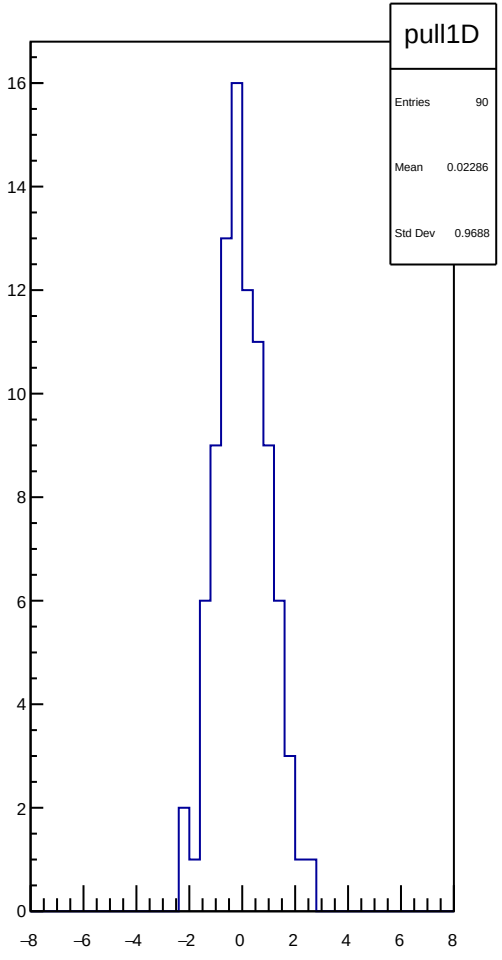

asym_sam4_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.334e+04 / 89
p0 84.88 ± 0.06475
700
600
500
400
300
200
100

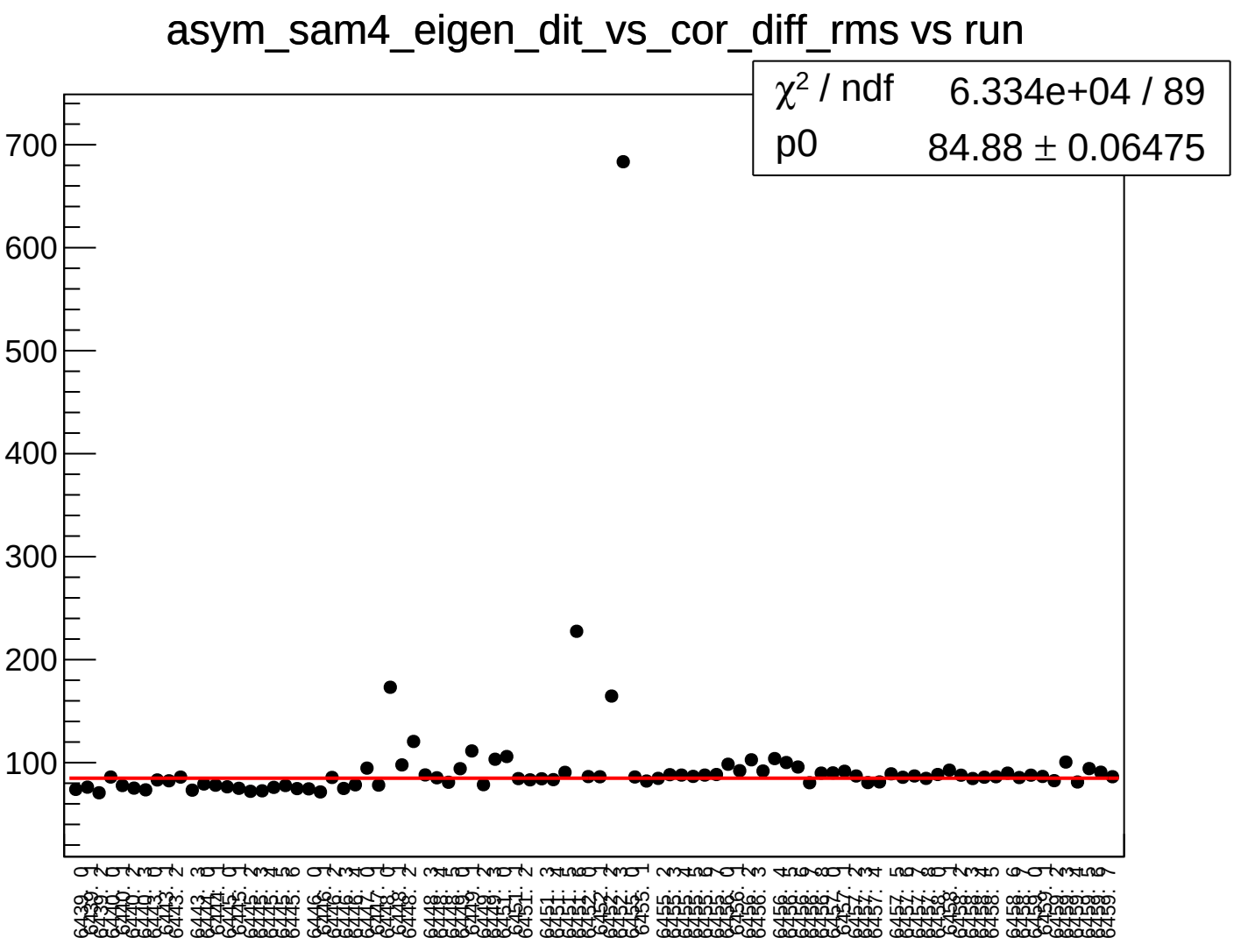

asym_sam4_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 72.44 / 89
p0 3.025e−05 ± 1.11e−05
pull
Entries 90
Mean 703.9
Std Dev 0

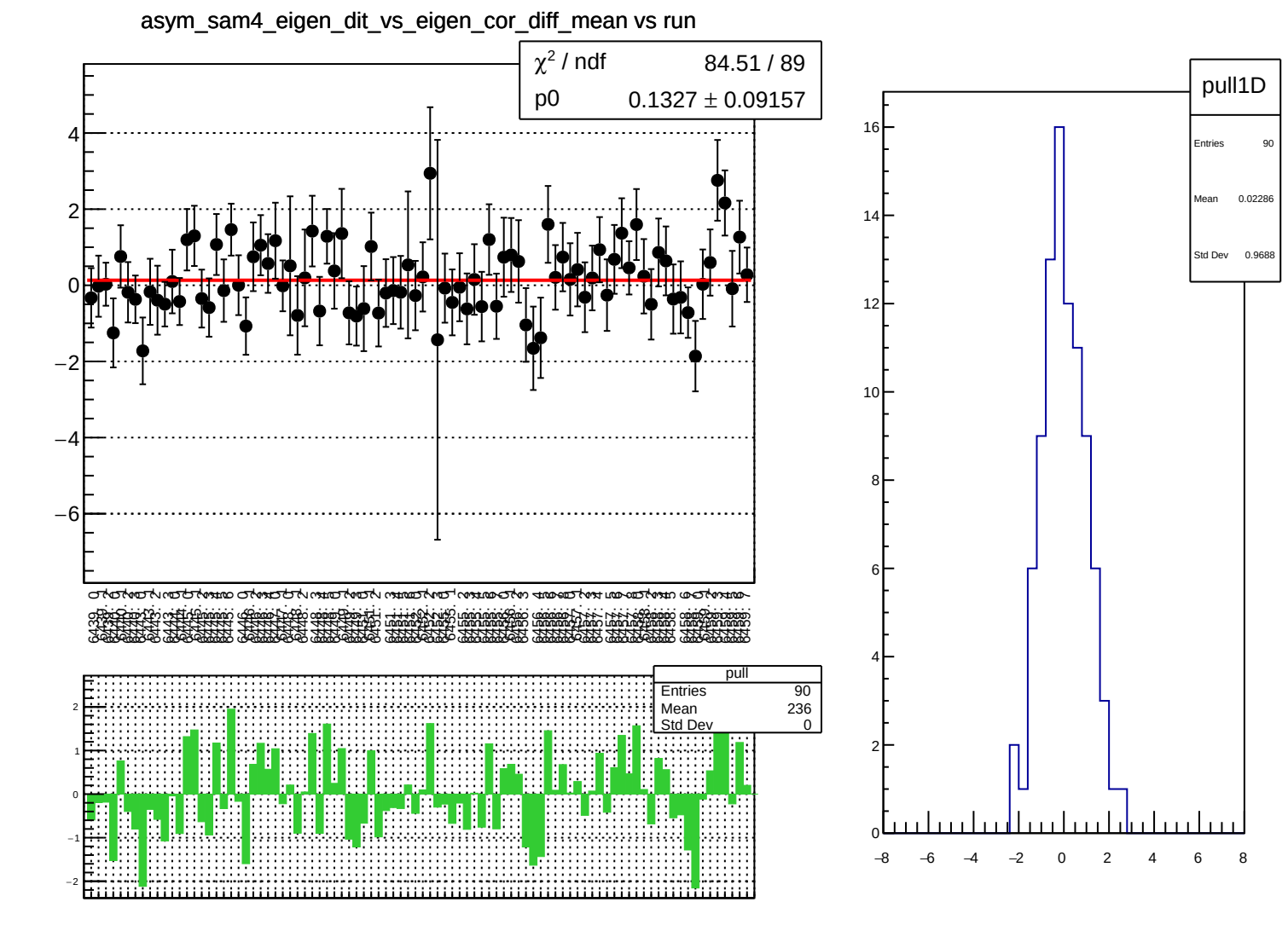

pull1D
Entries 90
Mean −0.0008253
Std Dev 0.8972

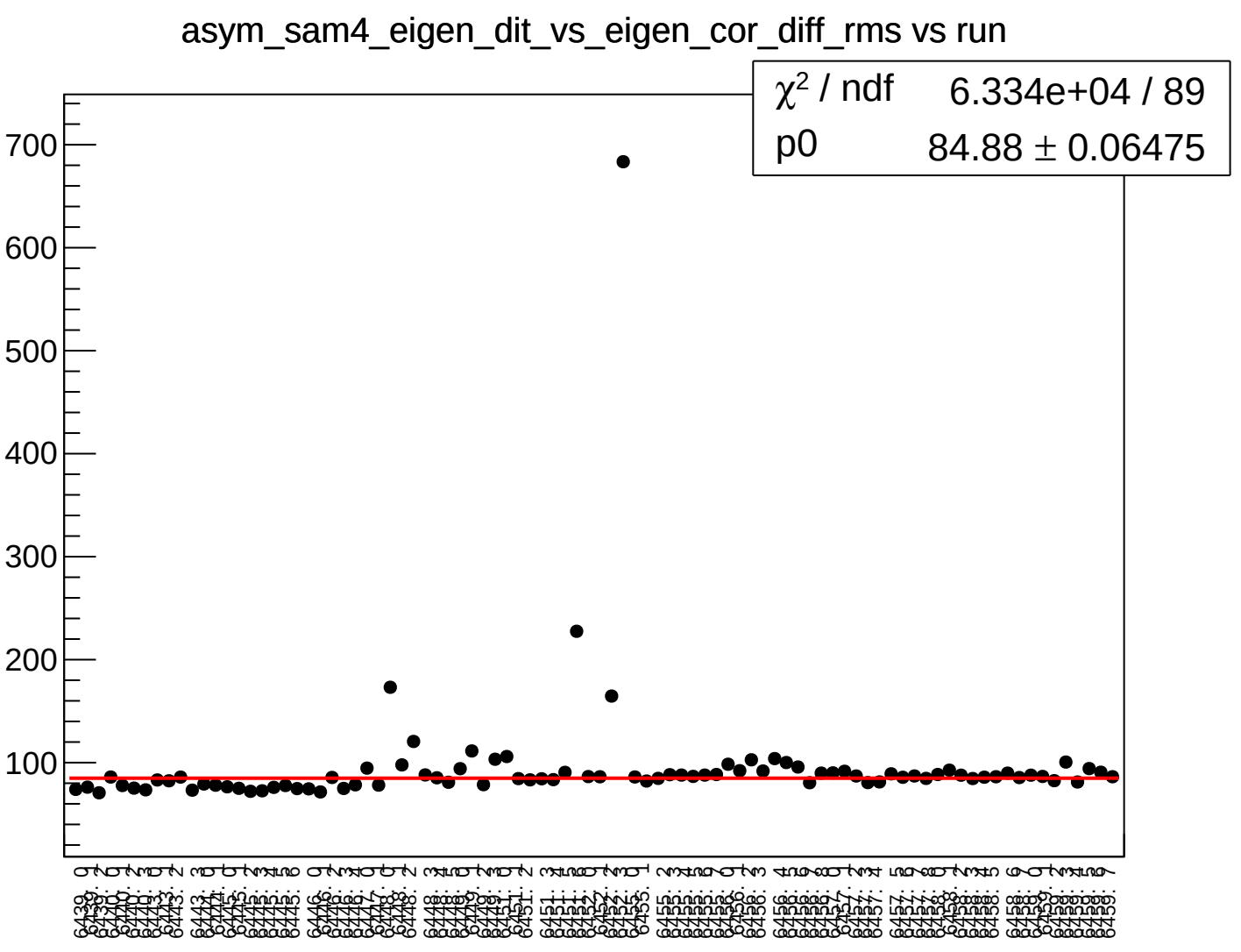

asym_sam4_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.583e+04 / 89
p0 0.01043 ± 7.852e–06
0.014
0.013
0.012
0.011
0.01
0.009

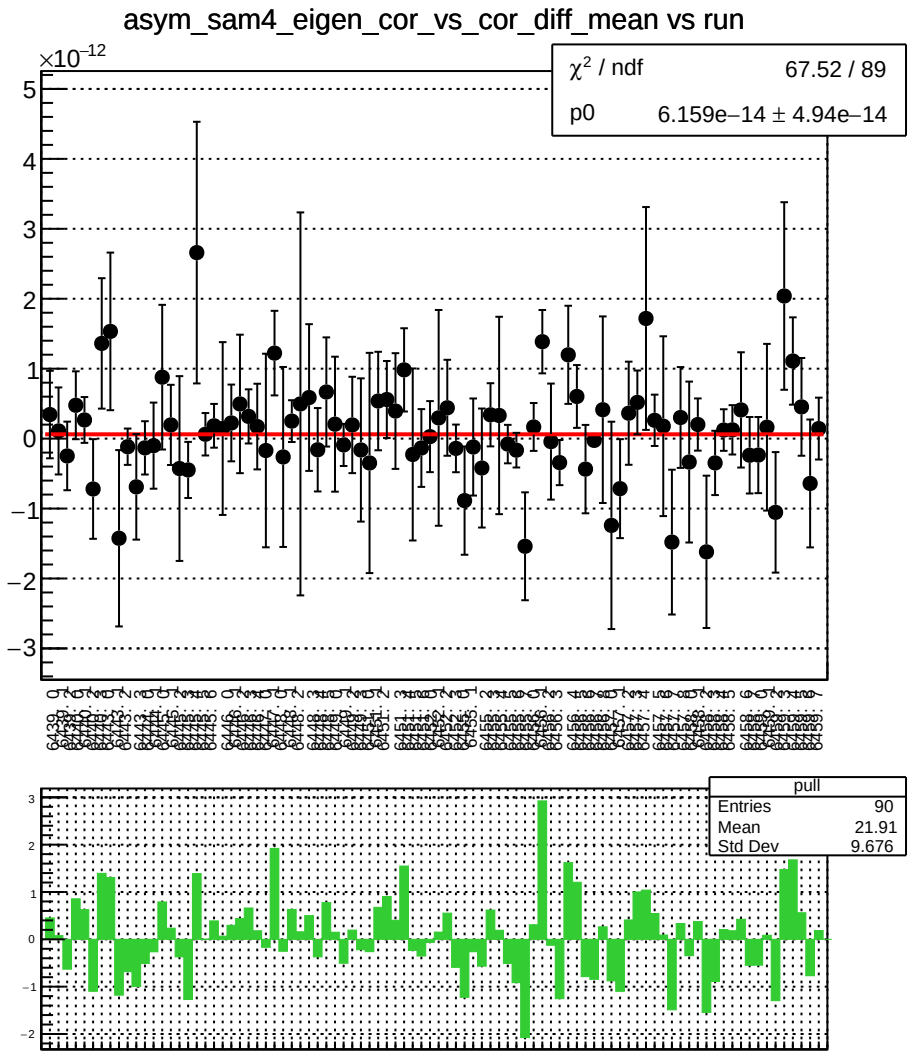

asym_sam4_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.51 / 89
p0 0.1327 ± 0.09157
pull
Entries 90
Mean 236
Std Dev 0

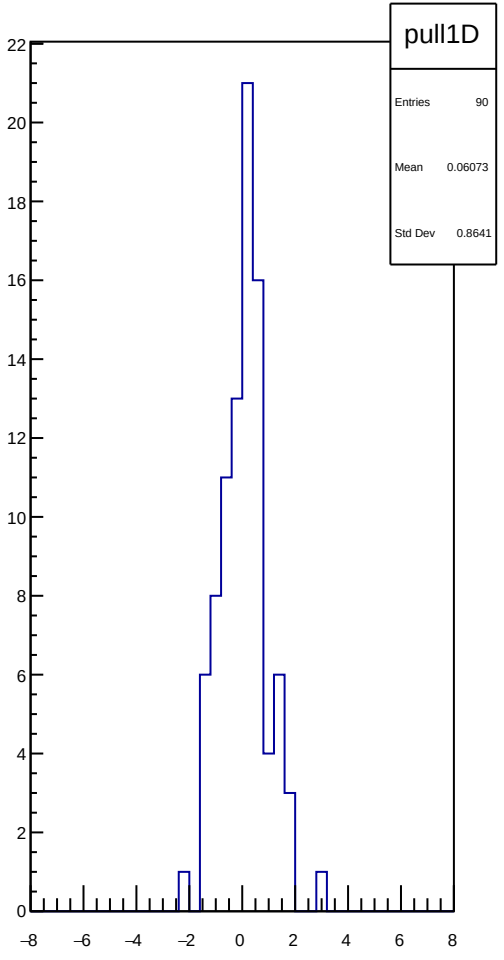

pull1D
Entries 90
Mean 0.02286
Std Dev 0.9688

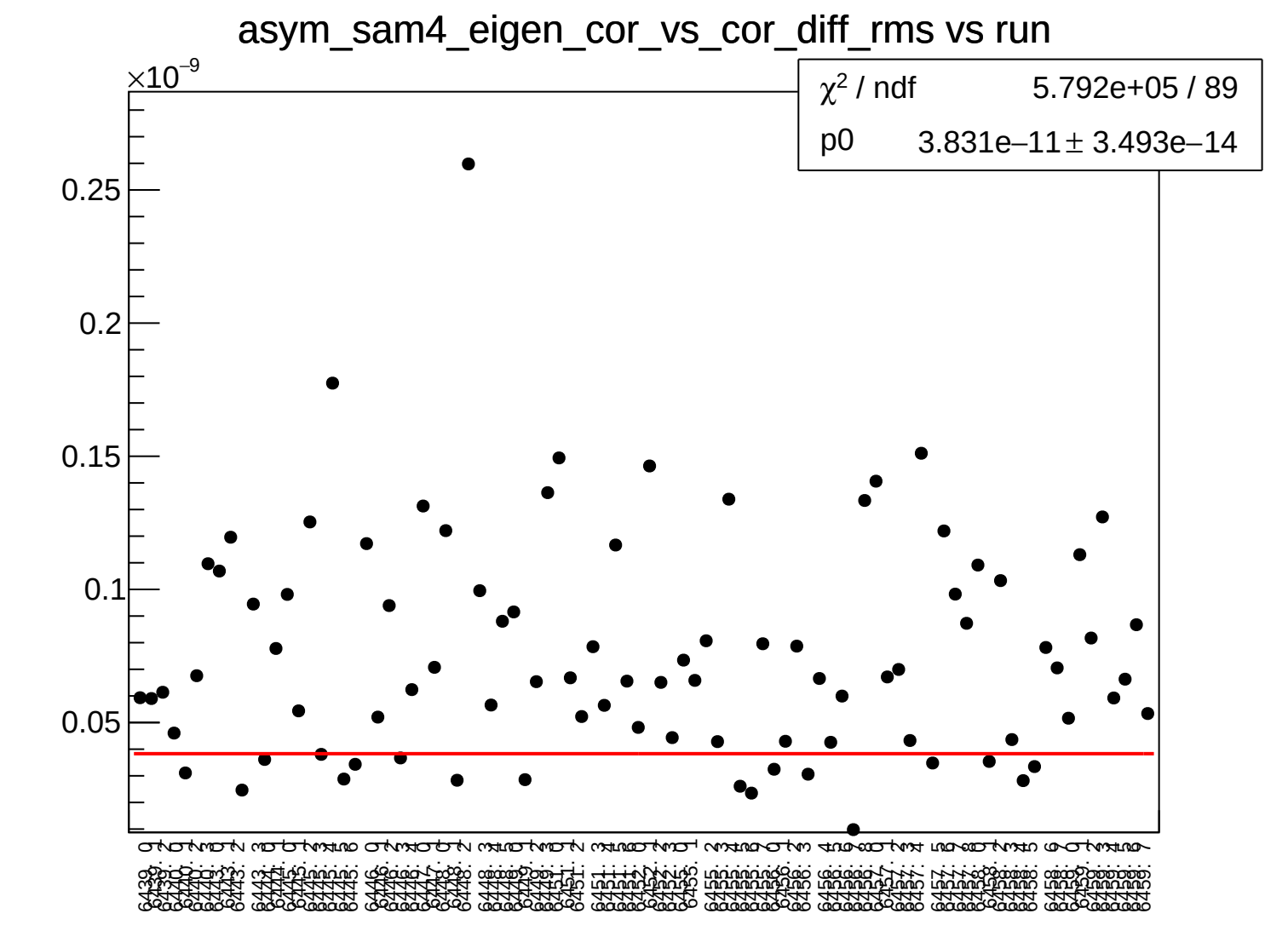

asym_sam4_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.334e+04 / 89
p0 84.88 ± 0.06475
700
600
500
400
300
200
100

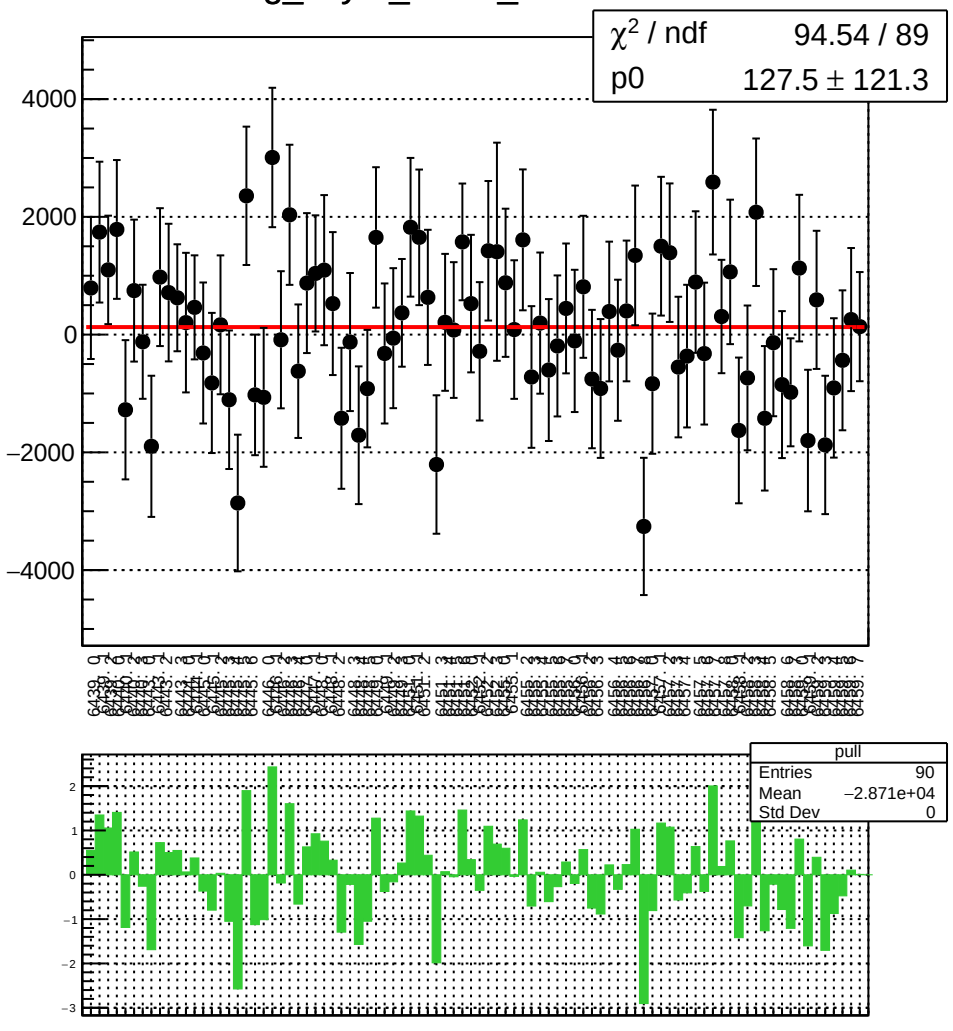

asym_sam4_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.51 / 89
p0 0.1327 ± 0.09157
pull
Entries 90
Mean 236
Std Dev 0
pull1D
Entries 90
Mean 0.02286
Std Dev 0.9688

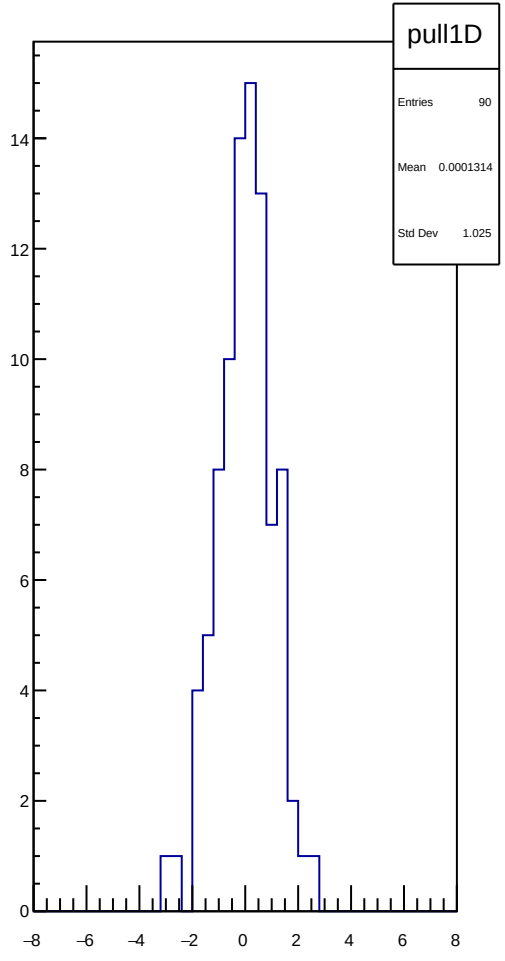

asym_sam4_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.334e+04 / 89
p0 84.88 ± 0.06475
700
600
500
400
300
200
100

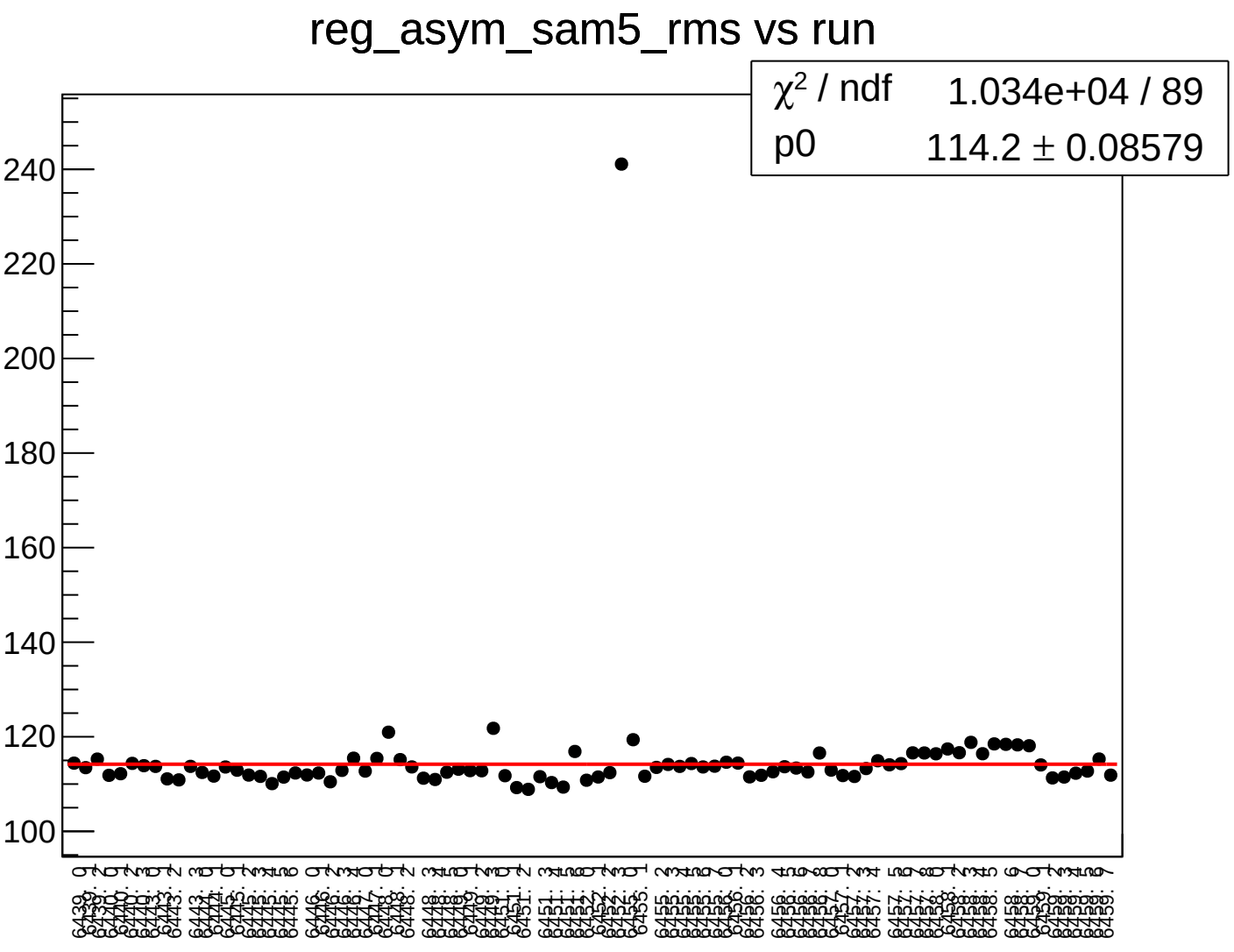

asym_sam4_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 67.52 / 89
p0 6.159e−14 ± 4.94e−14
pull
Entries 90
Mean 21.91
Std Dev 9.676

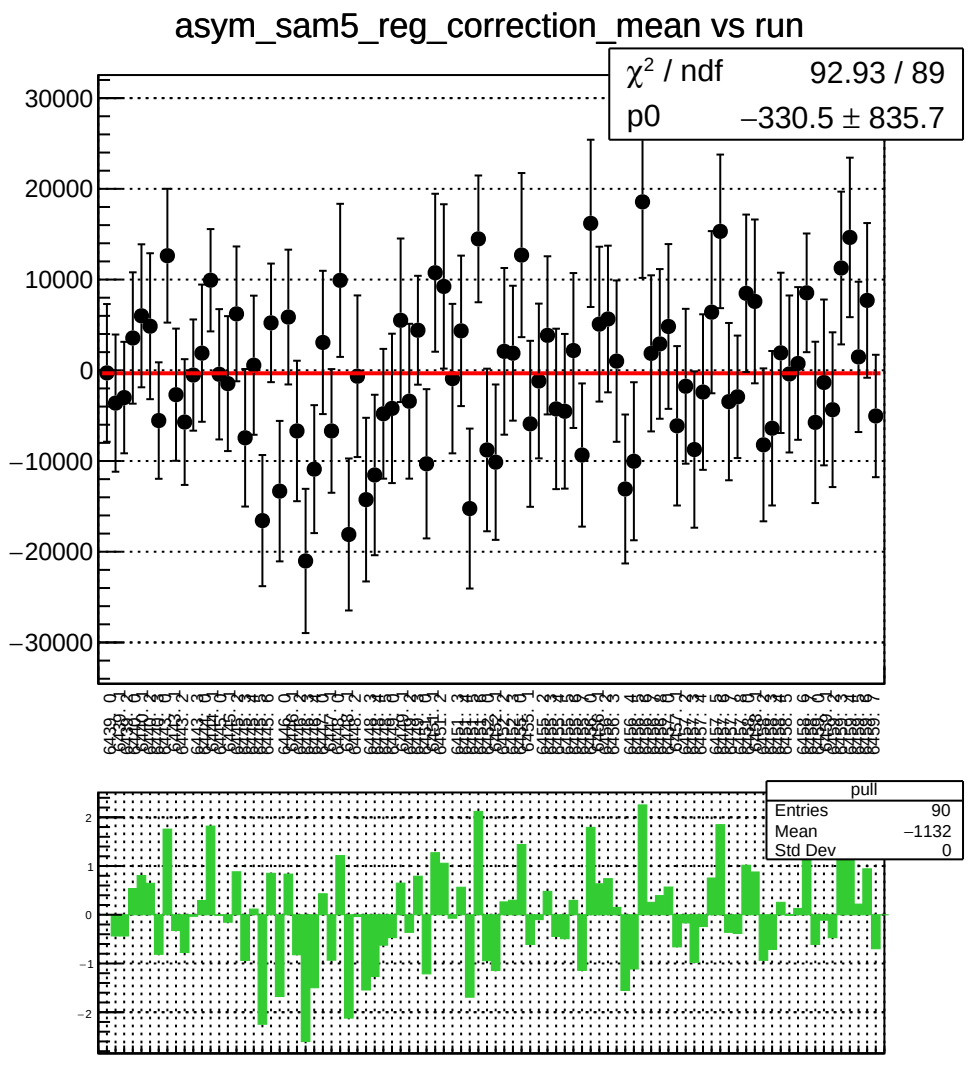

pull1D
Entries 90
Mean 0.06073
Std Dev 0.8641

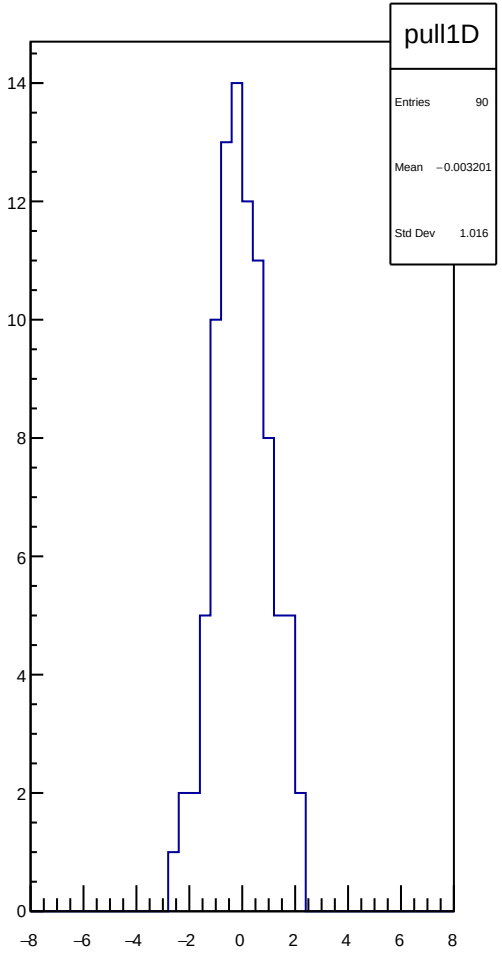

asym_sam4_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.792e+05 / 89
p0 3.831e−11 ± 3.493e−14
0.25
0.2
0.15
0.1
0.05


reg_asym_sam5_mean vs run
χ² / ndf 94.54 / 89
p0 127.5 ± 121.3
4000
2000
0
−2000
−4000
pull
Entries 90
Mean −2.871e+04
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 90
Mean 0.0001314
Std Dev 1.025
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam5_rms vs run
χ² / ndf 1.034e+04 / 89
p0 114.2 ± 0.08579
240
220
200
180
160
140
120
100


asym_sam5_reg_correction_mean vs run
χ² / ndf 92.93 / 89
p0 −330.5 ± 835.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean −1132
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 90
Mean −0.003201
Std Dev 1.016
14
12
10
8
6
4
2
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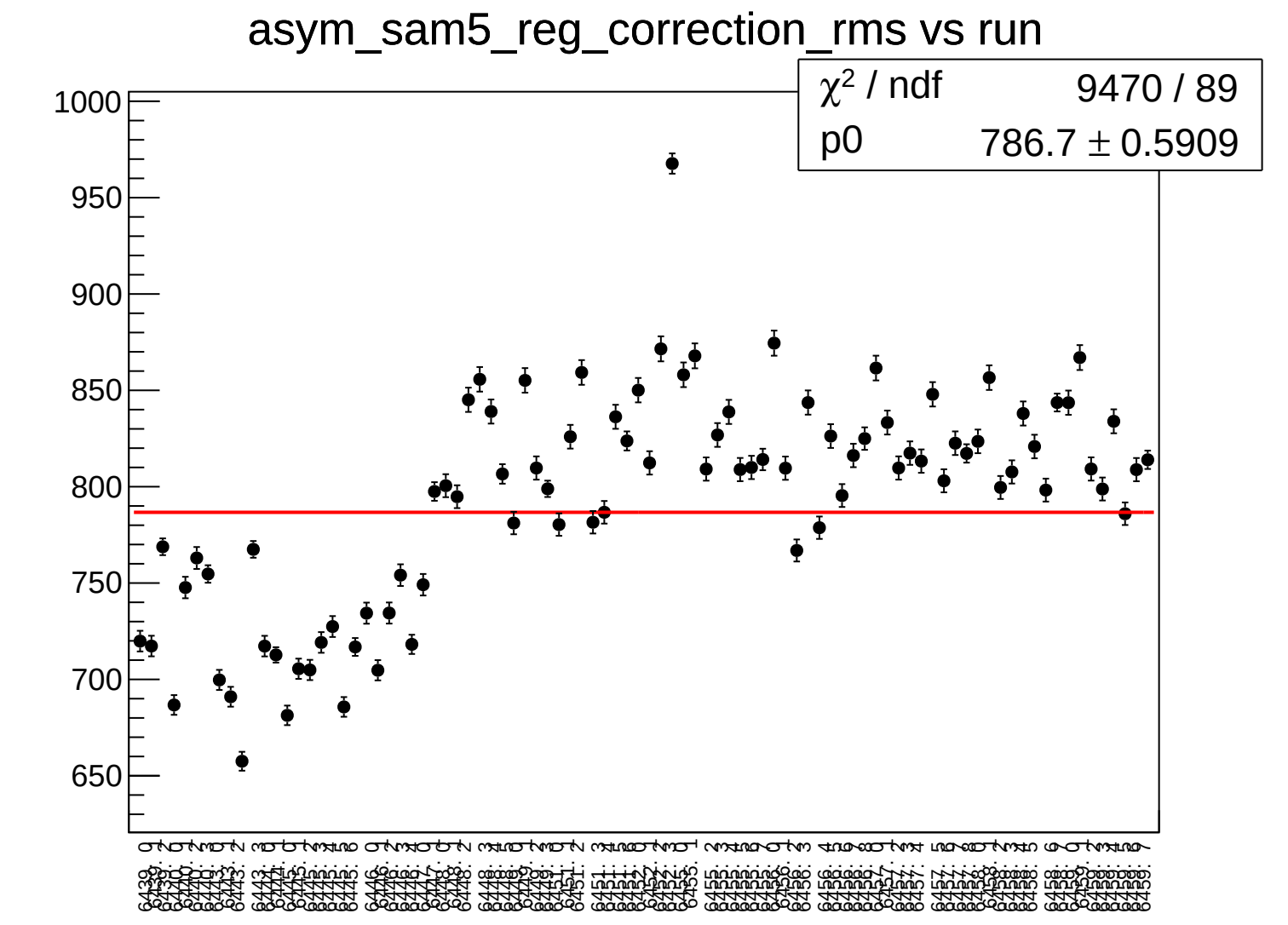
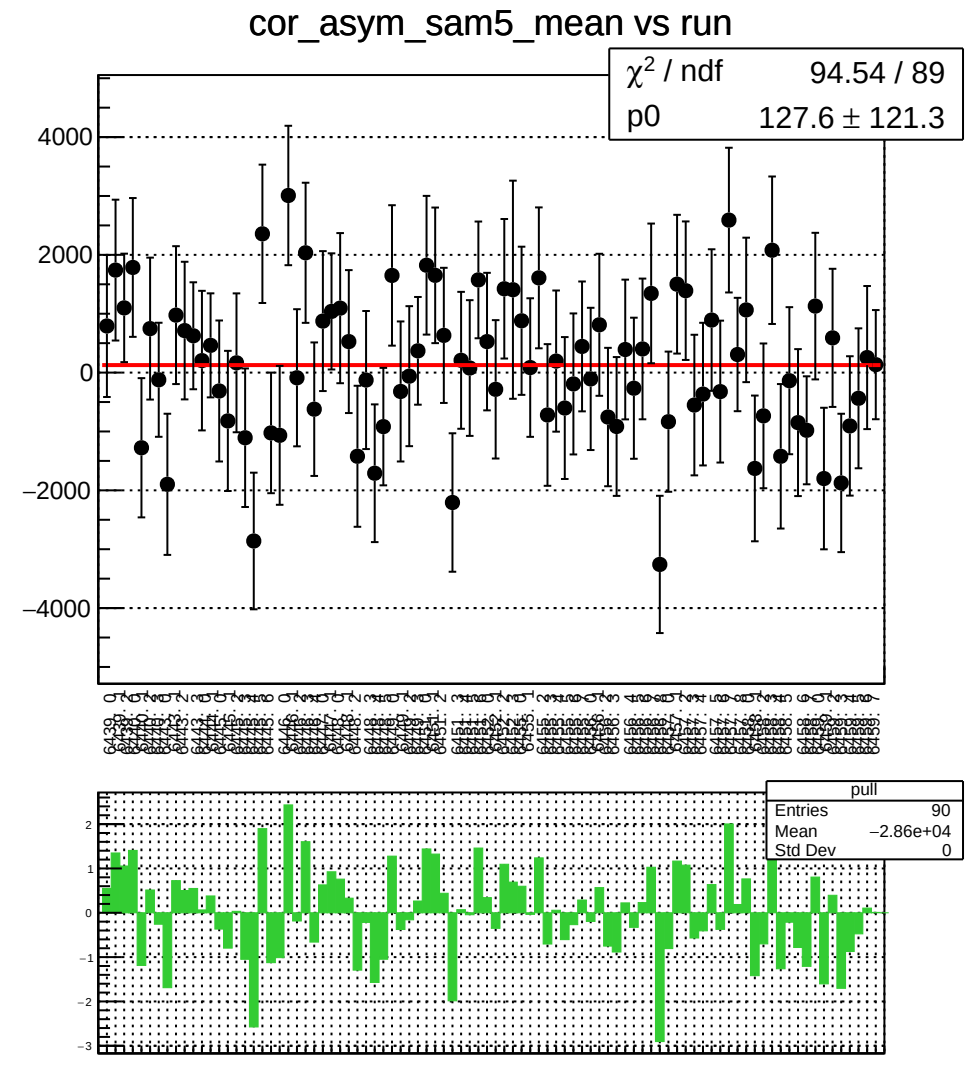
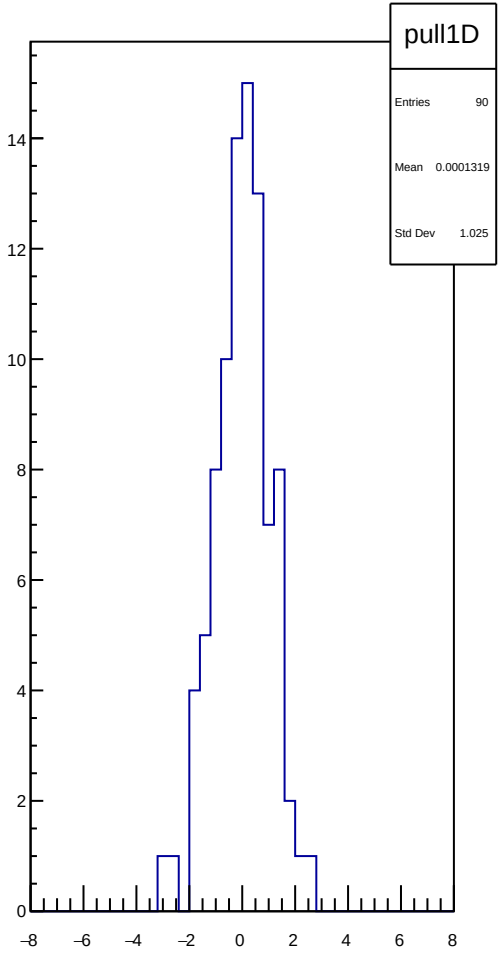
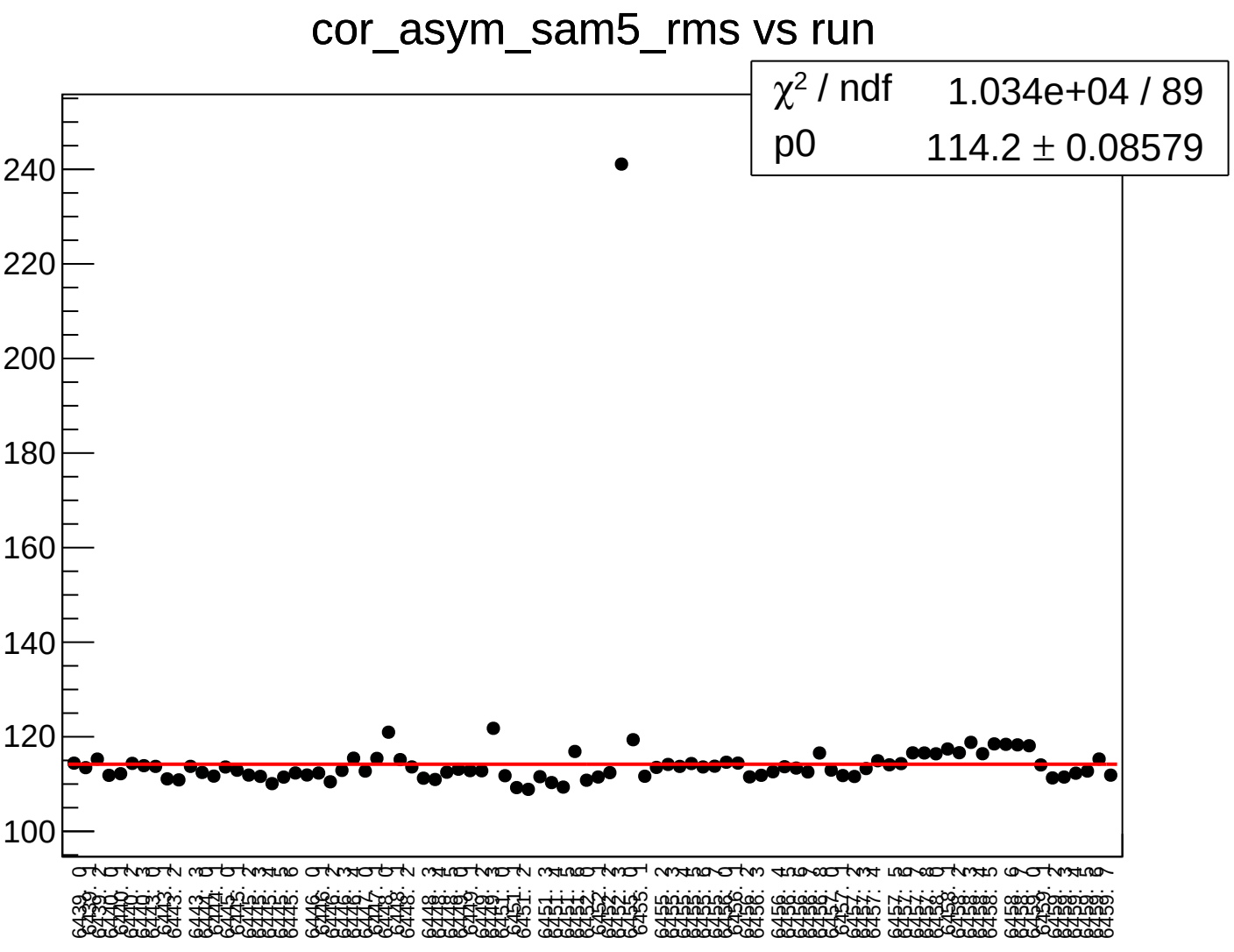
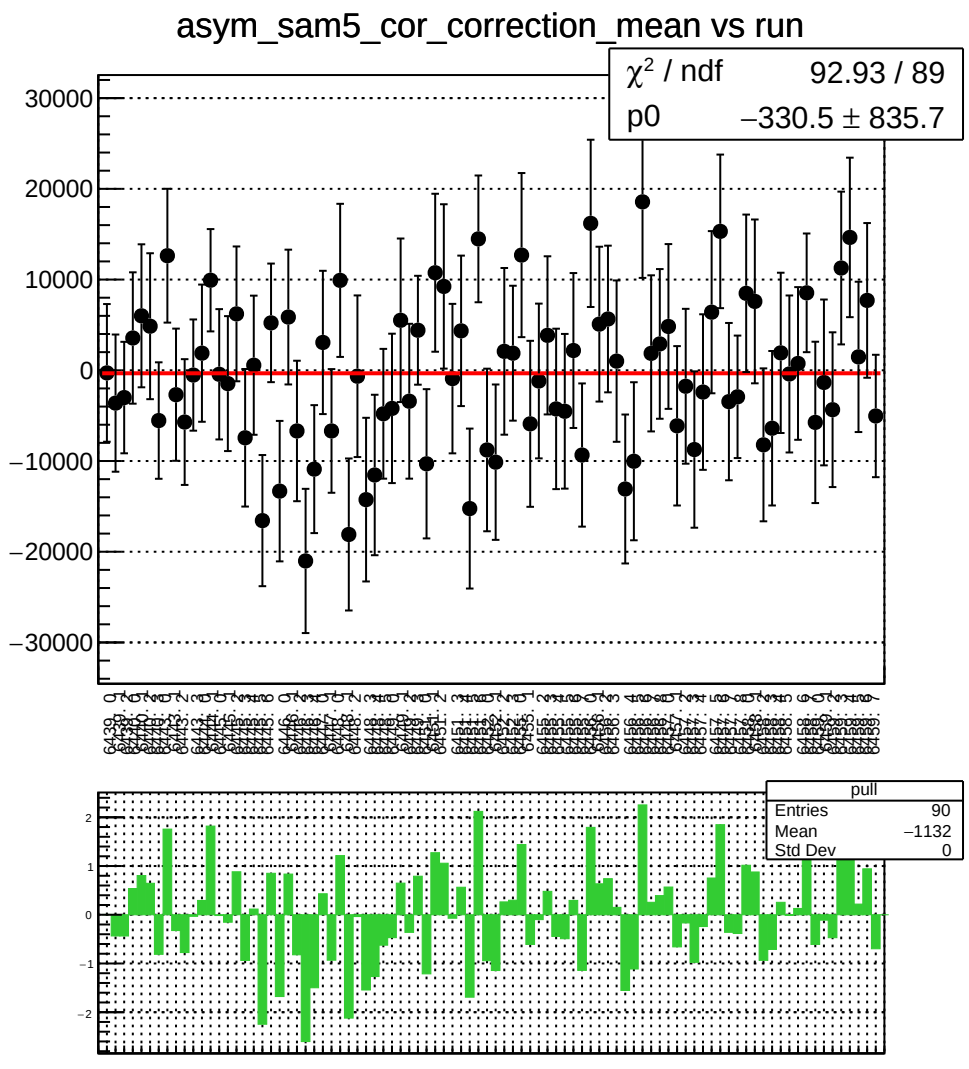
−8
−6
−4
−2
0
2
4
6
8

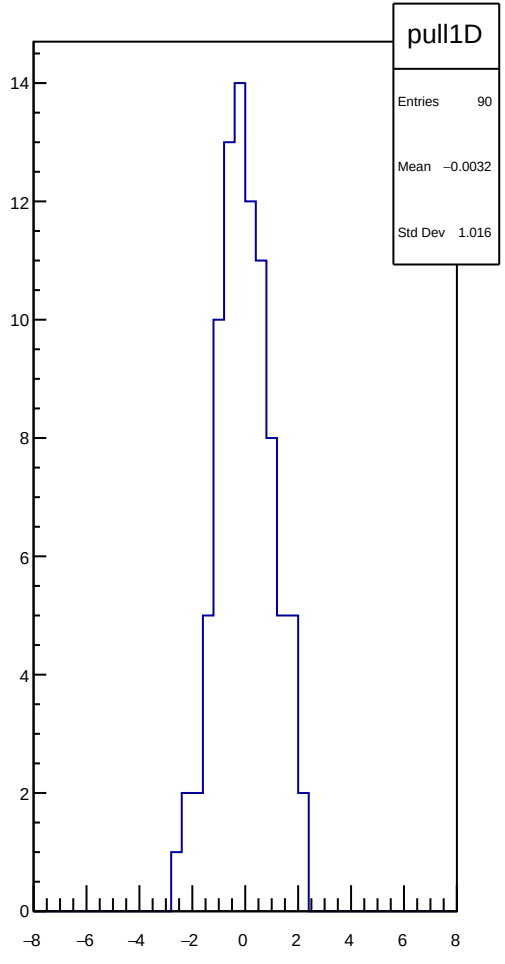

asym_sam5_reg_correction_rms vs run
χ² / ndf 9470 / 89
p0 786.7 ± 0.5909
1000
950
900
850
800
750
700
650


cor_asym_sam5_mean vs run
χ² / ndf 94.54 / 89
p0 127.6 ± 121.3
4000
2000
0
−2000
−4000
pull
Entries 90
Mean −2.86e+04
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 90
Mean 0.0001319
Std Dev 1.025
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam5_rms vs run
χ² / ndf 1.034e+04 / 89
p0 114.2 ± 0.08579
240
220
200
180
160
140
120
100


asym_sam5_cor_correction_mean vs run
χ² / ndf 92.93 / 89
p0 −330.5 ± 835.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean −1132
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 90
Mean −0.0032
Std Dev 1.016
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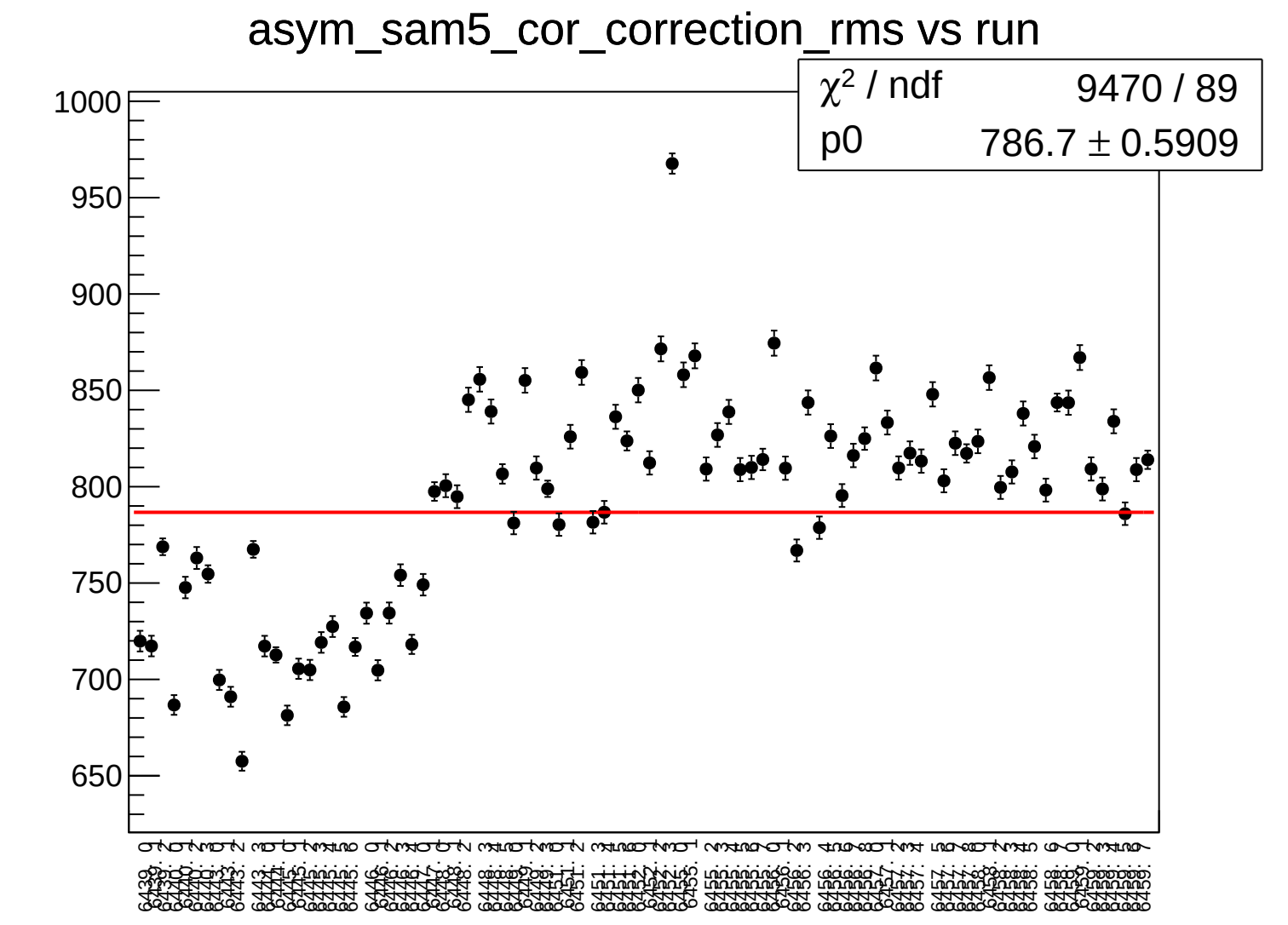
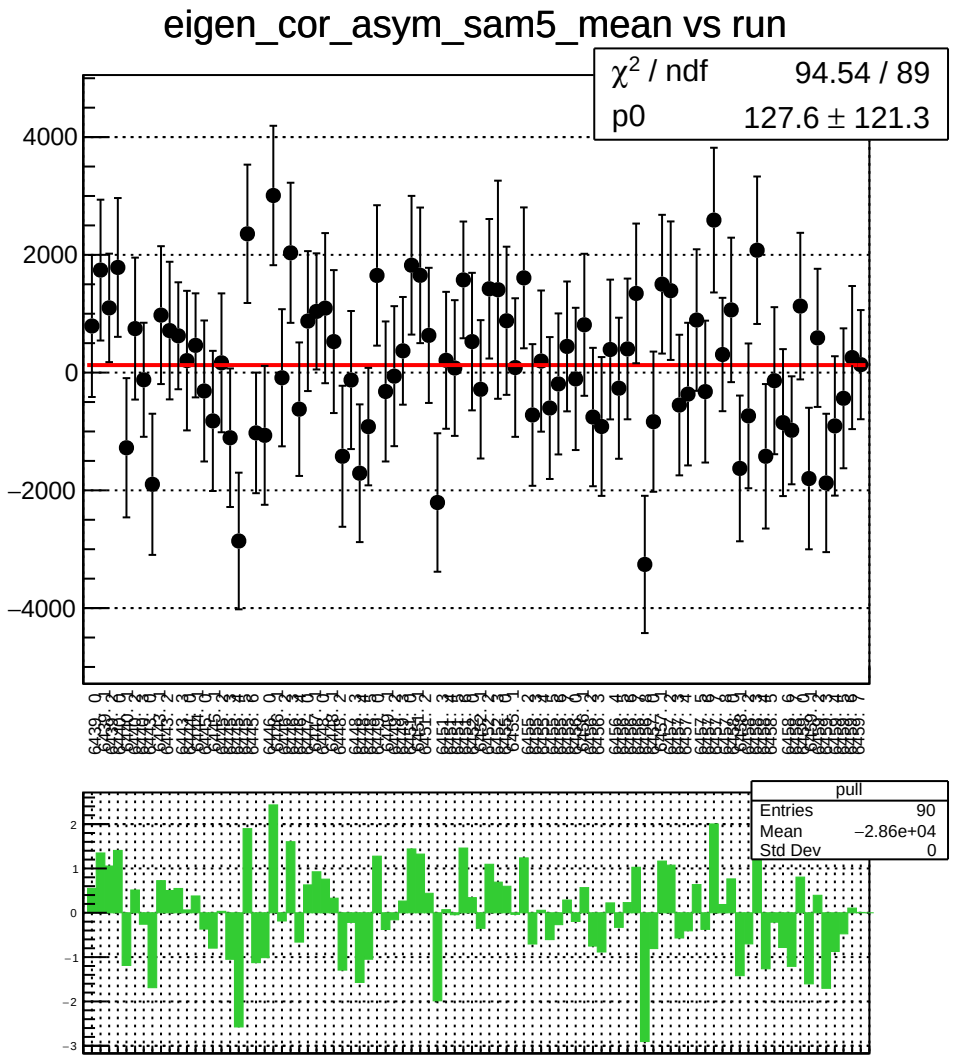
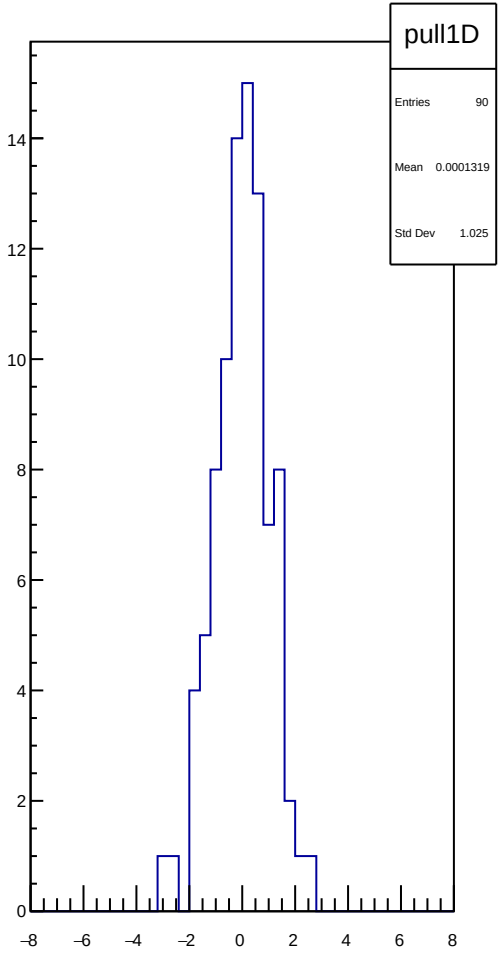
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam5_cor_correction_rms vs run
χ² / ndf 9470 / 89
p0 786.7 ± 0.5909
1000
950
900
850
800
750
700
650


eigen_cor_asym_sam5_mean vs run
χ² / ndf 94.54 / 89
p0 127.6 ± 121.3
4000
2000
0
−2000
−4000
pull
Entries 90
Mean −2.86e+04
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 90
Mean 0.0001319
Std Dev 1.025
14
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10
8
6
4
2
0
−8
−6
−4
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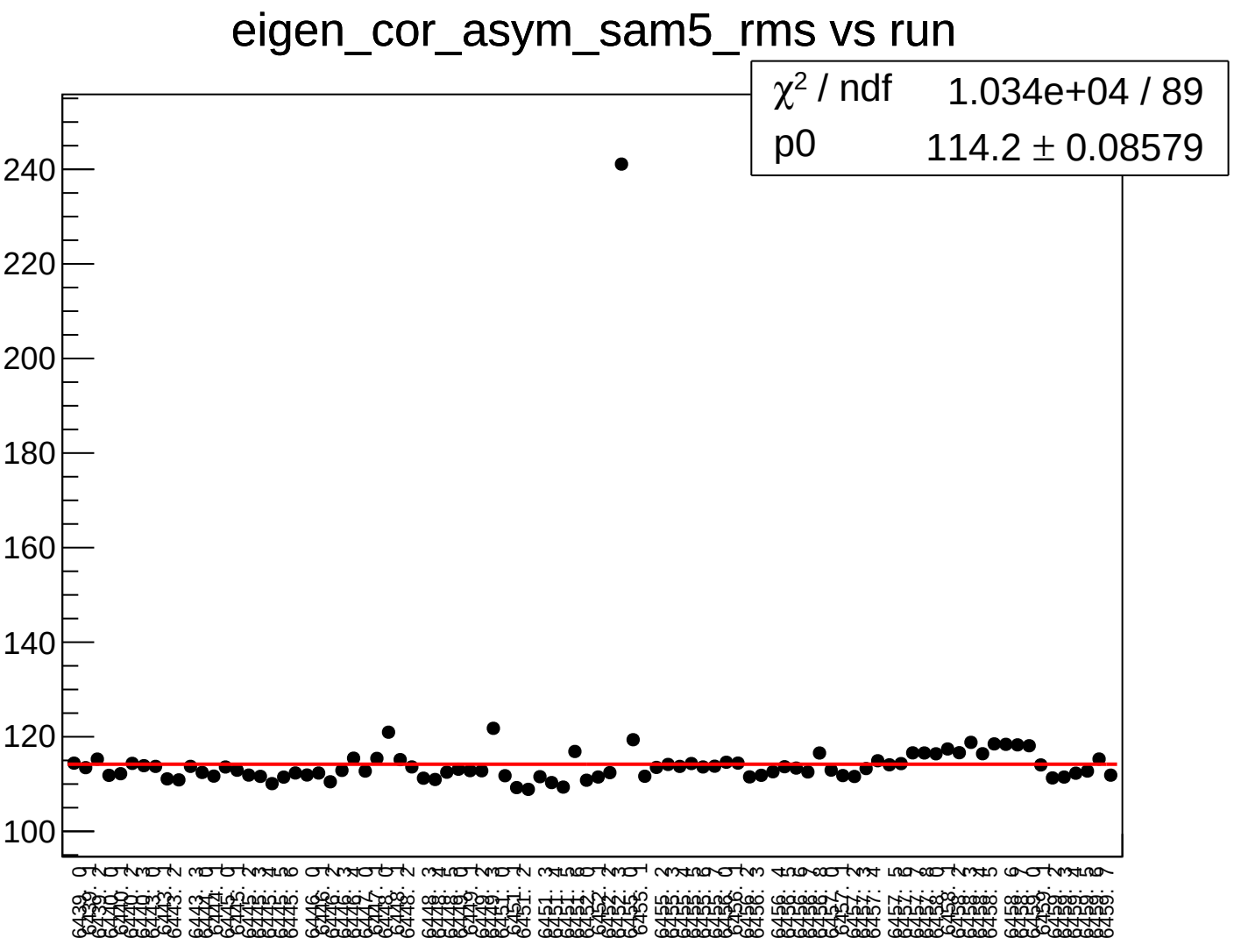
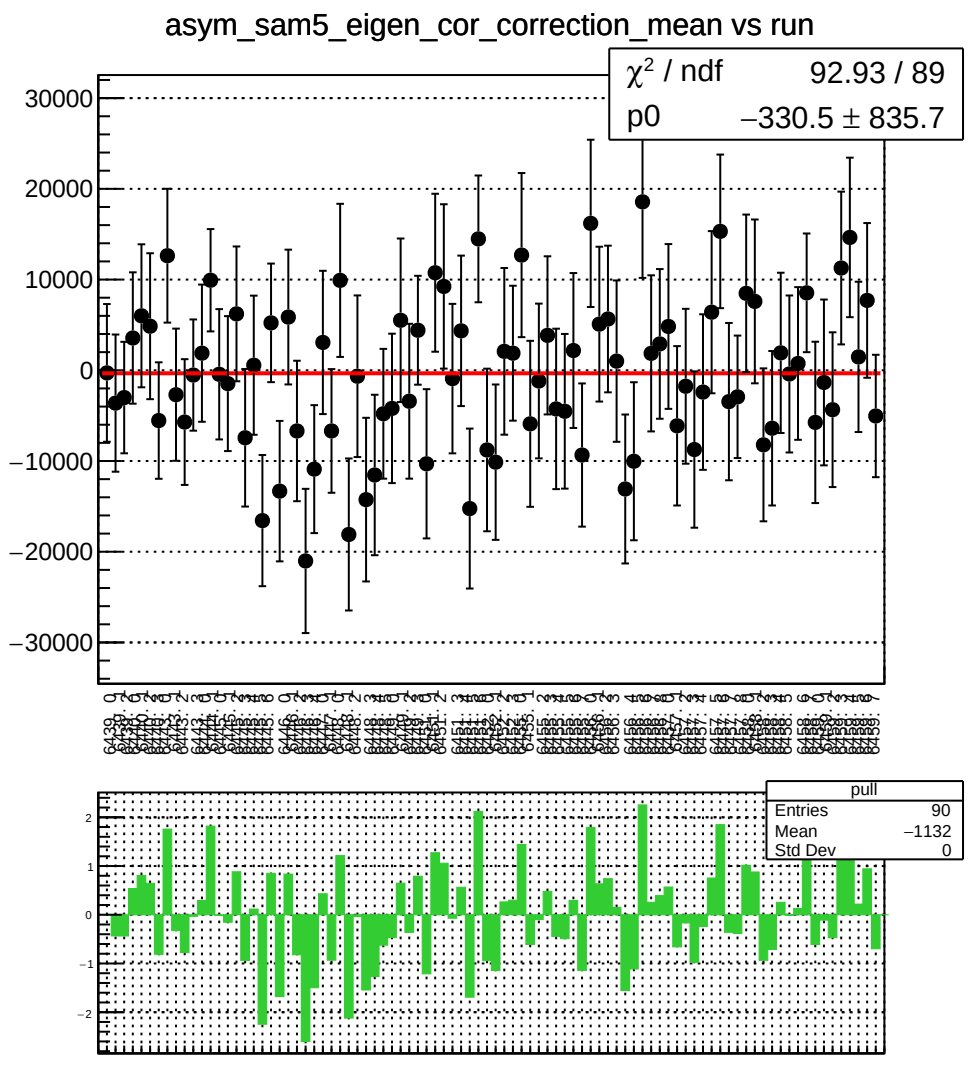
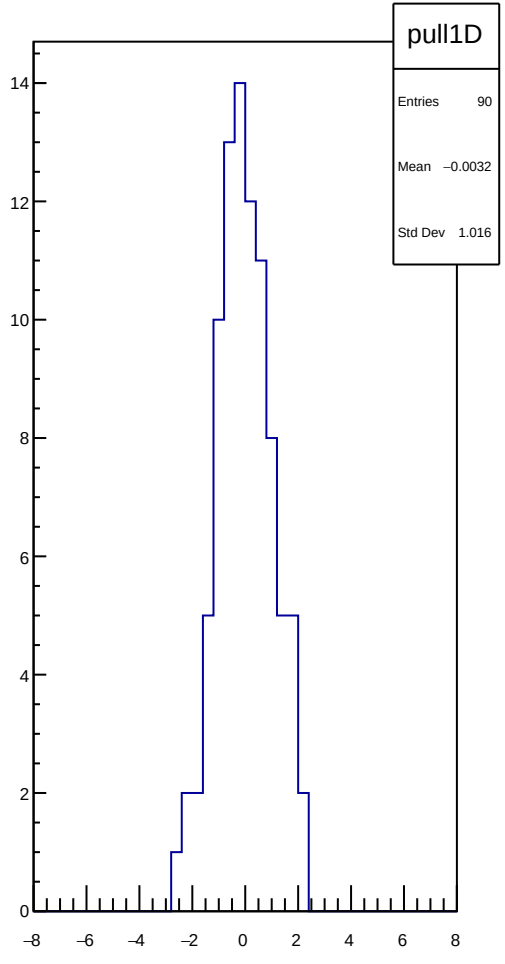
2
4
6
8


eigen_cor_asym_sam5_rms vs run
χ² / ndf 1.034e+04 / 89
p0 114.2 ± 0.08579
240
220
200
180
160
140
120
100


asym_sam5_eigen_cor_correction_mean vs run
χ² / ndf 92.93 / 89
p0 −330.5 ± 835.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean −1132
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 90
Mean −0.0032
Std Dev 1.016
14
12
10
8
6
4
2
0
−8
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−4
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2
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6
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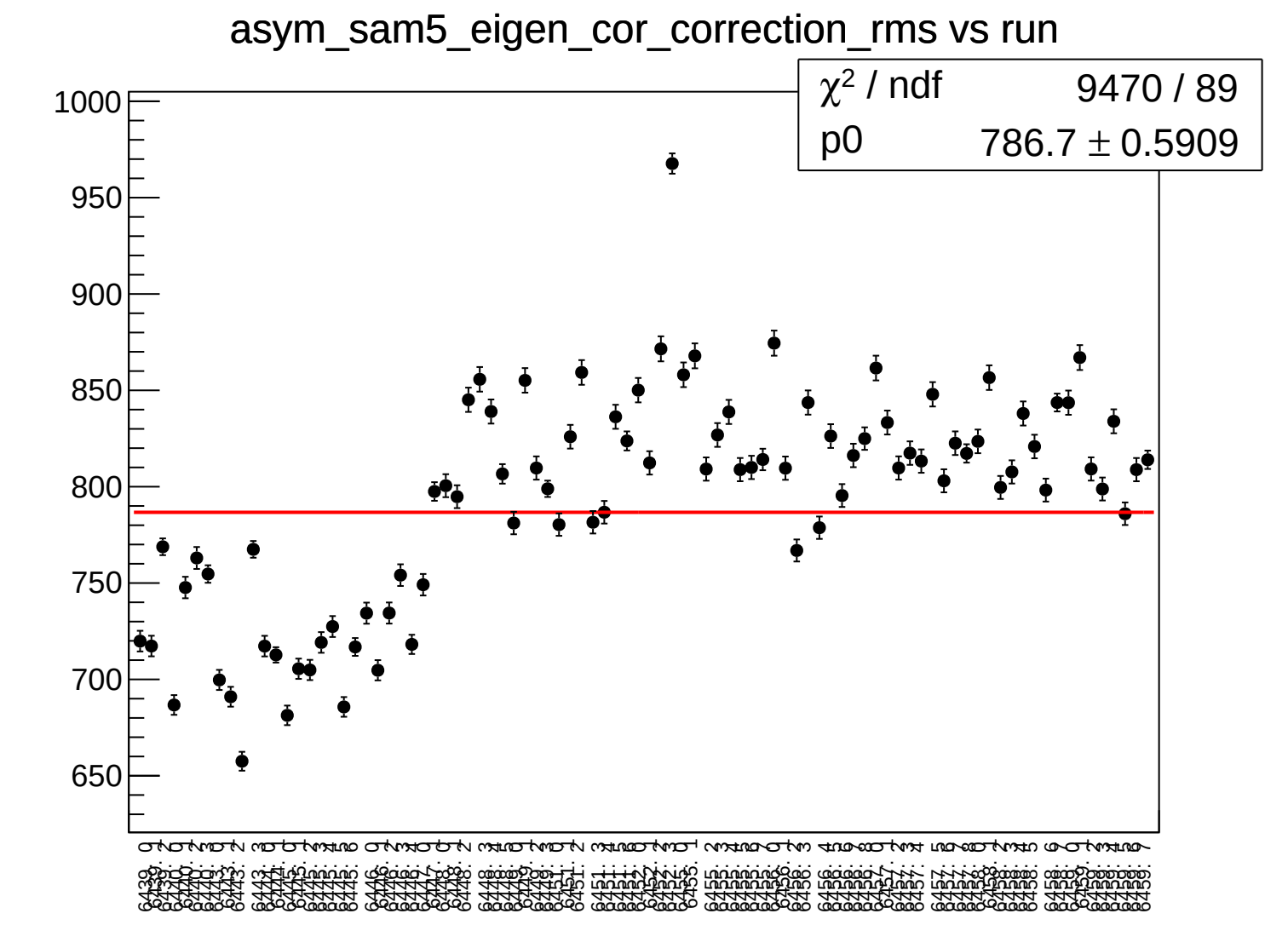
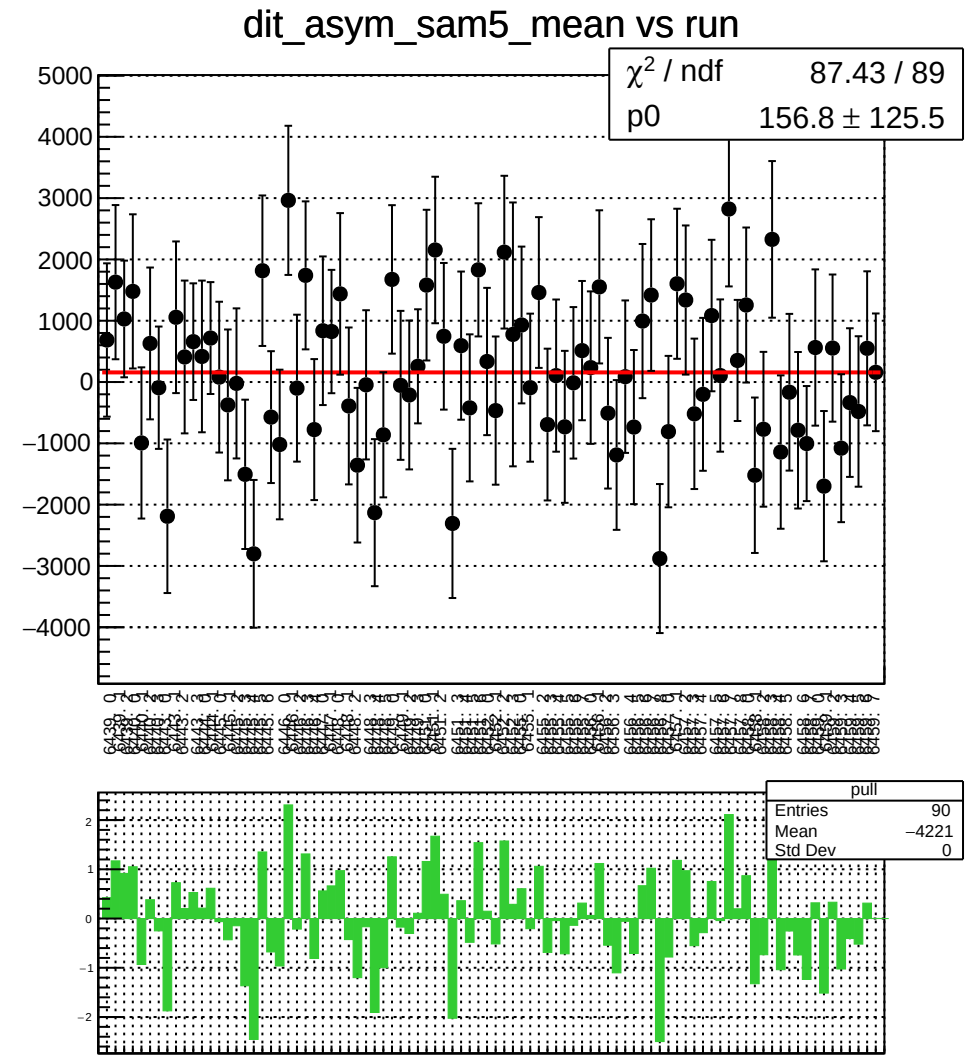
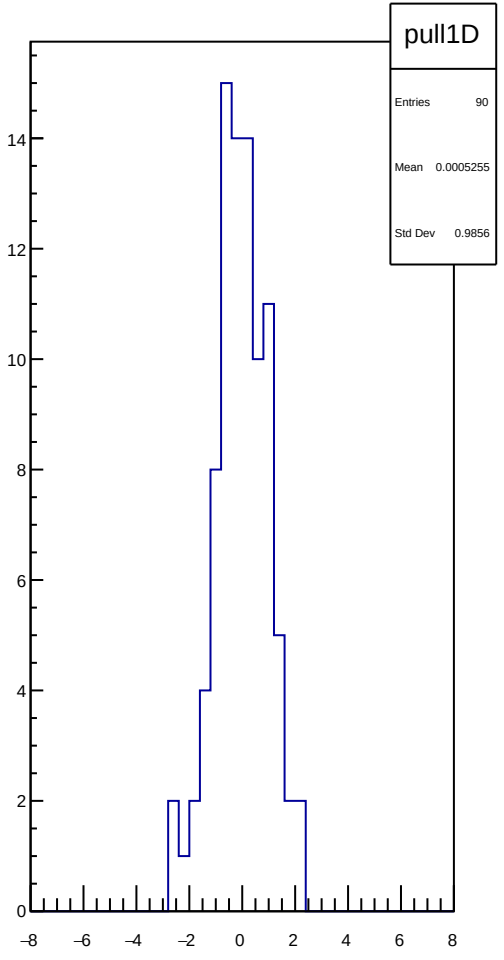
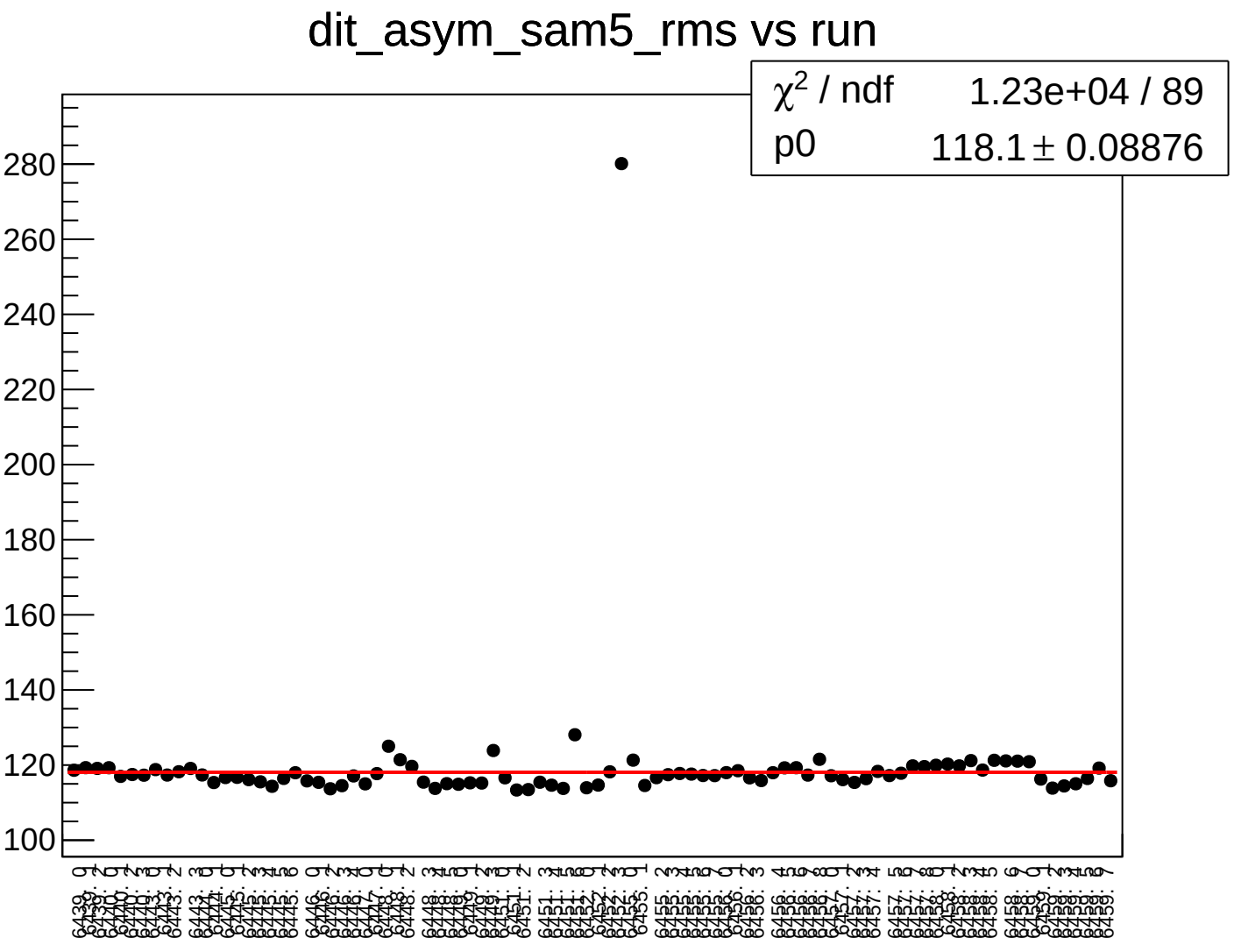
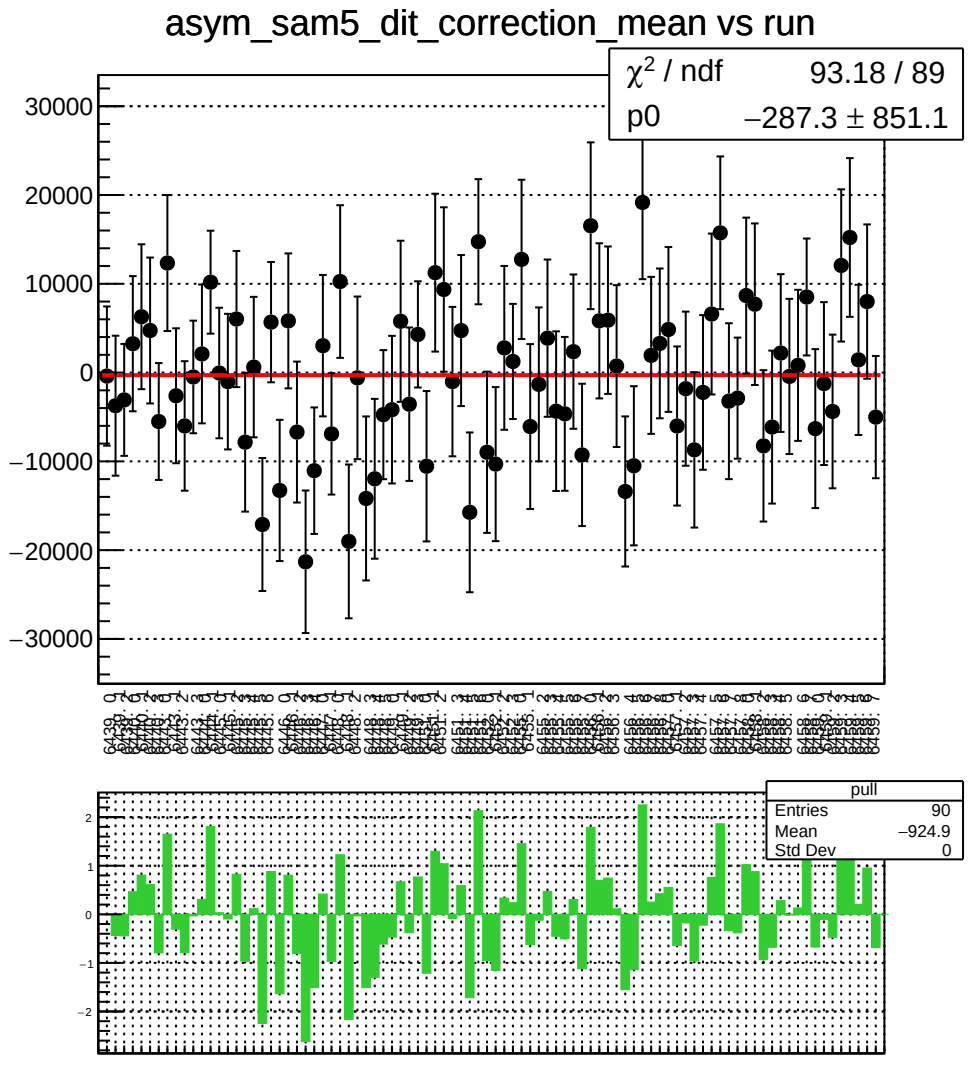
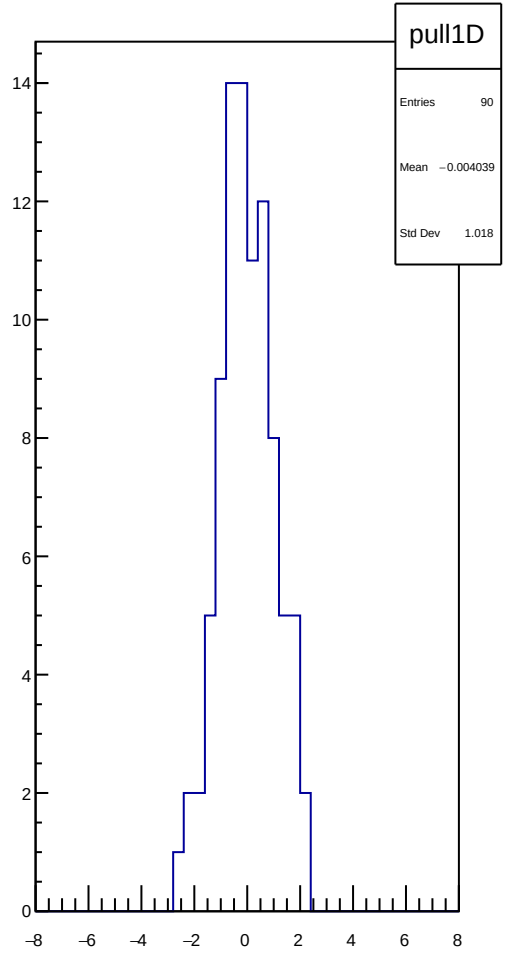

asym_sam5_eigen_cor_correction_rms vs run
χ² / ndf 9470 / 89
p0 786.7 ± 0.5909
1000
950
900
850
800
750
700
650

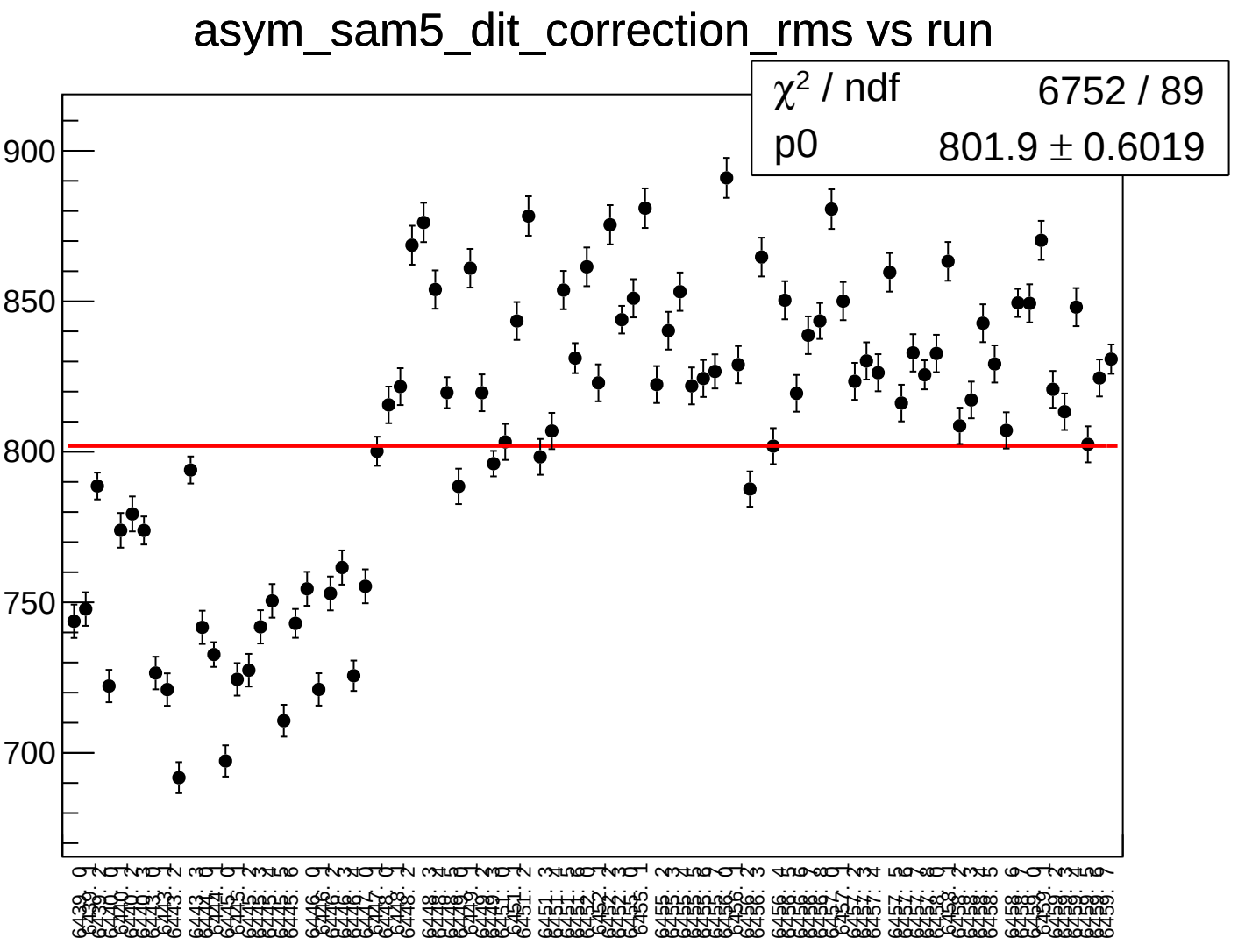

dit_asym_sam5_mean vs run
χ^2 / ndf 87.43 / 89
p0 156.8 ± 125.5
pull
Entries 90
Mean −4221
Std Dev 0

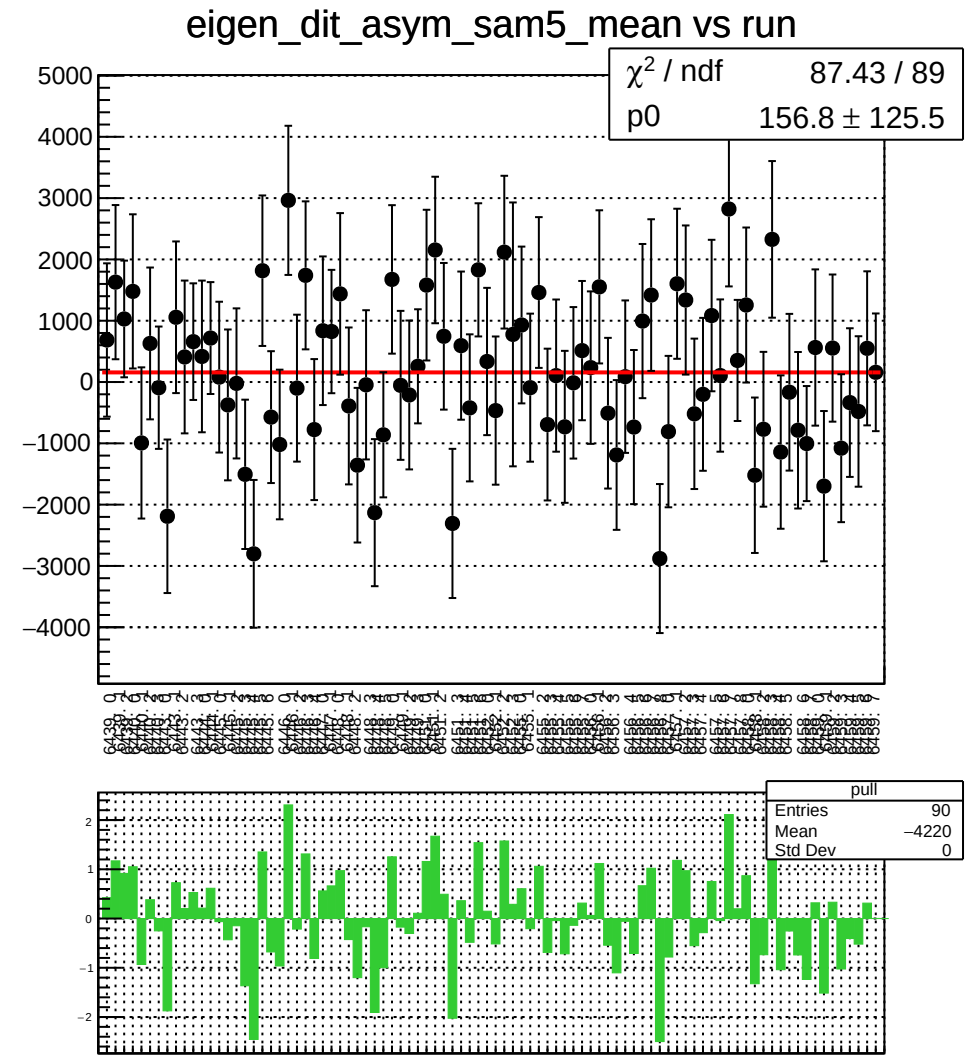

pull1D
Entries 90
Mean 0.0005255
Std Dev 0.9856

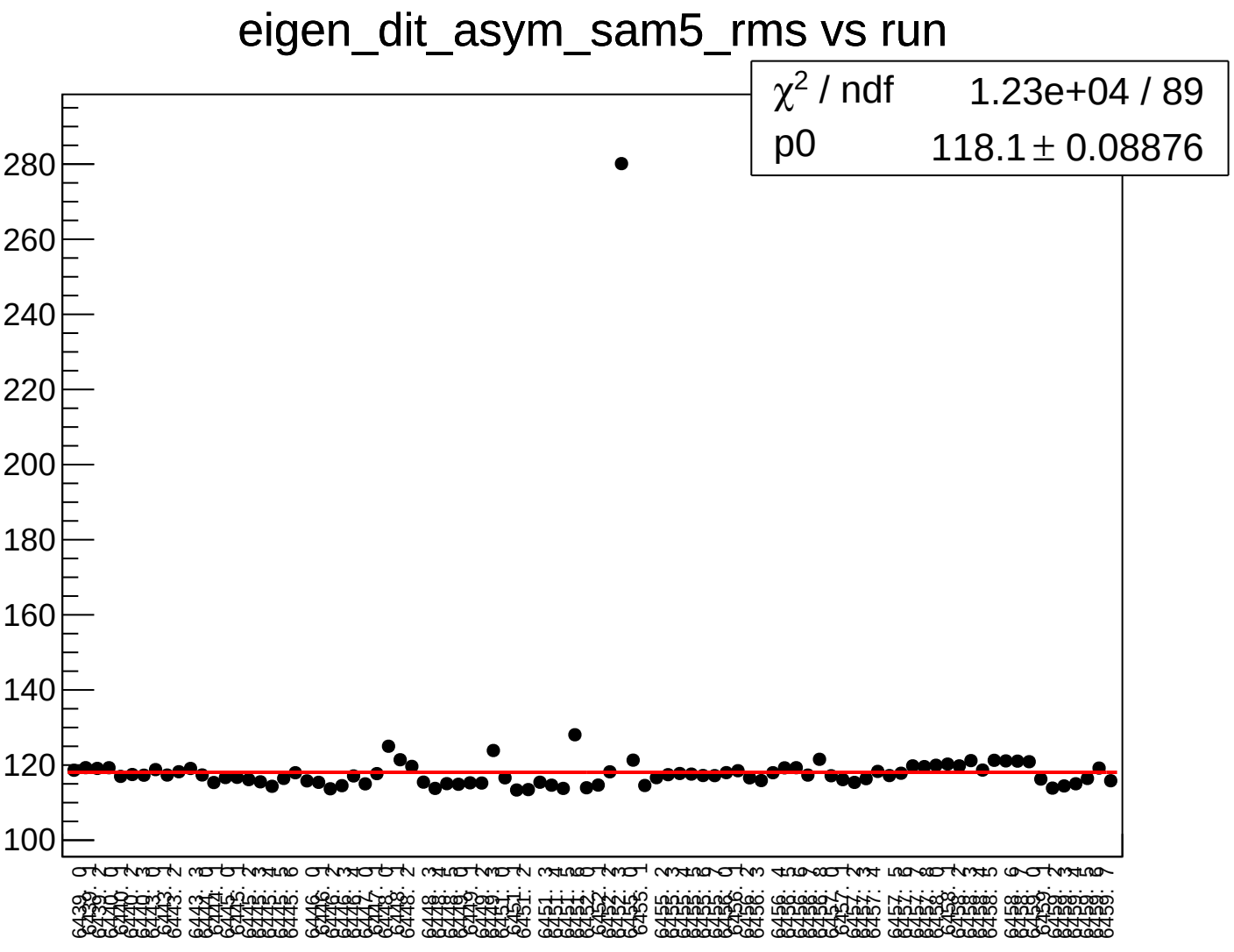

dit_asym_sam5_rms vs run
χ^2 / ndf 1.23e+04 / 89
p0 118.1 ± 0.08876
280
260
240
220
200
180
160
140
120
100

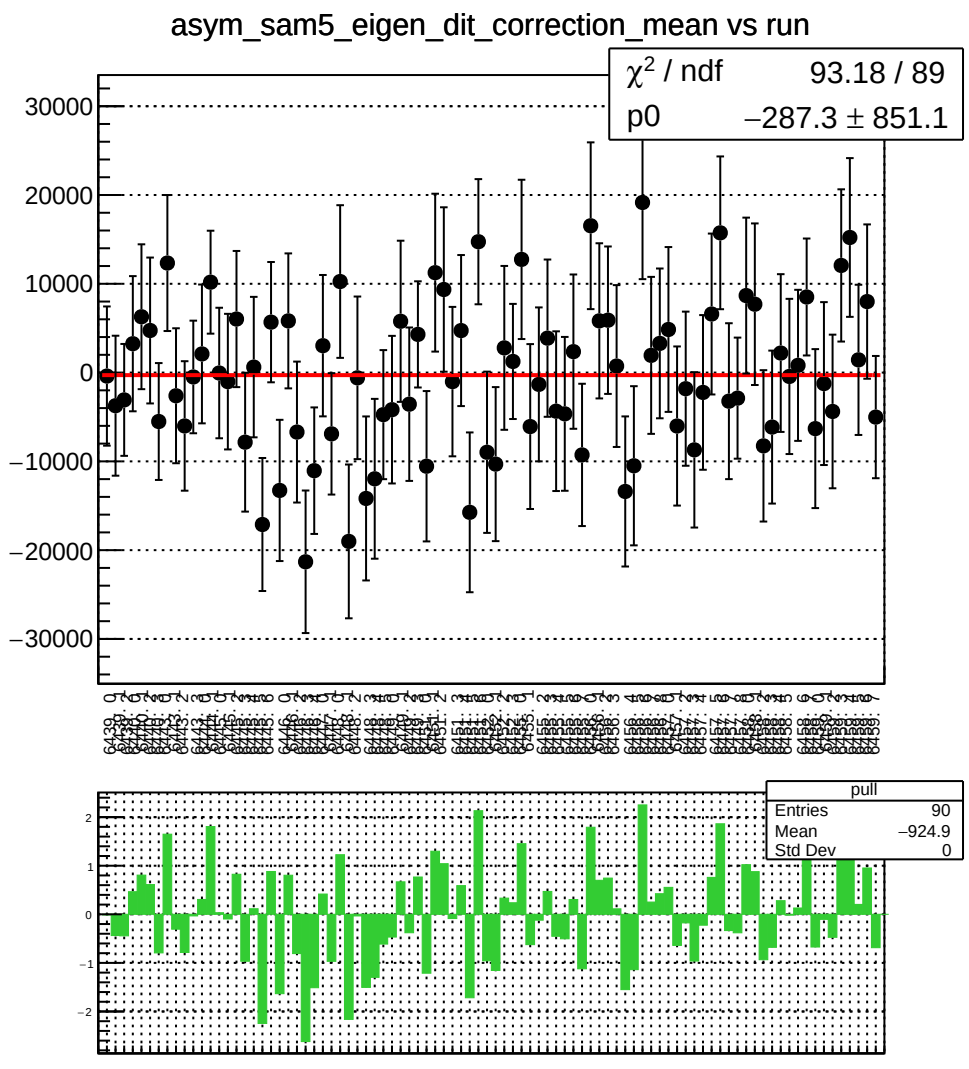

asym_sam5_dit_correction_mean vs run
χ² / ndf 93.18 / 89
p0 −287.3 ± 851.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean −924.9
Std Dev 0
2
1
0
−1
−2

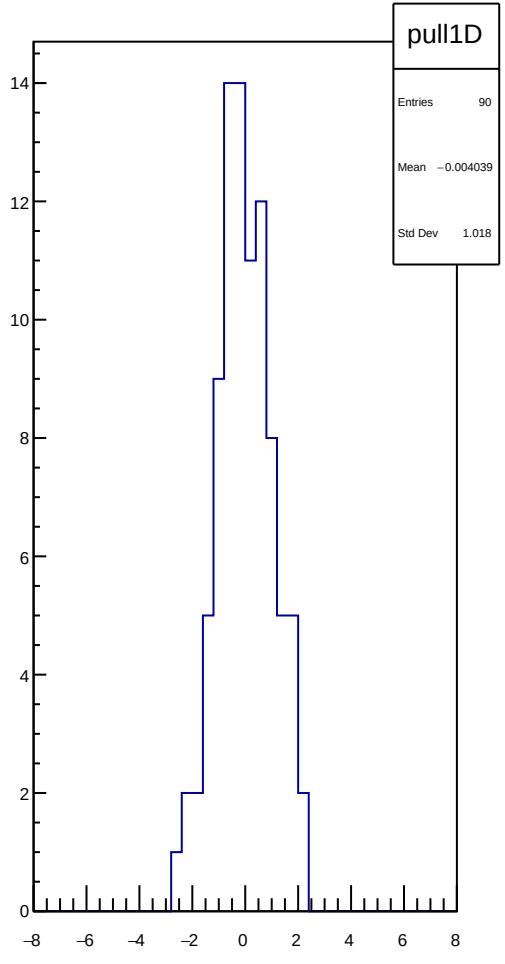

pull1D
Entries 90
Mean −0.004039
Std Dev 1.018
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

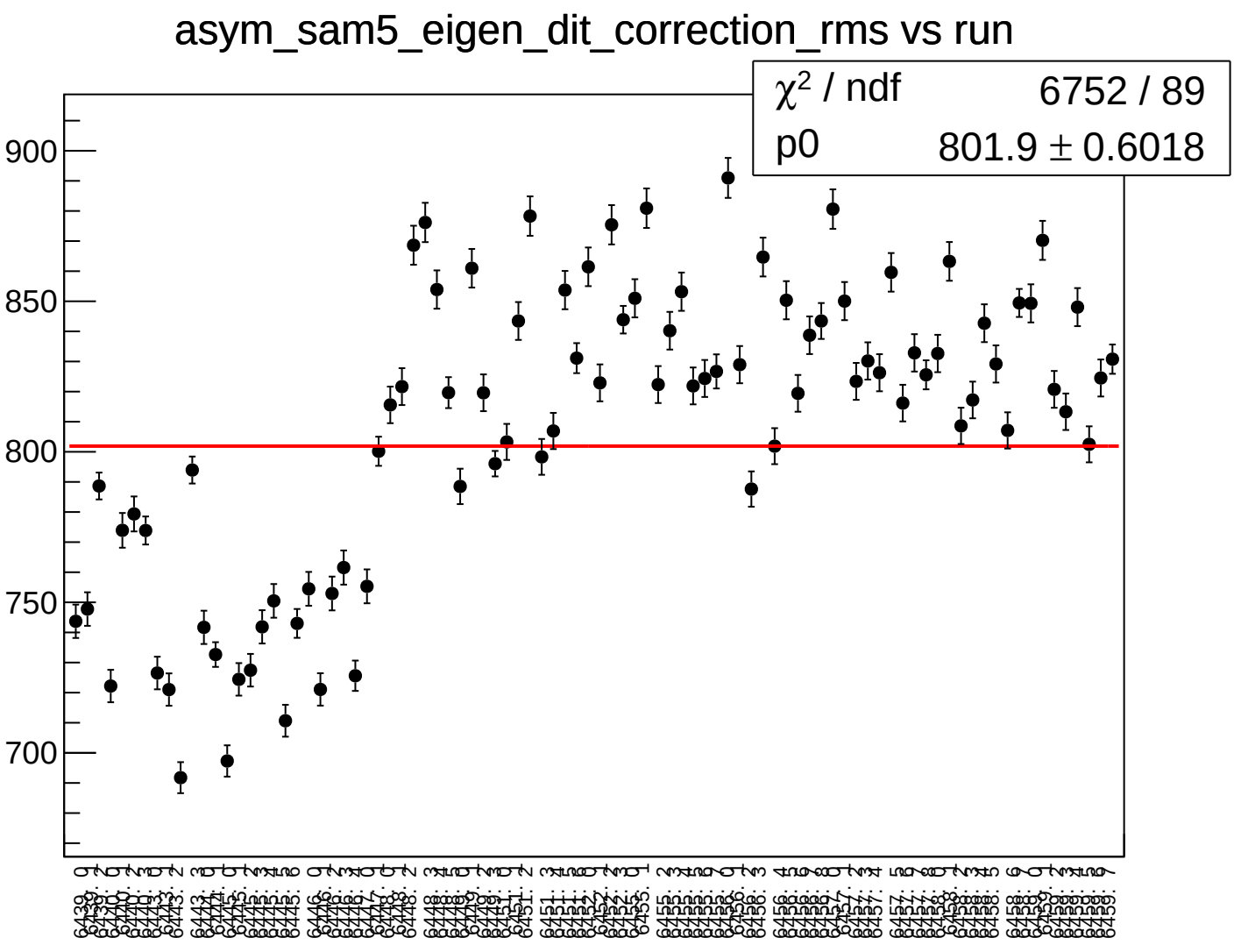

asym_sam5_dit_correction_rms vs run
χ² / ndf 6752 / 89
p0 801.9 ± 0.6019
900
850
800
750
700

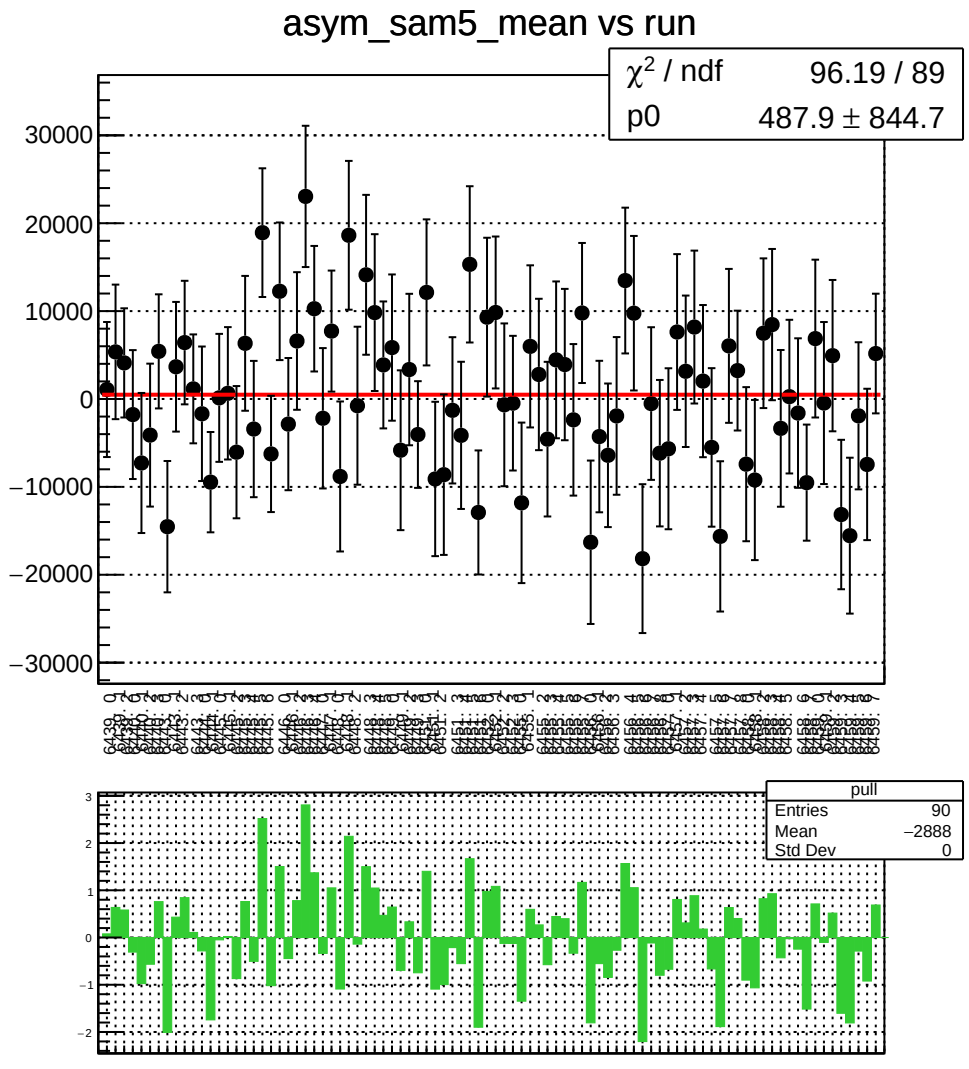

eigen_dit_asym_sam5_mean vs run
χ² / ndf 87.43 / 89
p0 156.8 ± 125.5
pull
Entries 90
Mean −4220
Std Dev 0
pull1D
Entries 90
Mean 0.0005256
Std Dev 0.9856

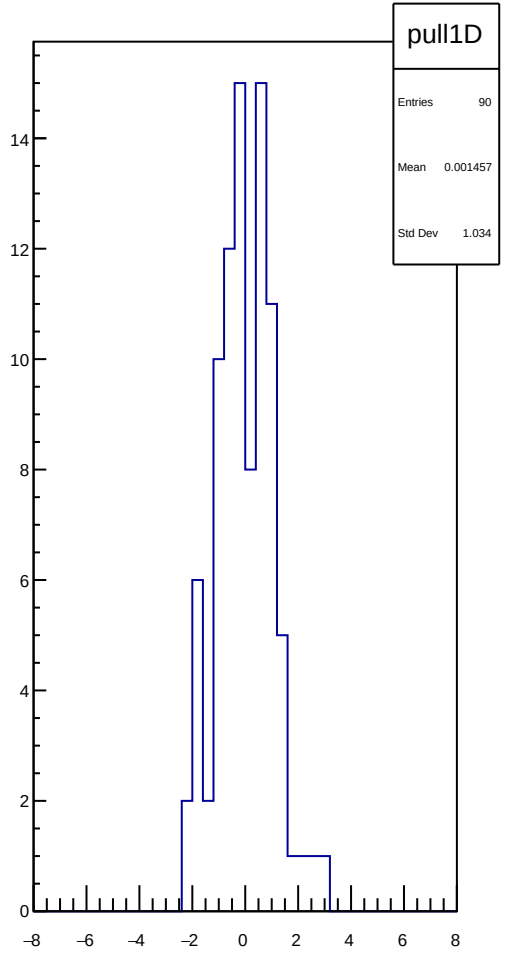

eigen_dit_asym_sam5_rms vs run
χ^2 / ndf 1.23e+04 / 89
p0 118.1 ± 0.08876
280
260
240
220
200
180
160
140
120
100

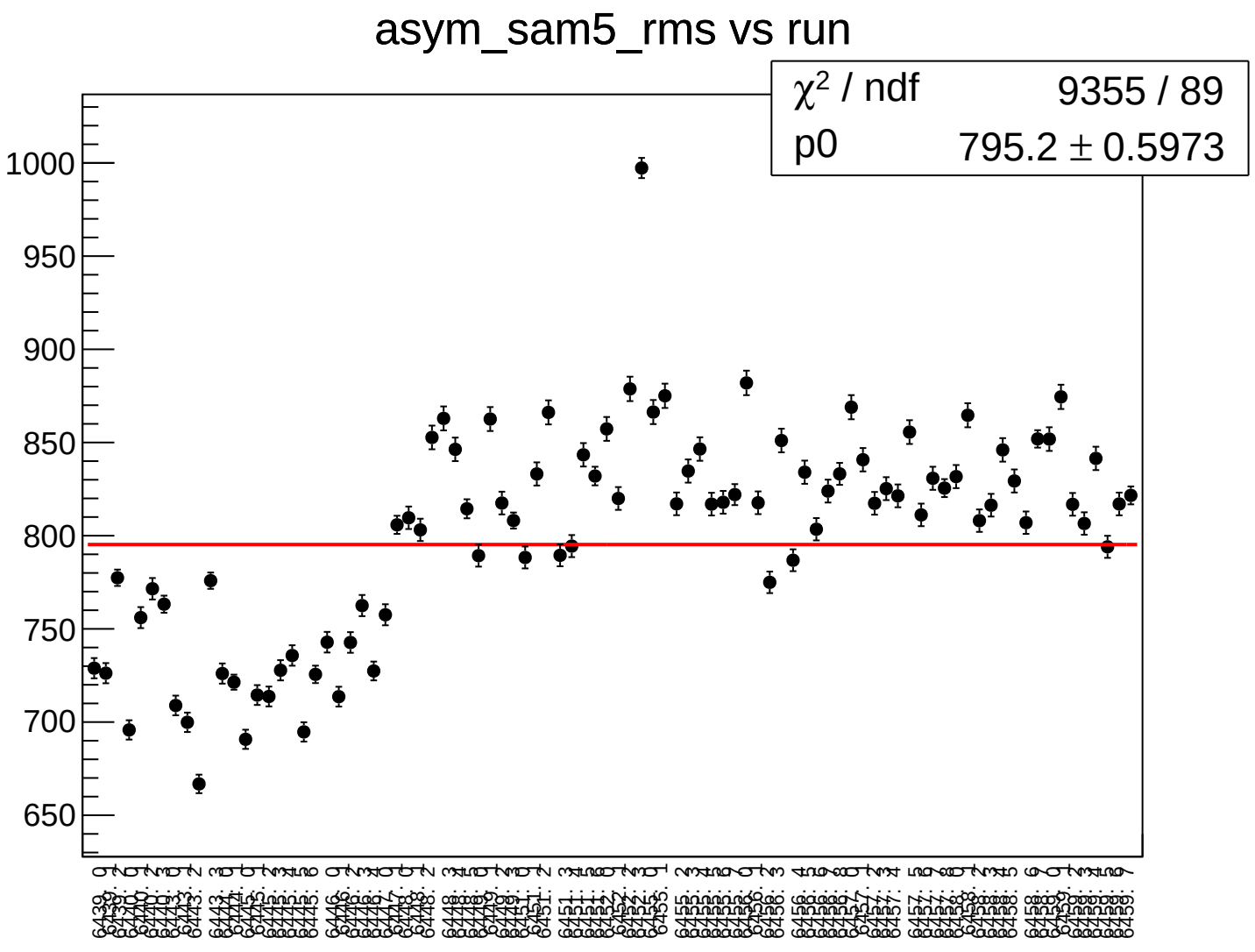

asym_sam5_eigen_dit_correction_mean vs run
χ² / ndf 93.18 / 89
p0 −287.3 ± 851.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean −924.9
Std Dev 0
2
1
0
−1
−2

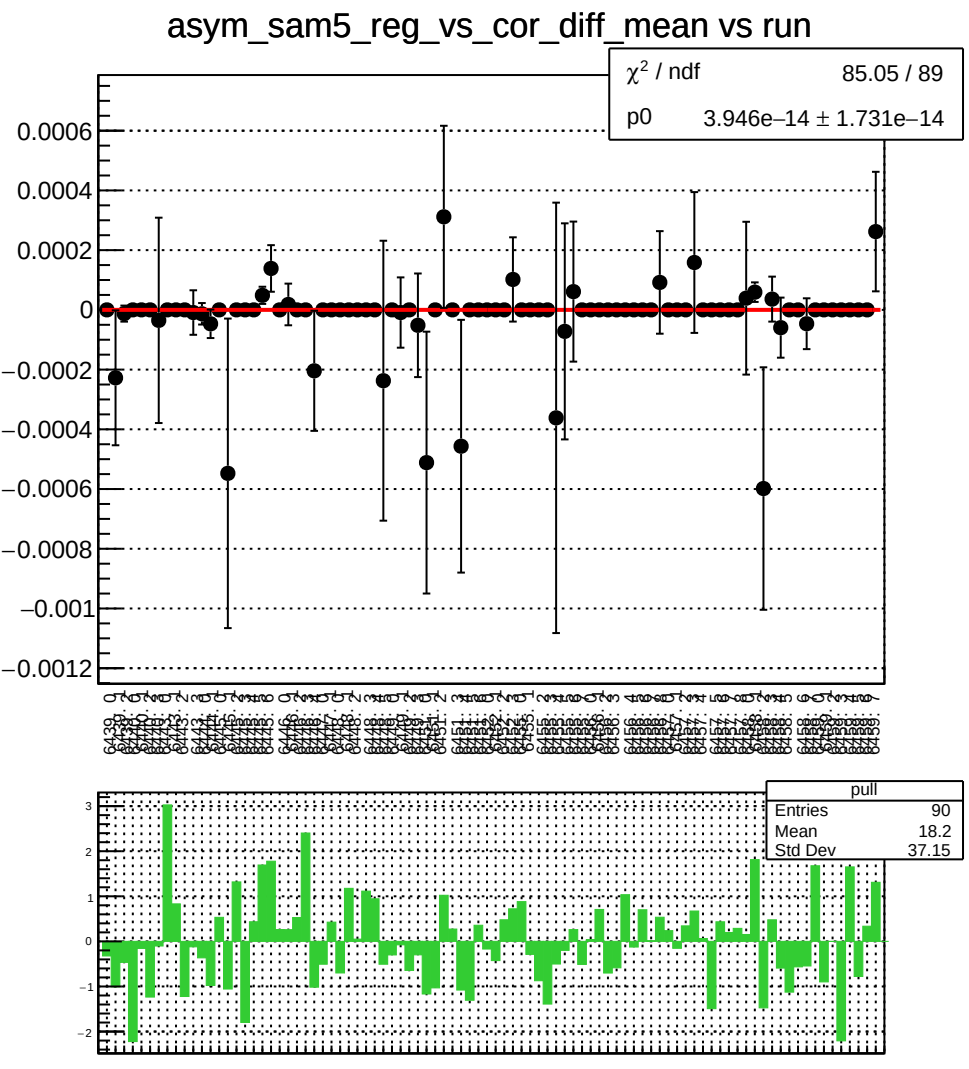

pull1D
Entries 90
Mean −0.004039
Std Dev 1.018
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

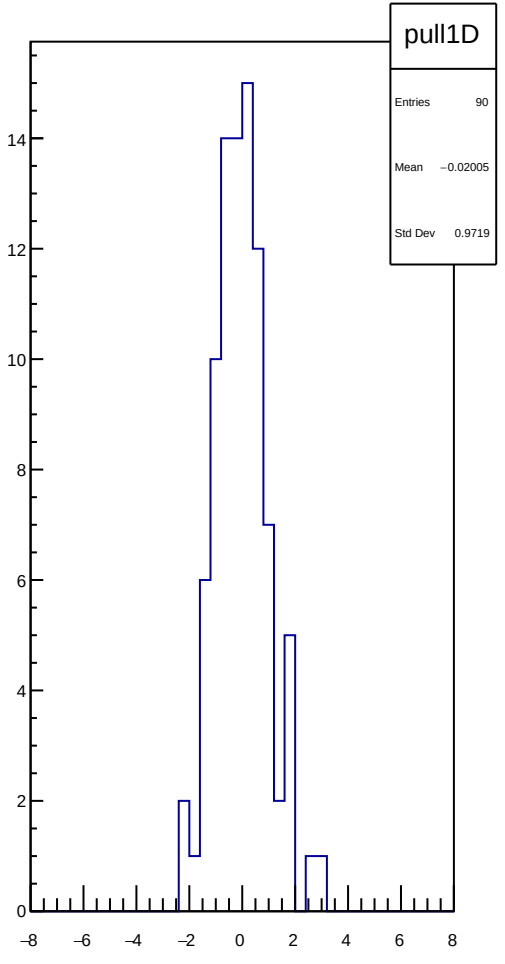

asym_sam5_eigen_dit_correction_rms vs run
χ² / ndf 6752 / 89
p0 801.9 ± 0.6018
900
850
800
750
700

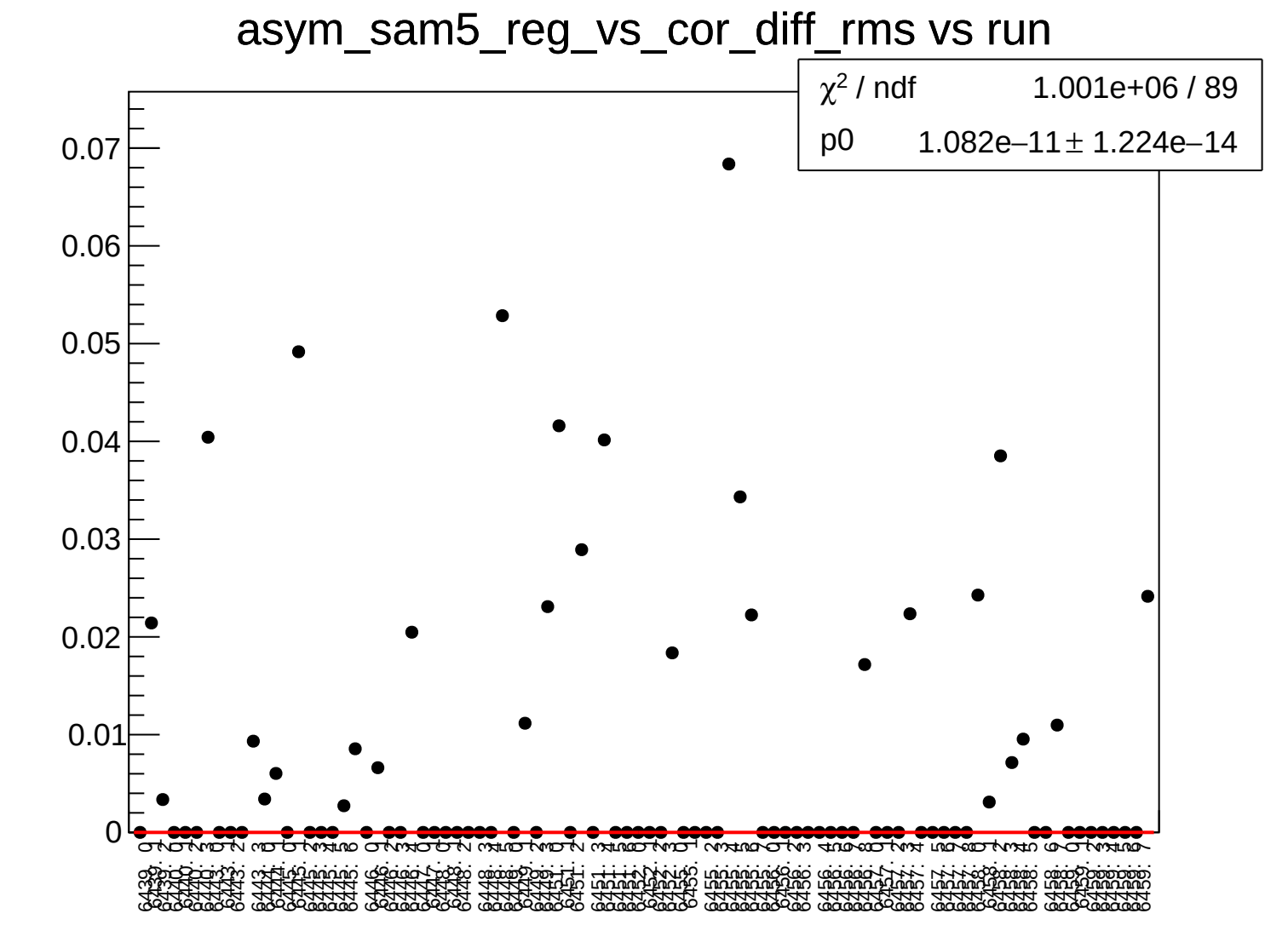

asym_sam5_mean vs run
χ^2 / ndf 96.19 / 89
p0 487.9 ± 844.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean −2888
Std Dev 0
3
2
1
0
−1
−2

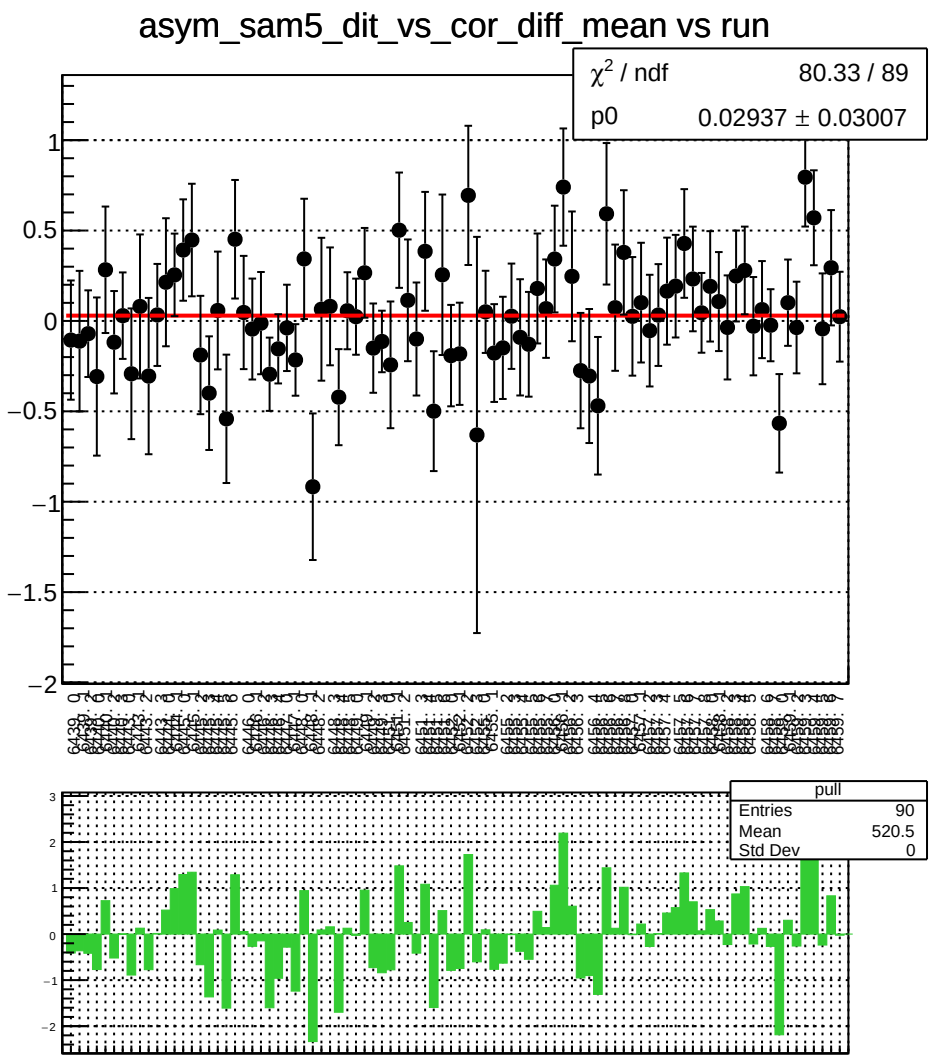

pull1D
Entries 90
Mean 0.001457
Std Dev 1.034
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

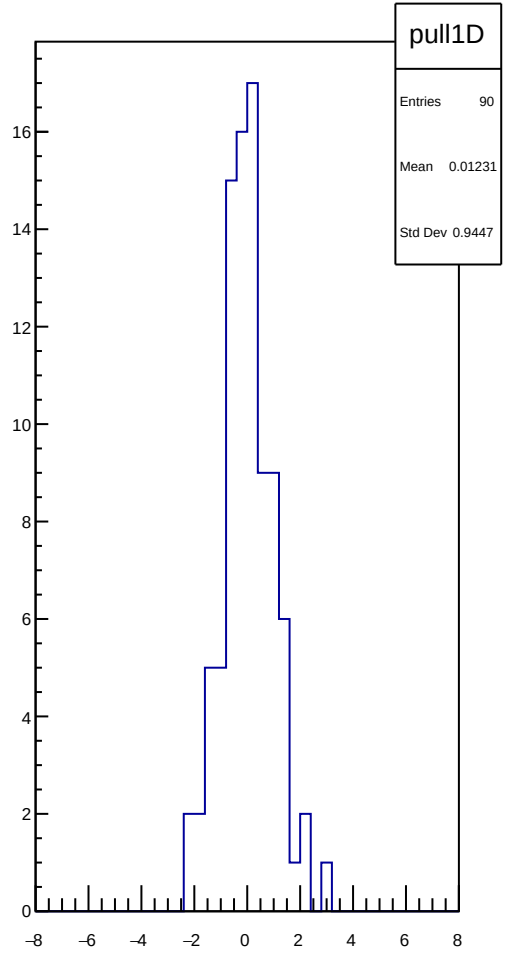

asym_sam5_rms vs run
χ² / ndf 9355 / 89
p0 795.2 ± 0.5973
1000
950
900
850
800
750
700
650

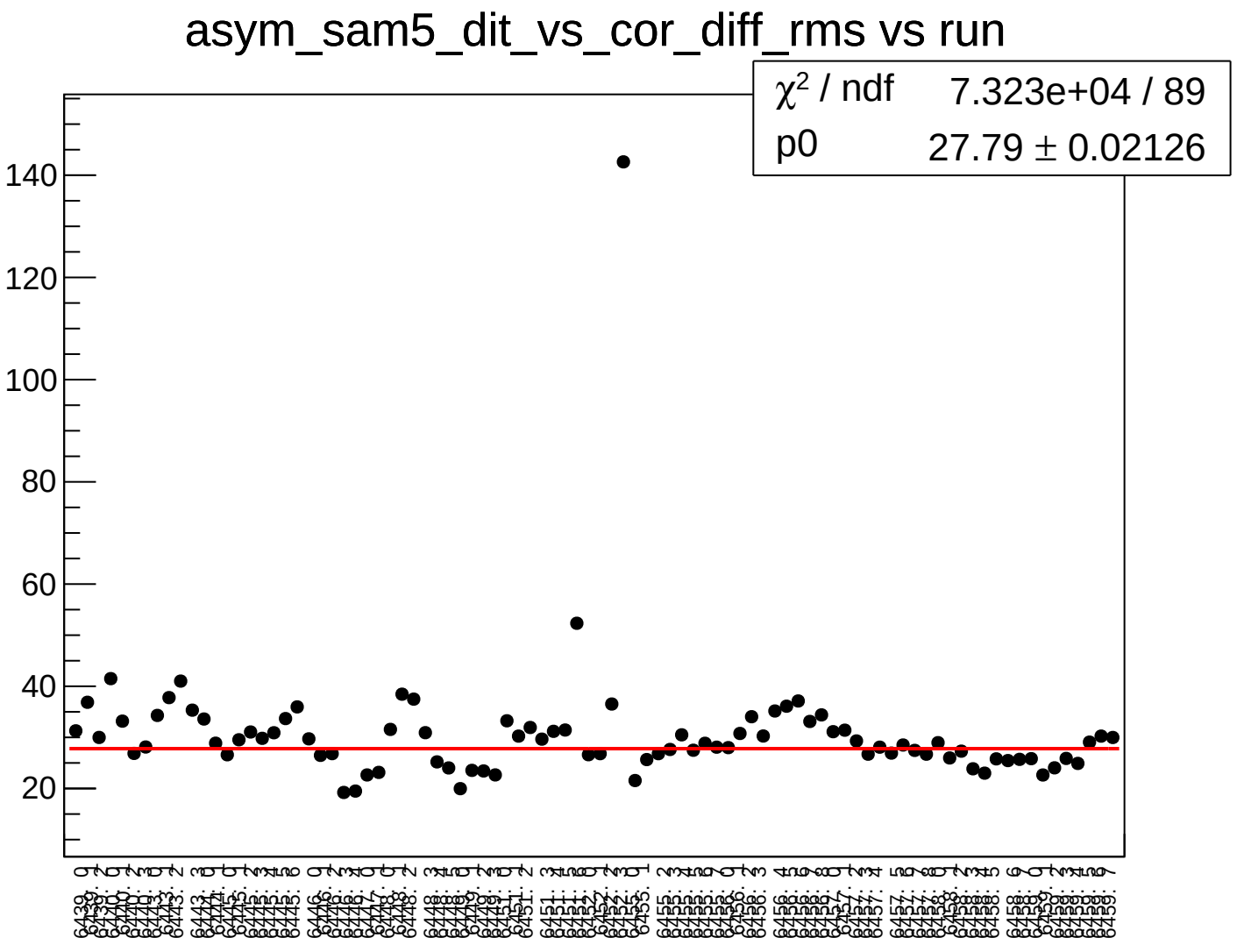

asym_sam5_reg_vs_cor_diff_mean vs run
χ² / ndf 85.05 / 89
p0 3.946e−14 ± 1.731e−14
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
pull
Entries 90
Mean 18.2
Std Dev 37.15
3
2
1
0
−1
−2

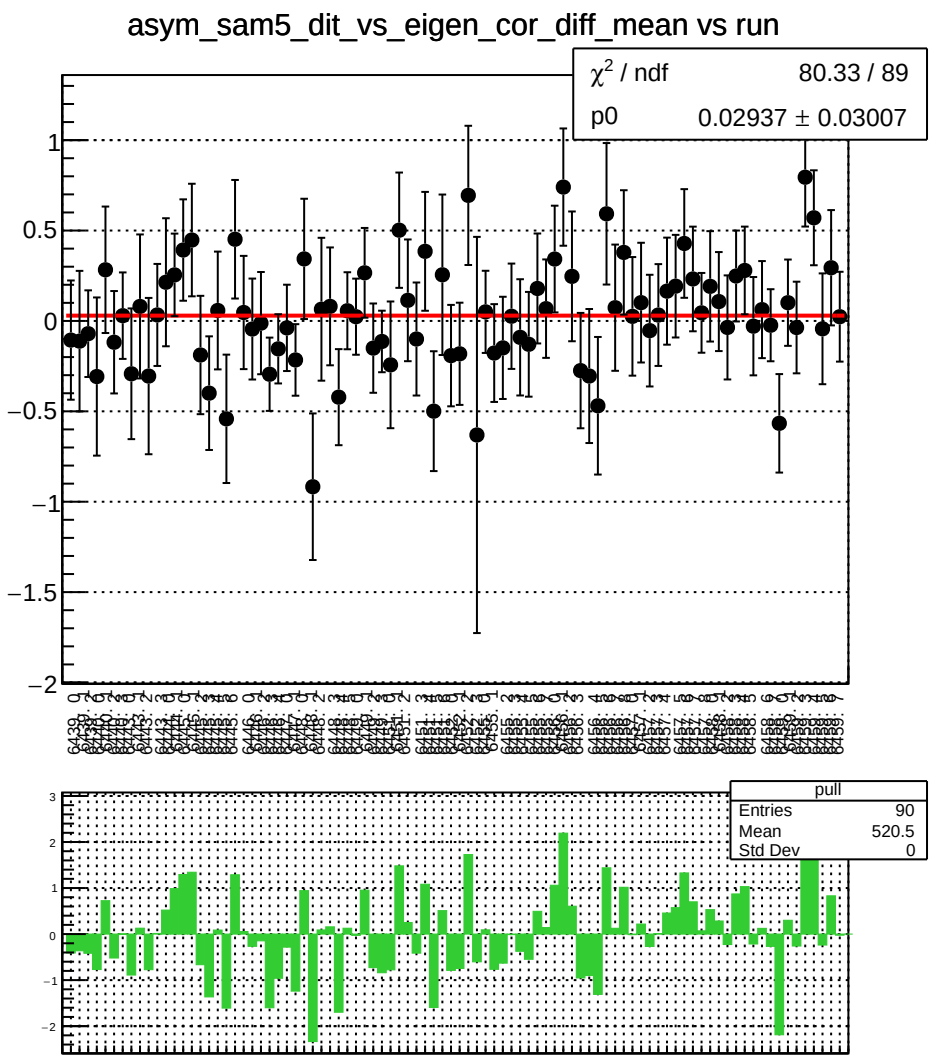

pull1D
Entries 90
Mean −0.02005
Std Dev 0.9719
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

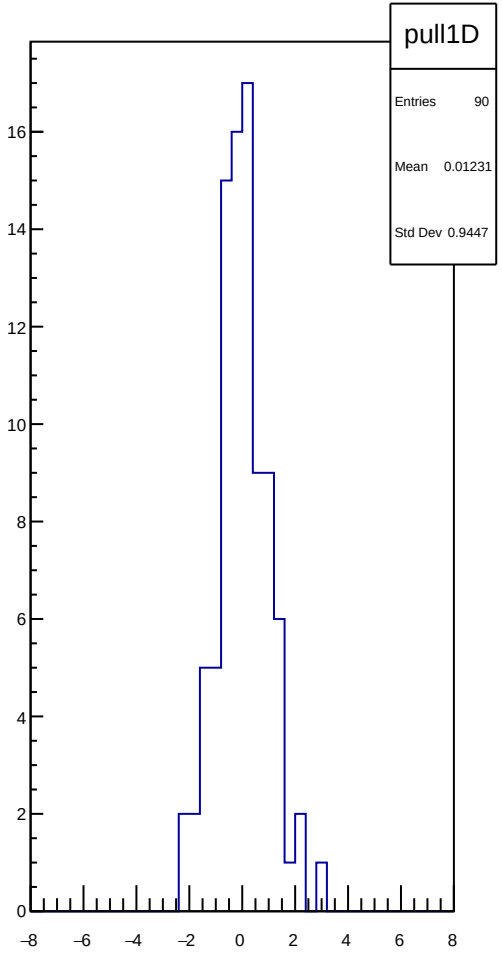

asym_sam5_reg_vs_cor_diff_rms vs run
χ² / ndf 1.001e+06 / 89
p0 1.082e−11 ± 1.224e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

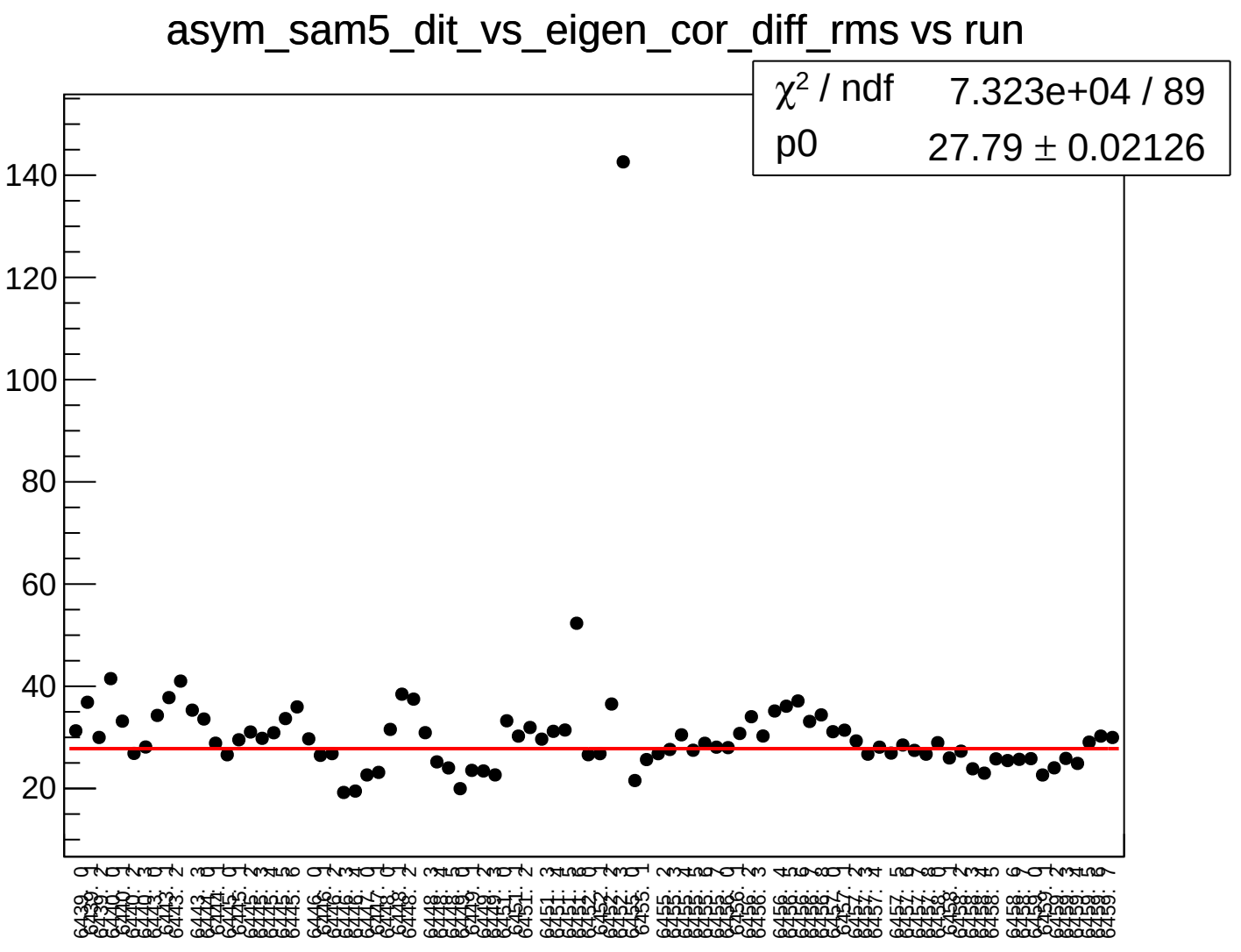

asym_sam5_dit_vs_cor_diff_mean vs run
χ² / ndf 80.33 / 89
p0 0.02937 ± 0.03007
pull
Entries 90
Mean 520.5
Std Dev 0

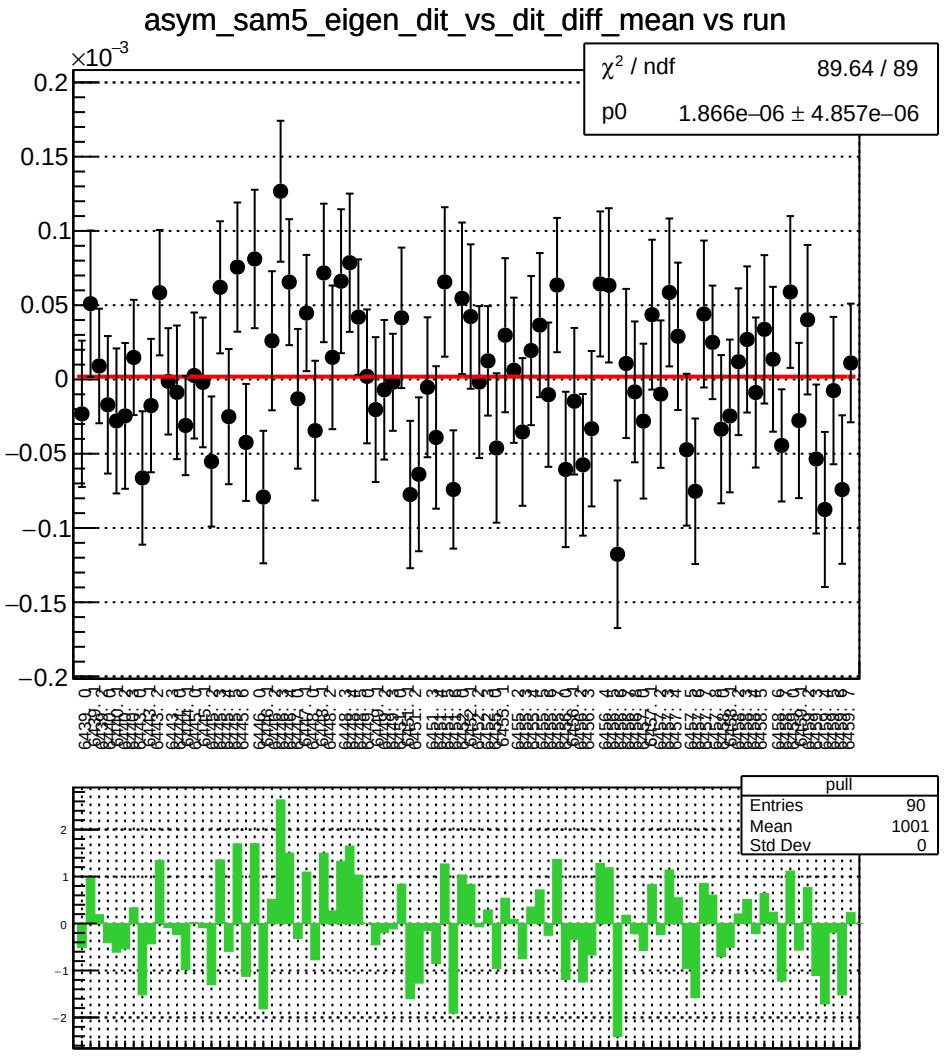

pull1D
Entries 90
Mean 0.01231
Std Dev 0.9447

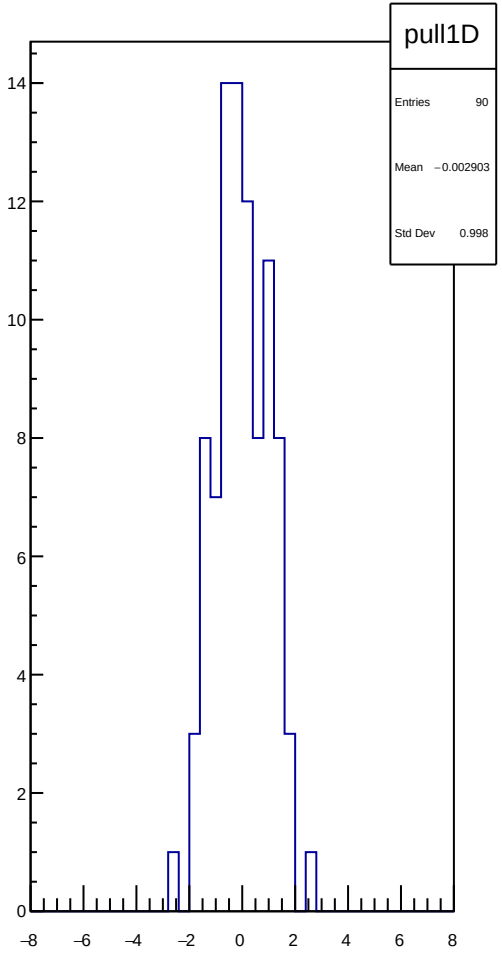

asym_sam5_dit_vs_cor_diff_rms vs run
χ² / ndf 7.323e+04 / 89
p0 27.79 ± 0.02126
140
120
100
80
60
40
20

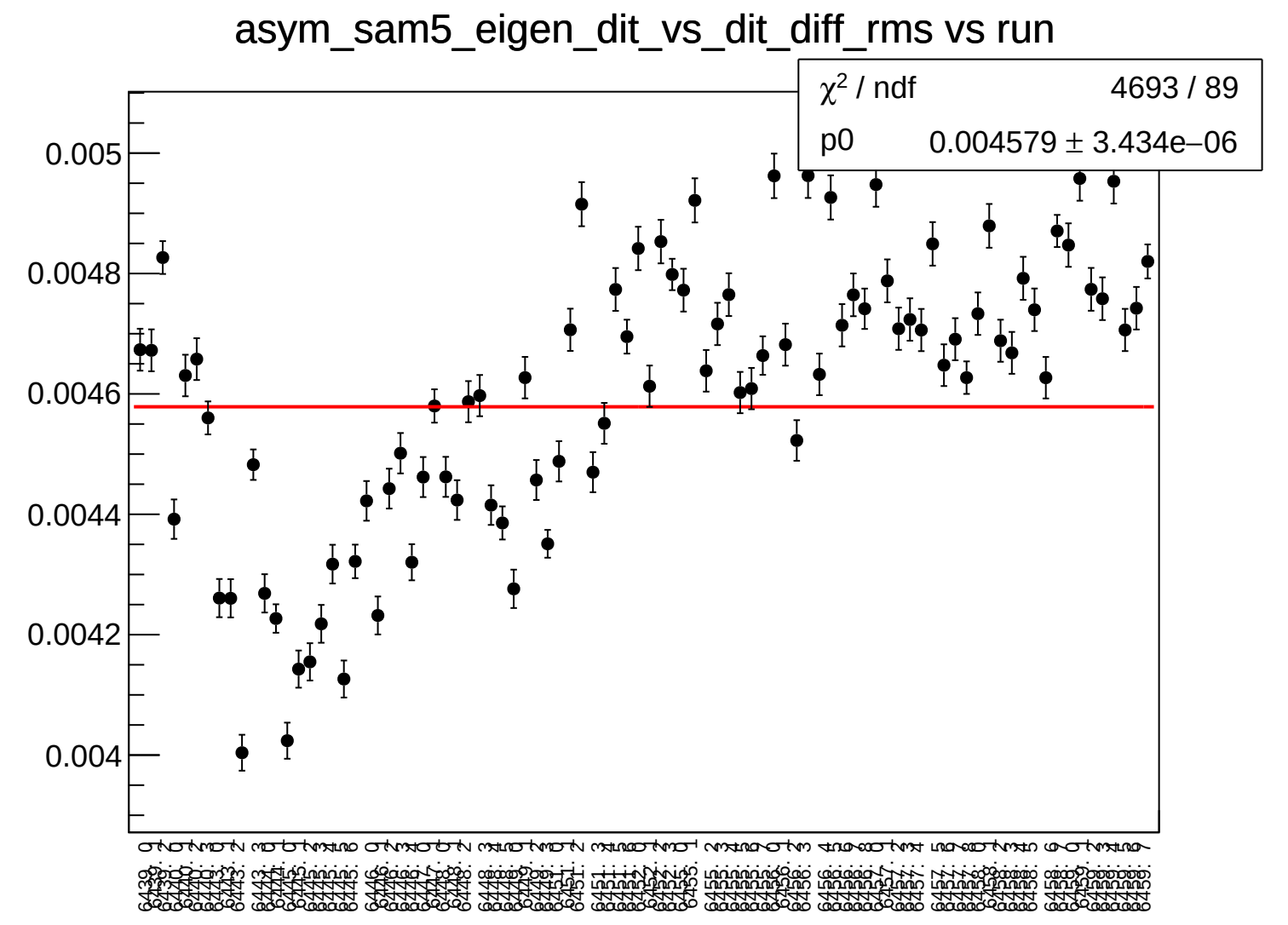

asym_sam5_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.33 / 89
p0 0.02937 ± 0.03007
pull
Entries 90
Mean 520.5
Std Dev 0

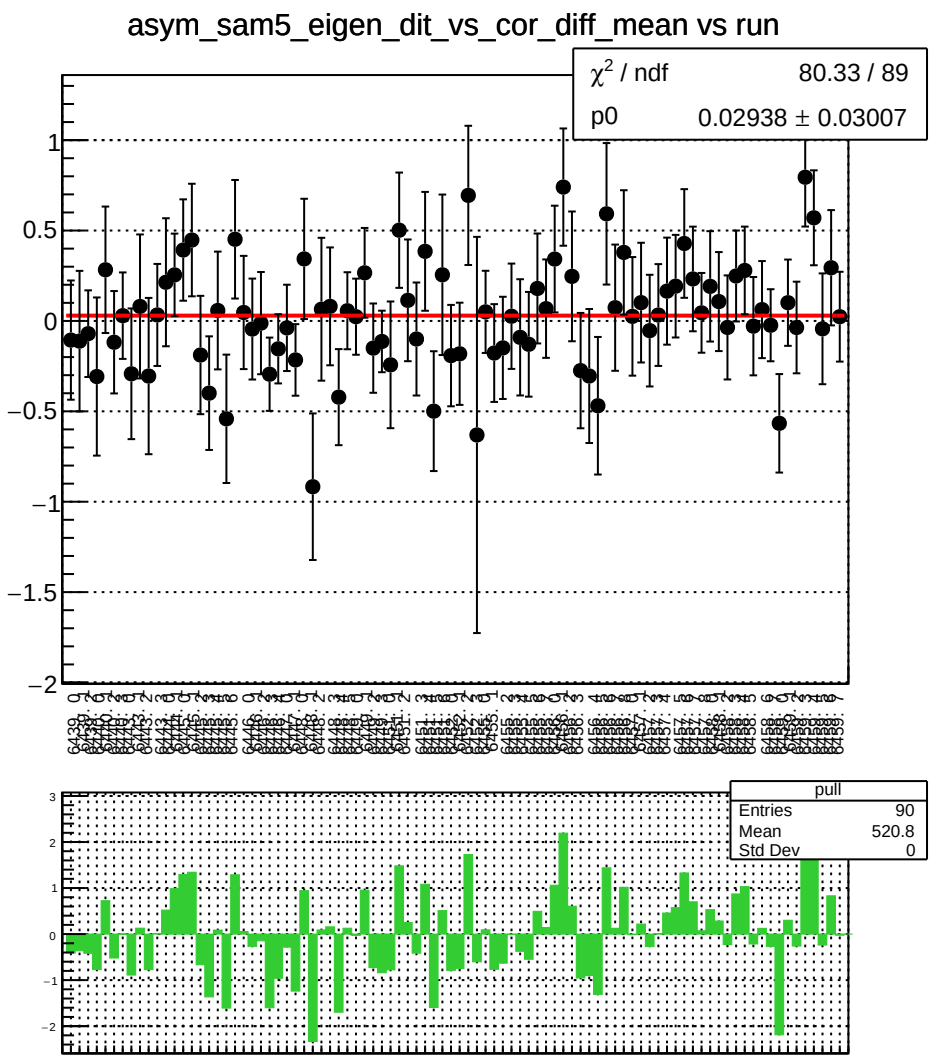

pull1D
Entries 90
Mean 0.01231
Std Dev 0.9447

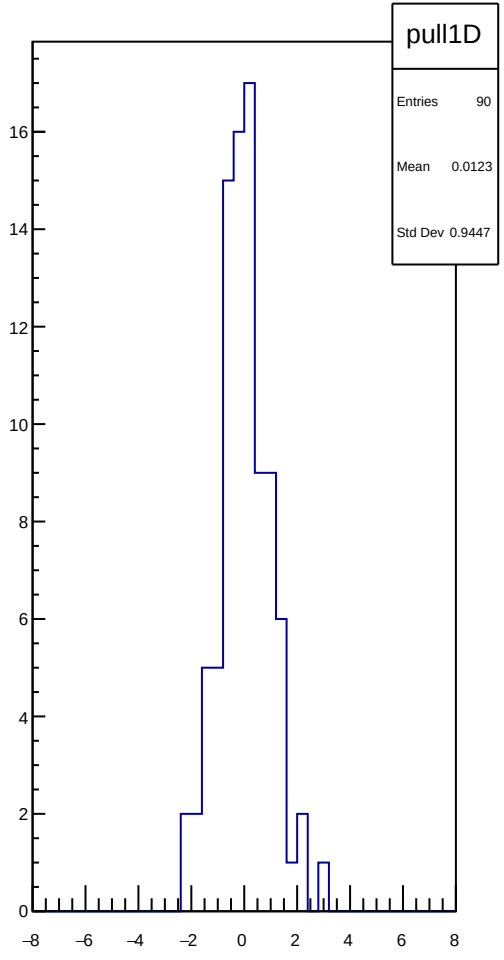

asym_sam5_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.323e+04 / 89
p0 27.79 ± 0.02126
140
120
100
80
60
40
20

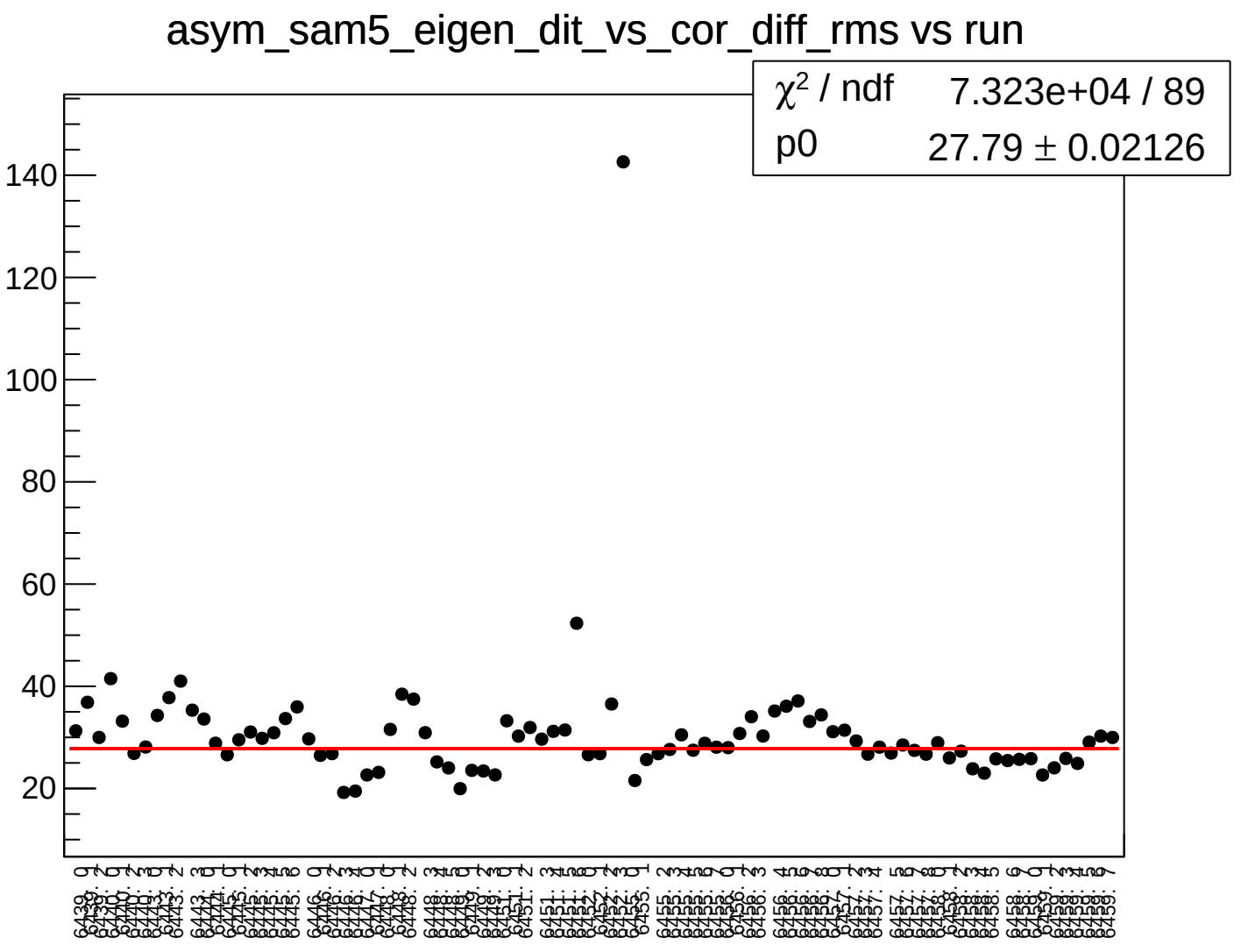

asym_sam5_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.64 / 89
p0 1.866e−06 ± 4.857e−06
pull
Entries 90
Mean 1001
Std Dev 0

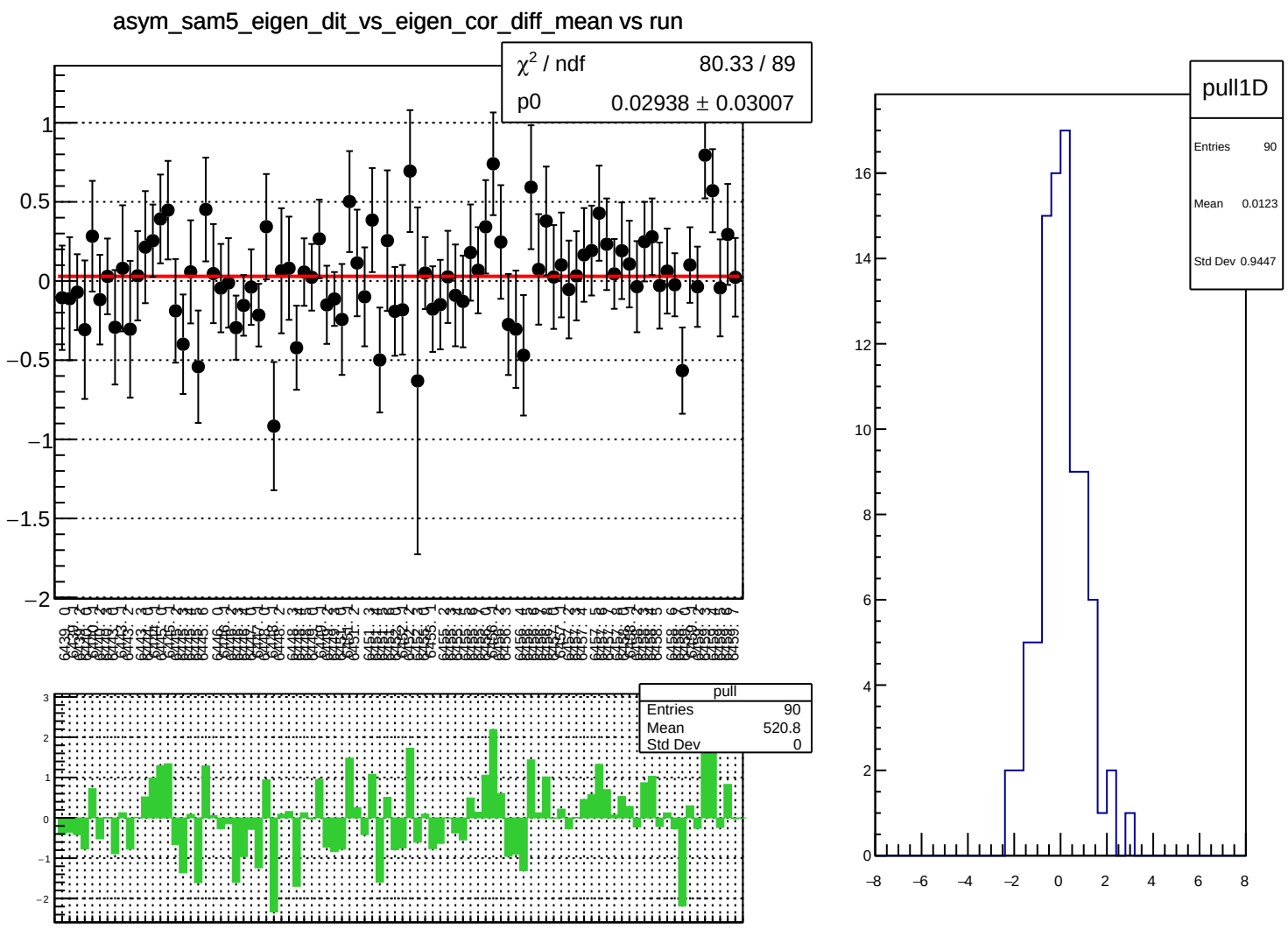

pull1D
Entries 90
Mean −0.002903
Std Dev 0.998

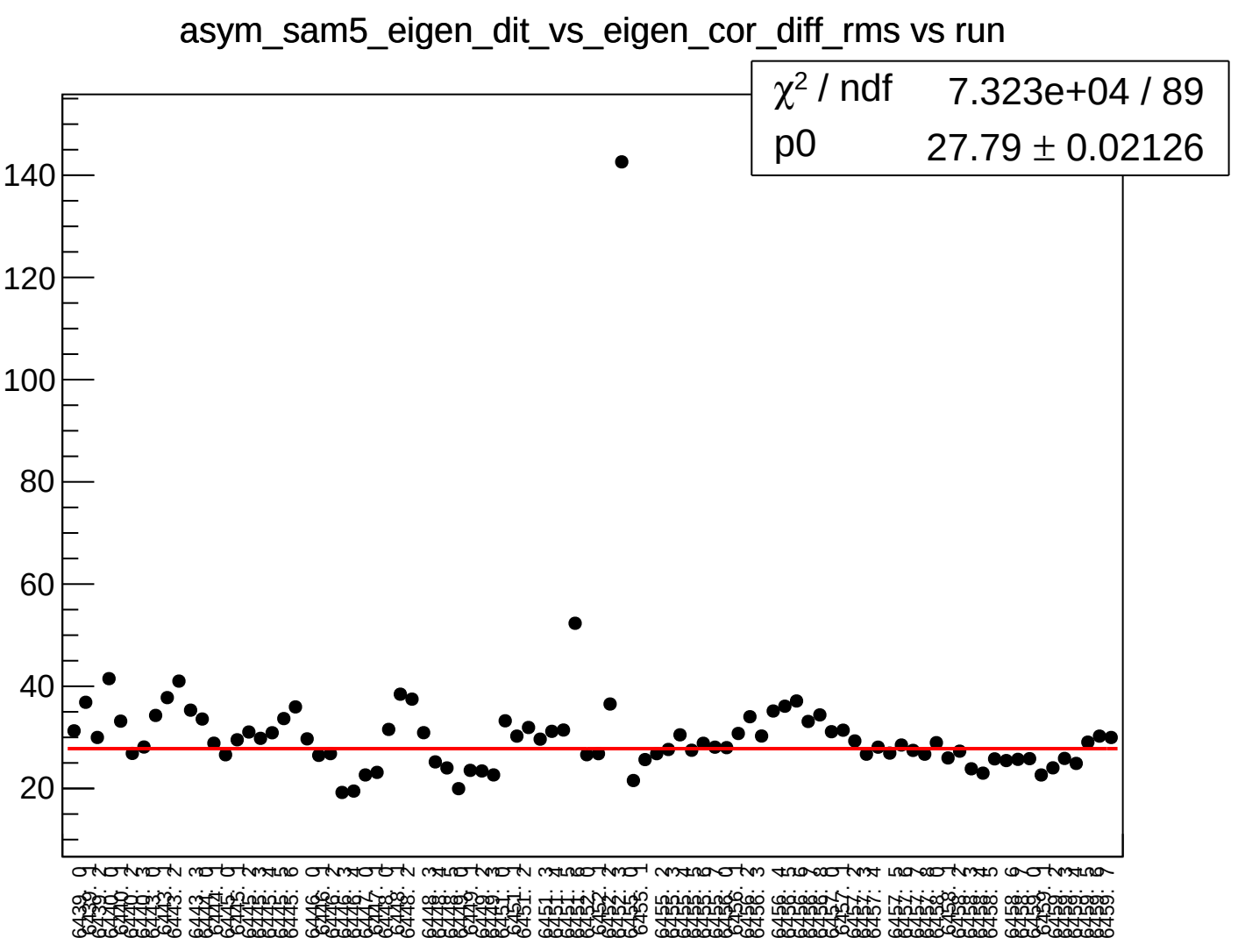

asym_sam5_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4693 / 89
p0 0.004579 ± 3.434e−06
0.005
0.0048
0.0046
0.0044
0.0042
0.004

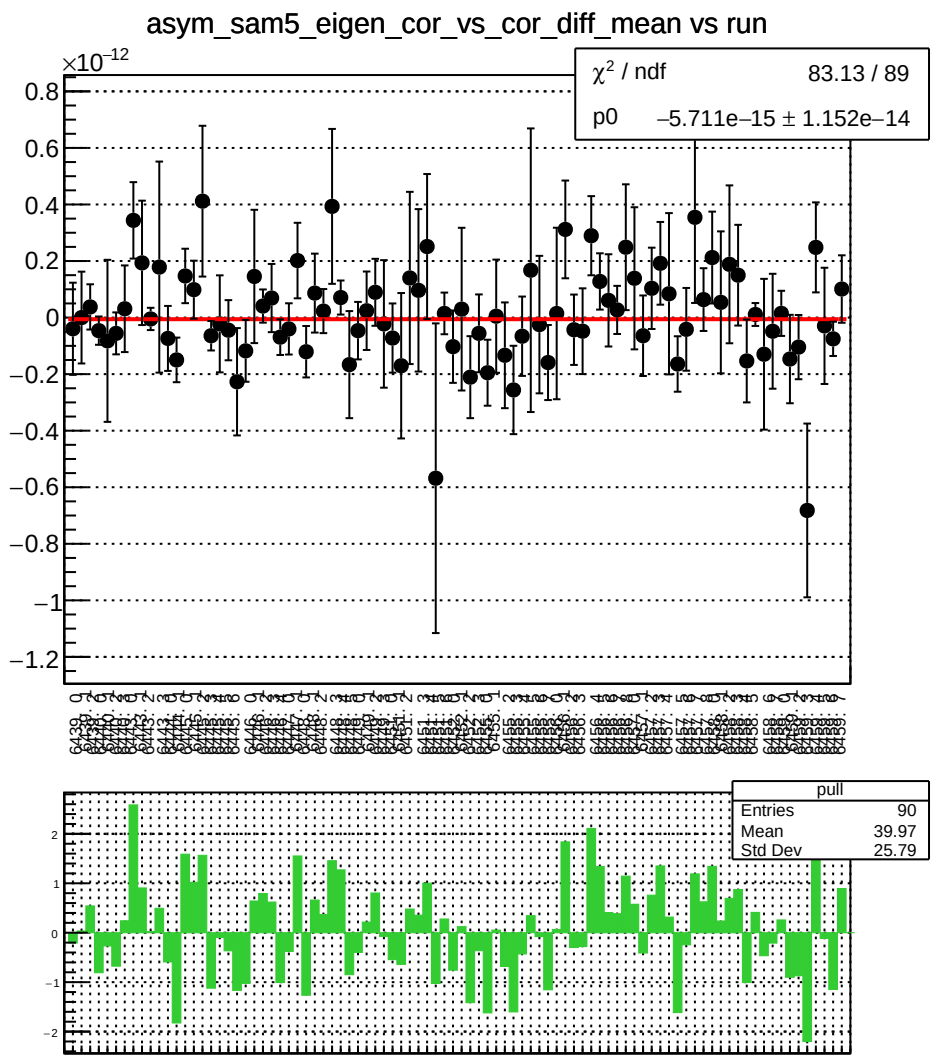

asym_sam5_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.33 / 89
p0 0.02938 ± 0.03007
pull
Entries 90
Mean 520.8
Std Dev 0

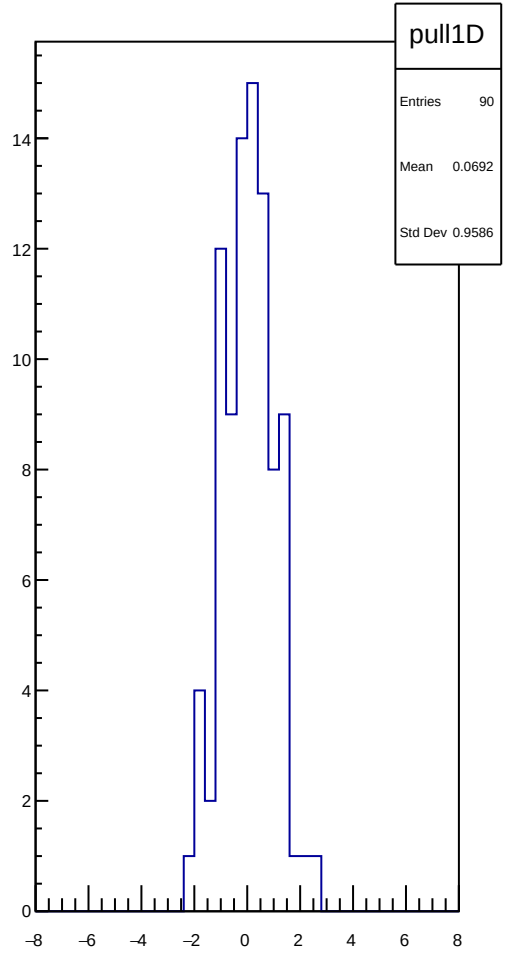

pull1D
Entries 90
Mean 0.0123
Std Dev 0.9447

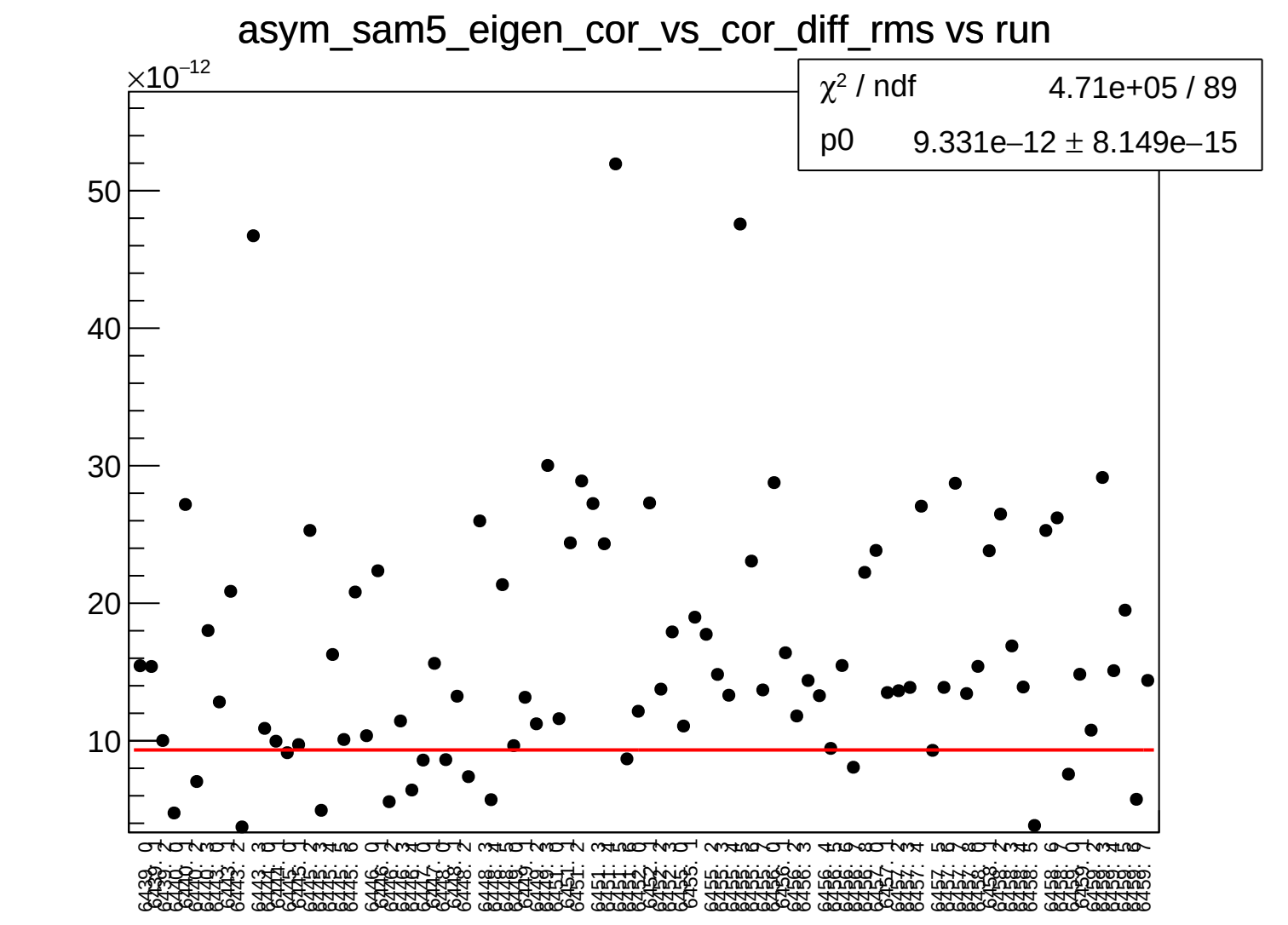

asym_sam5_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.323e+04 / 89
p0 27.79 ± 0.02126
140
120
100
80
60
40
20

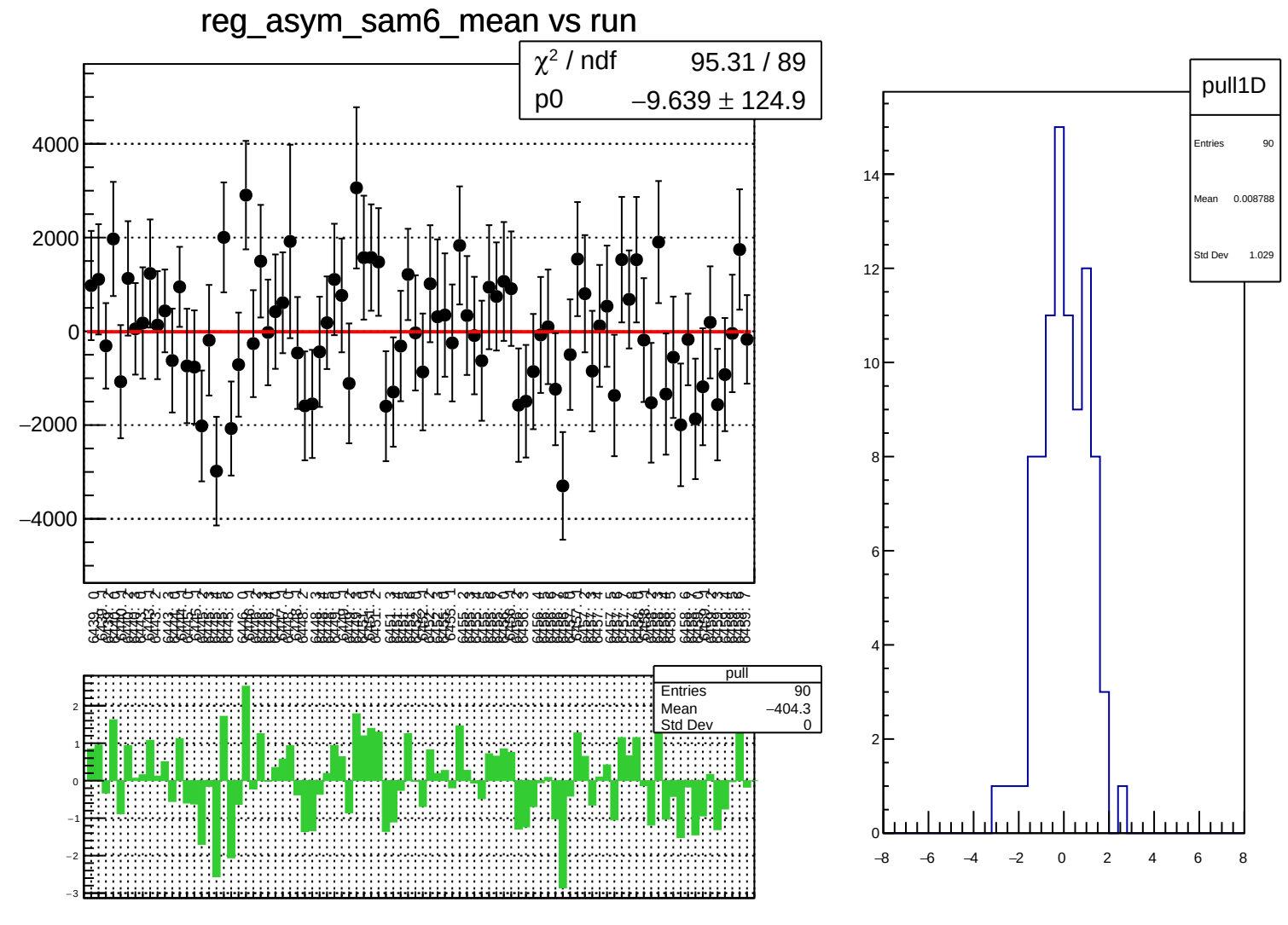

asym_sam5_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.33 / 89
p0 0.02938 ± 0.03007
pull
Entries 90
Mean 520.8
Std Dev 0
pull1D
Entries 90
Mean 0.0123
Std Dev 0.9447

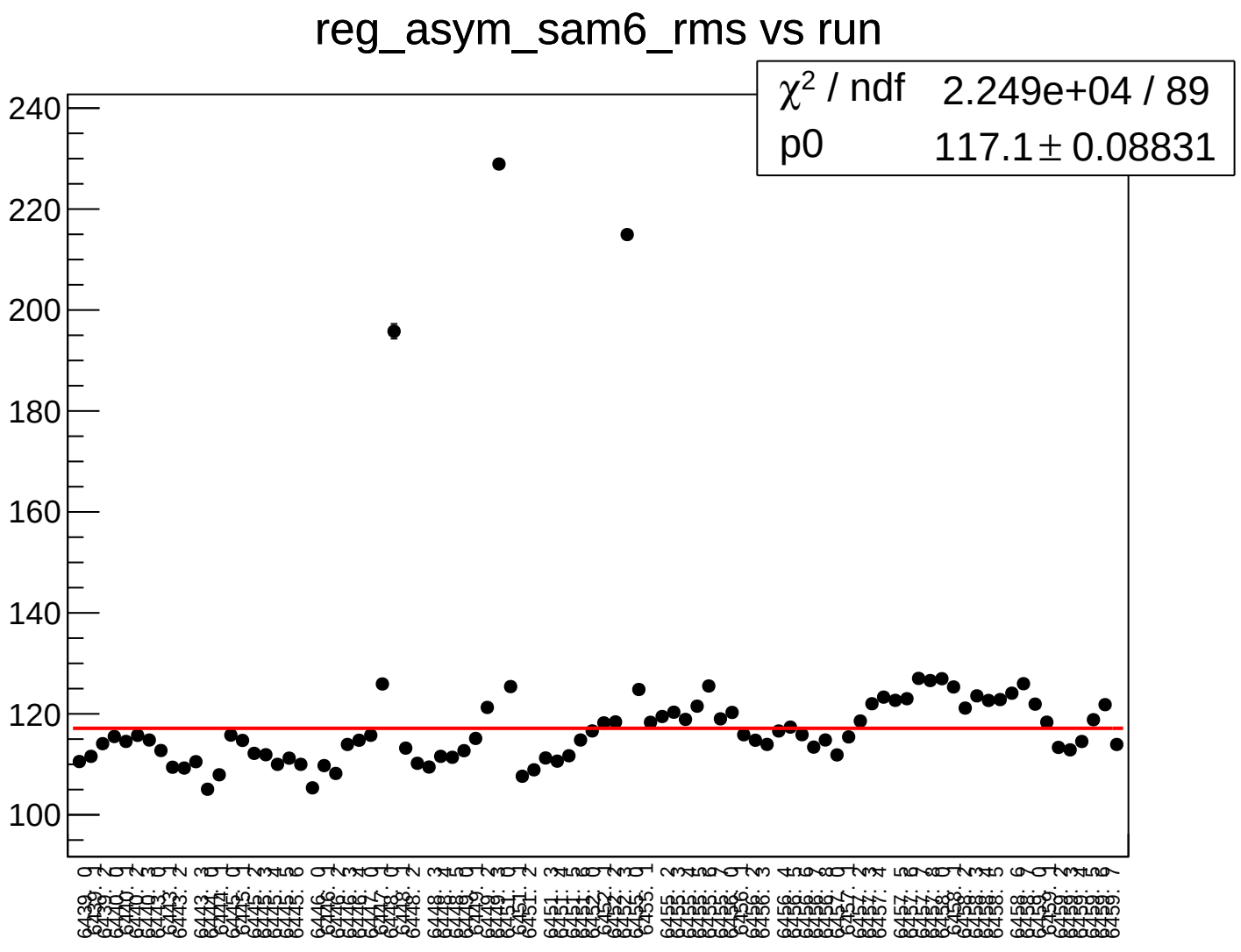

asym_sam5_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.323e+04 / 89
p0 27.79 ± 0.02126
140
120
100
80
60
40
20

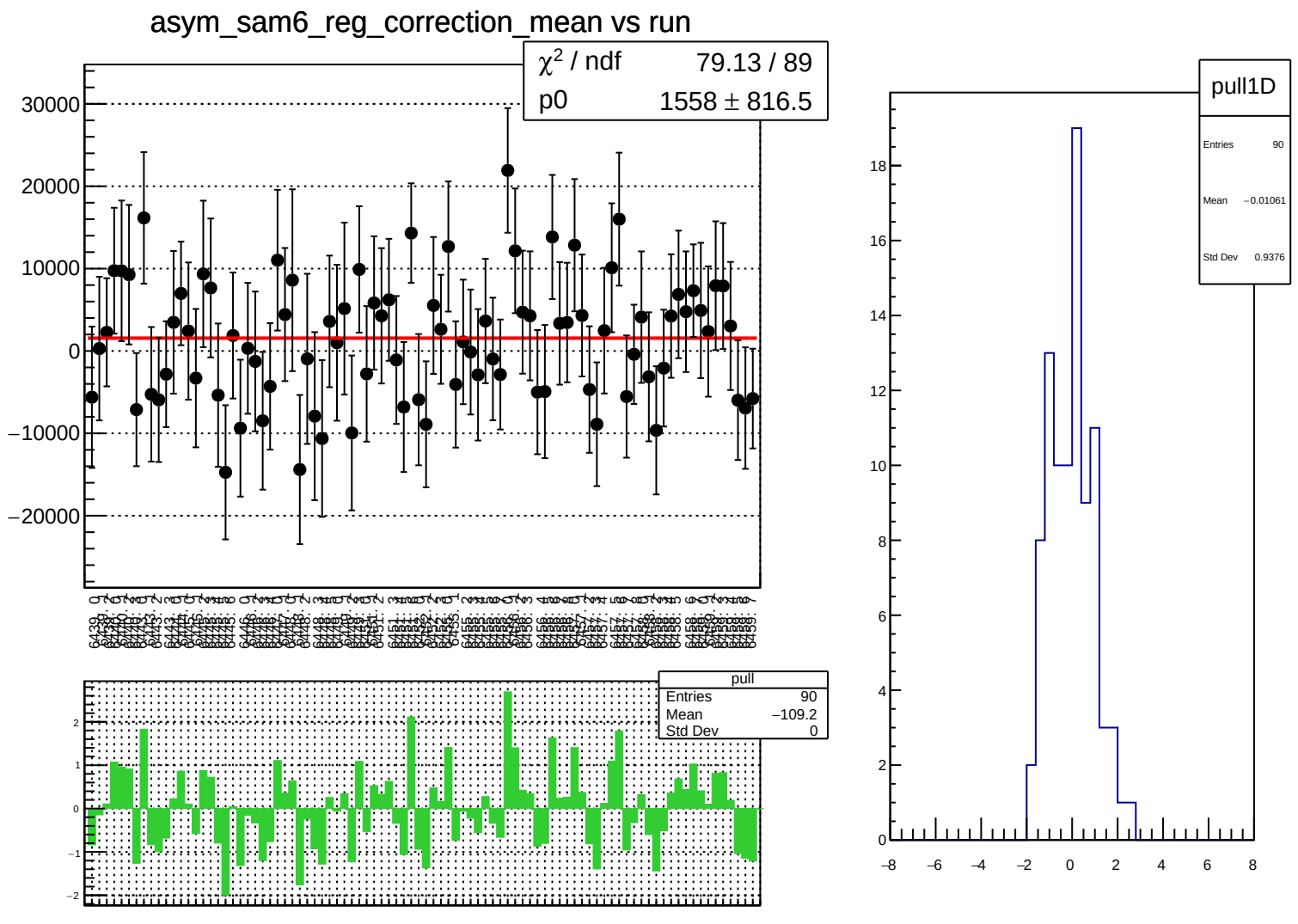

asym_sam5_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.13 / 89
p0 −5.711e−15 ± 1.152e−14
pull
Entries 90
Mean 39.97
Std Dev 25.79

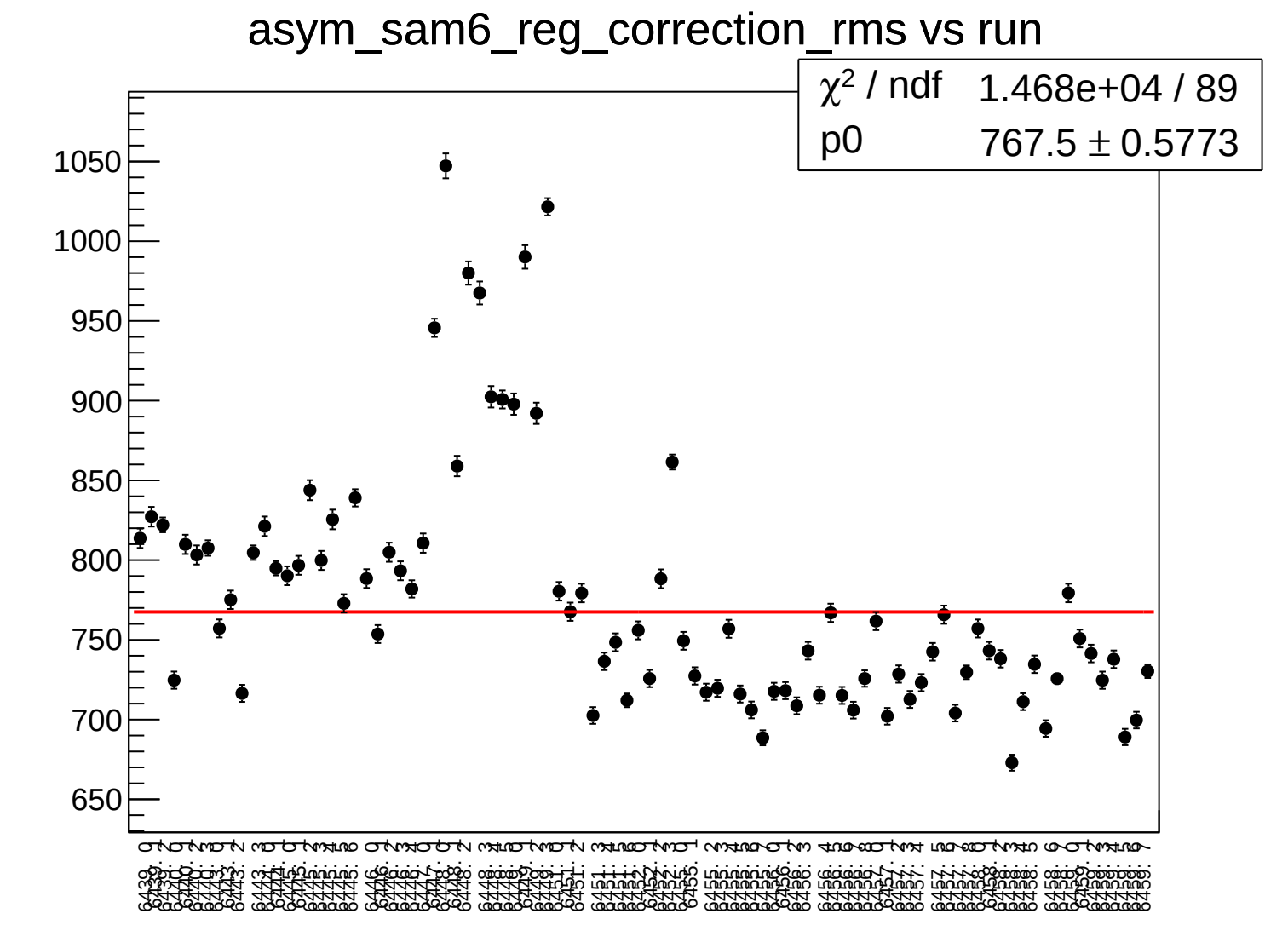

pull1D
Entries 90
Mean 0.0692
Std Dev 0.9586

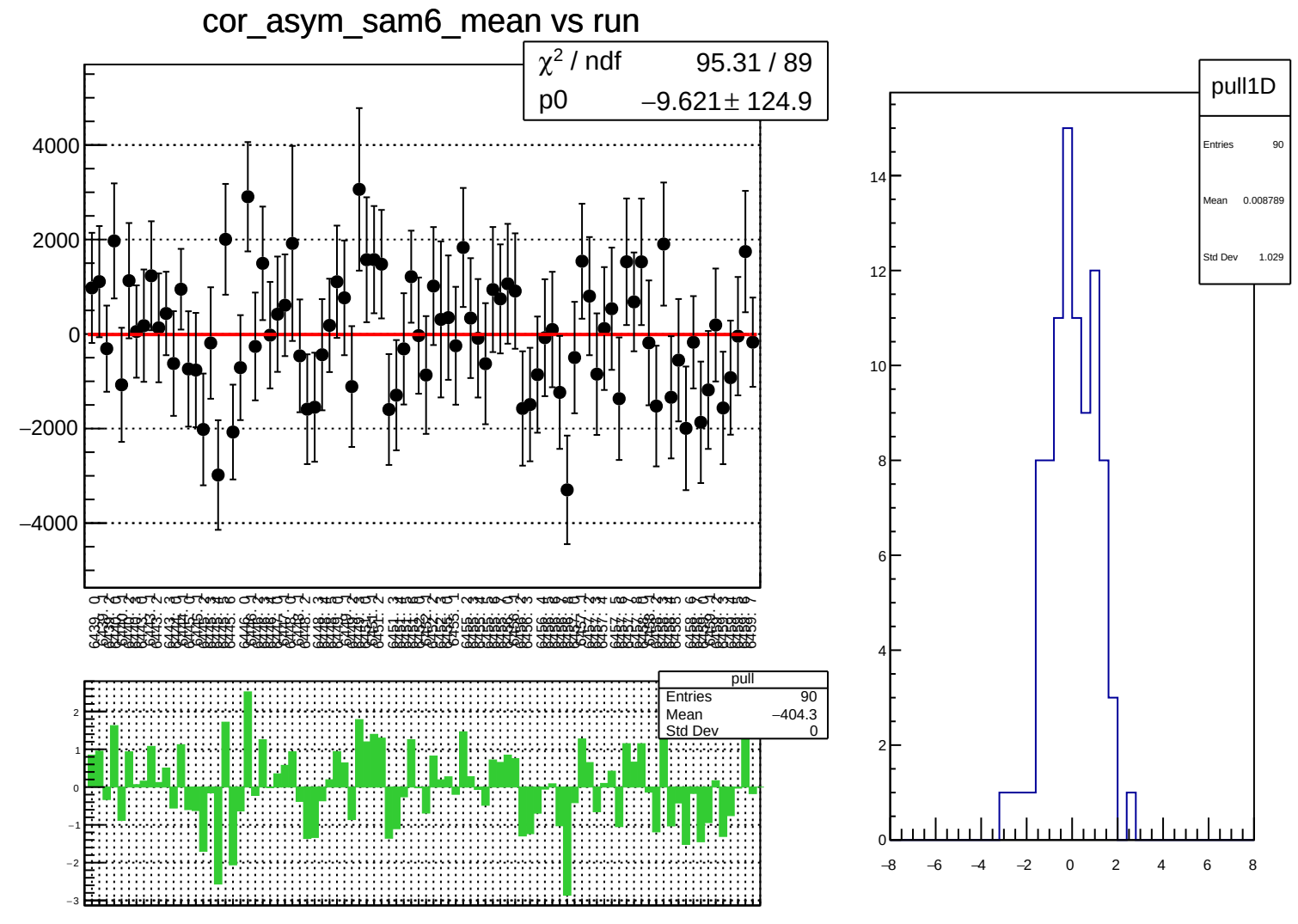

asym_sam5_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.71e+05 / 89
p0 9.331e−12 ± 8.149e−15
50
40
30
20
10

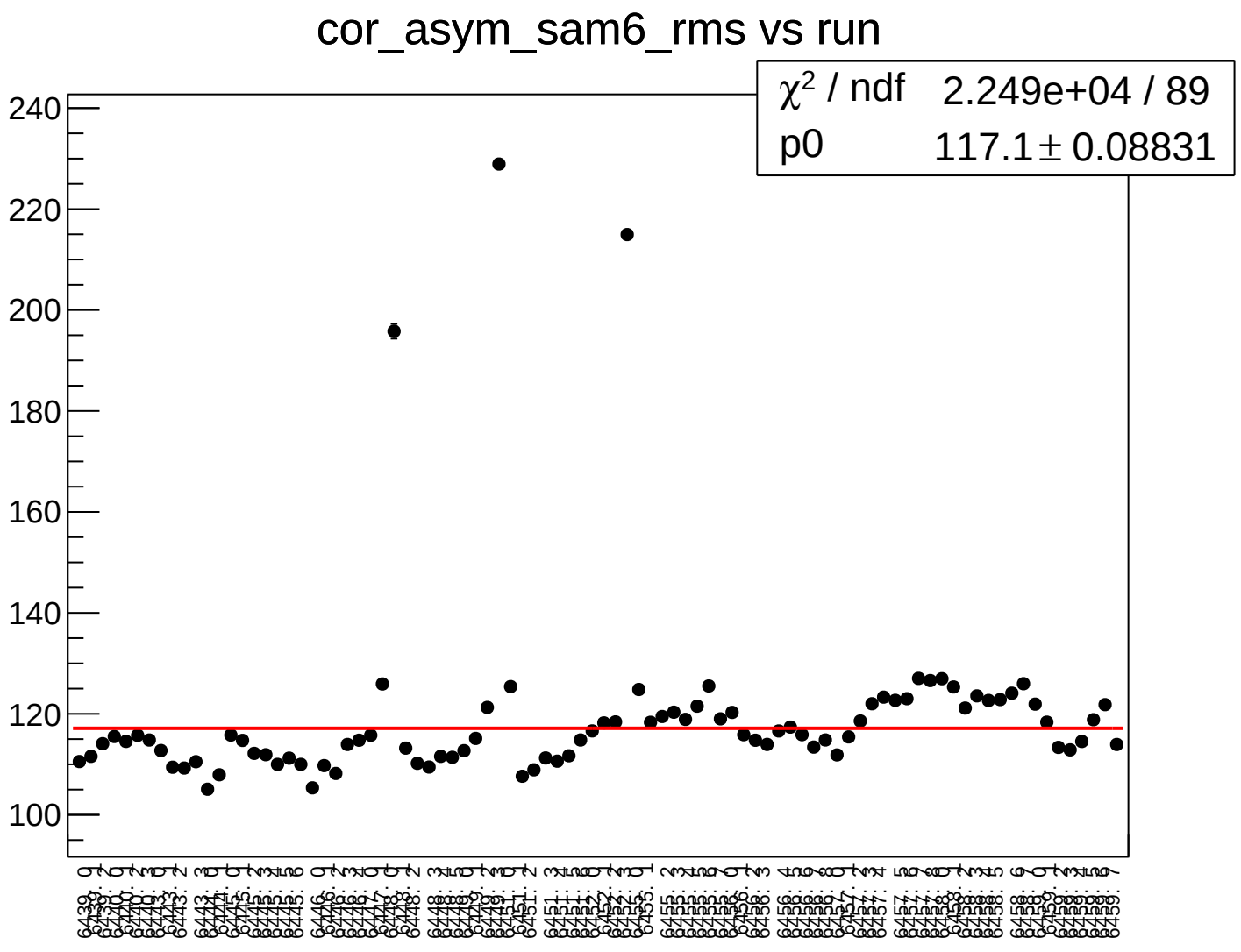

reg_asym_sam6_mean vs run
χ² / ndf 95.31 / 89
p0 −9.639 ± 124.9
4000
2000
0
−2000
−4000
pull
Entries 90
Mean −404.3
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 90
Mean 0.008788
Std Dev 1.029
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

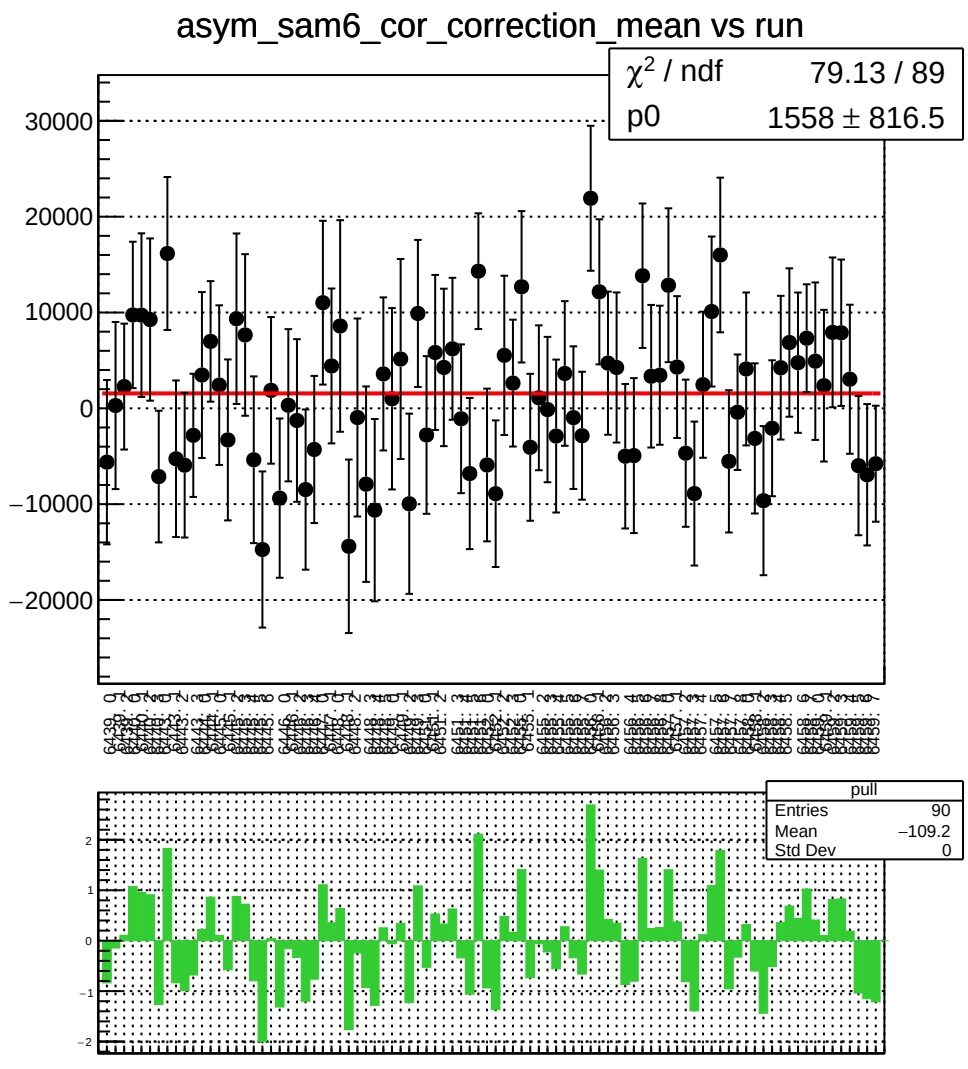

reg_asym_sam6_rms vs run
χ² / ndf 2.249e+04 / 89
p0 117.1 ± 0.08831
240
220
200
180
160
140
120
100

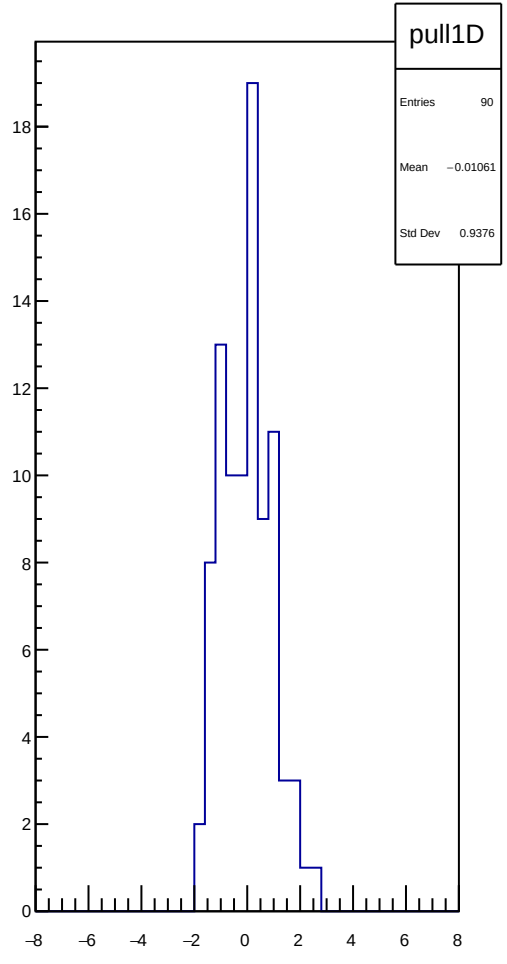

asym_sam6_reg_correction_mean vs run
χ² / ndf 79.13 / 89
p0 1558 ± 816.5
30000
20000
10000
0
−10000
−20000
pull
Entries 90
Mean −109.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.01061
Std Dev 0.9376
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

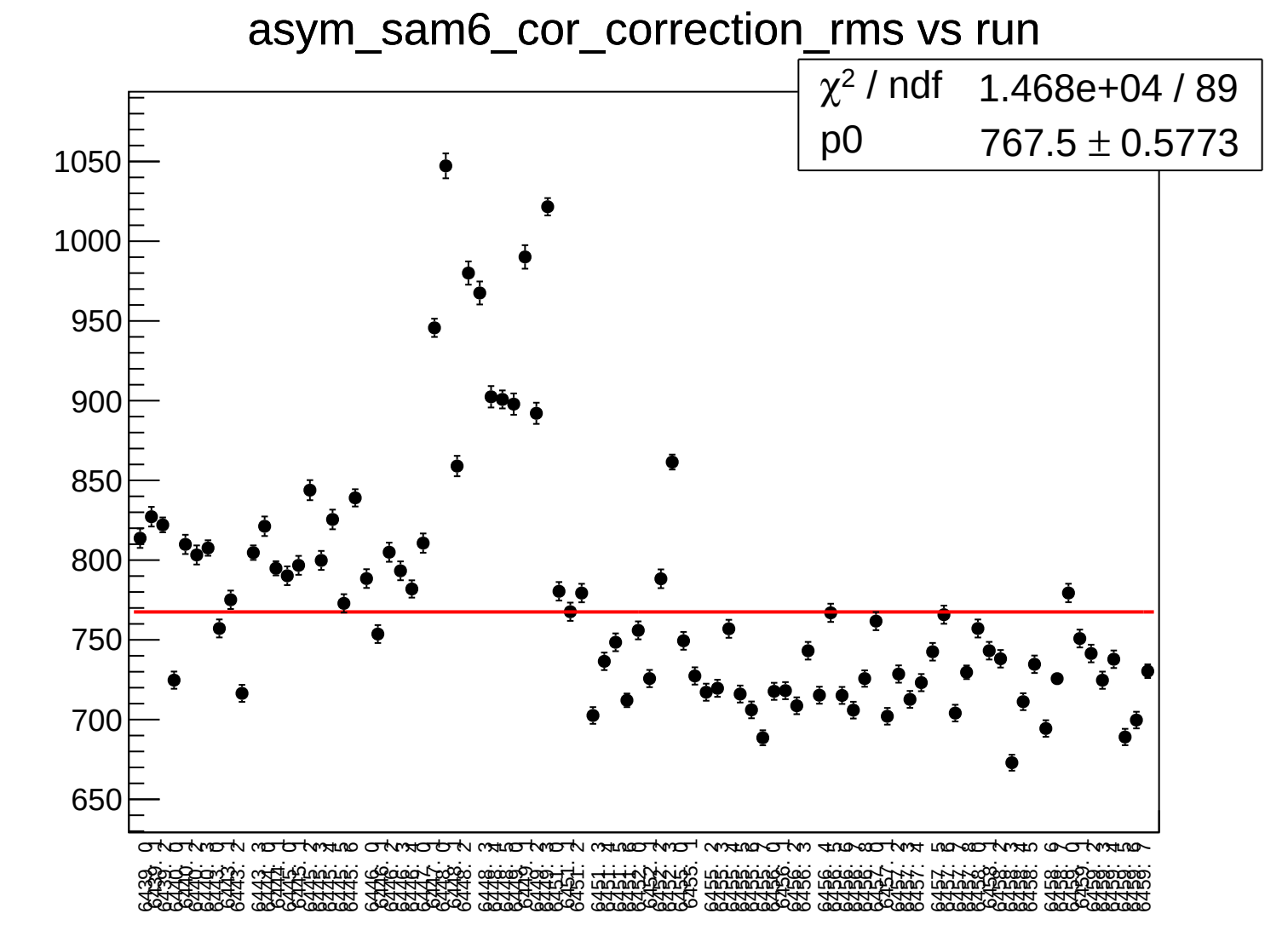

asym_sam6_reg_correction_rms vs run
χ² / ndf 1.468e+04 / 89
p0 767.5 ± 0.5773
1050
1000
950
900
850
800
750
700
650

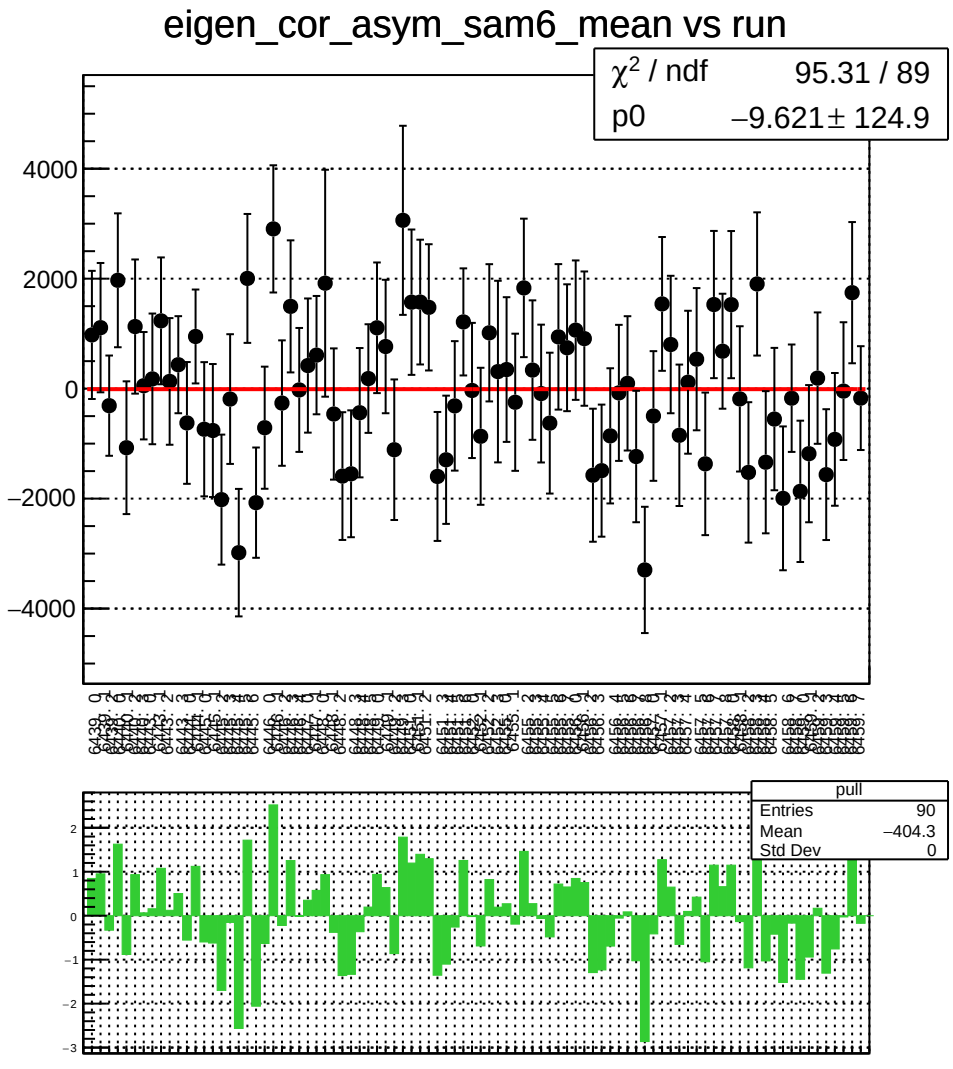

cor_asym_sam6_mean vs run
χ² / ndf 95.31 / 89
p0 −9.621± 124.9
4000
2000
0
−2000
−4000
pull
Entries 90
Mean −404.3
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 90
Mean 0.008789
Std Dev 1.029
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

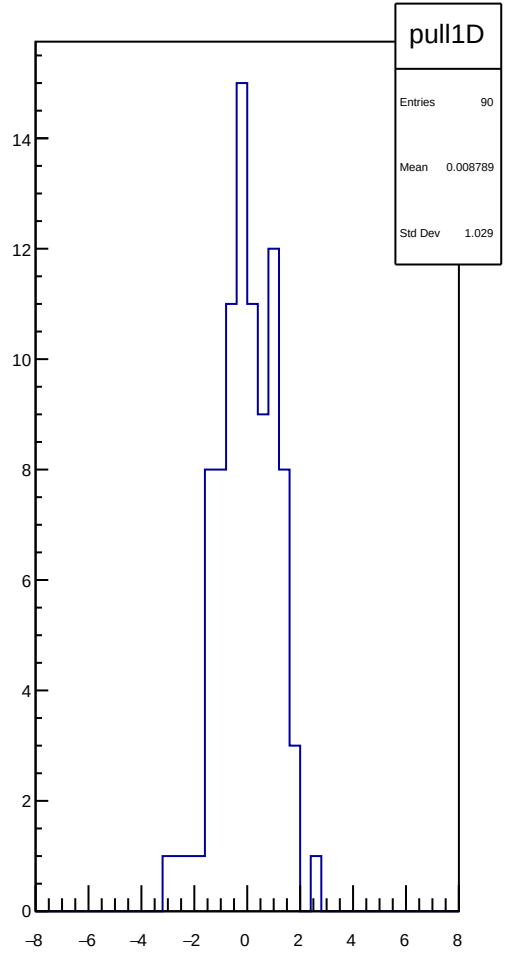

cor_asym_sam6_rms vs run
χ² / ndf 2.249e+04 / 89
p0 117.1 ± 0.08831
240
220
200
180
160
140
120
100

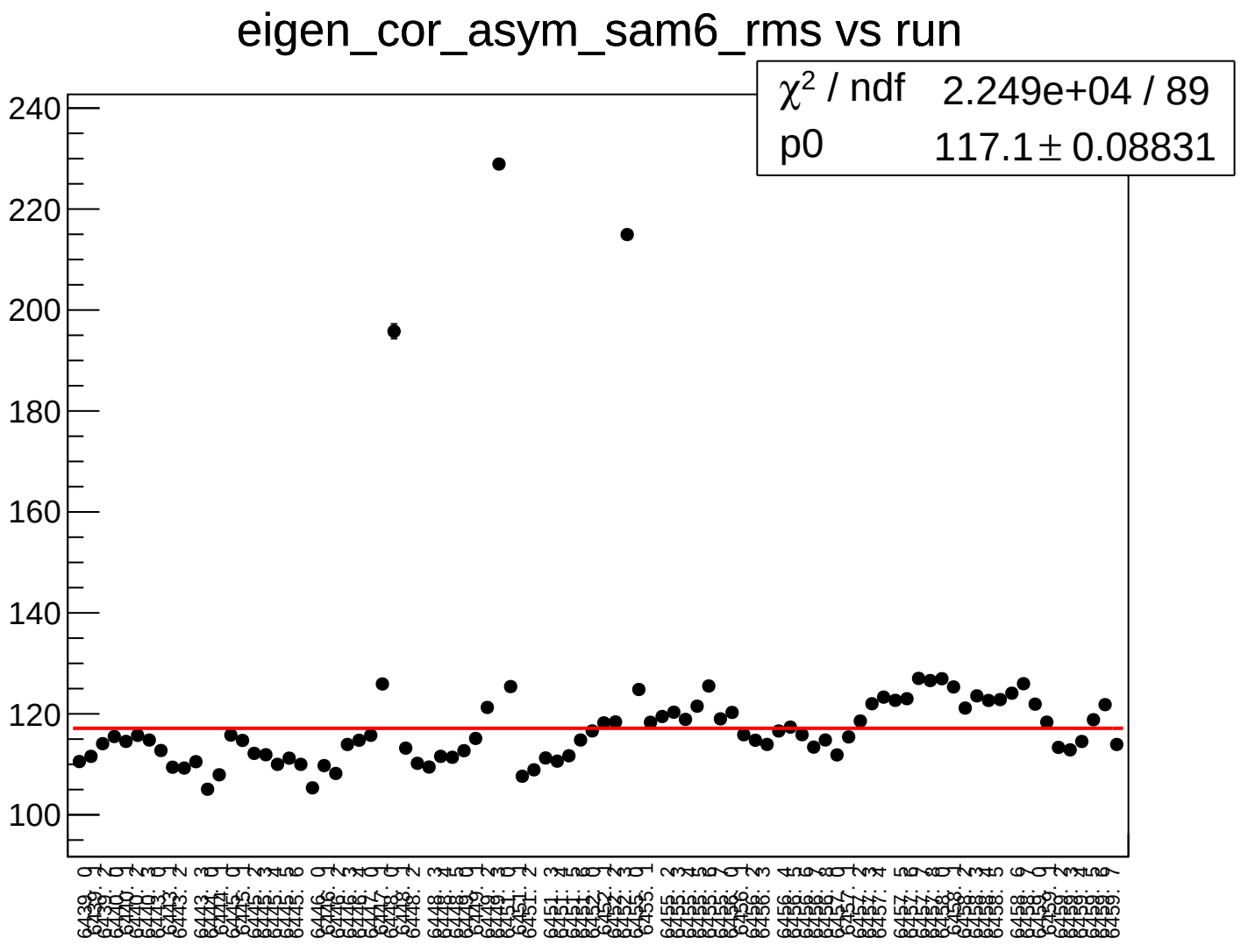

asym_sam6_cor_correction_mean vs run
χ² / ndf 79.13 / 89
p0 1558 ± 816.5
30000
20000
10000
0
−10000
−20000
pull
Entries 90
Mean −109.2
Std Dev 0
2
1
0
−1
−2

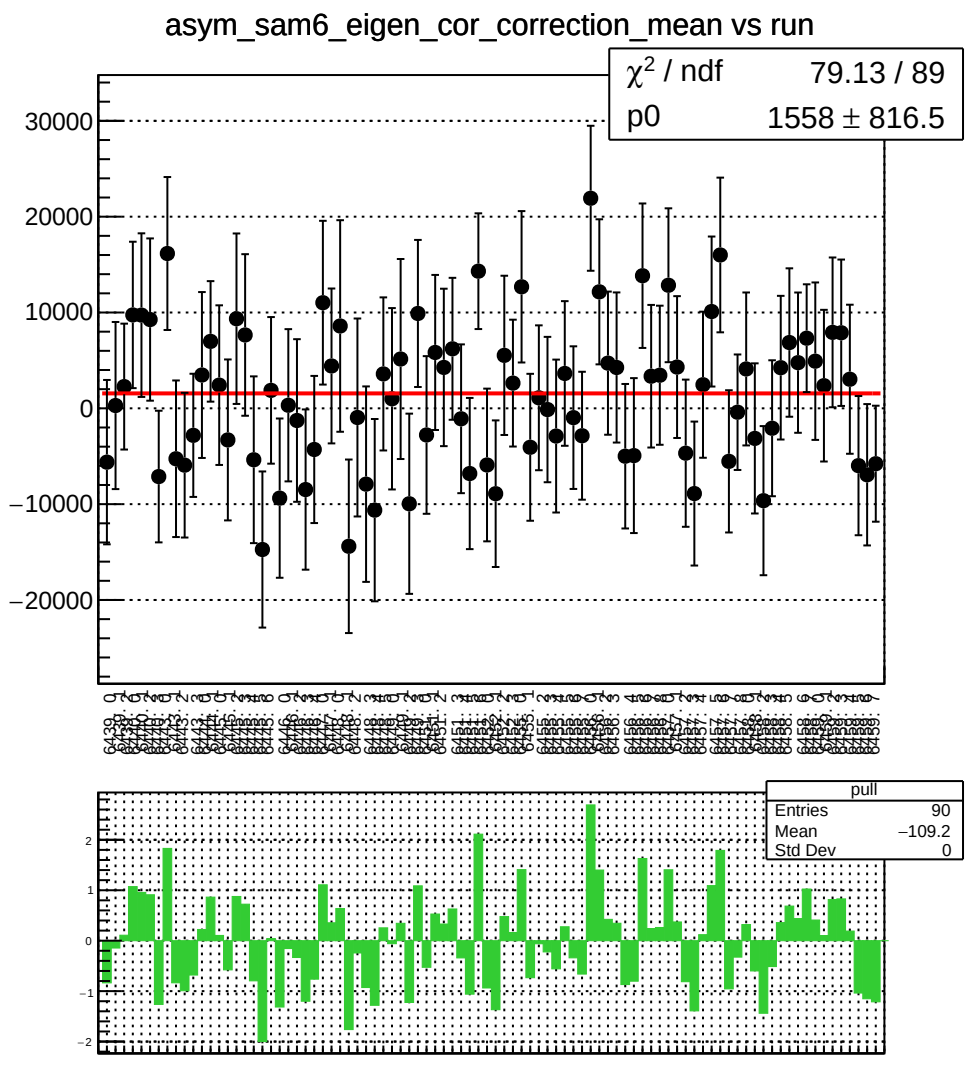

pull1D
Entries 90
Mean −0.01061
Std Dev 0.9376
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

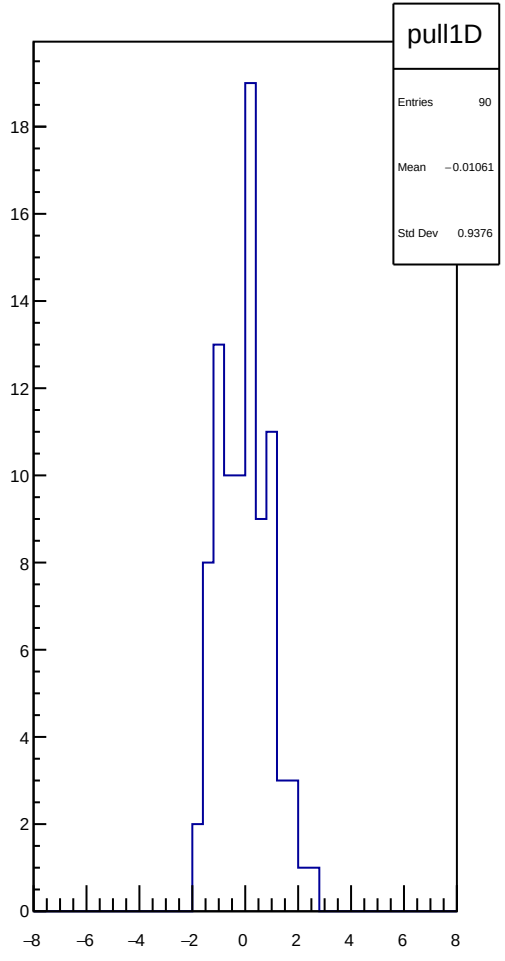

asym_sam6_cor_correction_rms vs run
χ² / ndf 1.468e+04 / 89
p0 767.5 ± 0.5773
1050
1000
950
900
850
800
750
700
650

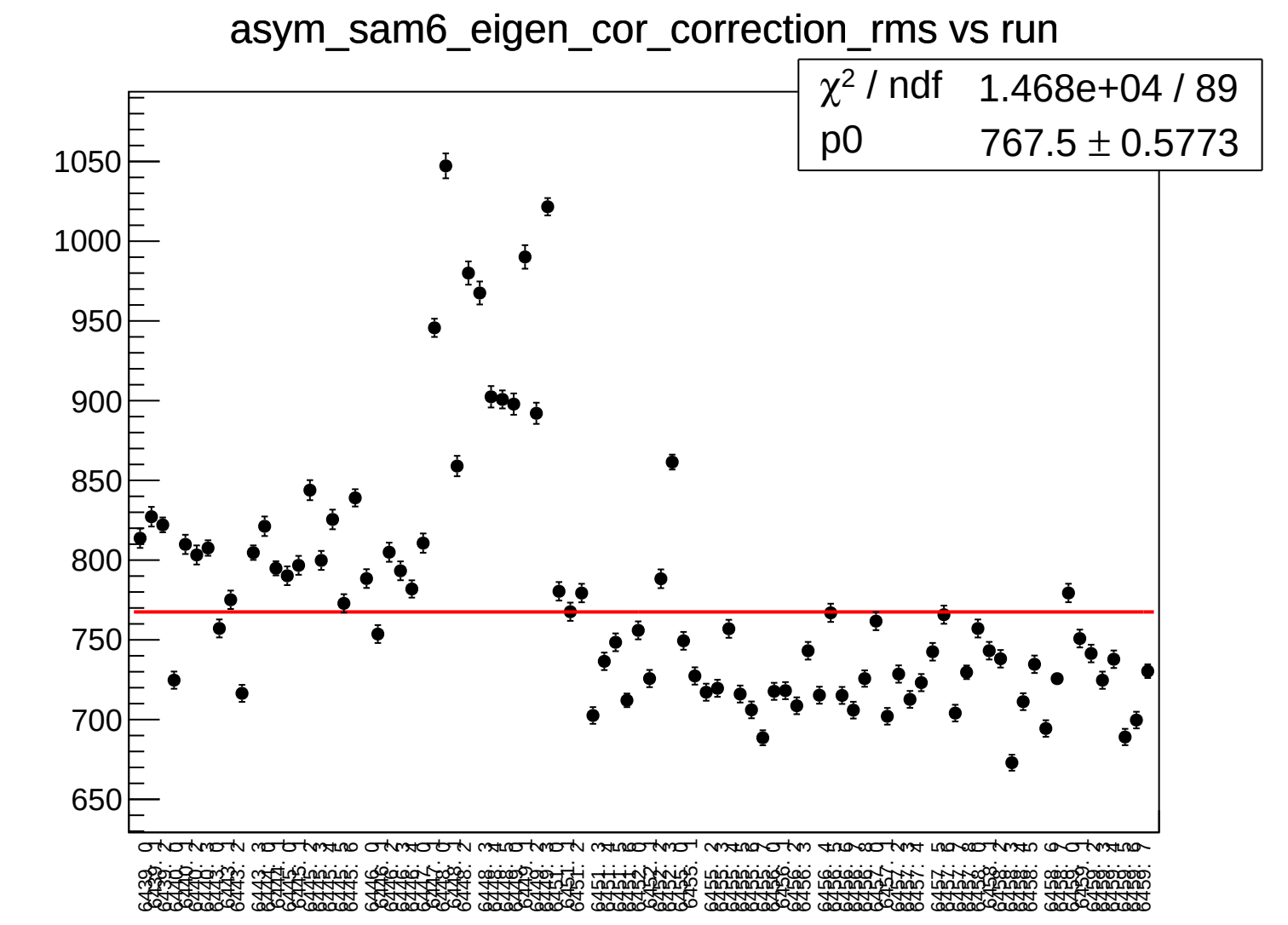

eigen_cor_asym_sam6_mean vs run
χ² / ndf 95.31 / 89
p0 −9.621 ± 124.9
4000
2000
0
−2000
−4000
pull
Entries 90
Mean −404.3
Std Dev 0
2
1
0
−1
−2
−3

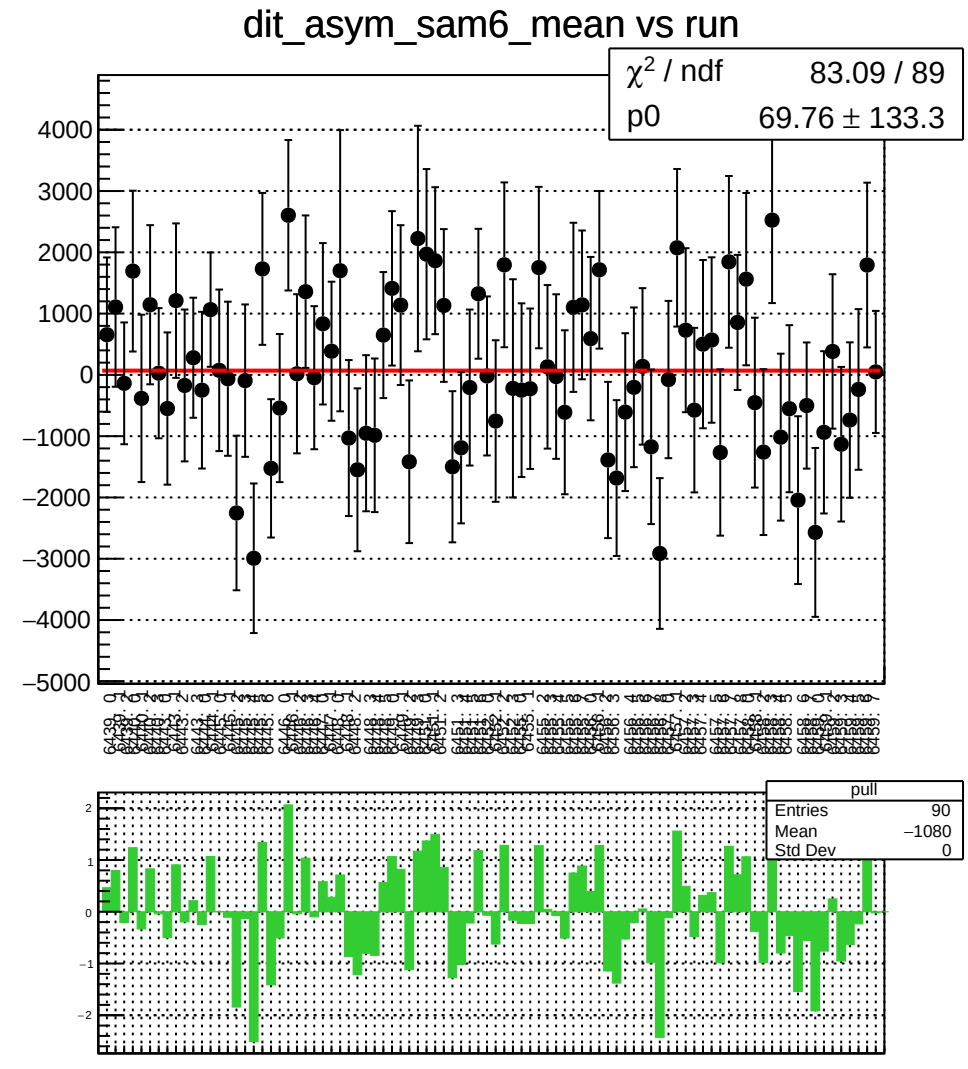

pull1D
Entries 90
Mean 0.008789
Std Dev 1.029
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

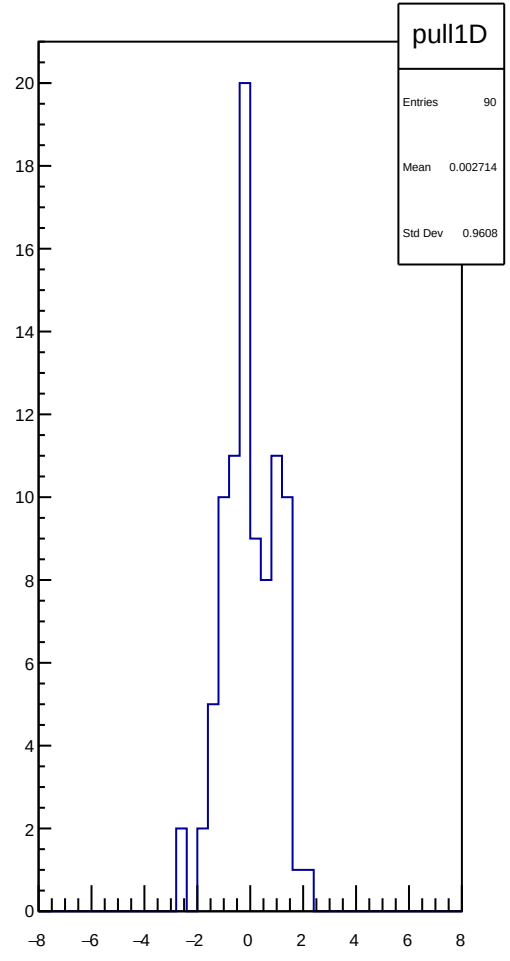

eigen_cor_asym_sam6_rms vs run
χ² / ndf 2.249e+04 / 89
p0 117.1 ± 0.08831
240
220
200
180
160
140
120
100

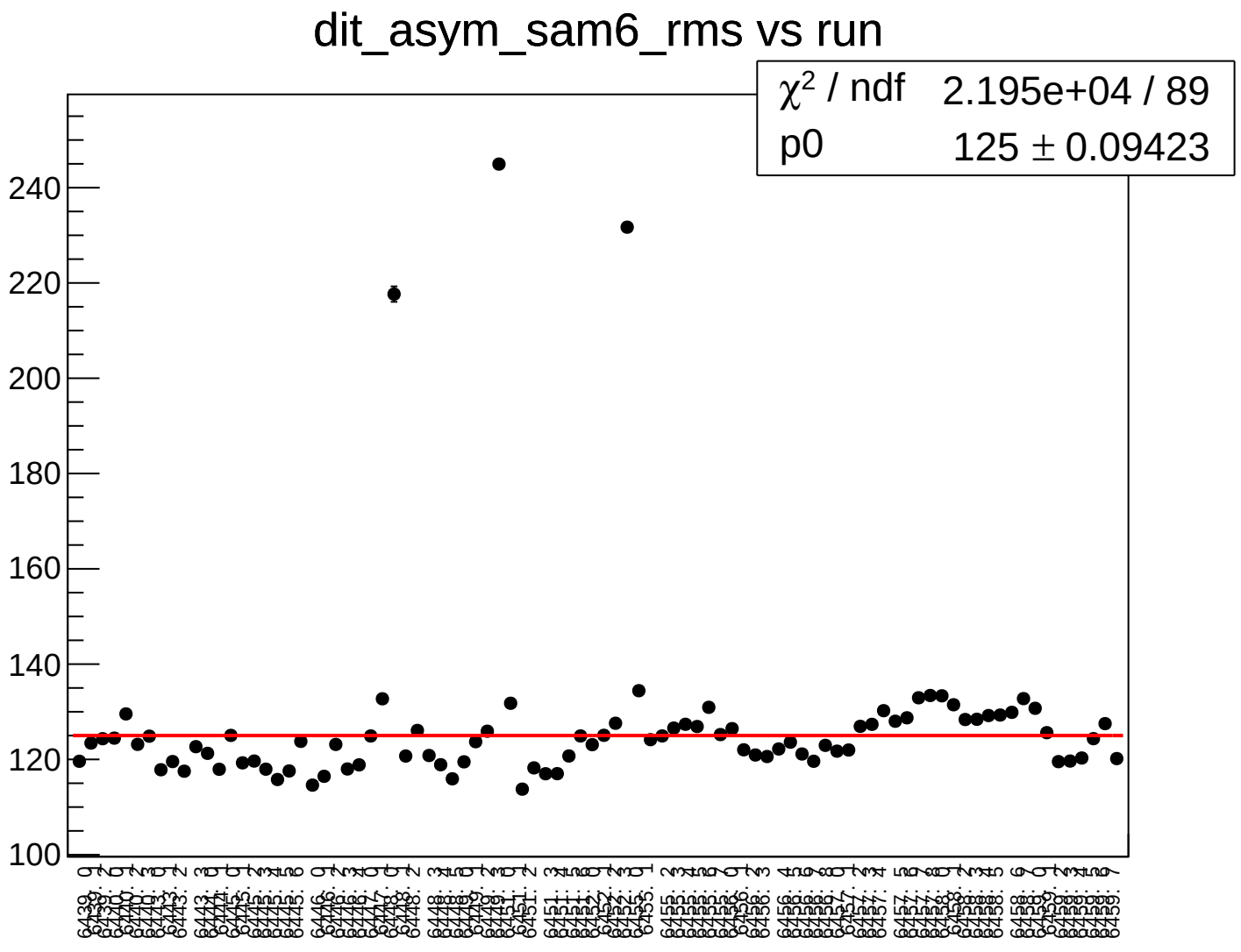

asym_sam6_eigen_cor_correction_mean vs run
χ² / ndf 79.13 / 89
p0 1558 ± 816.5
30000
20000
10000
0
−10000
−20000
pull
Entries 90
Mean −109.2
Std Dev 0
2
1
0
−1
−2

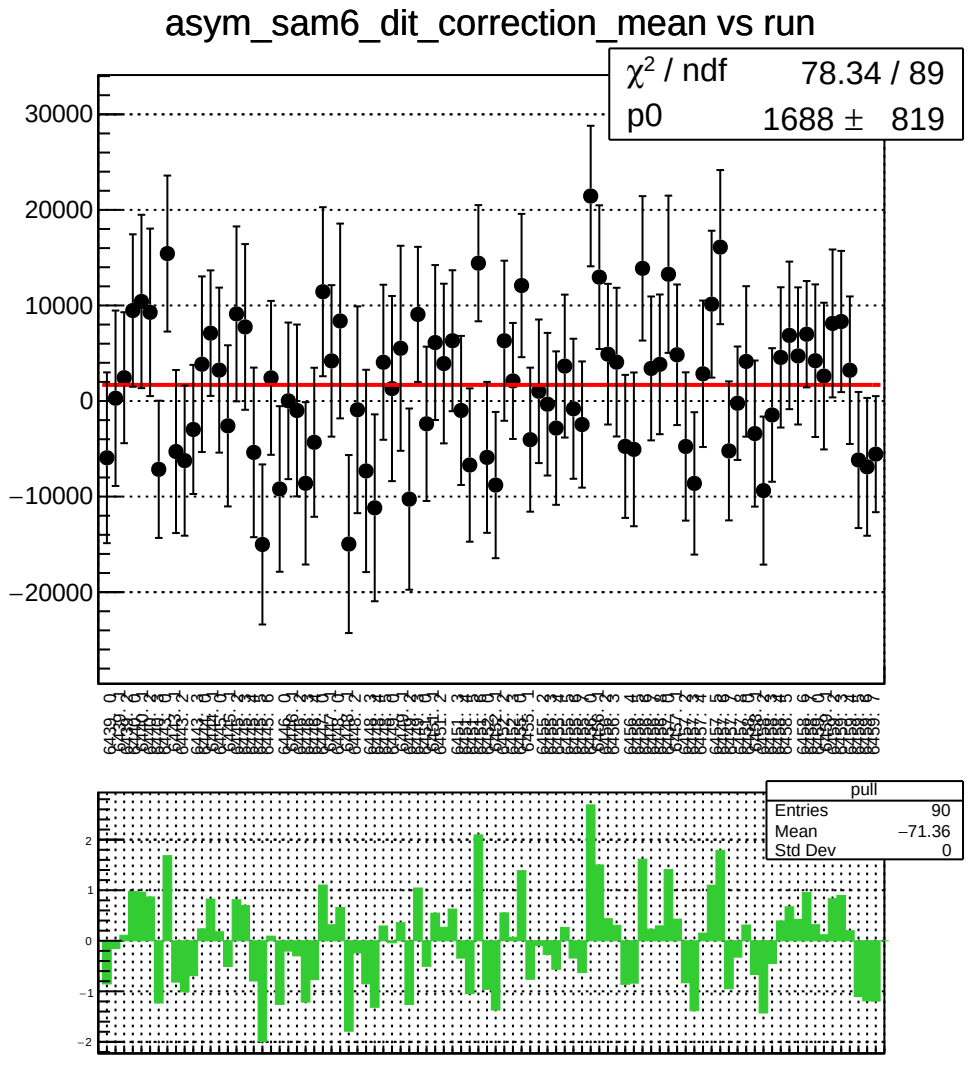

pull1D
Entries 90
Mean −0.01061
Std Dev 0.9376
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

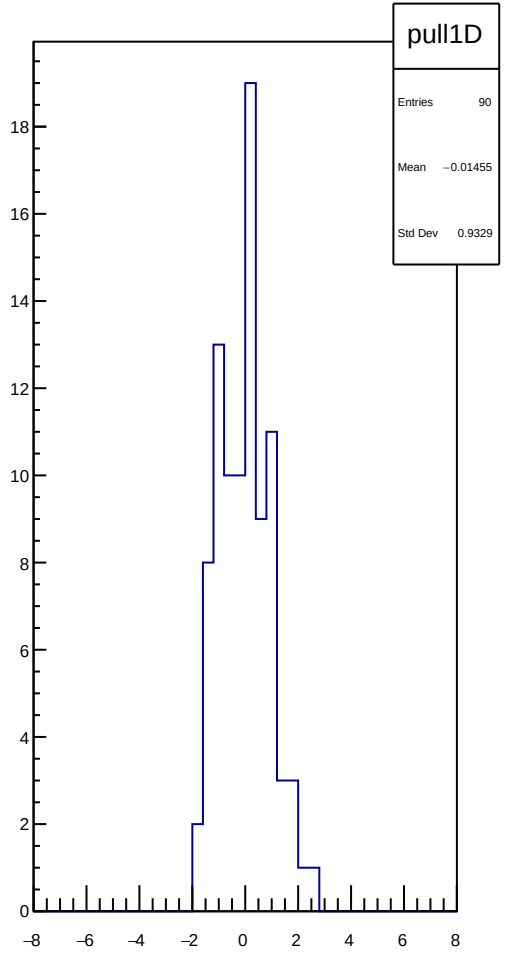

asym_sam6_eigen_cor_correction_rms vs run
χ² / ndf 1.468e+04 / 89
p0 767.5 ± 0.5773
1050
1000
950
900
850
800
750
700
650

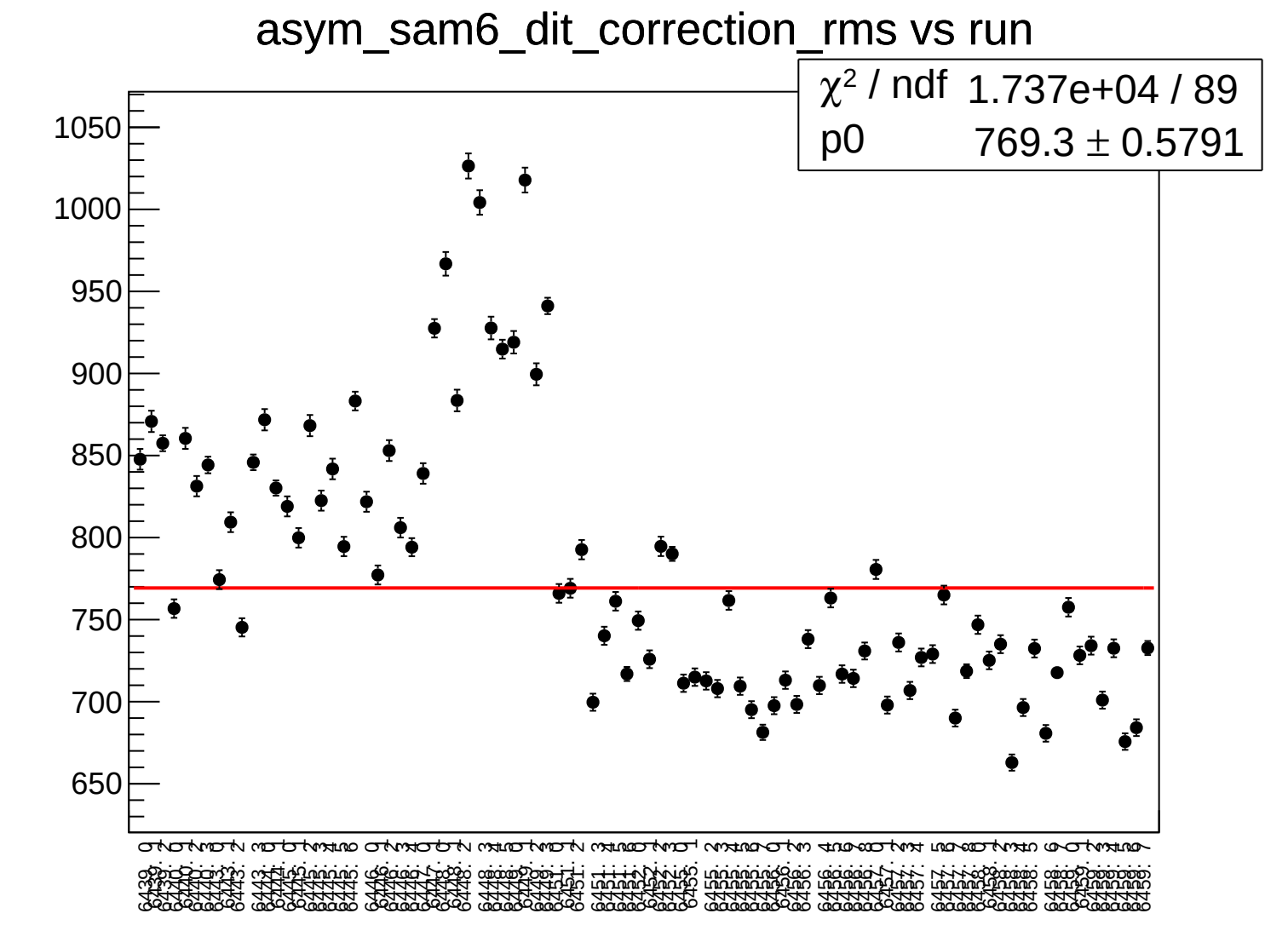

dit_asym_sam6_mean vs run
χ^2 / ndf 83.09 / 89
p0 69.76 ± 133.3
pull
Entries 90
Mean −1080
Std Dev 0

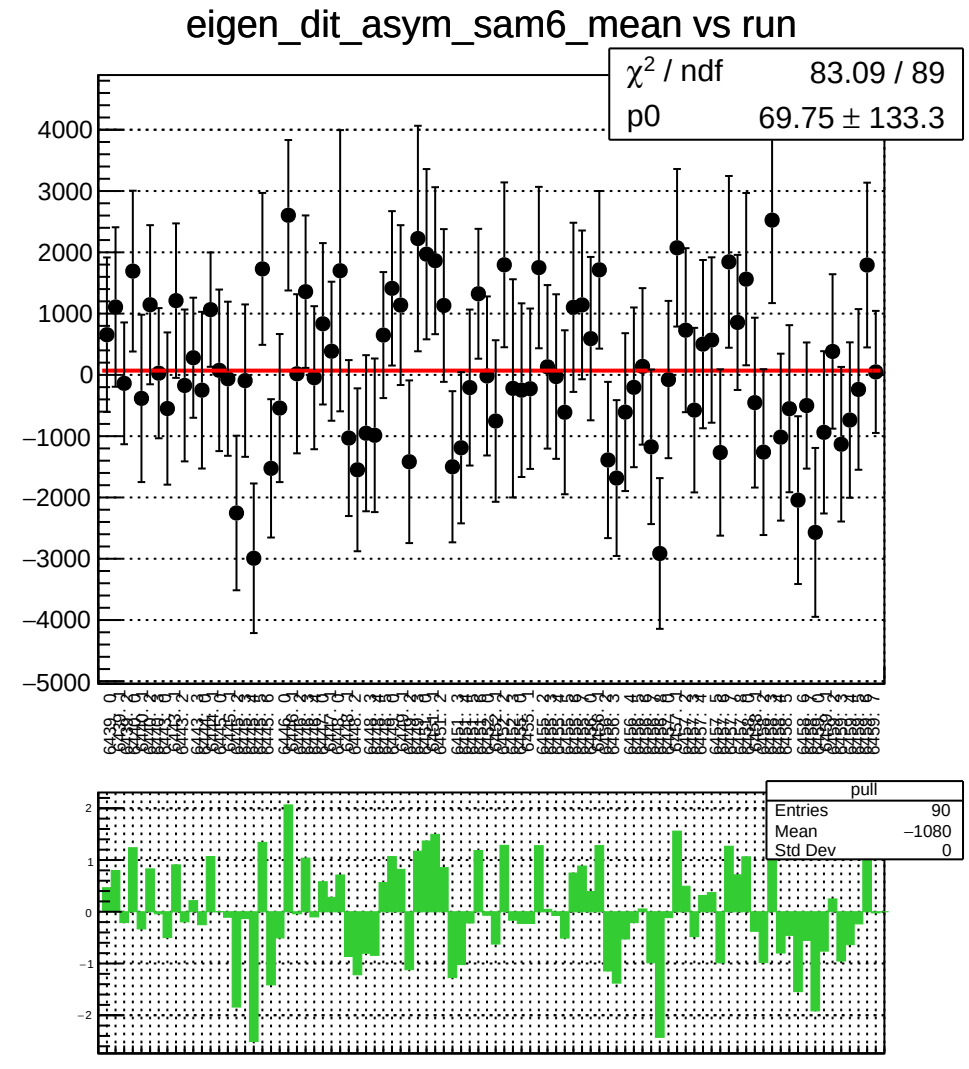

pull1D
Entries 90
Mean 0.002714
Std Dev 0.9608

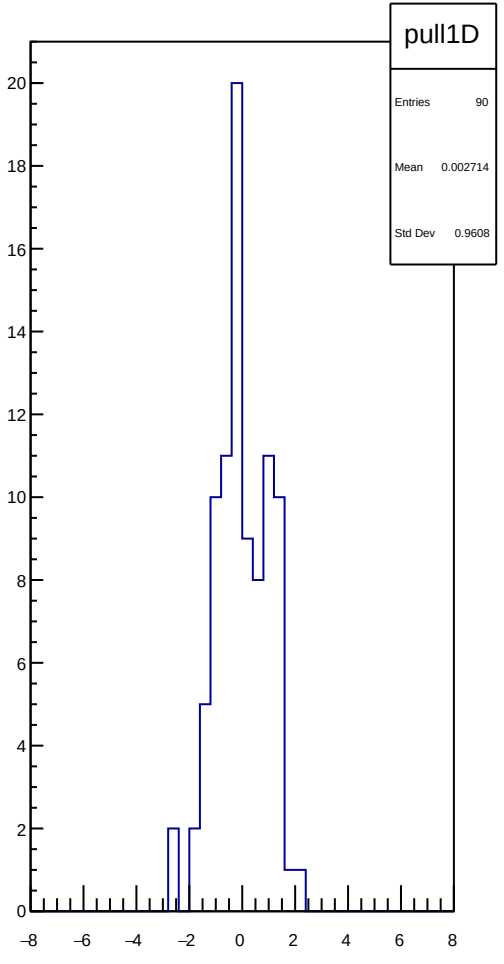

dit_asym_sam6_rms vs run
χ² / ndf 2.195e+04 / 89
p0 125 ± 0.09423
240
220
200
180
160
140
120
100

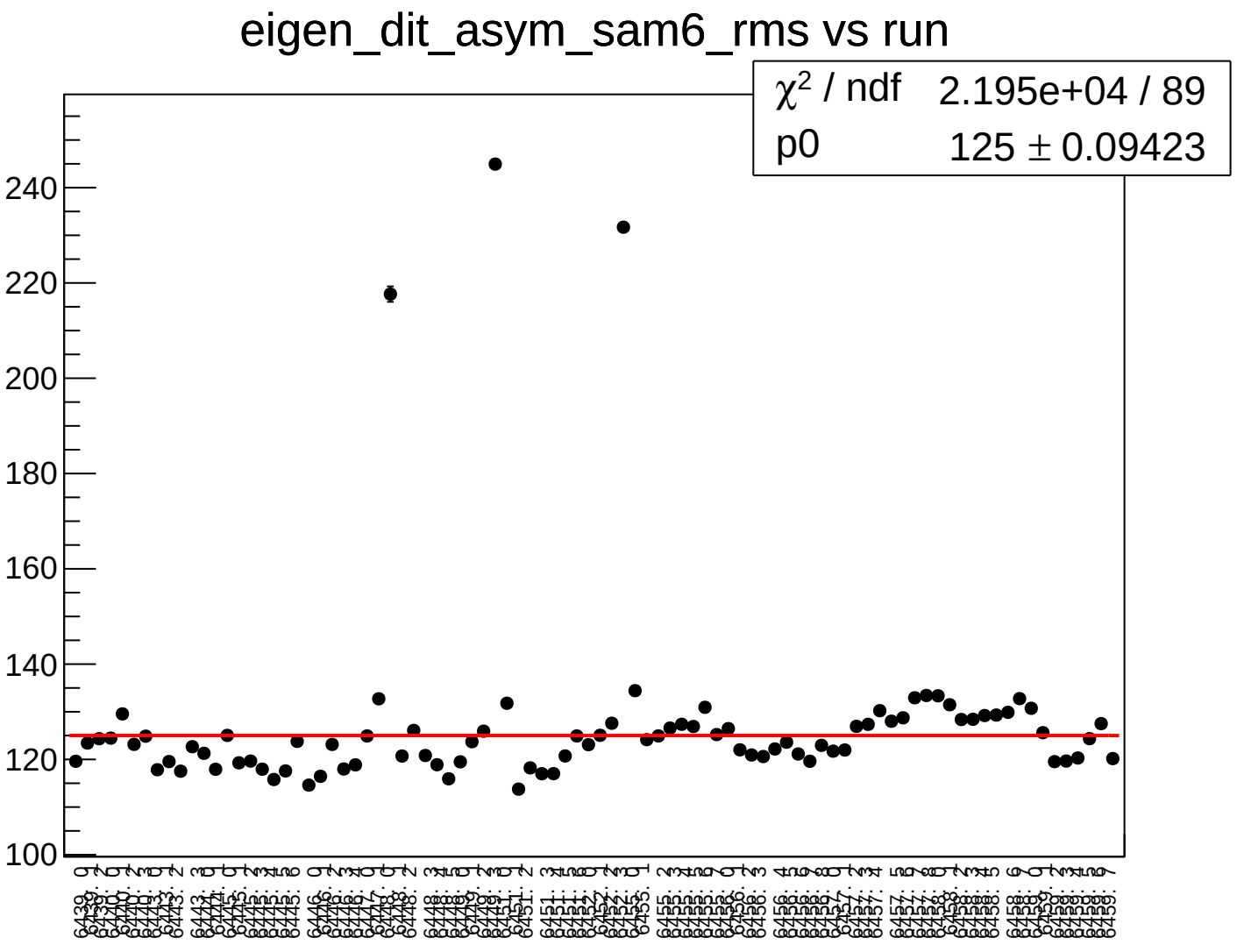

asym_sam6_dit_correction_mean vs run
χ² / ndf 78.34 / 89
p0 1688 ± 819
30000
20000
10000
0
−10000
−20000
pull
Entries 90
Mean −71.36
Std Dev 0
2
1
0
−1
−2

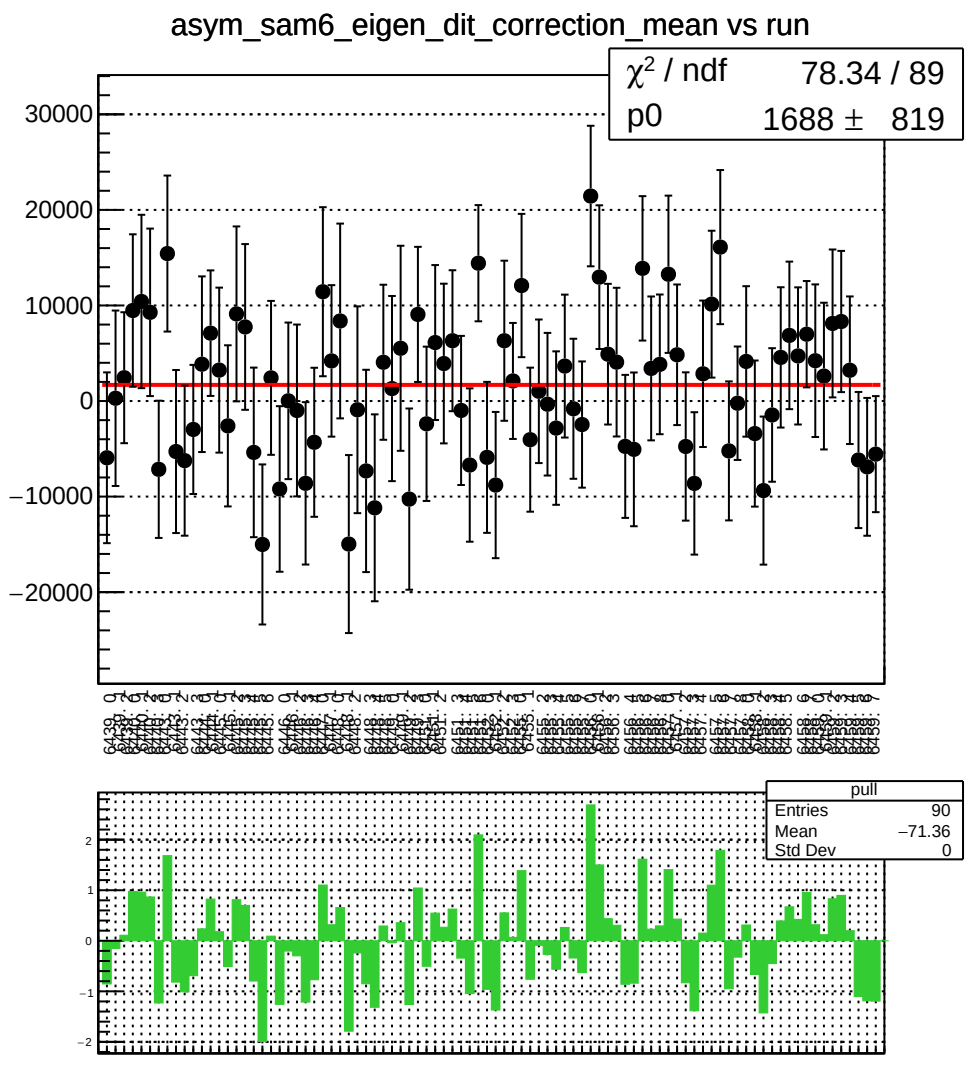

pull1D
Entries 90
Mean −0.01455
Std Dev 0.9329
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

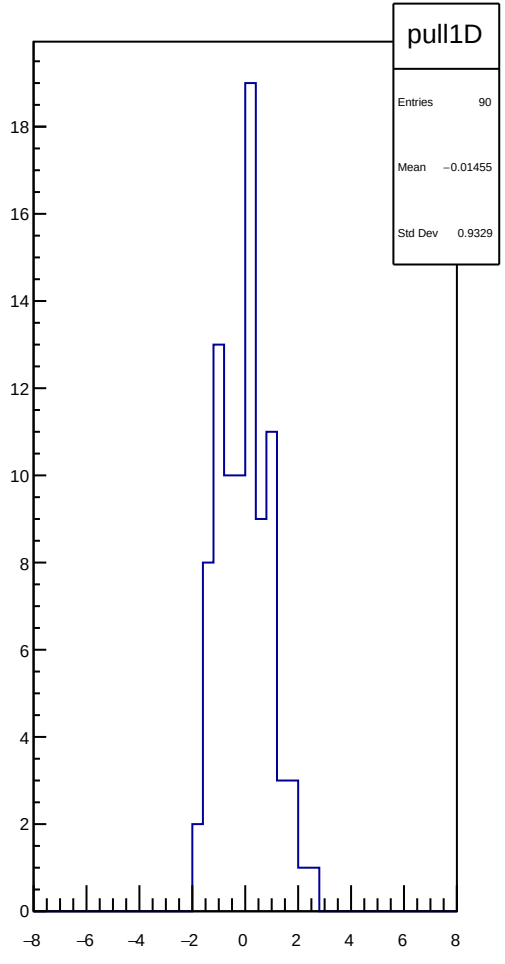

asym_sam6_dit_correction_rms vs run
χ² / ndf 1.737e+04 / 89
p0 769.3 ± 0.5791
1050
1000
950
900
850
800
750
700
650

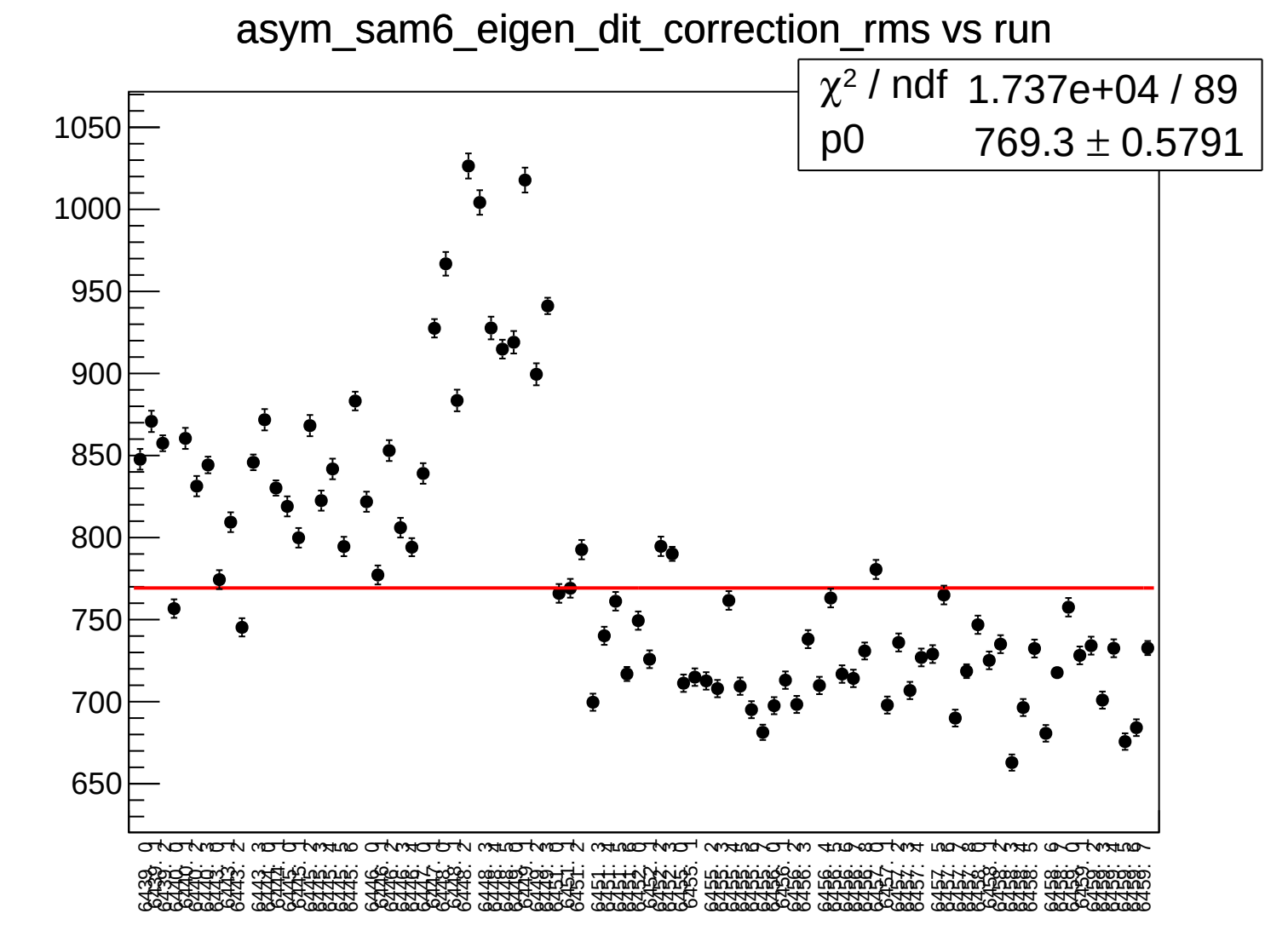

eigen_dit_asym_sam6_mean vs run
χ^2 / ndf 83.09 / 89
p0 69.75 ± 133.3
pull
Entries 90
Mean −1080
Std Dev 0

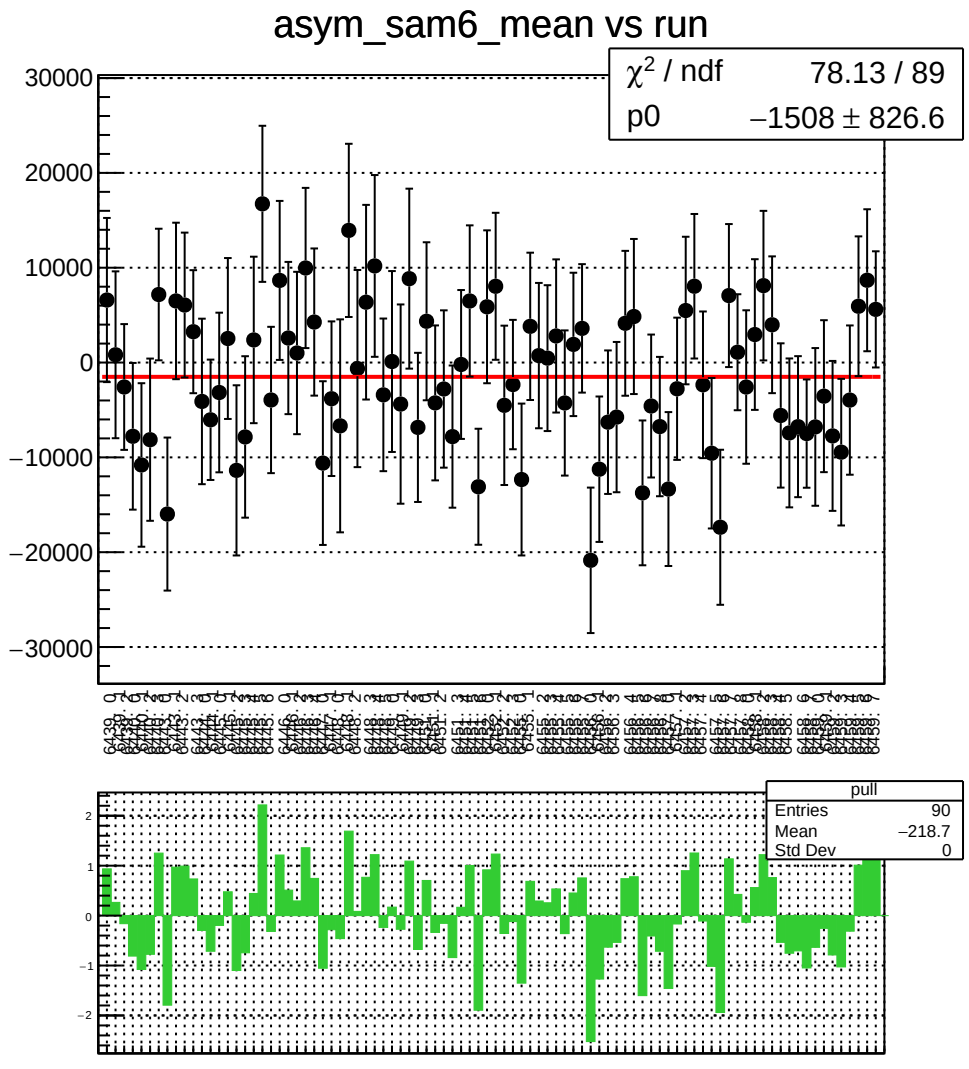

pull1D
Entries 90
Mean 0.002714
Std Dev 0.9608

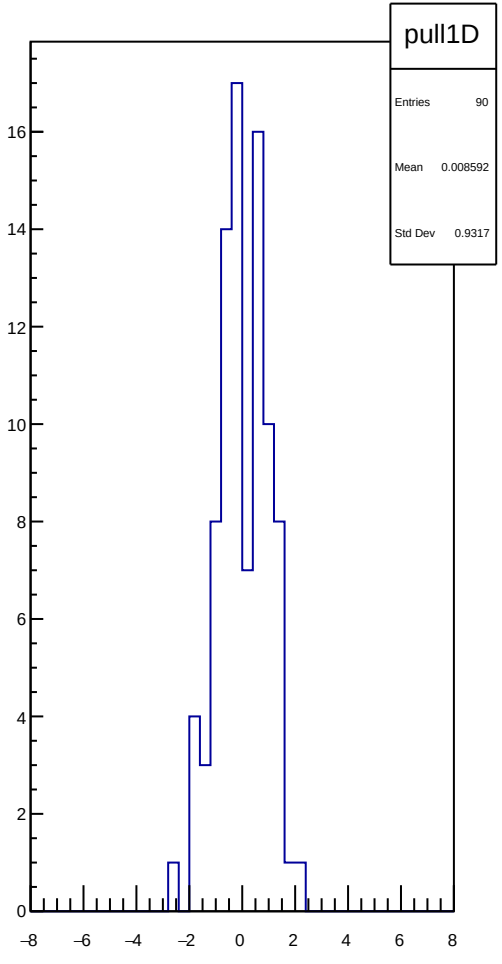

eigen_dit_asym_sam6_rms vs run
χ² / ndf 2.195e+04 / 89
p0 125 ± 0.09423
240
220
200
180
160
140
120
100

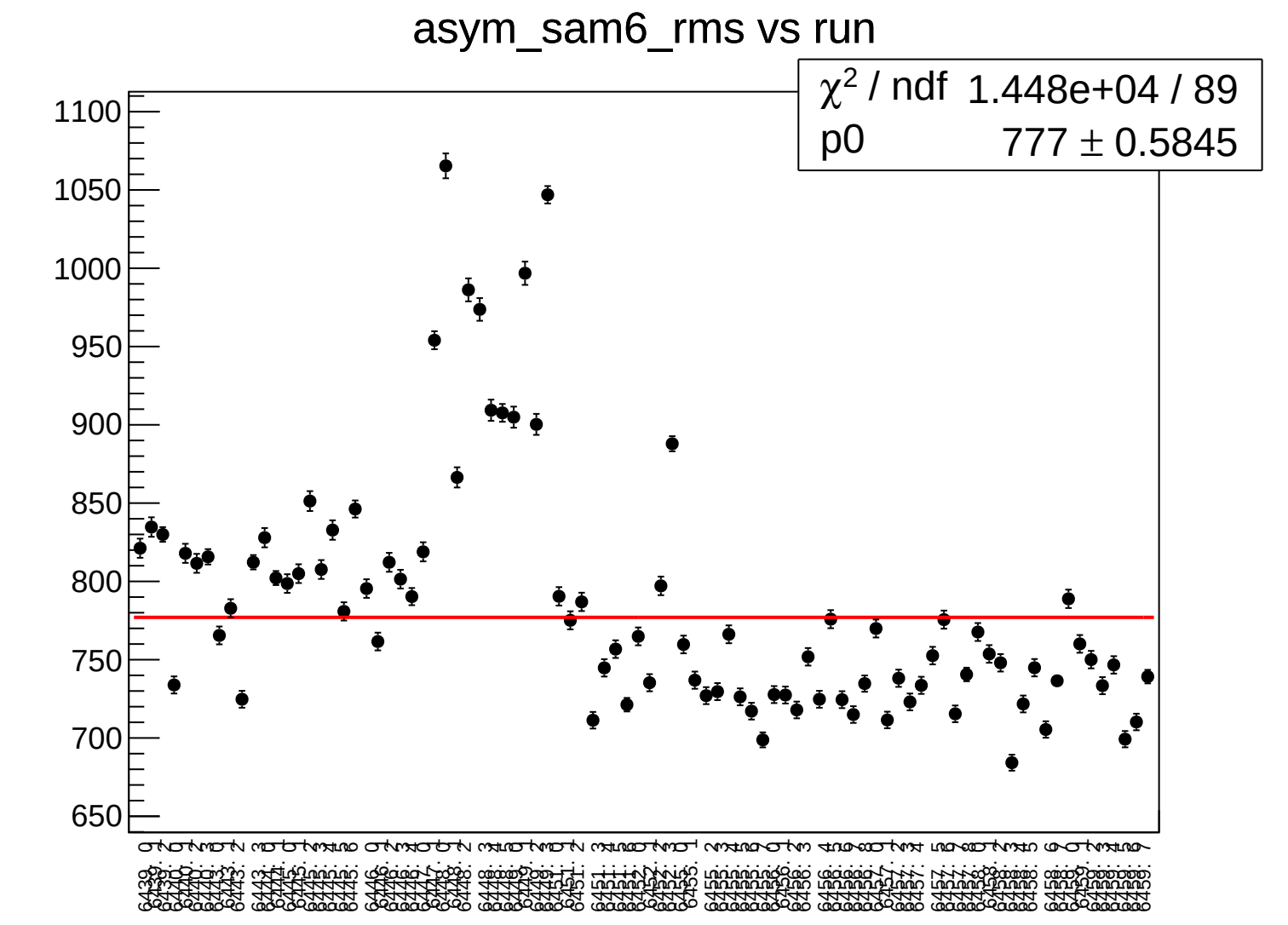

asym_sam6_eigen_dit_correction_mean vs run
χ² / ndf 78.34 / 89
p0 1688 ± 819
30000
20000
10000
0
−10000
−20000
pull
Entries 90
Mean −71.36
Std Dev 0
2
1
0
−1
−2

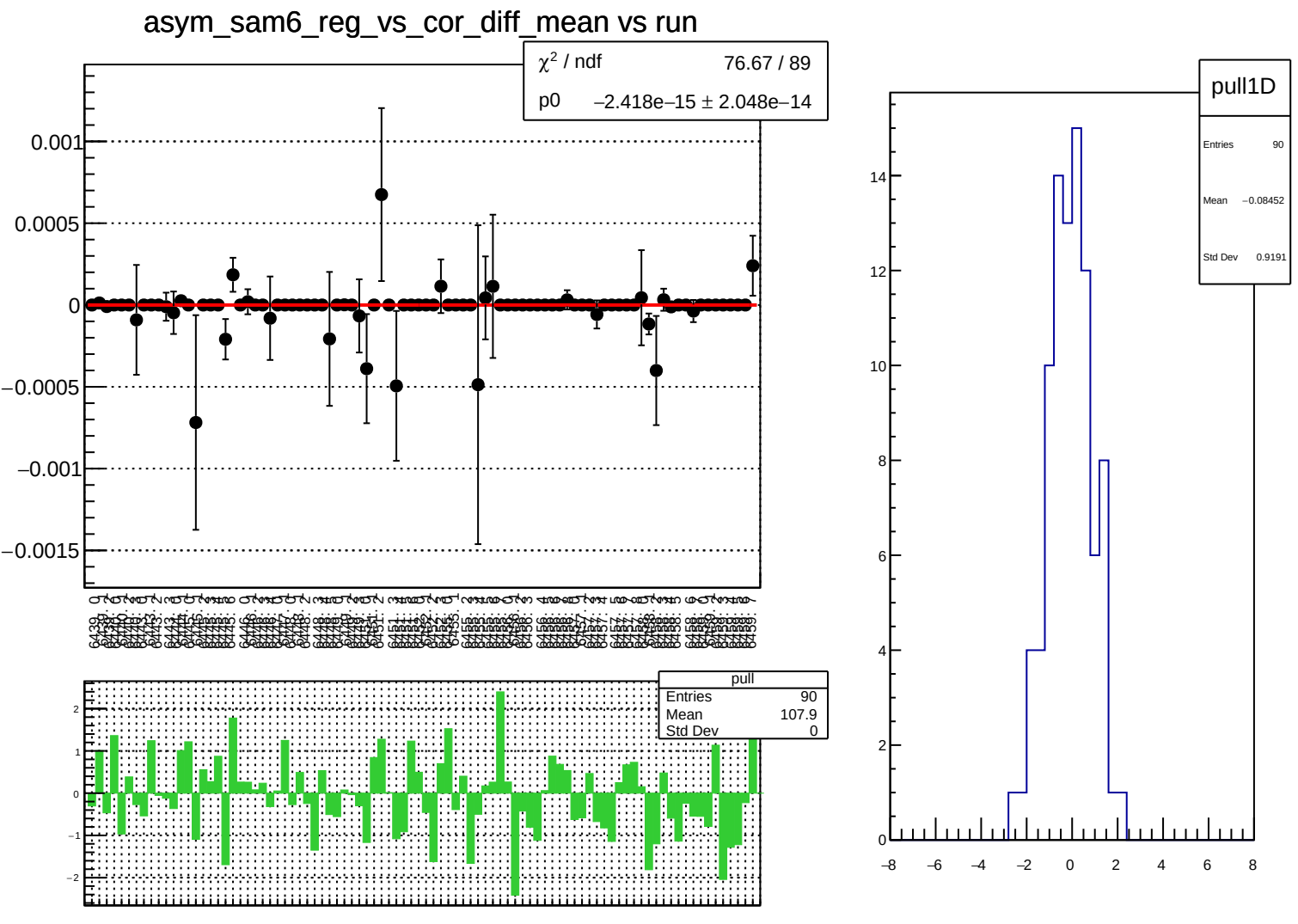

pull1D
Entries 90
Mean −0.01455
Std Dev 0.9329
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

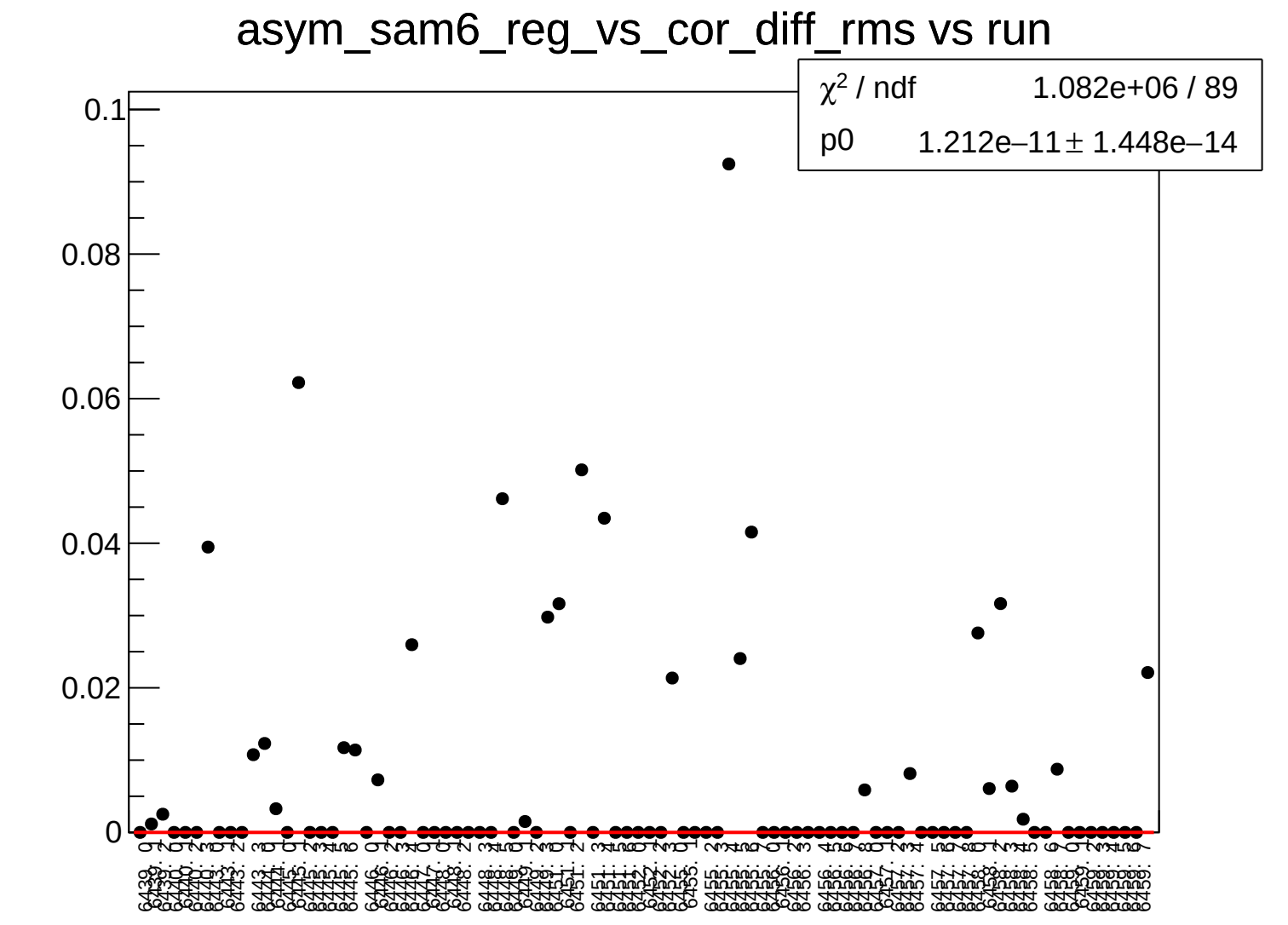

asym_sam6_eigen_dit_correction_rms vs run
χ² / ndf 1.737e+04 / 89
p0 769.3 ± 0.5791
1050
1000
950
900
850
800
750
700
650

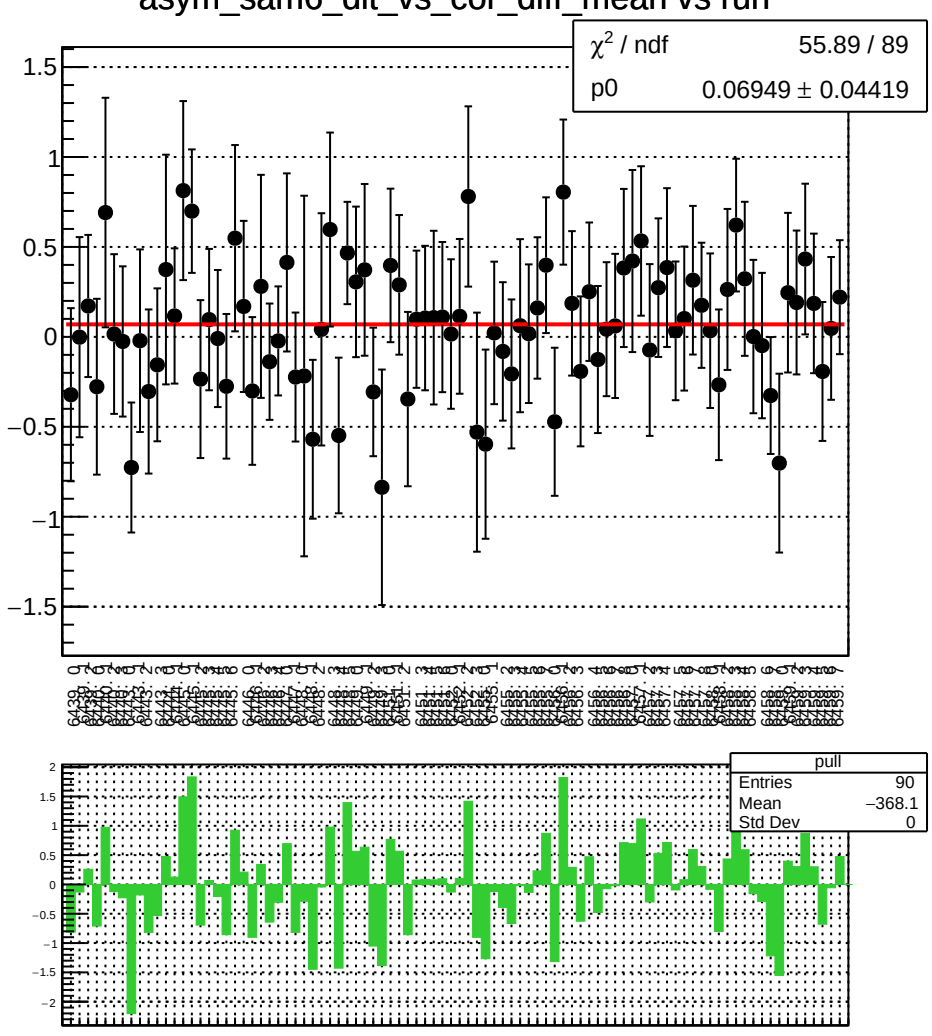

asym_sam6_mean vs run
χ² / ndf 78.13 / 89
p0 −1508 ± 826.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean −218.7
Std Dev 0
2
1
0
−1
−2

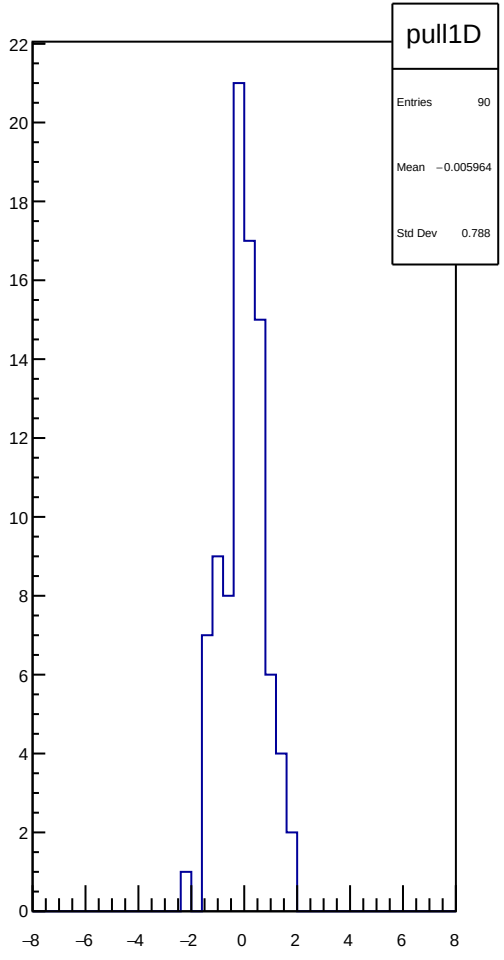

pull1D
Entries 90
Mean 0.008592
Std Dev 0.9317
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

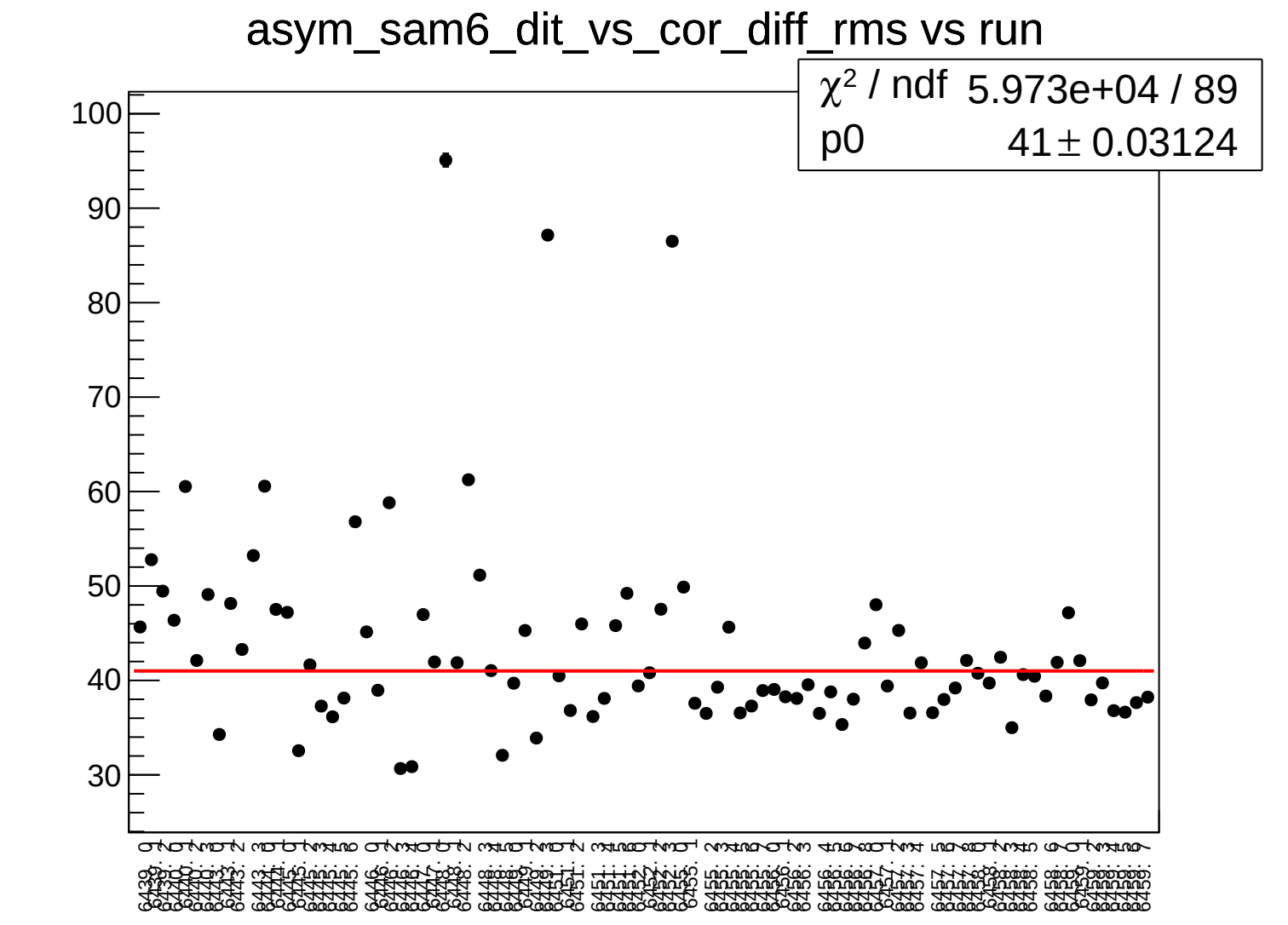

asym_sam6_rms vs run
χ^2 / ndf 1.448e+04 / 89
p0 777 ± 0.5845
1100
1050
1000
950
900
850
800
750
700
650

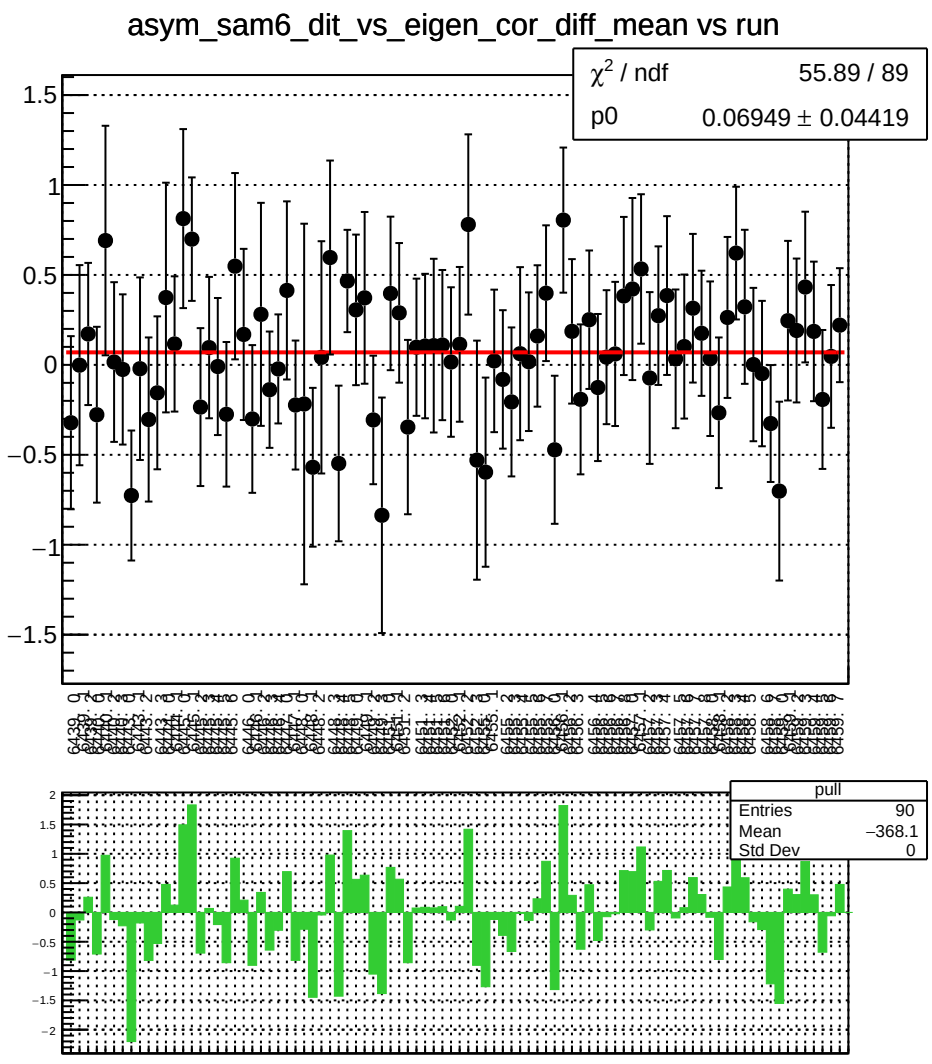

asym_sam6_reg_vs_cor_diff_mean vs run
χ² / ndf 76.67 / 89
p0 −2.418e−15 ± 2.048e−14
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 90
Mean 107.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.08452
Std Dev 0.9191
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

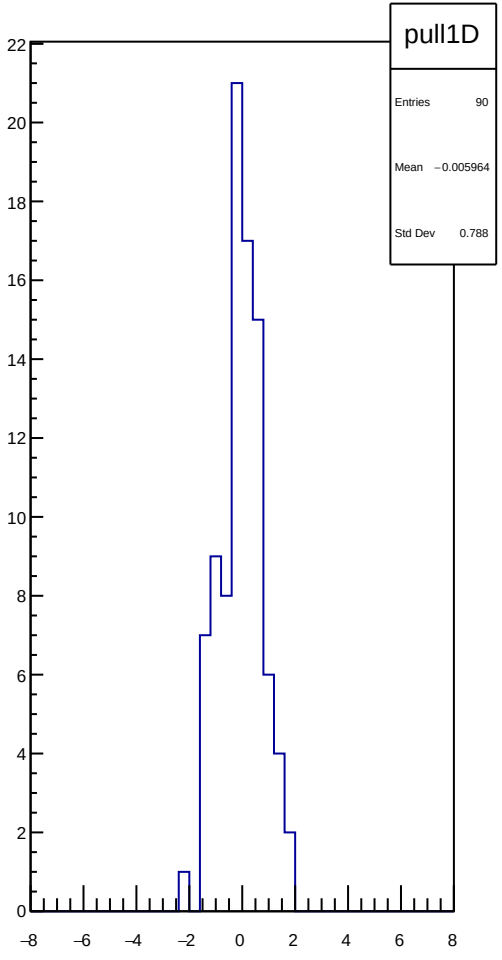

asym_sam6_reg_vs_cor_diff_rms vs run
χ² / ndf 1.082e+06 / 89
p0 1.212e−11 ± 1.448e−14
0.1
0.08
0.06
0.04
0.02
0

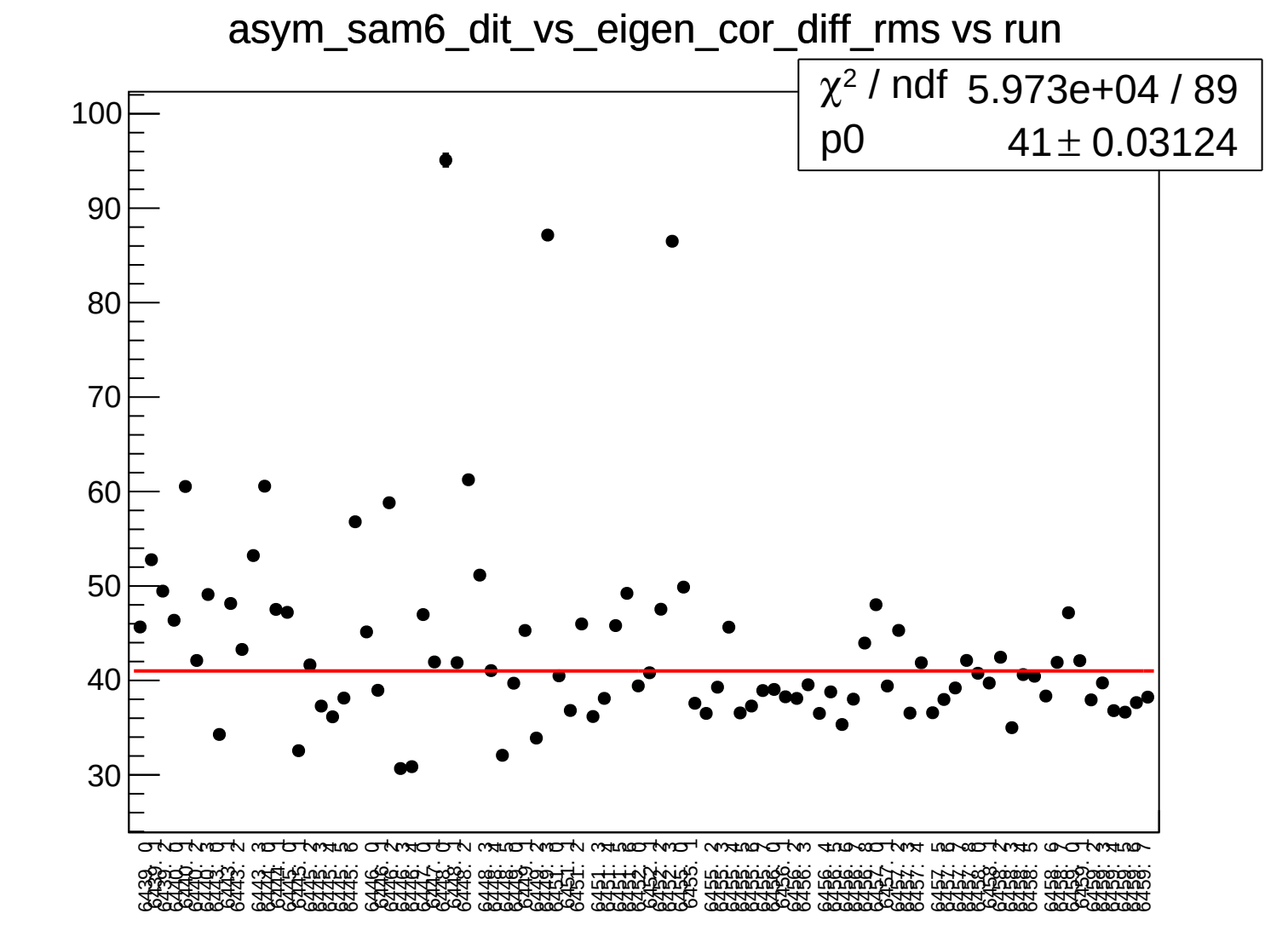

asym_sam6_dit_vs_cor_diff_mean vs run
χ² / ndf 55.89 / 89
p0 0.06949 ± 0.04419
pull
Entries 90
Mean −368.1
Std Dev 0

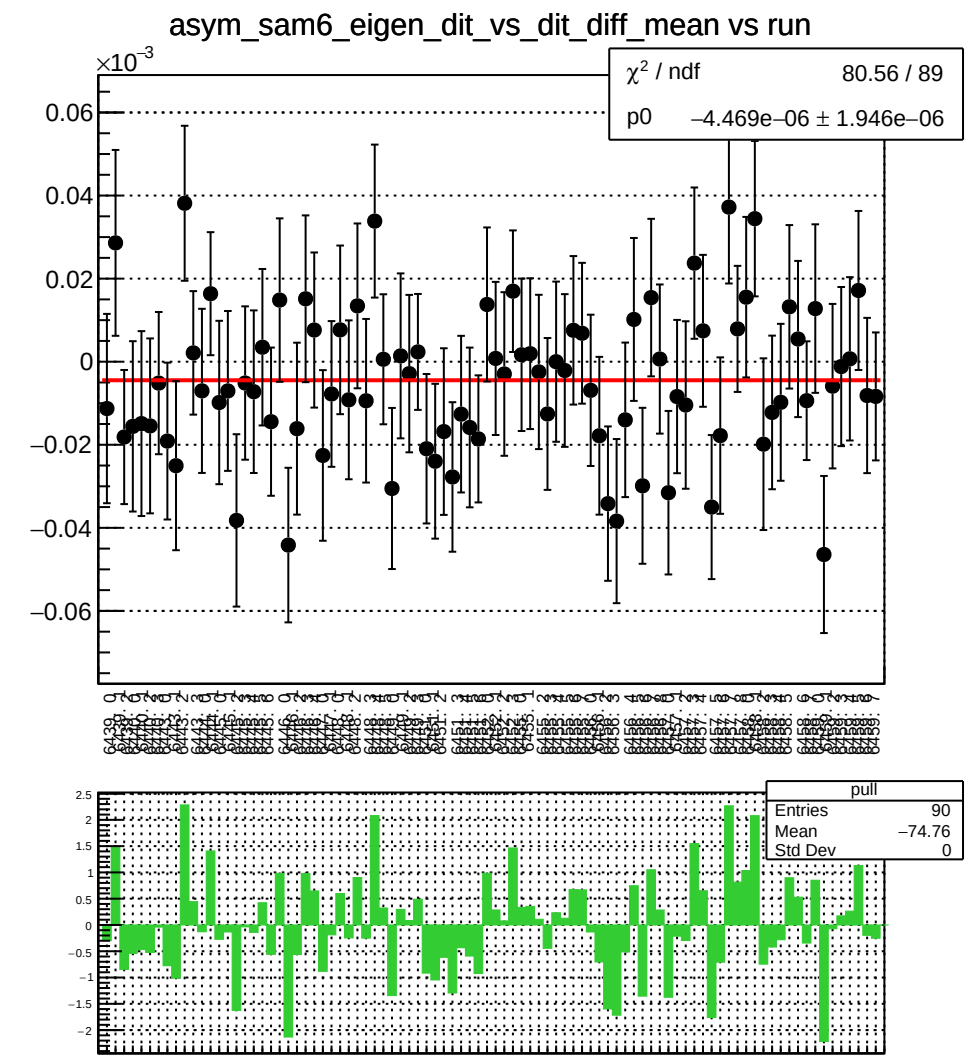

pull1D
Entries 90
Mean −0.005964
Std Dev 0.788

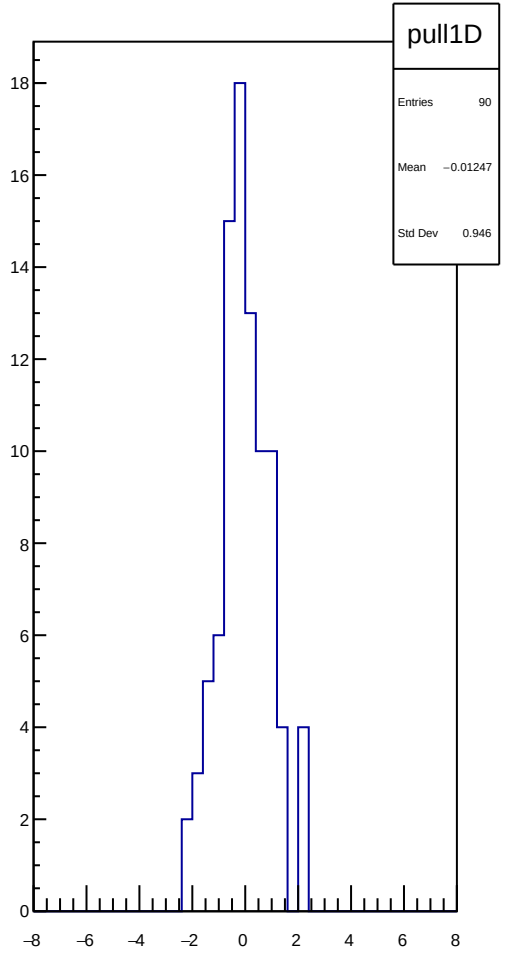

asym_sam6_dit_vs_cor_diff_rms vs run
χ² / ndf 5.973e+04 / 89
p0 41 ± 0.03124
100
90
80
70
60
50
40
30

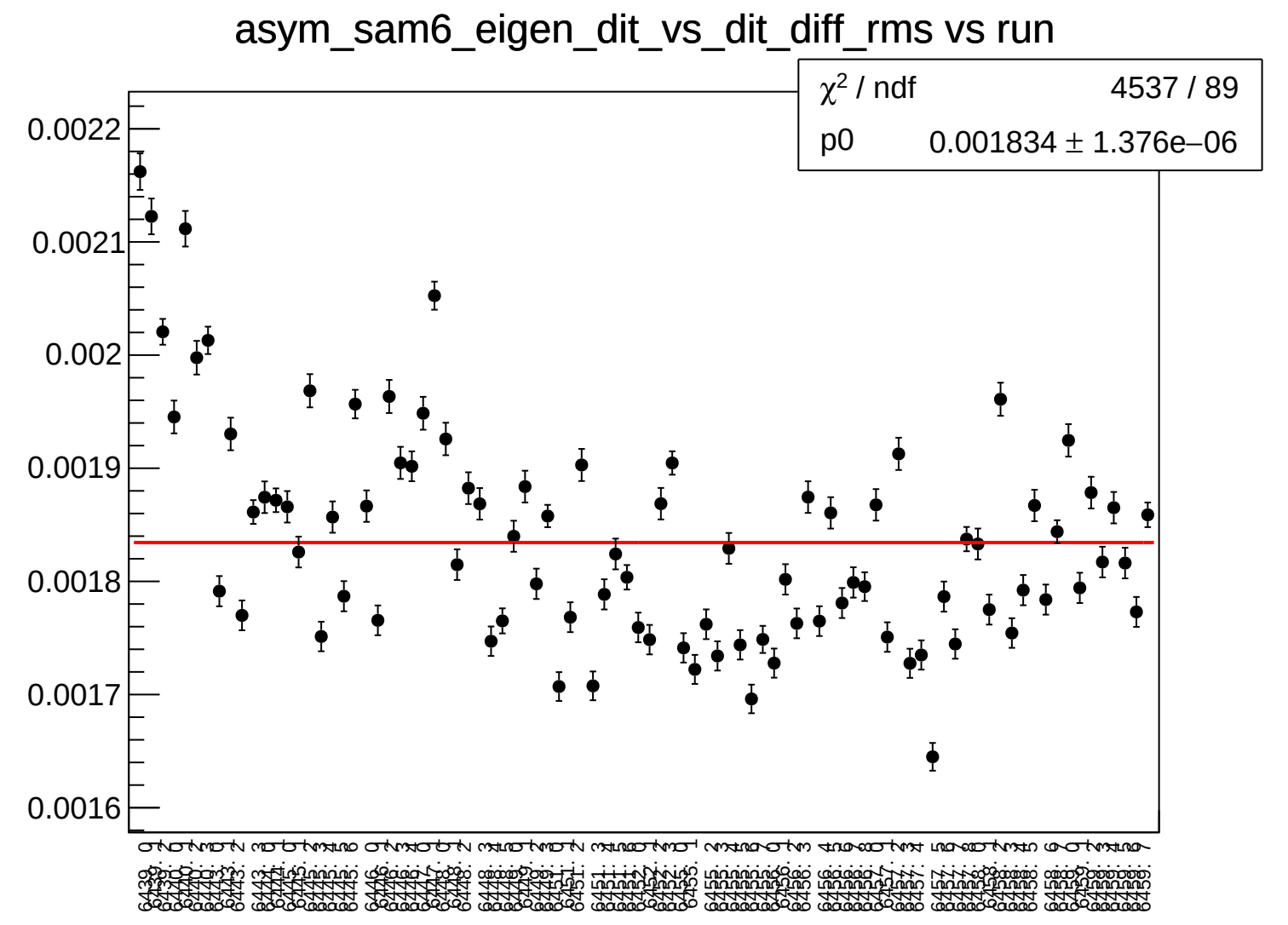

asym_sam6_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 55.89 / 89
p0 0.06949 ± 0.04419
pull
Entries 90
Mean −368.1
Std Dev 0

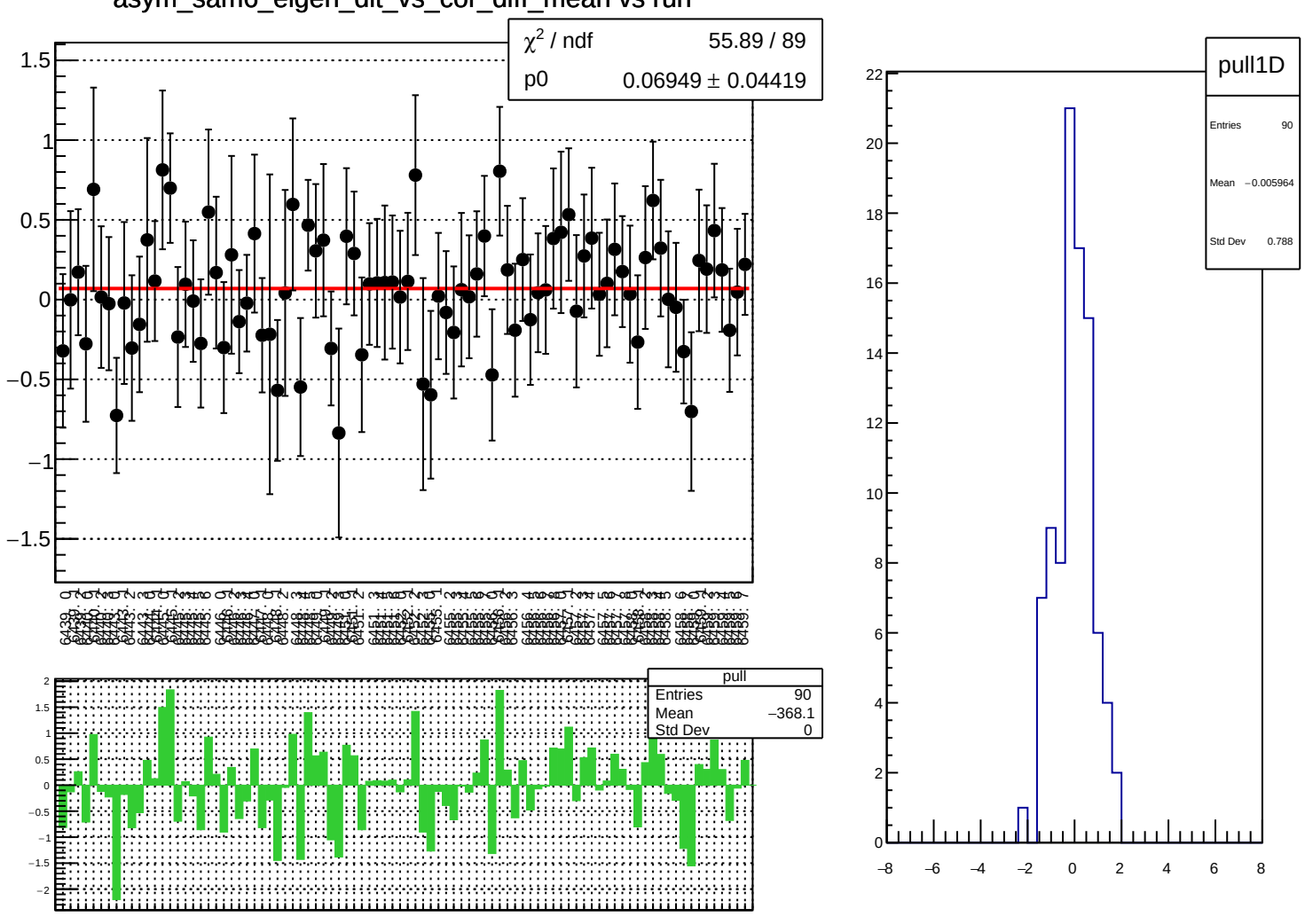

pull1D
Entries 90
Mean −0.005964
Std Dev 0.788

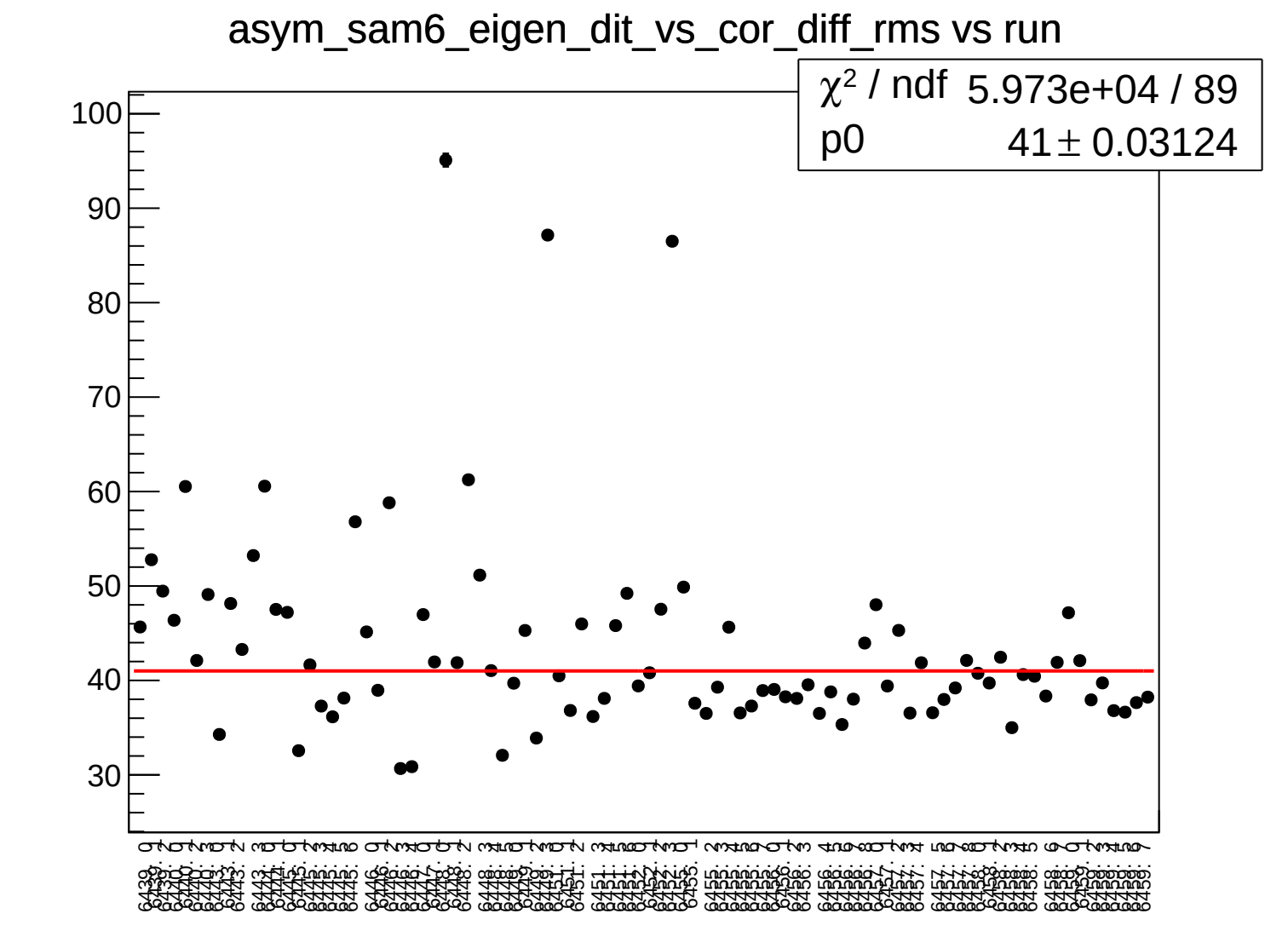

asym_sam6_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.973e+04 / 89
p0 41 ± 0.03124
100
90
80
70
60
50
40
30

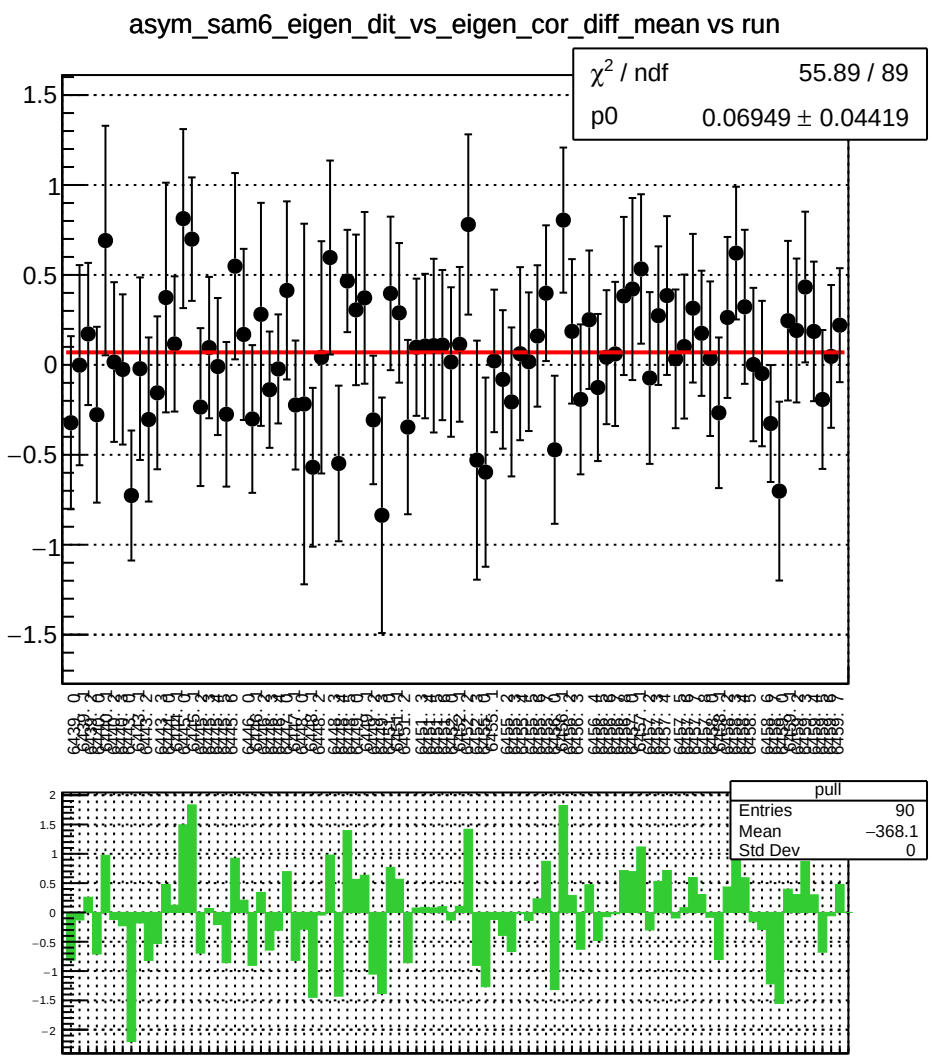

asym_sam6_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 80.56 / 89
p0 −4.469e−06 ± 1.946e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 90
Mean −74.76
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

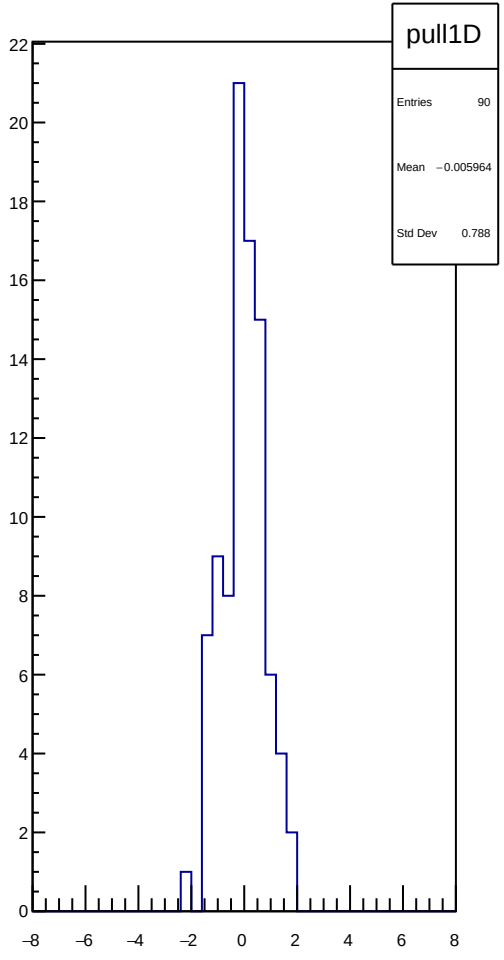

pull1D
Entries 90
Mean −0.01247
Std Dev 0.946
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

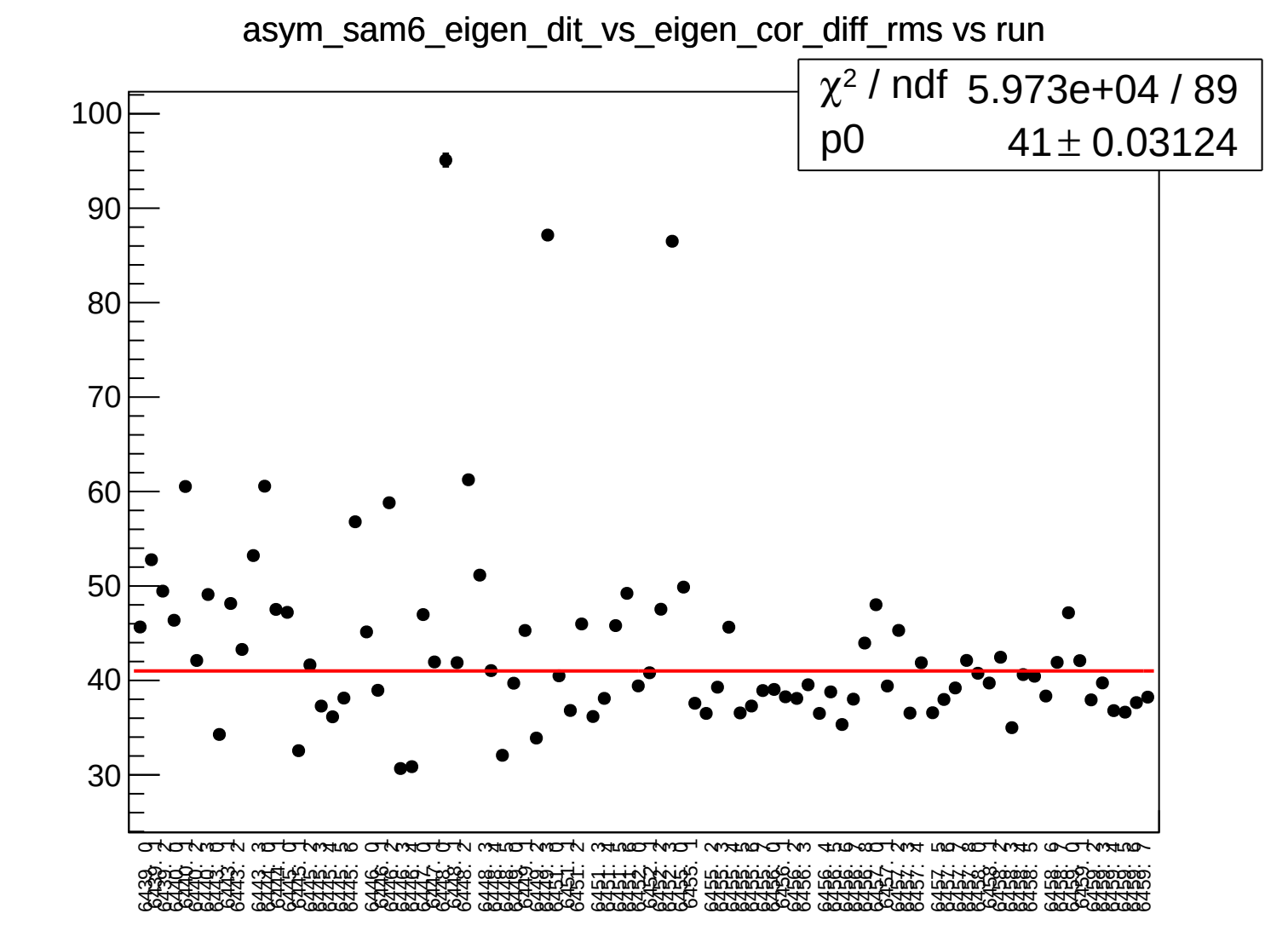

asym_sam6_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4537 / 89
p0 0.001834 ± 1.376e−06
0.0022
0.0021
0.002
0.0019
0.0018
0.0017
0.0016

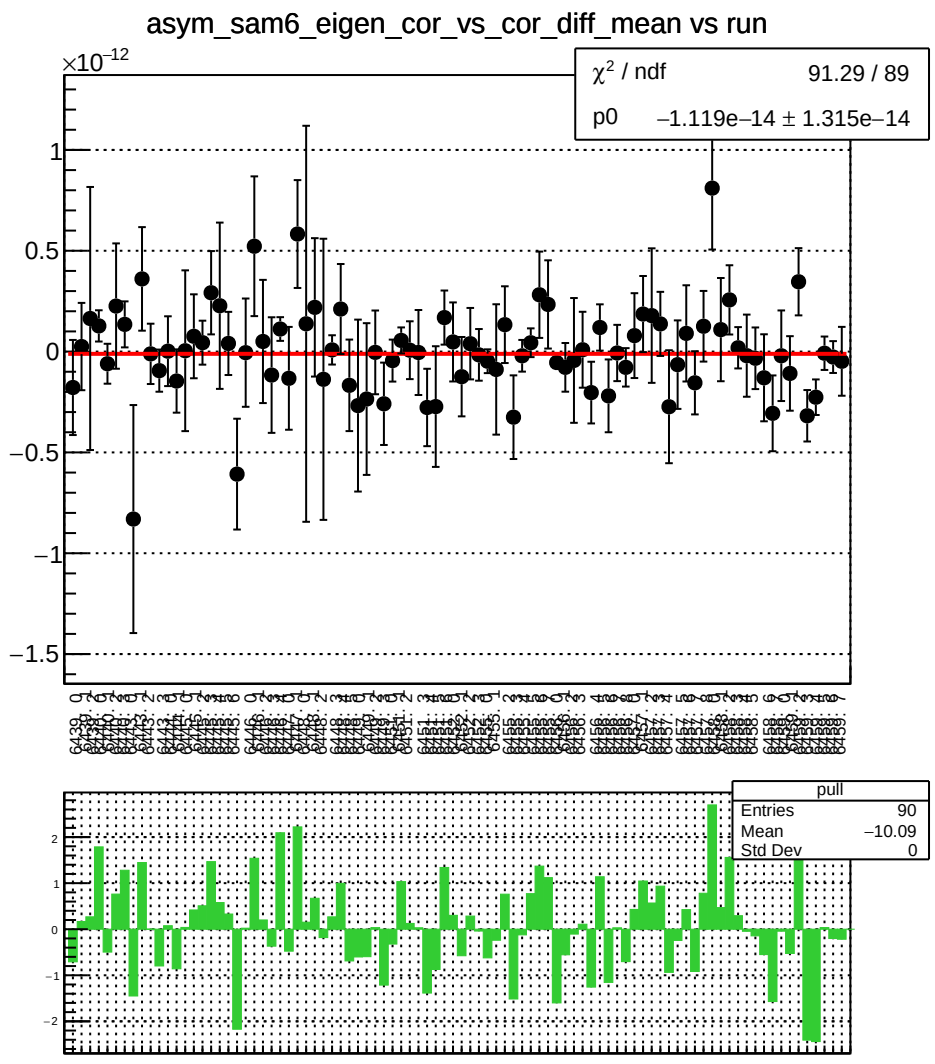

asym_sam6_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 55.89 / 89
p0 0.06949 ± 0.04419
pull
Entries 90
Mean −368.1
Std Dev 0
pull1D
Entries 90
Mean −0.005964
Std Dev 0.788

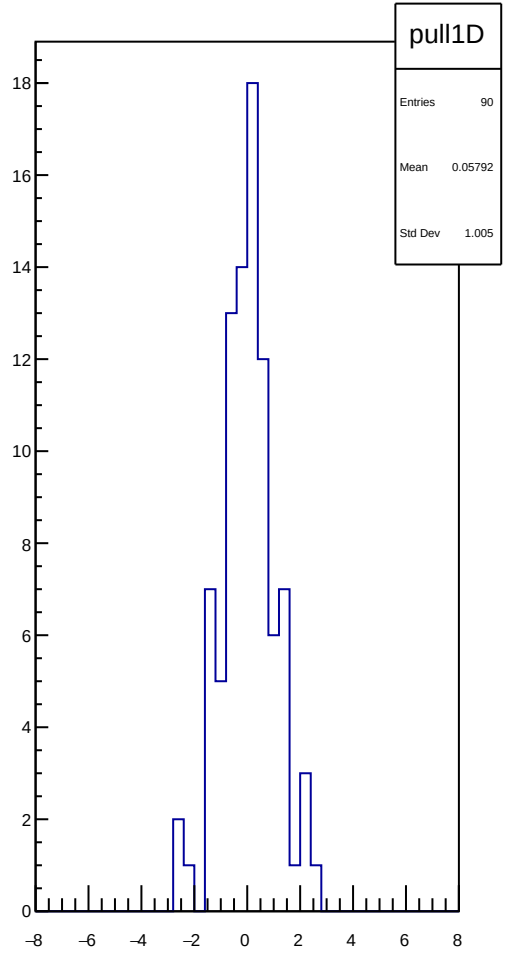

asym_sam6_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.973e+04 / 89
p0 41 ± 0.03124
100
90
80
70
60
50
40
30

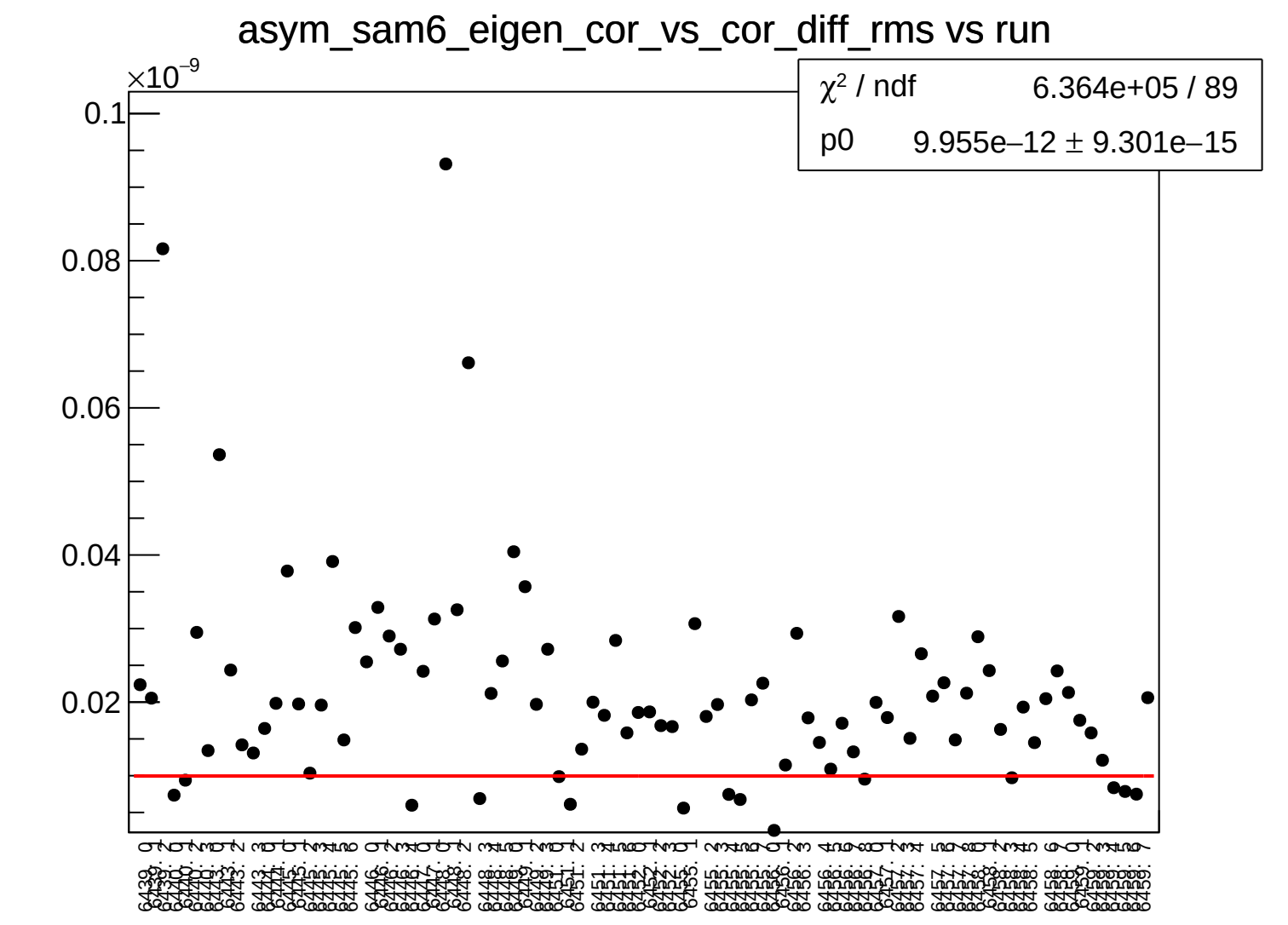

asym_sam6_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 55.89 / 89
p0 0.06949 ± 0.04419
pull
Entries 90
Mean −368.1
Std Dev 0

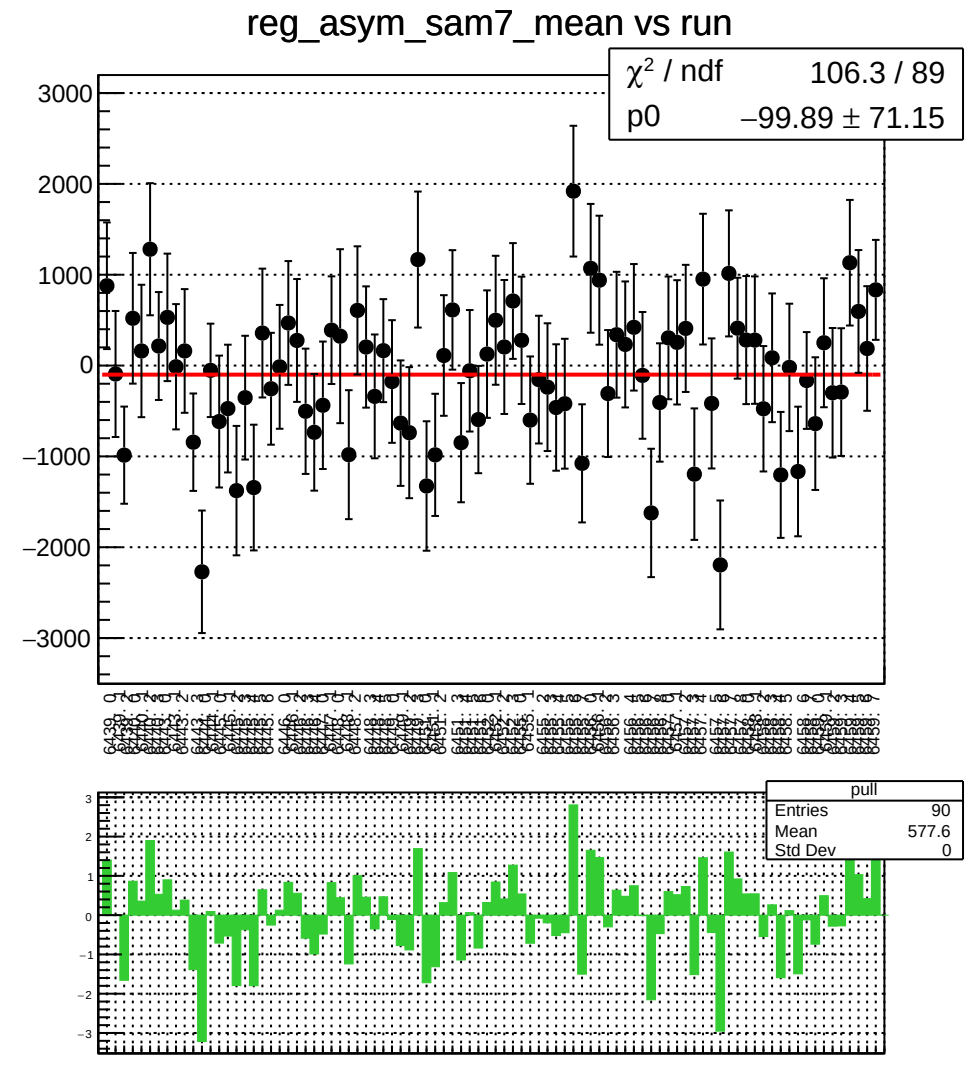

pull1D
Entries 90
Mean −0.005964
Std Dev 0.788

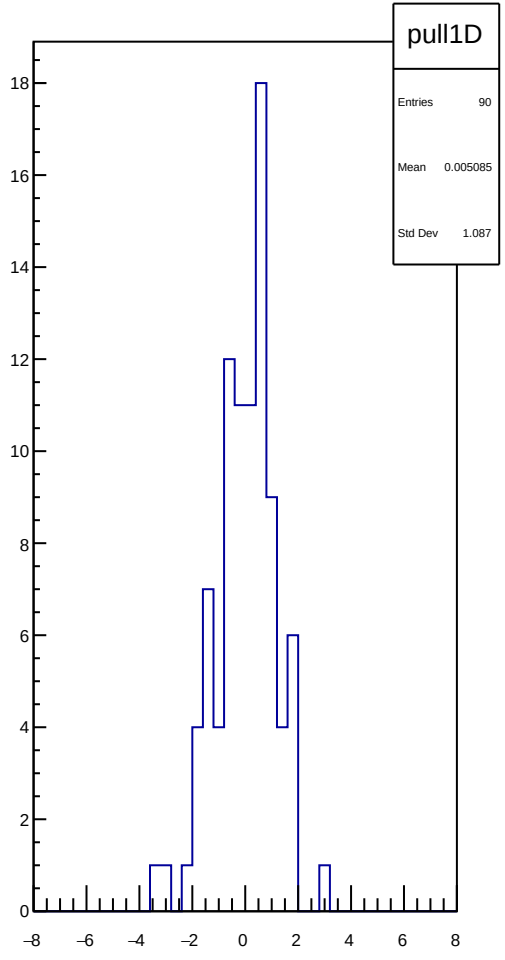

asym_sam6_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.973e+04 / 89
p0 41 ± 0.03124
100
90
80
70
60
50
40
30

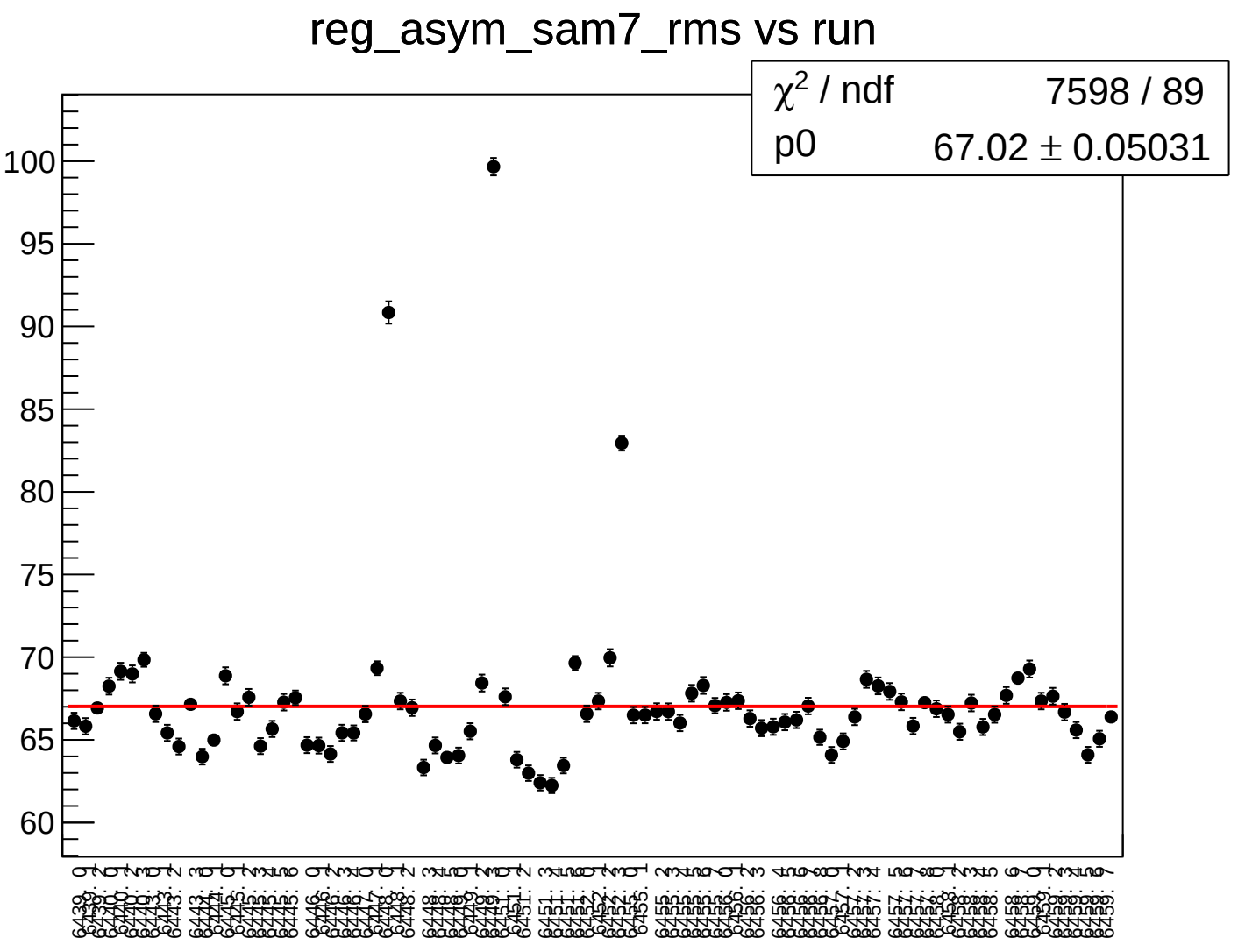

asym_sam6_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.29 / 89
p0 −1.119e−14 ± 1.315e−14
pull
Entries 90
Mean −10.09
Std Dev 0

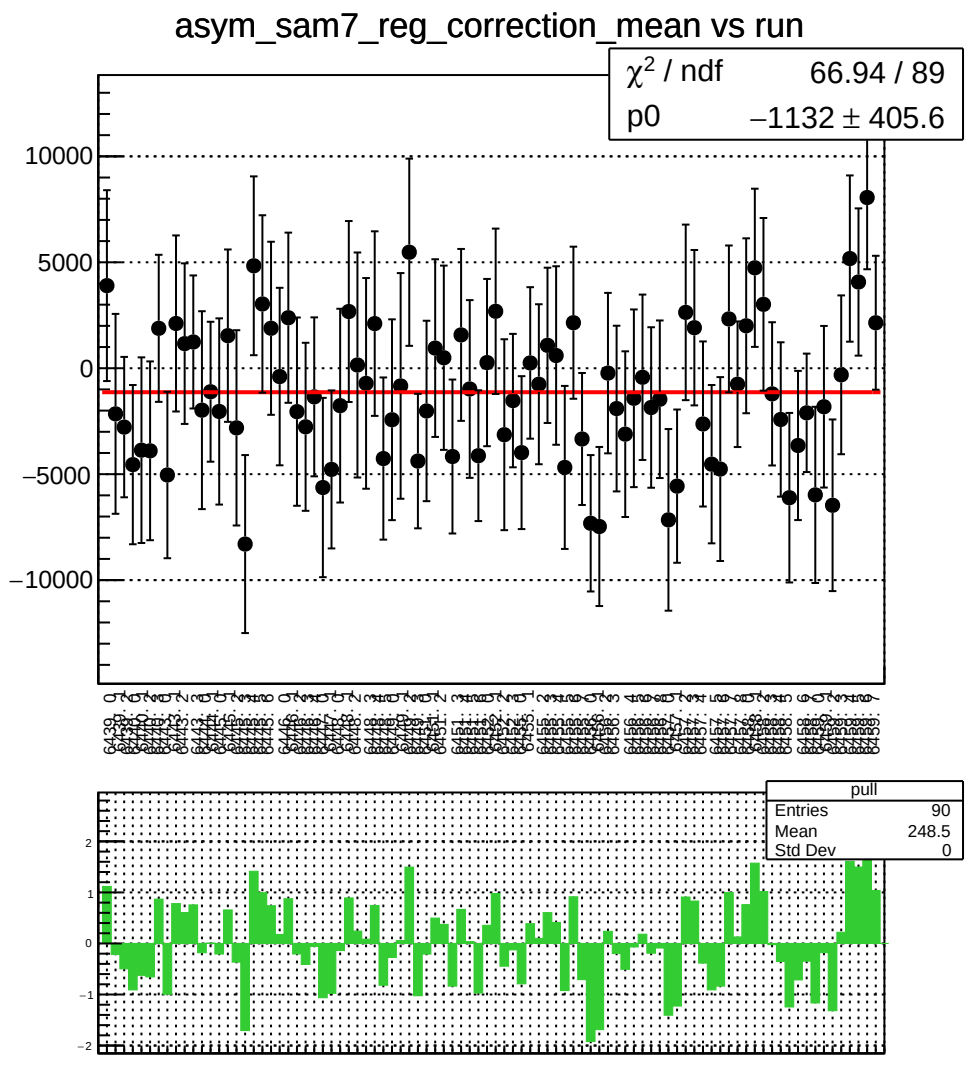

pull1D
Entries 90
Mean 0.05792
Std Dev 1.005

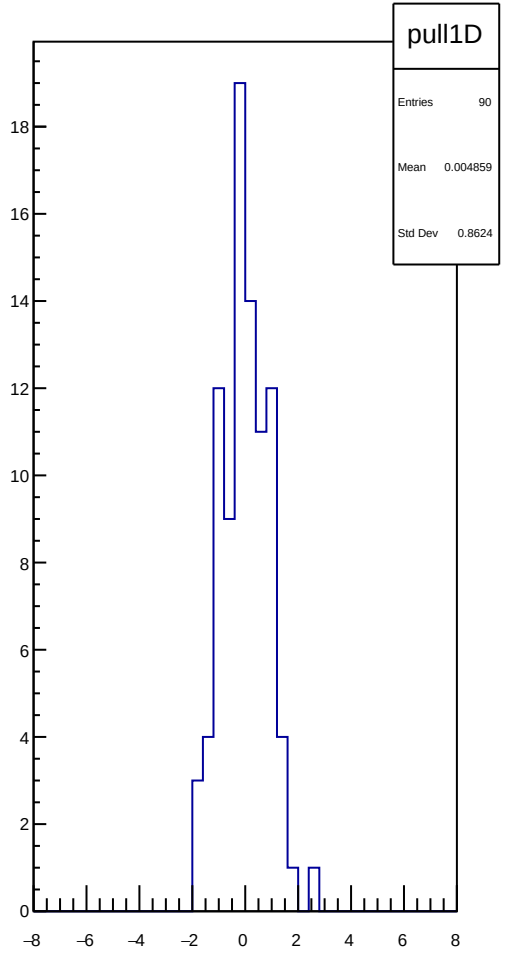

asym_sam6_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.1
0.08
0.06
0.04
0.02
χ² / ndf 6.364e+05 / 89
p0 9.955e−12 ± 9.301e−15

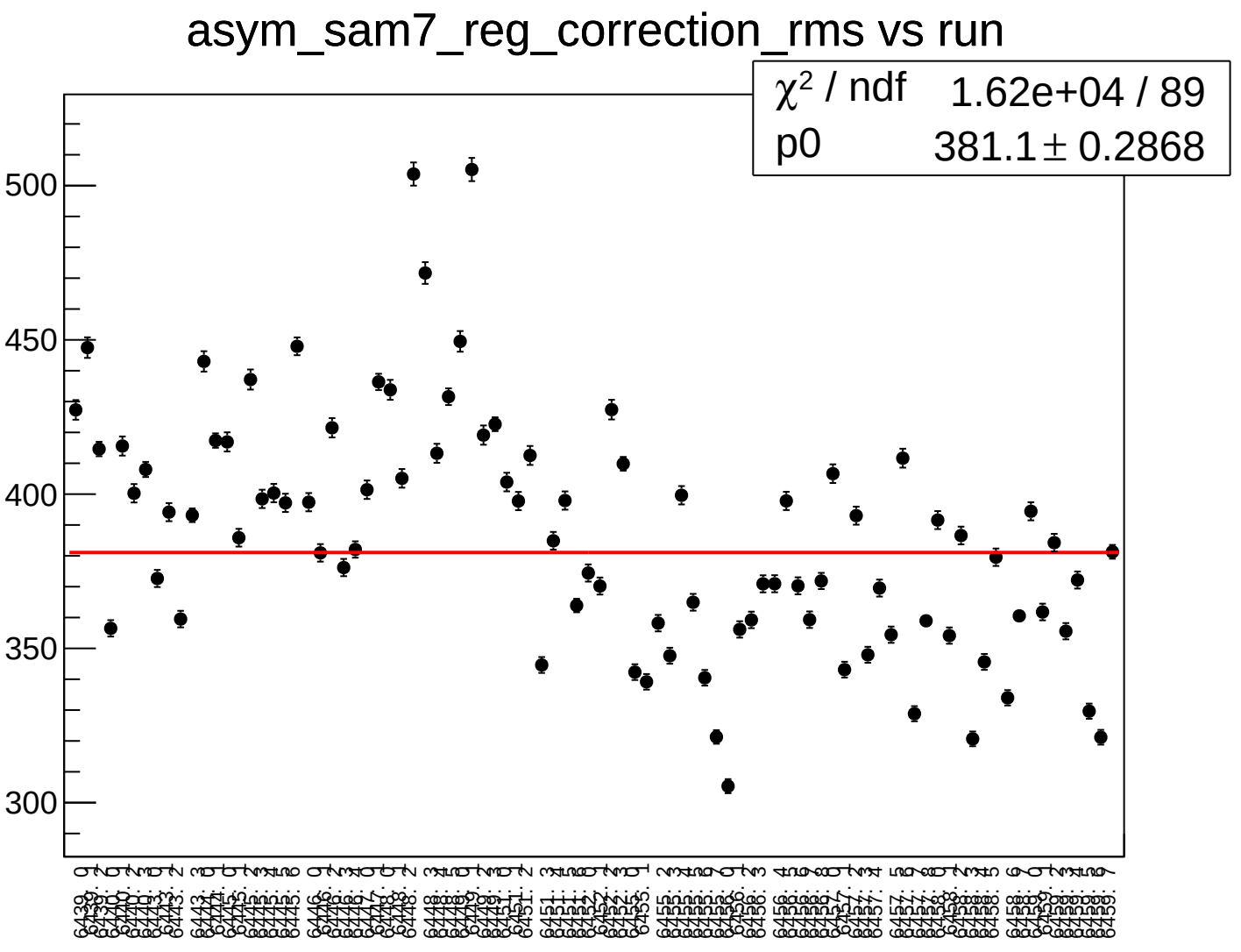

reg_asym_sam7_mean vs run
χ² / ndf 106.3 / 89
p0 −99.89 ± 71.15
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 90
Mean 577.6
Std Dev 0
3
2
1
0
−1
−2
−3

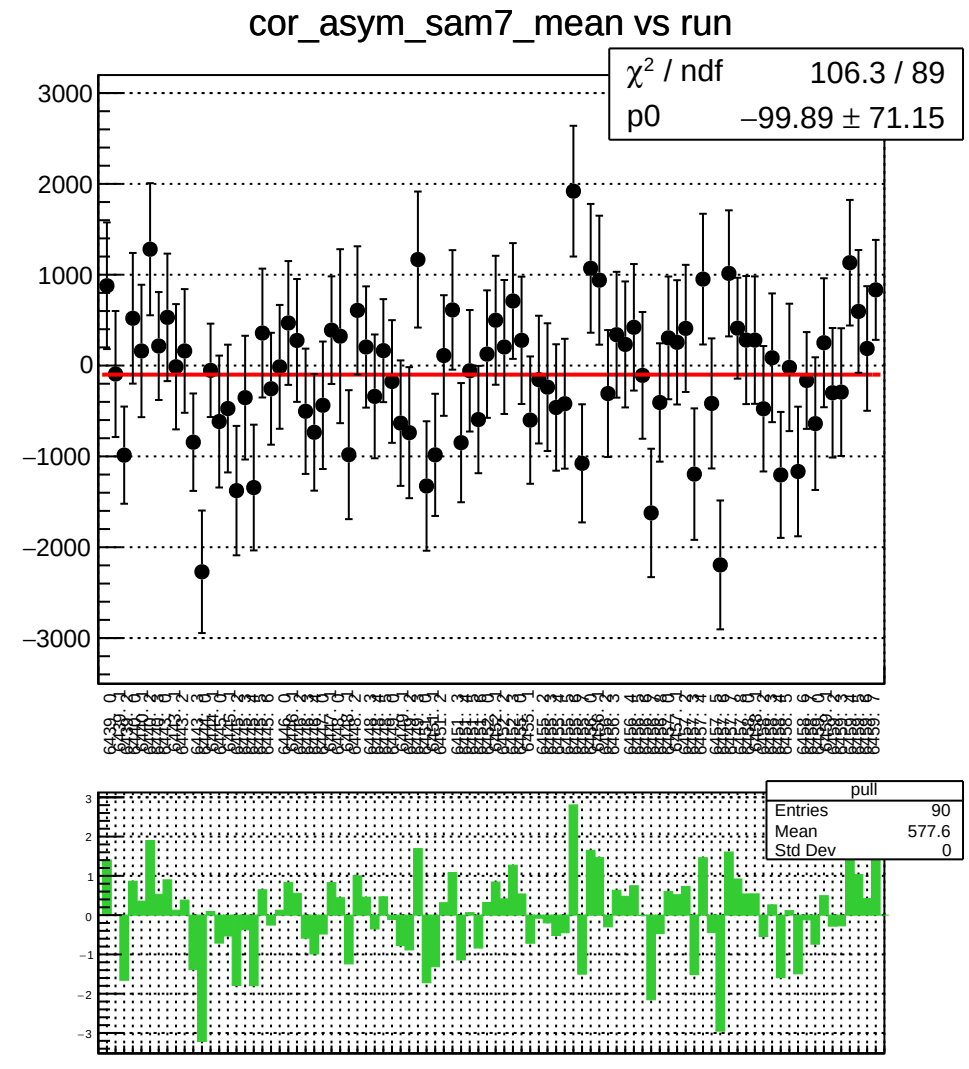

pull1D
Entries 90
Mean 0.005085
Std Dev 1.087
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

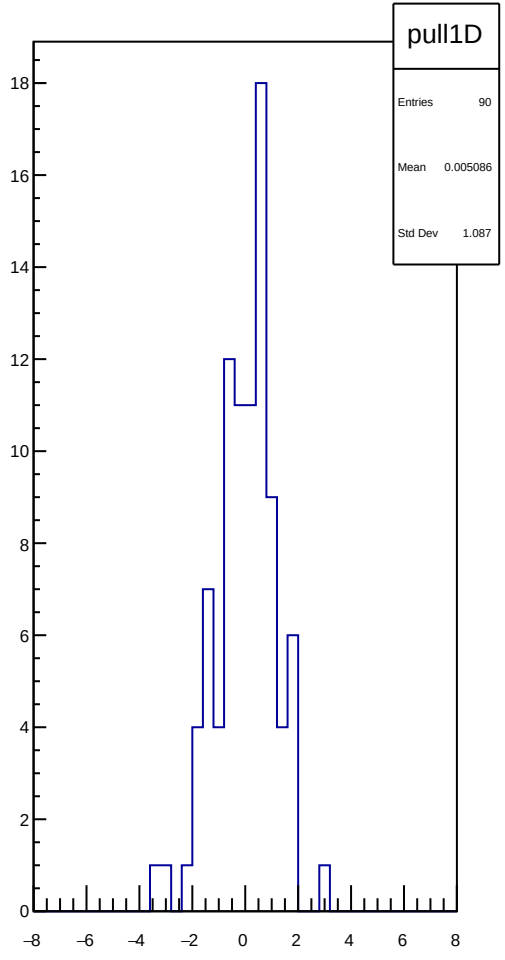

reg_asym_sam7_rms vs run
χ^2 / ndf 7598 / 89
p0 67.02 ± 0.05031
100
95
90
85
80
75
70
65
60

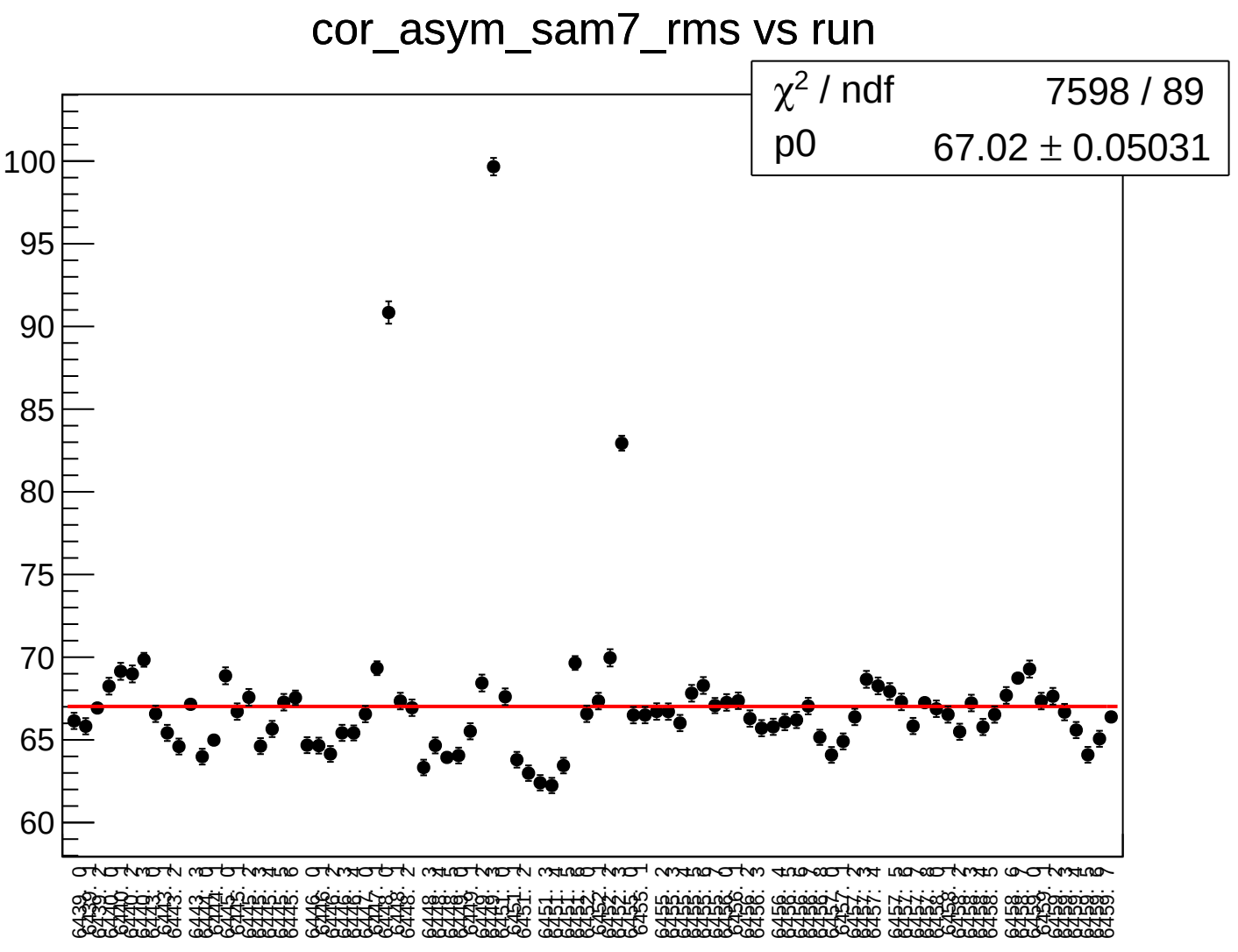

asym_sam7_reg_correction_mean vs run
χ² / ndf 66.94 / 89
p0 −1132 ± 405.6
10000
5000
0
−5000
−10000
pull
Entries 90
Mean 248.5
Std Dev 0
2
1
0
−1
−2

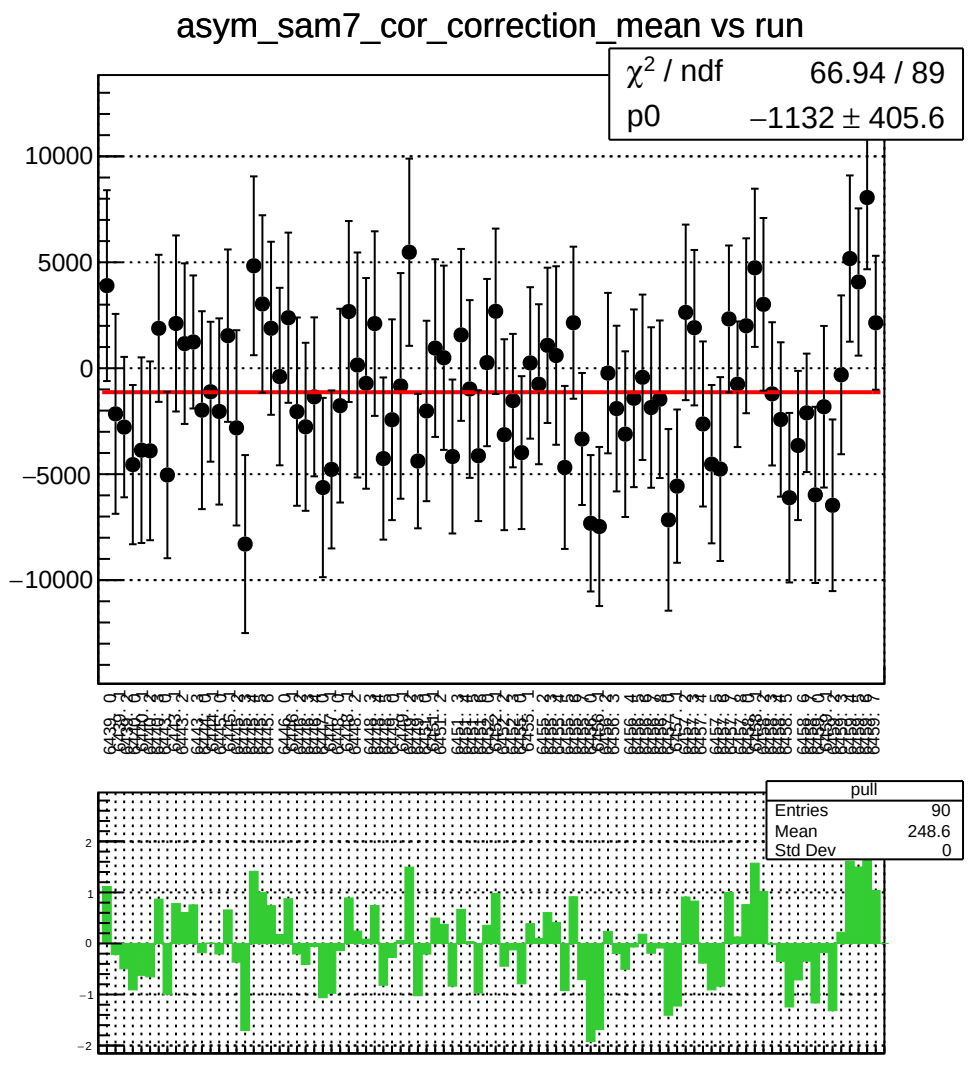

pull1D
Entries 90
Mean 0.004859
Std Dev 0.8624
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

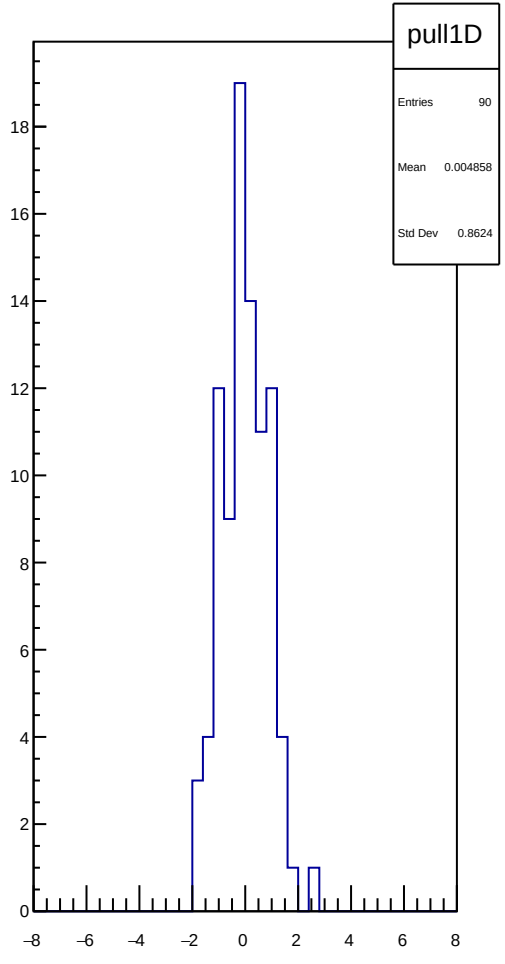

asym_sam7_reg_correction_rms vs run
χ² / ndf 1.62e+04 / 89
p0 381.1 ± 0.2868
500
450
400
350
300

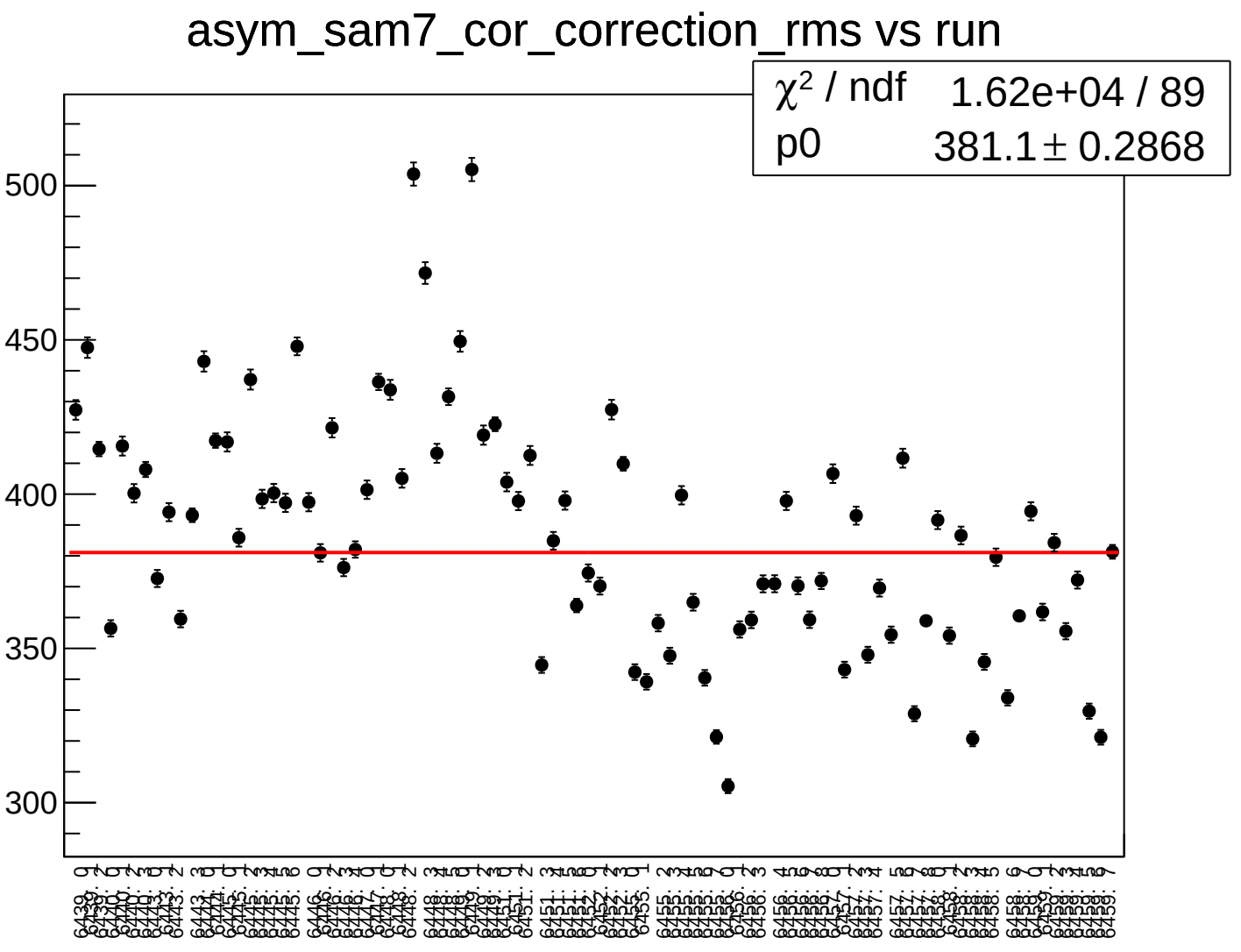

cor_asym_sam7_mean vs run
χ² / ndf 106.3 / 89
p0 −99.89 ± 71.15
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 90
Mean 577.6
Std Dev 0
3
2
1
0
−1
−2
−3

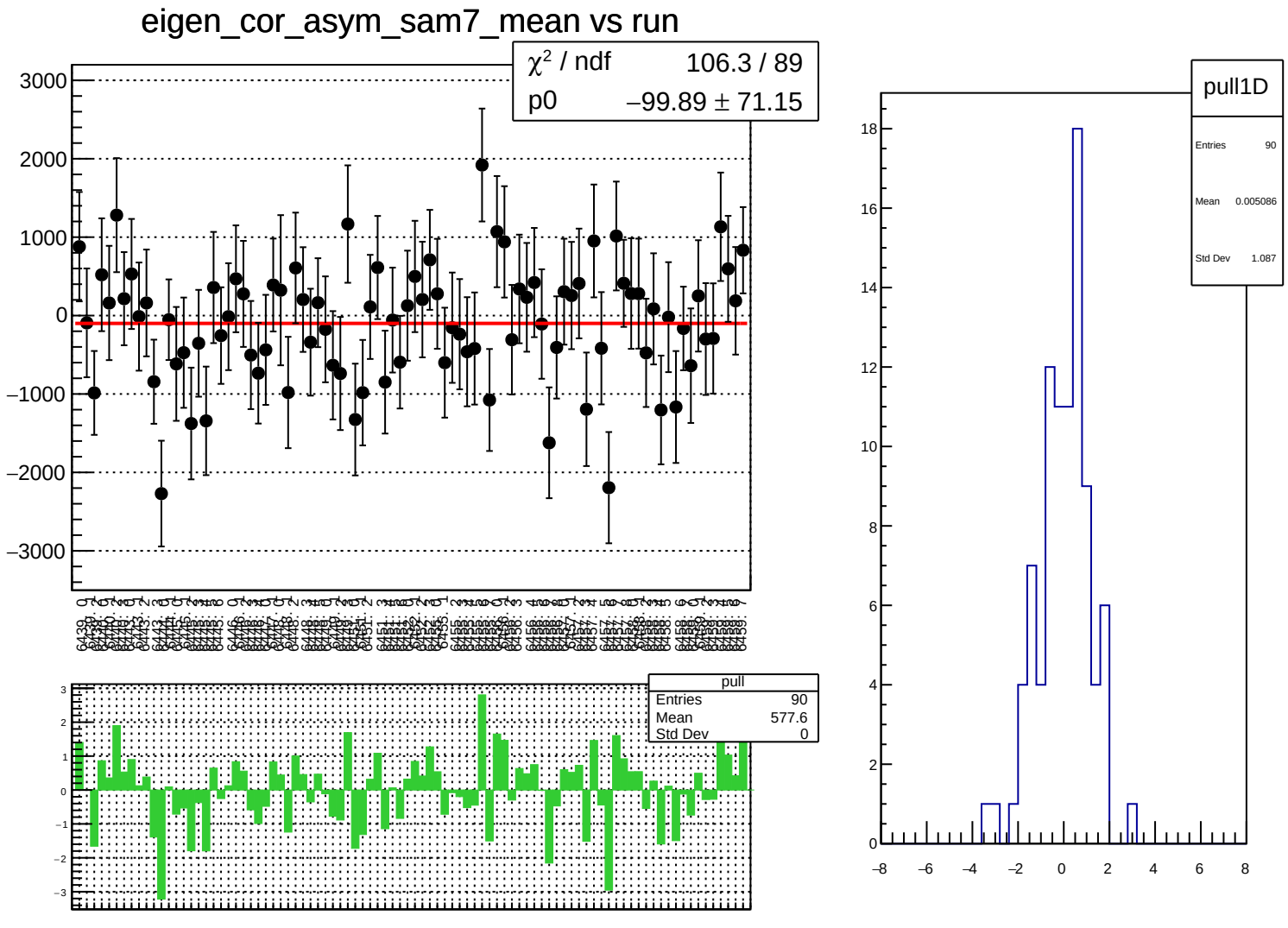

pull1D
Entries 90
Mean 0.005086
Std Dev 1.087
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

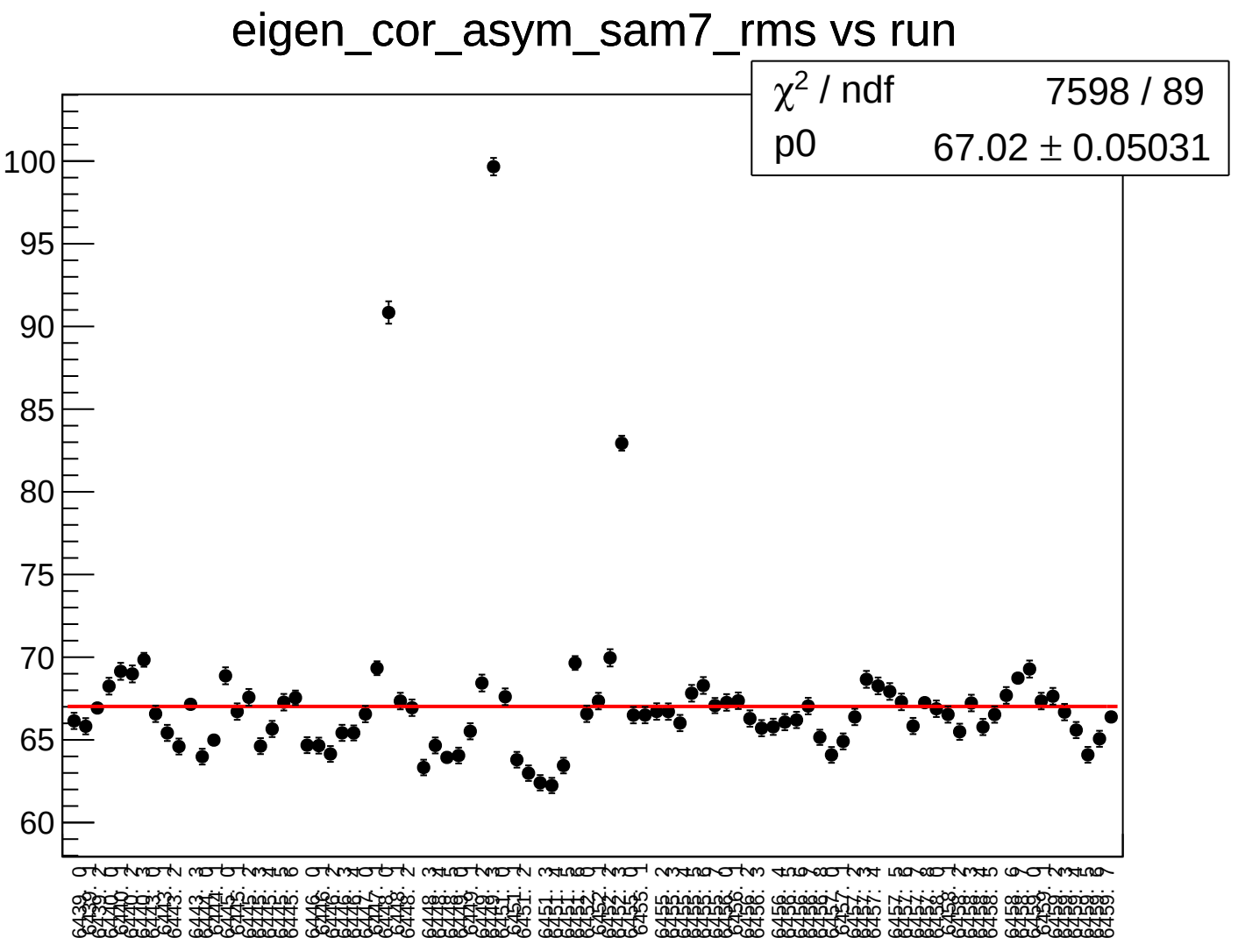

cor_asym_sam7_rms vs run
χ^2 / ndf 7598 / 89
p0 67.02 ± 0.05031
100
95
90
85
80
75
70
65
60

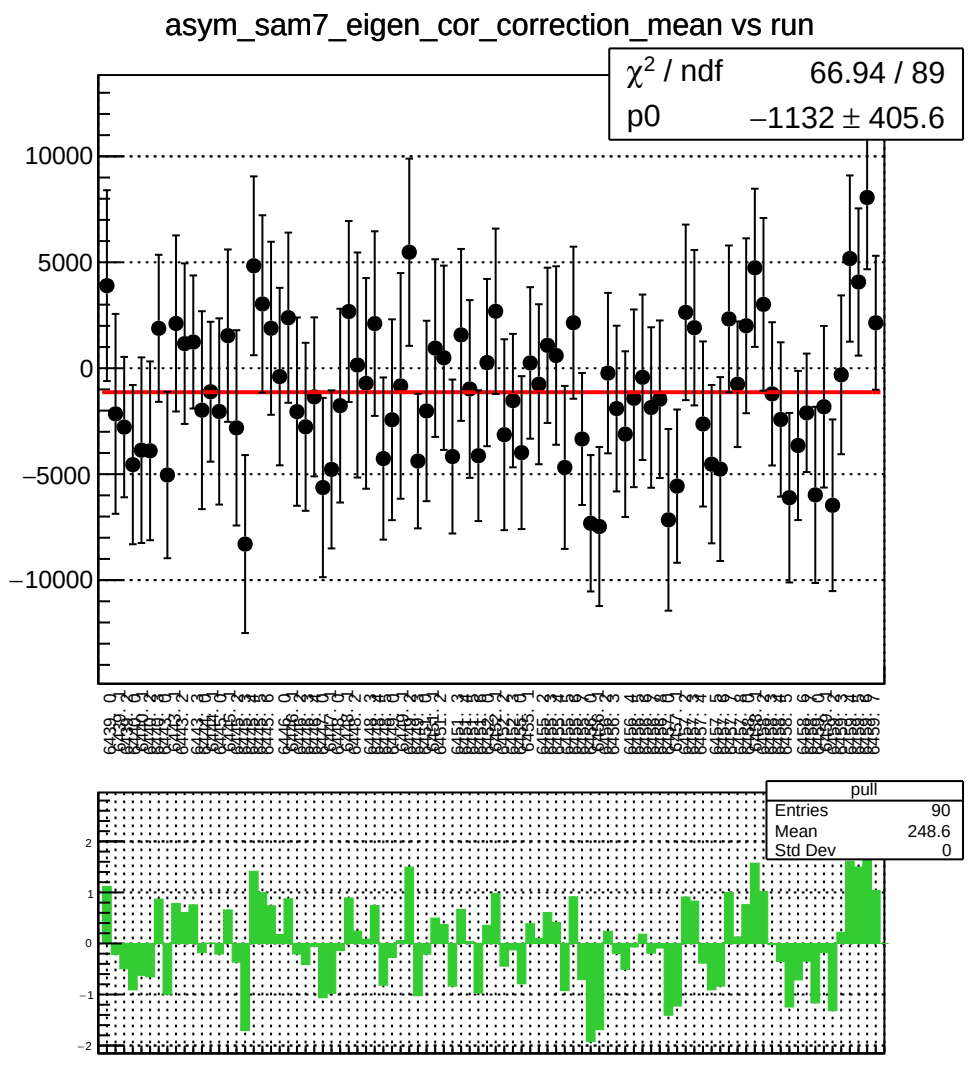

asym_sam7_cor_correction_mean vs run
χ² / ndf 66.94 / 89
p0 −1132 ± 405.6
10000
5000
0
−5000
−10000
pull
Entries 90
Mean 248.6
Std Dev 0
2
1
0
−1
−2

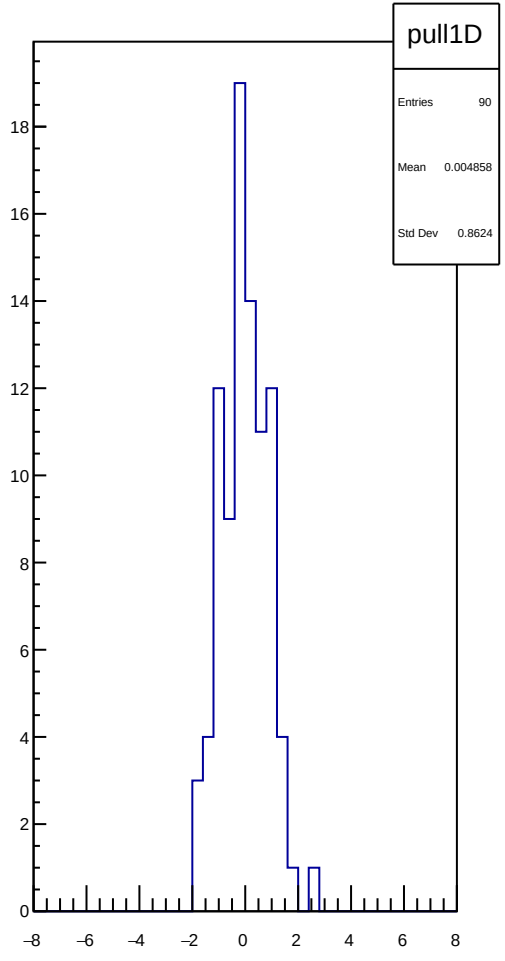

pull1D
Entries 90
Mean 0.004858
Std Dev 0.8624
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

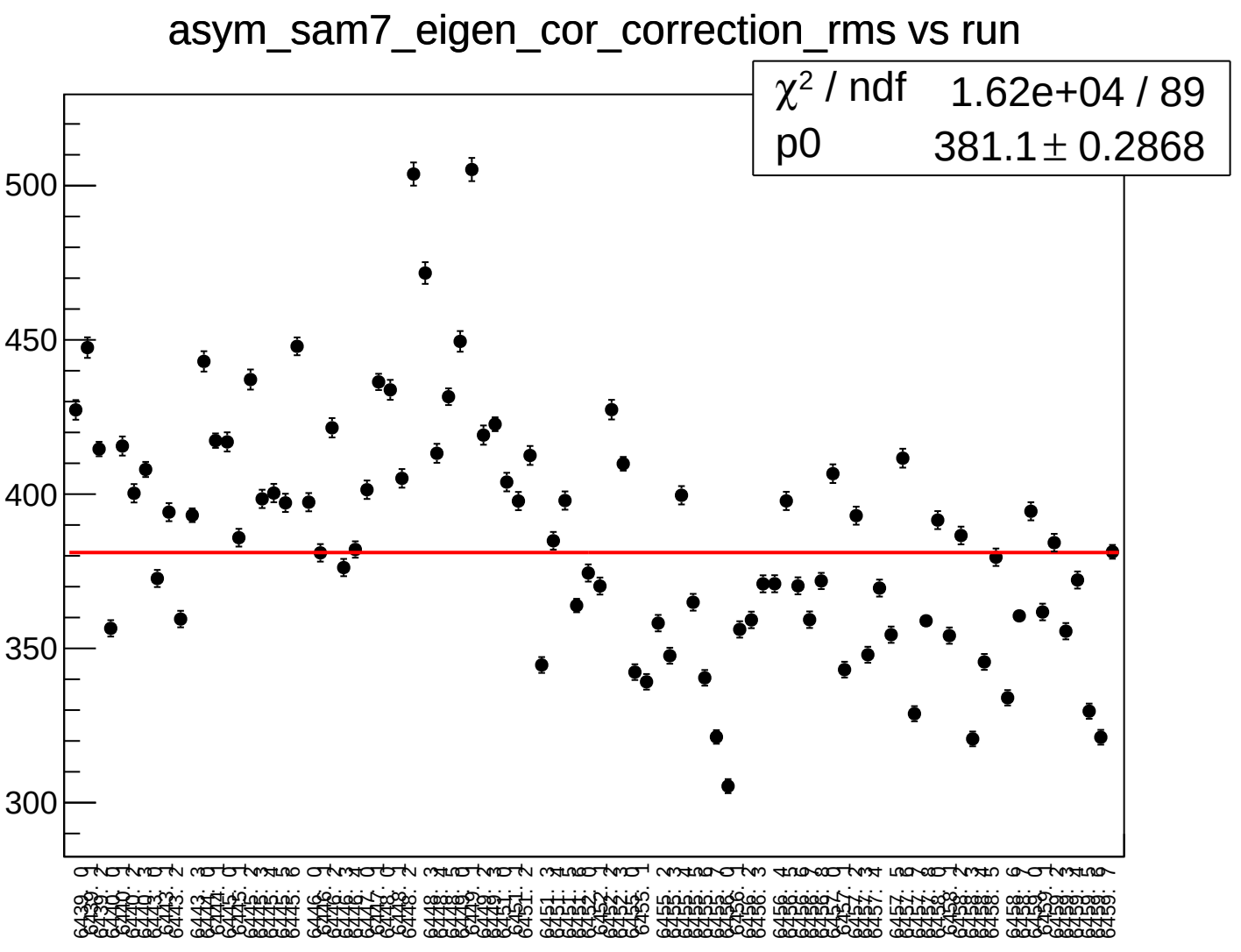

asym_sam7_cor_correction_rms vs run
χ² / ndf 1.62e+04 / 89
p0 381.1 ± 0.2868
500
450
400
350
300

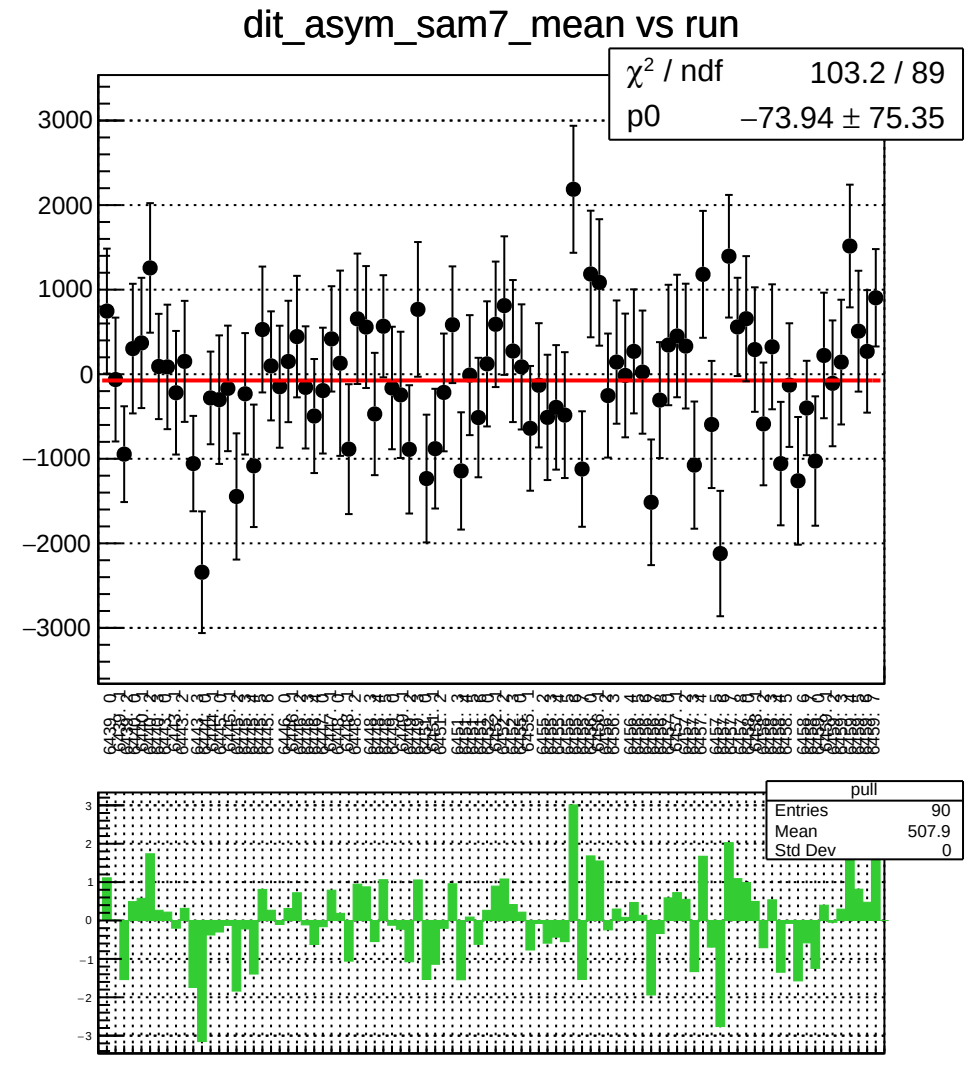

eigen_cor_asym_sam7_mean vs run
χ² / ndf 106.3 / 89
p0 −99.89 ± 71.15
pull
Entries 90
Mean 577.6
Std Dev 0
pull1D
Entries 90
Mean 0.005086
Std Dev 1.087

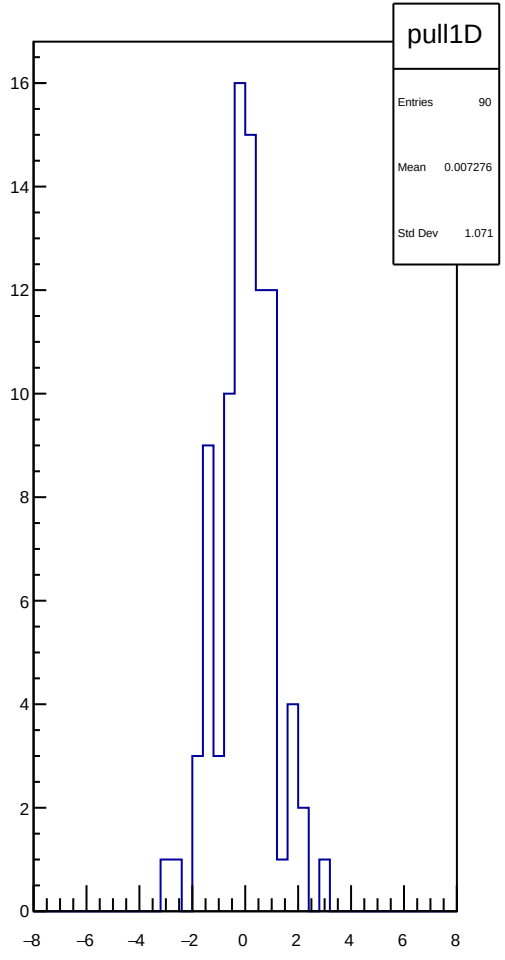

eigen_cor_asym_sam7_rms vs run
χ² / ndf 7598 / 89
p0 67.02 ± 0.05031
100
95
90
85
80
75
70
65
60

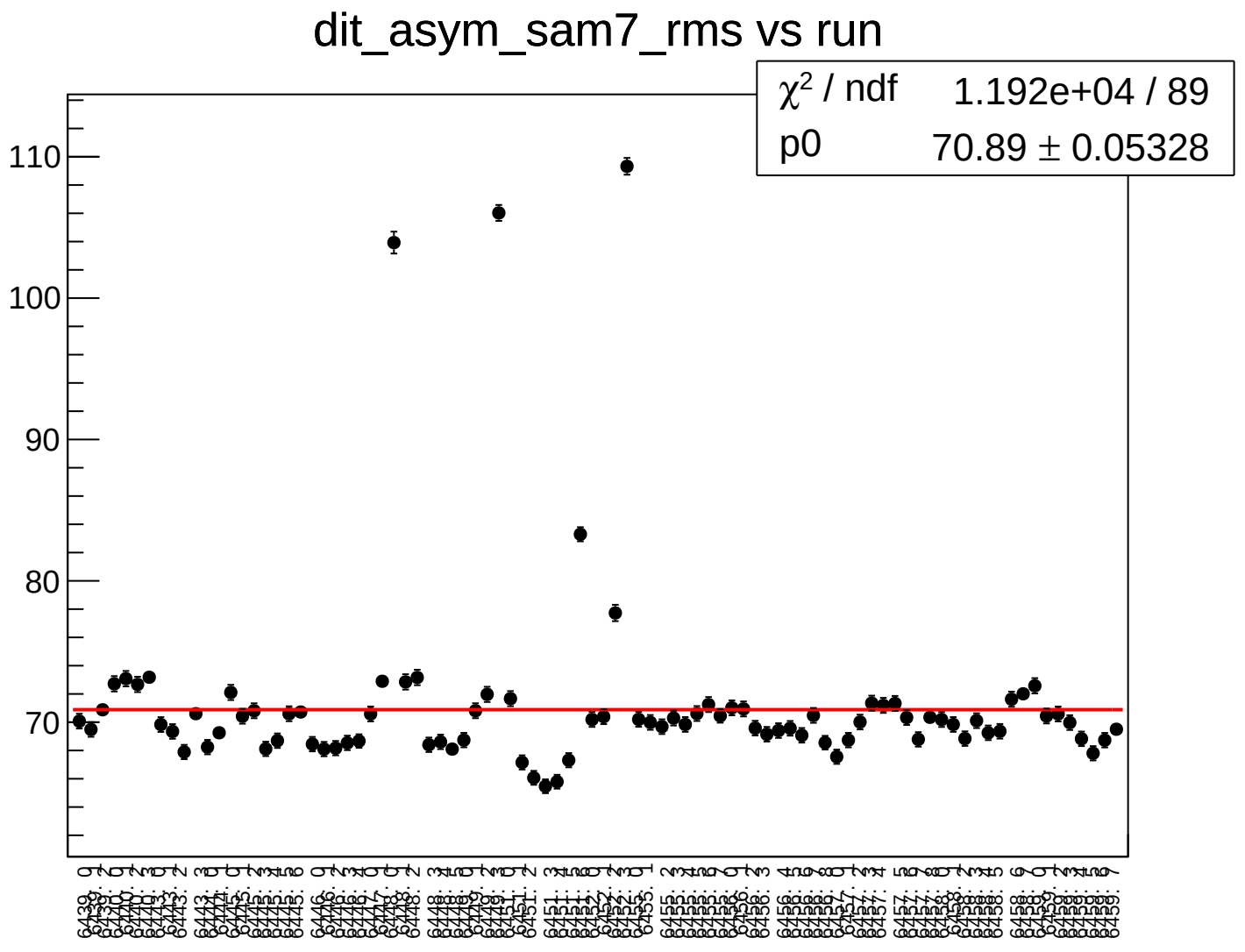

asym_sam7_eigen_cor_correction_mean vs run
χ² / ndf 66.94 / 89
p0 −1132 ± 405.6
10000
5000
0
−5000
−10000
pull
Entries 90
Mean 248.6
Std Dev 0
2
1
0
−1
−2

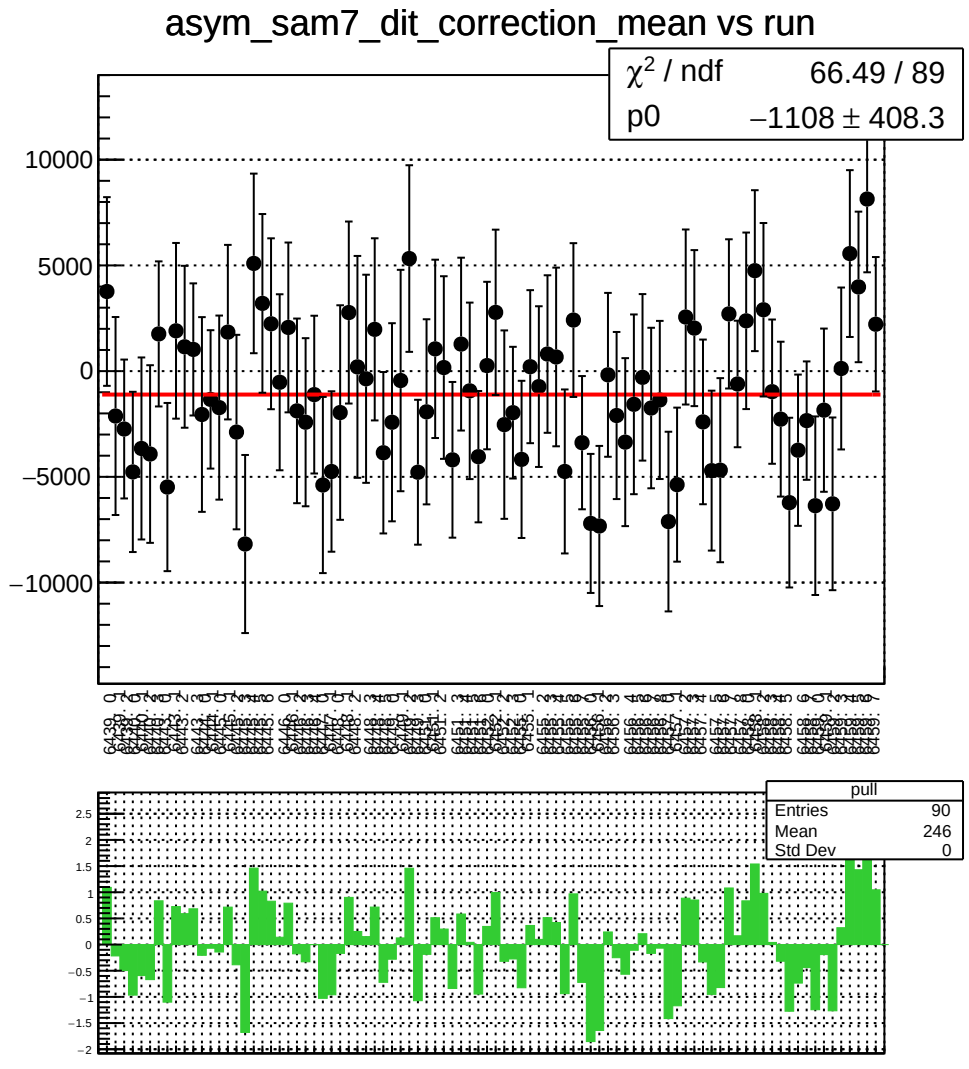

pull1D
Entries 90
Mean 0.004858
Std Dev 0.8624
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

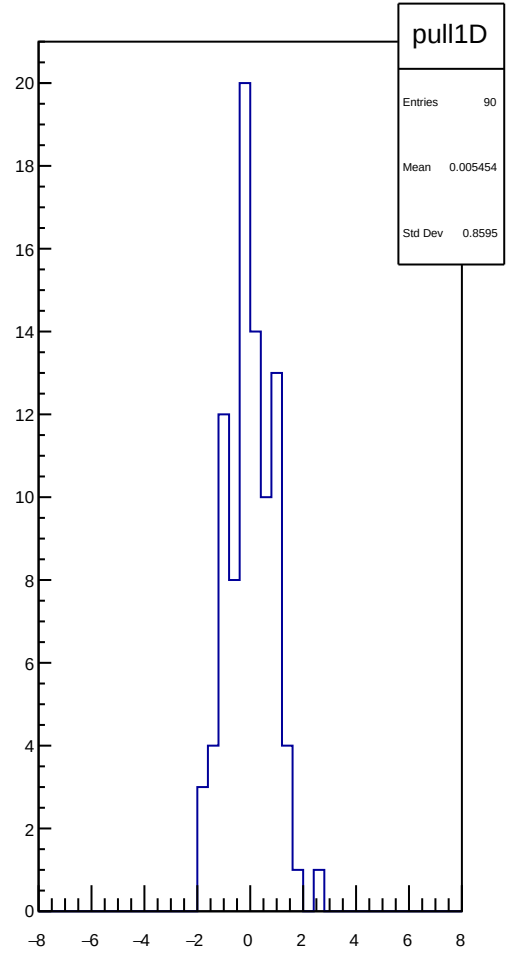

asym_sam7_eigen_cor_correction_rms vs run
χ² / ndf 1.62e+04 / 89
p0 381.1 ± 0.2868
500
450
400
350
300

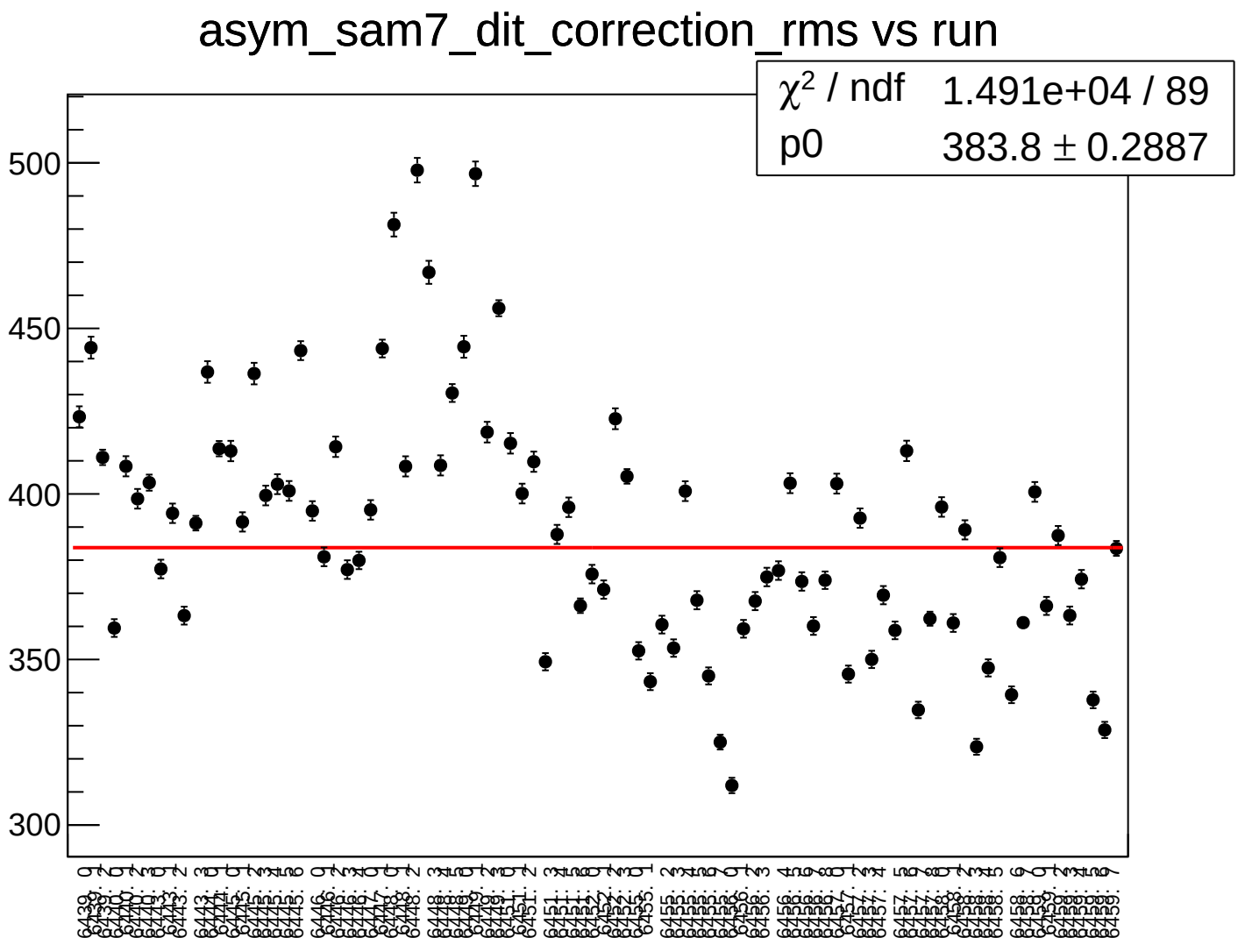

dit_asym_sam7_mean vs run
χ² / ndf 103.2 / 89
p0 −73.94 ± 75.35
pull
Entries 90
Mean 507.9
Std Dev 0

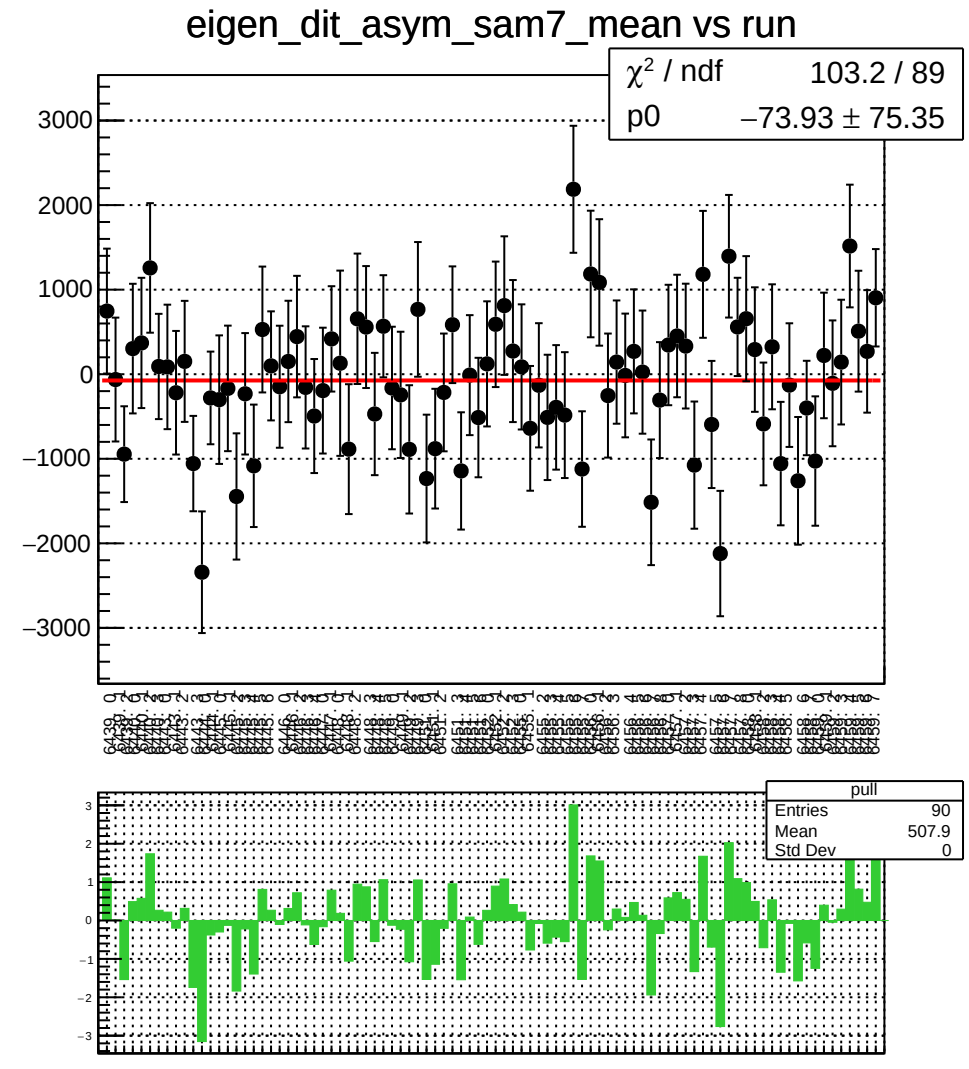

pull1D
Entries 90
Mean 0.007276
Std Dev 1.071

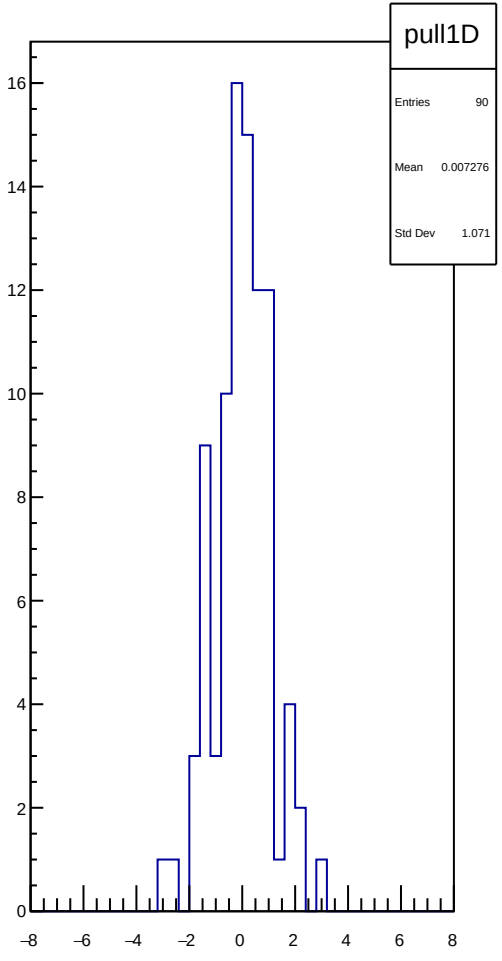

dit_asym_sam7_rms vs run
χ^2 / ndf 1.192e+04 / 89
p0 70.89 ± 0.05328
110
100
90
80
70

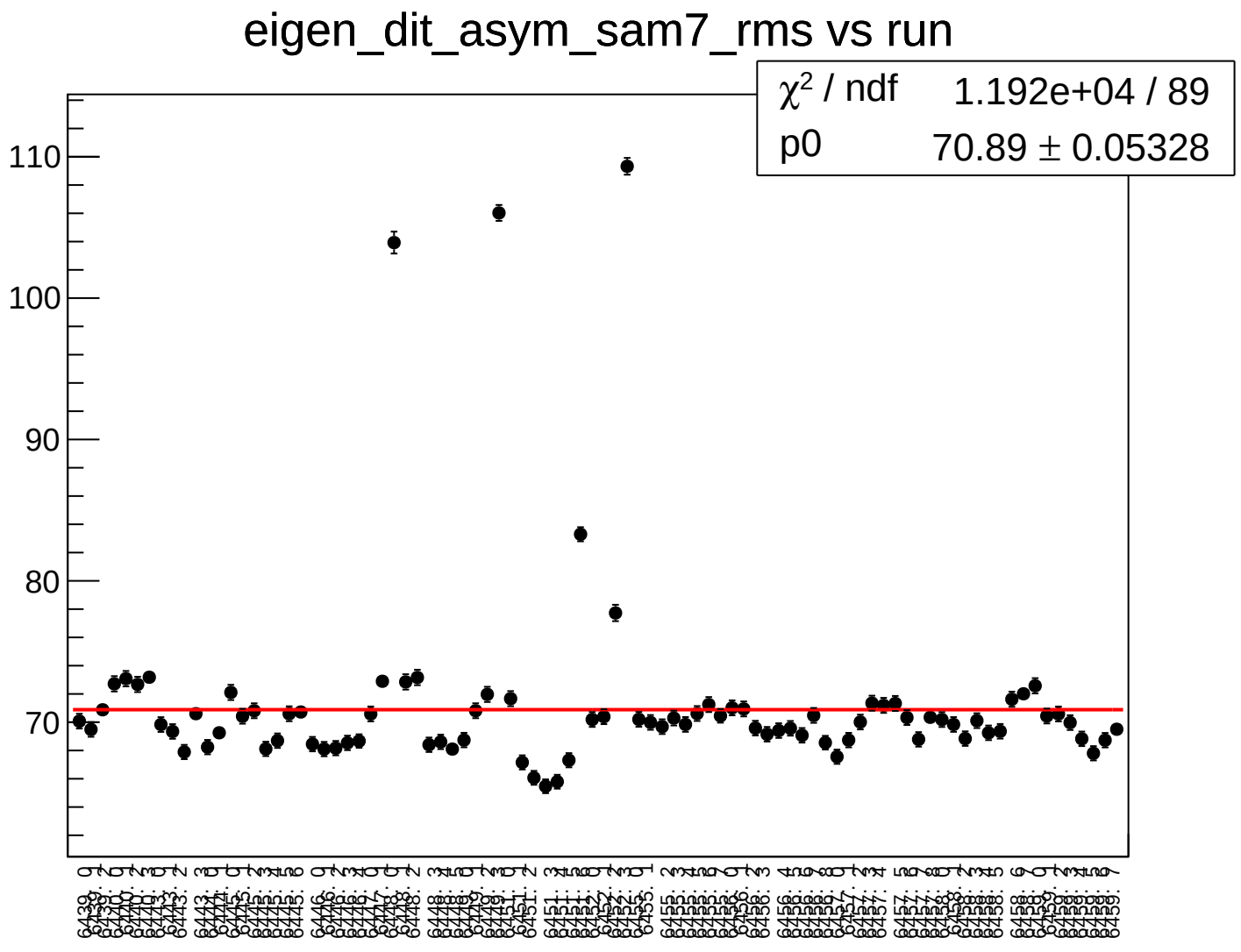

asym_sam7_dit_correction_mean vs run
χ² / ndf 66.49 / 89
p0 −1108 ± 408.3
10000
5000
0
−5000
−10000
pull
Entries 90
Mean 246
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

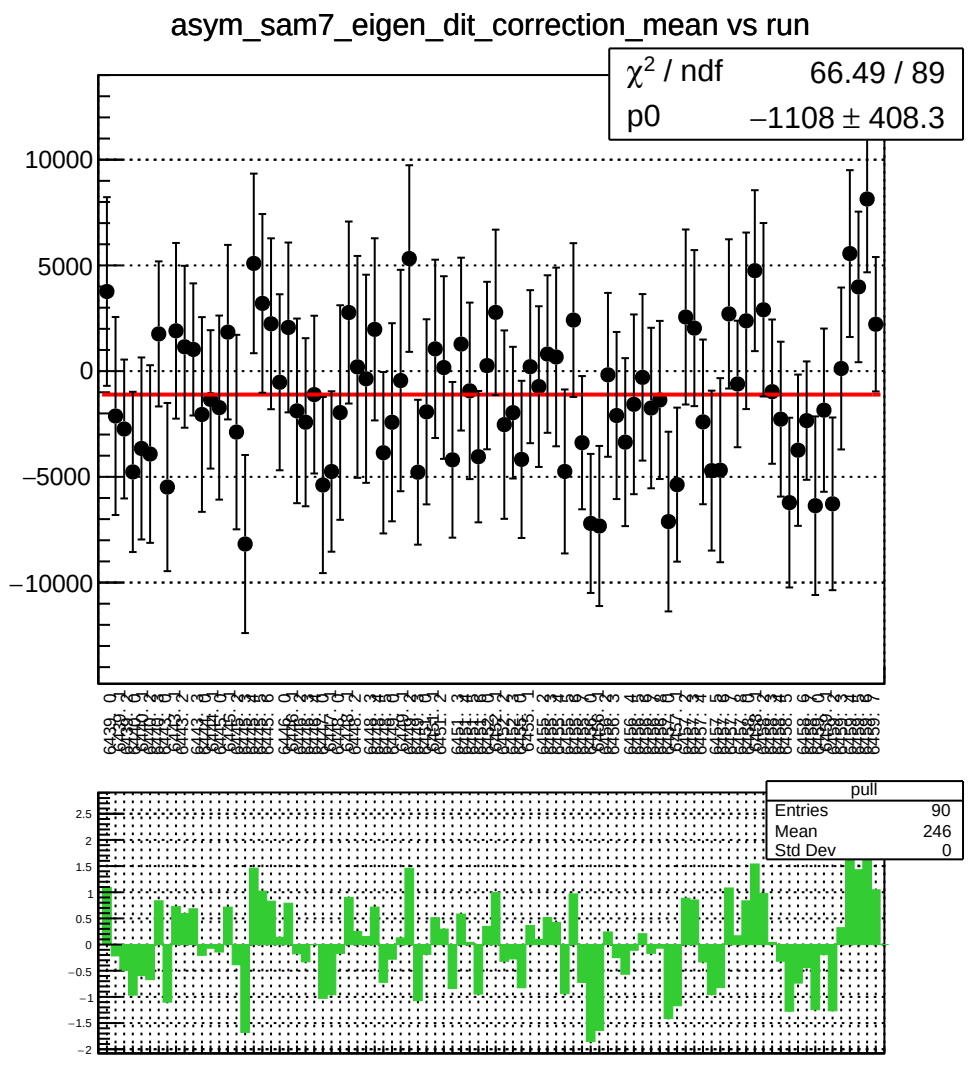

pull1D
Entries 90
Mean 0.005454
Std Dev 0.8595
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

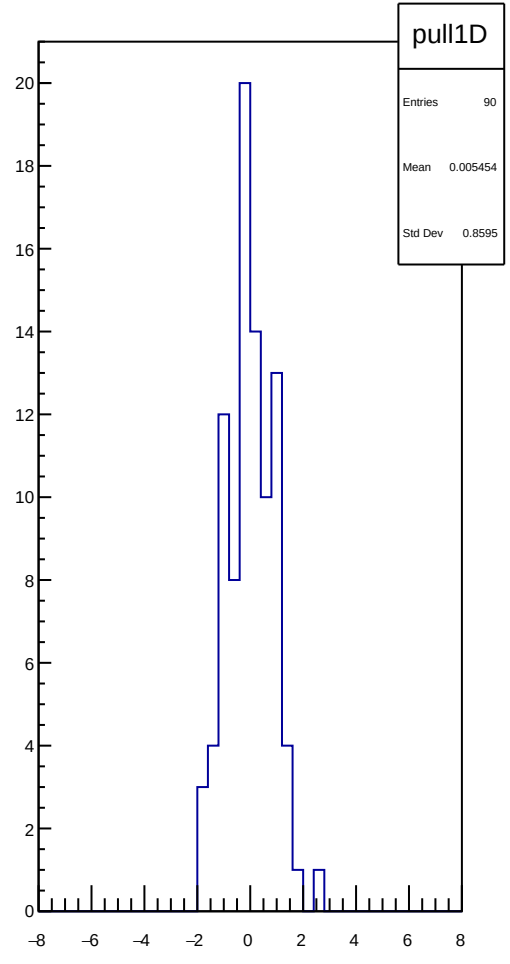

asym_sam7_dit_correction_rms vs run
χ² / ndf 1.491e+04 / 89
p0 383.8 ± 0.2887
500
450
400
350
300

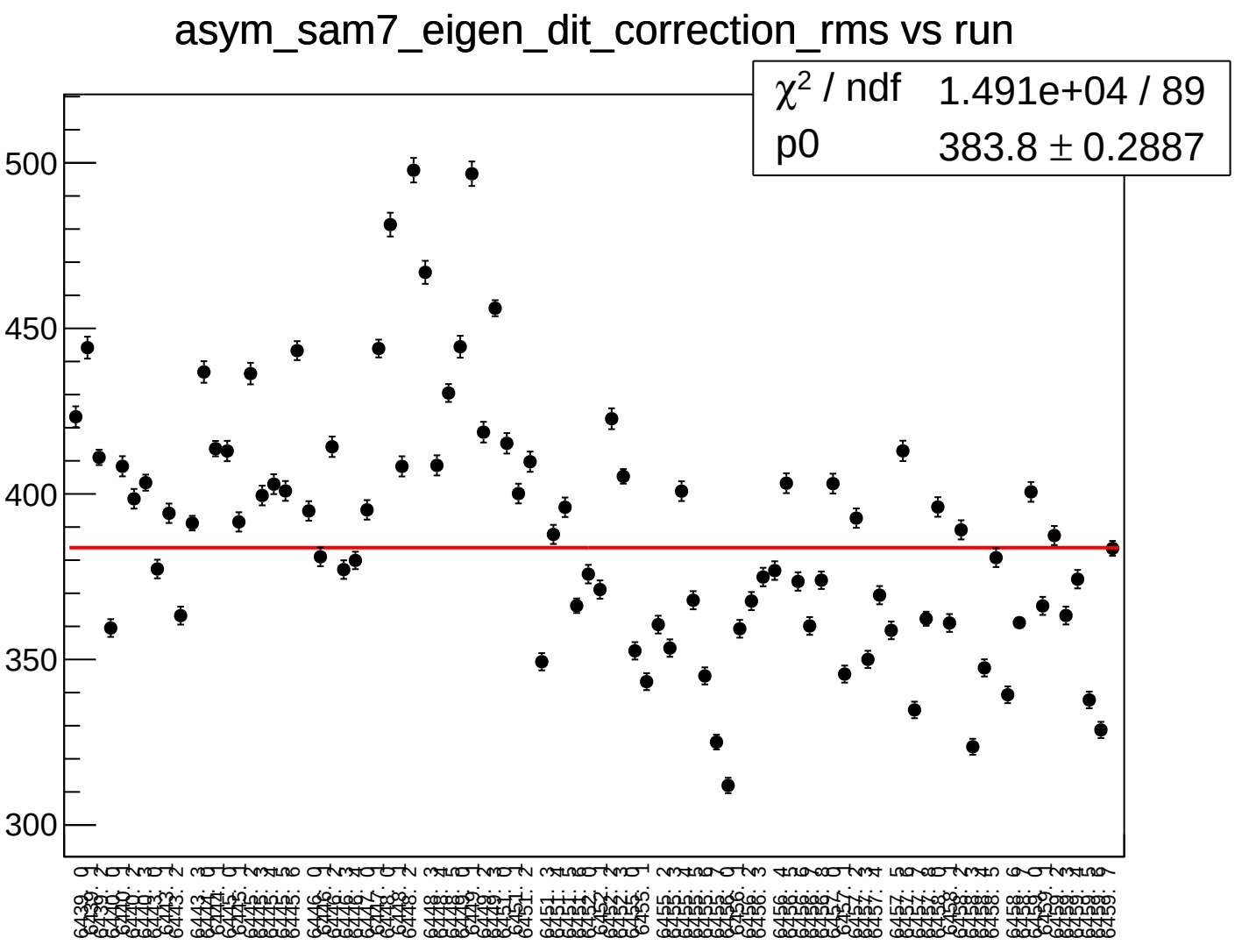

eigen_dit_asym_sam7_mean vs run
χ² / ndf 103.2 / 89
p0 −73.93 ± 75.35
pull
Entries 90
Mean 507.9
Std Dev 0

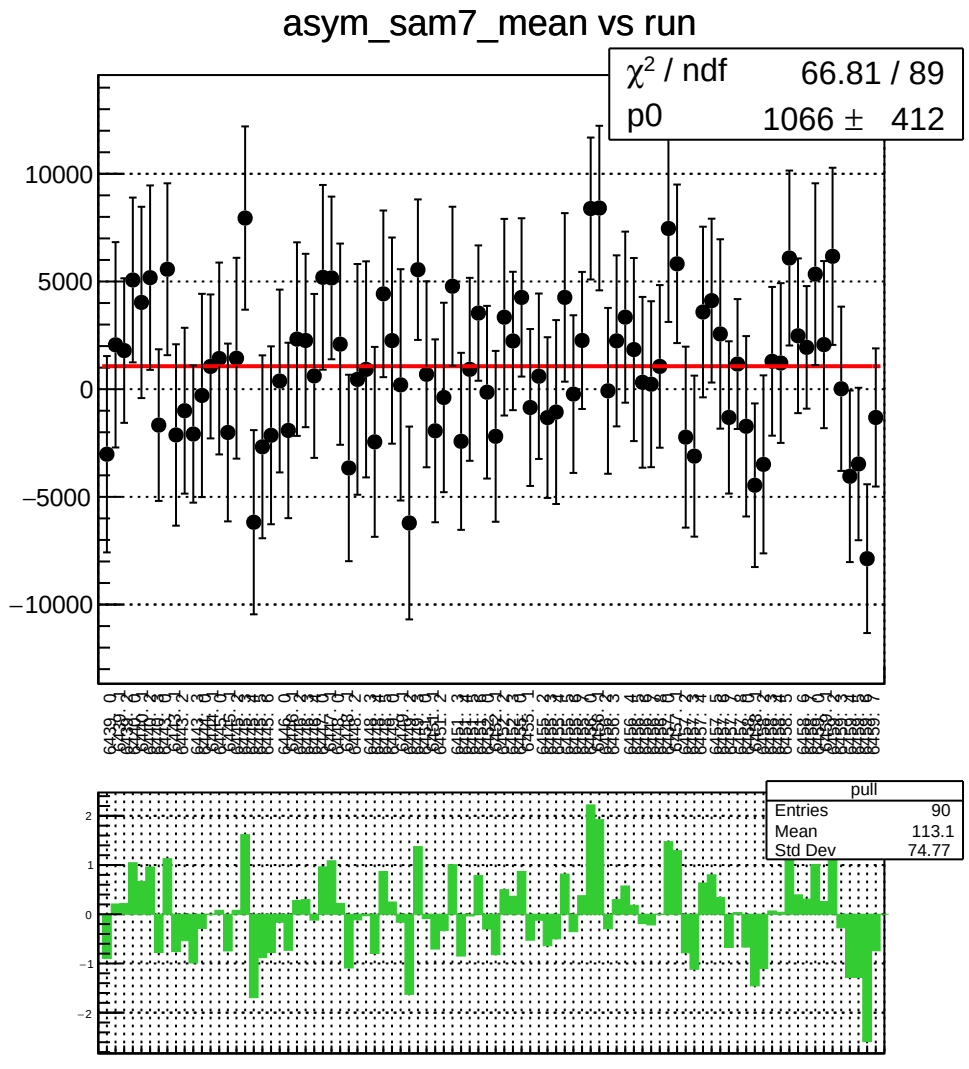

pull1D
Entries 90
Mean 0.007276
Std Dev 1.071

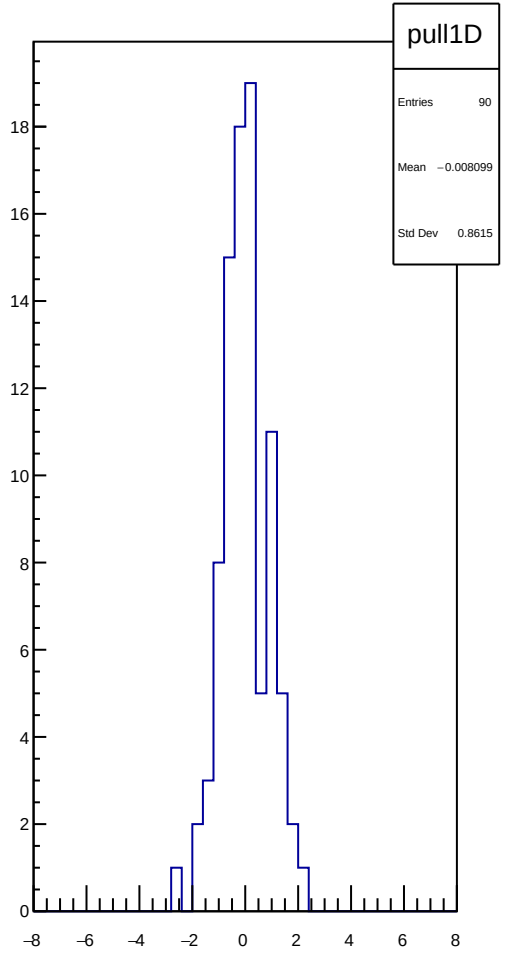

eigen_dit_asym_sam7_rms vs run
χ^2 / ndf 1.192e+04 / 89
p0 70.89 ± 0.05328
110
100
90
80
70

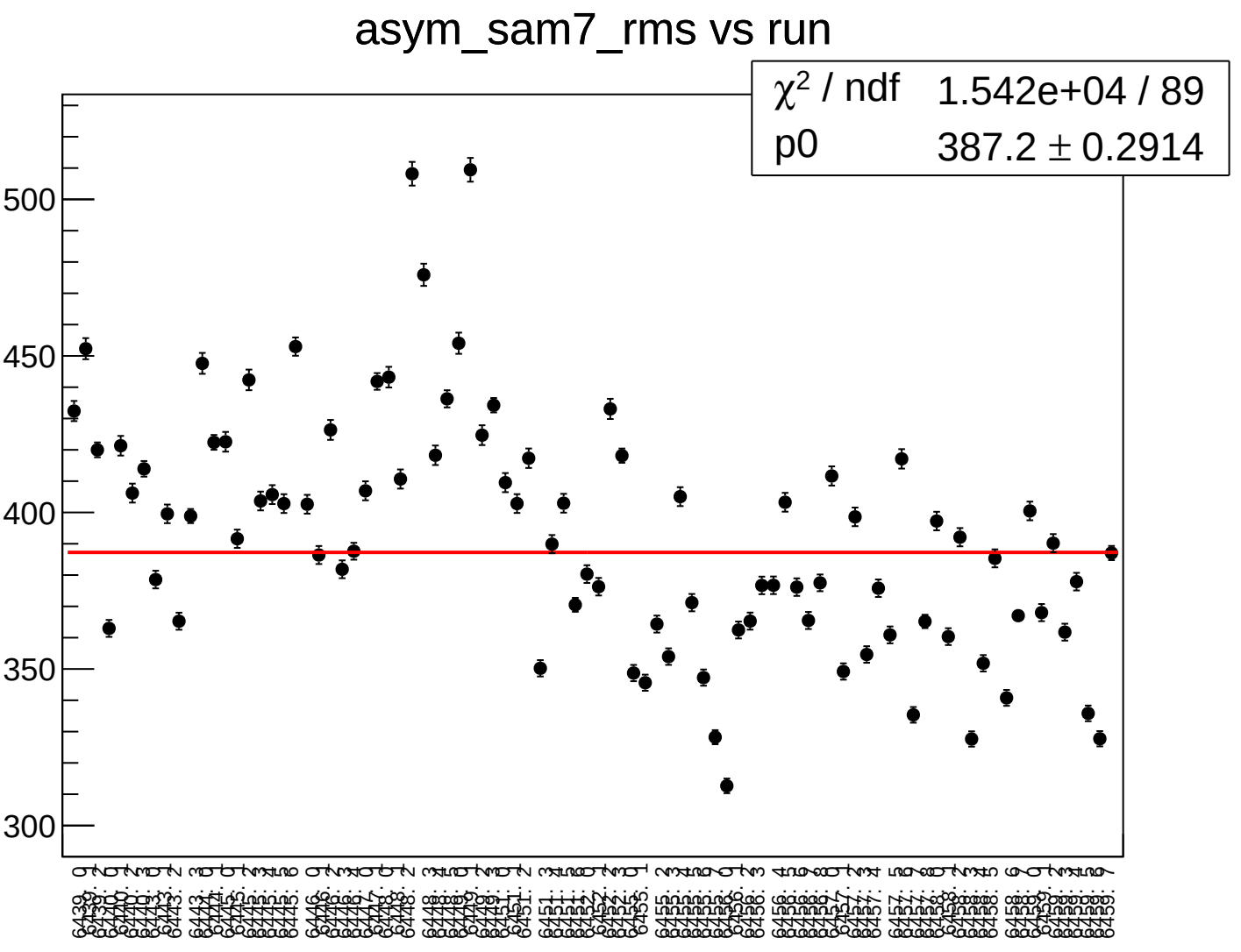

asym_sam7_eigen_dit_correction_mean vs run
χ² / ndf 66.49 / 89
p0 −1108 ± 408.3
10000
5000
0
−5000
−10000
pull
Entries 90
Mean 246
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

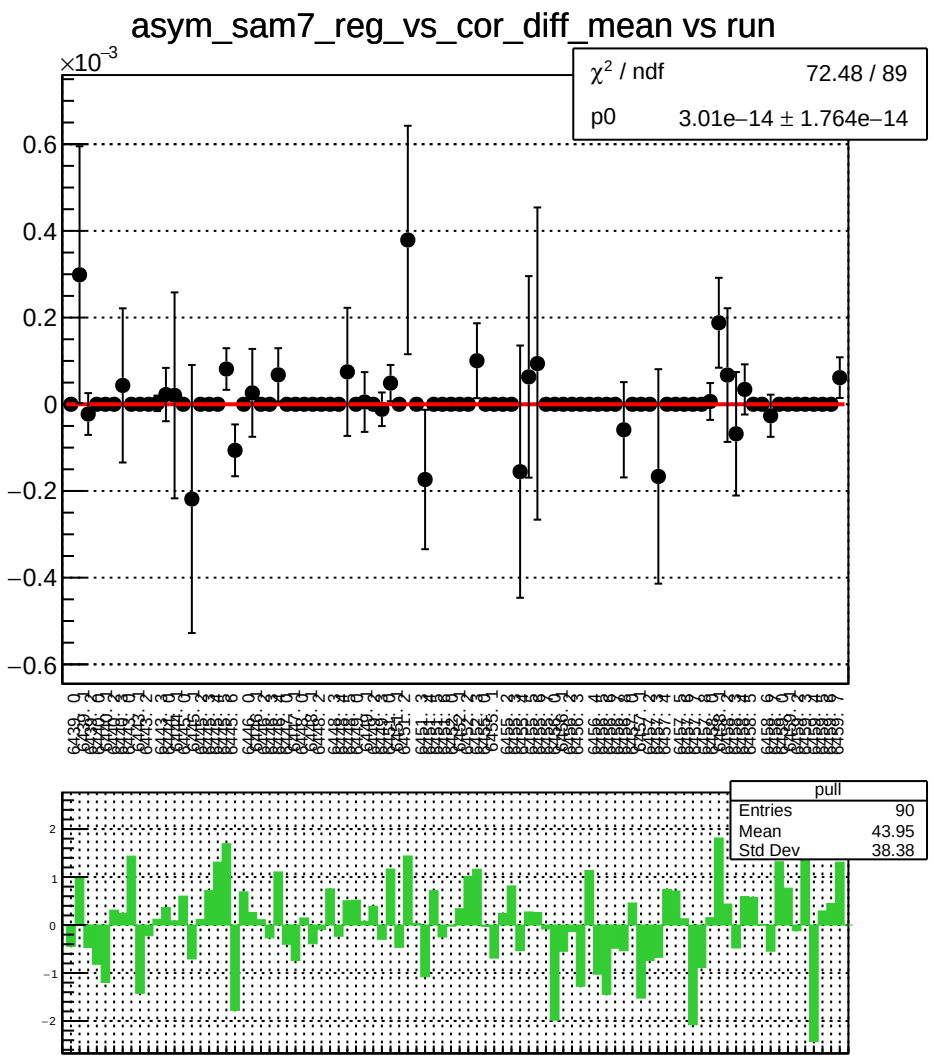

pull1D
Entries 90
Mean 0.005454
Std Dev 0.8595
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

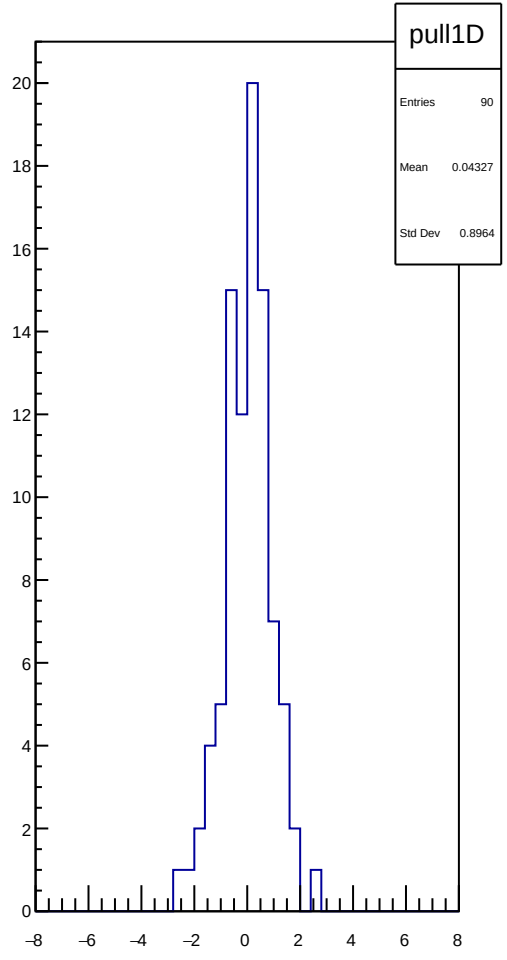

asym_sam7_eigen_dit_correction_rms vs run
χ² / ndf 1.491e+04 / 89
p0 383.8 ± 0.2887
500
450
400
350
300

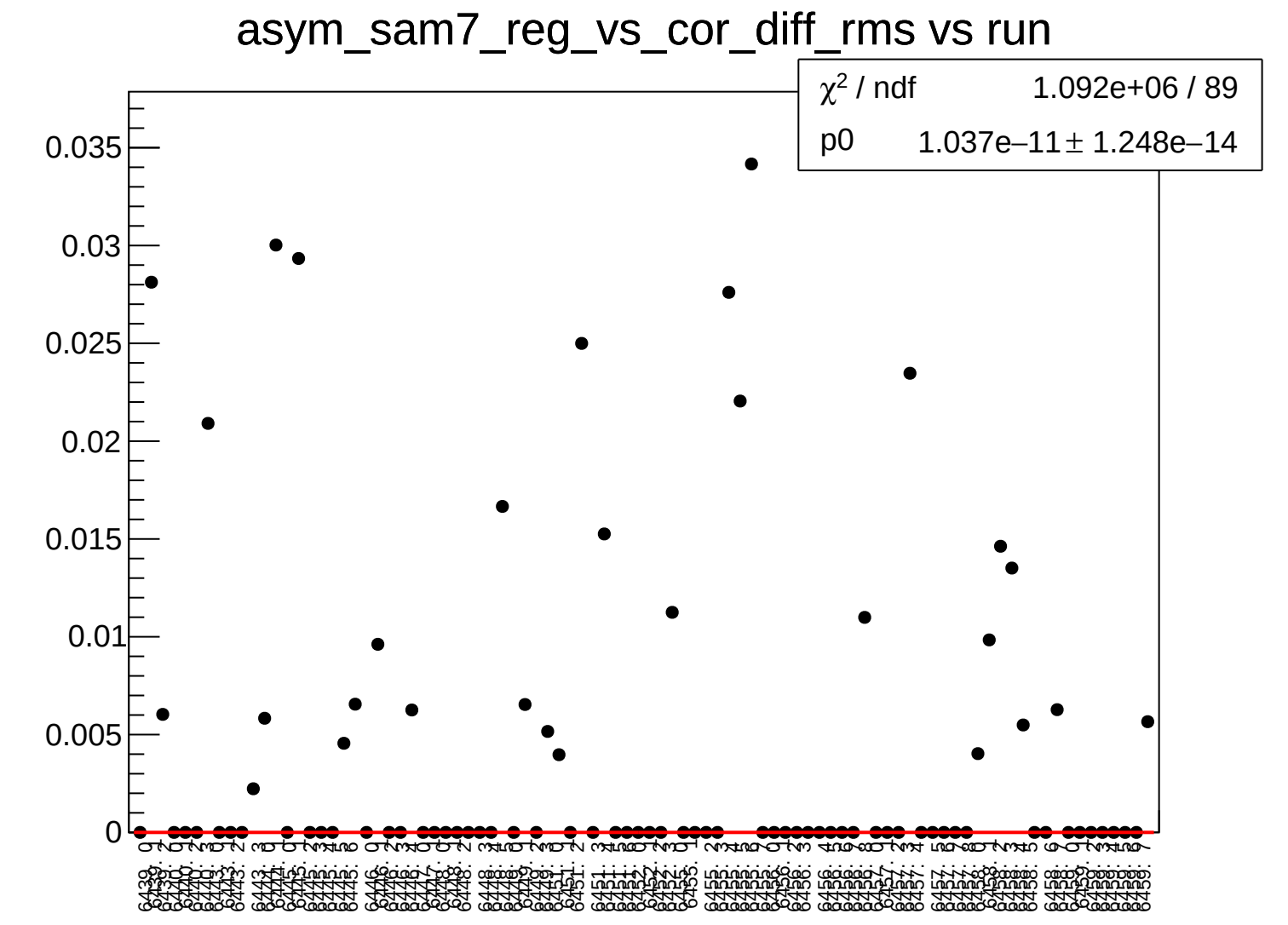

asym_sam7_mean vs run
χ² / ndf 66.81 / 89
p0 1066 ± 412
10000
5000
0
−5000
−10000
pull
Entries 90
Mean 113.1
Std Dev 74.77
2
1
0
−1
−2

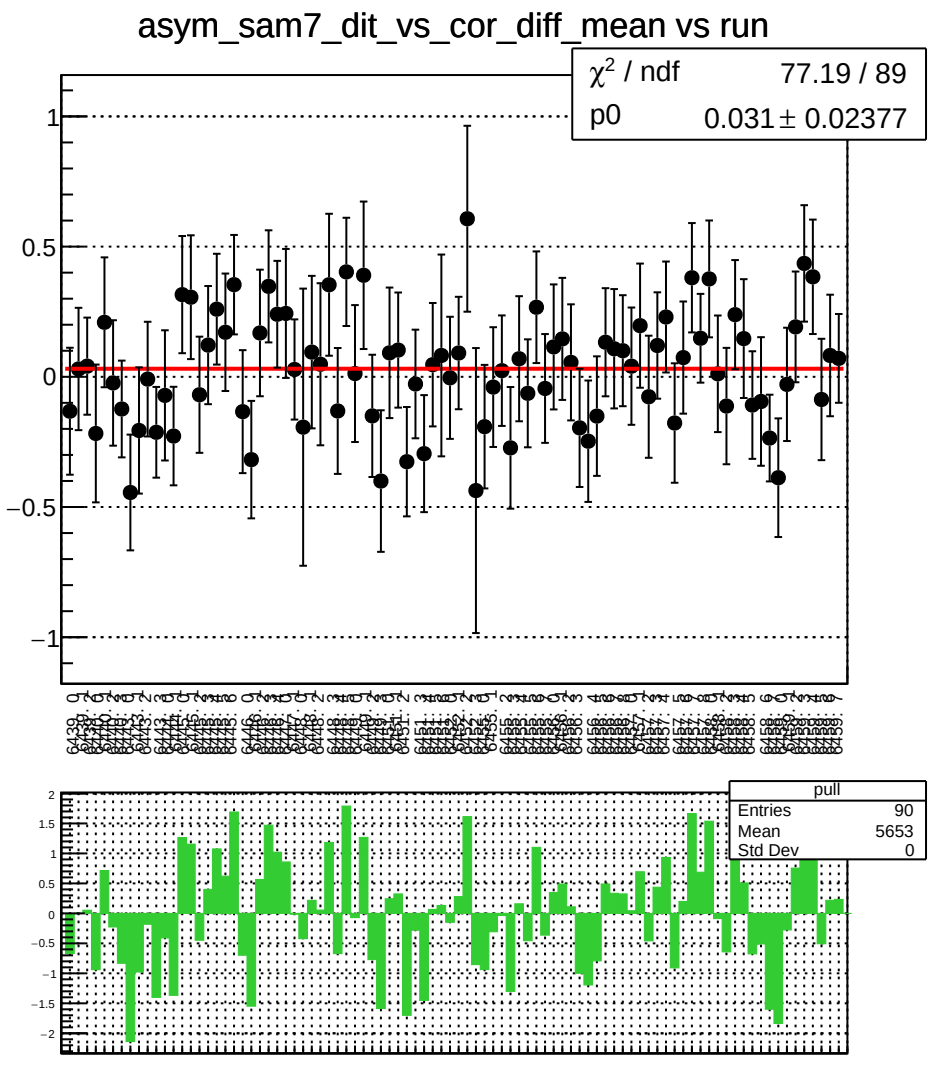

pull1D
Entries 90
Mean −0.008099
Std Dev 0.8615
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

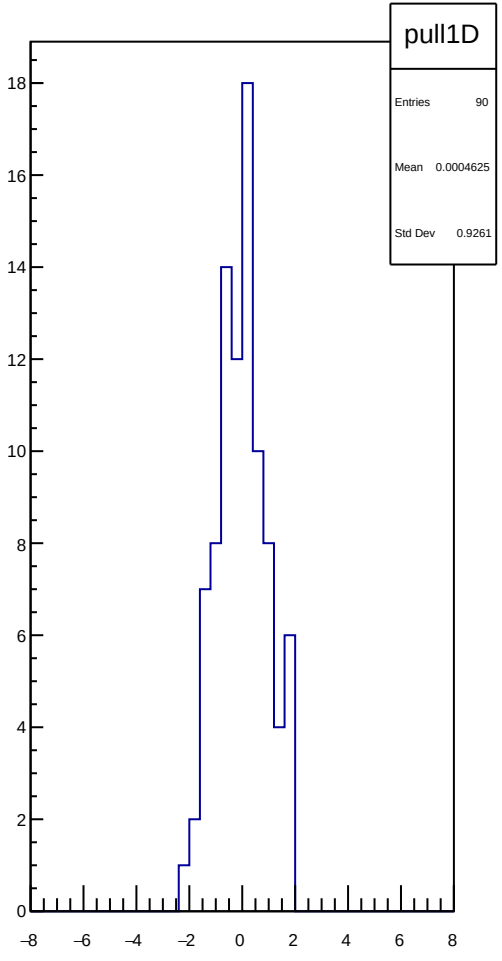

asym_sam7_rms vs run
χ^2 / ndf 1.542e+04 / 89
p0 387.2 ± 0.2914
500
450
400
350
300

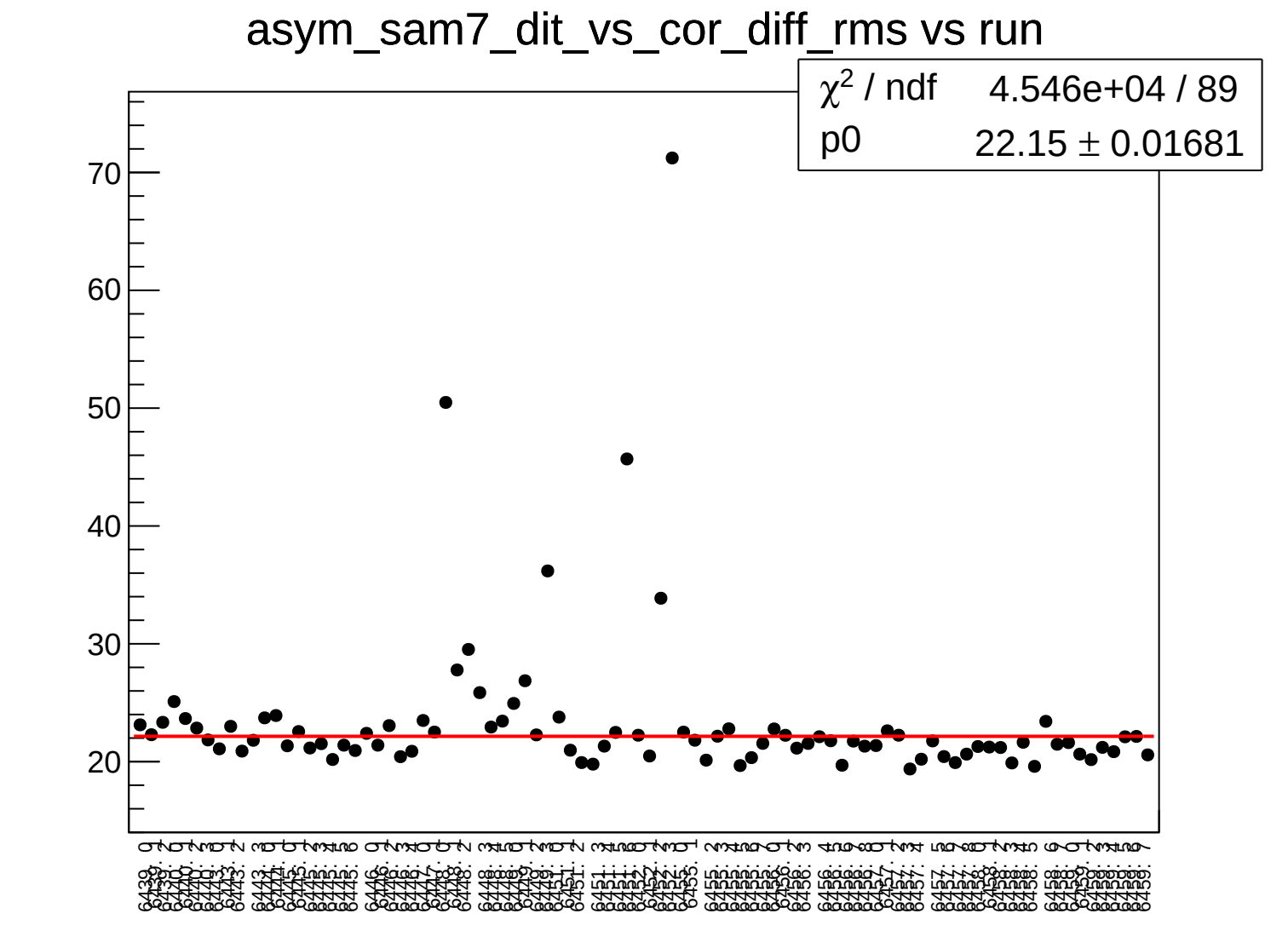

asym_sam7_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 72.48 / 89
p0 3.01e−14 ± 1.764e−14
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 90
Mean 43.95
Std Dev 38.38
2
1
0
−1
−2

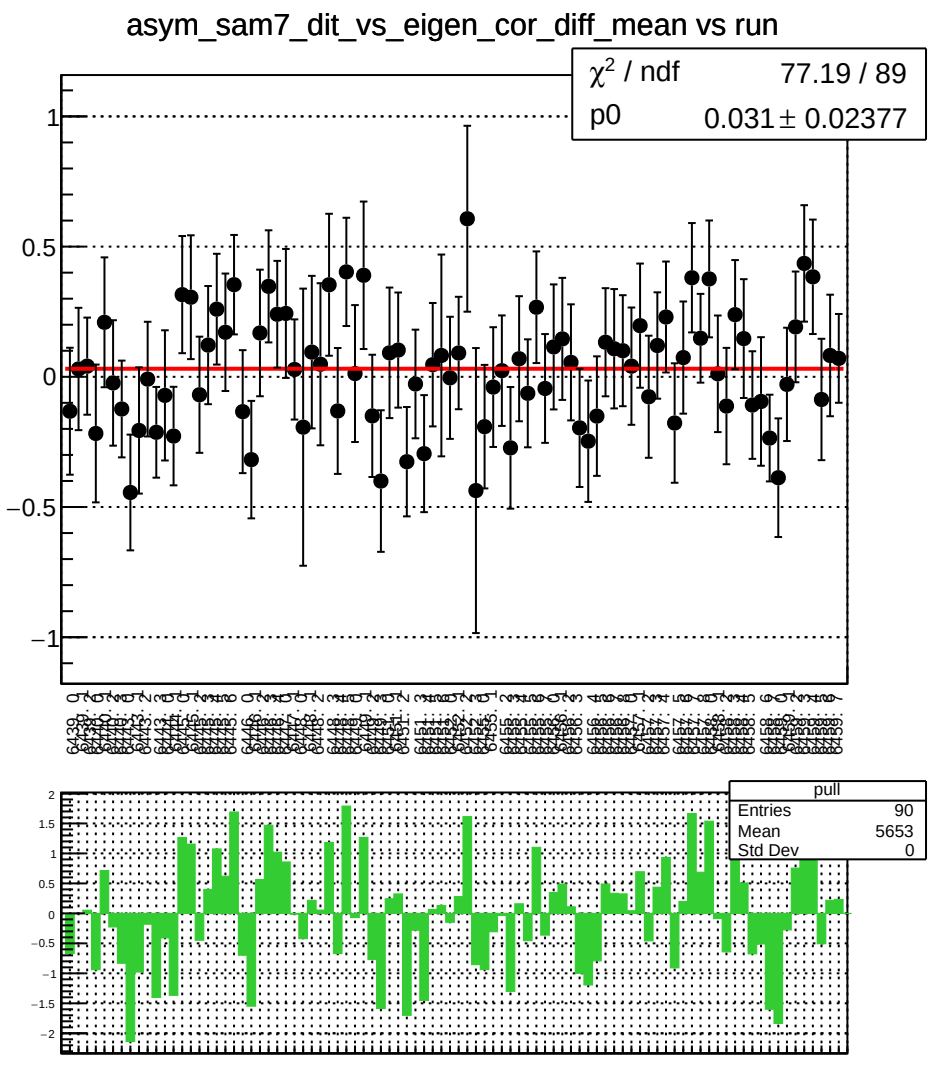

pull1D
Entries 90
Mean 0.04327
Std Dev 0.8964
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

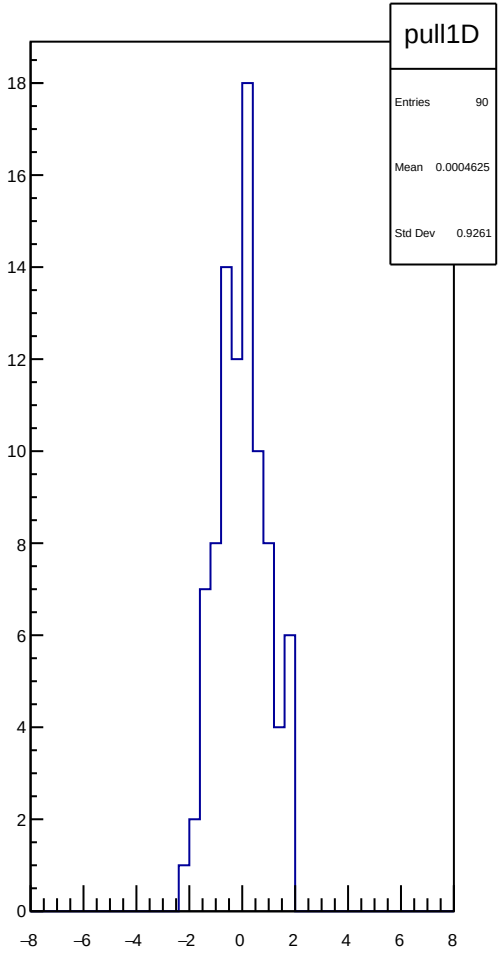

asym_sam7_reg_vs_cor_diff_rms vs run
χ2 / ndf 1.092e+06 / 89
p0 1.037e−11 ± 1.248e−14
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

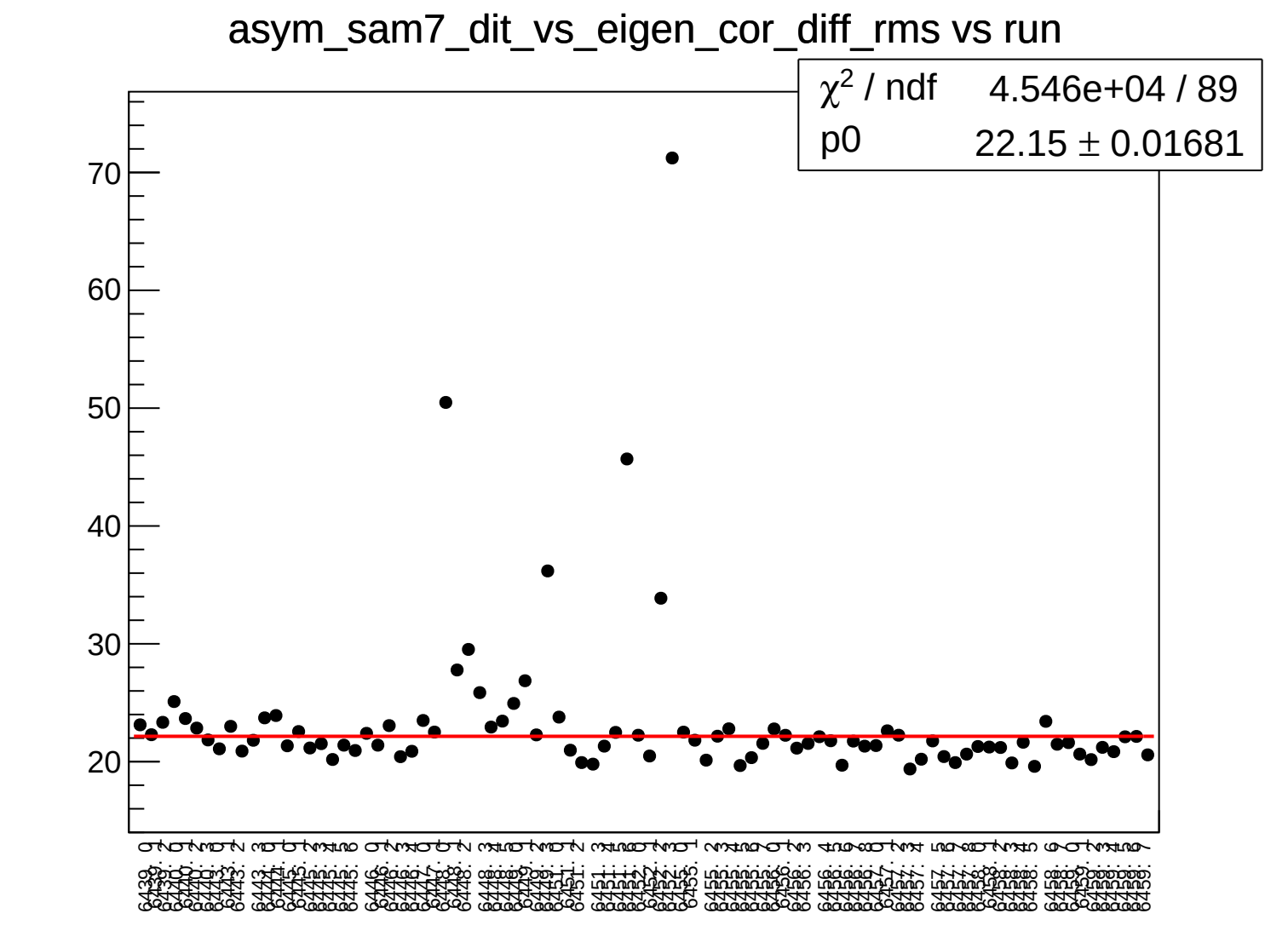

asym_sam7_dit_vs_cor_diff_mean vs run
χ² / ndf 77.19 / 89
p0 0.031 ± 0.02377
pull
Entries 90
Mean 5653
Std Dev 0

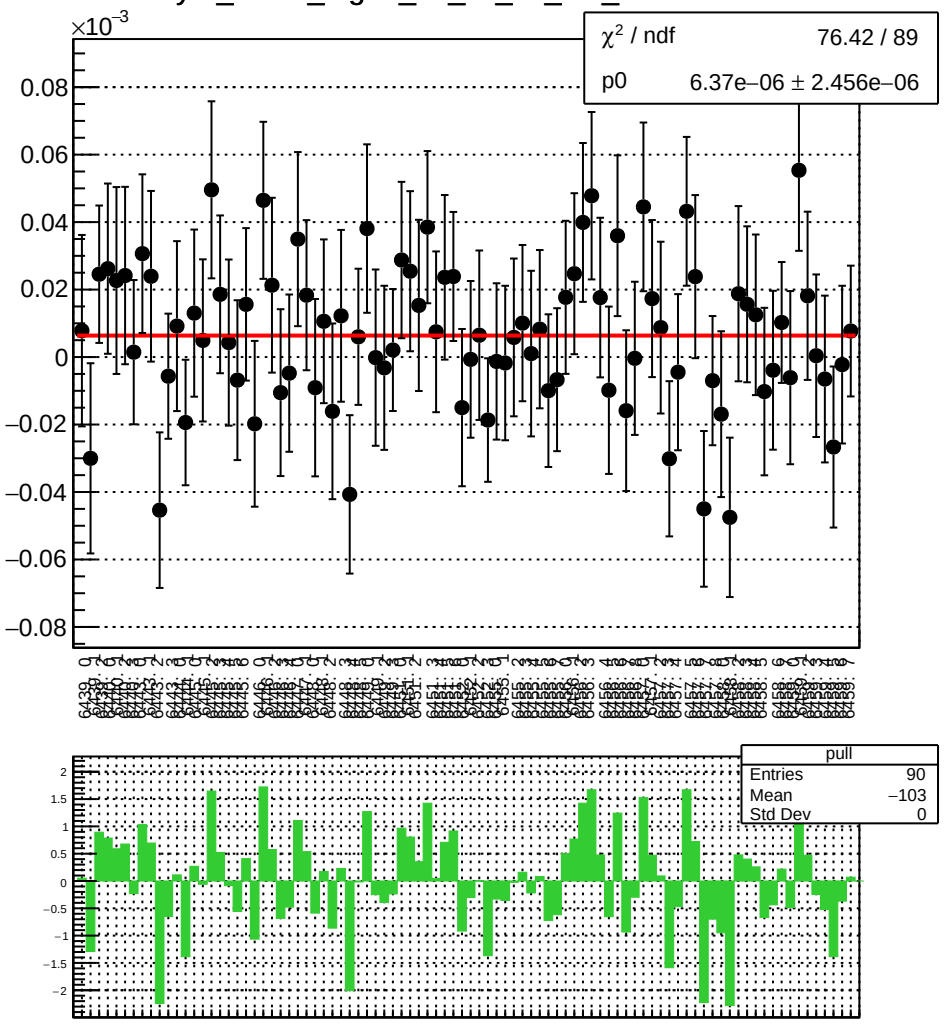

pull1D
Entries 90
Mean 0.0004625
Std Dev 0.9261

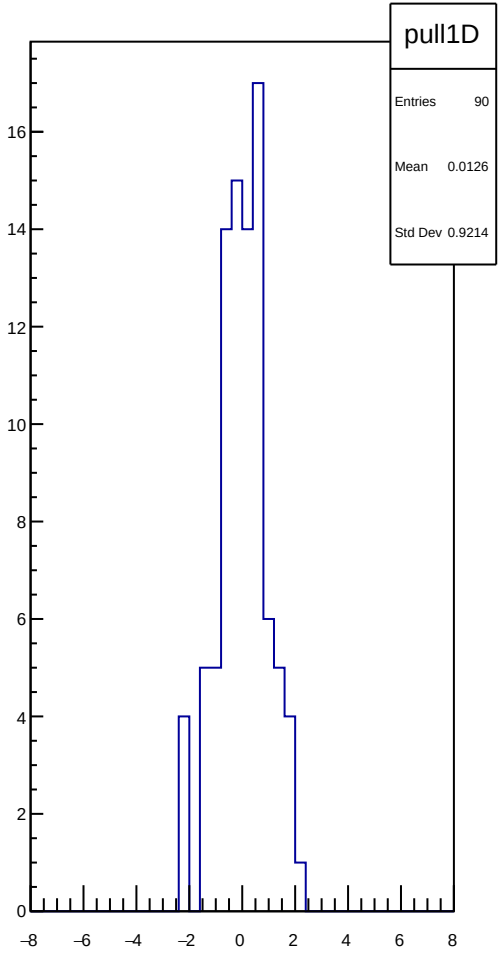

asym_sam7_dit_vs_cor_diff_rms vs run
χ^2 / ndf 4.546e+04 / 89
p0 22.15 ± 0.01681
70
60
50
40
30
20

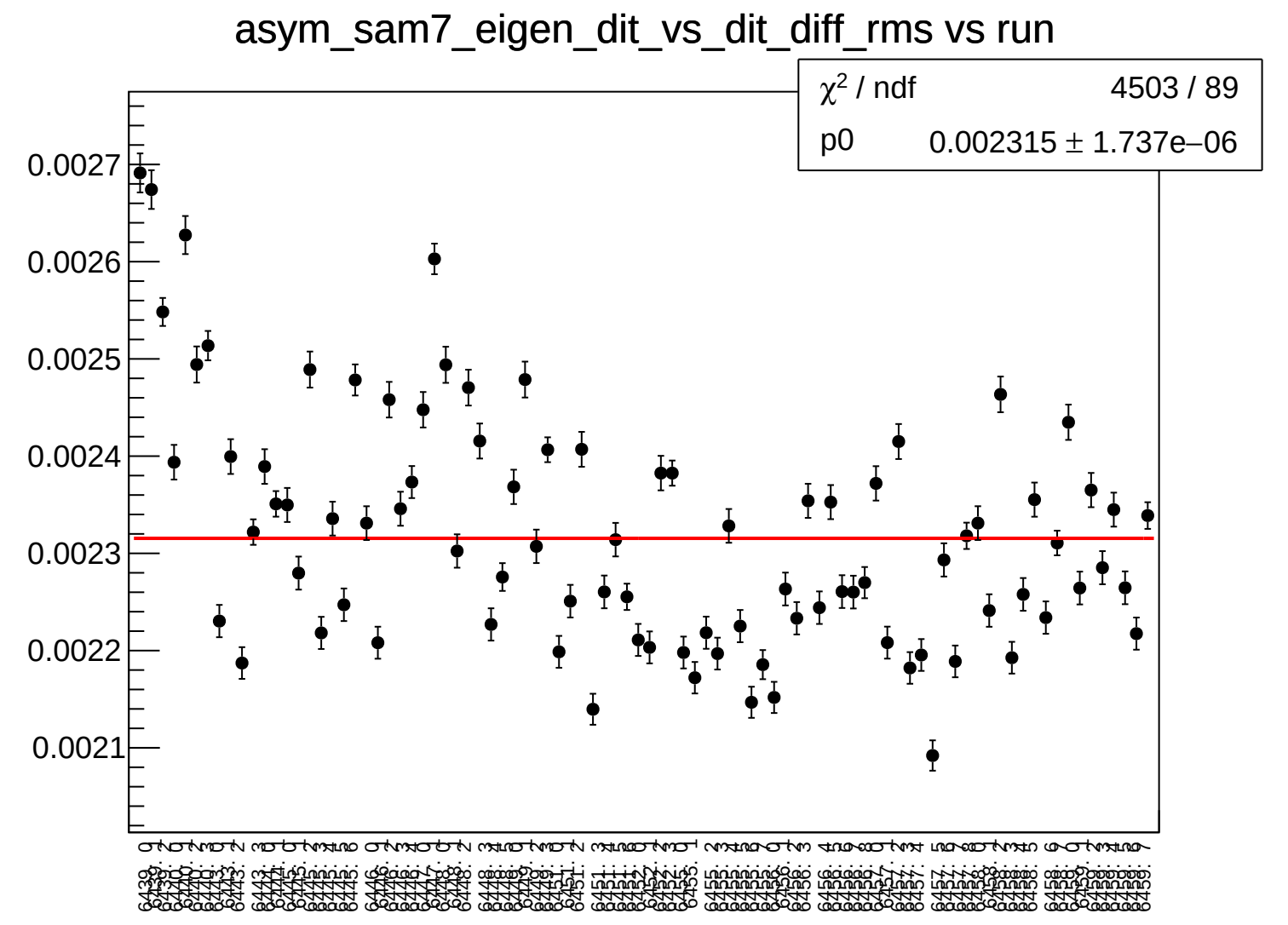

asym_sam7_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.19 / 89
p0 0.031 ± 0.02377
pull
Entries 90
Mean 5653
Std Dev 0

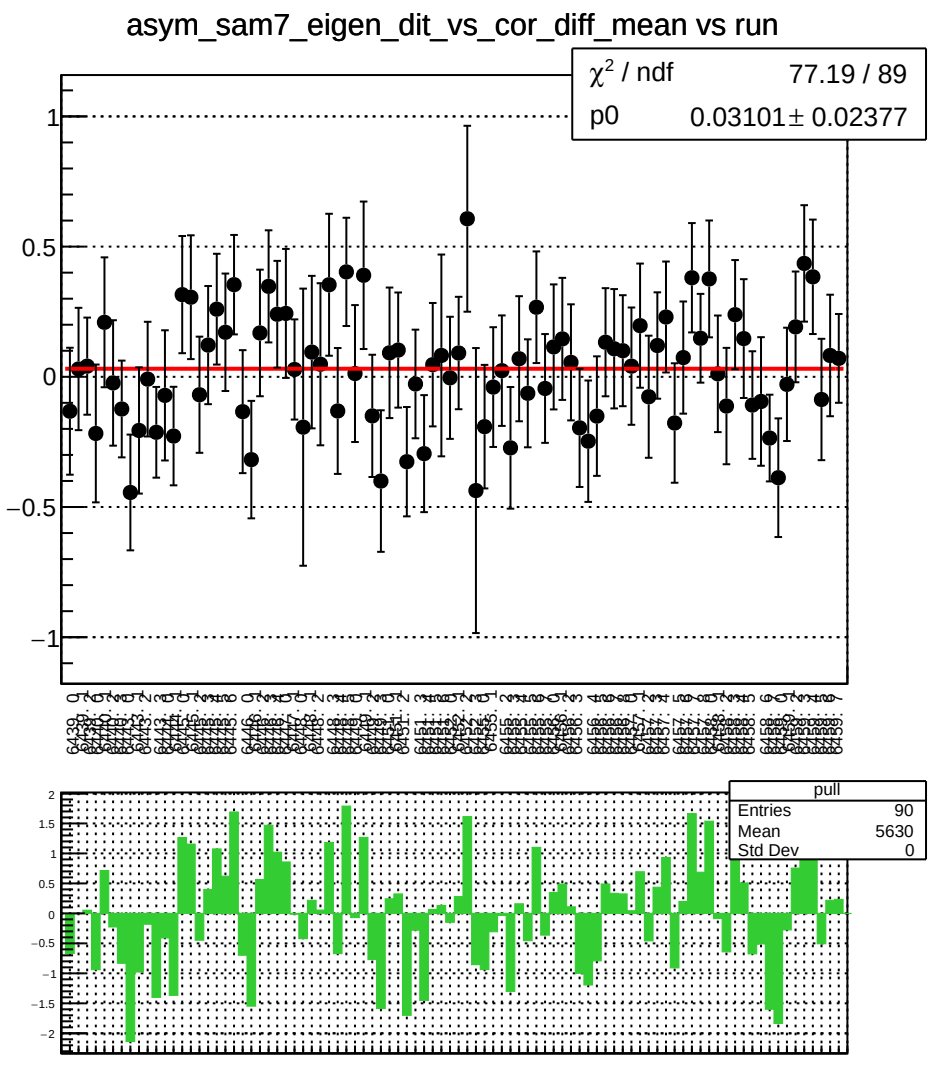

pull1D
Entries 90
Mean 0.0004625
Std Dev 0.9261

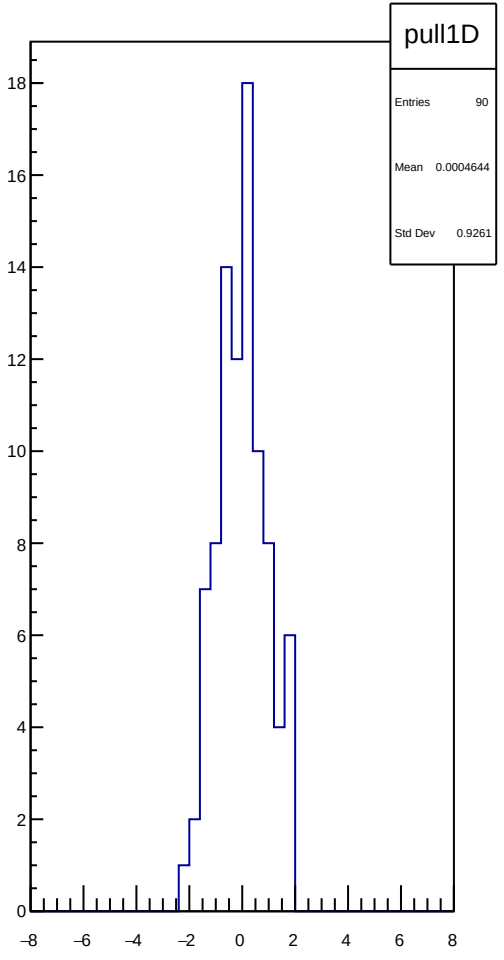

asym_sam7_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 4.546e+04 / 89
p0 22.15 ± 0.01681
70
60
50
40
30
20

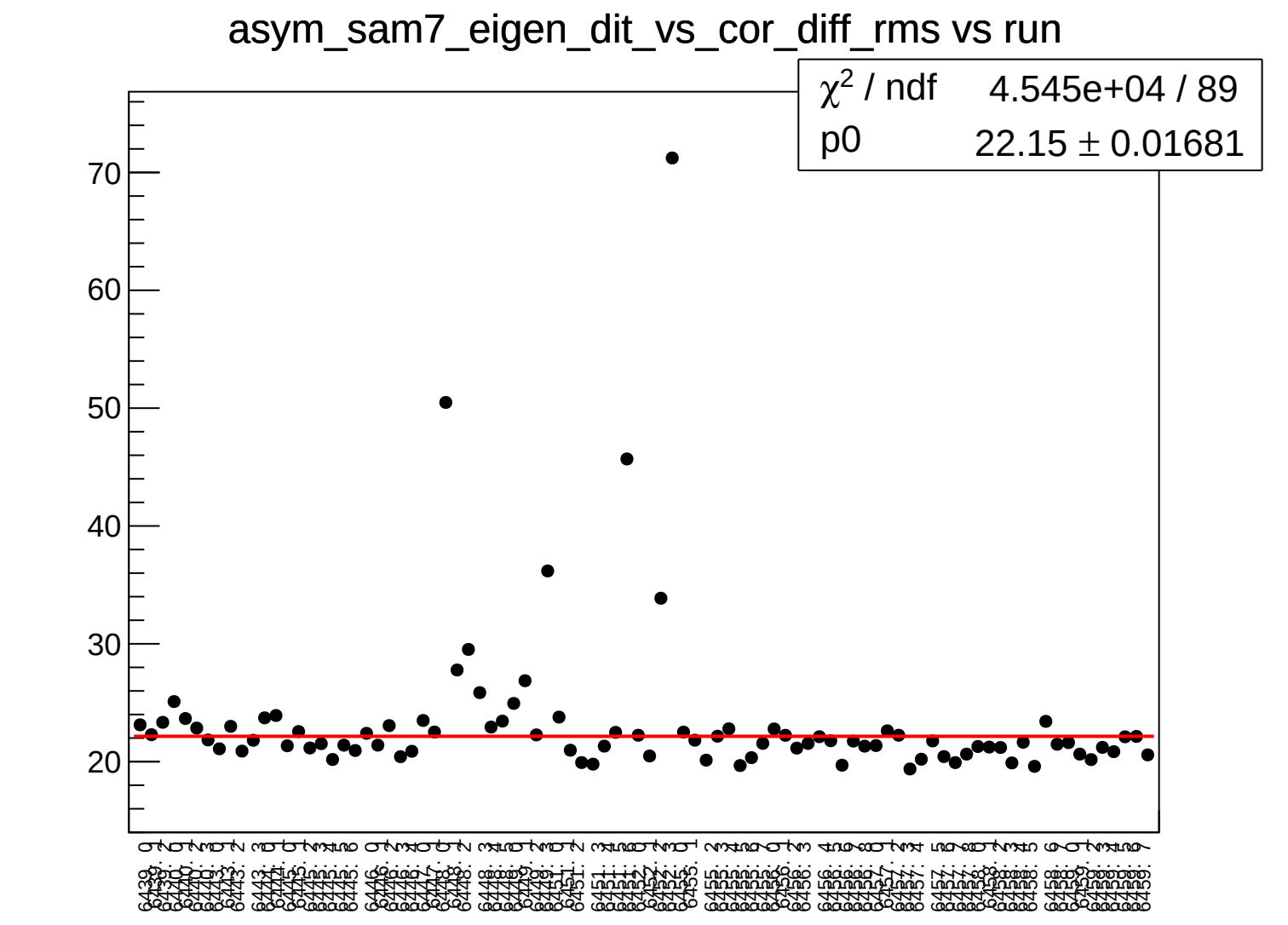

asym_sam7_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 76.42 / 89
p0 6.37e−06 ± 2.456e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 90
Mean −103
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

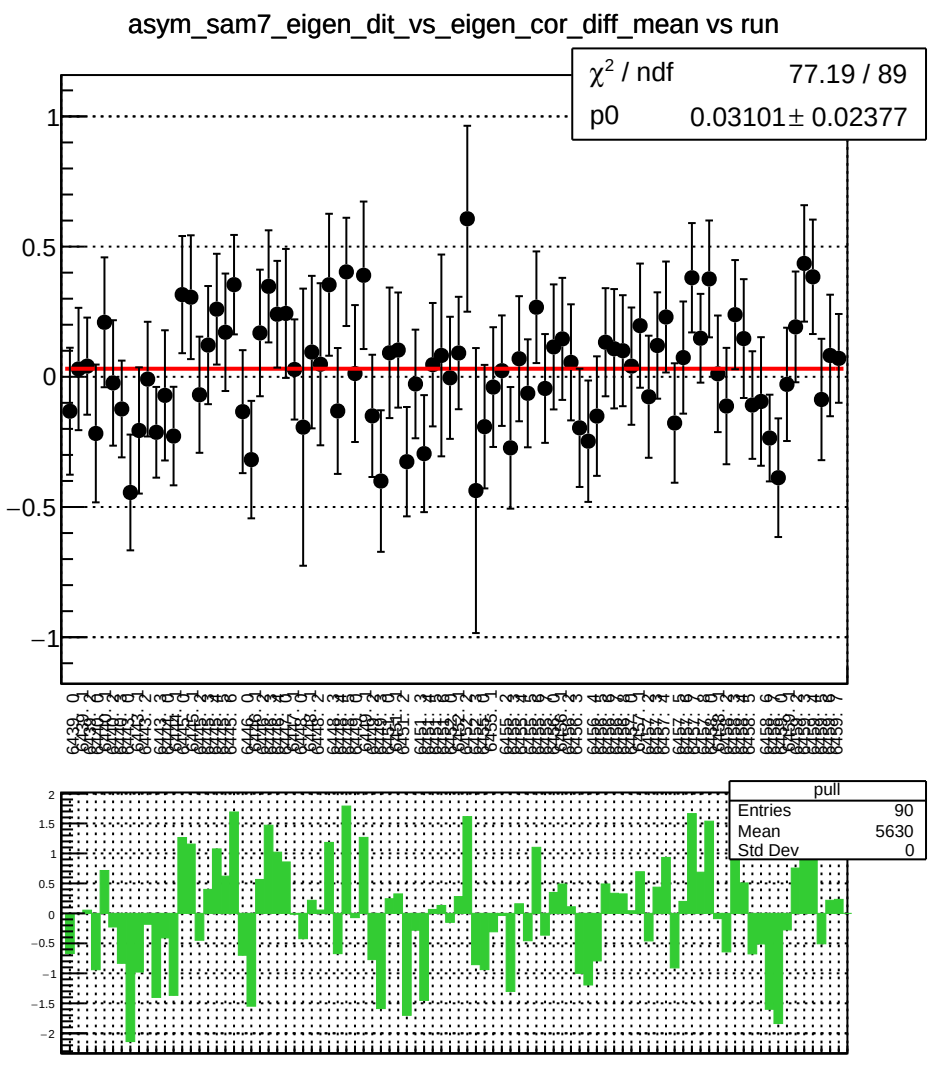

pull1D
Entries 90
Mean 0.0126
Std Dev 0.9214
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

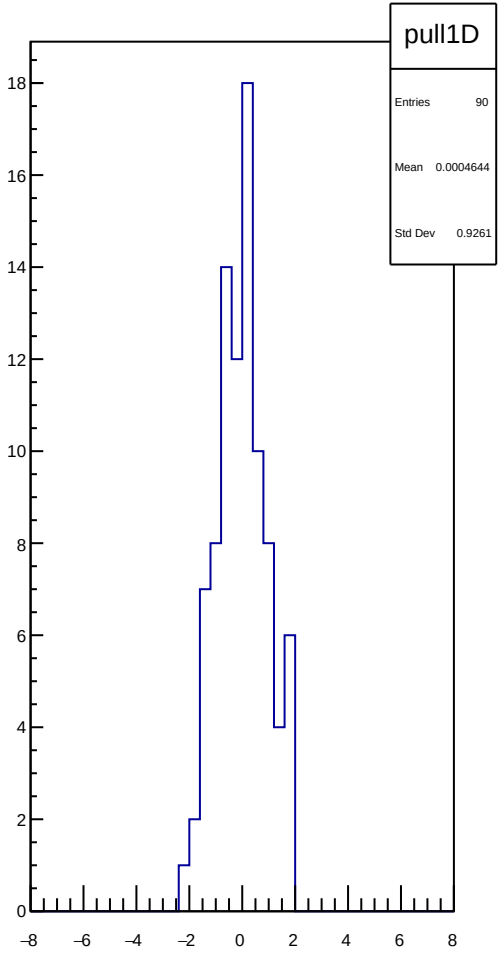

asym_sam7_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4503 / 89
p0 0.002315 ± 1.737e−06
0.0027
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021

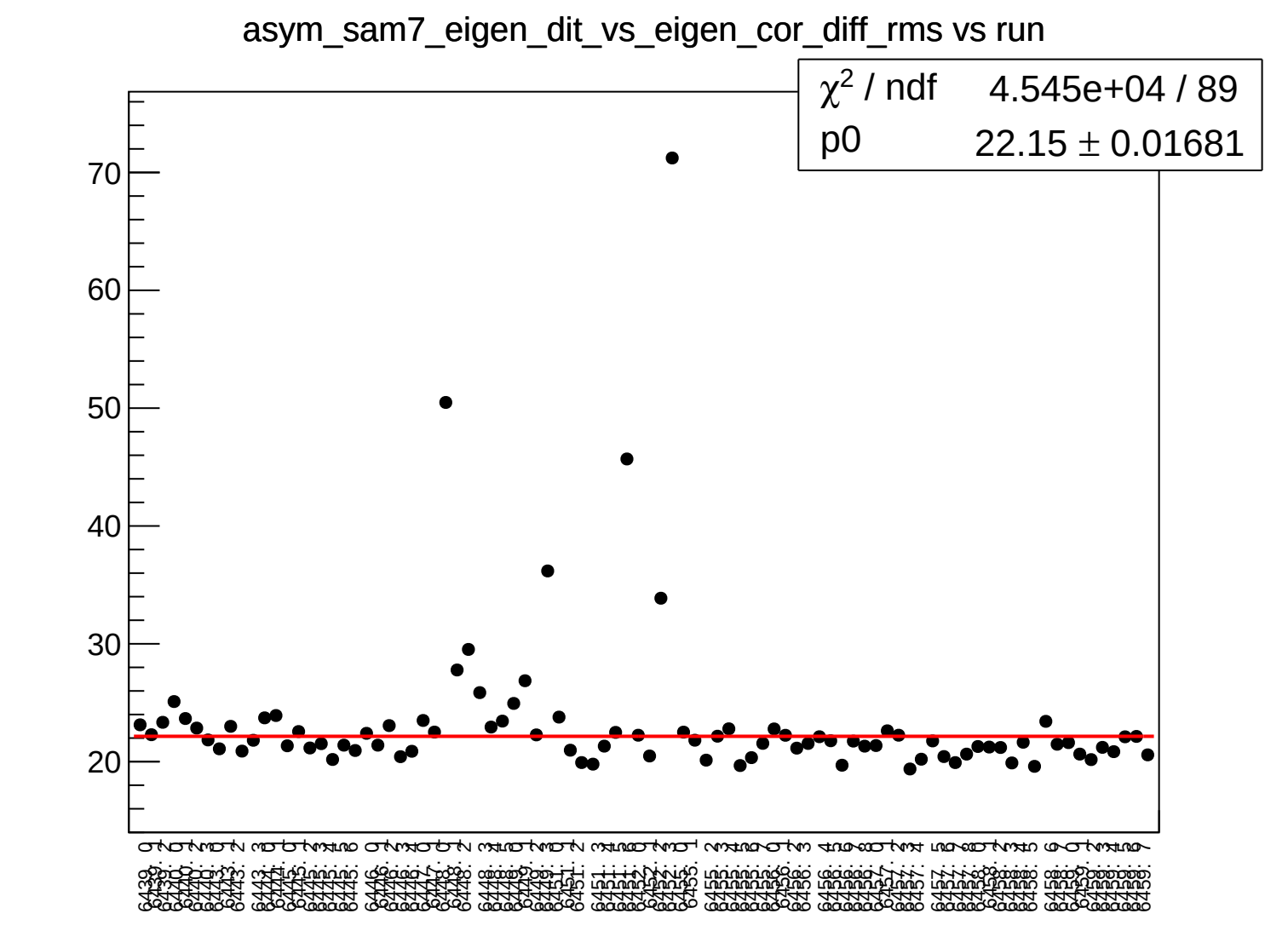

asym_sam7_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.19 / 89
p0 0.03101 ± 0.02377
pull
Entries 90
Mean 5630
Std Dev 0

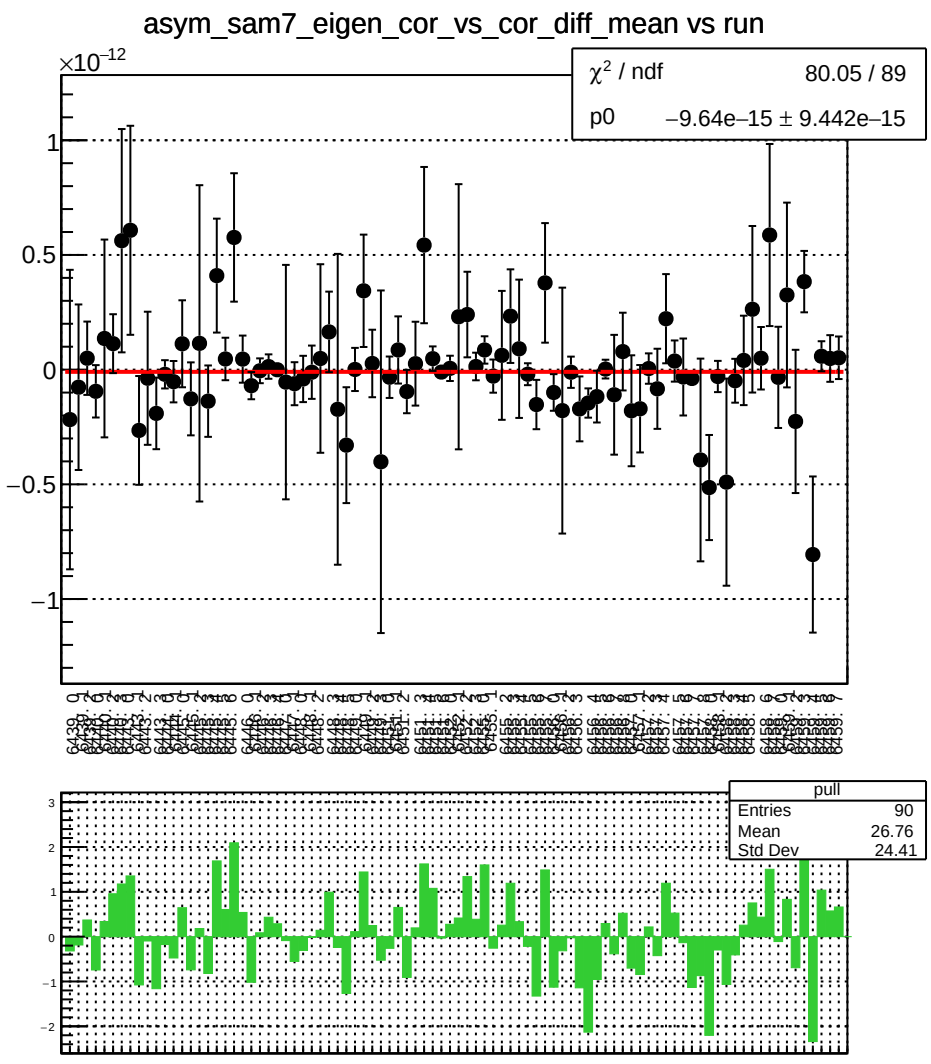

pull1D
Entries 90
Mean 0.0004644
Std Dev 0.9261

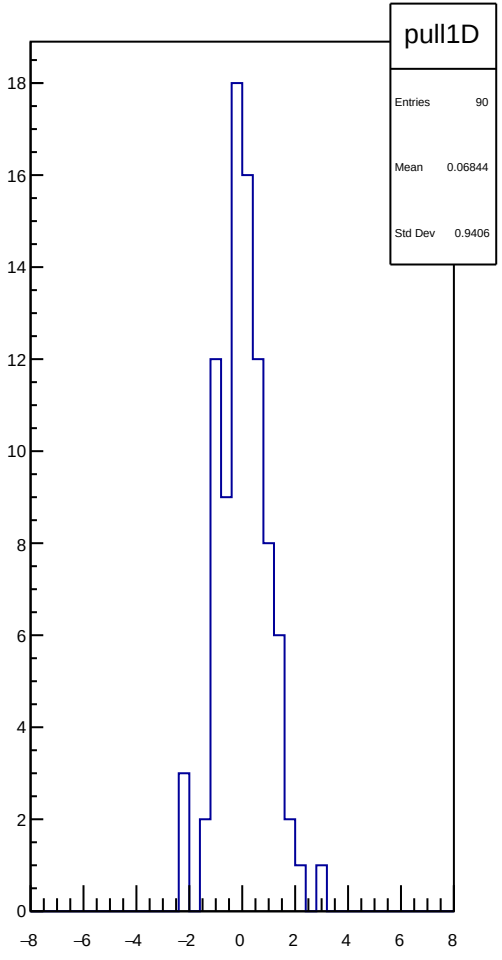

asym_sam7_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 4.545e+04 / 89
p0 22.15 ± 0.01681
70
60
50
40
30
20

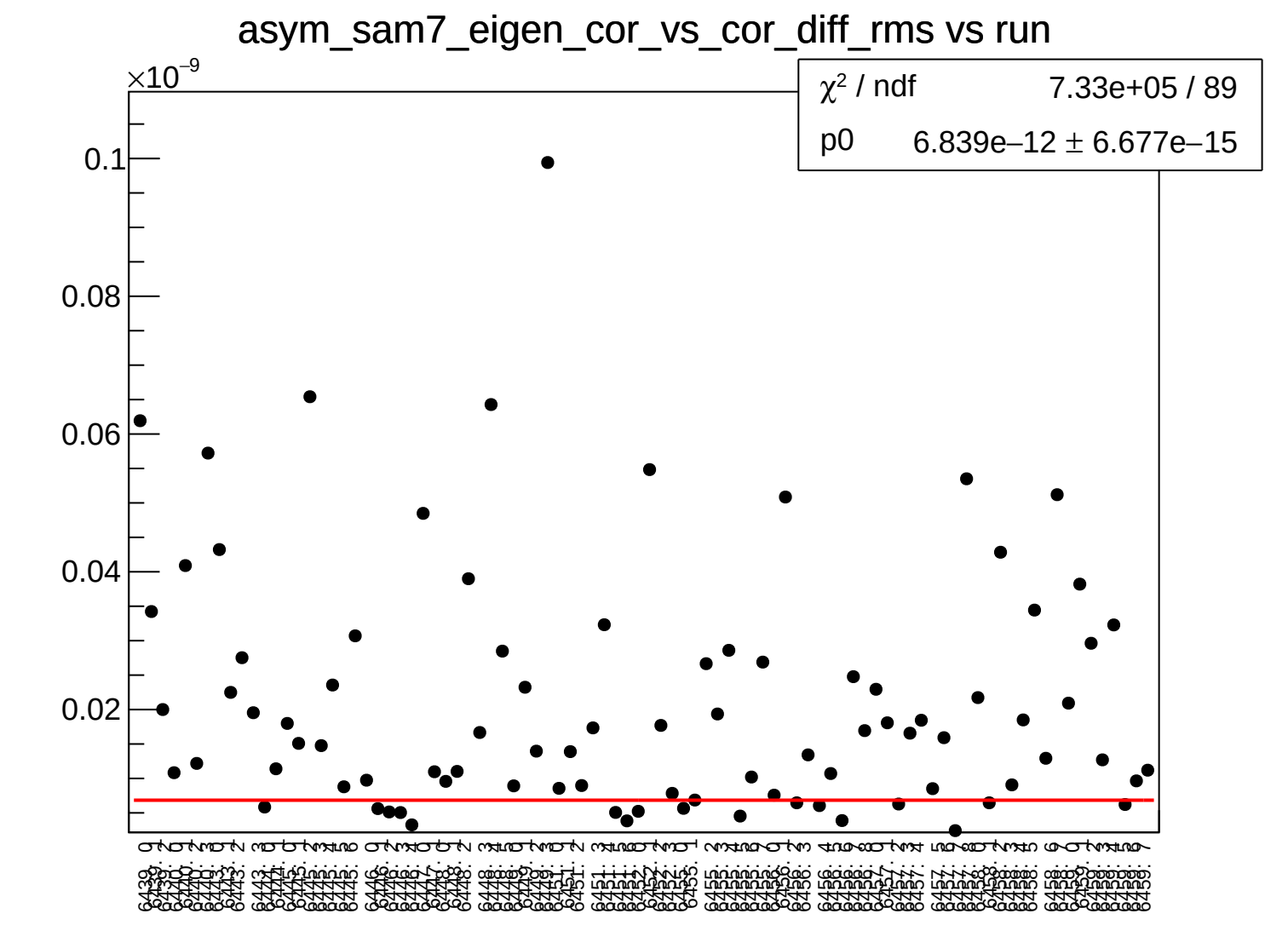

asym_sam7_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.19 / 89
p0 0.03101 ± 0.02377
pull
Entries 90
Mean 5630
Std Dev 0

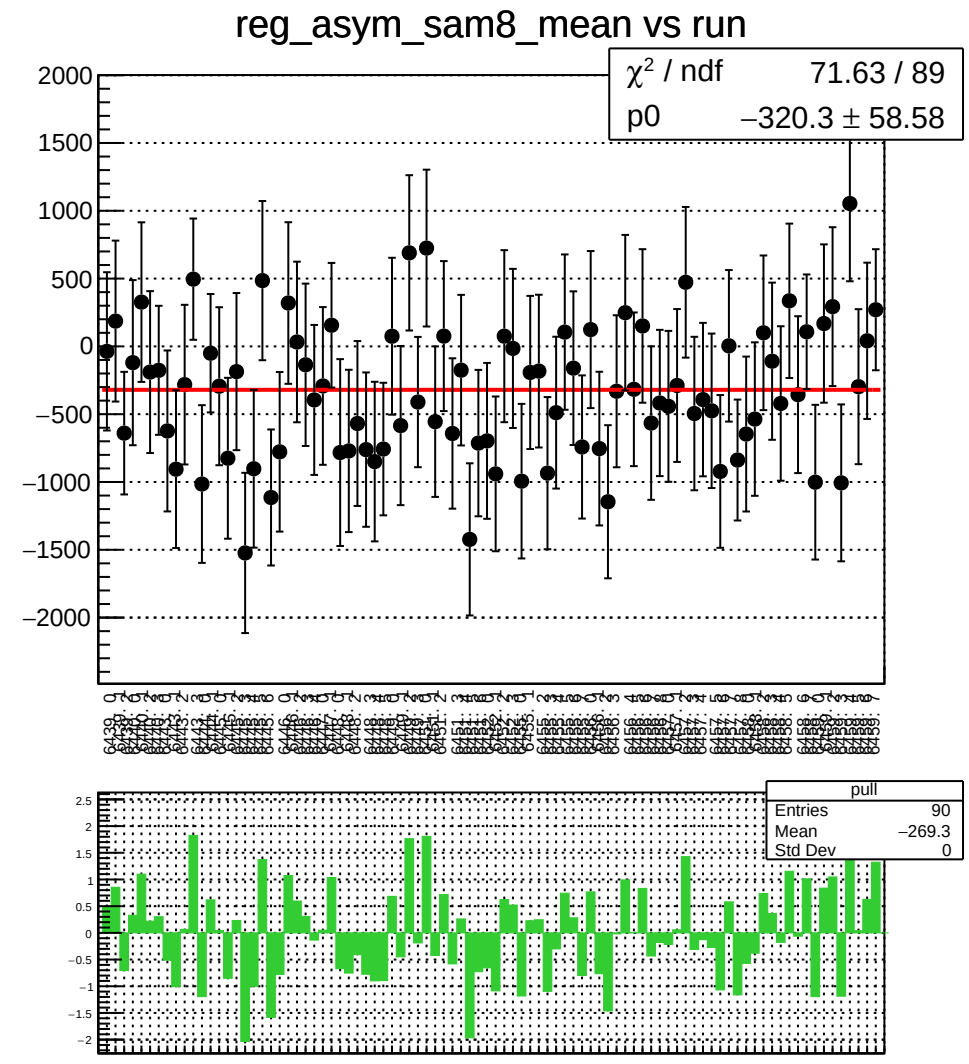

pull1D
Entries 90
Mean 0.0004644
Std Dev 0.9261

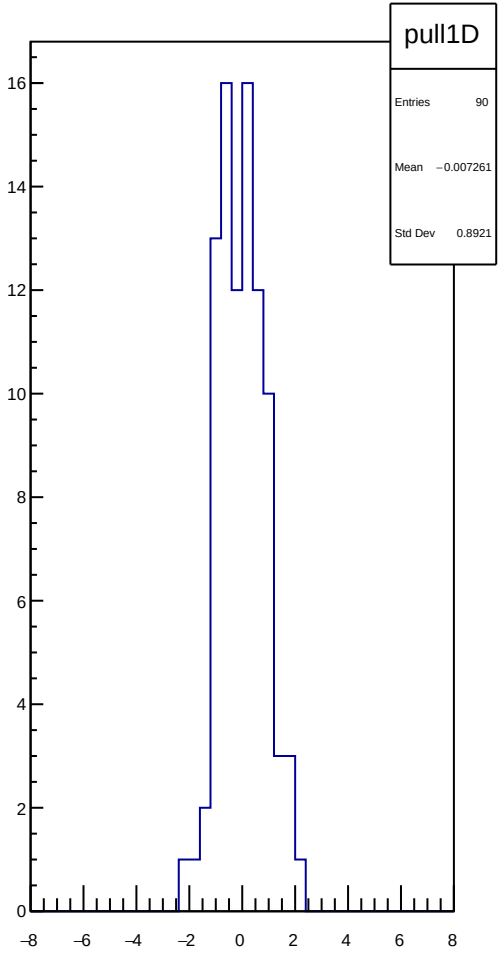

asym_sam7_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.545e+04 / 89
p0 22.15 ± 0.01681
70
60
50
40
30
20

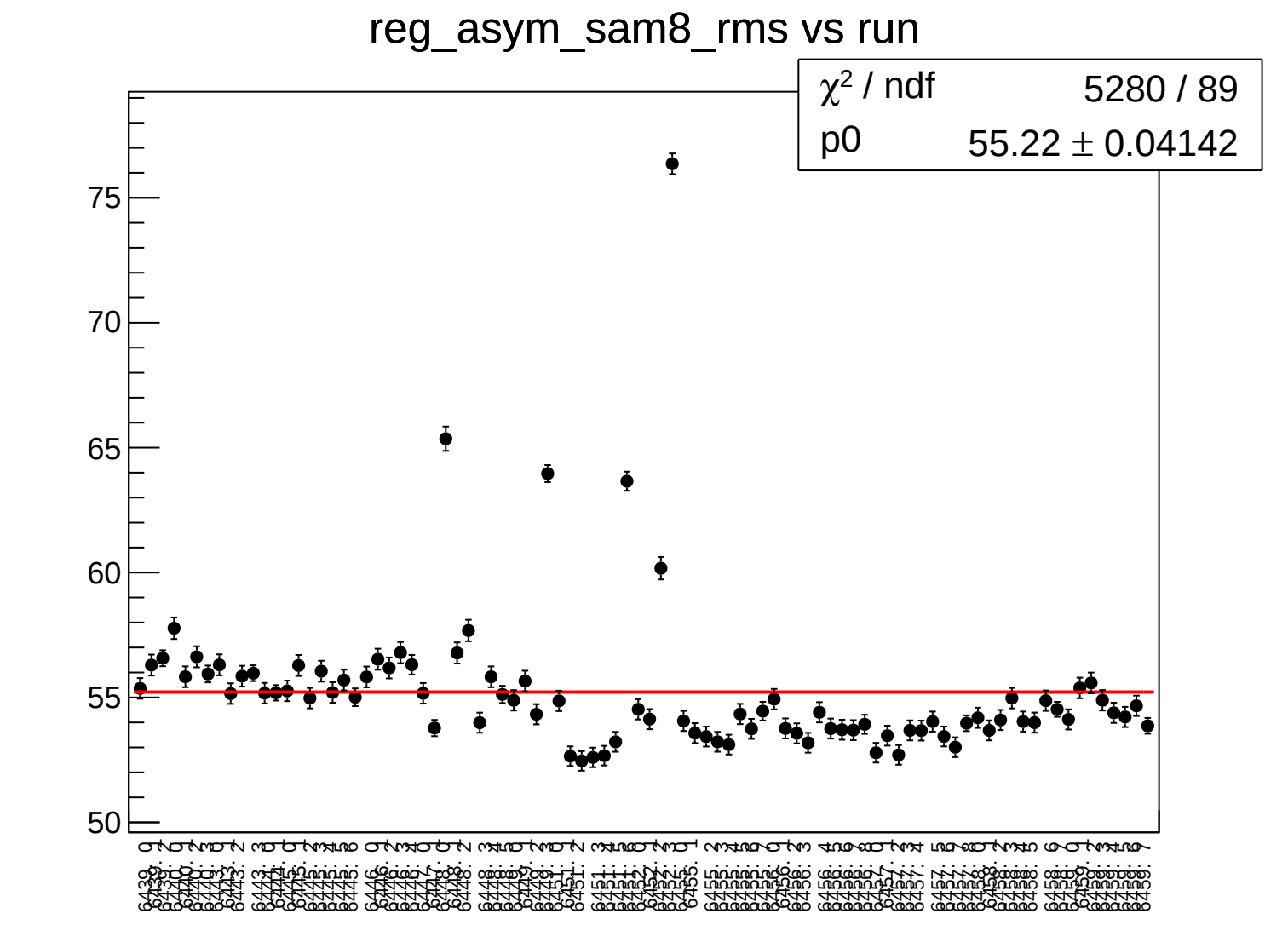

asym_sam7_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.05 / 89
p0 −9.64e−15 ± 9.442e−15
pull
Entries 90
Mean 26.76
Std Dev 24.41

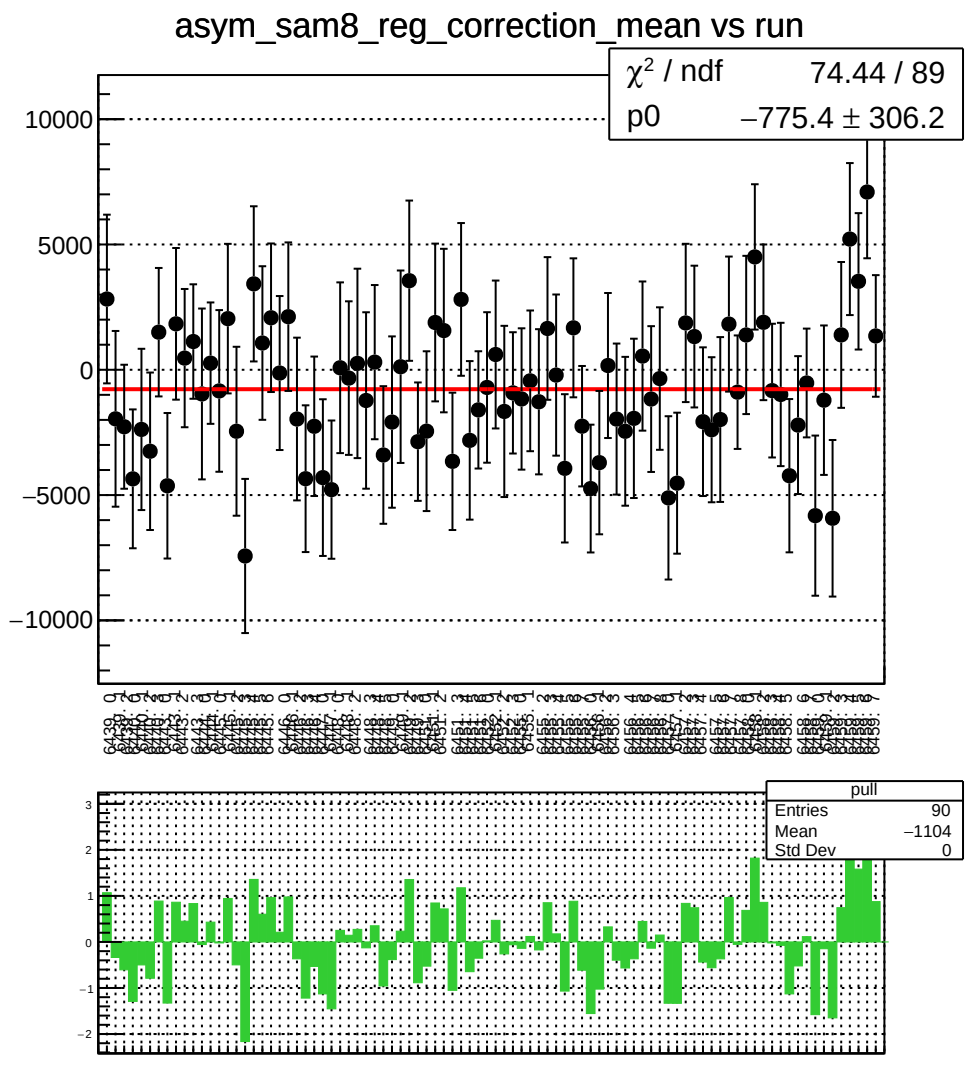

pull1D
Entries 90
Mean 0.06844
Std Dev 0.9406

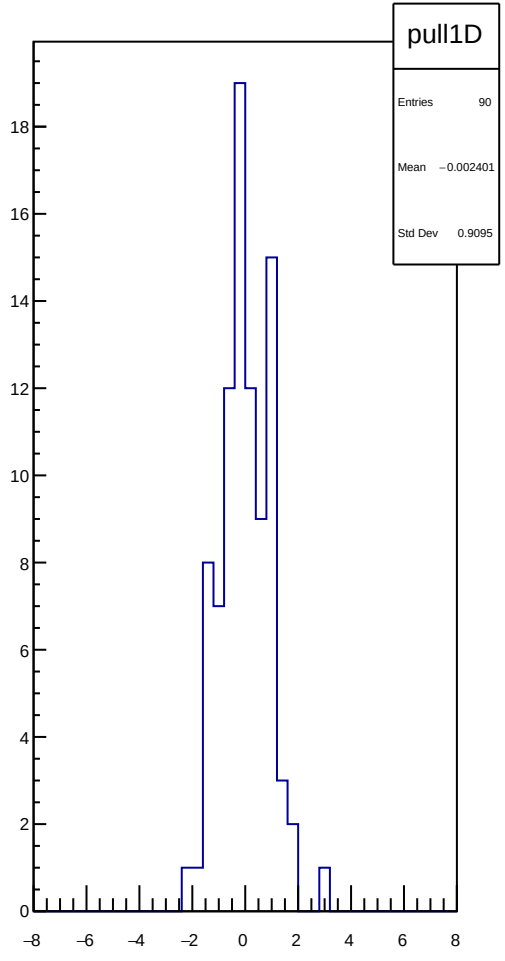

asym_sam7_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.33e+05 / 89
p0 6.839e−12 ± 6.677e−15
0.1
0.08
0.06
0.04
0.02

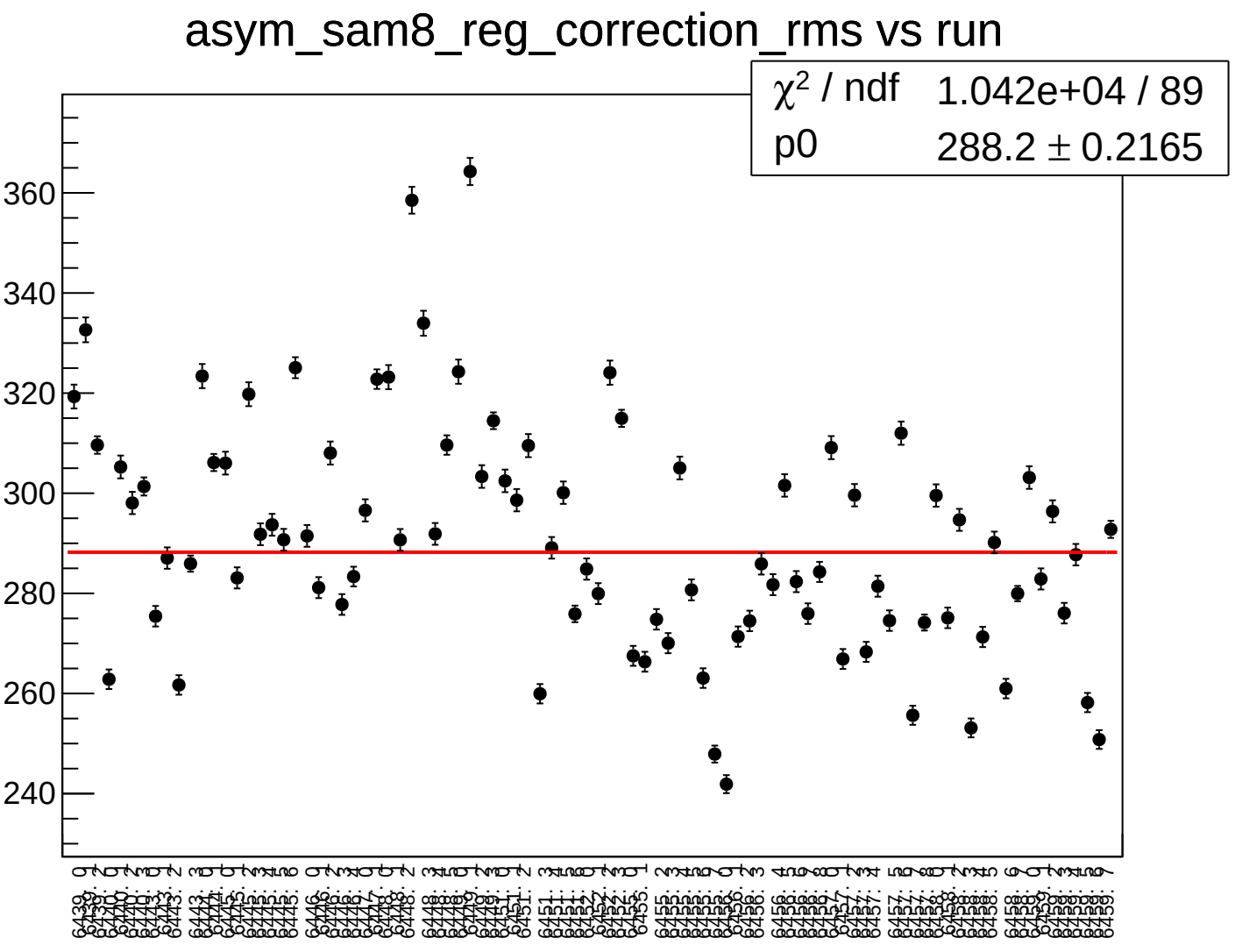

reg_asym_sam8_mean vs run
χ² / ndf 71.63 / 89
p0 −320.3 ± 58.58
pull
Entries 90
Mean −269.3
Std Dev 0

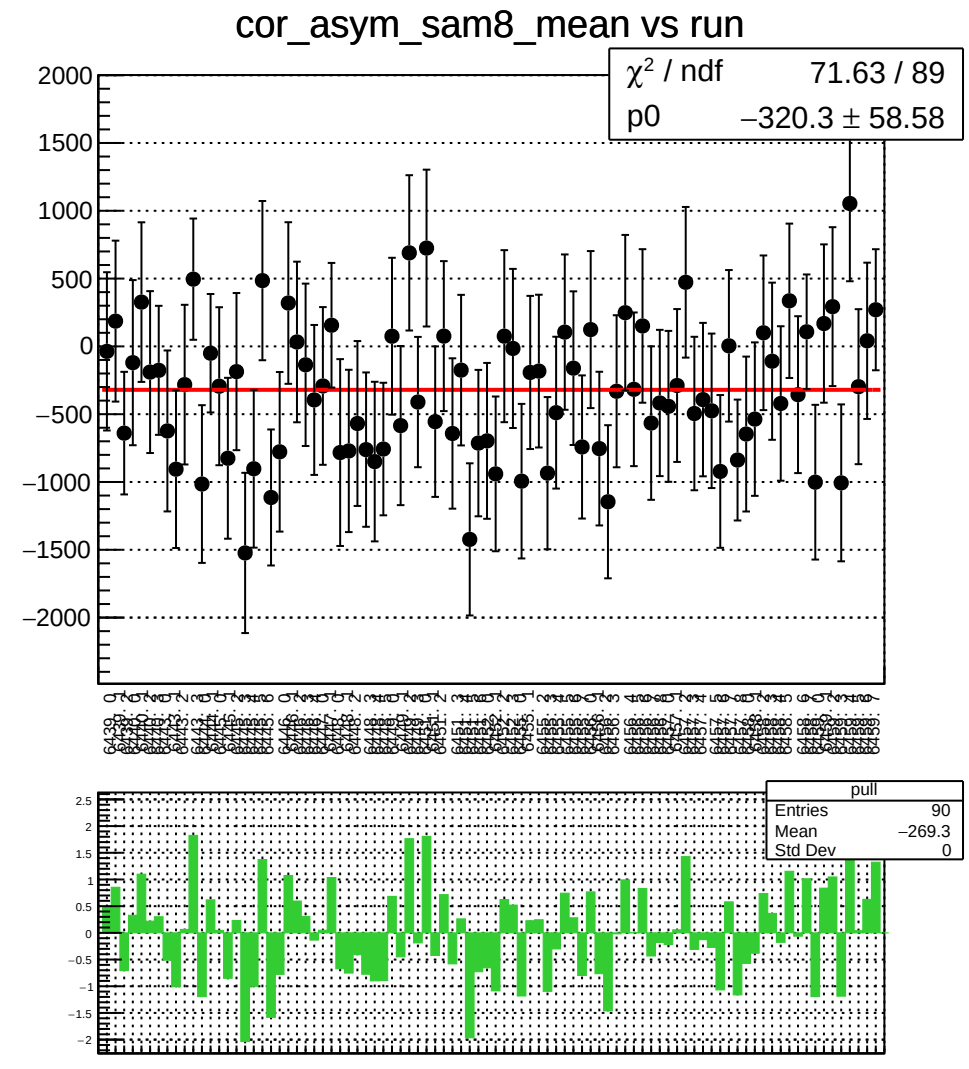

pull1D
Entries 90
Mean −0.007261
Std Dev 0.8921

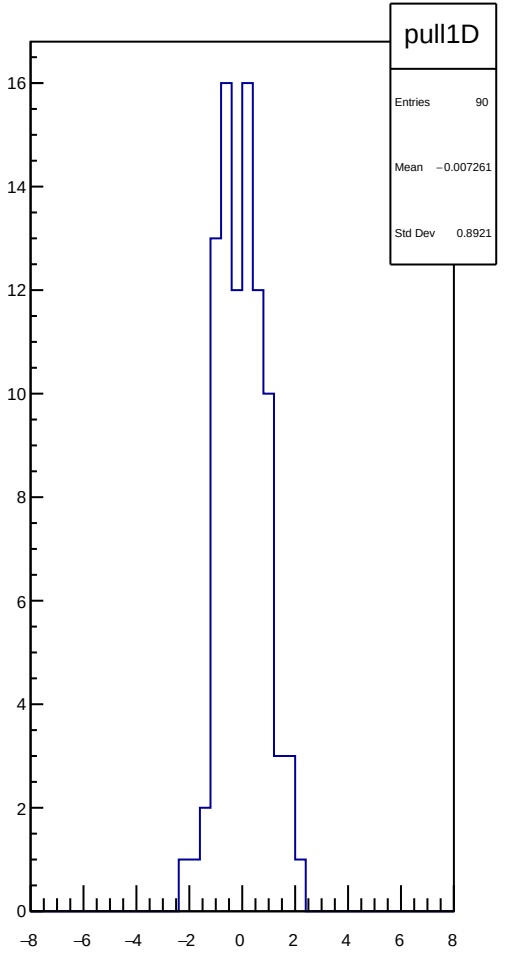

reg_asym_sam8_rms vs run
χ^2 / ndf 5280 / 89
p0 55.22 ± 0.04142
75
70
65
60
55
50

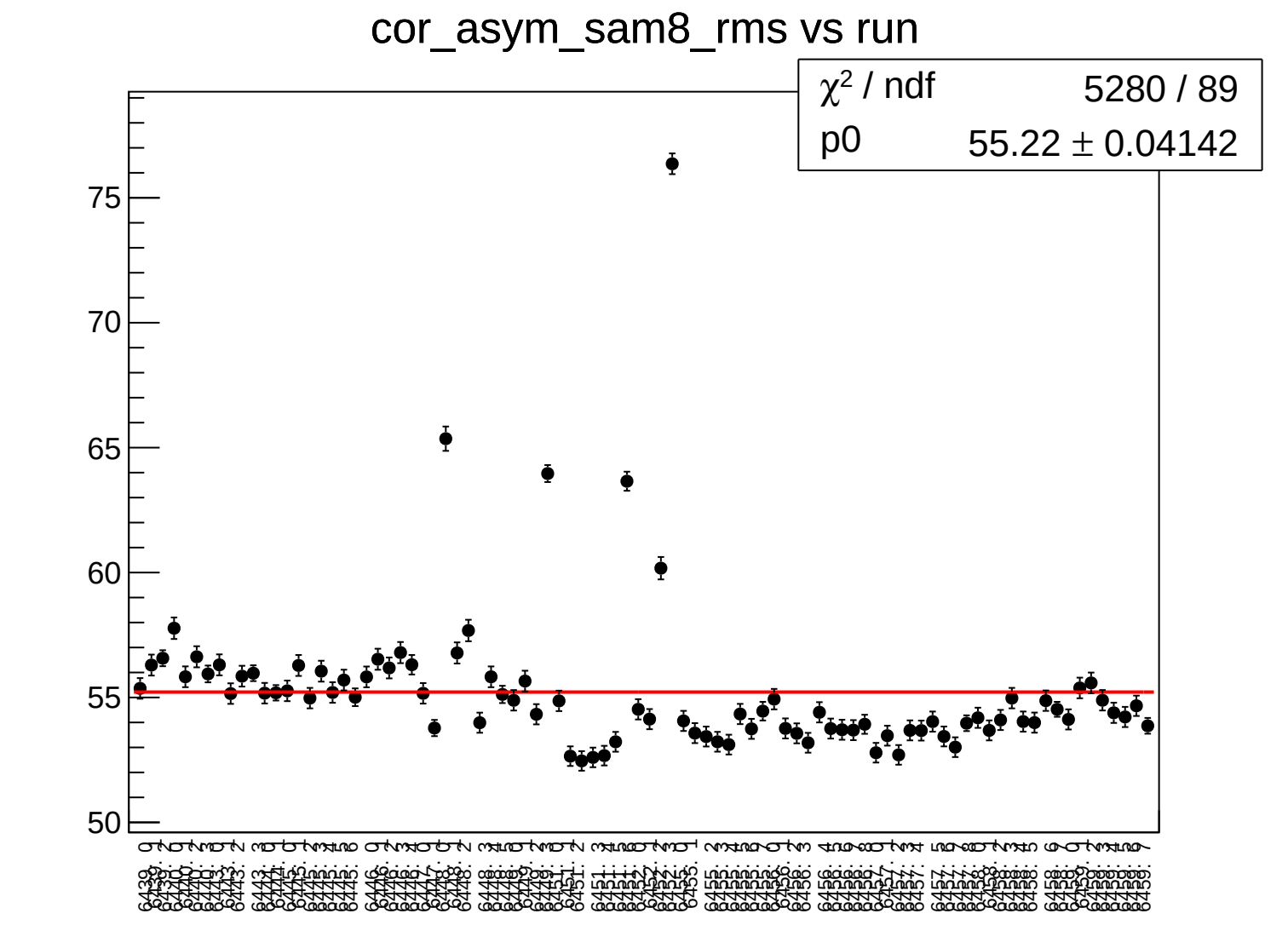

asym_sam8_reg_correction_mean vs run
χ² / ndf 74.44 / 89
p0 −775.4 ± 306.2
10000
5000
0
−5000
−10000
pull
Entries 90
Mean −1104
Std Dev 0
3
2
1
0
−1
−2

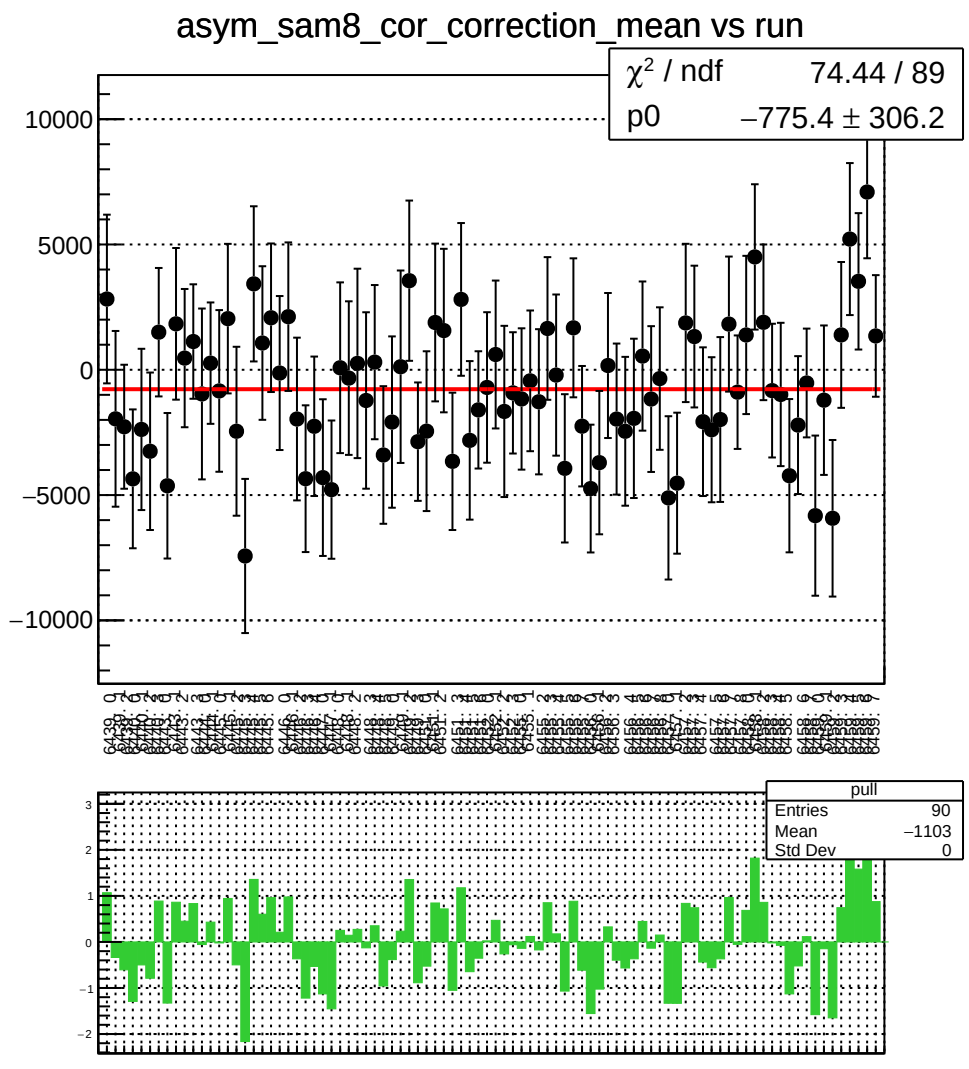

pull1D
Entries 90
Mean −0.002401
Std Dev 0.9095
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

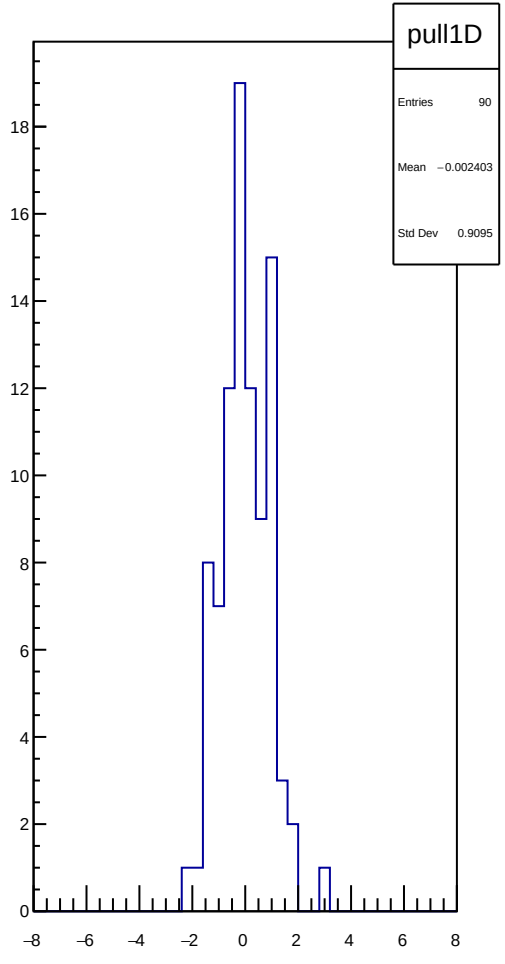

asym_sam8_reg_correction_rms vs run
χ² / ndf 1.042e+04 / 89
p0 288.2 ± 0.2165
360
340
320
300
280
260
240

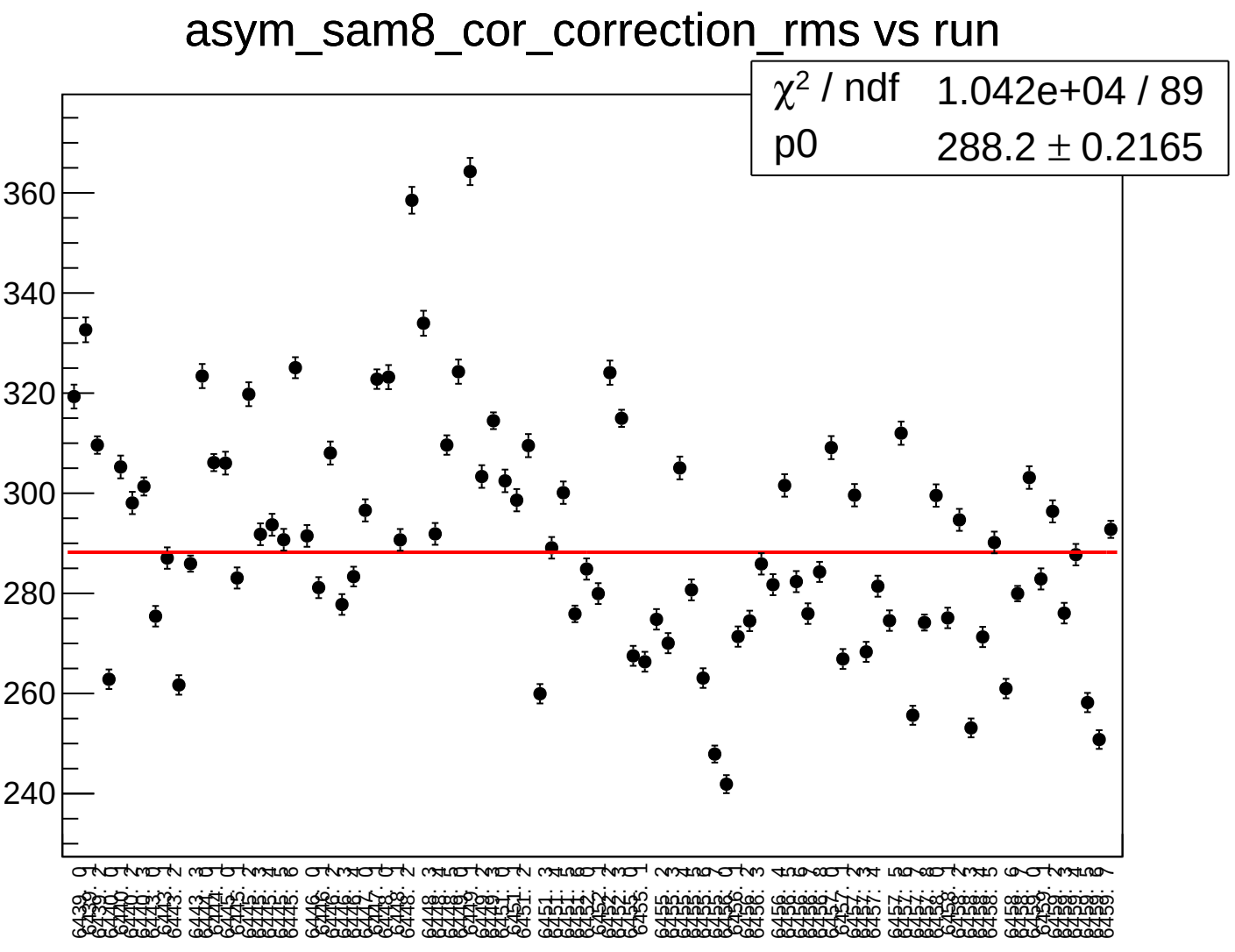

cor_asym_sam8_mean vs run
χ² / ndf 71.63 / 89
p0 −320.3 ± 58.58
pull
Entries 90
Mean −269.3
Std Dev 0

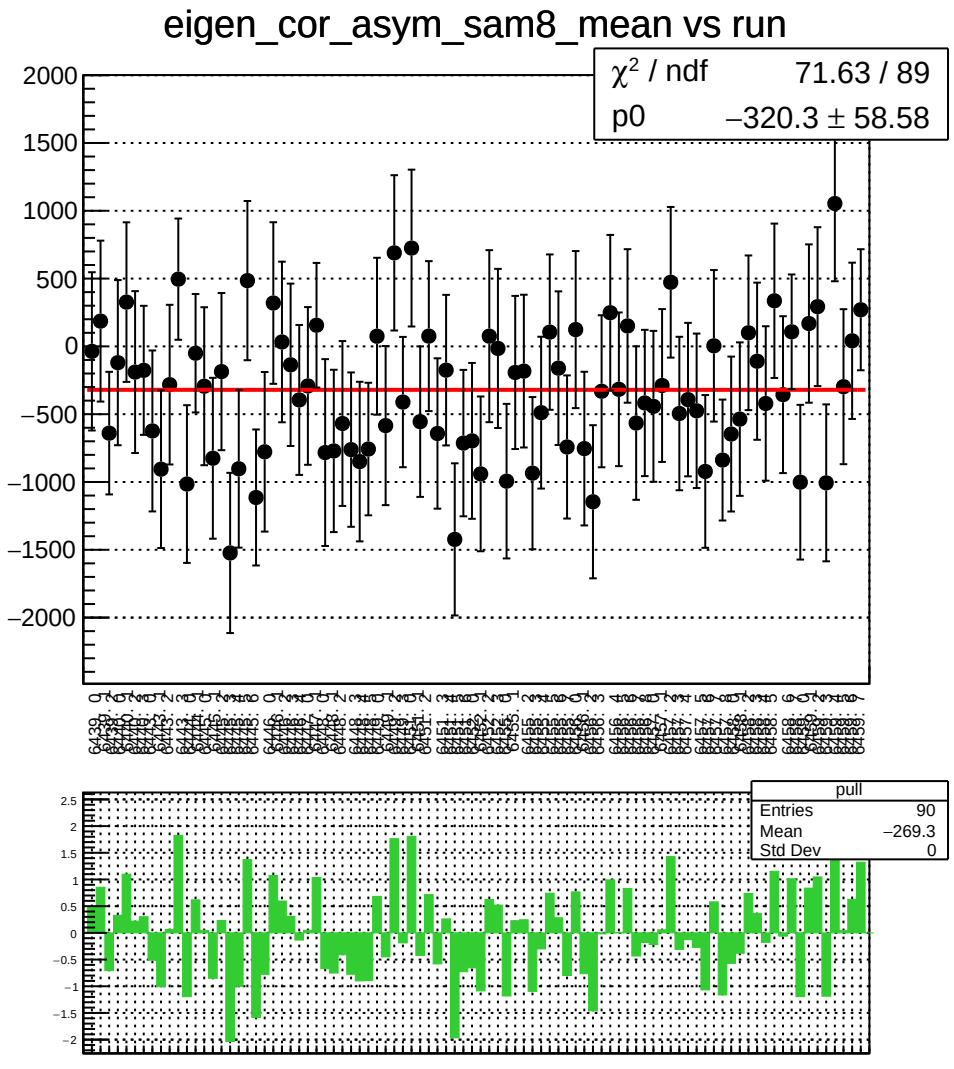

pull1D
Entries 90
Mean −0.007261
Std Dev 0.8921

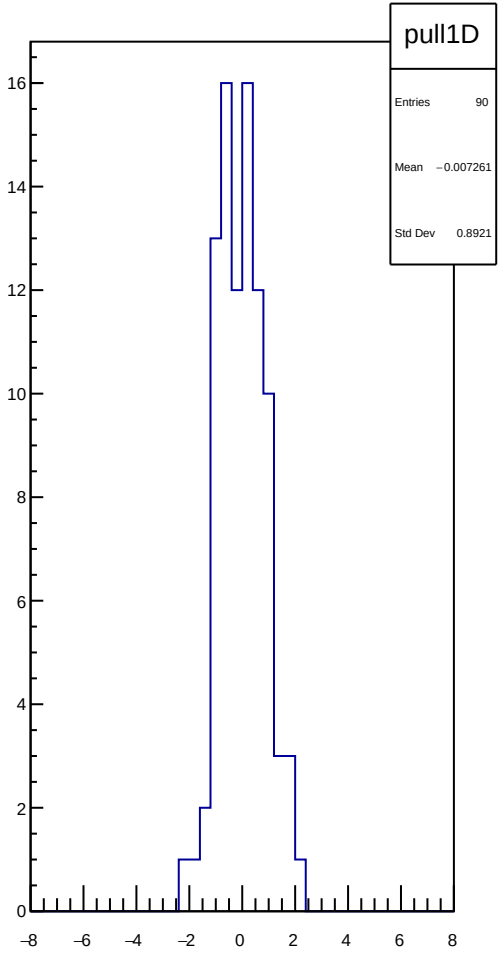

cor_asym_sam8_rms vs run
χ^2 / ndf 5280 / 89
p0 55.22 ± 0.04142
75
70
65
60
55
50

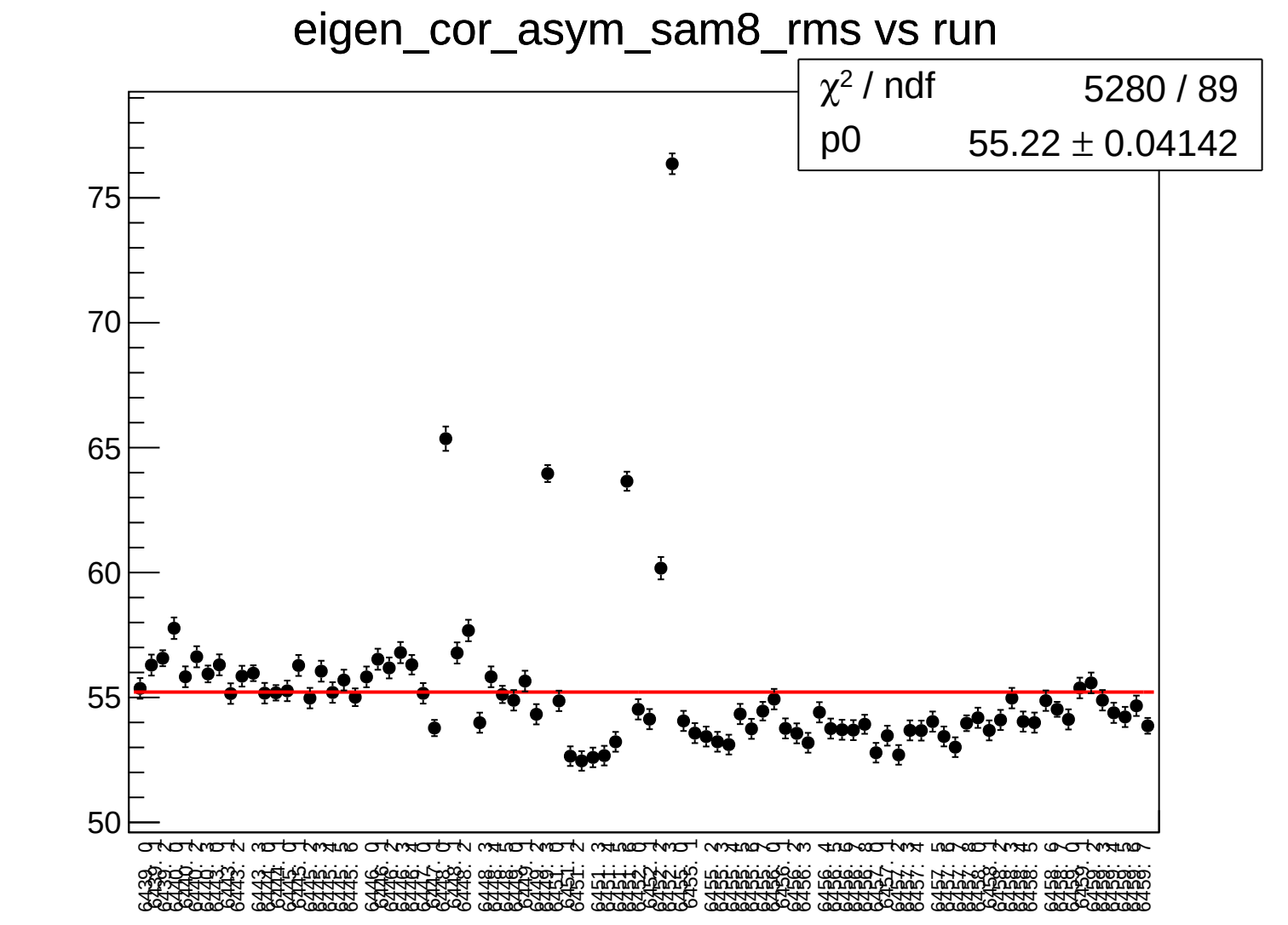

asym_sam8_cor_correction_mean vs run
χ² / ndf 74.44 / 89
p0 −775.4 ± 306.2
10000
5000
0
−5000
−10000
pull
Entries 90
Mean −1103
Std Dev 0
3
2
1
0
−1
−2

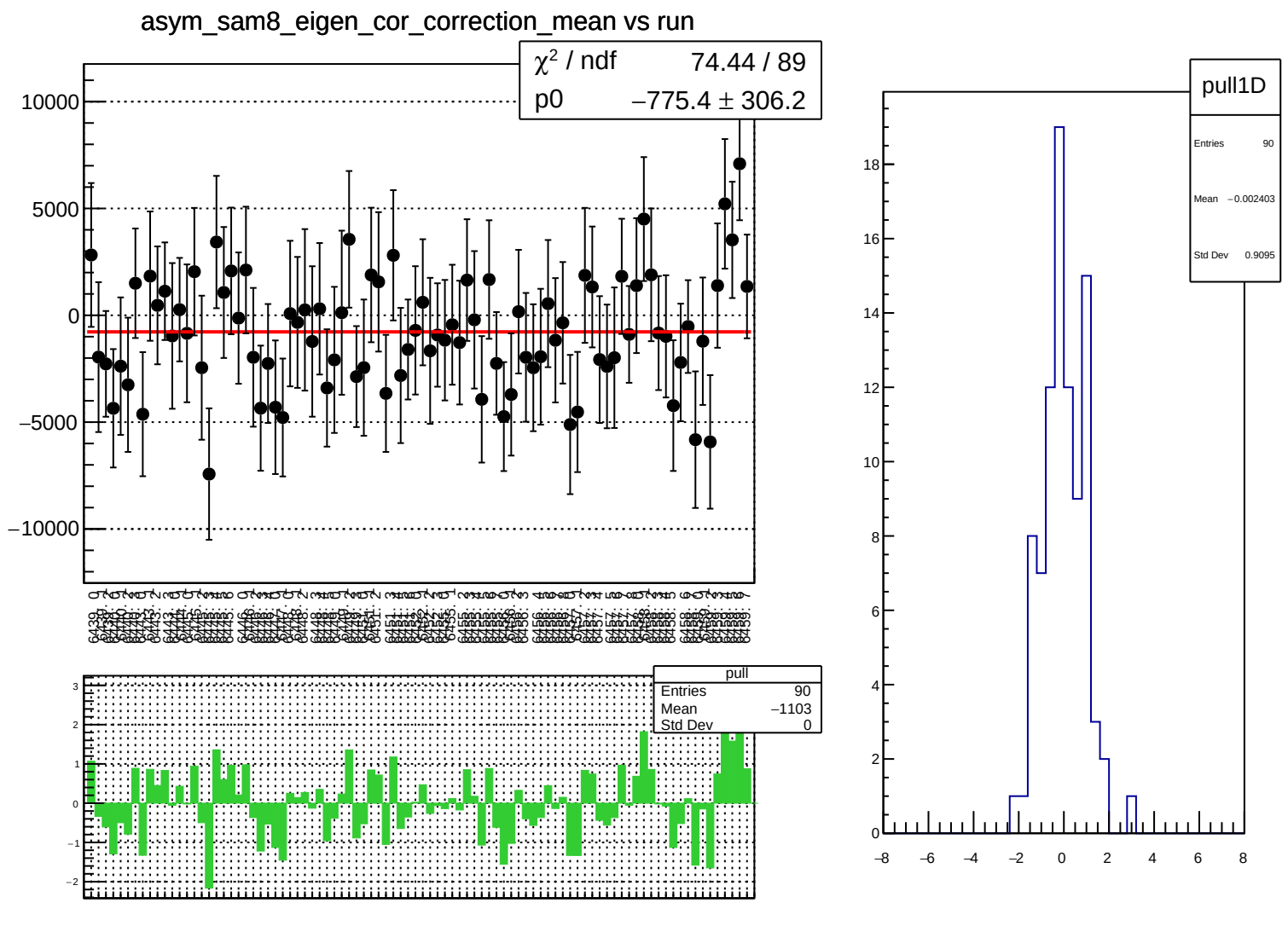

pull1D
Entries 90
Mean −0.002403
Std Dev 0.9095
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

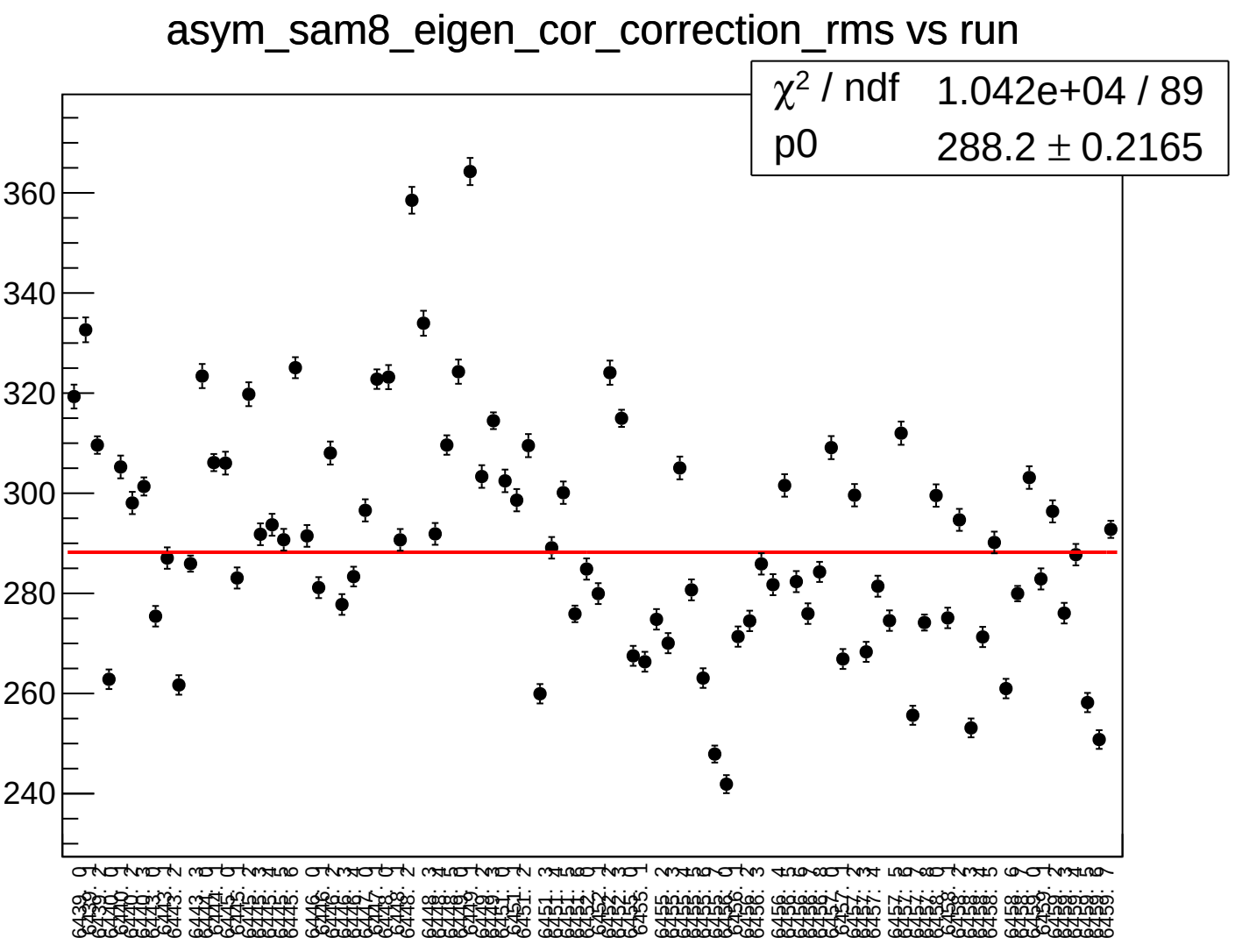

asym_sam8_cor_correction_rms vs run
χ² / ndf 1.042e+04 / 89
p0 288.2 ± 0.2165
360
340
320
300
280
260
240

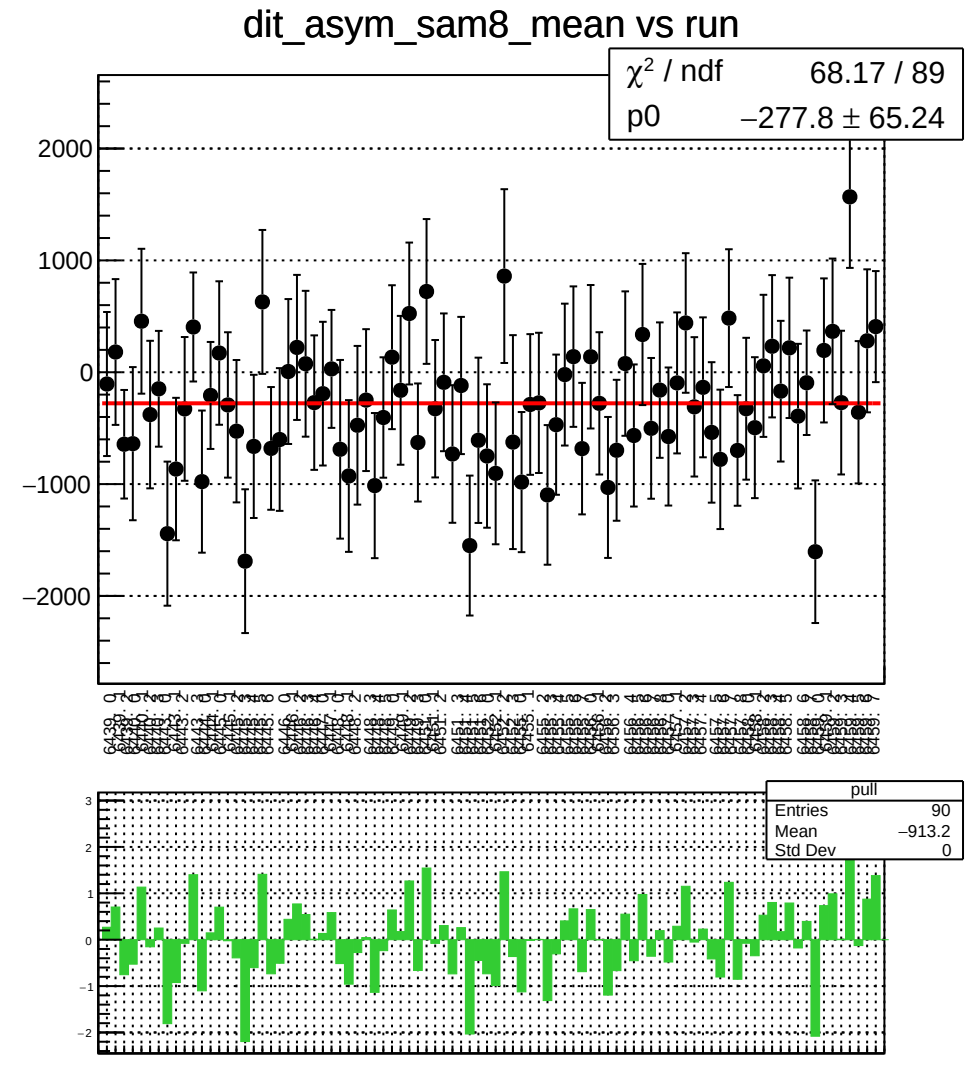

eigen_cor_asym_sam8_mean vs run
χ² / ndf 71.63 / 89
p0 −320.3 ± 58.58
pull
Entries 90
Mean −269.3
Std Dev 0

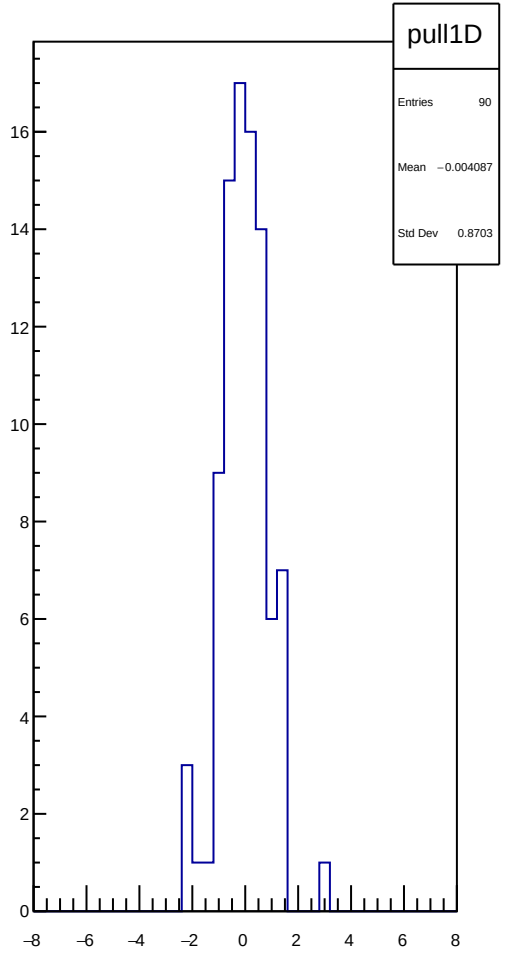

pull1D
Entries 90
Mean −0.007261
Std Dev 0.8921

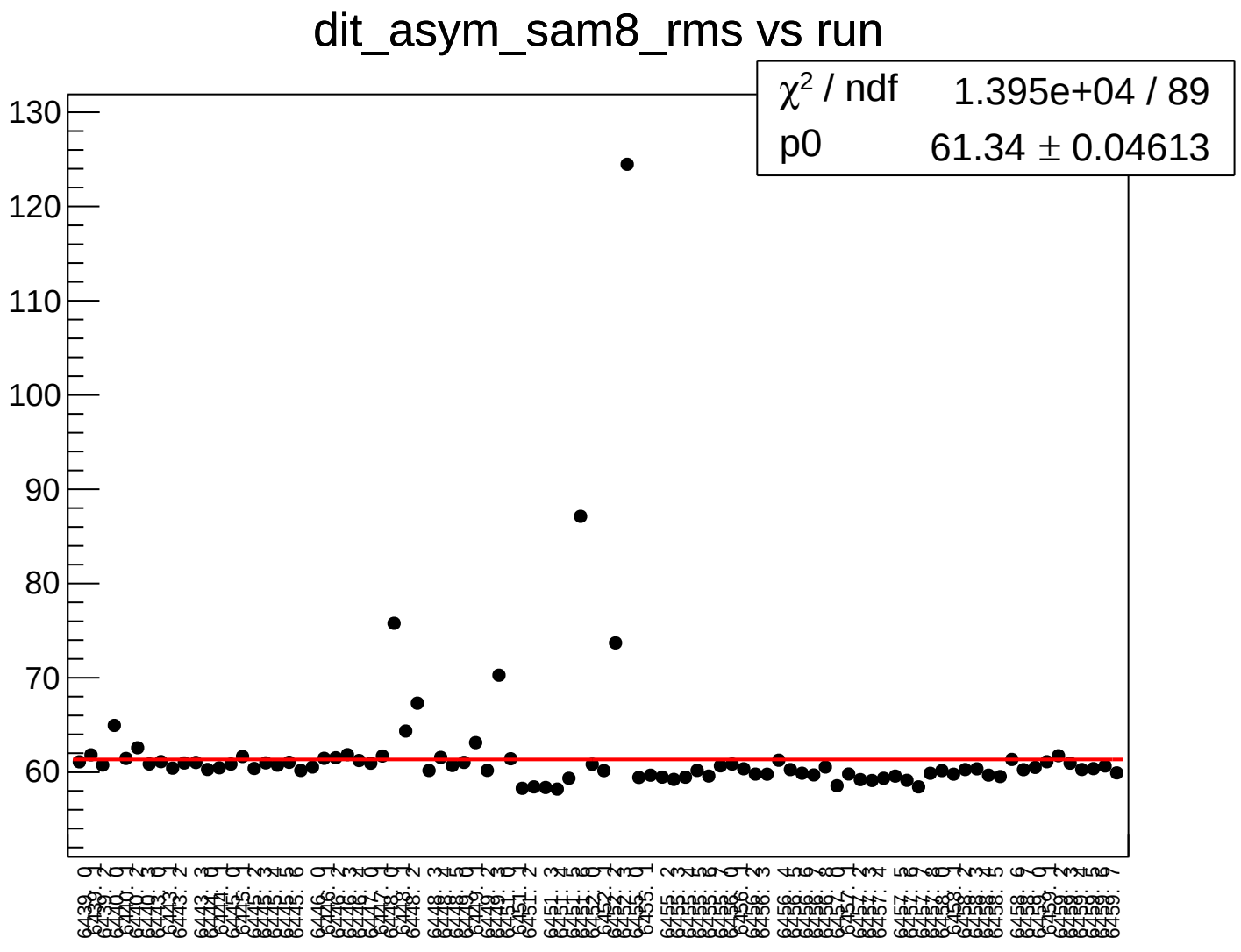

eigen_cor_asym_sam8_rms vs run
χ² / ndf 5280 / 89
p0 55.22 ± 0.04142
75
70
65
60
55
50

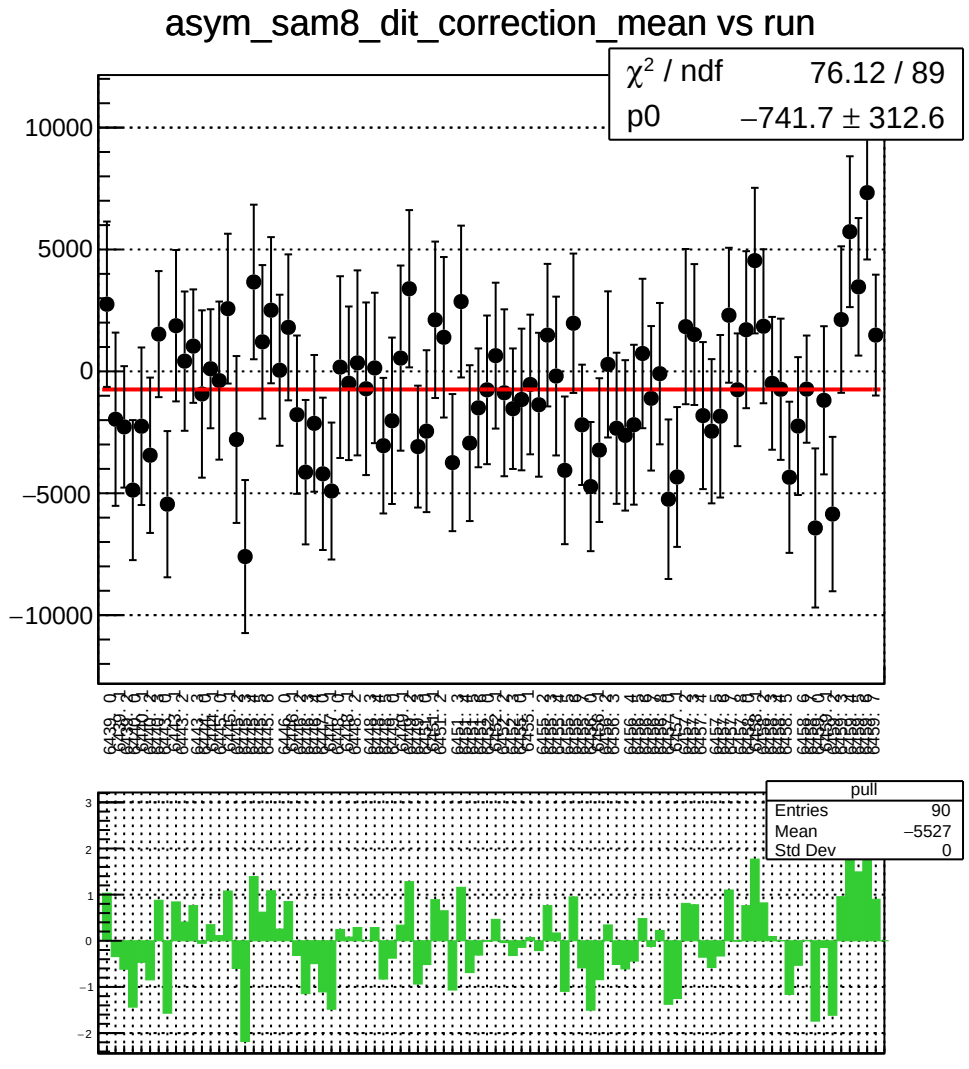

asym_sam8_eigen_cor_correction_mean vs run
χ² / ndf 74.44 / 89
p0 −775.4 ± 306.2
10000
5000
0
−5000
−10000
pull
Entries 90
Mean −1103
Std Dev 0
pull1D
Entries 90
Mean −0.002403
Std Dev 0.9095

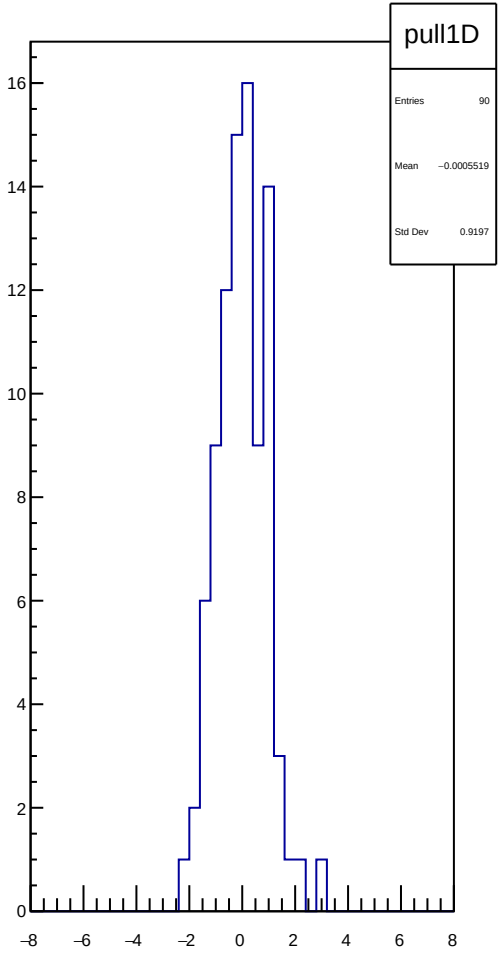

asym_sam8_eigen_cor_correction_rms vs run
χ² / ndf 1.042e+04 / 89
p0 288.2 ± 0.2165
360
340
320
300
280
260
240

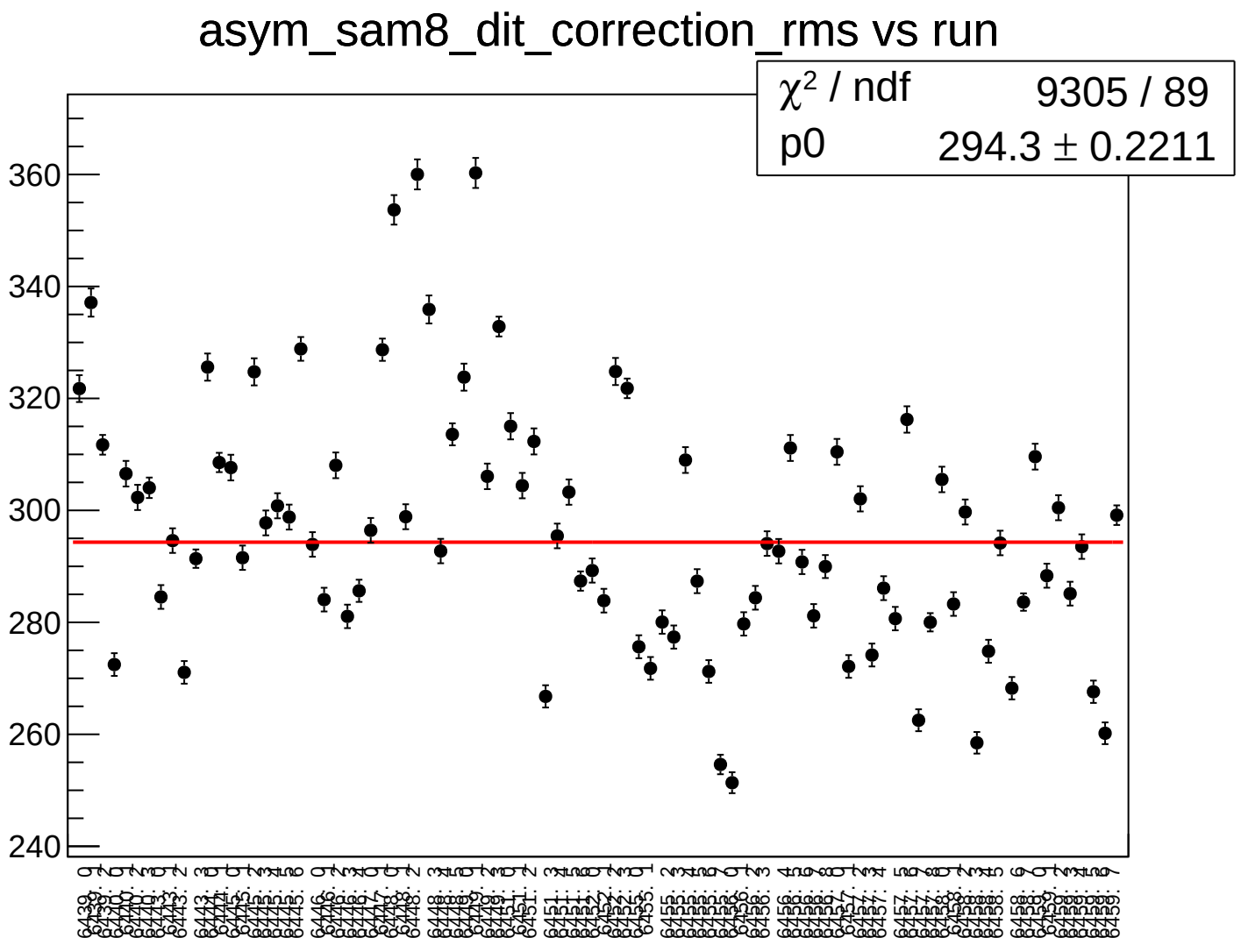

dit_asym_sam8_mean vs run
χ² / ndf 68.17 / 89
p0 −277.8 ± 65.24
2000
1000
0
−1000
−2000
pull
Entries 90
Mean −913.2
Std Dev 0
3
2
1
0
−1
−2

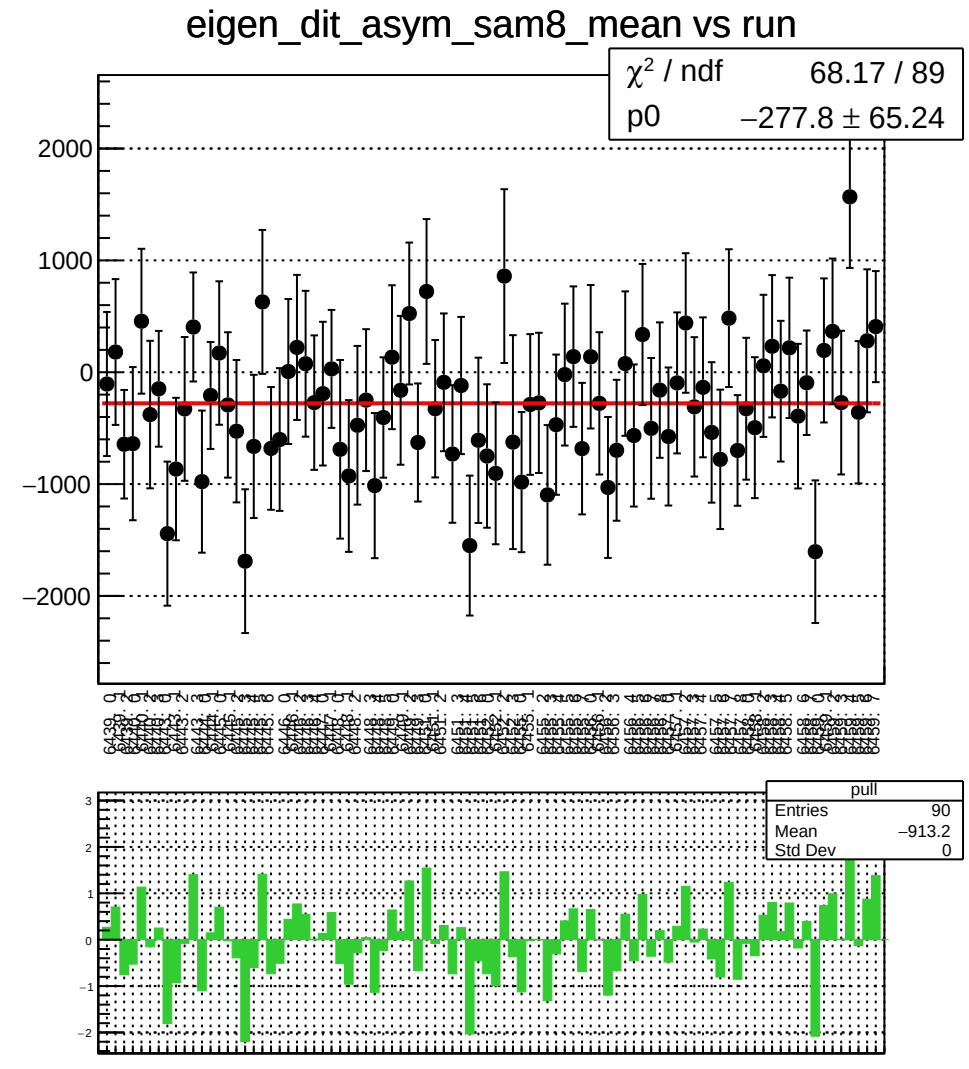

pull1D
Entries 90
Mean −0.004087
Std Dev 0.8703
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

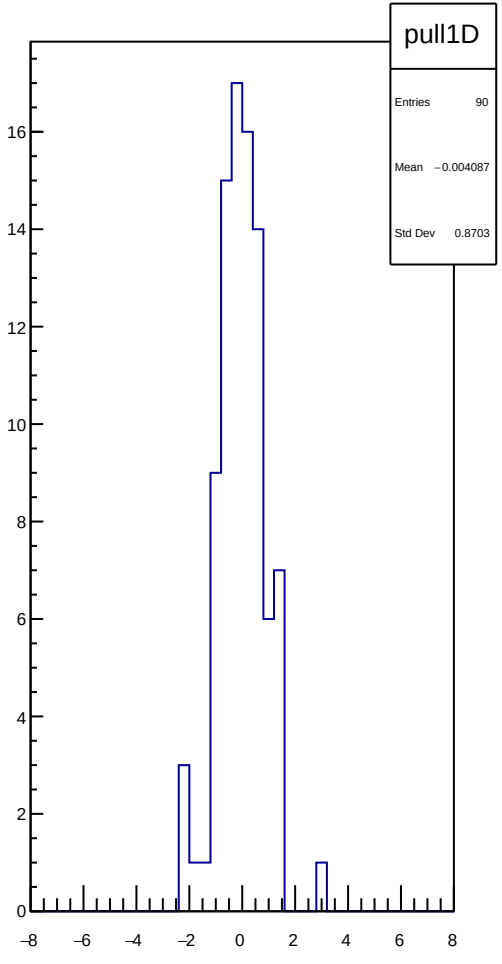

dit_asym_sam8_rms vs run
χ^2 / ndf 1.395e+04 / 89
p0 61.34 ± 0.04613
130
120
110
100
90
80
70
60

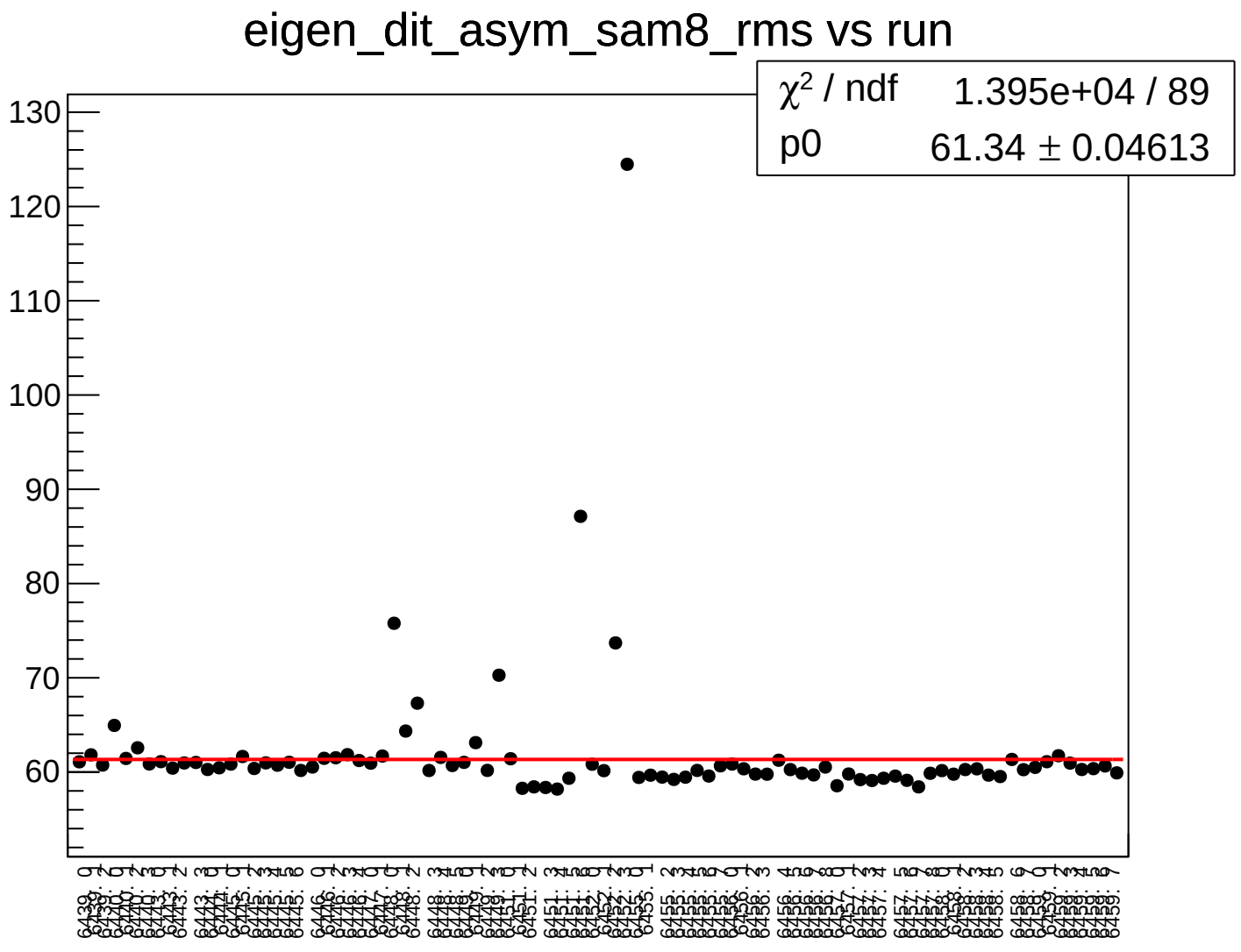

asym_sam8_dit_correction_mean vs run
χ² / ndf 76.12 / 89
p0 −741.7 ± 312.6
10000
5000
0
−5000
−10000
pull
Entries 90
Mean −5527
Std Dev 0
3
2
1
0
−1
−2

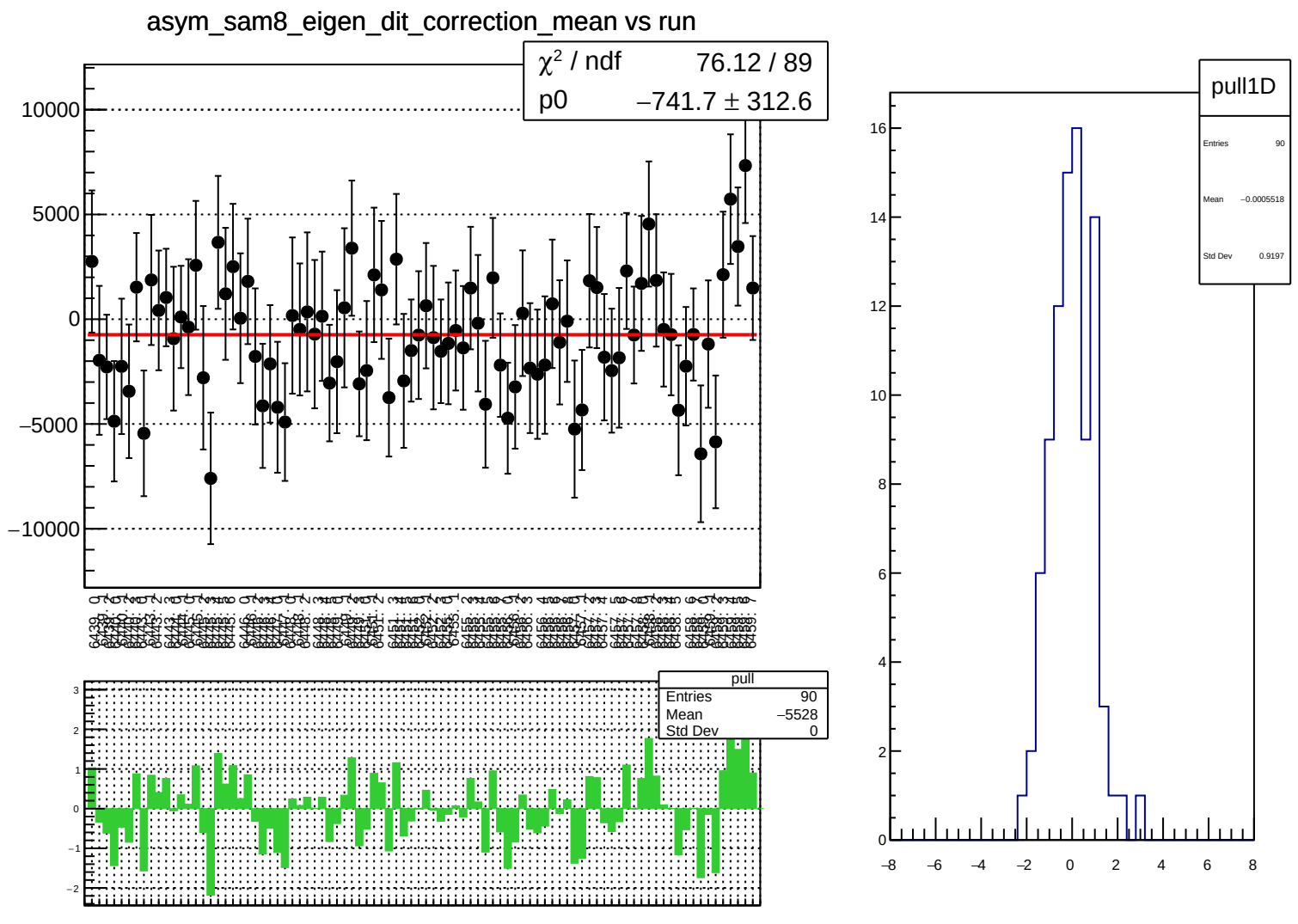

pull1D
Entries 90
Mean −0.0005519
Std Dev 0.9197
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

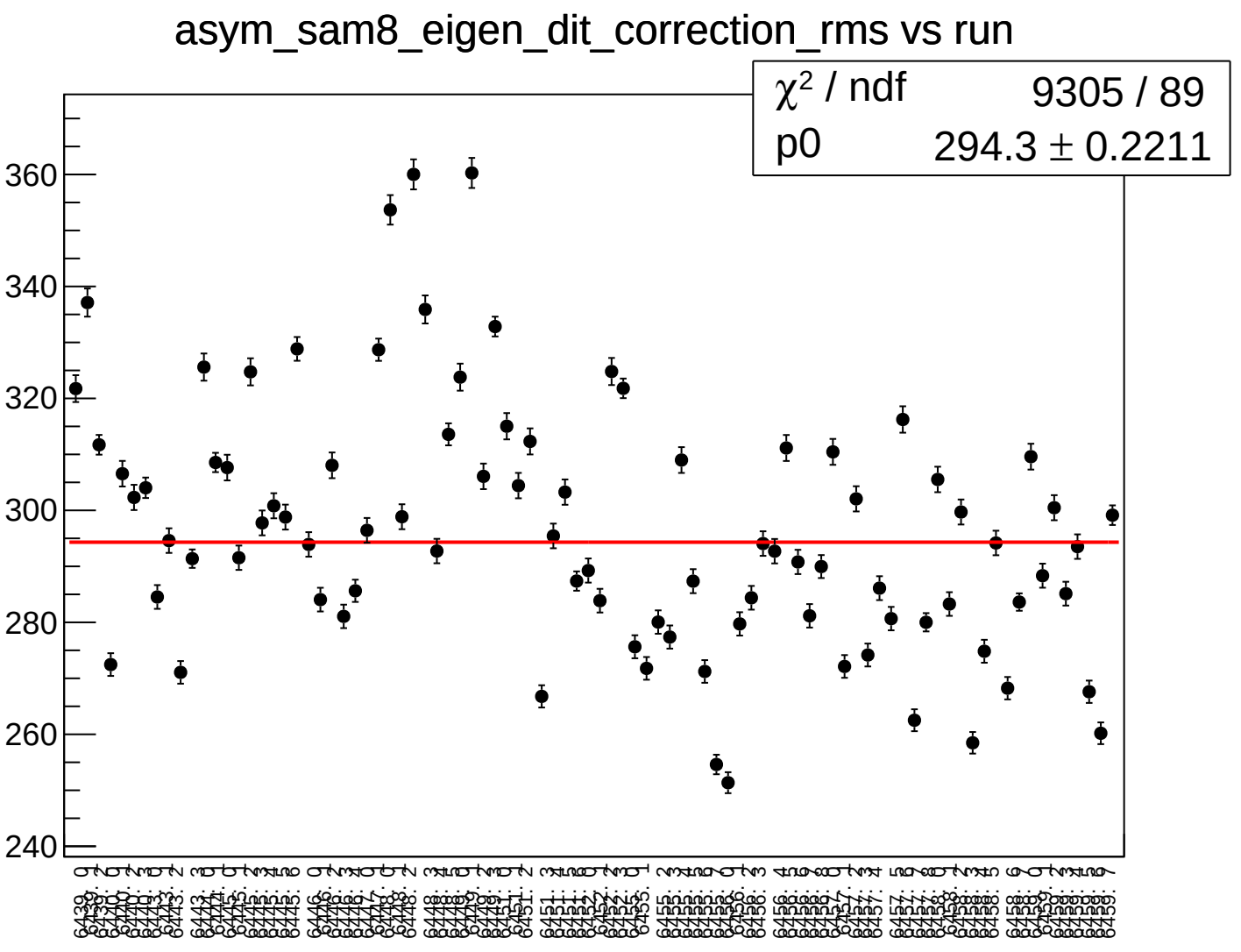

asym_sam8_dit_correction_rms vs run
χ² / ndf 9305 / 89
p0 294.3 ± 0.2211
360
340
320
300
280
260
240

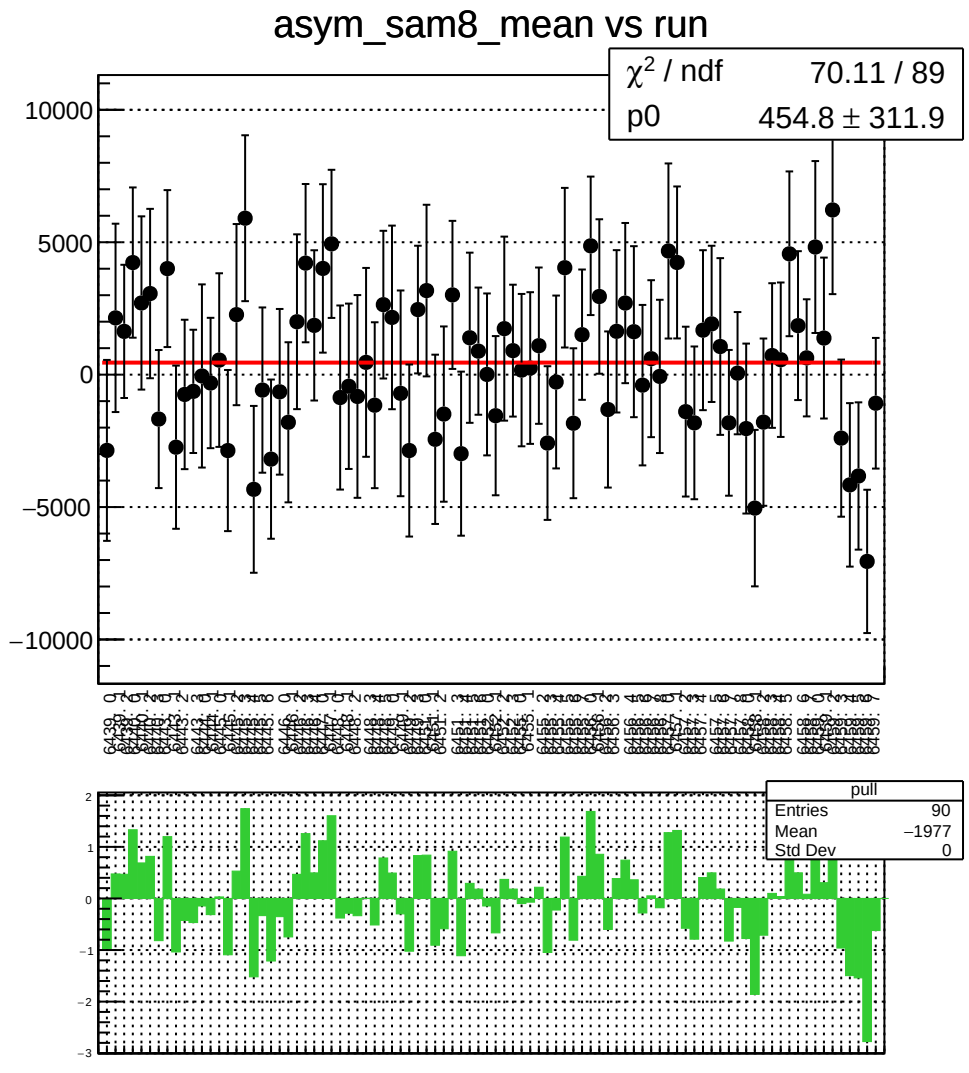

eigen_dit_asym_sam8_mean vs run
χ² / ndf 68.17 / 89
p0 −277.8 ± 65.24
2000
1000
0
−1000
−2000
pull
Entries 90
Mean −913.2
Std Dev 0
3
2
1
0
−1
−2

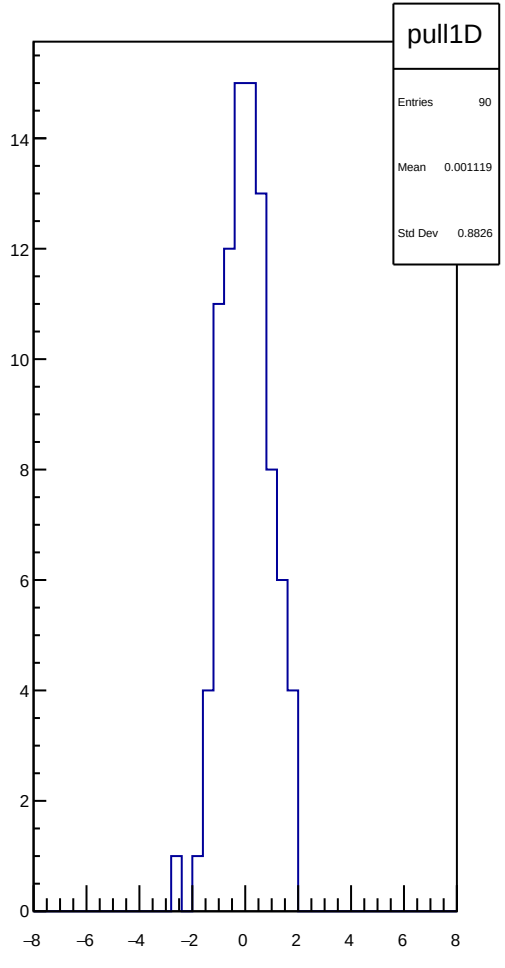

pull1D
Entries 90
Mean −0.004087
Std Dev 0.8703
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

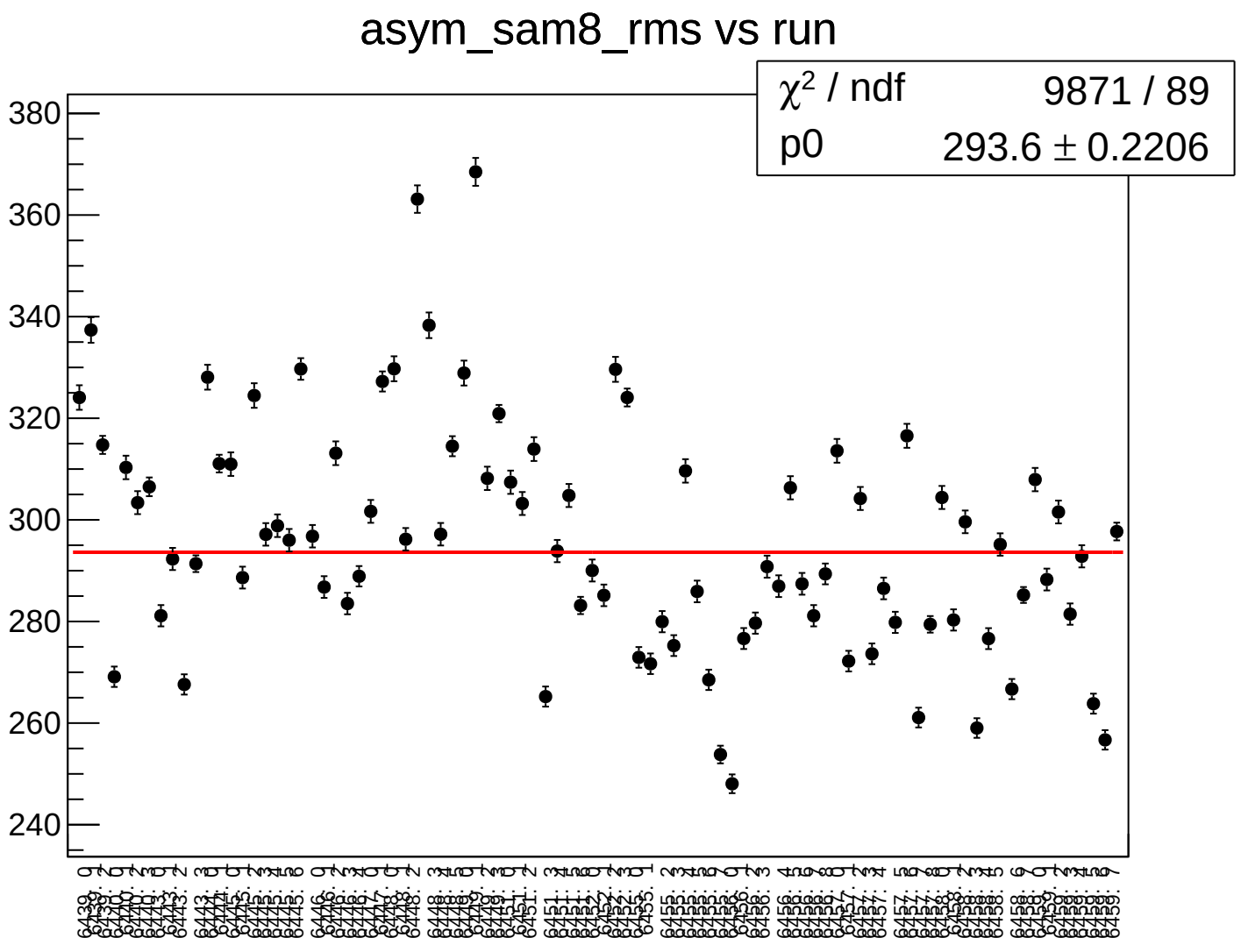

eigen_dit_asym_sam8_rms vs run
χ^2 / ndf 1.395e+04 / 89
p0 61.34 ± 0.04613
130
120
110
100
90
80
70
60

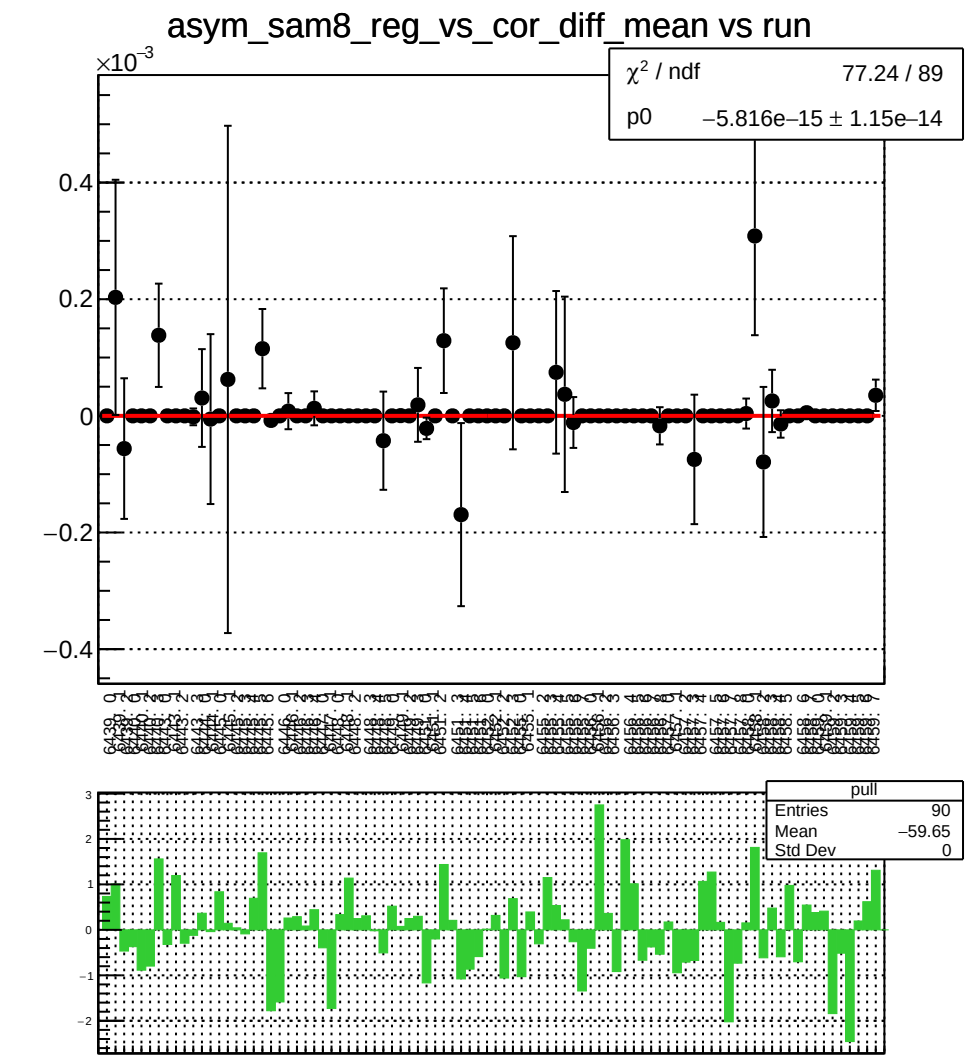

asym_sam8_eigen_dit_correction_mean vs run
χ² / ndf 76.12 / 89
p0 −741.7 ± 312.6
10000
5000
0
−5000
−10000
pull
Entries 90
Mean −5528
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.0005518
Std Dev 0.9197
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

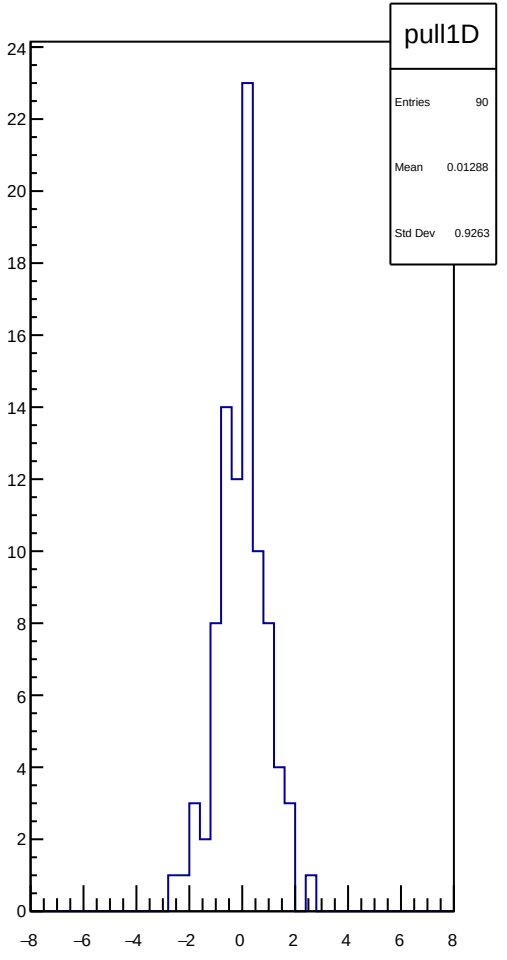

asym_sam8_eigen_dit_correction_rms vs run
χ² / ndf 9305 / 89
p0 294.3 ± 0.2211
360
340
320
300
280
260
240

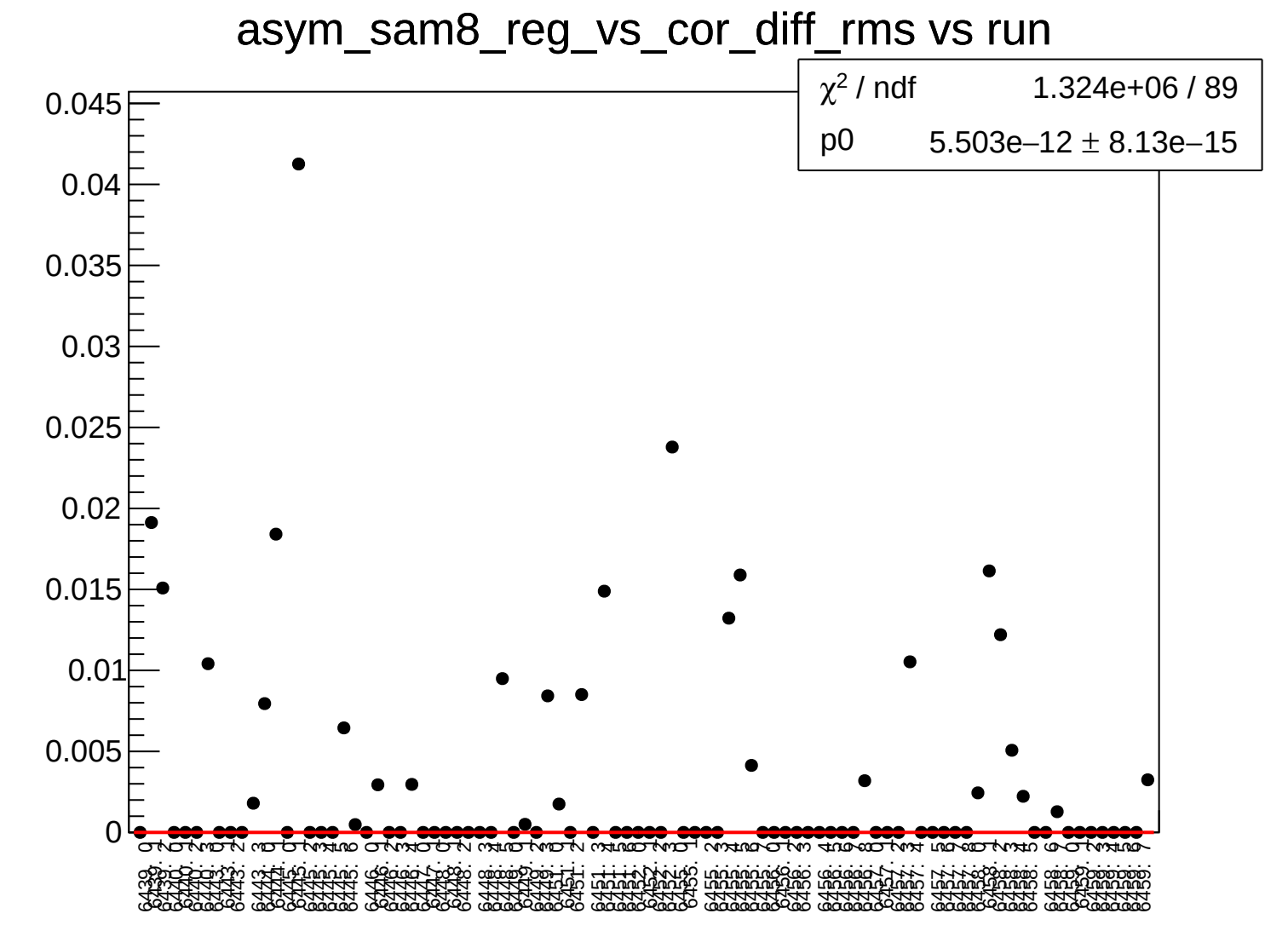

asym_sam8_mean vs run
χ² / ndf 70.11 / 89
p0 454.8 ± 311.9
10000
5000
0
−5000
−10000
pull
Entries 90
Mean −1977
Std Dev 0
2
1
0
−1
−2
−3

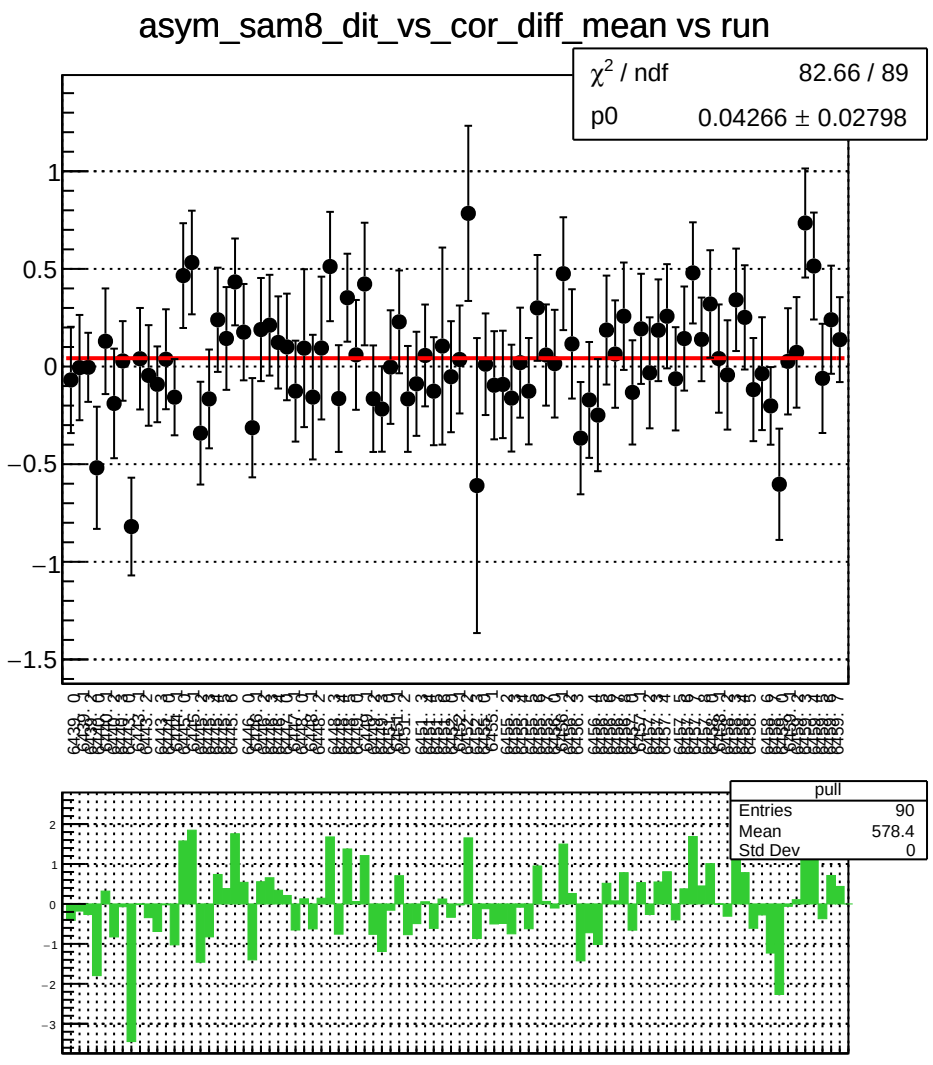

pull1D
Entries 90
Mean 0.001119
Std Dev 0.8826
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

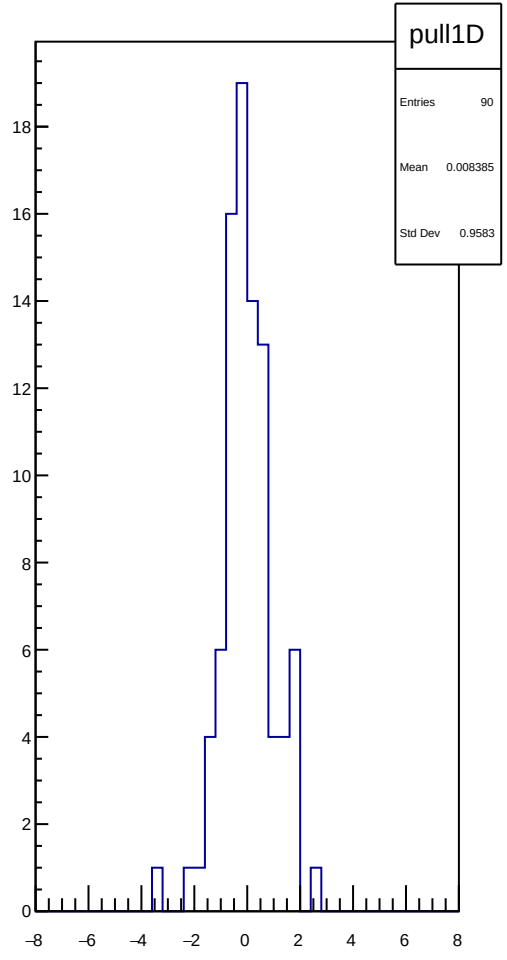

asym_sam8_rms vs run
χ^2 / ndf 9871 / 89
p0 293.6 ± 0.2206
380
360
340
320
300
280
260
240

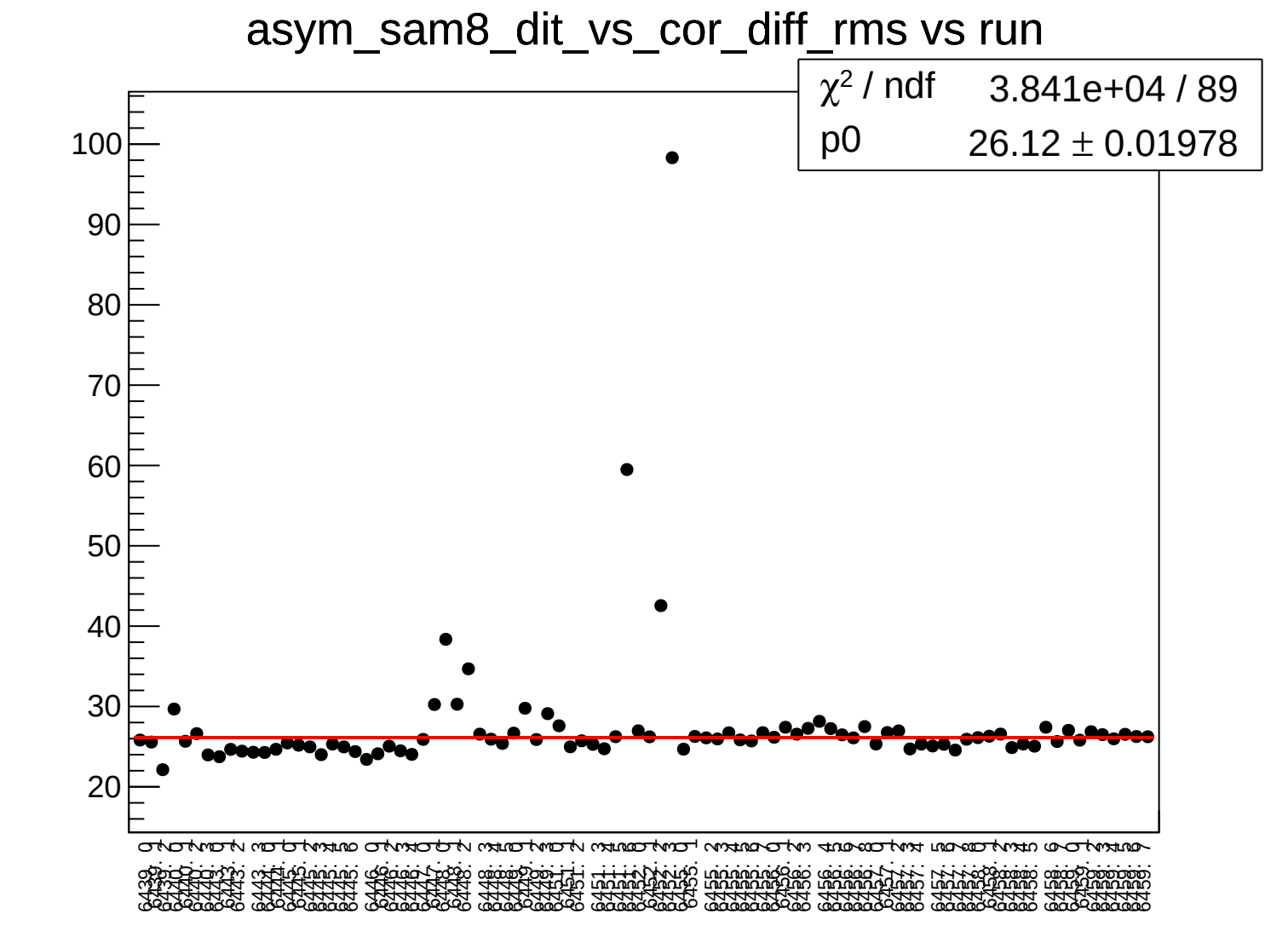

asym_sam8_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 77.24 / 89
p0 −5.816e−15 ± 1.15e−14
0.4
0.2
0
−0.2
−0.4
pull
Entries 90
Mean −59.65
Std Dev 0
3
2
1
0
−1
−2

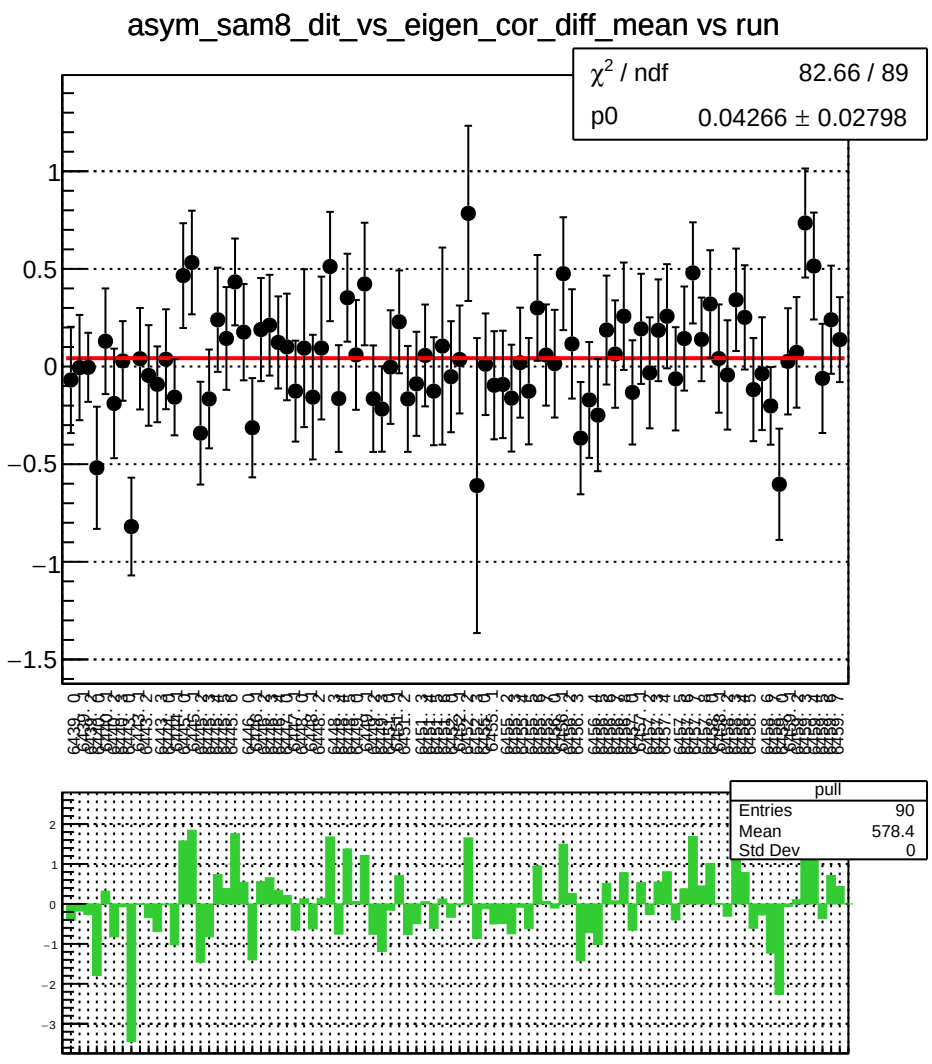

pull1D
Entries 90
Mean 0.01288
Std Dev 0.9263
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

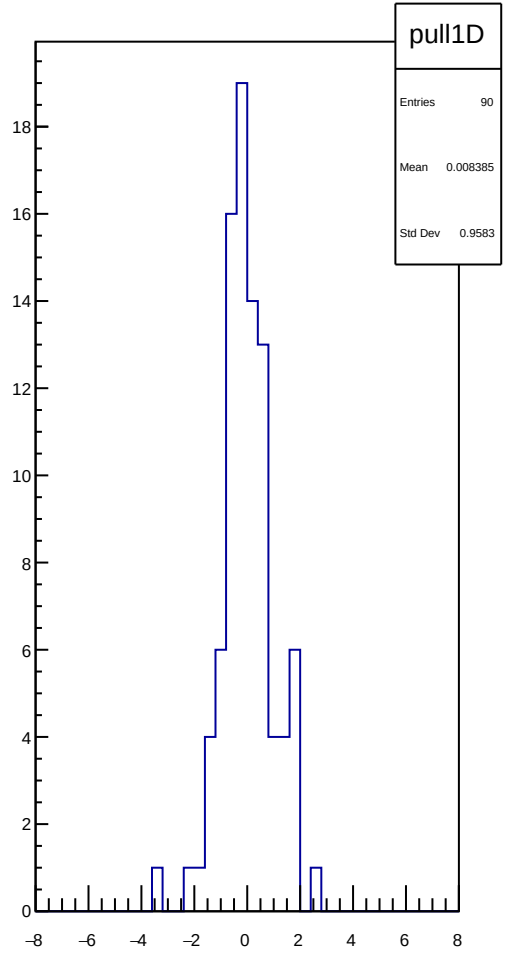

asym_sam8_reg_vs_cor_diff_rms vs run
χ² / ndf 1.324e+06 / 89
p0 5.503e−12 ± 8.13e−15
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

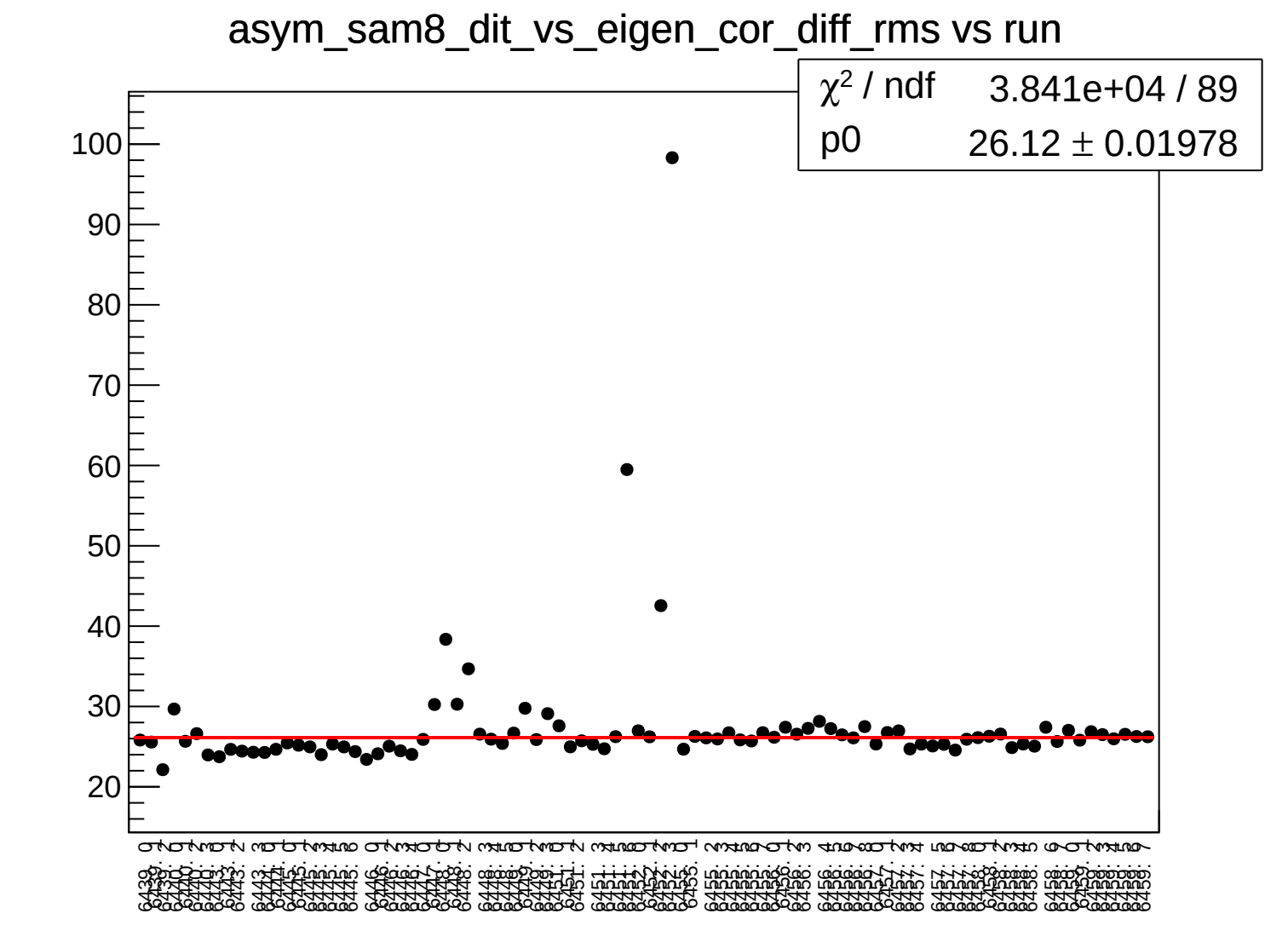

asym_sam8_dit_vs_cor_diff_mean vs run
χ² / ndf 82.66 / 89
p0 0.04266 ± 0.02798
pull
Entries 90
Mean 578.4
Std Dev 0

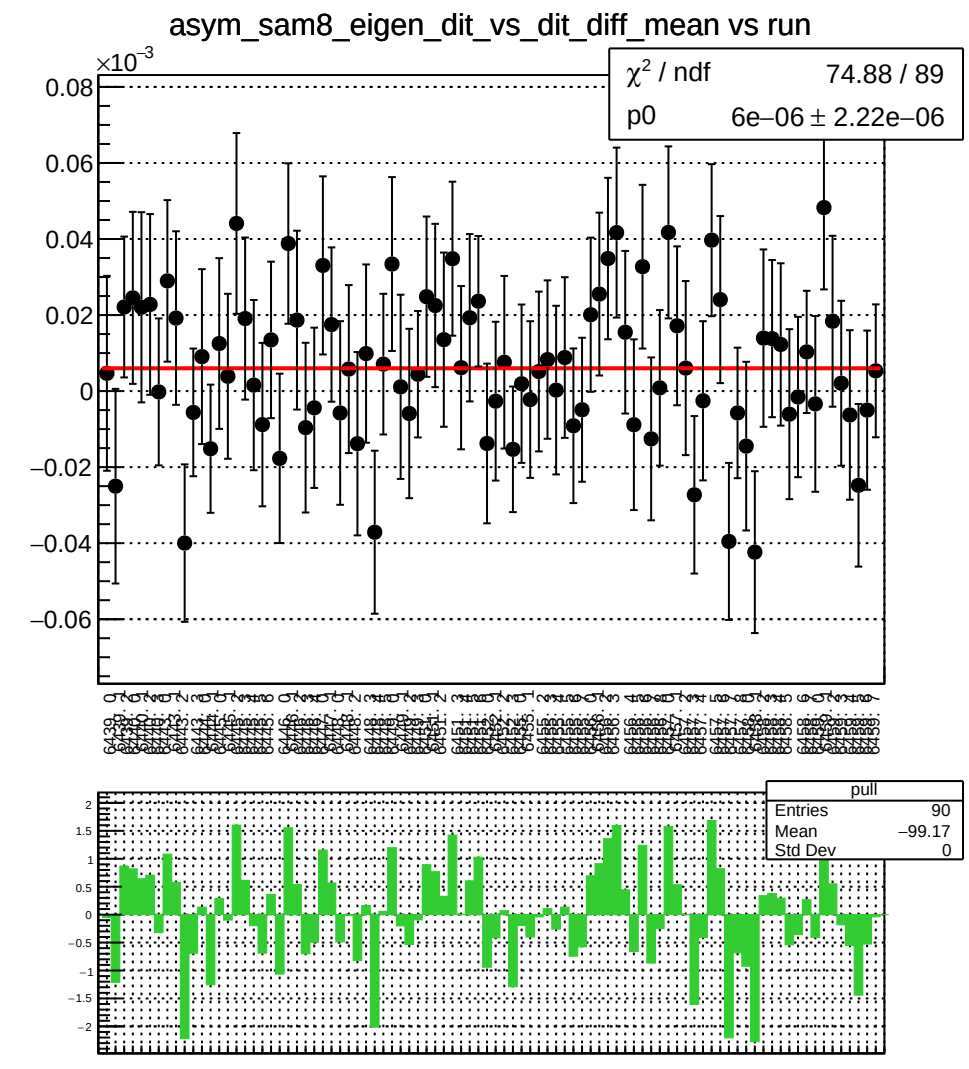

pull1D
Entries 90
Mean 0.008385
Std Dev 0.9583

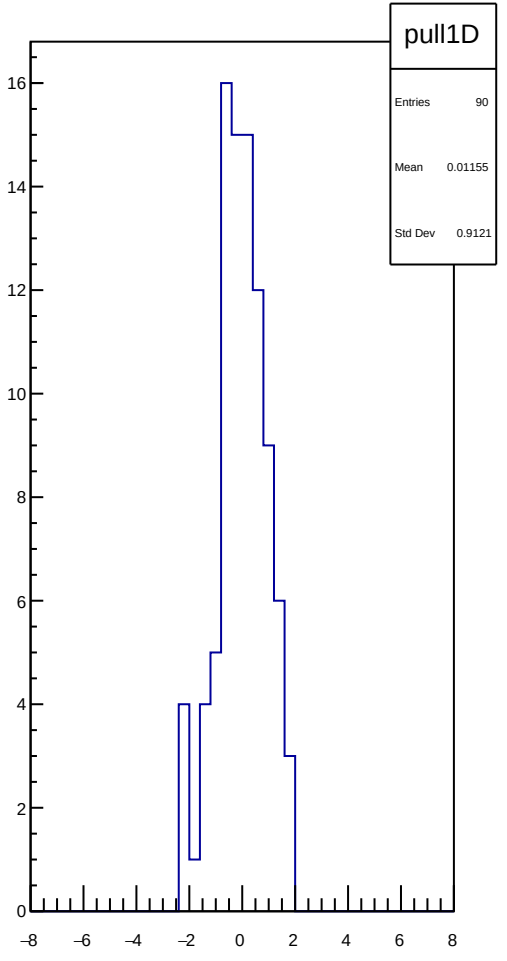

asym_sam8_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.841e+04 / 89
p0 26.12 ± 0.01978
100
90
80
70
60
50
40
30
20

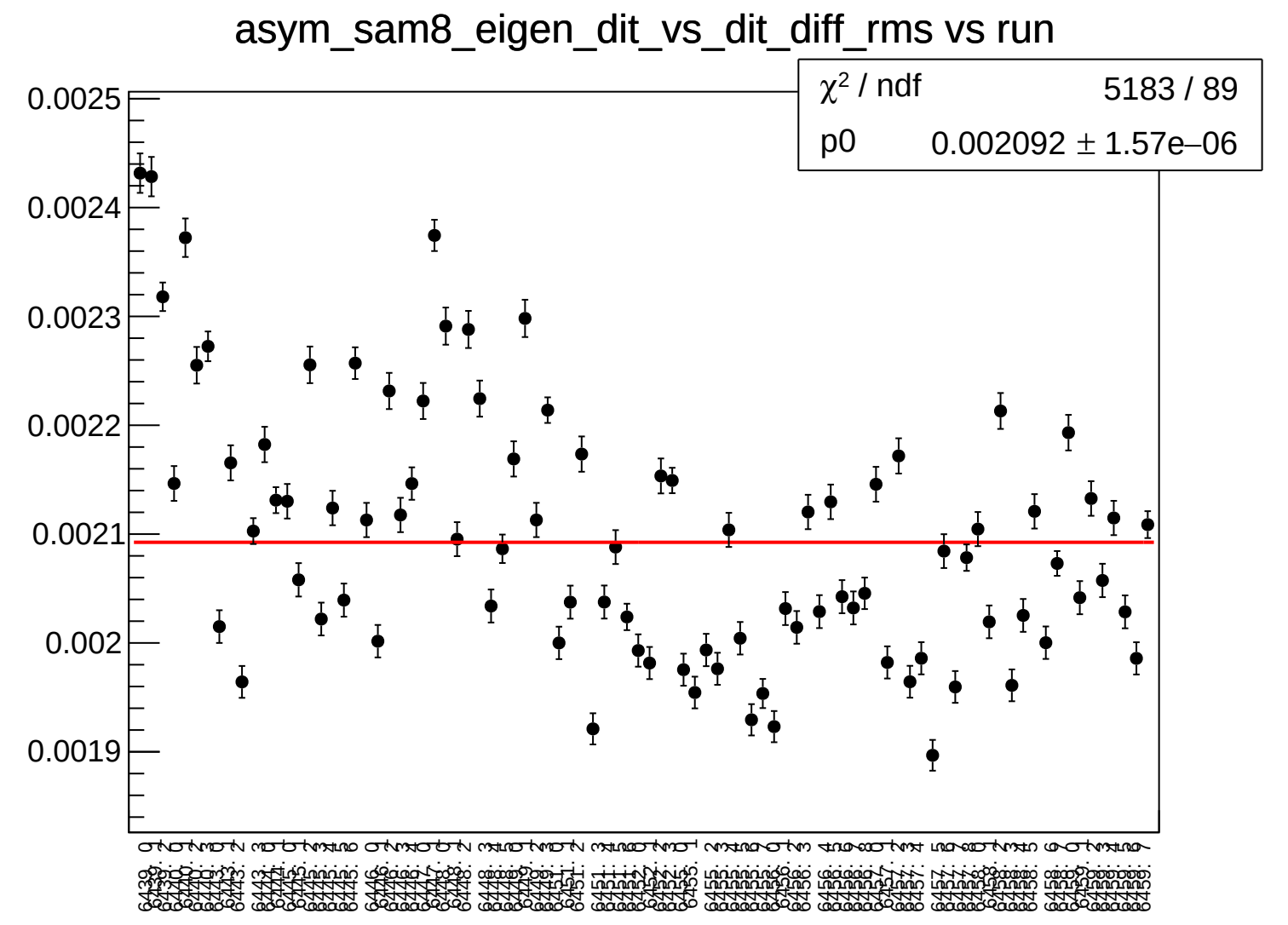

asym_sam8_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.66 / 89
p0 0.04266 ± 0.02798
pull
Entries 90
Mean 578.4
Std Dev 0

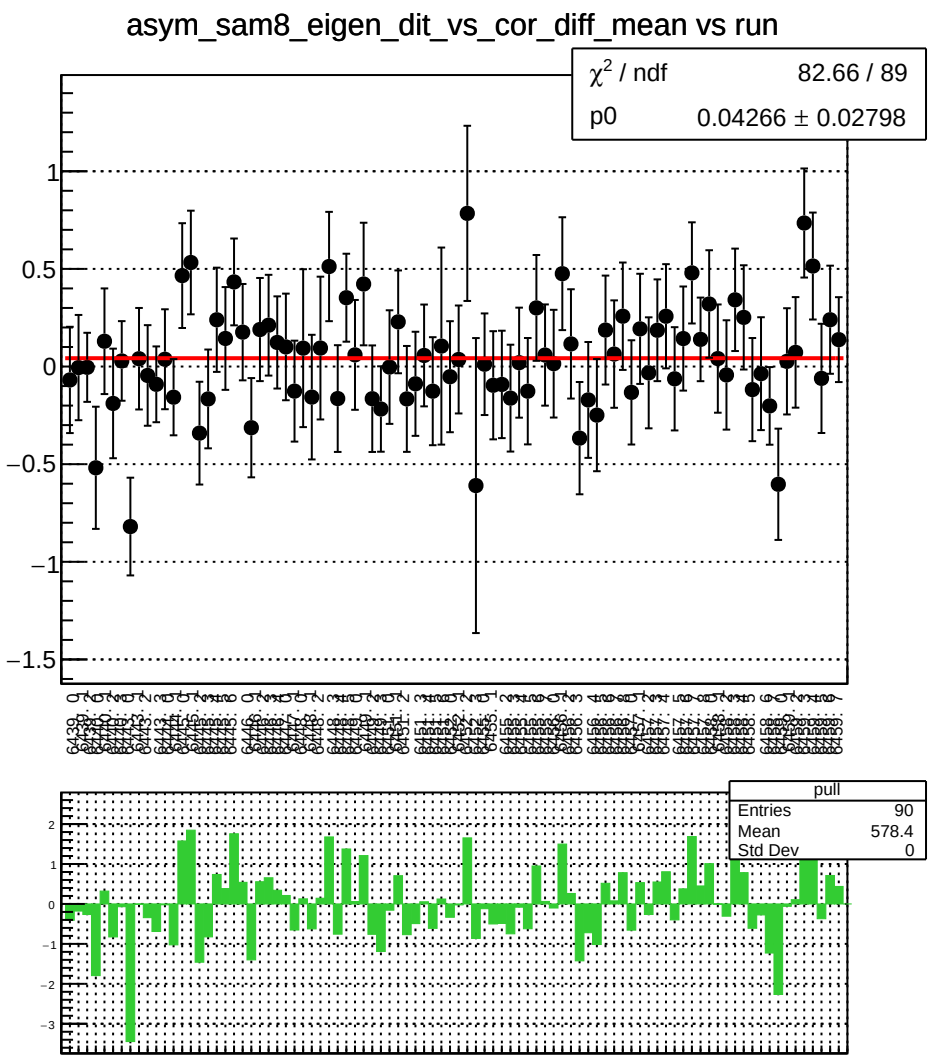

pull1D
Entries 90
Mean 0.008385
Std Dev 0.9583

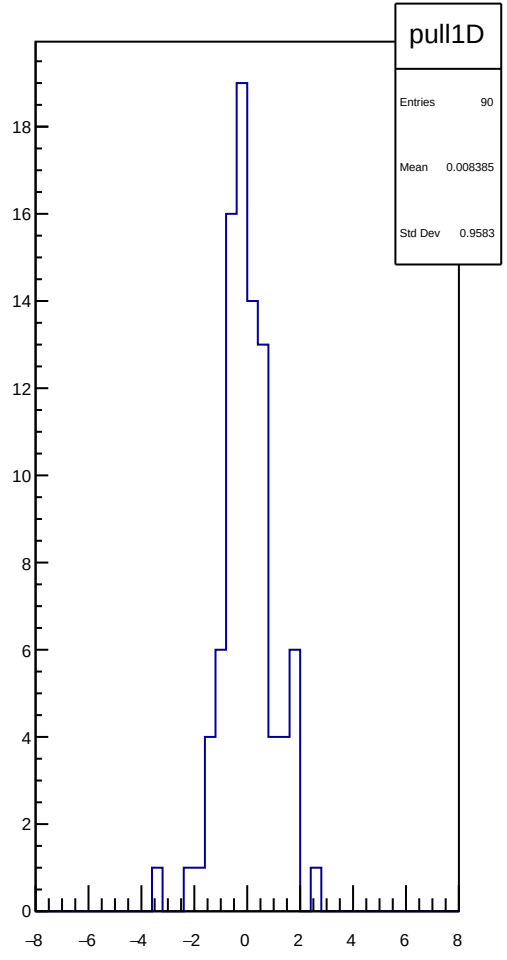

asym_sam8_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.841e+04 / 89
p0 26.12 ± 0.01978
100
90
80
70
60
50
40
30
20

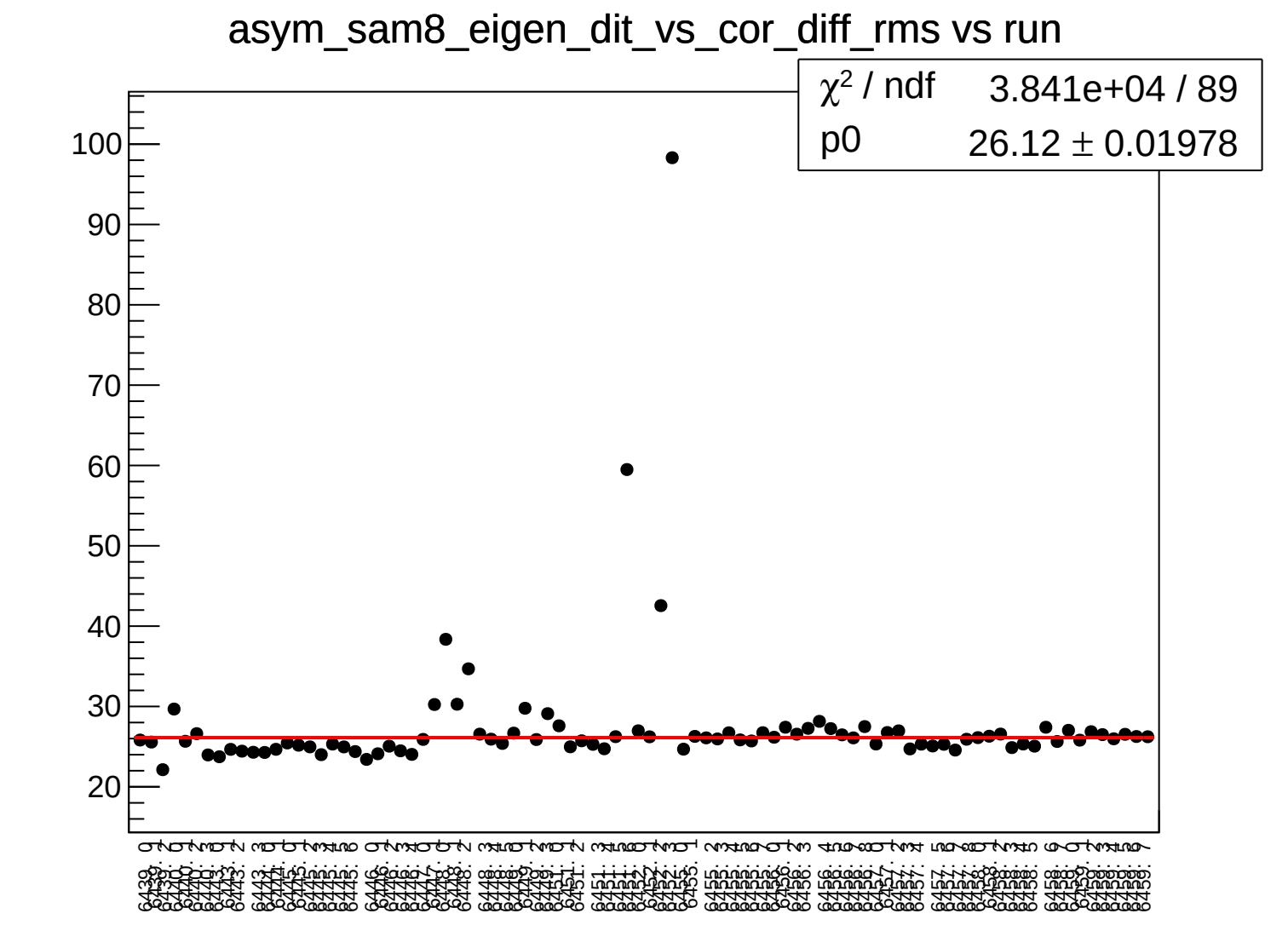

asym_sam8_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 74.88 / 89
p0 6e–06 ± 2.22e–06
0.08
0.06
0.04
0.02
0
–0.02
–0.04
–0.06
pull
Entries 90
Mean –99.17
Std Dev 0
2
1.5
1
0.5
0
–0.5
–1
–1.5
–2

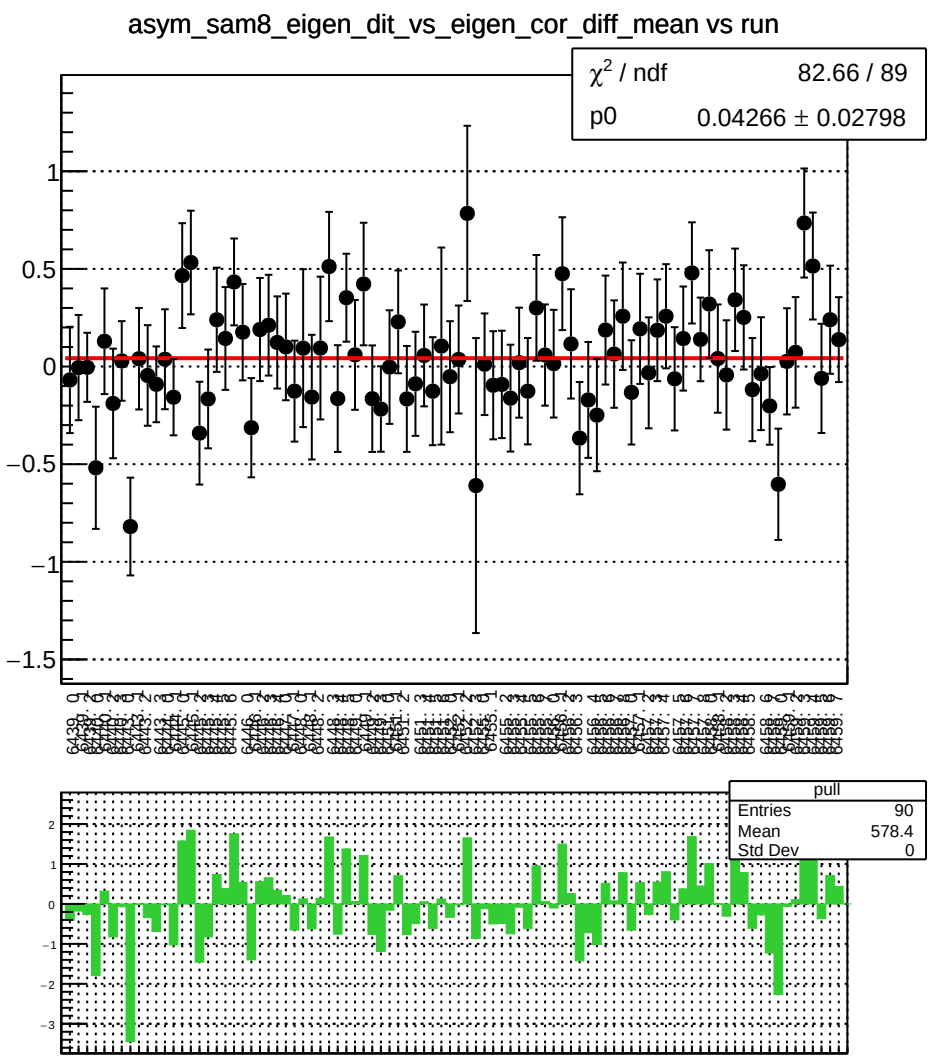

pull1D
Entries 90
Mean 0.01155
Std Dev 0.9121
16
14
12
10
8
6
4
2
0
–8
–6
–4
–2
0
2
4
6
8

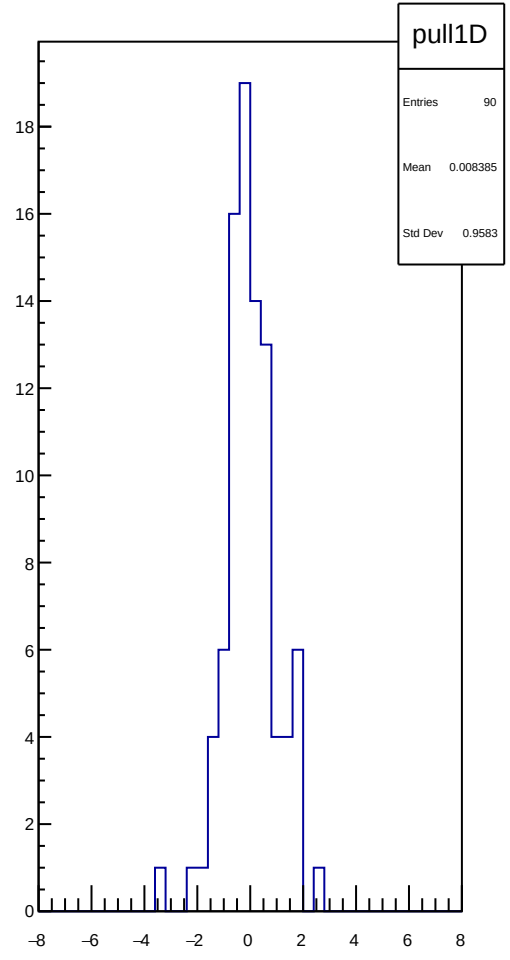

asym_sam8_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5183 / 89
p0 0.002092 ± 1.57e−06
0.0025
0.0024
0.0023
0.0022
0.0021
0.002
0.0019

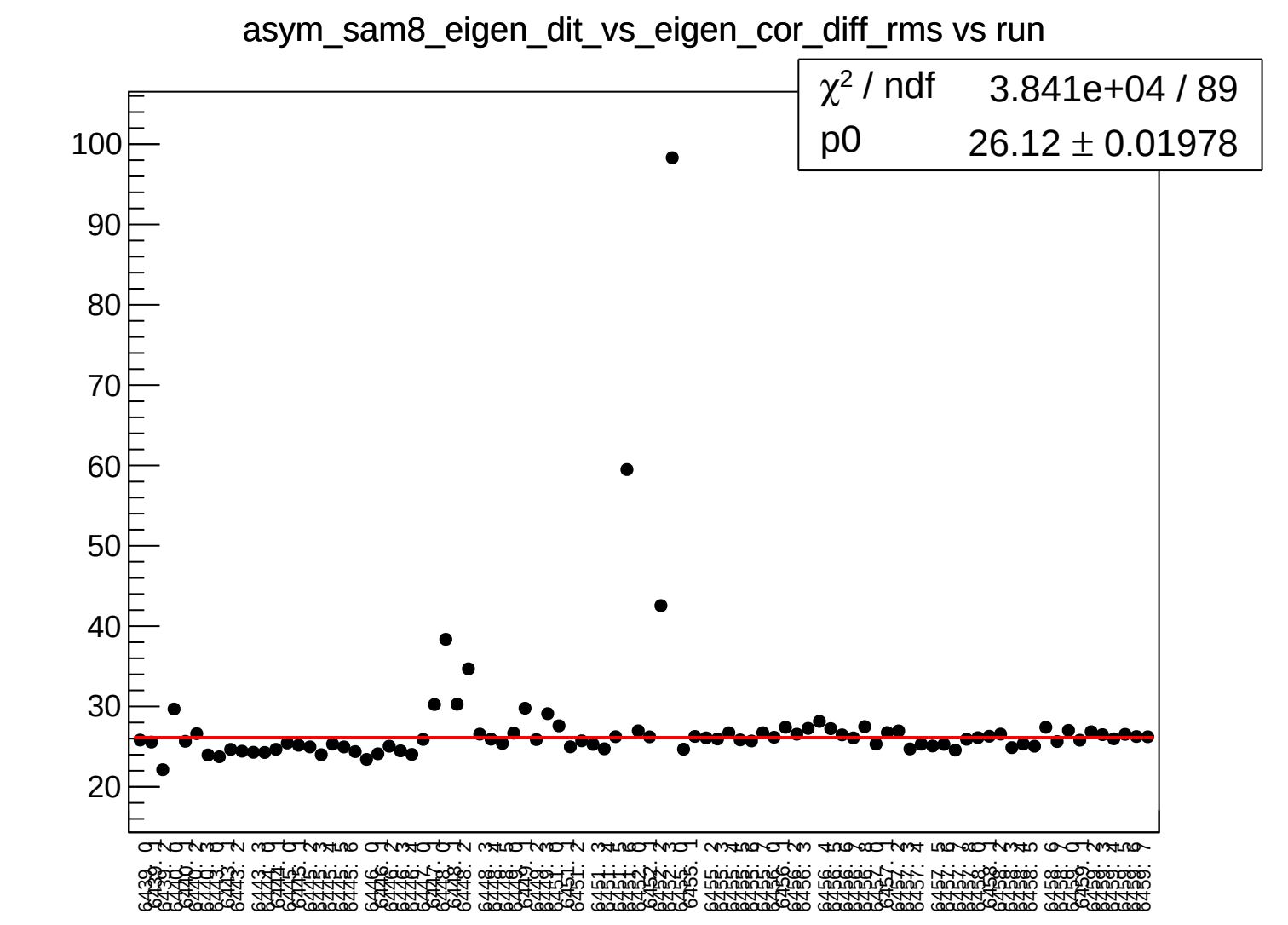

asym_sam8_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.66 / 89
p0 0.04266 ± 0.02798
pull
Entries 90
Mean 578.4
Std Dev 0

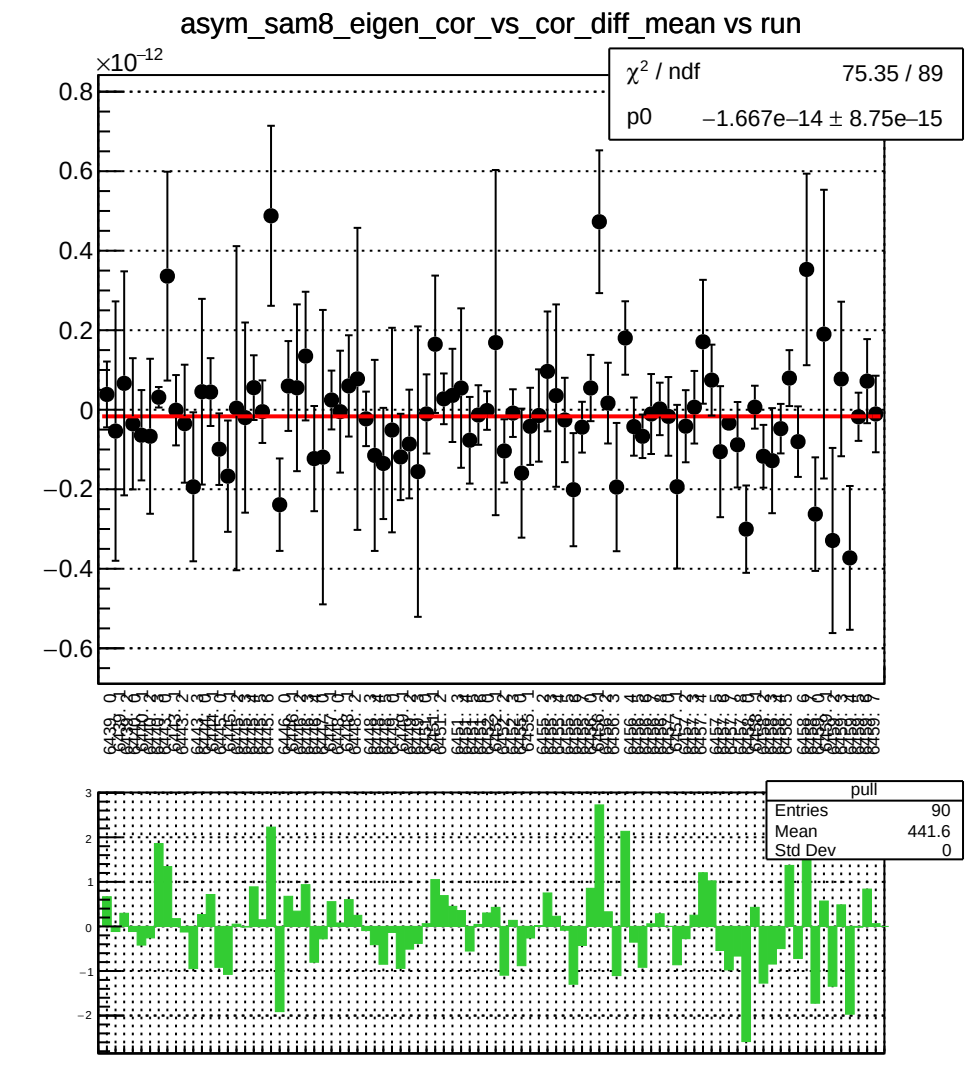

pull1D
Entries 90
Mean 0.008385
Std Dev 0.9583

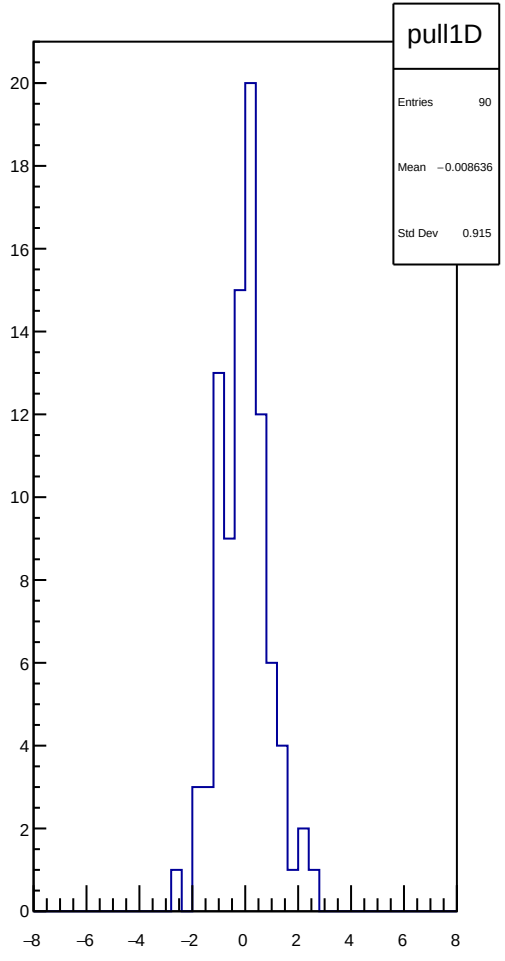

asym_sam8_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.841e+04 / 89
p0 26.12 ± 0.01978
100
90
80
70
60
50
40
30
20

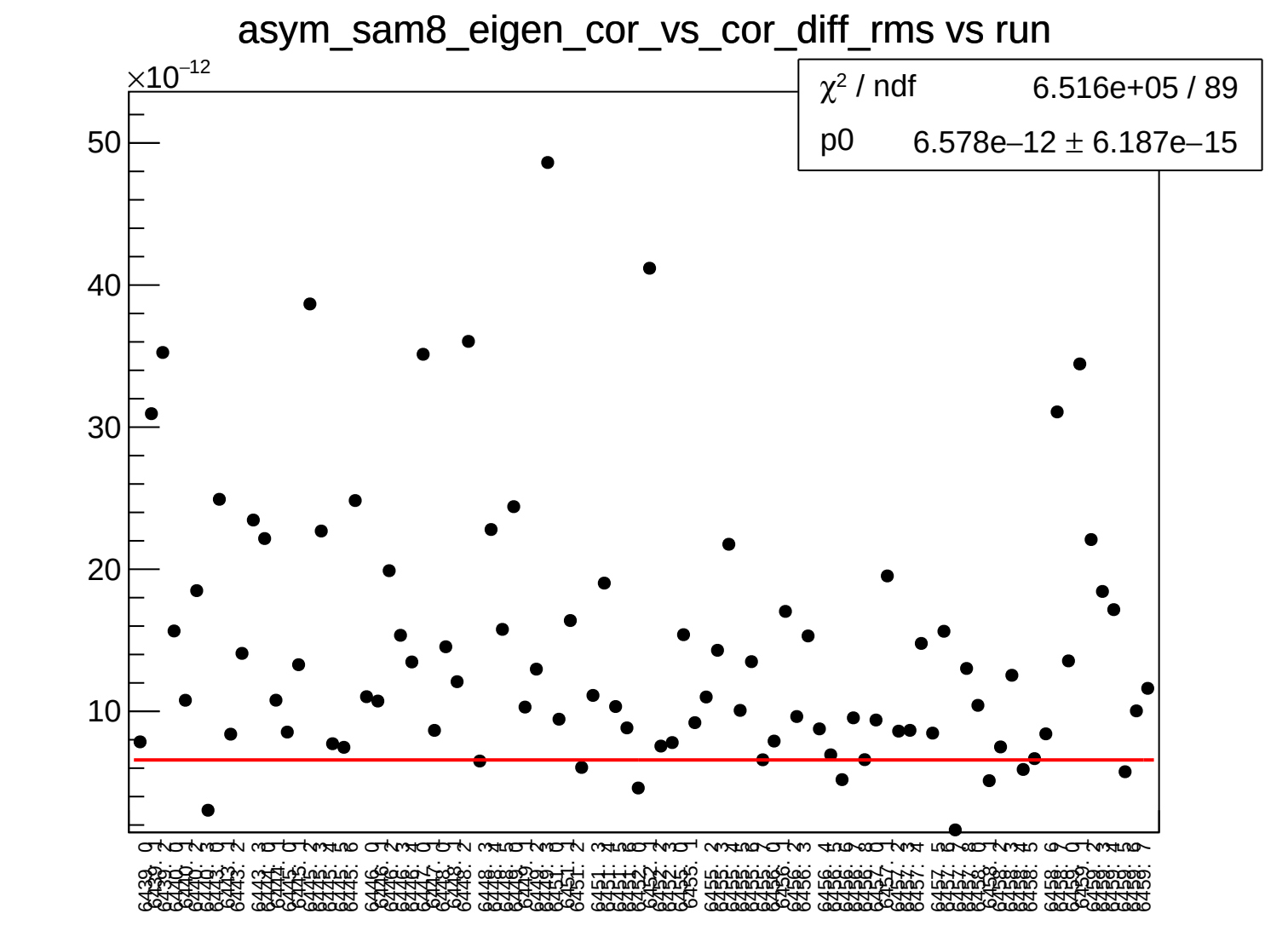

asym_sam8_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.66 / 89
p0 0.04266 ± 0.02798
pull
Entries 90
Mean 578.4
Std Dev 0

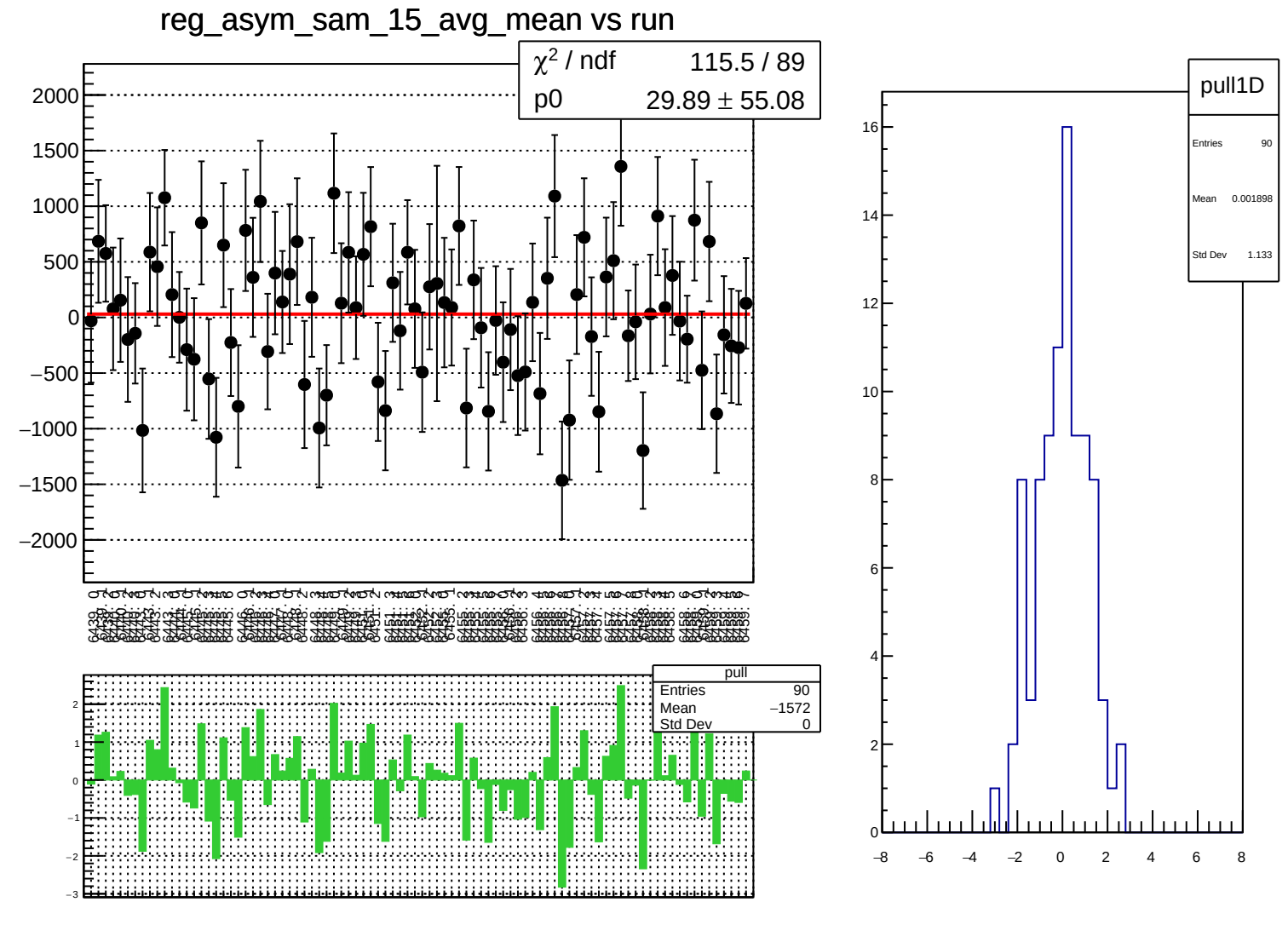

pull1D
Entries 90
Mean 0.008385
Std Dev 0.9583

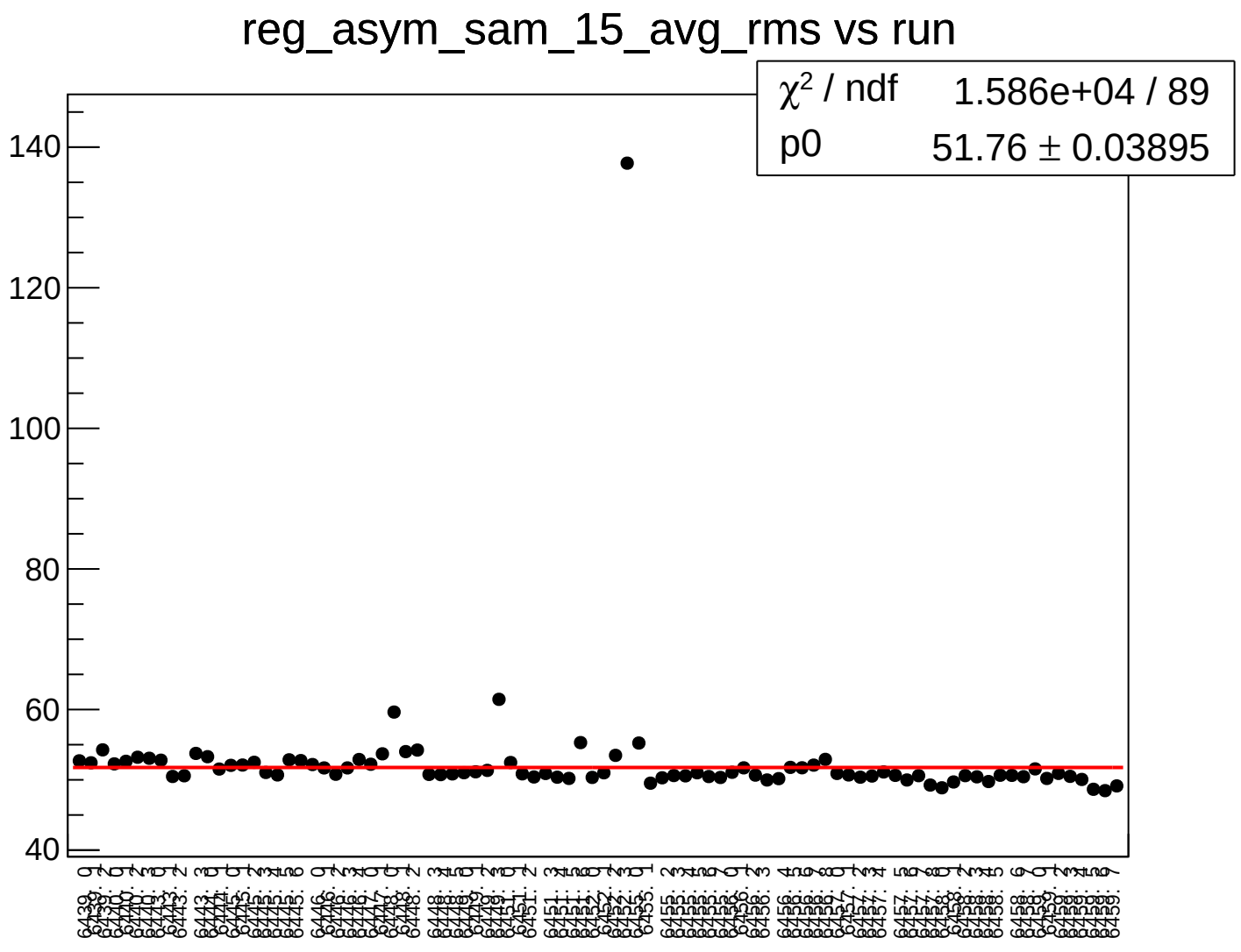

asym_sam8_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.841e+04 / 89
p0 26.12 ± 0.01978
100
90
80
70
60
50
40
30
20

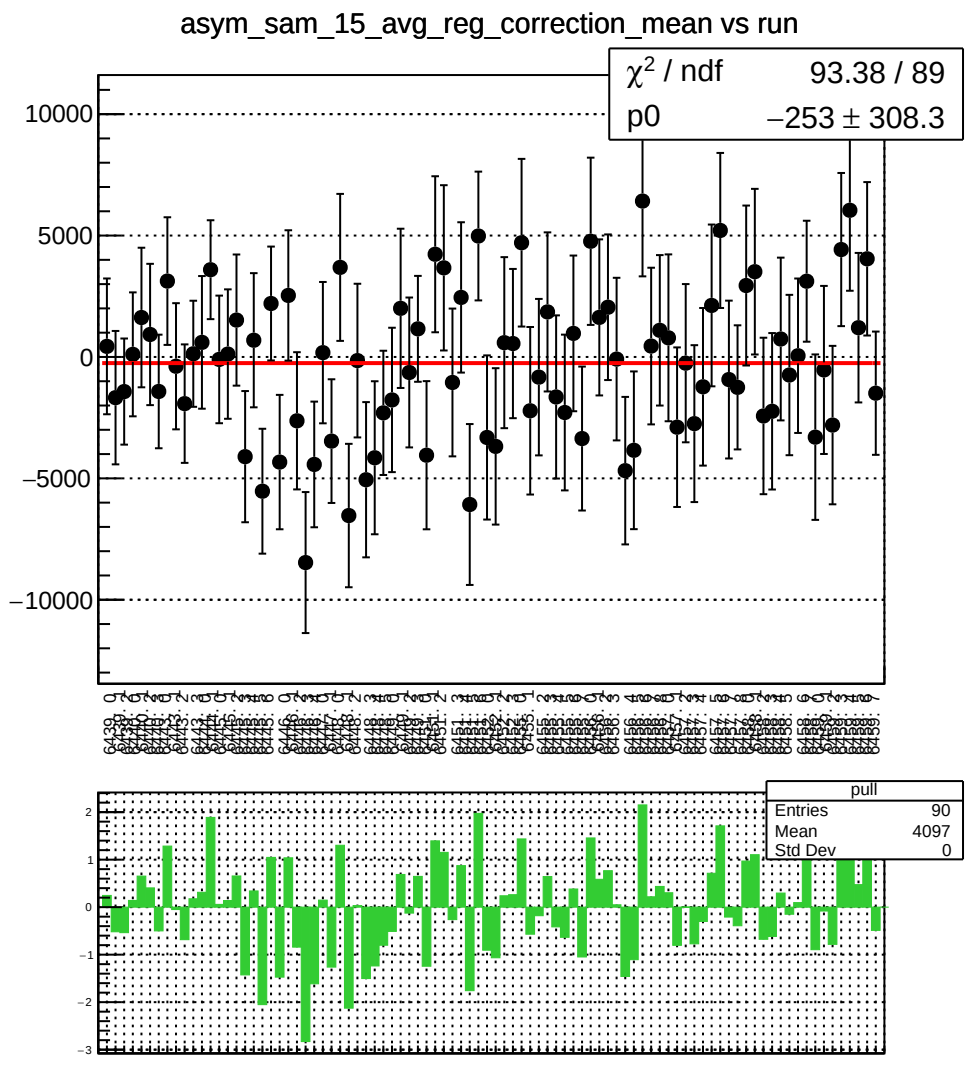

asym_sam8_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.35 / 89
p0 −1.667e−14 ± 8.75e−15
pull
Entries 90
Mean 441.6
Std Dev 0

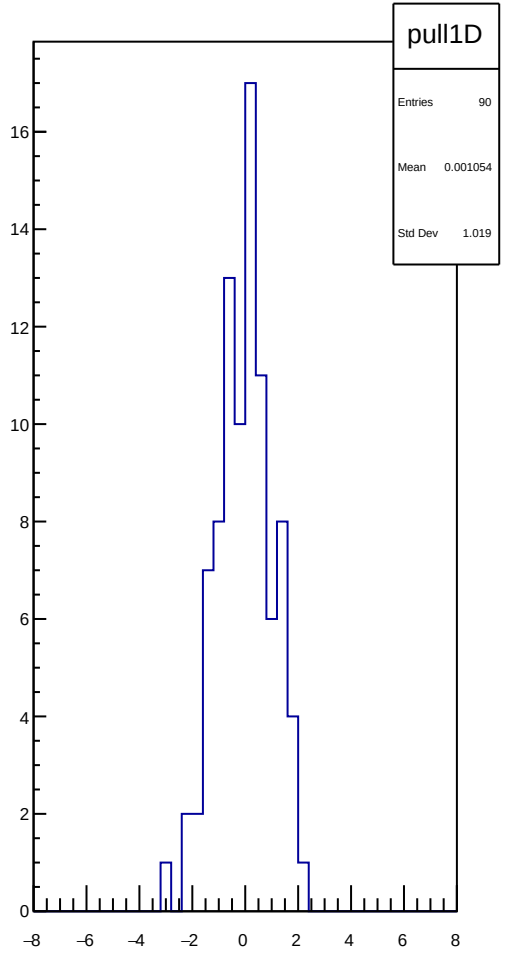

pull1D
Entries 90
Mean −0.008636
Std Dev 0.915

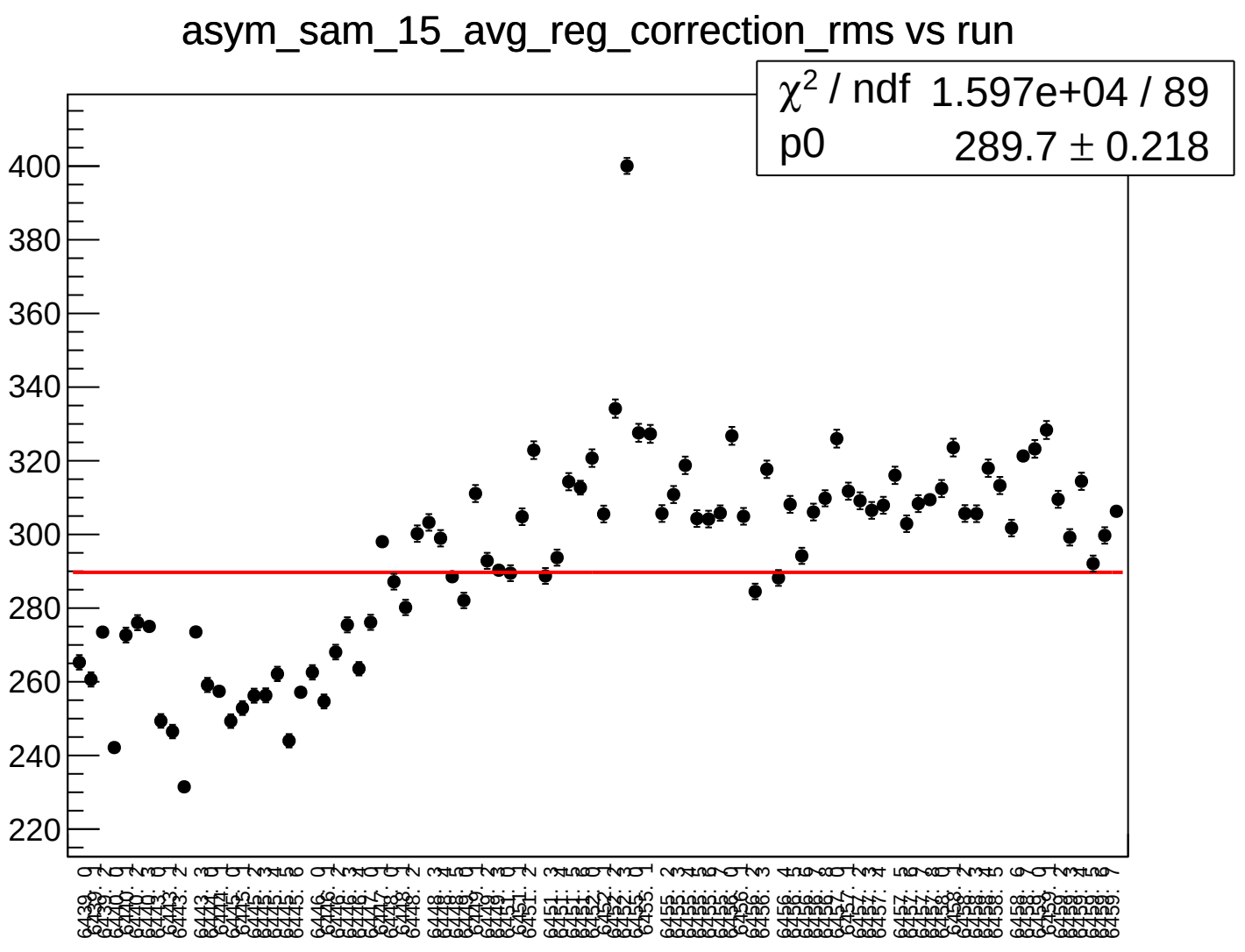

asym_sam8_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.516e+05 / 89
p0 6.578e−12 ± 6.187e−15
50
40
30
20
10

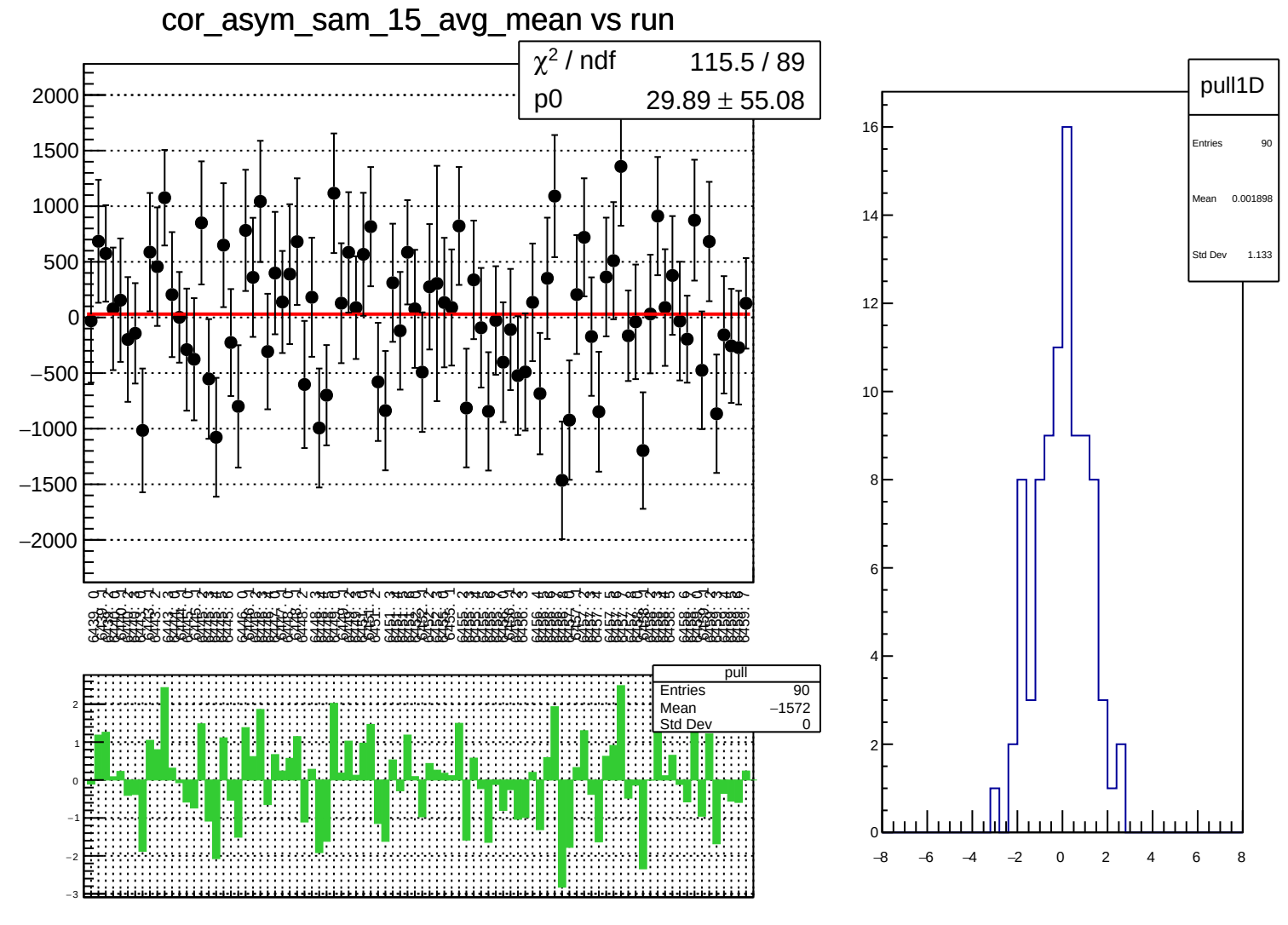

reg_asym_sam_15_avg_mean vs run
χ² / ndf 115.5 / 89
p0 29.89 ± 55.08
pull
Entries 90
Mean −1572
Std Dev 0
pull1D
Entries 90
Mean 0.001898
Std Dev 1.133

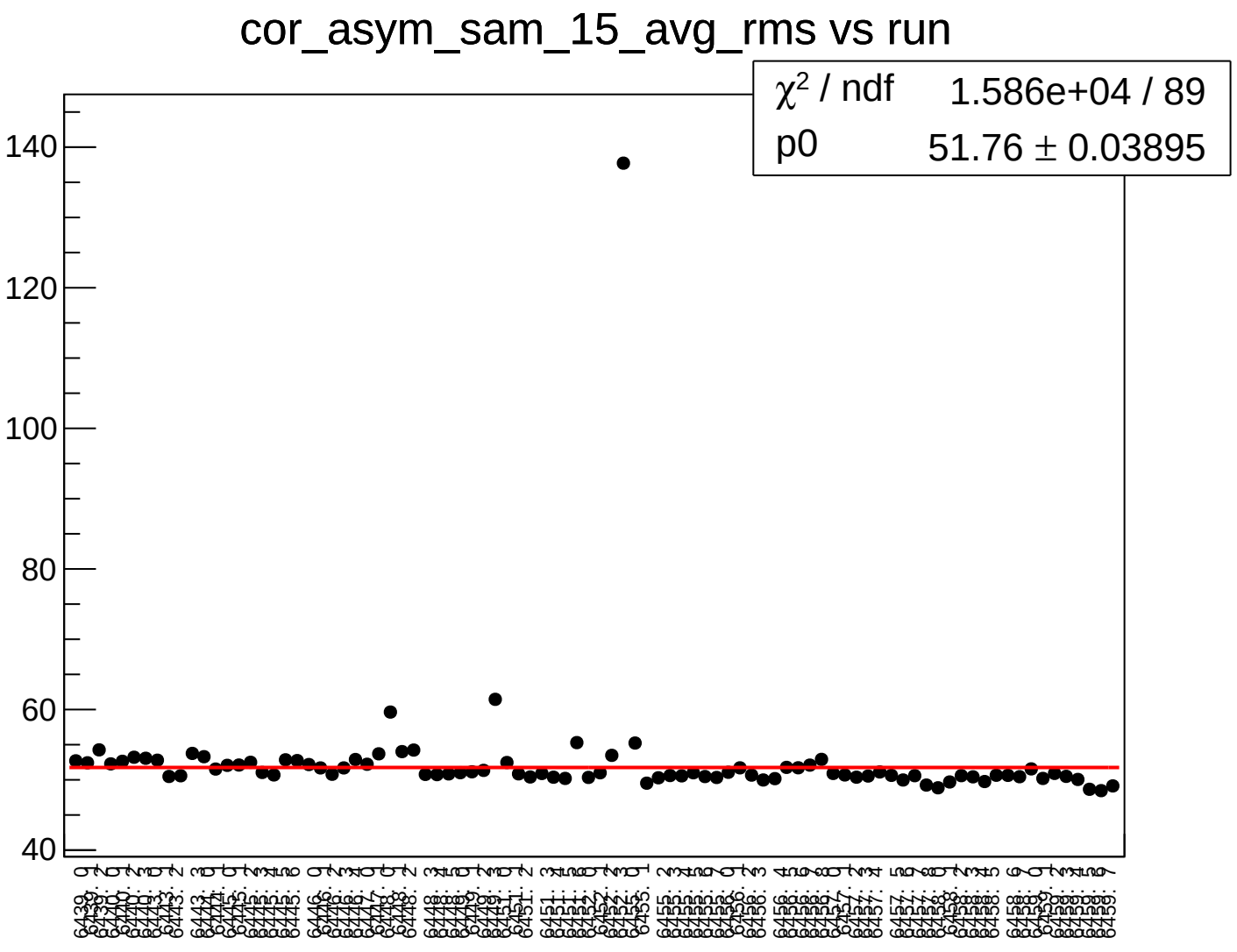

reg_asym_sam_15_avg_rms vs run
χ² / ndf 1.586e+04 / 89
p0 51.76 ± 0.03895
140
120
100
80
60
40

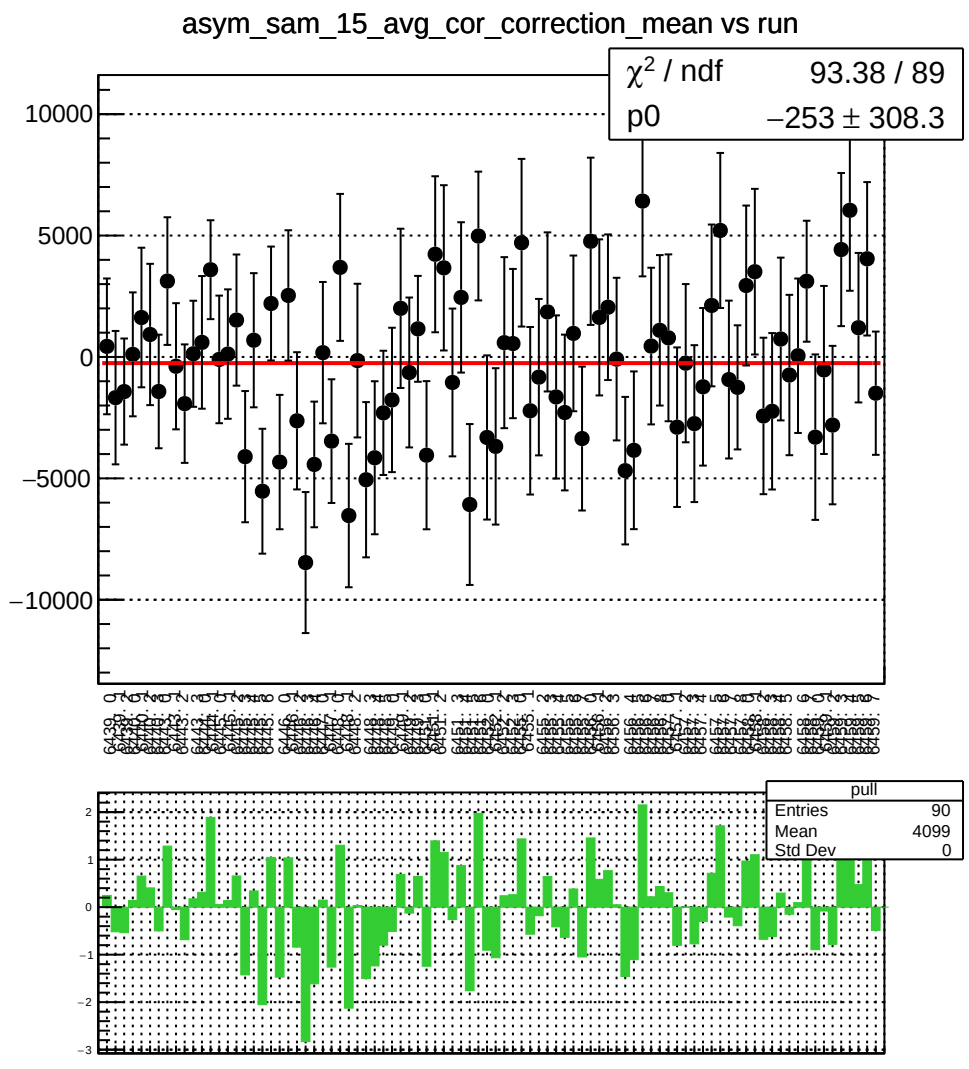

asym_sam_15_avg_reg_correction_mean vs run
χ² / ndf 93.38 / 89
p0 −253 ± 308.3
10000
5000
0
−5000
−10000
pull
Entries 90
Mean 4097
Std Dev 0
2
1
0
−1
−2
−3

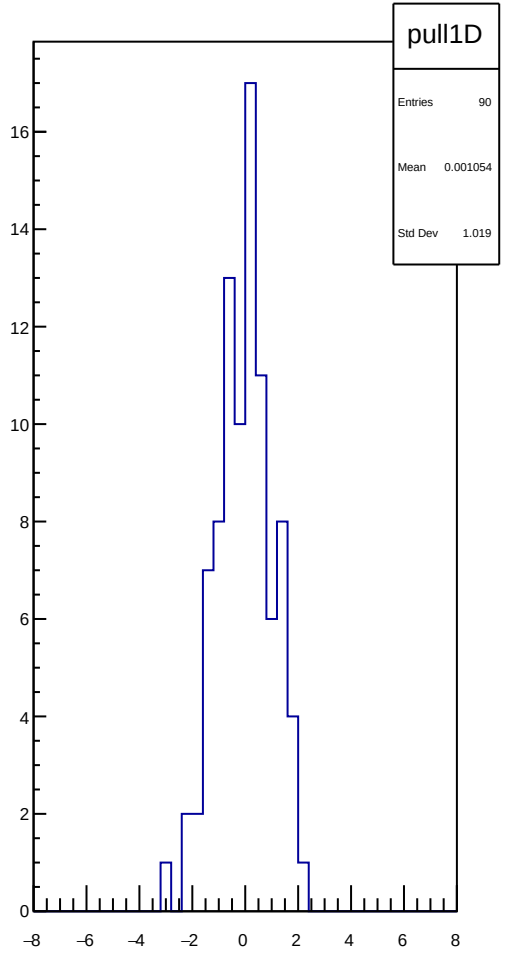

pull1D
Entries 90
Mean 0.001054
Std Dev 1.019
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

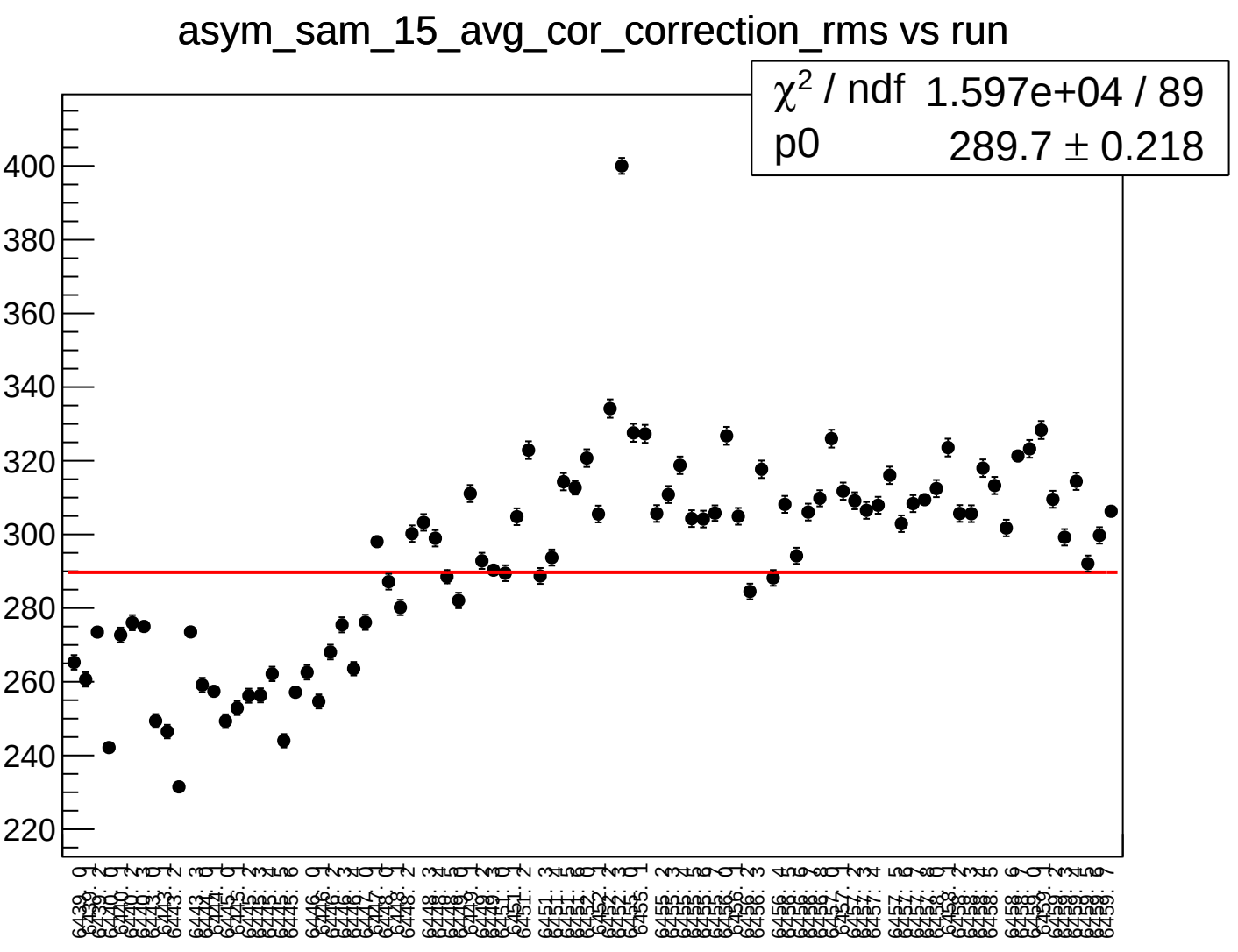

asym_sam_15_avg_reg_correction_rms vs run
χ² / ndf 1.597e+04 / 89
p0 289.7 ± 0.218
400
380
360
340
320
300
280
260
240
220

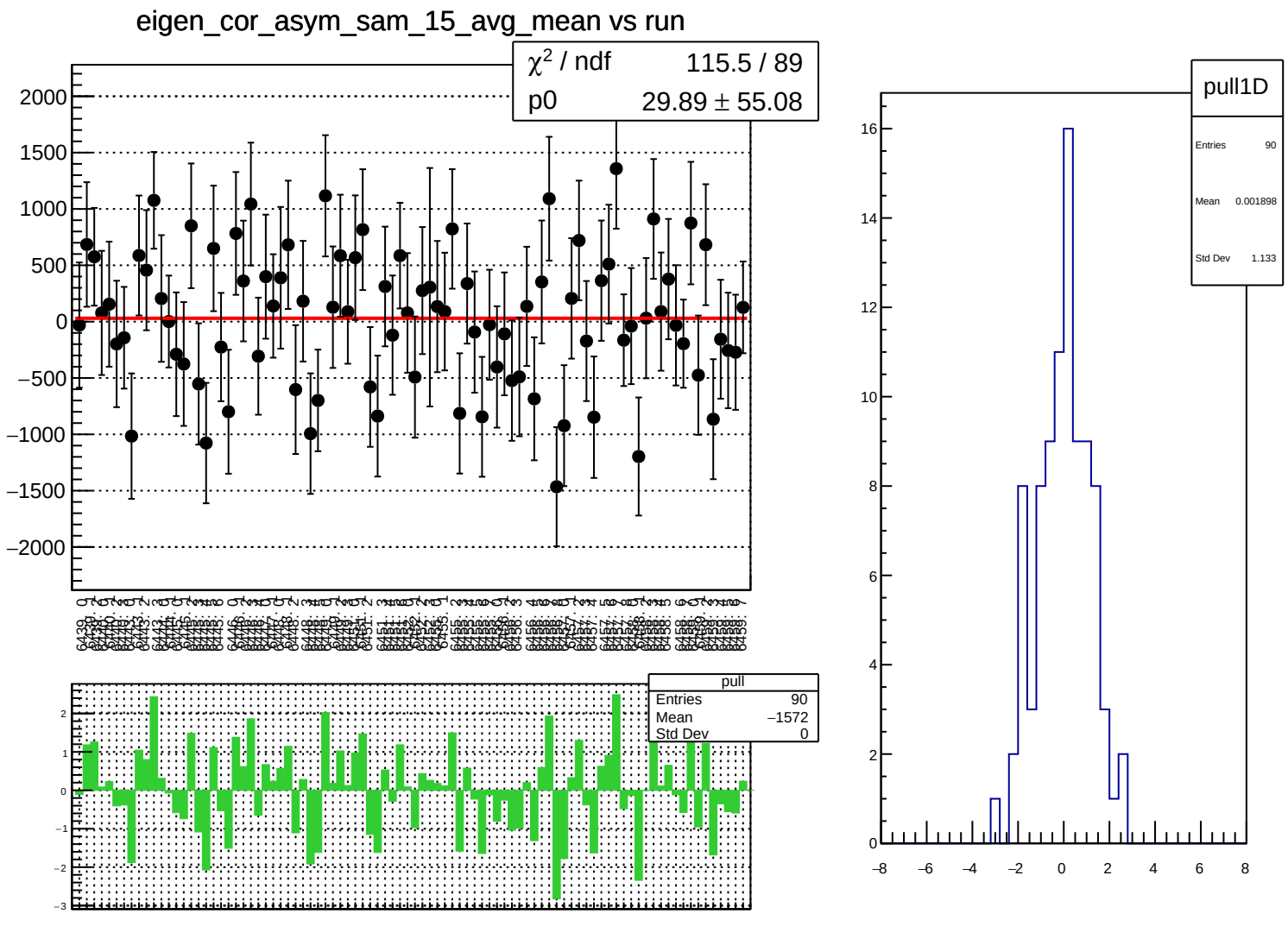

cor_asym_sam_15_avg_mean vs run
χ² / ndf 115.5 / 89
p0 29.89 ± 55.08
pull
Entries 90
Mean −1572
Std Dev 0
pull1D
Entries 90
Mean 0.001898
Std Dev 1.133

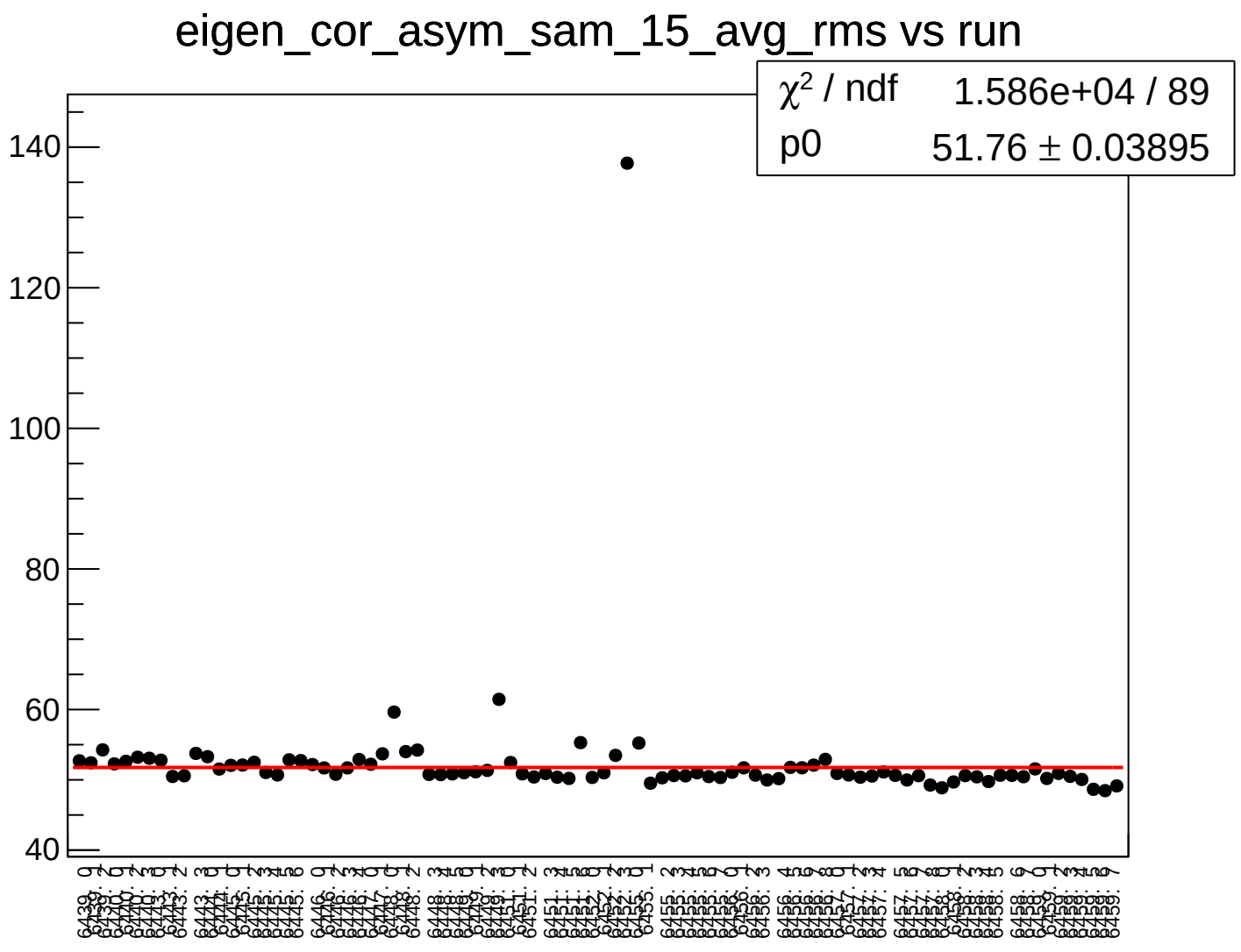

cor_asym_sam_15_avg_rms vs run
χ² / ndf 1.586e+04 / 89
p0 51.76 ± 0.03895
140
120
100
80
60
40

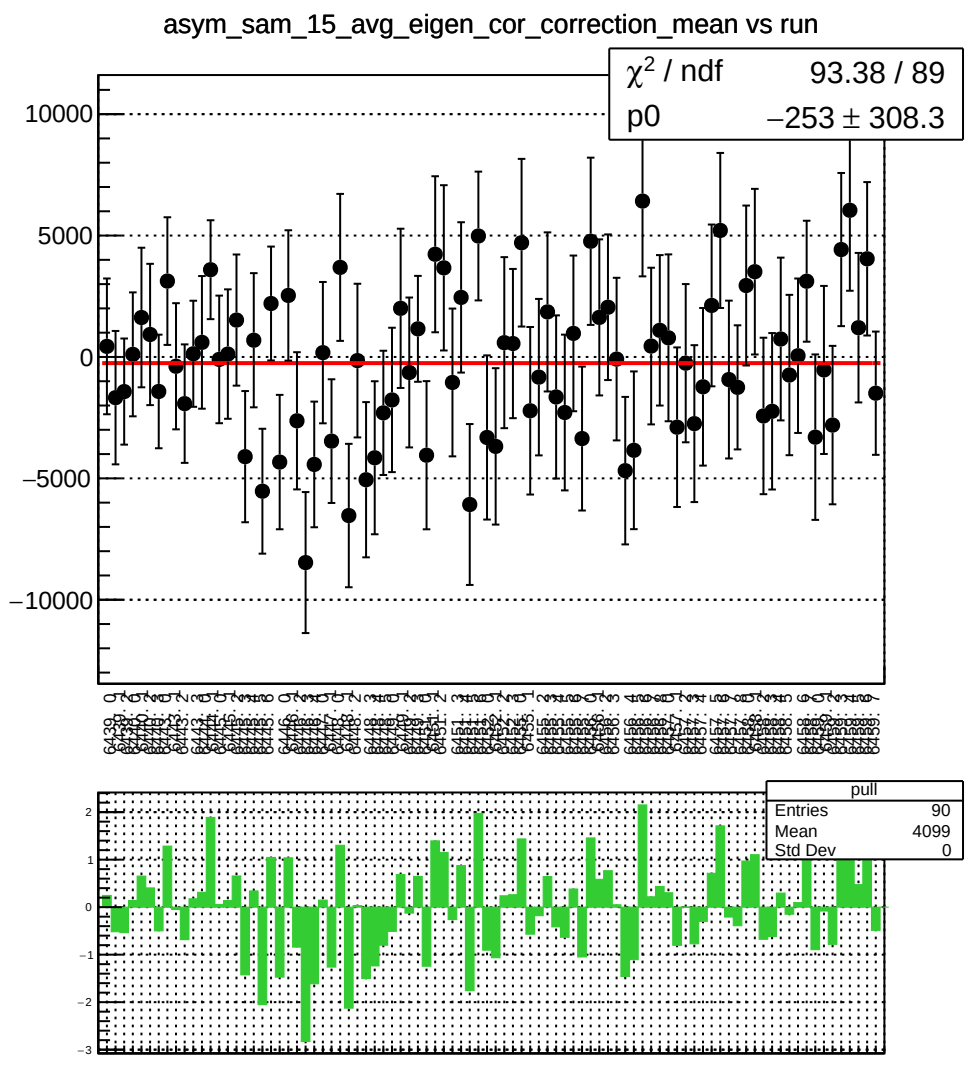

asym_sam_15_avg_cor_correction_mean vs run
χ² / ndf 93.38 / 89
p0 −253 ± 308.3
10000
5000
0
−5000
−10000
pull
Entries 90
Mean 4099
Std Dev 0
2
1
0
−1
−2
−3

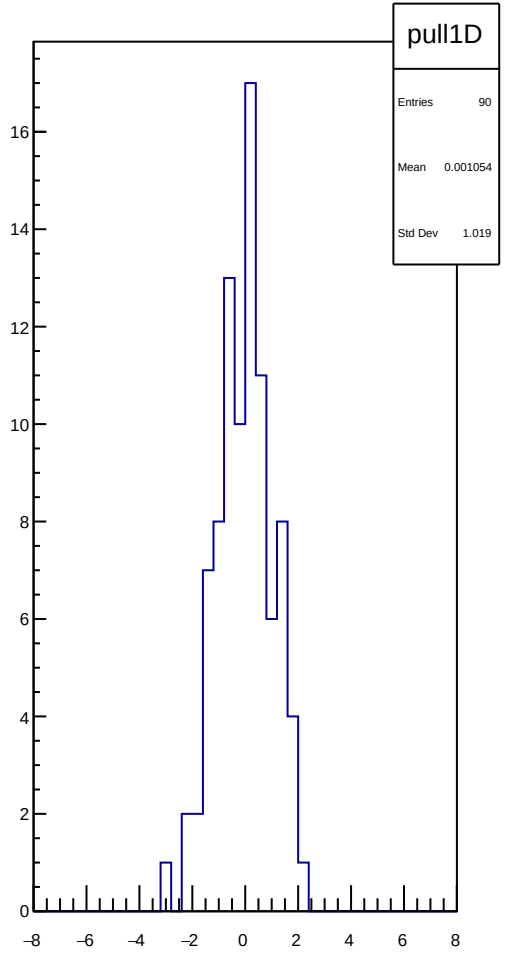

pull1D
Entries 90
Mean 0.001054
Std Dev 1.019
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

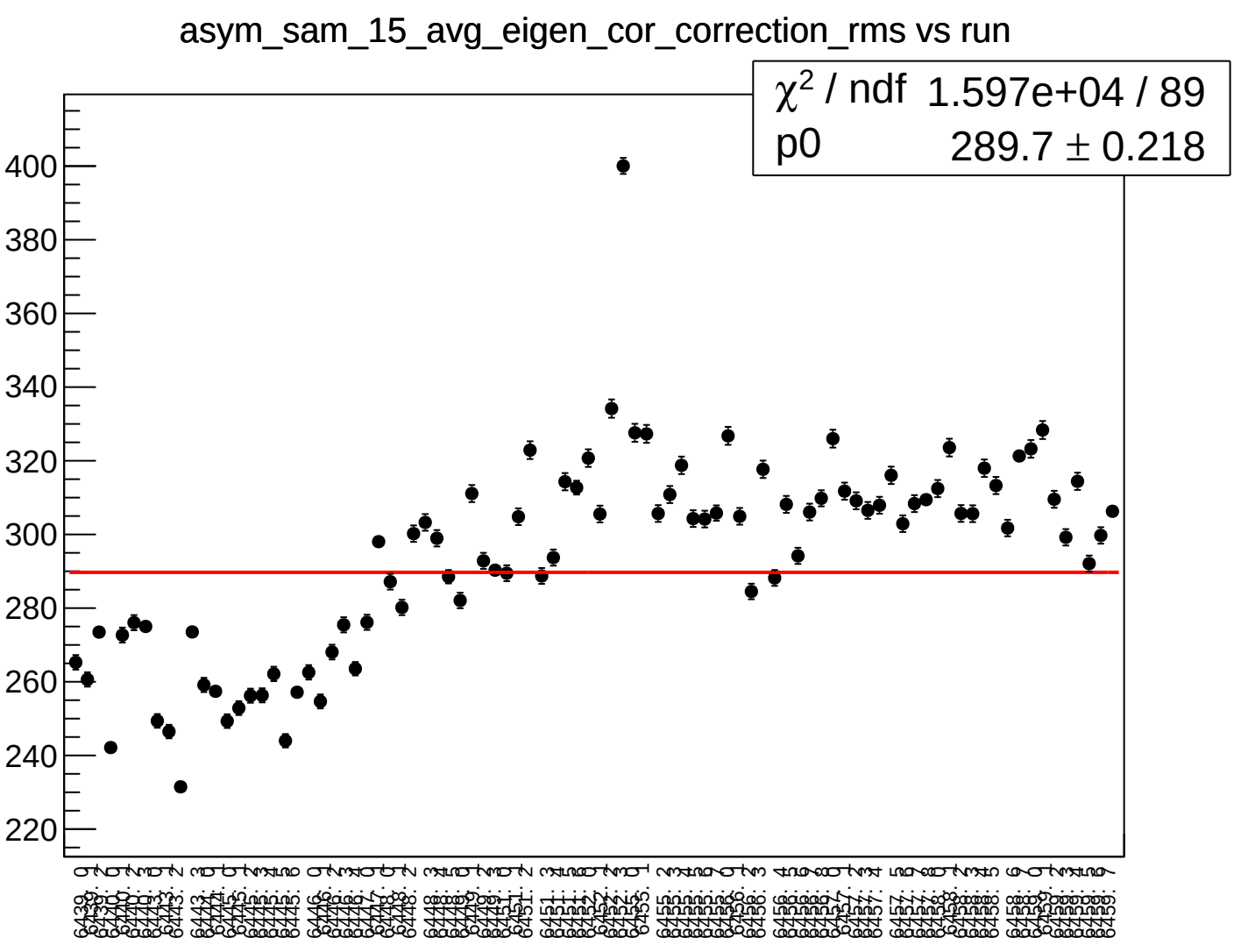

asym_sam_15_avg_cor_correction_rms vs run
χ² / ndf 1.597e+04 / 89
p0 289.7 ± 0.218
400
380
360
340
320
300
280
260
240
220

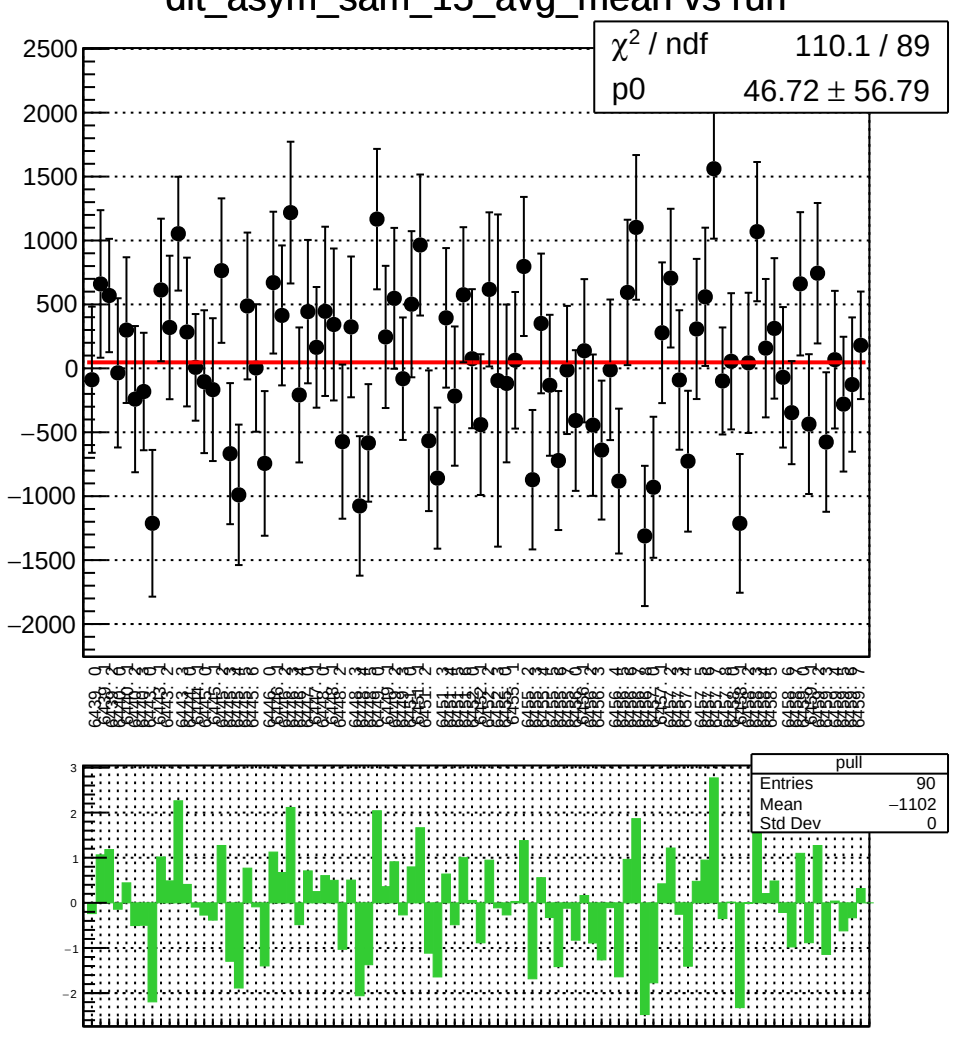

eigen_cor_asym_sam_15_avg_mean vs run
χ² / ndf 115.5 / 89
p0 29.89 ± 55.08
pull
Entries 90
Mean −1572
Std Dev 0
pull1D
Entries 90
Mean 0.001898
Std Dev 1.133

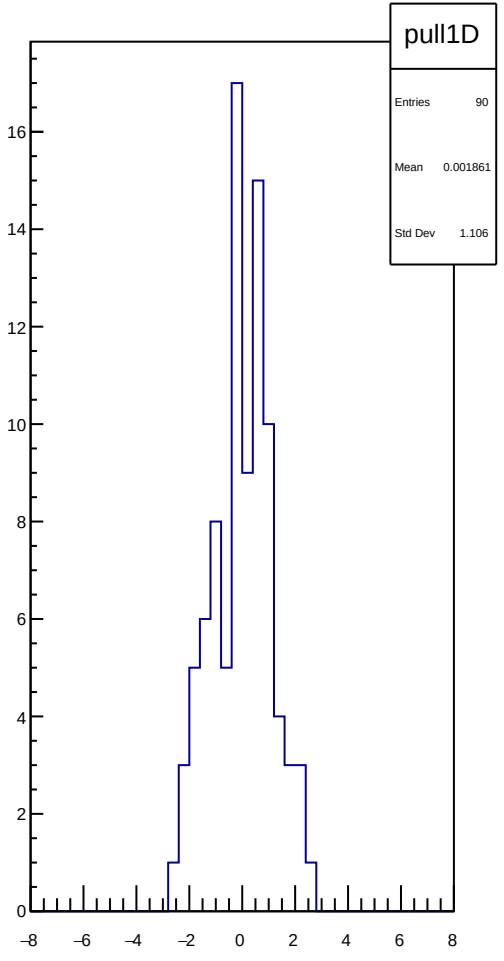

eigen_cor_asym_sam_15_avg_rms vs run
χ² / ndf 1.586e+04 / 89
p0 51.76 ± 0.03895
140
120
100
80
60
40

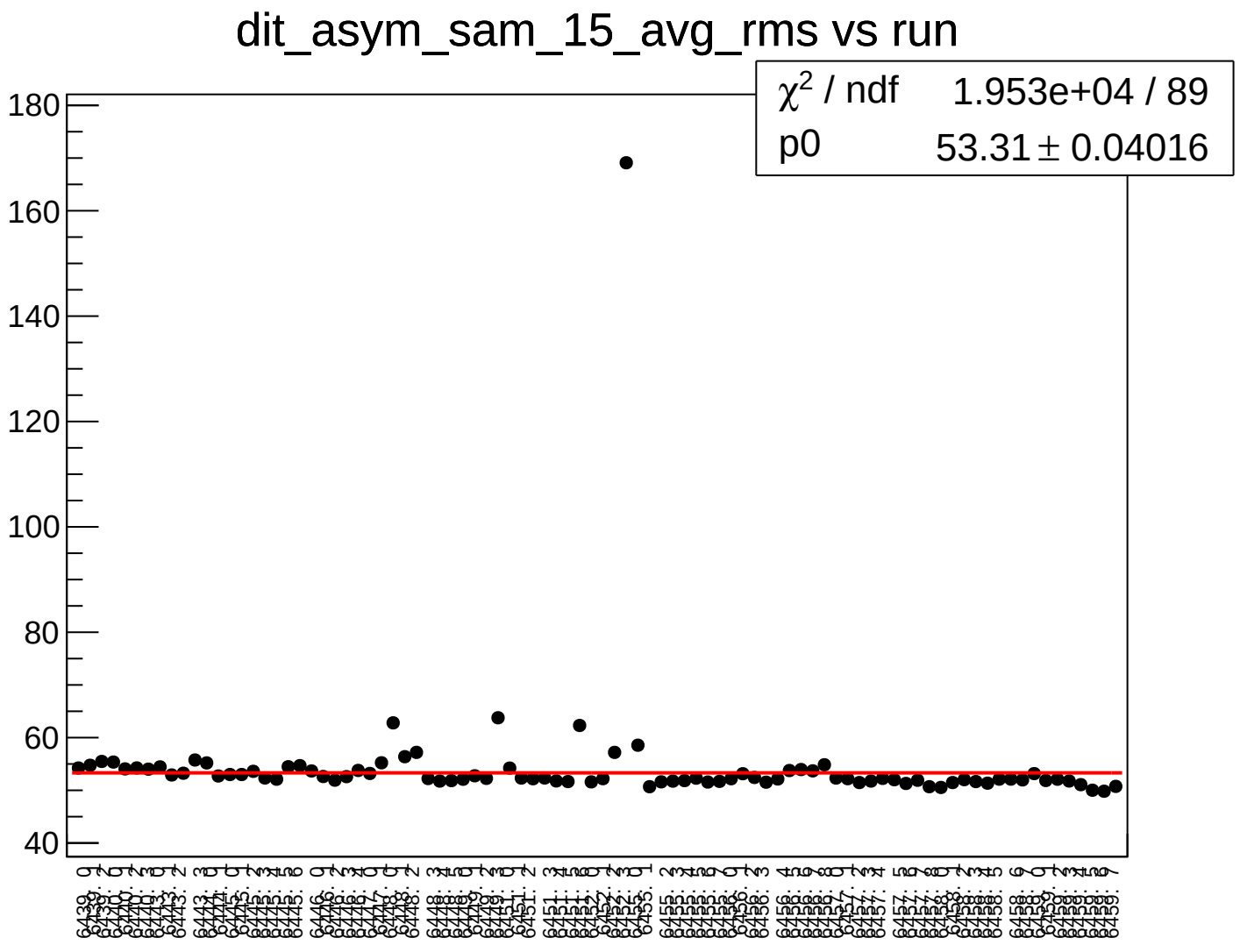

asym_sam_15_avg_eigen_cor_correction_mean vs run
χ² / ndf 93.38 / 89
p0 −253 ± 308.3
10000
5000
0
−5000
−10000
pull
Entries 90
Mean 4099
Std Dev 0
2
1
0
−1
−2
−3

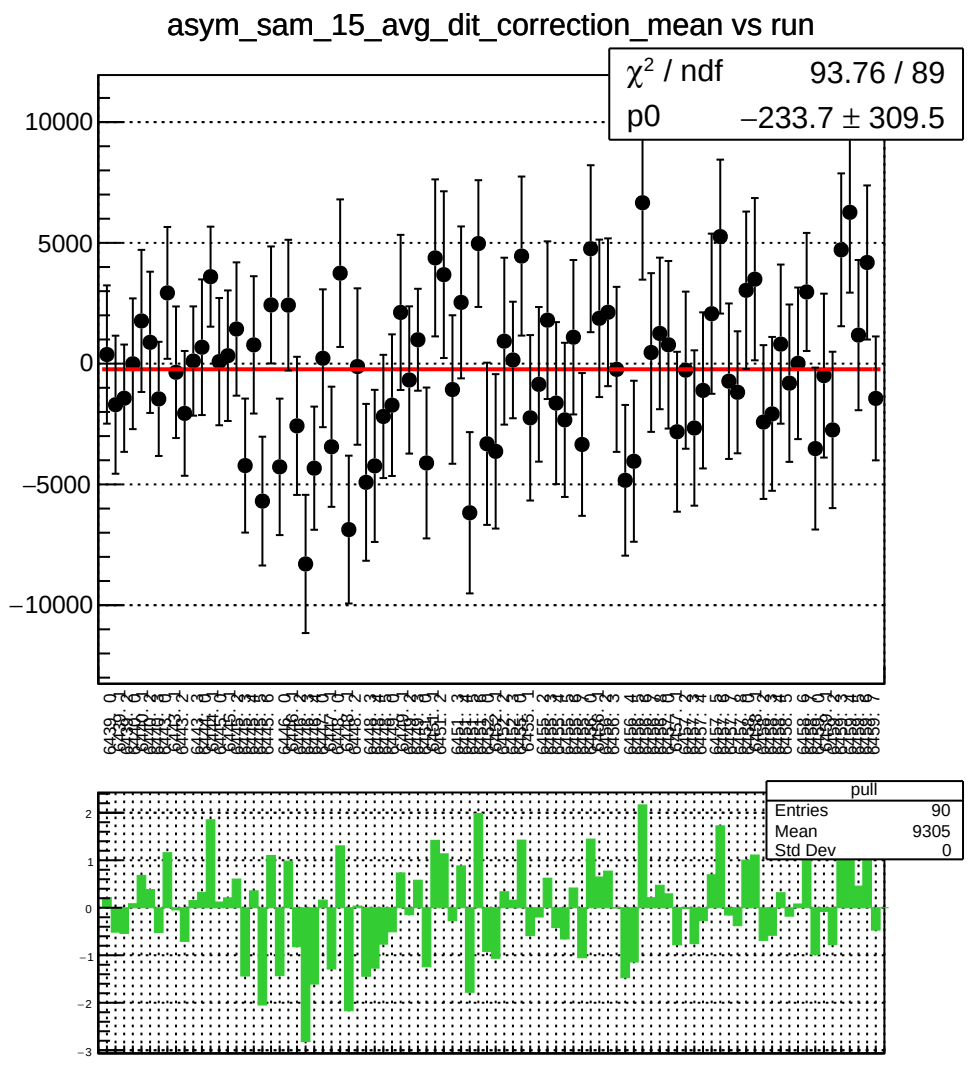

pull1D
Entries 90
Mean 0.001054
Std Dev 1.019
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

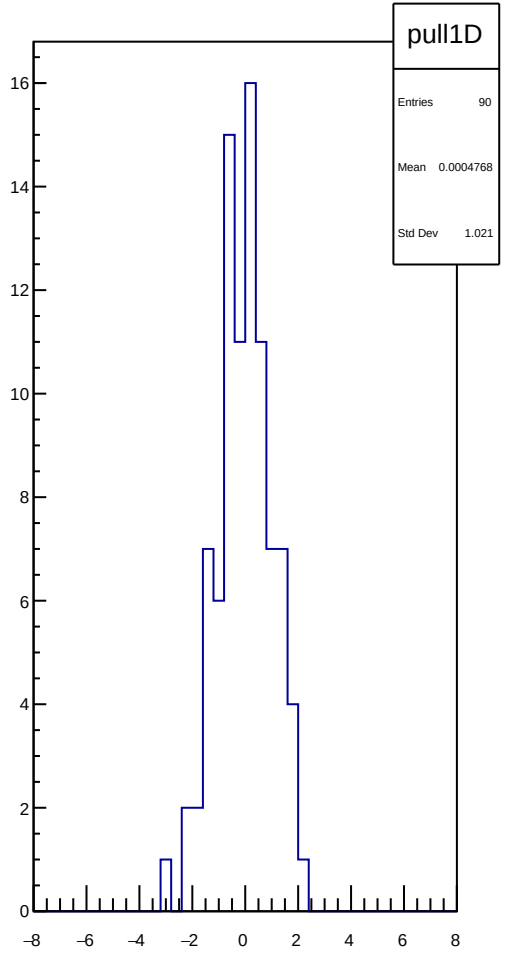

asym_sam_15_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.597e+04 / 89
p0 289.7 ± 0.218
400
380
360
340
320
300
280
260
240
220

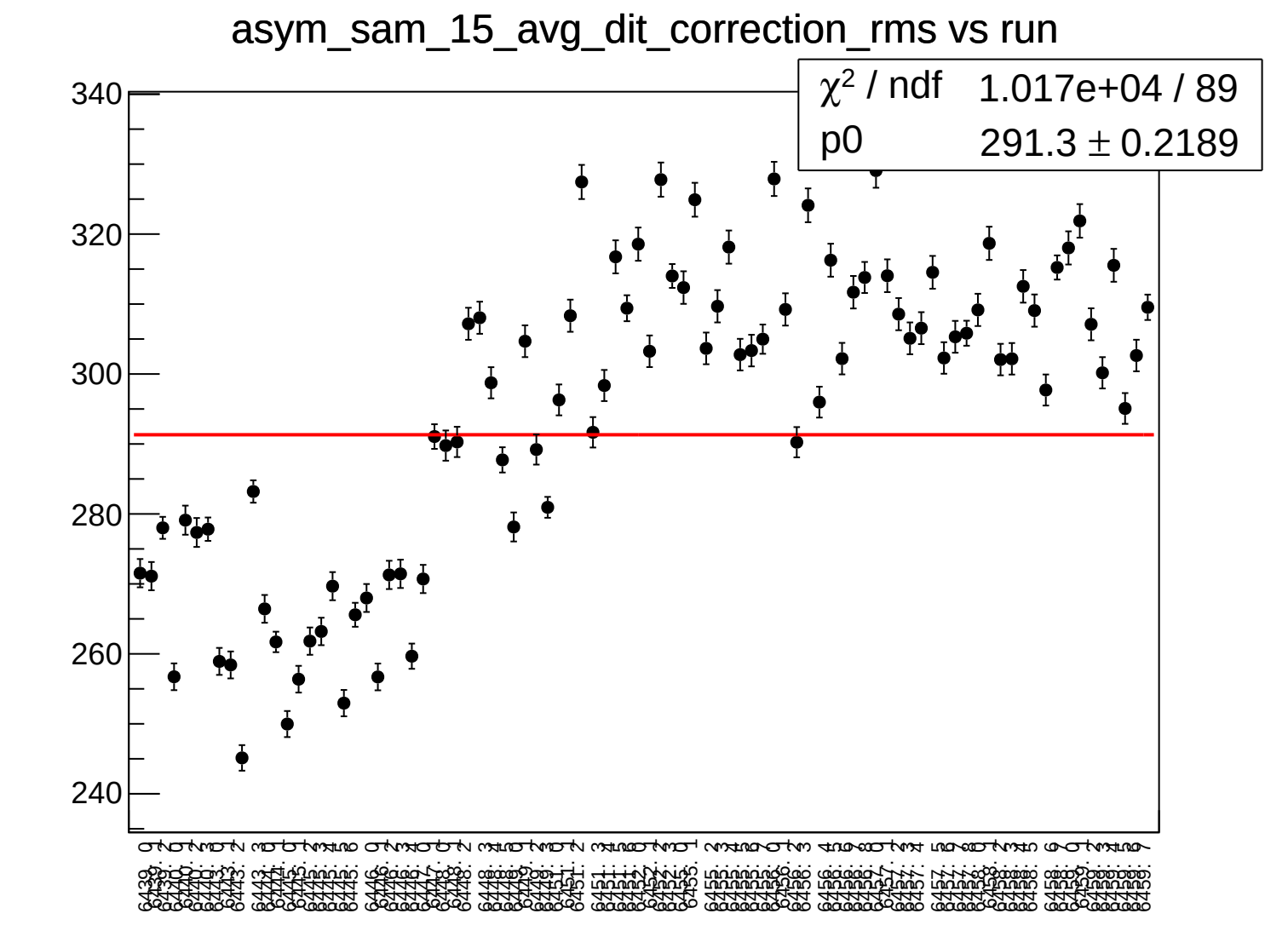

dit_asym_sam_15_avg_mean vs run
χ² / ndf 110.1 / 89
p0 46.72 ± 56.79
pull
Entries 90
Mean −1102
Std Dev 0

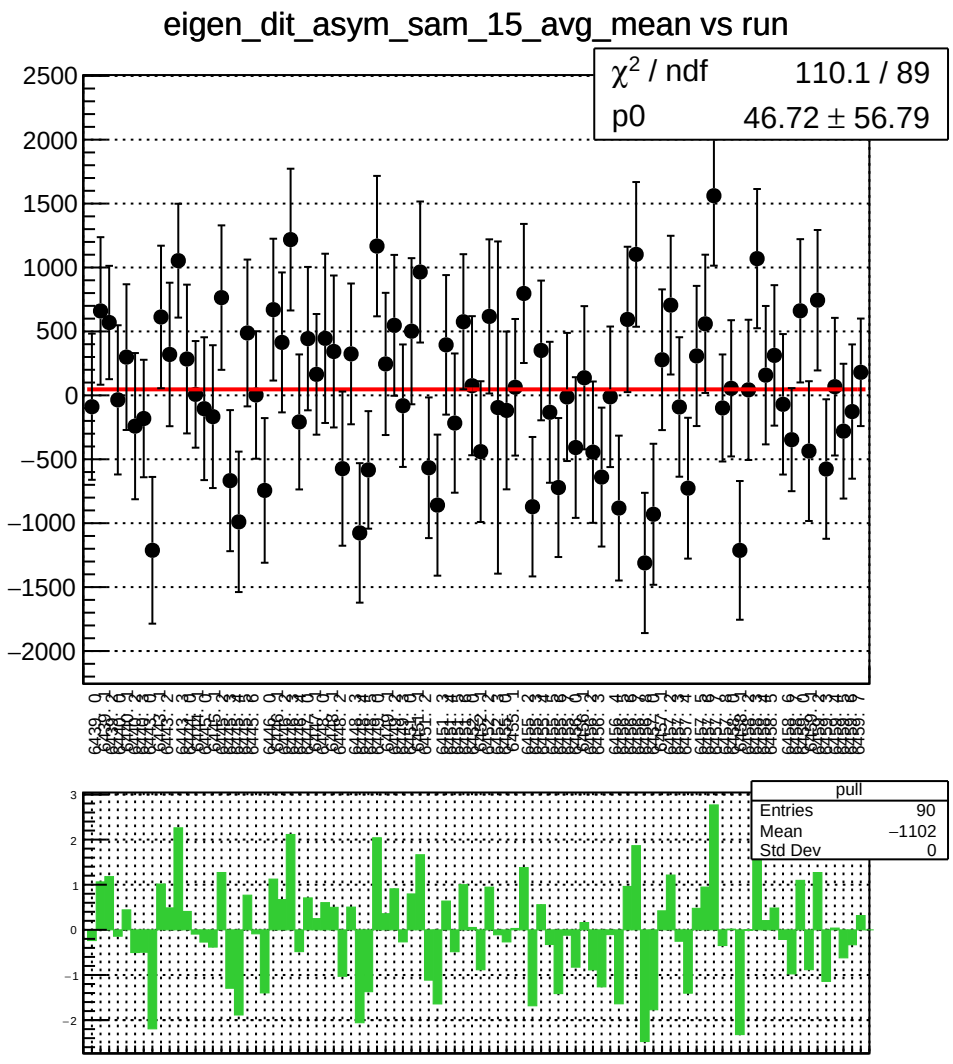

pull1D
Entries 90
Mean 0.001861
Std Dev 1.106

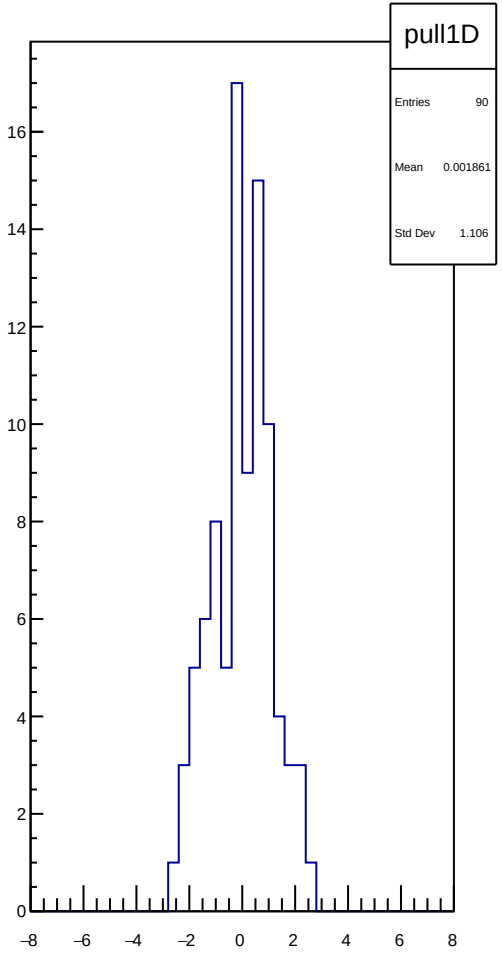

dit_asym_sam_15_avg_rms vs run
χ^2 / ndf 1.953e+04 / 89
p0 53.31 ± 0.04016
180
160
140
120
100
80
60
40

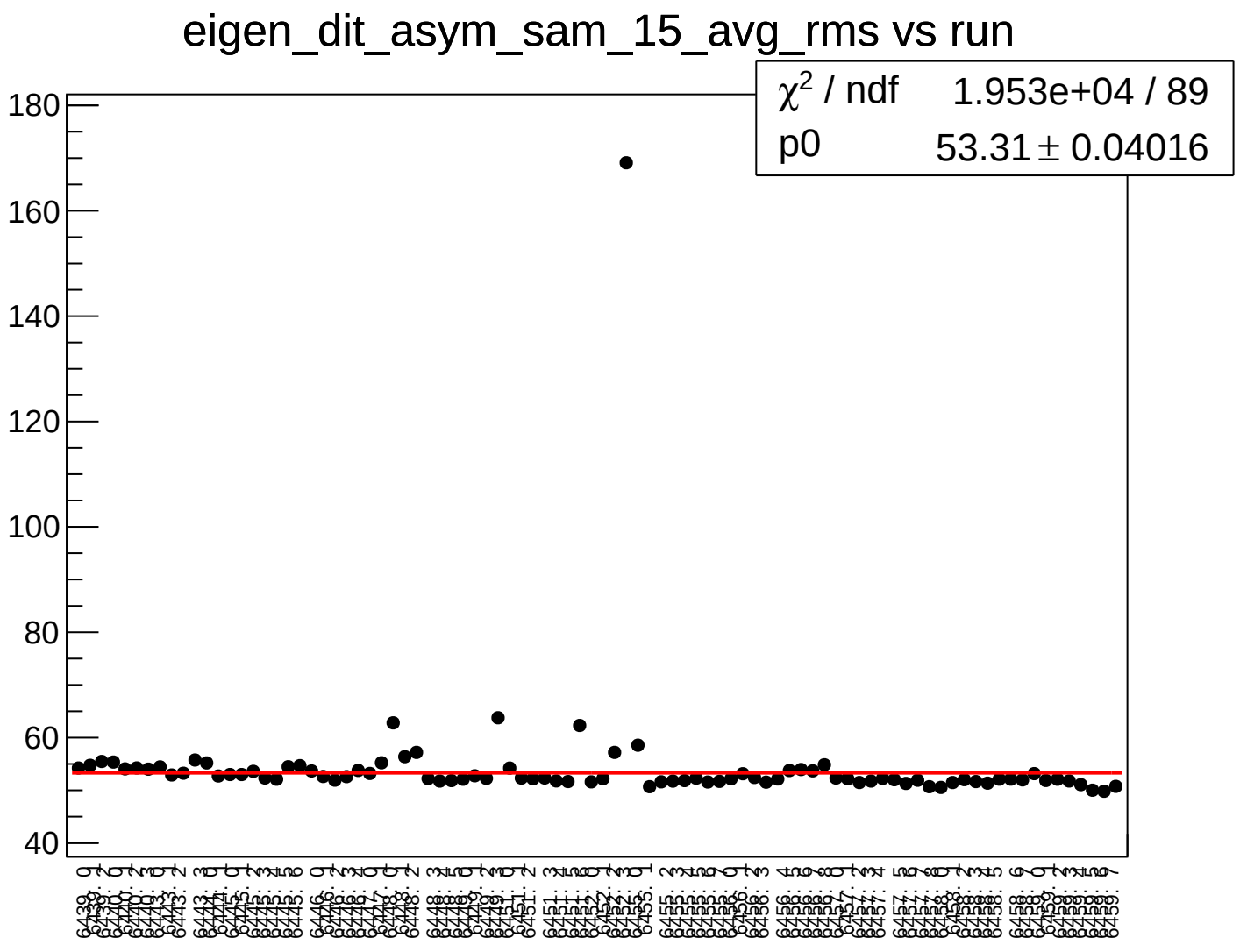

asym_sam_15_avg_dit_correction_mean vs run
χ² / ndf 93.76 / 89
p0 −233.7 ± 309.5
10000
5000
0
−5000
−10000
pull
Entries 90
Mean 9305
Std Dev 0
2
1
0
−1
−2
−3

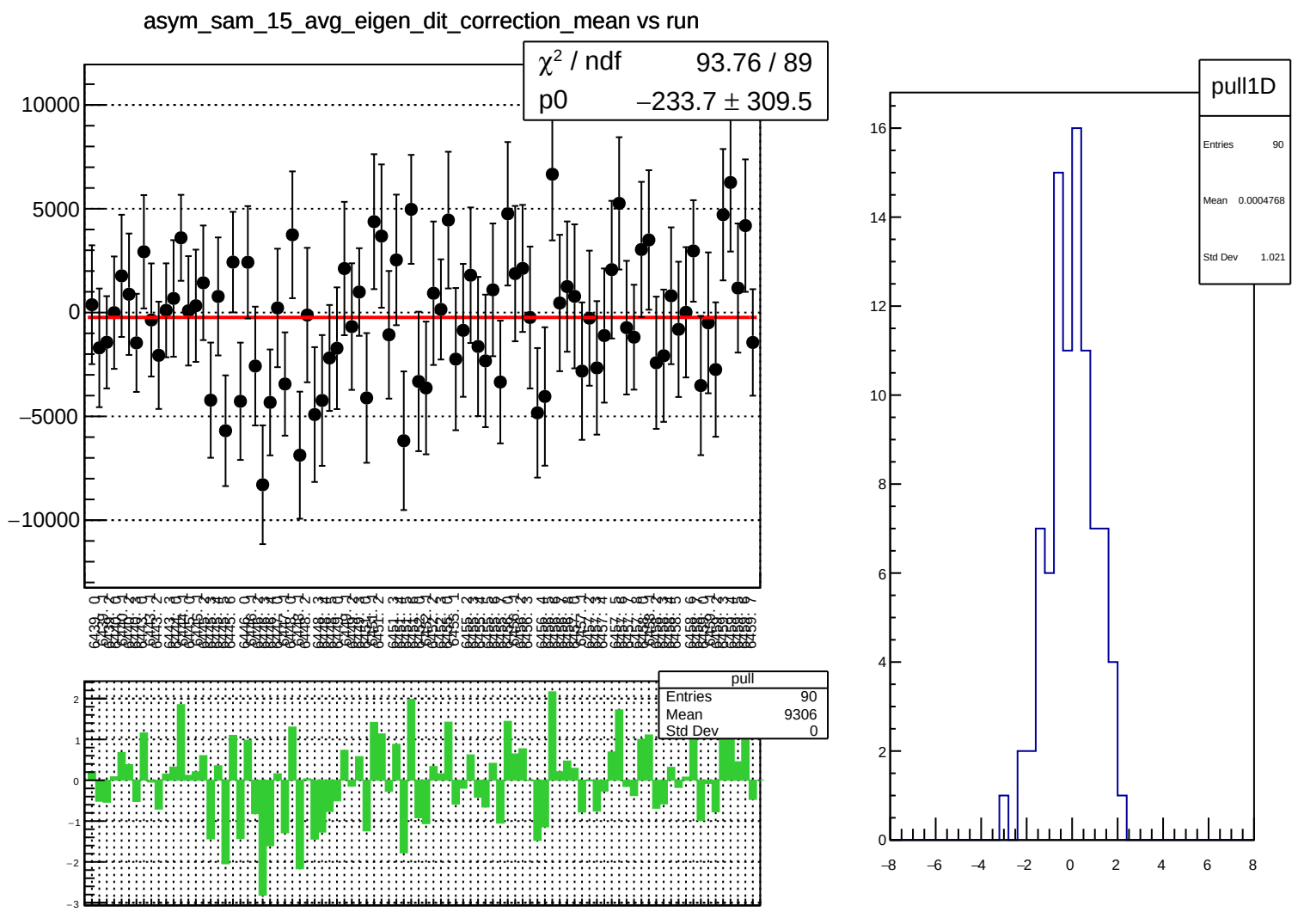

pull1D
Entries 90
Mean 0.0004768
Std Dev 1.021
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

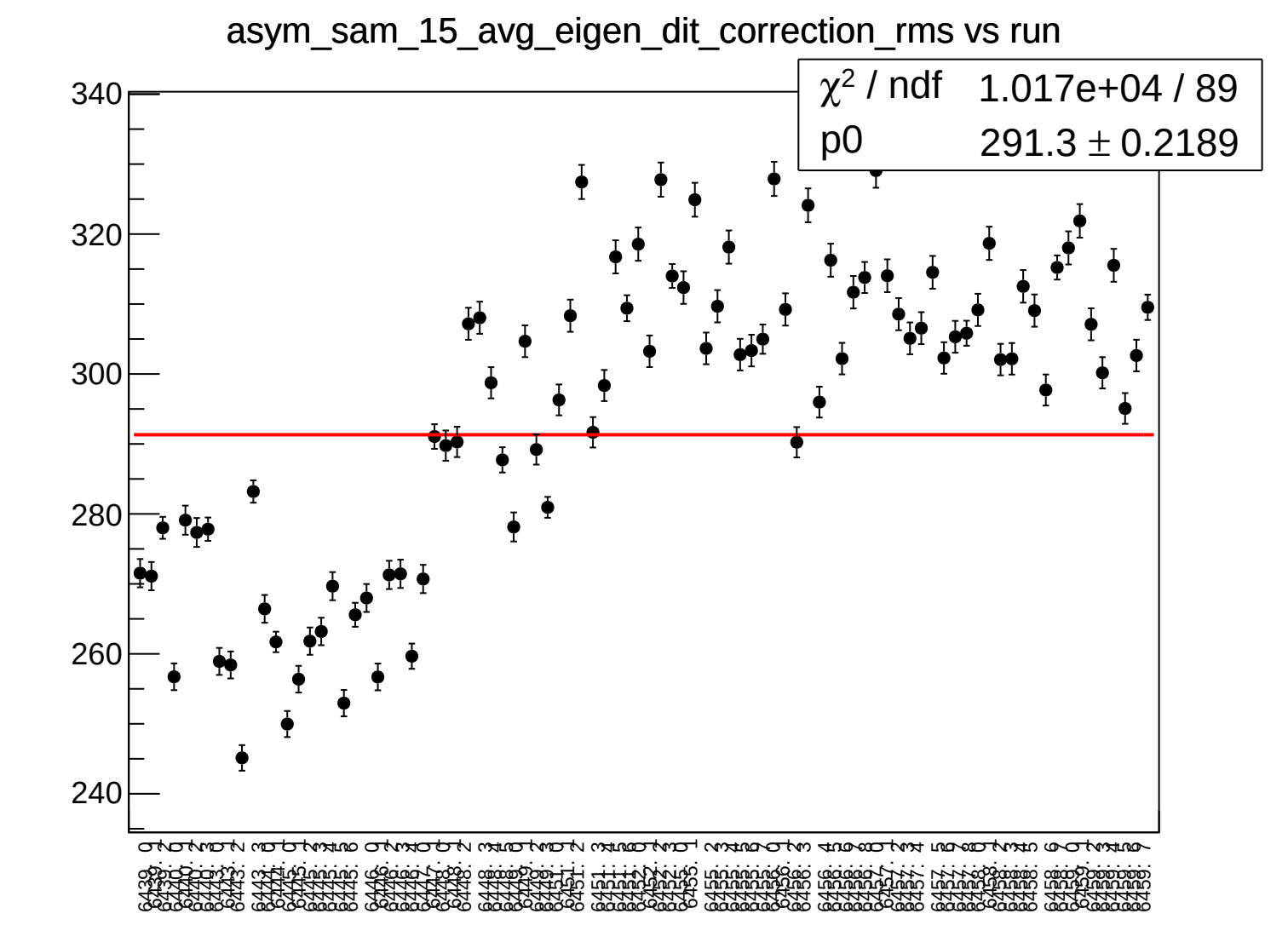

asym_sam_15_avg_dit_correction_rms vs run
χ² / ndf 1.017e+04 / 89
p0 291.3 ± 0.2189
340
320
300
280
260
240

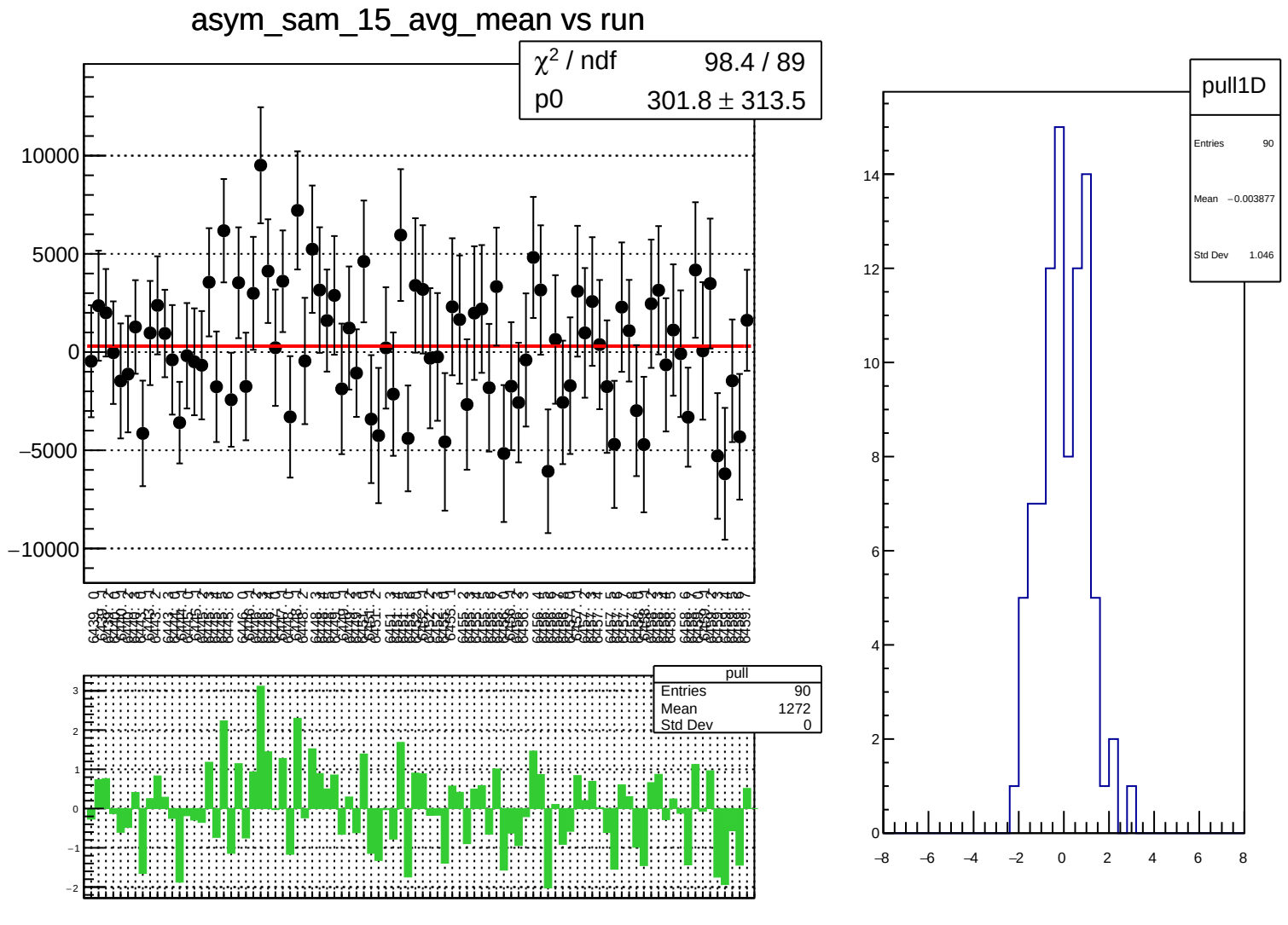

eigen_dit_asym_sam_15_avg_mean vs run
χ² / ndf 110.1 / 89
p0 46.72 ± 56.79
pull
Entries 90
Mean −1102
Std Dev 0

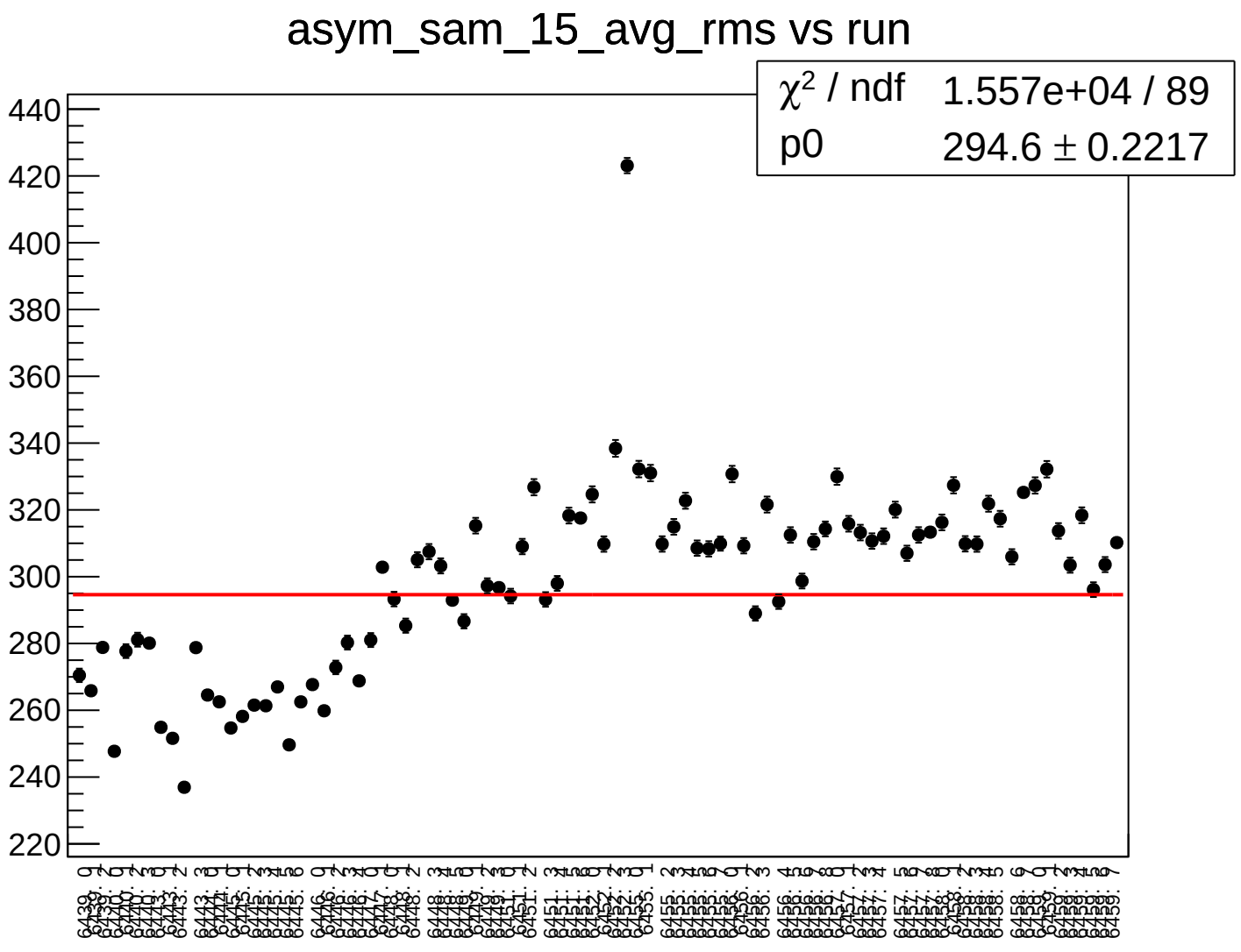

pull1D
Entries 90
Mean 0.001861
Std Dev 1.106

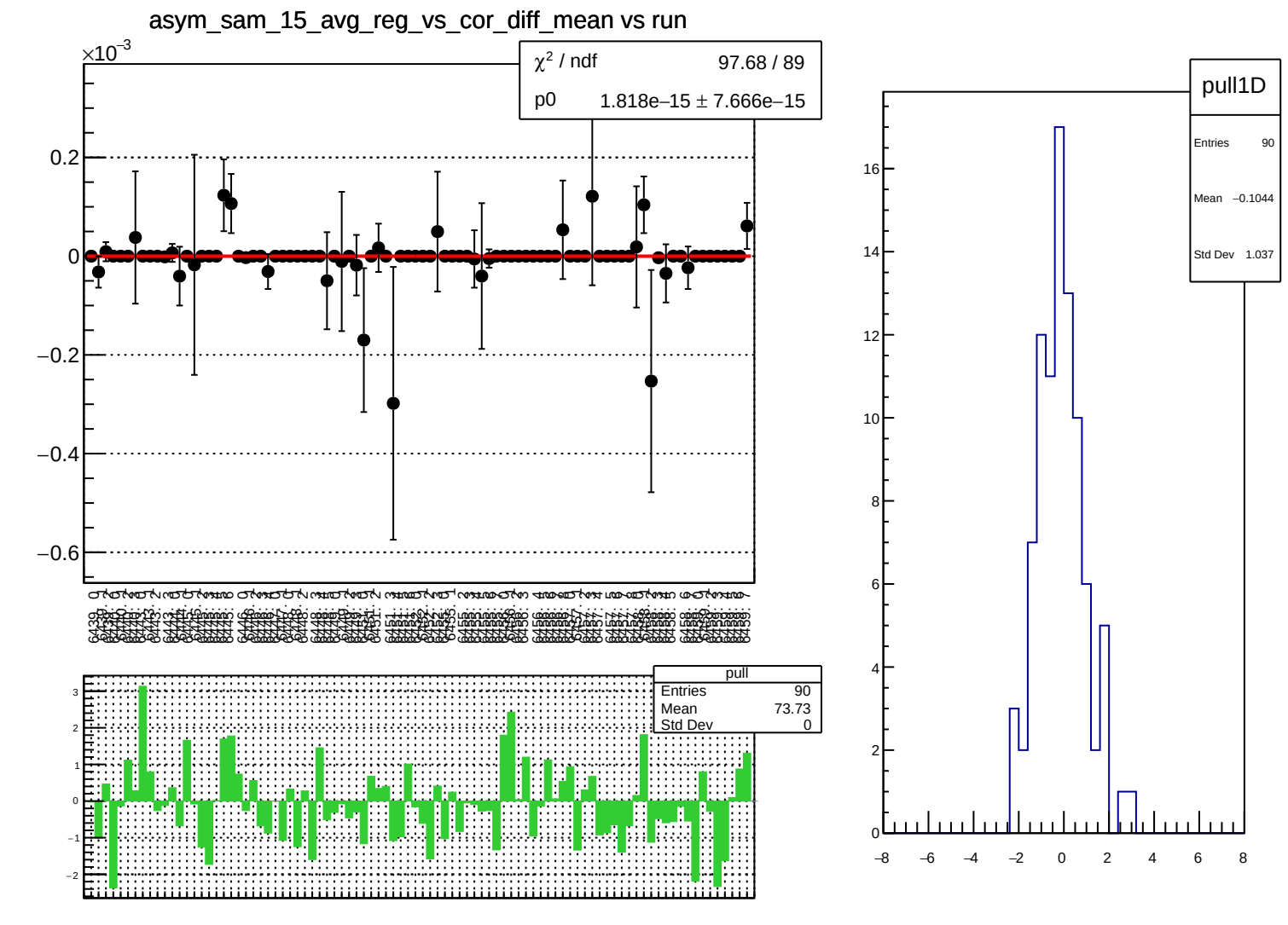

eigen_dit_asym_sam_15_avg_rms vs run
χ^2 / ndf 1.953e+04 / 89
p0 53.31 ± 0.04016
180
160
140
120
100
80
60
40

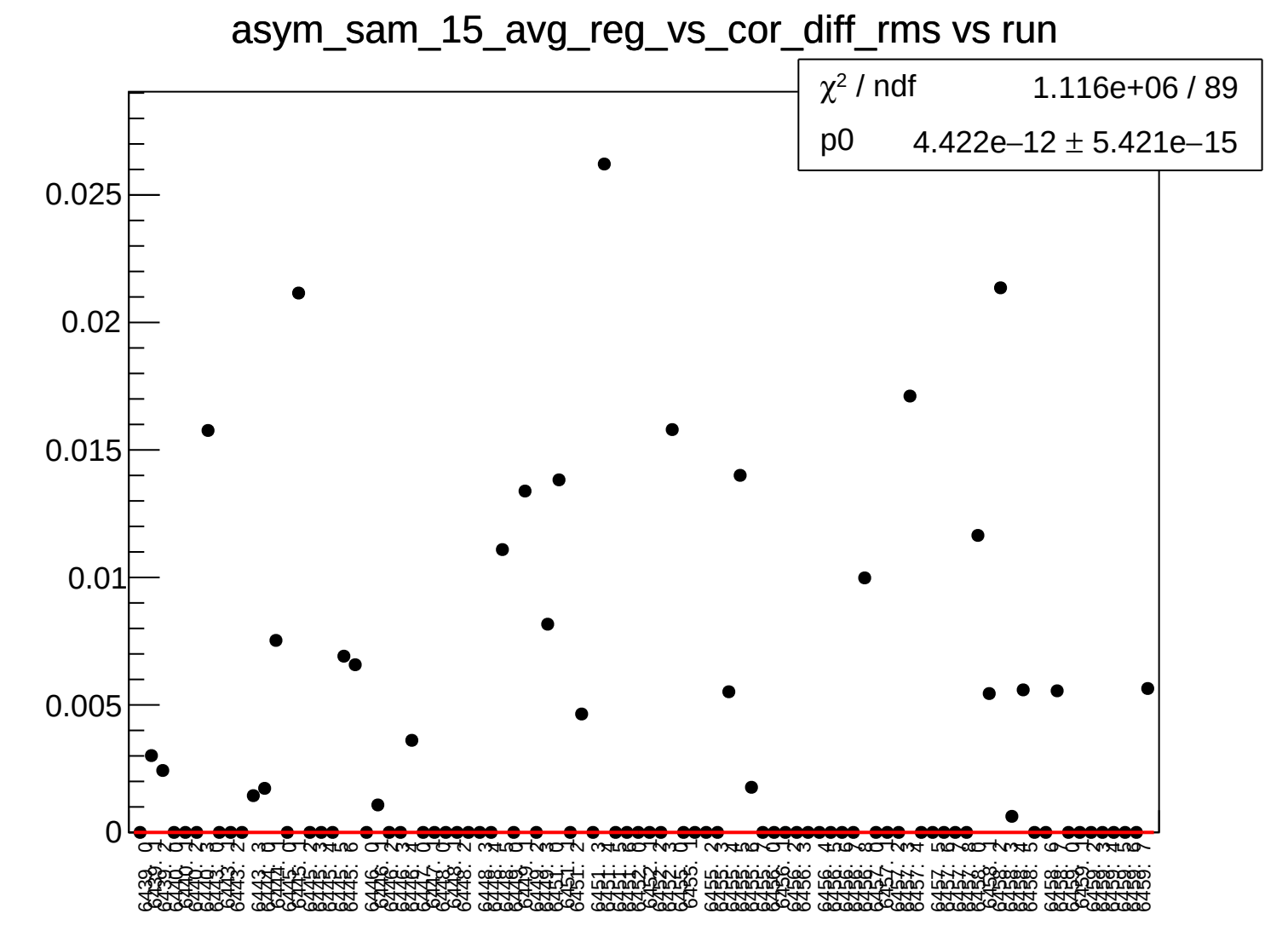

asym_sam_15_avg_eigen_dit_correction_mean vs run
χ² / ndf 93.76 / 89
p0 −233.7 ± 309.5
10000
5000
0
−5000
−10000
pull
Entries 90
Mean 9306
Std Dev 0
pull1D
Entries 90
Mean 0.0004768
Std Dev 1.021

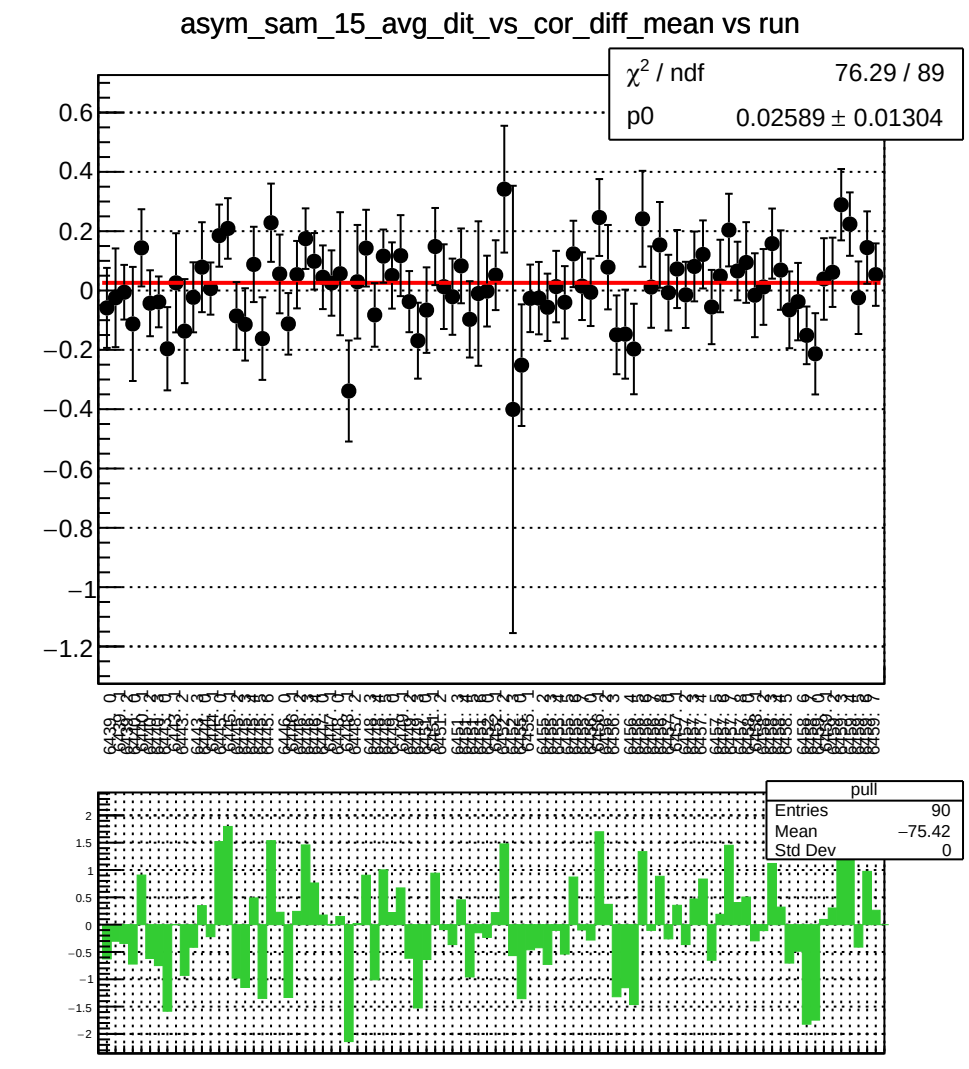

asym_sam_15_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.017e+04 / 89
p0 291.3 ± 0.2189
340
320
300
280
260
240

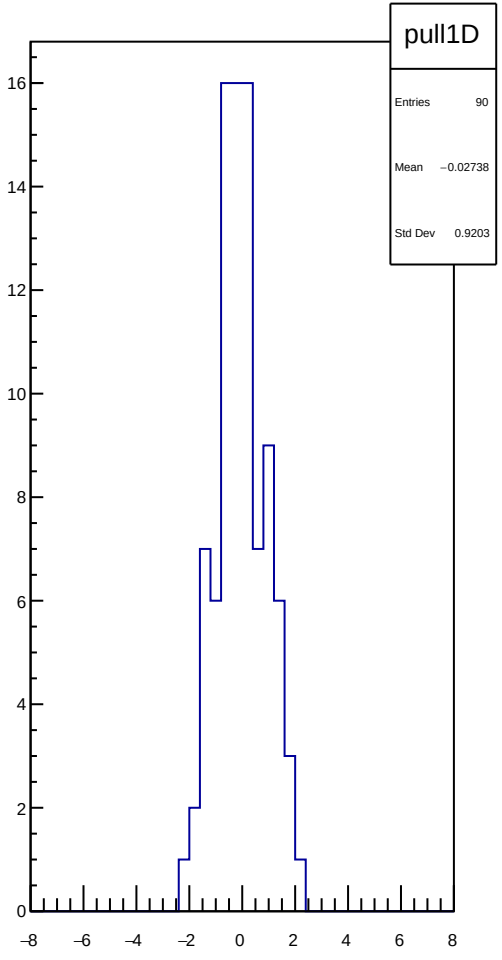

asym_sam_15_avg_mean vs run
χ² / ndf 98.4 / 89
p0 301.8 ± 313.5
10000
5000
0
−5000
−10000
pull
Entries 90
Mean 1272
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.003877
Std Dev 1.046
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

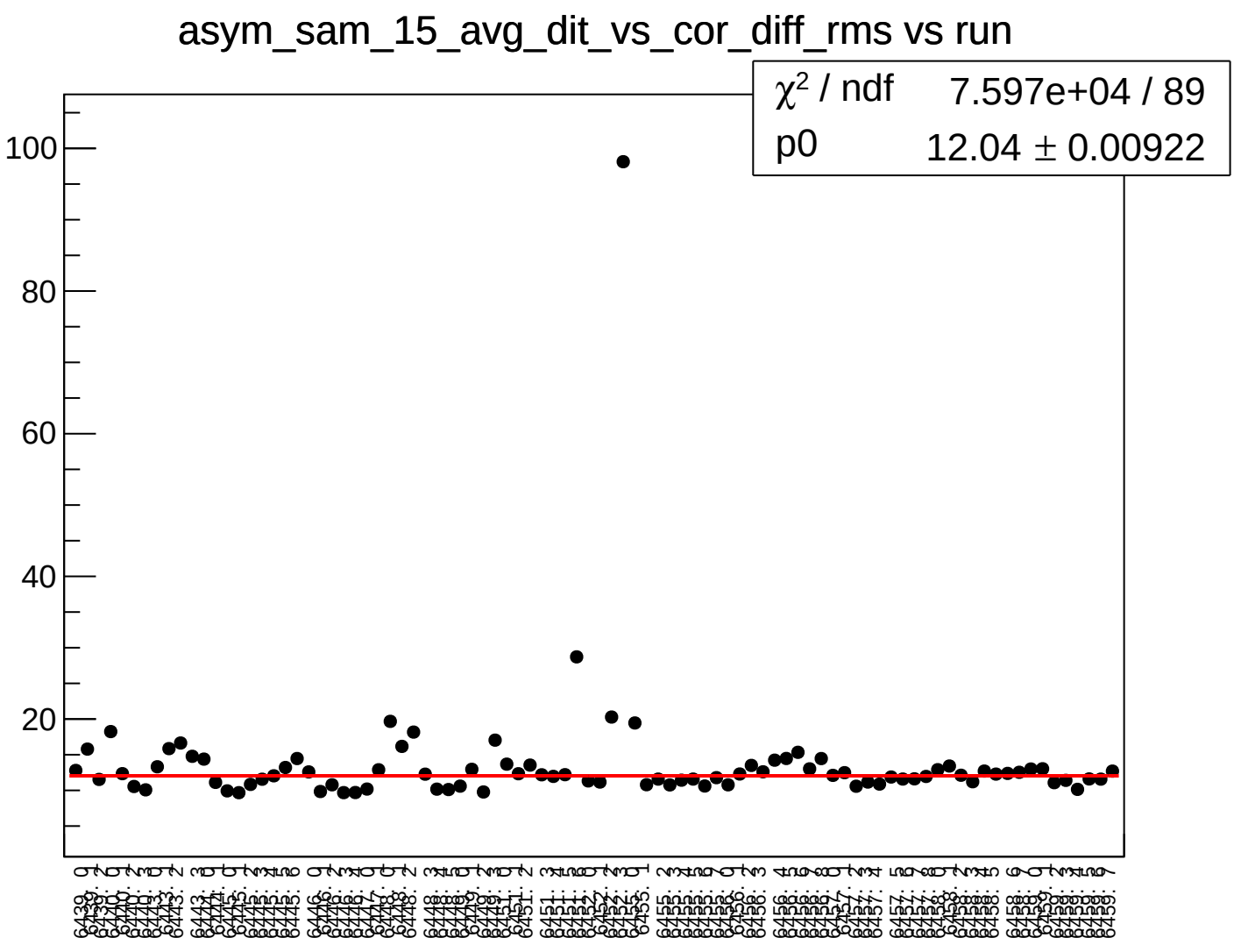

asym_sam_15_avg_rms vs run
χ^2 / ndf 1.557e+04 / 89
p0 294.6 ± 0.2217
440
420
400
380
360
340
320
300
280
260
240
220

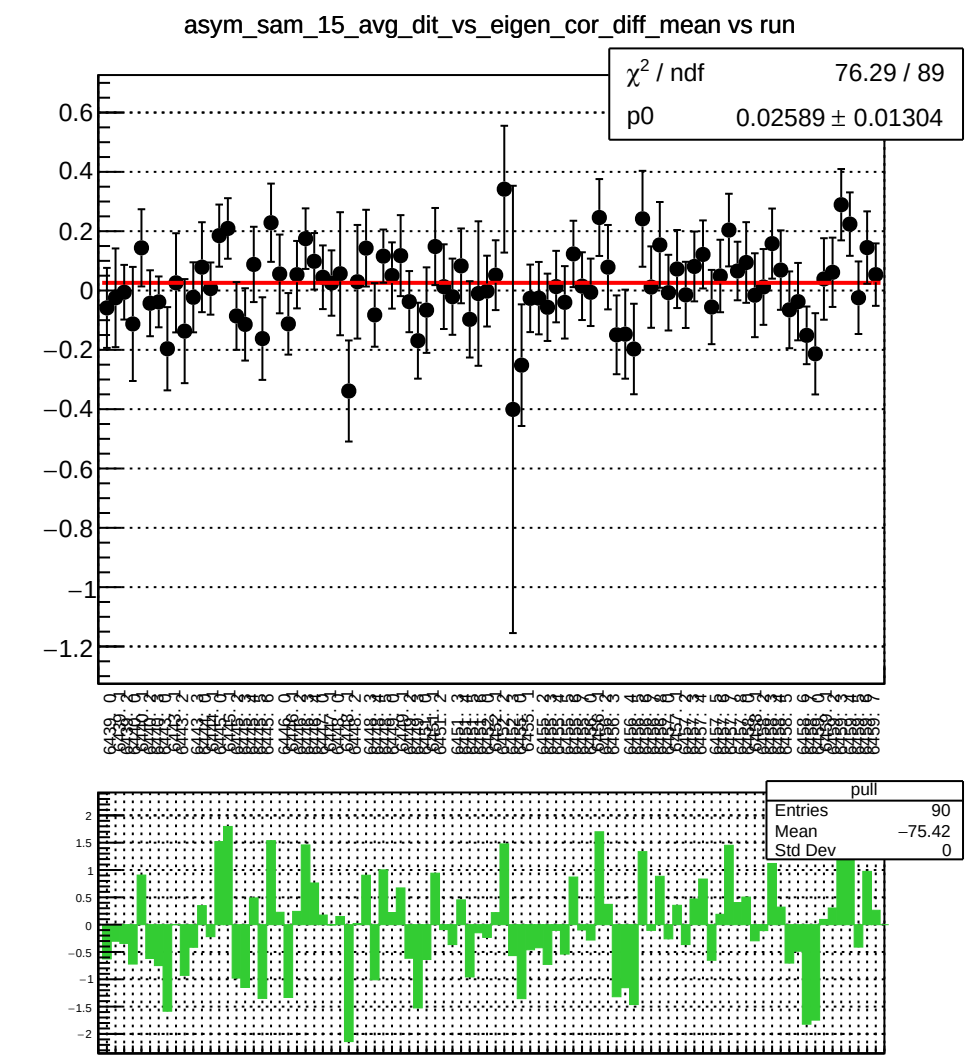

asym_sam_15_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 97.68 / 89
p0 1.818e−15 ± 7.666e−15
0.2
0
−0.2
−0.4
−0.6
pull
Entries 90
Mean 73.73
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.1044
Std Dev 1.037
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

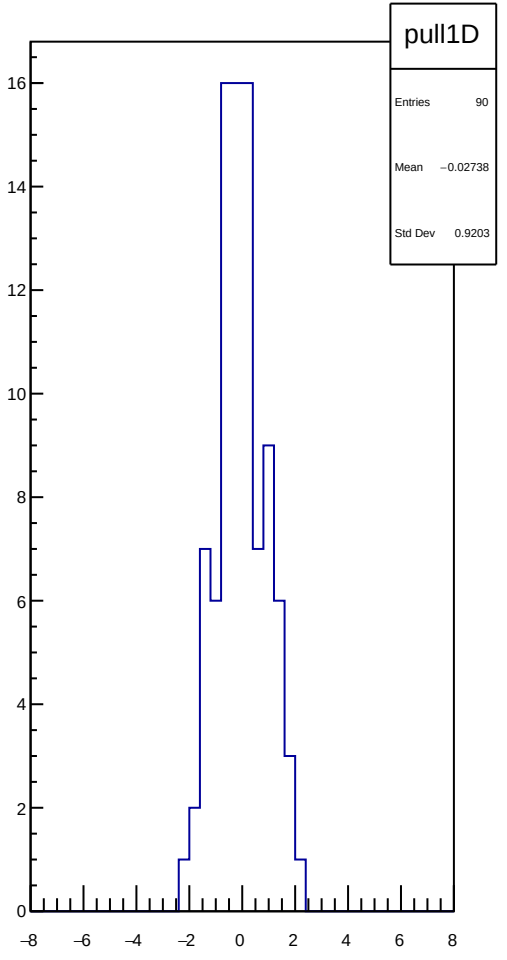

asym_sam_15_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.116e+06 / 89
p0 4.422e−12 ± 5.421e−15
0.025
0.02
0.015
0.01
0.005
0

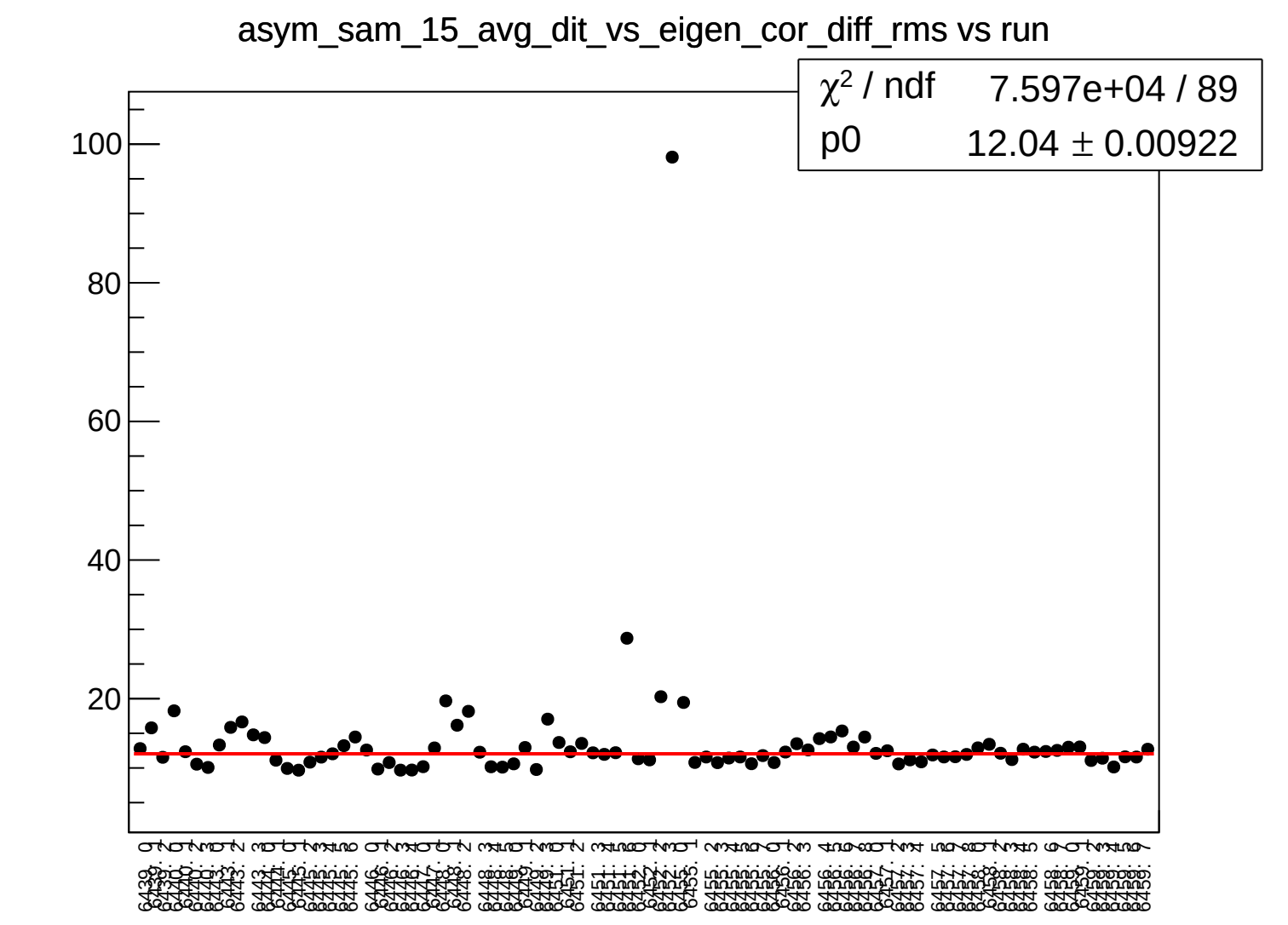

asym_sam_15_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 76.29 / 89
p0 0.02589 ± 0.01304
pull
Entries 90
Mean −75.42
Std Dev 0

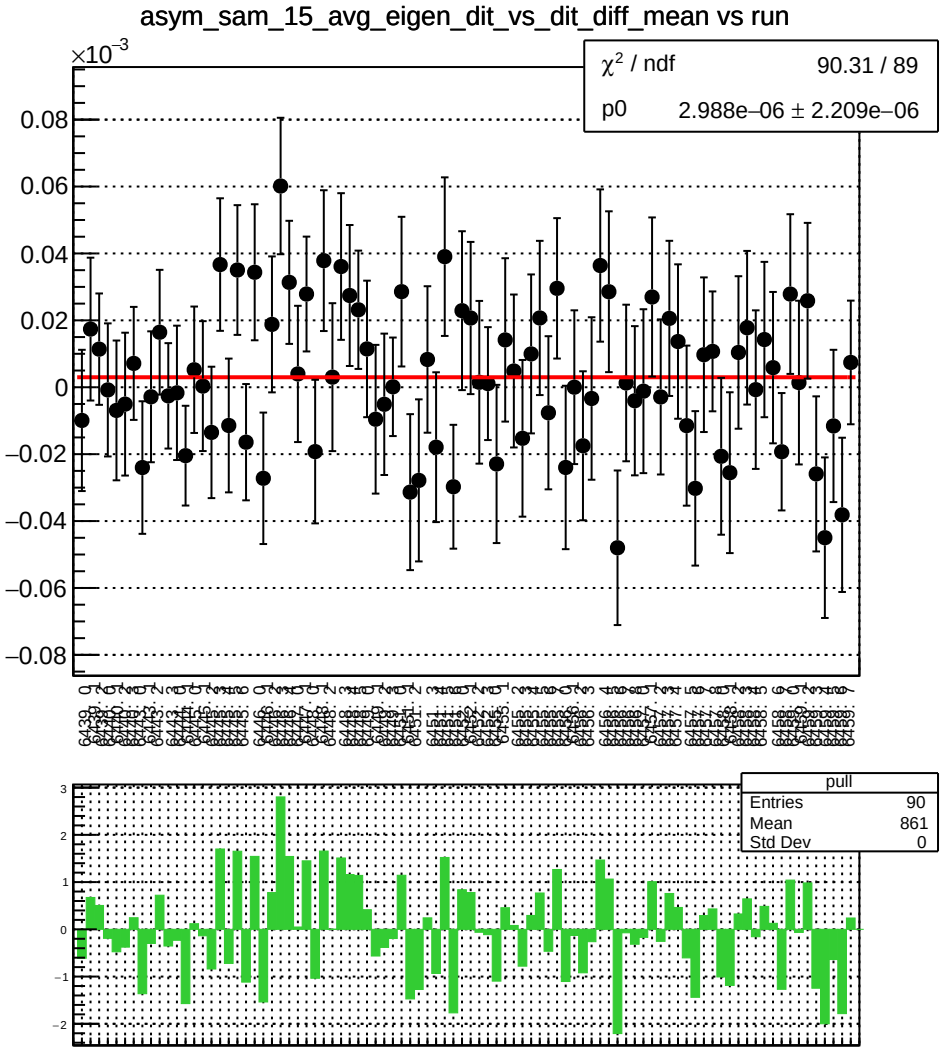

pull1D
Entries 90
Mean −0.02738
Std Dev 0.9203

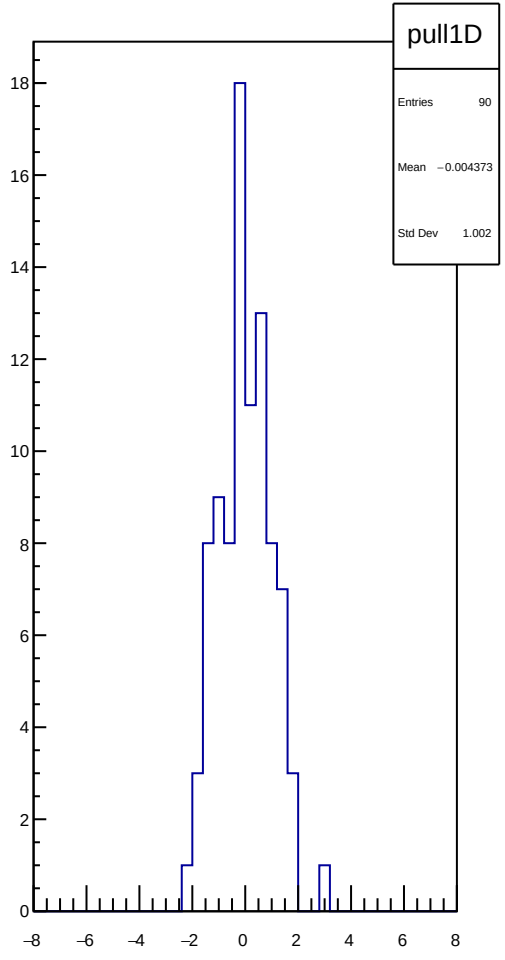

asym_sam_15_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.597e+04 / 89
p0 12.04 ± 0.00922
100
80
60
40
20

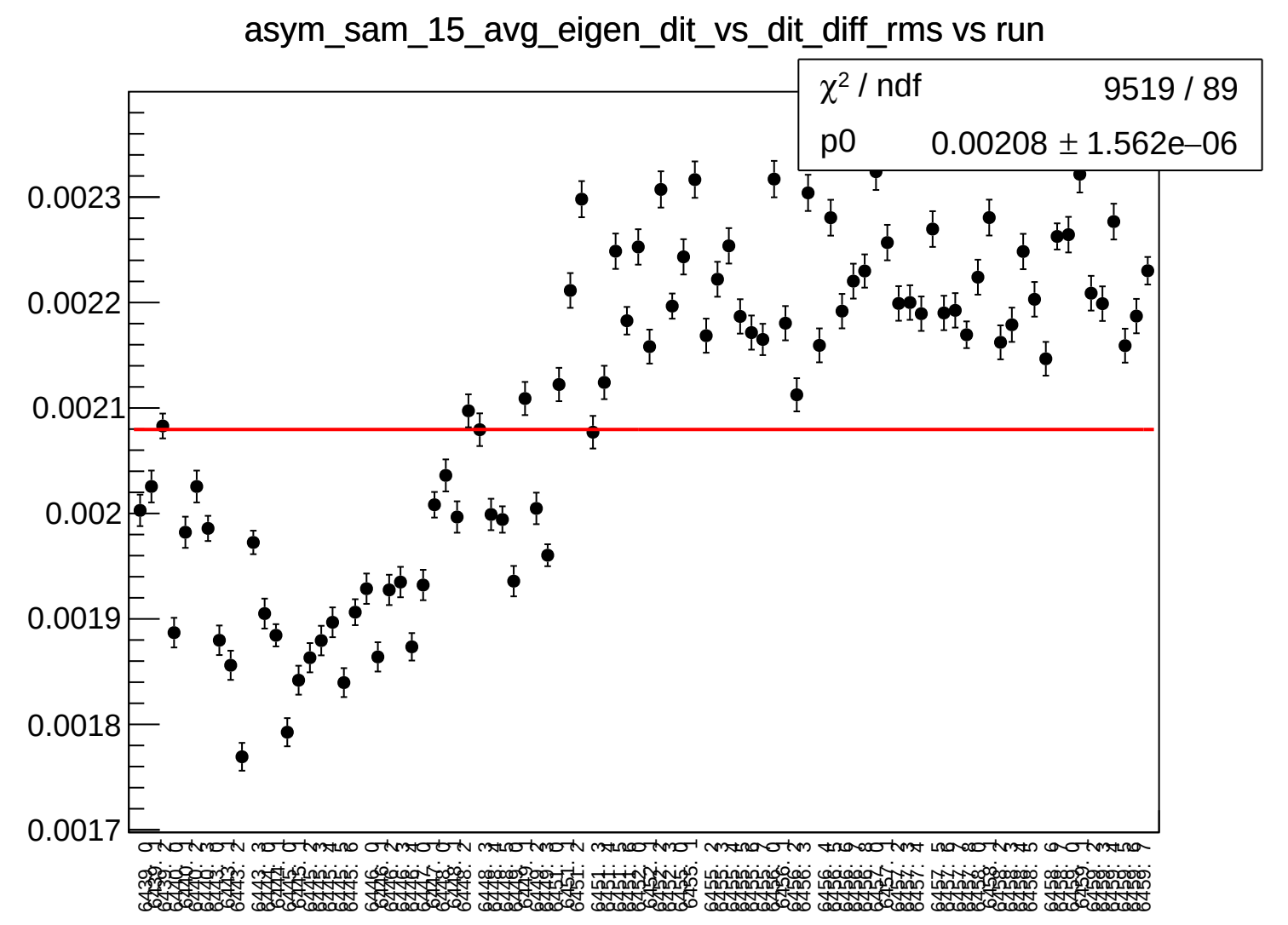

asym_sam_15_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.29 / 89
p0 0.02589 ± 0.01304
pull
Entries 90
Mean −75.42
Std Dev 0

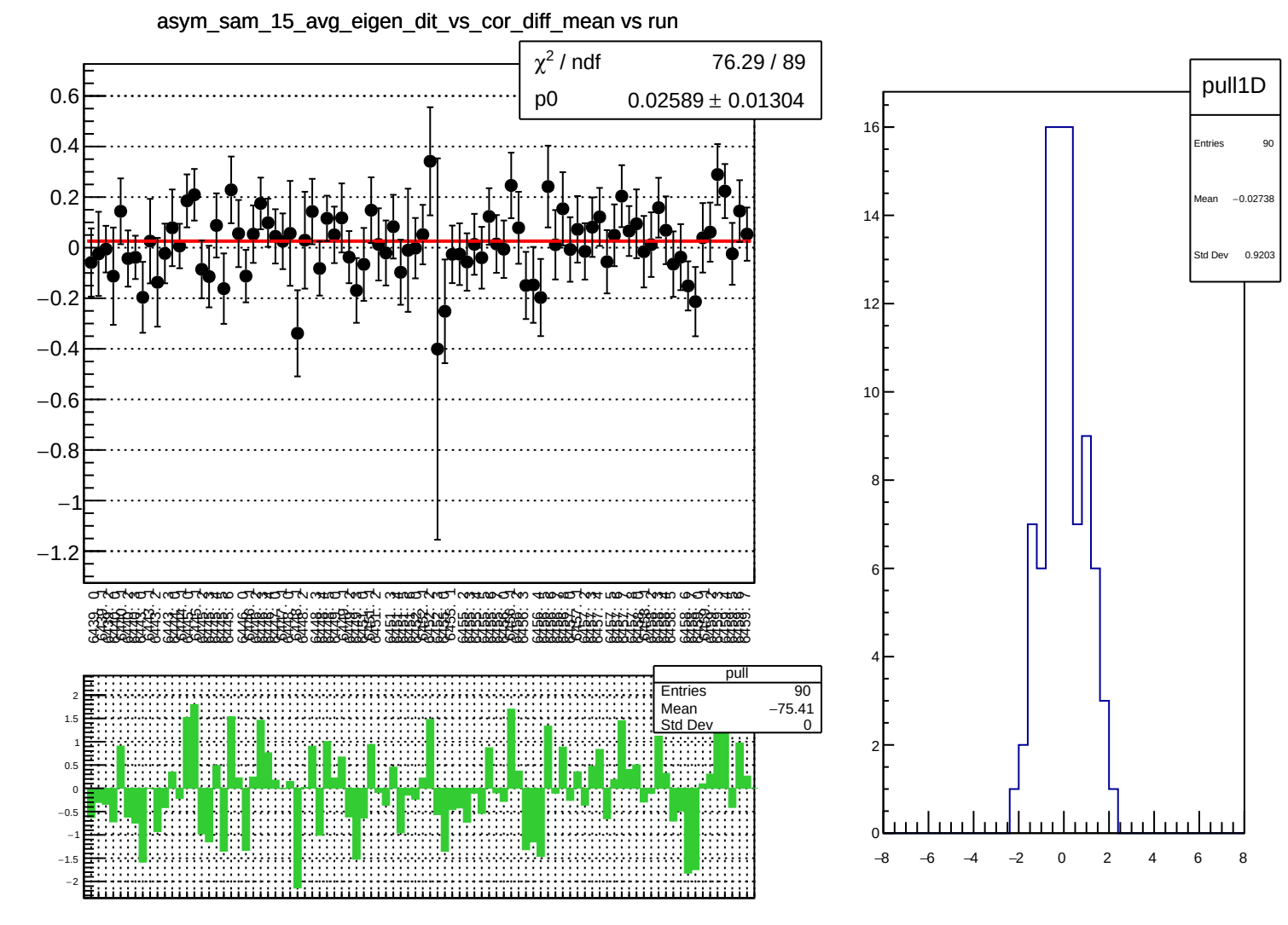

pull1D
Entries 90
Mean −0.02738
Std Dev 0.9203

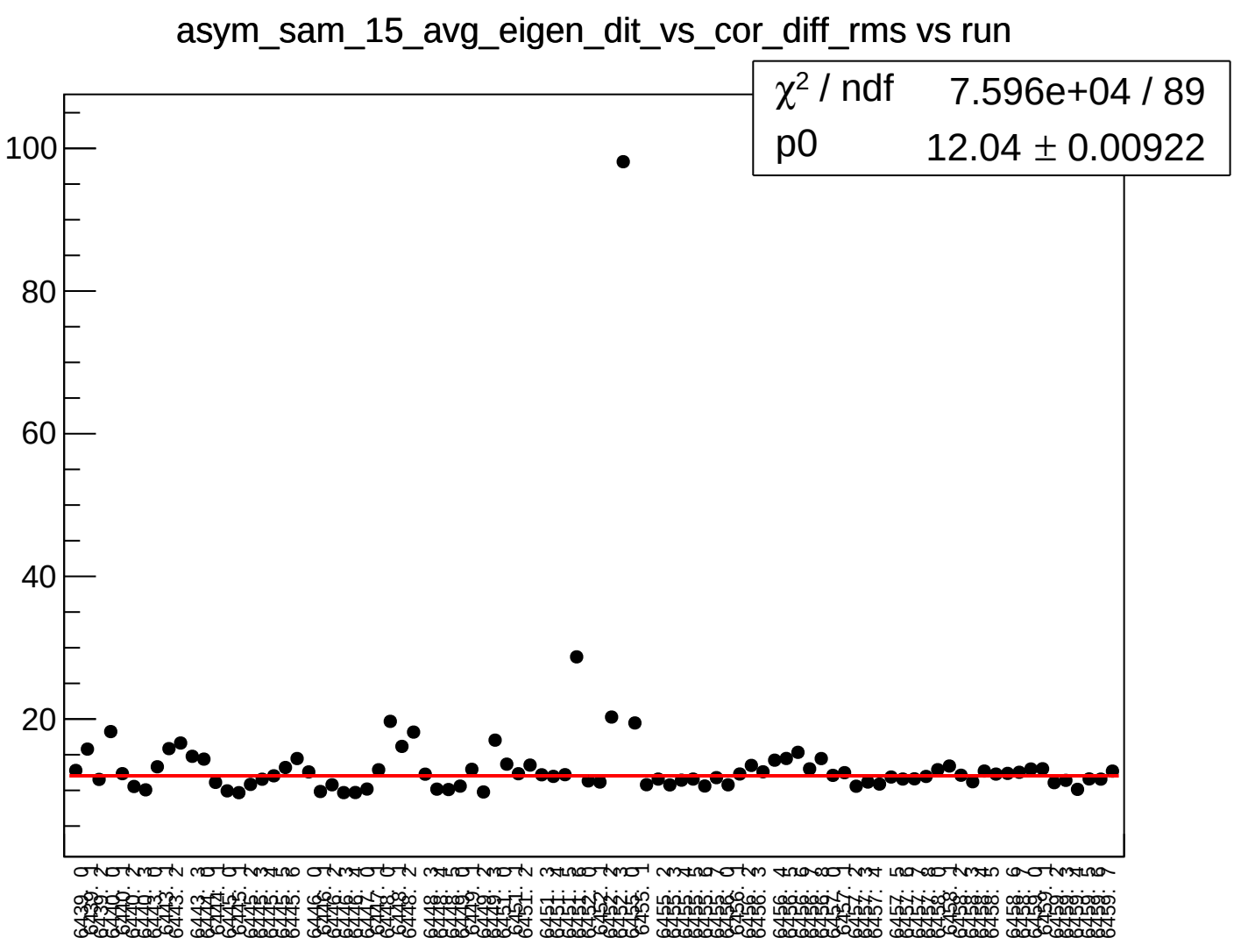

asym_sam_15_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.597e+04 / 89
p0 12.04 ± 0.00922
100
80
60
40
20

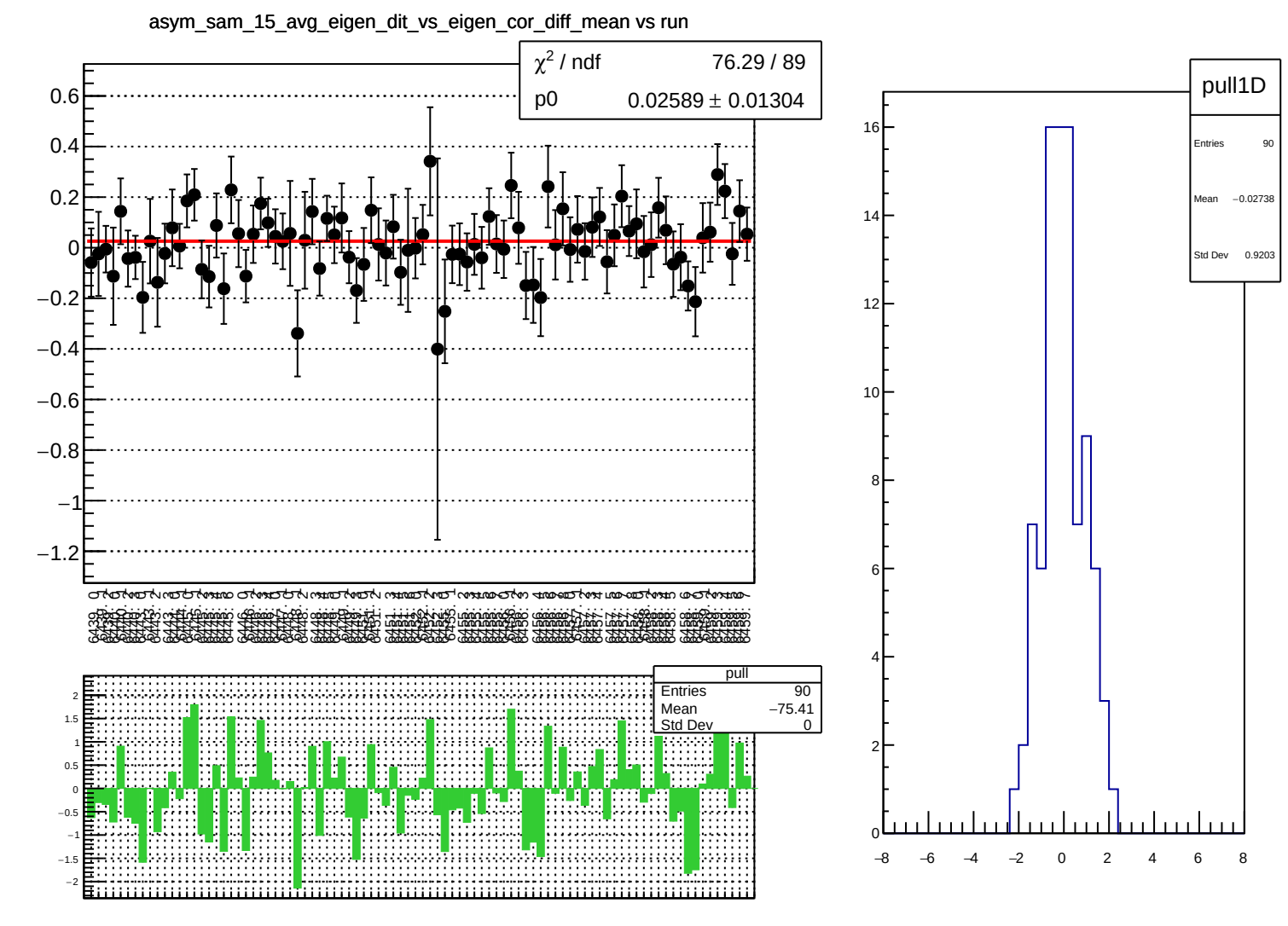

asym_sam_15_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.31 / 89
p0 2.988e−06 ± 2.209e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 90
Mean 861
Std Dev 0
3
2
1
0
−1
−2

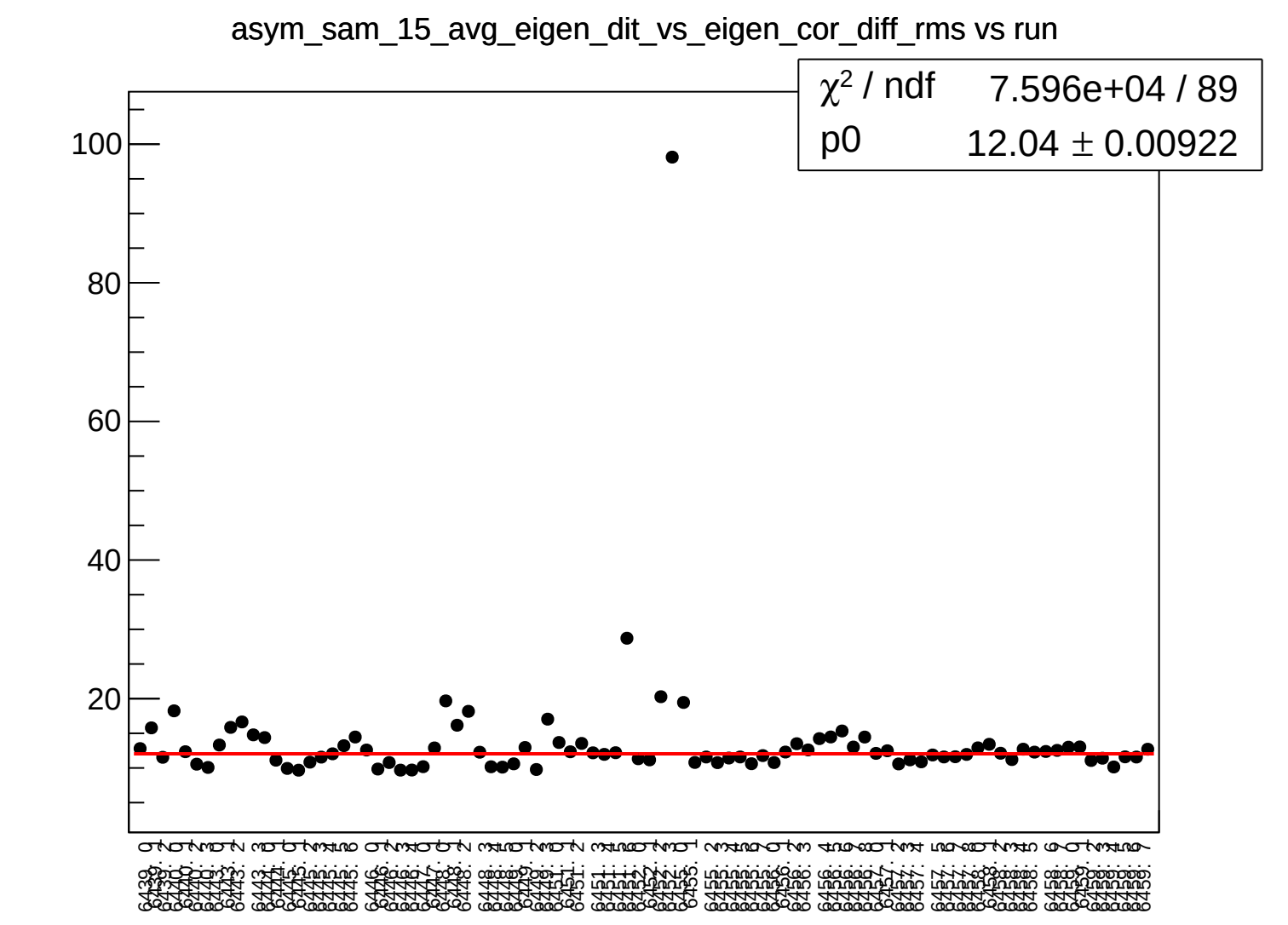

pull1D
Entries 90
Mean −0.004373
Std Dev 1.002
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

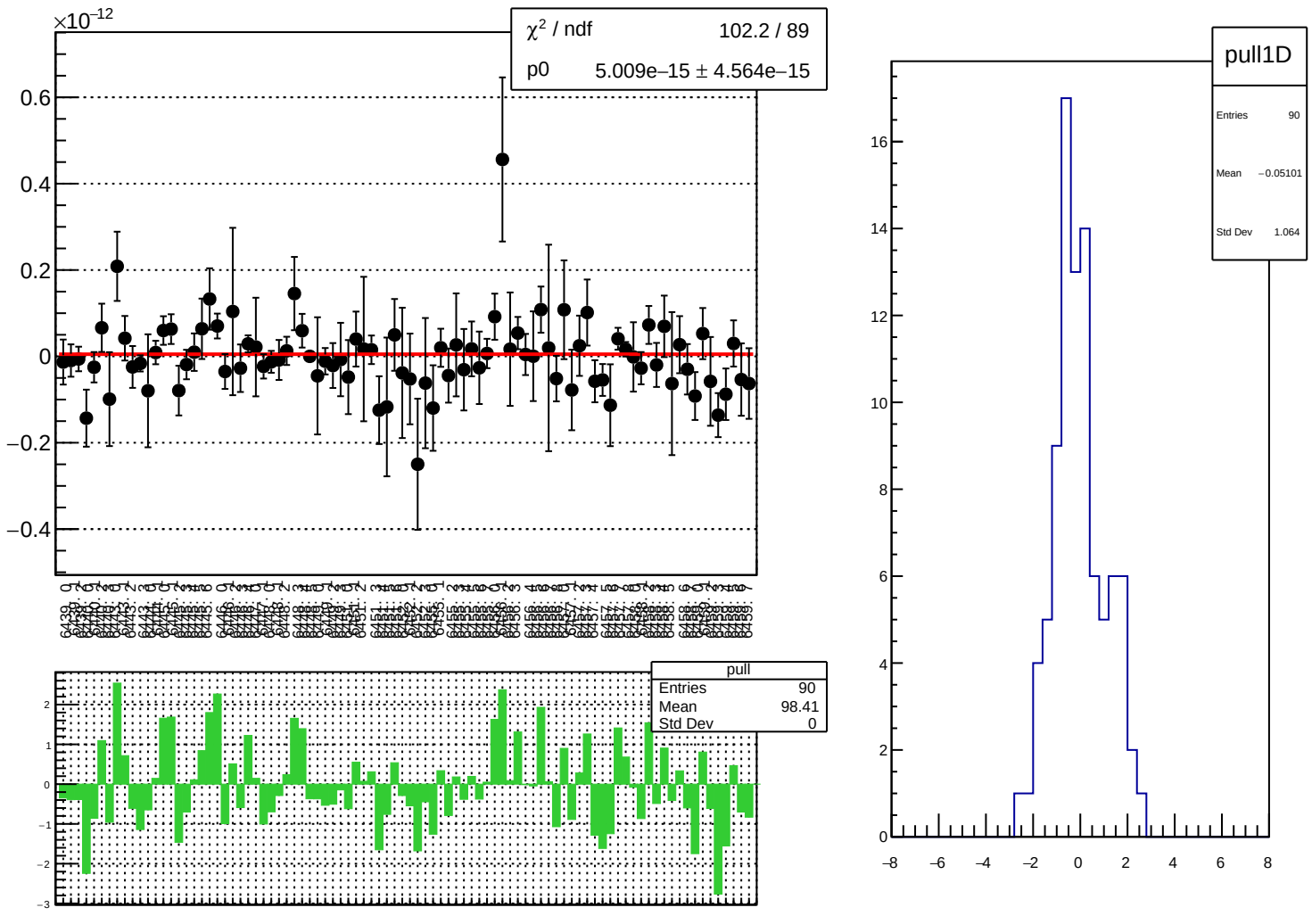

asym_sam_15_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9519 / 89
p0 0.00208 ± 1.562e−06
0.0023
0.0022
0.0021
0.002
0.0019
0.0018
0.0017

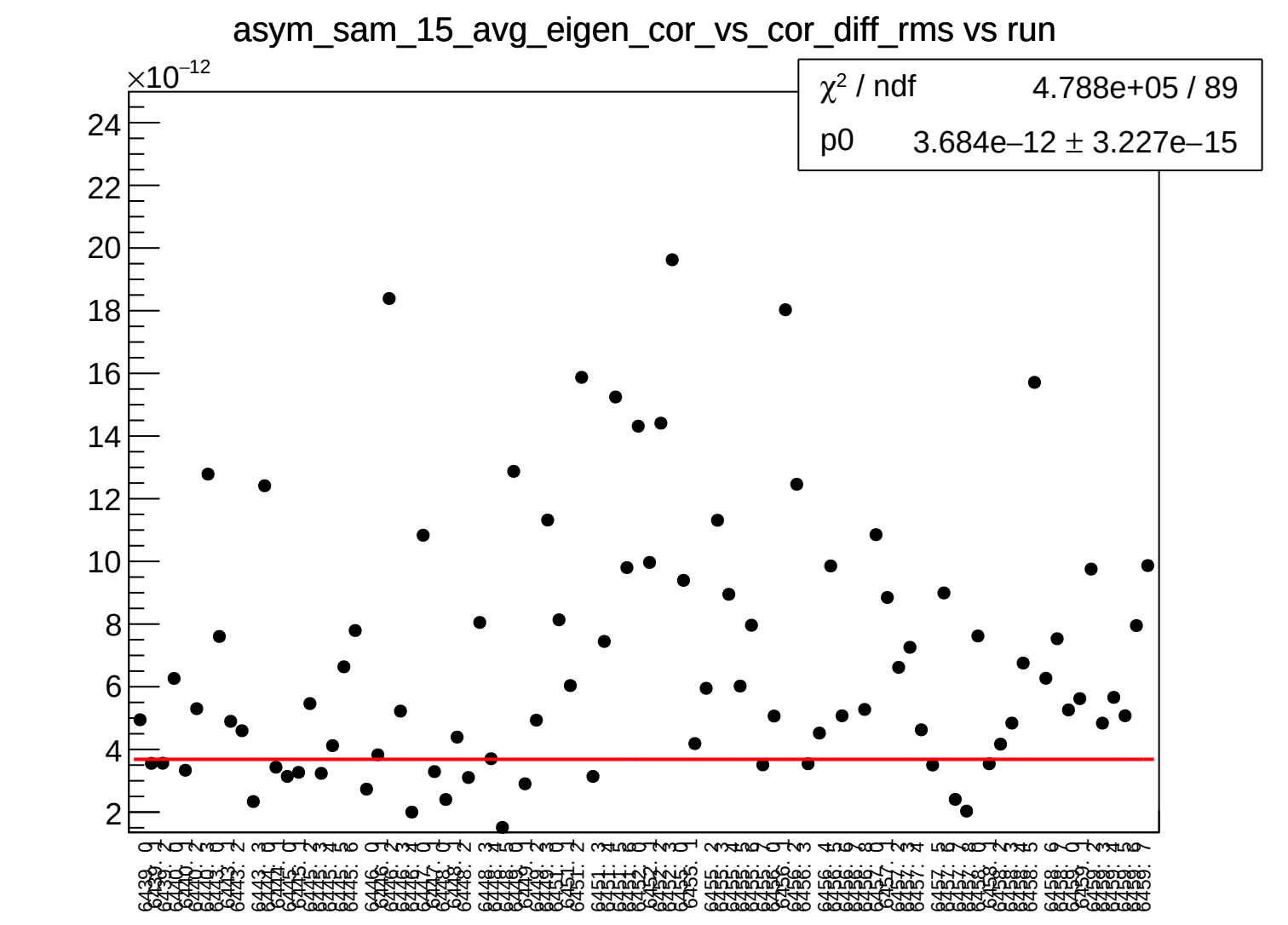

asym_sam_15_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.29 / 89
p0 0.02589 ± 0.01304
pull
Entries 90
Mean −75.41
Std Dev 0
pull1D
Entries 90
Mean −0.02738
Std Dev 0.9203

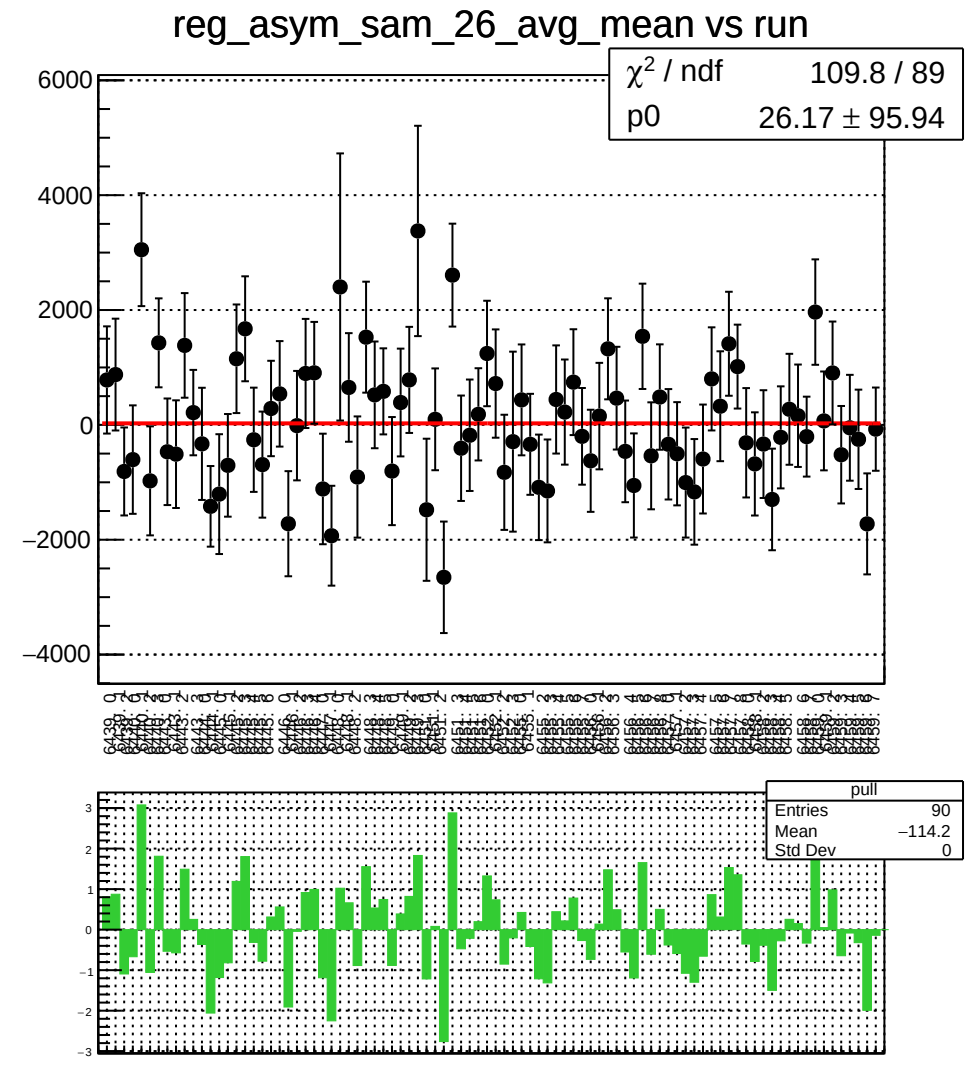

asym_sam_15_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.596e+04 / 89
p0 12.04 ± 0.00922
100
80
60
40
20

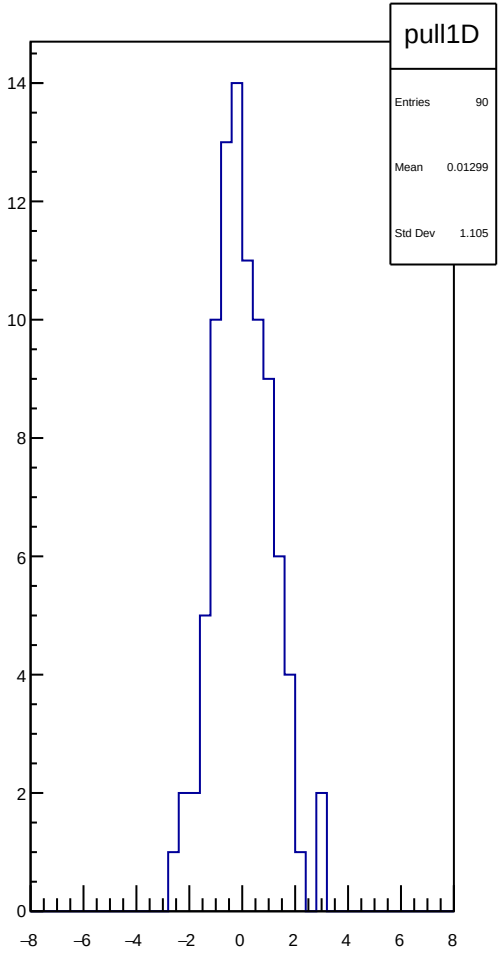

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.29 / 89
p0 0.02589 ± 0.01304
pull
Entries 90
Mean −75.41
Std Dev 0
pull1D
Entries 90
Mean −0.02738
Std Dev 0.9203

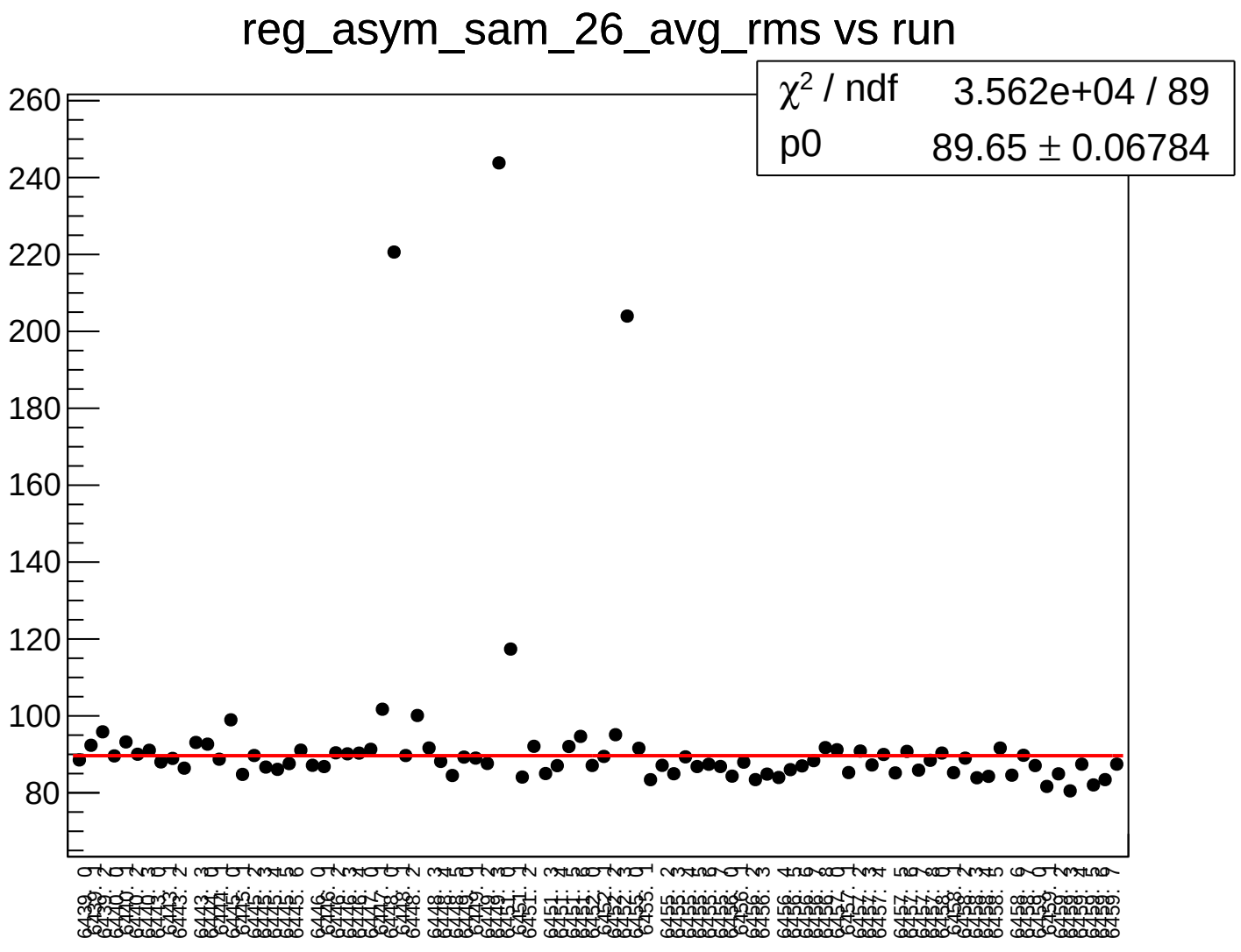

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.596e+04 / 89
p0 12.04 ± 0.00922
100
80
60
40
20

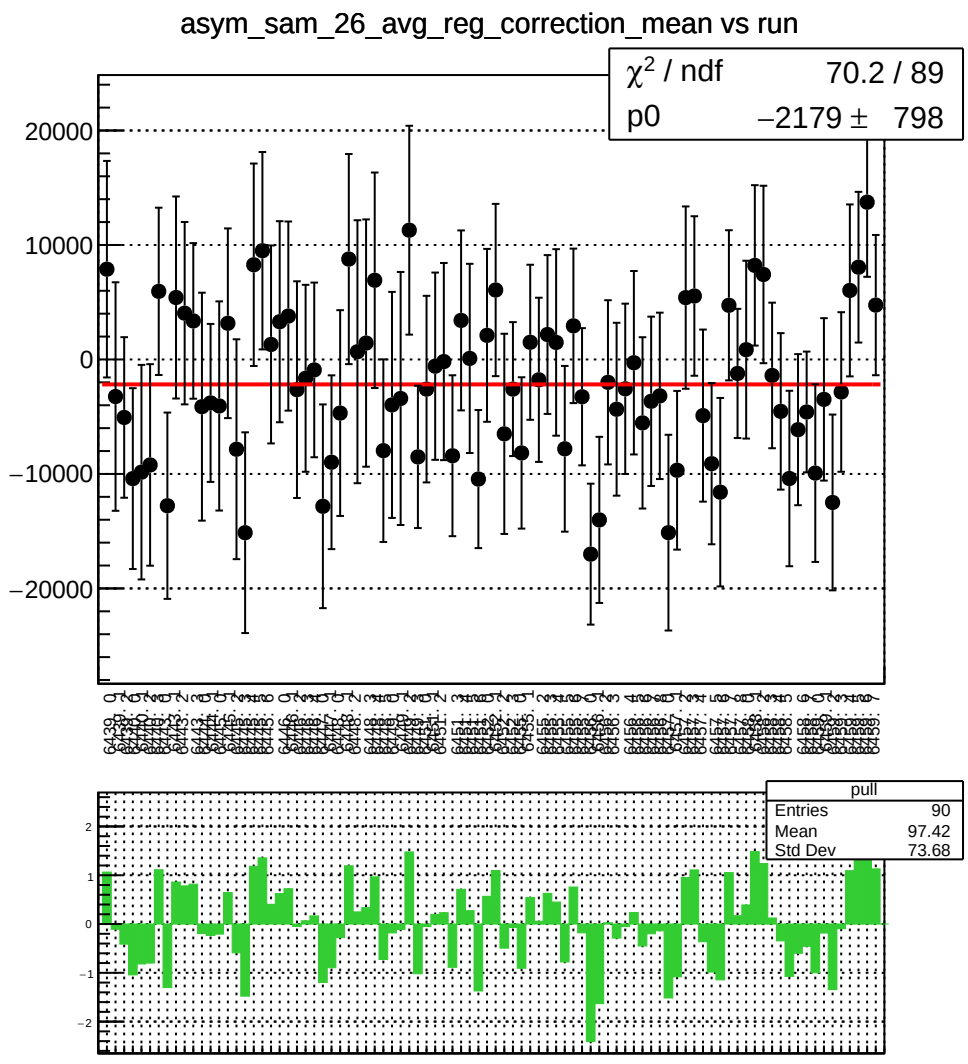

asym_sam_15_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 102.2 / 89
p0 5.009e−15 ± 4.564e−15
0.6
0.4
0.2
0
−0.2
−0.4
pull
Entries 90
Mean 98.41
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 90
Mean −0.05101
Std Dev 1.064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

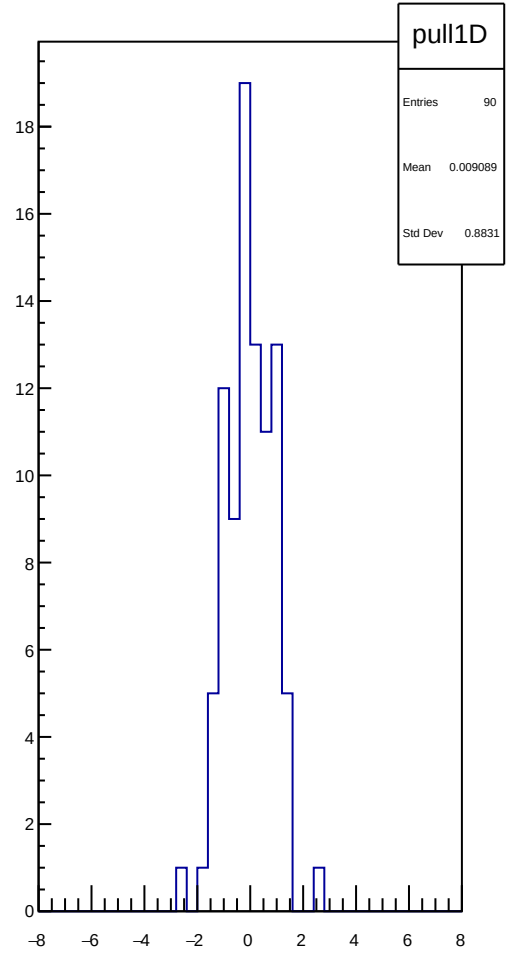

asym_sam_15_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.788e+05 / 89
p0 3.684e−12 ± 3.227e−15
24
22
20
18
16
14
12
10
8
6
4
2

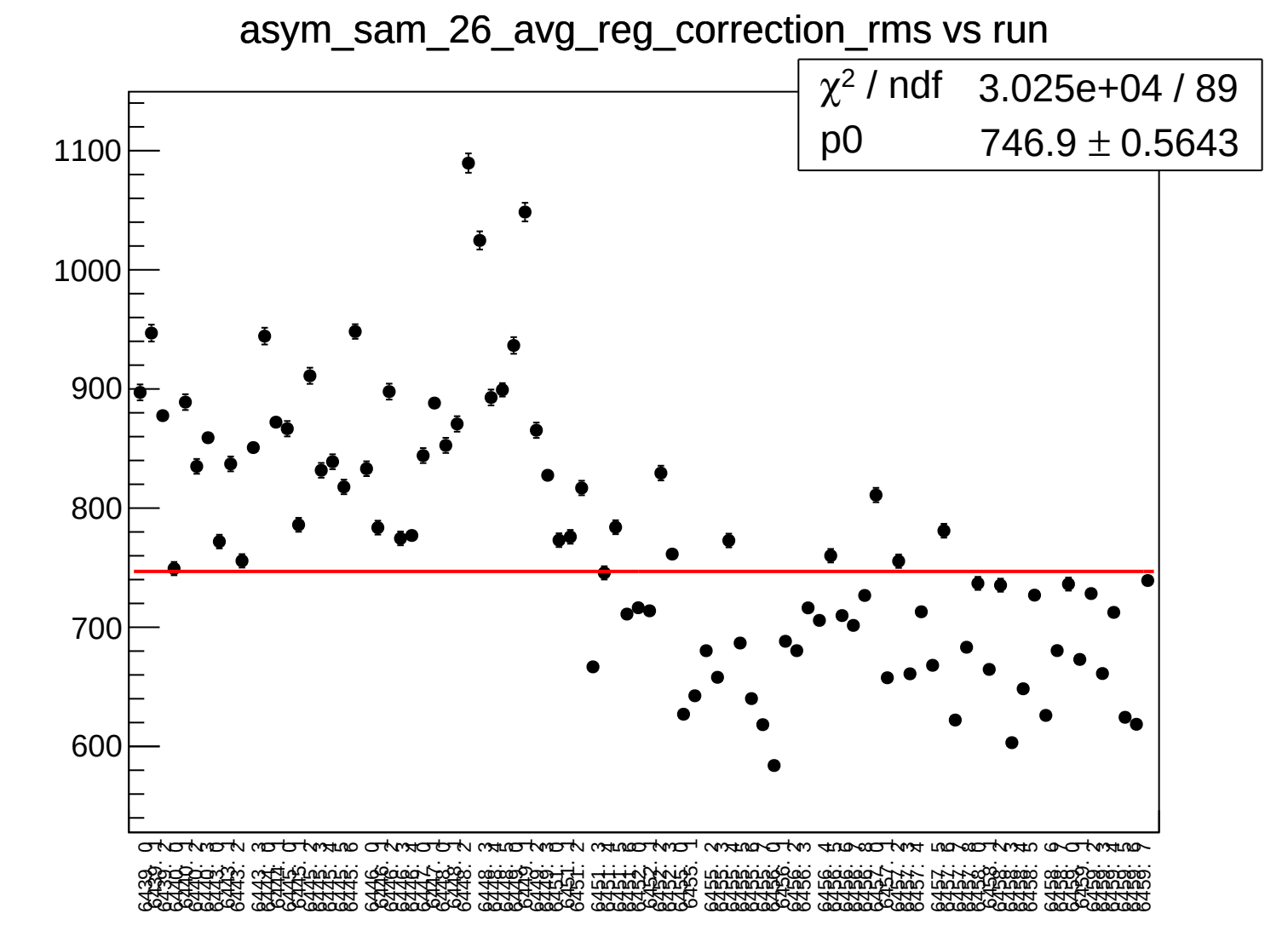

reg_asym_sam_26_avg_mean vs run
χ² / ndf 109.8 / 89
p0 26.17 ± 95.94
pull
Entries 90
Mean −114.2
Std Dev 0

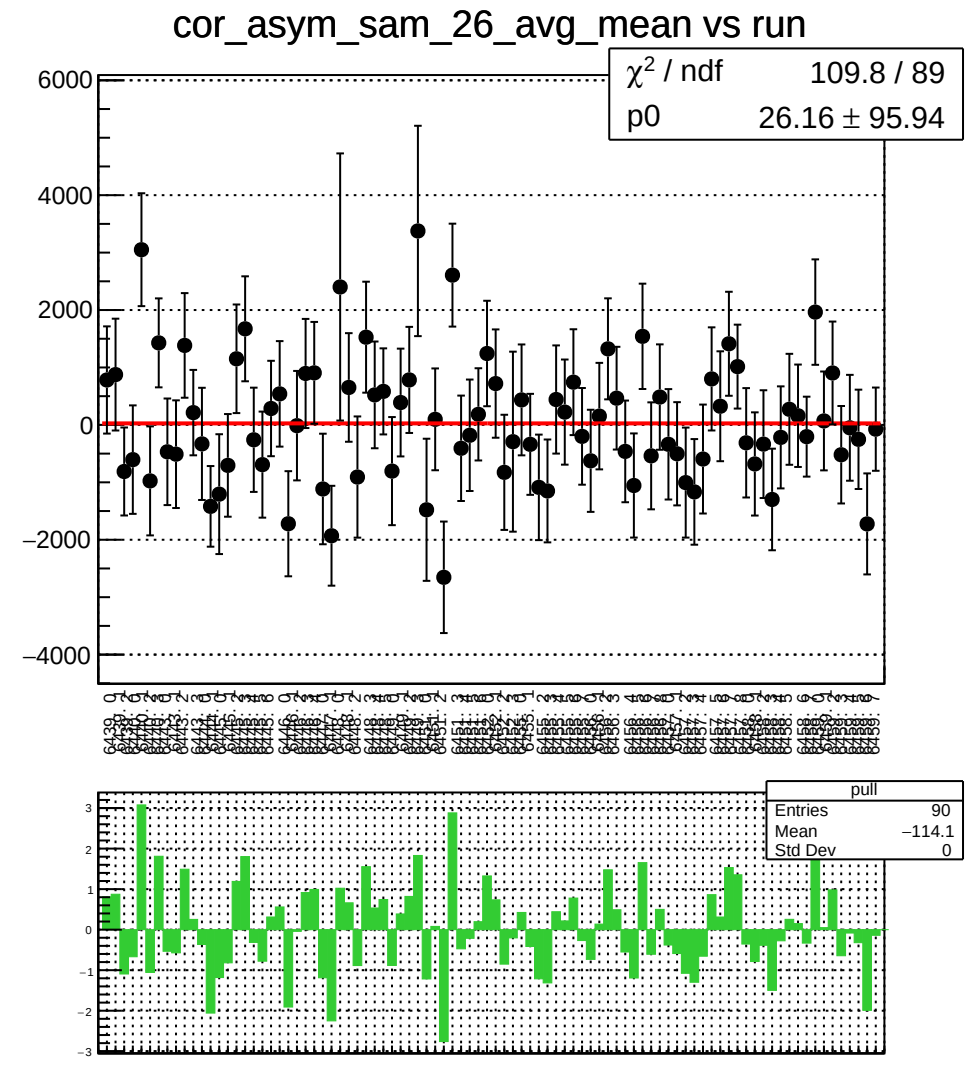

pull1D
Entries 90
Mean 0.01299
Std Dev 1.105

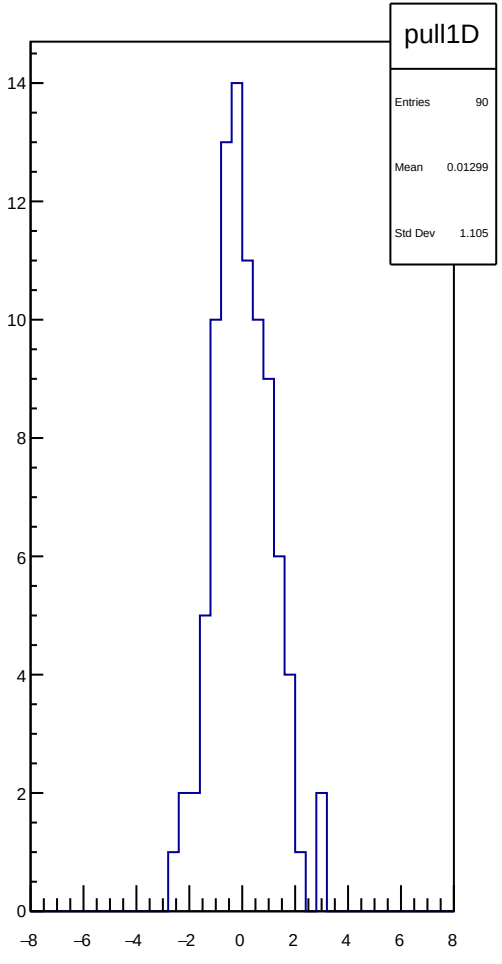

reg_asym_sam_26_avg_rms vs run
χ² / ndf 3.562e+04 / 89
p0 89.65 ± 0.06784
260
240
220
200
180
160
140
120
100
80

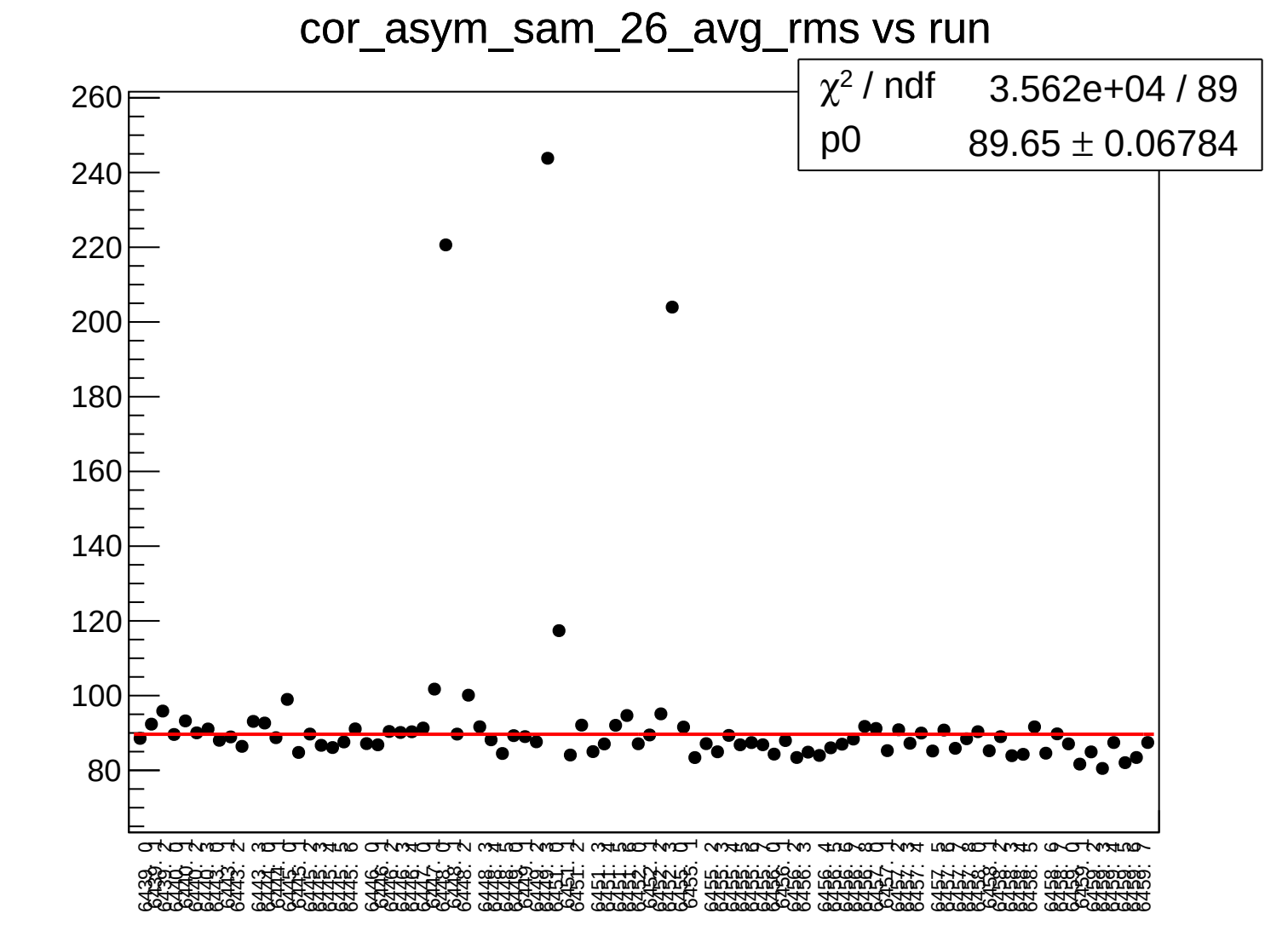

asym_sam_26_avg_reg_correction_mean vs run
χ² / ndf 70.2 / 89
p0 −2179 ± 798
20000
10000
0
−10000
−20000
pull
Entries 90
Mean 97.42
Std Dev 73.68
2
1
0
−1
−2

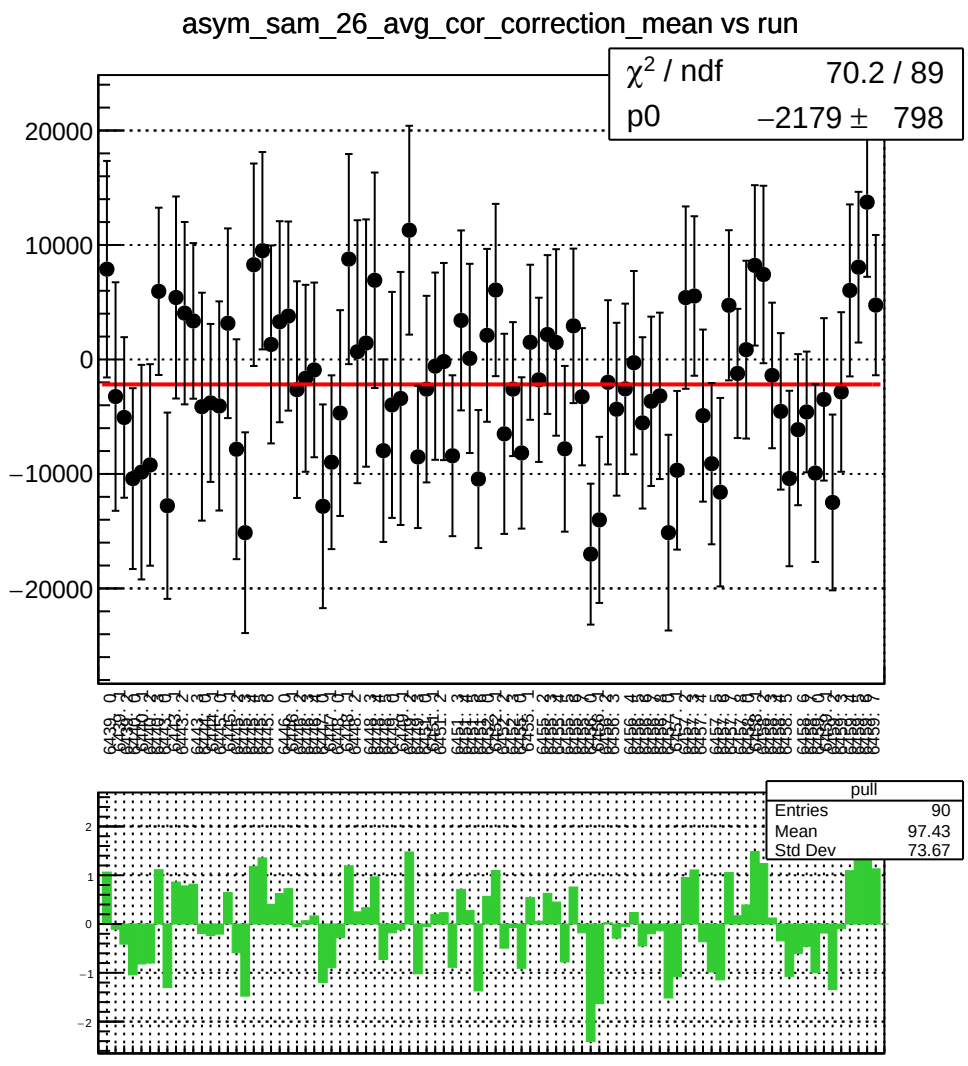

pull1D
Entries 90
Mean 0.009089
Std Dev 0.8831
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

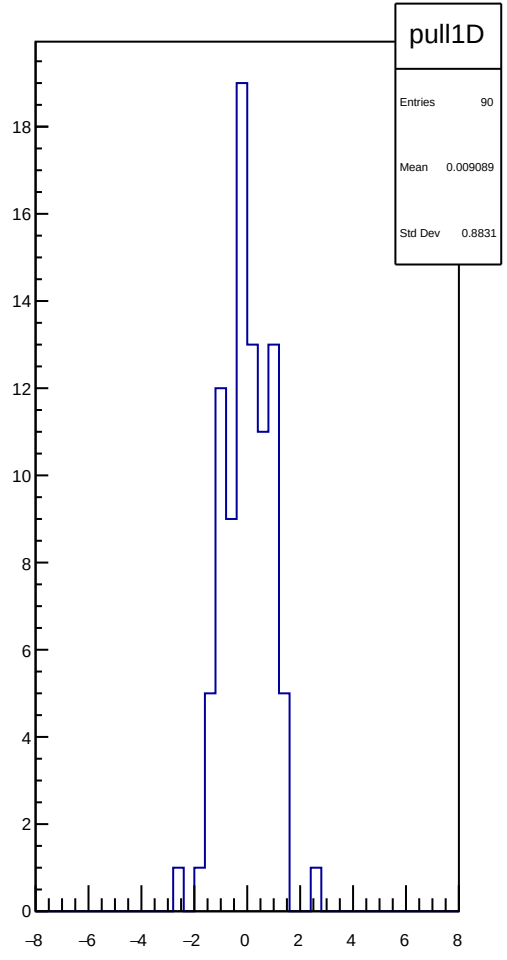

asym_sam_26_avg_reg_correction_rms vs run
χ² / ndf 3.025e+04 / 89
p0 746.9 ± 0.5643
1100
1000
900
800
700
600

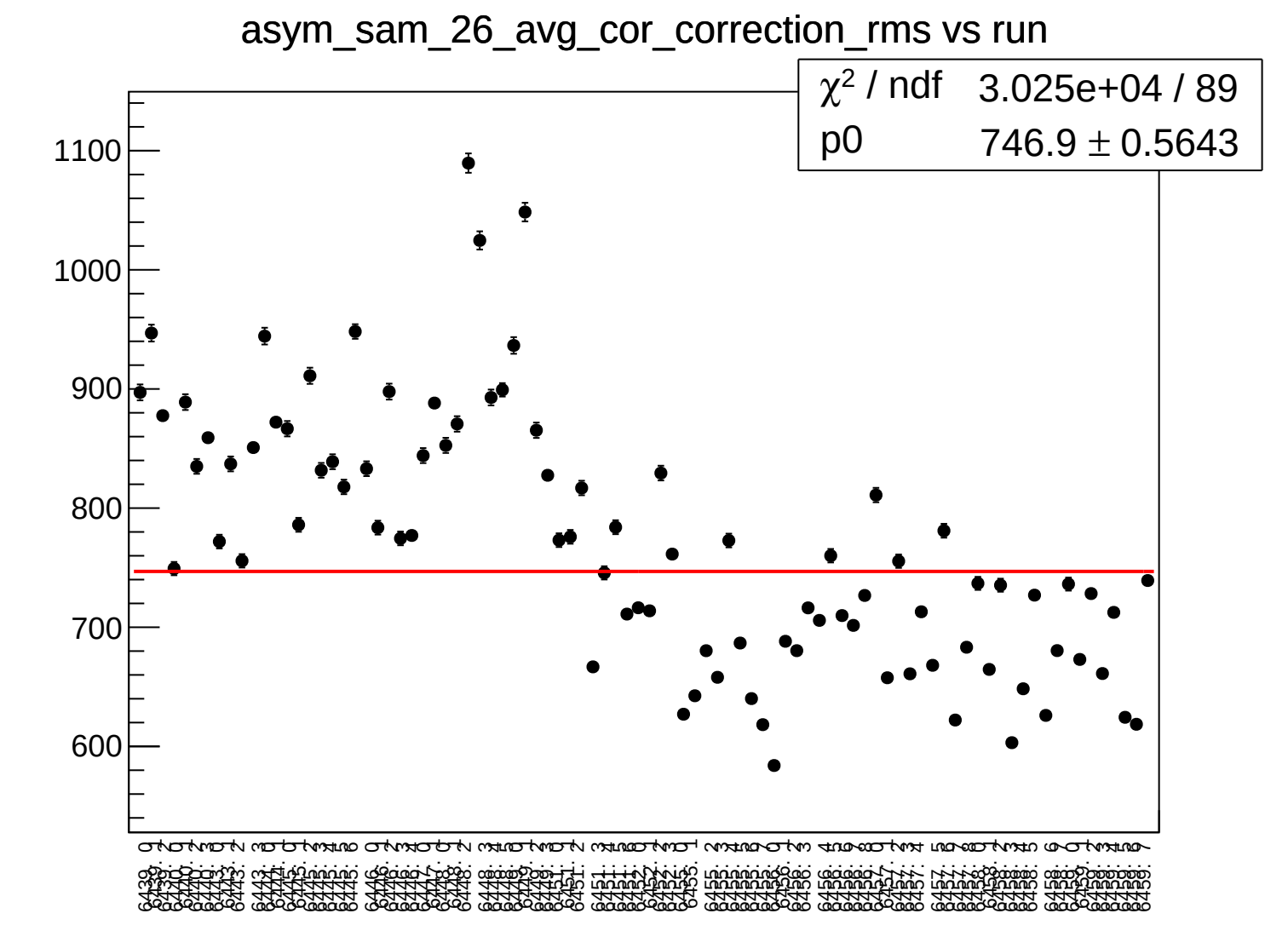

cor_asym_sam_26_avg_mean vs run
χ² / ndf 109.8 / 89
p0 26.16 ± 95.94
pull
Entries 90
Mean −114.1
Std Dev 0

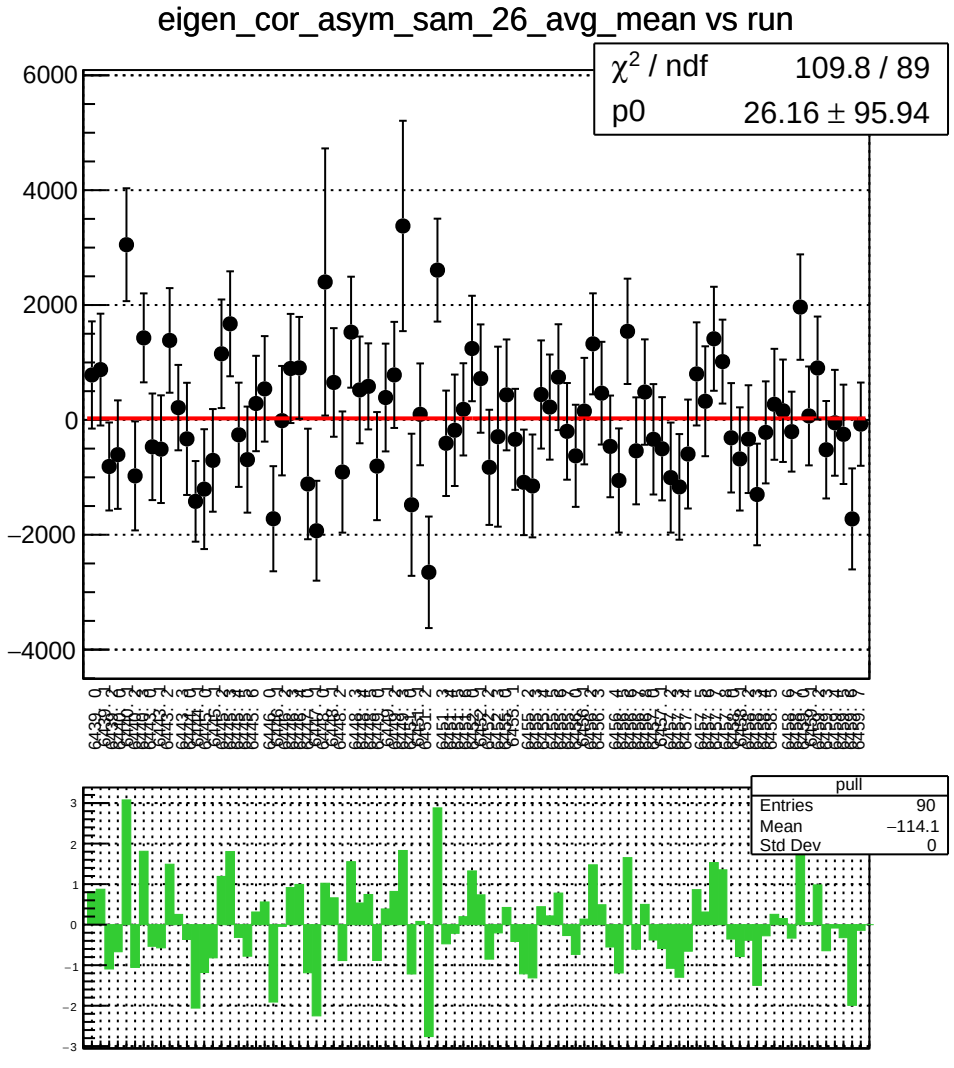

pull1D
Entries 90
Mean 0.01299
Std Dev 1.105

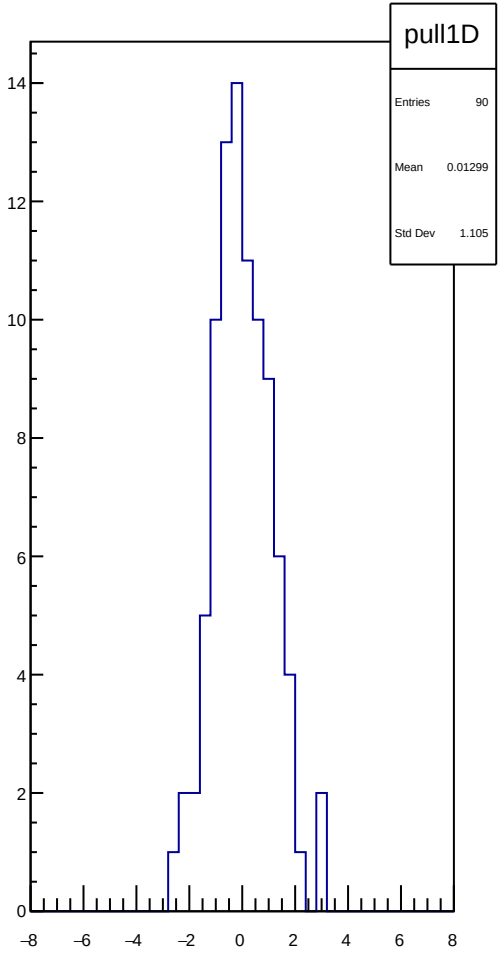

cor_asym_sam_26_avg_rms vs run
χ^2 / ndf 3.562e+04 / 89
p0 89.65 ± 0.06784
260
240
220
200
180
160
140
120
100
80

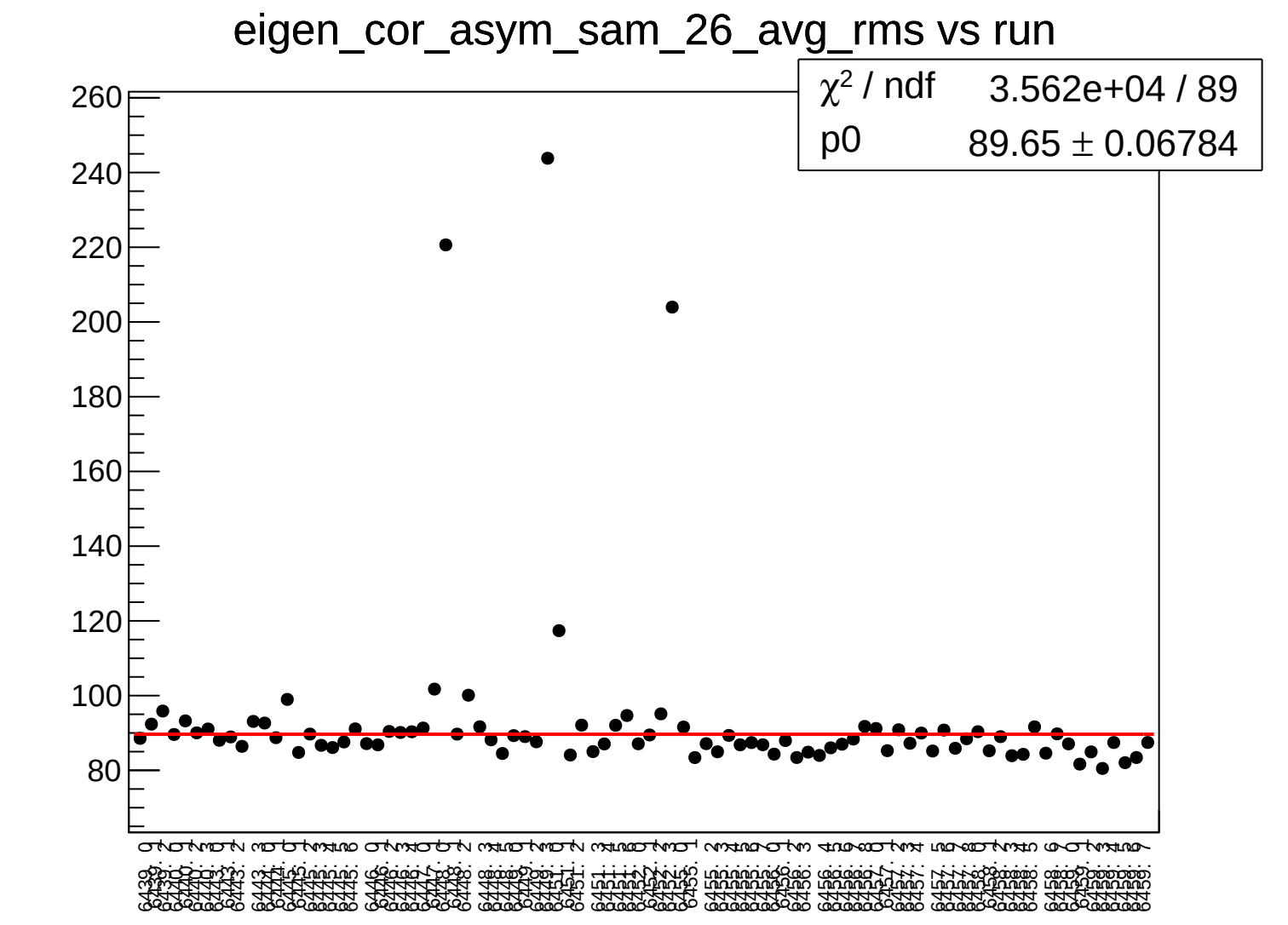

asym_sam_26_avg_cor_correction_mean vs run
χ² / ndf 70.2 / 89
p0 −2179 ± 798
20000
10000
0
−10000
−20000
pull
Entries 90
Mean 97.43
Std Dev 73.67
2
1
0
−1
−2

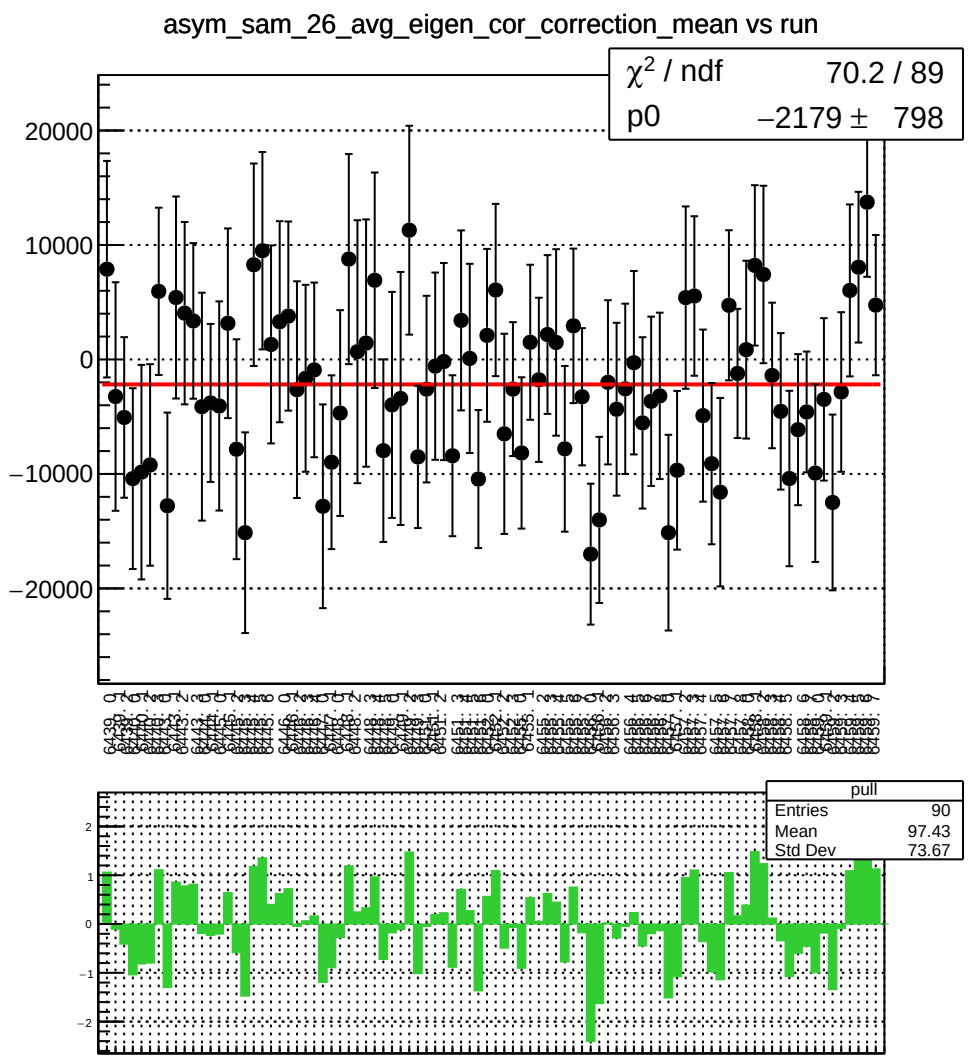

pull1D
Entries 90
Mean 0.009089
Std Dev 0.8831
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

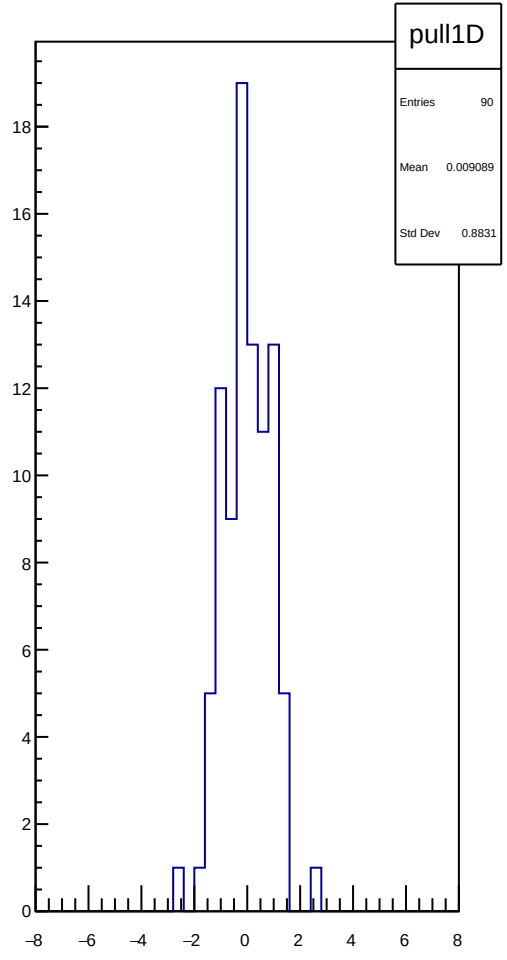

asym_sam_26_avg_cor_correction_rms vs run
χ² / ndf 3.025e+04 / 89
p0 746.9 ± 0.5643
1100
1000
900
800
700
600

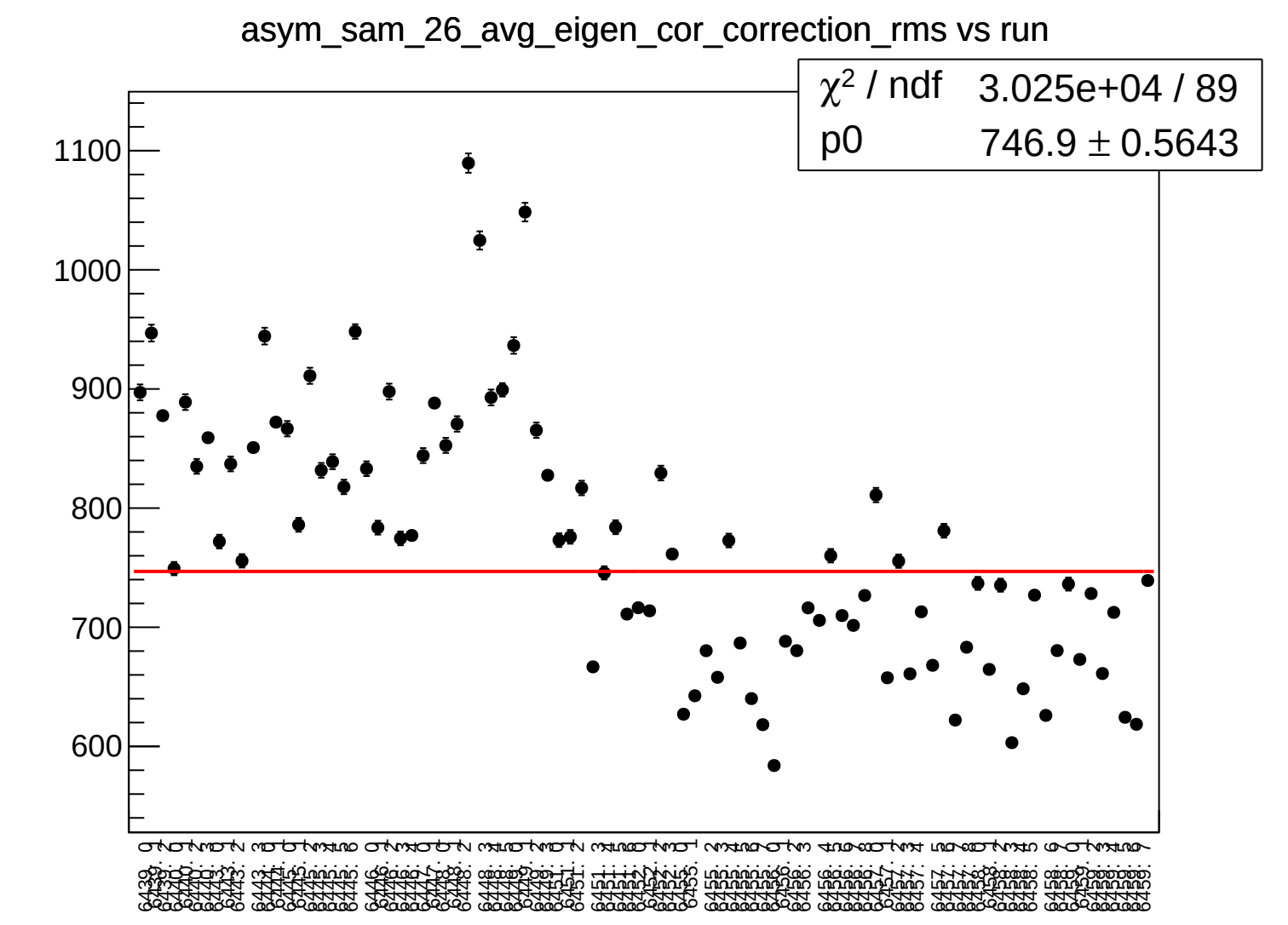

eigen_cor_asym_sam_26_avg_mean vs run
χ^2 / ndf 109.8 / 89
p0 26.16 ± 95.94
pull
Entries 90
Mean −114.1
Std Dev 0

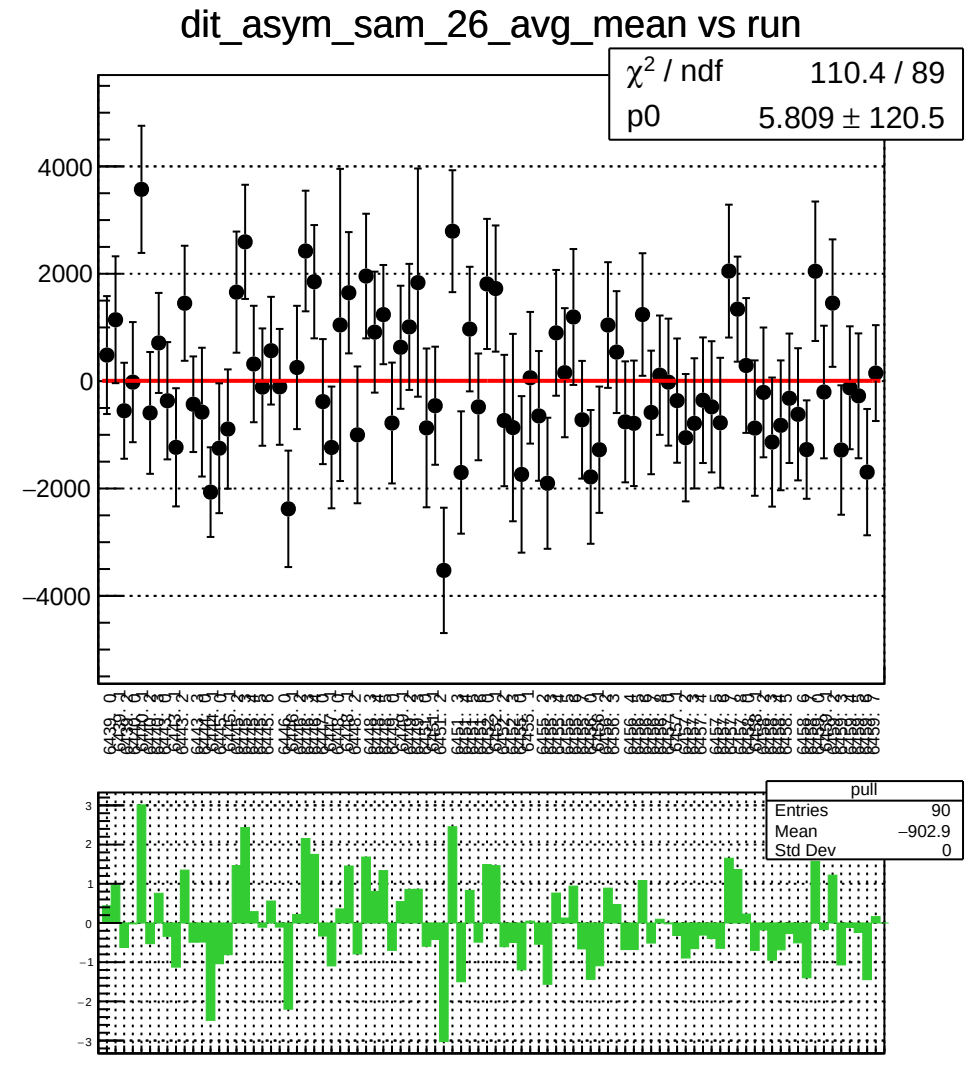

pull1D
Entries 90
Mean 0.01299
Std Dev 1.105

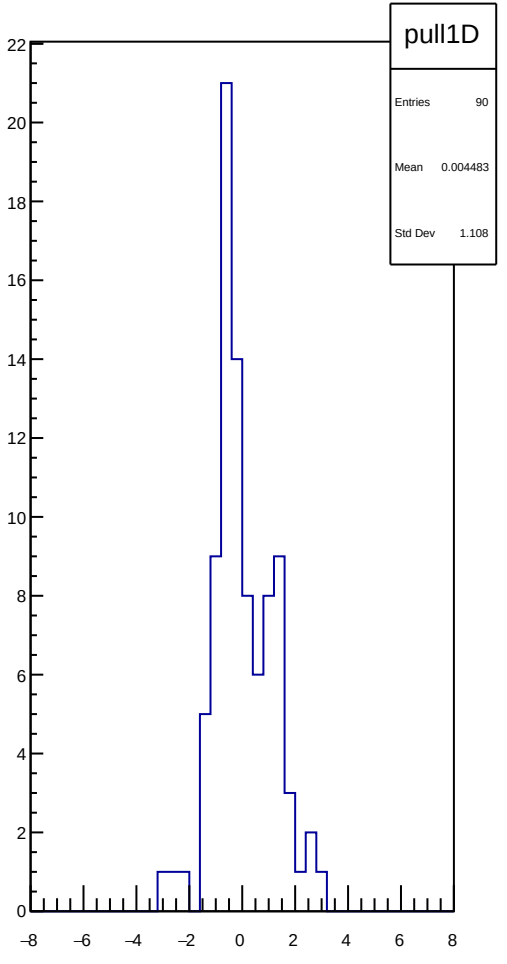

eigen_cor_asym_sam_26_avg_rms vs run
χ² / ndf 3.562e+04 / 89
p0 89.65 ± 0.06784
260
240
220
200
180
160
140
120
100
80

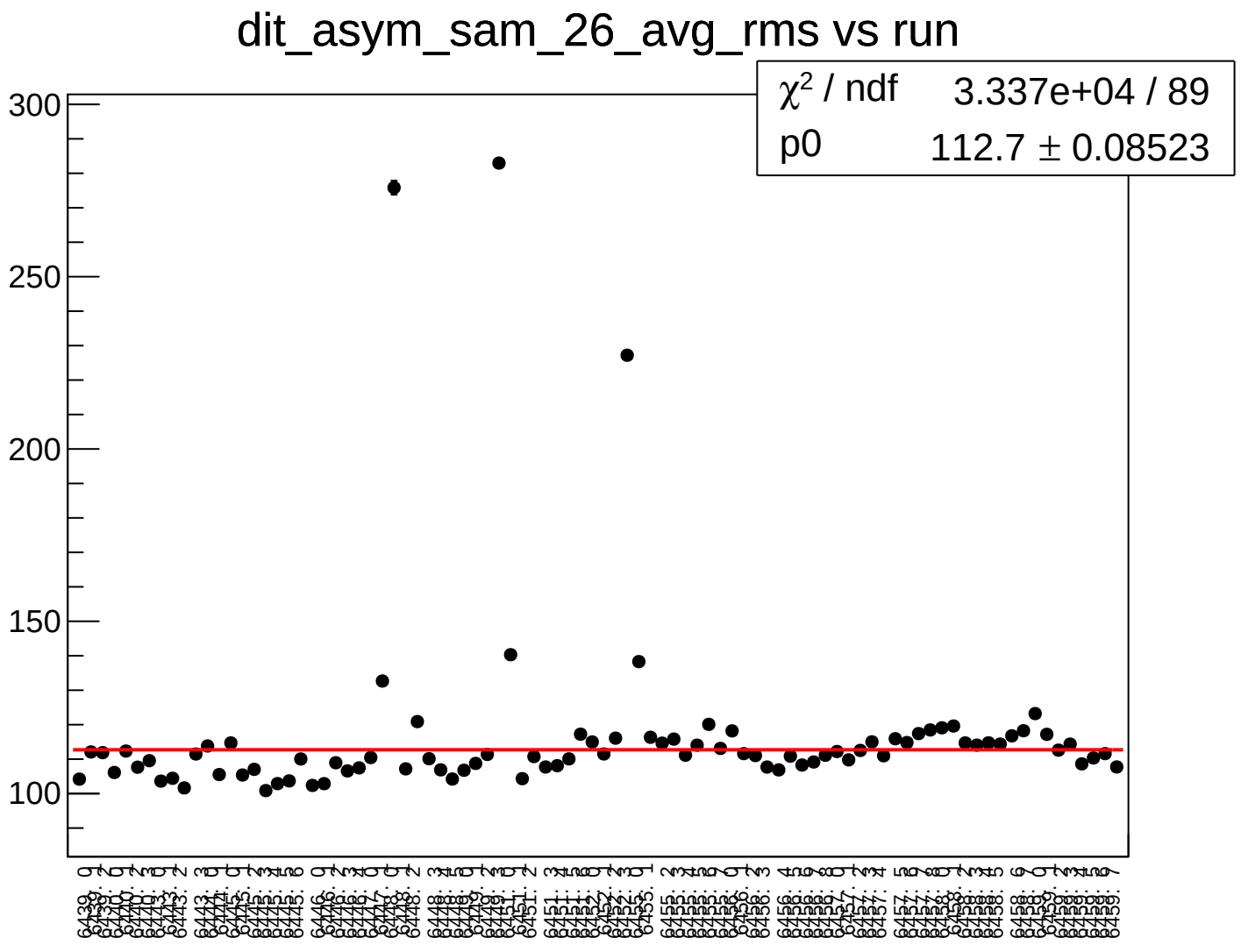

asym_sam_26_avg_eigen_cor_correction_mean vs run
χ² / ndf 70.2 / 89
p0 −2179 ± 798
20000
10000
0
−10000
−20000
pull
Entries 90
Mean 97.43
Std Dev 73.67
2
1
0
−1
−2

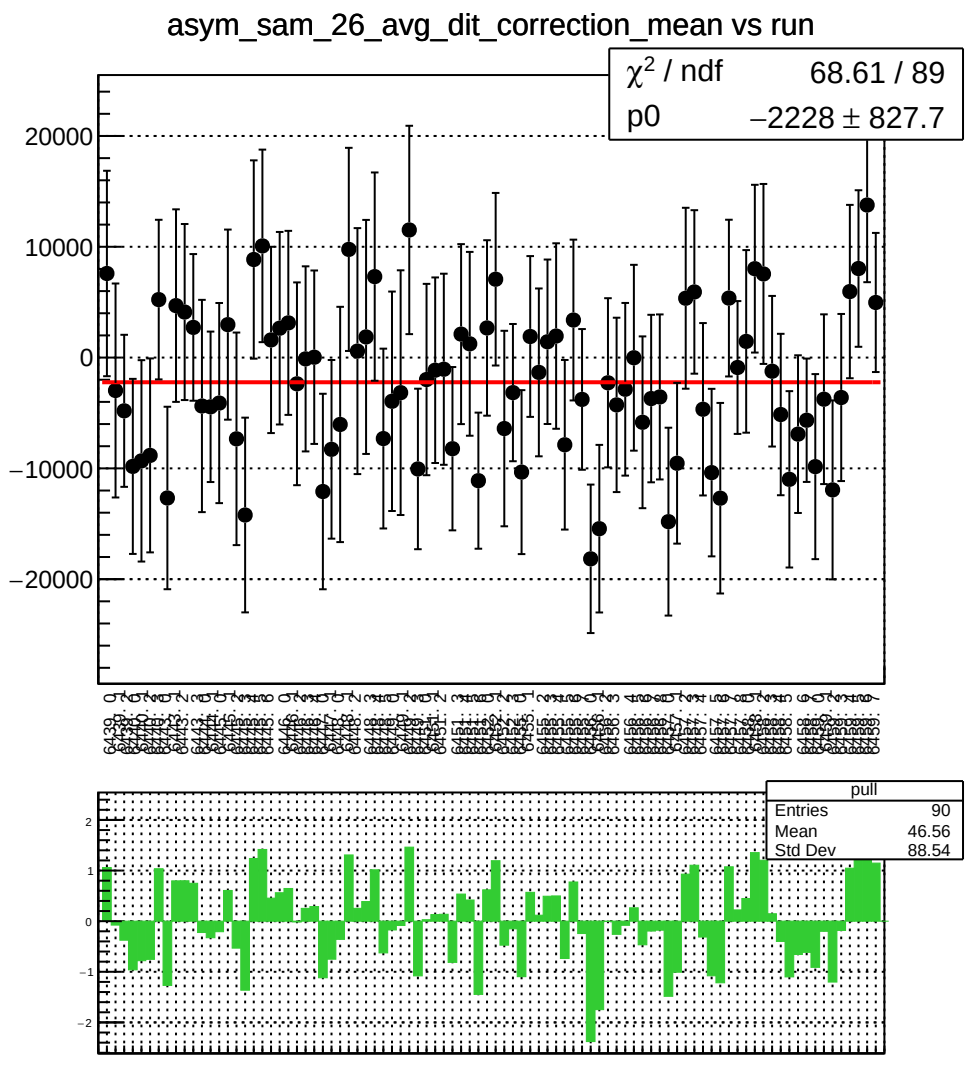

pull1D
Entries 90
Mean 0.009089
Std Dev 0.8831
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

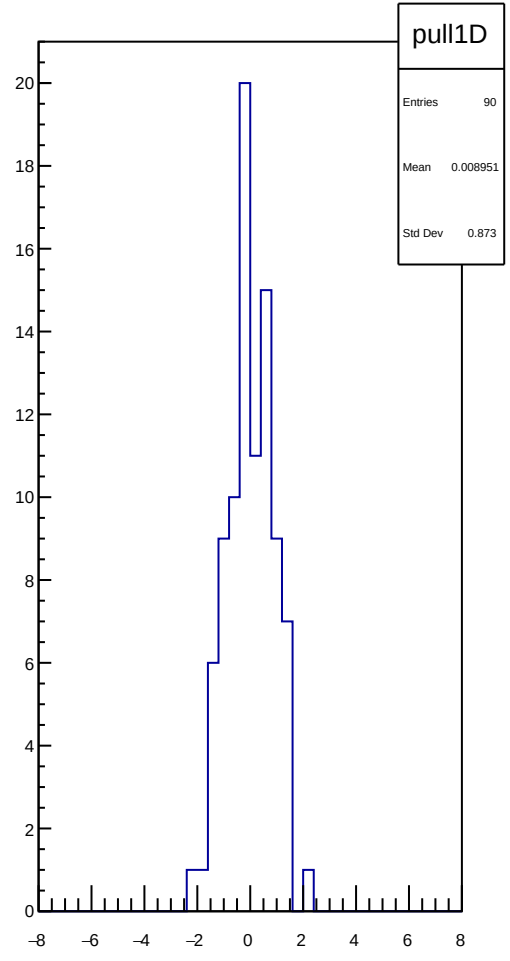

asym_sam_26_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.025e+04 / 89
p0 746.9 ± 0.5643
1100
1000
900
800
700
600

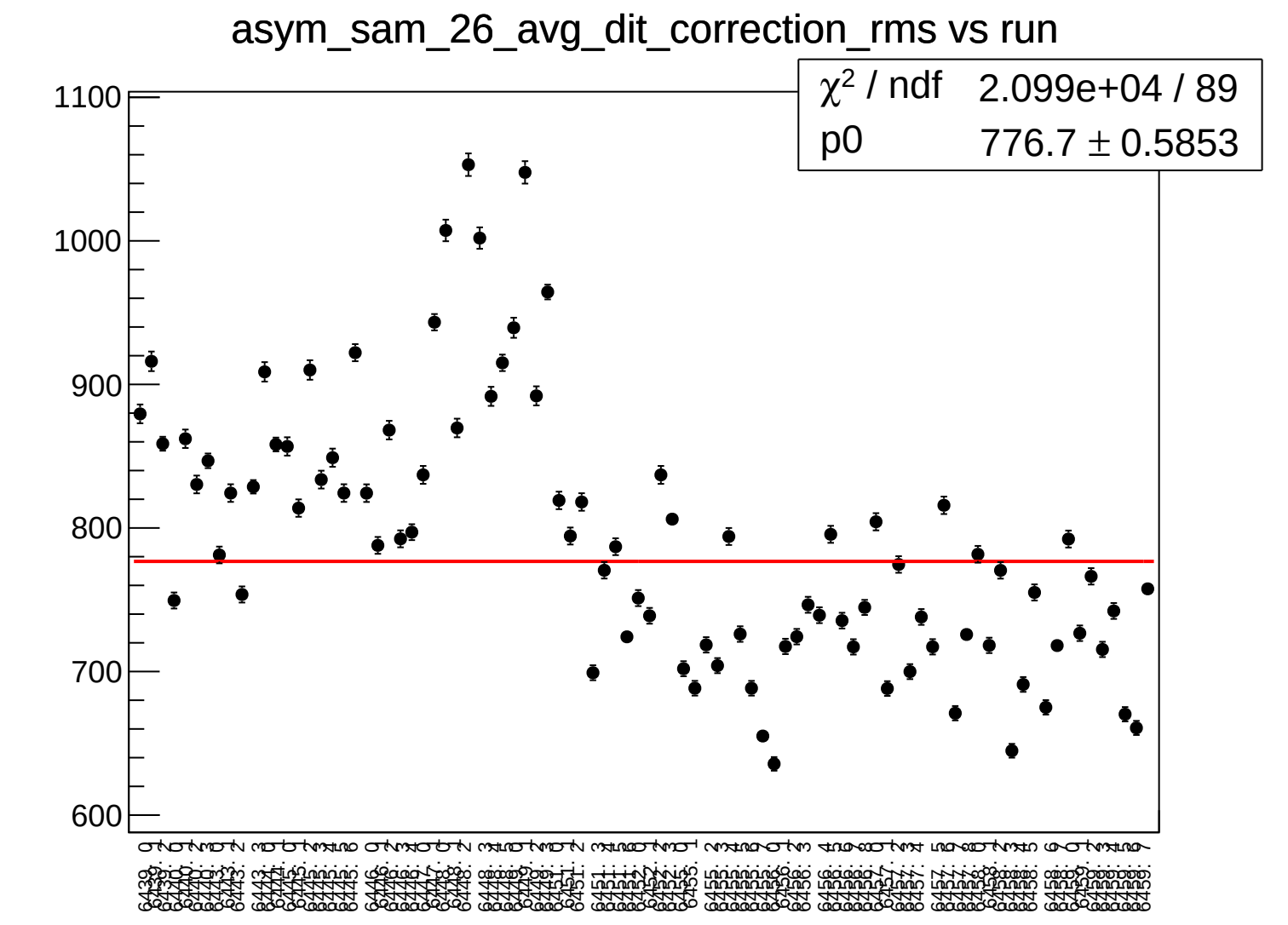

dit_asym_sam_26_avg_mean vs run
χ² / ndf 110.4 / 89
p0 5.809 ± 120.5
4000
2000
0
−2000
−4000
pull
Entries 90
Mean −902.9
Std Dev 0
3
2
1
0
−1
−2
−3

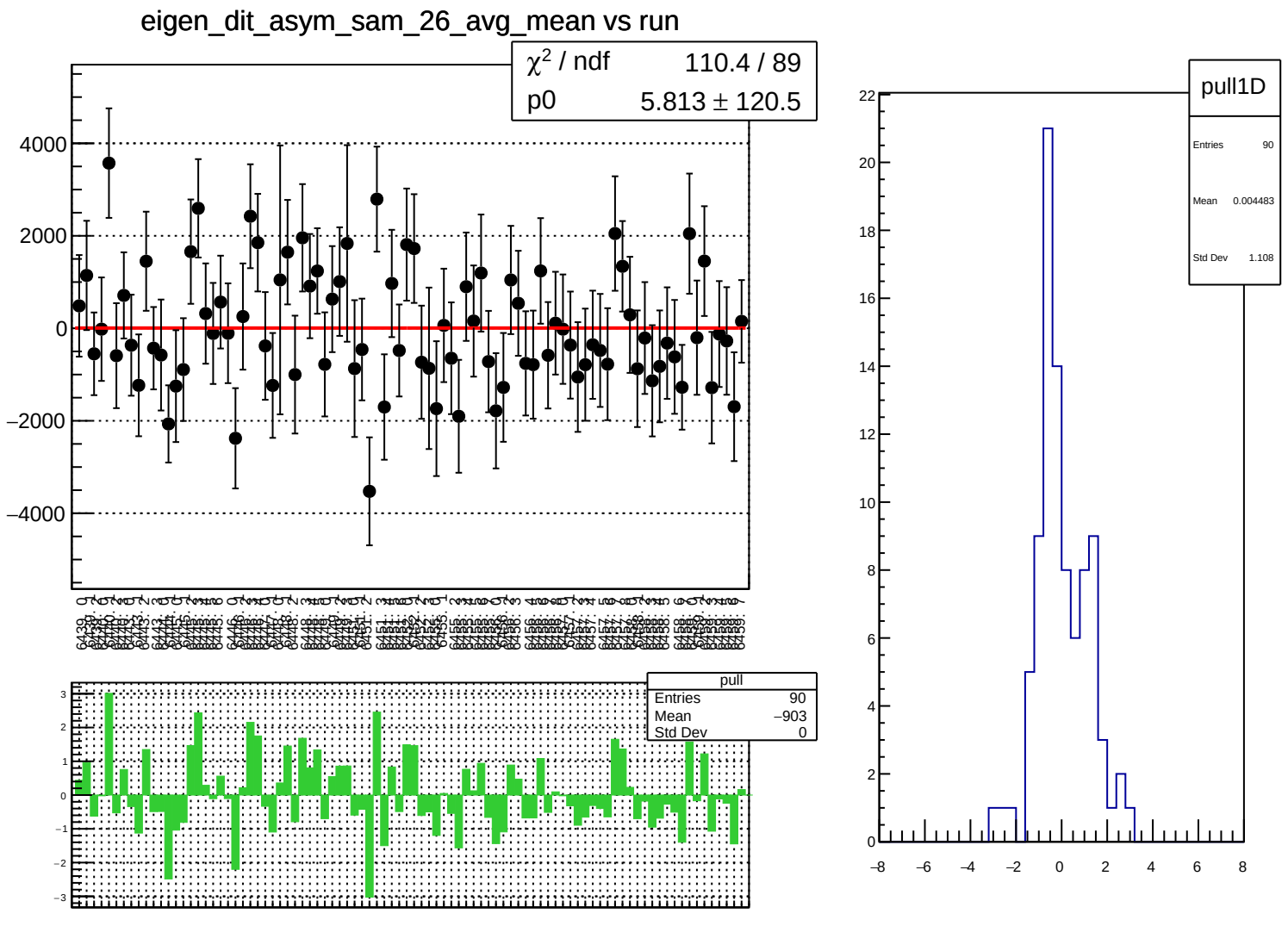

pull1D
Entries 90
Mean 0.004483
Std Dev 1.108
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

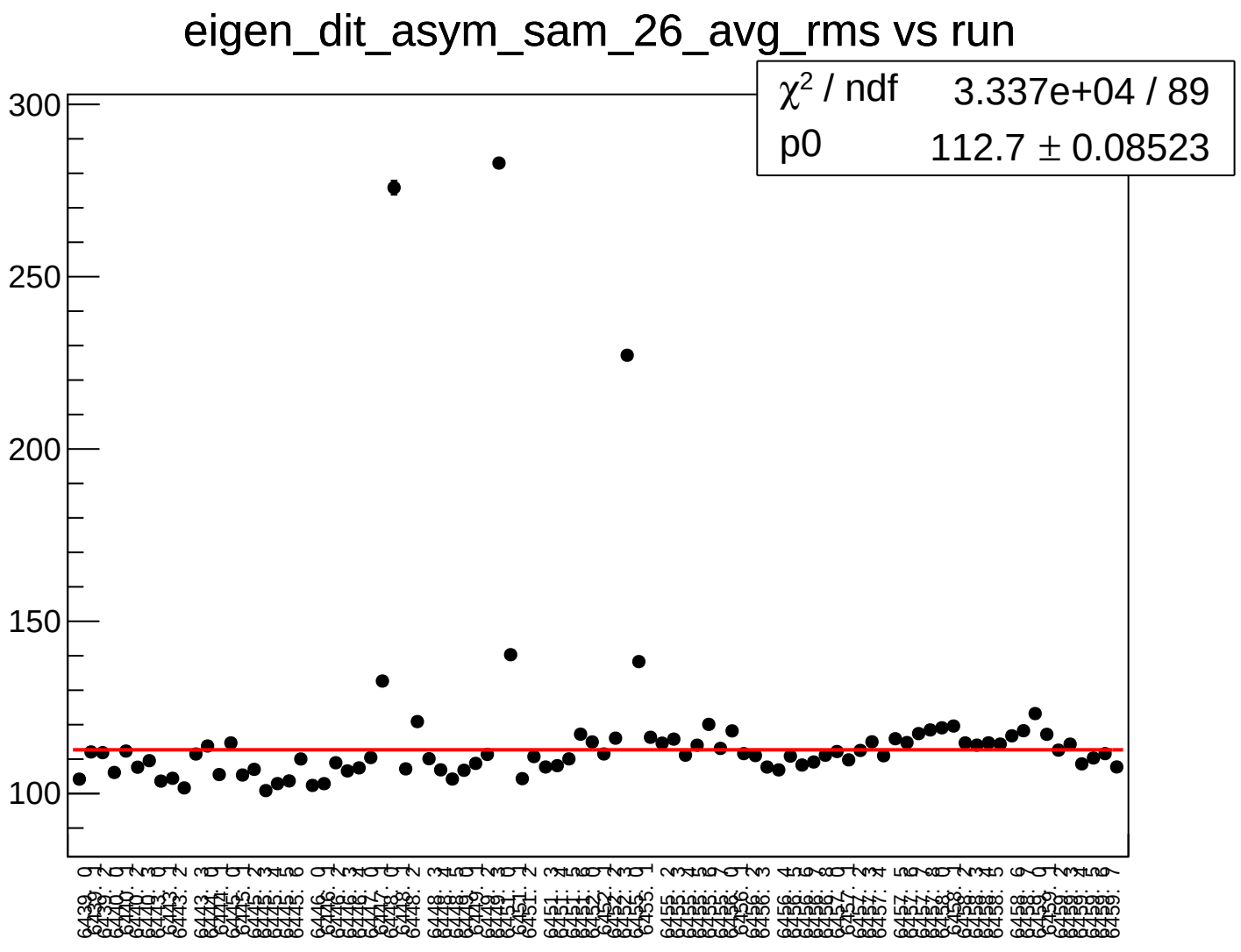

dit_asym_sam_26_avg_rms vs run
χ² / ndf 3.337e+04 / 89
p0 112.7 ± 0.08523
300
250
200
150
100

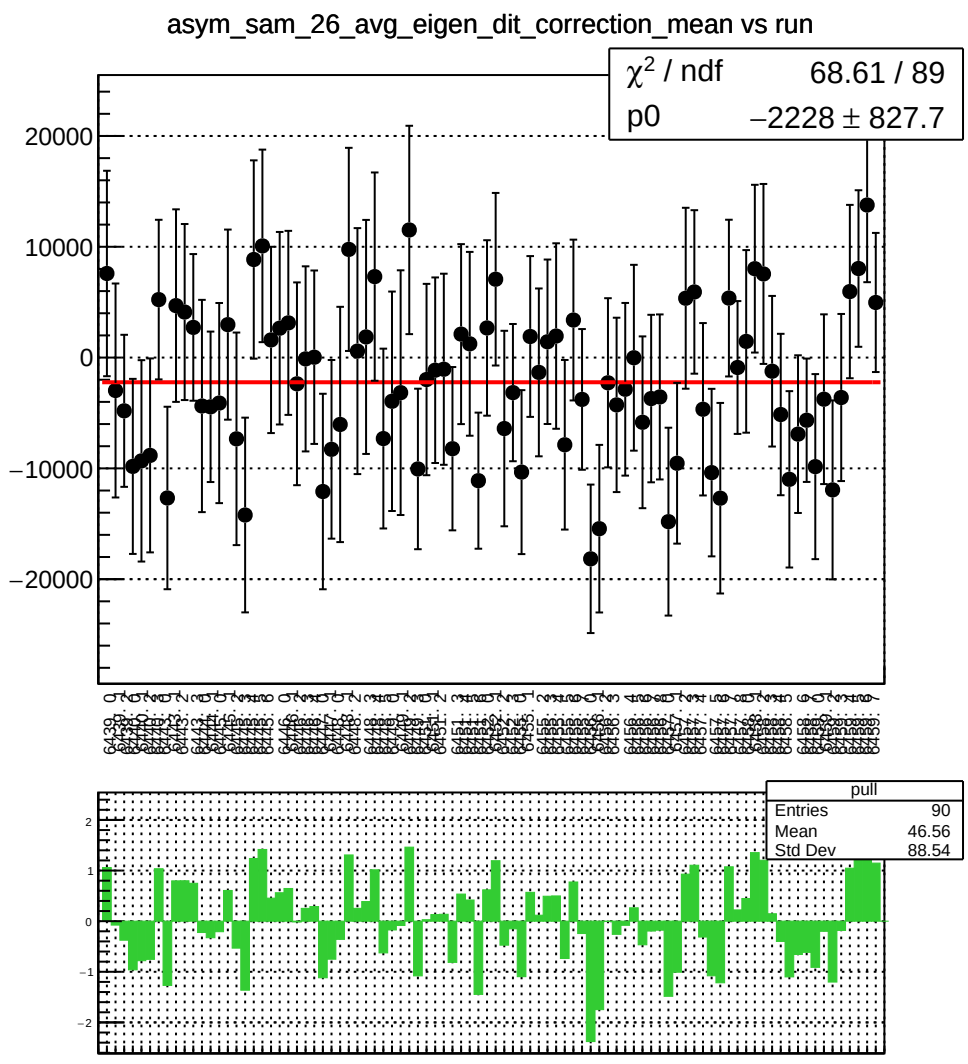

asym_sam_26_avg_dit_correction_mean vs run
χ² / ndf 68.61 / 89
p0 −2228 ± 827.7
20000
10000
0
−10000
−20000
pull
Entries 90
Mean 46.56
Std Dev 88.54
2
1
0
−1
−2

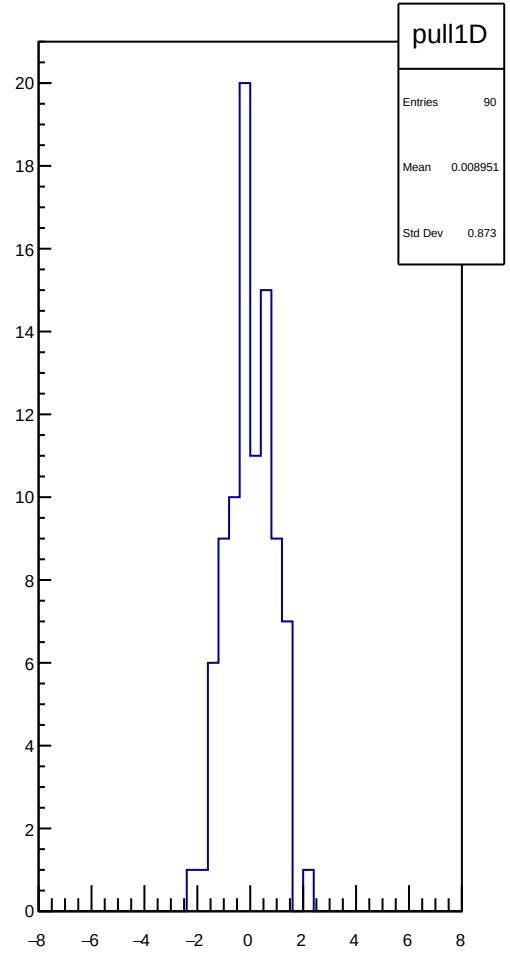

pull1D
Entries 90
Mean 0.008951
Std Dev 0.873
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

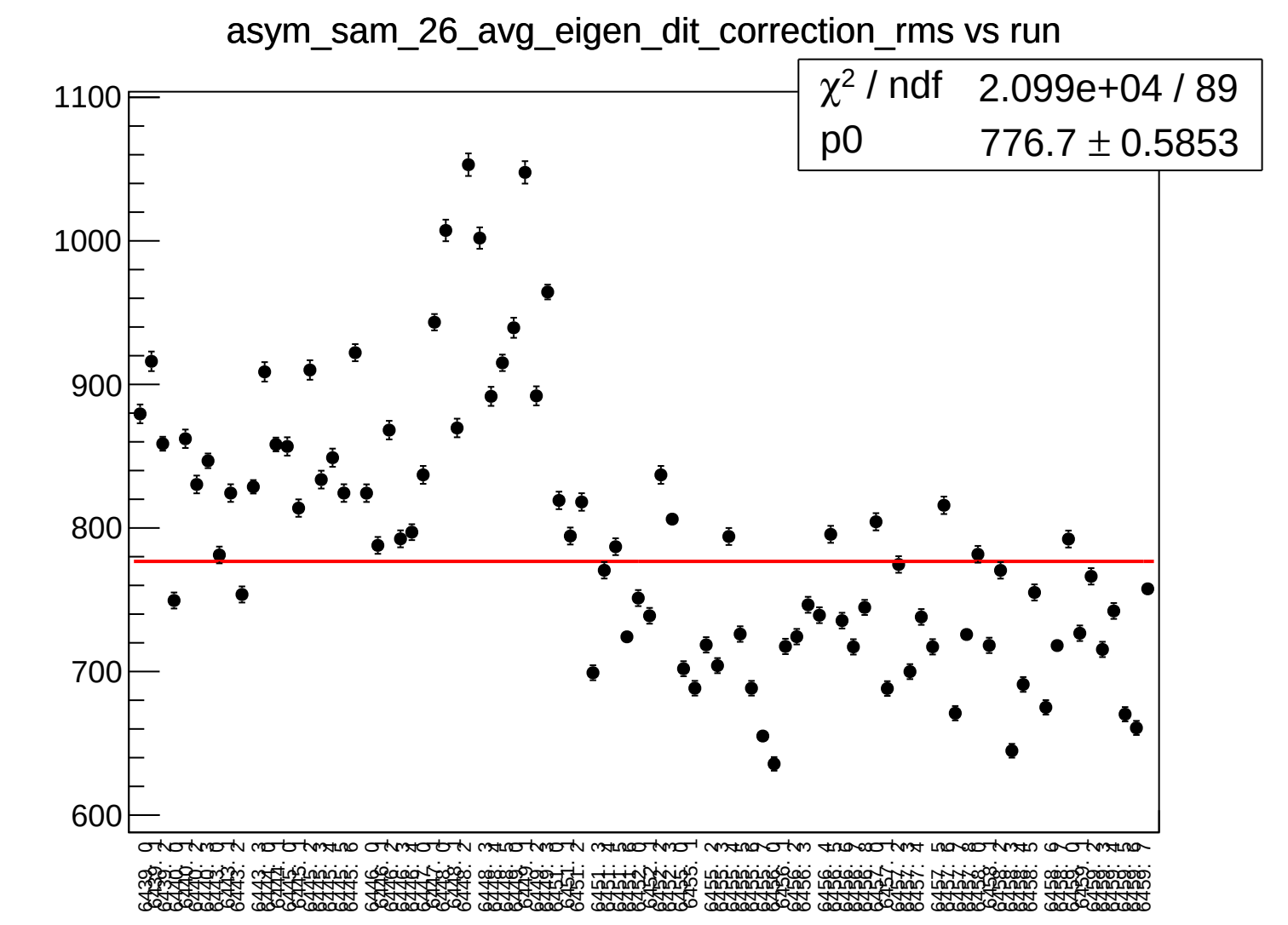

asym_sam_26_avg_dit_correction_rms vs run
χ² / ndf 2.099e+04 / 89
p0 776.7 ± 0.5853
1100
1000
900
800
700
600

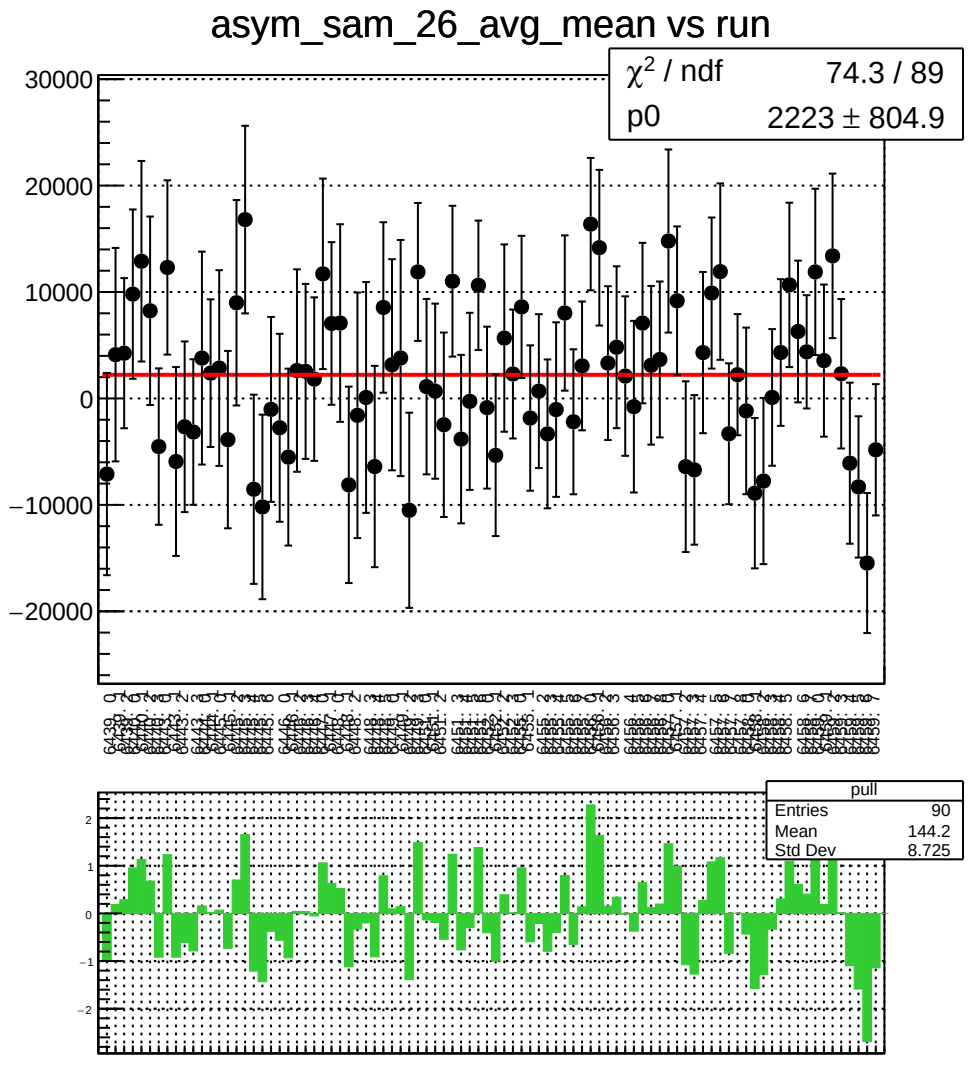

eigen_dit_asym_sam_26_avg_mean vs run
χ² / ndf 110.4 / 89
p0 5.813 ± 120.5
4000
2000
0
−2000
−4000
pull
Entries 90
Mean −903
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 90
Mean 0.004483
Std Dev 1.108
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

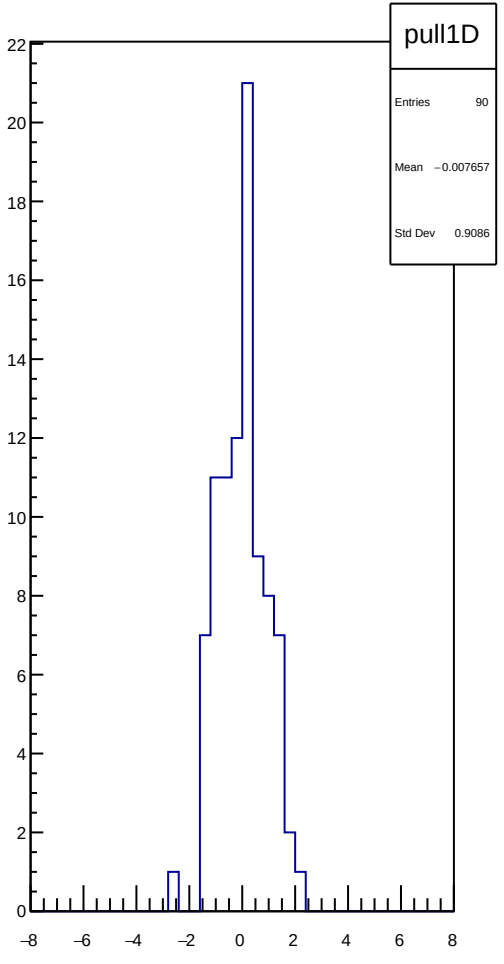

eigen_dit_asym_sam_26_avg_rms vs run
χ² / ndf 3.337e+04 / 89
p0 112.7 ± 0.08523
300
250
200
150
100

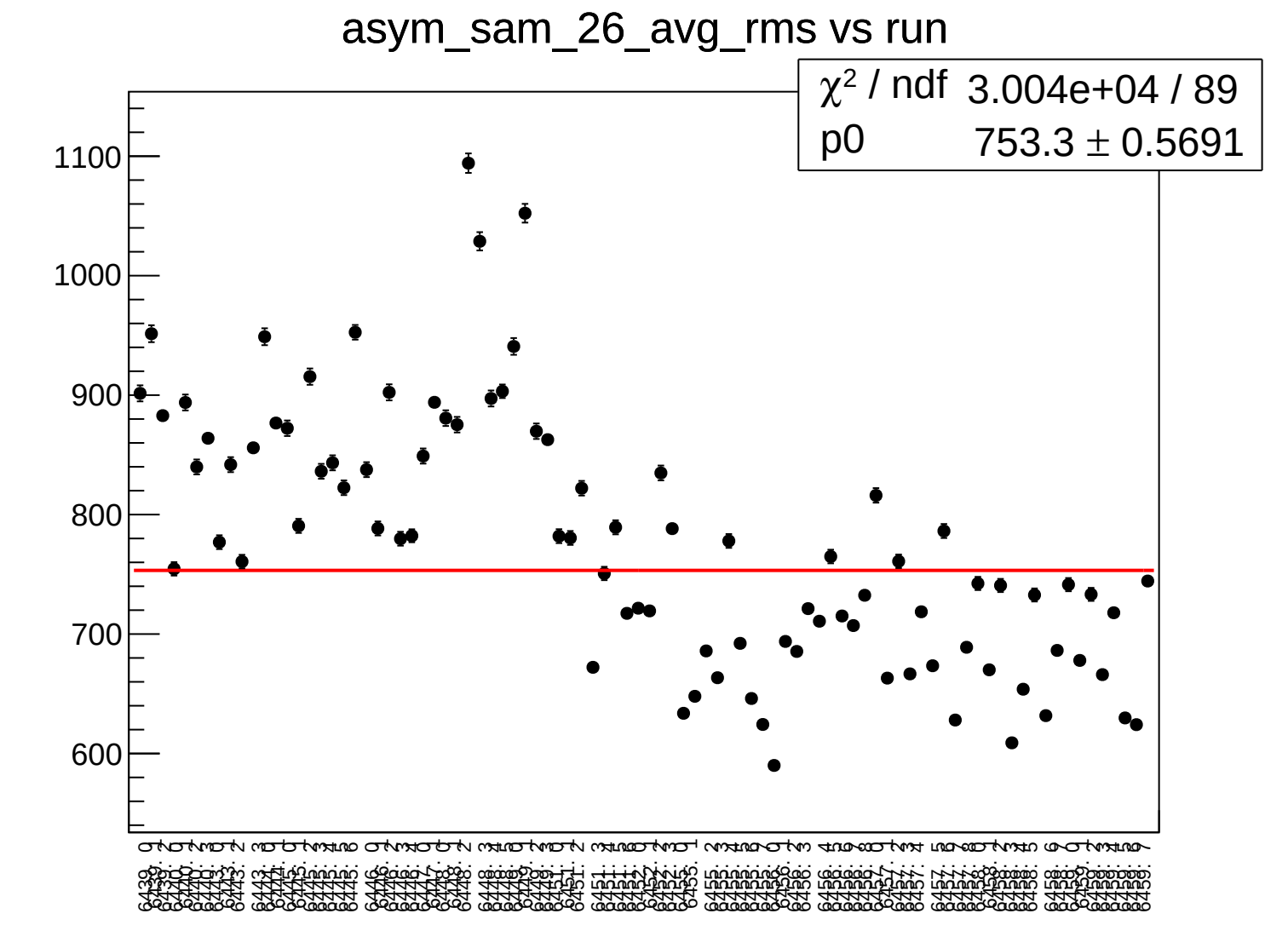

asym_sam_26_avg_eigen_dit_correction_mean vs run
χ² / ndf 68.61 / 89
p0 −2228 ± 827.7
20000
10000
0
−10000
−20000
pull
Entries 90
Mean 46.56
Std Dev 88.54
2
1
0
−1
−2

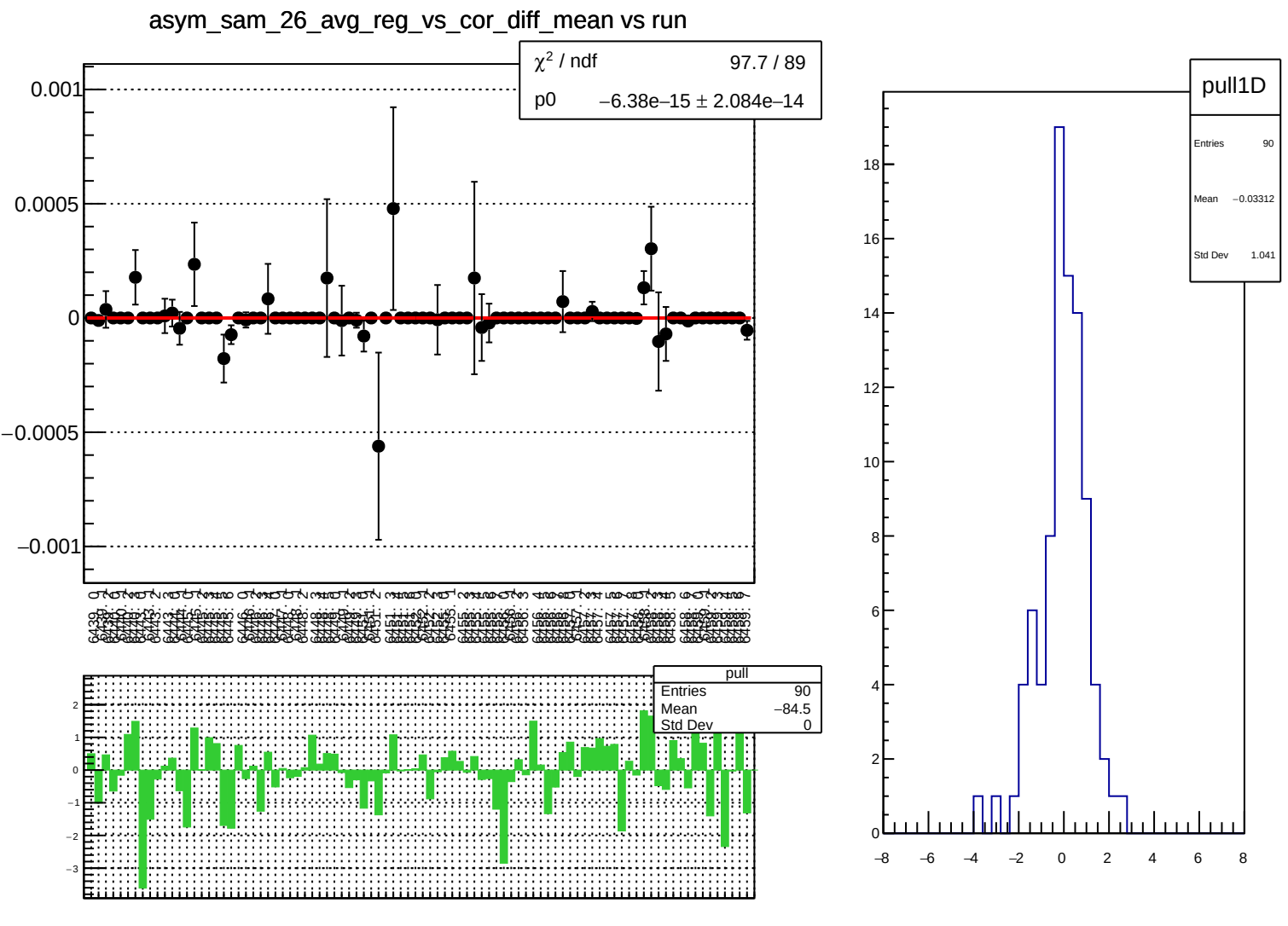

pull1D
Entries 90
Mean 0.008951
Std Dev 0.873
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

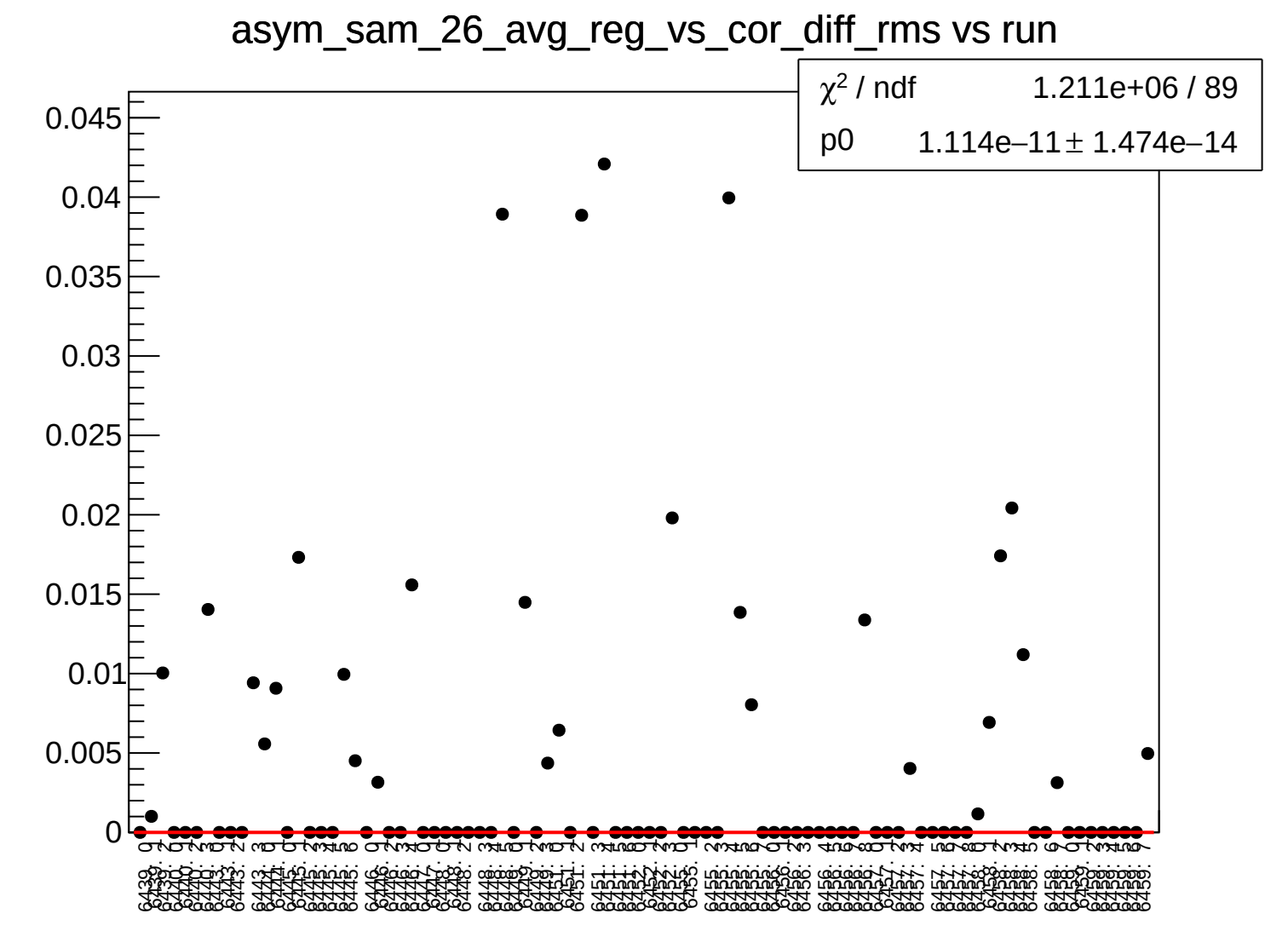

asym_sam_26_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.099e+04 / 89
p0 776.7 ± 0.5853
1100
1000
900
800
700
600

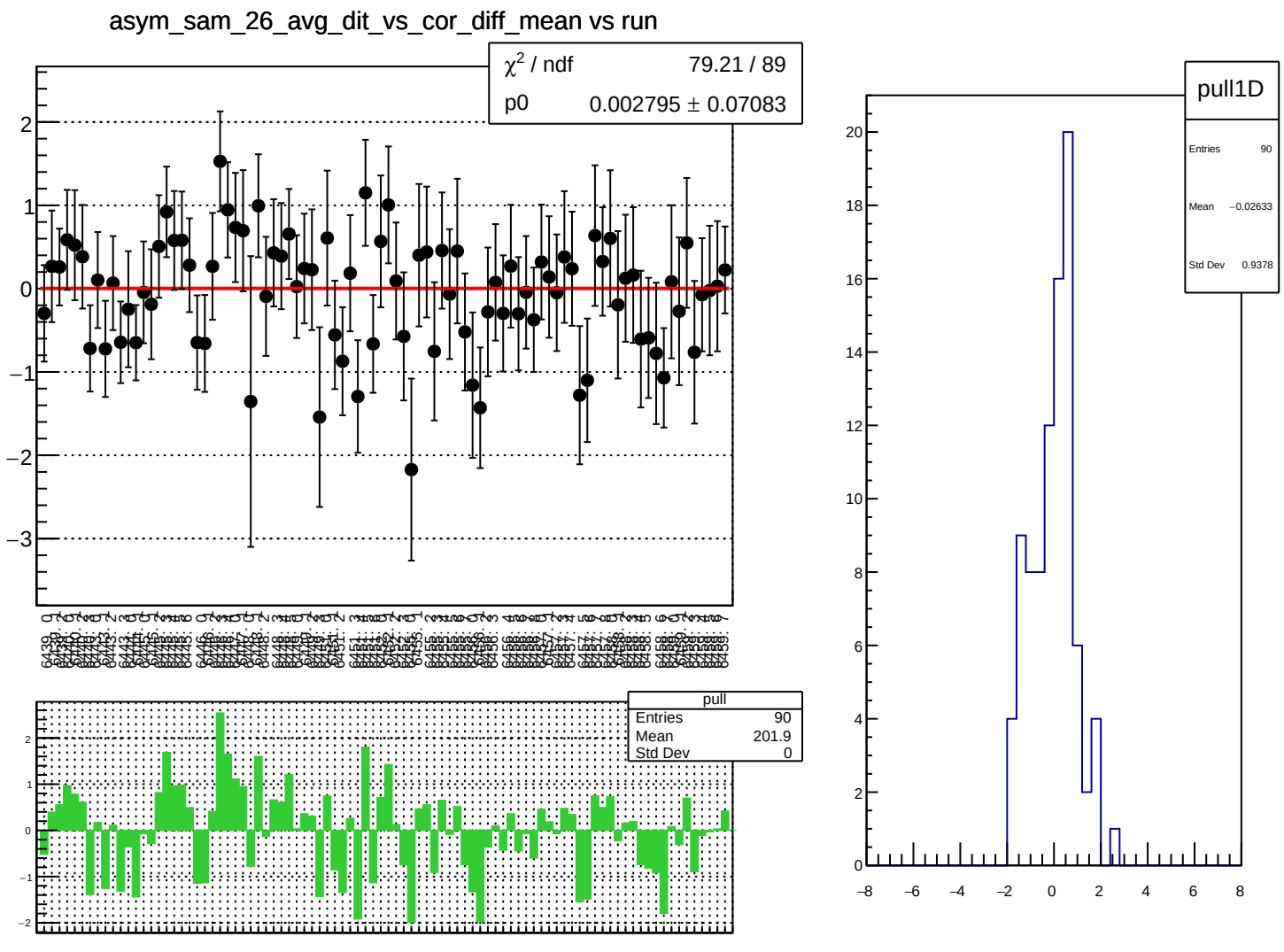

asym_sam_26_avg_mean vs run
χ² / ndf 74.3 / 89
p0 2223 ± 804.9
30000
20000
10000
0
−10000
−20000
pull
Entries 90
Mean 144.2
Std Dev 8.725
2
1
0
−1
−2

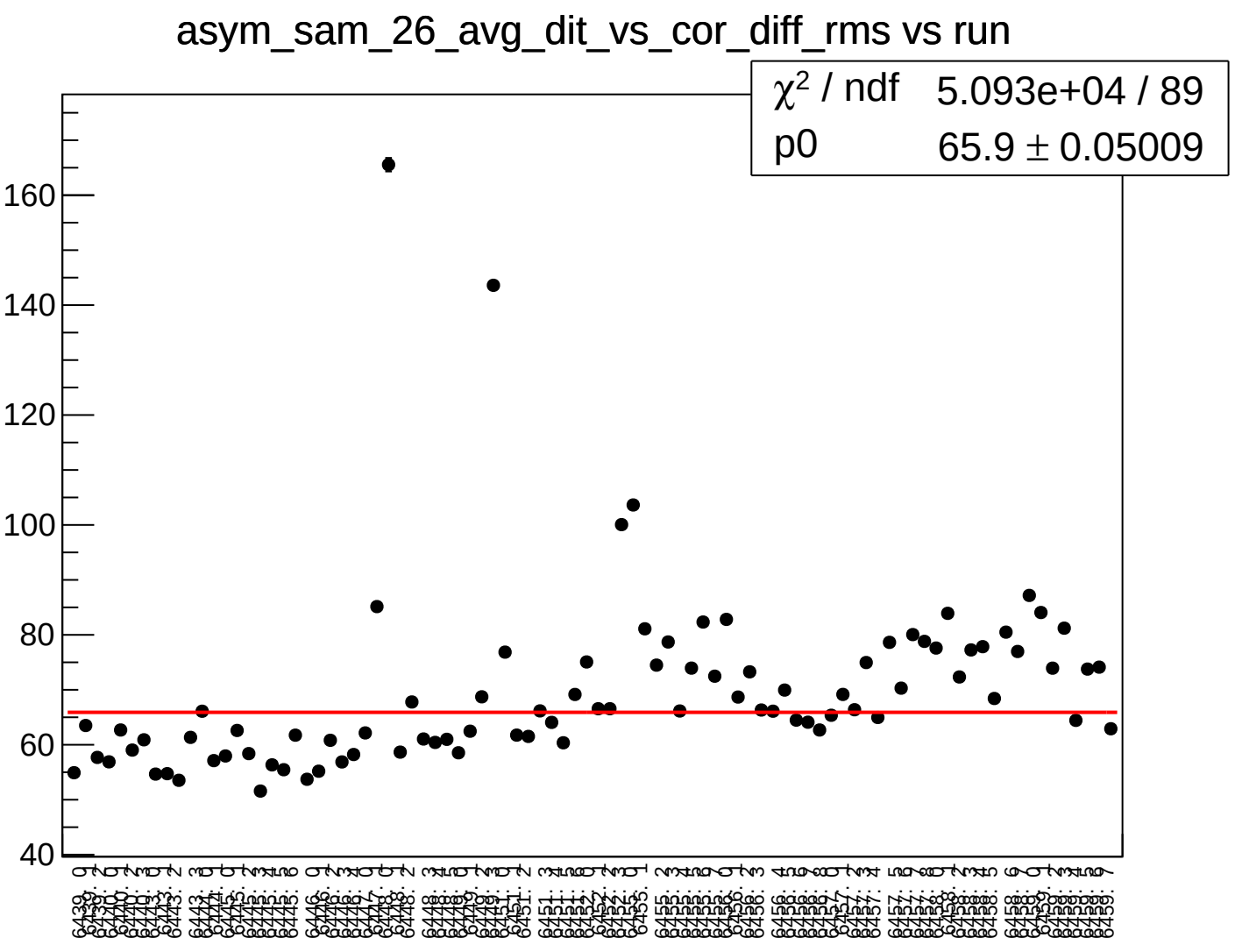

pull1D
Entries 90
Mean −0.007657
Std Dev 0.9086
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

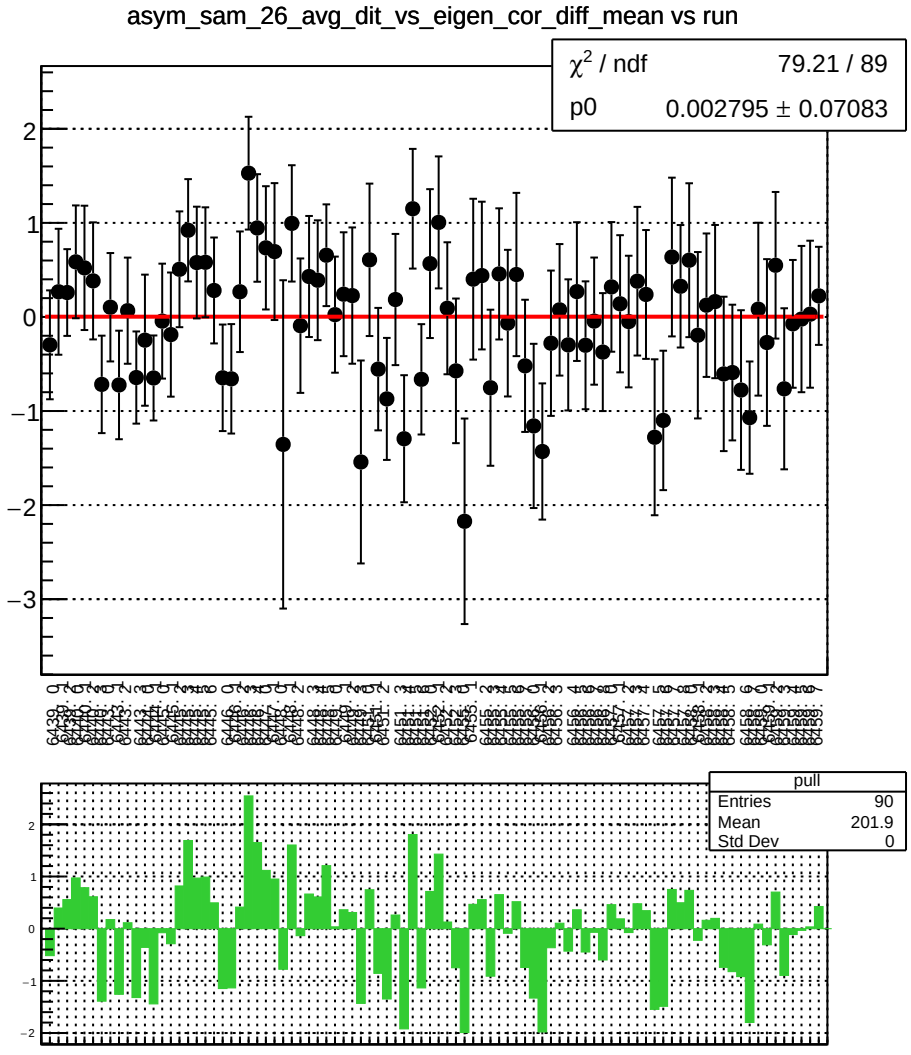

asym_sam_26_avg_rms vs run
χ² / ndf 3.004e+04 / 89
p0 753.3 ± 0.5691
1100
1000
900
800
700
600

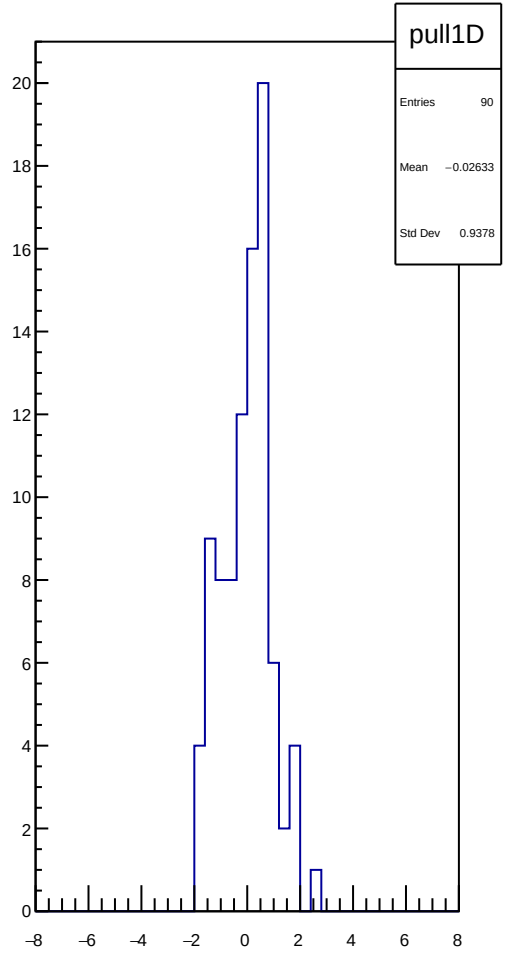

asym_sam_26_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 97.7 / 89
p0 −6.38e−15 ± 2.084e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 90
Mean −84.5
Std Dev 0
pull1D
Entries 90
Mean −0.03312
Std Dev 1.041

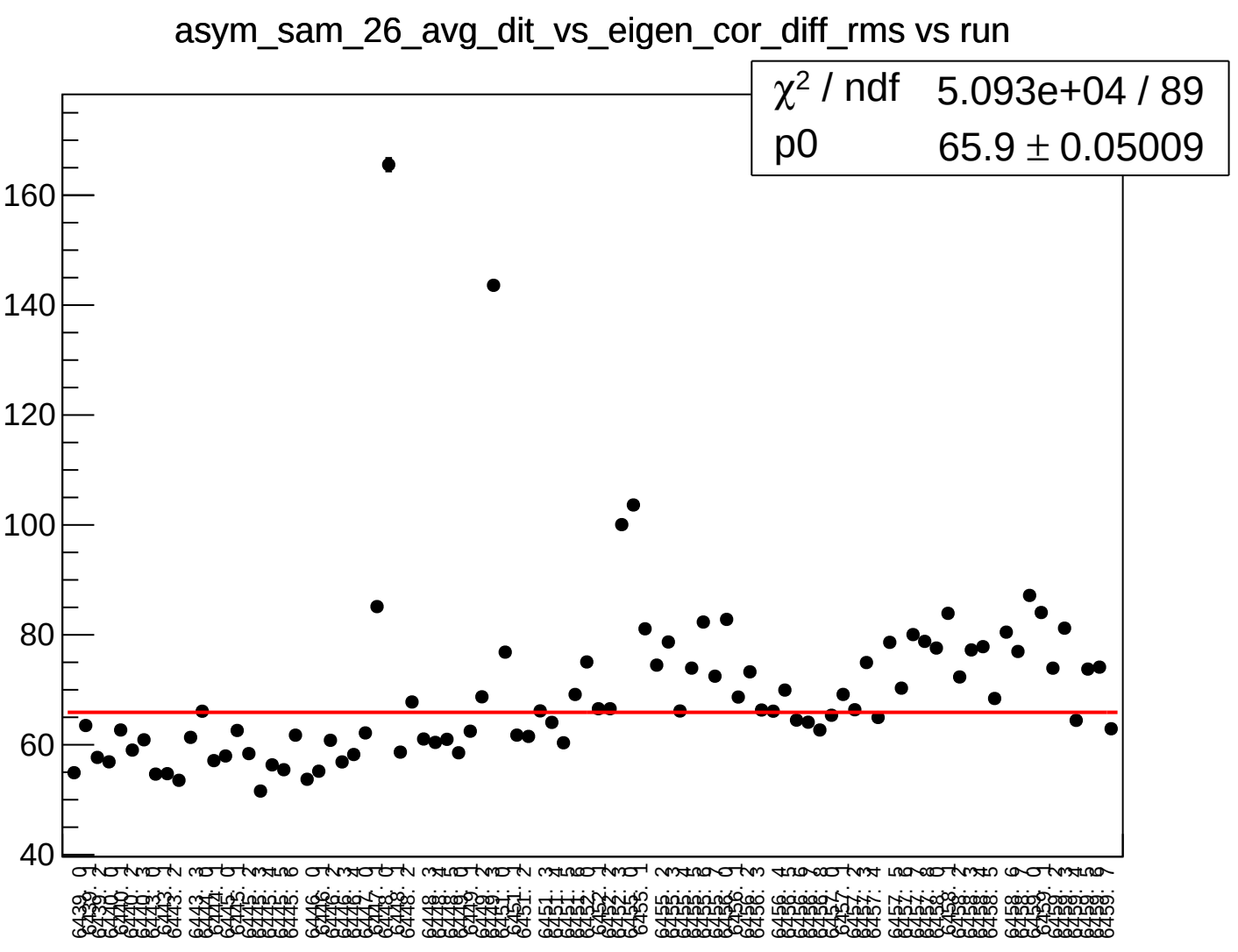

asym_sam_26_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.211e+06 / 89
p0 1.114e−11 ± 1.474e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

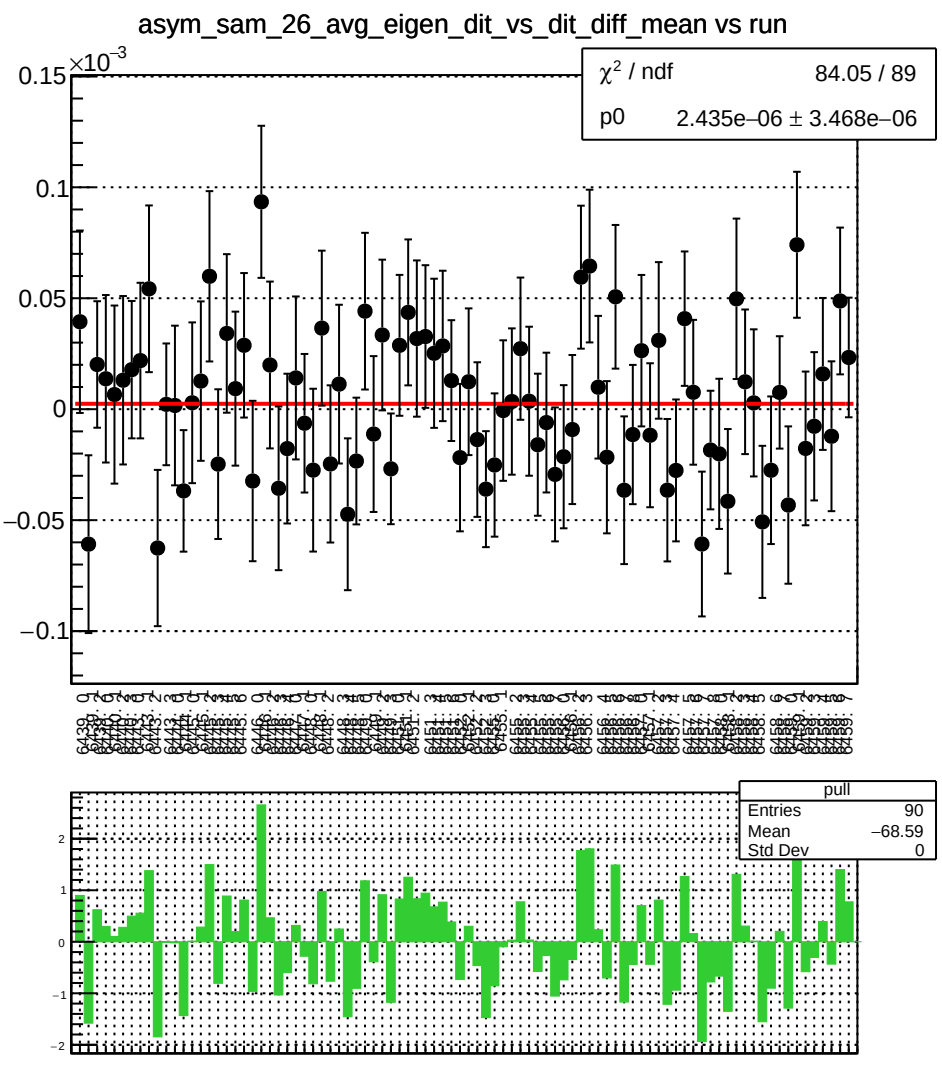

asym_sam_26_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 79.21 / 89
p0 0.002795 ± 0.07083
pull
Entries 90
Mean 201.9
Std Dev 0
pull1D
Entries 90
Mean −0.02633
Std Dev 0.9378

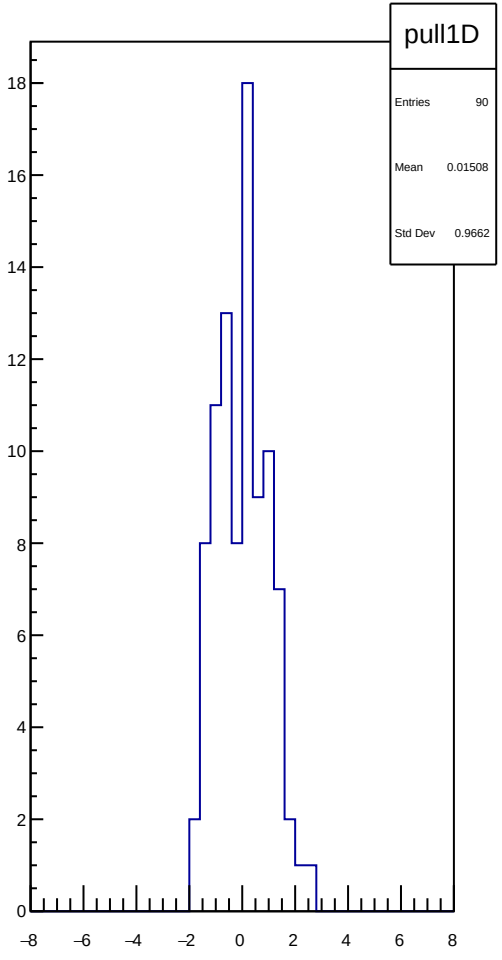

asym_sam_26_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.093e+04 / 89
p0 65.9 ± 0.05009
160
140
120
100
80
60
40

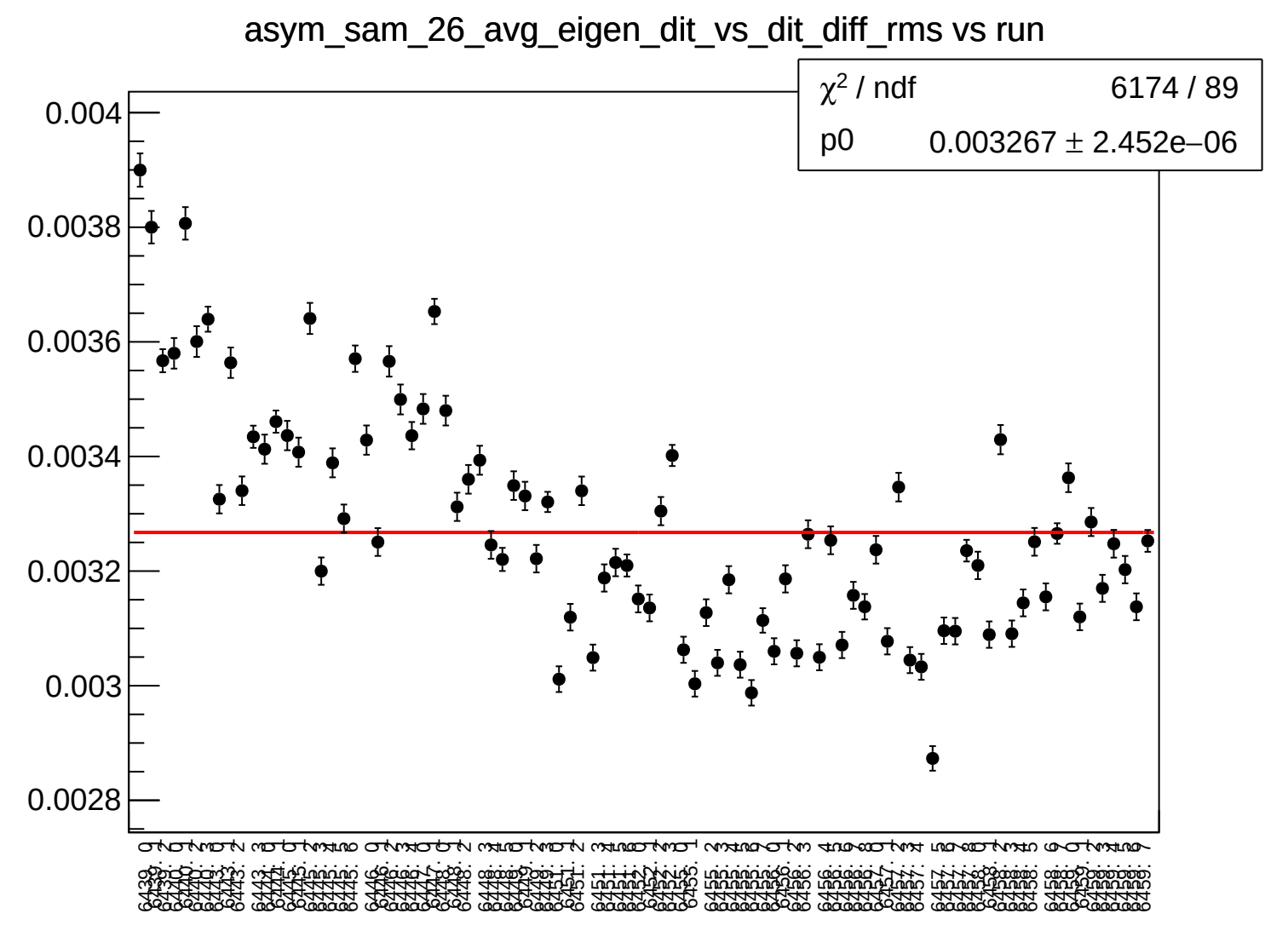

asym_sam_26_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.21 / 89
p0 0.002795 ± 0.07083
pull
Entries 90
Mean 201.9
Std Dev 0

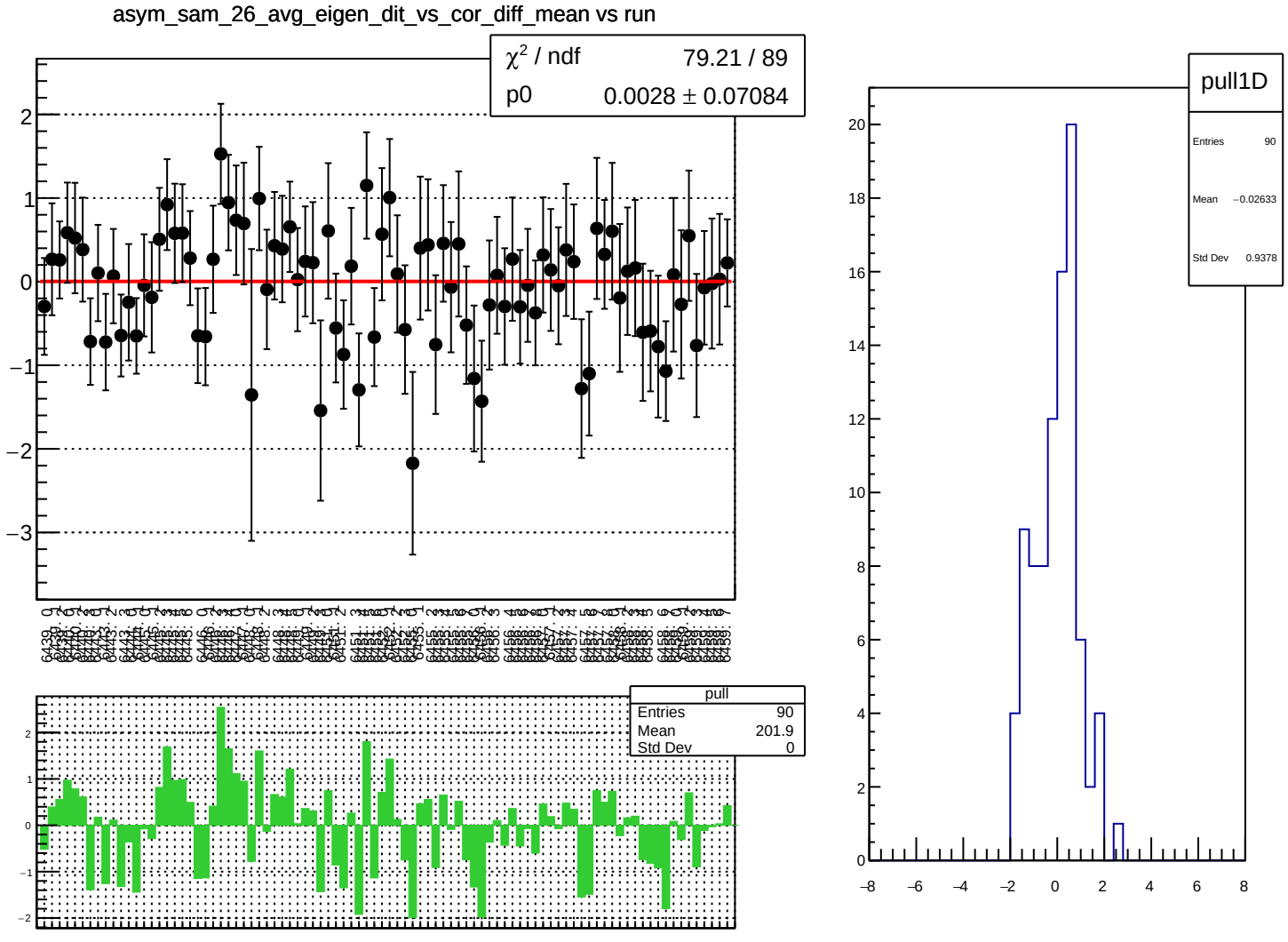

pull1D
Entries 90
Mean −0.02633
Std Dev 0.9378

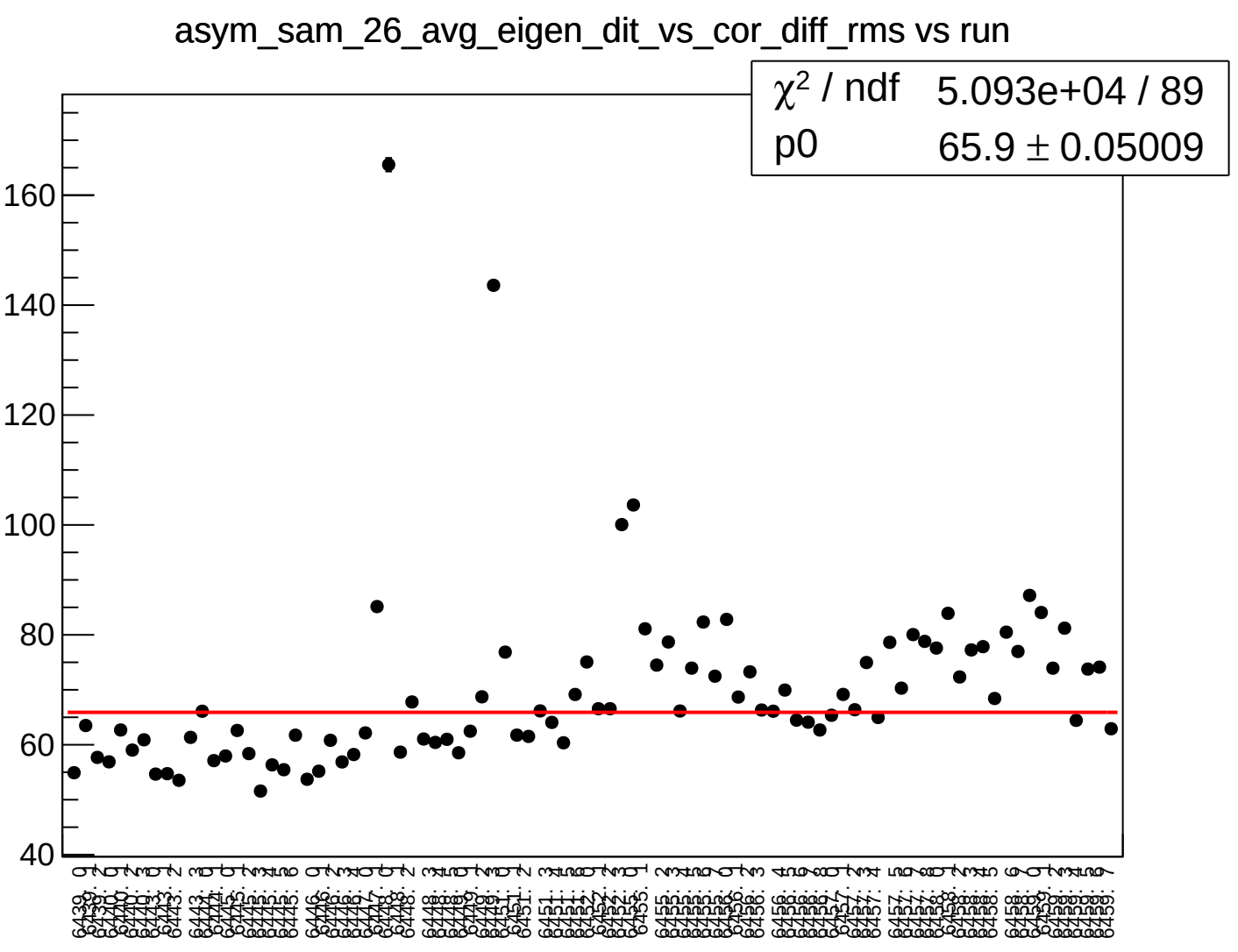

asym_sam_26_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.093e+04 / 89
p0 65.9 ± 0.05009
160
140
120
100
80
60
40

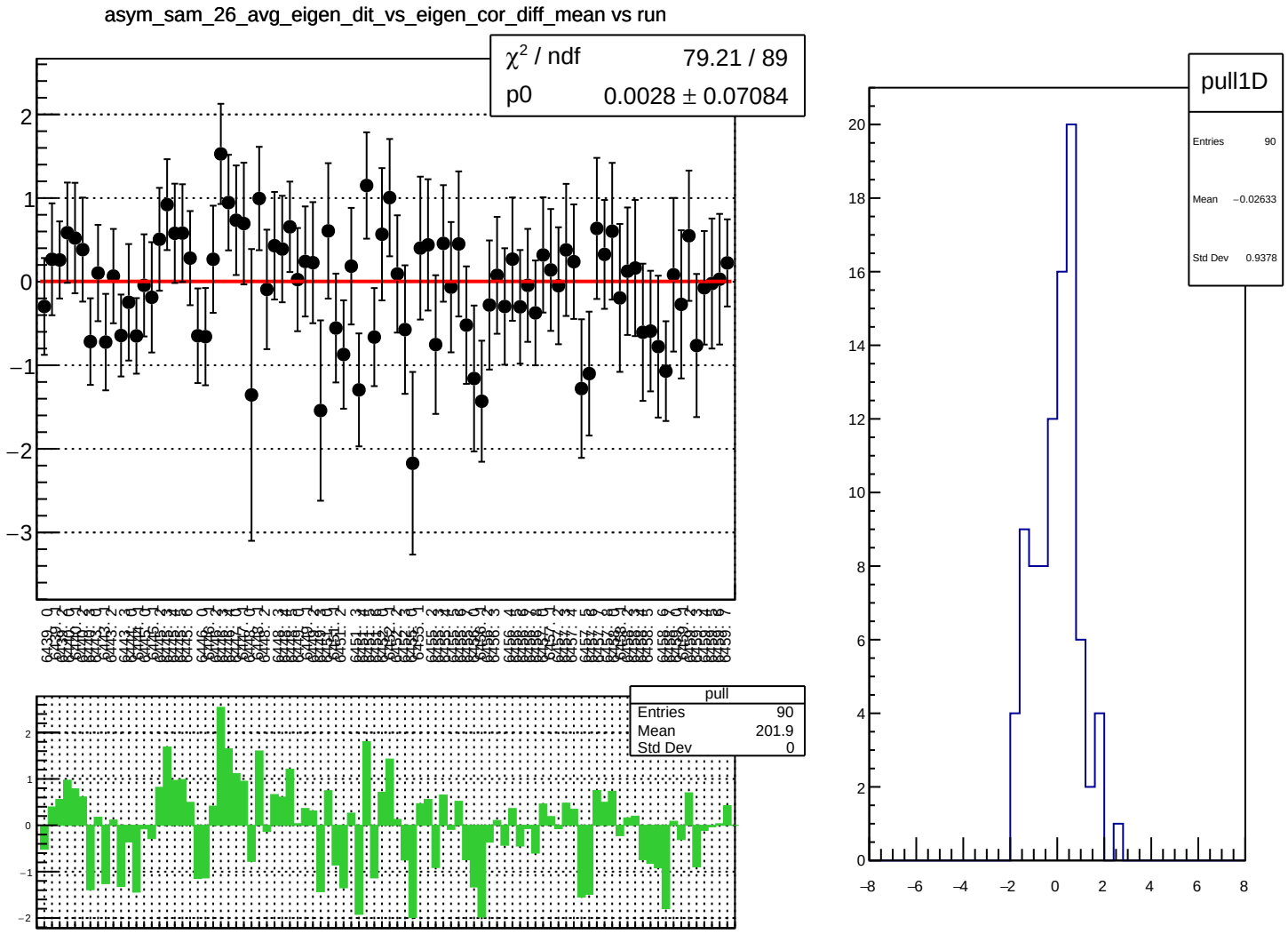

asym_sam_26_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 84.05 / 89
p0 2.435e−06 ± 3.468e−06
×10⁻³
pull
Entries 90
Mean −68.59
Std Dev 0

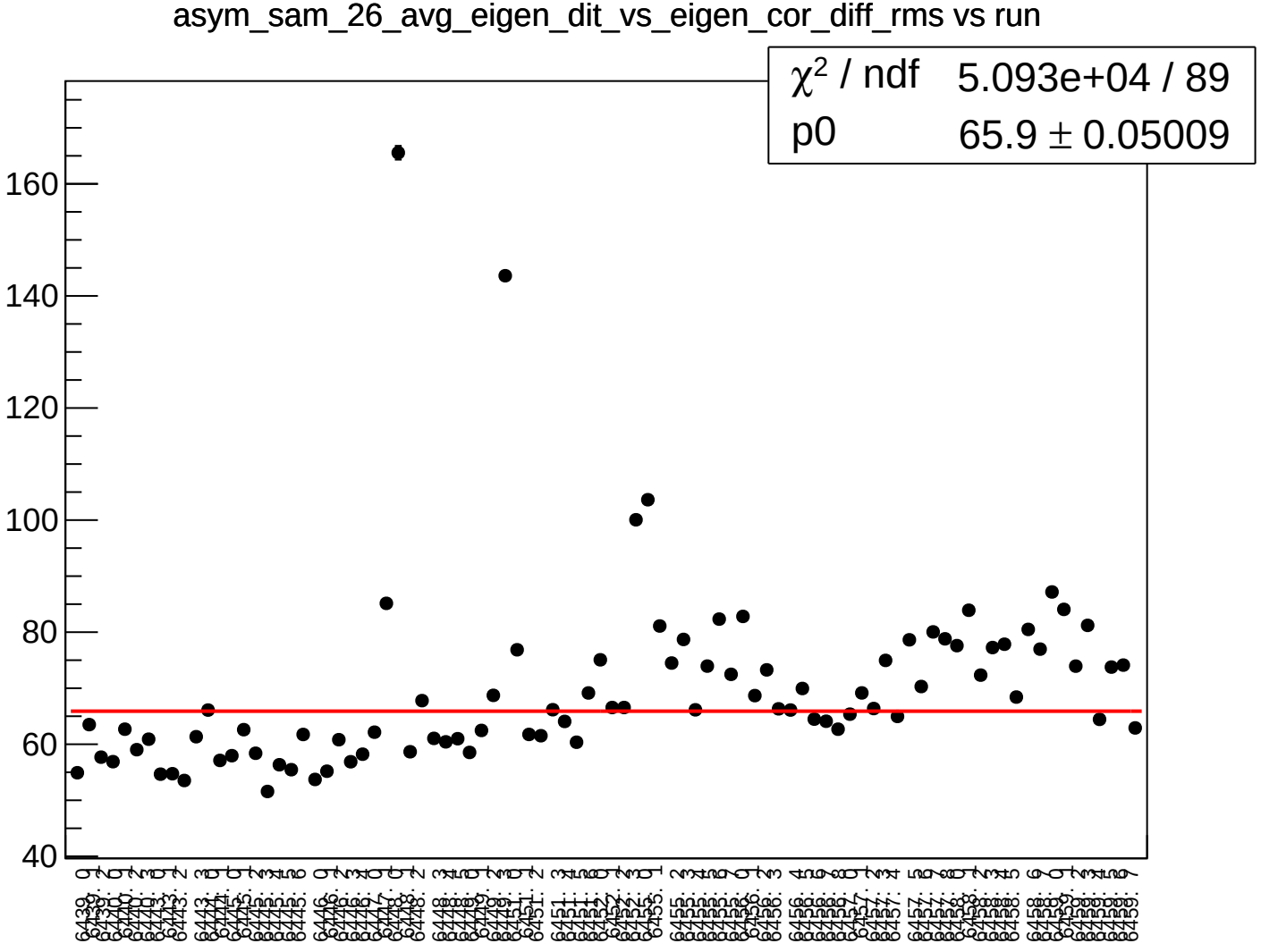

pull1D
Entries 90
Mean 0.01508
Std Dev 0.9662

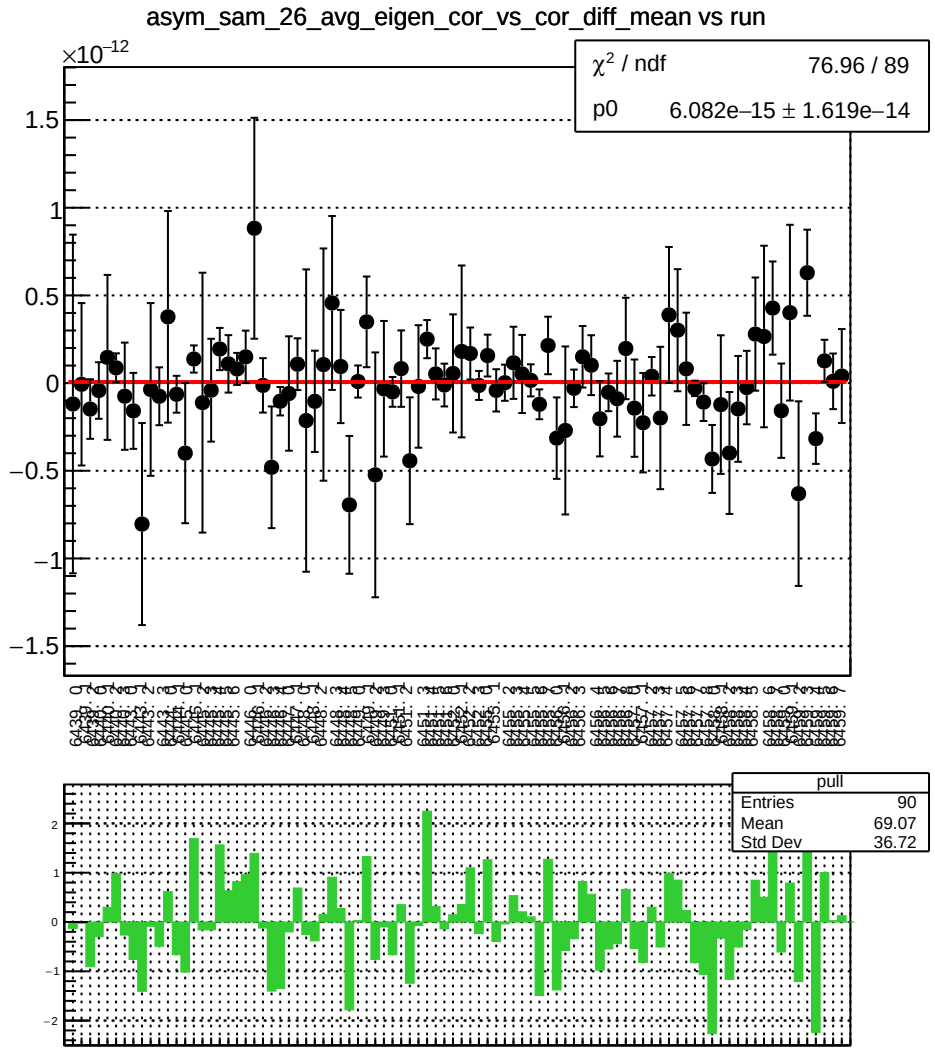

asym_sam_26_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6174 / 89
p0 0.003267 ± 2.452e−06
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028

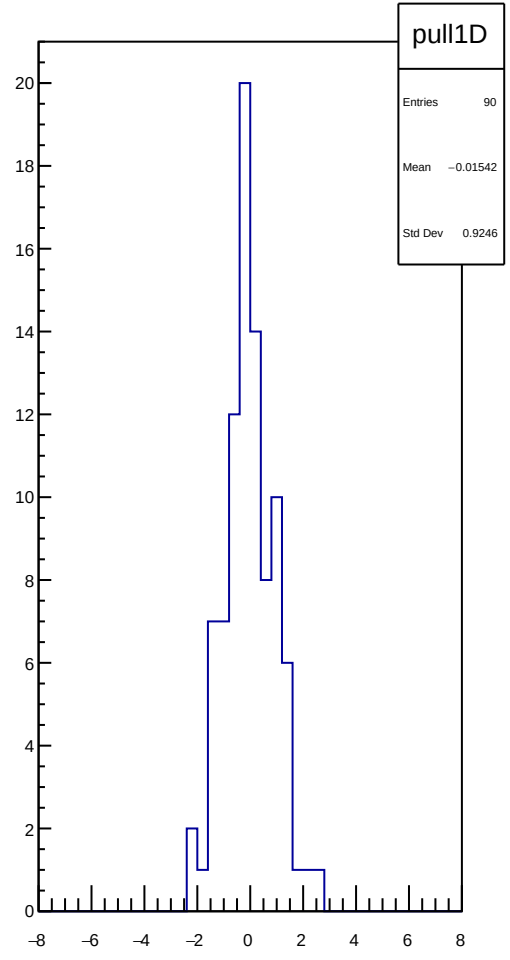

asym_sam_26_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.21 / 89
p0 0.0028 ± 0.07084
pull
Entries 90
Mean 201.9
Std Dev 0
pull1D
Entries 90
Mean −0.02633
Std Dev 0.9378

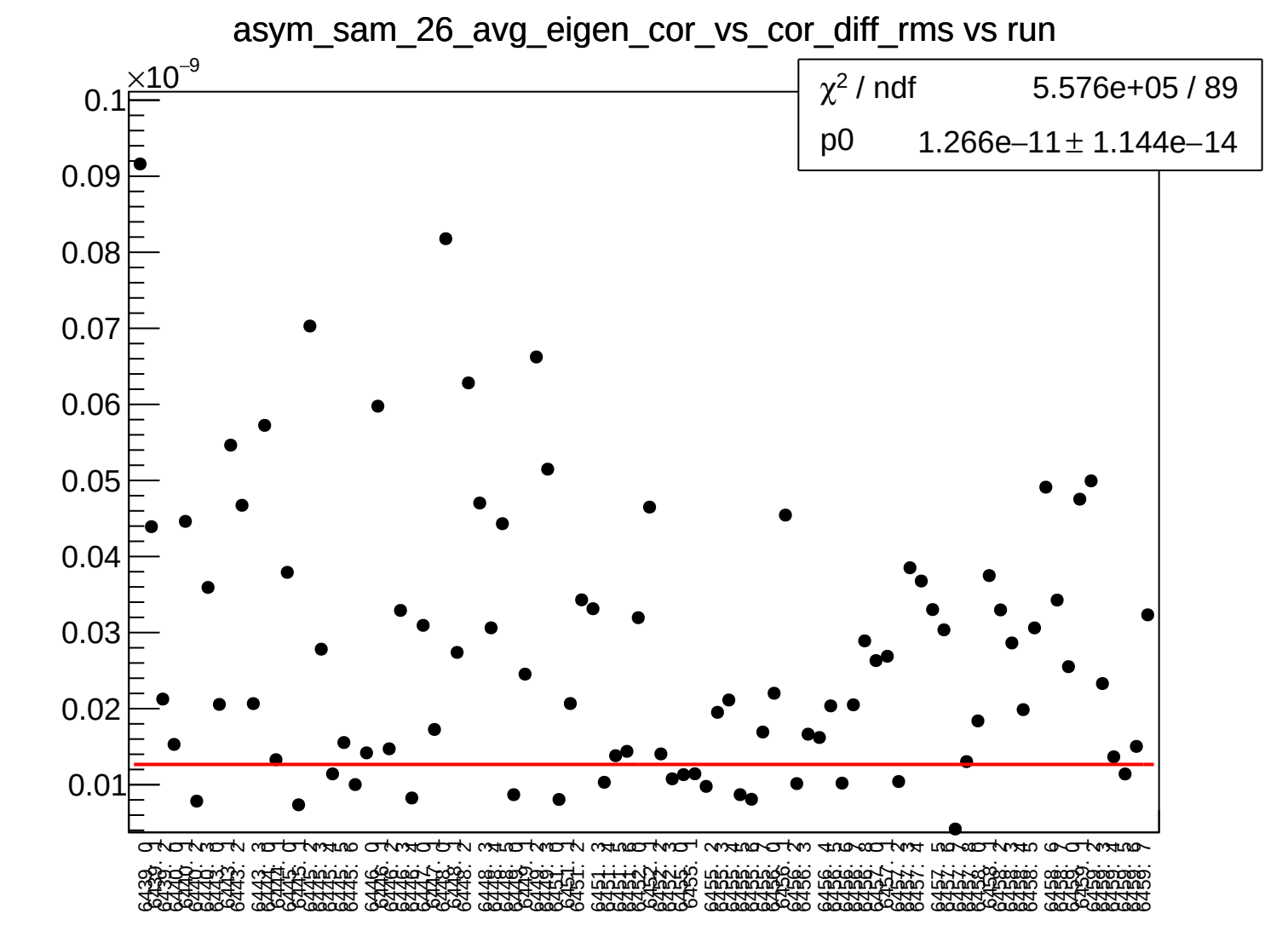

asym_sam_26_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.093e+04 / 89
p0 65.9 ± 0.05009
160
140
120
100
80
60
40

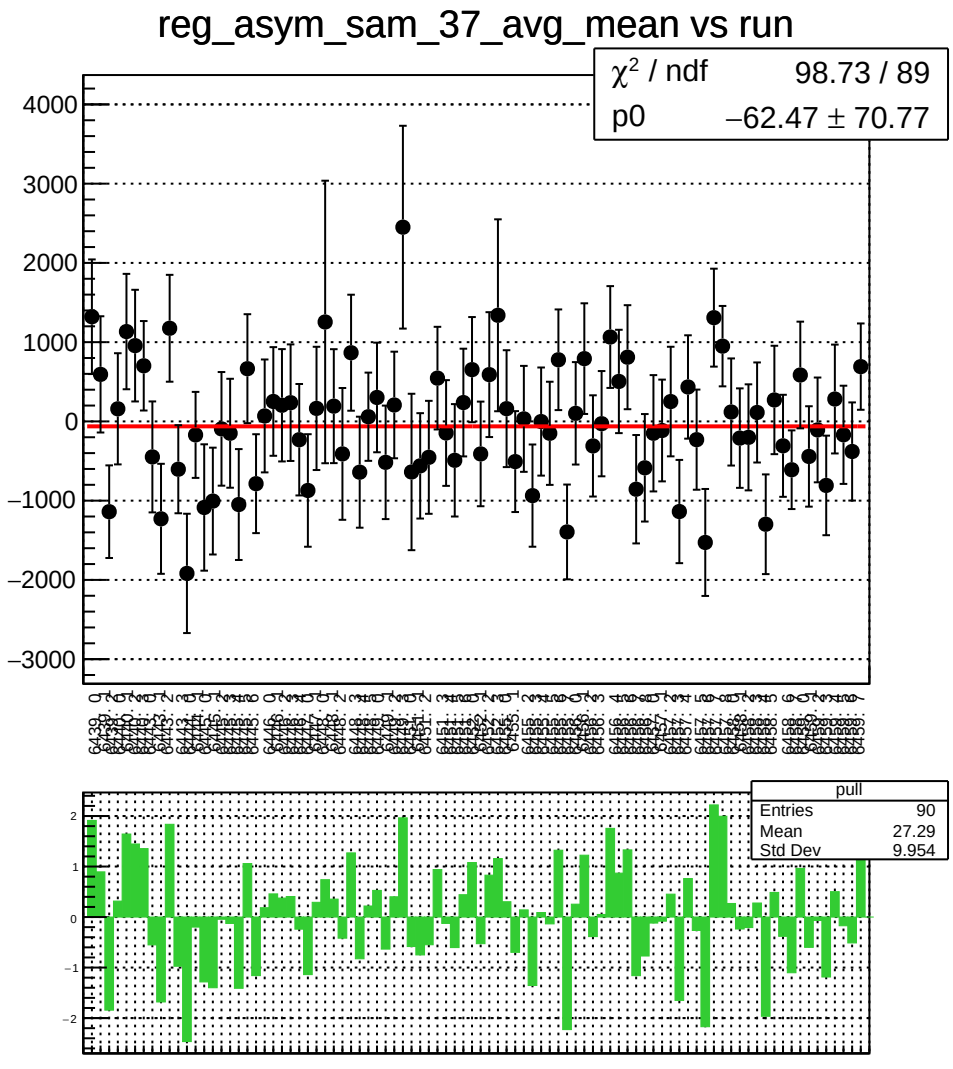

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.21 / 89
p0 0.0028 ± 0.07084
pull
Entries 90
Mean 201.9
Std Dev 0
pull1D
Entries 90
Mean −0.02633
Std Dev 0.9378

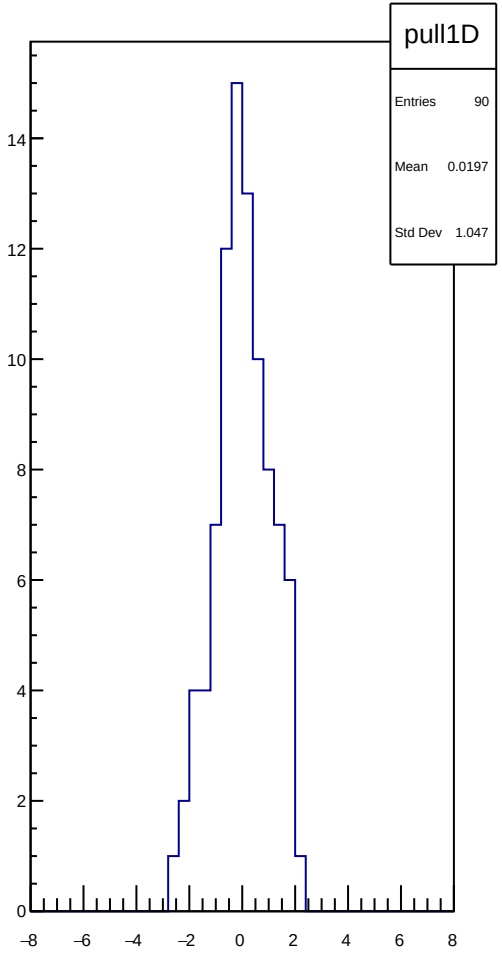

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.093e+04 / 89
p0 65.9 ± 0.05009
160
140
120
100
80
60
40

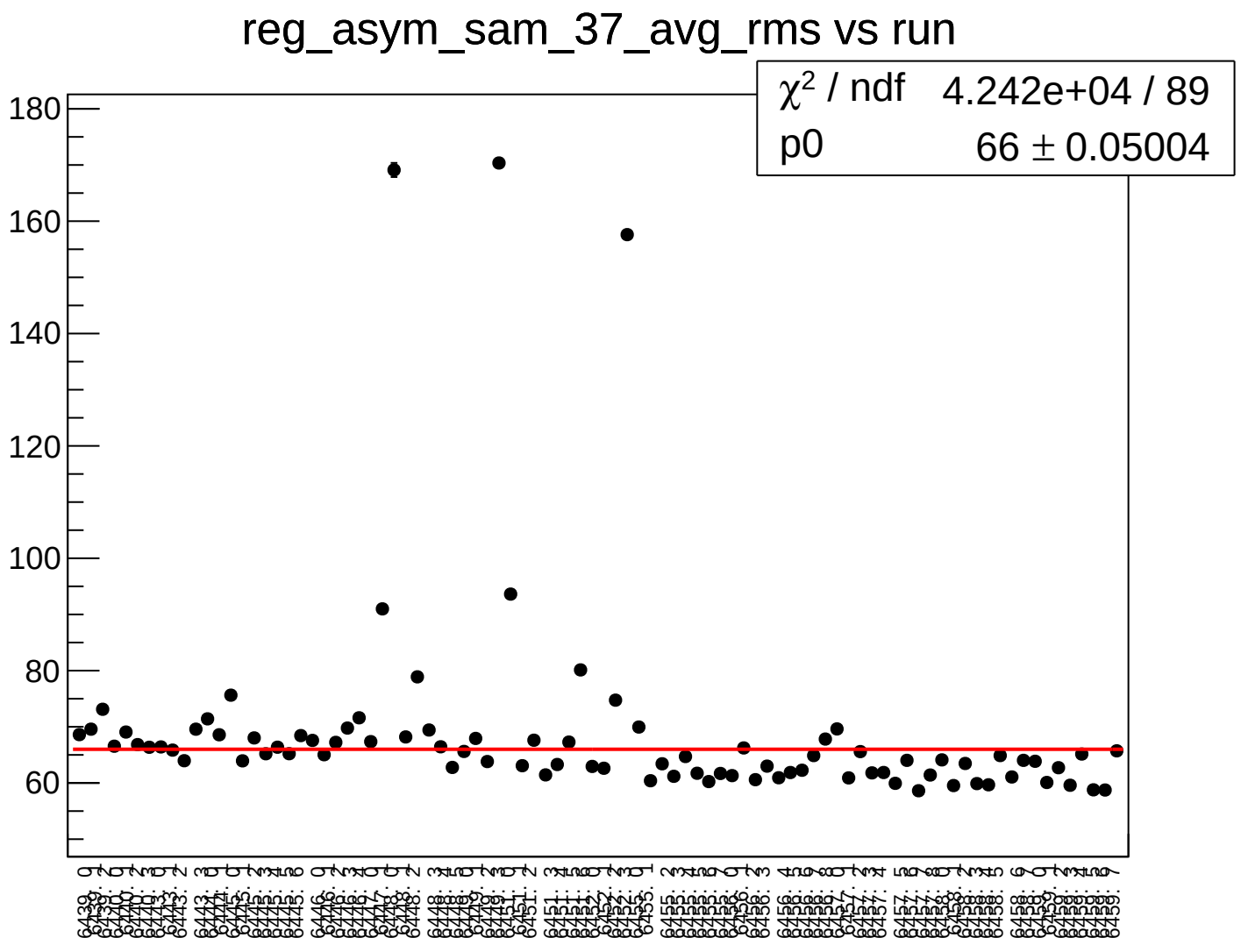

asym_sam_26_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.96 / 89
p0 6.082e−15 ± 1.619e−14
pull
Entries 90
Mean 69.07
Std Dev 36.72

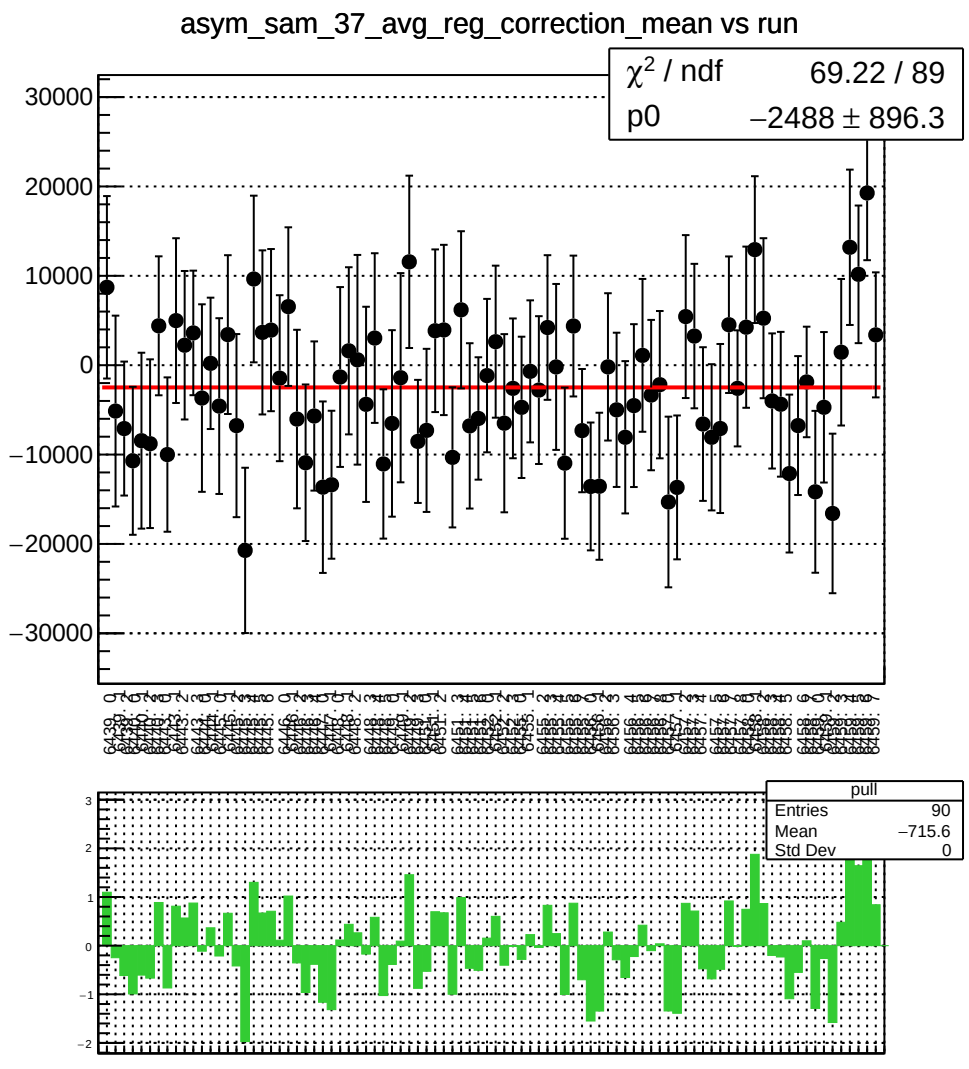

pull1D
Entries 90
Mean −0.01542
Std Dev 0.9246

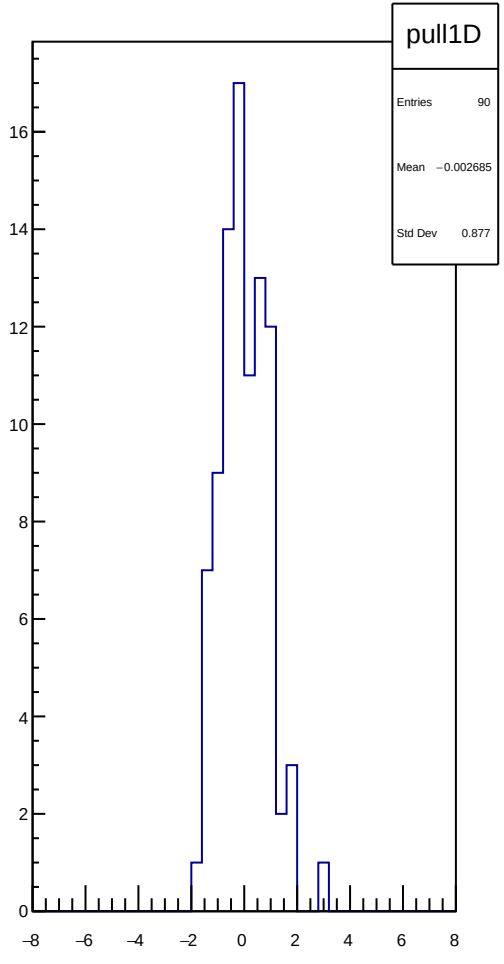

asym_sam_26_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
χ² / ndf 5.576e+05 / 89
p0 1.266e−11 ± 1.144e−14

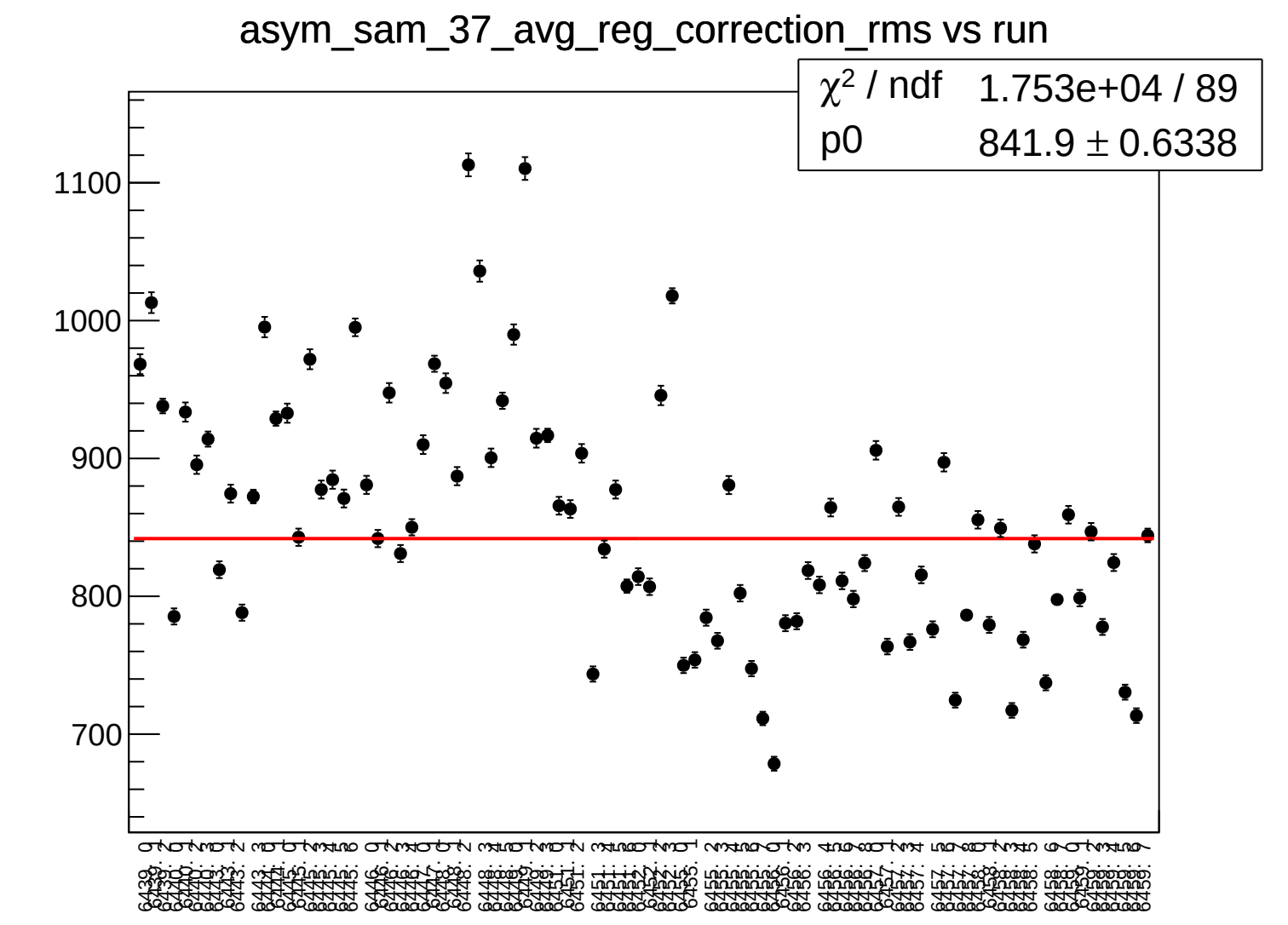

reg_asym_sam_37_avg_mean vs run
χ² / ndf 98.73 / 89
p0 −62.47 ± 70.77
pull
Entries 90
Mean 27.29
Std Dev 9.954

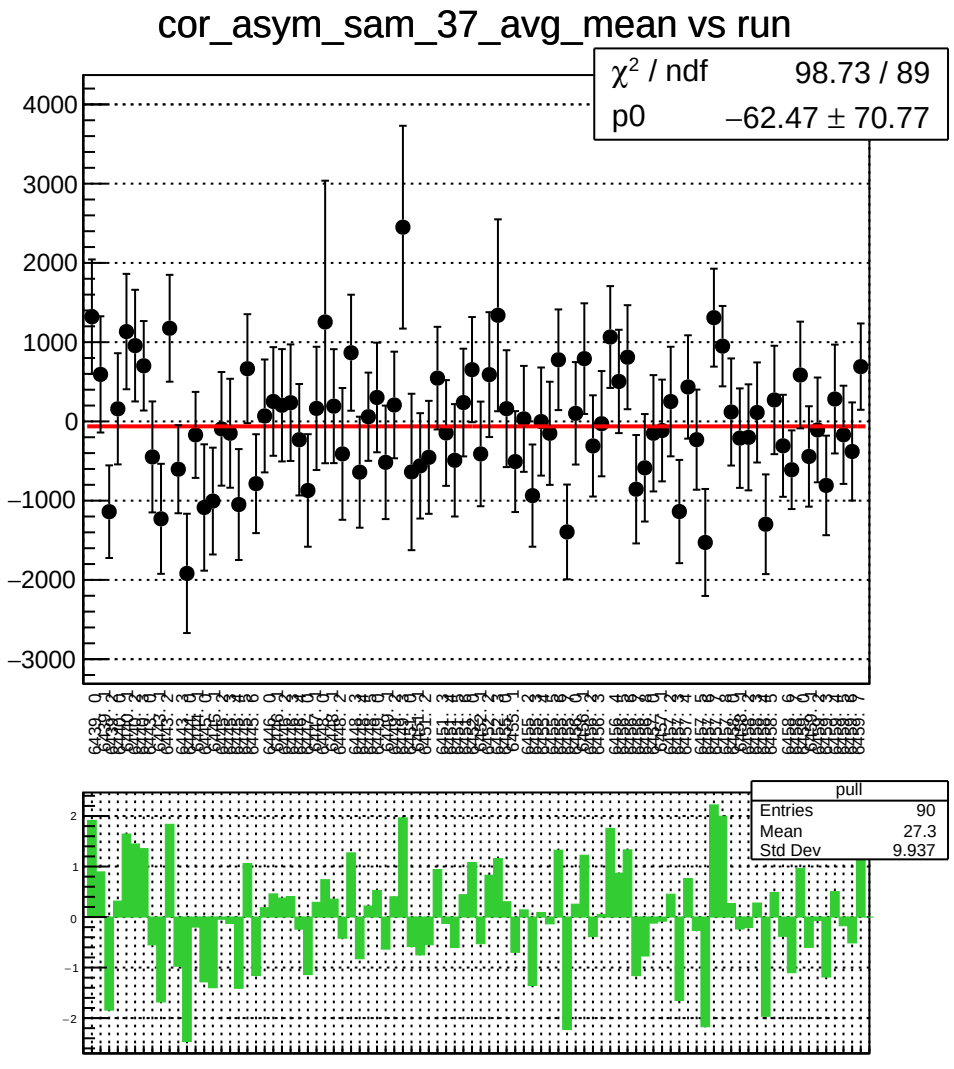

pull1D
Entries 90
Mean 0.0197
Std Dev 1.047

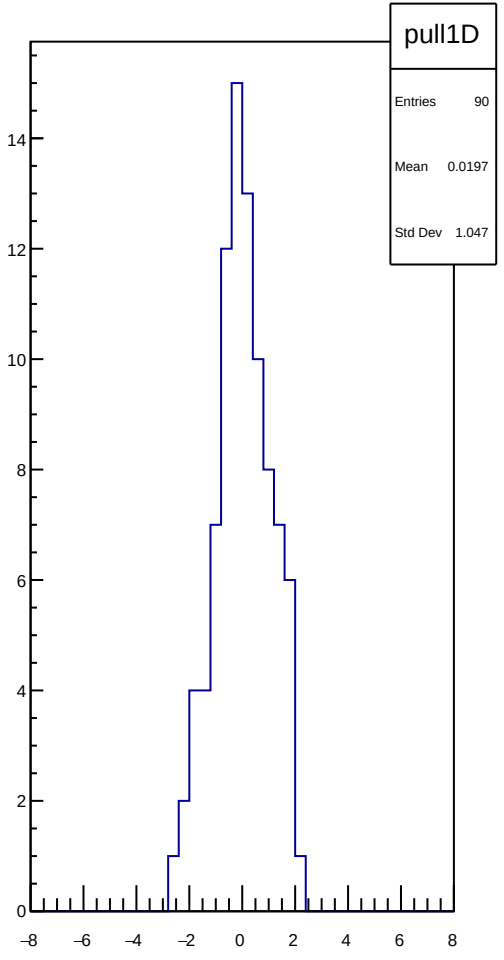

reg_asym_sam_37_avg_rms vs run
χ² / ndf 4.242e+04 / 89
p0 66 ± 0.05004
180
160
140
120
100
80
60

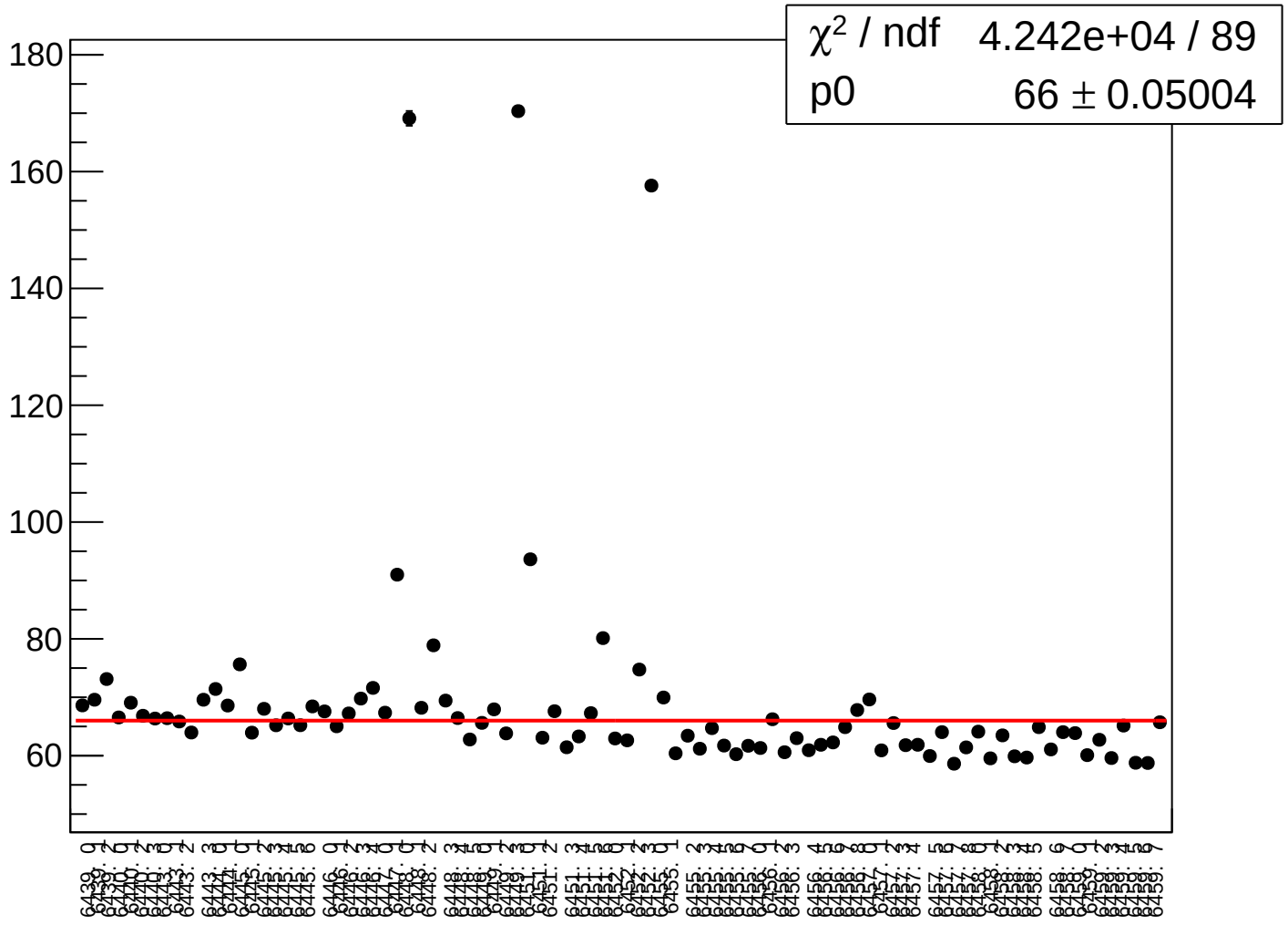

asym_sam_37_avg_reg_correction_mean vs run
χ² / ndf 69.22 / 89
p0 −2488 ± 896.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean −715.6
Std Dev 0
3
2
1
0
−1
−2

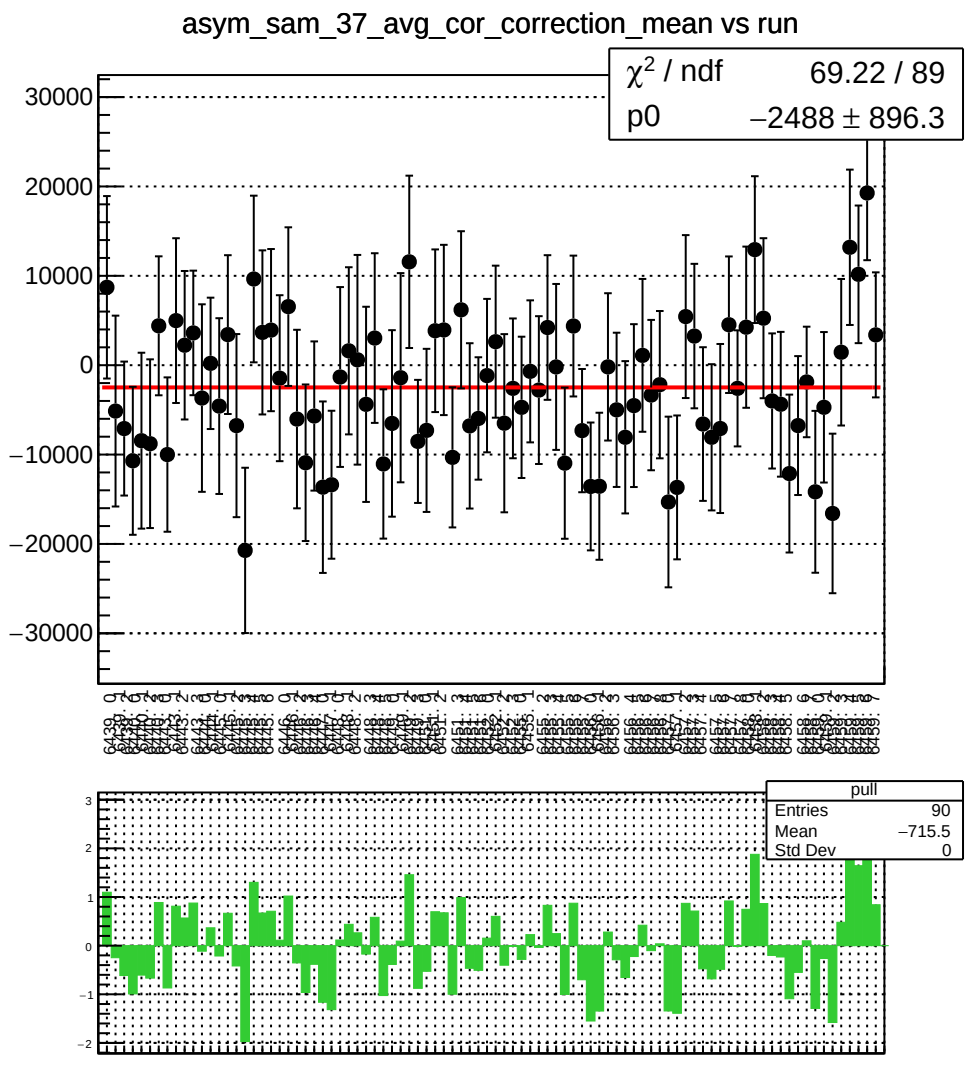

pull1D
Entries 90
Mean −0.002685
Std Dev 0.877
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

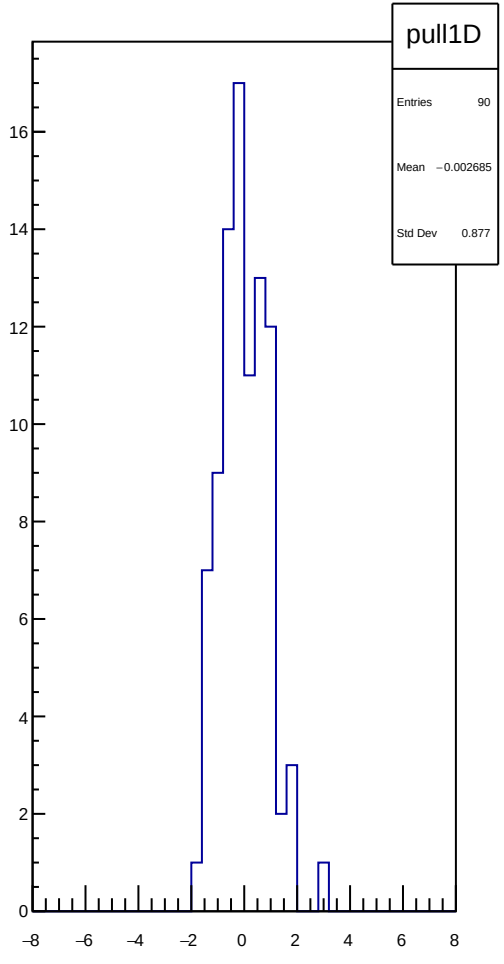

asym_sam_37_avg_reg_correction_rms vs run
χ² / ndf 1.753e+04 / 89
p0 841.9 ± 0.6338
1100
1000
900
800
700


cor_asym_sam_37_avg_mean vs run
χ² / ndf 98.73 / 89
p0 −62.47 ± 70.77
pull
Entries 90
Mean 27.3
Std Dev 9.937


pull1D
Entries 90
Mean 0.0197
Std Dev 1.047


cor_asym_sam_37_avg_rms vs run
χ^2 / ndf 4.242e+04 / 89
p0 66 ± 0.05004
180
160
140
120
100
80
60


asym_sam_37_avg_cor_correction_mean vs run
χ² / ndf 69.22 / 89
p0 −2488 ± 896.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean −715.5
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 90
Mean −0.002685
Std Dev 0.877
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
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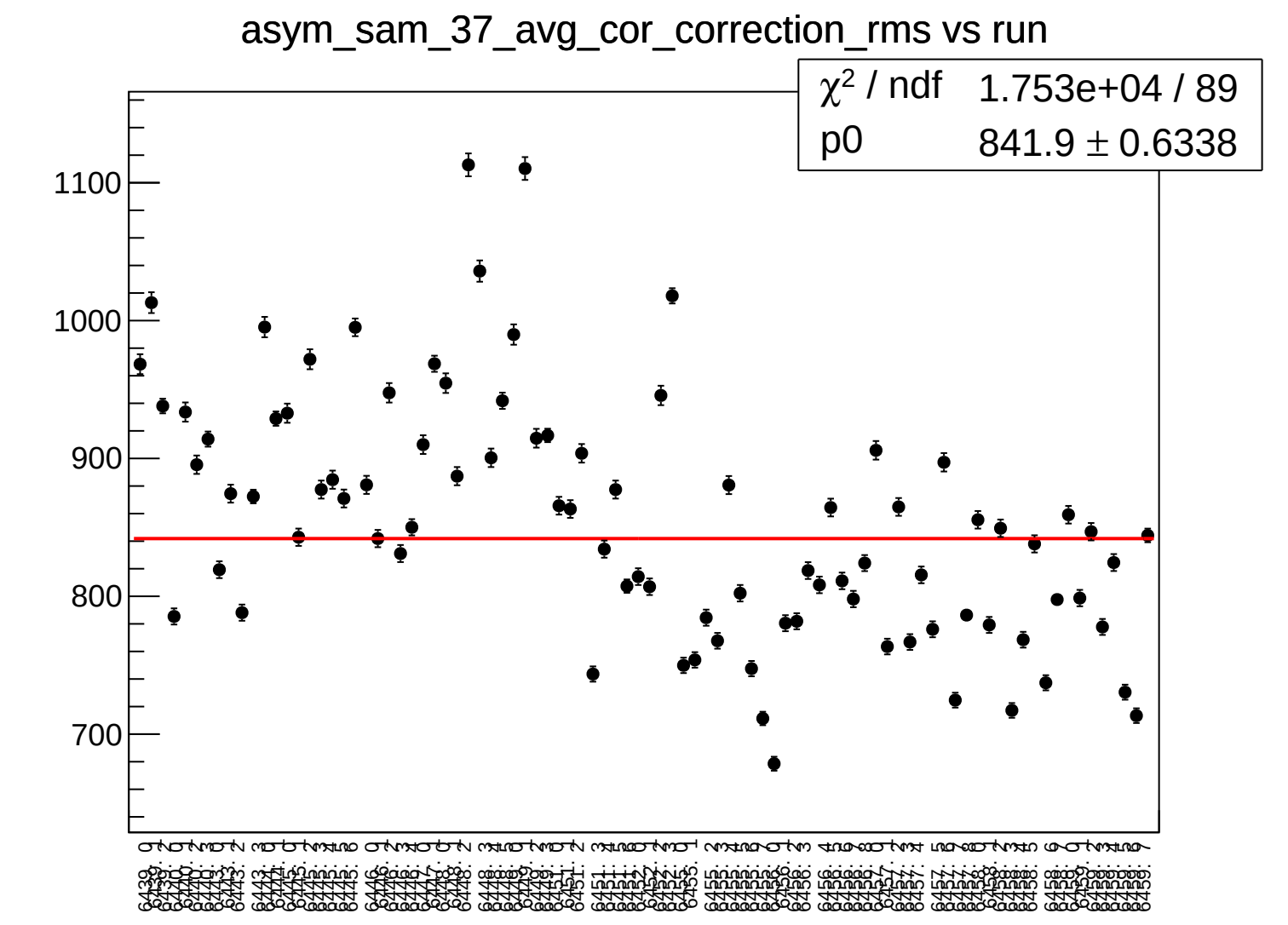
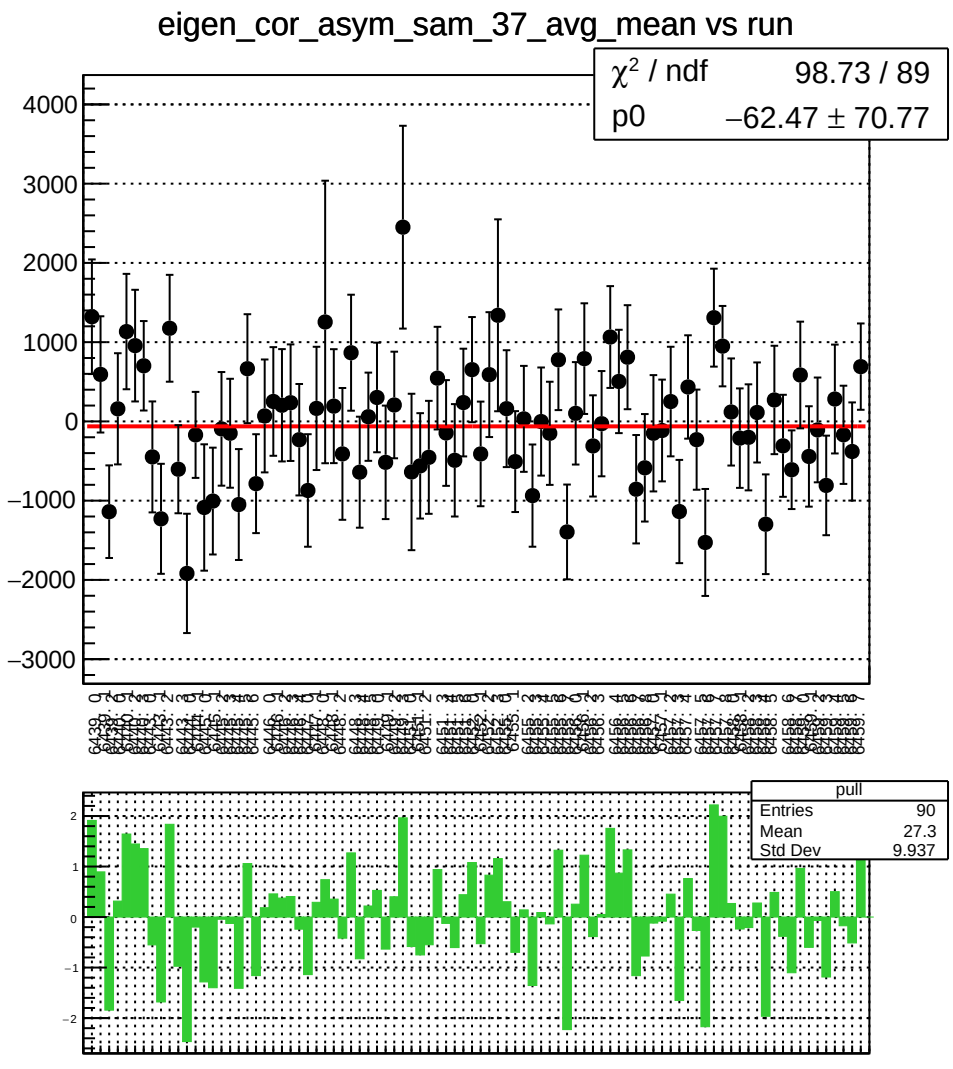
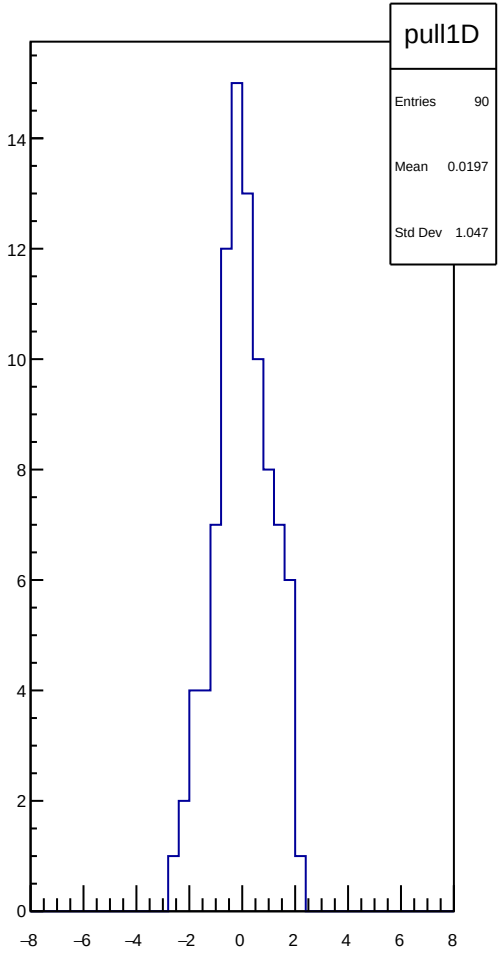
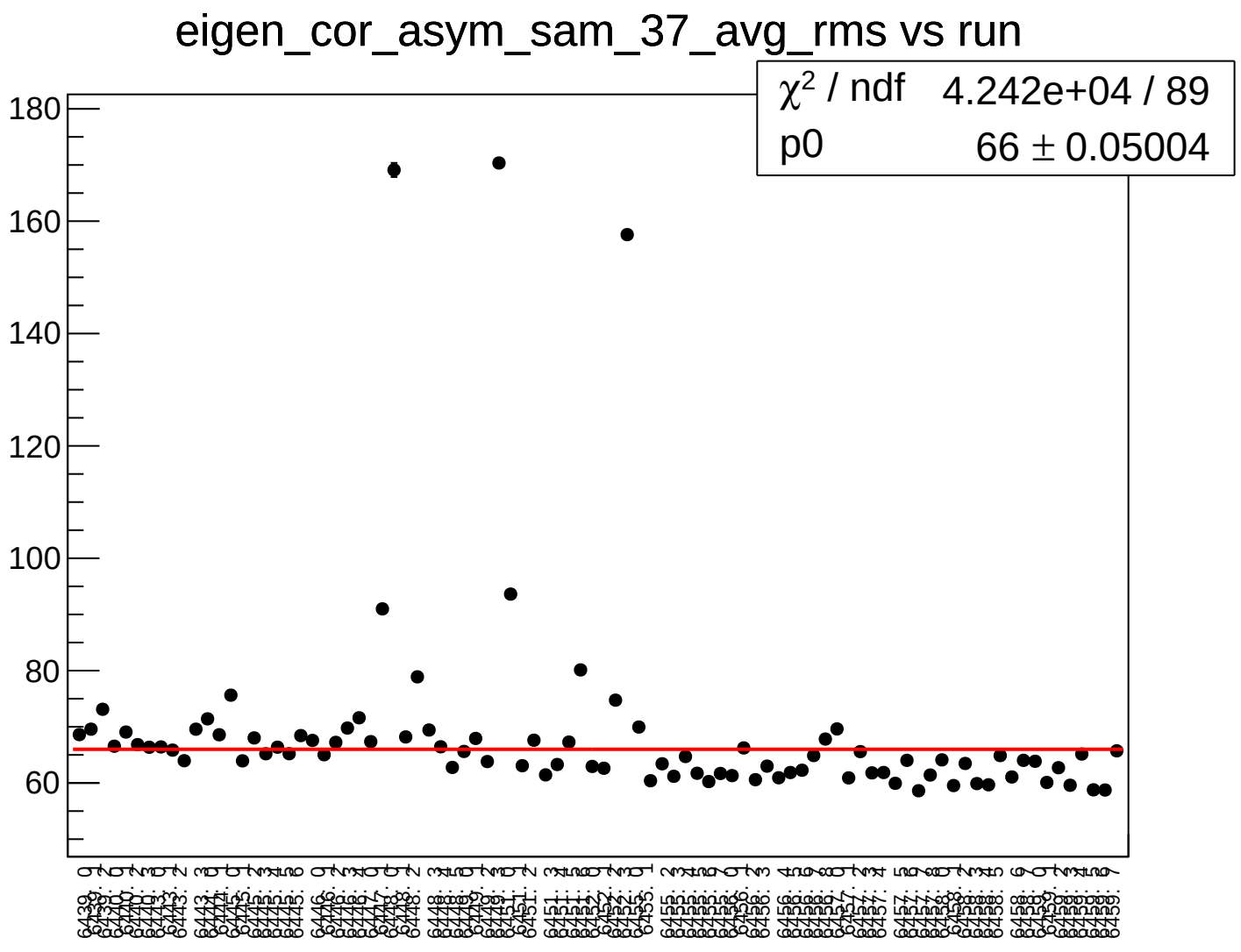
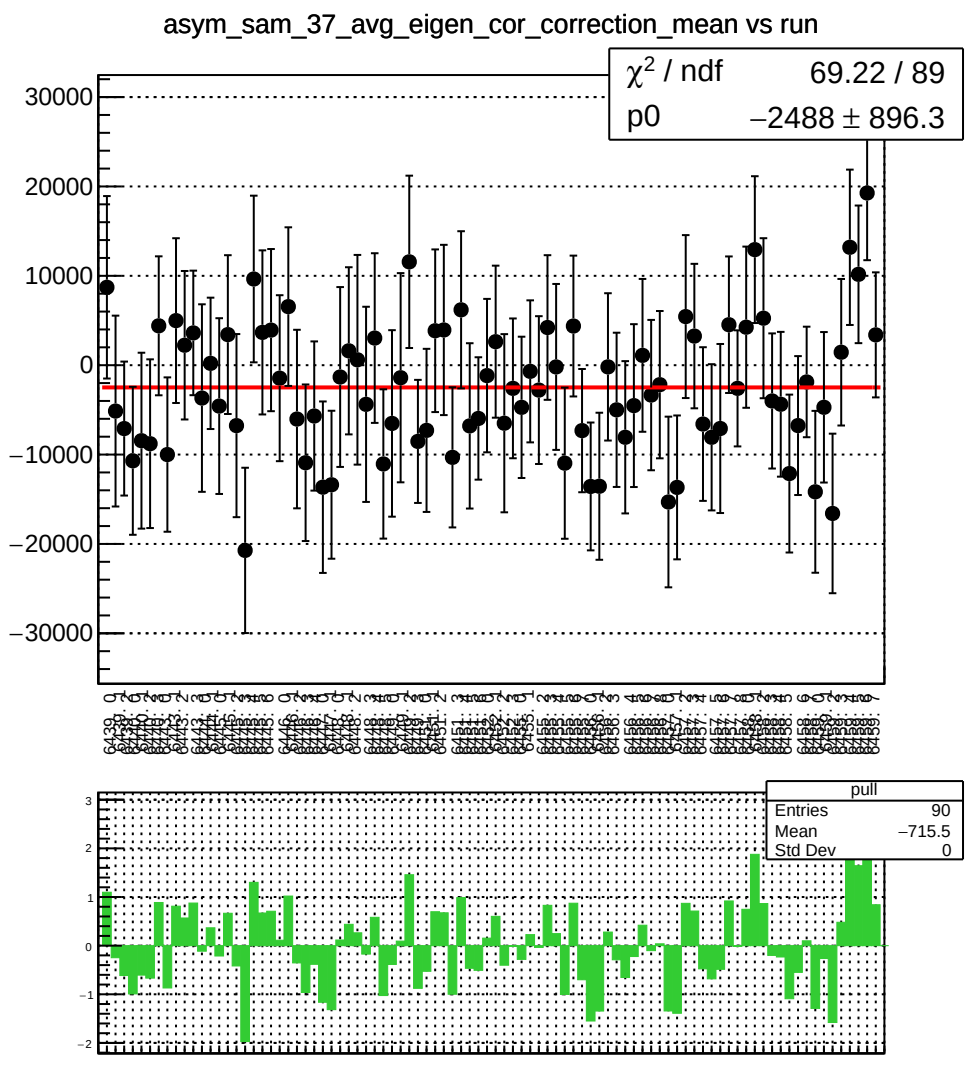
2
4
6
8

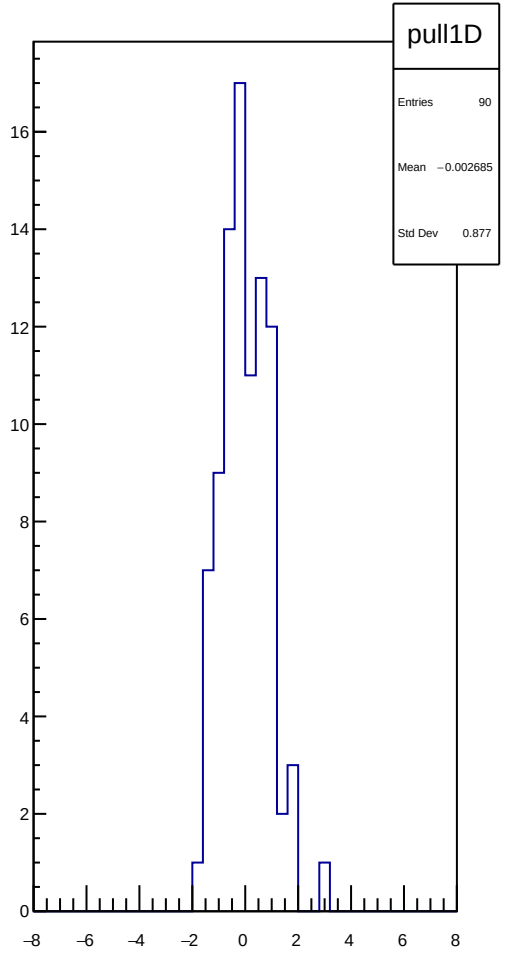

asym_sam_37_avg_cor_correction_rms vs run
χ² / ndf 1.753e+04 / 89
p0 841.9 ± 0.6338
1100
1000
900
800
700


eigen_cor_asym_sam_37_avg_mean vs run
χ² / ndf 98.73 / 89
p0 −62.47 ± 70.77
pull
Entries 90
Mean 27.3
Std Dev 9.937


pull1D
Entries 90
Mean 0.0197
Std Dev 1.047


eigen_cor_asym_sam_37_avg_rms vs run
χ² / ndf 4.242e+04 / 89
p0 66 ± 0.05004
180
160
140
120
100
80
60


asym_sam_37_avg_eigen_cor_correction_mean vs run
χ² / ndf 69.22 / 89
p0 −2488 ± 896.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean −715.5
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 90
Mean −0.002685
Std Dev 0.877
16
14
12
10
8
6
4
2
0
−8
−6
−4
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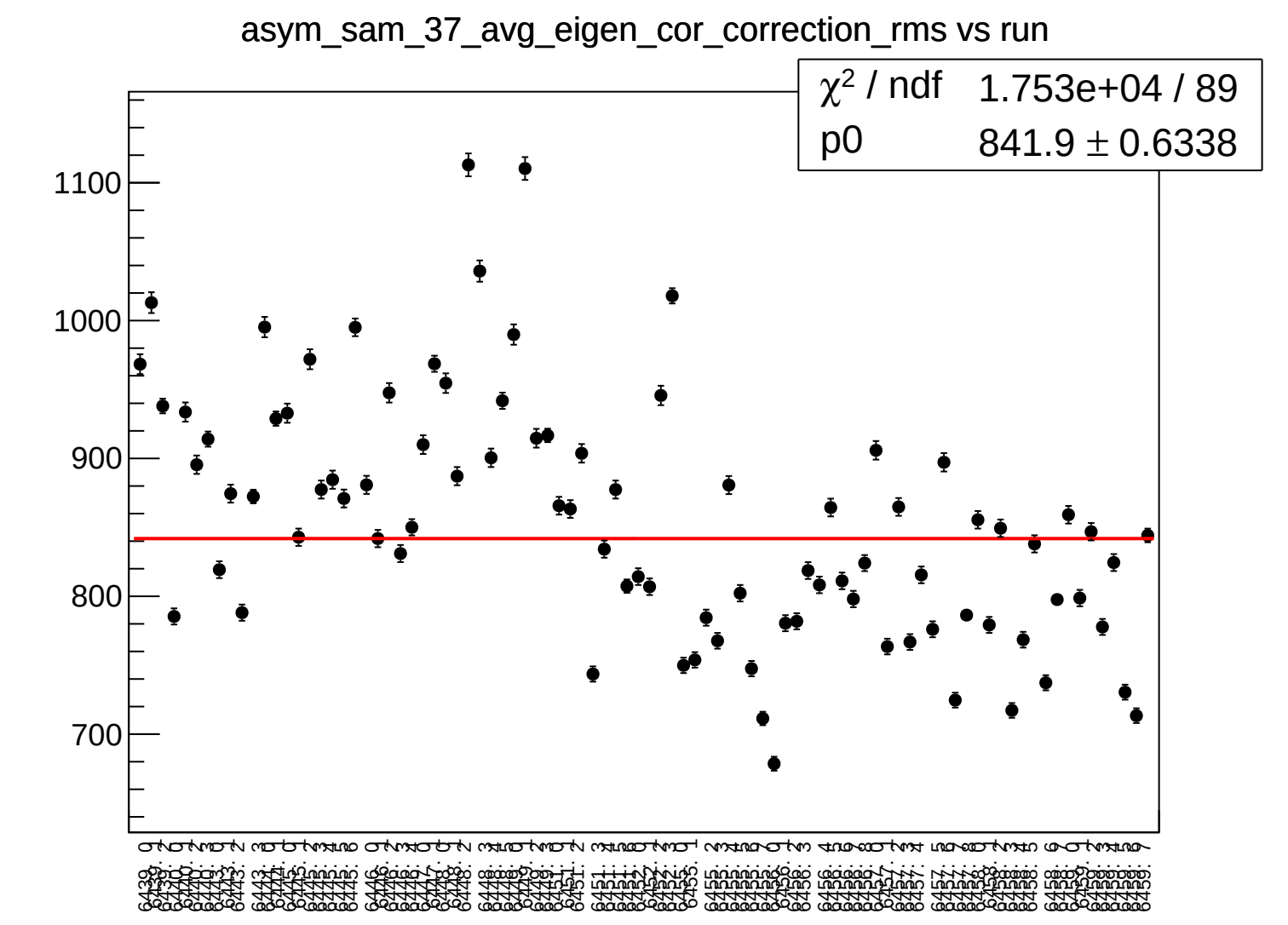
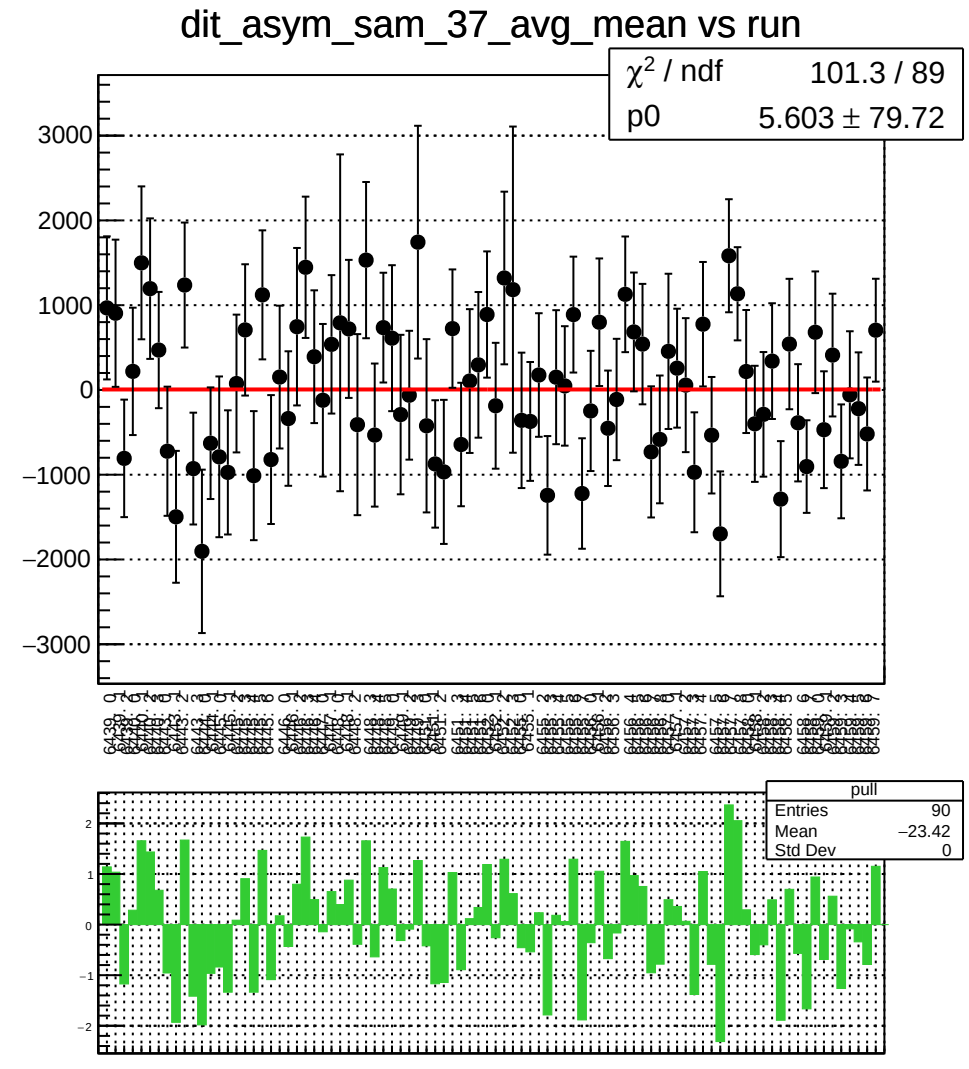
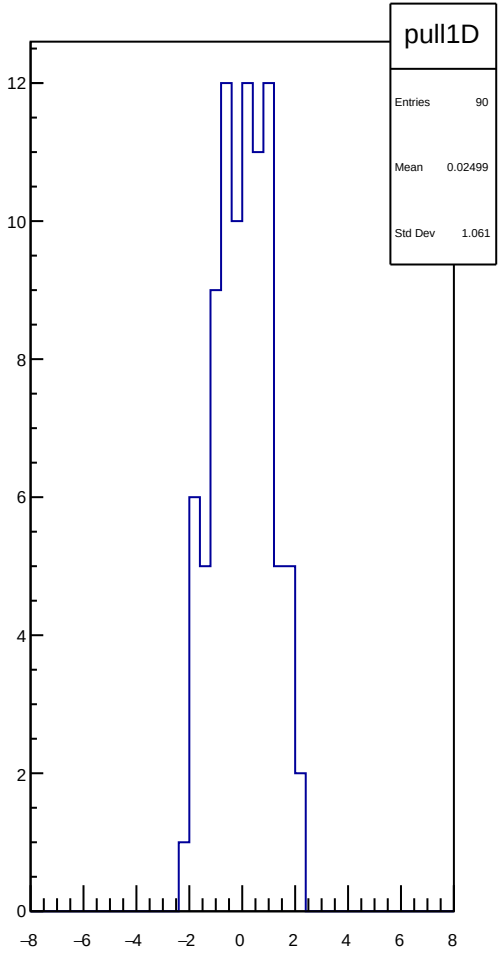
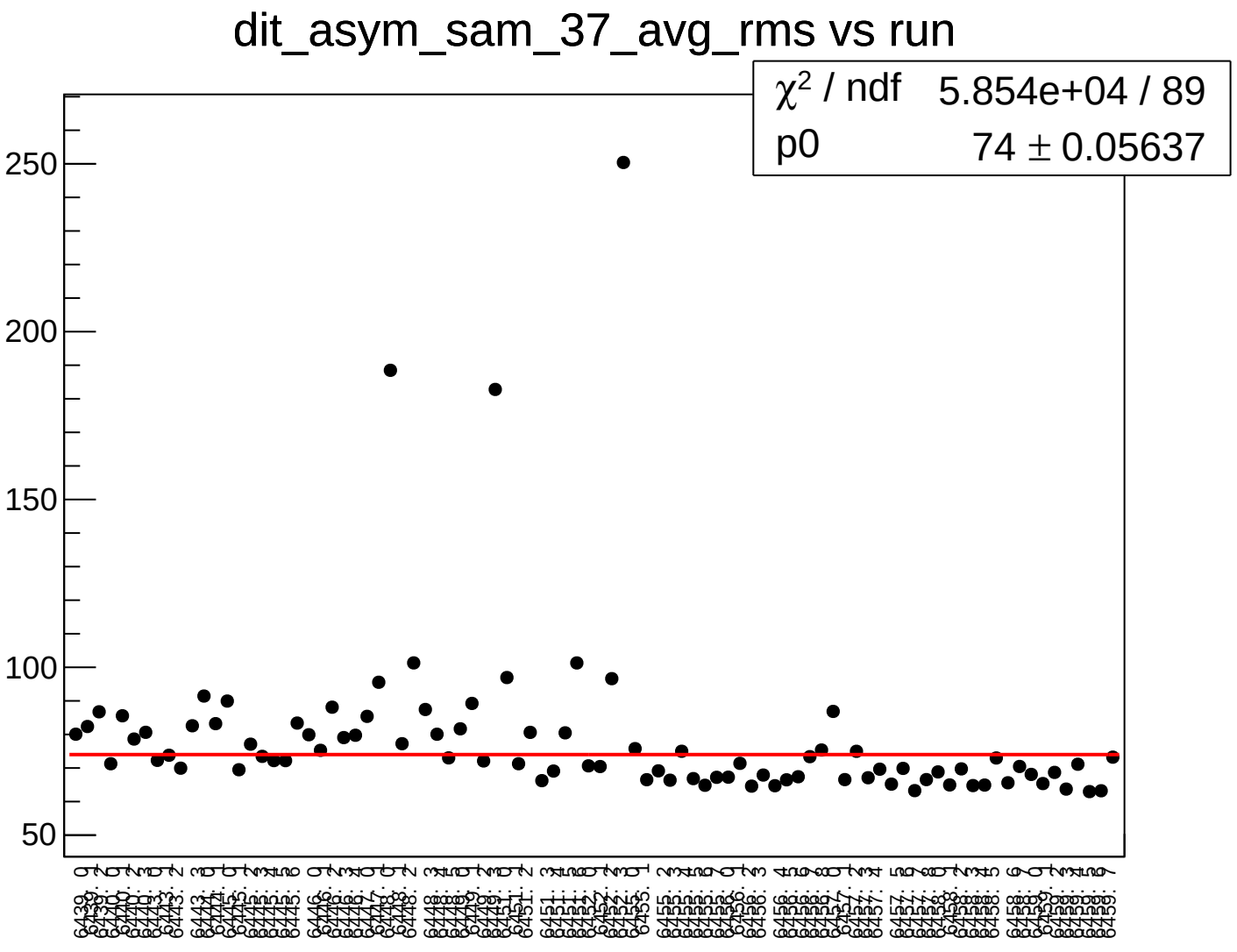
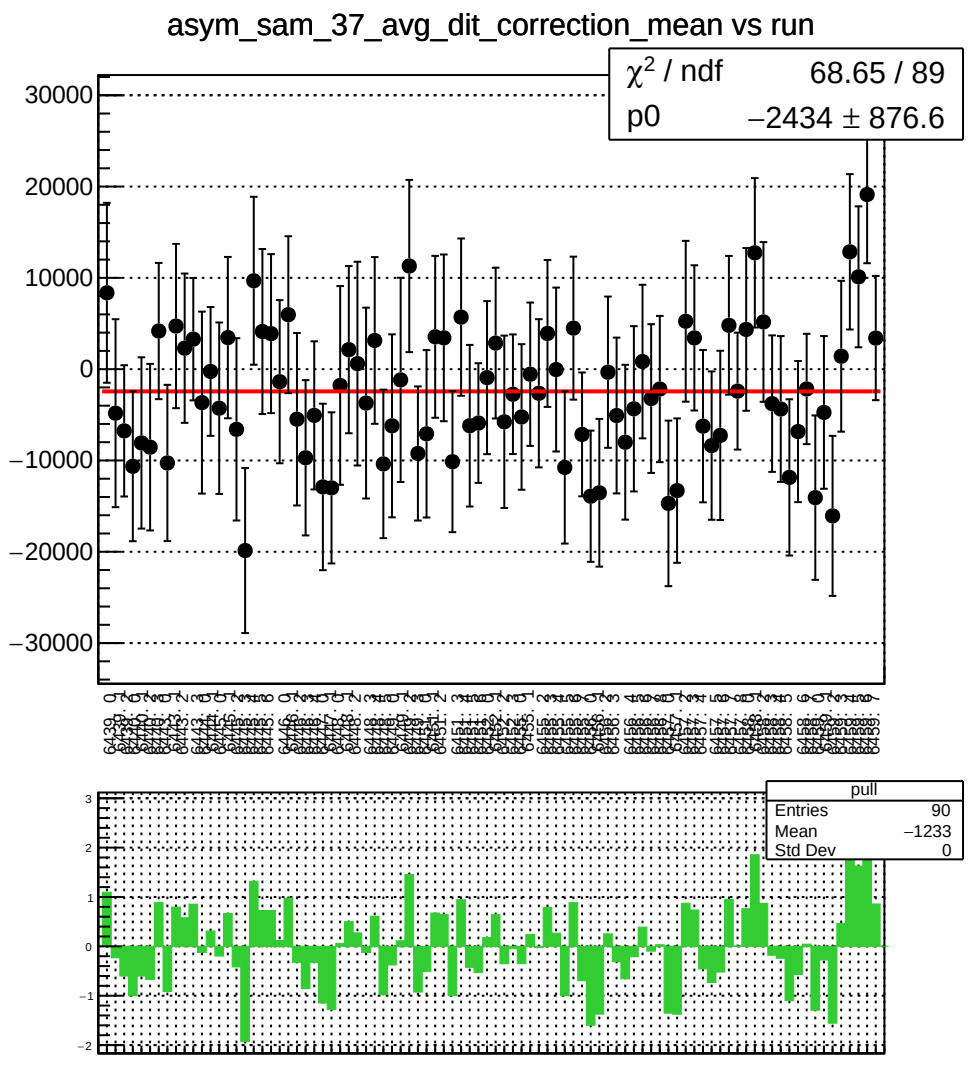
0
2
4
6
8

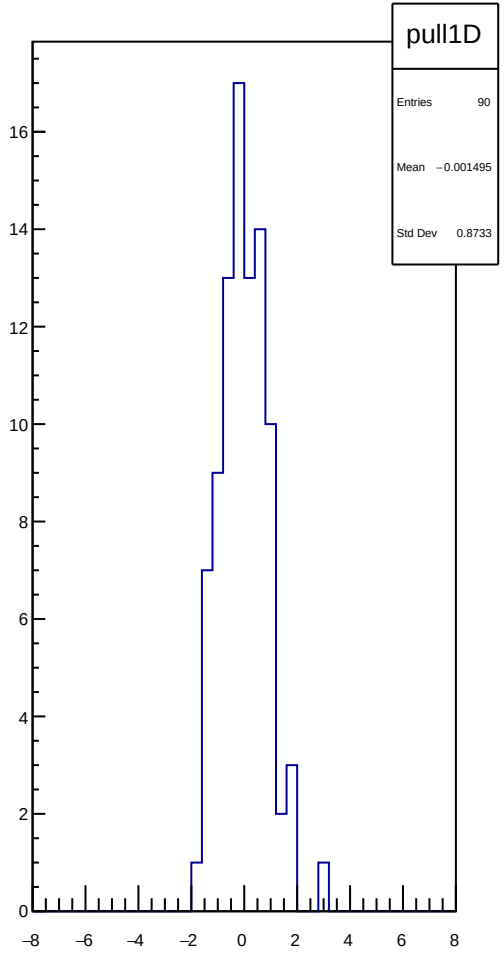

asym_sam_37_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.753e+04 / 89
p0 841.9 ± 0.6338
1100
1000
900
800
700

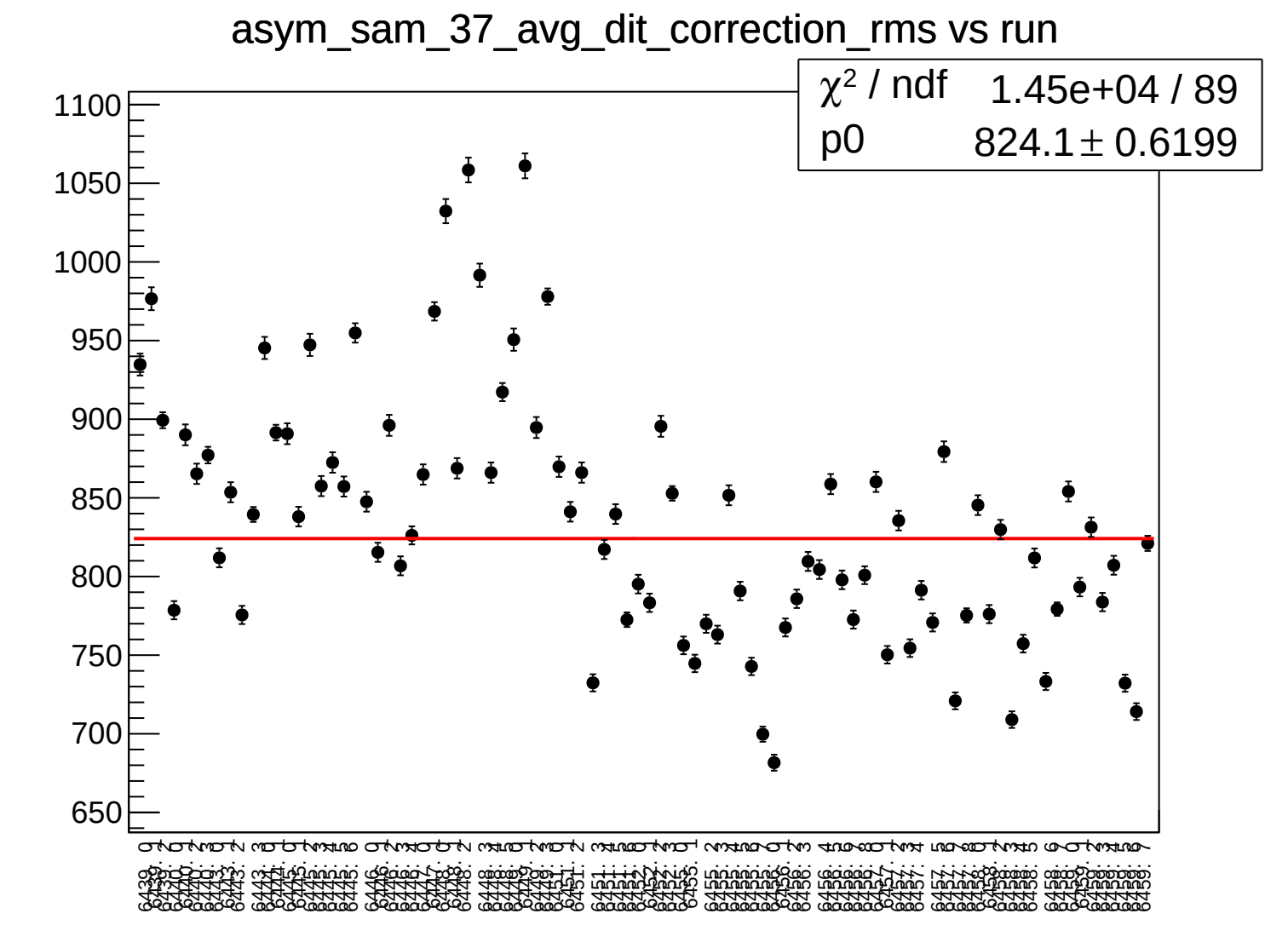

dit_asym_sam_37_avg_mean vs run
χ² / ndf 101.3 / 89
p0 5.603 ± 79.72
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 90
Mean −23.42
Std Dev 0
2
1
0
−1
−2

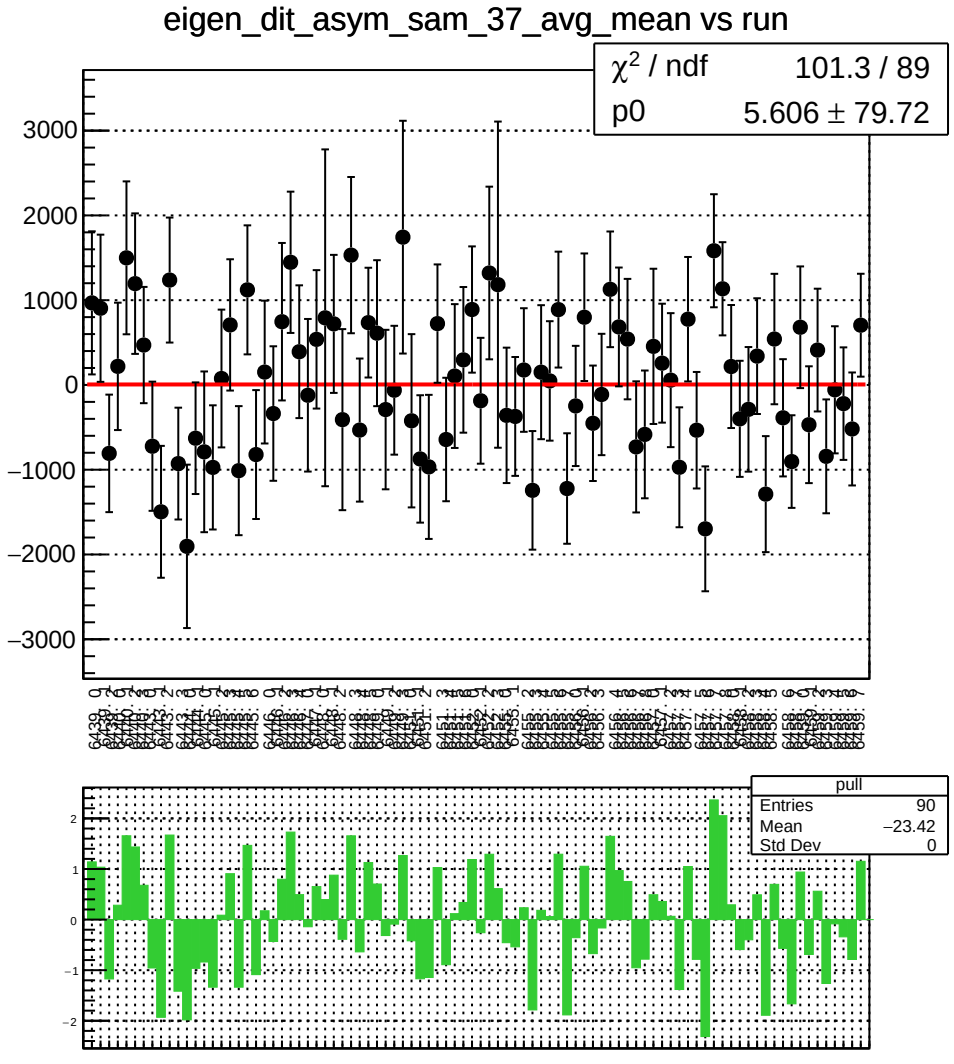

pull1D
Entries 90
Mean 0.02499
Std Dev 1.061
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

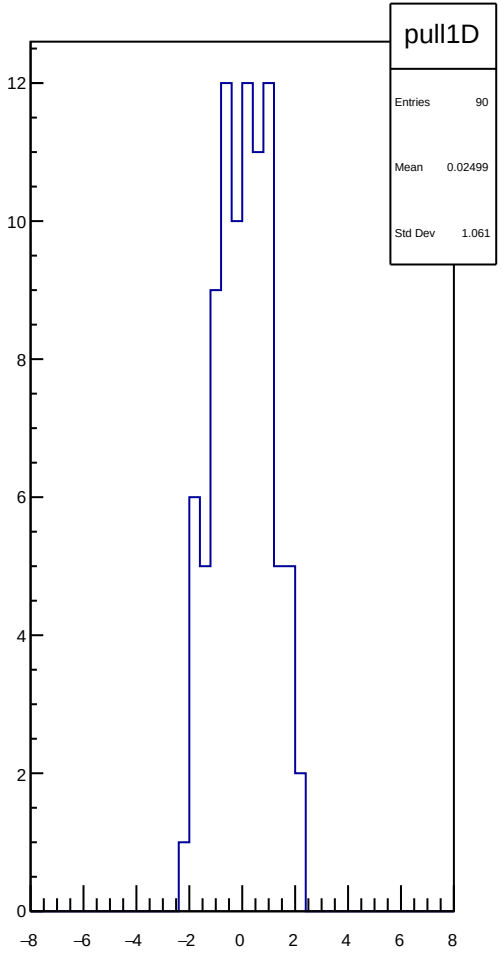

dit_asym_sam_37_avg_rms vs run
χ² / ndf 5.854e+04 / 89
p0 74 ± 0.05637
250
200
150
100
50

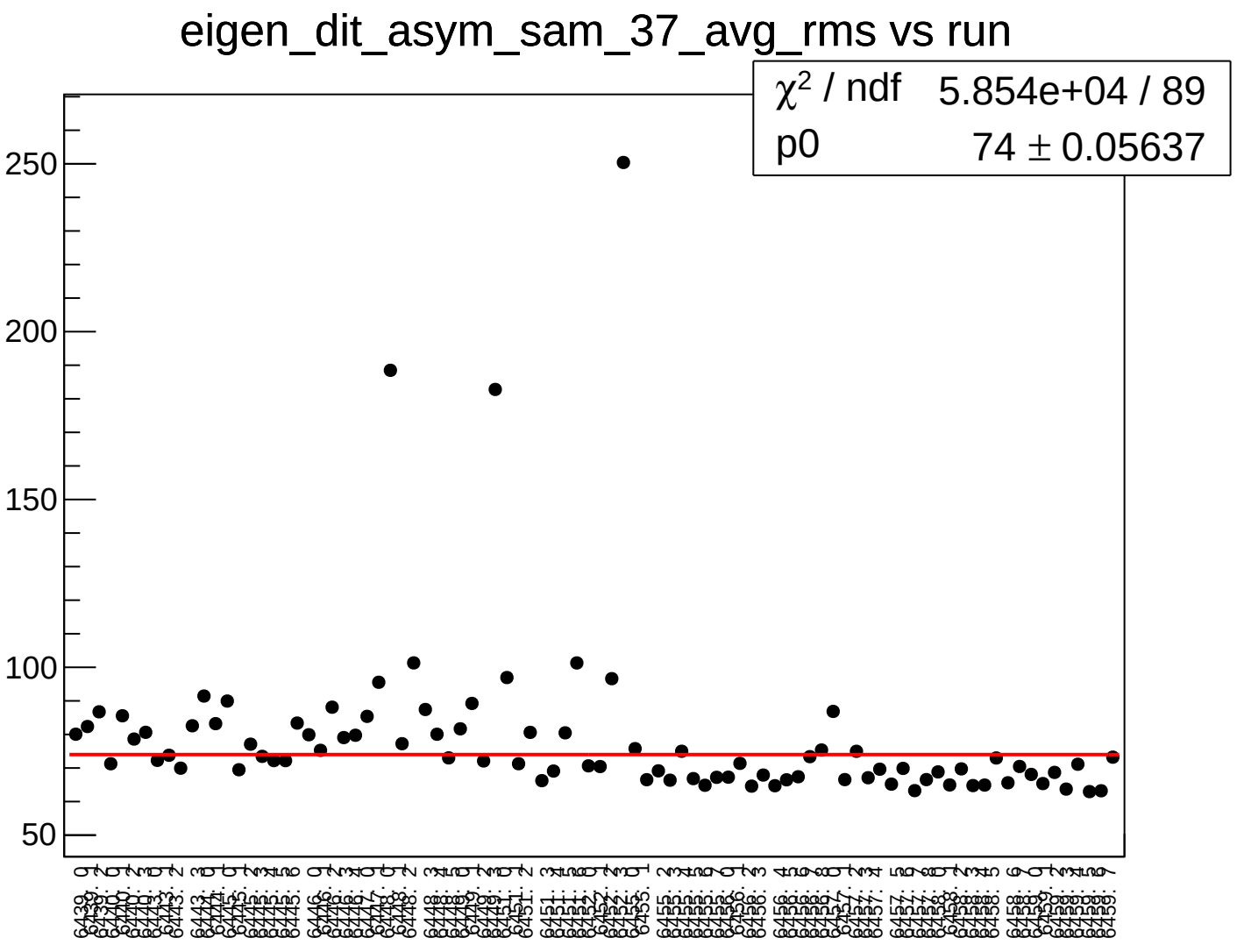

asym_sam_37_avg_dit_correction_mean vs run
χ² / ndf 68.65 / 89
p0 −2434 ± 876.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean −1233
Std Dev 0
3
2
1
0
−1
−2

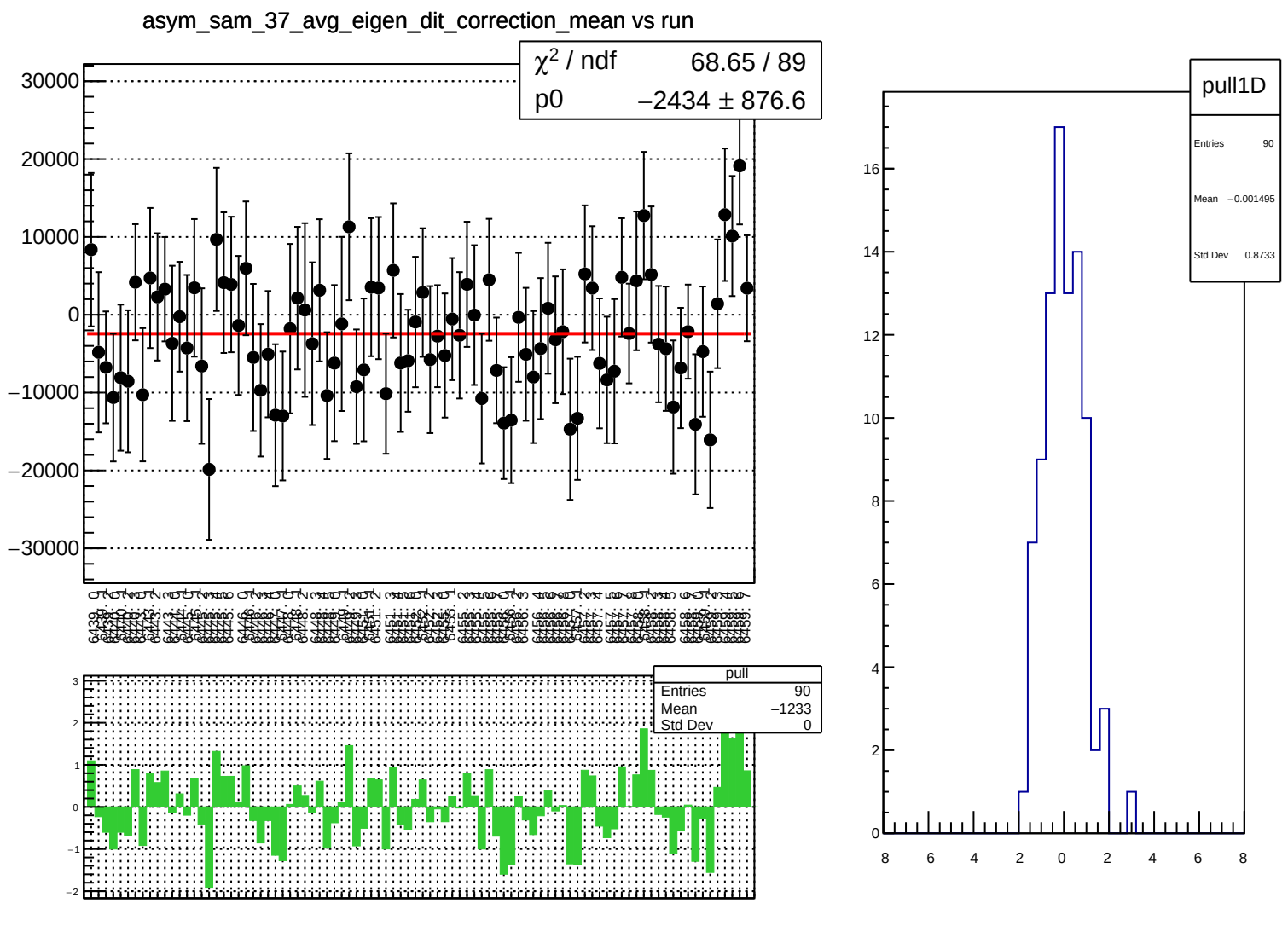

pull1D
Entries 90
Mean −0.001495
Std Dev 0.8733
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

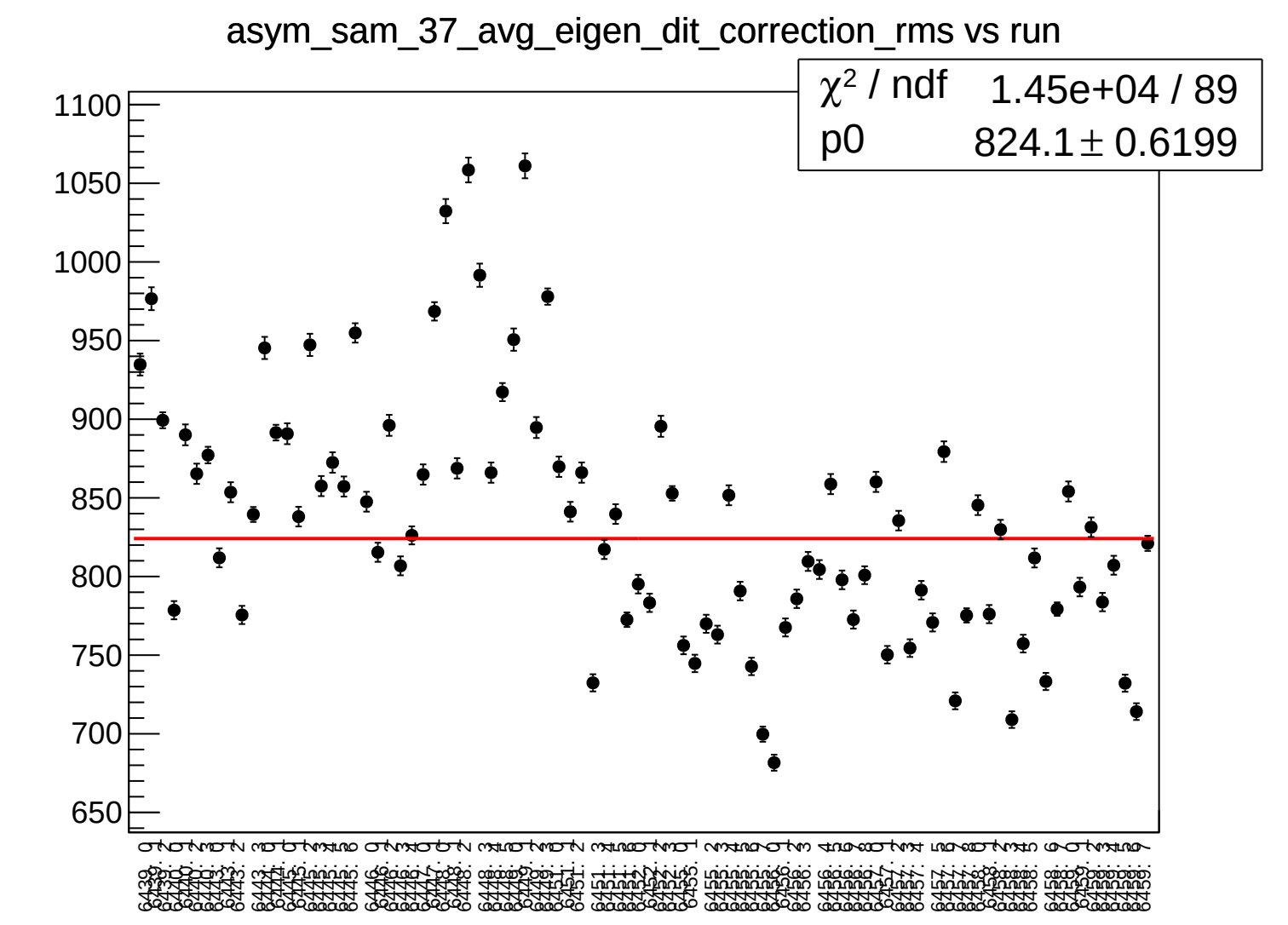

asym_sam_37_avg_dit_correction_rms vs run
χ² / ndf 1.45e+04 / 89
p0 824.1 ± 0.6199
1100
1050
1000
950
900
850
800
750
700
650

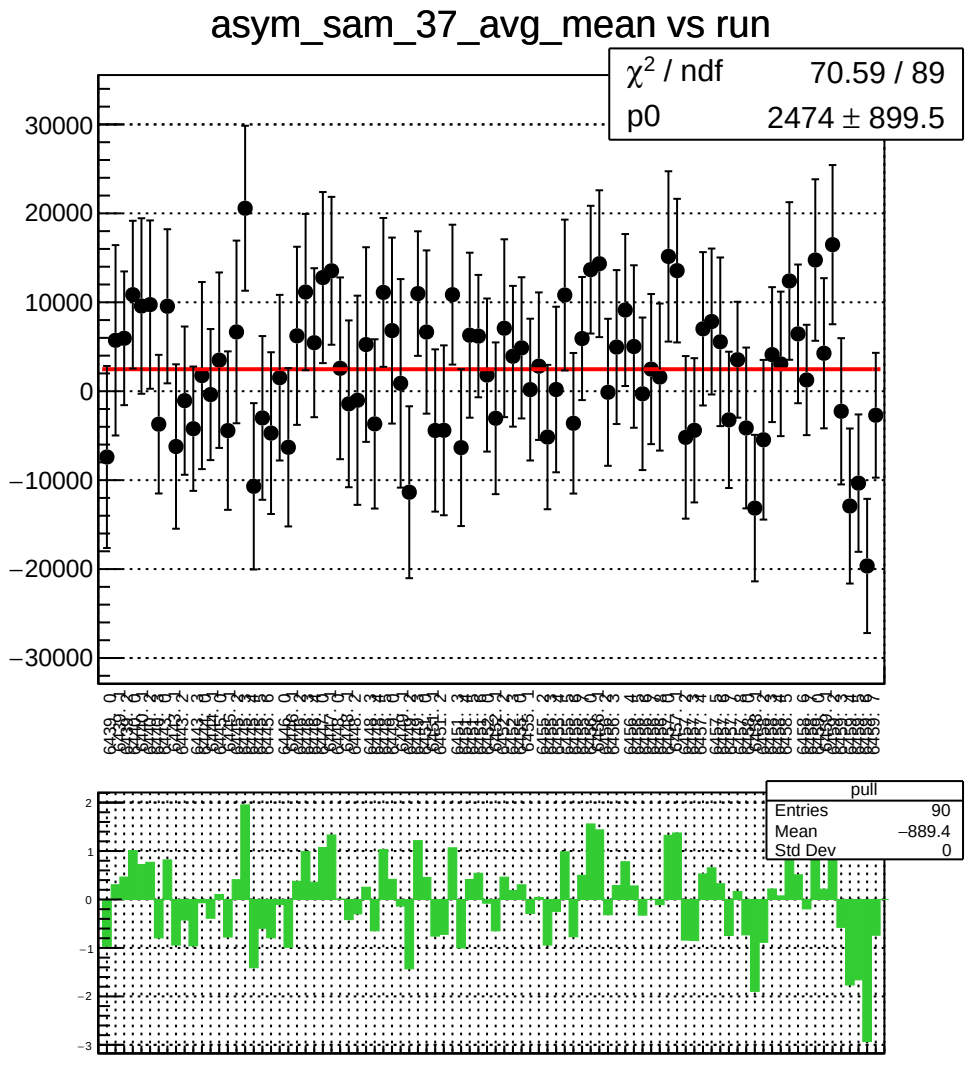

eigen_dit_asym_sam_37_avg_mean vs run
χ^2 / ndf 101.3 / 89
p0 5.606 ± 79.72
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 90
Mean −23.42
Std Dev 0
2
1
0
−1
−2

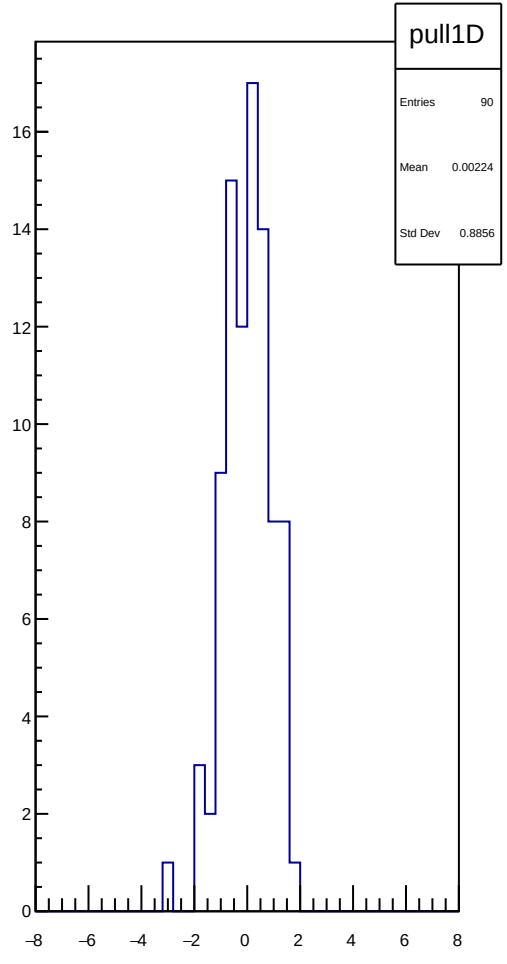

pull1D
Entries 90
Mean 0.02499
Std Dev 1.061
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

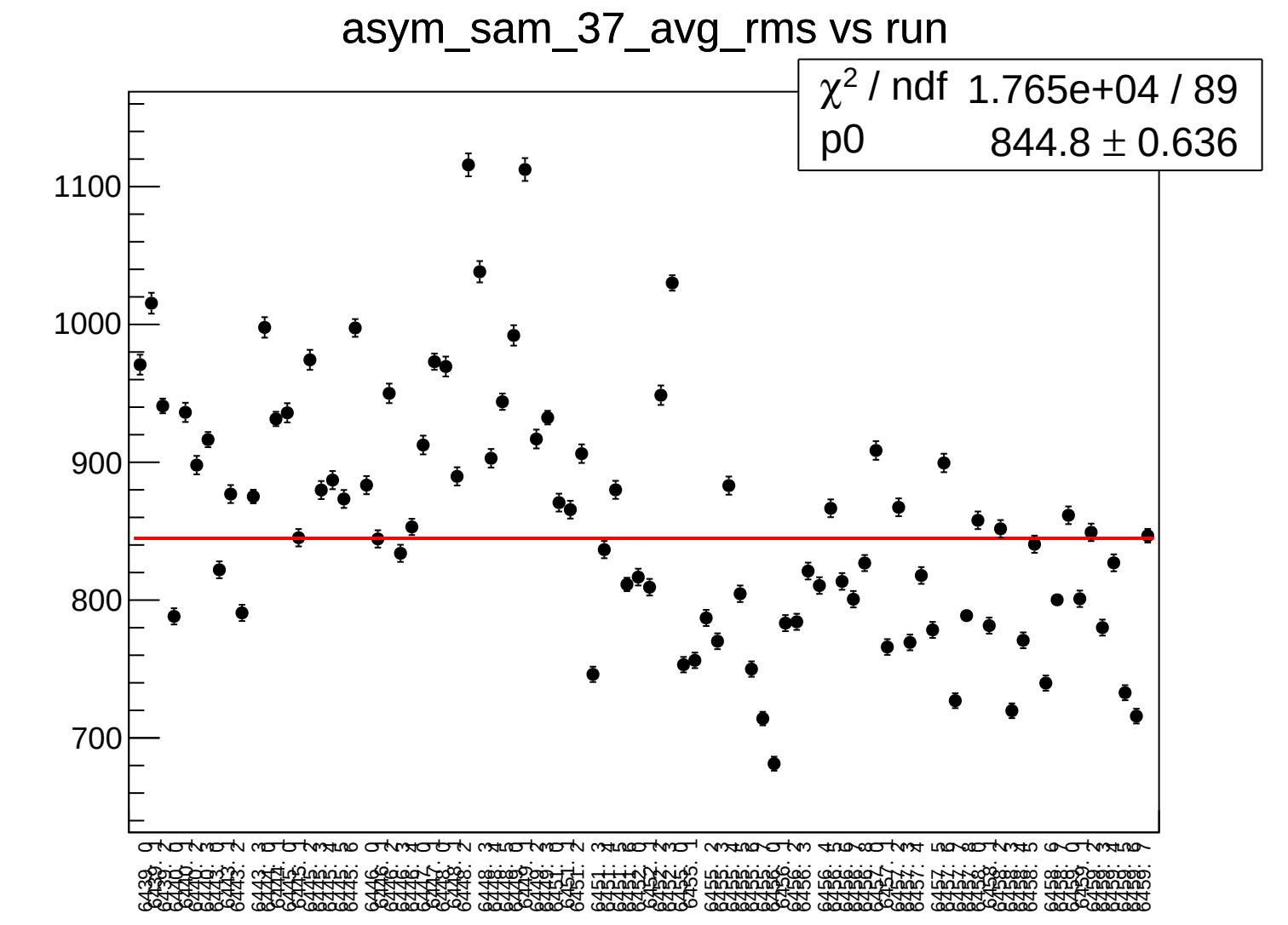

eigen_dit_asym_sam_37_avg_rms vs run
χ² / ndf 5.854e+04 / 89
p0 74 ± 0.05637
250
200
150
100
50

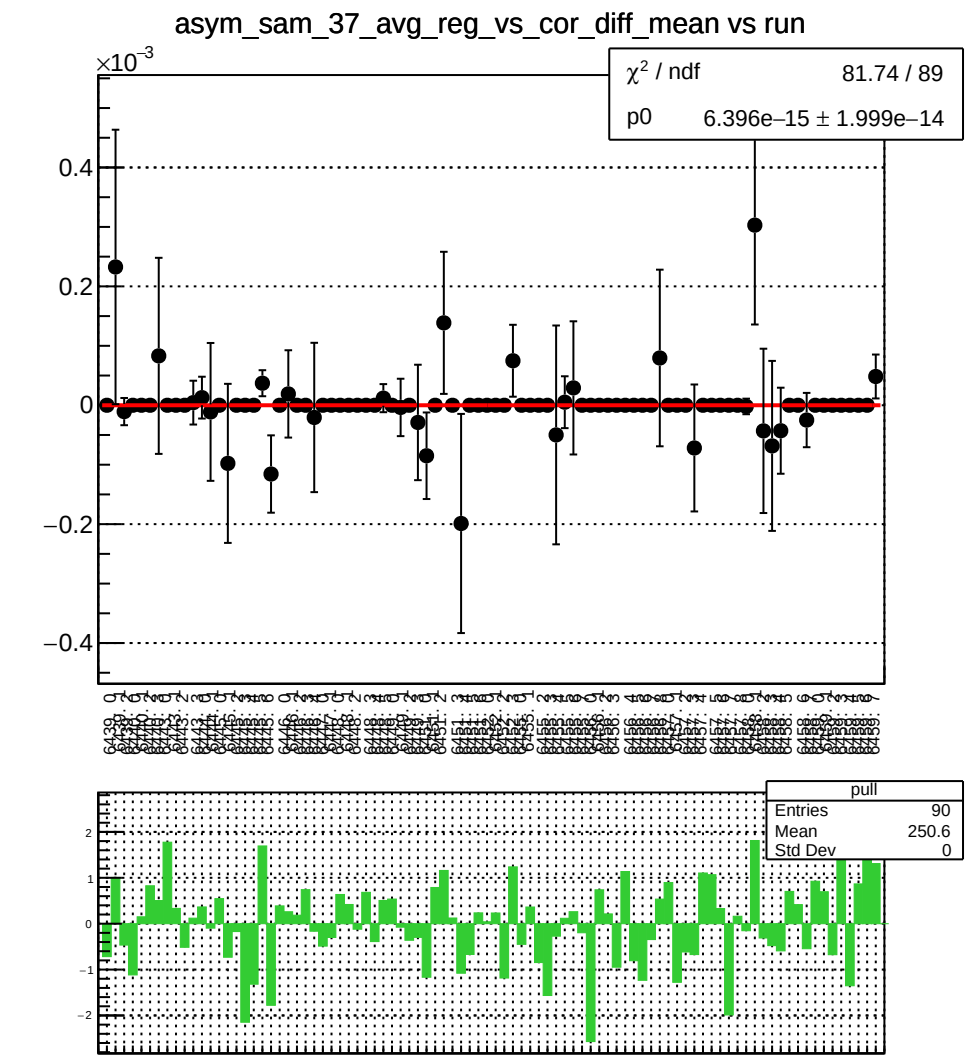

asym_sam_37_avg_eigen_dit_correction_mean vs run
χ² / ndf 68.65 / 89
p0 −2434 ± 876.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean −1233
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.001495
Std Dev 0.8733
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

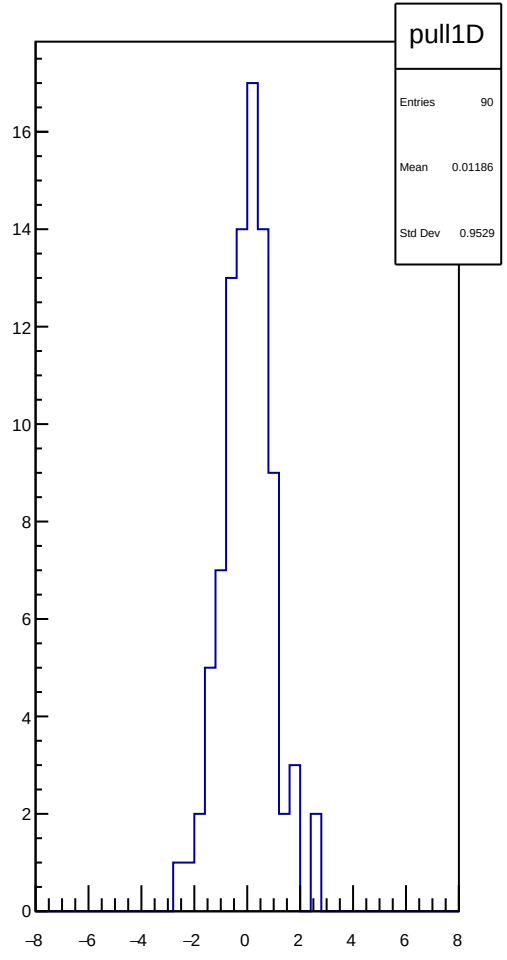

asym_sam_37_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.45e+04 / 89
p0 824.1 ± 0.6199
1100
1050
1000
950
900
850
800
750
700
650

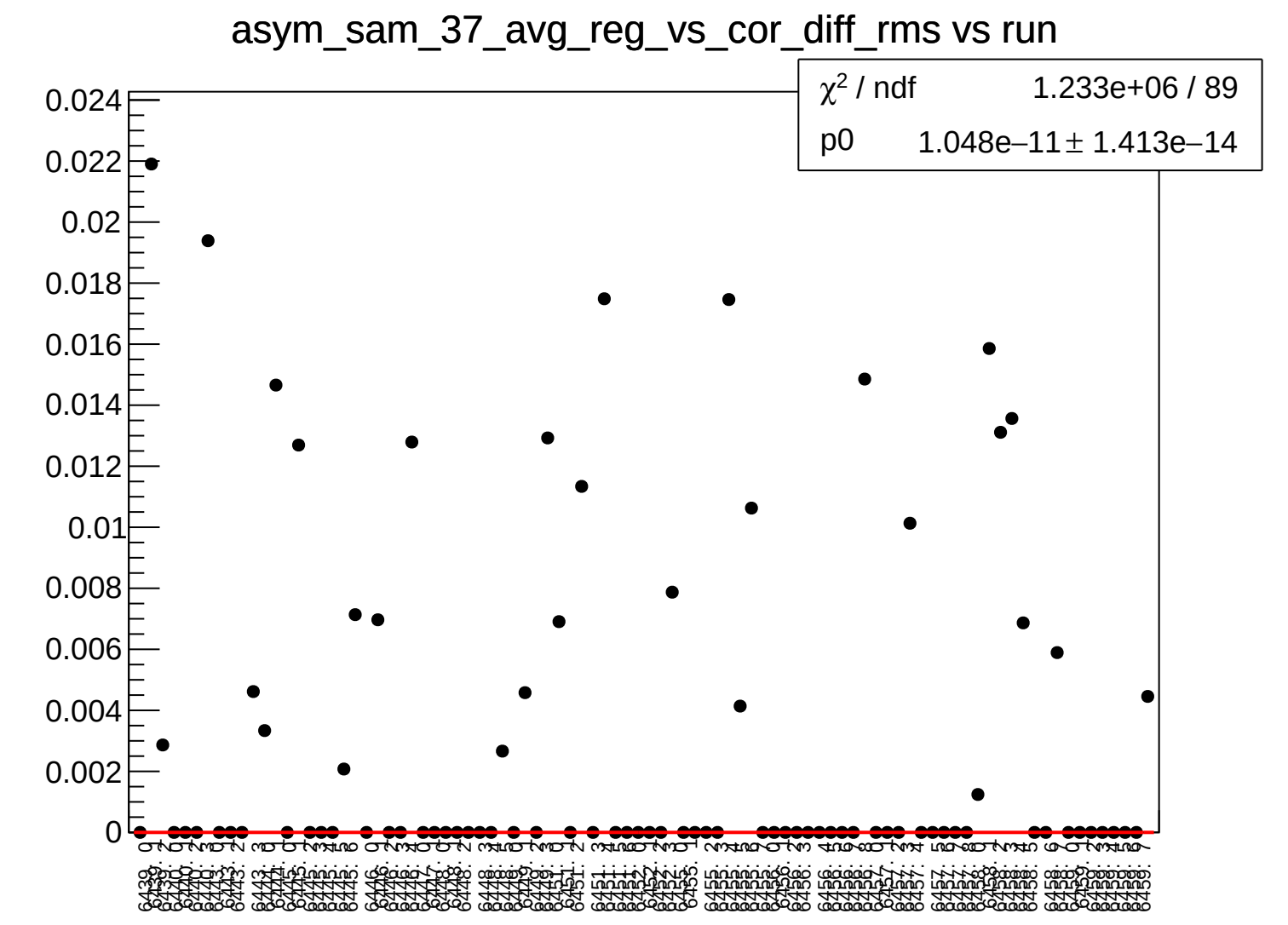

asym_sam_37_avg_mean vs run
χ² / ndf 70.59 / 89
p0 2474 ± 899.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean −889.4
Std Dev 0
2
1
0
−1
−2
−3

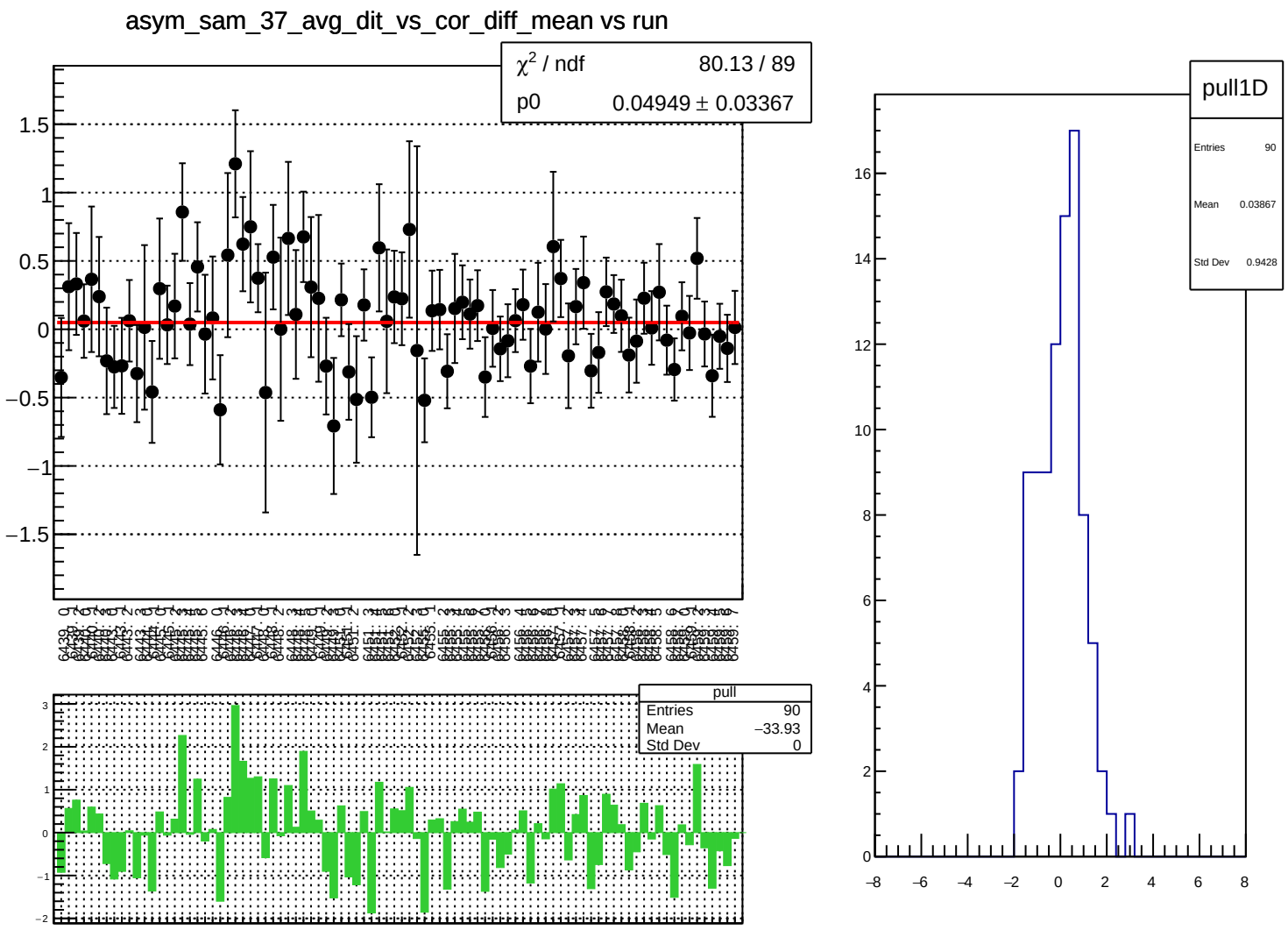

pull1D
Entries 90
Mean 0.00224
Std Dev 0.8856
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

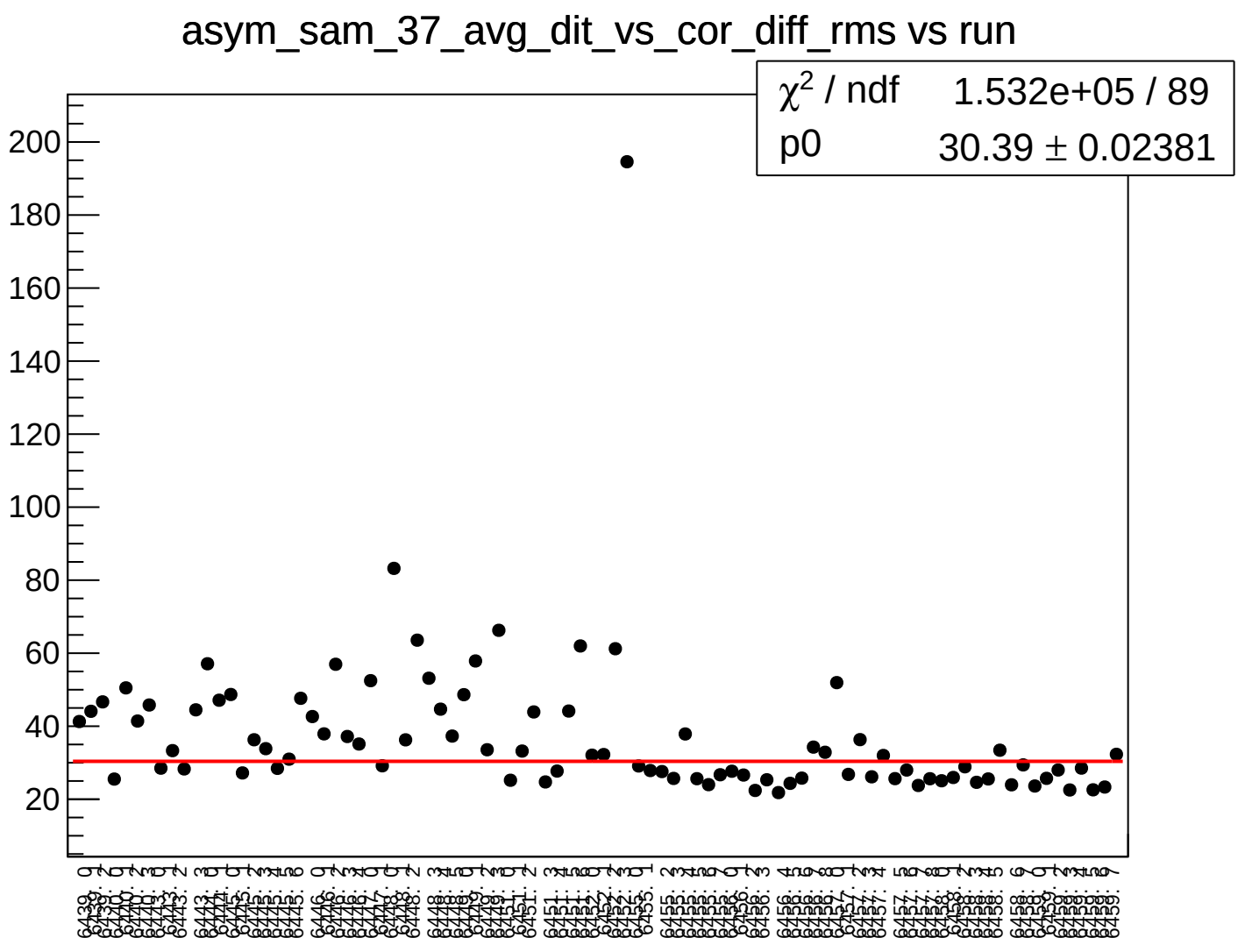

asym_sam_37_avg_rms vs run
χ^2 / ndf 1.765e+04 / 89
p0 844.8 ± 0.636
1100
1000
900
800
700

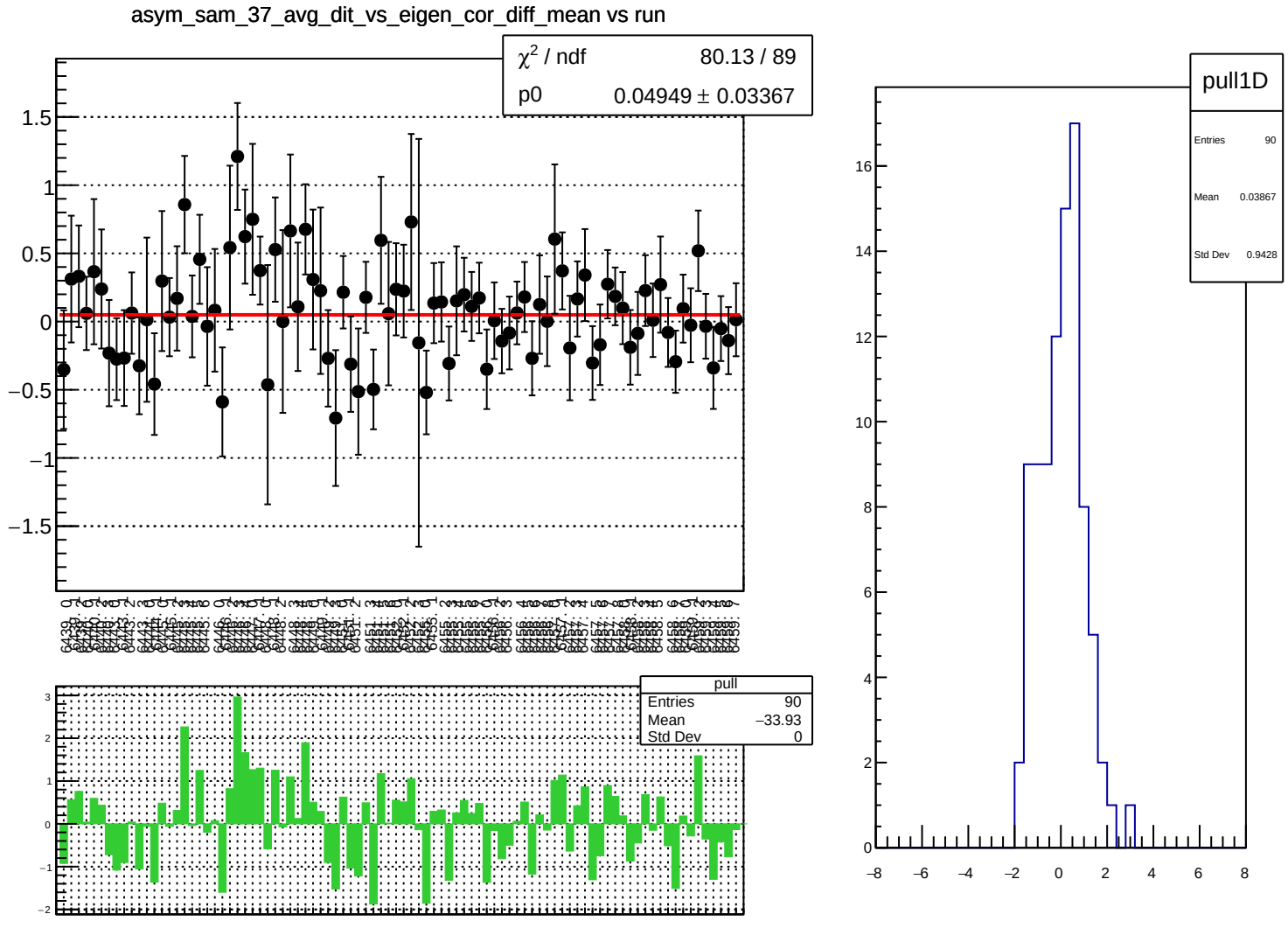

asym_sam_37_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 81.74 / 89
p0 6.396e−15 ± 1.999e−14
0.4
0.2
0
−0.2
−0.4
pull
Entries 90
Mean 250.6
Std Dev 0
2
1
0
−1
−2

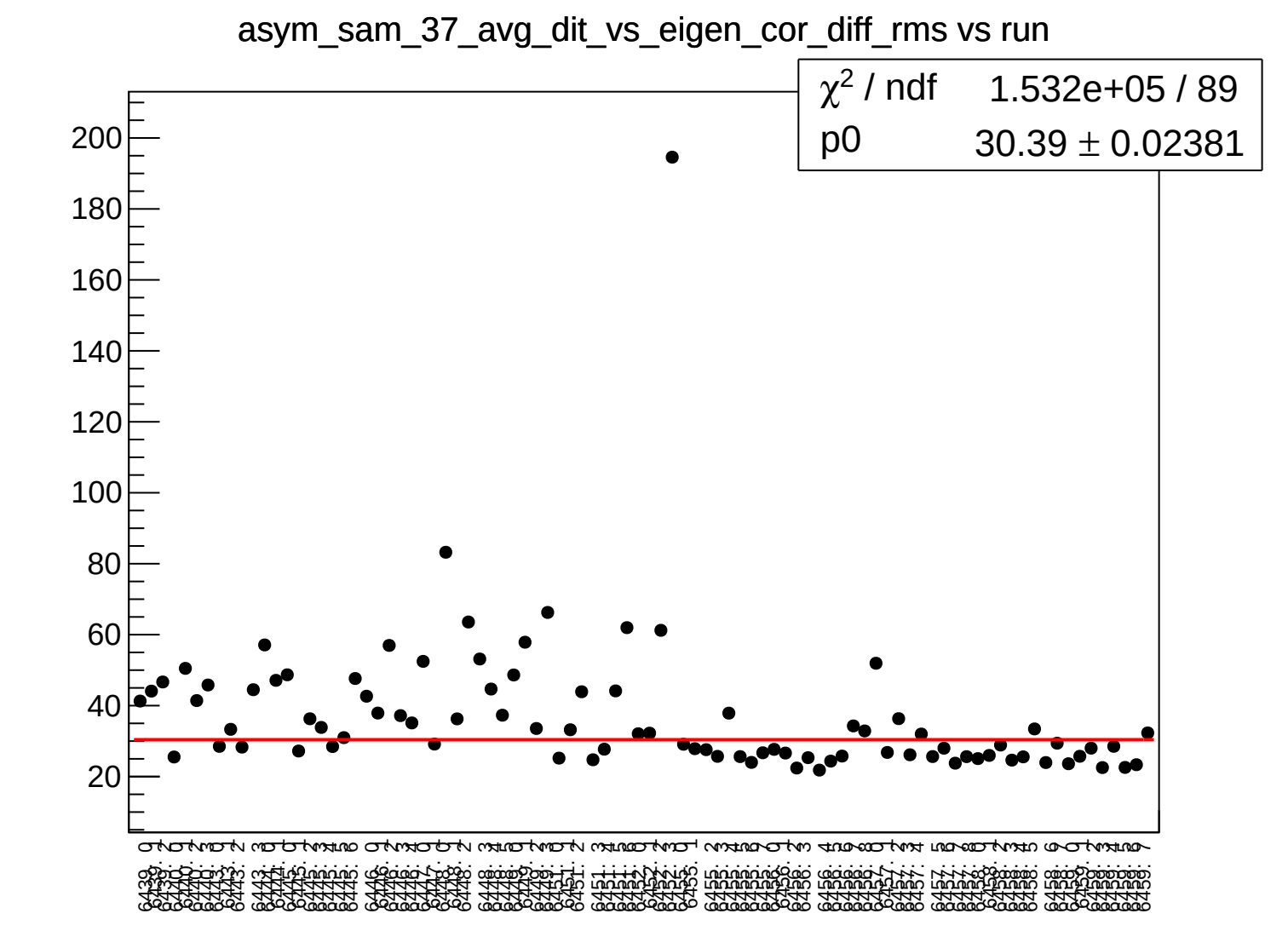

pull1D
Entries 90
Mean 0.01186
Std Dev 0.9529
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

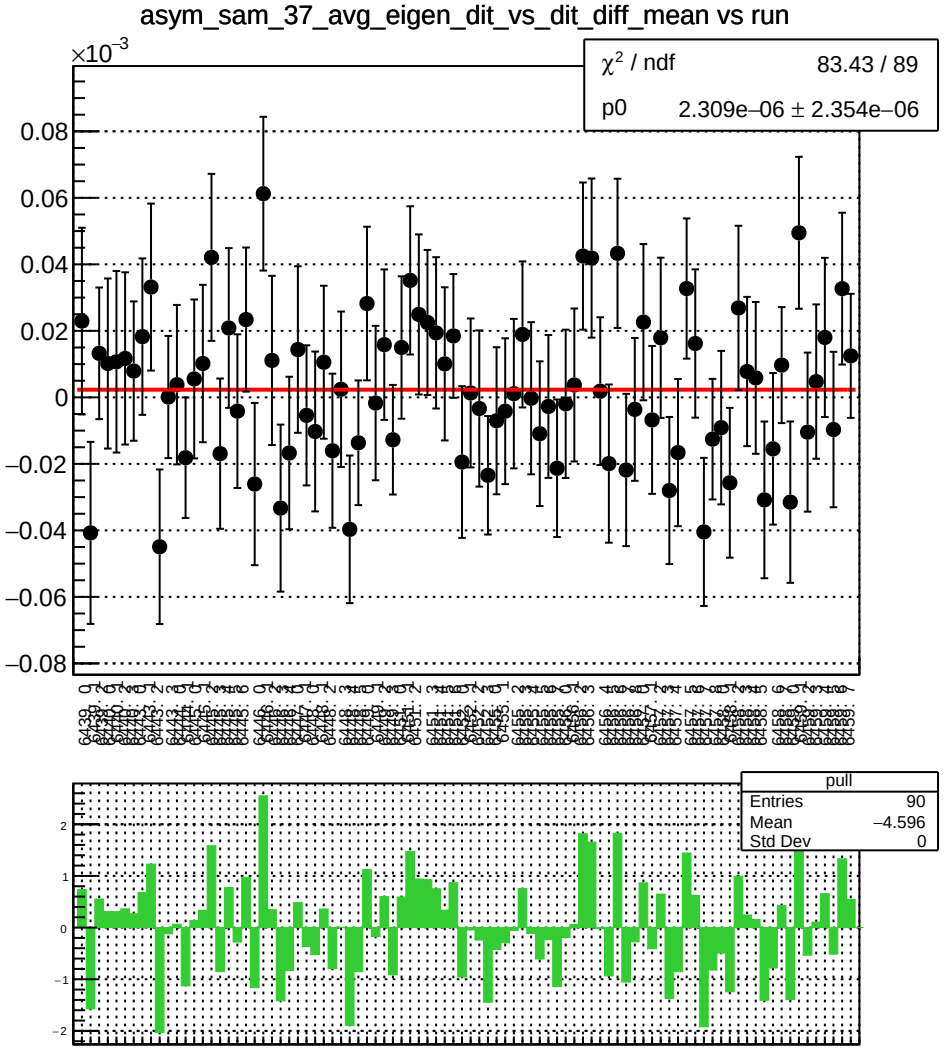

asym_sam_37_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.233e+06 / 89
p0 1.048e−11 ± 1.413e−14
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0

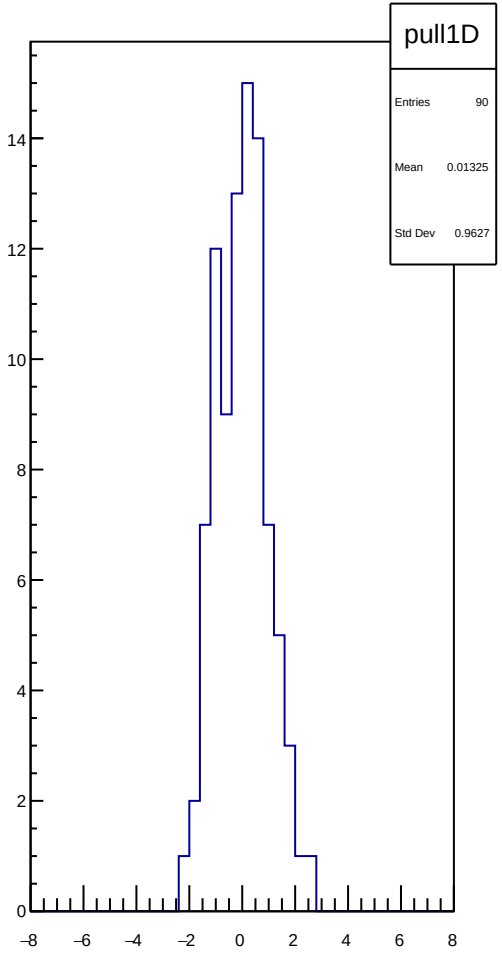

asym_sam_37_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 80.13 / 89
p0 0.04949 ± 0.03367
pull
Entries 90
Mean −33.93
Std Dev 0
pull1D
Entries 90
Mean 0.03867
Std Dev 0.9428

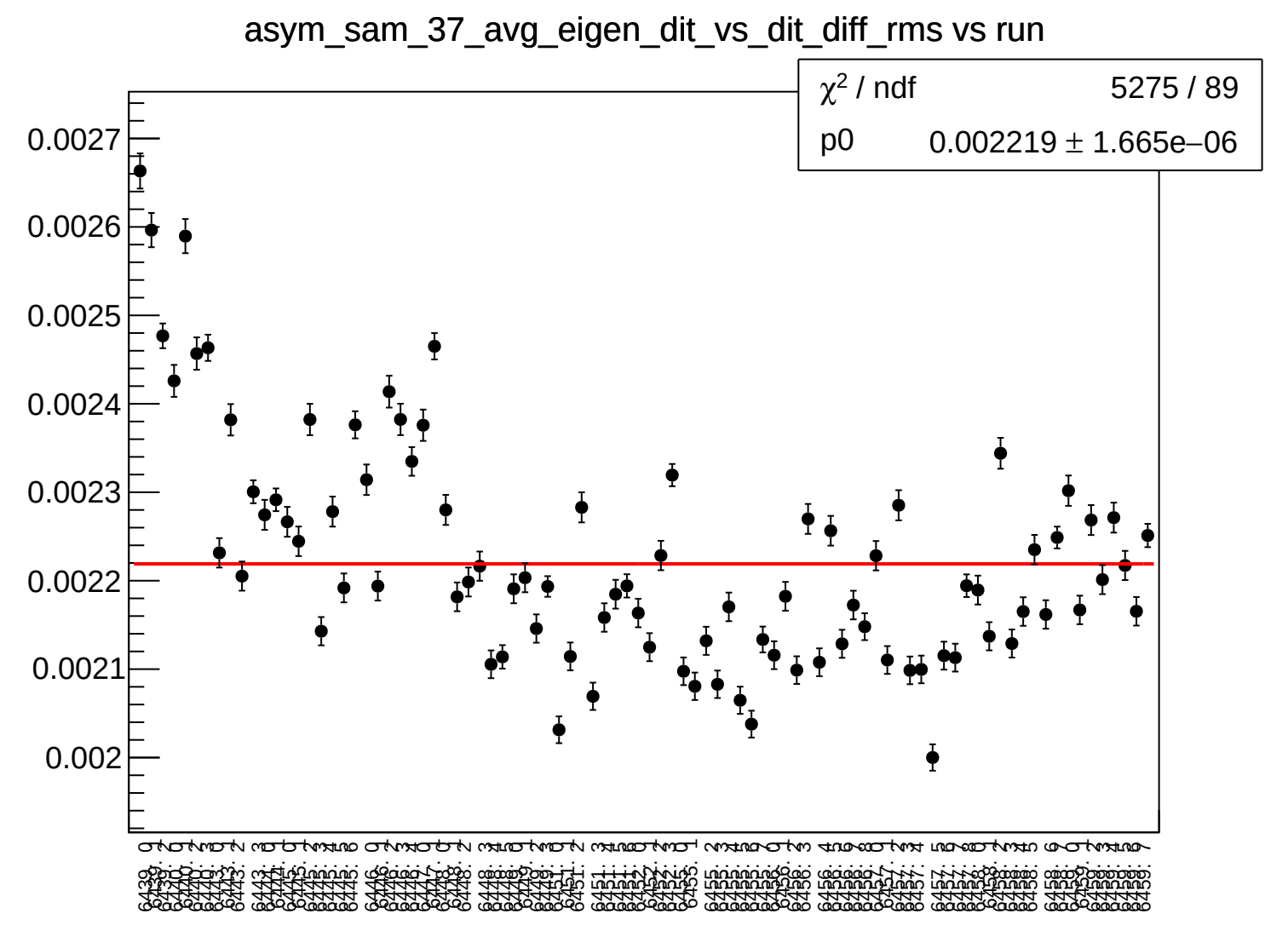

asym_sam_37_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.532e+05 / 89
p0 30.39 ± 0.02381
200
180
160
140
120
100
80
60
40
20

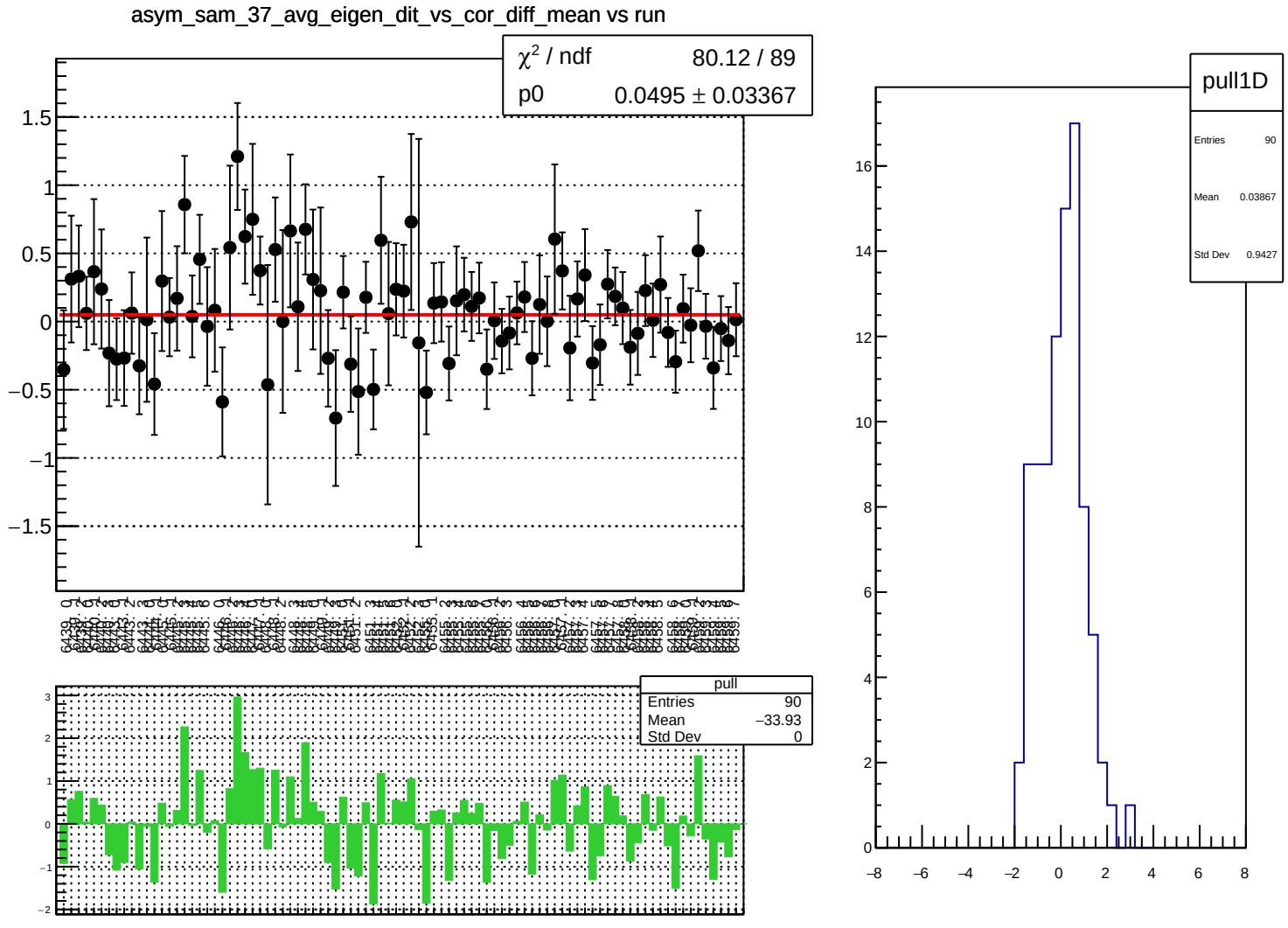

asym_sam_37_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.13 / 89
p0 0.04949 ± 0.03367
pull
Entries 90
Mean −33.93
Std Dev 0
pull1D
Entries 90
Mean 0.03867
Std Dev 0.9428

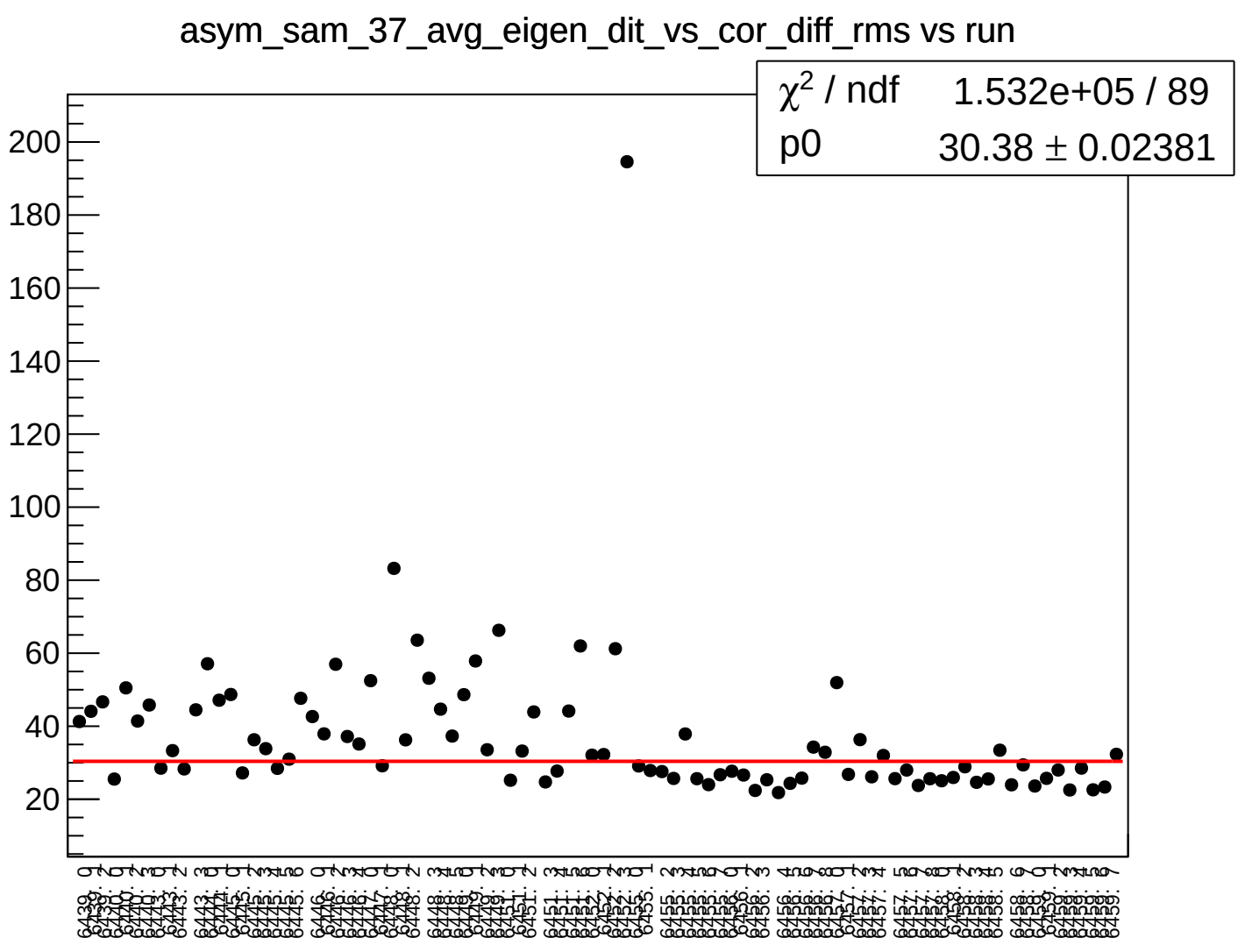

asym_sam_37_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.532e+05 / 89
p0 30.39 ± 0.02381
200
180
160
140
120
100
80
60
40
20

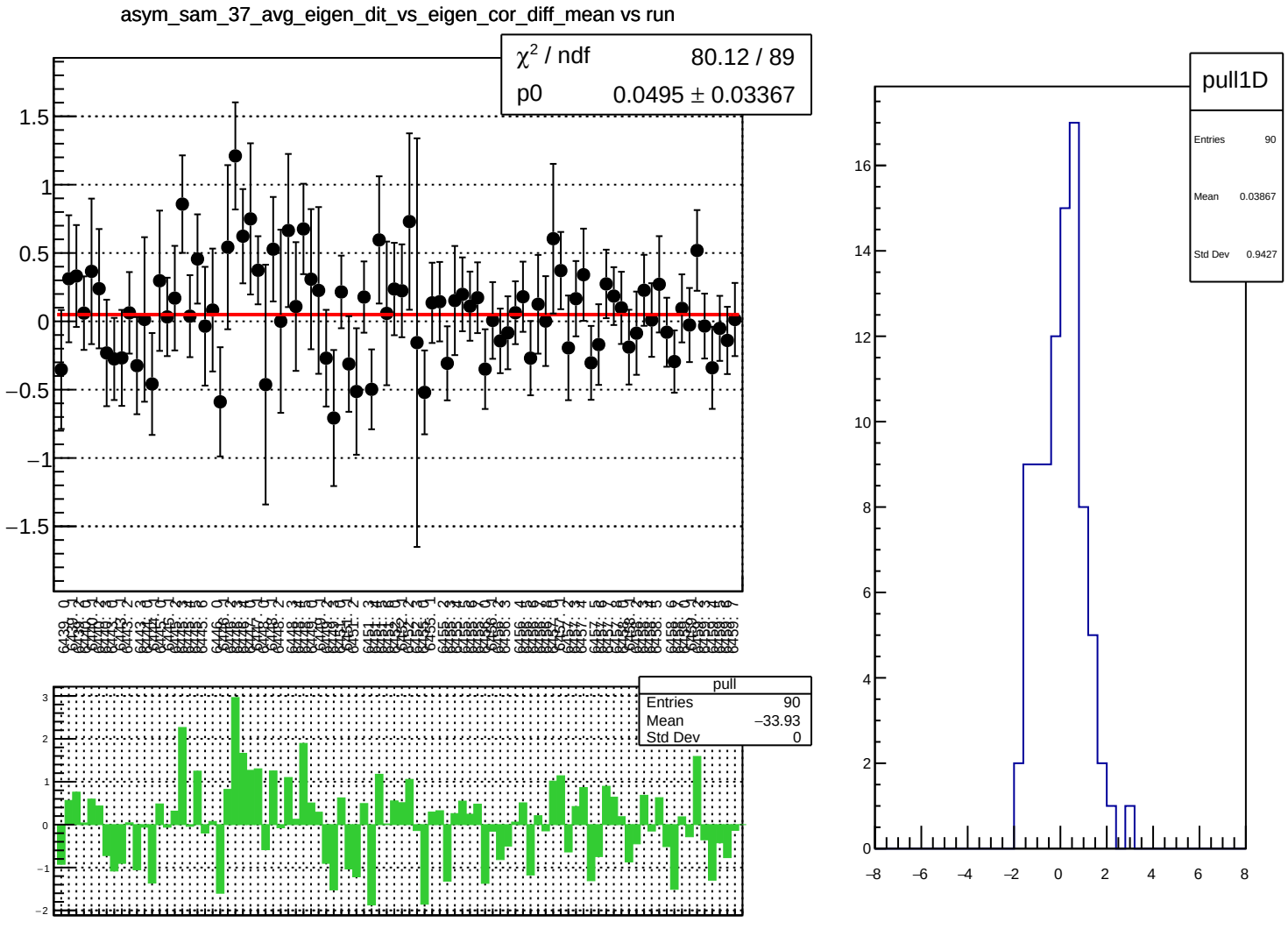

asym_sam_37_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 83.43 / 89
p0 2.309e−06 ± 2.354e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 90
Mean −4.596
Std Dev 0
2
1
0
−1
−2

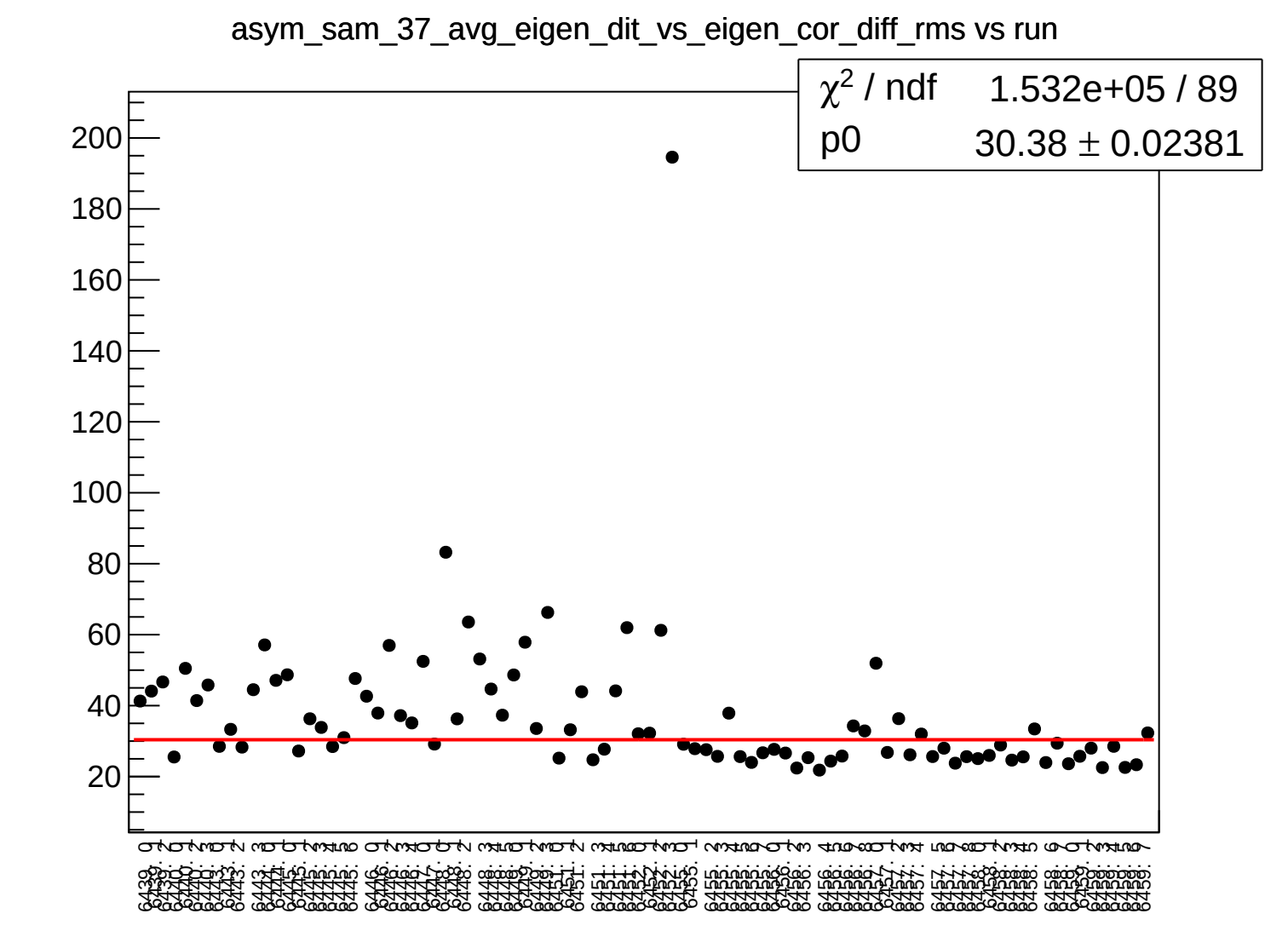

pull1D
Entries 90
Mean 0.01325
Std Dev 0.9627
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

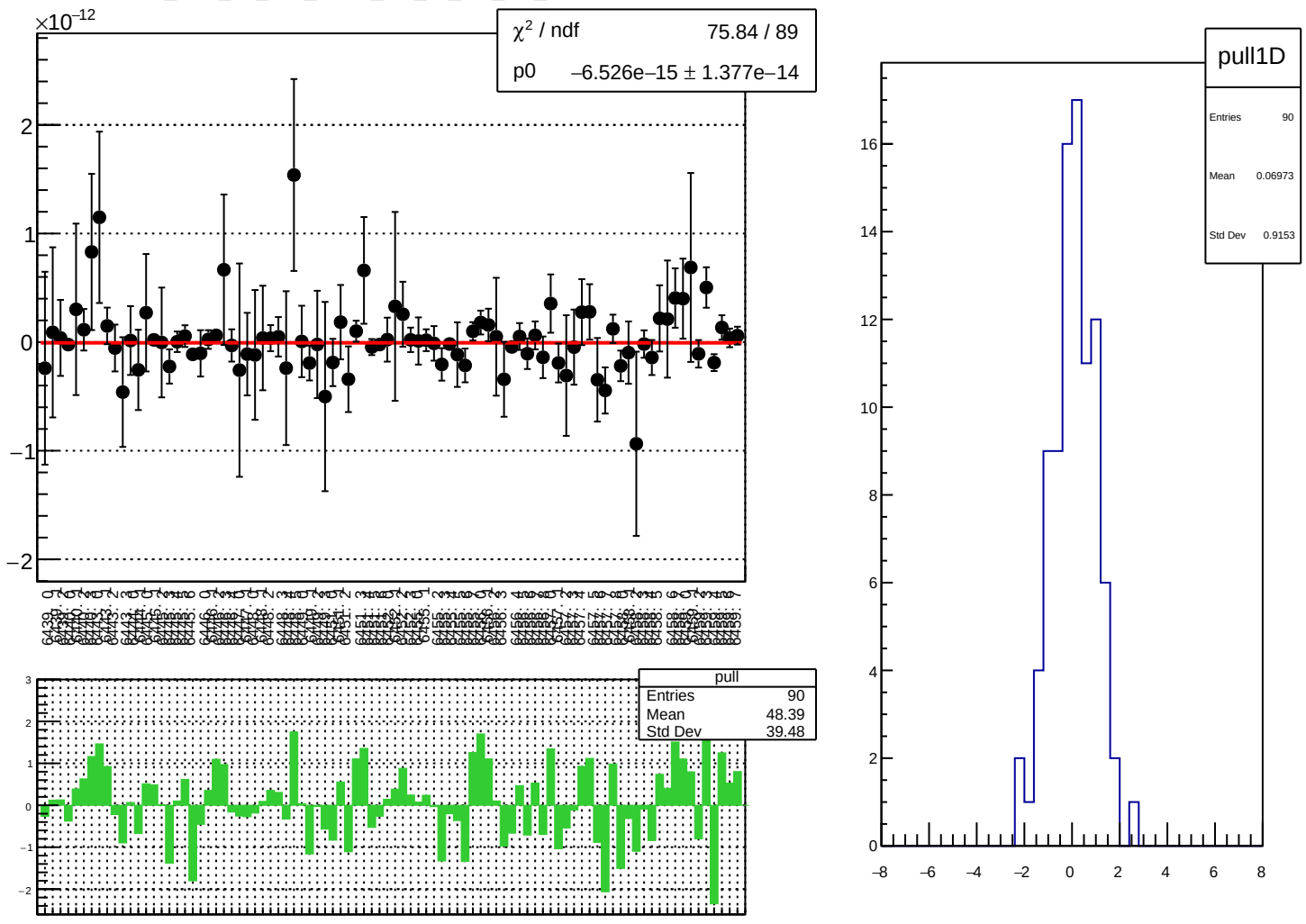

asym_sam_37_avg_eigen_dit_vs_dit_diff_rms vs run
χ2 / ndf 5275 / 89
p0 0.002219 ± 1.665e−06
0.0027
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021
0.002

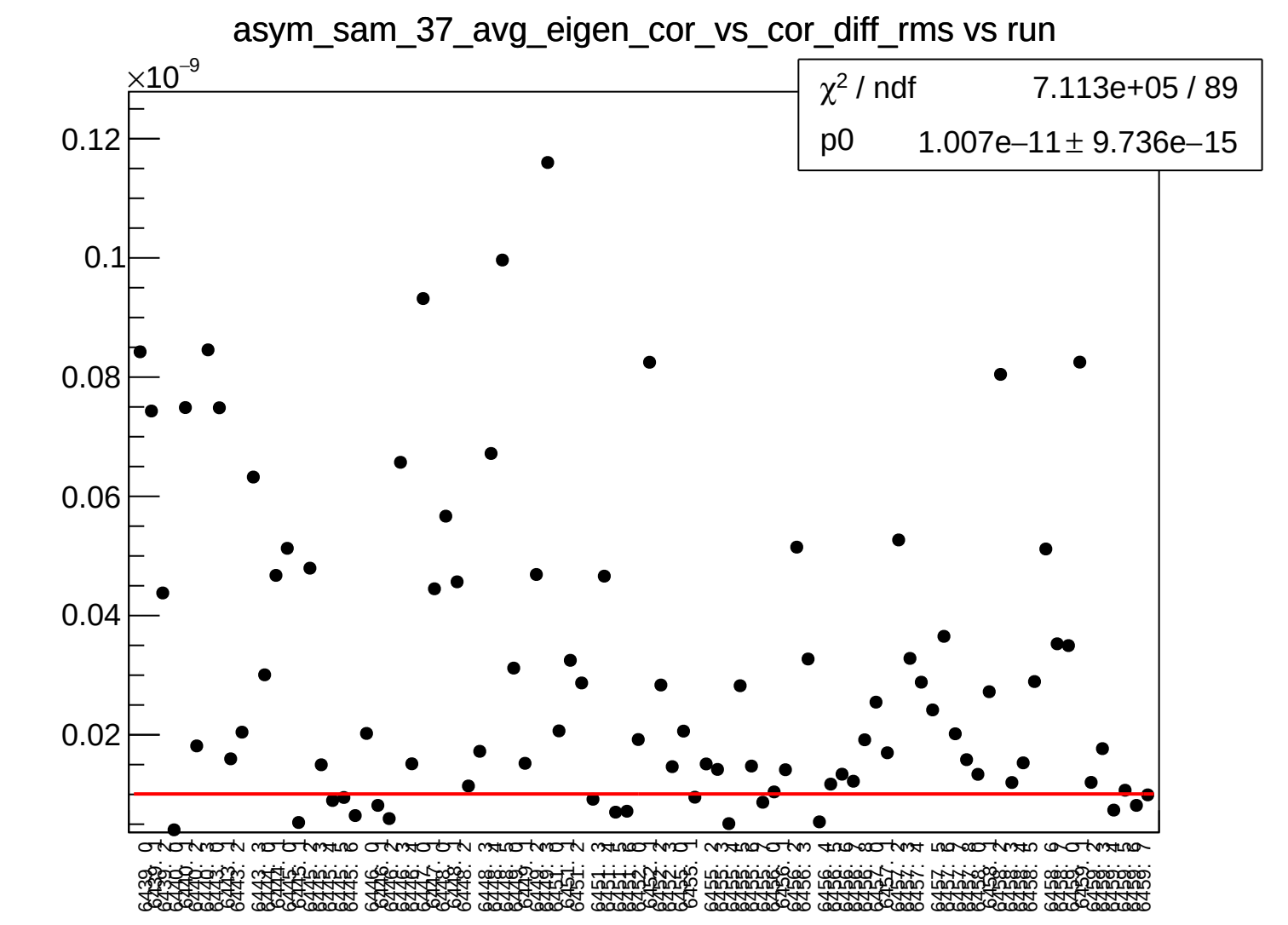

asym_sam_37_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.12 / 89
p0 0.0495 ± 0.03367
pull
Entries 90
Mean −33.93
Std Dev 0
pull1D
Entries 90
Mean 0.03867
Std Dev 0.9427

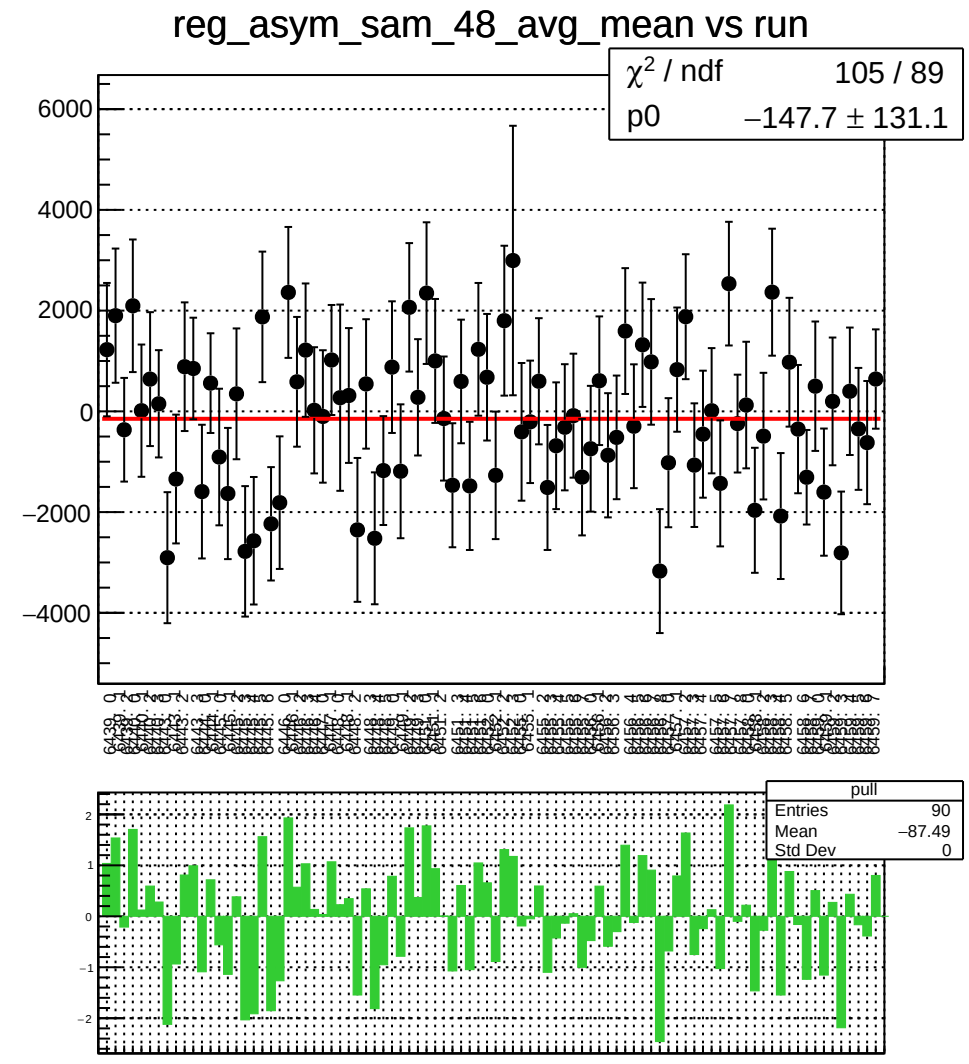

asym_sam_37_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.532e+05 / 89
p0 30.38 ± 0.02381
200
180
160
140
120
100
80
60
40
20

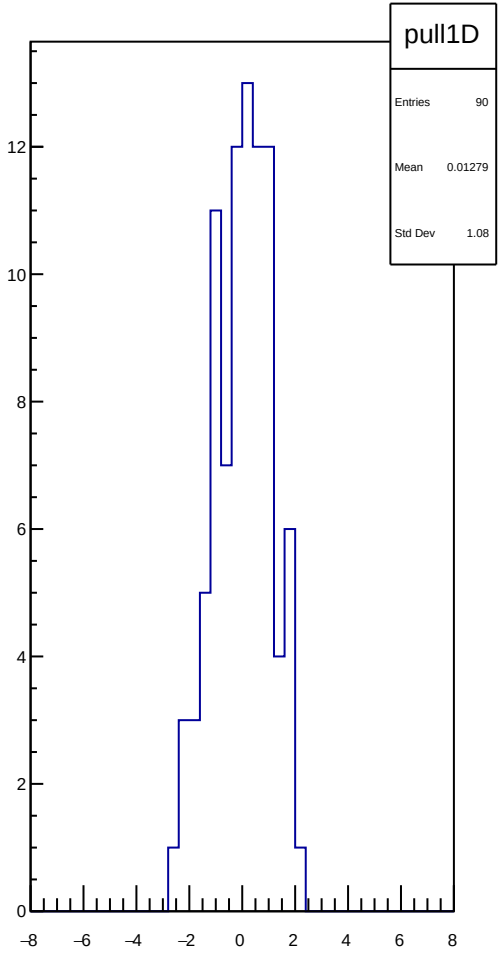

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.12 / 89
p0 0.0495 ± 0.03367
pull
Entries 90
Mean −33.93
Std Dev 0
pull1D
Entries 90
Mean 0.03867
Std Dev 0.9427

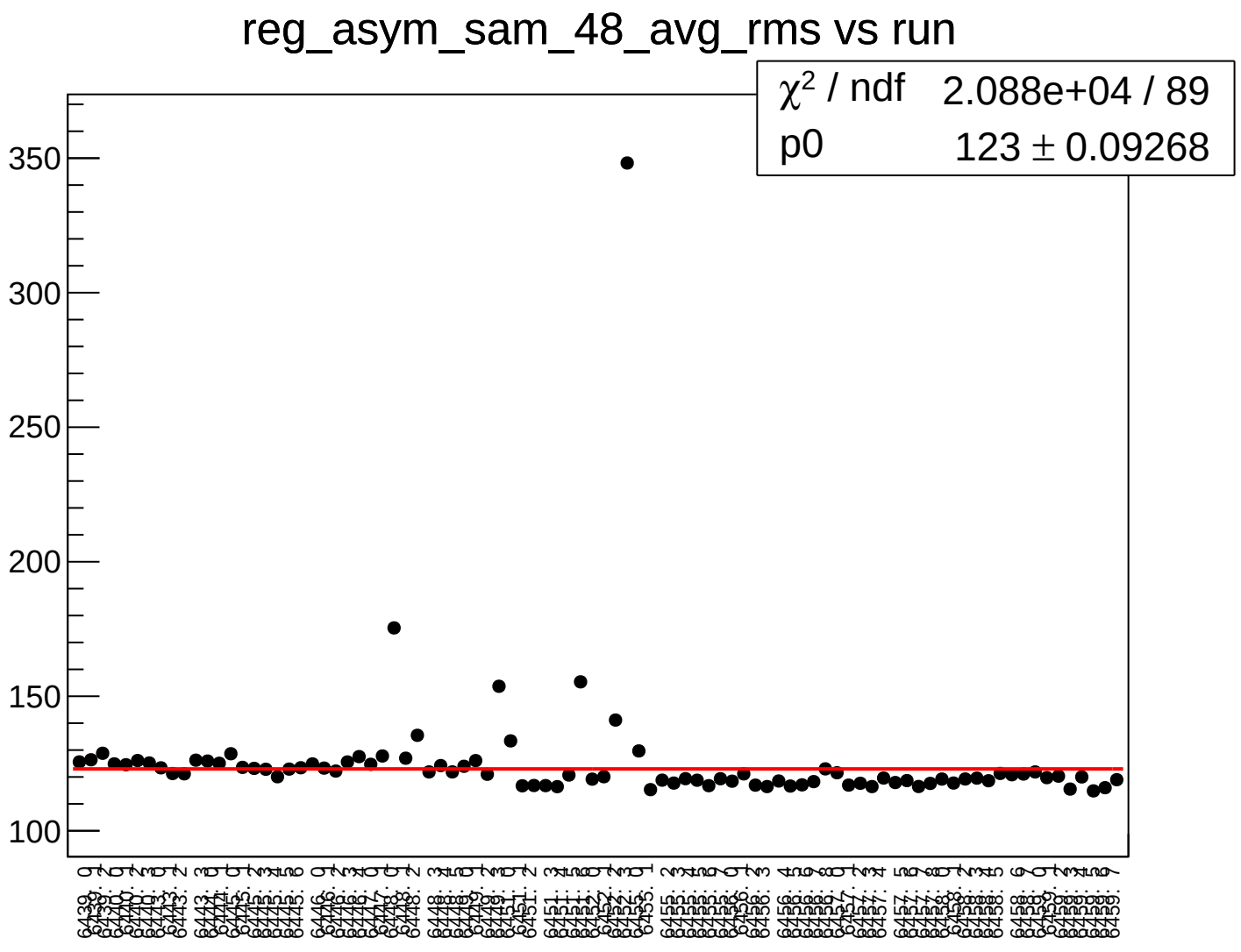

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.532e+05 / 89
p0 30.38 ± 0.02381
200
180
160
140
120
100
80
60
40
20

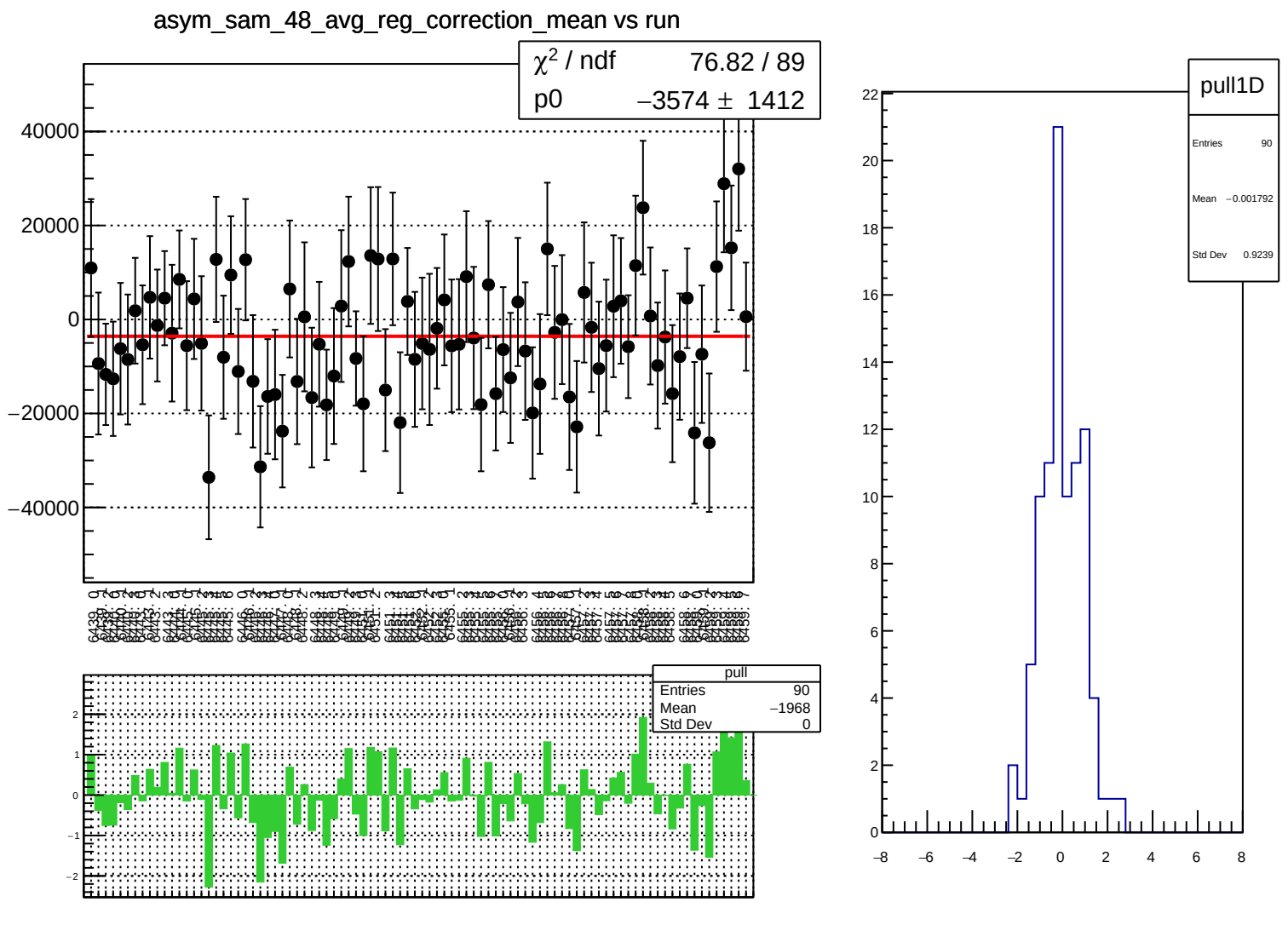

asym_sam_37_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.84 / 89
p0 −6.526e−15 ± 1.377e−14
pull
Entries 90
Mean 48.39
Std Dev 39.48
pull1D
Entries 90
Mean 0.06973
Std Dev 0.9153

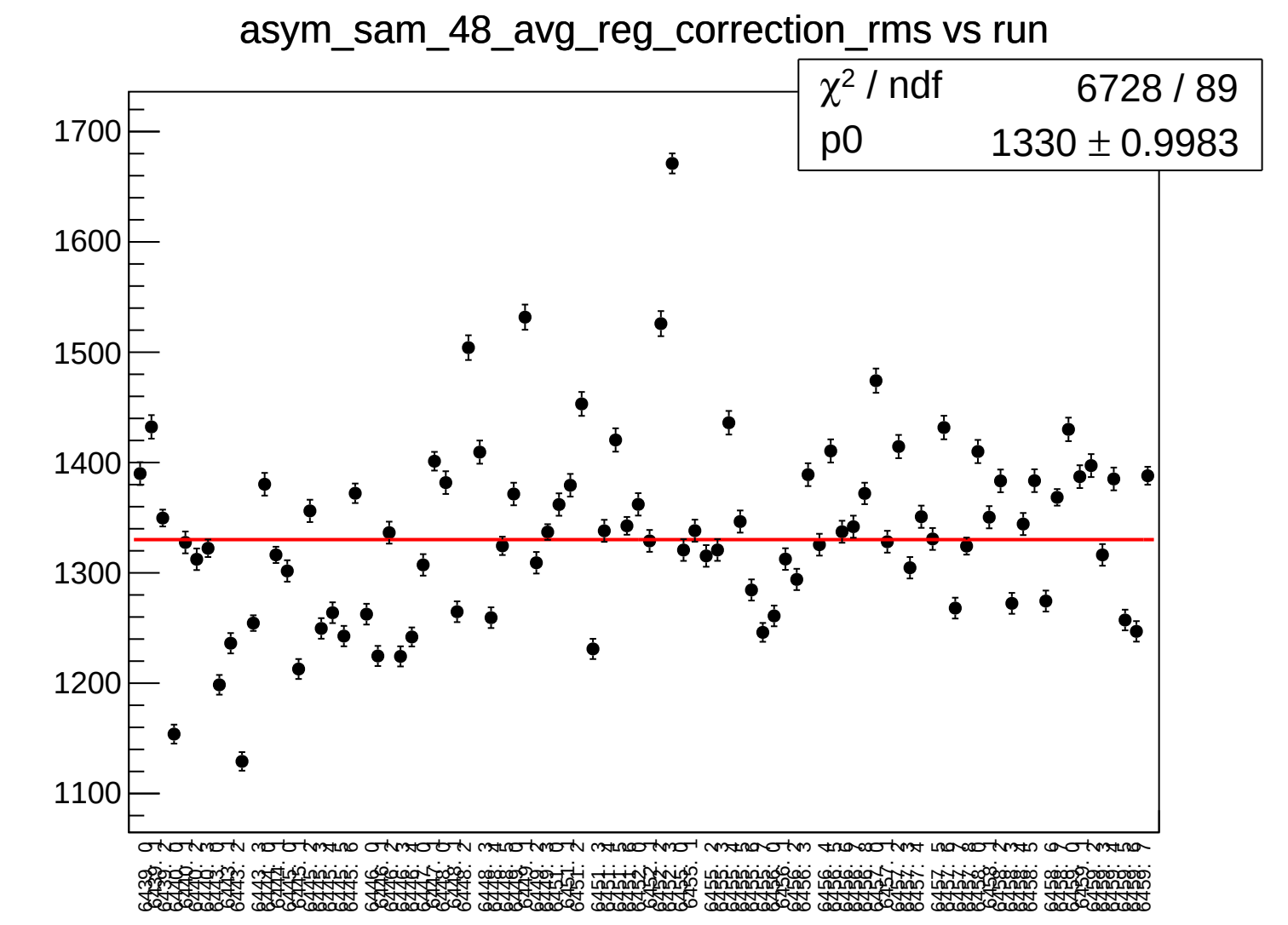

asym_sam_37_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.113e+05 / 89
p0 1.007e−11 ± 9.736e−15
0.12
0.1
0.08
0.06
0.04
0.02

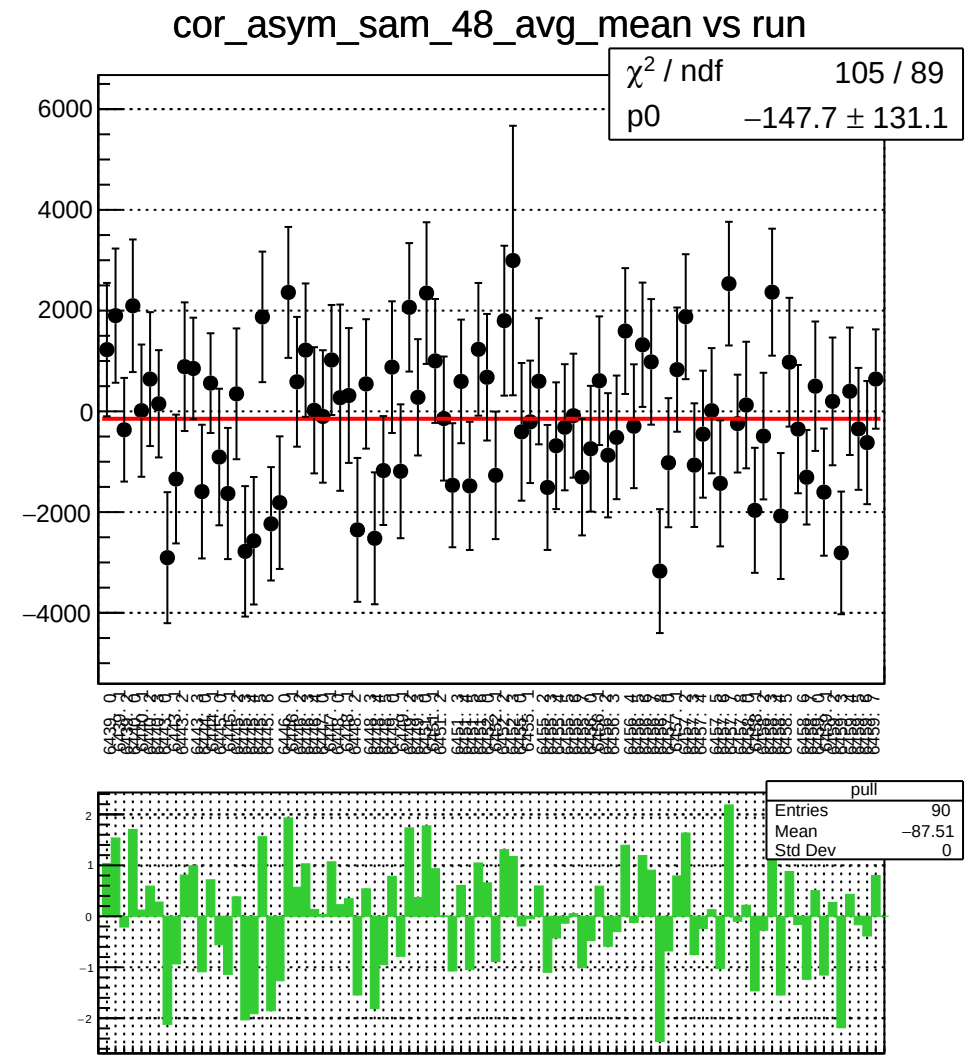

reg_asym_sam_48_avg_mean vs run
χ² / ndf 105 / 89
p0 −147.7 ± 131.1
6000
4000
2000
0
−2000
−4000
pull
Entries 90
Mean −87.49
Std Dev 0
2
1
0
−1
−2

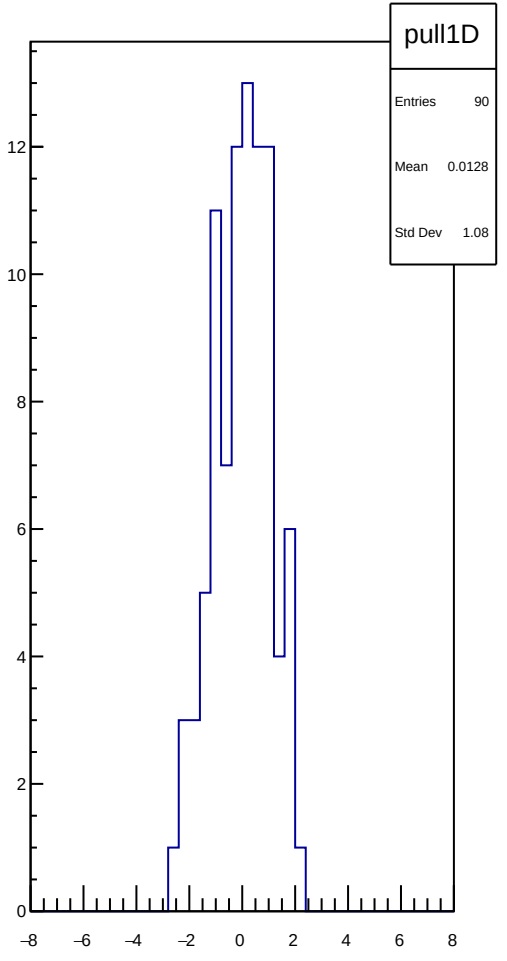

pull1D
Entries 90
Mean 0.01279
Std Dev 1.08
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

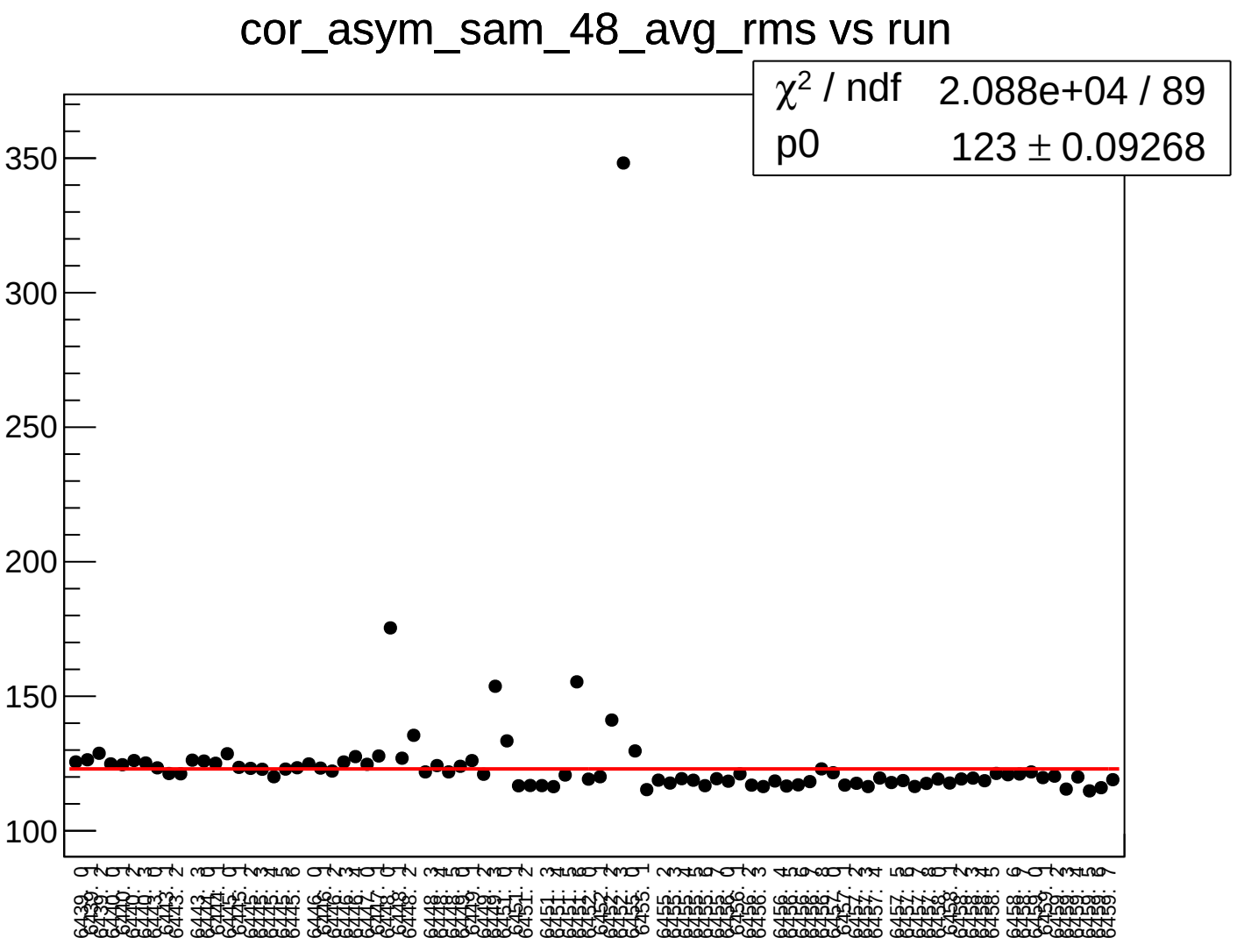

reg_asym_sam_48_avg_rms vs run
χ^2 / ndf 2.088e+04 / 89
p0 123 ± 0.09268
350
300
250
200
150
100

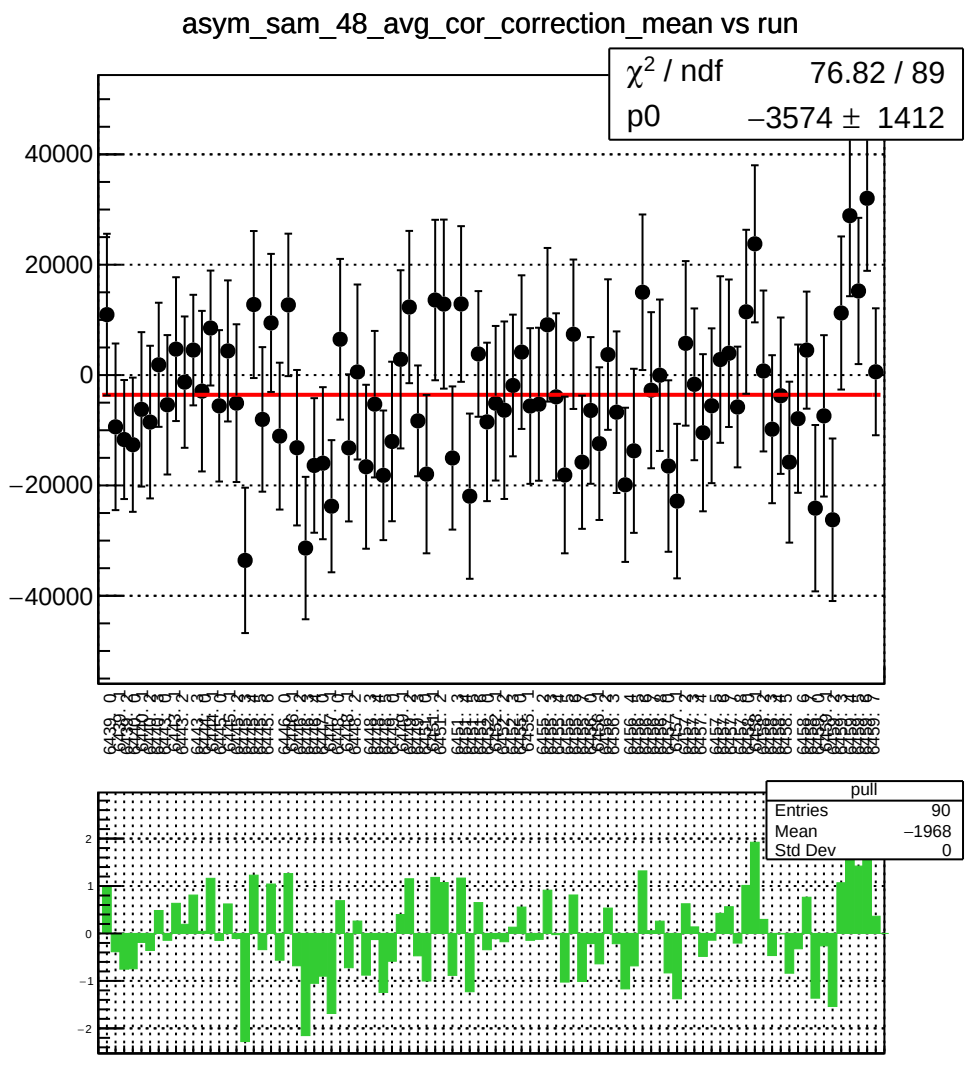

asym_sam_48_avg_reg_correction_mean vs run
χ² / ndf 76.82 / 89
p0 −3574 ± 1412
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −1968
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.001792
Std Dev 0.9239
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

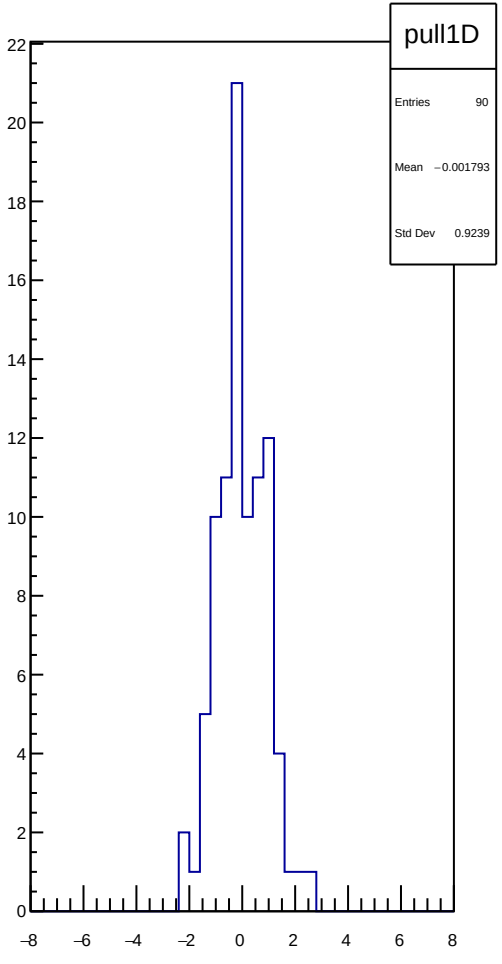

asym_sam_48_avg_reg_correction_rms vs run
χ² / ndf 6728 / 89
p0 1330 ± 0.9983
1700
1600
1500
1400
1300
1200
1100

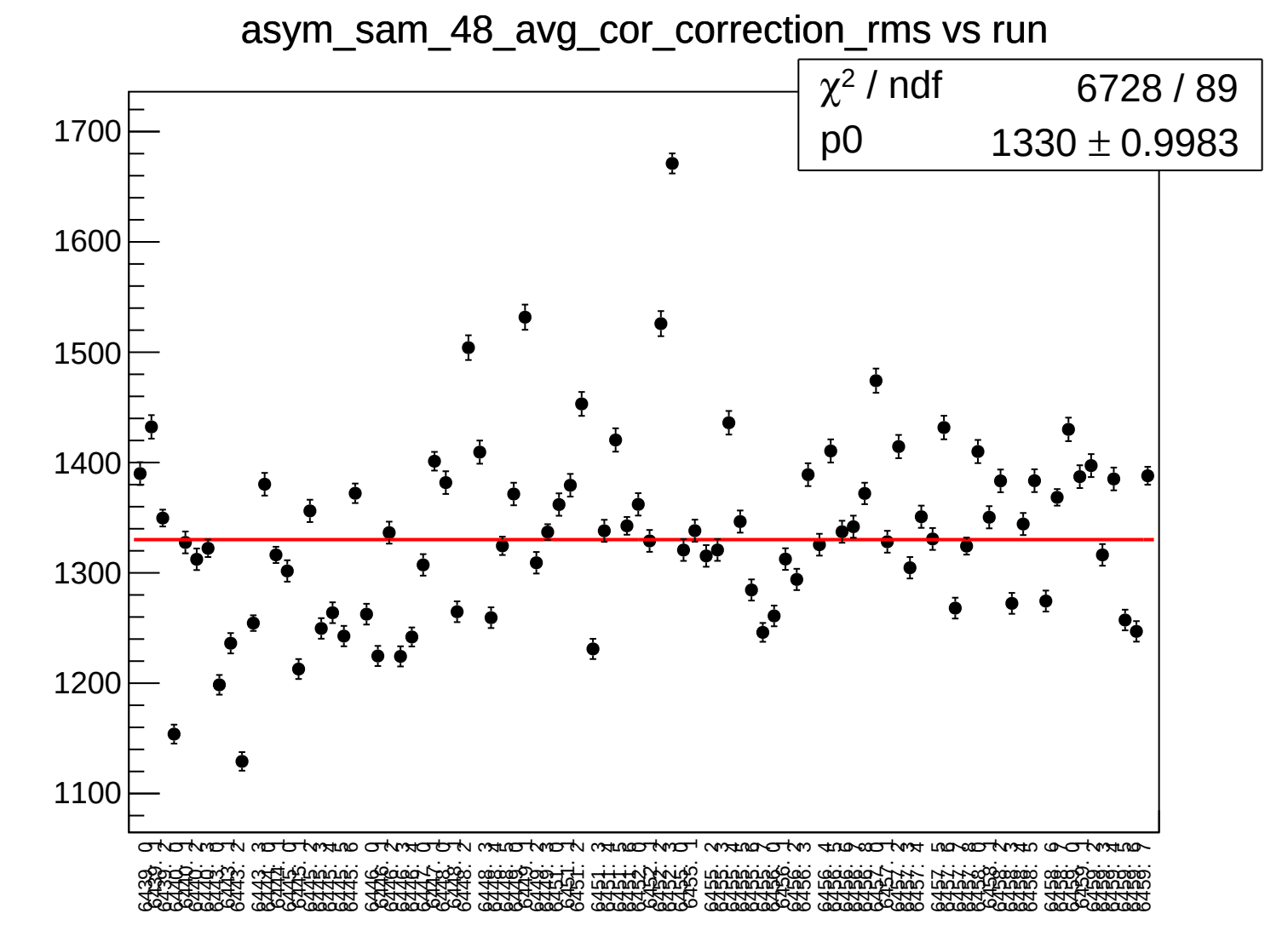

cor_asym_sam_48_avg_mean vs run
χ² / ndf 105 / 89
p0 −147.7 ± 131.1
6000
4000
2000
0
−2000
−4000
pull
Entries 90
Mean −87.51
Std Dev 0
2
1
0
−1
−2

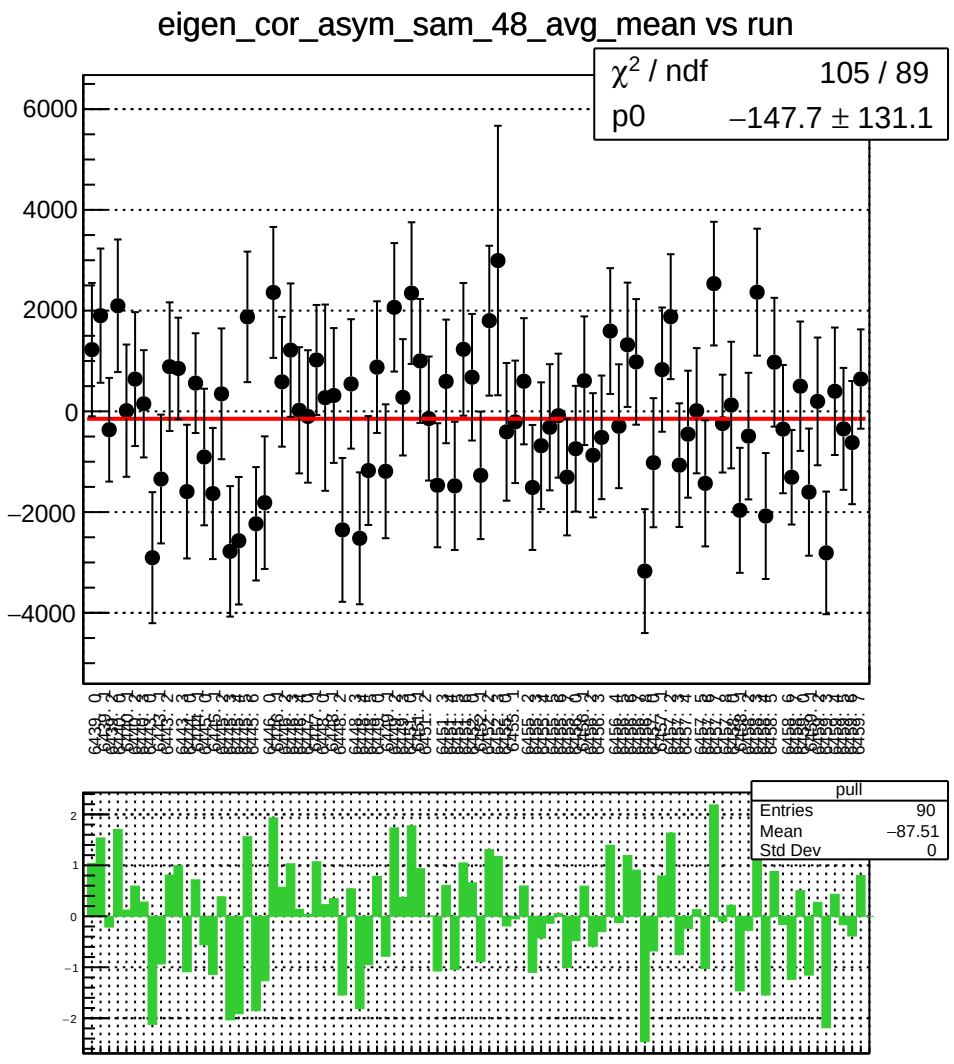

pull1D
Entries 90
Mean 0.0128
Std Dev 1.08
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

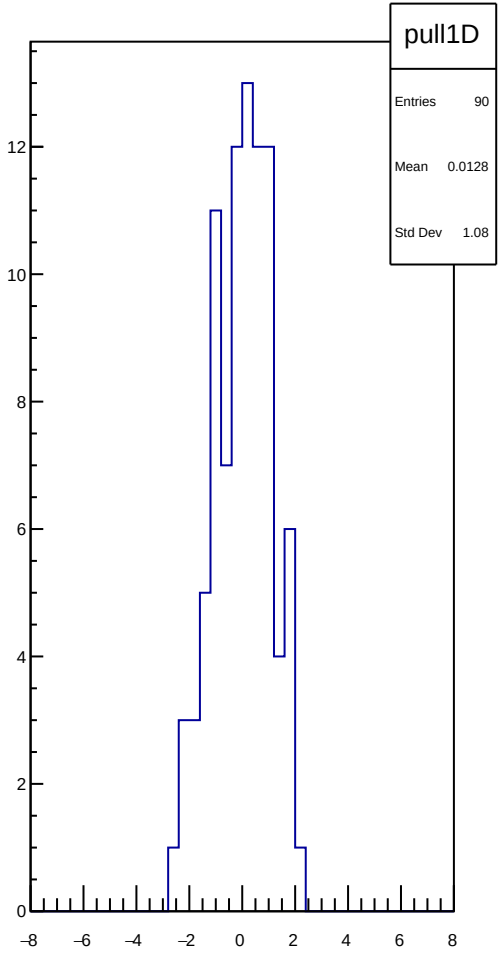

cor_asym_sam_48_avg_rms vs run
χ² / ndf 2.088e+04 / 89
p0 123 ± 0.09268
350
300
250
200
150
100

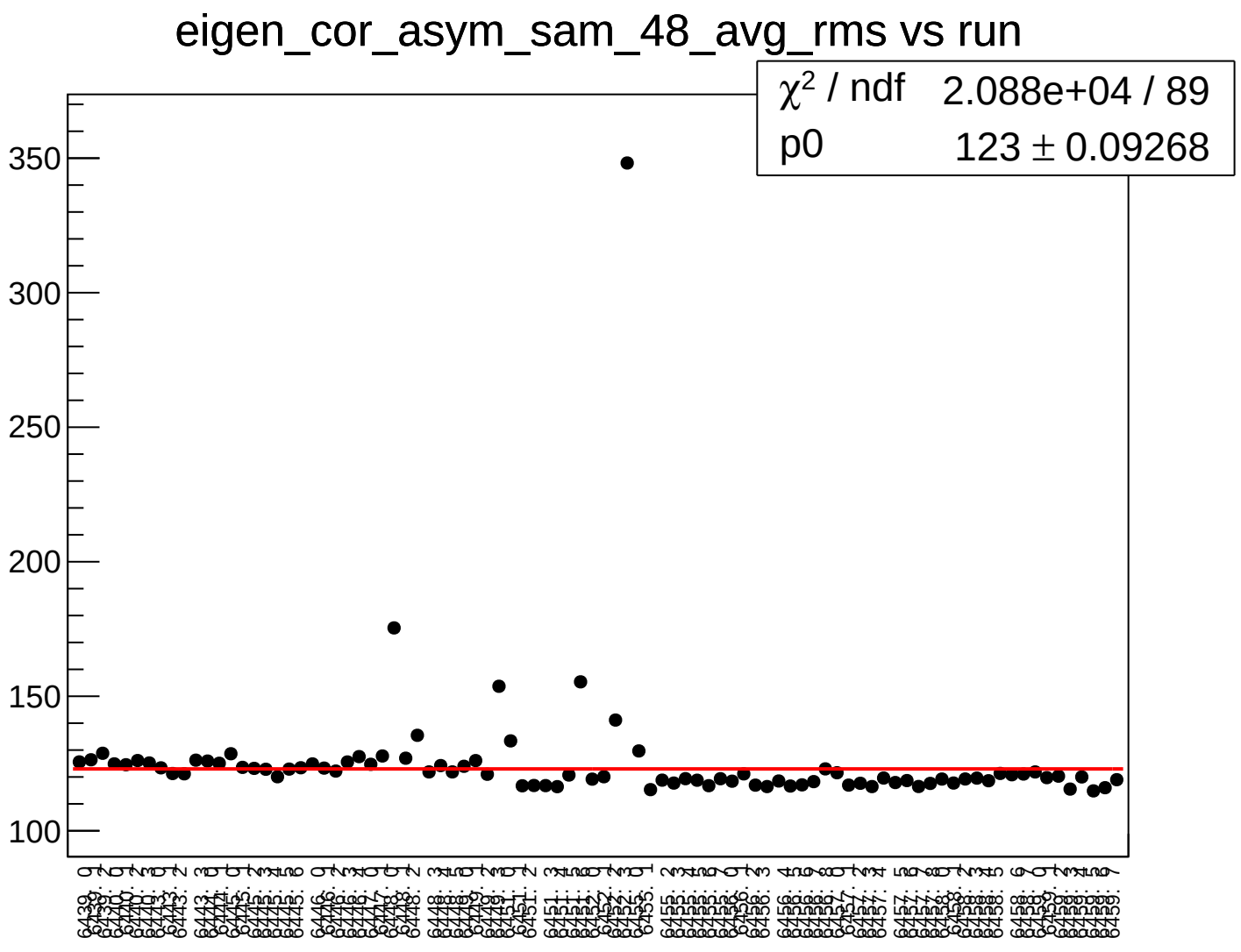

asym_sam_48_avg_cor_correction_mean vs run
χ² / ndf 76.82 / 89
p0 −3574 ± 1412
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −1968
Std Dev 0
2
1
0
−1
−2

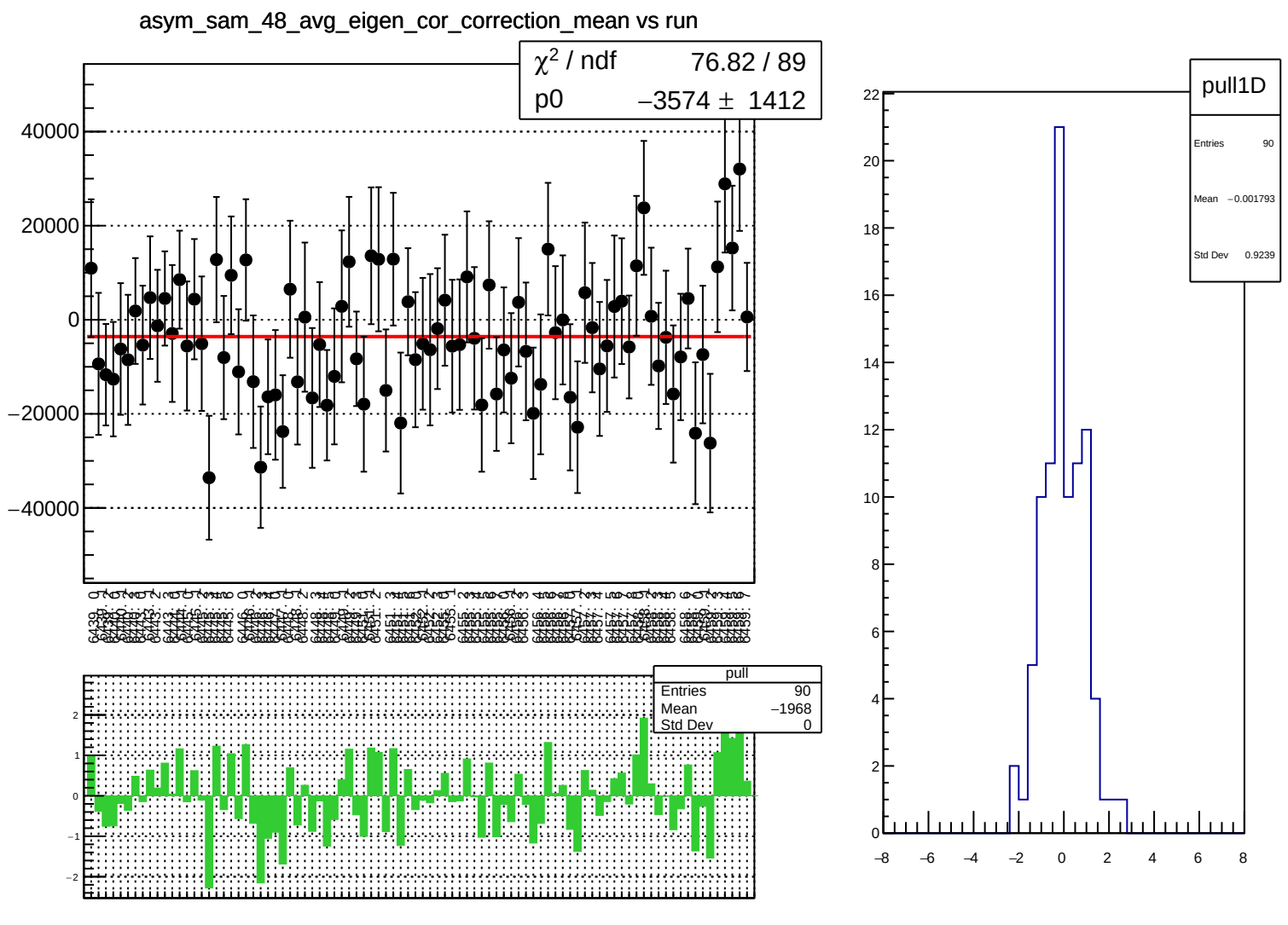

pull1D
Entries 90
Mean −0.001793
Std Dev 0.9239
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_48_avg_cor_correction_rms vs run
χ² / ndf 6728 / 89
p0 1330 ± 0.9983
1700
1600
1500
1400
1300
1200
1100


eigen_cor_asym_sam_48_avg_mean vs run
χ² / ndf 105 / 89
p0 −147.7 ± 131.1
6000
4000
2000
0
−2000
−4000
pull
Entries 90
Mean −87.51
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 90
Mean 0.0128
Std Dev 1.08
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 2.088e+04 / 89
p0 123 ± 0.09268
350
300
250
200
150
100


asym_sam_48_avg_eigen_cor_correction_mean vs run
χ² / ndf 76.82 / 89
p0 −3574 ± 1412
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −1968
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.001793
Std Dev 0.9239
22
20
18
16
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10
8
6
4
2
0
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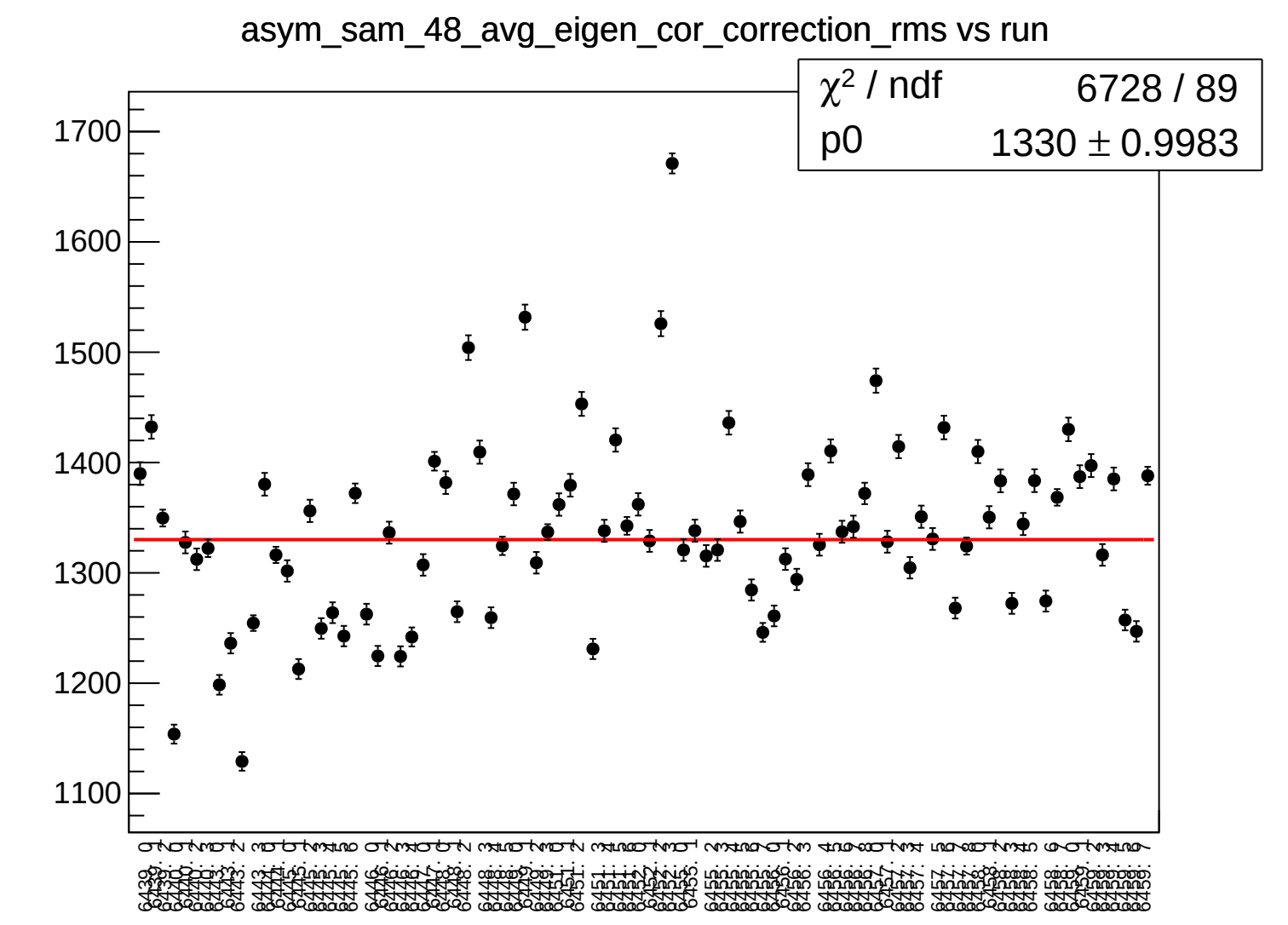
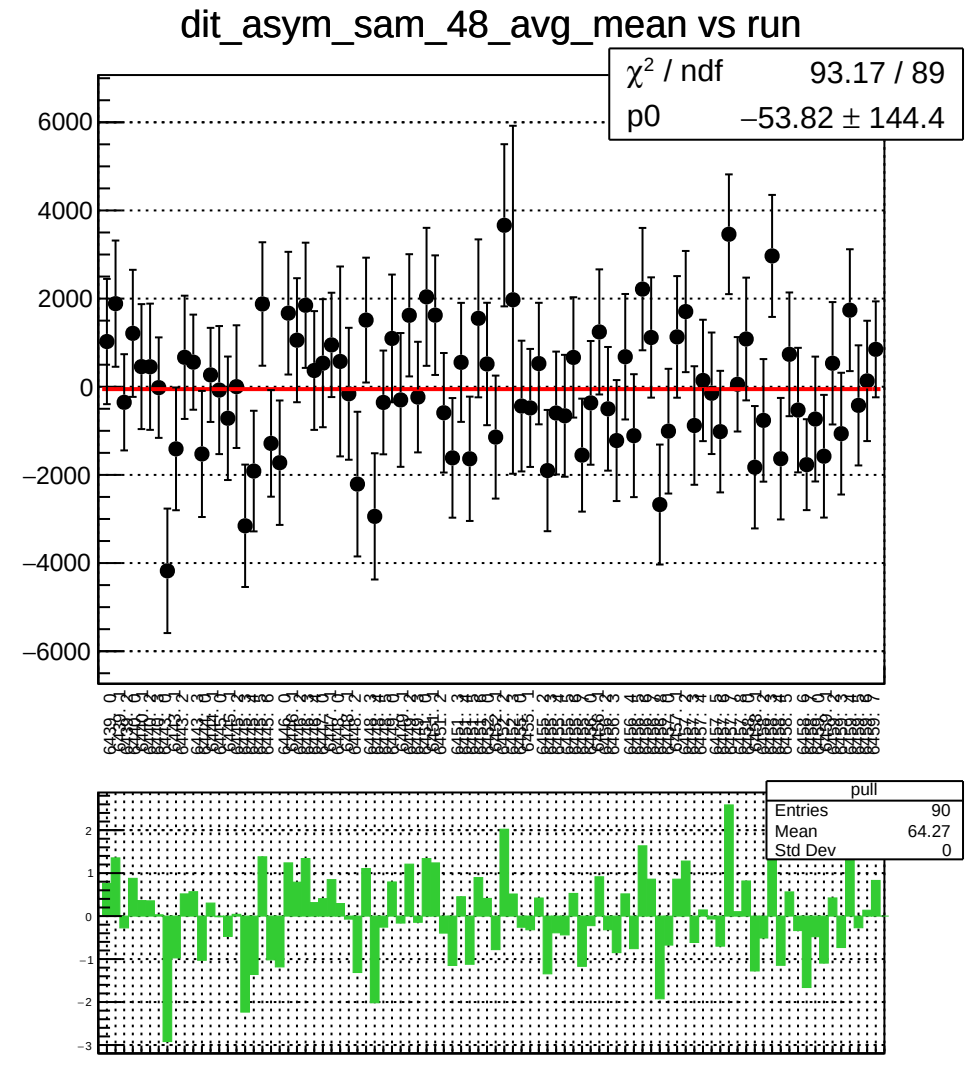
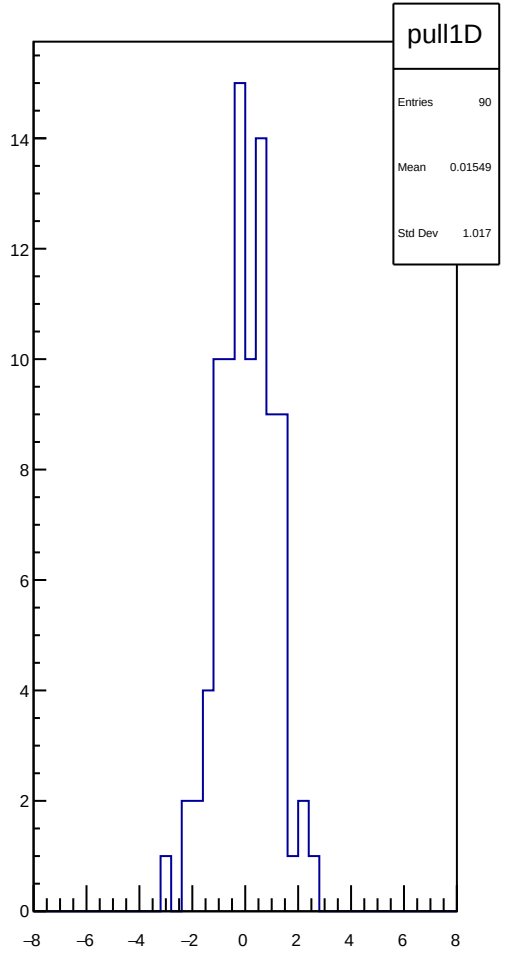
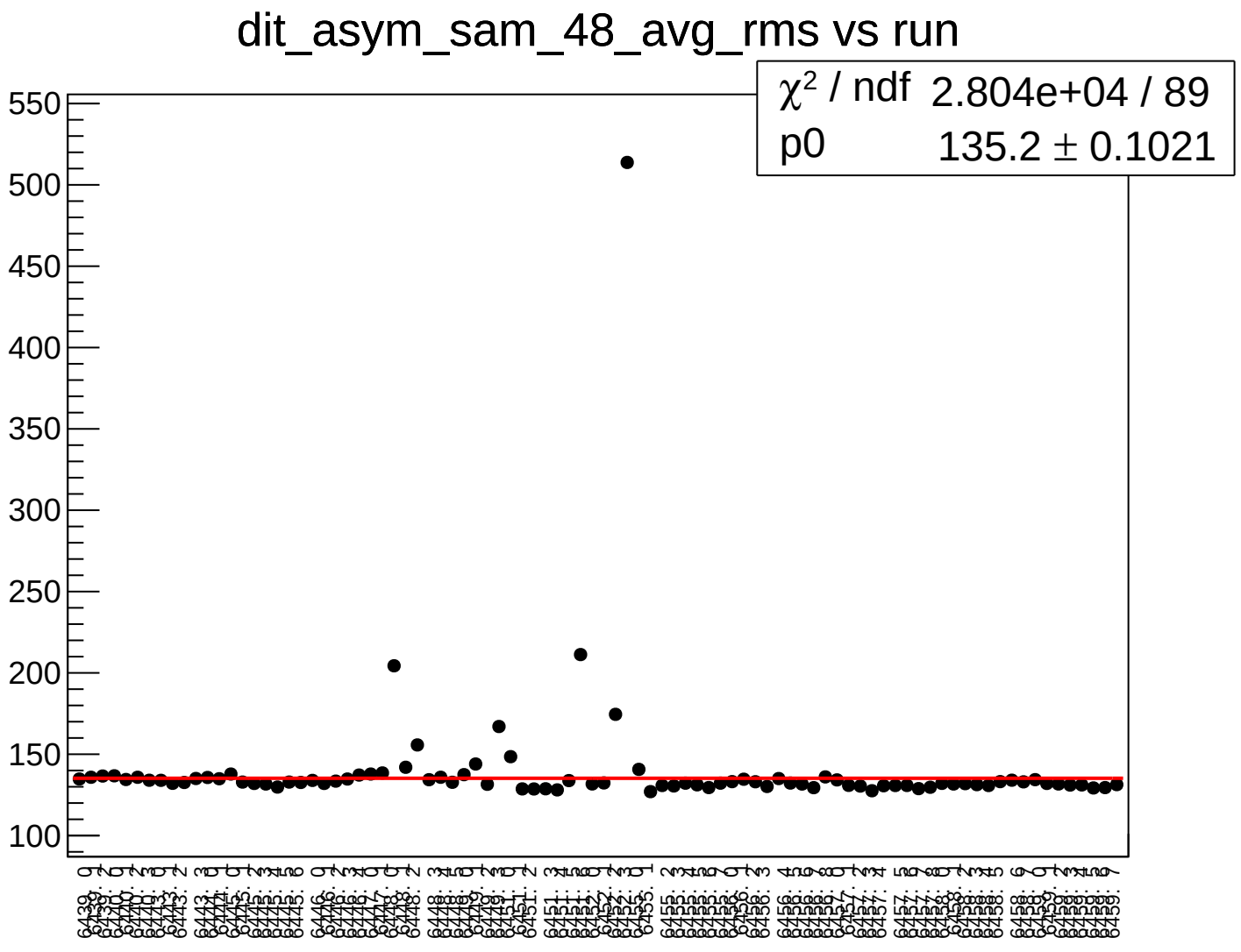
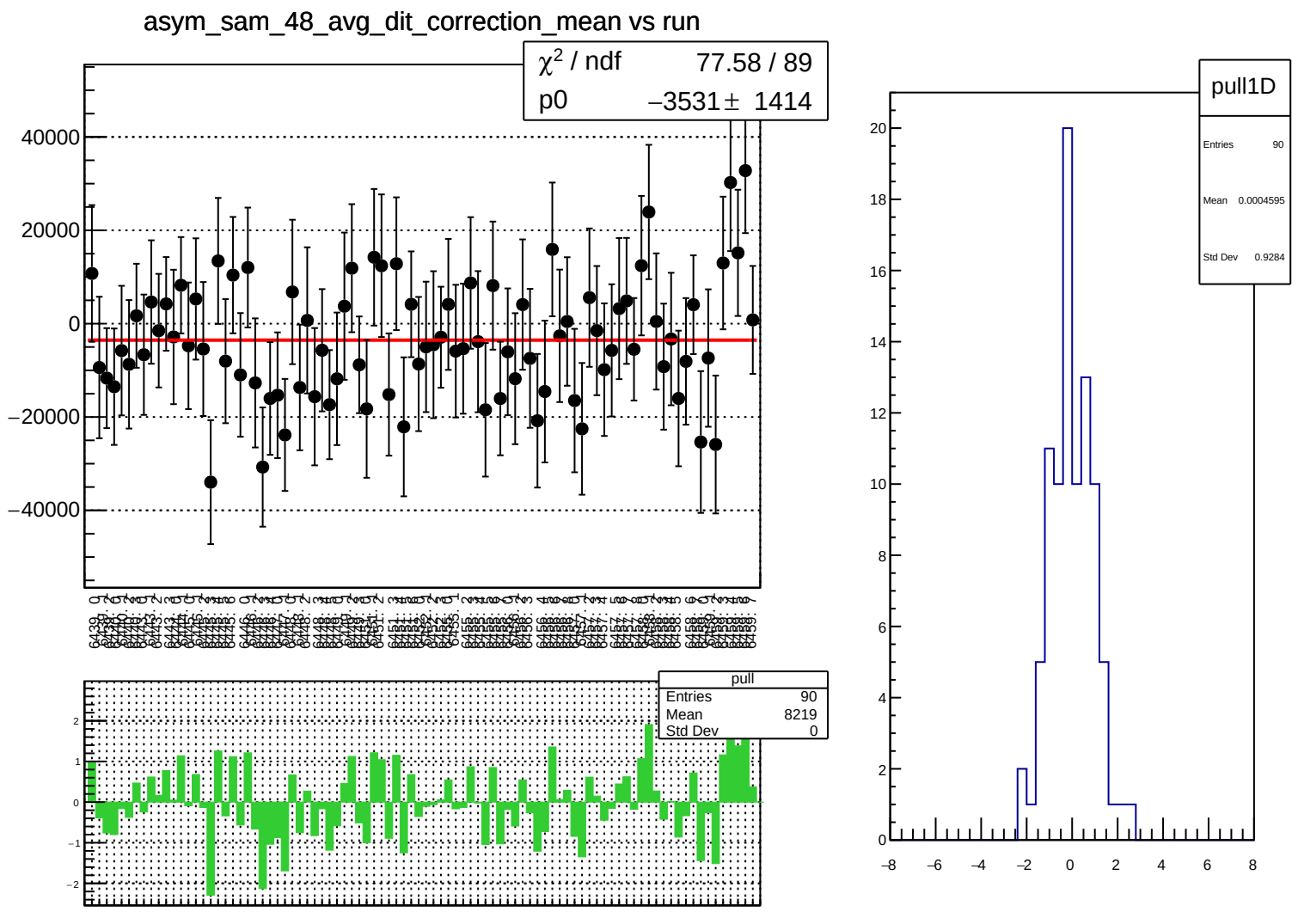
−4
−2
0
2
4
6
8

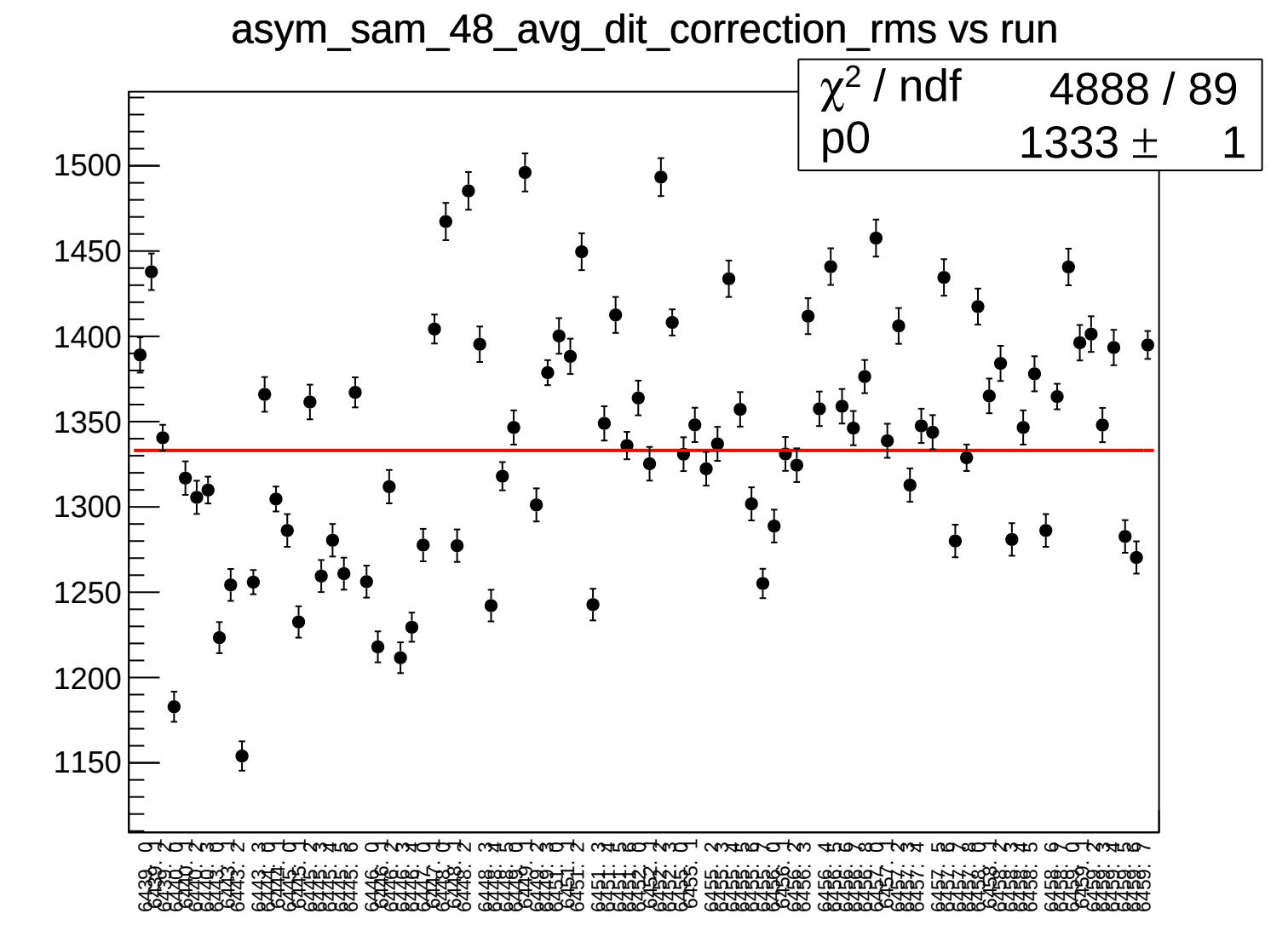

asym_sam_48_avg_eigen_cor_correction_rms vs run
χ² / ndf 6728 / 89
p0 1330 ± 0.9983
1700
1600
1500
1400
1300
1200
1100

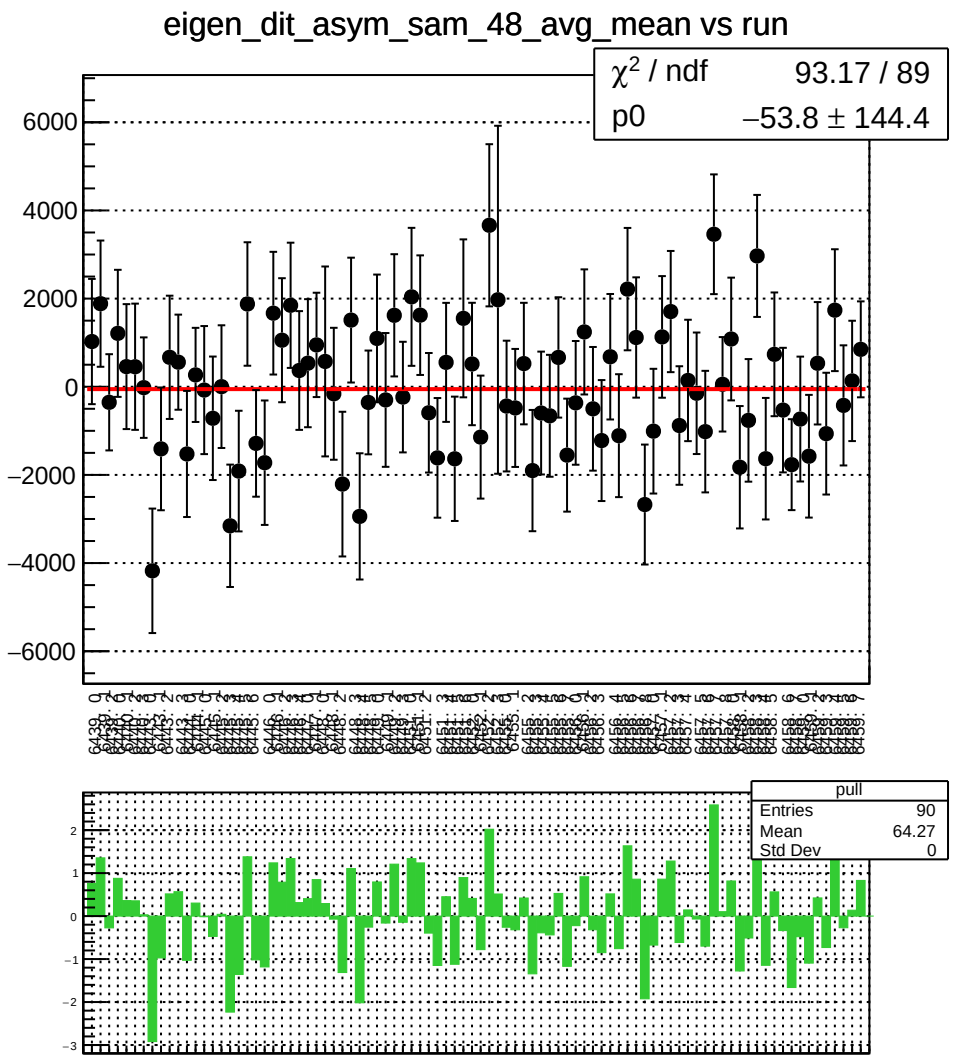

dit_asym_sam_48_avg_mean vs run
χ² / ndf 93.17 / 89
p0 −53.82 ± 144.4
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 90
Mean 64.27
Std Dev 0
2
1
0
−1
−2
−3

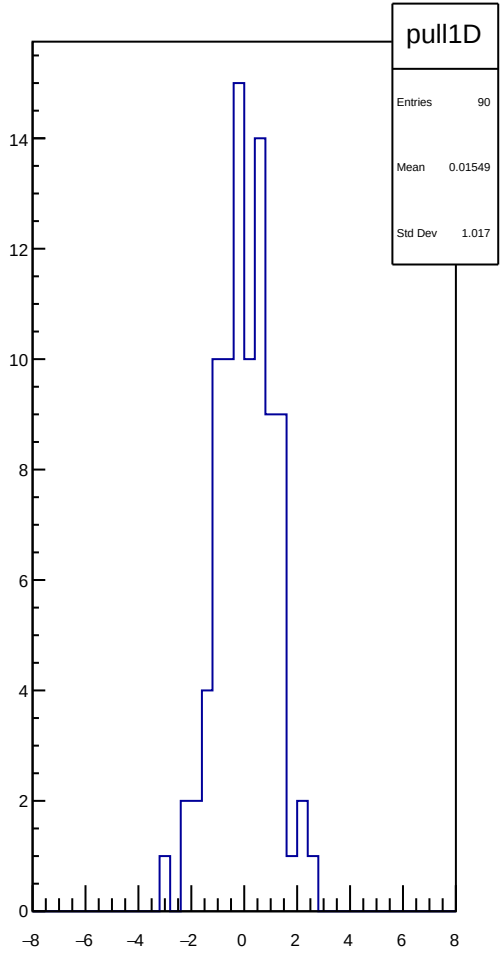

pull1D
Entries 90
Mean 0.01549
Std Dev 1.017
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam_48_avg_rms vs run
χ² / ndf 2.804e+04 / 89
p0 135.2 ± 0.1021
550
500
450
400
350
300
250
200
150
100


asym_sam_48_avg_dit_correction_mean vs run
χ² / ndf 77.58 / 89
p0 −3531 ± 1414
40000
20000
0
−20000
−40000
pull
Entries 90
Mean 8219
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 90
Mean 0.0004595
Std Dev 0.9284
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_48_avg_dit_correction_rms vs run
χ² / ndf 4888 / 89
p0 1333 ± 1
1500
1450
1400
1350
1300
1250
1200
1150


eigen_dit_asym_sam_48_avg_mean vs run
χ² / ndf 93.17 / 89
p0 −53.8 ± 144.4
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 90
Mean 64.27
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 90
Mean 0.01549
Std Dev 1.017
14
12
10
8
6
4
2
0
−8
−6
−4
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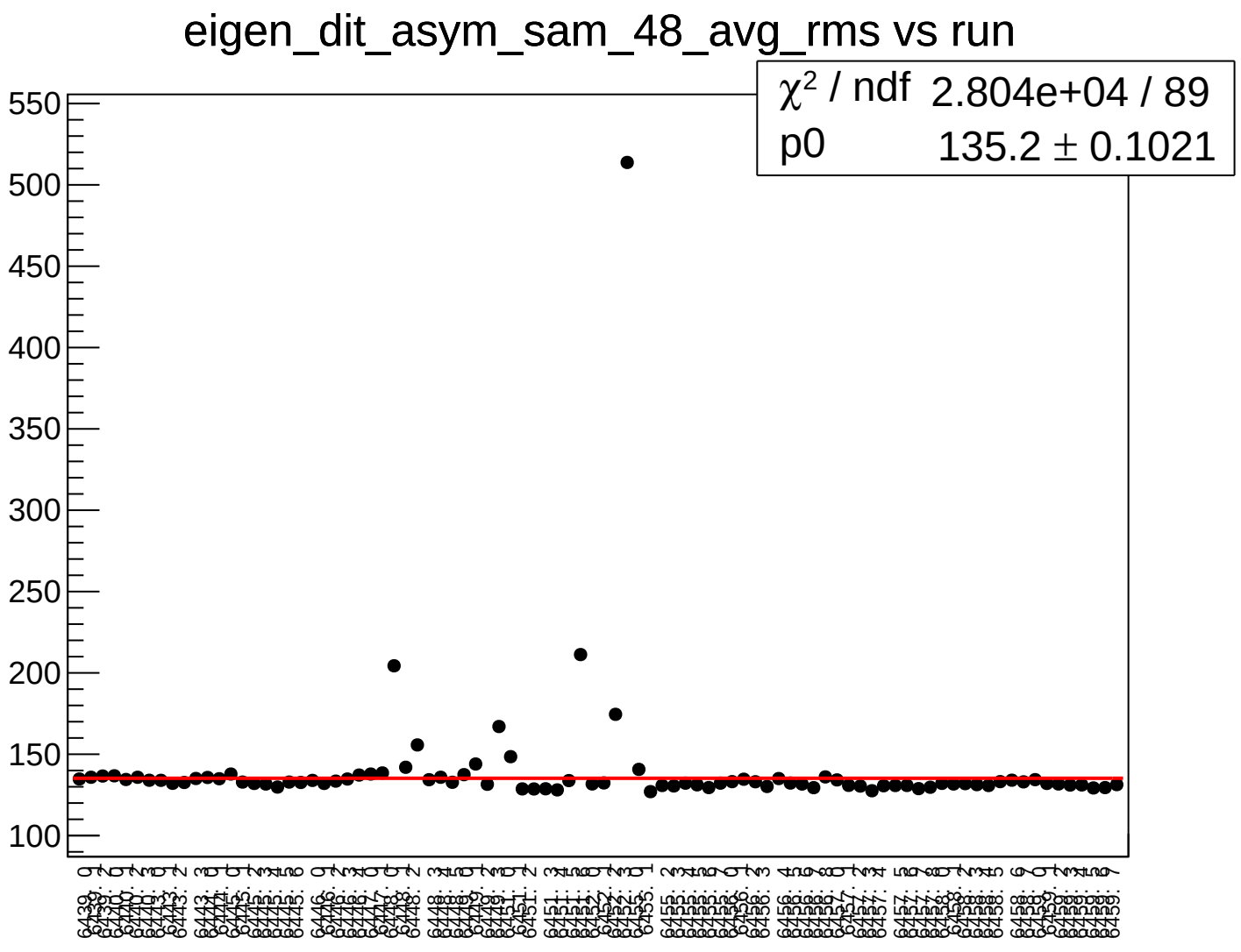
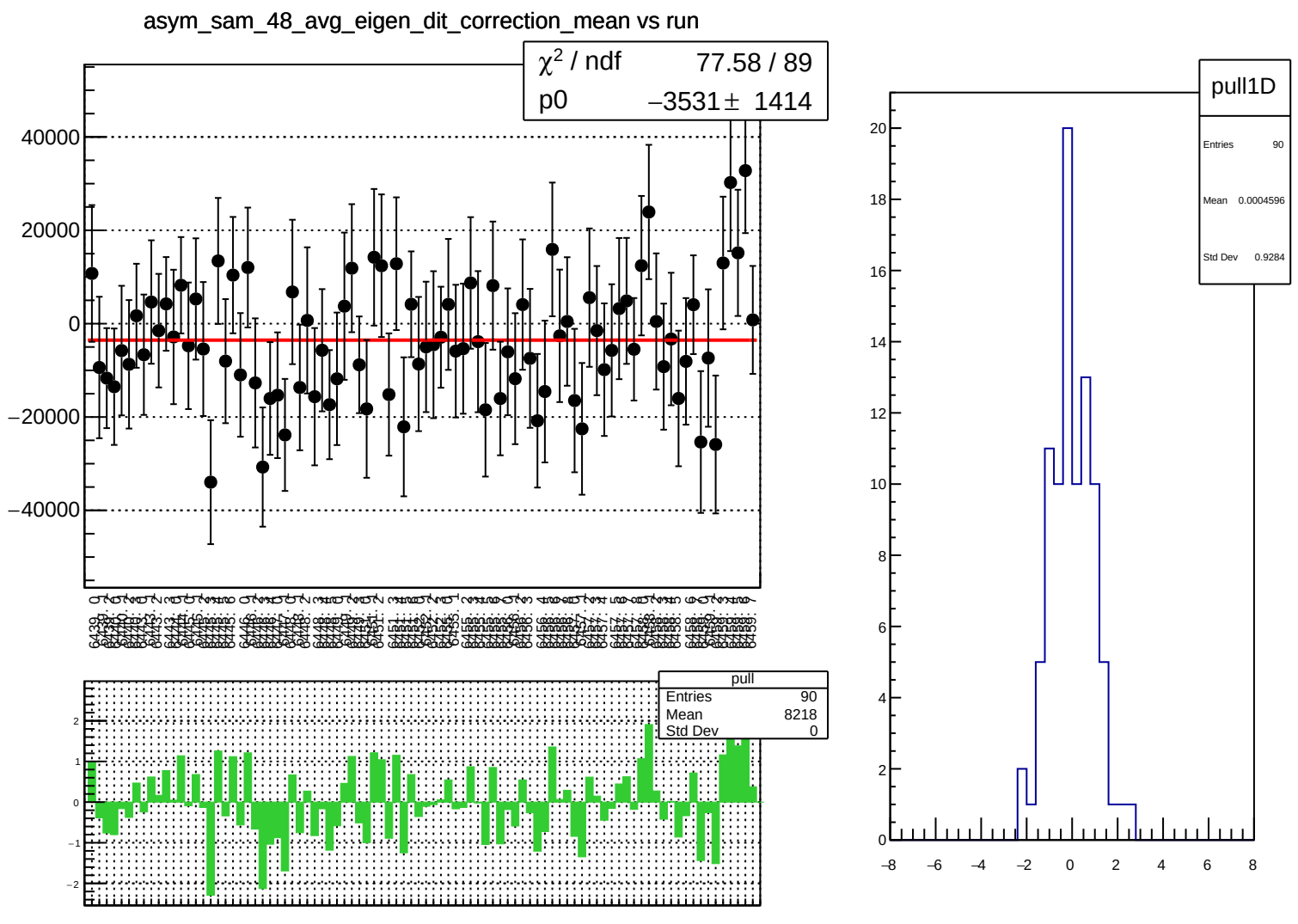
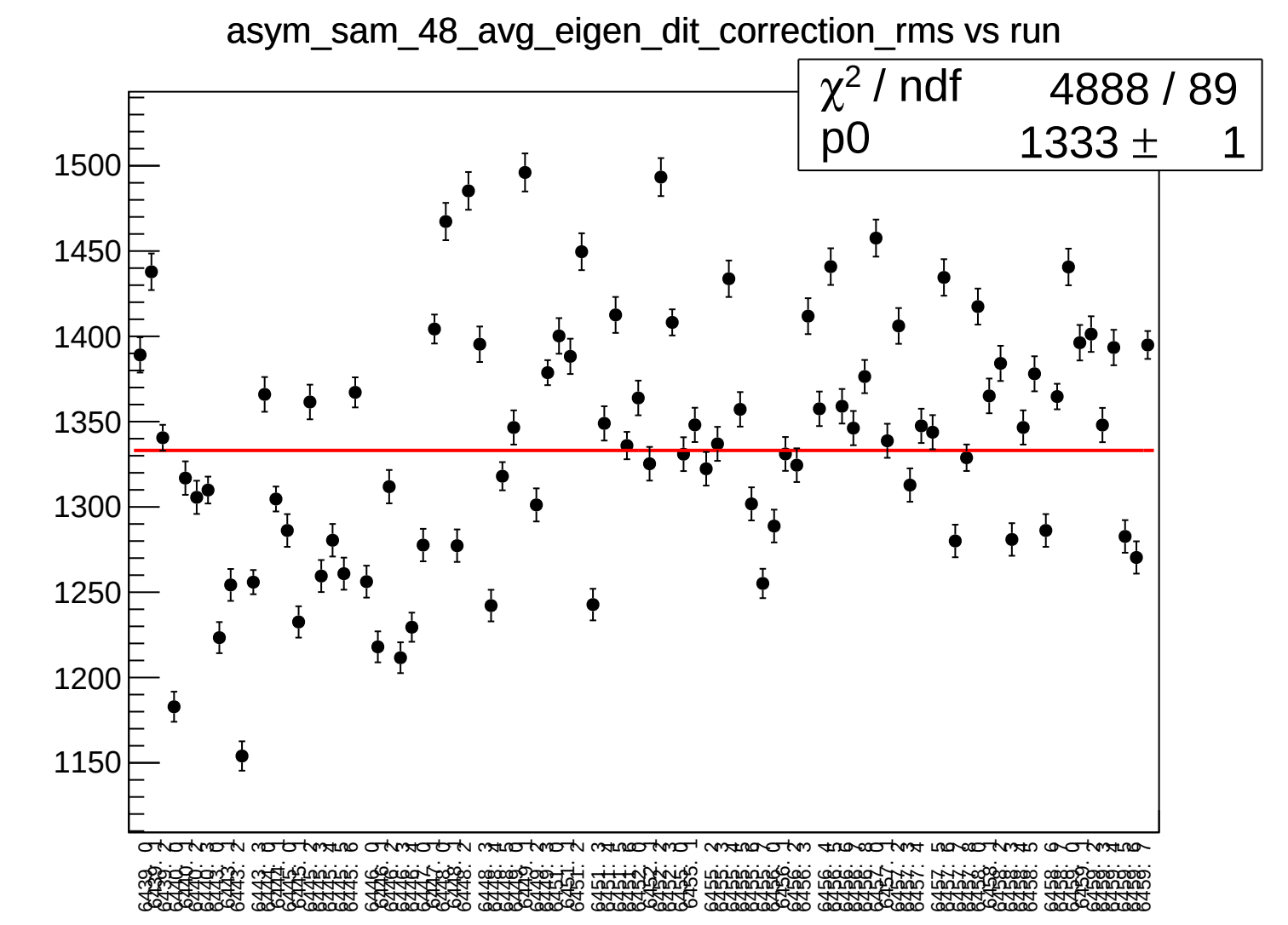
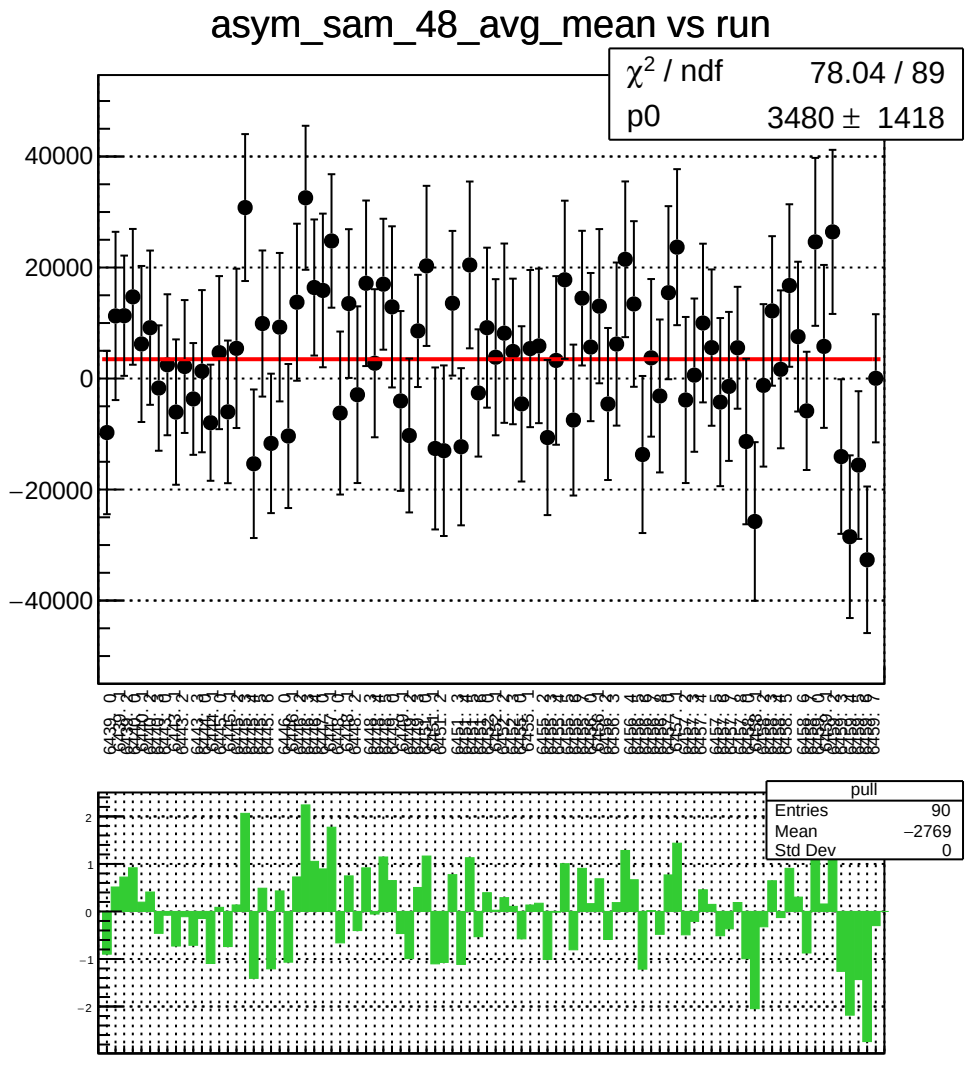
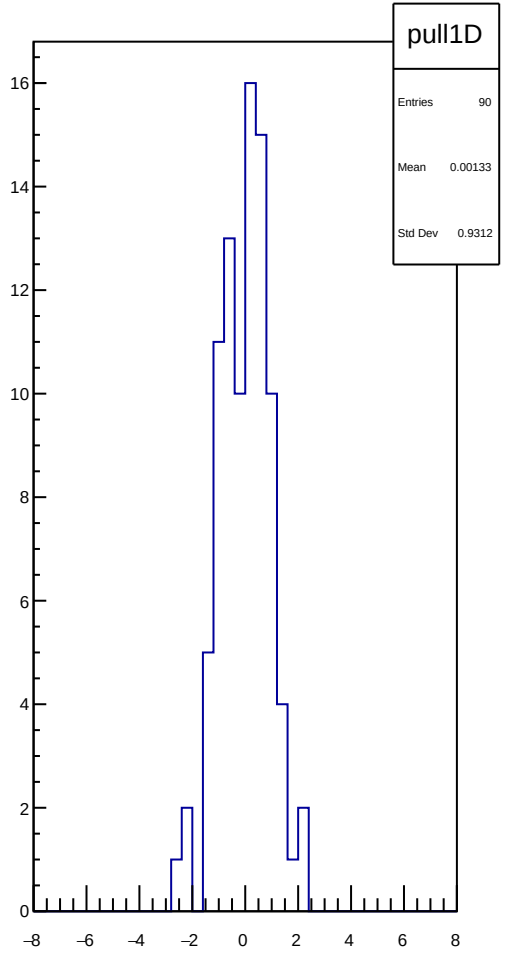
2
4
6
8

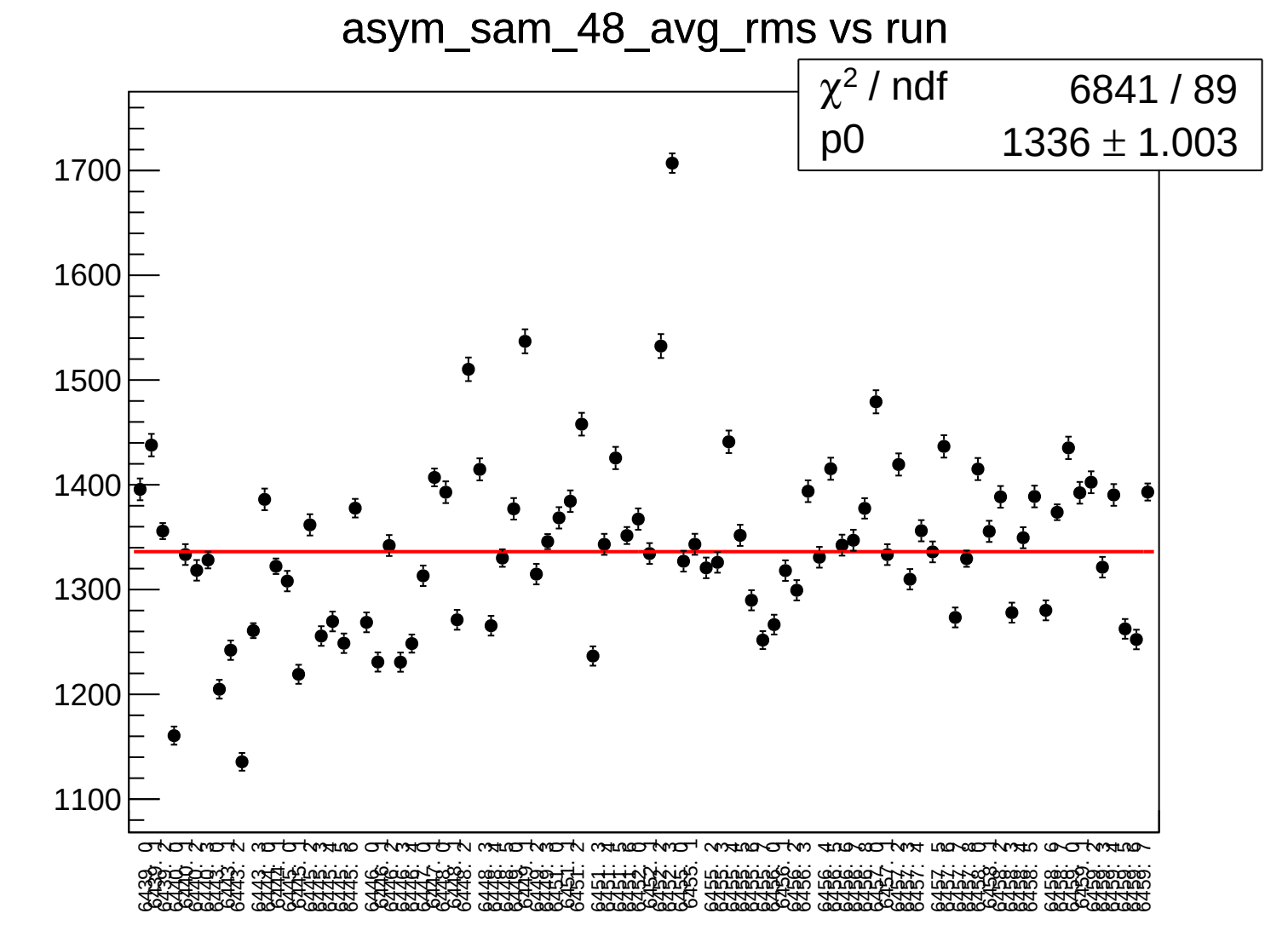

eigen_dit_asym_sam_48_avg_rms vs run
χ² / ndf 2.804e+04 / 89
p0 135.2 ± 0.1021
550
500
450
400
350
300
250
200
150
100

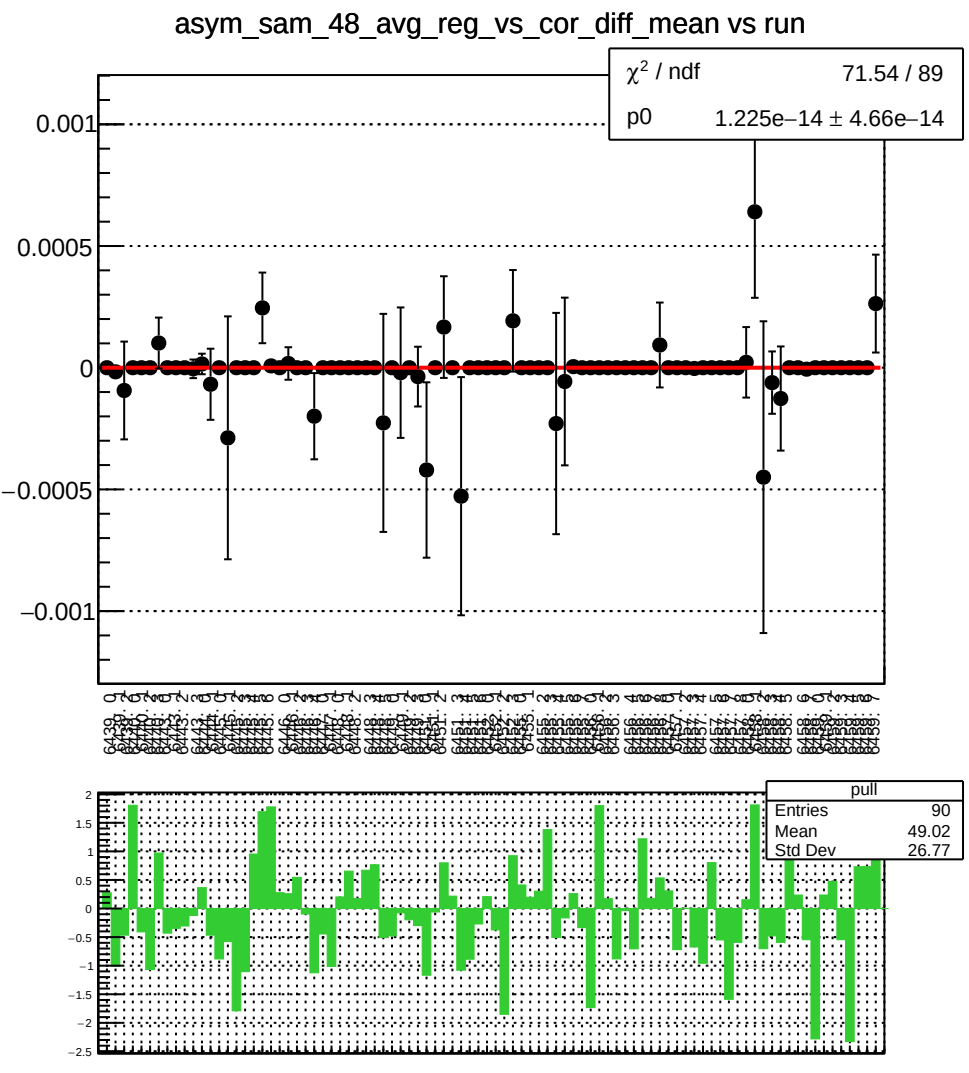

asym_sam_48_avg_eigen_dit_correction_mean vs run
χ² / ndf 77.58 / 89
p0 −3531 ± 1414
40000
20000
0
−20000
−40000
pull
Entries 90
Mean 8218
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 90
Mean 0.0004596
Std Dev 0.9284
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

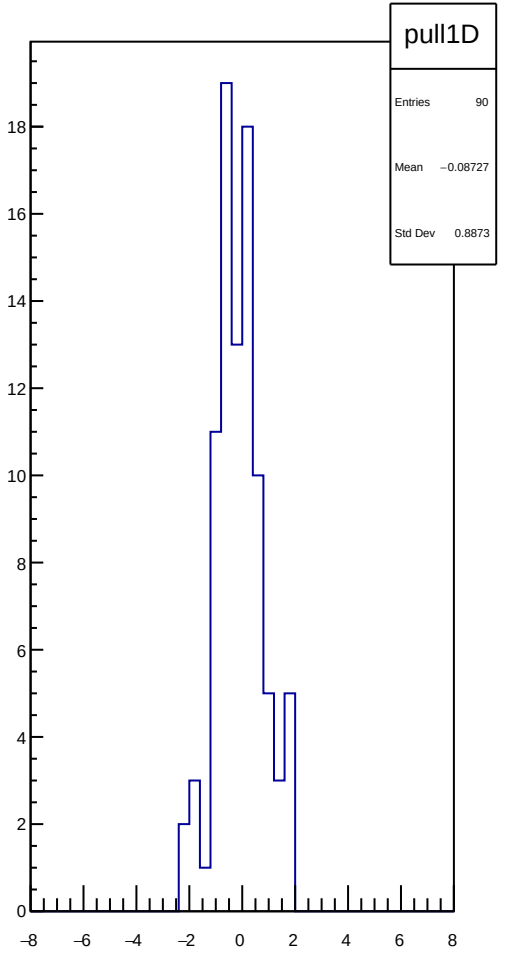

asym_sam_48_avg_eigen_dit_correction_rms vs run
χ² / ndf 4888 / 89
p0 1333 ± 1
1500
1450
1400
1350
1300
1250
1200
1150

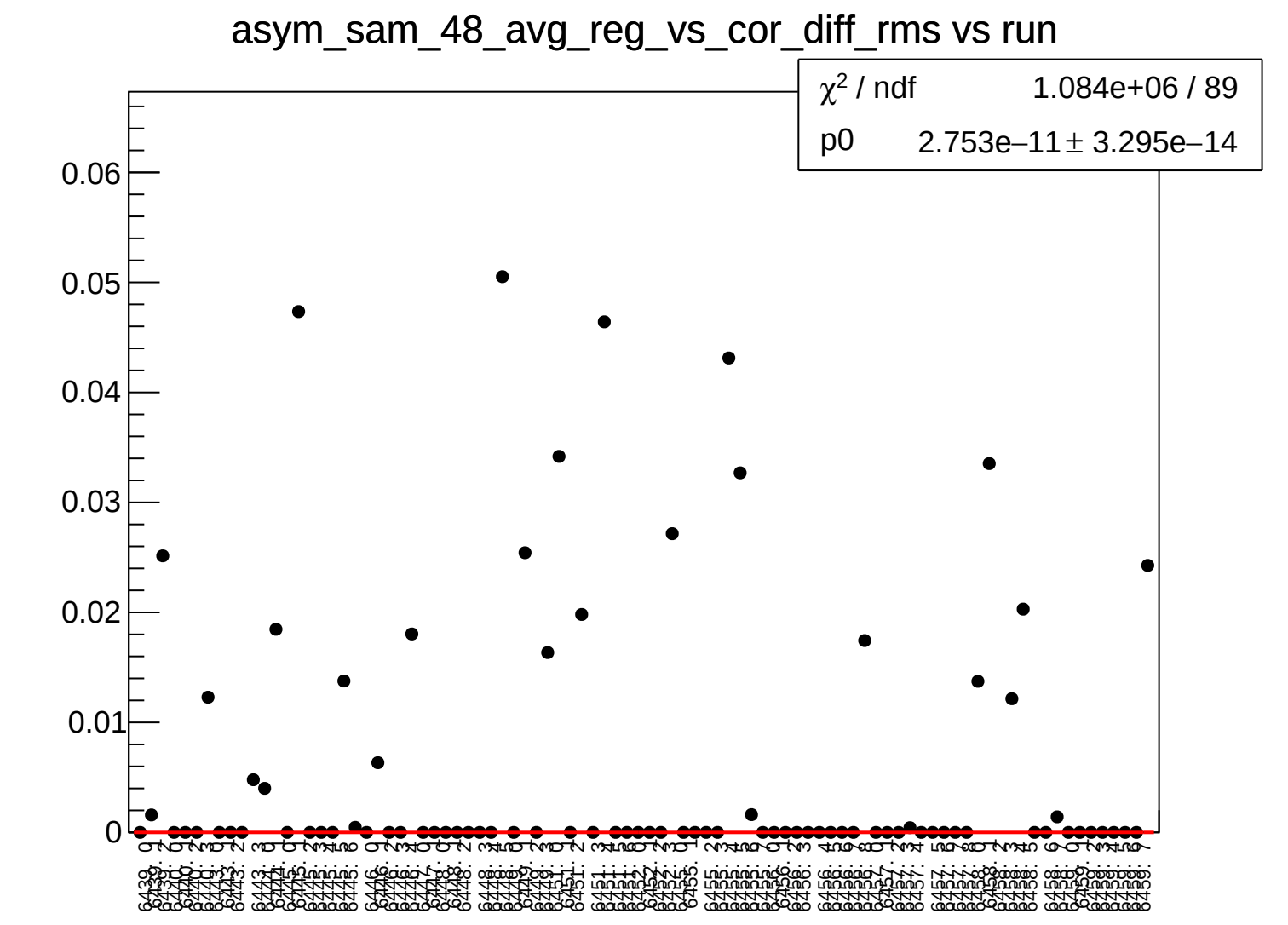

asym_sam_48_avg_mean vs run
χ² / ndf 78.04 / 89
p0 3480 ± 1418
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −2769
Std Dev 0
2
1
0
−1
−2

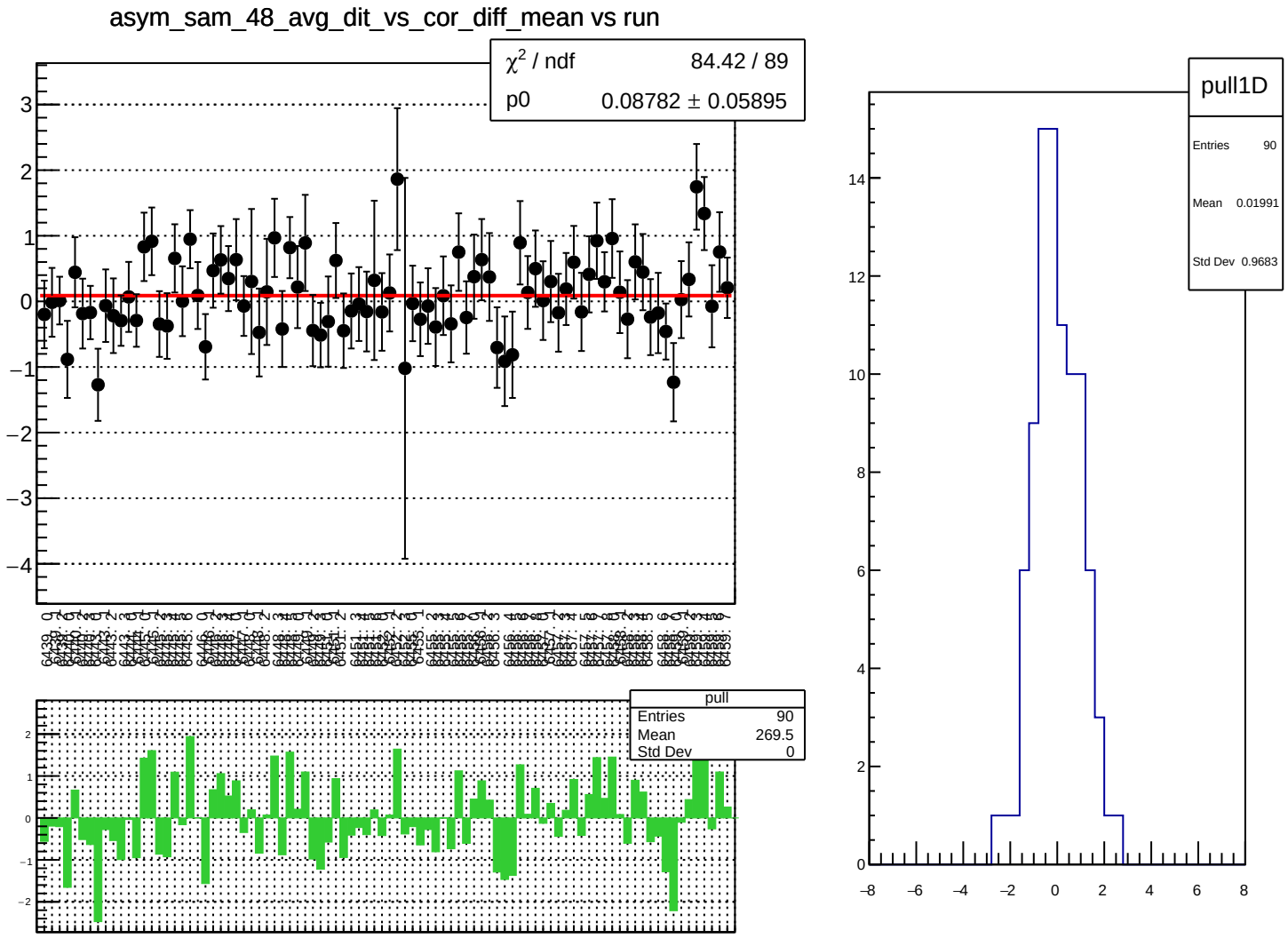

pull1D
Entries 90
Mean 0.00133
Std Dev 0.9312
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

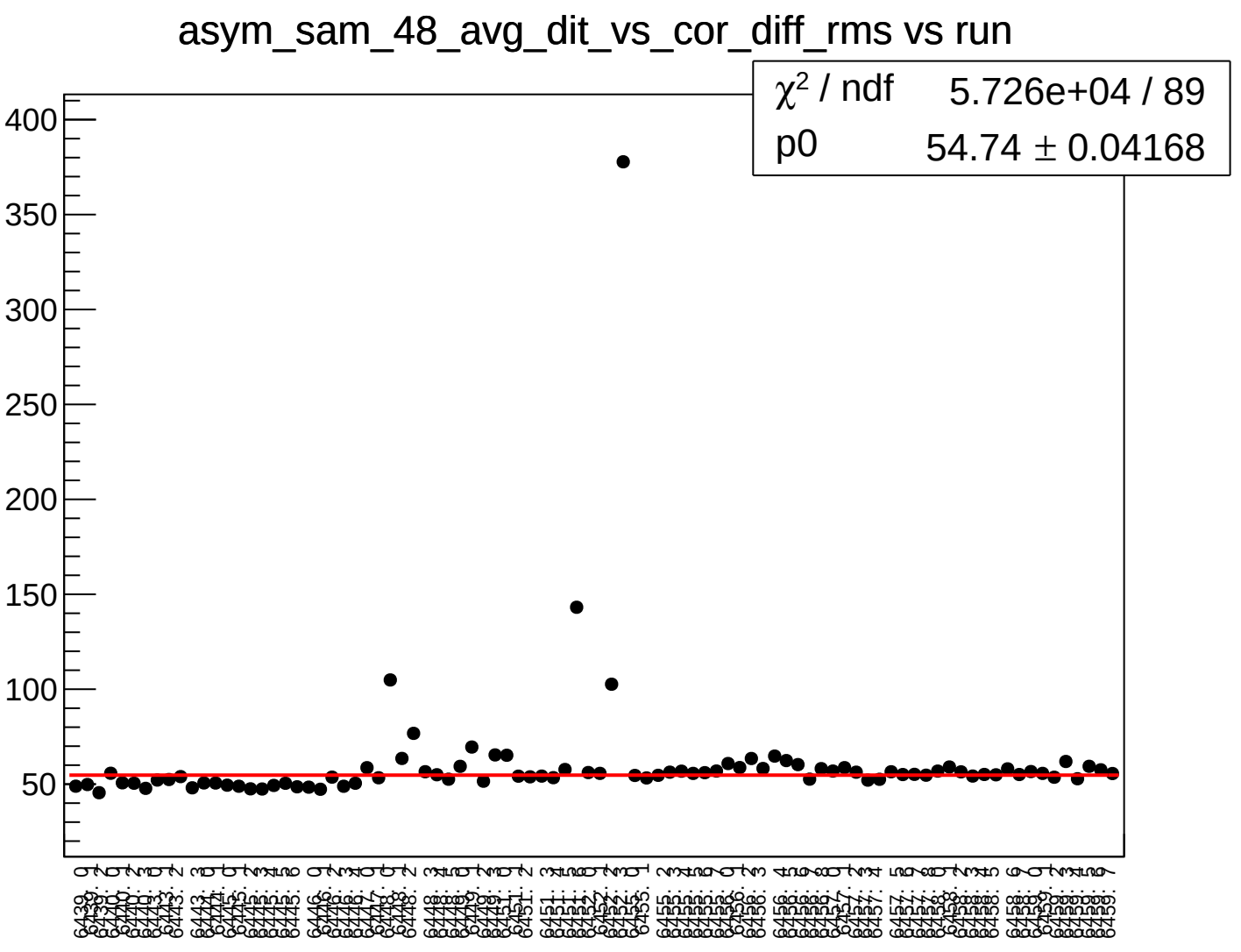

asym_sam_48_avg_rms vs run
χ^2 / ndf 6841 / 89
p0 1336 ± 1.003
1700
1600
1500
1400
1300
1200
1100

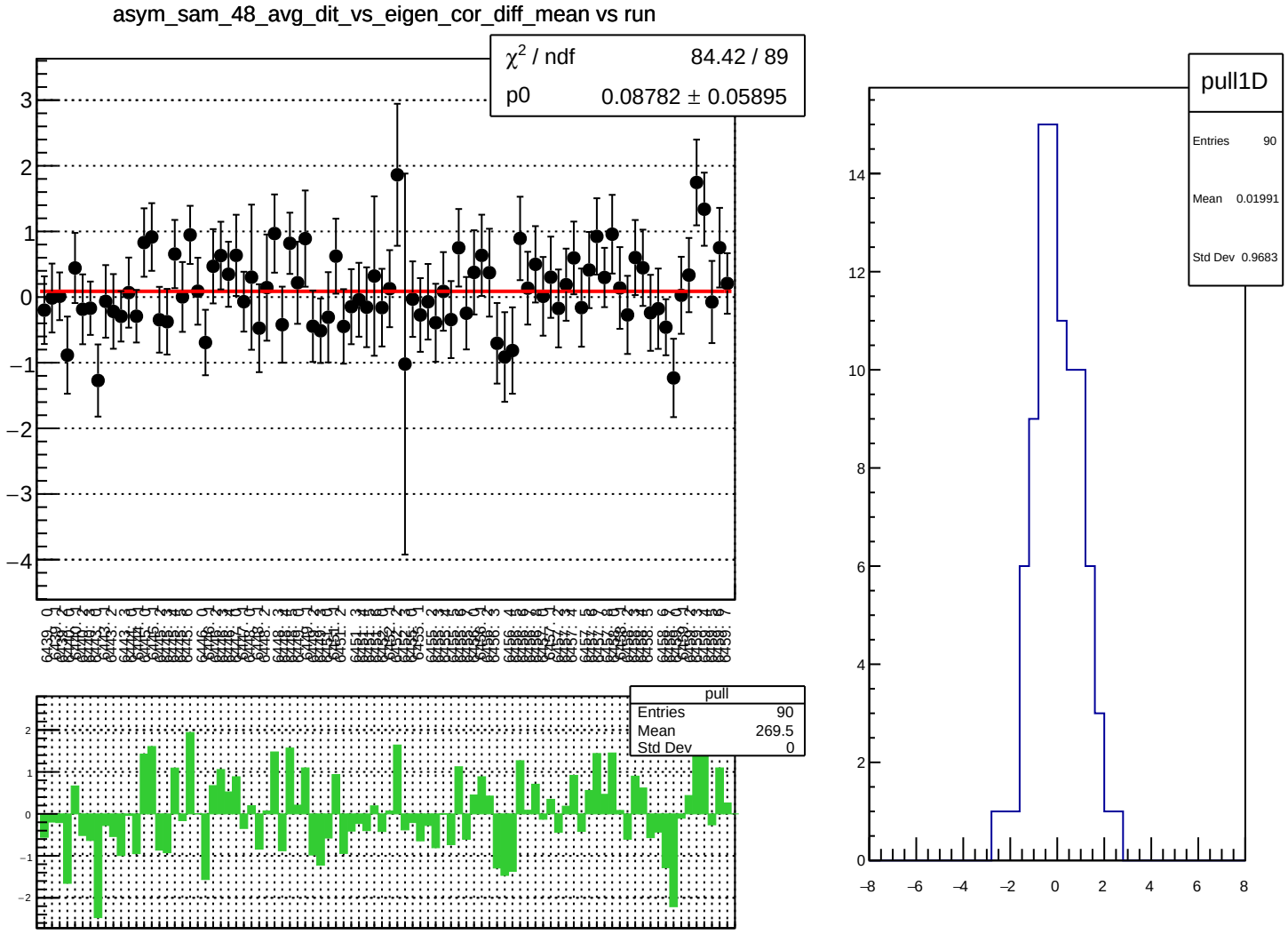

asym_sam_48_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 71.54 / 89
p0 1.225e−14 ± 4.66e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 90
Mean 49.02
Std Dev 26.77
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

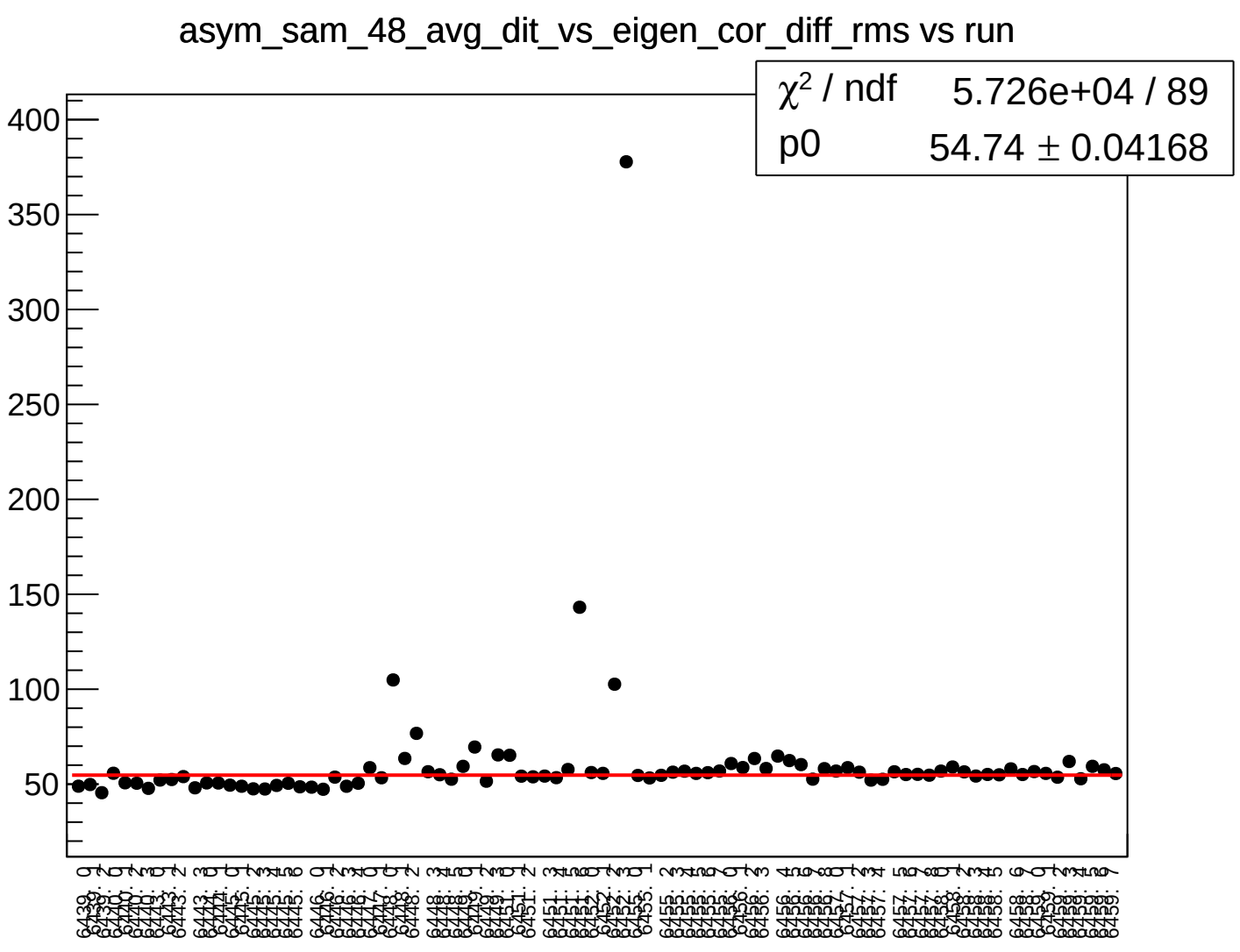

pull1D
Entries 90
Mean −0.08727
Std Dev 0.8873
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

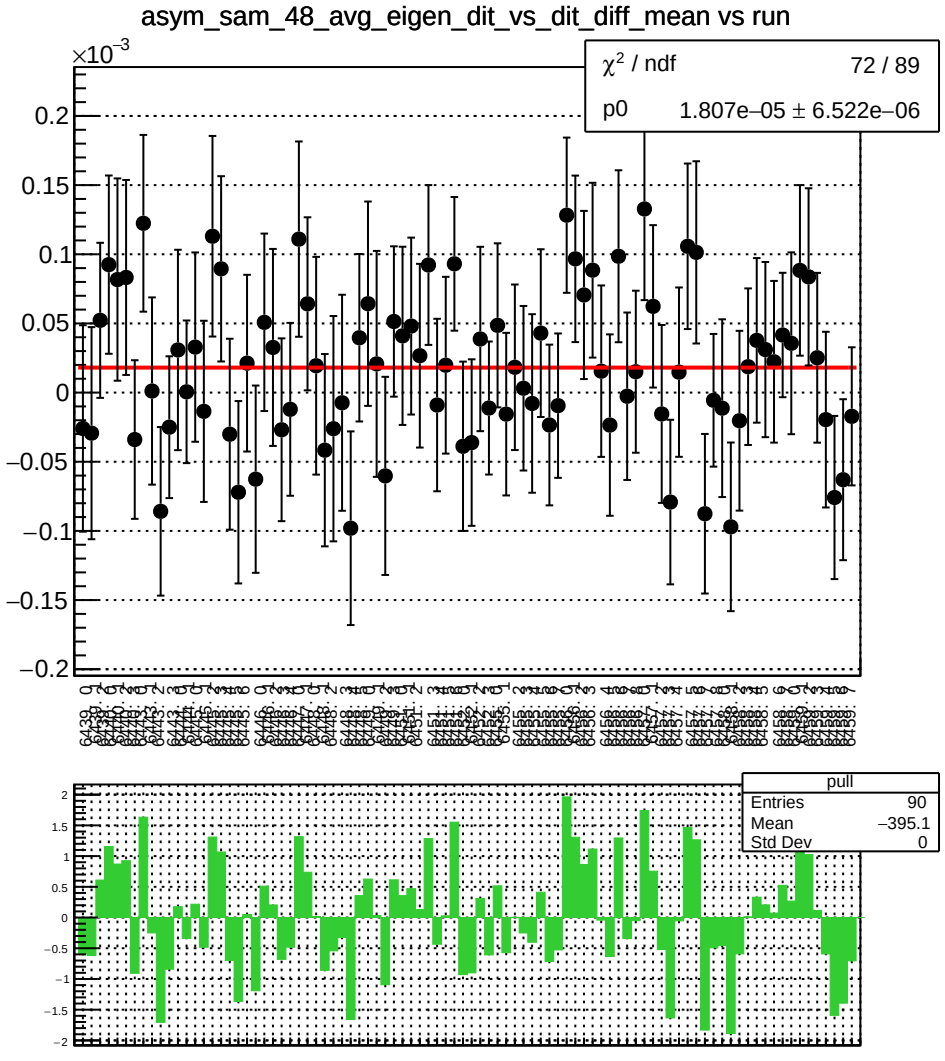

asym_sam_48_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.084e+06 / 89
p0 2.753e−11 ± 3.295e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

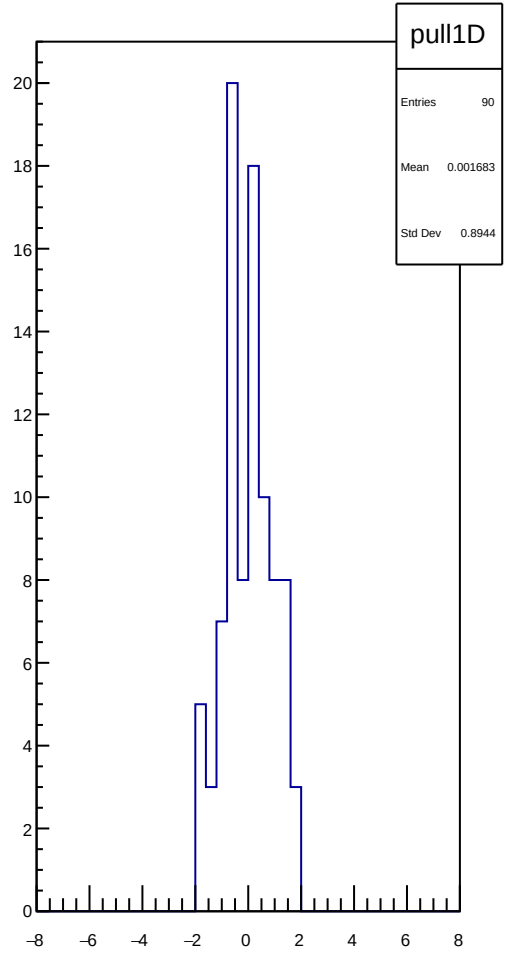

asym_sam_48_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 84.42 / 89
p0 0.08782 ± 0.05895
pull
Entries 90
Mean 269.5
Std Dev 0
pull1D
Entries 90
Mean 0.01991
Std Dev 0.9683

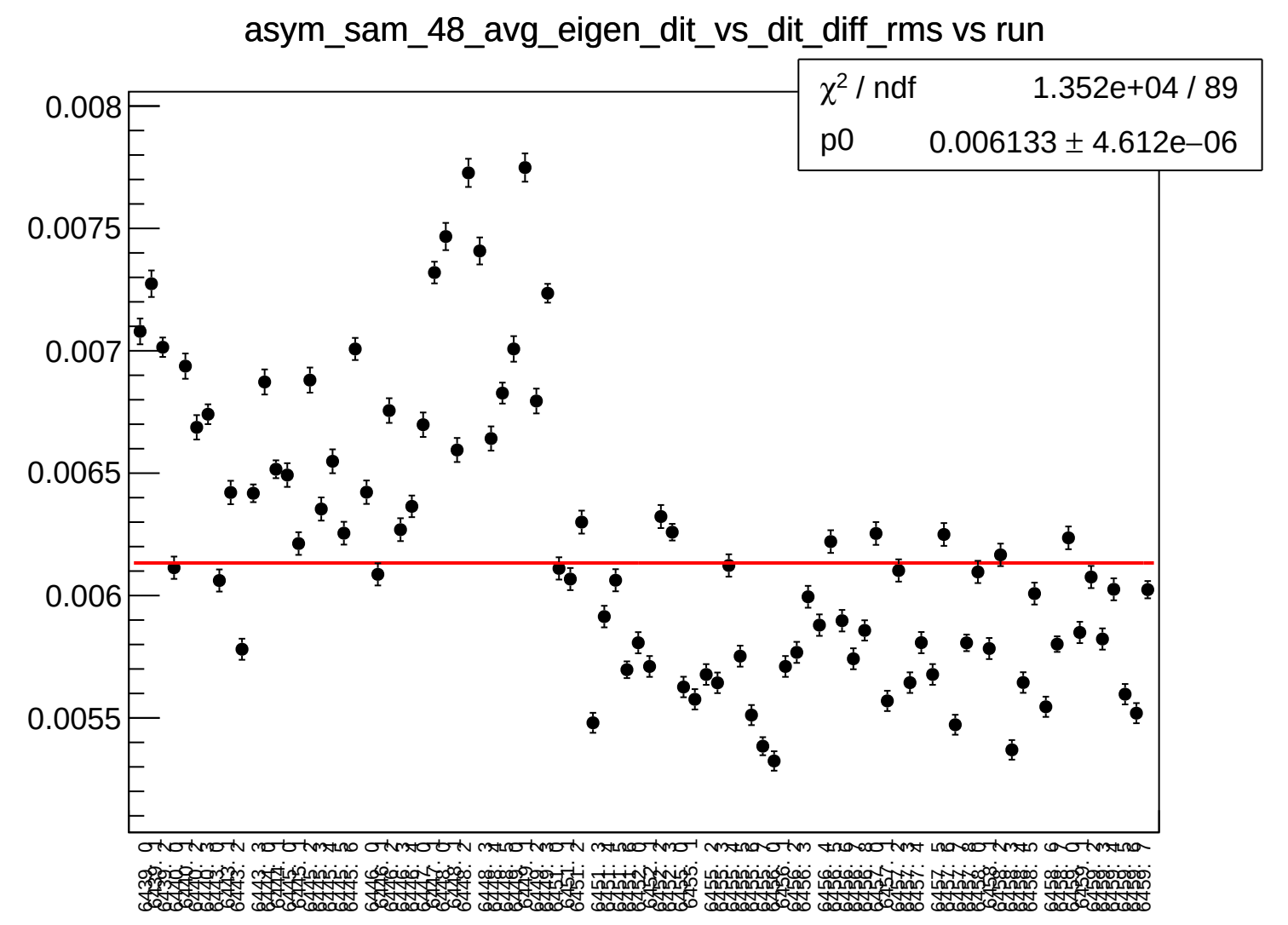

asym_sam_48_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.726e+04 / 89
p0 54.74 ± 0.04168
400
350
300
250
200
150
100
50

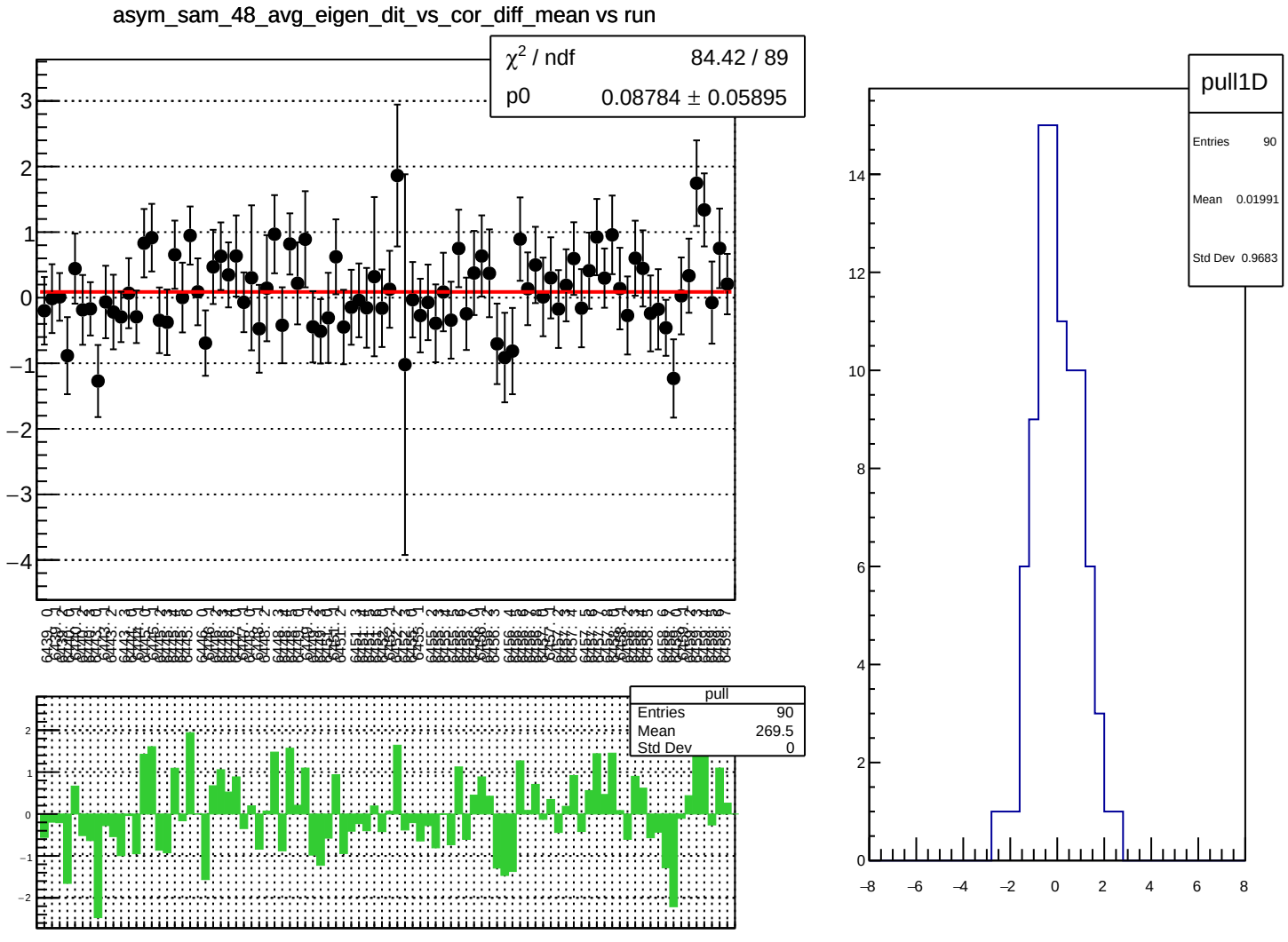

asym_sam_48_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.42 / 89
p0 0.08782 ± 0.05895
pull
Entries 90
Mean 269.5
Std Dev 0
pull1D
Entries 90
Mean 0.01991
Std Dev 0.9683

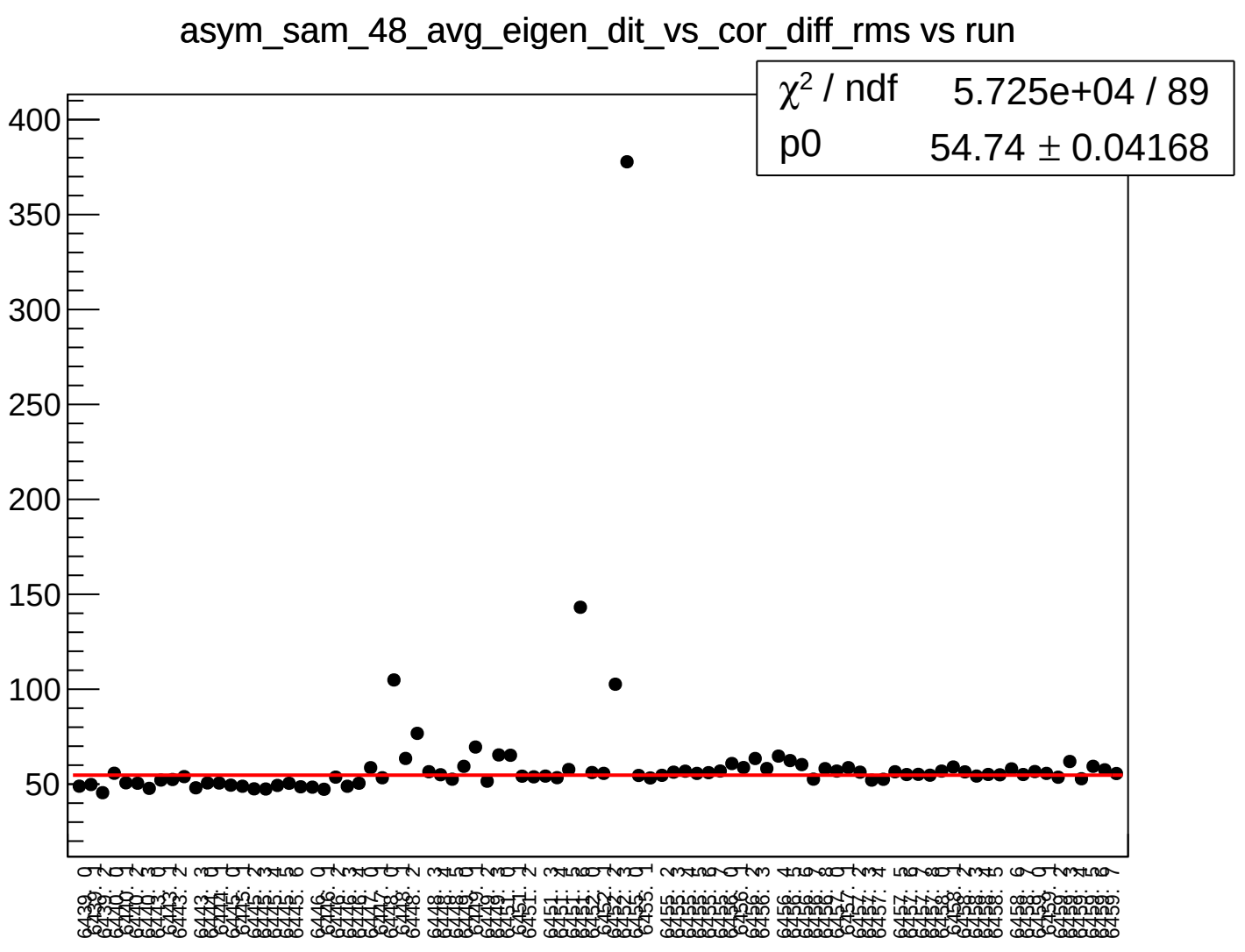

asym_sam_48_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.726e+04 / 89
p0 54.74 ± 0.04168
400
350
300
250
200
150
100
50

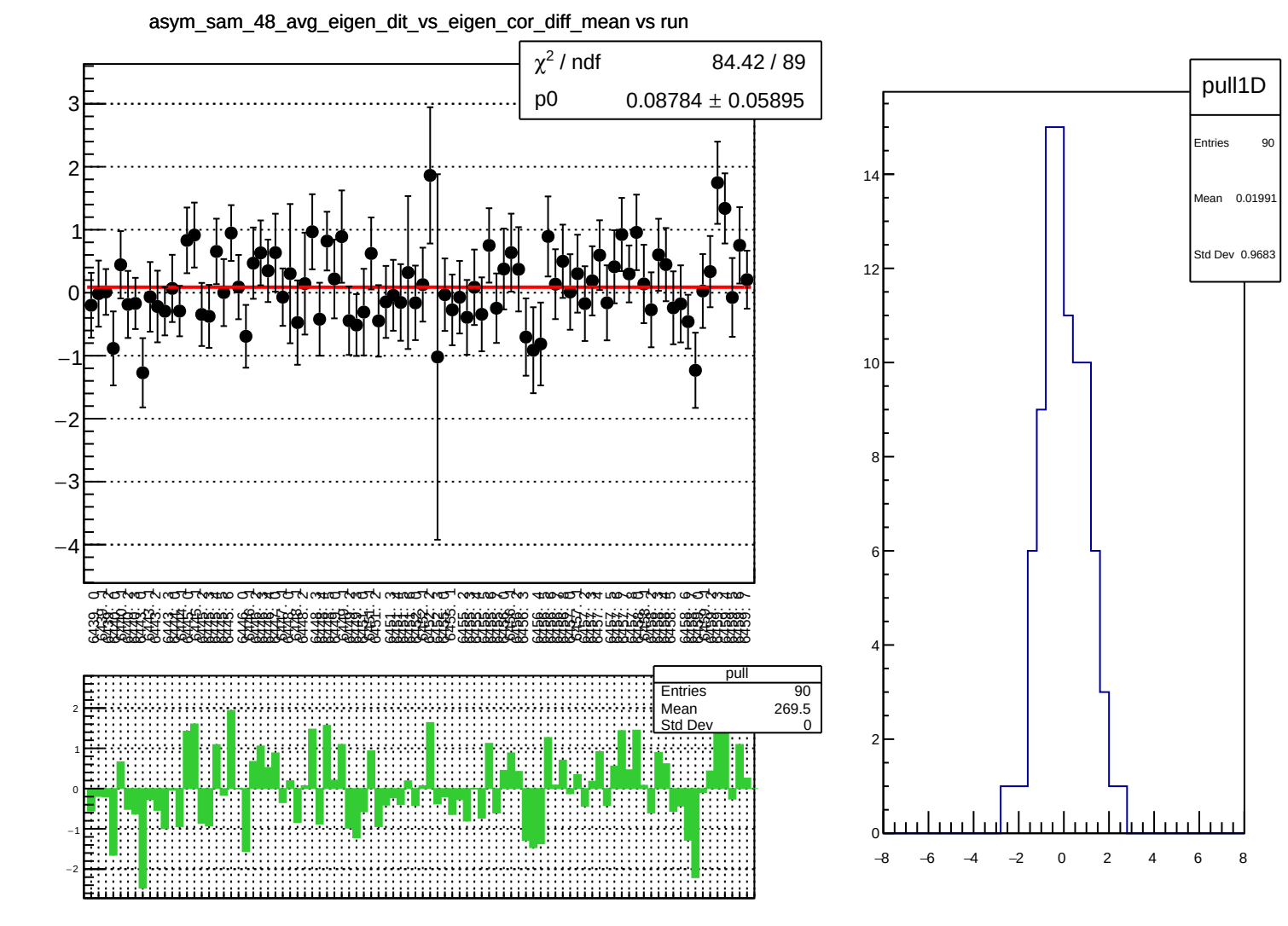

asym_sam_48_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 72 / 89
p0 1.807e−05 ± 6.522e−06
pull
Entries 90
Mean −395.1
Std Dev 0

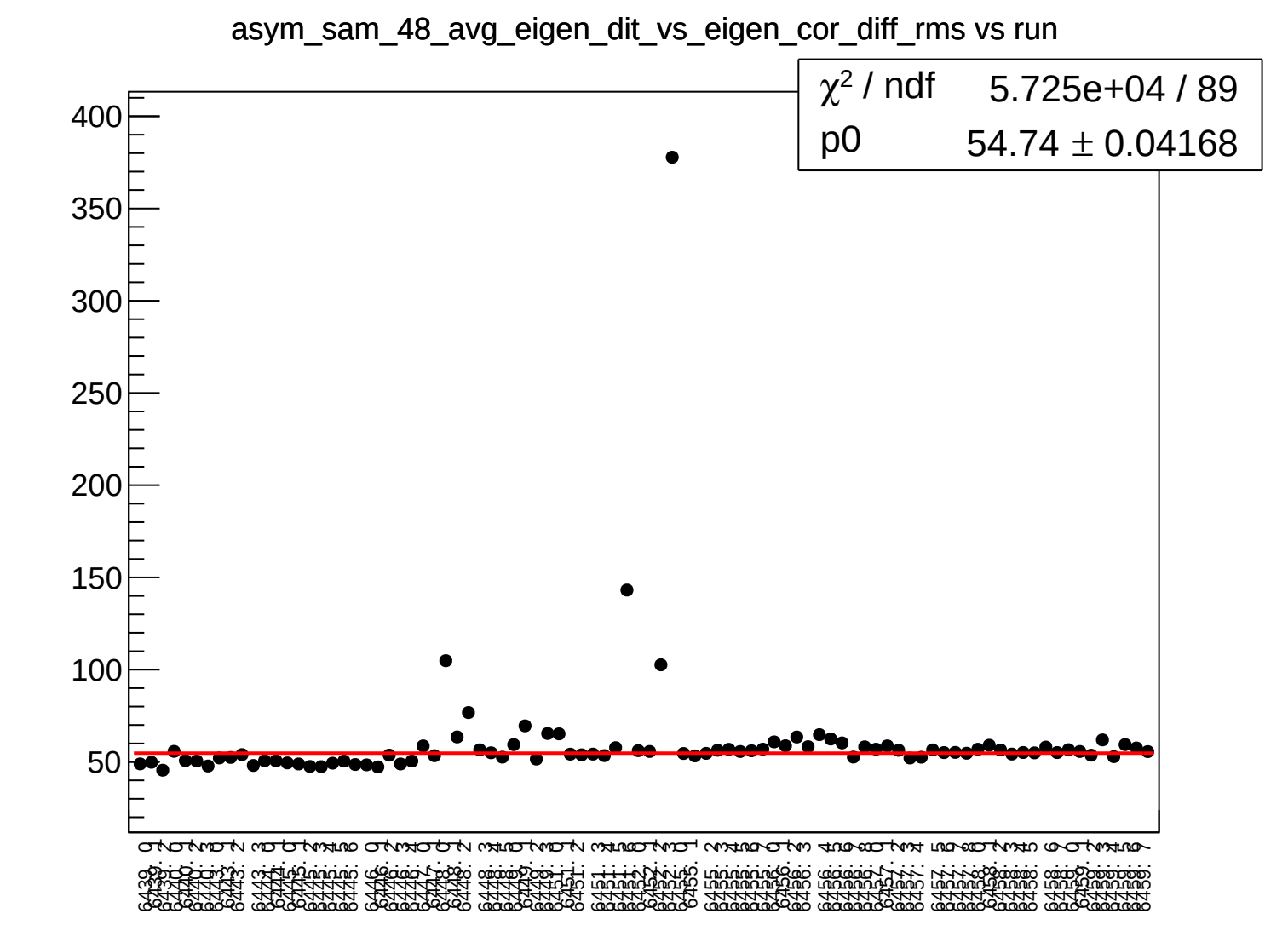

pull1D
Entries 90
Mean 0.001683
Std Dev 0.8944

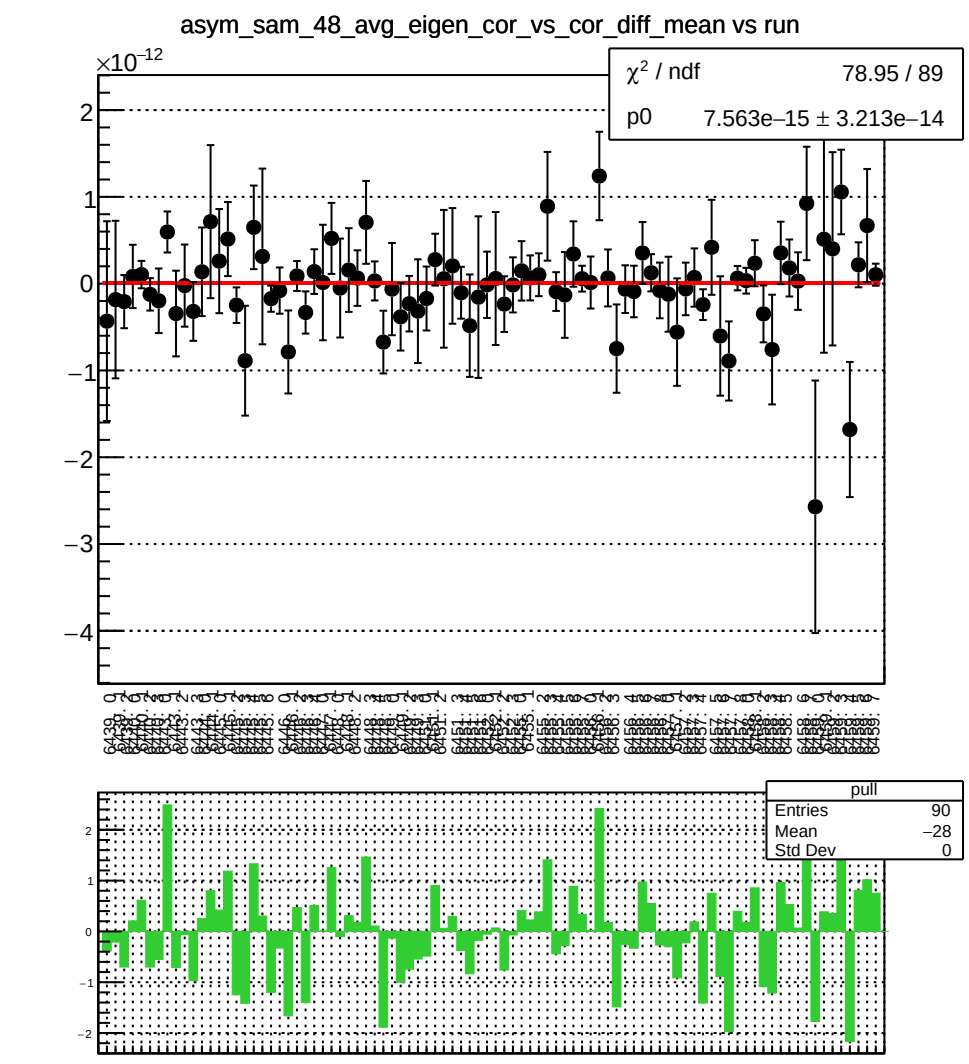

asym_sam_48_avg_eigen_dit_vs_dit_diff_rms vs run
χ2 / ndf 1.352e+04 / 89
p0 0.006133 ± 4.612e−06
0.008
0.0075
0.007
0.0065
0.006
0.0055

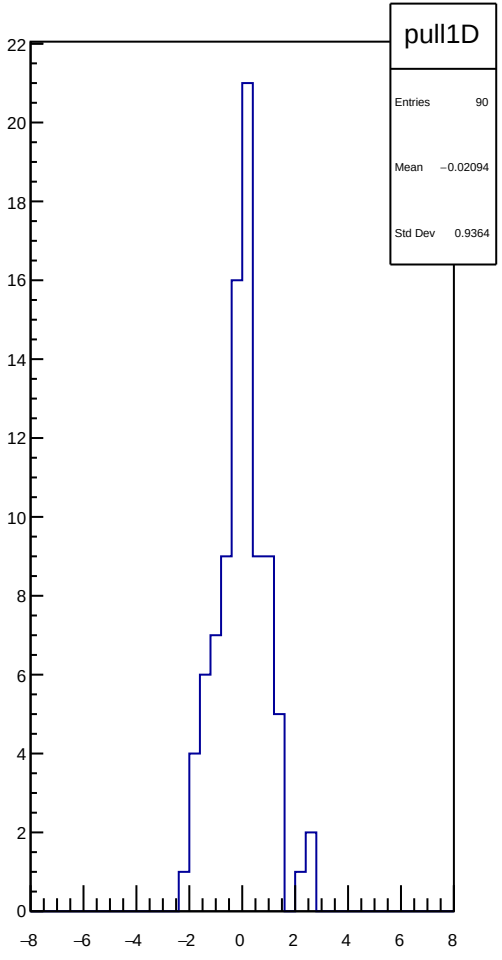

asym_sam_48_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.42 / 89
p0 0.08784 ± 0.05895
pull
Entries 90
Mean 269.5
Std Dev 0
pull1D
Entries 90
Mean 0.01991
Std Dev 0.9683

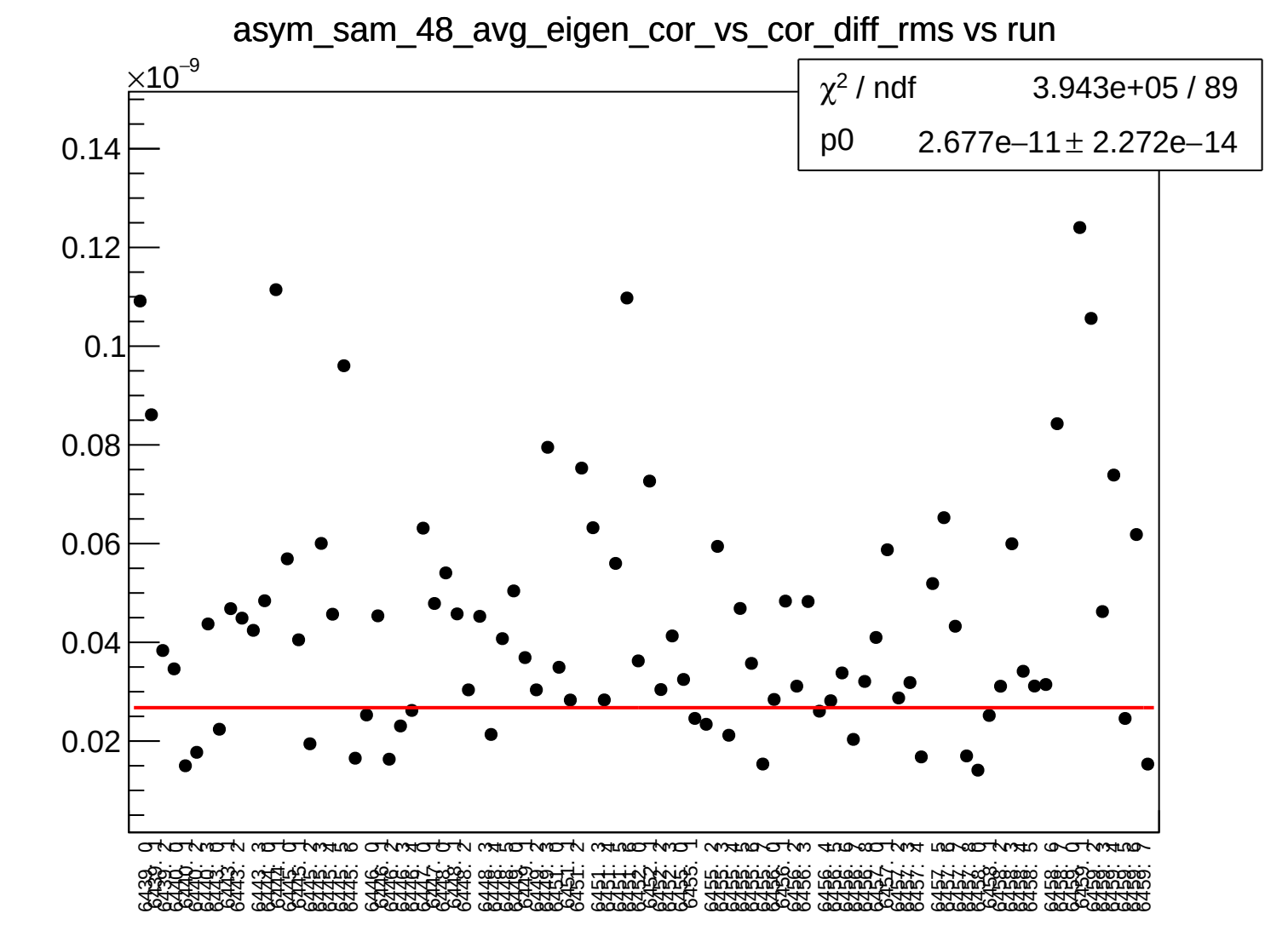

asym_sam_48_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.725e+04 / 89
p0 54.74 ± 0.04168
400
350
300
250
200
150
100
50

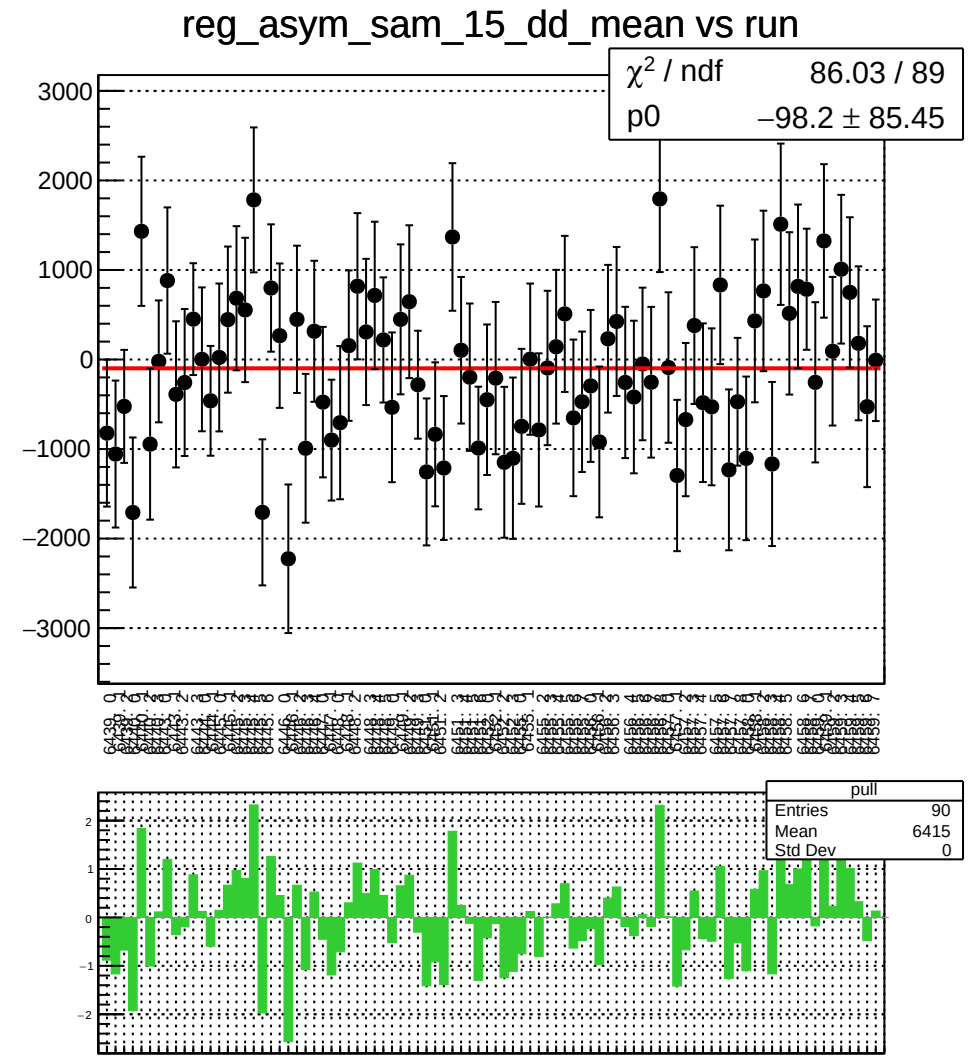

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.42 / 89
p0 0.08784 ± 0.05895
pull
Entries 90
Mean 269.5
Std Dev 0
pull1D
Entries 90
Mean 0.01991
Std Dev 0.9683

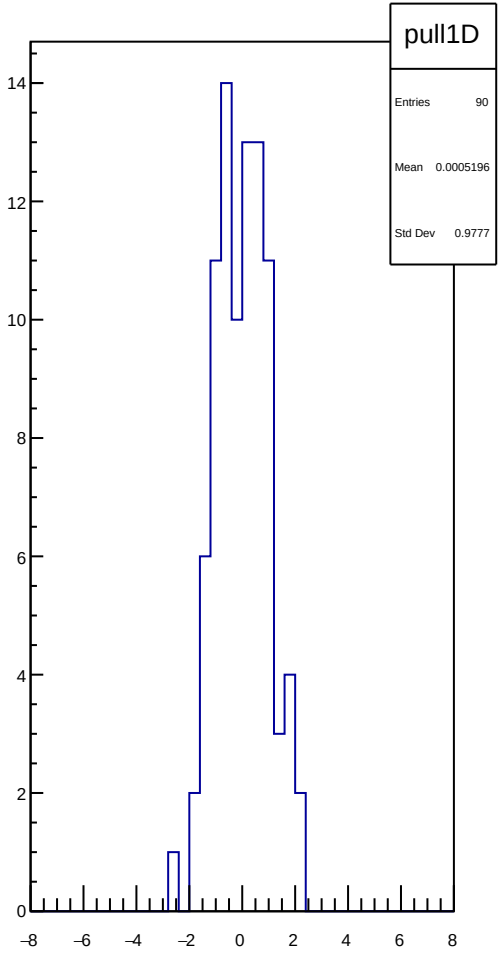

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.725e+04 / 89
p0 54.74 ± 0.04168
400
350
300
250
200
150
100
50

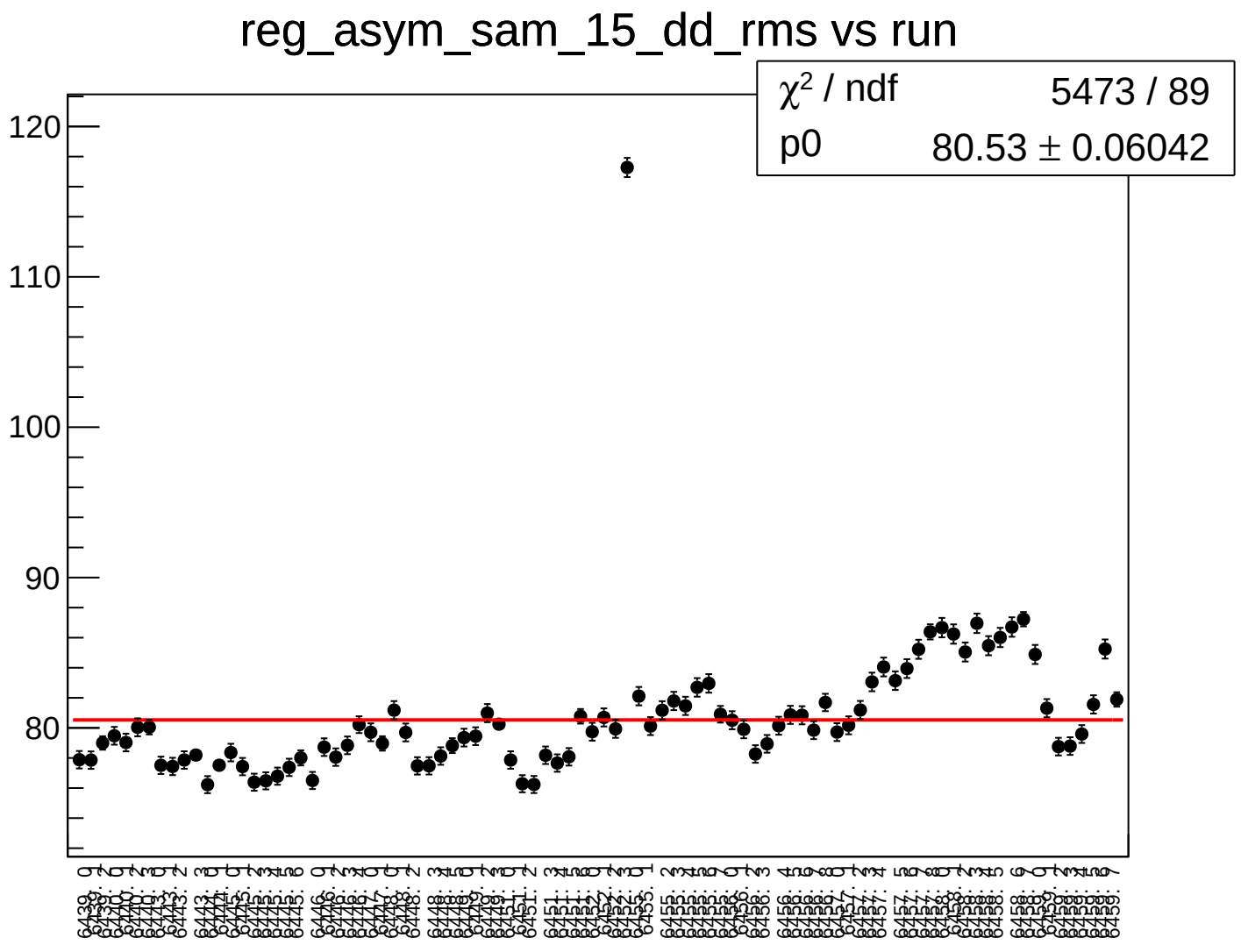

asym_sam_48_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.95 / 89
p0 7.563e−15 ± 3.213e−14
pull
Entries 90
Mean −28
Std Dev 0

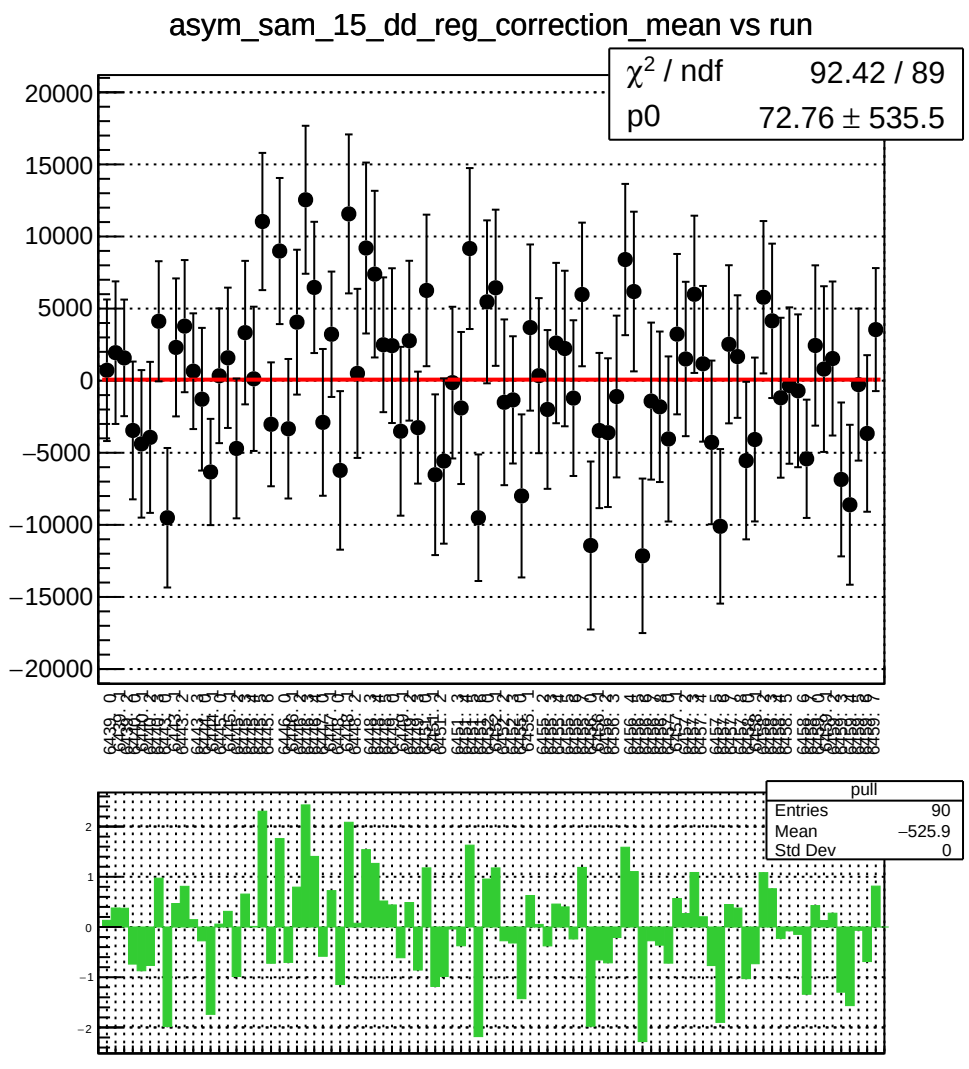

pull1D
Entries 90
Mean −0.02094
Std Dev 0.9364

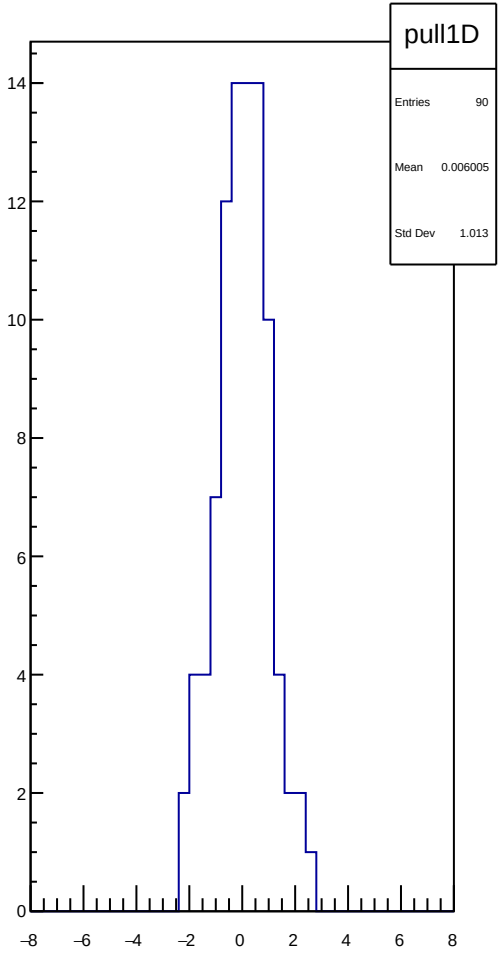

asym_sam_48_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.943e+05 / 89
p0 2.677e−11 ± 2.272e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

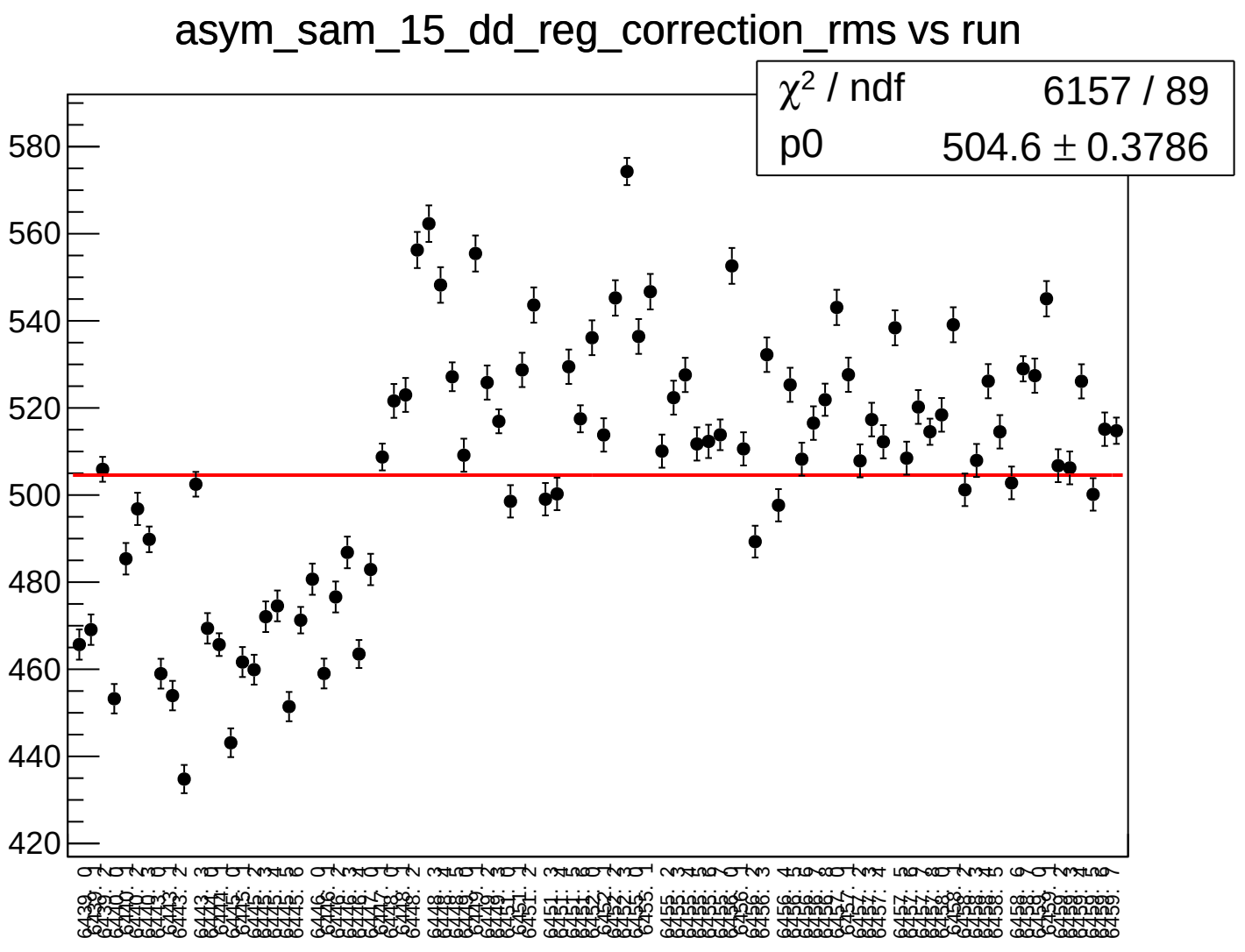

reg_asym_sam_15_dd_mean vs run
χ² / ndf 86.03 / 89
p0 −98.2 ± 85.45
pull
Entries 90
Mean 6415
Std Dev 0

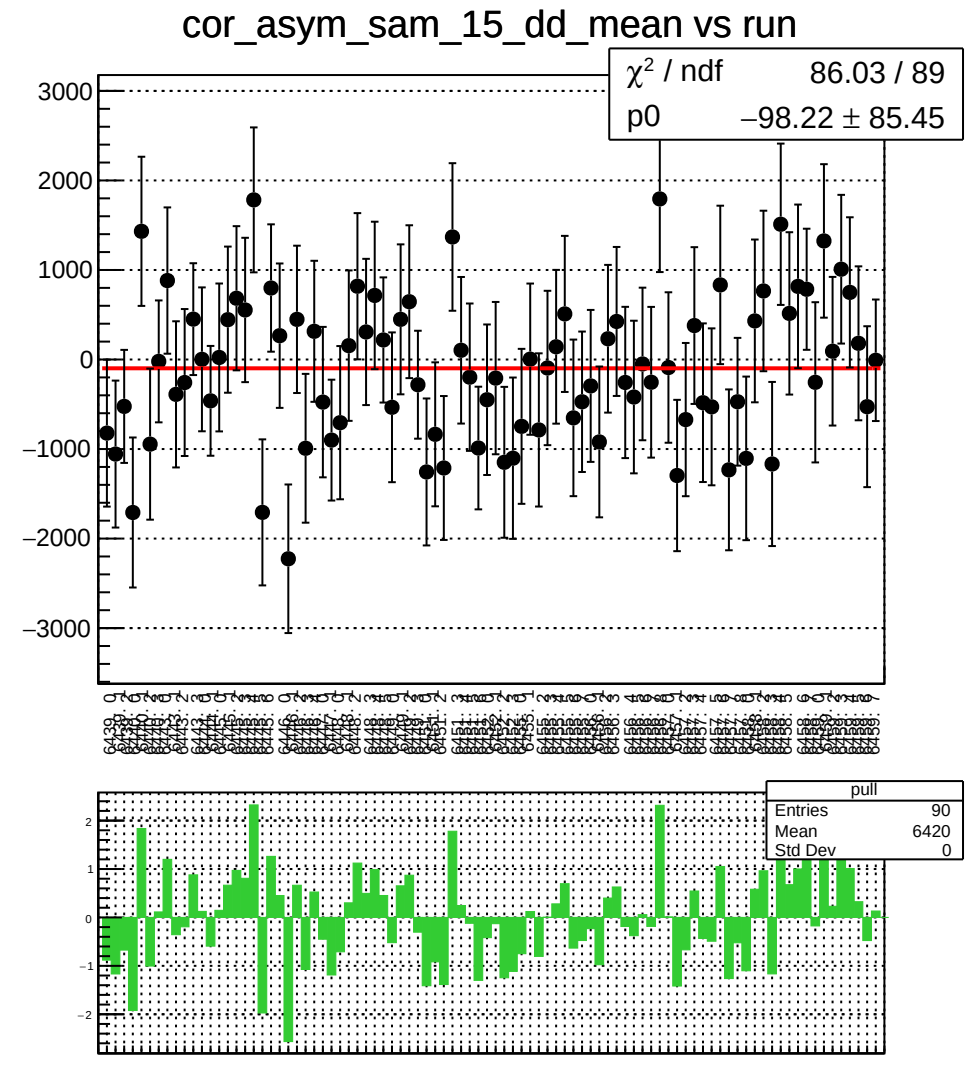

pull1D
Entries 90
Mean 0.0005196
Std Dev 0.9777

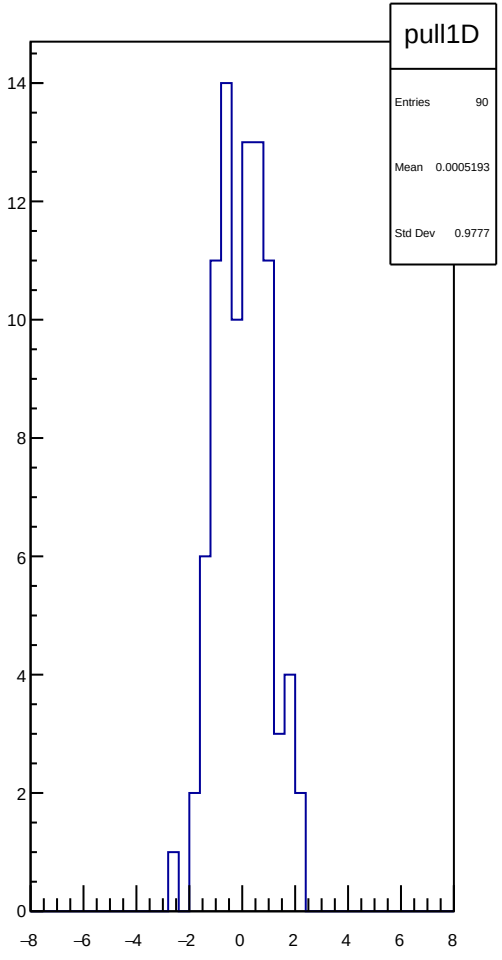

reg_asym_sam_15_dd_rms vs run
χ² / ndf 5473 / 89
p0 80.53 ± 0.06042
120
110
100
90
80

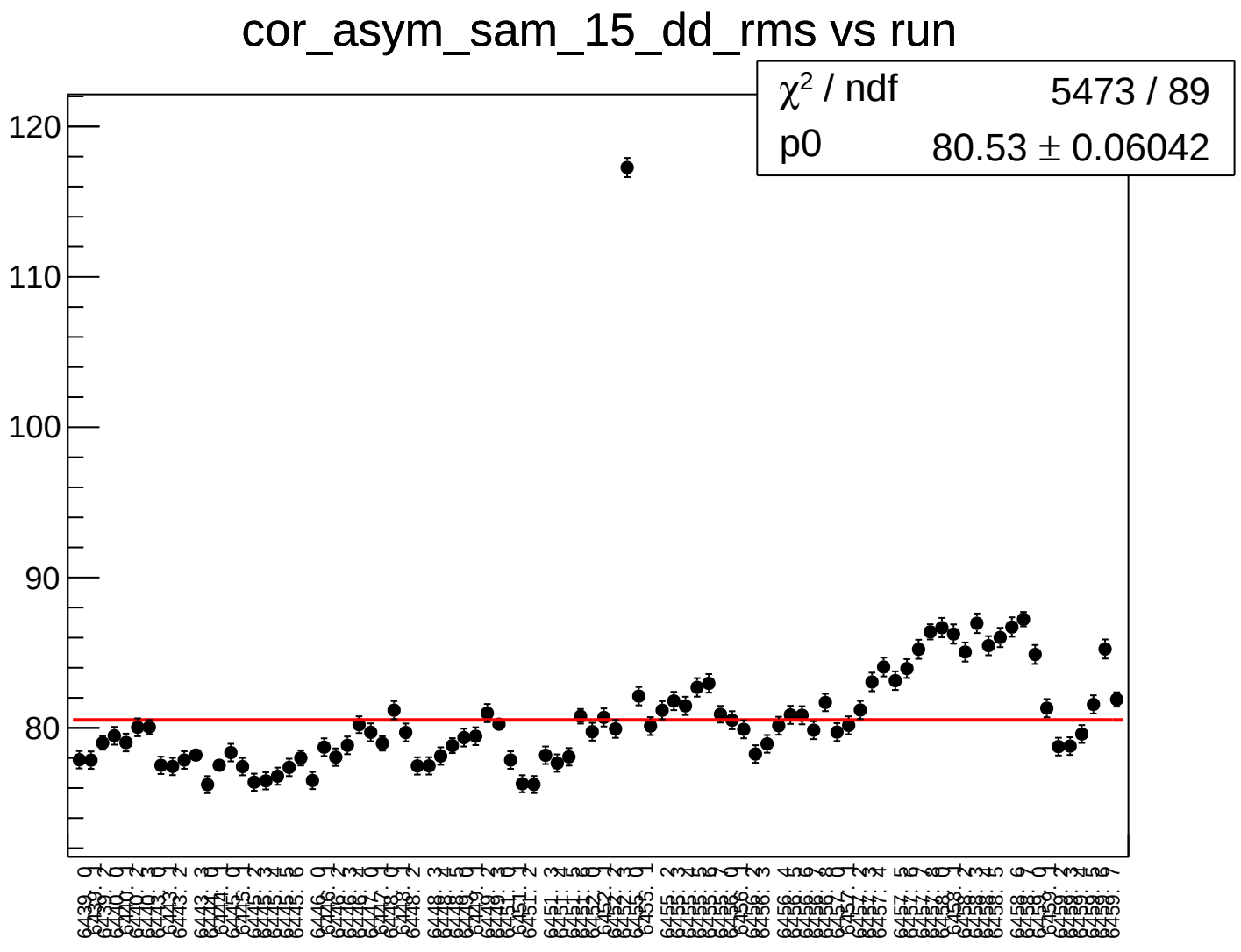

asym_sam_15_dd_reg_correction_mean vs run
χ² / ndf 92.42 / 89
p0 72.76 ± 535.5
pull
Entries 90
Mean −525.9
Std Dev 0

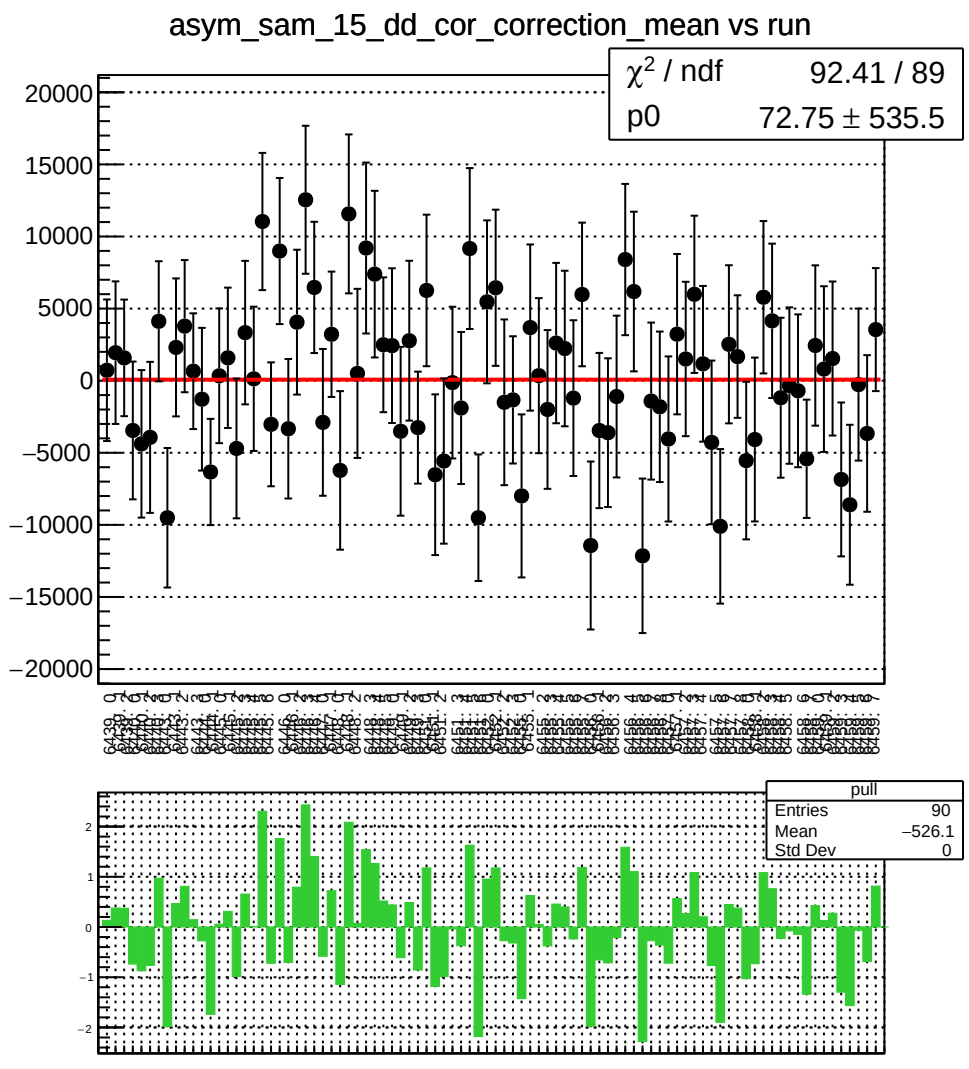

pull1D
Entries 90
Mean 0.006005
Std Dev 1.013

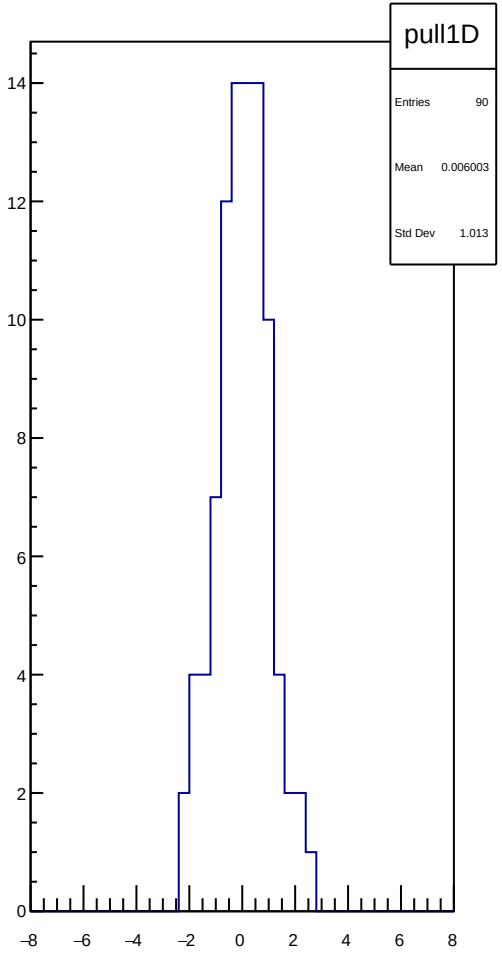

asym_sam_15_dd_reg_correction_rms vs run
χ² / ndf 6157 / 89
p0 504.6 ± 0.3786
580
560
540
520
500
480
460
440
420

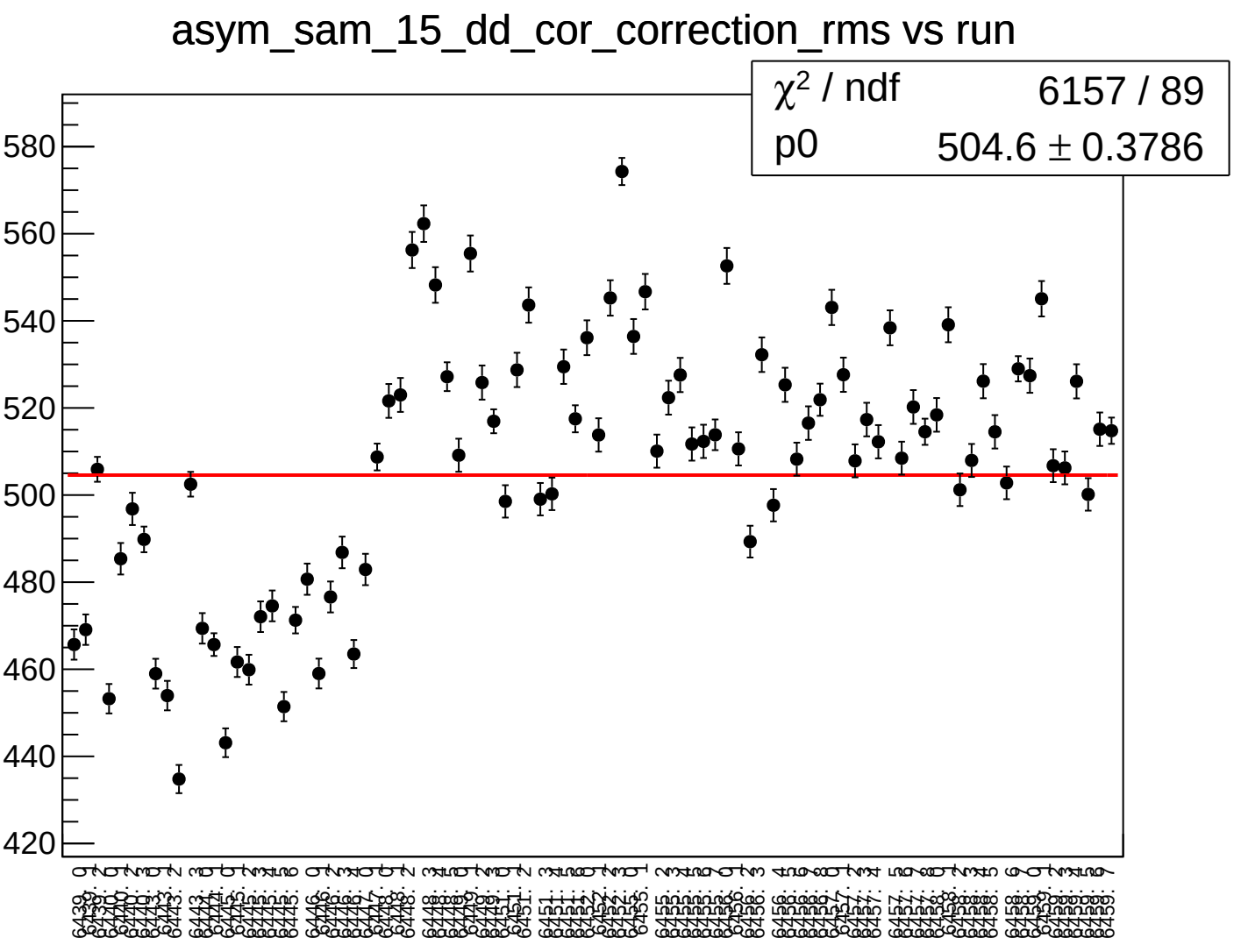

cor_asym_sam_15_dd_mean vs run
χ² / ndf 86.03 / 89
p0 −98.22 ± 85.45
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 90
Mean 6420
Std Dev 0
2
1
0
−1
−2

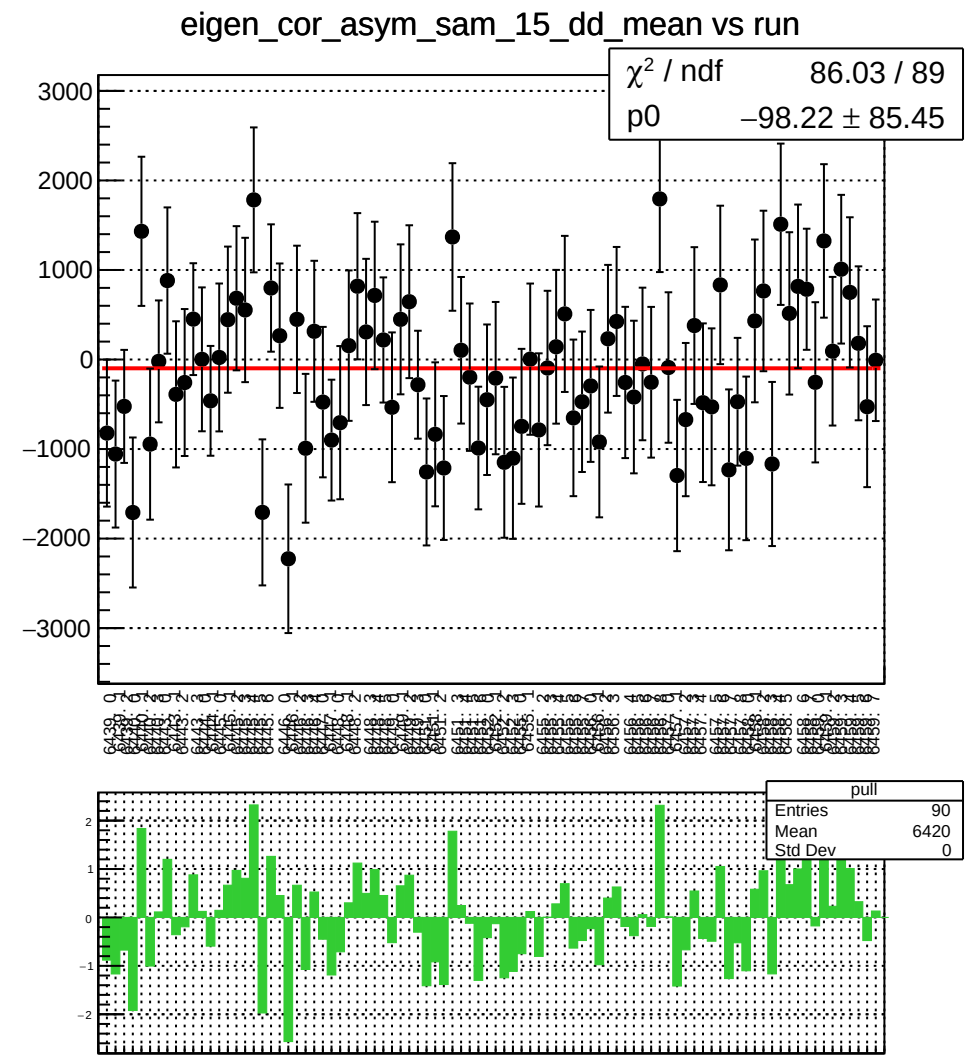

pull1D
Entries 90
Mean 0.0005193
Std Dev 0.9777
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

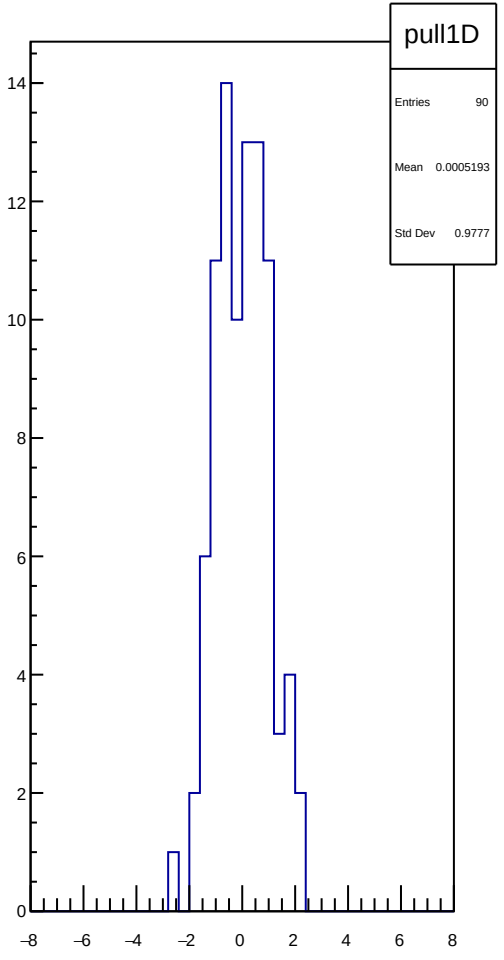

cor_asym_sam_15_dd_rms vs run
χ² / ndf 5473 / 89
p0 80.53 ± 0.06042
120
110
100
90
80

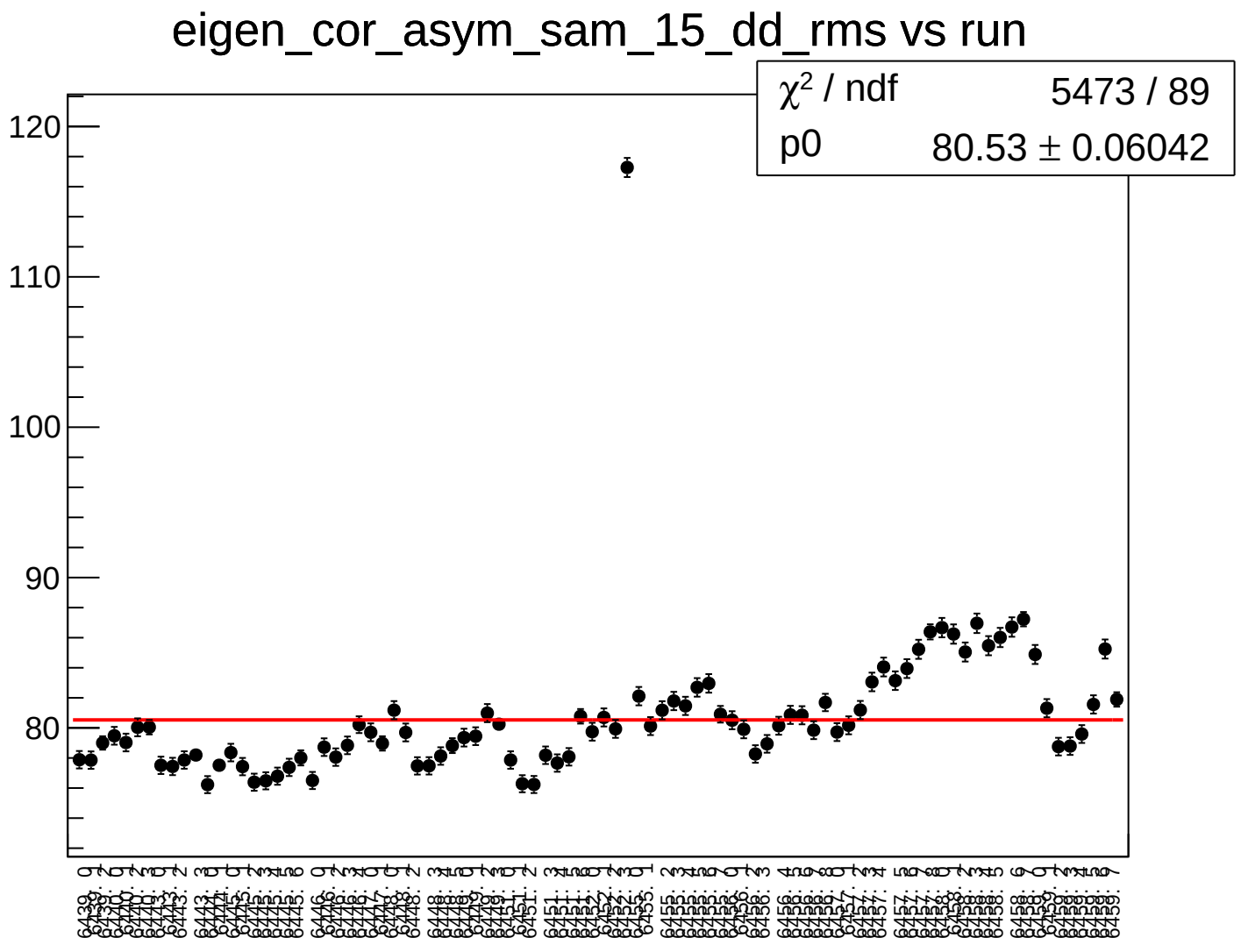

asym_sam_15_dd_cor_correction_mean vs run
χ² / ndf 92.41 / 89
p0 72.75 ± 535.5
pull
Entries 90
Mean −526.1
Std Dev 0

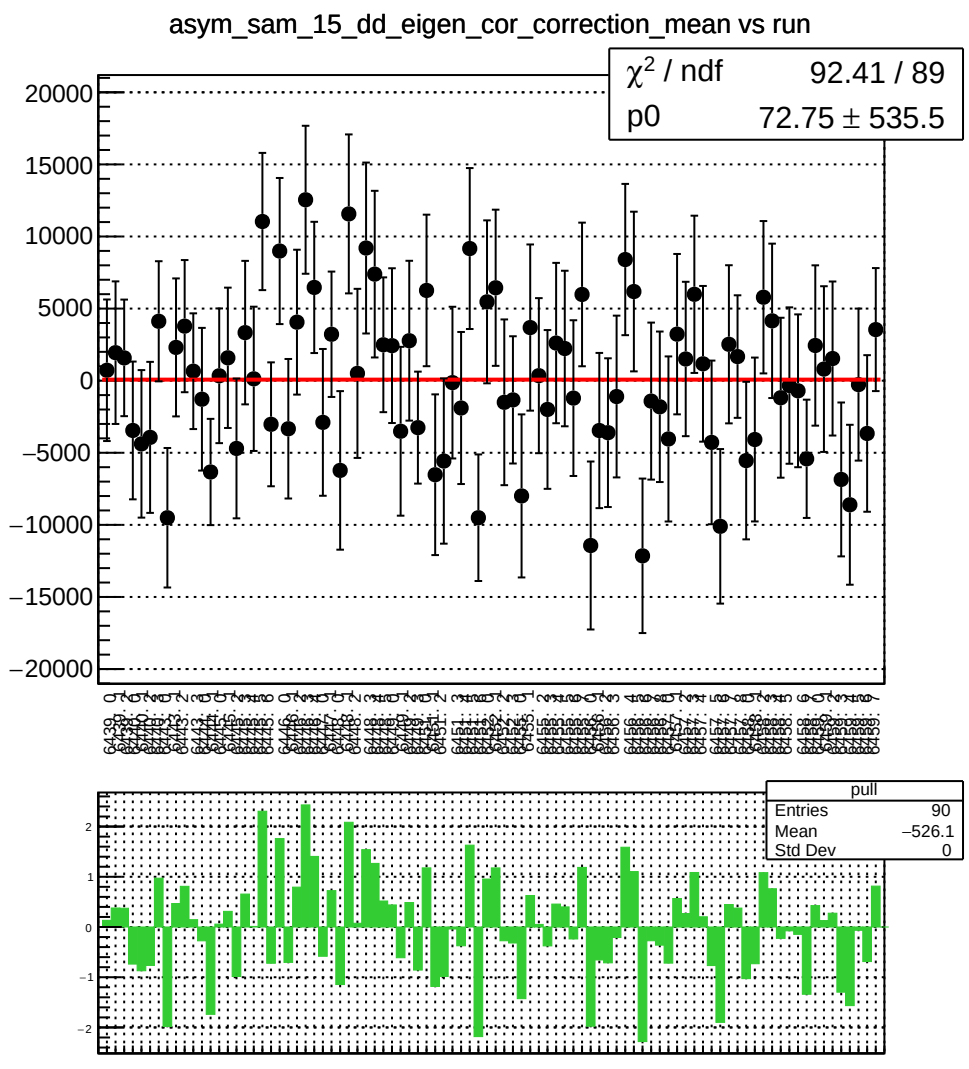

pull1D
Entries 90
Mean 0.006003
Std Dev 1.013

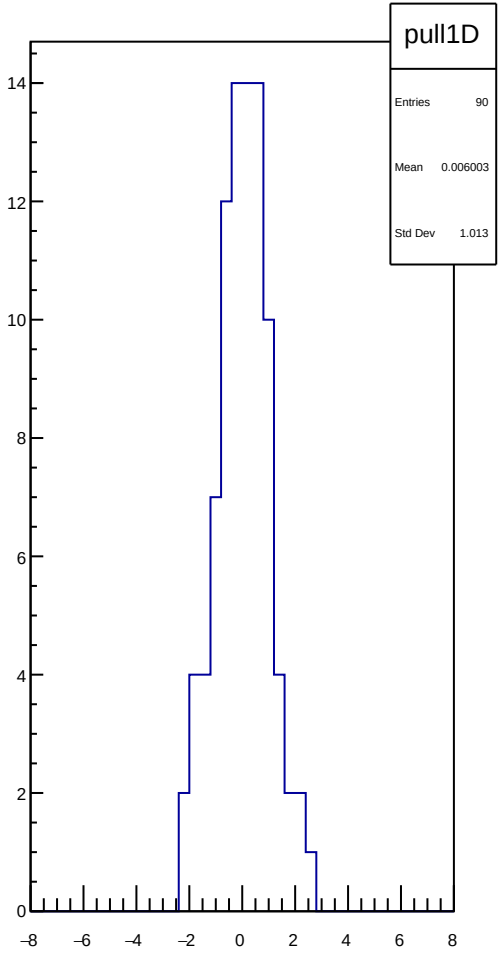

asym_sam_15_dd_cor_correction_rms vs run
χ² / ndf 6157 / 89
p0 504.6 ± 0.3786
580
560
540
520
500
480
460
440
420

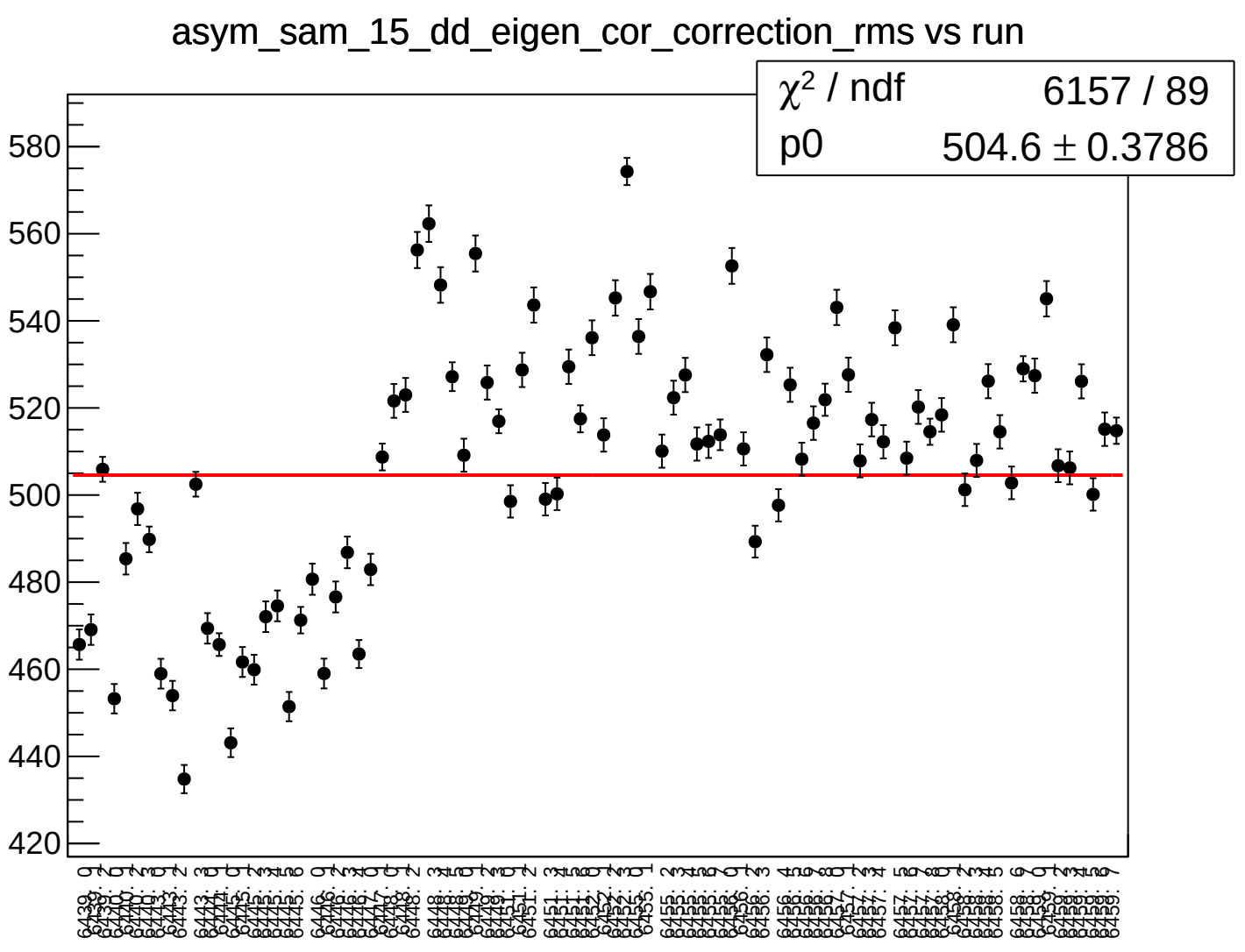

eigen_cor_asym_sam_15_dd_mean vs run
χ² / ndf 86.03 / 89
p0 −98.22 ± 85.45
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 90
Mean 6420
Std Dev 0
2
1
0
−1
−2

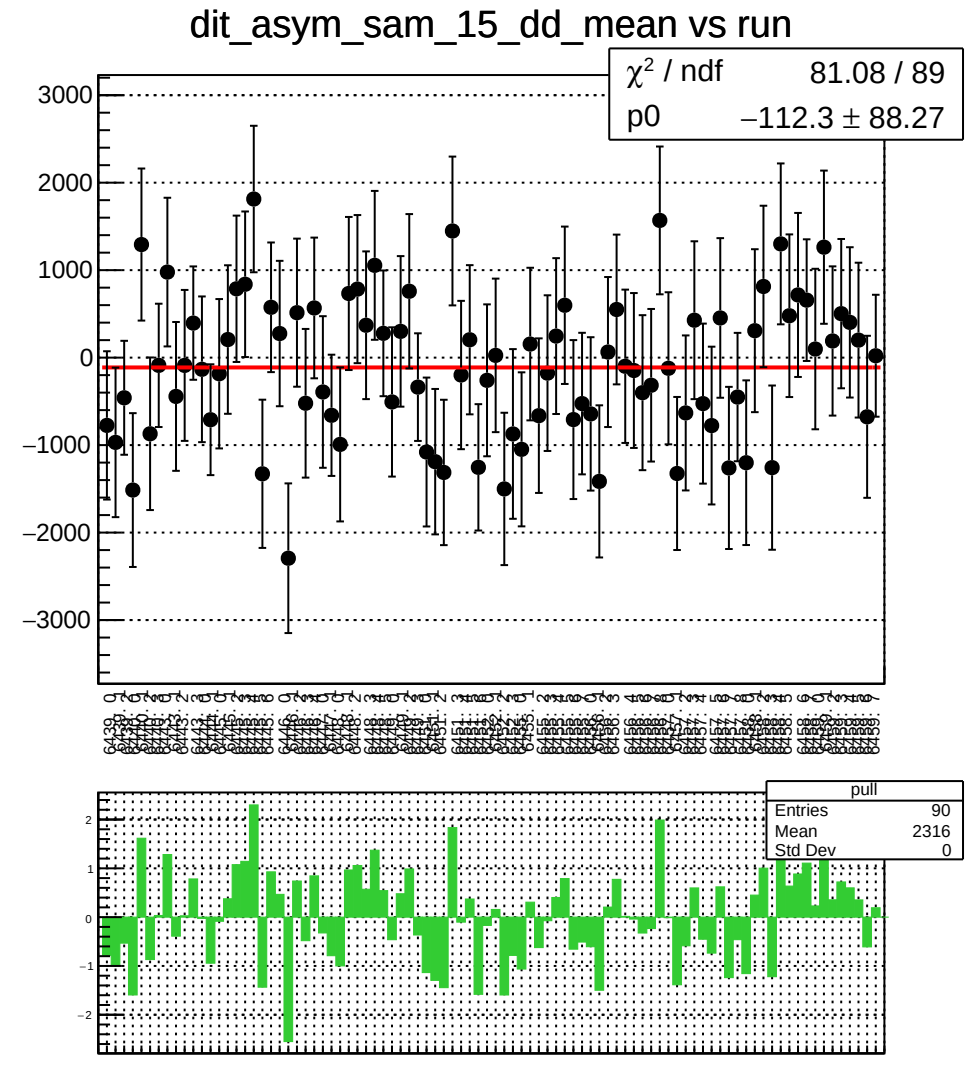

pull1D
Entries 90
Mean 0.0005193
Std Dev 0.9777
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

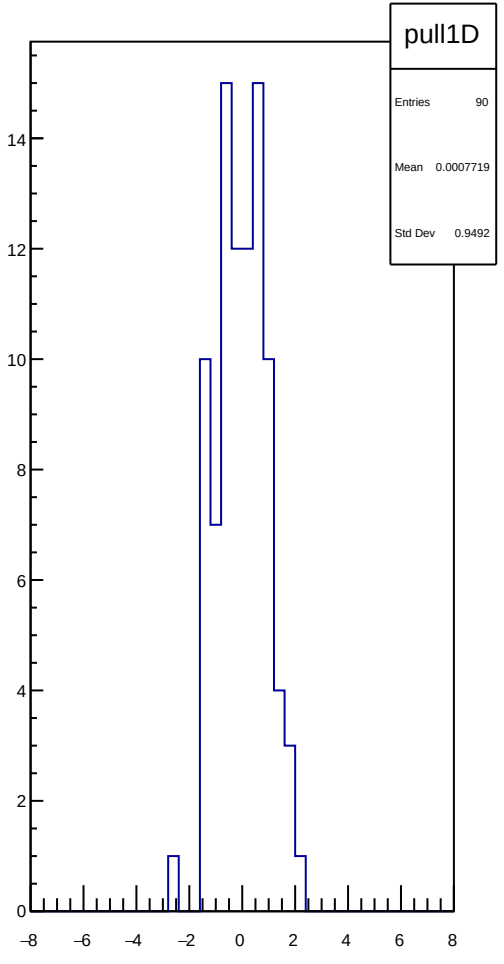

eigen_cor_asym_sam_15_dd_rms vs run
χ² / ndf 5473 / 89
p0 80.53 ± 0.06042
120
110
100
90
80

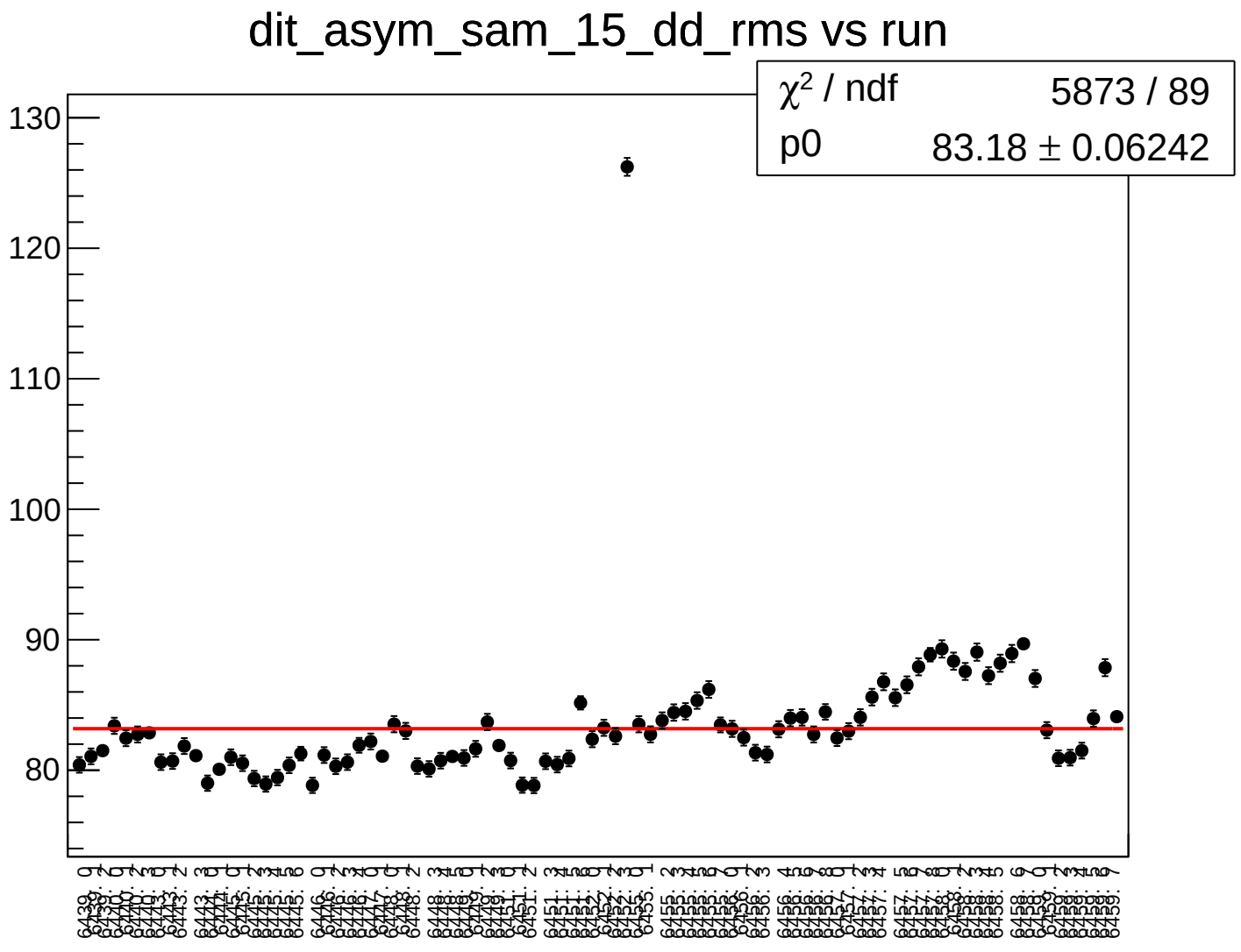

asym_sam_15_dd_eigen_cor_correction_mean vs run
χ² / ndf 92.41 / 89
p0 72.75 ± 535.5
pull
Entries 90
Mean −526.1
Std Dev 0

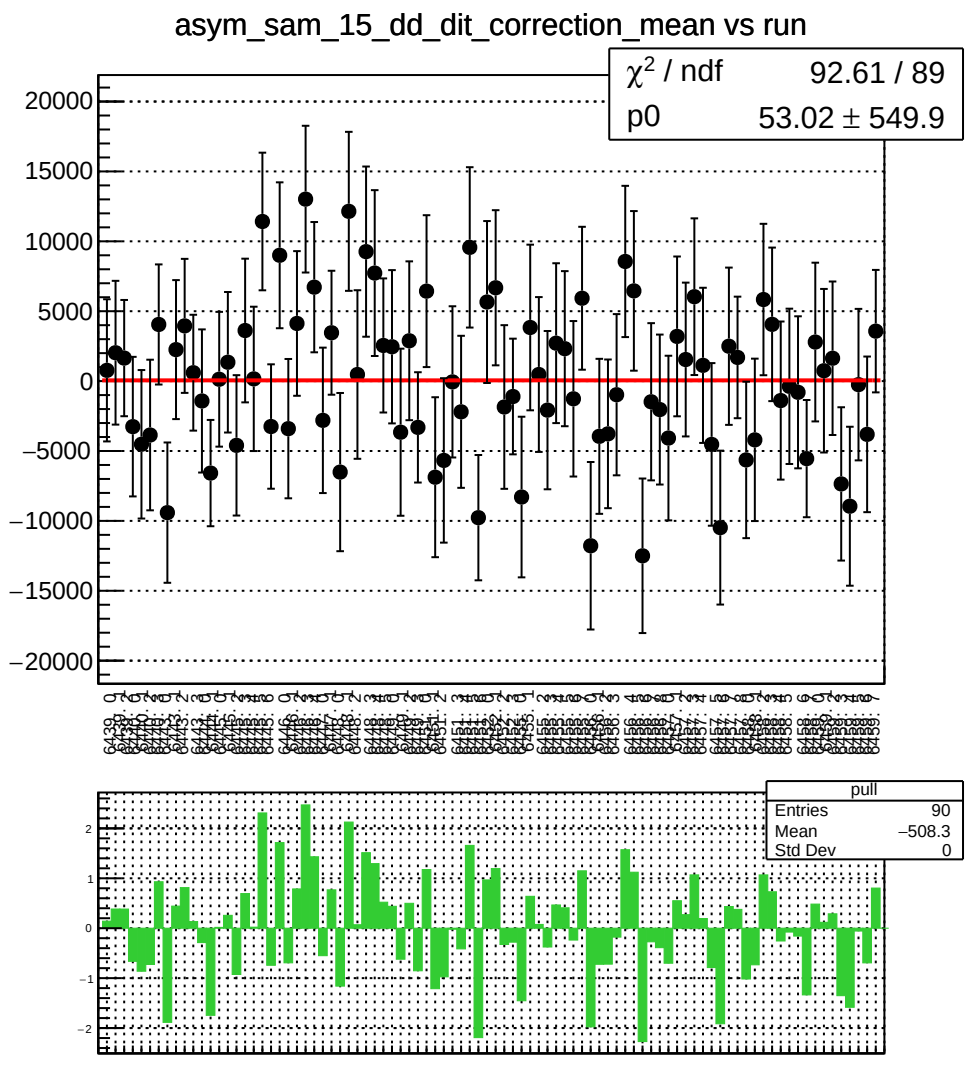

pull1D
Entries 90
Mean 0.006003
Std Dev 1.013

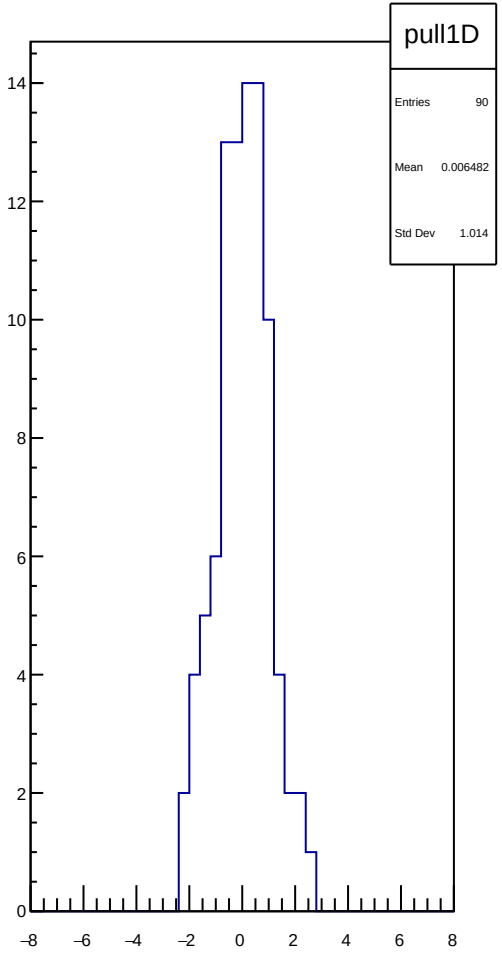

asym_sam_15_dd_eigen_cor_correction_rms vs run
χ² / ndf 6157 / 89
p0 504.6 ± 0.3786
580
560
540
520
500
480
460
440
420

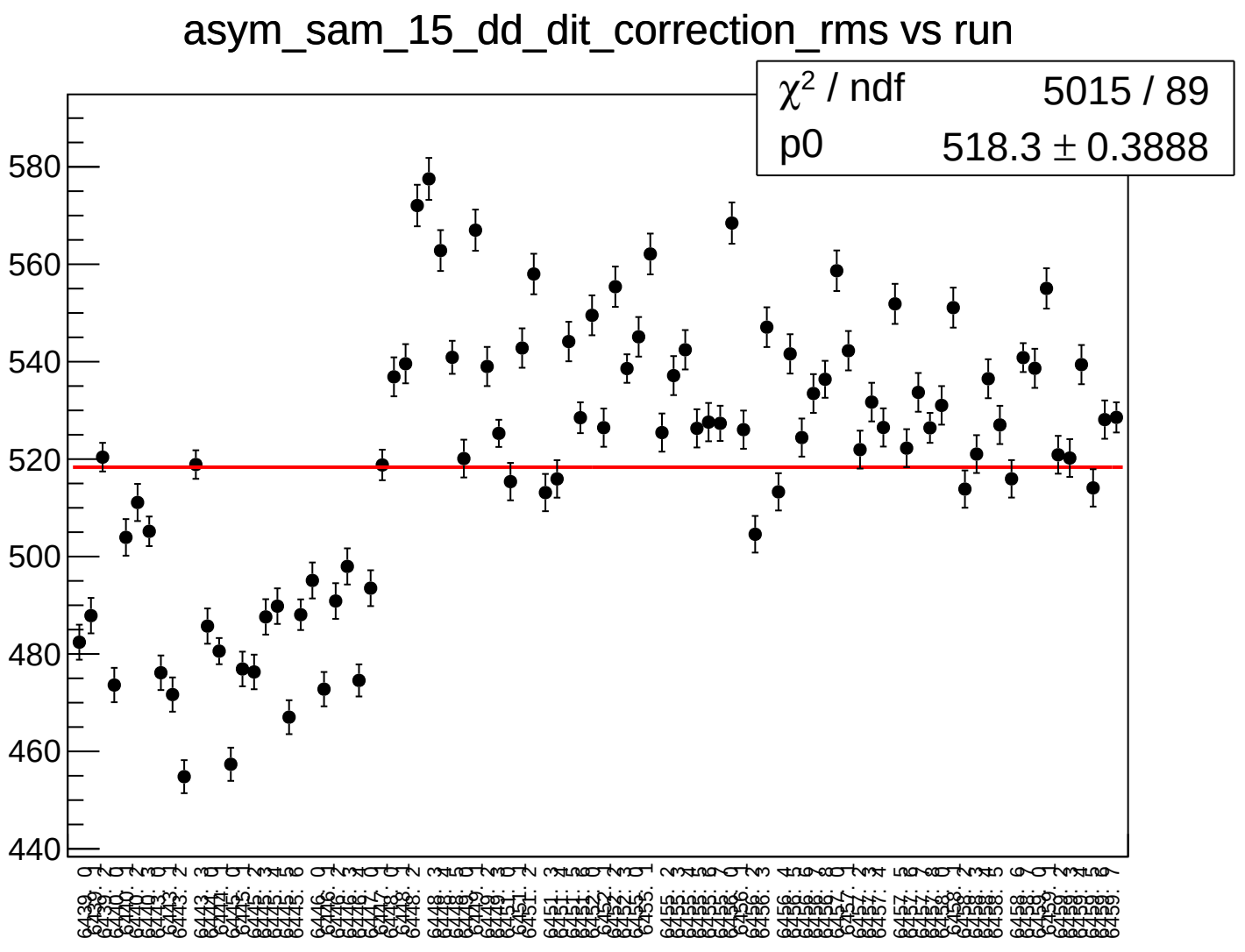

dit_asym_sam_15_dd_mean vs run
χ² / ndf 81.08 / 89
p0 −112.3 ± 88.27
pull
Entries 90
Mean 2316
Std Dev 0

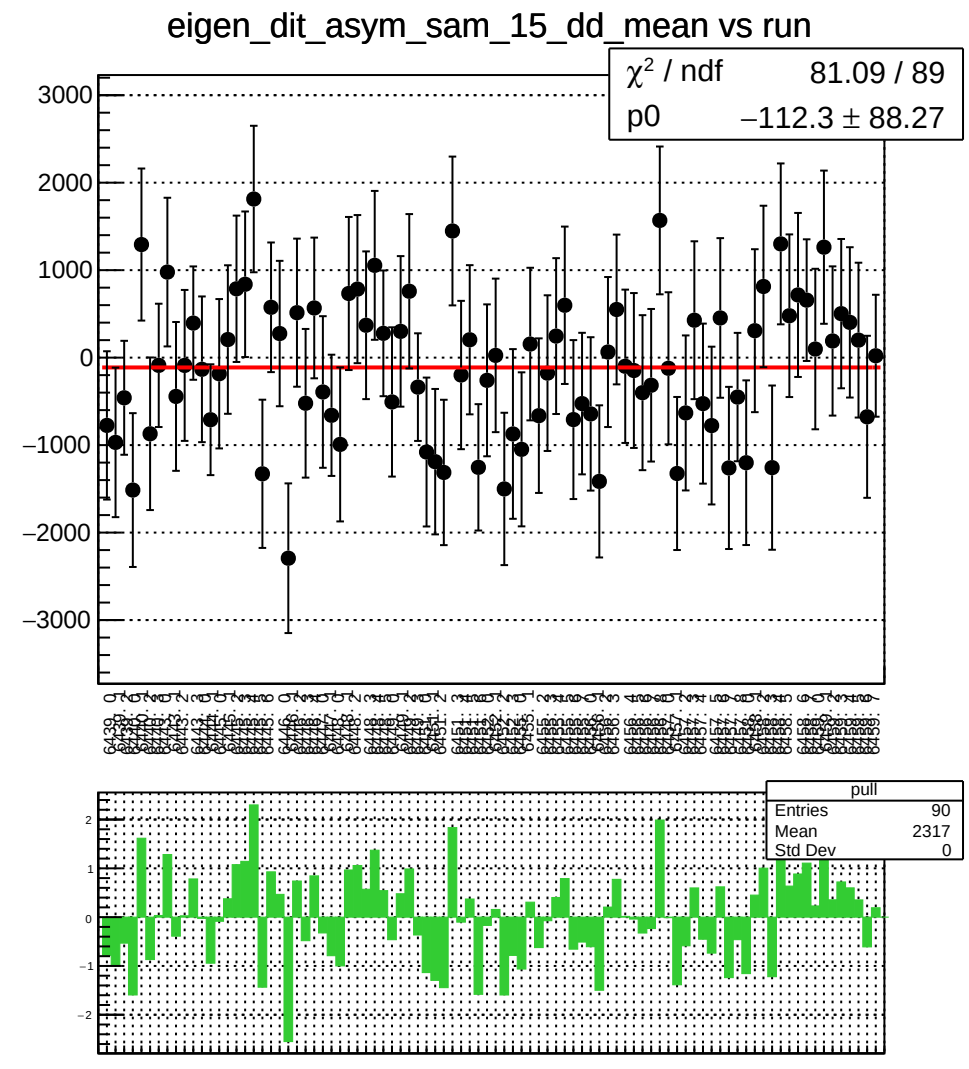

pull1D
Entries 90
Mean 0.0007719
Std Dev 0.9492

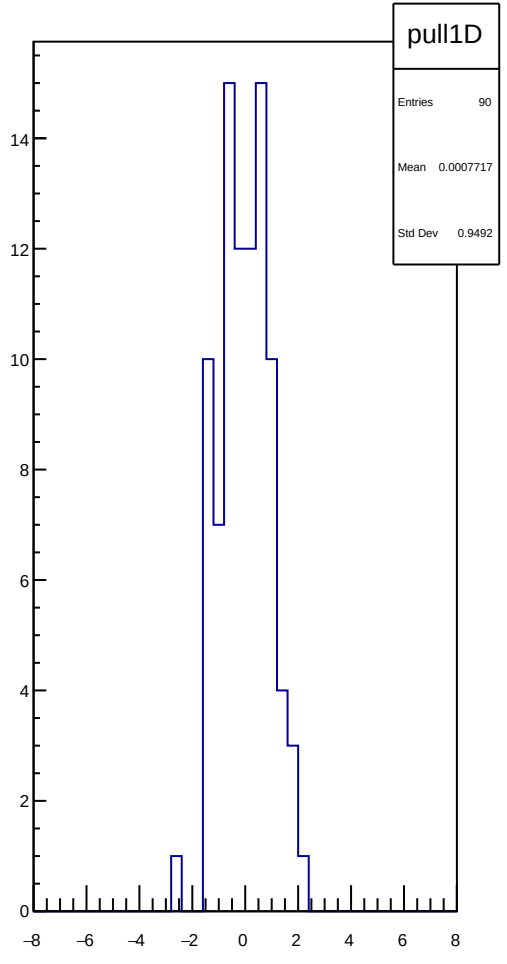

dit_asym_sam_15_dd_rms vs run
χ^2 / ndf 5873 / 89
p0 83.18 ± 0.06242
130
120
110
100
90
80

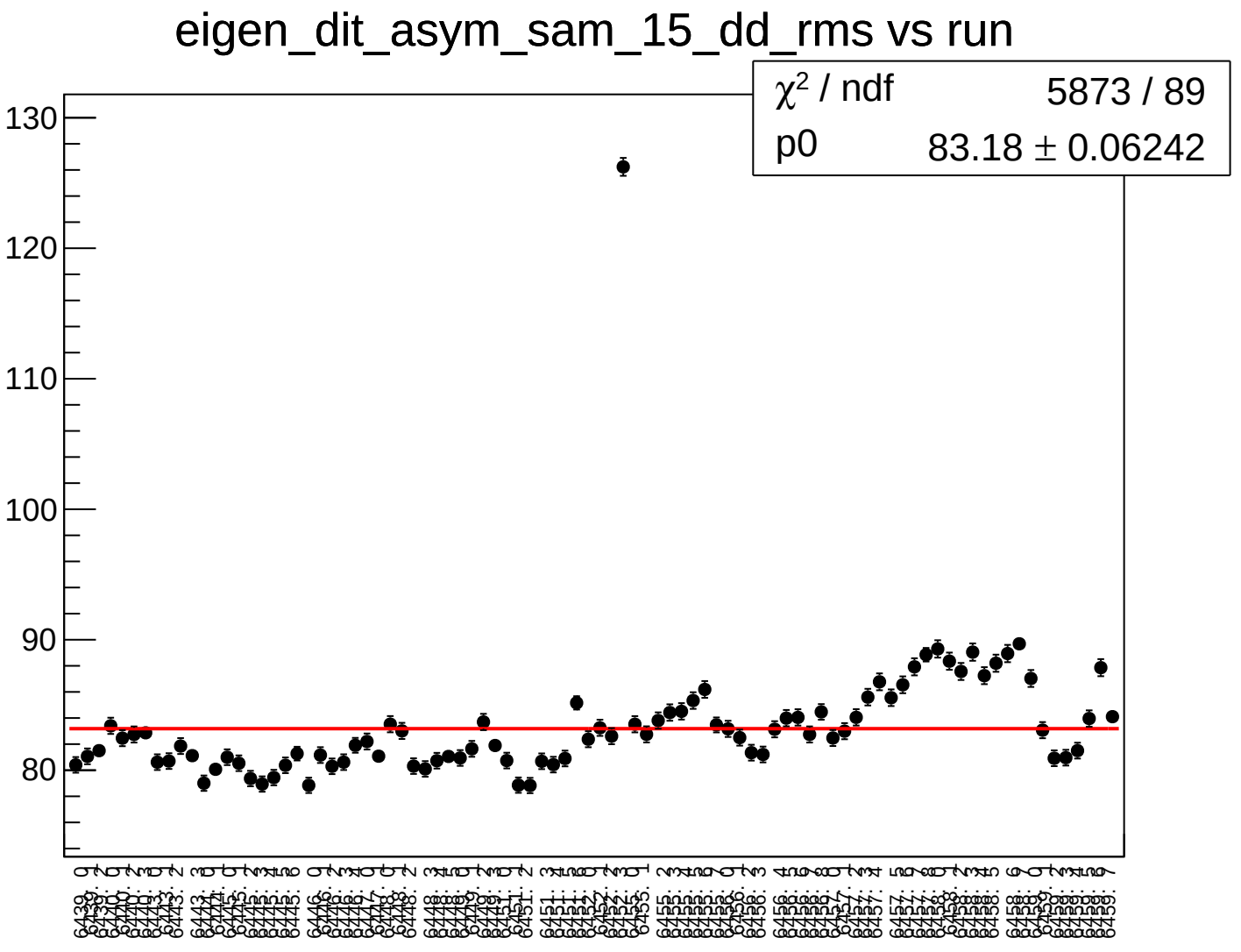

asym_sam_15_dd_dit_correction_mean vs run
χ² / ndf 92.61 / 89
p0 53.02 ± 549.9
pull
Entries 90
Mean −508.3
Std Dev 0

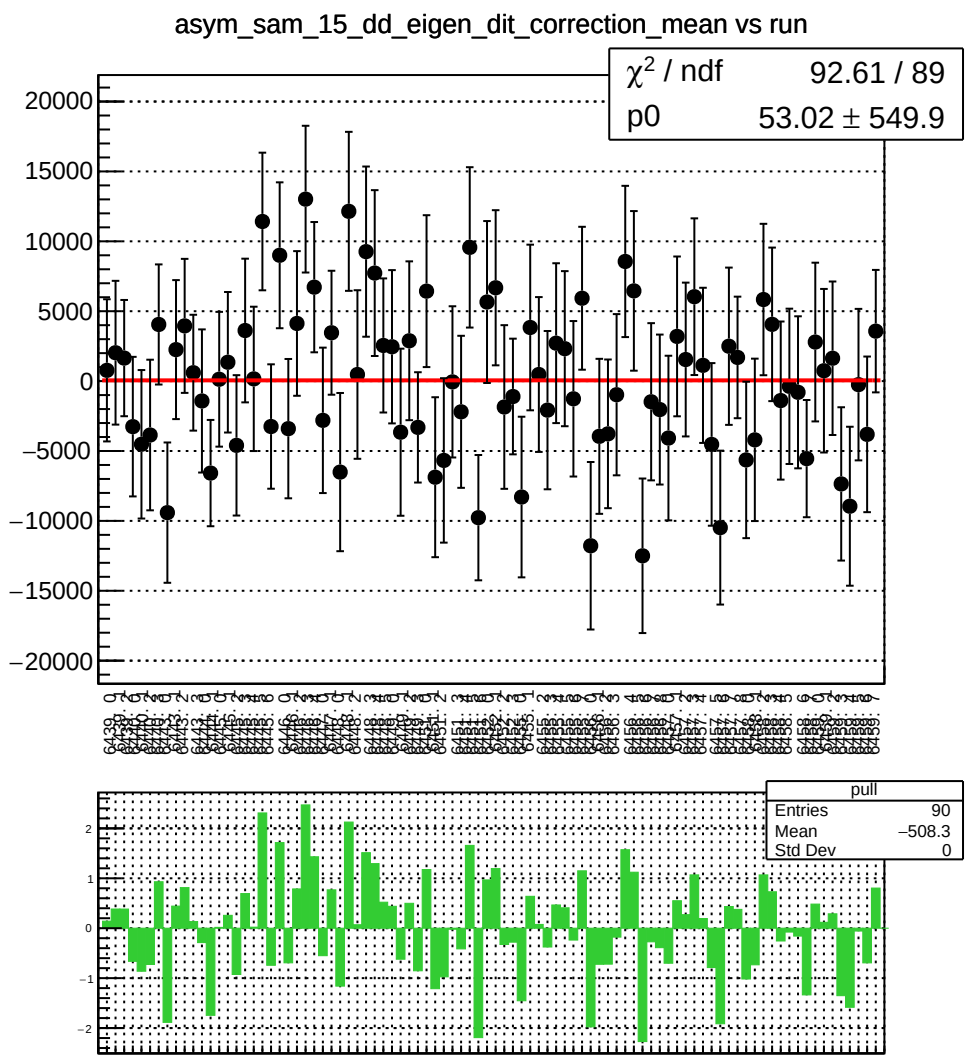

pull1D
Entries 90
Mean 0.006482
Std Dev 1.014

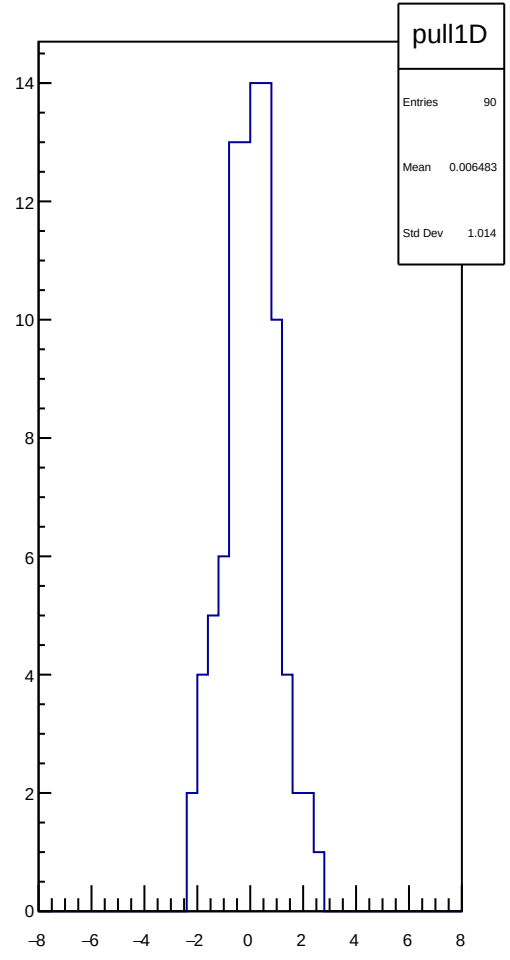

asym_sam_15_dd_dit_correction_rms vs run
χ² / ndf 5015 / 89
p0 518.3 ± 0.3888
580
560
540
520
500
480
460
440

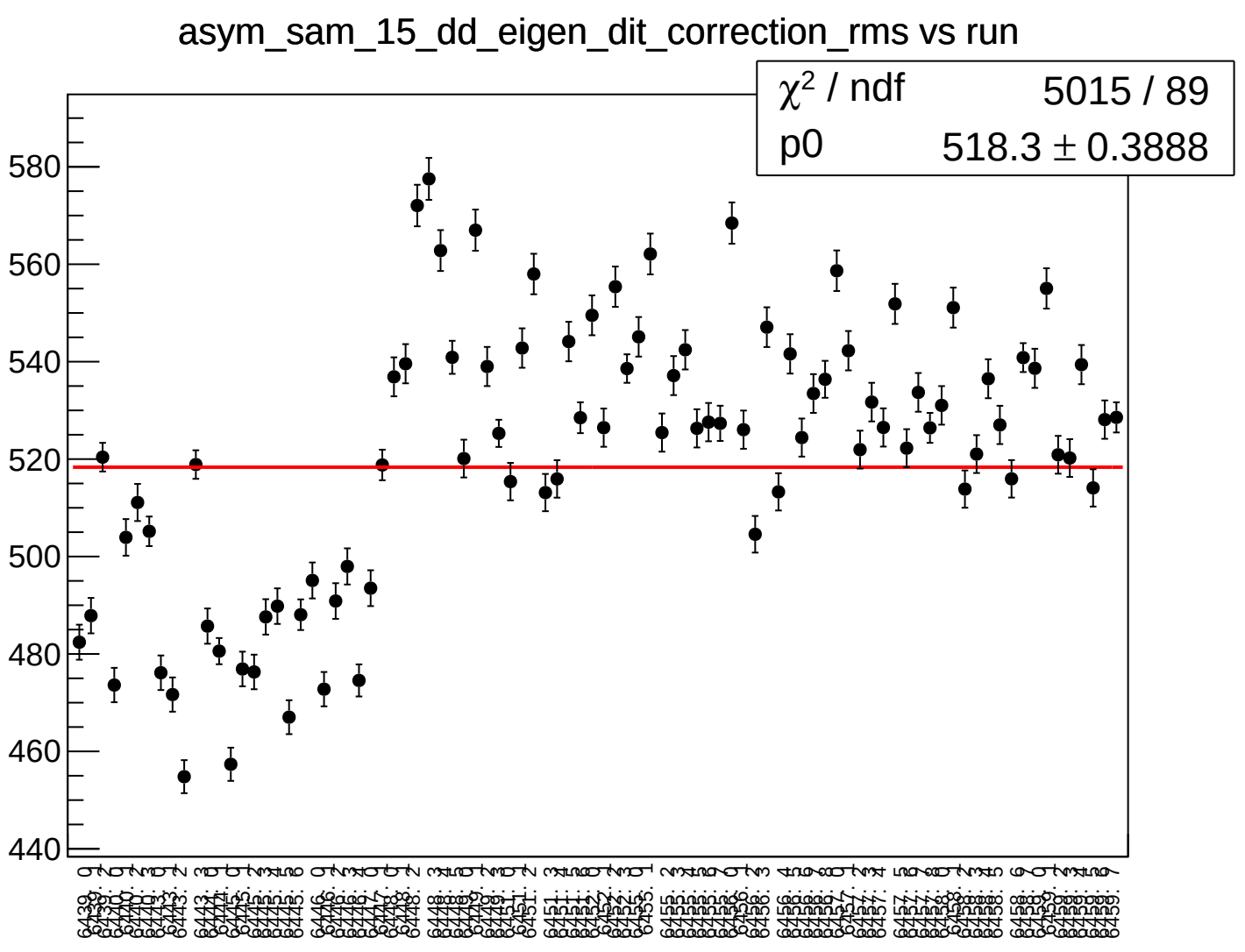

eigen_dit_asym_sam_15_dd_mean vs run
χ² / ndf 81.09 / 89
p0 −112.3 ± 88.27
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 90
Mean 2317
Std Dev 0
2
1
0
−1
−2

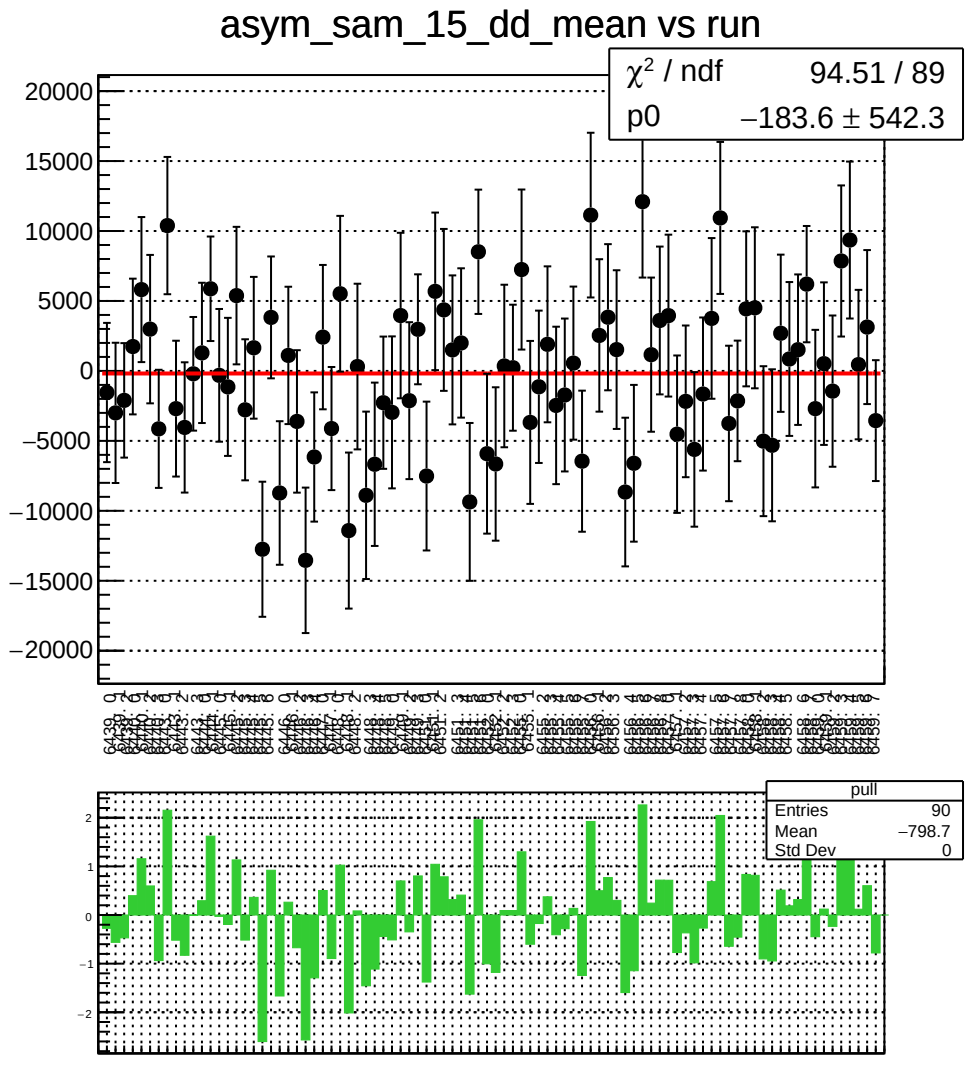

pull1D
Entries 90
Mean 0.0007717
Std Dev 0.9492
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

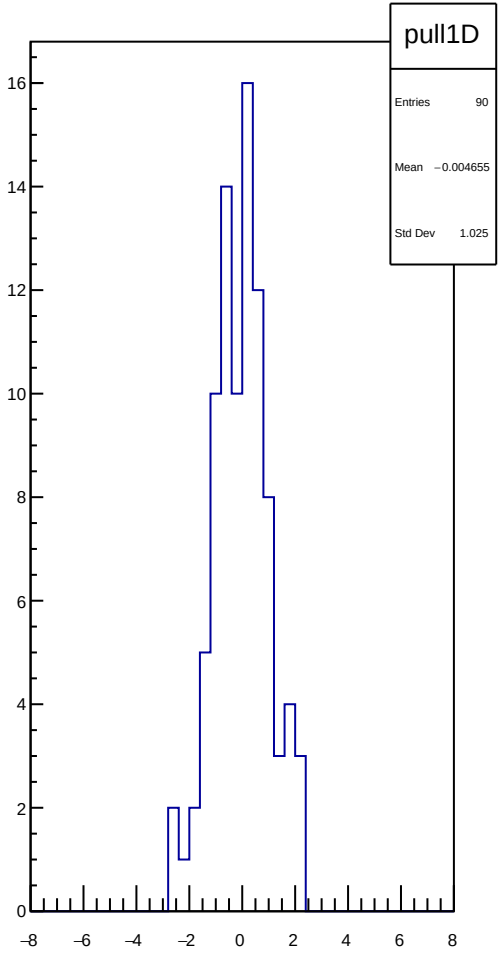

eigen_dit_asym_sam_15_dd_rms vs run
χ² / ndf 5873 / 89
p0 83.18 ± 0.06242
130
120
110
100
90
80

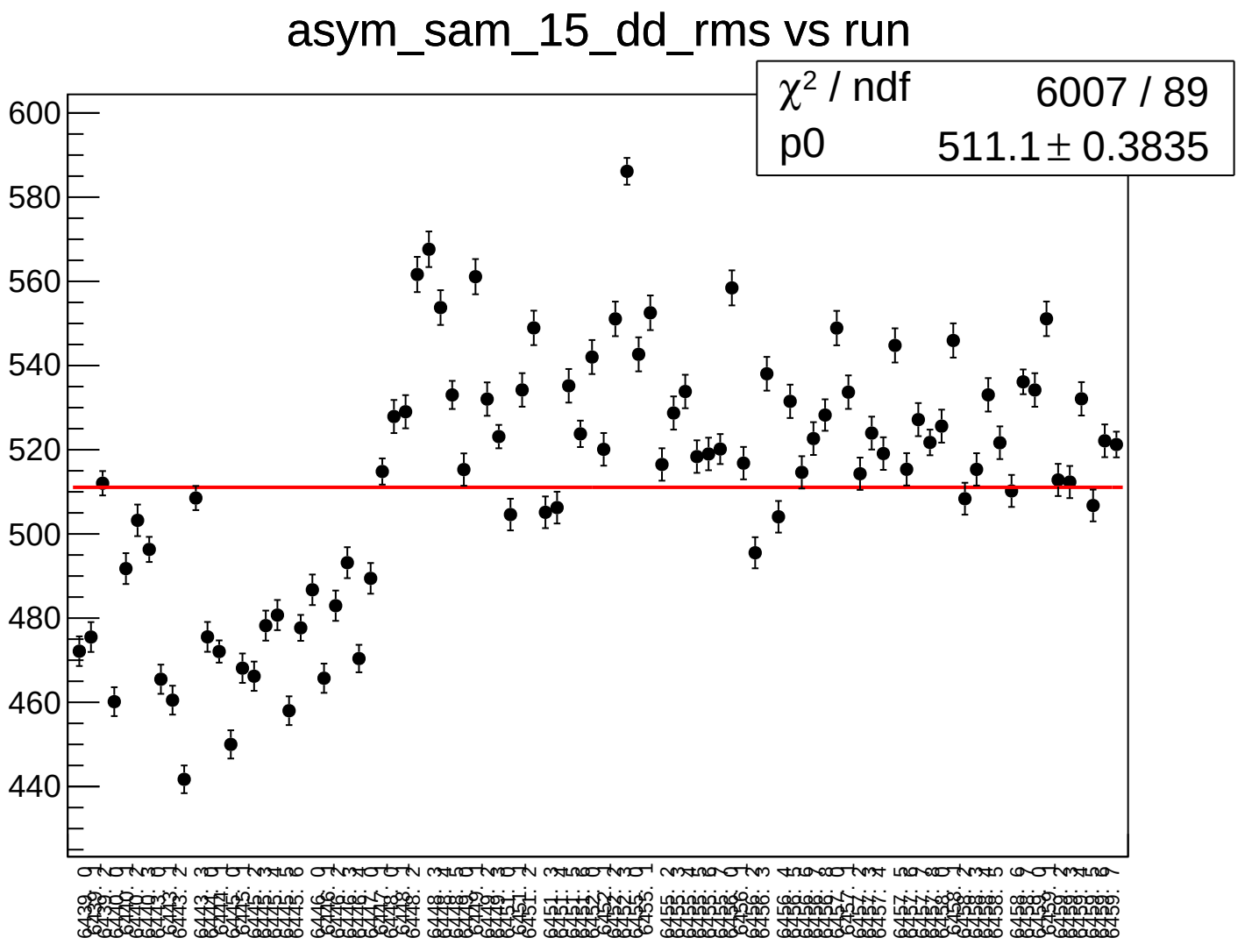

asym_sam_15_dd_eigen_dit_correction_mean vs run
χ² / ndf 92.61 / 89
p0 53.02 ± 549.9
pull
Entries 90
Mean −508.3
Std Dev 0

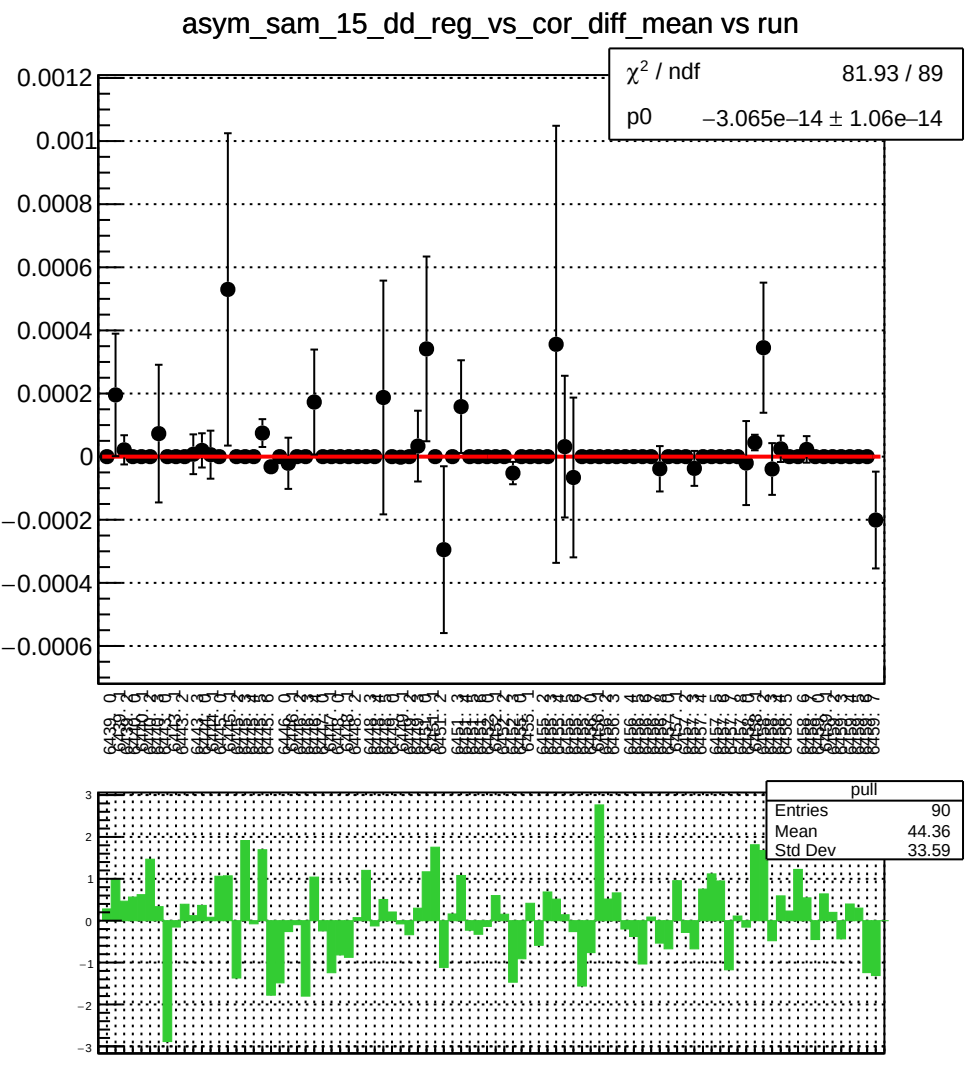

pull1D
Entries 90
Mean 0.006483
Std Dev 1.014

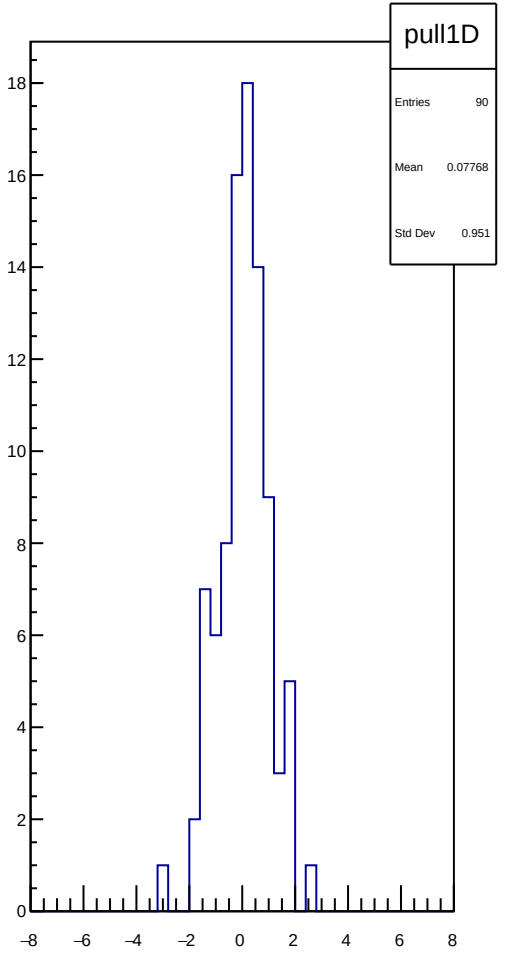

asym_sam_15_dd_eigen_dit_correction_rms vs run
χ² / ndf 5015 / 89
p0 518.3 ± 0.3888
580
560
540
520
500
480
460
440

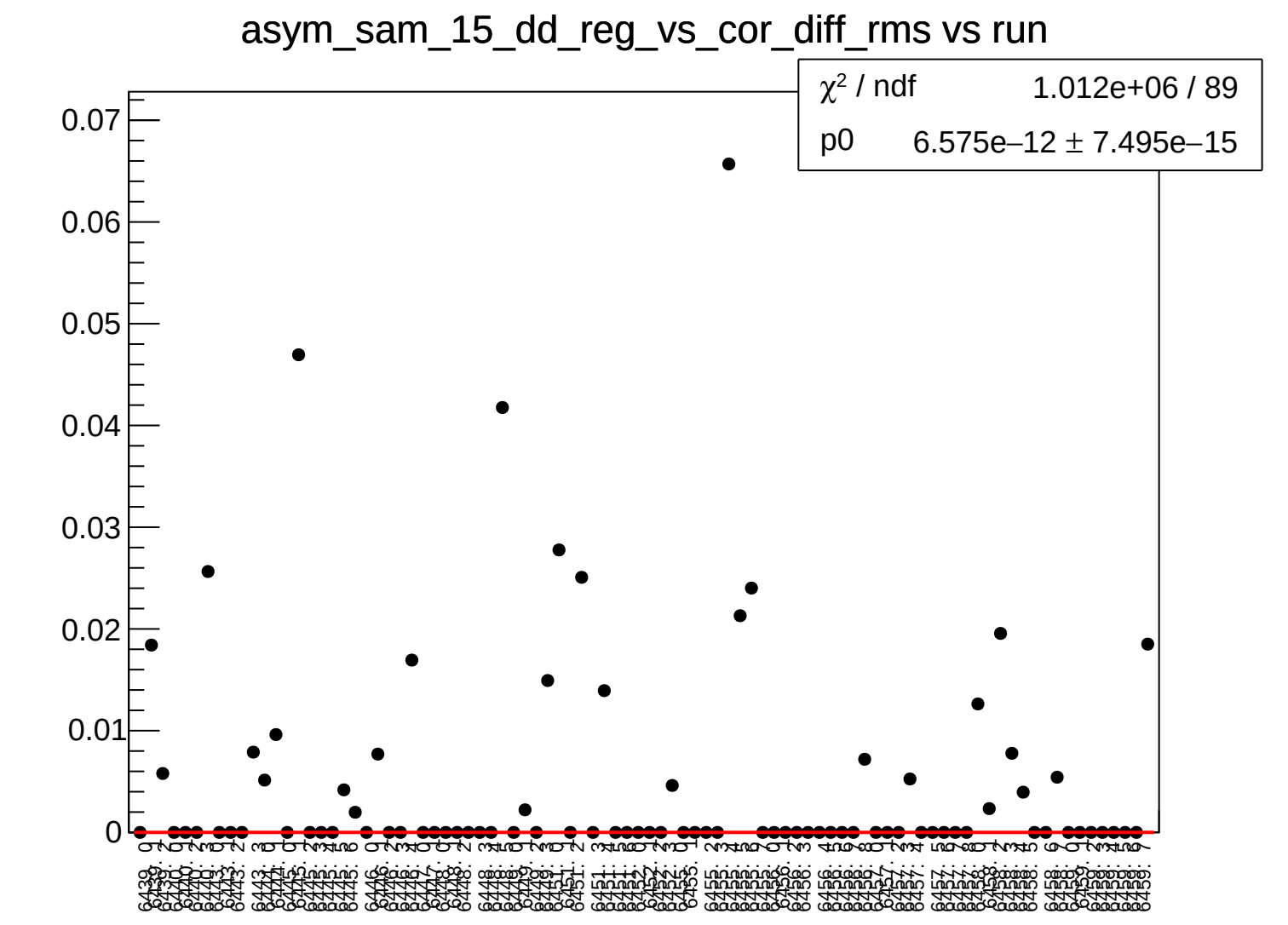

asym_sam_15_dd_mean vs run
χ² / ndf 94.51 / 89
p0 −183.6 ± 542.3
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 90
Mean −798.7
Std Dev 0
2
1
0
−1
−2

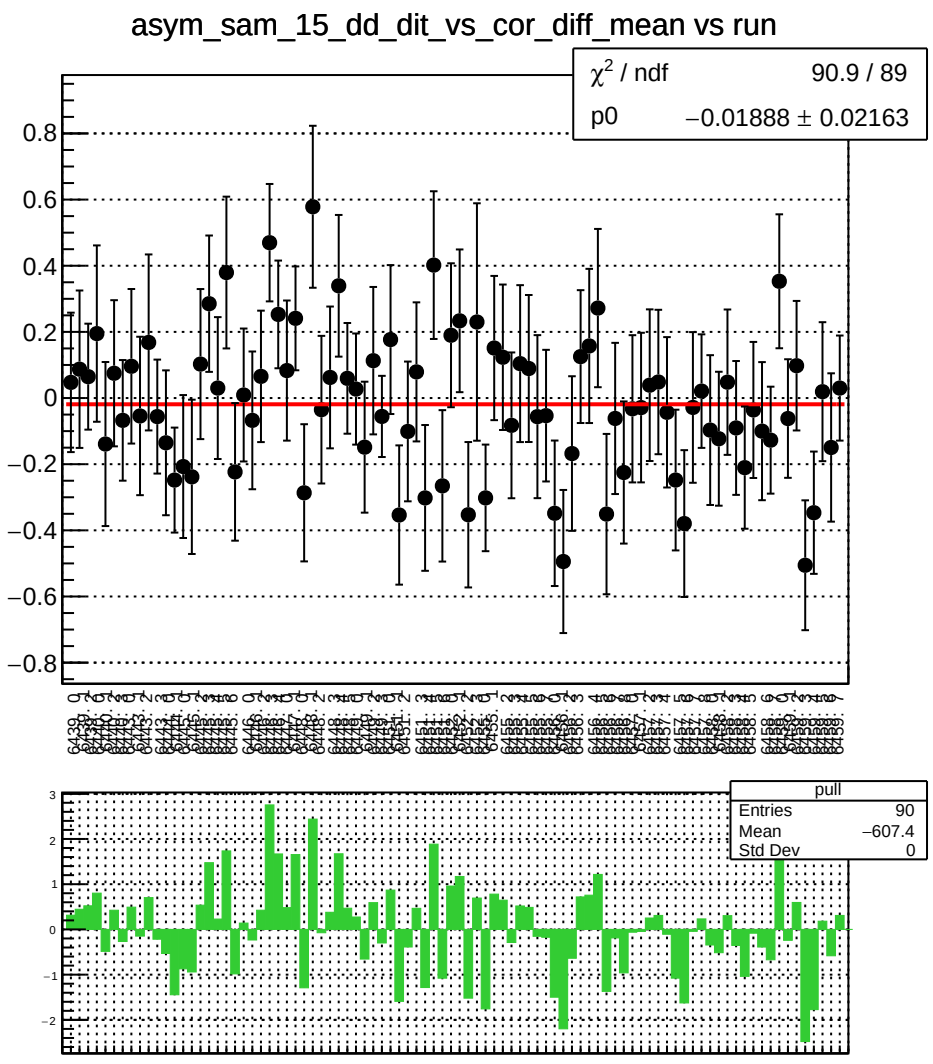

pull1D
Entries 90
Mean −0.004655
Std Dev 1.025
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

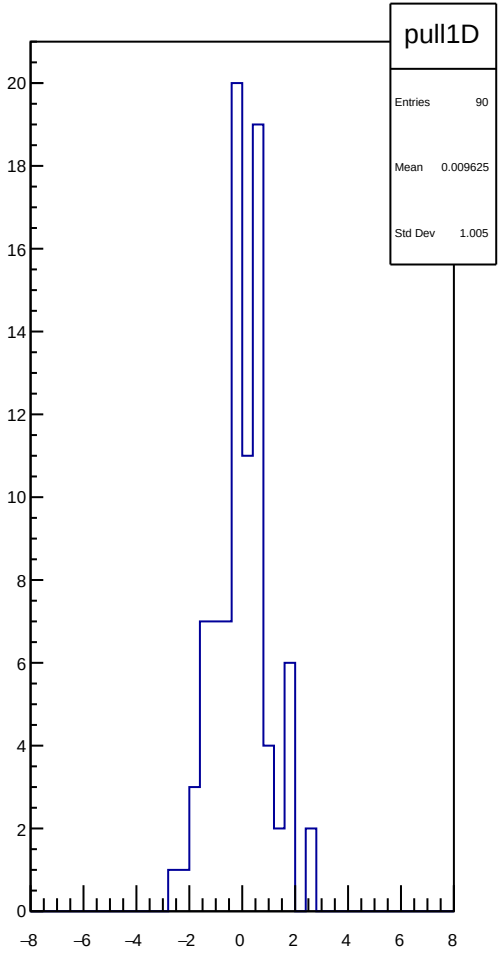

asym_sam_15_dd_rms vs run
χ² / ndf 6007 / 89
p0 511.1 ± 0.3835
600
580
560
540
520
500
480
460
440

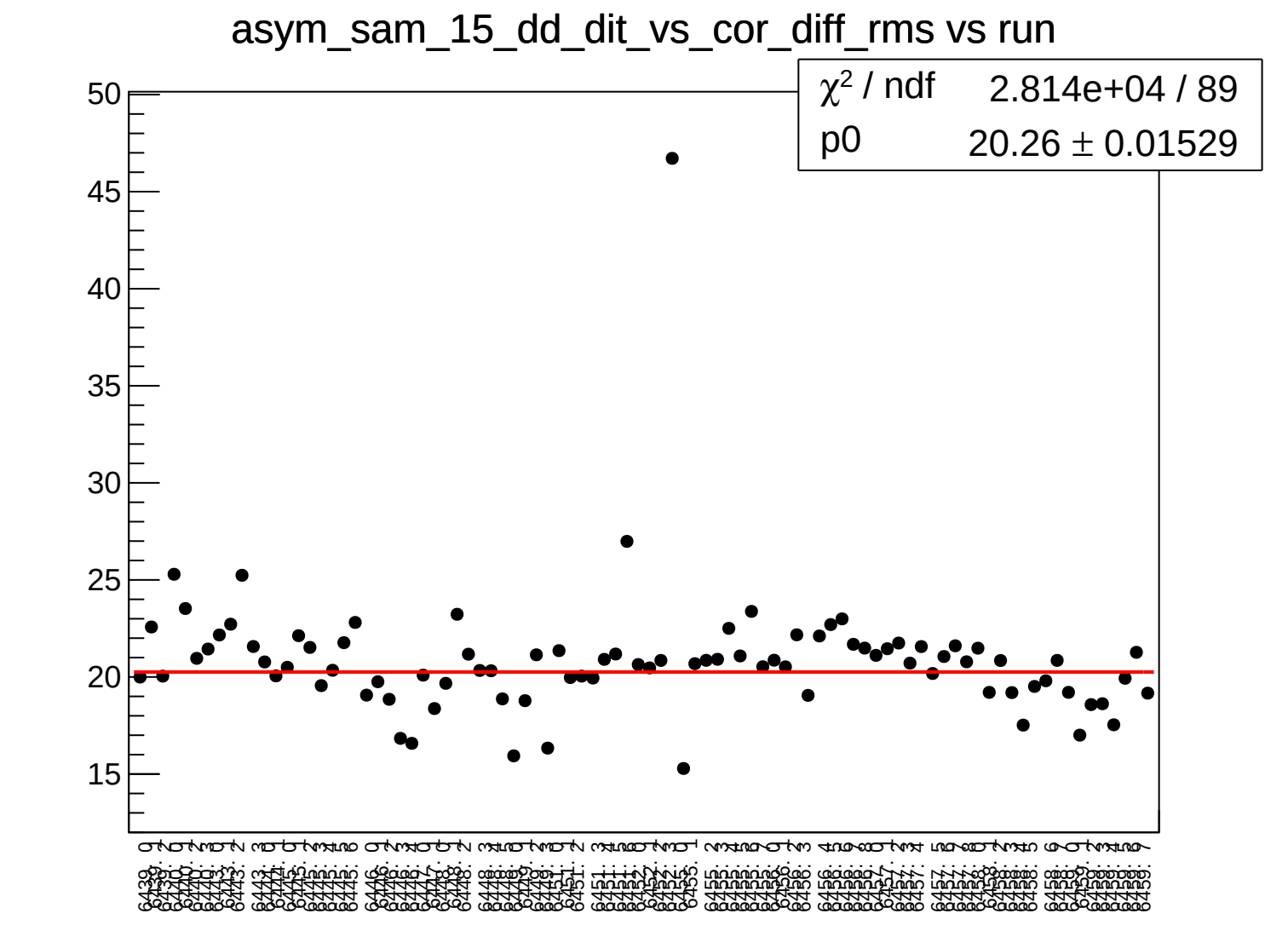

asym_sam_15_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 81.93 / 89
p0 −3.065e−14 ± 1.06e−14
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
pull
Entries 90
Mean 44.36
Std Dev 33.59
3
2
1
0
−1
−2
−3

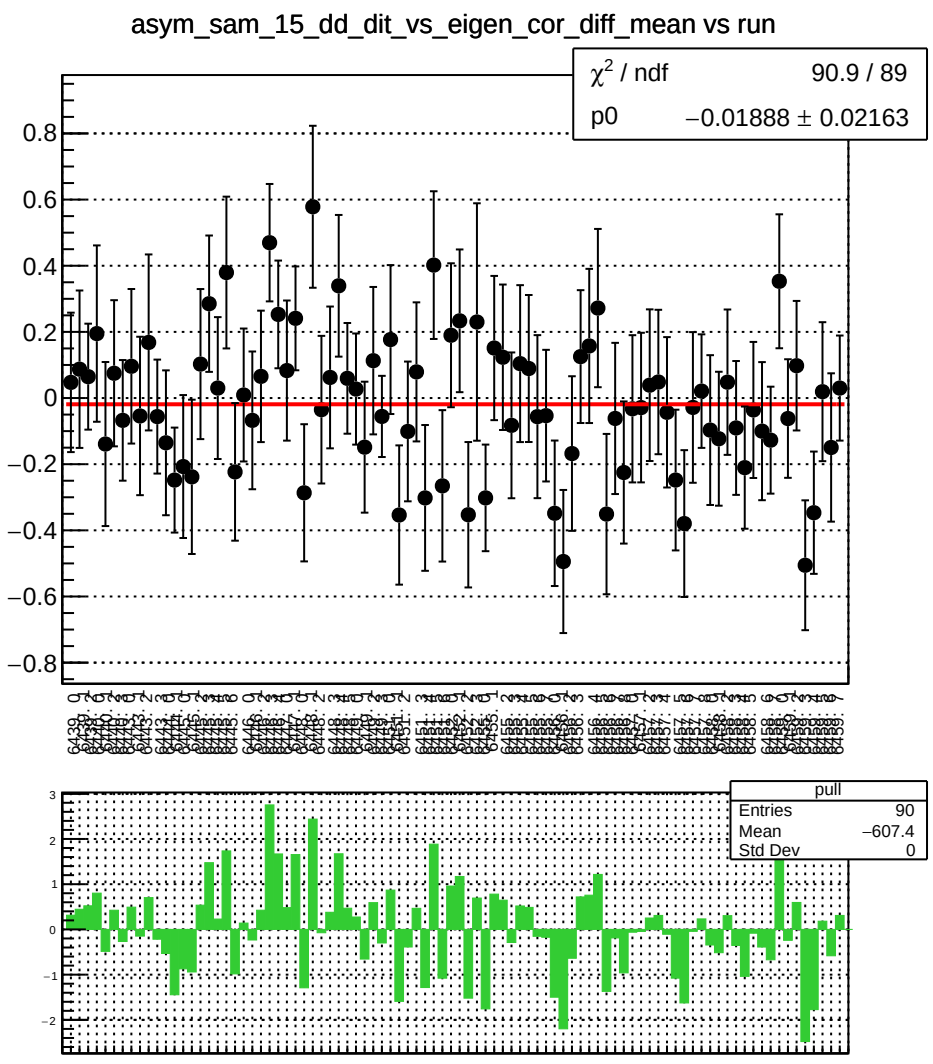

pull1D
Entries 90
Mean 0.07768
Std Dev 0.951
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

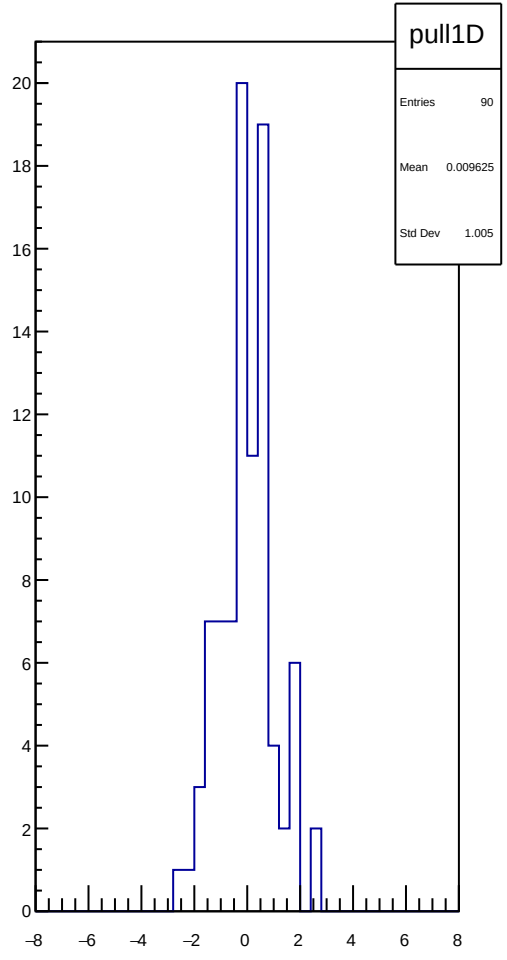

asym_sam_15_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.012e+06 / 89
p0 6.575e−12 ± 7.495e−15
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

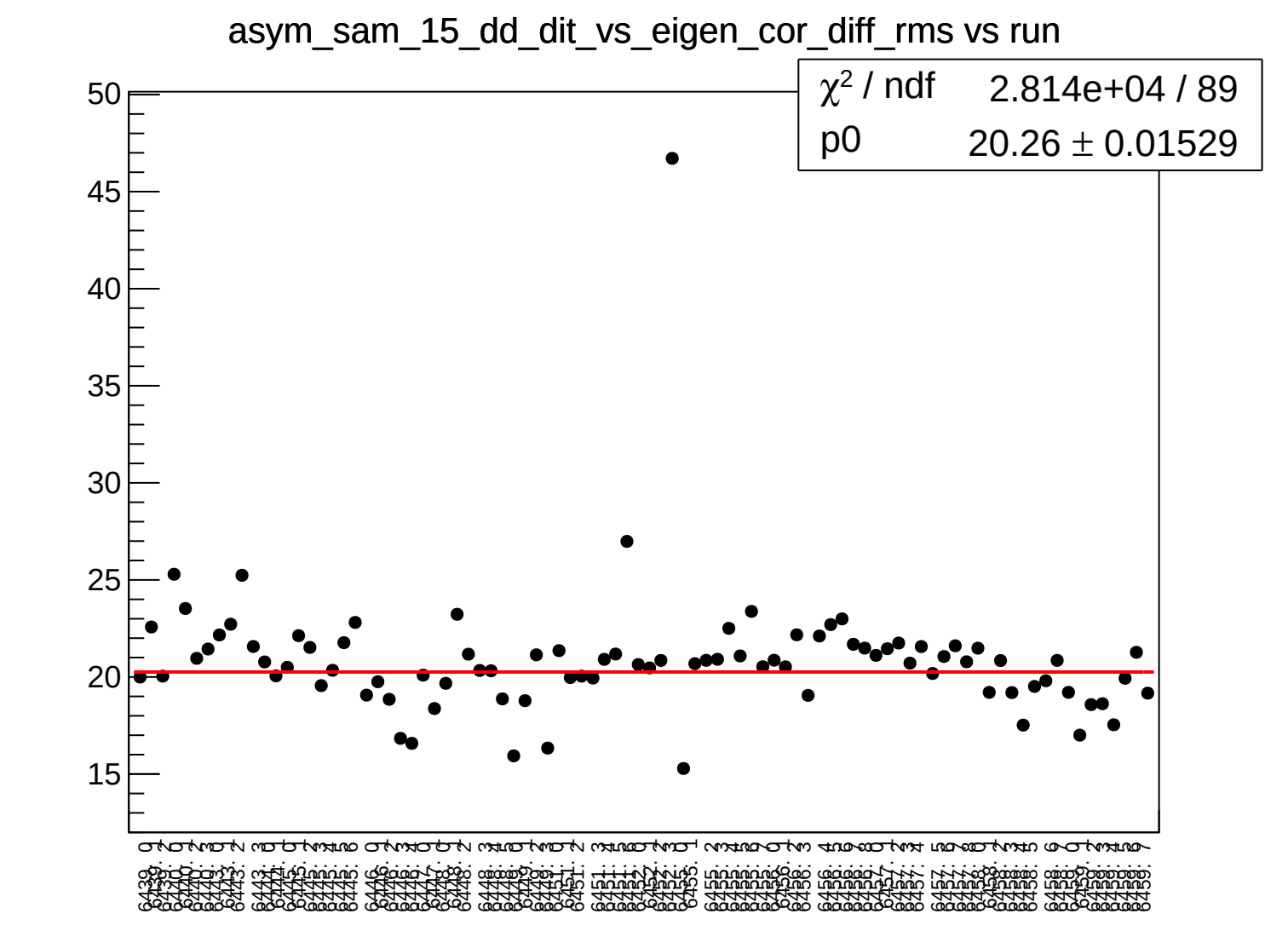

asym_sam_15_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 90.9 / 89
p0 −0.01888 ± 0.02163
pull
Entries 90
Mean −607.4
Std Dev 0

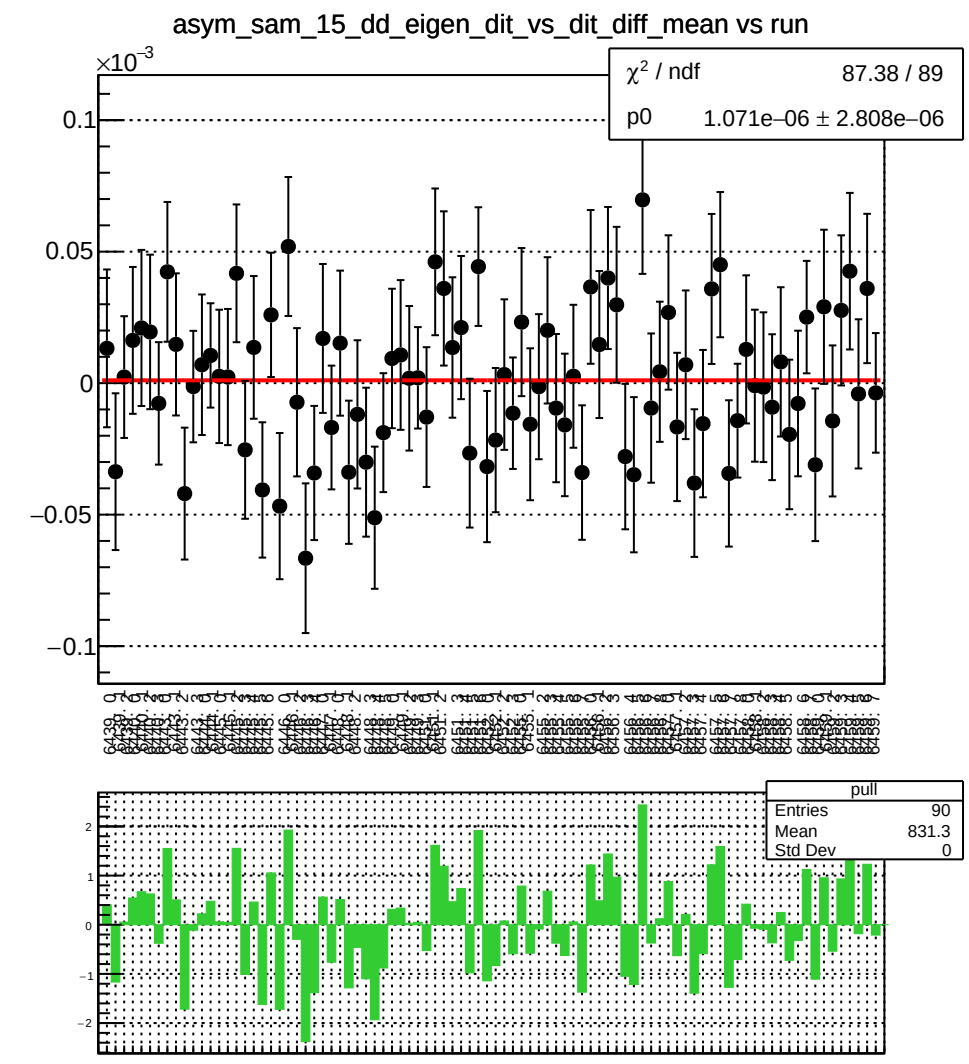

pull1D
Entries 90
Mean 0.009625
Std Dev 1.005

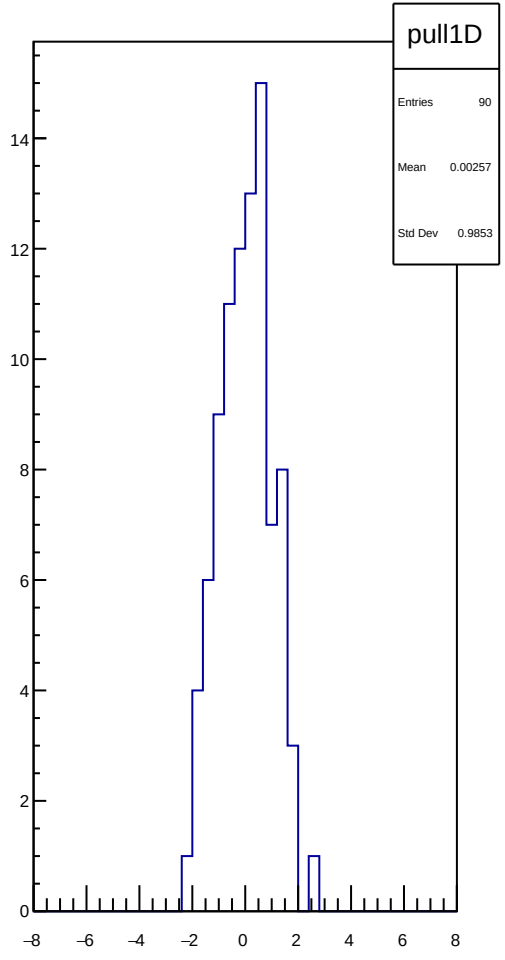

asym_sam_15_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.814e+04 / 89
p0 20.26 ± 0.01529
50
45
40
35
30
25
20
15

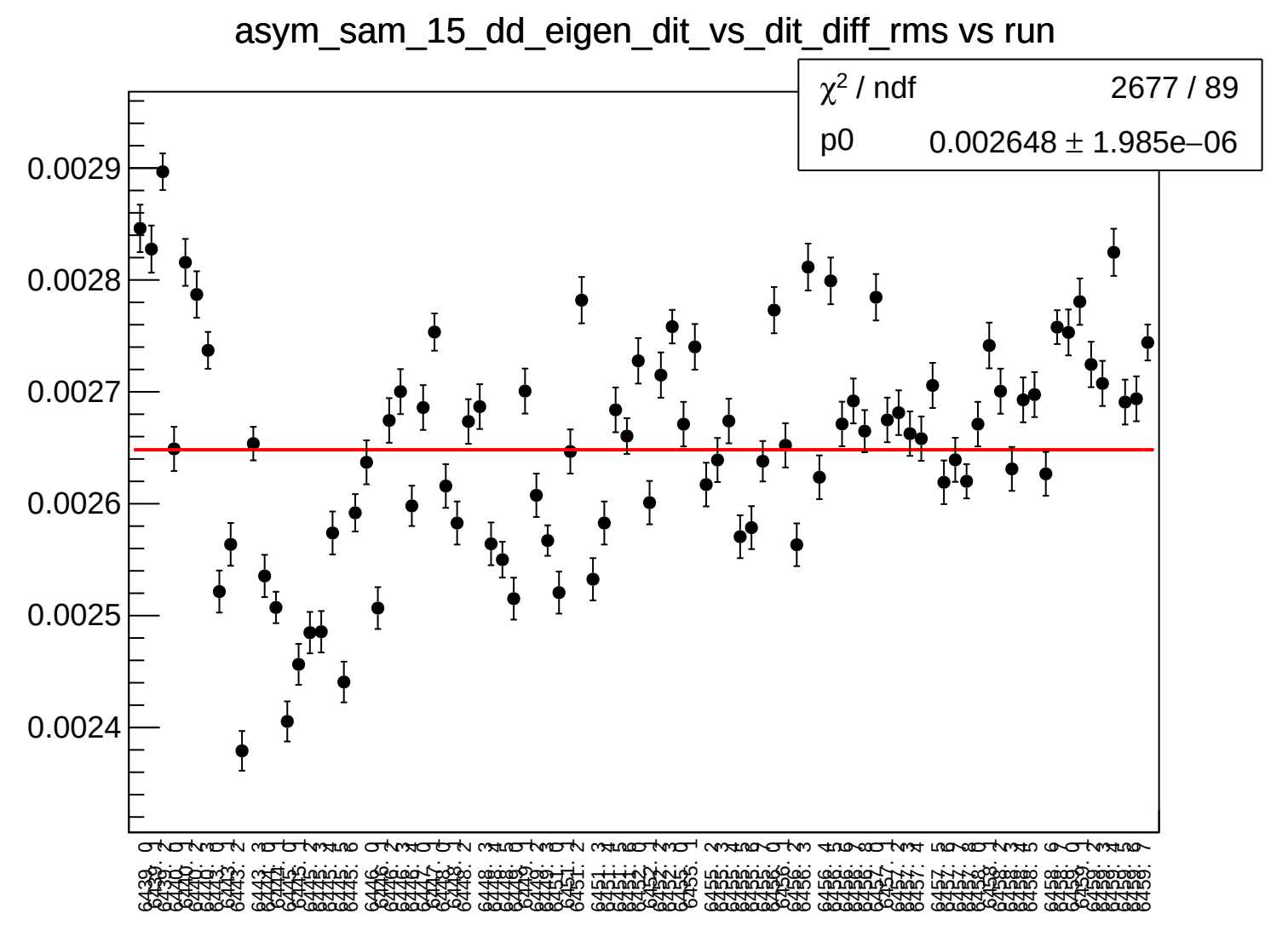

asym_sam_15_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.9 / 89
p0 −0.01888 ± 0.02163
pull
Entries 90
Mean −607.4
Std Dev 0

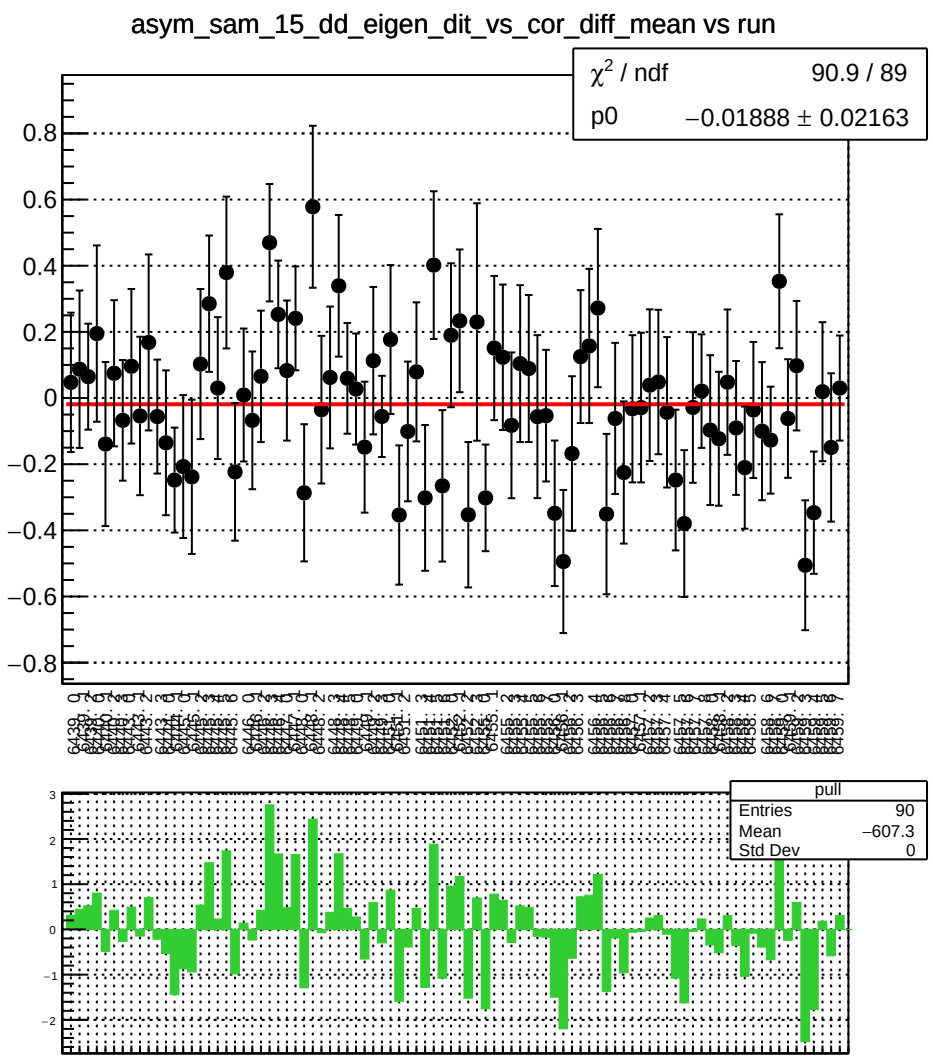

pull1D
Entries 90
Mean 0.009625
Std Dev 1.005

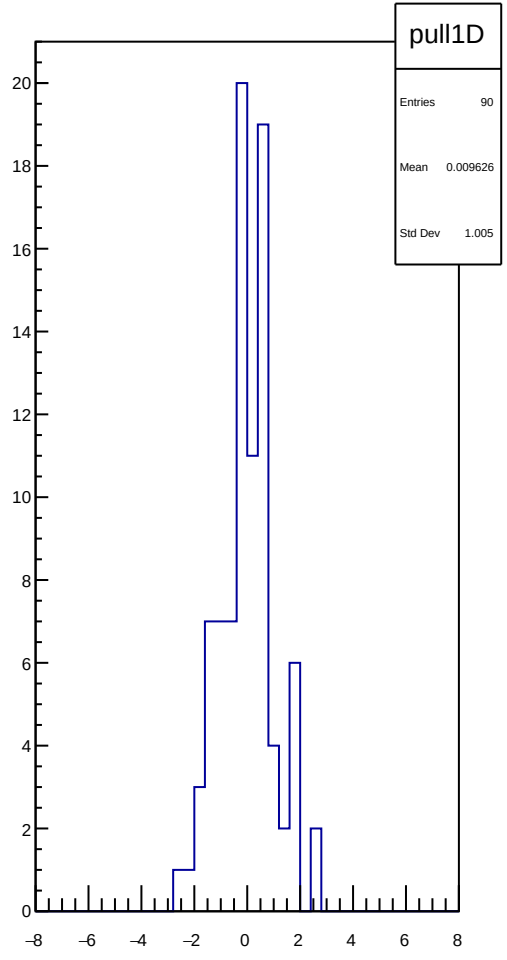

asym_sam_15_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.814e+04 / 89
p0 20.26 ± 0.01529
50
45
40
35
30
25
20
15

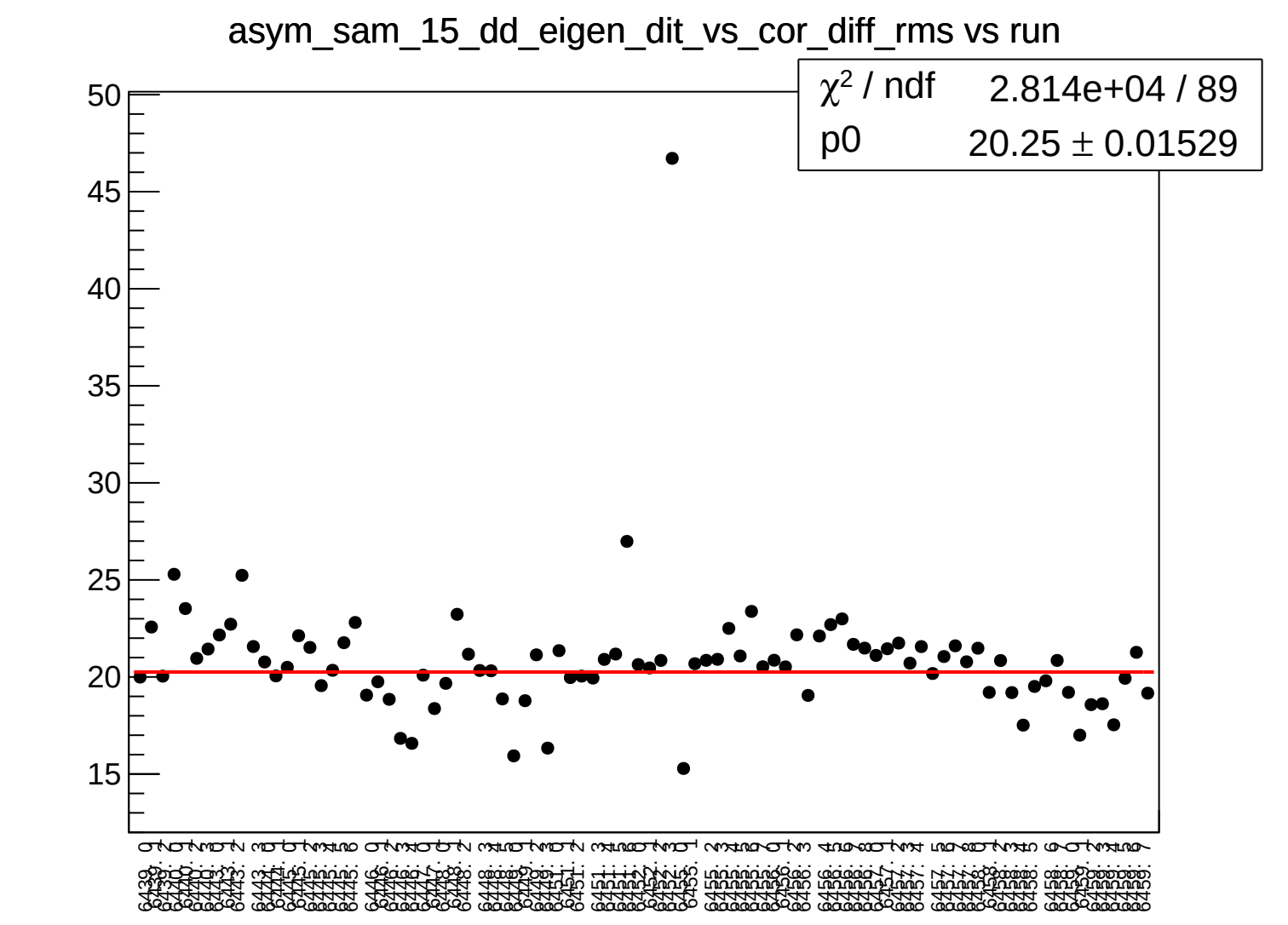

asym_sam_15_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.38 / 89
p0 1.071e−06 ± 2.808e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 90
Mean 831.3
Std Dev 0
2
1
0
−1
−2

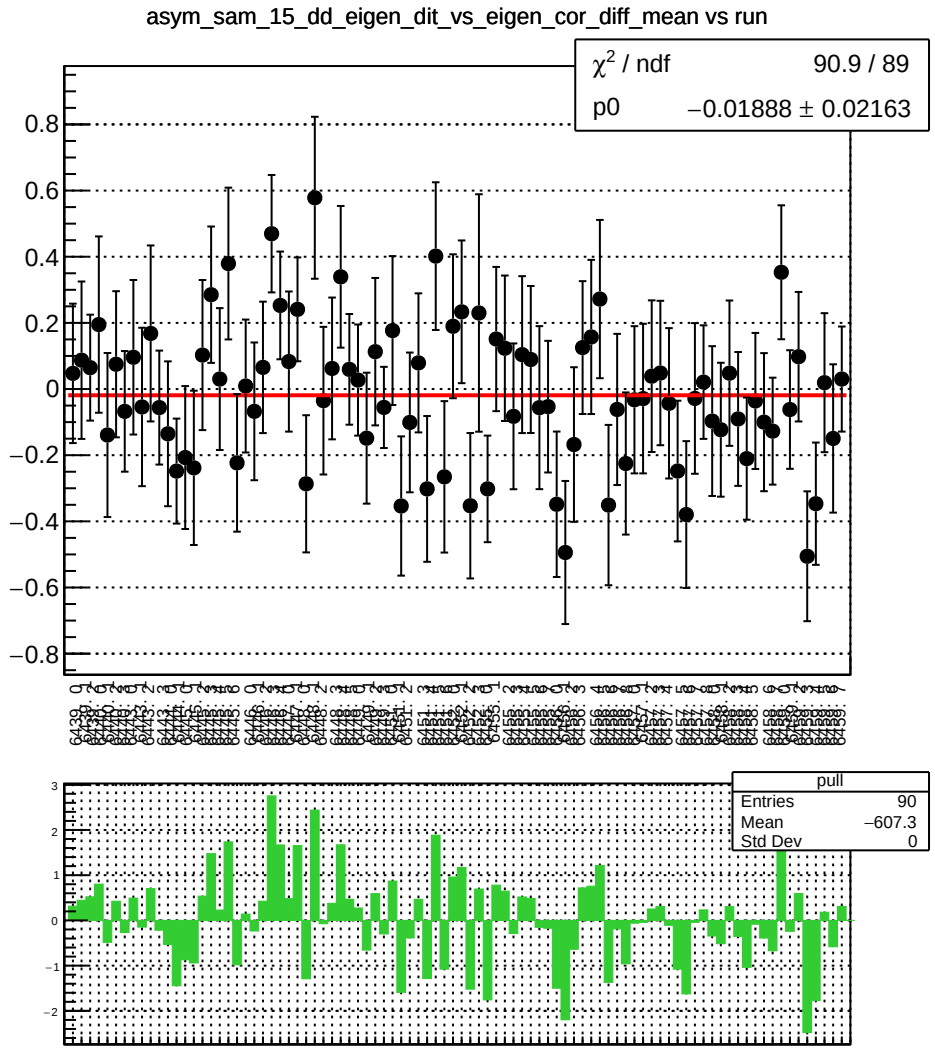

pull1D
Entries 90
Mean 0.00257
Std Dev 0.9853
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

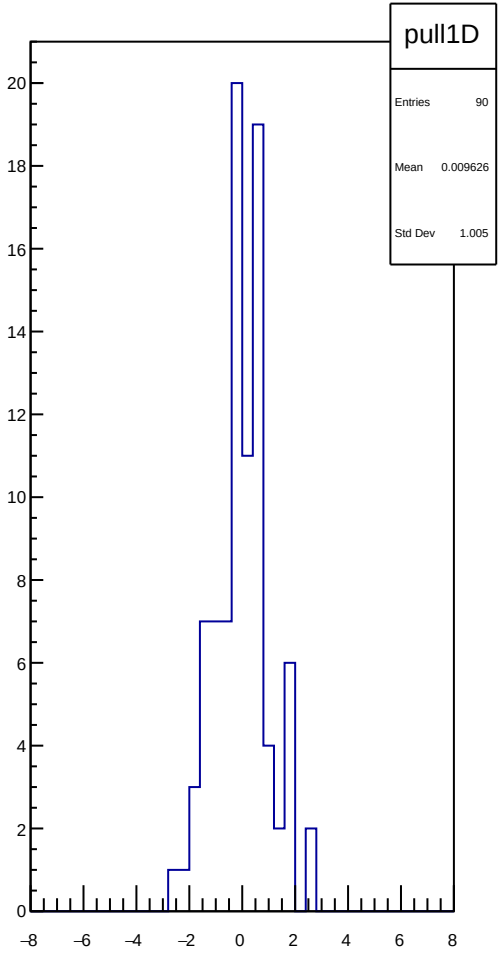

asym_sam_15_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2677 / 89
p0 0.002648 ± 1.985e−06
0.0029
0.0028
0.0027
0.0026
0.0025
0.0024

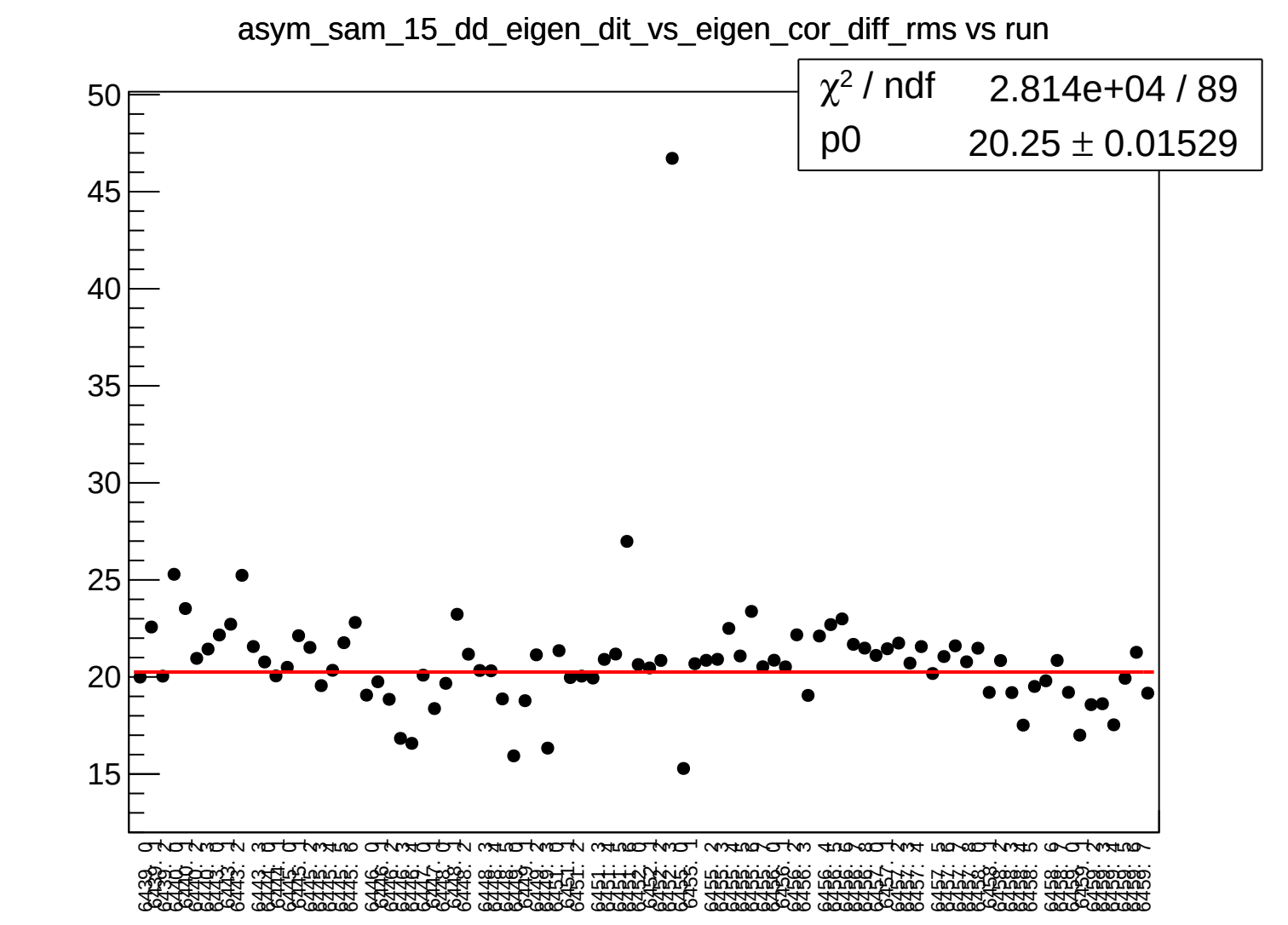

asym_sam_15_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.9 / 89
p0 −0.01888 ± 0.02163
pull
Entries 90
Mean −607.3
Std Dev 0

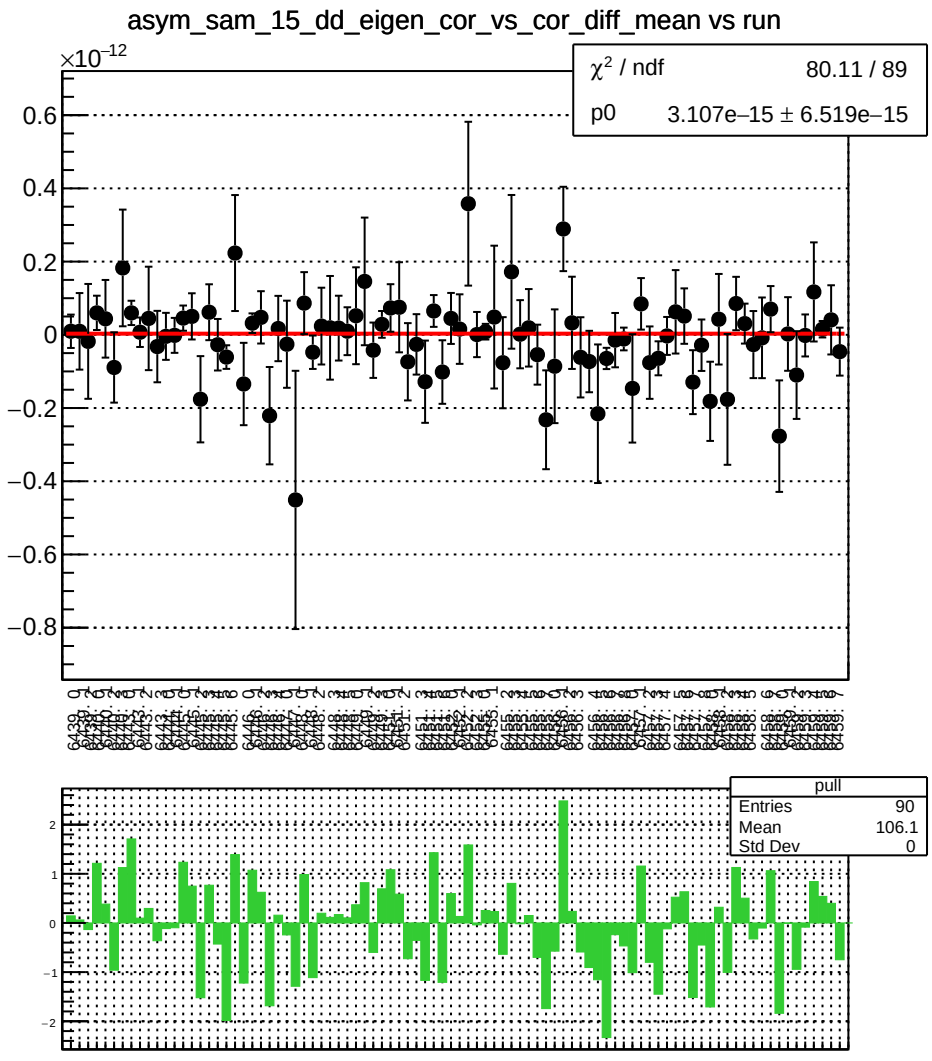

pull1D
Entries 90
Mean 0.009626
Std Dev 1.005

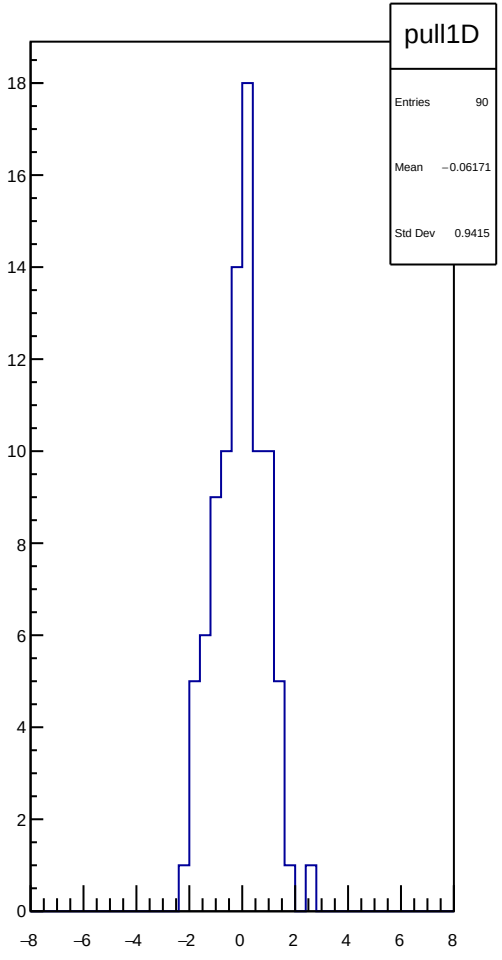

asym_sam_15_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.814e+04 / 89
p0 20.25 ± 0.01529
50
45
40
35
30
25
20
15

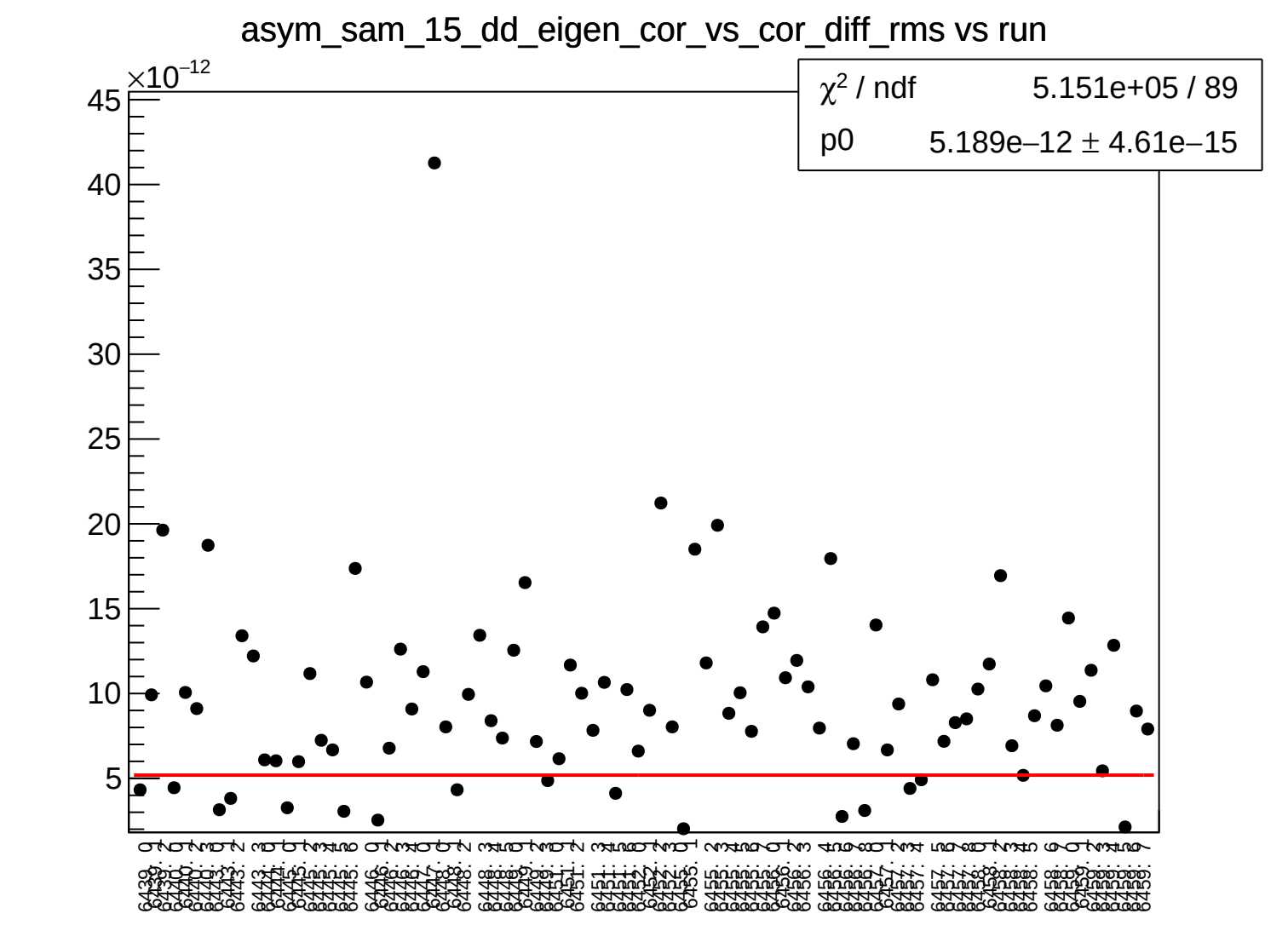

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.9 / 89
p0 −0.01888 ± 0.02163
pull
Entries 90
Mean −607.3
Std Dev 0

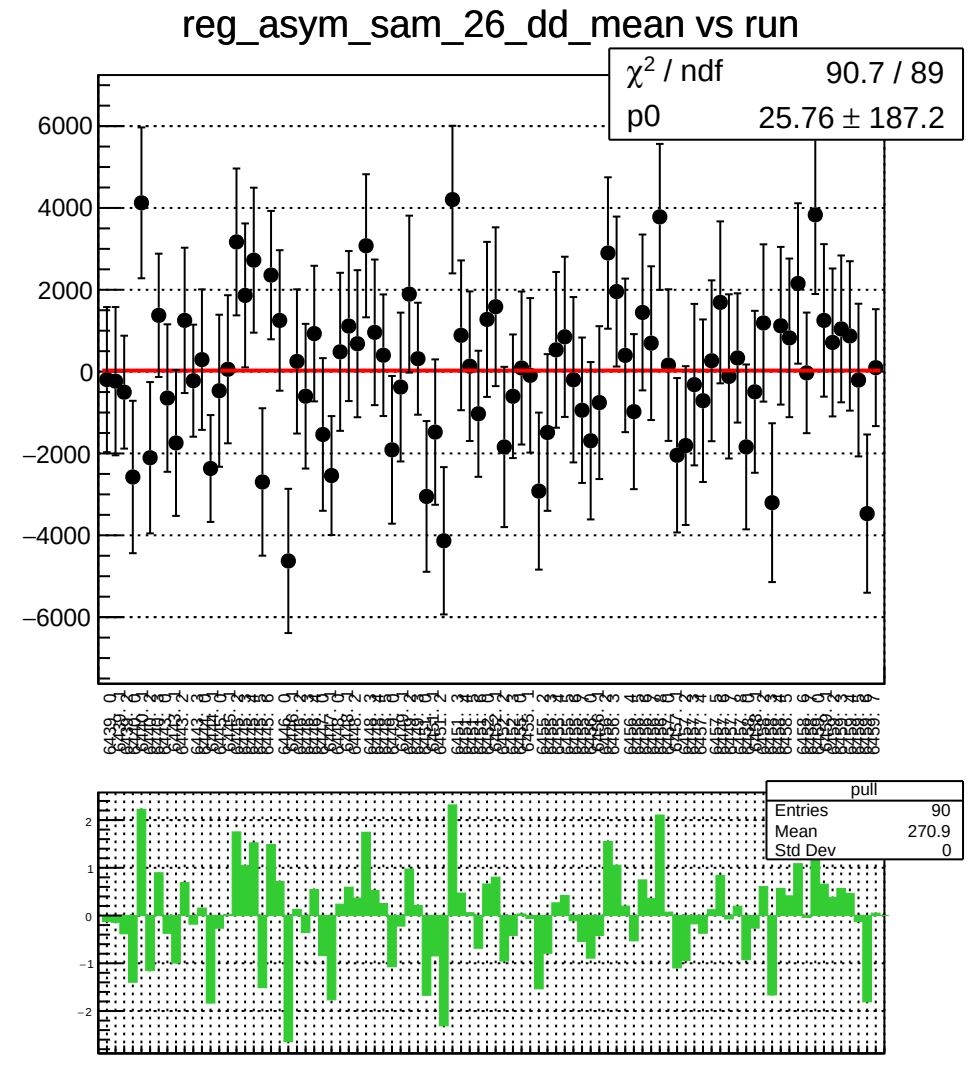

pull1D
Entries 90
Mean 0.009626
Std Dev 1.005

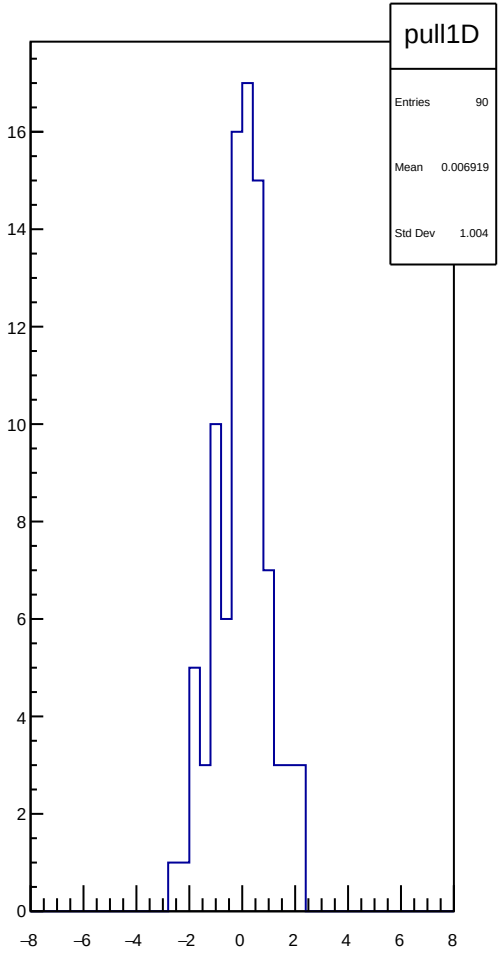

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.814e+04 / 89
p0 20.25 ± 0.01529
50
45
40
35
30
25
20
15

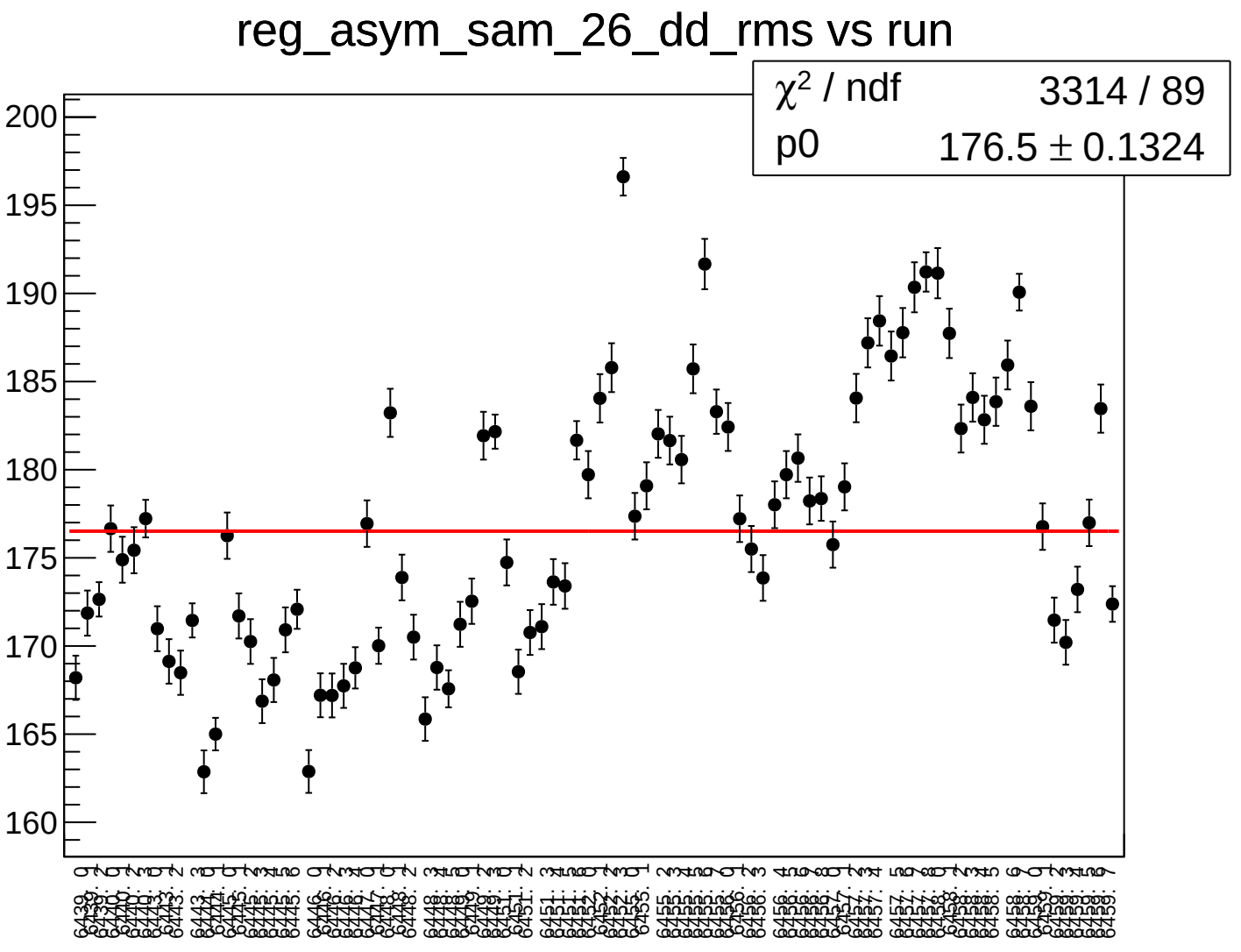

asym_sam_15_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.11 / 89
p0 3.107e−15 ± 6.519e−15
pull
Entries 90
Mean 106.1
Std Dev 0

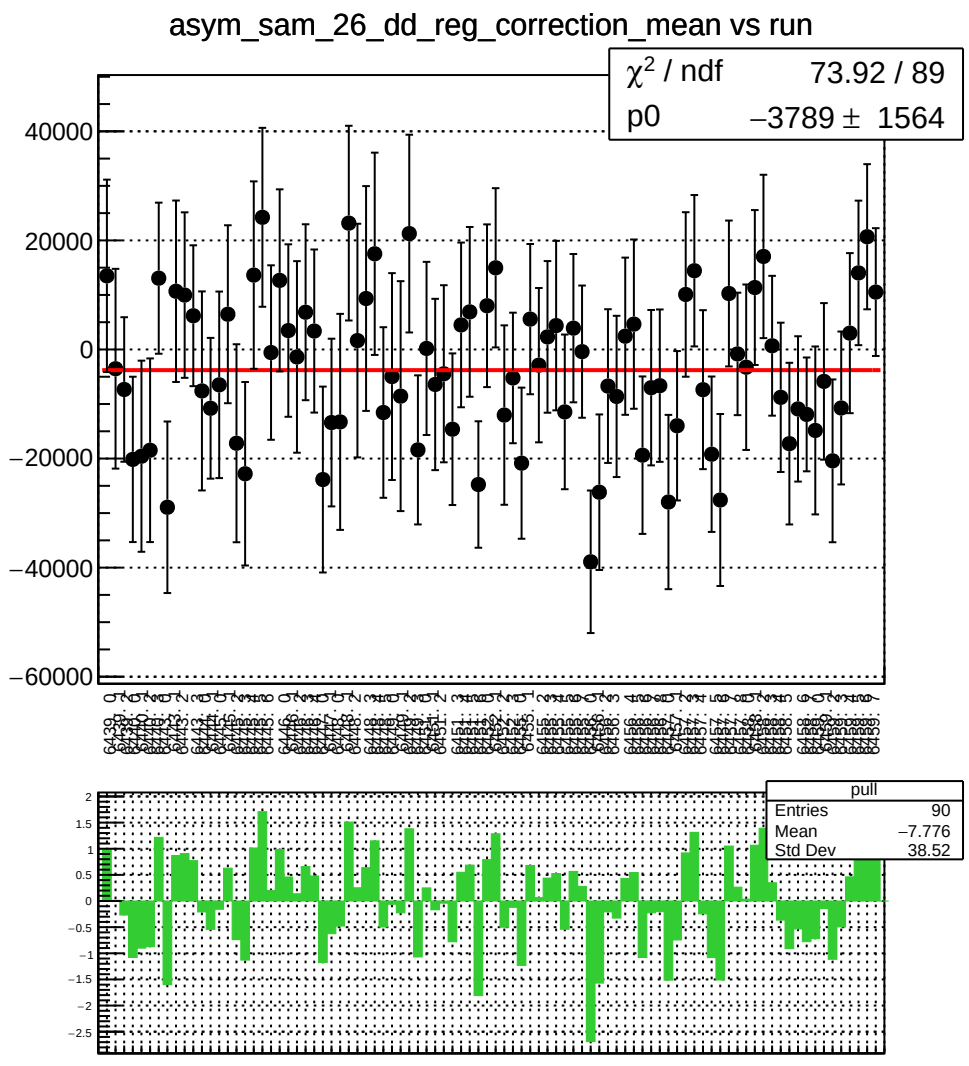

pull1D
Entries 90
Mean −0.06171
Std Dev 0.9415

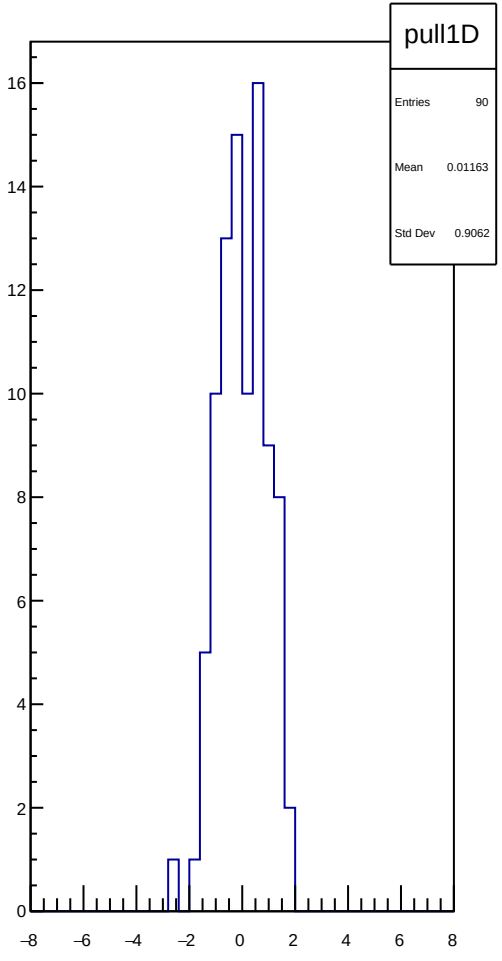

asym_sam_15_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
45
40
35
30
25
20
15
10
5
χ² / ndf 5.151e+05 / 89
p0 5.189e−12 ± 4.61e−15

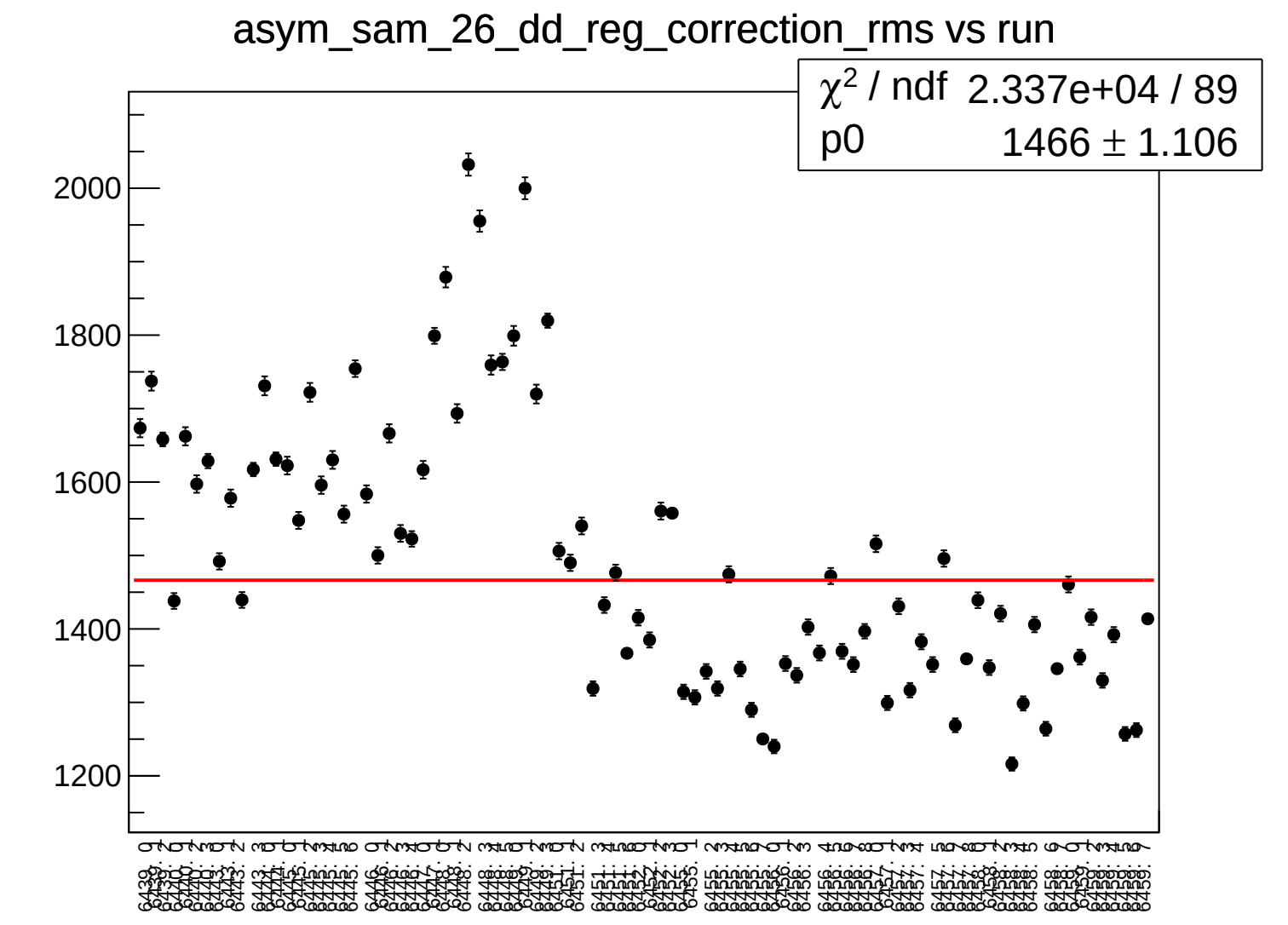

reg_asym_sam_26_dd_mean vs run
χ² / ndf 90.7 / 89
p0 25.76 ± 187.2
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 90
Mean 270.9
Std Dev 0
2
1
0
−1
−2

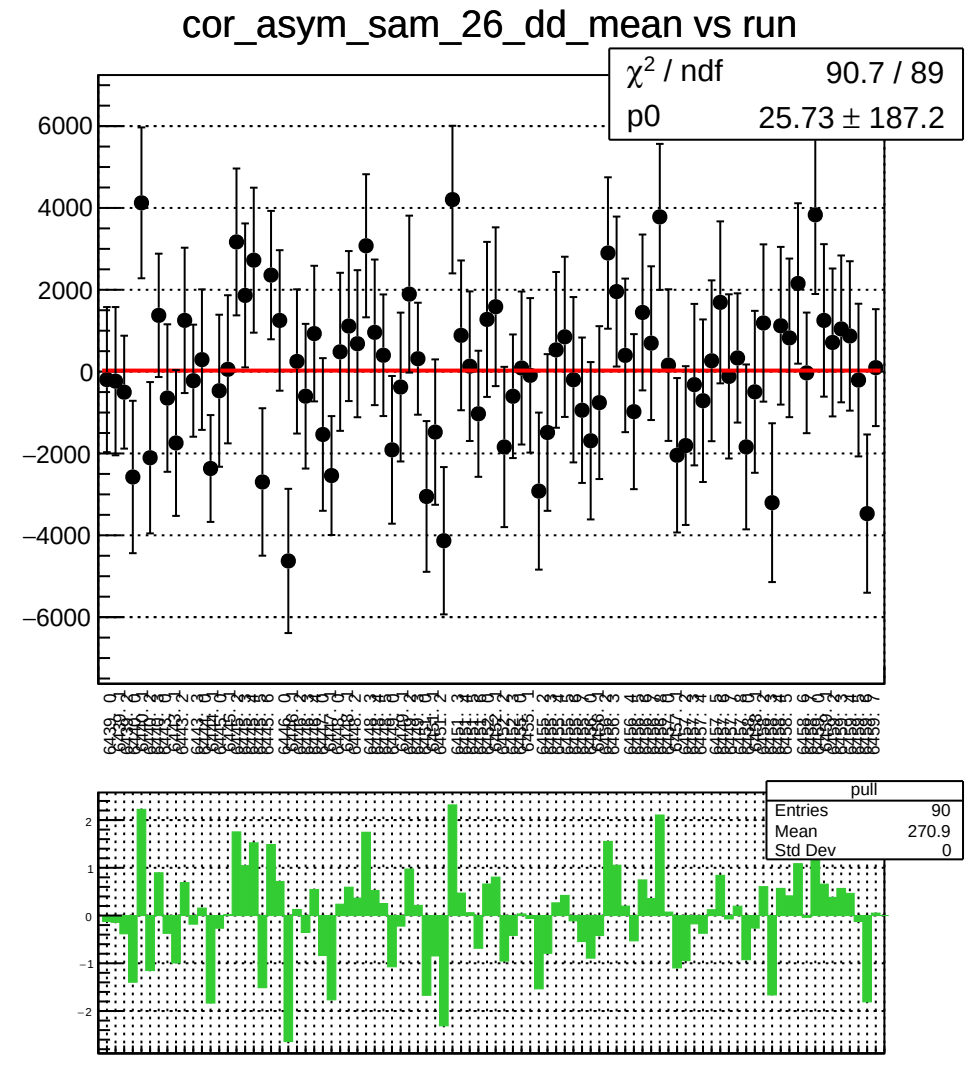

pull1D
Entries 90
Mean 0.006919
Std Dev 1.004
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

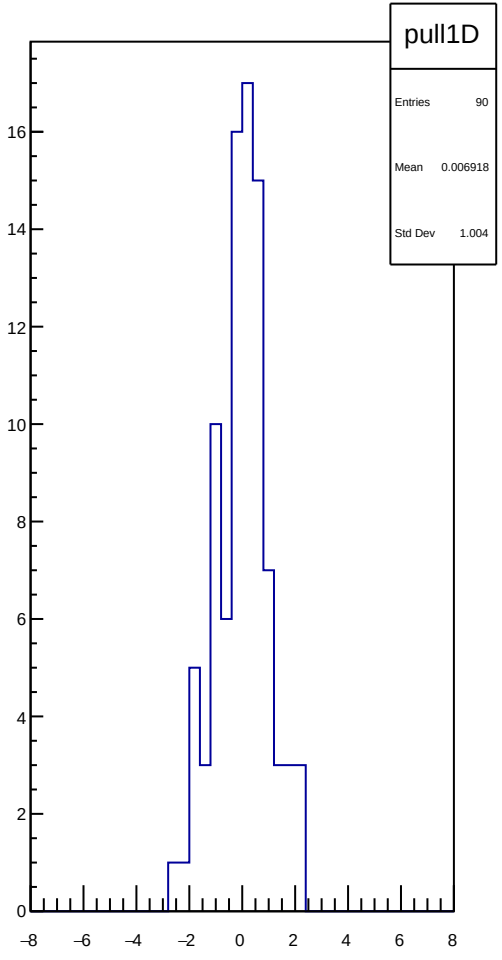

reg_asym_sam_26_dd_rms vs run
χ² / ndf 3314 / 89
p0 176.5 ± 0.1324
200
195
190
185
180
175
170
165
160

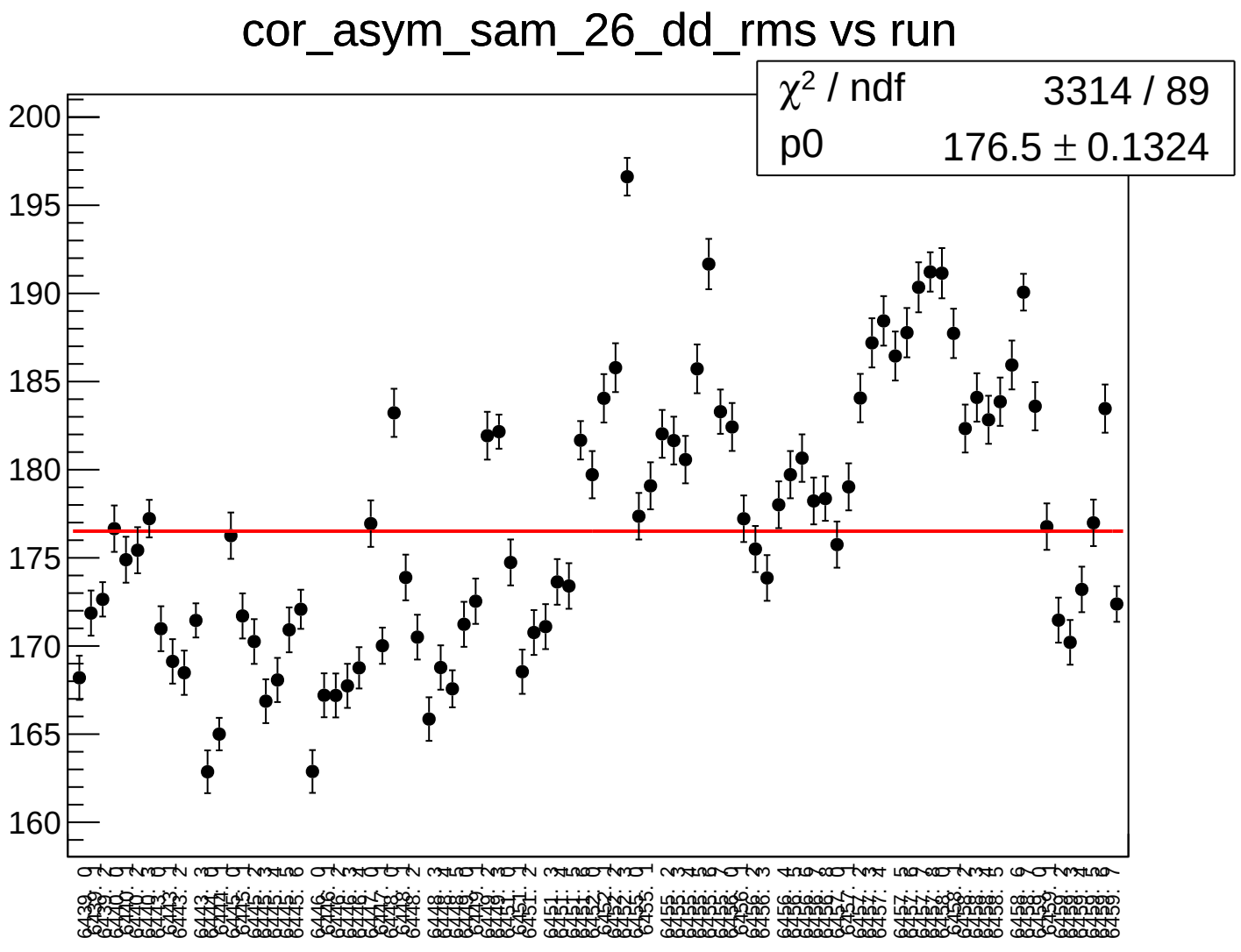

asym_sam_26_dd_reg_correction_mean vs run
χ² / ndf 73.92 / 89
p0 −3789 ± 1564
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −7.776
Std Dev 38.52
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

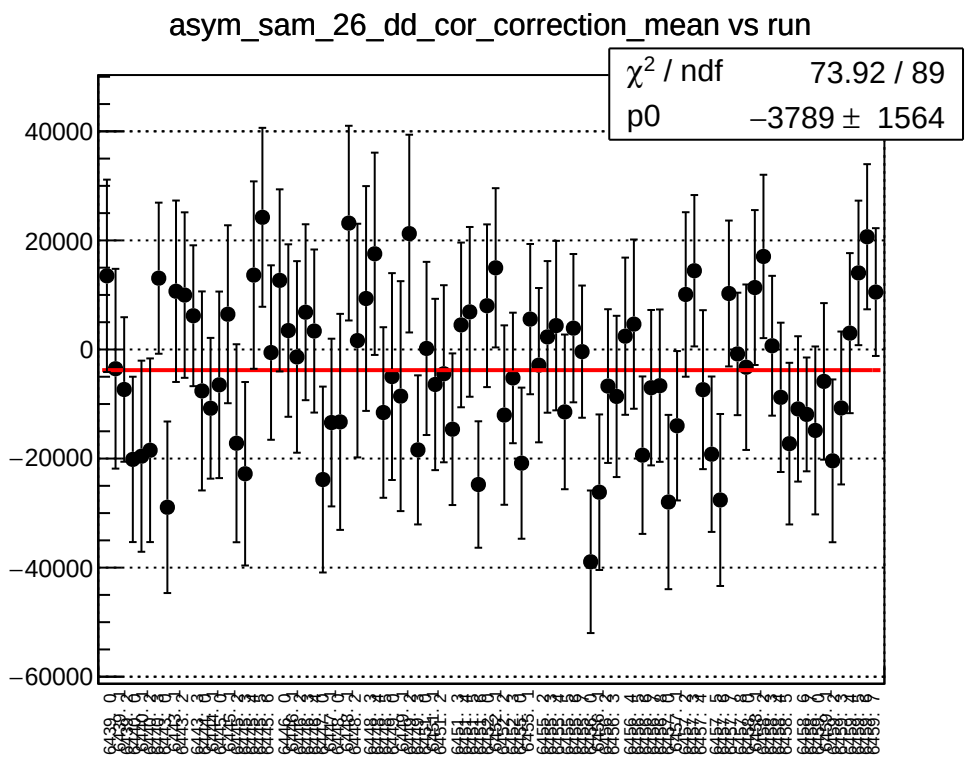

pull1D
Entries 90
Mean 0.01163
Std Dev 0.9062
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

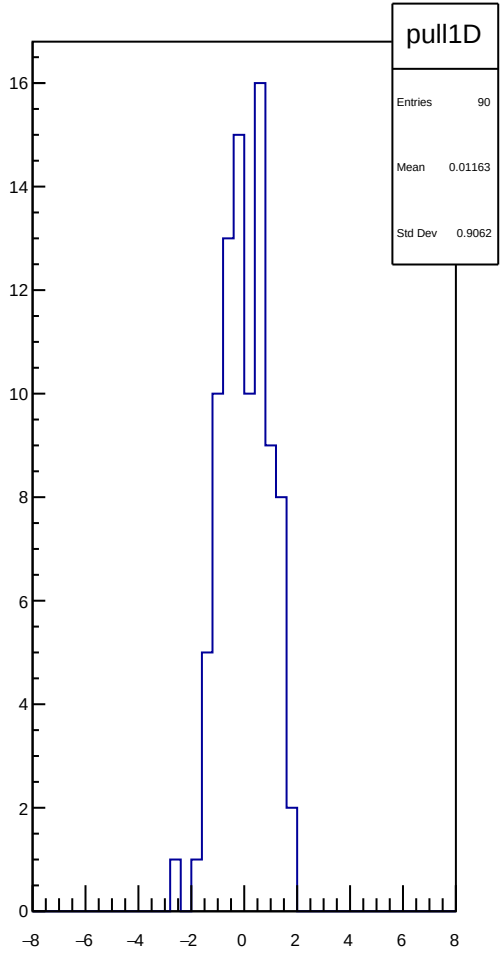

asym_sam_26_dd_reg_correction_rms vs run
χ² / ndf 2.337e+04 / 89
p0 1466 ± 1.106
2000
1800
1600
1400
1200

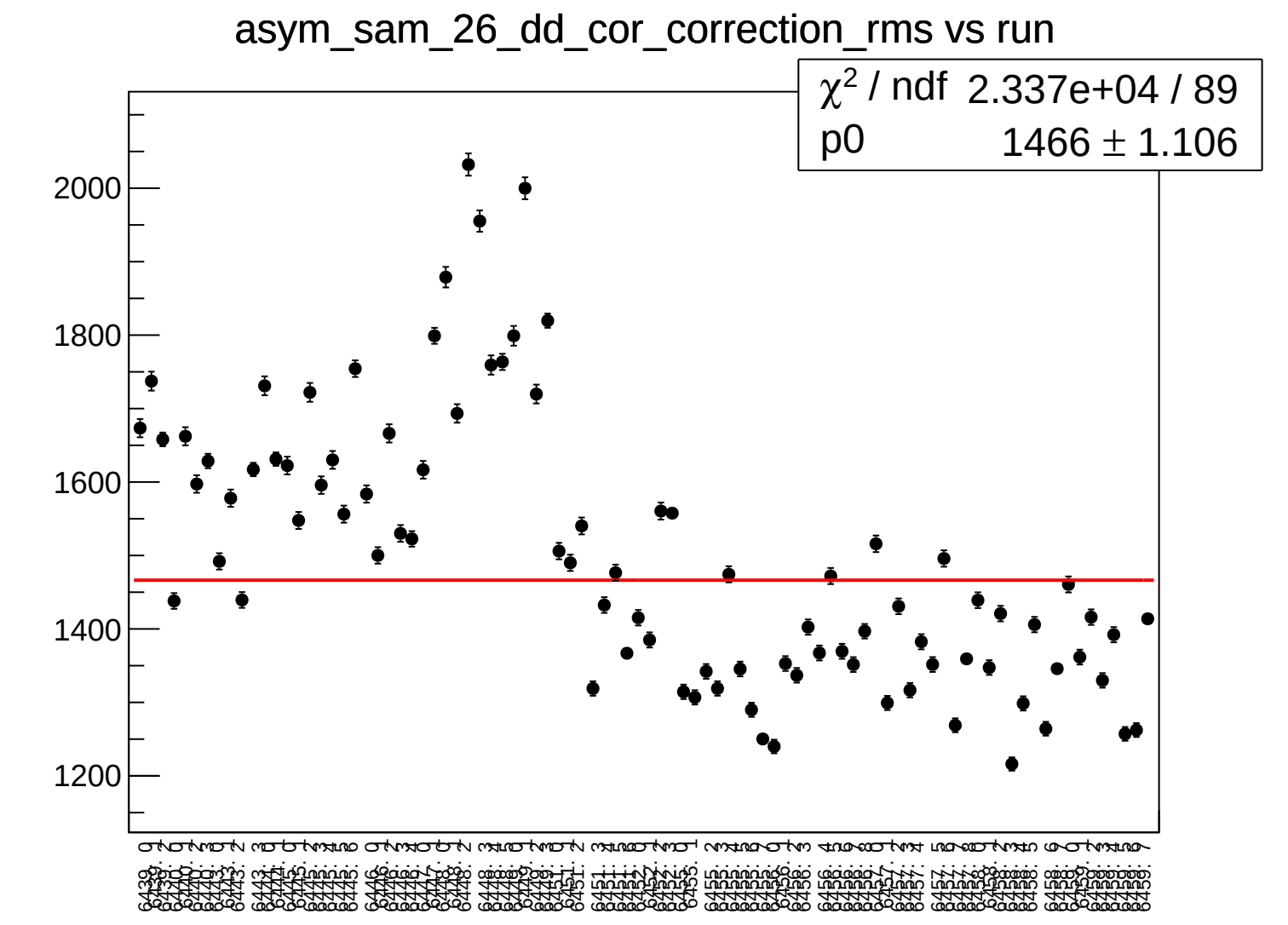

cor_asym_sam_26_dd_mean vs run
χ² / ndf 90.7 / 89
p0 25.73 ± 187.2
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 90
Mean 270.9
Std Dev 0
2
1
0
−1
−2

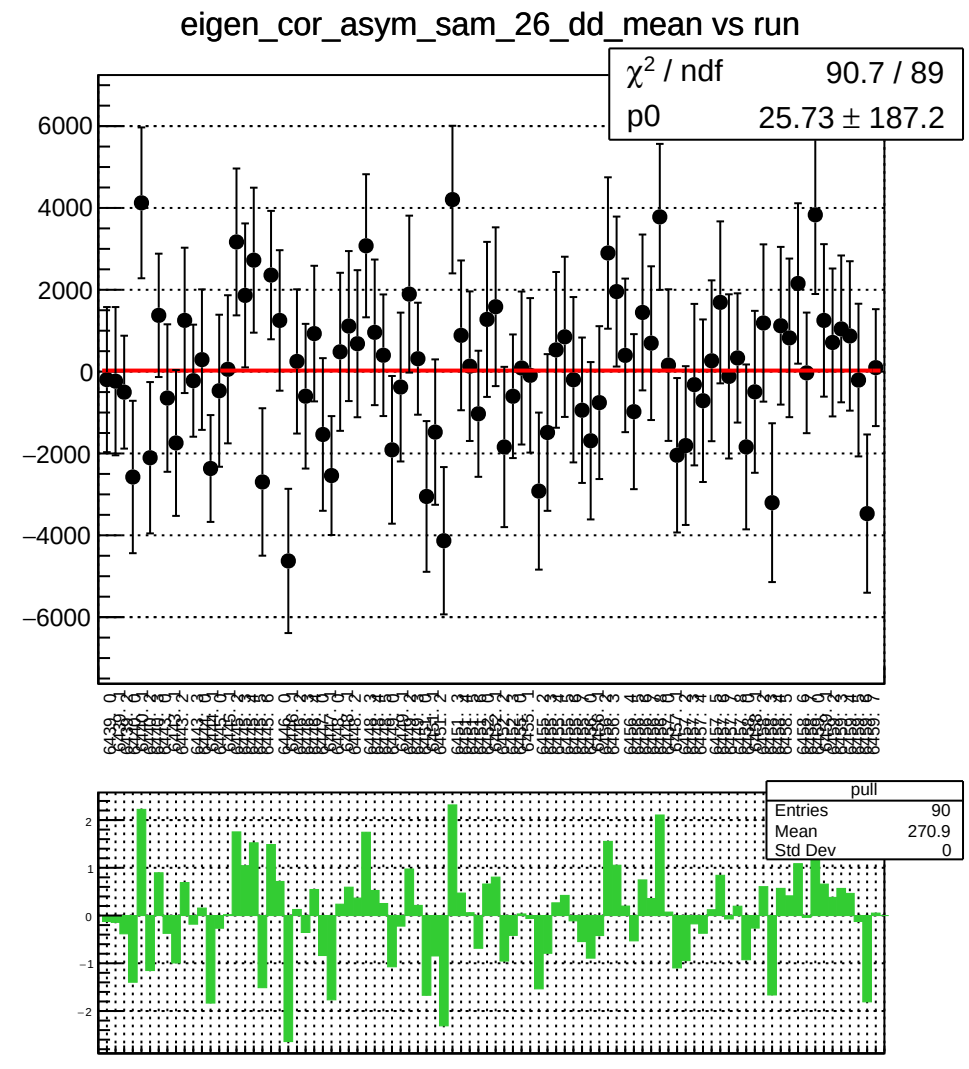

pull1D
Entries 90
Mean 0.006918
Std Dev 1.004
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

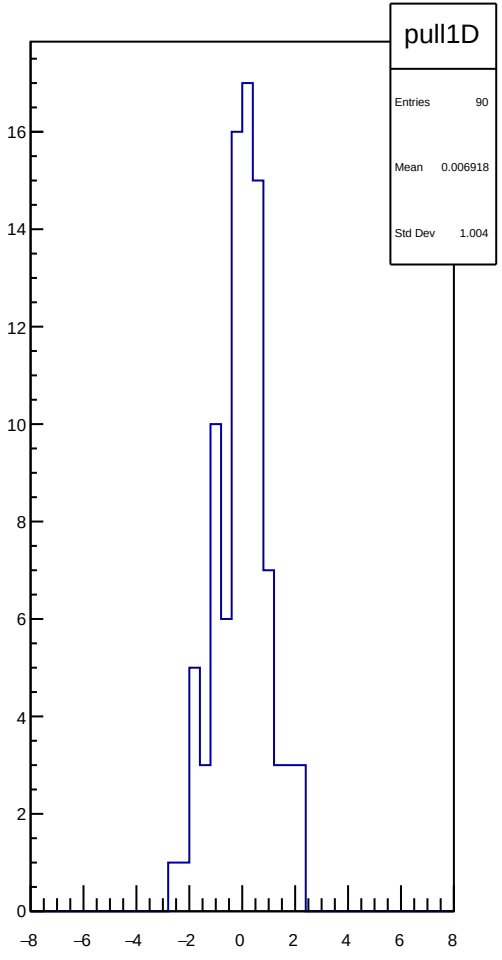

cor_asym_sam_26_dd_rms vs run
χ² / ndf 3314 / 89
p0 176.5 ± 0.1324
200
195
190
185
180
175
170
165
160

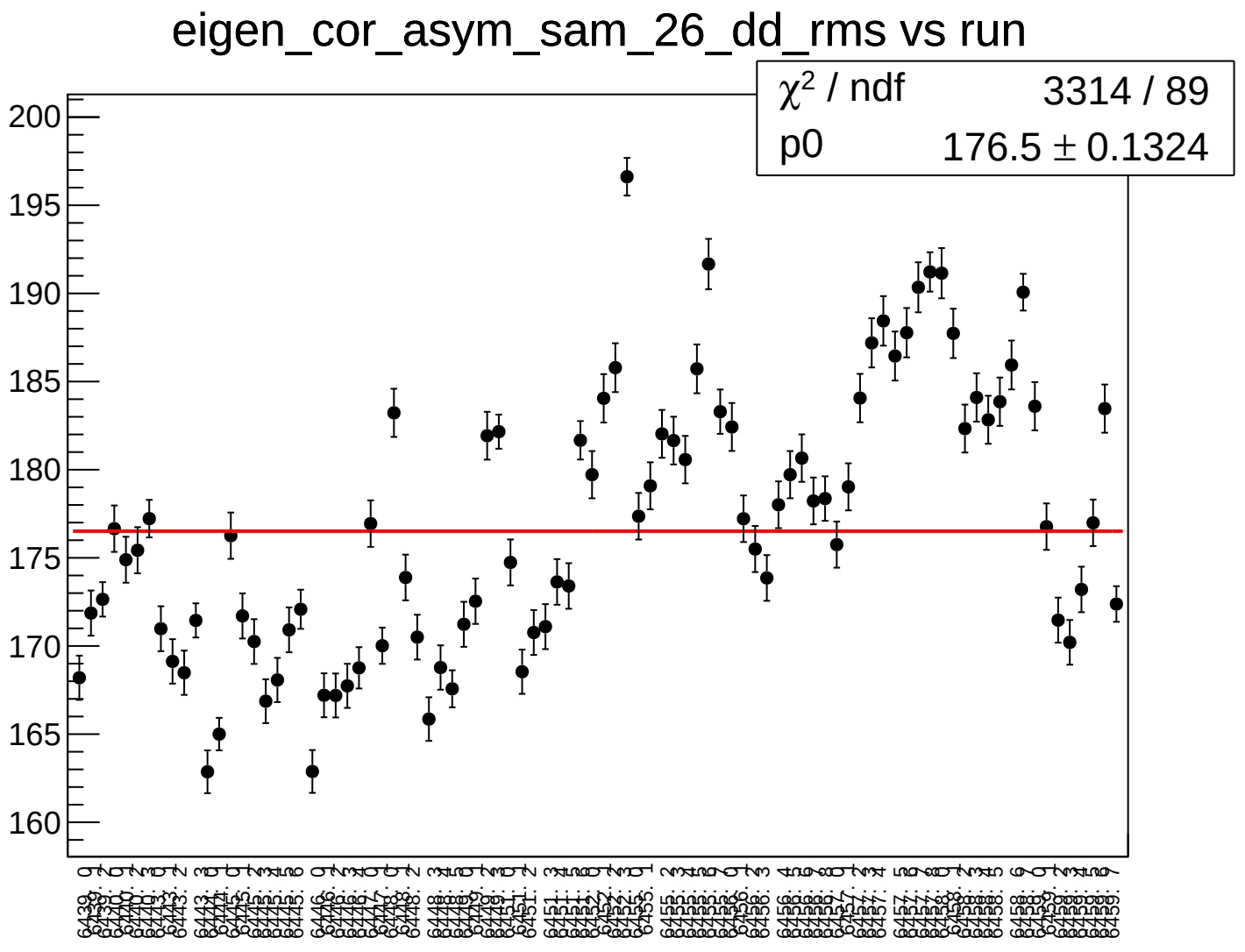

asym_sam_26_dd_cor_correction_mean vs run
χ² / ndf 73.92 / 89
p0 −3789 ± 1564
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −7.773
Std Dev 38.52
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

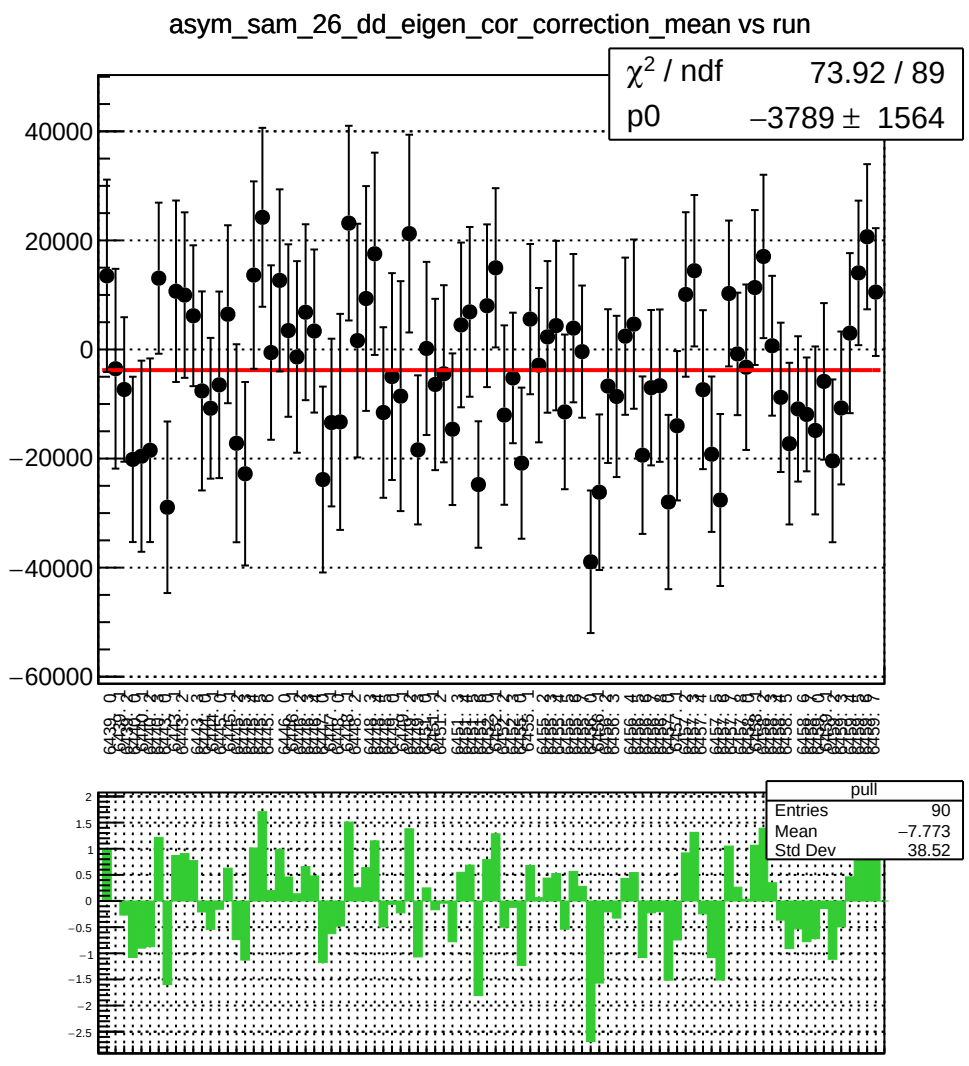

pull1D
Entries 90
Mean 0.01163
Std Dev 0.9062
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

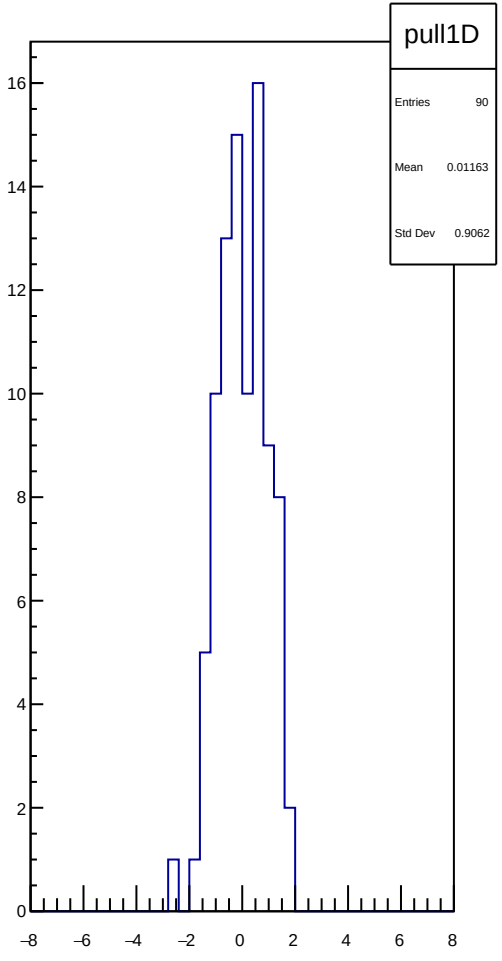

asym_sam_26_dd_cor_correction_rms vs run
χ² / ndf 2.337e+04 / 89
p0 1466 ± 1.106
2000
1800
1600
1400
1200

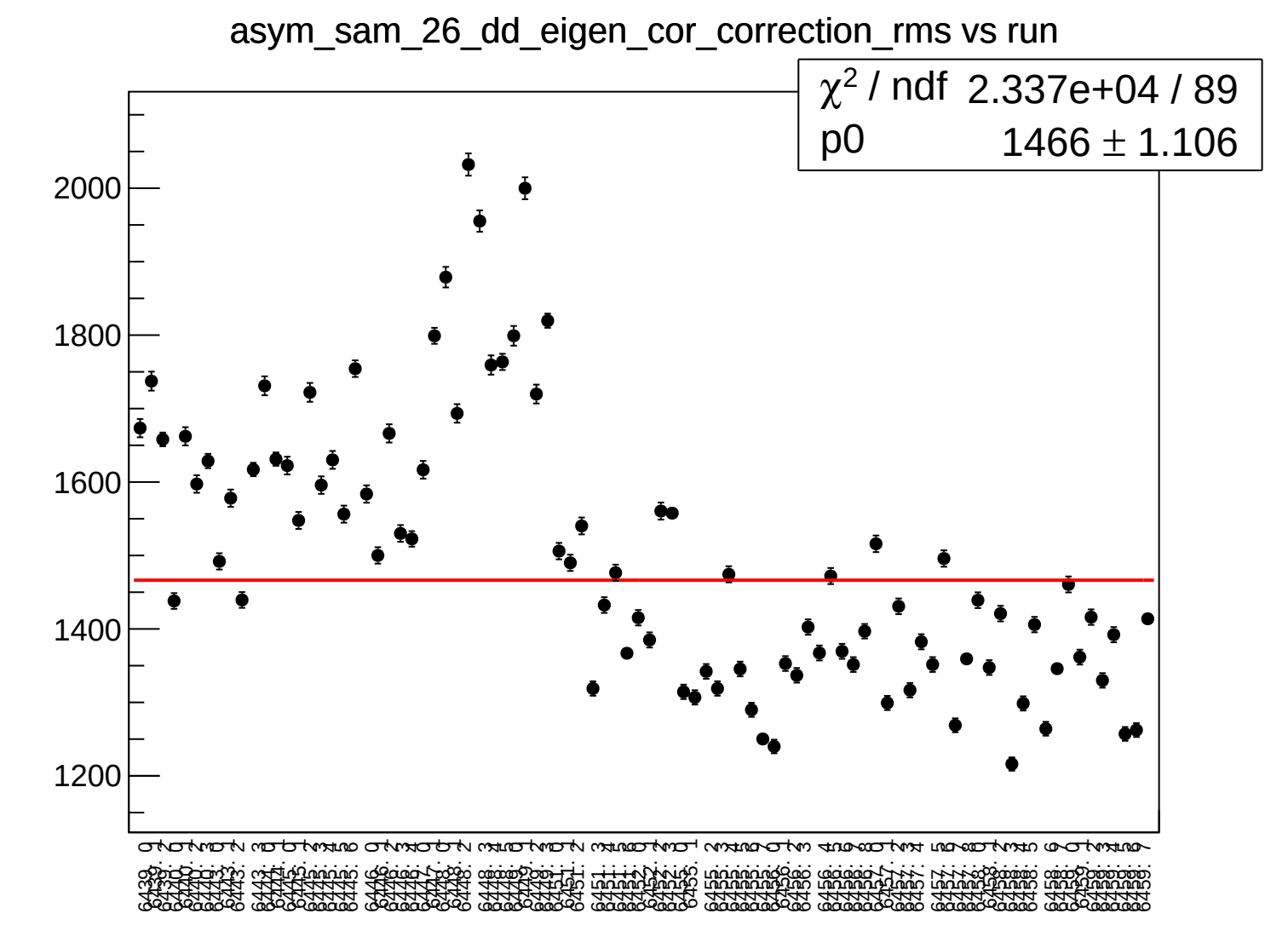

eigen_cor_asym_sam_26_dd_mean vs run
χ² / ndf 90.7 / 89
p0 25.73 ± 187.2
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 90
Mean 270.9
Std Dev 0
2
1
0
−1
−2

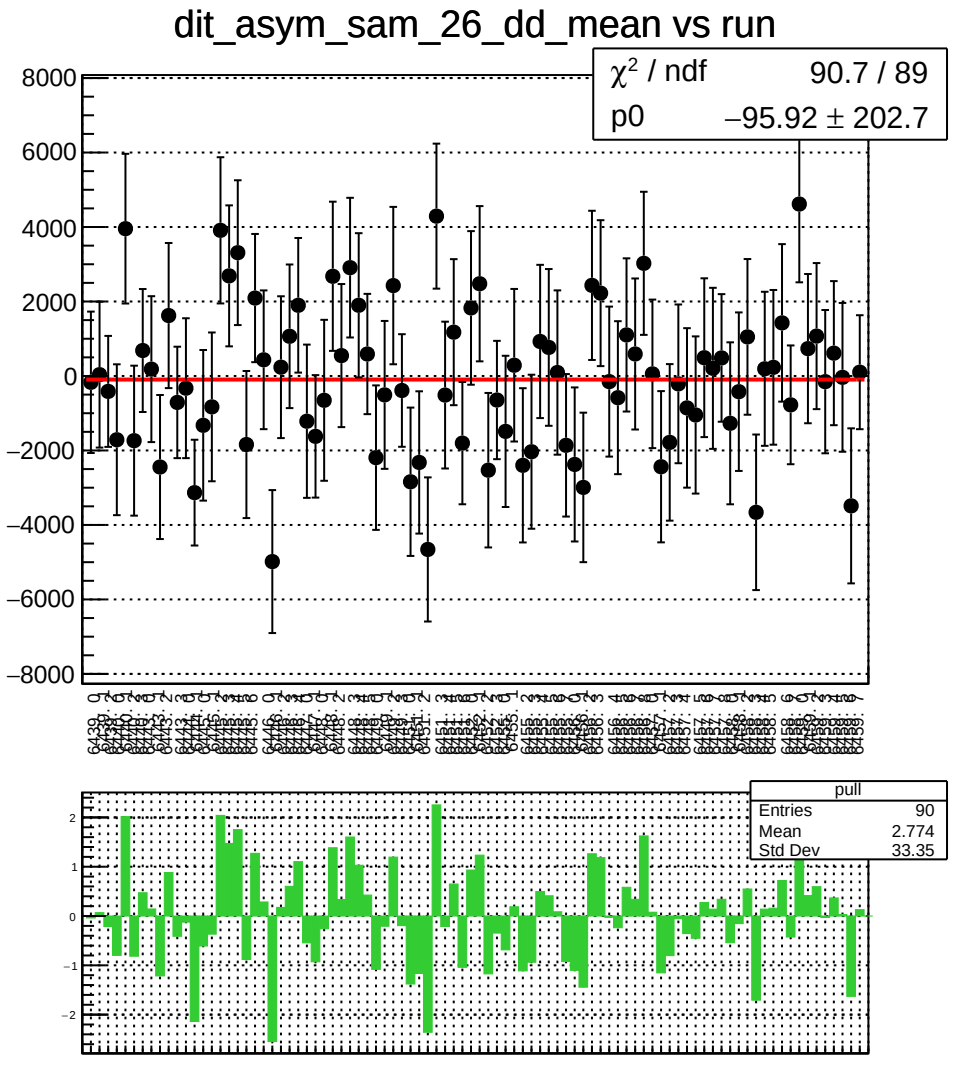

pull1D
Entries 90
Mean 0.006918
Std Dev 1.004
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

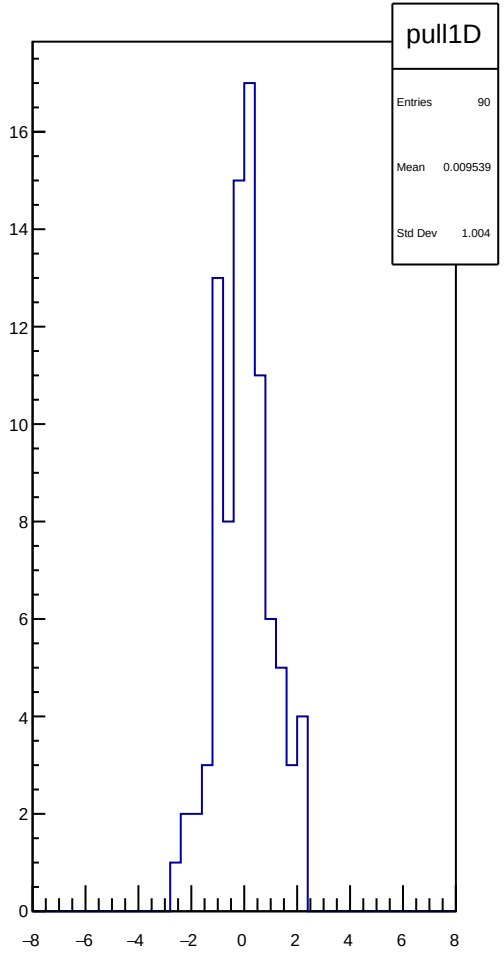

eigen_cor_asym_sam_26_dd_rms vs run
χ² / ndf 3314 / 89
p0 176.5 ± 0.1324
200
195
190
185
180
175
170
165
160

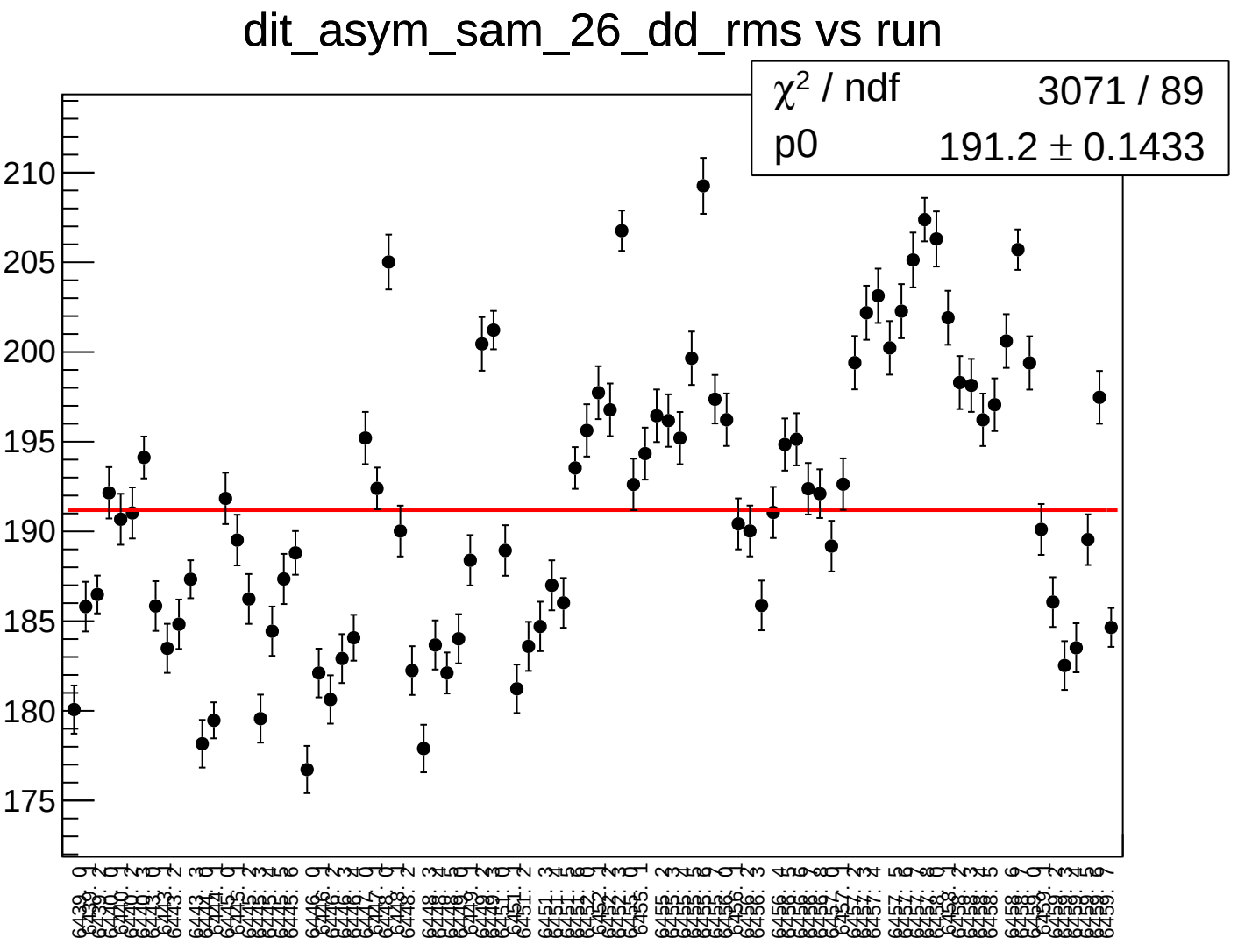

asym_sam_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 73.92 / 89
p0 −3789 ± 1564
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −7.773
Std Dev 38.52
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

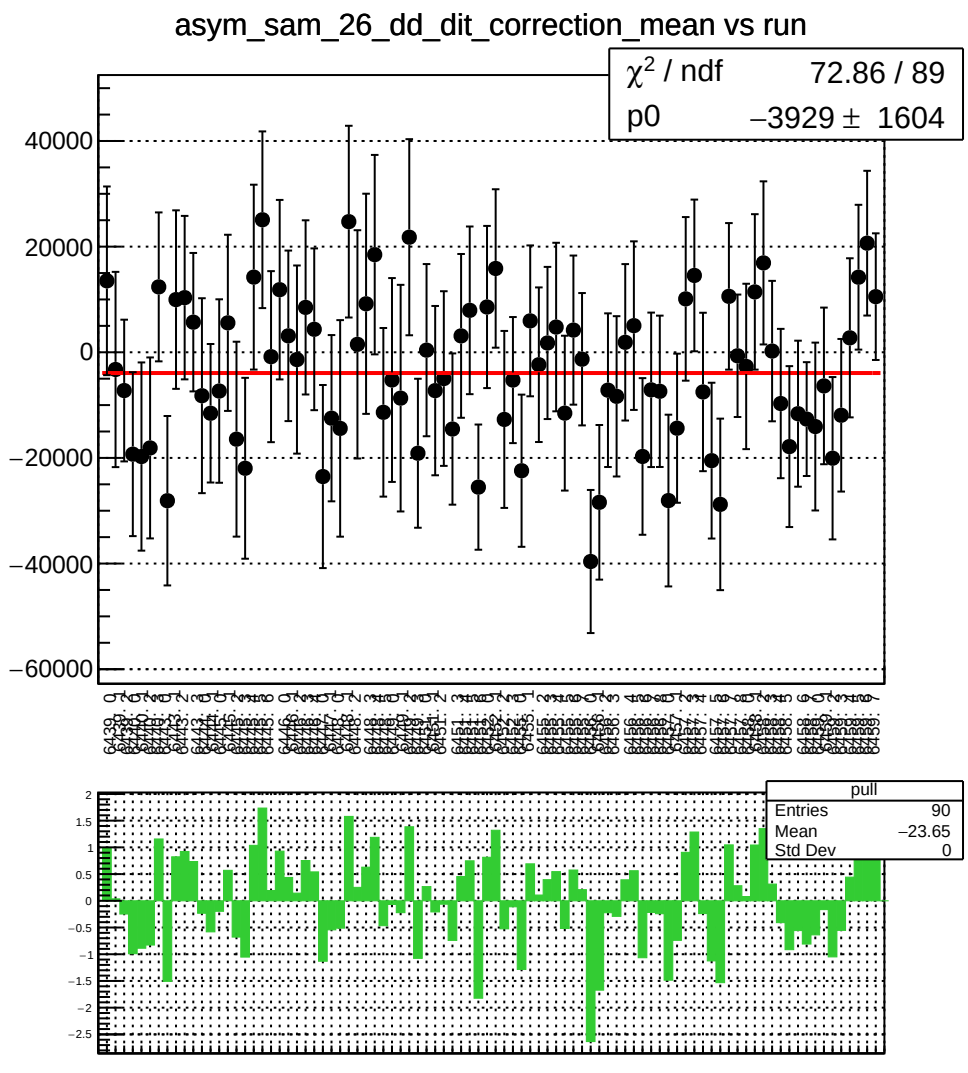

pull1D
Entries 90
Mean 0.01163
Std Dev 0.9062
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

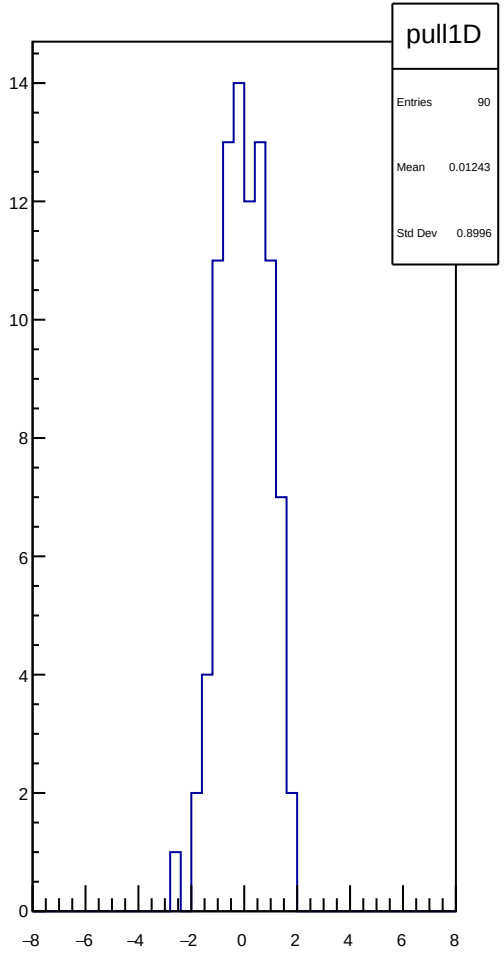

asym_sam_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.337e+04 / 89
p0 1466 ± 1.106
2000
1800
1600
1400
1200

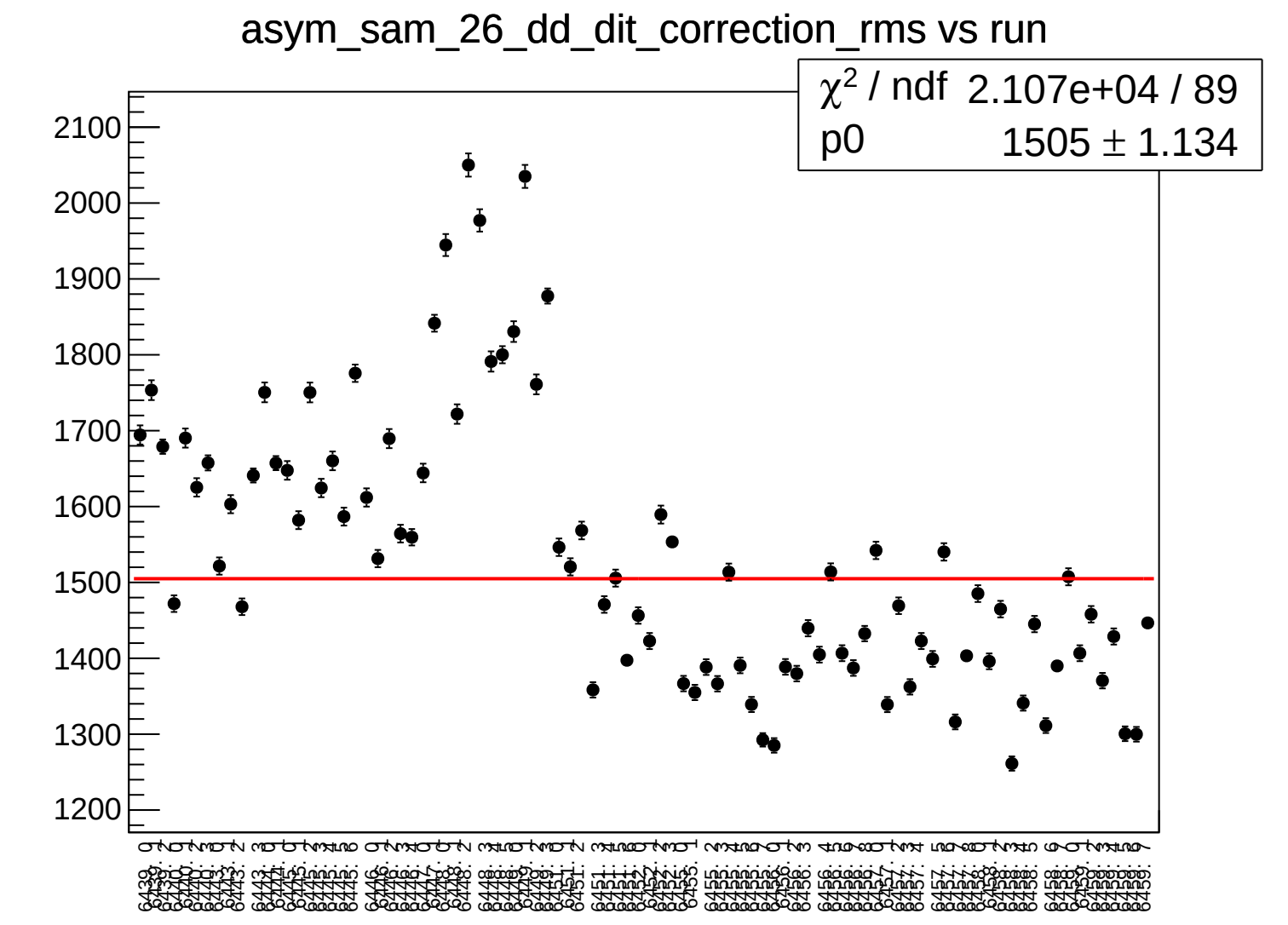

dit_asym_sam_26_dd_mean vs run
χ² / ndf 90.7 / 89
p0 −95.92 ± 202.7
pull
Entries 90
Mean 2.774
Std Dev 33.35

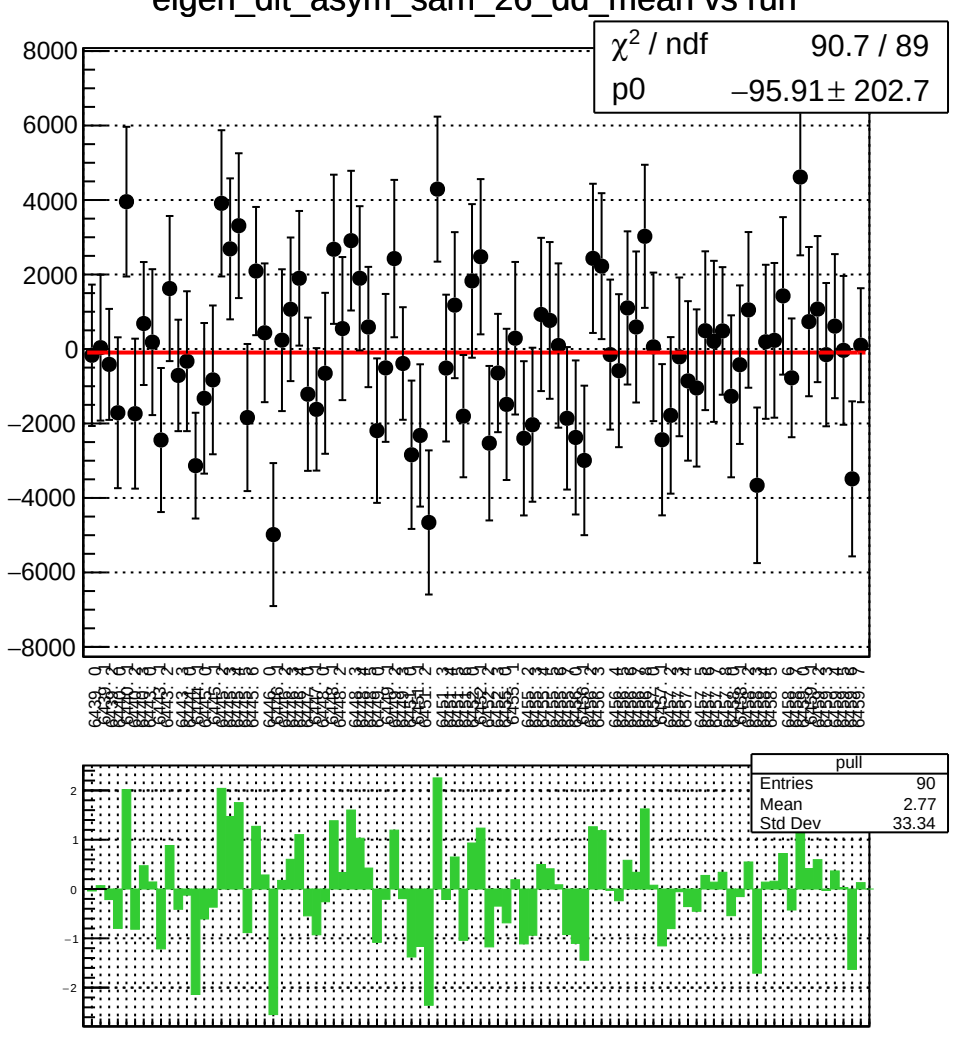

pull1D
Entries 90
Mean 0.009539
Std Dev 1.004

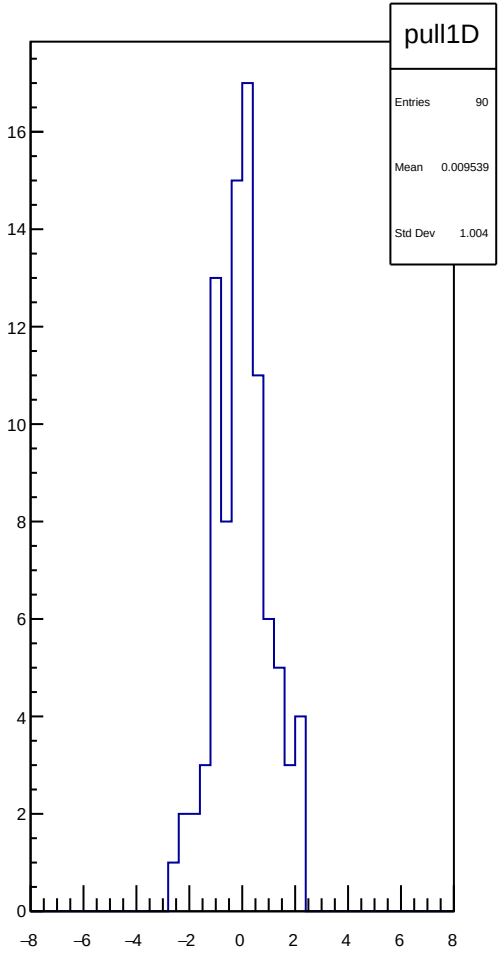

dit_asym_sam_26_dd_rms vs run
χ² / ndf 3071 / 89
p0 191.2 ± 0.1433
210
205
200
195
190
185
180
175

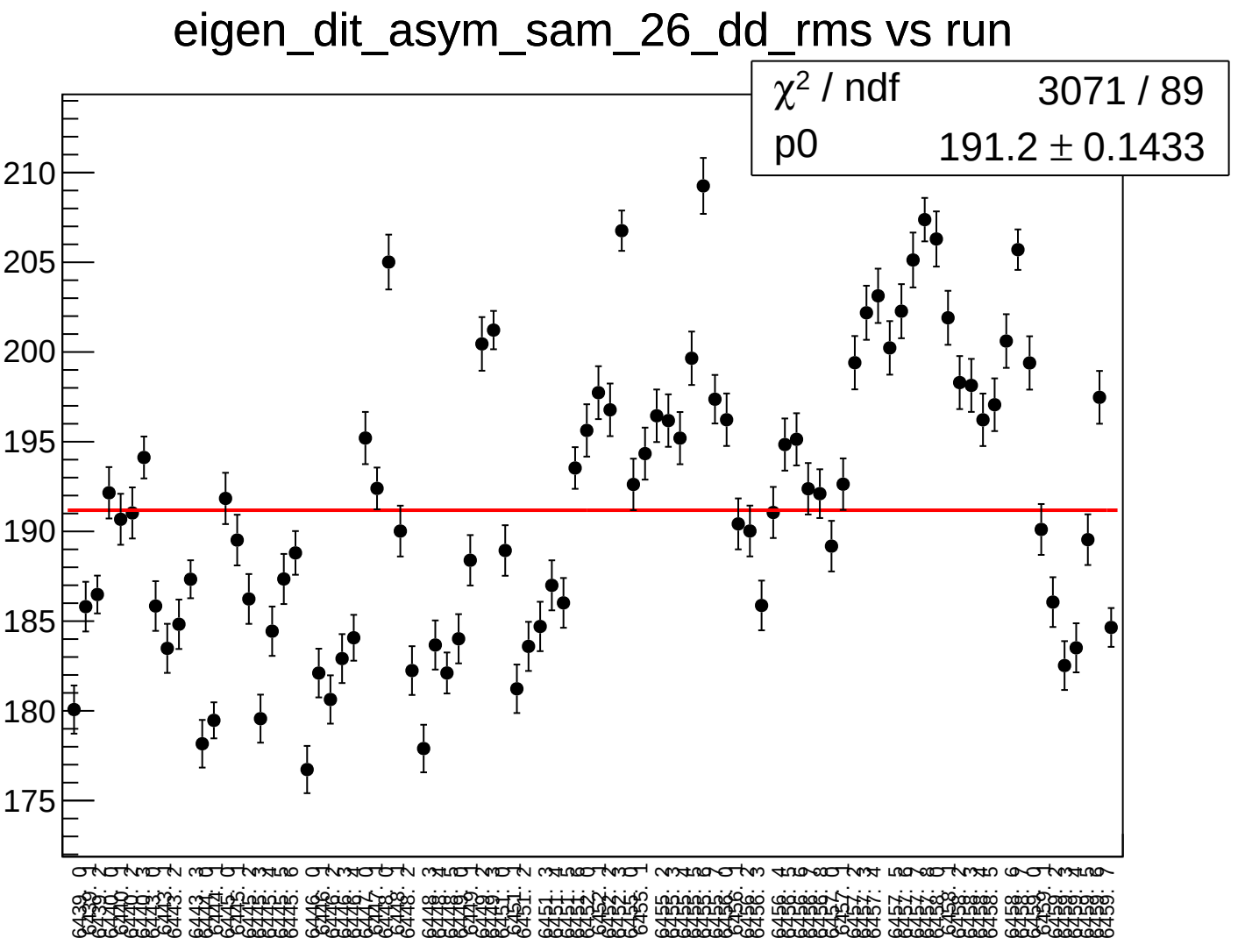

asym_sam_26_dd_dit_correction_mean vs run
χ² / ndf 72.86 / 89
p0 −3929 ± 1604
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −23.65
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

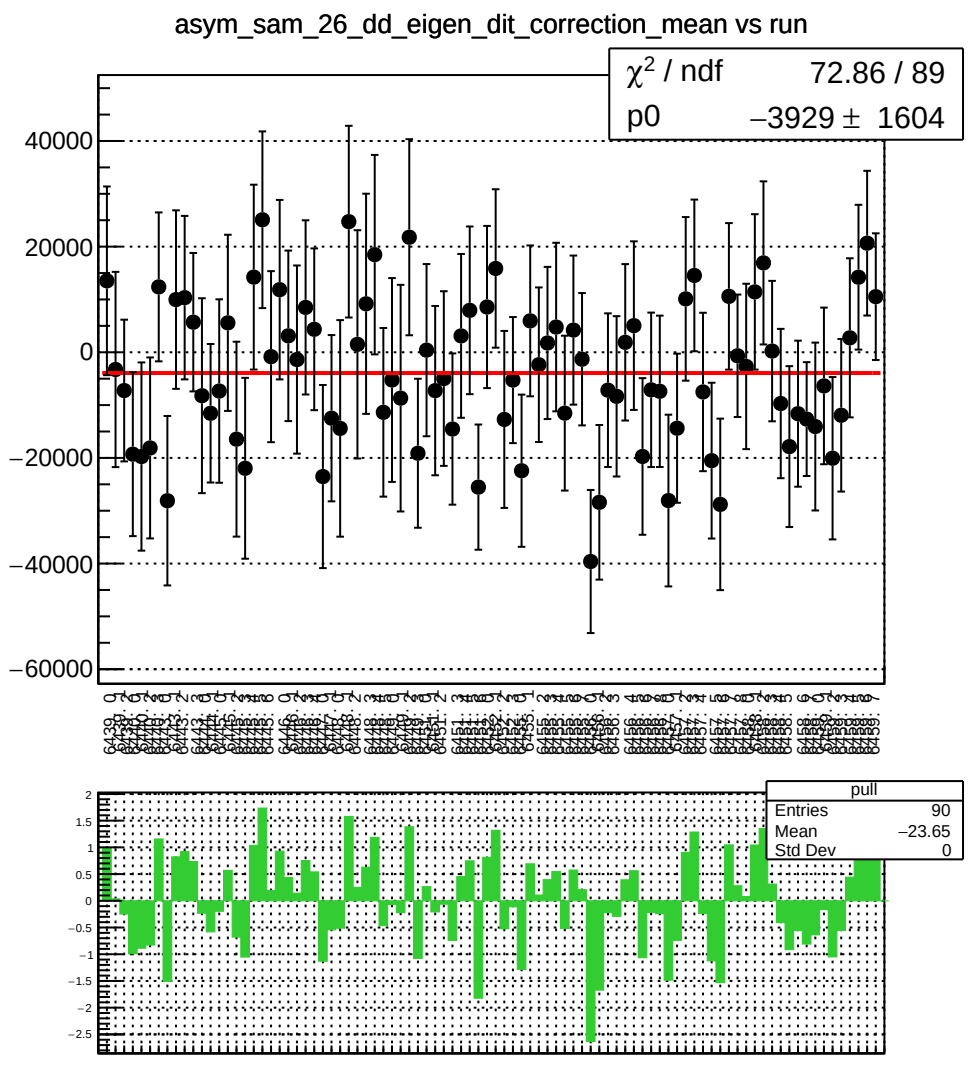

pull1D
Entries 90
Mean 0.01243
Std Dev 0.8996
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

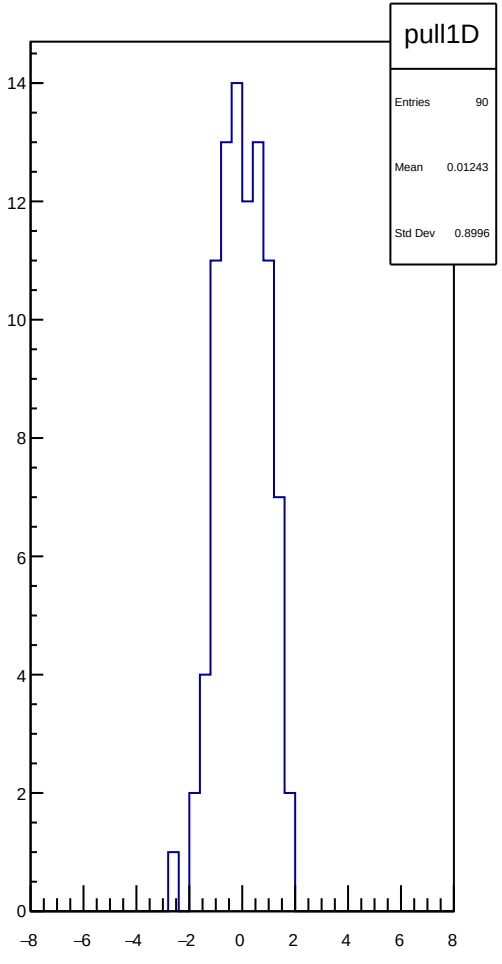

asym_sam_26_dd_dit_correction_rms vs run
χ² / ndf 2.107e+04 / 89
p0 1505 ± 1.134
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200

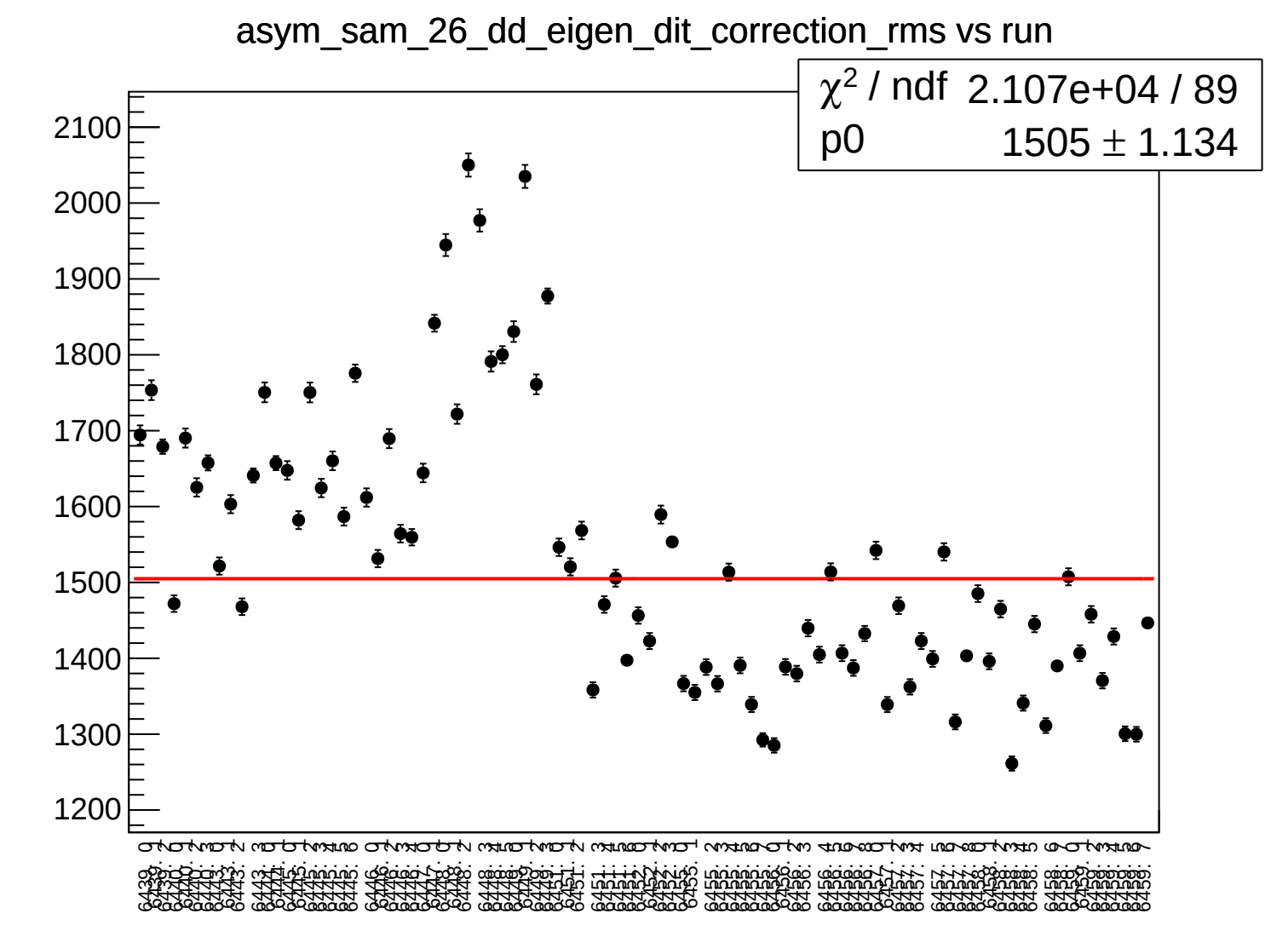

eigen_dit_asym_sam_26_dd_mean vs run
χ^2 / ndf 90.7 / 89
p0 −95.91± 202.7
pull
Entries 90
Mean 2.77
Std Dev 33.34

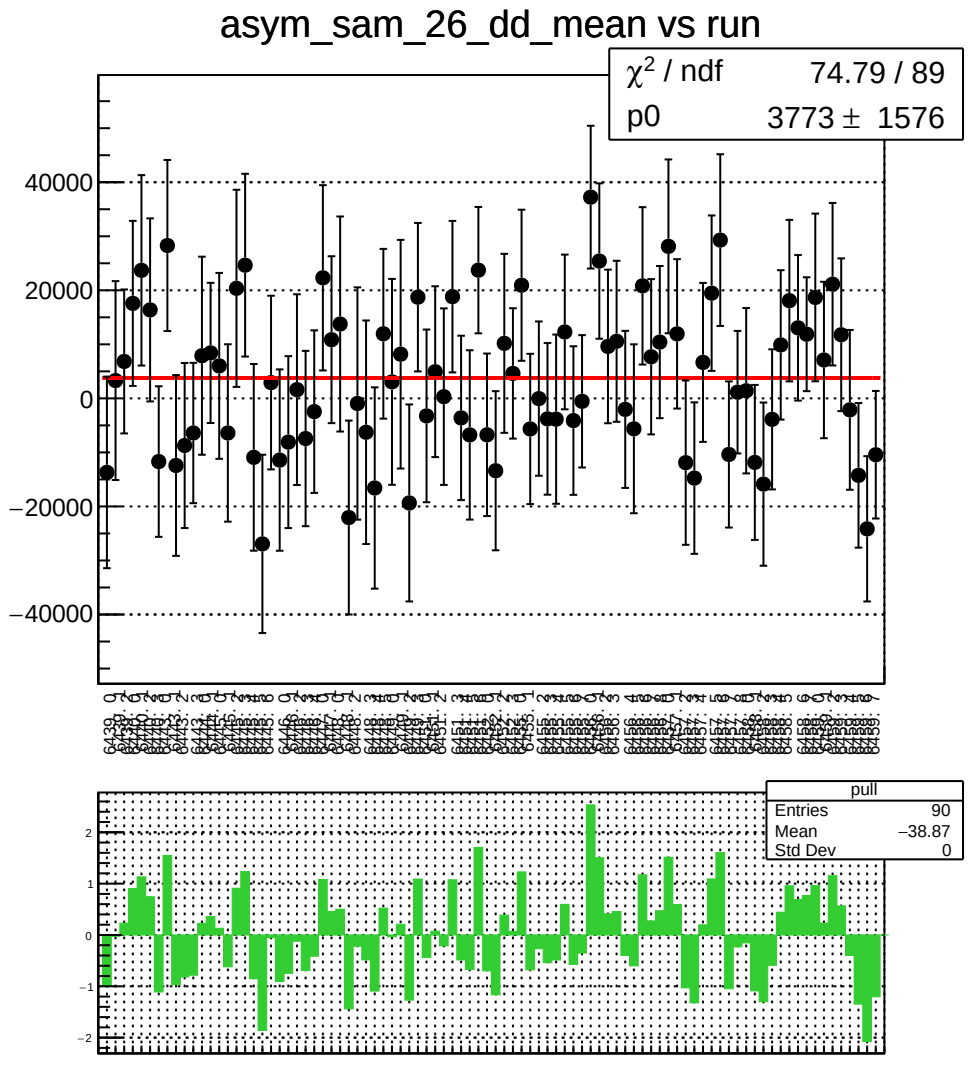

pull1D
Entries 90
Mean 0.009539
Std Dev 1.004

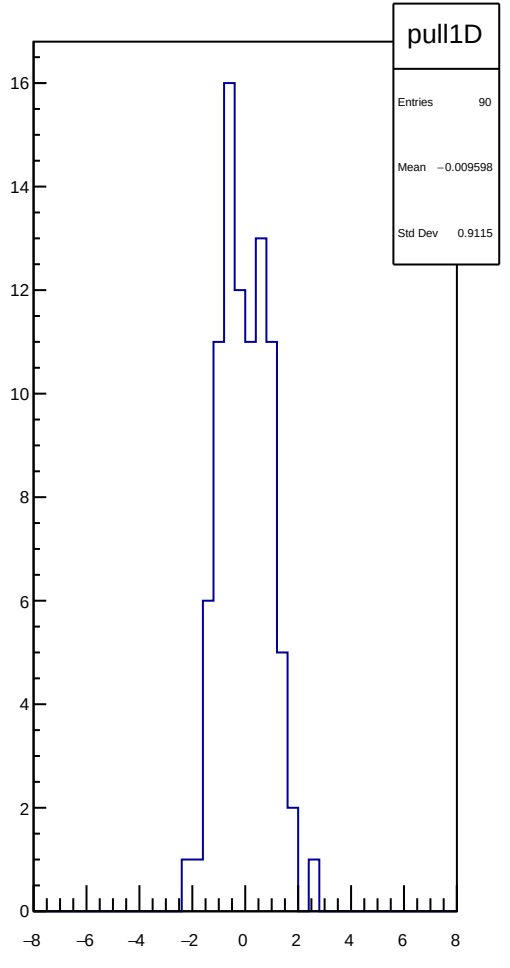

eigen_dit_asym_sam_26_dd_rms vs run
χ² / ndf 3071 / 89
p0 191.2 ± 0.1433
210
205
200
195
190
185
180
175

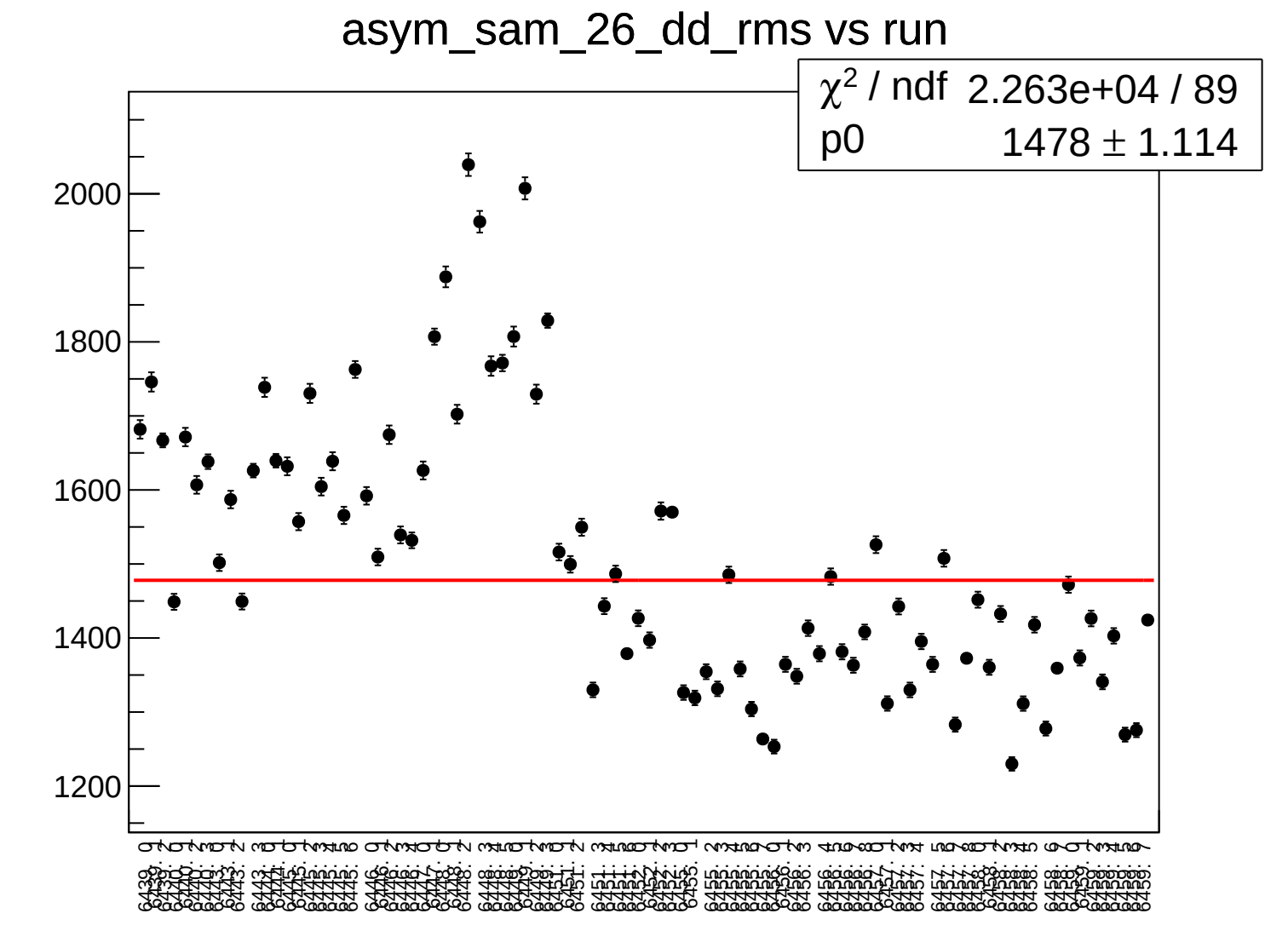

asym_sam_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 72.86 / 89
p0 −3929 ± 1604
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −23.65
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

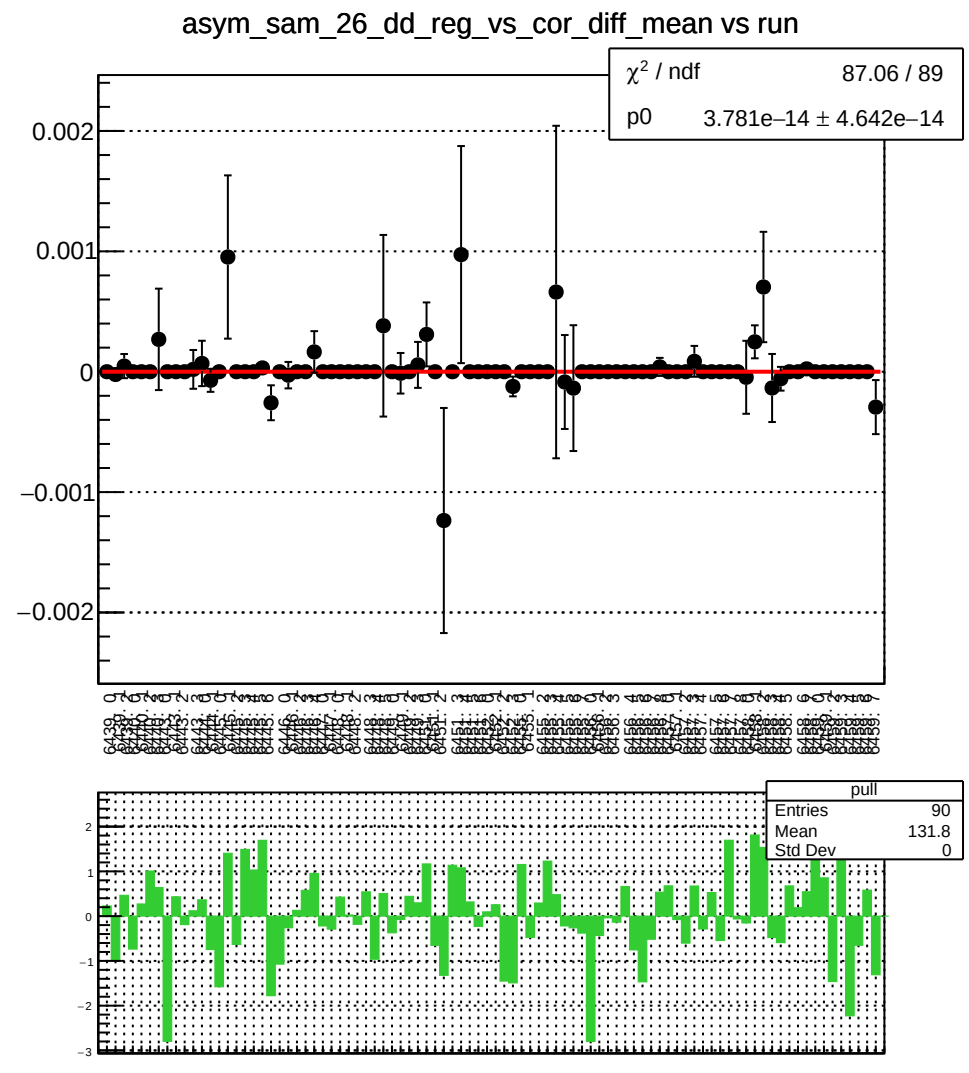

pull1D
Entries 90
Mean 0.01243
Std Dev 0.8996
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

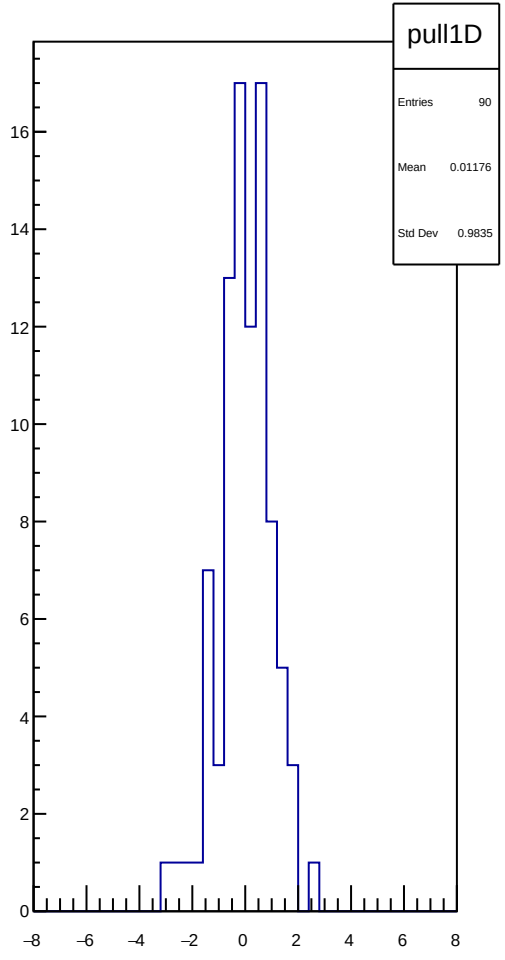

asym_sam_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.107e+04 / 89
p0 1505 ± 1.134
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200

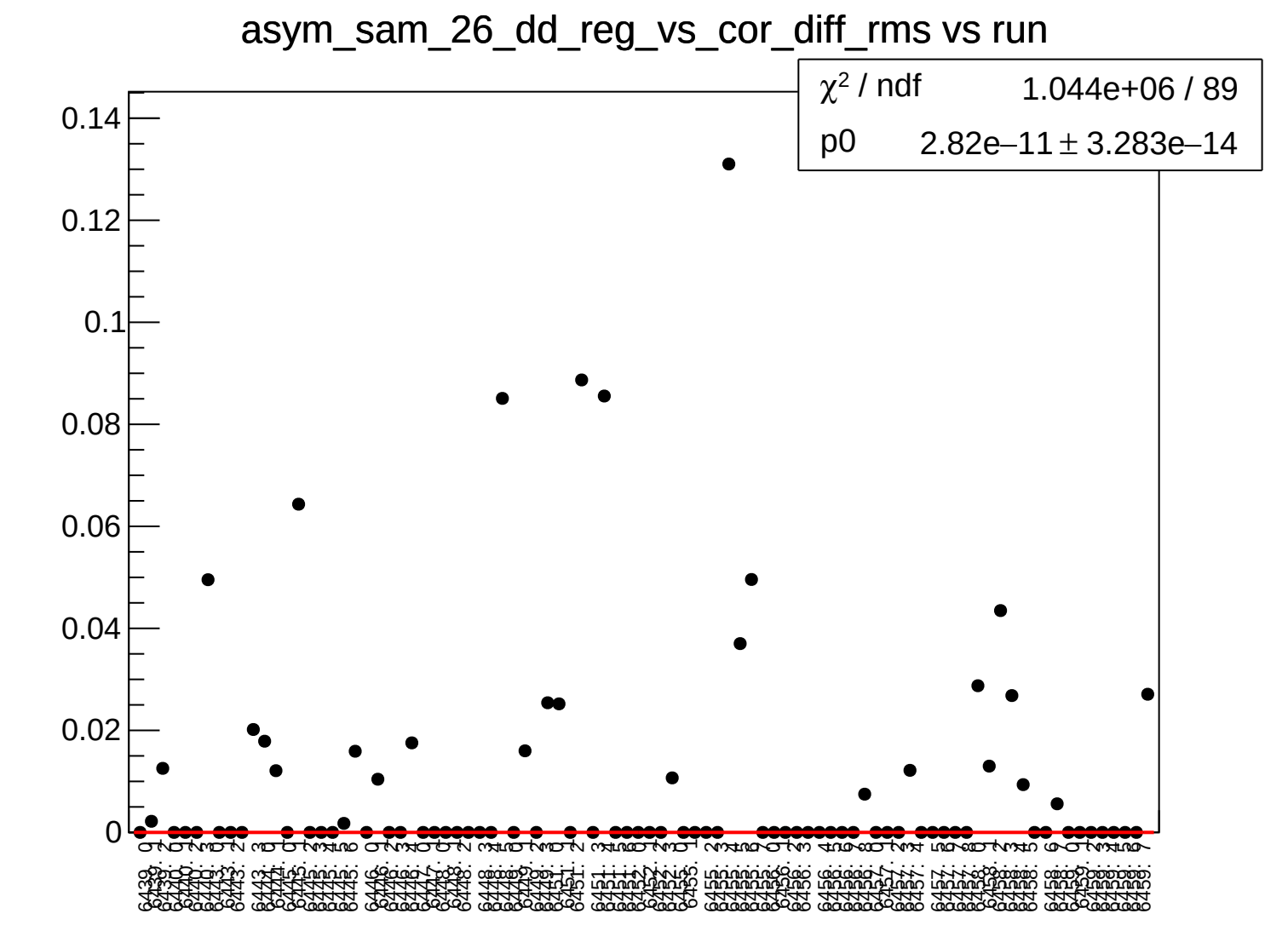

asym_sam_26_dd_mean vs run
χ² / ndf 74.79 / 89
p0 3773 ± 1576
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −38.87
Std Dev 0
2
1
0
−1
−2

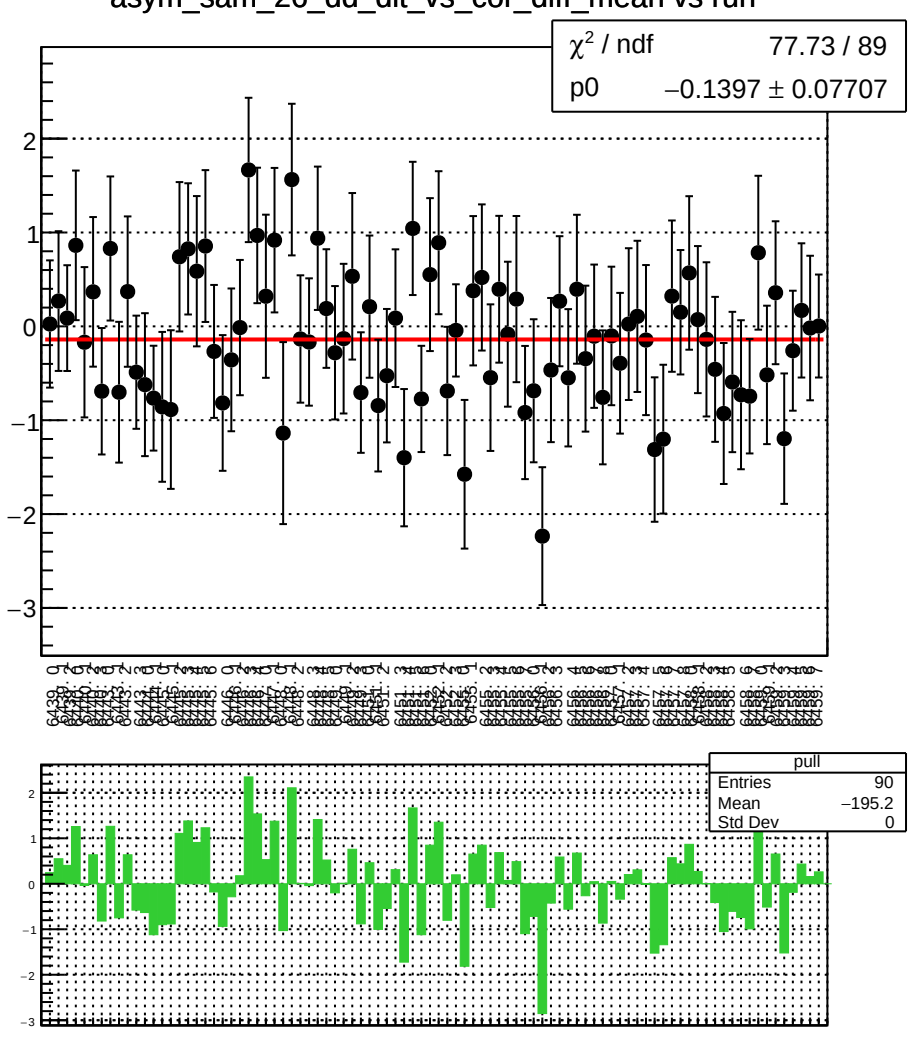

pull1D
Entries 90
Mean −0.009598
Std Dev 0.9115
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

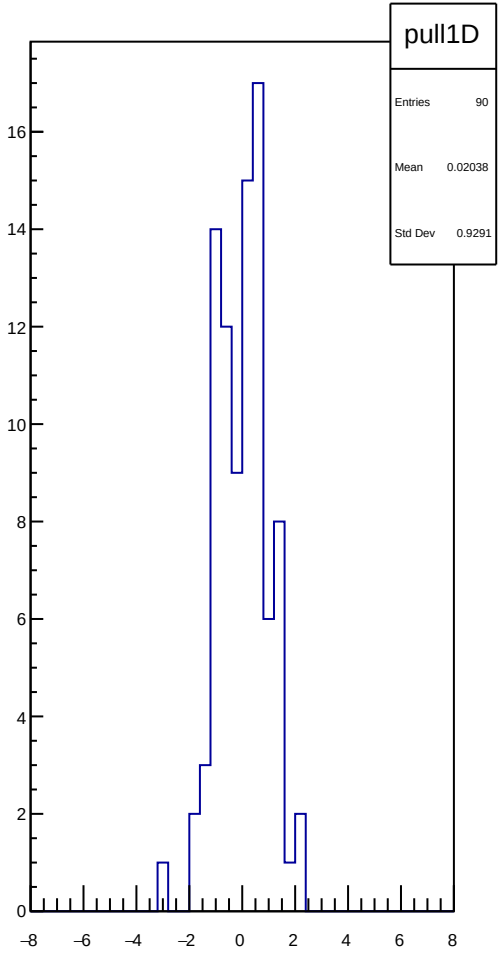

asym_sam_26_dd_rms vs run
χ² / ndf 2.263e+04 / 89
p0 1478 ± 1.114
2000
1800
1600
1400
1200

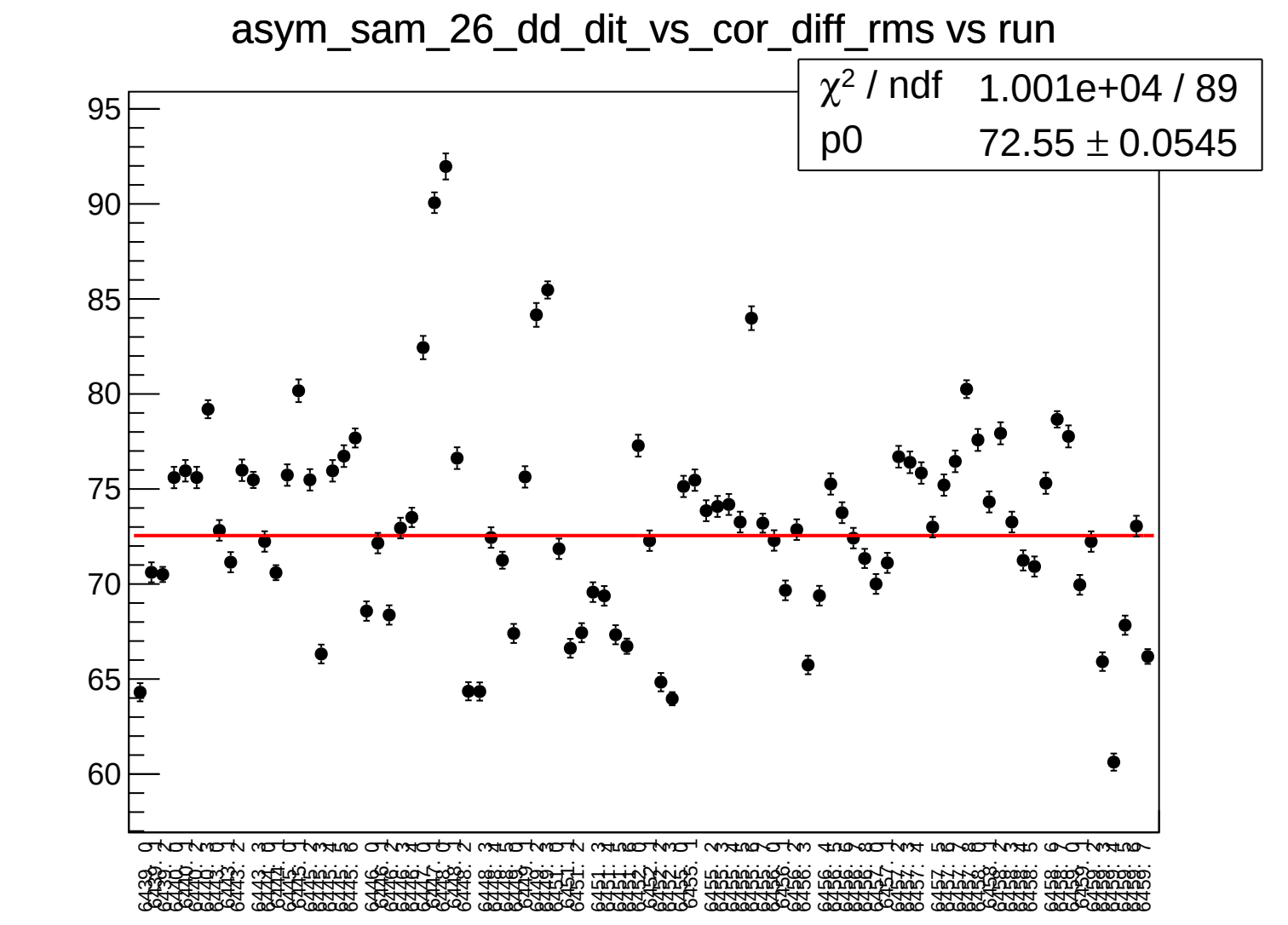

asym_sam_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 87.06 / 89
p0 3.781e−14 ± 4.642e−14
0.002
0.001
0
−0.001
−0.002
pull
Entries 90
Mean 131.8
Std Dev 0
2
1
0
−1
−2
−3

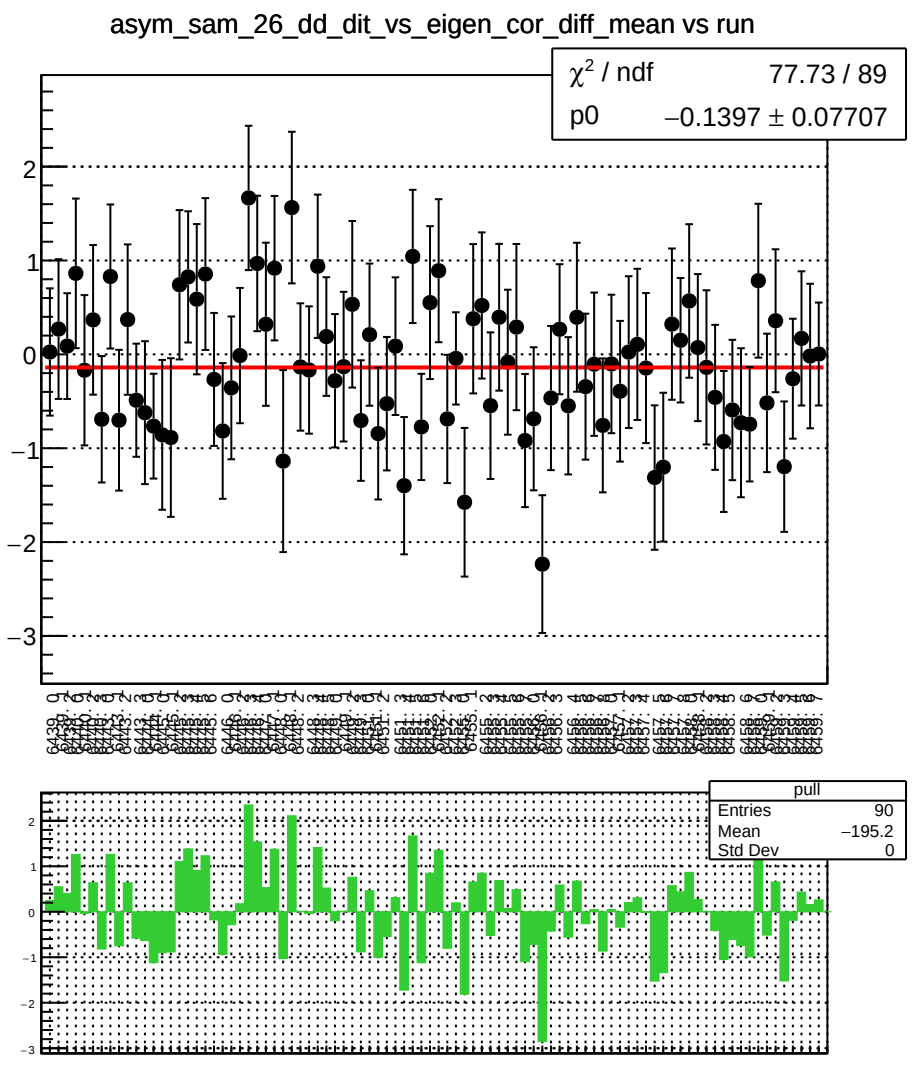

pull1D
Entries 90
Mean 0.01176
Std Dev 0.9835
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

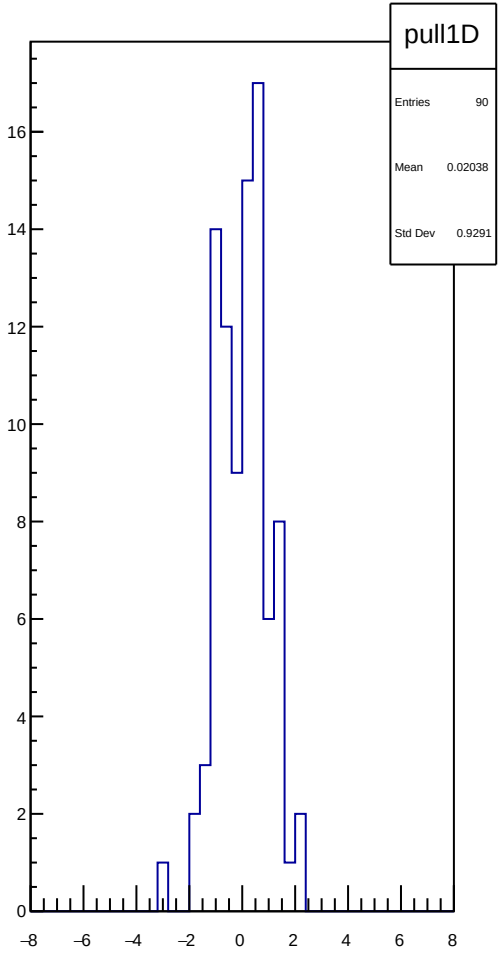

asym_sam_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.044e+06 / 89
p0 2.82e−11 ± 3.283e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

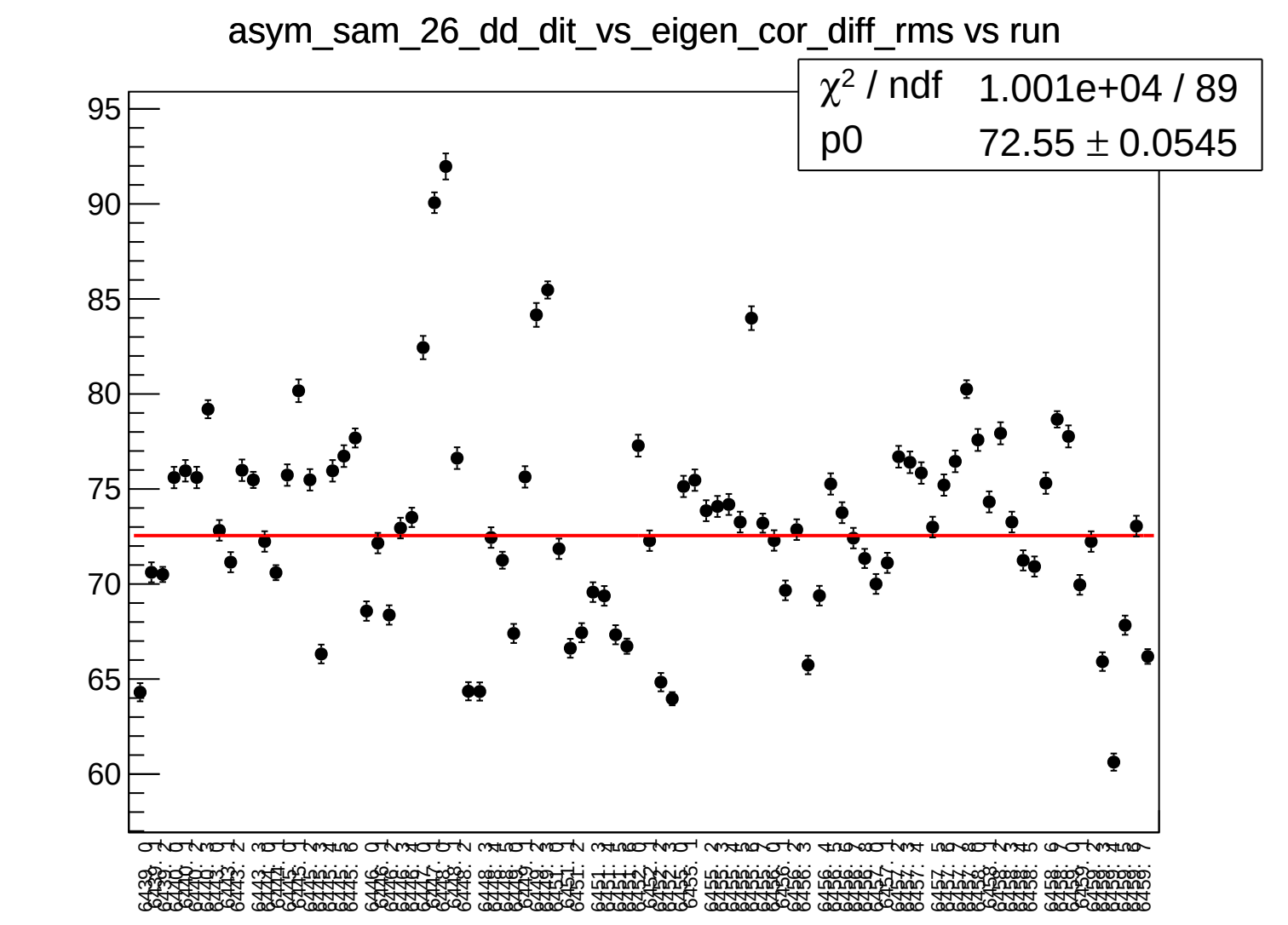

asym_sam_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 77.73 / 89
p0 −0.1397 ± 0.07707
pull
Entries 90
Mean −195.2
Std Dev 0

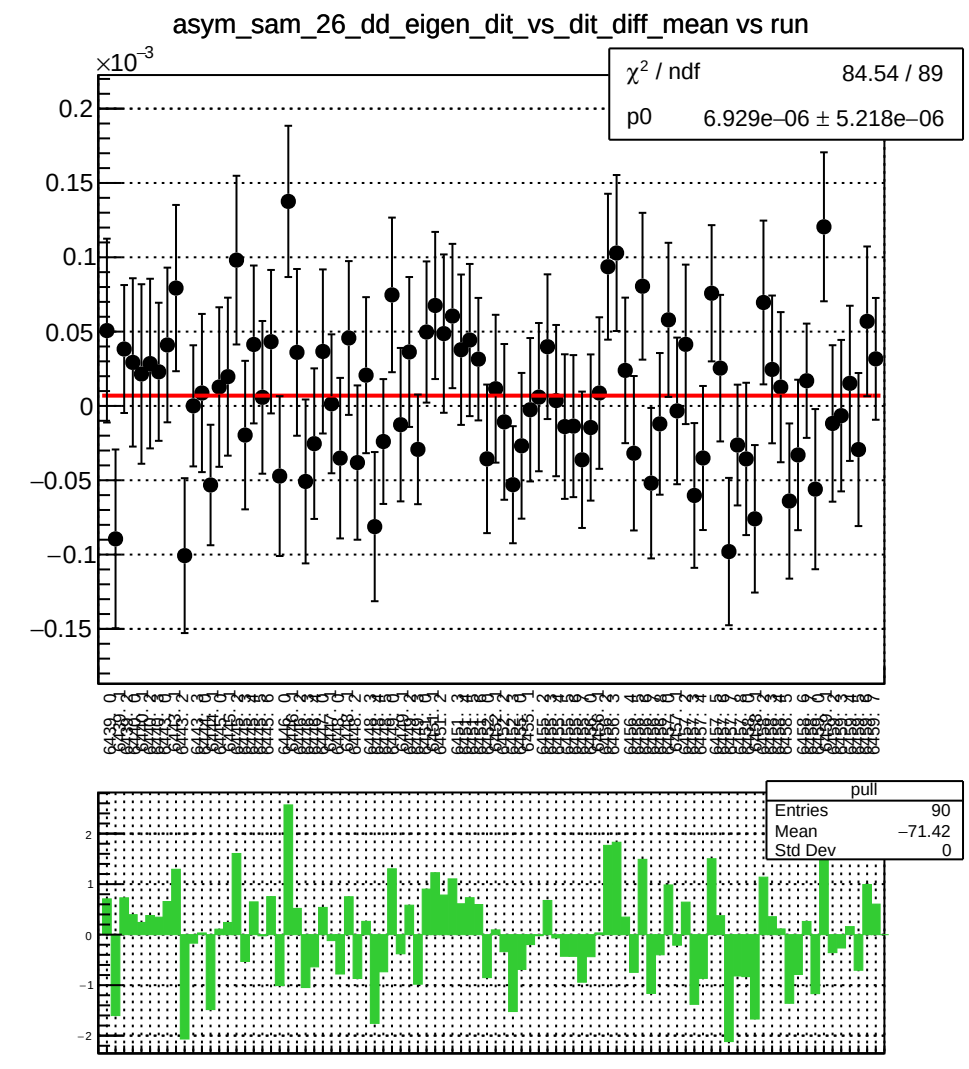

pull1D
Entries 90
Mean 0.02038
Std Dev 0.9291

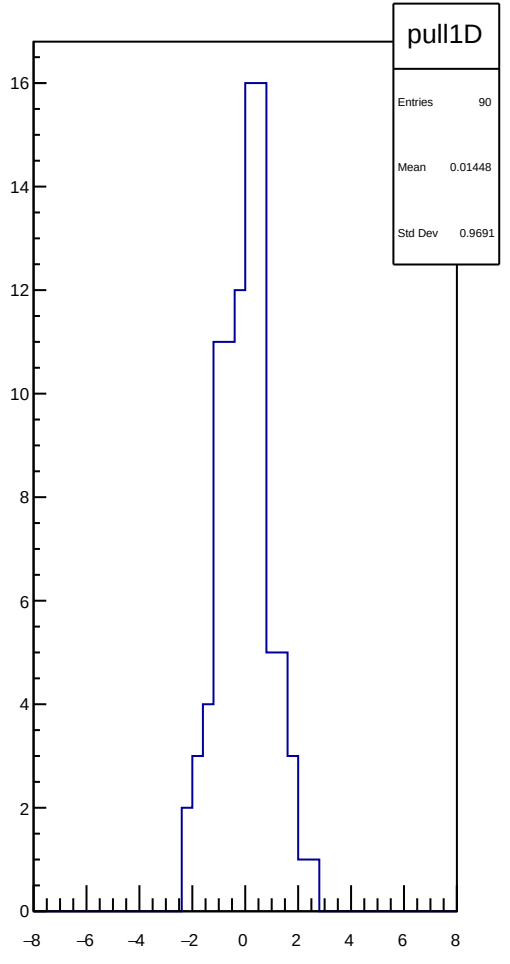

asym_sam_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.001e+04 / 89
p0 72.55 ± 0.0545
95
90
85
80
75
70
65
60

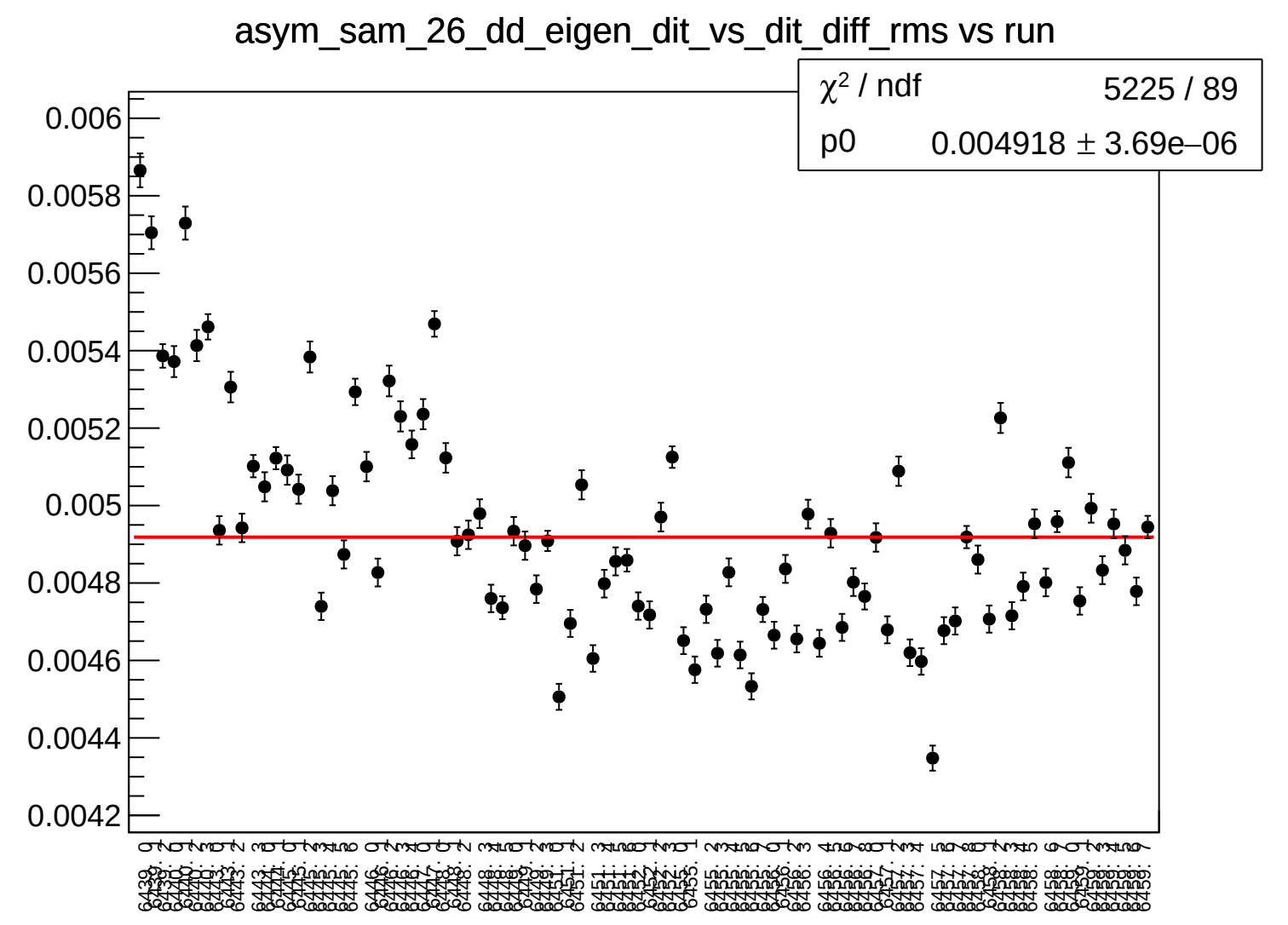

asym_sam_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.73 / 89
p0 −0.1397 ± 0.07707
pull
Entries 90
Mean −195.2
Std Dev 0

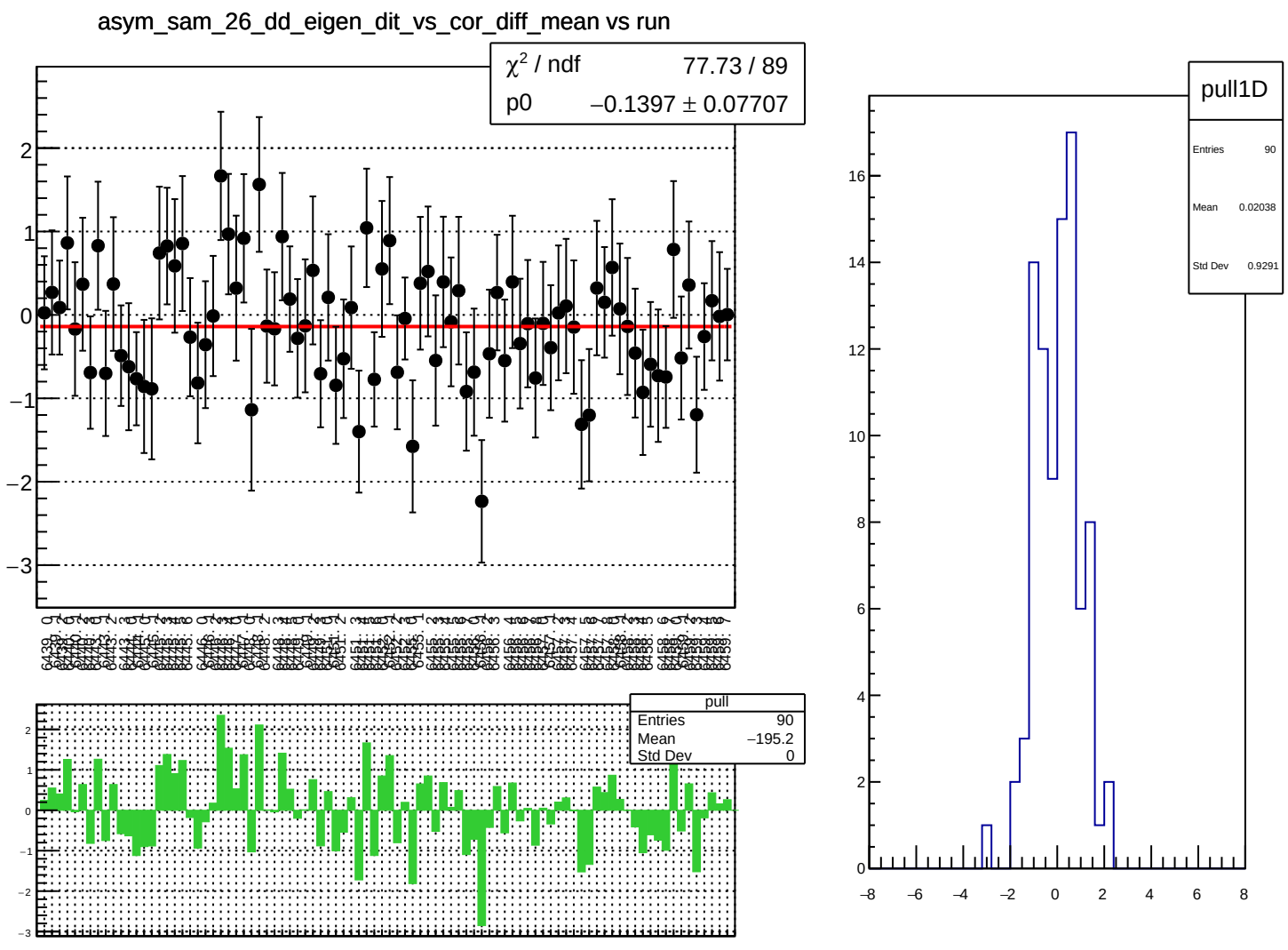

pull1D
Entries 90
Mean 0.02038
Std Dev 0.9291

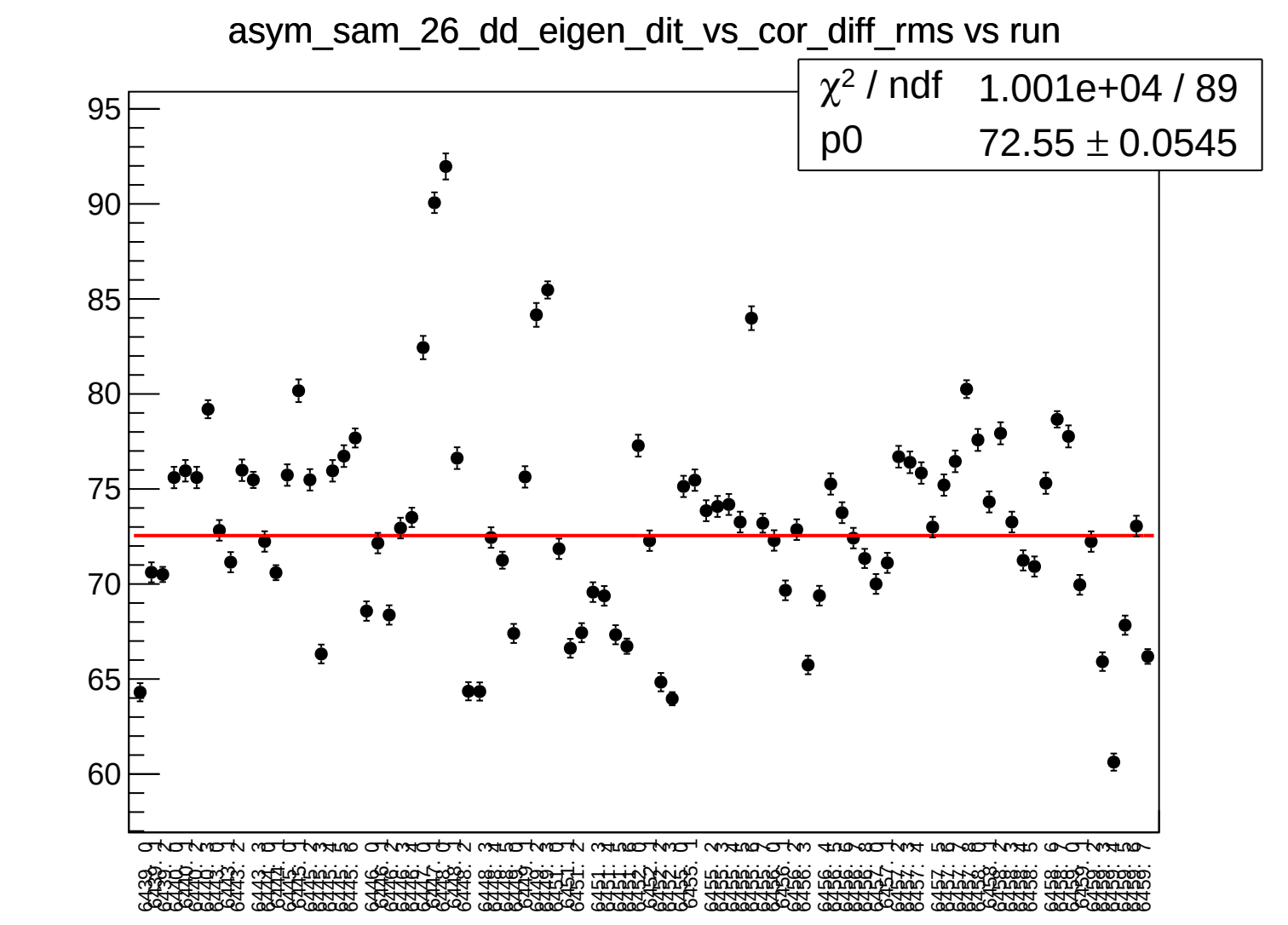

asym_sam_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.001e+04 / 89
p0 72.55 ± 0.0545
95
90
85
80
75
70
65
60

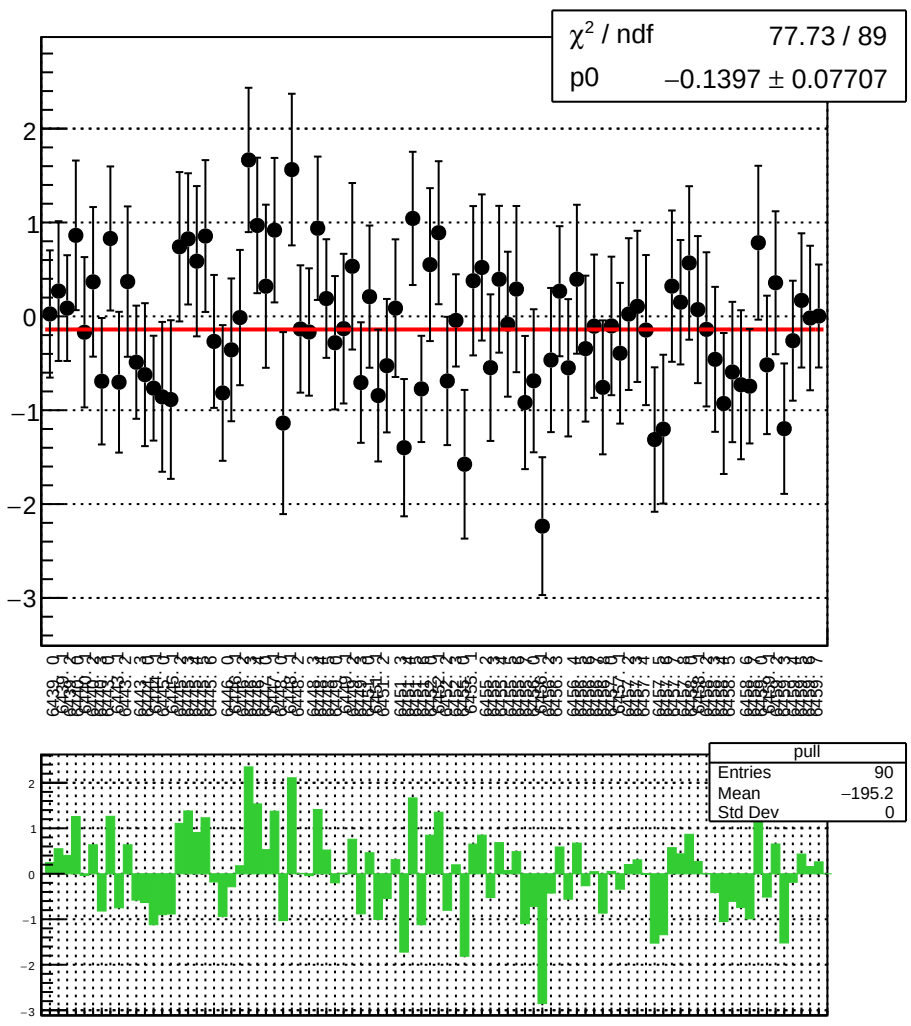

asym_sam_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 84.54 / 89
p0 6.929e−06 ± 5.218e−06
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 90
Mean −71.42
Std Dev 0
2
1
0
−1
−2

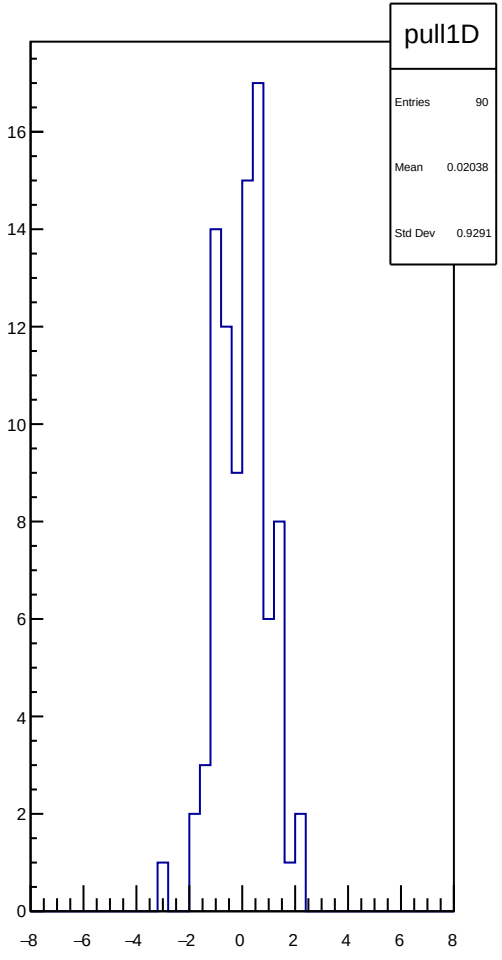

pull1D
Entries 90
Mean 0.01448
Std Dev 0.9691
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

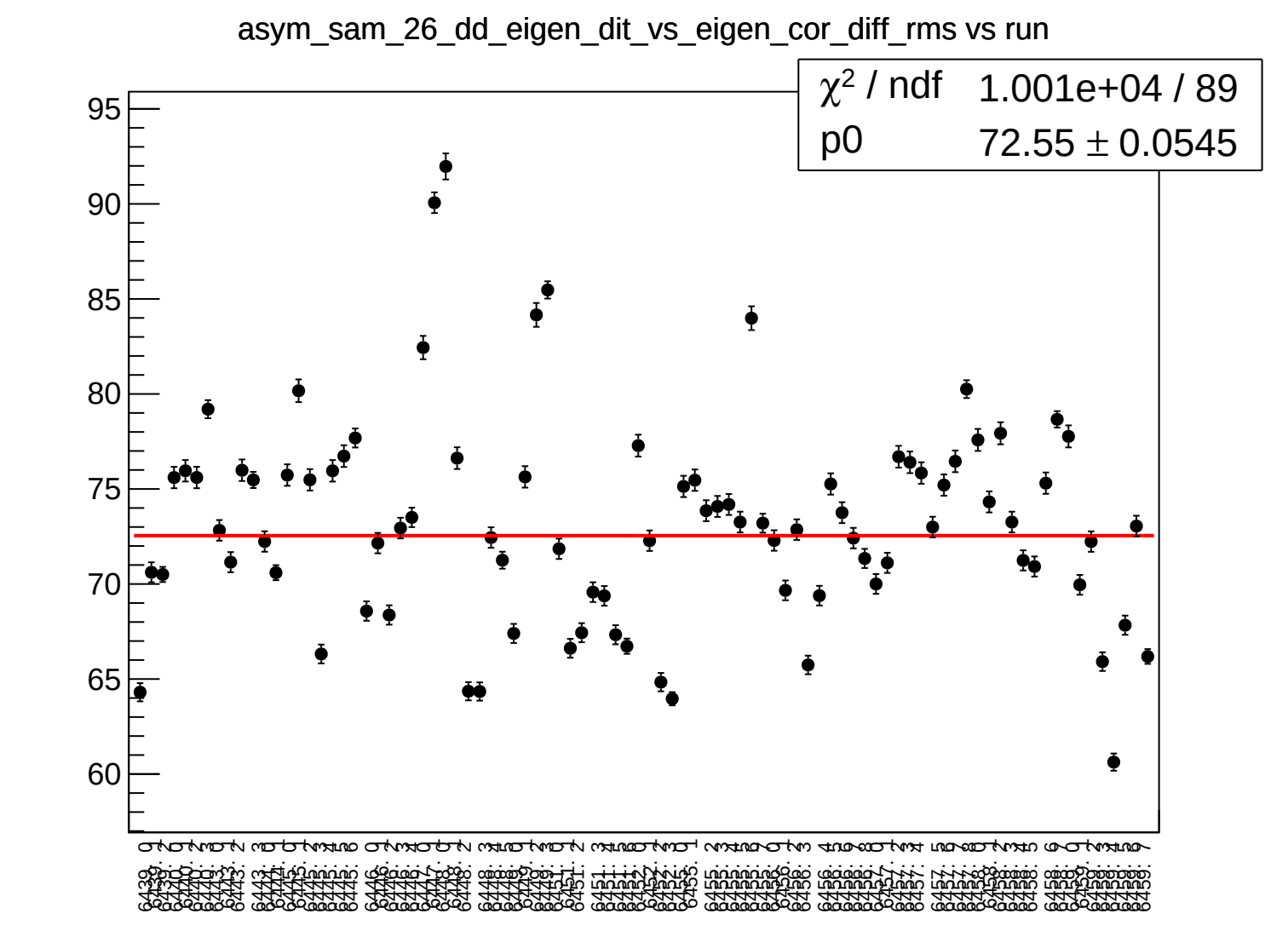

asym_sam_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5225 / 89
p0 0.004918 ± 3.69e−06
0.006
0.0058
0.0056
0.0054
0.0052
0.005
0.0048
0.0046
0.0044
0.0042

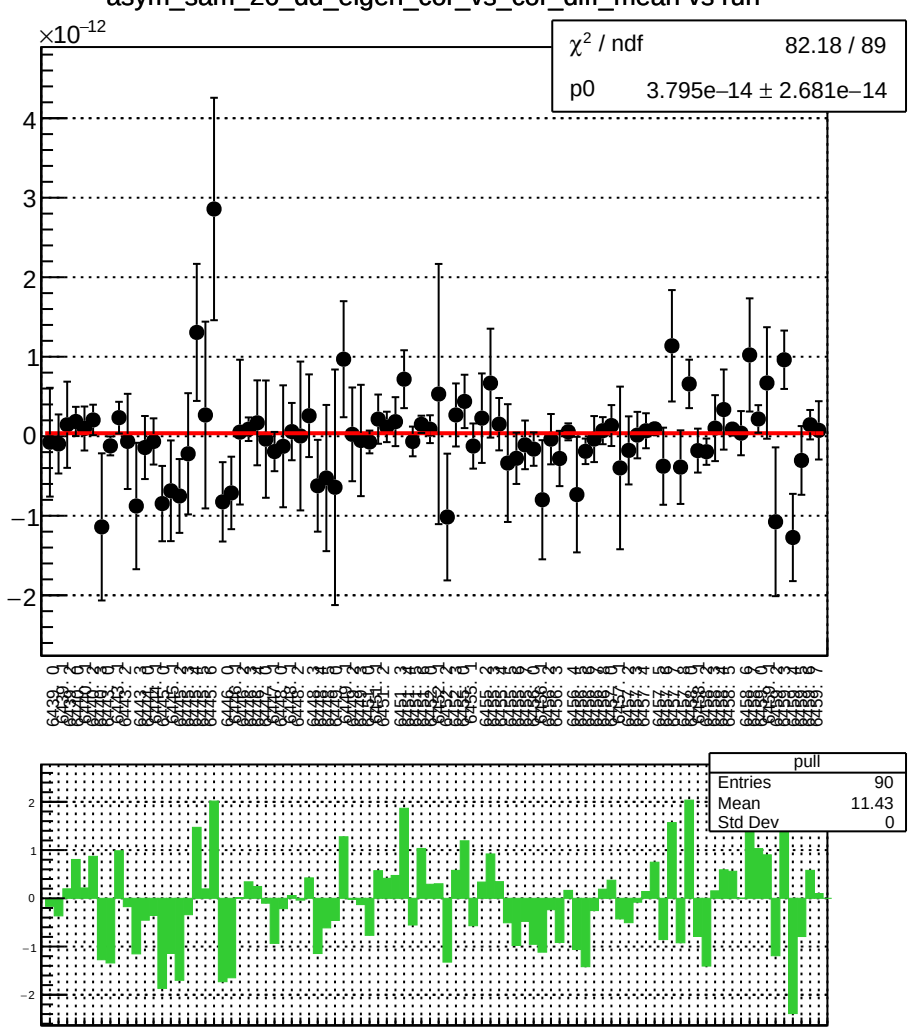

asym_sam_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.73 / 89
p0 −0.1397 ± 0.07707
pull
Entries 90
Mean −195.2
Std Dev 0
pull1D
Entries 90
Mean 0.02038
Std Dev 0.9291

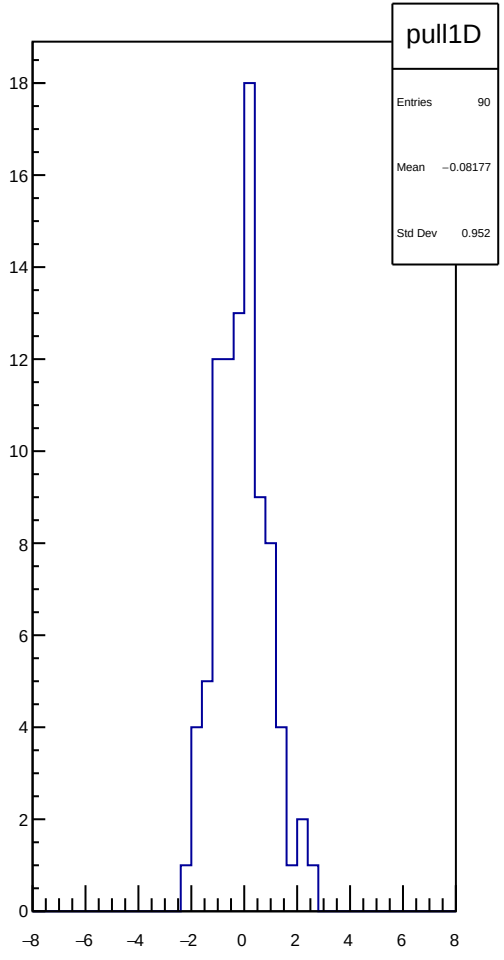

asym_sam_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.001e+04 / 89
p0 72.55 ± 0.0545
95
90
85
80
75
70
65
60

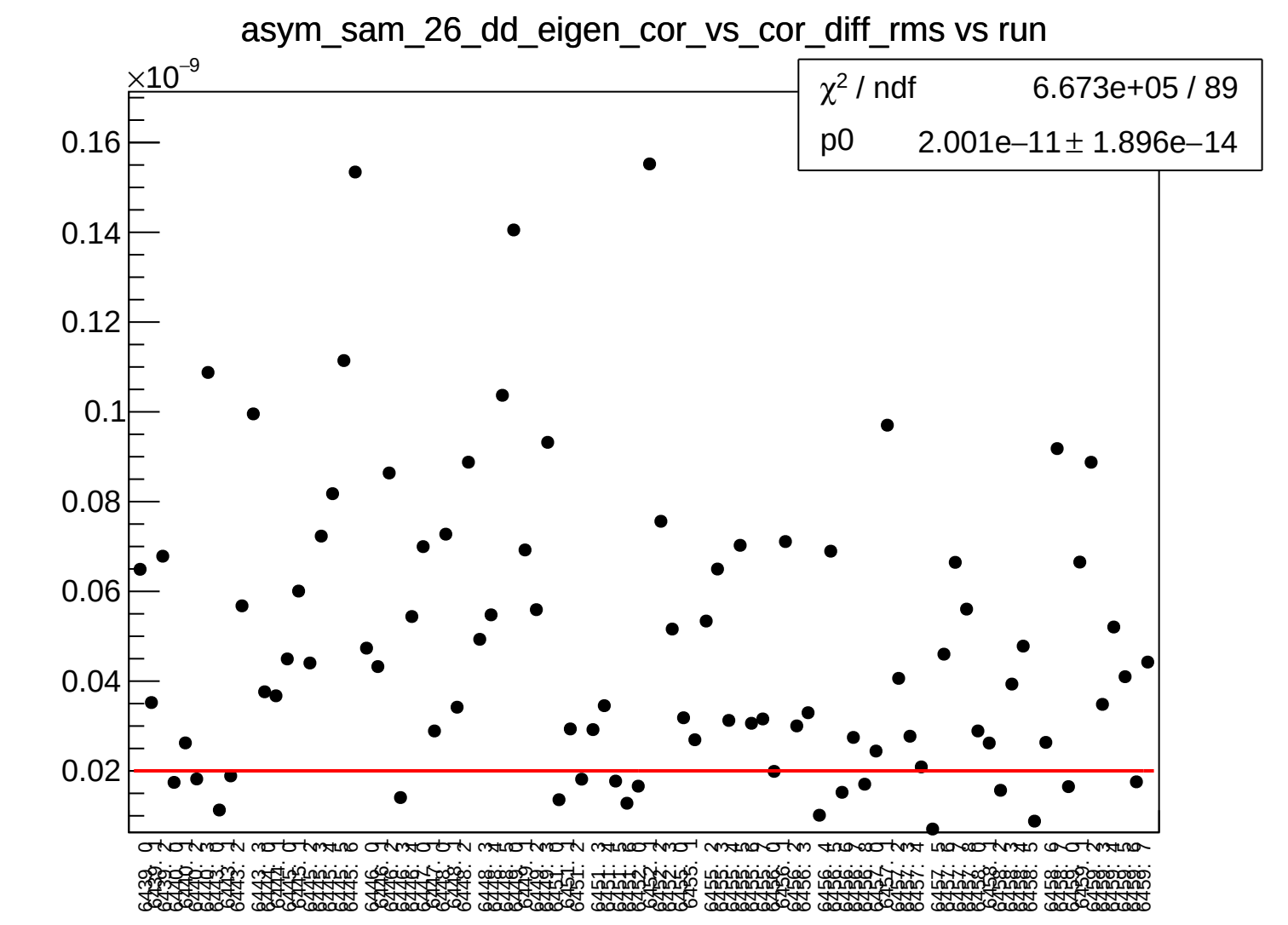

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.73 / 89
p0 −0.1397 ± 0.07707
pull
Entries 90
Mean −195.2
Std Dev 0

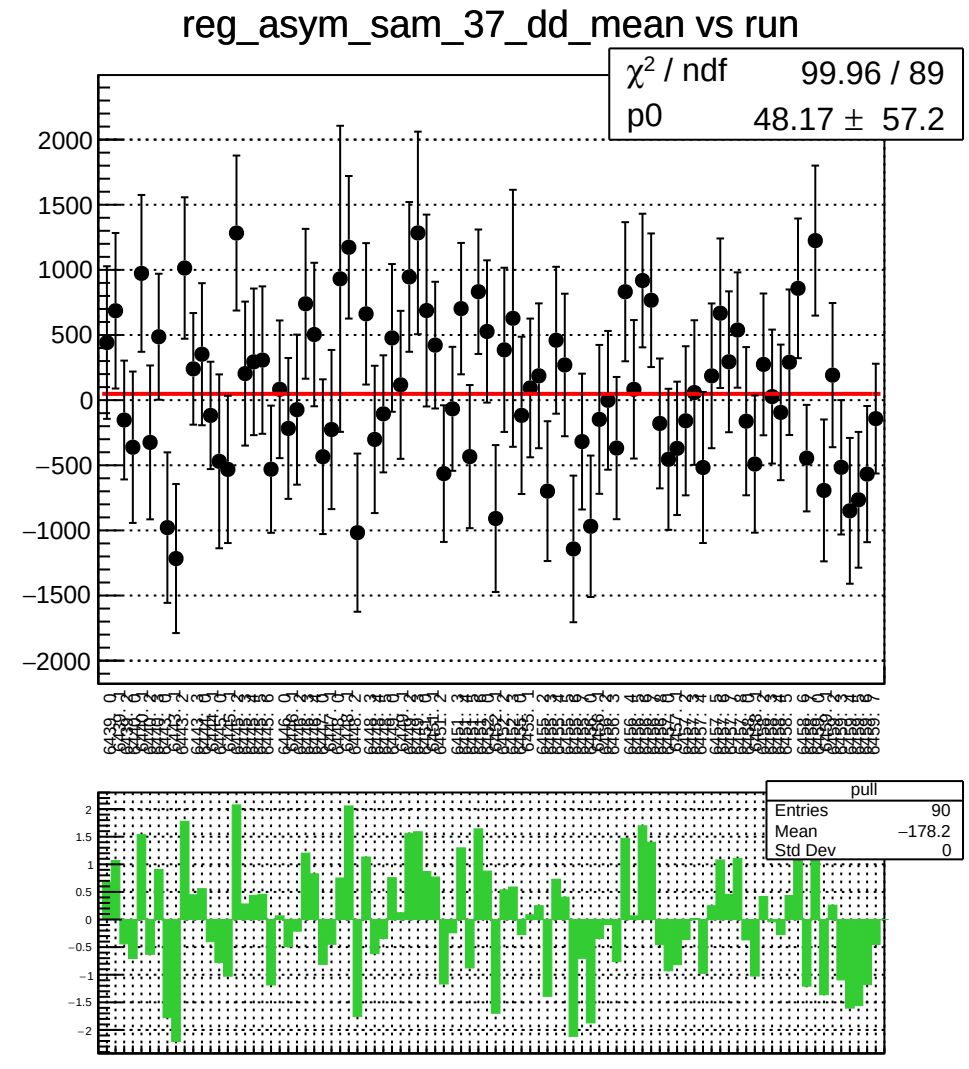

pull1D
Entries 90
Mean 0.02038
Std Dev 0.9291

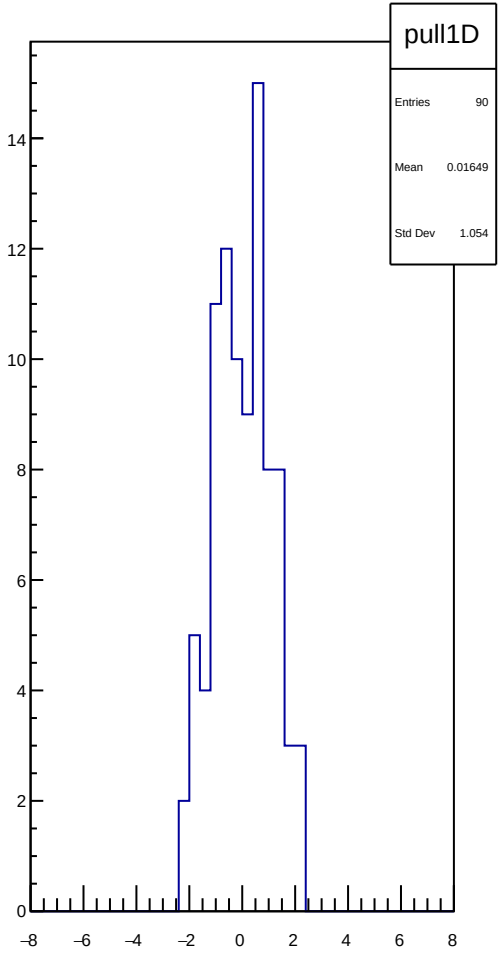

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.001e+04 / 89
p0 72.55 ± 0.0545
95
90
85
80
75
70
65
60

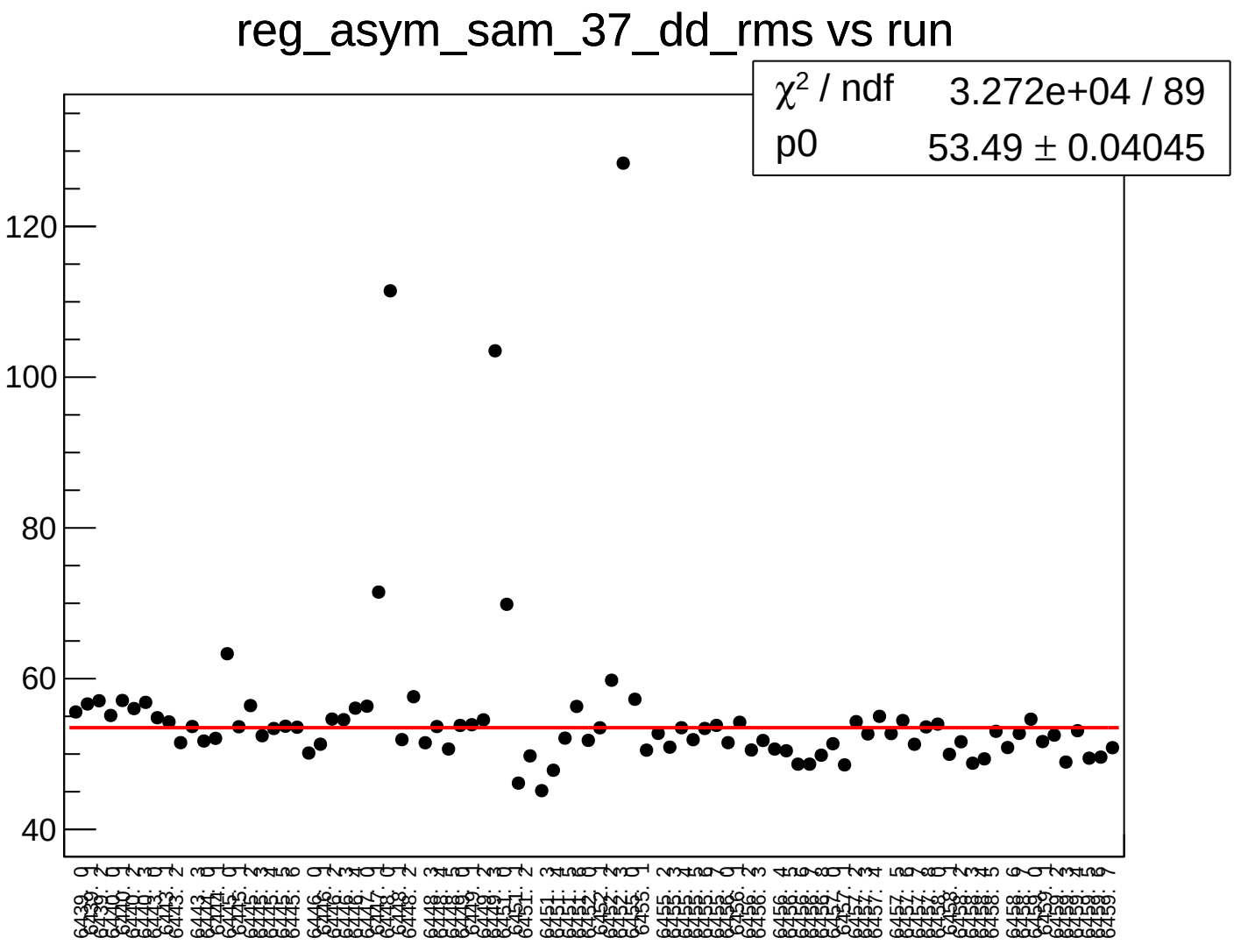

asym_sam_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.18 / 89
p0 3.795e−14 ± 2.681e−14
pull
Entries 90
Mean 11.43
Std Dev 0

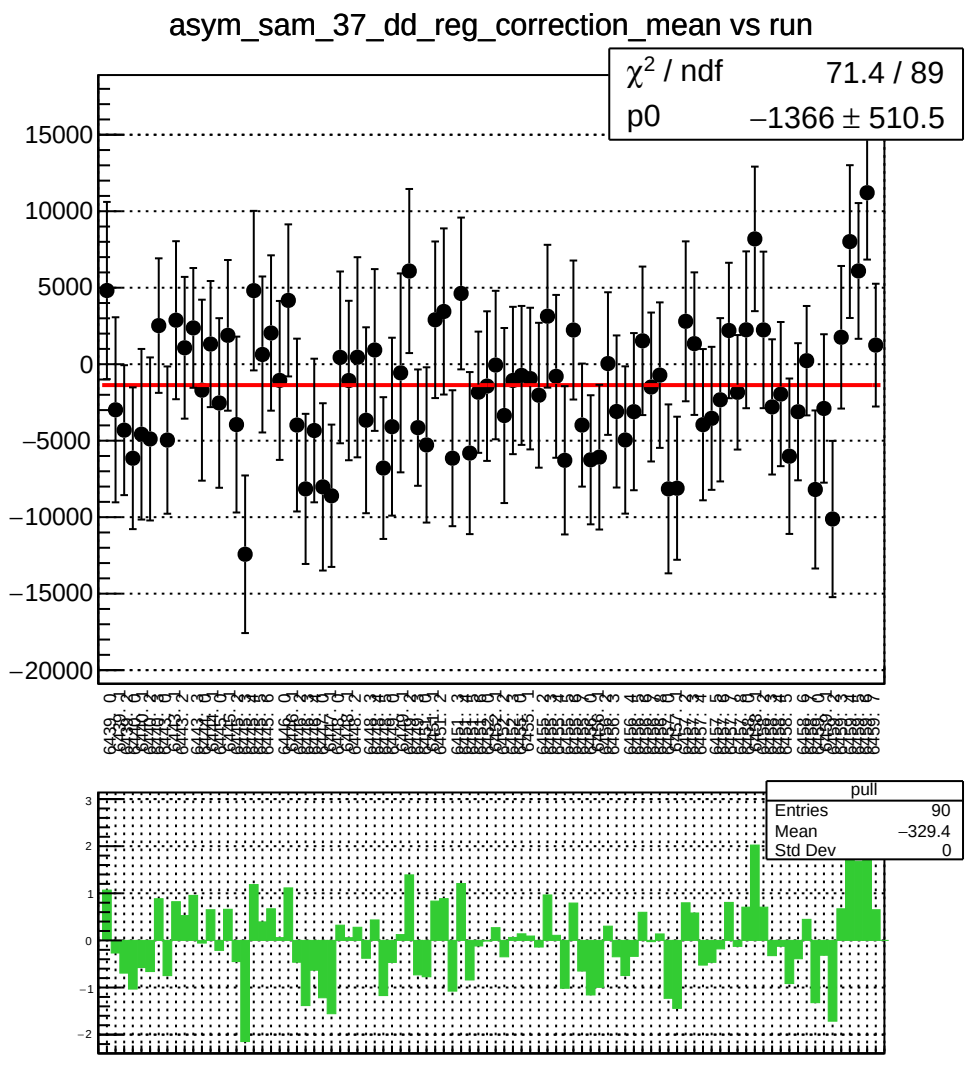

pull1D
Entries 90
Mean −0.08177
Std Dev 0.952

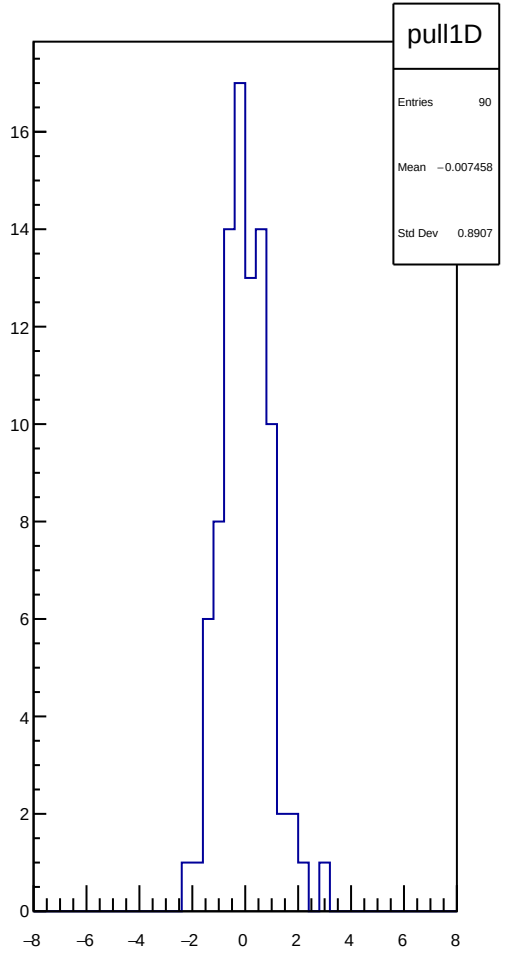

asym_sam_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.673e+05 / 89
p0 2.001e−11 ± 1.896e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

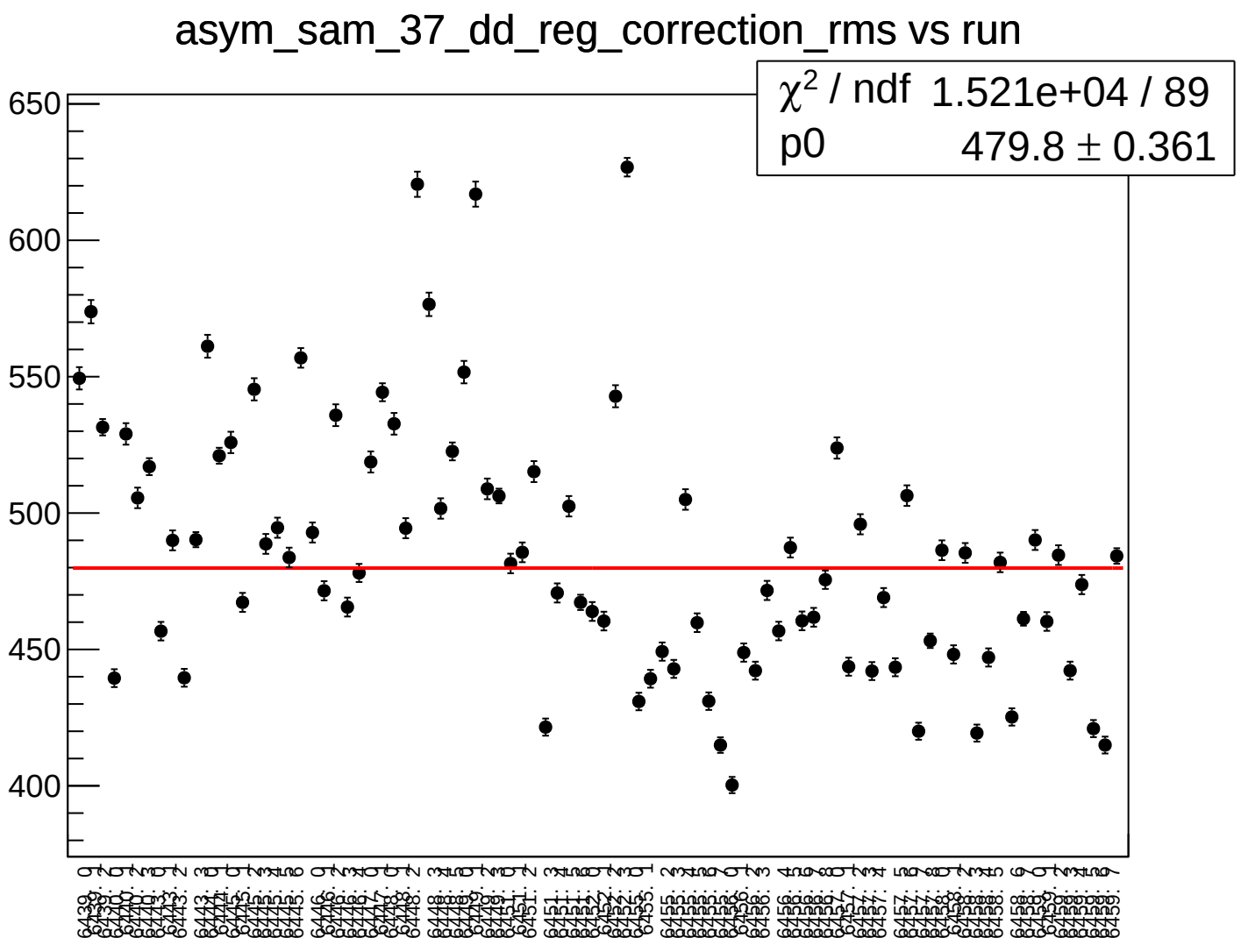

reg_asym_sam_37_dd_mean vs run
χ² / ndf 99.96 / 89
p0 48.17 ± 57.2
pull
Entries 90
Mean −178.2
Std Dev 0

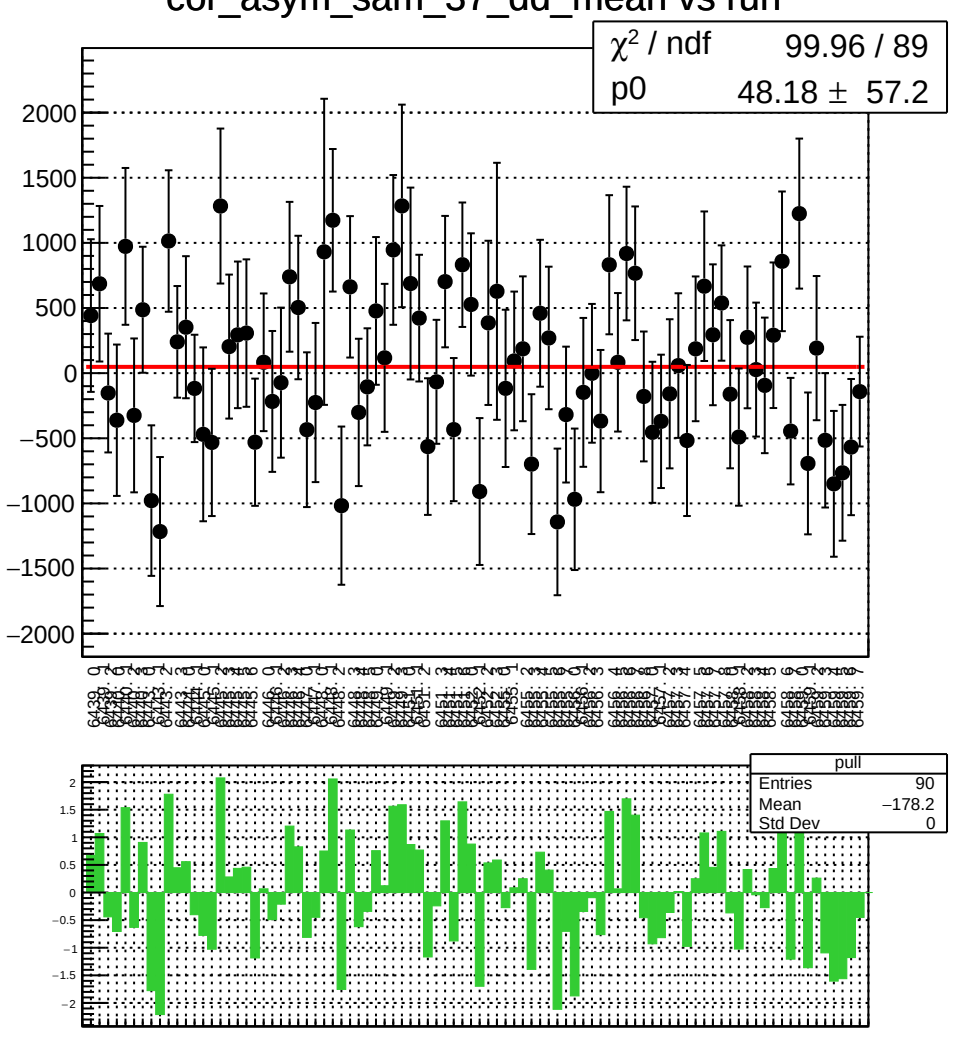

pull1D
Entries 90
Mean 0.01649
Std Dev 1.054

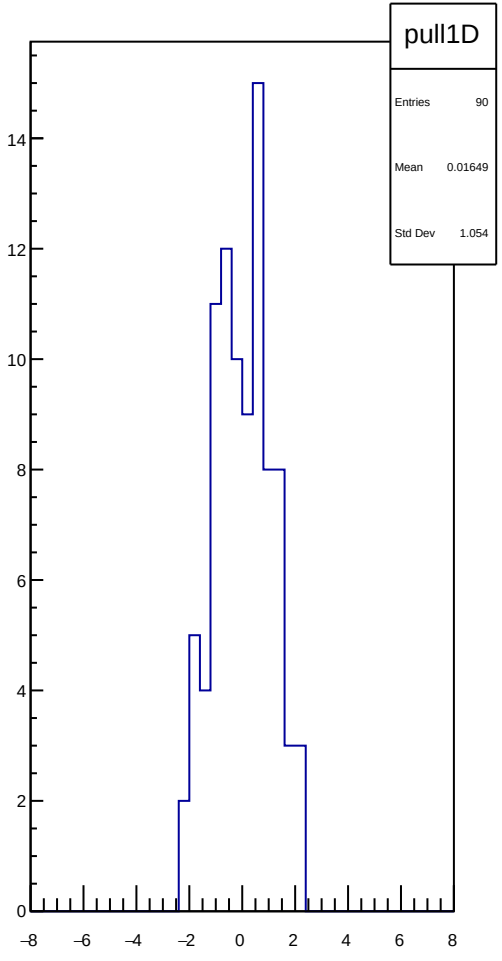

reg_asym_sam_37_dd_rms vs run
χ² / ndf 3.272e+04 / 89
p0 53.49 ± 0.04045
120
100
80
60
40

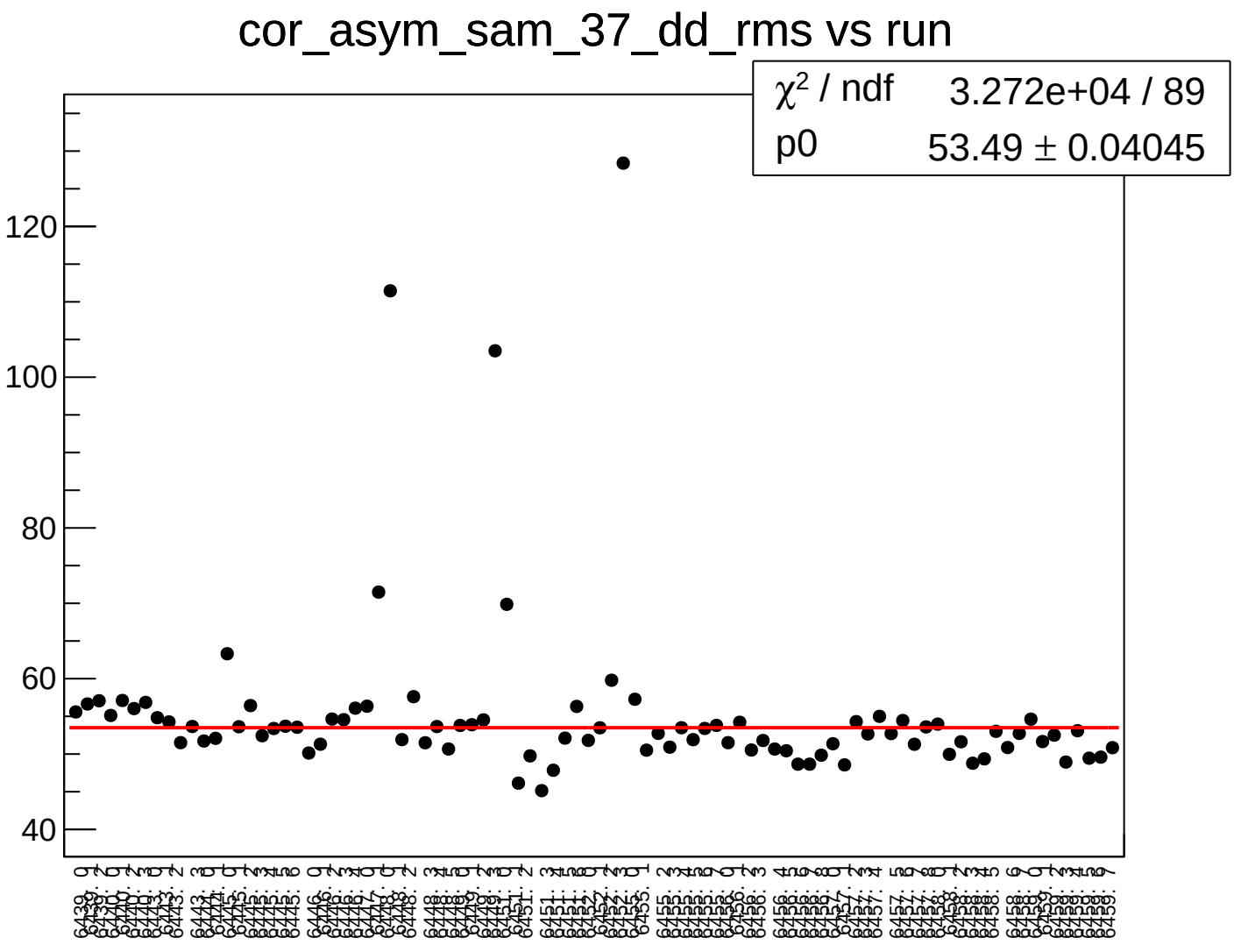

asym_sam_37_dd_reg_correction_mean vs run
χ² / ndf 71.4 / 89
p0 −1366 ± 510.5
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 90
Mean −329.4
Std Dev 0
3
2
1
0
−1
−2

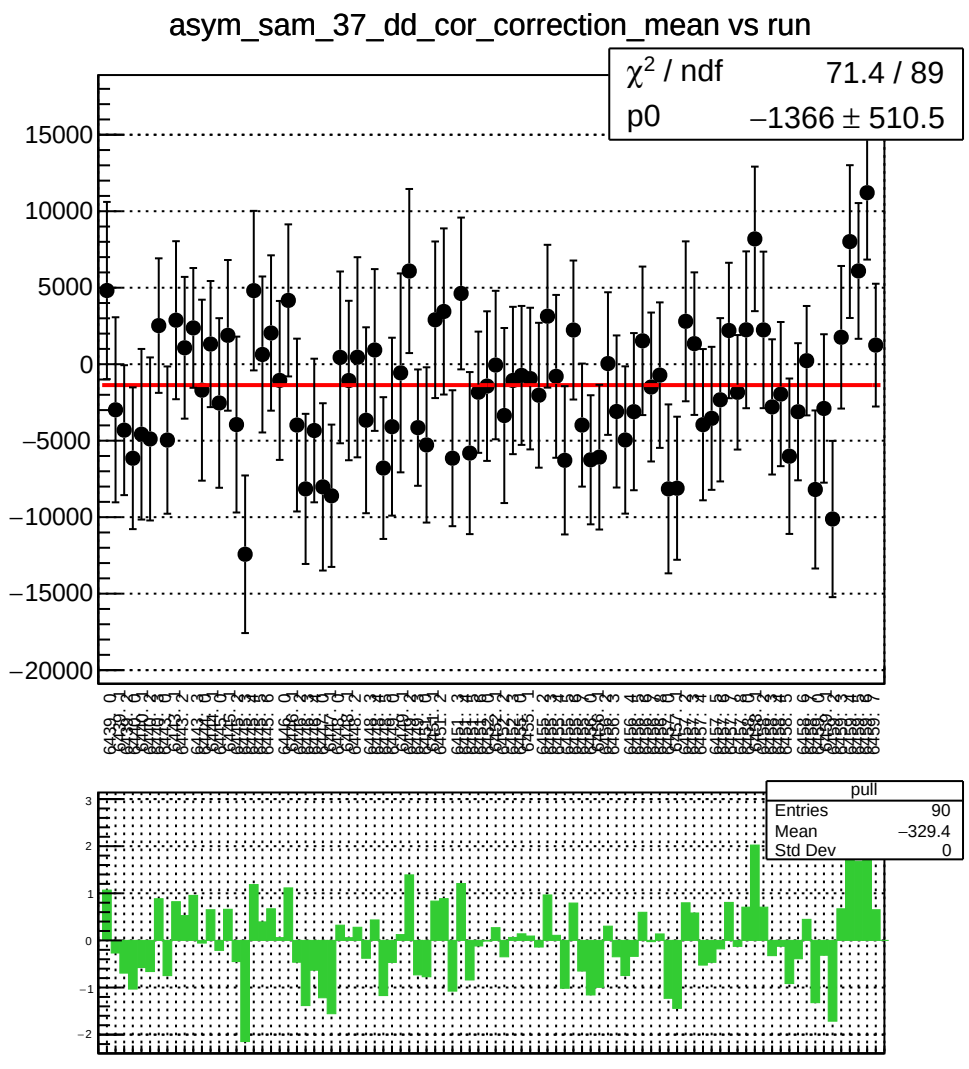

pull1D
Entries 90
Mean −0.007458
Std Dev 0.8907
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

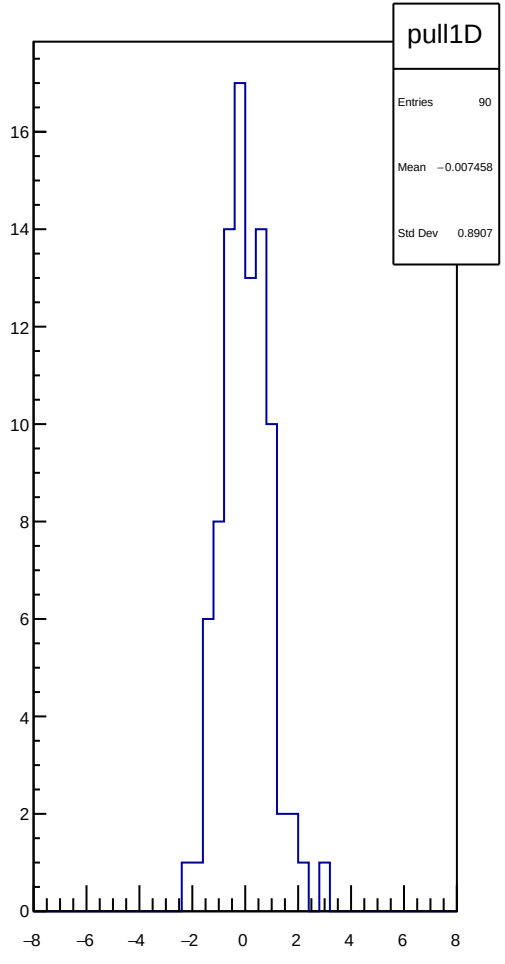

asym_sam_37_dd_reg_correction_rms vs run
χ² / ndf 1.521e+04 / 89
p0 479.8 ± 0.361
650
600
550
500
450
400

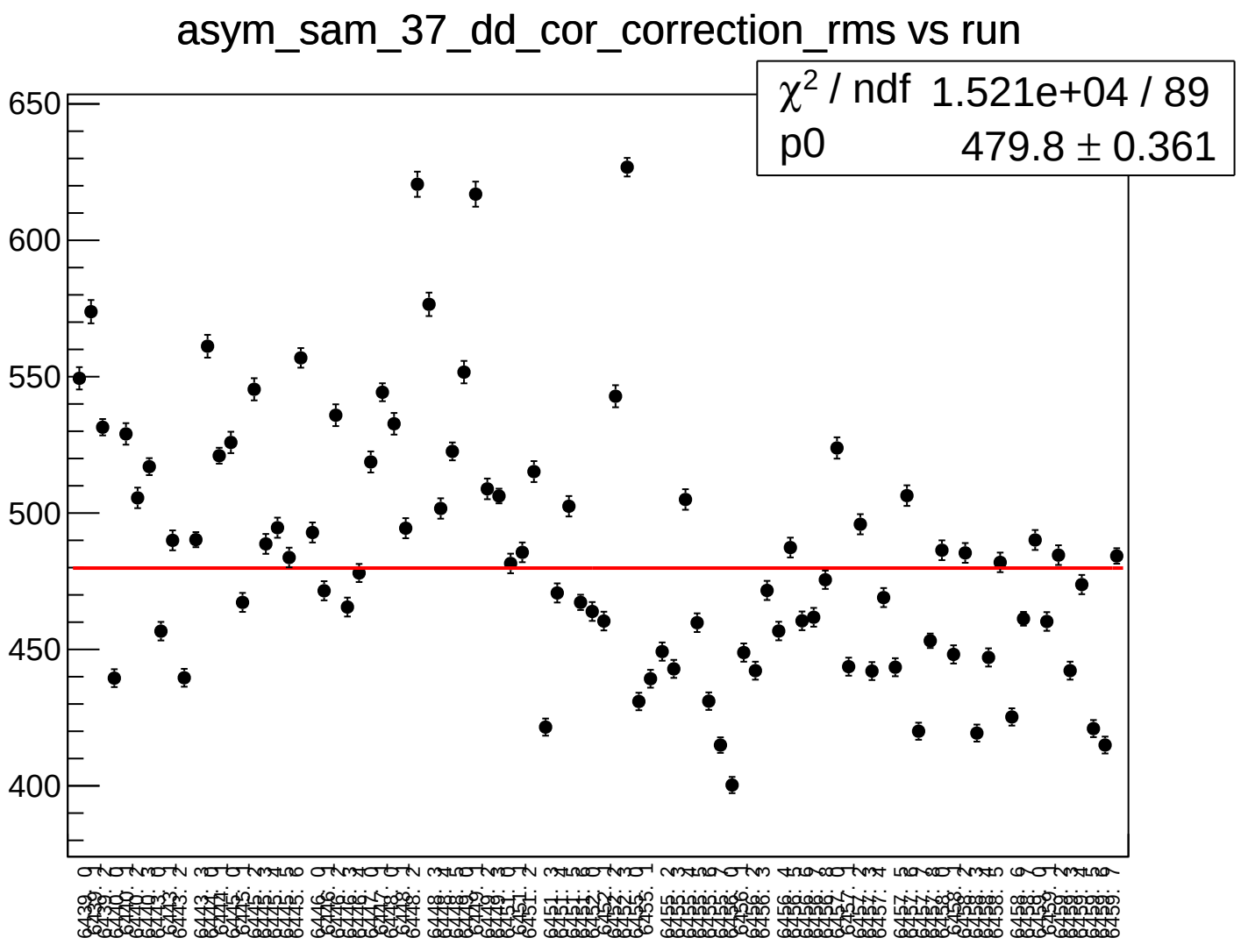

cor_asym_sam_37_dd_mean vs run
χ² / ndf 99.96 / 89
p0 48.18 ± 57.2
pull
Entries 90
Mean −178.2
Std Dev 0

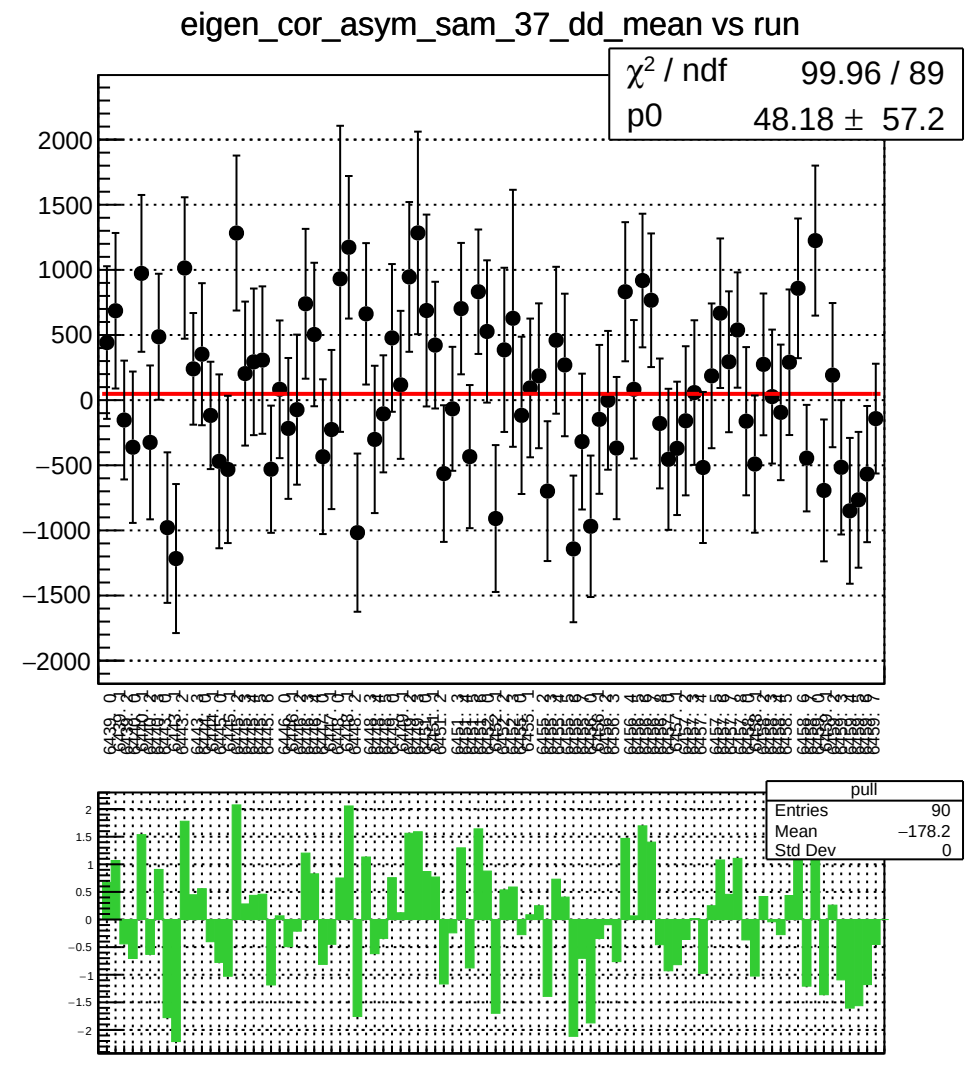

pull1D
Entries 90
Mean 0.01649
Std Dev 1.054

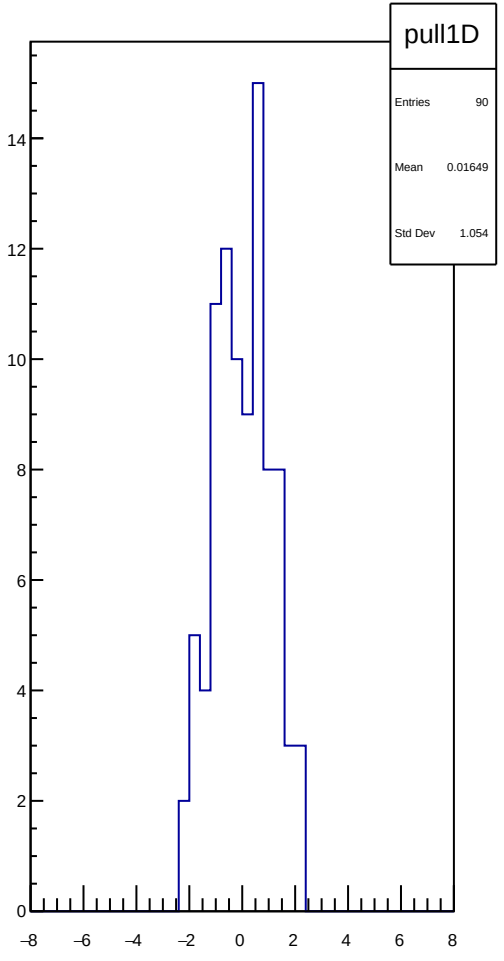

cor_asym_sam_37_dd_rms vs run
χ² / ndf 3.272e+04 / 89
p0 53.49 ± 0.04045
120
100
80
60
40

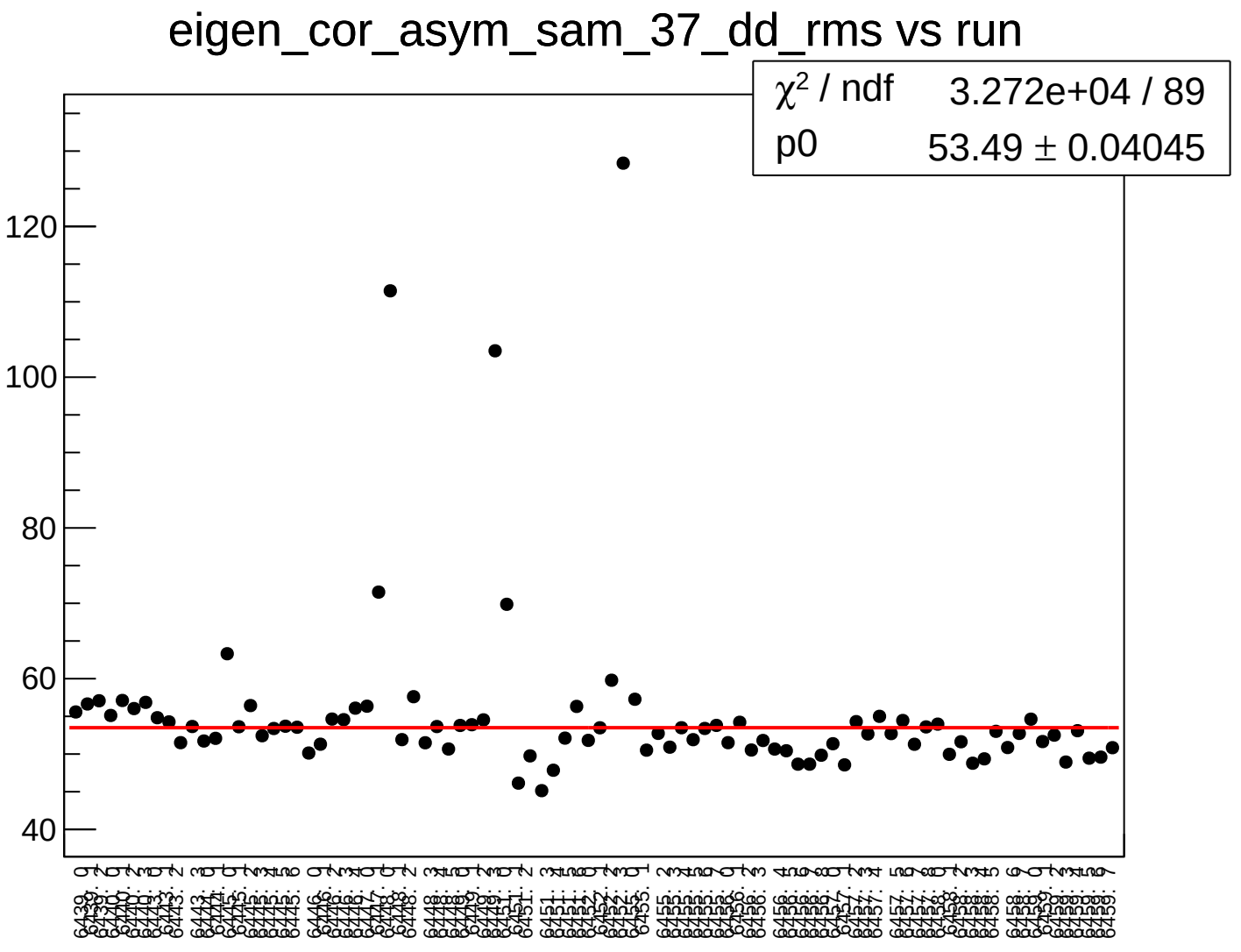

asym_sam_37_dd_cor_correction_mean vs run
χ² / ndf 71.4 / 89
p0 −1366 ± 510.5
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 90
Mean −329.4
Std Dev 0
3
2
1
0
−1
−2

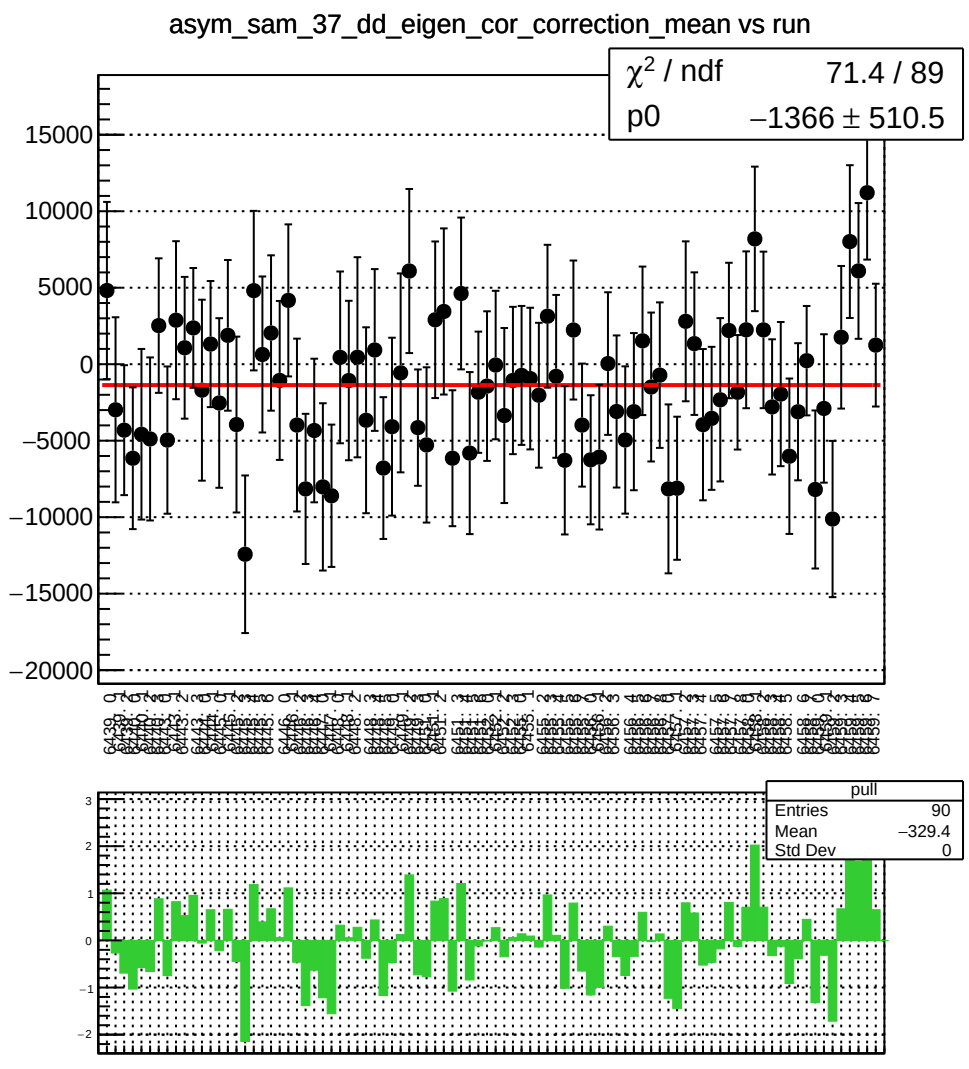

pull1D
Entries 90
Mean −0.007458
Std Dev 0.8907
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

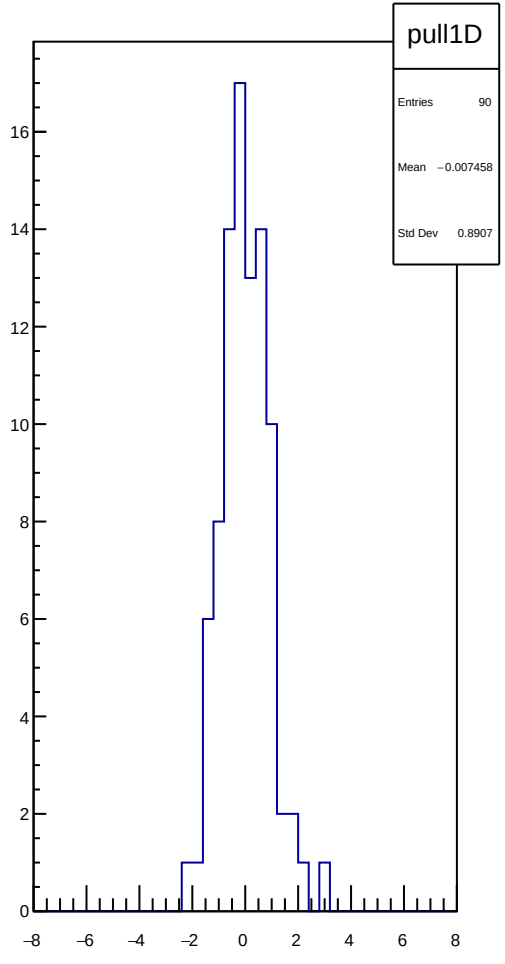

asym_sam_37_dd_cor_correction_rms vs run
χ² / ndf 1.521e+04 / 89
p0 479.8 ± 0.361
650
600
550
500
450
400

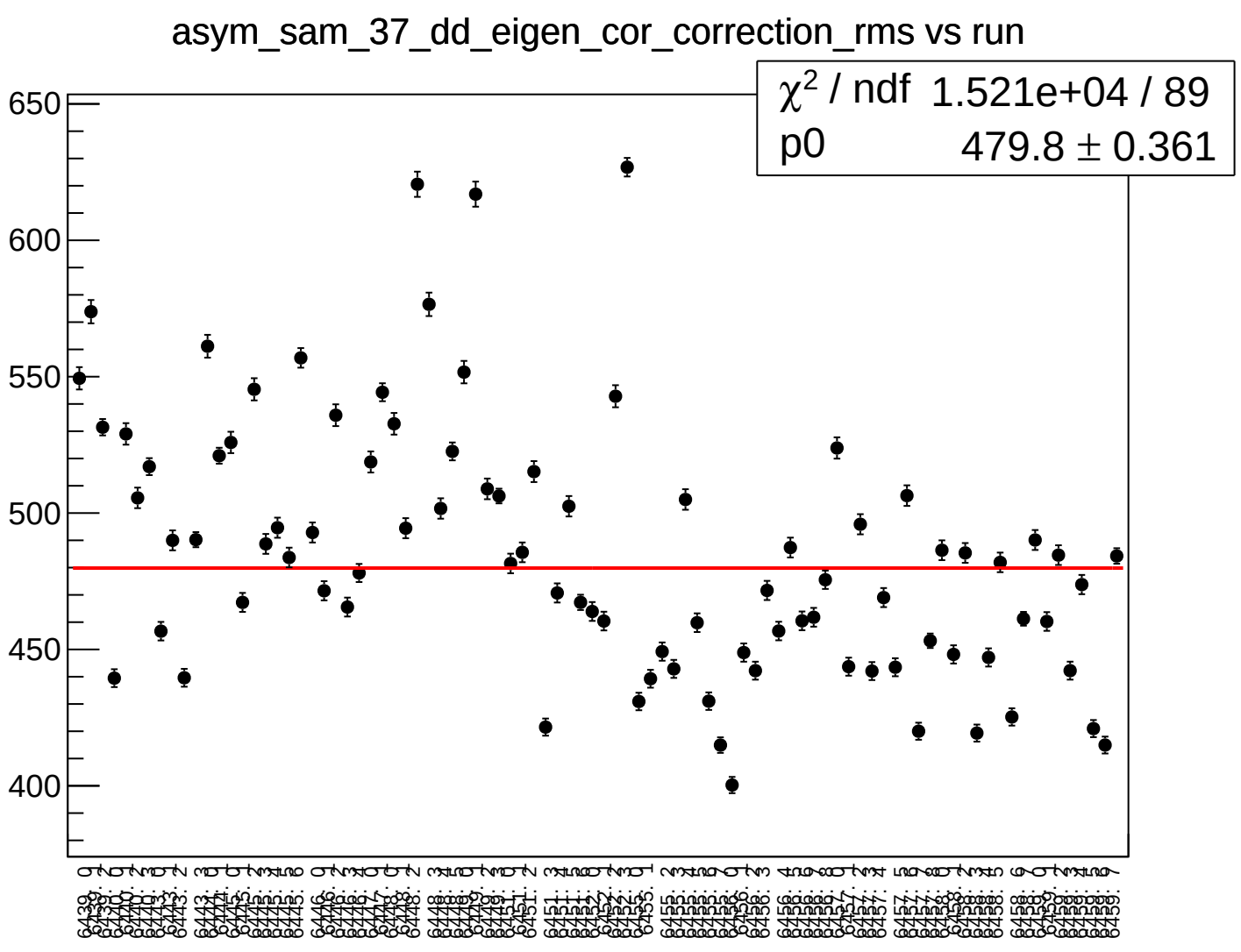

eigen_cor_asym_sam_37_dd_mean vs run
χ² / ndf 99.96 / 89
p0 48.18 ± 57.2
pull
Entries 90
Mean −178.2
Std Dev 0

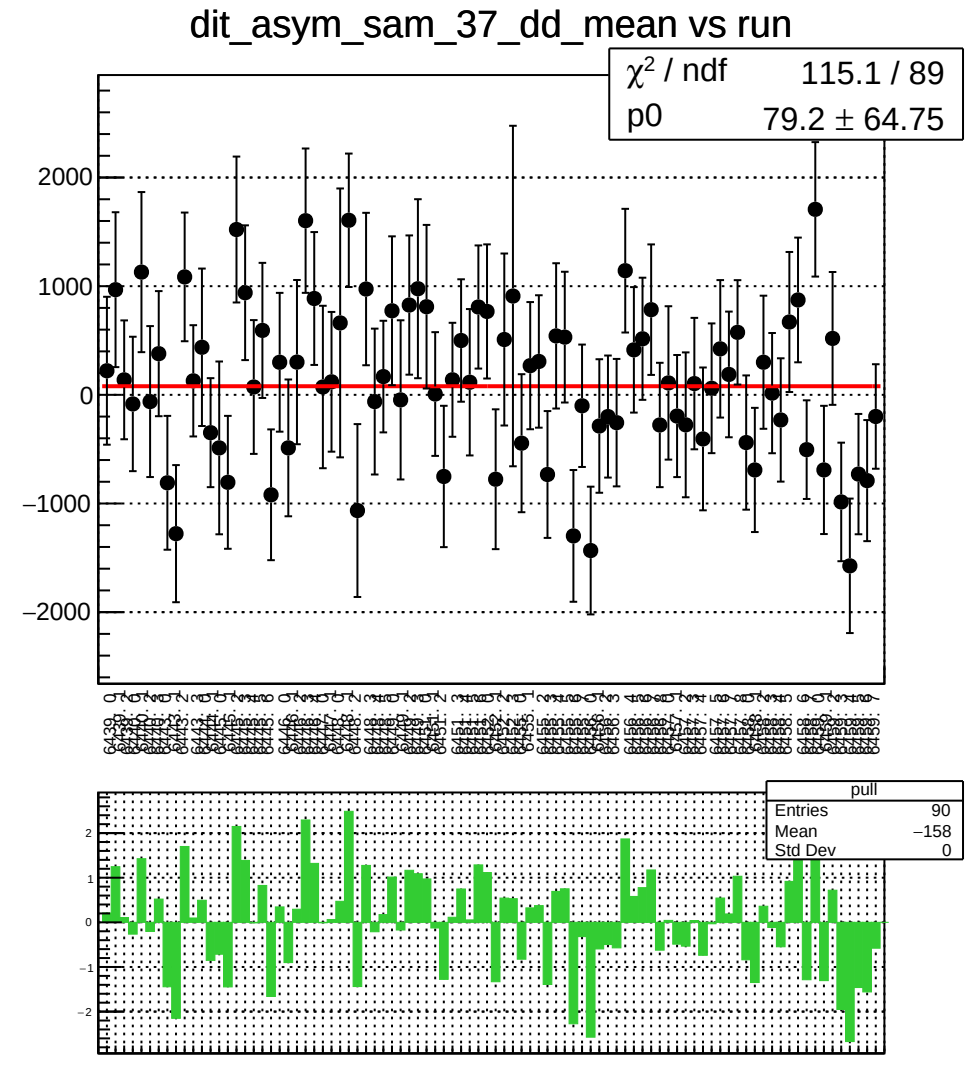

pull1D
Entries 90
Mean 0.01649
Std Dev 1.054

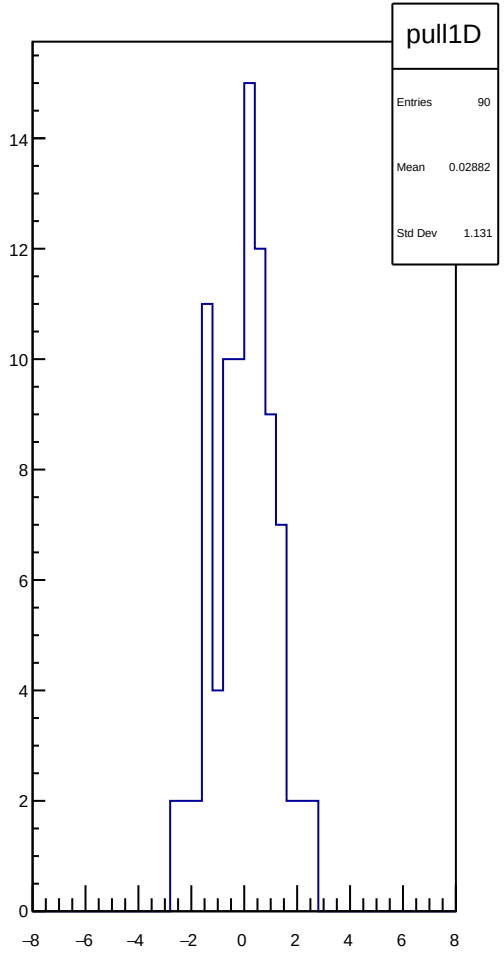

eigen_cor_asym_sam_37_dd_rms vs run
χ² / ndf 3.272e+04 / 89
p0 53.49 ± 0.04045
120
100
80
60
40

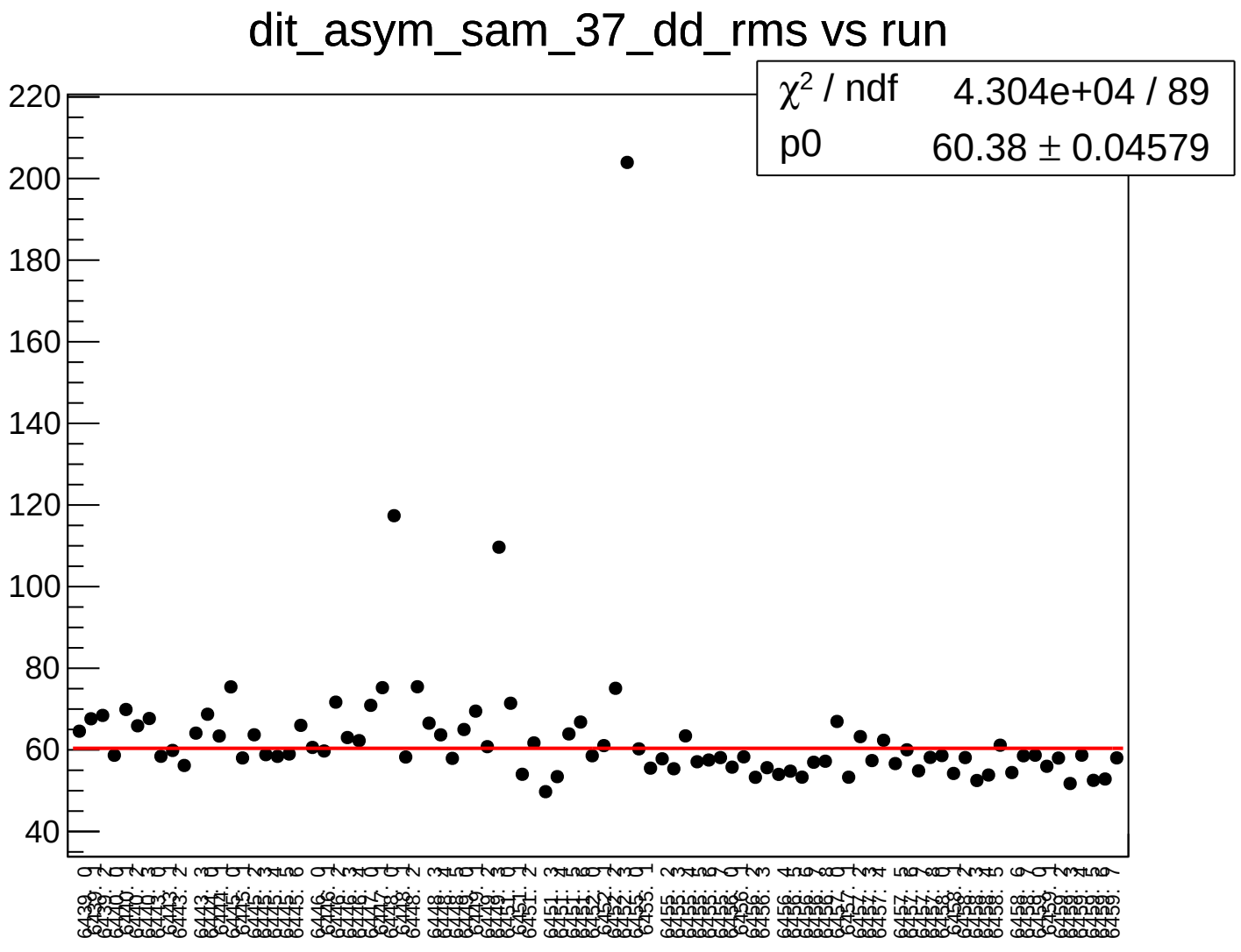

asym_sam_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 71.4 / 89
p0 −1366 ± 510.5
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 90
Mean −329.4
Std Dev 0
3
2
1
0
−1
−2

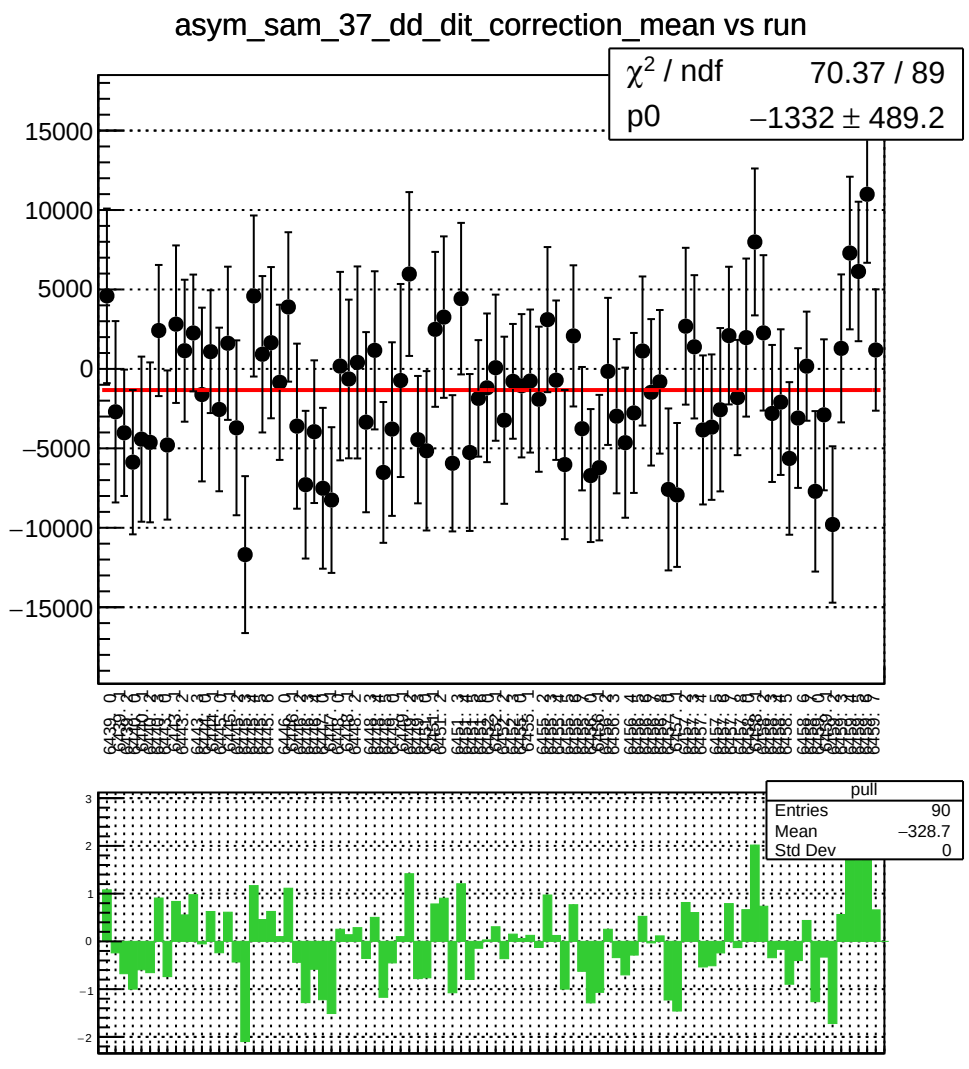

pull1D
Entries 90
Mean −0.007458
Std Dev 0.8907
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

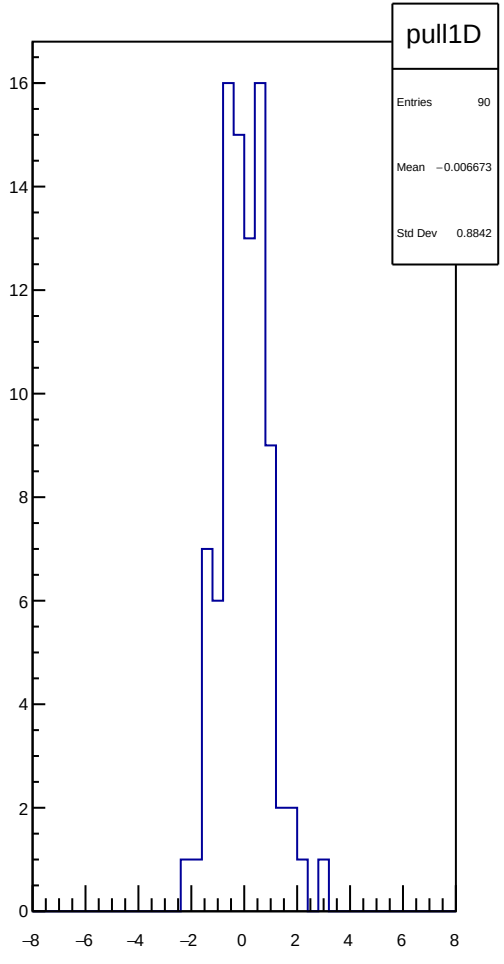

asym_sam_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.521e+04 / 89
p0 479.8 ± 0.361
650
600
550
500
450
400

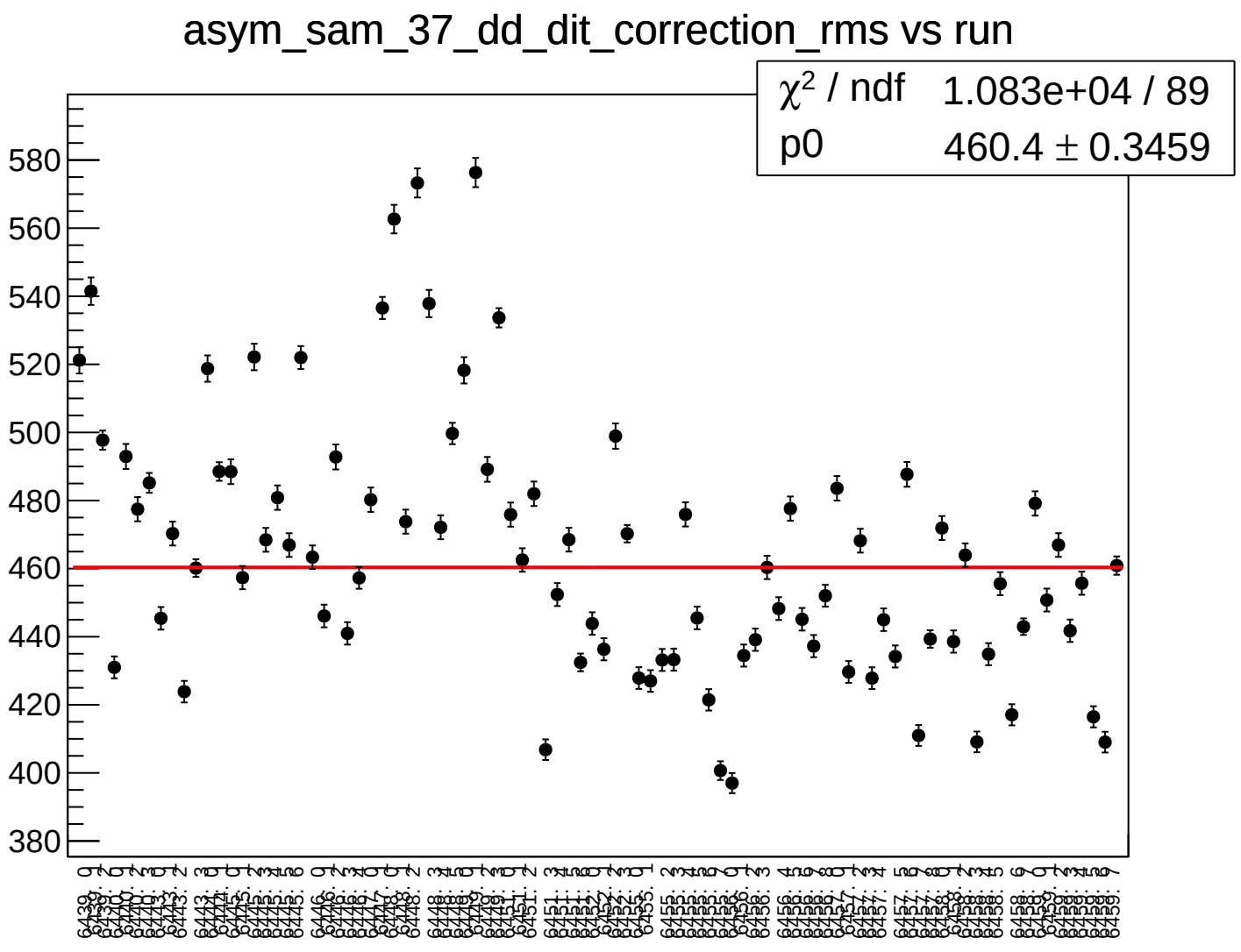

dit_asym_sam_37_dd_mean vs run
χ² / ndf 115.1 / 89
p0 79.2 ± 64.75
2000
1000
0
−1000
−2000
pull
Entries 90
Mean −158
Std Dev 0
2
1
0
−1
−2

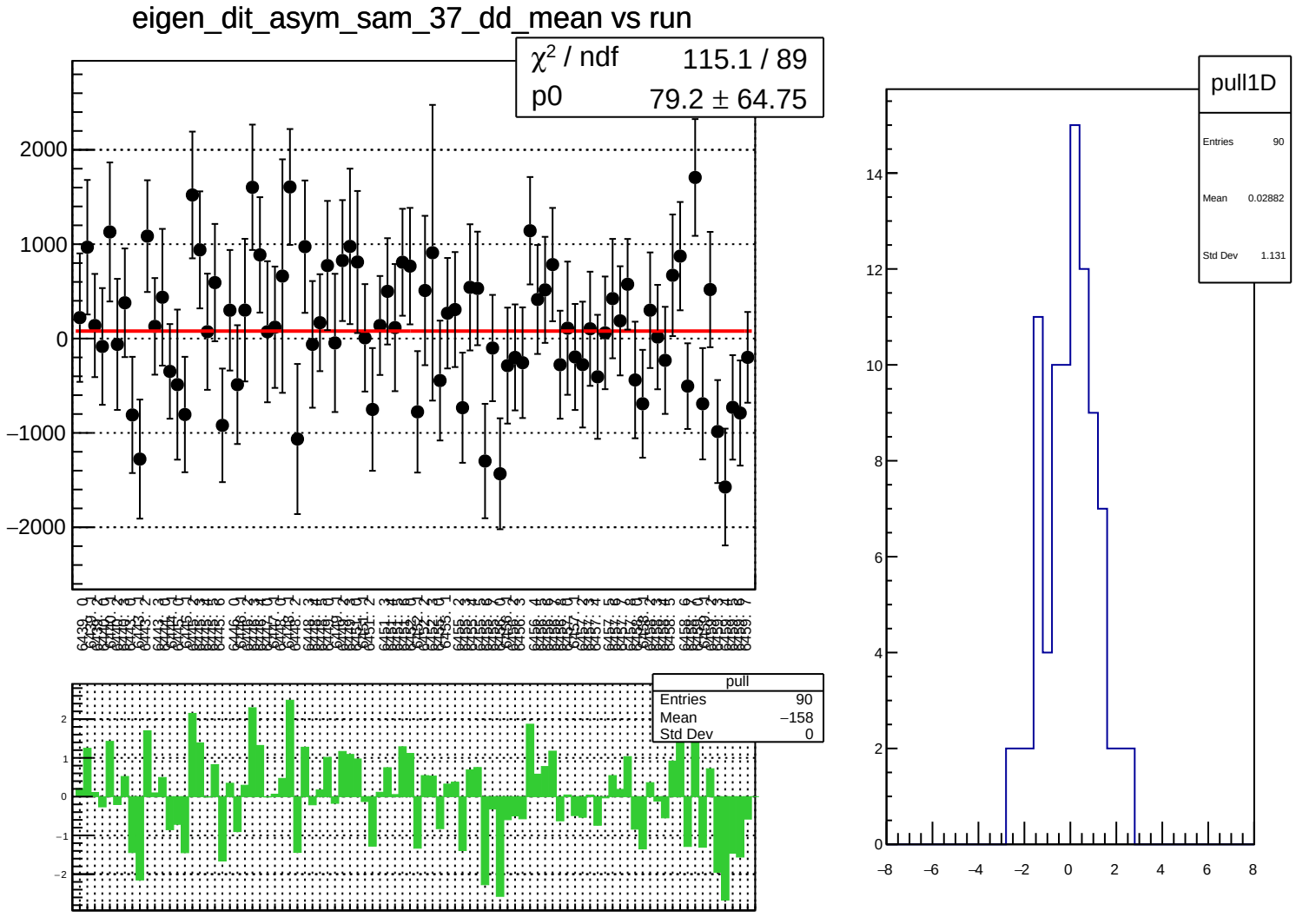

pull1D
Entries 90
Mean 0.02882
Std Dev 1.131
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

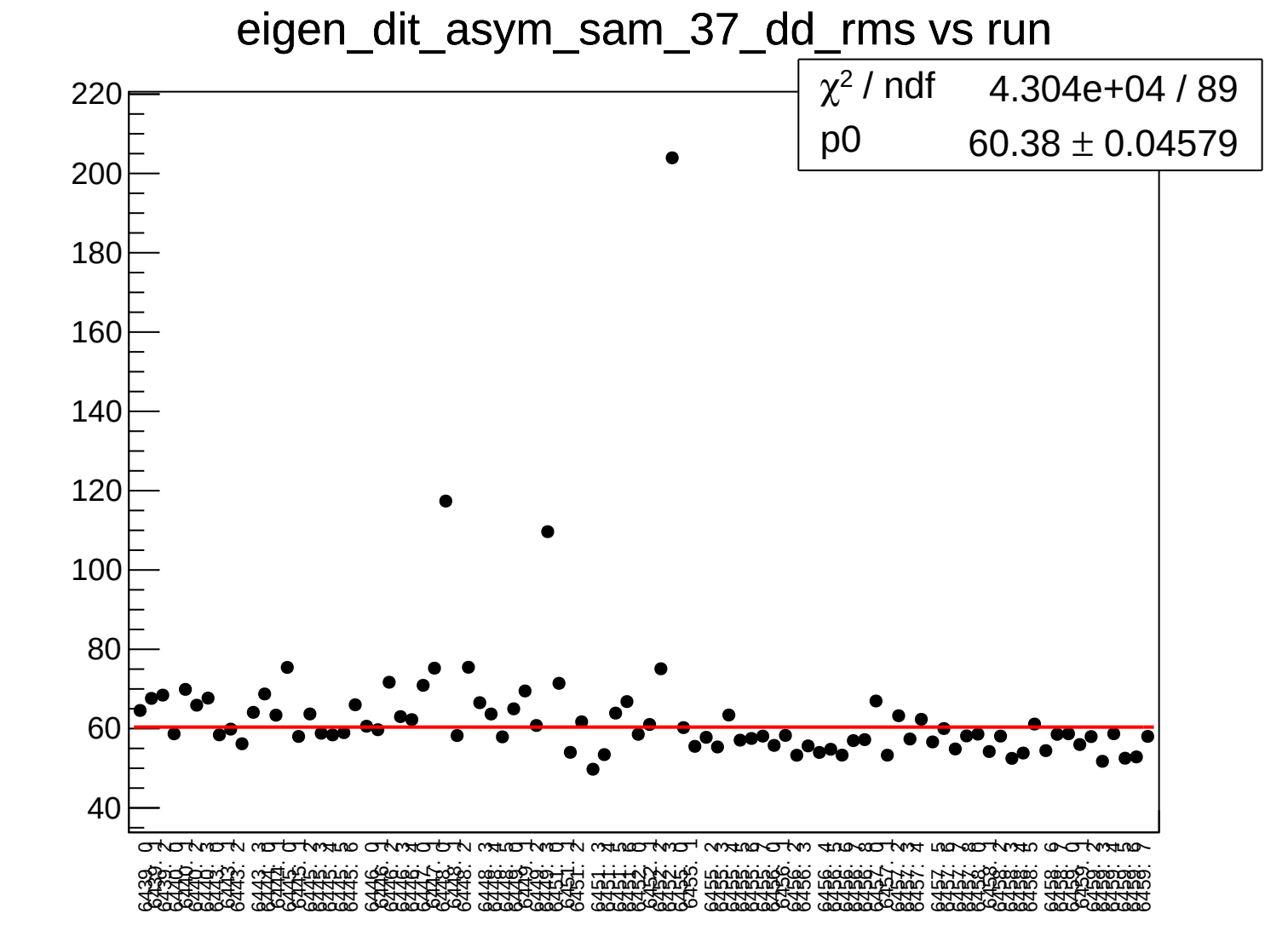

dit_asym_sam_37_dd_rms vs run
χ² / ndf 4.304e+04 / 89
p0 60.38 ± 0.04579
220
200
180
160
140
120
100
80
60
40

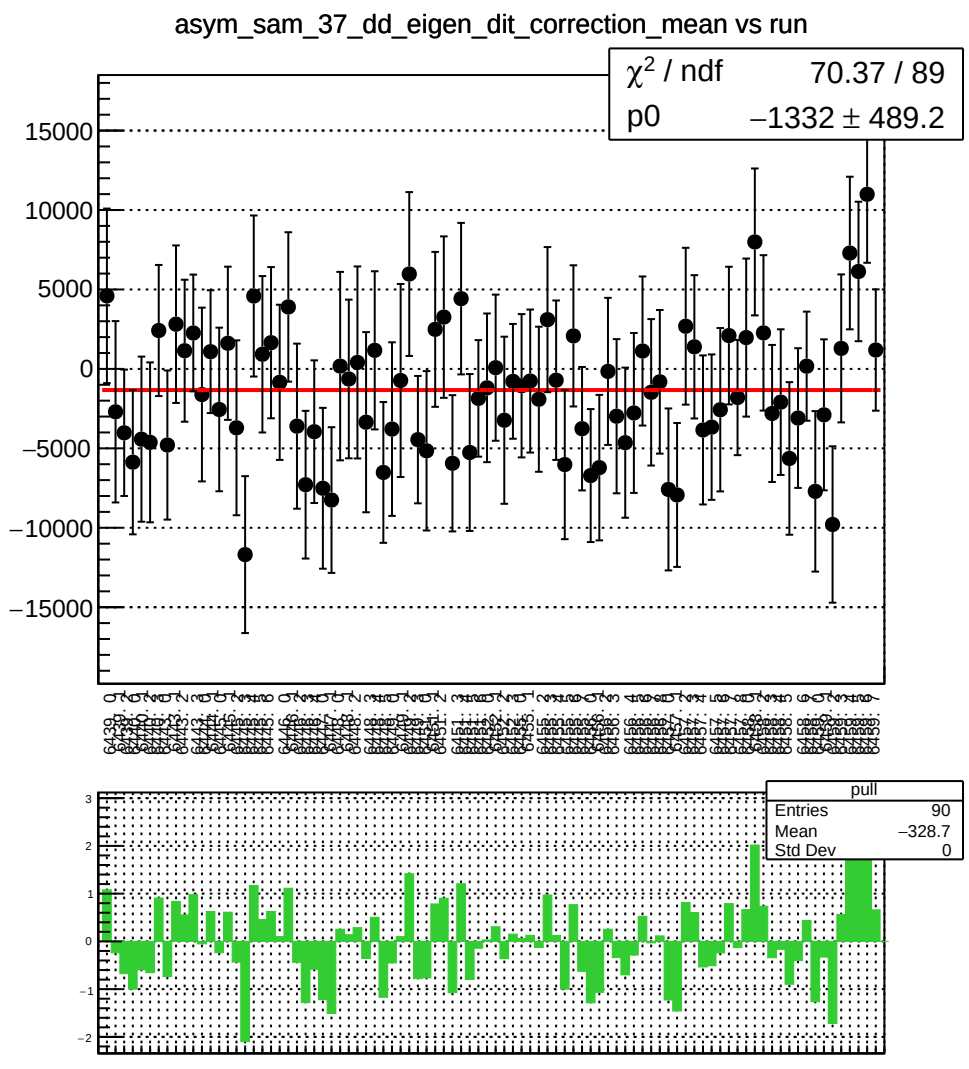

asym_sam_37_dd_dit_correction_mean vs run
χ² / ndf 70.37 / 89
p0 −1332 ± 489.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 90
Mean −328.7
Std Dev 0
3
2
1
0
−1
−2

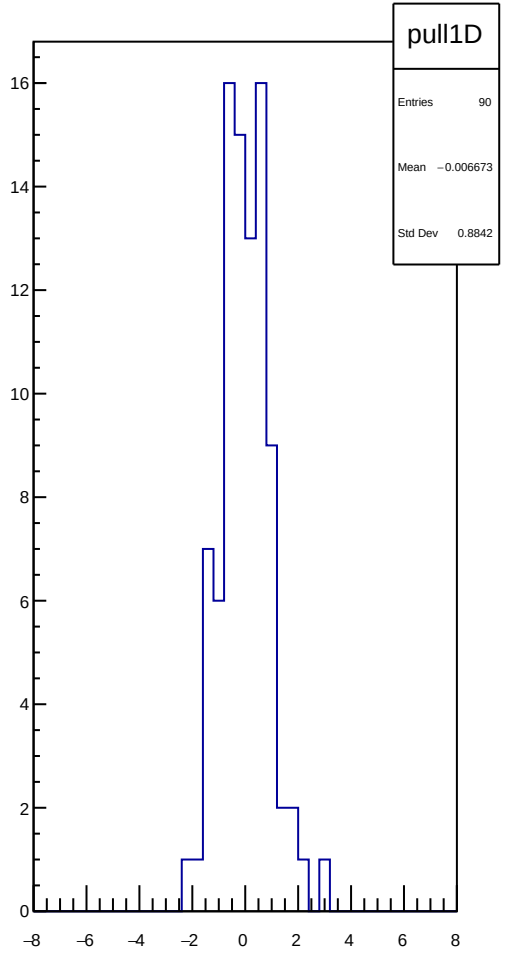

pull1D
Entries 90
Mean −0.006673
Std Dev 0.8842
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

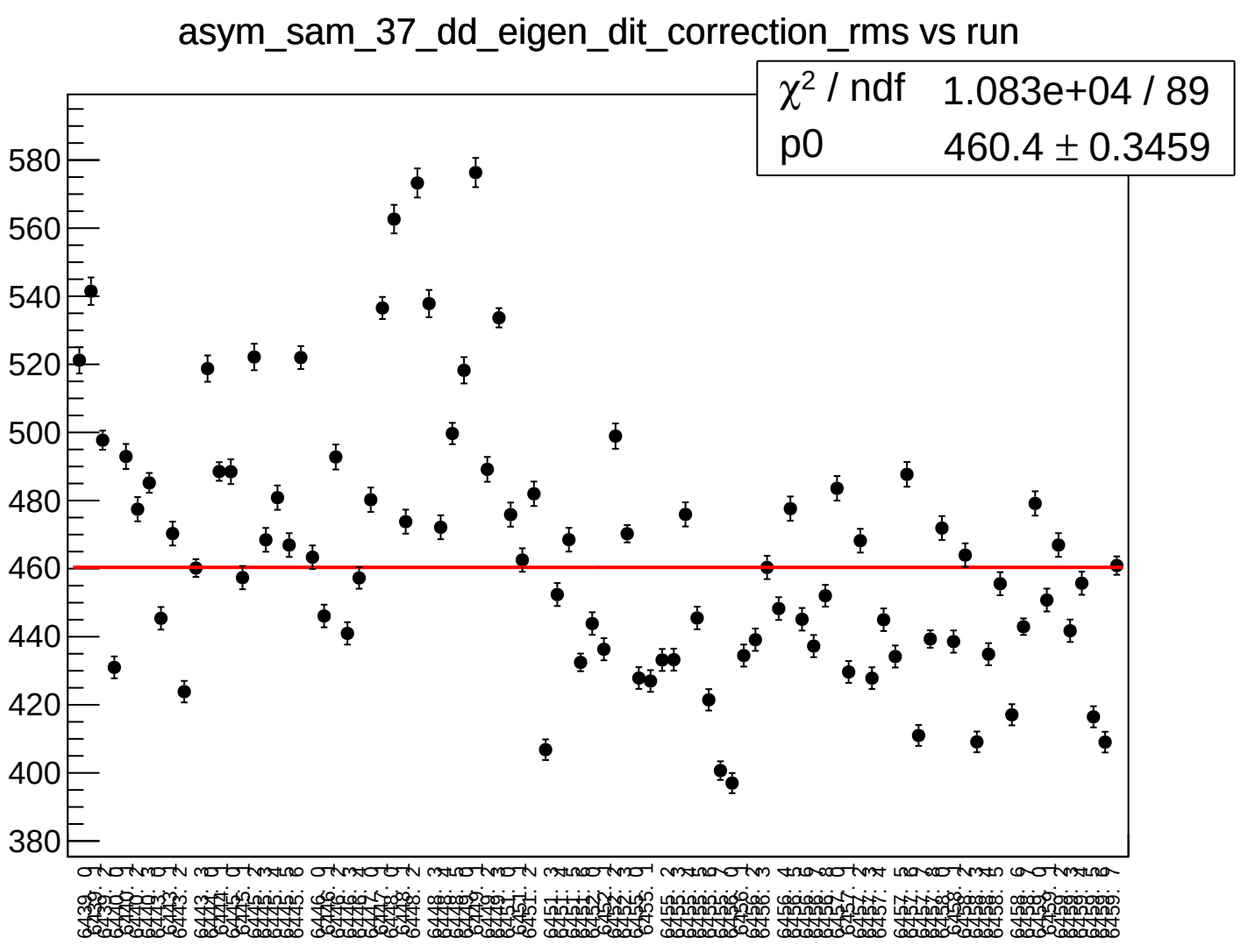

asym_sam_37_dd_dit_correction_rms vs run
χ² / ndf 1.083e+04 / 89
p0 460.4 ± 0.3459
580
560
540
520
500
480
460
440
420
400
380

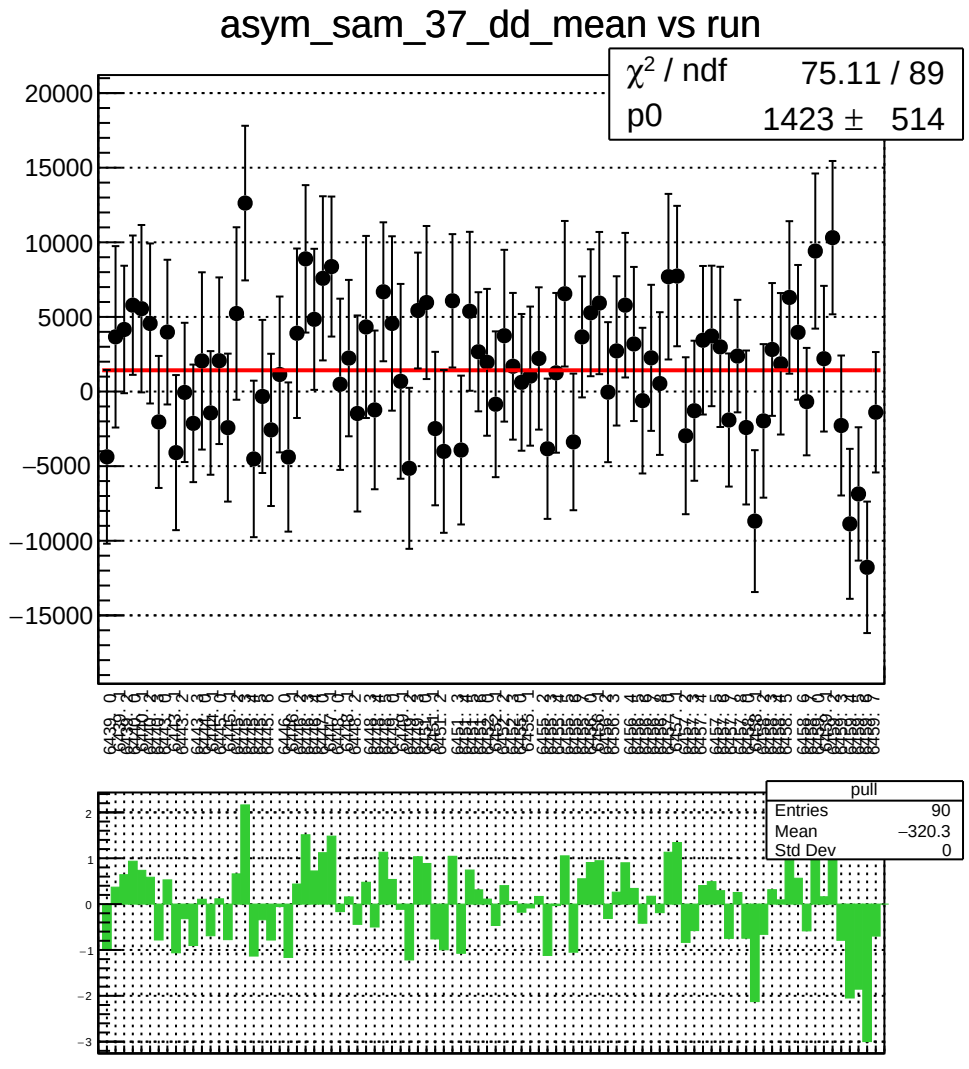

eigen_dit_asym_sam_37_dd_mean vs run
χ² / ndf 115.1 / 89
p0 79.2 ± 64.75
2000
1000
0
−1000
−2000
pull
Entries 90
Mean −158
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 90
Mean 0.02882
Std Dev 1.131
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

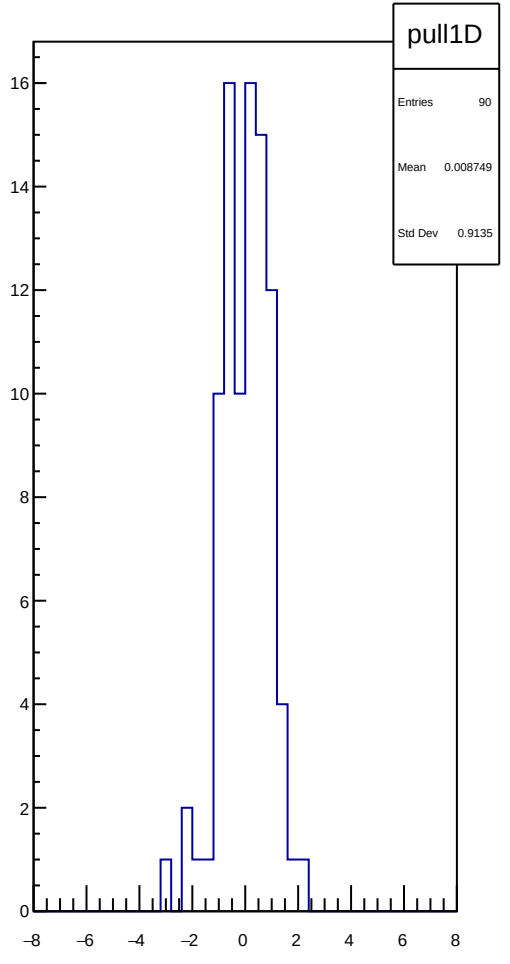

eigen_dit_asym_sam_37_dd_rms vs run
χ^2 / ndf 4.304e+04 / 89
p0 60.38 ± 0.04579
220
200
180
160
140
120
100
80
60
40

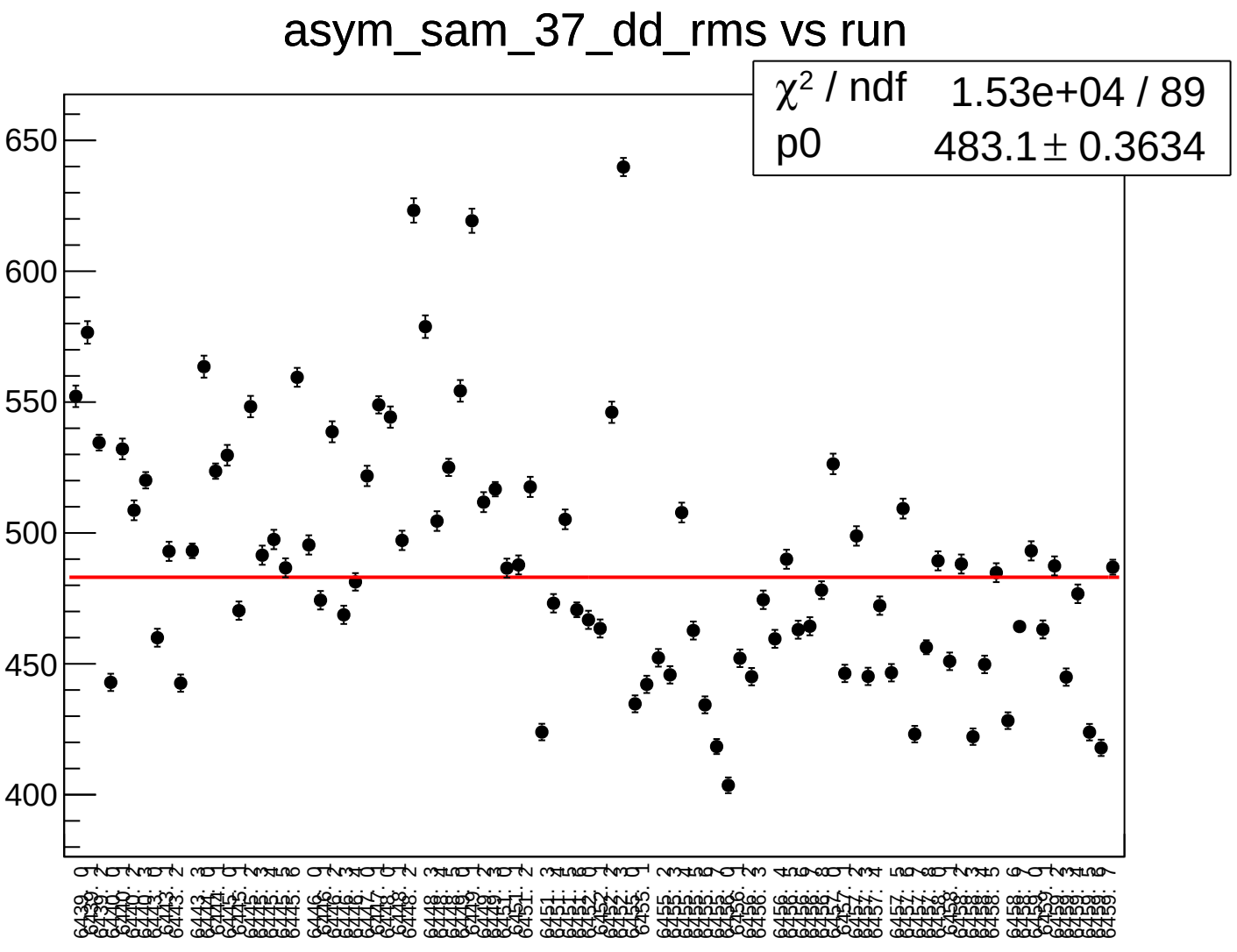

asym_sam_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 70.37 / 89
p0 −1332 ± 489.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 90
Mean −328.7
Std Dev 0
3
2
1
0
−1
−2

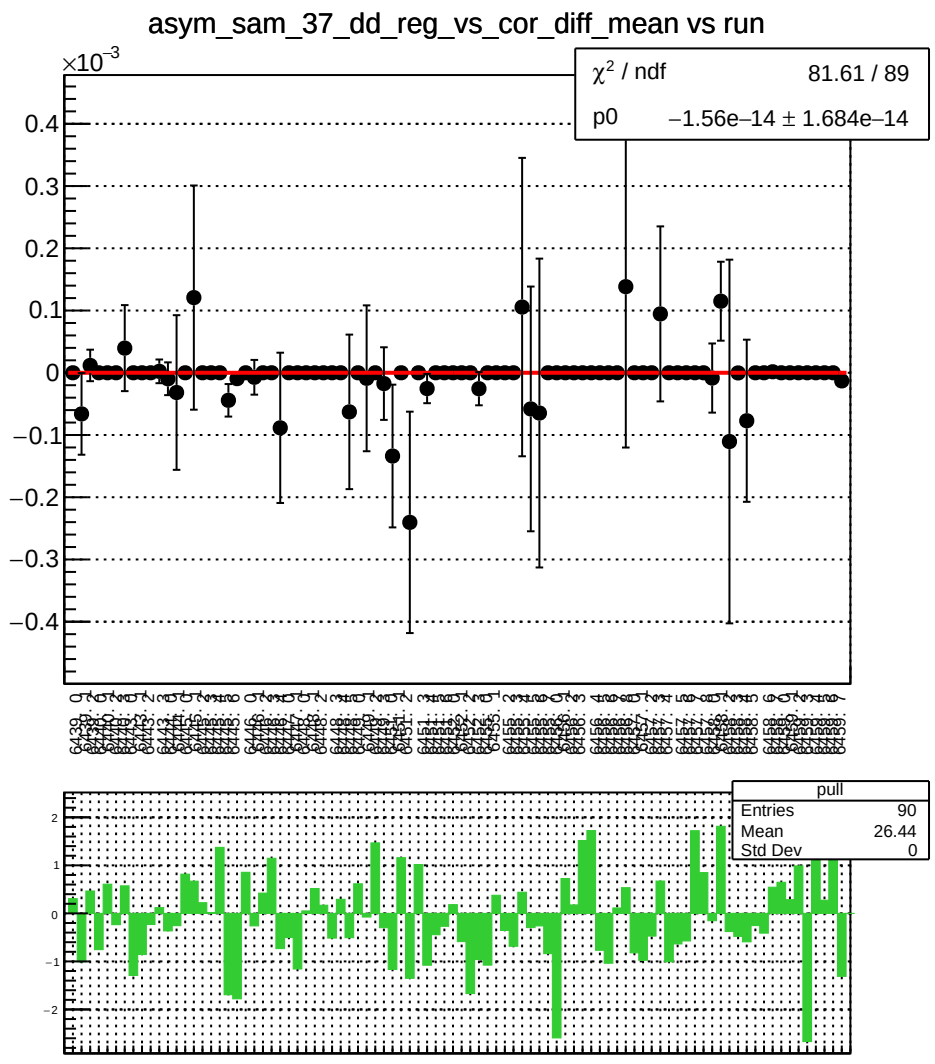

pull1D
Entries 90
Mean −0.006673
Std Dev 0.8842
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

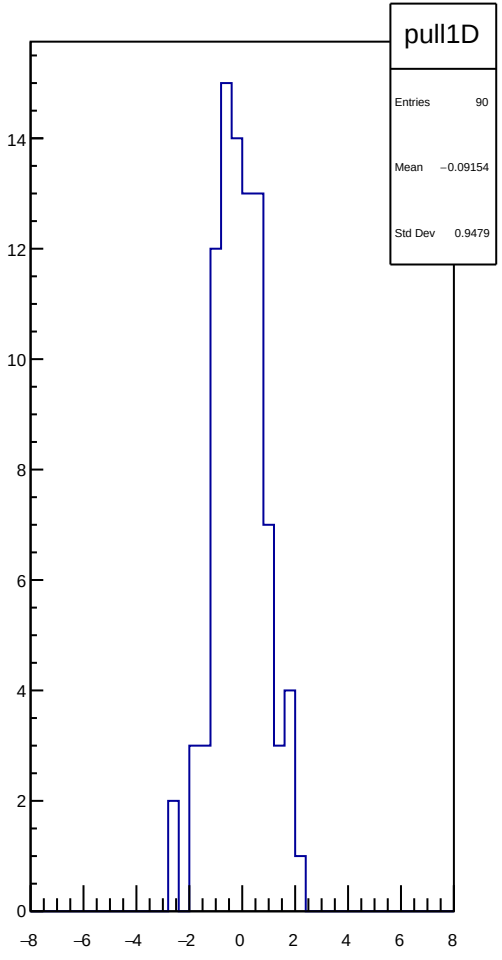

asym_sam_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.083e+04 / 89
p0 460.4 ± 0.3459
580
560
540
520
500
480
460
440
420
400
380

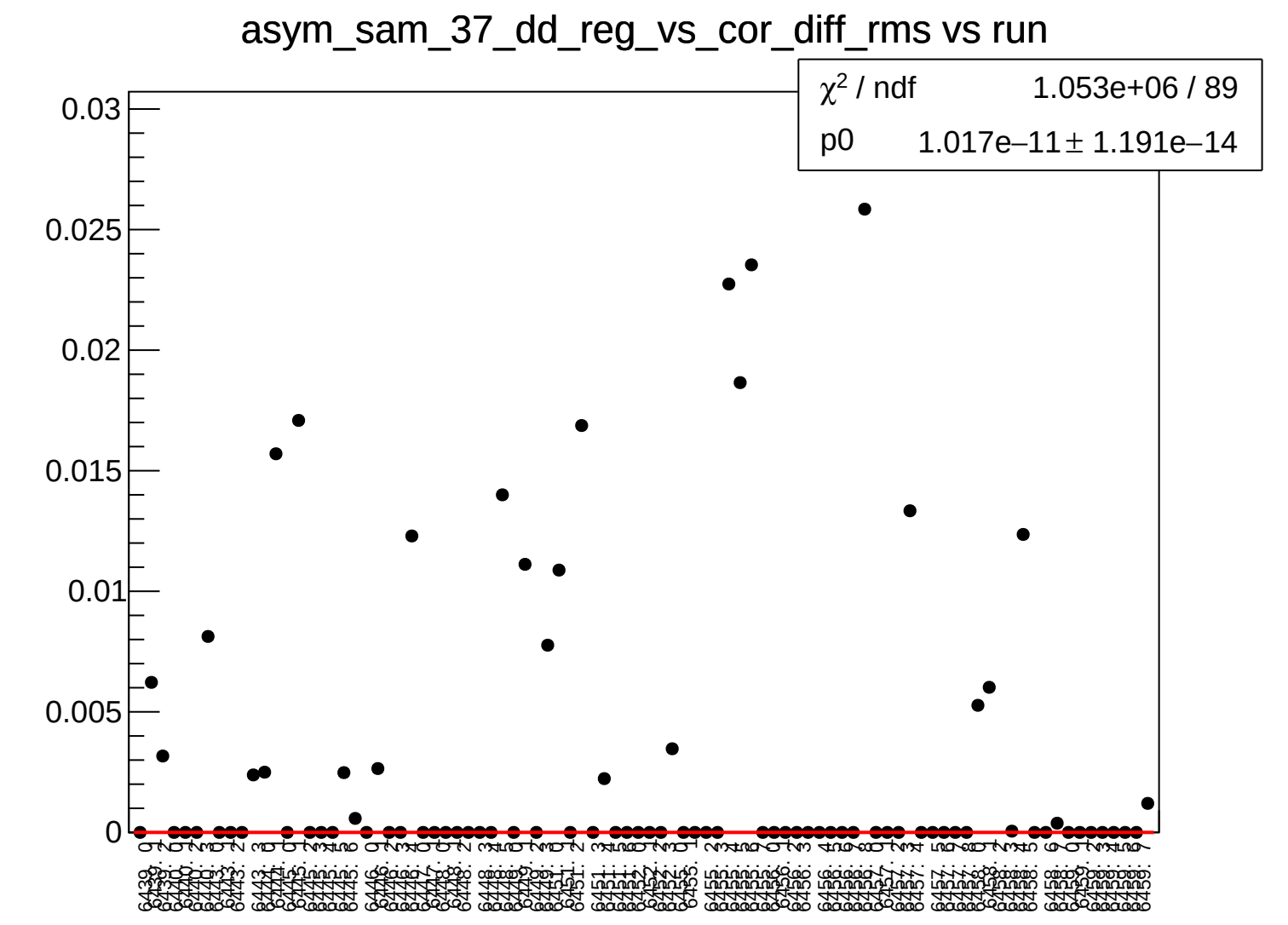

asym_sam_37_dd_mean vs run
χ² / ndf 75.11 / 89
p0 1423 ± 514
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 90
Mean −320.3
Std Dev 0
2
1
0
−1
−2
−3

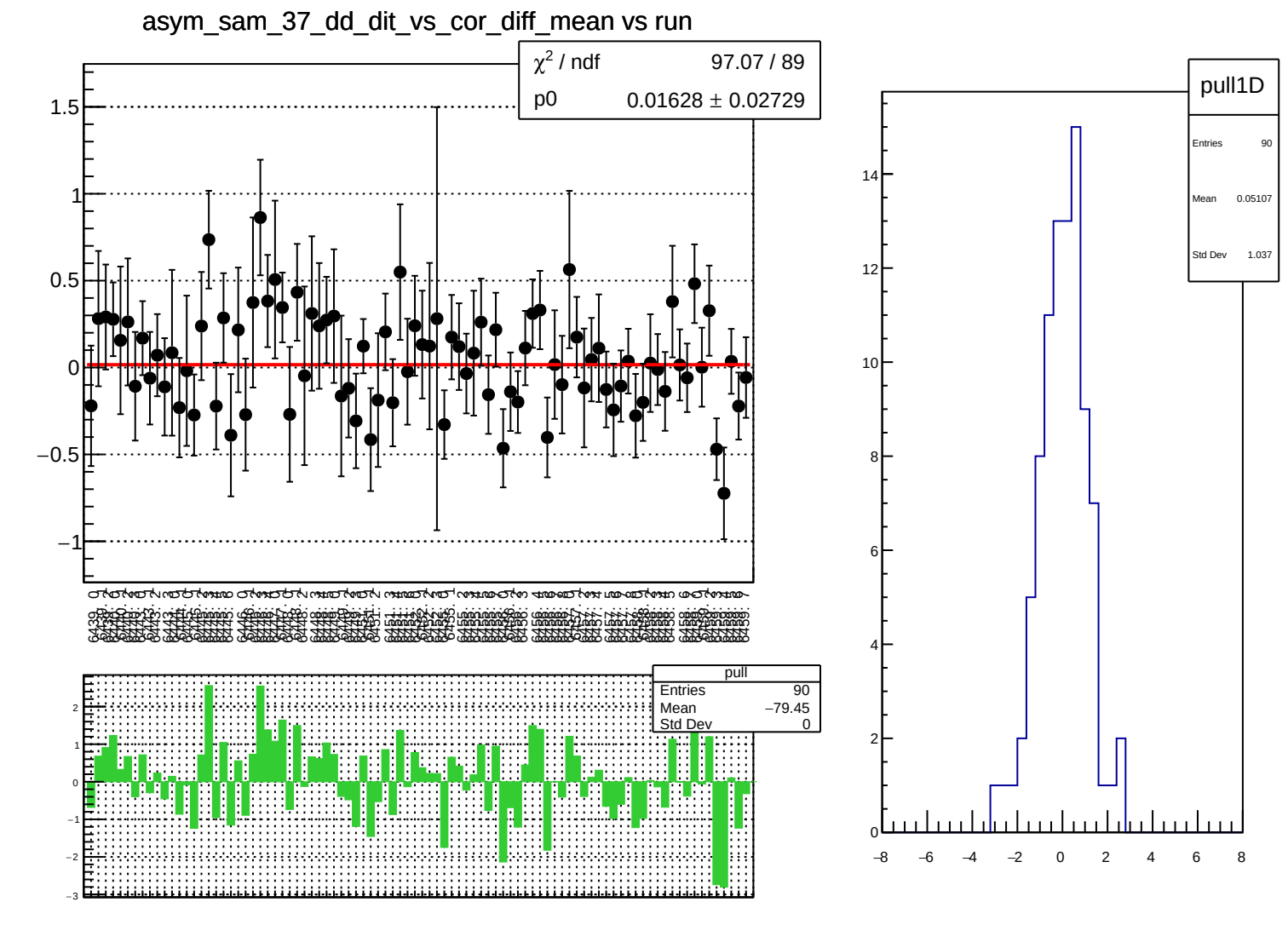

pull1D
Entries 90
Mean 0.008749
Std Dev 0.9135
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

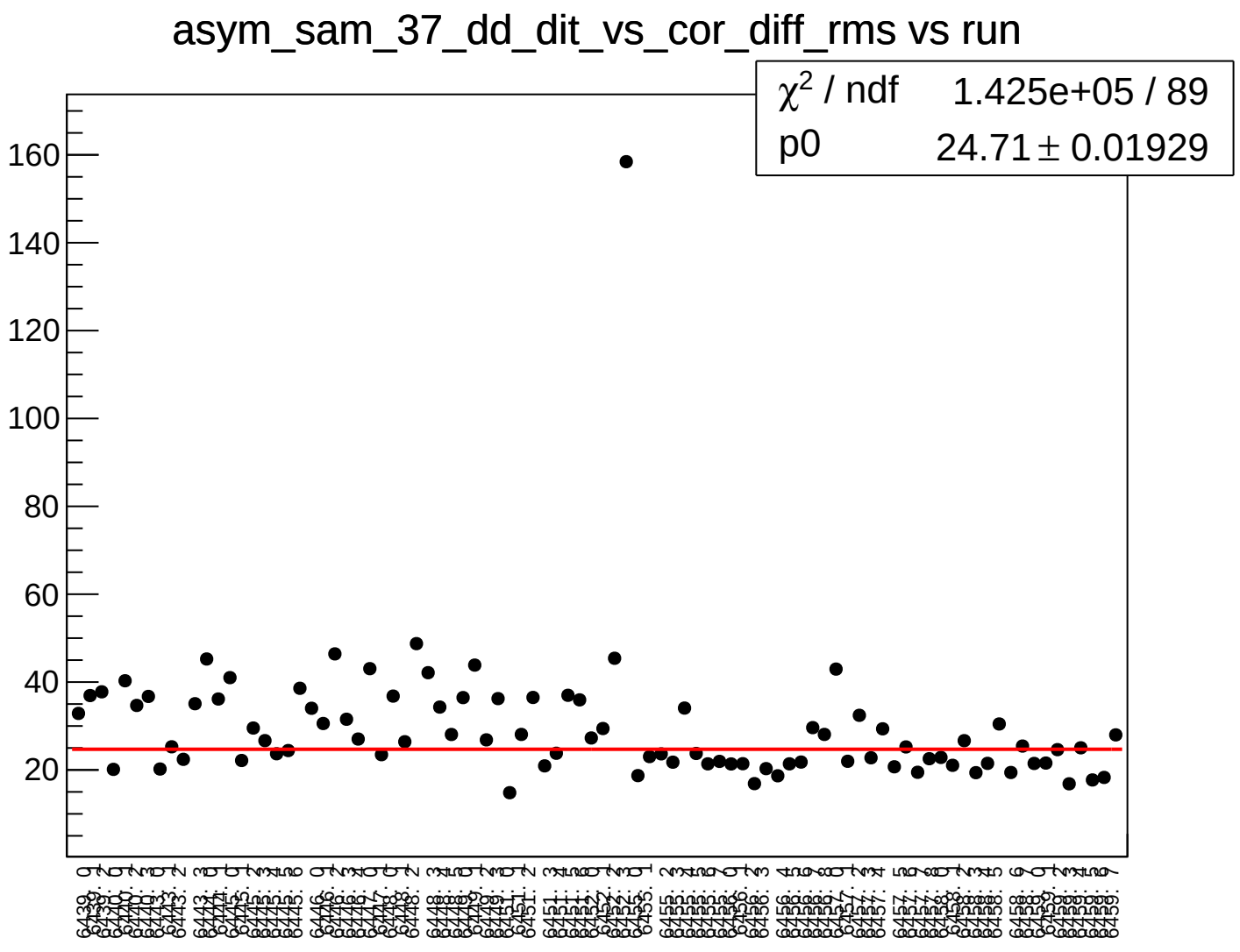

asym_sam_37_dd_rms vs run
χ² / ndf 1.53e+04 / 89
p0 483.1 ± 0.3634
650
600
550
500
450
400

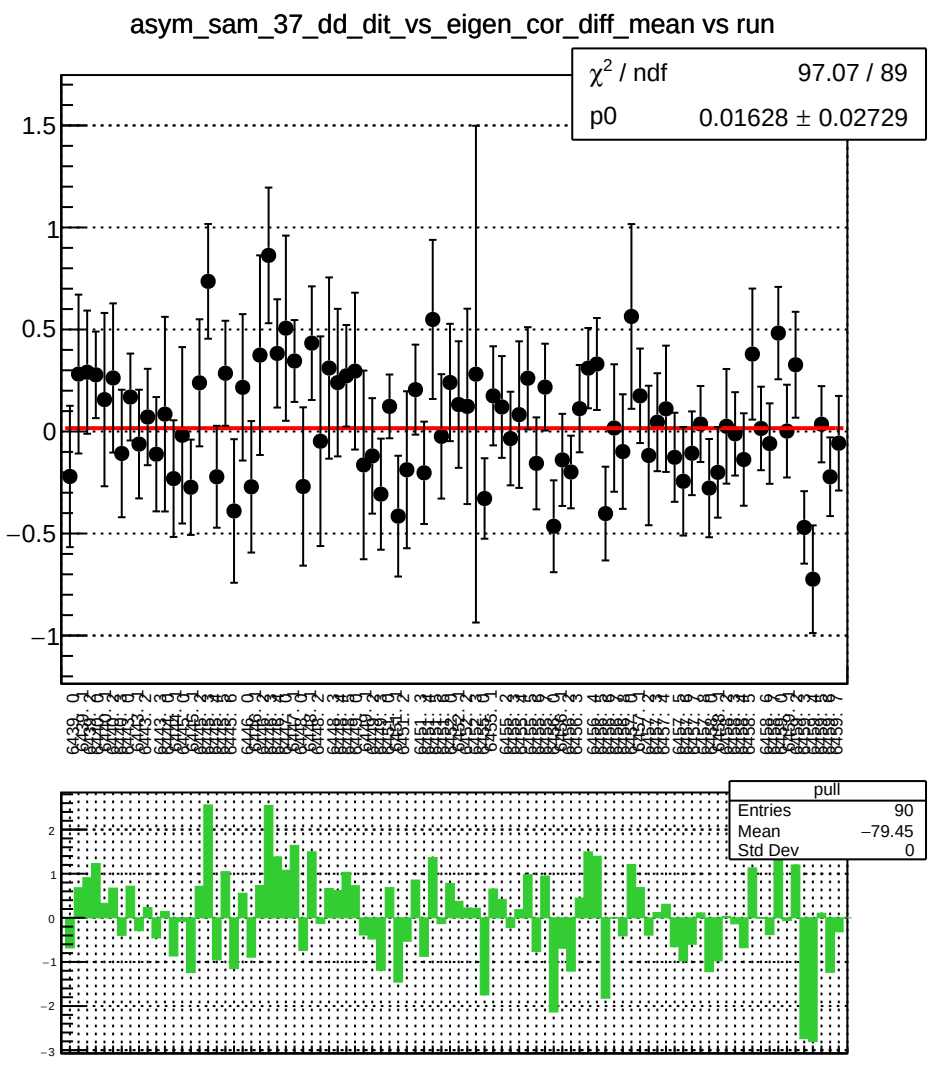

asym_sam_37_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 81.61 / 89
p0 −1.56e−14 ± 1.684e−14
pull
Entries 90
Mean 26.44
Std Dev 0

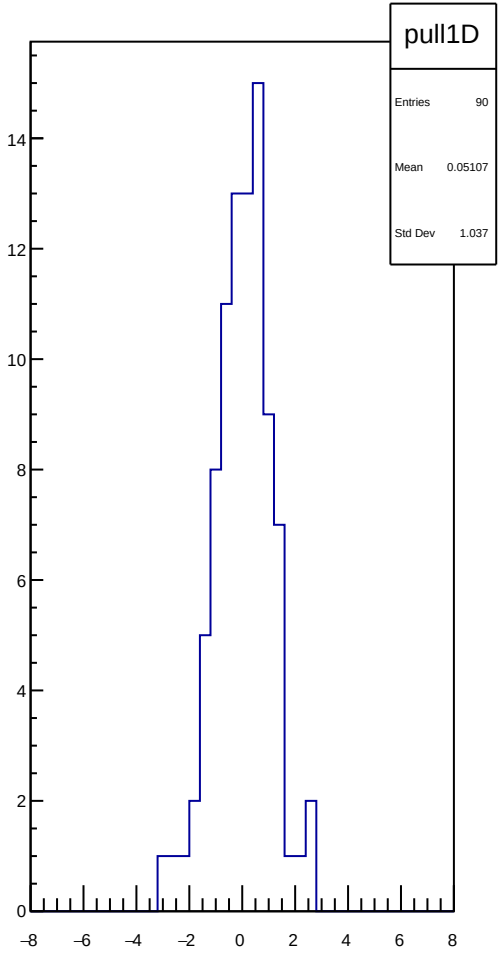

pull1D
Entries 90
Mean −0.09154
Std Dev 0.9479

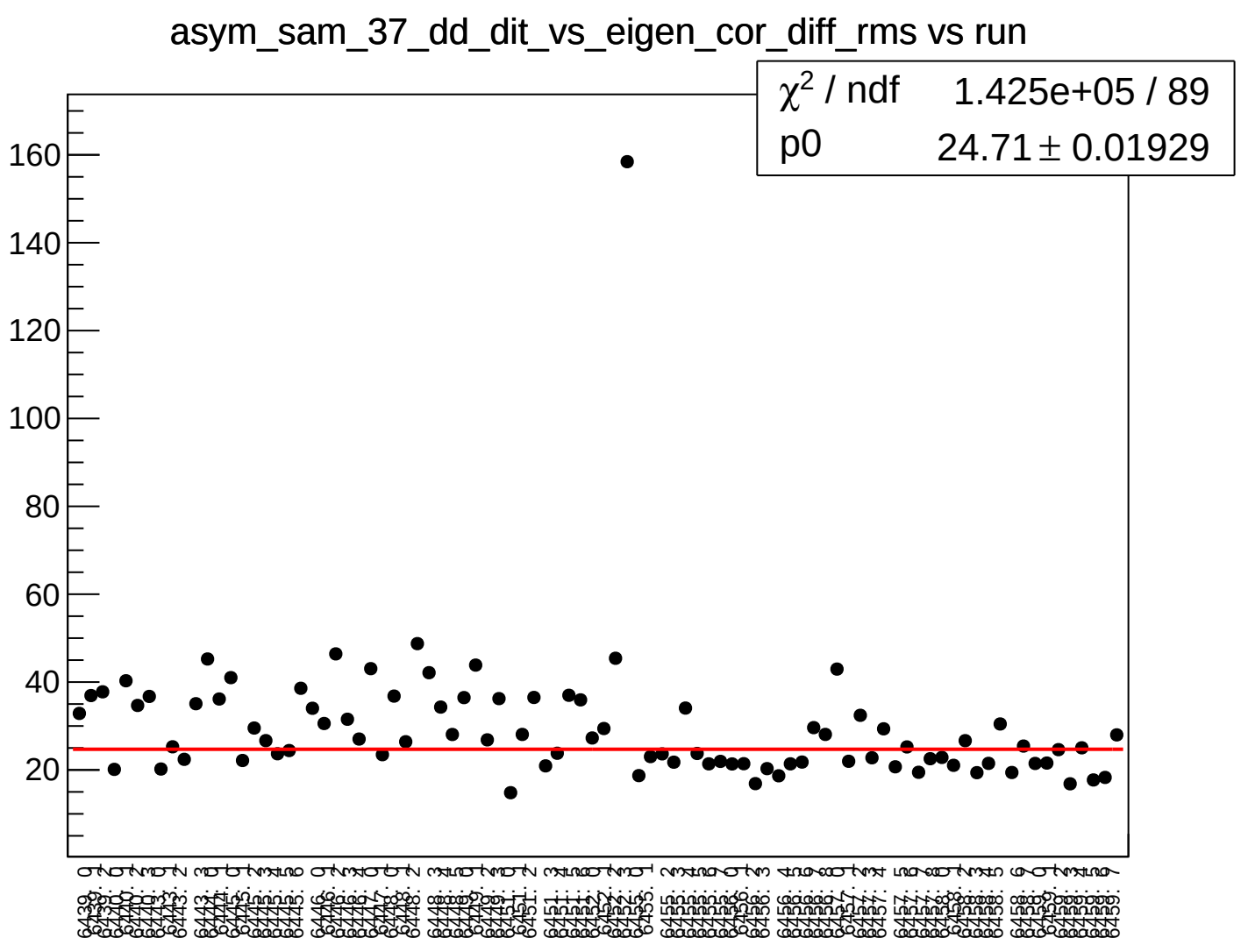

asym_sam_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.053e+06 / 89
p0 1.017e−11 ± 1.191e−14
0.03
0.025
0.02
0.015
0.01
0.005
0

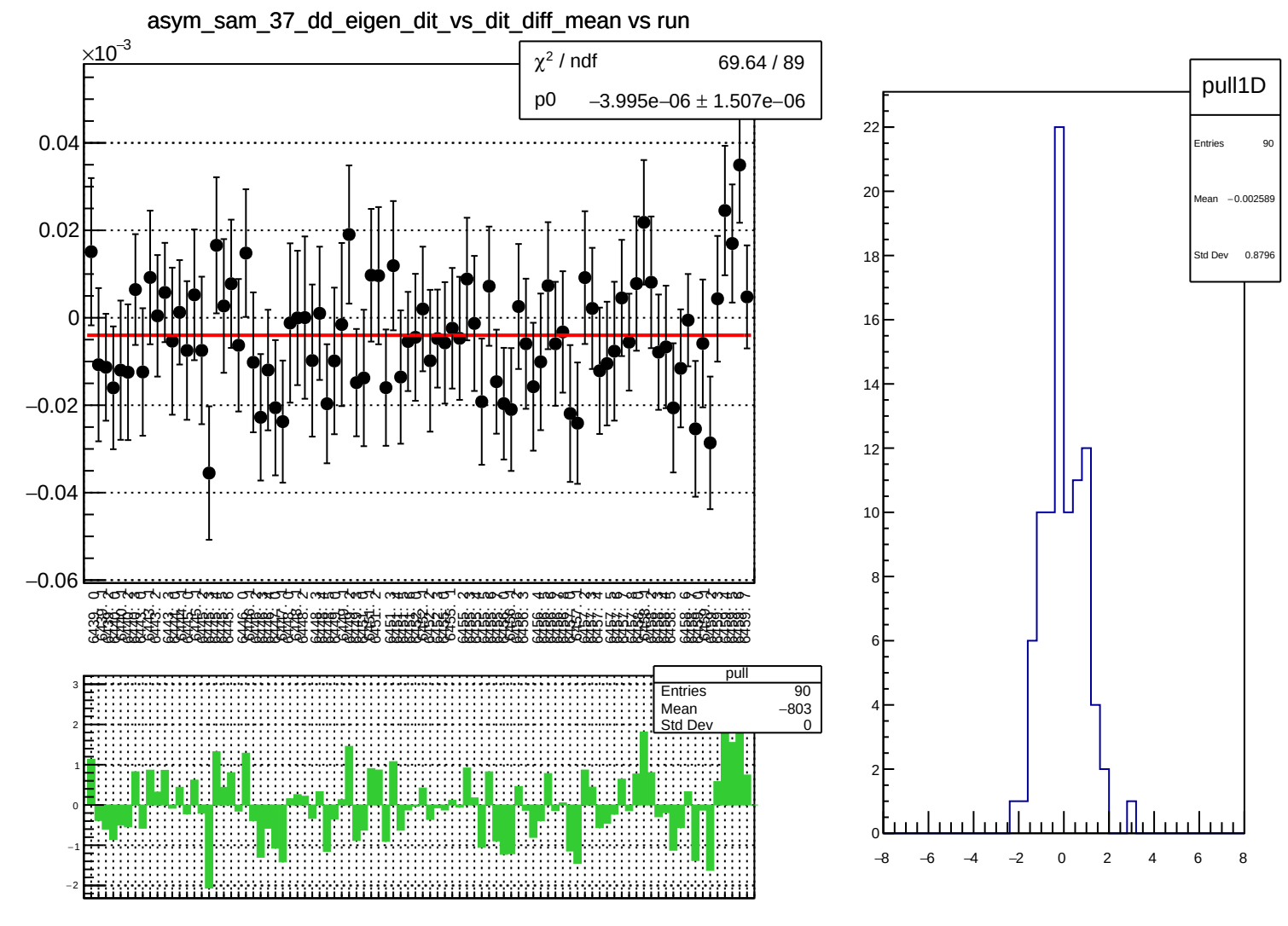

asym_sam_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 97.07 / 89
p0 0.01628 ± 0.02729
pull
Entries 90
Mean −79.45
Std Dev 0
pull1D
Entries 90
Mean 0.05107
Std Dev 1.037

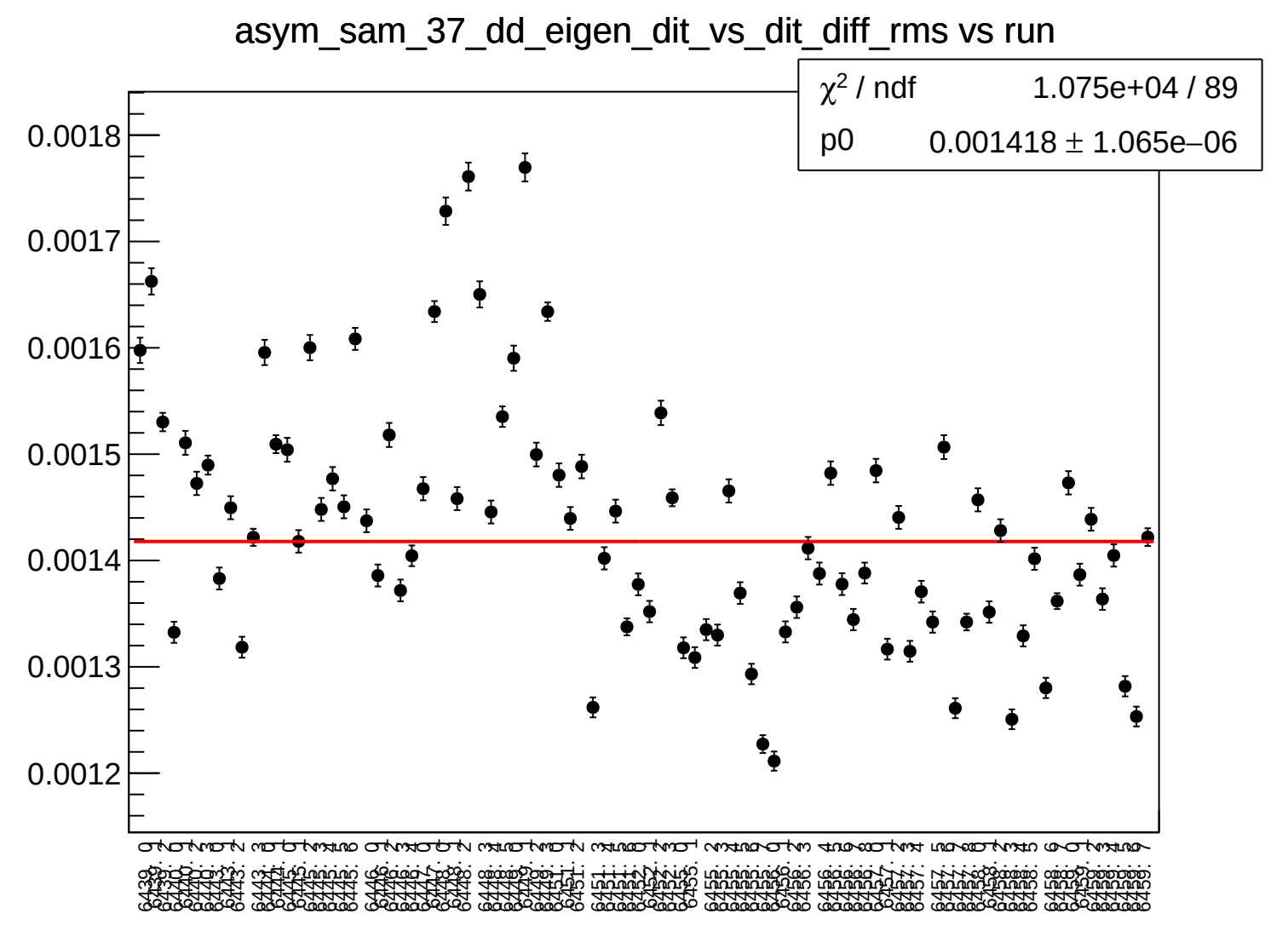

asym_sam_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.425e+05 / 89
p0 24.71 ± 0.01929
160
140
120
100
80
60
40
20

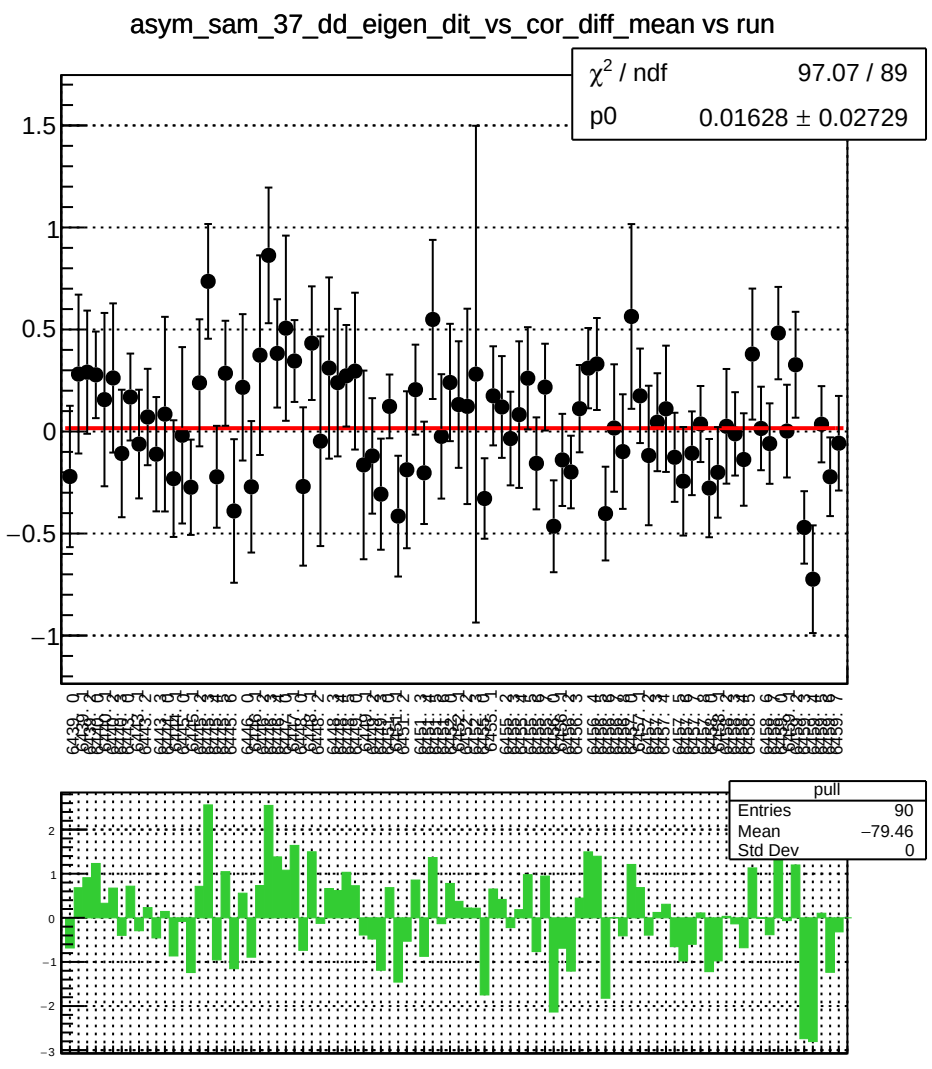

asym_sam_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.07 / 89
p0 0.01628 ± 0.02729
pull
Entries 90
Mean −79.45
Std Dev 0

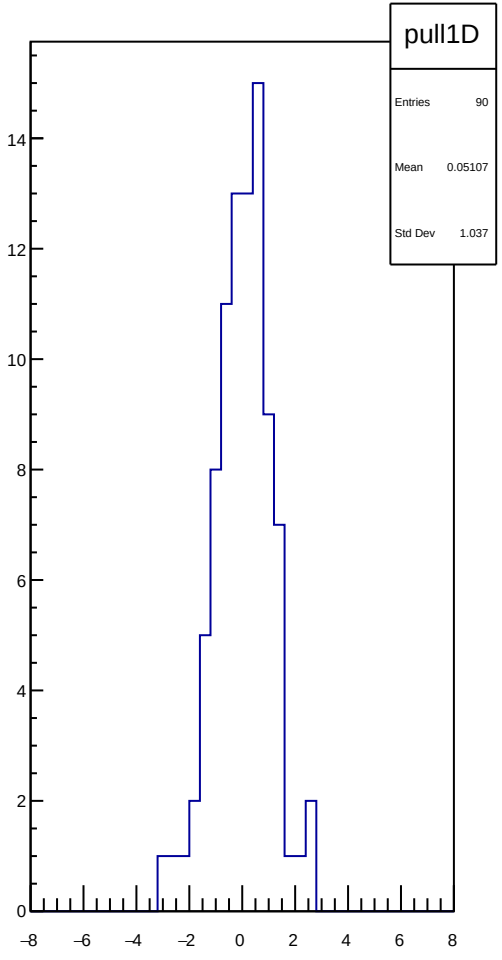

pull1D
Entries 90
Mean 0.05107
Std Dev 1.037

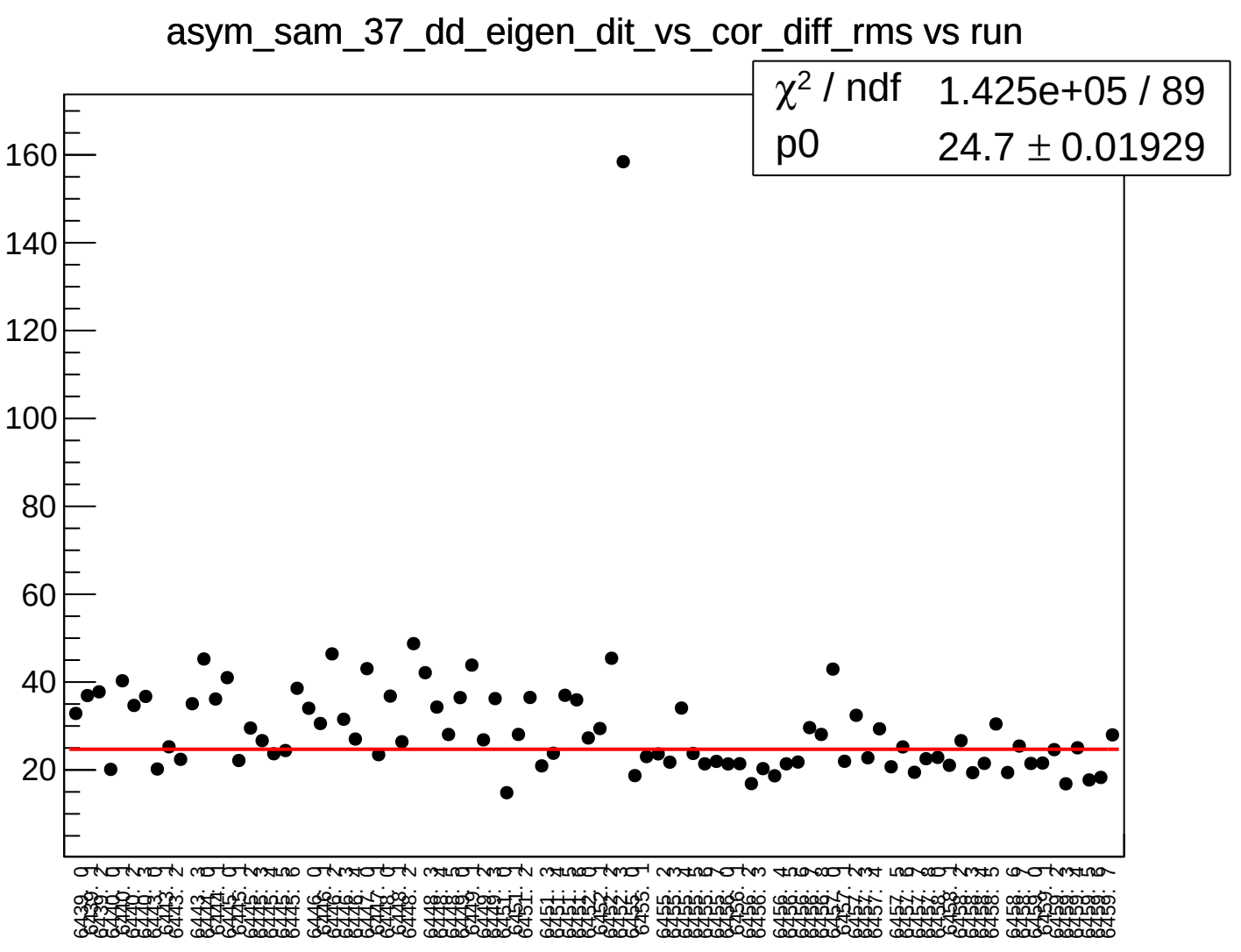

asym_sam_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.425e+05 / 89
p0 24.71 ± 0.01929
160
140
120
100
80
60
40
20

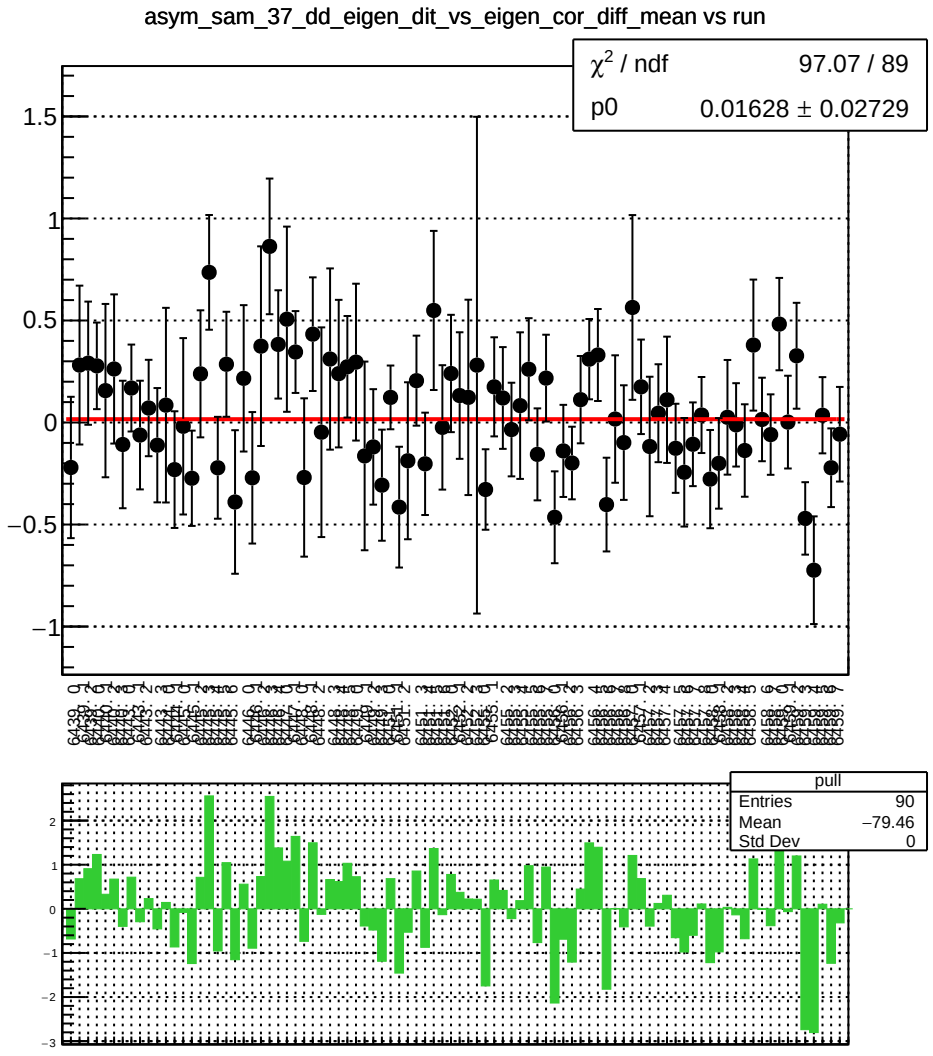

asym_sam_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 69.64 / 89
p0 −3.995e−06 ± 1.507e−06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 90
Mean −803
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.002589
Std Dev 0.8796
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

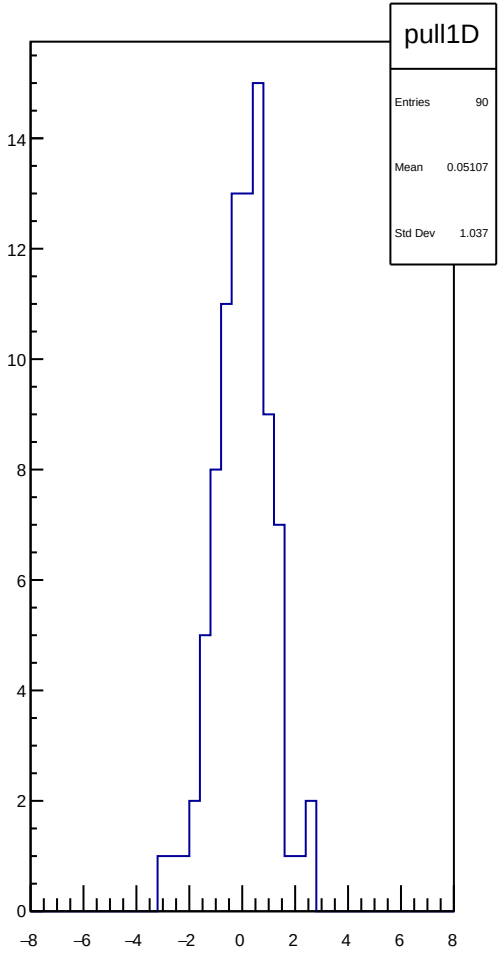

asym_sam_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.075e+04 / 89
p0 0.001418 ± 1.065e−06
0.0018
0.0017
0.0016
0.0015
0.0014
0.0013
0.0012

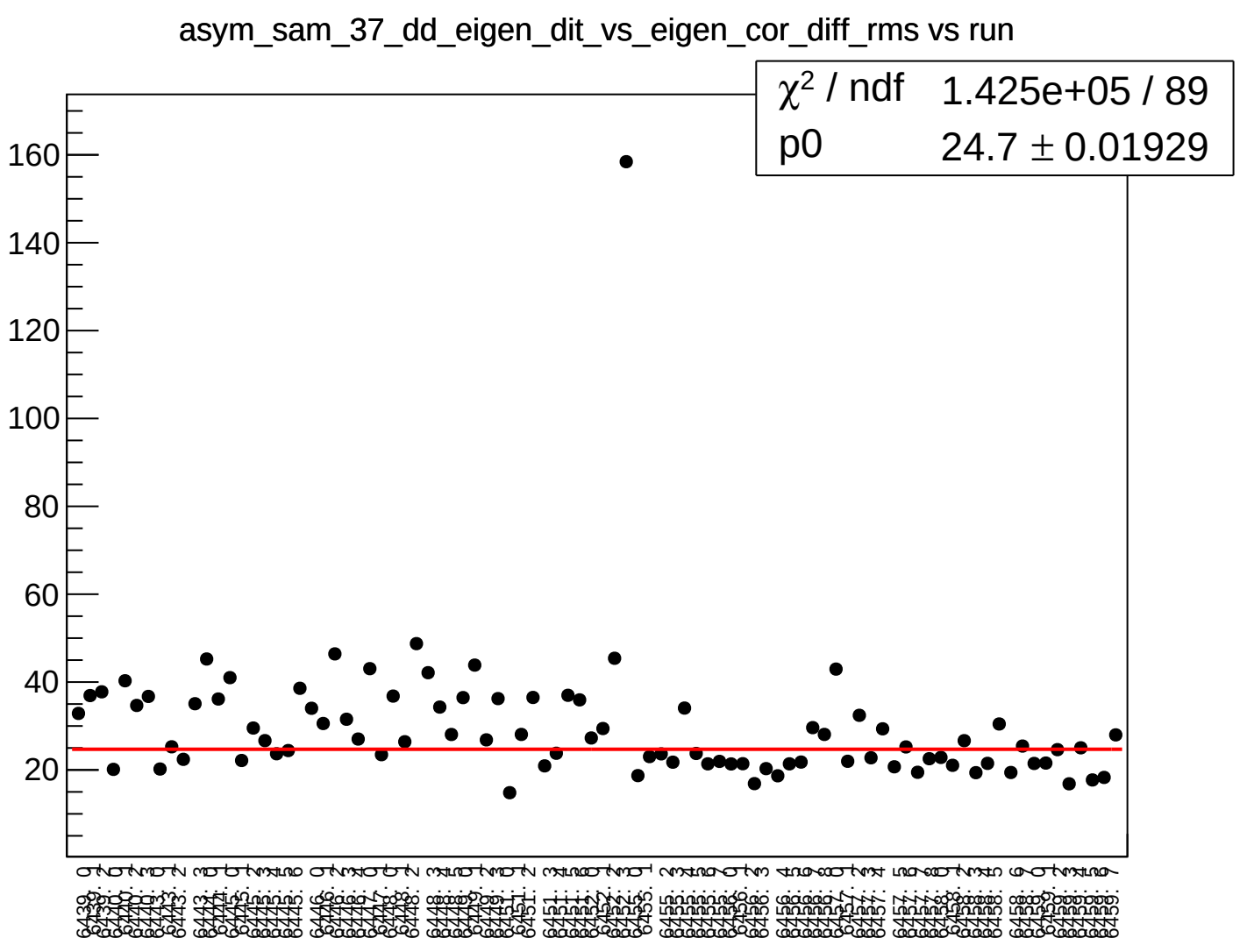

asym_sam_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 97.07 / 89
p0 0.01628 ± 0.02729
pull
Entries 90
Mean −79.46
Std Dev 0

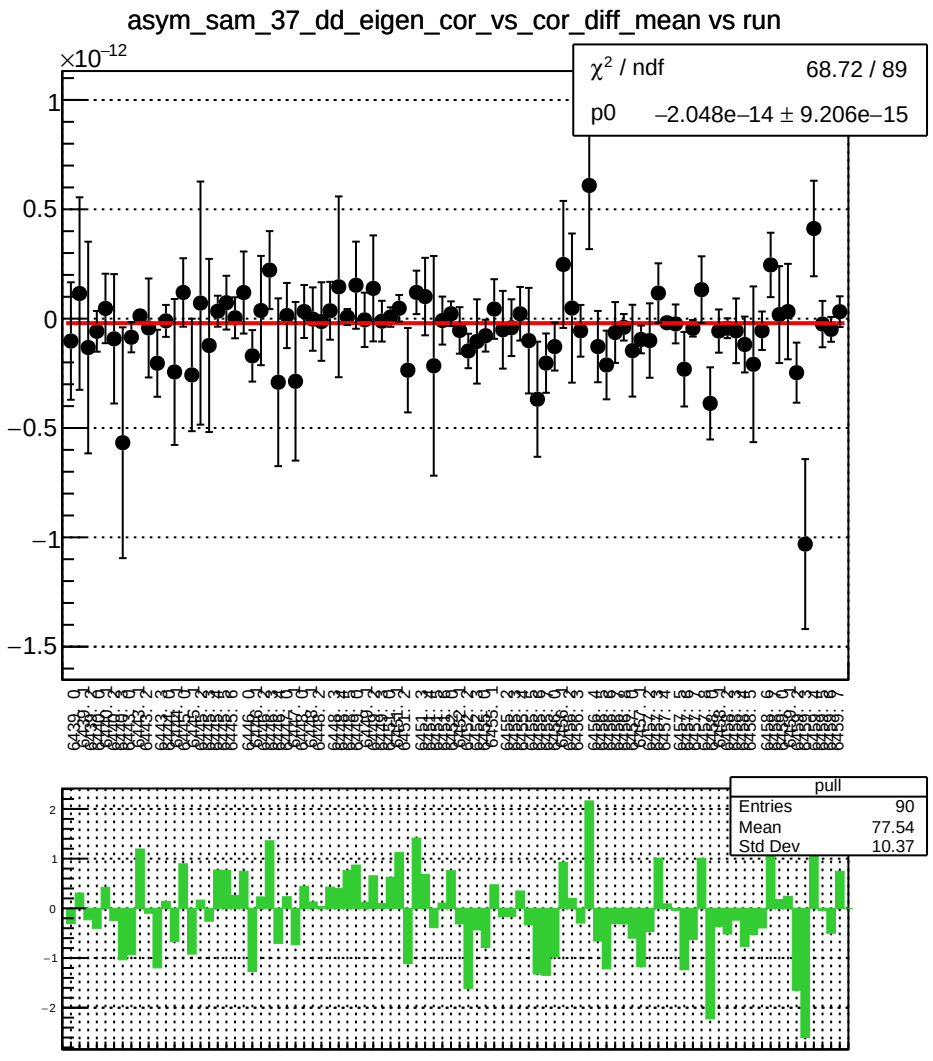

pull1D
Entries 90
Mean 0.05107
Std Dev 1.037

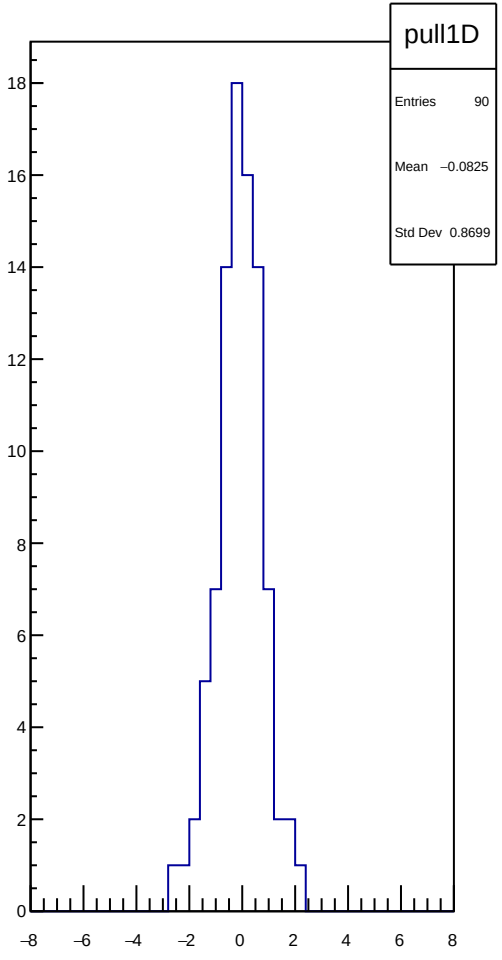

asym_sam_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.425e+05 / 89
p0 24.7 ± 0.01929
160
140
120
100
80
60
40
20

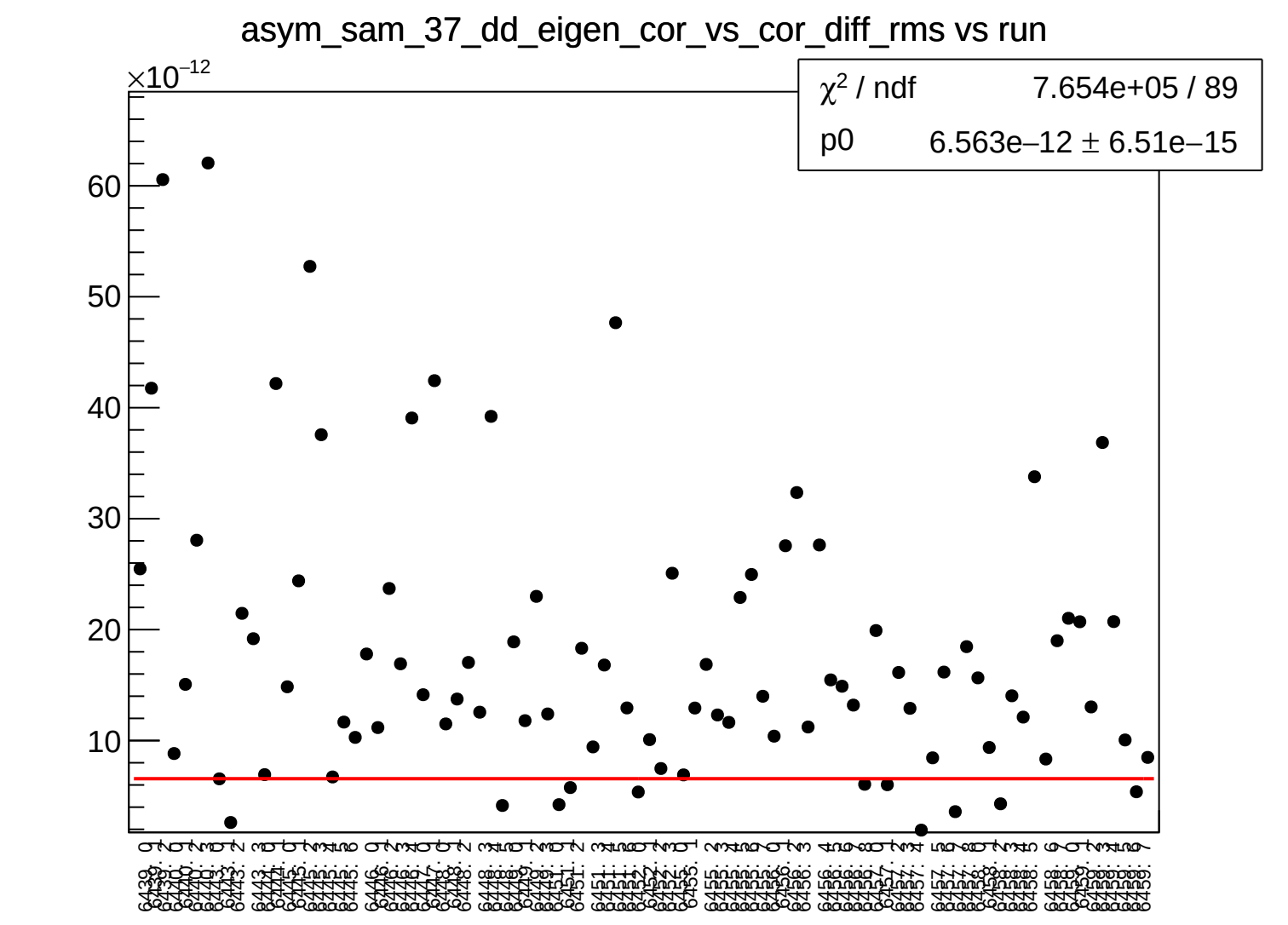

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.07 / 89
p0 0.01628 ± 0.02729
pull
Entries 90
Mean −79.46
Std Dev 0

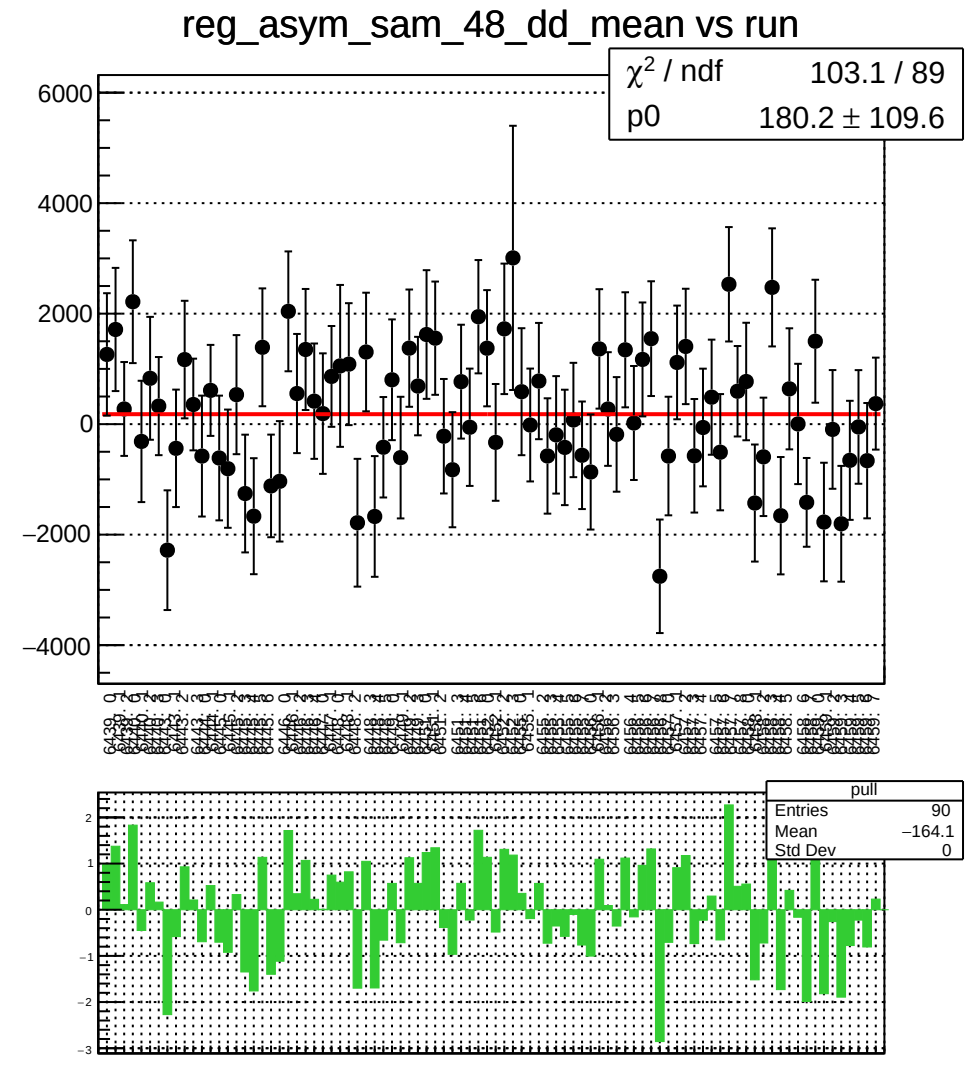

pull1D
Entries 90
Mean 0.05107
Std Dev 1.037

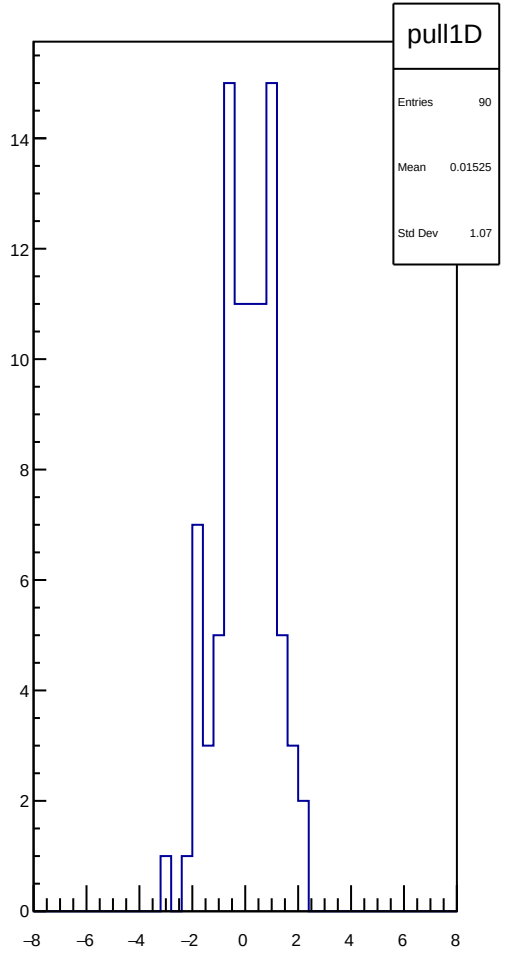

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.425e+05 / 89
p0 24.7 ± 0.01929
160
140
120
100
80
60
40
20

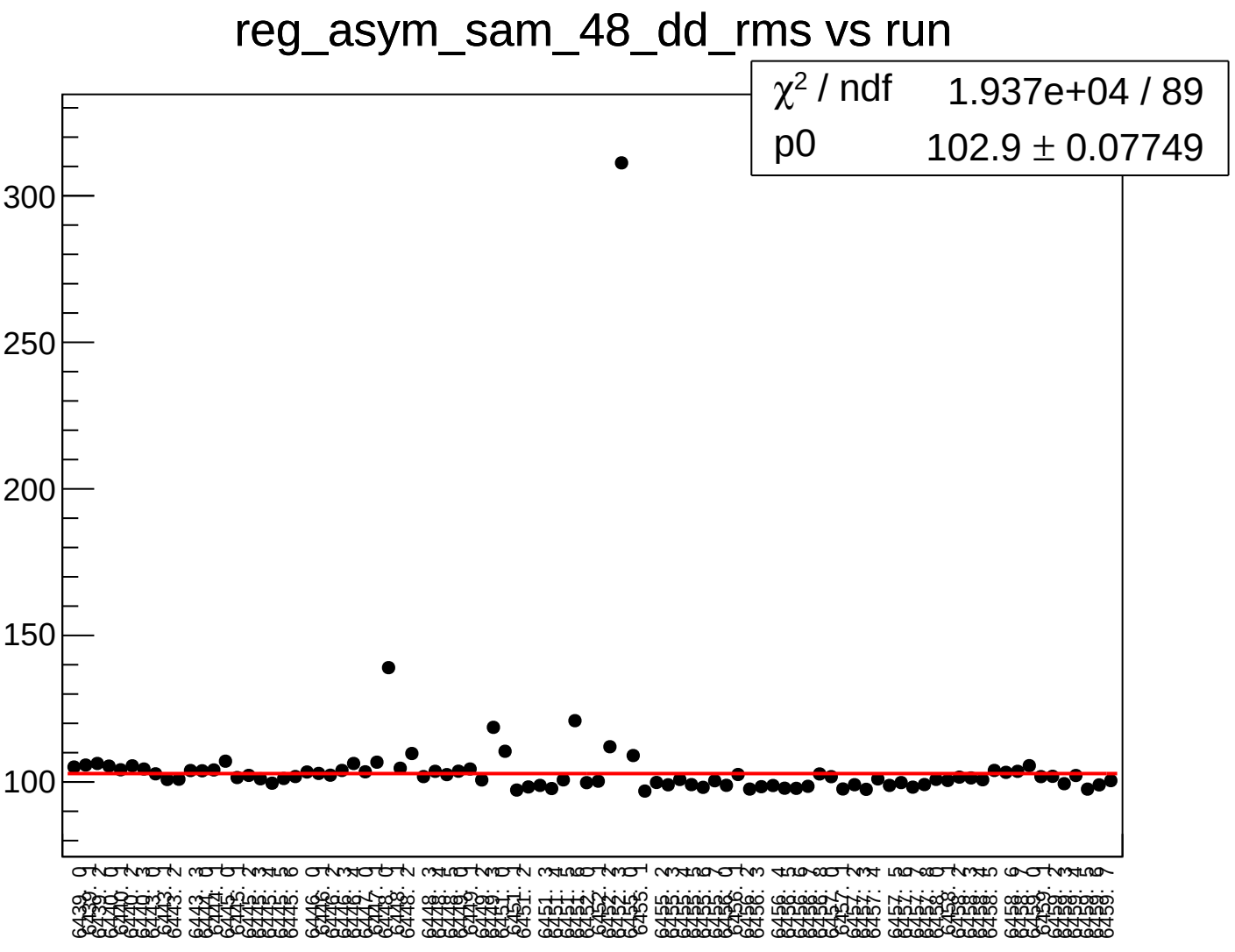

asym_sam_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 68.72 / 89
p0 −2.048e−14 ± 9.206e−15
pull
Entries 90
Mean 77.54
Std Dev 10.37

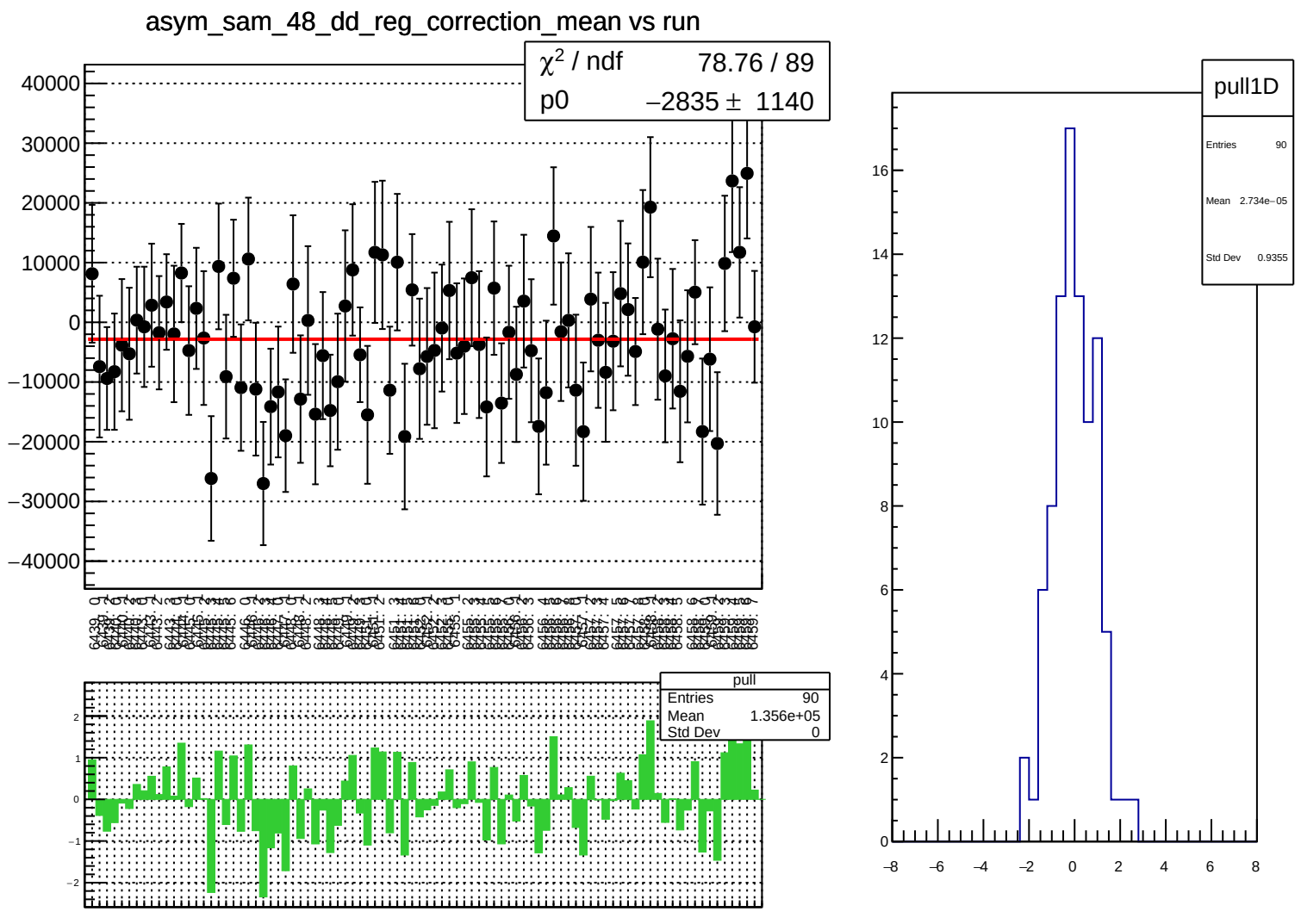

pull1D
Entries 90
Mean −0.0825
Std Dev 0.8699

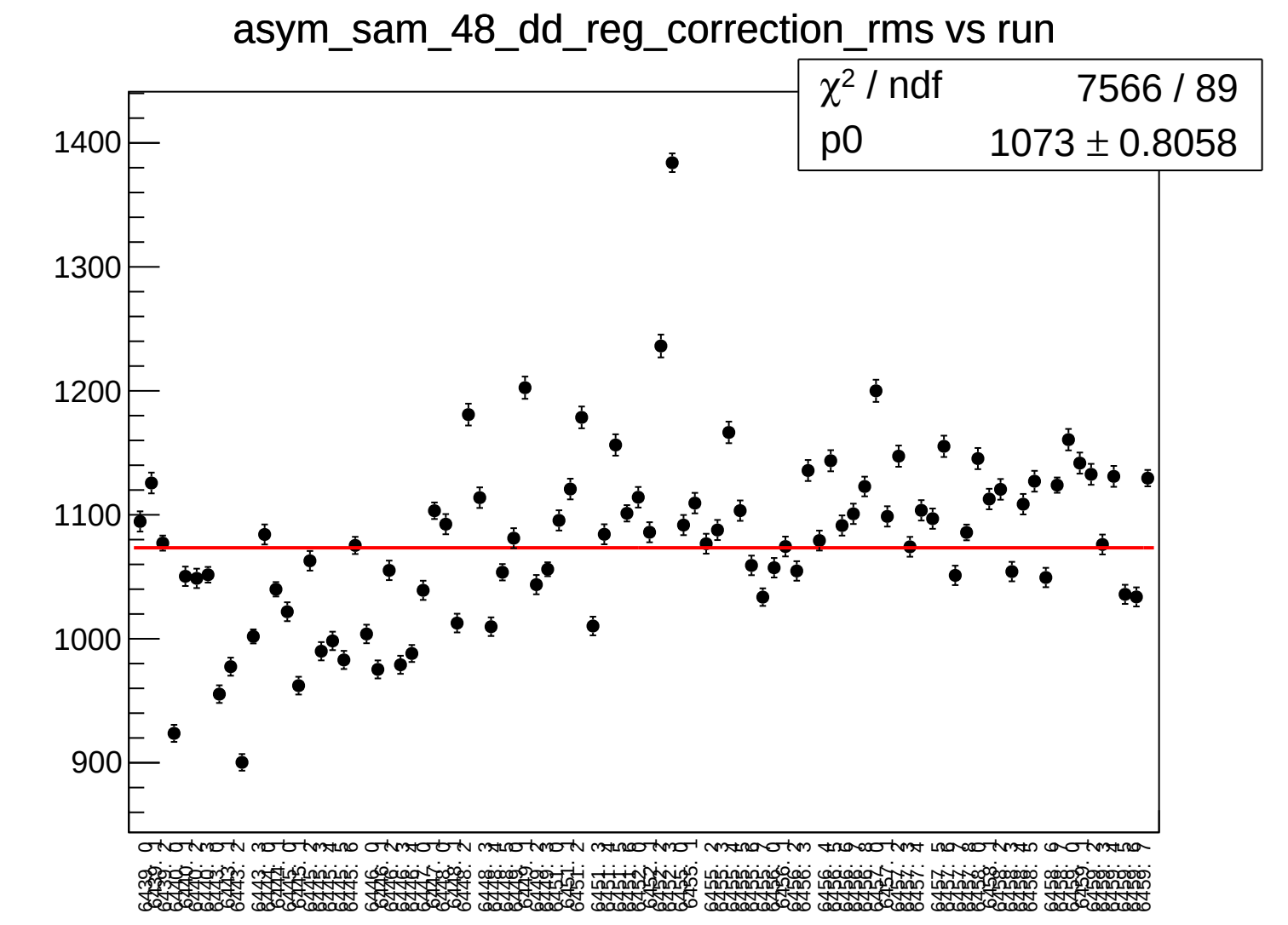

asym_sam_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.654e+05 / 89
p0 6.563e−12 ± 6.51e−15
60
50
40
30
20
10

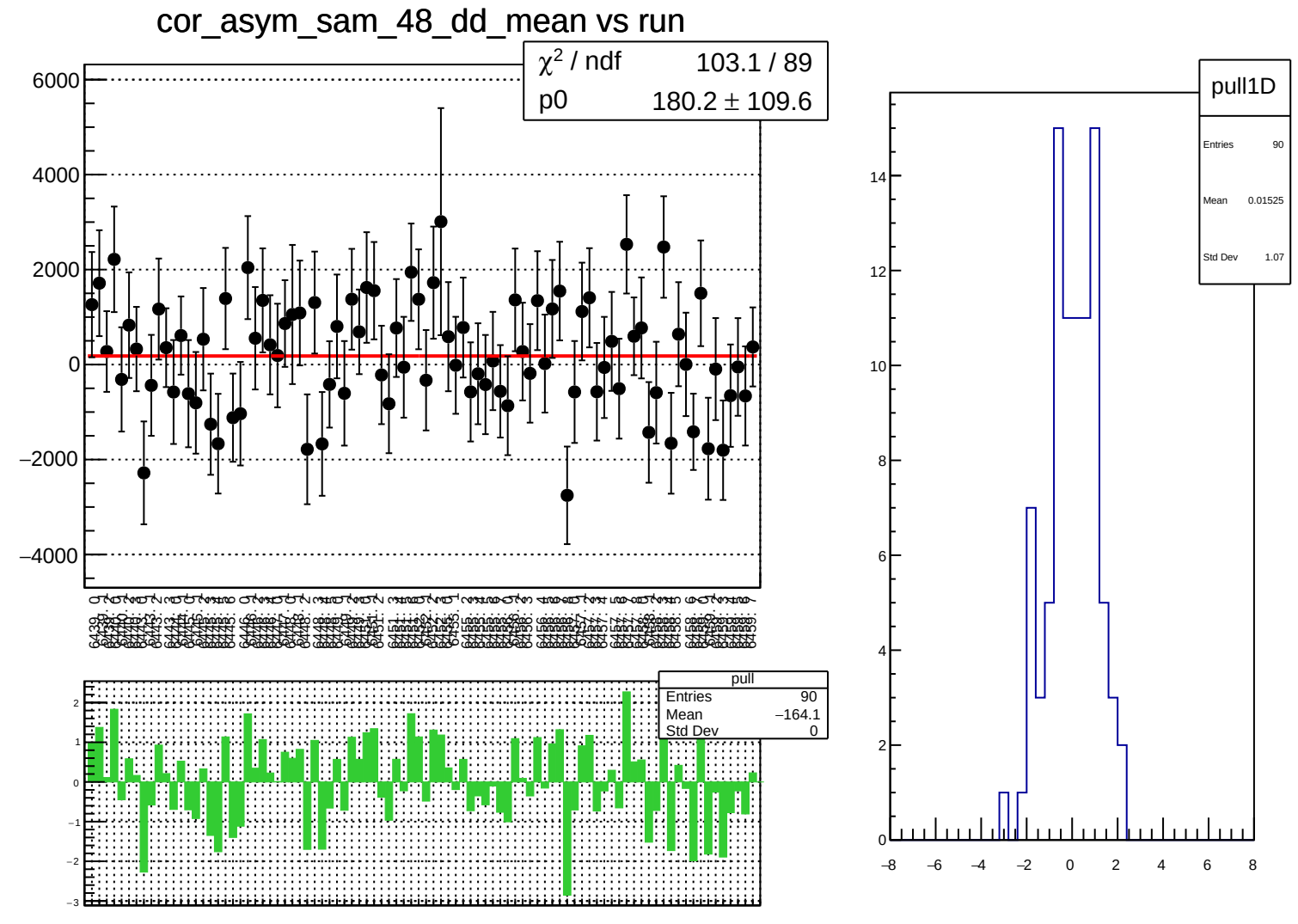

reg_asym_sam_48_dd_mean vs run
χ² / ndf 103.1 / 89
p0 180.2 ± 109.6
6000
4000
2000
0
−2000
−4000
pull
Entries 90
Mean −164.1
Std Dev 0
2
1
0
−1
−2
−3

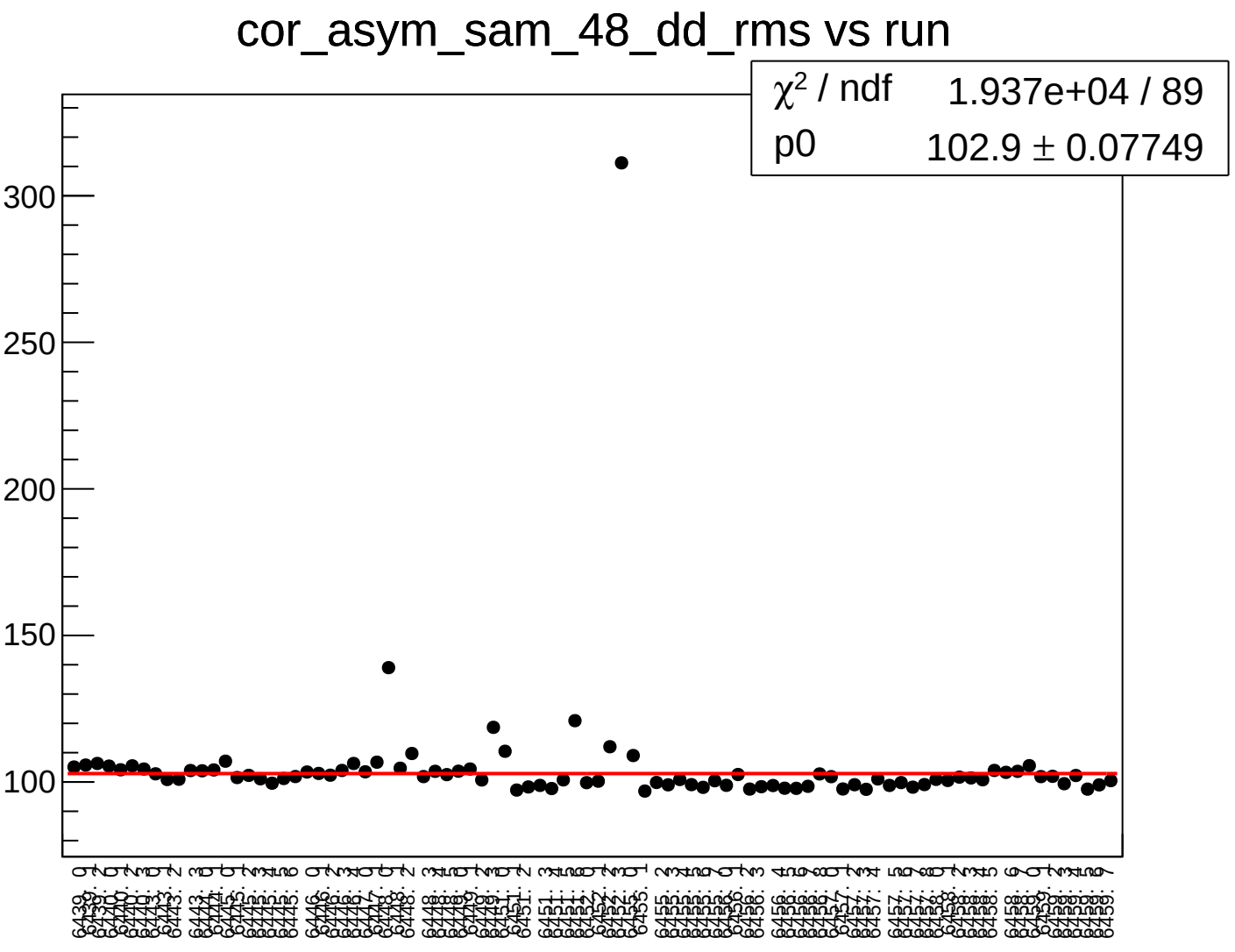

pull1D
Entries 90
Mean 0.01525
Std Dev 1.07
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

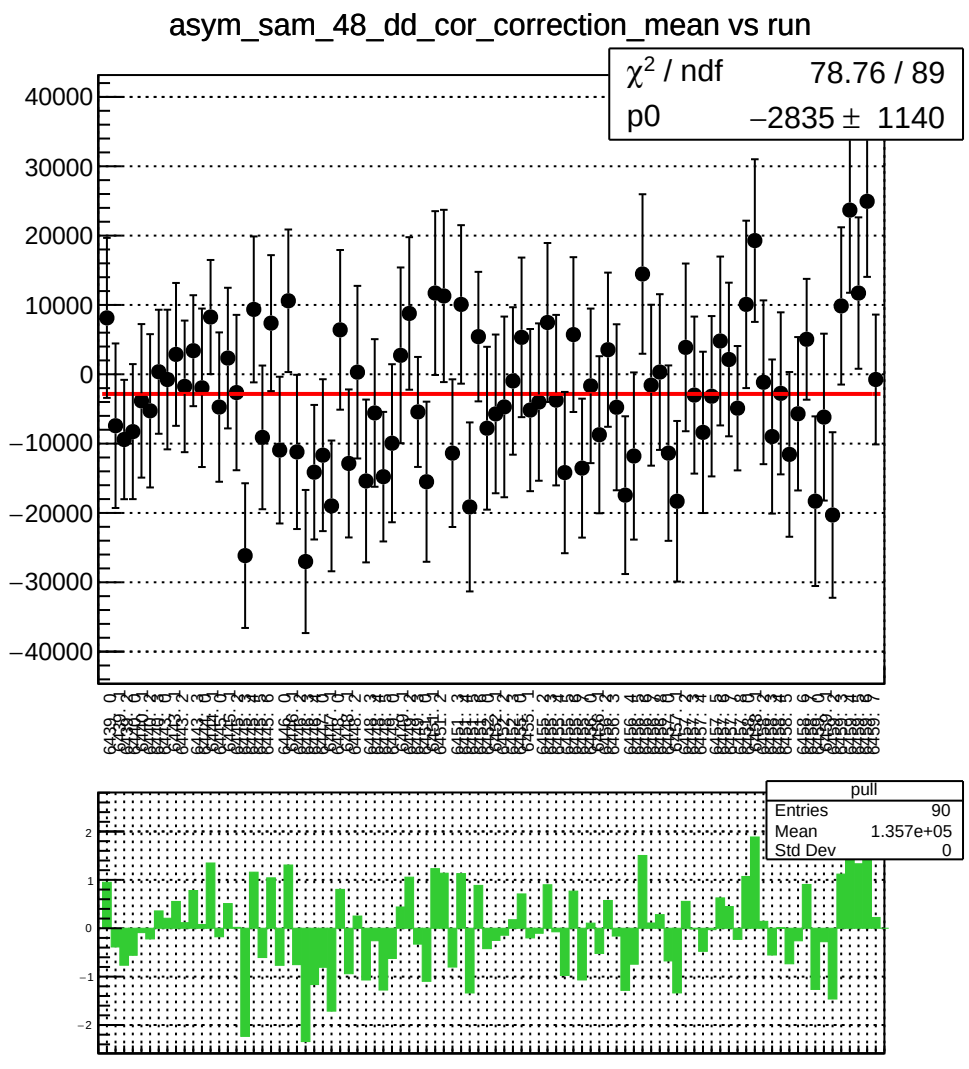

reg_asym_sam_48_dd_rms vs run
χ² / ndf 1.937e+04 / 89
p0 102.9 ± 0.07749
300
250
200
150
100

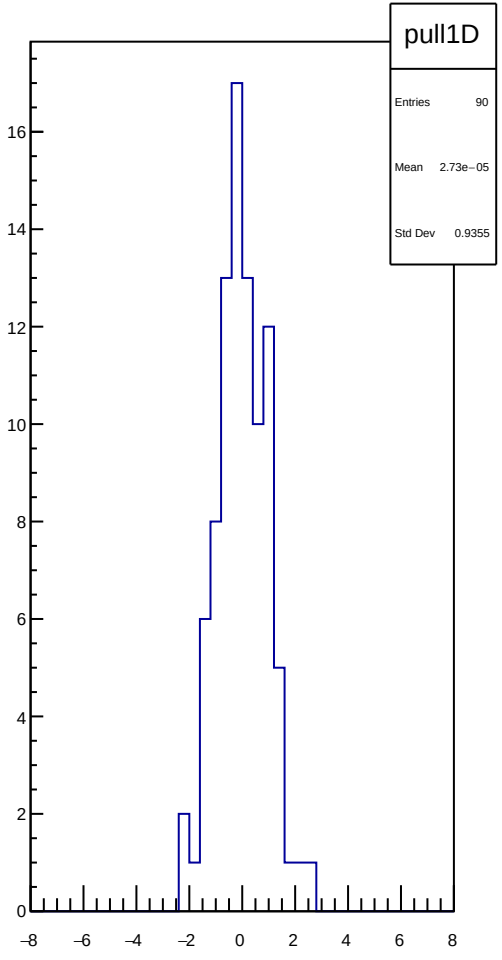

asym_sam_48_dd_reg_correction_mean vs run
χ² / ndf 78.76 / 89
p0 −2835 ± 1140
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 90
Mean 1.356e+05
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 90
Mean 2.734e−05
Std Dev 0.9355
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

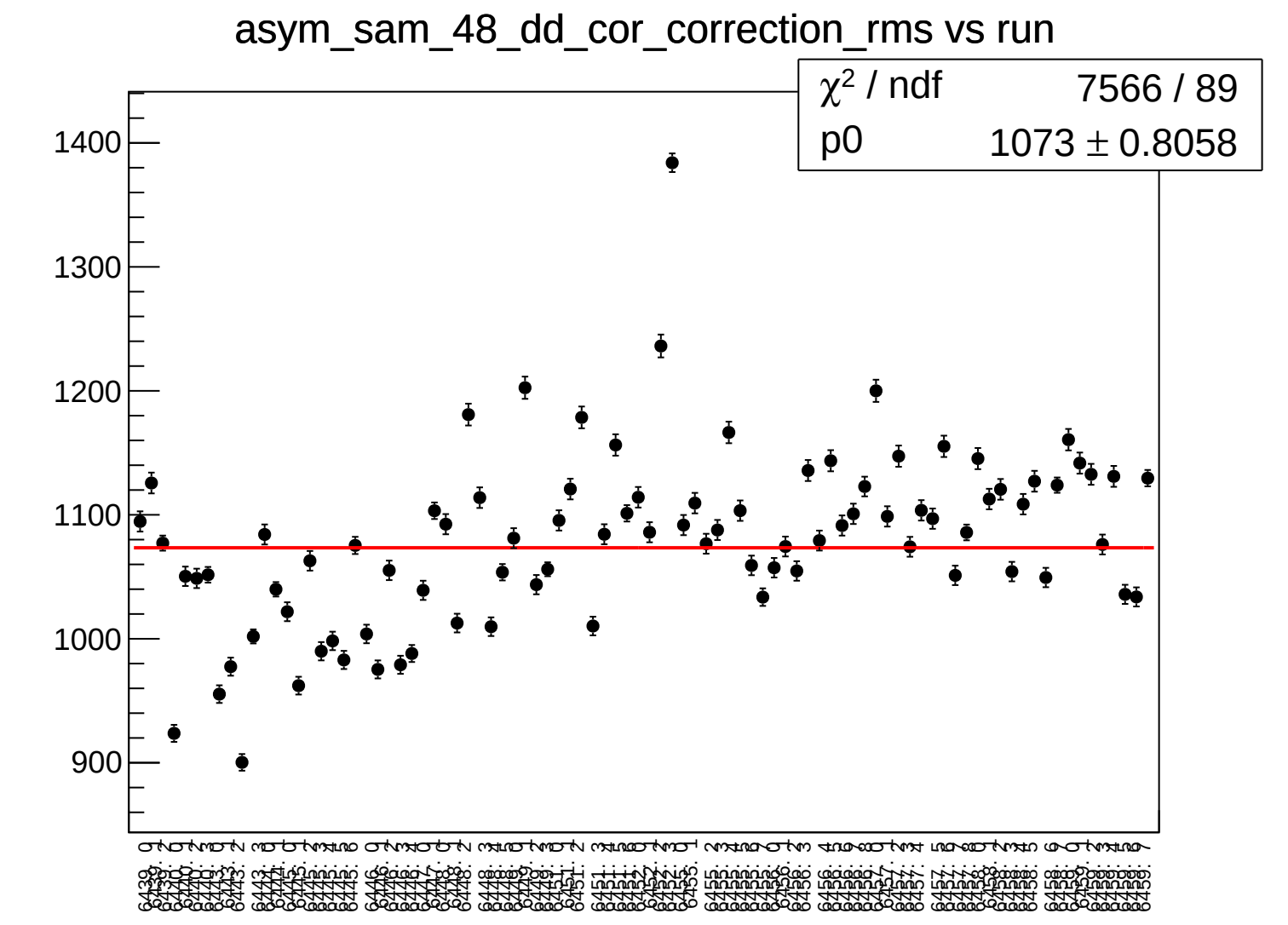

asym_sam_48_dd_reg_correction_rms vs run
χ² / ndf 7566 / 89
p0 1073 ± 0.8058
1400
1300
1200
1100
1000
900

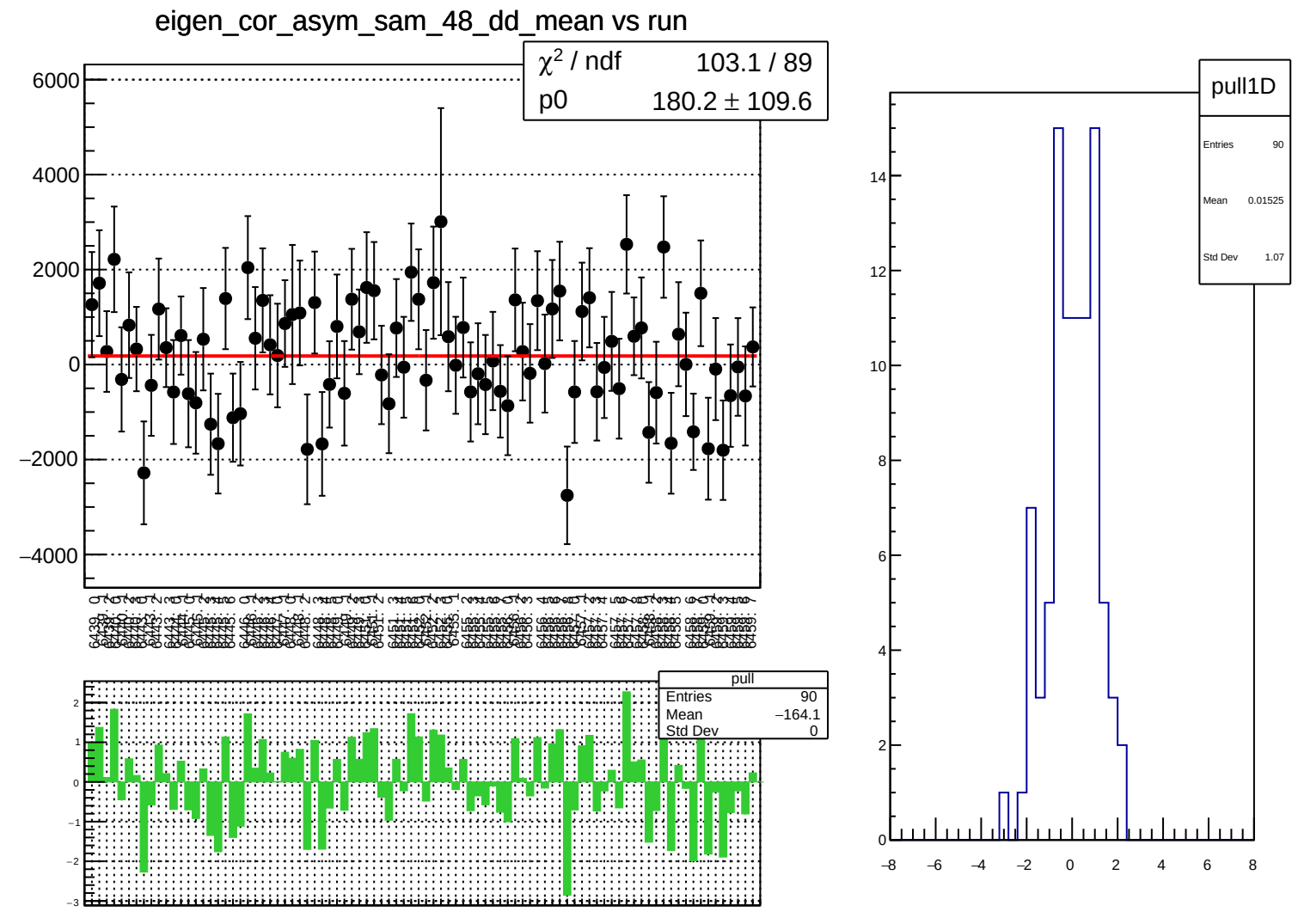

cor_asym_sam_48_dd_mean vs run
χ² / ndf 103.1 / 89
p0 180.2 ± 109.6
6000
4000
2000
0
−2000
−4000
pull
Entries 90
Mean −164.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 90
Mean 0.01525
Std Dev 1.07
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

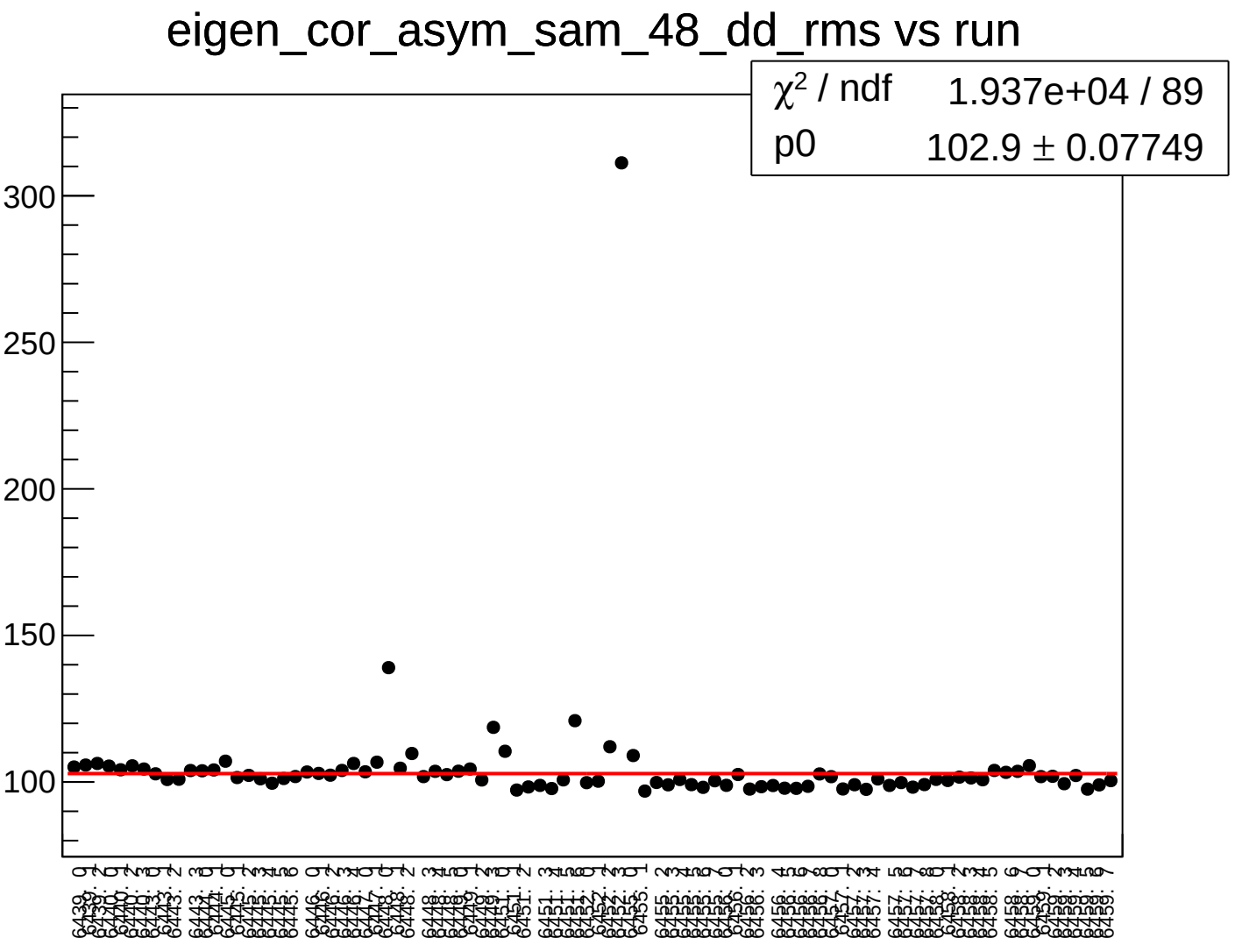

cor_asym_sam_48_dd_rms vs run
χ² / ndf 1.937e+04 / 89
p0 102.9 ± 0.07749
300
250
200
150
100

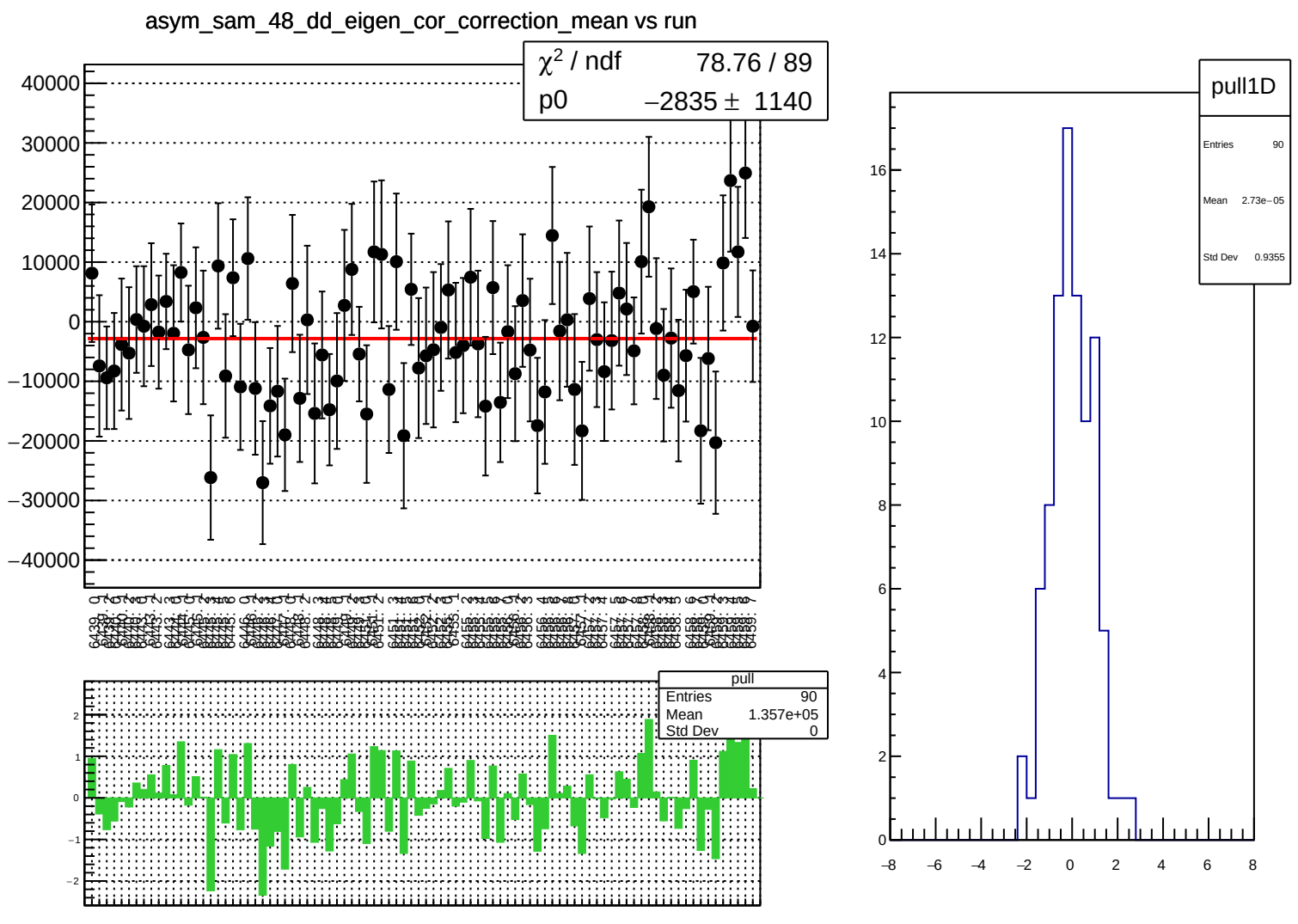

asym_sam_48_dd_cor_correction_mean vs run
χ² / ndf 78.76 / 89
p0 −2835 ± 1140
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 90
Mean 1.357e+05
Std Dev 0
2
1
0
−1
−2

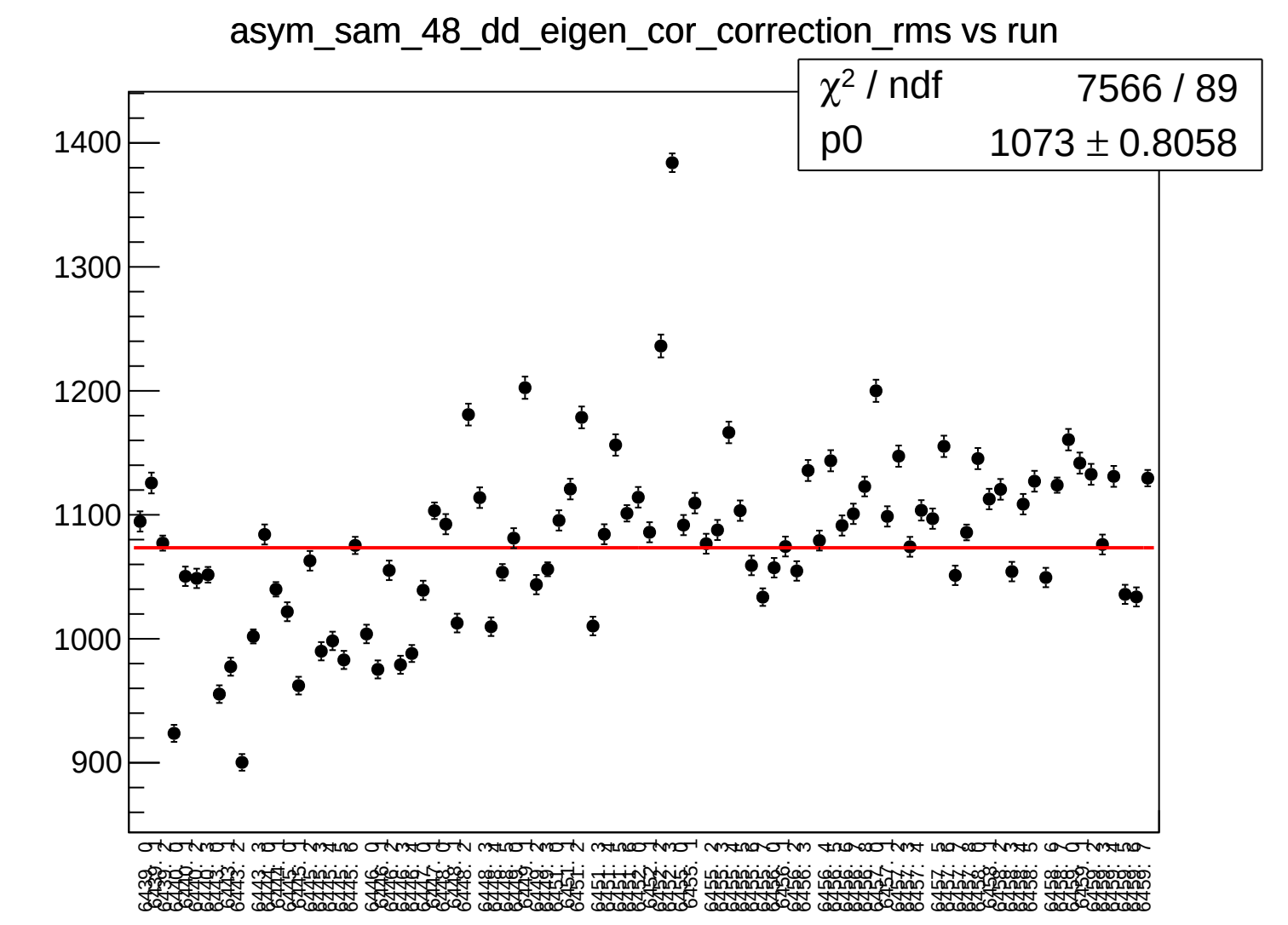

pull1D
Entries 90
Mean 2.73e−05
Std Dev 0.9355
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

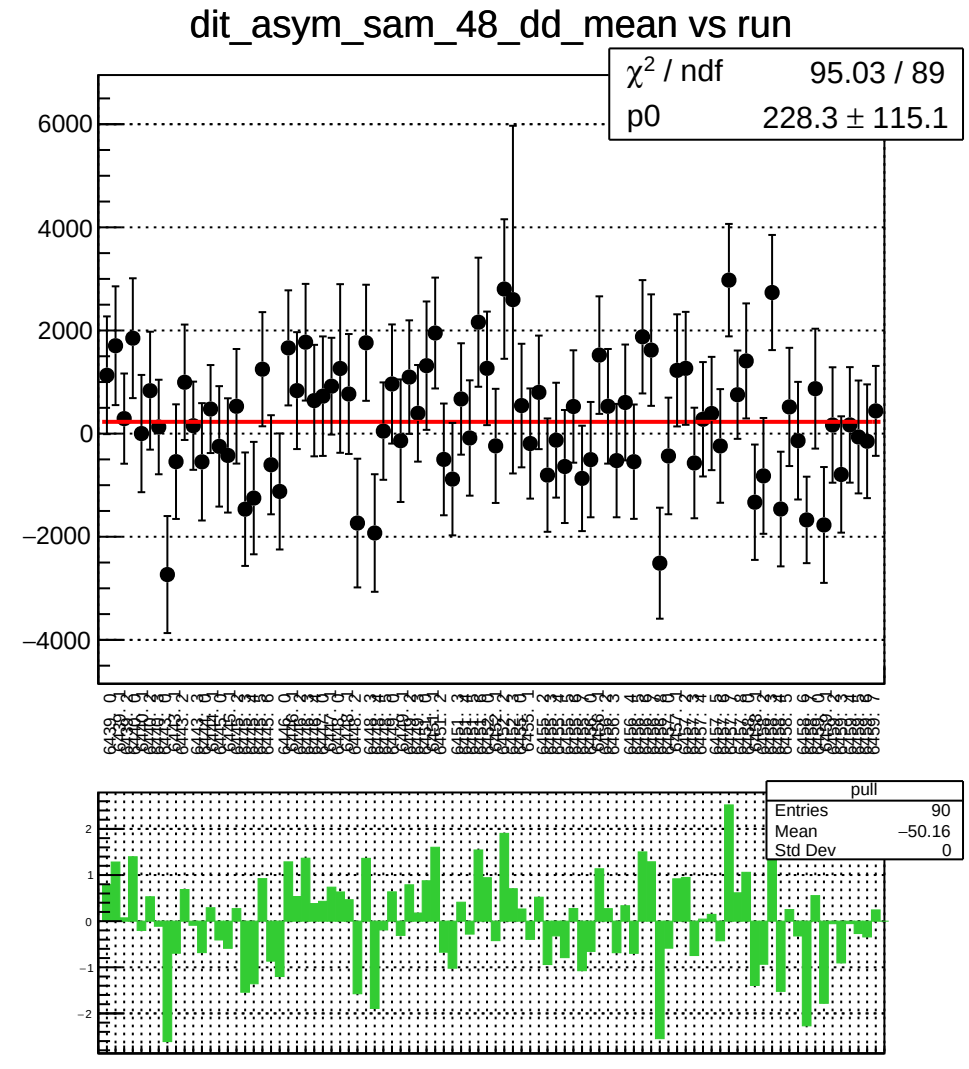

asym_sam_48_dd_cor_correction_rms vs run
χ² / ndf 7566 / 89
p0 1073 ± 0.8058
1400
1300
1200
1100
1000
900

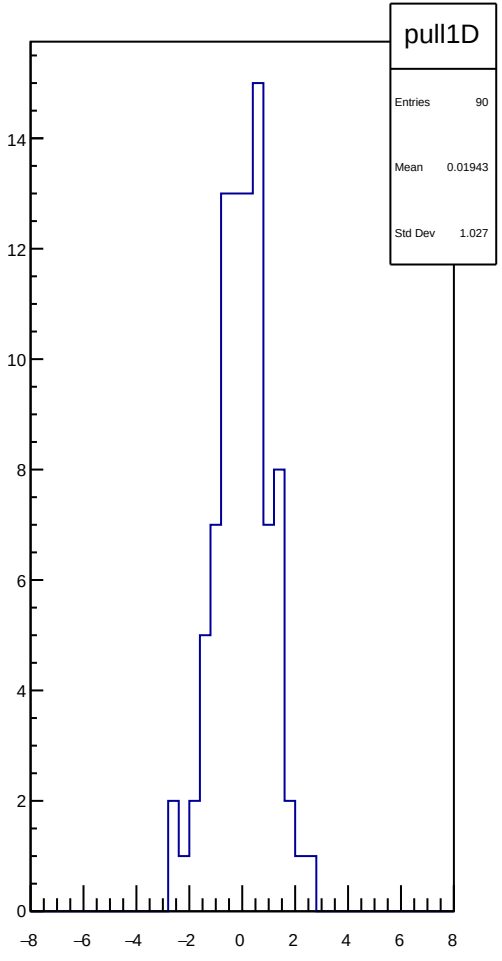

eigen_cor_asym_sam_48_dd_mean vs run
χ² / ndf 103.1 / 89
p0 180.2 ± 109.6
6000
4000
2000
0
−2000
−4000
pull
Entries 90
Mean −164.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 90
Mean 0.01525
Std Dev 1.07
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

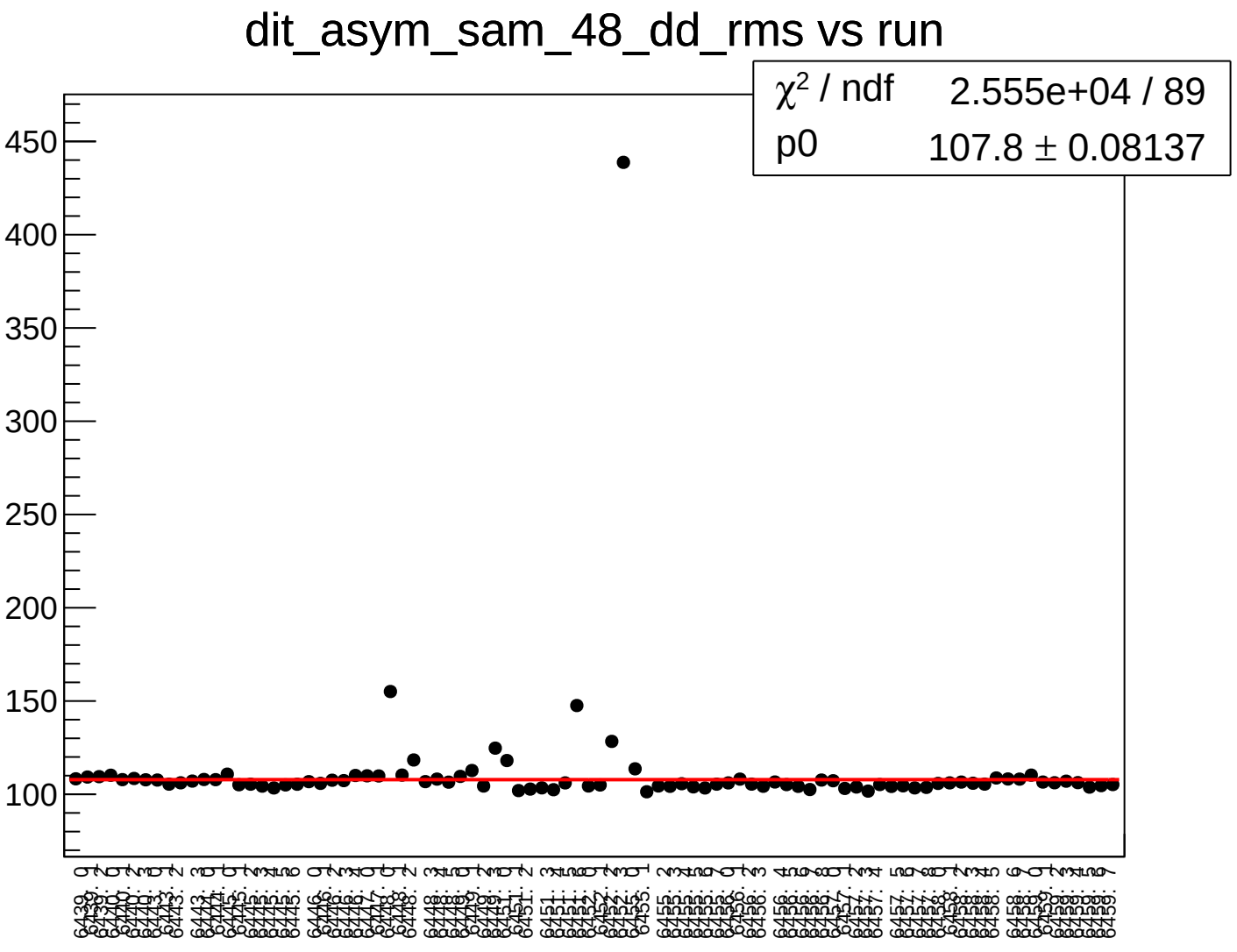

eigen_cor_asym_sam_48_dd_rms vs run
χ² / ndf 1.937e+04 / 89
p0 102.9 ± 0.07749
300
250
200
150
100

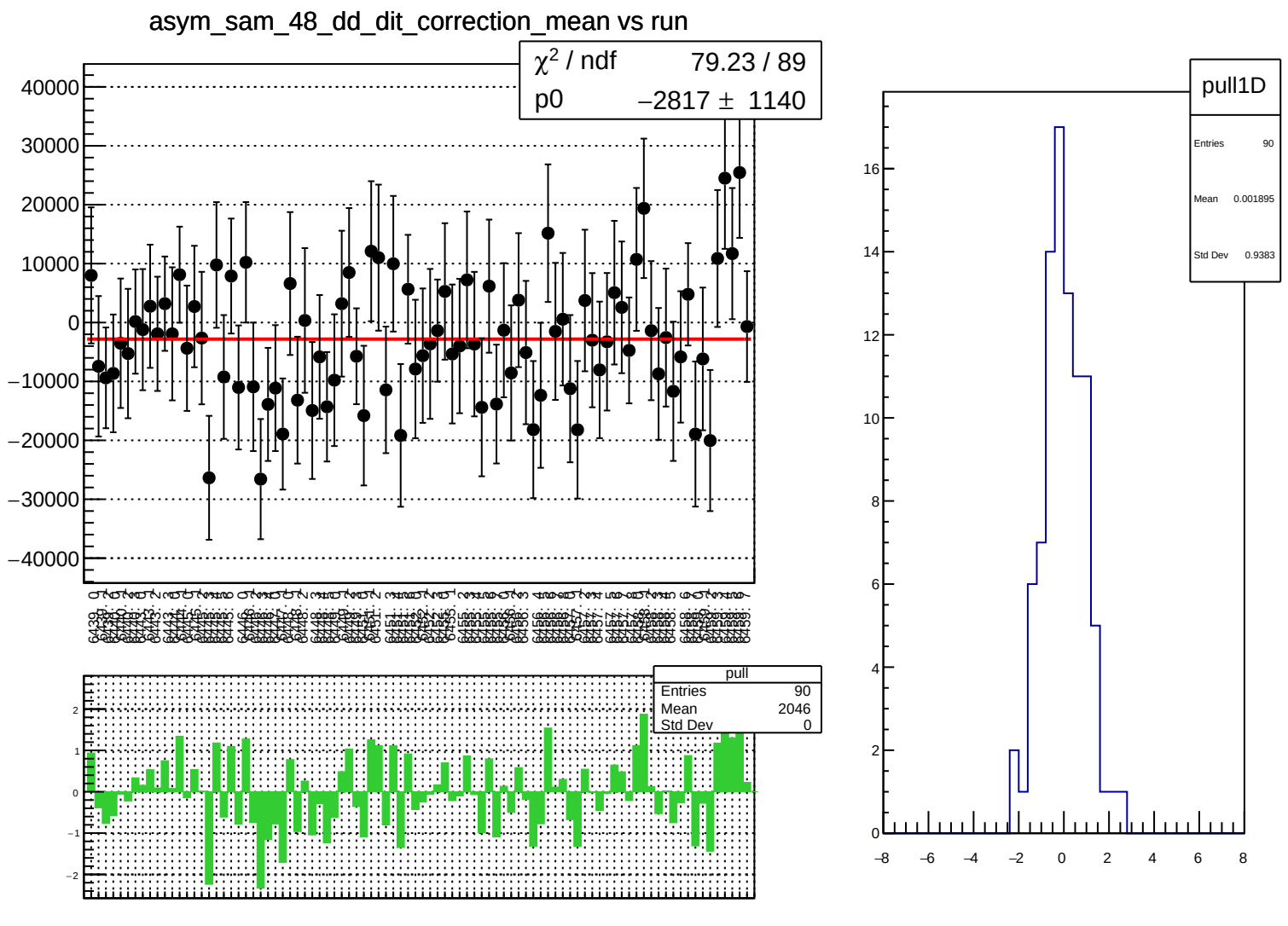

asym_sam_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 78.76 / 89
p0 −2835 ± 1140
pull
Entries 90
Mean 1.357e+05
Std Dev 0
pull1D
Entries 90
Mean 2.73e−05
Std Dev 0.9355

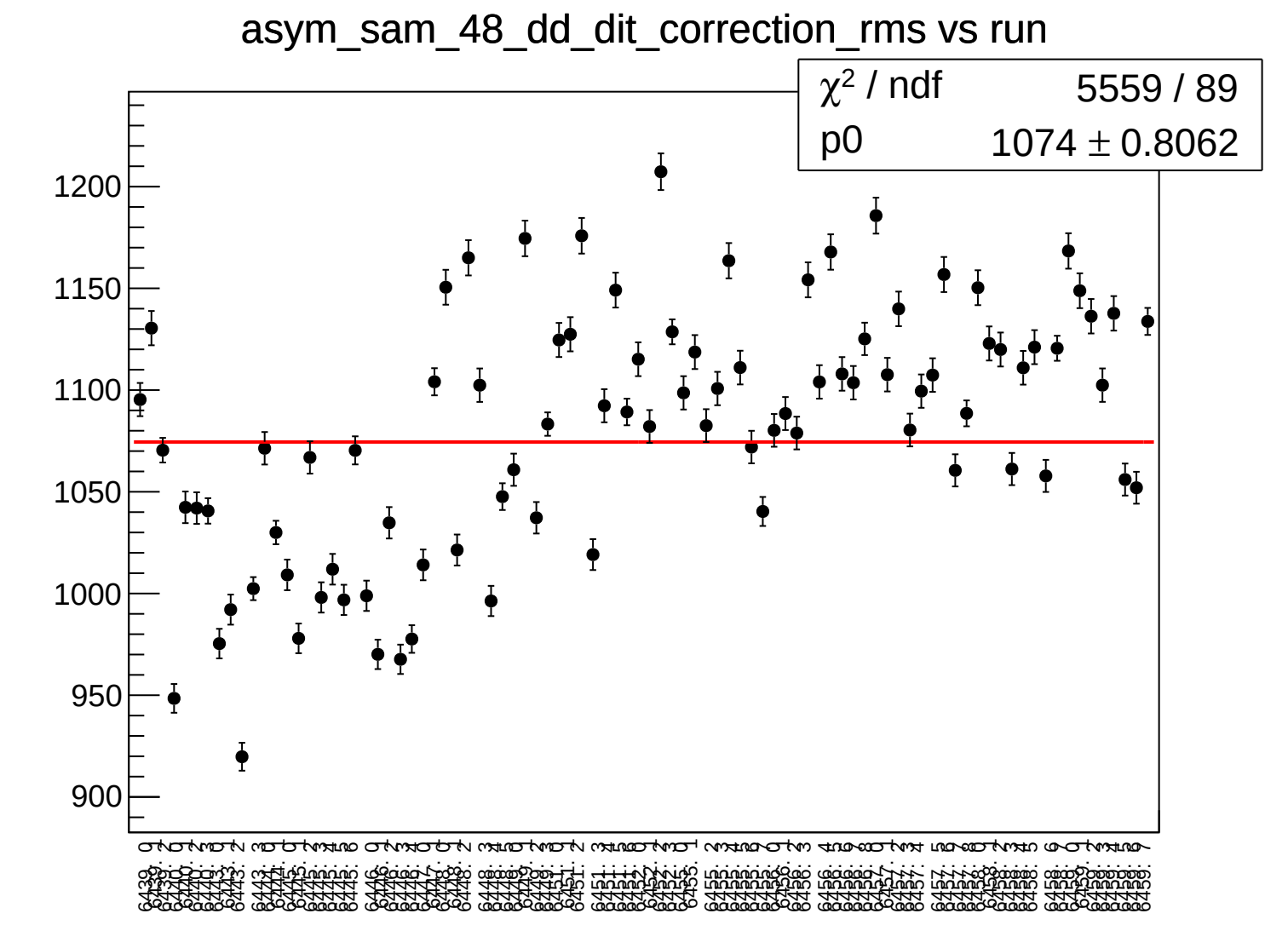

asym_sam_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 7566 / 89
p0 1073 ± 0.8058
1400
1300
1200
1100
1000
900

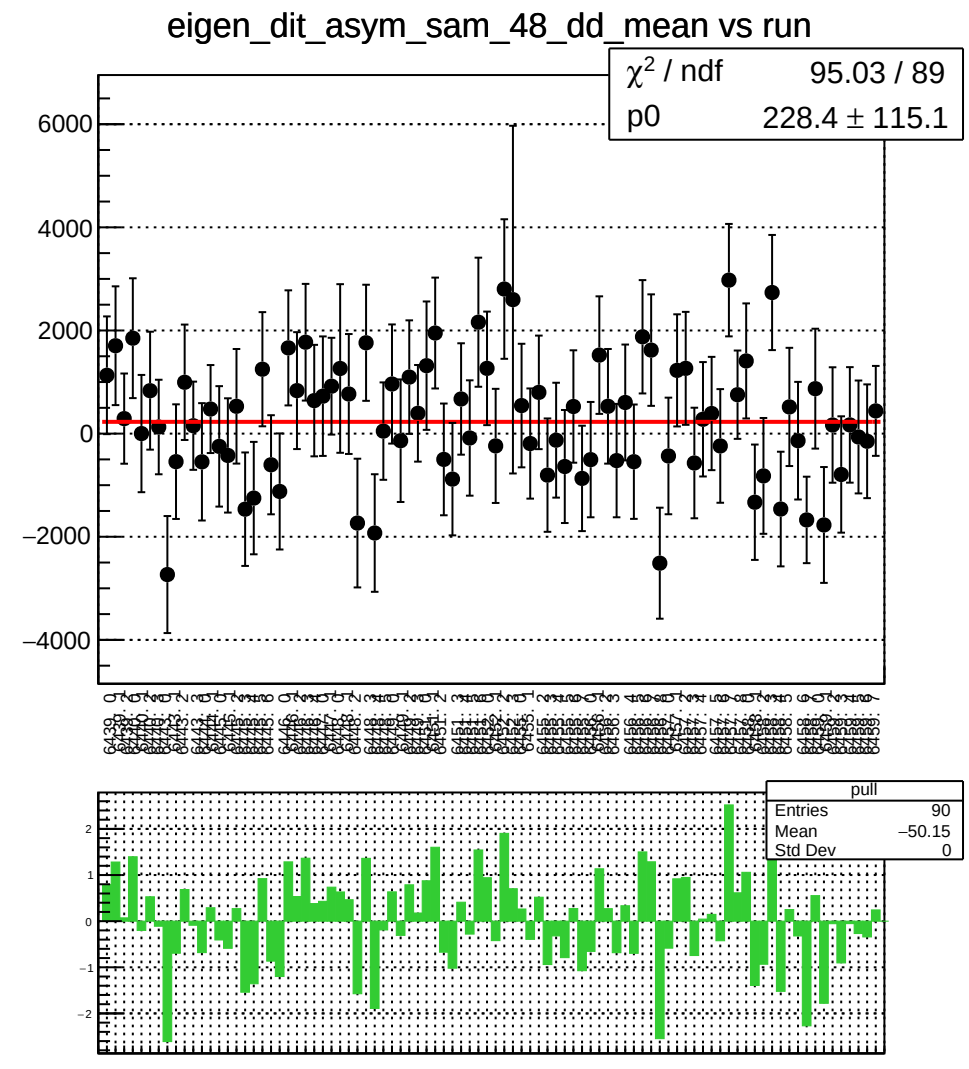

dit_asym_sam_48_dd_mean vs run
χ² / ndf 95.03 / 89
p0 228.3 ± 115.1
6000
4000
2000
0
−2000
−4000
pull
Entries 90
Mean −50.16
Std Dev 0
2
1
0
−1
−2

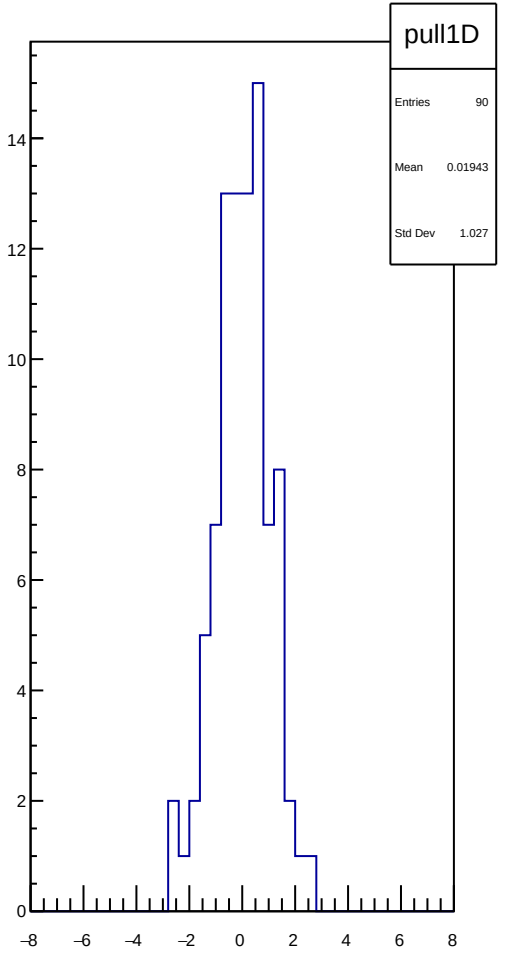

pull1D
Entries 90
Mean 0.01943
Std Dev 1.027
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

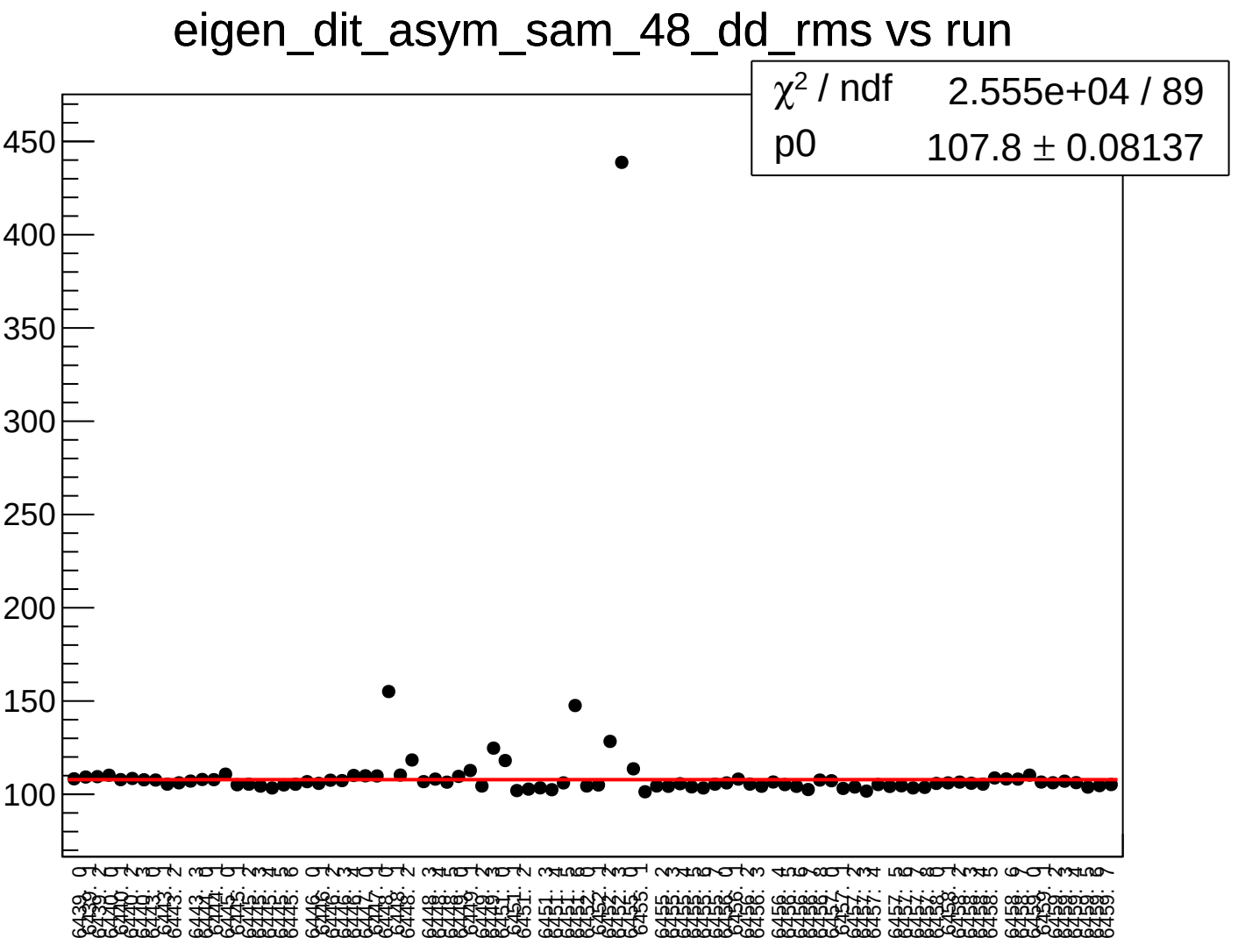

dit_asym_sam_48_dd_rms vs run
χ^2 / ndf 2.555e+04 / 89
p0 107.8 ± 0.08137
450
400
350
300
250
200
150
100

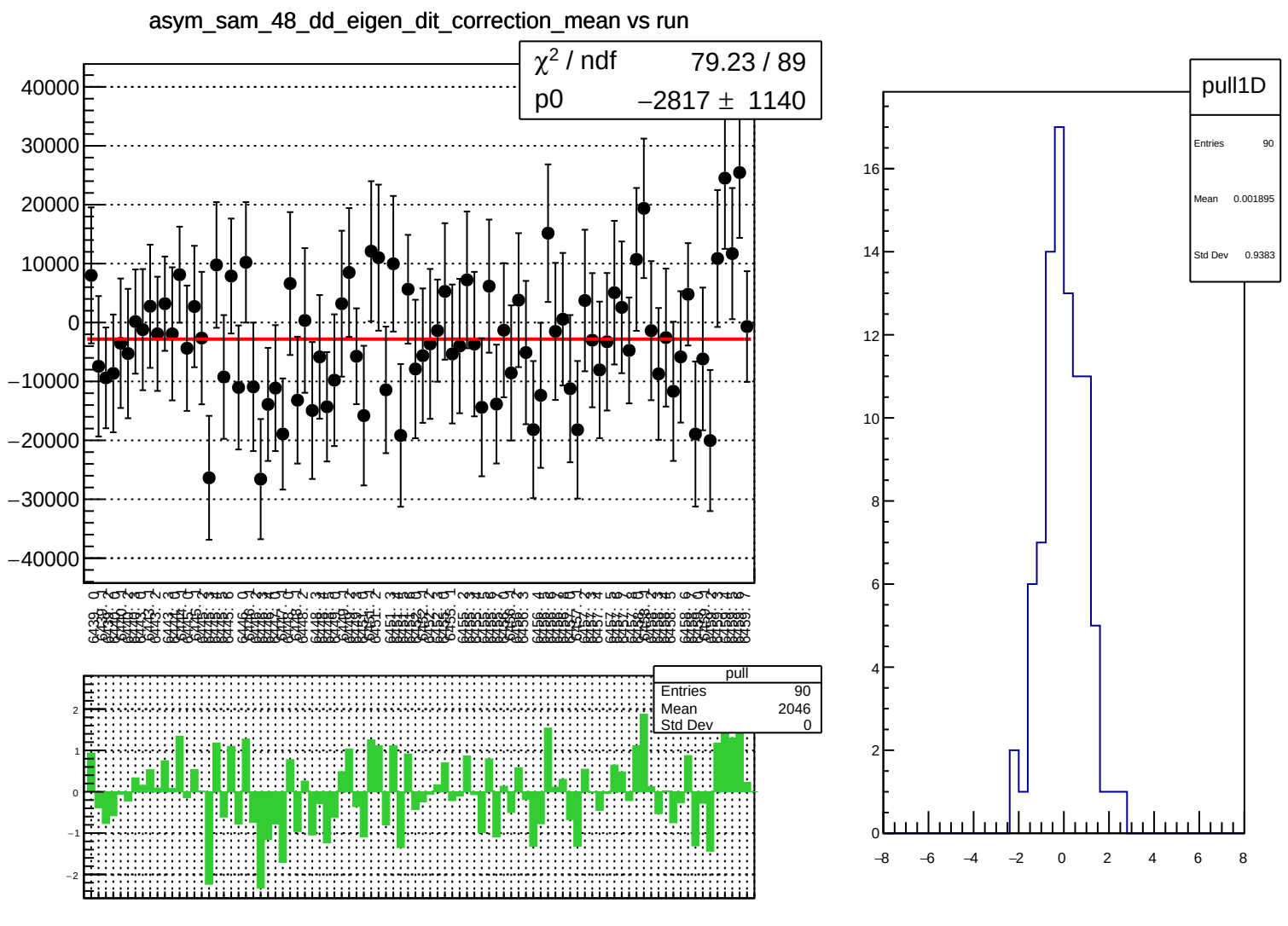

asym_sam_48_dd_dit_correction_mean vs run
χ² / ndf 79.23 / 89
p0 −2817 ± 1140
pull
Entries 90
Mean 2046
Std Dev 0
pull1D
Entries 90
Mean 0.001895
Std Dev 0.9383

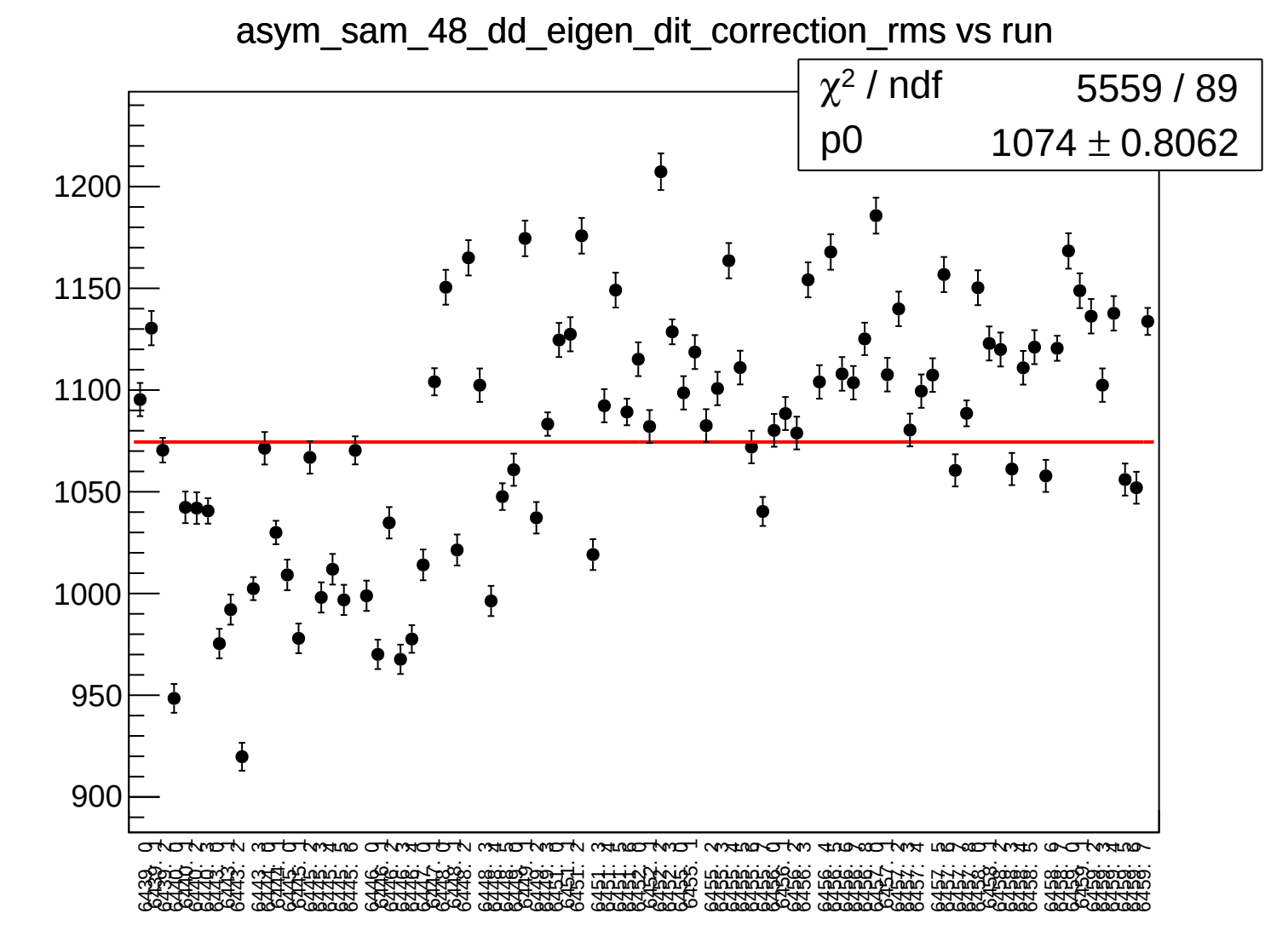

asym_sam_48_dd_dit_correction_rms vs run
χ² / ndf 5559 / 89
p0 1074 ± 0.8062
1200
1150
1100
1050
1000
950
900

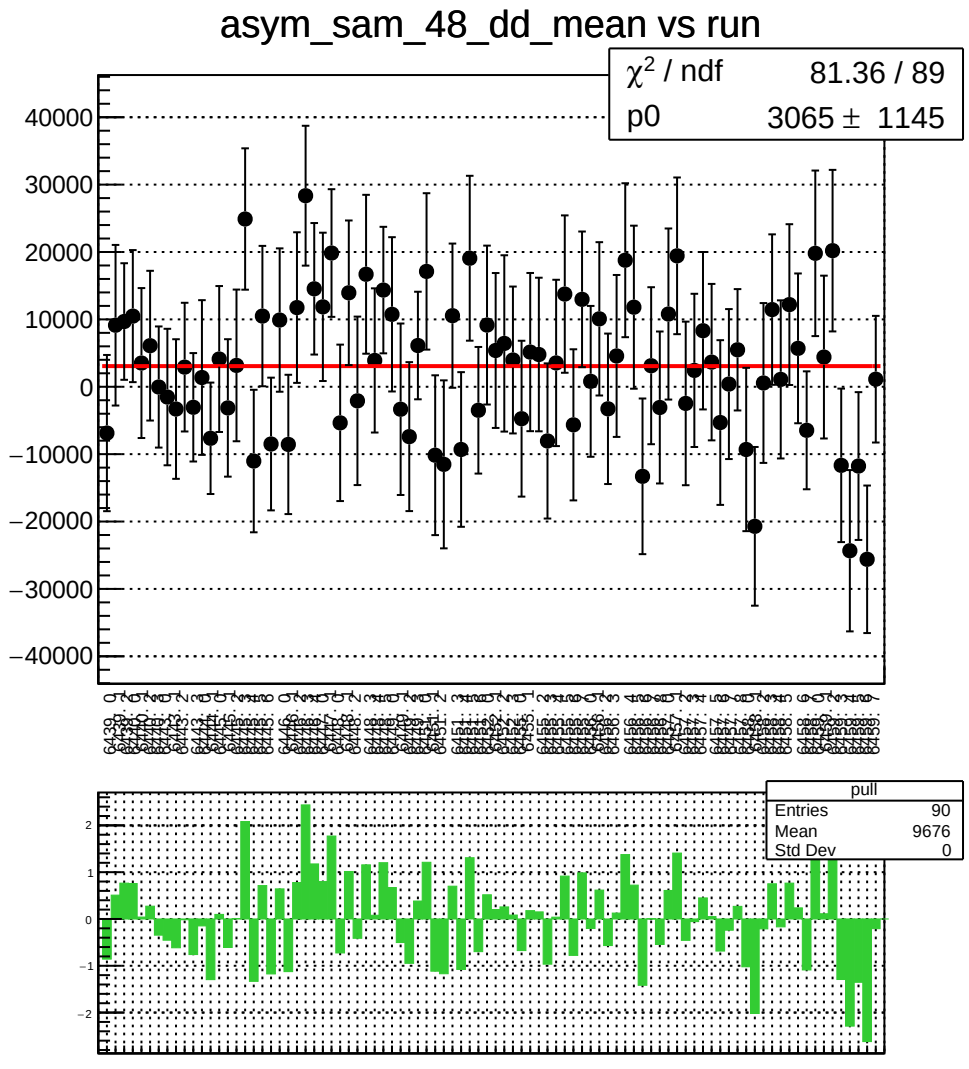

eigen_dit_asym_sam_48_dd_mean vs run
χ² / ndf 95.03 / 89
p0 228.4 ± 115.1
6000
4000
2000
0
−2000
−4000
pull
Entries 90
Mean −50.15
Std Dev 0
2
1
0
−1
−2

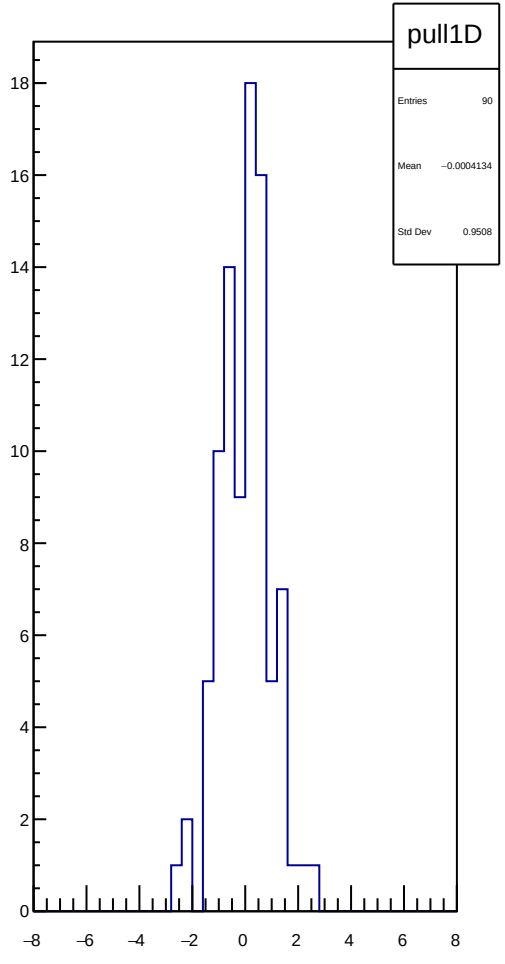

pull1D
Entries 90
Mean 0.01943
Std Dev 1.027
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

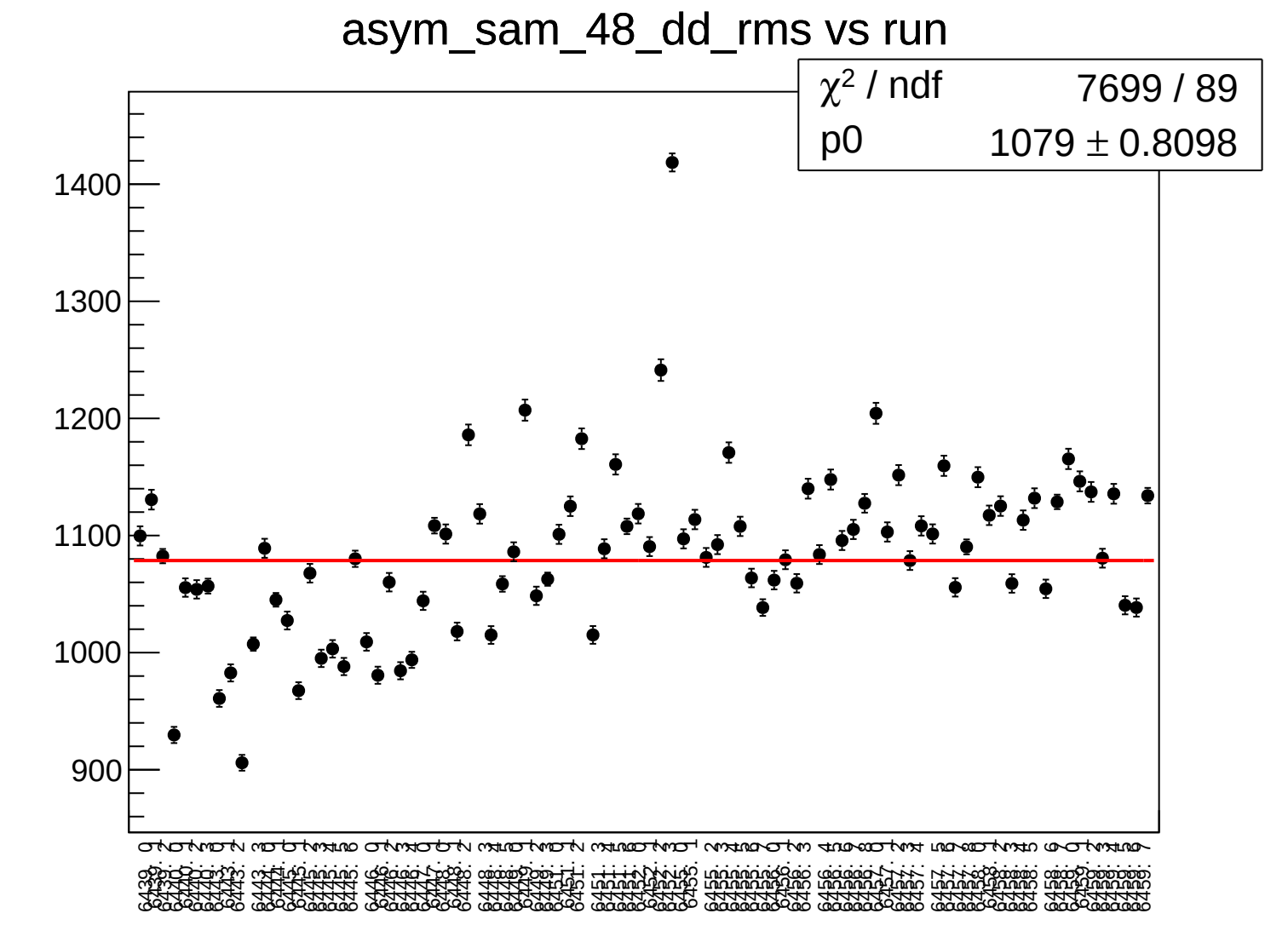

eigen_dit_asym_sam_48_dd_rms vs run
χ² / ndf 2.555e+04 / 89
p0 107.8 ± 0.08137
450
400
350
300
250
200
150
100

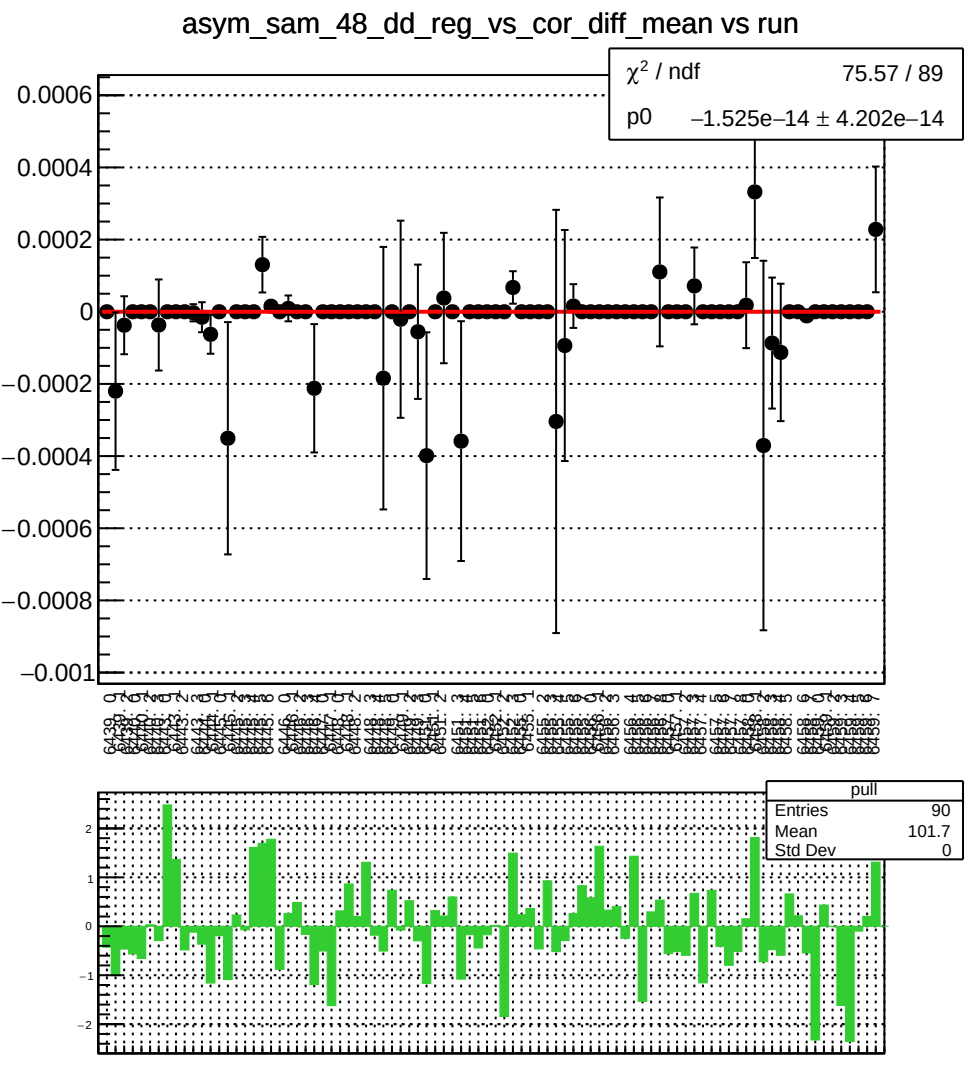

asym_sam_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 79.23 / 89
p0 −2817 ± 1140
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 90
Mean 2046
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 90
Mean 0.001895
Std Dev 0.9383
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

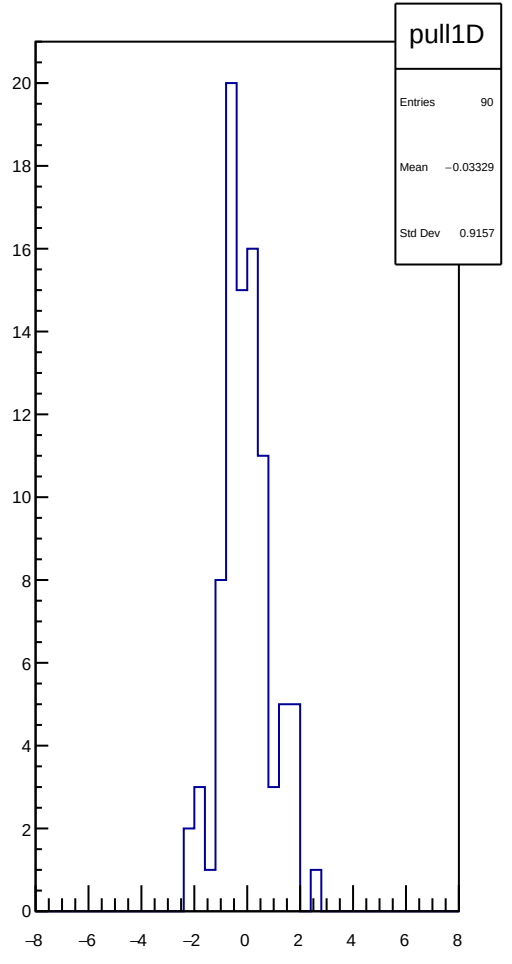

asym_sam_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 5559 / 89
p0 1074 ± 0.8062
1200
1150
1100
1050
1000
950
900

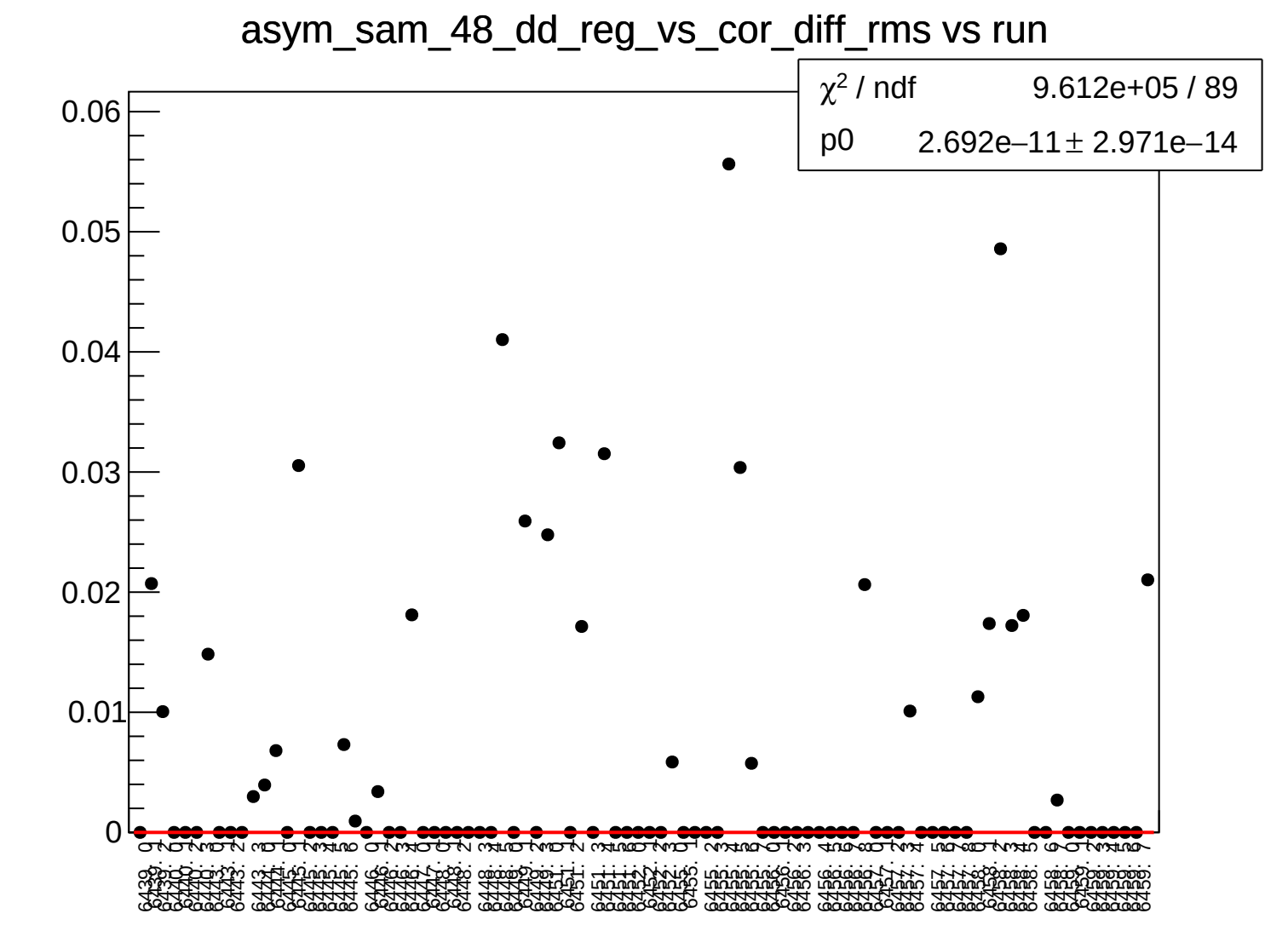

asym_sam_48_dd_mean vs run
χ² / ndf 81.36 / 89
p0 3065 ± 1145
pull
Entries 90
Mean 9676
Std Dev 0

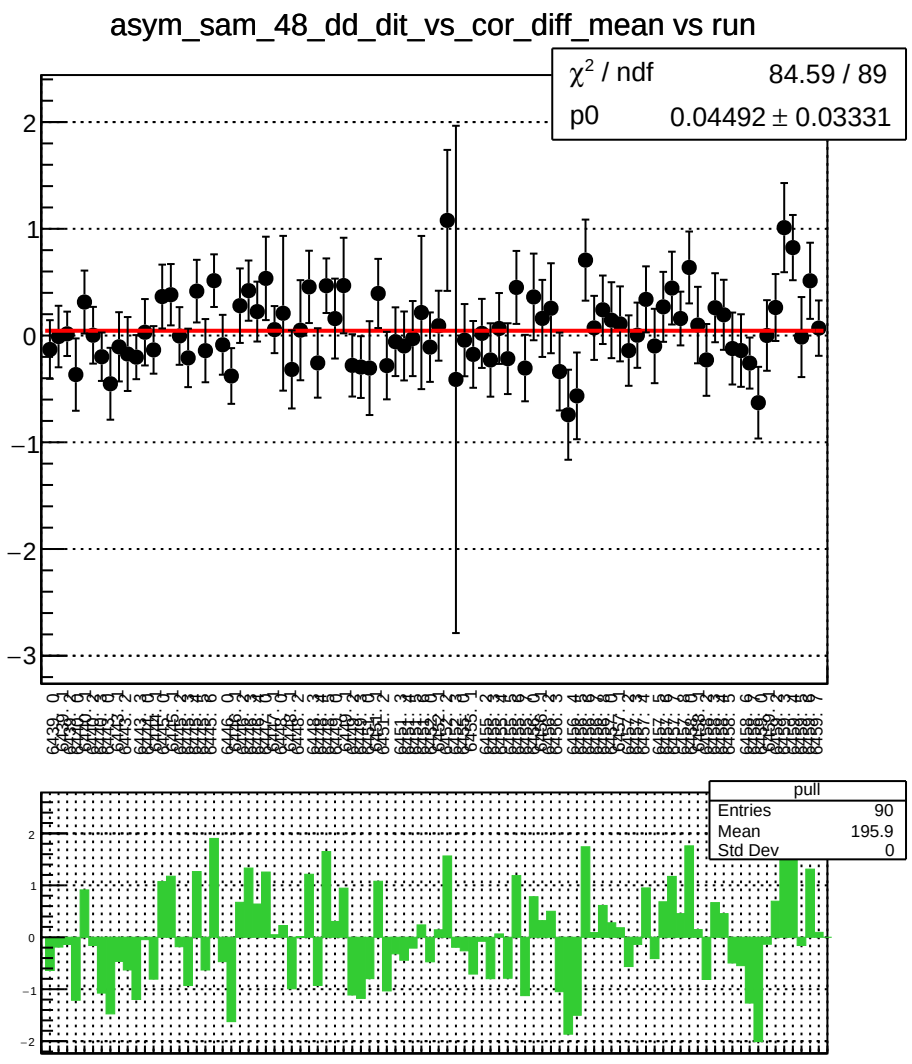

pull1D
Entries 90
Mean −0.0004134
Std Dev 0.9508

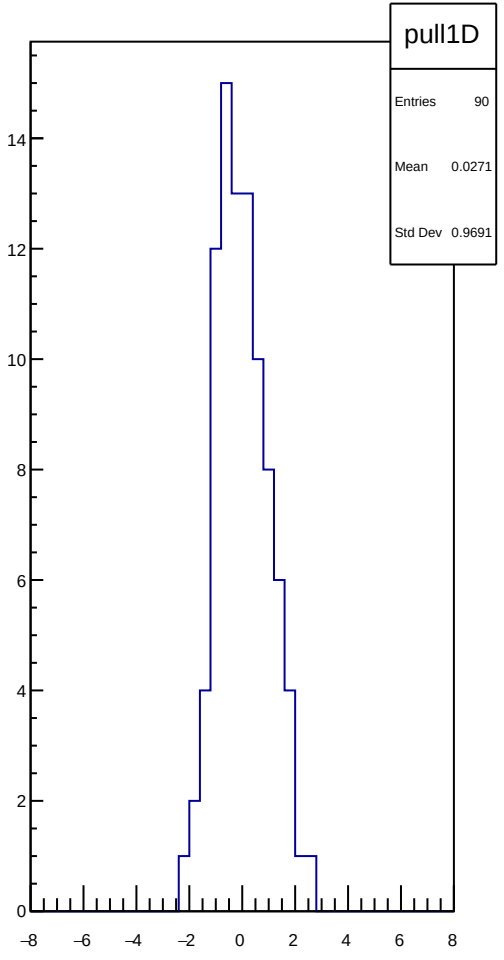

asym_sam_48_dd_rms vs run
χ² / ndf 7699 / 89
p0 1079 ± 0.8098
1400
1300
1200
1100
1000
900

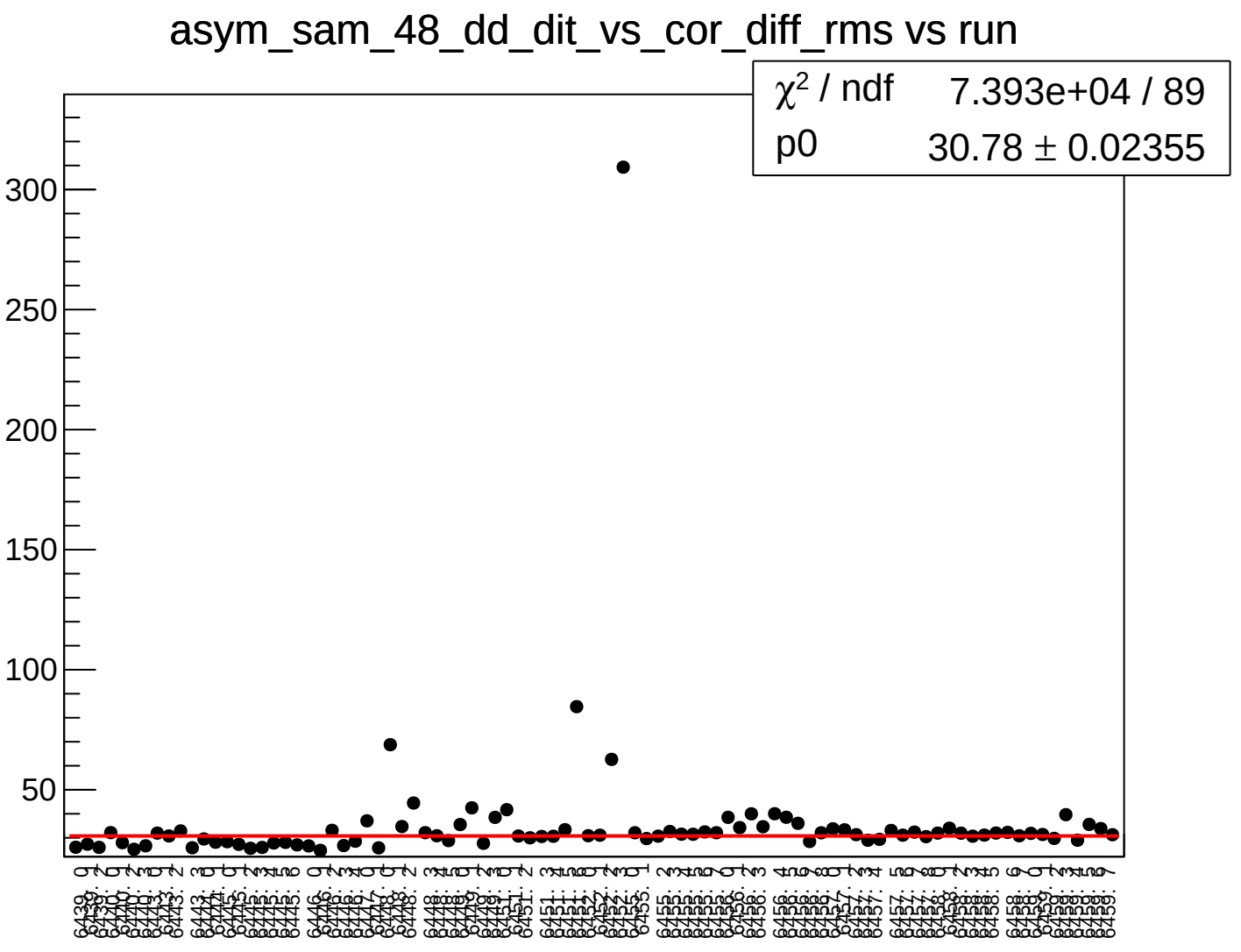

asym_sam_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 75.57 / 89
p0 −1.525e−14 ± 4.202e−14
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 90
Mean 101.7
Std Dev 0
2
1
0
−1
−2

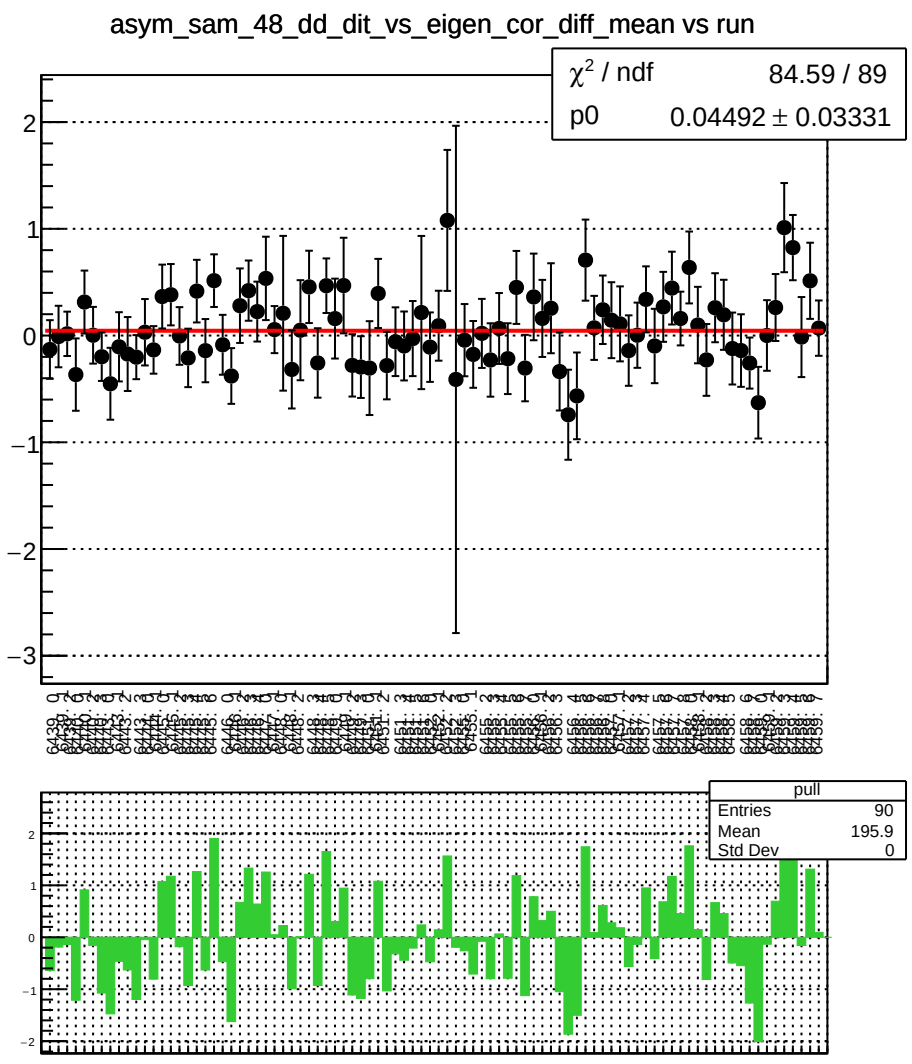

pull1D
Entries 90
Mean −0.03329
Std Dev 0.9157
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

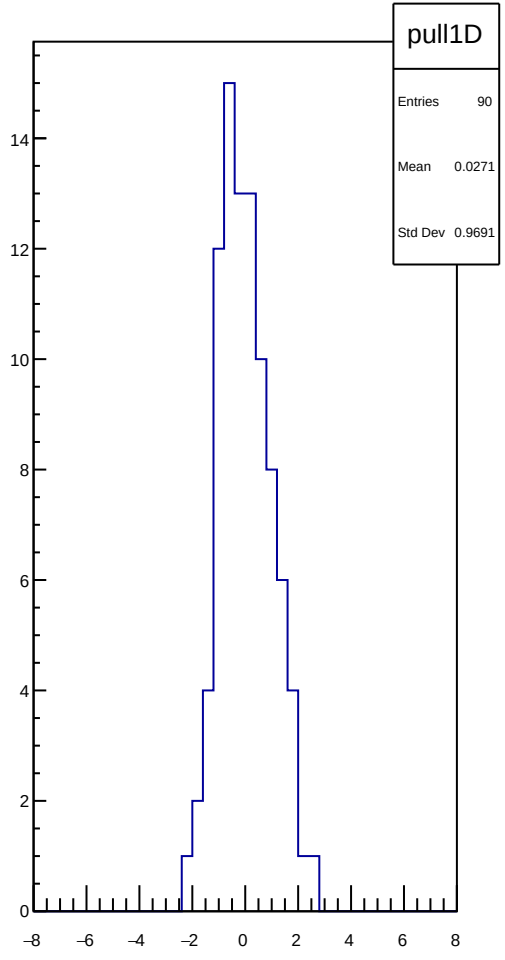

asym_sam_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.612e+05 / 89
p0 2.692e−11 ± 2.971e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

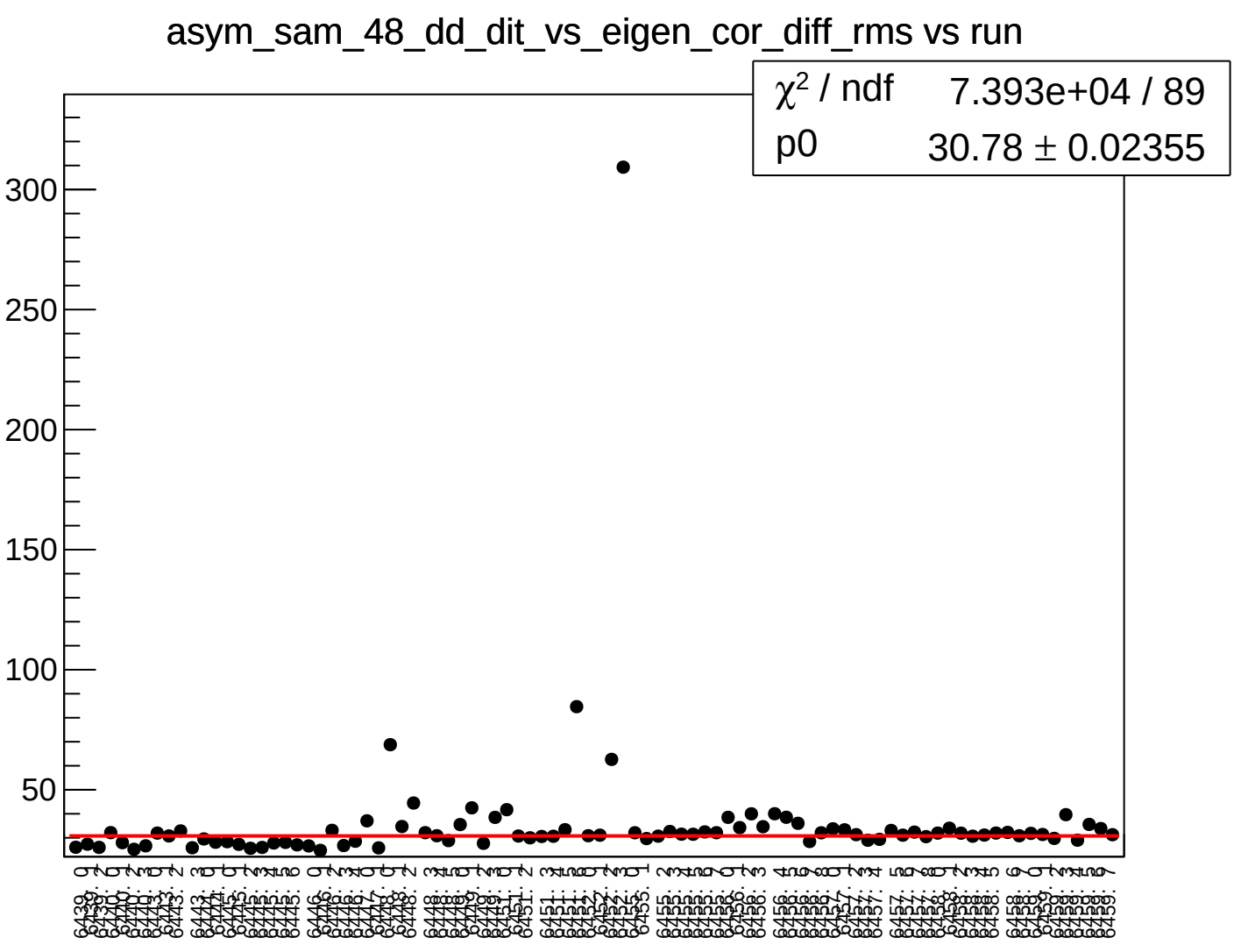

asym_sam_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 84.59 / 89
p0 0.04492 ± 0.03331
pull
Entries 90
Mean 195.9
Std Dev 0

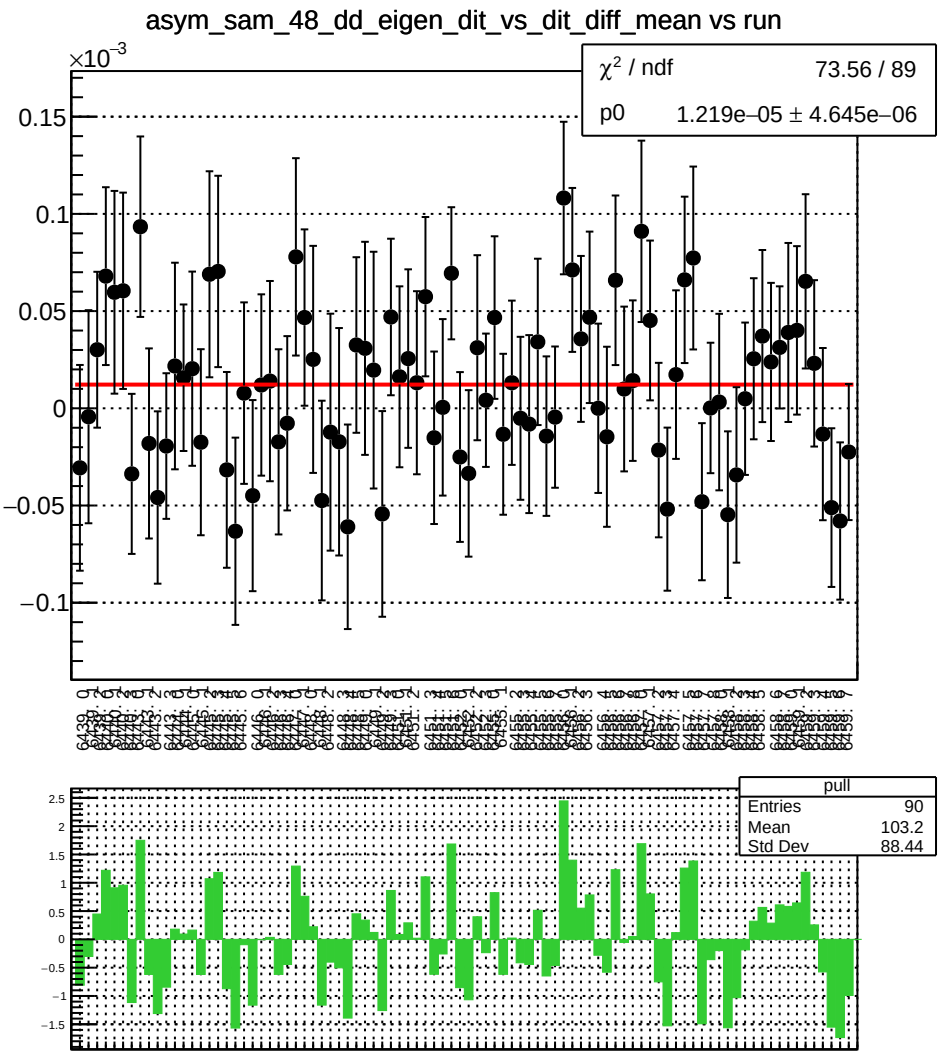

pull1D
Entries 90
Mean 0.0271
Std Dev 0.9691

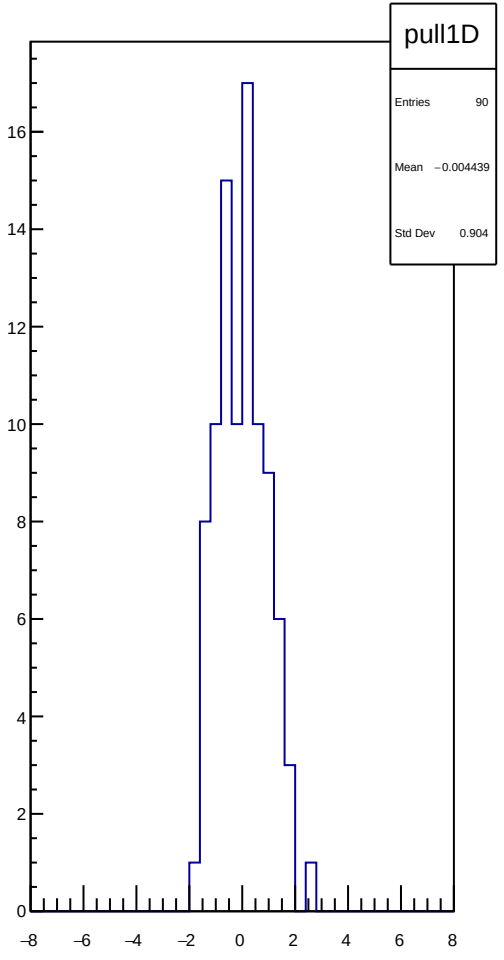

asym_sam_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7.393e+04 / 89
p0 30.78 ± 0.02355
300
250
200
150
100
50

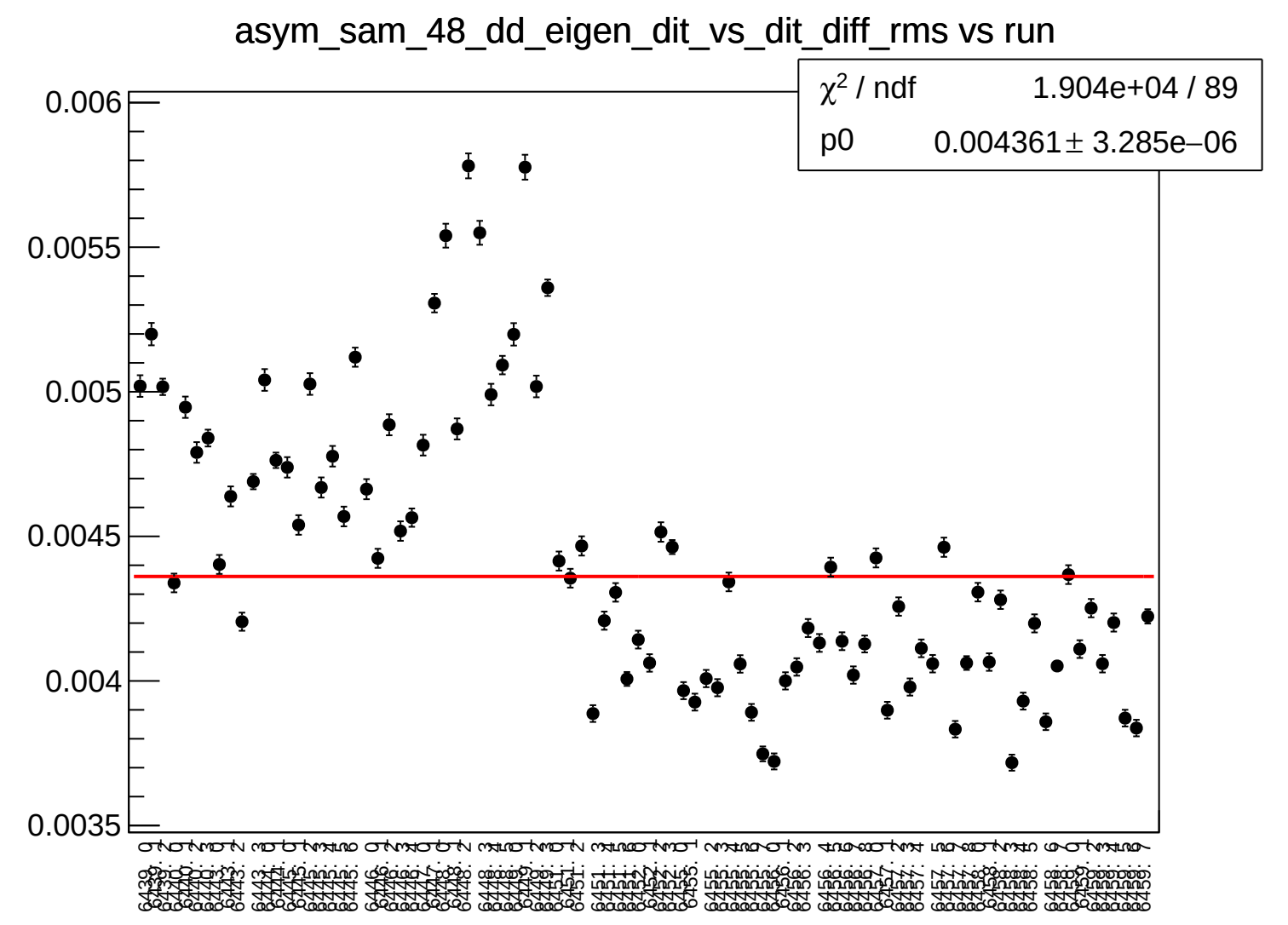

asym_sam_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.59 / 89
p0 0.04492 ± 0.03331
pull
Entries 90
Mean 195.9
Std Dev 0

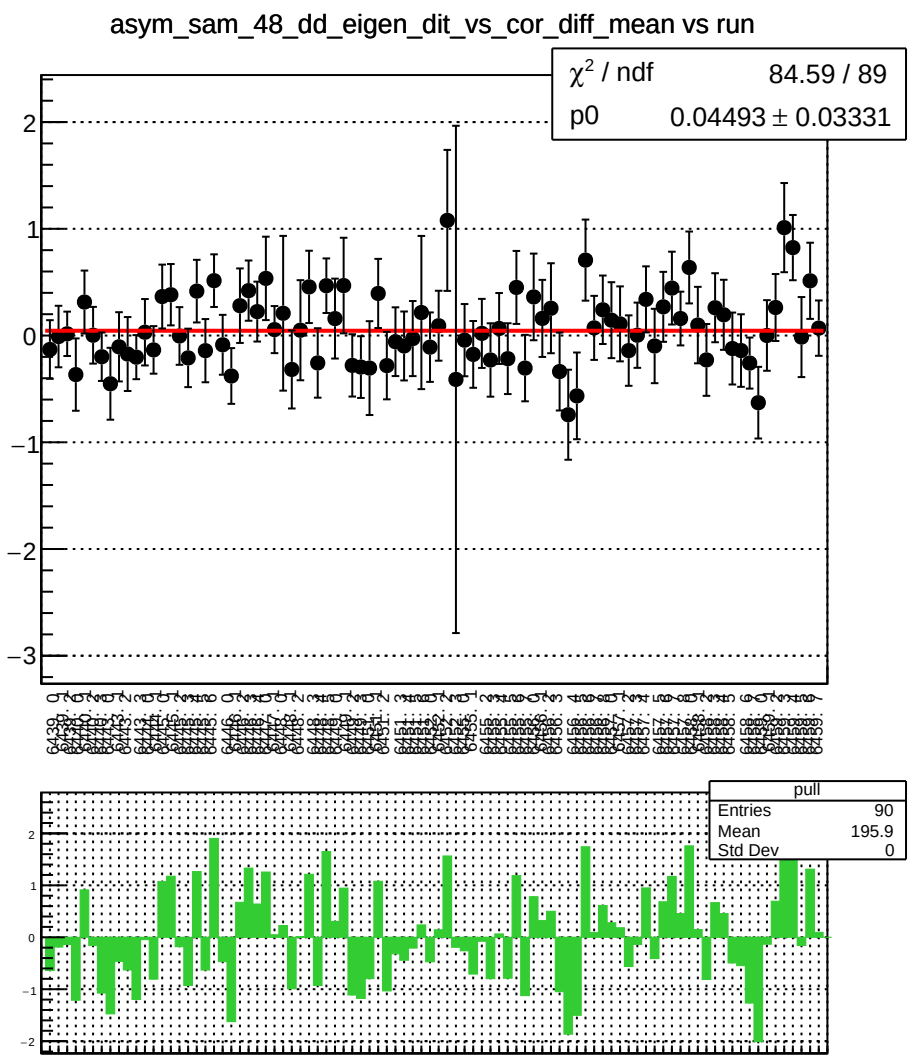

pull1D
Entries 90
Mean 0.0271
Std Dev 0.9691

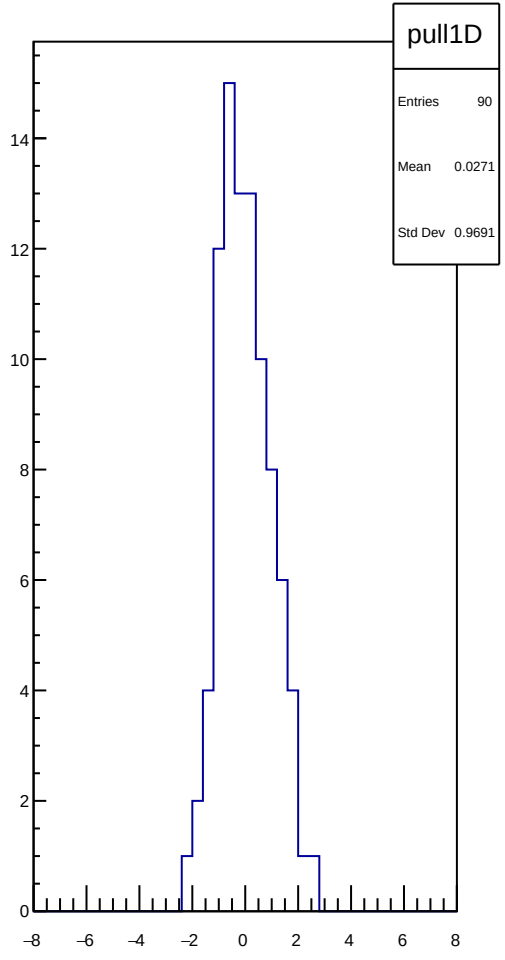

asym_sam_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.393e+04 / 89
p0 30.78 ± 0.02355
300
250
200
150
100
50

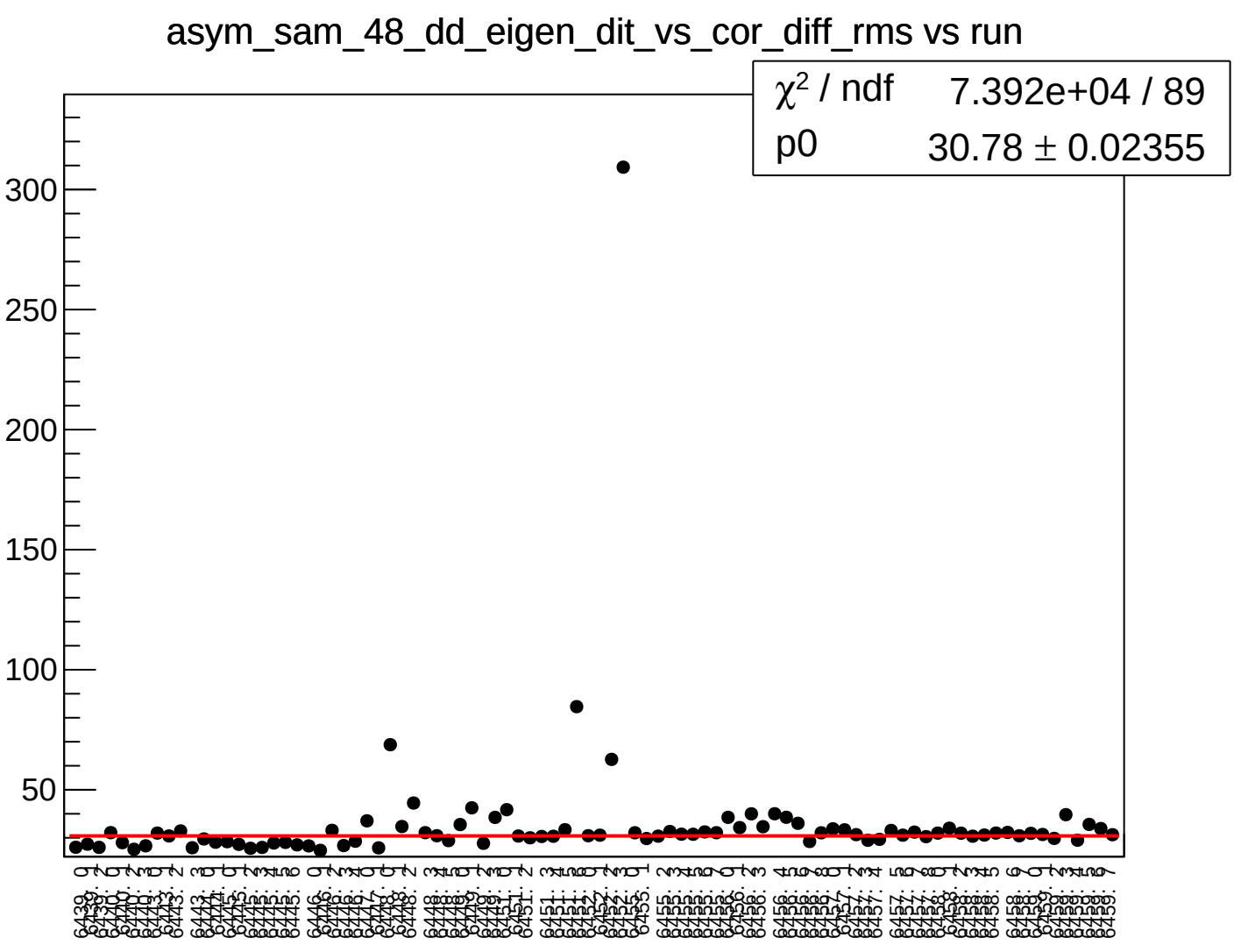

asym_sam_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.56 / 89
p0 1.219e−05 ± 4.645e−06
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 90
Mean 103.2
Std Dev 88.44
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

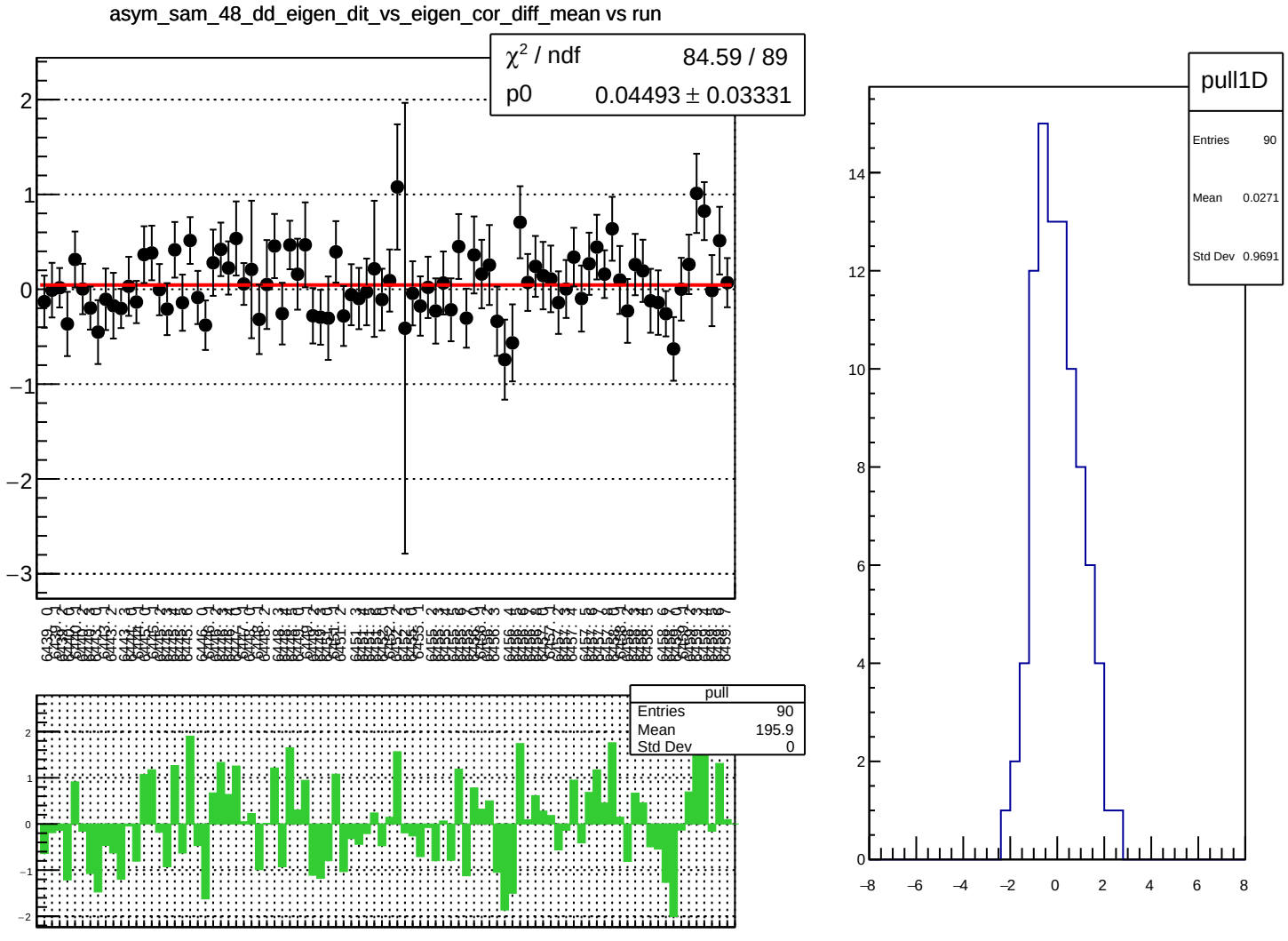

pull1D
Entries 90
Mean −0.004439
Std Dev 0.904
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

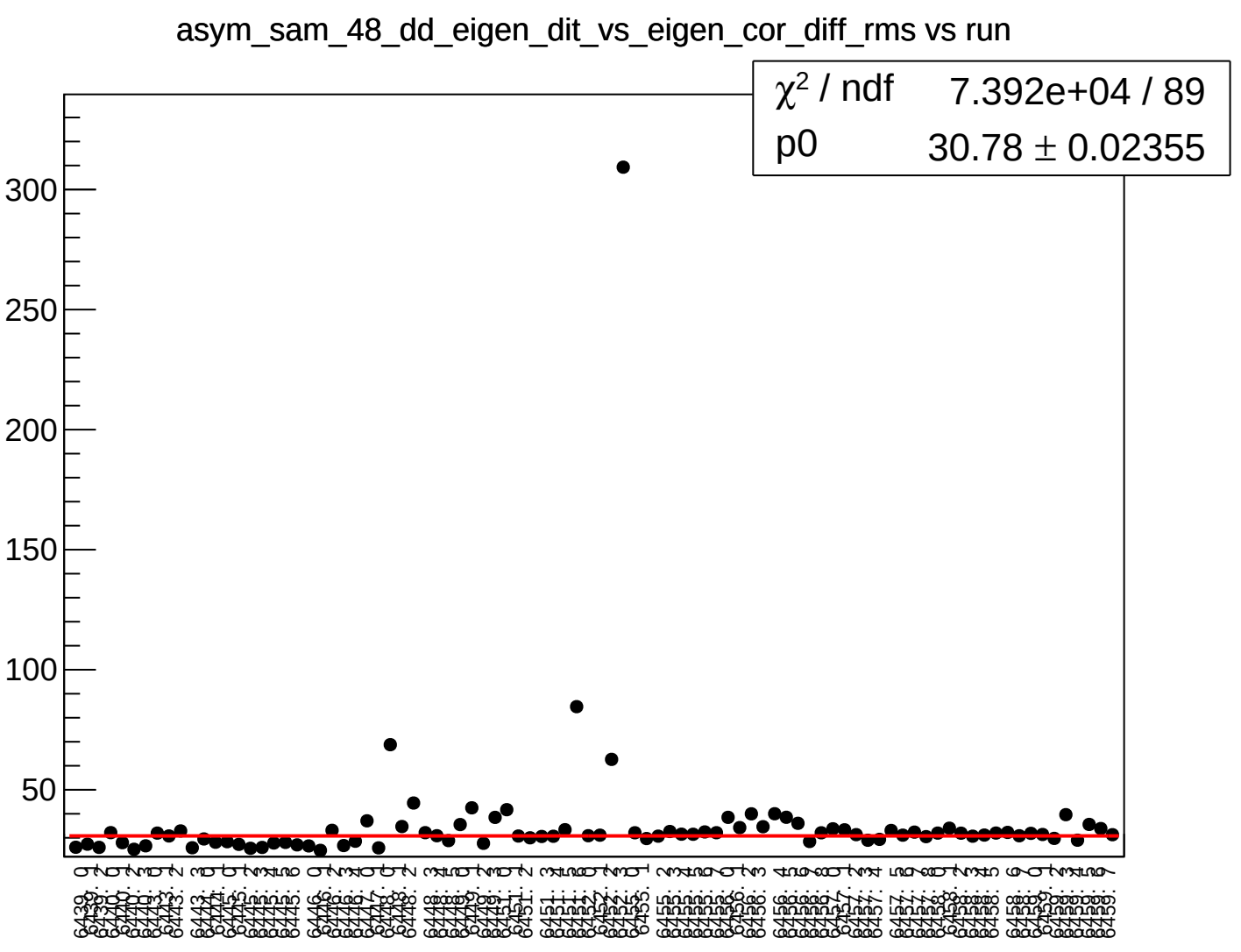

asym_sam_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.904e+04 / 89
p0 0.004361 ± 3.285e−06
0.006
0.0055
0.005
0.0045
0.004
0.0035

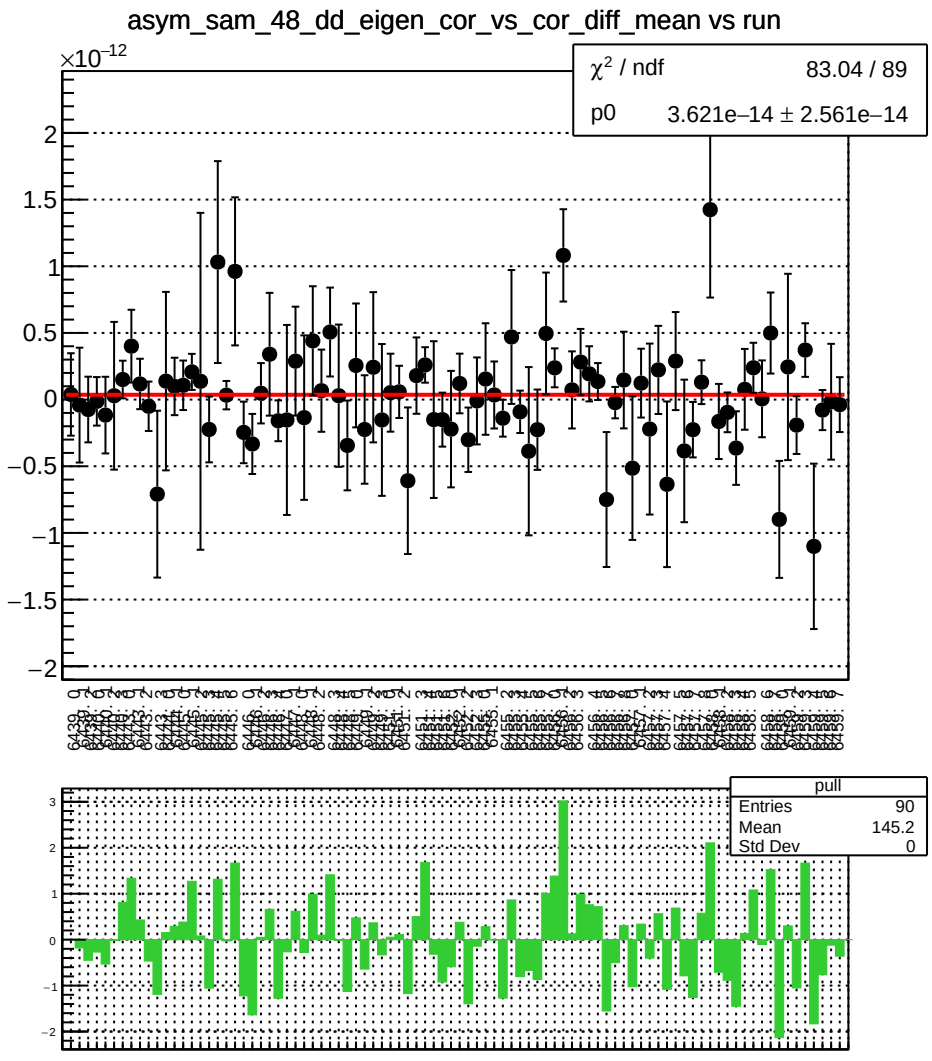

asym_sam_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.59 / 89
p0 0.04493 ± 0.03331
pull
Entries 90
Mean 195.9
Std Dev 0

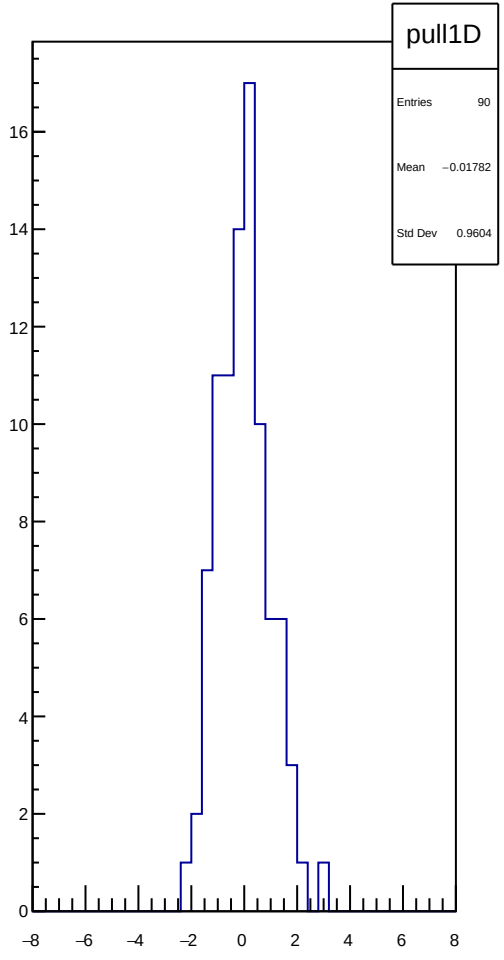

pull1D
Entries 90
Mean 0.0271
Std Dev 0.9691

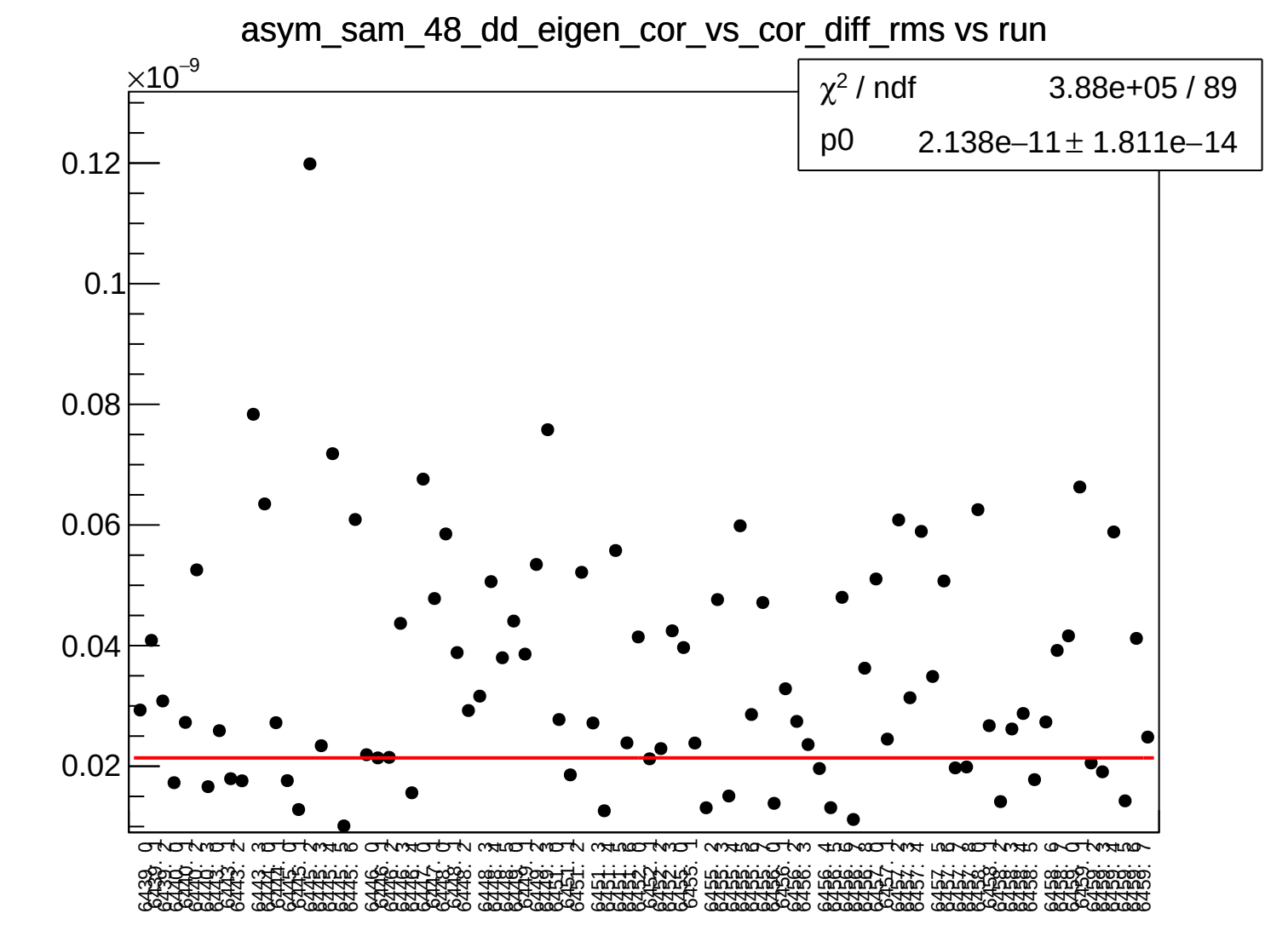

asym_sam_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.392e+04 / 89
p0 30.78 ± 0.02355
300
250
200
150
100
50

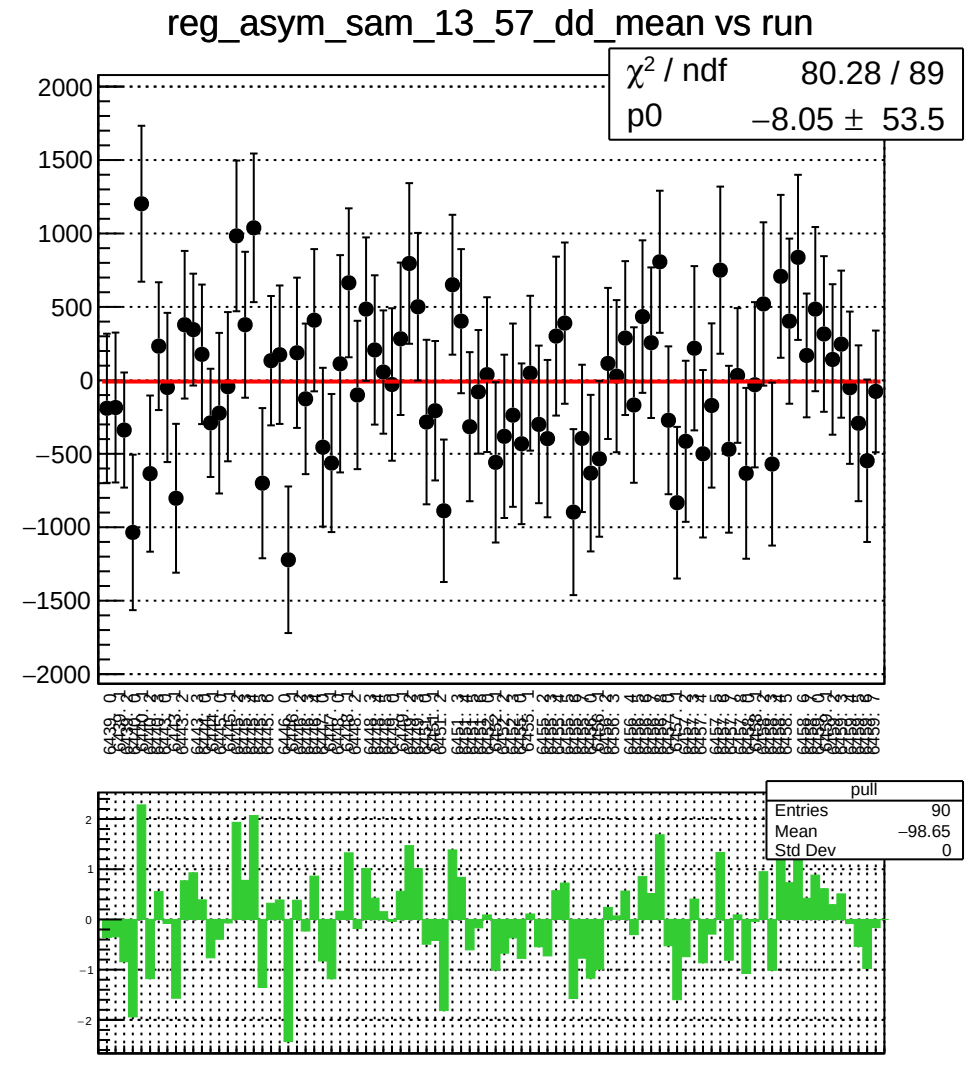

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.59 / 89
p0 0.04493 ± 0.03331
pull
Entries 90
Mean 195.9
Std Dev 0
pull1D
Entries 90
Mean 0.0271
Std Dev 0.9691

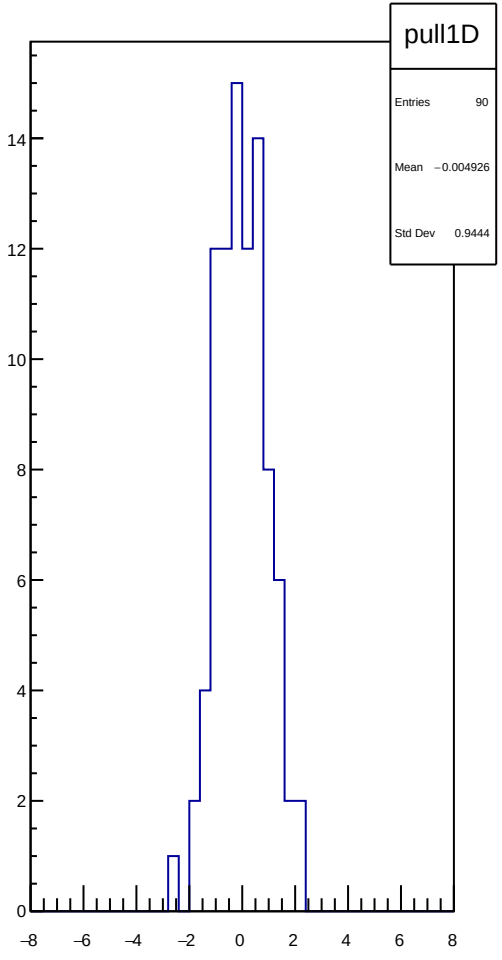

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.392e+04 / 89
p0 30.78 ± 0.02355
300
250
200
150
100
50


asym_sam_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.04 / 89
p0 3.621e−14 ± 2.561e−14
pull
Entries 90
Mean 145.2
Std Dev 0

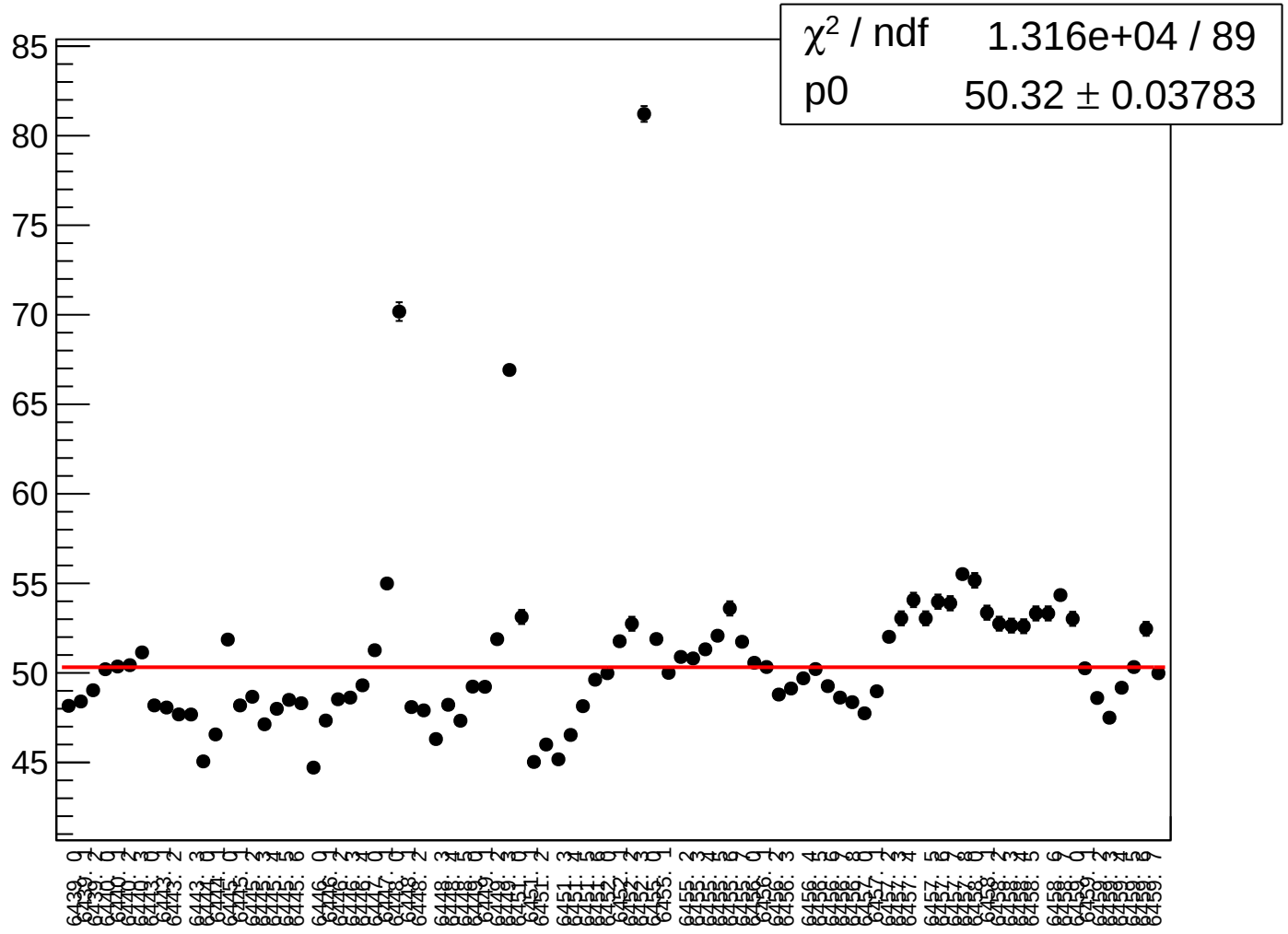

pull1D
Entries 90
Mean −0.01782
Std Dev 0.9604

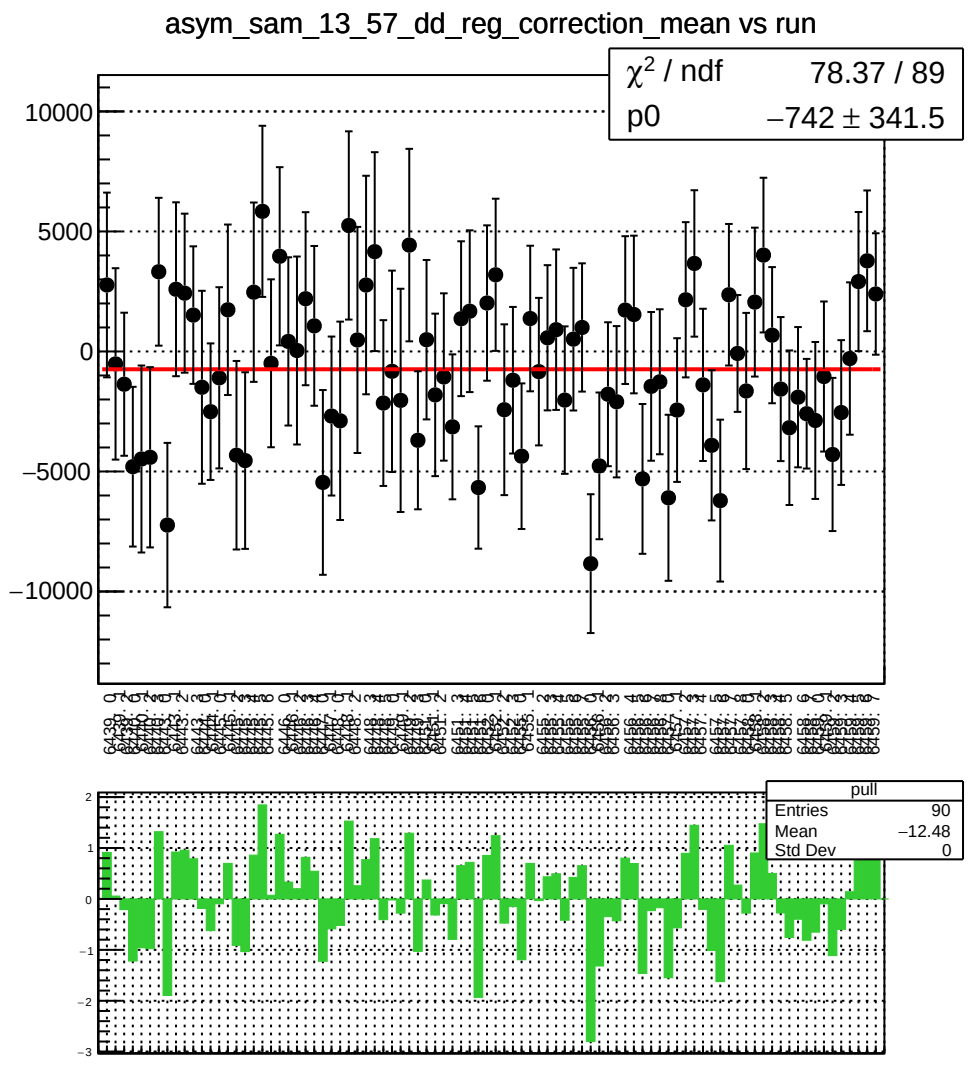

asym_sam_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.88e+05 / 89
p0 2.138e−11 ± 1.811e−14
0.12
0.1
0.08
0.06
0.04
0.02

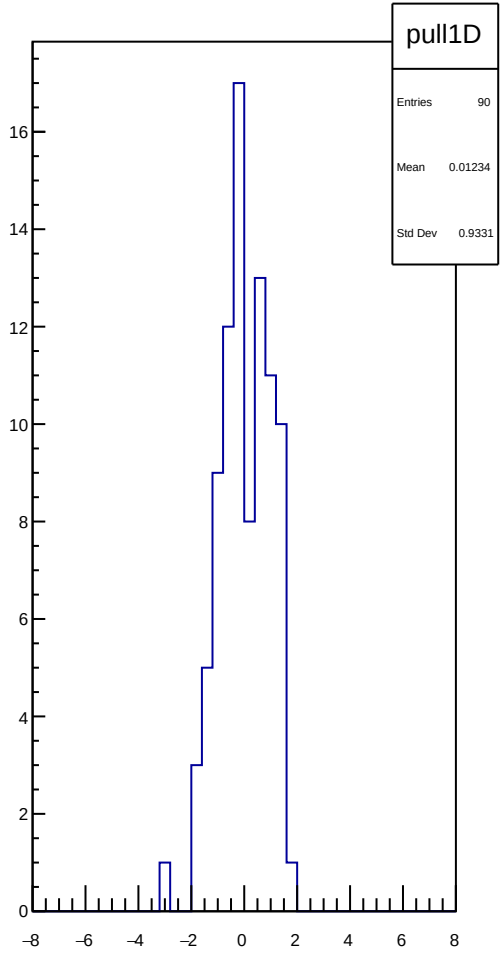

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 80.28 / 89
p0 −8.05 ± 53.5
pull
Entries 90
Mean −98.65
Std Dev 0

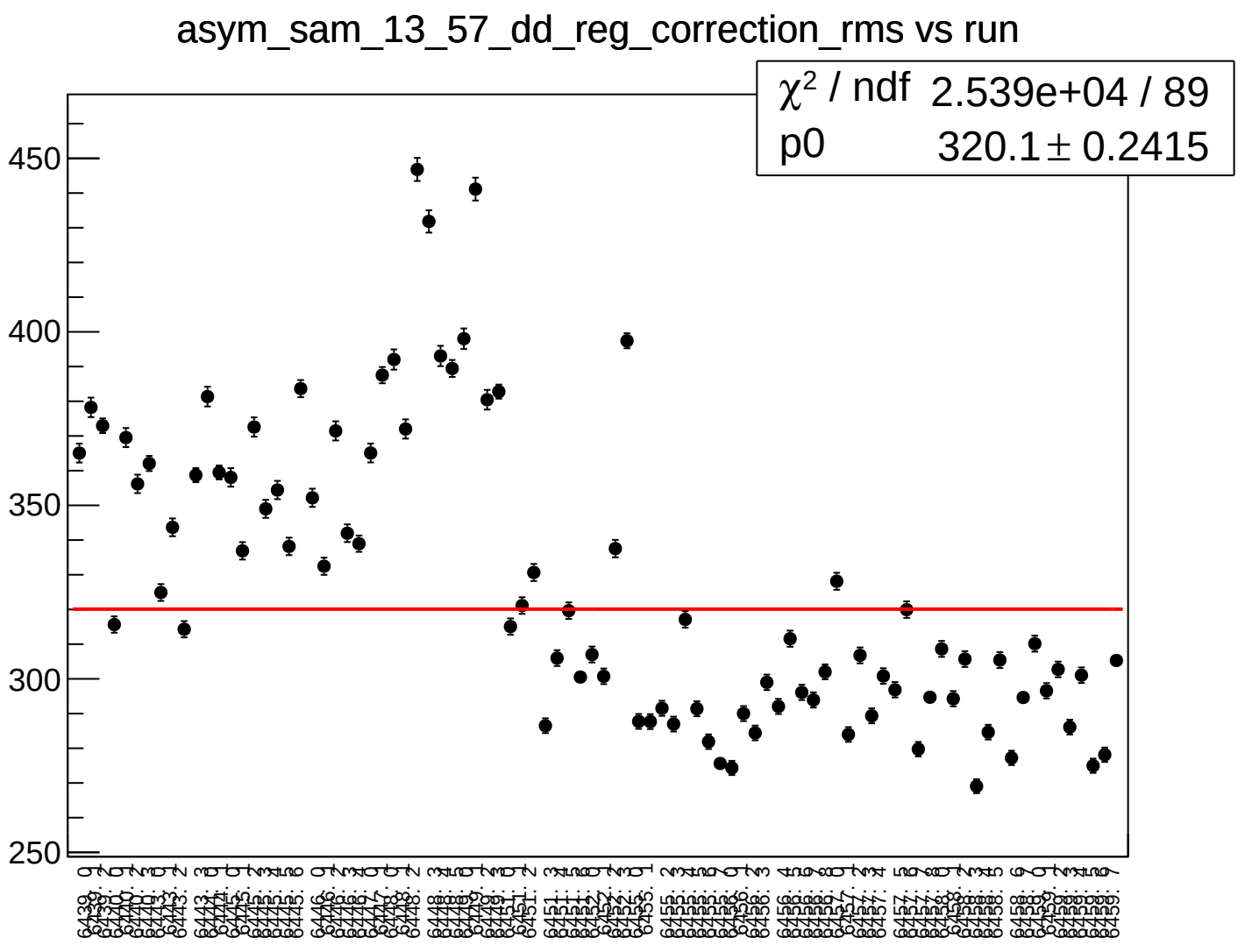

pull1D
Entries 90
Mean −0.004926
Std Dev 0.9444

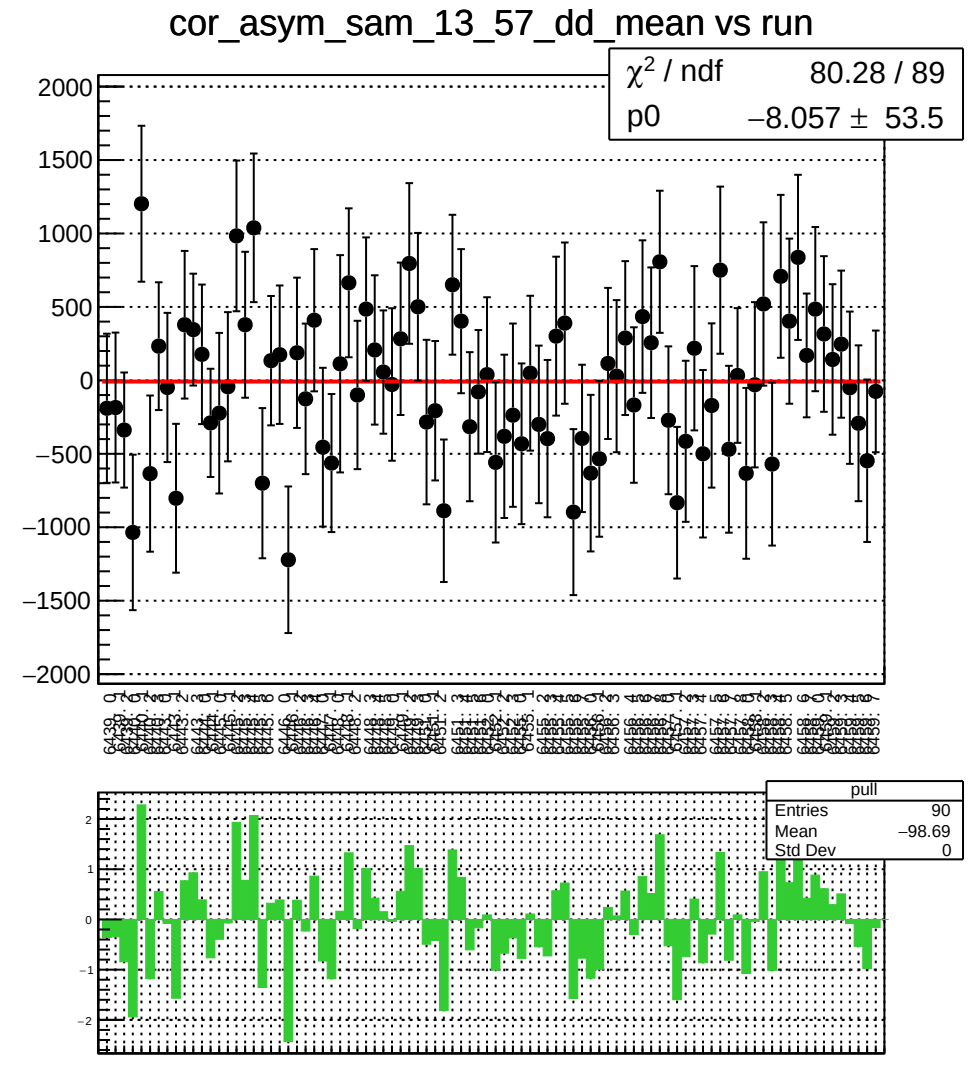
reg_asym_sam_13_57_dd_rms vs run

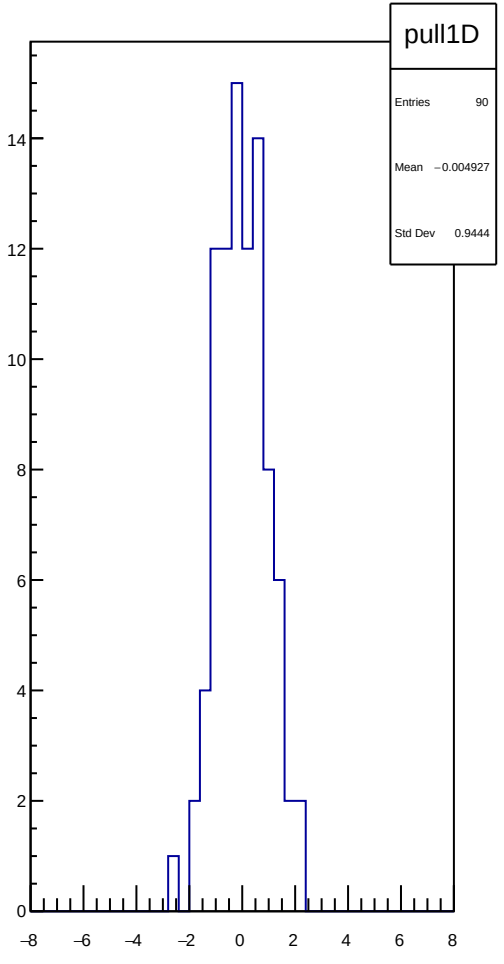


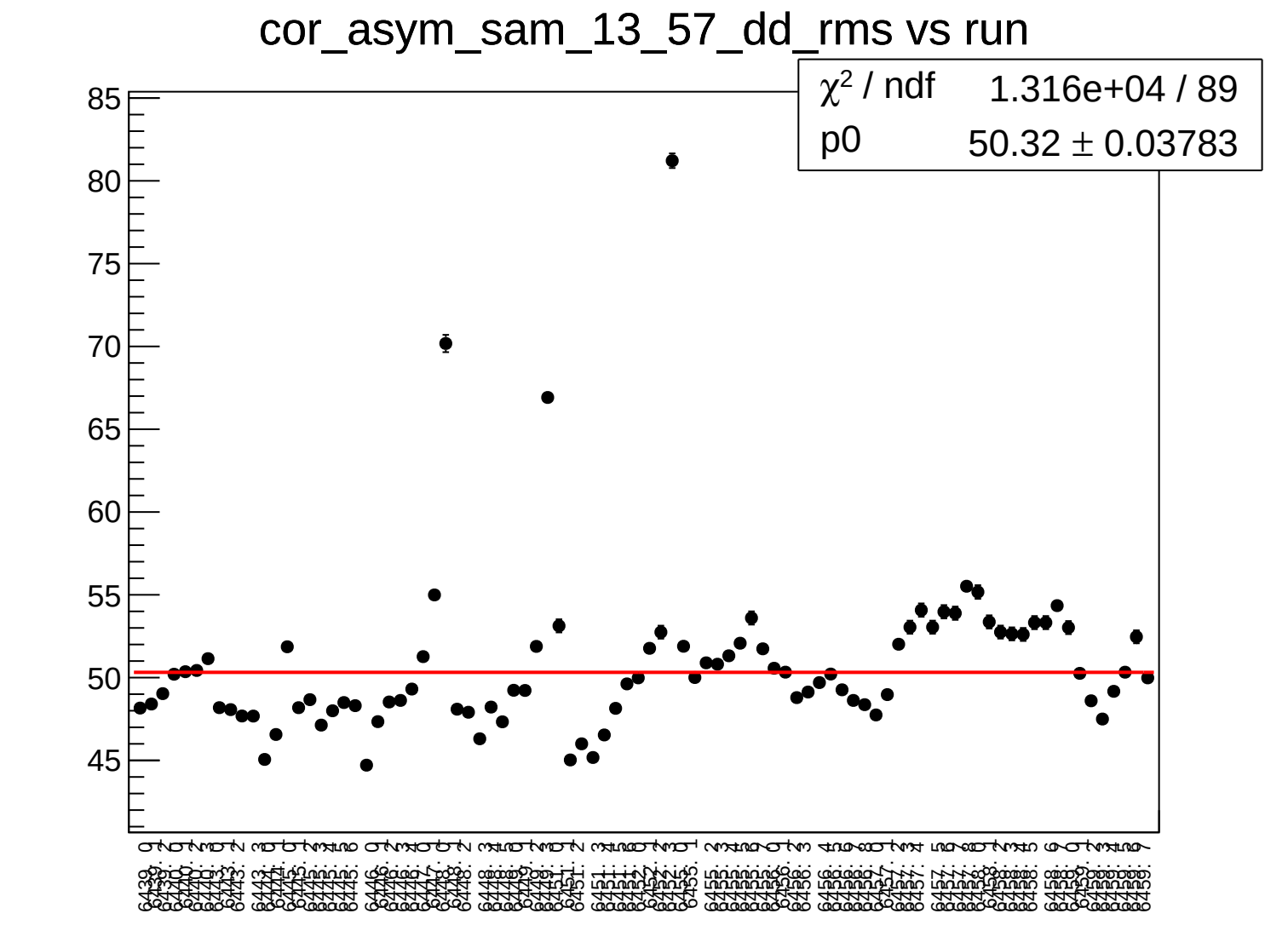

asym_sam_13_57_dd_reg_correction_mean vs run
χ² / ndf 78.37 / 89
p0 −742 ± 341.5
10000
5000
0
−5000
−10000
pull
Entries 90
Mean −12.48
Std Dev 0
2
1
0
−1
−2
−3

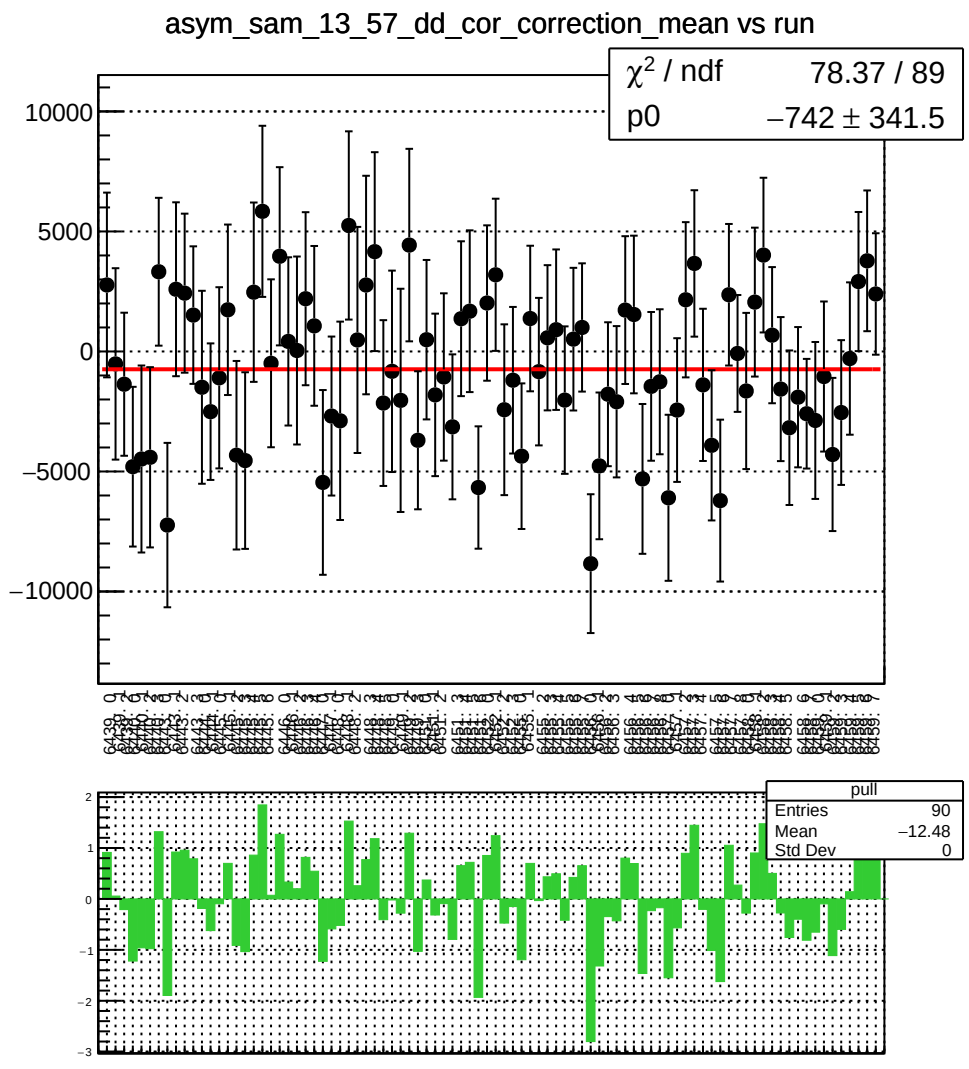

pull1D
Entries 90
Mean 0.01234
Std Dev 0.9331
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

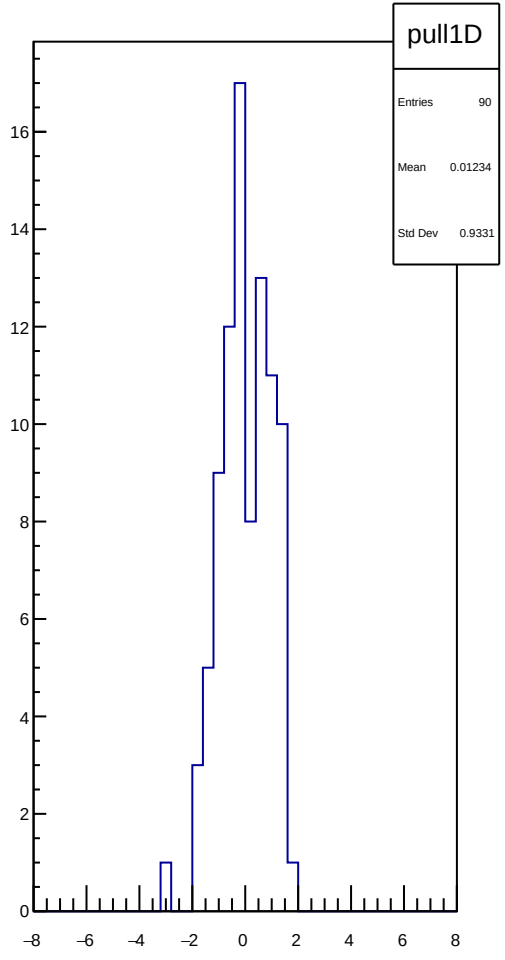

asym_sam_13_57_dd_reg_correction_rms vs run
χ² / ndf 2.539e+04 / 89
p0 320.1 ± 0.2415
450
400
350
300
250

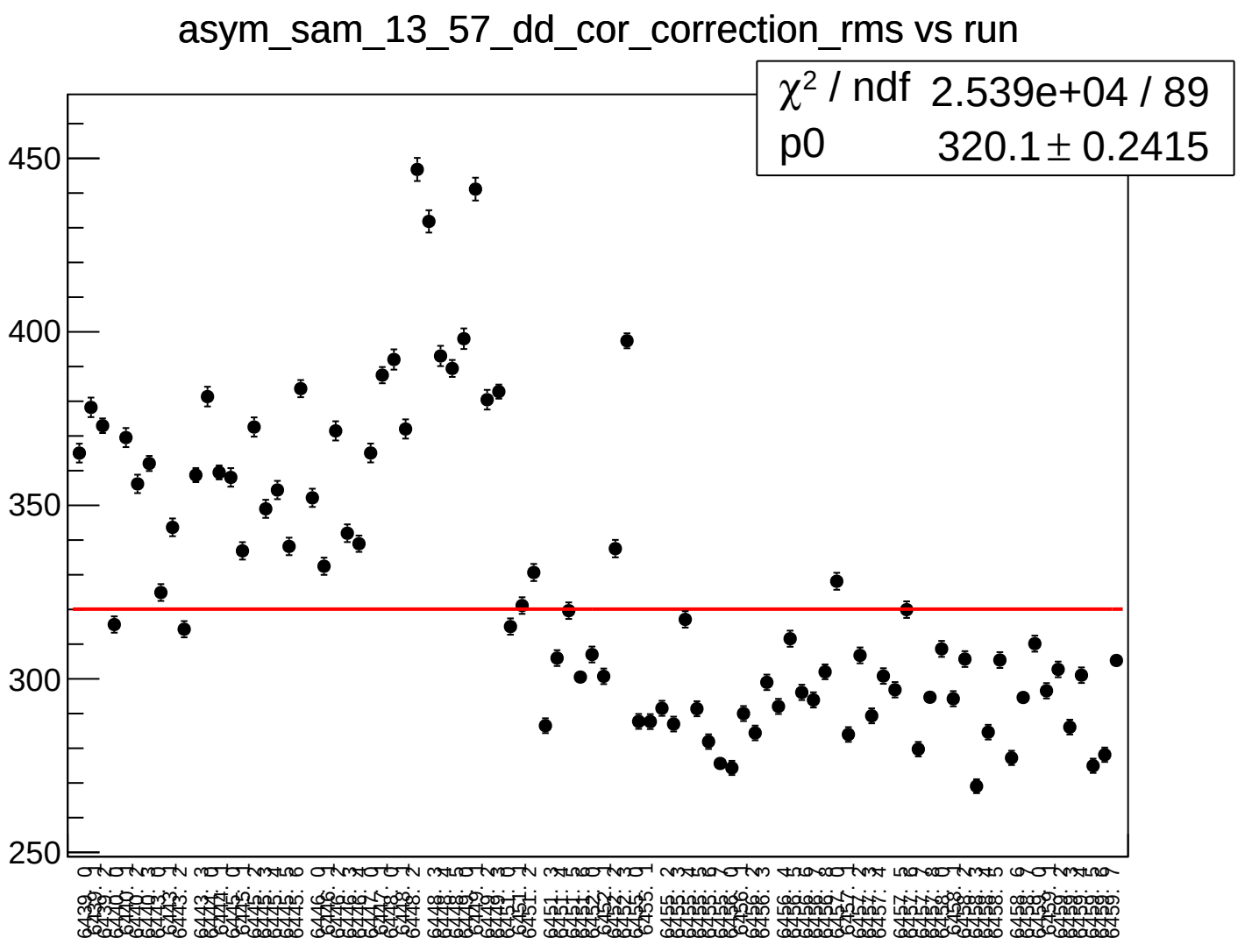

cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 80.28 / 89
p0 −8.057 ± 53.5
pull
Entries 90
Mean −98.69
Std Dev 0

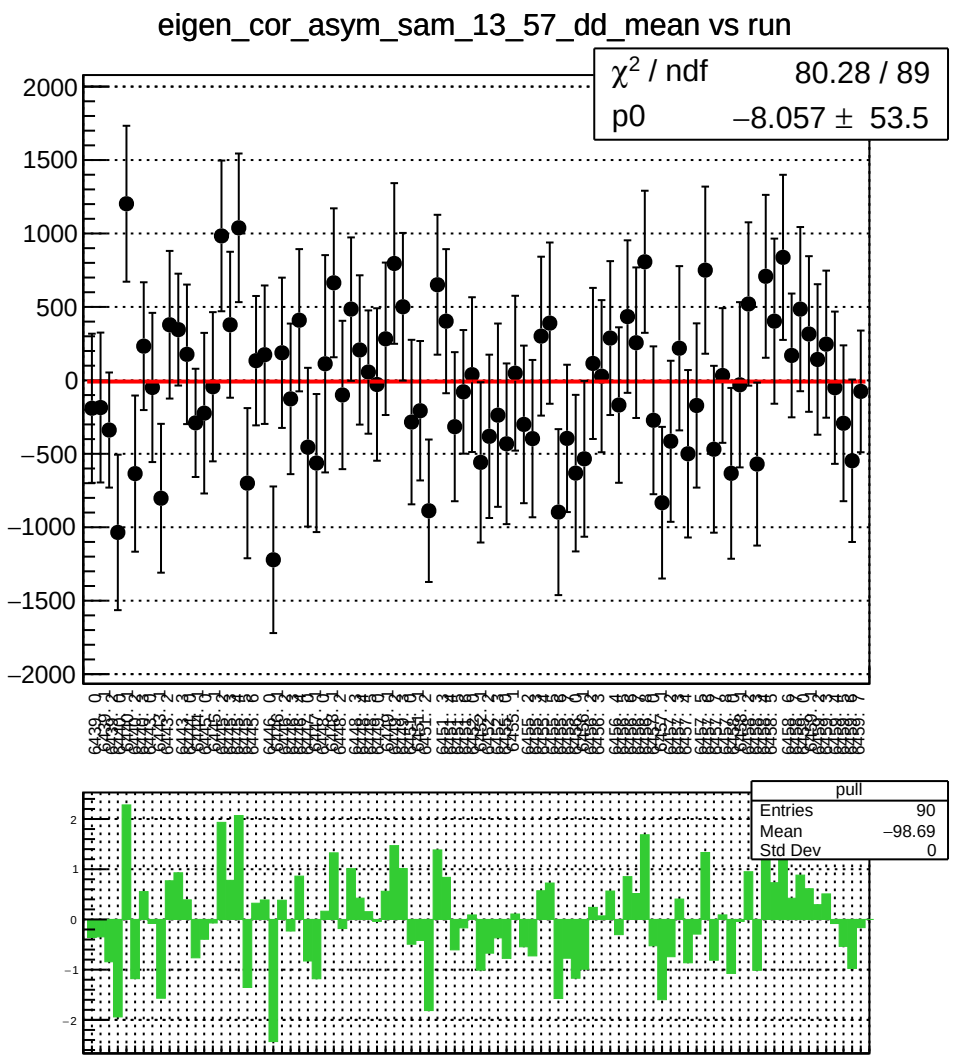

pull1D
Entries 90
Mean −0.004927
Std Dev 0.9444

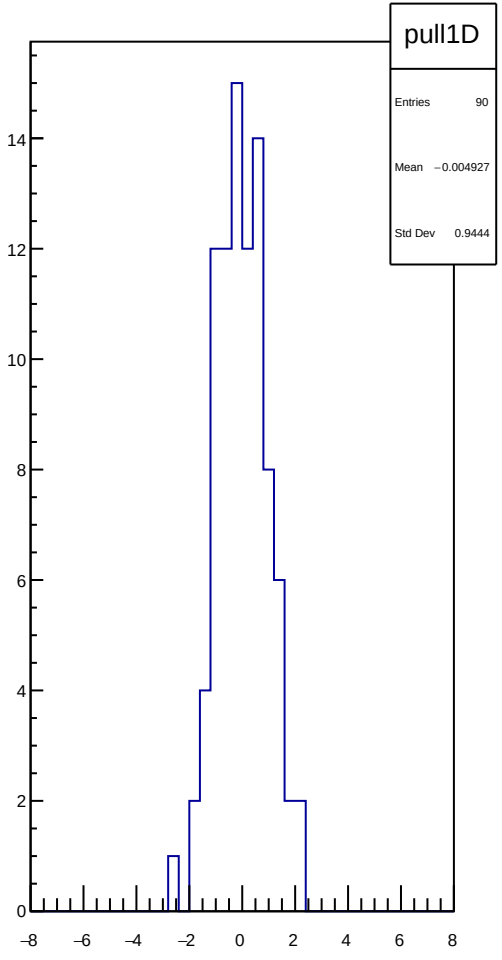

cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 1.316e+04 / 89
p0 50.32 ± 0.03783
85
80
75
70
65
60
55
50
45

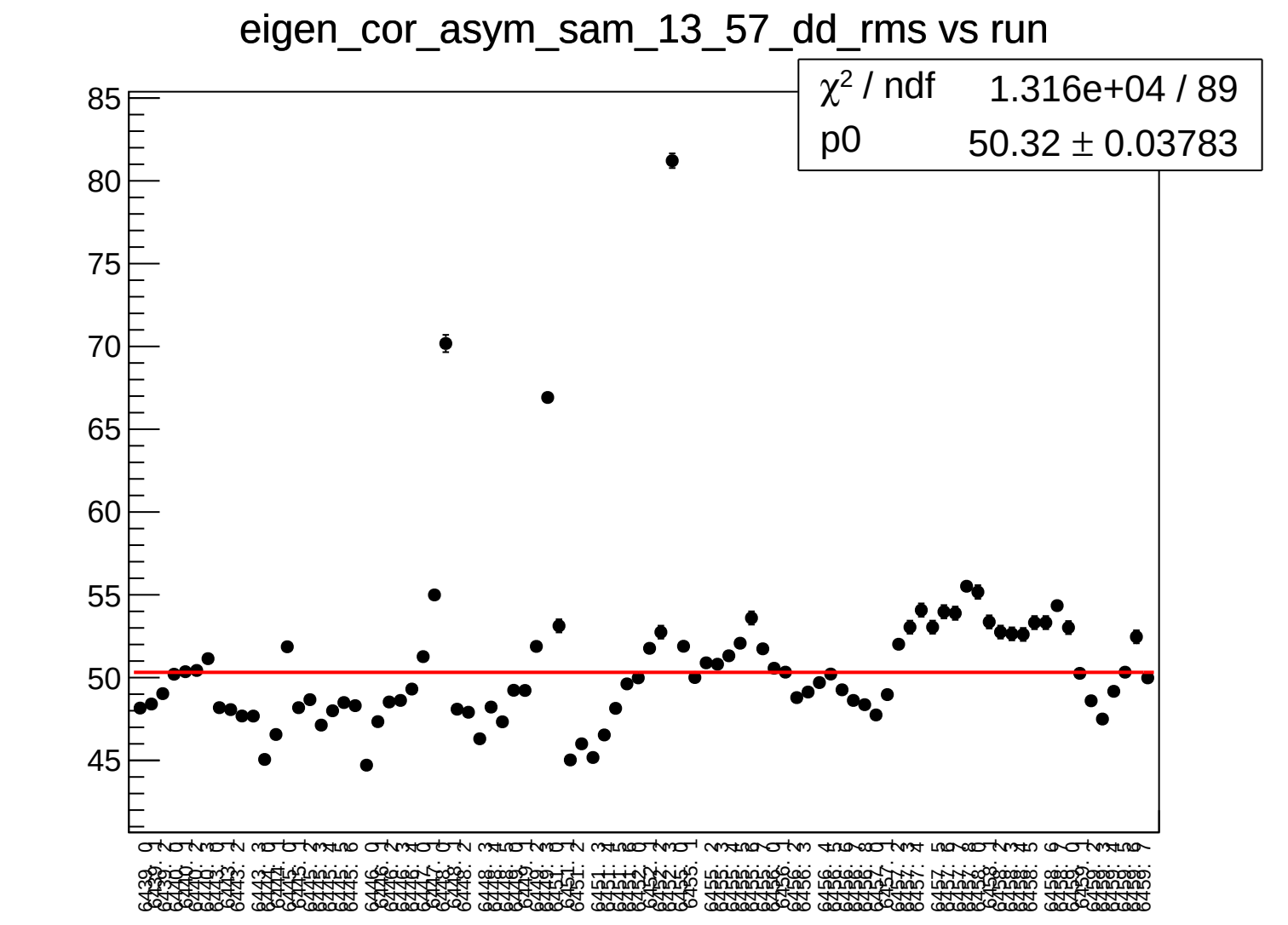

asym_sam_13_57_dd_cor_correction_mean vs run
χ² / ndf 78.37 / 89
p0 −742 ± 341.5
10000
5000
0
−5000
−10000
pull
Entries 90
Mean −12.48
Std Dev 0
2
1
0
−1
−2
−3

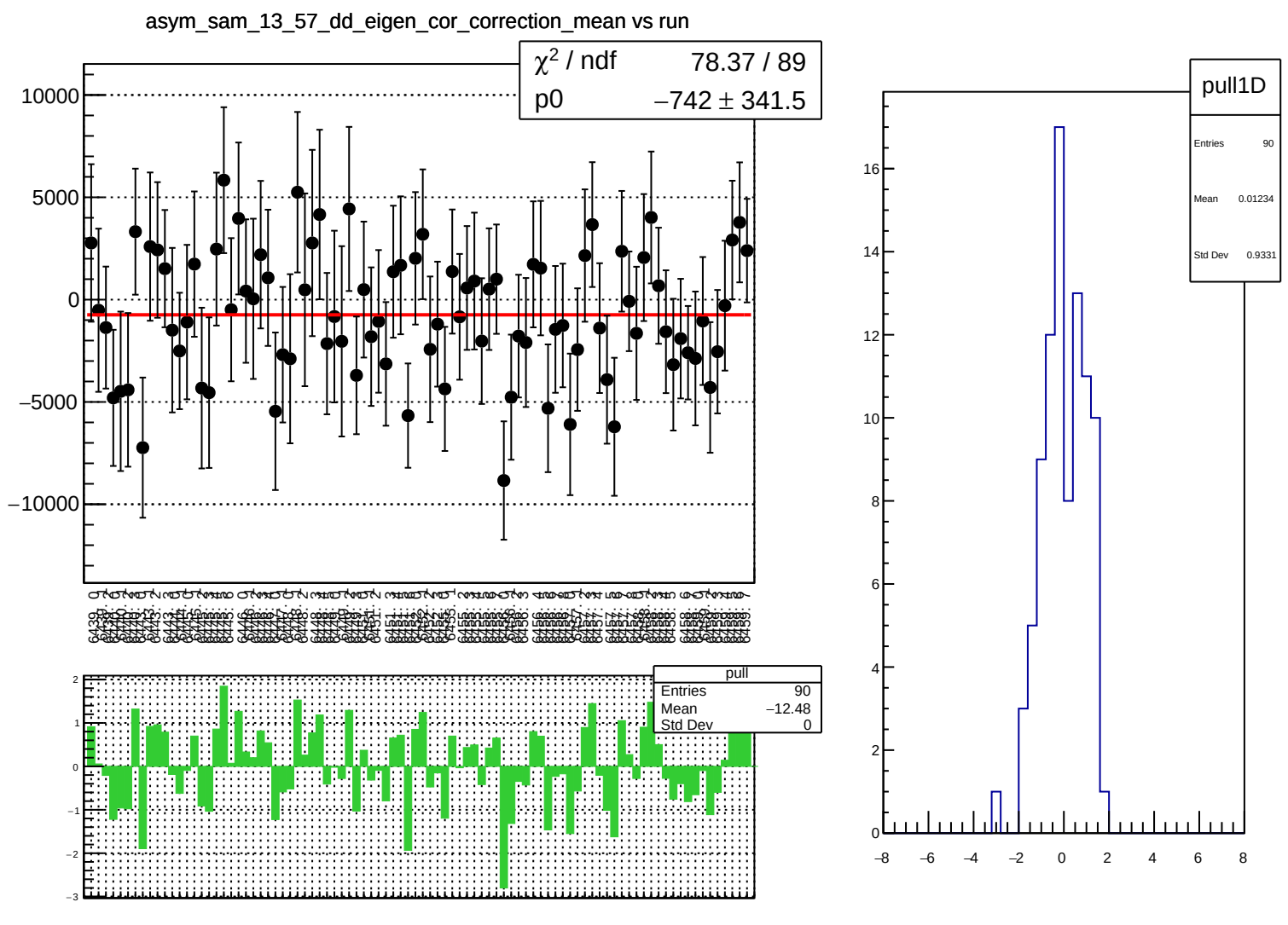

pull1D
Entries 90
Mean 0.01234
Std Dev 0.9331
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

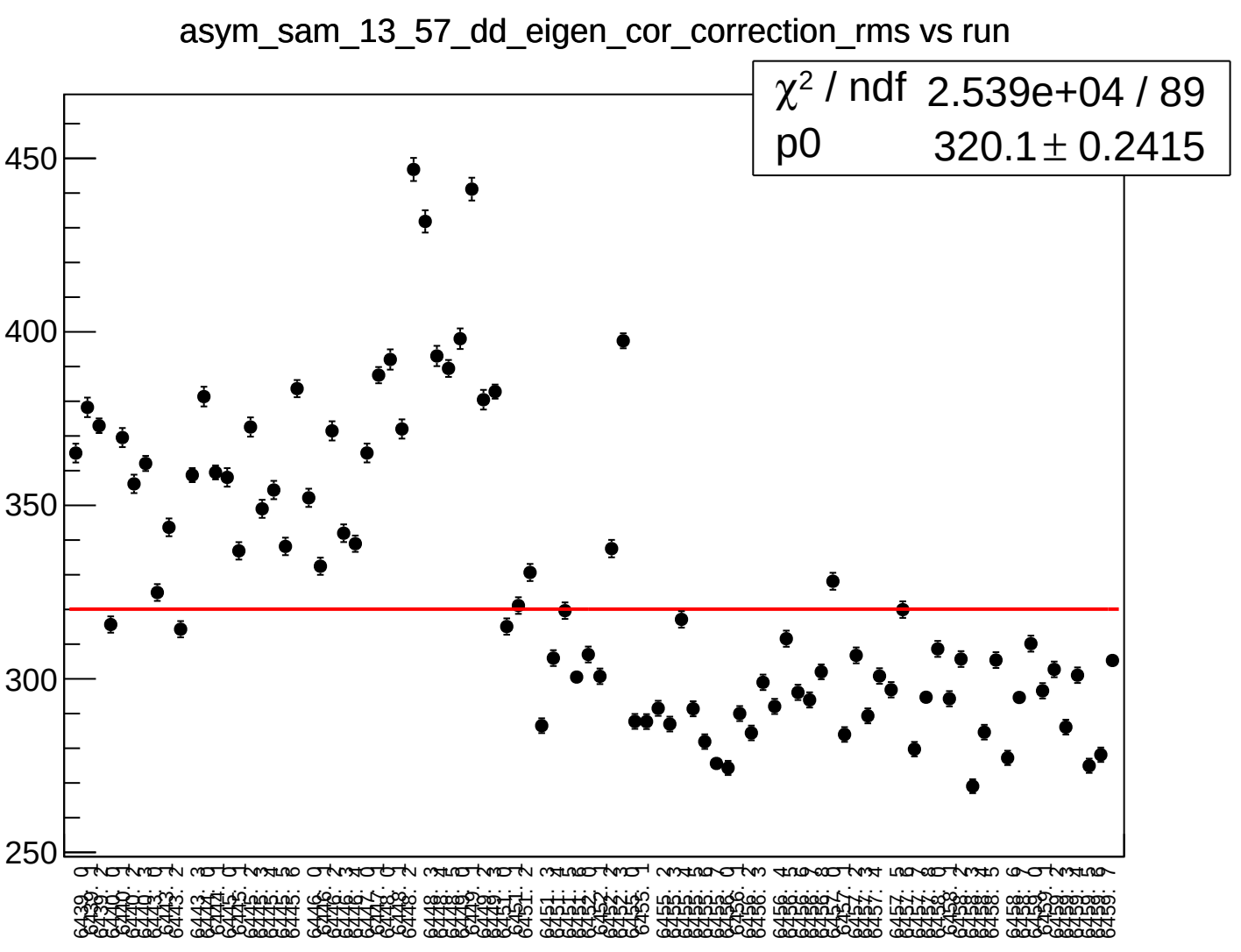

asym_sam_13_57_dd_cor_correction_rms vs run
χ² / ndf 2.539e+04 / 89
p0 320.1 ± 0.2415
450
400
350
300
250

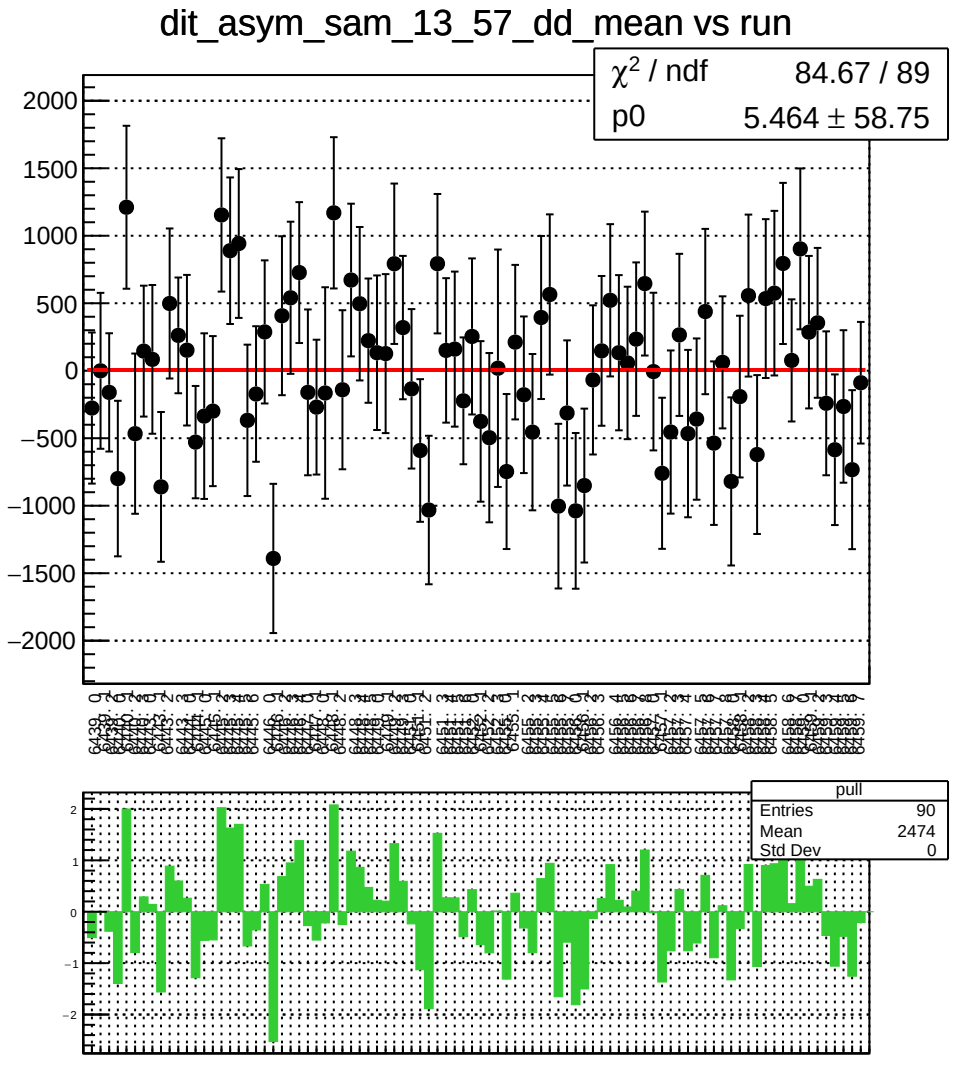

eigen_cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 80.28 / 89
p0 −8.057 ± 53.5
pull
Entries 90
Mean −98.69
Std Dev 0

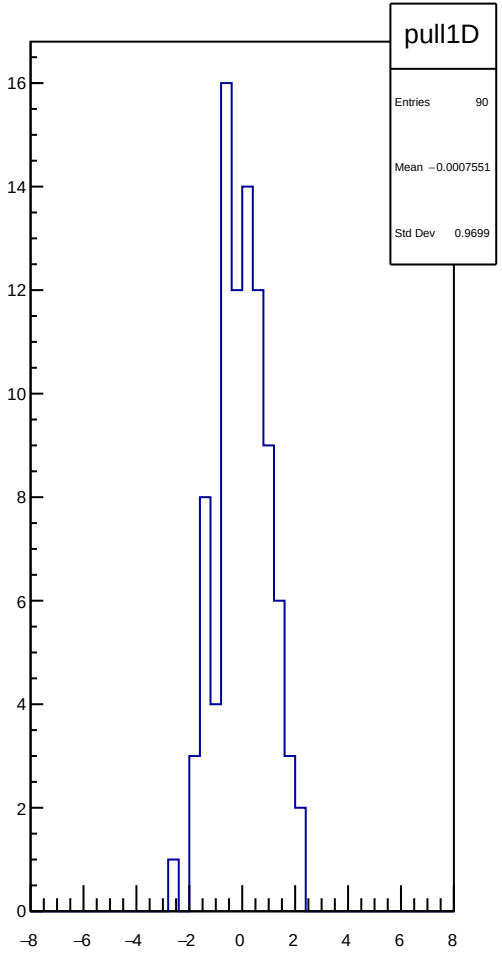

pull1D
Entries 90
Mean −0.004927
Std Dev 0.9444

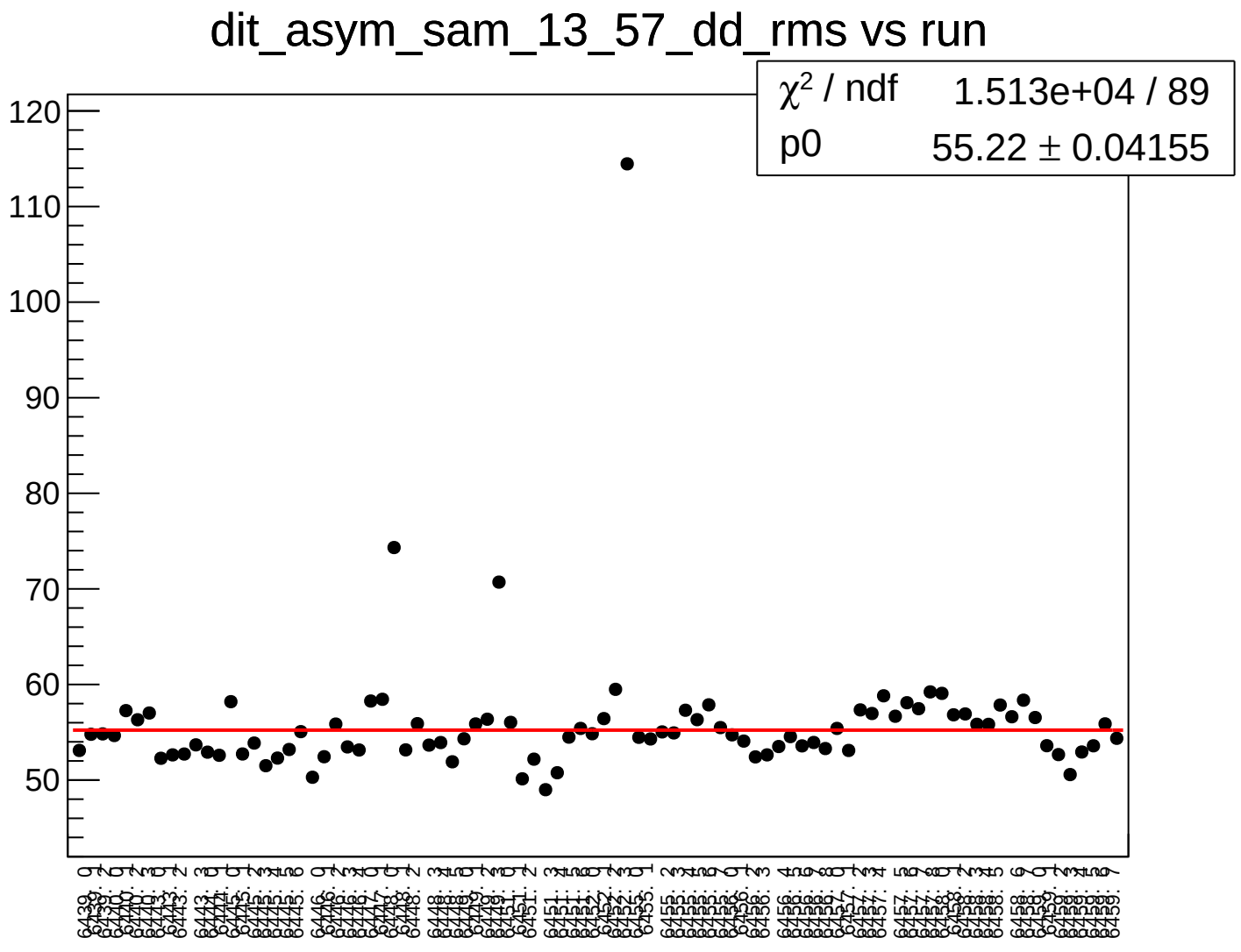

eigen_cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 1.316e+04 / 89
p0 50.32 ± 0.03783
85
80
75
70
65
60
55
50
45

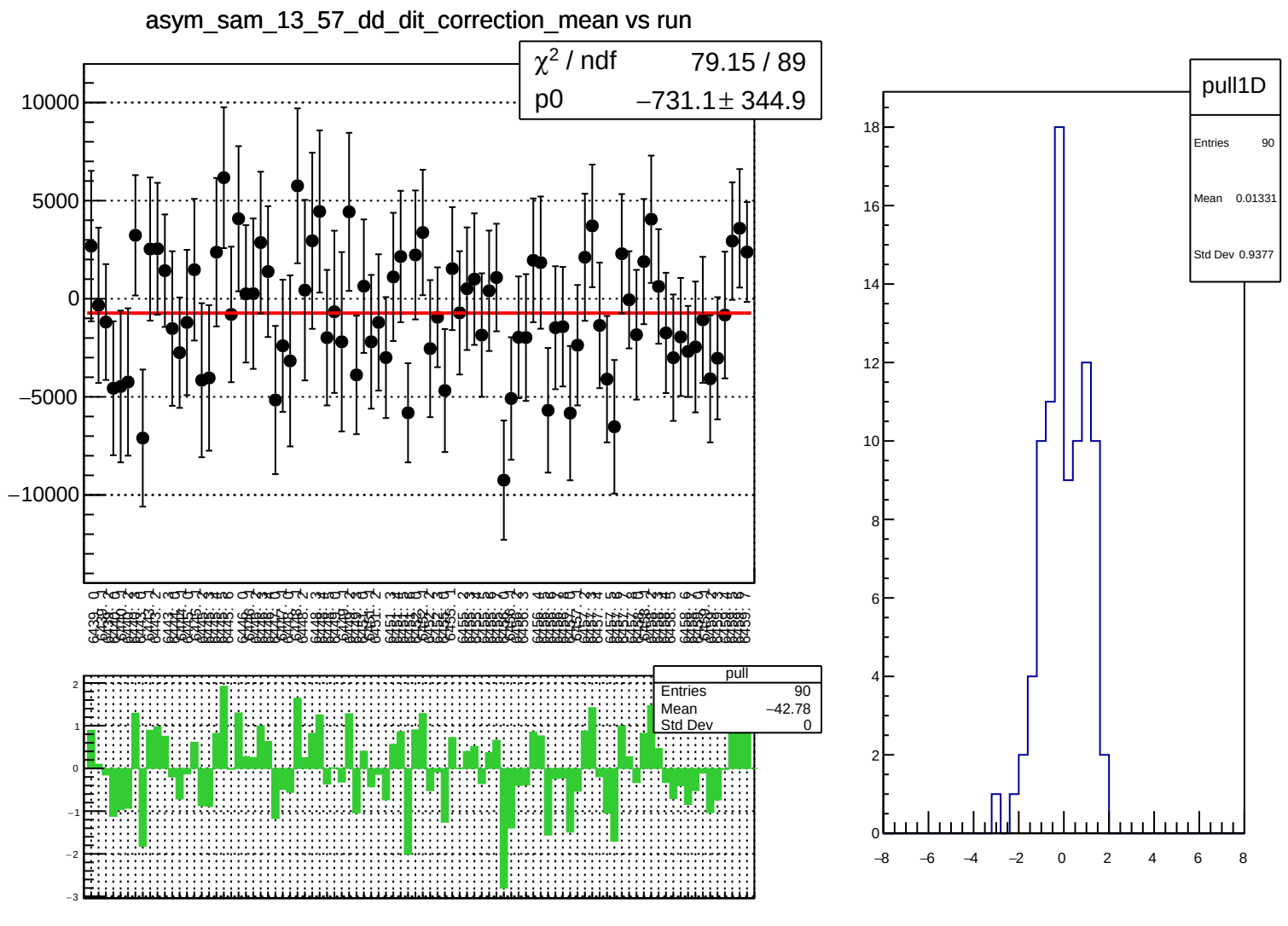

asym_sam_13_57_dd_eigen_cor_correction_mean vs run
χ² / ndf 78.37 / 89
p0 −742 ± 341.5
10000
5000
0
−5000
−10000
pull
Entries 90
Mean −12.48
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 90
Mean 0.01234
Std Dev 0.9331
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

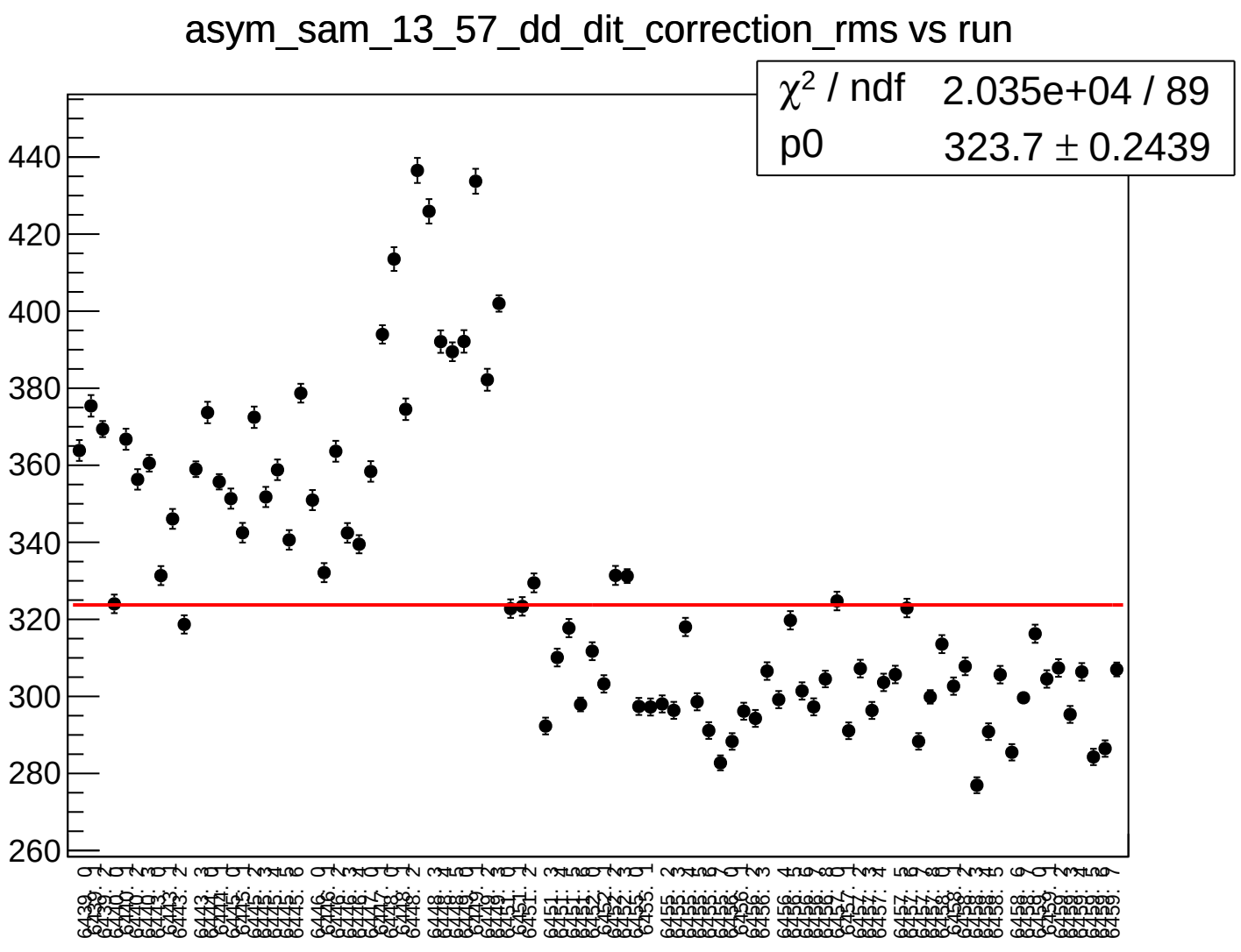

asym_sam_13_57_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.539e+04 / 89
p0 320.1 ± 0.2415
450
400
350
300
250

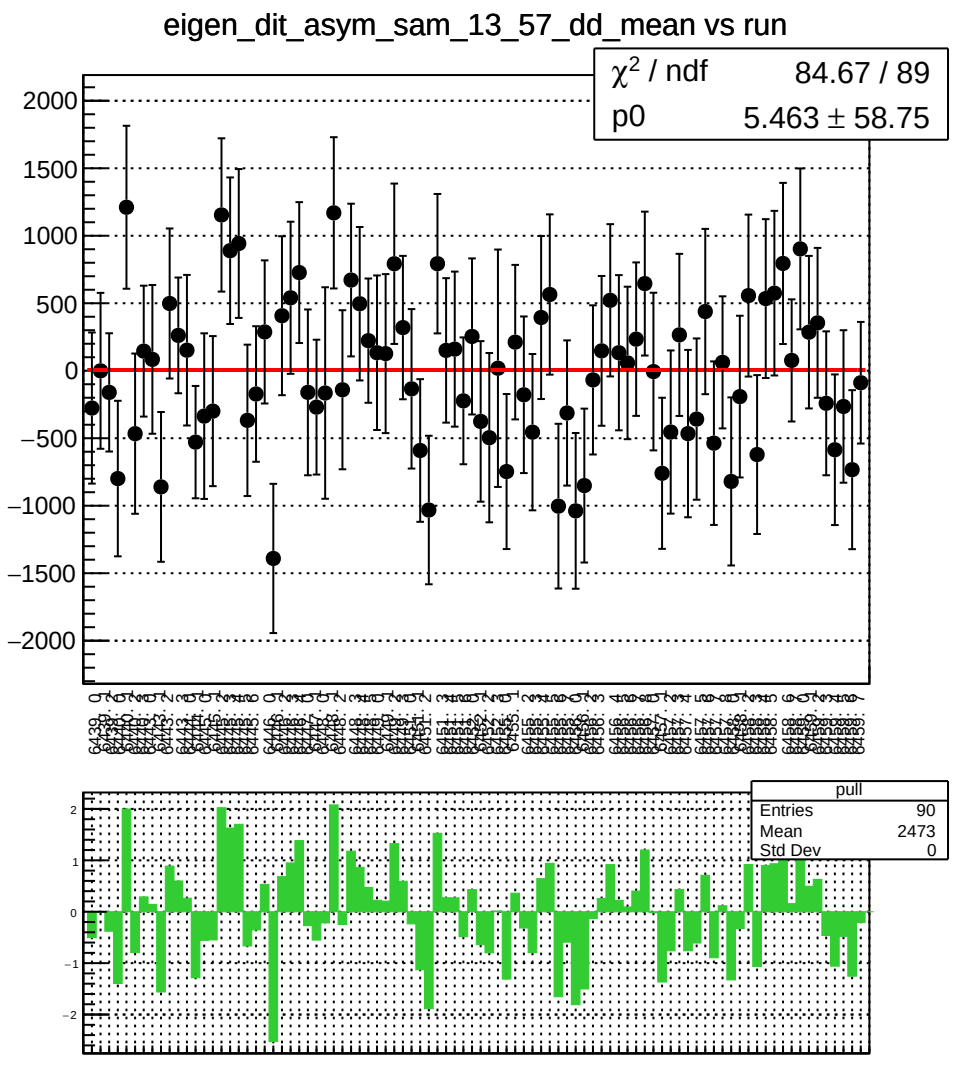

dit_asym_sam_13_57_dd_mean vs run
χ^2 / ndf 84.67 / 89
p0 5.464 ± 58.75
pull
Entries 90
Mean 2474
Std Dev 0

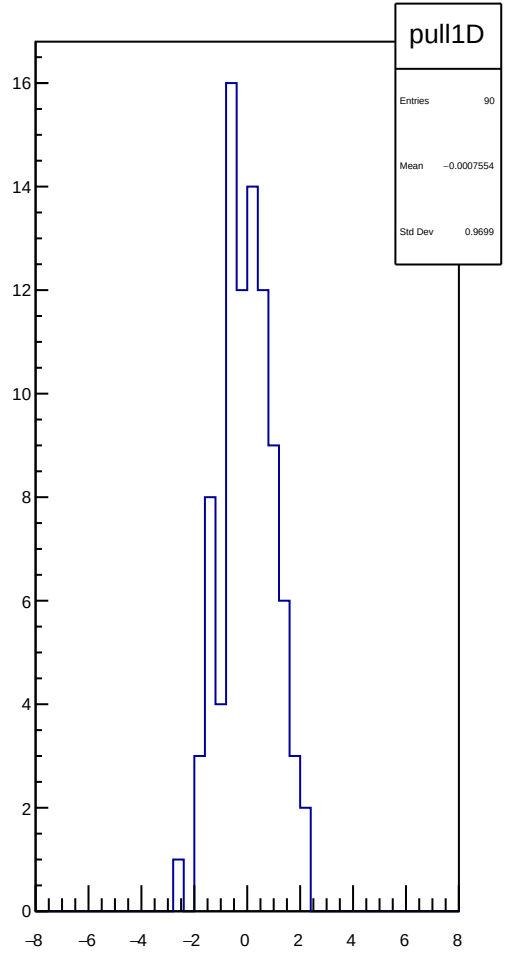

pull1D
Entries 90
Mean −0.0007551
Std Dev 0.9699

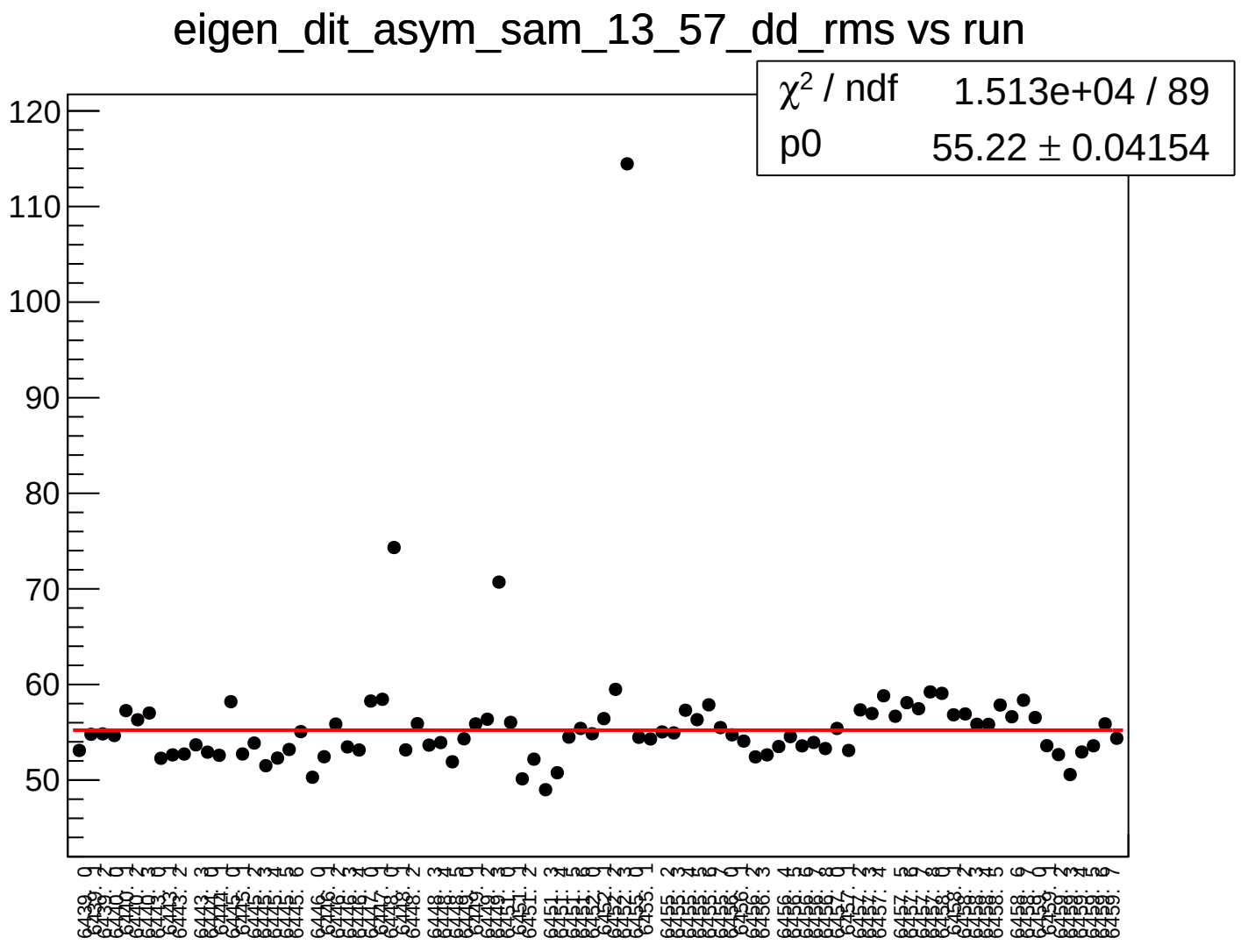

dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 1.513e+04 / 89
p0 55.22 ± 0.04155
120
110
100
90
80
70
60
50

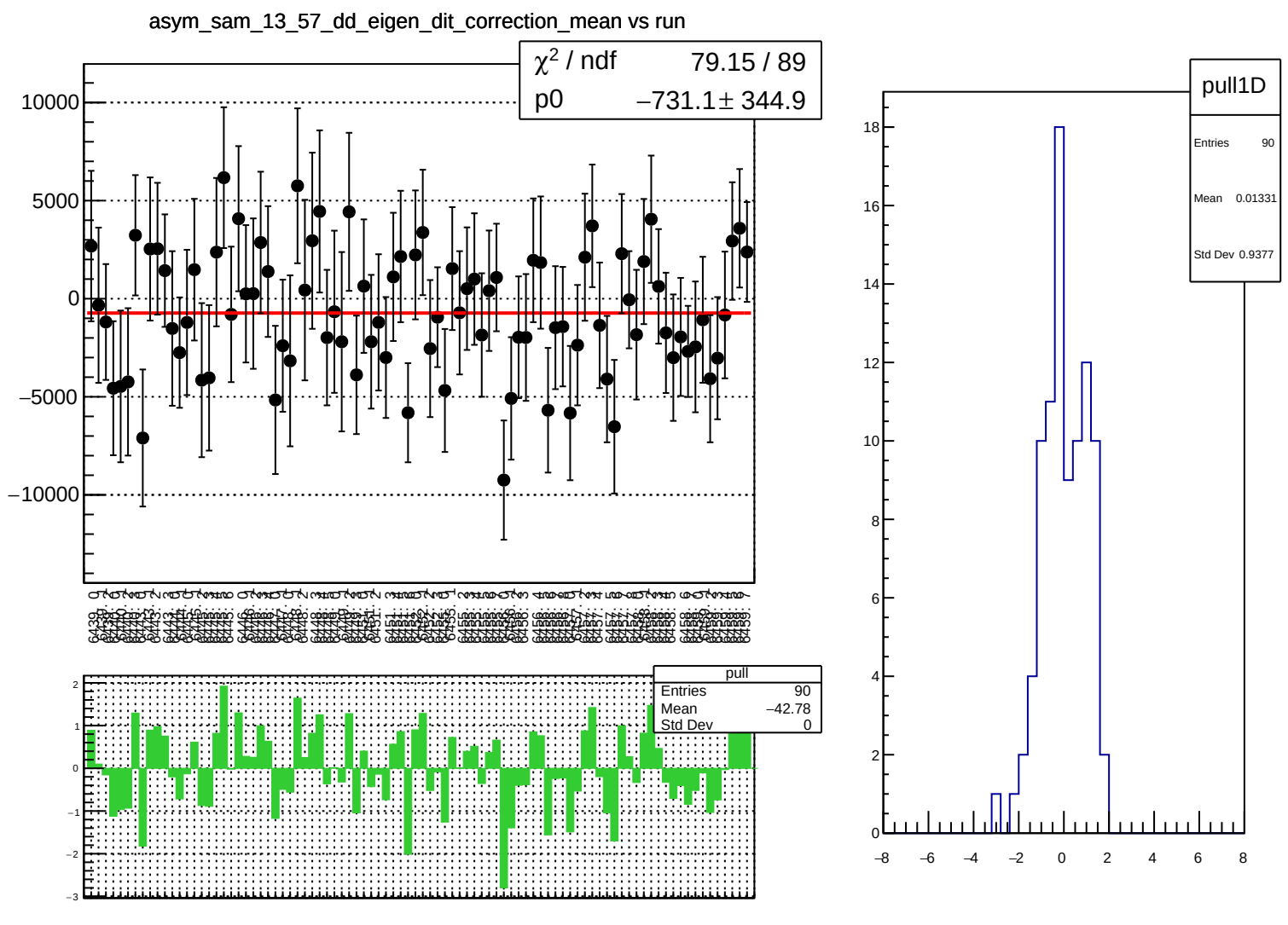

asym_sam_13_57_dd_dit_correction_mean vs run
χ² / ndf 79.15 / 89
p0 −731.1 ± 344.9
10000
5000
0
−5000
−10000
pull
Entries 90
Mean −42.78
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 90
Mean 0.01331
Std Dev 0.9377
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

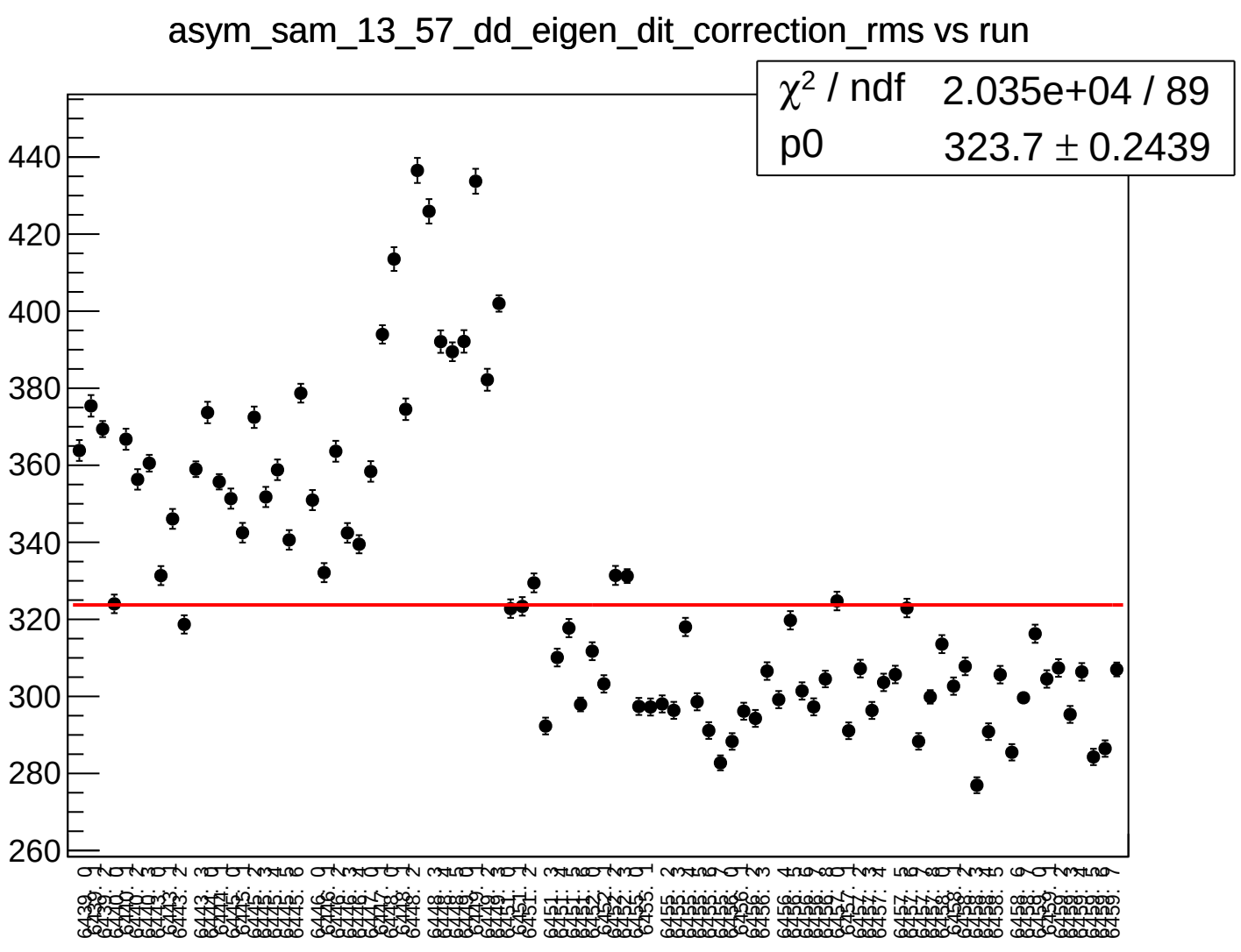

asym_sam_13_57_dd_dit_correction_rms vs run
χ² / ndf 2.035e+04 / 89
p0 323.7 ± 0.2439
440
420
400
380
360
340
320
300
280
260

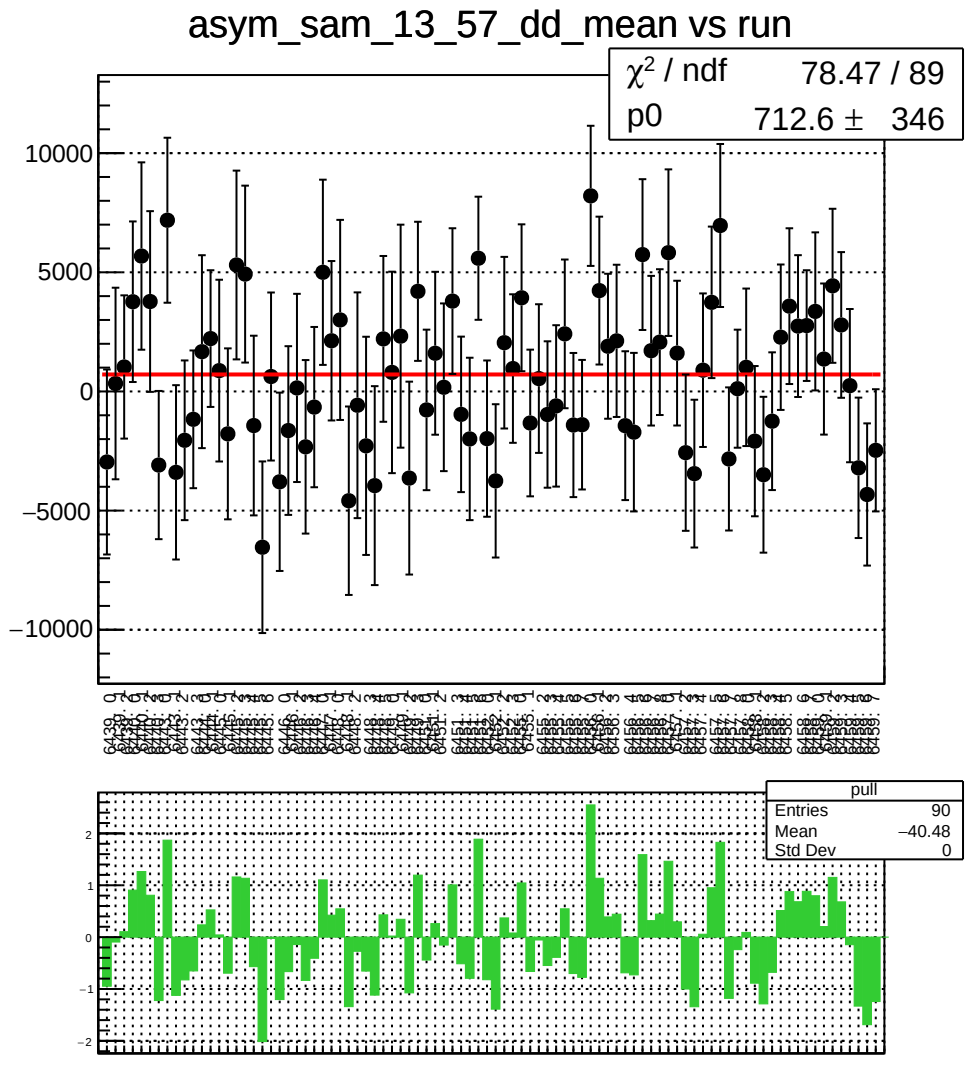

eigen_dit_asym_sam_13_57_dd_mean vs run
χ^2 / ndf 84.67 / 89
p0 5.463 ± 58.75
2000
1500
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 90
Mean 2473
Std Dev 0
2
1
0
−1
−2

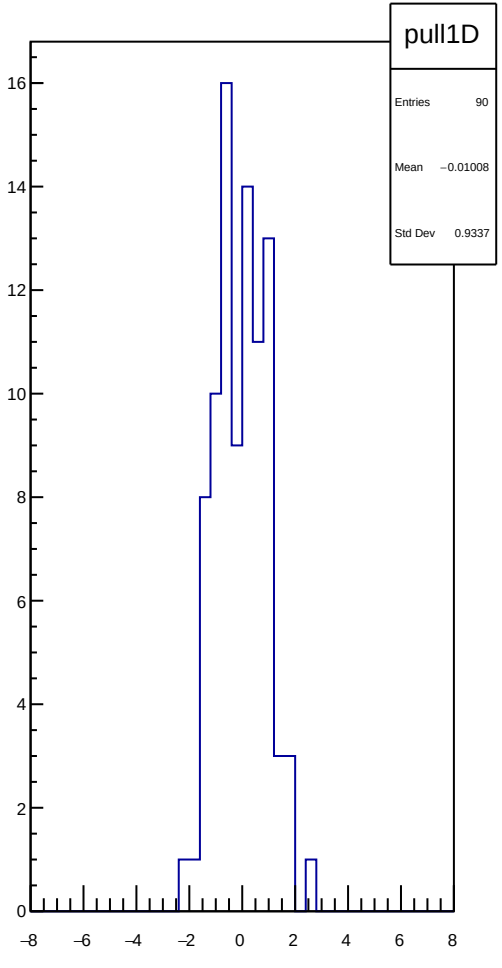

pull1D
Entries 90
Mean −0.0007554
Std Dev 0.9699
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

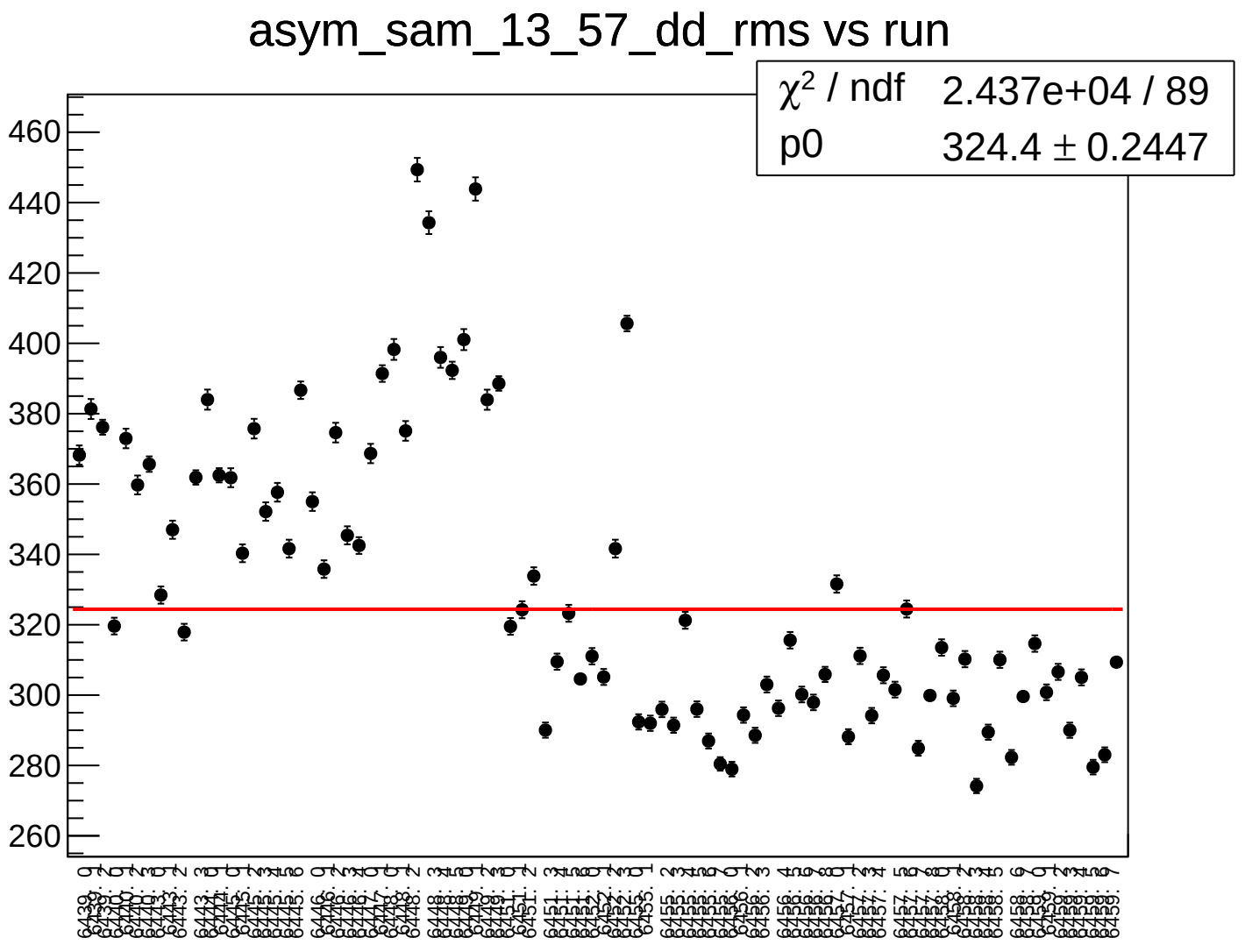

eigen_dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 1.513e+04 / 89
p0 55.22 ± 0.04154
120
110
100
90
80
70
60
50

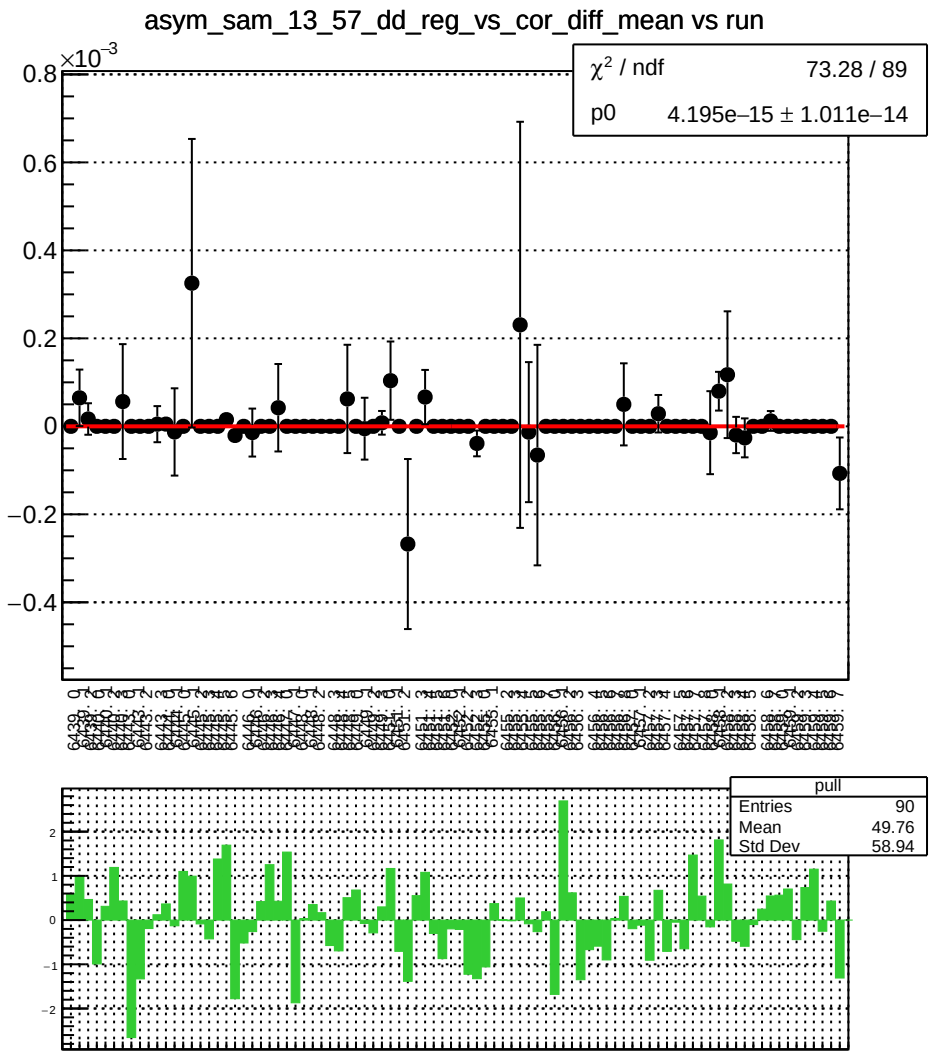

asym_sam_13_57_dd_eigen_dit_correction_mean vs run
χ² / ndf 79.15 / 89
p0 −731.1 ± 344.9
10000
5000
0
−5000
−10000
pull
Entries 90
Mean −42.78
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 90
Mean 0.01331
Std Dev 0.9377
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

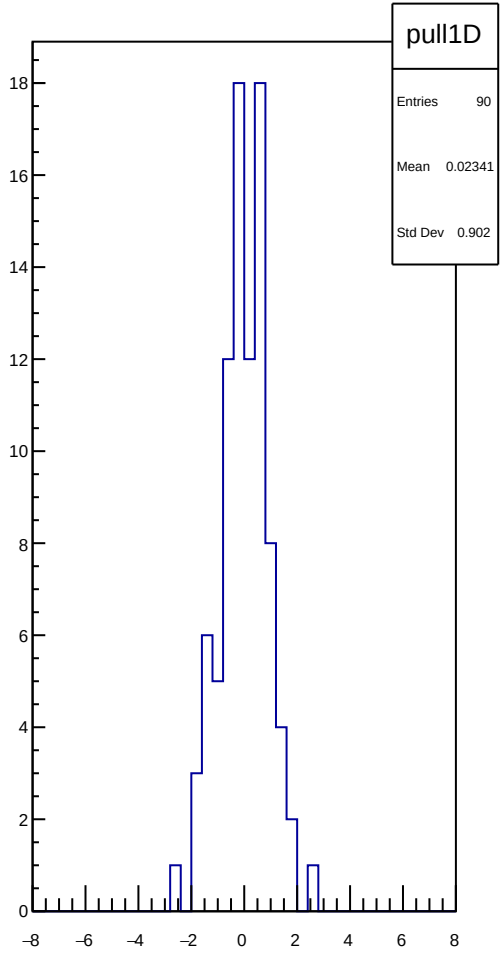

asym_sam_13_57_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.035e+04 / 89
p0 323.7 ± 0.2439
440
420
400
380
360
340
320
300
280
260

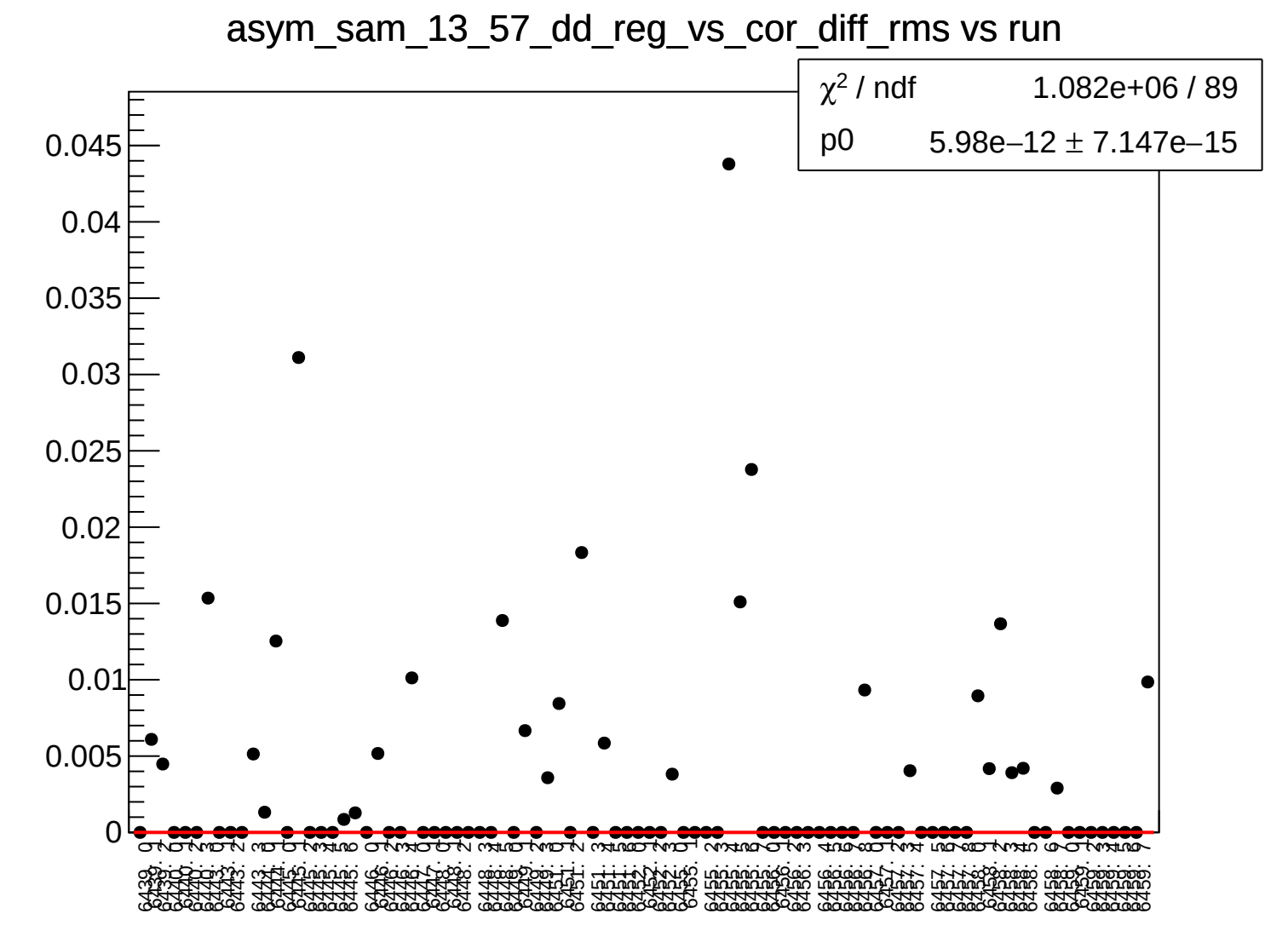

asym_sam_13_57_dd_mean vs run
χ² / ndf 78.47 / 89
p0 712.6 ± 346
10000
5000
0
−5000
−10000
pull
Entries 90
Mean −40.48
Std Dev 0
2
1
0
−1
−2

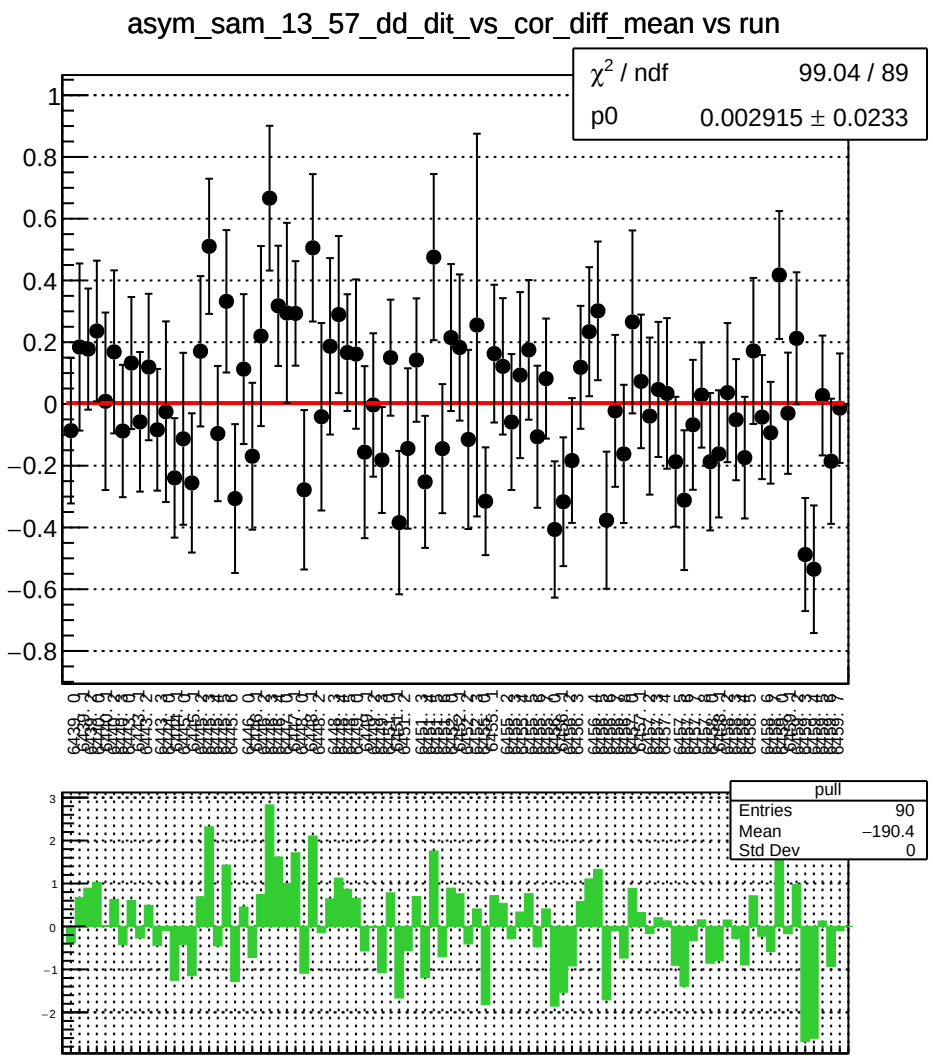

pull1D
Entries 90
Mean −0.01008
Std Dev 0.9337
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

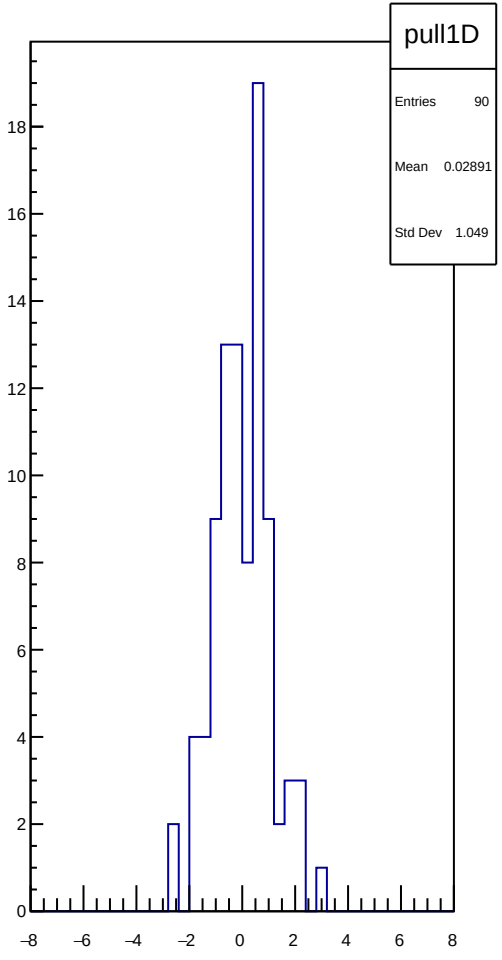

asym_sam_13_57_dd_rms vs run
χ² / ndf 2.437e+04 / 89
p0 324.4 ± 0.2447
460
440
420
400
380
360
340
320
300
280
260

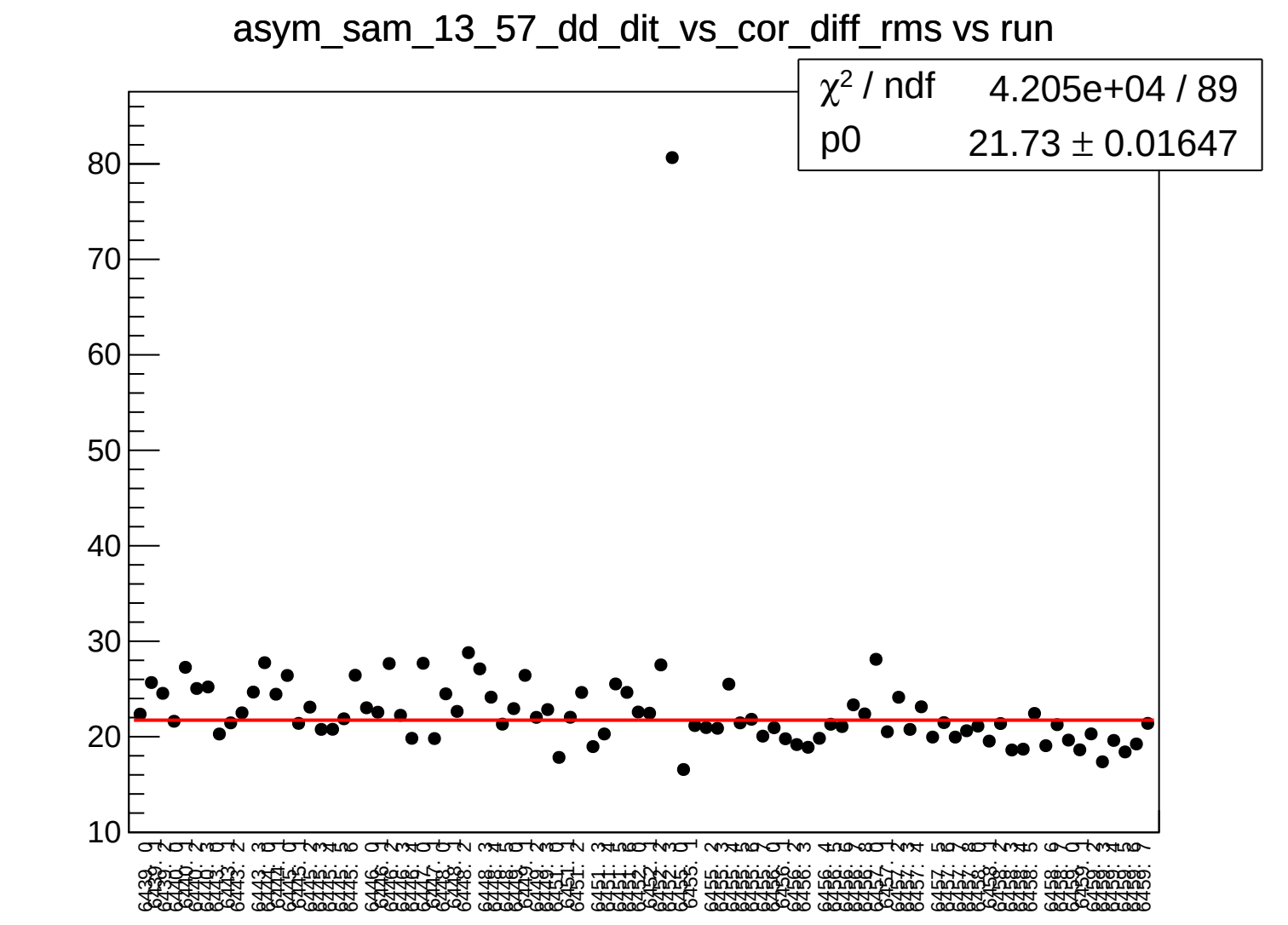

asym_sam_13_57_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 73.28 / 89
p0 4.195e−15 ± 1.011e−14
pull
Entries 90
Mean 49.76
Std Dev 58.94

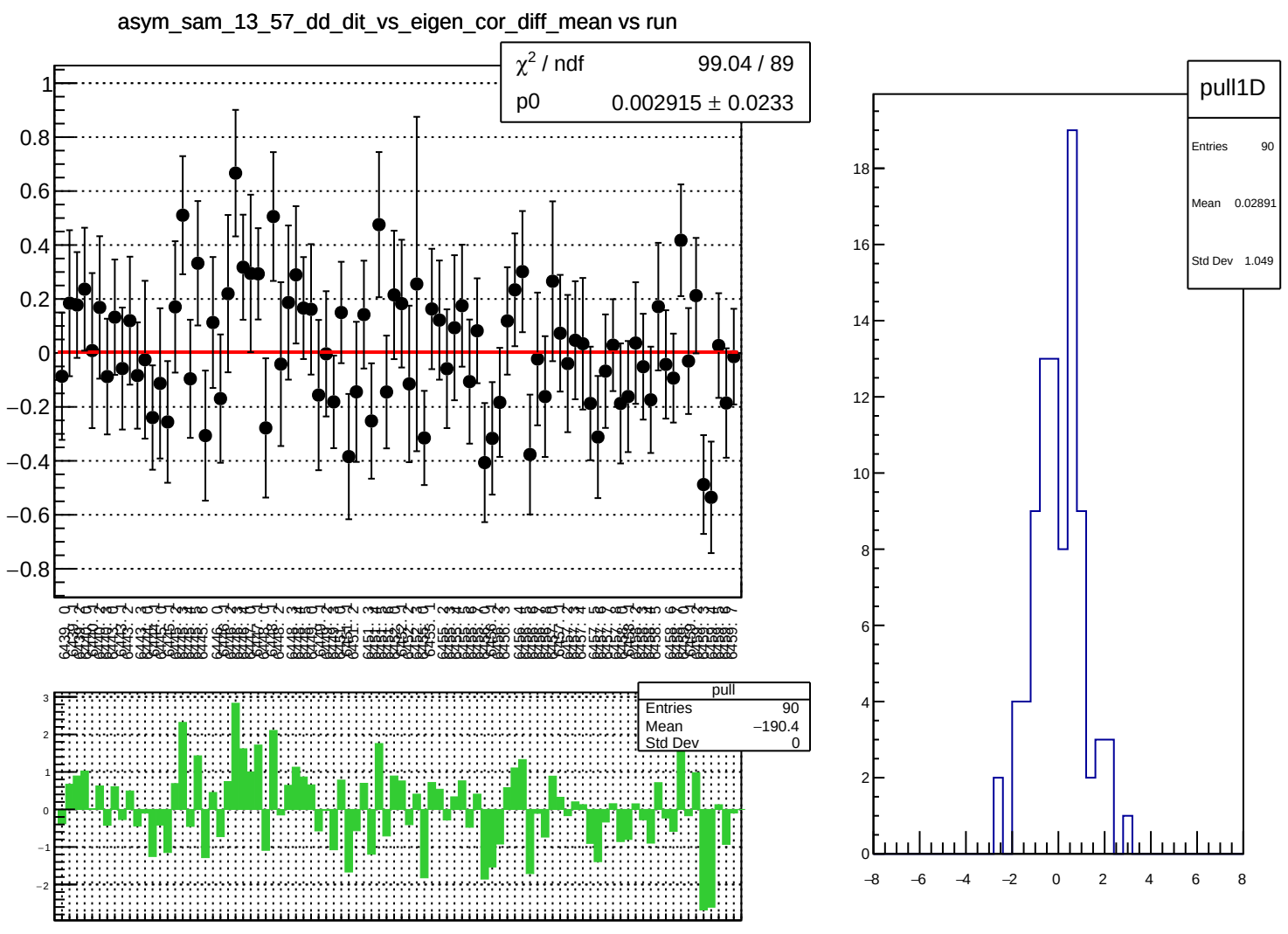

pull1D
Entries 90
Mean 0.02341
Std Dev 0.902

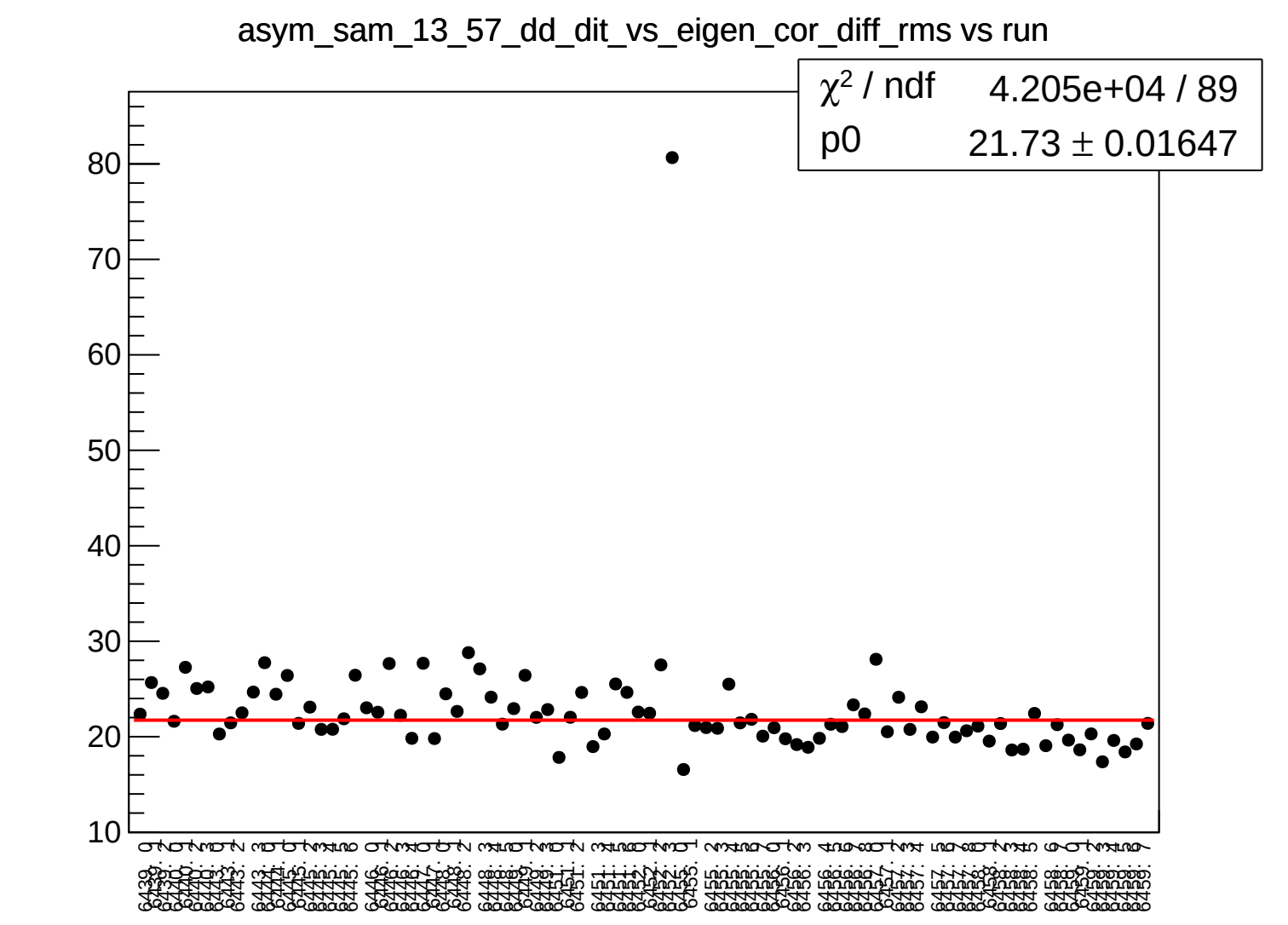

asym_sam_13_57_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.082e+06 / 89
p0 5.98e−12 ± 7.147e−15
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

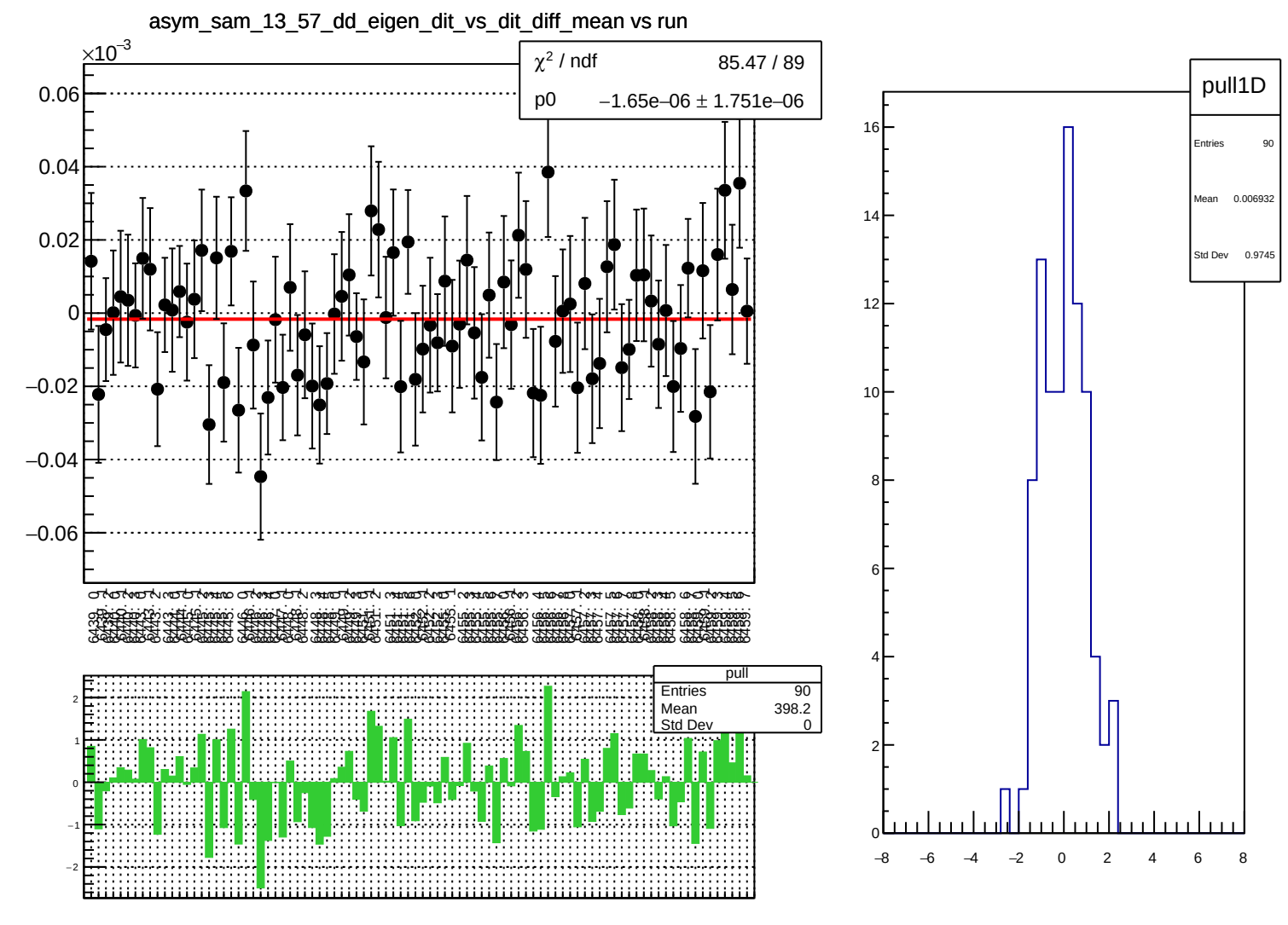

asym_sam_13_57_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 99.04 / 89
p0 0.002915 ± 0.0233
pull
Entries 90
Mean −190.4
Std Dev 0

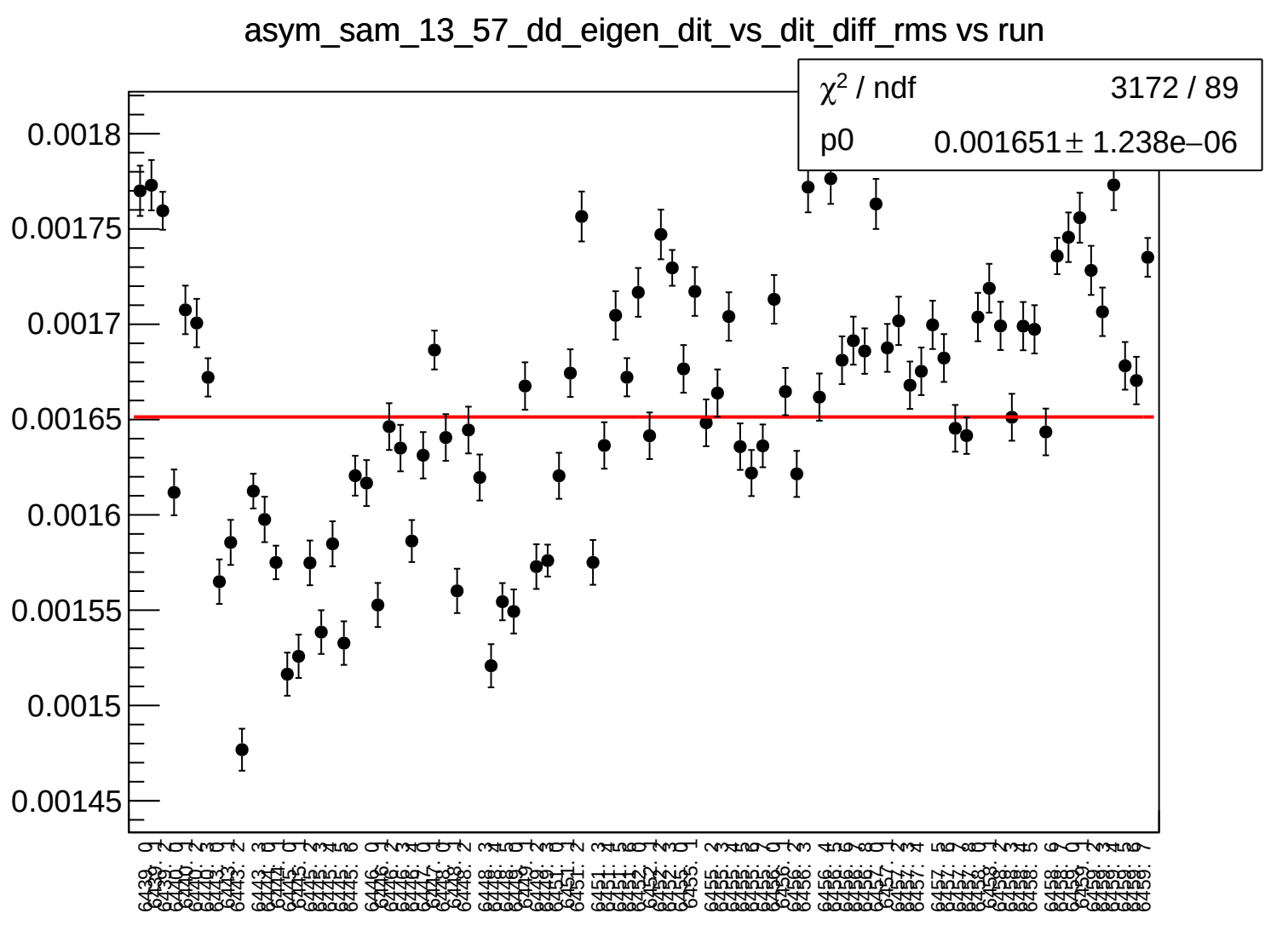

pull1D
Entries 90
Mean 0.02891
Std Dev 1.049

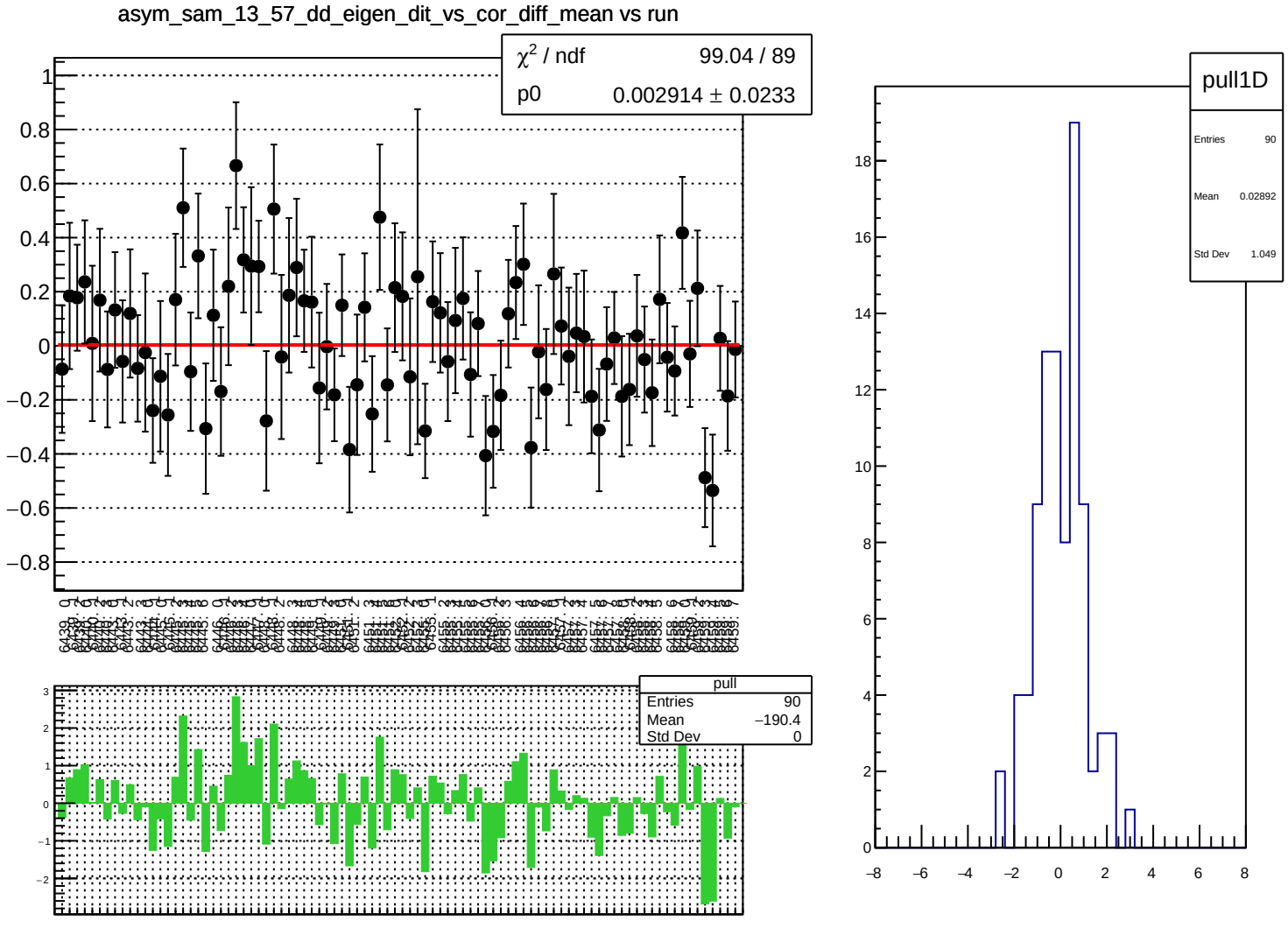

asym_sam_13_57_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.205e+04 / 89
p0 21.73 ± 0.01647
80
70
60
50
40
30
20
10

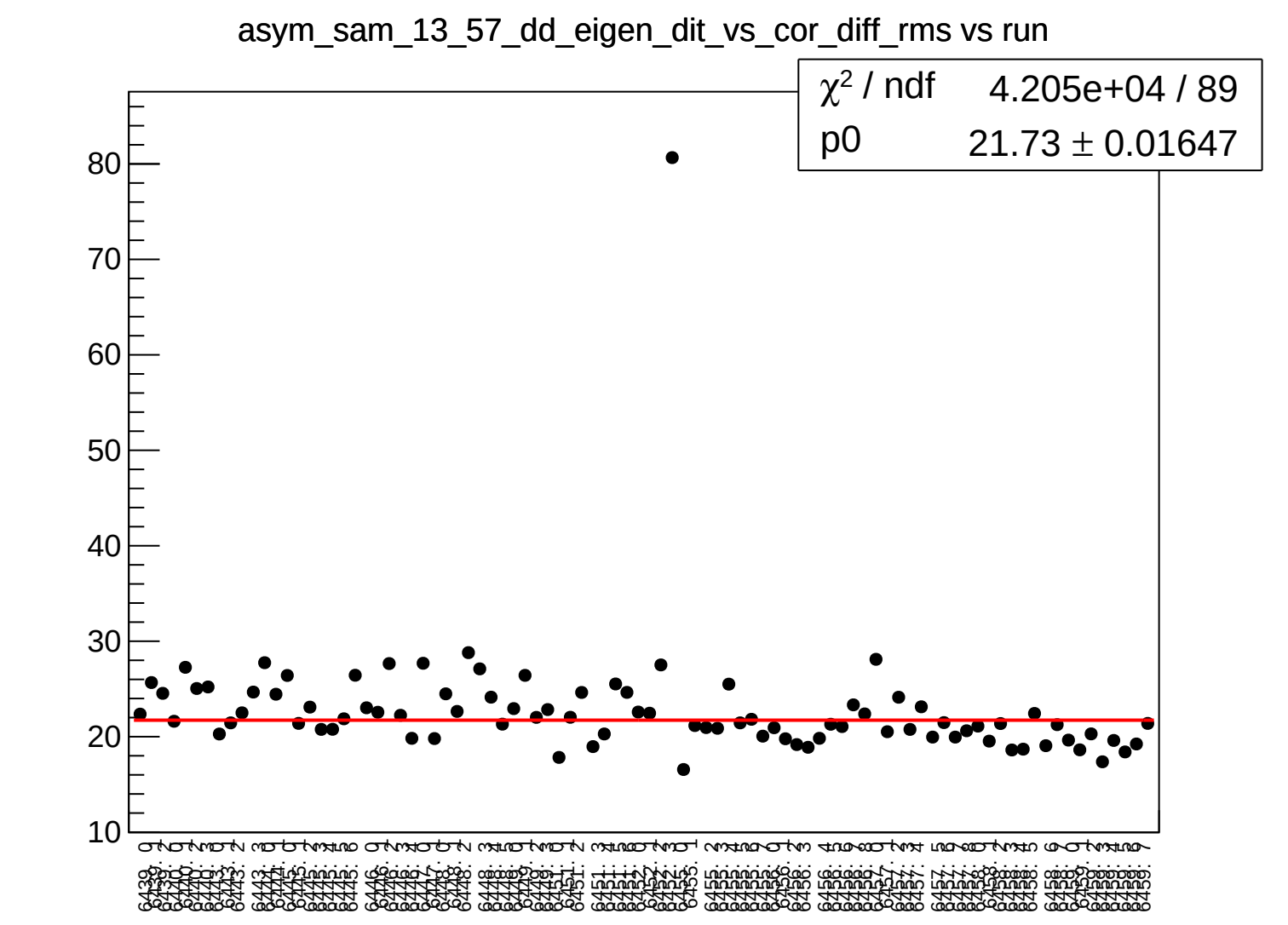

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.04 / 89
p0 0.002915 ± 0.0233
pull
Entries 90
Mean −190.4
Std Dev 0
pull1D
Entries 90
Mean 0.02891
Std Dev 1.049

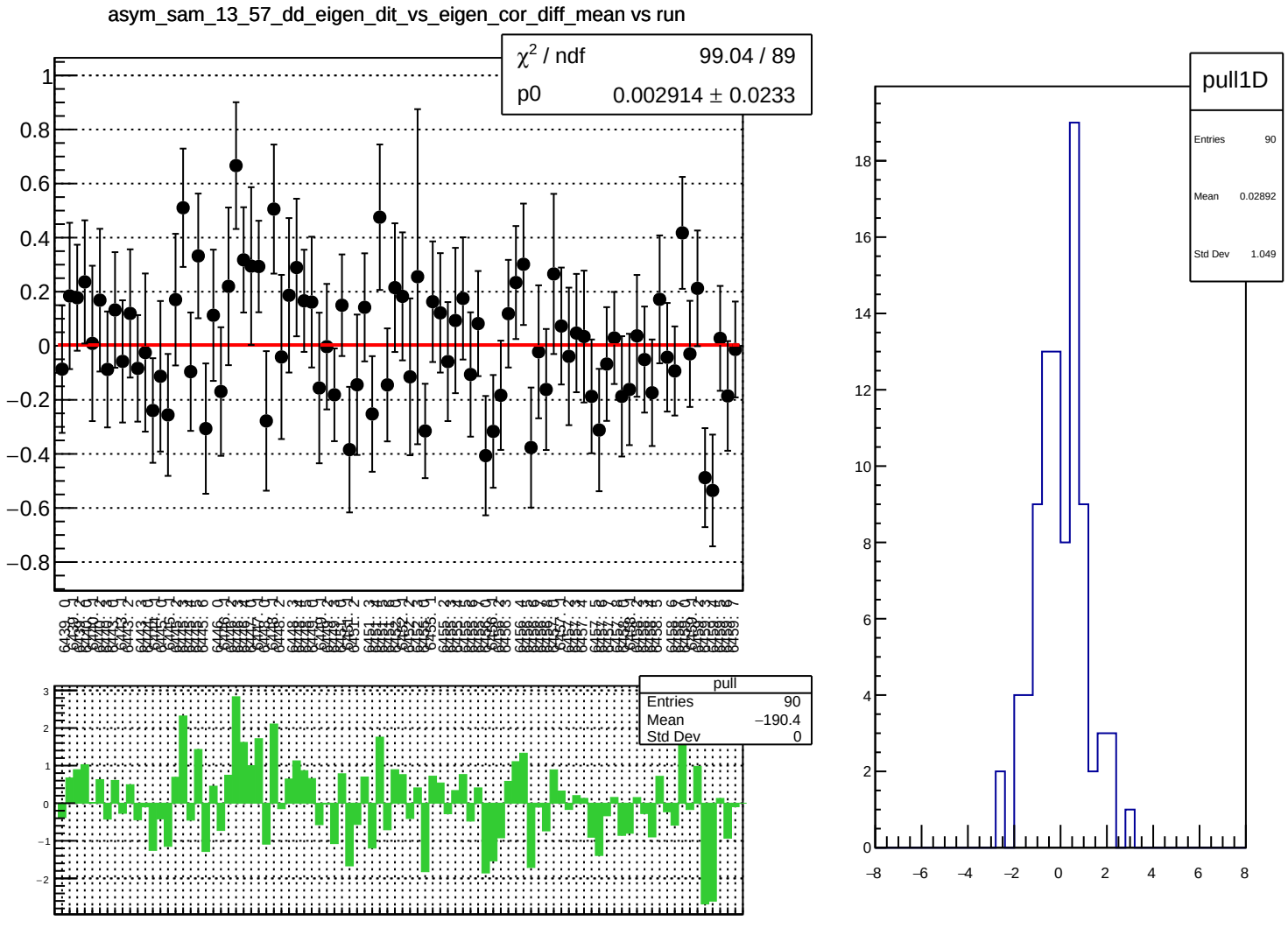

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.205e+04 / 89
p0 21.73 ± 0.01647
80
70
60
50
40
30
20
10

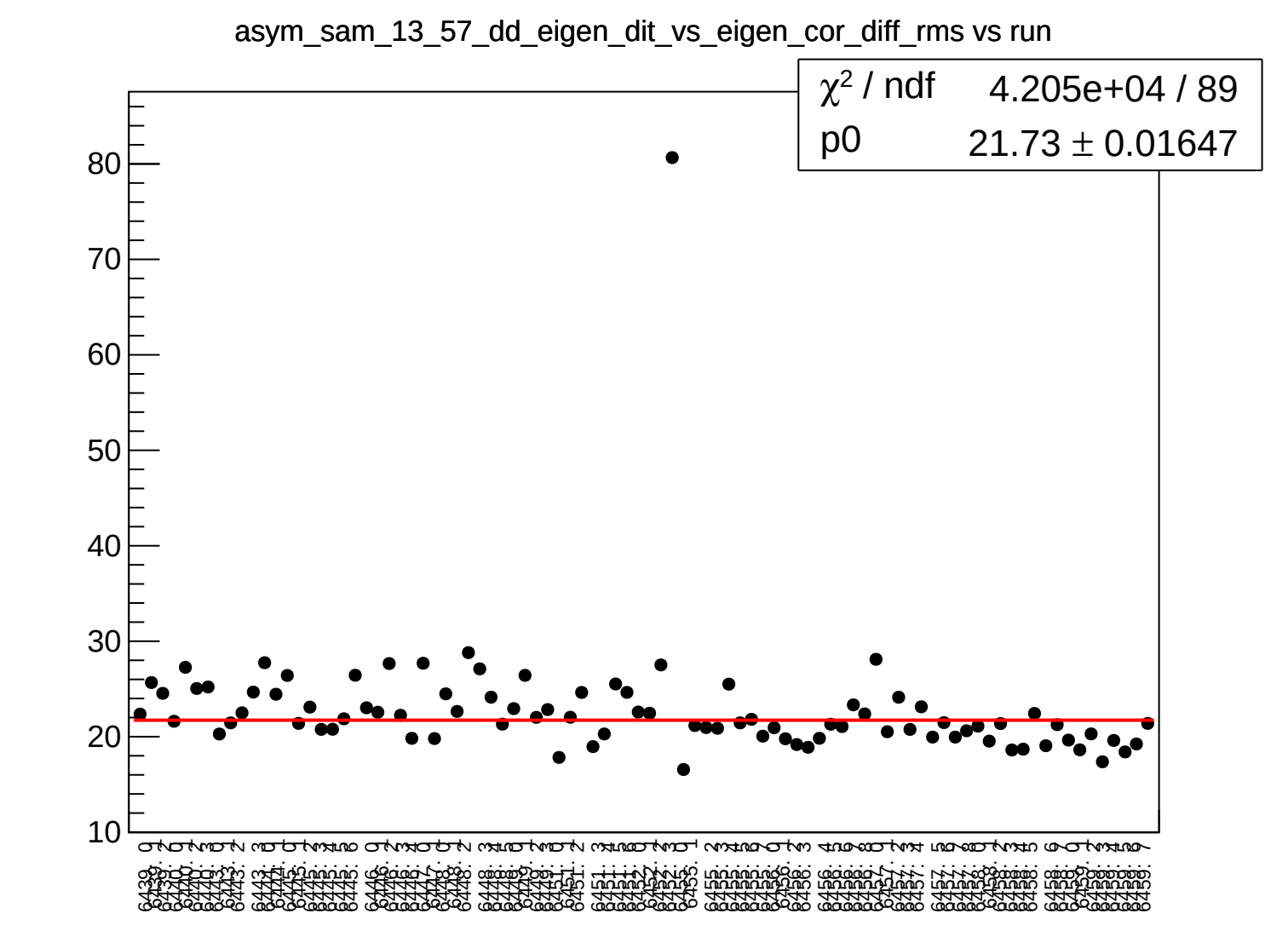

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.47 / 89
p0 −1.65e−06 ± 1.751e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 90
Mean 398.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 90
Mean 0.006932
Std Dev 0.9745
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

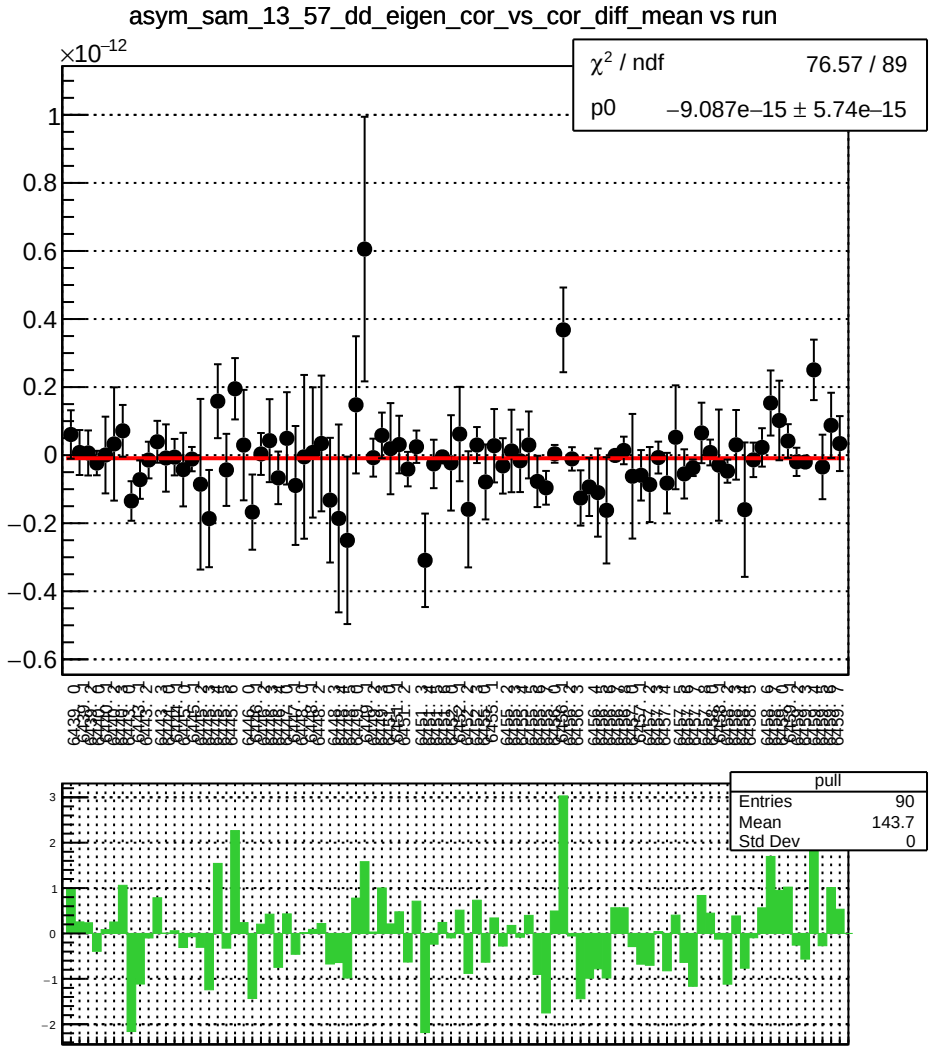

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3172 / 89
p0 0.001651 ± 1.238e−06
0.0018
0.00175
0.0017
0.00165
0.0016
0.00155
0.0015
0.00145

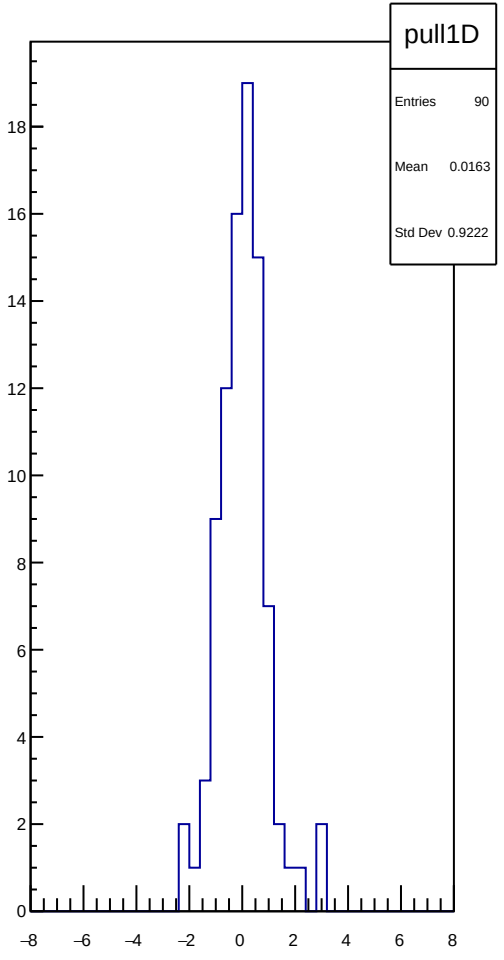

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 99.04 / 89
p0 0.002914 ± 0.0233
pull
Entries 90
Mean −190.4
Std Dev 0
pull1D
Entries 90
Mean 0.02892
Std Dev 1.049

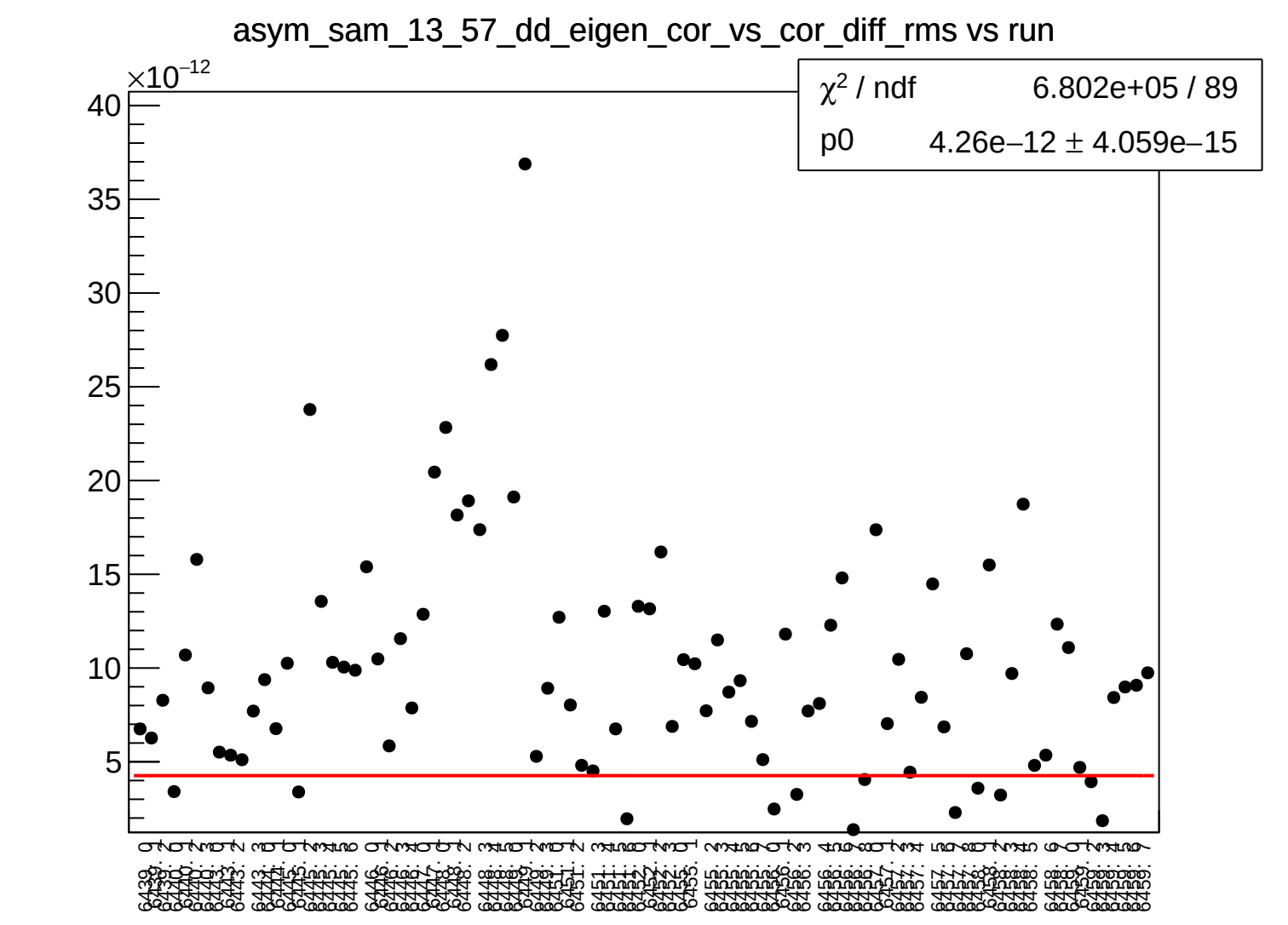

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.205e+04 / 89
p0 21.73 ± 0.01647
80
70
60
50
40
30
20
10

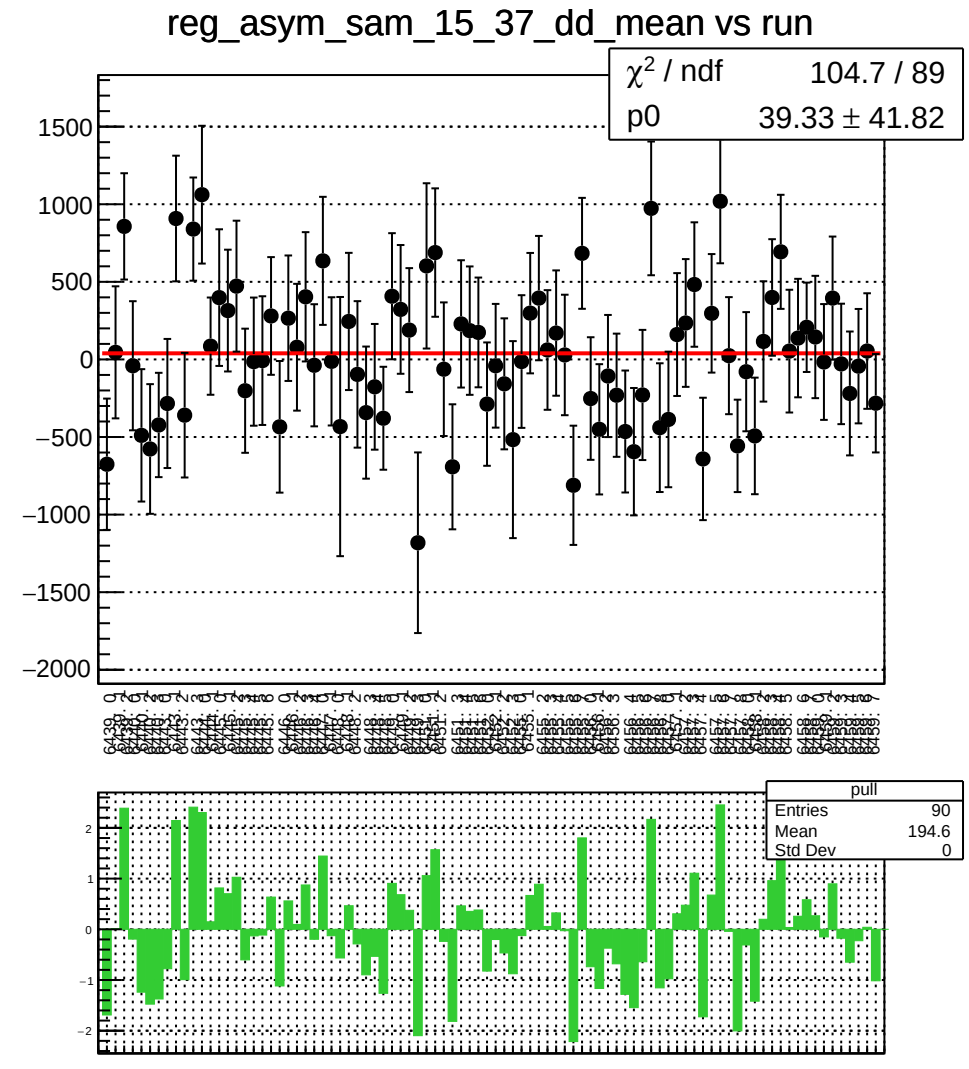

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.04 / 89
p0 0.002914 ± 0.0233
pull
Entries 90
Mean −190.4
Std Dev 0
pull1D
Entries 90
Mean 0.02892
Std Dev 1.049

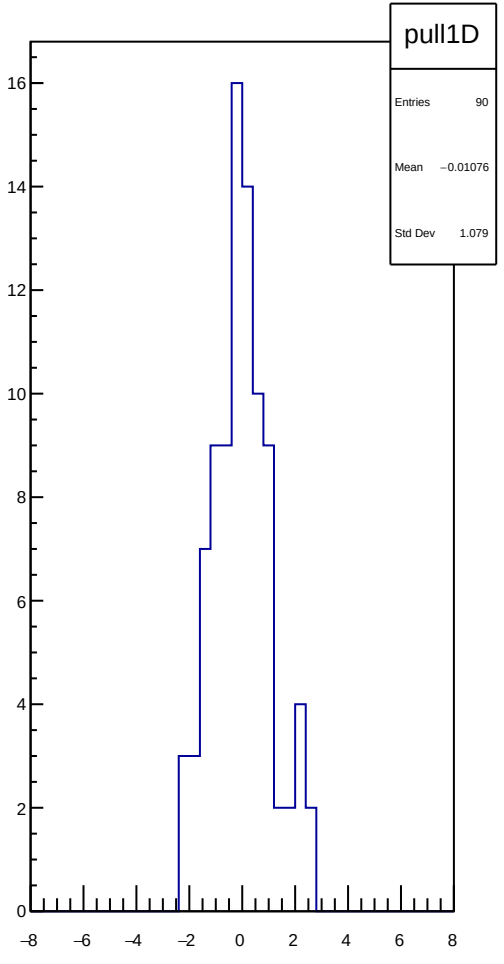

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.205e+04 / 89
p0 21.73 ± 0.01647
80
70
60
50
40
30
20
10

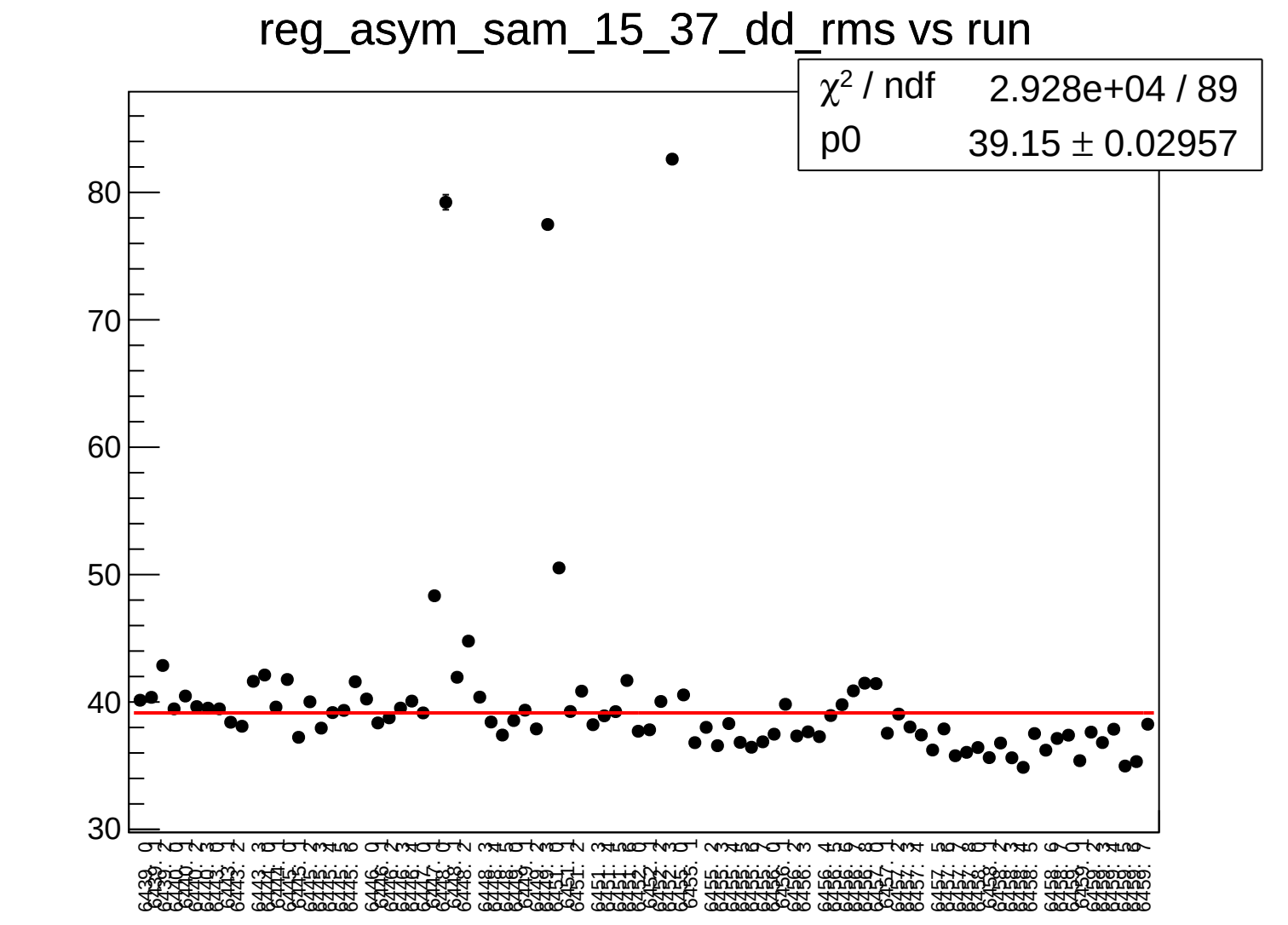

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.57 / 89
p0 −9.087e−15 ± 5.74e−15
pull
Entries 90
Mean 143.7
Std Dev 0

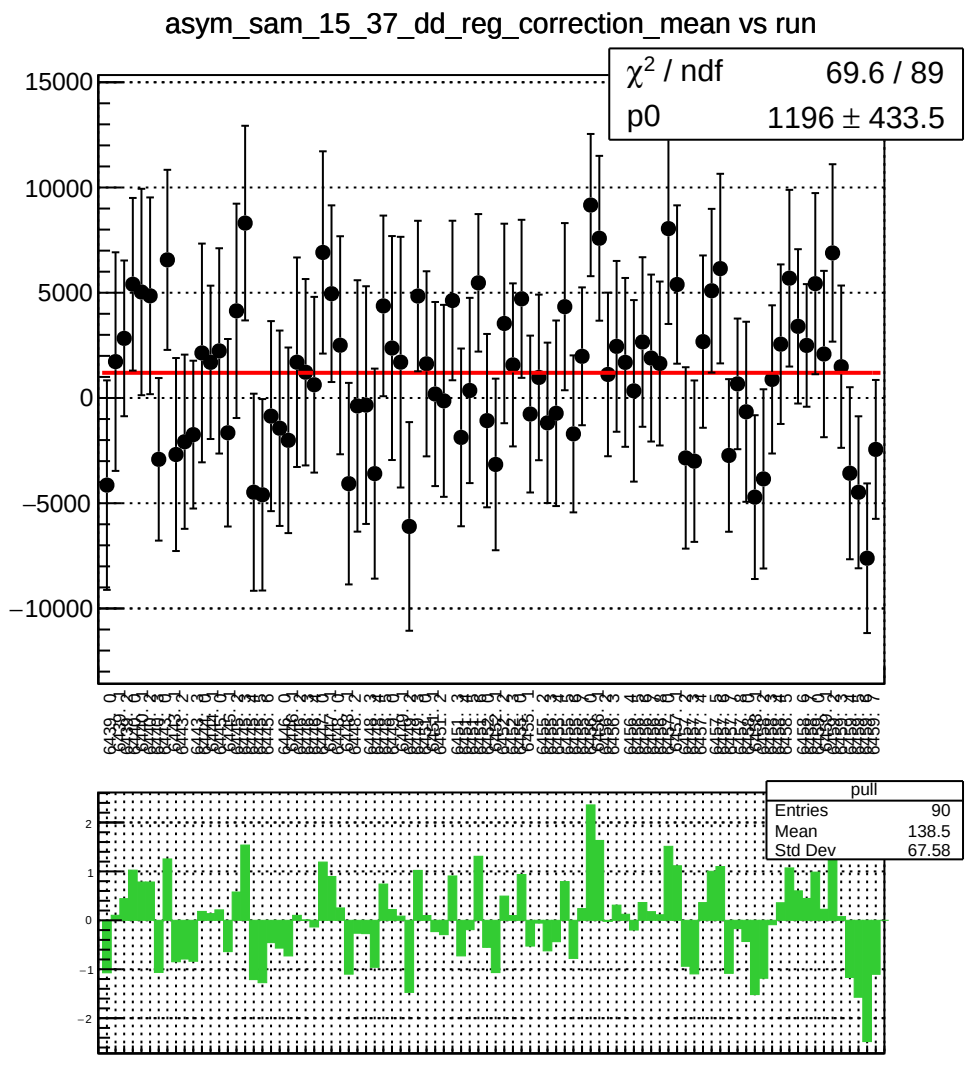

pull1D
Entries 90
Mean 0.0163
Std Dev 0.9222

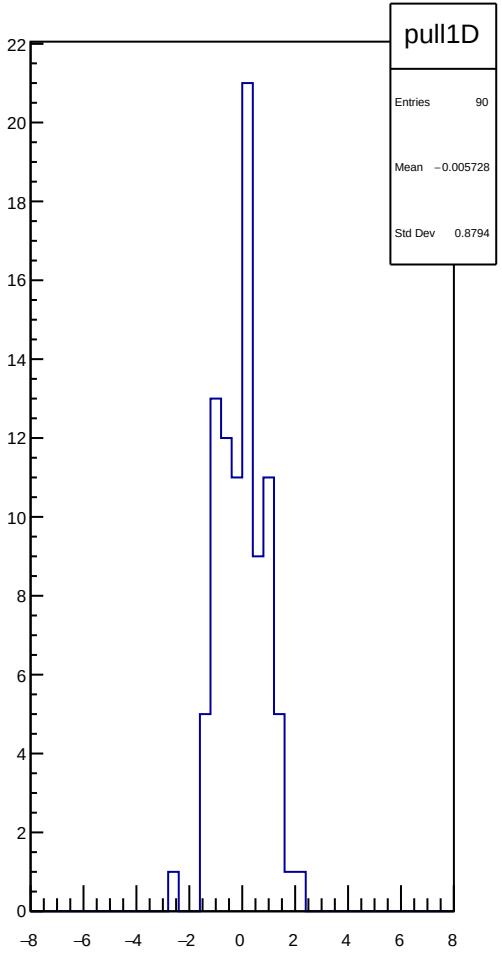

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.802e+05 / 89
p0 4.26e−12 ± 4.059e−15
40
35
30
25
20
15
10
5

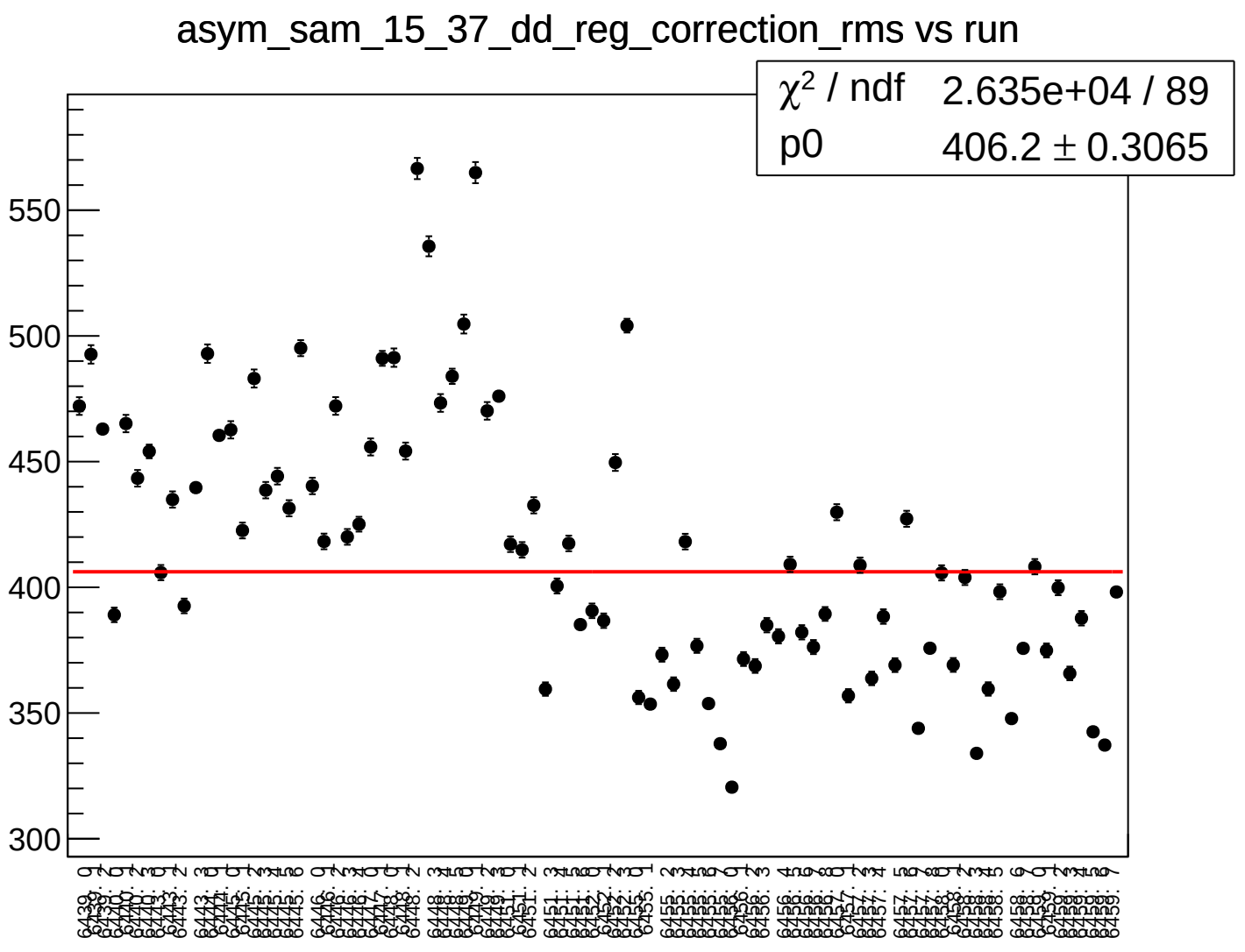

reg_asym_sam_15_37_dd_mean vs run
χ^2 / ndf 104.7 / 89
p0 39.33 ± 41.82
pull
Entries 90
Mean 194.6
Std Dev 0

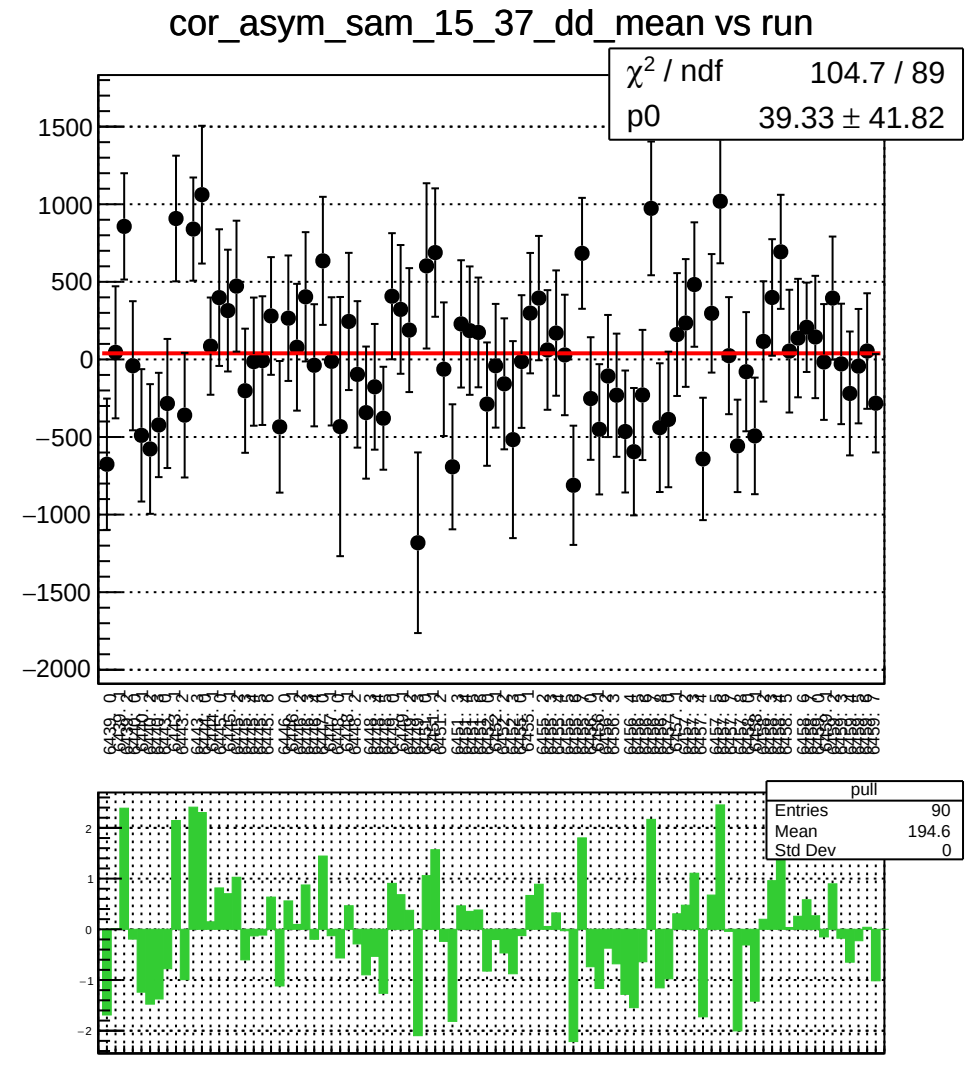

pull1D
Entries 90
Mean −0.01076
Std Dev 1.079

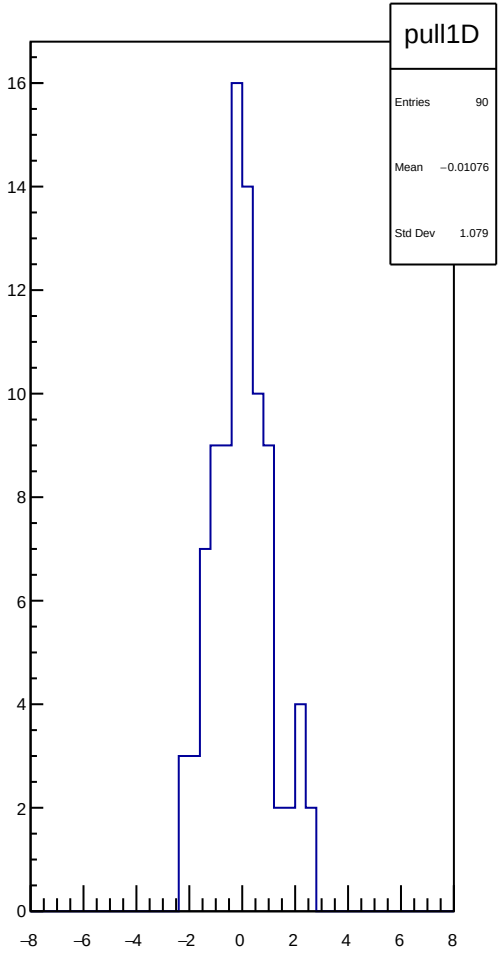

reg_asym_sam_15_37_dd_rms vs run
χ² / ndf 2.928e+04 / 89
p0 39.15 ± 0.02957
80
70
60
50
40
30

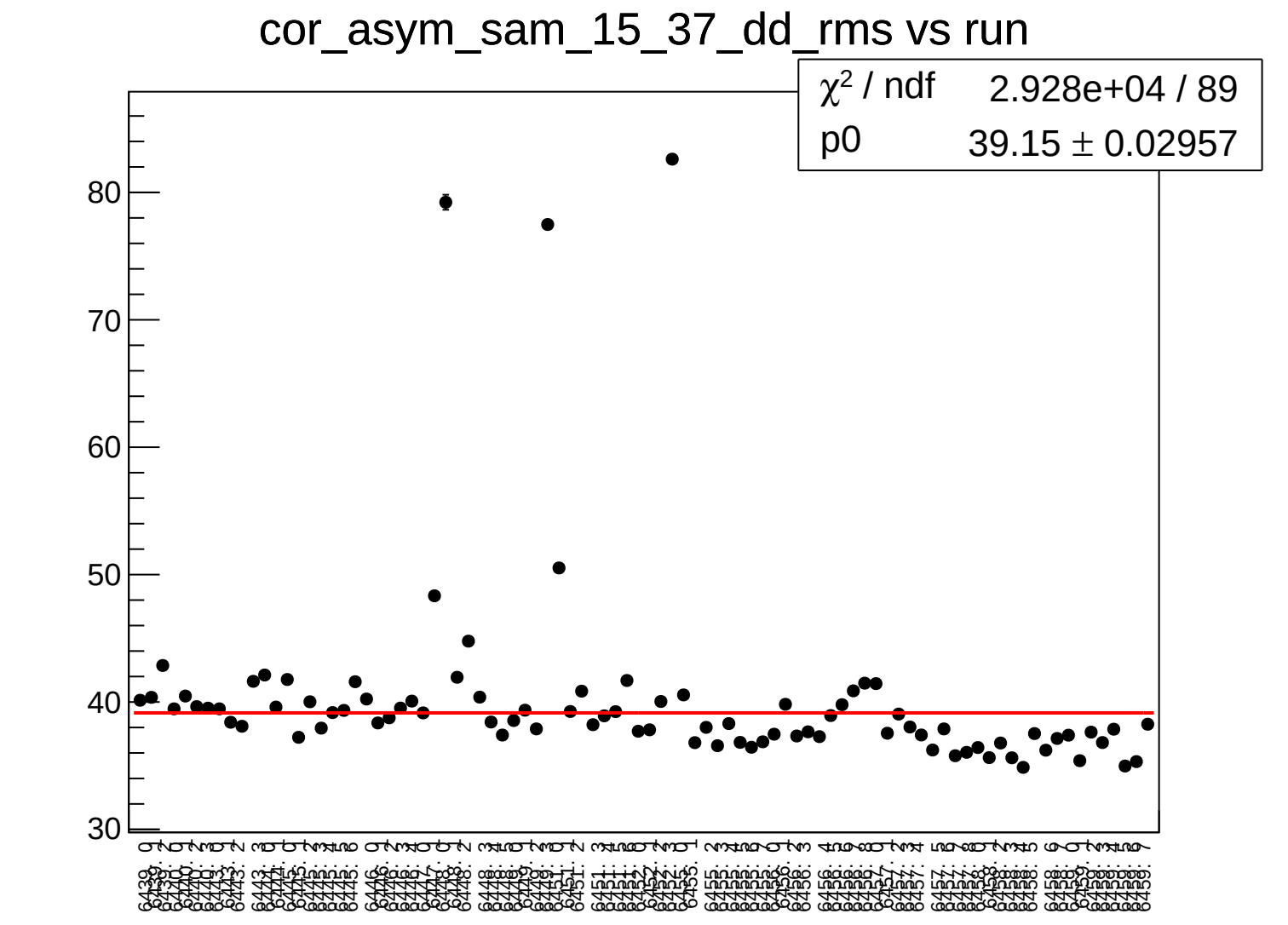

asym_sam_15_37_dd_reg_correction_mean vs run
χ² / ndf 69.6 / 89
p0 1196 ± 433.5
15000
10000
5000
0
−5000
−10000
pull
Entries 90
Mean 138.5
Std Dev 67.58
2
1
0
−1
−2

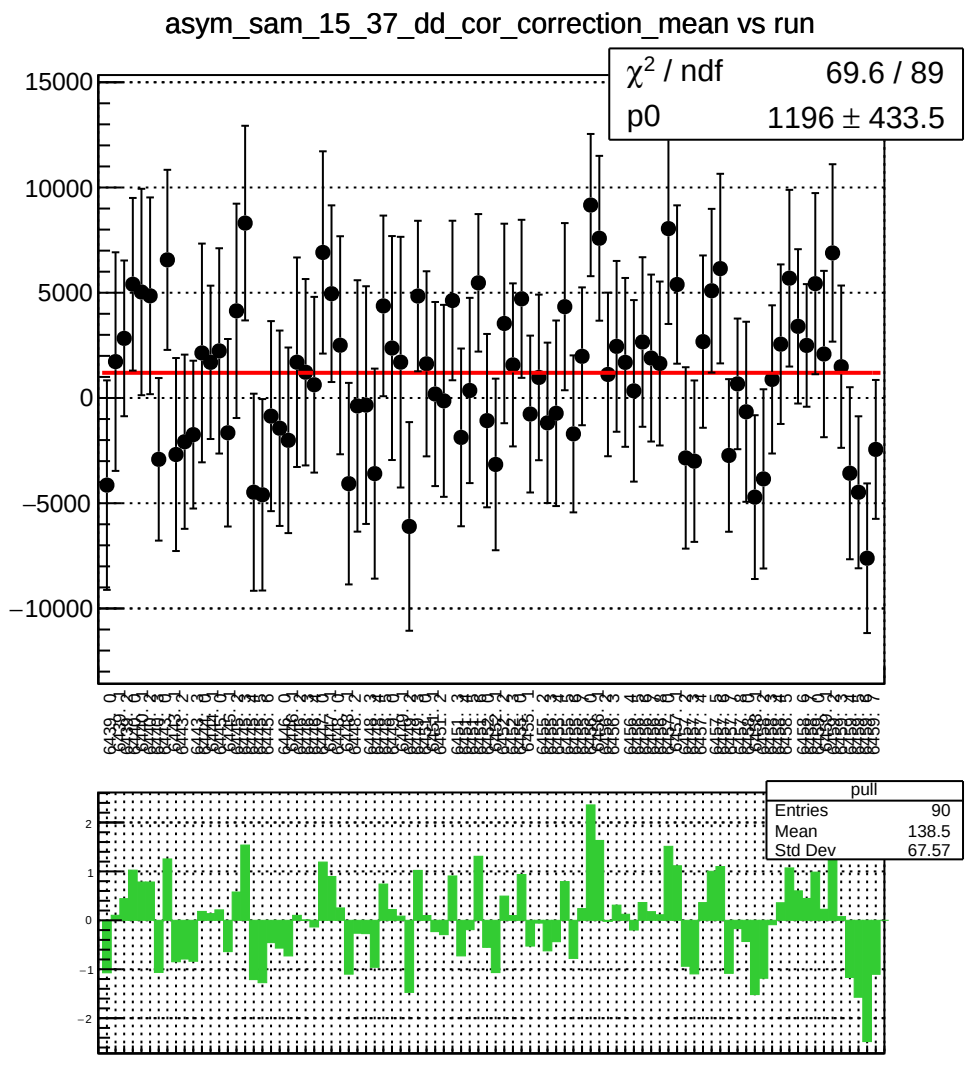

pull1D
Entries 90
Mean −0.005728
Std Dev 0.8794
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

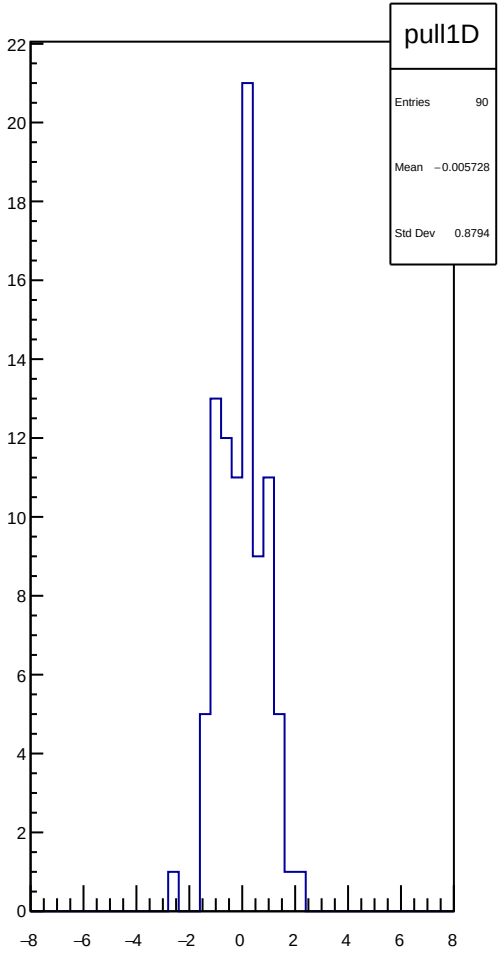

asym_sam_15_37_dd_reg_correction_rms vs run
χ² / ndf 2.635e+04 / 89
p0 406.2 ± 0.3065
550
500
450
400
350
300

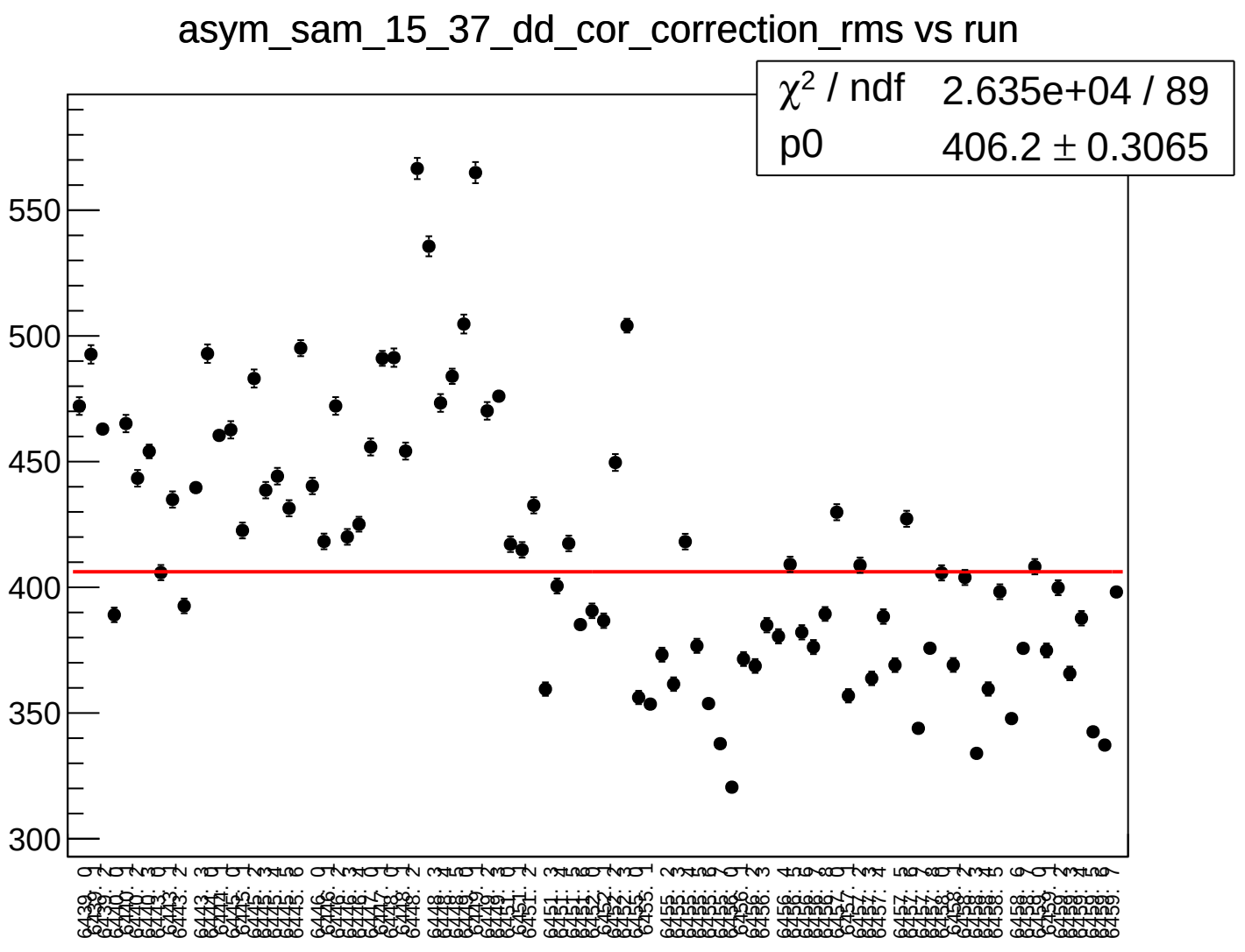

cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 104.7 / 89
p0 39.33 ± 41.82
pull
Entries 90
Mean 194.6
Std Dev 0

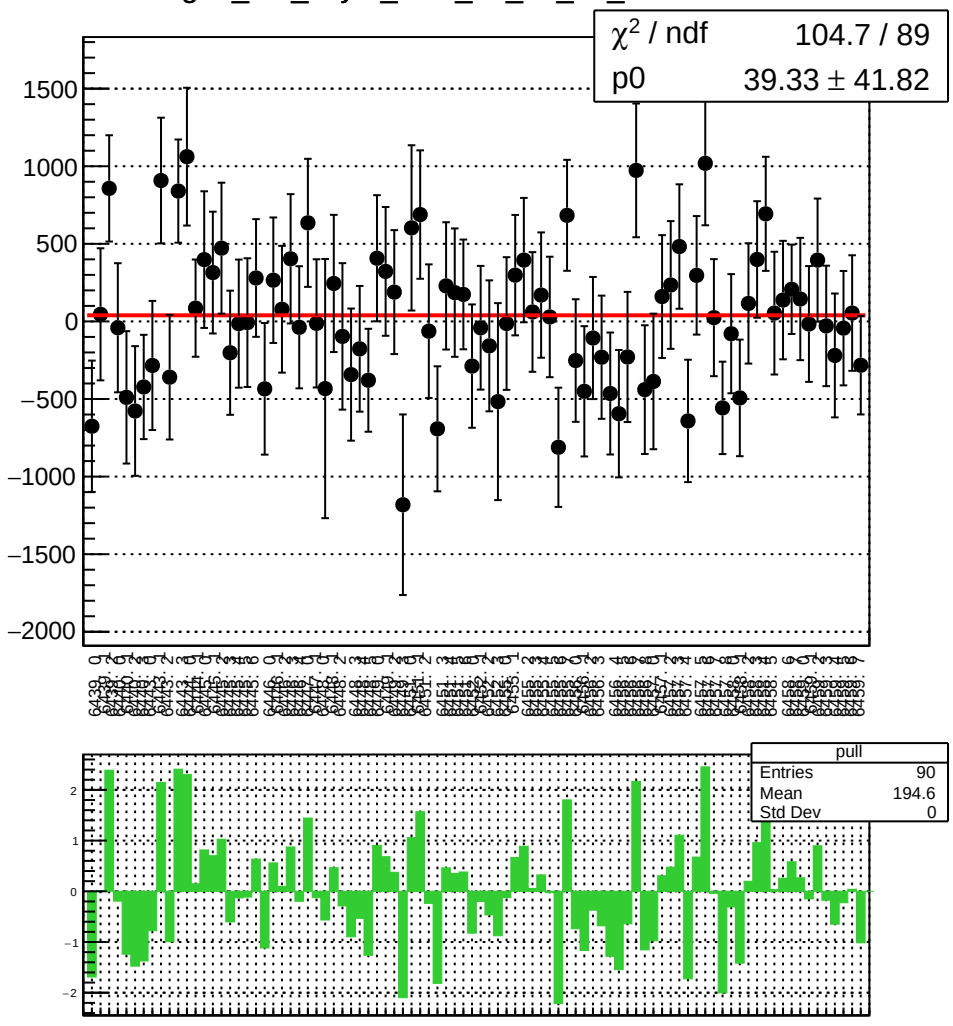

pull1D
Entries 90
Mean −0.01076
Std Dev 1.079

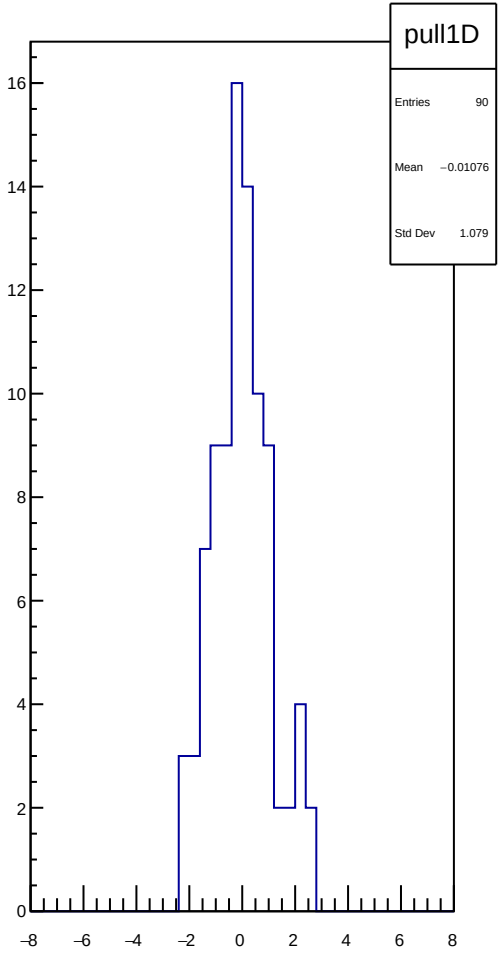

cor_asym_sam_15_37_dd_rms vs run
χ^2 / ndf 2.928e+04 / 89
p0 39.15 ± 0.02957
80
70
60
50
40
30

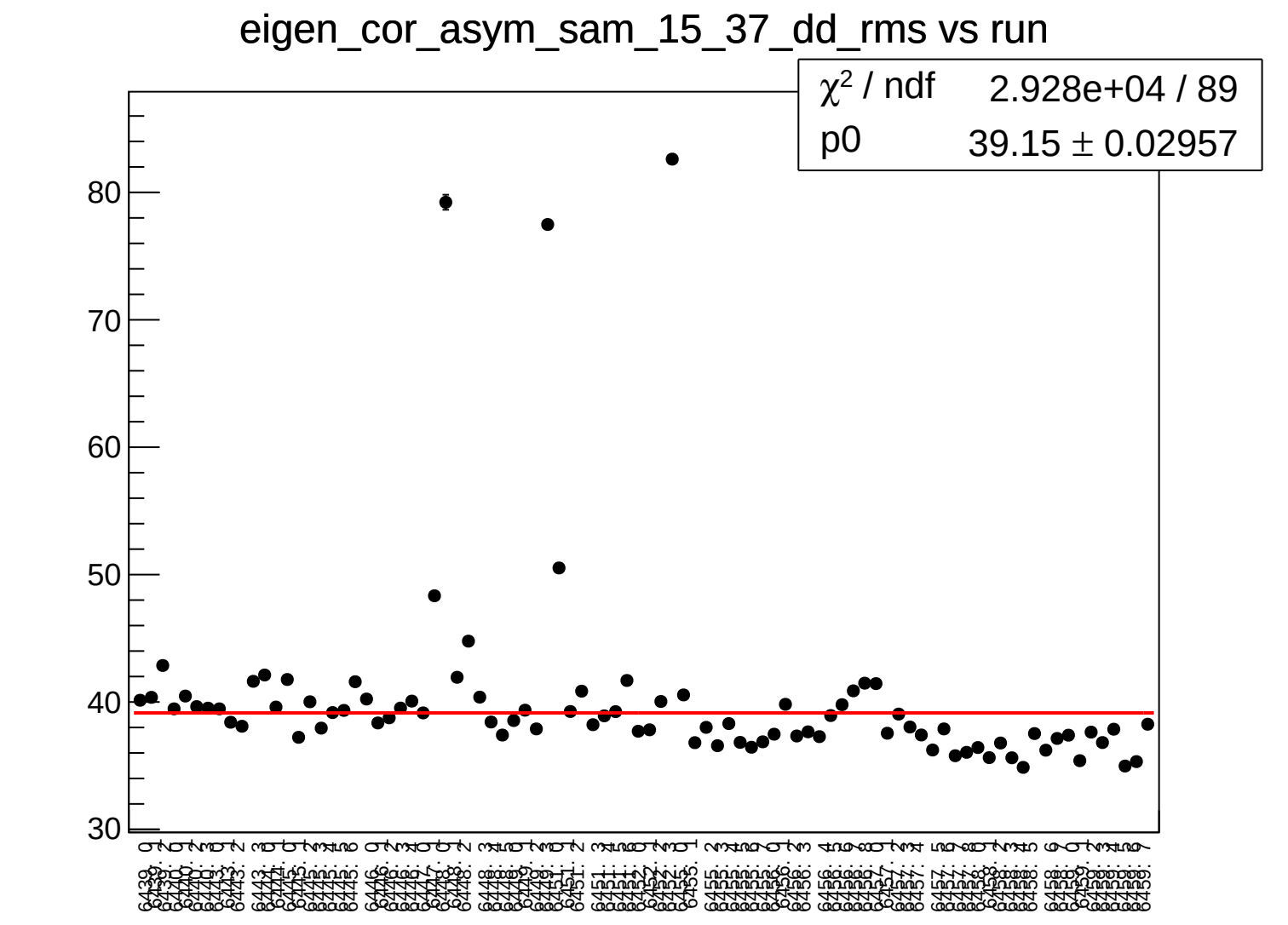

asym_sam_15_37_dd_cor_correction_mean vs run
χ² / ndf 69.6 / 89
p0 1196 ± 433.5
15000
10000
5000
0
−5000
−10000
pull
Entries 90
Mean 138.5
Std Dev 67.57
2
1
0
−1
−2

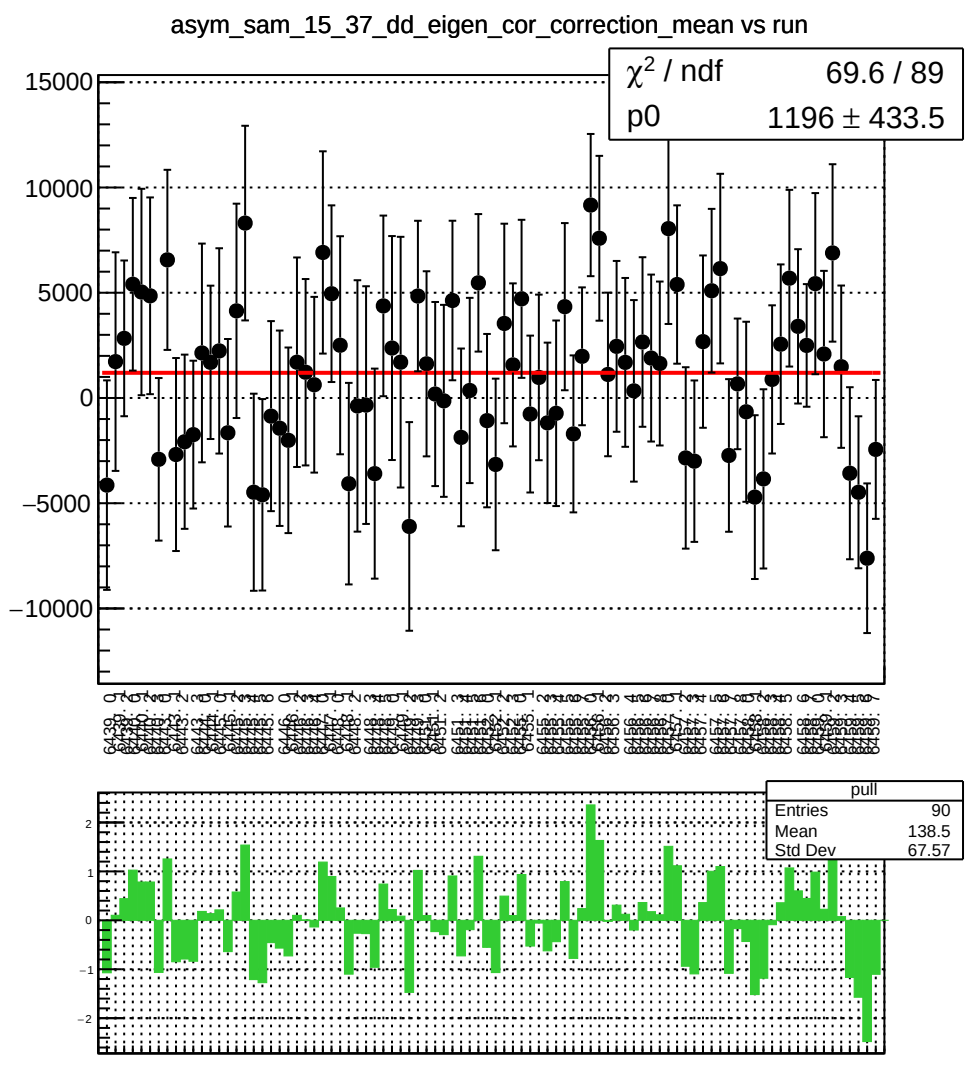

pull1D
Entries 90
Mean −0.005728
Std Dev 0.8794
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

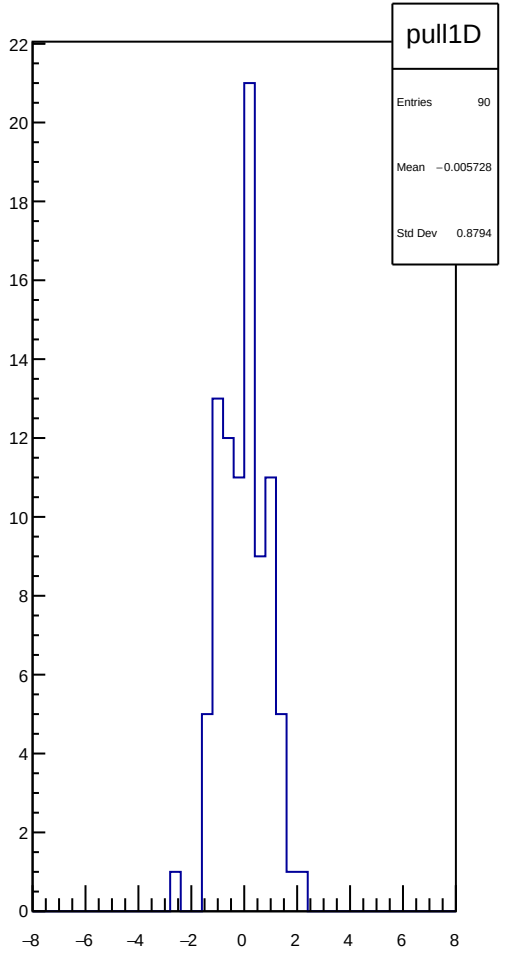

asym_sam_15_37_dd_cor_correction_rms vs run
χ² / ndf 2.635e+04 / 89
p0 406.2 ± 0.3065
550
500
450
400
350
300

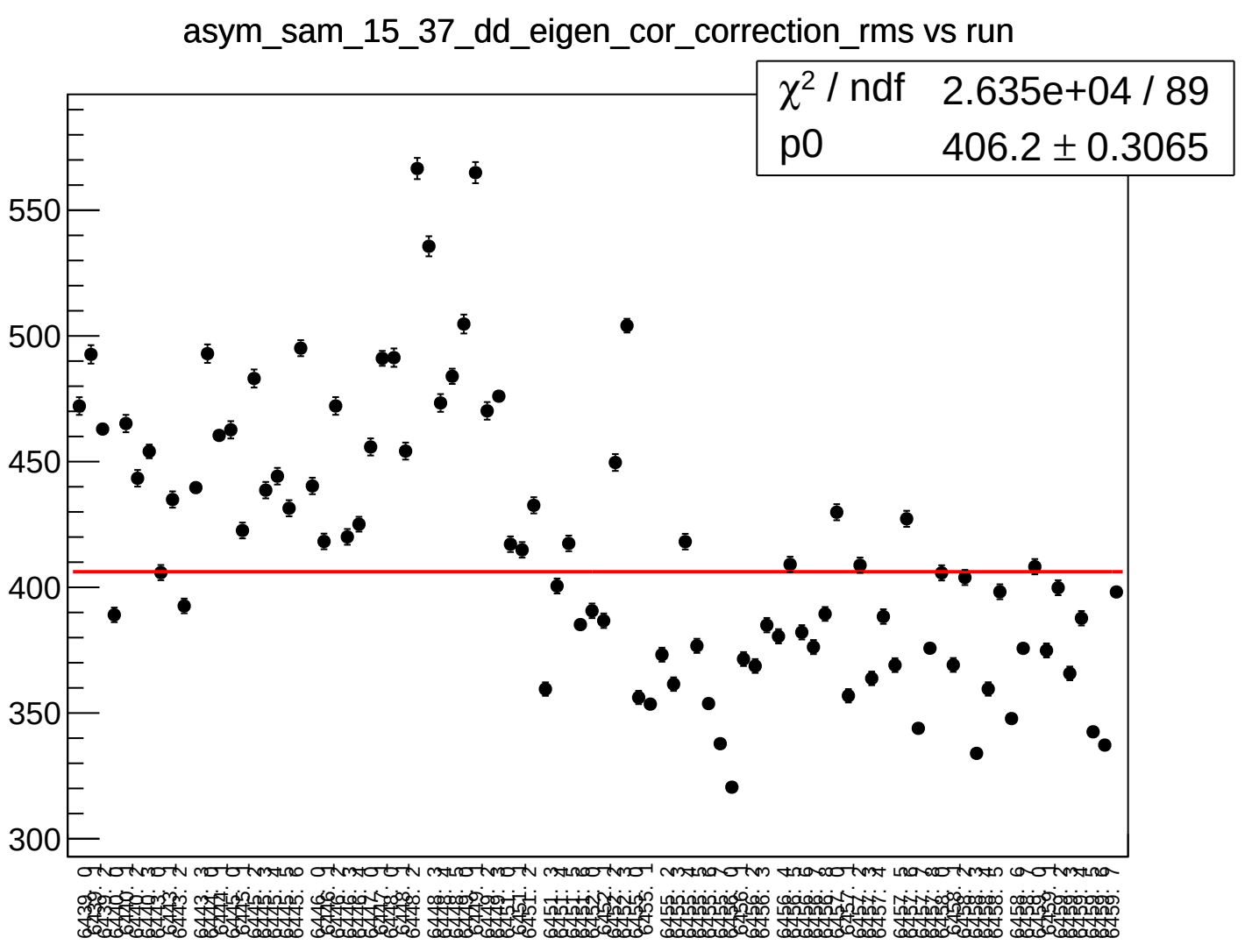

eigen_cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 104.7 / 89
p0 39.33 ± 41.82
pull
Entries 90
Mean 194.6
Std Dev 0

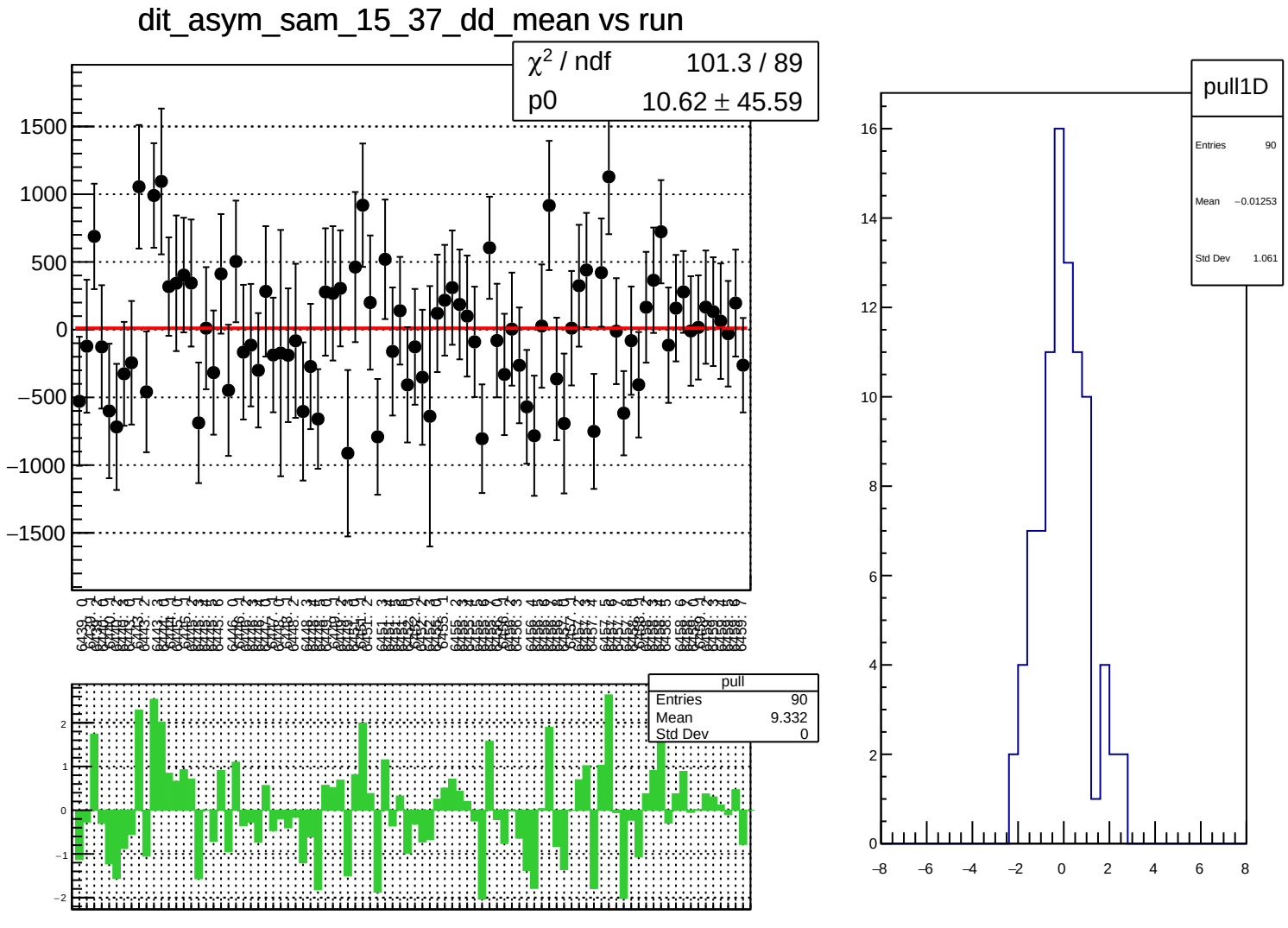

pull1D
Entries 90
Mean −0.01076
Std Dev 1.079

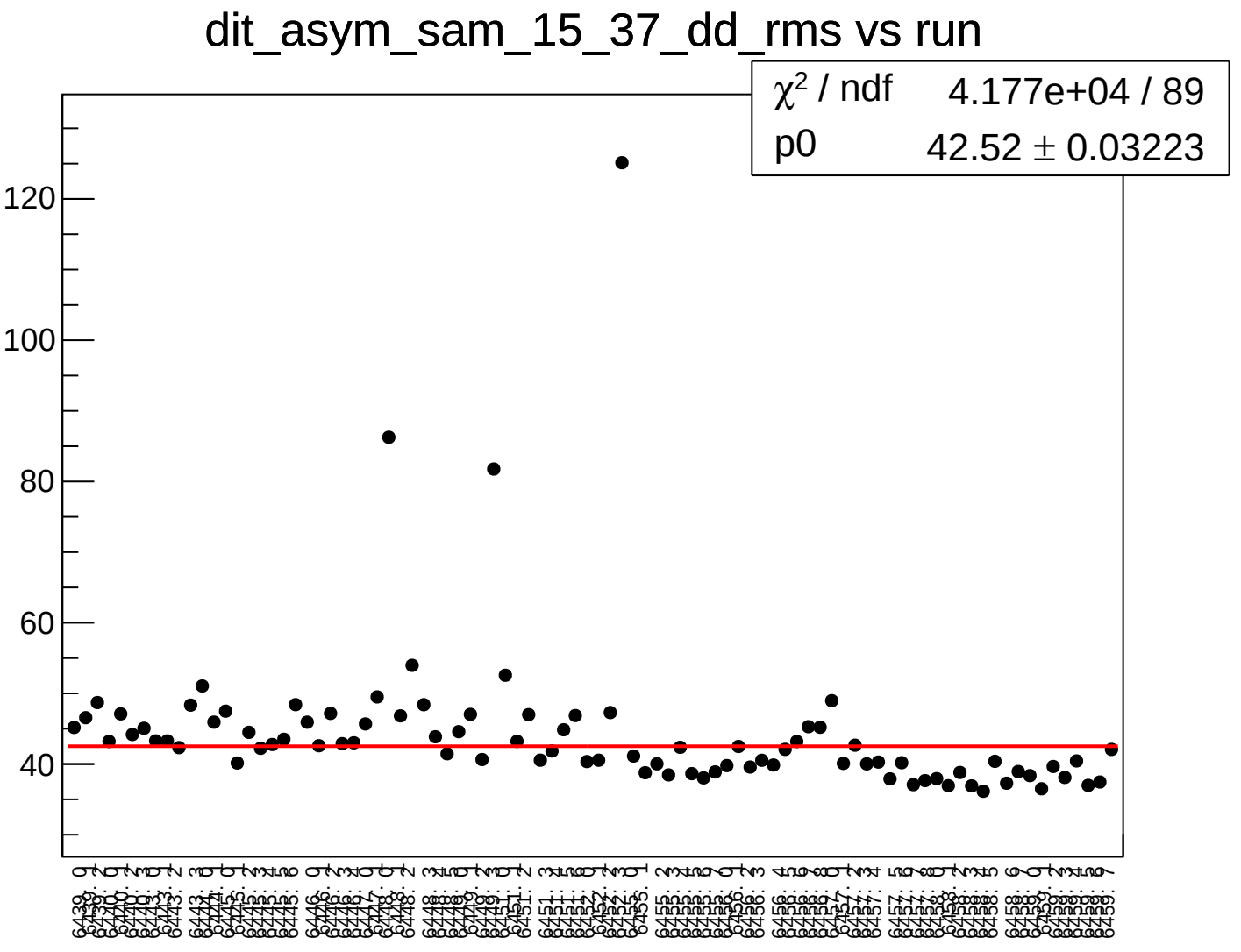

eigen_cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 2.928e+04 / 89
p0 39.15 ± 0.02957
80
70
60
50
40
30

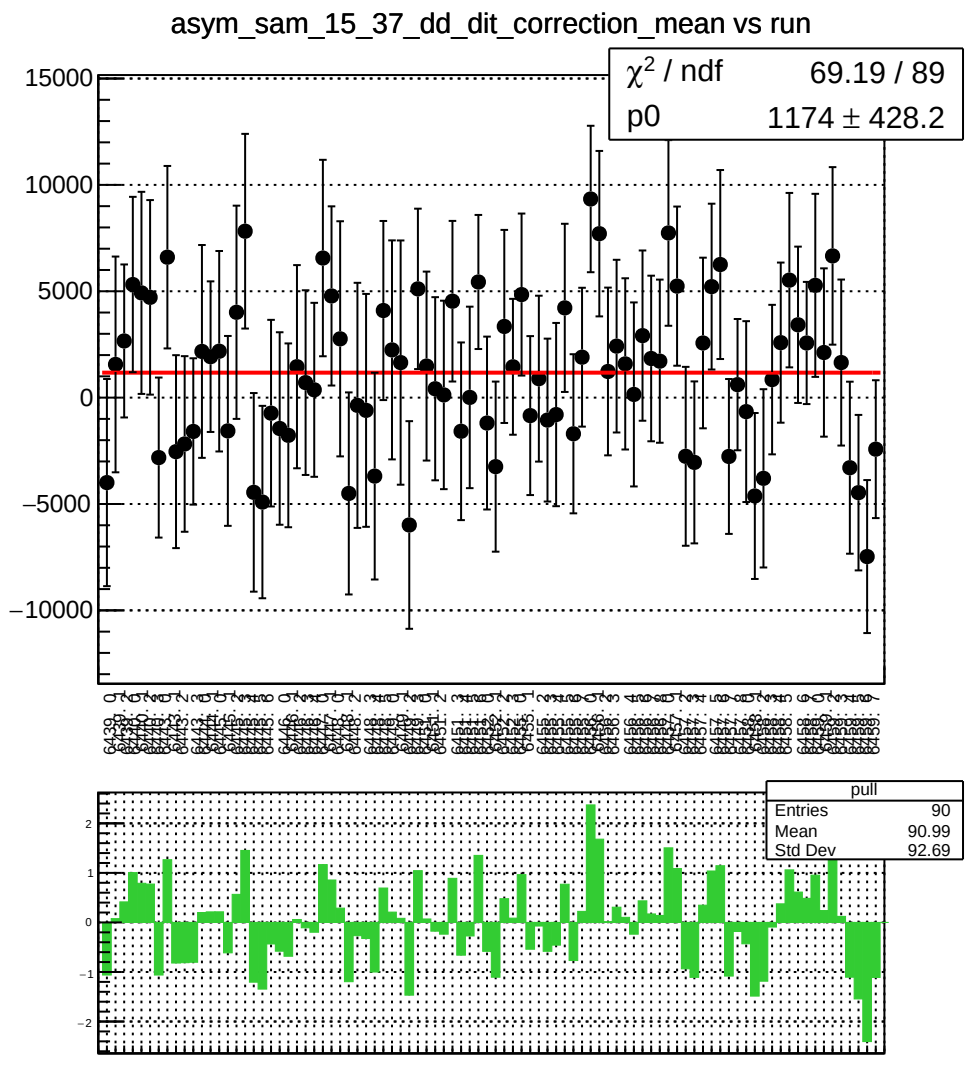

asym_sam_15_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 69.6 / 89
p0 1196 ± 433.5
15000
10000
5000
0
−5000
−10000
pull
Entries 90
Mean 138.5
Std Dev 67.57
2
1
0
−1
−2

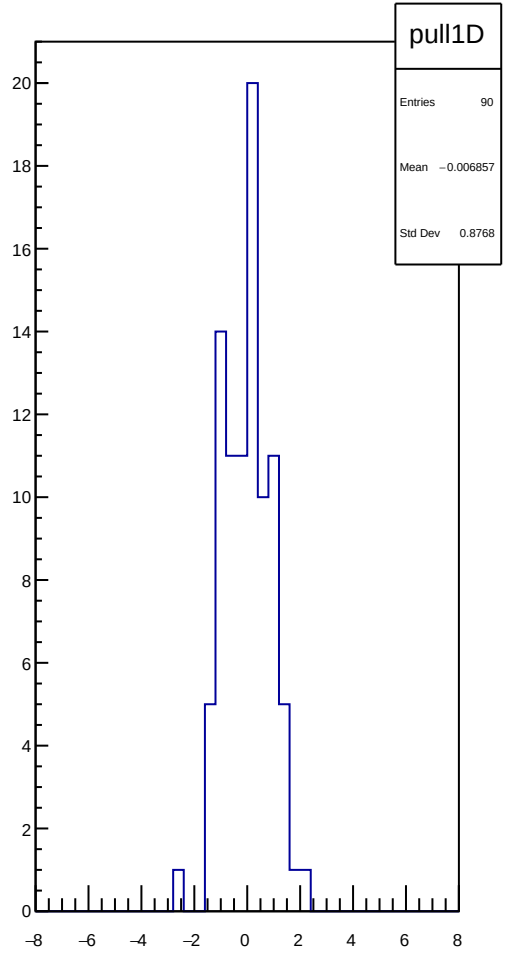

pull1D
Entries 90
Mean −0.005728
Std Dev 0.8794
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

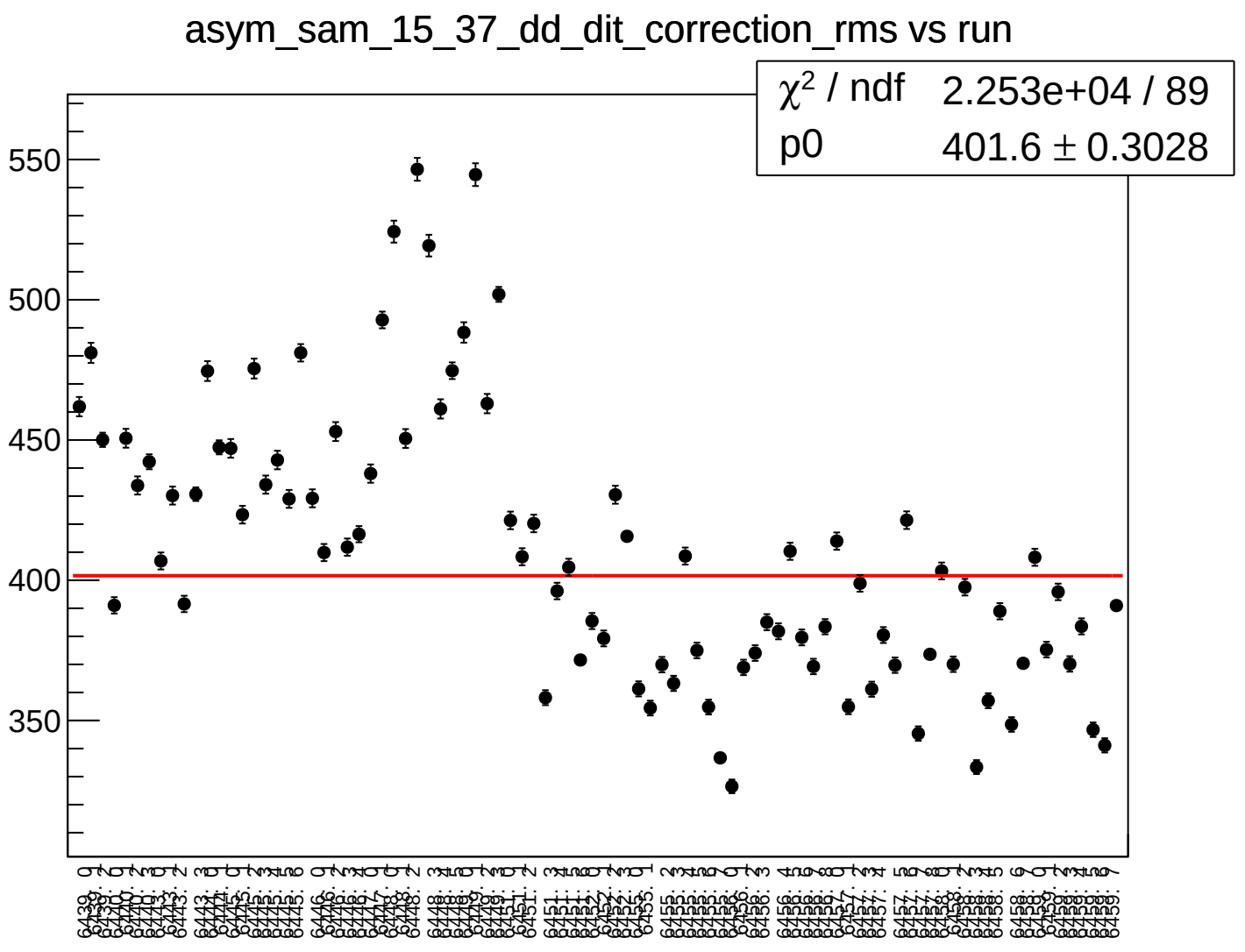

asym_sam_15_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.635e+04 / 89
p0 406.2 ± 0.3065
550
500
450
400
350
300

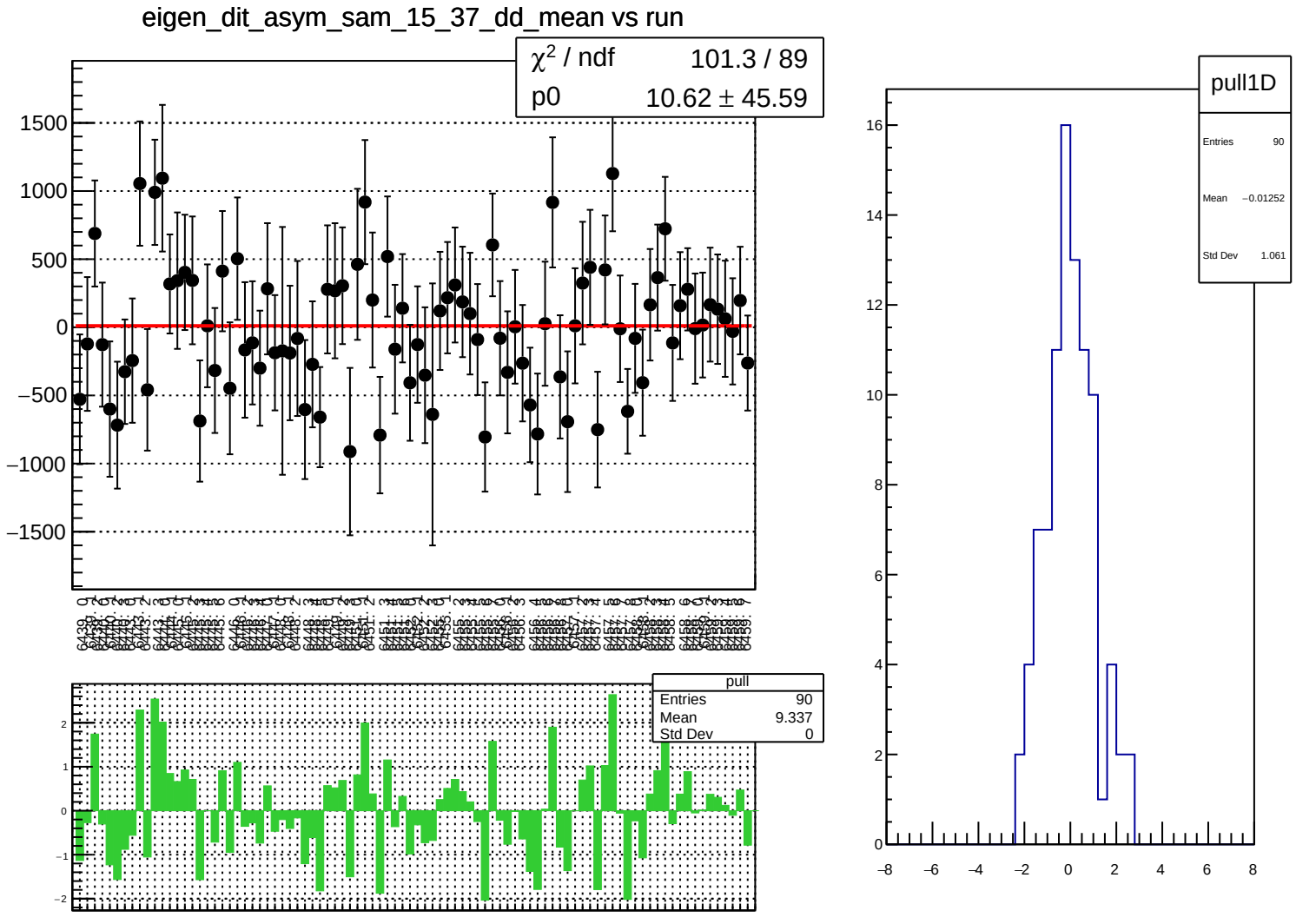

dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 101.3 / 89
p0 10.62 ± 45.59
1500
1000
500
0
−500
−1000
−1500
pull
Entries 90
Mean 9.332
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.01253
Std Dev 1.061
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

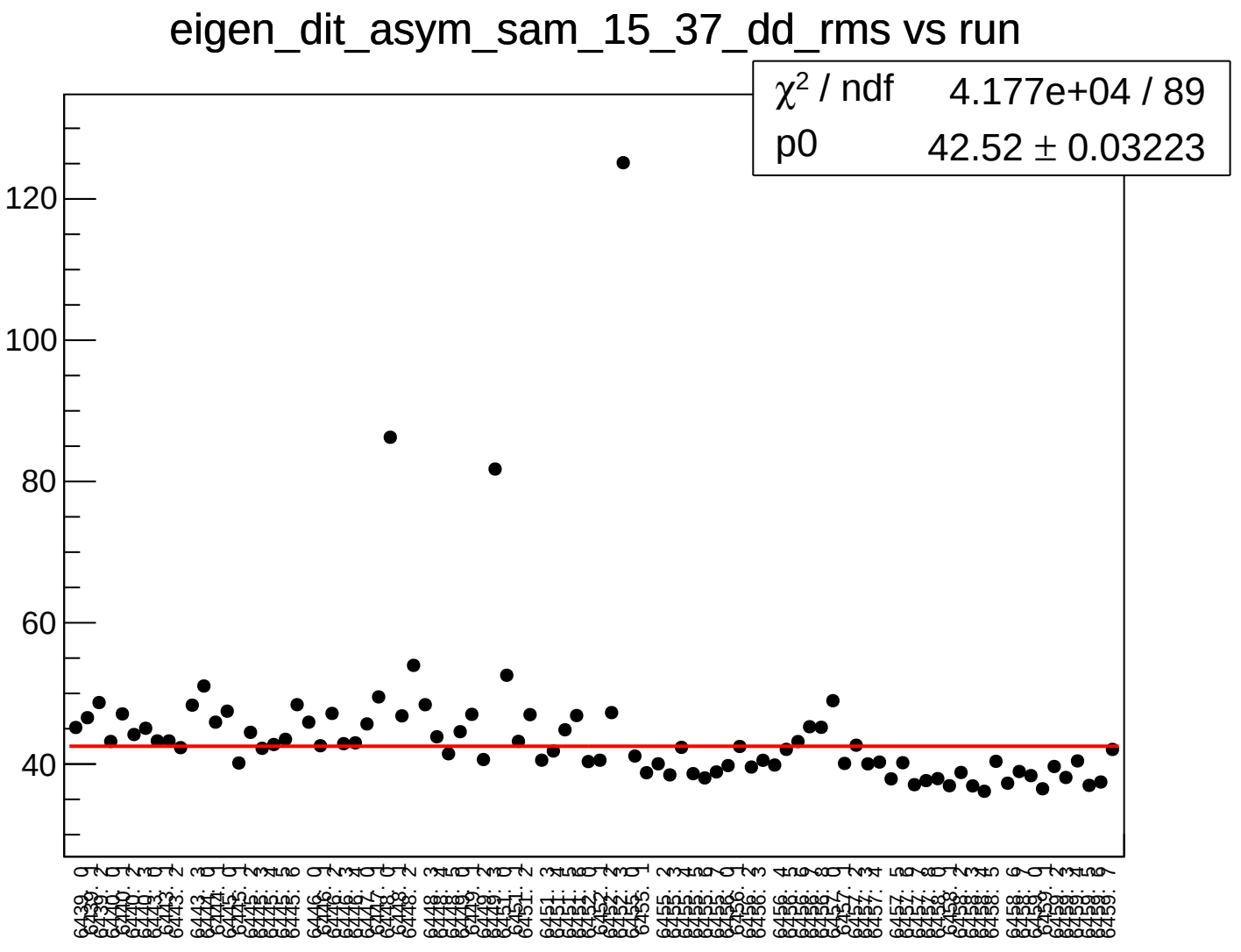

dit_asym_sam_15_37_dd_rms vs run
χ^2 / ndf 4.177e+04 / 89
p0 42.52 ± 0.03223
120
100
80
60
40

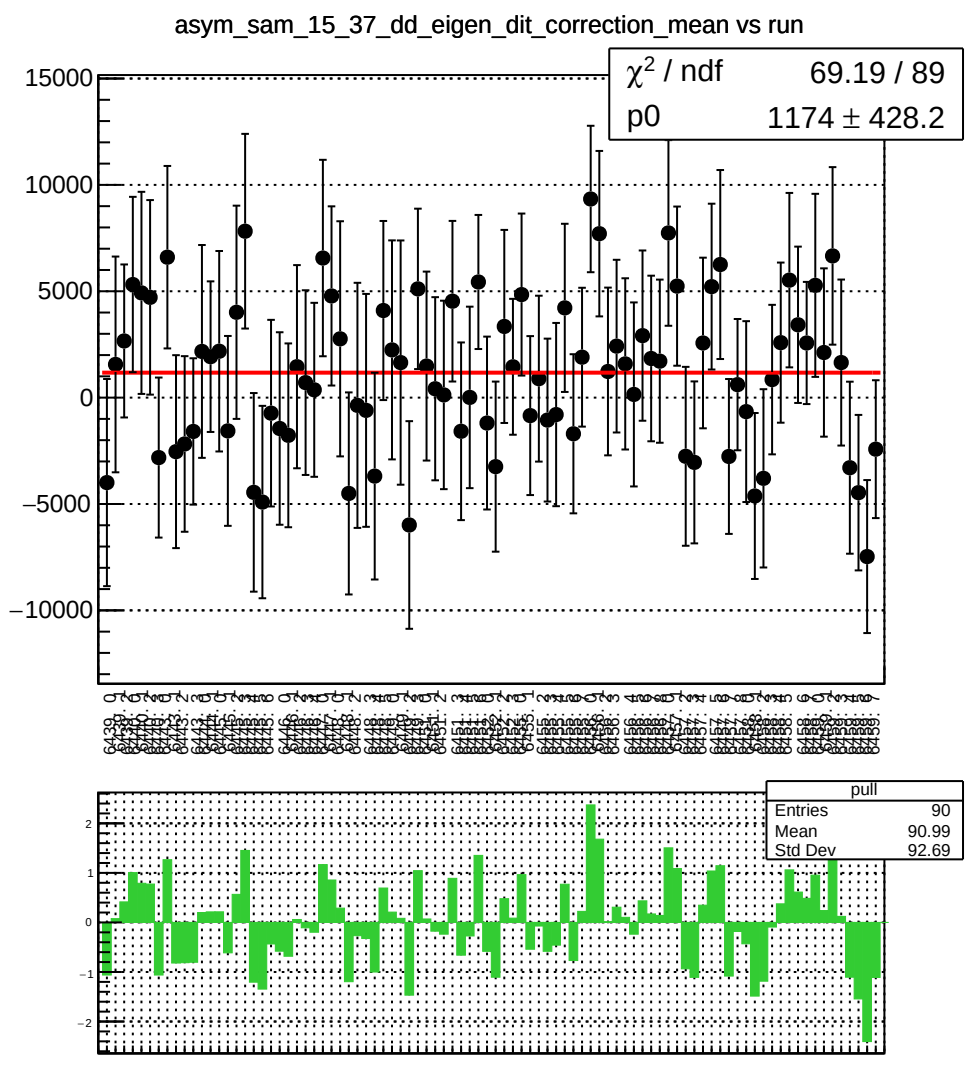

asym_sam_15_37_dd_dit_correction_mean vs run
χ² / ndf 69.19 / 89
p0 1174 ± 428.2
15000
10000
5000
0
−5000
−10000
pull
Entries 90
Mean 90.99
Std Dev 92.69
2
1
0
−1
−2

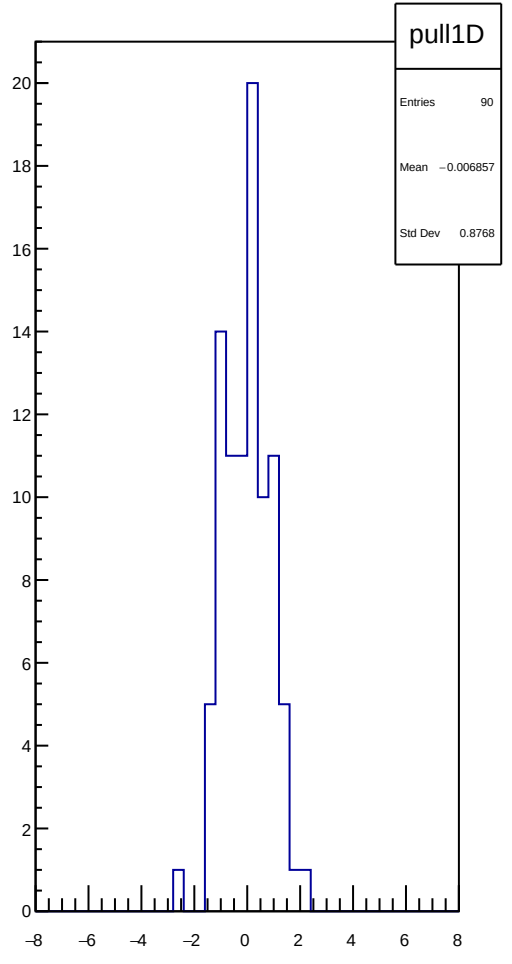

pull1D
Entries 90
Mean −0.006857
Std Dev 0.8768
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

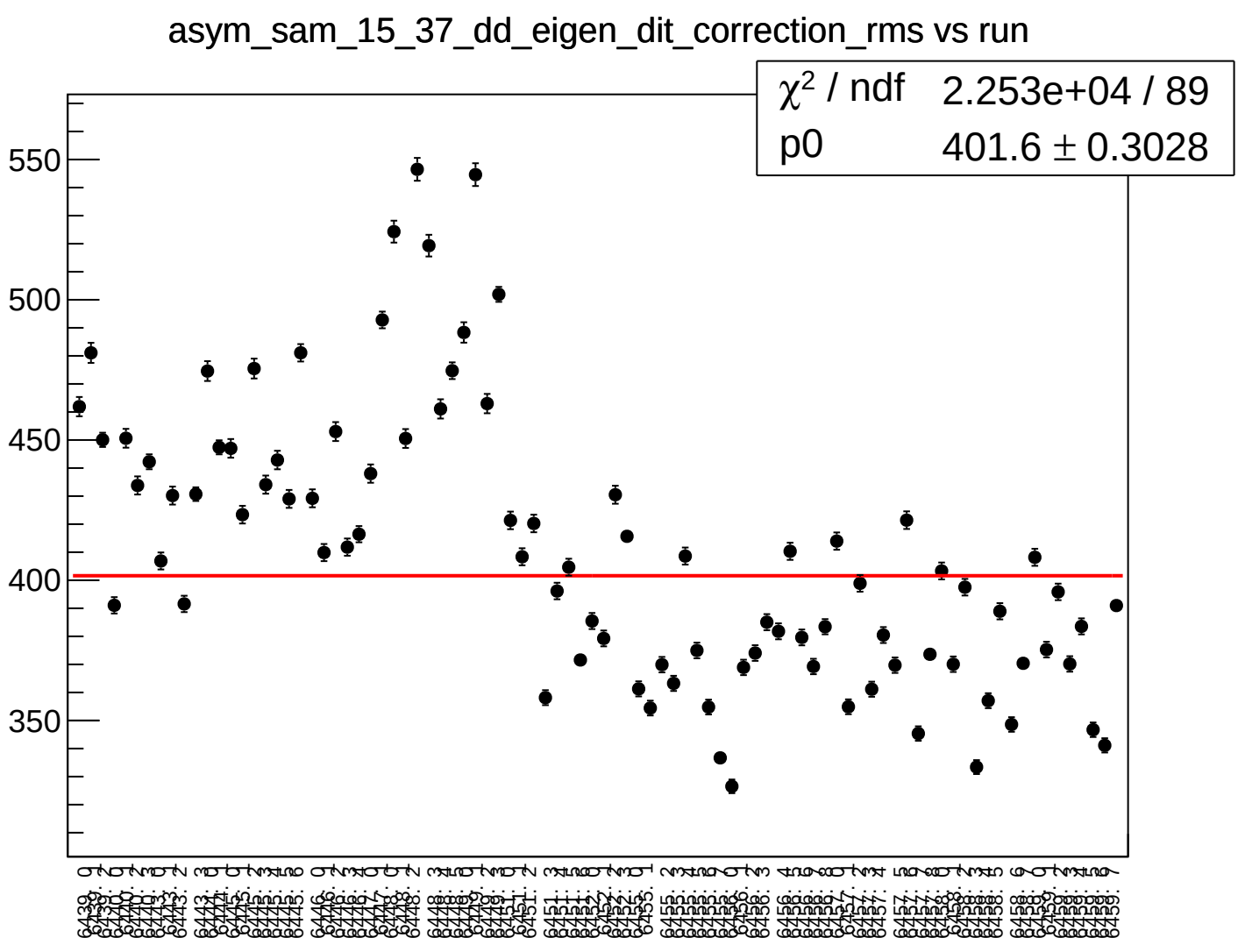

asym_sam_15_37_dd_dit_correction_rms vs run
χ² / ndf 2.253e+04 / 89
p0 401.6 ± 0.3028
550
500
450
400
350

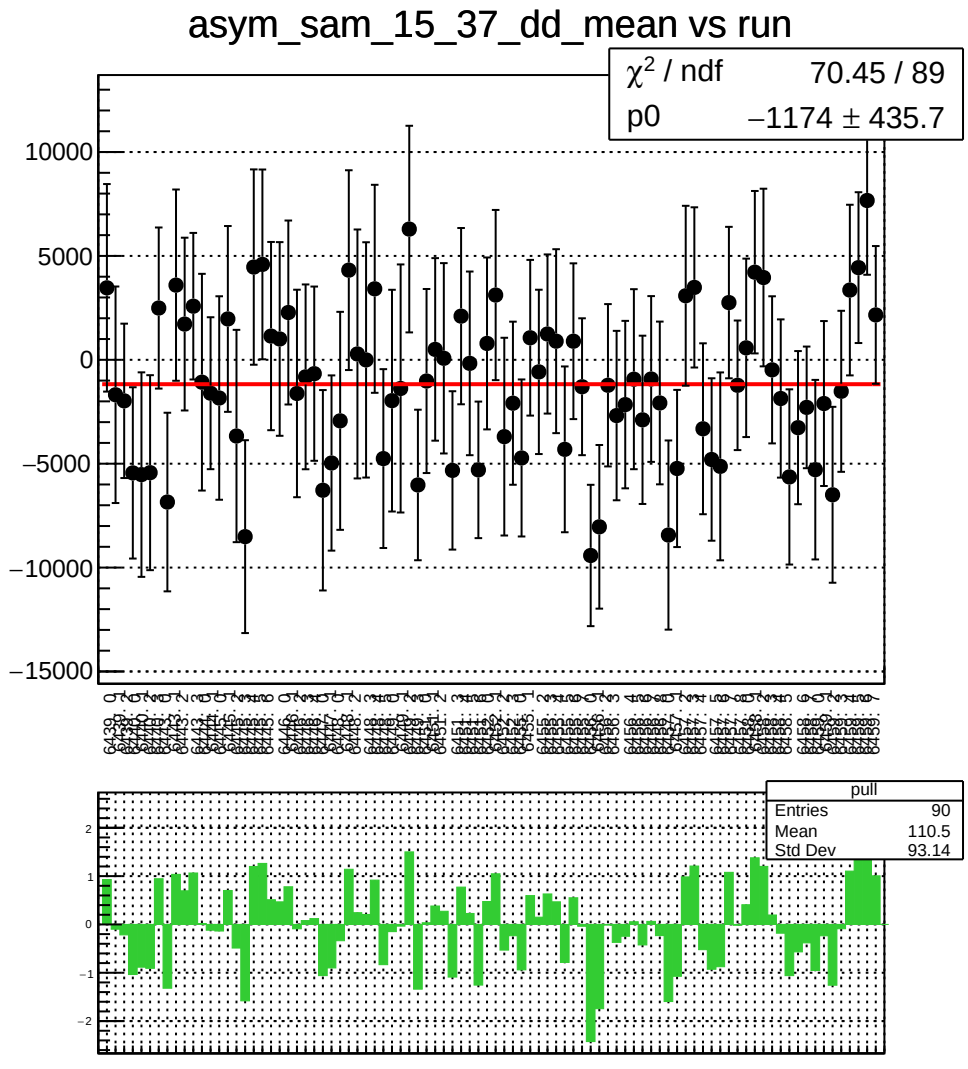

eigen_dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 101.3 / 89
p0 10.62 ± 45.59
1500
1000
500
0
−500
−1000
−1500
pull
Entries 90
Mean 9.337
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.01252
Std Dev 1.061
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

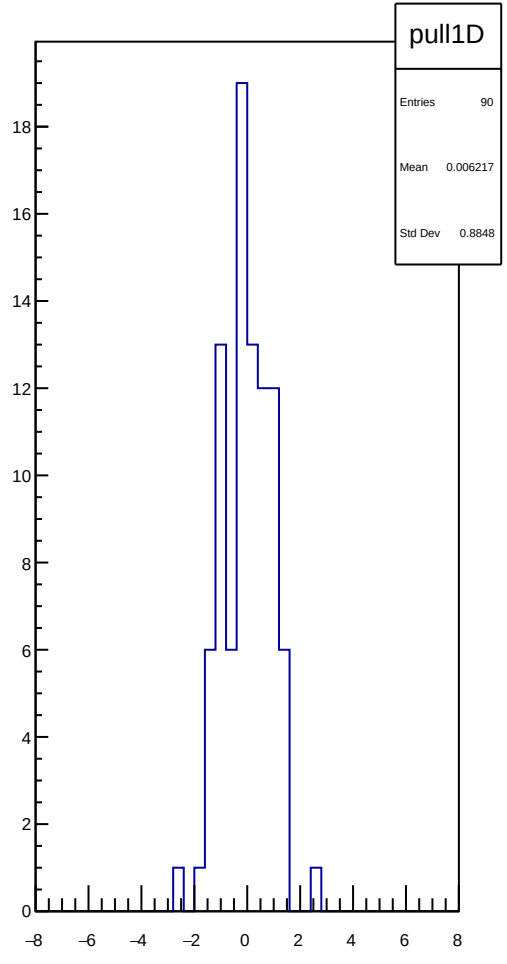

eigen_dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 4.177e+04 / 89
p0 42.52 ± 0.03223
120
100
80
60
40

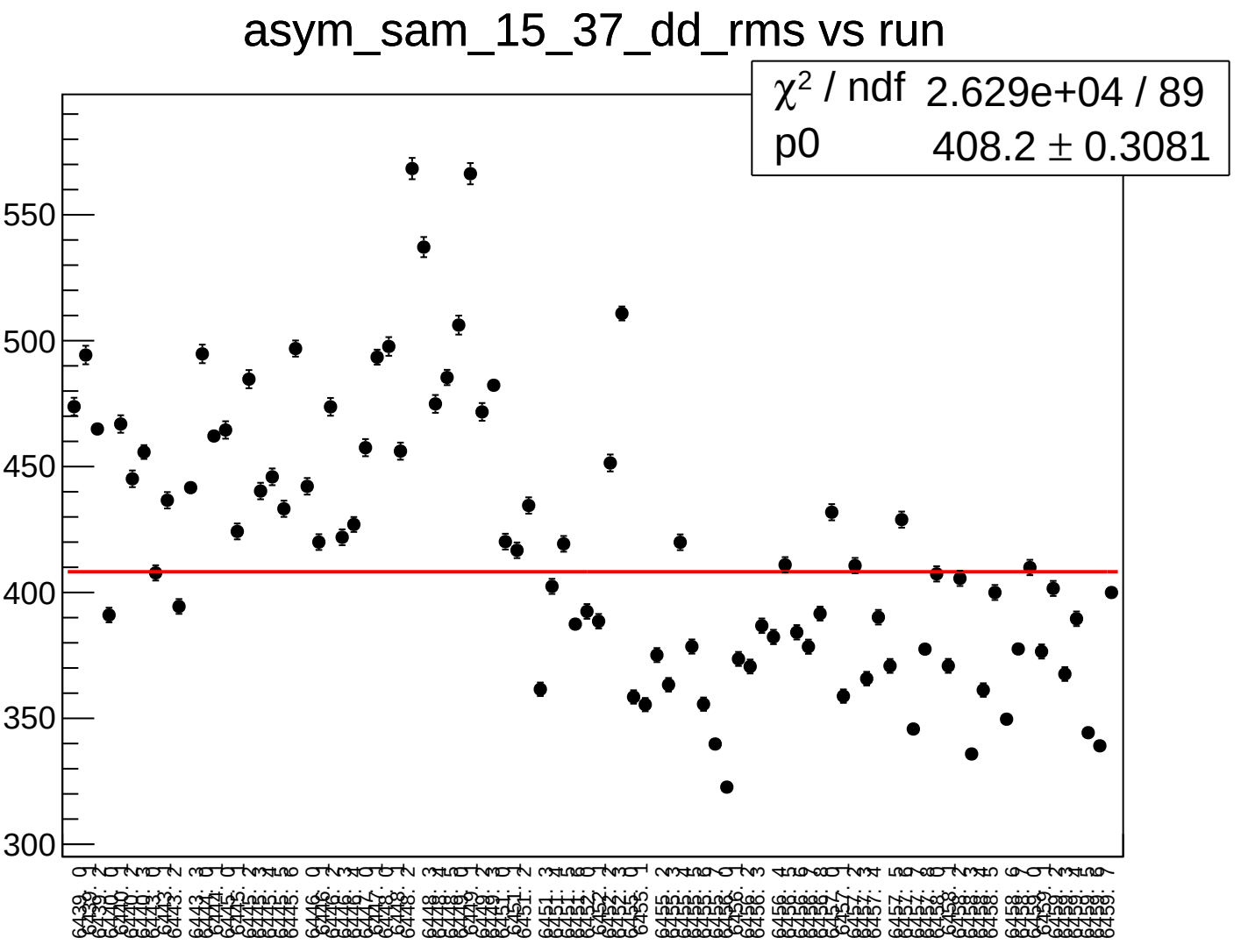

asym_sam_15_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 69.19 / 89
p0 1174 ± 428.2
15000
10000
5000
0
−5000
−10000
pull
Entries 90
Mean 90.99
Std Dev 92.69
2
1
0
−1
−2

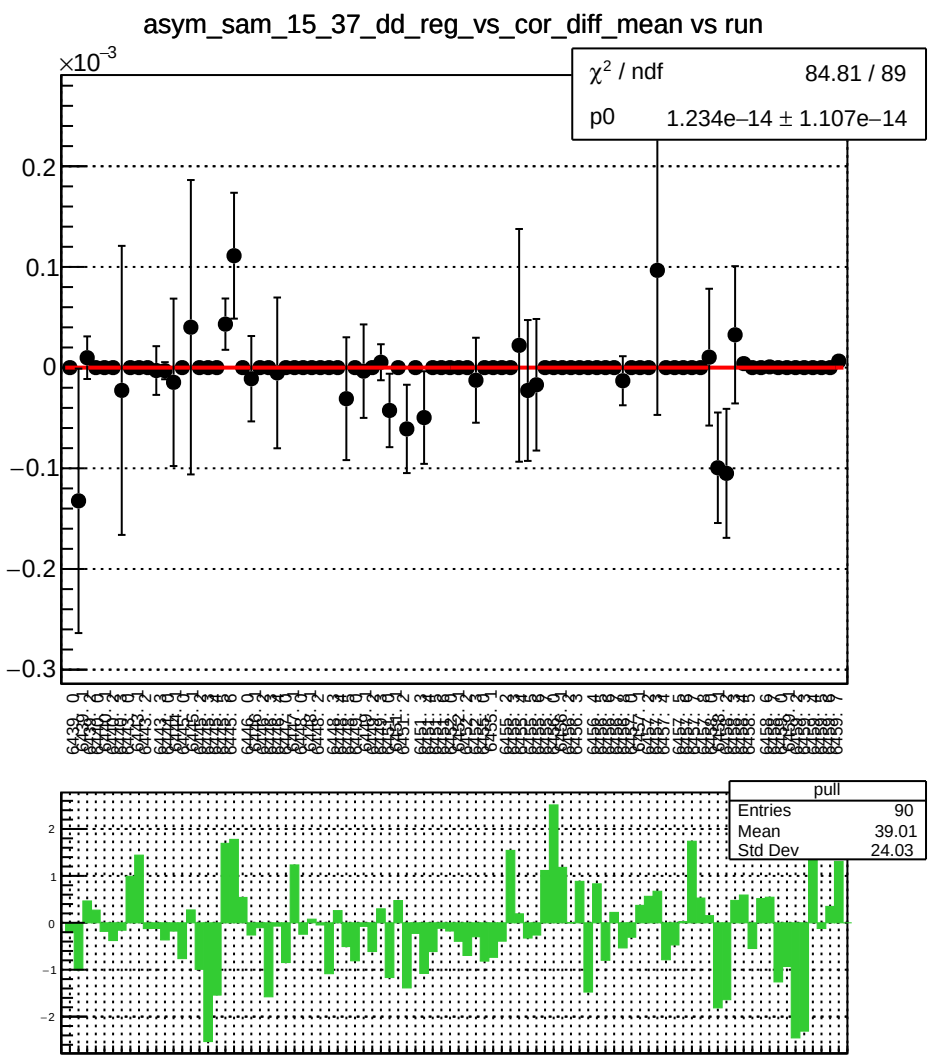

pull1D
Entries 90
Mean −0.006857
Std Dev 0.8768
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

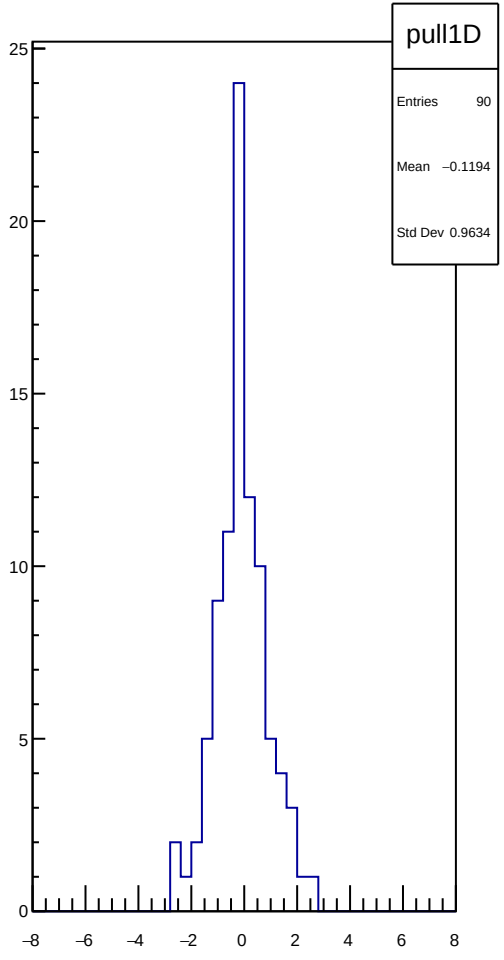

asym_sam_15_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.253e+04 / 89
p0 401.6 ± 0.3028
550
500
450
400
350

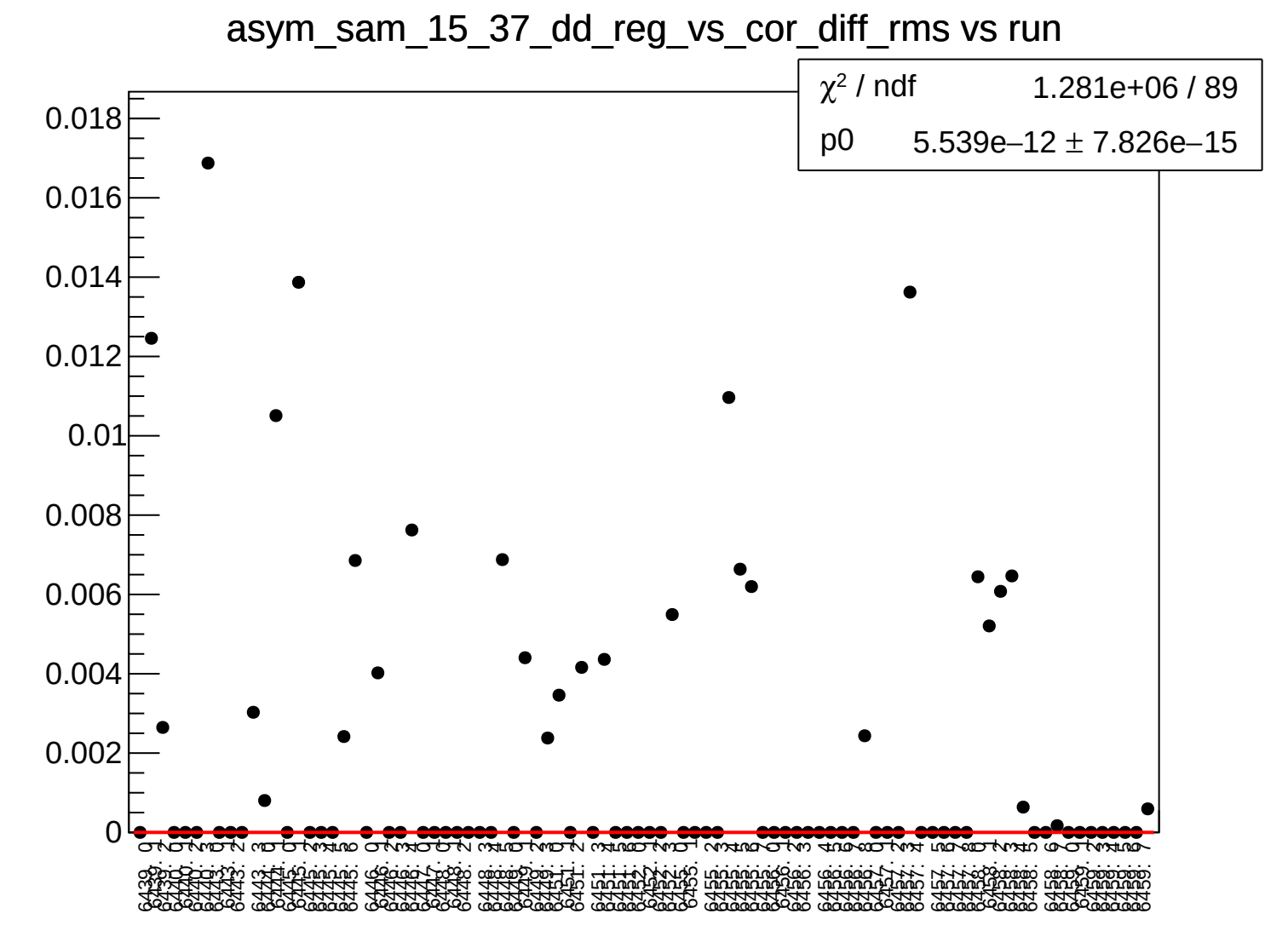

asym_sam_15_37_dd_mean vs run
χ² / ndf 70.45 / 89
p0 −1174 ± 435.7
10000
5000
0
−5000
−10000
−15000
pull
Entries 90
Mean 110.5
Std Dev 93.14
2
1
0
−1
−2

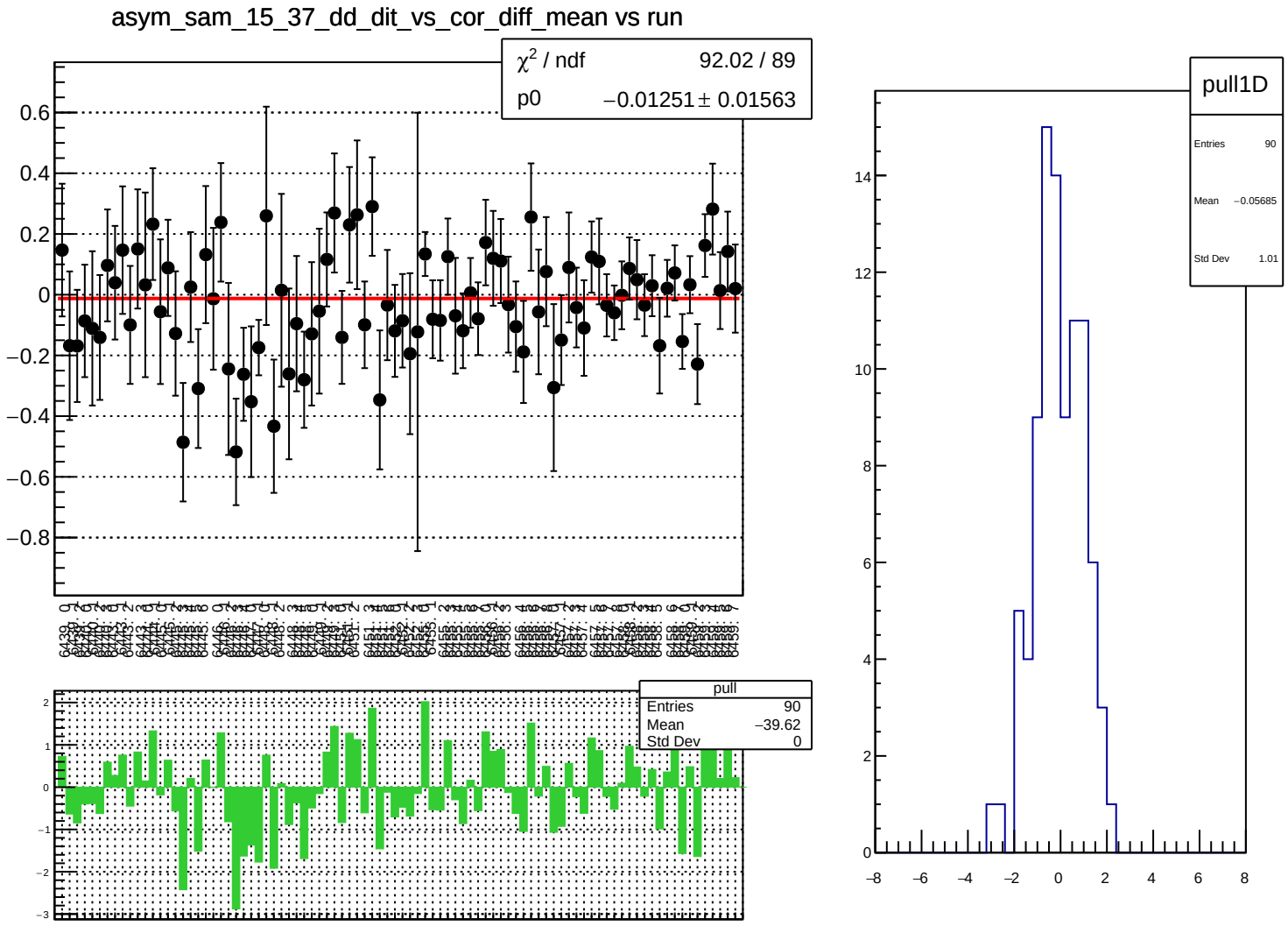

pull1D
Entries 90
Mean 0.006217
Std Dev 0.8848
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

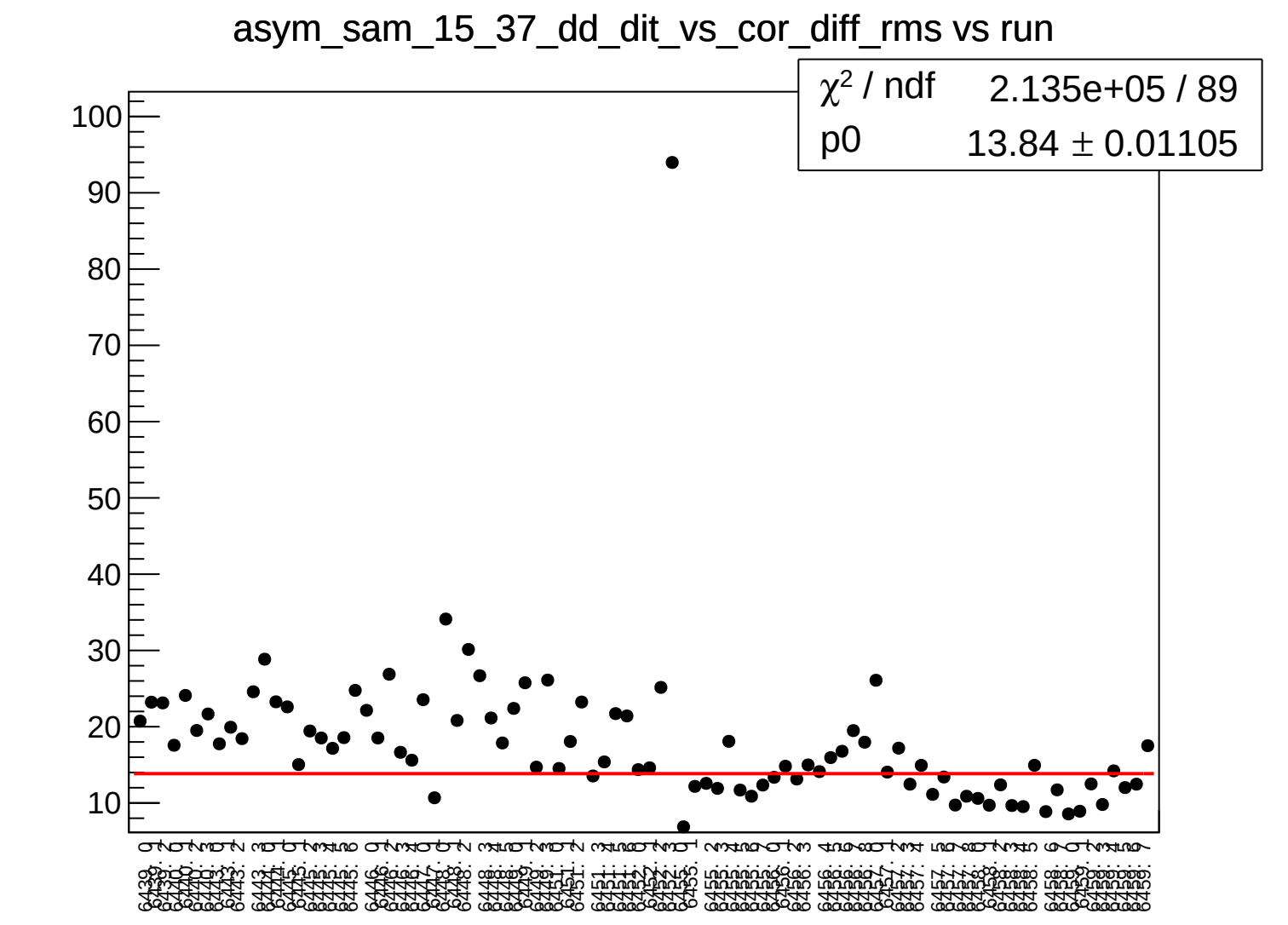

asym_sam_15_37_dd_rms vs run
χ² / ndf 2.629e+04 / 89
p0 408.2 ± 0.3081
550
500
450
400
350
300

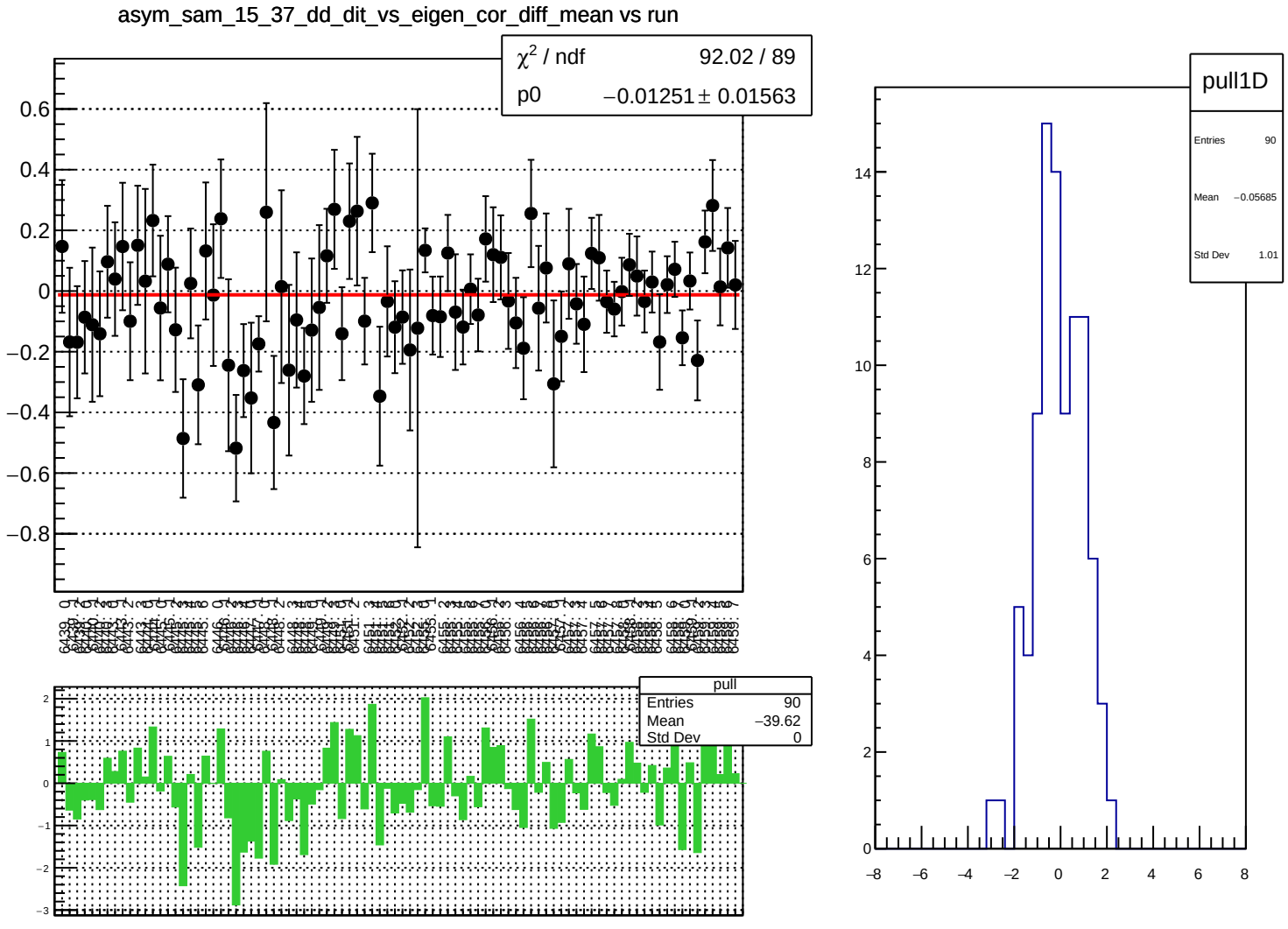

asym_sam_15_37_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 84.81 / 89
p0 1.234e−14 ± 1.107e−14
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 90
Mean 39.01
Std Dev 24.03
2
1
0
−1
−2

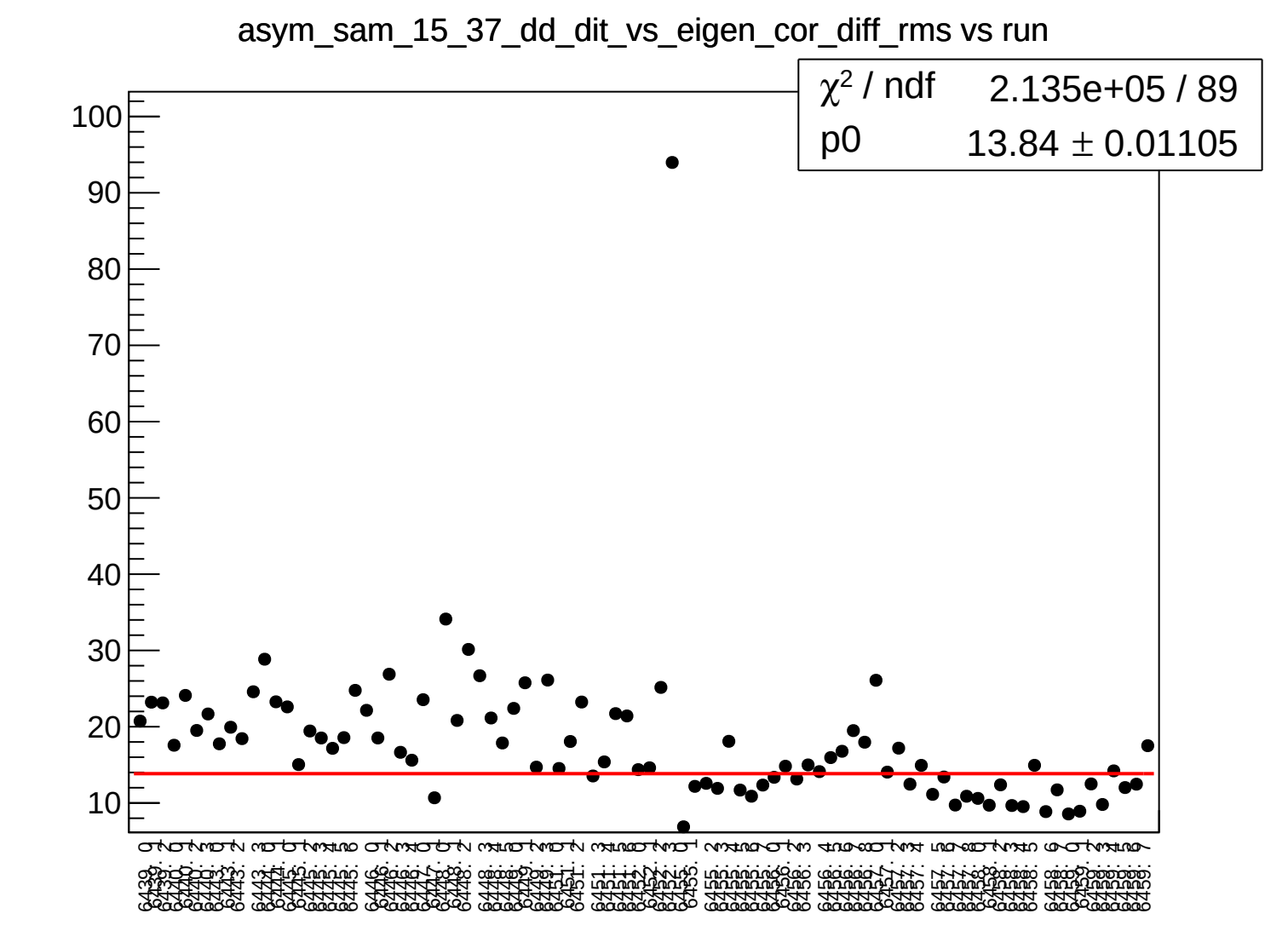

pull1D
Entries 90
Mean −0.1194
Std Dev 0.9634
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

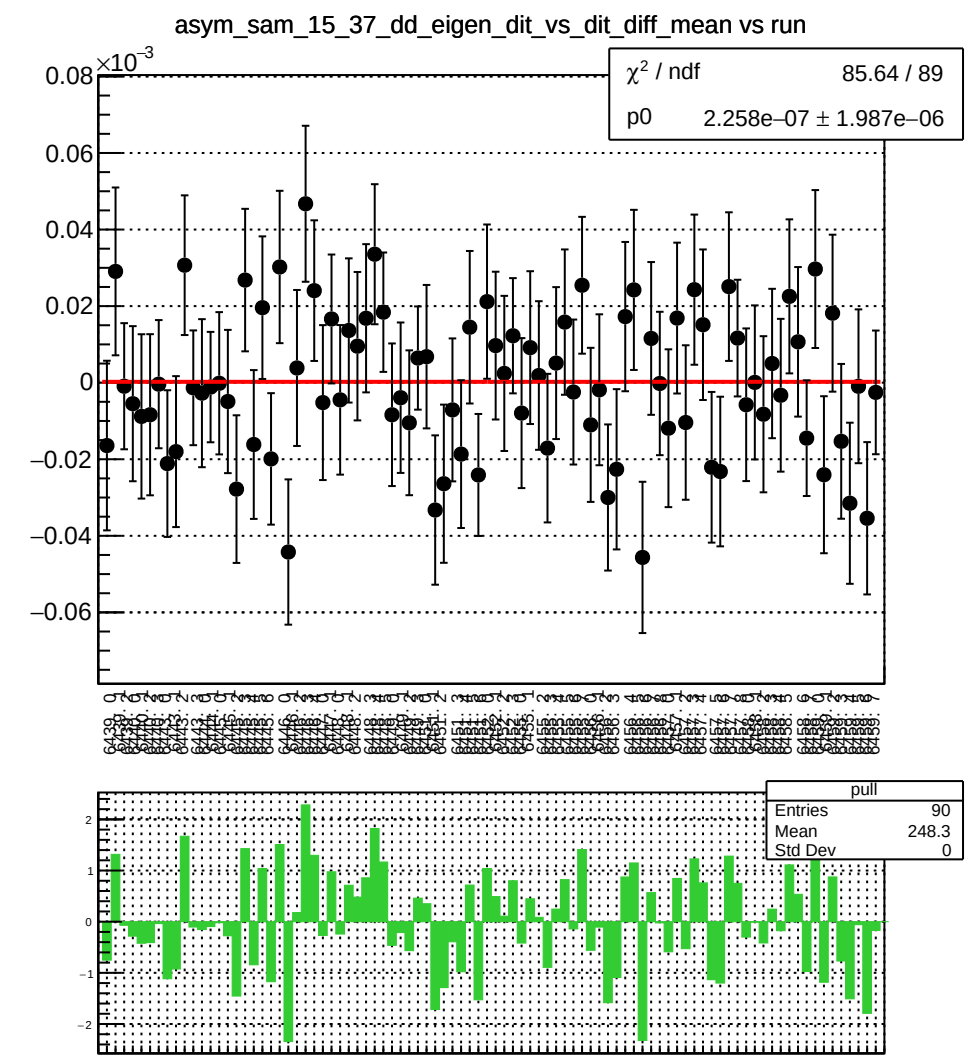

asym_sam_15_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.281e+06 / 89
p0 5.539e−12 ± 7.826e−15
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0

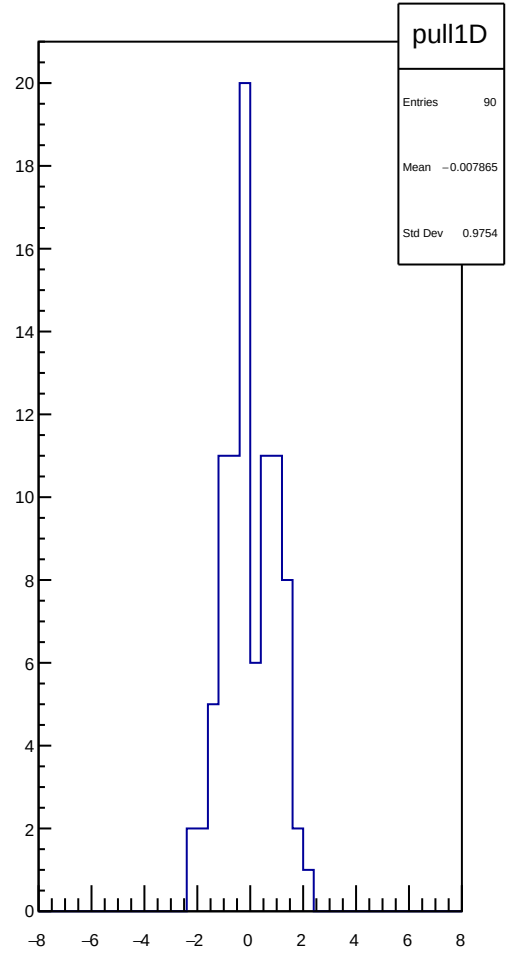

asym_sam_15_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 92.02 / 89
p0 −0.01251 ± 0.01563
pull
Entries 90
Mean −39.62
Std Dev 0
pull1D
Entries 90
Mean −0.05685
Std Dev 1.01

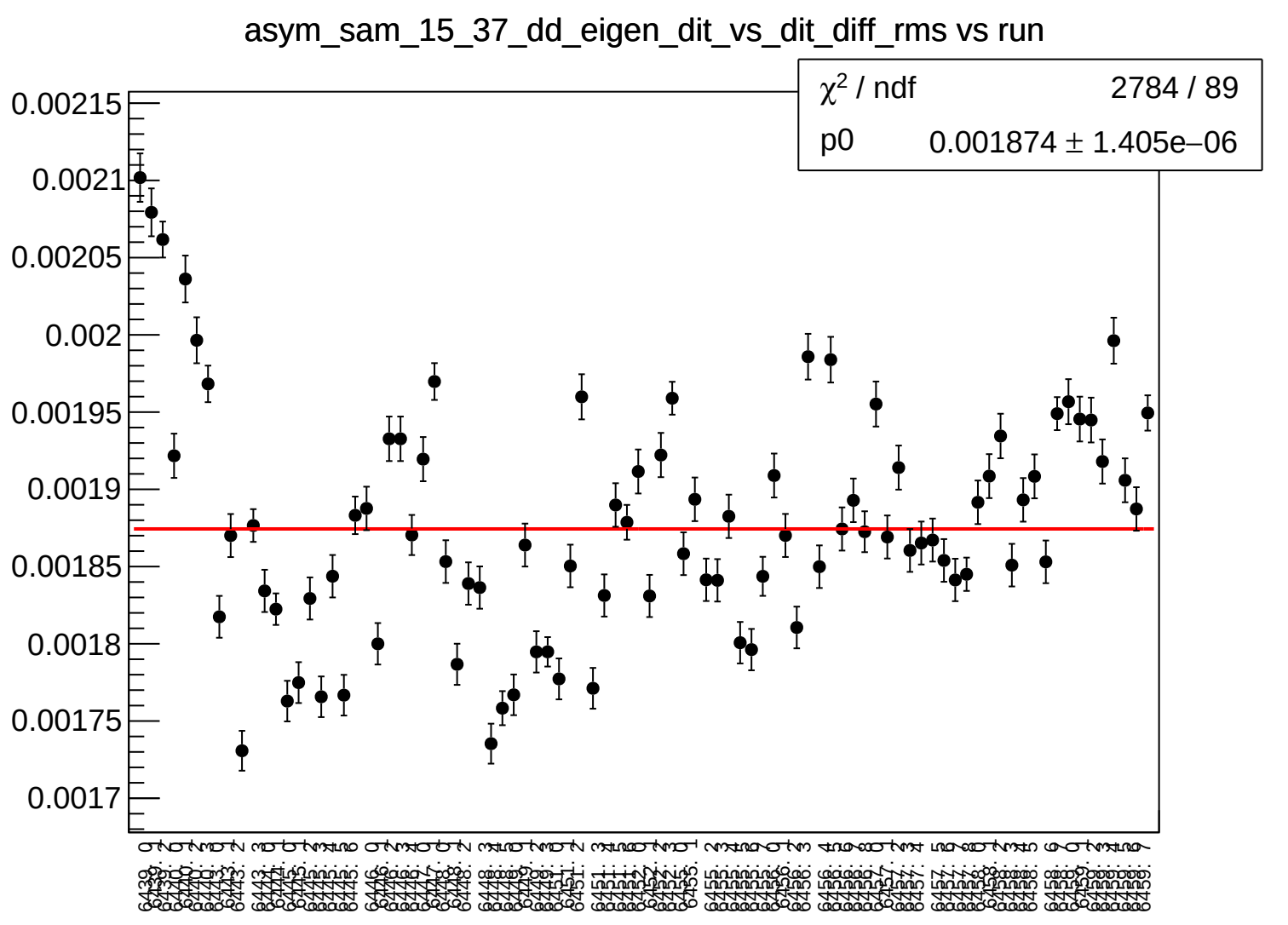

asym_sam_15_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.135e+05 / 89
p0 13.84 ± 0.01105
100
90
80
70
60
50
40
30
20
10

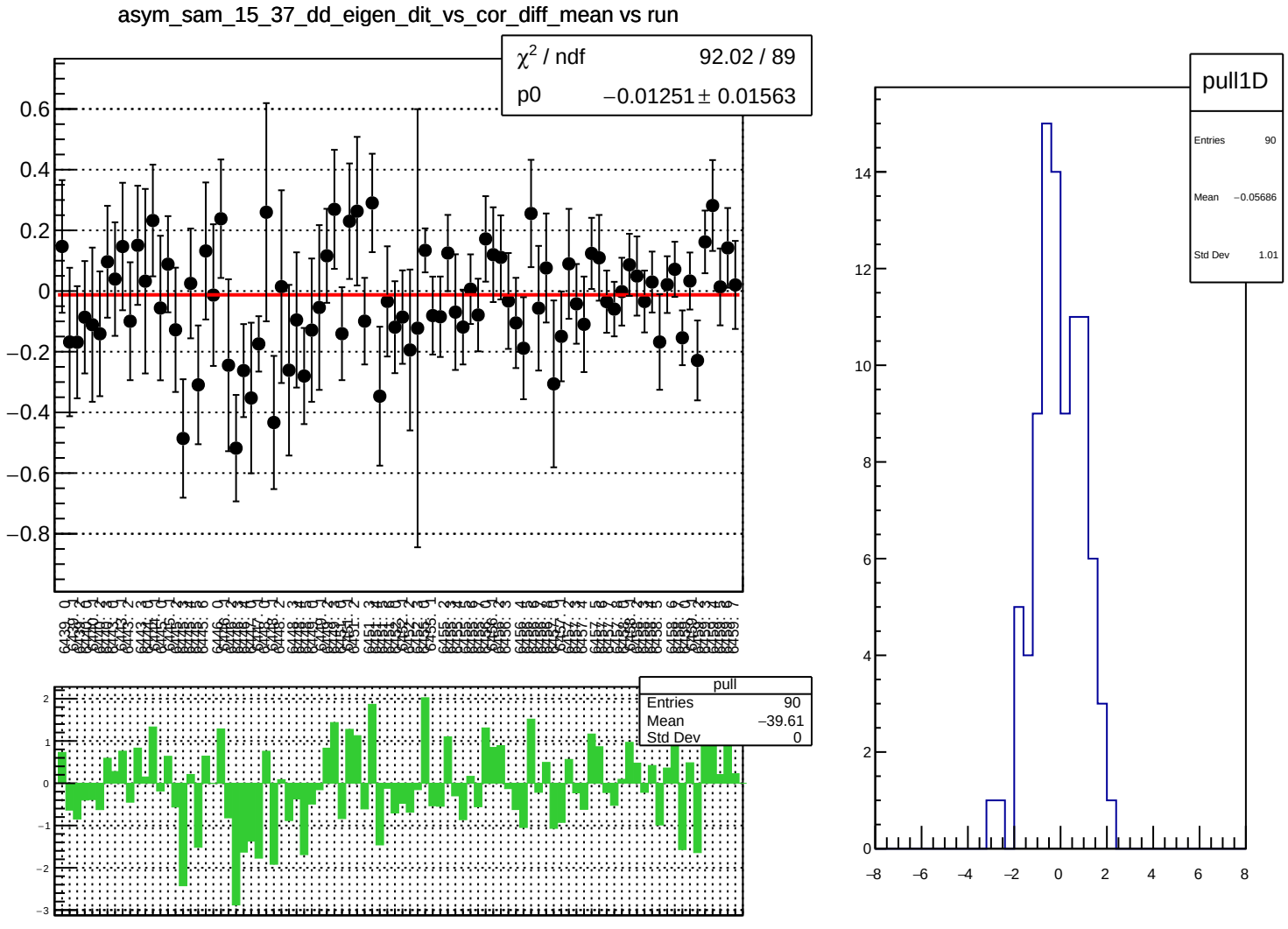

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.02 / 89
p0 −0.01251 ± 0.01563
pull
Entries 90
Mean −39.62
Std Dev 0
pull1D
Entries 90
Mean −0.05685
Std Dev 1.01

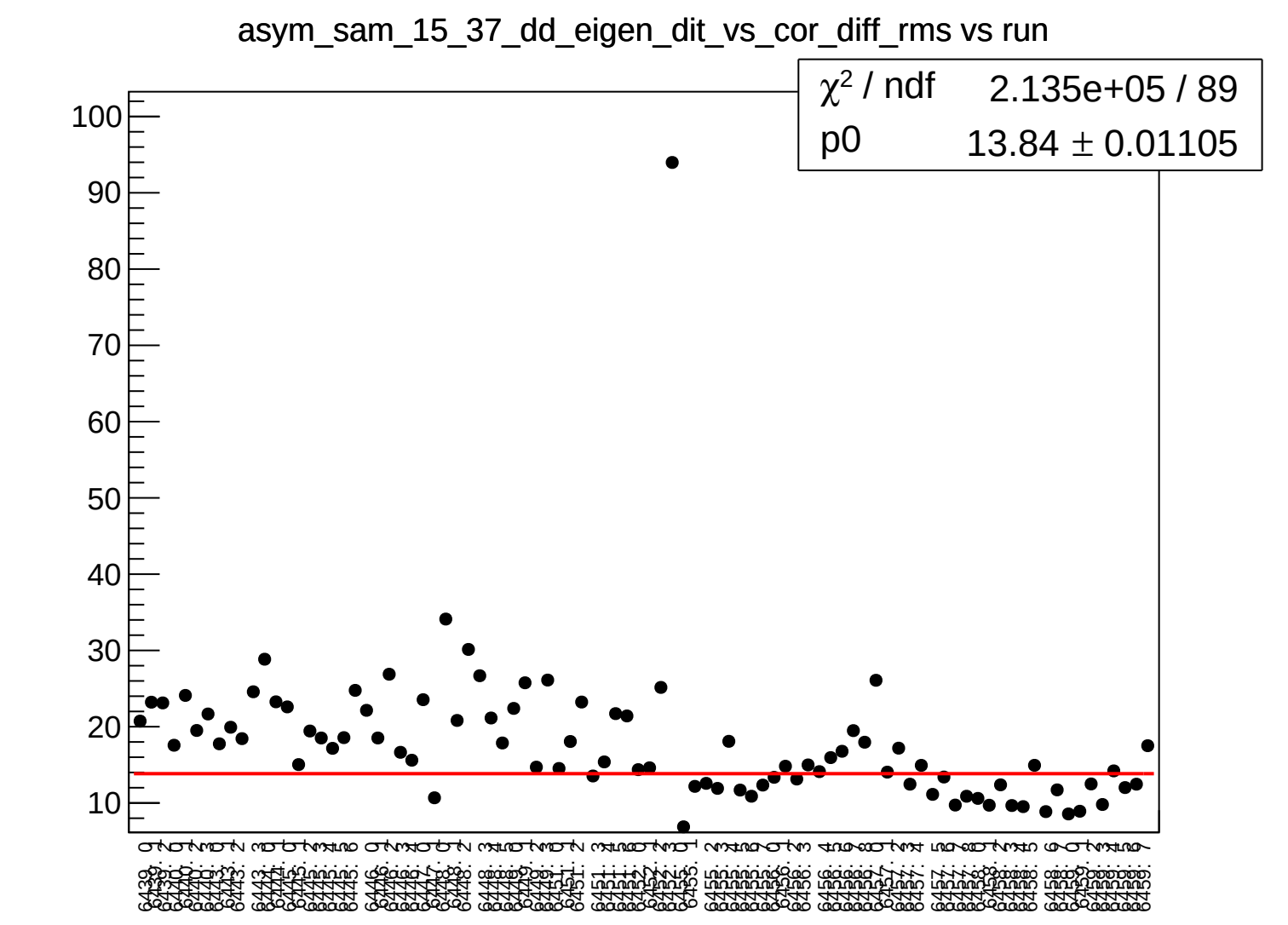

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.135e+05 / 89
p0 13.84 ± 0.01105
100
90
80
70
60
50
40
30
20
10

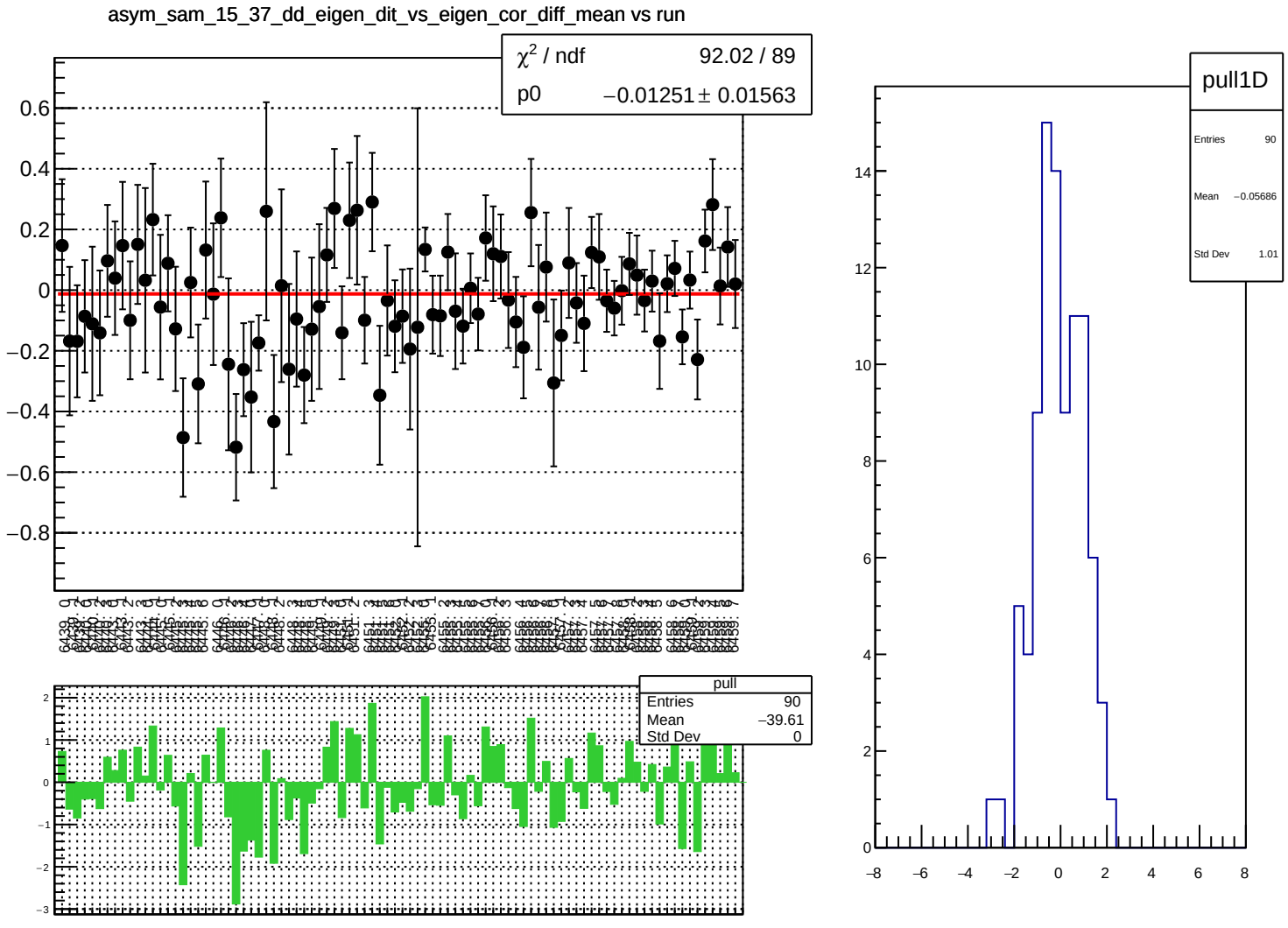

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 85.64 / 89
p0 2.258e−07 ± 1.987e−06
pull
Entries 90
Mean 248.3
Std Dev 0

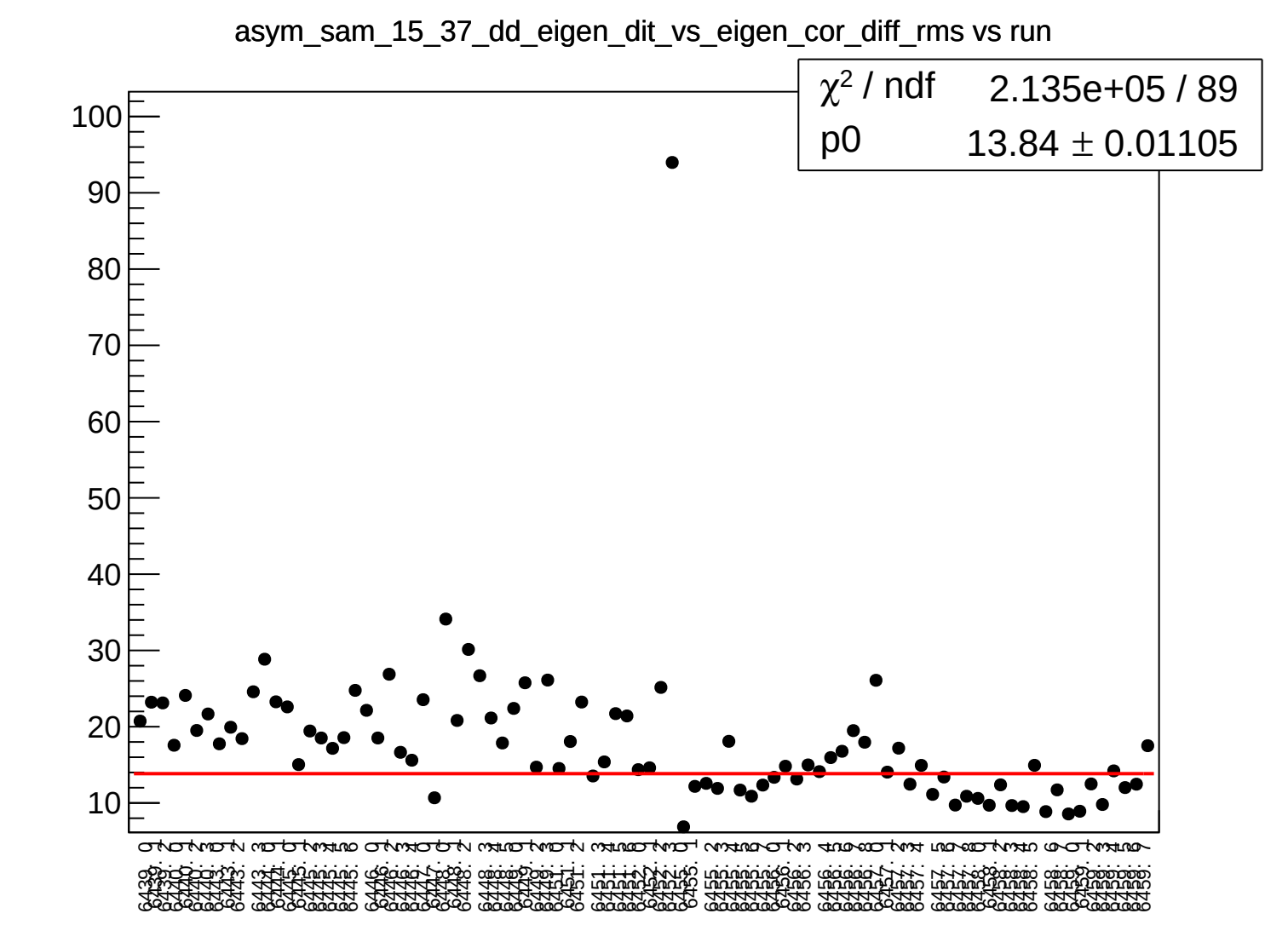

pull1D
Entries 90
Mean −0.007865
Std Dev 0.9754

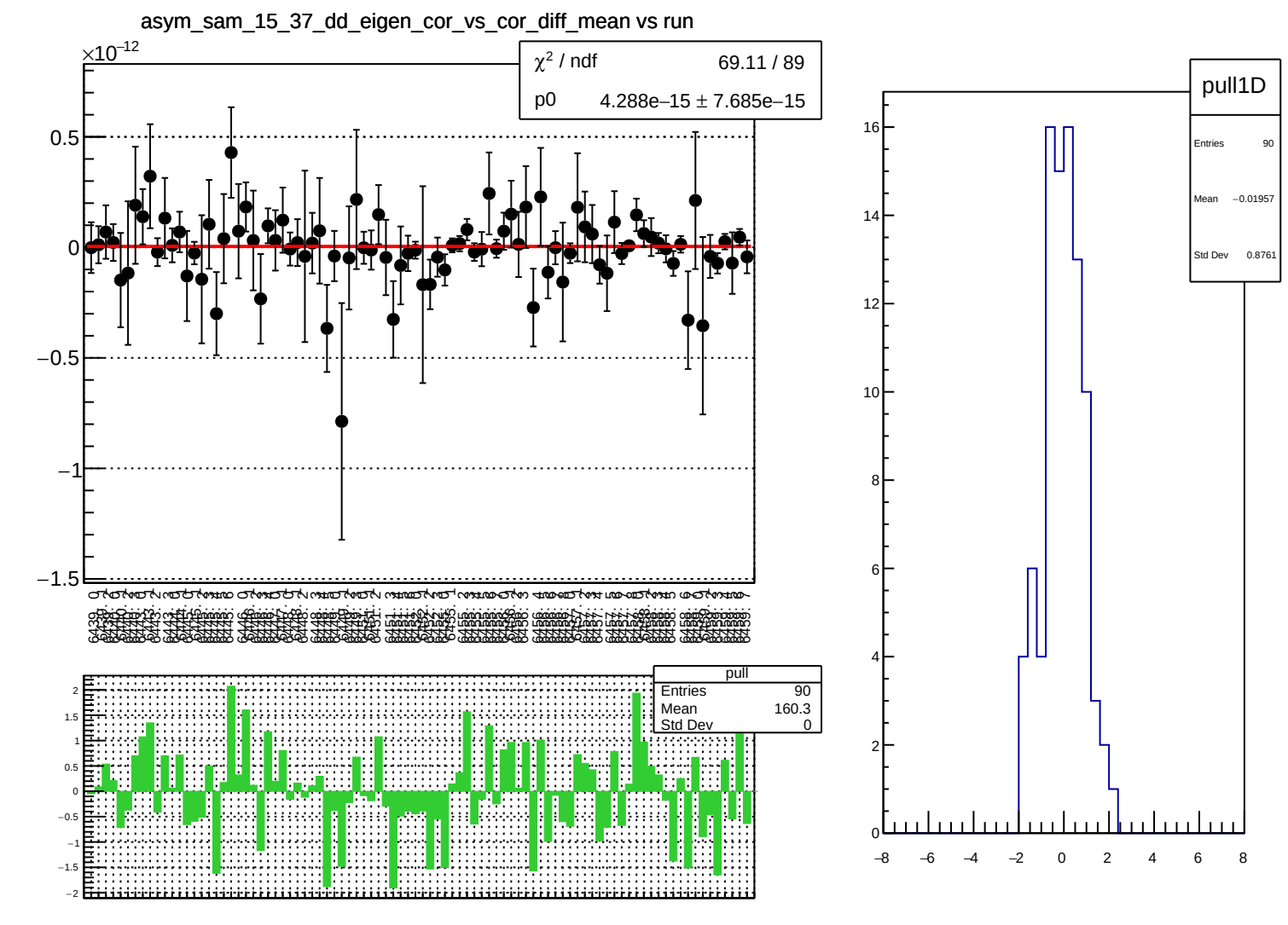

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2784 / 89
p0 0.001874 ± 1.405e−06
0.00215
0.0021
0.00205
0.002
0.00195
0.0019
0.00185
0.0018
0.00175
0.0017

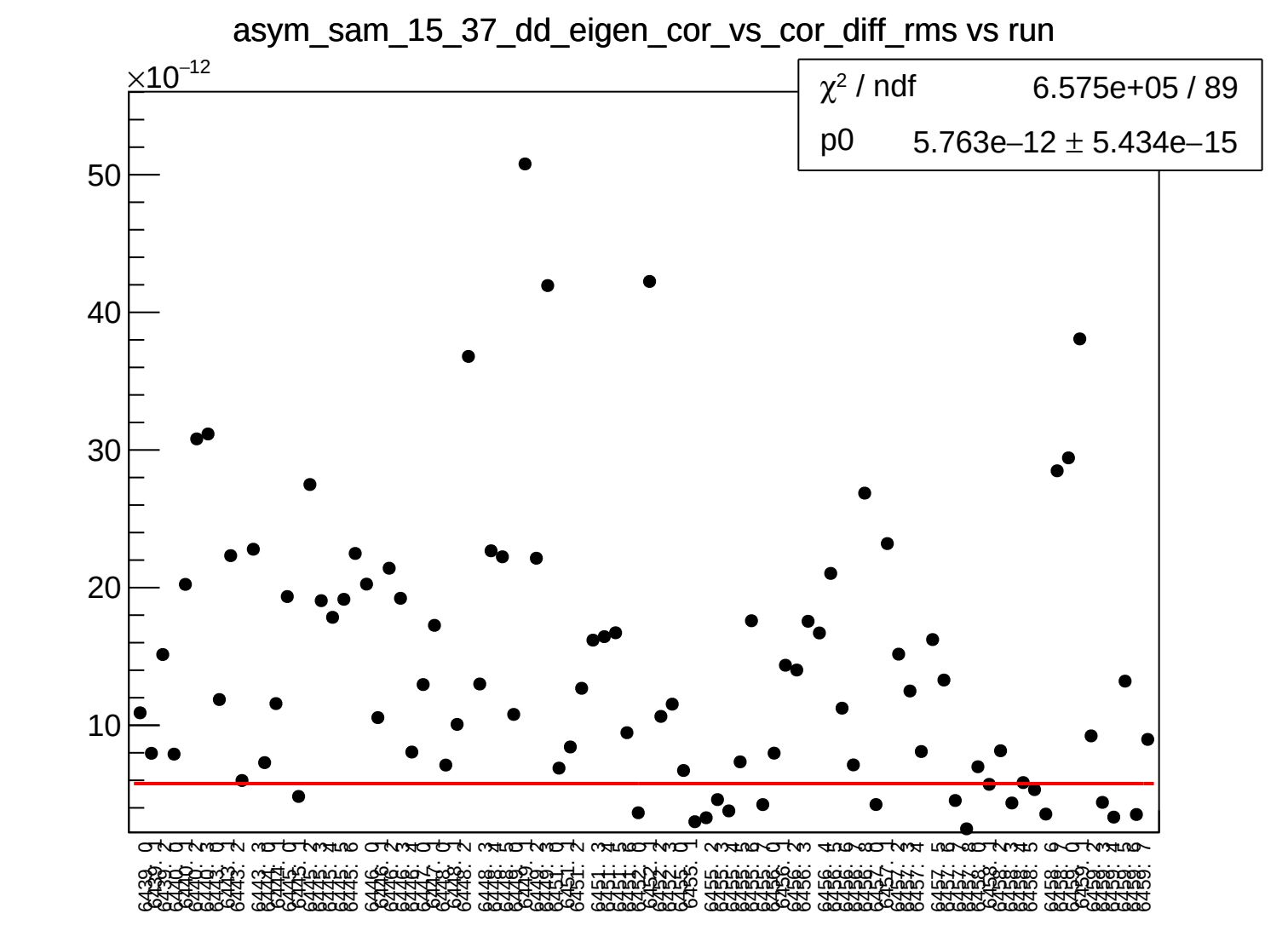

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.02 / 89
p0 −0.01251 ± 0.01563
pull
Entries 90
Mean −39.61
Std Dev 0
pull1D
Entries 90
Mean −0.05686
Std Dev 1.01

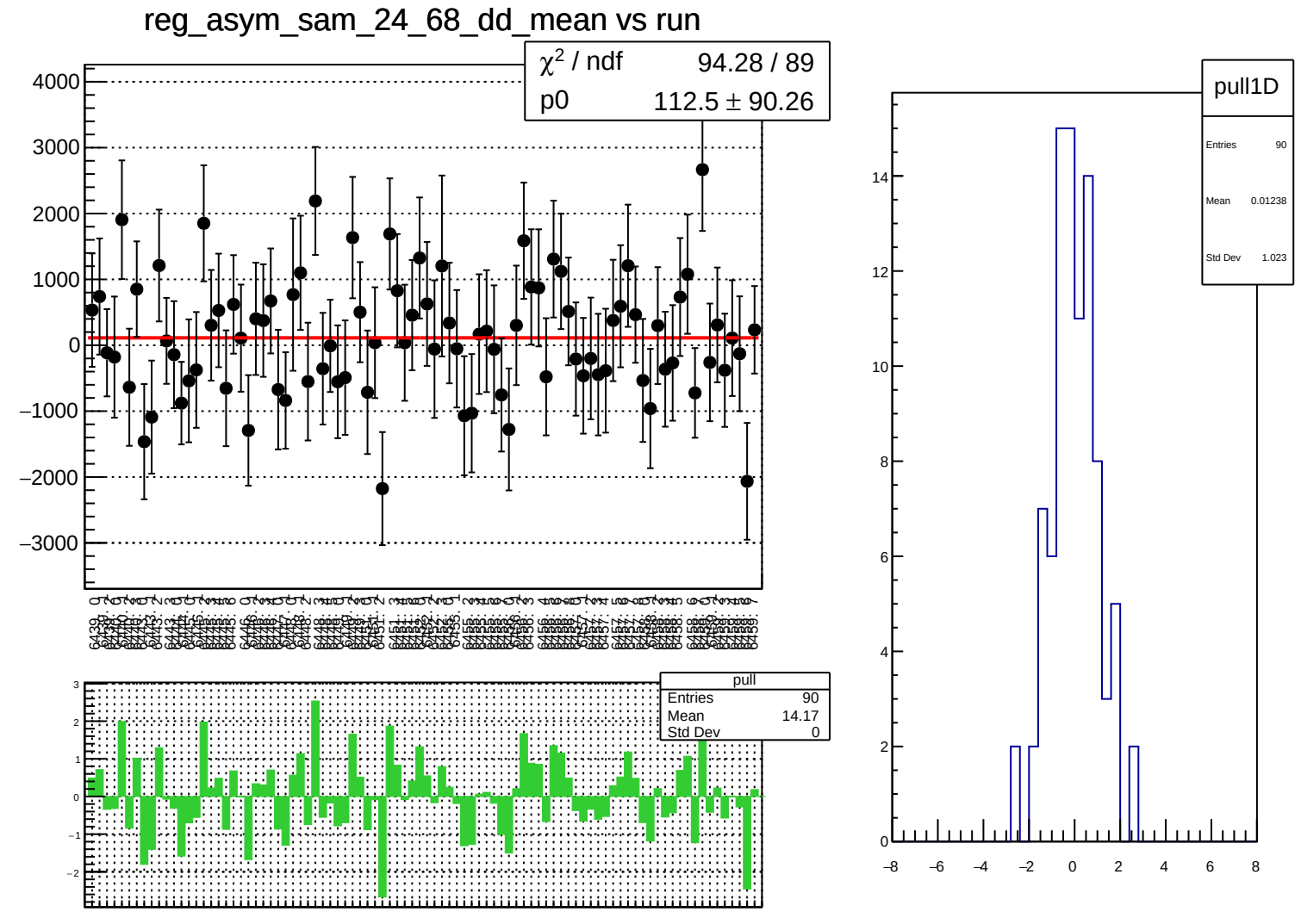

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.135e+05 / 89
p0 13.84 ± 0.01105
100
90
80
70
60
50
40
30
20
10

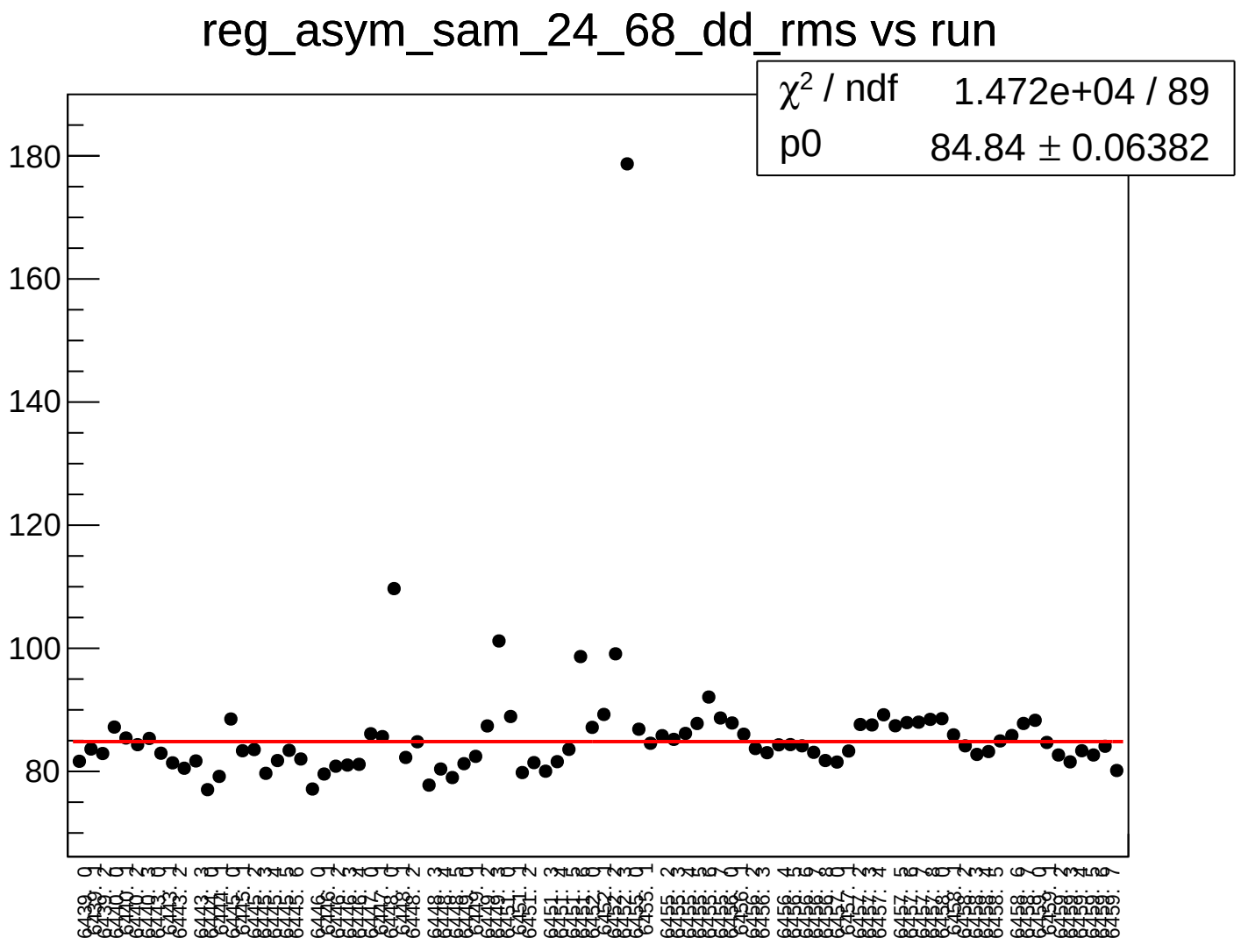

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.02 / 89
p0 −0.01251 ± 0.01563
pull
Entries 90
Mean −39.61
Std Dev 0
pull1D
Entries 90
Mean −0.05686
Std Dev 1.01

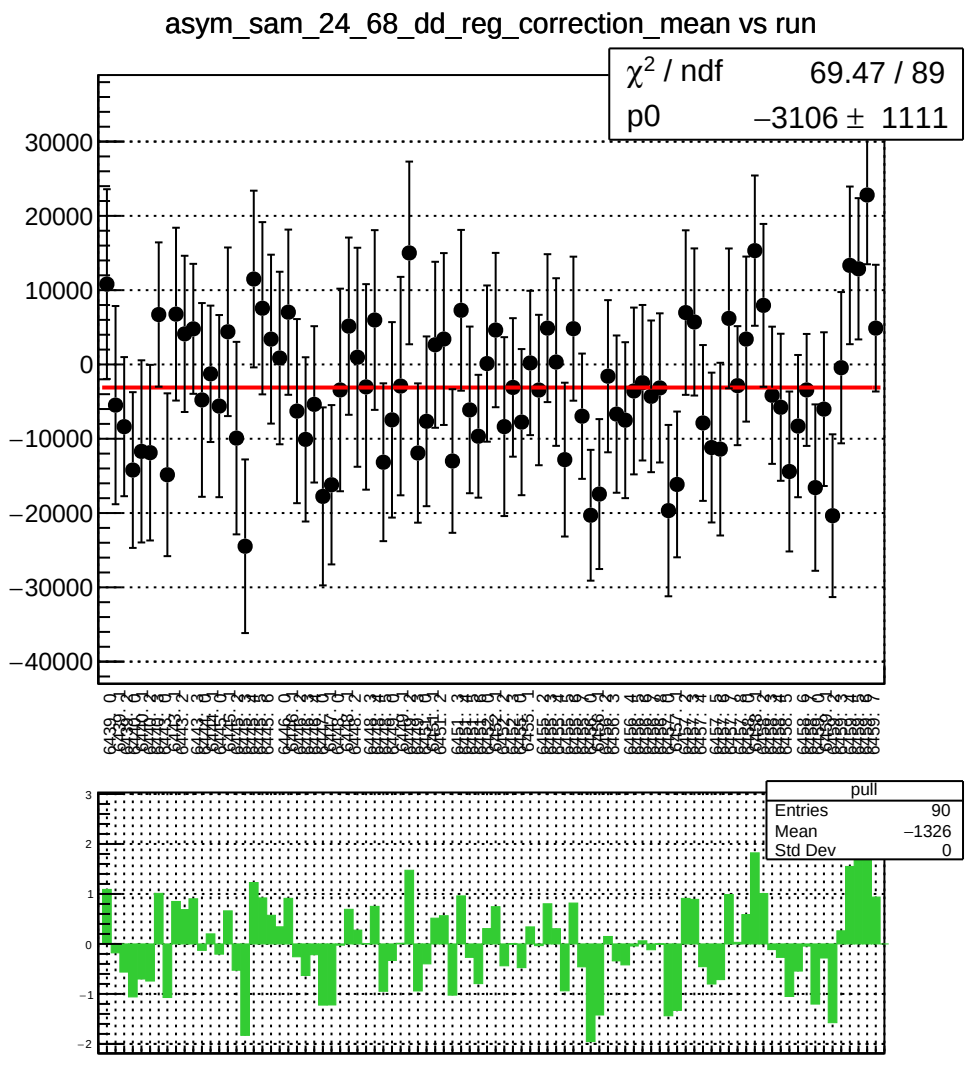

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.135e+05 / 89
p0 13.84 ± 0.01105
100
90
80
70
60
50
40
30
20
10

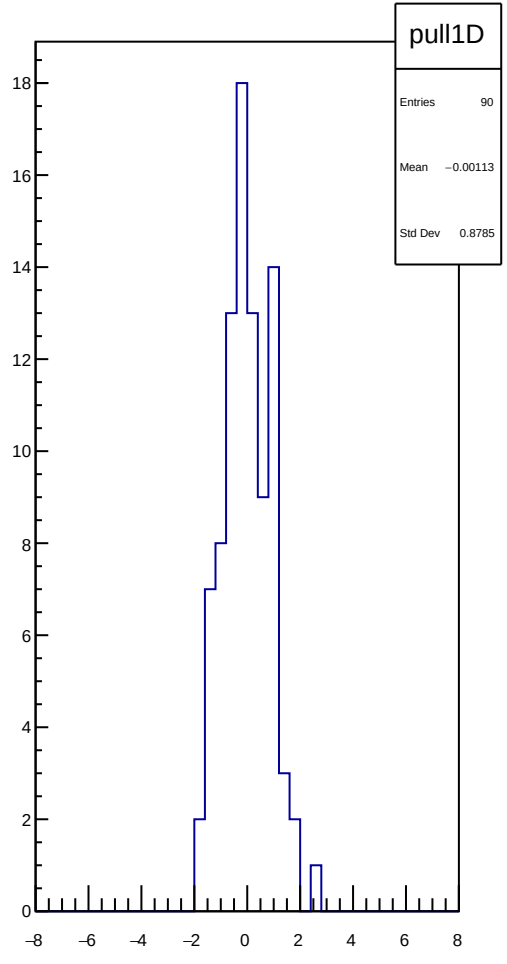

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 69.11 / 89
p0 4.288e−15 ± 7.685e−15
0.5
0
−0.5
−1
−1.5
pull
Entries 90
Mean 160.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 90
Mean −0.01957
Std Dev 0.8761
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

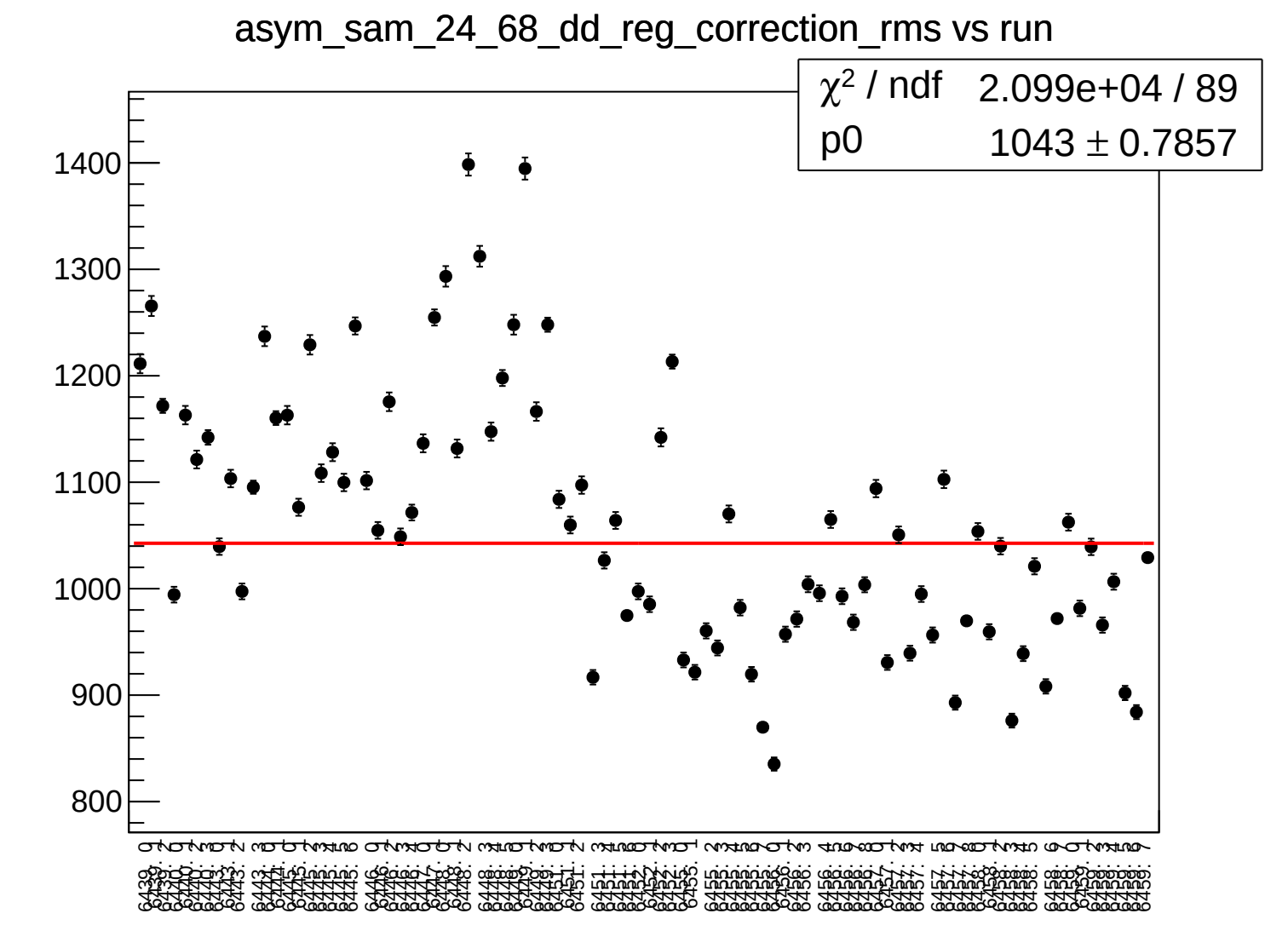

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.575e+05 / 89
p0 5.763e−12 ± 5.434e−15
50
40
30
20
10

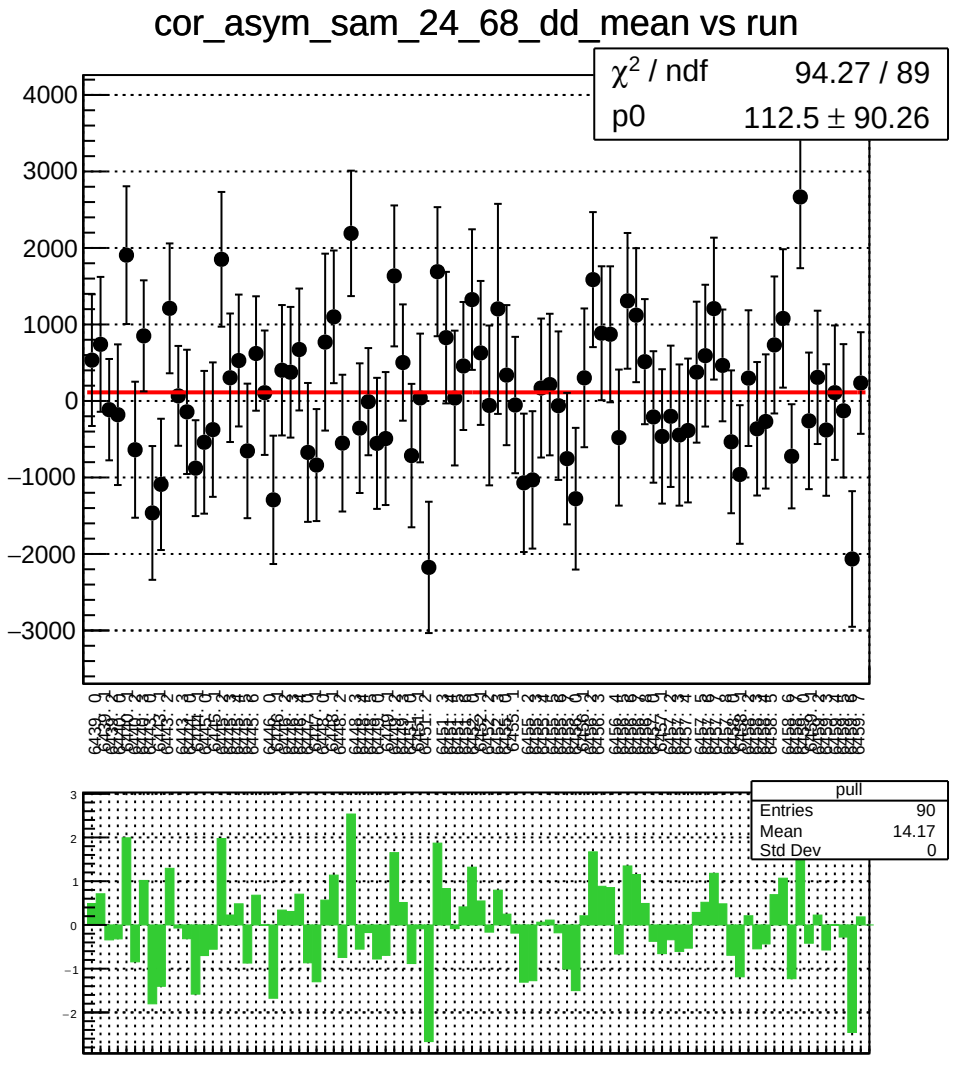

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 94.28 / 89
p0 112.5 ± 90.26
pull
Entries 90
Mean 14.17
Std Dev 0
pull1D
Entries 90
Mean 0.01238
Std Dev 1.023

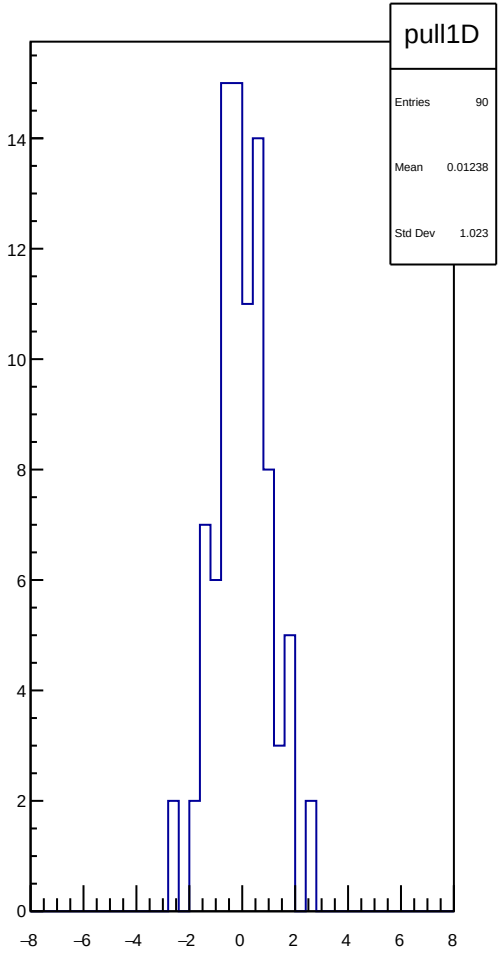

reg_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.472e+04 / 89
p0 84.84 ± 0.06382
180
160
140
120
100
80

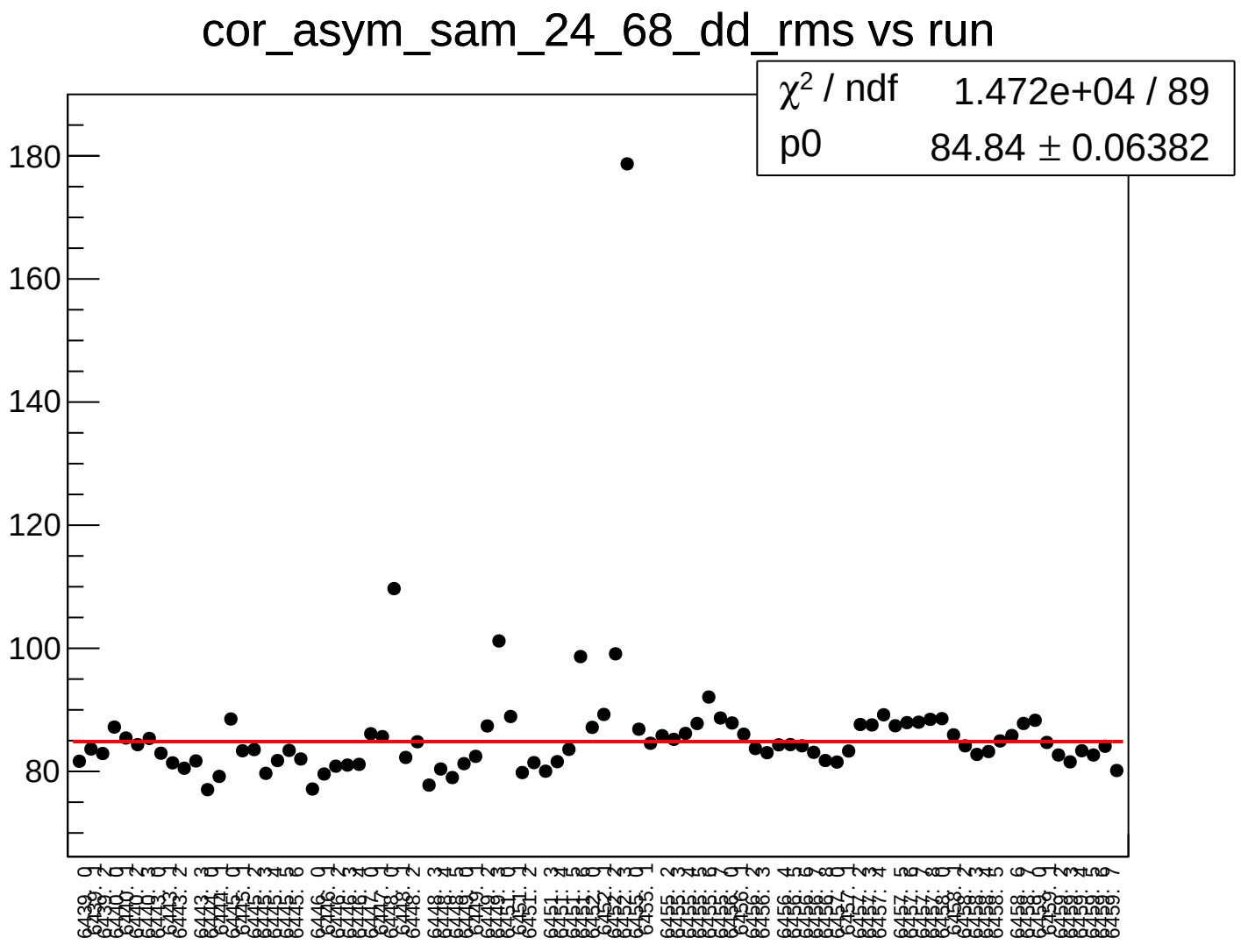

asym_sam_24_68_dd_reg_correction_mean vs run
χ² / ndf 69.47 / 89
p0 −3106 ± 1111
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 90
Mean −1326
Std Dev 0
3
2
1
0
−1
−2

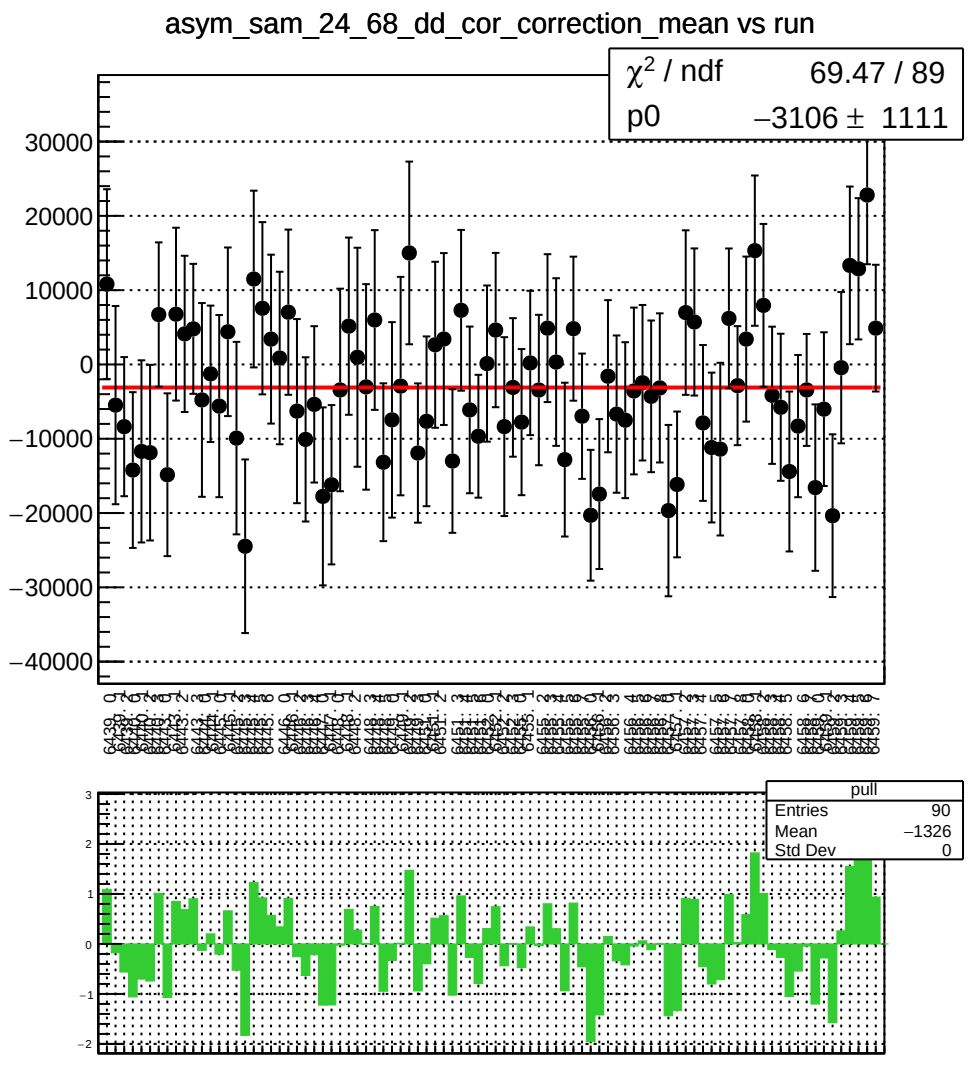

pull1D
Entries 90
Mean −0.00113
Std Dev 0.8785
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

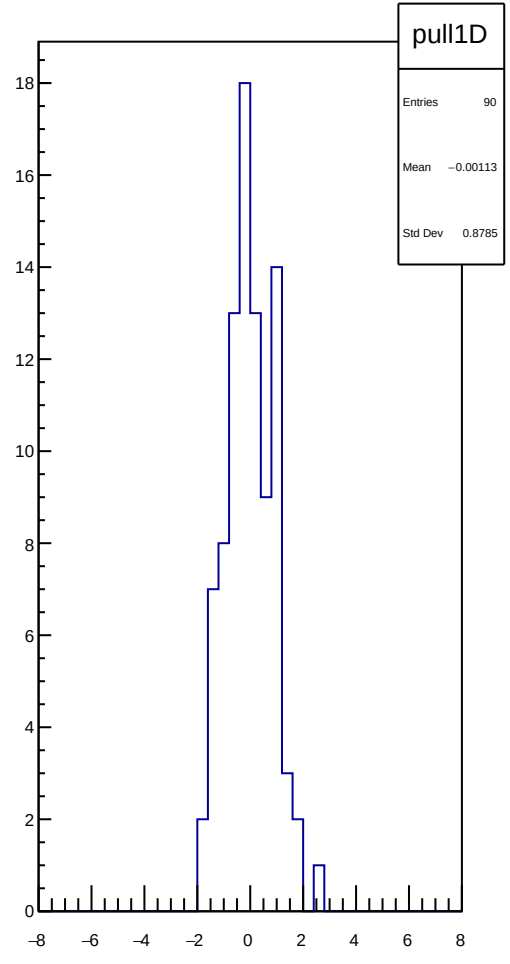

asym_sam_24_68_dd_reg_correction_rms vs run
χ² / ndf 2.099e+04 / 89
p0 1043 ± 0.7857
1400
1300
1200
1100
1000
900
800

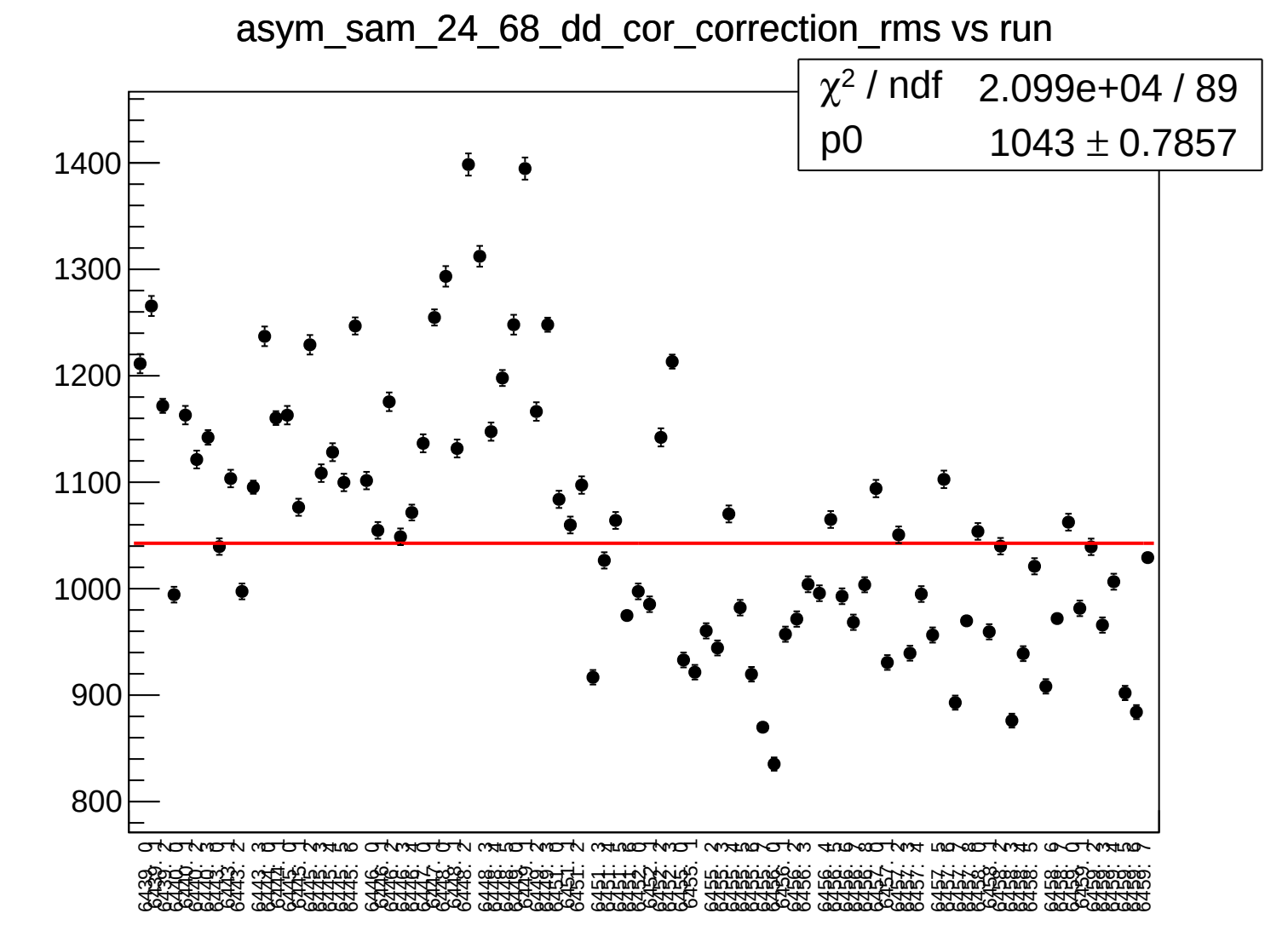

cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 94.27 / 89
p0 112.5 ± 90.26
pull
Entries 90
Mean 14.17
Std Dev 0

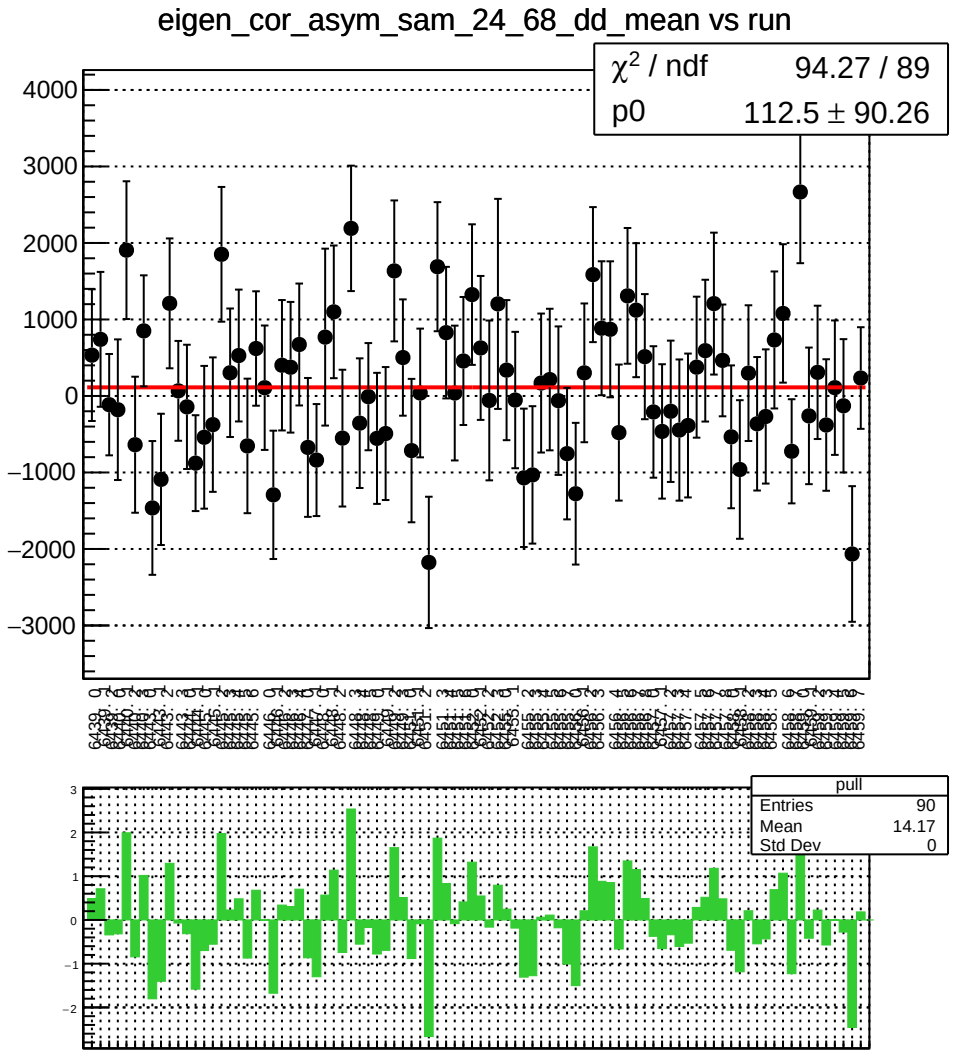

pull1D
Entries 90
Mean 0.01238
Std Dev 1.023

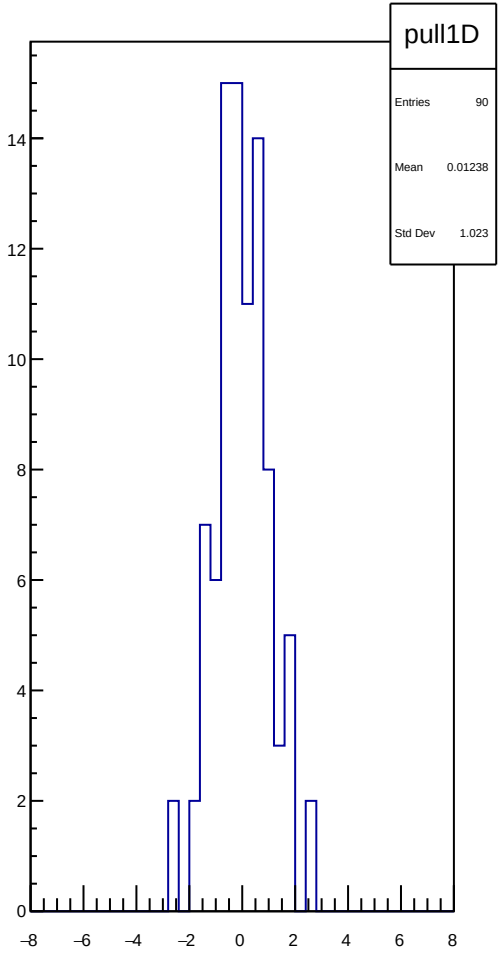

cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.472e+04 / 89
p0 84.84 ± 0.06382
180
160
140
120
100
80

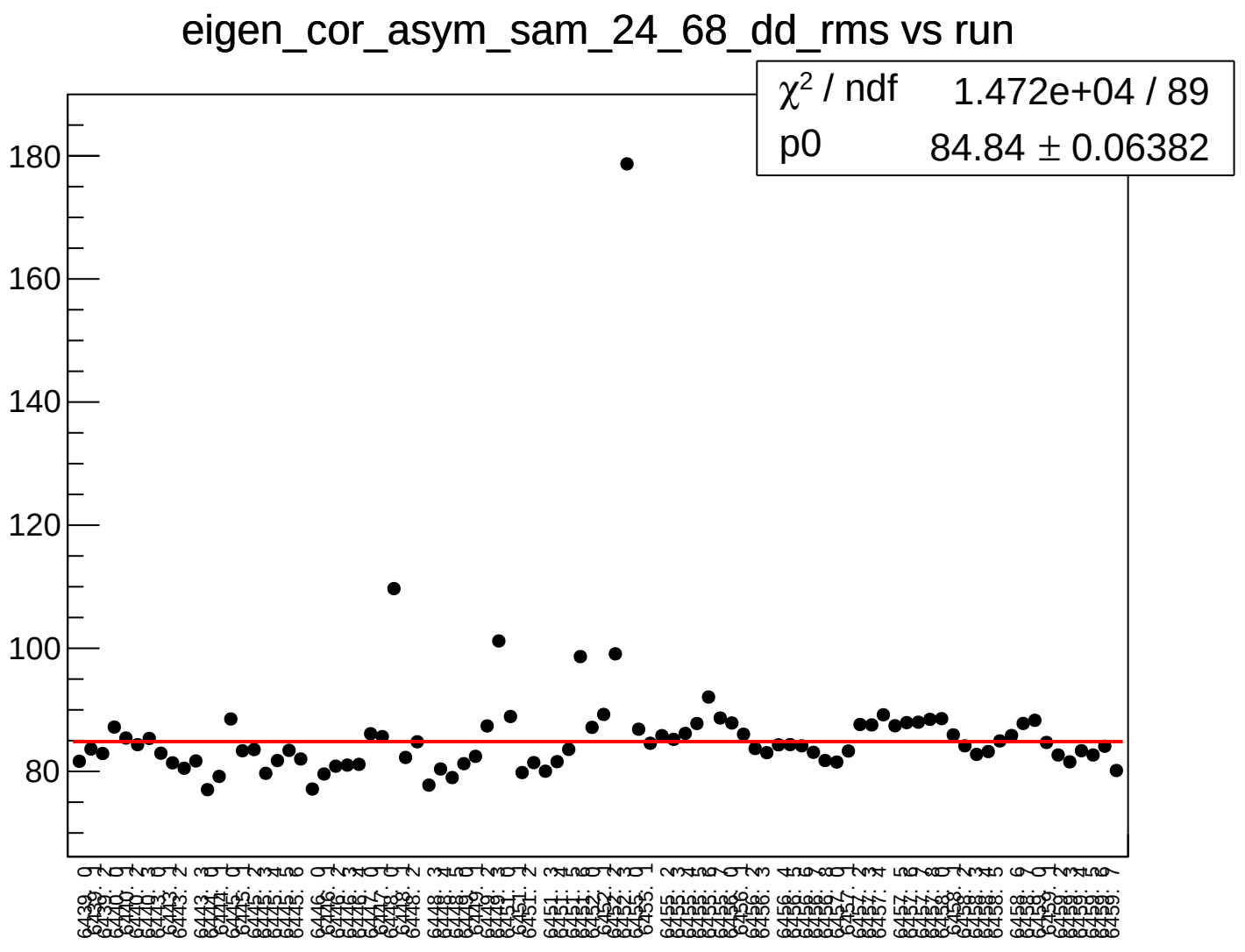

asym_sam_24_68_dd_cor_correction_mean vs run
χ² / ndf 69.47 / 89
p0 −3106 ± 1111
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 90
Mean −1326
Std Dev 0
3
2
1
0
−1
−2

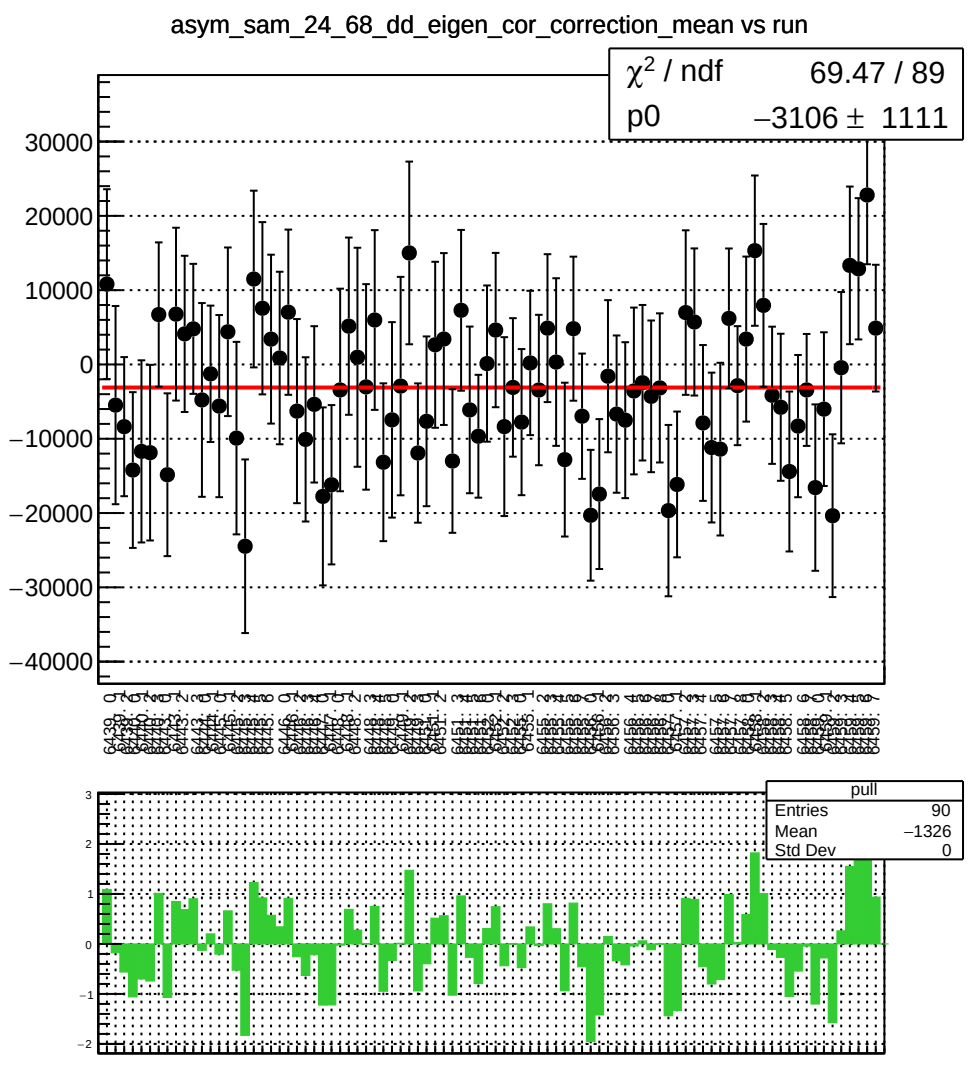

pull1D
Entries 90
Mean −0.00113
Std Dev 0.8785
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

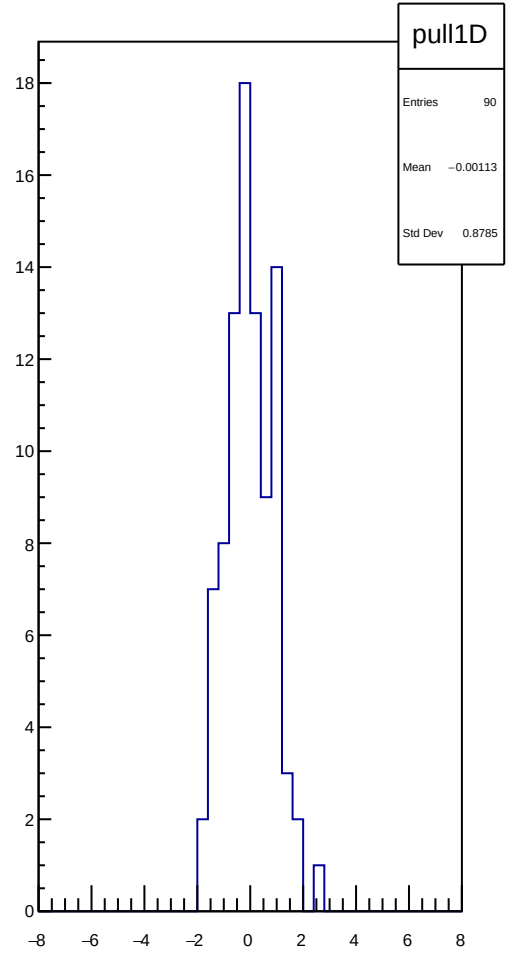

asym_sam_24_68_dd_cor_correction_rms vs run
χ² / ndf 2.099e+04 / 89
p0 1043 ± 0.7857
1400
1300
1200
1100
1000
900
800

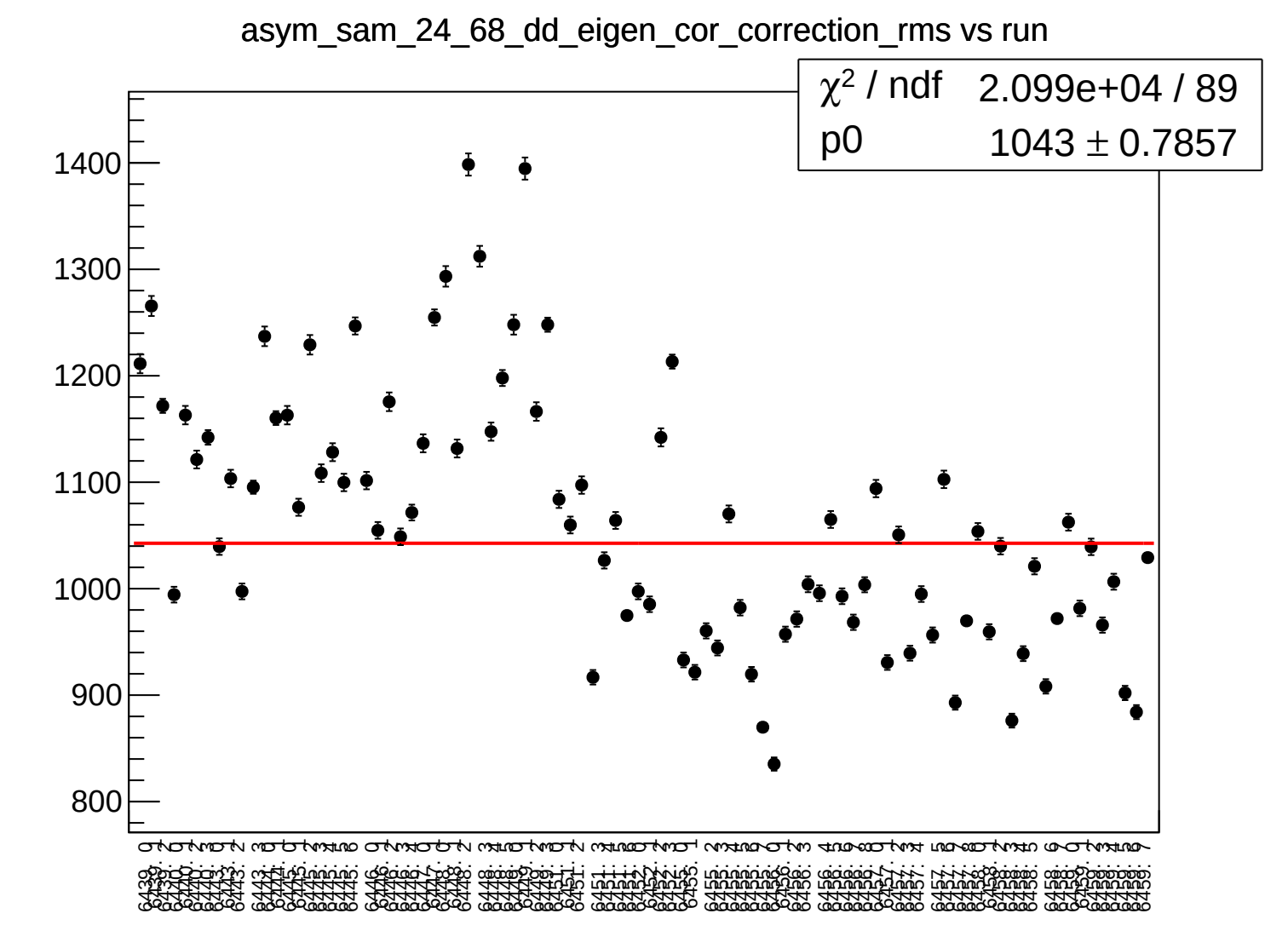

eigen_cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 94.27 / 89
p0 112.5 ± 90.26
pull
Entries 90
Mean 14.17
Std Dev 0

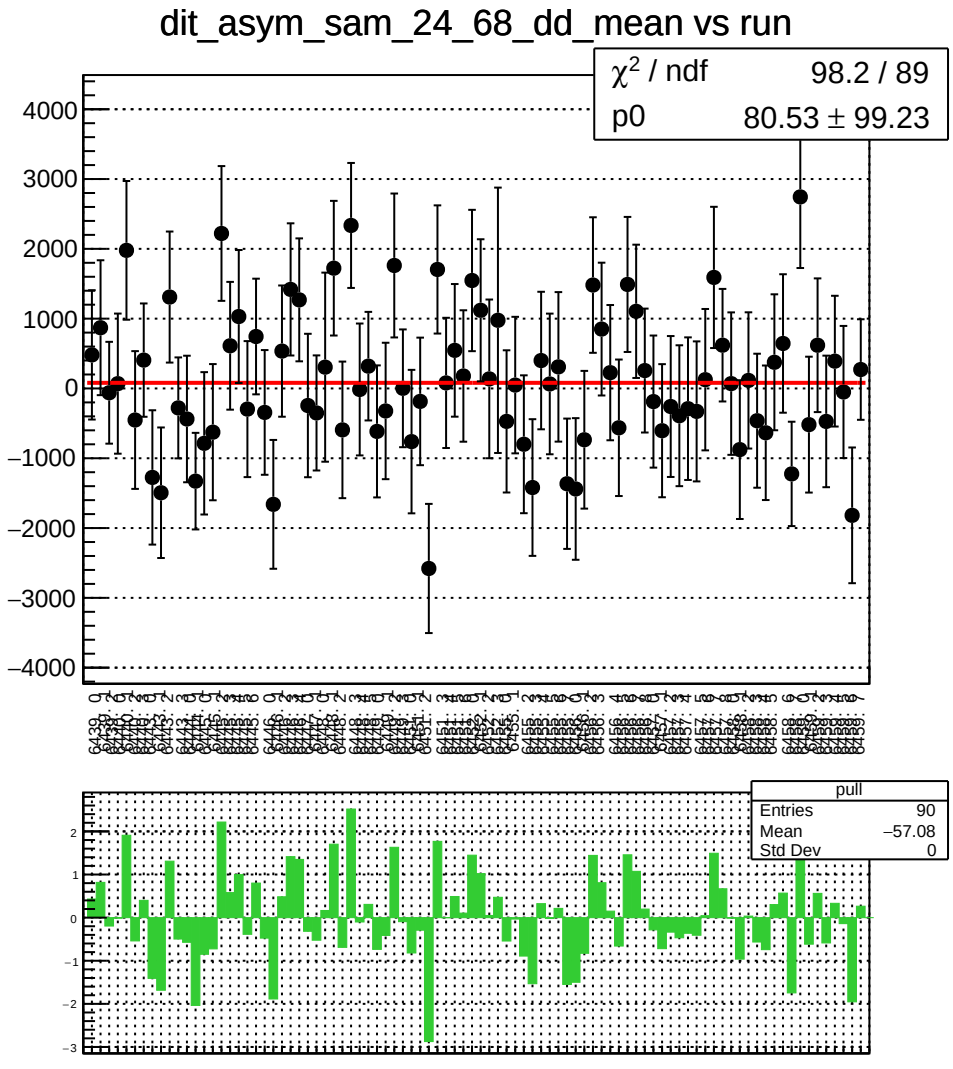

pull1D
Entries 90
Mean 0.01238
Std Dev 1.023

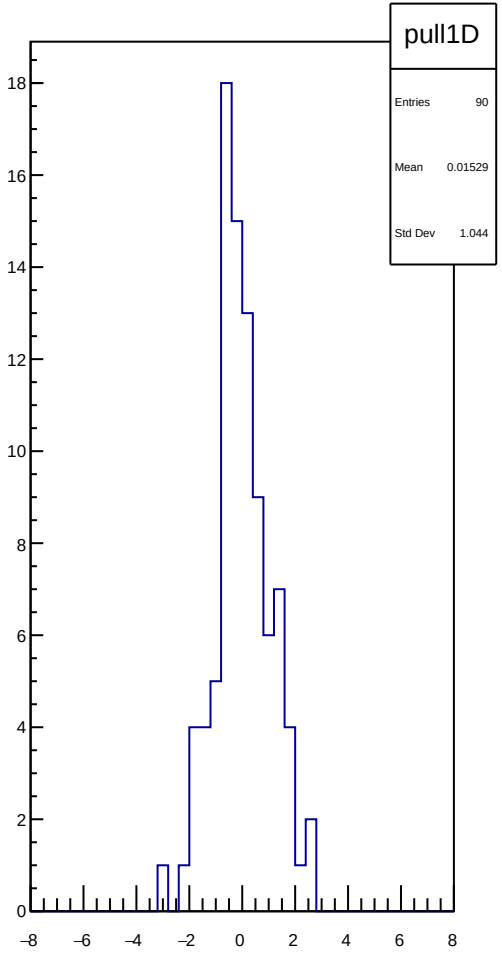

eigen_cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.472e+04 / 89
p0 84.84 ± 0.06382
180
160
140
120
100
80

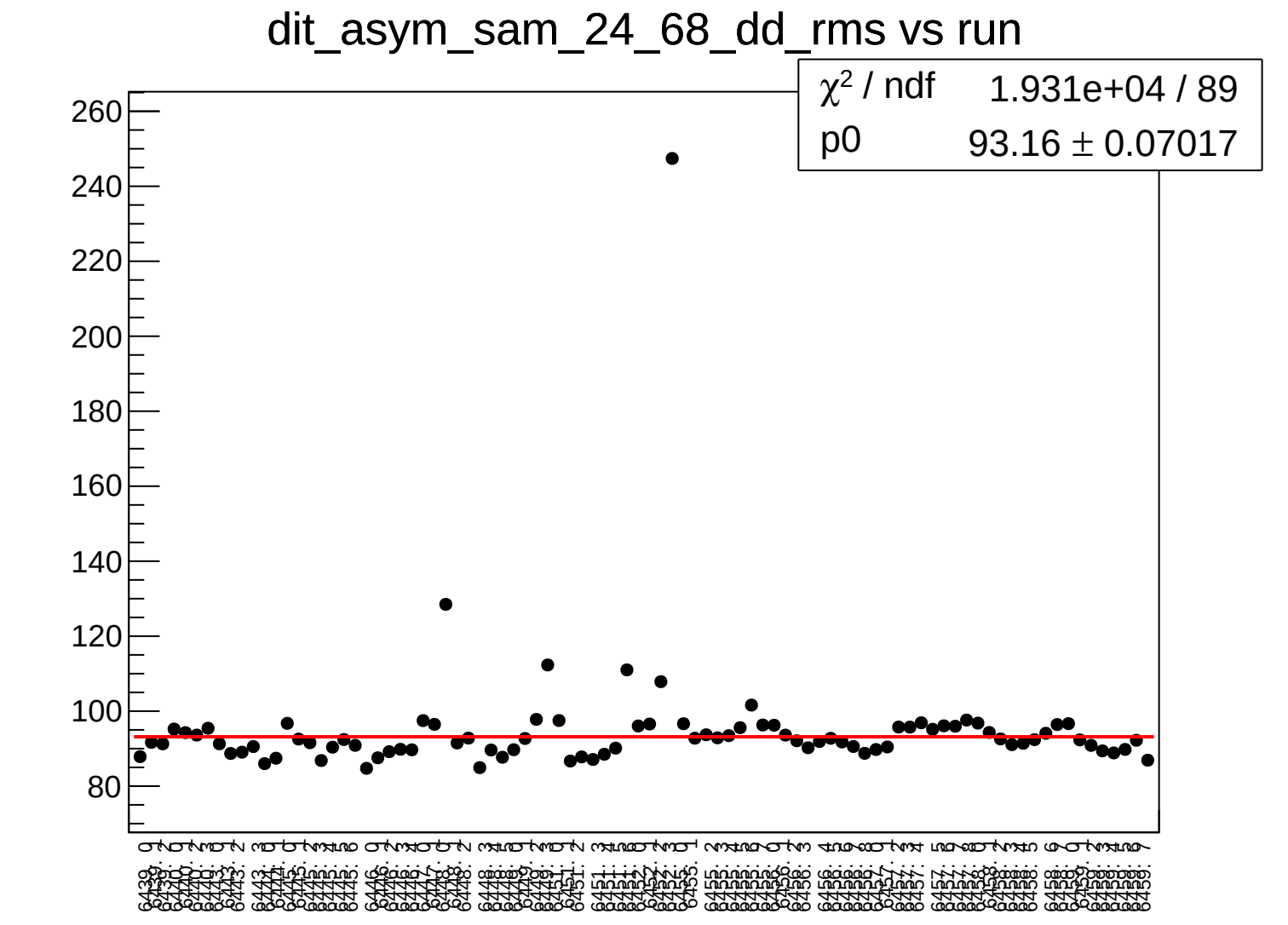

asym_sam_24_68_dd_eigen_cor_correction_mean vs run
χ² / ndf 69.47 / 89
p0 −3106 ± 1111
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 90
Mean −1326
Std Dev 0
3
2
1
0
−1
−2

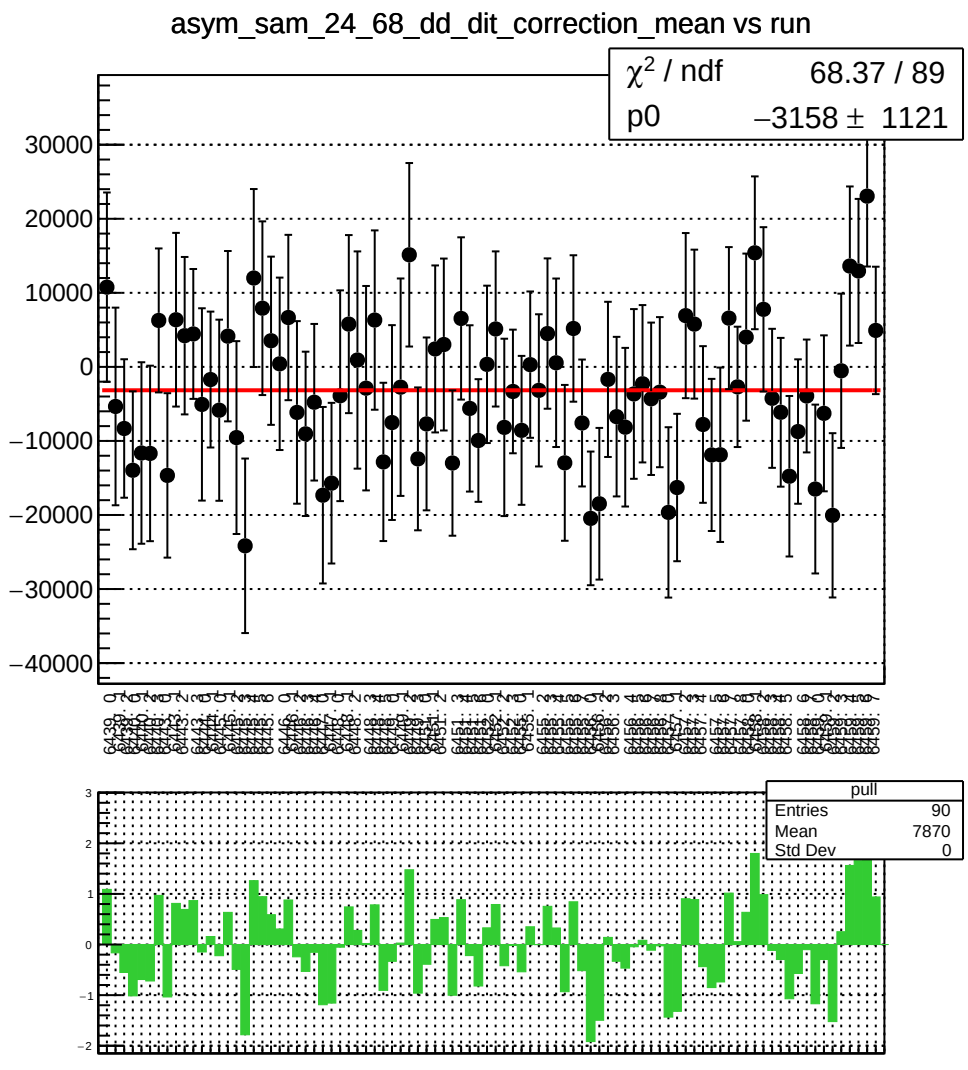

pull1D
Entries 90
Mean −0.00113
Std Dev 0.8785
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

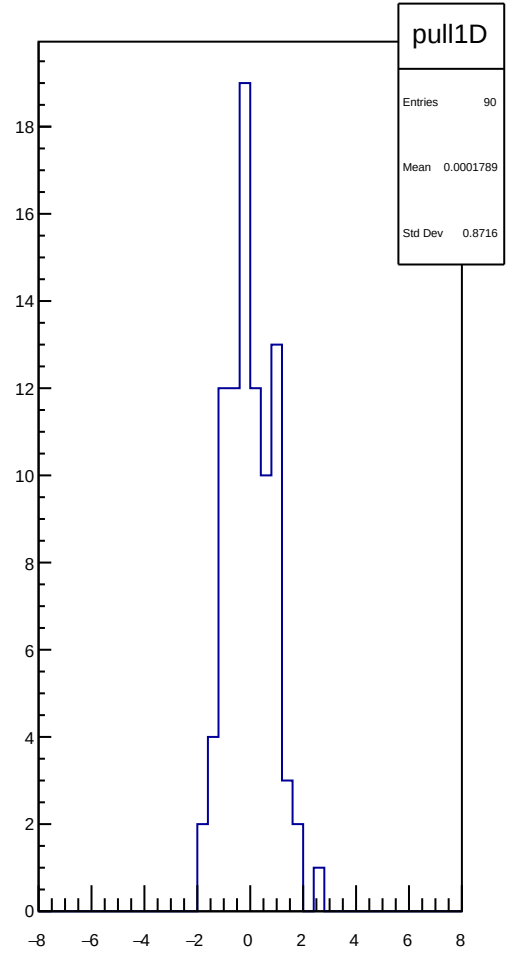

asym_sam_24_68_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.099e+04 / 89
p0 1043 ± 0.7857
1400
1300
1200
1100
1000
900
800

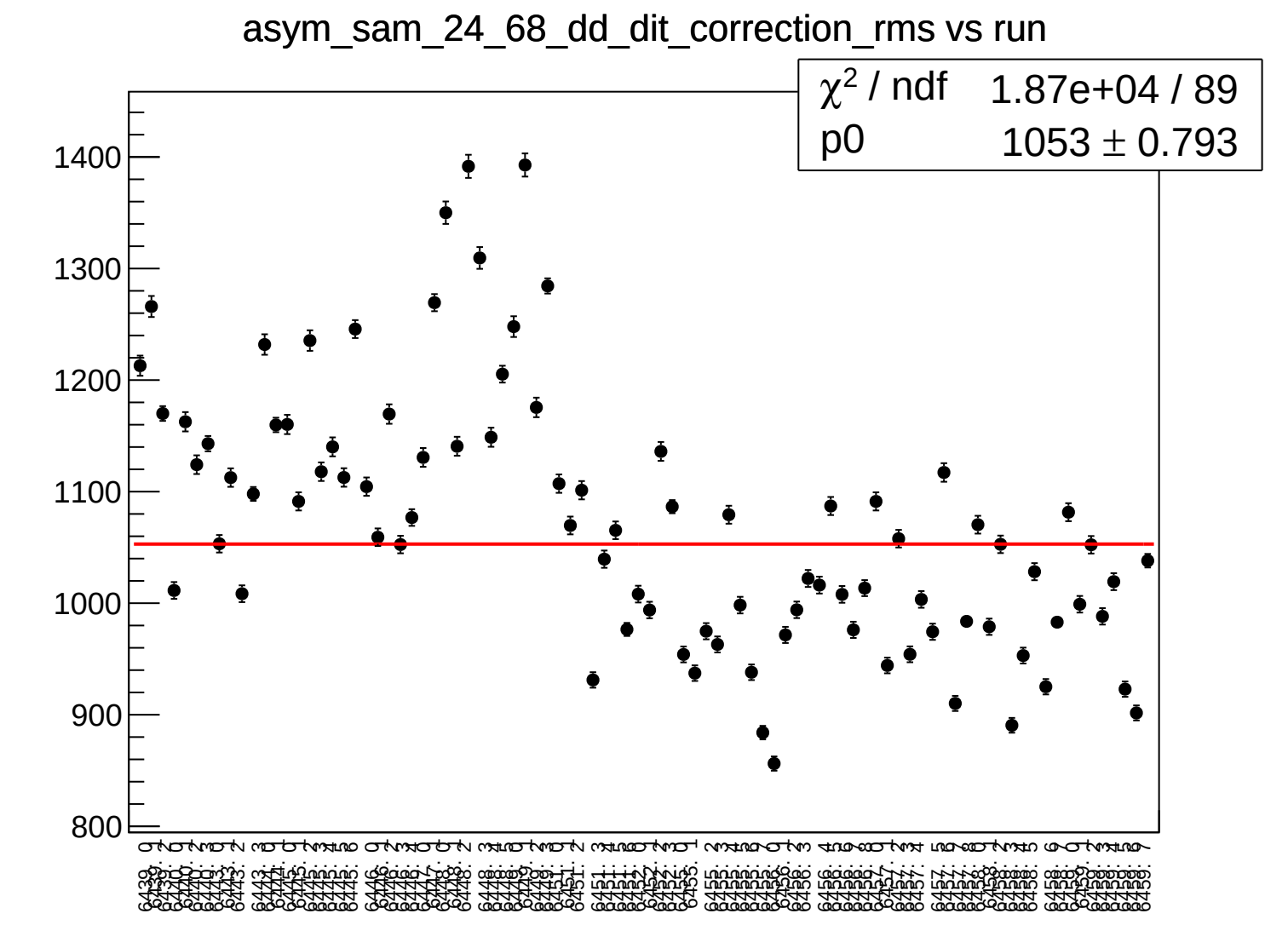

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 98.2 / 89
p0 80.53 ± 99.23
pull
Entries 90
Mean −57.08
Std Dev 0

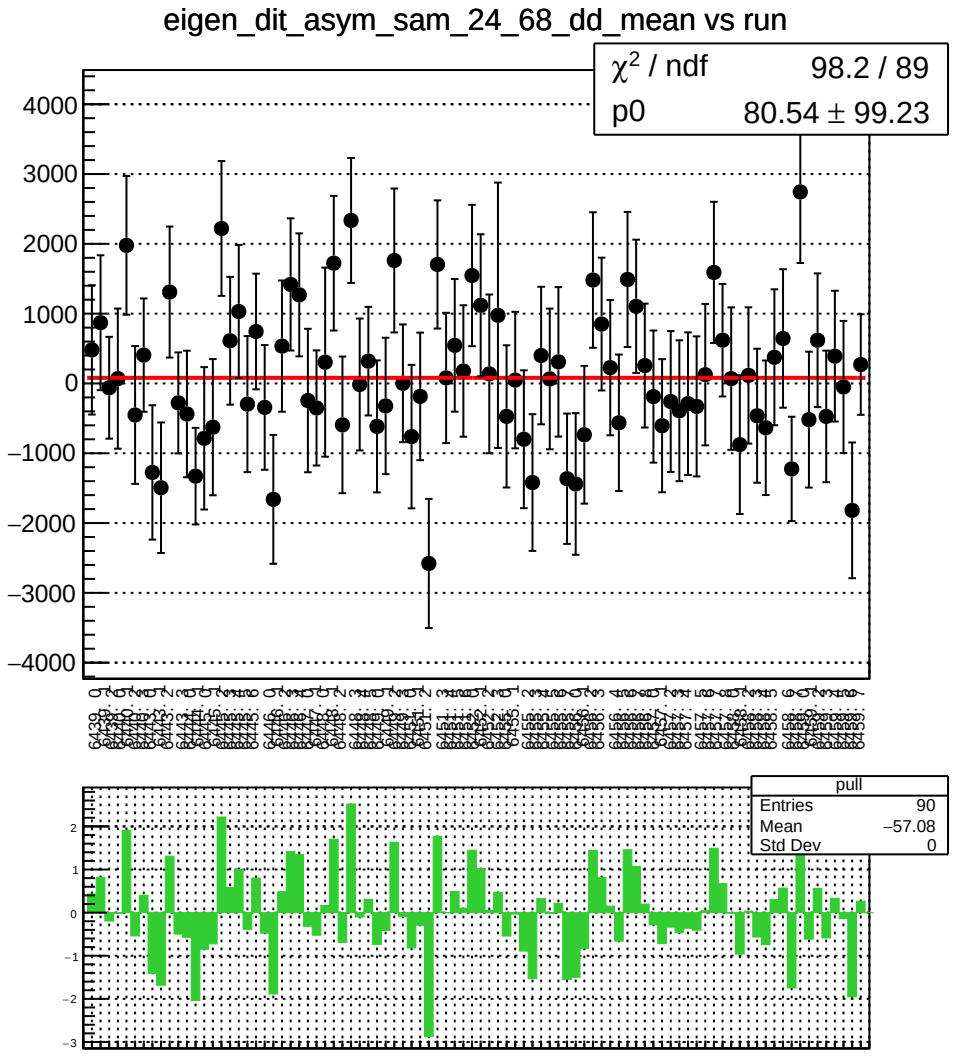

pull1D
Entries 90
Mean 0.01529
Std Dev 1.044

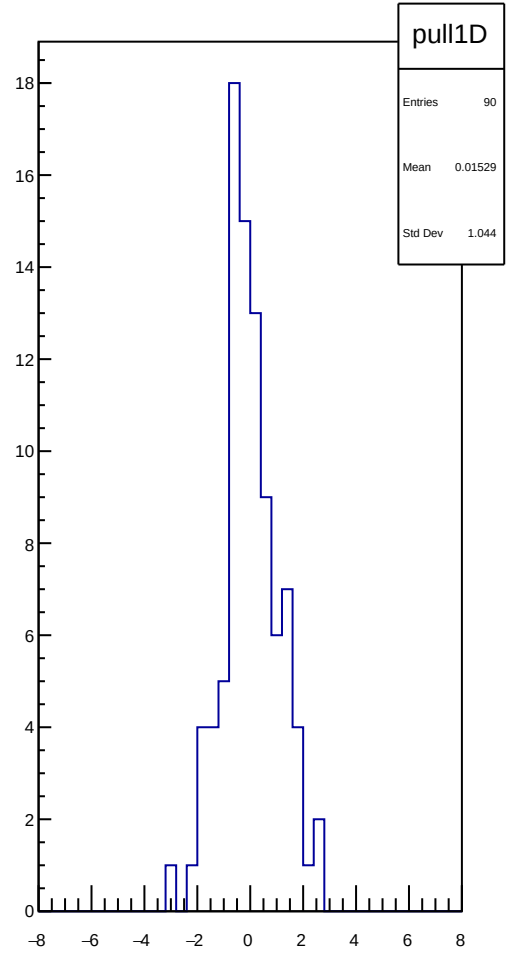

dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.931e+04 / 89
p0 93.16 ± 0.07017
260
240
220
200
180
160
140
120
100
80

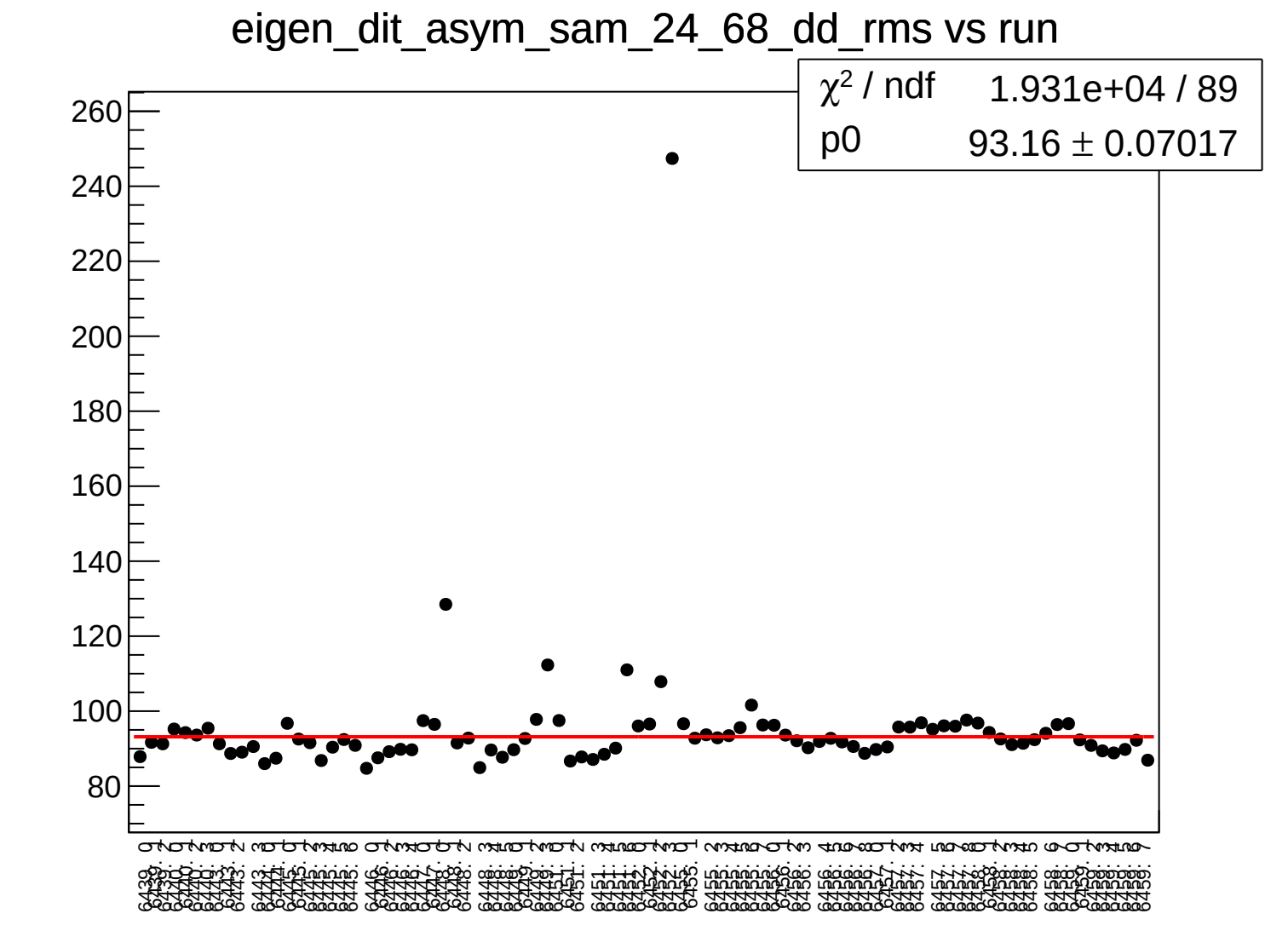

asym_sam_24_68_dd_dit_correction_mean vs run
χ² / ndf 68.37 / 89
p0 −3158 ± 1121
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 90
Mean 7870
Std Dev 0
3
2
1
0
−1
−2

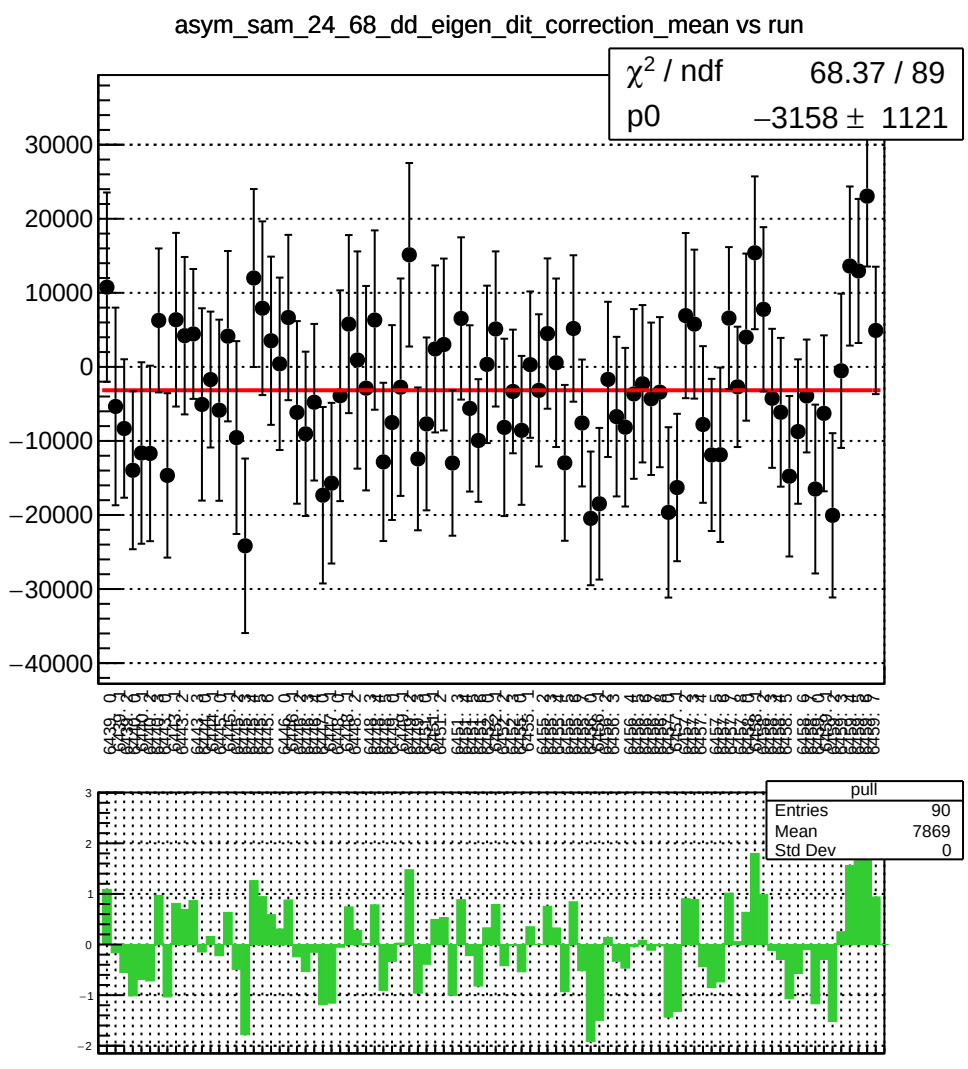

pull1D
Entries 90
Mean 0.0001789
Std Dev 0.8716
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

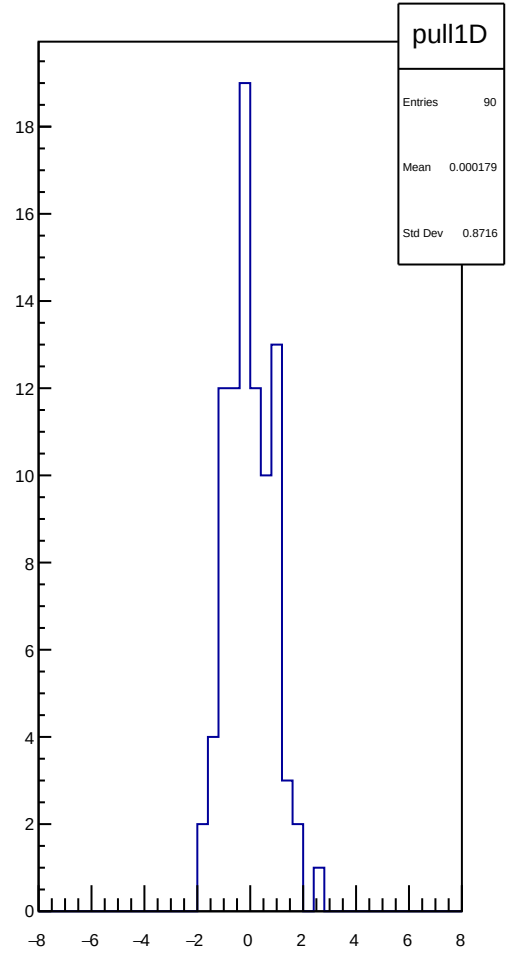

asym_sam_24_68_dd_dit_correction_rms vs run
χ² / ndf 1.87e+04 / 89
p0 1053 ± 0.793
1400
1300
1200
1100
1000
900
800

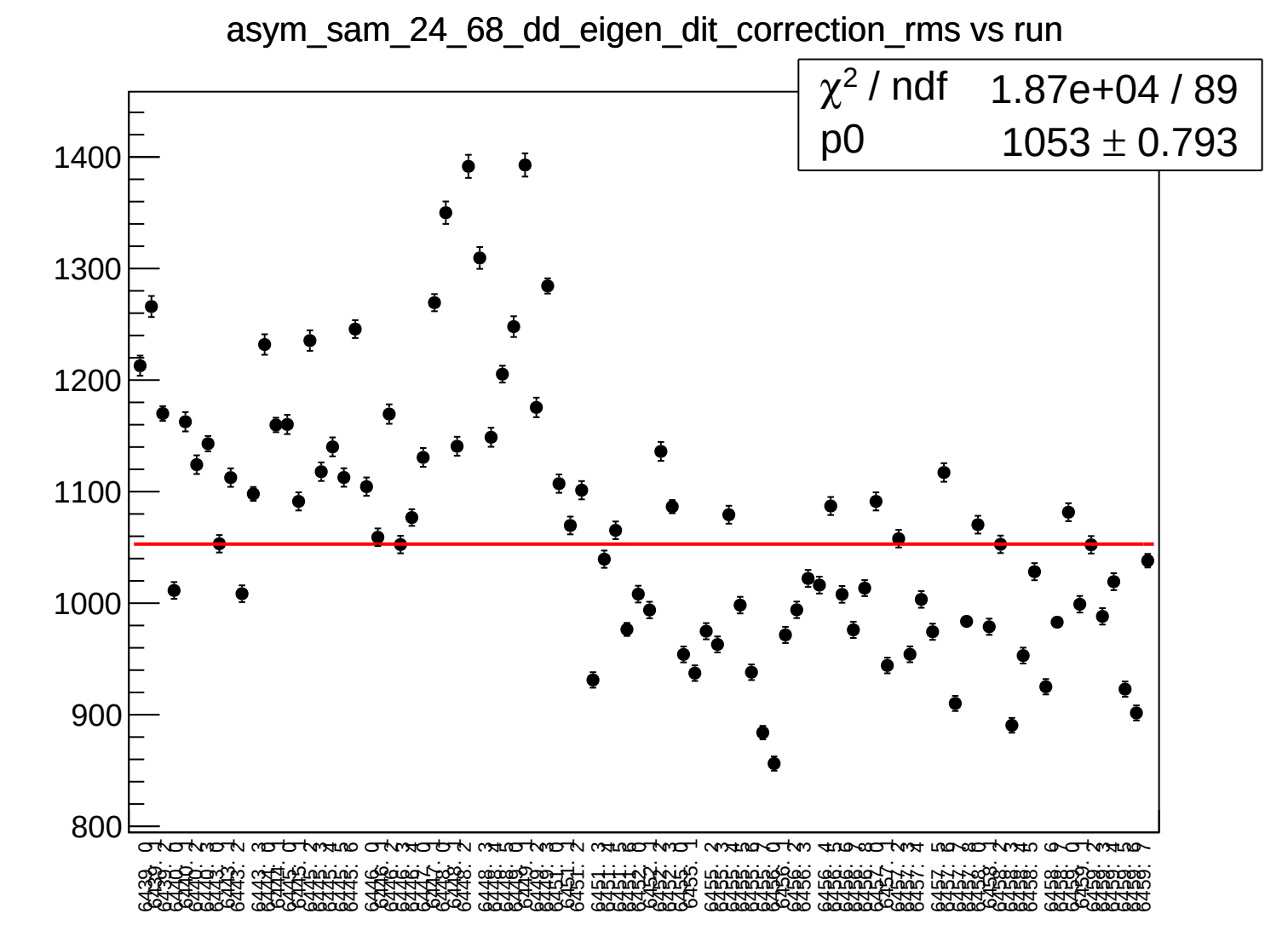

eigen_dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 98.2 / 89
p0 80.54 ± 99.23
pull
Entries 90
Mean −57.08
Std Dev 0

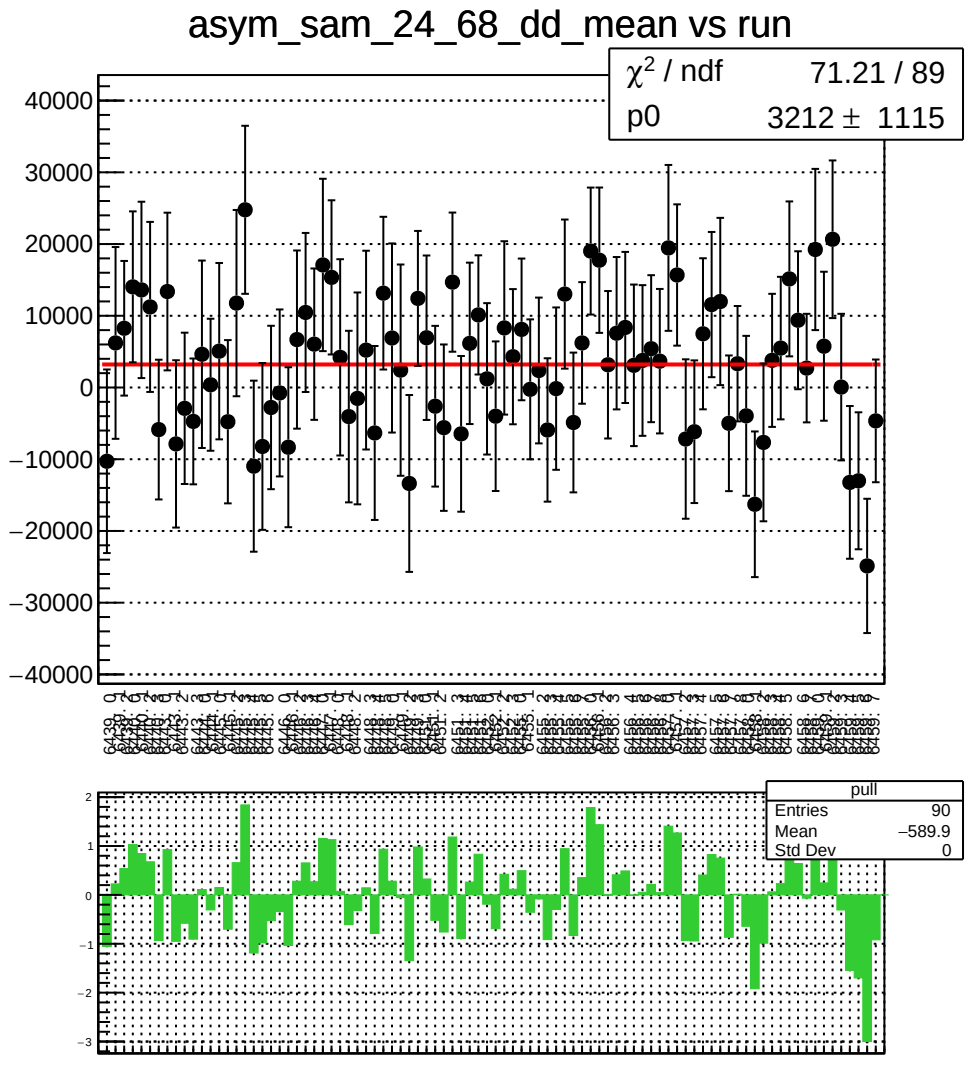

pull1D
Entries 90
Mean 0.01529
Std Dev 1.044

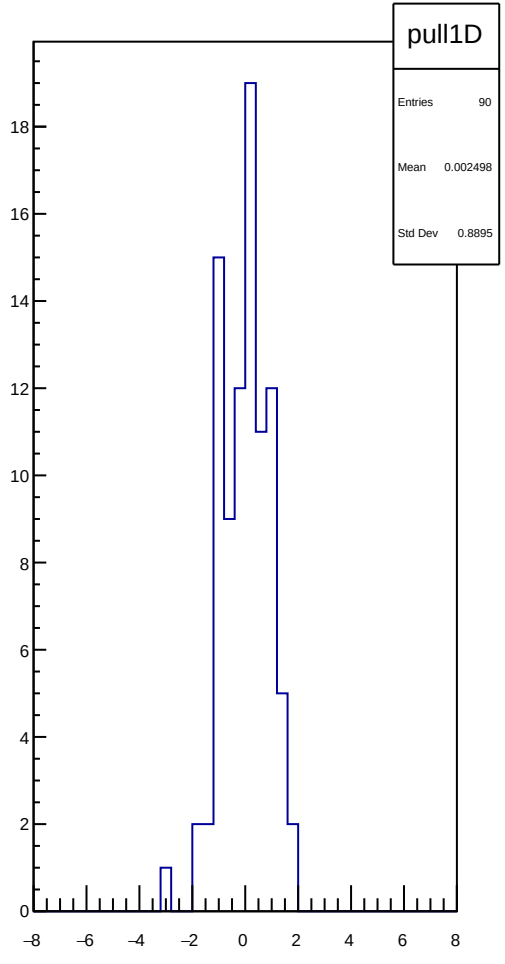

eigen_dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.931e+04 / 89
p0 93.16 ± 0.07017
260
240
220
200
180
160
140
120
100
80

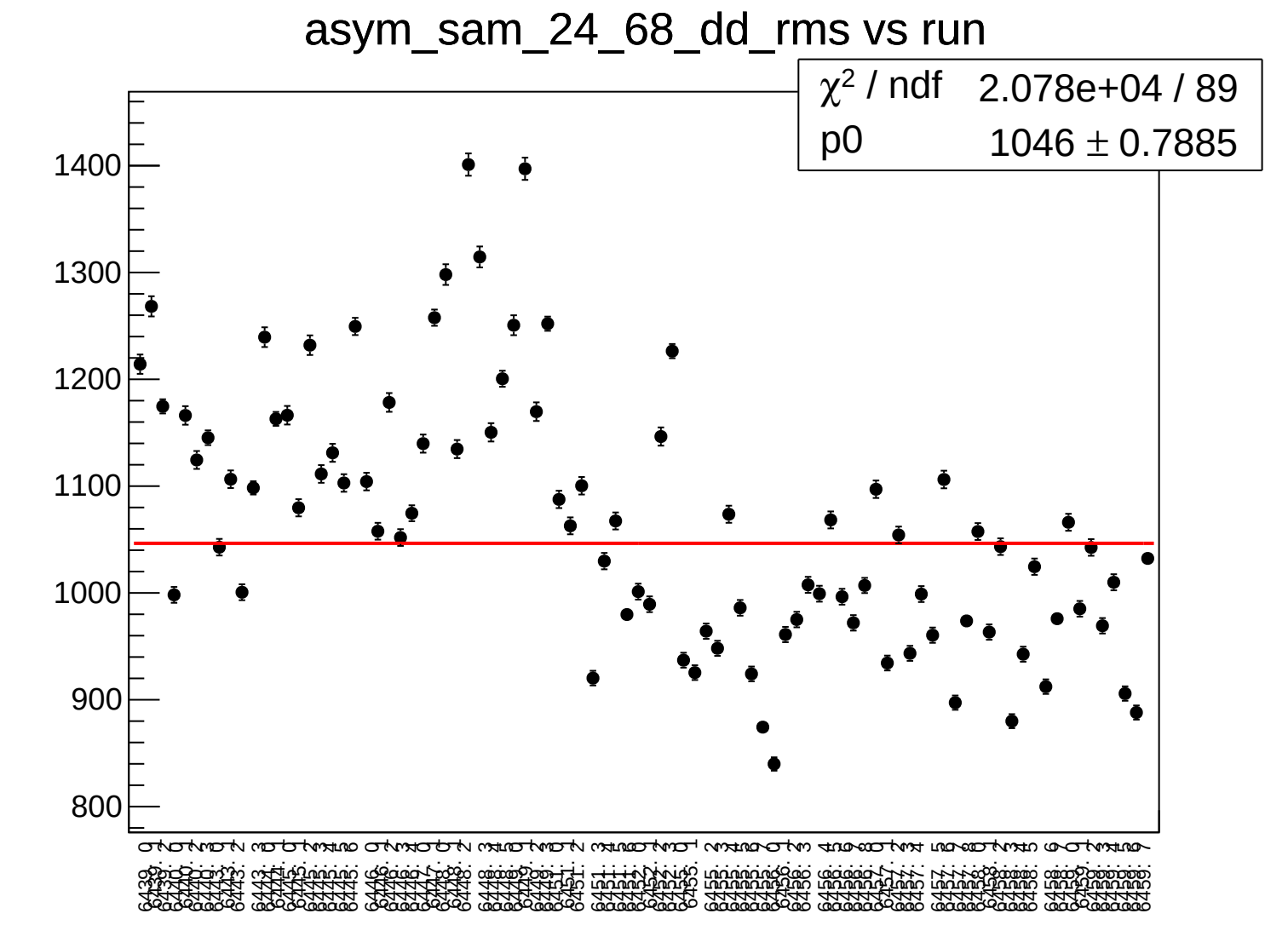

asym_sam_24_68_dd_eigen_dit_correction_mean vs run
χ² / ndf 68.37 / 89
p0 −3158 ± 1121
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 90
Mean 7869
Std Dev 0
3
2
1
0
−1
−2

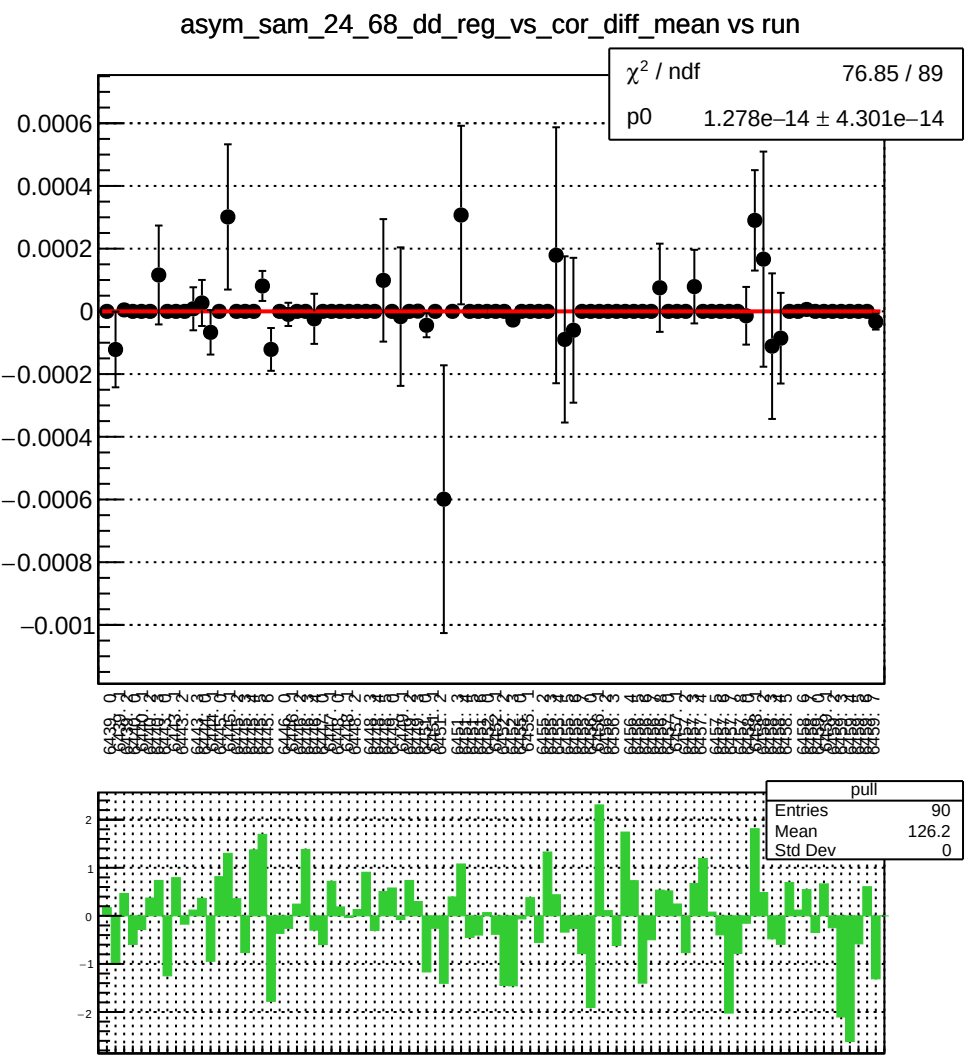

pull1D
Entries 90
Mean 0.000179
Std Dev 0.8716
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

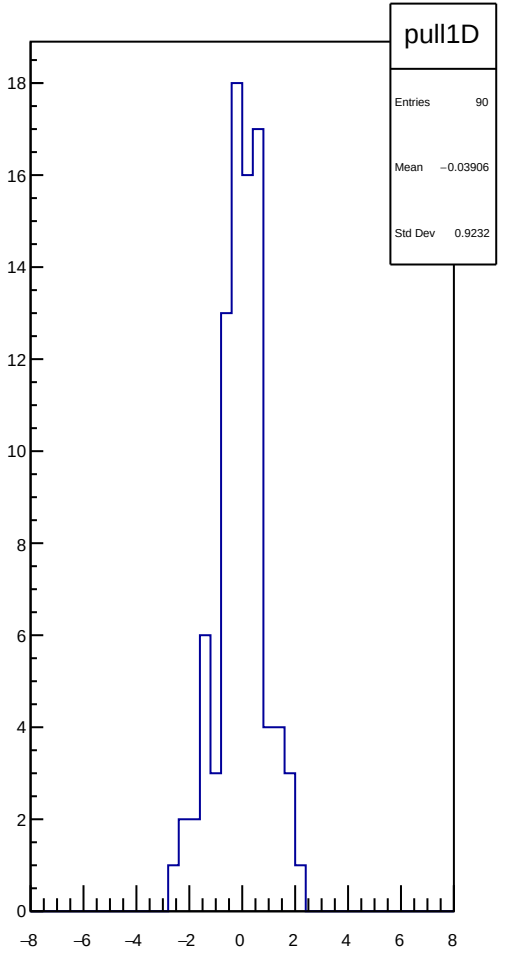

asym_sam_24_68_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.87e+04 / 89
p0 1053 ± 0.793
1400
1300
1200
1100
1000
900
800

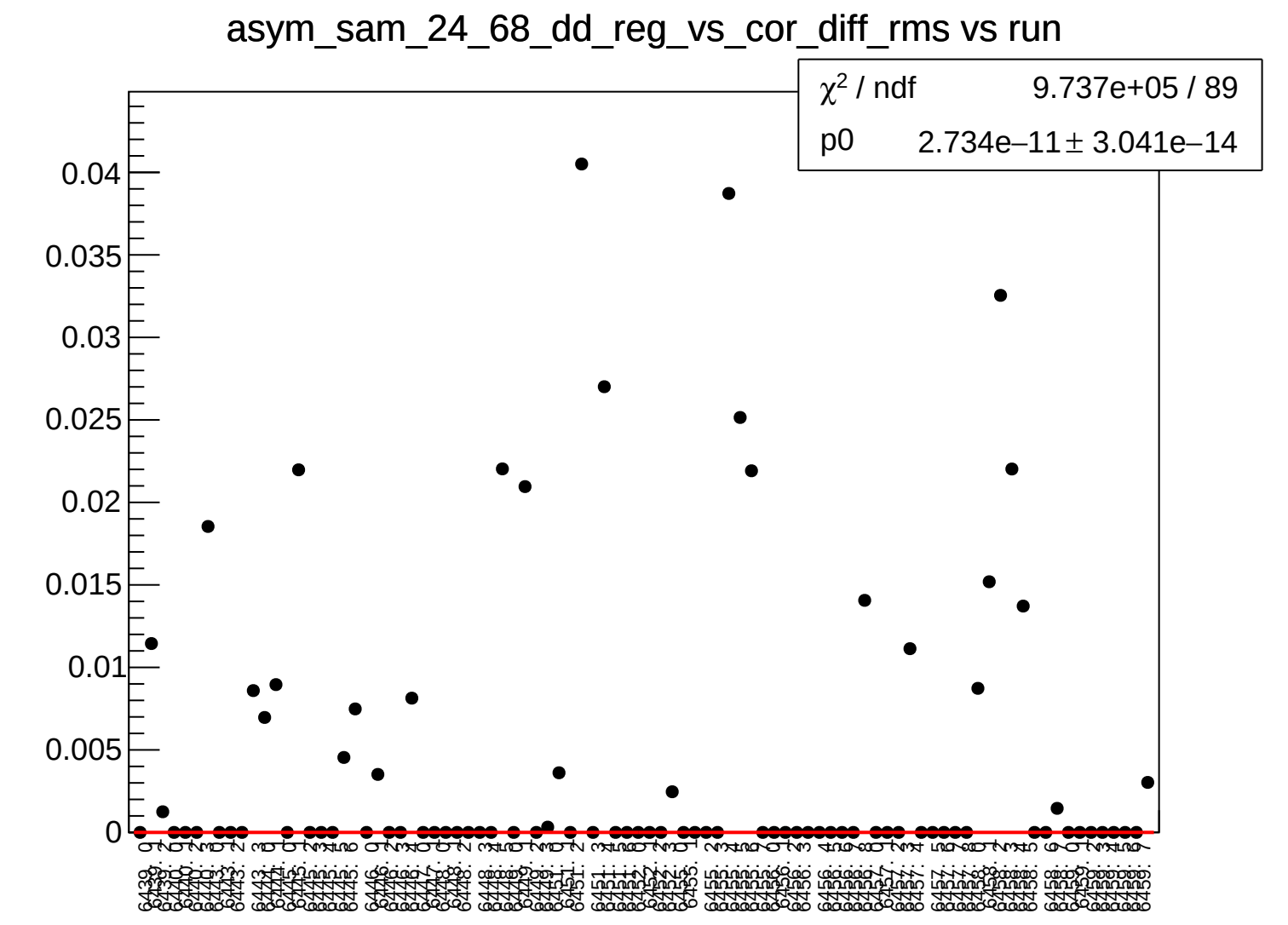

asym_sam_24_68_dd_mean vs run
χ² / ndf 71.21 / 89
p0 3212 ± 1115
pull
Entries 90
Mean −589.9
Std Dev 0

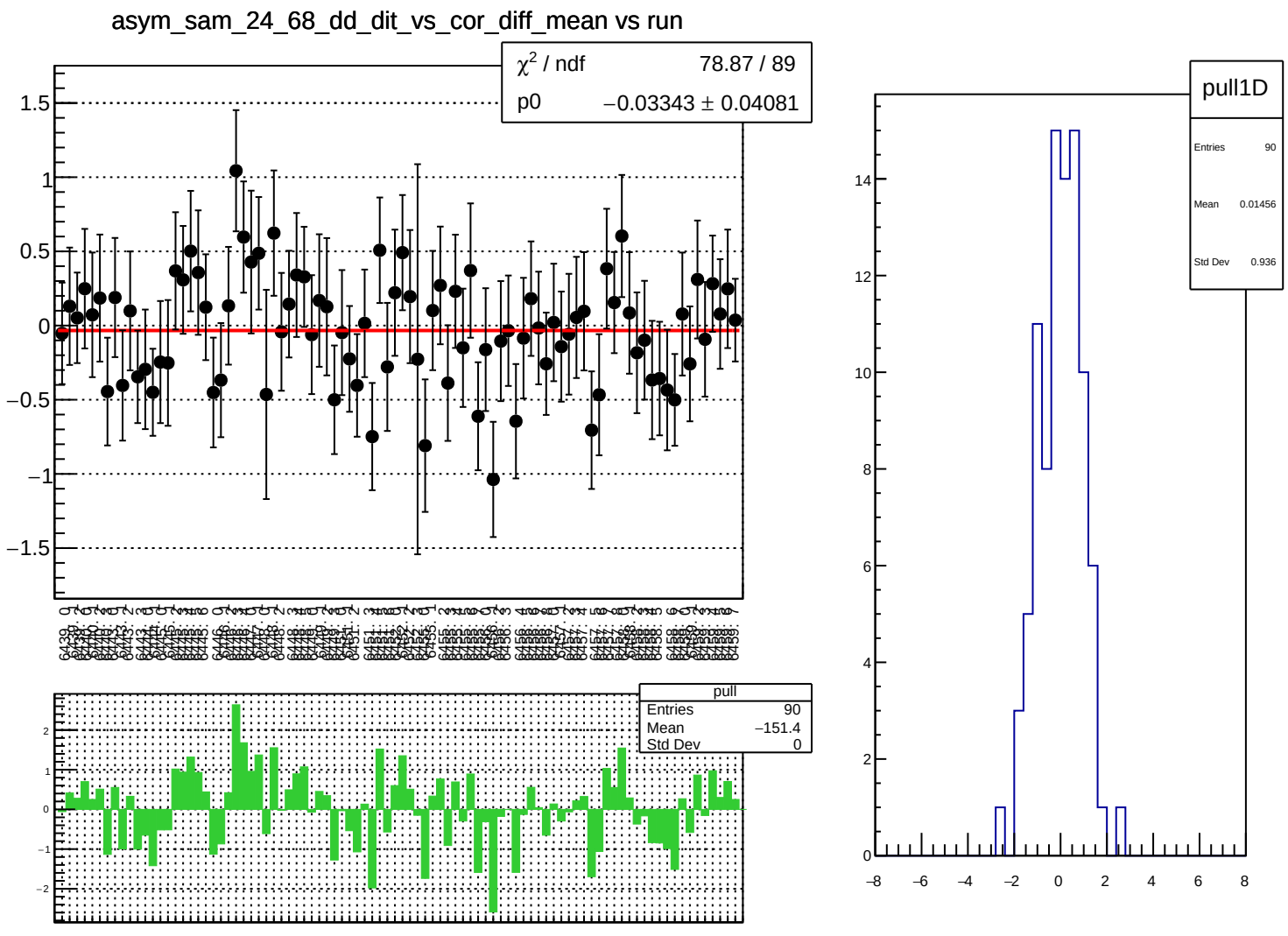

pull1D
Entries 90
Mean 0.002498
Std Dev 0.8895

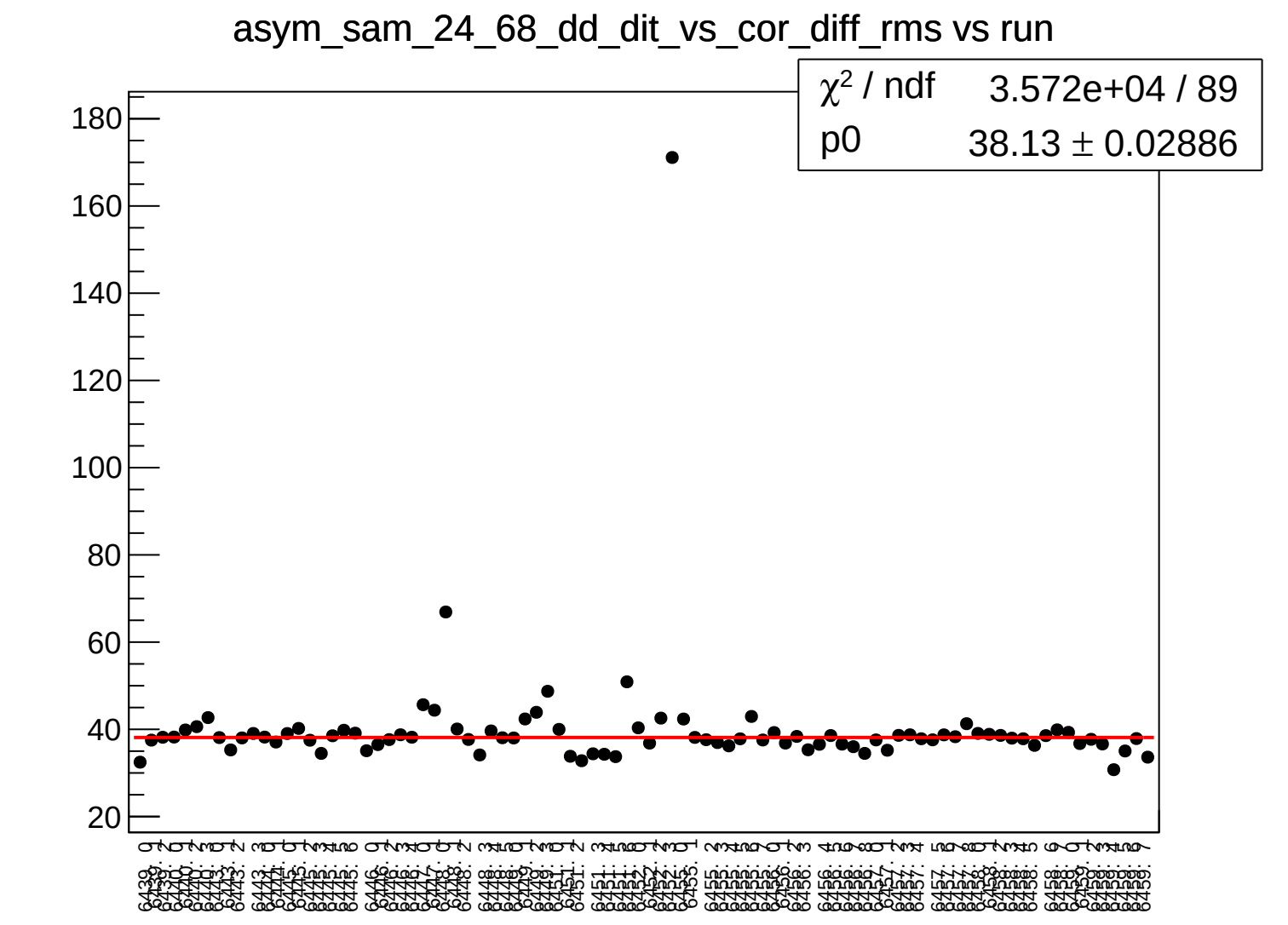

asym_sam_24_68_dd_rms vs run
χ² / ndf 2.078e+04 / 89
p0 1046 ± 0.7885
1400
1300
1200
1100
1000
900
800

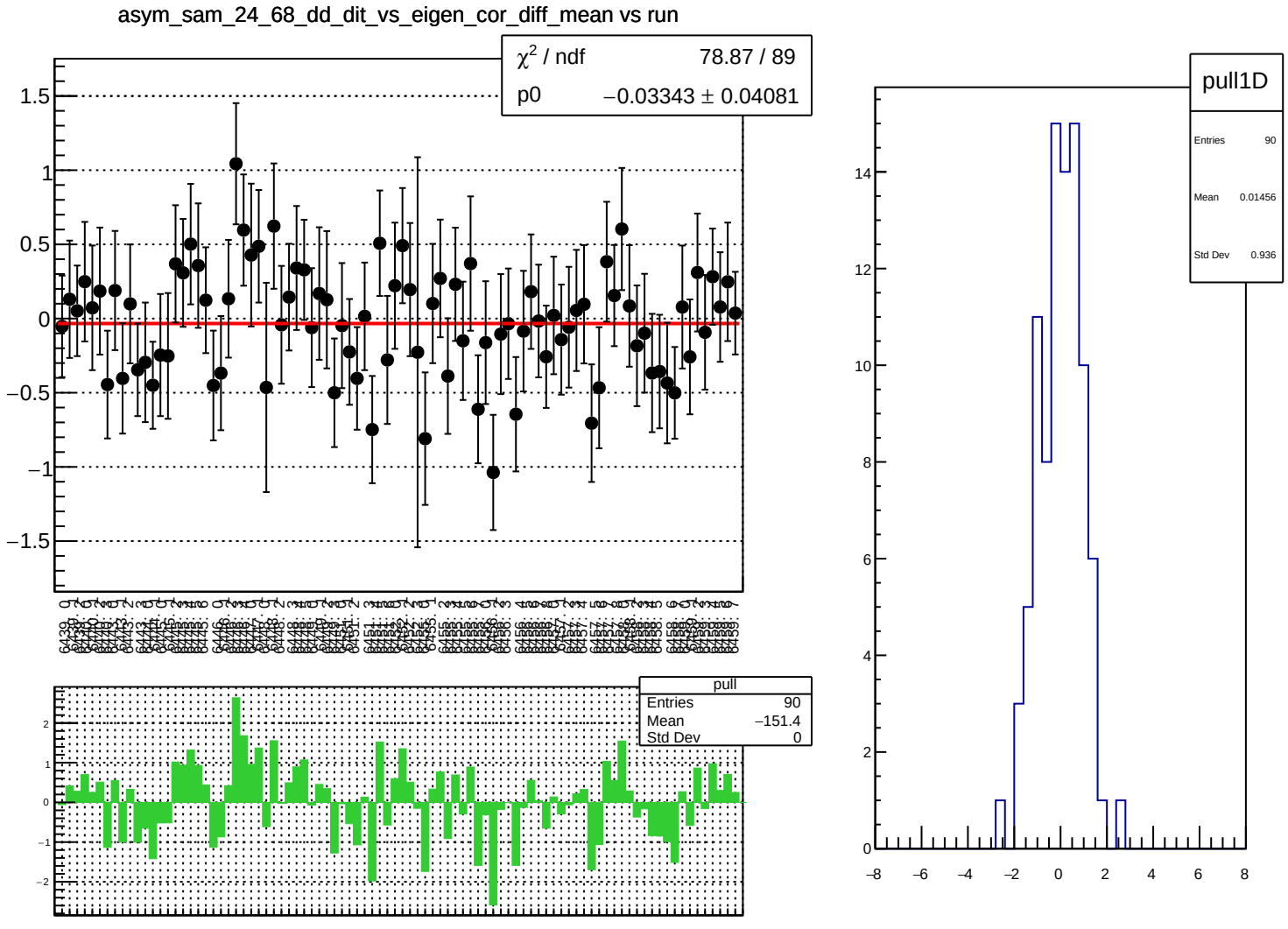

asym_sam_24_68_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 76.85 / 89
p0 1.278e−14 ± 4.301e−14
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 90
Mean 126.2
Std Dev 0
2
1
0
−1
−2

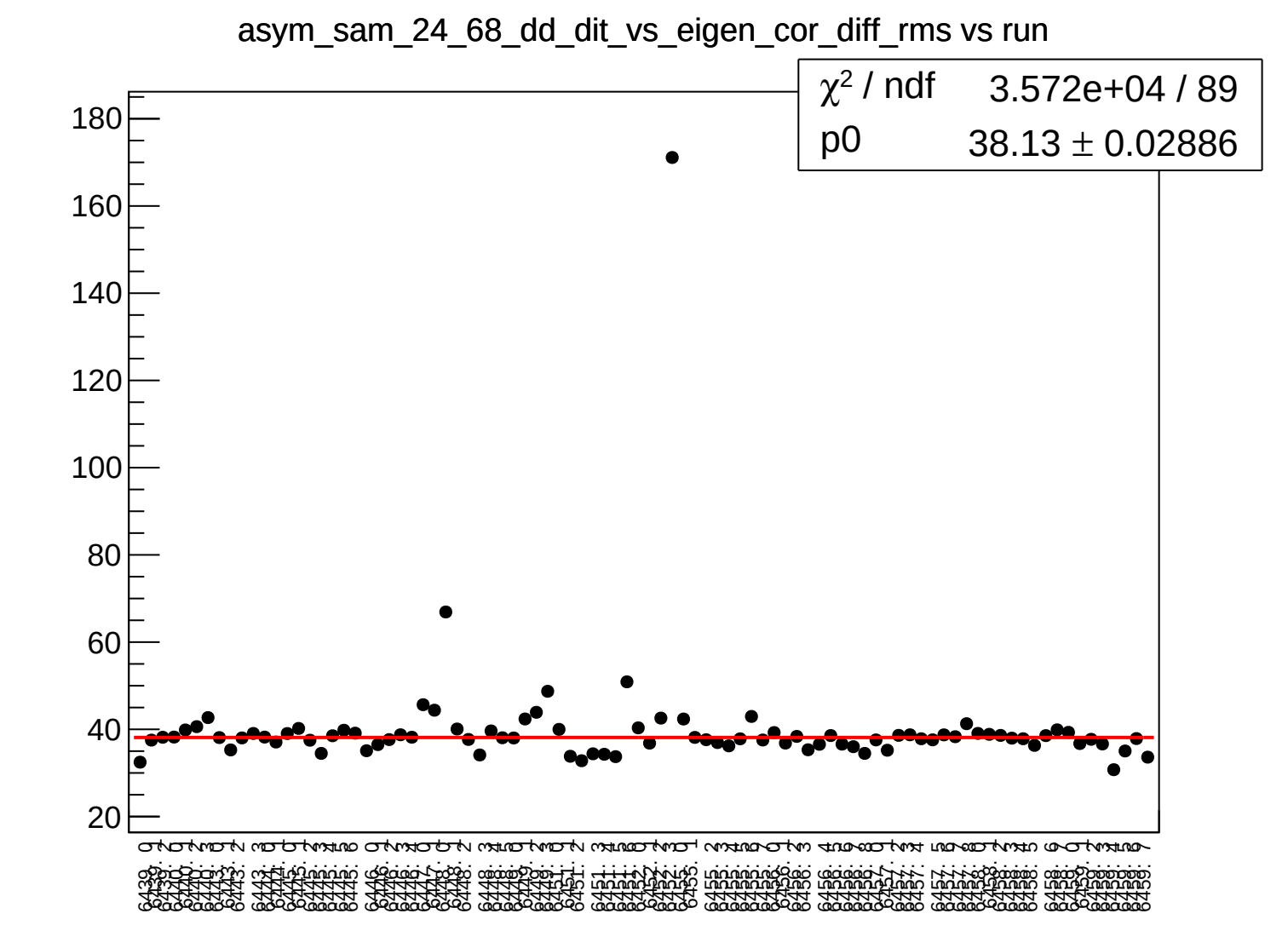

pull1D
Entries 90
Mean −0.03906
Std Dev 0.9232
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

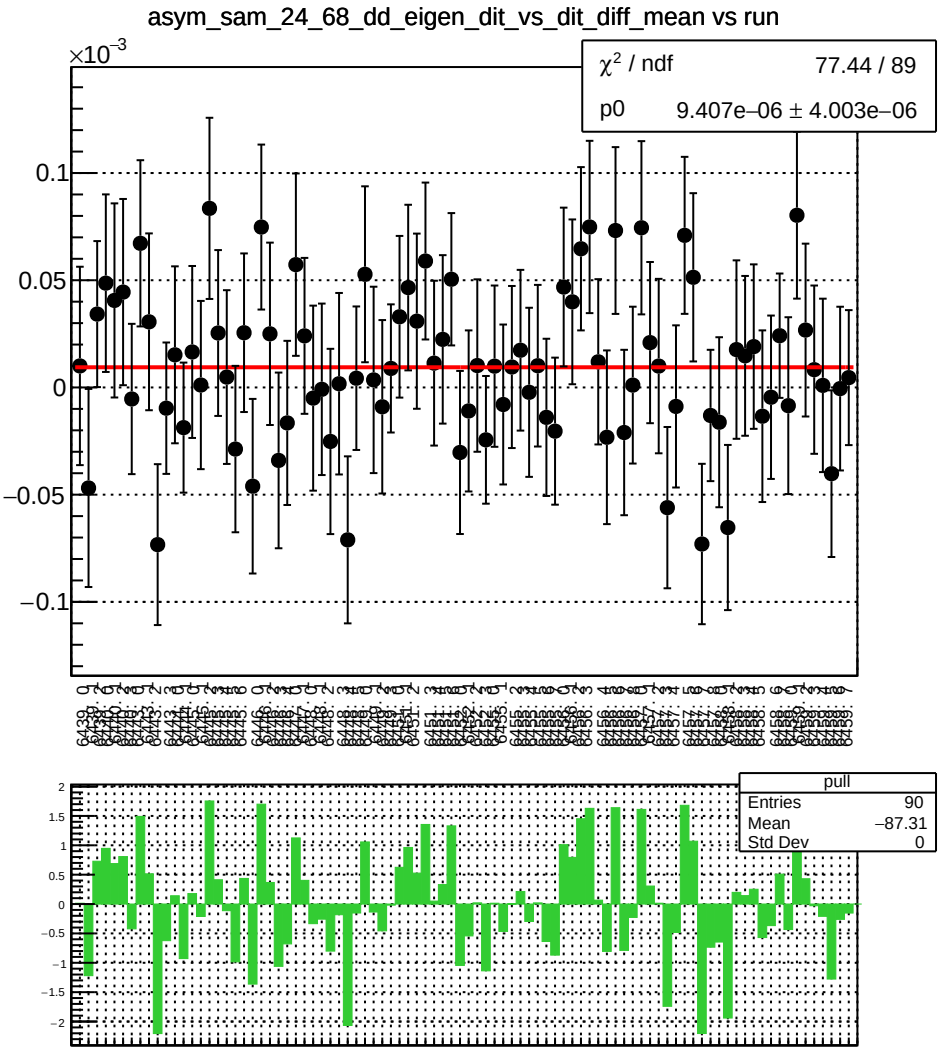

asym_sam_24_68_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.737e+05 / 89
p0 2.734e−11 ± 3.041e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

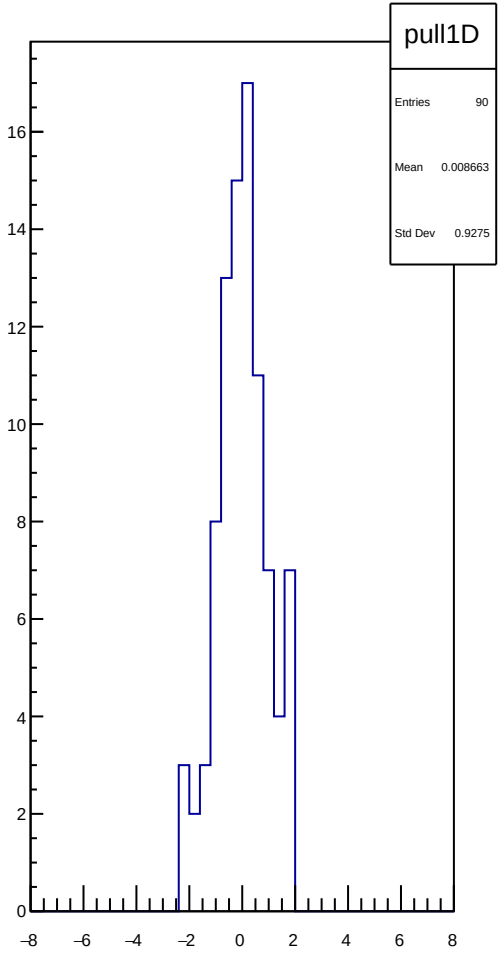

asym_sam_24_68_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 78.87 / 89
p0 −0.03343 ± 0.04081
pull
Entries 90
Mean −151.4
Std Dev 0
pull1D
Entries 90
Mean 0.01456
Std Dev 0.936

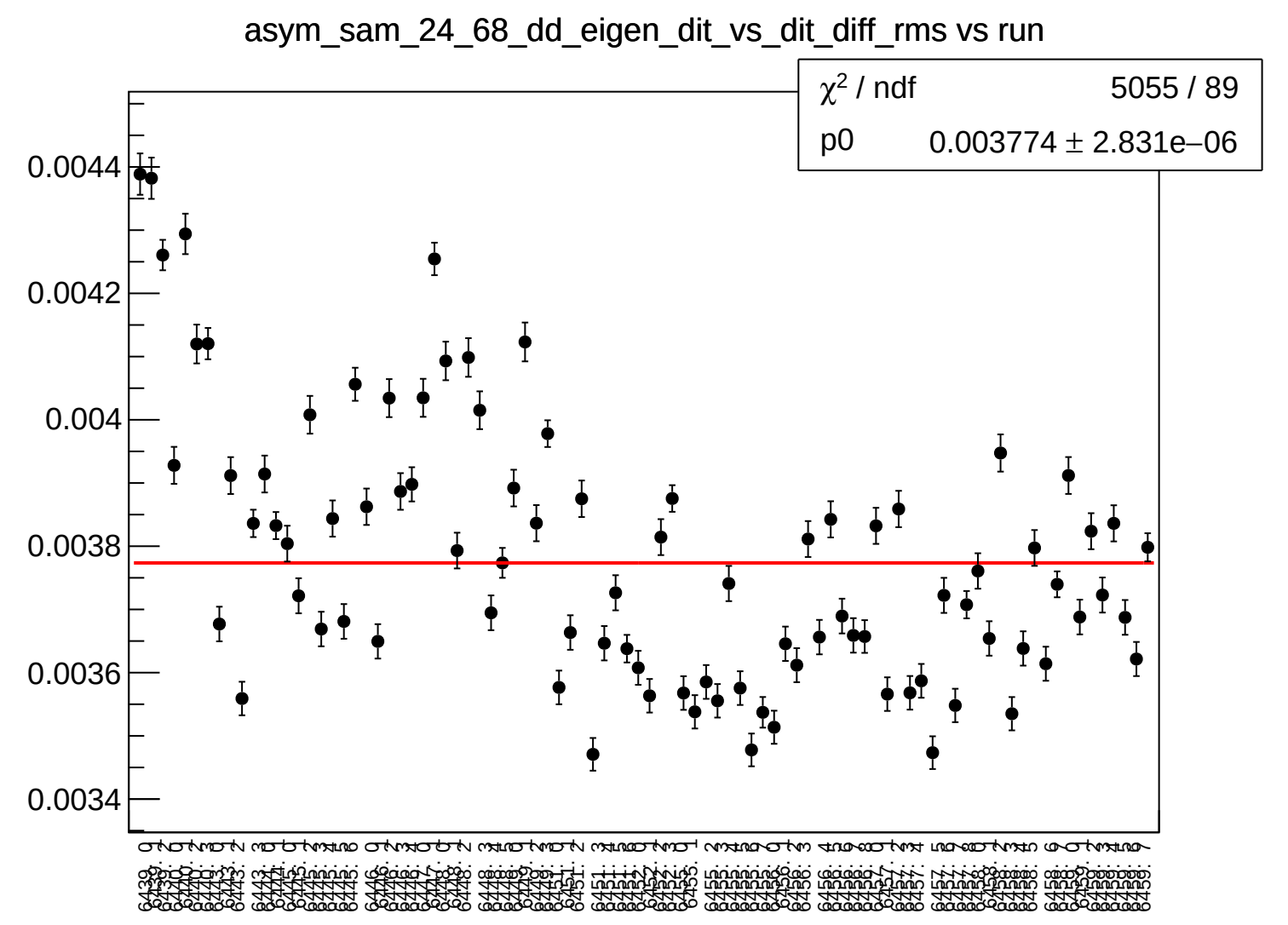

asym_sam_24_68_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.572e+04 / 89
p0 38.13 ± 0.02886
180
160
140
120
100
80
60
40
20

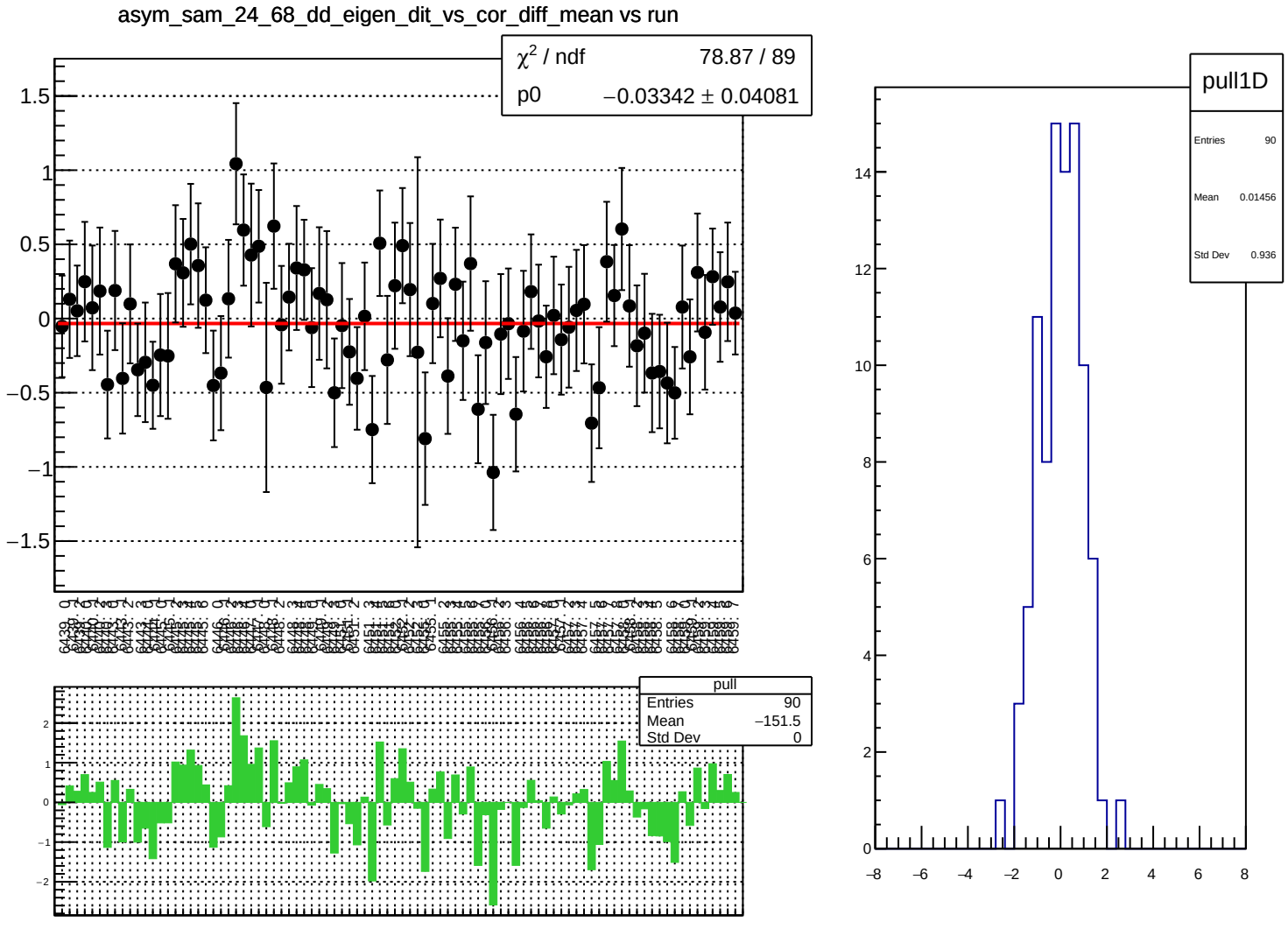

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.87 / 89
p0 −0.03343 ± 0.04081
pull
Entries 90
Mean −151.4
Std Dev 0
pull1D
Entries 90
Mean 0.01456
Std Dev 0.936

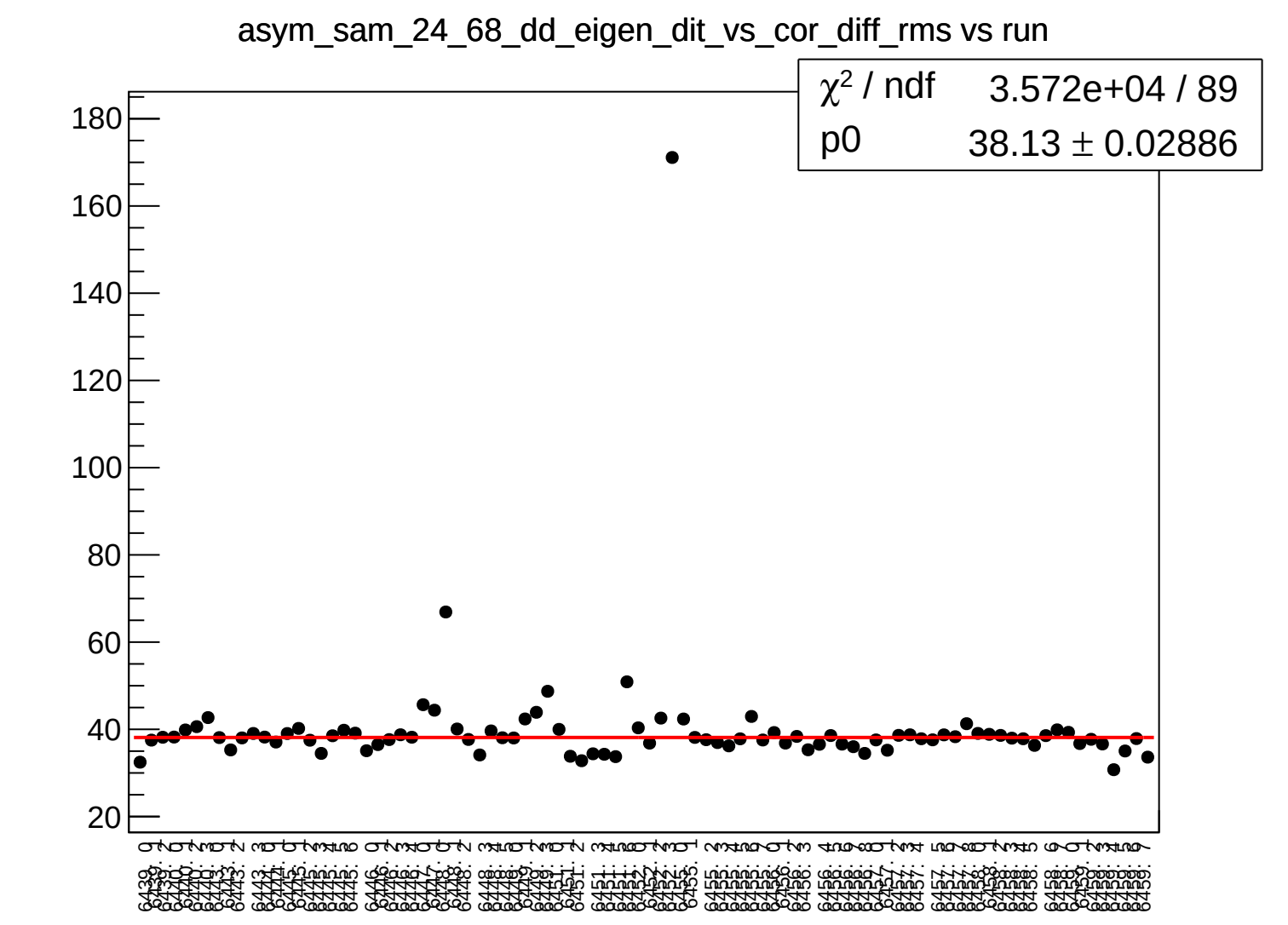

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.572e+04 / 89
p0 38.13 ± 0.02886
180
160
140
120
100
80
60
40
20

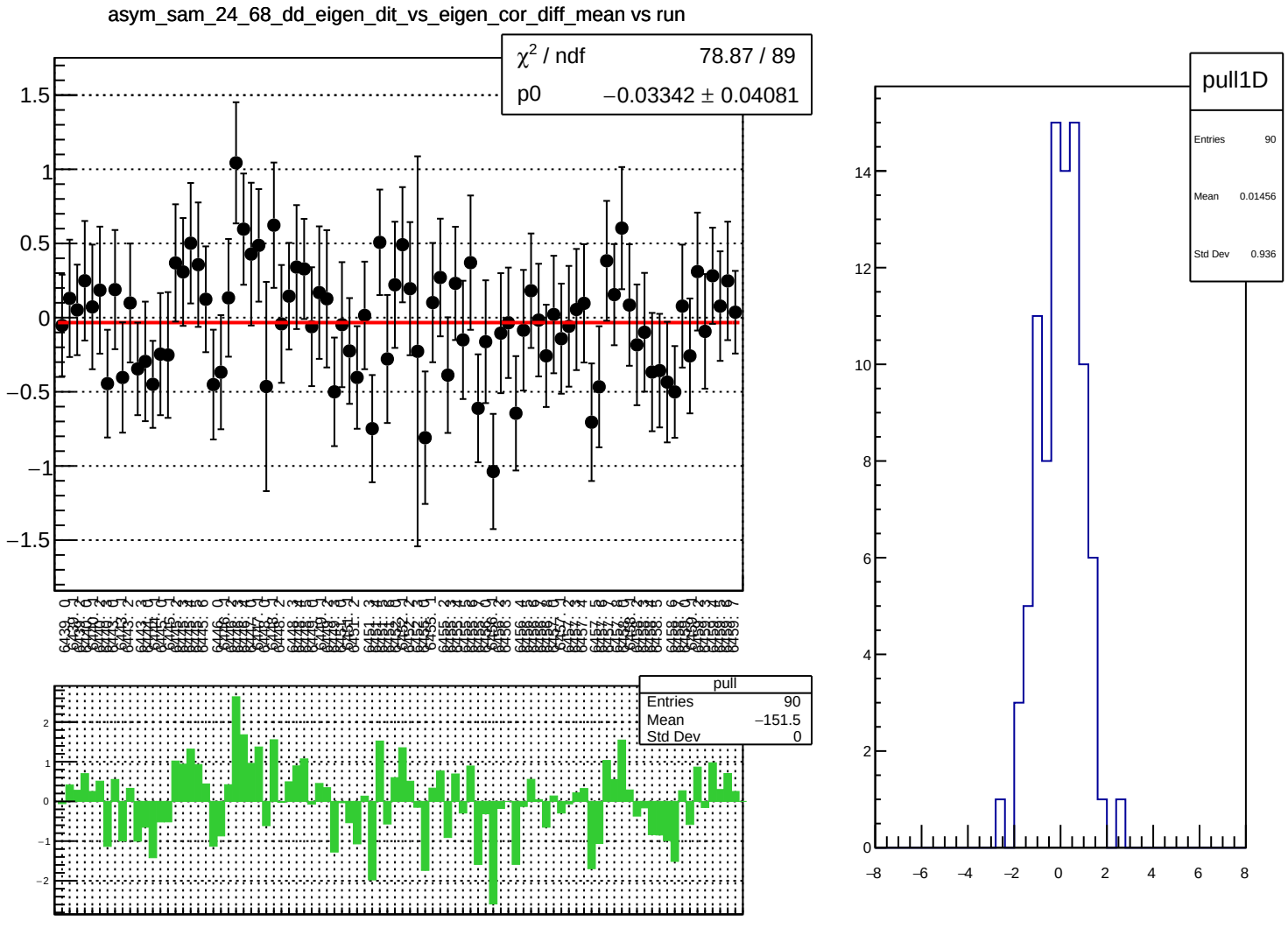

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 77.44 / 89
p0 9.407e−06 ± 4.003e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 90
Mean −87.31
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

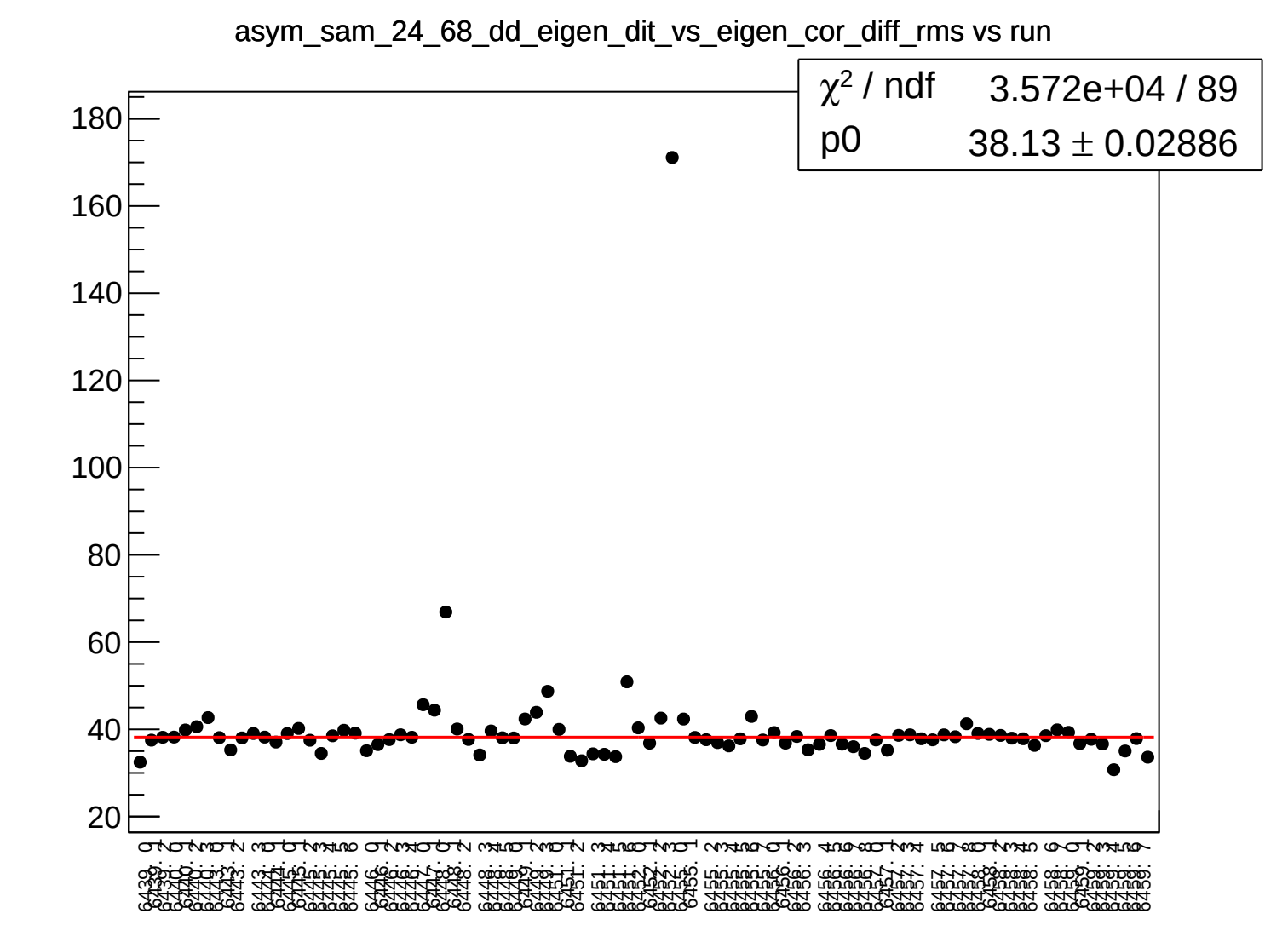

pull1D
Entries 90
Mean 0.008663
Std Dev 0.9275
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

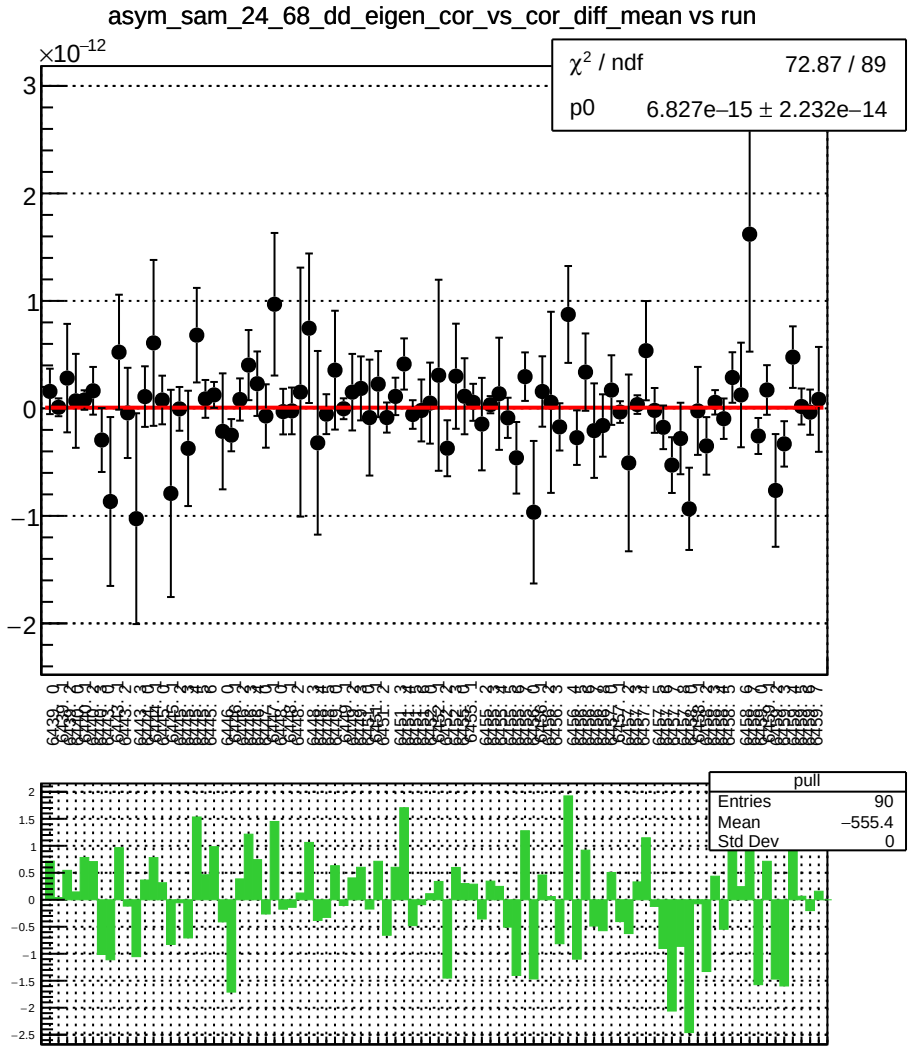

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5055 / 89
p0 0.003774 ± 2.831e−06
0.0044
0.0042
0.004
0.0038
0.0036
0.0034

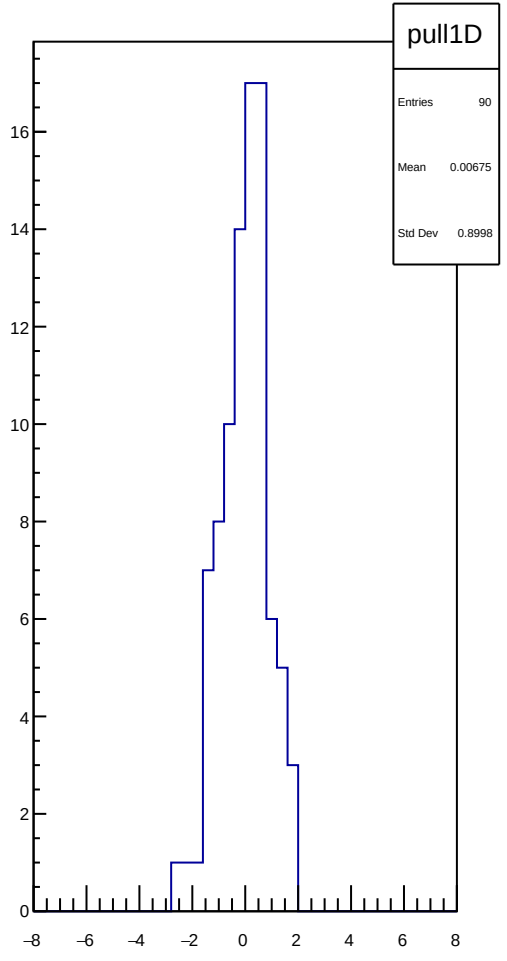

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.87 / 89
p0 −0.03342 ± 0.04081
pull
Entries 90
Mean −151.5
Std Dev 0
pull1D
Entries 90
Mean 0.01456
Std Dev 0.936

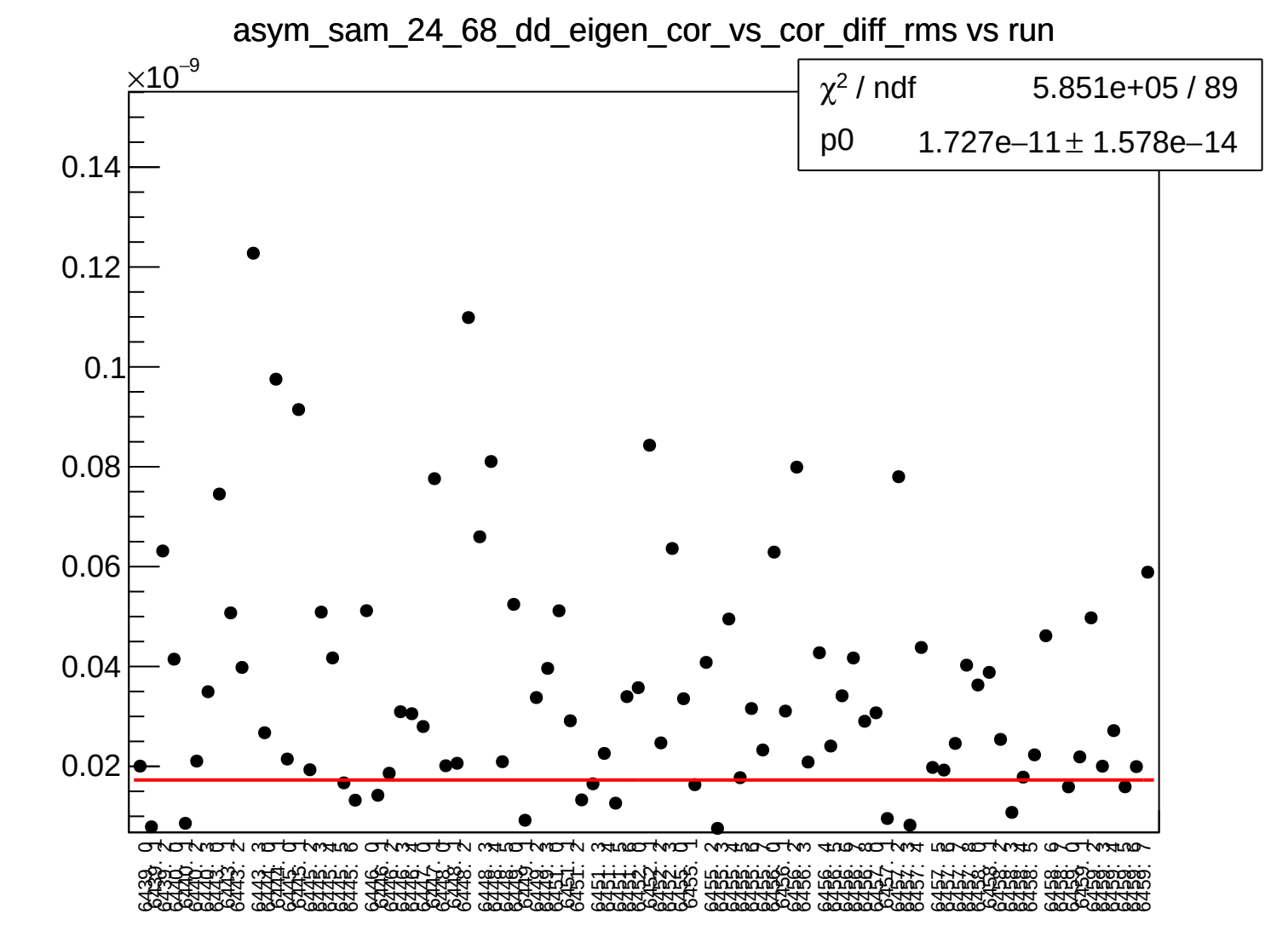

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.572e+04 / 89
p0 38.13 ± 0.02886
180
160
140
120
100
80
60
40
20

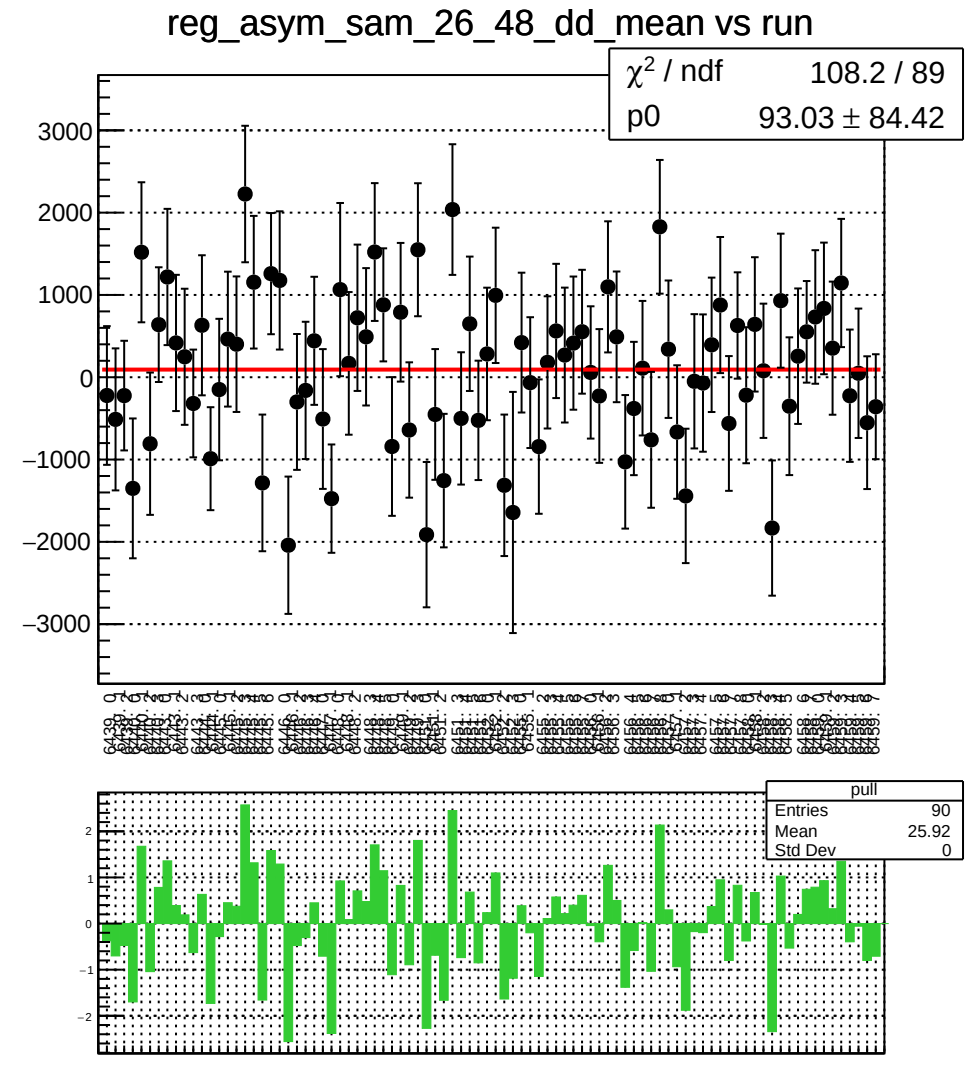

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.87 / 89
p0 −0.03342 ± 0.04081
pull
Entries 90
Mean −151.5
Std Dev 0
pull1D
Entries 90
Mean 0.01456
Std Dev 0.936

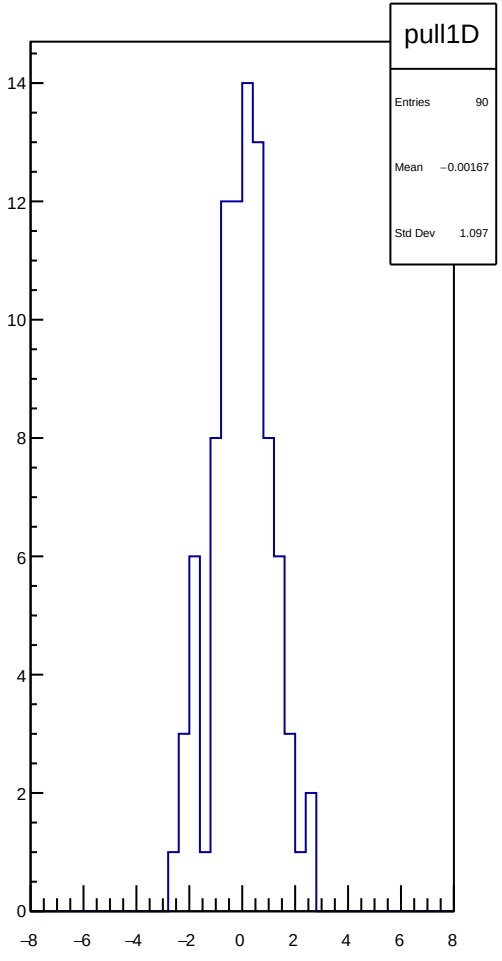

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.572e+04 / 89
p0 38.13 ± 0.02886
180
160
140
120
100
80
60
40
20

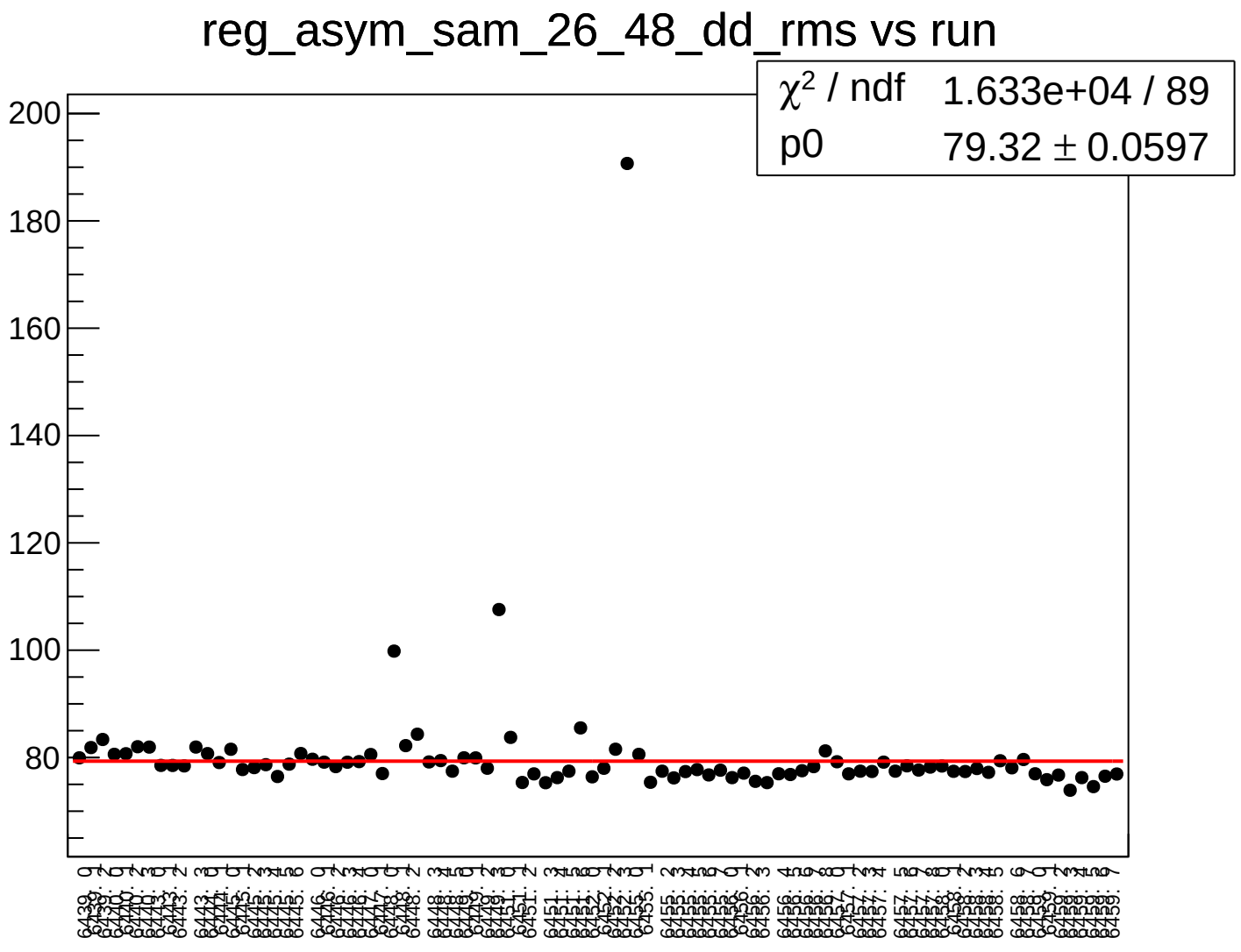

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 72.87 / 89
p0 6.827e−15 ± 2.232e−14
pull
Entries 90
Mean −555.4
Std Dev 0

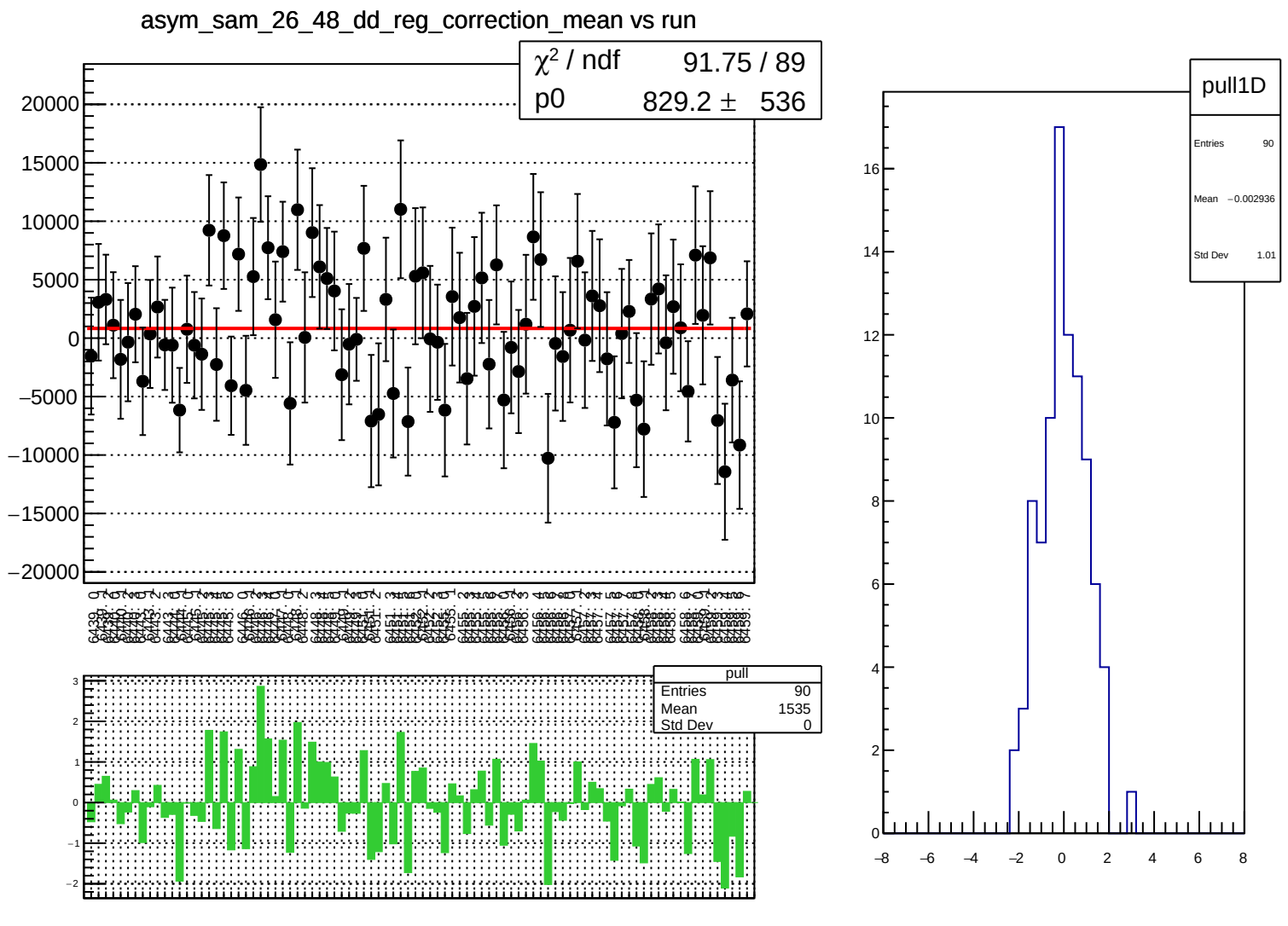

pull1D
Entries 90
Mean 0.00675
Std Dev 0.8998

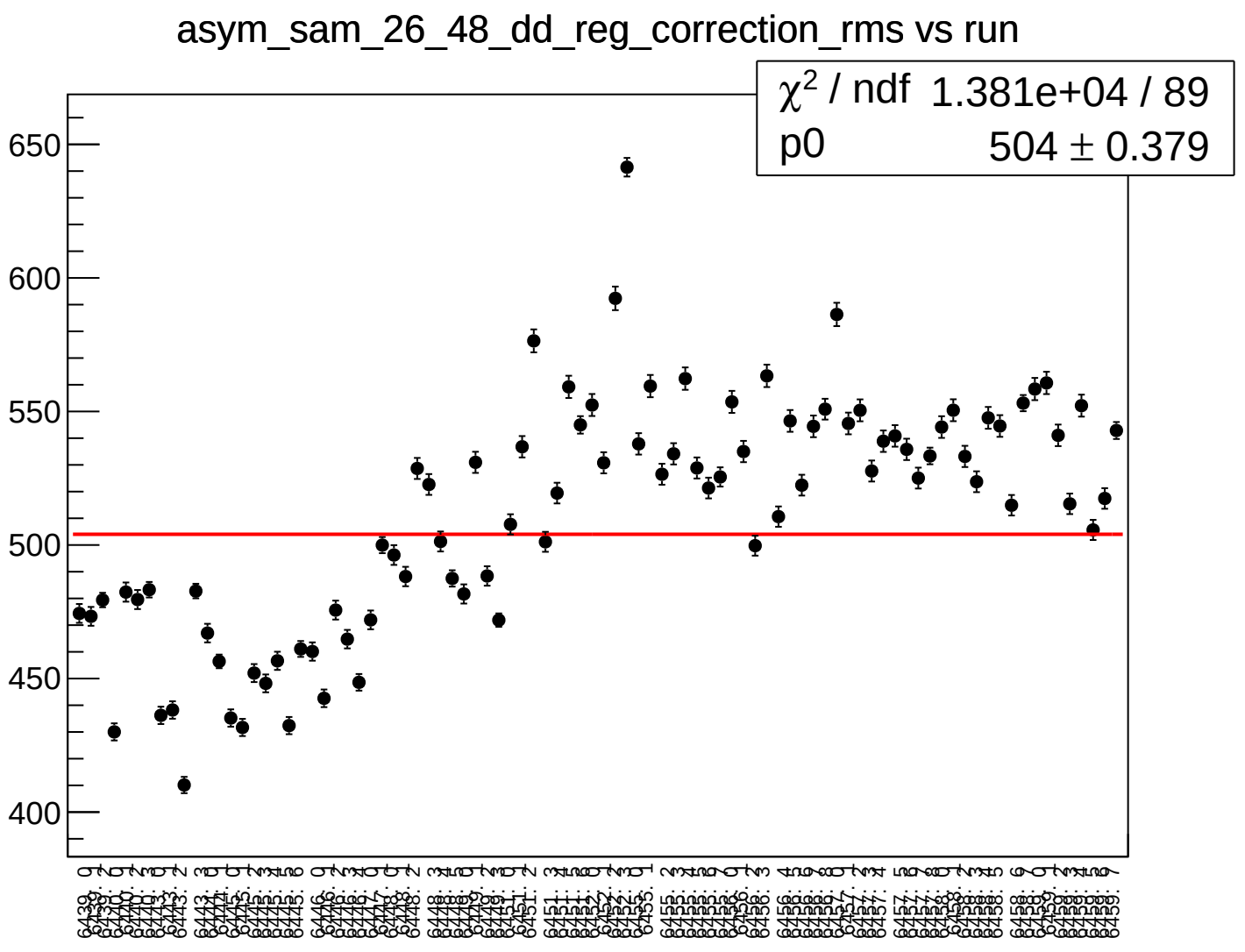

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.851e+05 / 89
p0 1.727e−11 ± 1.578e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

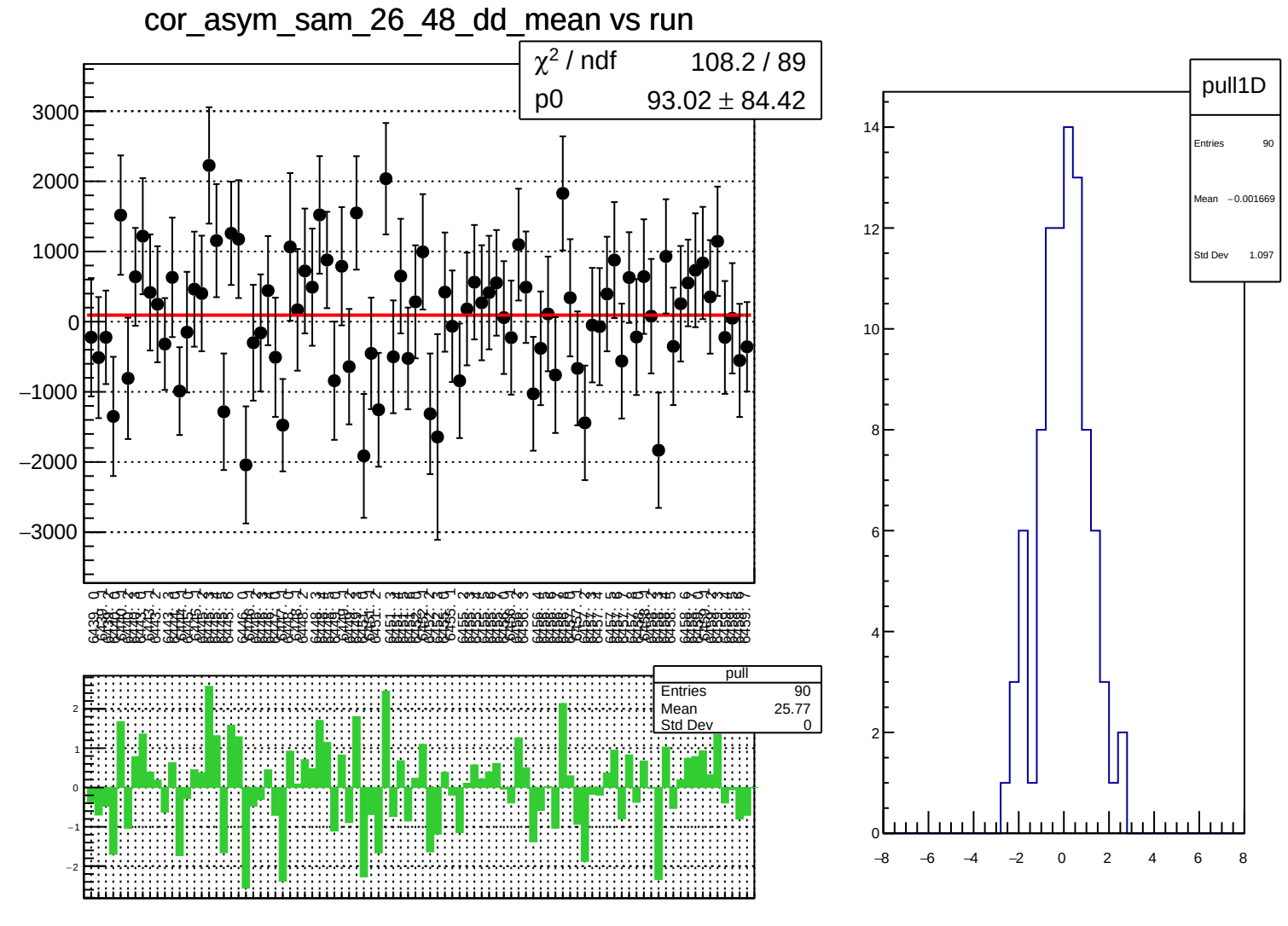

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 108.2 / 89
p0 93.03 ± 84.42
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 90
Mean 25.92
Std Dev 0
2
1
0
−1
−2

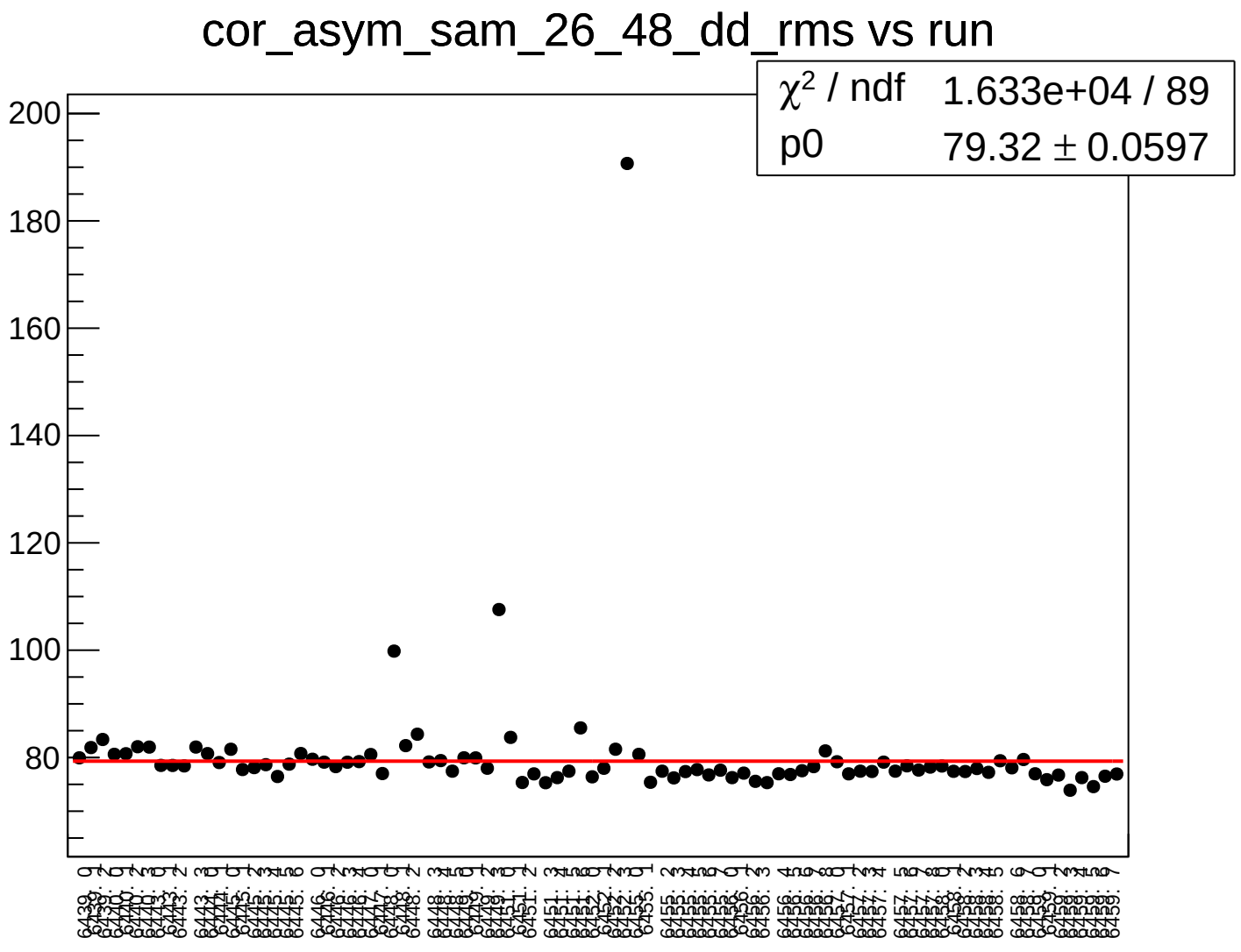

pull1D
Entries 90
Mean −0.00167
Std Dev 1.097
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

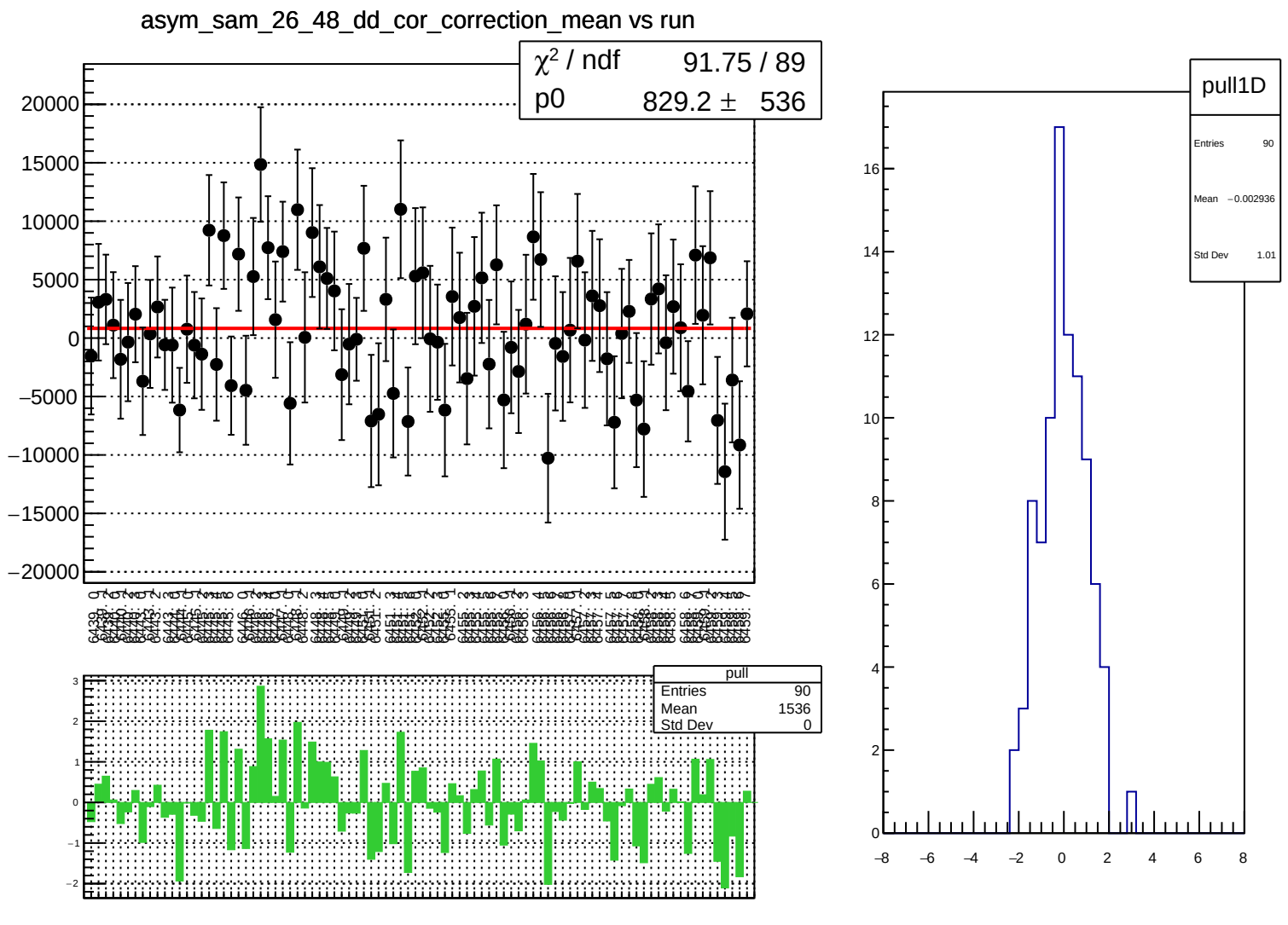

reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 1.633e+04 / 89
p0 79.32 ± 0.0597
200
180
160
140
120
100
80

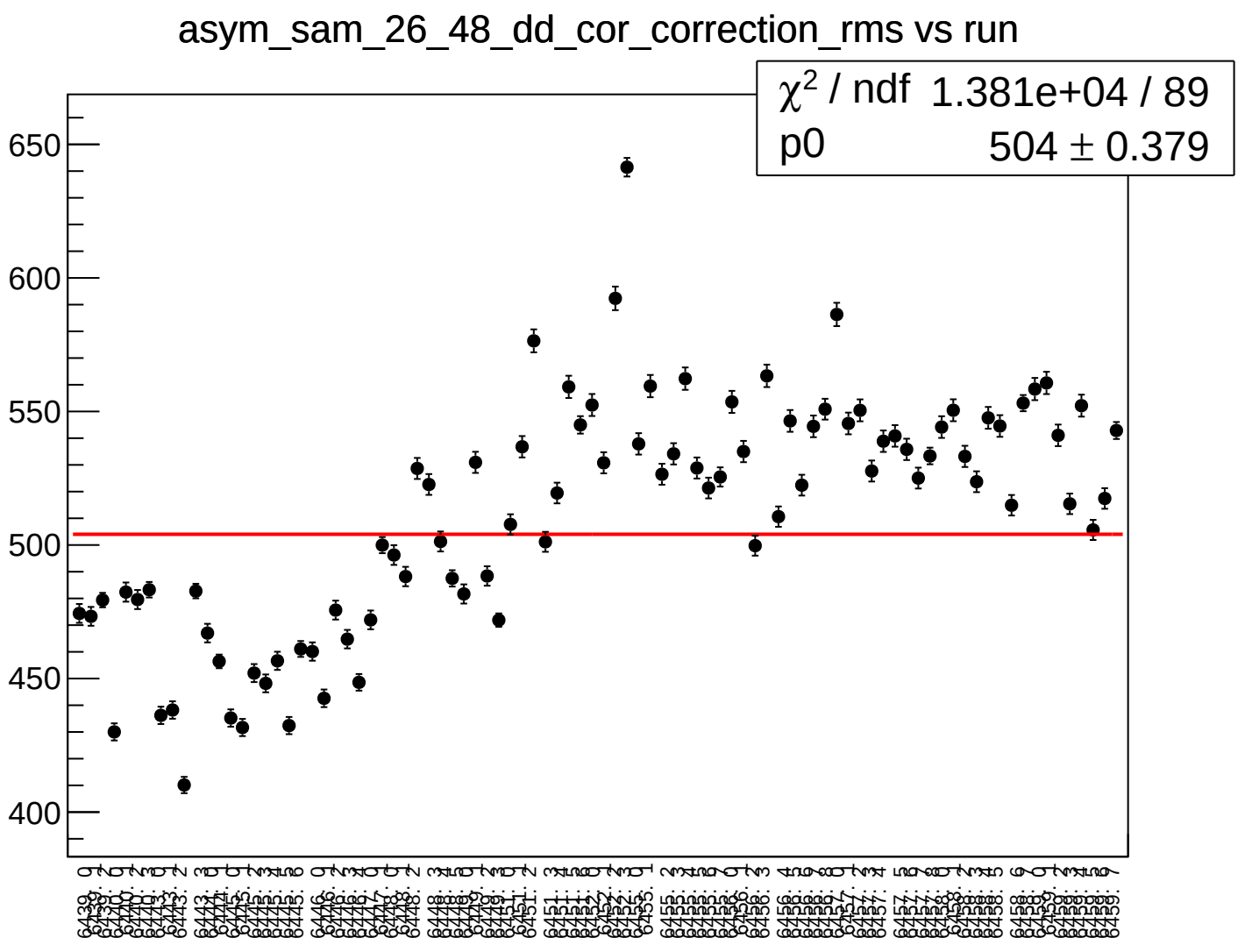

asym_sam_26_48_dd_reg_correction_mean vs run
χ² / ndf 91.75 / 89
p0 829.2 ± 536
pull
Entries 90
Mean 1535
Std Dev 0
pull1D
Entries 90
Mean −0.002936
Std Dev 1.01

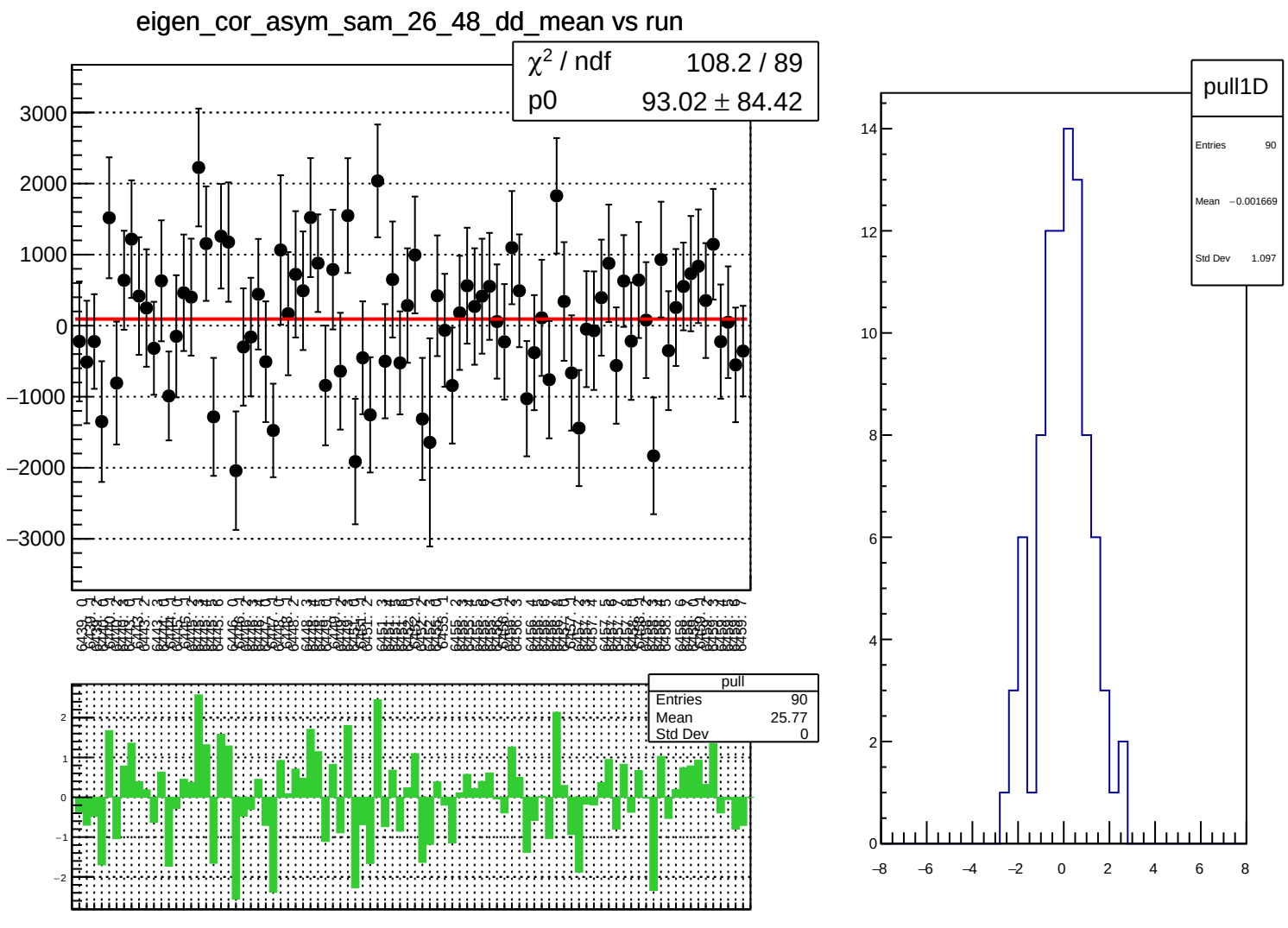

asym_sam_26_48_dd_reg_correction_rms vs run
χ² / ndf 1.381e+04 / 89
p0 504 ± 0.379
650
600
550
500
450
400

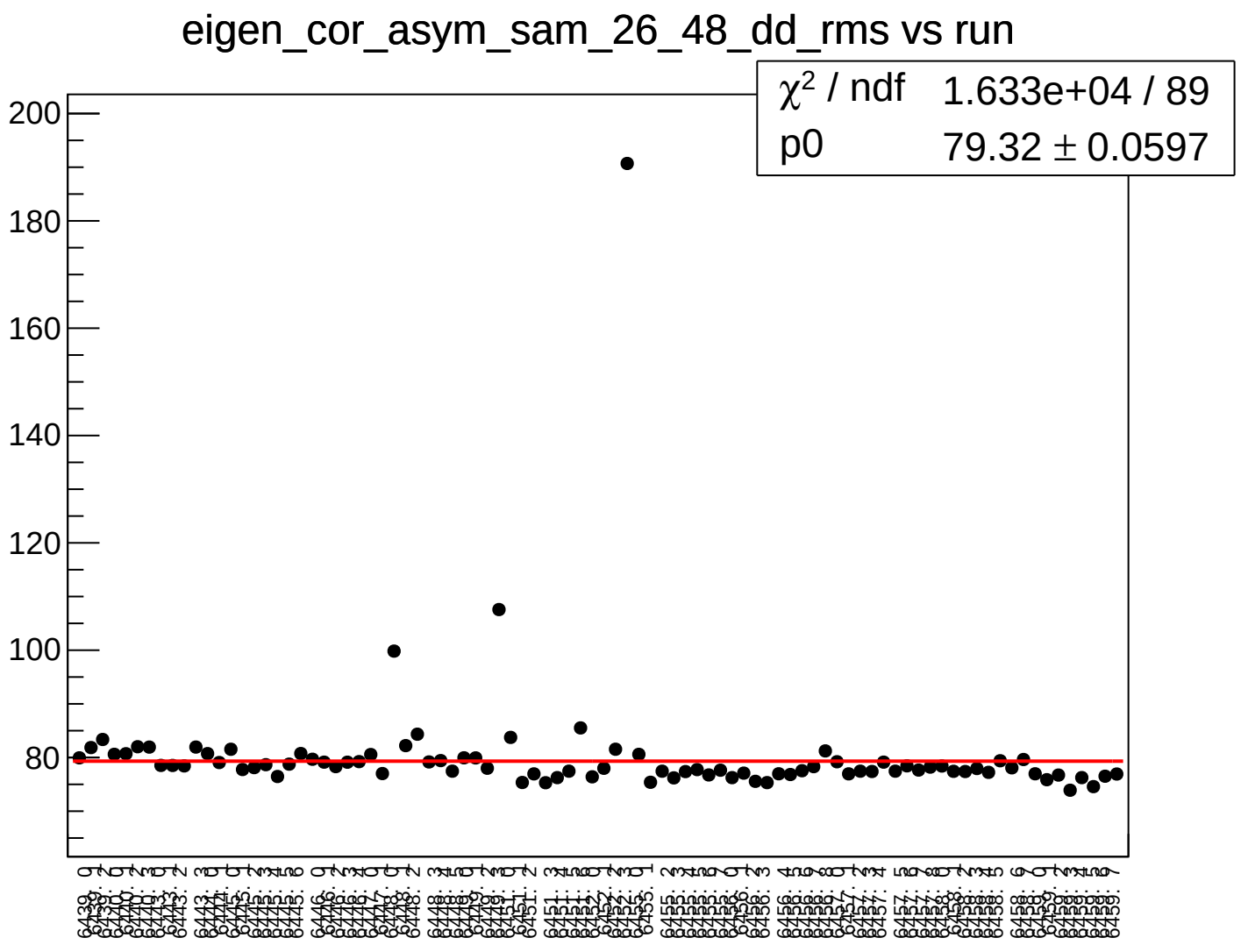

cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 108.2 / 89
p0 93.02 ± 84.42
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 90
Mean 25.77
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.001669
Std Dev 1.097
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

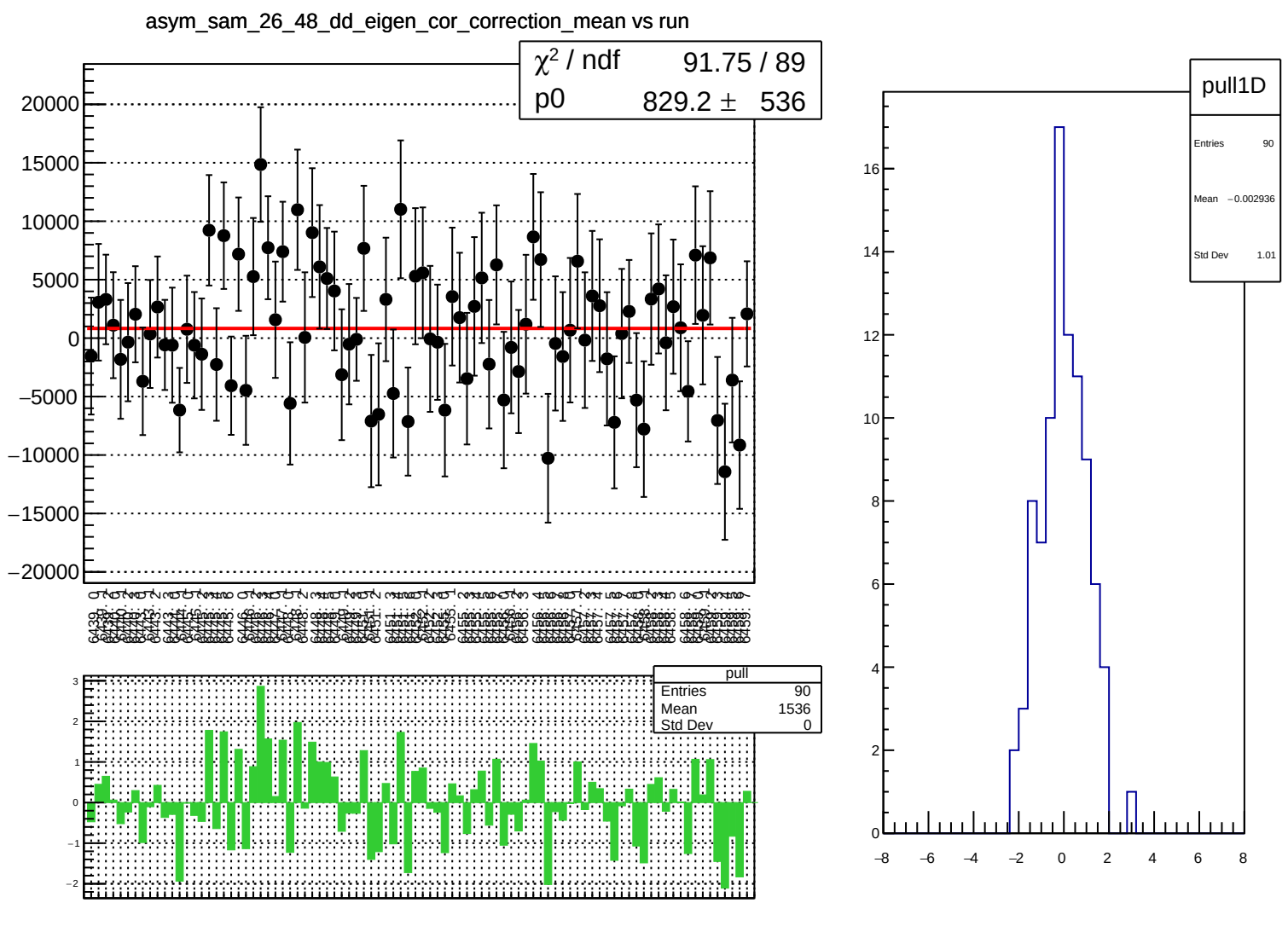

cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 1.633e+04 / 89
p0 79.32 ± 0.0597
200
180
160
140
120
100
80

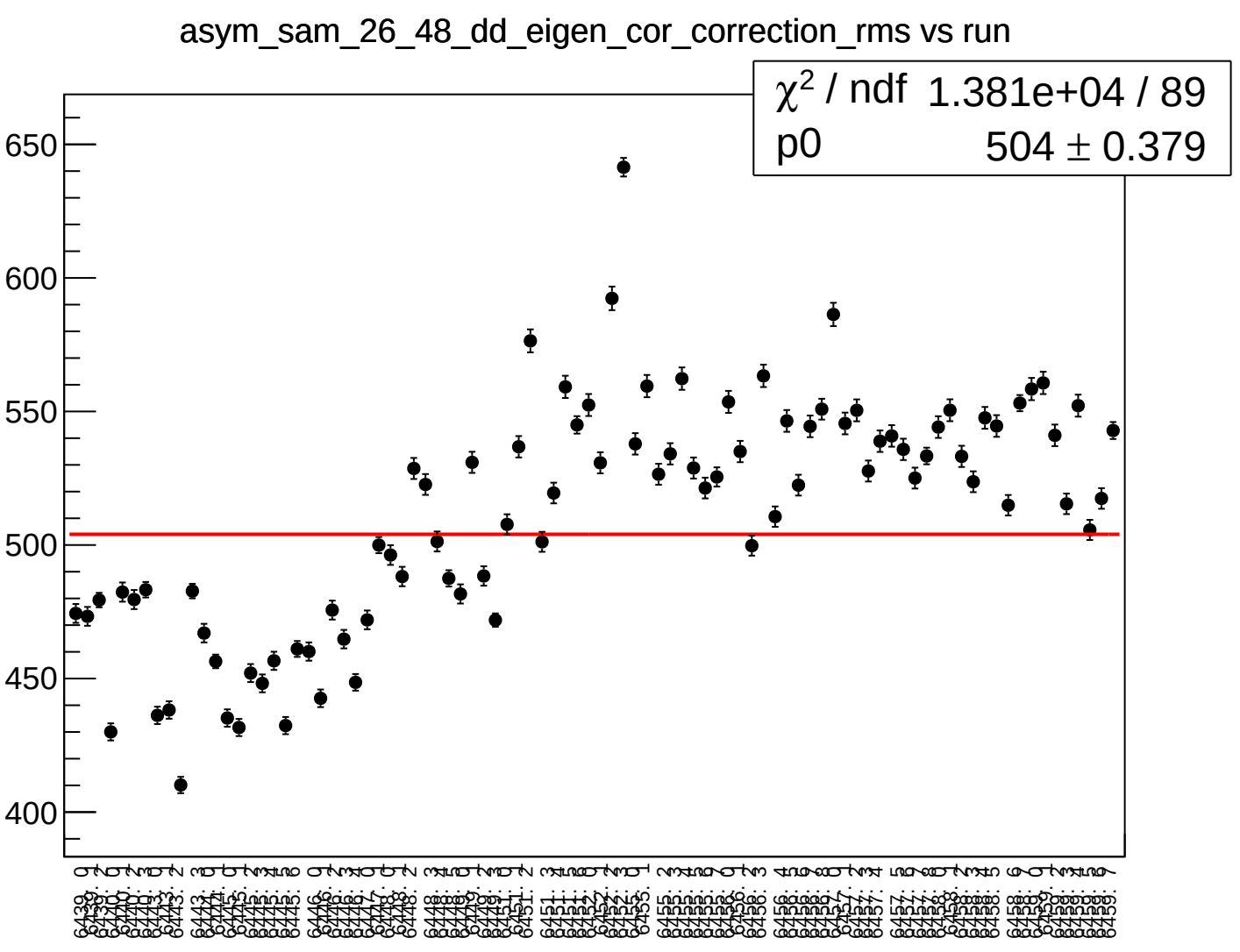

asym_sam_26_48_dd_cor_correction_mean vs run
χ² / ndf 91.75 / 89
p0 829.2 ± 536
pull
Entries 90
Mean 1536
Std Dev 0
pull1D
Entries 90
Mean −0.002936
Std Dev 1.01

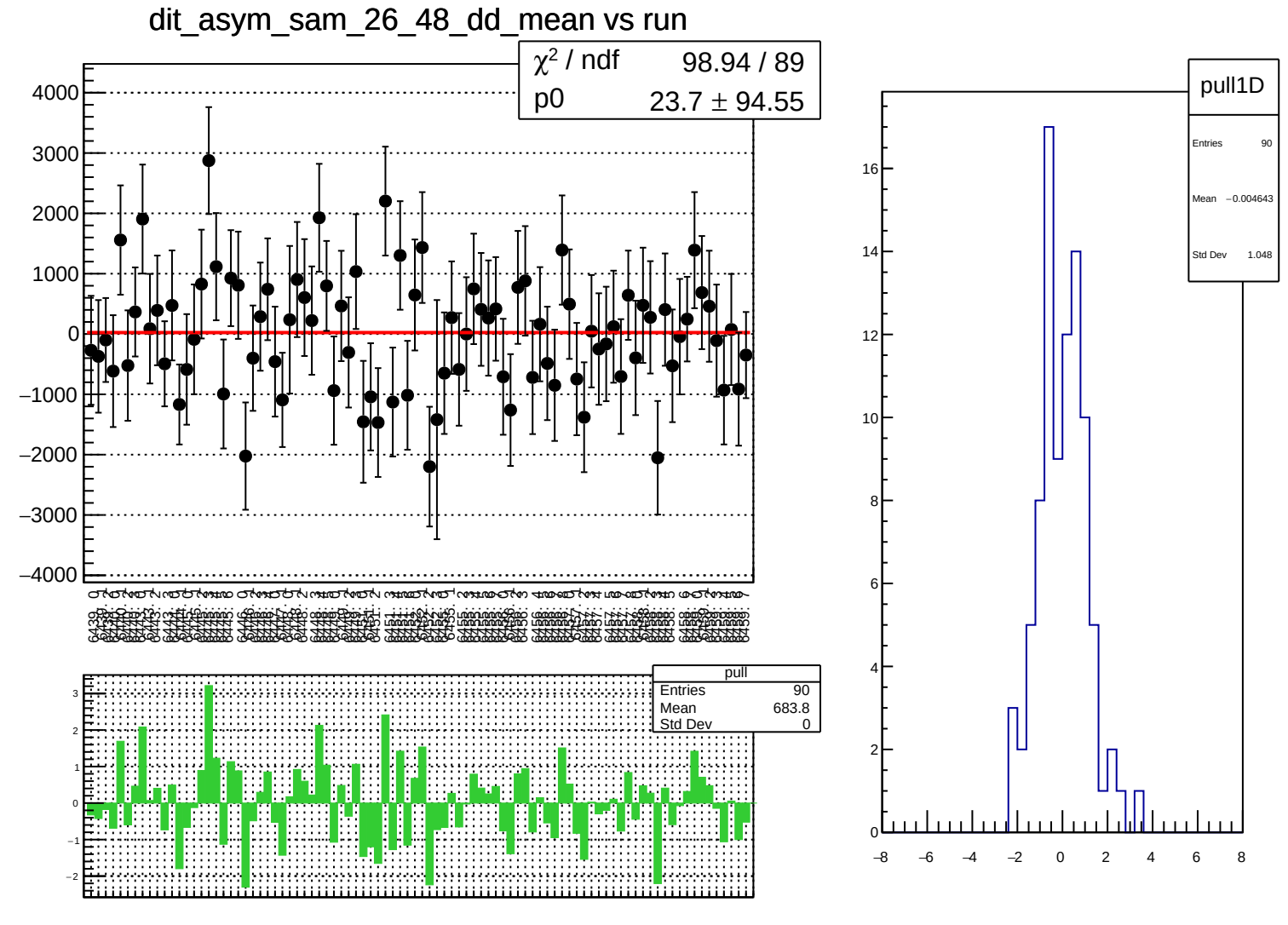

asym_sam_26_48_dd_cor_correction_rms vs run
χ² / ndf 1.381e+04 / 89
p0 504 ± 0.379
650
600
550
500
450
400

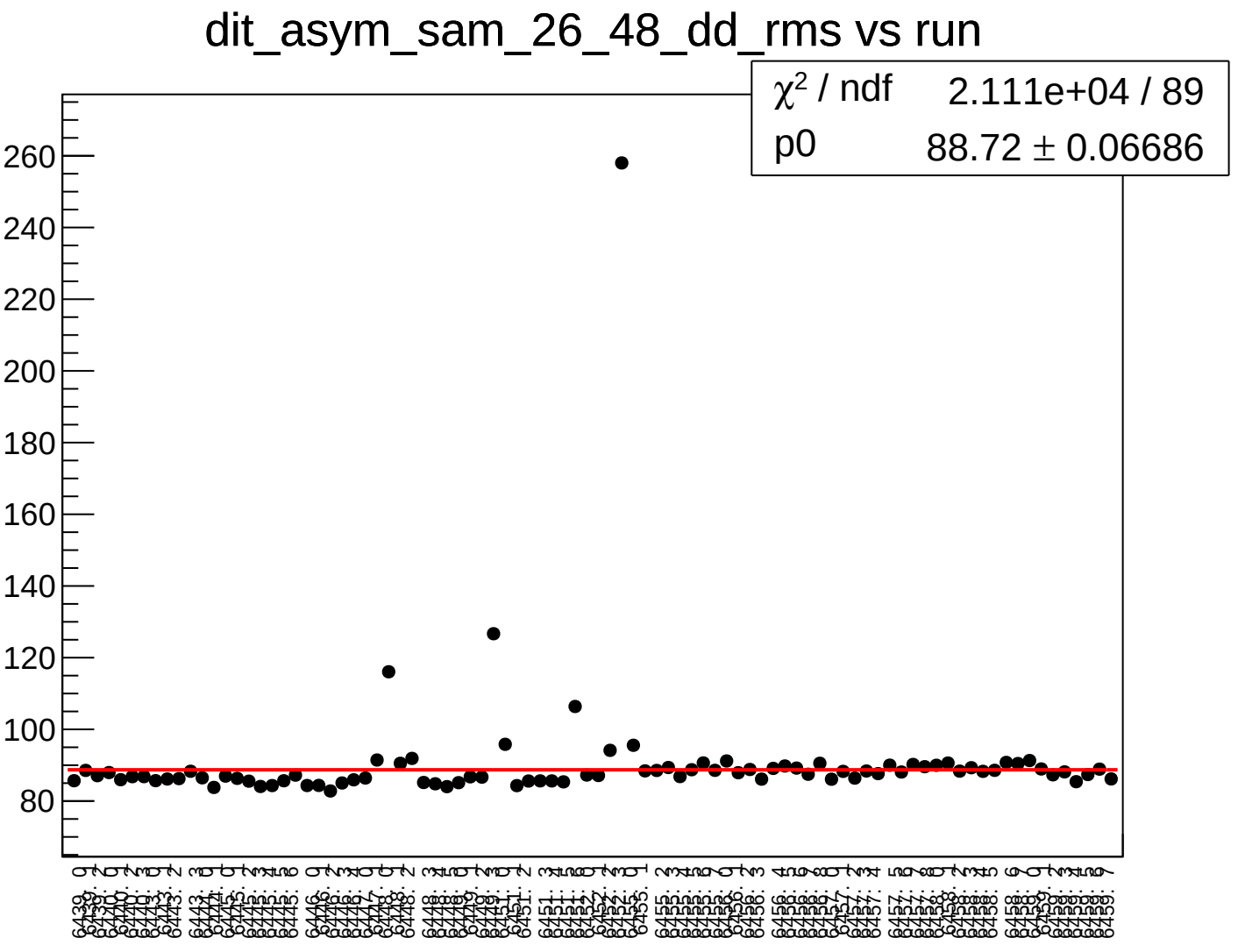

eigen_cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 108.2 / 89
p0 93.02 ± 84.42
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 90
Mean 25.77
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.001669
Std Dev 1.097
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

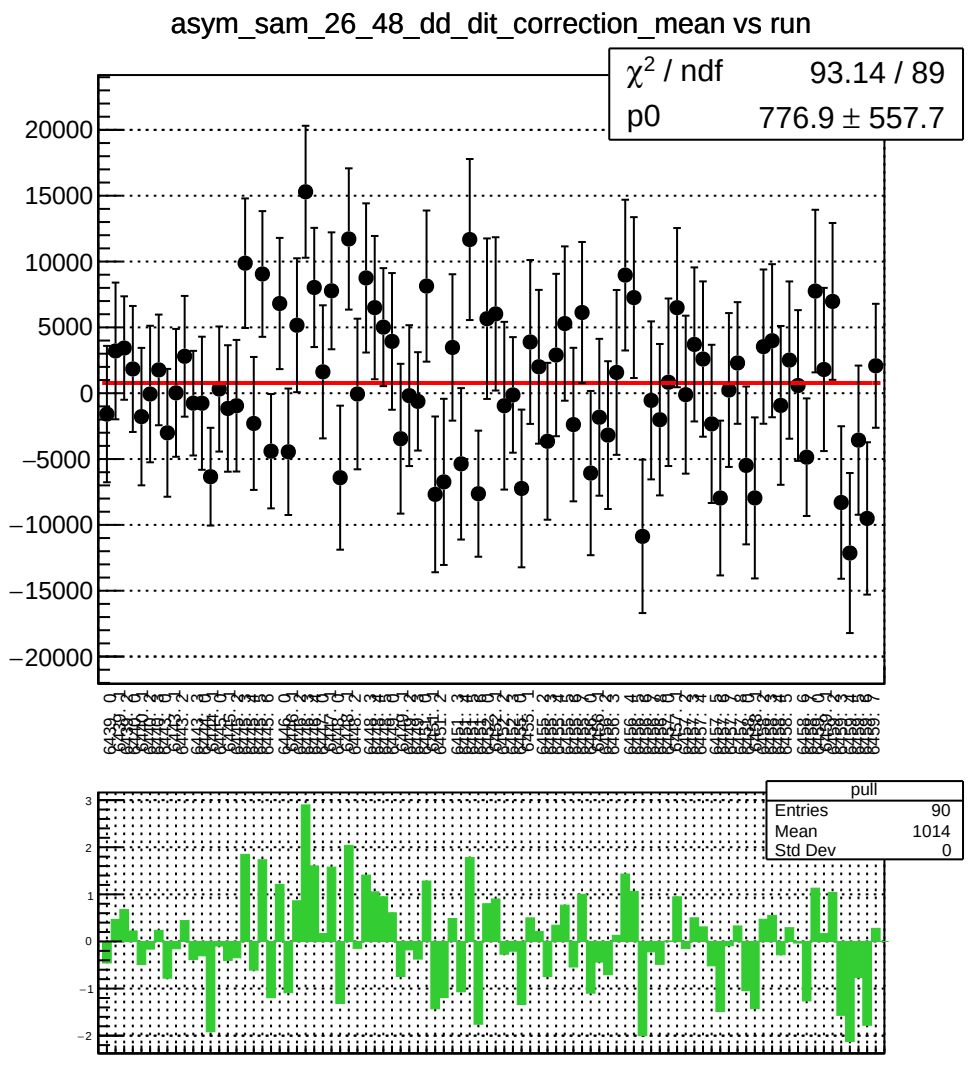

eigen_cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 1.633e+04 / 89
p0 79.32 ± 0.0597
200
180
160
140
120
100
80

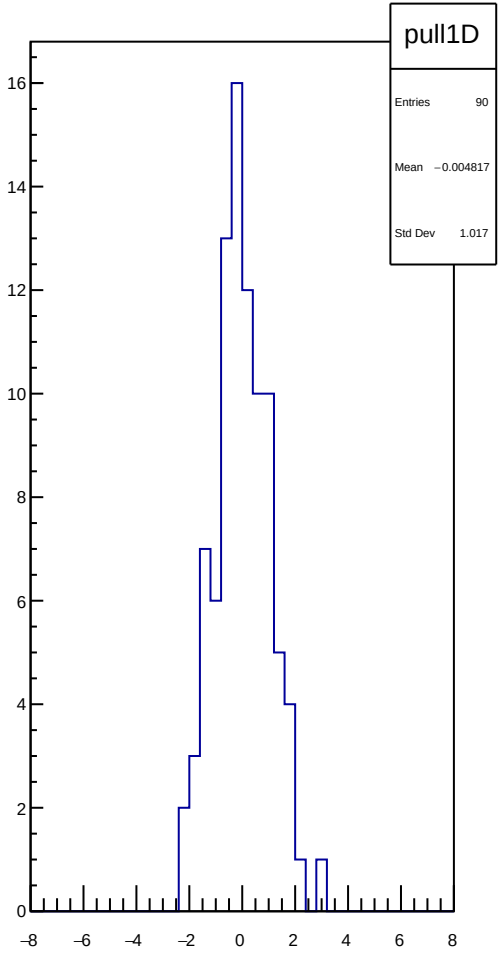

asym_sam_26_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 91.75 / 89
p0 829.2 ± 536
pull
Entries 90
Mean 1536
Std Dev 0
pull1D
Entries 90
Mean −0.002936
Std Dev 1.01

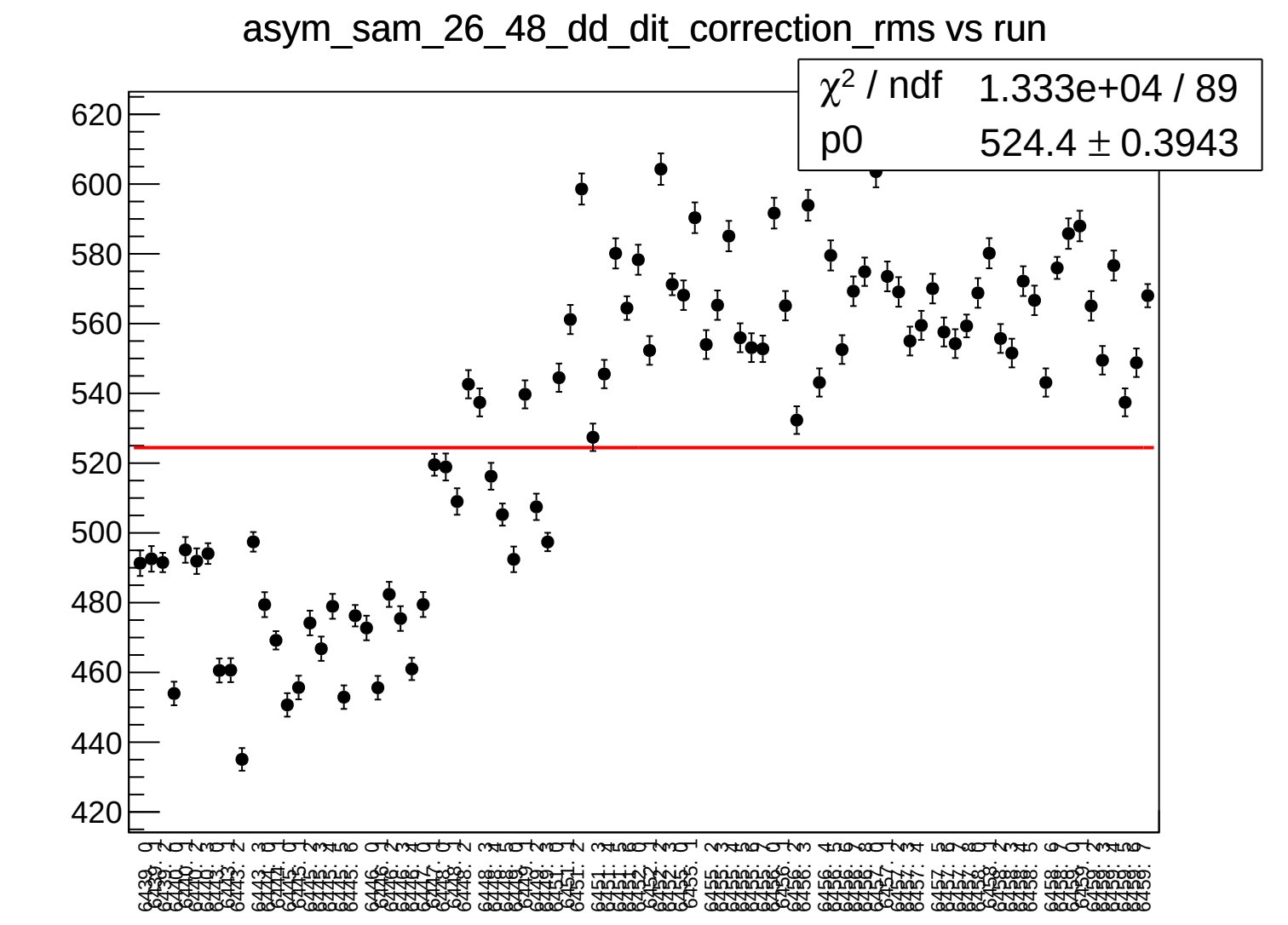

asym_sam_26_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.381e+04 / 89
p0 504 ± 0.379
650
600
550
500
450
400

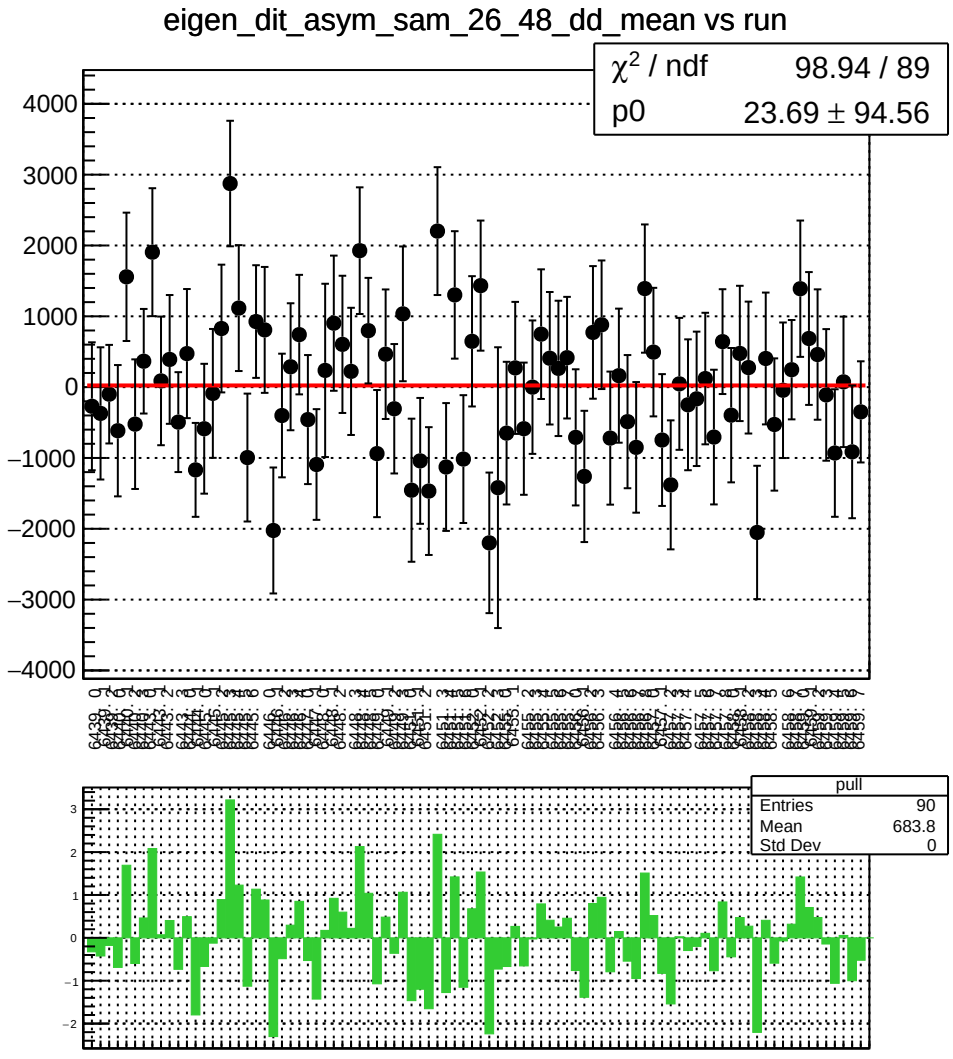

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 98.94 / 89
p0 23.7 ± 94.55
pull
Entries 90
Mean 683.8
Std Dev 0
pull1D
Entries 90
Mean −0.004643
Std Dev 1.048

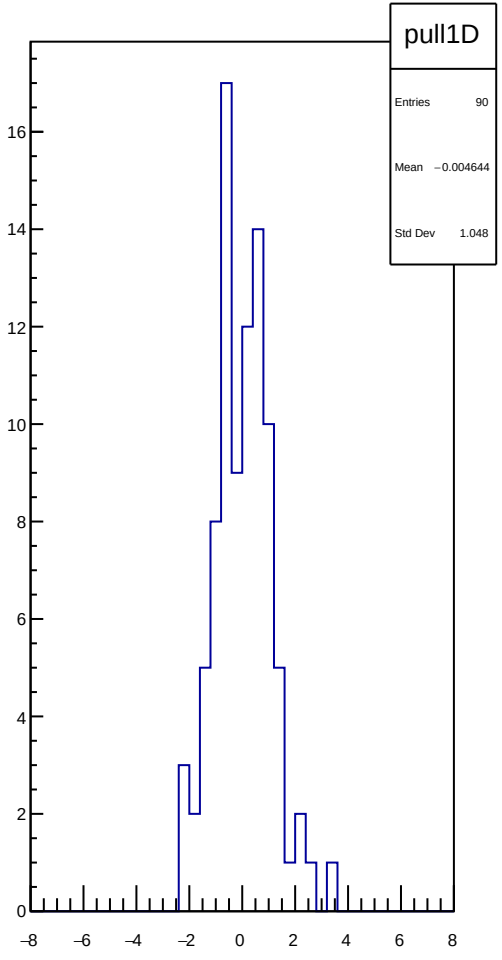

dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 2.111e+04 / 89
p0 88.72 ± 0.06686
260
240
220
200
180
160
140
120
100
80

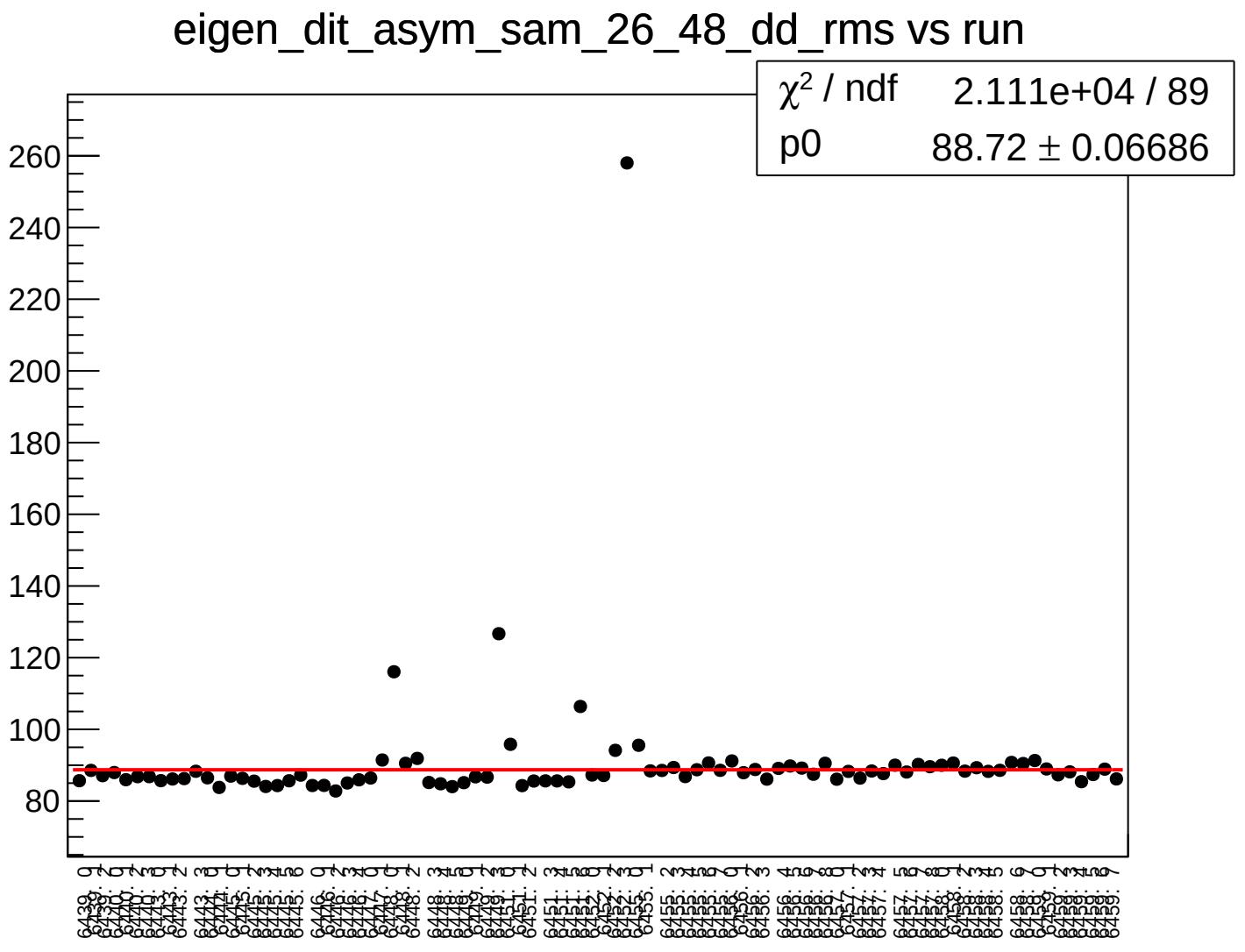

asym_sam_26_48_dd_dit_correction_mean vs run
χ² / ndf 93.14 / 89
p0 776.9 ± 557.7
pull
Entries 90
Mean 1014
Std Dev 0

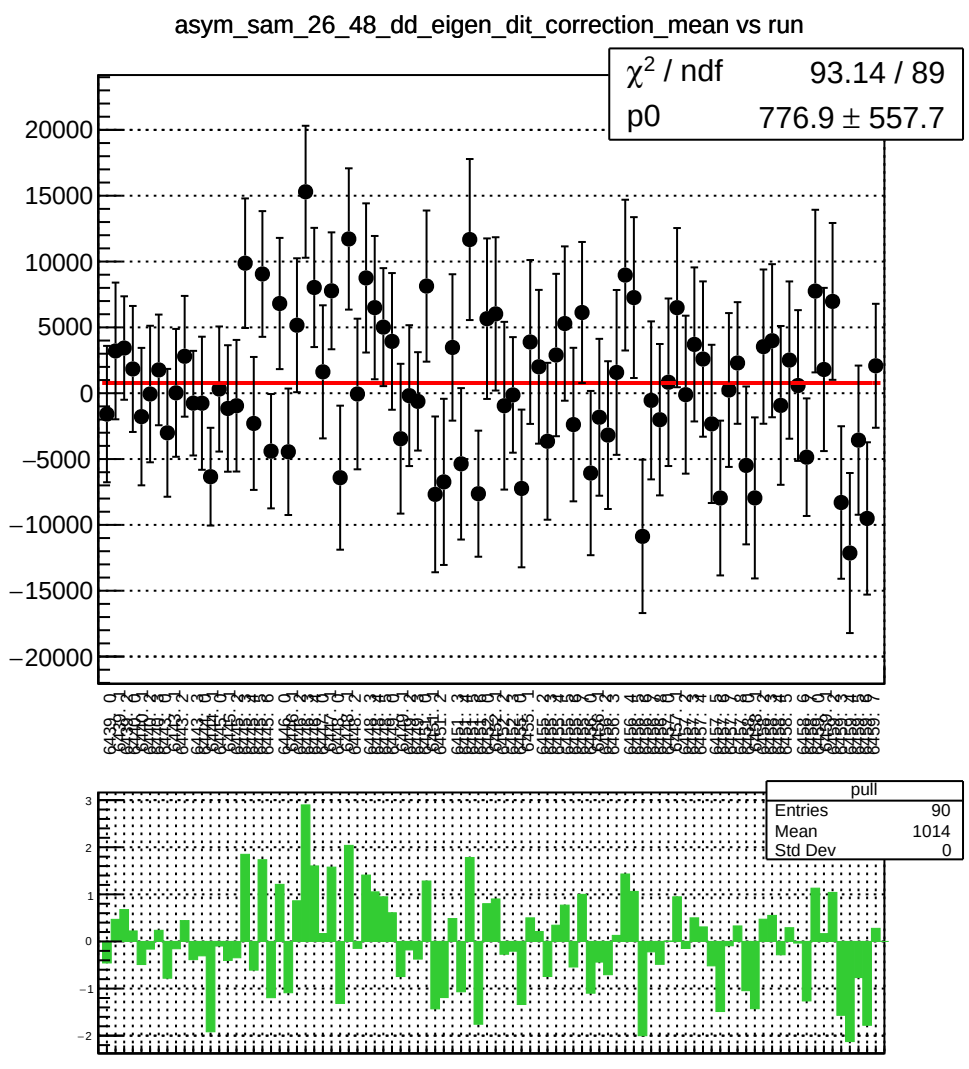

pull1D
Entries 90
Mean −0.004817
Std Dev 1.017

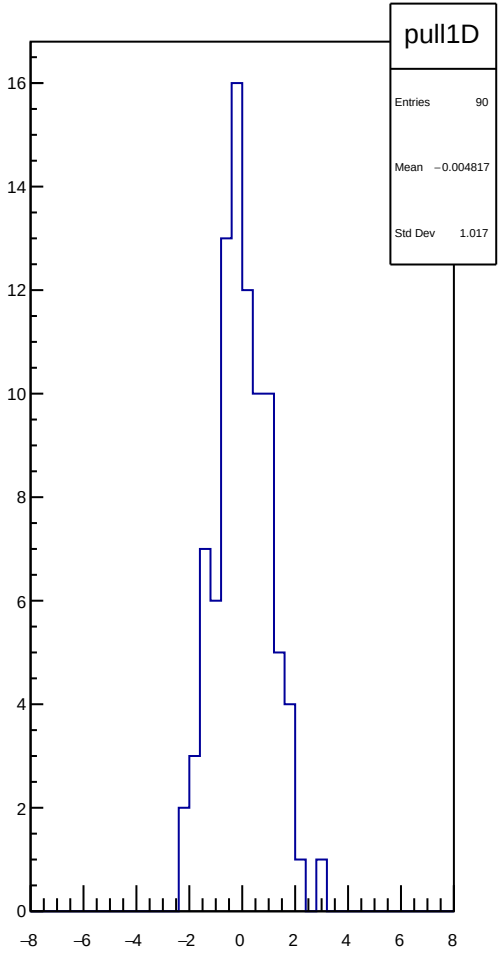

asym_sam_26_48_dd_dit_correction_rms vs run
χ² / ndf 1.333e+04 / 89
p0 524.4 ± 0.3943
620
600
580
560
540
520
500
480
460
440
420

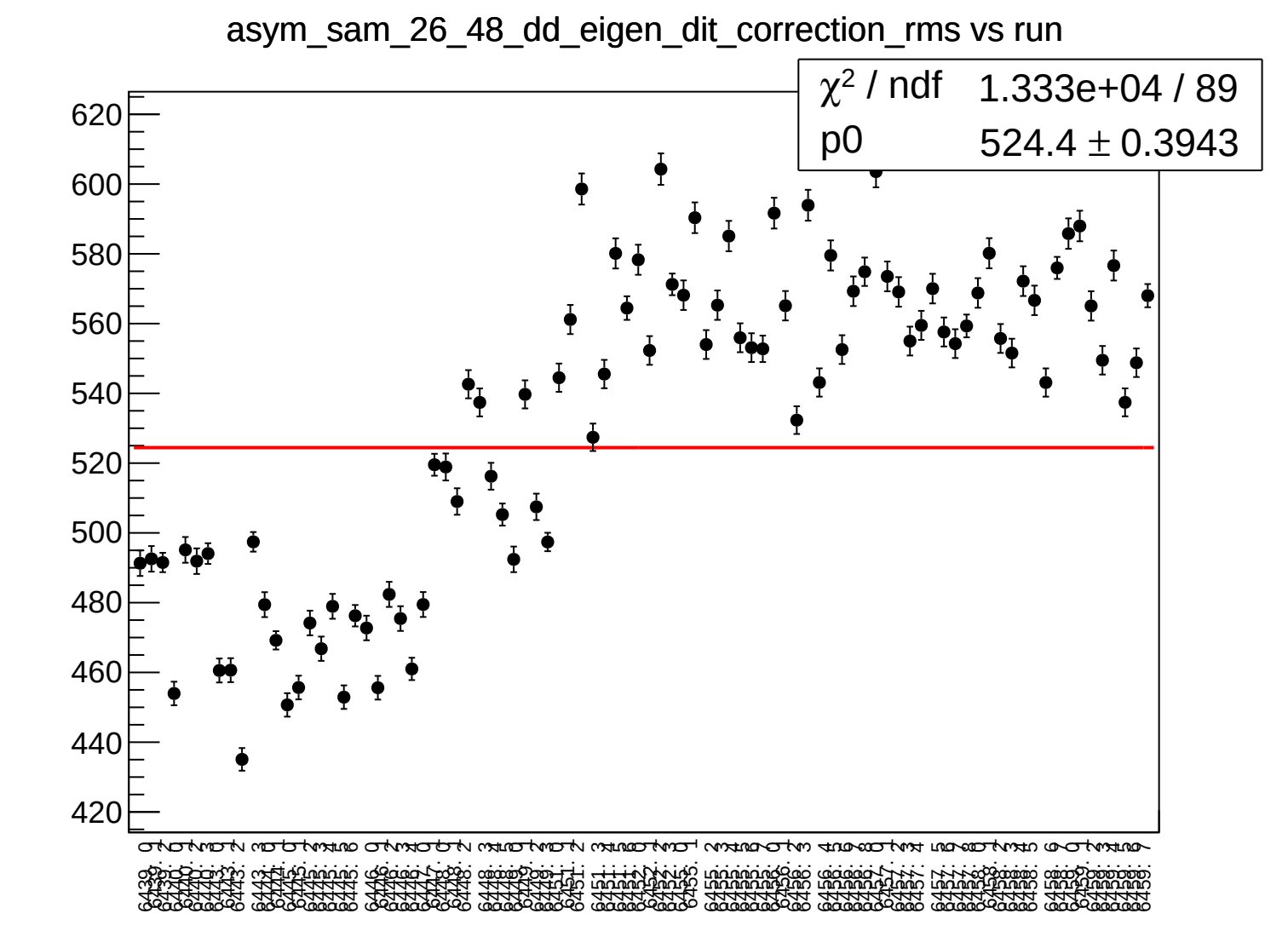

eigen_dit_asym_sam_26_48_dd_mean vs run
χ^2 / ndf 98.94 / 89
p0 23.69 ± 94.56
pull
Entries 90
Mean 683.8
Std Dev 0

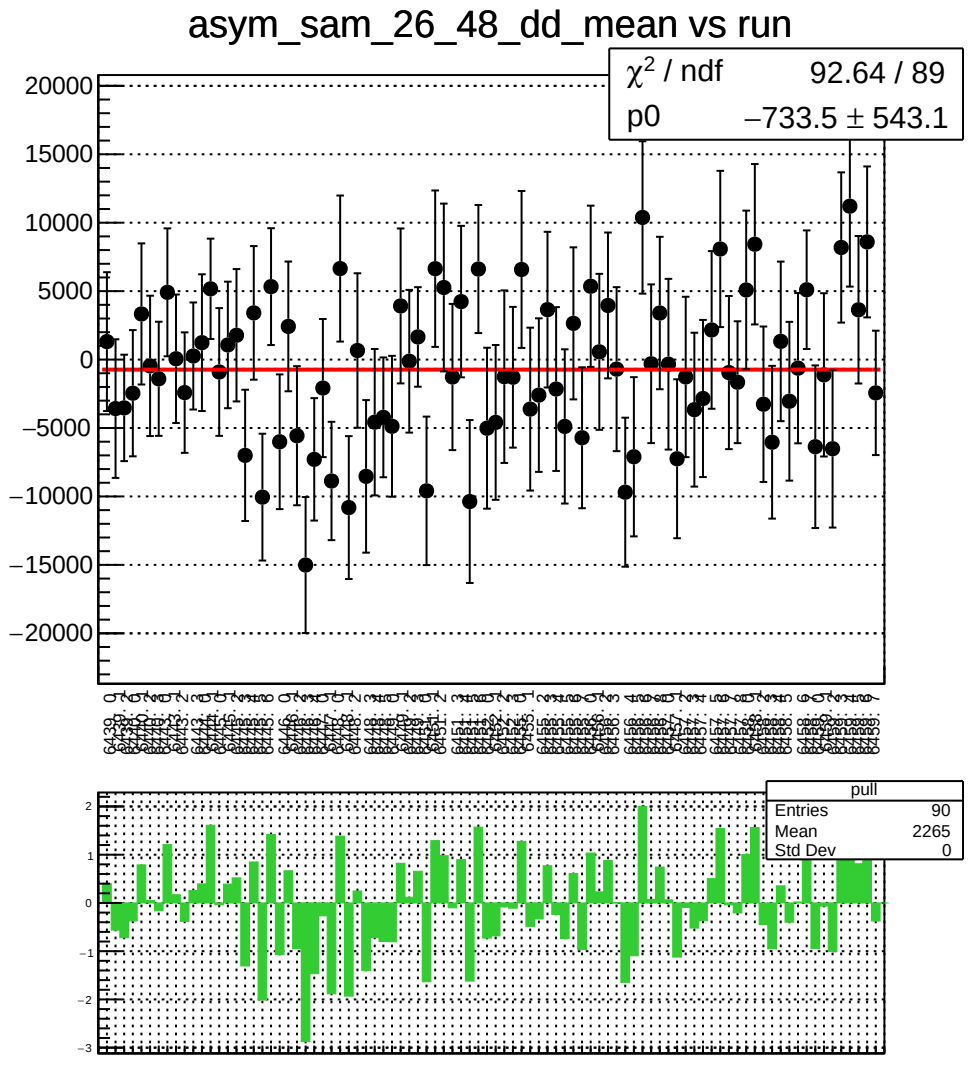

pull1D
Entries 90
Mean −0.004644
Std Dev 1.048

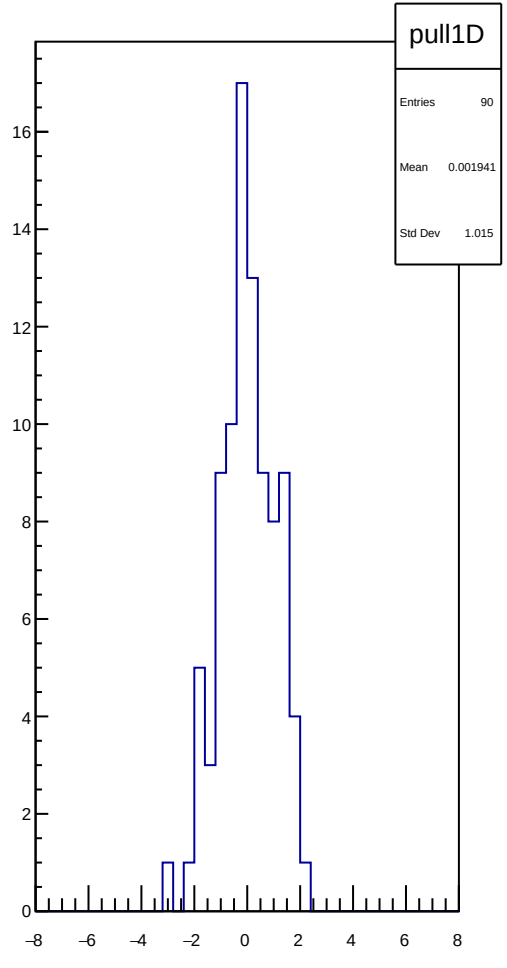

eigen_dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 2.111e+04 / 89
p0 88.72 ± 0.06686
260
240
220
200
180
160
140
120
100
80

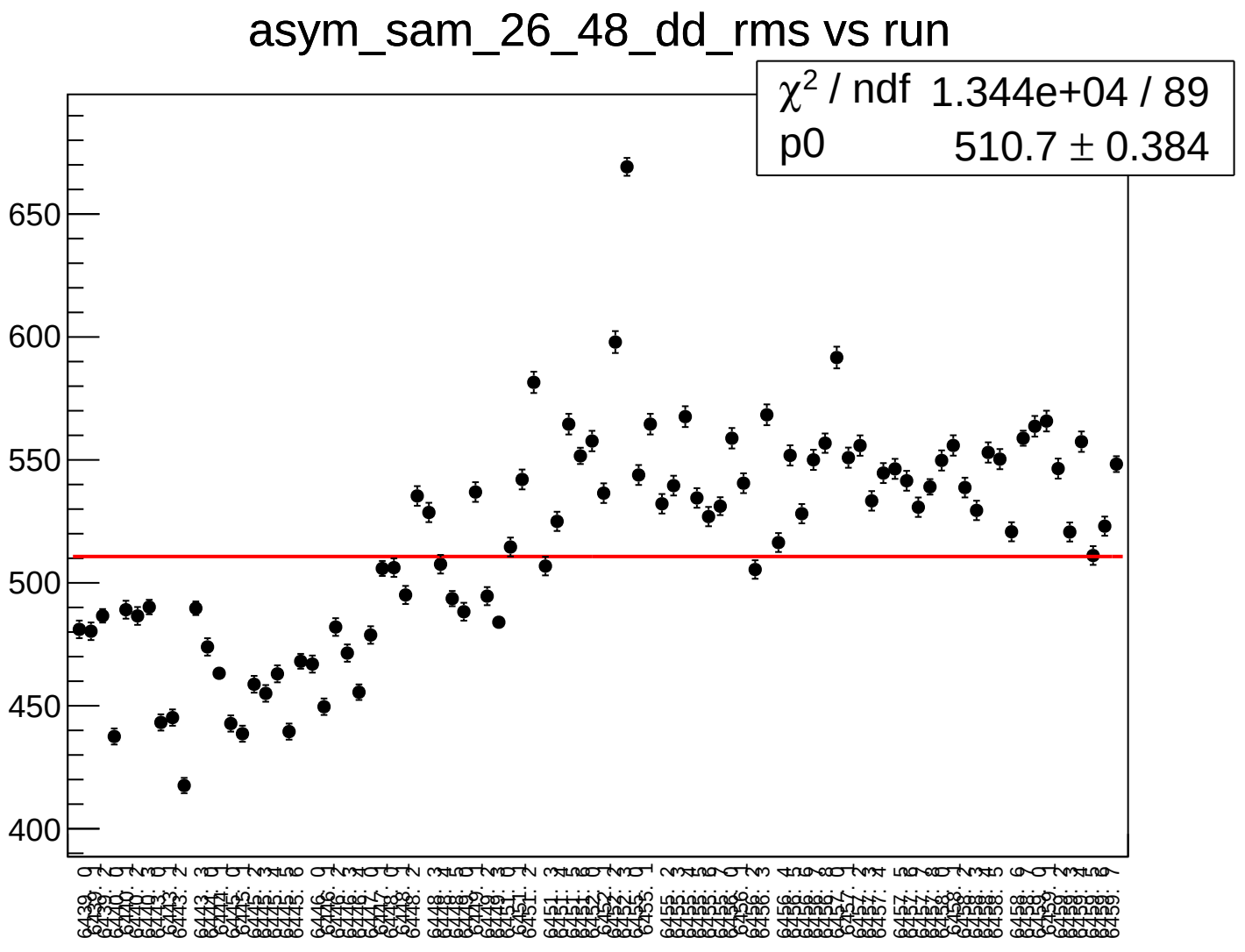

asym_sam_26_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 93.14 / 89
p0 776.9 ± 557.7
pull
Entries 90
Mean 1014
Std Dev 0

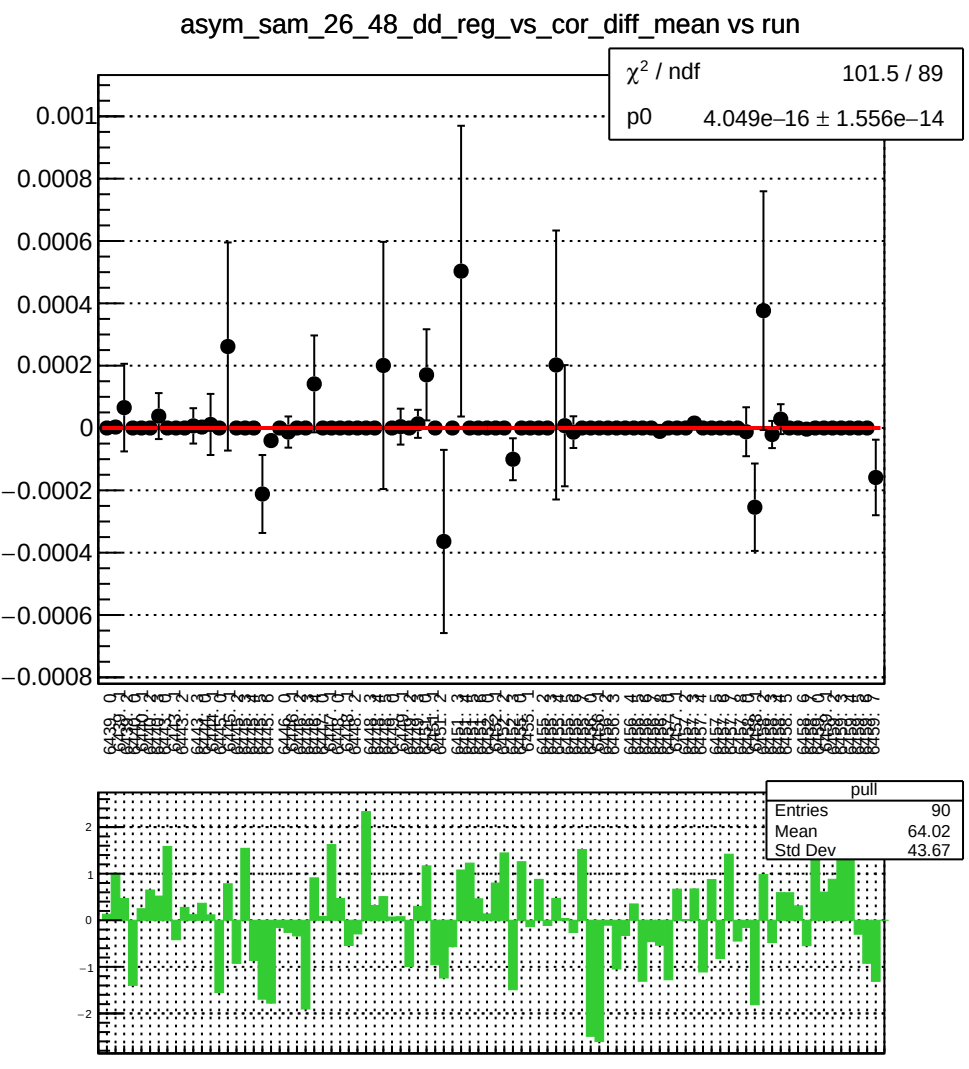

pull1D
Entries 90
Mean −0.004817
Std Dev 1.017

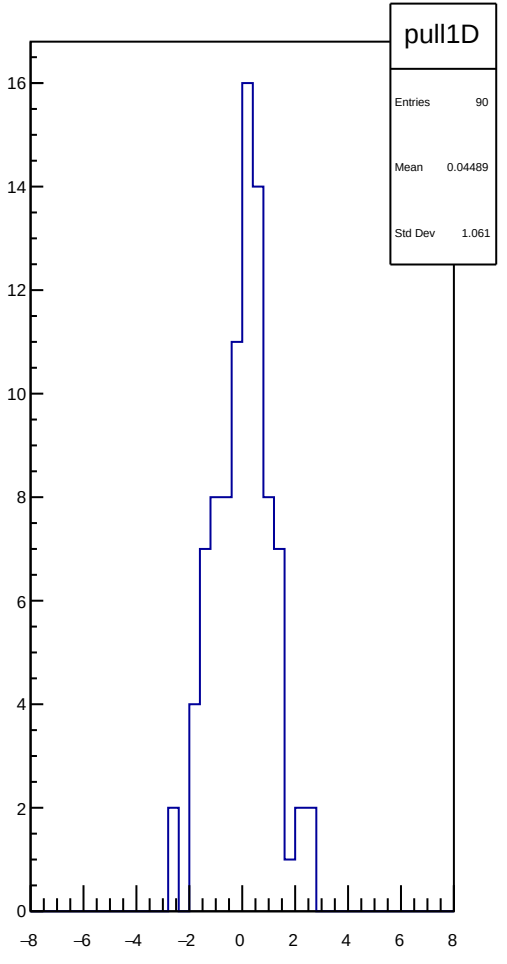

asym_sam_26_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.333e+04 / 89
p0 524.4 ± 0.3943
620
600
580
560
540
520
500
480
460
440
420

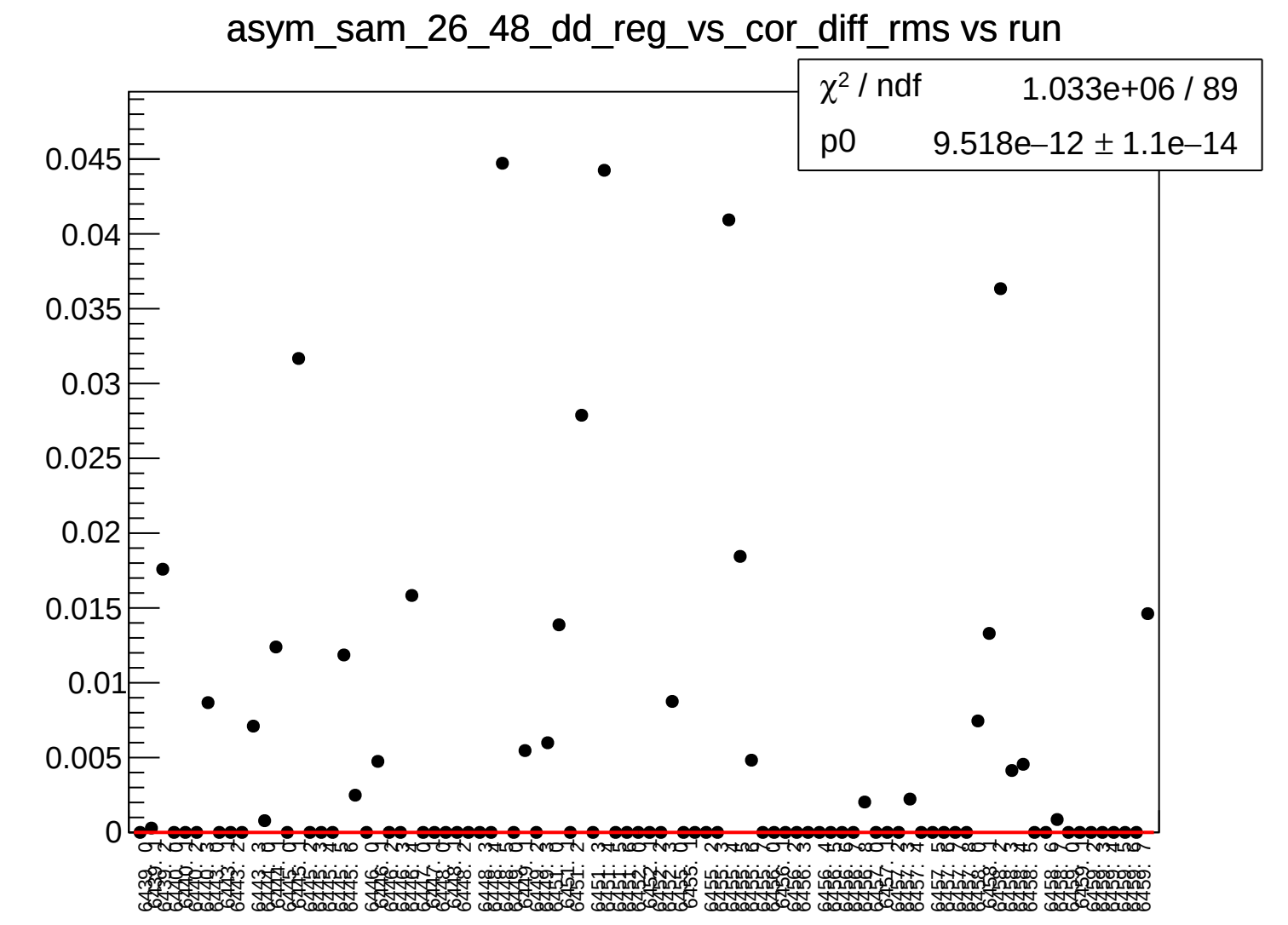

asym_sam_26_48_dd_mean vs run
χ² / ndf 92.64 / 89
p0 −733.5 ± 543.1
pull
Entries 90
Mean 2265
Std Dev 0

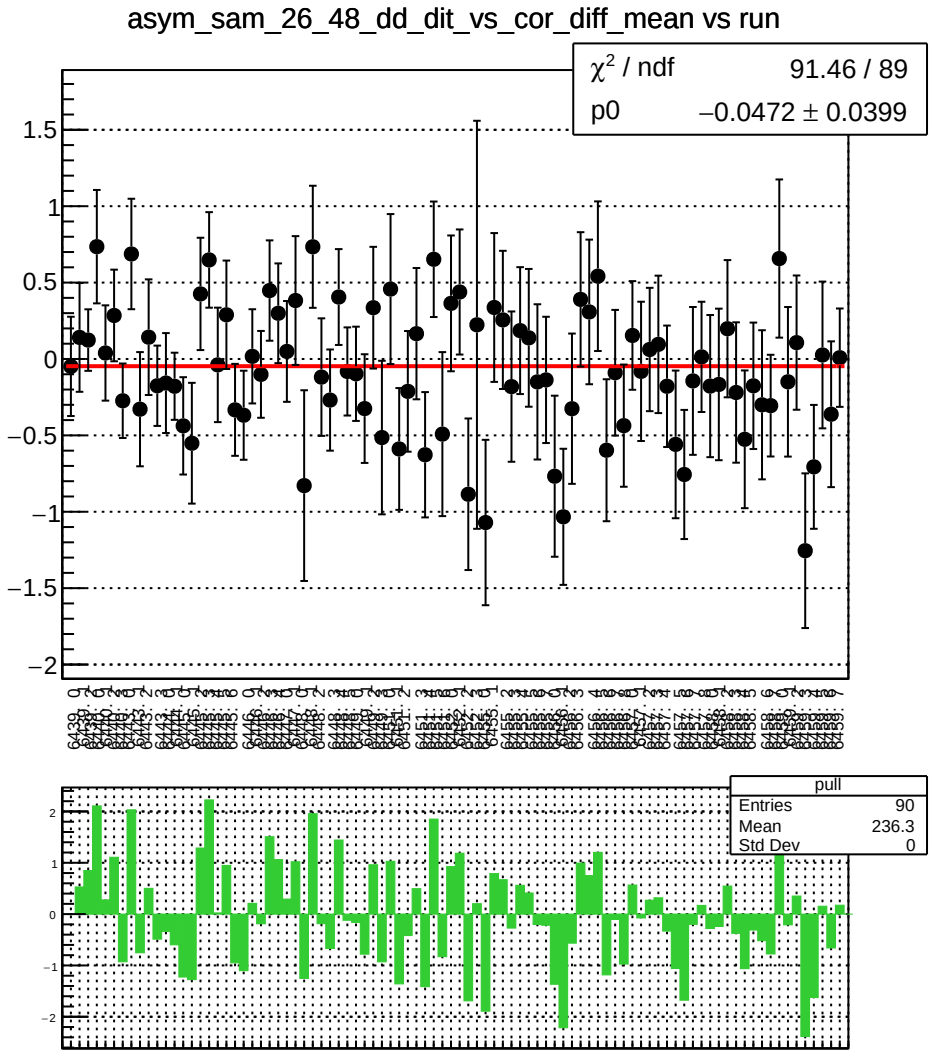

pull1D
Entries 90
Mean 0.001941
Std Dev 1.015

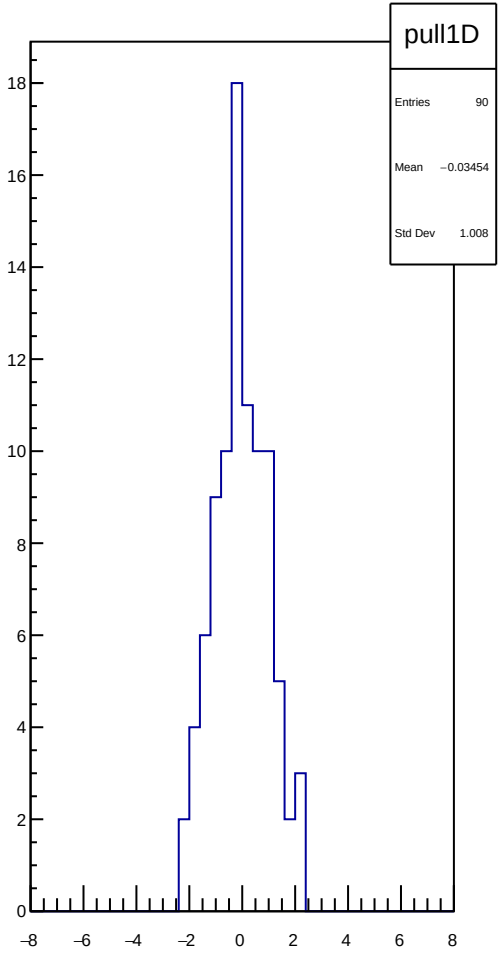

asym_sam_26_48_dd_rms vs run
χ² / ndf 1.344e+04 / 89
p0 510.7 ± 0.384
650
600
550
500
450
400

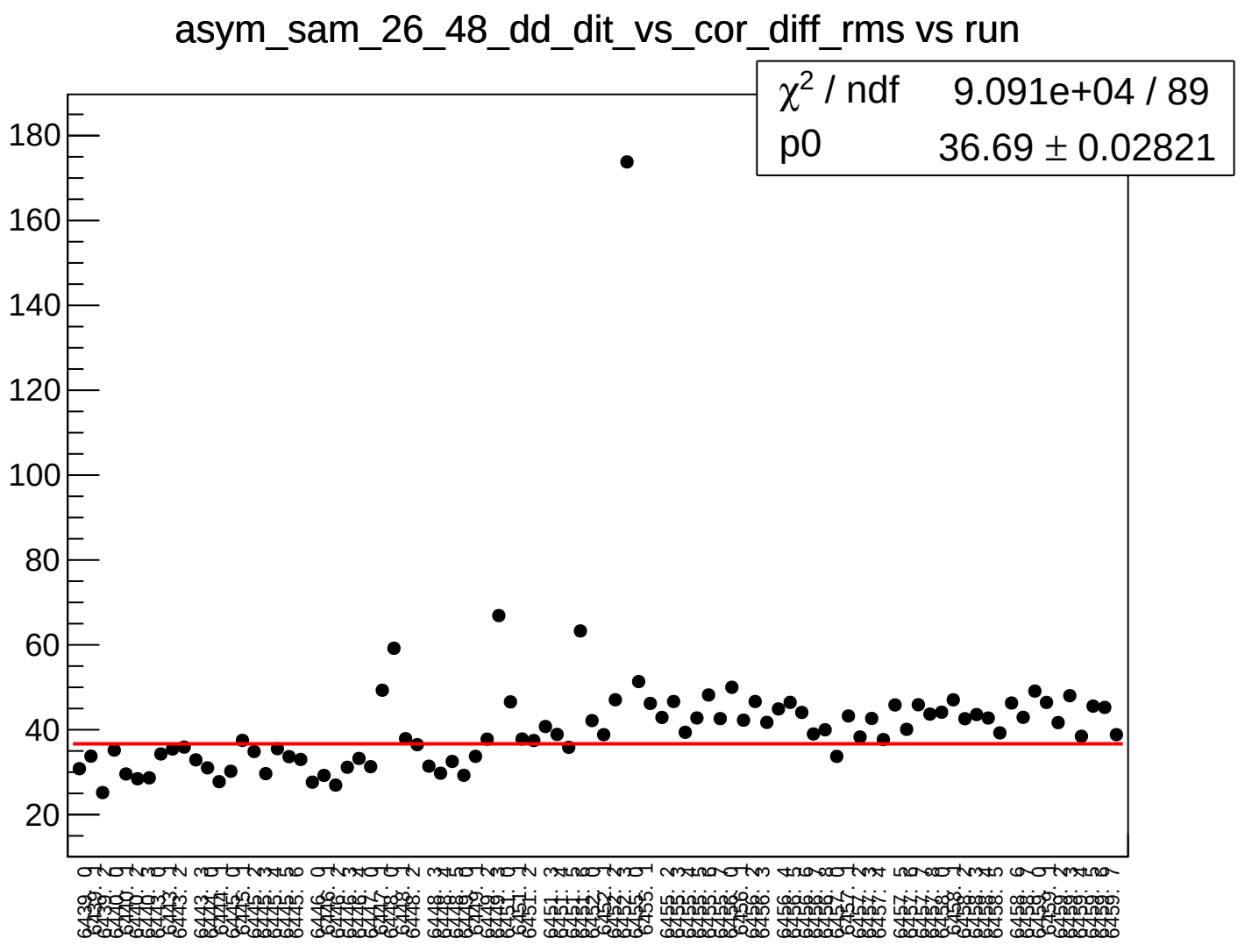

asym_sam_26_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 101.5 / 89
p0 4.049e−16 ± 1.556e−14
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
pull
Entries 90
Mean 64.02
Std Dev 43.67
2
1
0
−1
−2

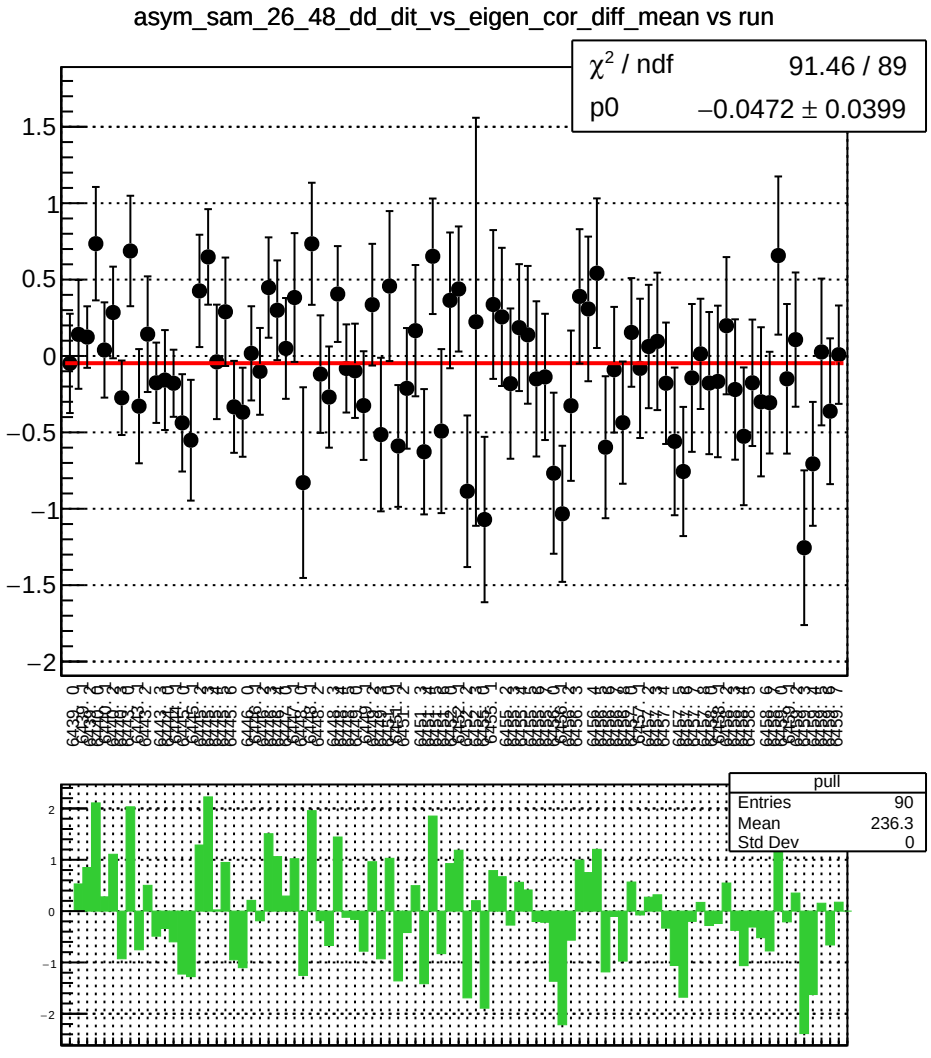

pull1D
Entries 90
Mean 0.04489
Std Dev 1.061
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

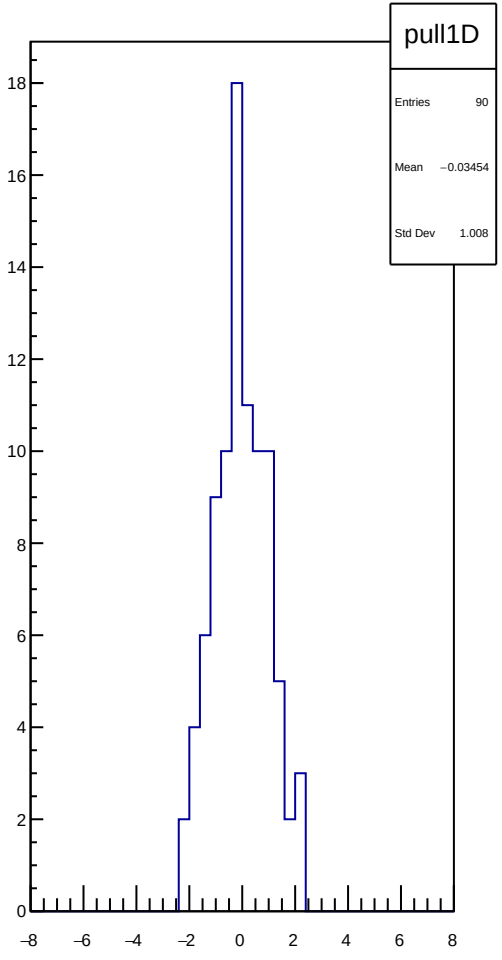

asym_sam_26_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.033e+06 / 89
p0 9.518e−12 ± 1.1e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

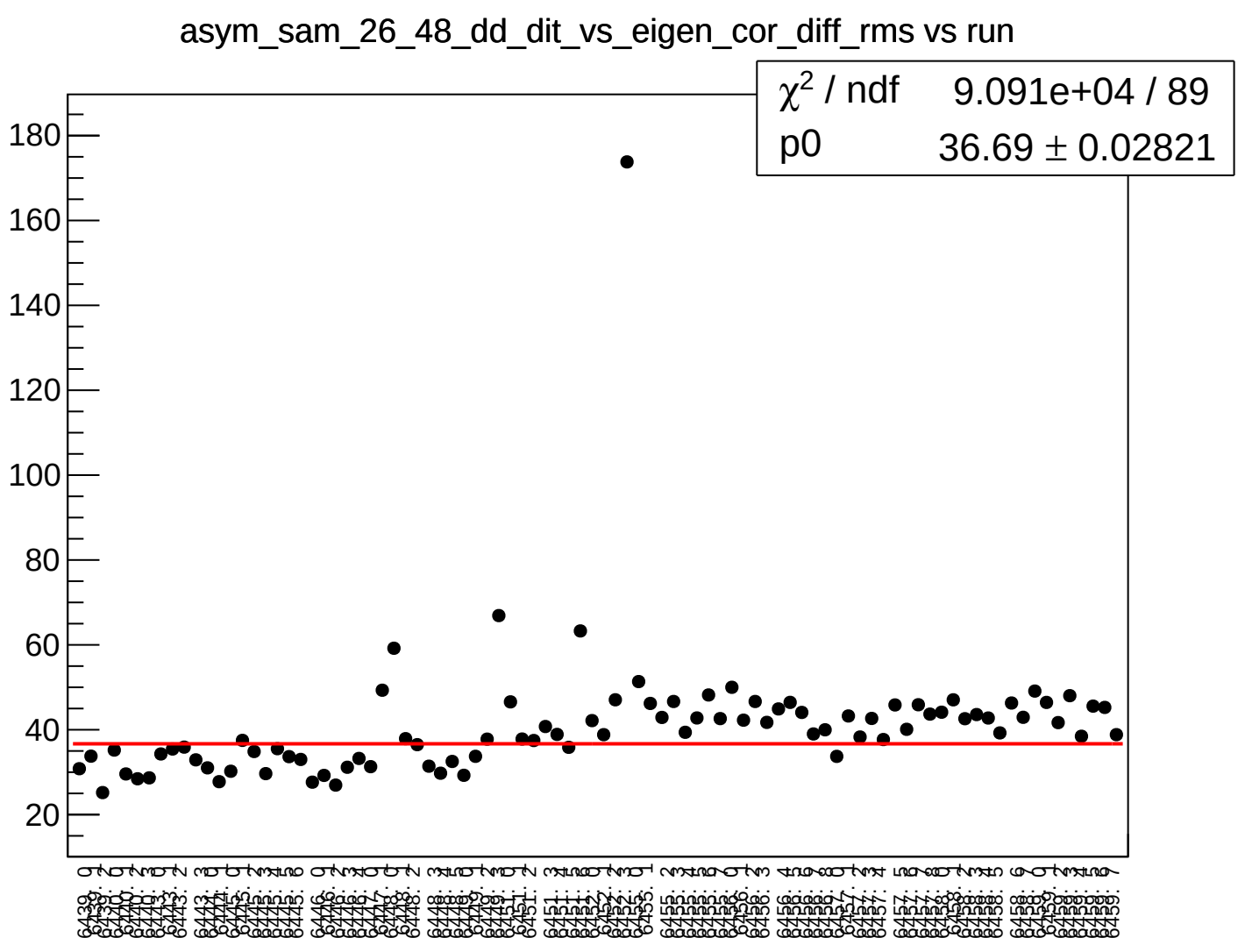

asym_sam_26_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 91.46 / 89
p0 −0.0472 ± 0.0399
pull
Entries 90
Mean 236.3
Std Dev 0

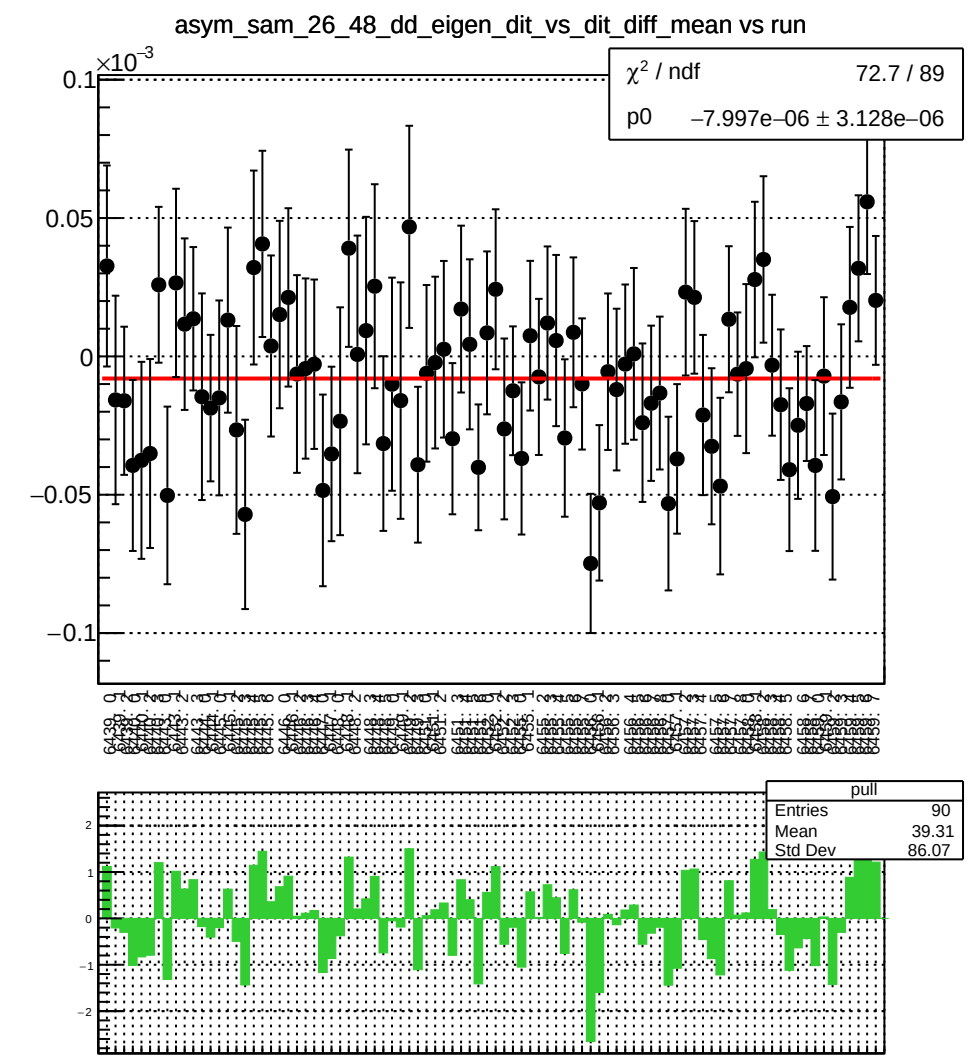

pull1D
Entries 90
Mean −0.03454
Std Dev 1.008

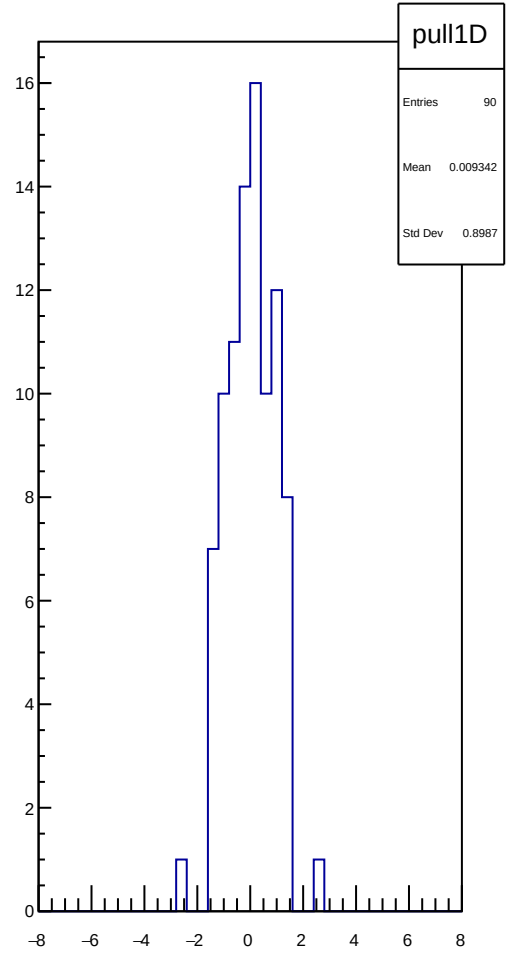

asym_sam_26_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9.091e+04 / 89
p0 36.69 ± 0.02821
180
160
140
120
100
80
60
40
20

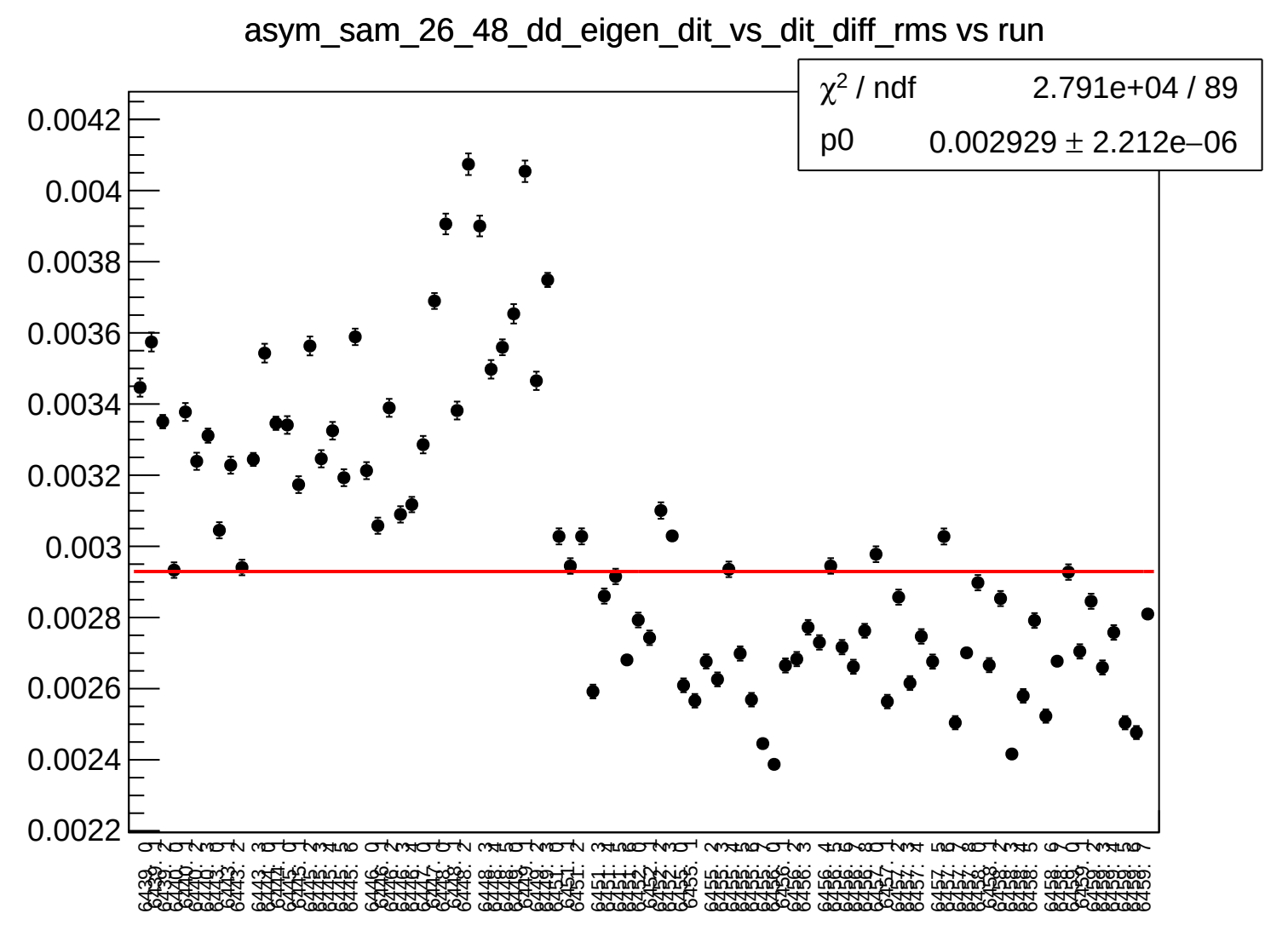

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.46 / 89
p0 −0.0472 ± 0.0399
pull
Entries 90
Mean 236.3
Std Dev 0

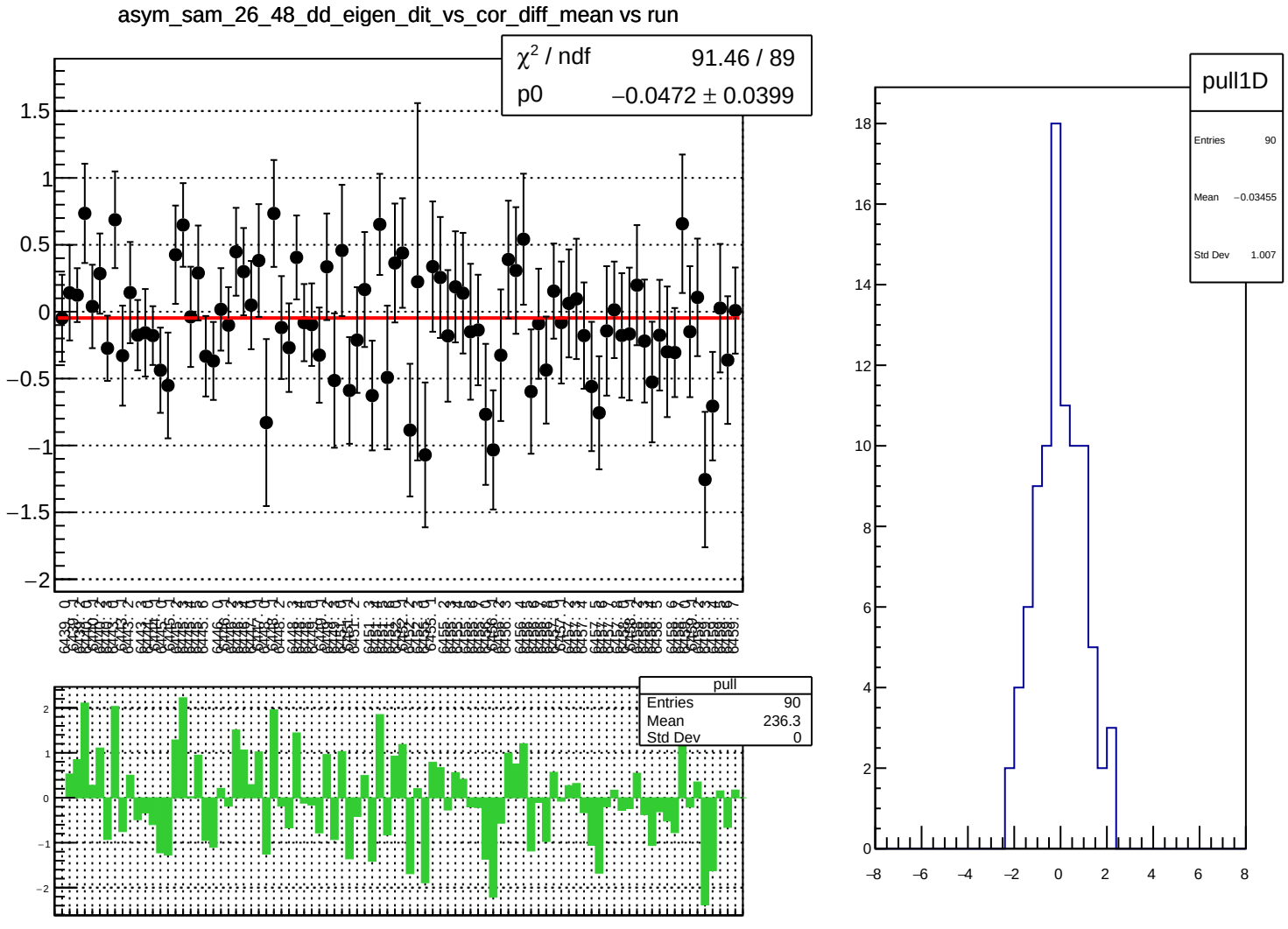

pull1D
Entries 90
Mean −0.03454
Std Dev 1.008

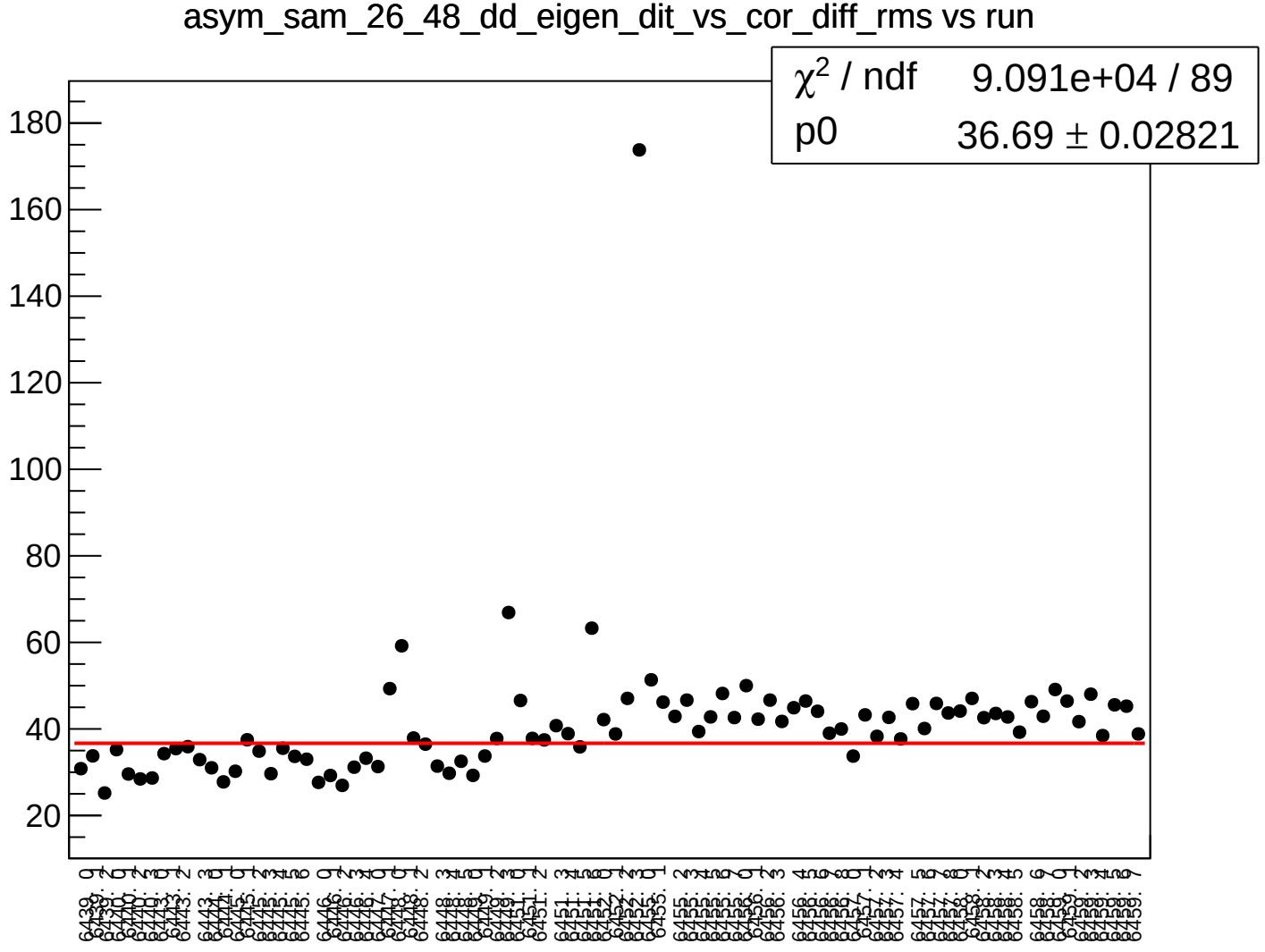

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 9.091e+04 / 89
p0 36.69 ± 0.02821
180
160
140
120
100
80
60
40
20

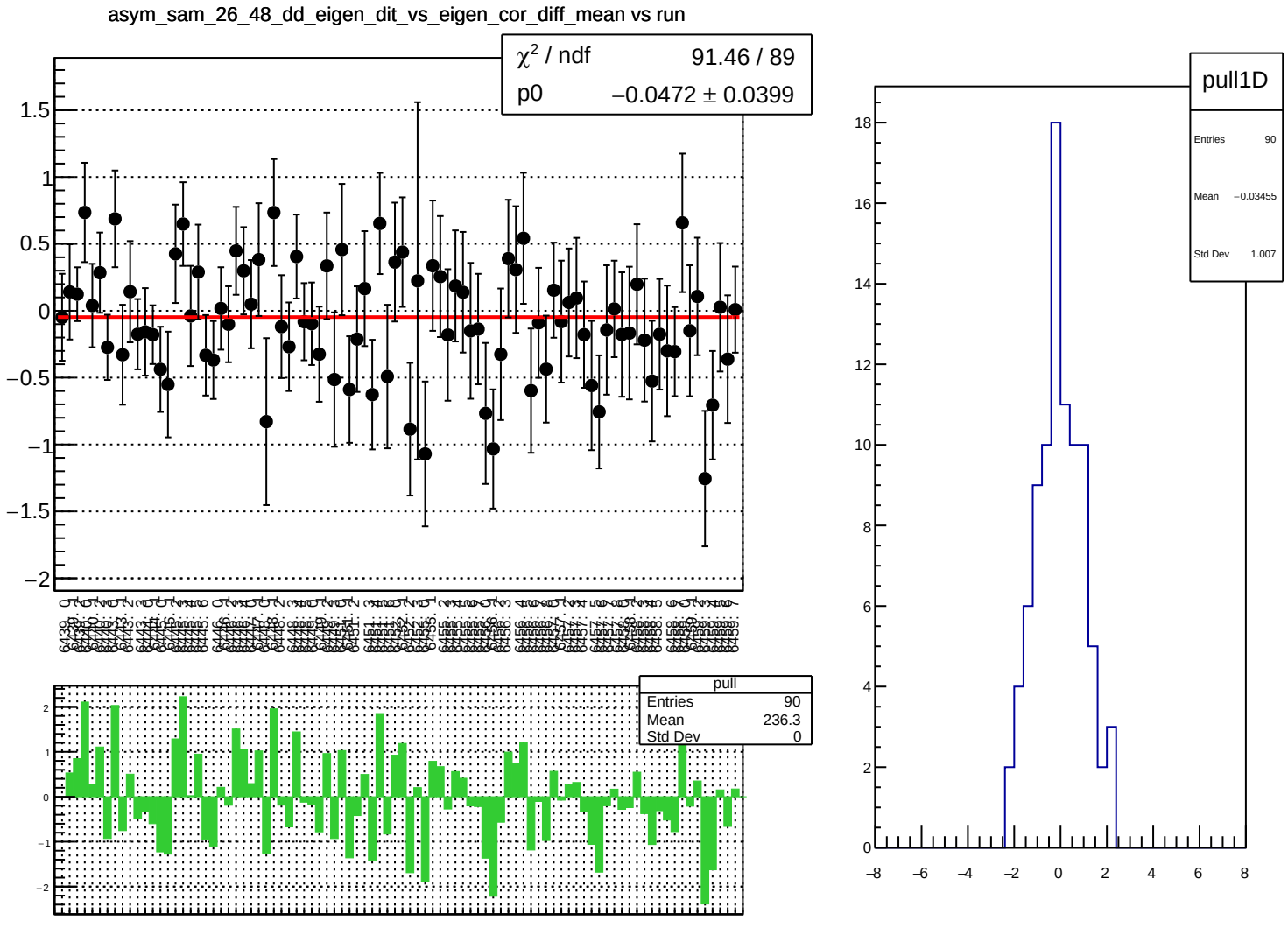

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 72.7 / 89
p0 −7.997e−06 ± 3.128e−06
pull
Entries 90
Mean 39.31
Std Dev 86.07

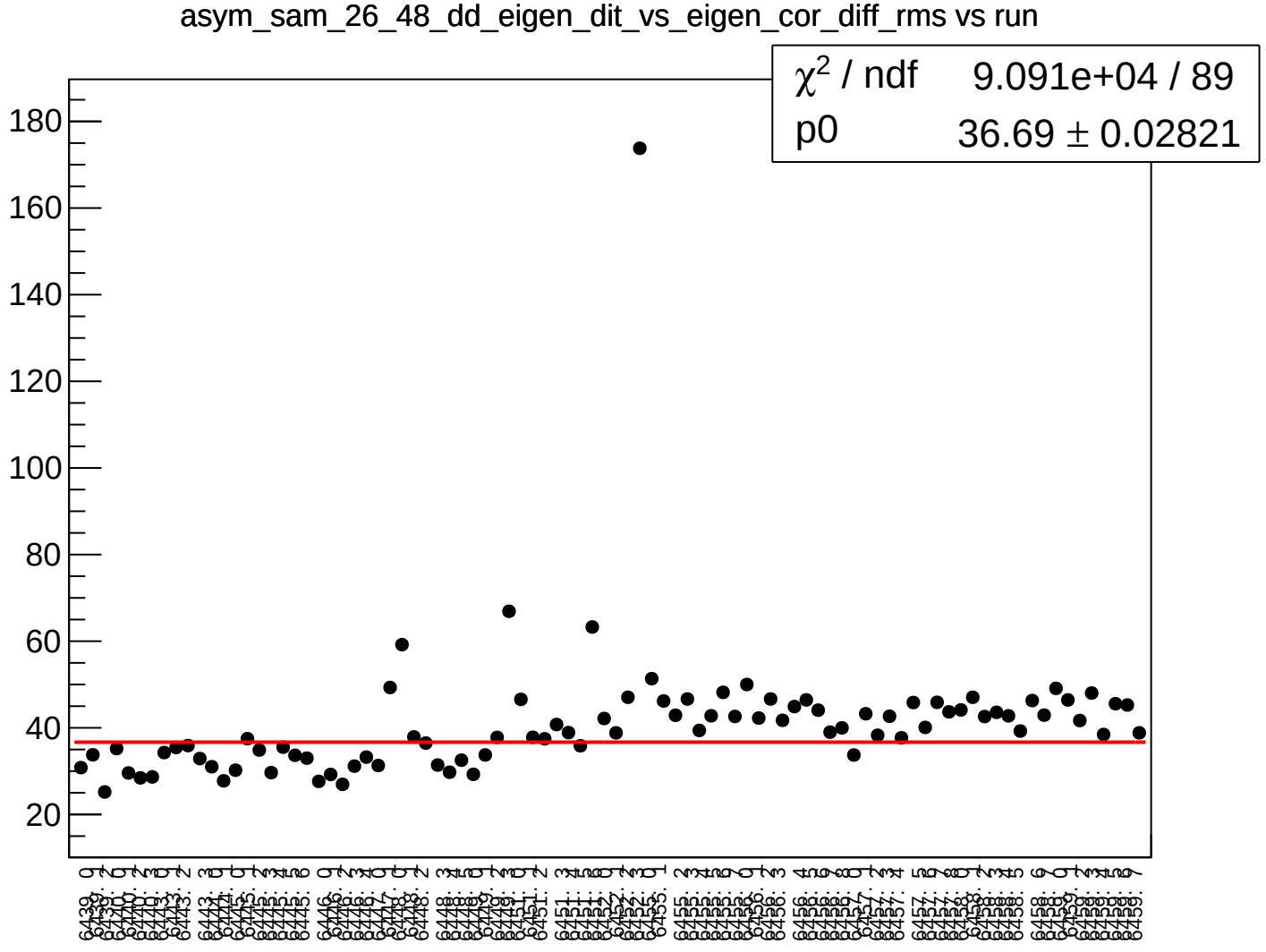

pull1D
Entries 90
Mean 0.009342
Std Dev 0.8987

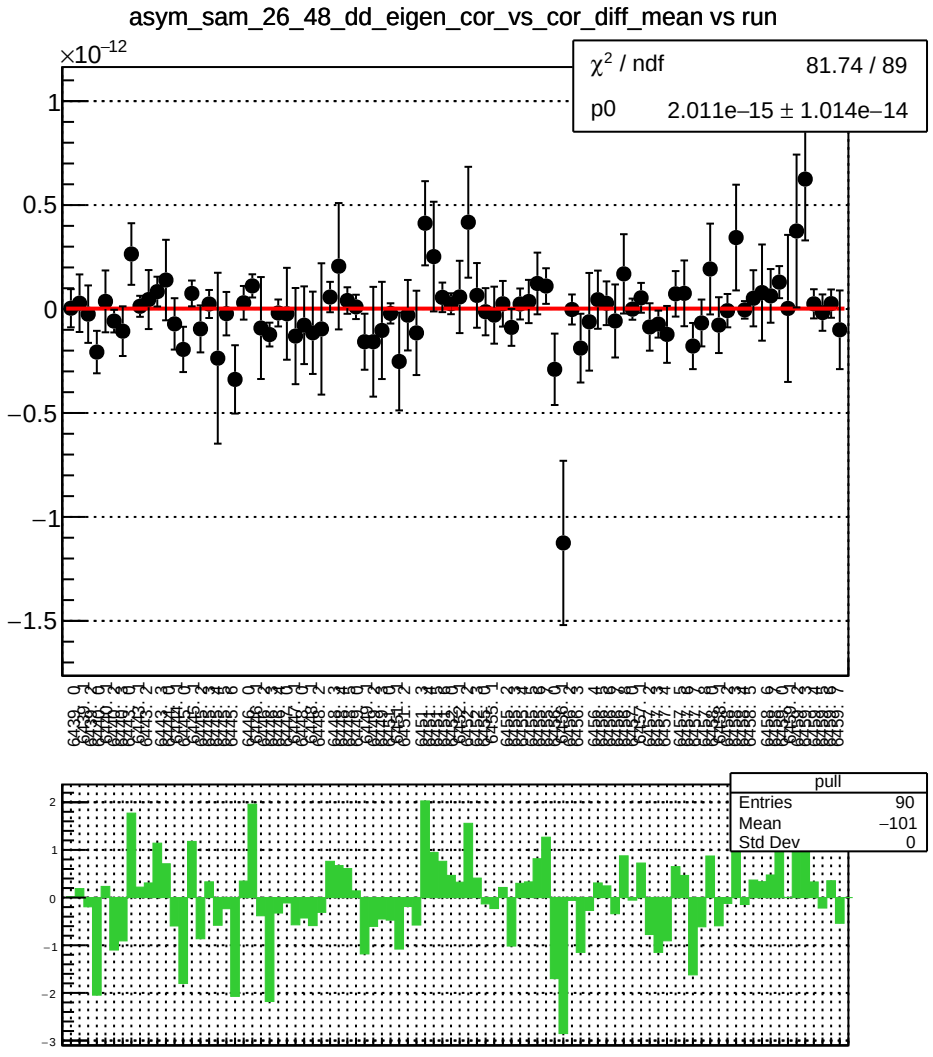

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.791e+04 / 89
p0 0.002929 ± 2.212e−06
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022

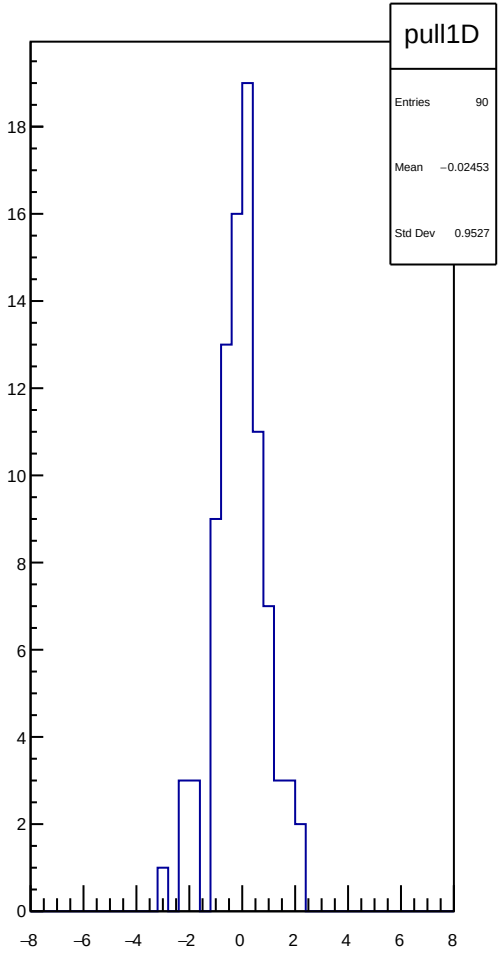

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.46 / 89
p0 −0.0472 ± 0.0399
pull
Entries 90
Mean 236.3
Std Dev 0
pull1D
Entries 90
Mean −0.03455
Std Dev 1.007

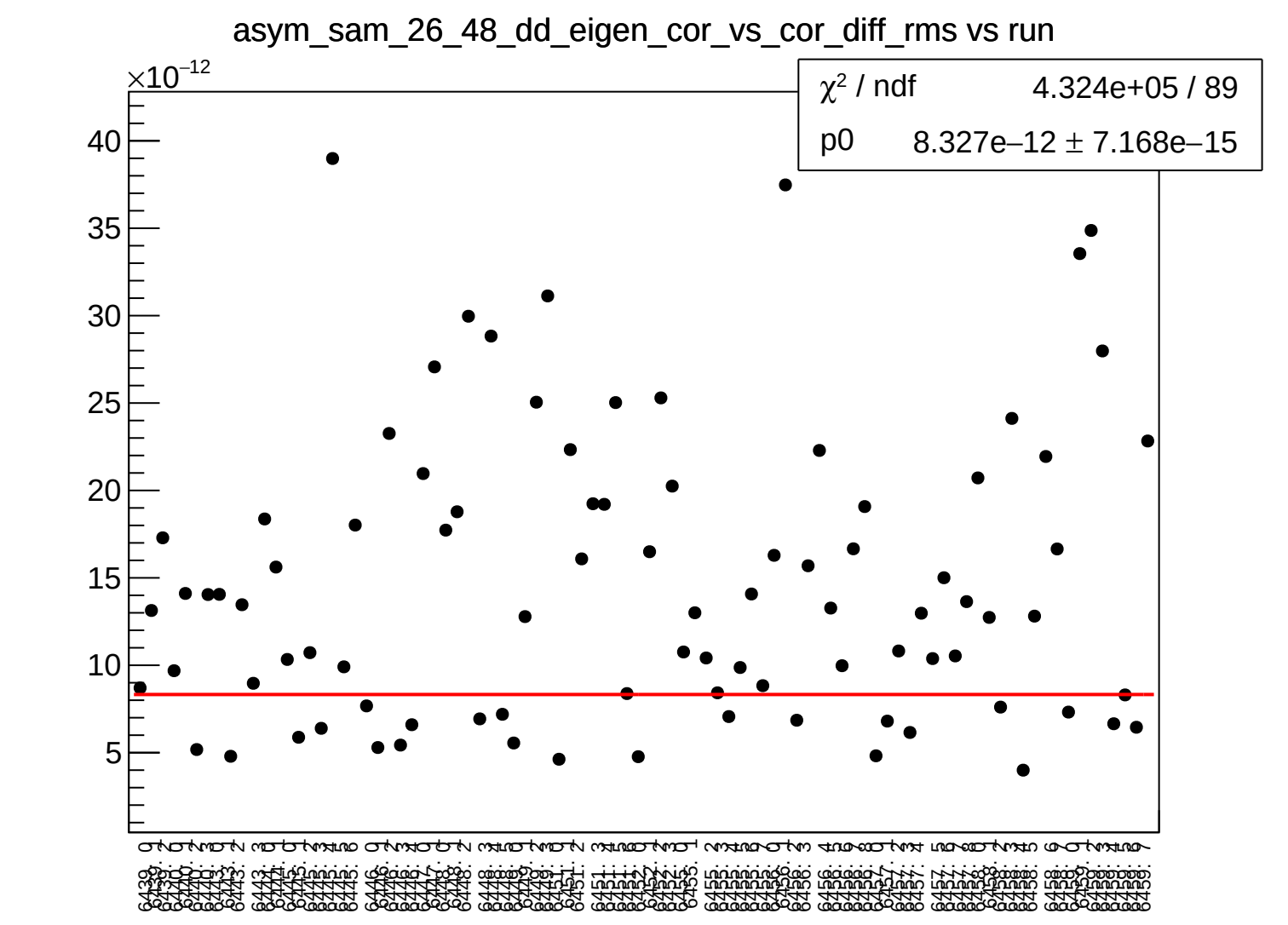

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 9.091e+04 / 89
p0 36.69 ± 0.02821
180
160
140
120
100
80
60
40
20

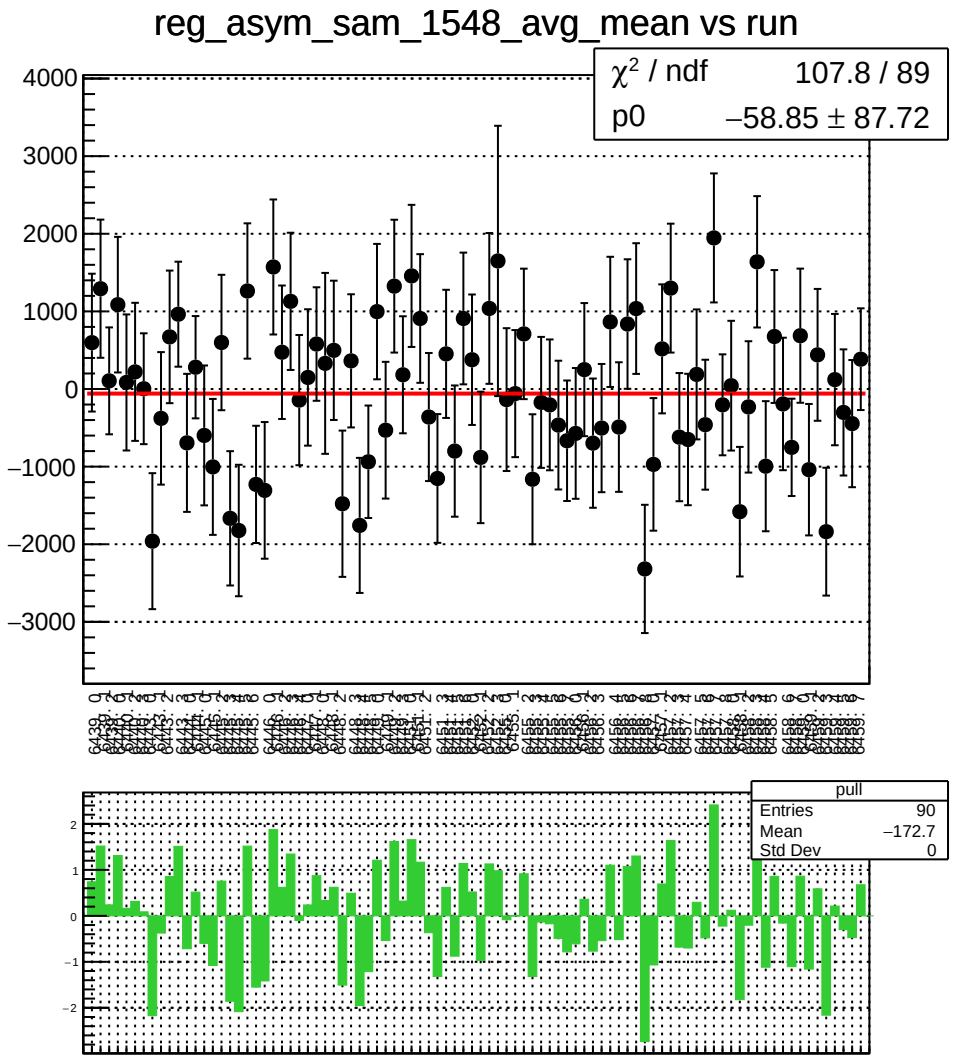

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.46 / 89
p0 −0.0472 ± 0.0399
pull
Entries 90
Mean 236.3
Std Dev 0
pull1D
Entries 90
Mean −0.03455
Std Dev 1.007

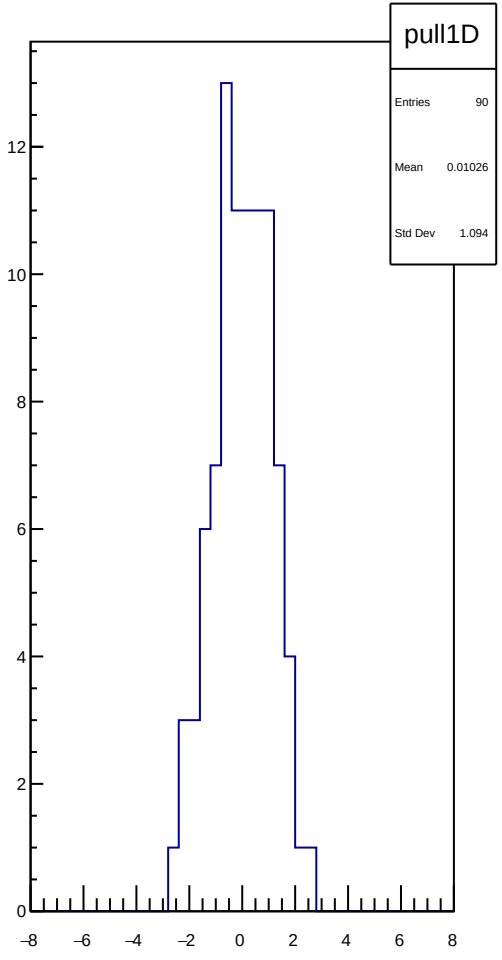

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 9.091e+04 / 89
p0 36.69 ± 0.02821
180
160
140
120
100
80
60
40
20


asym_sam_26_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.74 / 89
p0 2.011e−15 ± 1.014e−14
pull
Entries 90
Mean −101
Std Dev 0

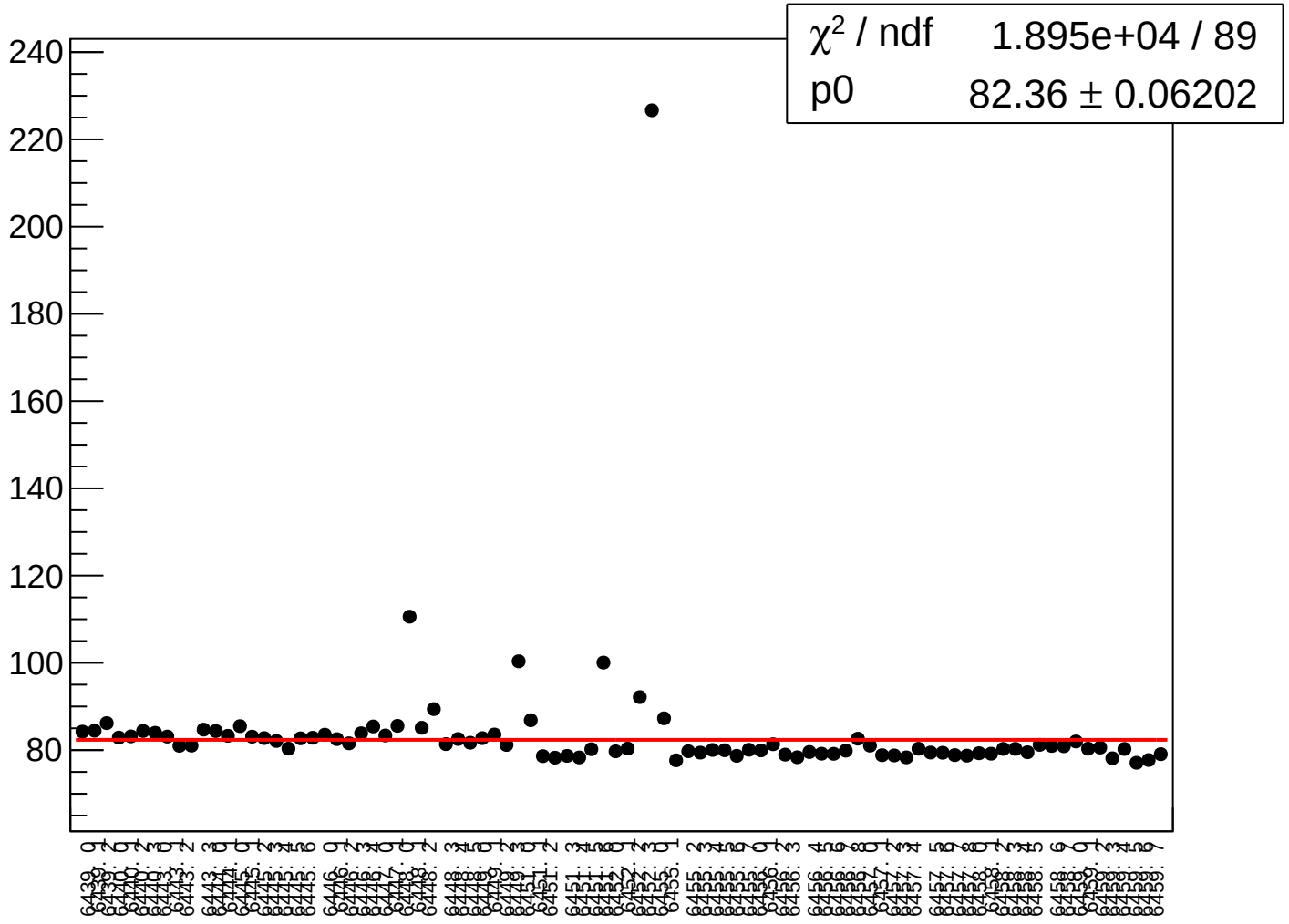

pull1D
Entries 90
Mean −0.02453
Std Dev 0.9527

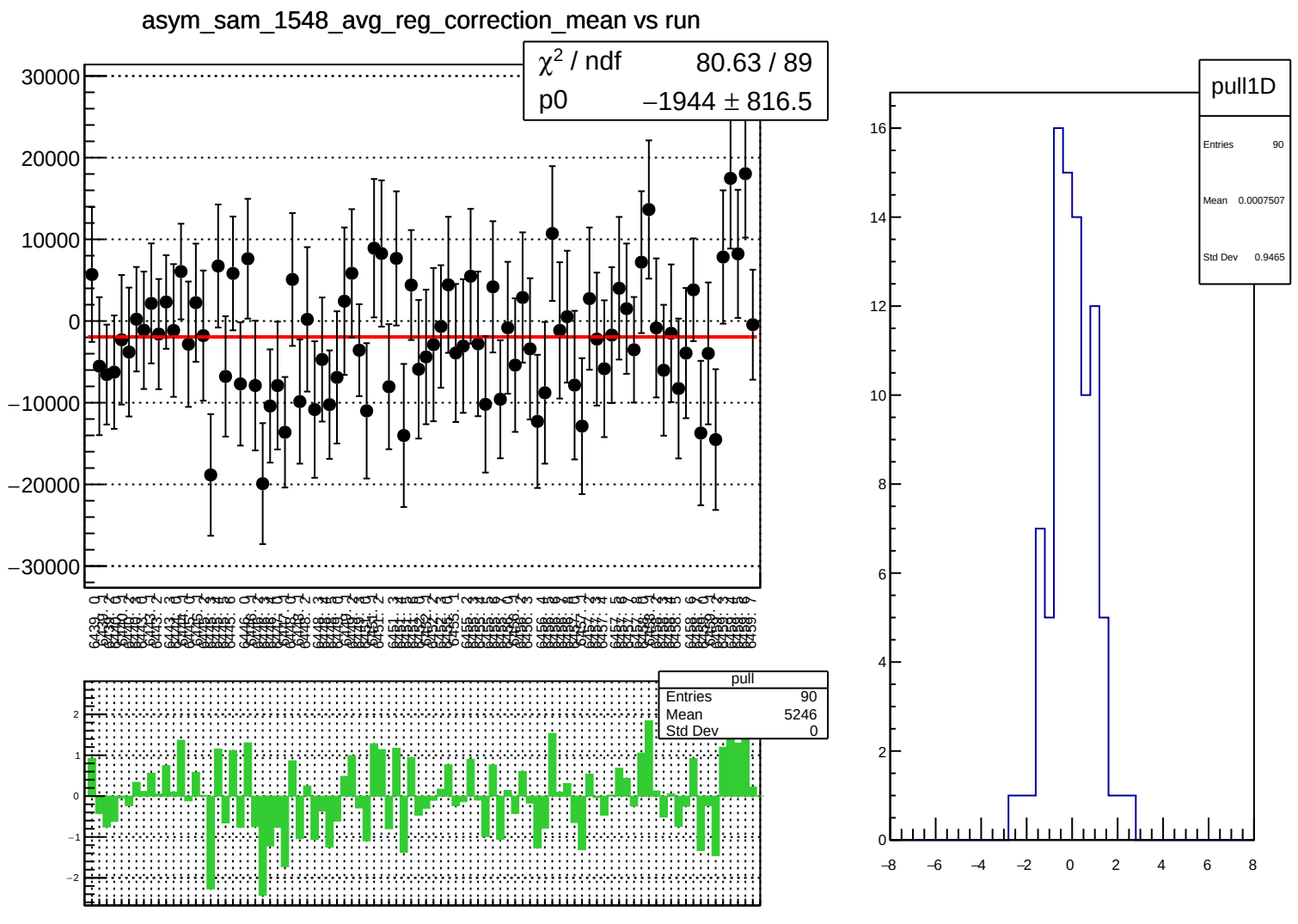

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.324e+05 / 89
p0 8.327e−12 ± 7.168e−15
40
35
30
25
20
15
10
5

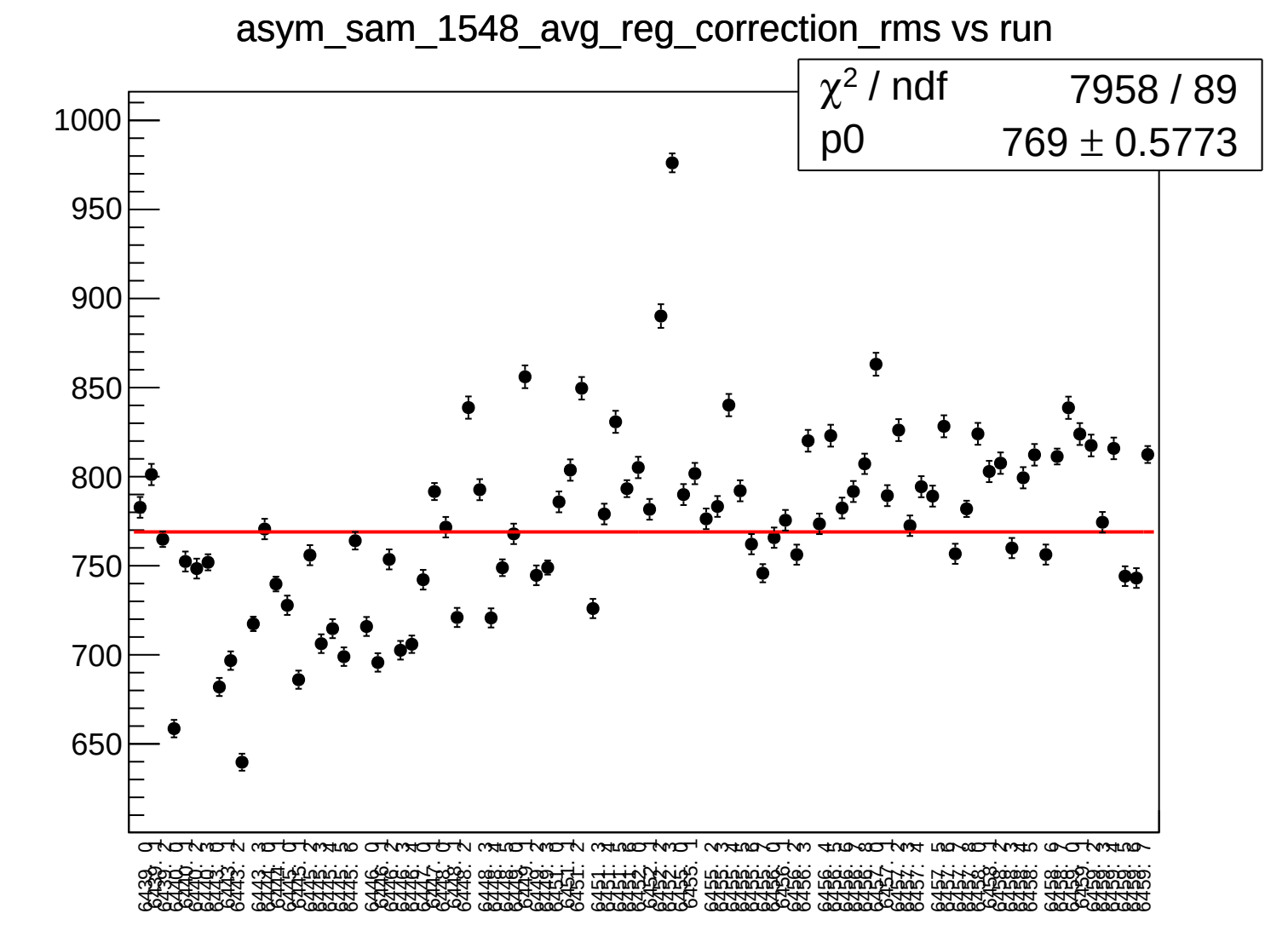

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 107.8 / 89
p0 −58.85 ± 87.72
pull
Entries 90
Mean −172.7
Std Dev 0

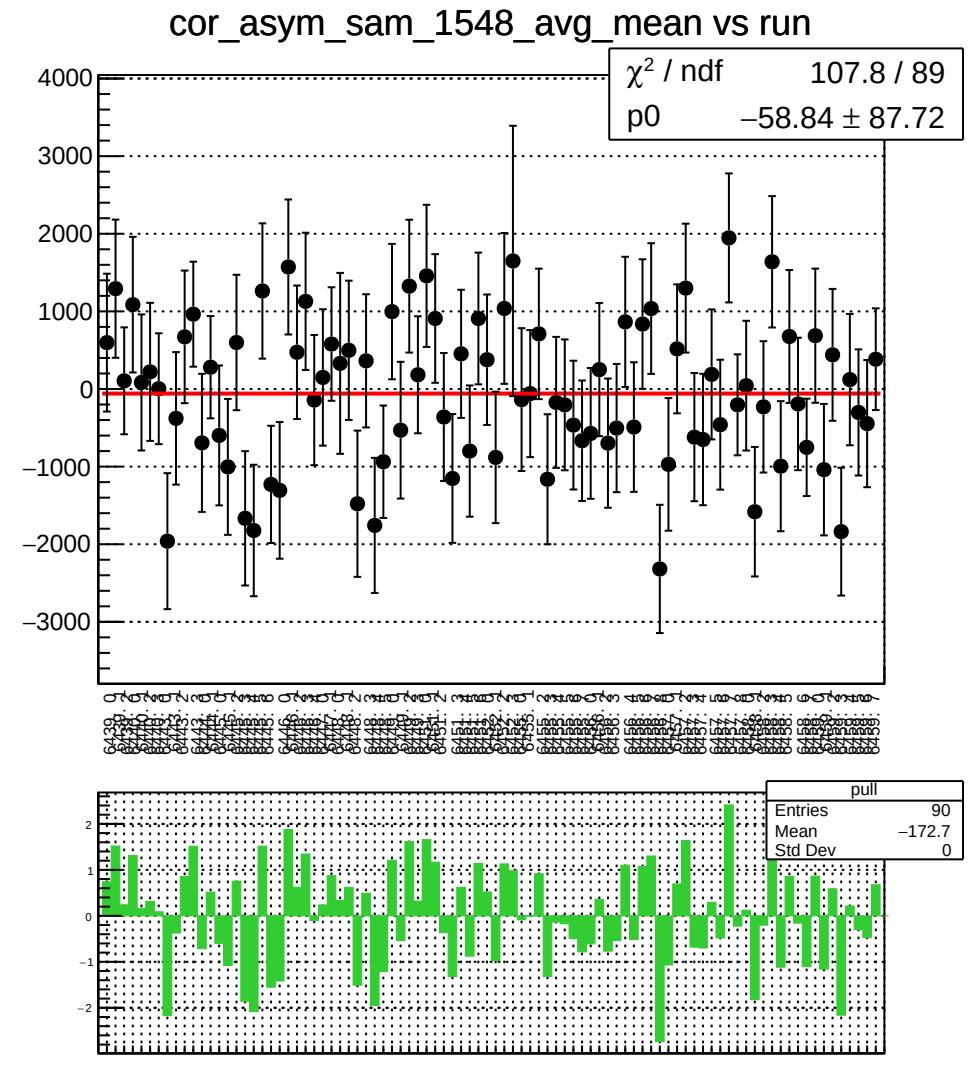

pull1D
Entries 90
Mean 0.01026
Std Dev 1.094

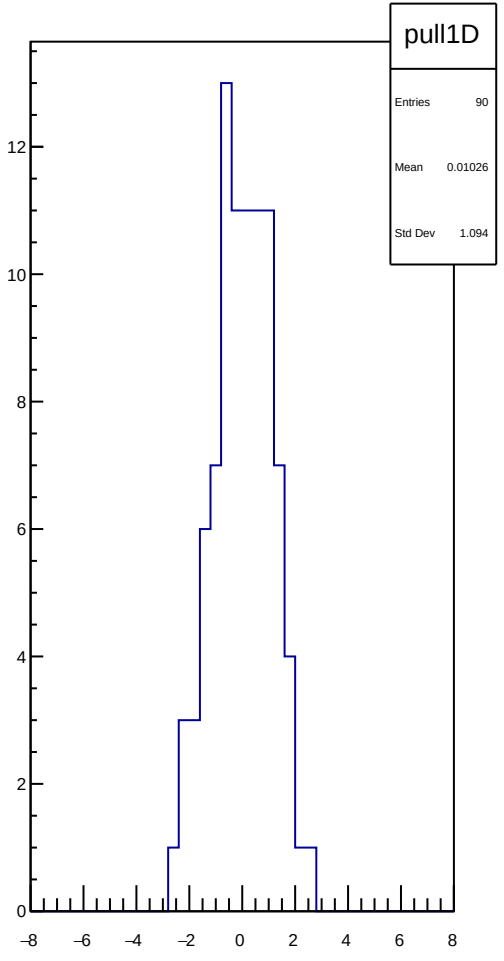
reg_asym_sam_1548_avg_rms vs run

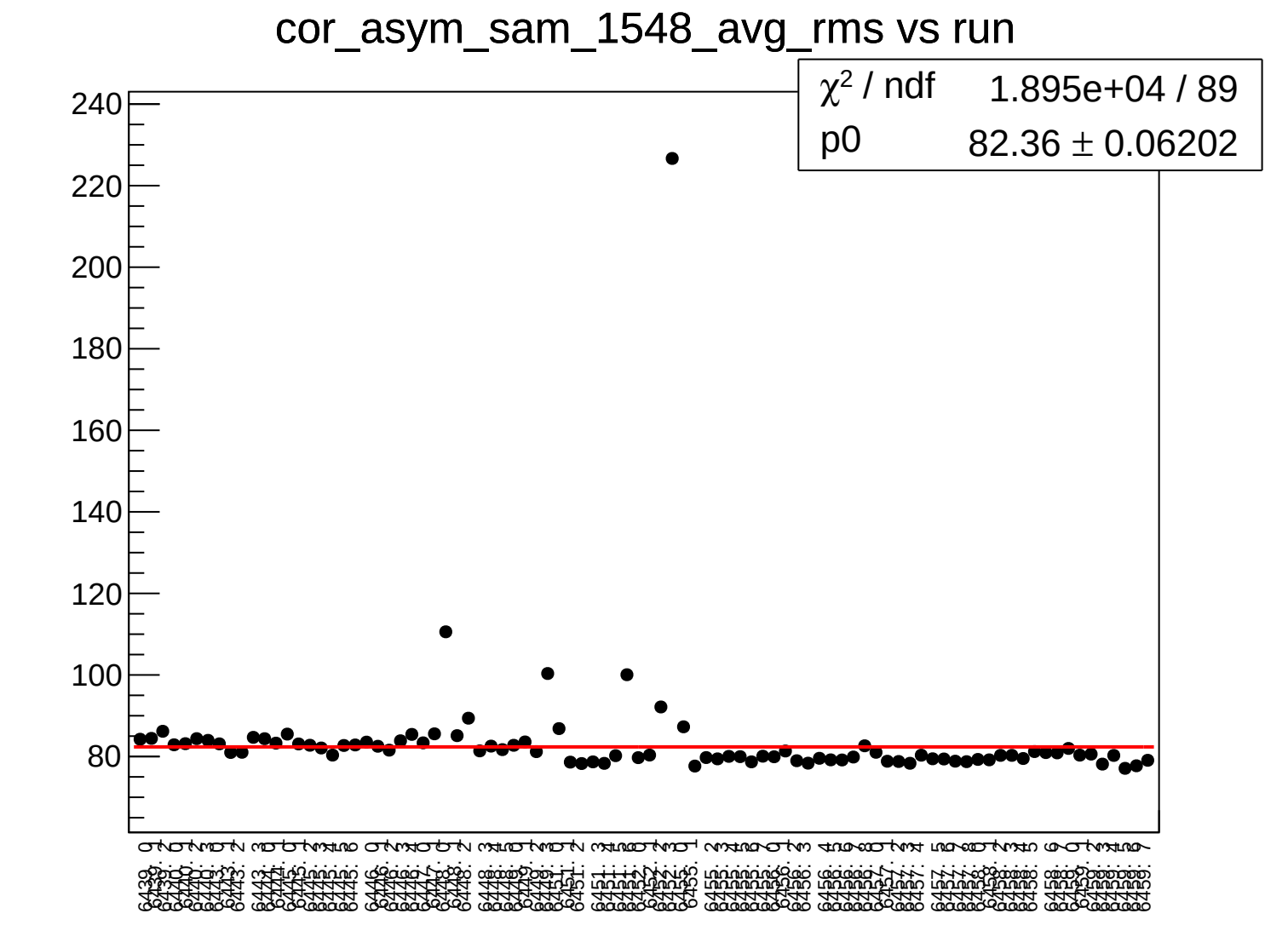


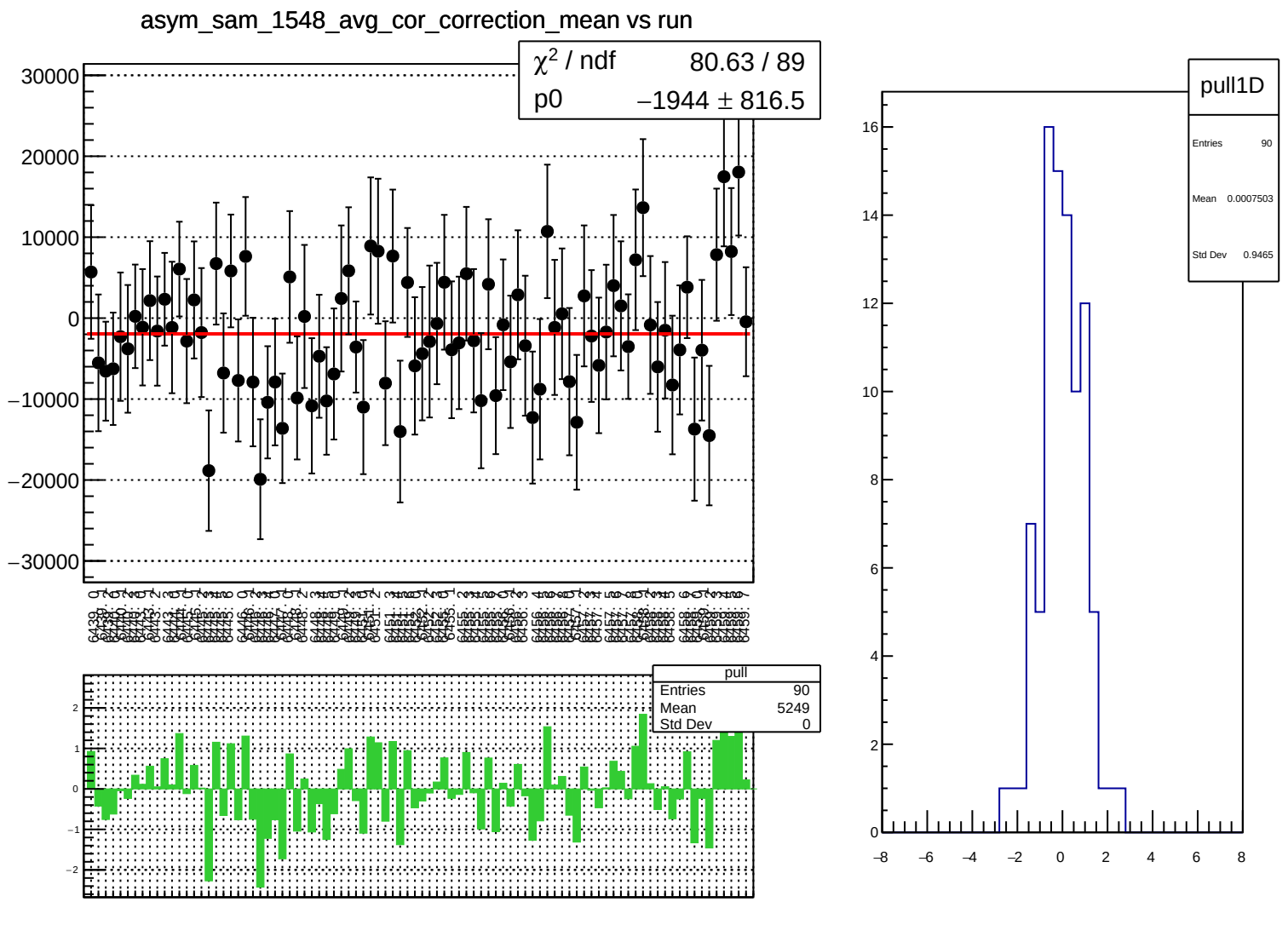

asym_sam_1548_avg_reg_correction_mean vs run
χ² / ndf 80.63 / 89
p0 −1944 ± 816.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean 5246
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 90
Mean 0.0007507
Std Dev 0.9465
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

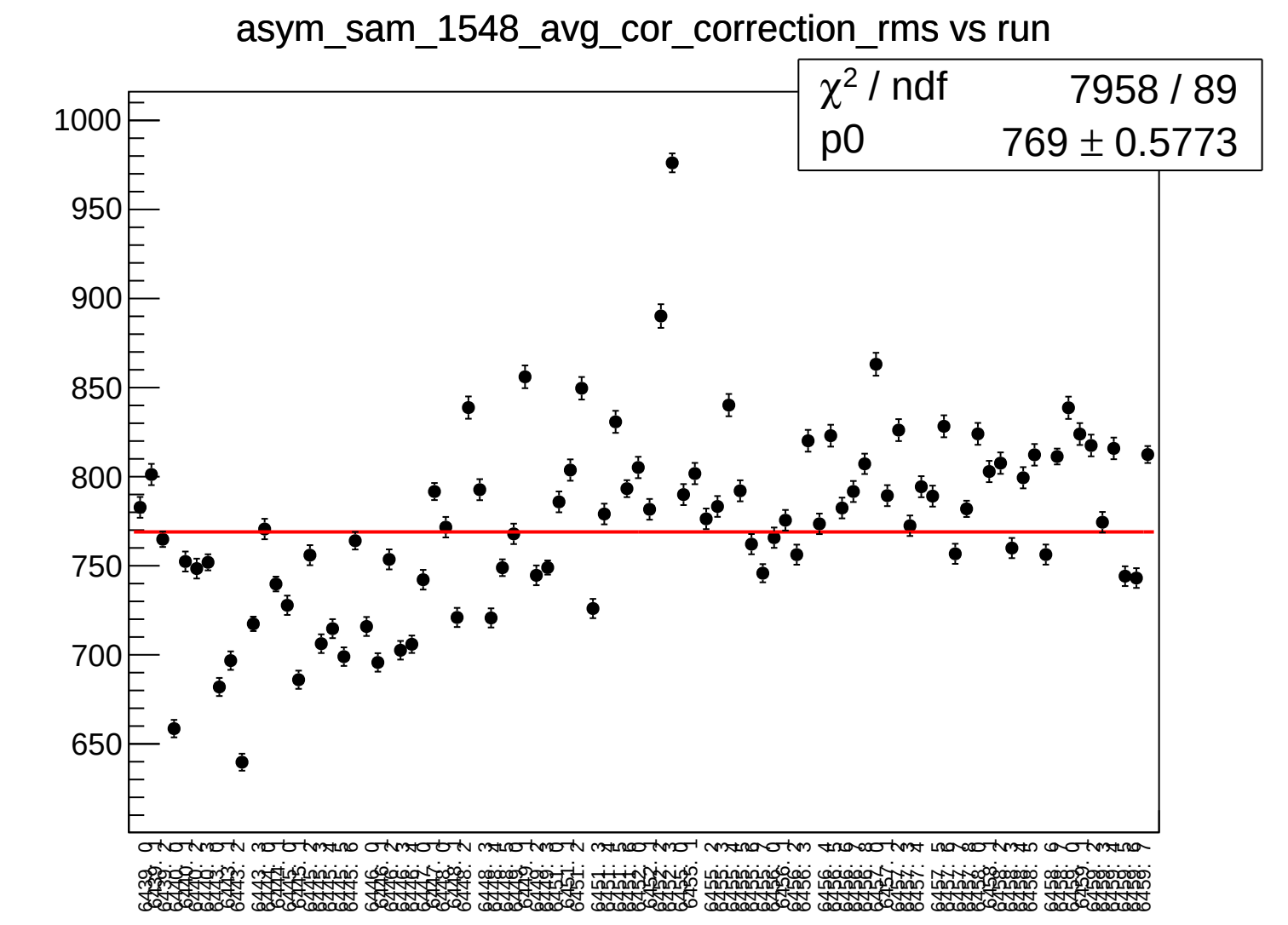

asym_sam_1548_avg_reg_correction_rms vs run
χ² / ndf 7958 / 89
p0 769 ± 0.5773
1000
950
900
850
800
750
700
650

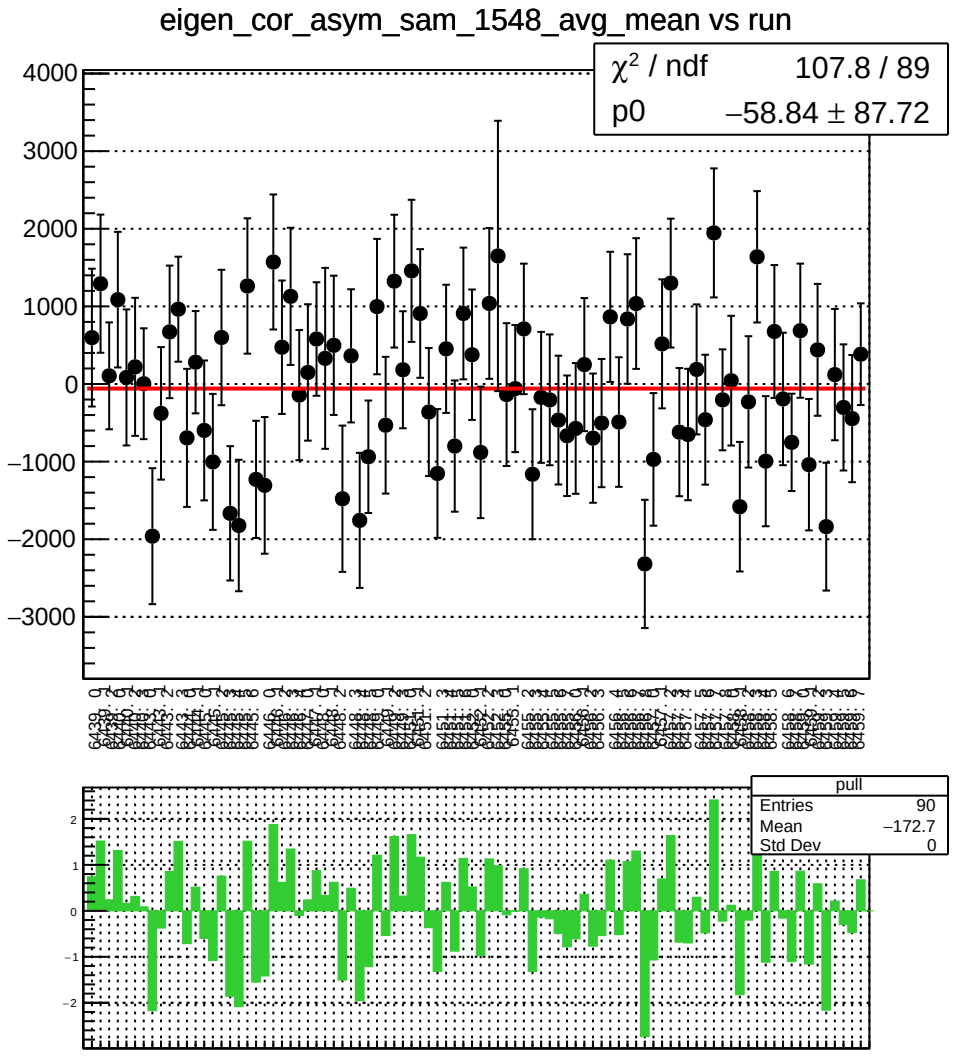

cor_asym_sam_1548_avg_mean vs run
χ² / ndf 107.8 / 89
p0 −58.84 ± 87.72
pull
Entries 90
Mean −172.7
Std Dev 0

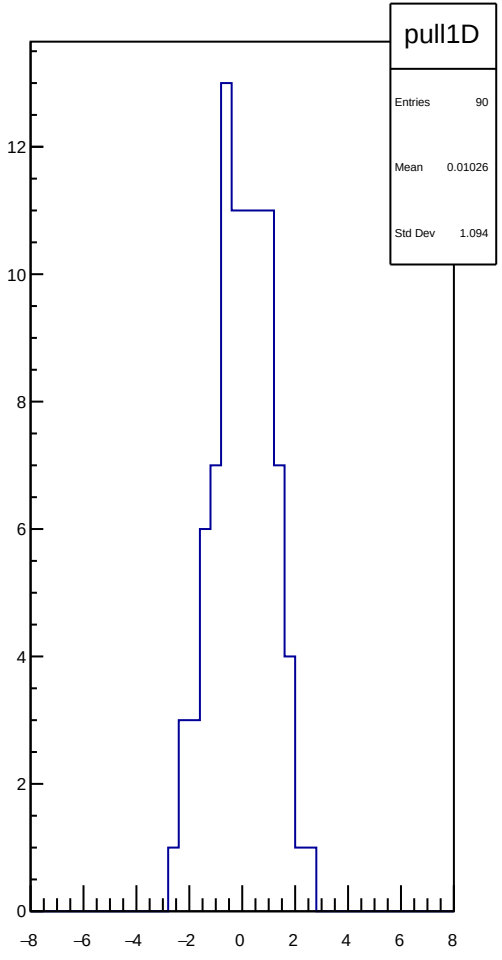

pull1D
Entries 90
Mean 0.01026
Std Dev 1.094

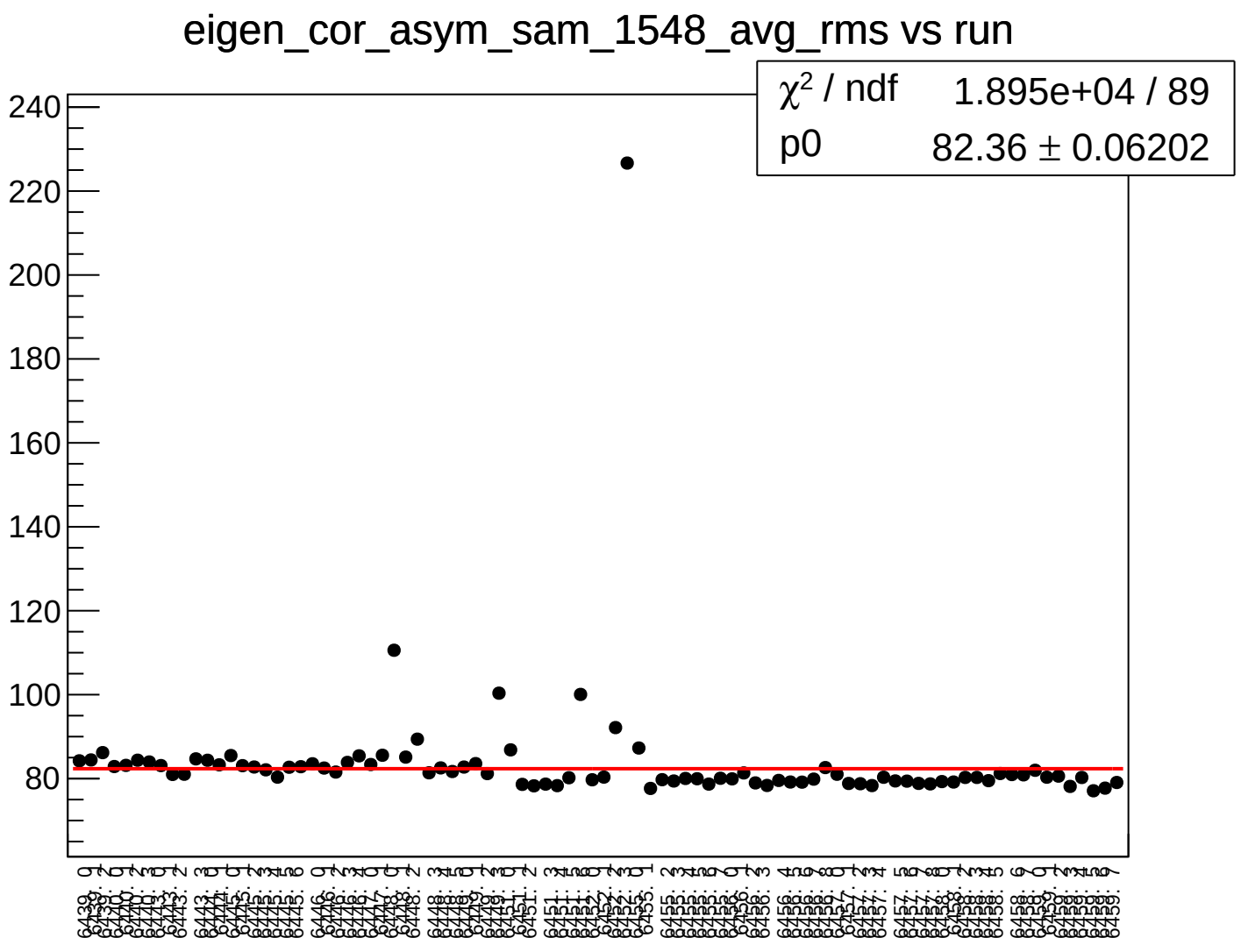

cor_asym_sam_1548_avg_rms vs run
χ² / ndf 1.895e+04 / 89
p0 82.36 ± 0.06202
240
220
200
180
160
140
120
100
80

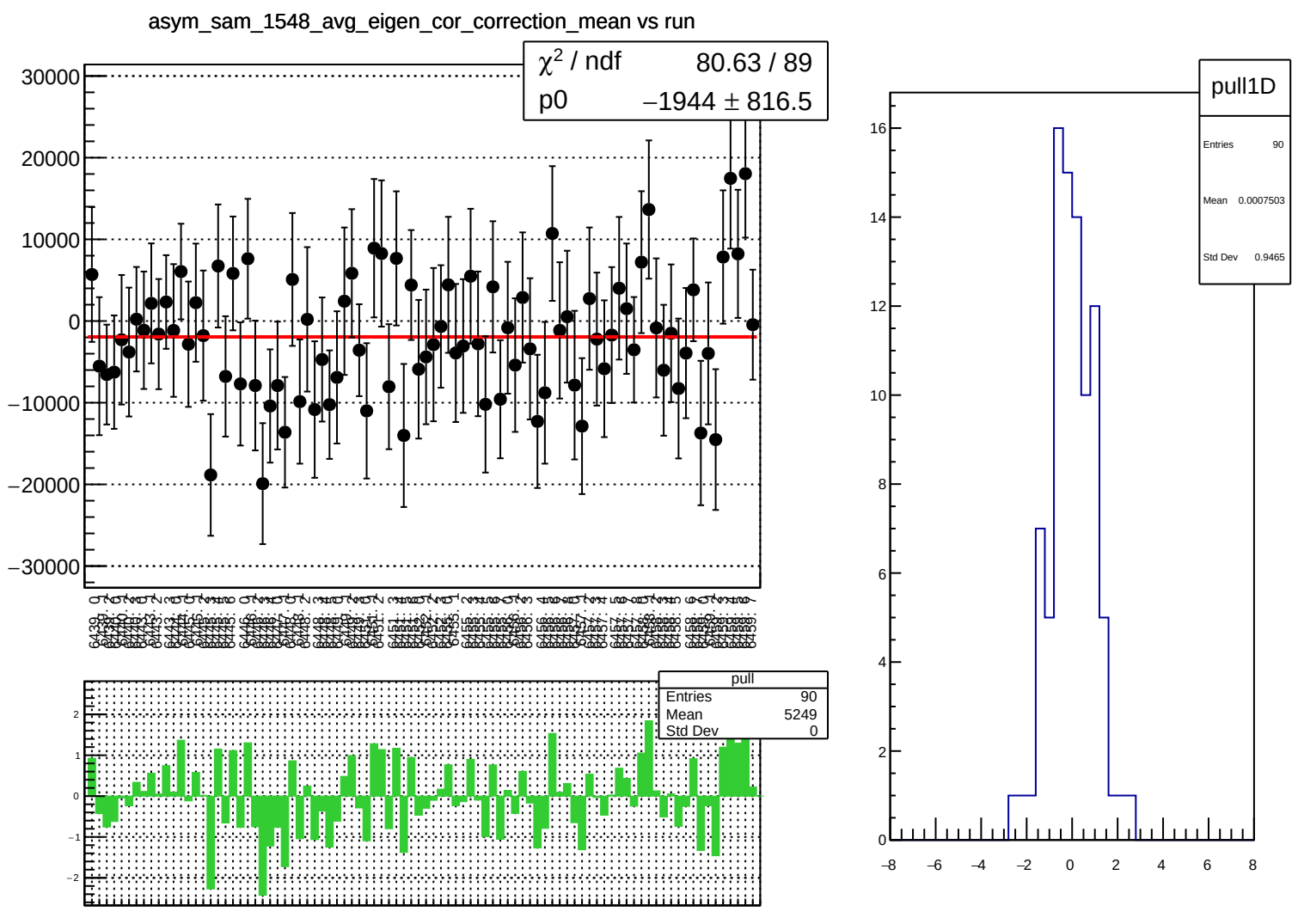

asym_sam_1548_avg_cor_correction_mean vs run
χ² / ndf 80.63 / 89
p0 −1944 ± 816.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean 5249
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 90
Mean 0.0007503
Std Dev 0.9465
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

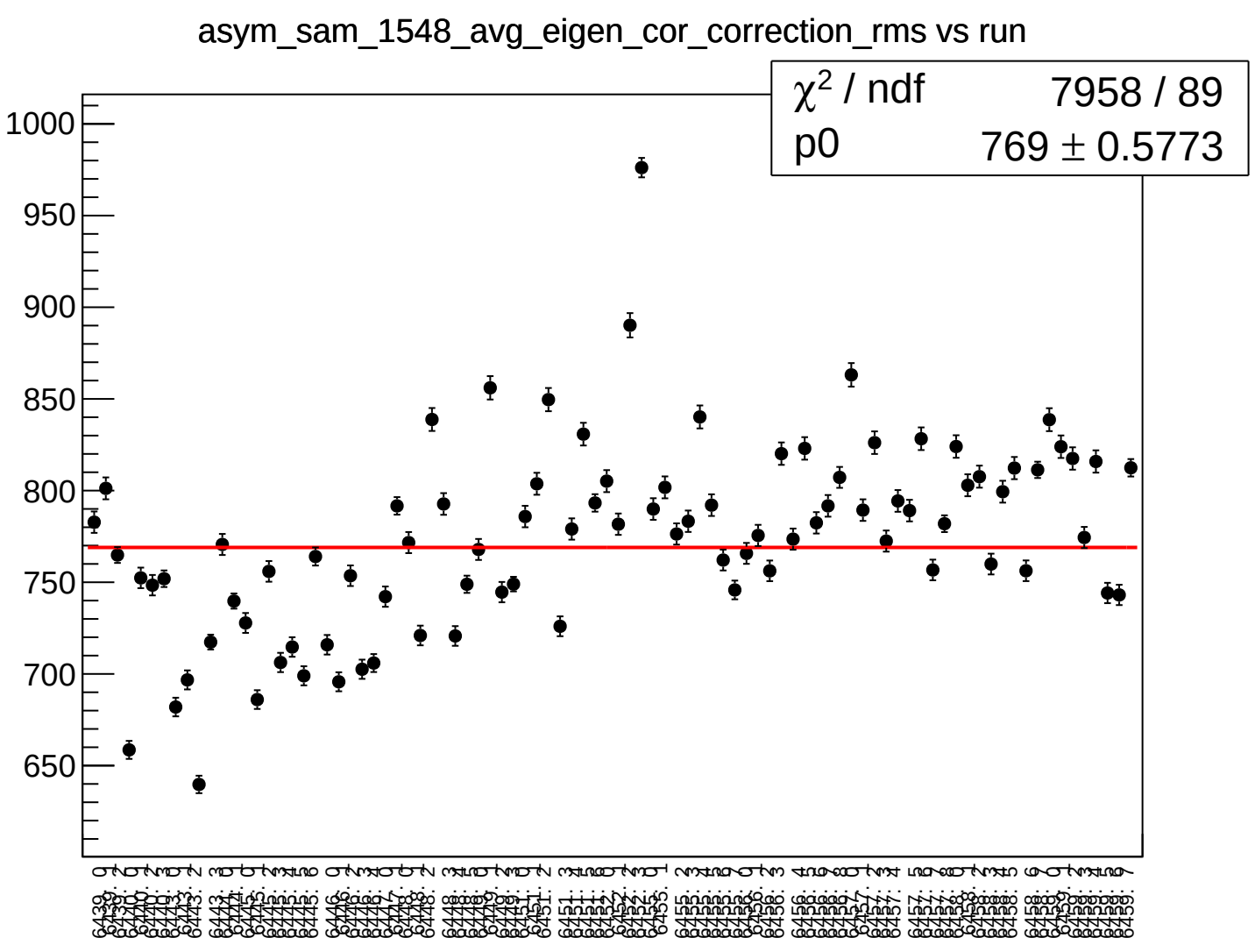

asym_sam_1548_avg_cor_correction_rms vs run
χ² / ndf 7958 / 89
p0 769 ± 0.5773
1000
950
900
850
800
750
700
650

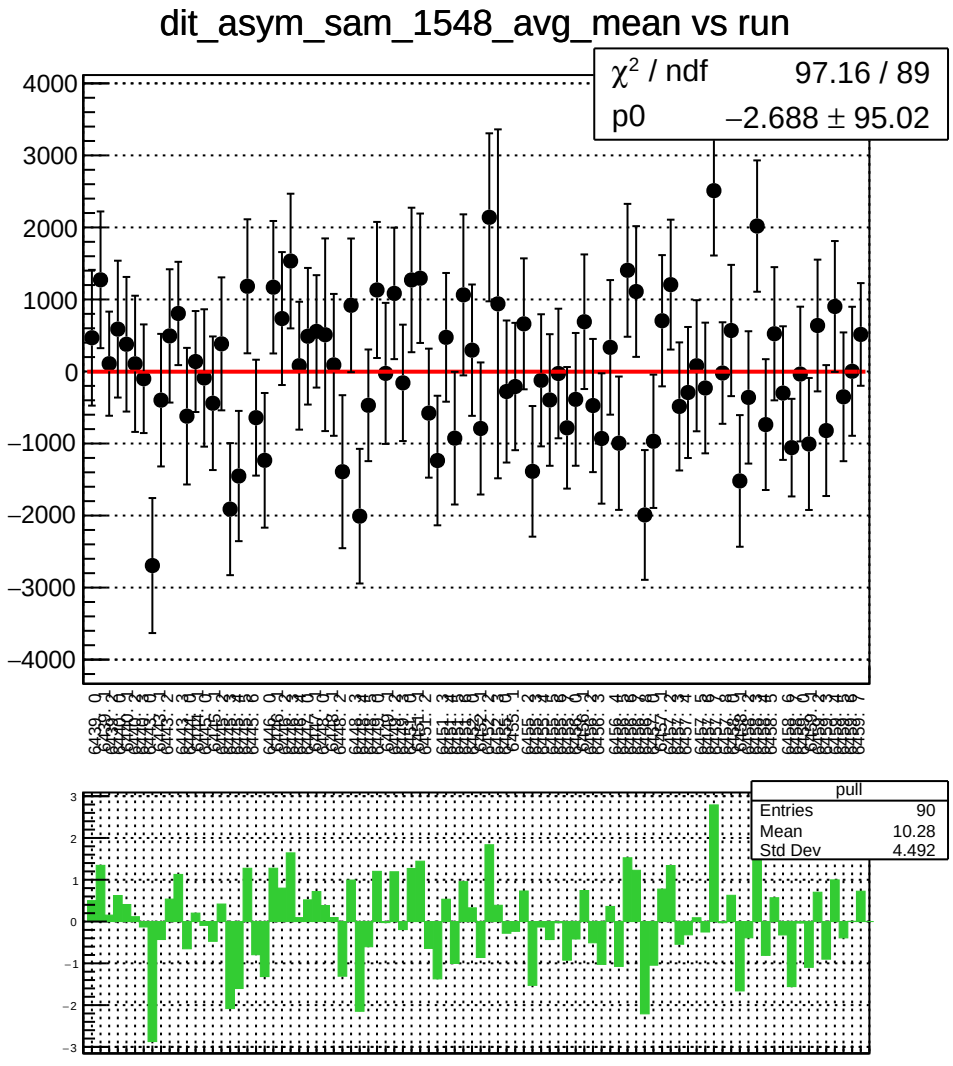

eigen_cor_asym_sam_1548_avg_mean vs run
χ² / ndf 107.8 / 89
p0 −58.84 ± 87.72
pull
Entries 90
Mean −172.7
Std Dev 0

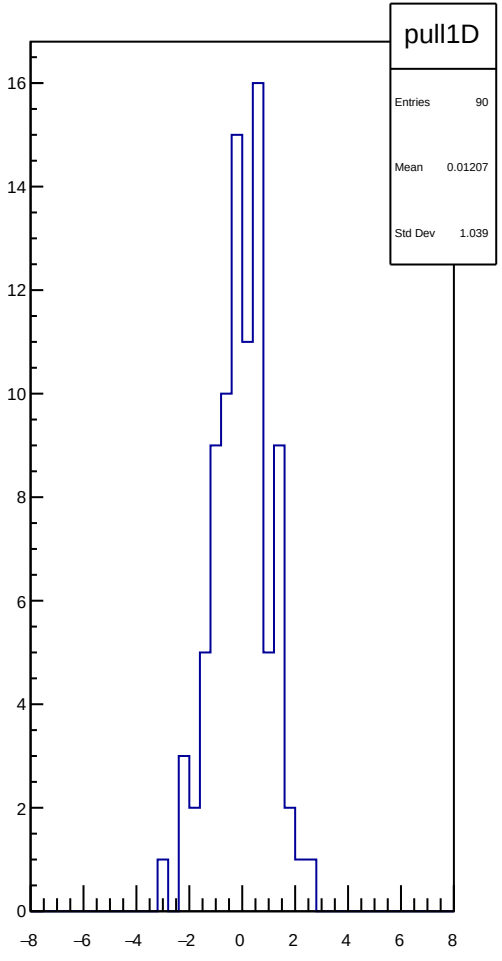

pull1D
Entries 90
Mean 0.01026
Std Dev 1.094

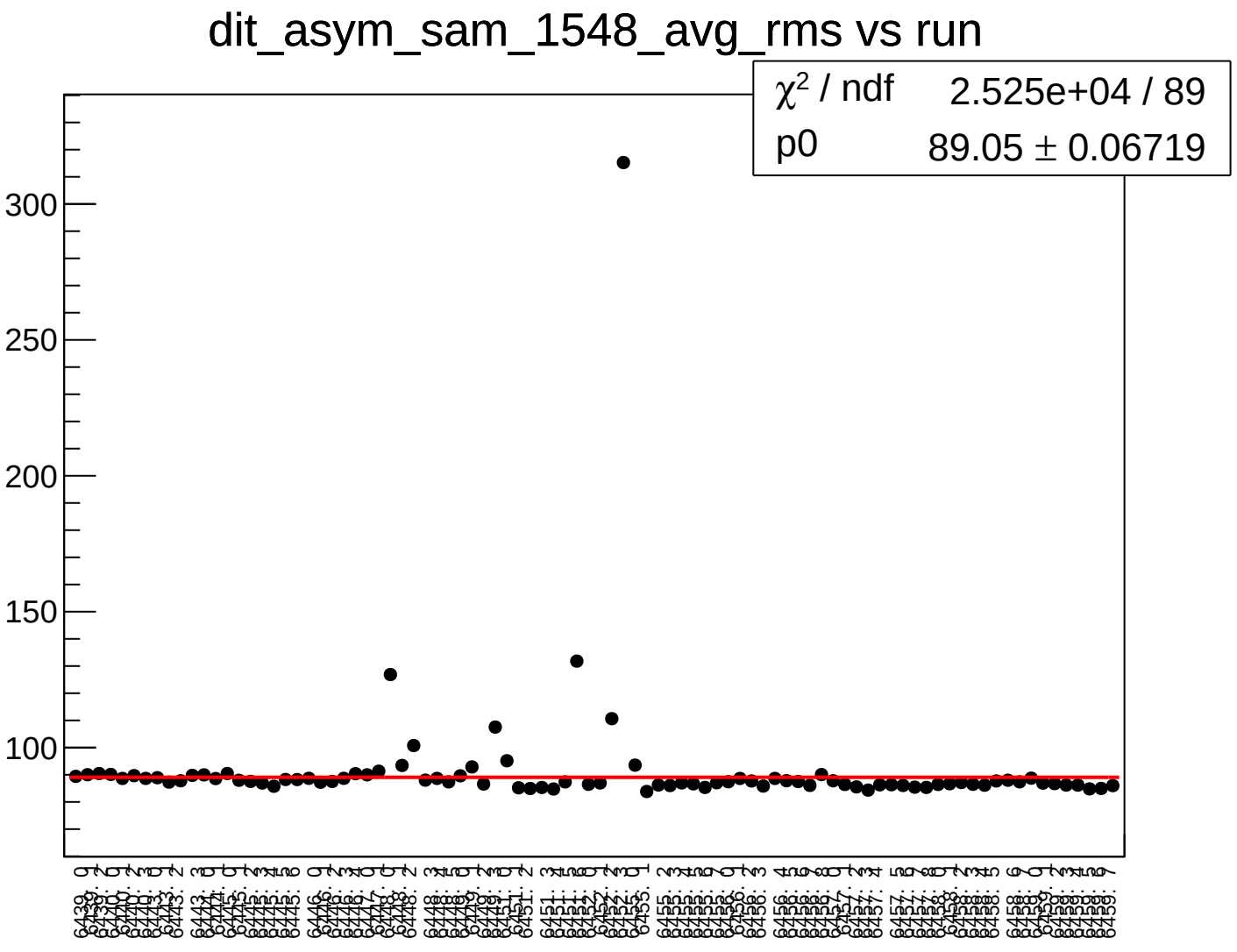

eigen_cor_asym_sam_1548_avg_rms vs run
χ² / ndf 1.895e+04 / 89
p0 82.36 ± 0.06202
240
220
200
180
160
140
120
100
80

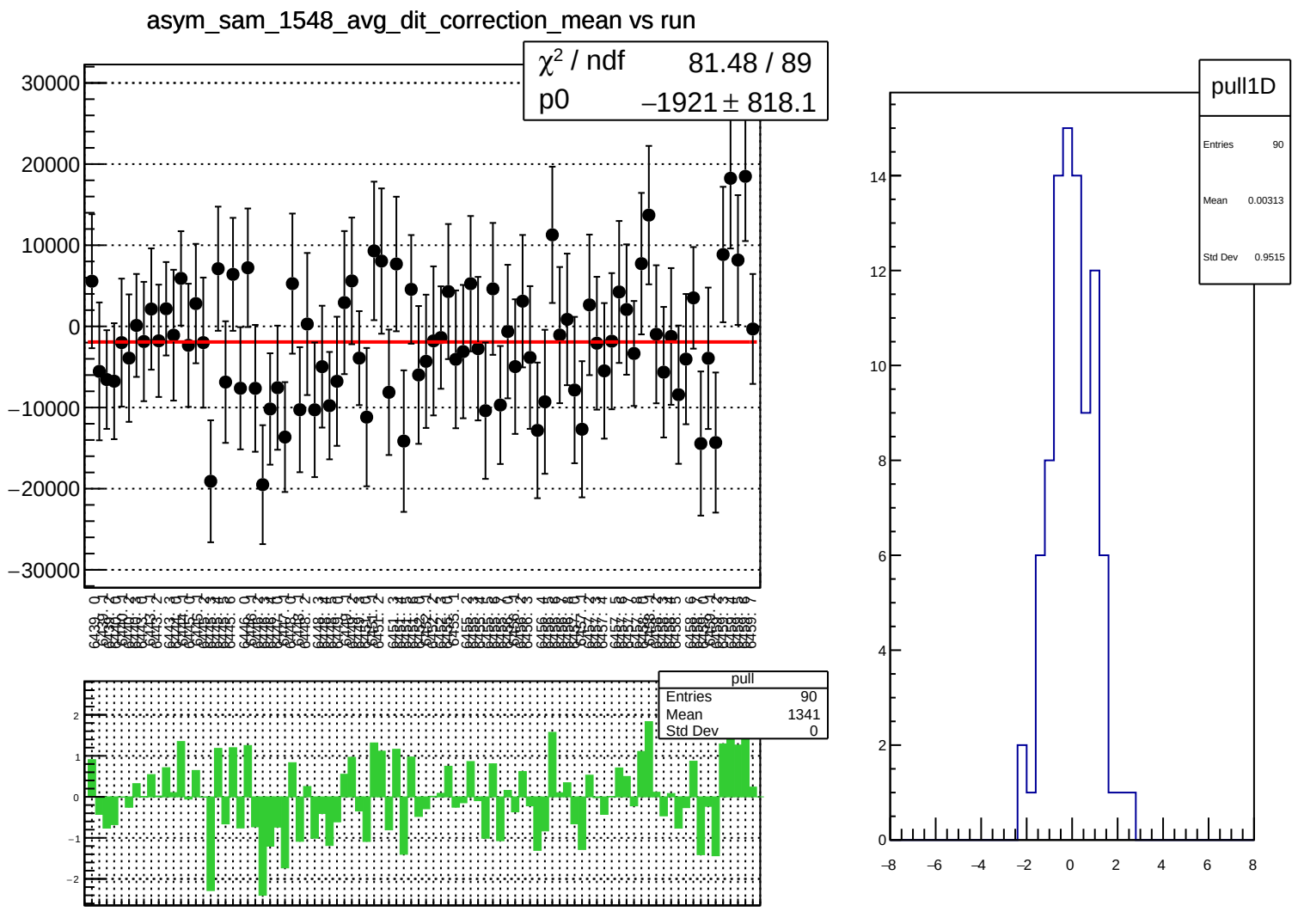

asym_sam_1548_avg_eigen_cor_correction_mean vs run
χ² / ndf 80.63 / 89
p0 −1944 ± 816.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean 5249
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 90
Mean 0.0007503
Std Dev 0.9465
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

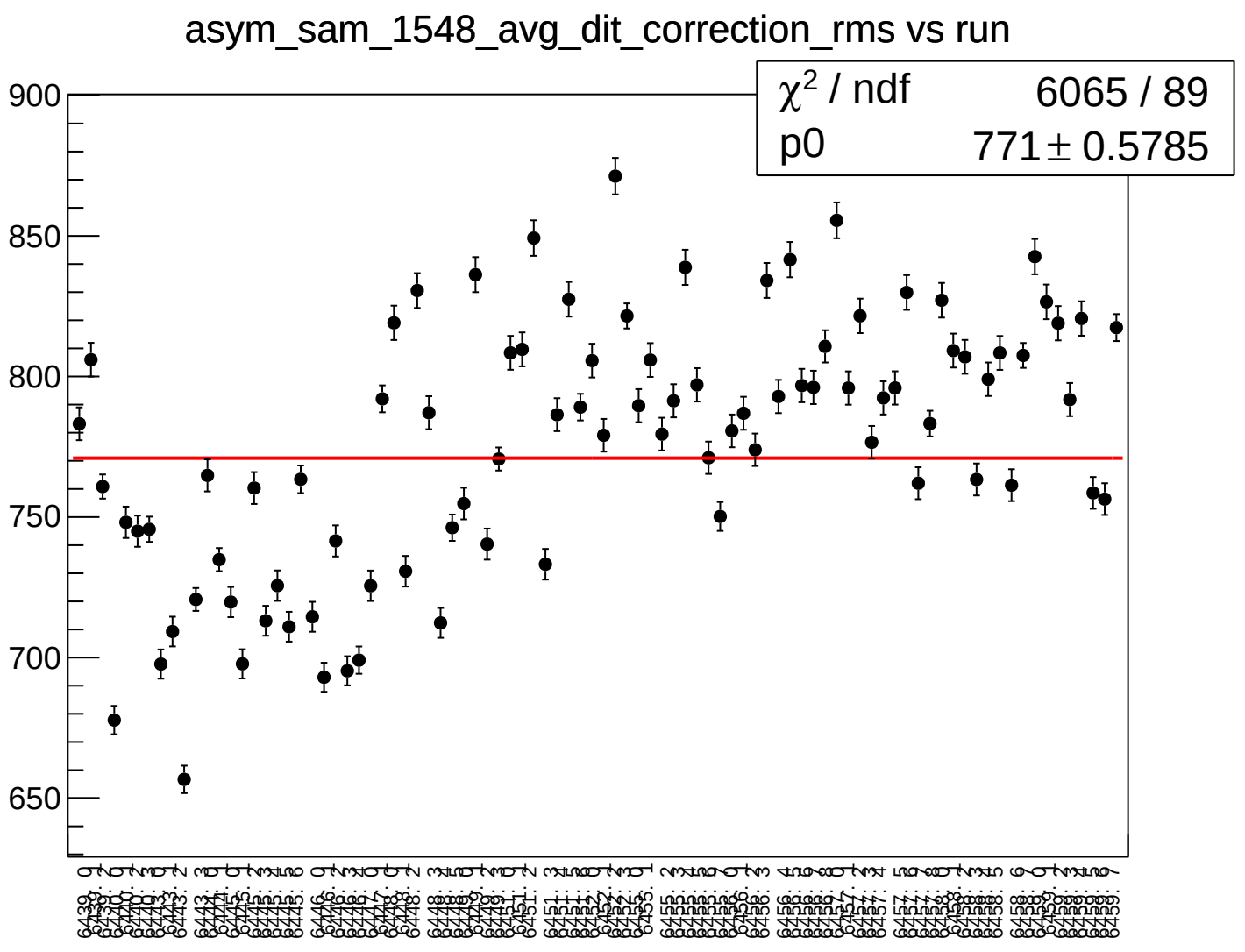

asym_sam_1548_avg_eigen_cor_correction_rms vs run
χ² / ndf 7958 / 89
p0 769 ± 0.5773
1000
950
900
850
800
750
700
650

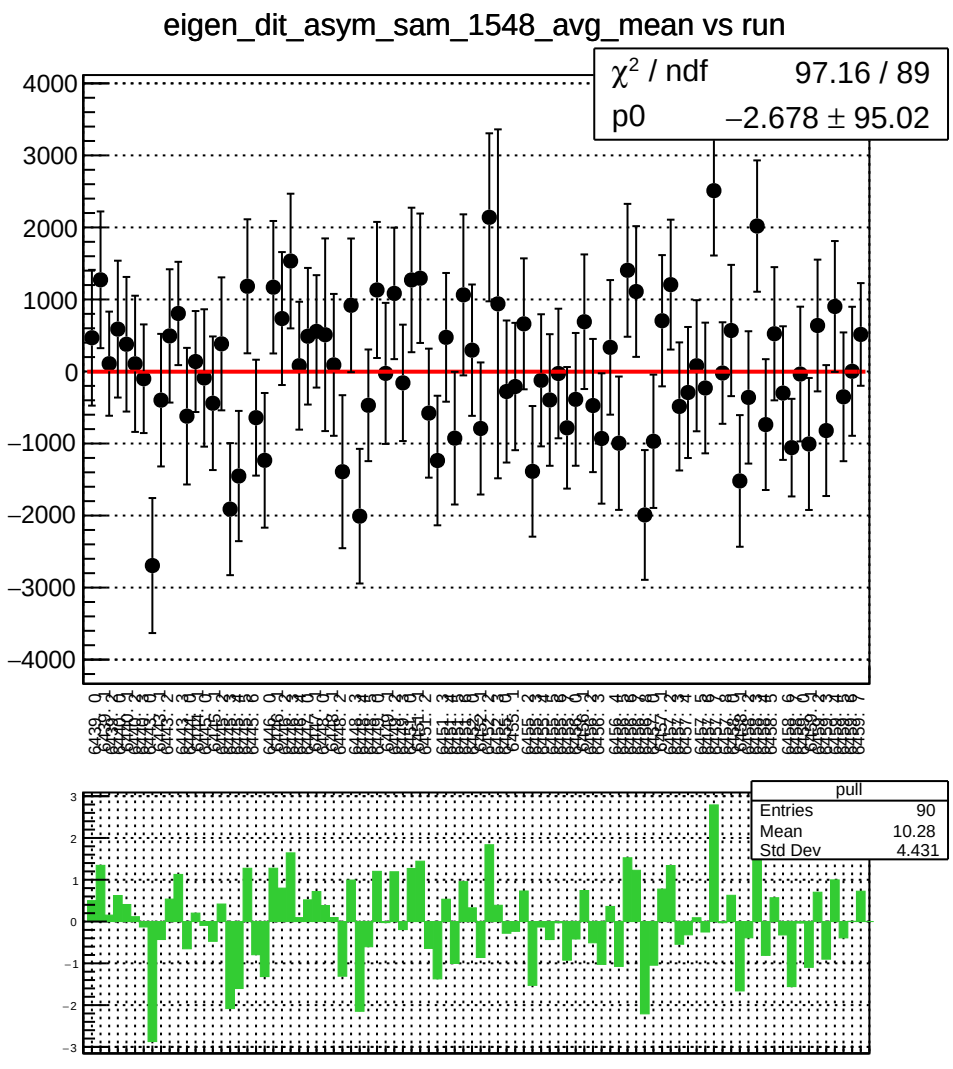

dit_asym_sam_1548_avg_mean vs run
χ² / ndf 97.16 / 89
p0 −2.688 ± 95.02
pull
Entries 90
Mean 10.28
Std Dev 4.492

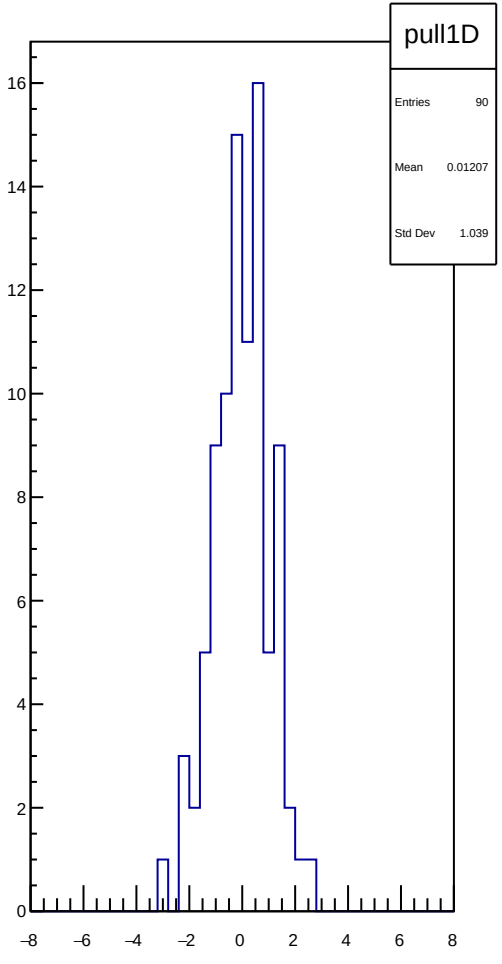

pull1D
Entries 90
Mean 0.01207
Std Dev 1.039

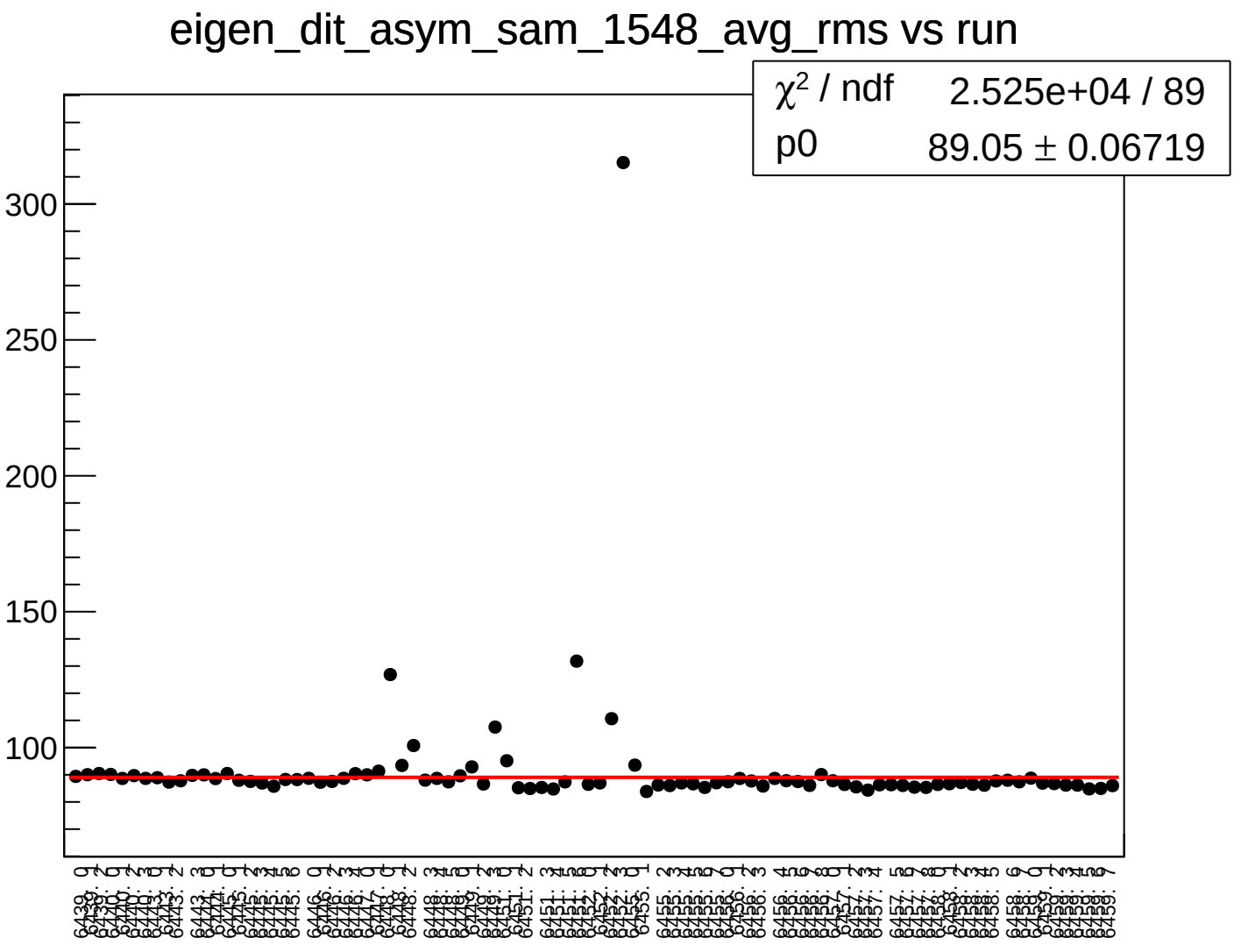

dit_asym_sam_1548_avg_rms vs run
χ² / ndf 2.525e+04 / 89
p0 89.05 ± 0.06719
300
250
200
150
100

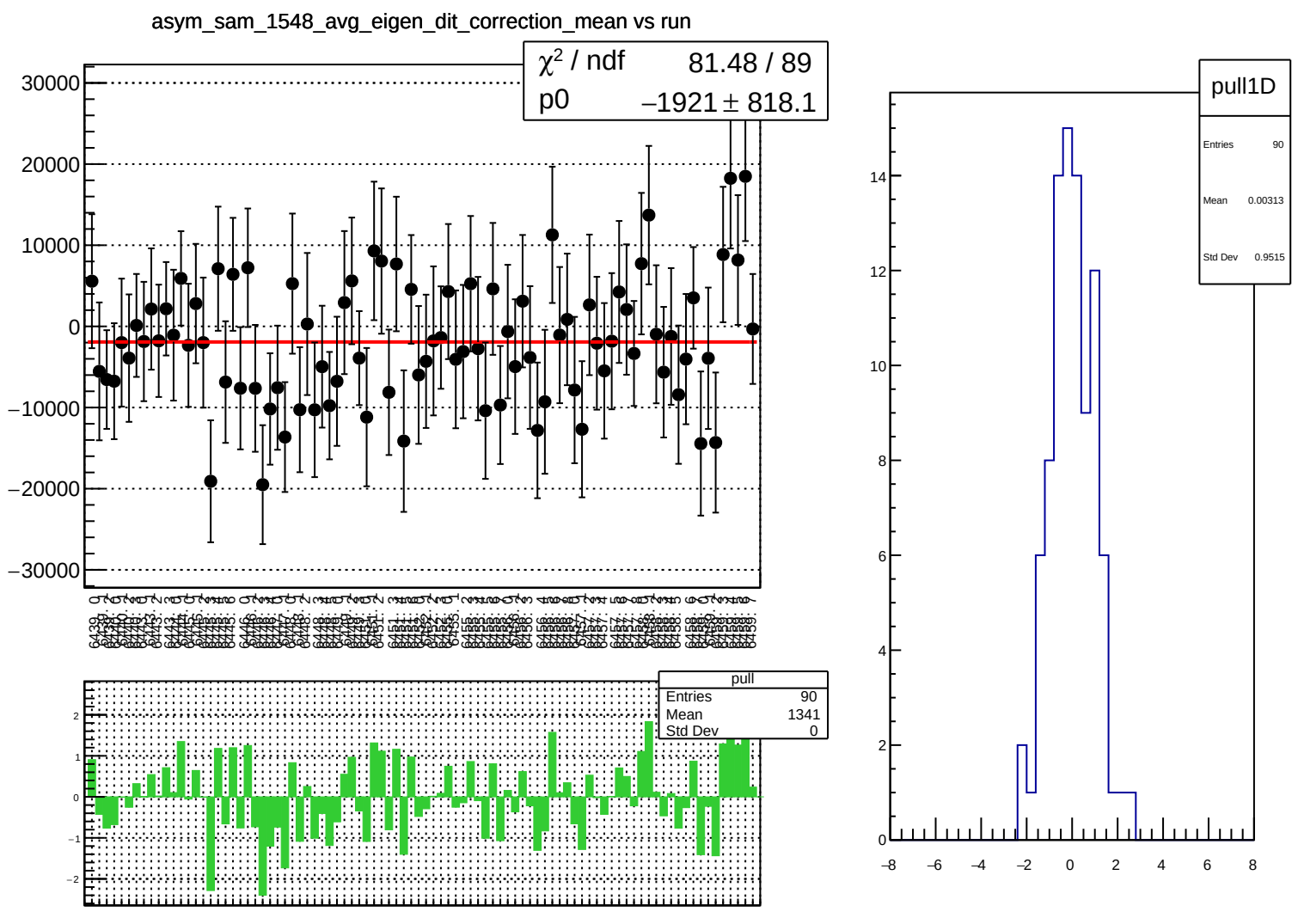

asym_sam_1548_avg_dit_correction_mean vs run
χ² / ndf 81.48 / 89
p0 −1921 ± 818.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean 1341
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 90
Mean 0.00313
Std Dev 0.9515
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

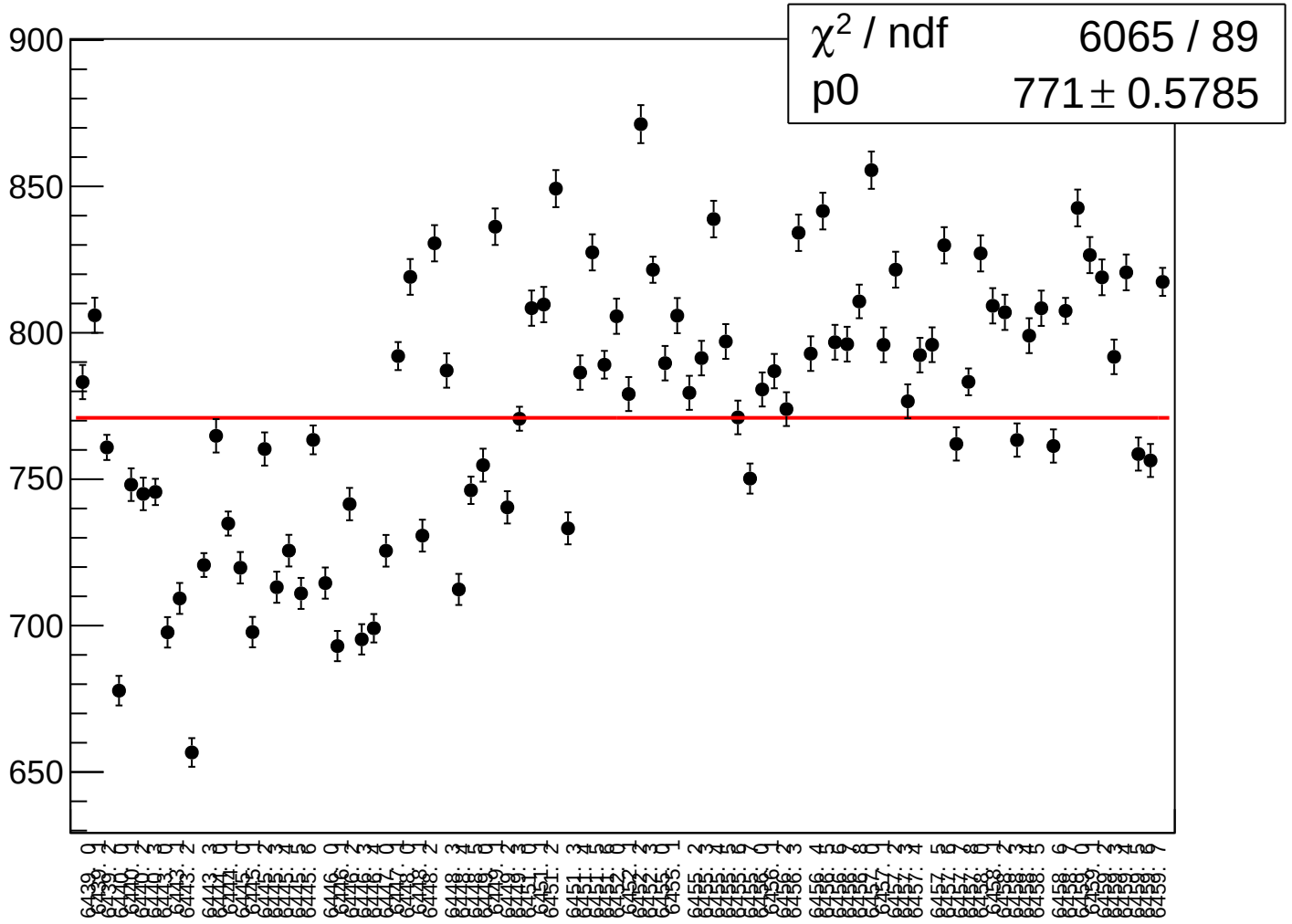

asym_sam_1548_avg_dit_correction_rms vs run
χ^2 / ndf 6065 / 89
p0 771 ± 0.5785
900
850
800
750
700
650

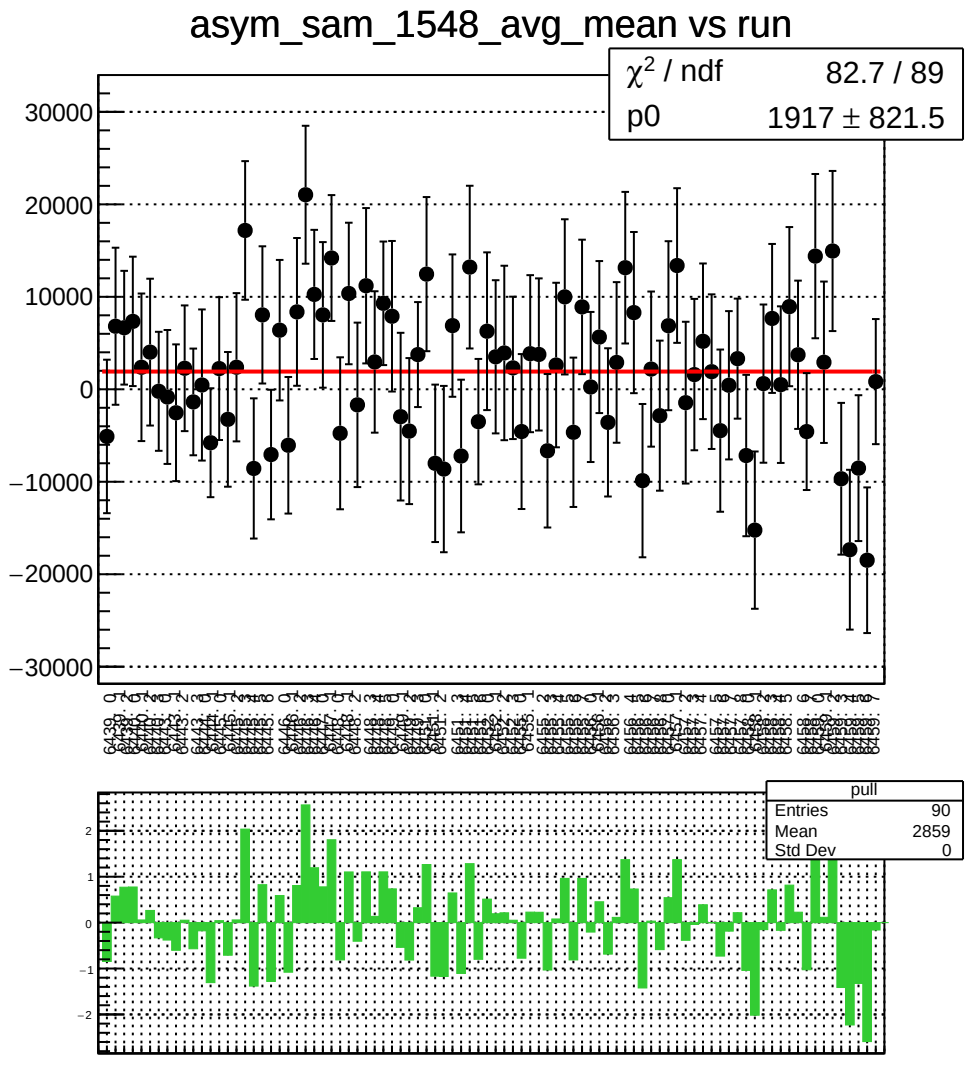

eigen_dit_asym_sam_1548_avg_mean vs run
χ² / ndf 97.16 / 89
p0 −2.678 ± 95.02
pull
Entries 90
Mean 10.28
Std Dev 4.431

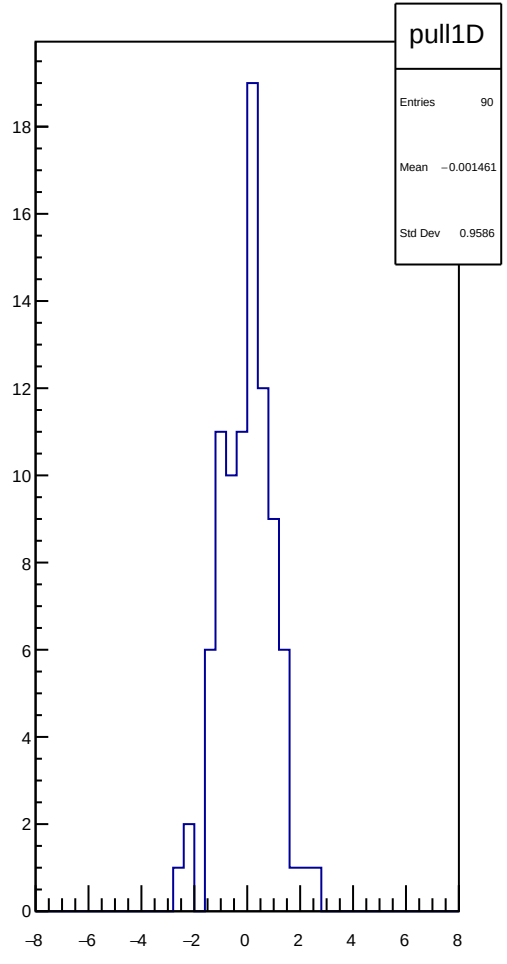

pull1D
Entries 90
Mean 0.01207
Std Dev 1.039

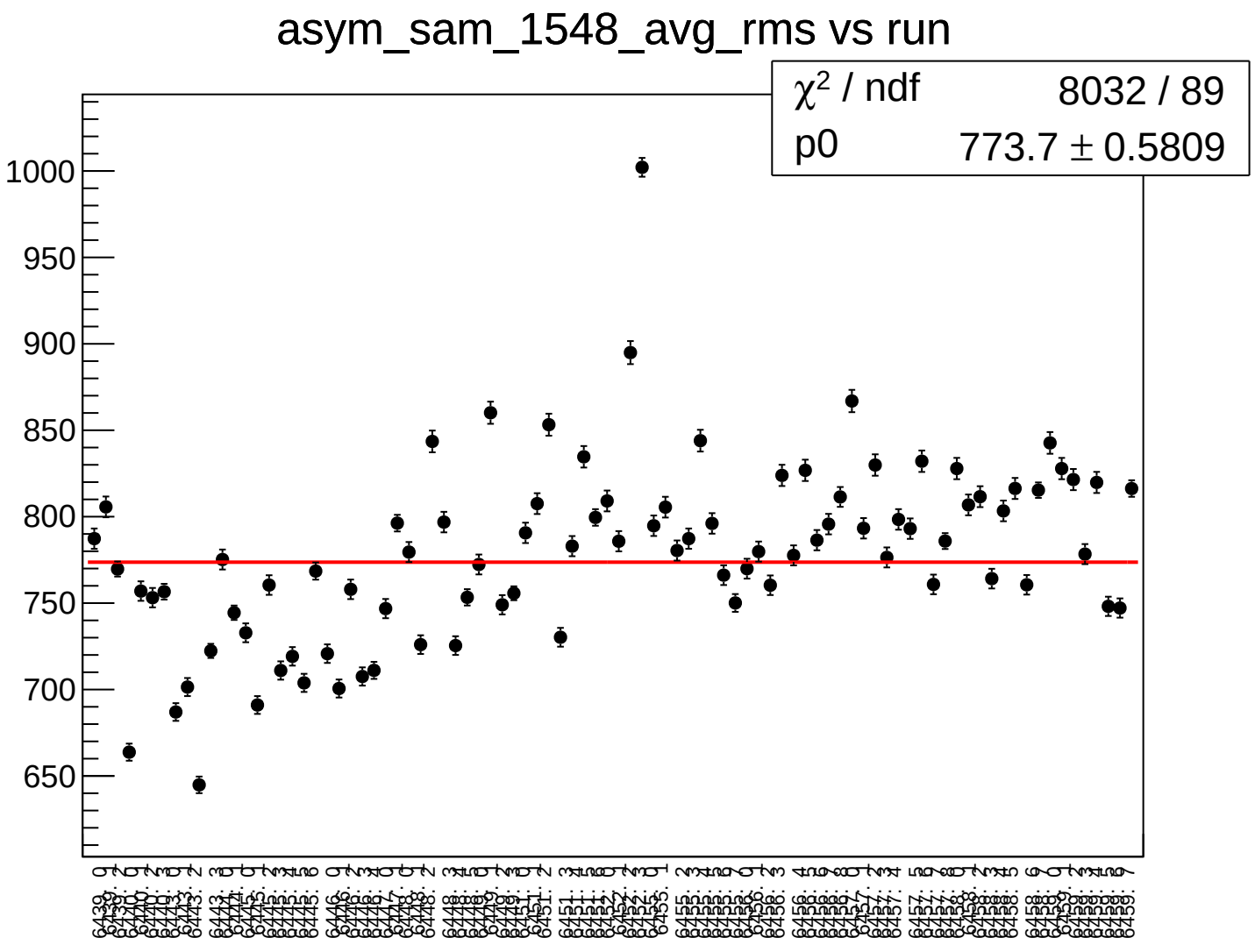

eigen_dit_asym_sam_1548_avg_rms vs run
χ² / ndf 2.525e+04 / 89
p0 89.05 ± 0.06719
300
250
200
150
100

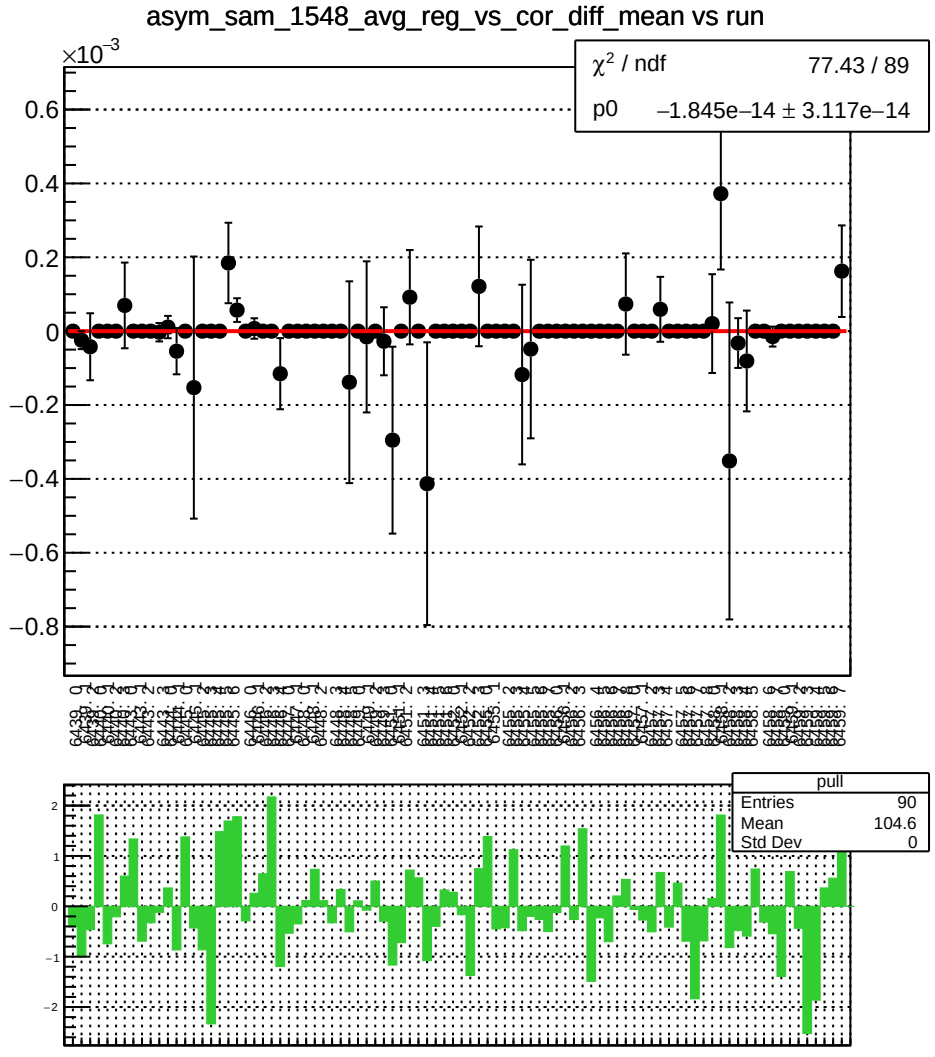

asym_sam_1548_avg_eigen_dit_correction_mean vs run
χ² / ndf 81.48 / 89
p0 −1921 ± 818.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean 1341
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 90
Mean 0.00313
Std Dev 0.9515
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

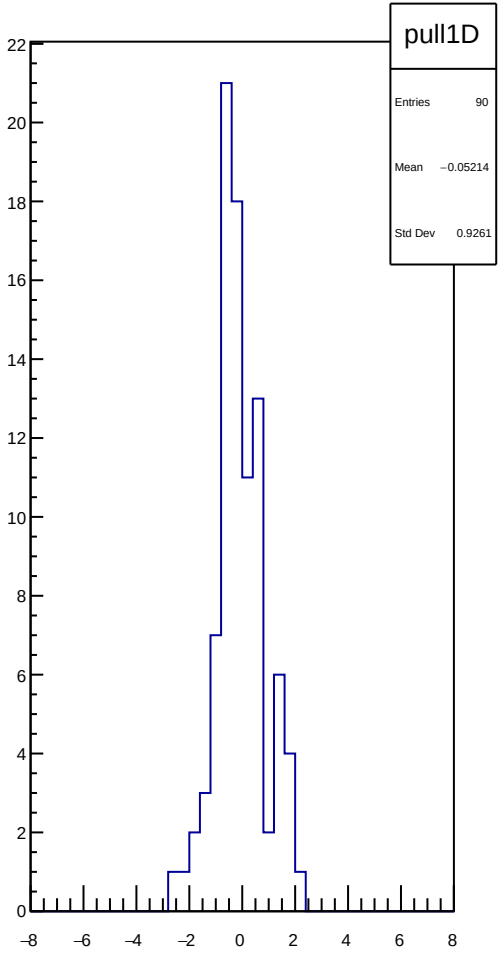

asym_sam_1548_avg_eigen_dit_correction_rms vs run
χ² / ndf 6065 / 89
p0 771 ± 0.5785
900
850
800
750
700
650

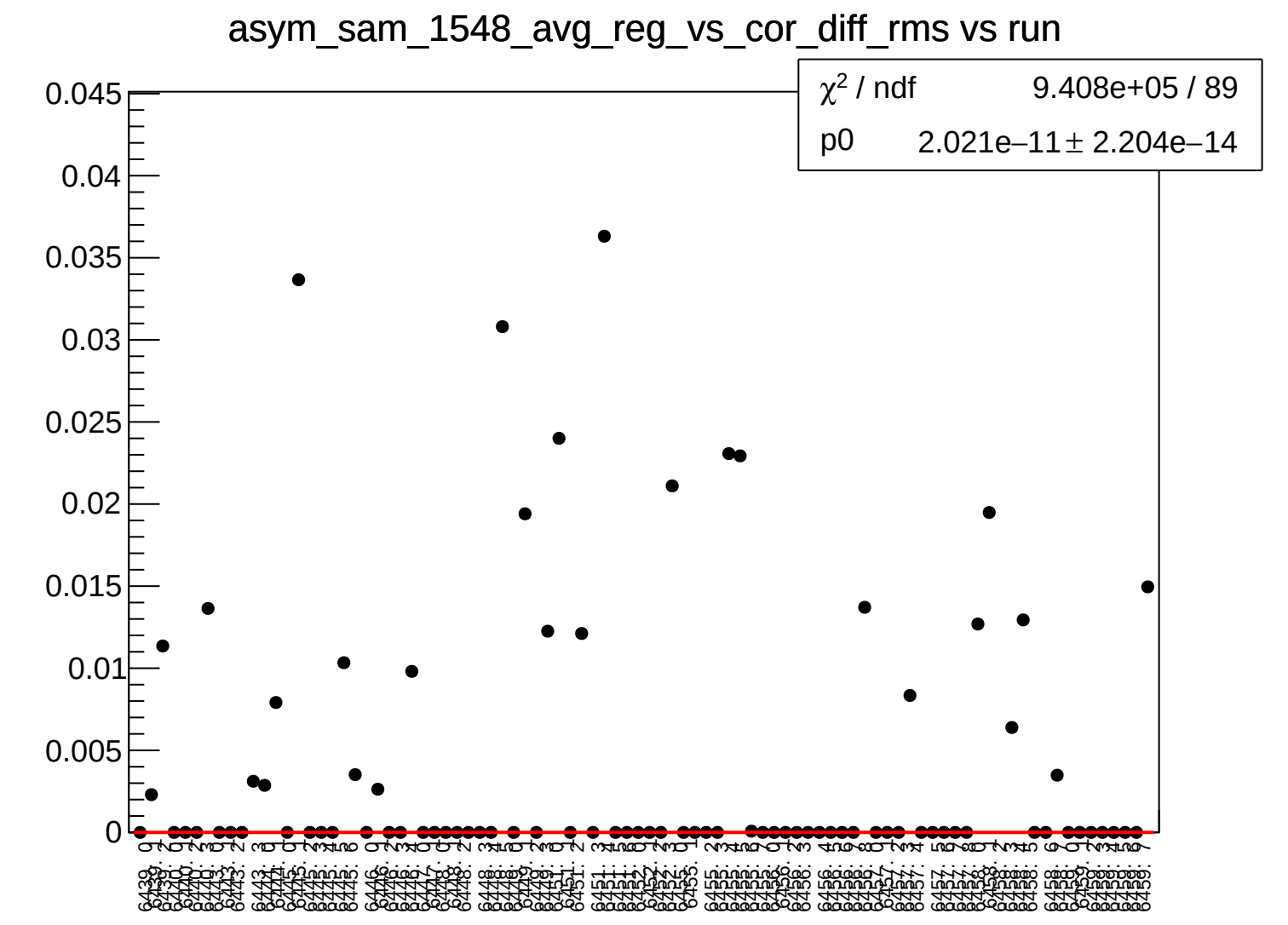

asym_sam_1548_avg_mean vs run
χ² / ndf 82.7 / 89
p0 1917 ± 821.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean 2859
Std Dev 0
2
1
0
−1
−2

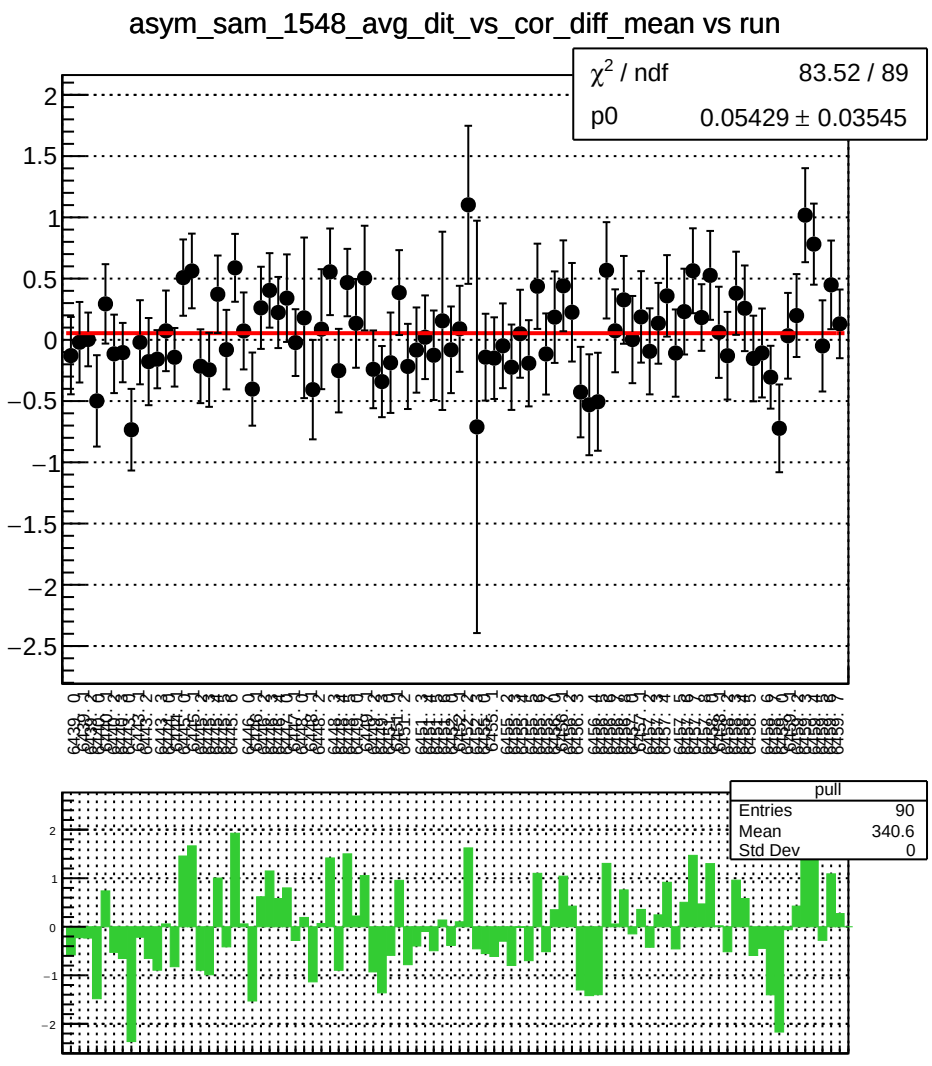

pull1D
Entries 90
Mean −0.001461
Std Dev 0.9586
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

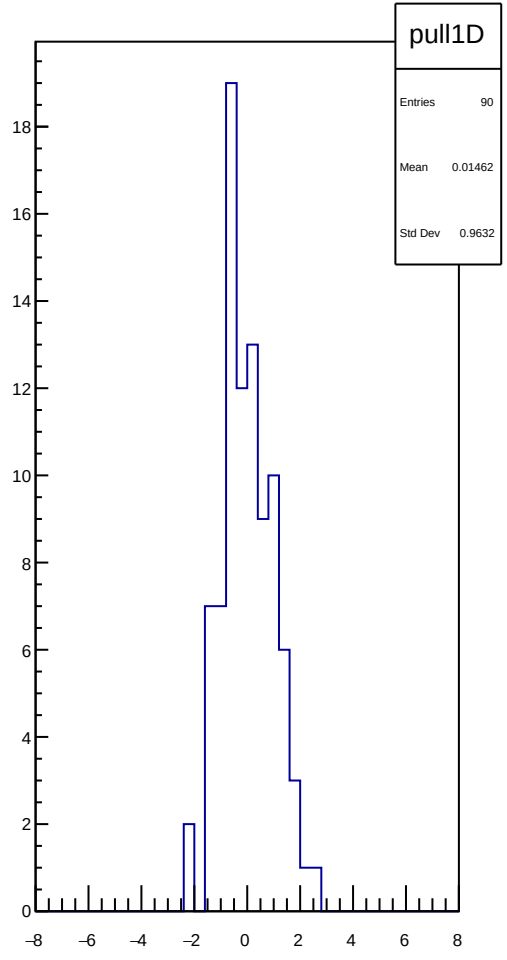

asym_sam_1548_avg_rms vs run
χ² / ndf 8032 / 89
p0 773.7 ± 0.5809
1000
950
900
850
800
750
700
650

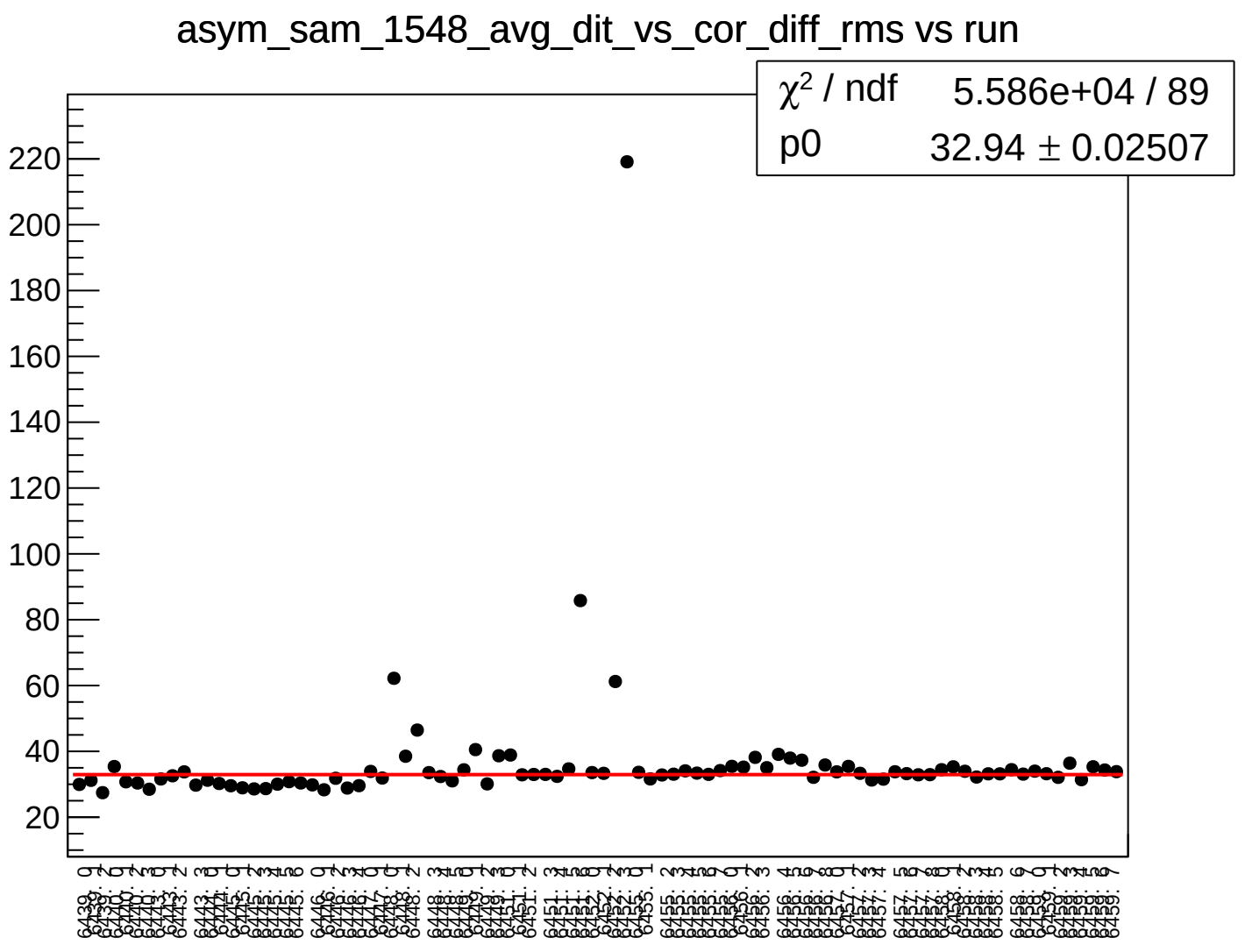

asym_sam_1548_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 77.43 / 89
p0 −1.845e−14 ± 3.117e−14
pull
Entries 90
Mean 104.6
Std Dev 0

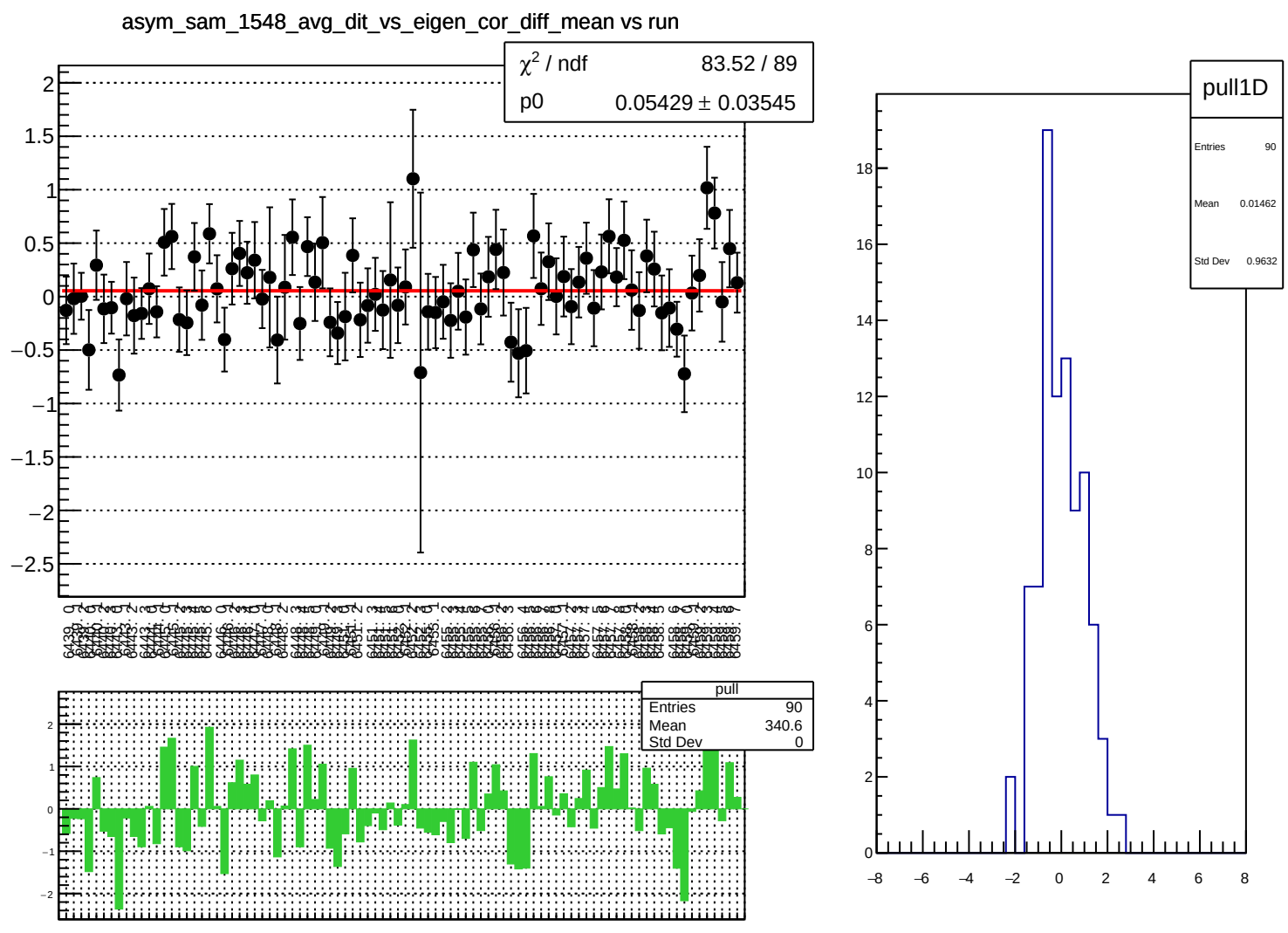

pull1D
Entries 90
Mean −0.05214
Std Dev 0.9261

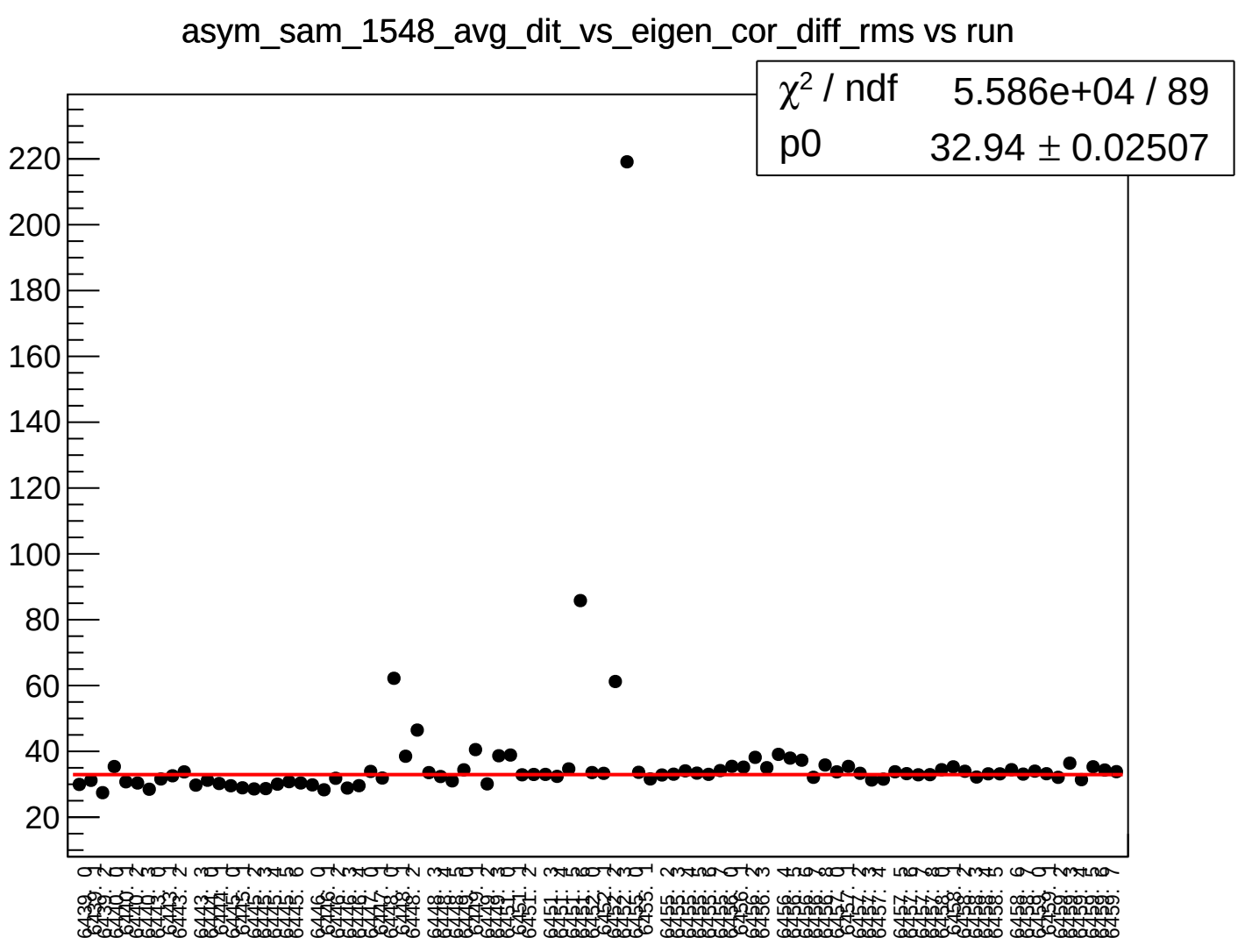

asym_sam_1548_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.408e+05 / 89
p0 2.021e−11 ± 2.204e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

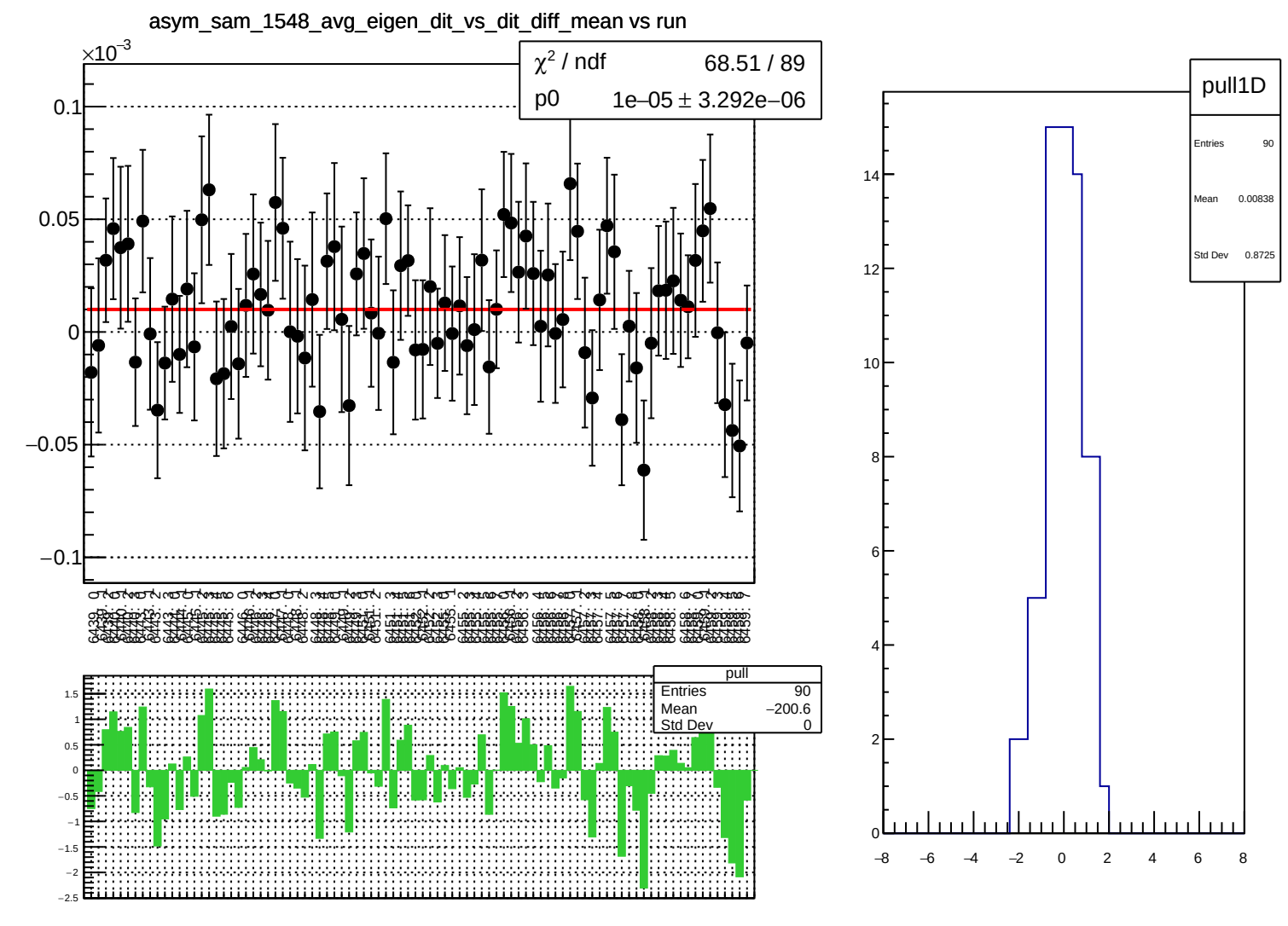

asym_sam_1548_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 83.52 / 89
p0 0.05429 ± 0.03545
pull
Entries 90
Mean 340.6
Std Dev 0

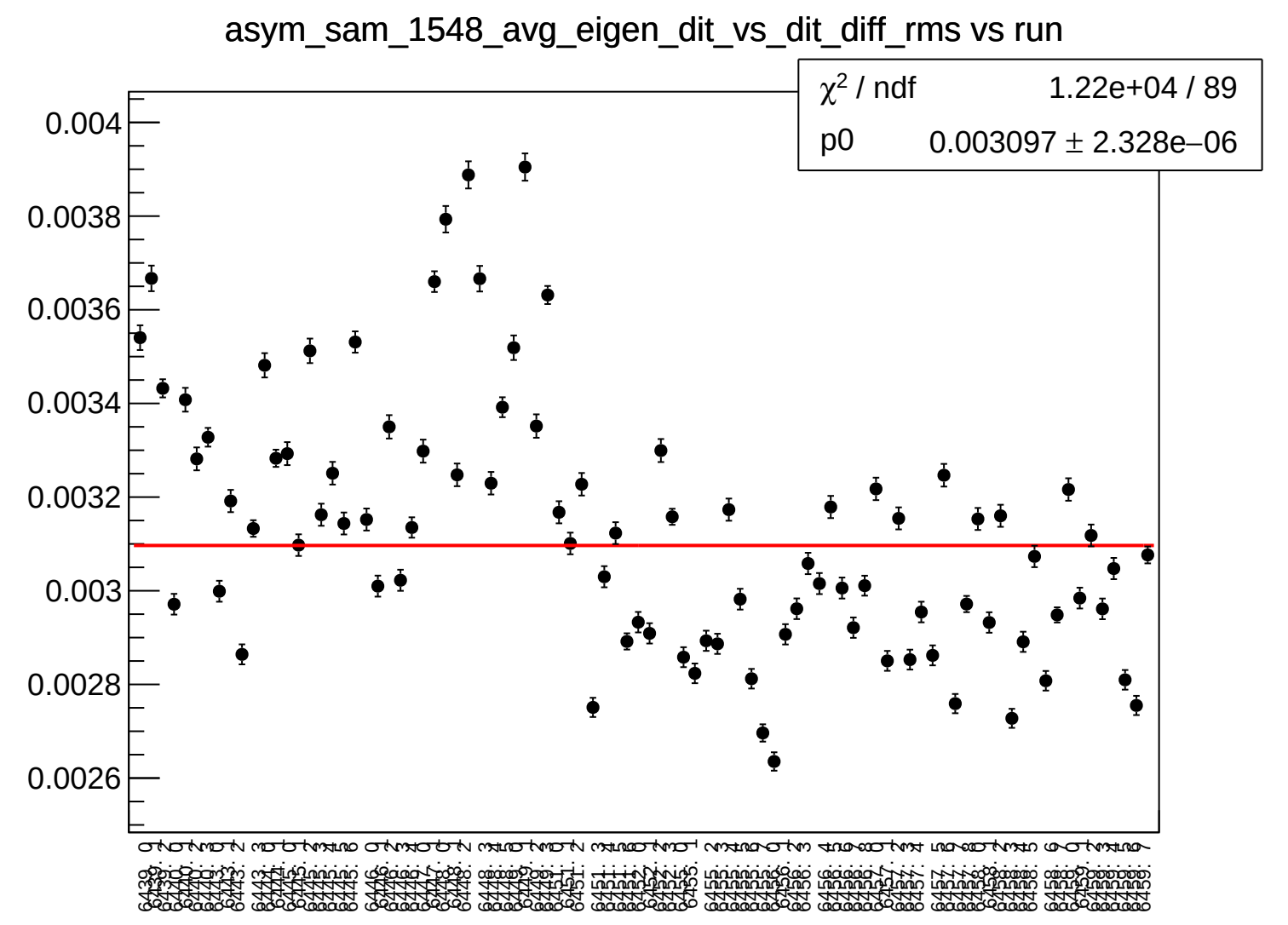

pull1D
Entries 90
Mean 0.01462
Std Dev 0.9632

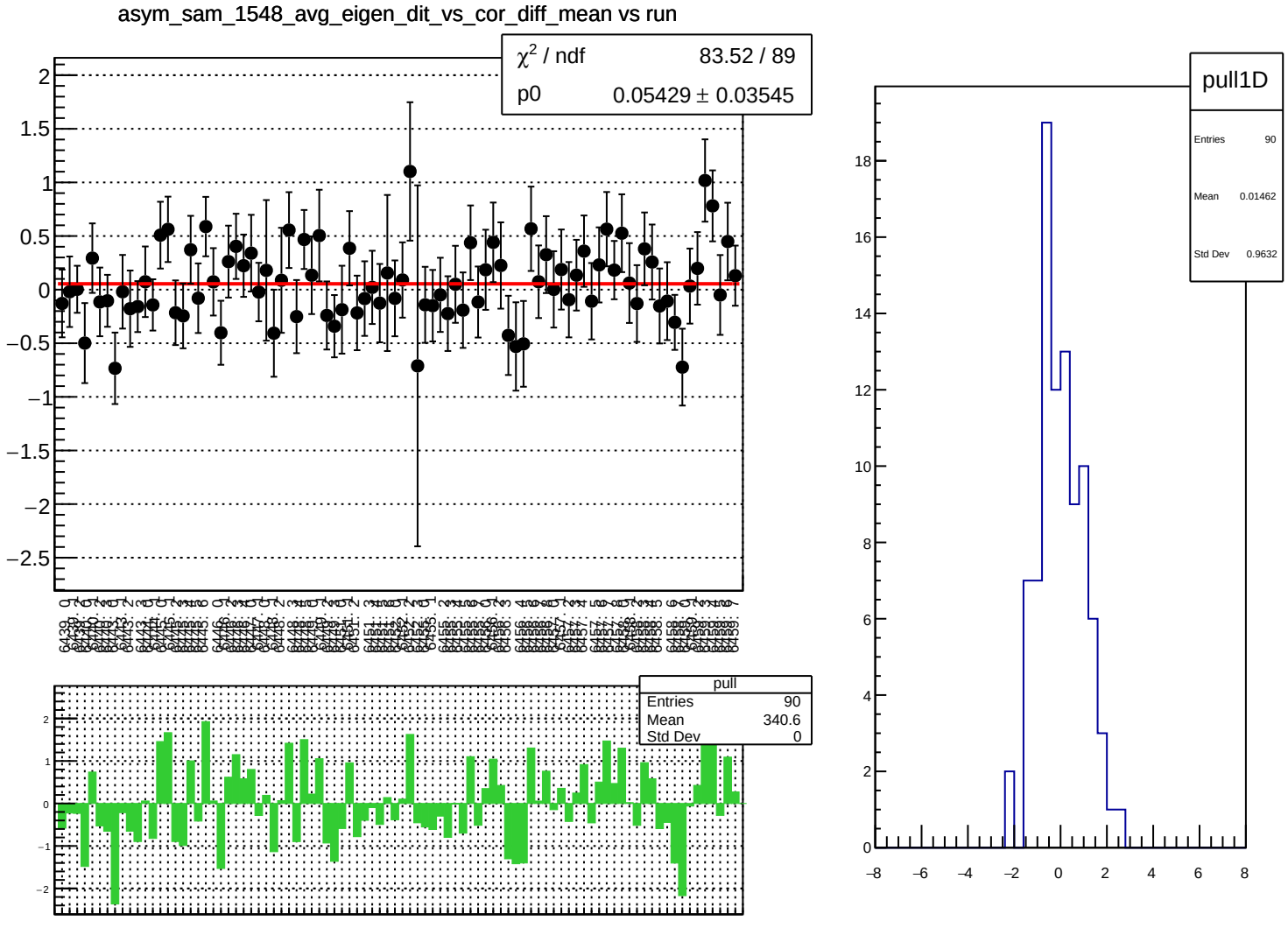

asym_sam_1548_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.586e+04 / 89
p0 32.94 ± 0.02507
220
200
180
160
140
120
100
80
60
40
20

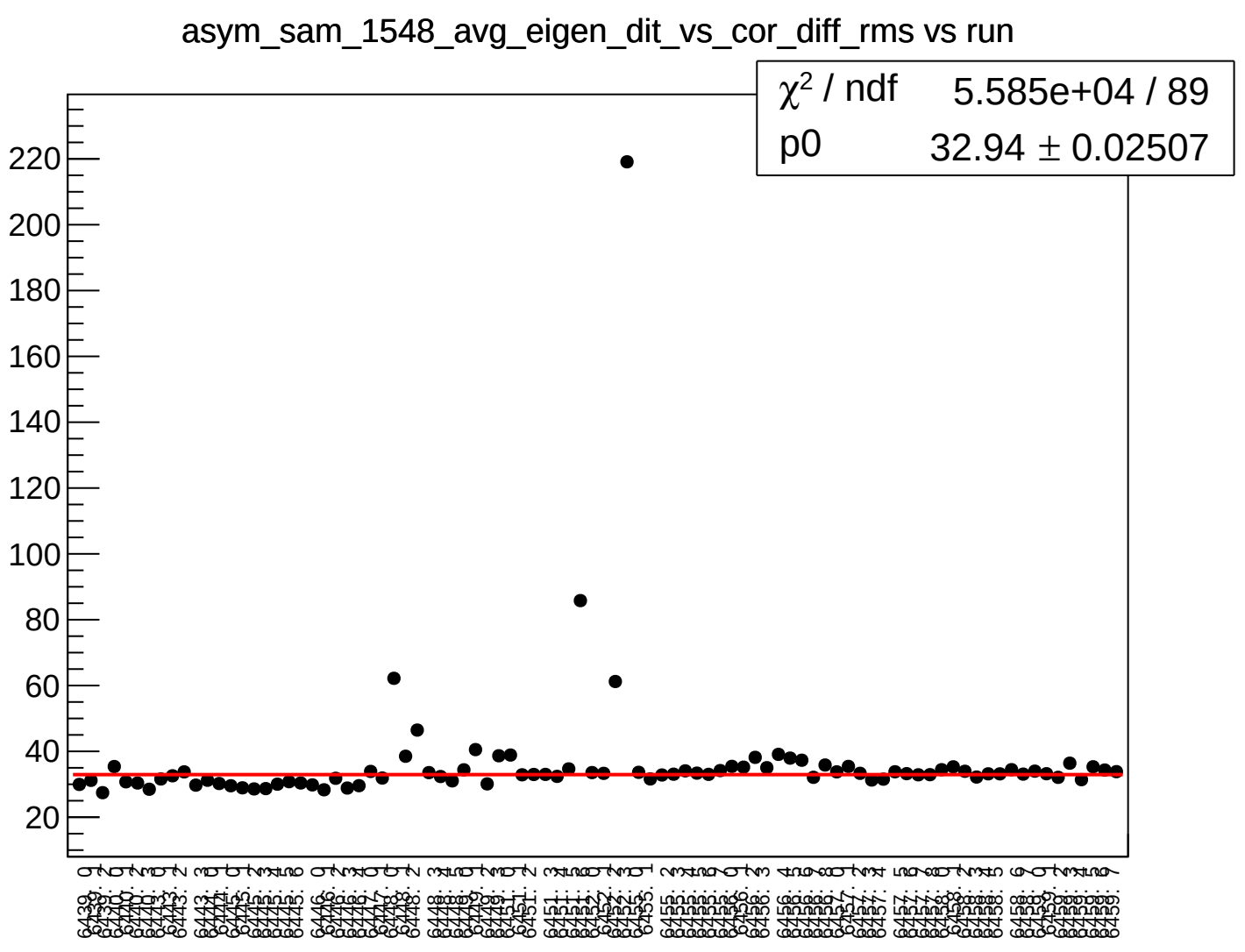

asym_sam_1548_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.52 / 89
p0 0.05429 ± 0.03545
pull
Entries 90
Mean 340.6
Std Dev 0
pull1D
Entries 90
Mean 0.01462
Std Dev 0.9632

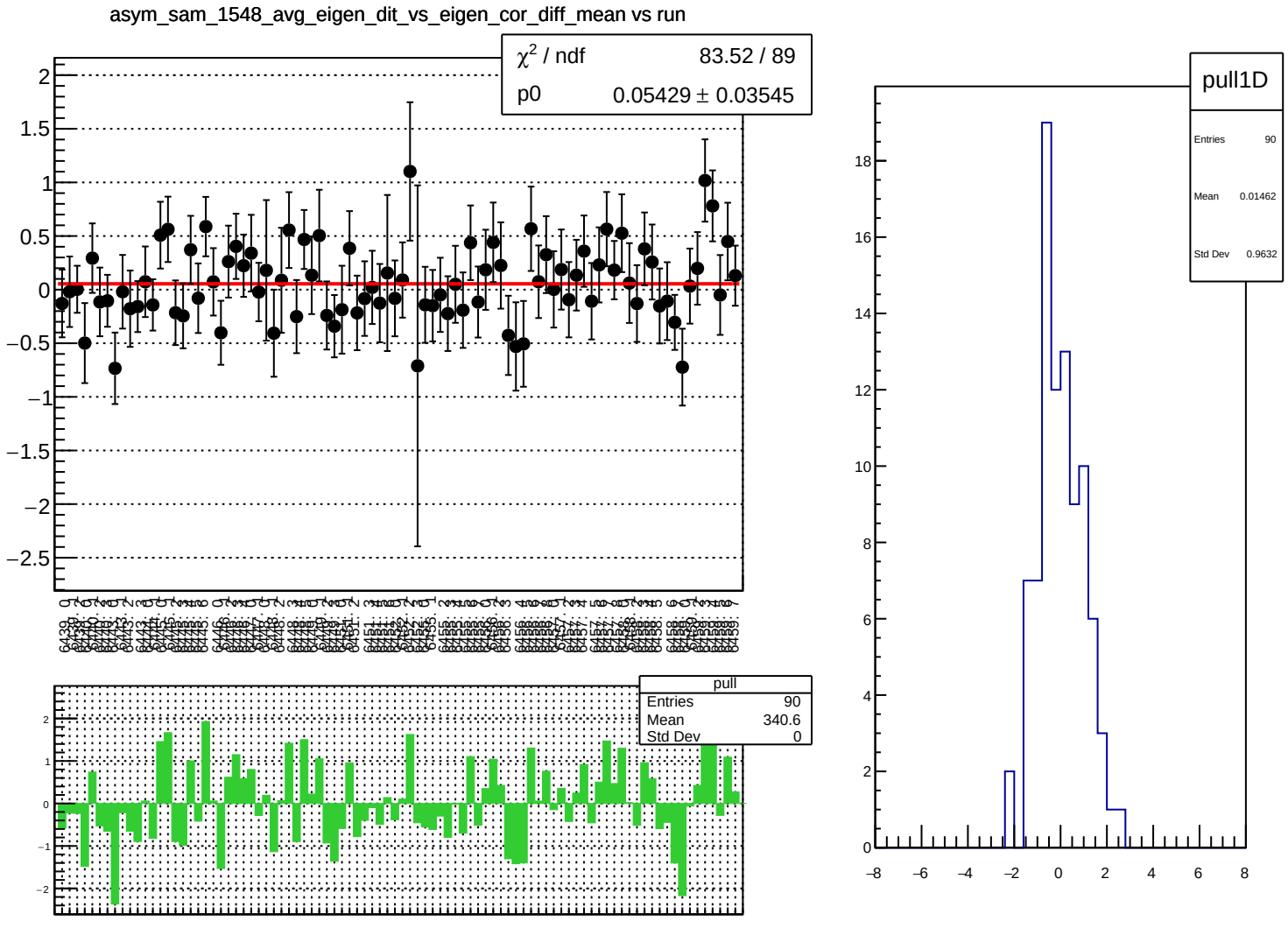

asym_sam_1548_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.586e+04 / 89
p0 32.94 ± 0.02507
220
200
180
160
140
120
100
80
60
40
20

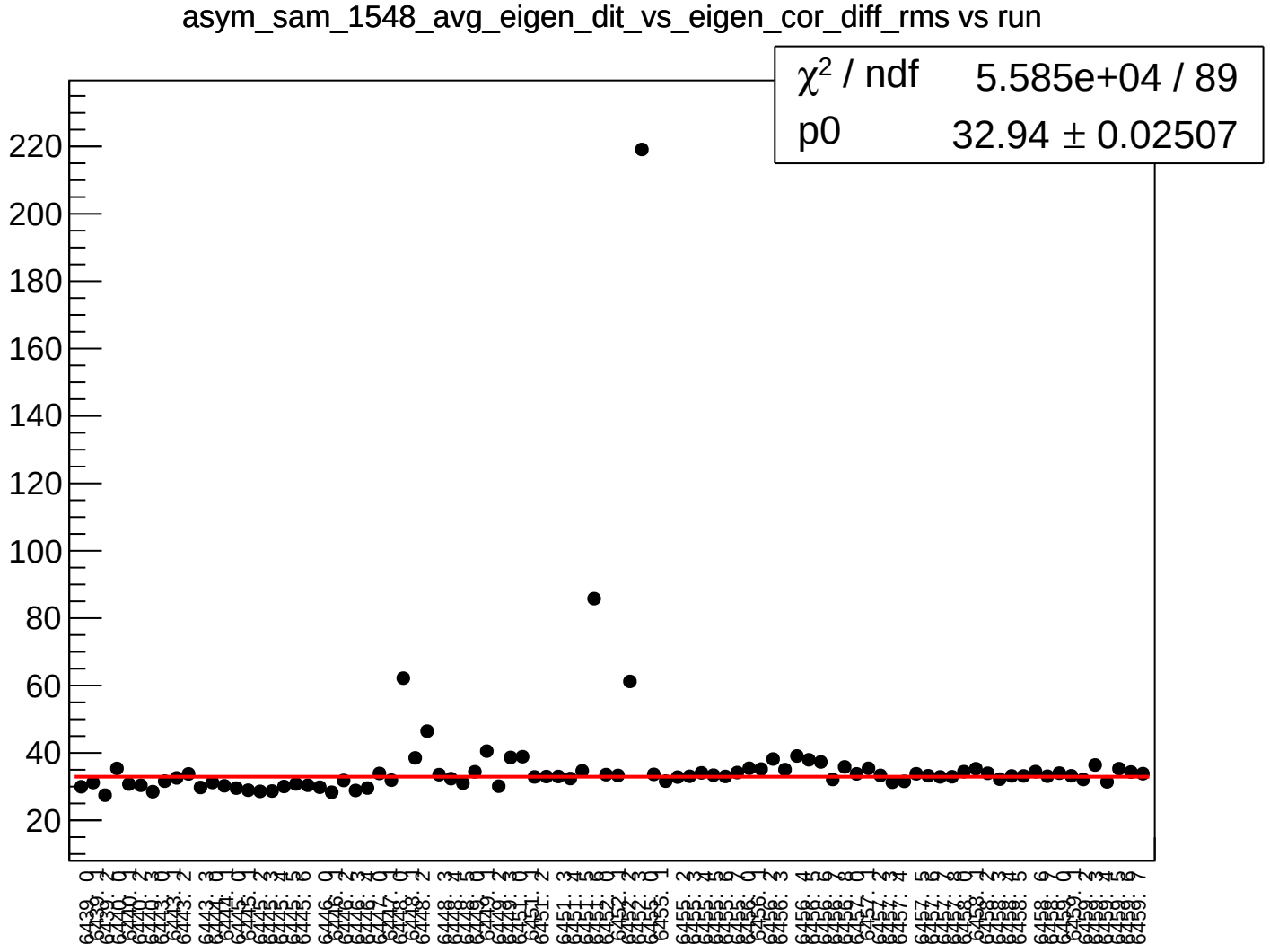

asym_sam_1548_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 68.51 / 89
p0 1e−05 ± 3.292e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 90
Mean −200.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 90
Mean 0.00838
Std Dev 0.8725
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

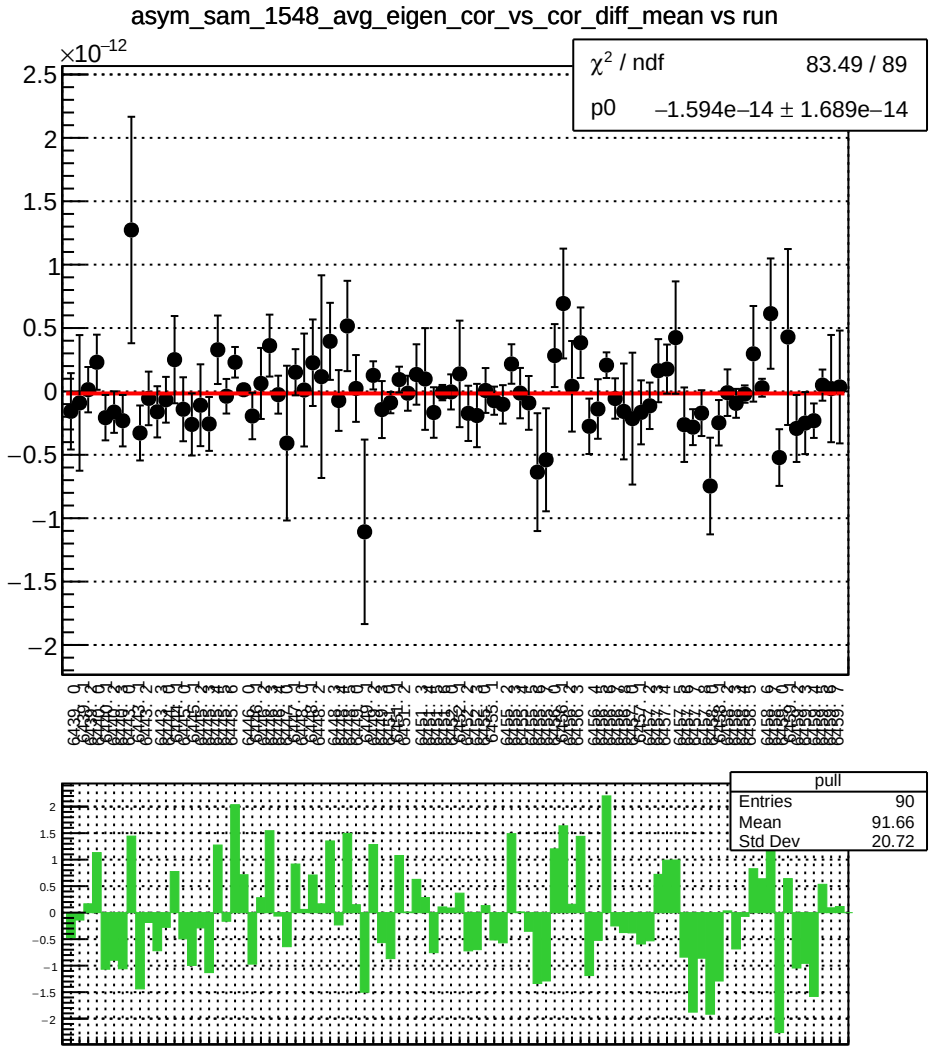

asym_sam_1548_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.22e+04 / 89
p0 0.003097 ± 2.328e−06
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026

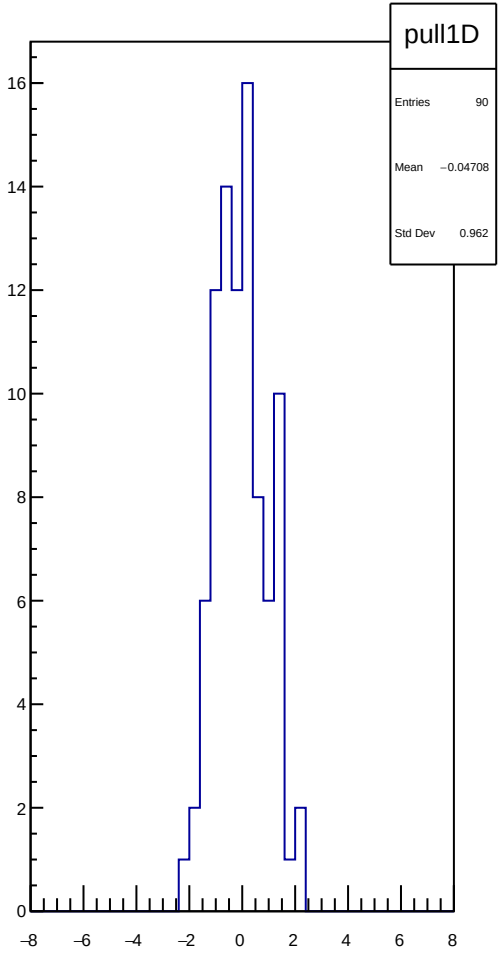

asym_sam_1548_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.52 / 89
p0 0.05429 ± 0.03545
pull
Entries 90
Mean 340.6
Std Dev 0
pull1D
Entries 90
Mean 0.01462
Std Dev 0.9632

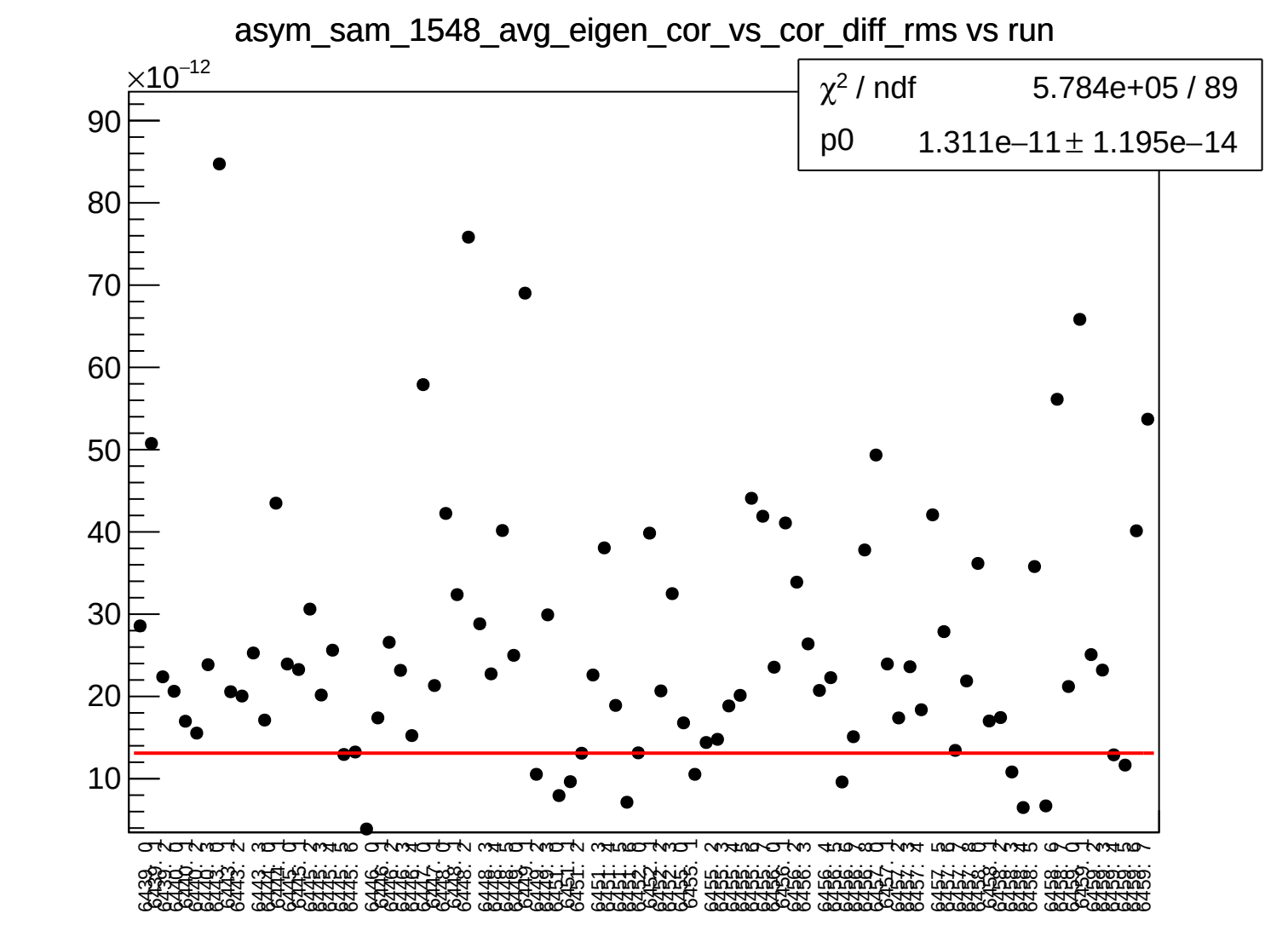

asym_sam_1548_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.585e+04 / 89
p0 32.94 ± 0.02507
220
200
180
160
140
120
100
80
60
40
20

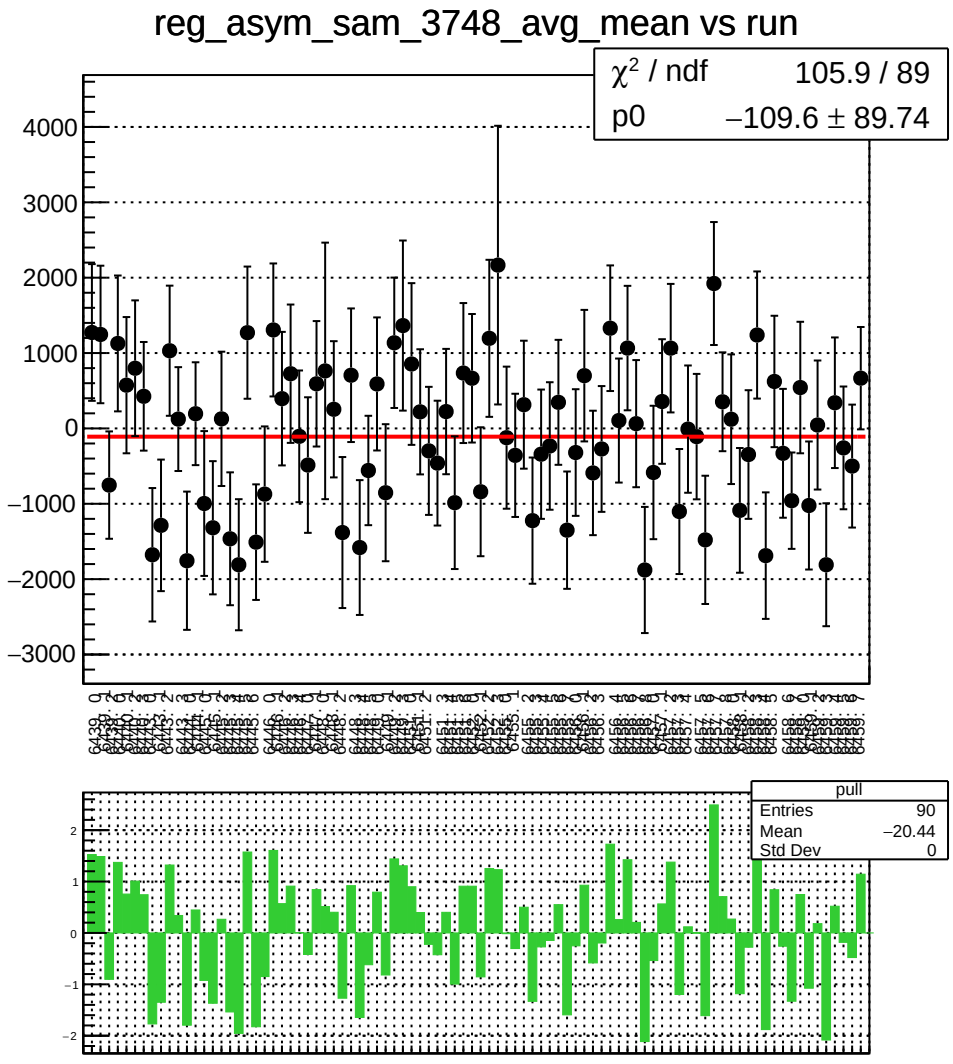

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.52 / 89
p0 0.05429 ± 0.03545
pull
Entries 90
Mean 340.6
Std Dev 0
pull1D
Entries 90
Mean 0.01462
Std Dev 0.9632

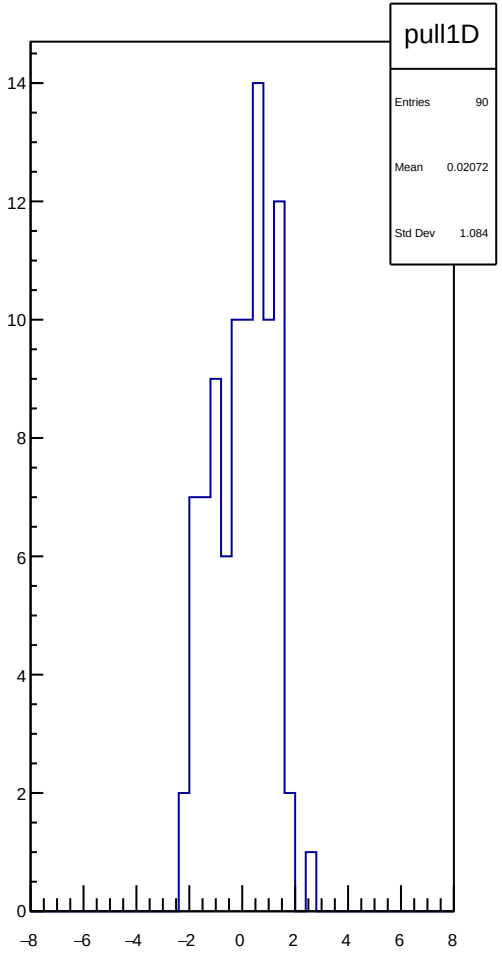

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.585e+04 / 89
p0 32.94 ± 0.02507
220
200
180
160
140
120
100
80
60
40
20

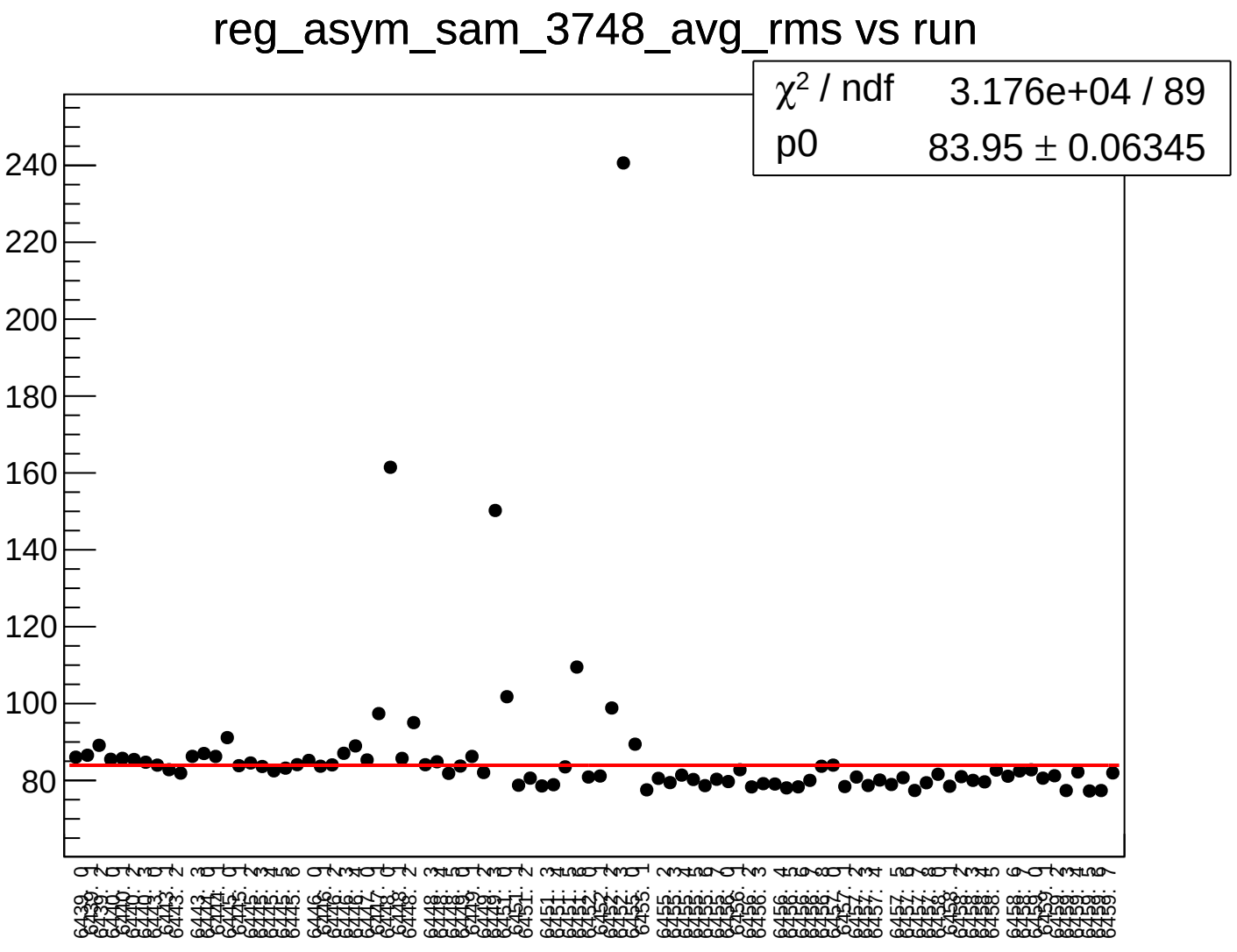

asym_sam_1548_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.49 / 89
p0 −1.594e−14 ± 1.689e−14
pull
Entries 90
Mean 91.66
Std Dev 20.72

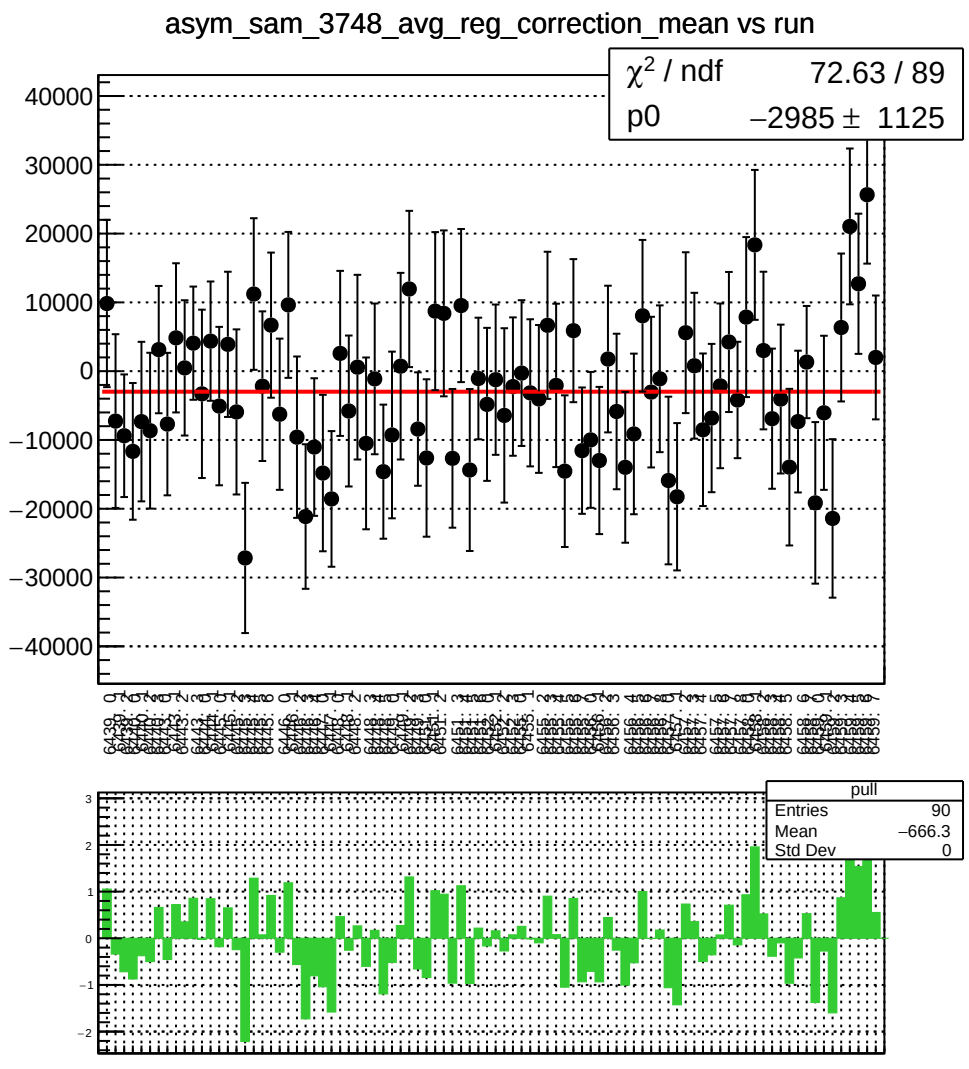

pull1D
Entries 90
Mean −0.04708
Std Dev 0.962

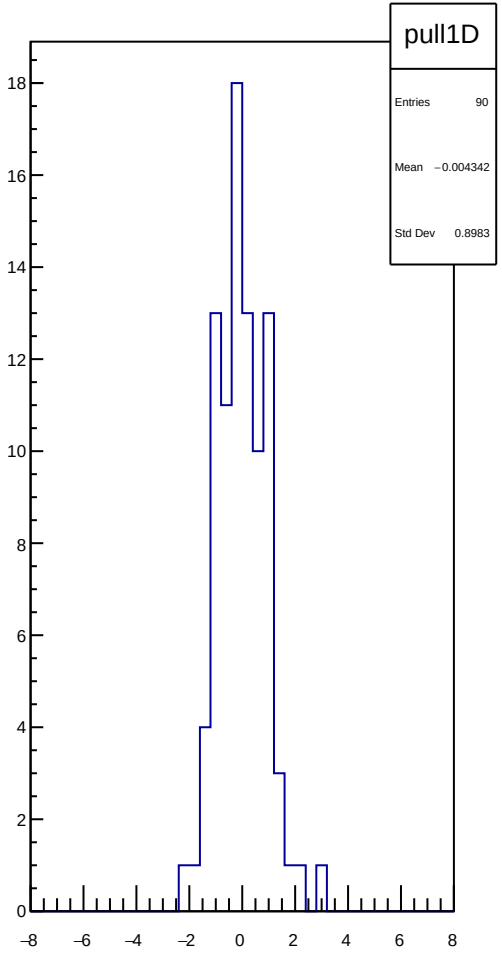

asym_sam_1548_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.784e+05 / 89
p0 1.311e−11 ± 1.195e−14
90
80
70
60
50
40
30
20
10

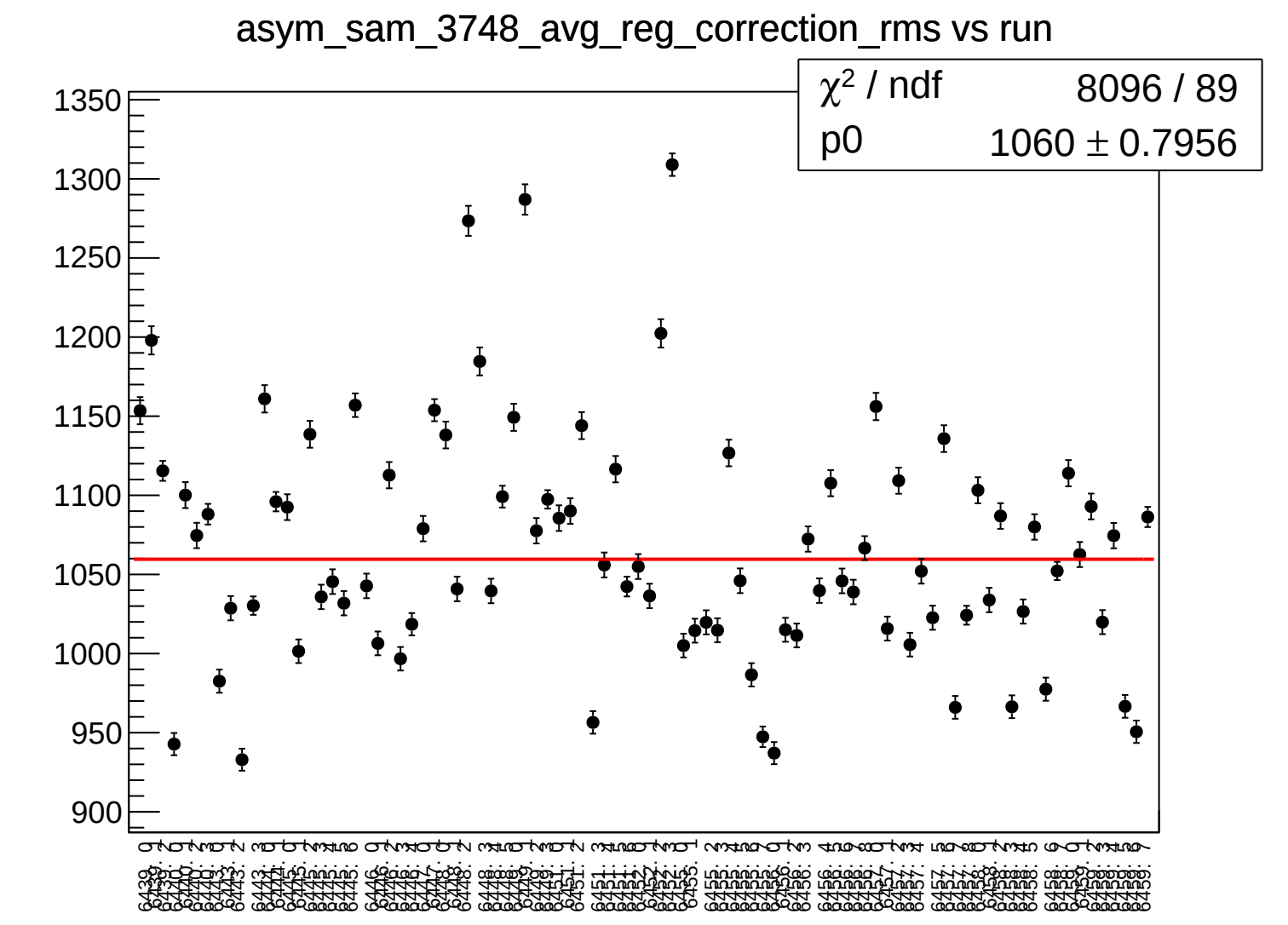

reg_asym_sam_3748_avg_mean vs run
χ² / ndf 105.9 / 89
p0 −109.6 ± 89.74
pull
Entries 90
Mean −20.44
Std Dev 0

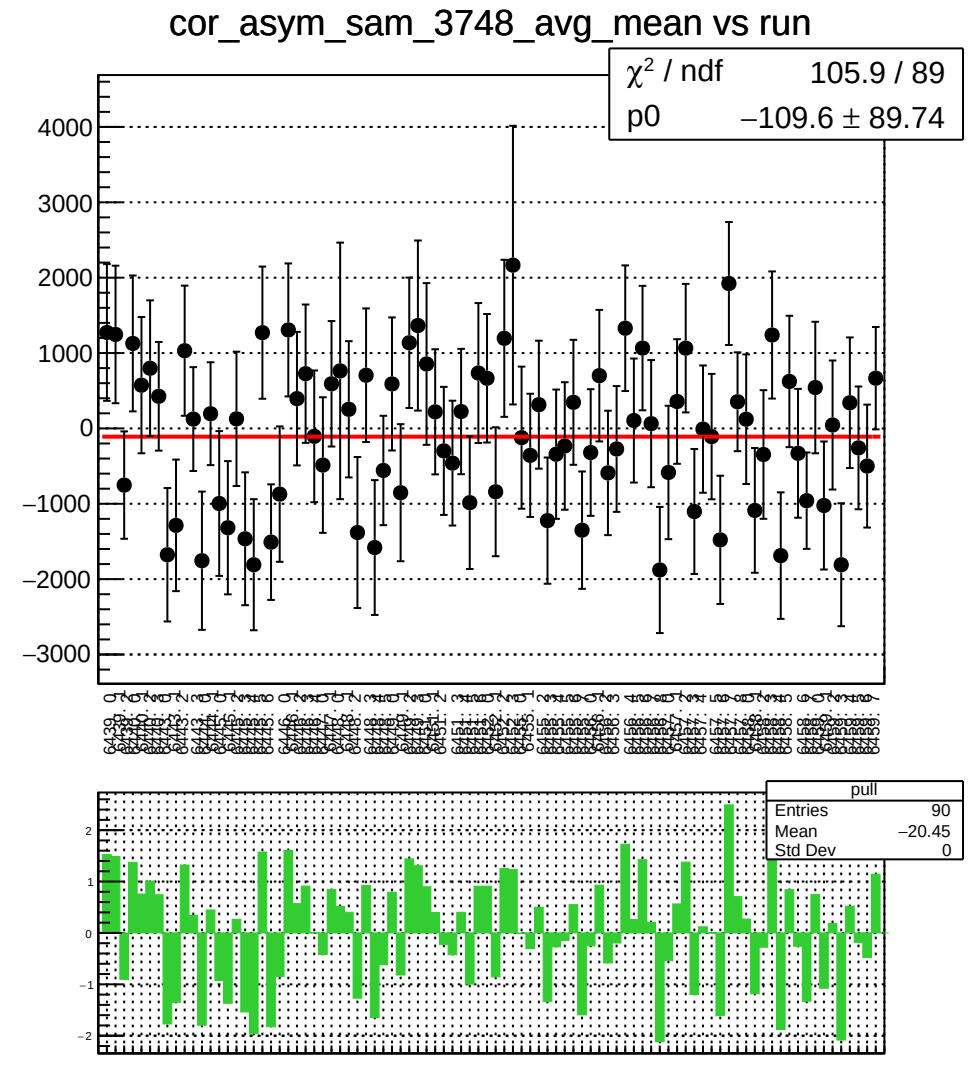

pull1D
Entries 90
Mean 0.02072
Std Dev 1.084

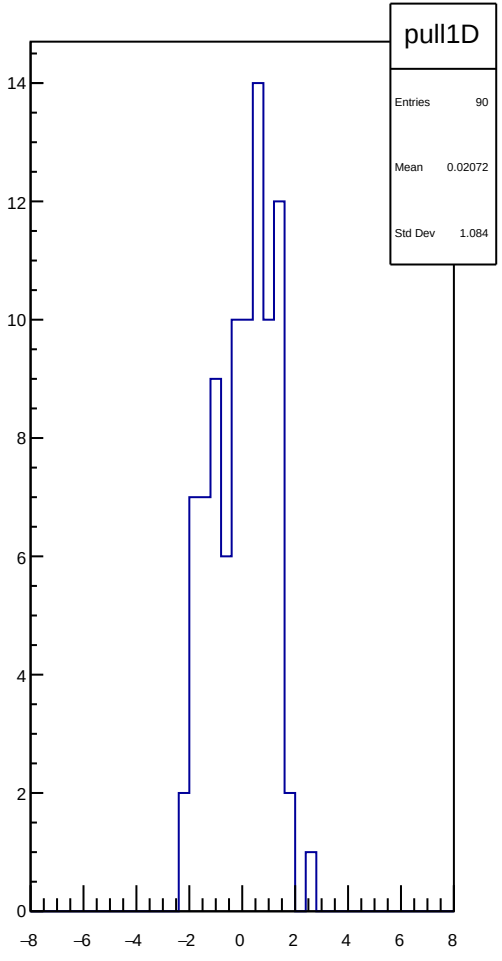

reg_asym_sam_3748_avg_rms vs run
χ² / ndf 3.176e+04 / 89
p0 83.95 ± 0.06345
240
220
200
180
160
140
120
100
80

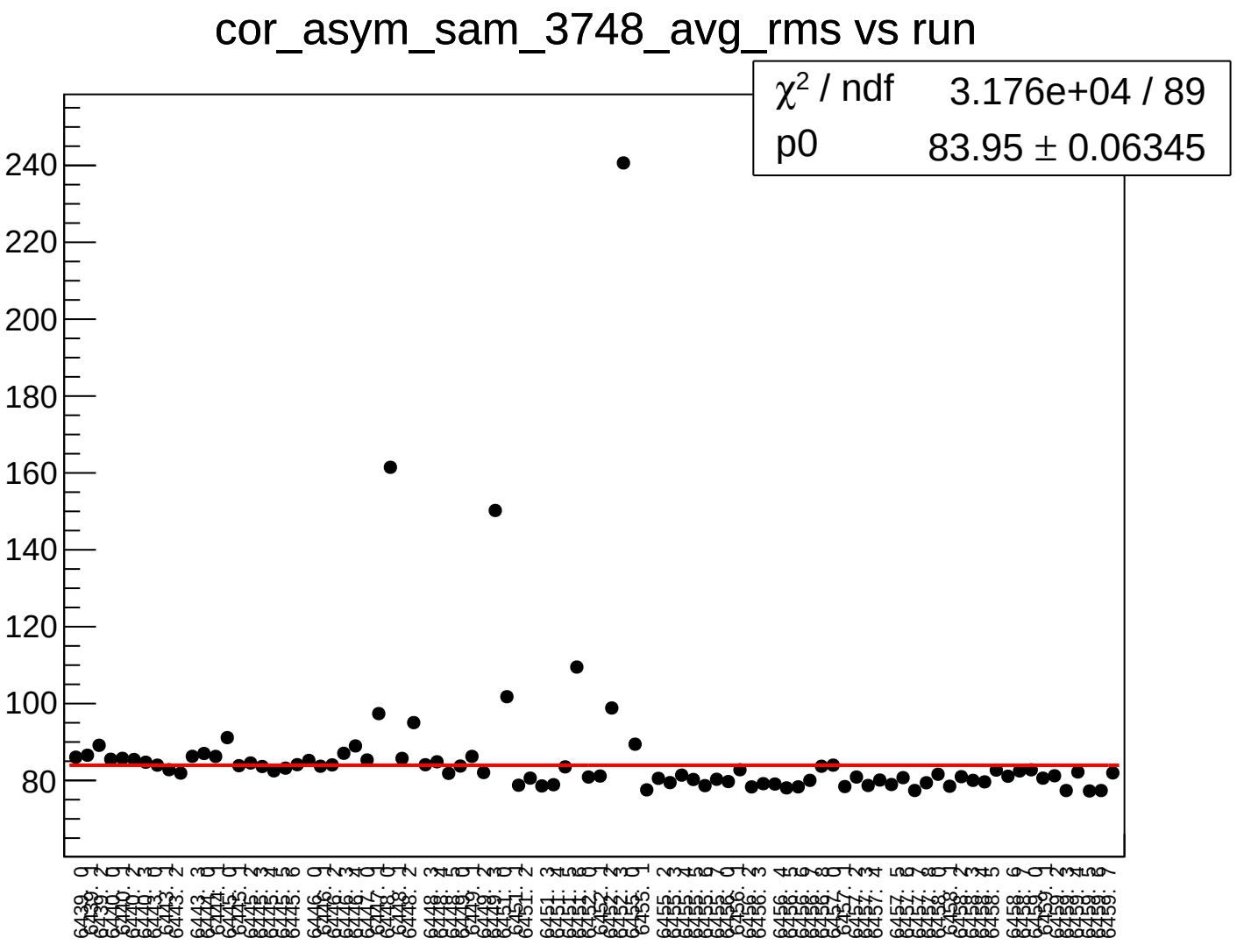

asym_sam_3748_avg_reg_correction_mean vs run
χ² / ndf 72.63 / 89
p0 −2985 ± 1125
pull
Entries 90
Mean −666.3
Std Dev 0

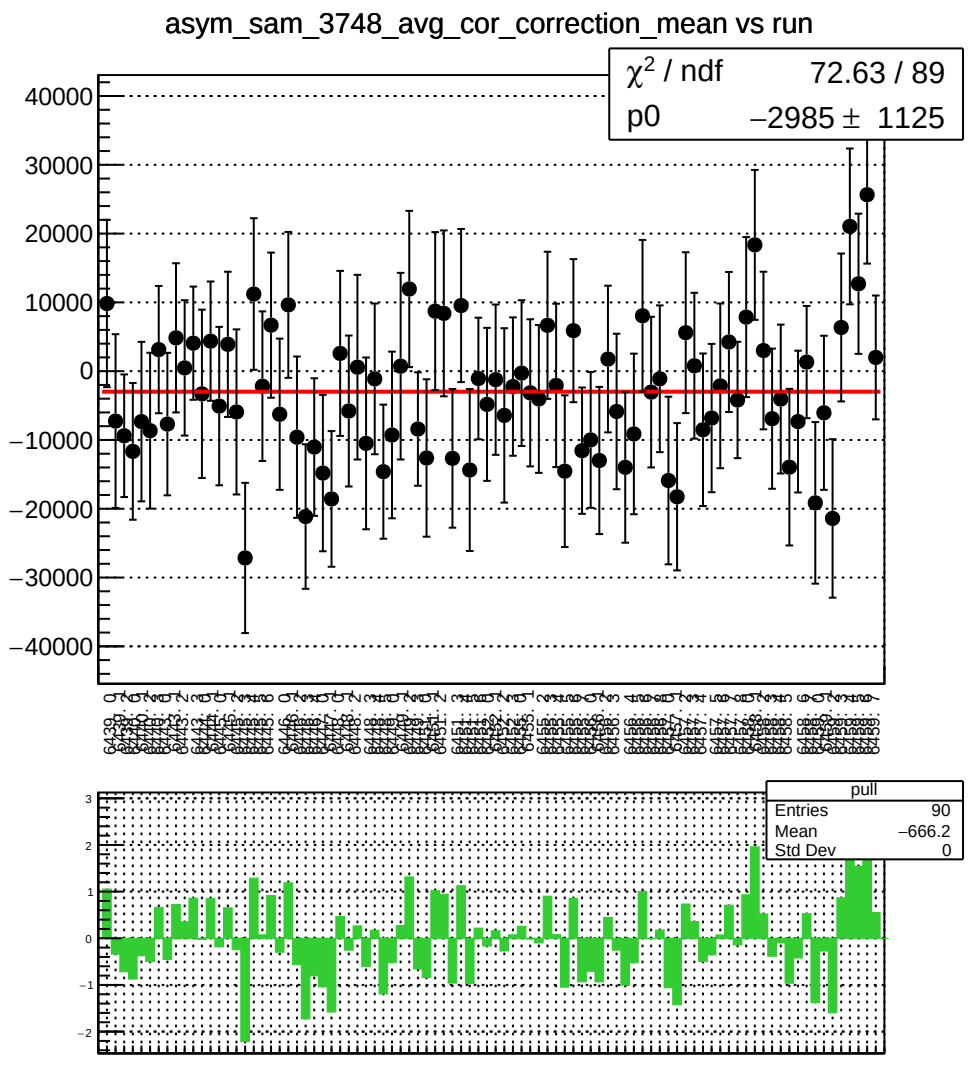

pull1D
Entries 90
Mean −0.004342
Std Dev 0.8983

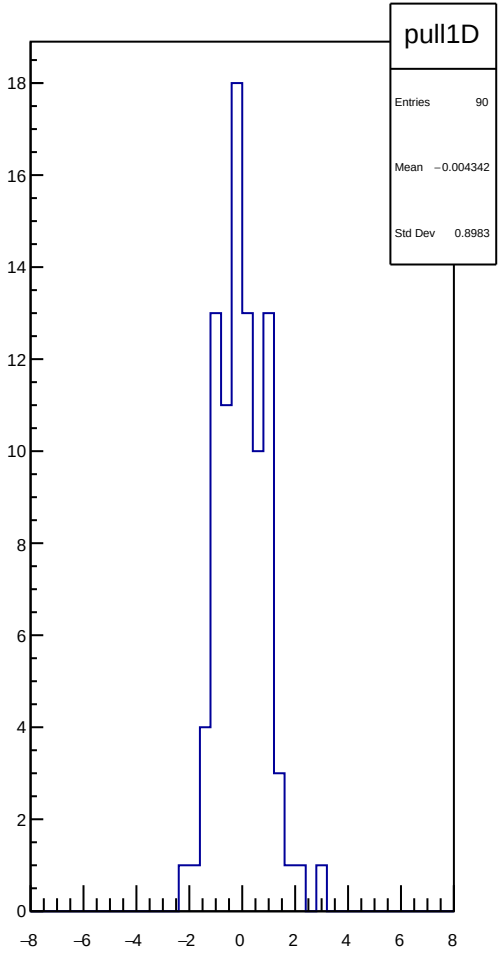

asym_sam_3748_avg_reg_correction_rms vs run
χ² / ndf 8096 / 89
p0 1060 ± 0.7956
1350
1300
1250
1200
1150
1100
1050
1000
950
900

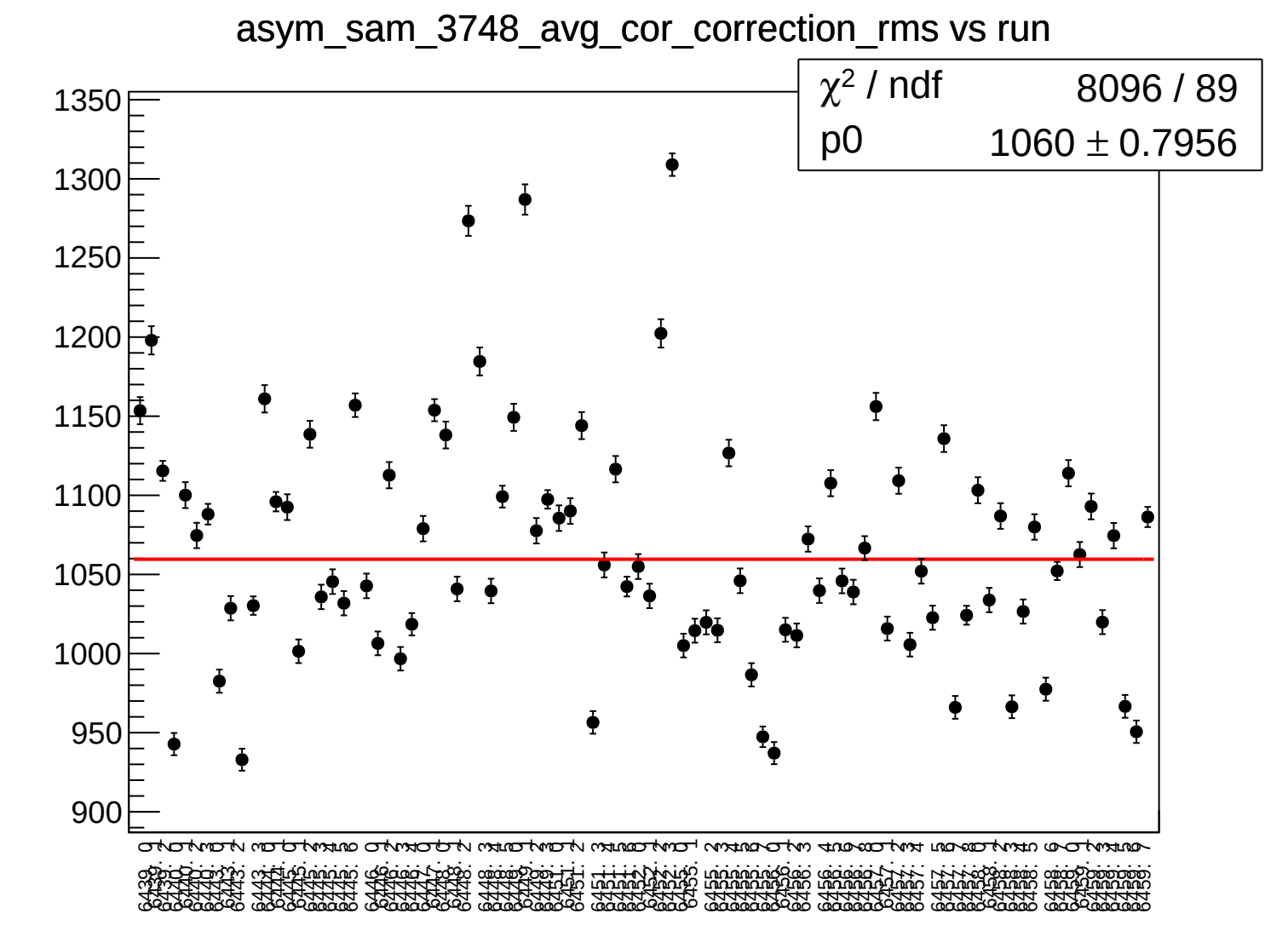

cor_asym_sam_3748_avg_mean vs run
χ² / ndf 105.9 / 89
p0 −109.6 ± 89.74
pull
Entries 90
Mean −20.45
Std Dev 0

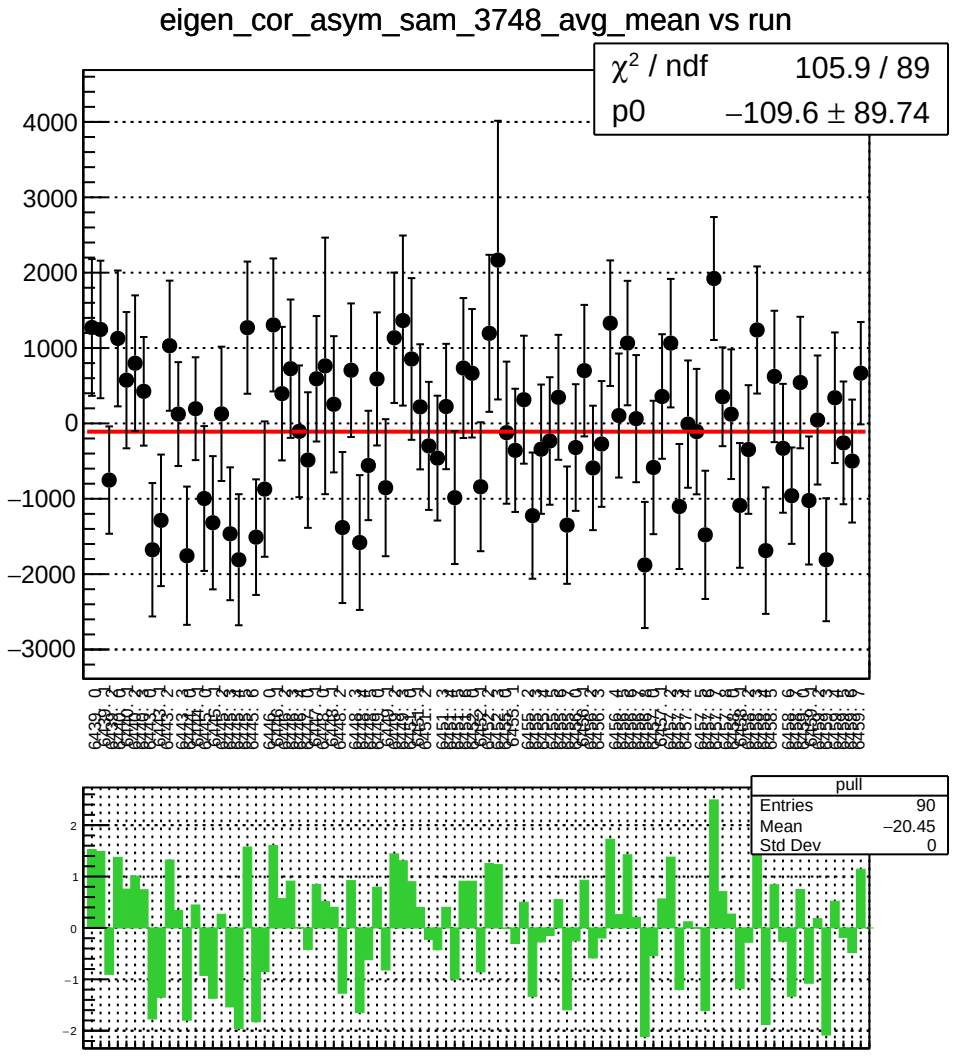

pull1D
Entries 90
Mean 0.02072
Std Dev 1.084

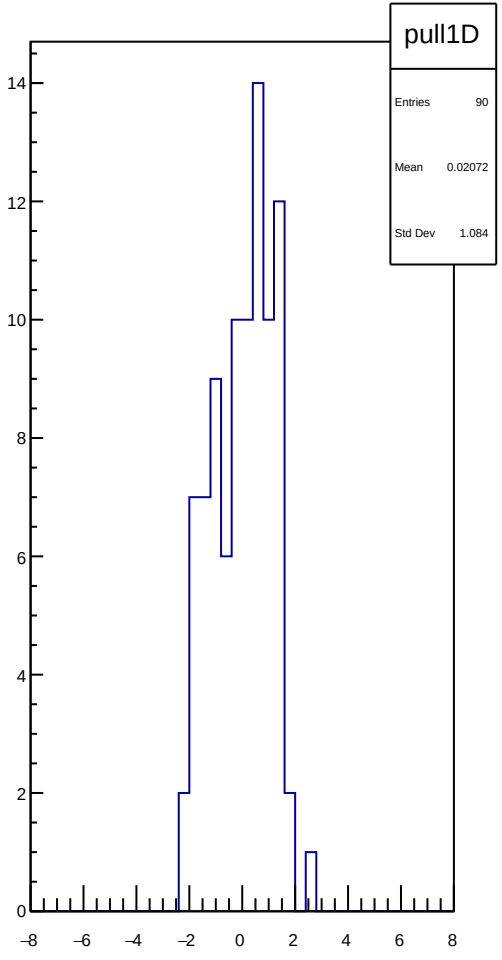

cor_asym_sam_3748_avg_rms vs run
χ² / ndf 3.176e+04 / 89
p0 83.95 ± 0.06345
240
220
200
180
160
140
120
100
80

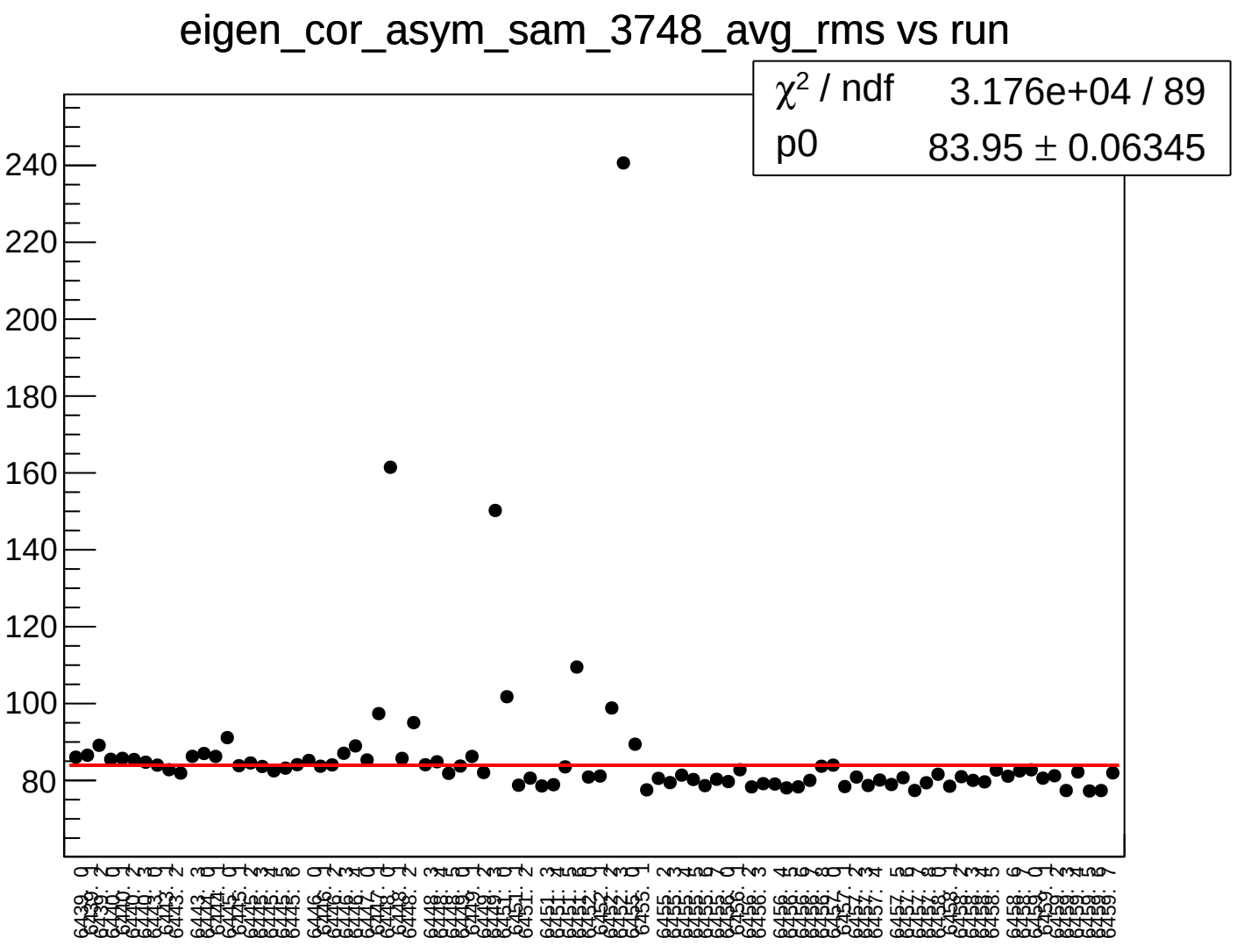

asym_sam_3748_avg_cor_correction_mean vs run
χ² / ndf 72.63 / 89
p0 −2985 ± 1125
pull
Entries 90
Mean −666.2
Std Dev 0

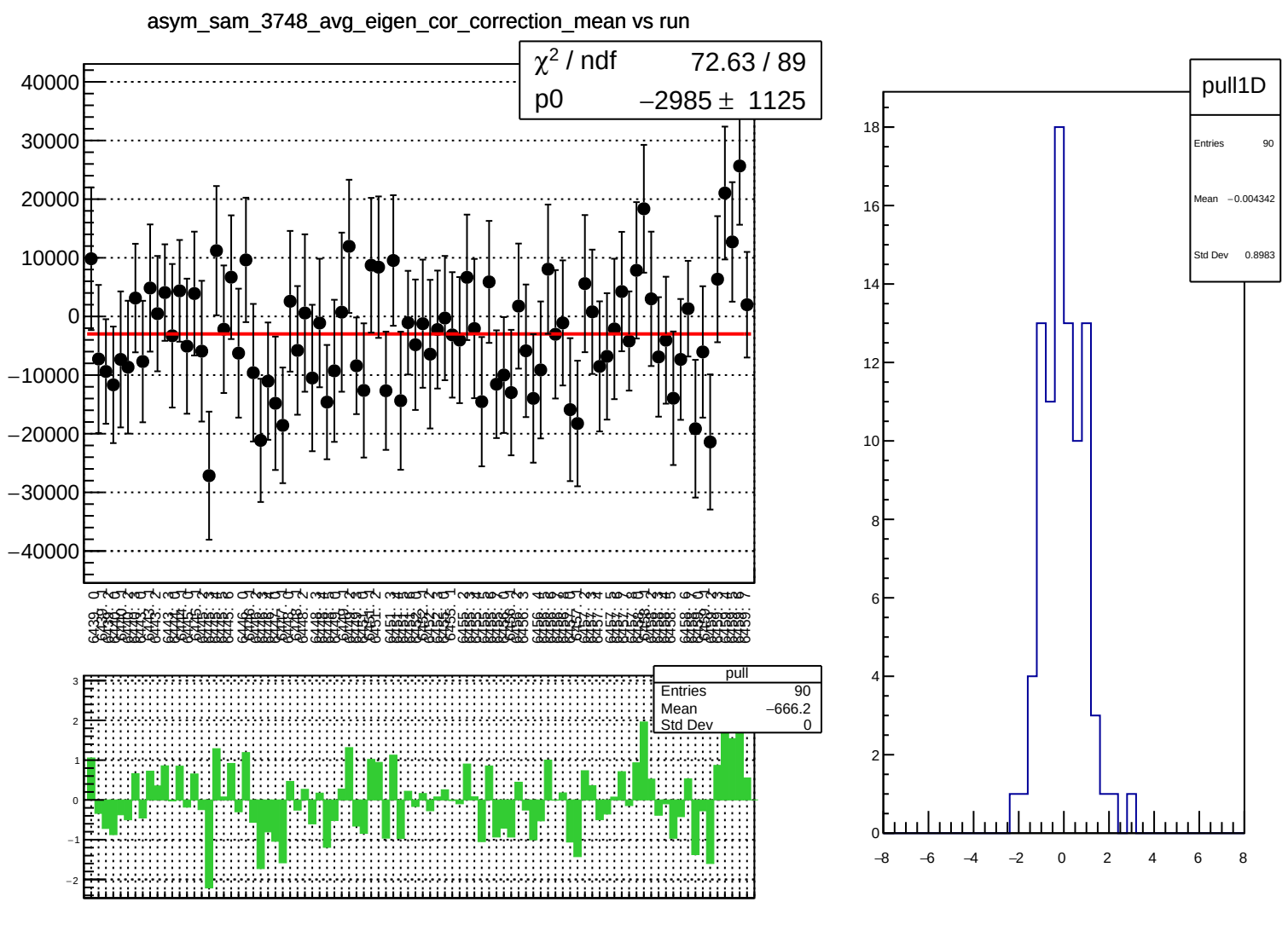

pull1D
Entries 90
Mean −0.004342
Std Dev 0.8983

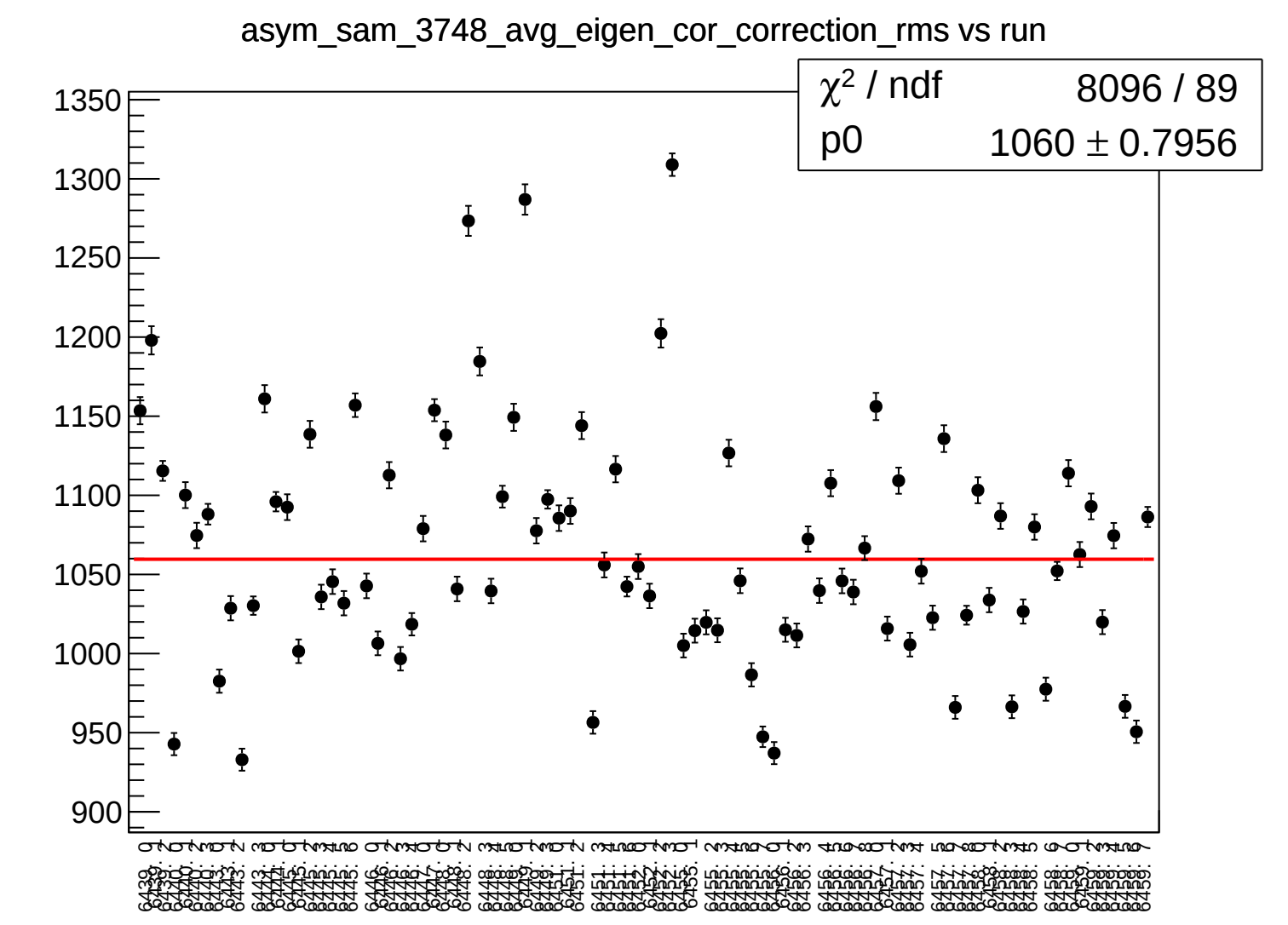

asym_sam_3748_avg_cor_correction_rms vs run
χ² / ndf 8096 / 89
p0 1060 ± 0.7956
1350
1300
1250
1200
1150
1100
1050
1000
950
900

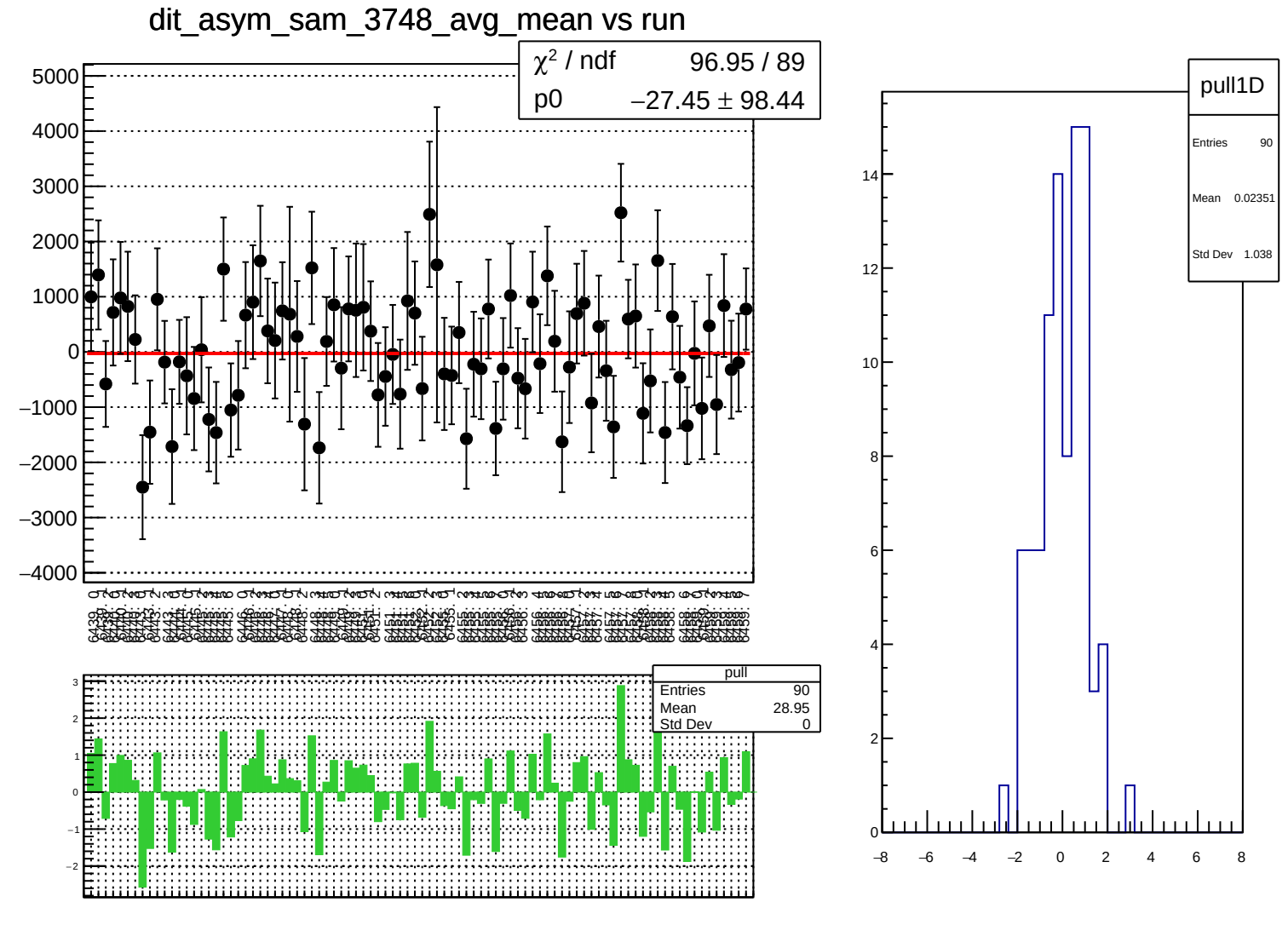

eigen_cor_asym_sam_3748_avg_mean vs run
χ² / ndf 105.9 / 89
p0 −109.6 ± 89.74
pull
Entries 90
Mean −20.45
Std Dev 0

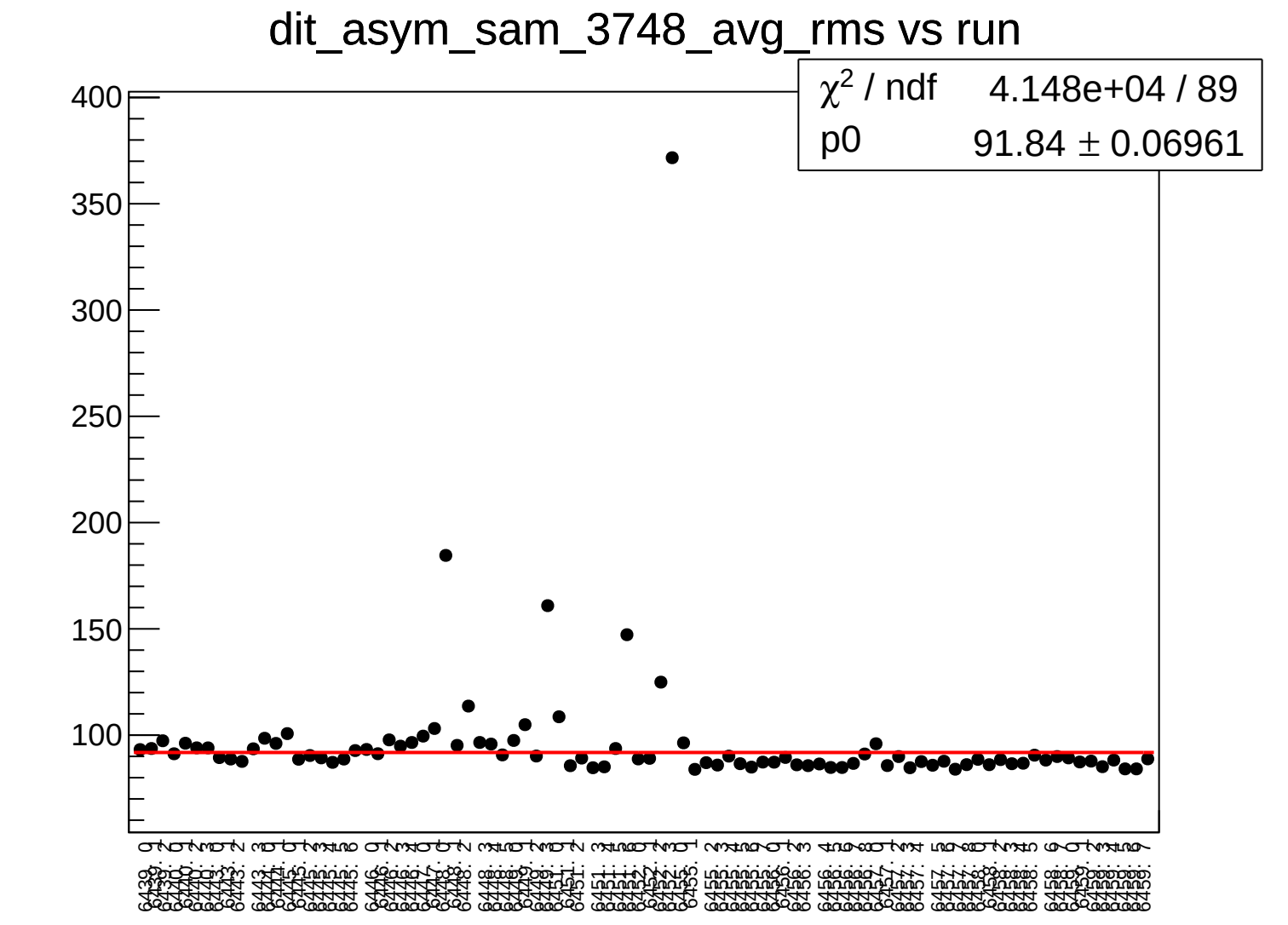

pull1D
Entries 90
Mean 0.02072
Std Dev 1.084

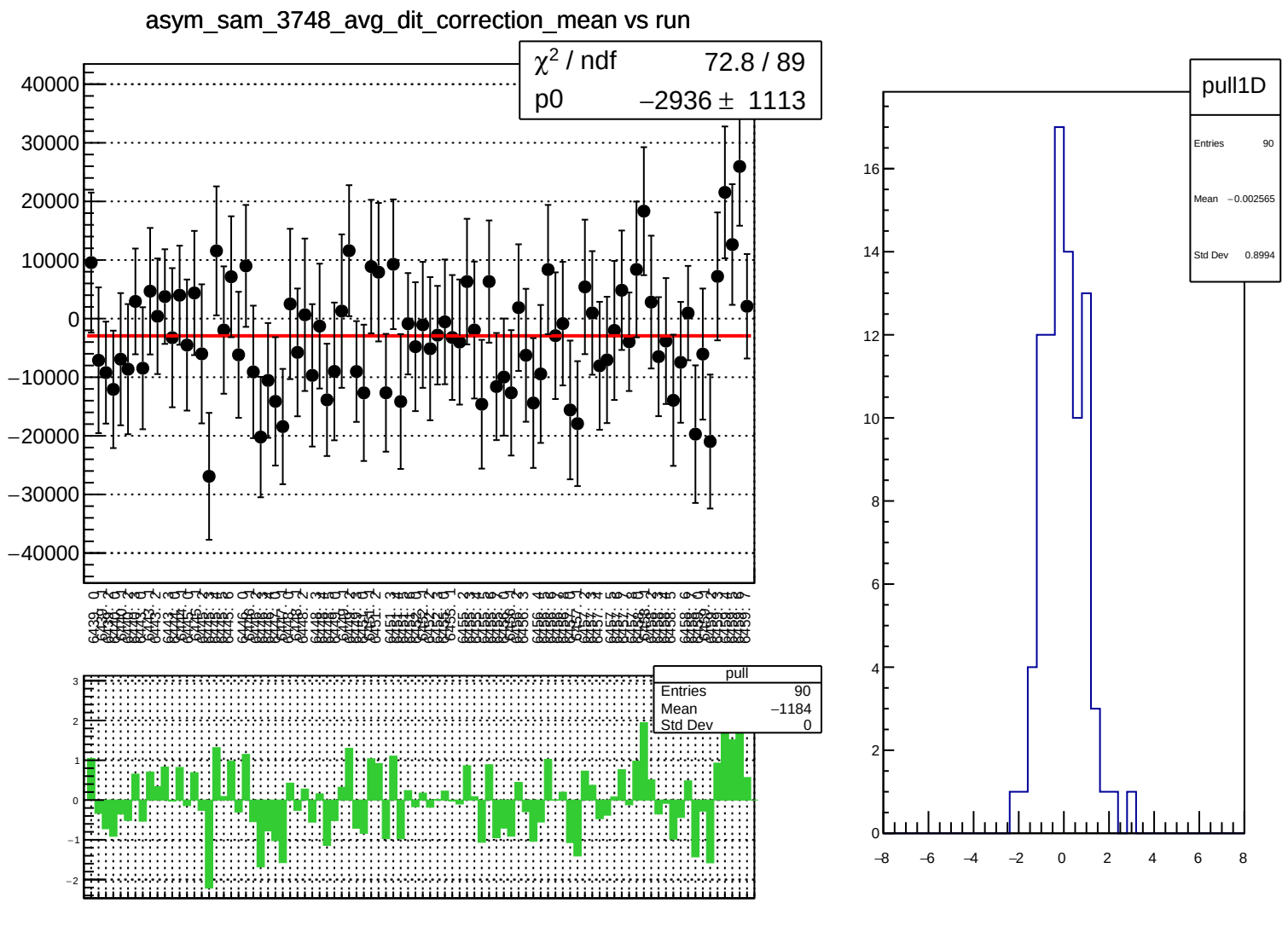

eigen_cor_asym_sam_3748_avg_rms vs run
χ² / ndf 3.176e+04 / 89
p0 83.95 ± 0.06345
240
220
200
180
160
140
120
100
80

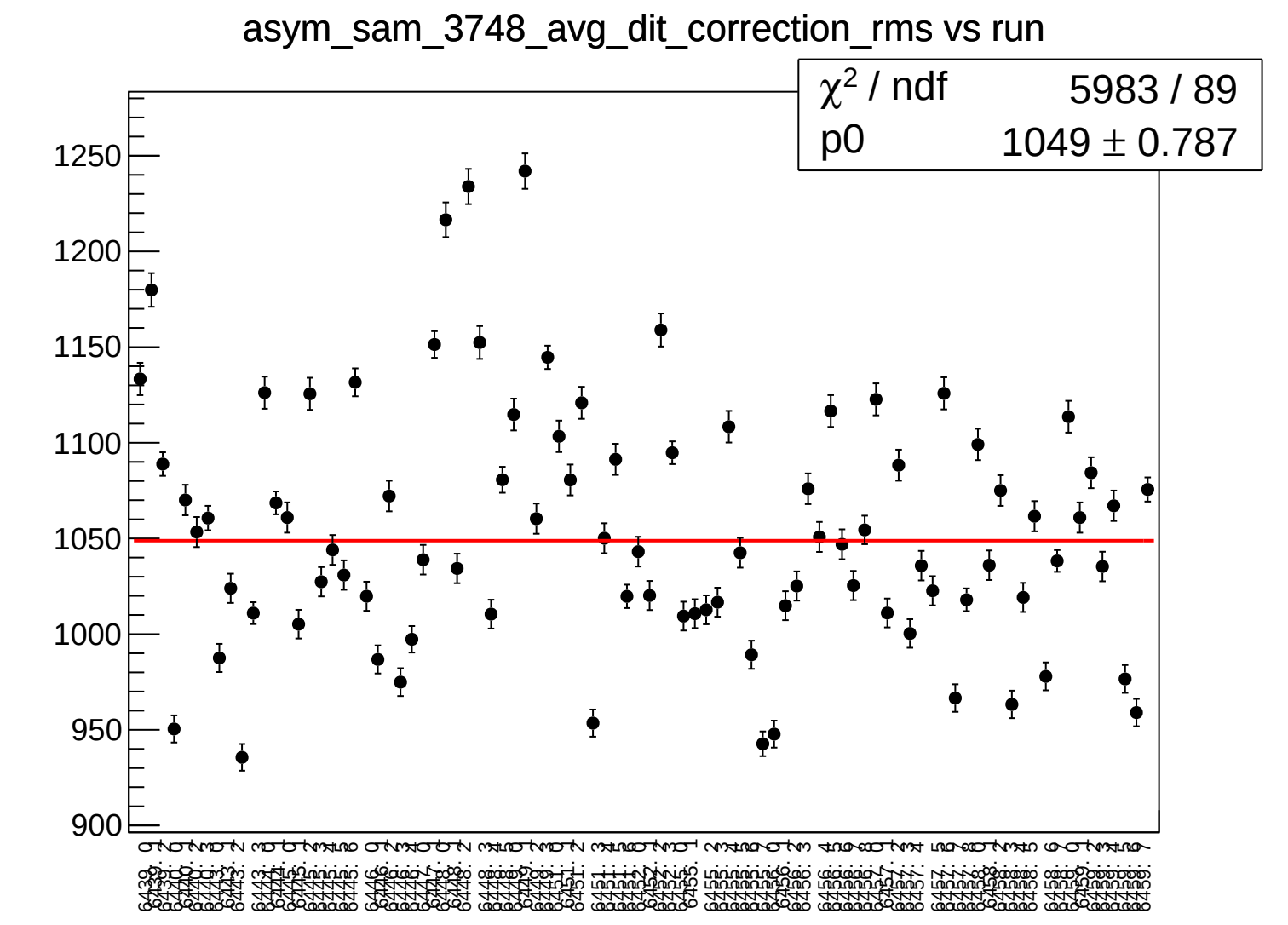

asym_sam_3748_avg_eigen_cor_correction_mean vs run
χ² / ndf 72.63 / 89
p0 −2985 ± 1125
pull
Entries 90
Mean −666.2
Std Dev 0
pull1D
Entries 90
Mean −0.004342
Std Dev 0.8983

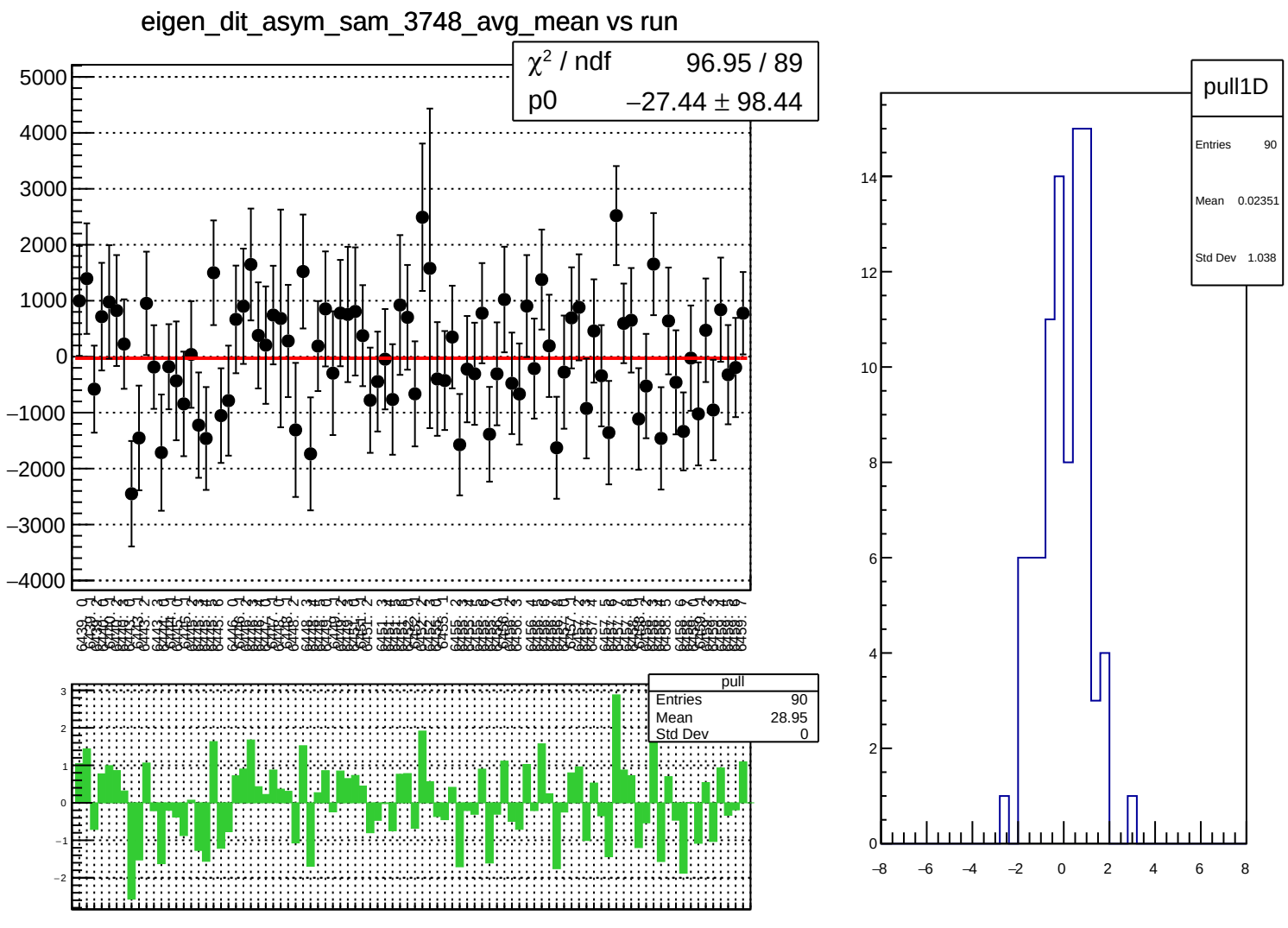

asym_sam_3748_avg_eigen_cor_correction_rms vs run
χ² / ndf 8096 / 89
p0 1060 ± 0.7956
1350
1300
1250
1200
1150
1100
1050
1000
950
900

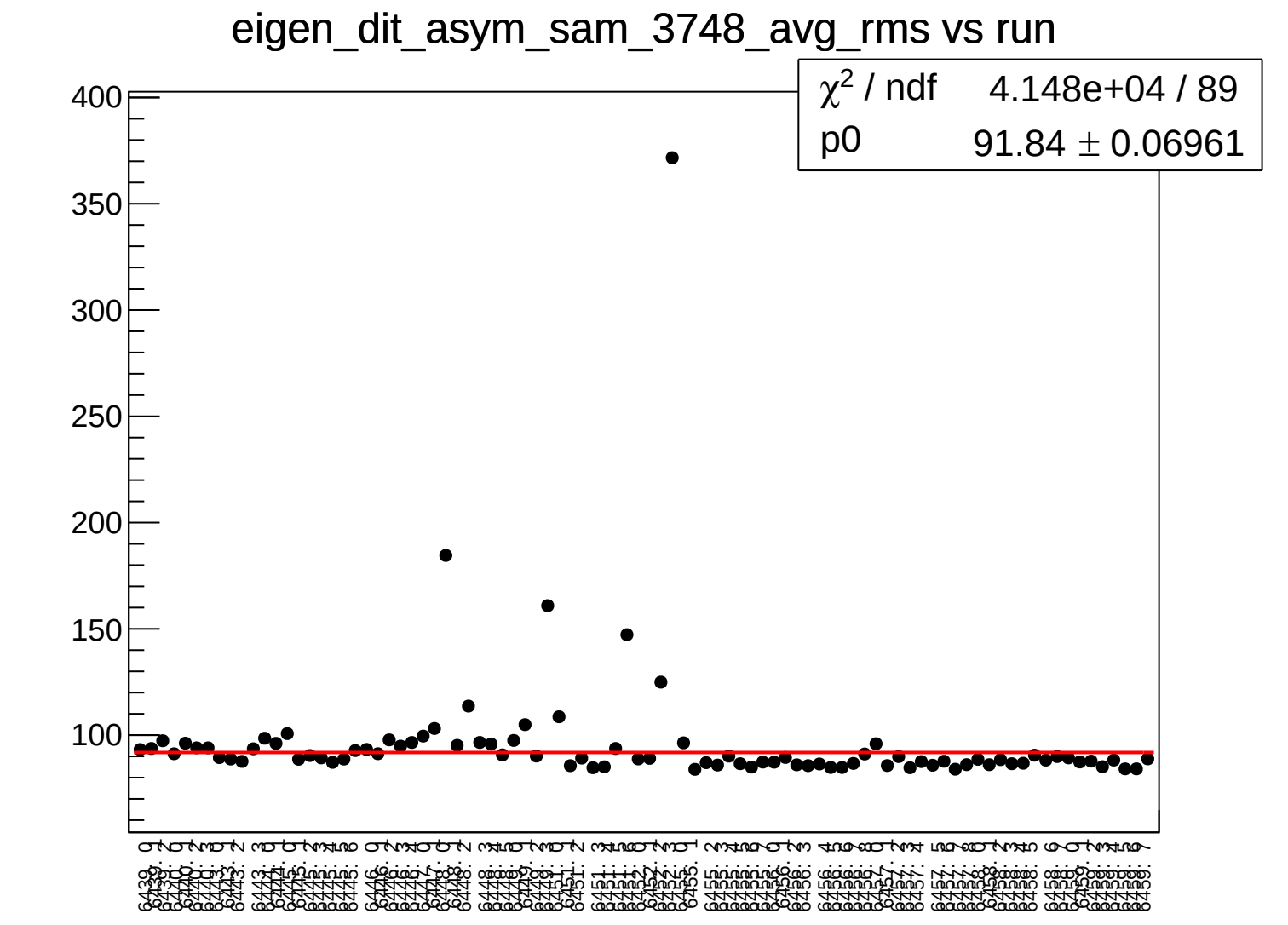

dit_asym_sam_3748_avg_mean vs run
χ² / ndf 96.95 / 89
p0 −27.45 ± 98.44
pull
Entries 90
Mean 28.95
Std Dev 0
pull1D
Entries 90
Mean 0.02351
Std Dev 1.038

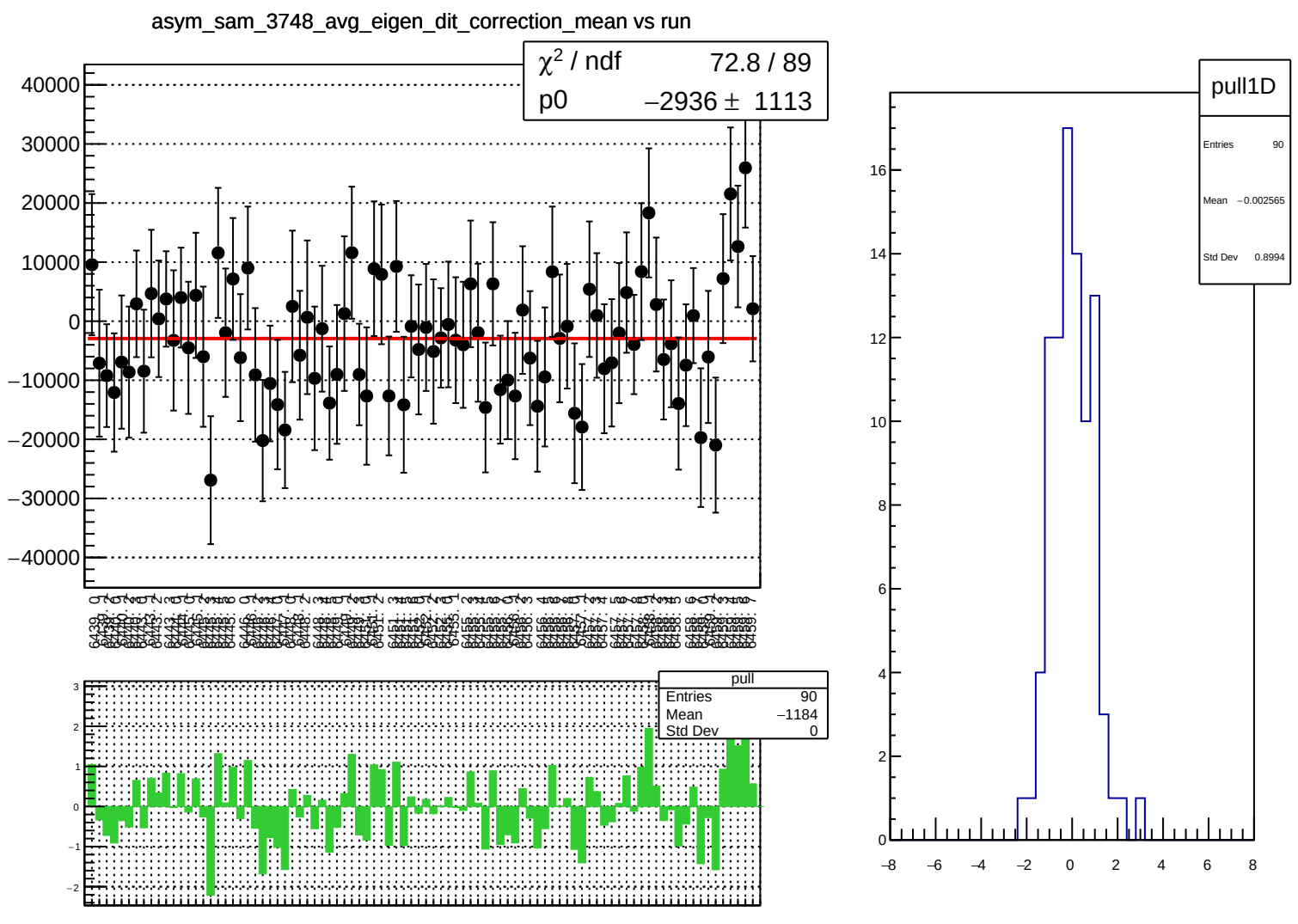

dit_asym_sam_3748_avg_rms vs run
χ^2 / ndf 4.148e+04 / 89
p0 91.84 ± 0.06961
400
350
300
250
200
150
100

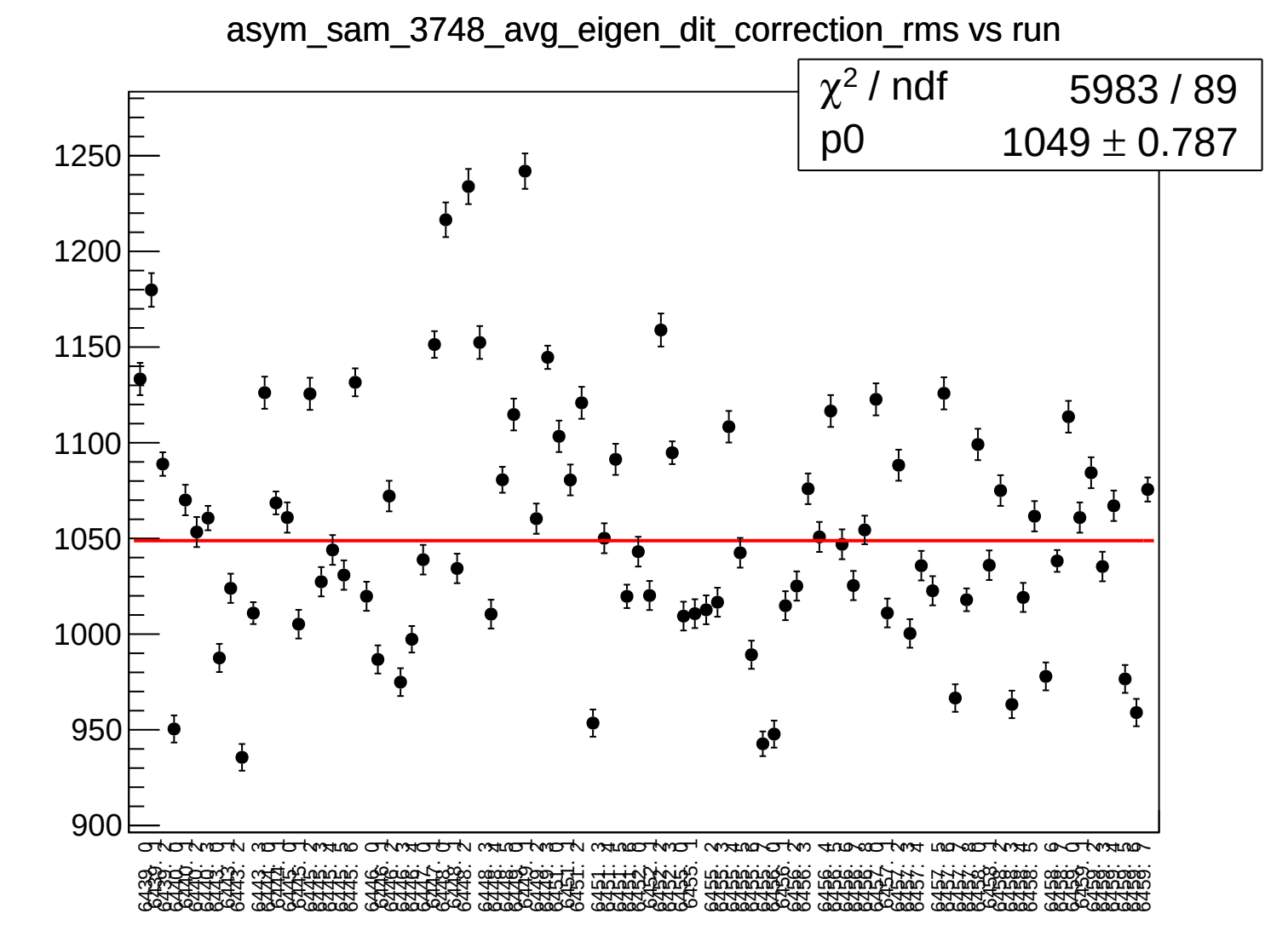

asym_sam_3748_avg_dit_correction_mean vs run
χ² / ndf 72.8 / 89
p0 −2936 ± 1113
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 90
Mean −1184
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.002565
Std Dev 0.8994
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

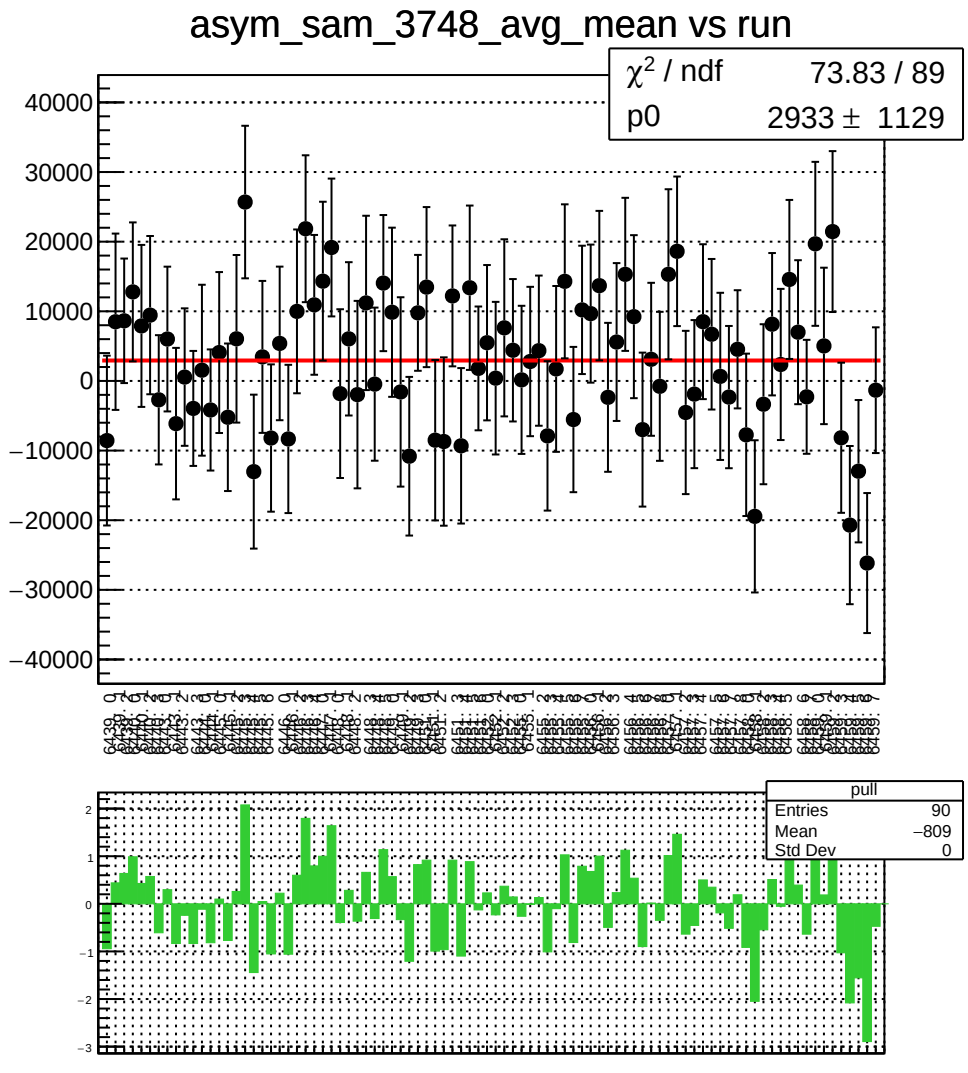

asym_sam_3748_avg_dit_correction_rms vs run
χ² / ndf 5983 / 89
p0 1049 ± 0.787
1250
1200
1150
1100
1050
1000
950
900

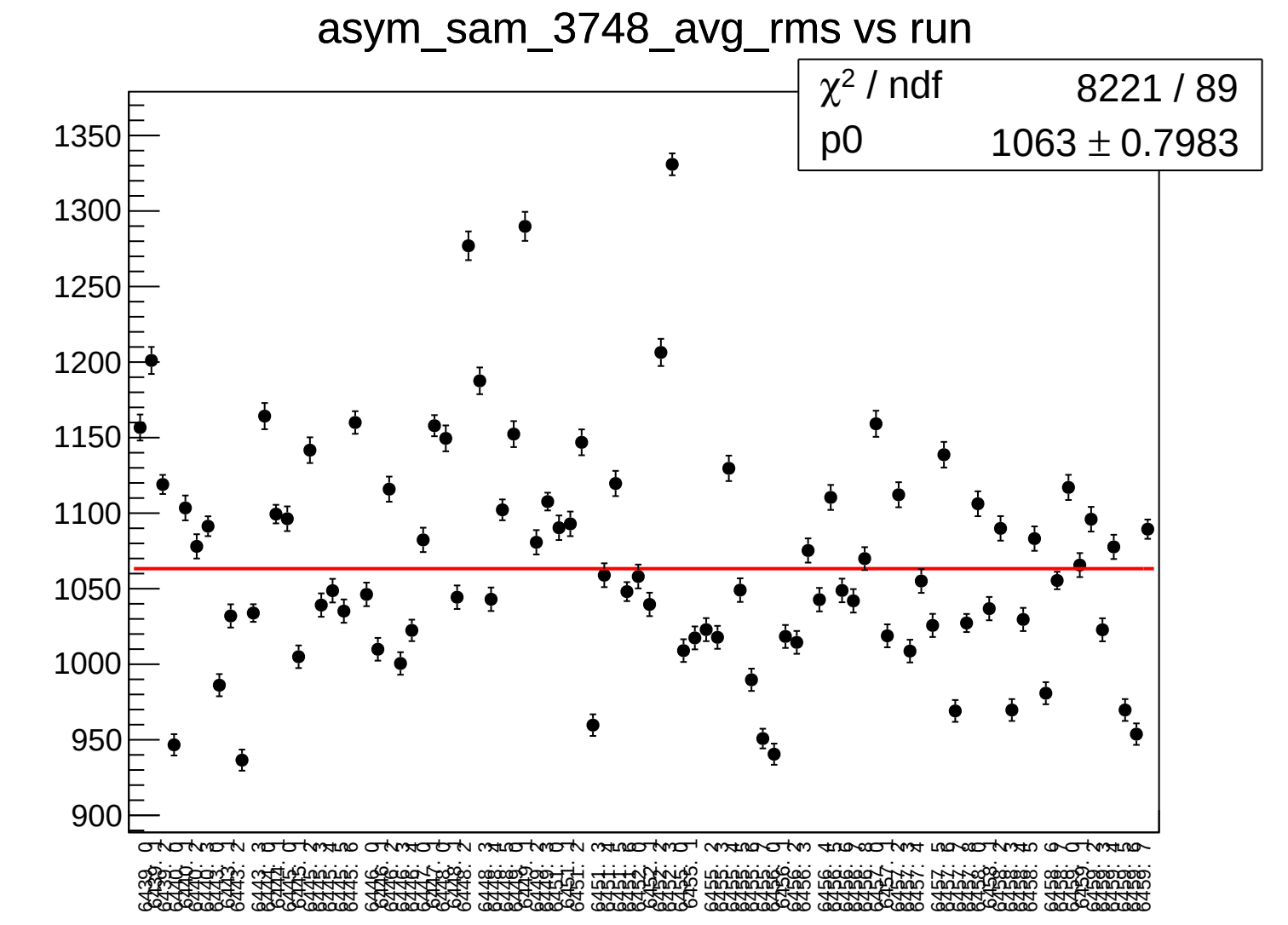

eigen_dit_asym_sam_3748_avg_mean vs run
χ² / ndf 96.95 / 89
p0 −27.44 ± 98.44
pull
Entries 90
Mean 28.95
Std Dev 0
pull1D
Entries 90
Mean 0.02351
Std Dev 1.038

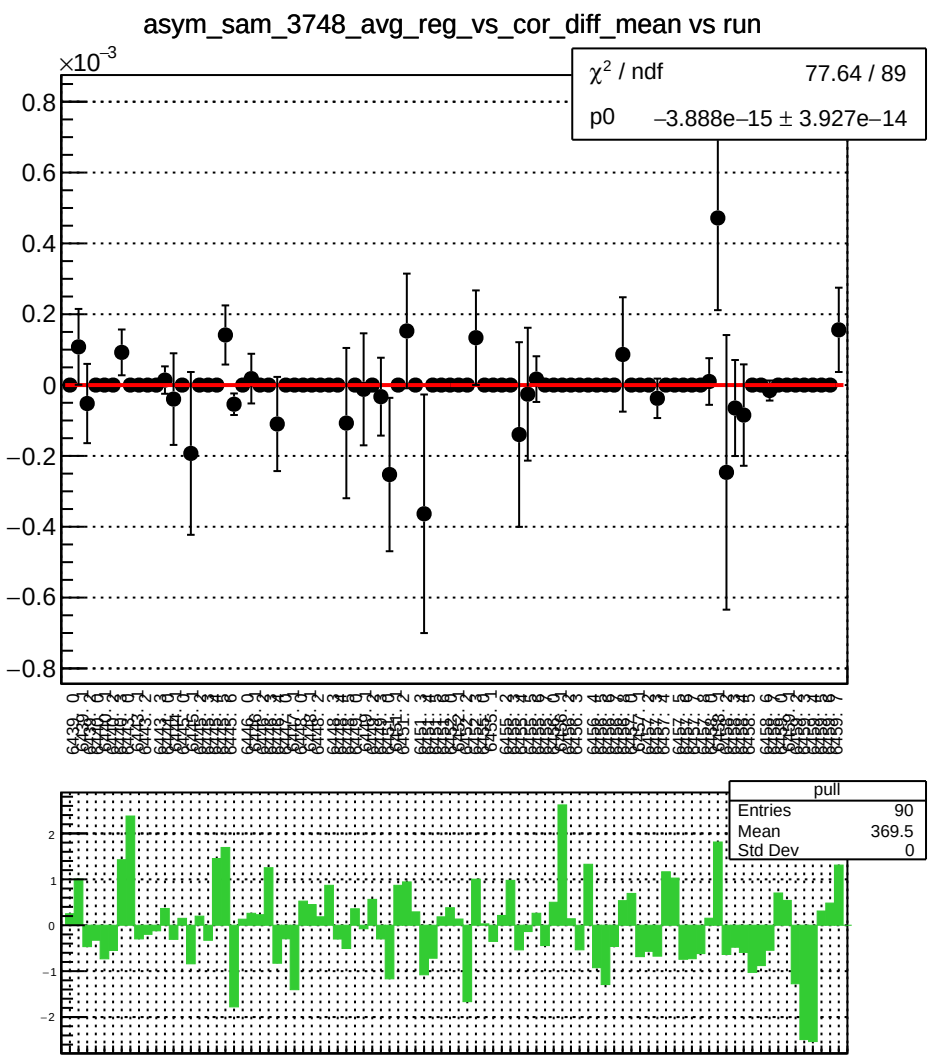

eigen_dit_asym_sam_3748_avg_rms vs run
χ² / ndf 4.148e+04 / 89
p0 91.84 ± 0.06961
400
350
300
250
200
150
100

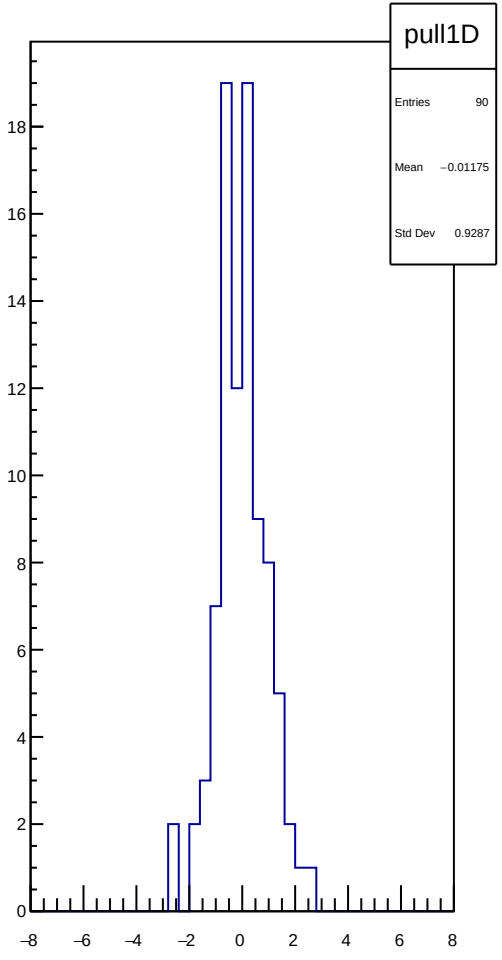

asym_sam_3748_avg_eigen_dit_correction_mean vs run
χ² / ndf 72.8 / 89
p0 −2936 ± 1113
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 90
Mean −1184
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.002565
Std Dev 0.8994
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

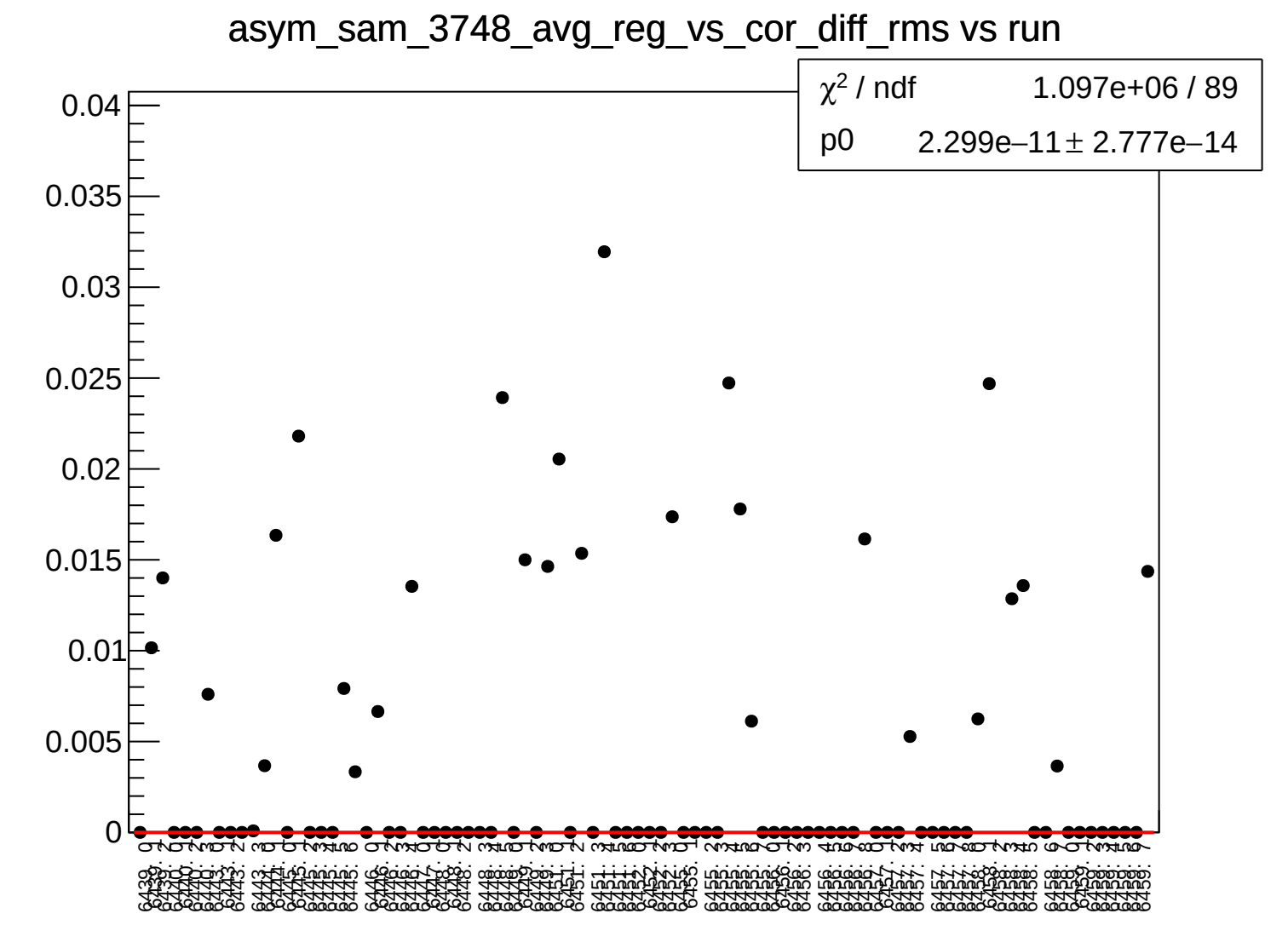

asym_sam_3748_avg_eigen_dit_correction_rms vs run
χ² / ndf 5983 / 89
p0 1049 ± 0.787
1250
1200
1150
1100
1050
1000
950
900

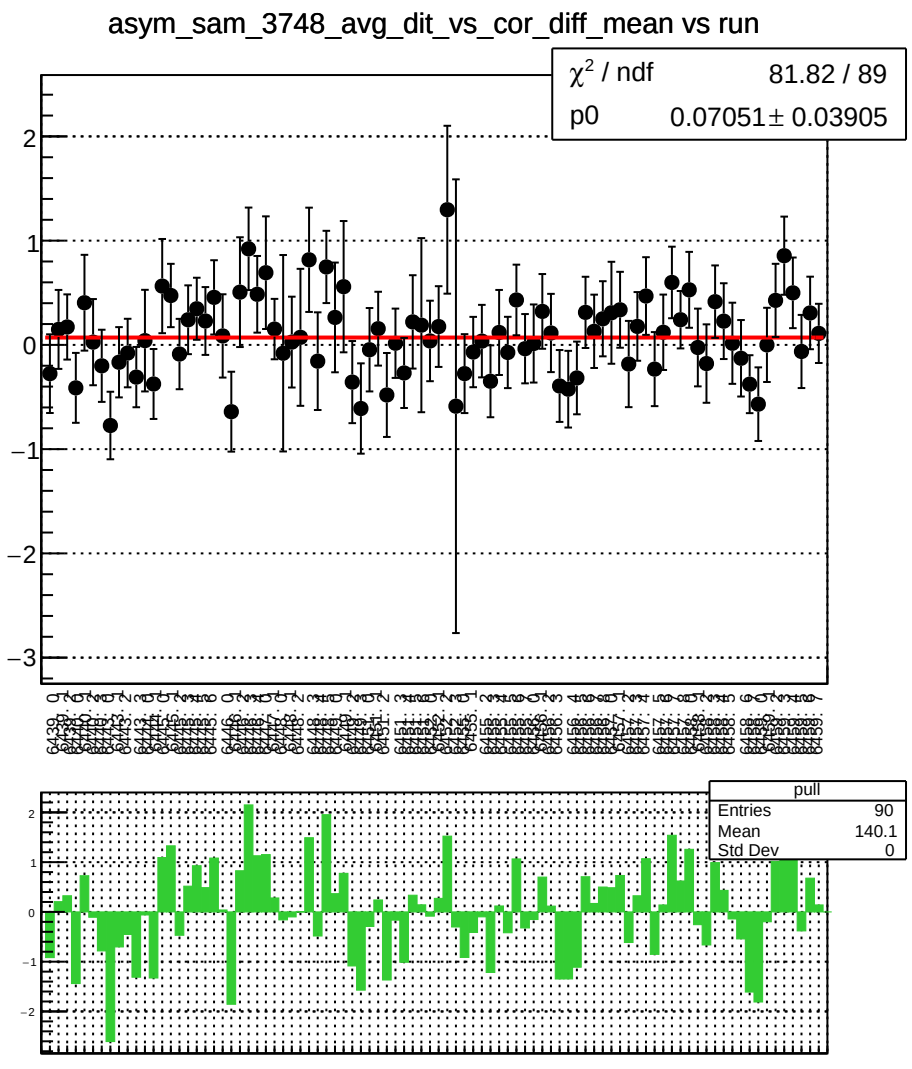

asym_sam_3748_avg_mean vs run
χ² / ndf 73.83 / 89
p0 2933 ± 1129
pull
Entries 90
Mean −809
Std Dev 0
pull1D
Entries 90
Mean 0.003742
Std Dev 0.9057

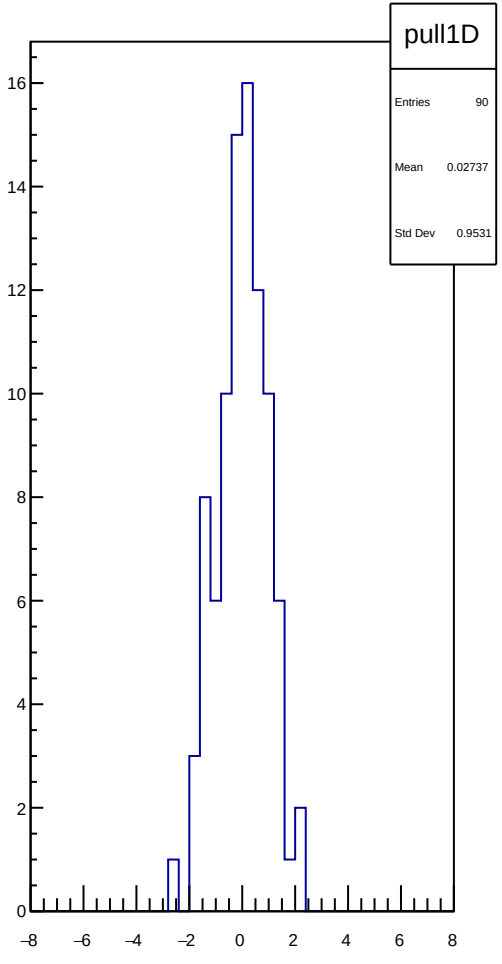

asym_sam_3748_avg_rms vs run
χ^2 / ndf 8221 / 89
p0 1063 ± 0.7983
1350
1300
1250
1200
1150
1100
1050
1000
950
900

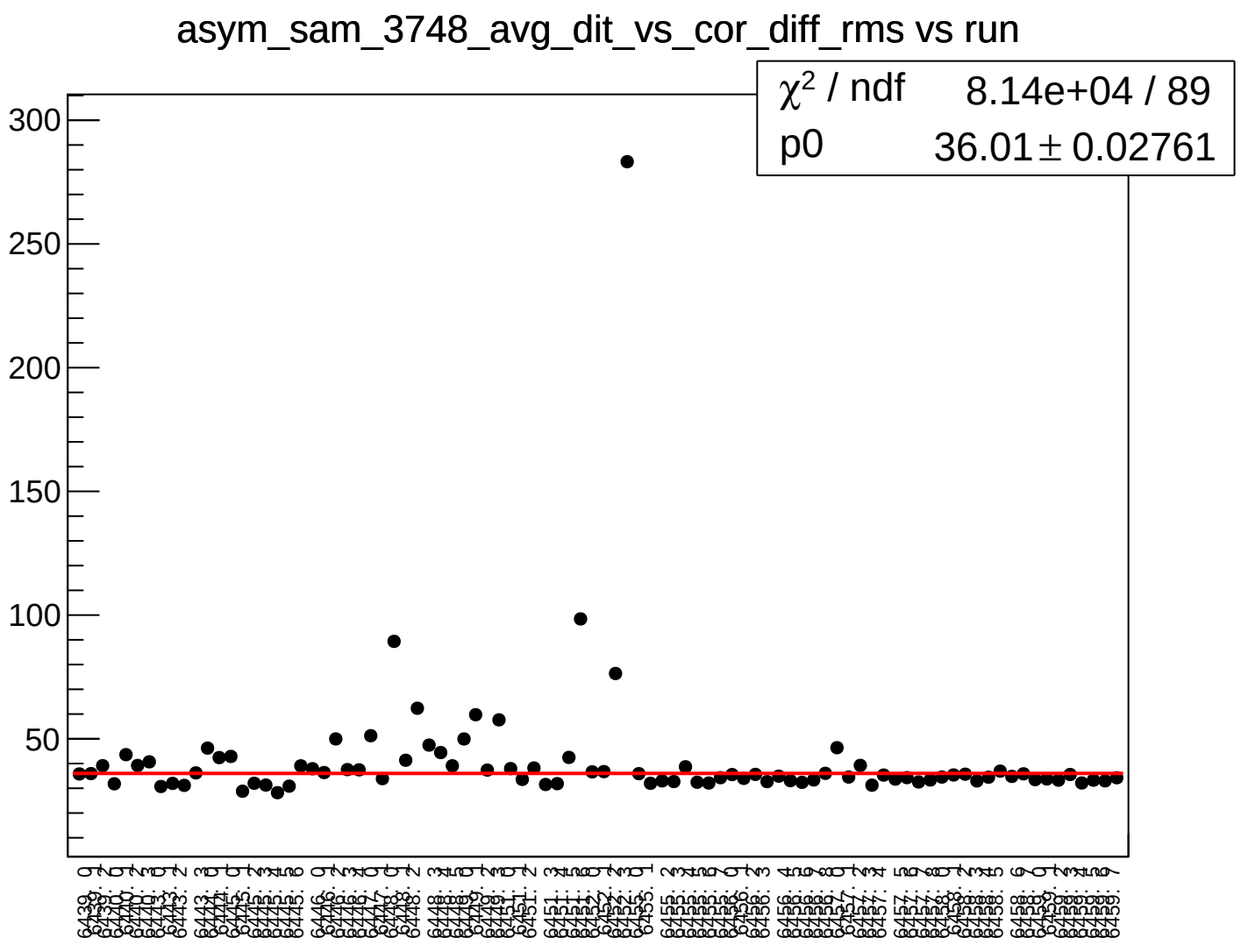

asym_sam_3748_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 77.64 / 89
p0 −3.888e−15 ± 3.927e−14
pull
Entries 90
Mean 369.5
Std Dev 0

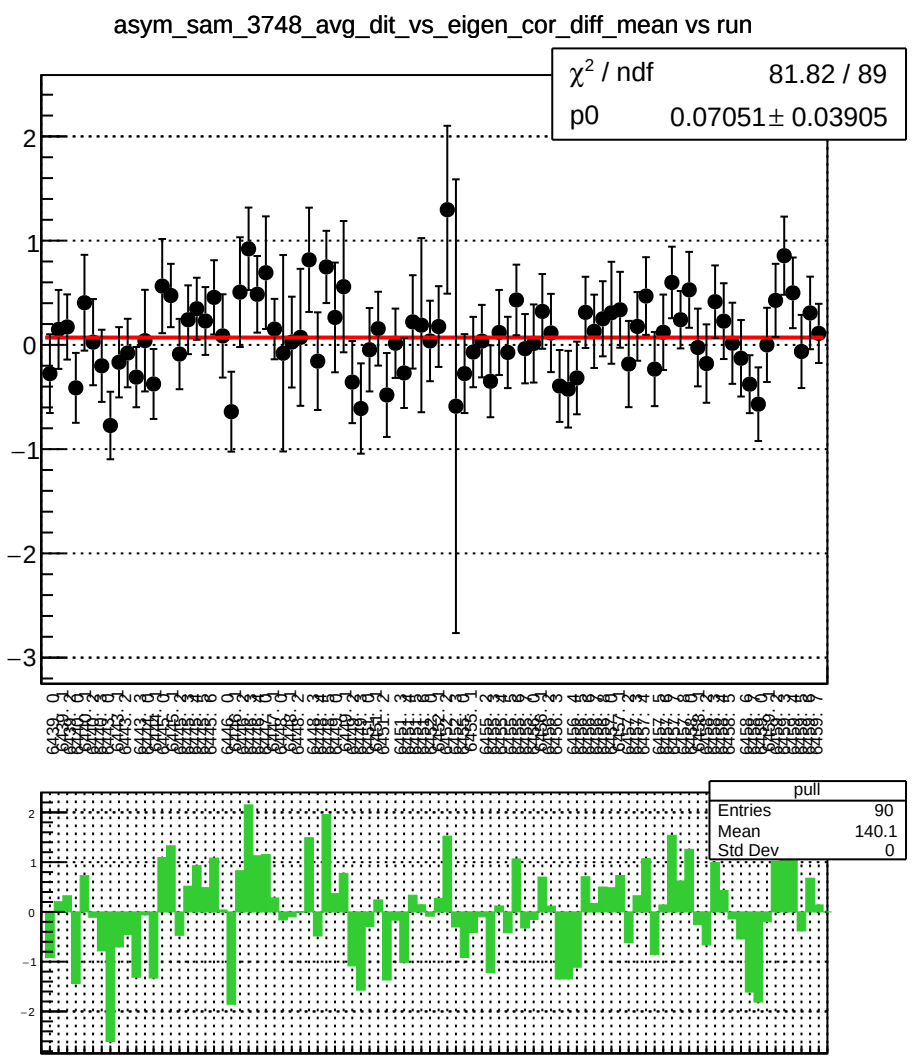

pull1D
Entries 90
Mean −0.01175
Std Dev 0.9287

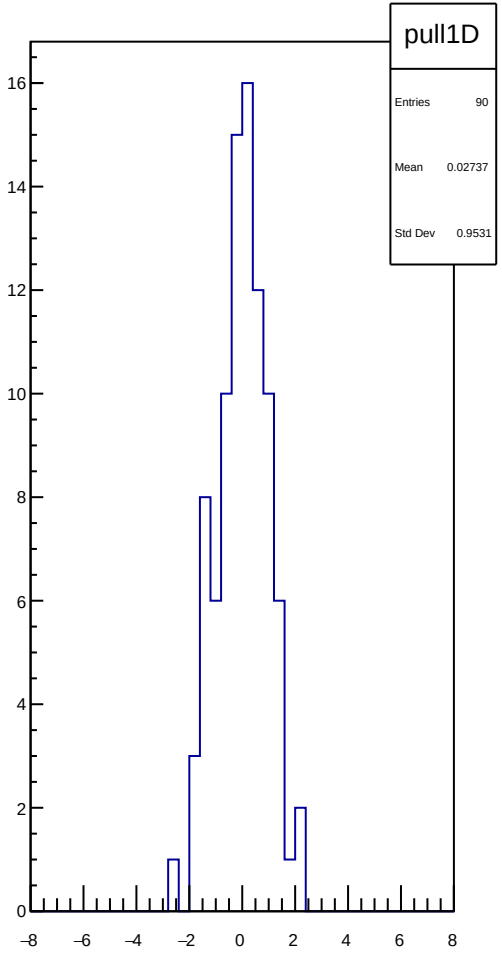

asym_sam_3748_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.097e+06 / 89
p0 2.299e−11 ± 2.777e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

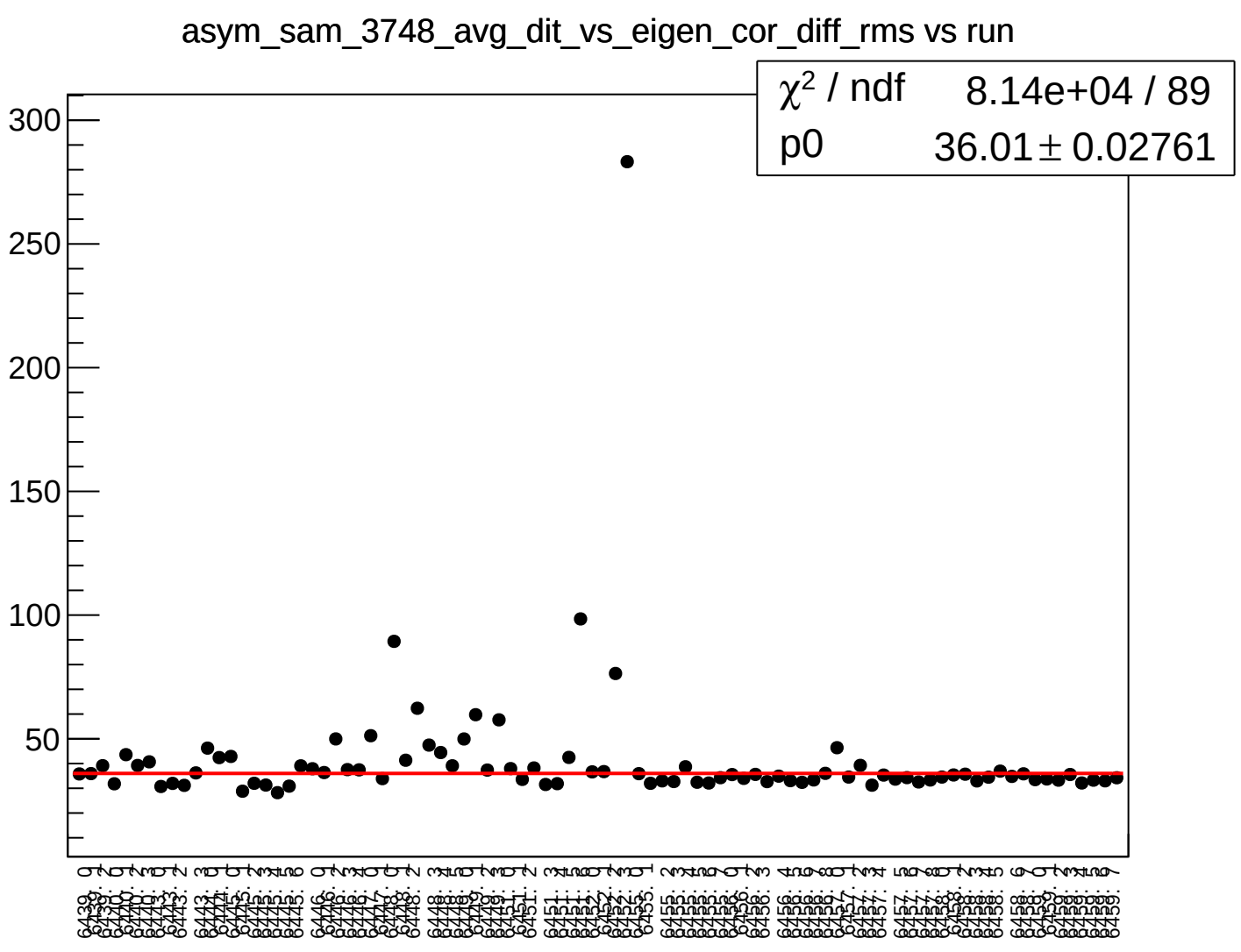

asym_sam_3748_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 81.82 / 89
p0 0.07051 ± 0.03905
pull
Entries 90
Mean 140.1
Std Dev 0

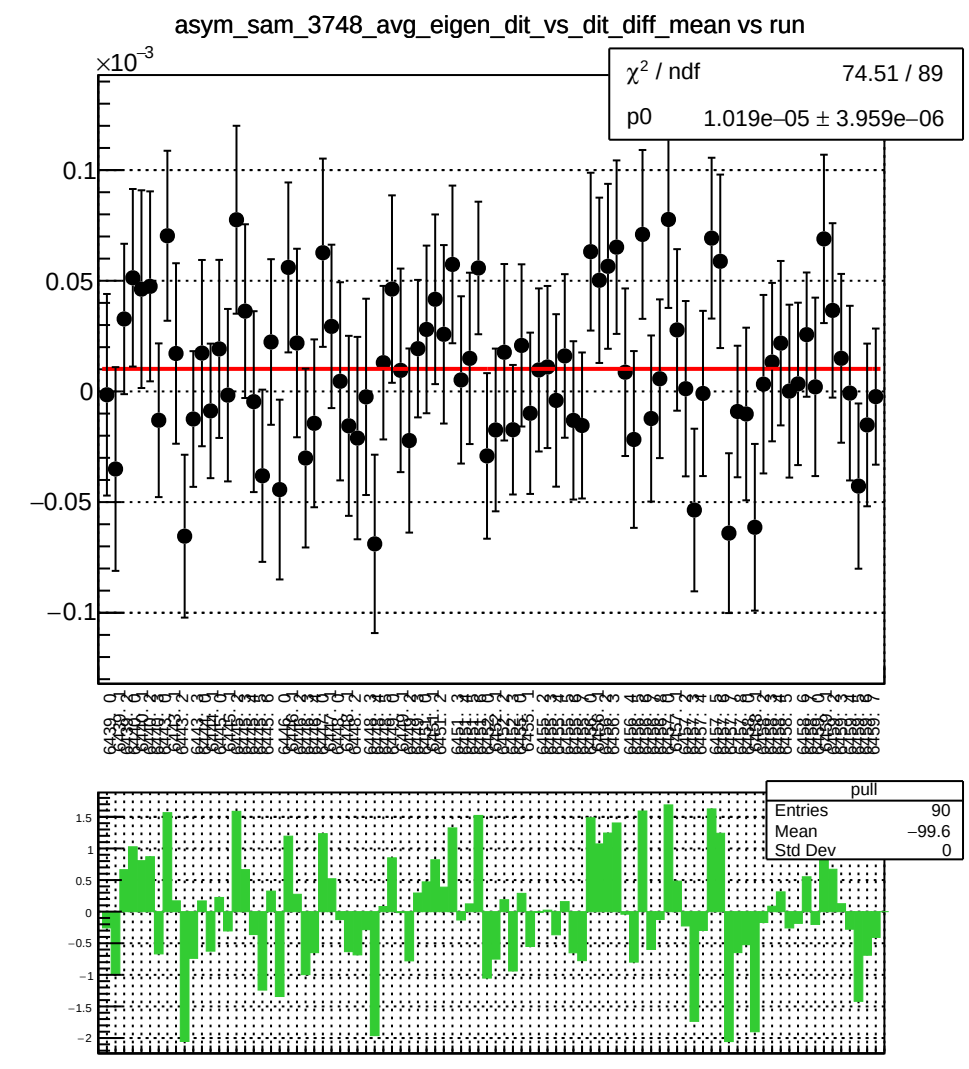

pull1D
Entries 90
Mean 0.02737
Std Dev 0.9531

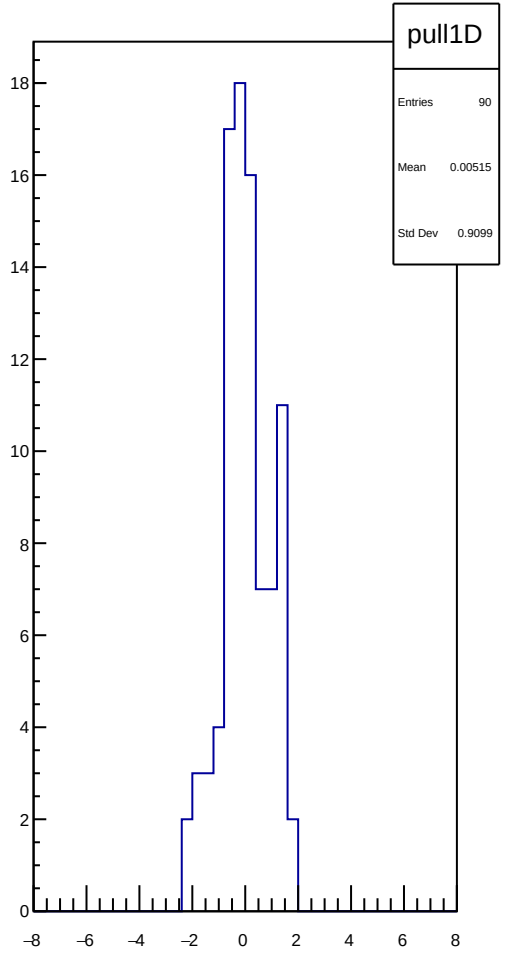

asym_sam_3748_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.14e+04 / 89
p0 36.01 ± 0.02761
300
250
200
150
100
50

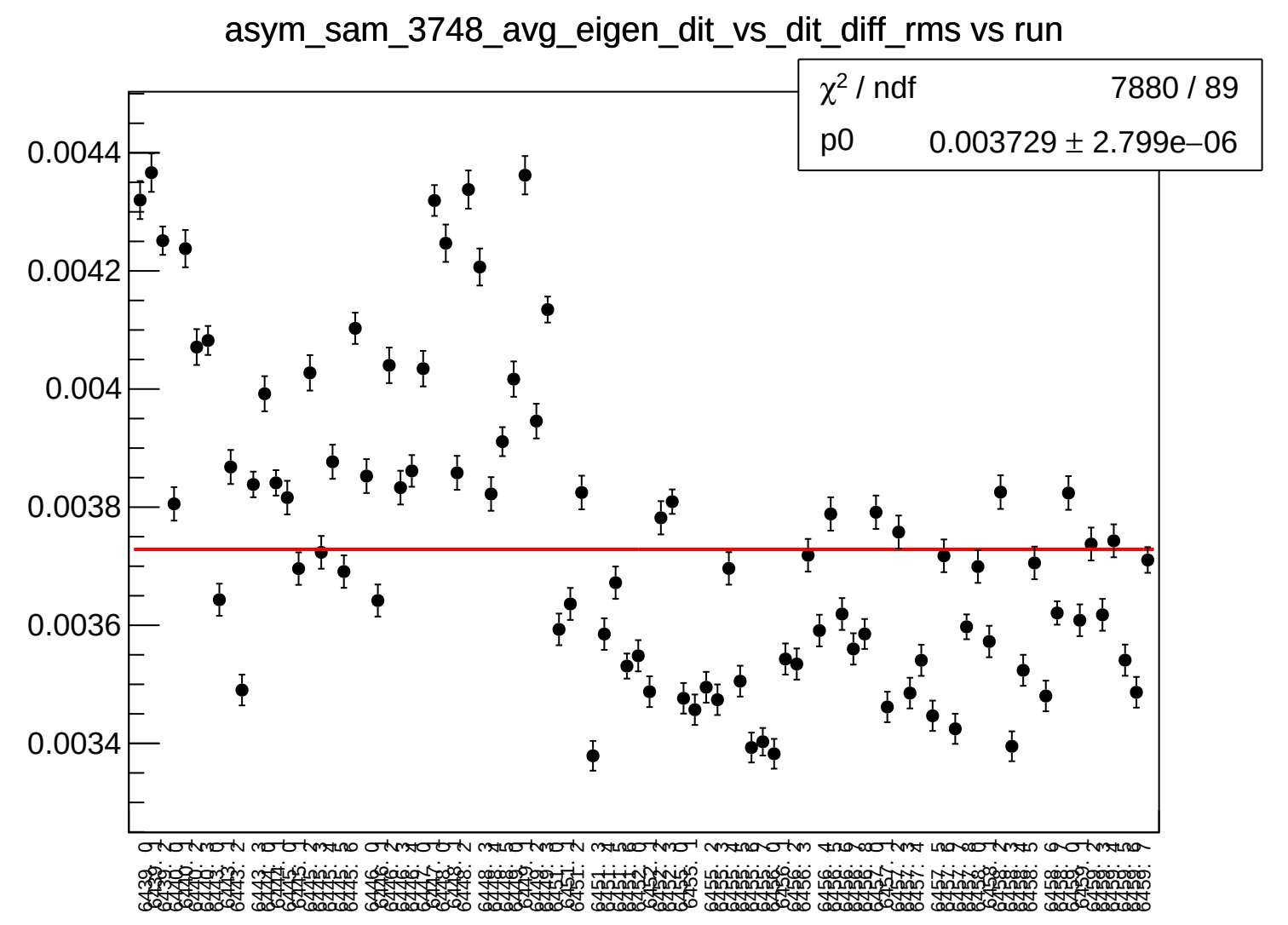

asym_sam_3748_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.82 / 89
p0 0.07051 ± 0.03905
pull
Entries 90
Mean 140.1
Std Dev 0

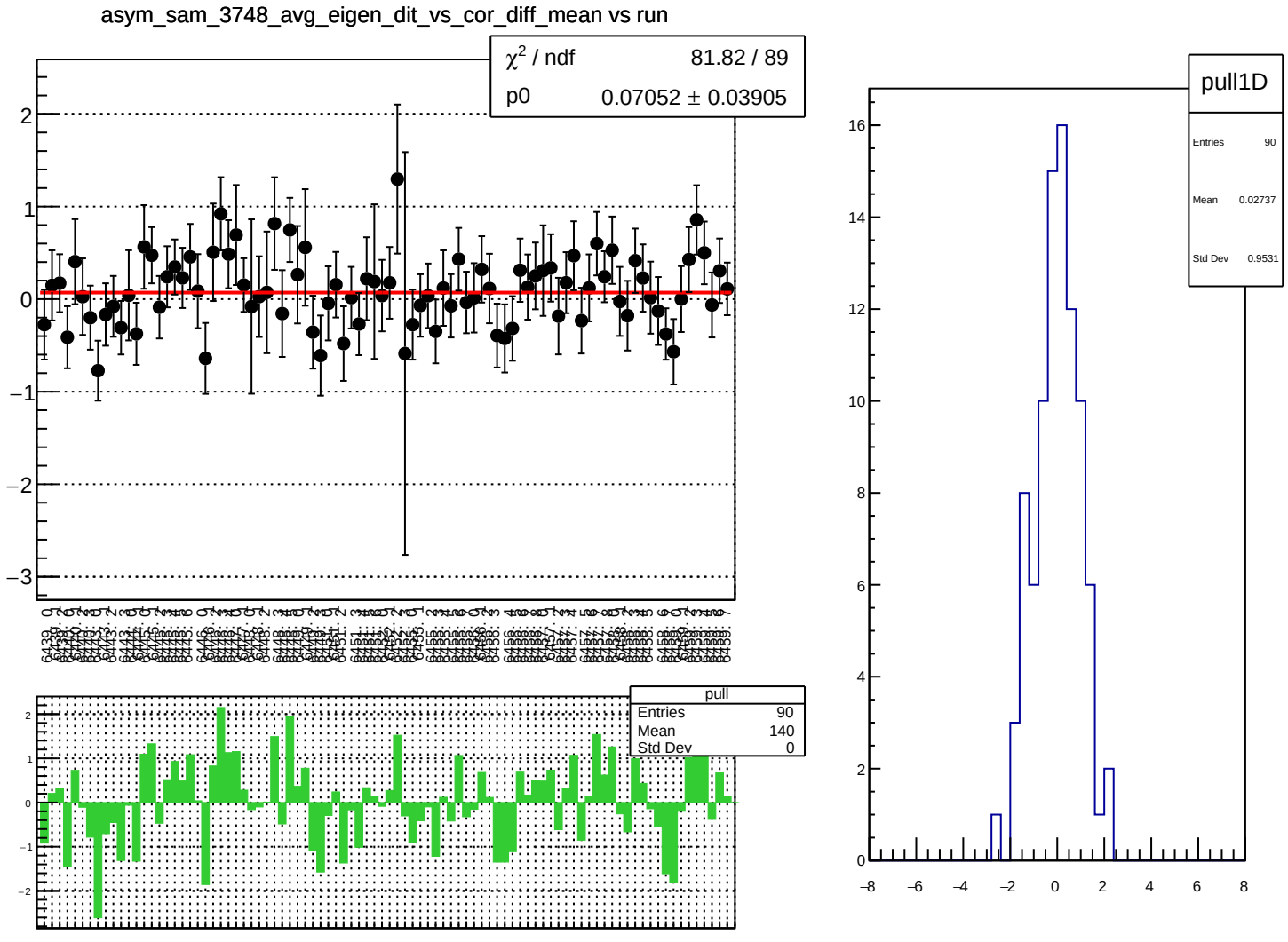

pull1D
Entries 90
Mean 0.02737
Std Dev 0.9531

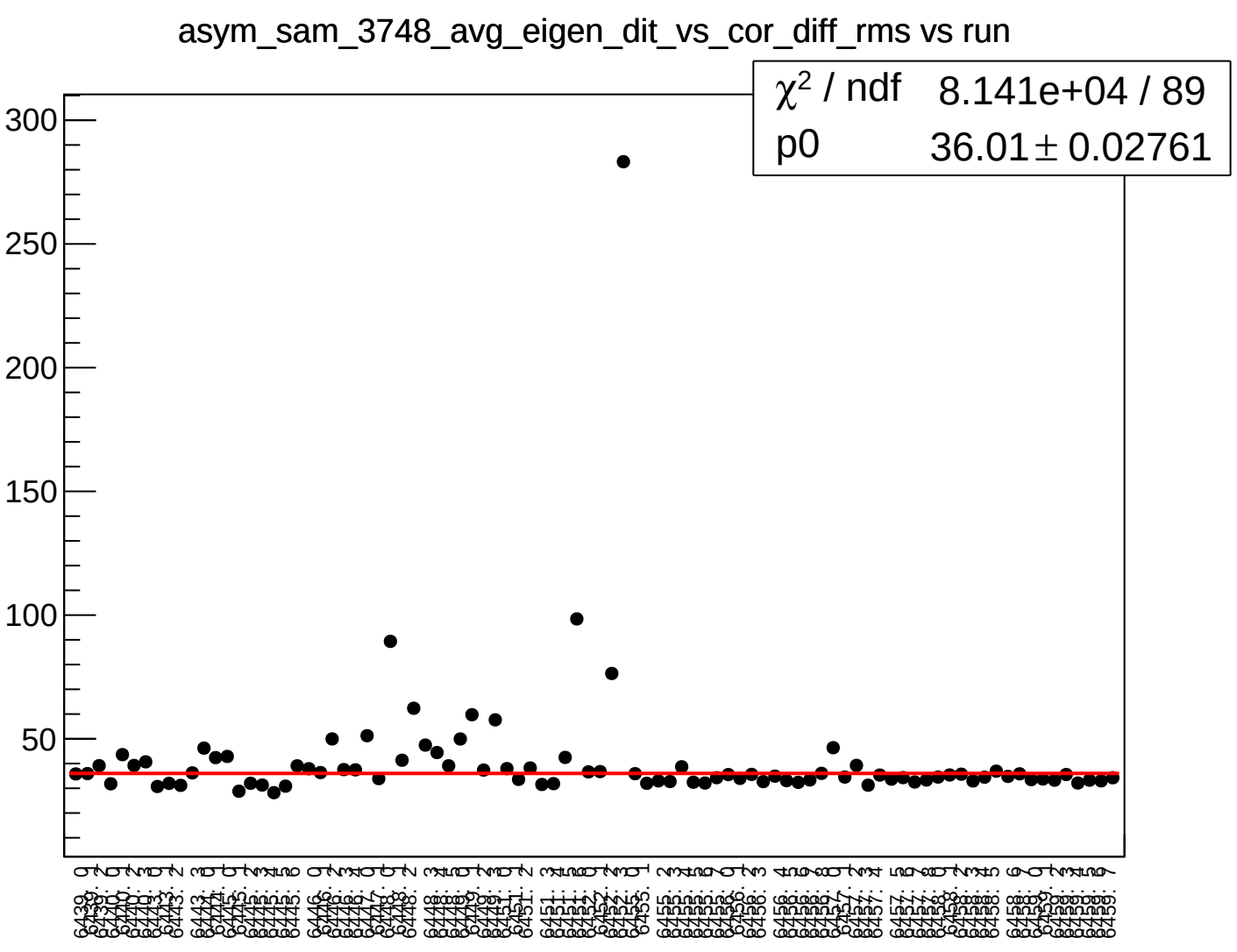

asym_sam_3748_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.14e+04 / 89
p0 36.01 ± 0.02761
300
250
200
150
100
50

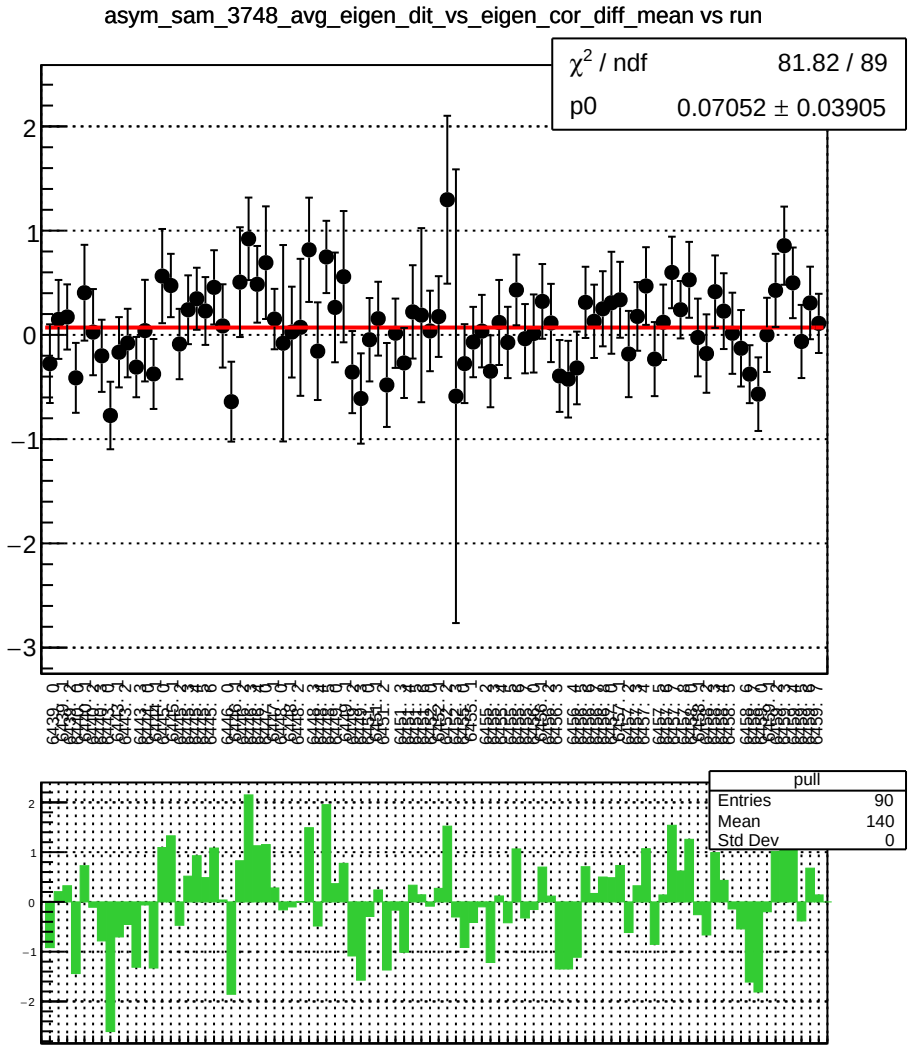

asym_sam_3748_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 74.51 / 89
p0 1.019e−05 ± 3.959e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 90
Mean −99.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

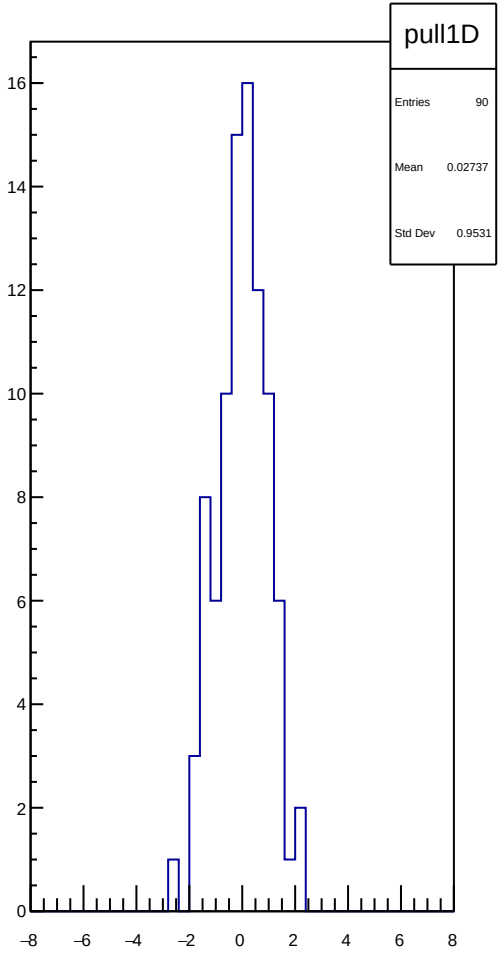

pull1D
Entries 90
Mean 0.00515
Std Dev 0.9099
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

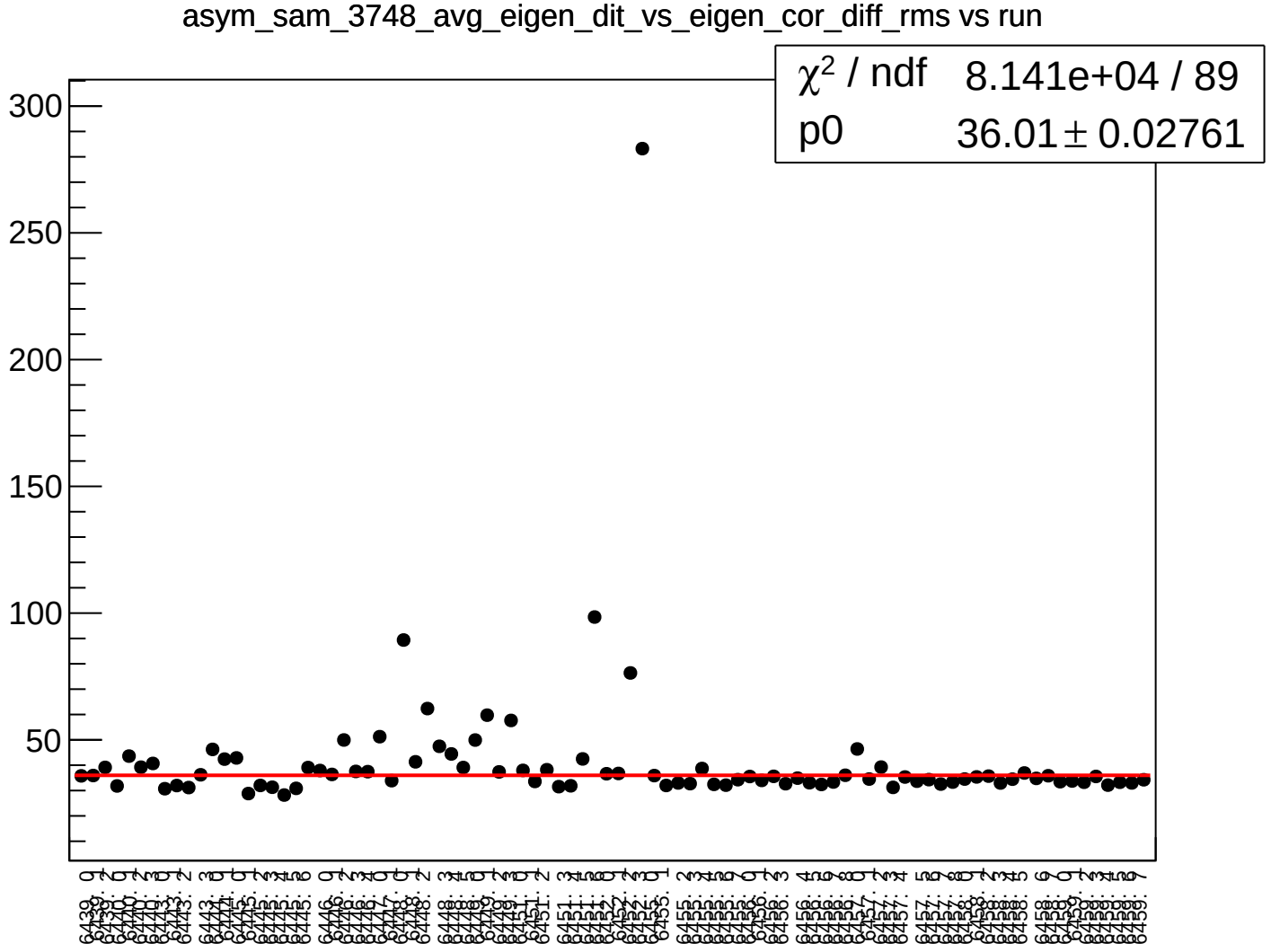

asym_sam_3748_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7880 / 89
p0 0.003729 ± 2.799e−06
0.0044
0.0042
0.004
0.0038
0.0036
0.0034

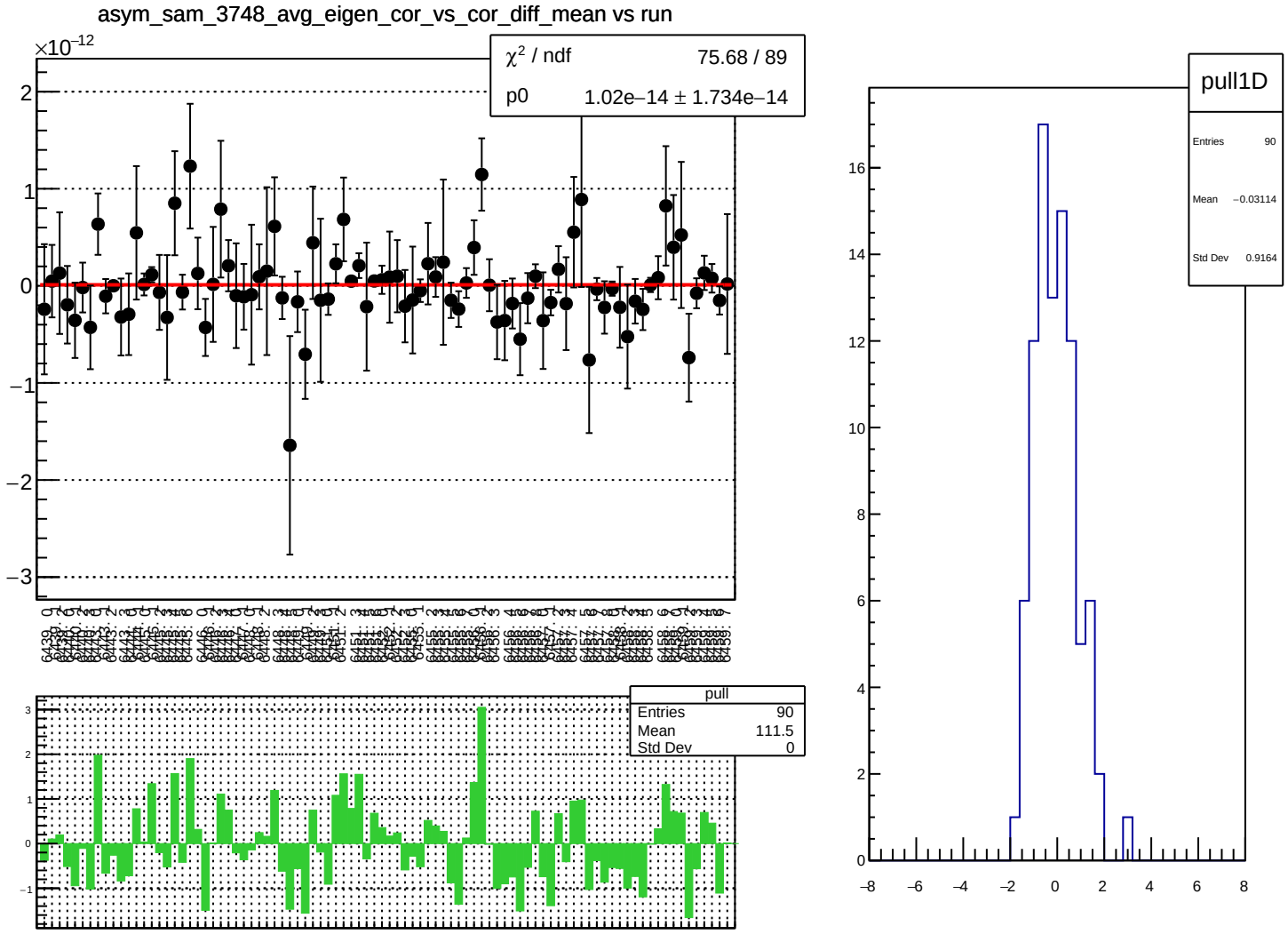

asym_sam_3748_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.82 / 89
p0 0.07052 ± 0.03905
pull
Entries 90
Mean 140
Std Dev 0
pull1D
Entries 90
Mean 0.02737
Std Dev 0.9531

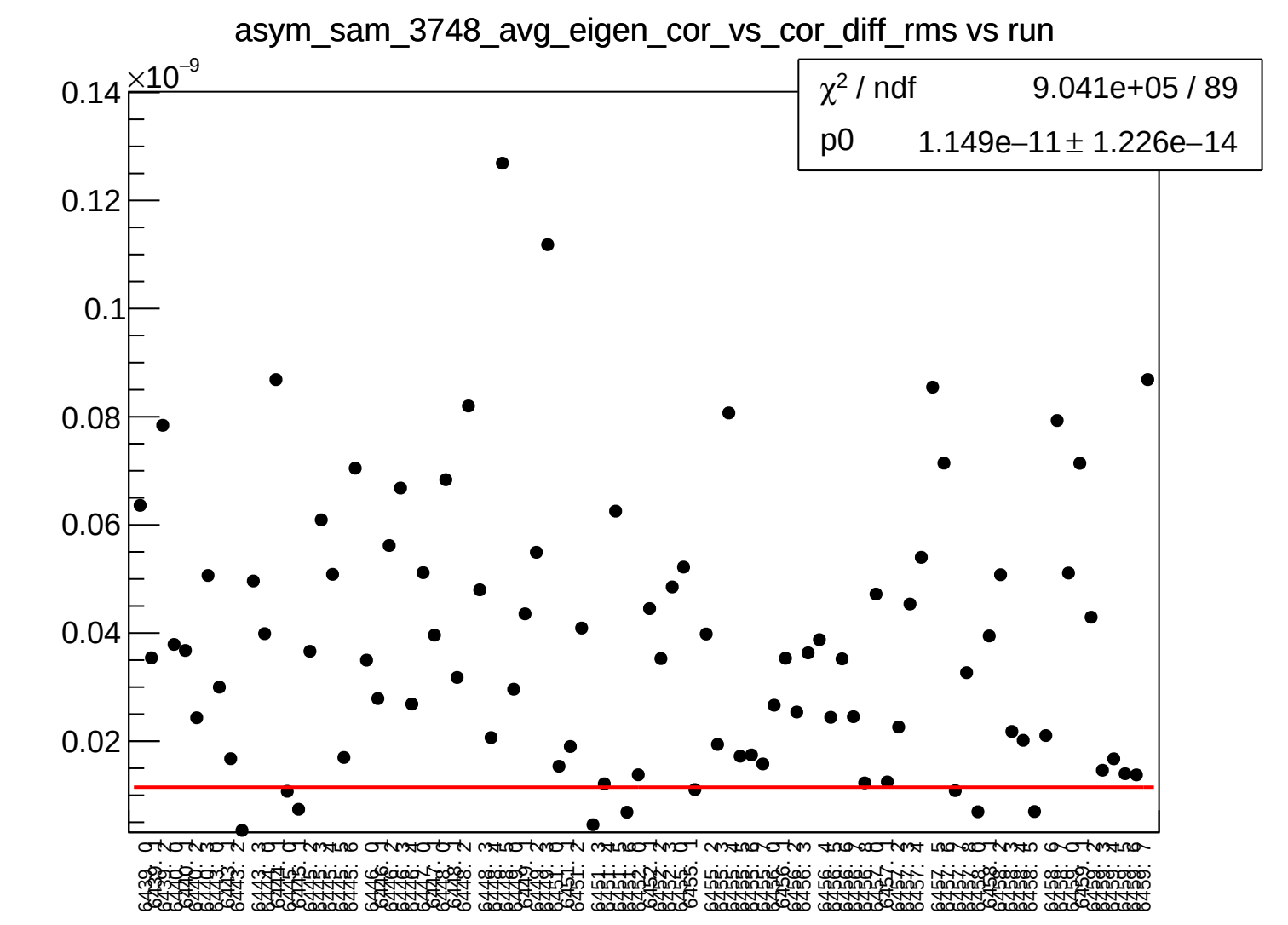

asym_sam_3748_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.141e+04 / 89
p0 36.01 ± 0.02761
300
250
200
150
100
50

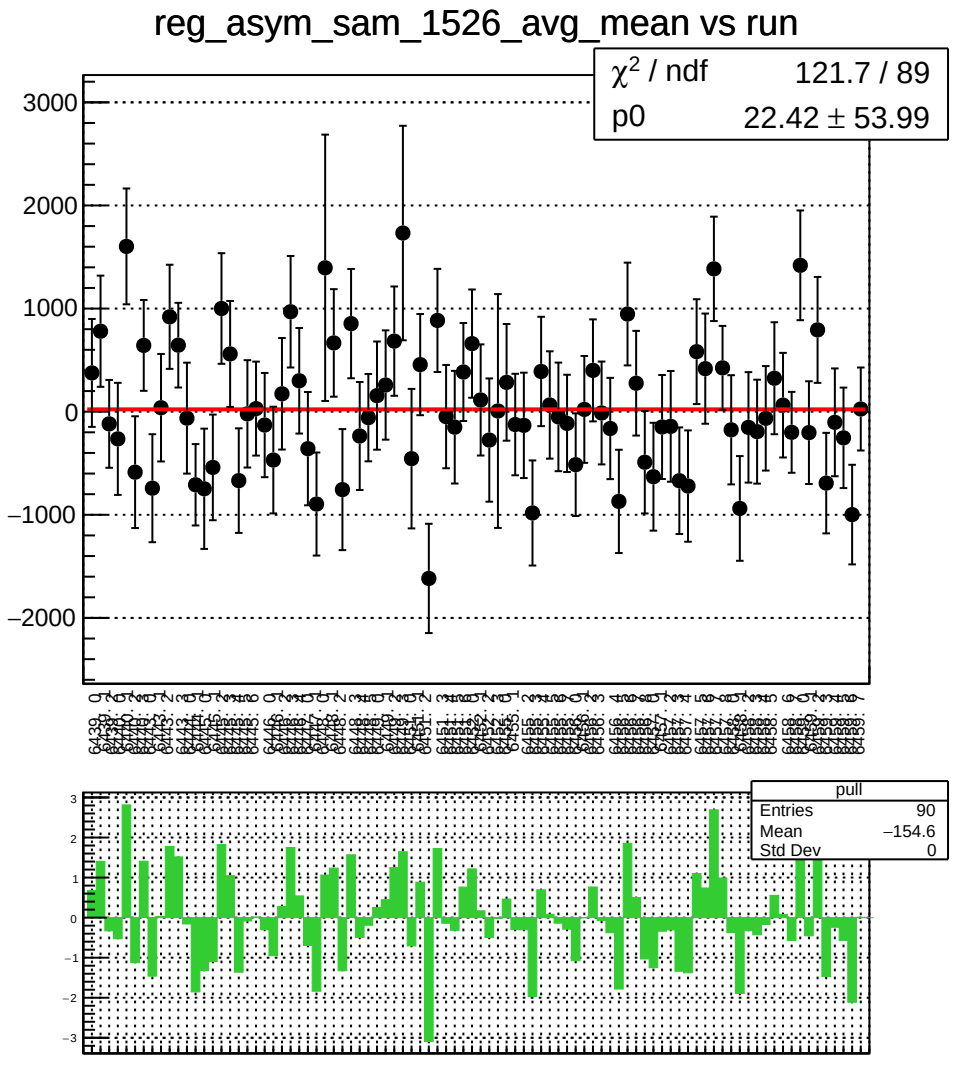

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.82 / 89
p0 0.07052 ± 0.03905
pull
Entries 90
Mean 140
Std Dev 0

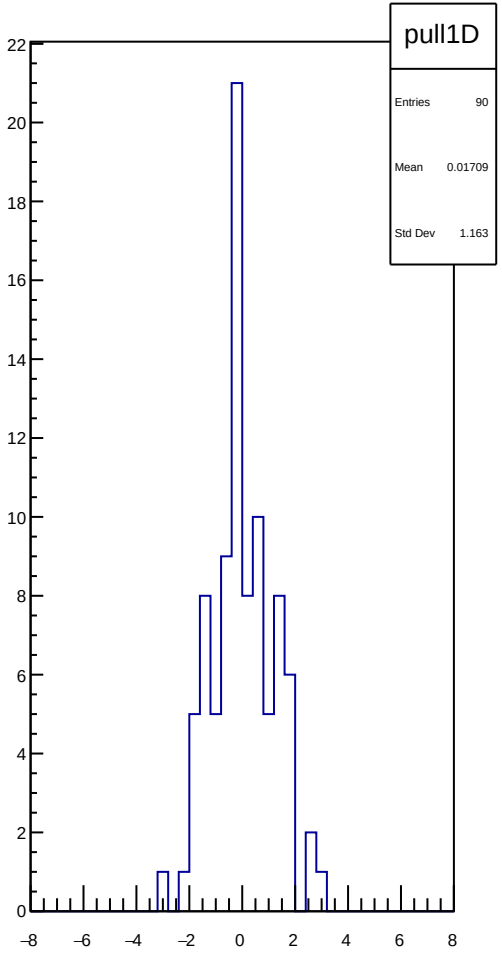

pull1D
Entries 90
Mean 0.02737
Std Dev 0.9531

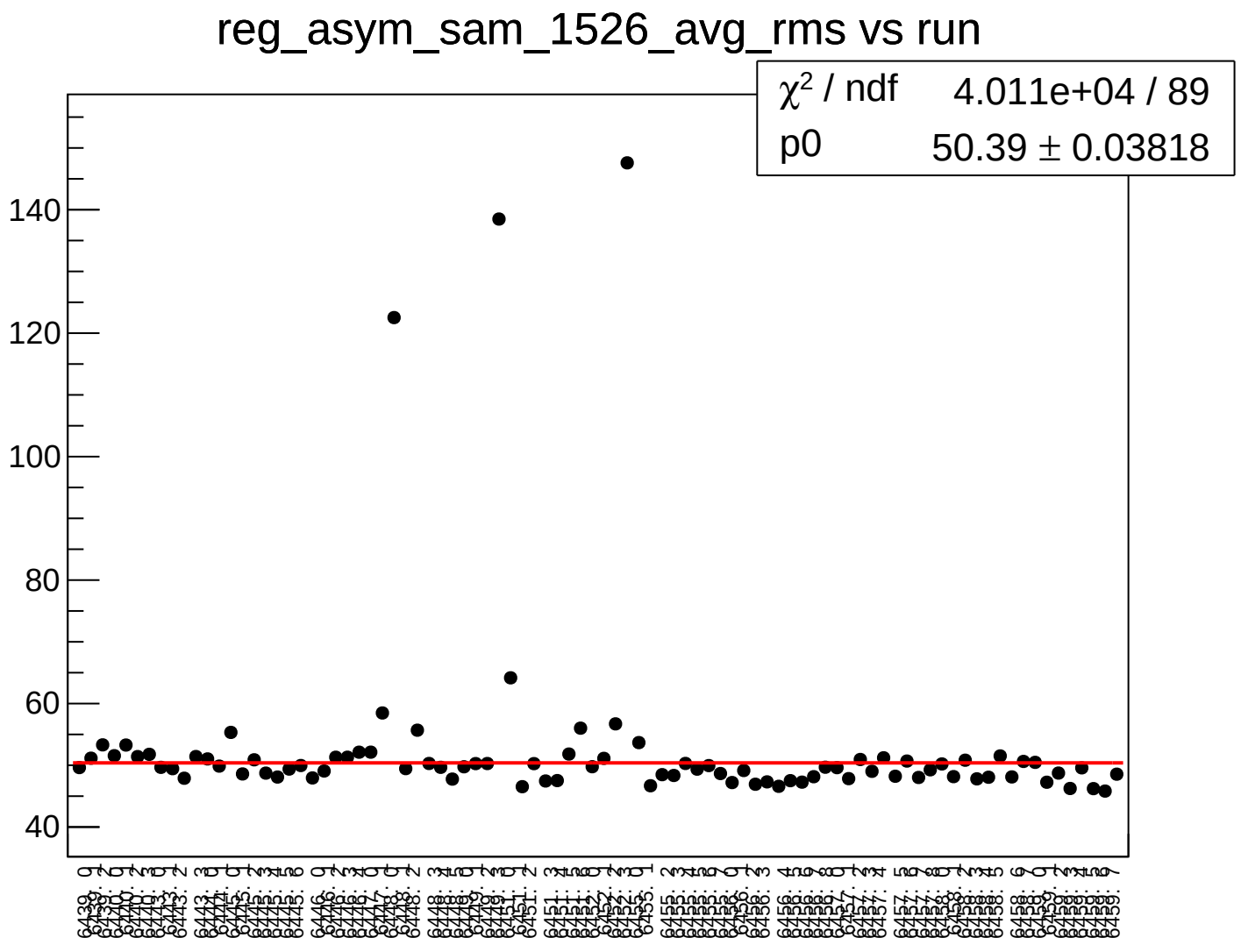

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.141e+04 / 89
p0 36.01 ± 0.02761
300
250
200
150
100
50

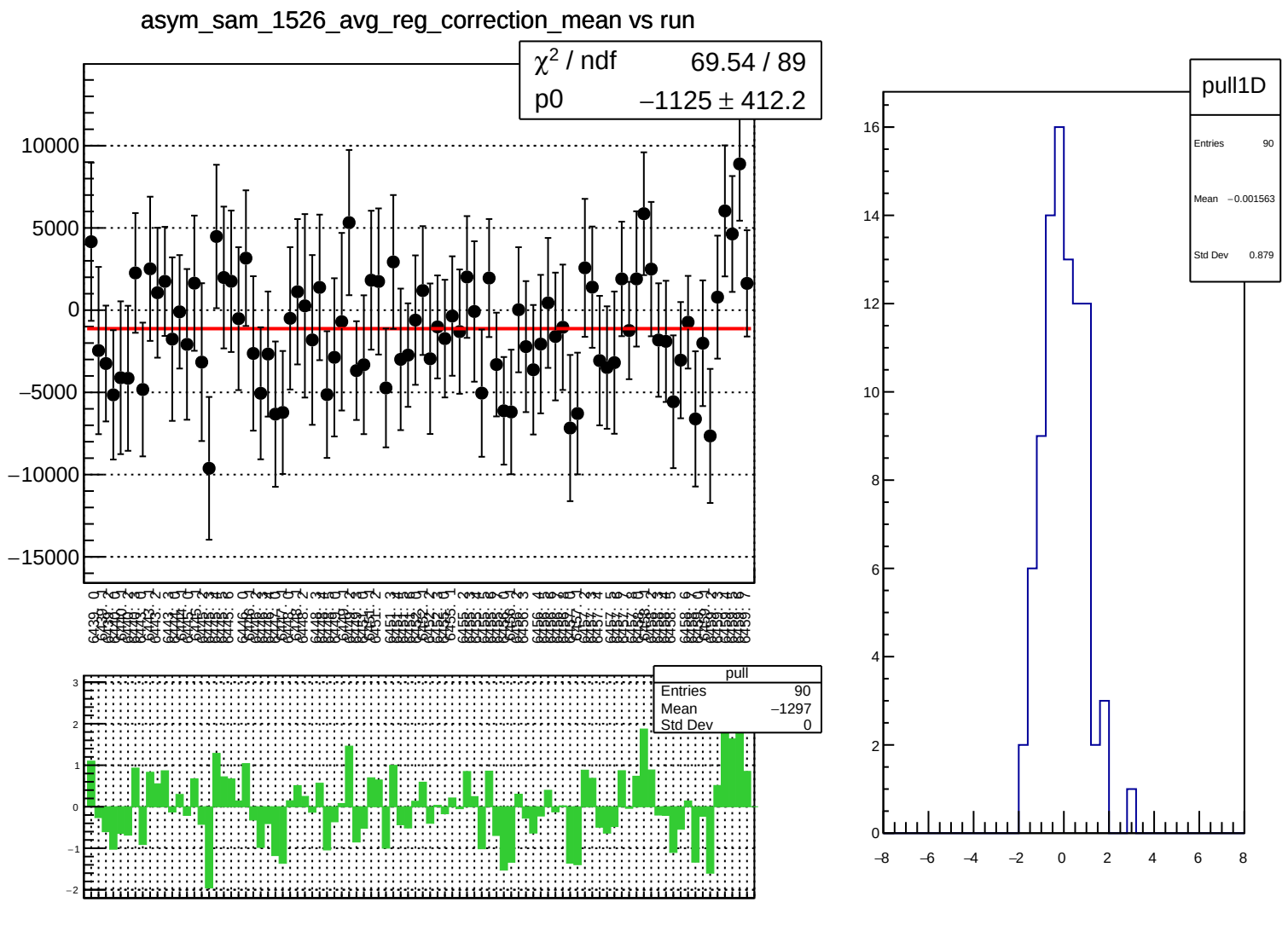

asym_sam_3748_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.68 / 89
p0 1.02e−14 ± 1.734e−14
pull
Entries 90
Mean 111.5
Std Dev 0
pull1D
Entries 90
Mean −0.03114
Std Dev 0.9164

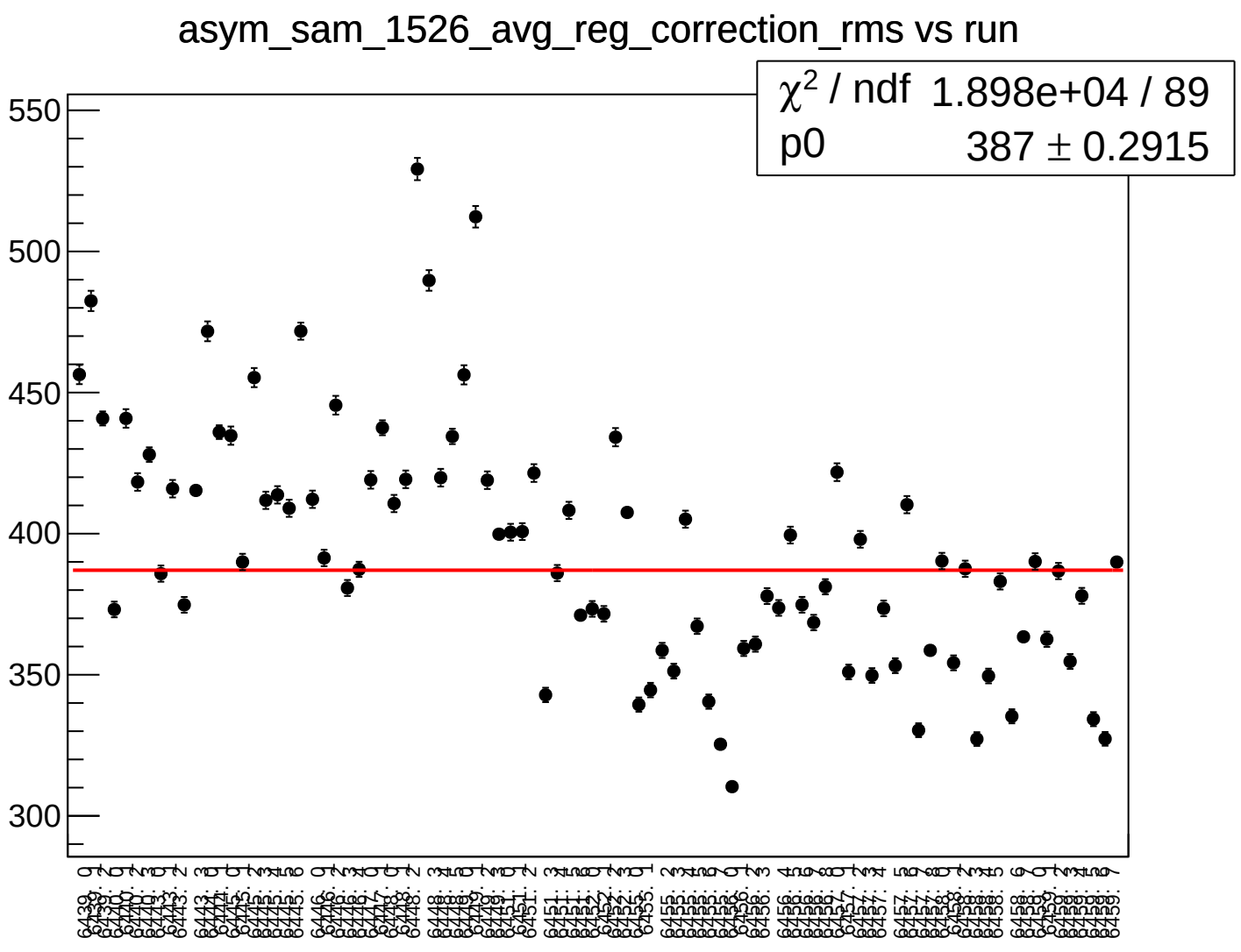

asym_sam_3748_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.14
0.12
0.1
0.08
0.06
0.04
0.02
χ² / ndf 9.041e+05 / 89
p0 1.149e−11 ± 1.226e−14

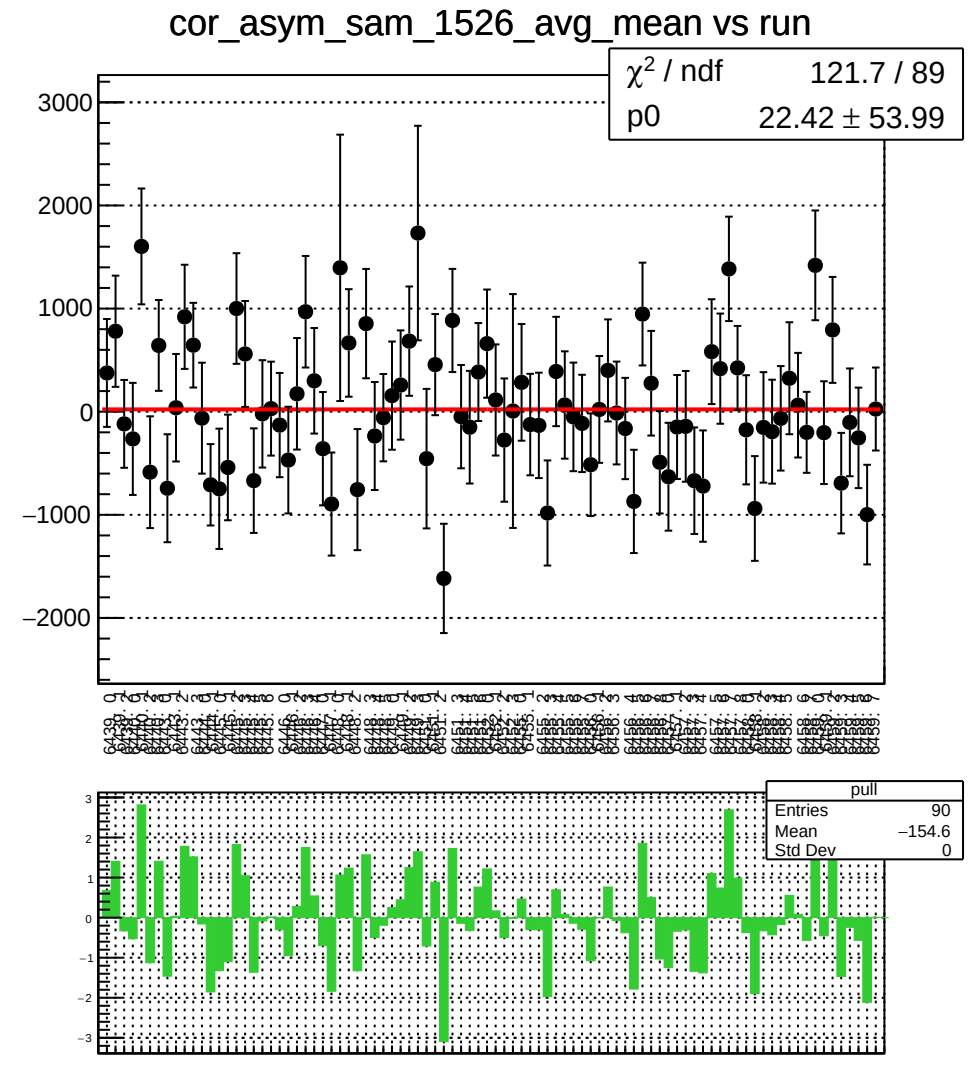

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 121.7 / 89
p0 22.42 ± 53.99
3000
2000
1000
0
−1000
−2000
pull
Entries 90
Mean −154.6
Std Dev 0
3
2
1
0
−1
−2
−3

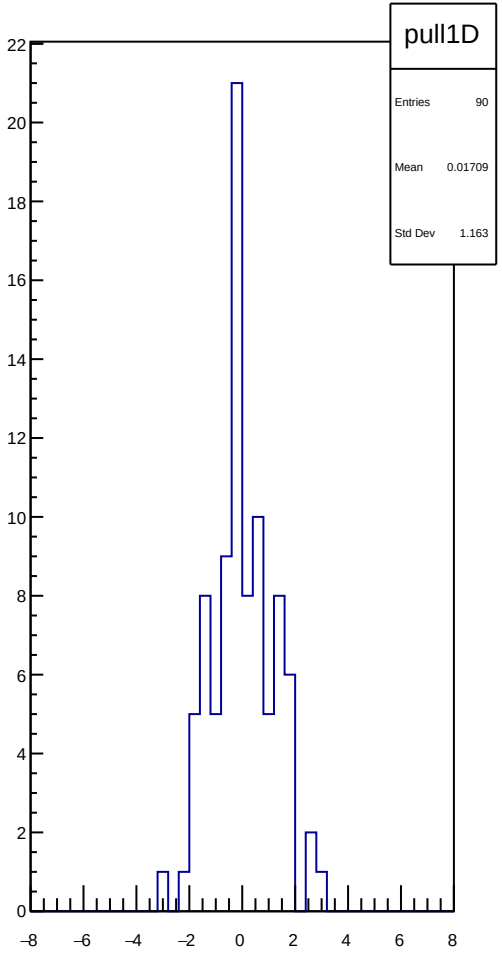

pull1D
Entries 90
Mean 0.01709
Std Dev 1.163
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

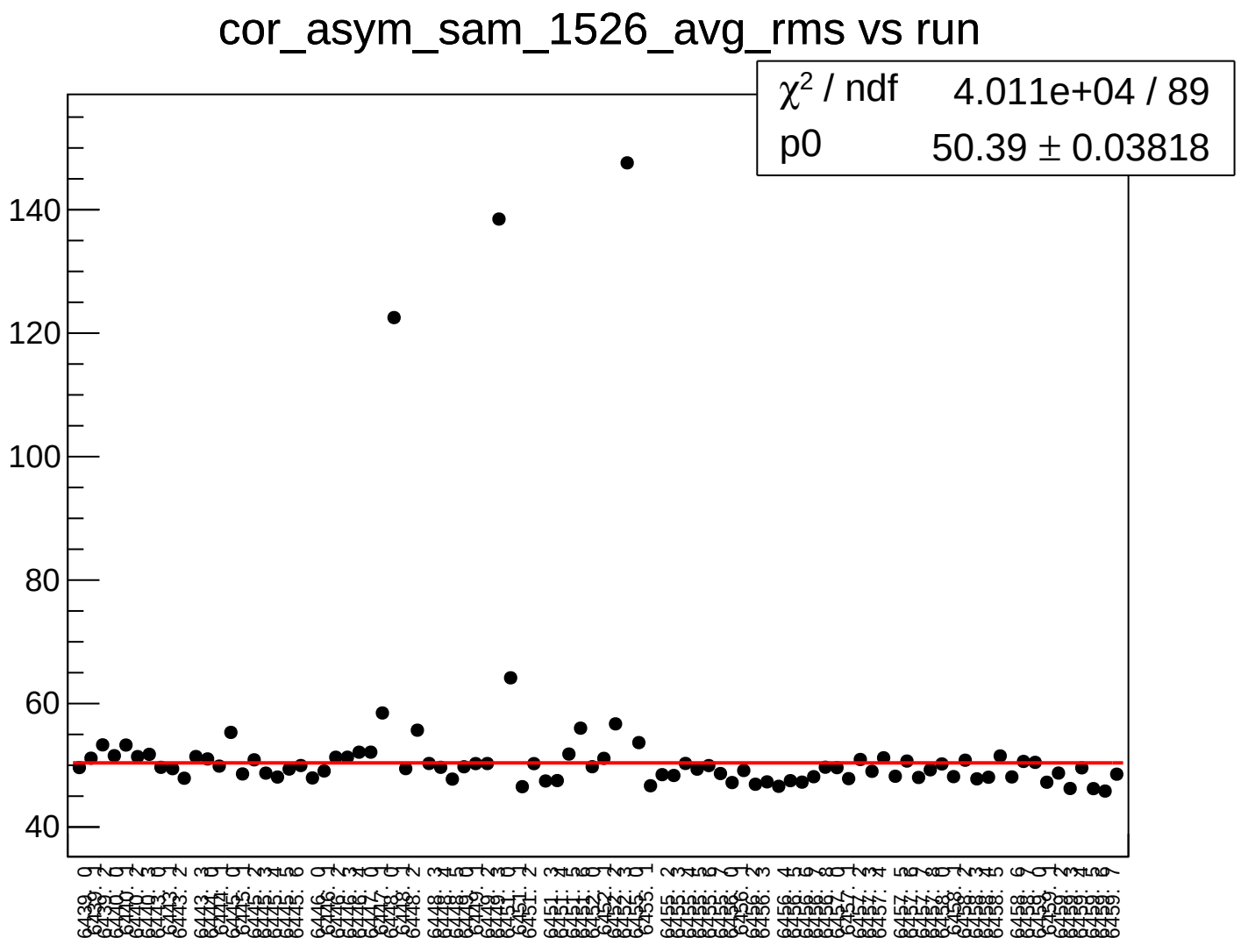

reg_asym_sam_1526_avg_rms vs run
χ^2 / ndf 4.011e+04 / 89
p0 50.39 ± 0.03818
140
120
100
80
60
40

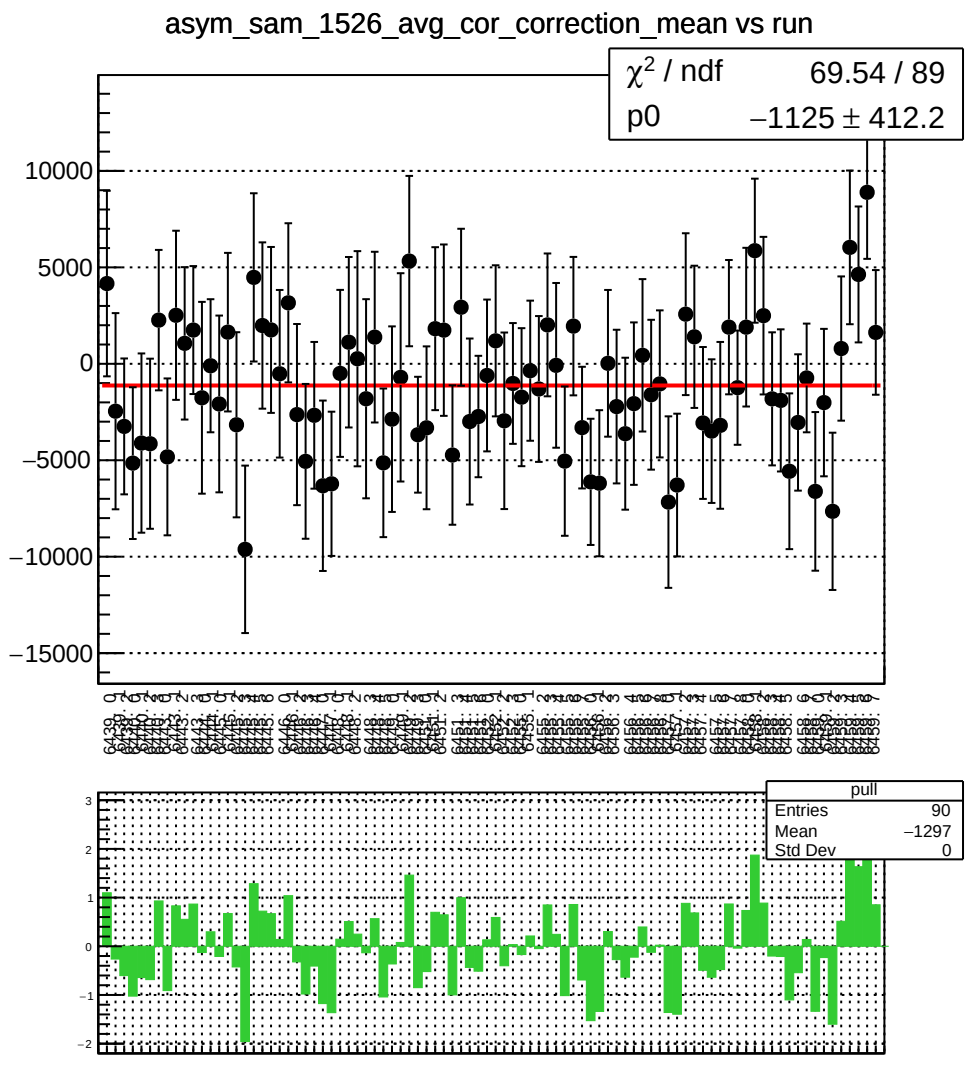

asym_sam_1526_avg_reg_correction_mean vs run
χ² / ndf 69.54 / 89
p0 −1125 ± 412.2
10000
5000
0
−5000
−10000
−15000
pull
Entries 90
Mean −1297
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.001563
Std Dev 0.879
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

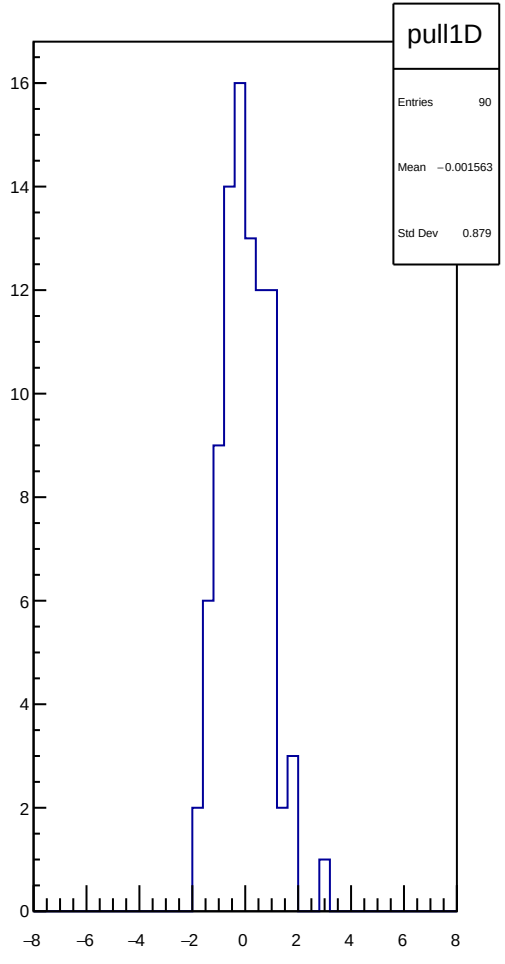

asym_sam_1526_avg_reg_correction_rms vs run
χ² / ndf 1.898e+04 / 89
p0 387 ± 0.2915
550
500
450
400
350
300

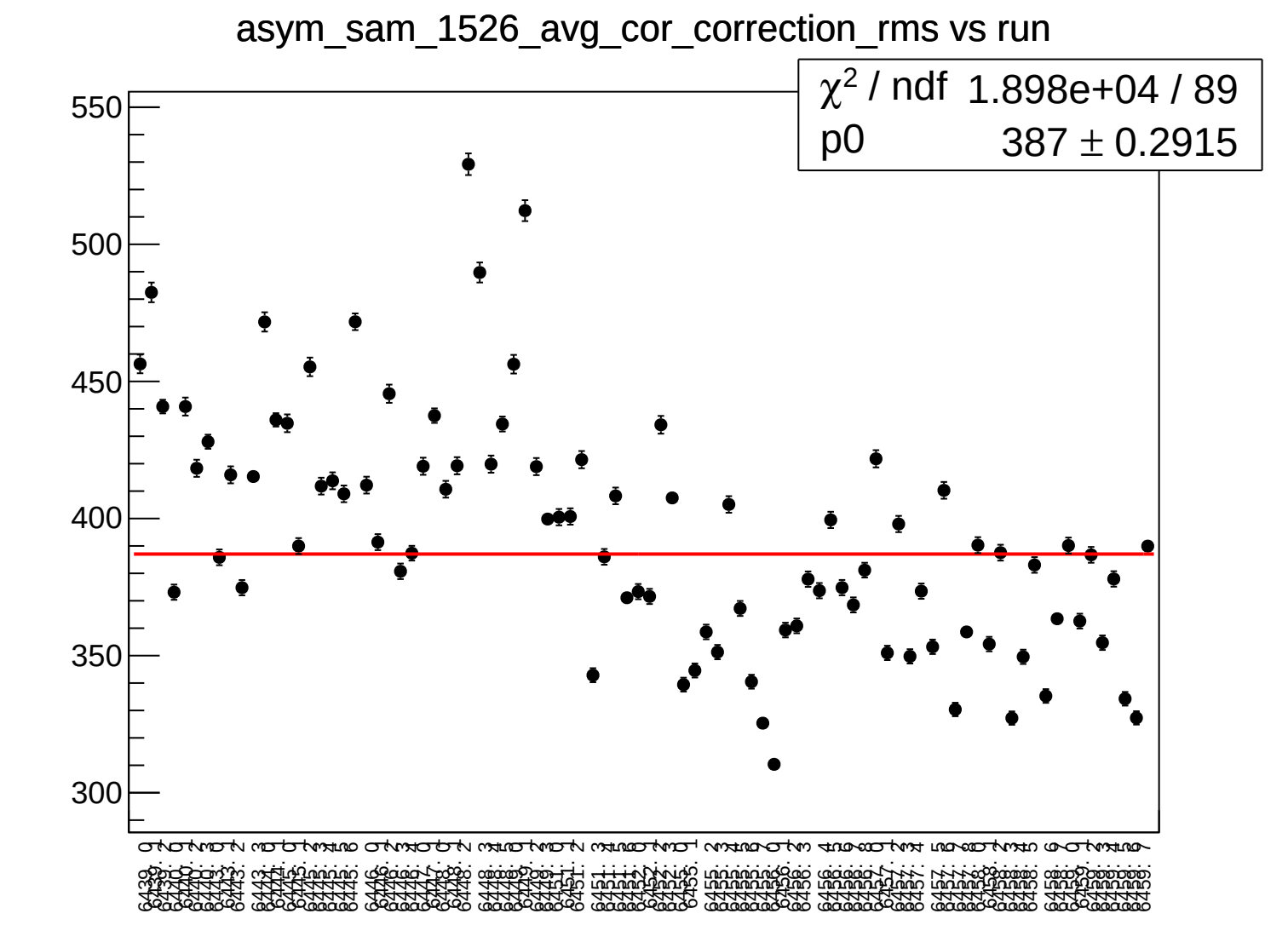

cor_asym_sam_1526_avg_mean vs run
χ² / ndf 121.7 / 89
p0 22.42 ± 53.99
3000
2000
1000
0
−1000
−2000
pull
Entries 90
Mean −154.6
Std Dev 0
3
2
1
0
−1
−2
−3

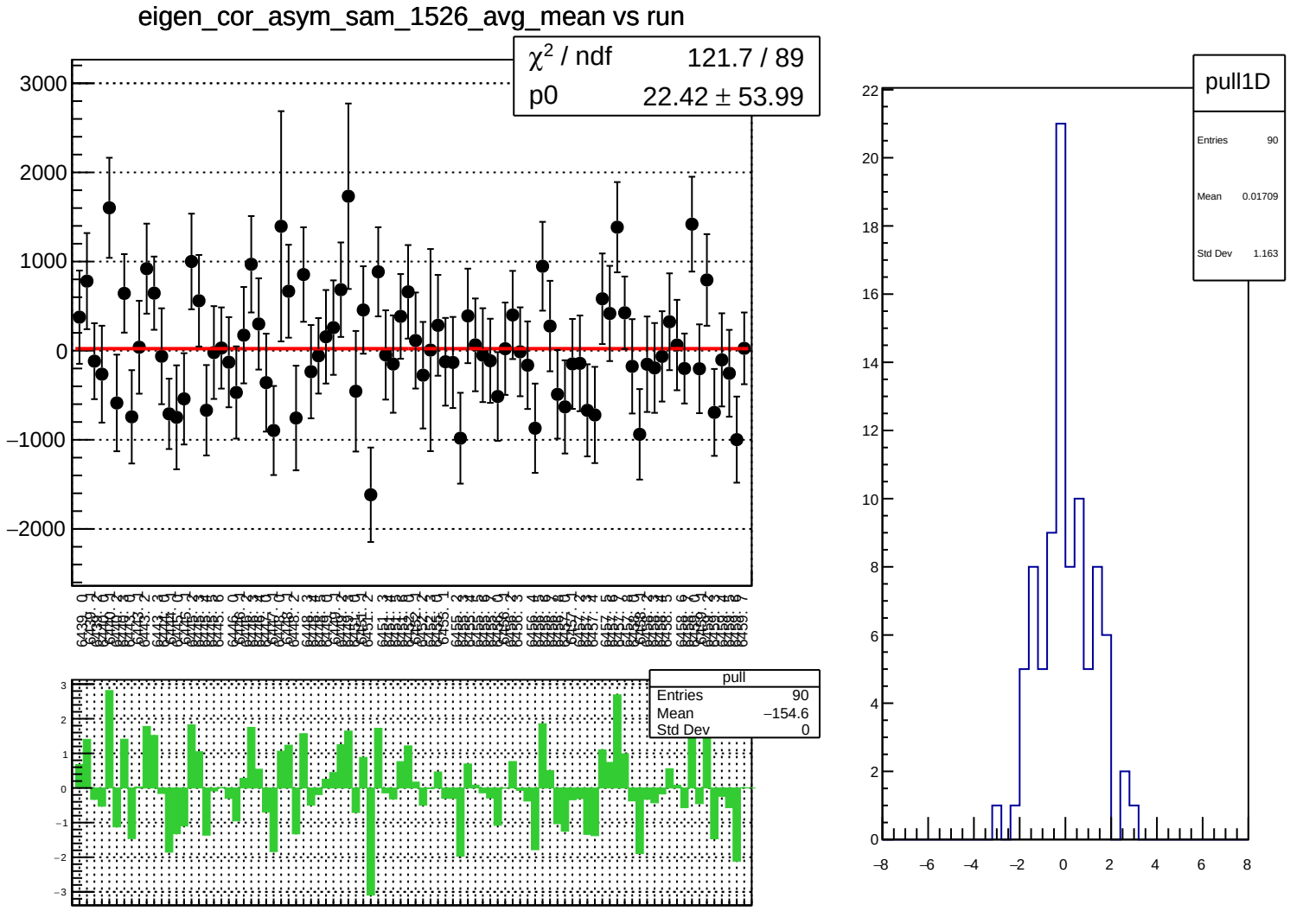

pull1D
Entries 90
Mean 0.01709
Std Dev 1.163
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

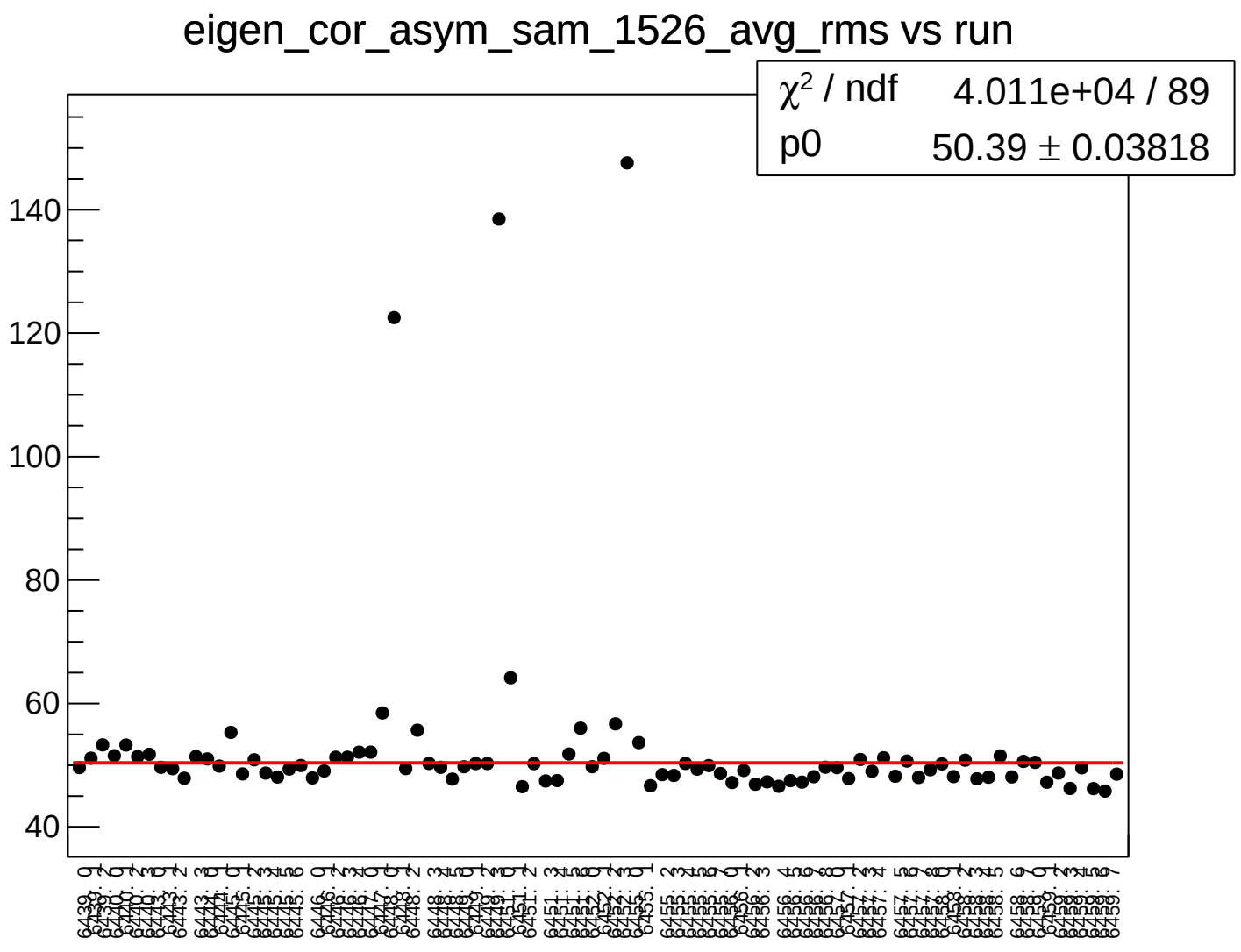

cor_asym_sam_1526_avg_rms vs run
χ² / ndf 4.011e+04 / 89
p0 50.39 ± 0.03818
140
120
100
80
60
40

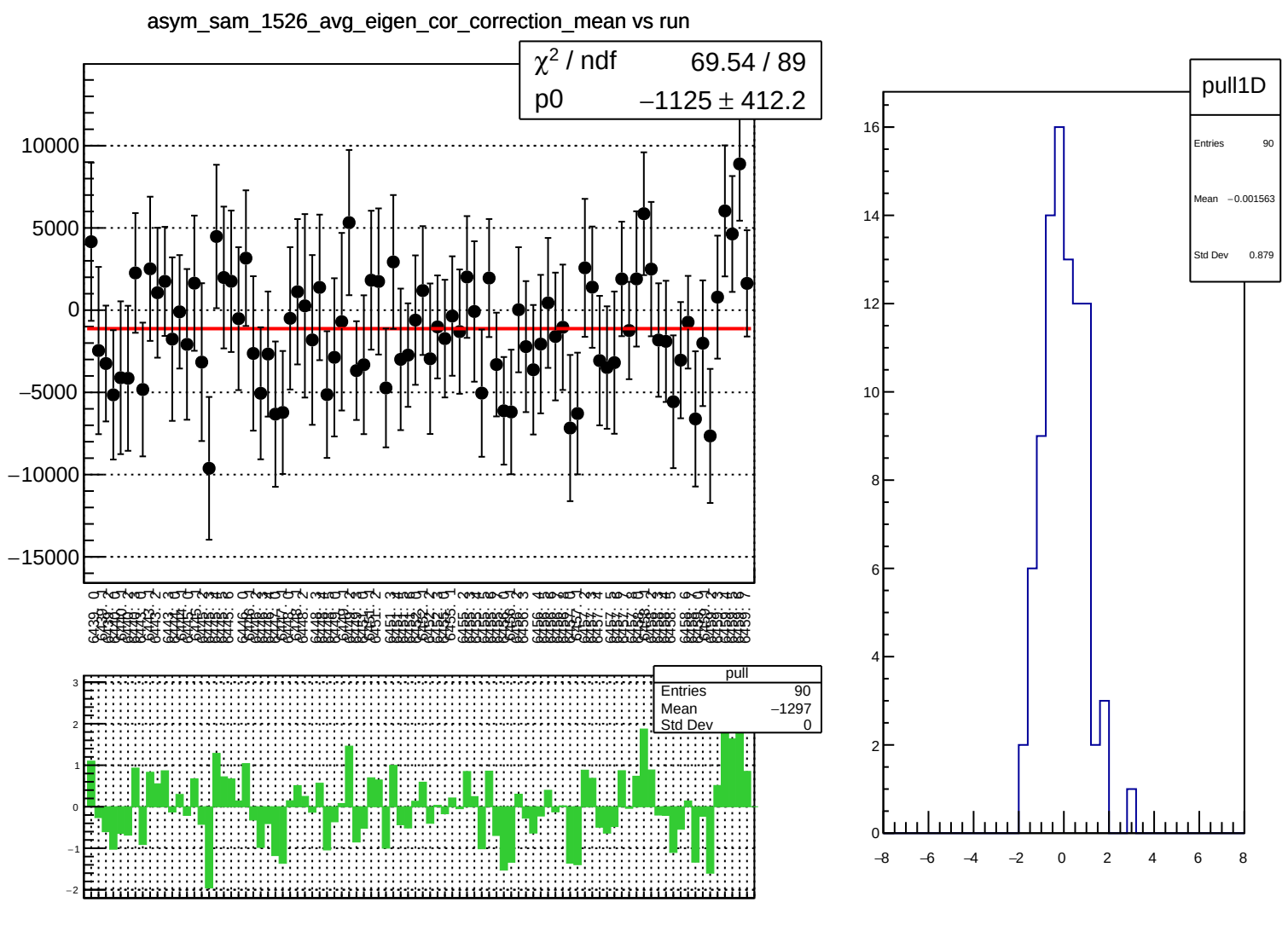

asym_sam_1526_avg_cor_correction_mean vs run
χ² / ndf 69.54 / 89
p0 −1125 ± 412.2
10000
5000
0
−5000
−10000
−15000
pull
Entries 90
Mean −1297
Std Dev 0
3
2
1
0
−1
−2

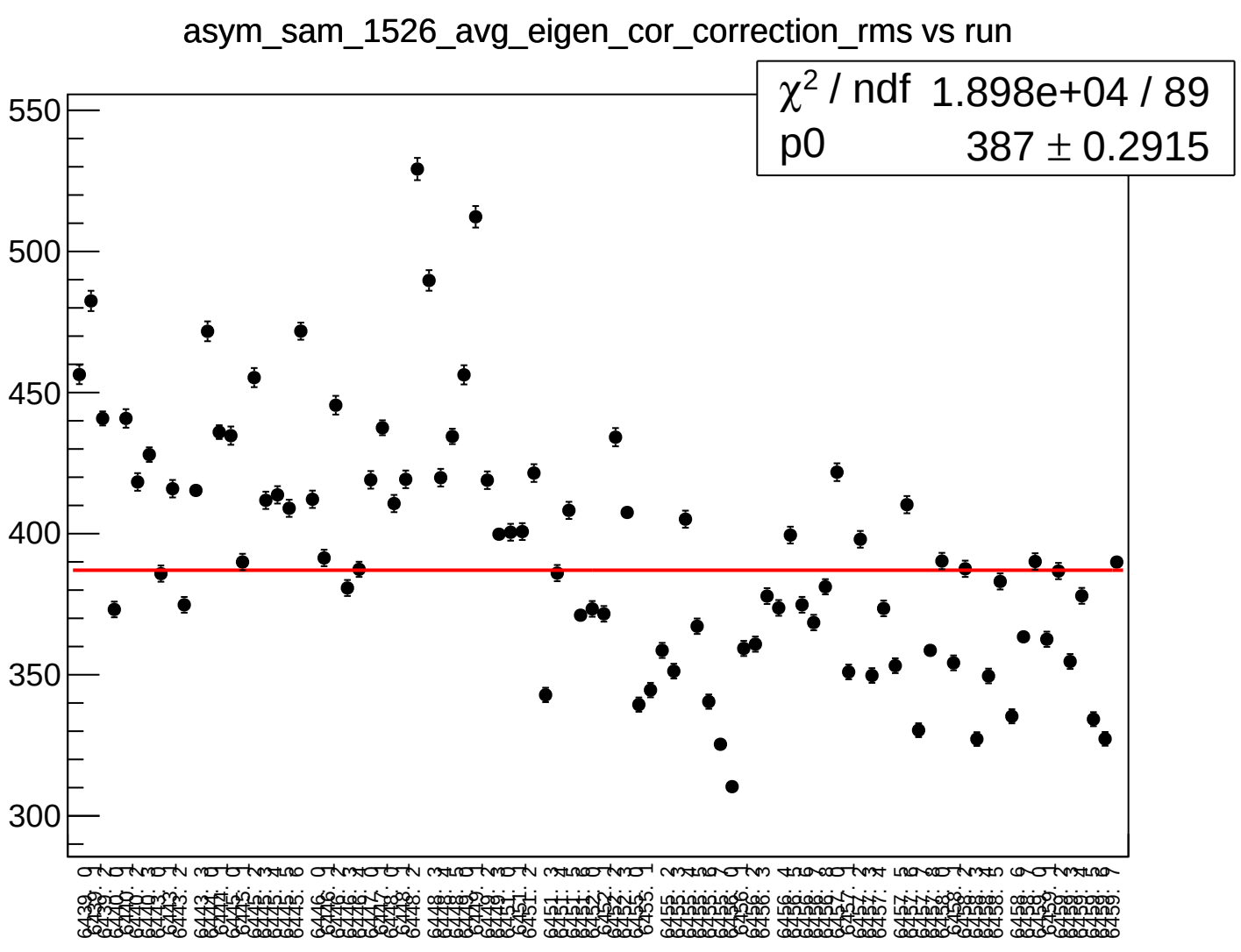

pull1D
Entries 90
Mean −0.001563
Std Dev 0.879
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

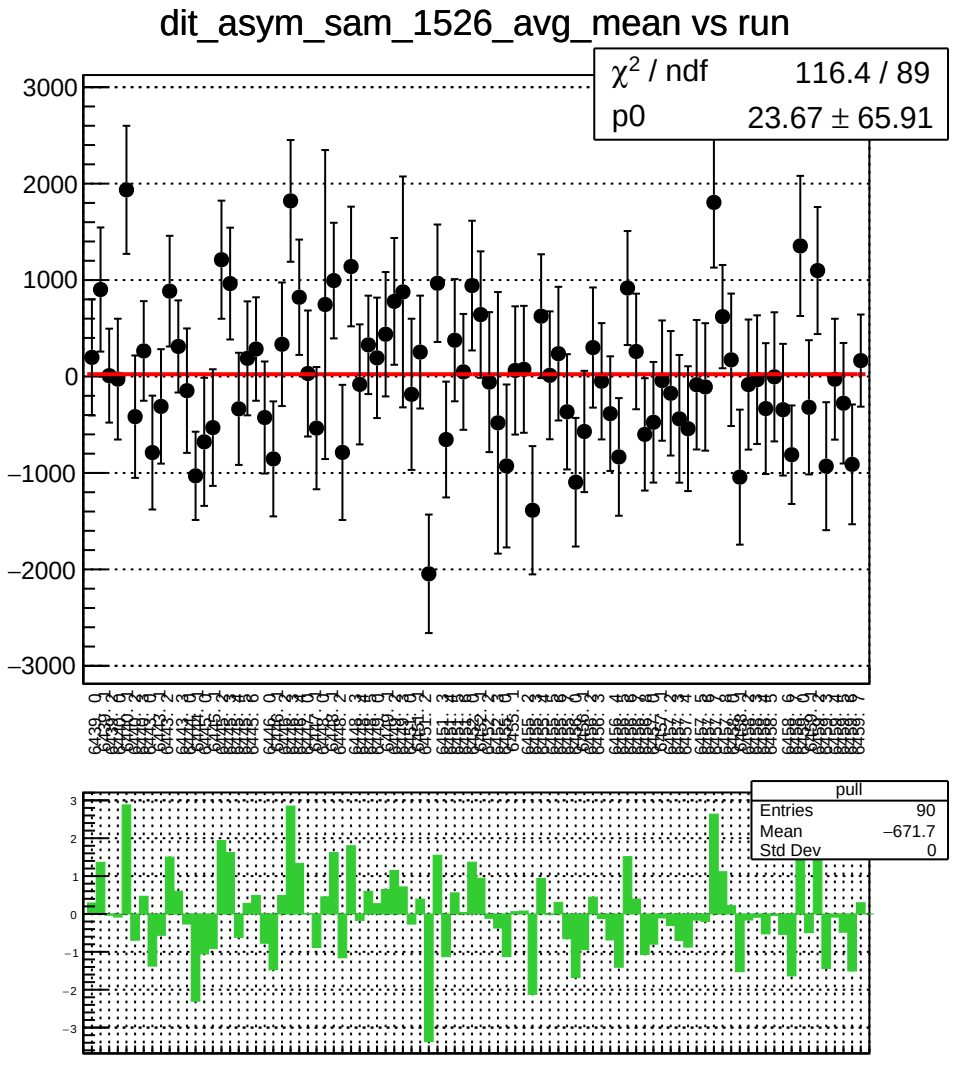

asym_sam_1526_avg_cor_correction_rms vs run
χ² / ndf 1.898e+04 / 89
p0 387 ± 0.2915
550
500
450
400
350
300

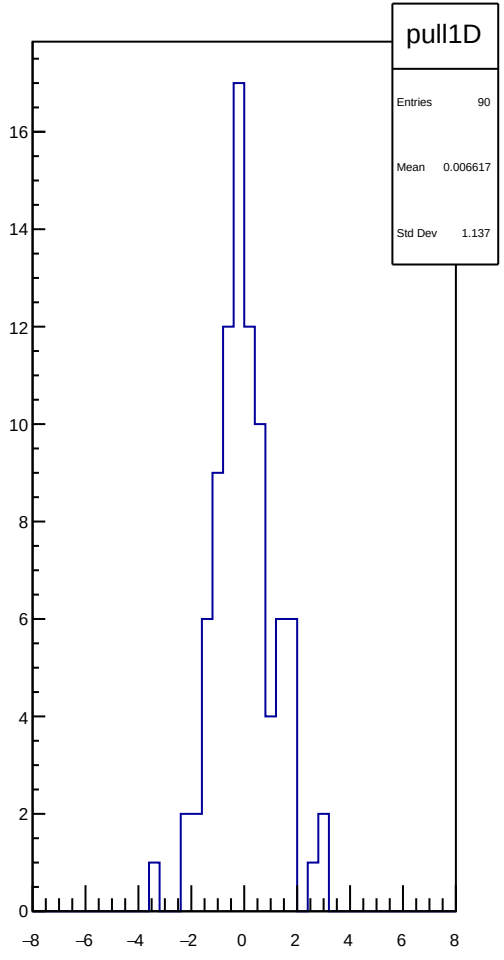

eigen_cor_asym_sam_1526_avg_mean vs run
χ^2 / ndf 121.7 / 89
p0 22.42 ± 53.99
3000
2000
1000
0
−1000
−2000
pull
Entries 90
Mean −154.6
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 90
Mean 0.01709
Std Dev 1.163
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

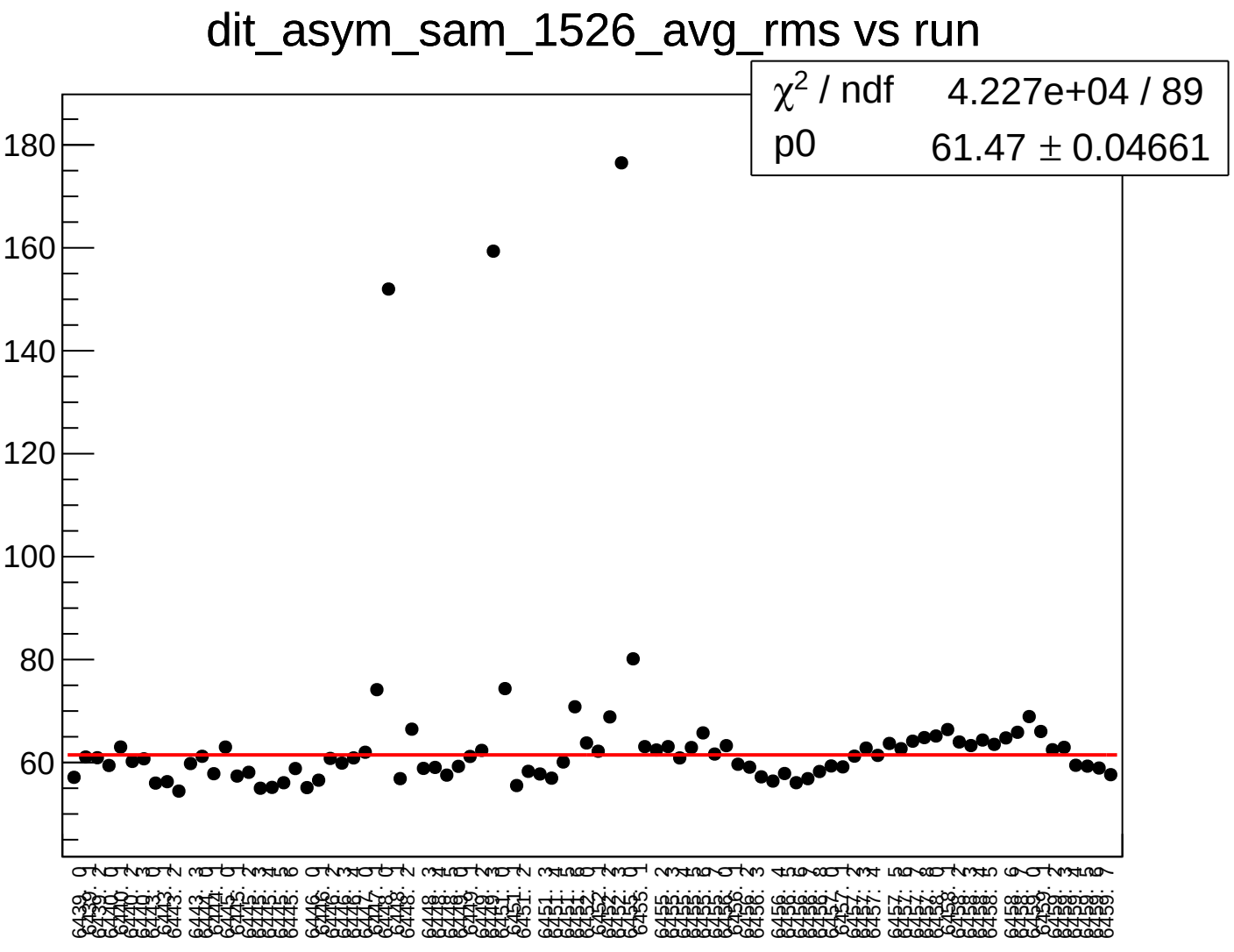

eigen_cor_asym_sam_1526_avg_rms vs run
χ² / ndf 4.011e+04 / 89
p0 50.39 ± 0.03818
140
120
100
80
60
40

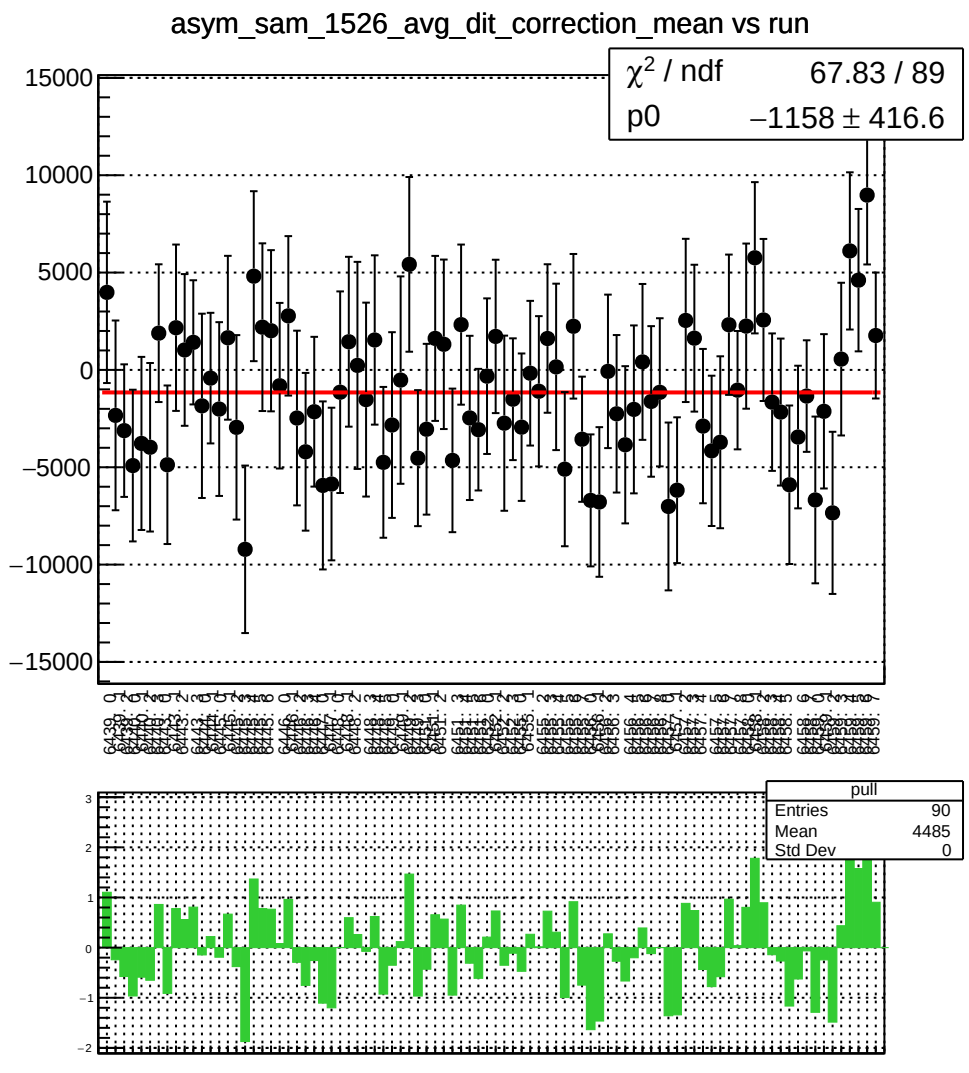

asym_sam_1526_avg_eigen_cor_correction_mean vs run
χ² / ndf 69.54 / 89
p0 −1125 ± 412.2
10000
5000
0
−5000
−10000
−15000
pull
Entries 90
Mean −1297
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.001563
Std Dev 0.879
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

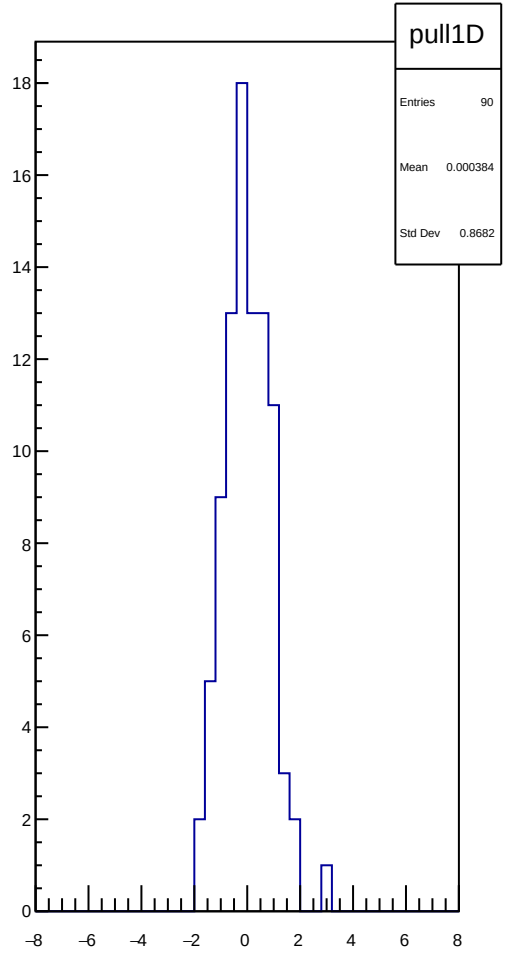

asym_sam_1526_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.898e+04 / 89
p0 387 ± 0.2915
550
500
450
400
350
300

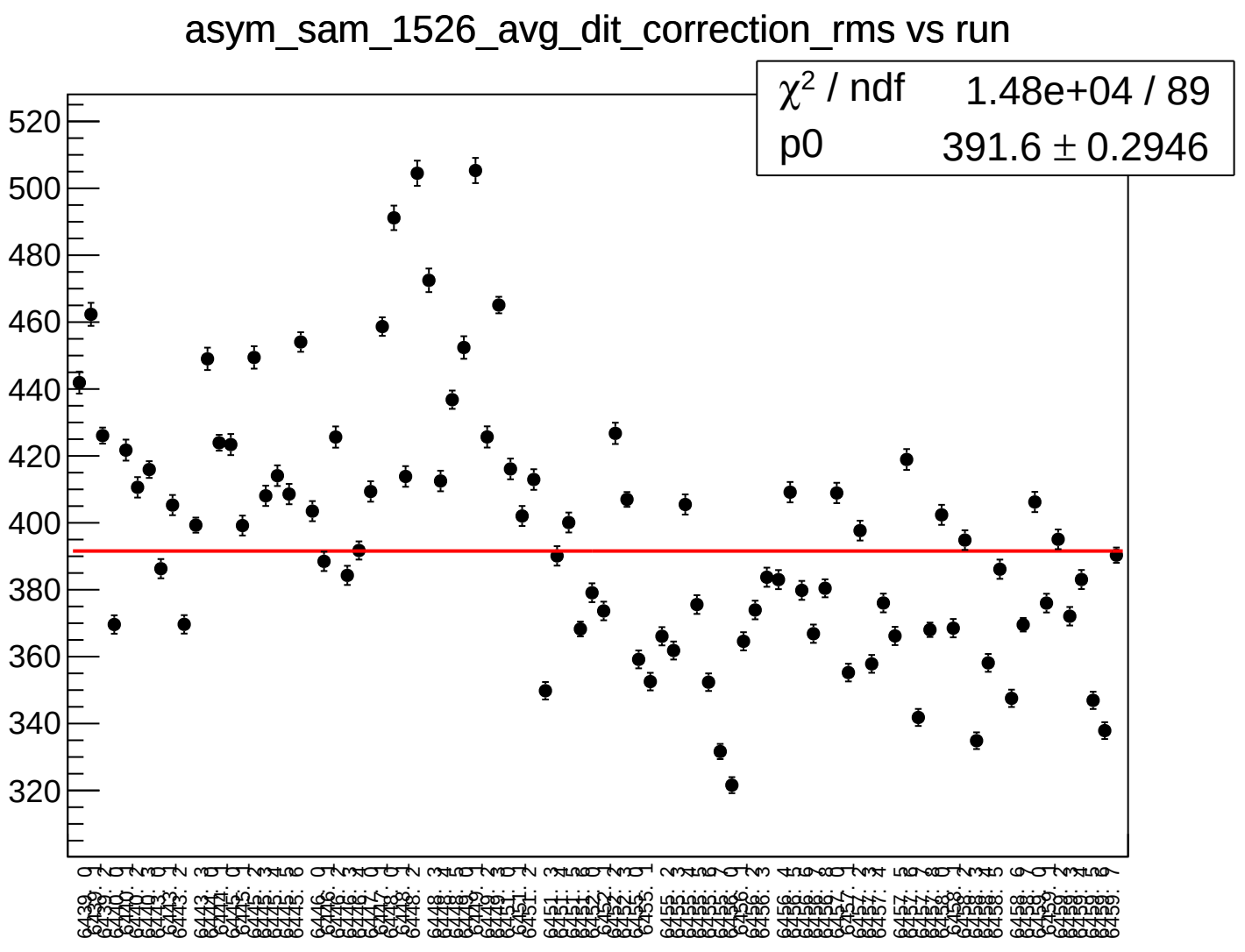

dit_asym_sam_1526_avg_mean vs run
χ² / ndf 116.4 / 89
p0 23.67 ± 65.91
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 90
Mean −671.7
Std Dev 0
3
2
1
0
−1
−2
−3

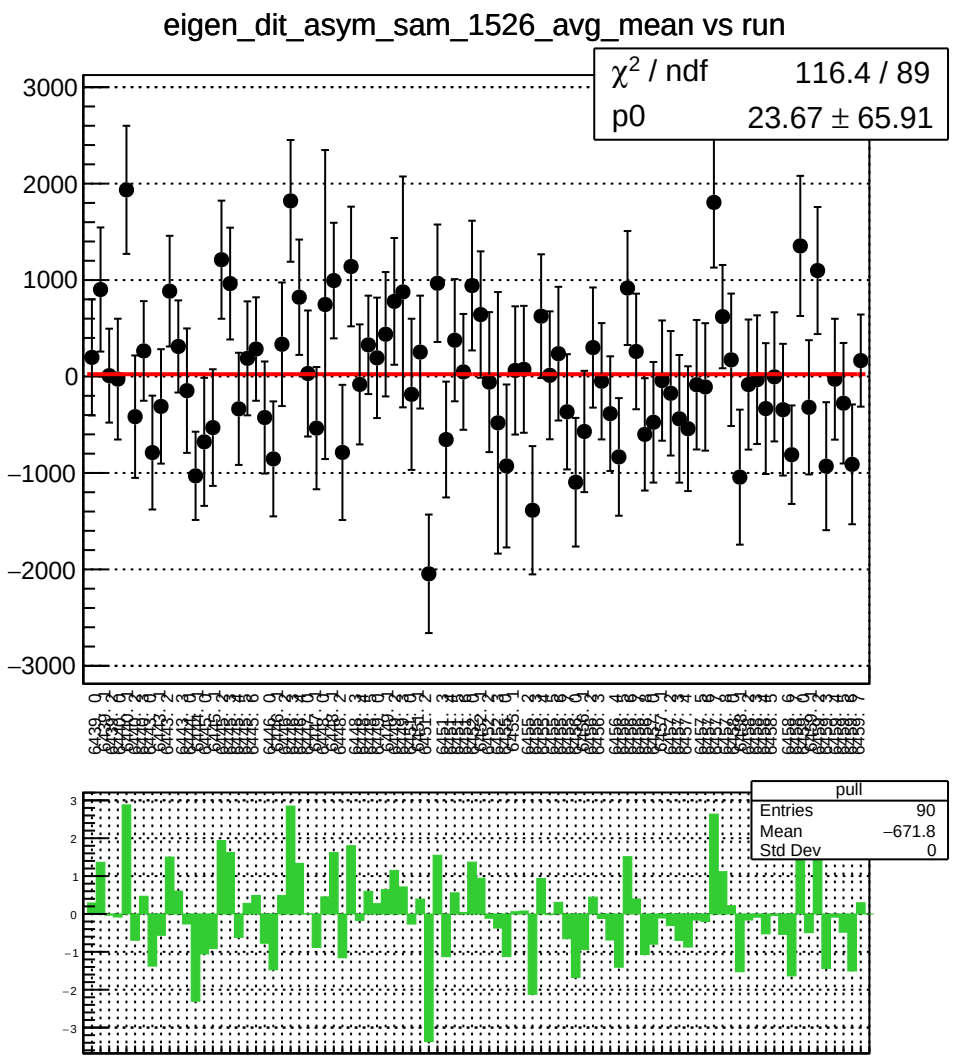

pull1D
Entries 90
Mean 0.006617
Std Dev 1.137
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

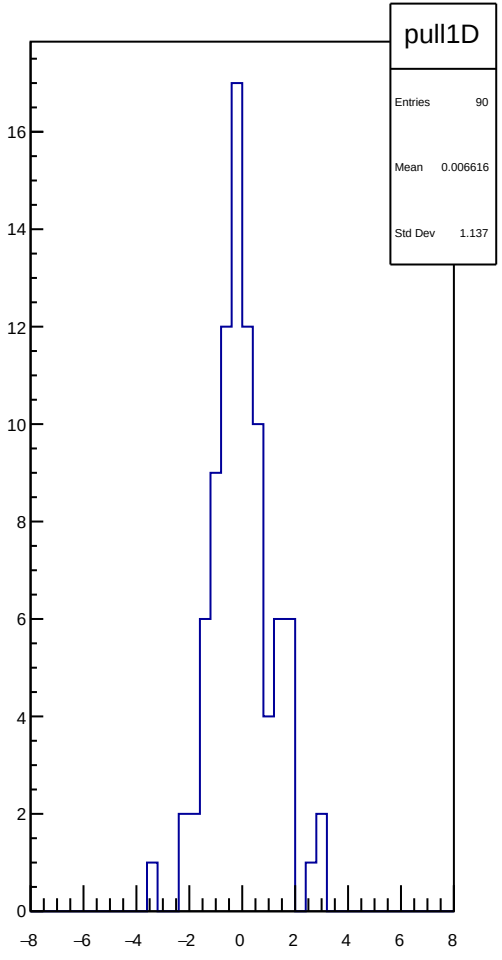

dit_asym_sam_1526_avg_rms vs run
χ^2 / ndf 4.227e+04 / 89
p0 61.47 ± 0.04661
180
160
140
120
100
80
60

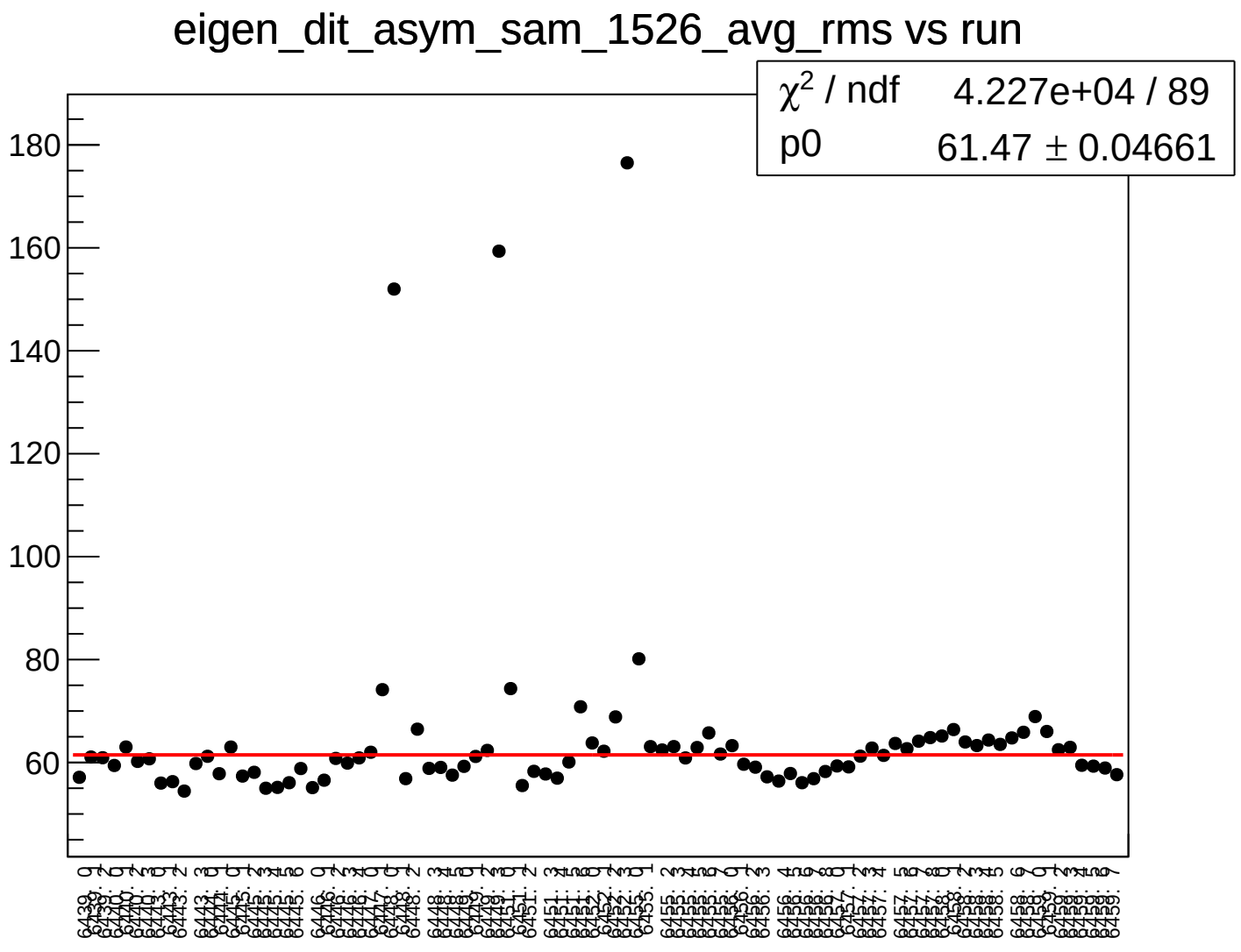

asym_sam_1526_avg_dit_correction_mean vs run
χ² / ndf 67.83 / 89
p0 −1158 ± 416.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 90
Mean 4485
Std Dev 0
3
2
1
0
−1
−2

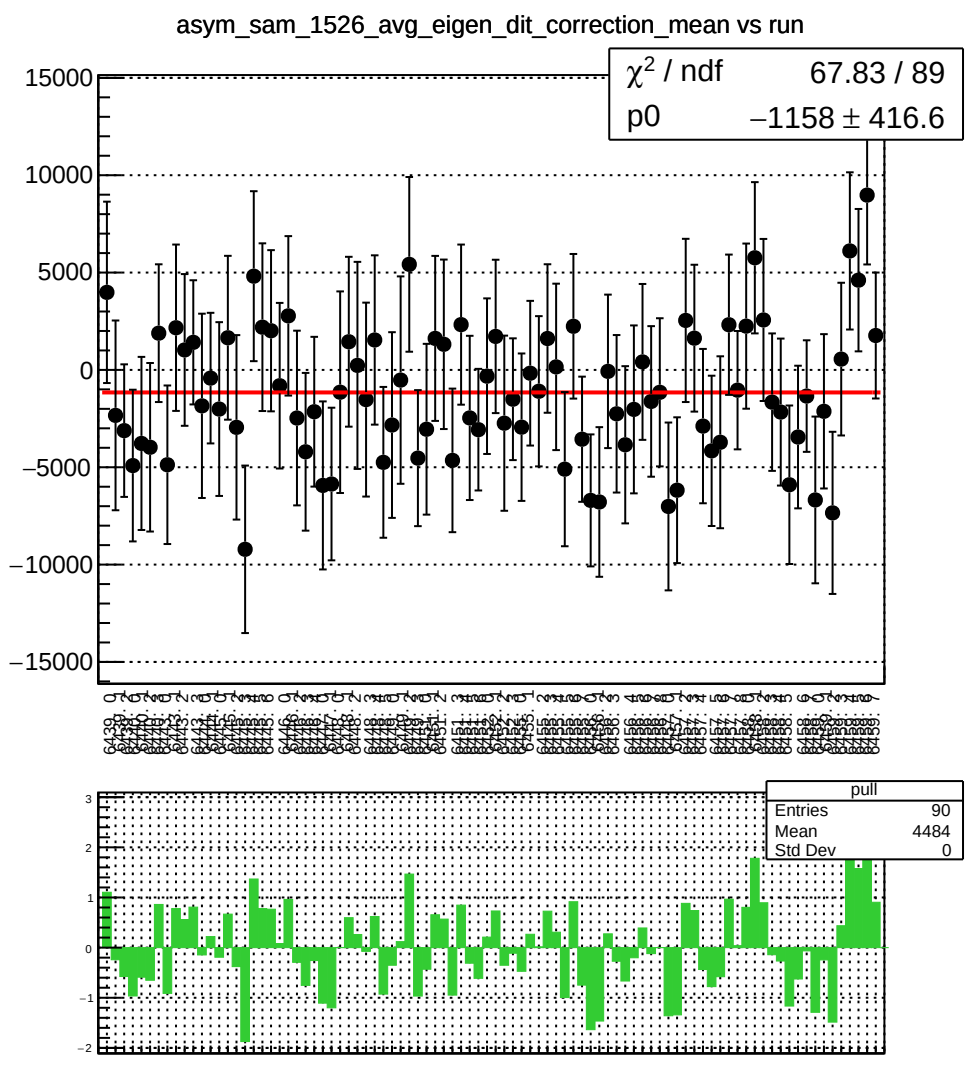

pull1D
Entries 90
Mean 0.000384
Std Dev 0.8682
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

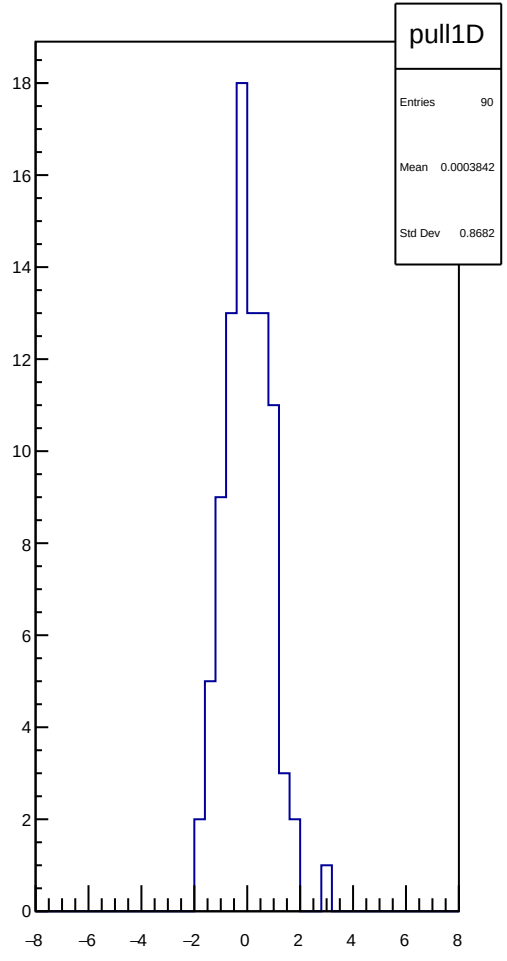

asym_sam_1526_avg_dit_correction_rms vs run
χ² / ndf 1.48e+04 / 89
p0 391.6 ± 0.2946
520
500
480
460
440
420
400
380
360
340
320

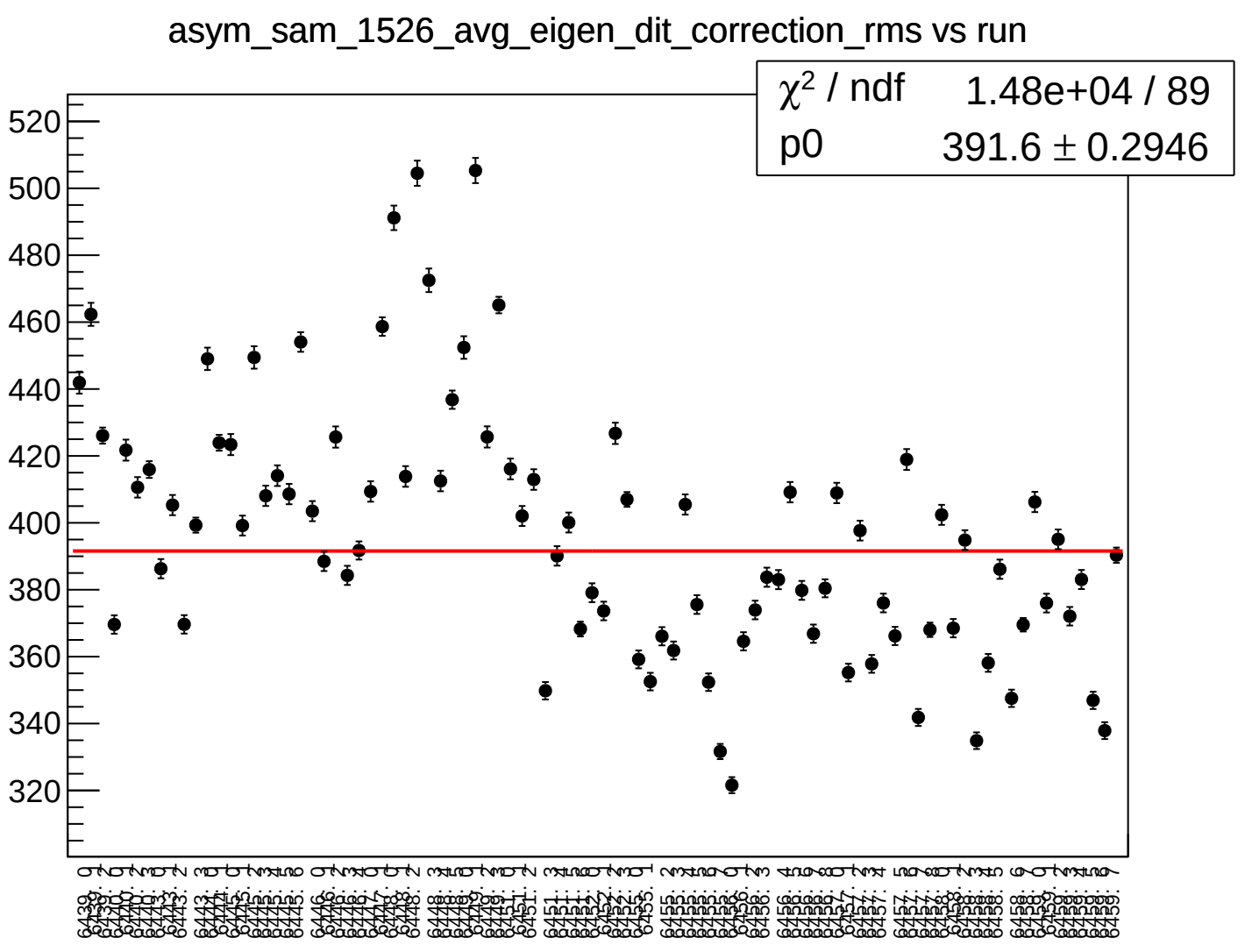

eigen_dit_asym_sam_1526_avg_mean vs run
χ^2 / ndf 116.4 / 89
p0 23.67 ± 65.91
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 90
Mean −671.8
Std Dev 0
3
2
1
0
−1
−2
−3

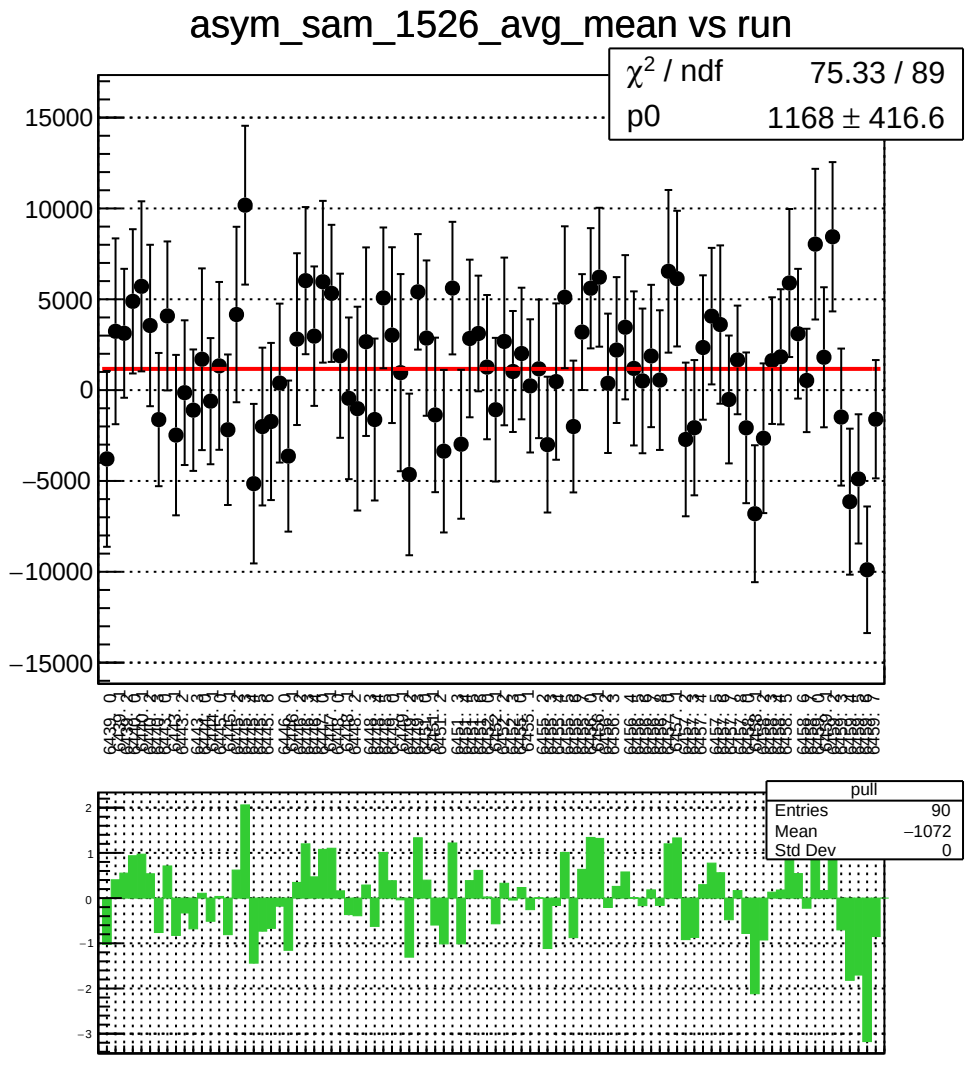

pull1D
Entries 90
Mean 0.006616
Std Dev 1.137
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

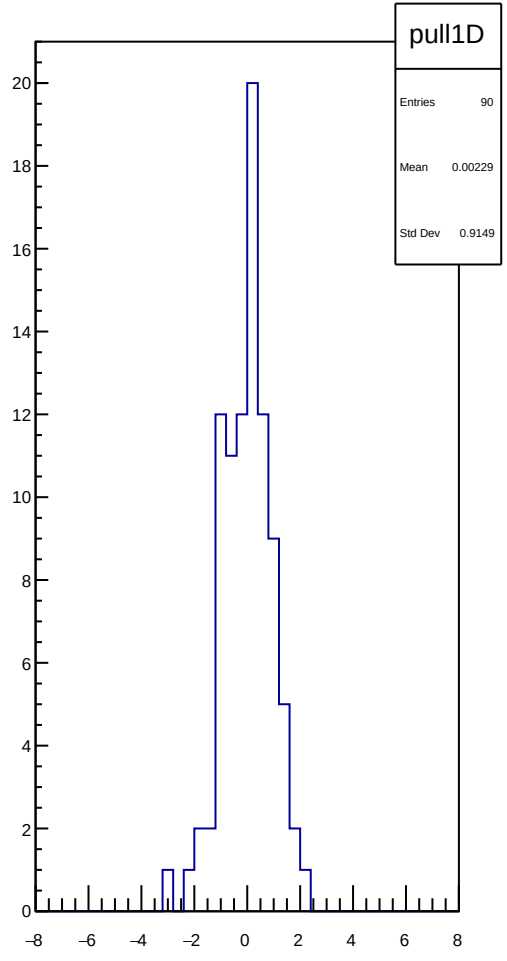

eigen_dit_asym_sam_1526_avg_rms vs run
χ^2 / ndf 4.227e+04 / 89
p0 61.47 ± 0.04661
180
160
140
120
100
80
60

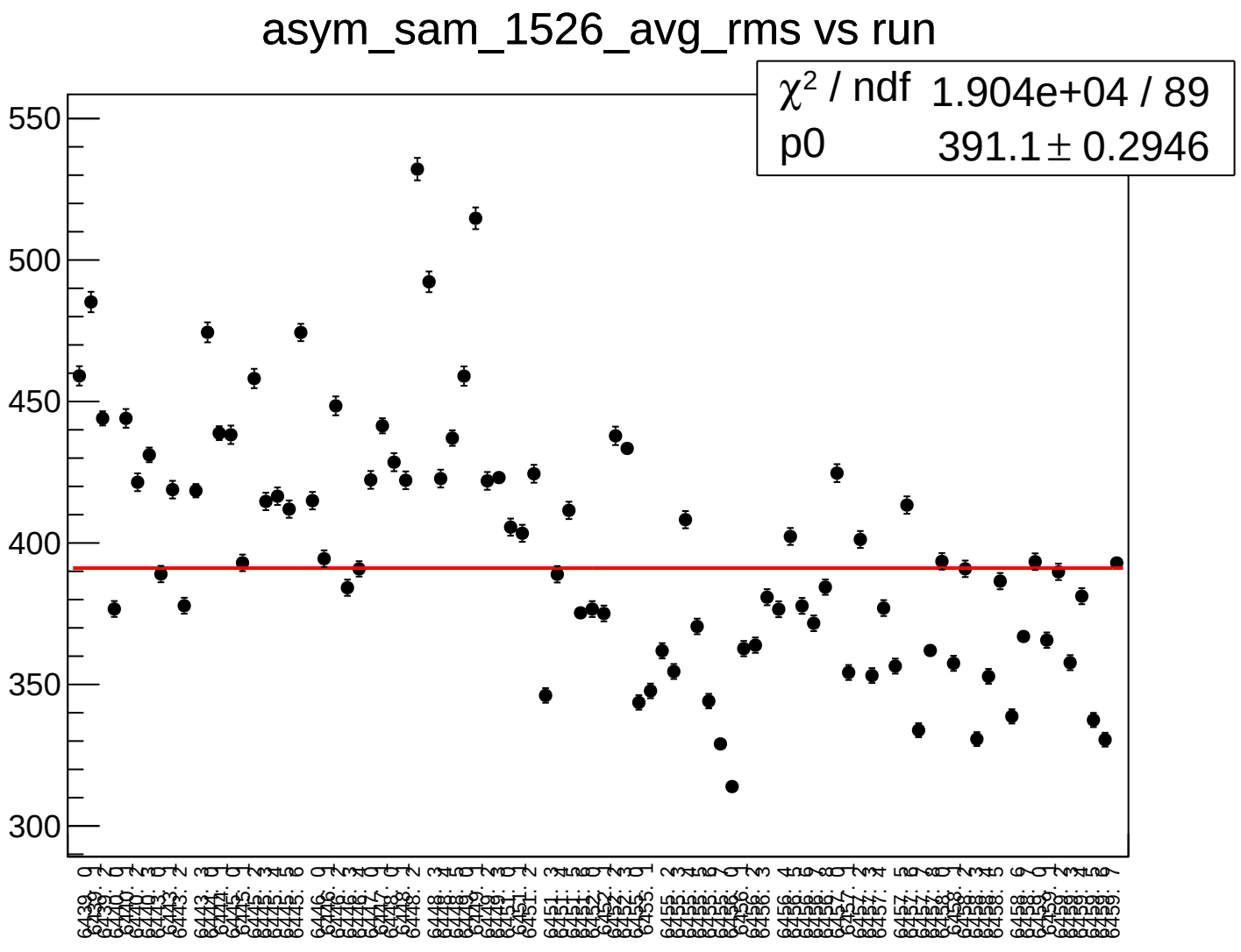

asym_sam_1526_avg_eigen_dit_correction_mean vs run
χ² / ndf 67.83 / 89
p0 −1158 ± 416.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 90
Mean 4484
Std Dev 0
3
2
1
0
−1
−2

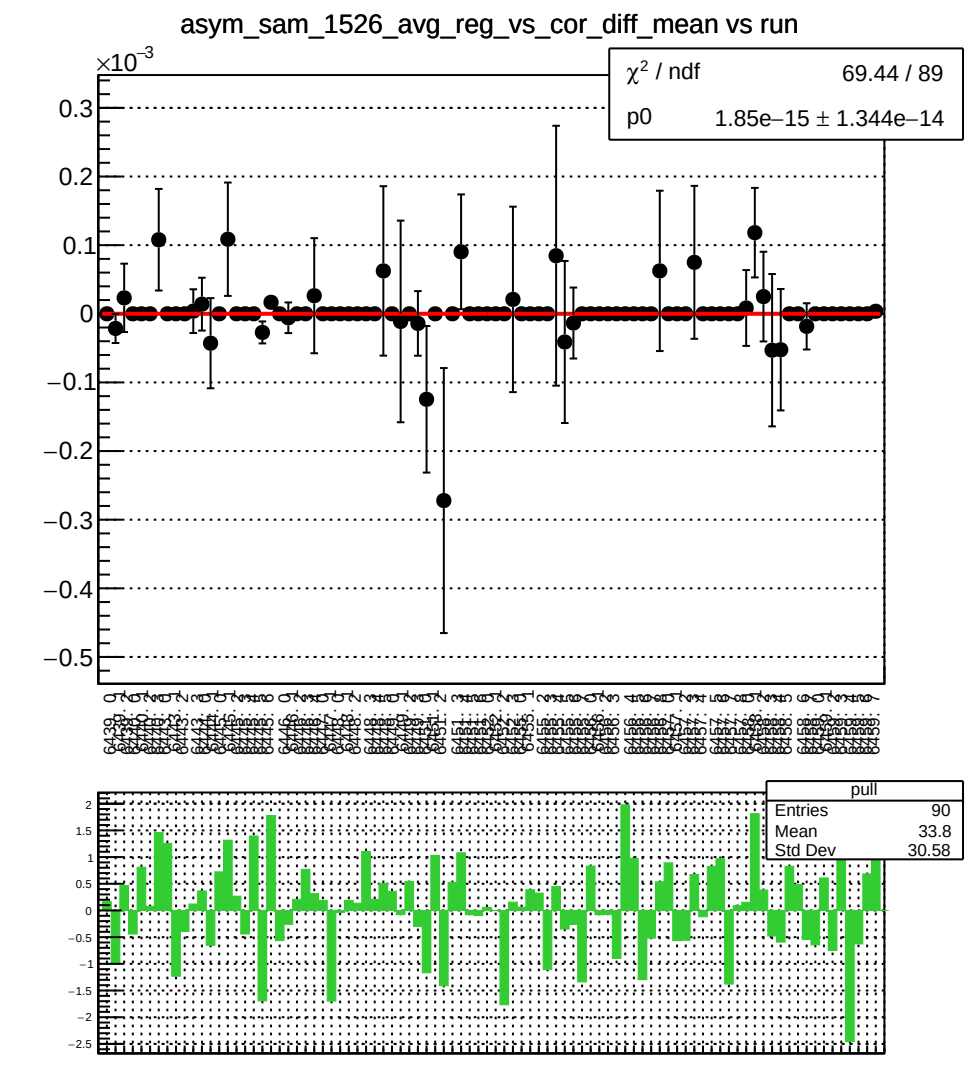

pull1D
Entries 90
Mean 0.0003842
Std Dev 0.8682
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

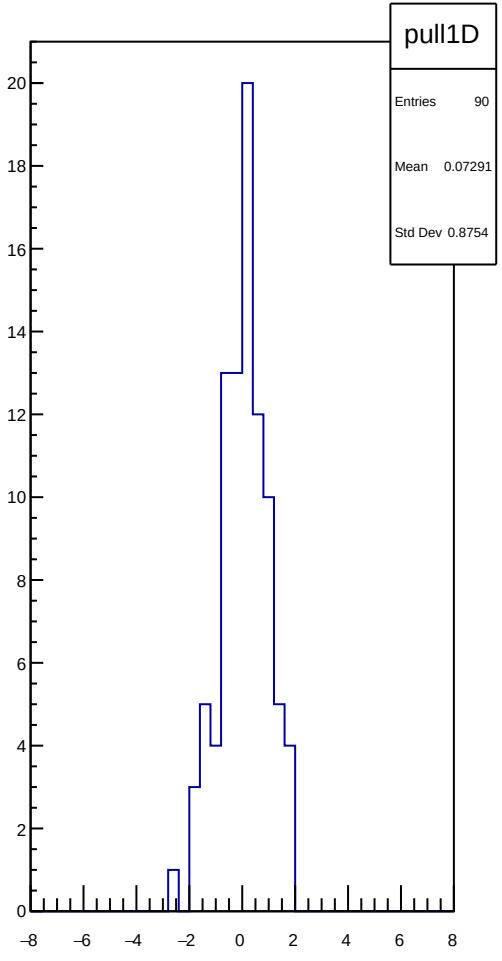

asym_sam_1526_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.48e+04 / 89
p0 391.6 ± 0.2946
520
500
480
460
440
420
400
380
360
340
320

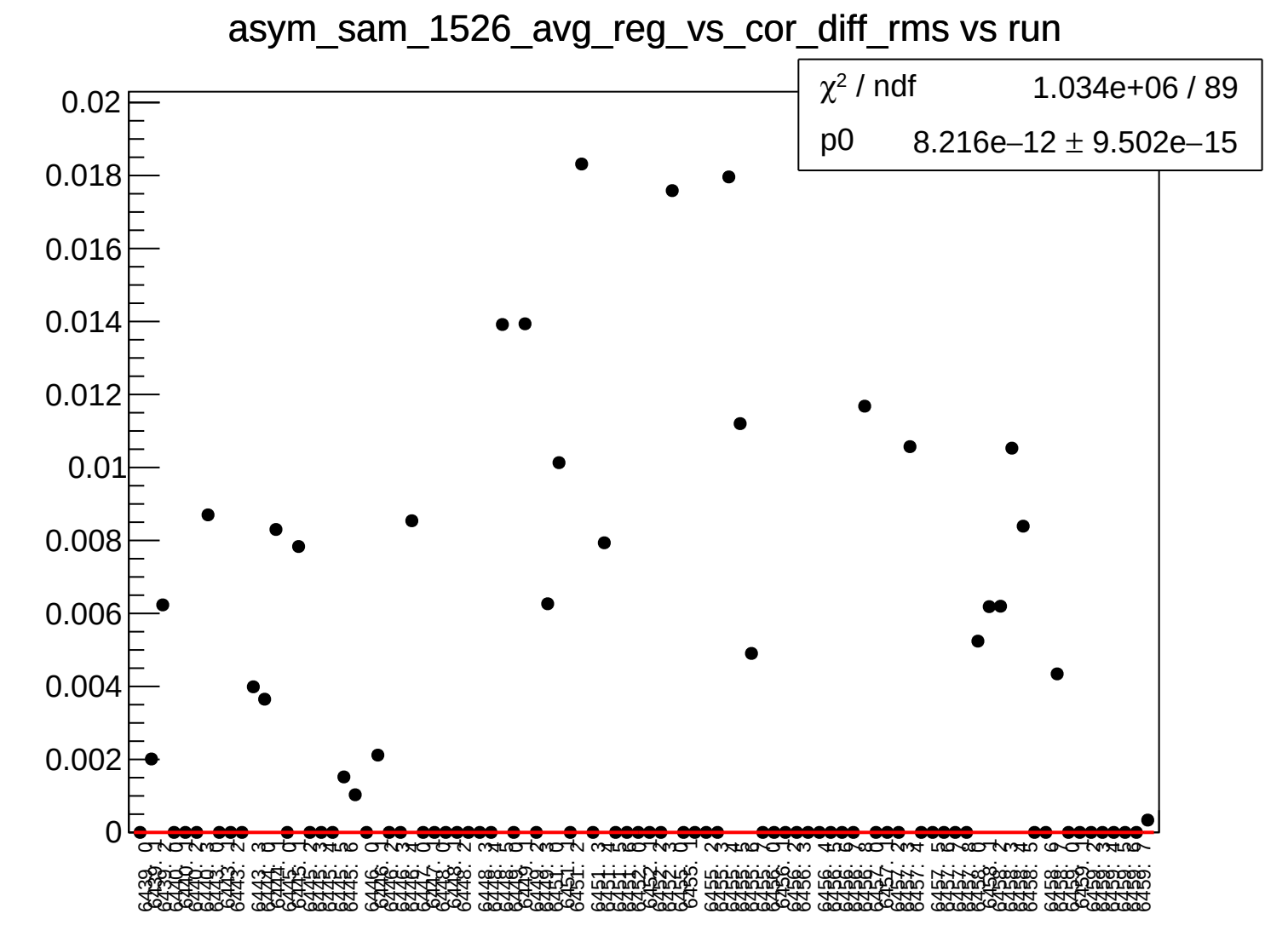

asym_sam_1526_avg_mean vs run
χ² / ndf 75.33 / 89
p0 1168 ± 416.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 90
Mean −1072
Std Dev 0
2
1
0
−1
−2
−3

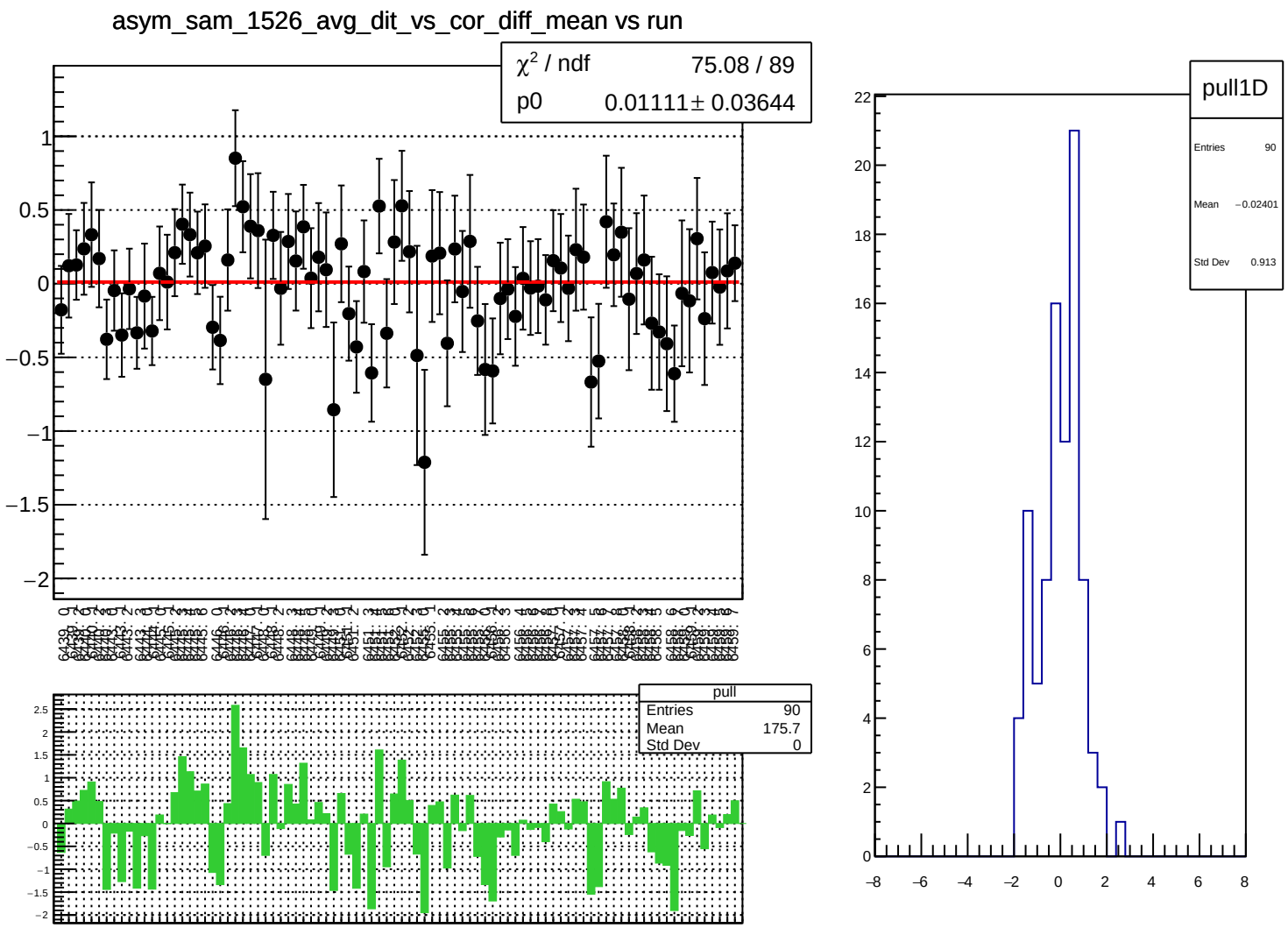

pull1D
Entries 90
Mean 0.00229
Std Dev 0.9149
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

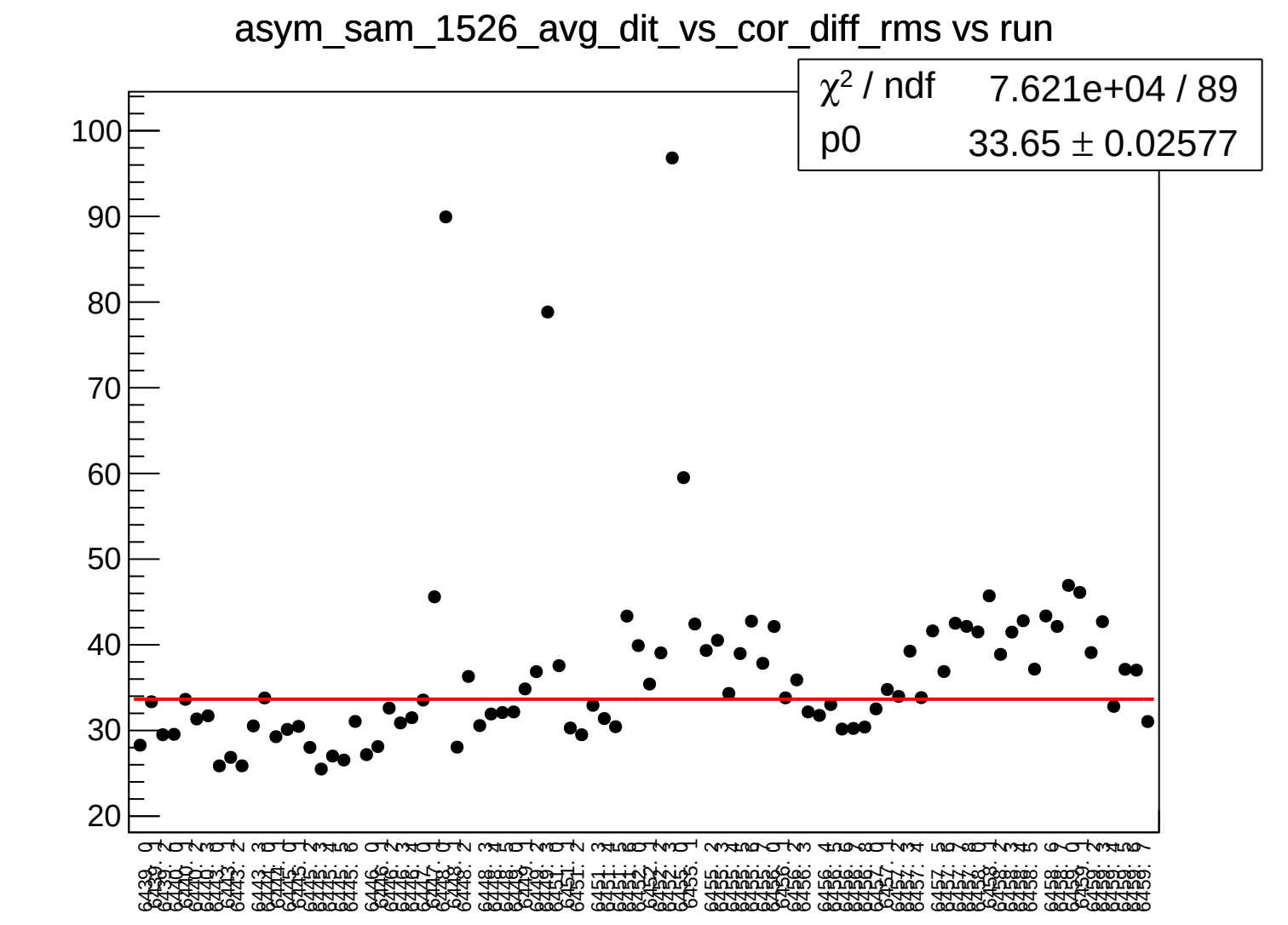

asym_sam_1526_avg_rms vs run
χ² / ndf 1.904e+04 / 89
p0 391.1 ± 0.2946
550
500
450
400
350
300

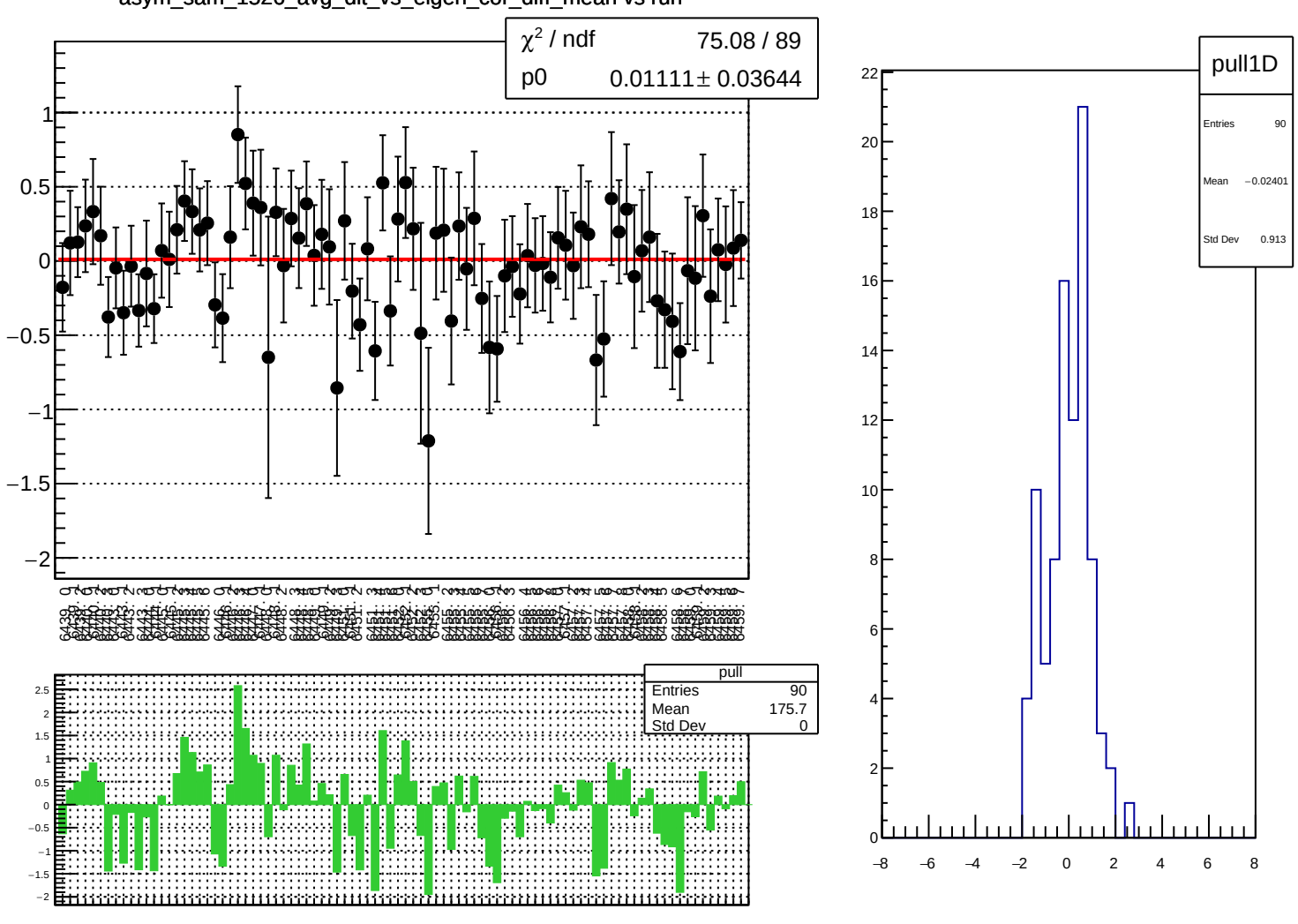

asym_sam_1526_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 69.44 / 89
p0 1.85e−15 ± 1.344e−14
pull
Entries 90
Mean 33.8
Std Dev 30.58

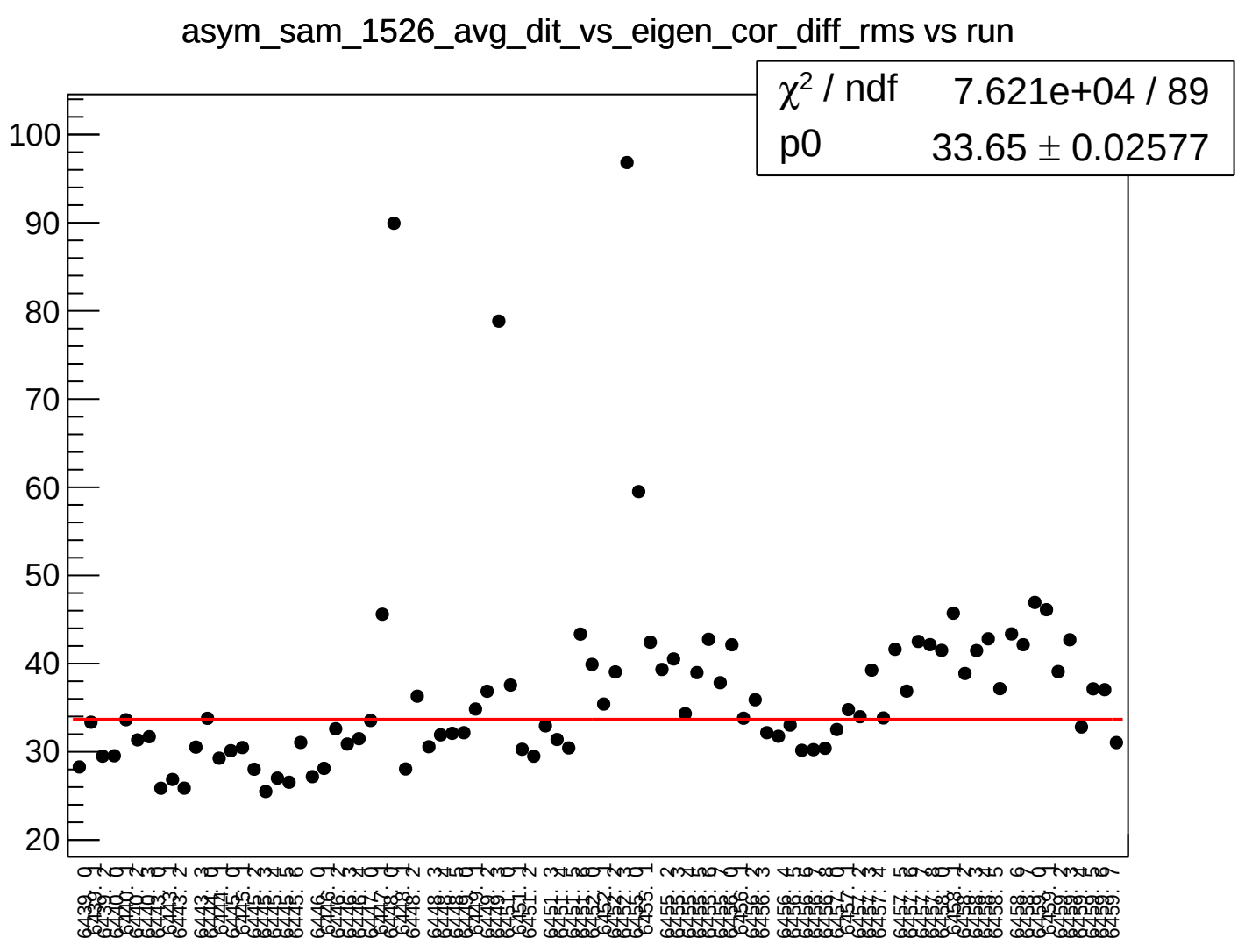

pull1D
Entries 90
Mean 0.07291
Std Dev 0.8754

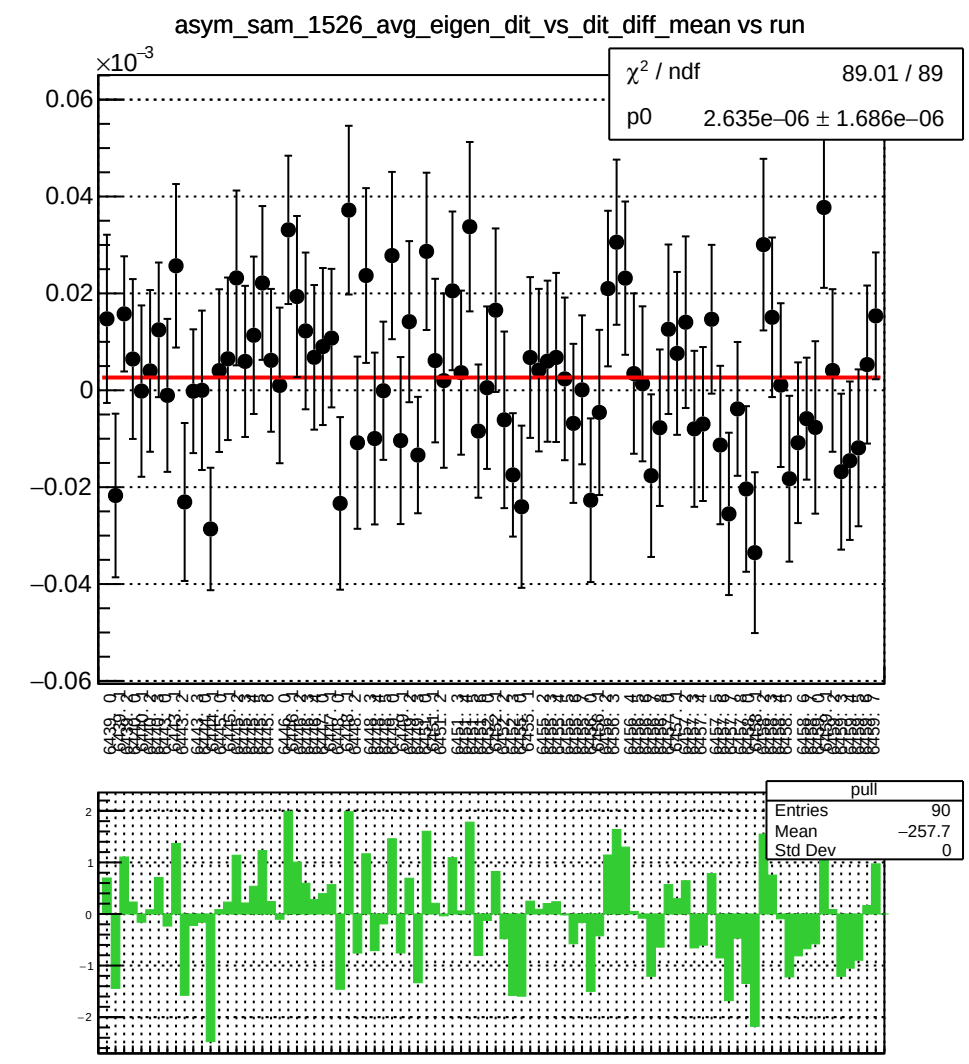

asym_sam_1526_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.034e+06 / 89
p0 8.216e−12 ± 9.502e−15
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0

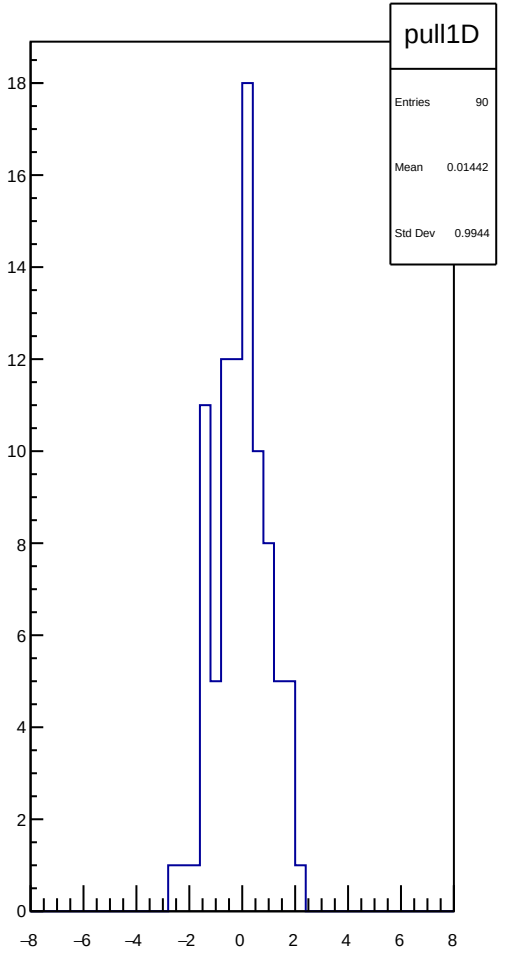

asym_sam_1526_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 75.08 / 89
p0 0.01111 ± 0.03644
pull
Entries 90
Mean 175.7
Std Dev 0
pull1D
Entries 90
Mean −0.02401
Std Dev 0.913

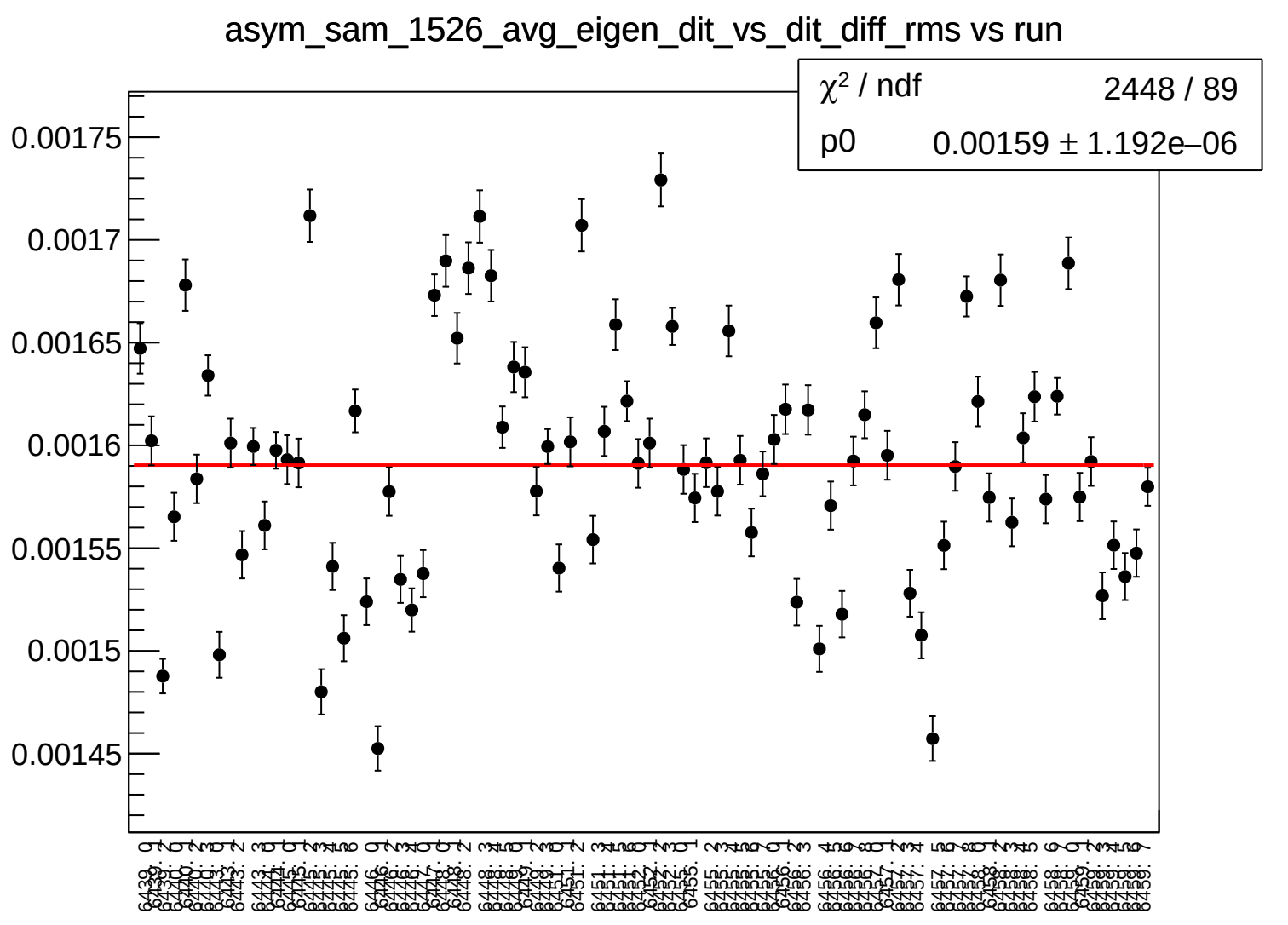

asym_sam_1526_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.621e+04 / 89
p0 33.65 ± 0.02577
100
90
80
70
60
50
40
30
20

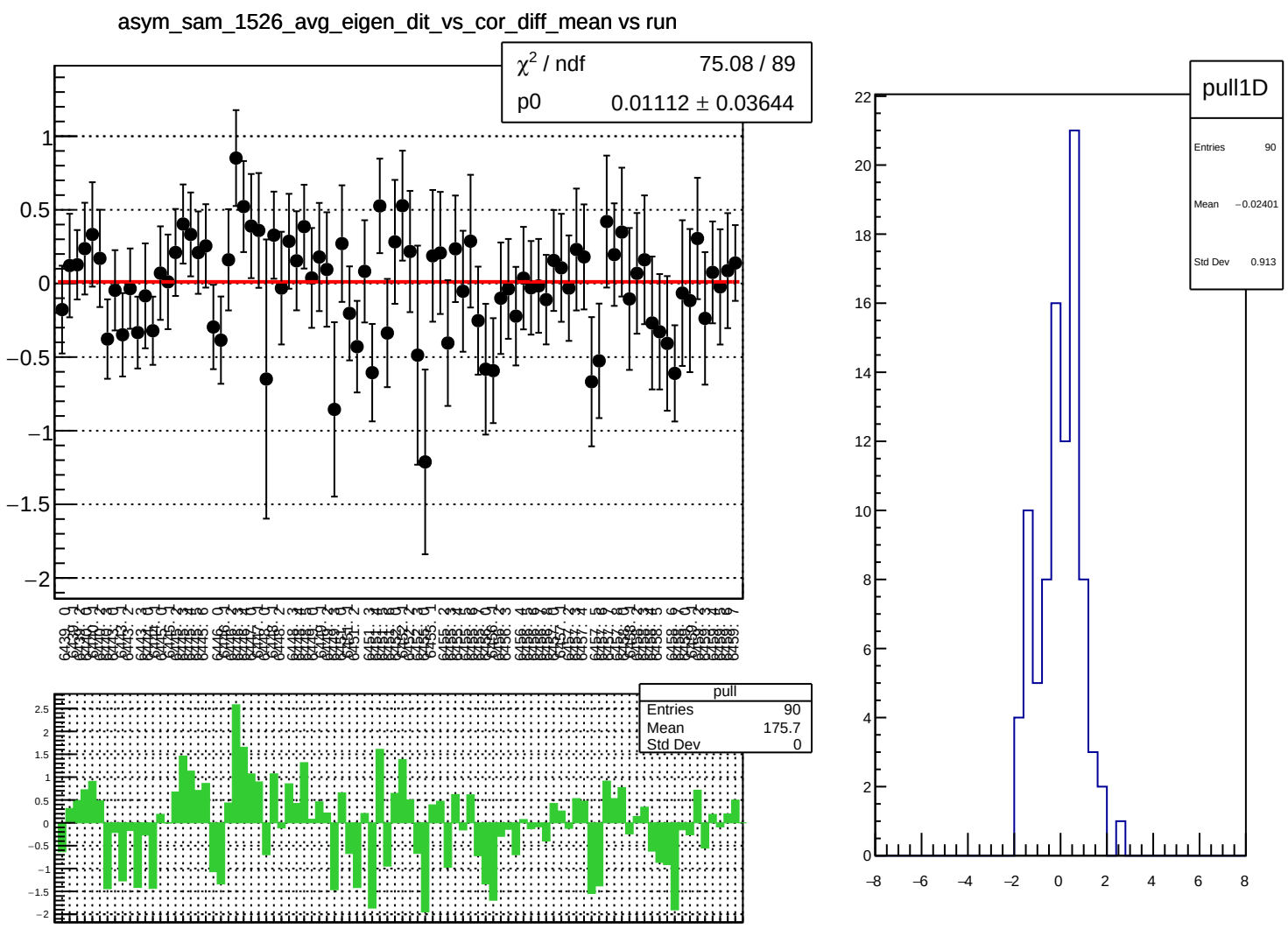

asym_sam_1526_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.08 / 89
p0 0.01111 ± 0.03644
pull
Entries 90
Mean 175.7
Std Dev 0
pull1D
Entries 90
Mean −0.02401
Std Dev 0.913

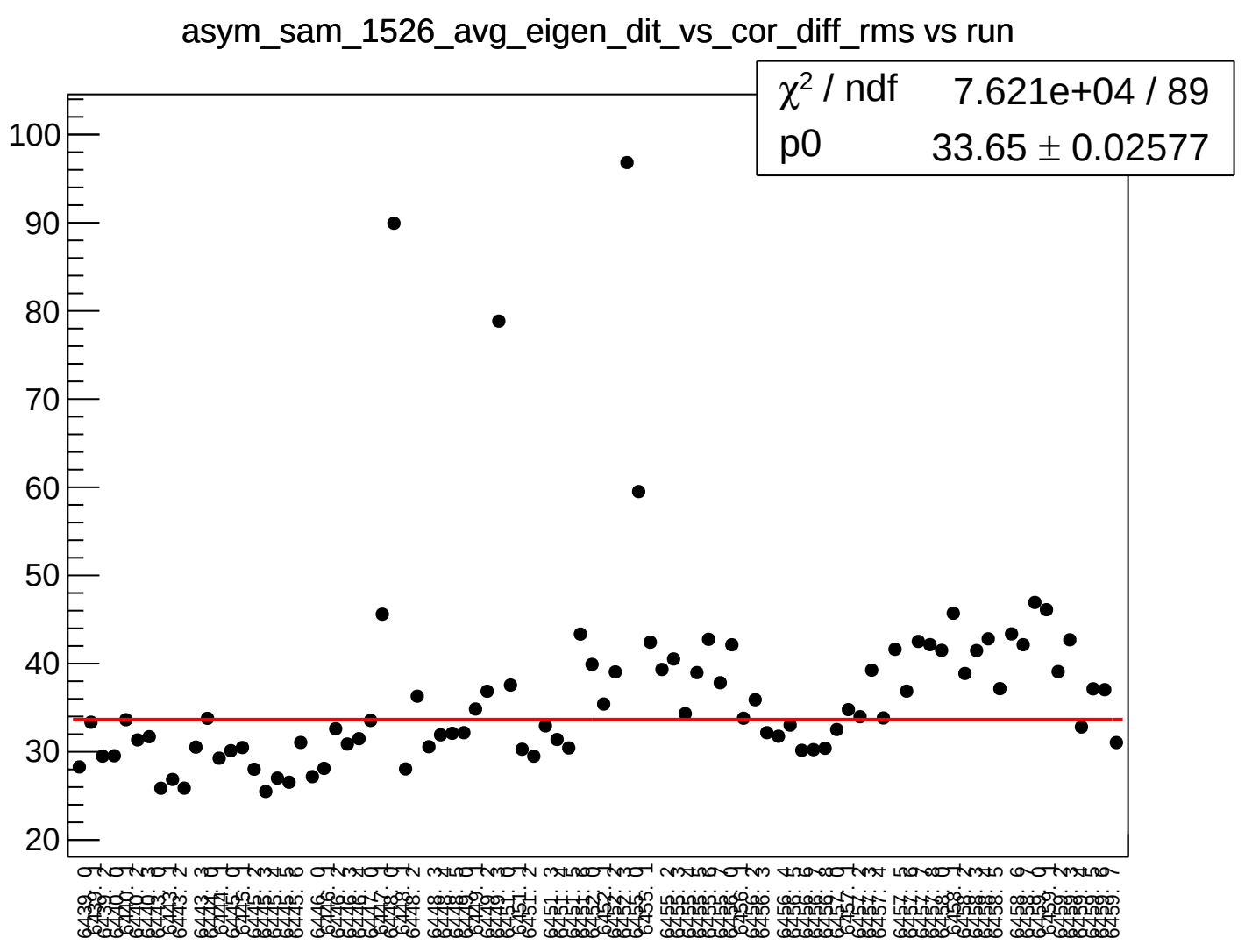

asym_sam_1526_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.621e+04 / 89
p0 33.65 ± 0.02577
100
90
80
70
60
50
40
30
20

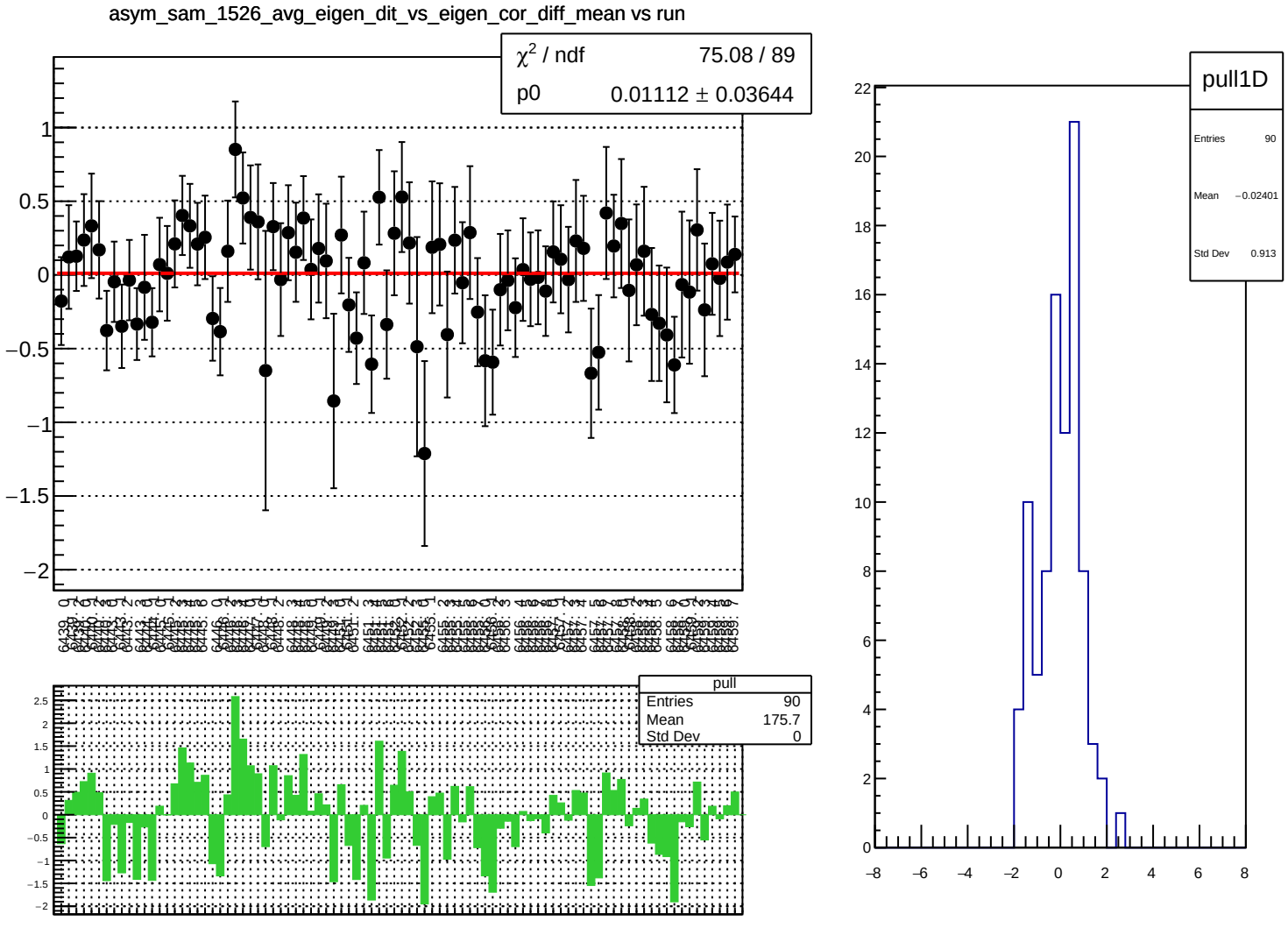

asym_sam_1526_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.01 / 89
p0 2.635e−06 ± 1.686e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 90
Mean −257.7
Std Dev 0
2
1
0
−1
−2

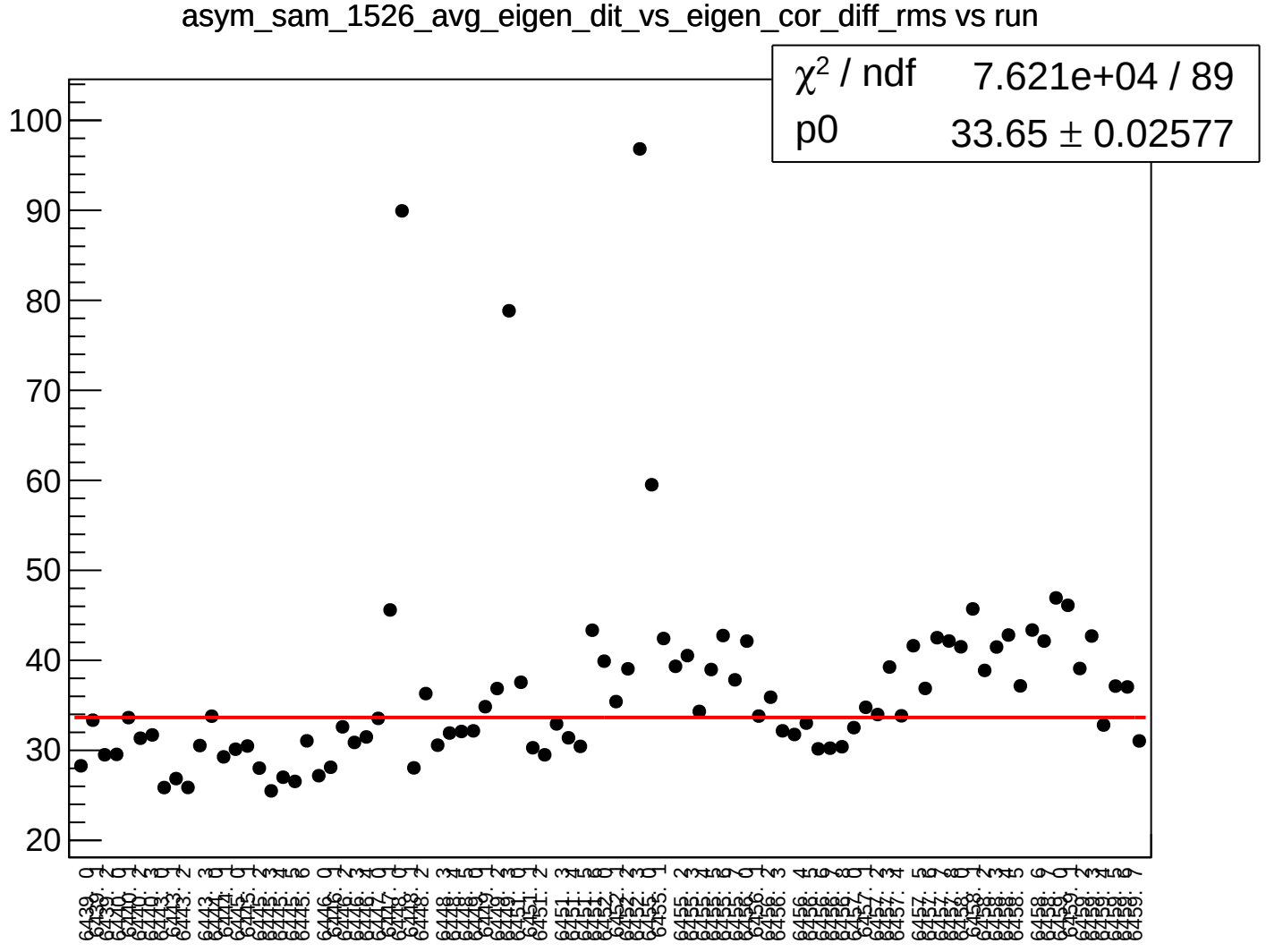

pull1D
Entries 90
Mean 0.01442
Std Dev 0.9944
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

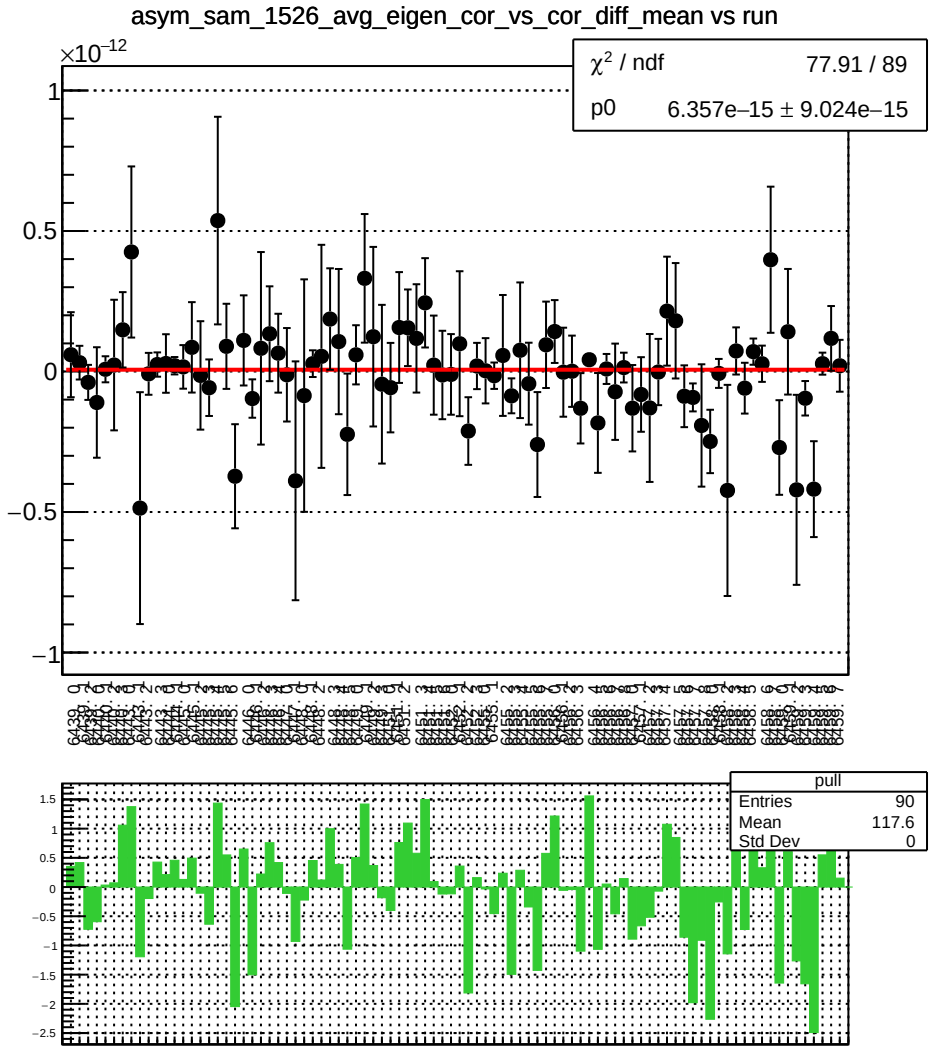

asym_sam_1526_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2448 / 89
p0 0.00159 ± 1.192e−06
0.00175
0.0017
0.00165
0.0016
0.00155
0.0015
0.00145

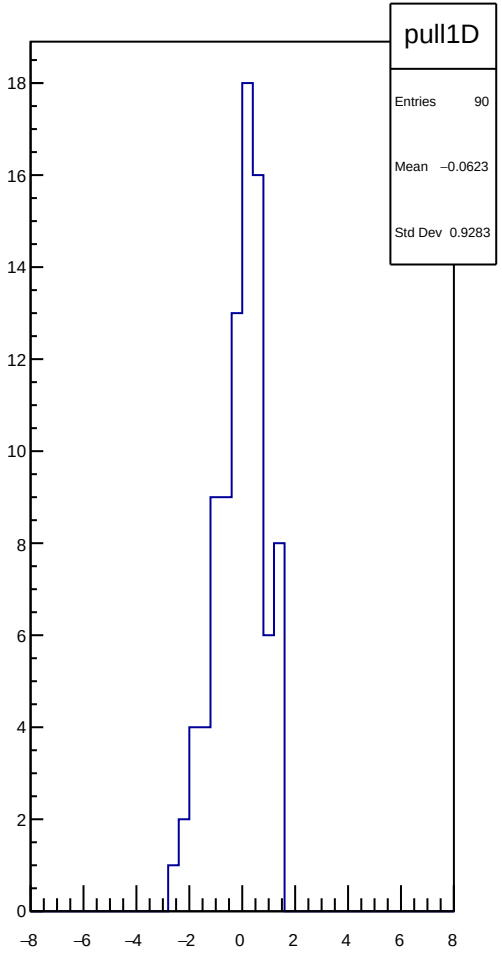

asym_sam_1526_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.08 / 89
p0 0.01112 ± 0.03644
pull
Entries 90
Mean 175.7
Std Dev 0
pull1D
Entries 90
Mean −0.02401
Std Dev 0.913

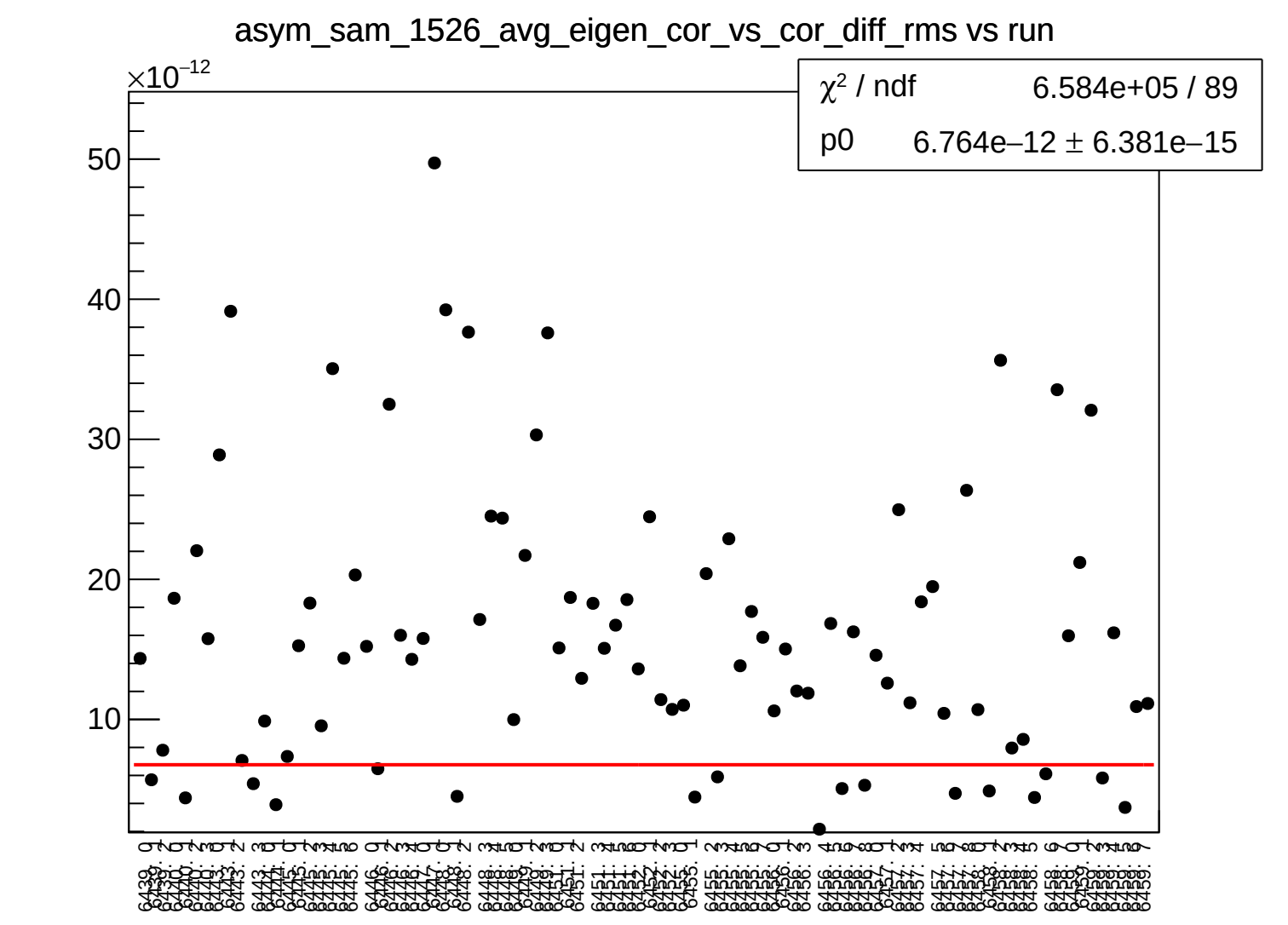

asym_sam_1526_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.621e+04 / 89
p0 33.65 ± 0.02577
100
90
80
70
60
50
40
30
20

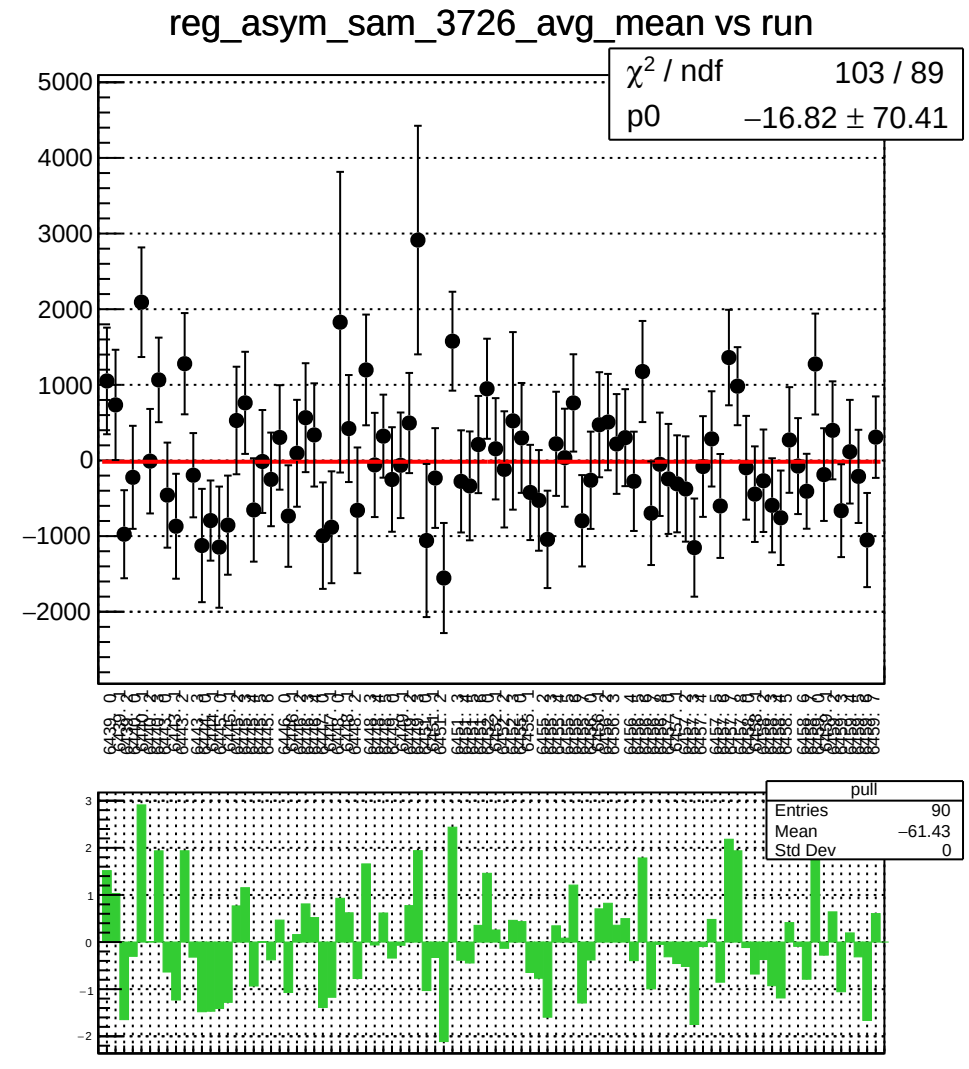

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.08 / 89
p0 0.01112 ± 0.03644
pull
Entries 90
Mean 175.7
Std Dev 0
pull1D
Entries 90
Mean −0.02401
Std Dev 0.913

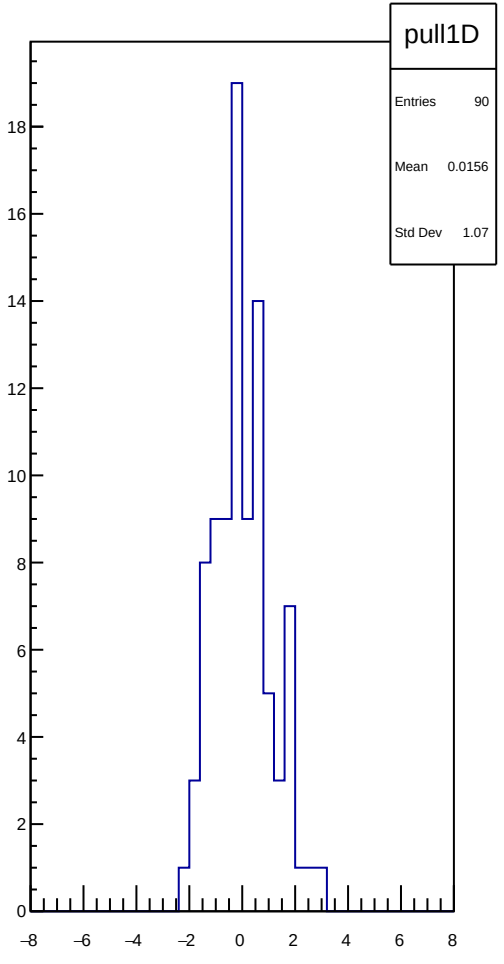

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.621e+04 / 89
p0 33.65 ± 0.02577
100
90
80
70
60
50
40
30
20

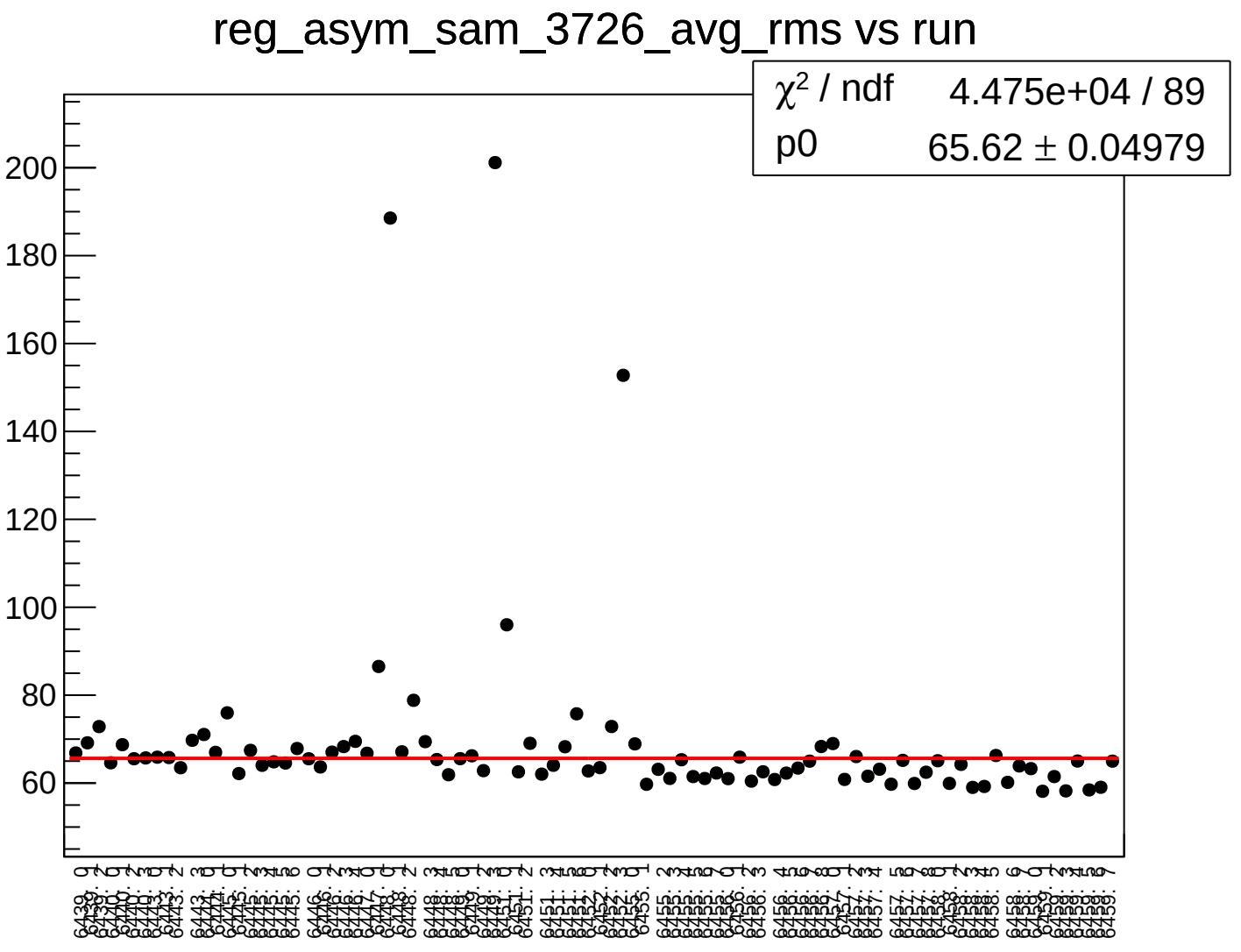

asym_sam_1526_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.91 / 89
p0 6.357e−15 ± 9.024e−15
pull
Entries 90
Mean 117.6
Std Dev 0

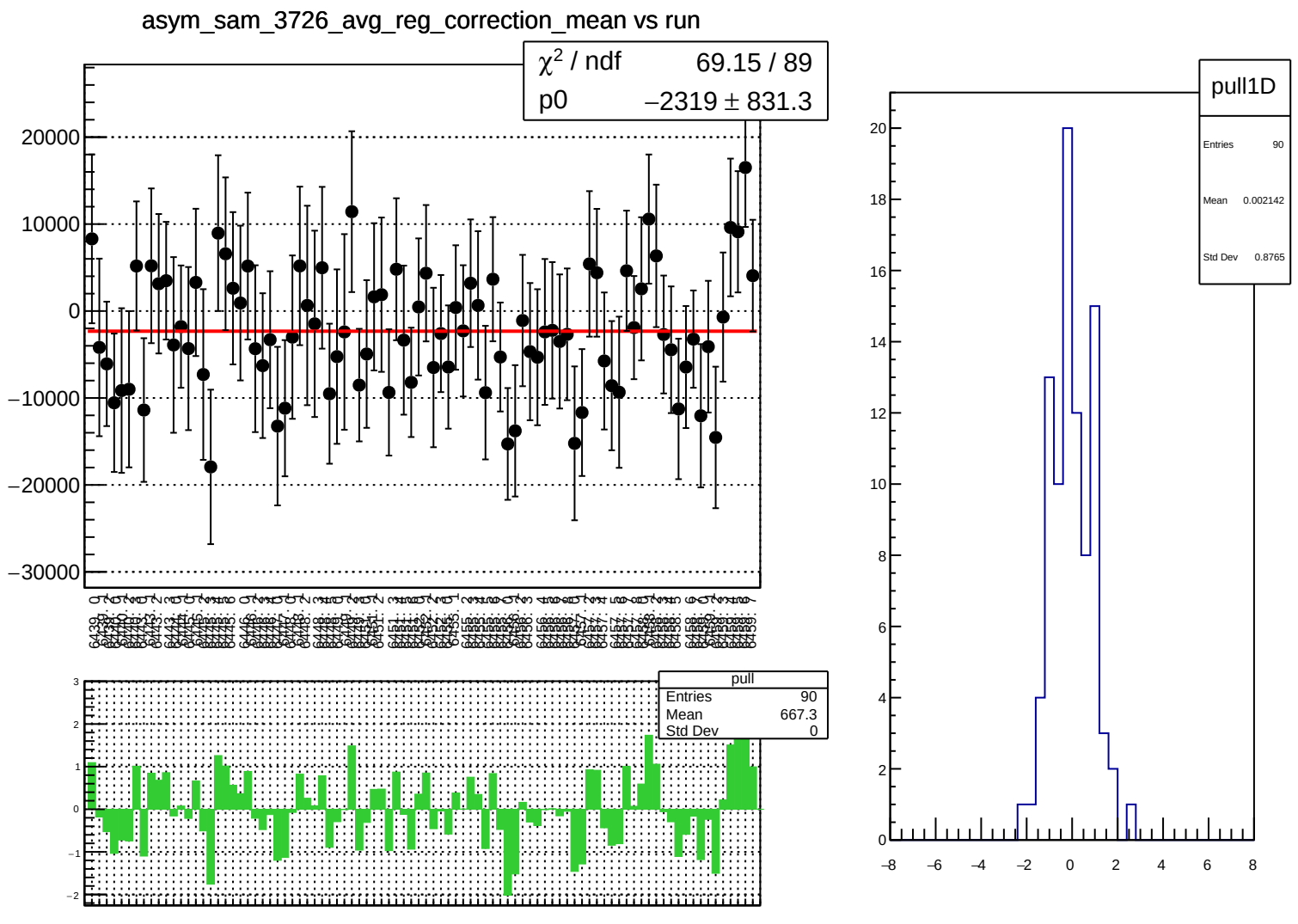

pull1D
Entries 90
Mean −0.0623
Std Dev 0.9283

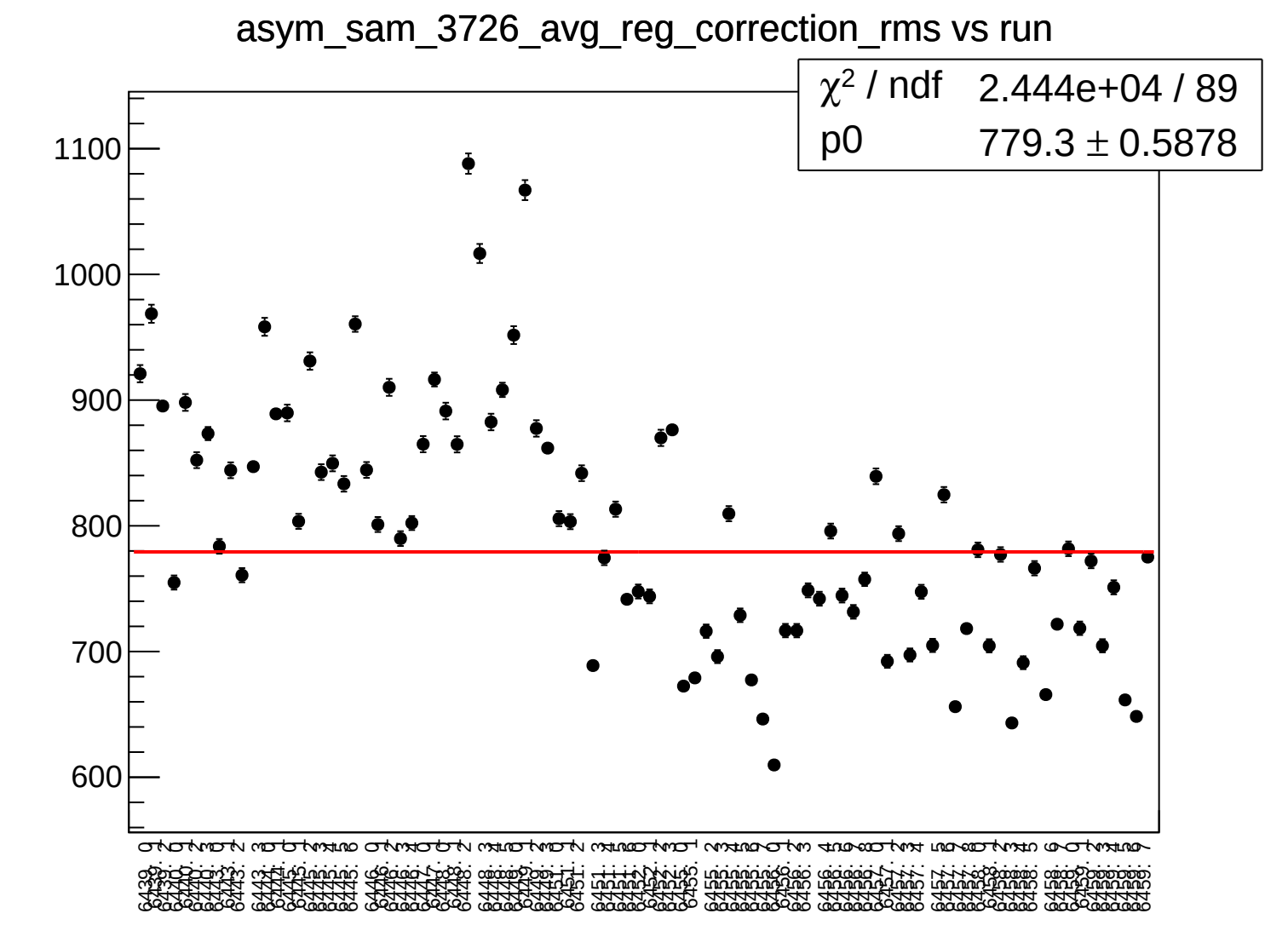

asym_sam_1526_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.584e+05 / 89
p0 6.764e−12 ± 6.381e−15
50
40
30
20
10

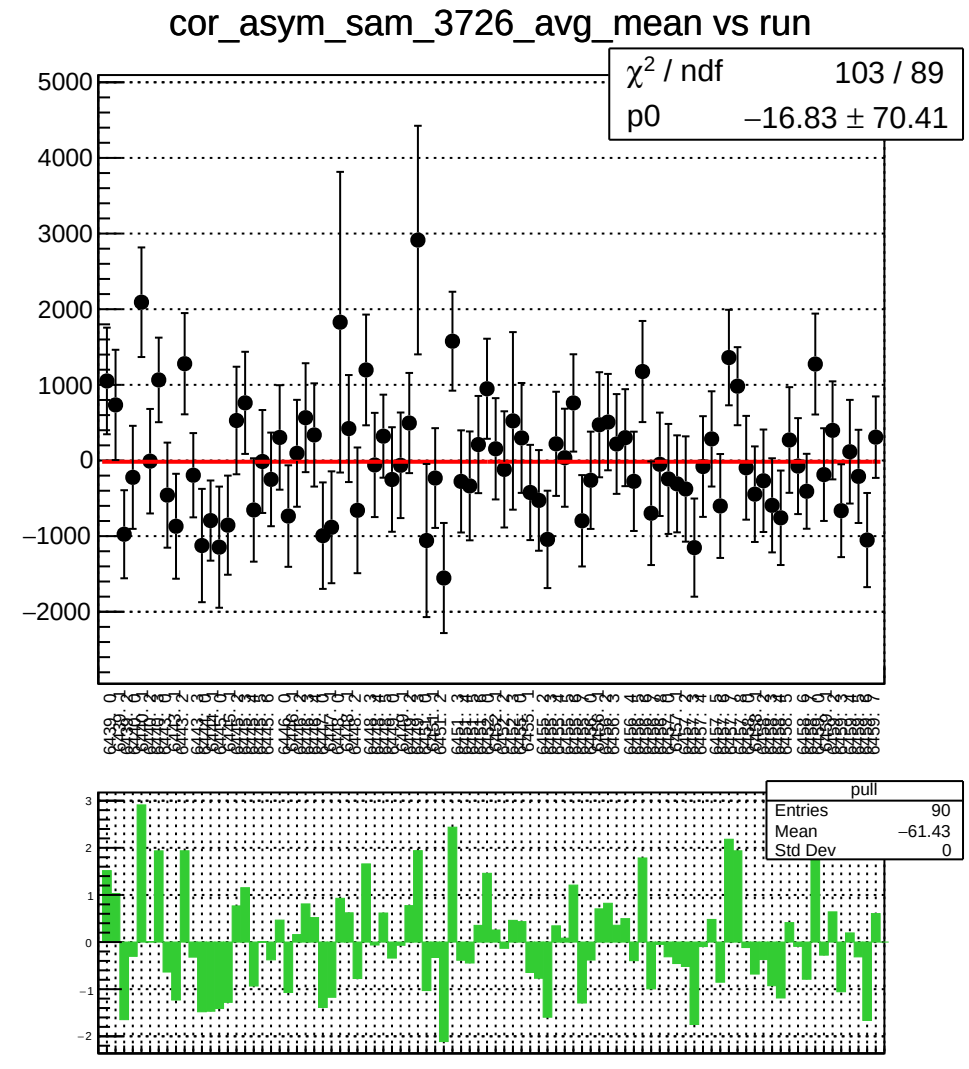

reg_asym_sam_3726_avg_mean vs run
χ² / ndf 103 / 89
p0 −16.82 ± 70.41
pull
Entries 90
Mean −61.43
Std Dev 0

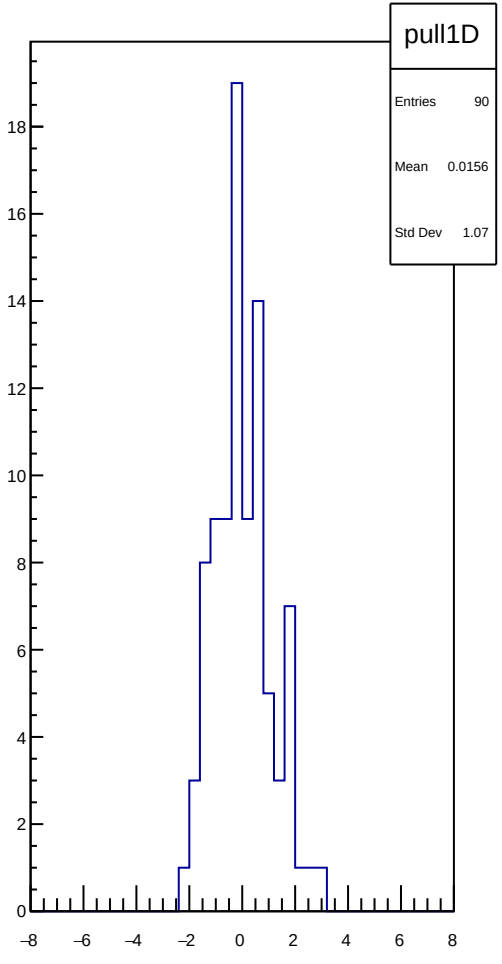

pull1D
Entries 90
Mean 0.0156
Std Dev 1.07

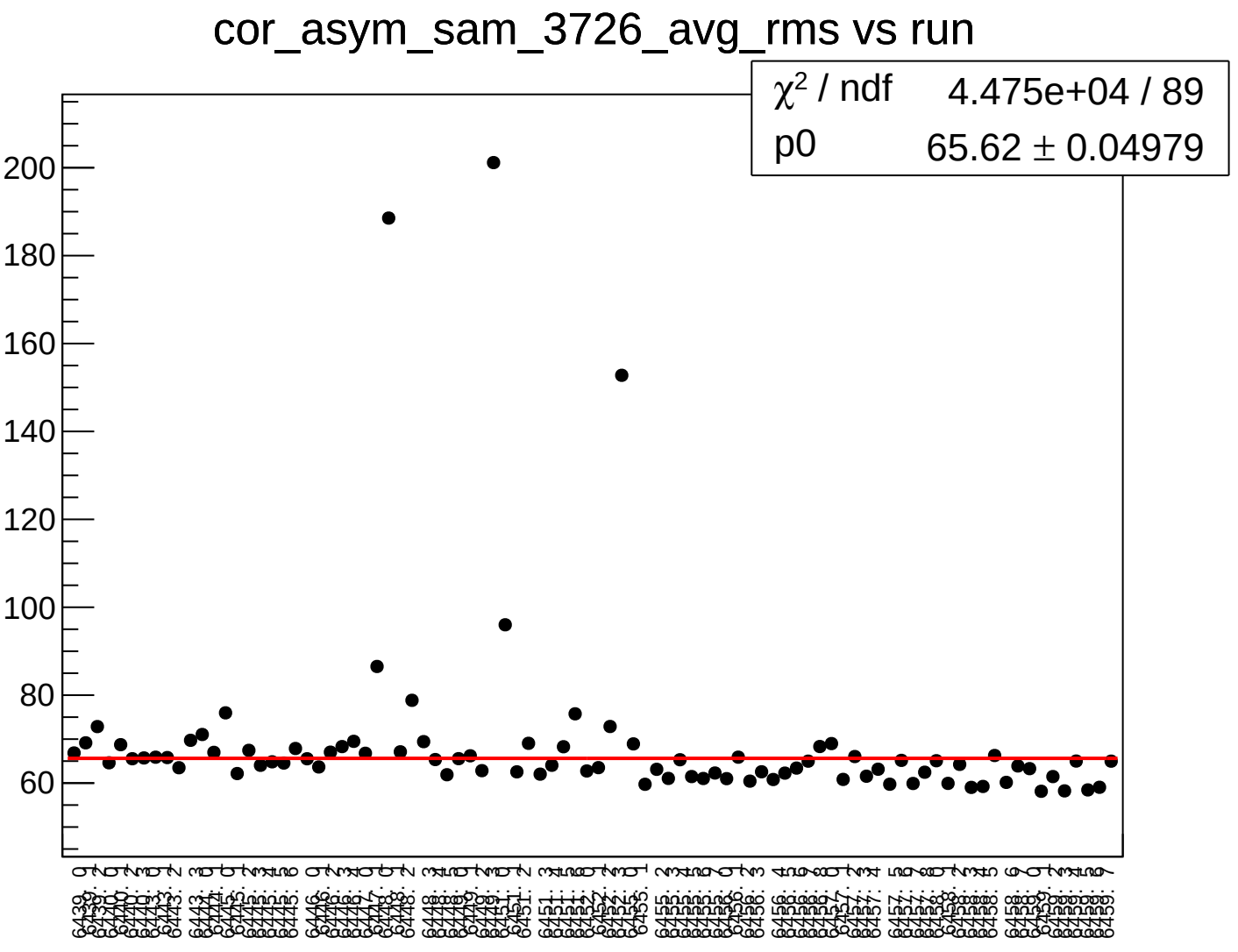

reg_asym_sam_3726_avg_rms vs run
χ^2 / ndf 4.475e+04 / 89
p0 65.62 ± 0.04979
200
180
160
140
120
100
80
60

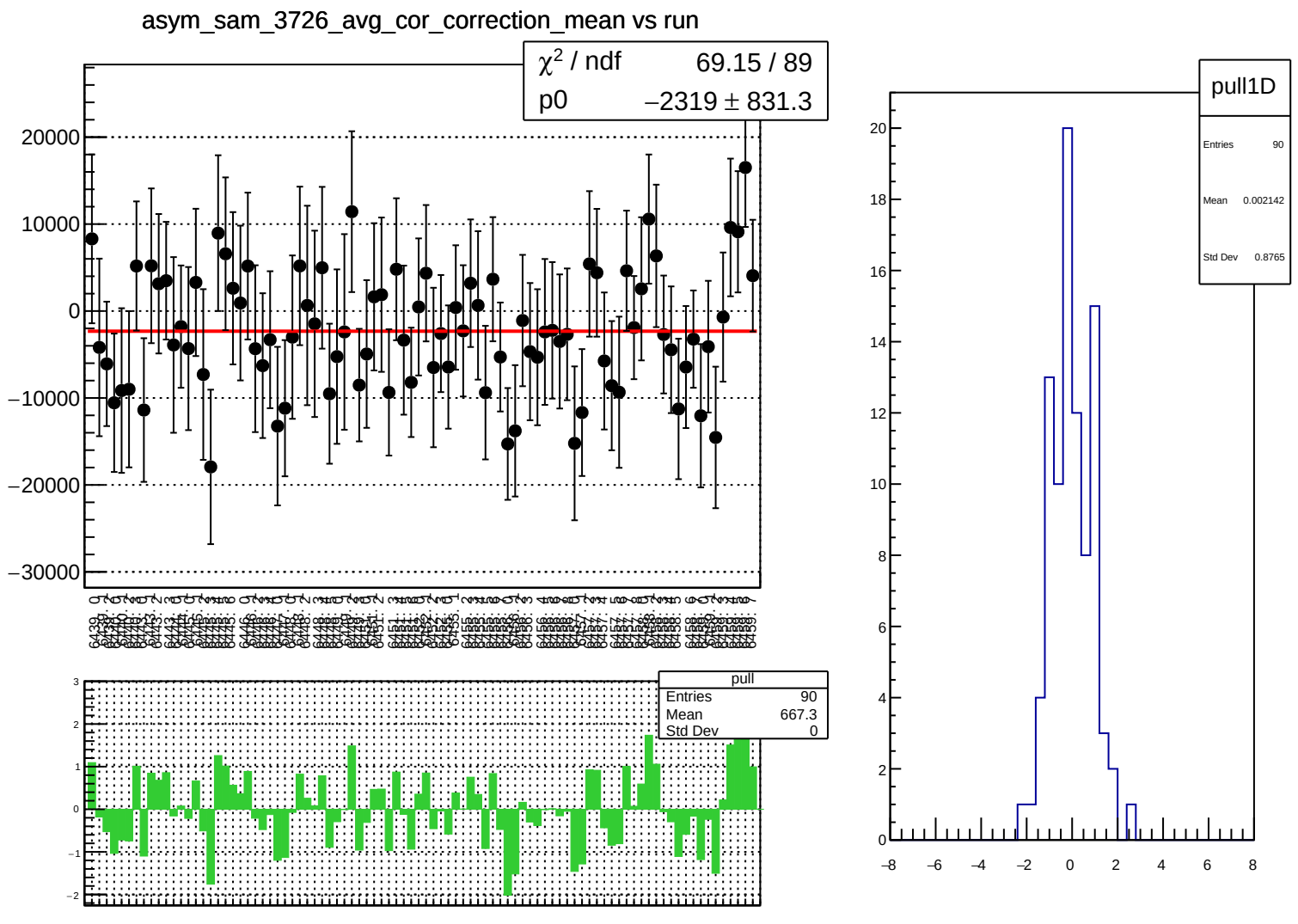

asym_sam_3726_avg_reg_correction_mean vs run
χ² / ndf 69.15 / 89
p0 −2319 ± 831.3
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean 667.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 90
Mean 0.002142
Std Dev 0.8765
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

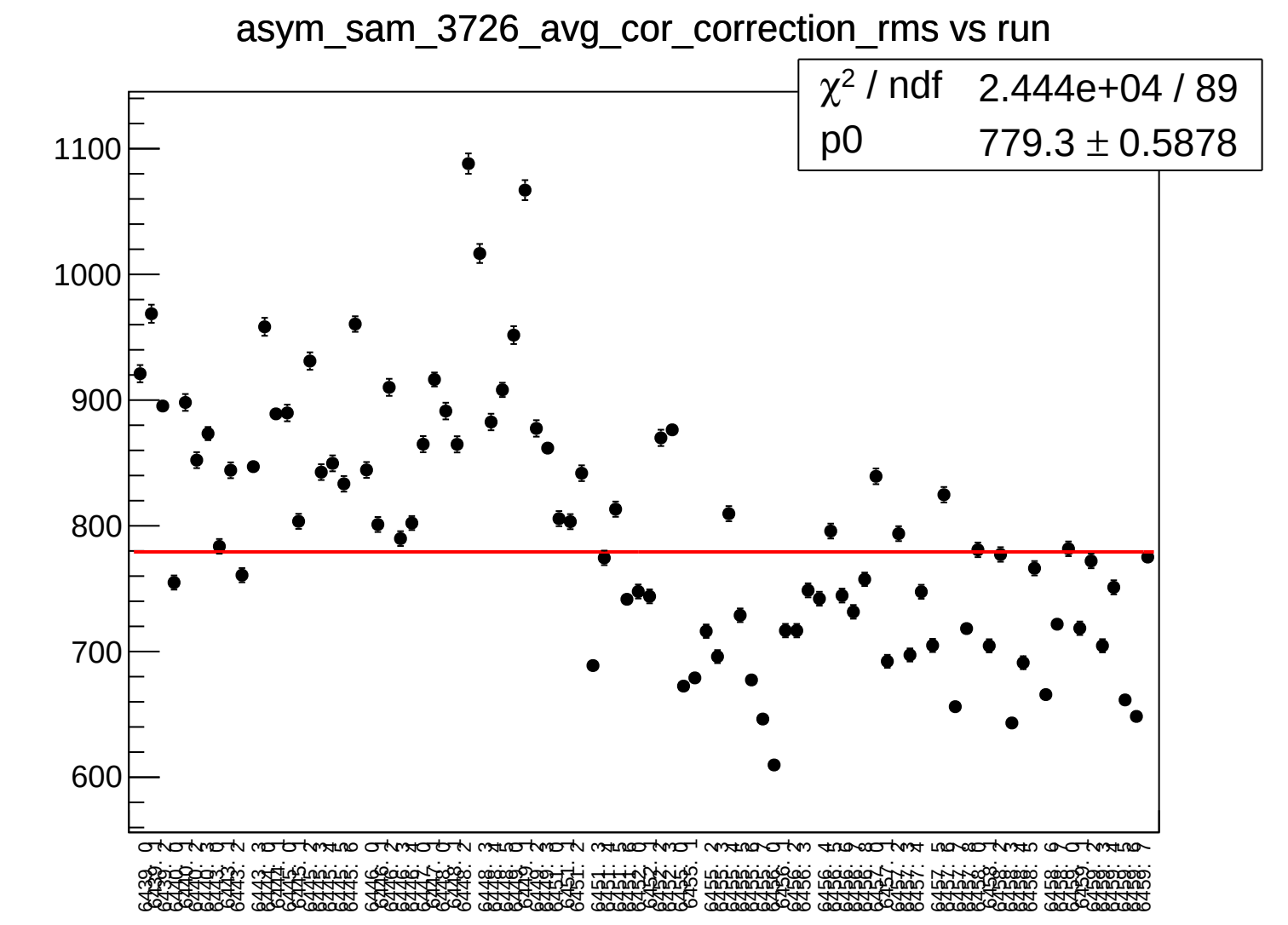

asym_sam_3726_avg_reg_correction_rms vs run
χ² / ndf 2.444e+04 / 89
p0 779.3 ± 0.5878
1100
1000
900
800
700
600

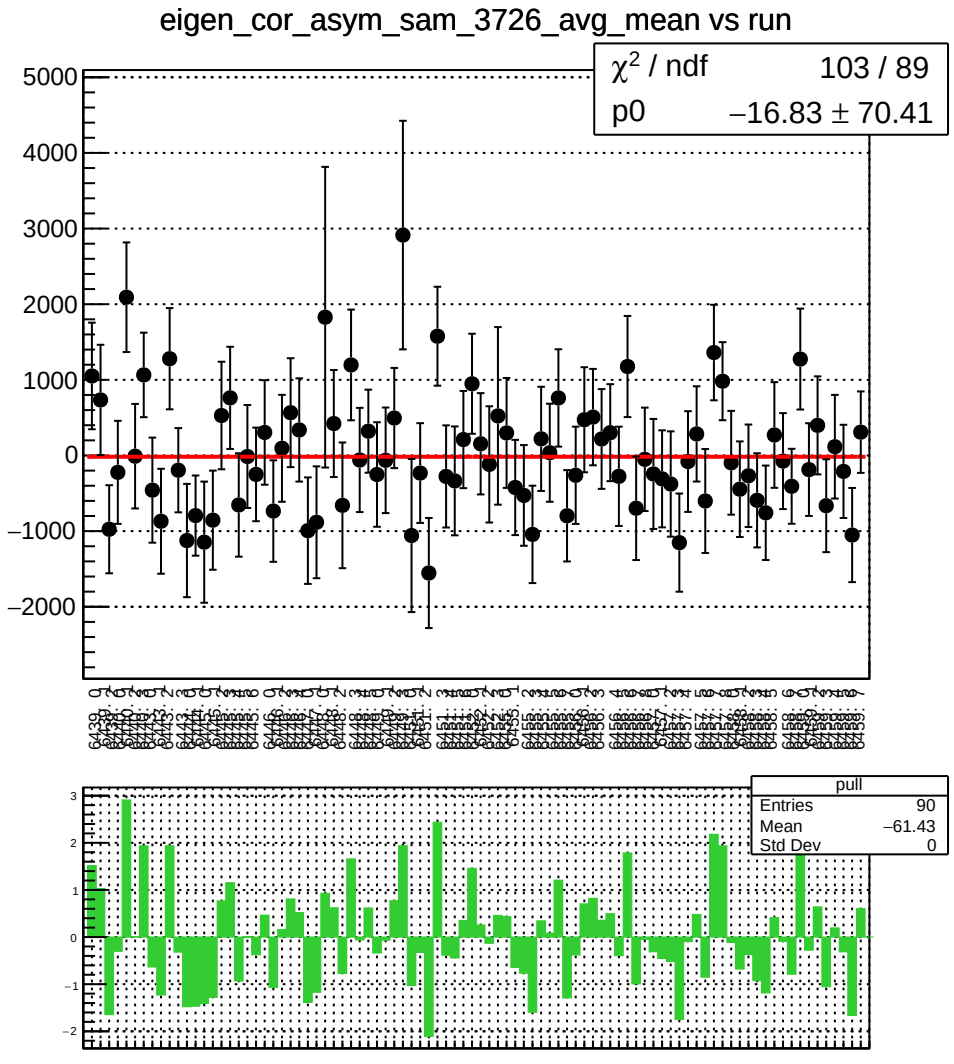

cor_asym_sam_3726_avg_mean vs run
χ² / ndf 103 / 89
p0 −16.83 ± 70.41
pull
Entries 90
Mean −61.43
Std Dev 0

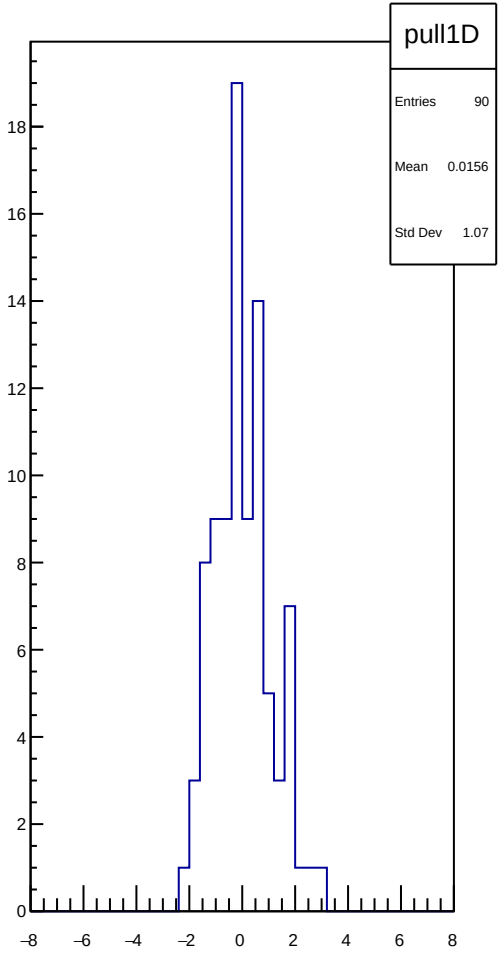

pull1D
Entries 90
Mean 0.0156
Std Dev 1.07

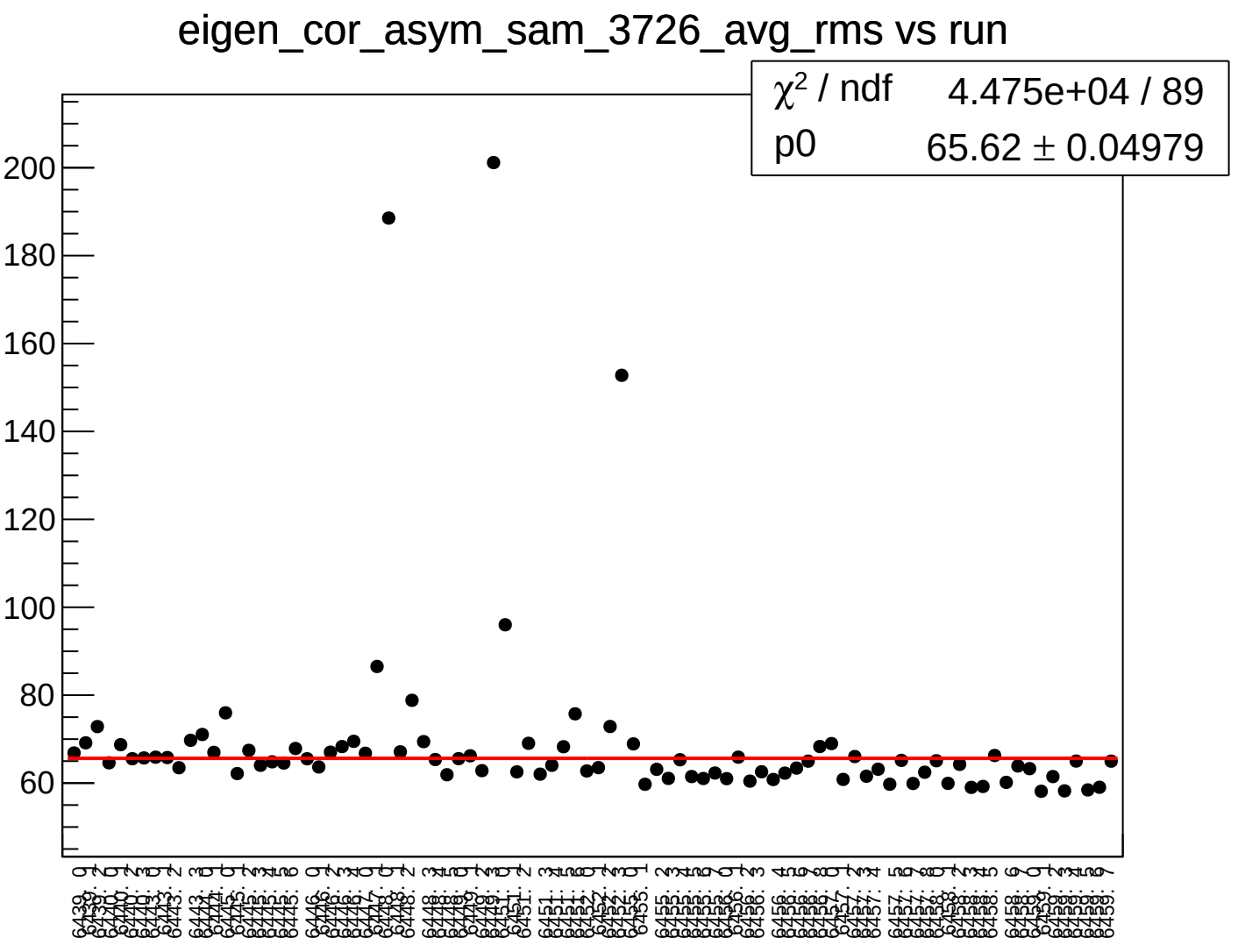

cor_asym_sam_3726_avg_rms vs run
χ² / ndf 4.475e+04 / 89
p0 65.62 ± 0.04979
200
180
160
140
120
100
80
60

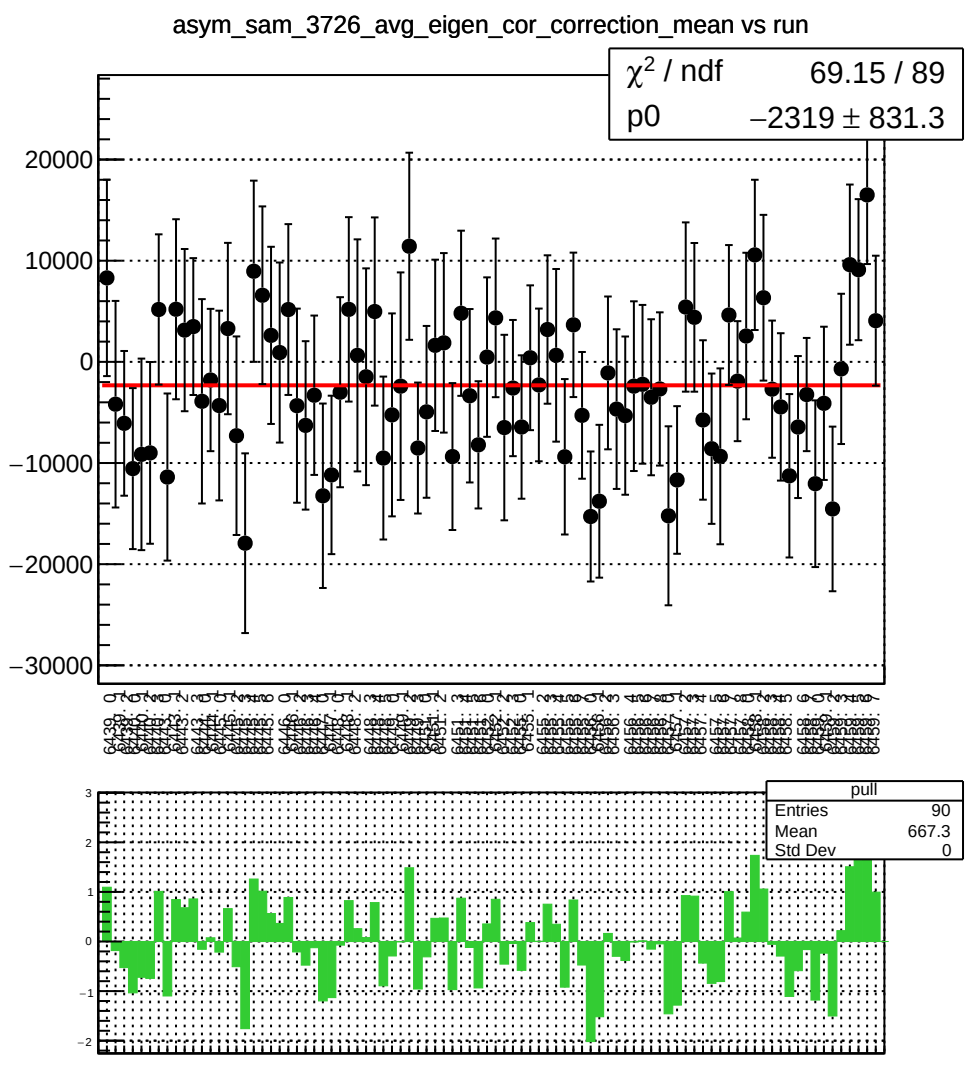

asym_sam_3726_avg_cor_correction_mean vs run
χ² / ndf 69.15 / 89
p0 −2319 ± 831.3
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean 667.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 90
Mean 0.002142
Std Dev 0.8765
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

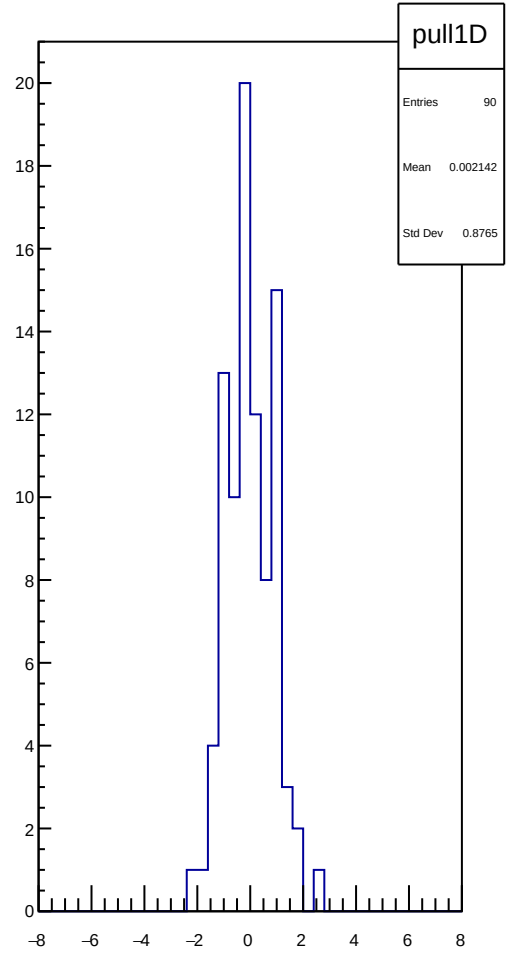

asym_sam_3726_avg_cor_correction_rms vs run
χ² / ndf 2.444e+04 / 89
p0 779.3 ± 0.5878
1100
1000
900
800
700
600

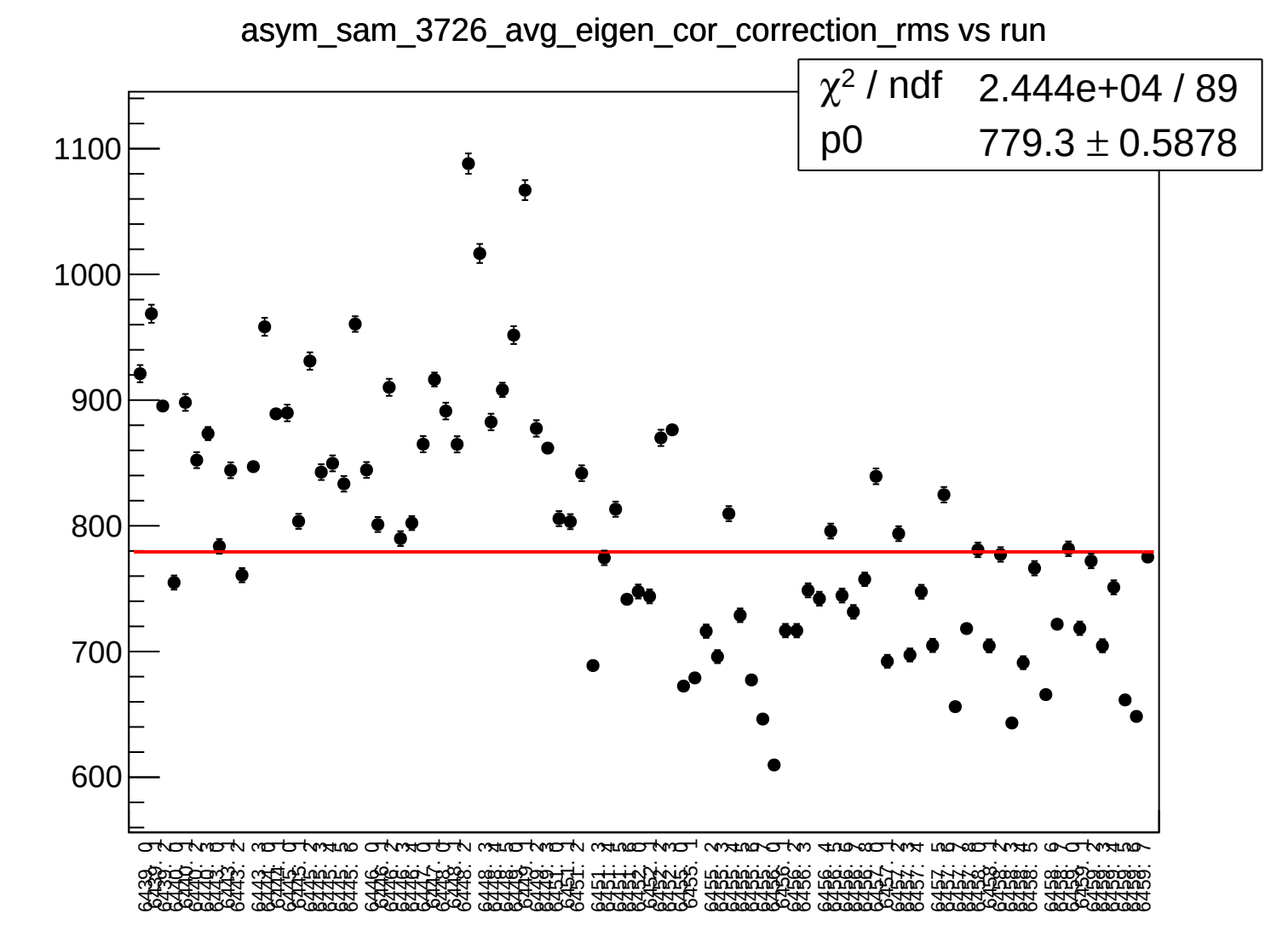

eigen_cor_asym_sam_3726_avg_mean vs run
χ² / ndf 103 / 89
p0 −16.83 ± 70.41
pull
Entries 90
Mean −61.43
Std Dev 0

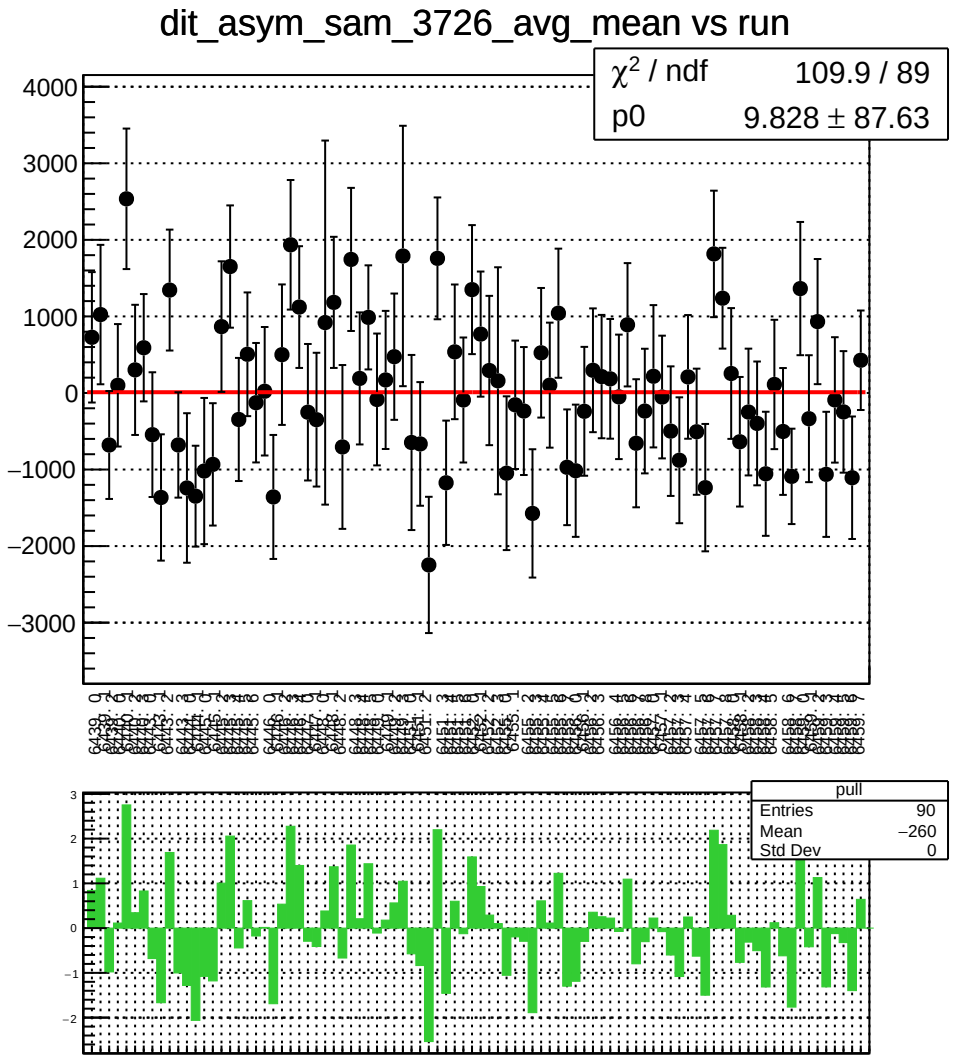

pull1D
Entries 90
Mean 0.0156
Std Dev 1.07

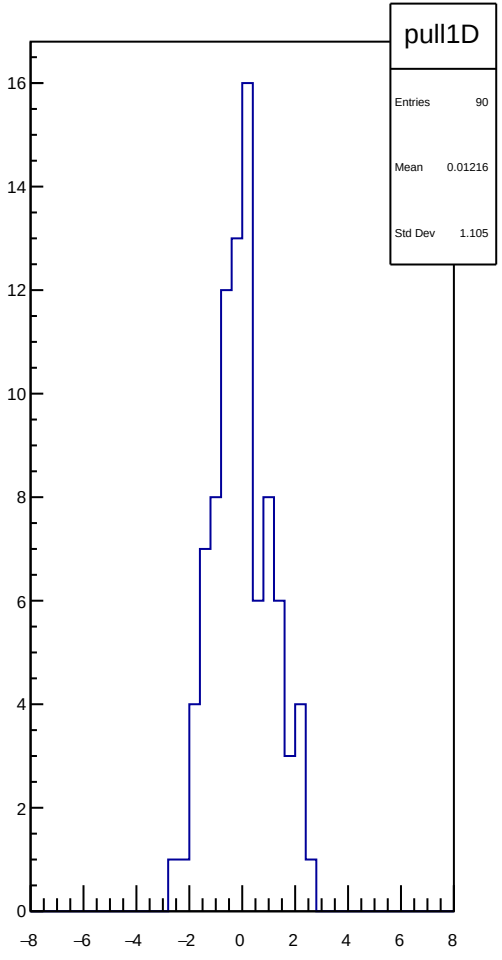

eigen_cor_asym_sam_3726_avg_rms vs run
χ² / ndf 4.475e+04 / 89
p0 65.62 ± 0.04979
200
180
160
140
120
100
80
60

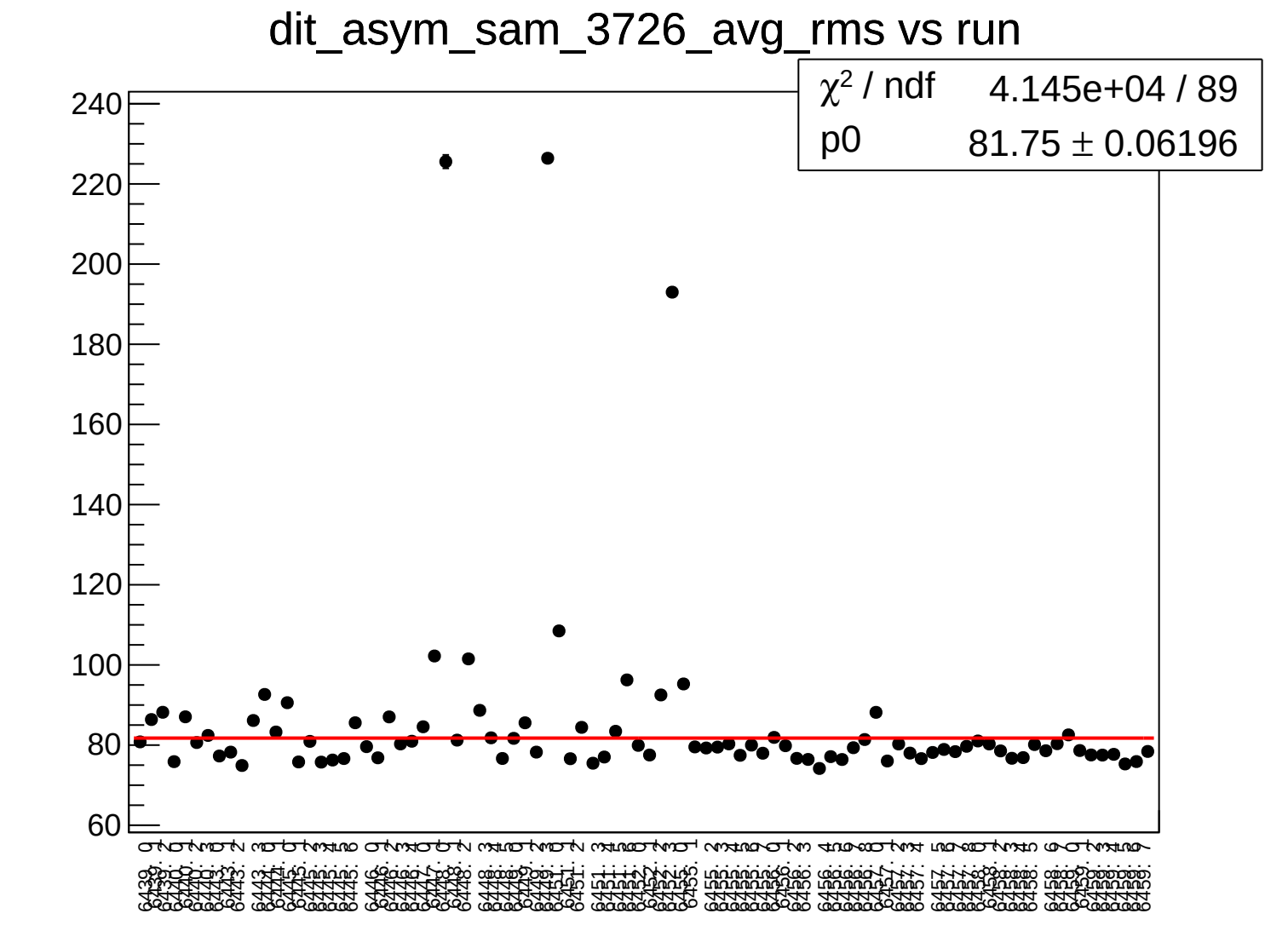

asym_sam_3726_avg_eigen_cor_correction_mean vs run
χ² / ndf 69.15 / 89
p0 −2319 ± 831.3
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean 667.3
Std Dev 0
3
2
1
0
−1
−2

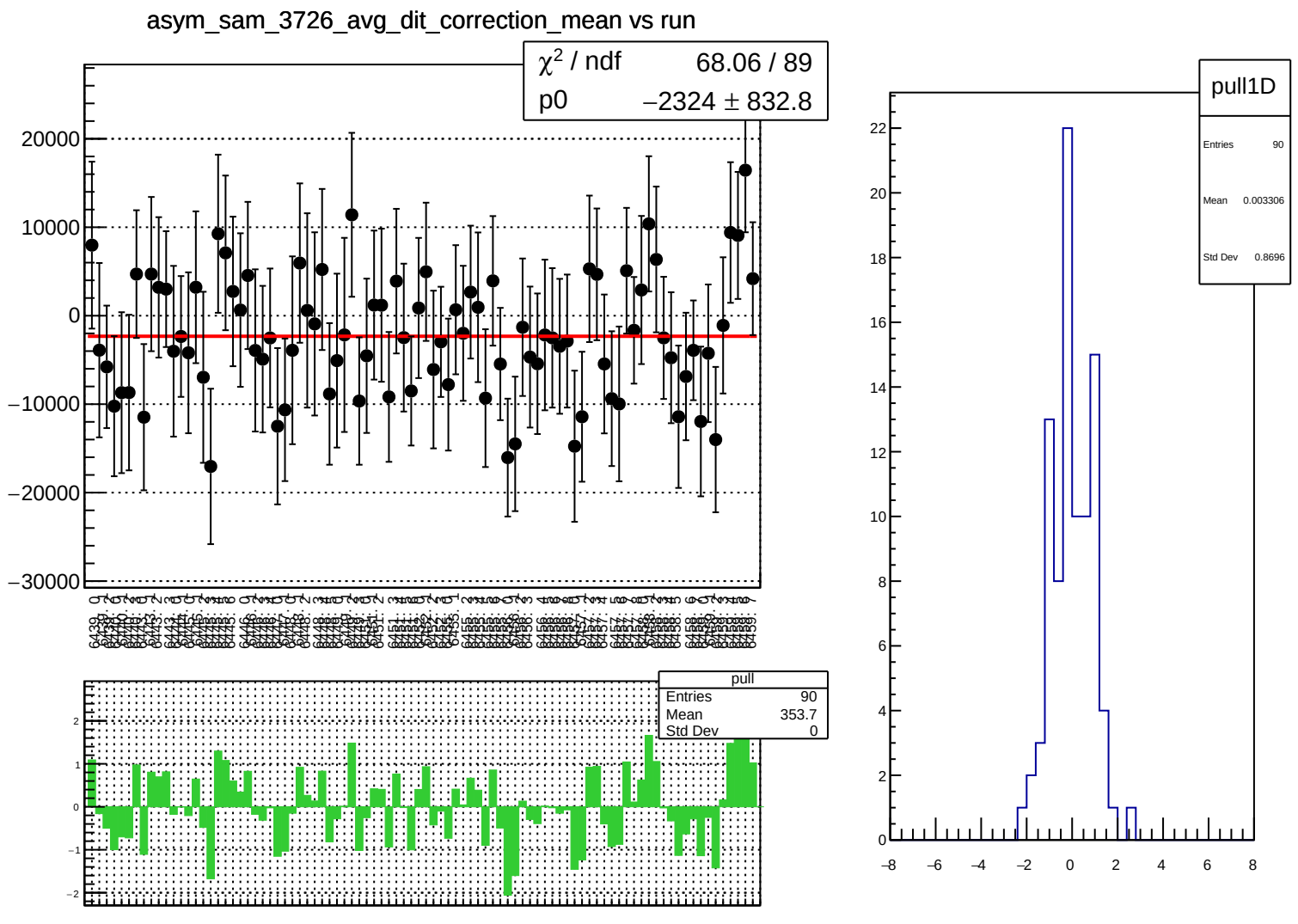

pull1D
Entries 90
Mean 0.002142
Std Dev 0.8765
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

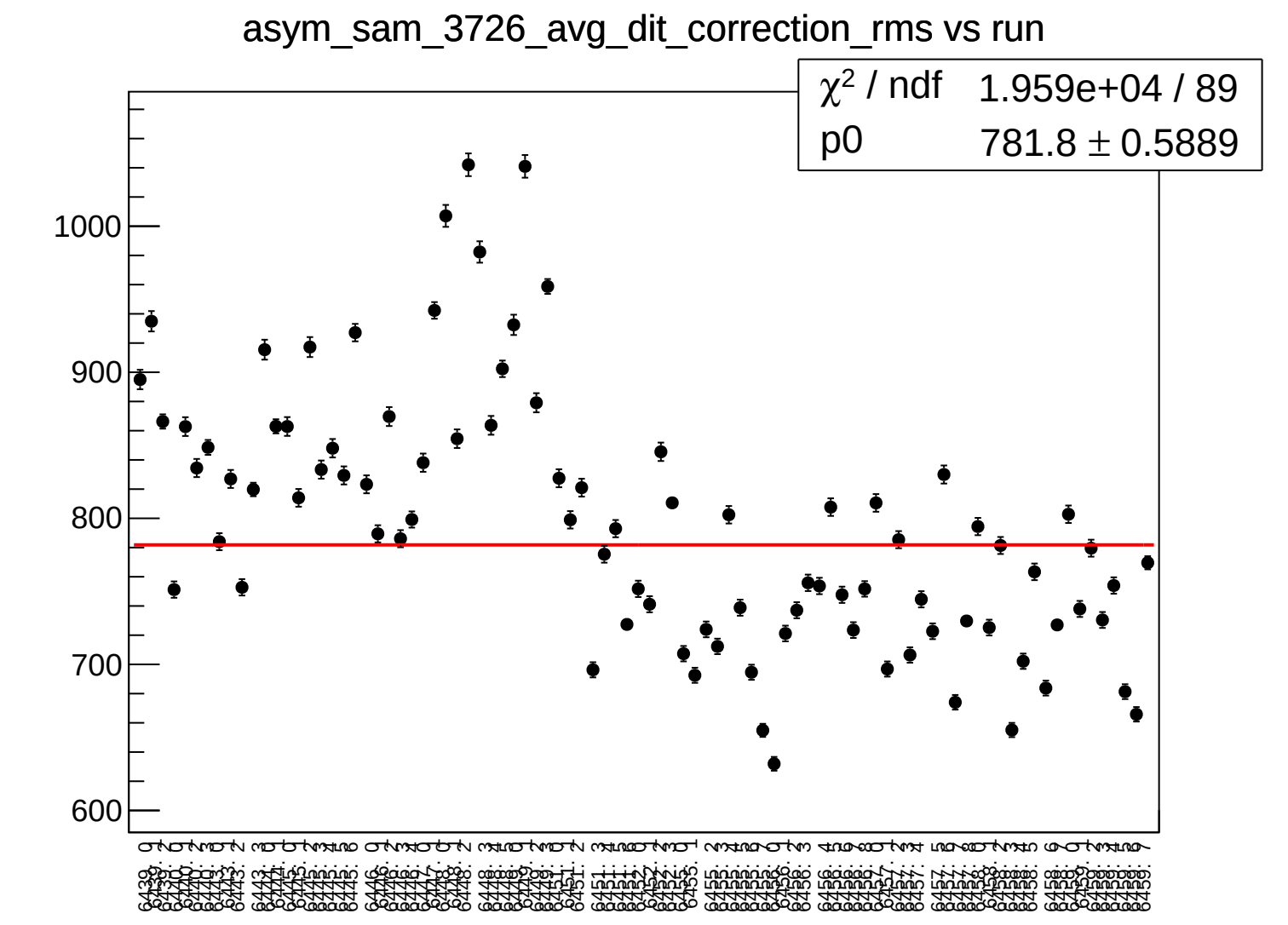

asym_sam_3726_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.444e+04 / 89
p0 779.3 ± 0.5878
1100
1000
900
800
700
600

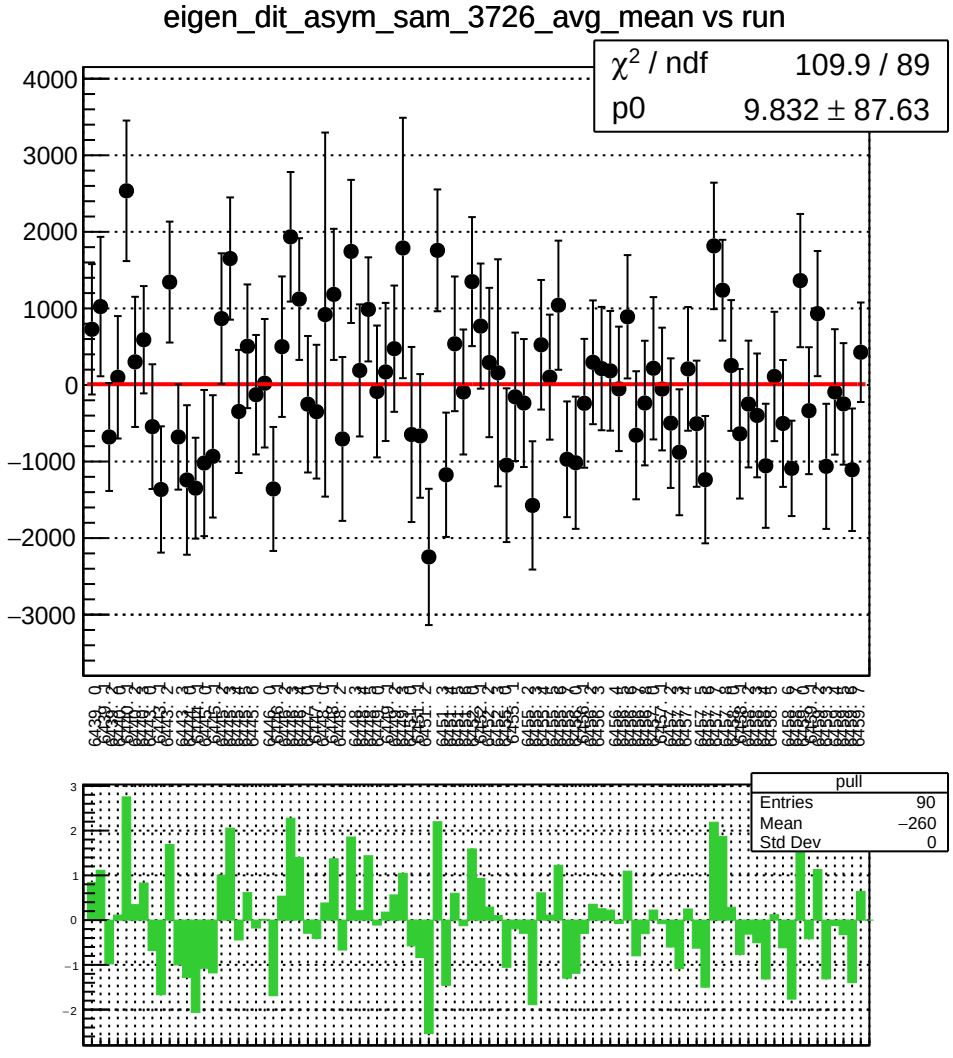

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 109.9 / 89
p0 9.828 ± 87.63
pull
Entries 90
Mean −260
Std Dev 0

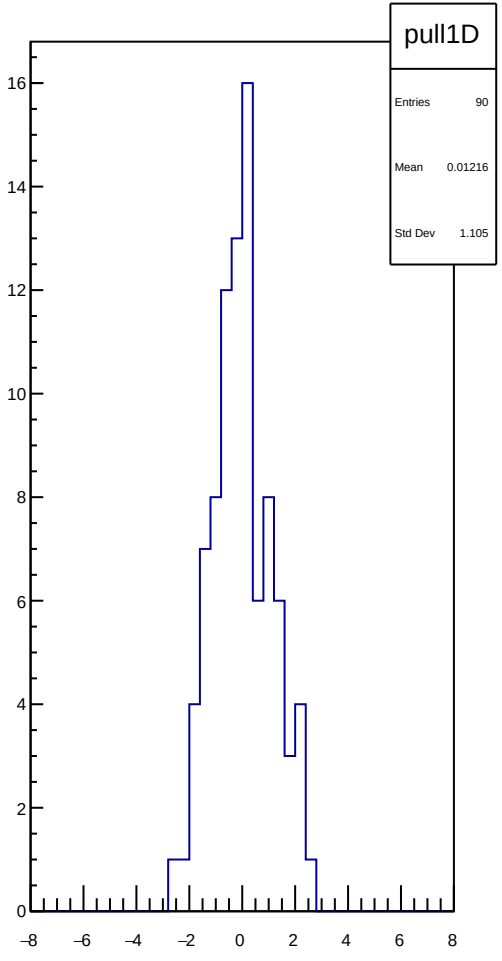

pull1D
Entries 90
Mean 0.01216
Std Dev 1.105

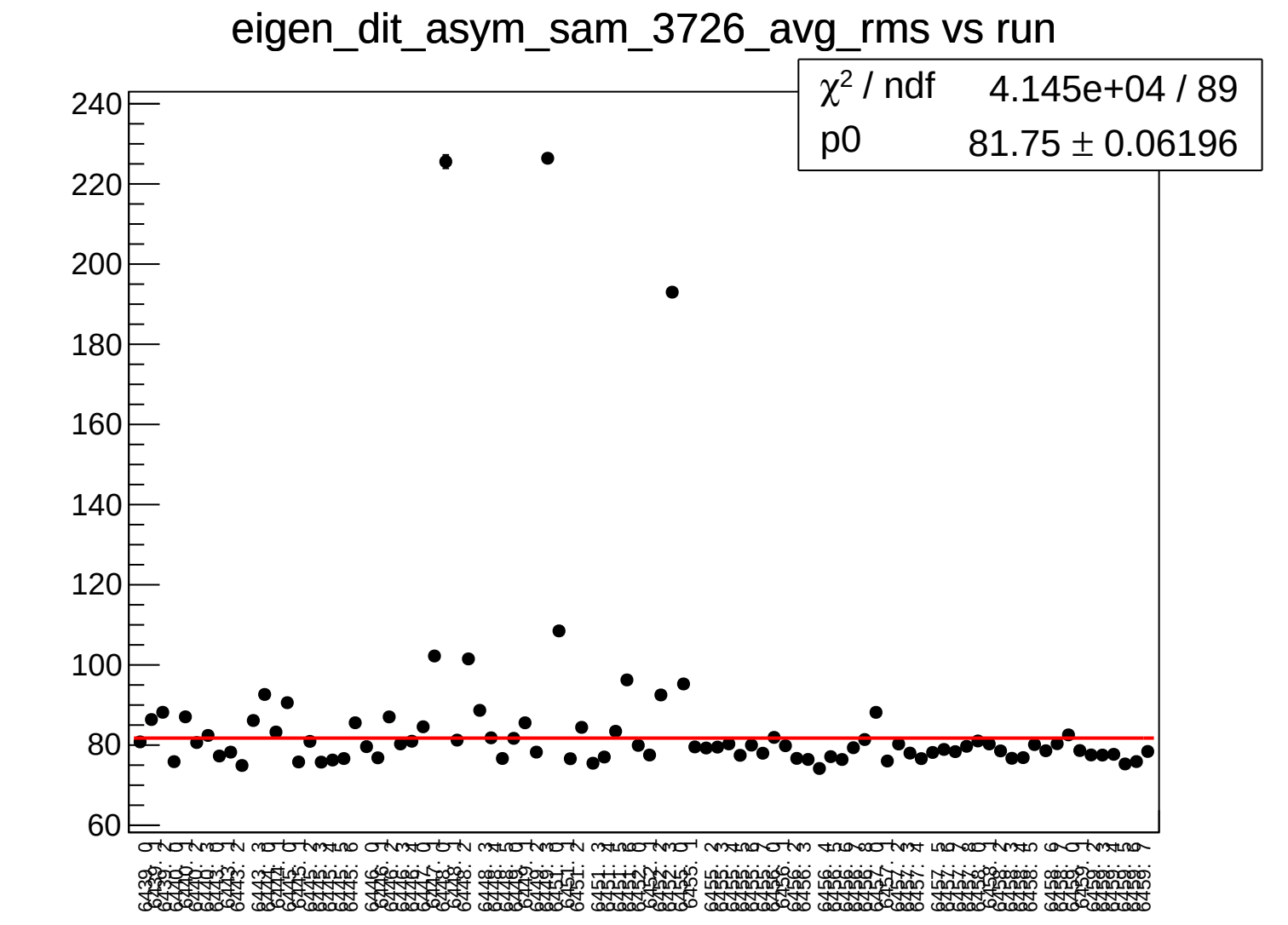

dit_asym_sam_3726_avg_rms vs run
χ² / ndf 4.145e+04 / 89
p0 81.75 ± 0.06196
240
220
200
180
160
140
120
100
80
60

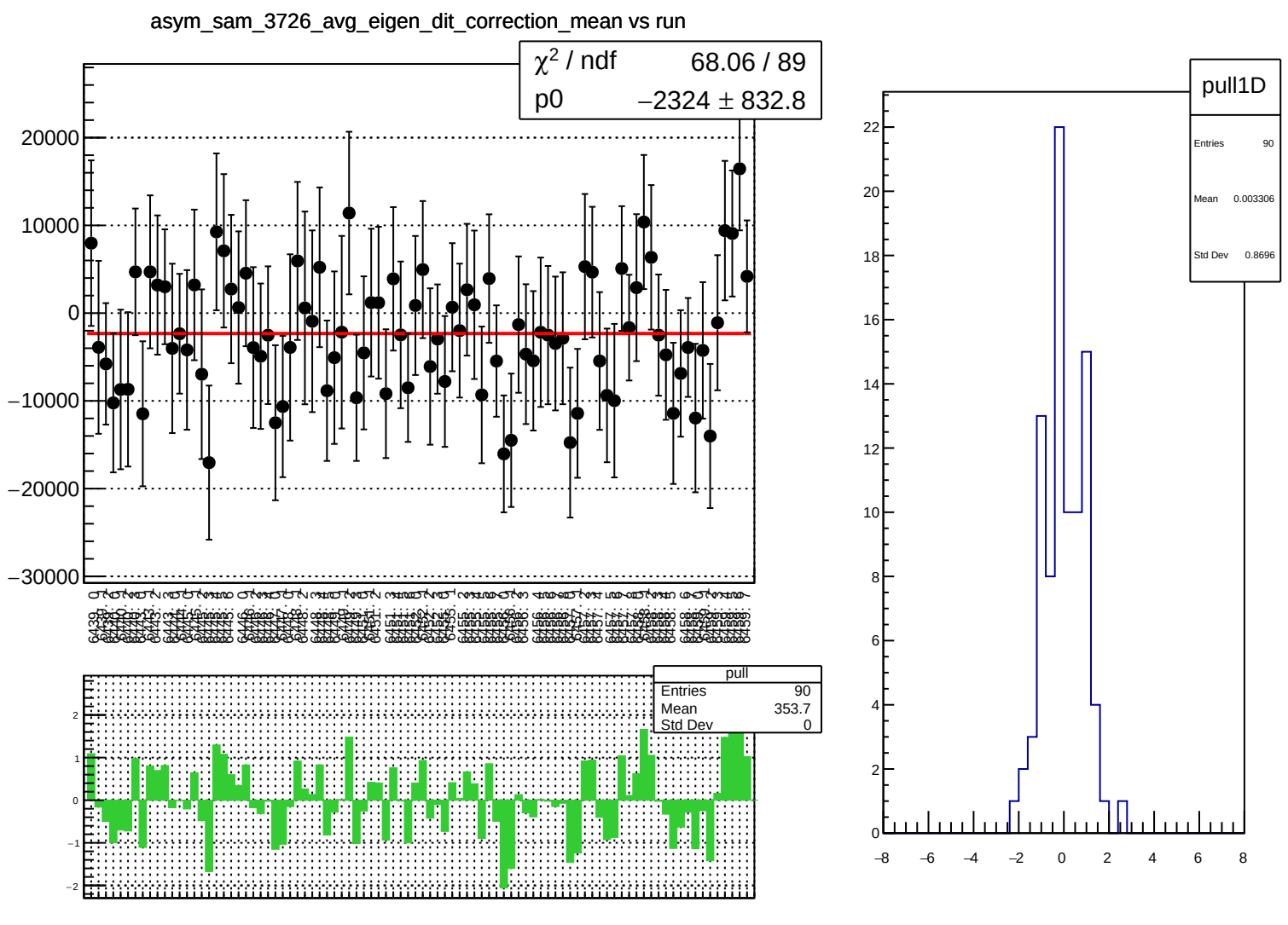

asym_sam_3726_avg_dit_correction_mean vs run
χ² / ndf 68.06 / 89
p0 −2324 ± 832.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean 353.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 90
Mean 0.003306
Std Dev 0.8696
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

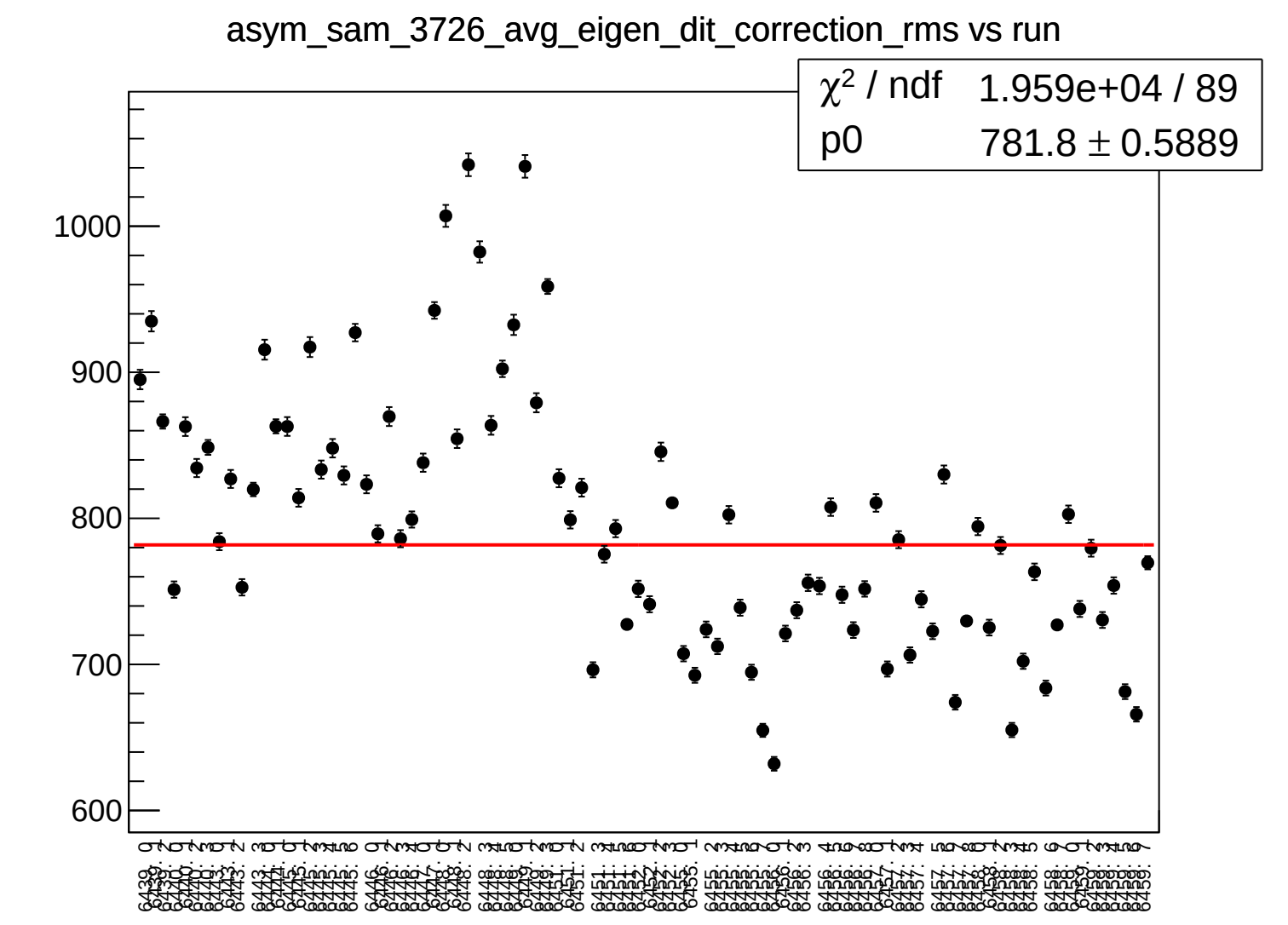

asym_sam_3726_avg_dit_correction_rms vs run
χ² / ndf 1.959e+04 / 89
p0 781.8 ± 0.5889
1000
900
800
700
600

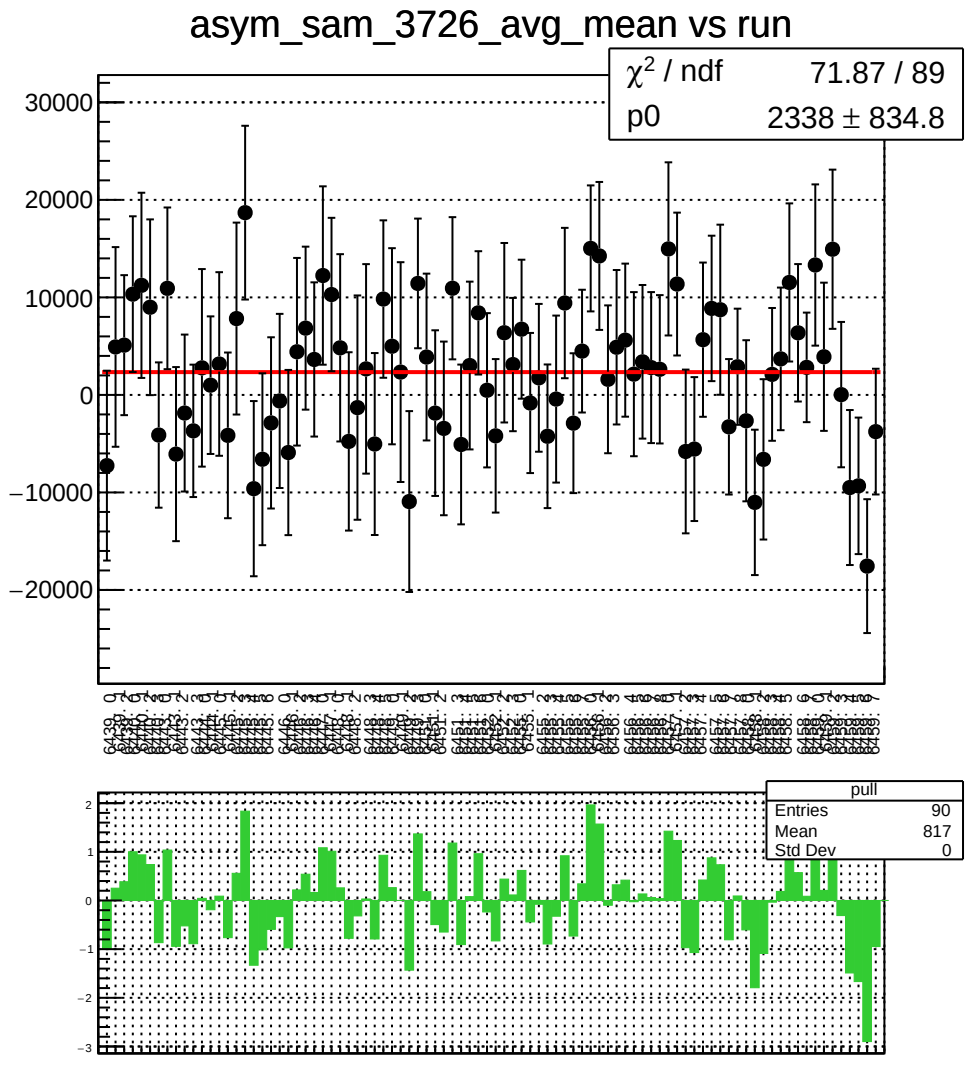

eigen_dit_asym_sam_3726_avg_mean vs run
χ^2 / ndf 109.9 / 89
p0 9.832 ± 87.63
pull
Entries 90
Mean −260
Std Dev 0

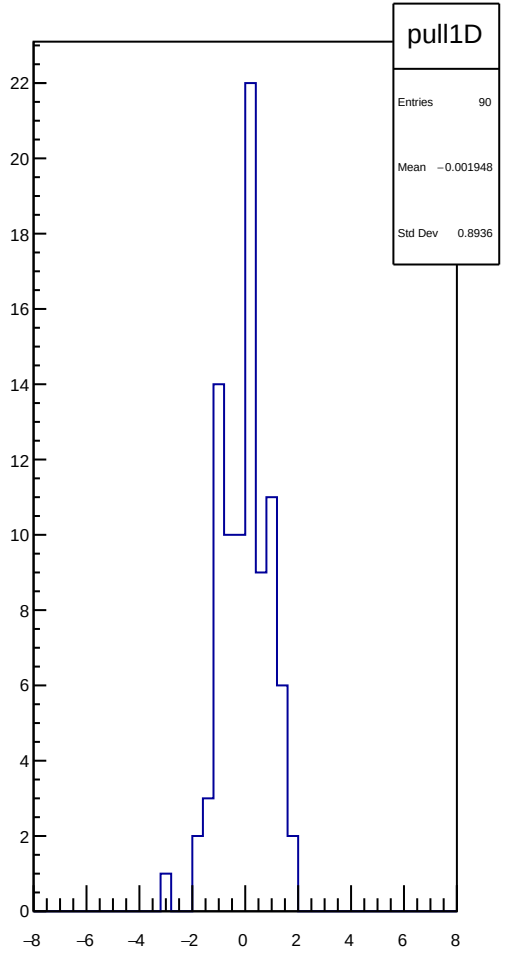

pull1D
Entries 90
Mean 0.01216
Std Dev 1.105

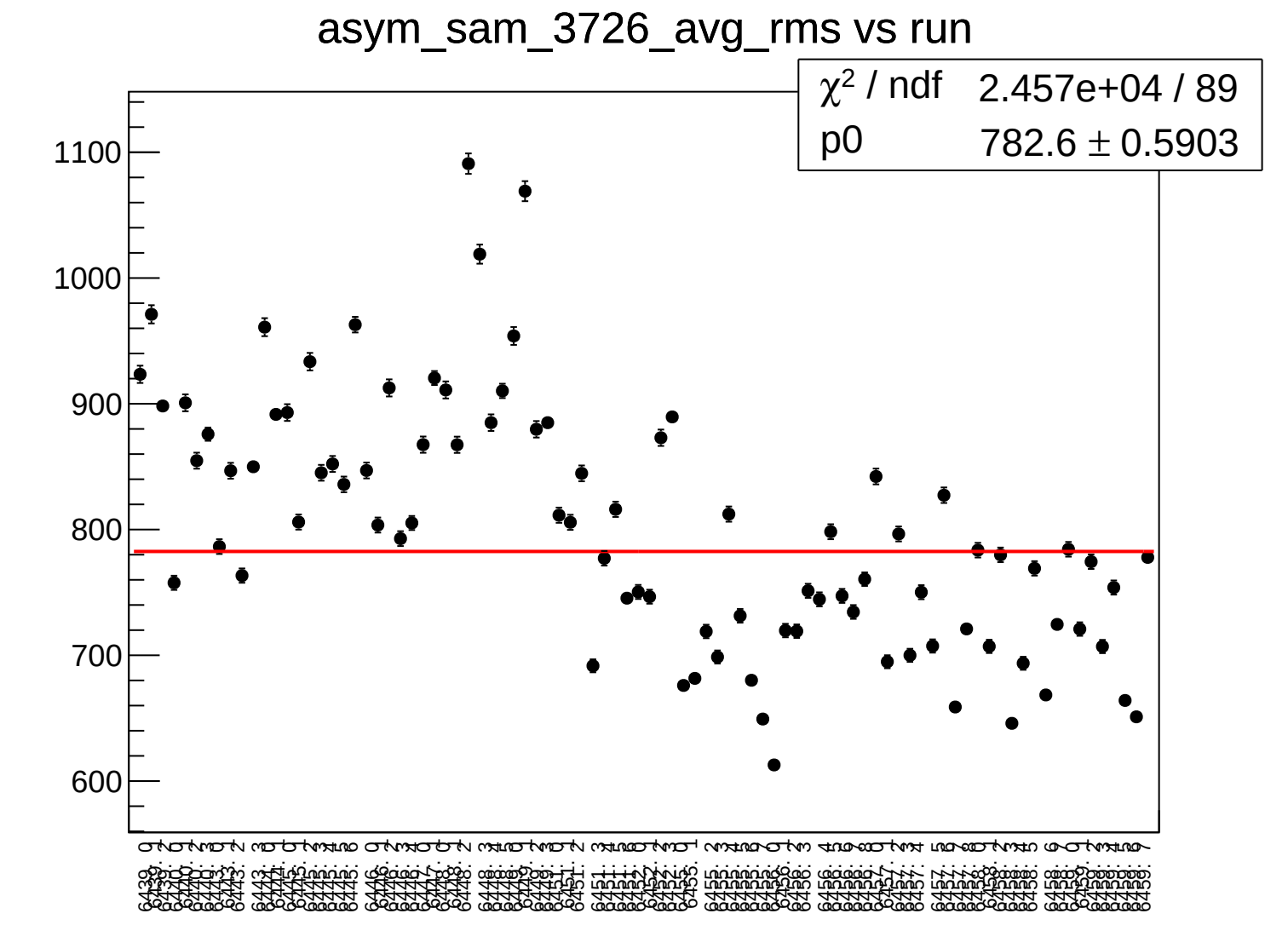

eigen_dit_asym_sam_3726_avg_rms vs run
χ² / ndf 4.145e+04 / 89
p0 81.75 ± 0.06196
240
220
200
180
160
140
120
100
80
60

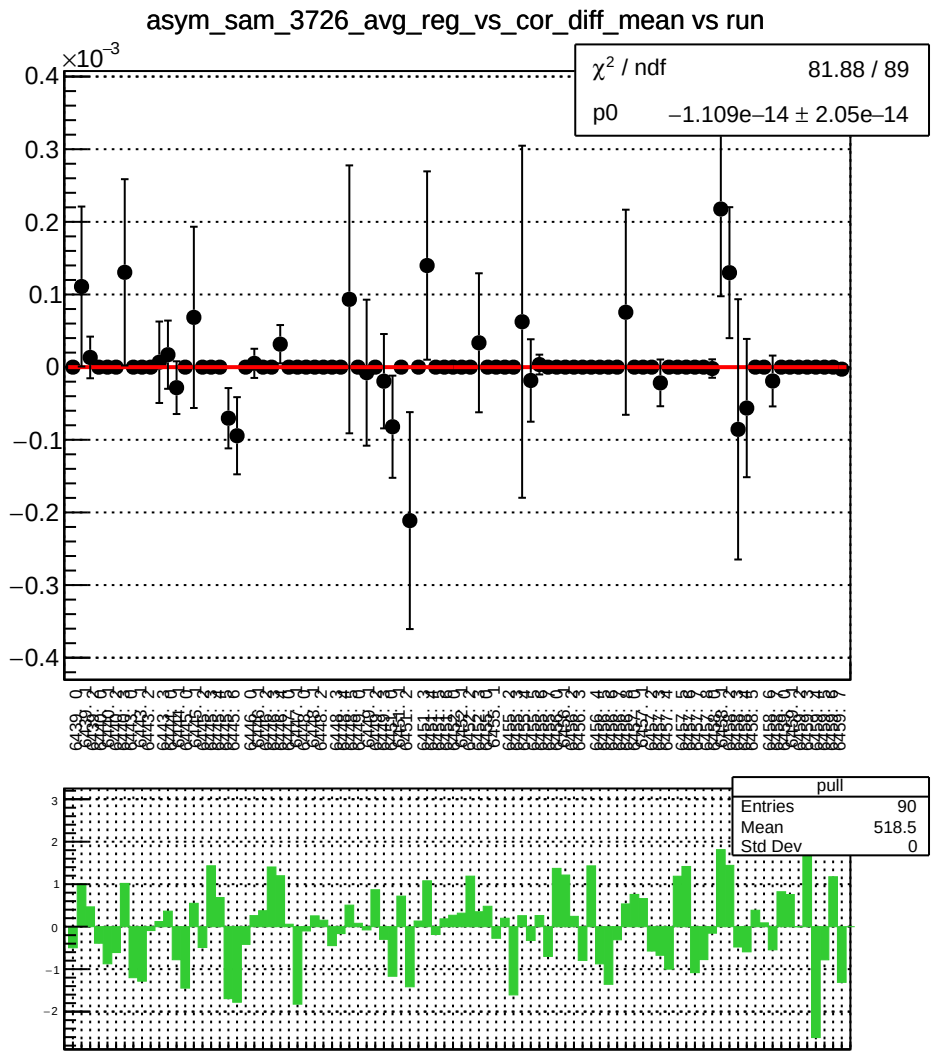

asym_sam_3726_avg_eigen_dit_correction_mean vs run
χ² / ndf 68.06 / 89
p0 −2324 ± 832.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean 353.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 90
Mean 0.003306
Std Dev 0.8696
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

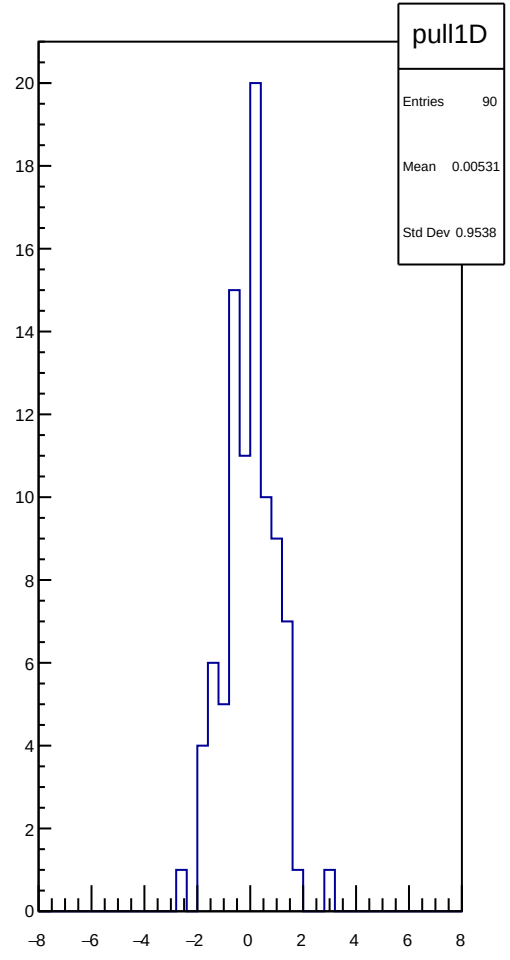

asym_sam_3726_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.959e+04 / 89
p0 781.8 ± 0.5889
1000
900
800
700
600

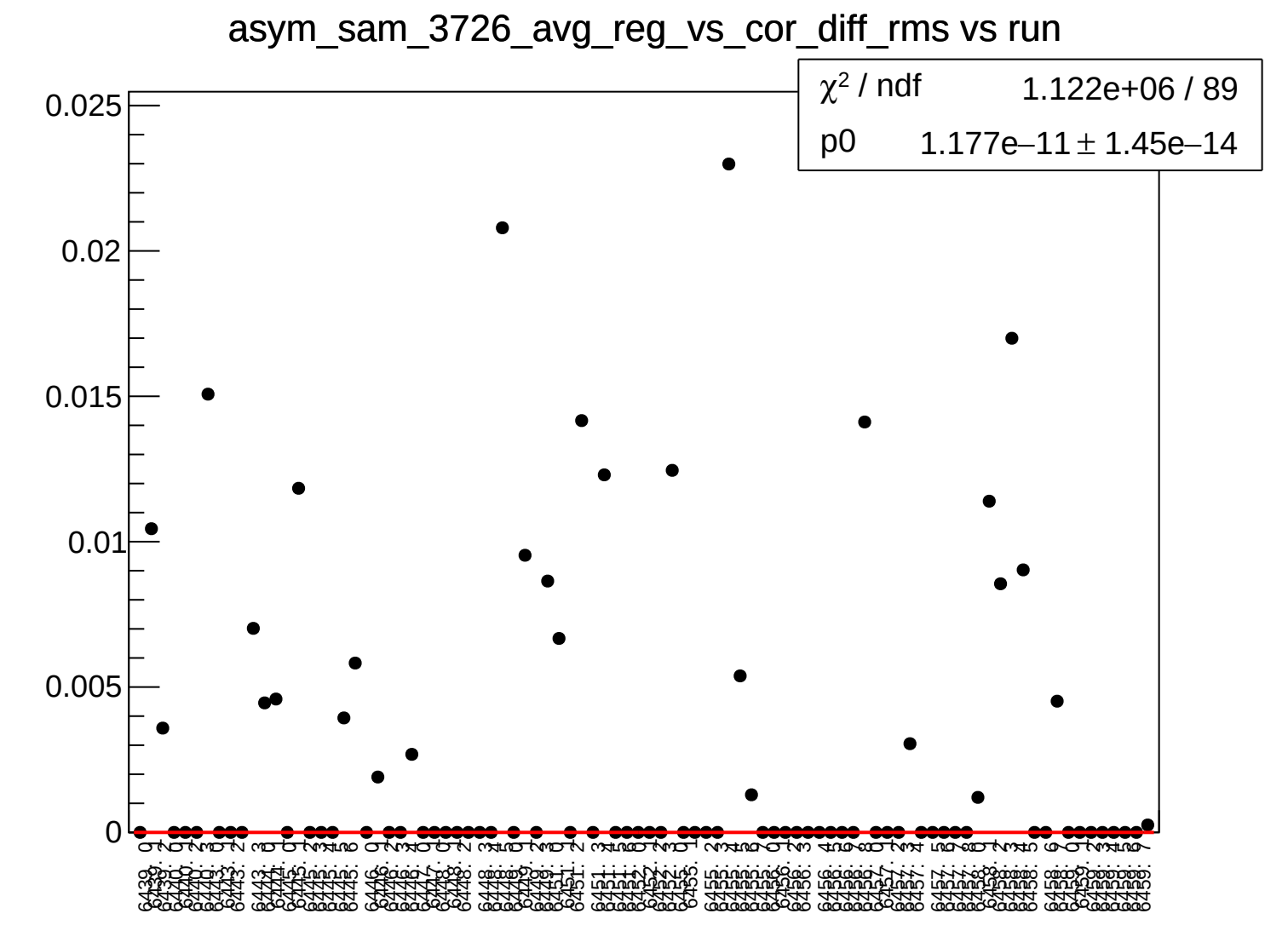

asym_sam_3726_avg_mean vs run
χ² / ndf 71.87 / 89
p0 2338 ± 834.8
30000
20000
10000
0
−10000
−20000
pull
Entries 90
Mean 817
Std Dev 0
2
1
0
−1
−2
−3

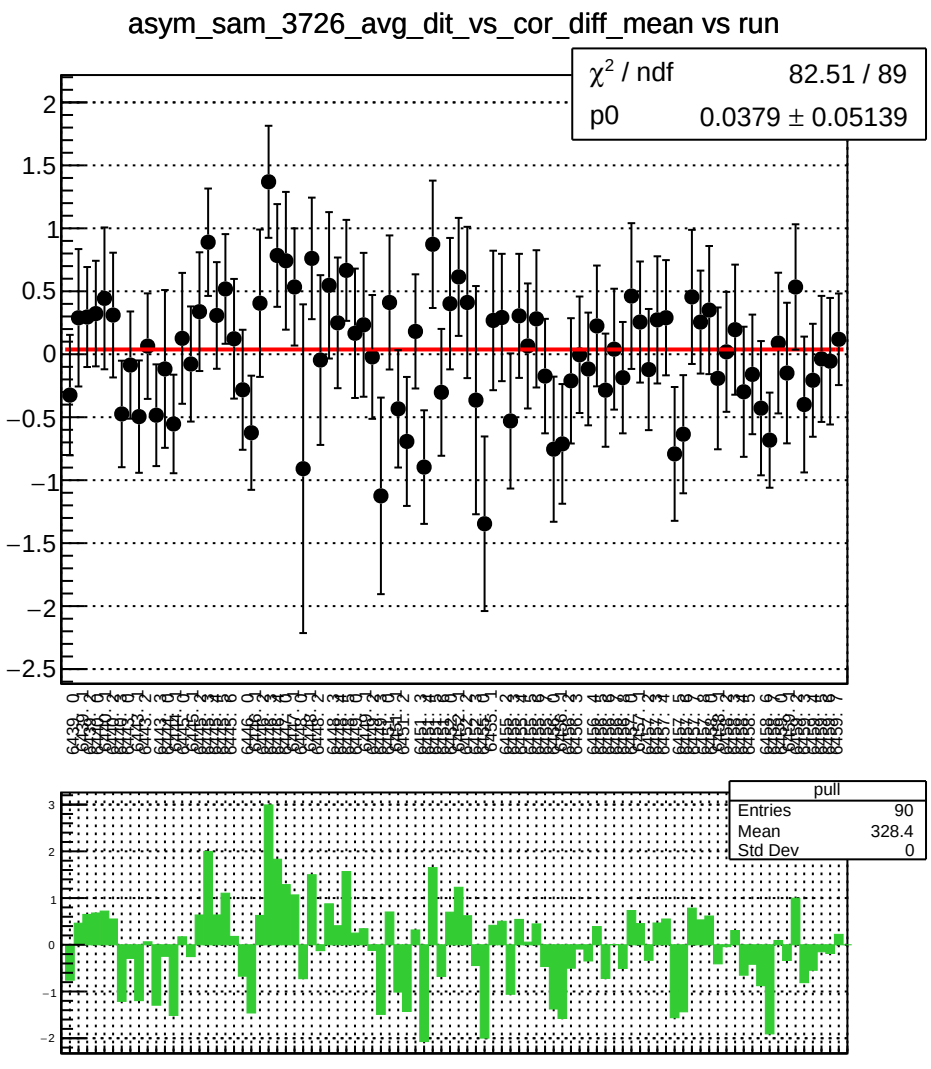

pull1D
Entries 90
Mean −0.001948
Std Dev 0.8936
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

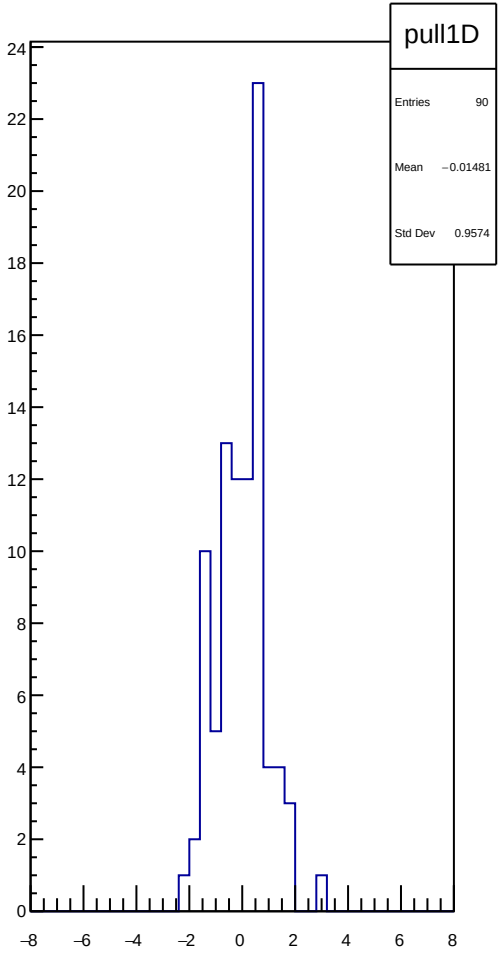

asym_sam_3726_avg_rms vs run
χ² / ndf 2.457e+04 / 89
p0 782.6 ± 0.5903
1100
1000
900
800
700
600

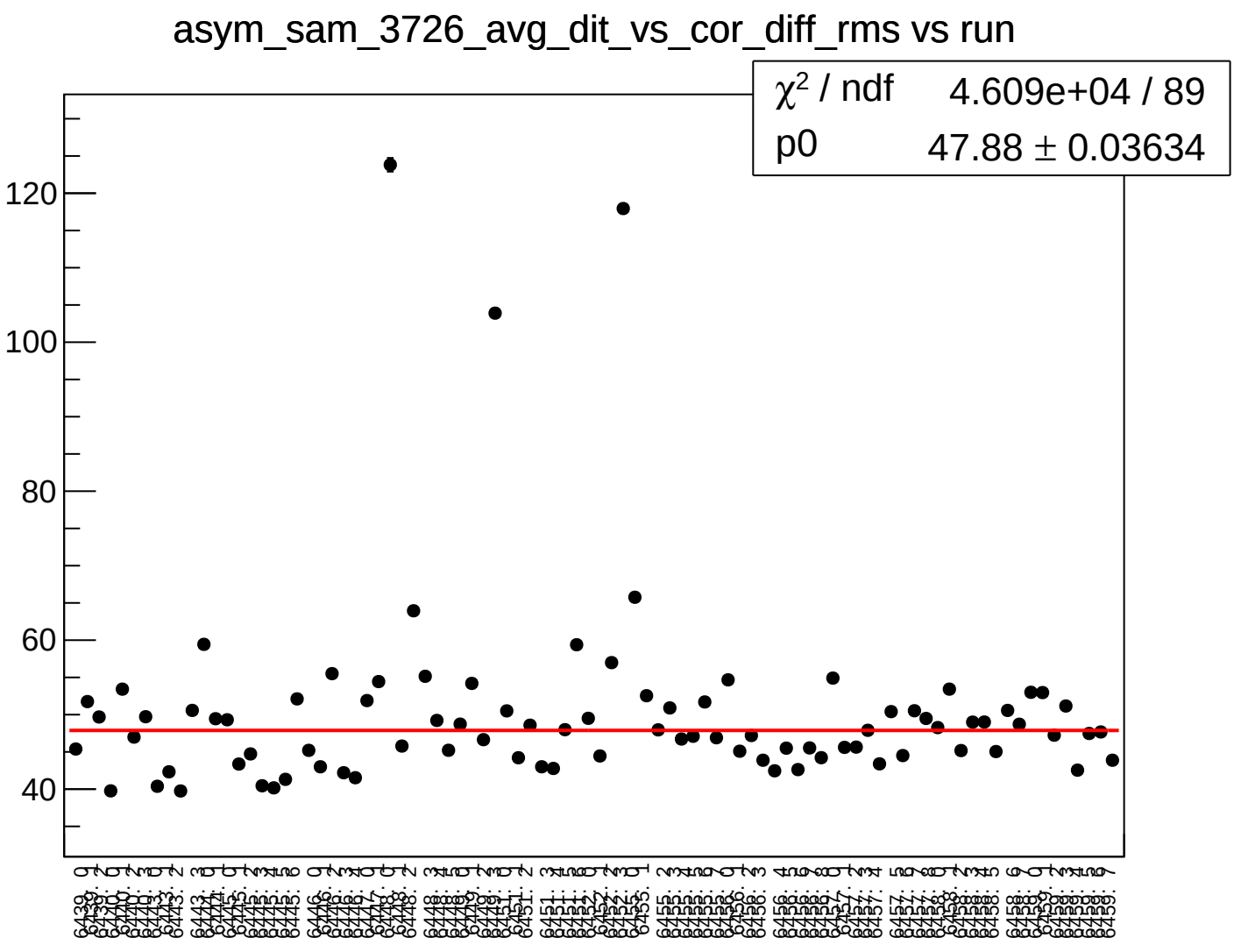

asym_sam_3726_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 81.88 / 89
p0 −1.109e−14 ± 2.05e−14
pull
Entries 90
Mean 518.5
Std Dev 0

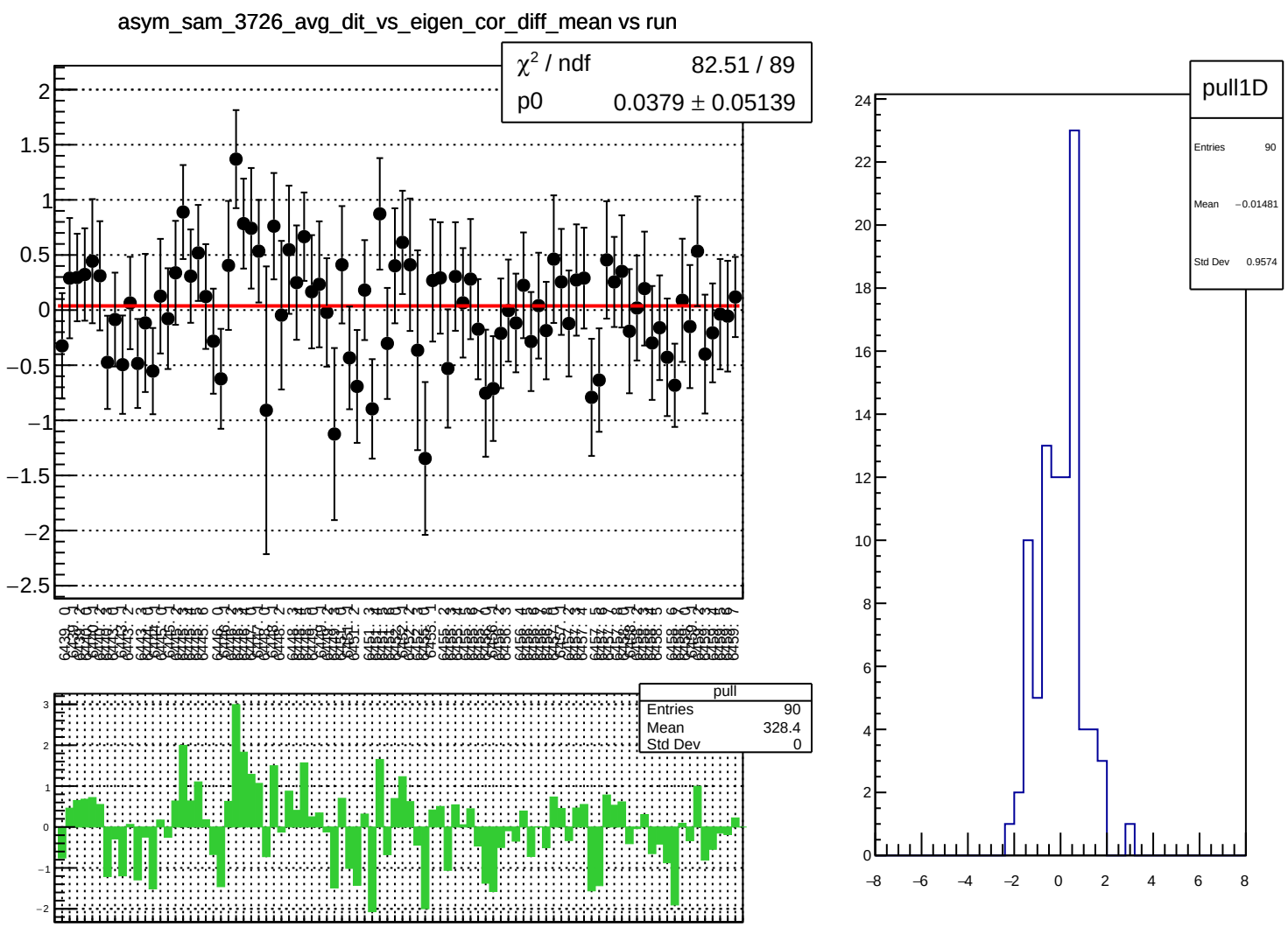

pull1D
Entries 90
Mean 0.00531
Std Dev 0.9538

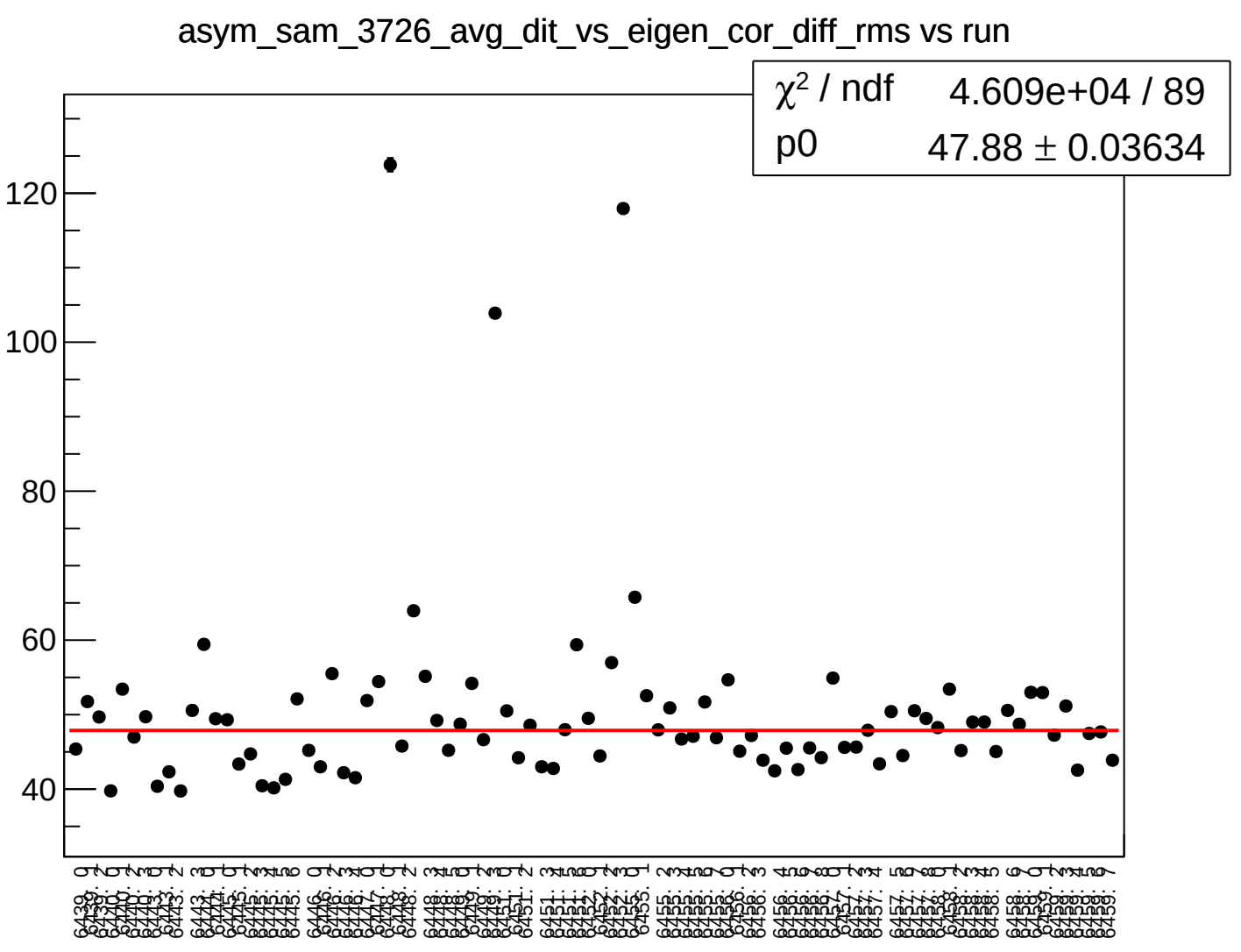

asym_sam_3726_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.122e+06 / 89
p0 1.177e−11 ± 1.45e−14
0.025
0.02
0.015
0.01
0.005
0

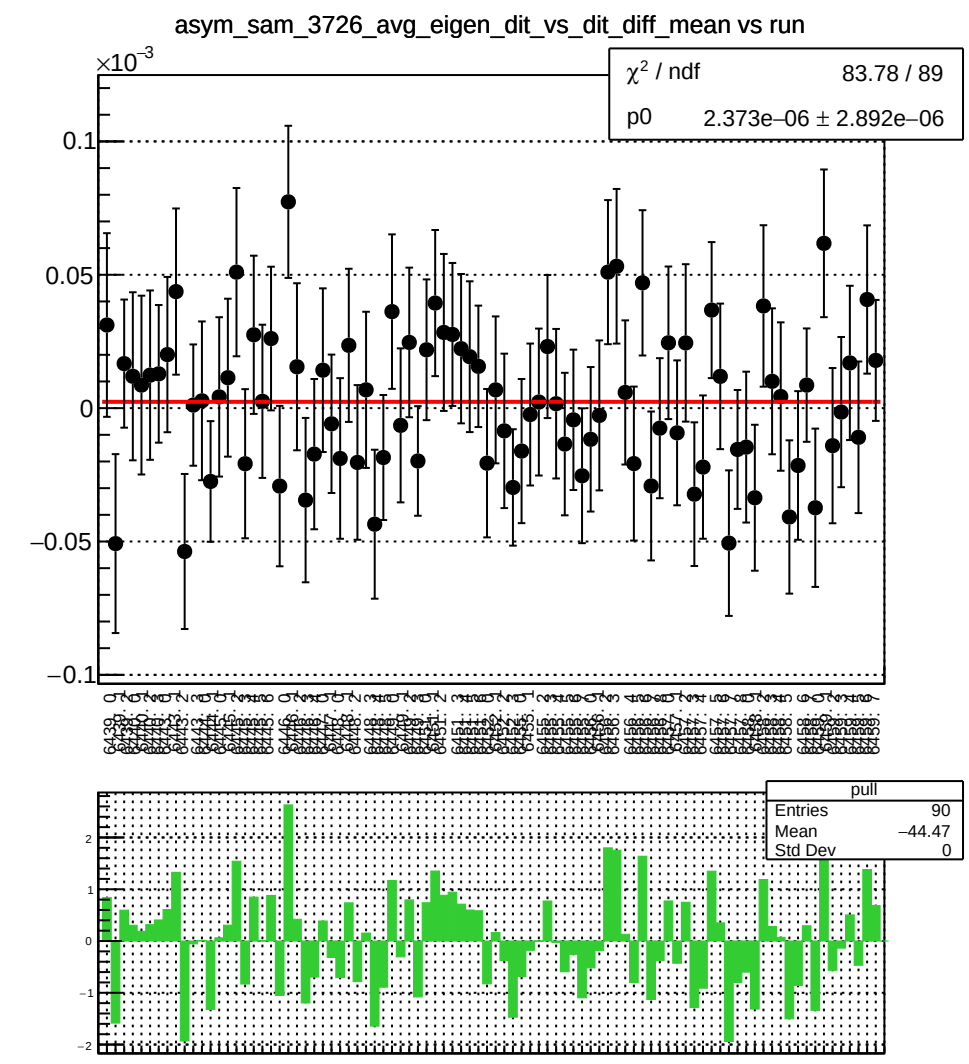

asym_sam_3726_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 82.51 / 89
p0 0.0379 ± 0.05139
pull
Entries 90
Mean 328.4
Std Dev 0

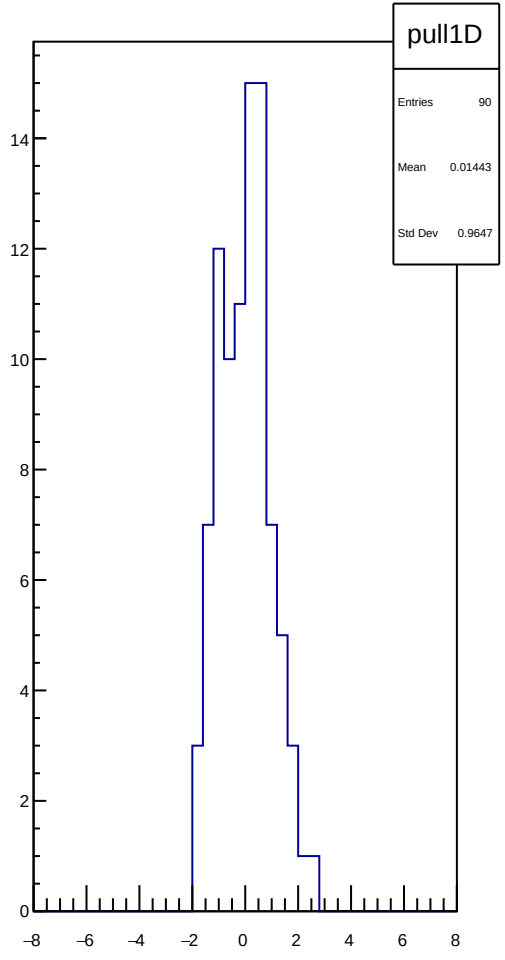

pull1D
Entries 90
Mean −0.01481
Std Dev 0.9574

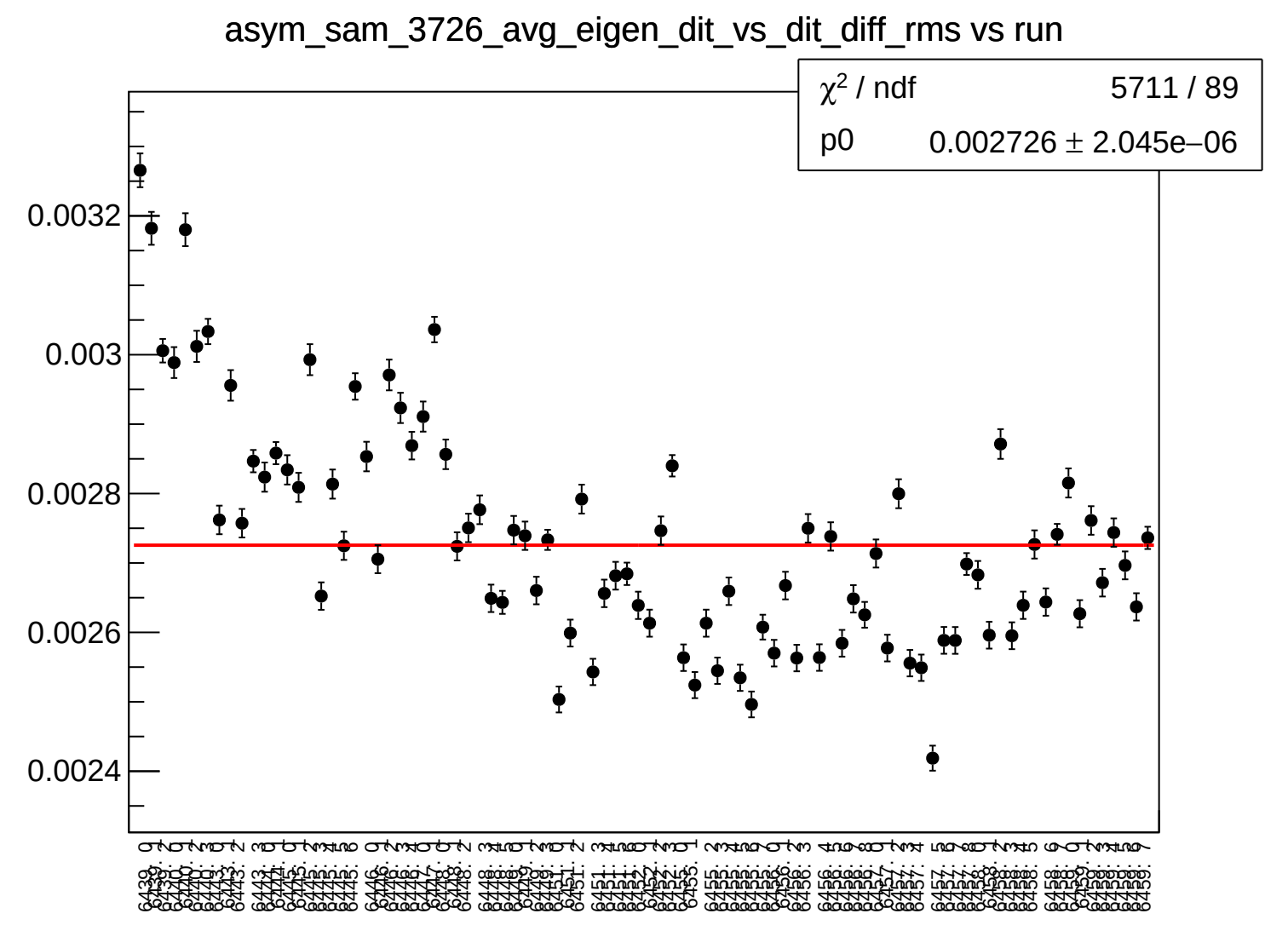

asym_sam_3726_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.609e+04 / 89
p0 47.88 ± 0.03634
120
100
80
60
40

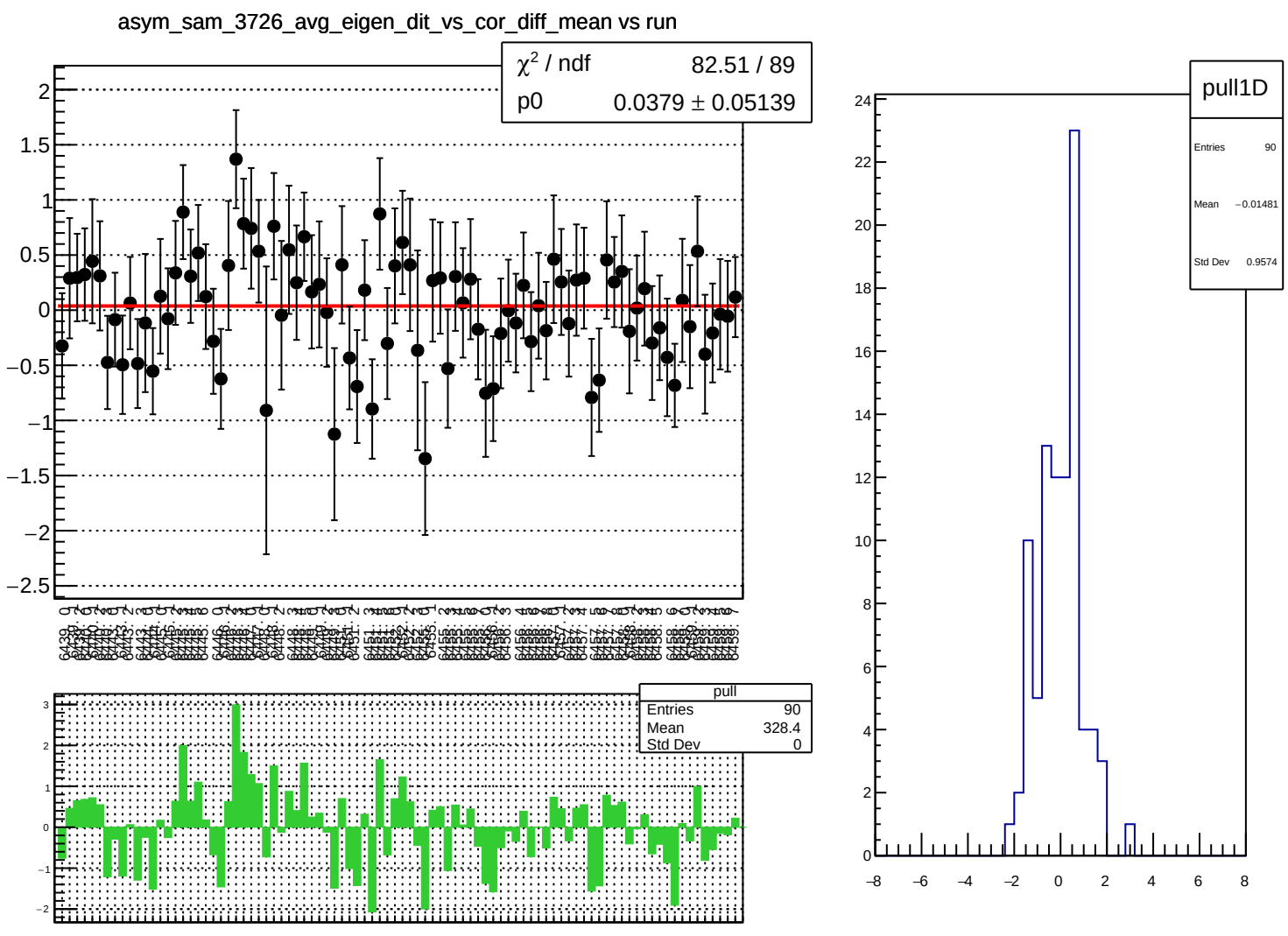

asym_sam_3726_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.51 / 89
p0 0.0379 ± 0.05139
pull
Entries 90
Mean 328.4
Std Dev 0
pull1D
Entries 90
Mean −0.01481
Std Dev 0.9574

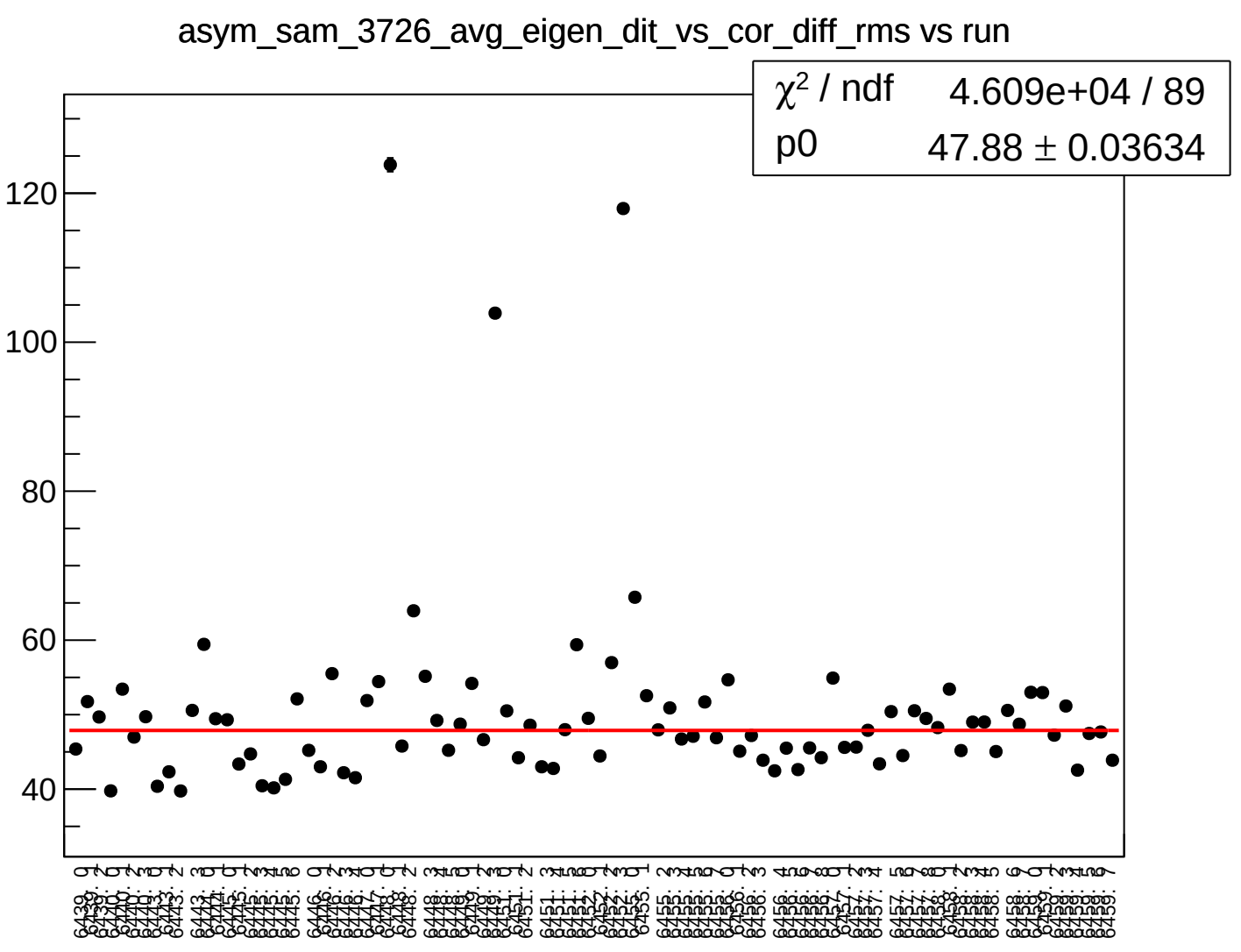

asym_sam_3726_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.609e+04 / 89
p0 47.88 ± 0.03634
120
100
80
60
40

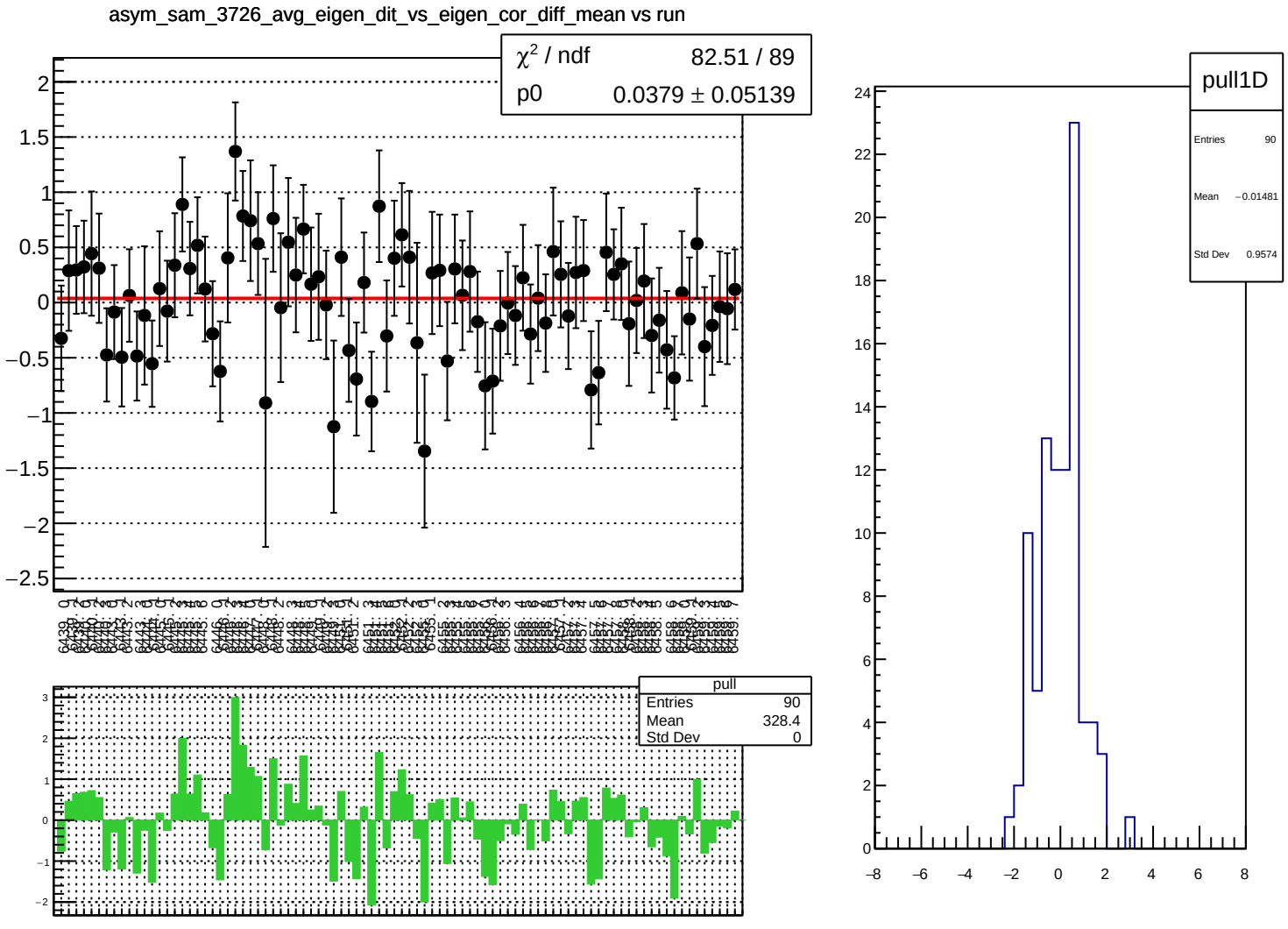

asym_sam_3726_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 83.78 / 89
p0 2.373e−06 ± 2.892e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 90
Mean −44.47
Std Dev 0
2
1
0
−1
−2

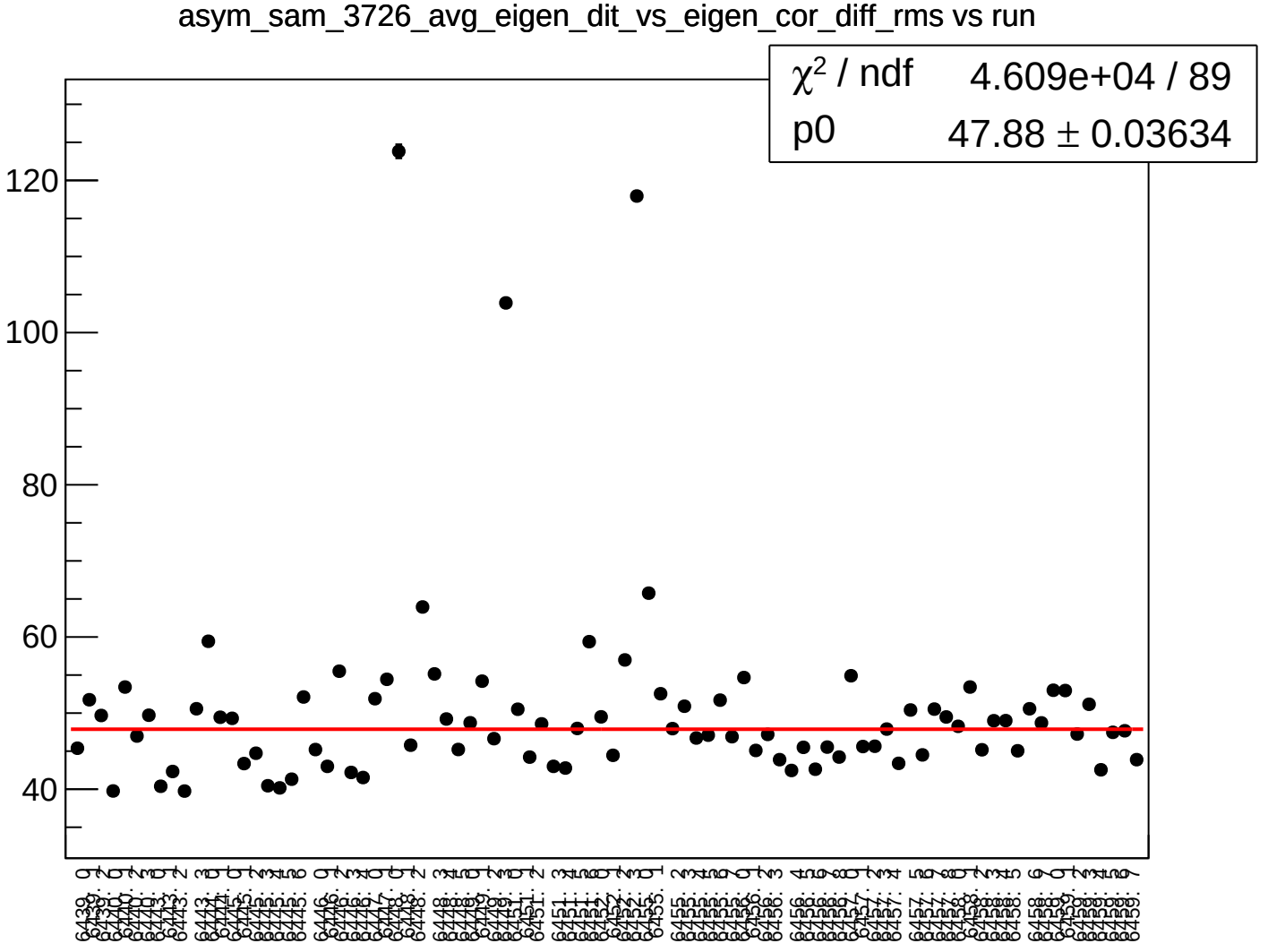

pull1D
Entries 90
Mean 0.01443
Std Dev 0.9647
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

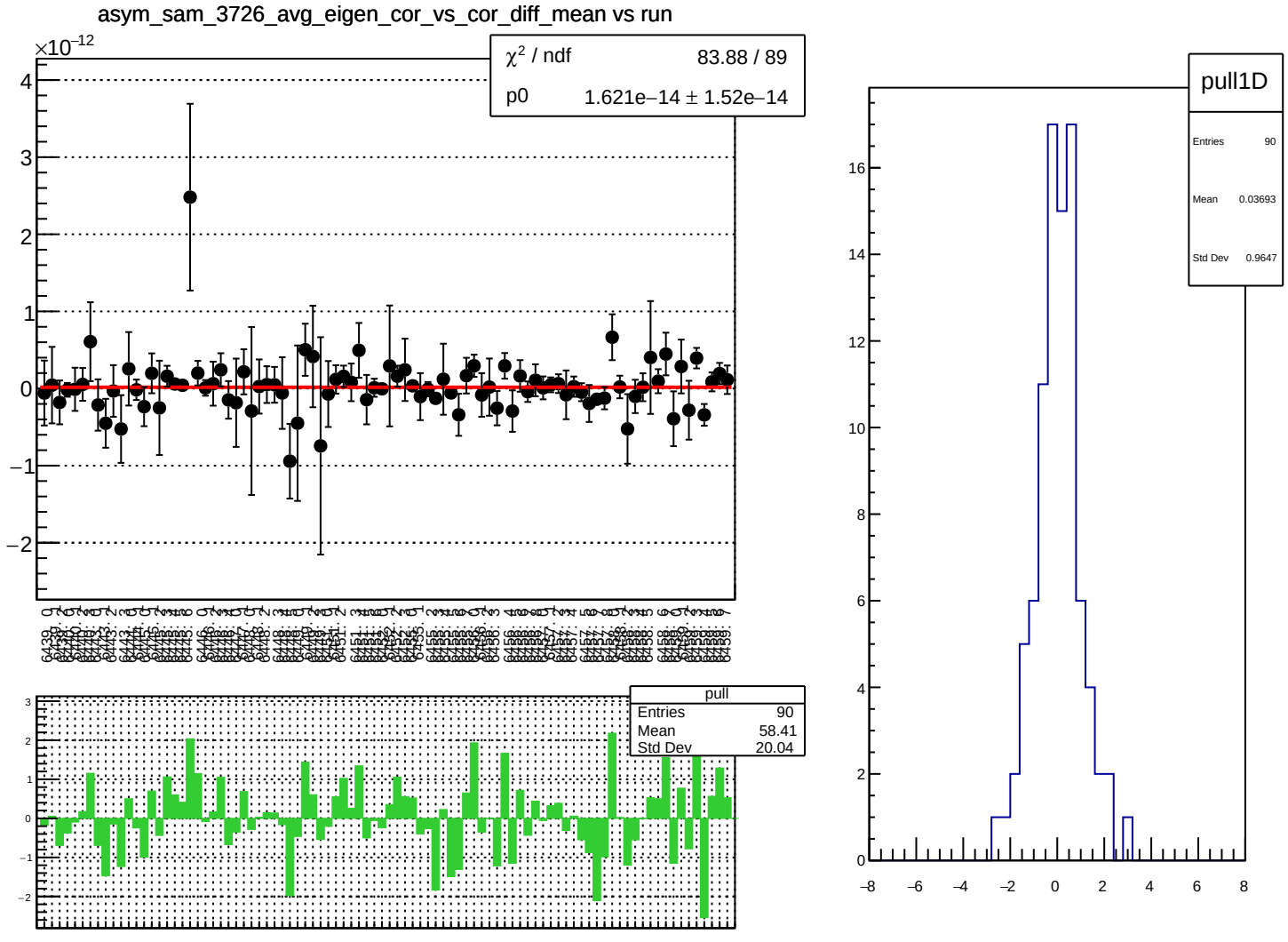

asym_sam_3726_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5711 / 89
p0 0.002726 ± 2.045e−06
0.0032
0.003
0.0028
0.0026
0.0024

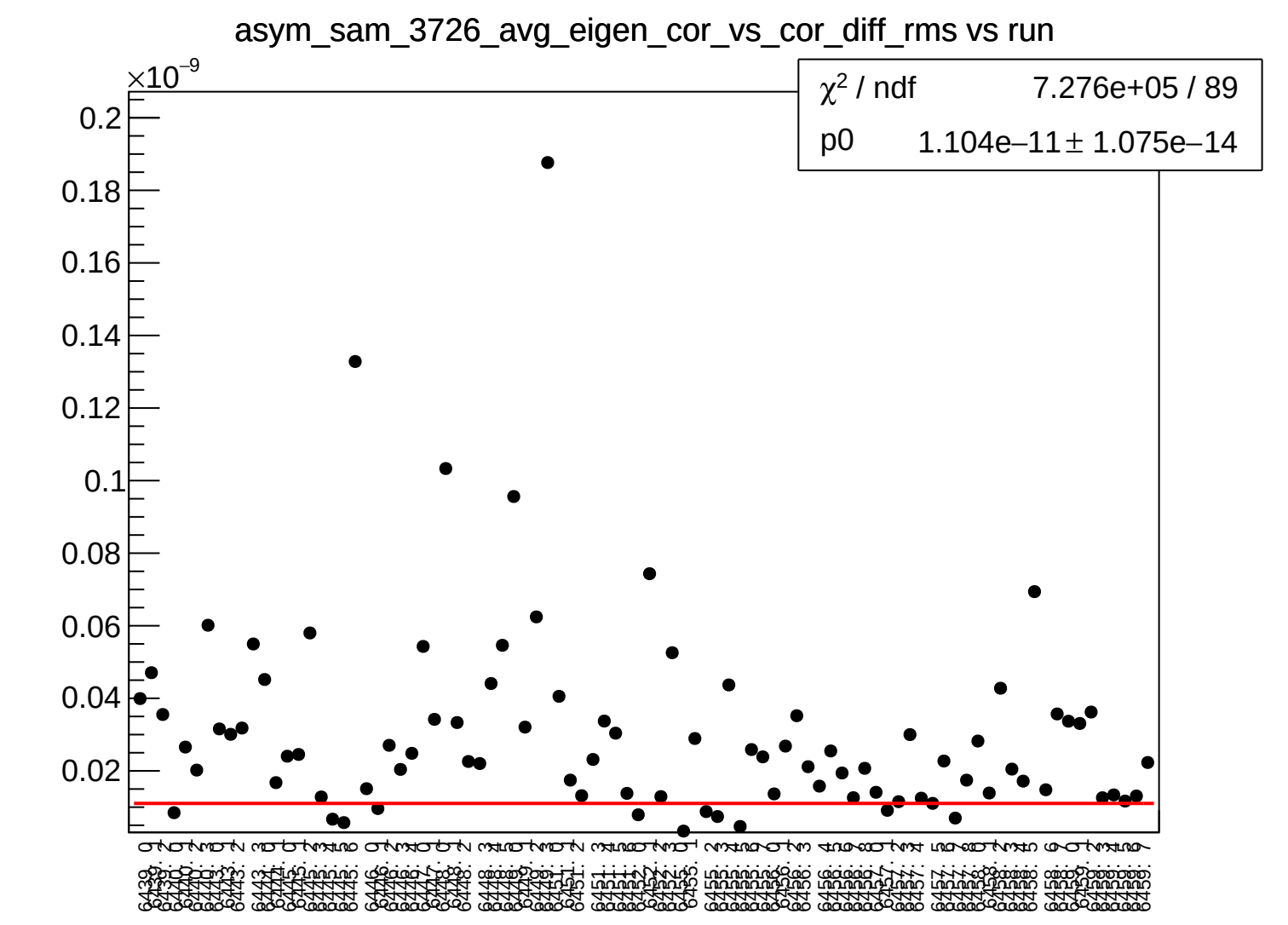

asym_sam_3726_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.51 / 89
p0 0.0379 ± 0.05139
pull
Entries 90
Mean 328.4
Std Dev 0
pull1D
Entries 90
Mean −0.01481
Std Dev 0.9574

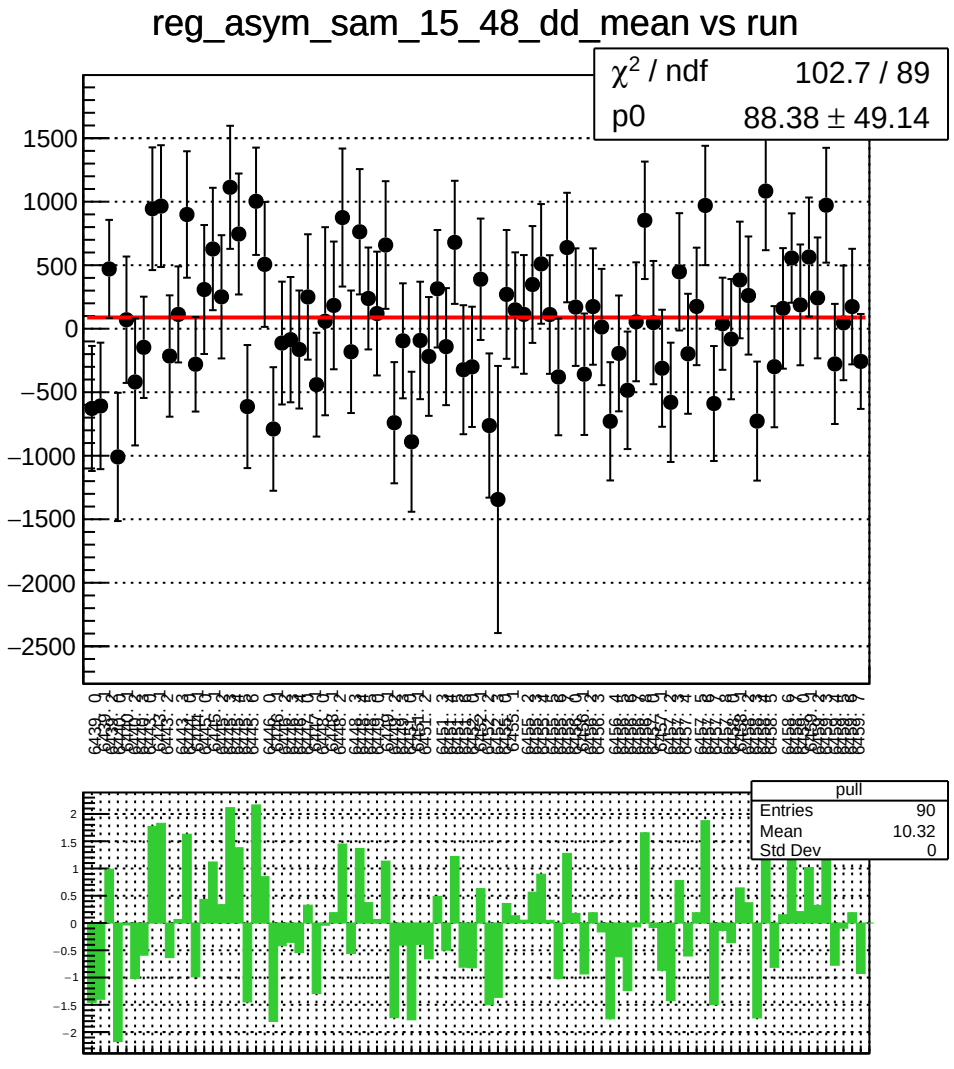

asym_sam_3726_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.609e+04 / 89
p0 47.88 ± 0.03634
120
100
80
60
40

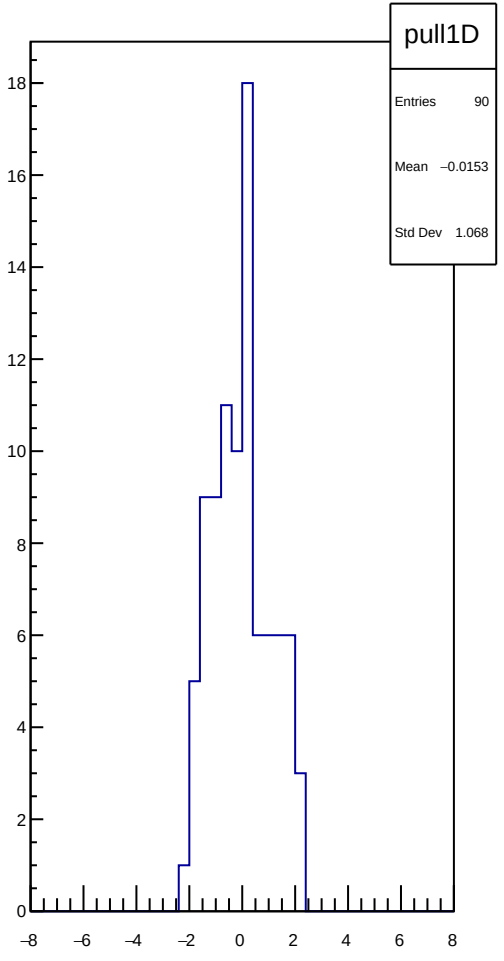

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.51 / 89
p0 0.0379 ± 0.05139
pull
Entries 90
Mean 328.4
Std Dev 0
pull1D
Entries 90
Mean −0.01481
Std Dev 0.9574

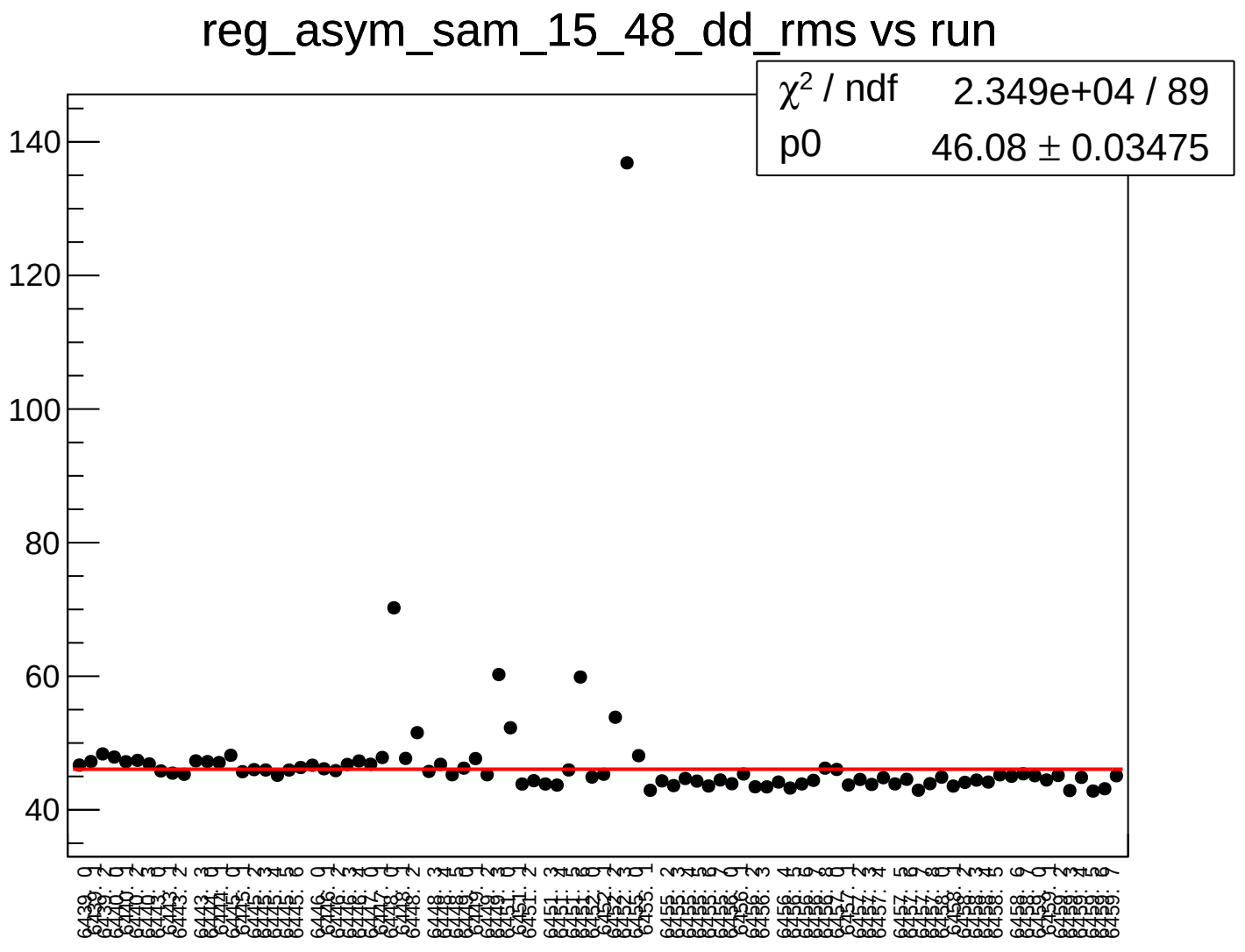

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.609e+04 / 89
p0 47.88 ± 0.03634
120
100
80
60
40

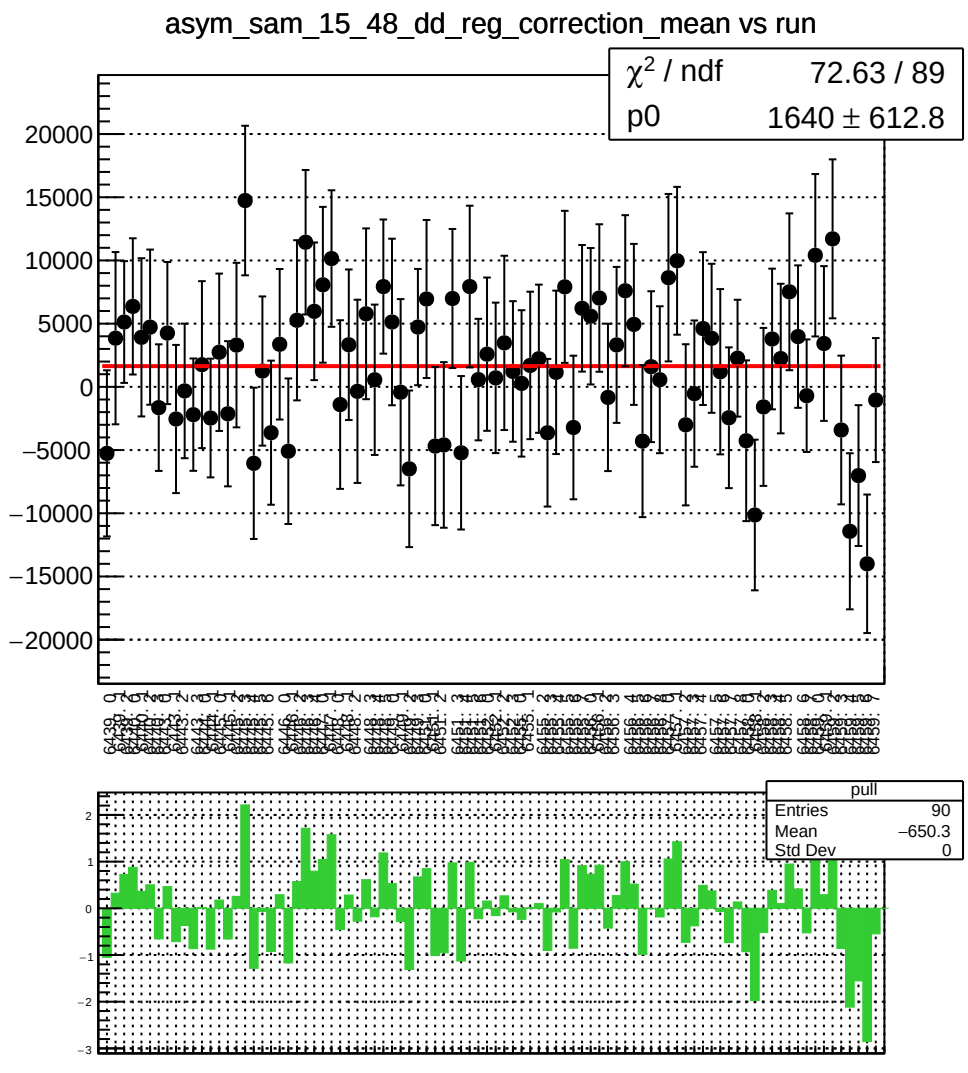

asym_sam_3726_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.88 / 89
p0 1.621e−14 ± 1.52e−14
pull
Entries 90
Mean 58.41
Std Dev 20.04
pull1D
Entries 90
Mean 0.03693
Std Dev 0.9647

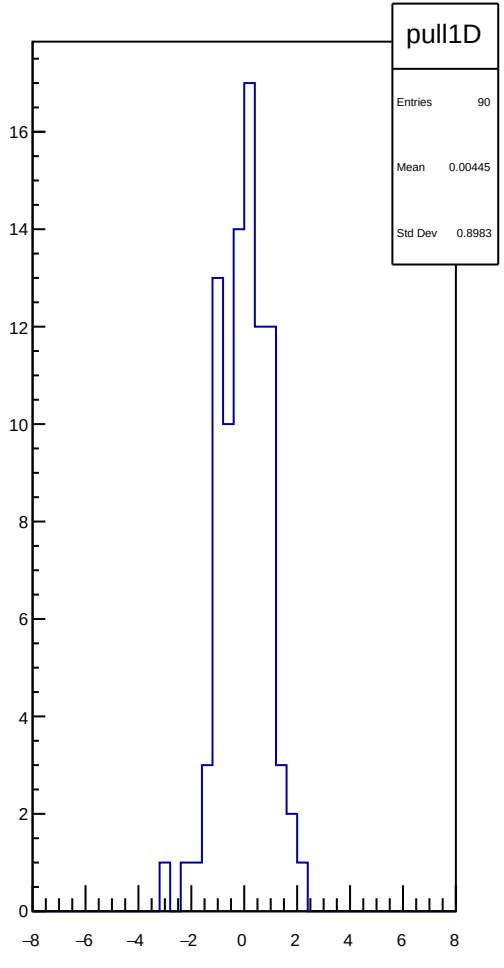

asym_sam_3726_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.276e+05 / 89
p0 1.104e−11 ± 1.075e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

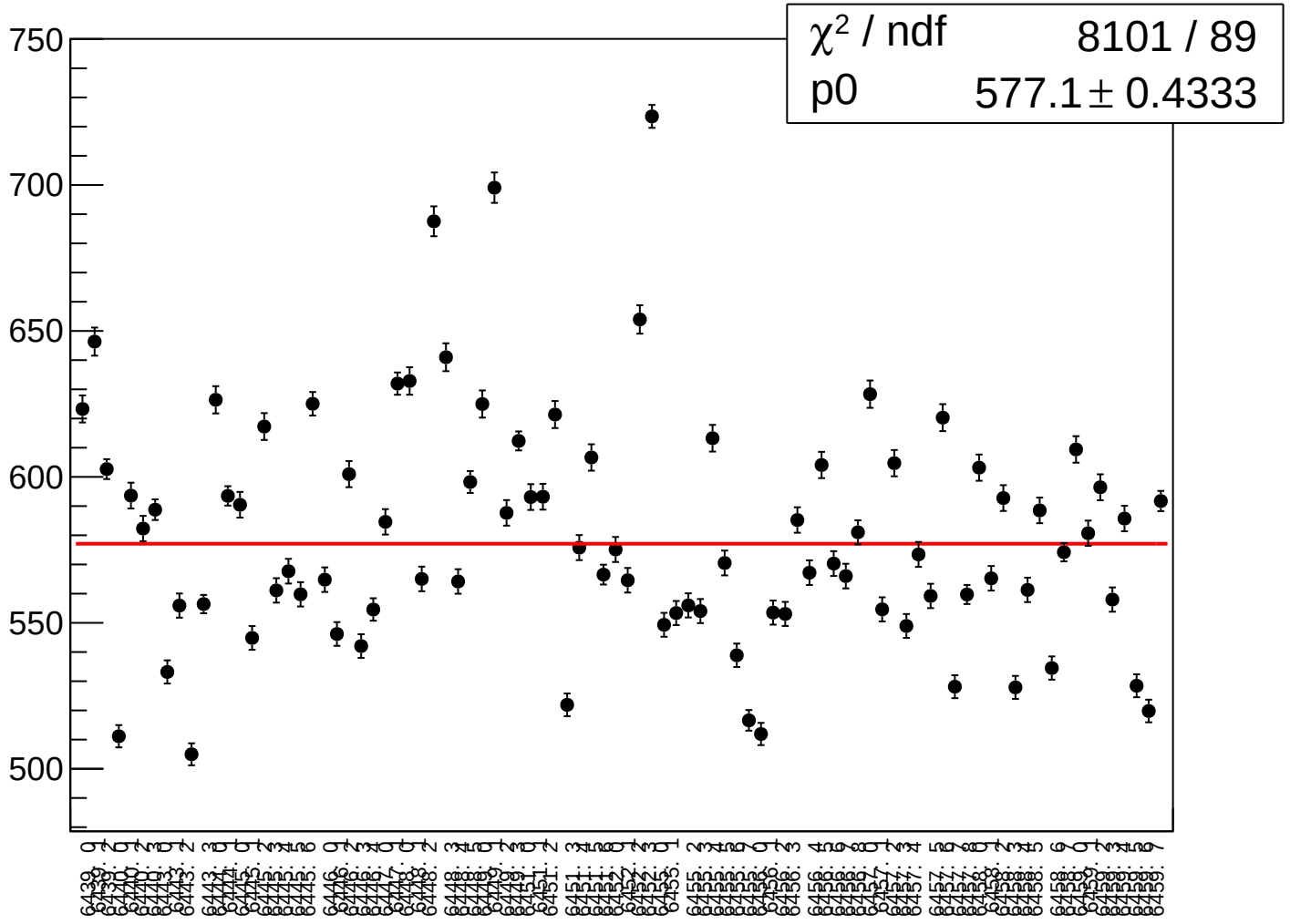

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 102.7 / 89
p0 88.38 ± 49.14
pull
Entries 90
Mean 10.32
Std Dev 0

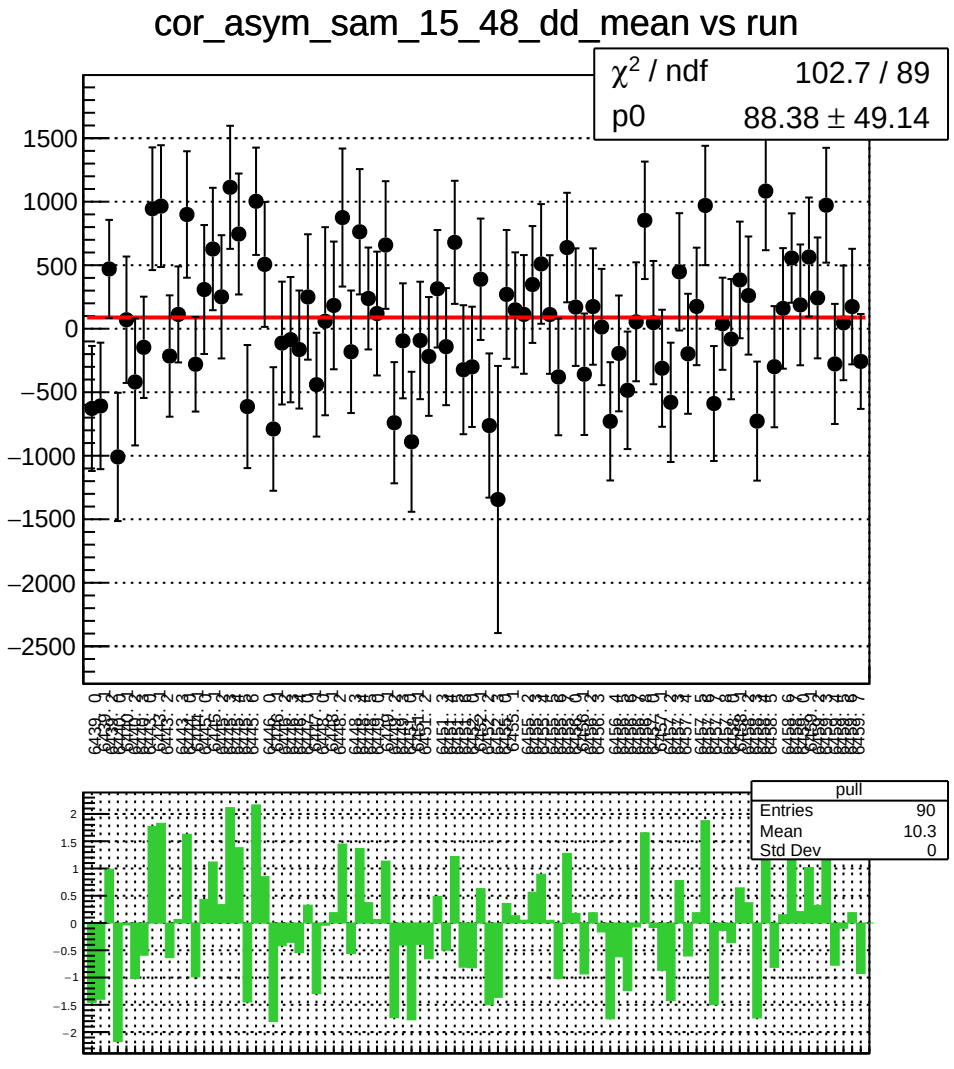

pull1D
Entries 90
Mean −0.0153
Std Dev 1.068

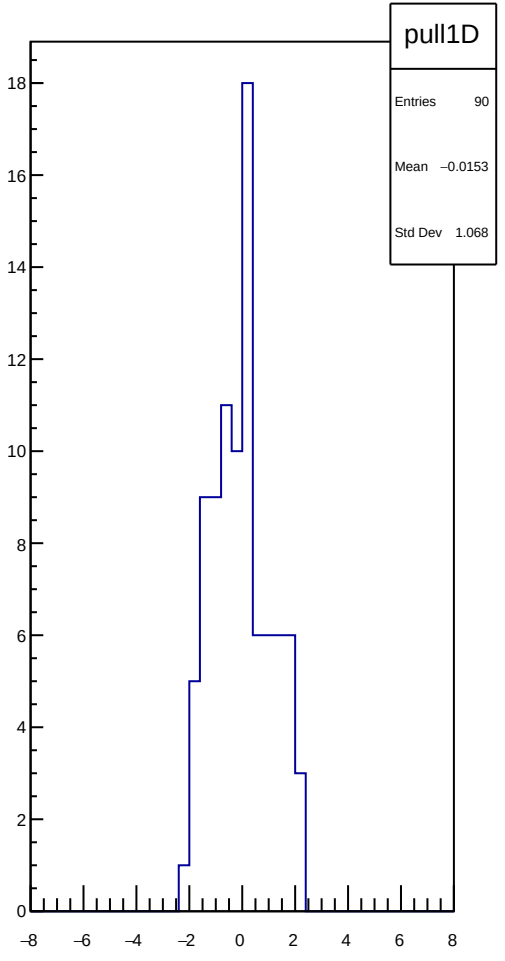

reg_asym_sam_15_48_dd_rms vs run
χ² / ndf 2.349e+04 / 89
p0 46.08 ± 0.03475
140
120
100
80
60
40

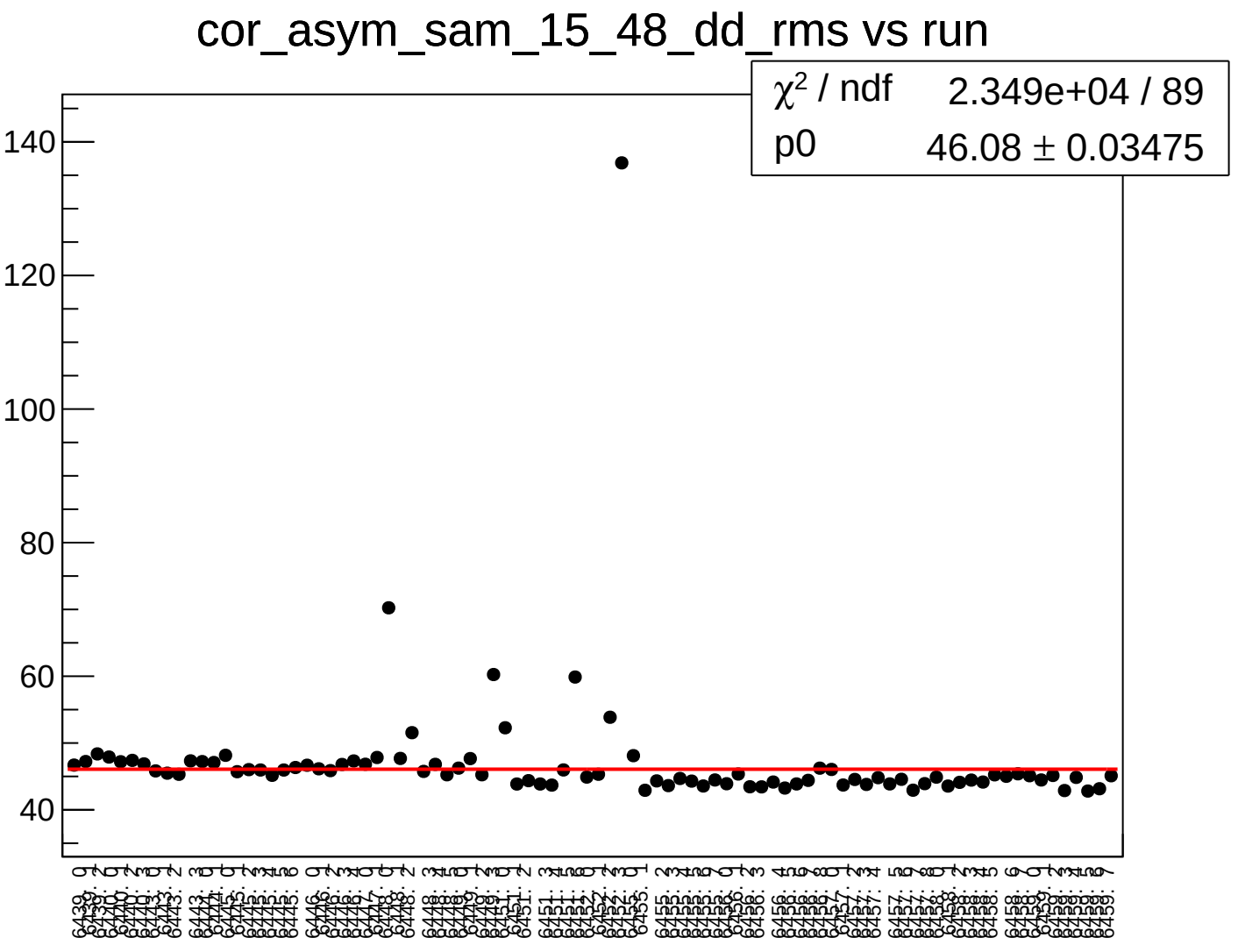

asym_sam_15_48_dd_reg_correction_mean vs run
χ² / ndf 72.63 / 89
p0 1640 ± 612.8
pull
Entries 90
Mean −650.3
Std Dev 0

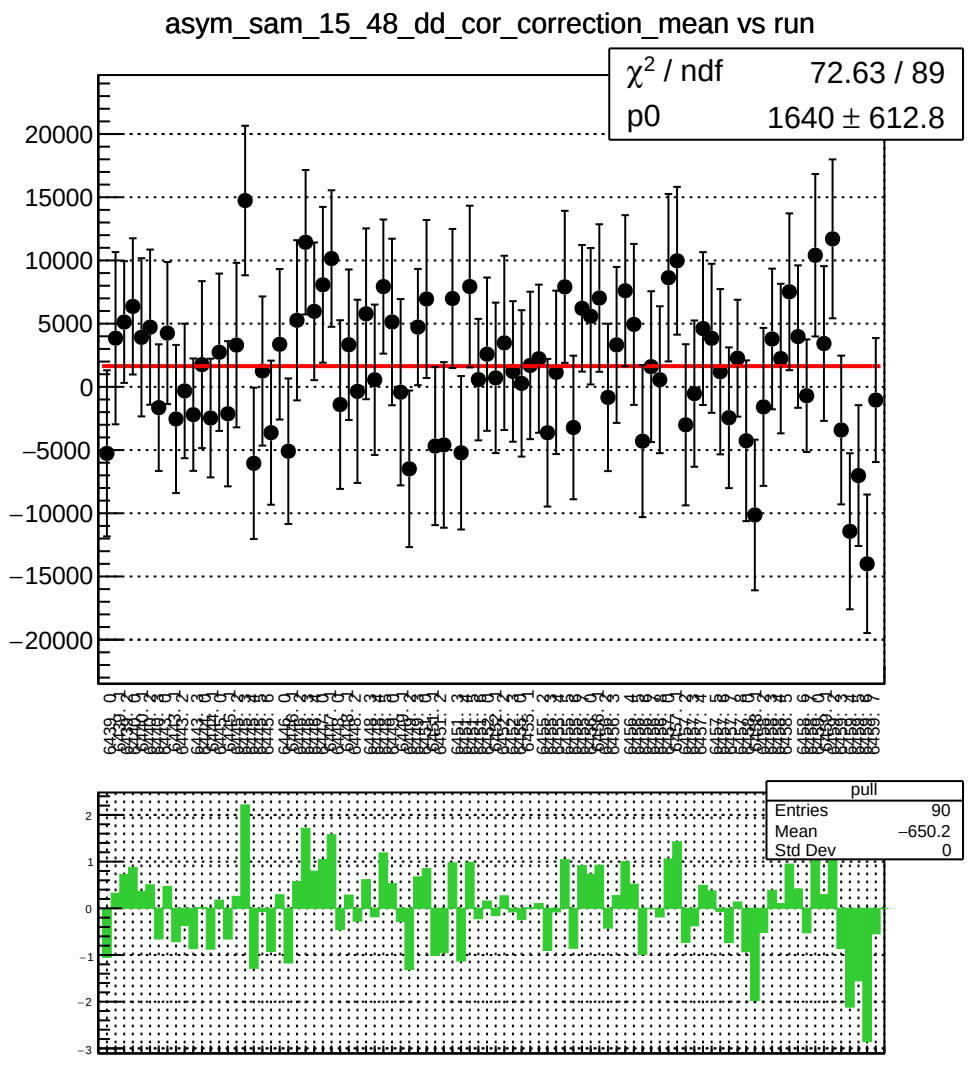

pull1D
Entries 90
Mean 0.00445
Std Dev 0.8983

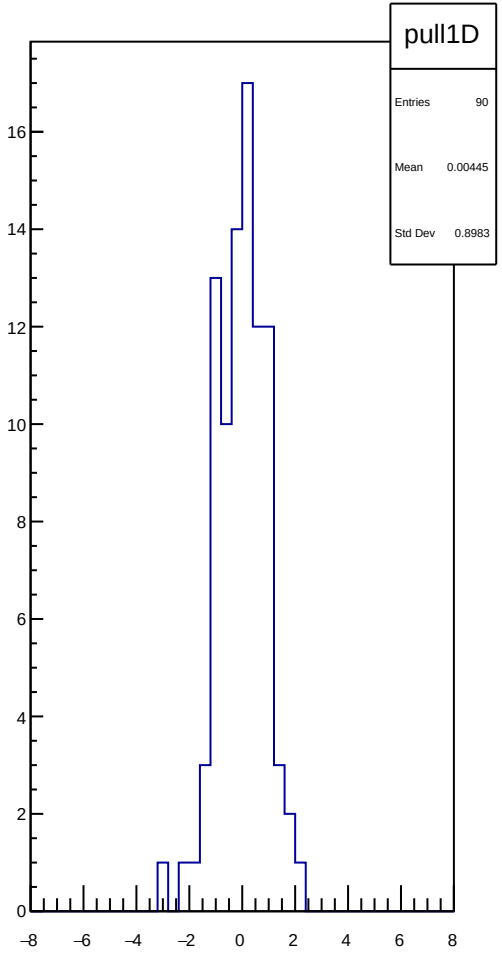

asym_sam_15_48_dd_reg_correction_rms vs run
χ² / ndf 8101 / 89
p0 577.1 ± 0.4333
750
700
650
600
550
500

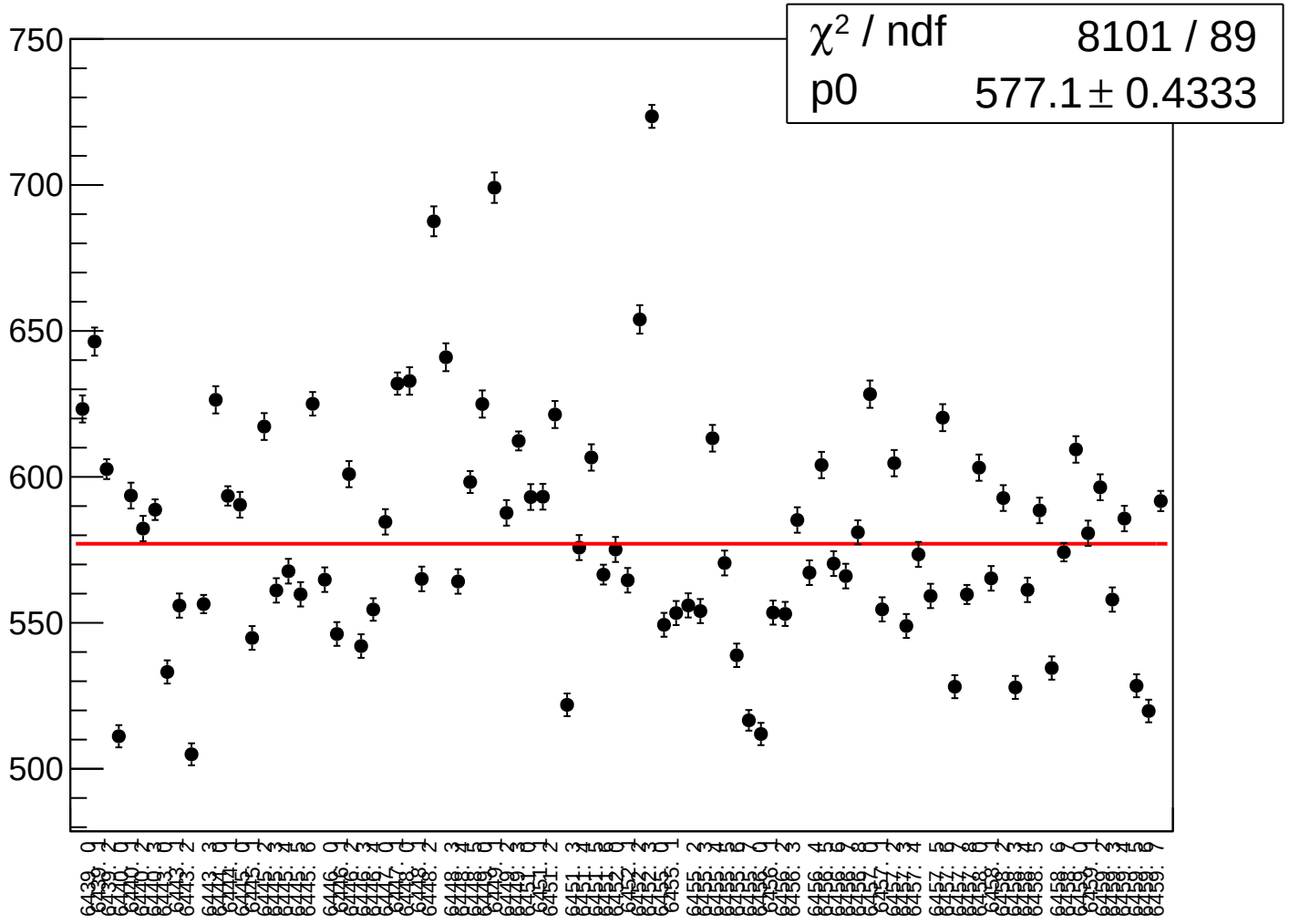

cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 102.7 / 89
p0 88.38 ± 49.14
pull
Entries 90
Mean 10.3
Std Dev 0

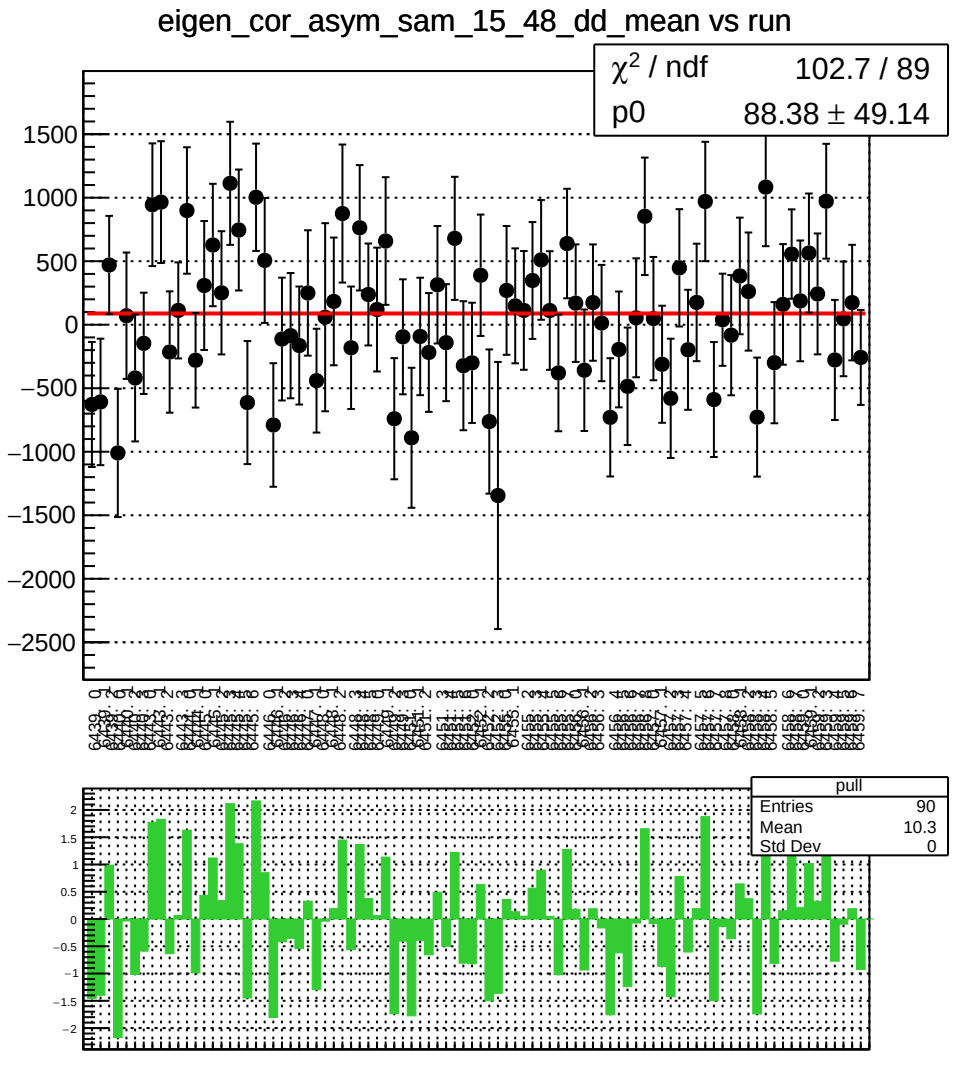

pull1D
Entries 90
Mean −0.0153
Std Dev 1.068

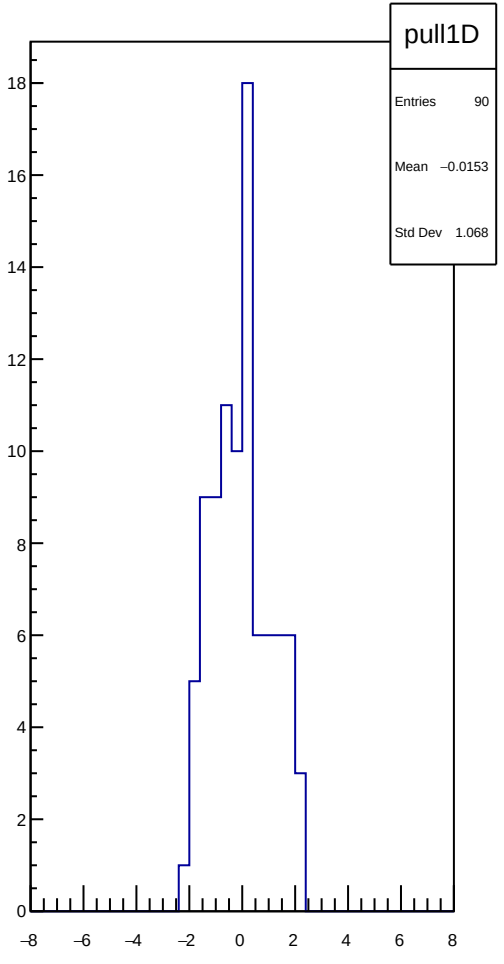

cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 2.349e+04 / 89
p0 46.08 ± 0.03475
140
120
100
80
60
40

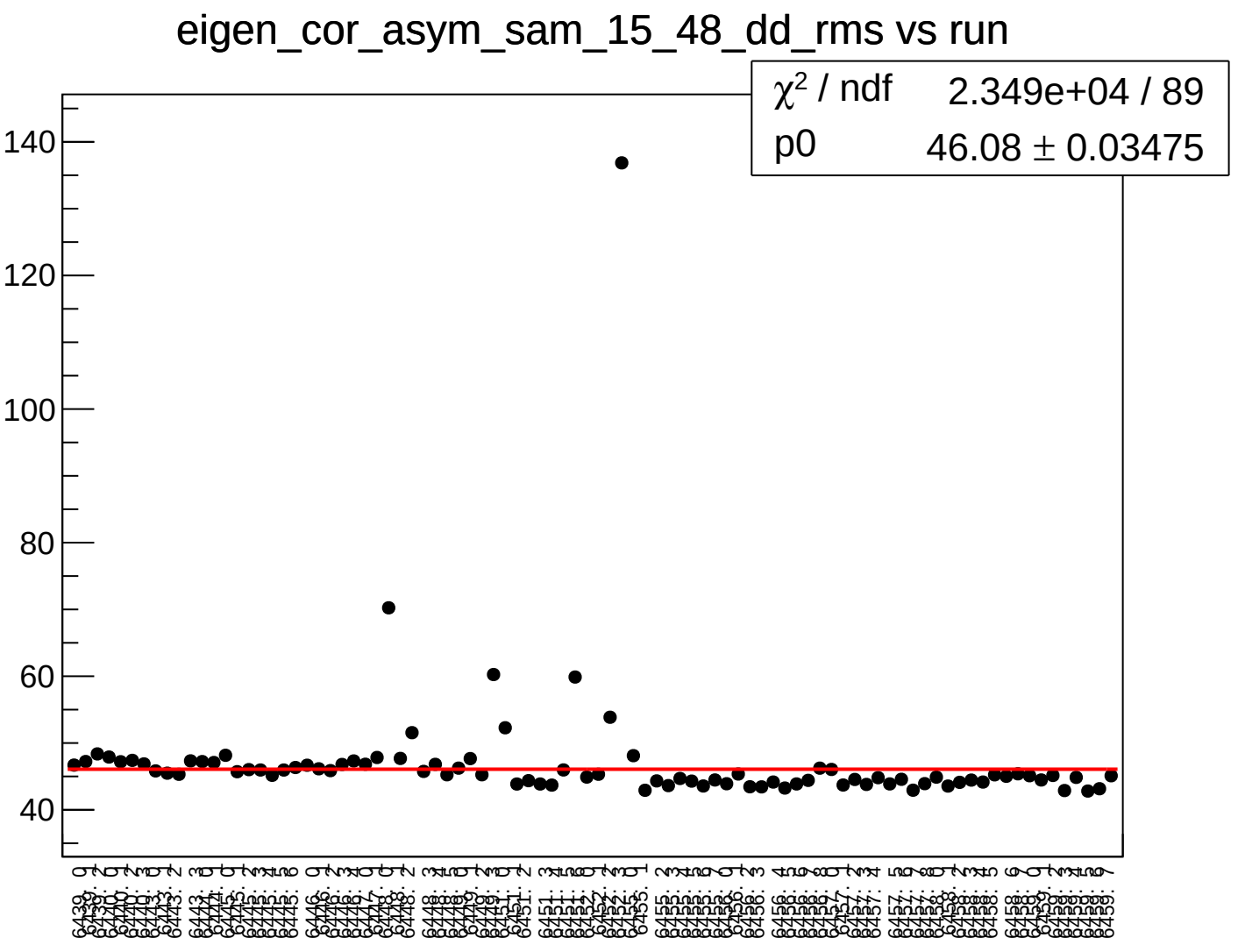

asym_sam_15_48_dd_cor_correction_mean vs run
χ² / ndf 72.63 / 89
p0 1640 ± 612.8
pull
Entries 90
Mean −650.2
Std Dev 0

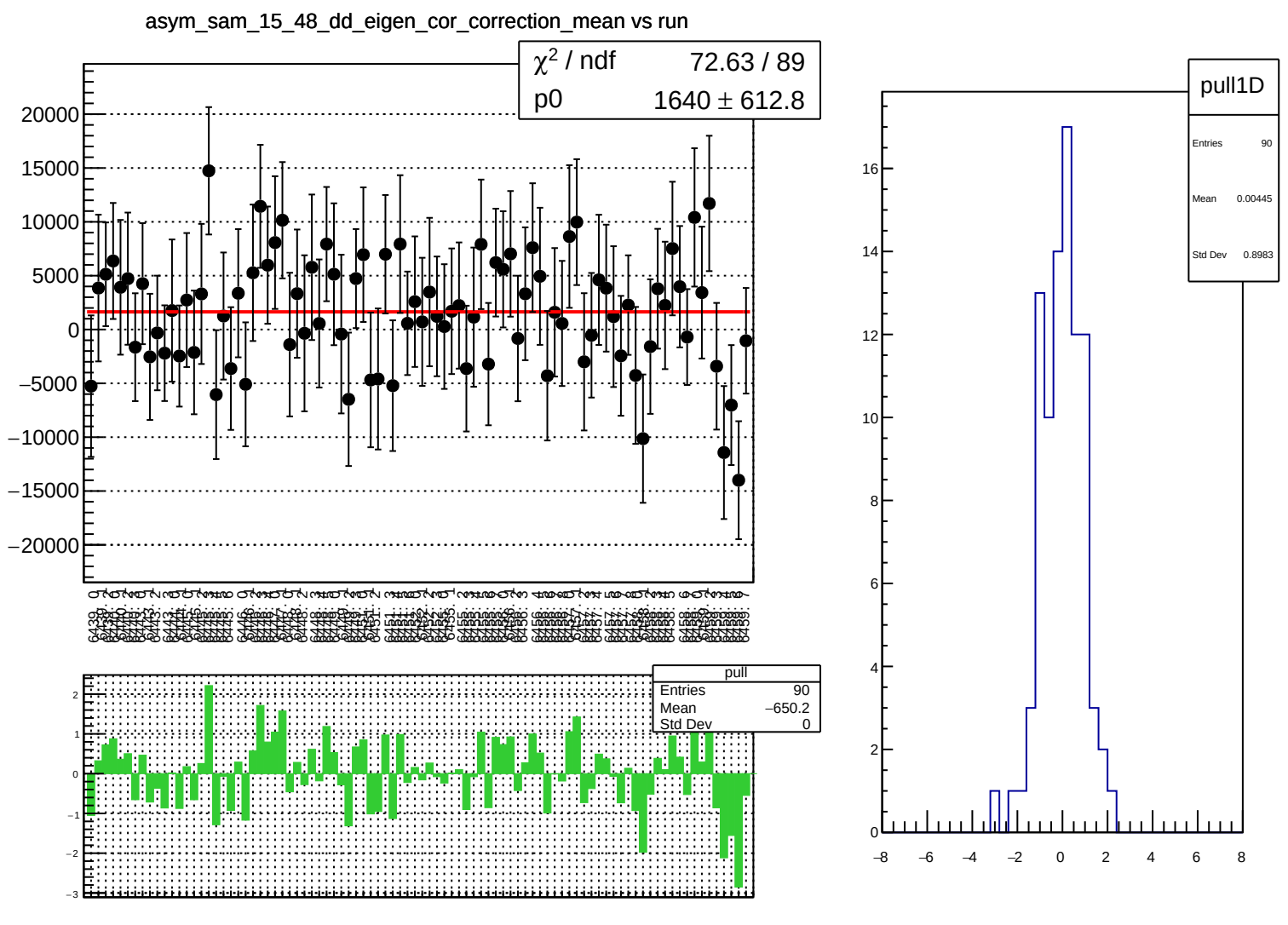

pull1D
Entries 90
Mean 0.00445
Std Dev 0.8983

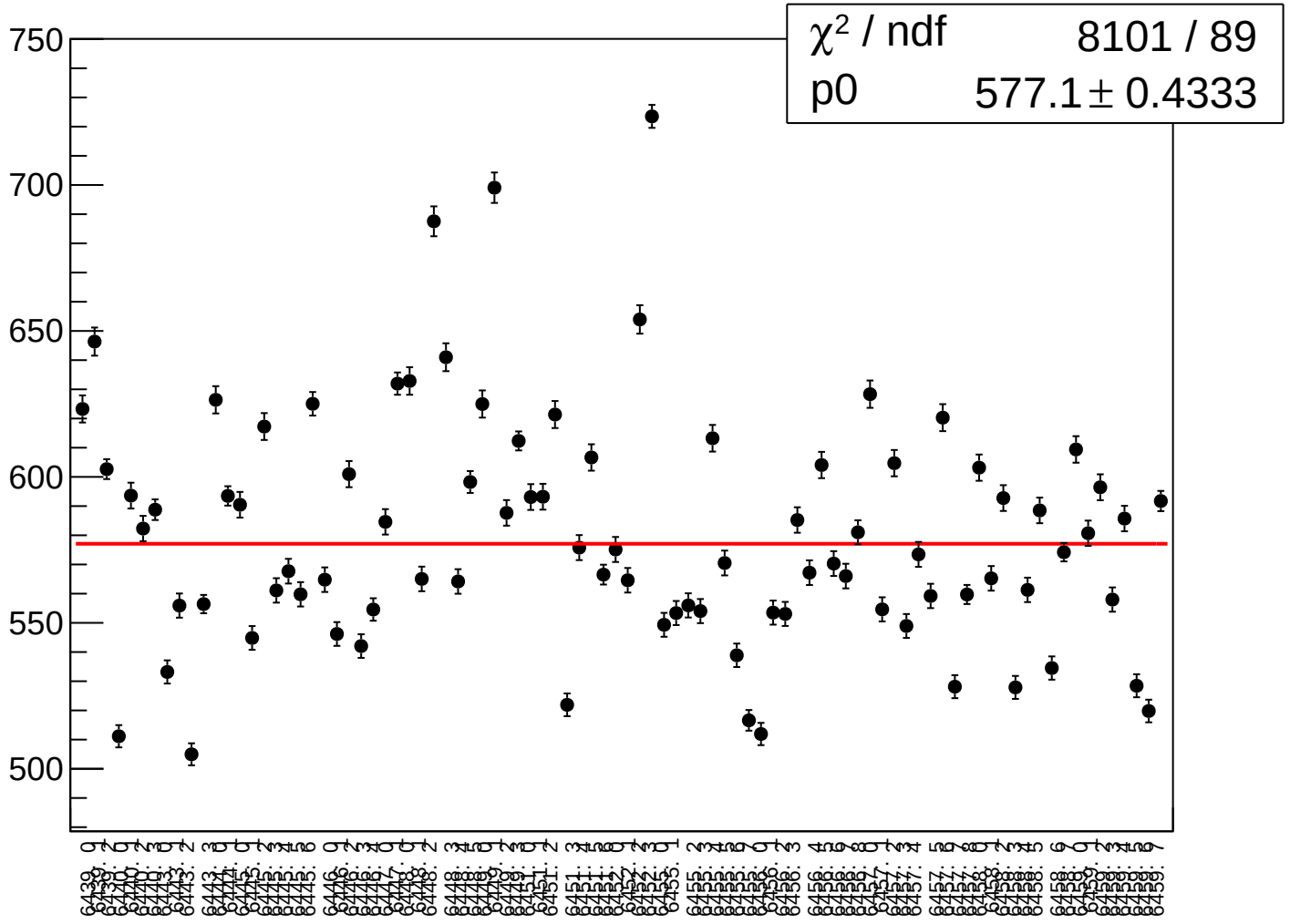

asym_sam_15_48_dd_cor_correction_rms vs run
χ² / ndf 8101 / 89
p0 577.1 ± 0.4333
750
700
650
600
550
500

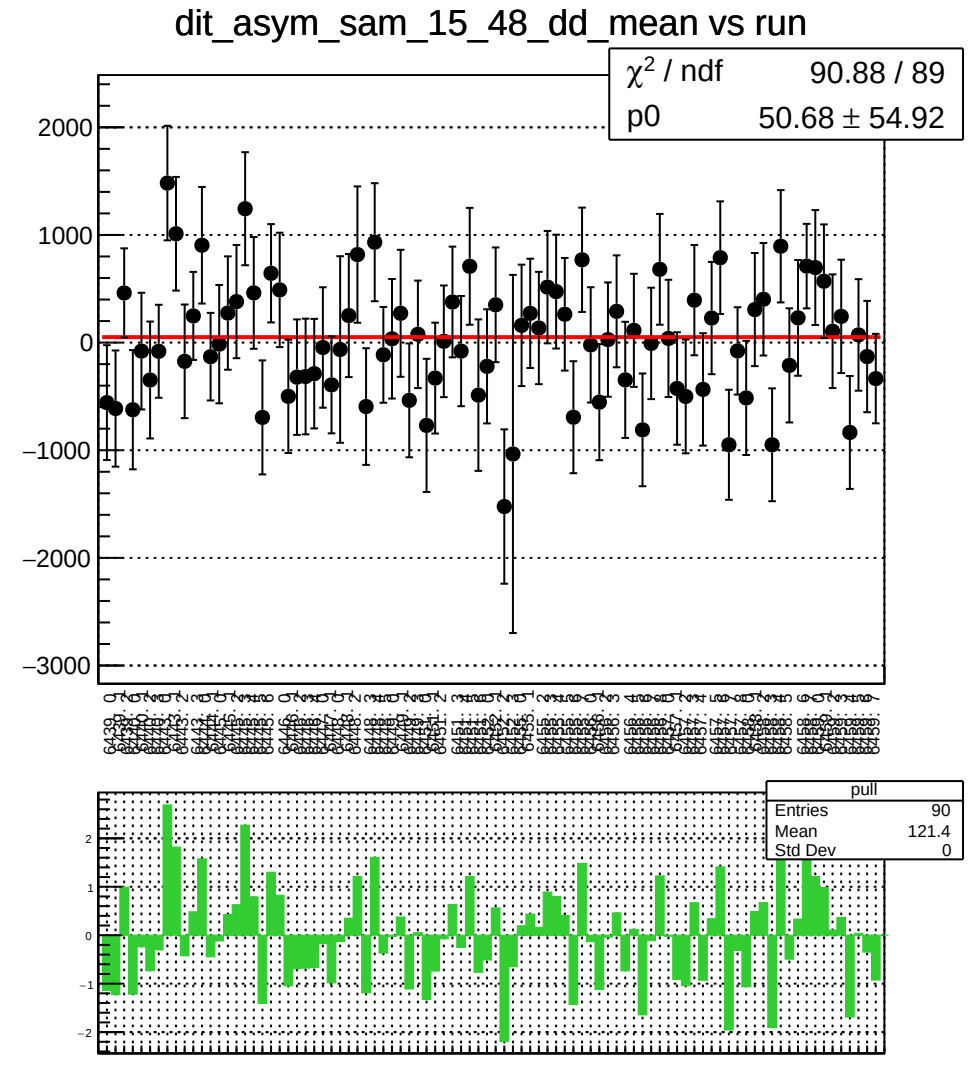

eigen_cor_asym_sam_15_48_dd_mean vs run
χ^2 / ndf 102.7 / 89
p0 88.38 ± 49.14
pull
Entries 90
Mean 10.3
Std Dev 0

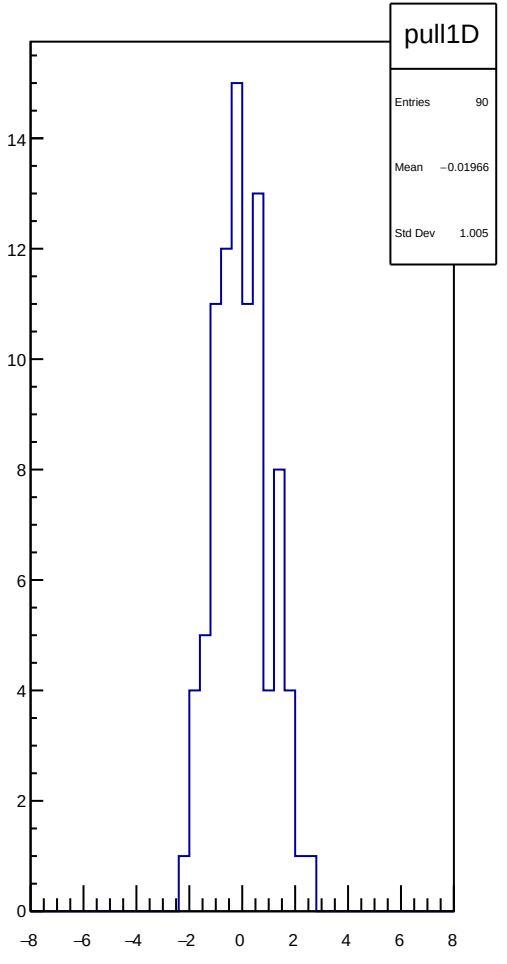

pull1D
Entries 90
Mean −0.0153
Std Dev 1.068

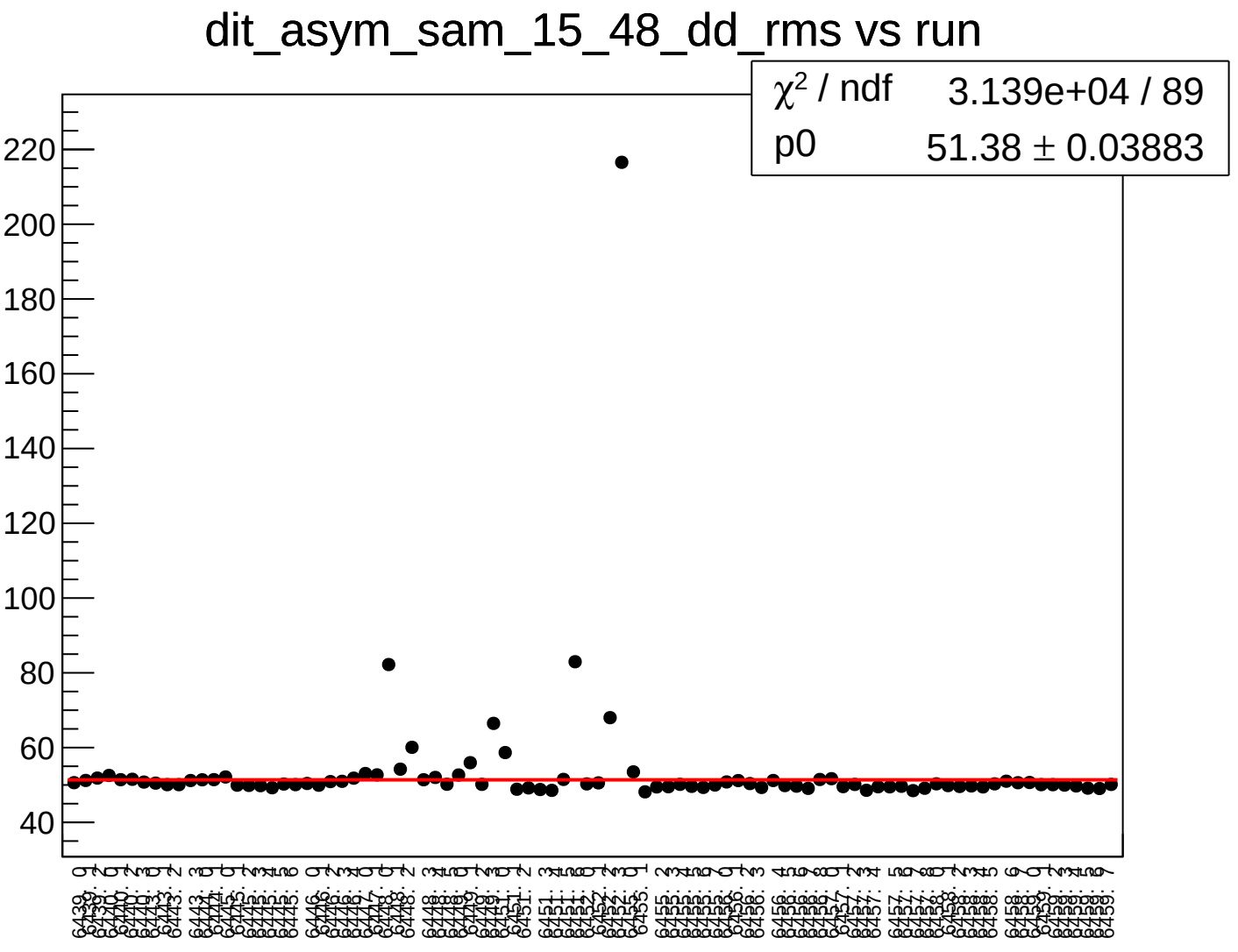

eigen_cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 2.349e+04 / 89
p0 46.08 ± 0.03475
140
120
100
80
60
40

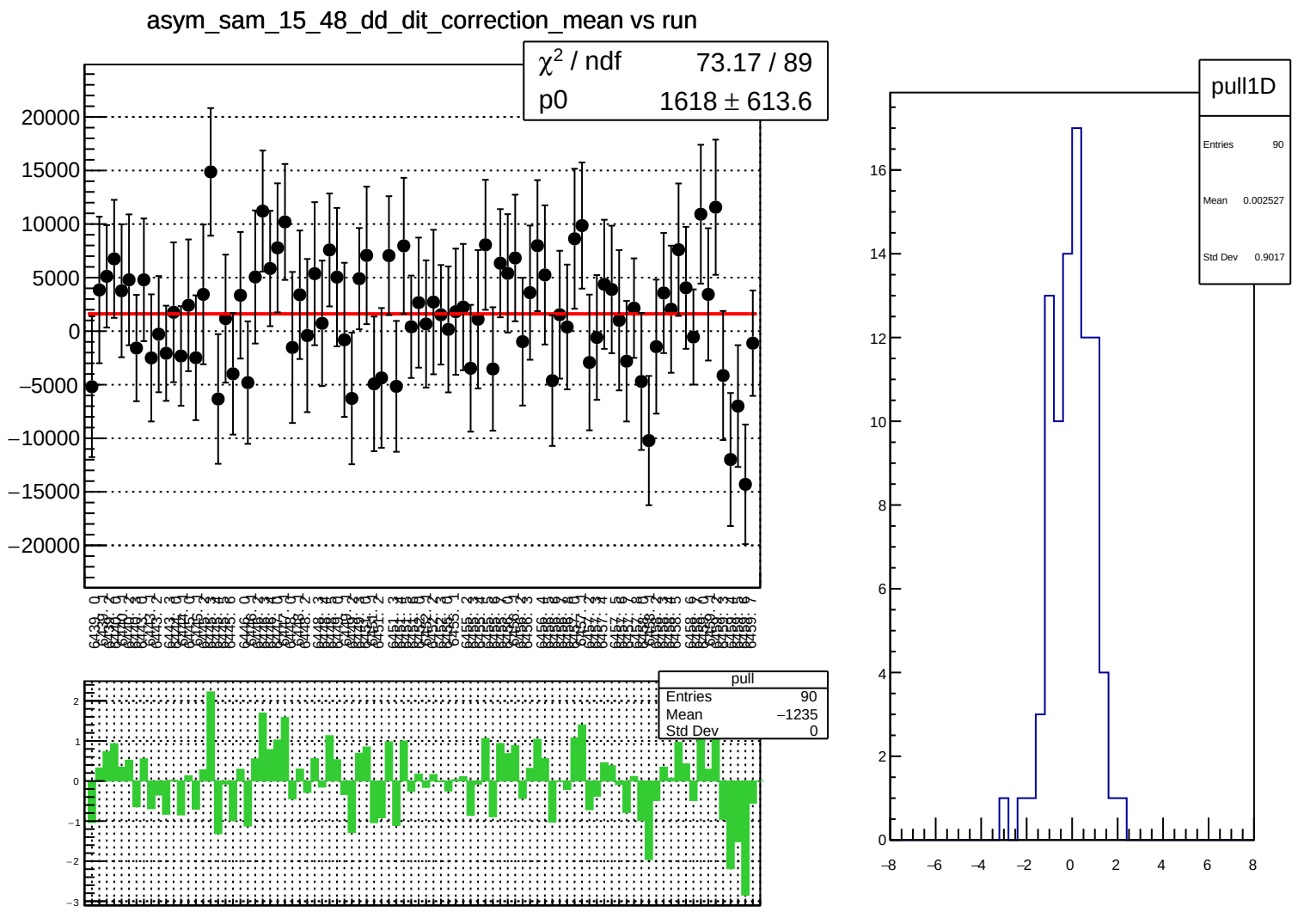

asym_sam_15_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 72.63 / 89
p0 1640 ± 612.8
pull
Entries 90
Mean −650.2
Std Dev 0
pull1D
Entries 90
Mean 0.00445
Std Dev 0.8983

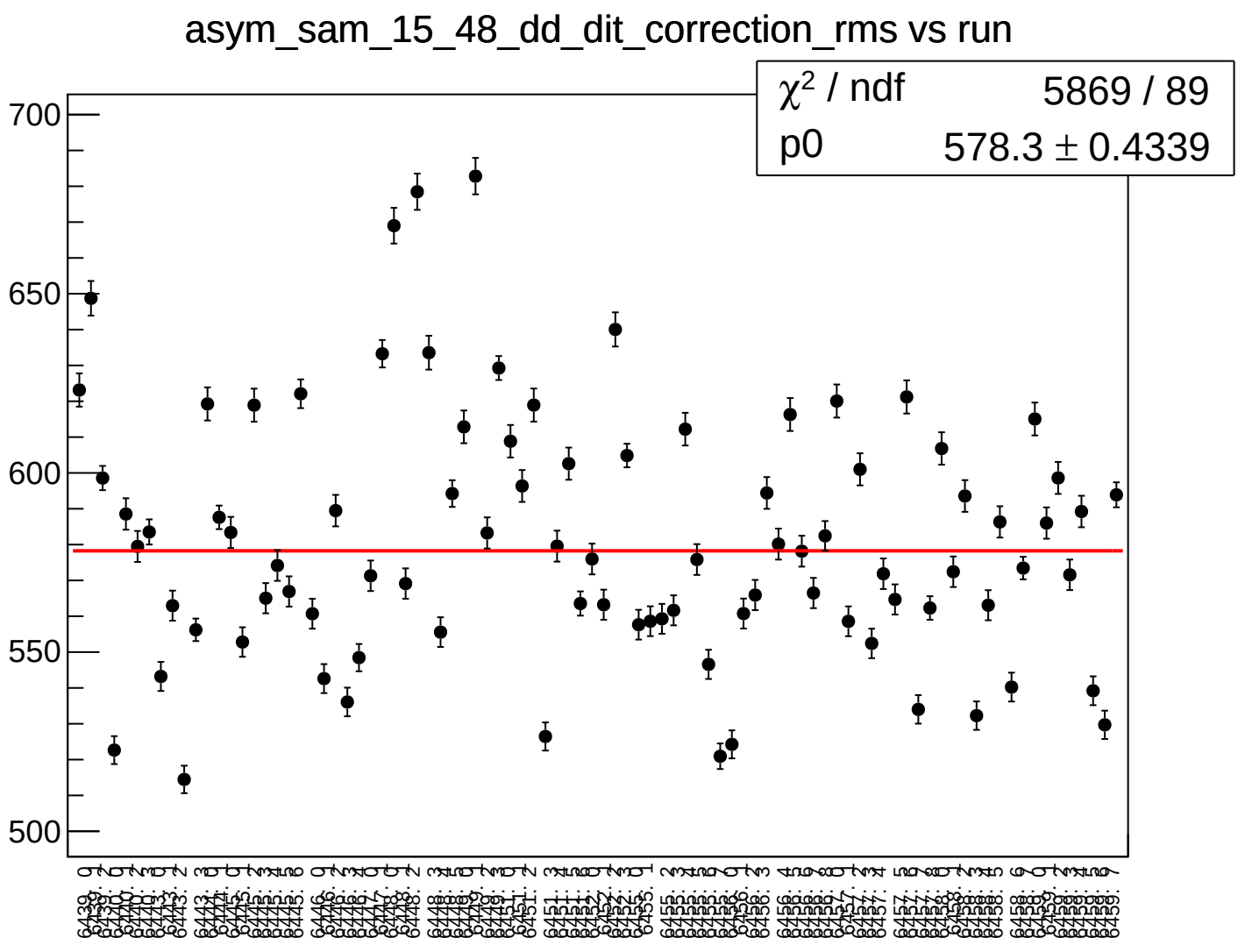

asym_sam_15_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 8101 / 89
p0 577.1 ± 0.4333
750
700
650
600
550
500

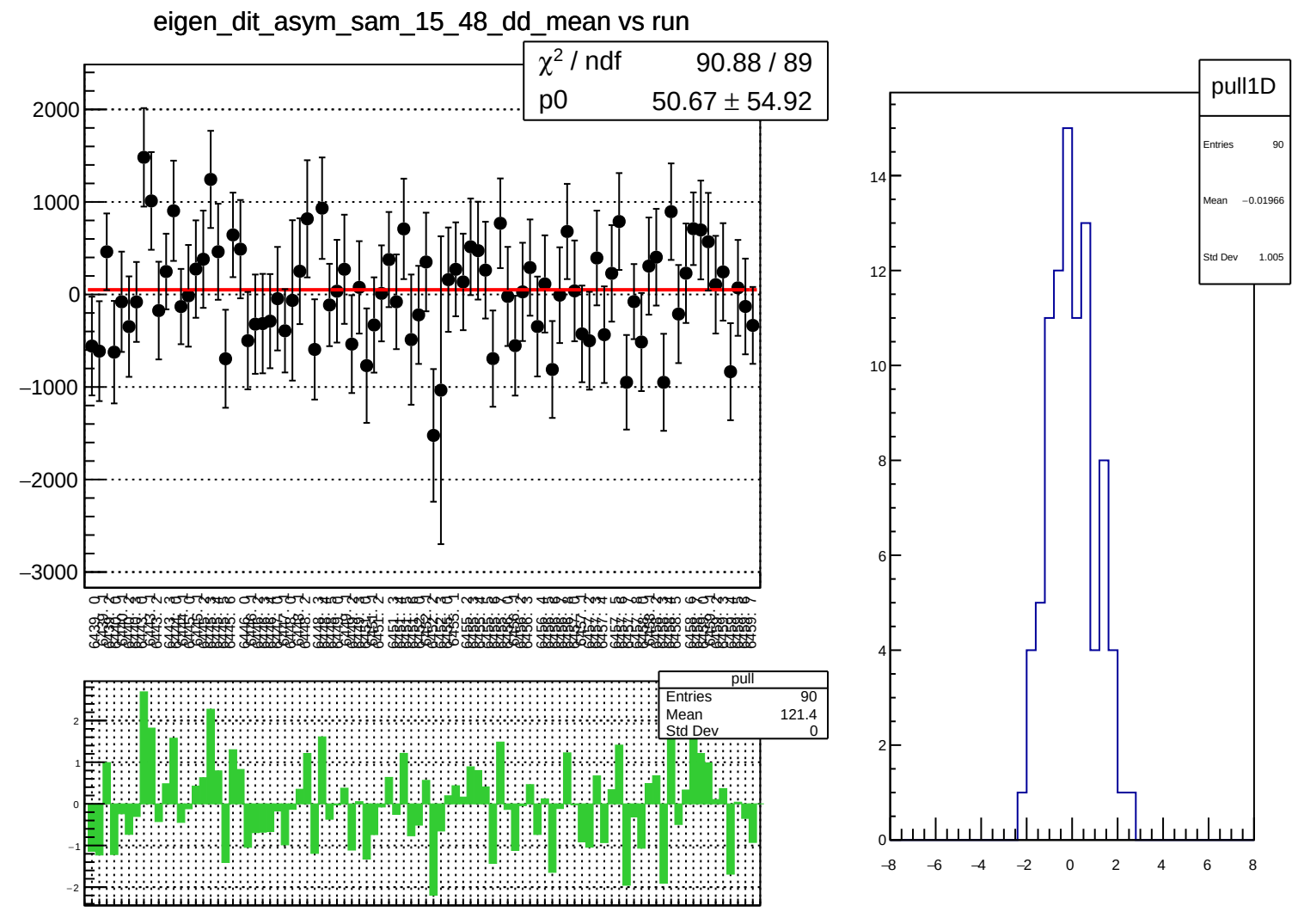

dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 90.88 / 89
p0 50.68 ± 54.92
2000
1000
0
−1000
−2000
−3000
pull
Entries 90
Mean 121.4
Std Dev 0
2
1
0
−1
−2

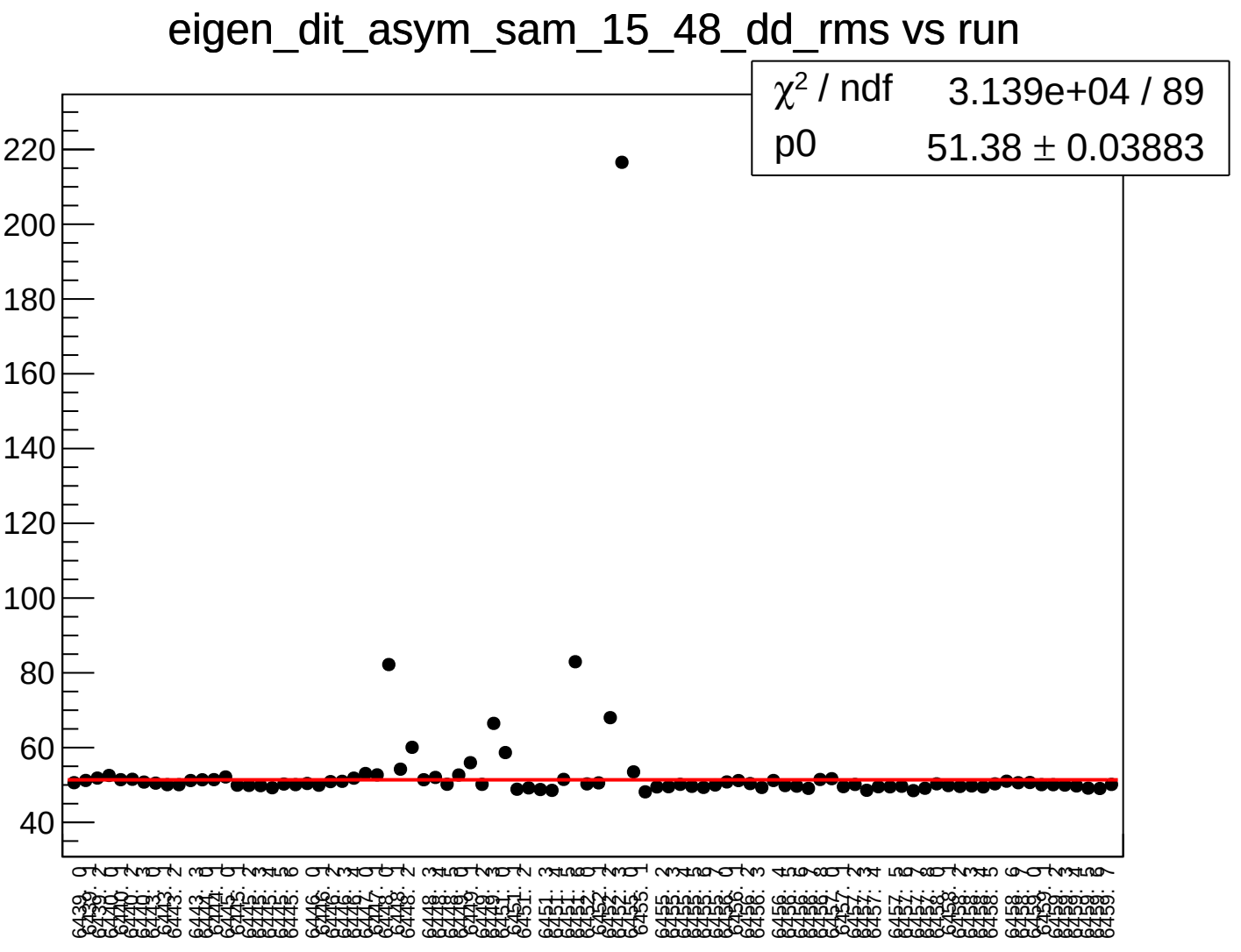

pull1D
Entries 90
Mean −0.01966
Std Dev 1.005
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

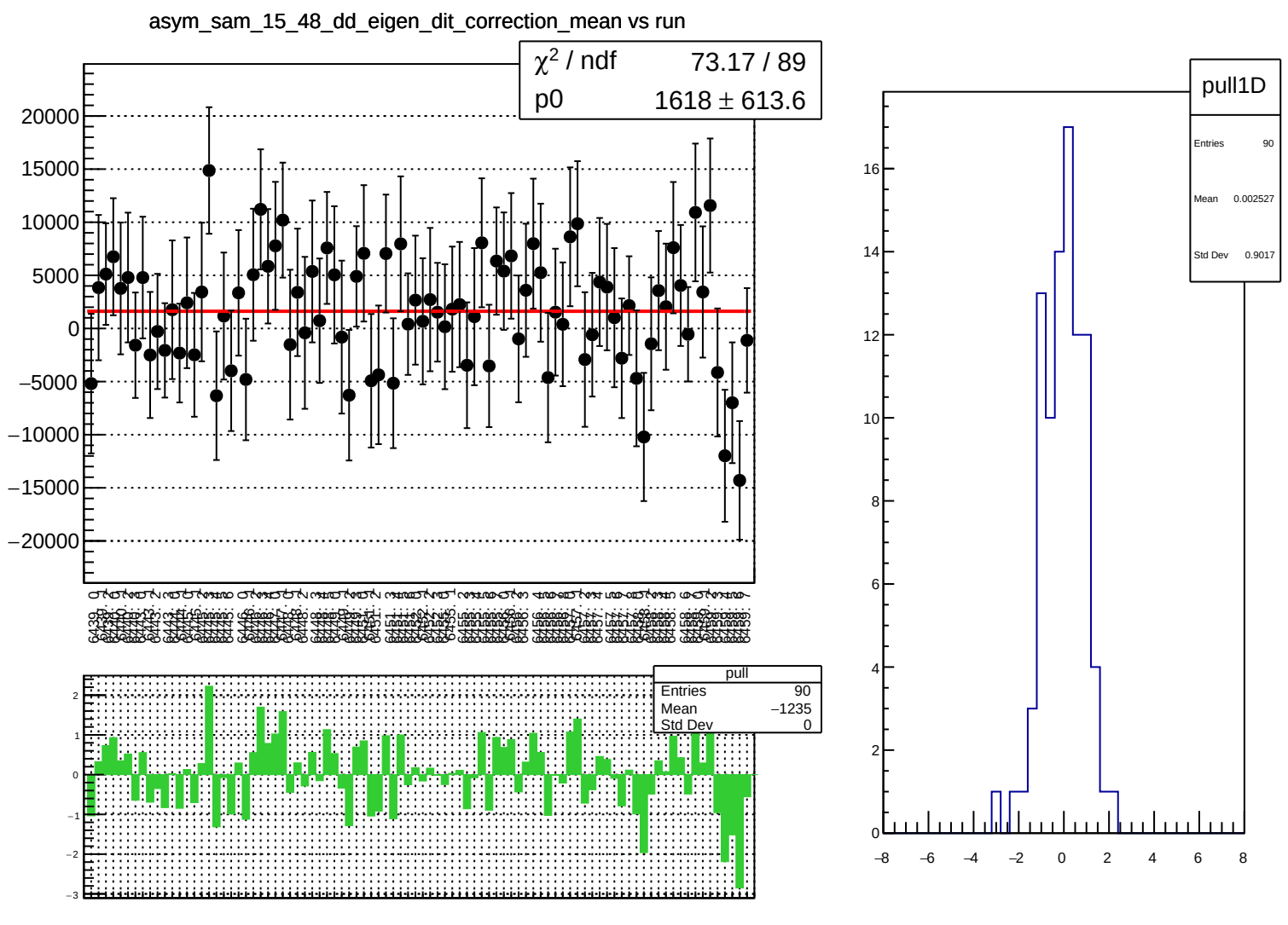

dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 3.139e+04 / 89
p0 51.38 ± 0.03883
220
200
180
160
140
120
100
80
60
40

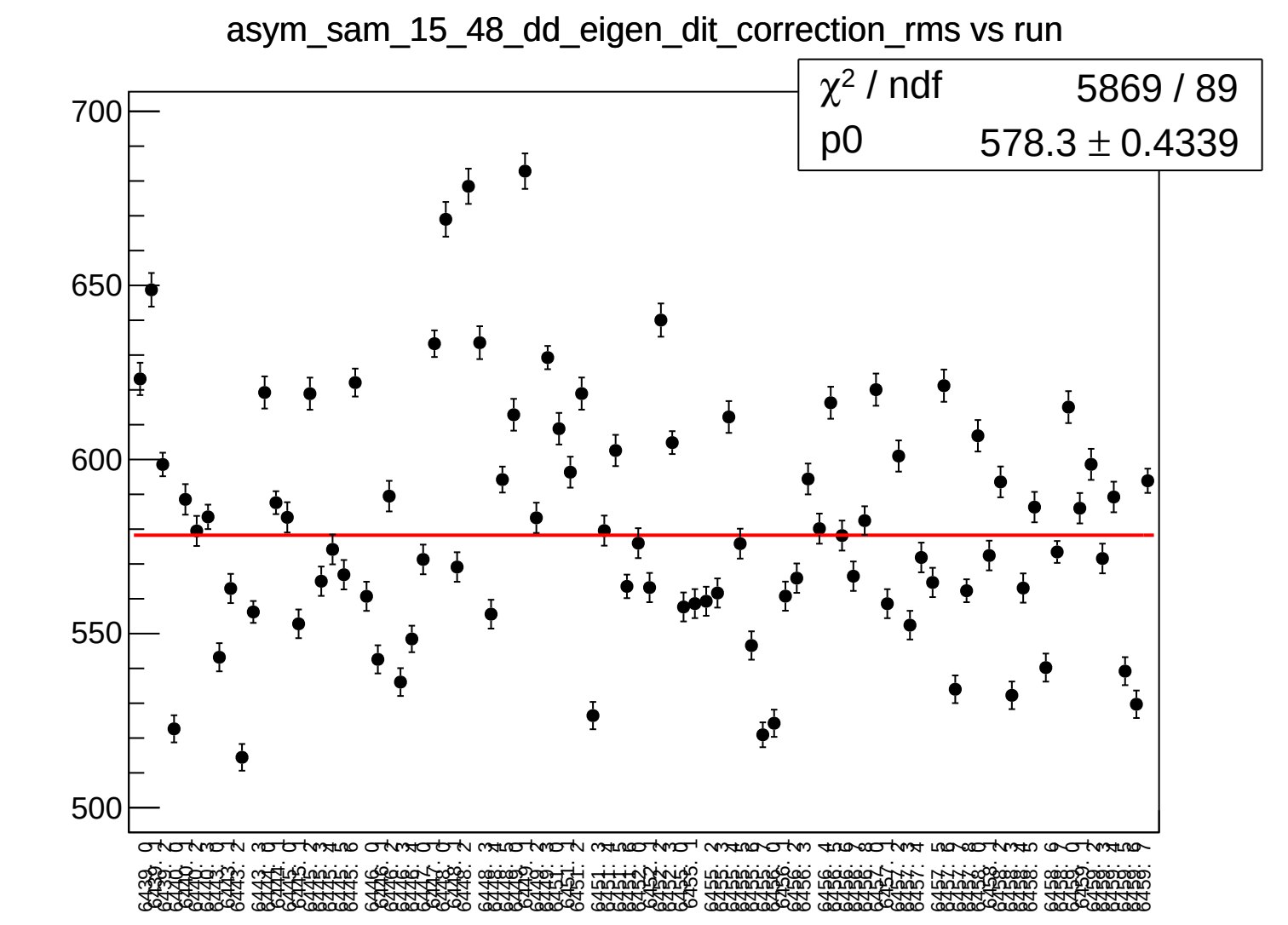

asym_sam_15_48_dd_dit_correction_mean vs run
χ² / ndf 73.17 / 89
p0 1618 ± 613.6
pull
Entries 90
Mean −1235
Std Dev 0
pull1D
Entries 90
Mean 0.002527
Std Dev 0.9017

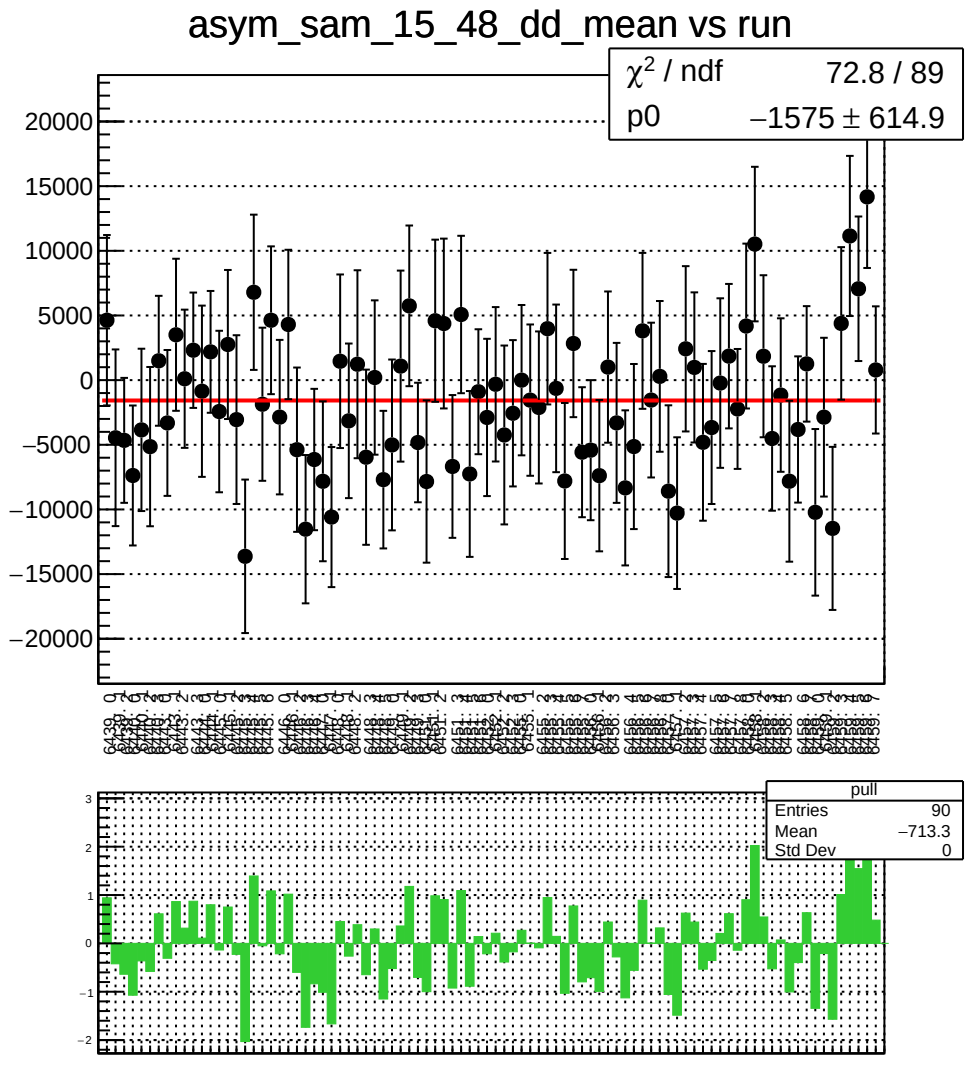

asym_sam_15_48_dd_dit_correction_rms vs run
χ² / ndf 5869 / 89
p0 578.3 ± 0.4339
700
650
600
550
500

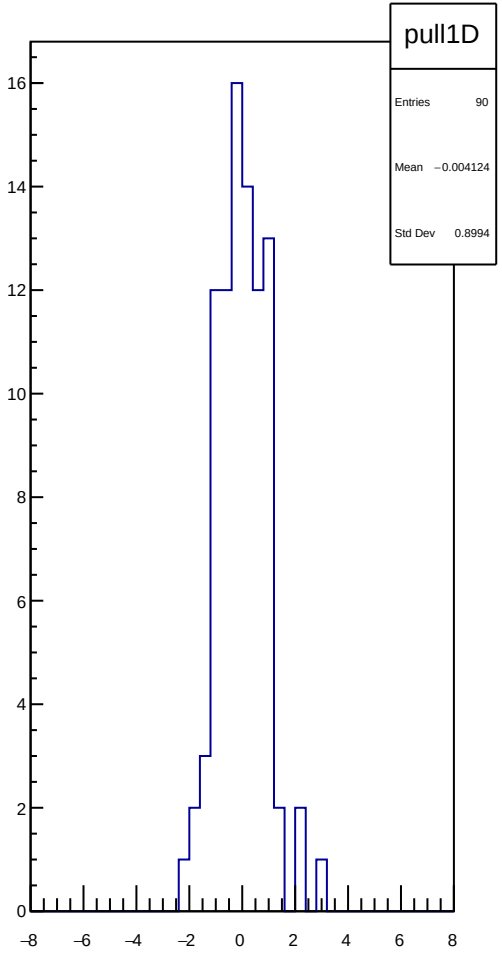

eigen_dit_asym_sam_15_48_dd_mean vs run
χ^2 / ndf 90.88 / 89
p0 50.67 ± 54.92
pull
Entries 90
Mean 121.4
Std Dev 0
pull1D
Entries 90
Mean −0.01966
Std Dev 1.005

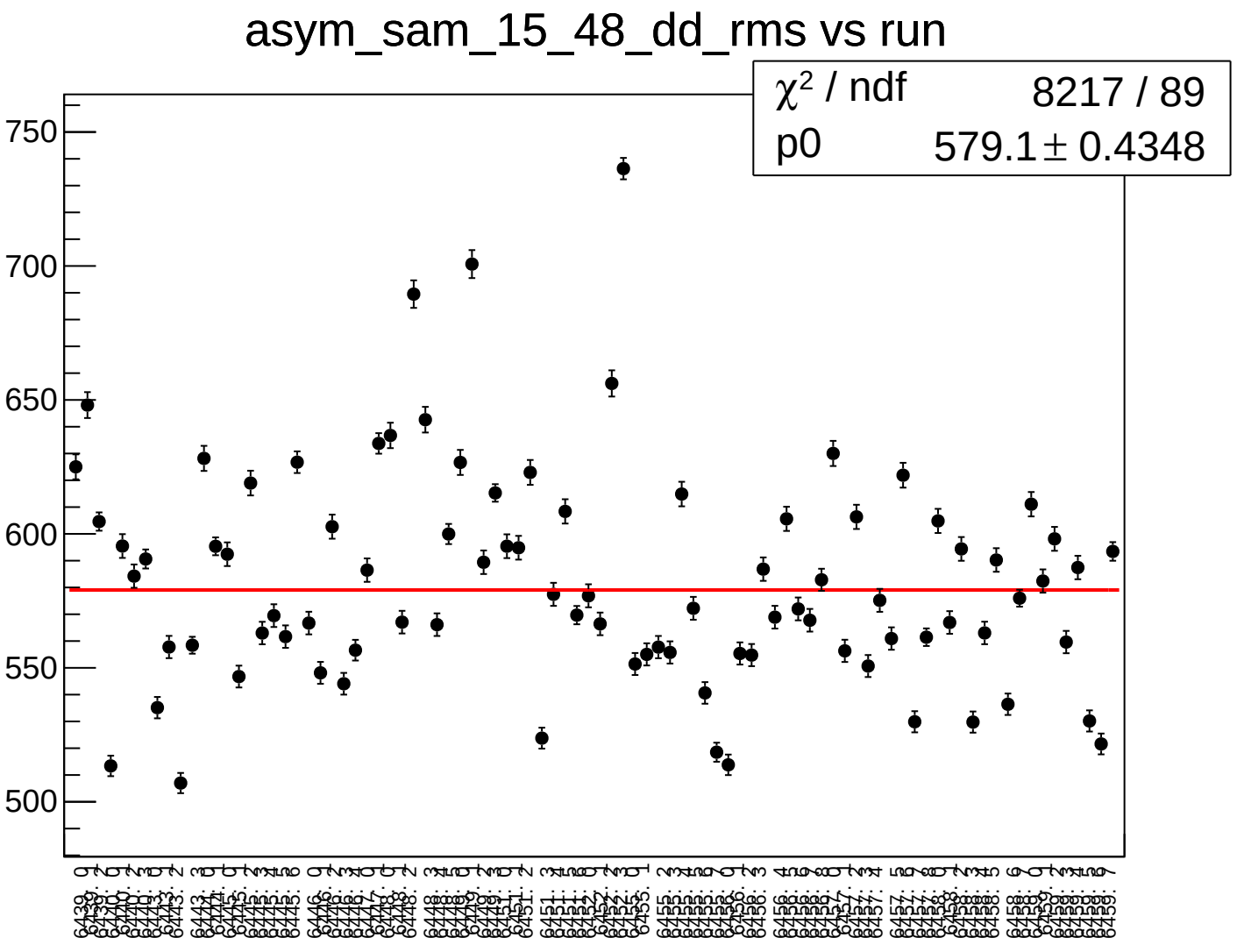

eigen_dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 3.139e+04 / 89
p0 51.38 ± 0.03883
220
200
180
160
140
120
100
80
60
40

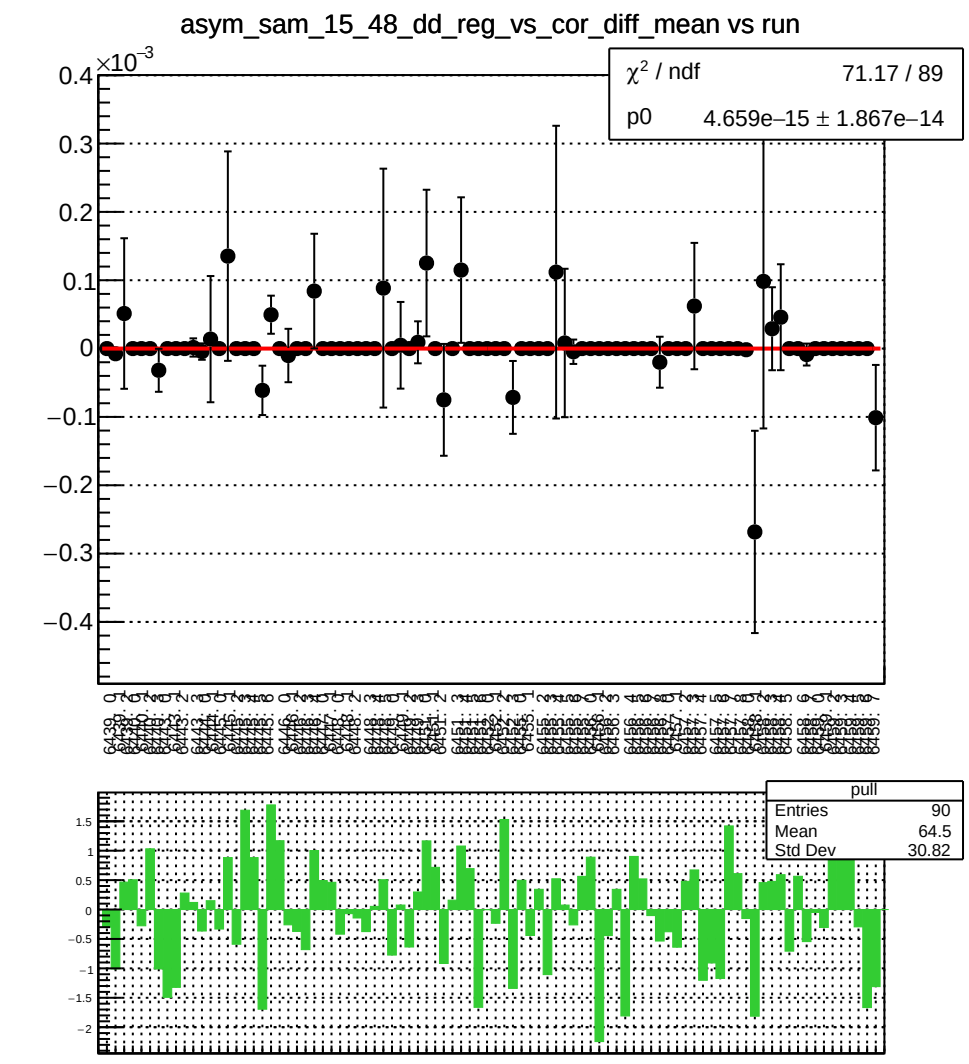

asym_sam_15_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 73.17 / 89
p0 1618 ± 613.6
pull
Entries 90
Mean −1235
Std Dev 0
pull1D
Entries 90
Mean 0.002527
Std Dev 0.9017

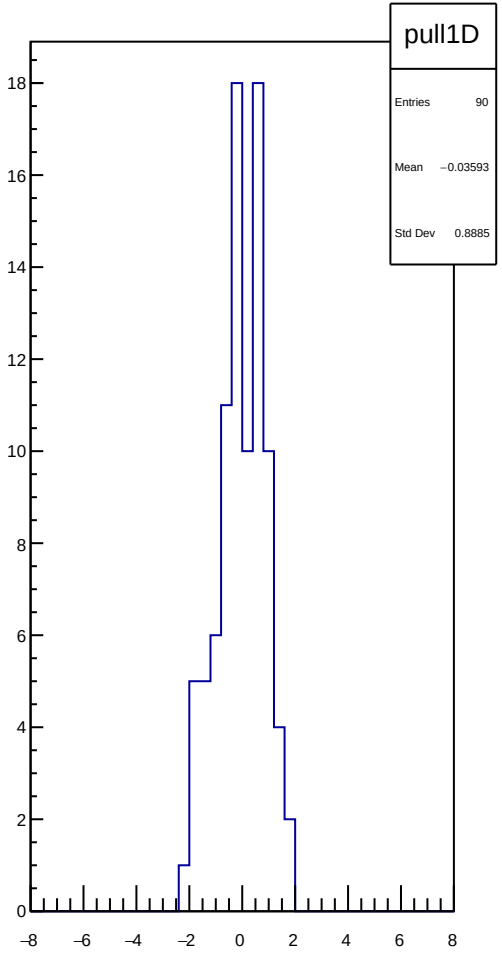

asym_sam_15_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 5869 / 89
p0 578.3 ± 0.4339
700
650
600
550
500

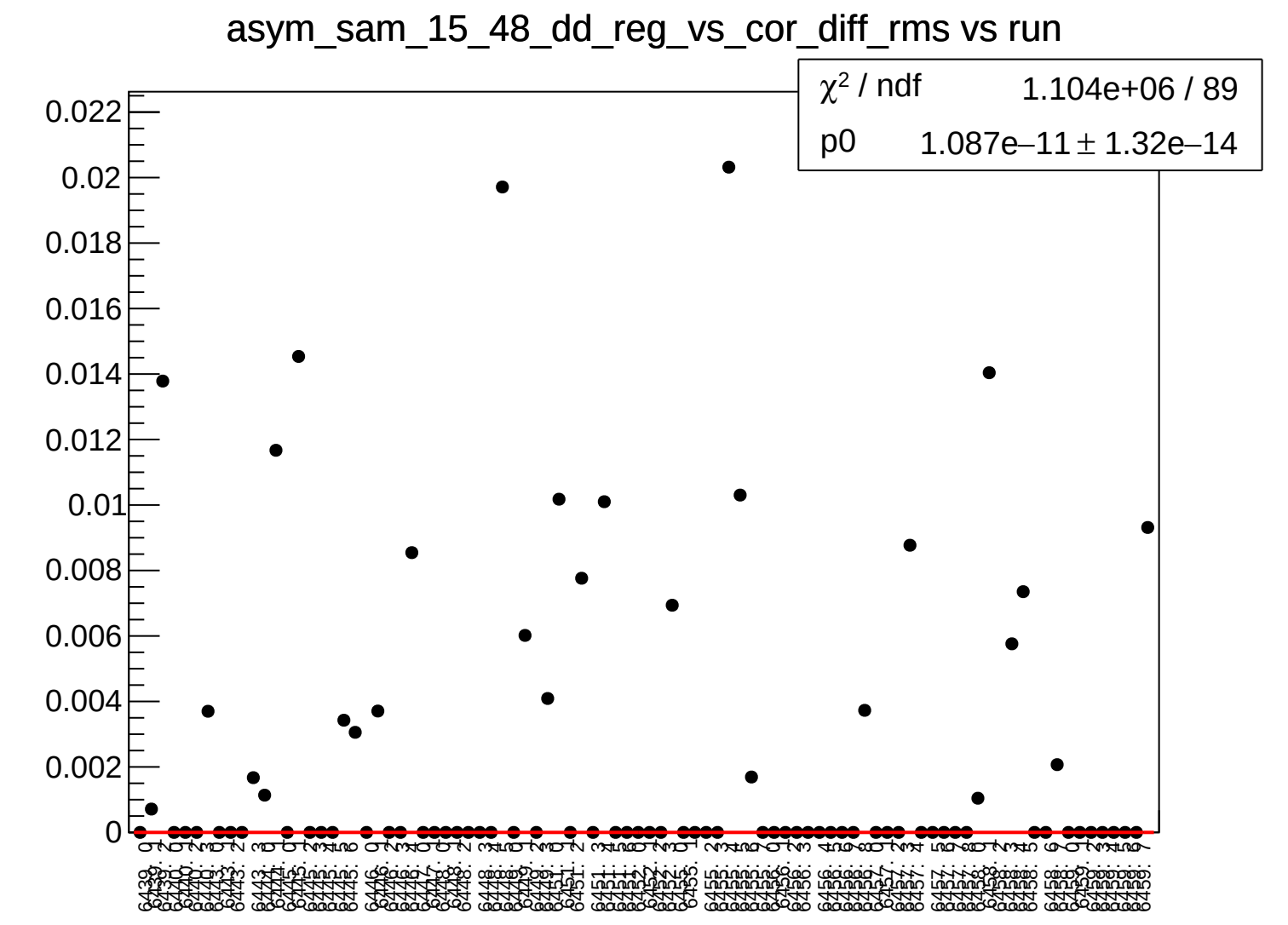

asym_sam_15_48_dd_mean vs run
χ² / ndf 72.8 / 89
p0 −1575 ± 614.9
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 90
Mean −713.3
Std Dev 0
3
2
1
0
−1
−2

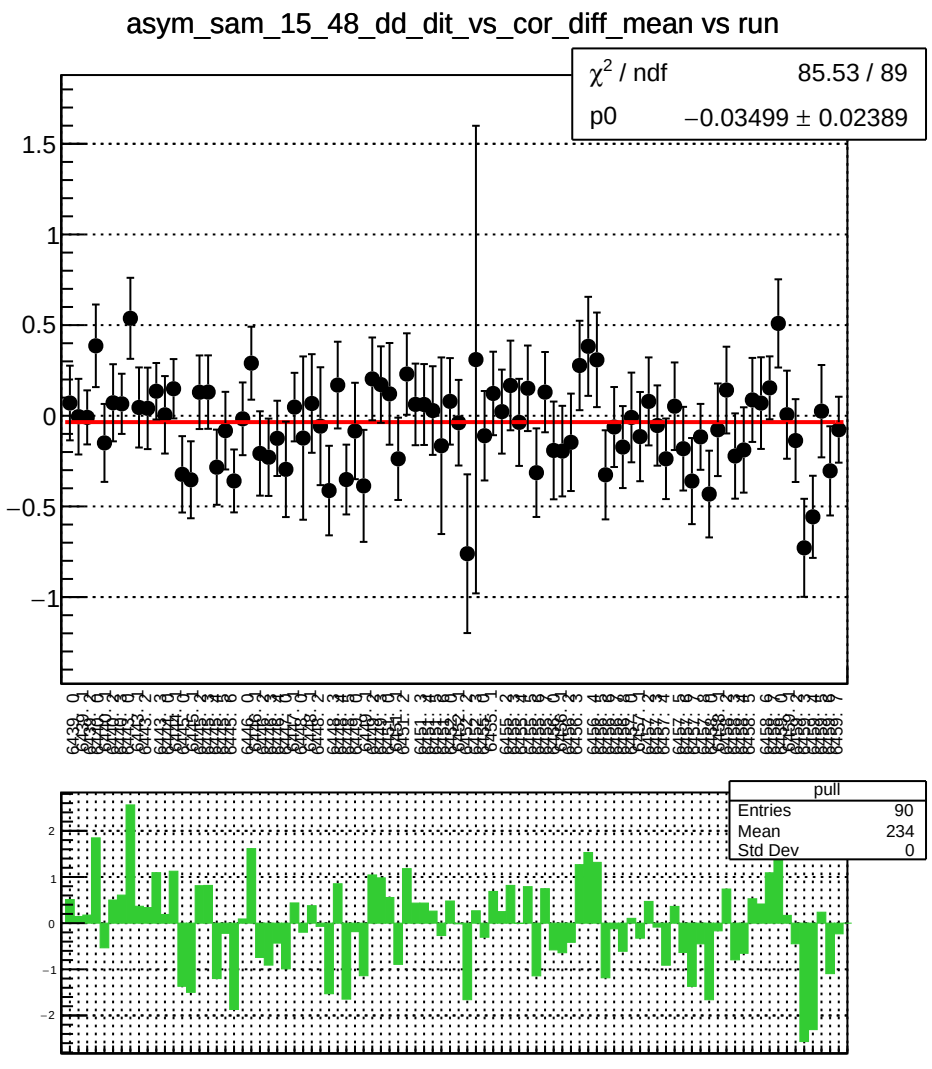

pull1D
Entries 90
Mean −0.004124
Std Dev 0.8994
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

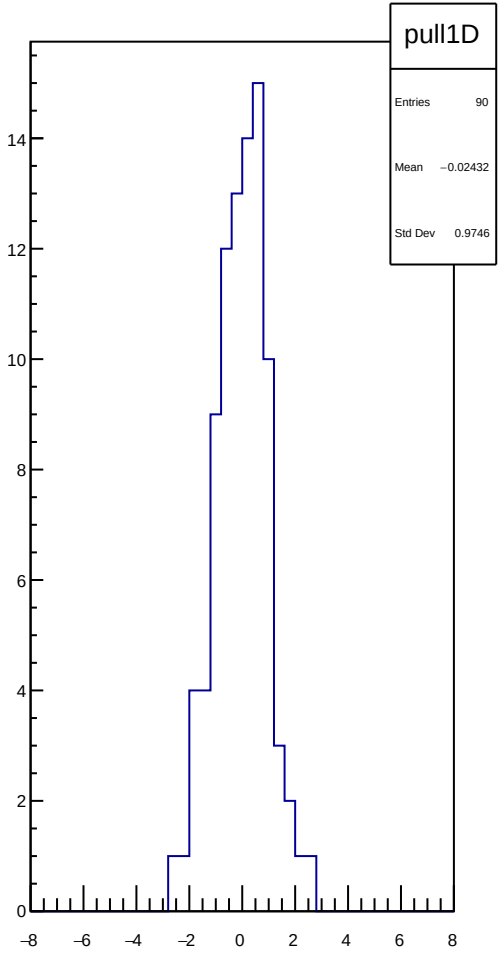

asym_sam_15_48_dd_rms vs run
χ² / ndf 8217 / 89
p0 579.1 ± 0.4348
750
700
650
600
550
500

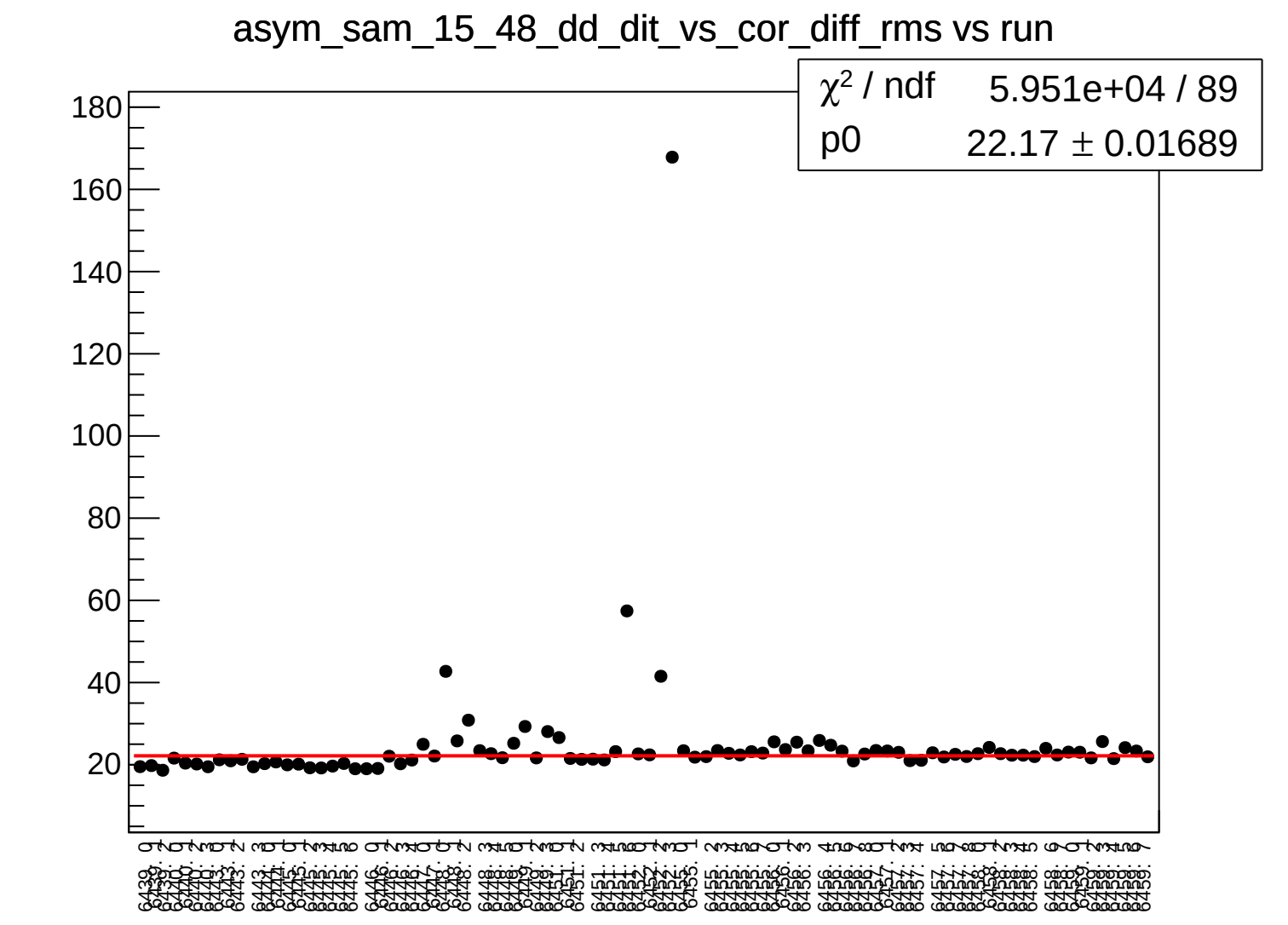

asym_sam_15_48_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 71.17 / 89
p0 4.659e−15 ± 1.867e−14
pull
Entries 90
Mean 64.5
Std Dev 30.82

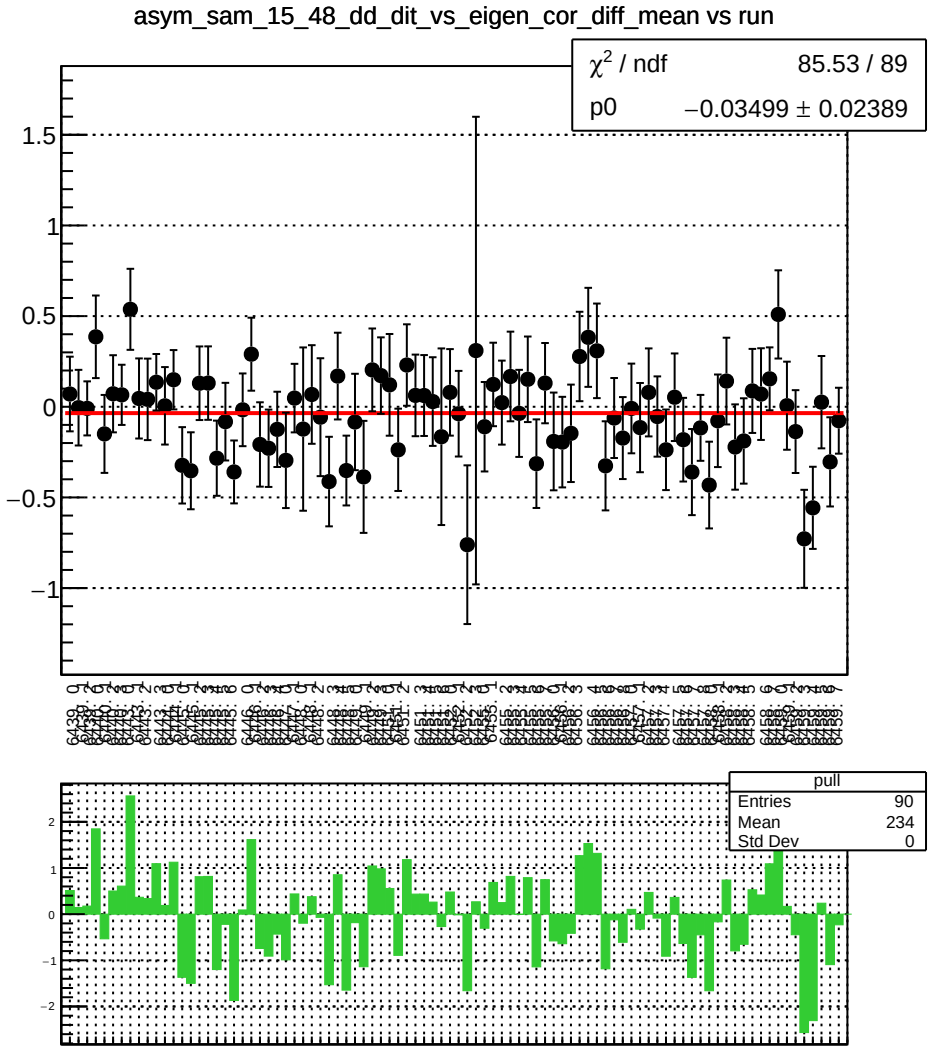

pull1D
Entries 90
Mean −0.03593
Std Dev 0.8885

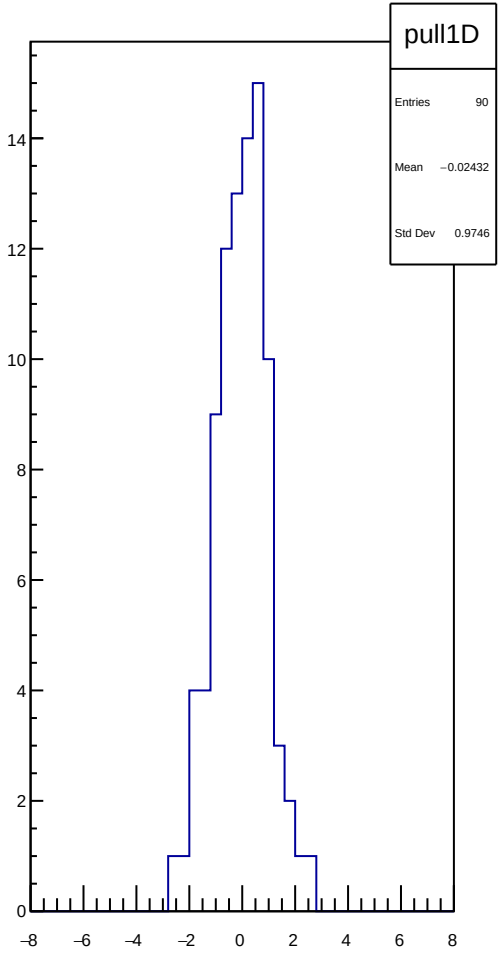

asym_sam_15_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.104e+06 / 89
p0 1.087e−11 ± 1.32e−14
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0

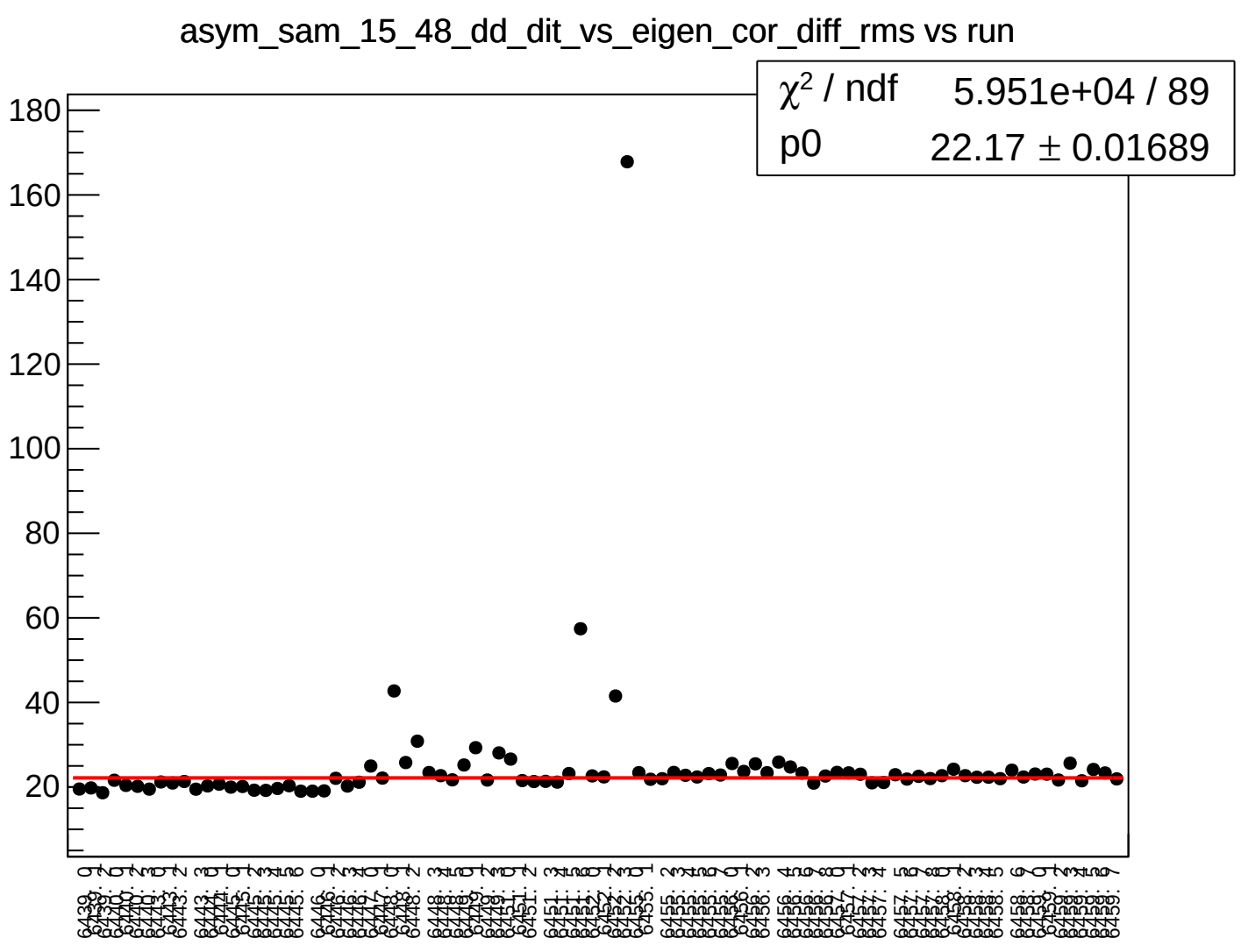

asym_sam_15_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 85.53 / 89
p0 −0.03499 ± 0.02389
pull
Entries 90
Mean 234
Std Dev 0

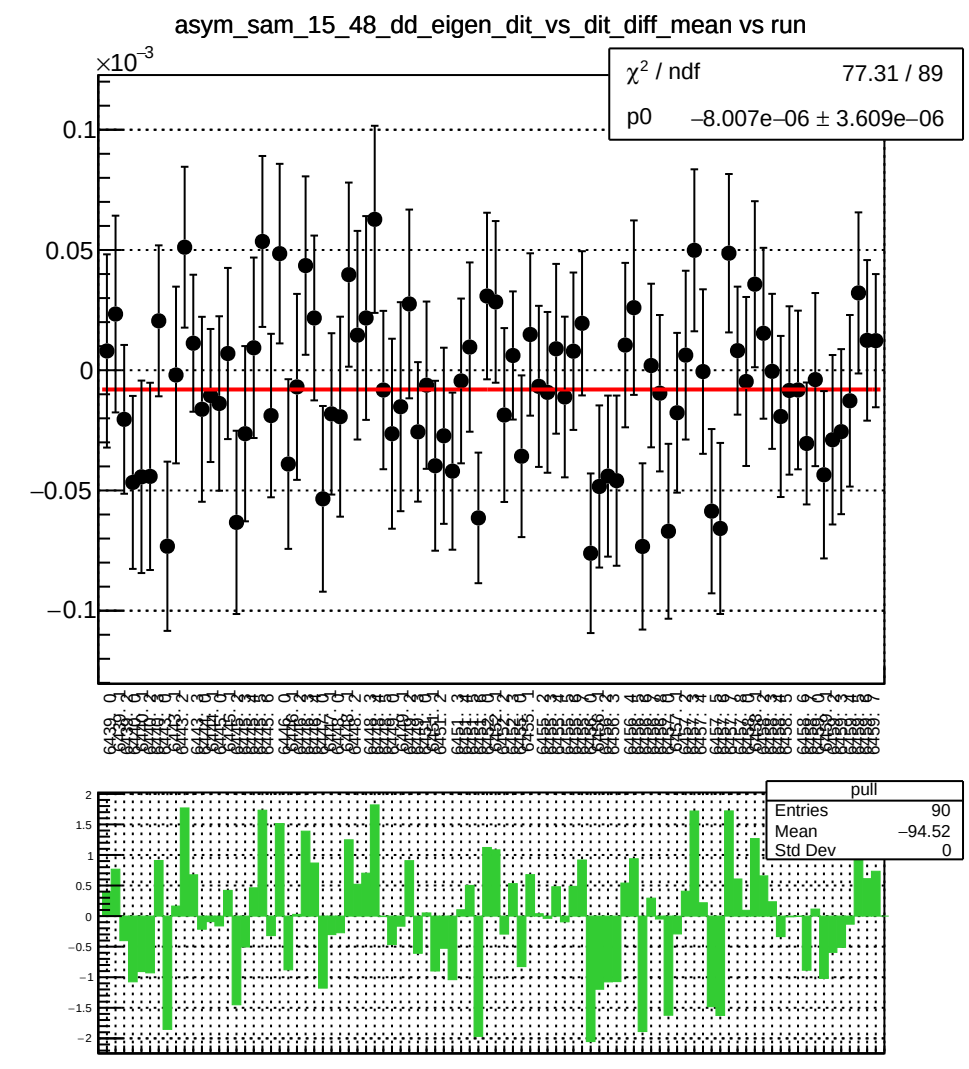

pull1D
Entries 90
Mean −0.02432
Std Dev 0.9746

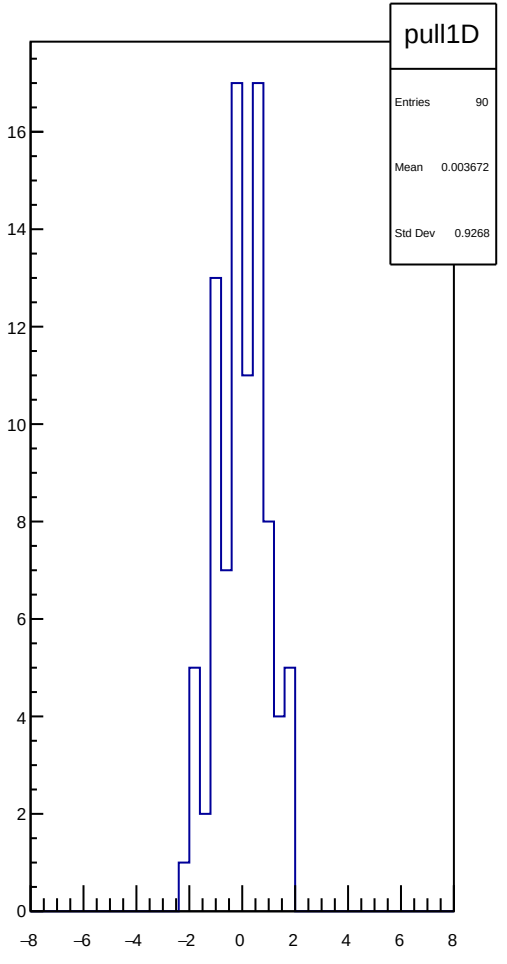

asym_sam_15_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.951e+04 / 89
p0 22.17 ± 0.01689
180
160
140
120
100
80
60
40
20

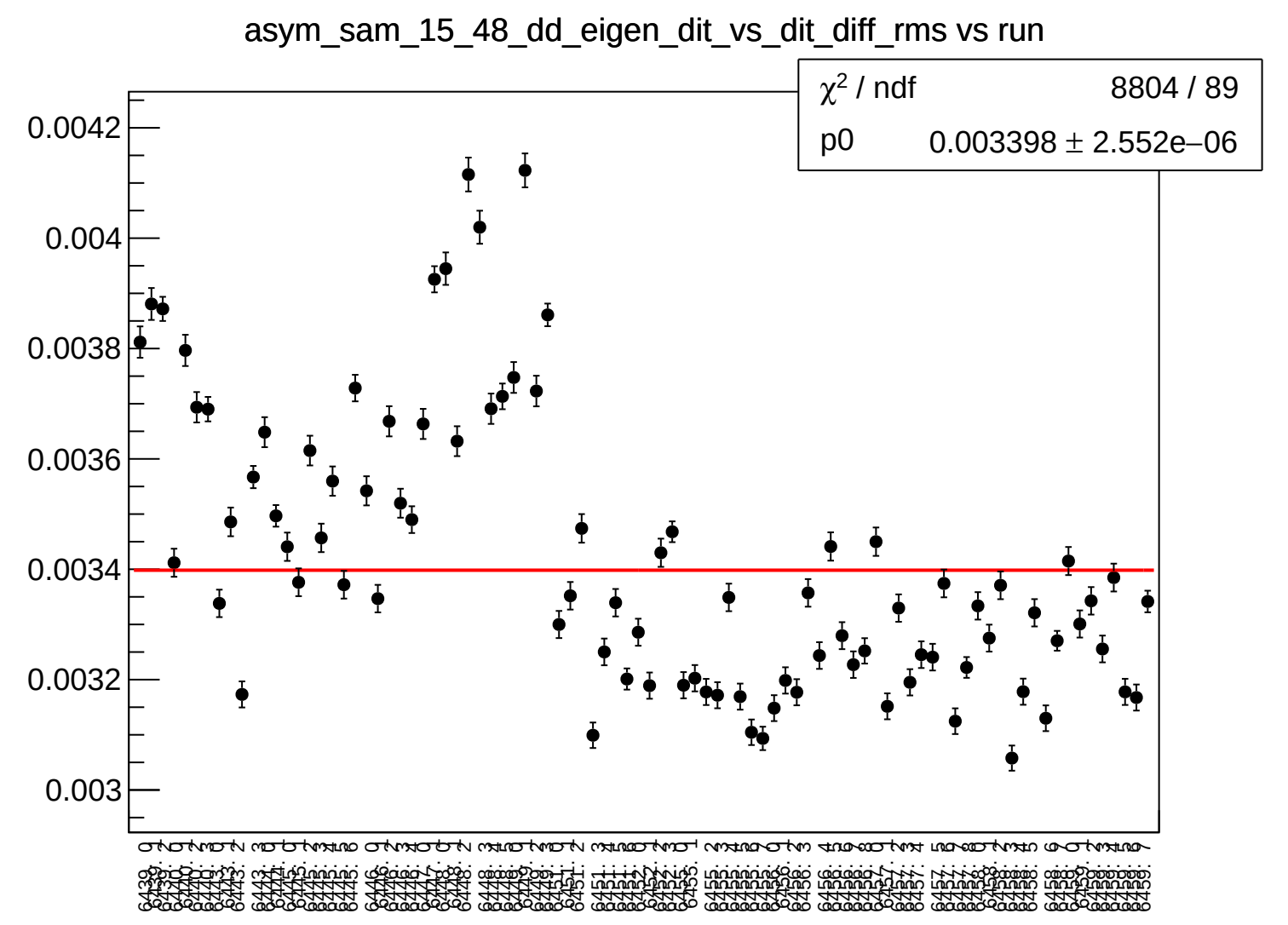

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.53 / 89
p0 −0.03499 ± 0.02389
pull
Entries 90
Mean 234
Std Dev 0

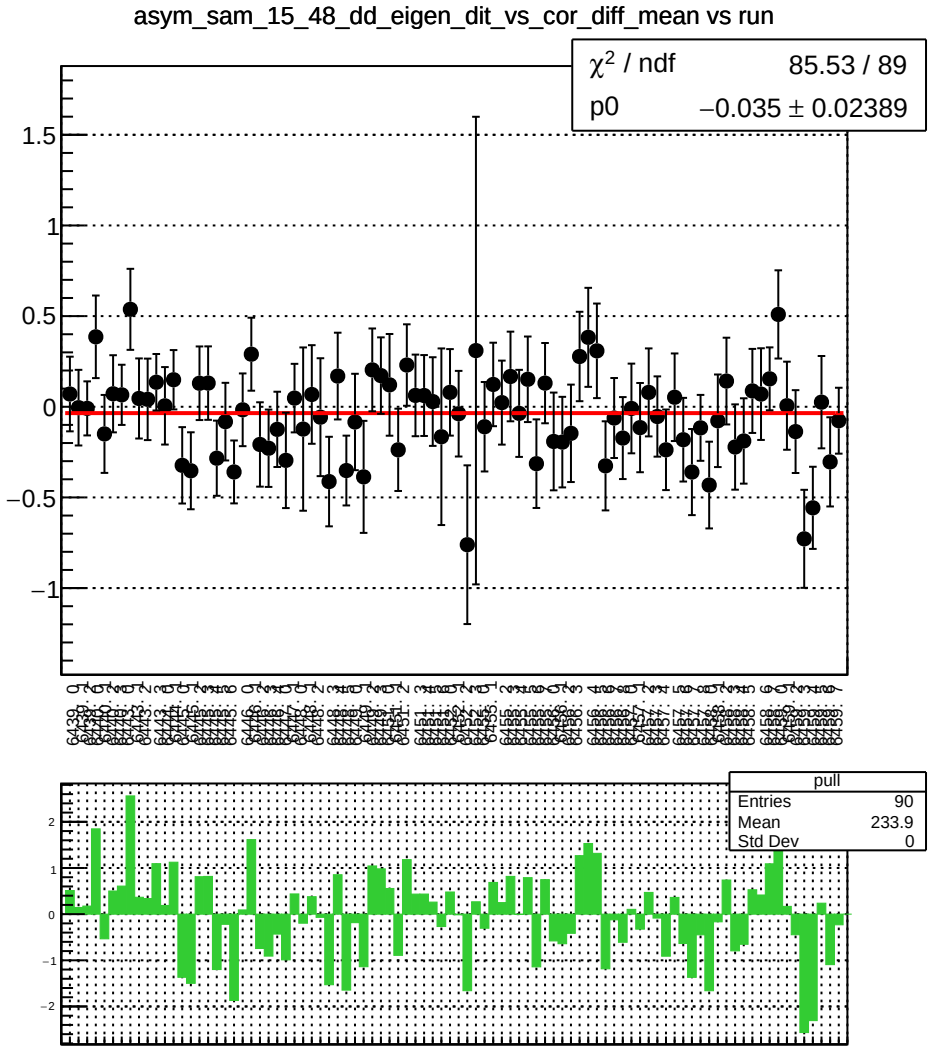

pull1D
Entries 90
Mean −0.02432
Std Dev 0.9746

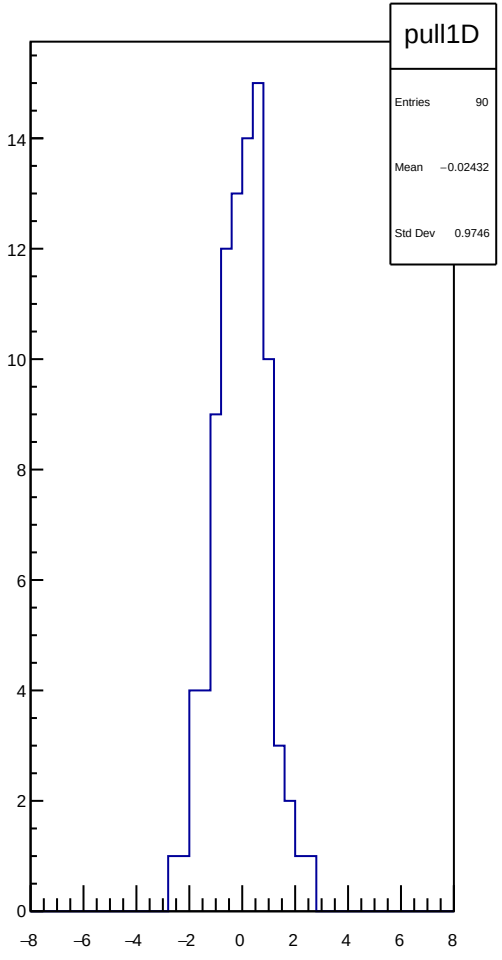

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.951e+04 / 89
p0 22.17 ± 0.01689
180
160
140
120
100
80
60
40
20

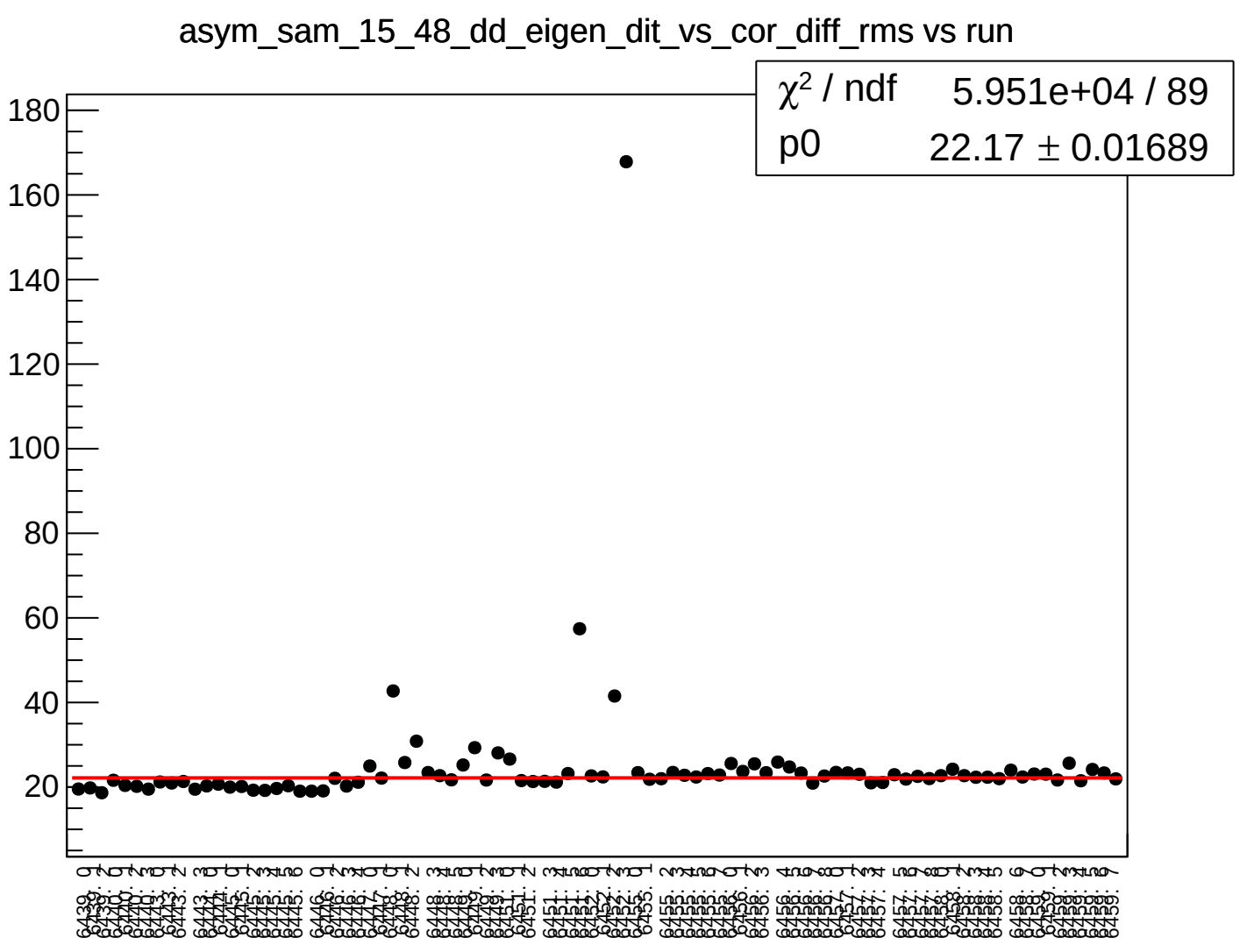

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 77.31 / 89
p0 −8.007e−06 ± 3.609e−06
pull
Entries 90
Mean −94.52
Std Dev 0

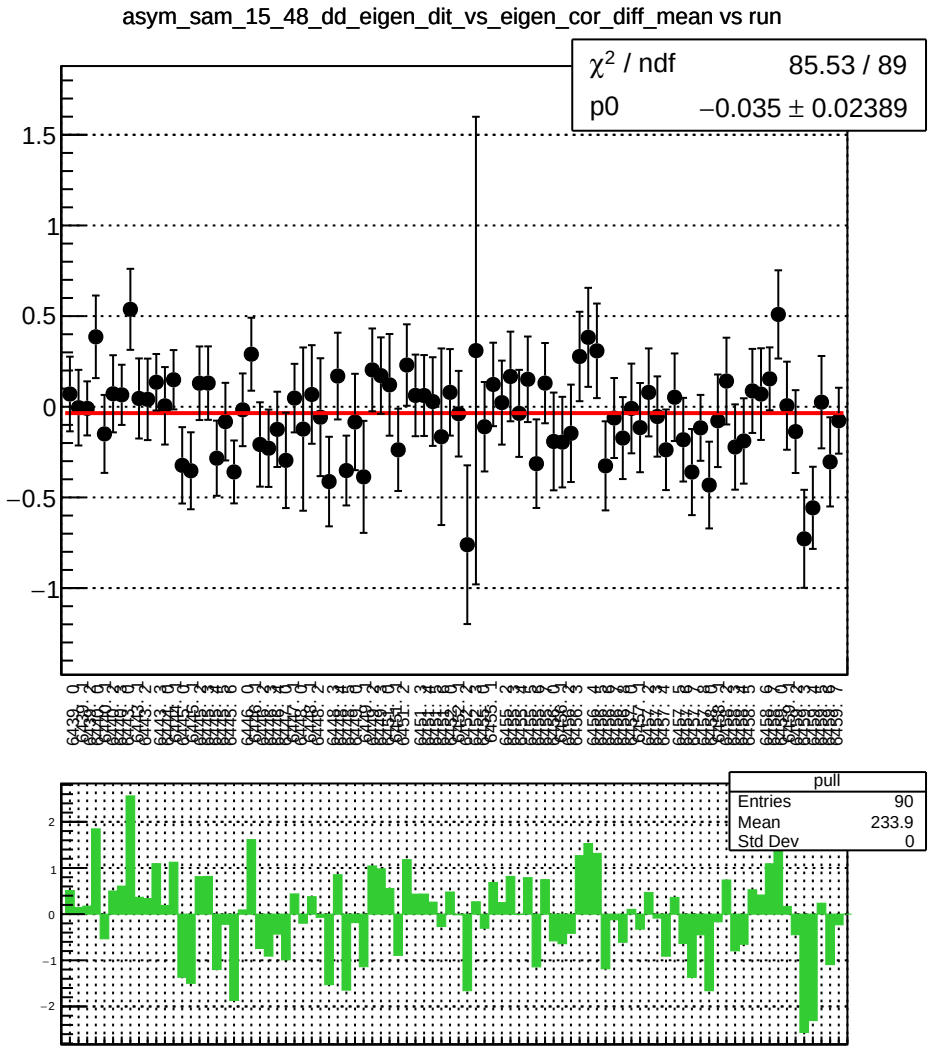

pull1D
Entries 90
Mean 0.003672
Std Dev 0.9268

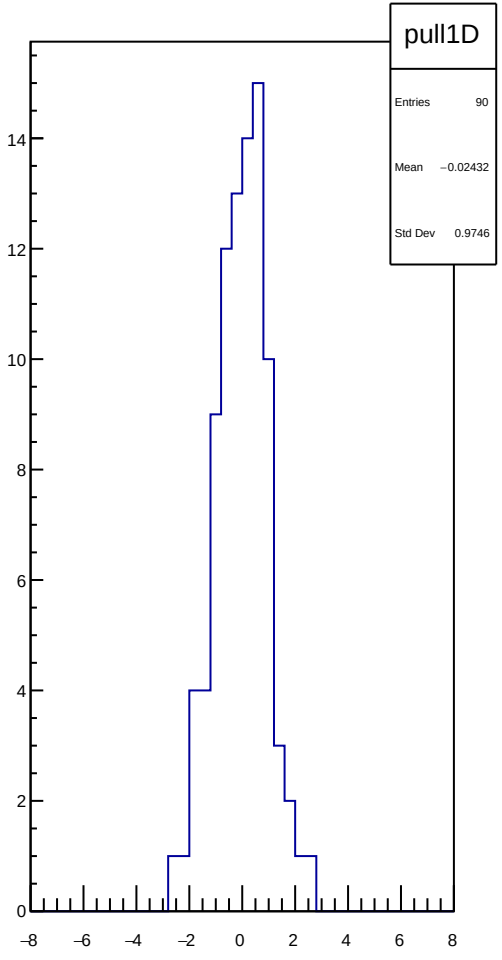

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8804 / 89
p0 0.003398 ± 2.552e−06
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003

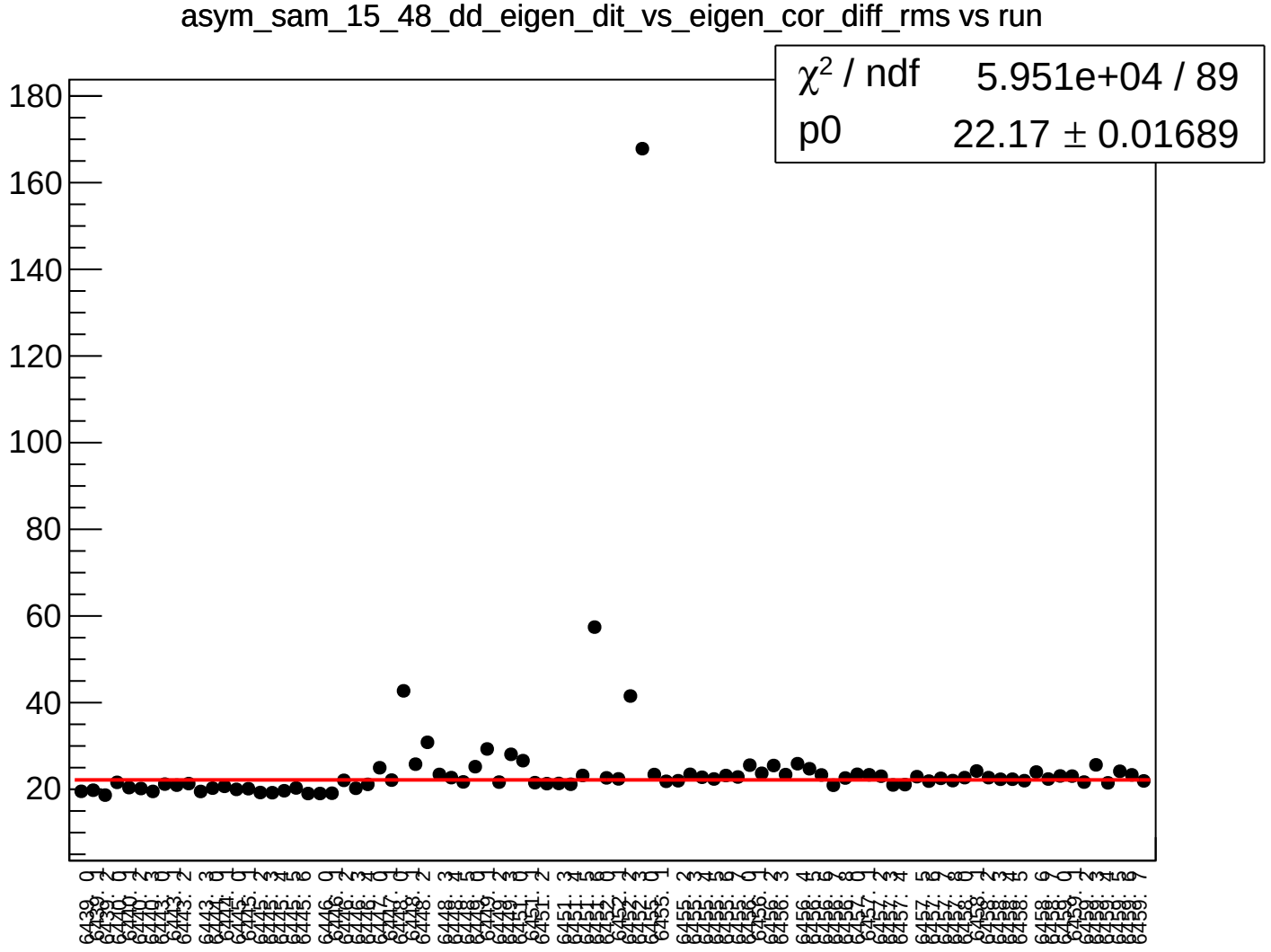

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.53 / 89
p0 −0.035 ± 0.02389
pull
Entries 90
Mean 233.9
Std Dev 0

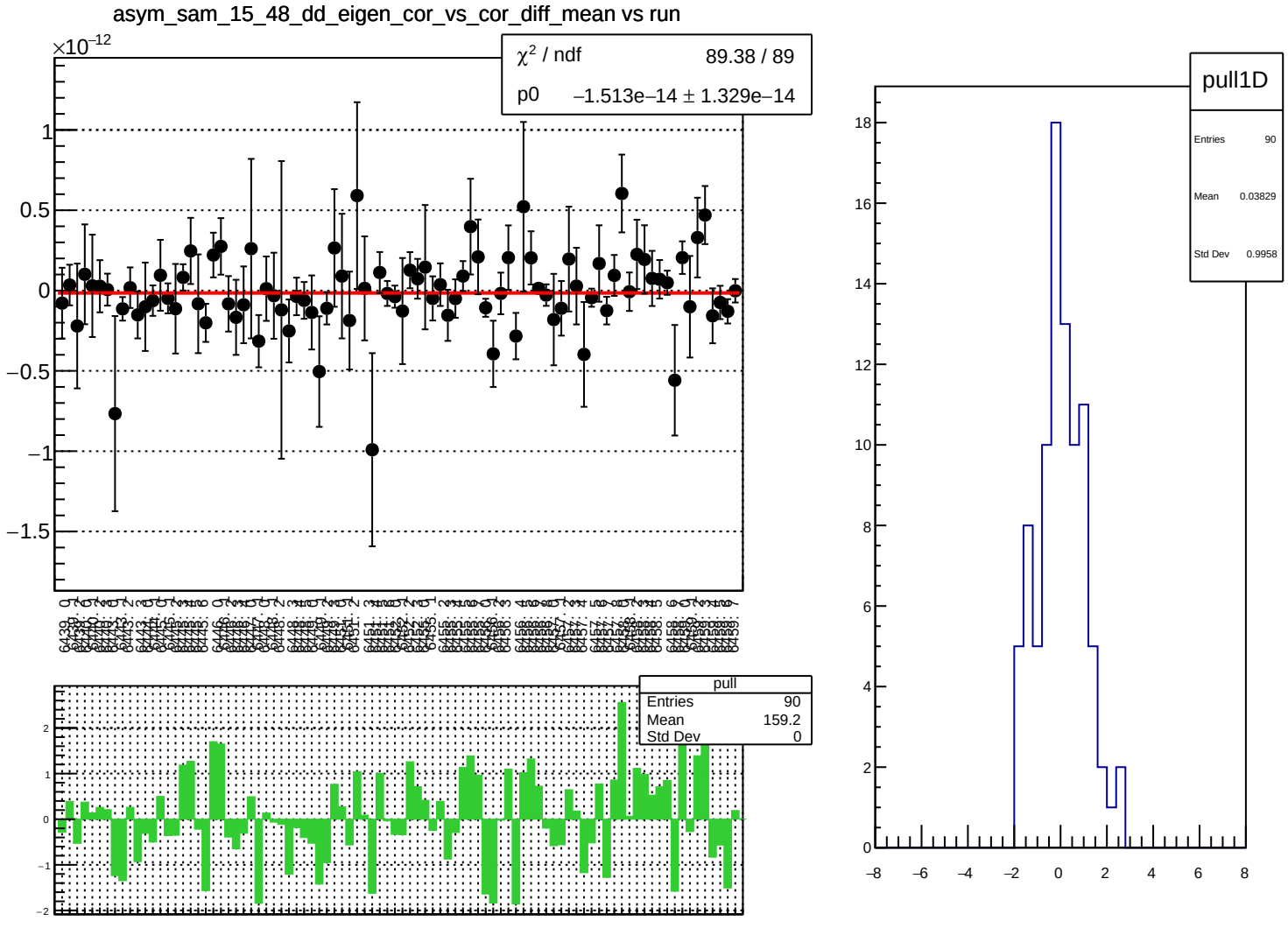

pull1D
Entries 90
Mean −0.02432
Std Dev 0.9746

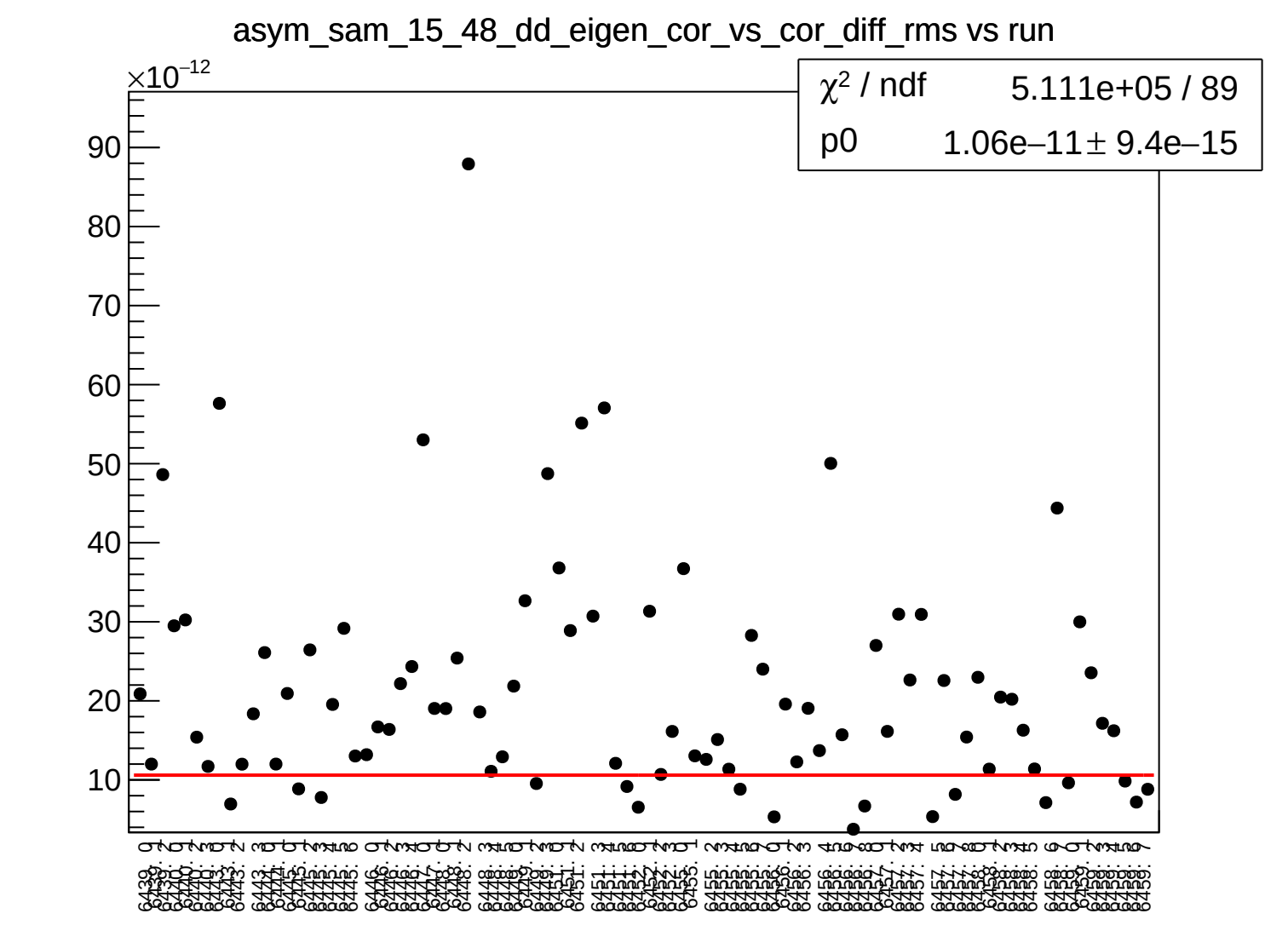

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.951e+04 / 89
p0 22.17 ± 0.01689
180
160
140
120
100
80
60
40
20

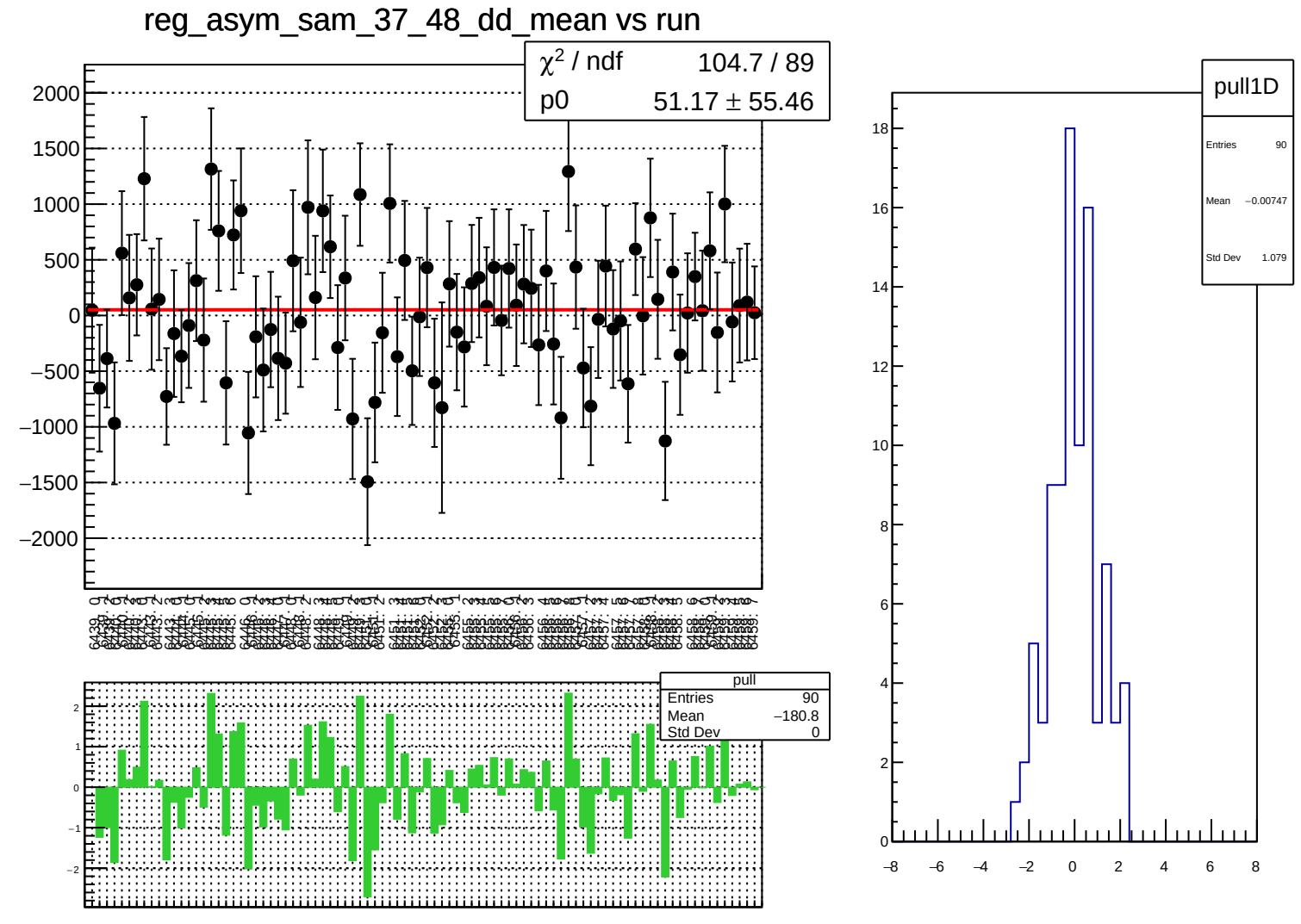

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.53 / 89
p0 −0.035 ± 0.02389
pull
Entries 90
Mean 233.9
Std Dev 0

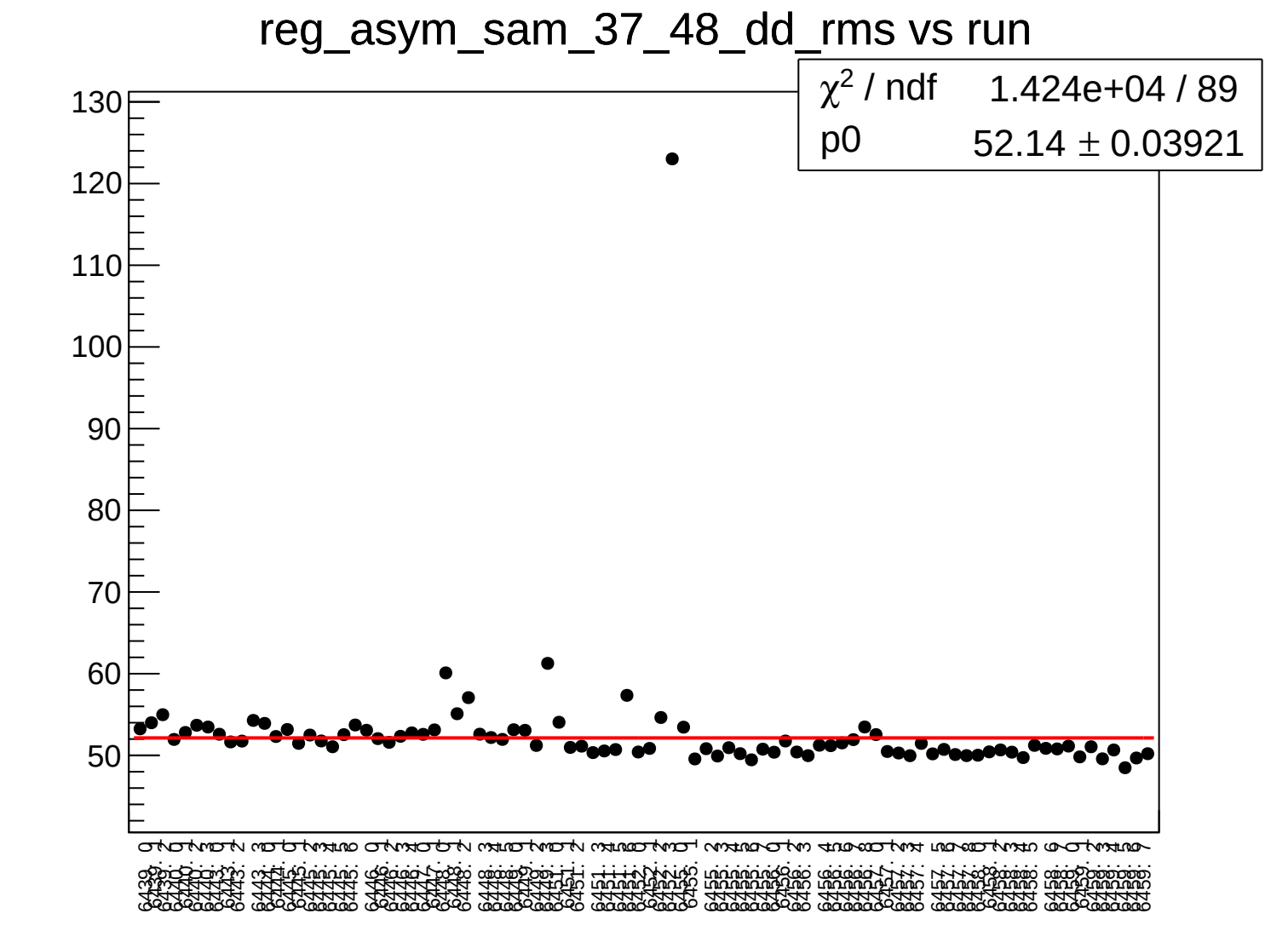

pull1D
Entries 90
Mean −0.02432
Std Dev 0.9746

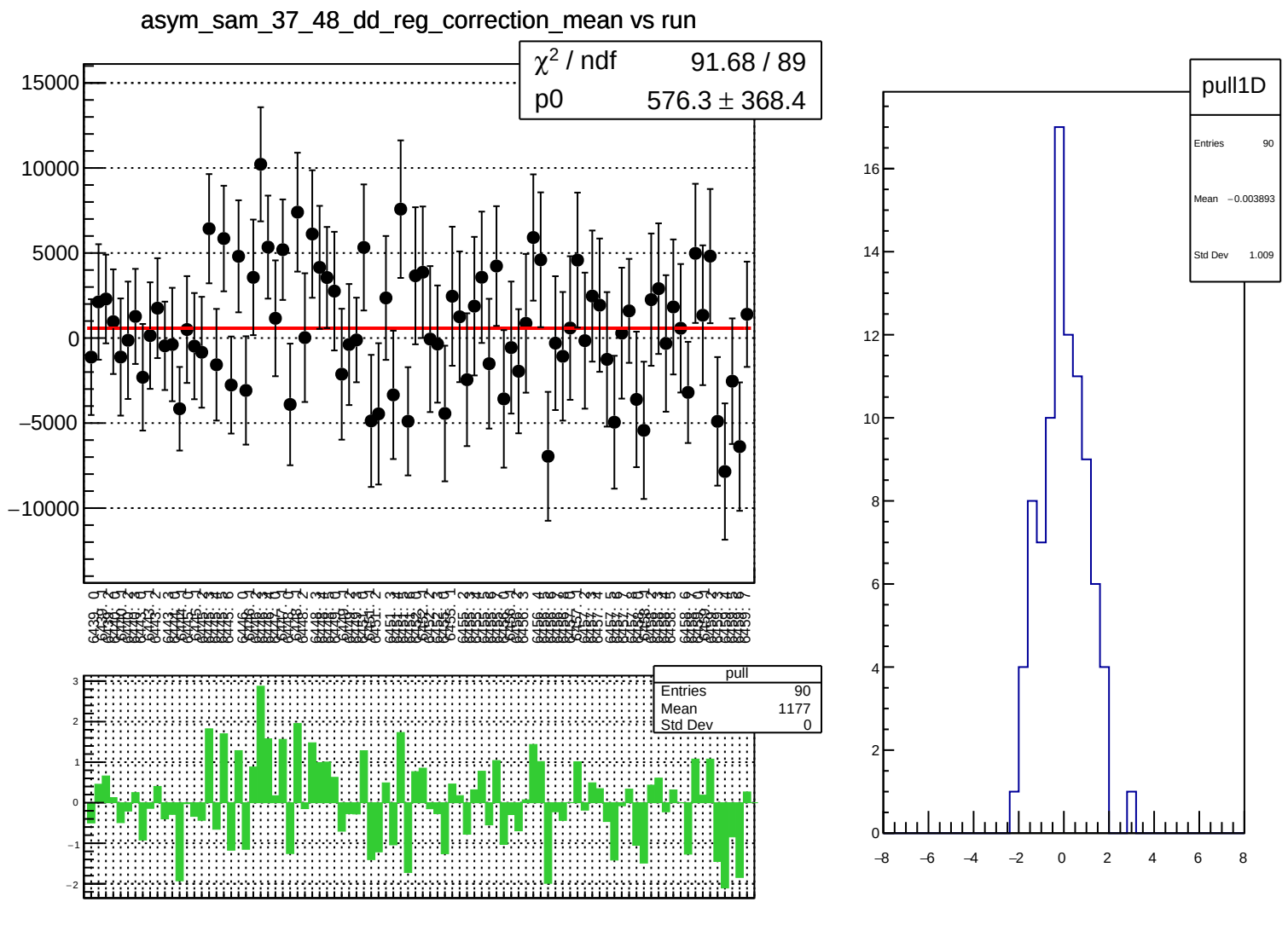

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.951e+04 / 89
p0 22.17 ± 0.01689
180
160
140
120
100
80
60
40
20

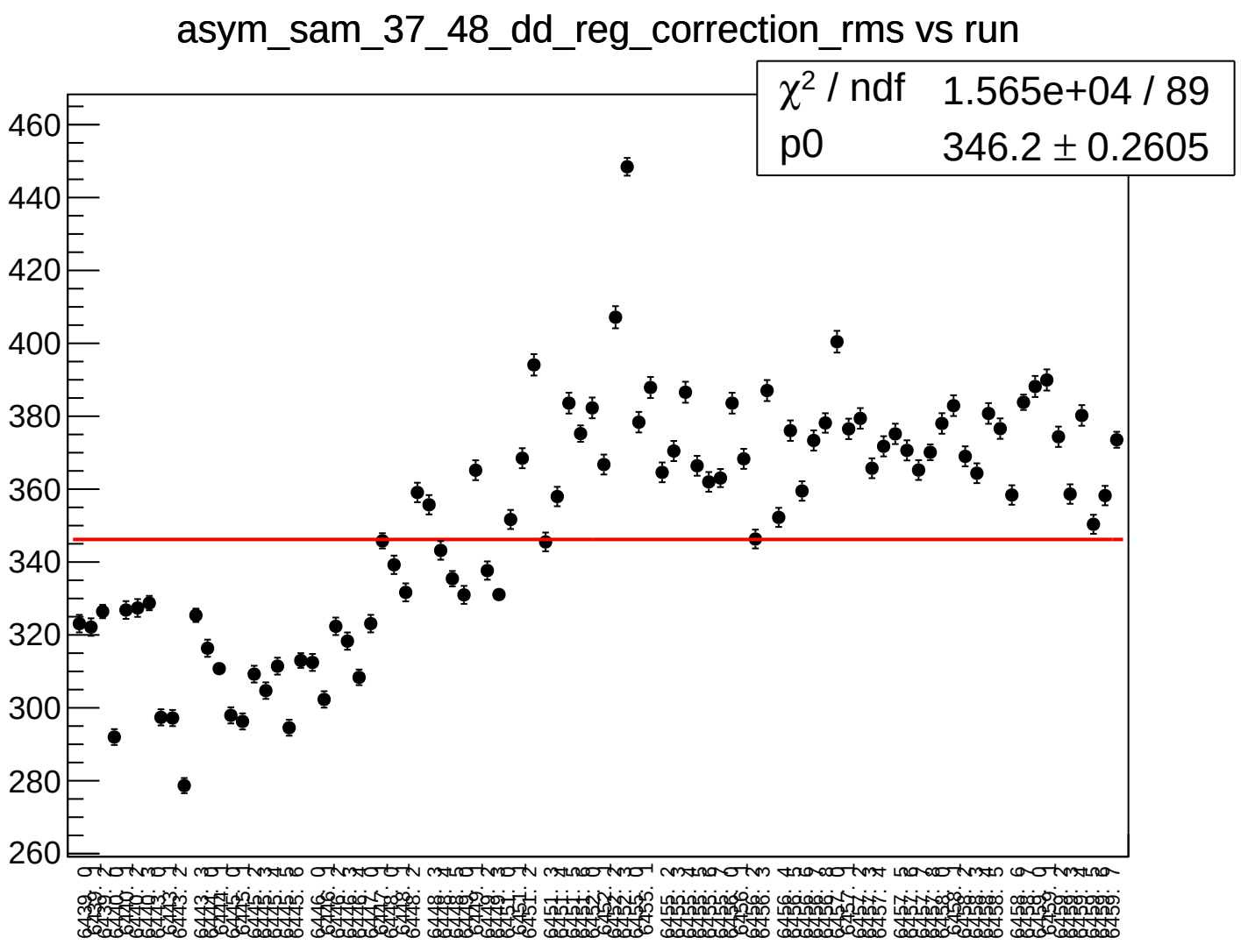

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.38 / 89
p0 −1.513e−14 ± 1.329e−14
pull
Entries 90
Mean 159.2
Std Dev 0
pull1D
Entries 90
Mean 0.03829
Std Dev 0.9958

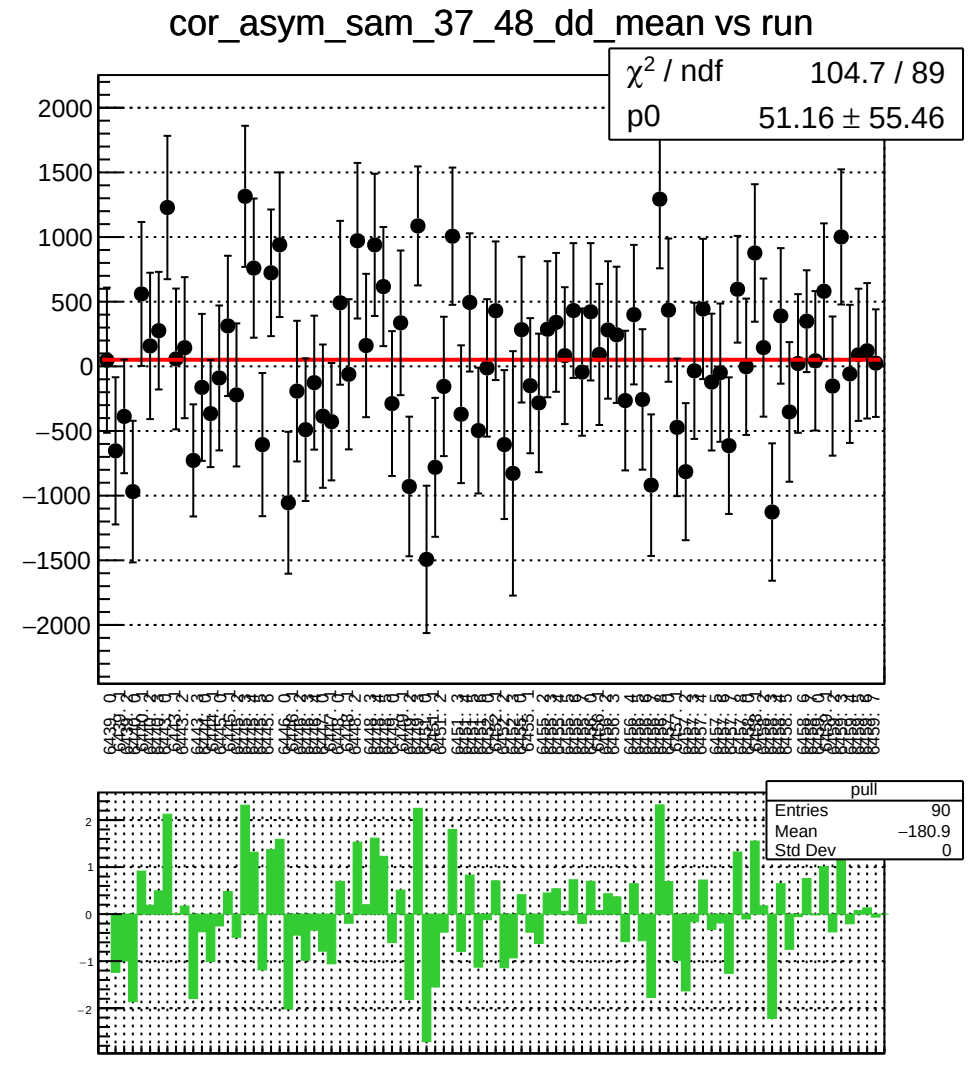

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.111e+05 / 89
p0 1.06e−11 ± 9.4e−15
90
80
70
60
50
40
30
20
10

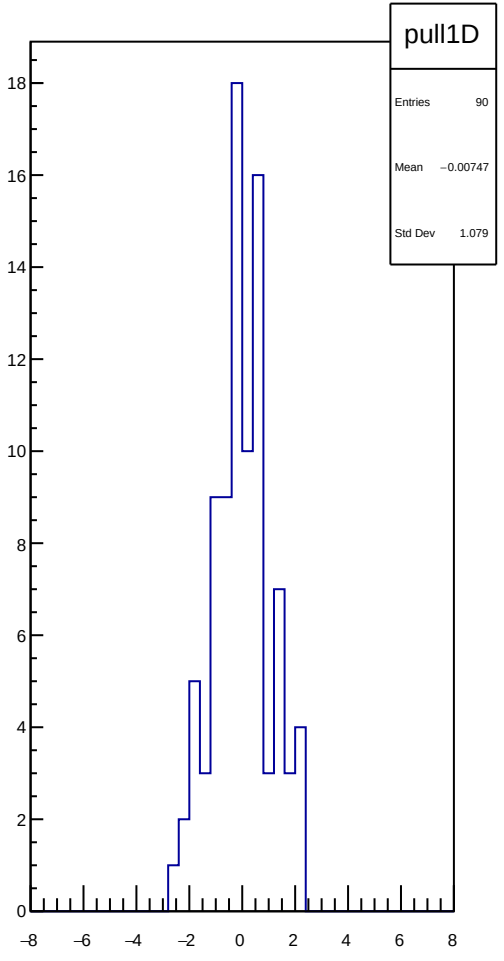

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 104.7 / 89
p0 51.17 ± 55.46
pull
Entries 90
Mean −180.8
Std Dev 0
pull1D
Entries 90
Mean −0.00747
Std Dev 1.079

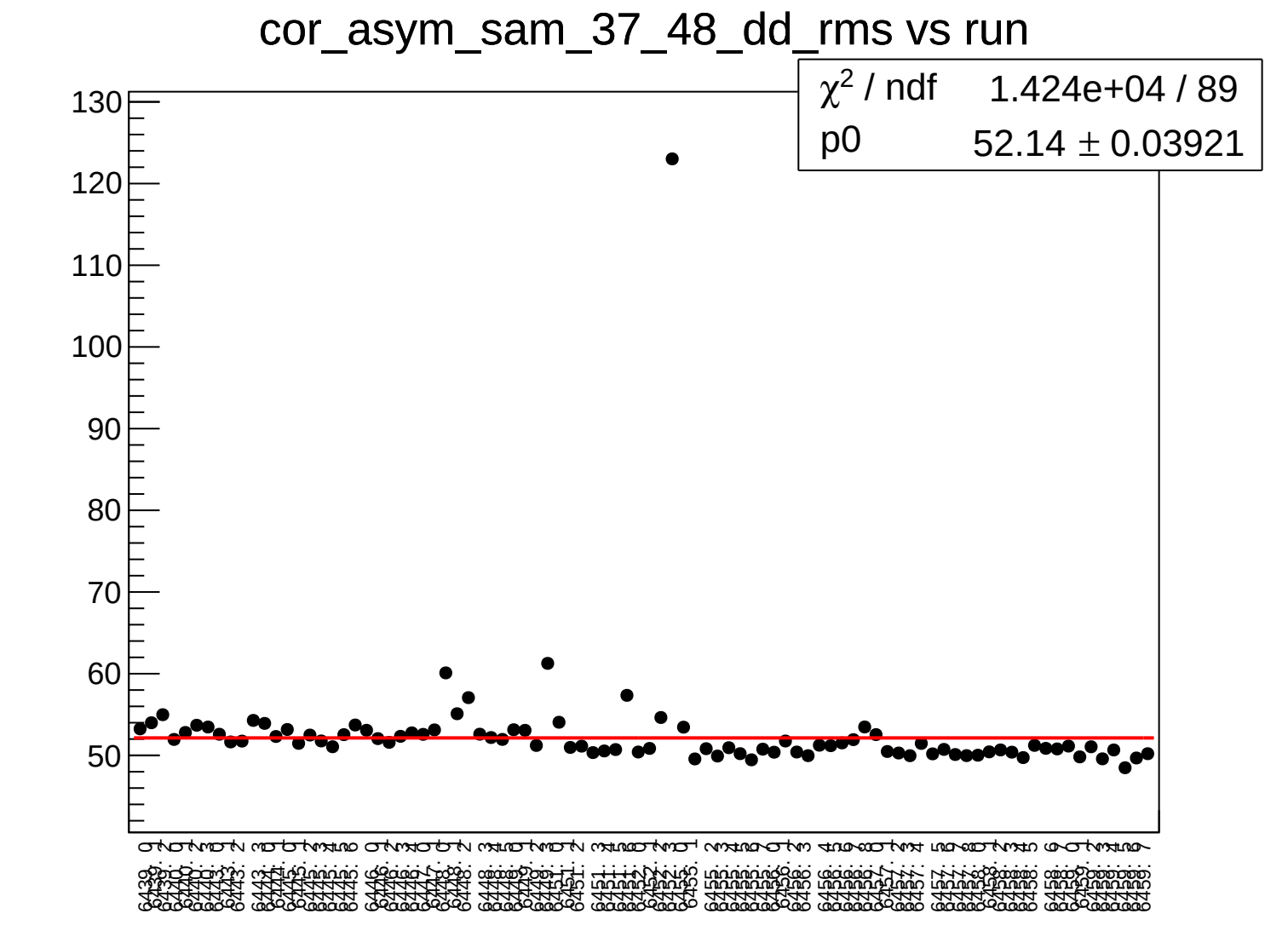

reg_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 1.424e+04 / 89
p0 52.14 ± 0.03921
130
120
110
100
90
80
70
60
50

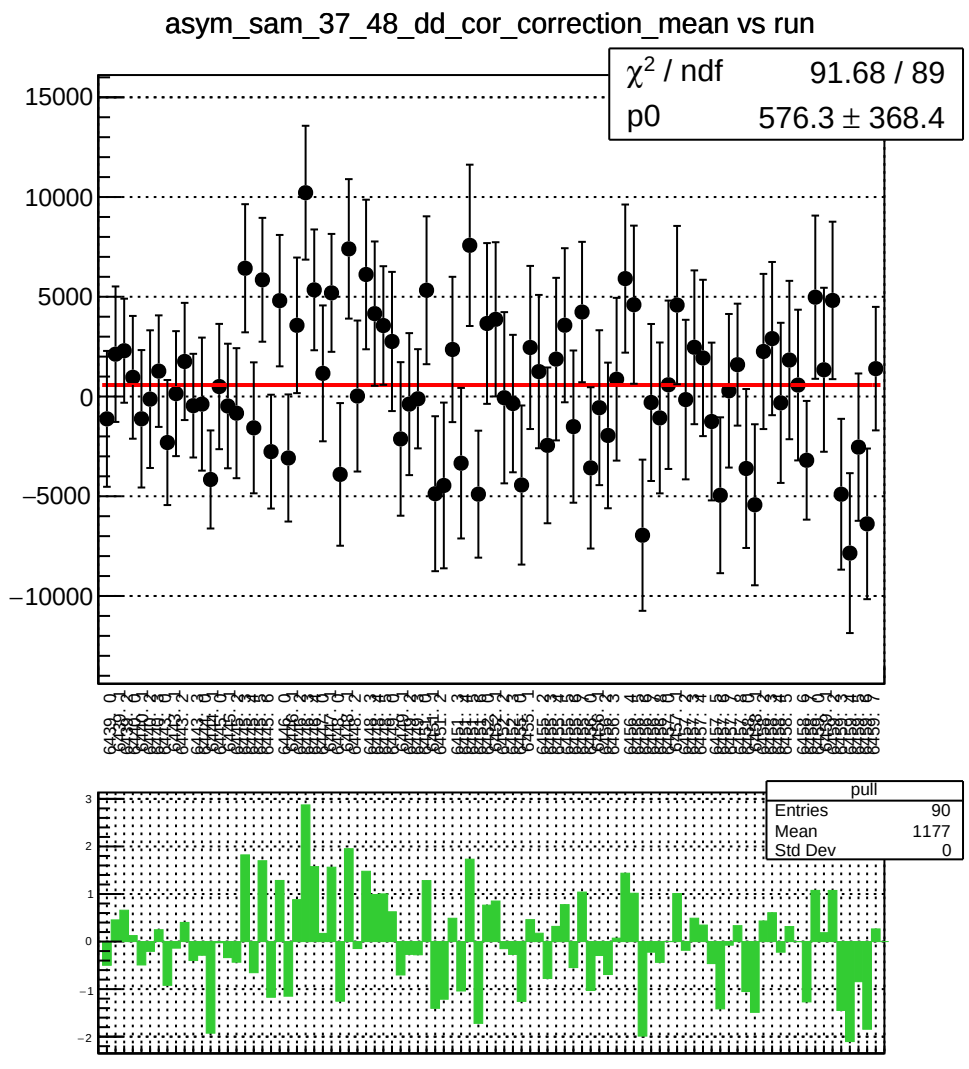

asym_sam_37_48_dd_reg_correction_mean vs run
χ² / ndf 91.68 / 89
p0 576.3 ± 368.4
15000
10000
5000
0
−5000
−10000
pull
Entries 90
Mean 1177
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.003893
Std Dev 1.009
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

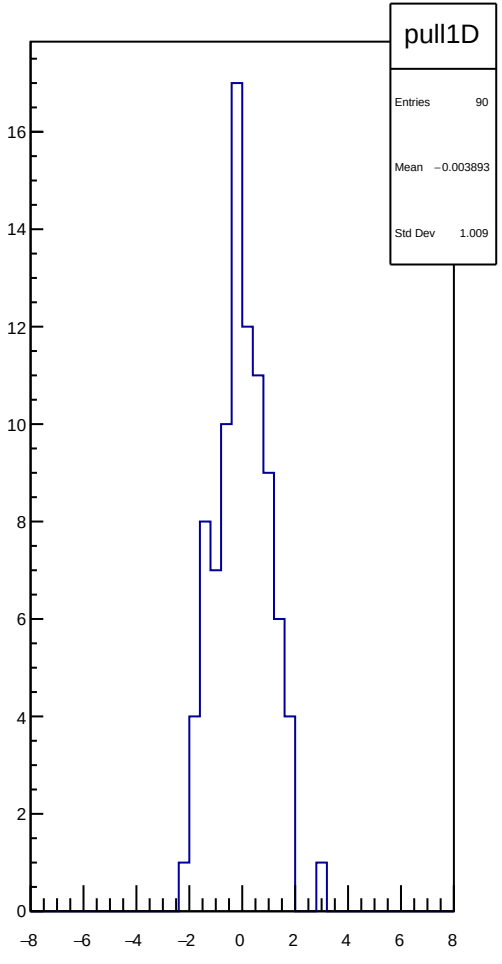

asym_sam_37_48_dd_reg_correction_rms vs run
χ² / ndf 1.565e+04 / 89
p0 346.2 ± 0.2605
460
440
420
400
380
360
340
320
300
280
260


cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 104.7 / 89
p0 51.16 ± 55.46
pull
Entries 90
Mean −180.9
Std Dev 0


pull1D
Entries 90
Mean −0.00747
Std Dev 1.079


cor_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 1.424e+04 / 89
p0 52.14 ± 0.03921
130
120
110
100
90
80
70
60
50


asym_sam_37_48_dd_cor_correction_mean vs run
χ² / ndf 91.68 / 89
p0 576.3 ± 368.4
15000
10000
5000
0
−5000
−10000
pull
Entries 90
Mean 1177
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 90
Mean −0.003893
Std Dev 1.009
16
14
12
10
8
6
4
2
0
−8
−6
−4
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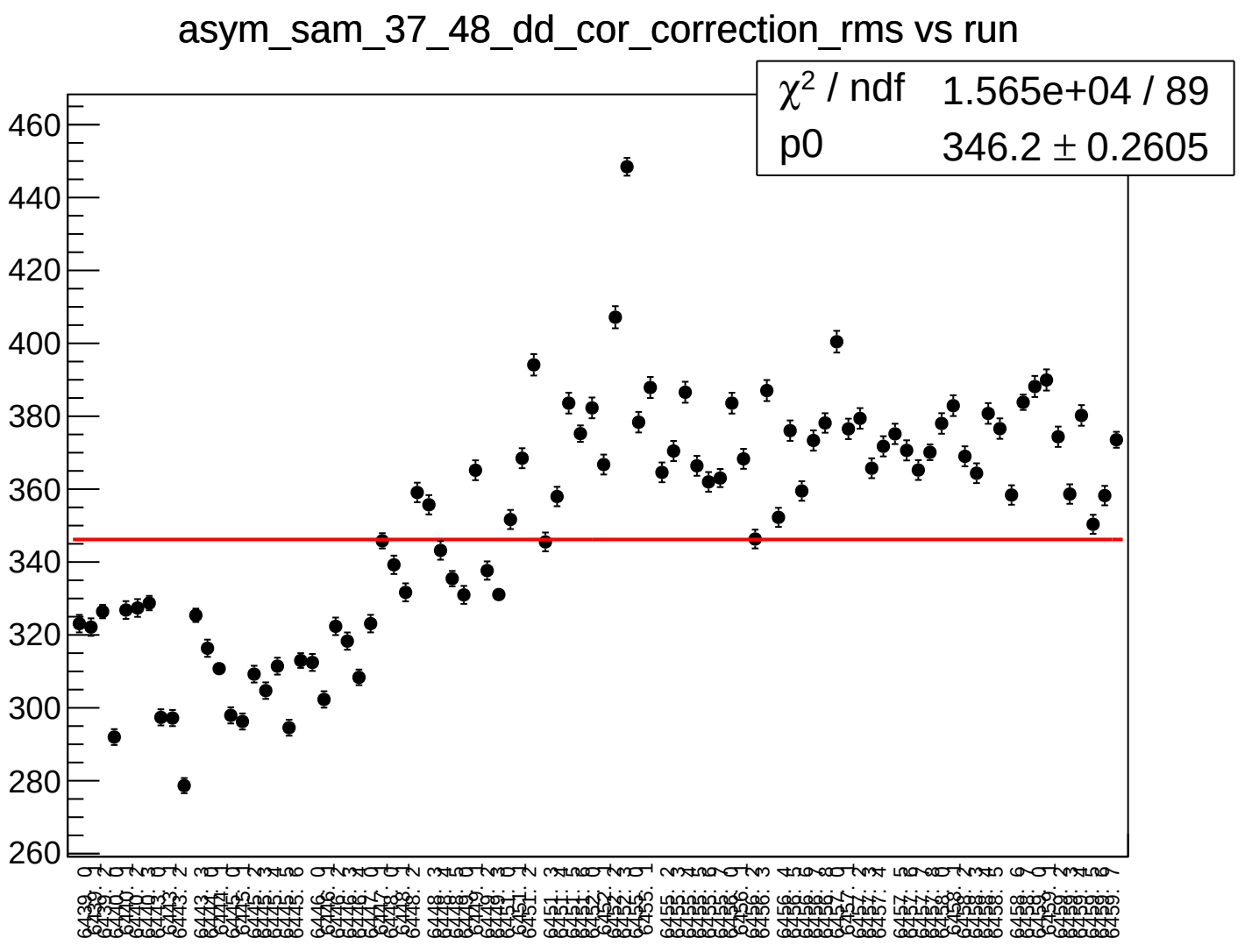
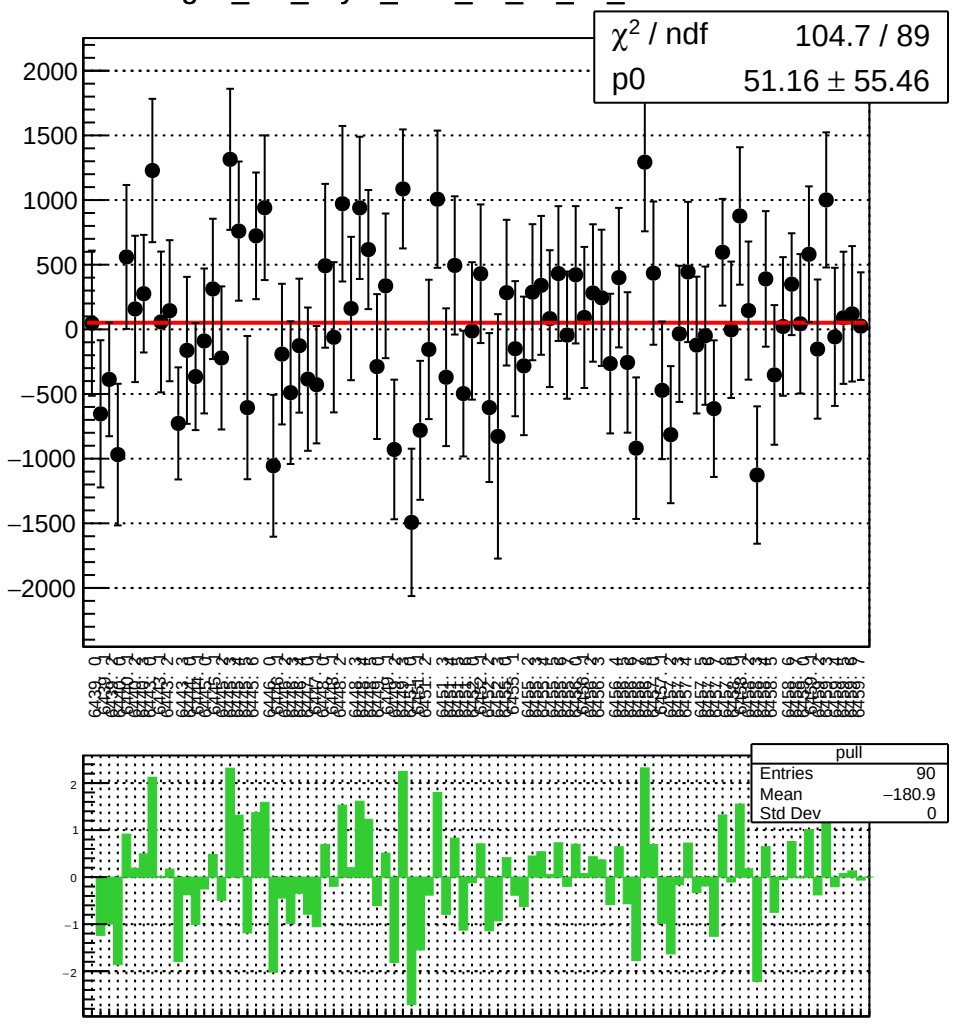
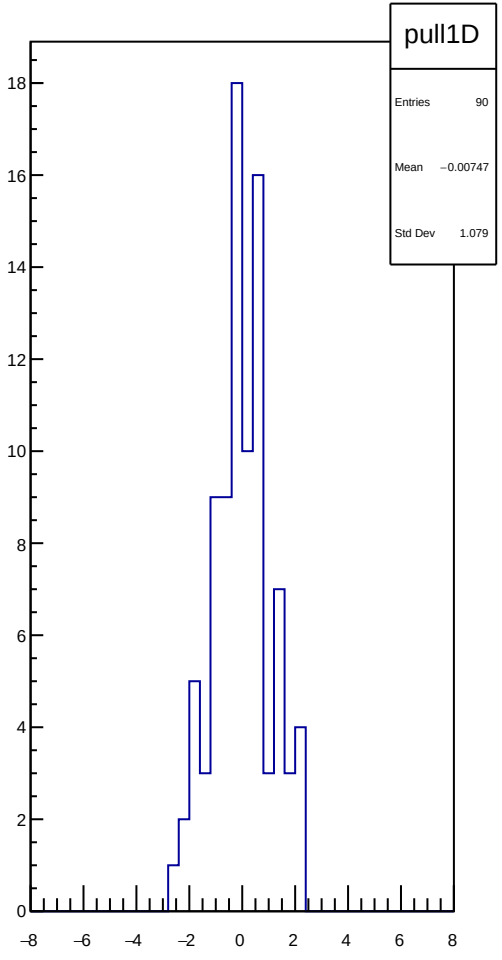
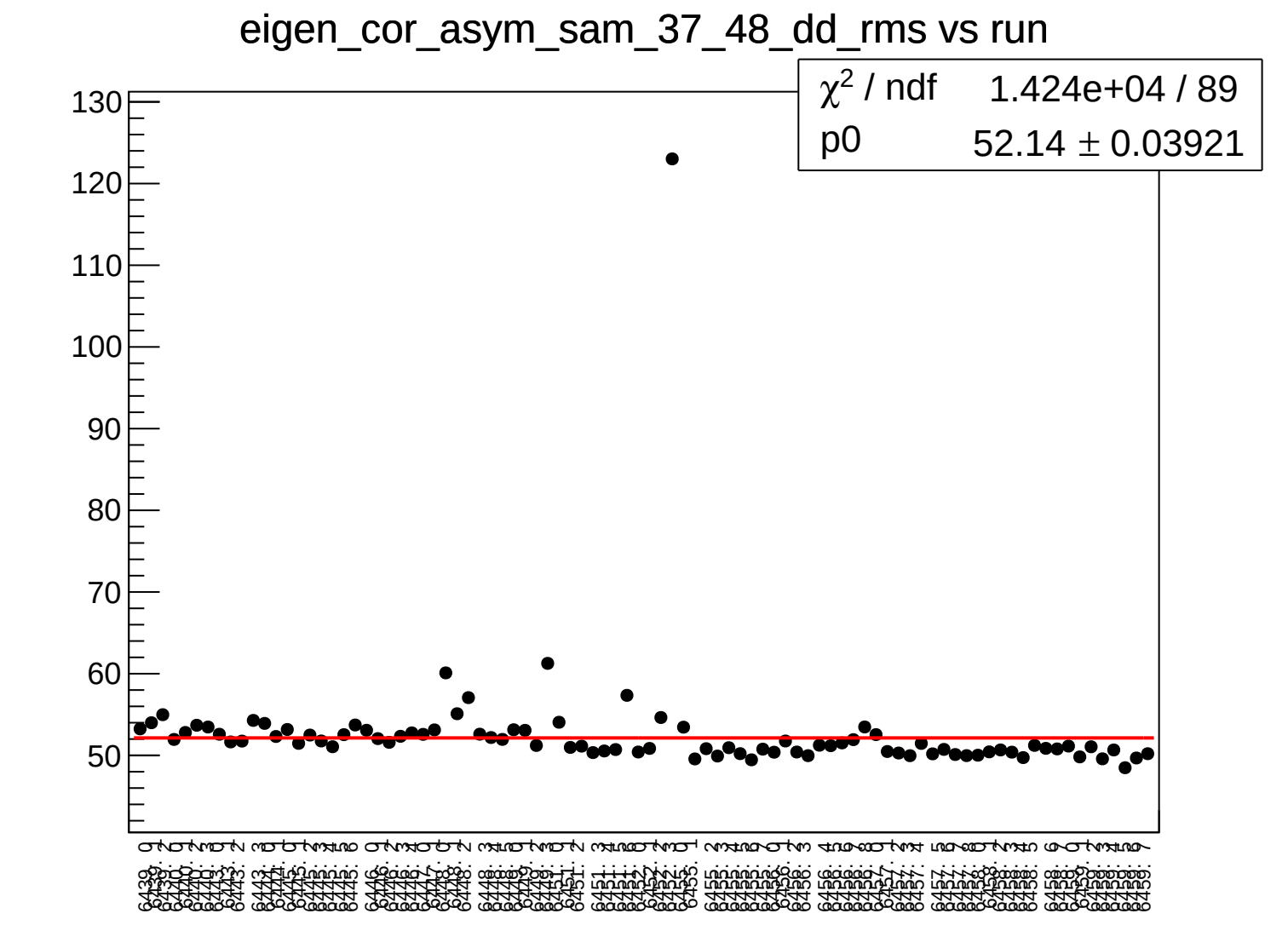
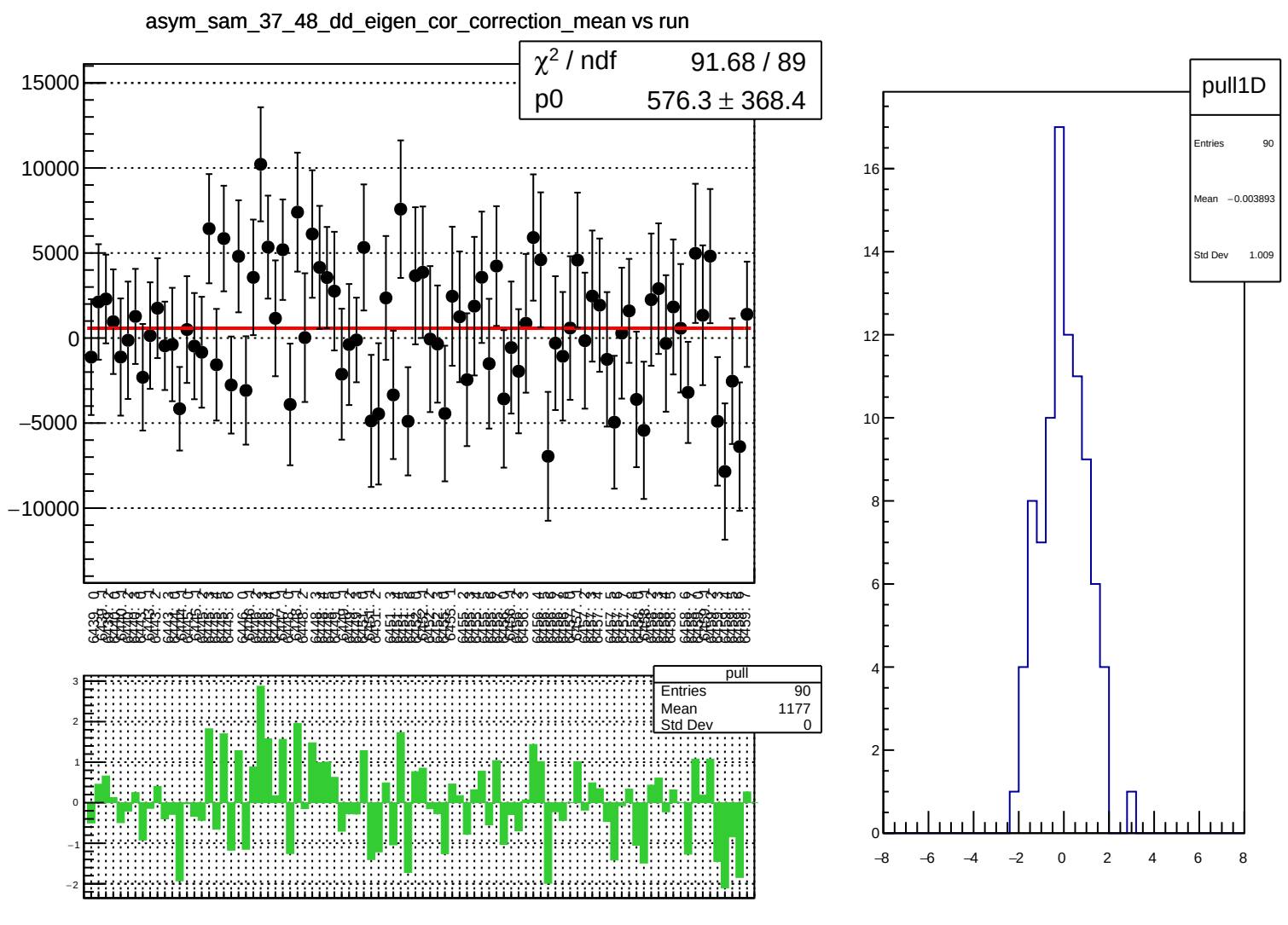
2
4
6
8


asym_sam_37_48_dd_cor_correction_rms vs run
χ² / ndf 1.565e+04 / 89
p0 346.2 ± 0.2605
460
440
420
400
380
360
340
320
300
280
260


eigen_cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 104.7 / 89
p0 51.16 ± 55.46
pull
Entries 90
Mean −180.9
Std Dev 0


pull1D
Entries 90
Mean −0.00747
Std Dev 1.079


eigen_cor_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 1.424e+04 / 89
p0 52.14 ± 0.03921
130
120
110
100
90
80
70
60
50


asym_sam_37_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 91.68 / 89
p0 576.3 ± 368.4
15000
10000
5000
0
−5000
−10000
pull
Entries 90
Mean 1177
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.003893
Std Dev 1.009
16
14
12
10
8
6
4
2
0
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−6
−4
−2
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2
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6
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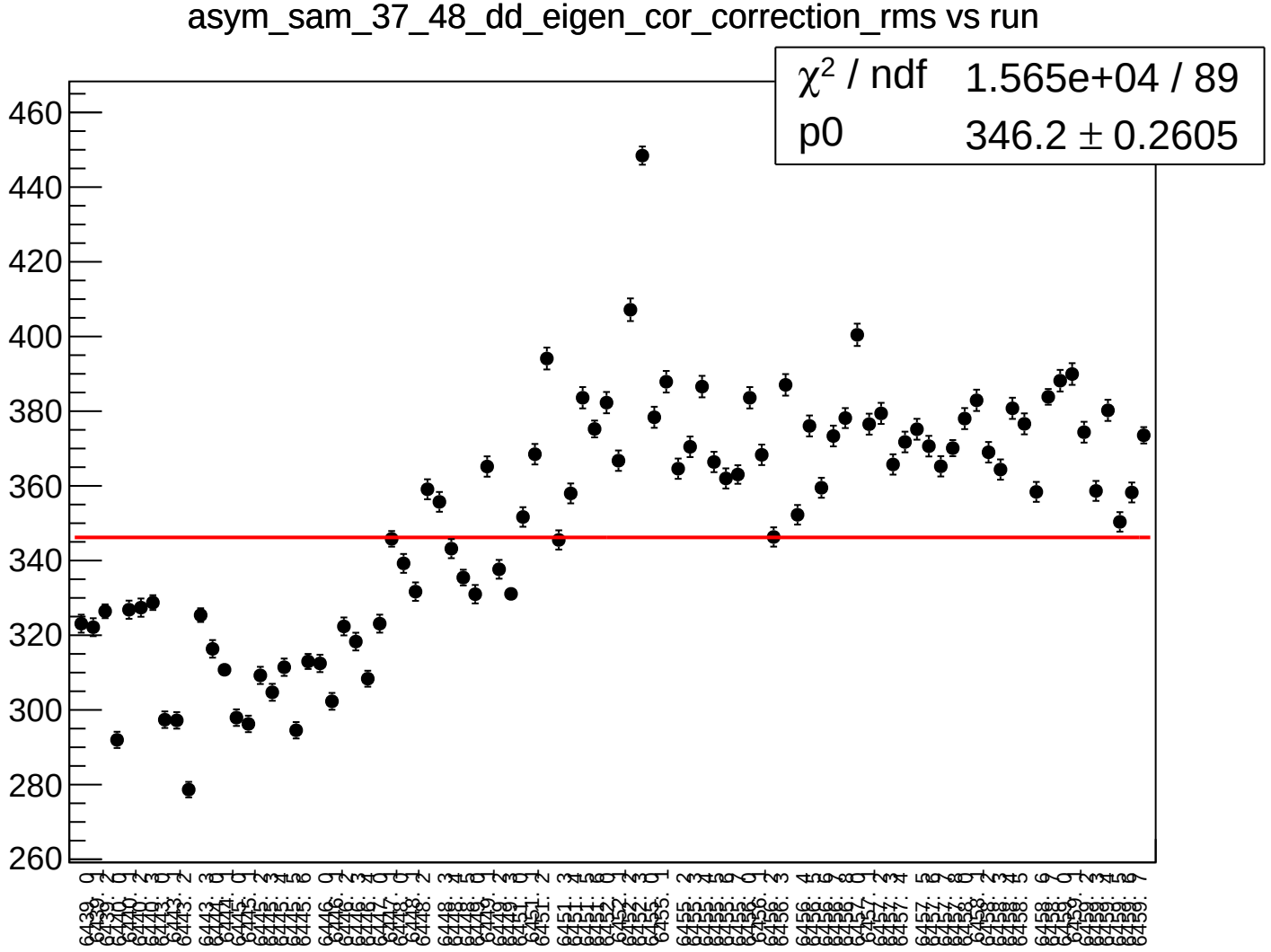
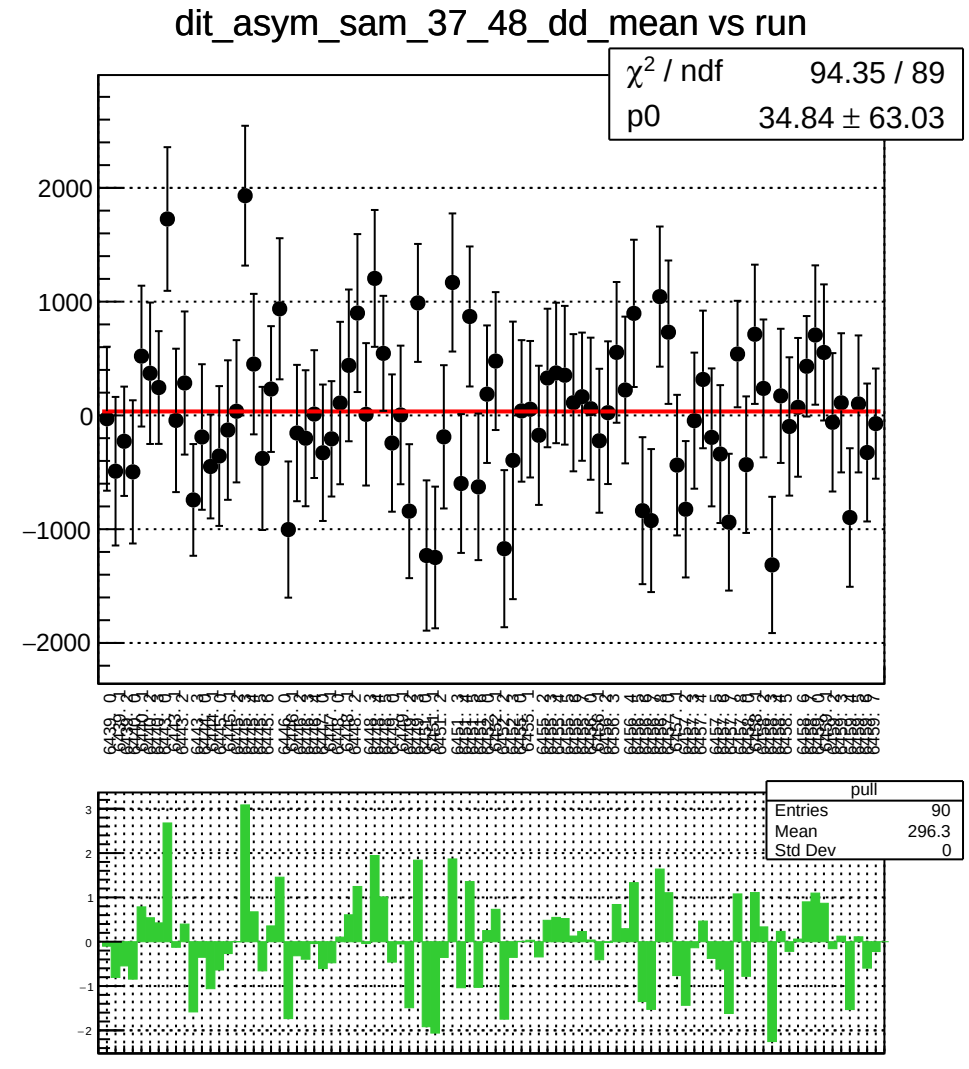
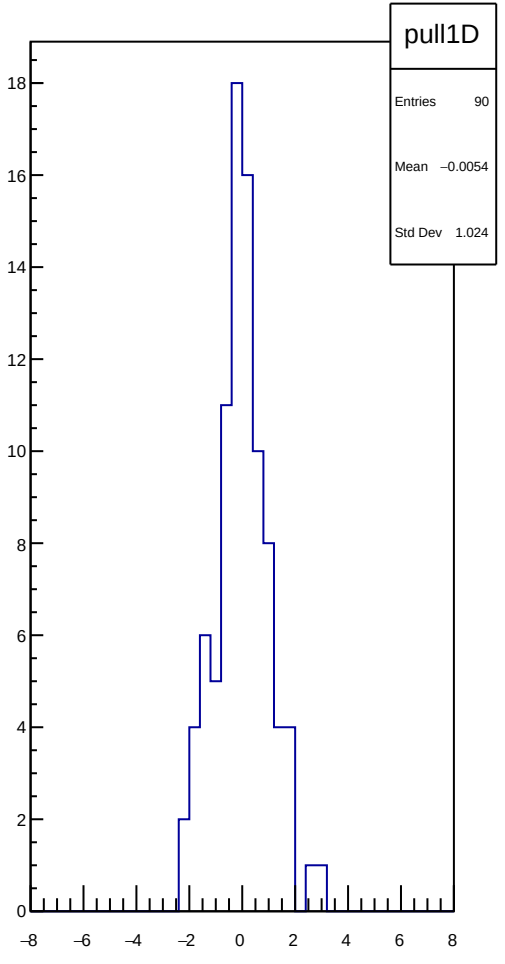
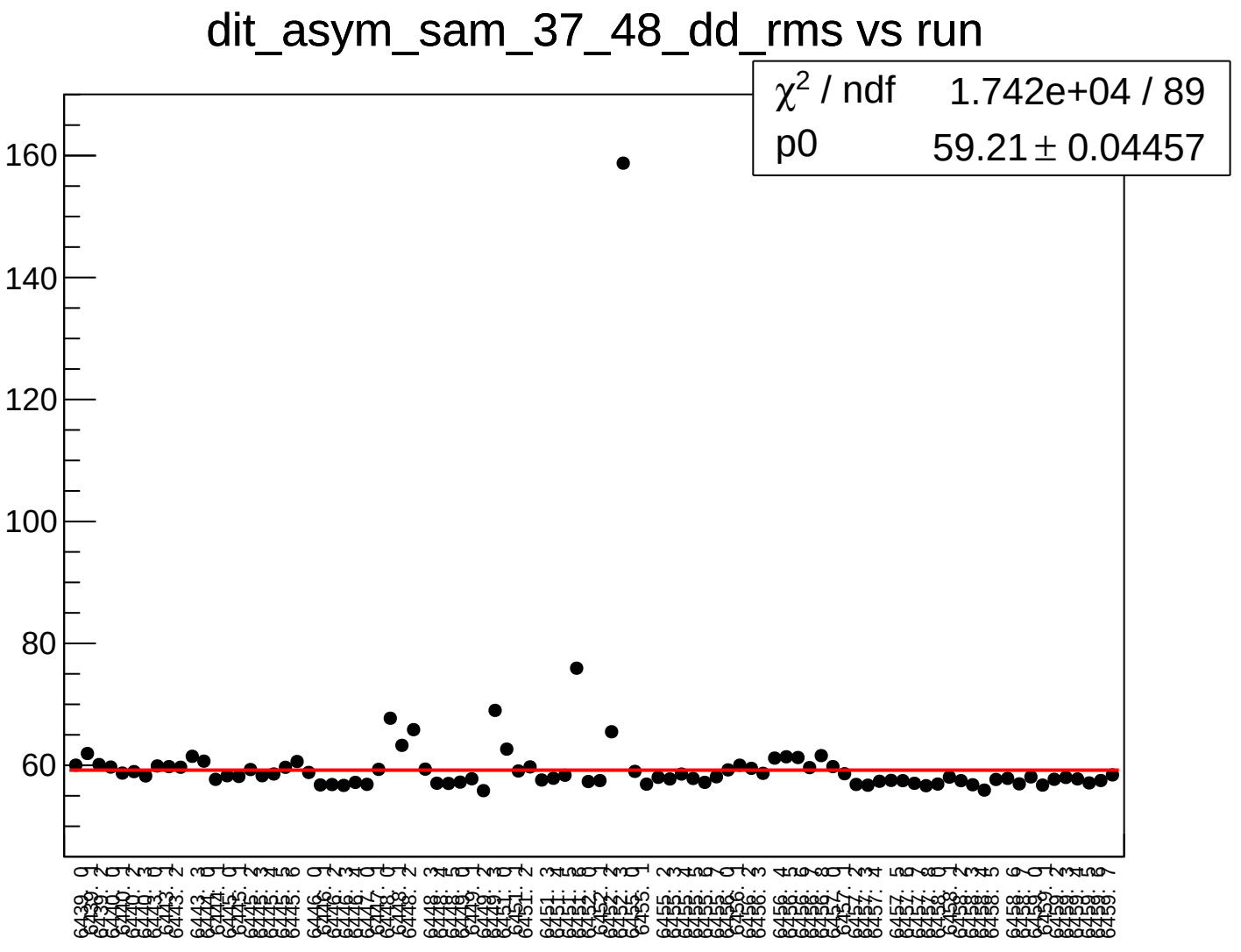
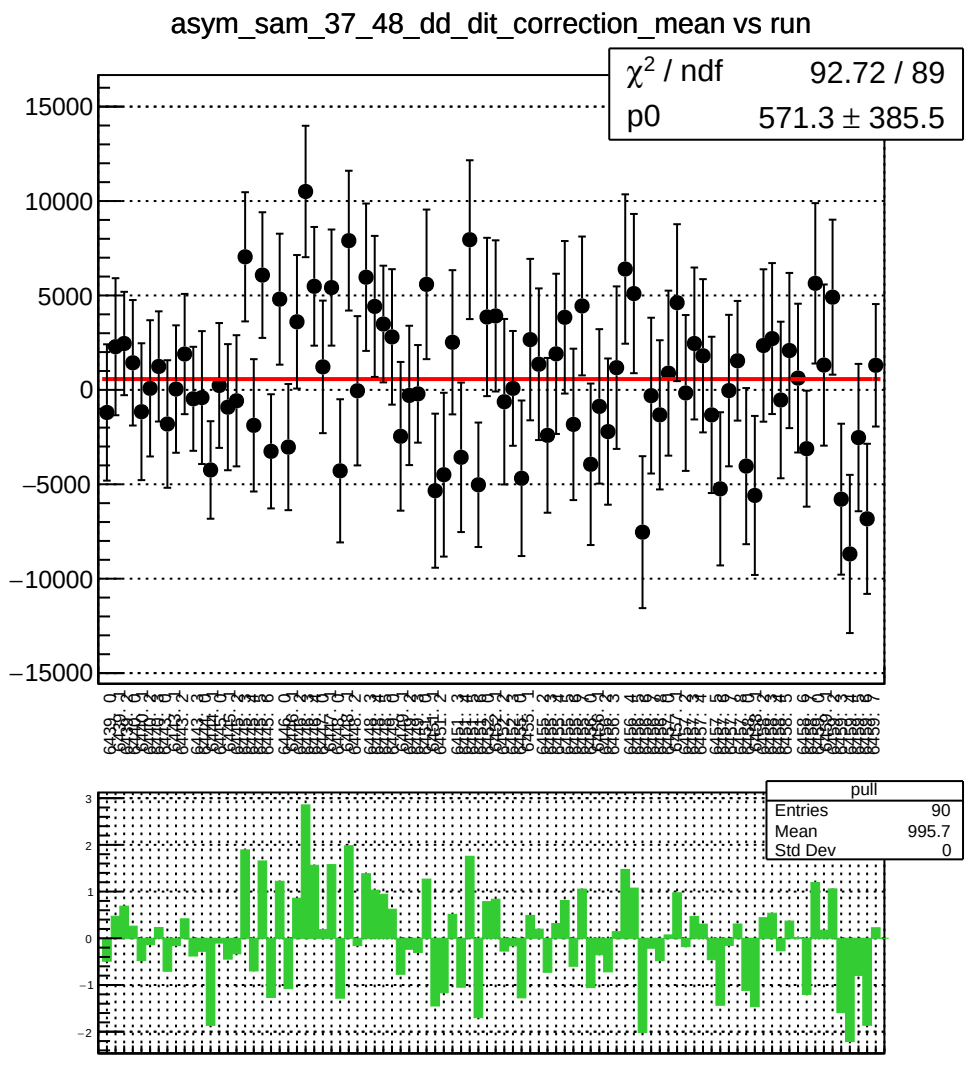
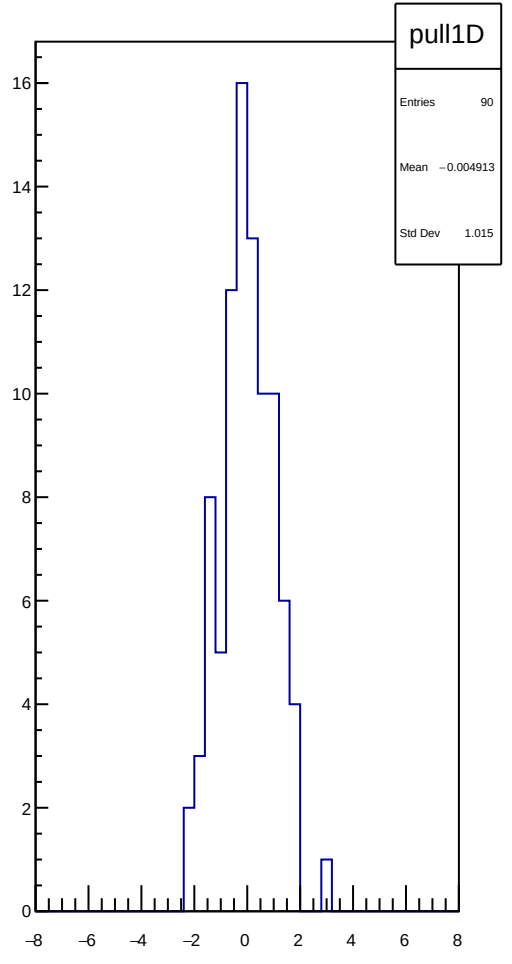

asym_sam_37_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.565e+04 / 89
p0 346.2 ± 0.2605
460
440
420
400
380
360
340
320
300
280
260

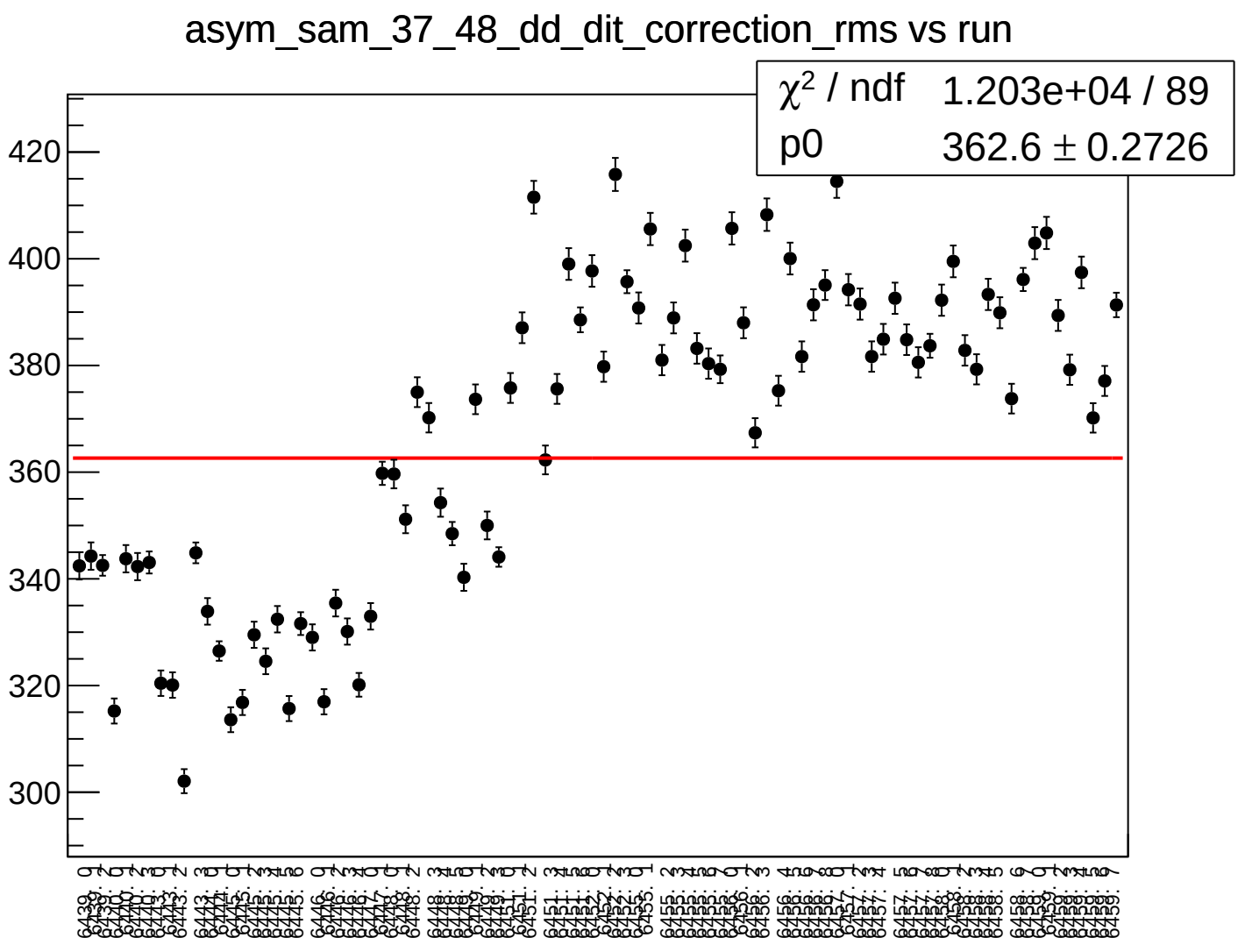

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 94.35 / 89
p0 34.84 ± 63.03
2000
1000
0
−1000
−2000
pull
Entries 90
Mean 296.3
Std Dev 0
3
2
1
0
−1
−2

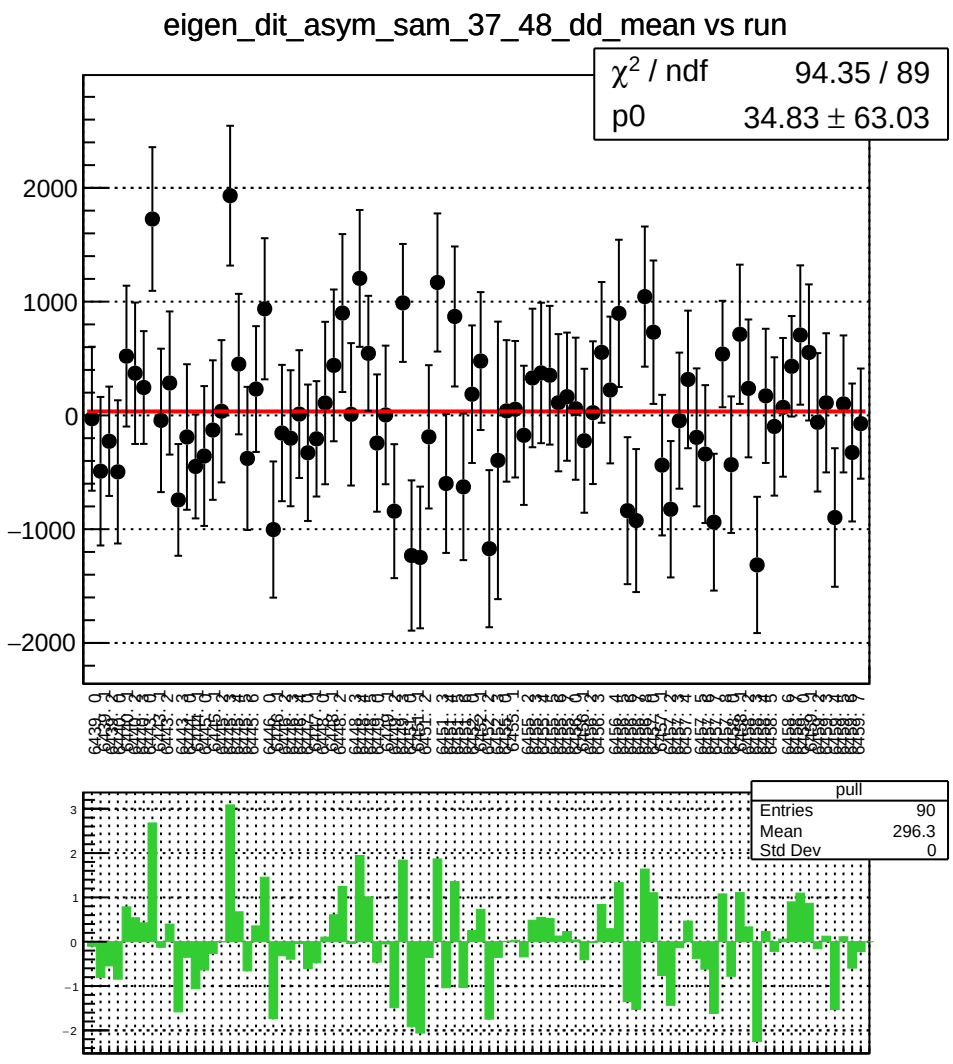

pull1D
Entries 90
Mean −0.0054
Std Dev 1.024
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

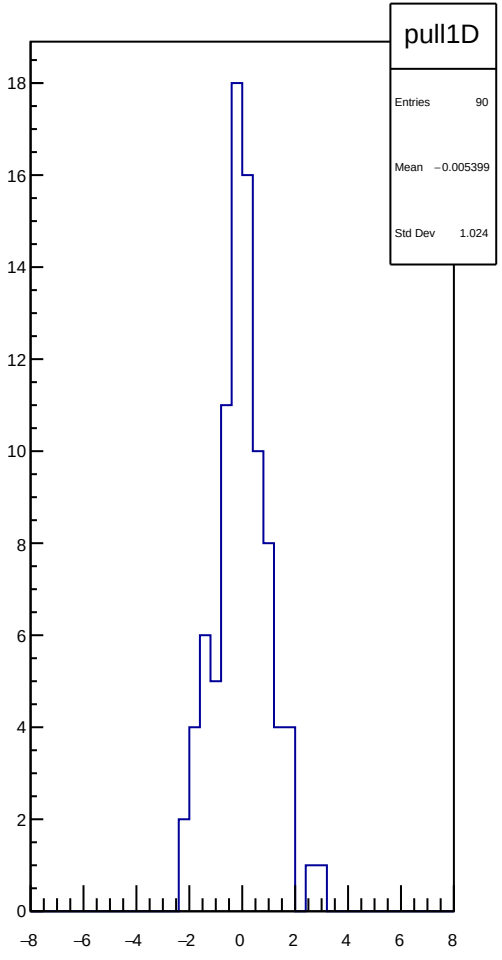

dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 1.742e+04 / 89
p0 59.21 ± 0.04457
160
140
120
100
80
60

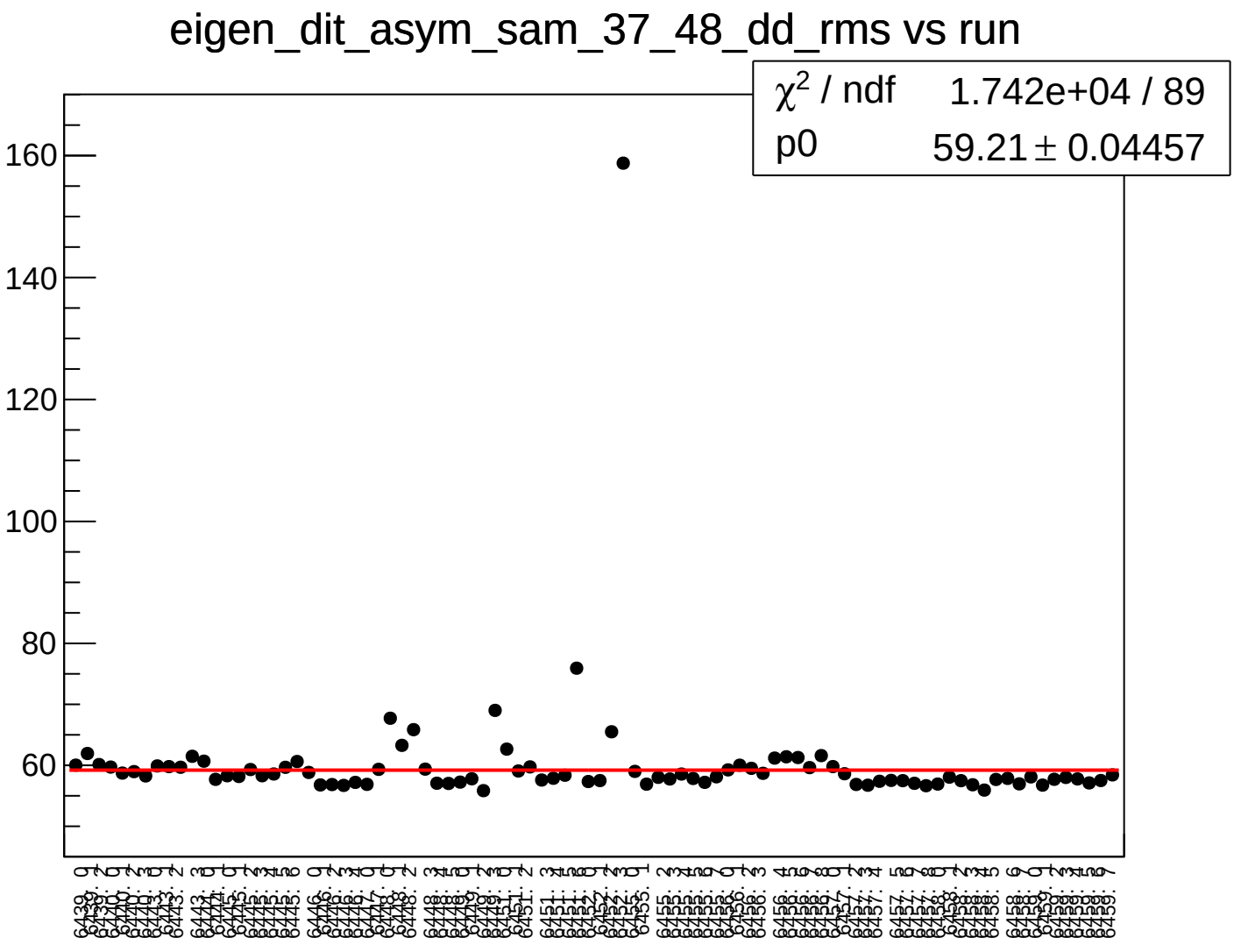

asym_sam_37_48_dd_dit_correction_mean vs run
χ² / ndf 92.72 / 89
p0 571.3 ± 385.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 90
Mean 995.7
Std Dev 0
3
2
1
0
−1
−2

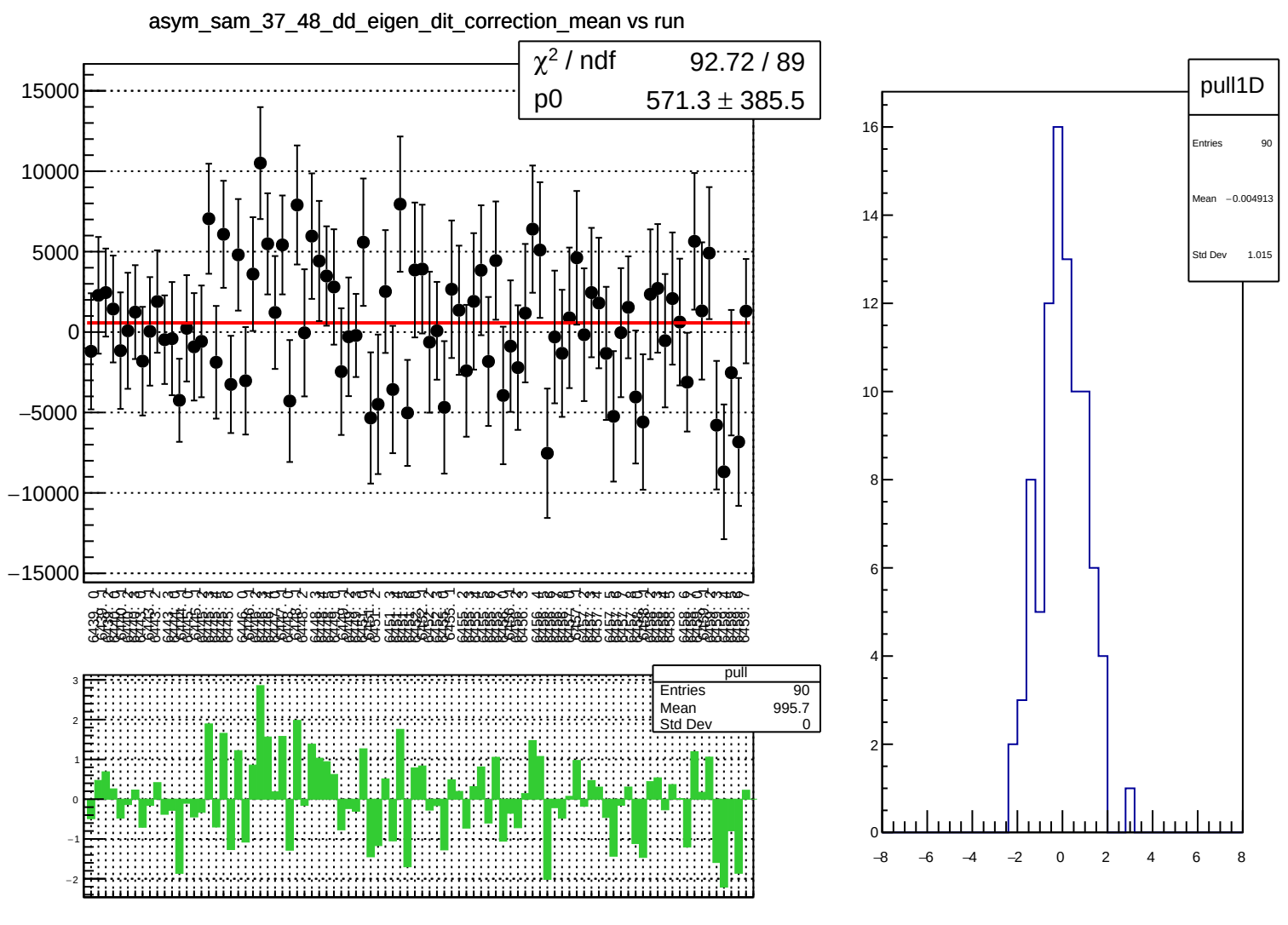

pull1D
Entries 90
Mean −0.004913
Std Dev 1.015
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

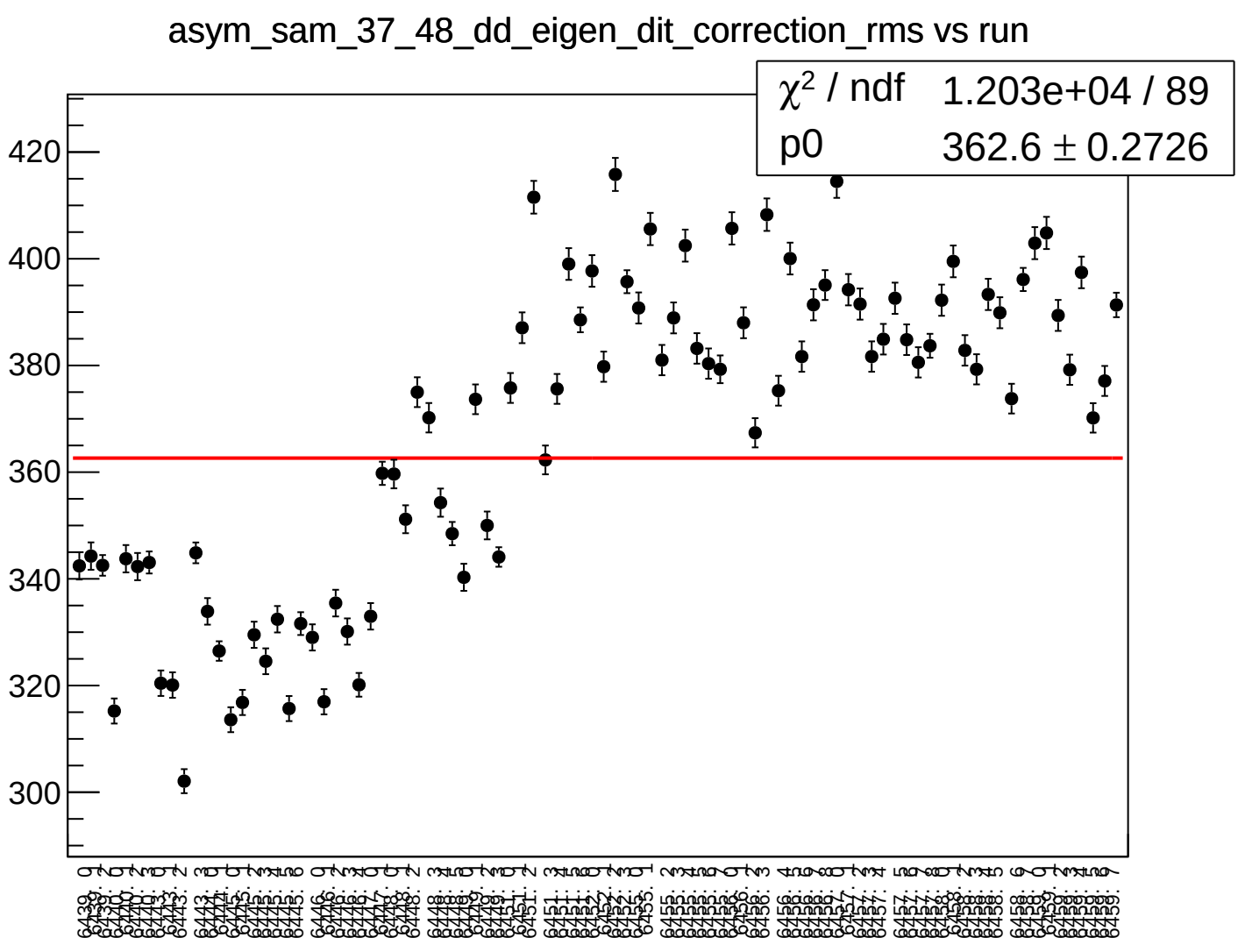

asym_sam_37_48_dd_dit_correction_rms vs run
χ² / ndf 1.203e+04 / 89
p0 362.6 ± 0.2726
420
400
380
360
340
320
300

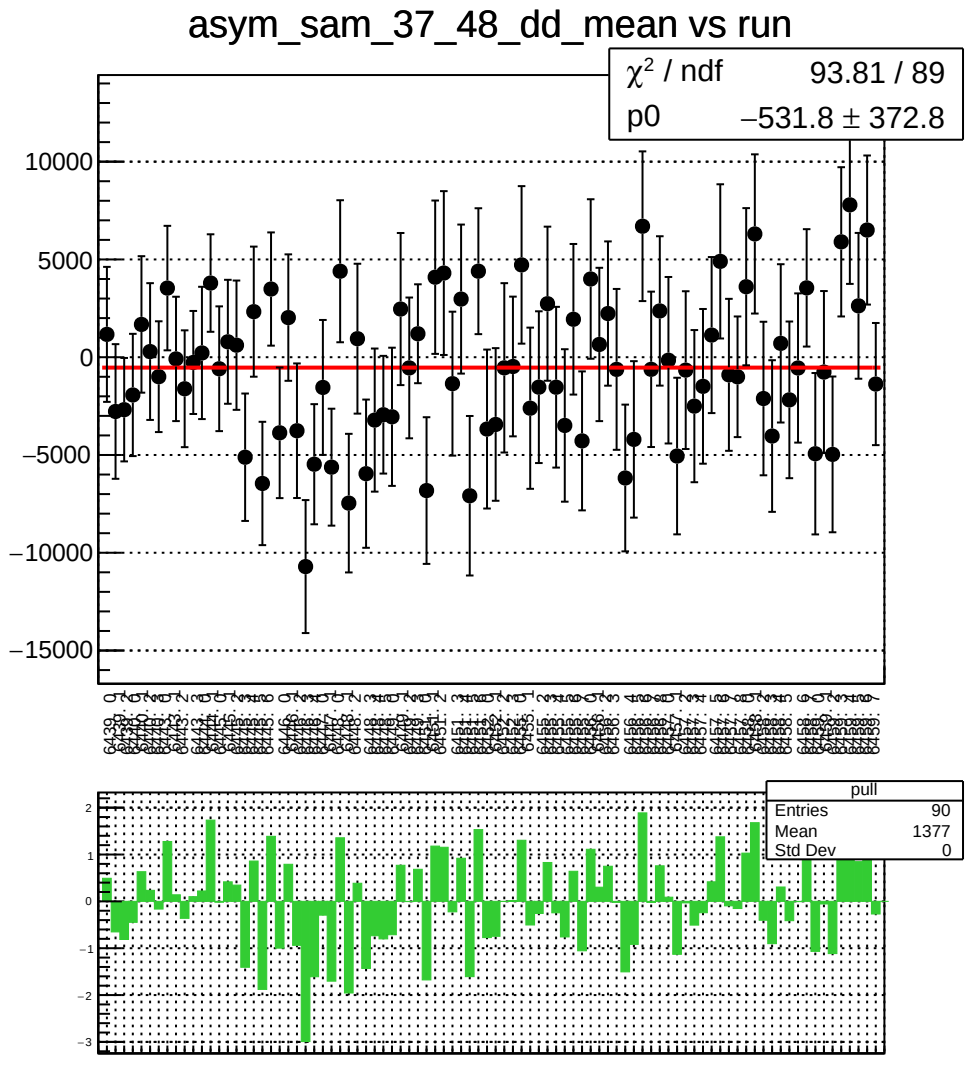

eigen_dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 94.35 / 89
p0 34.83 ± 63.03
2000
1000
0
−1000
−2000
pull
Entries 90
Mean 296.3
Std Dev 0
3
2
1
0
−1
−2

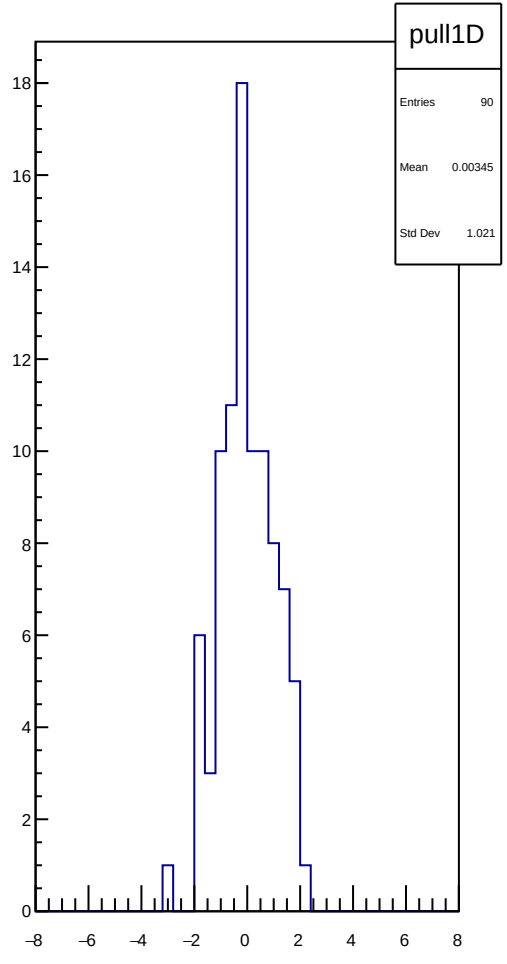

pull1D
Entries 90
Mean −0.005399
Std Dev 1.024
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

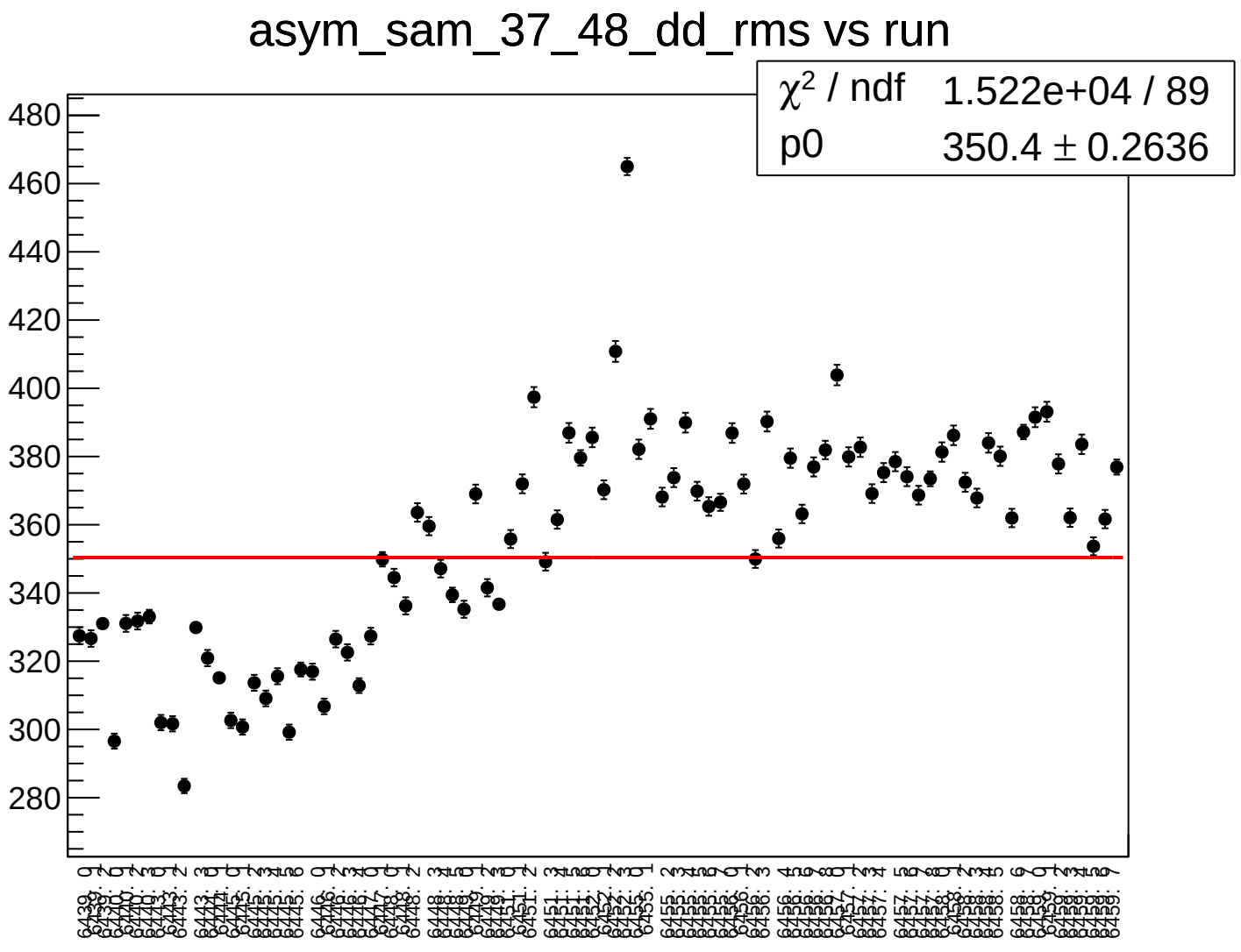

eigen_dit_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 1.742e+04 / 89
p0 59.21 ± 0.04457
160
140
120
100
80
60

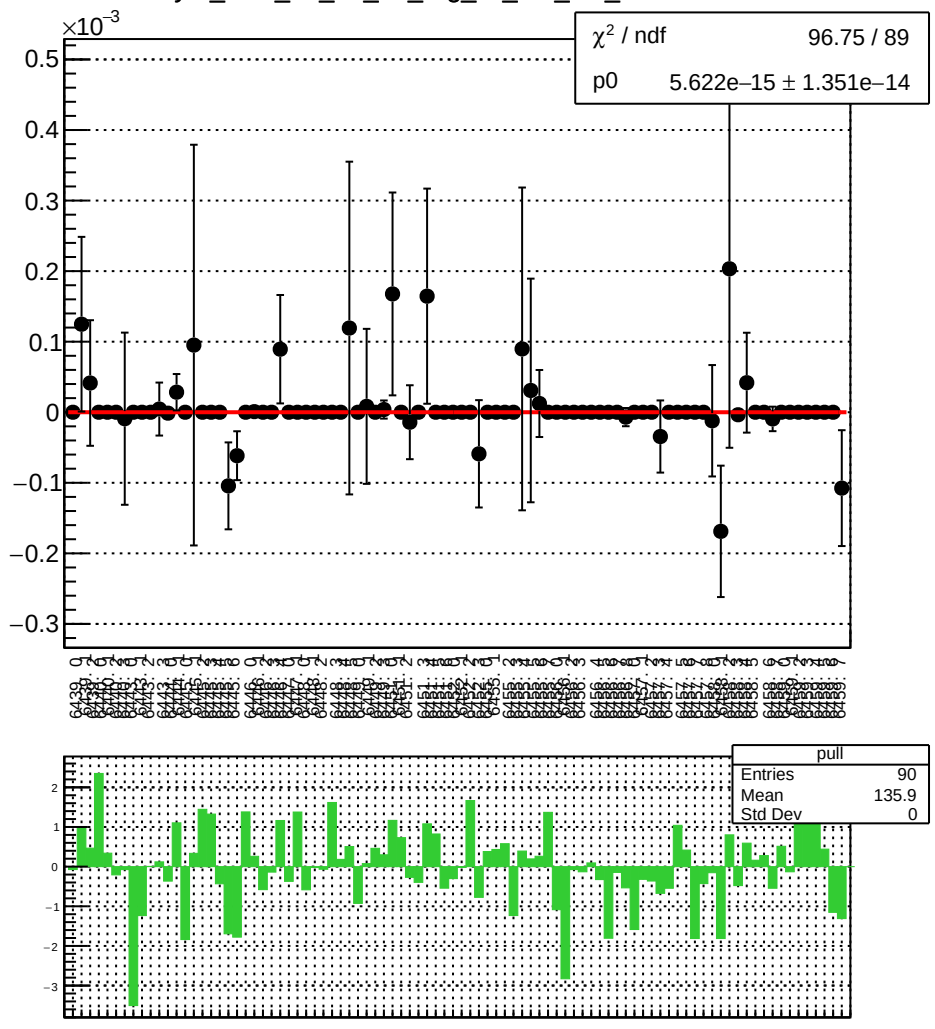

asym_sam_37_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 92.72 / 89
p0 571.3 ± 385.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 90
Mean 995.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.004913
Std Dev 1.015
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

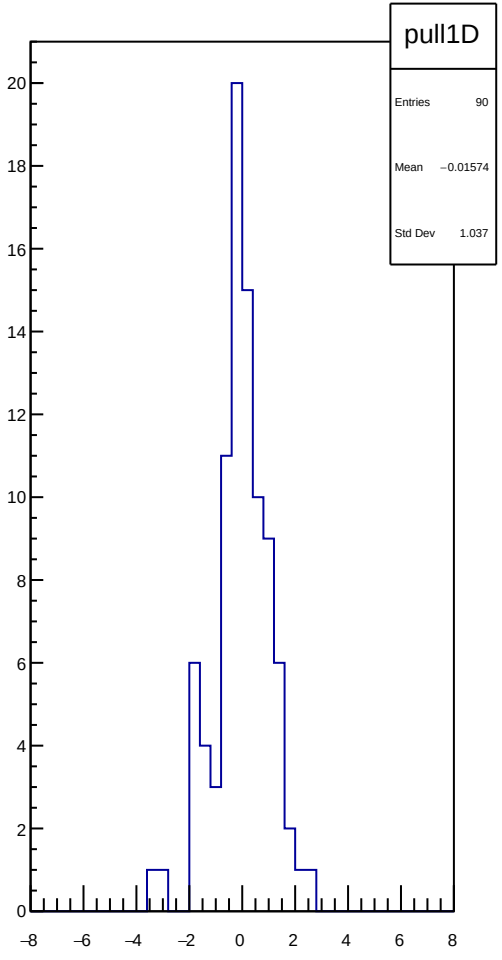

asym_sam_37_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.203e+04 / 89
p0 362.6 ± 0.2726
420
400
380
360
340
320
300

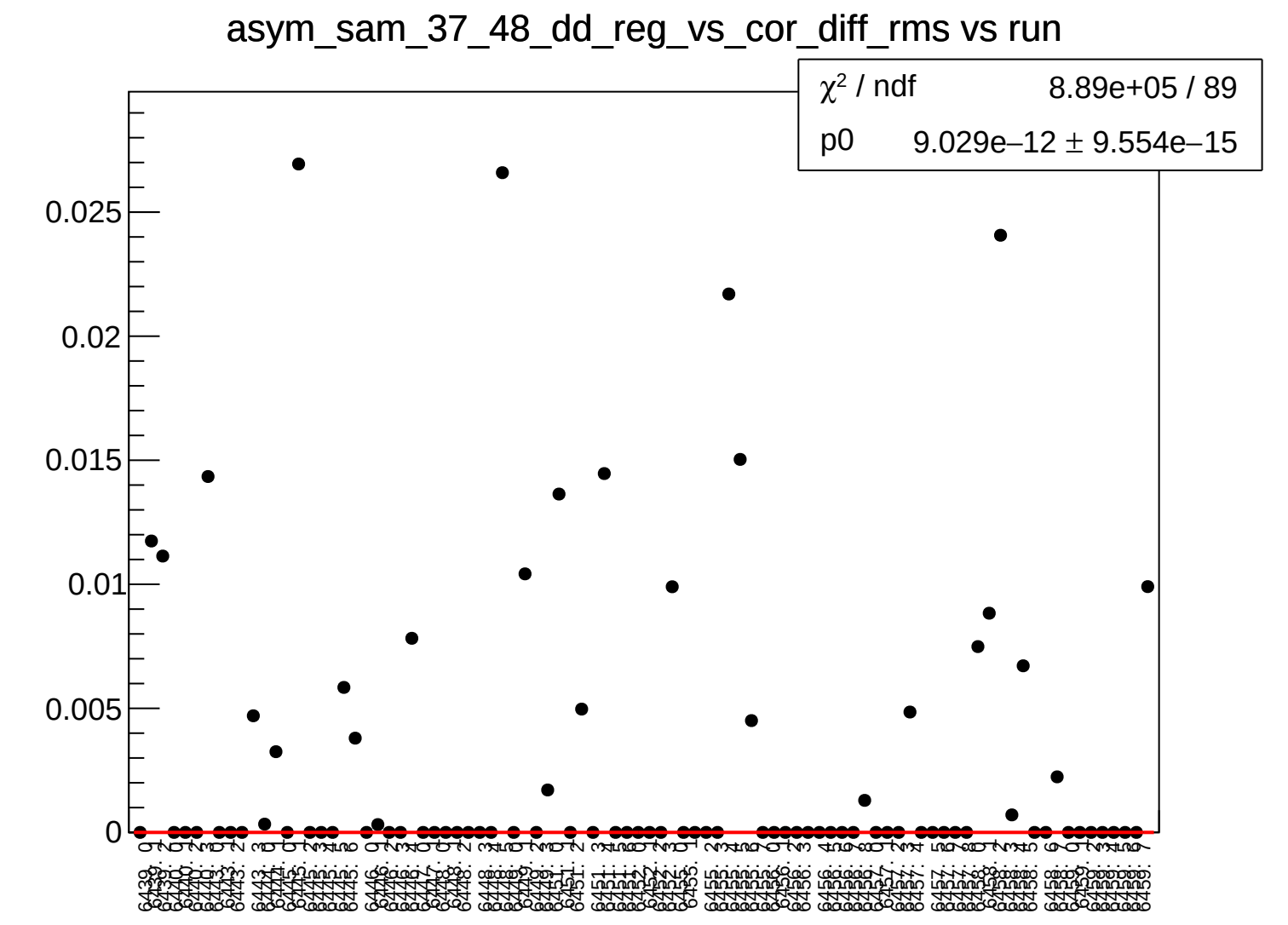

asym_sam_37_48_dd_mean vs run
χ² / ndf 93.81 / 89
p0 −531.8 ± 372.8
10000
5000
0
−5000
−10000
−15000
pull
Entries 90
Mean 1377
Std Dev 0
2
1
0
−1
−2
−3

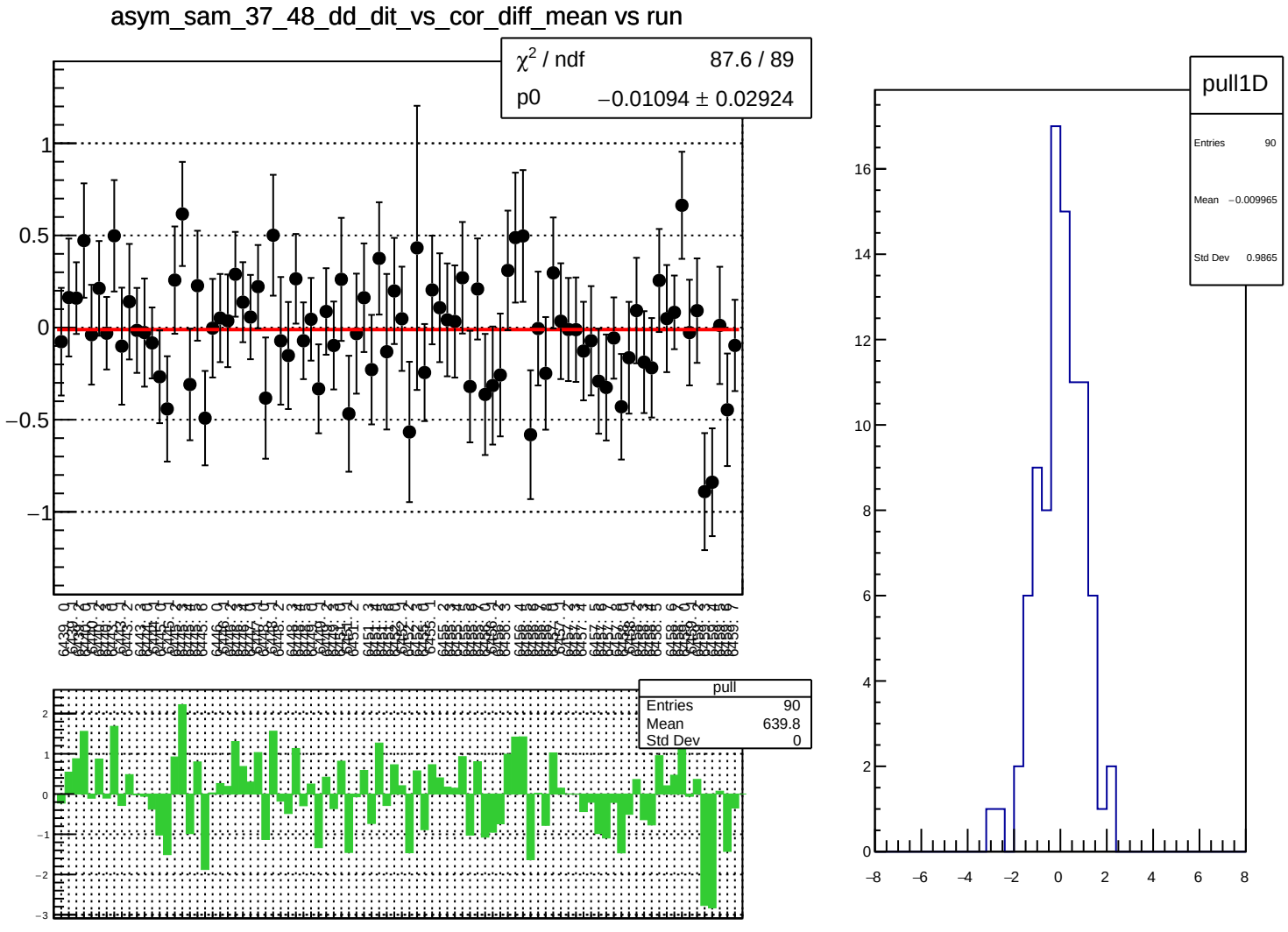

pull1D
Entries 90
Mean 0.00345
Std Dev 1.021
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

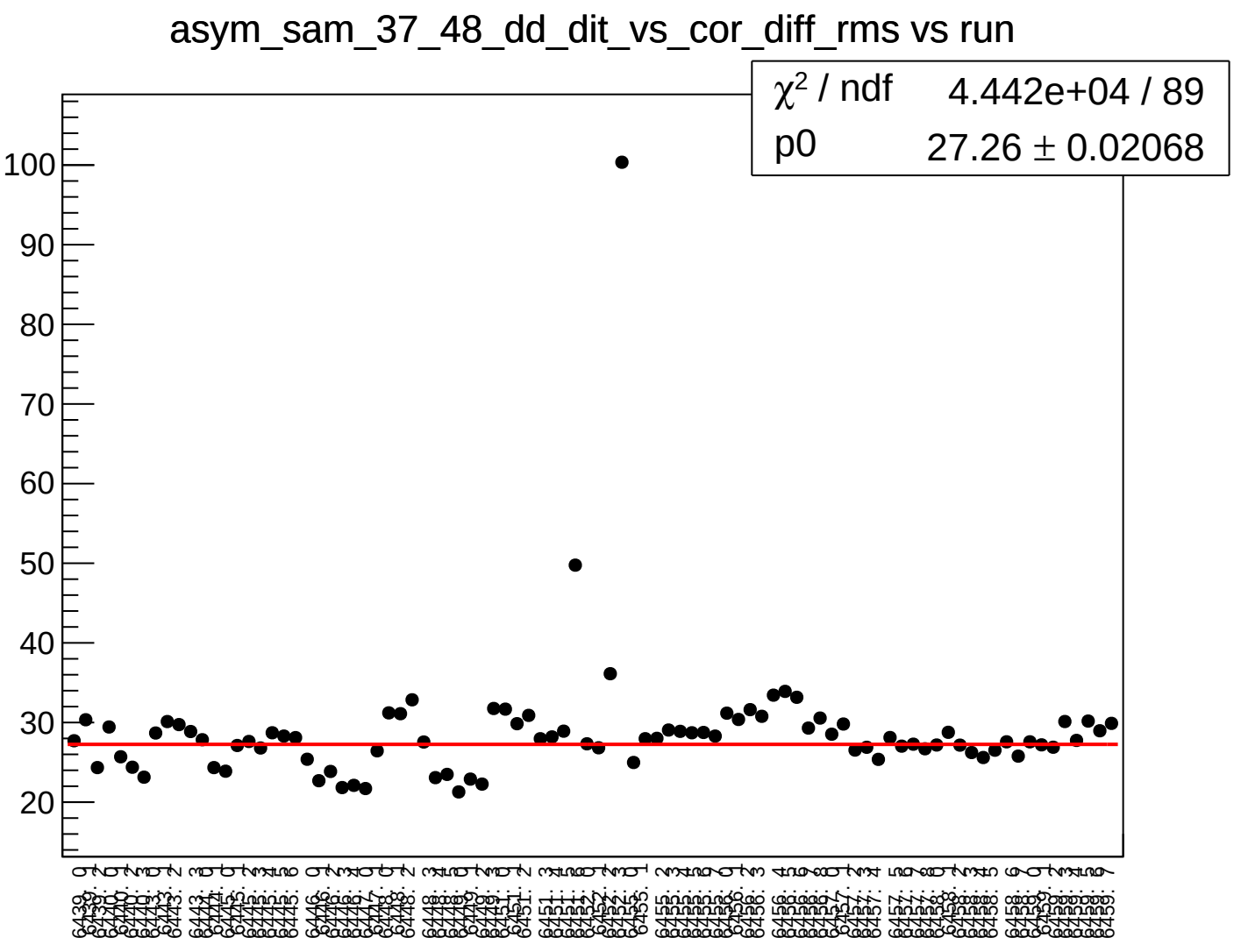

asym_sam_37_48_dd_rms vs run
χ² / ndf 1.522e+04 / 89
p0 350.4 ± 0.2636
480
460
440
420
400
380
360
340
320
300
280

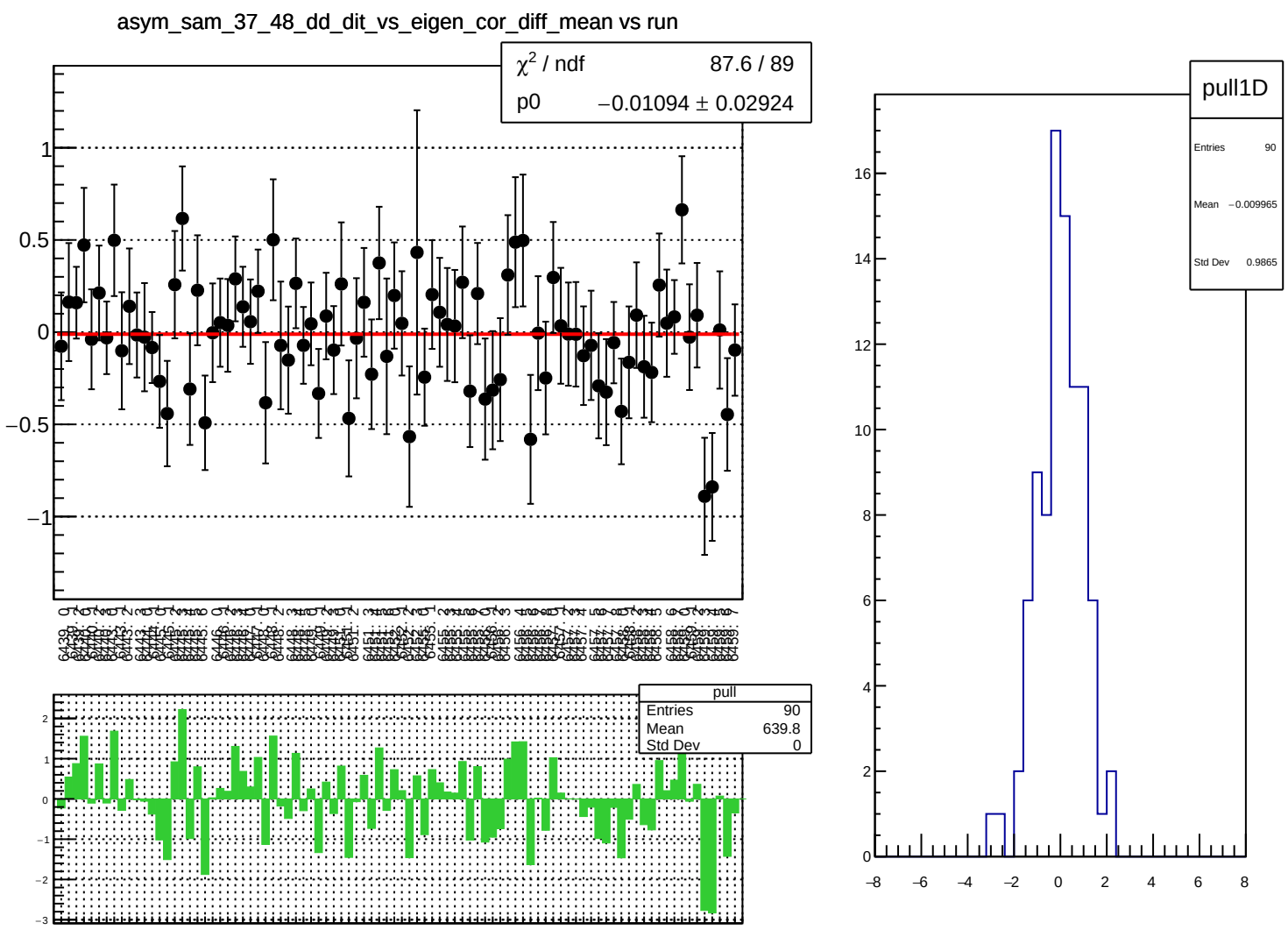

asym_sam_37_48_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 96.75 / 89
p0 5.622e−15 ± 1.351e−14
pull
Entries 90
Mean 135.9
Std Dev 0

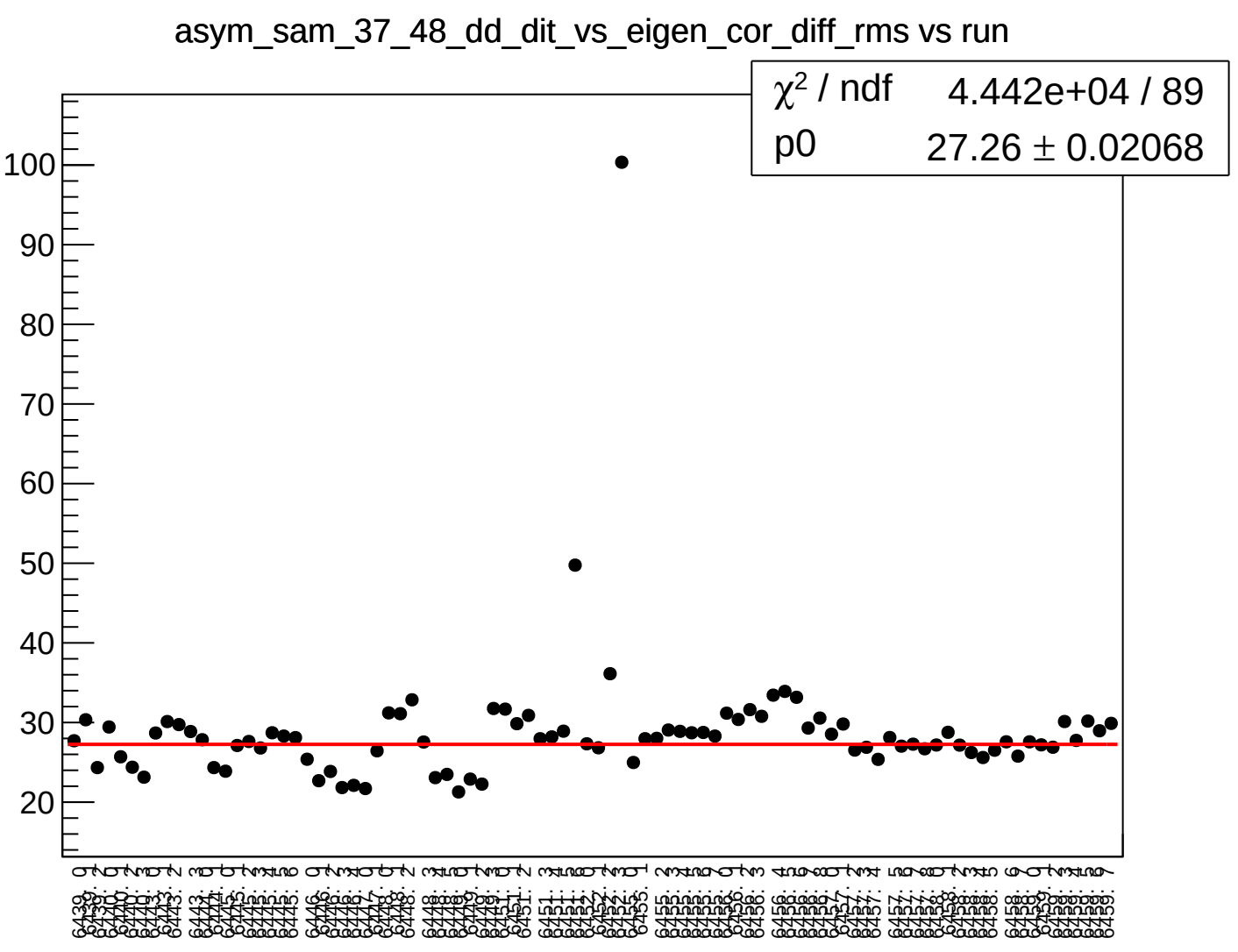

pull1D
Entries 90
Mean −0.01574
Std Dev 1.037

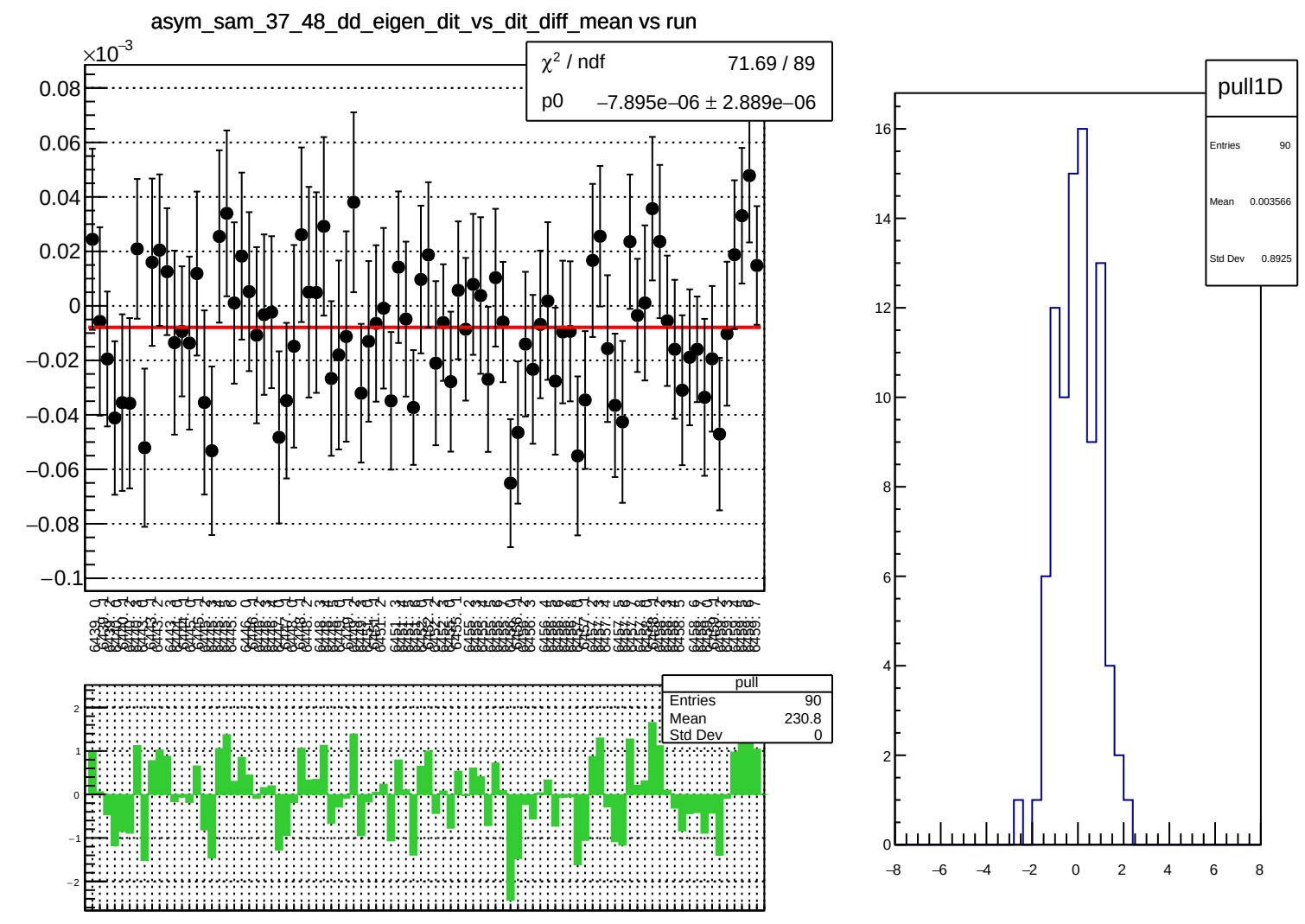

asym_sam_37_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.89e+05 / 89
p0 9.029e−12 ± 9.554e−15
0.025
0.02
0.015
0.01
0.005
0

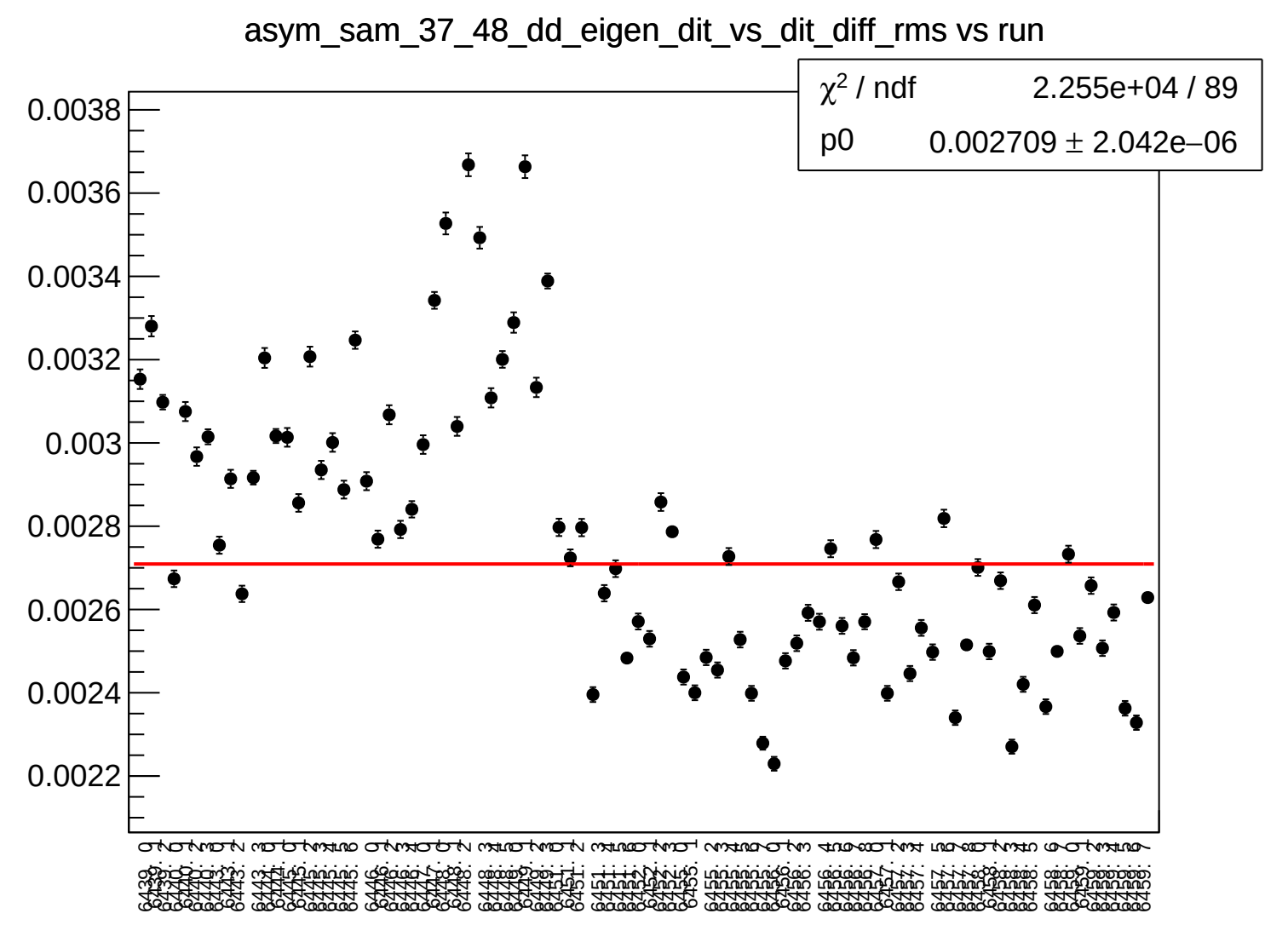

asym_sam_37_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 87.6 / 89
p0 −0.01094 ± 0.02924
pull
Entries 90
Mean 639.8
Std Dev 0
pull1D
Entries 90
Mean −0.009965
Std Dev 0.9865

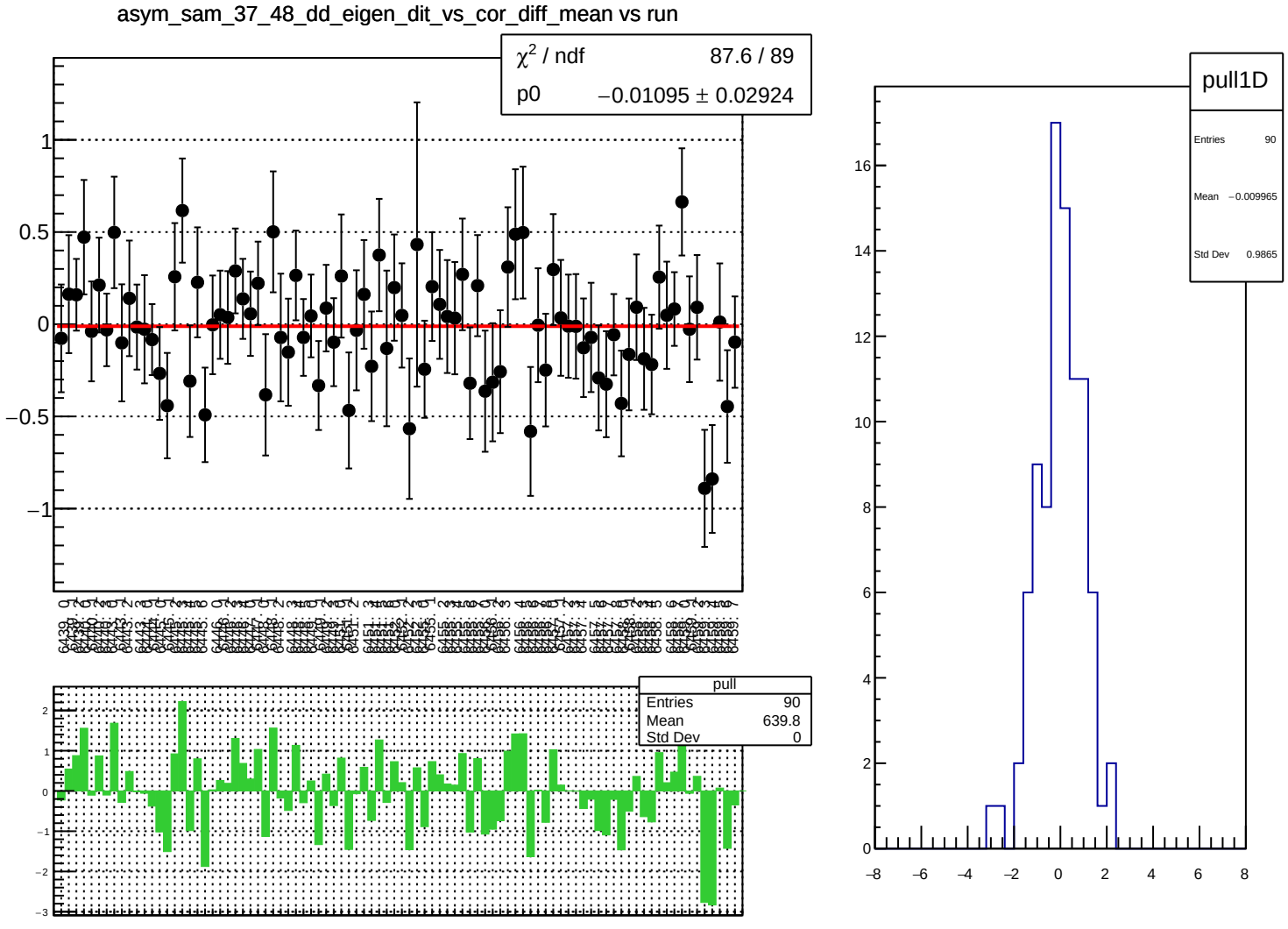

asym_sam_37_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.442e+04 / 89
p0 27.26 ± 0.02068
100
90
80
70
60
50
40
30
20

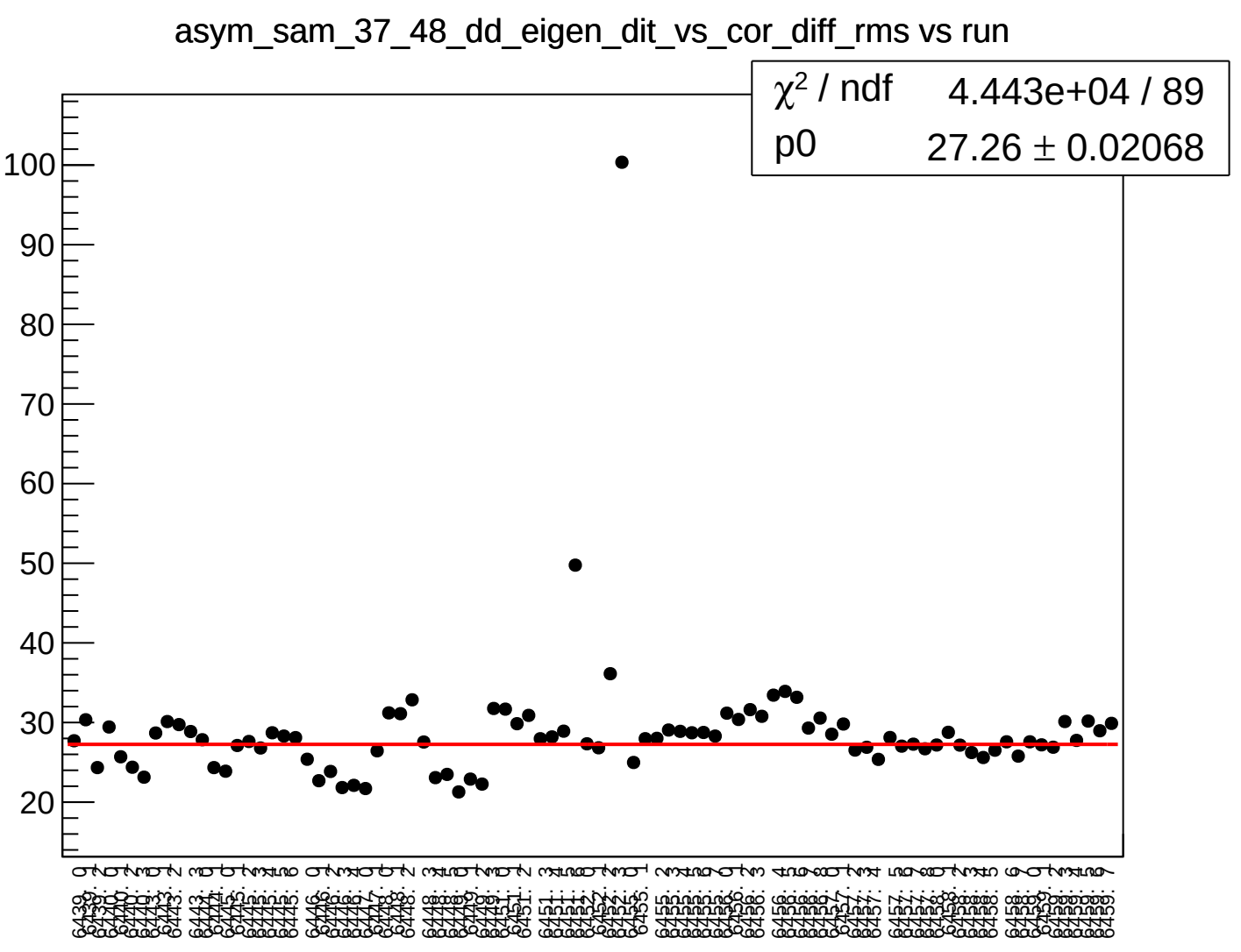

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.6 / 89
p0 −0.01094 ± 0.02924
pull
Entries 90
Mean 639.8
Std Dev 0
pull1D
Entries 90
Mean −0.009965
Std Dev 0.9865

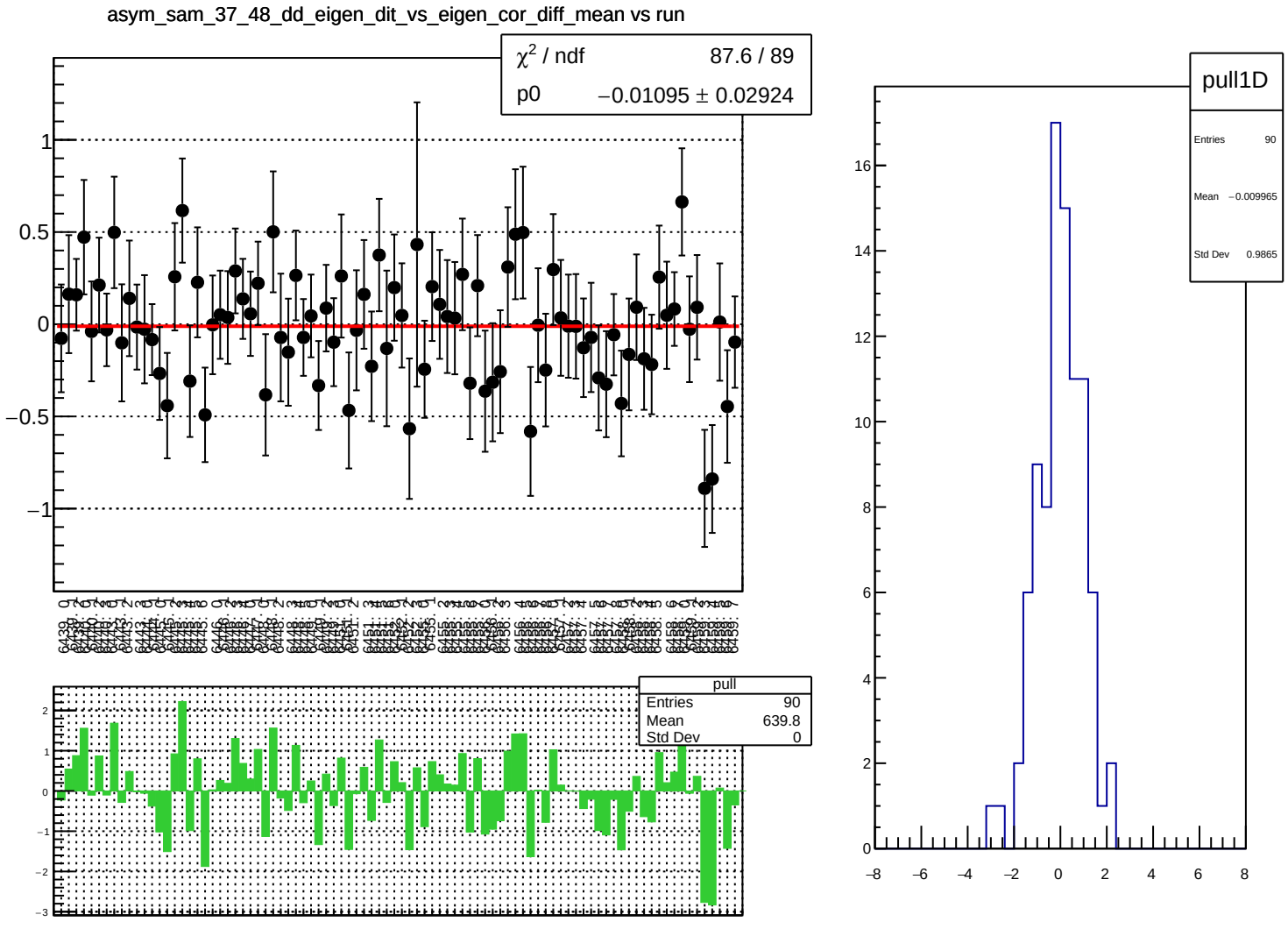

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.442e+04 / 89
p0 27.26 ± 0.02068
100
90
80
70
60
50
40
30
20

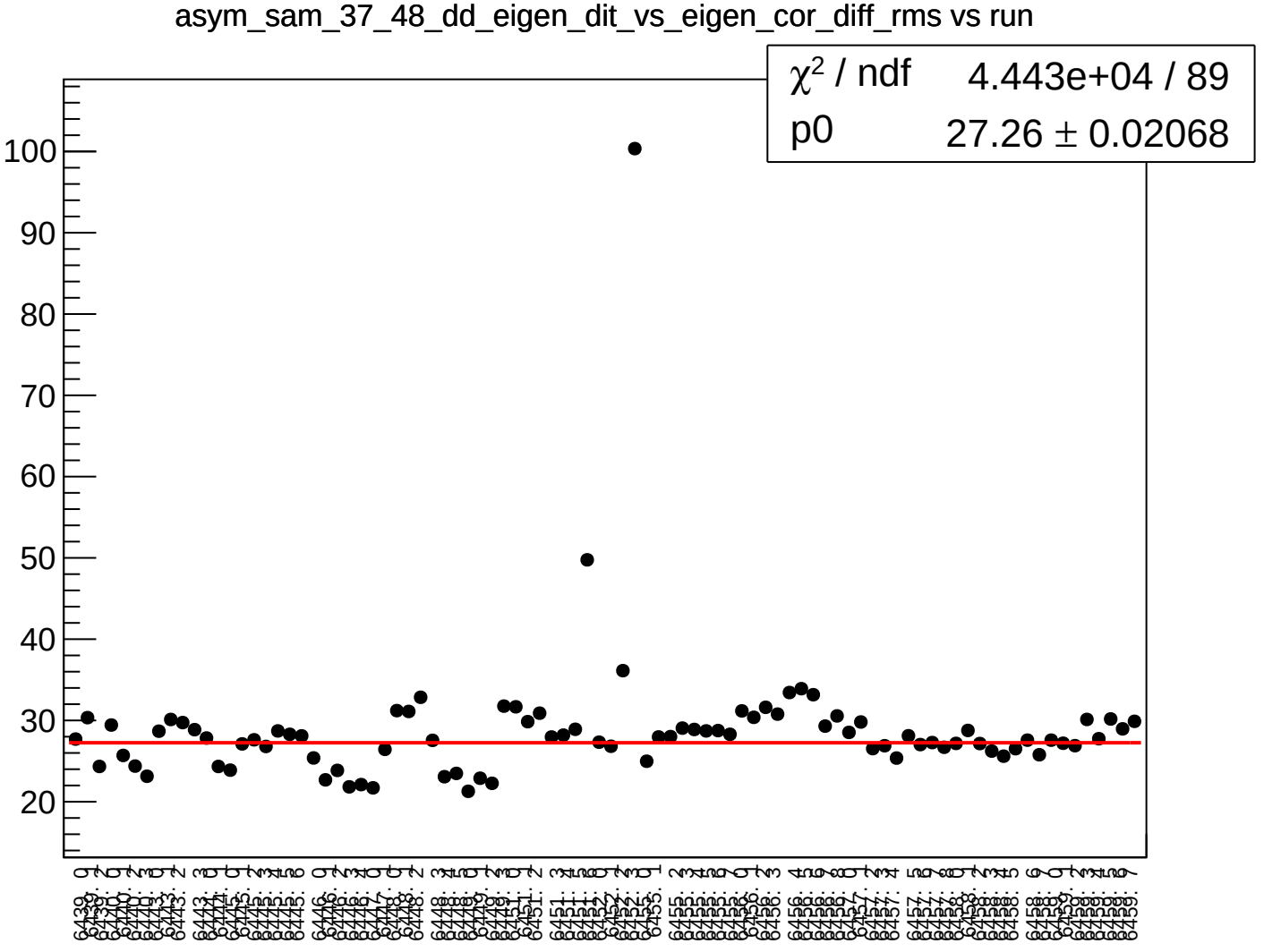

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 71.69 / 89
p0 −7.895e−06 ± 2.889e−06
pull
Entries 90
Mean 230.8
Std Dev 0
pull1D
Entries 90
Mean 0.003566
Std Dev 0.8925

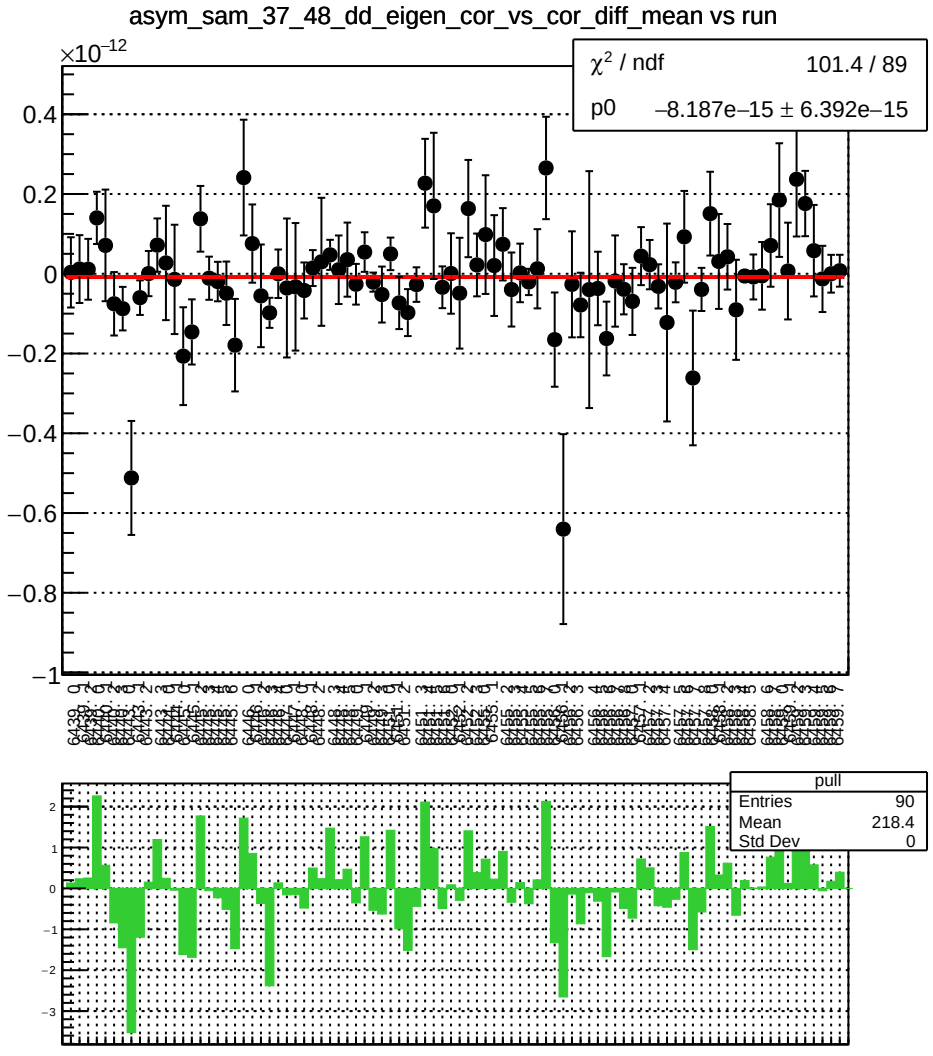

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.255e+04 / 89
p0 0.002709 ± 2.042e−06
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022

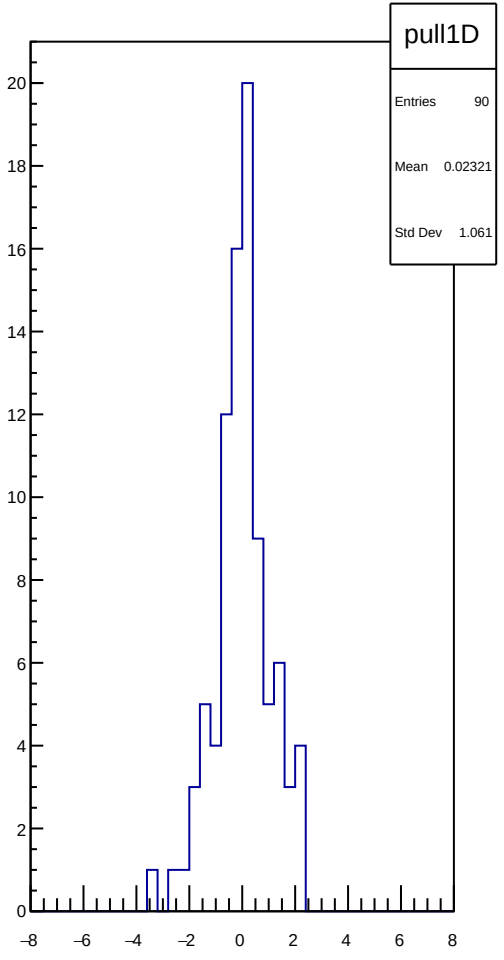

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.6 / 89
p0 −0.01095 ± 0.02924
pull
Entries 90
Mean 639.8
Std Dev 0
pull1D
Entries 90
Mean −0.009965
Std Dev 0.9865

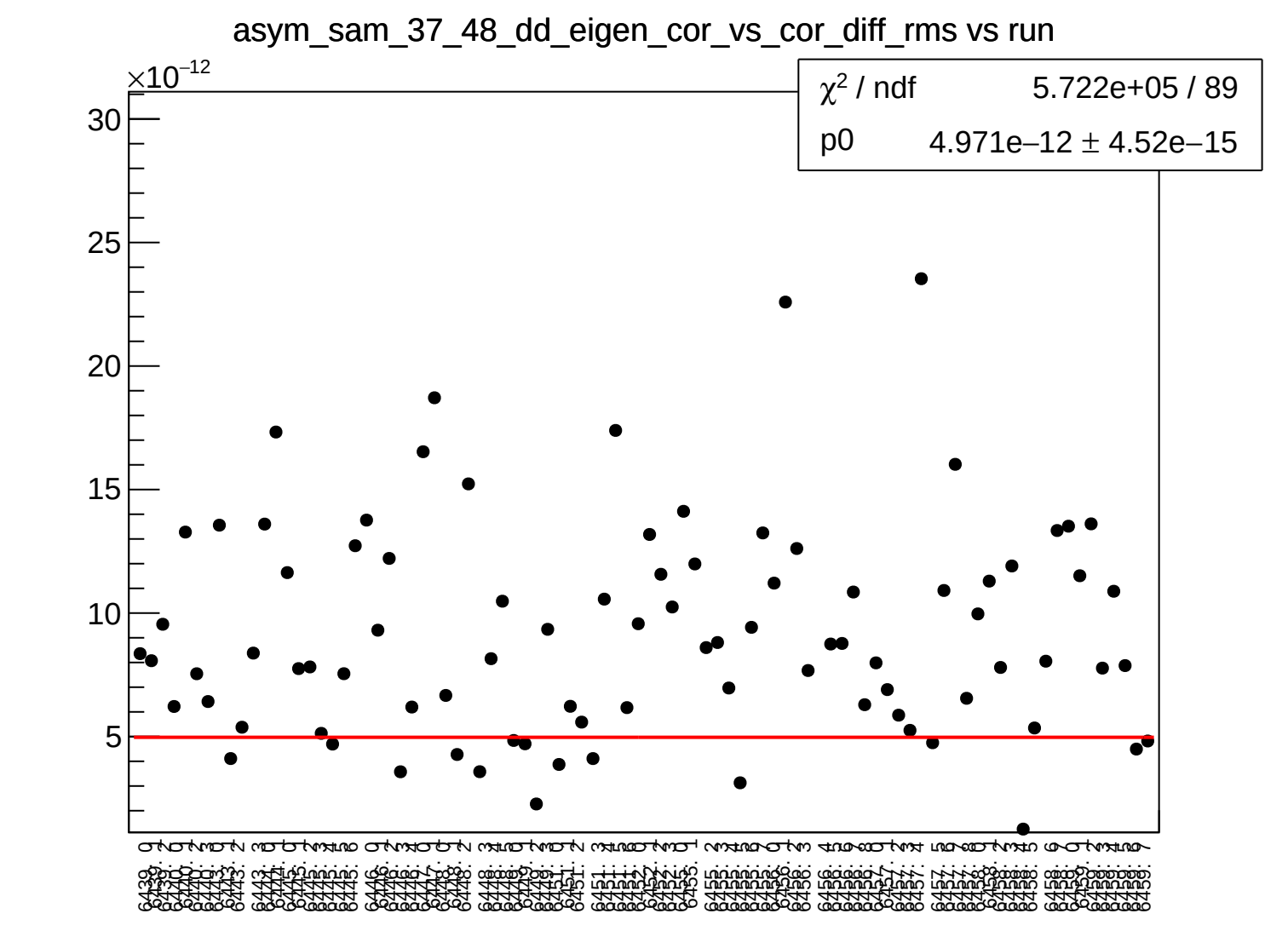

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.443e+04 / 89
p0 27.26 ± 0.02068
100
90
80
70
60
50
40
30
20

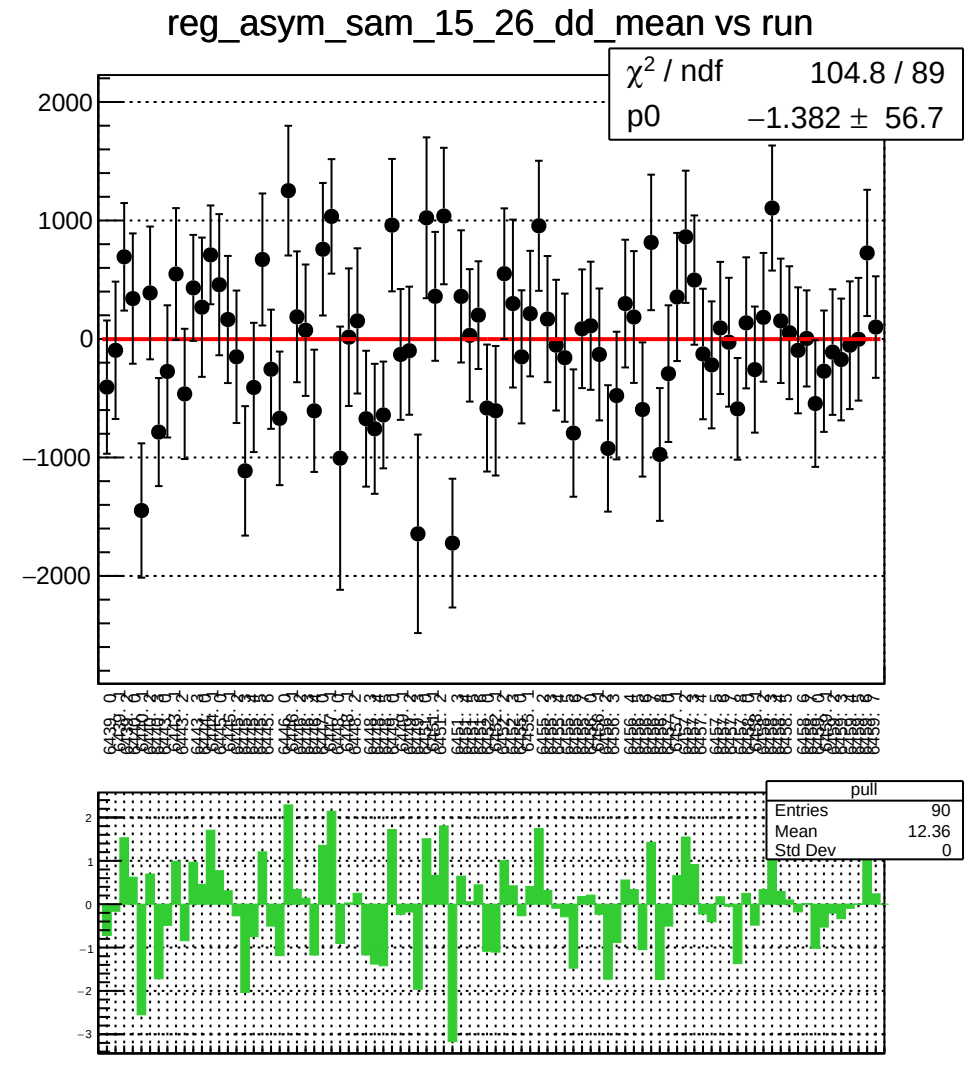

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.6 / 89
p0 −0.01095 ± 0.02924
pull
Entries 90
Mean 639.8
Std Dev 0
pull1D
Entries 90
Mean −0.009965
Std Dev 0.9865

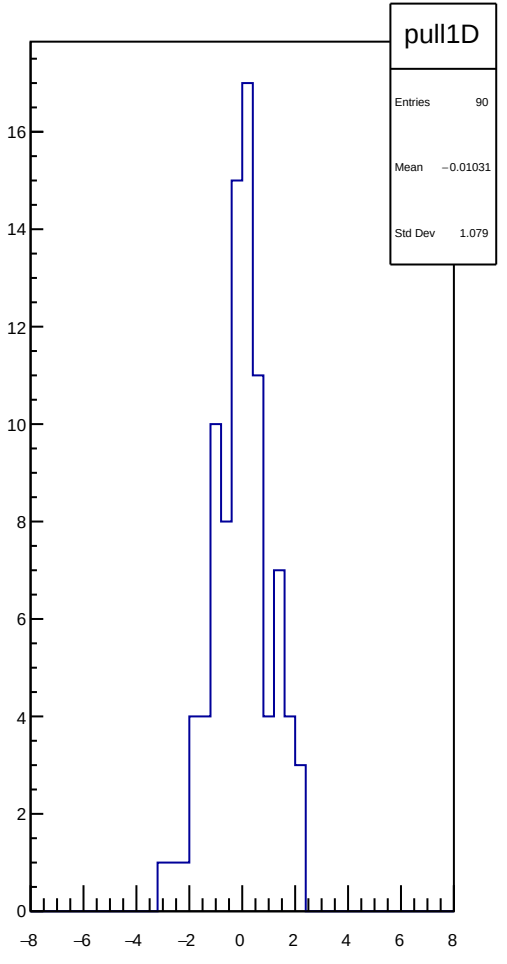

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.443e+04 / 89
p0 27.26 ± 0.02068
100
90
80
70
60
50
40
30
20

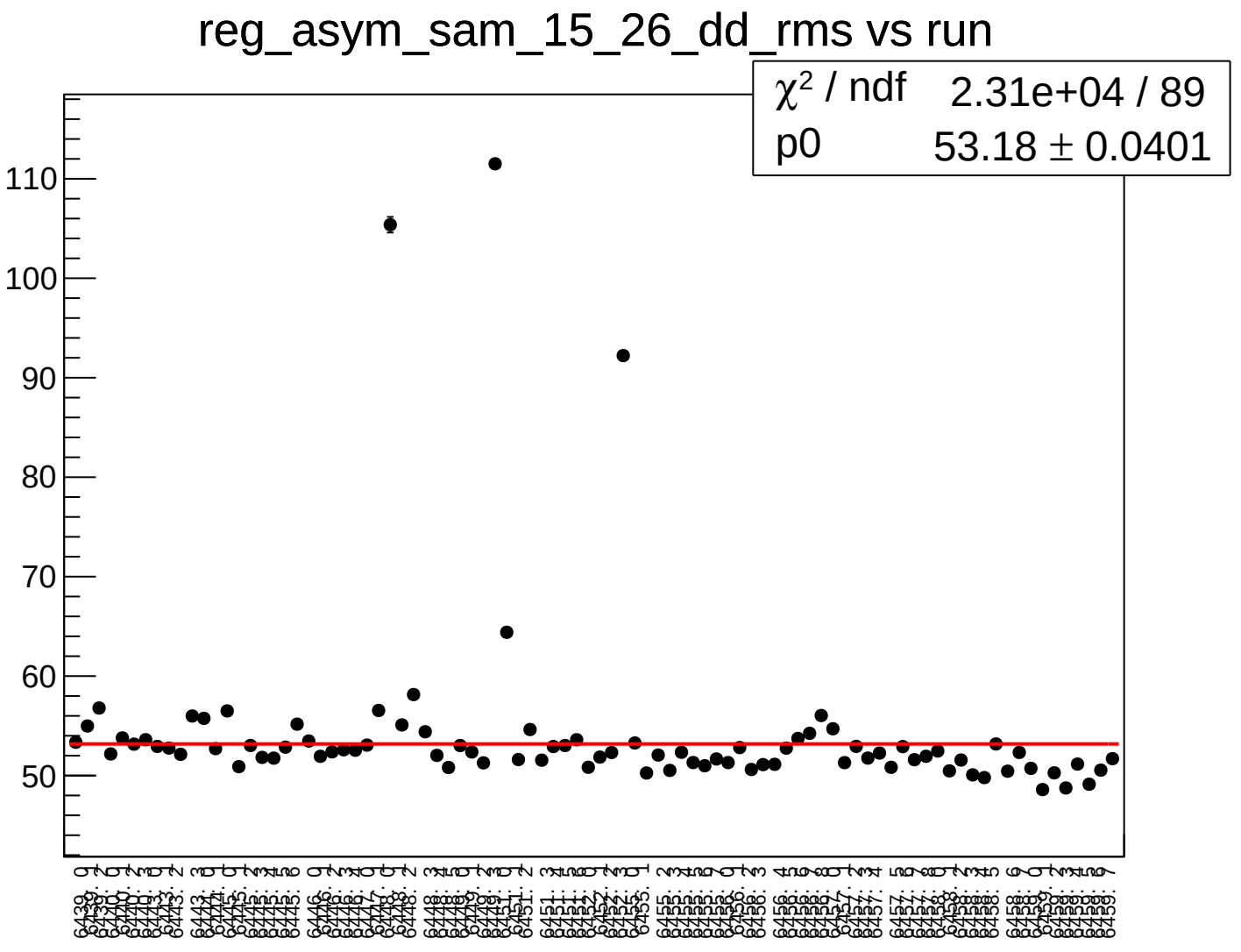

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 101.4 / 89
p0 −8.187e−15 ± 6.392e−15
pull
Entries 90
Mean 218.4
Std Dev 0

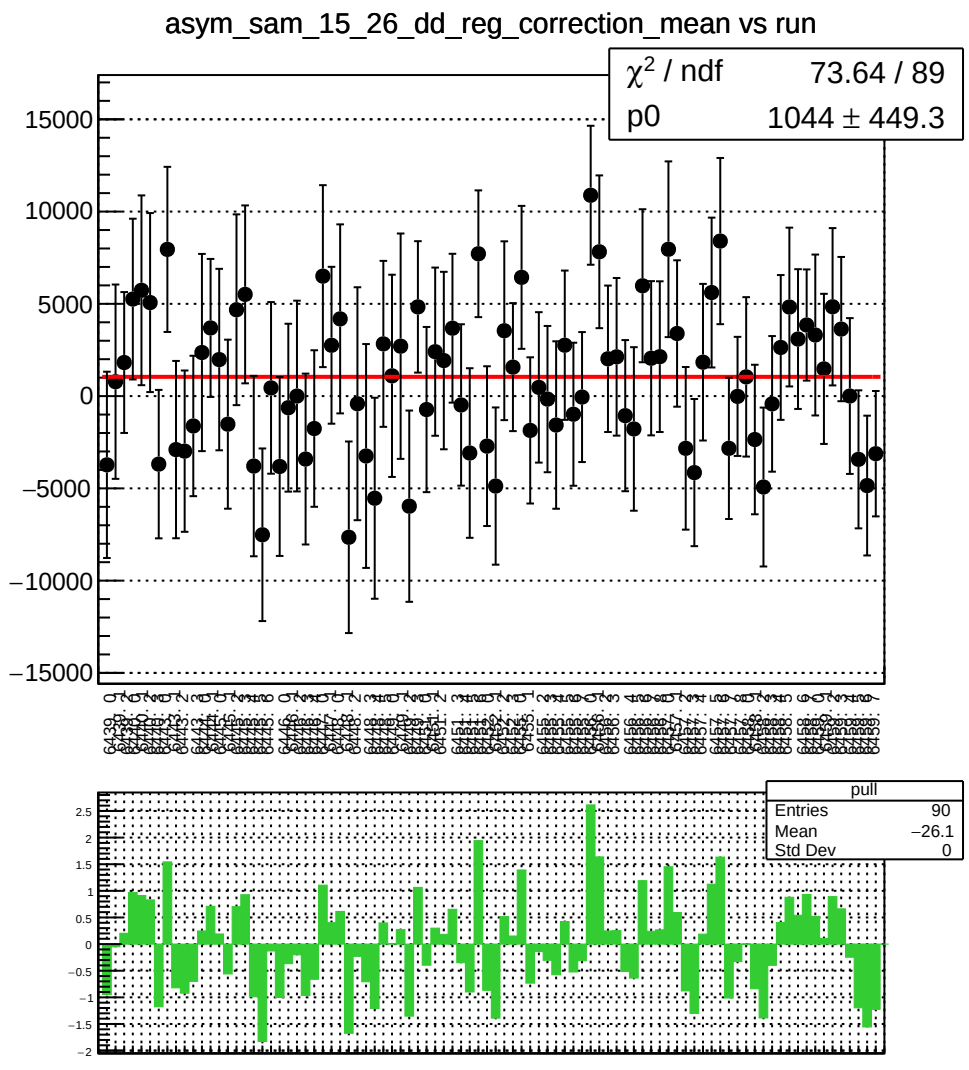

pull1D
Entries 90
Mean 0.02321
Std Dev 1.061

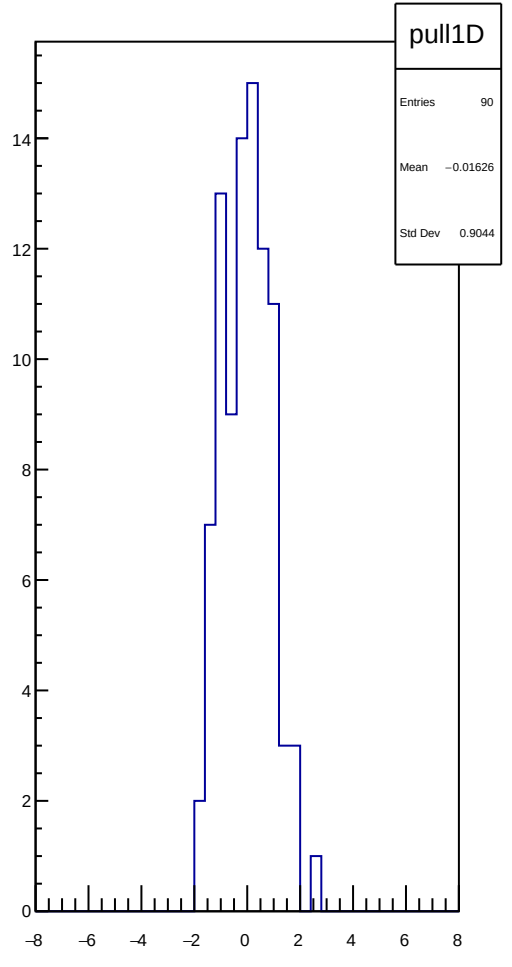

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
30
25
20
15
10
5
χ² / ndf 5.722e+05 / 89
p0 4.971e−12 ± 4.52e−15

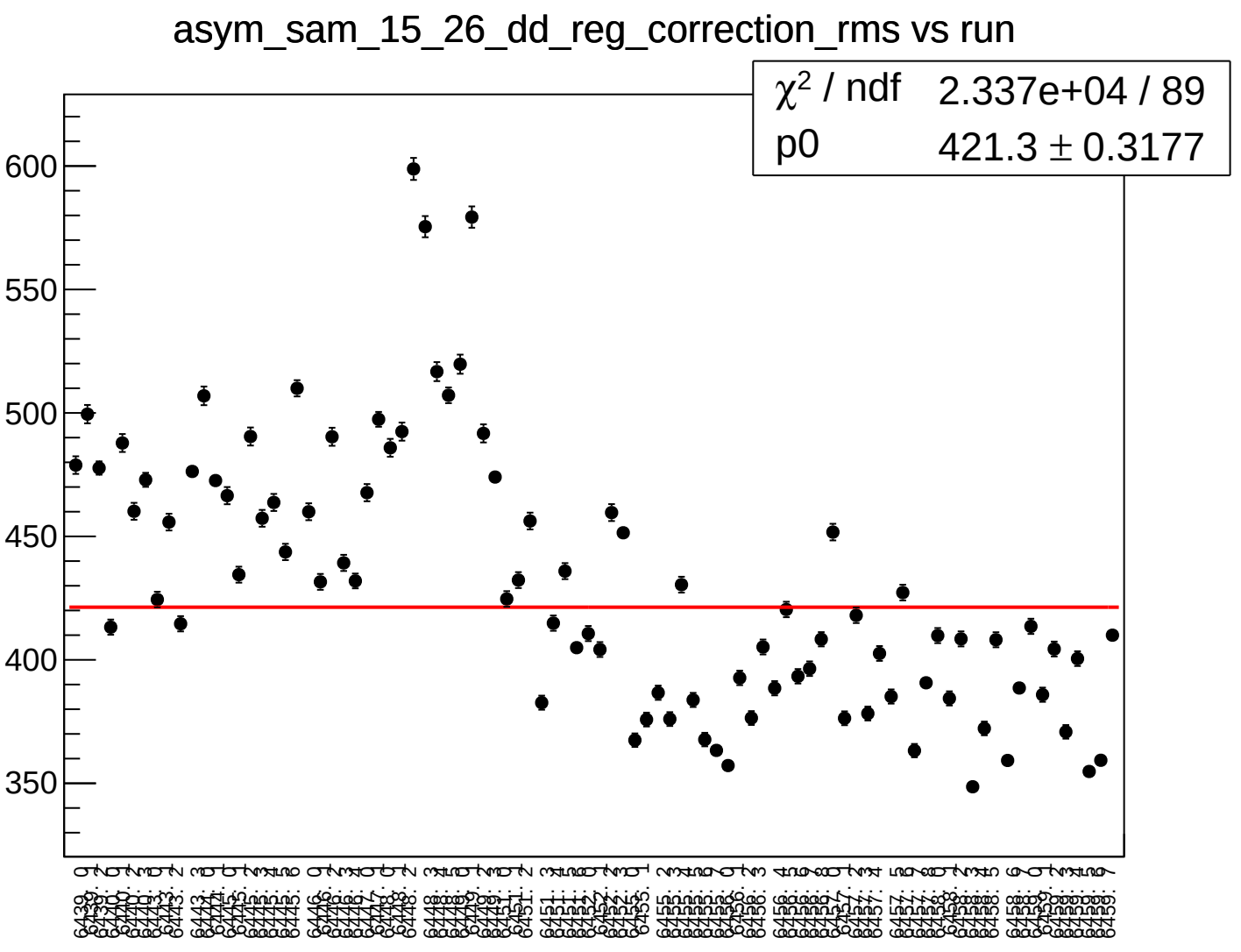

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 104.8 / 89
p0 −1.382 ± 56.7
2000
1000
0
−1000
−2000
pull
Entries 90
Mean 12.36
Std Dev 0
2
1
0
−1
−2
−3

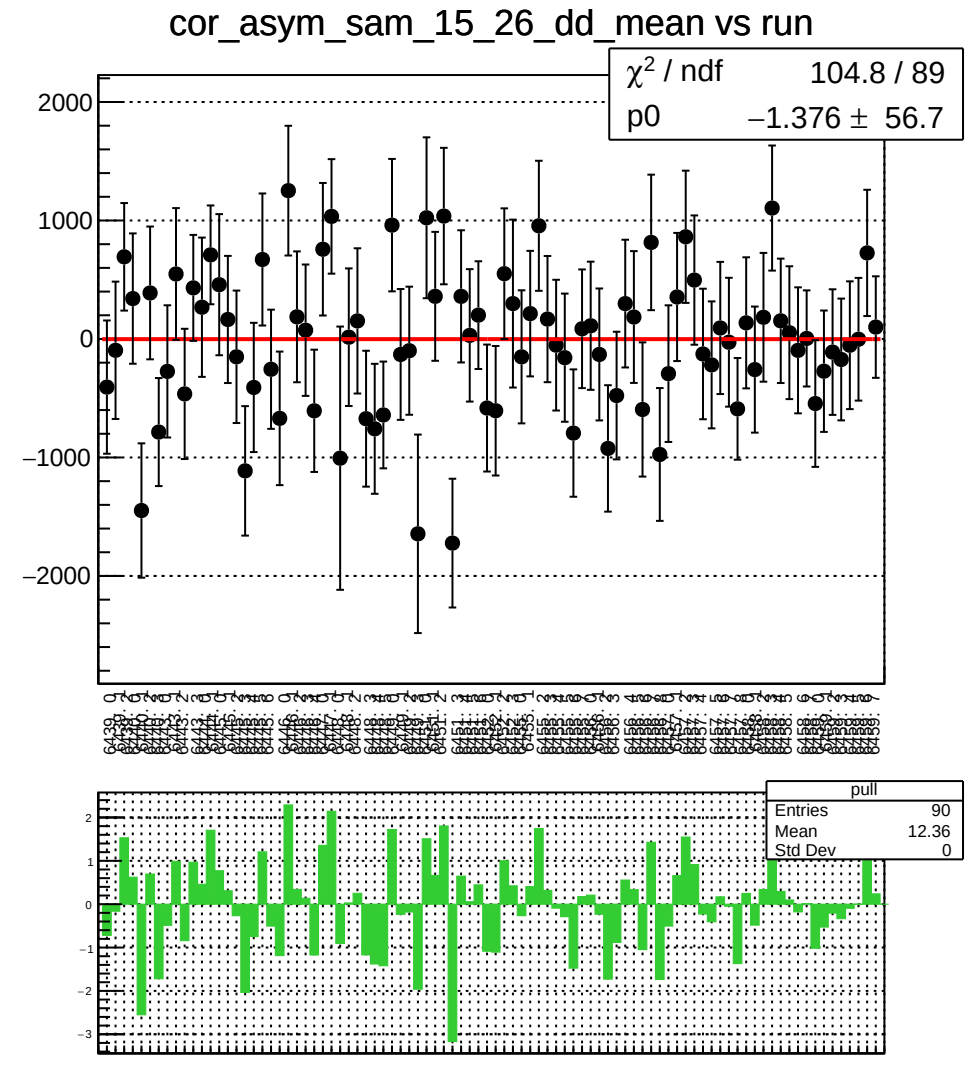

pull1D
Entries 90
Mean −0.01031
Std Dev 1.079
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

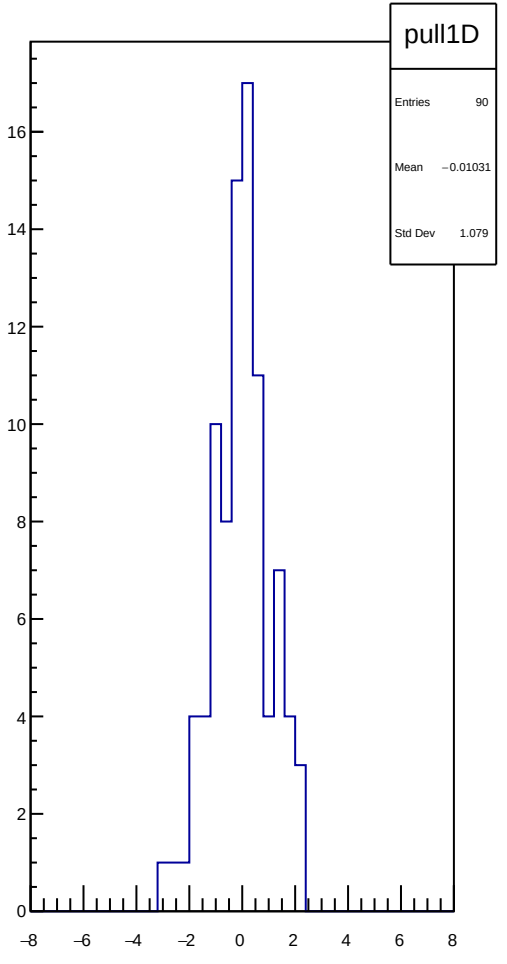

reg_asym_sam_15_26_dd_rms vs run
χ² / ndf 2.31e+04 / 89
p0 53.18 ± 0.0401
110
100
90
80
70
60
50

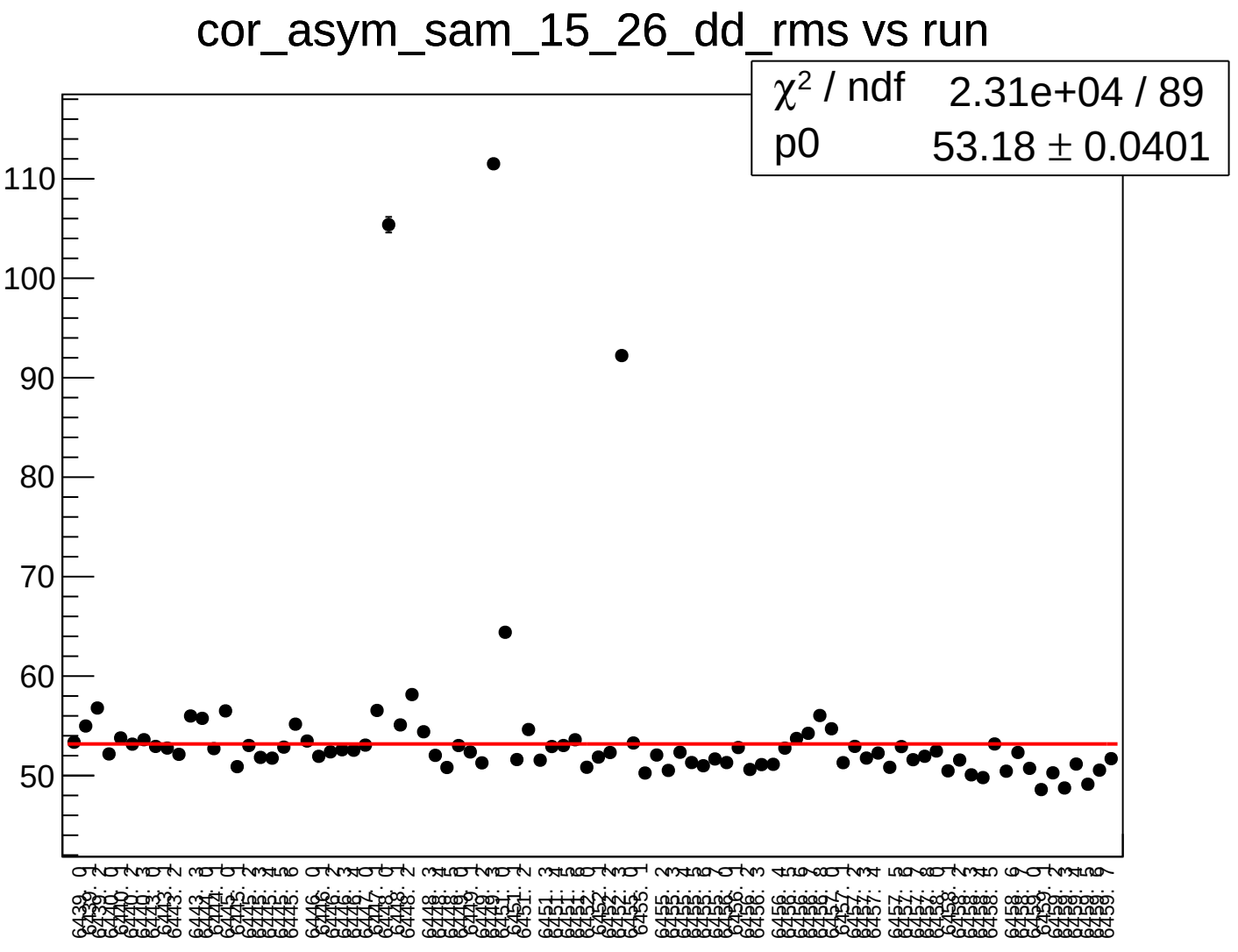

asym_sam_15_26_dd_reg_correction_mean vs run
χ² / ndf 73.64 / 89
p0 1044 ± 449.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 90
Mean −26.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

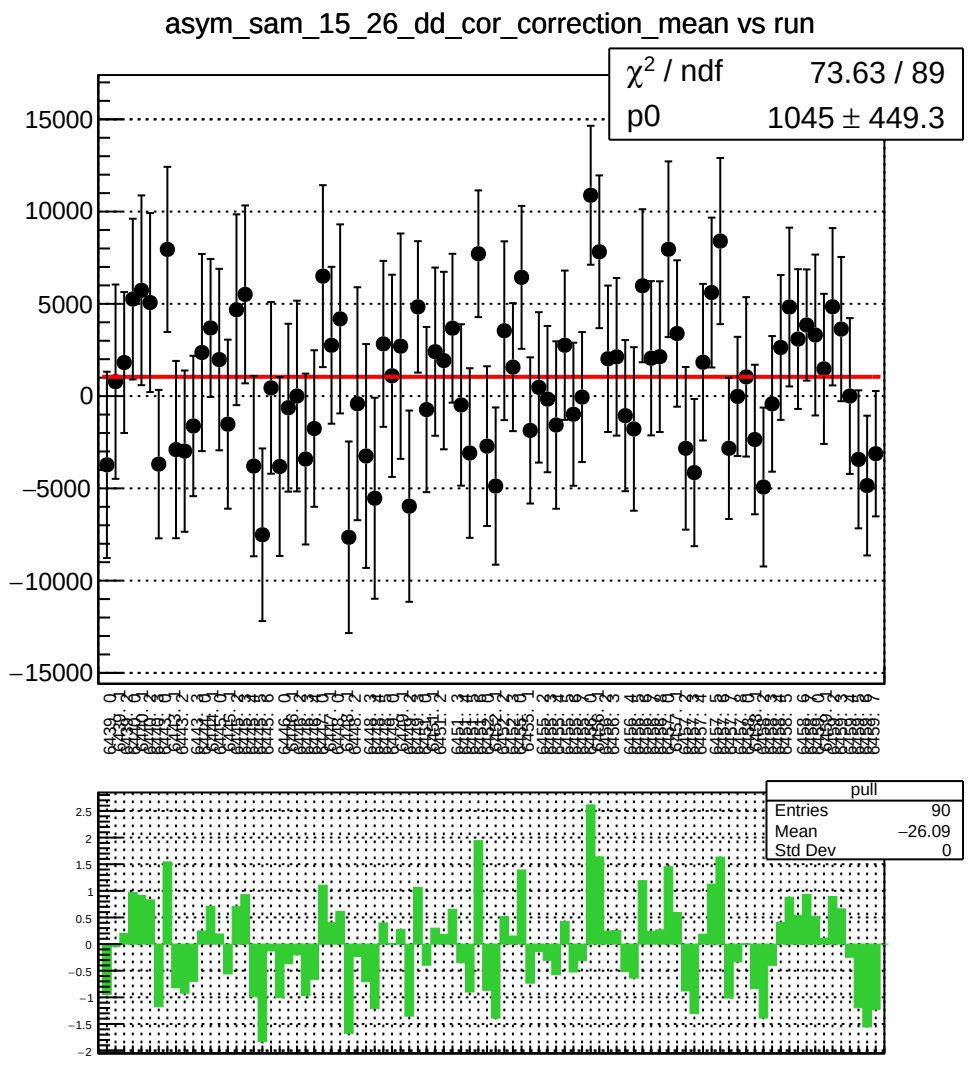

pull1D
Entries 90
Mean −0.01626
Std Dev 0.9044
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

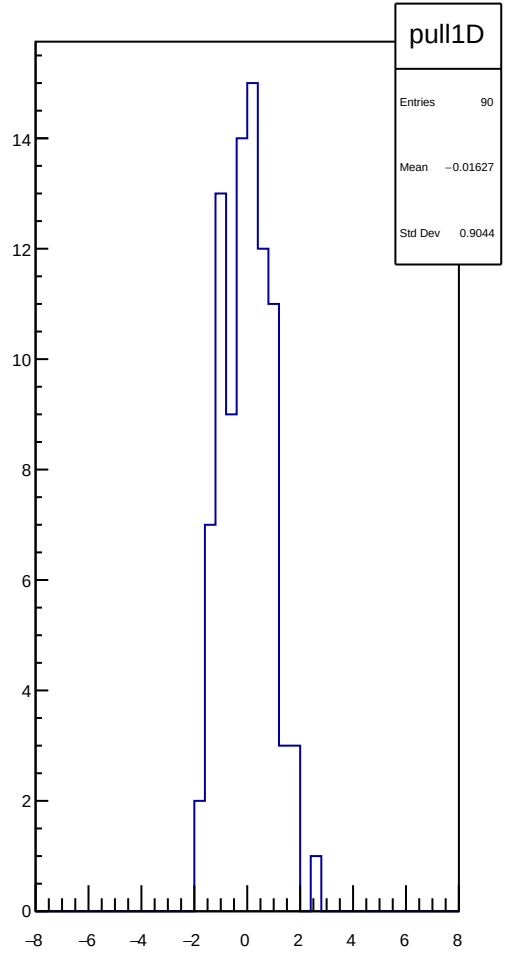

asym_sam_15_26_dd_reg_correction_rms vs run
χ² / ndf 2.337e+04 / 89
p0 421.3 ± 0.3177
600
550
500
450
400
350

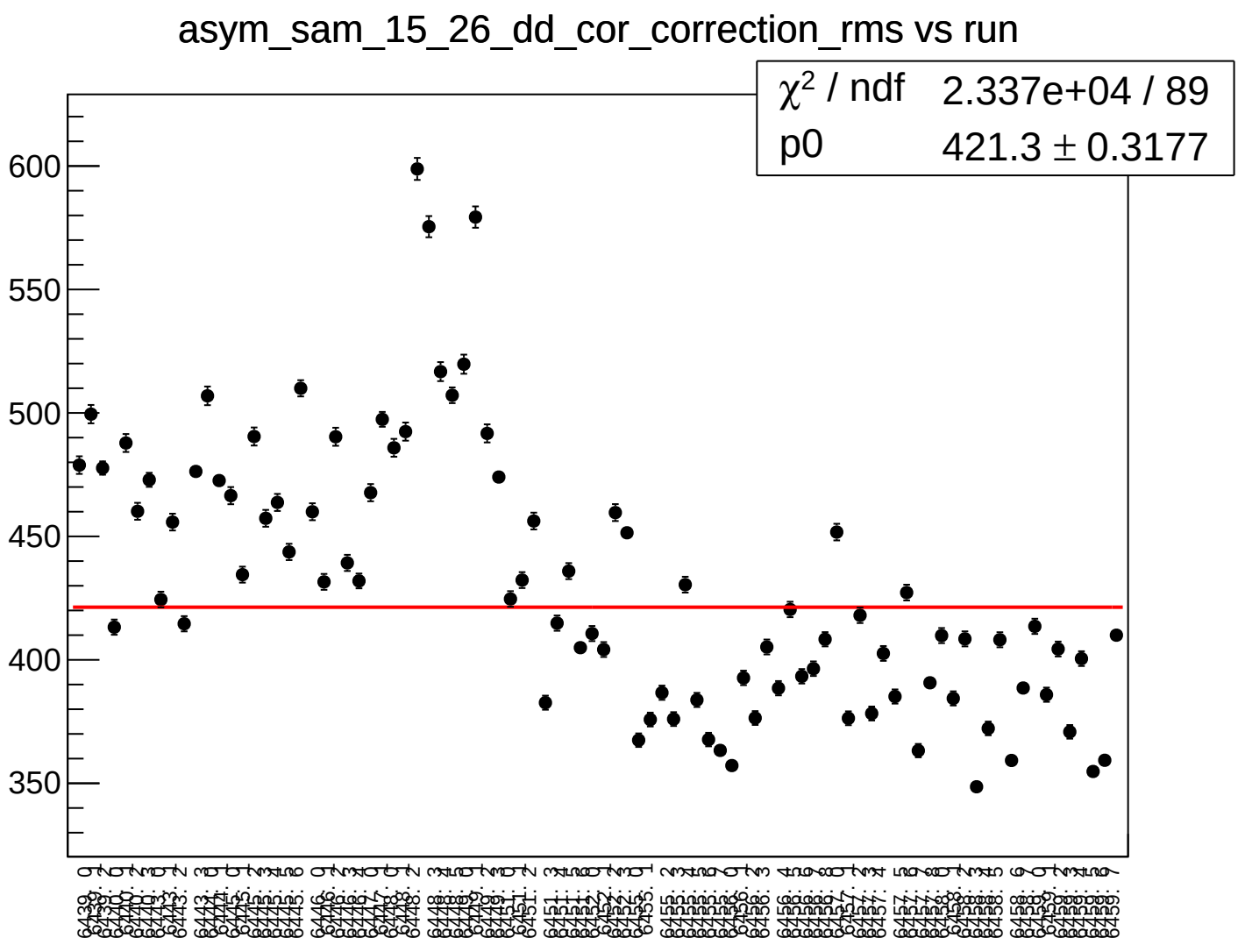

cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 104.8 / 89
p0 −1.376 ± 56.7
2000
1000
0
−1000
−2000
pull
Entries 90
Mean 12.36
Std Dev 0
2
1
0
−1
−2
−3

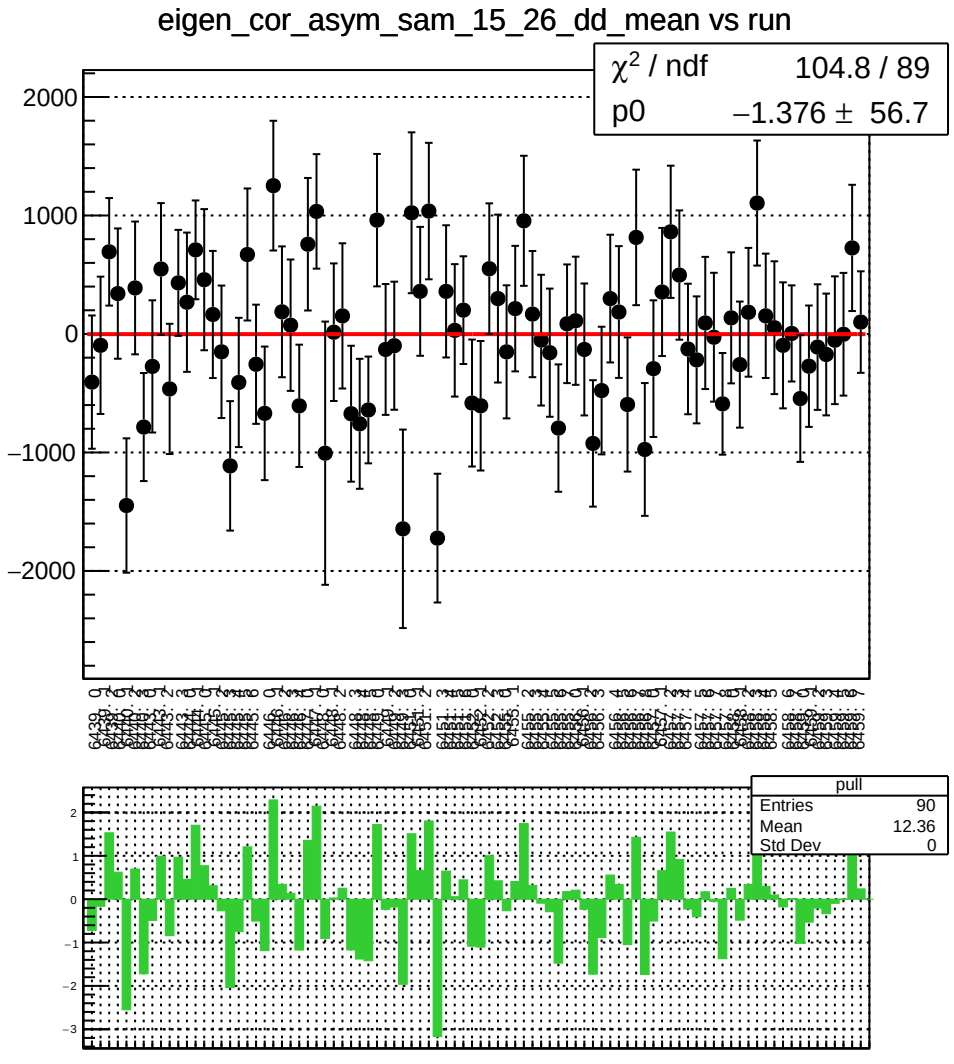

pull1D
Entries 90
Mean −0.01031
Std Dev 1.079
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

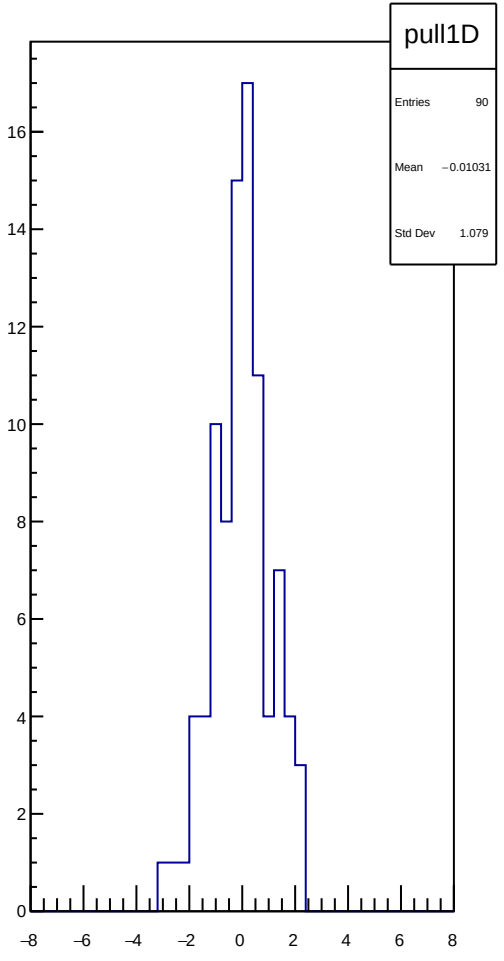

cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 2.31e+04 / 89
p0 53.18 ± 0.0401
110
100
90
80
70
60
50

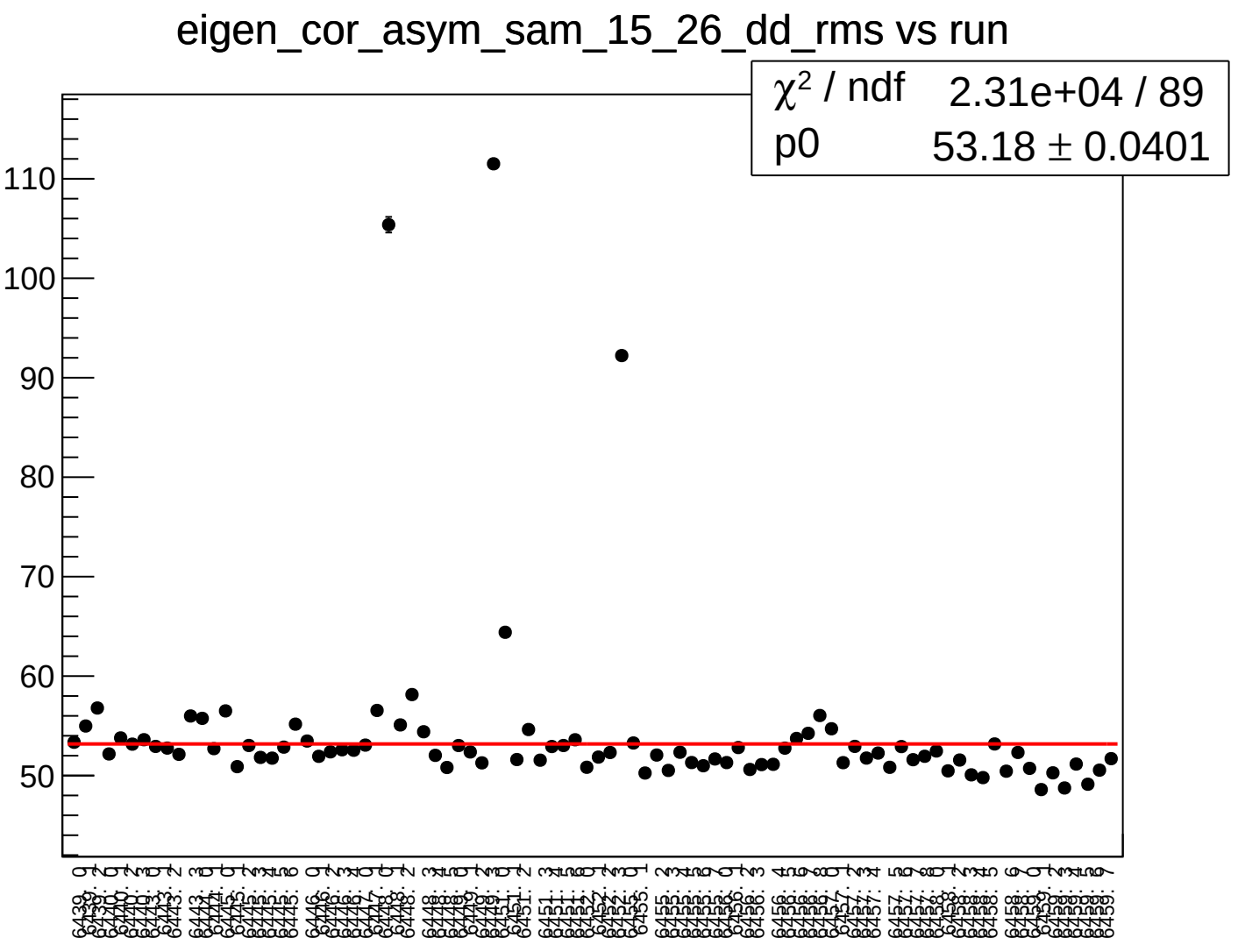

asym_sam_15_26_dd_cor_correction_mean vs run
χ² / ndf 73.63 / 89
p0 1045 ± 449.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 90
Mean −26.09
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

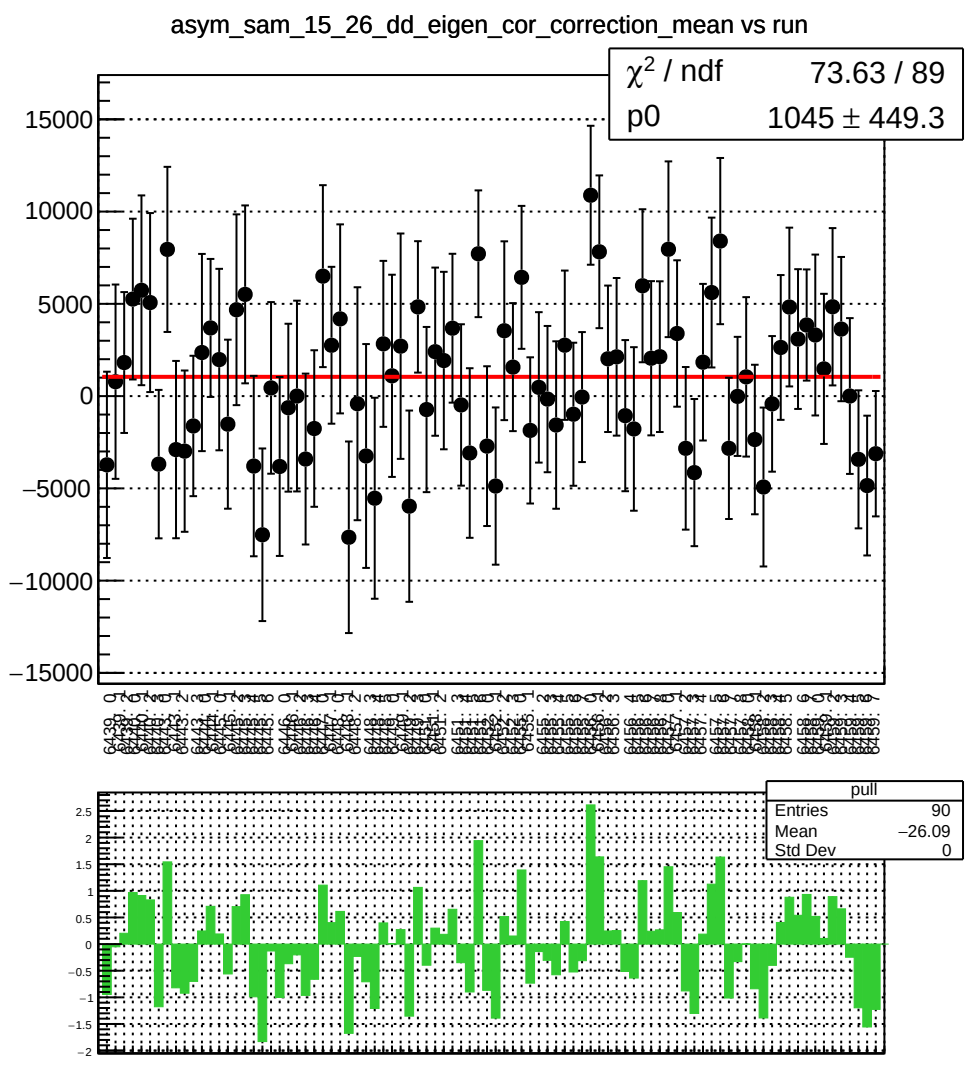

pull1D
Entries 90
Mean −0.01627
Std Dev 0.9044
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

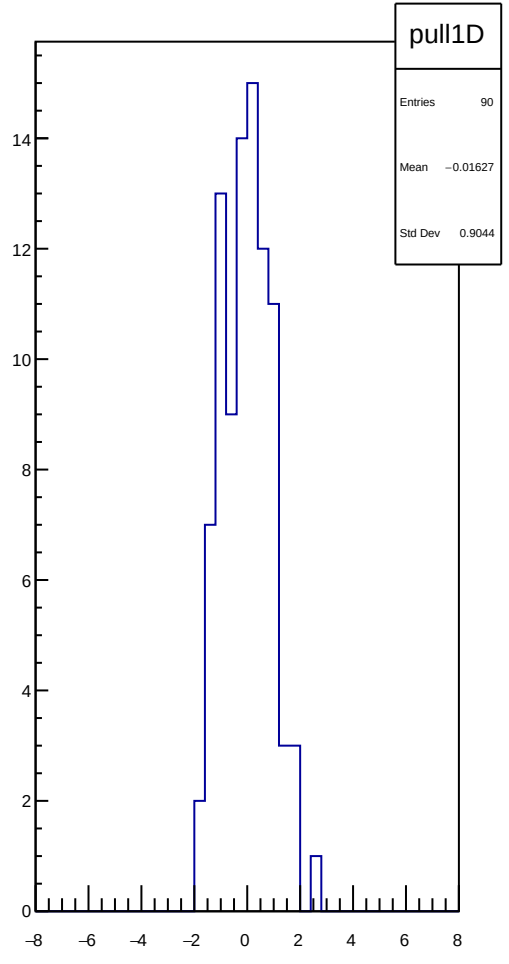

asym_sam_15_26_dd_cor_correction_rms vs run
χ² / ndf 2.337e+04 / 89
p0 421.3 ± 0.3177
600
550
500
450
400
350

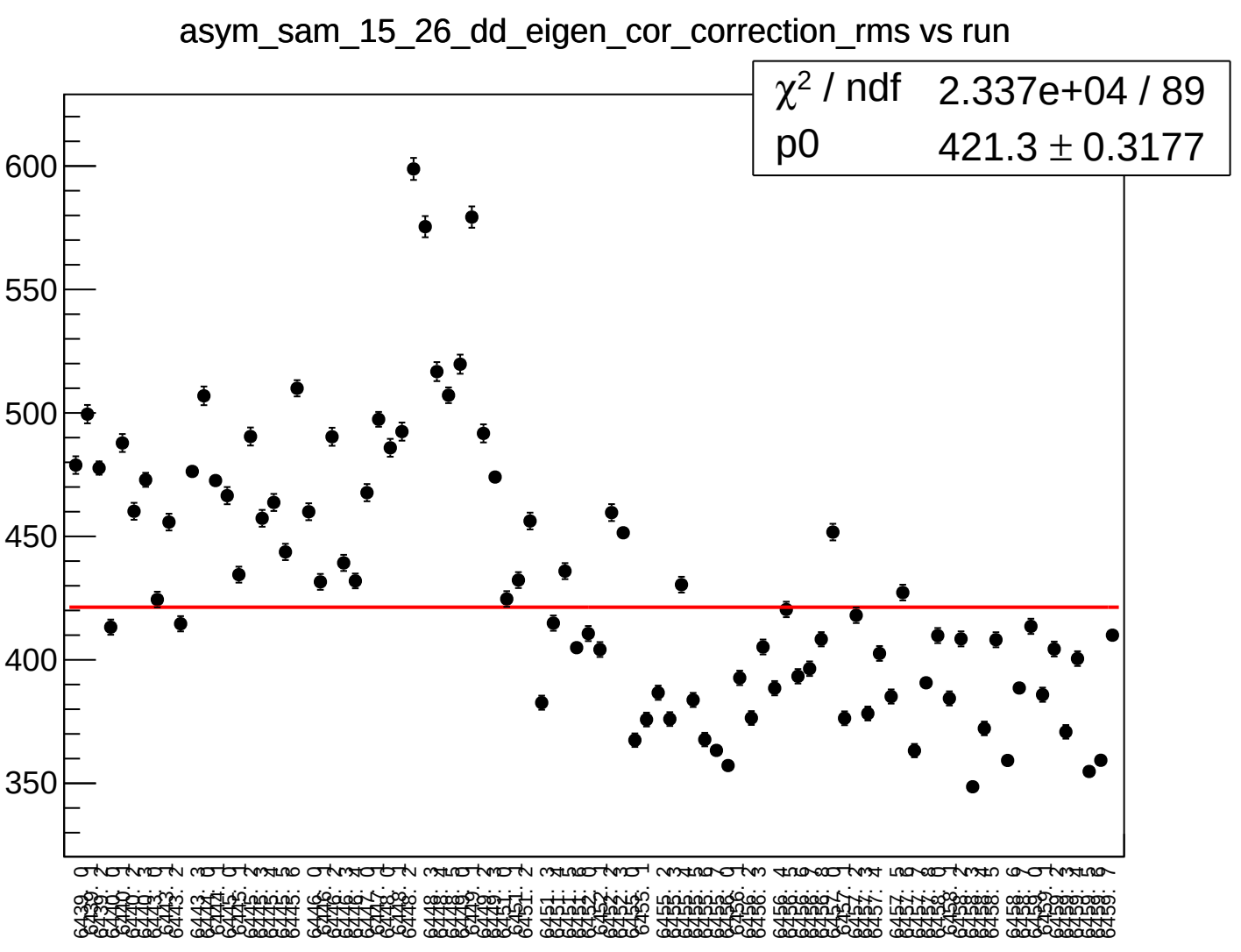

eigen_cor_asym_sam_15_26_dd_mean vs run
χ^2 / ndf 104.8 / 89
p0 −1.376 ± 56.7
2000
1000
0
−1000
−2000
pull
Entries 90
Mean 12.36
Std Dev 0
2
1
0
−1
−2
−3

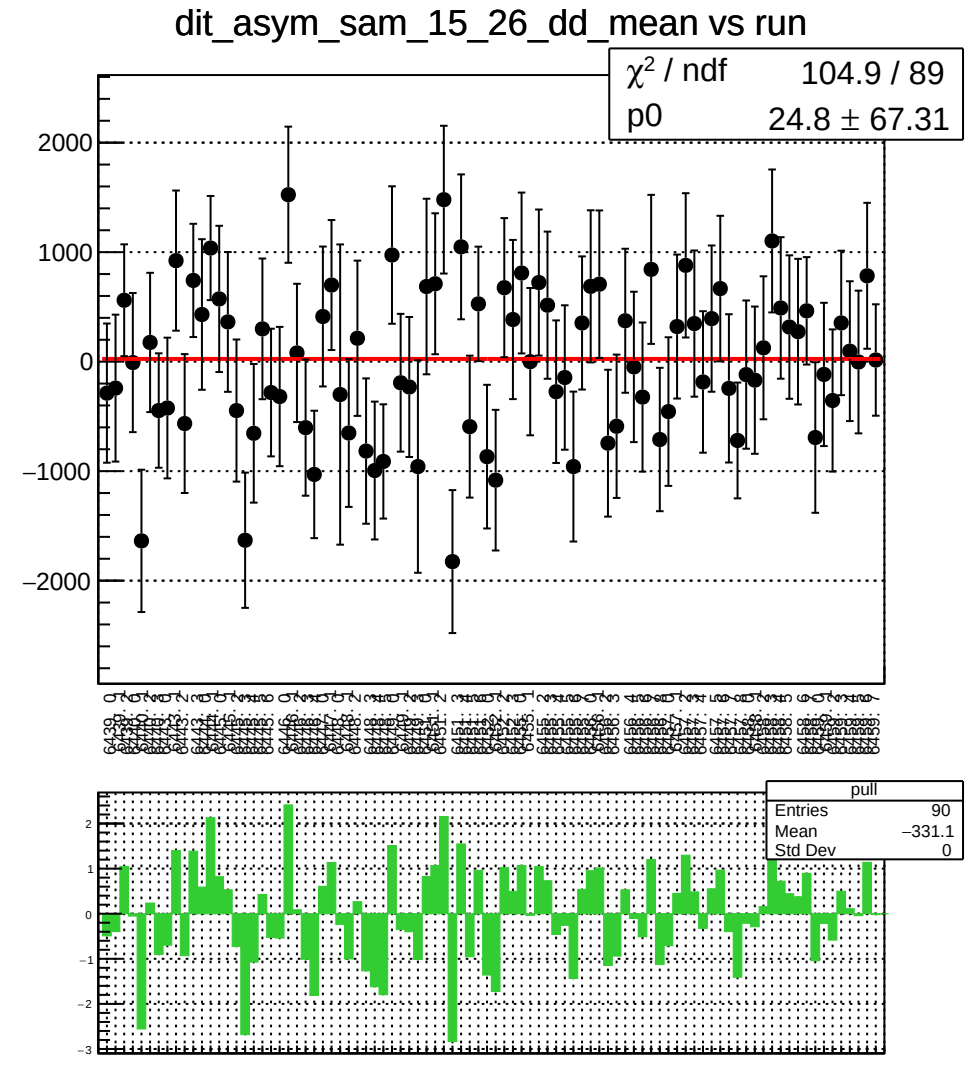

pull1D
Entries 90
Mean −0.01031
Std Dev 1.079
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

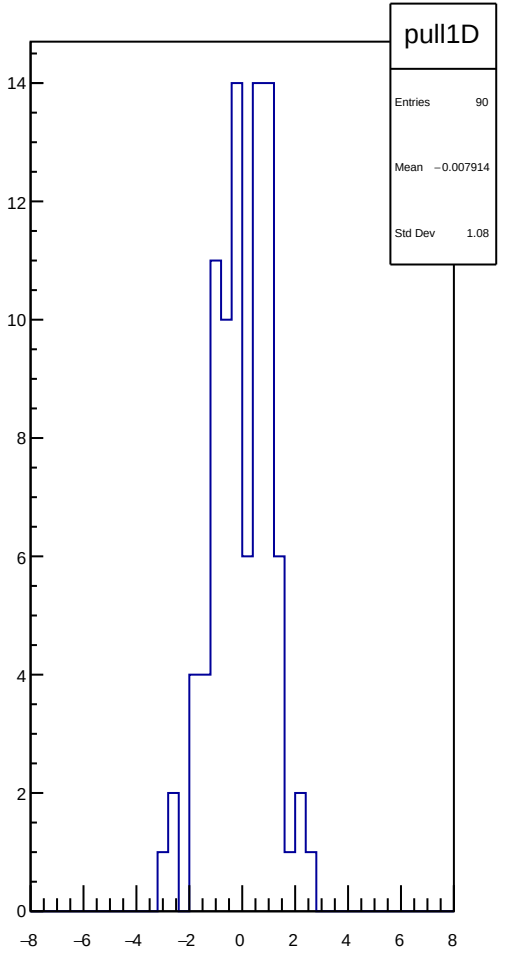

eigen_cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 2.31e+04 / 89
p0 53.18 ± 0.0401
110
100
90
80
70
60
50

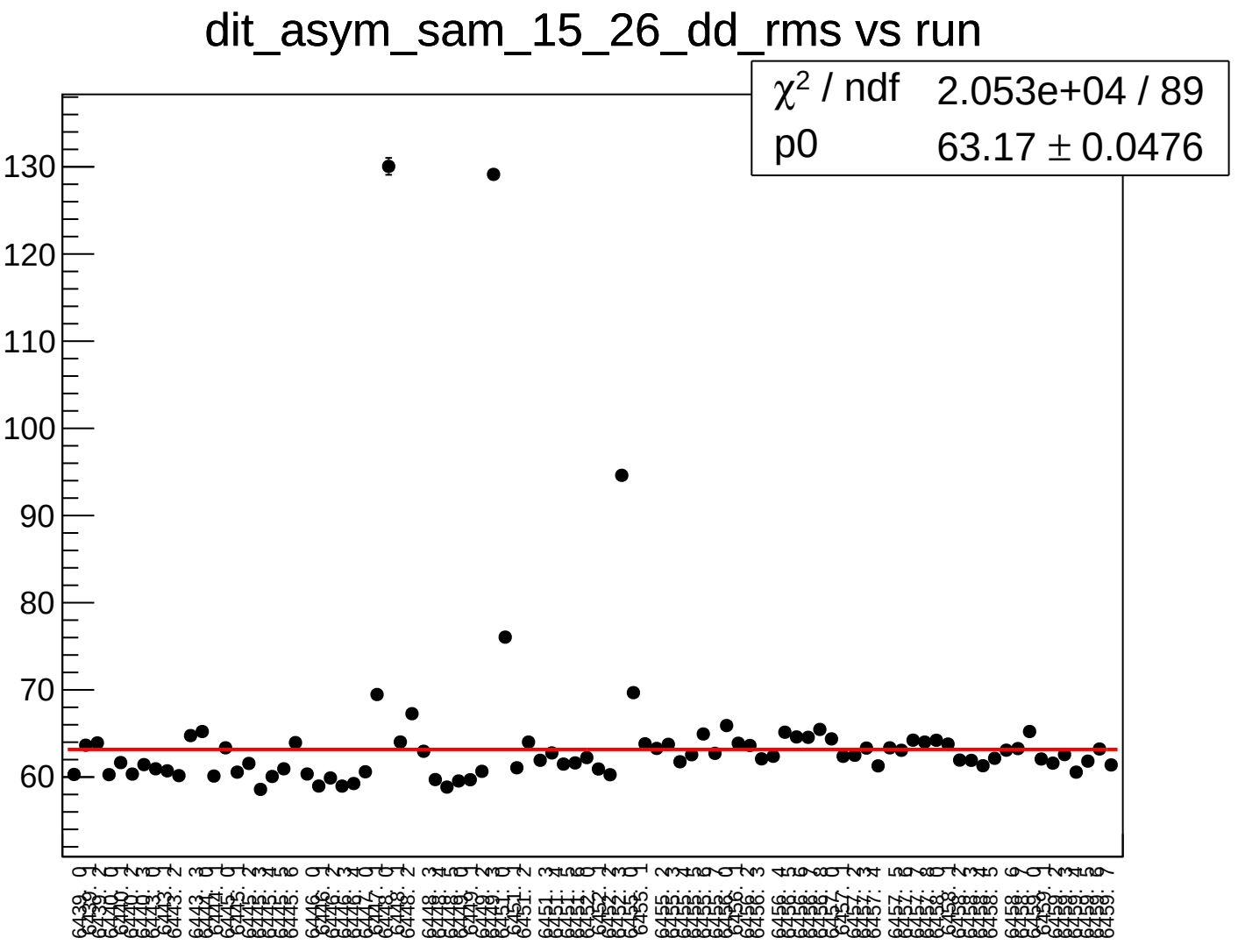

asym_sam_15_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 73.63 / 89
p0 1045 ± 449.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 90
Mean −26.09
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

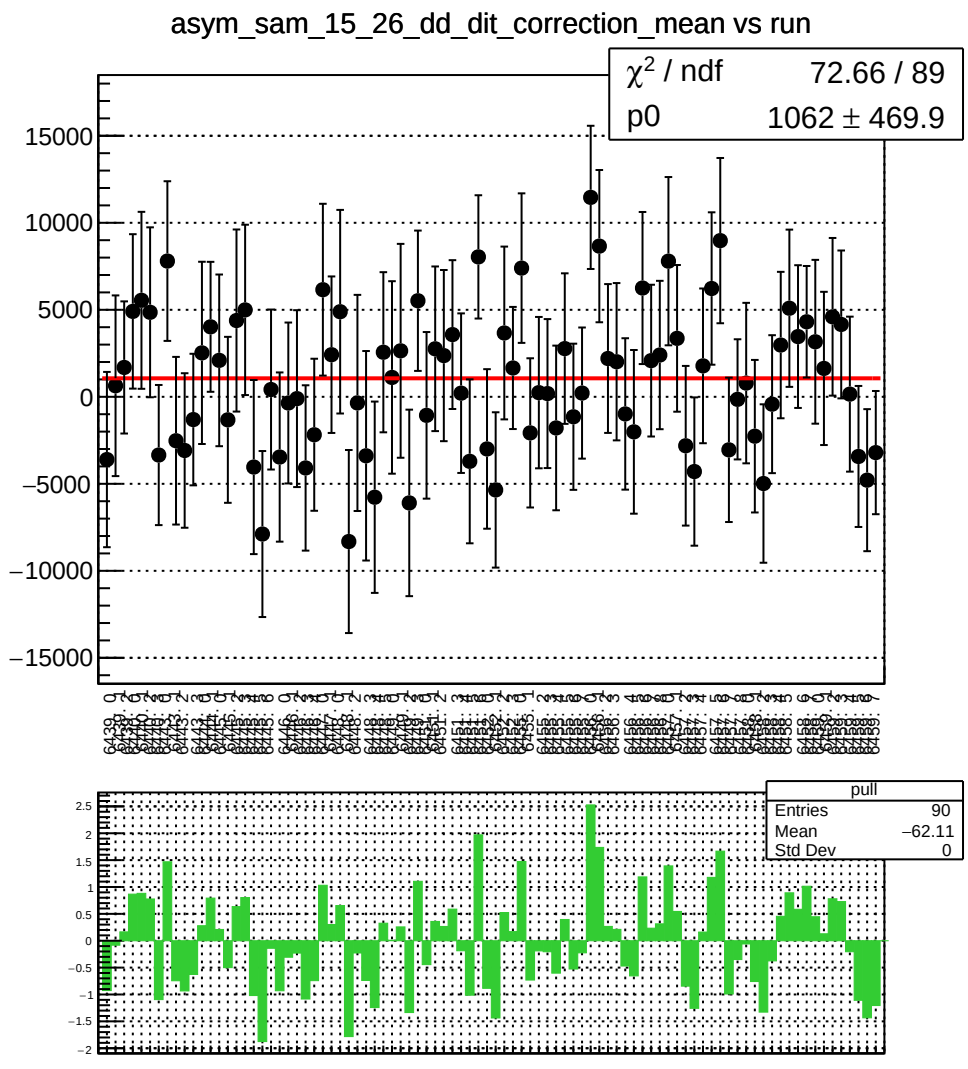

pull1D
Entries 90
Mean −0.01627
Std Dev 0.9044
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

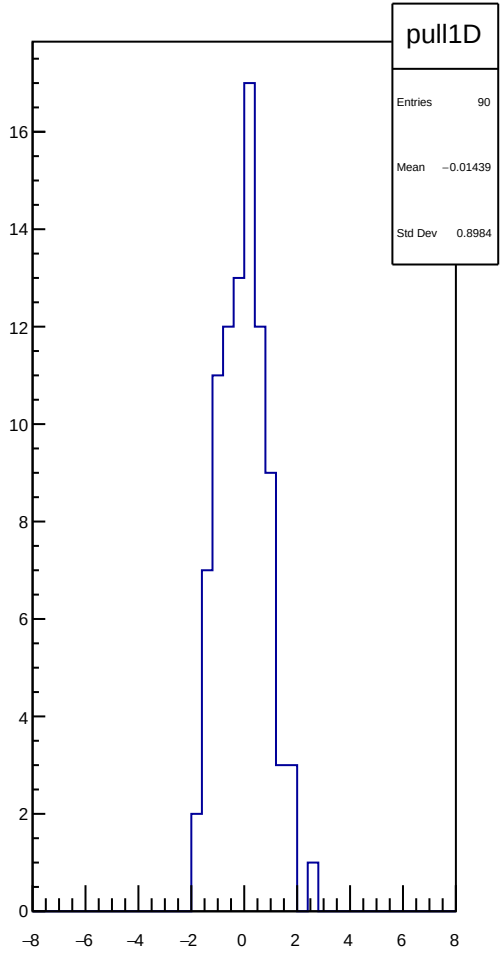

asym_sam_15_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.337e+04 / 89
p0 421.3 ± 0.3177
600
550
500
450
400
350

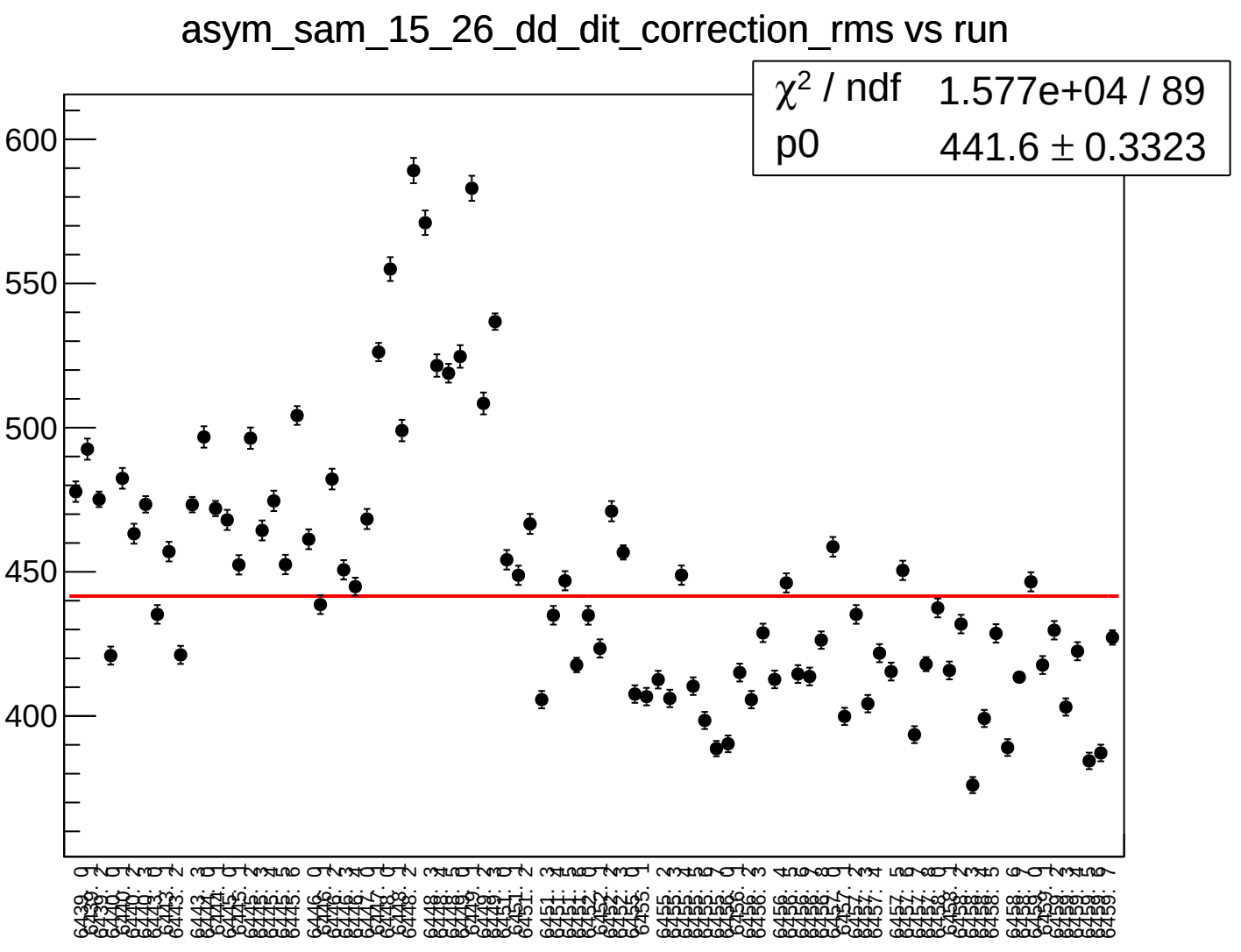

dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 104.9 / 89
p0 24.8 ± 67.31
2000
1000
0
−1000
−2000
pull
Entries 90
Mean −331.1
Std Dev 0
2
1
0
−1
−2
−3

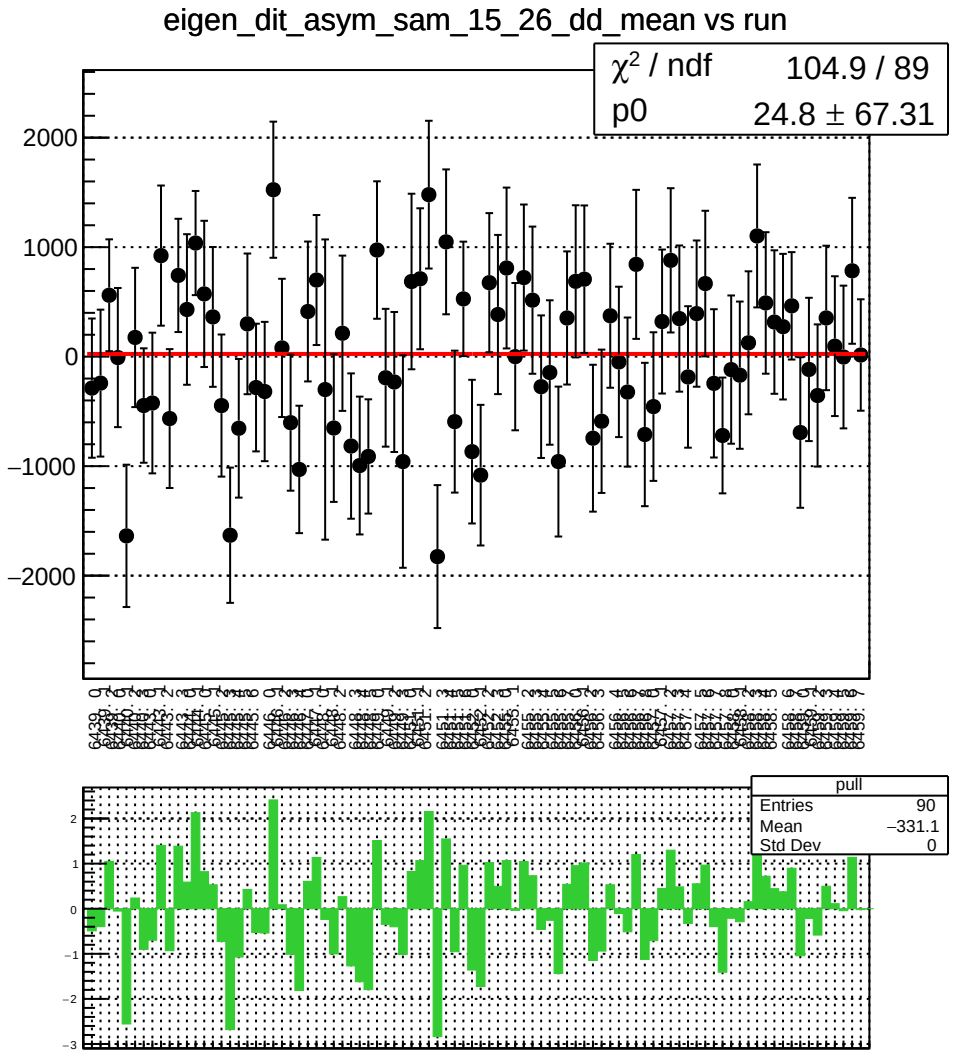

pull1D
Entries 90
Mean −0.007914
Std Dev 1.08
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

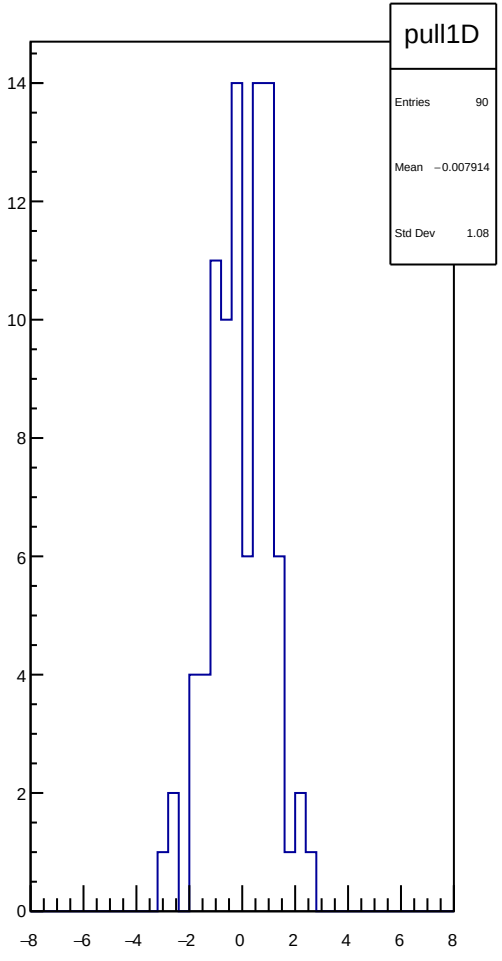

dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 2.053e+04 / 89
p0 63.17 ± 0.0476
130
120
110
100
90
80
70
60

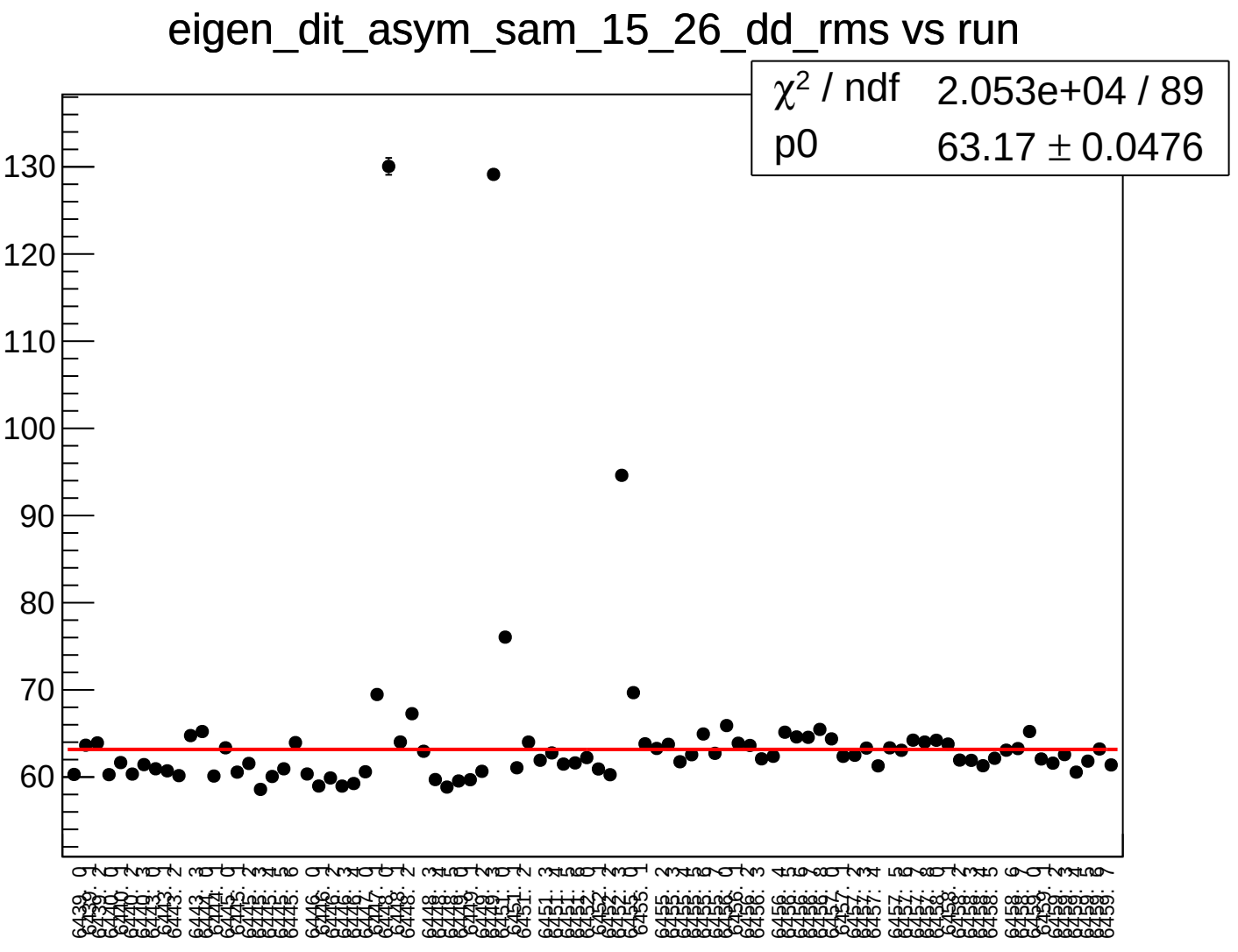

asym_sam_15_26_dd_dit_correction_mean vs run
χ² / ndf 72.66 / 89
p0 1062 ± 469.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 90
Mean −62.11
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

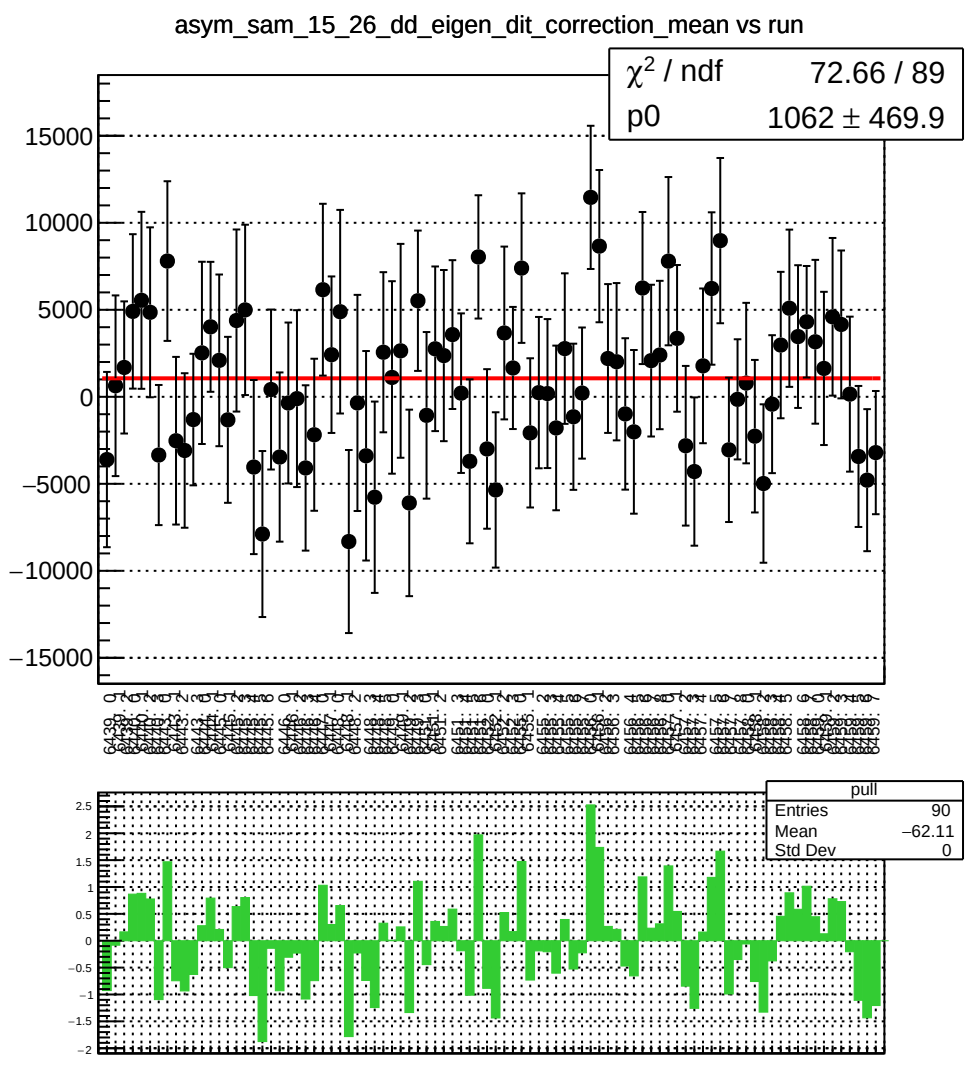

pull1D
Entries 90
Mean −0.01439
Std Dev 0.8984
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

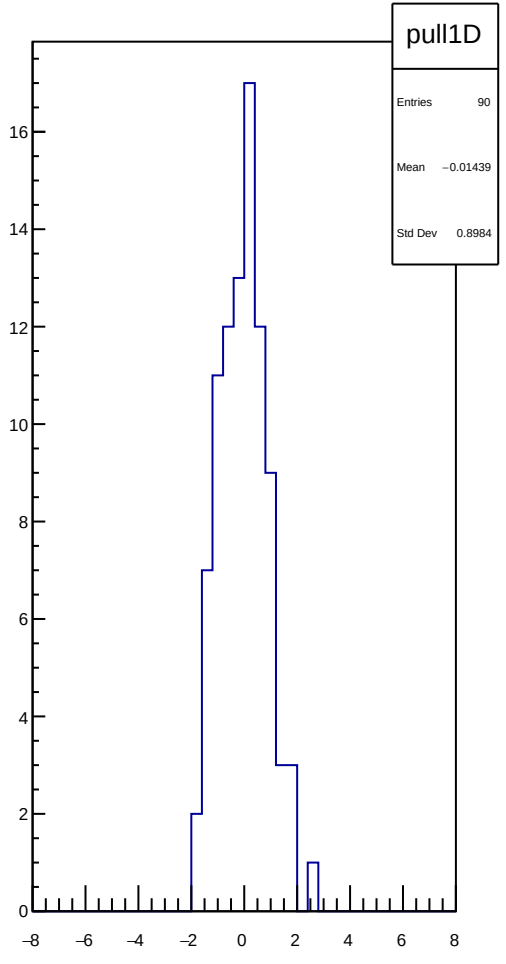

asym_sam_15_26_dd_dit_correction_rms vs run
χ² / ndf 1.577e+04 / 89
p0 441.6 ± 0.3323
600
550
500
450
400

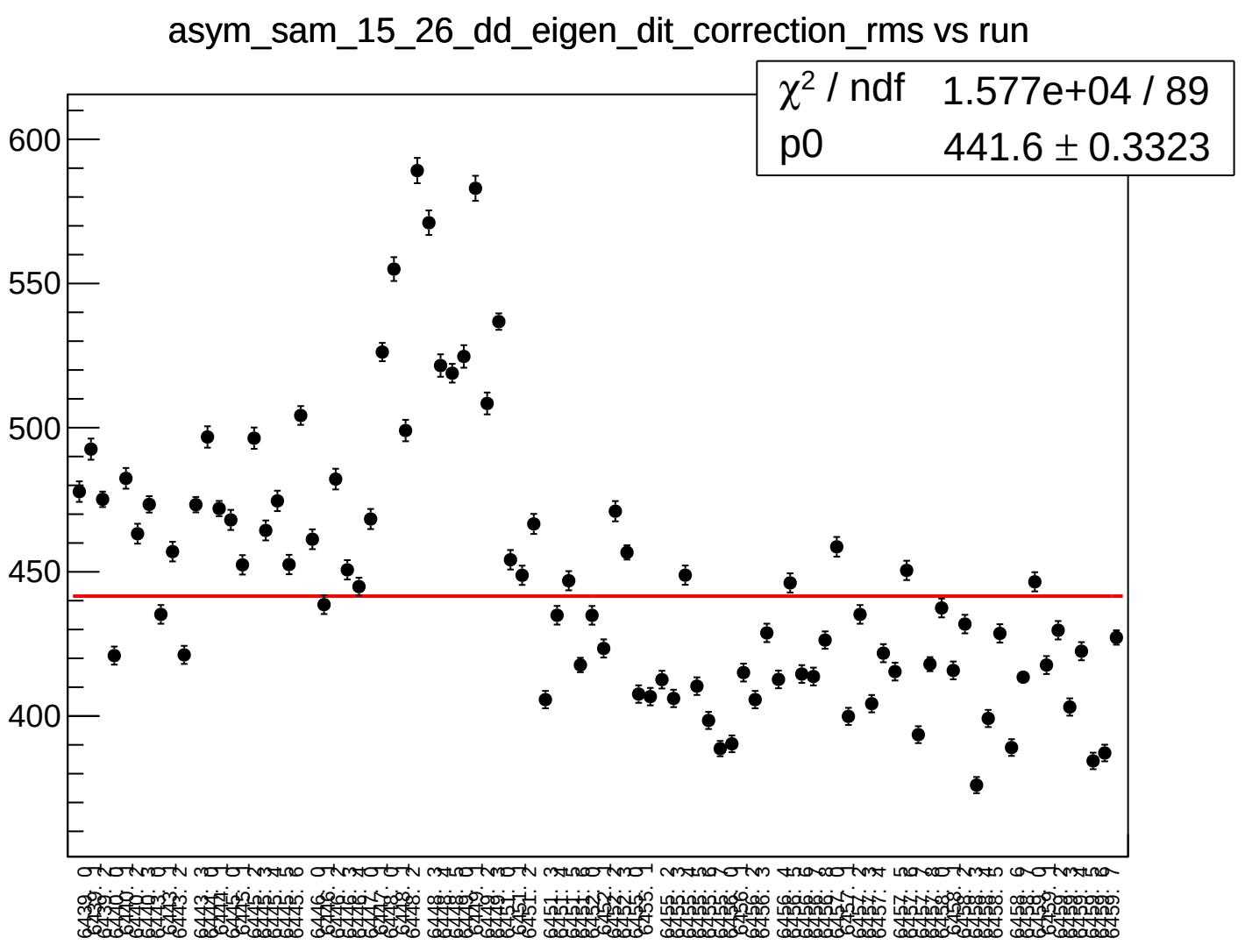

eigen_dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 104.9 / 89
p0 24.8 ± 67.31
2000
1000
0
−1000
−2000
pull
Entries 90
Mean −331.1
Std Dev 0
2
1
0
−1
−2
−3

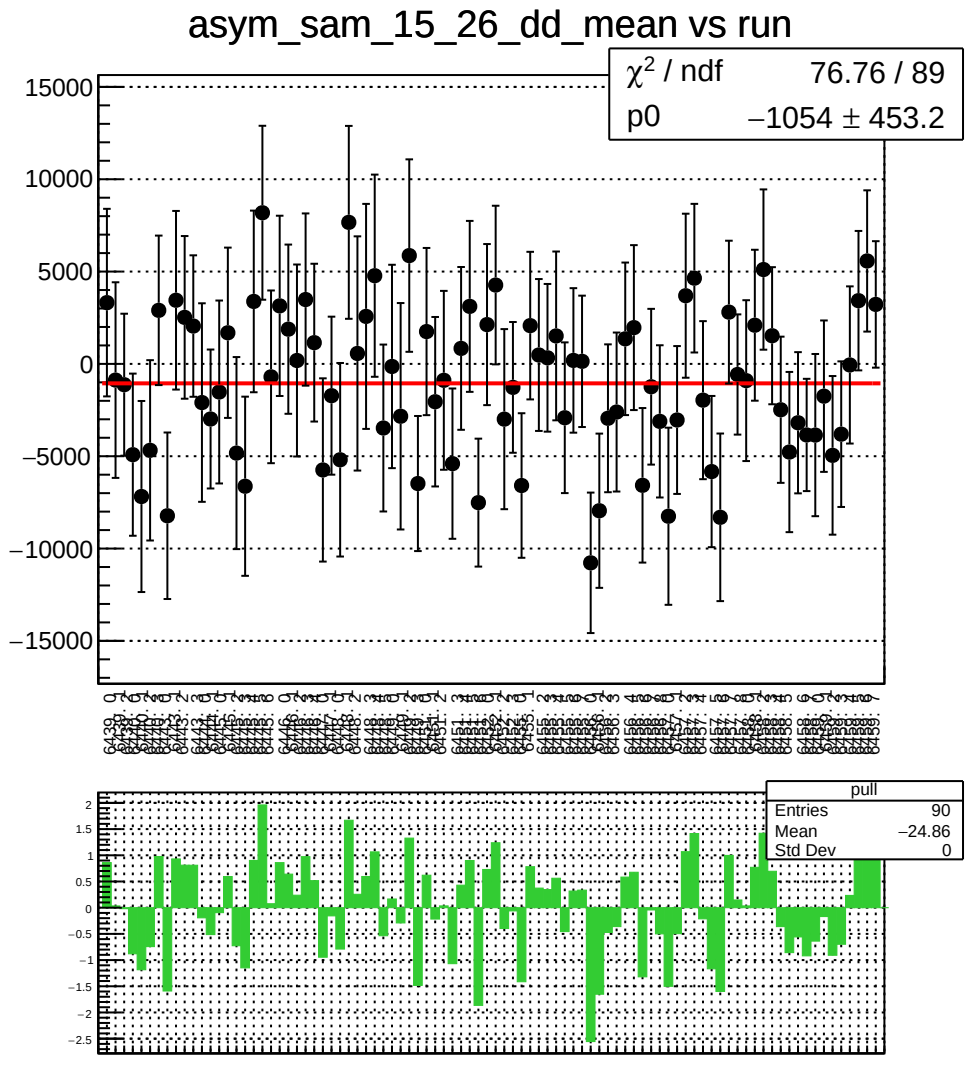

pull1D
Entries 90
Mean −0.007914
Std Dev 1.08
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

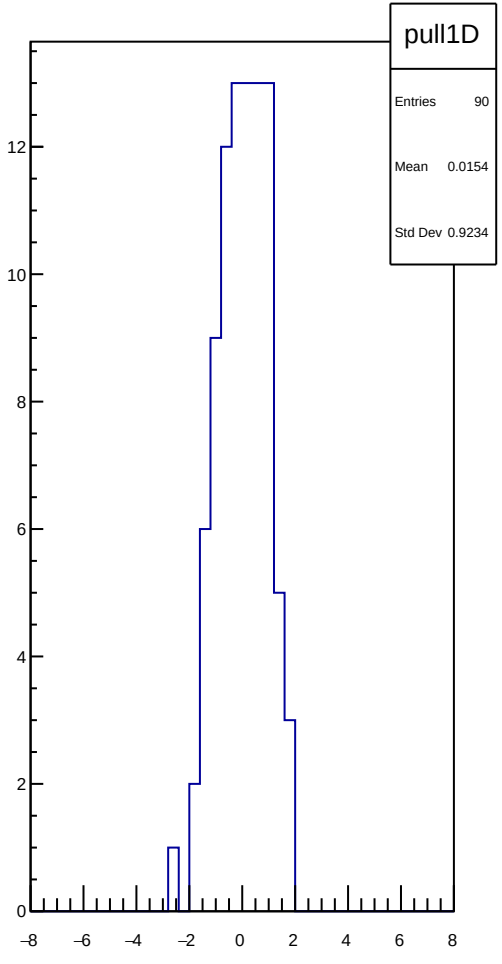

eigen_dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 2.053e+04 / 89
p0 63.17 ± 0.0476
130
120
110
100
90
80
70
60

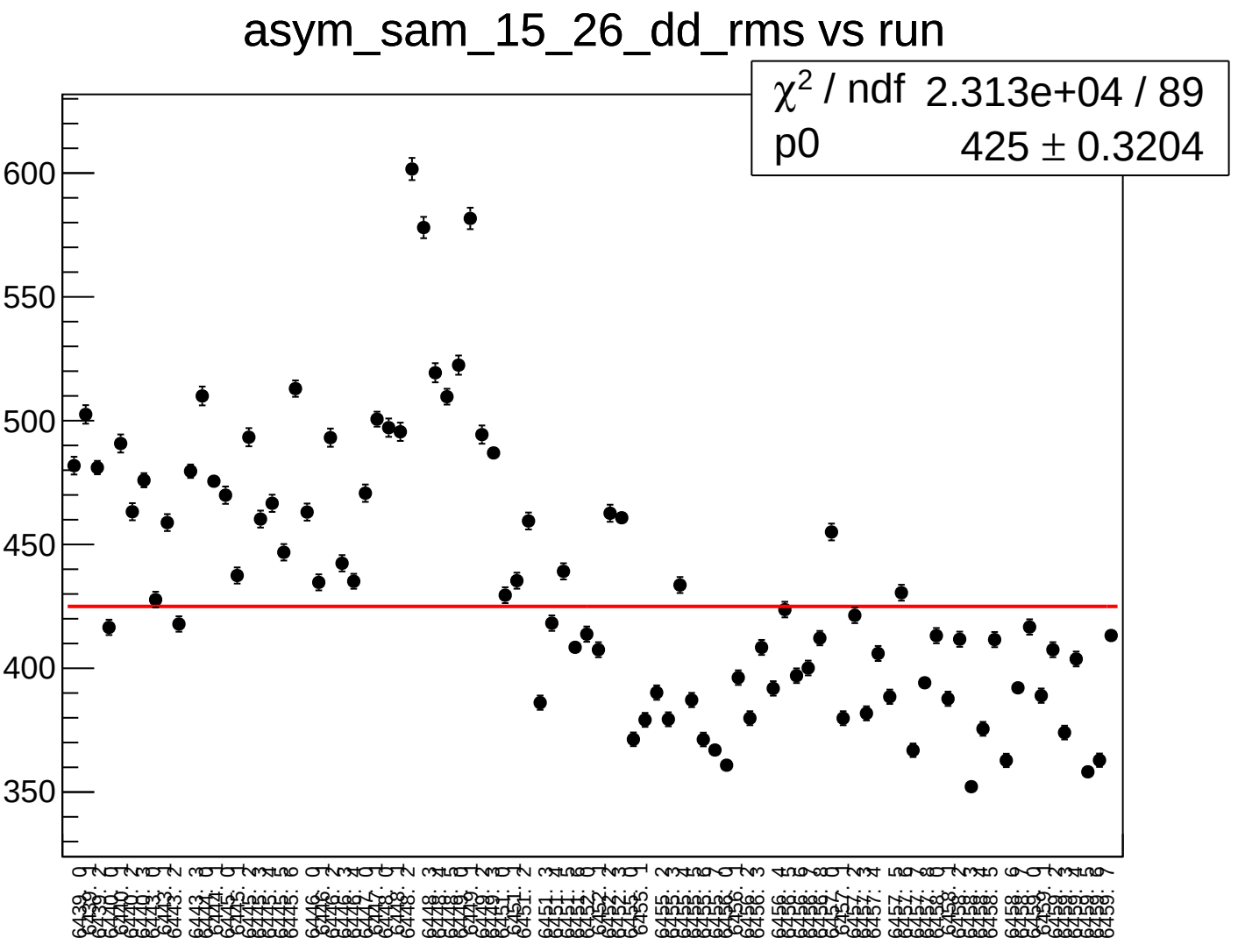

asym_sam_15_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 72.66 / 89
p0 1062 ± 469.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 90
Mean −62.11
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

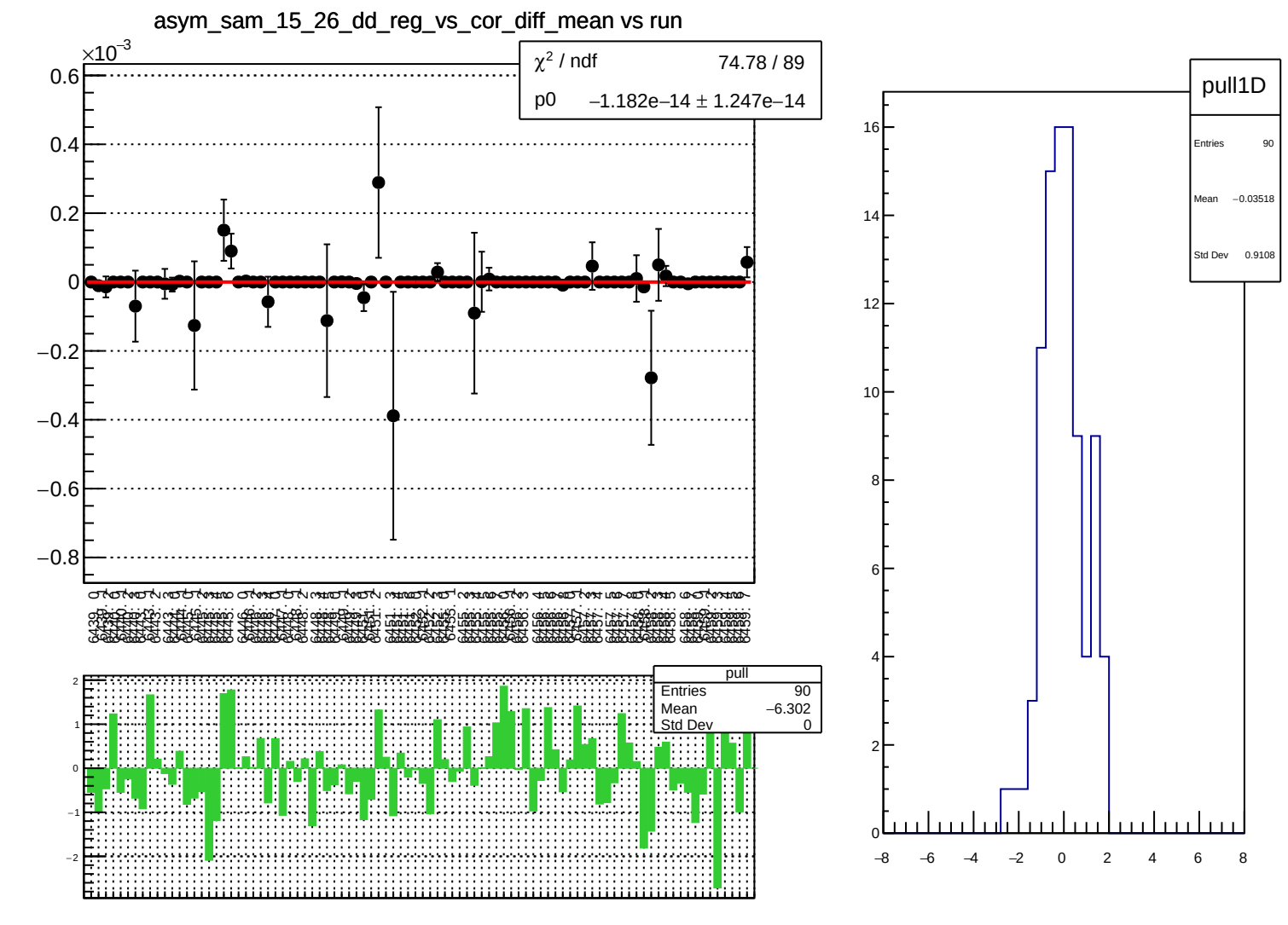

pull1D
Entries 90
Mean −0.01439
Std Dev 0.8984
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

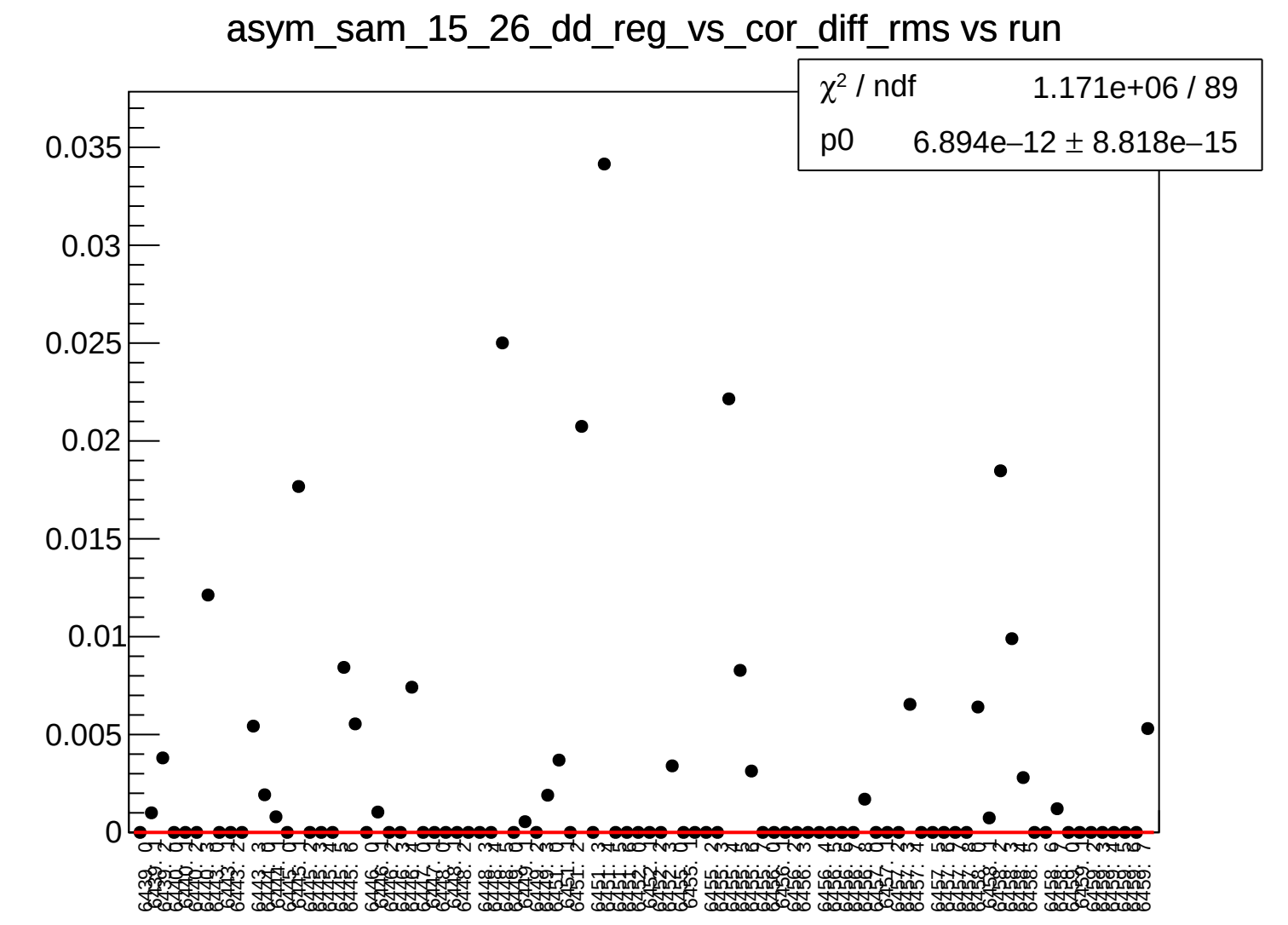

asym_sam_15_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.577e+04 / 89
p0 441.6 ± 0.3323
600
550
500
450
400

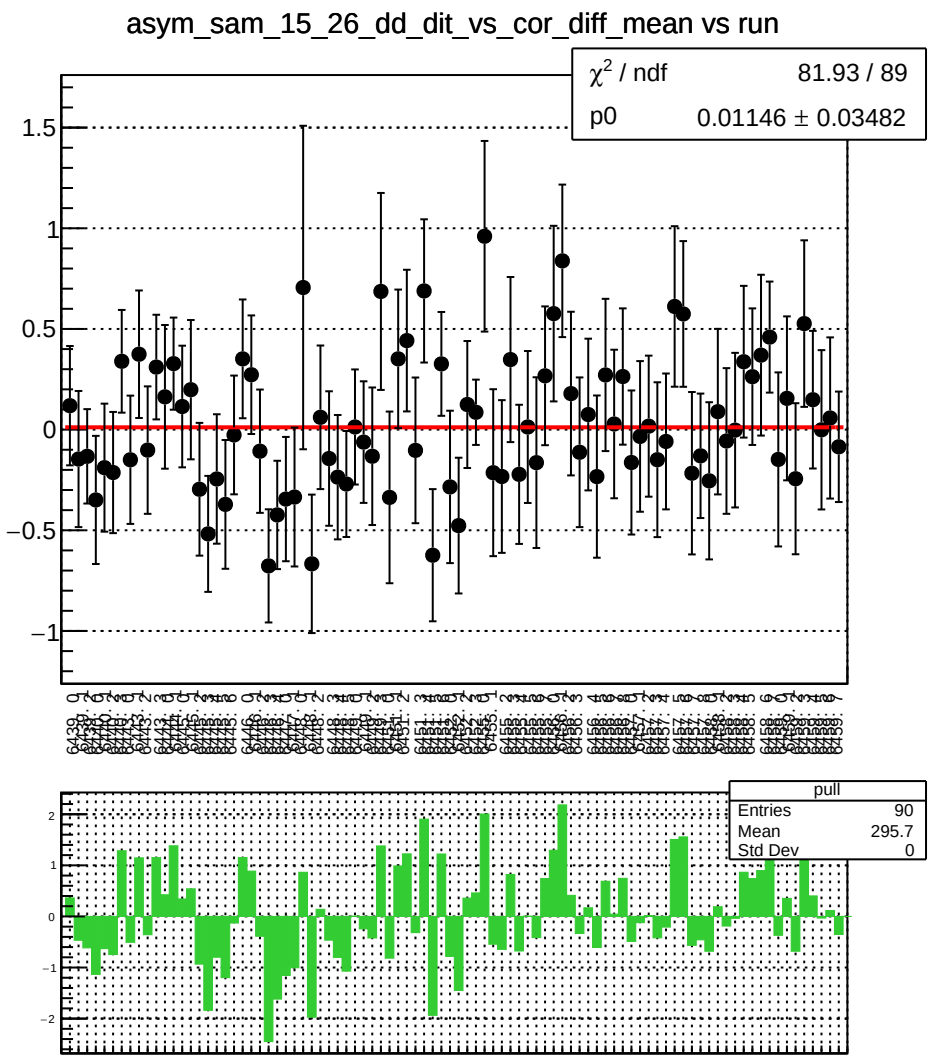

asym_sam_15_26_dd_mean vs run
χ² / ndf 76.76 / 89
p0 −1054 ± 453.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 90
Mean −24.86
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

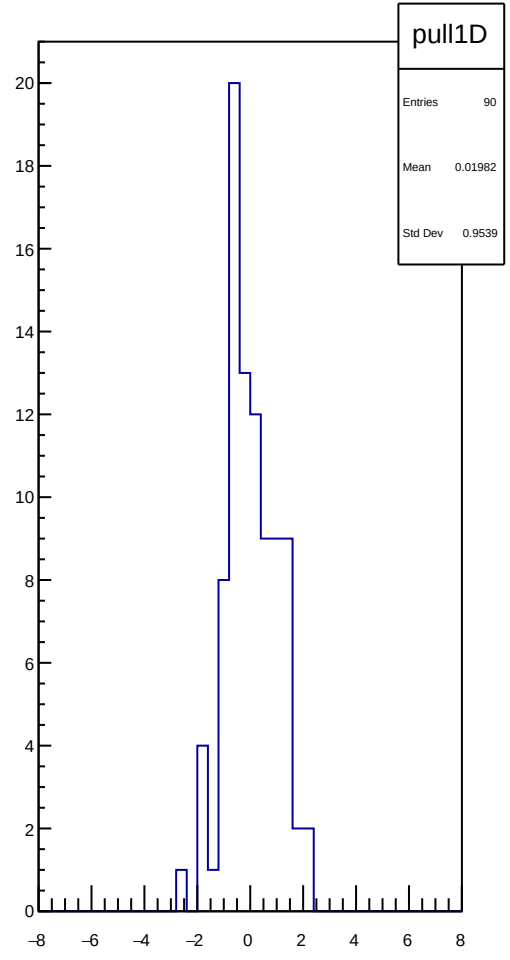

pull1D
Entries 90
Mean 0.0154
Std Dev 0.9234
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

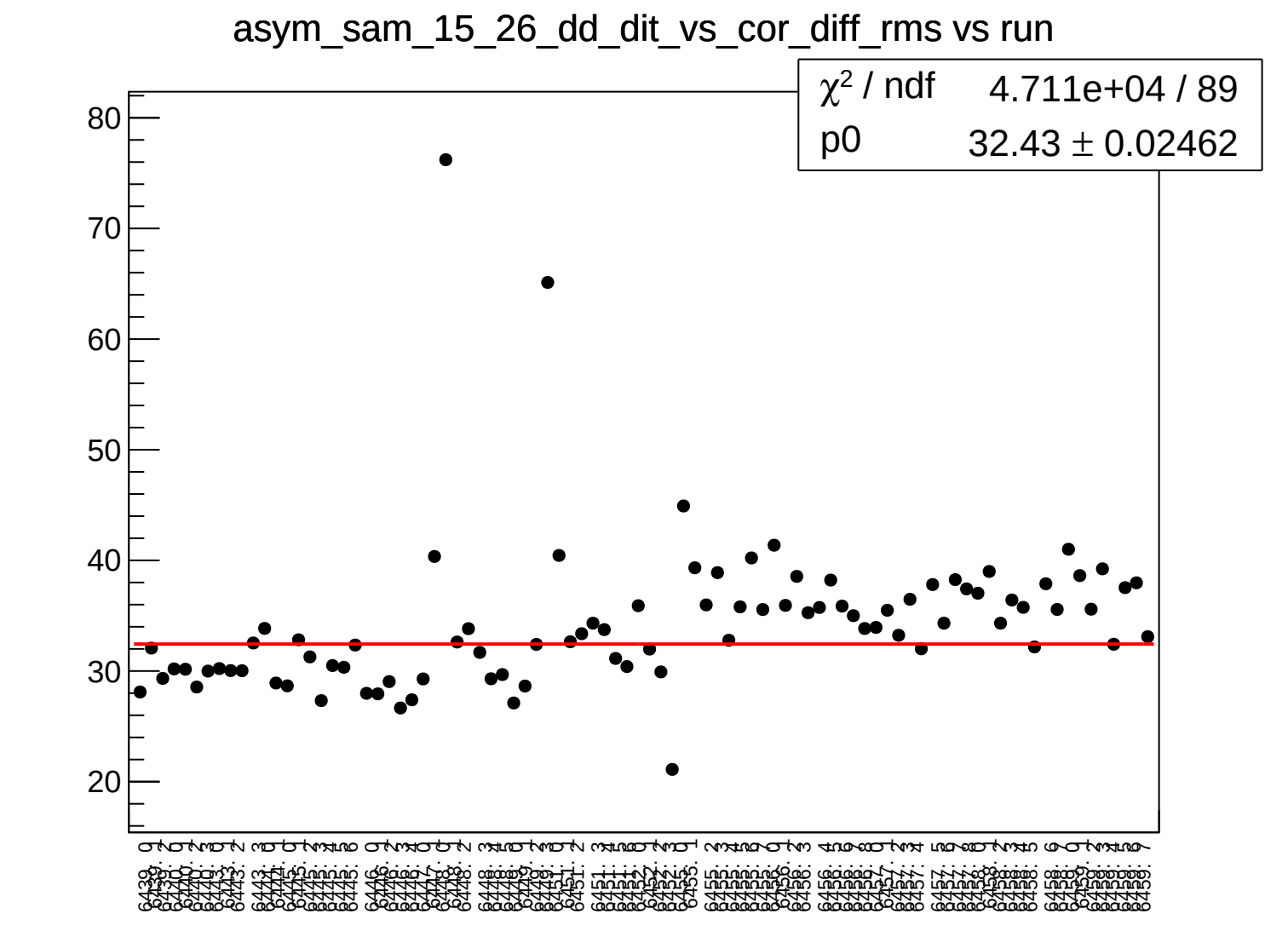

asym_sam_15_26_dd_rms vs run
χ² / ndf 2.313e+04 / 89
p0 425 ± 0.3204
600
550
500
450
400
350

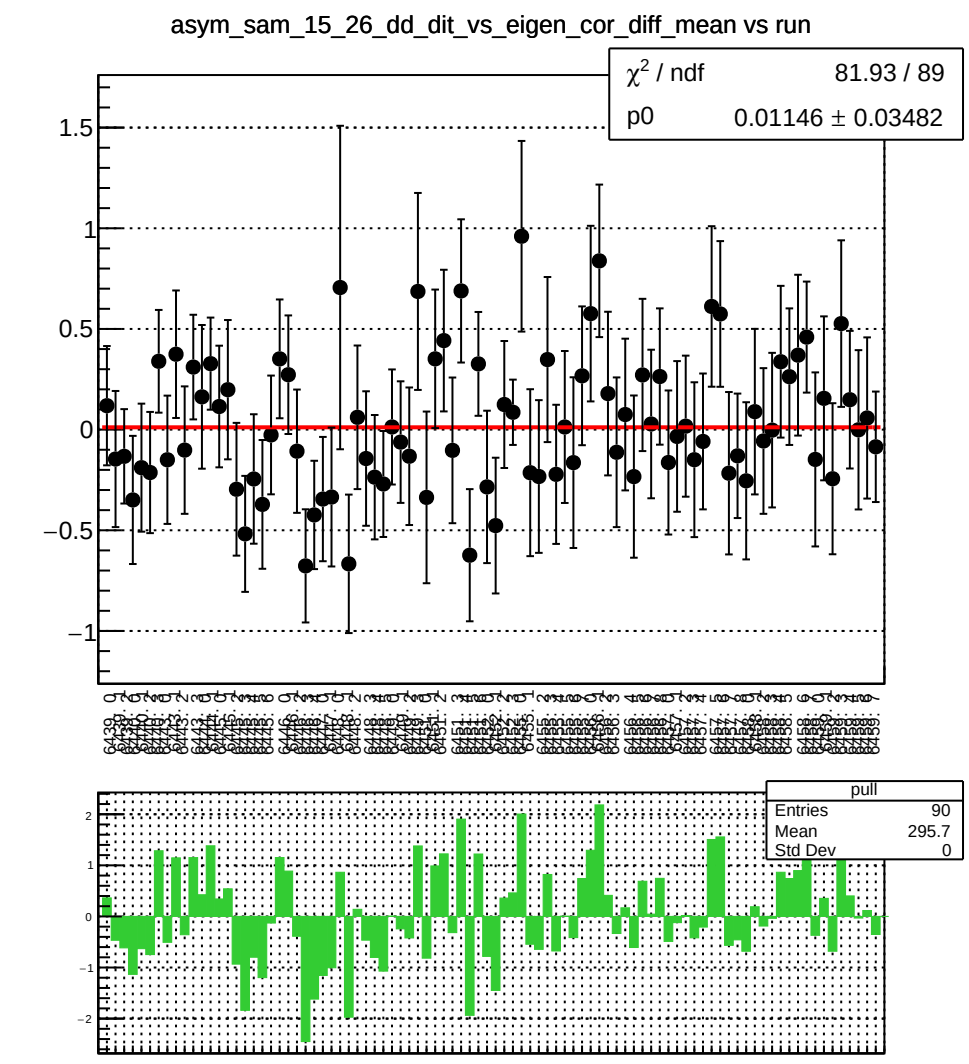

asym_sam_15_26_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 74.78 / 89
p0 −1.182e−14 ± 1.247e−14
pull
Entries 90
Mean −6.302
Std Dev 0
pull1D
Entries 90
Mean −0.03518
Std Dev 0.9108

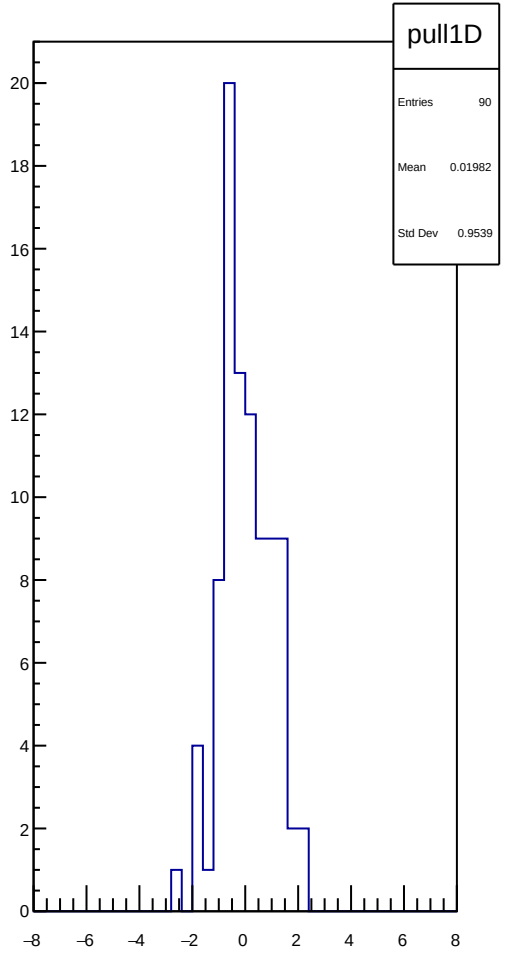

asym_sam_15_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.171e+06 / 89
p0 6.894e−12 ± 8.818e−15
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

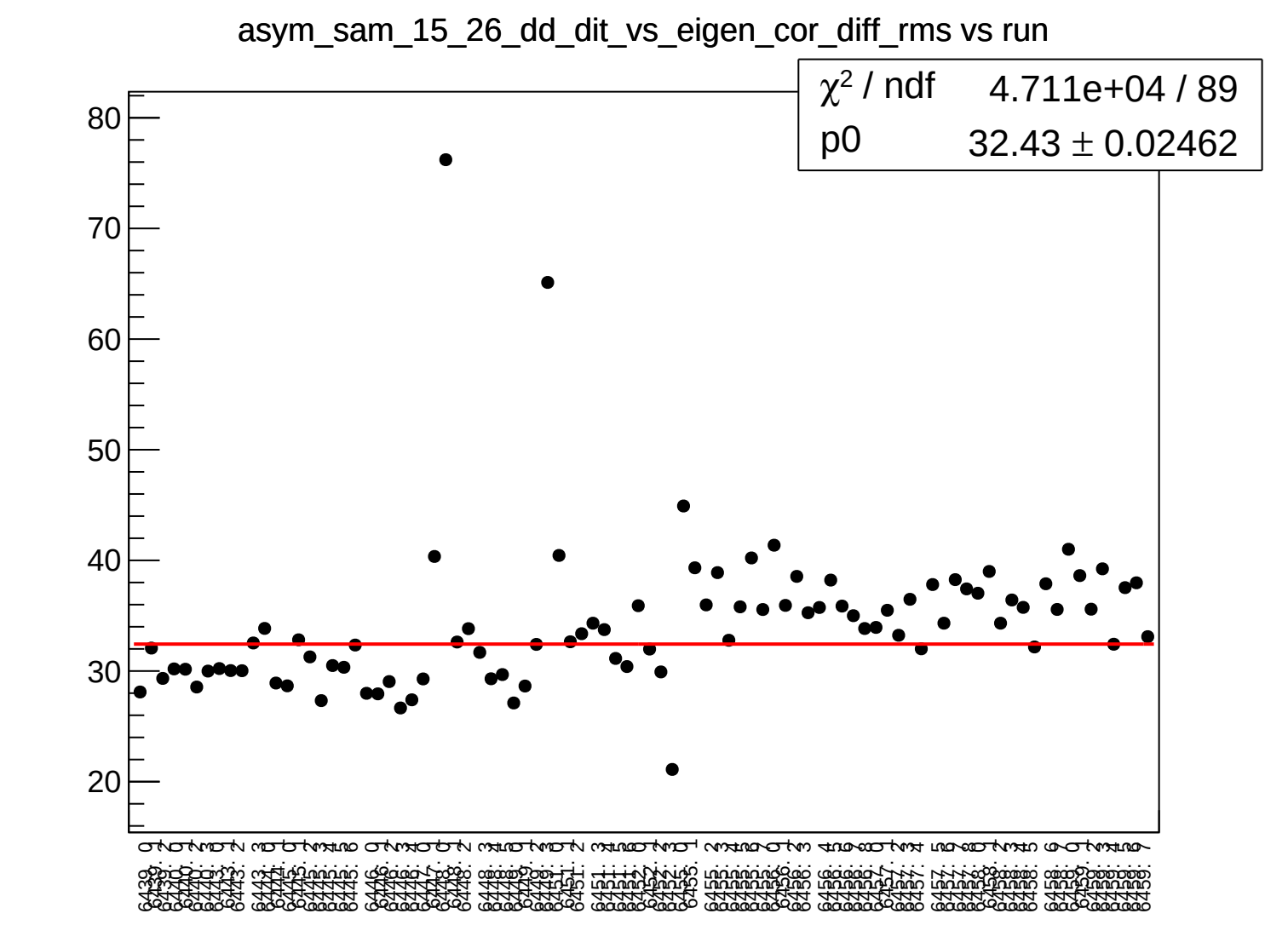

asym_sam_15_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 81.93 / 89
p0 0.01146 ± 0.03482
pull
Entries 90
Mean 295.7
Std Dev 0

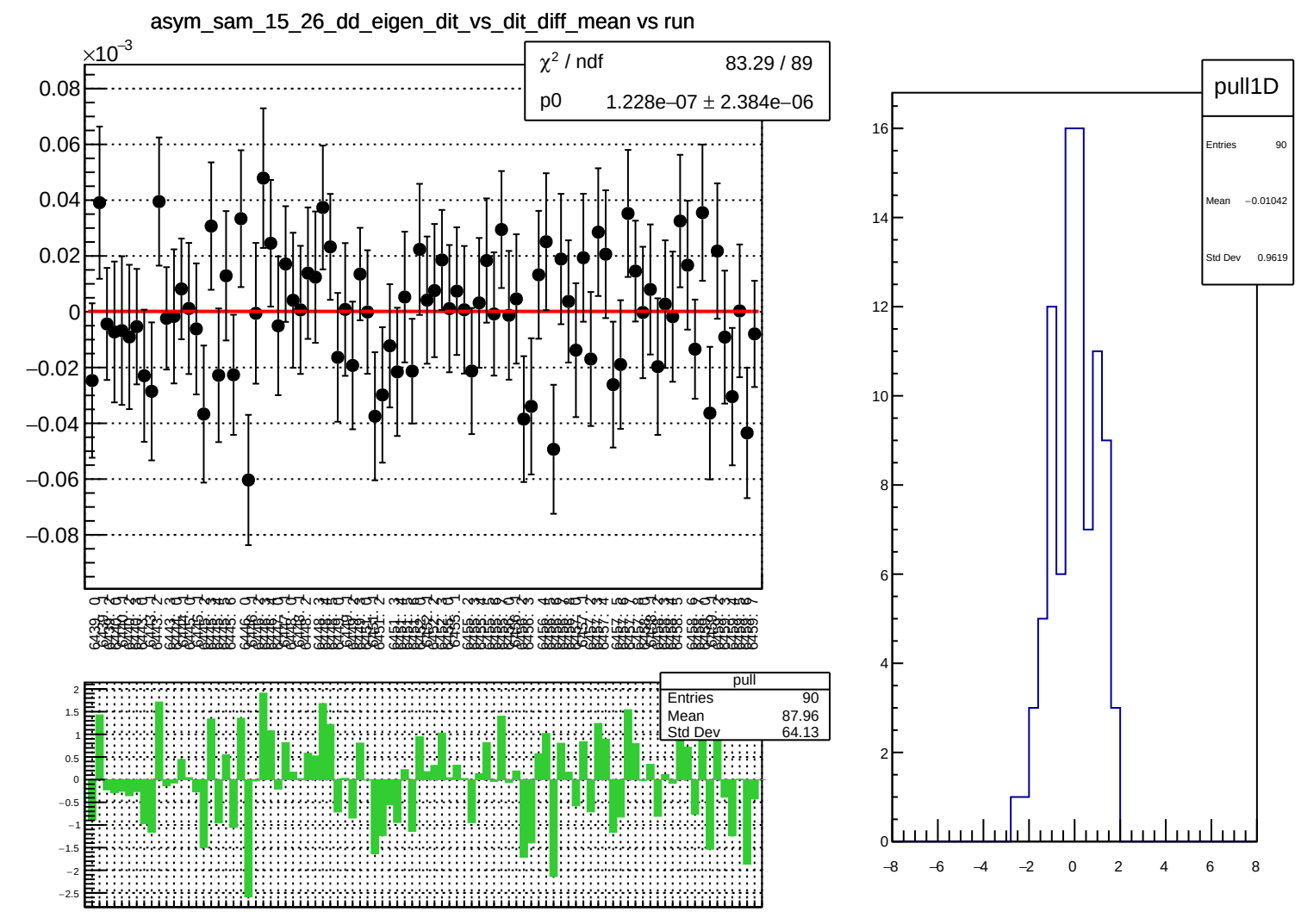

pull1D
Entries 90
Mean 0.01982
Std Dev 0.9539

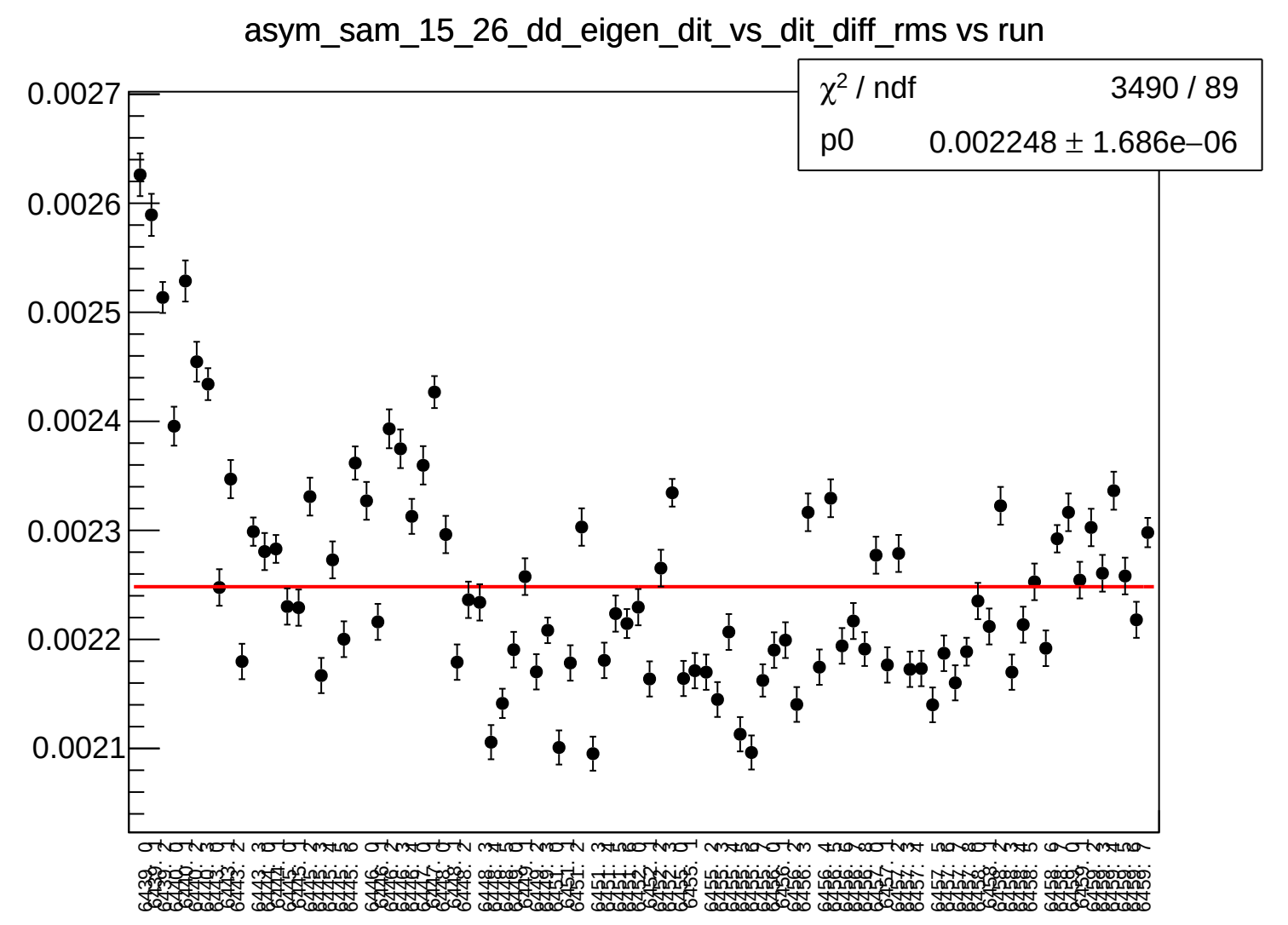

asym_sam_15_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.711e+04 / 89
p0 32.43 ± 0.02462
80
70
60
50
40
30
20

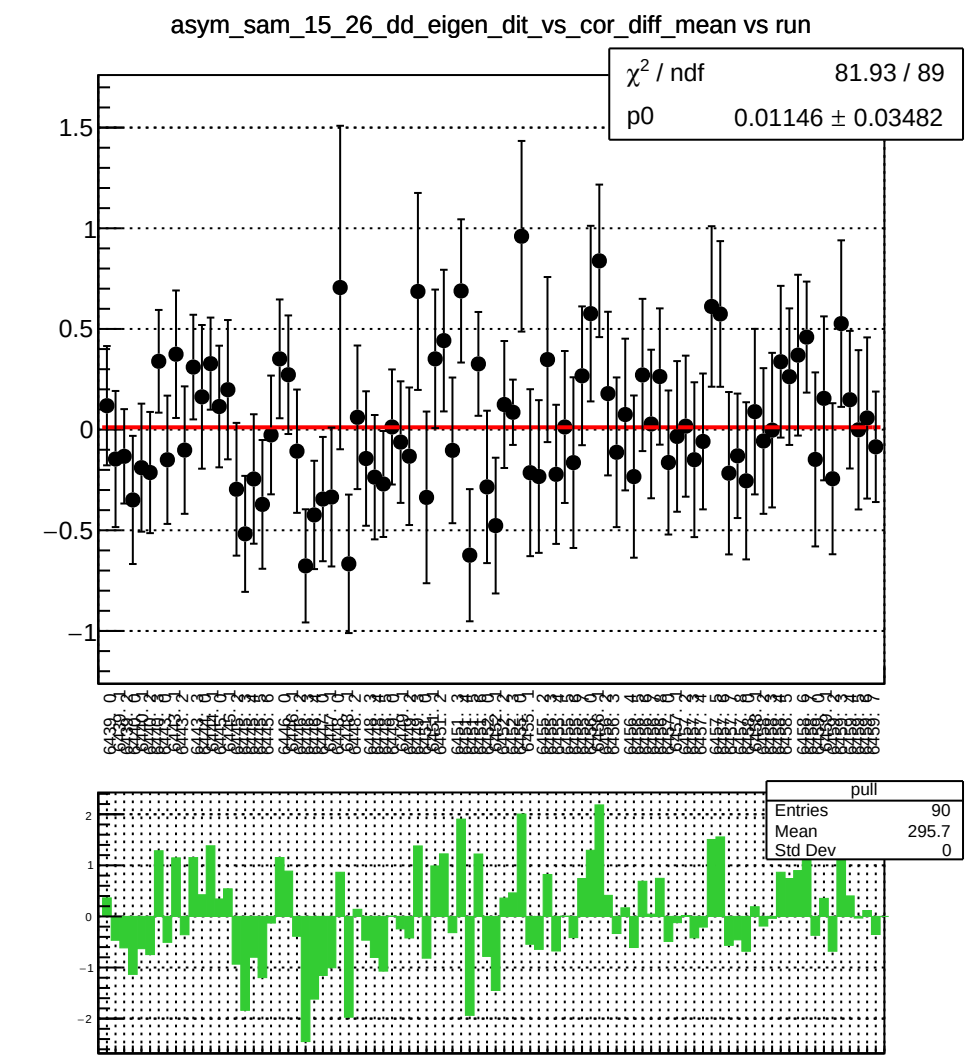

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.93 / 89
p0 0.01146 ± 0.03482
pull
Entries 90
Mean 295.7
Std Dev 0

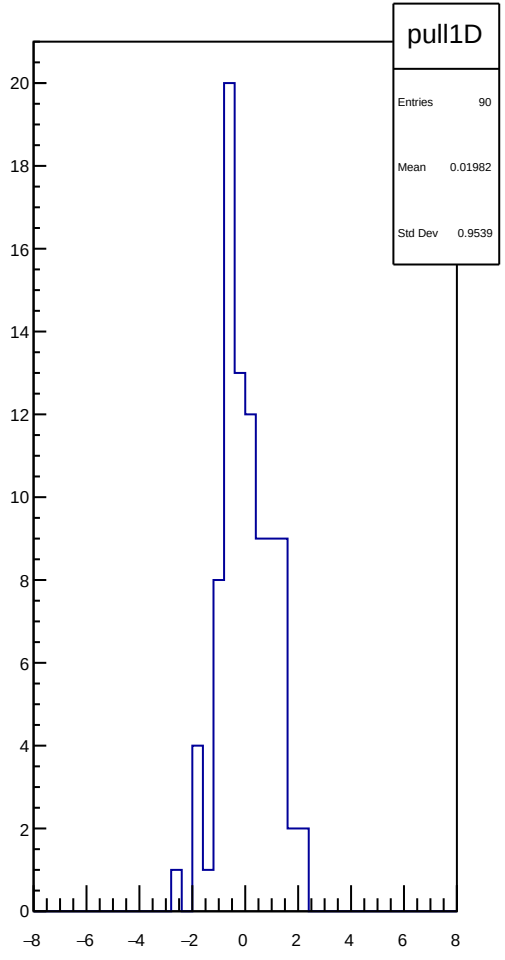

pull1D
Entries 90
Mean 0.01982
Std Dev 0.9539

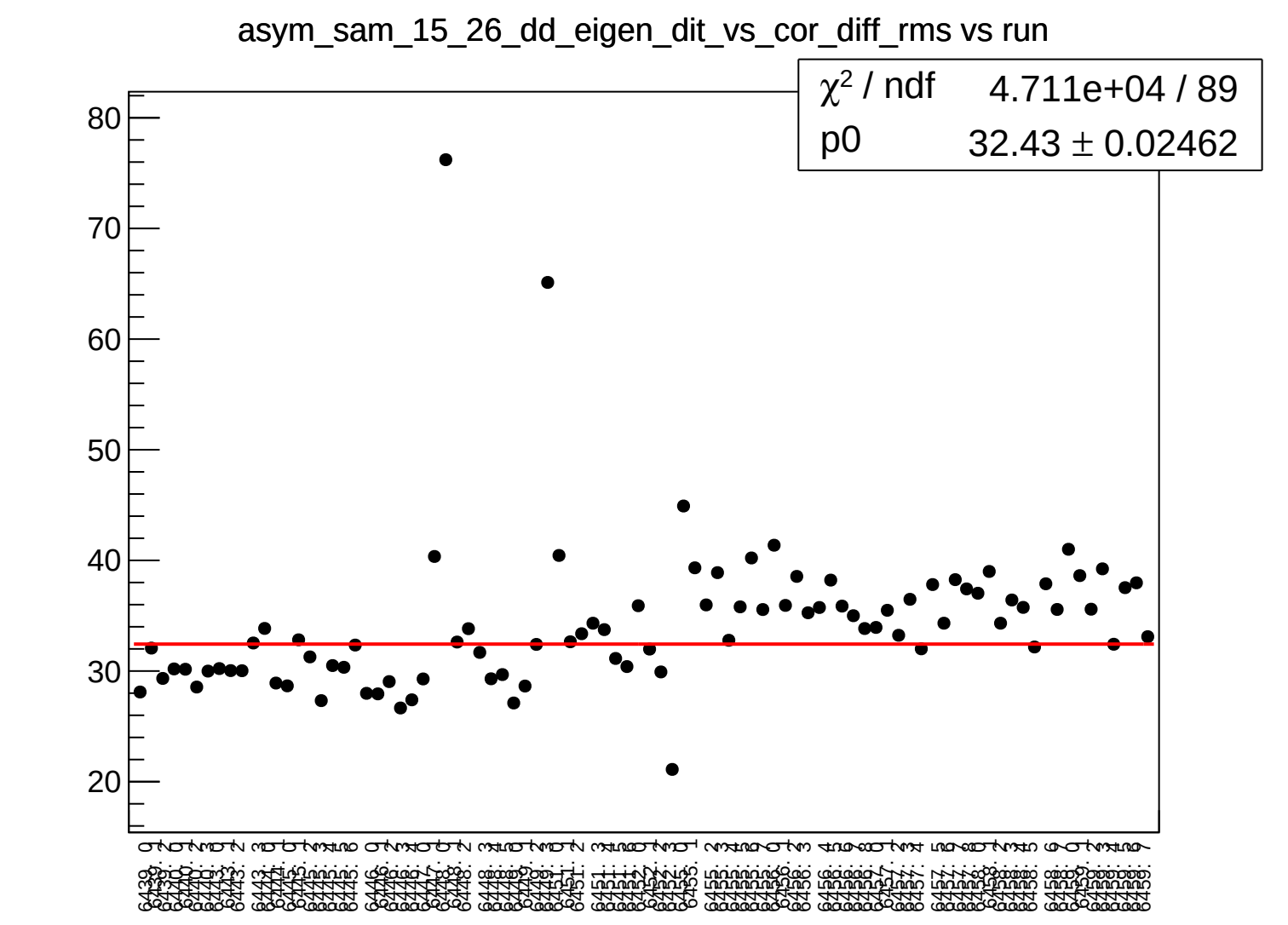

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.711e+04 / 89
p0 32.43 ± 0.02462
80
70
60
50
40
30
20

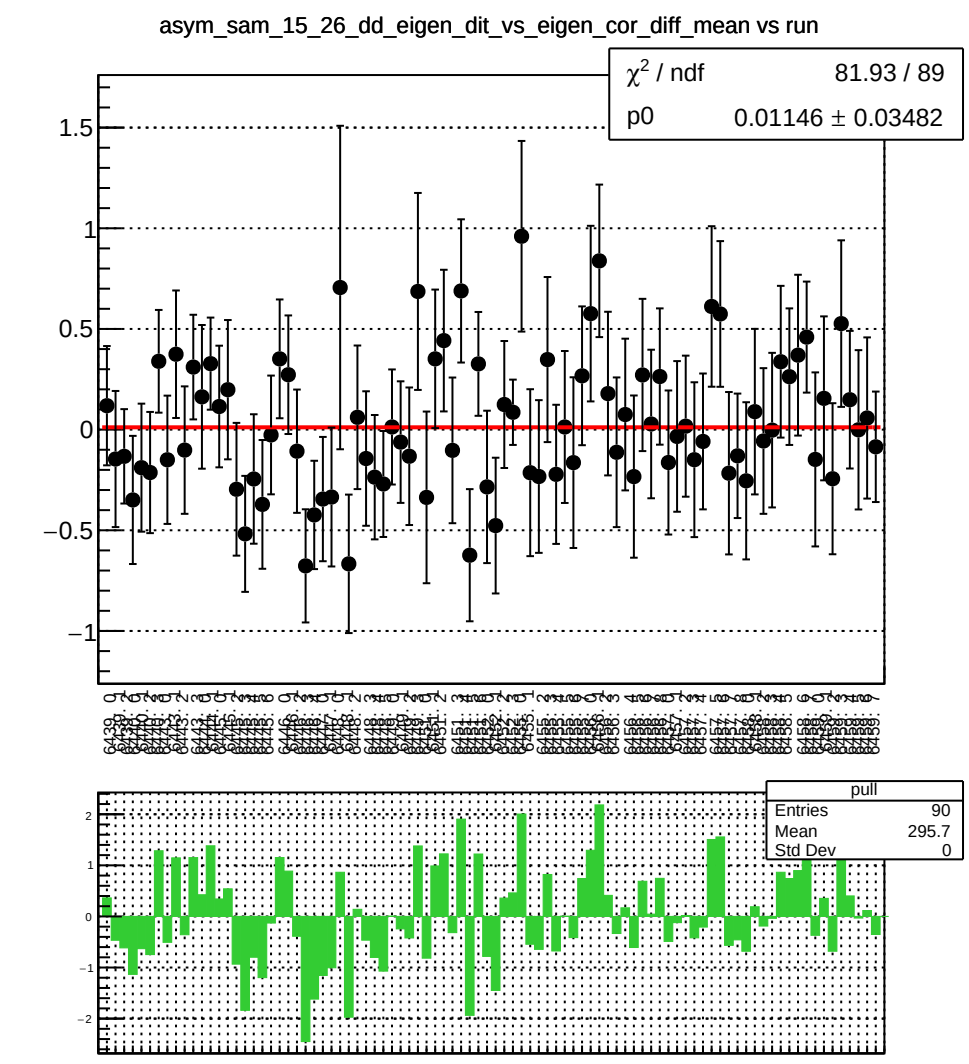

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 83.29 / 89
p0 1.228e−07 ± 2.384e−06
pull
Entries 90
Mean 87.96
Std Dev 64.13
pull1D
Entries 90
Mean −0.01042
Std Dev 0.9619

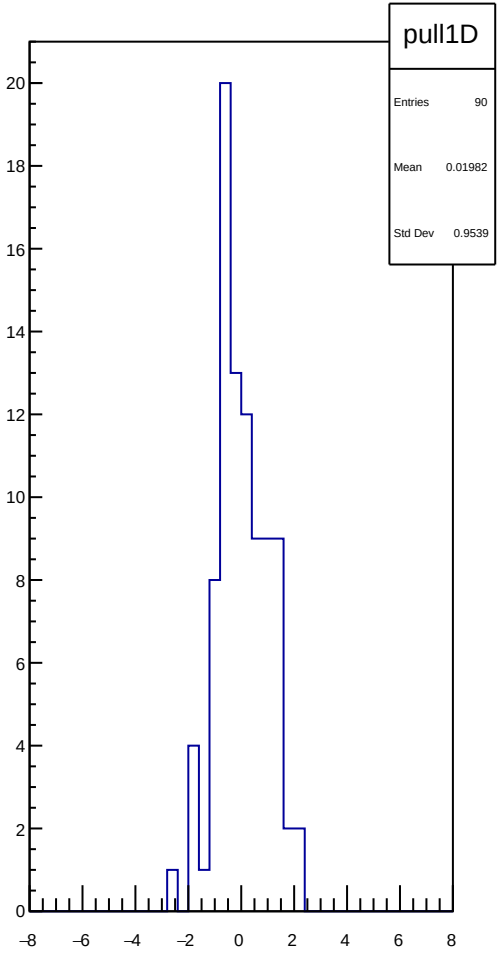

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3490 / 89
p0 0.002248 ± 1.686e−06
0.0027
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021

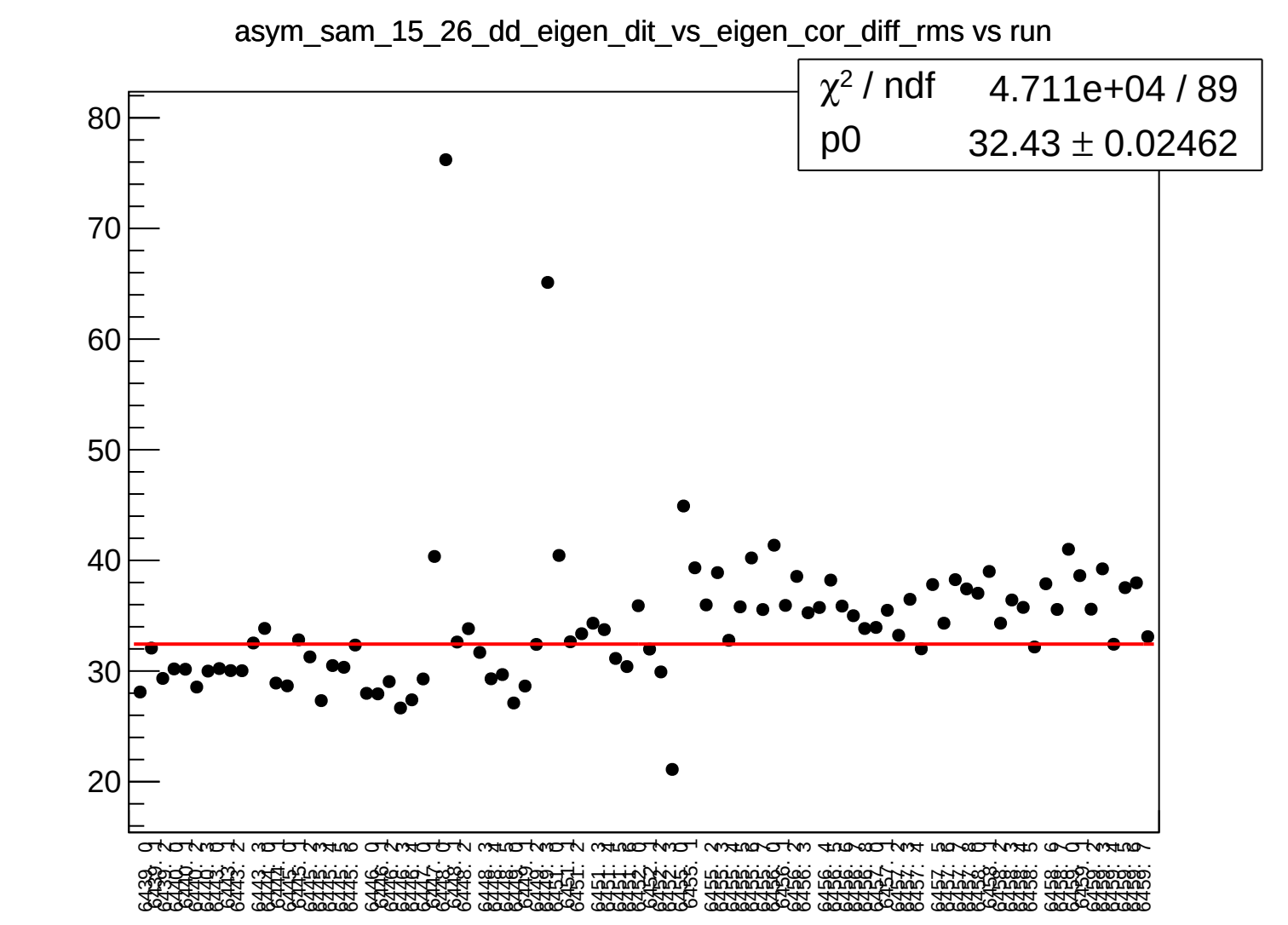

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.93 / 89
p0 0.01146 ± 0.03482
pull
Entries 90
Mean 295.7
Std Dev 0

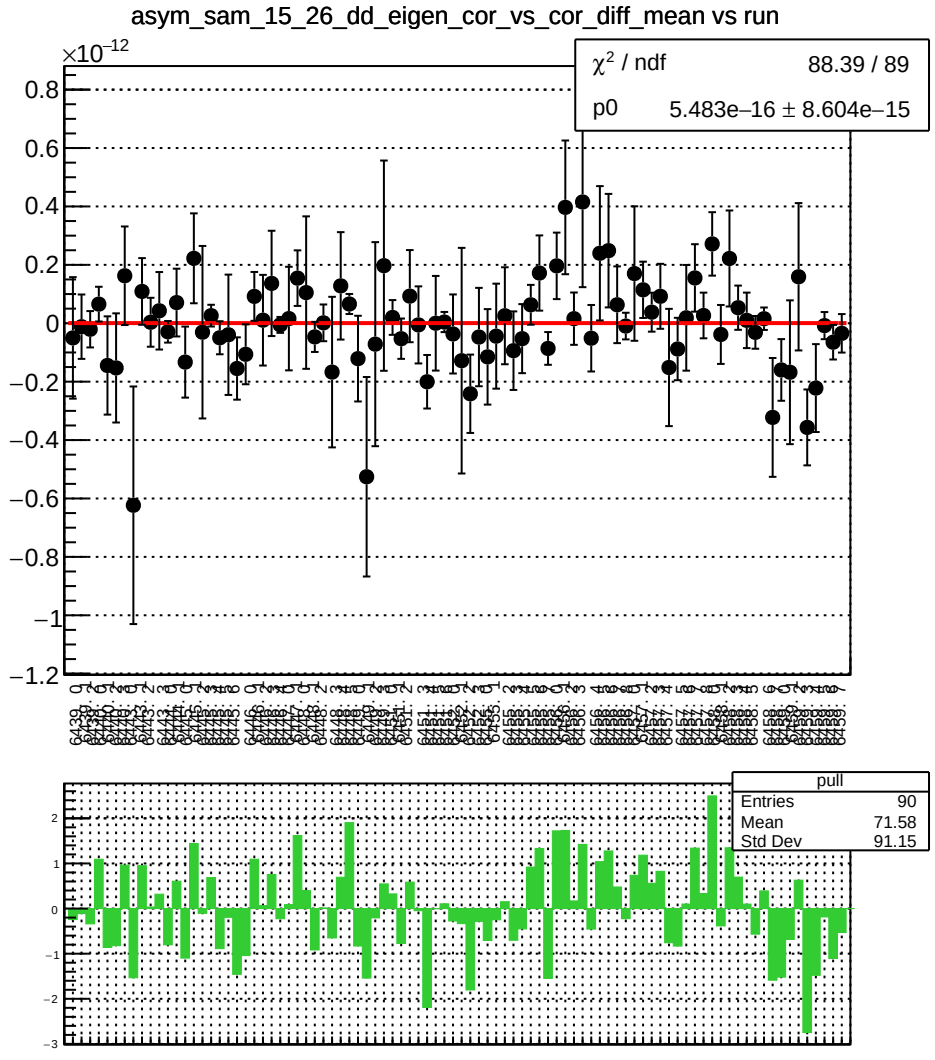

pull1D
Entries 90
Mean 0.01982
Std Dev 0.9539

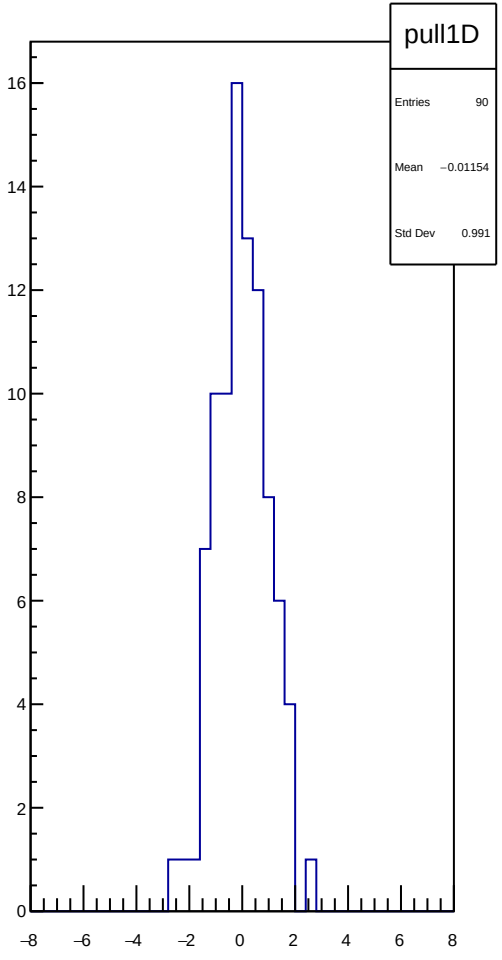

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.711e+04 / 89
p0 32.43 ± 0.02462
80
70
60
50
40
30
20

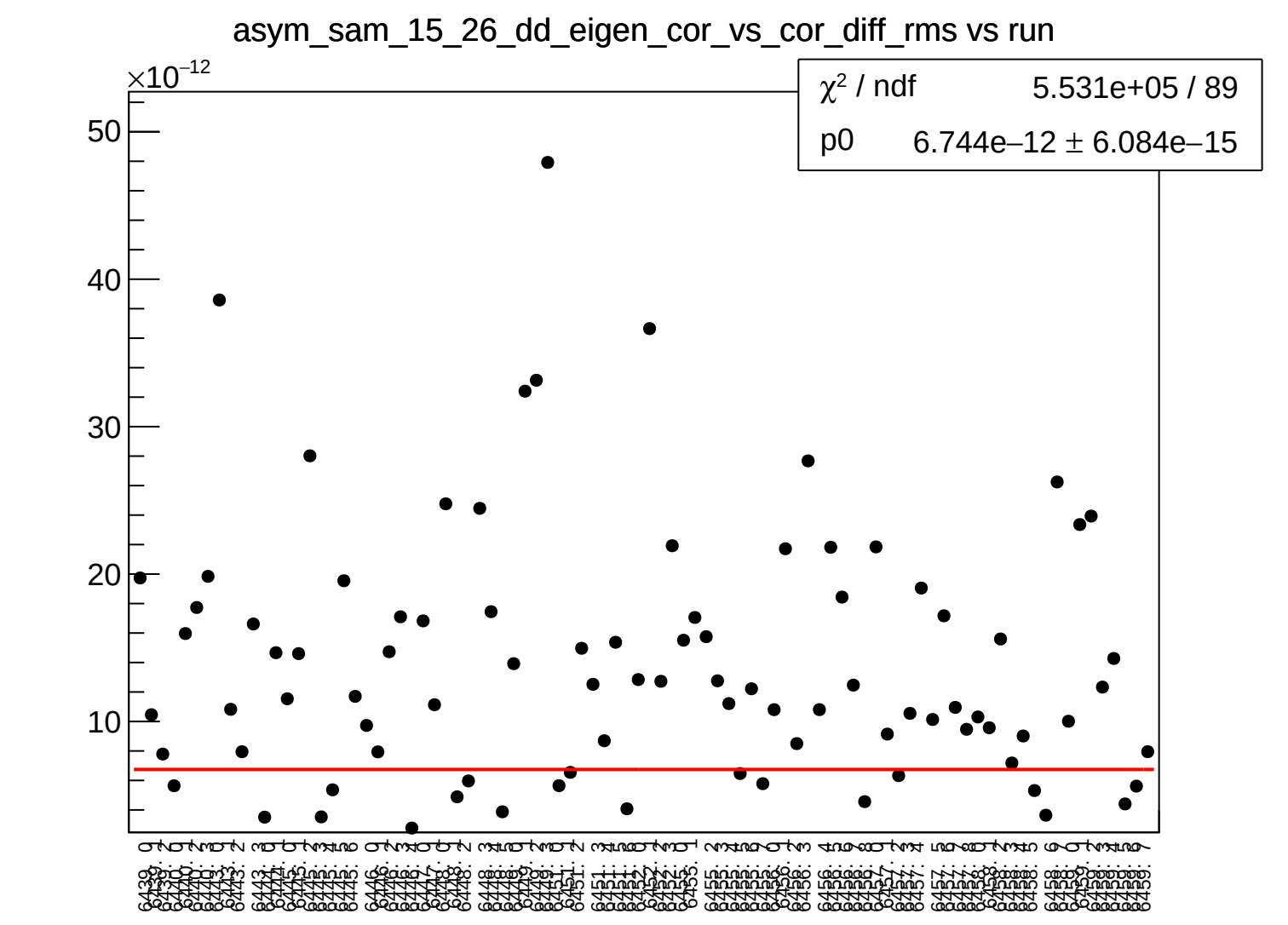

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.93 / 89
p0 0.01146 ± 0.03482
pull
Entries 90
Mean 295.7
Std Dev 0

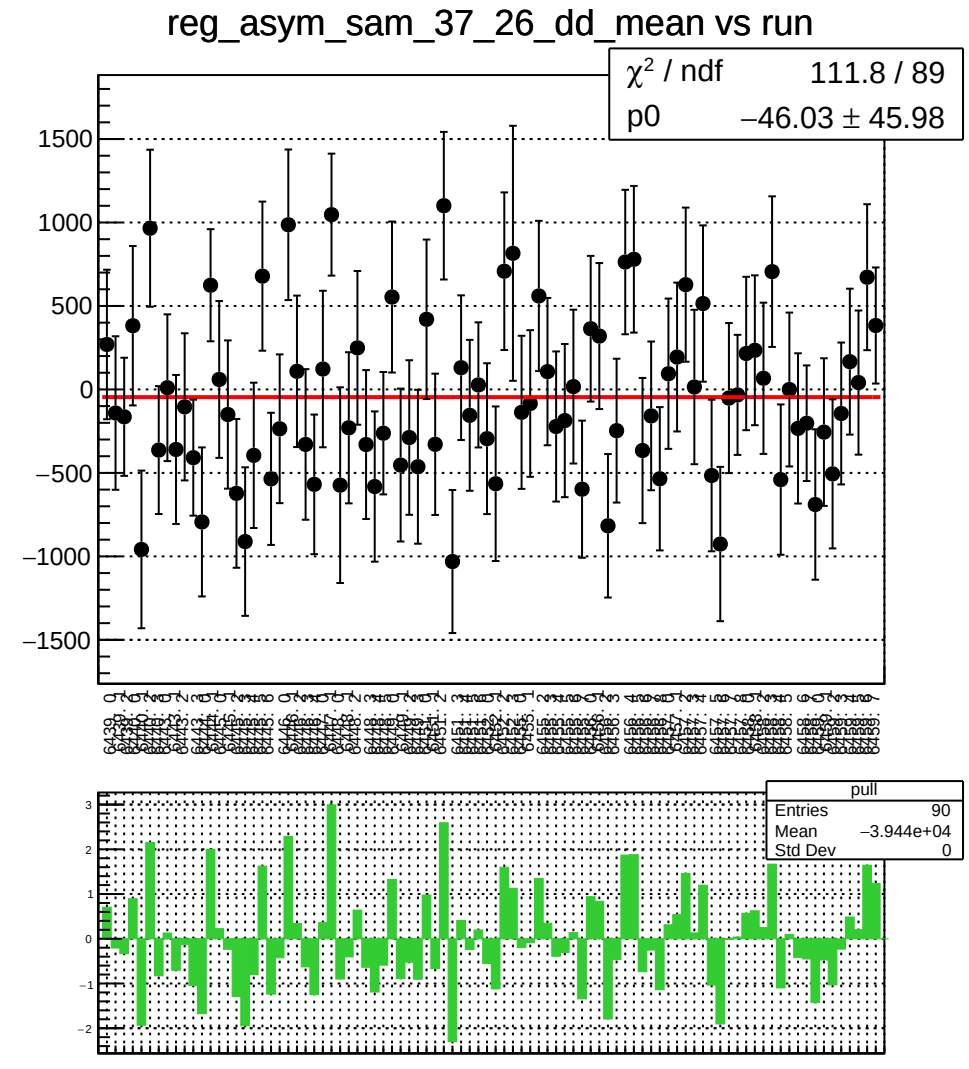

pull1D
Entries 90
Mean 0.01982
Std Dev 0.9539

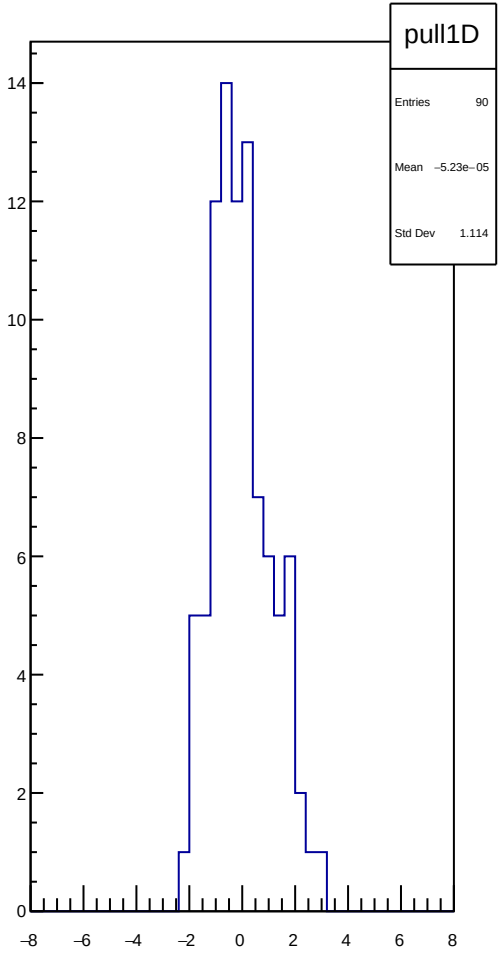

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.711e+04 / 89
p0 32.43 ± 0.02462
80
70
60
50
40
30
20

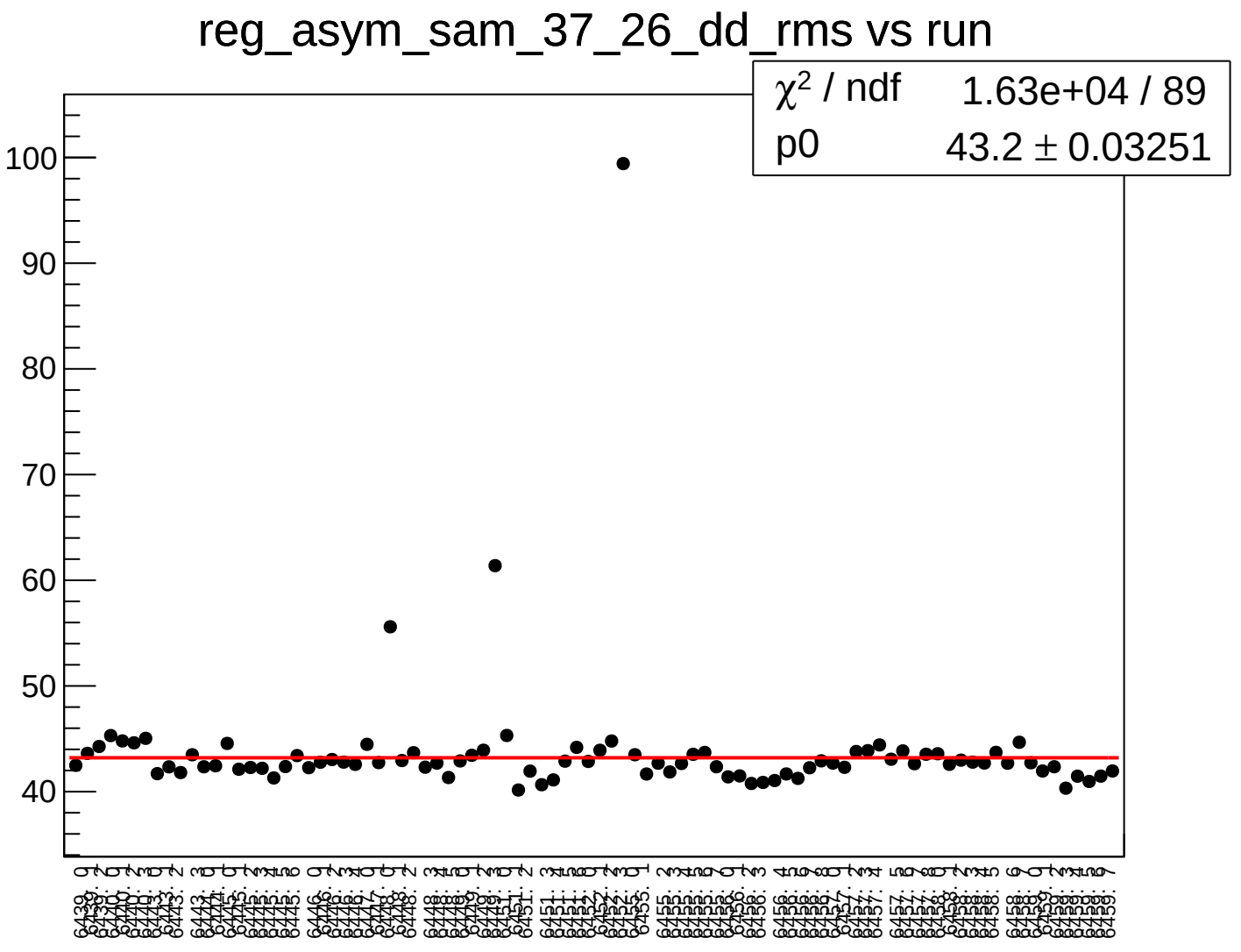

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.39 / 89
p0 5.483e−16 ± 8.604e−15
pull
Entries 90
Mean 71.58
Std Dev 91.15

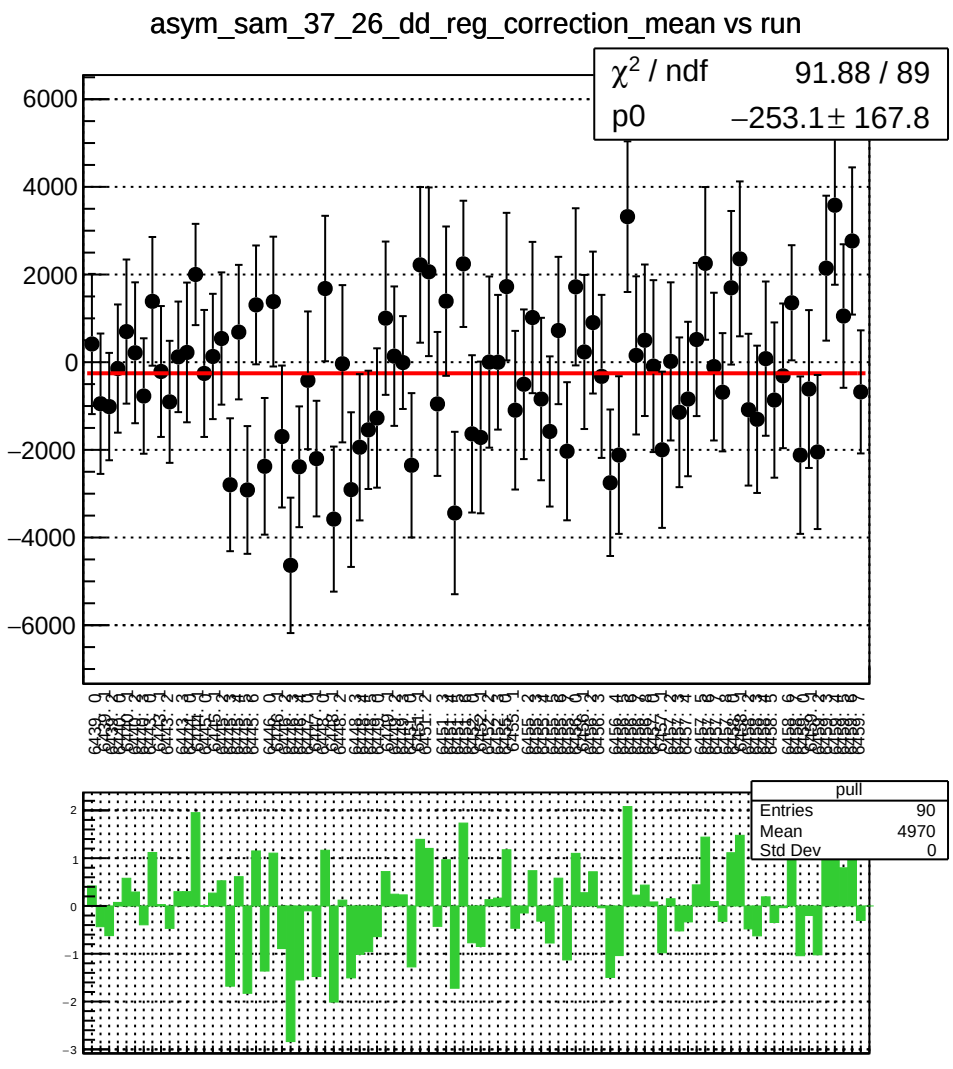

pull1D
Entries 90
Mean −0.01154
Std Dev 0.991

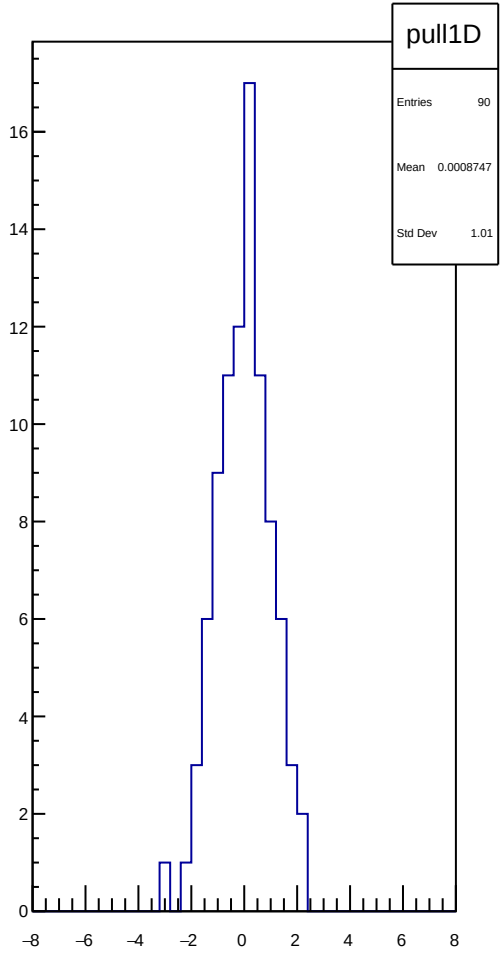

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.531e+05 / 89
p0 6.744e−12 ± 6.084e−15
50
40
30
20
10

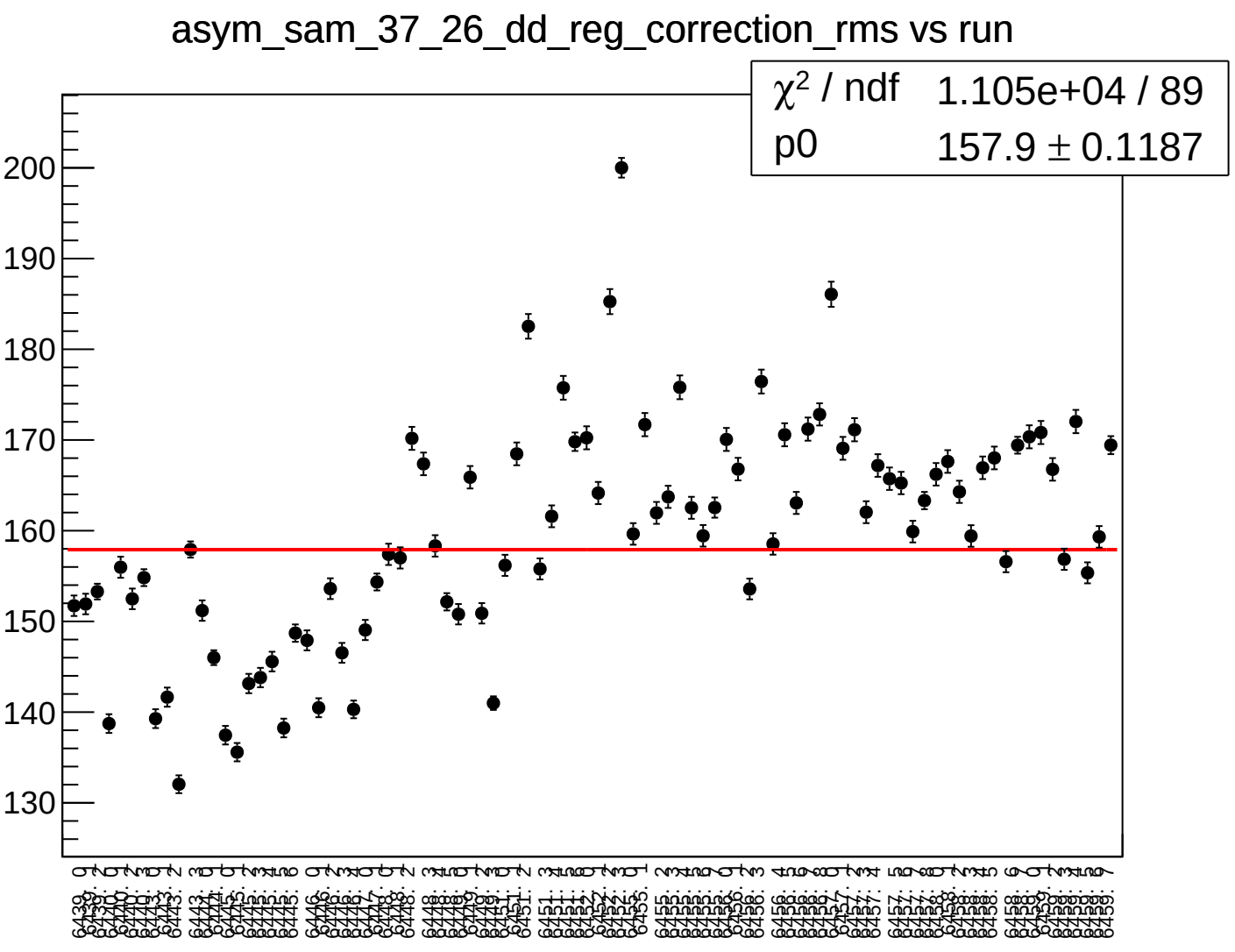

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 111.8 / 89
p0 −46.03 ± 45.98
pull
Entries 90
Mean −3.944e+04
Std Dev 0

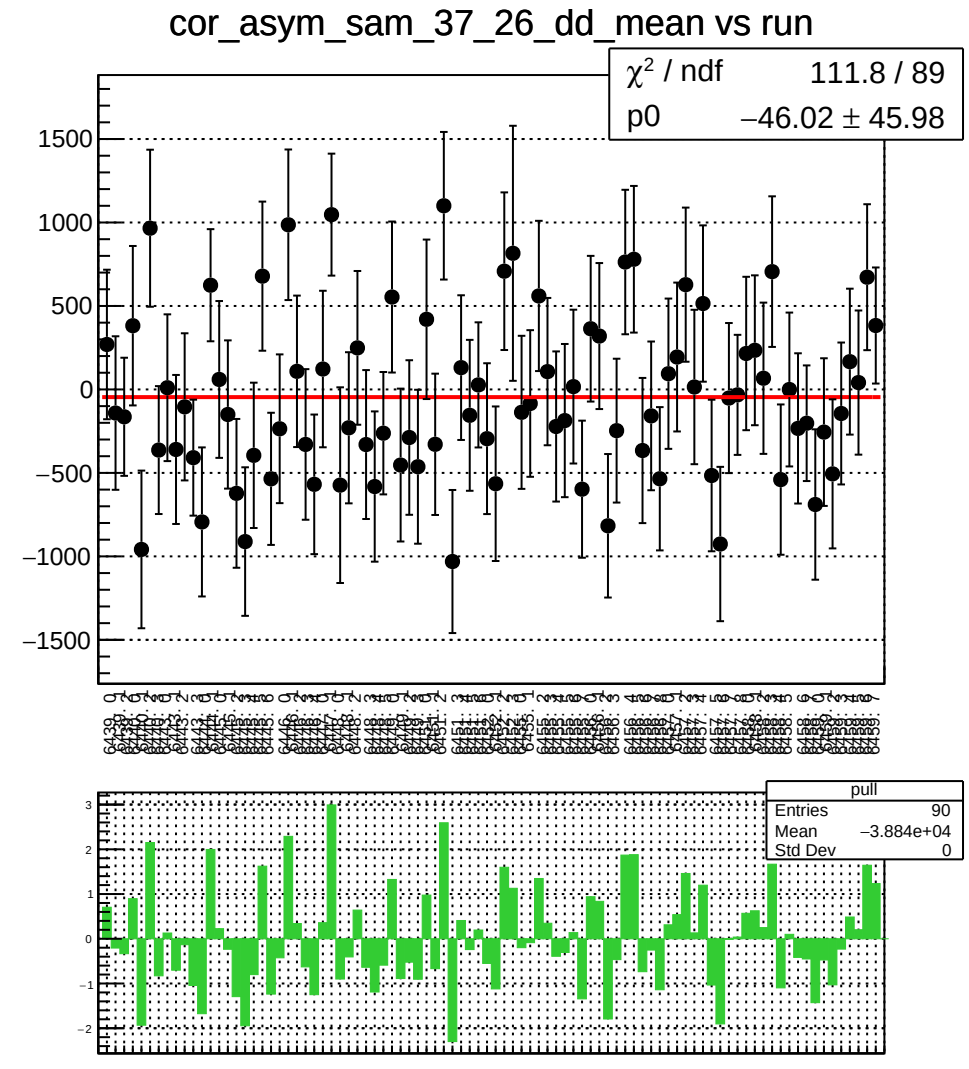

pull1D
Entries 90
Mean −5.23e−05
Std Dev 1.114

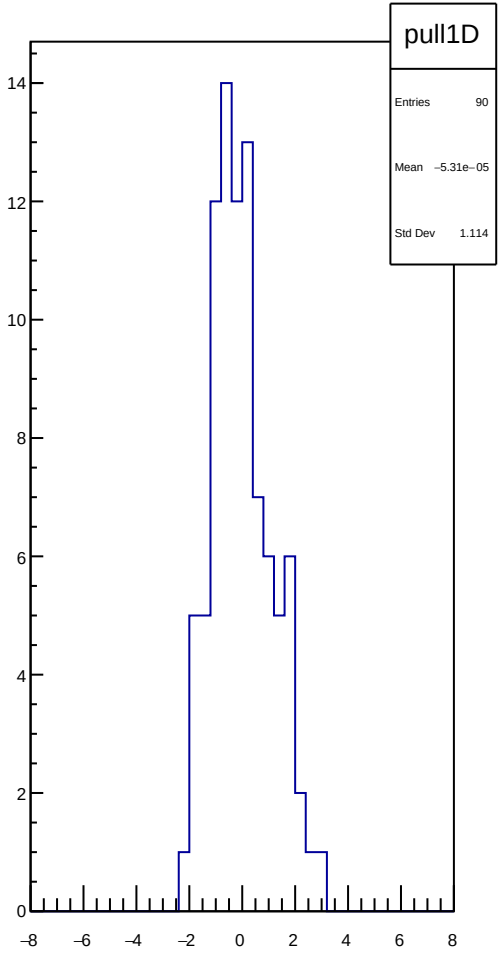

reg_asym_sam_37_26_dd_rms vs run
χ² / ndf 1.63e+04 / 89
p0 43.2 ± 0.03251
100
90
80
70
60
50
40

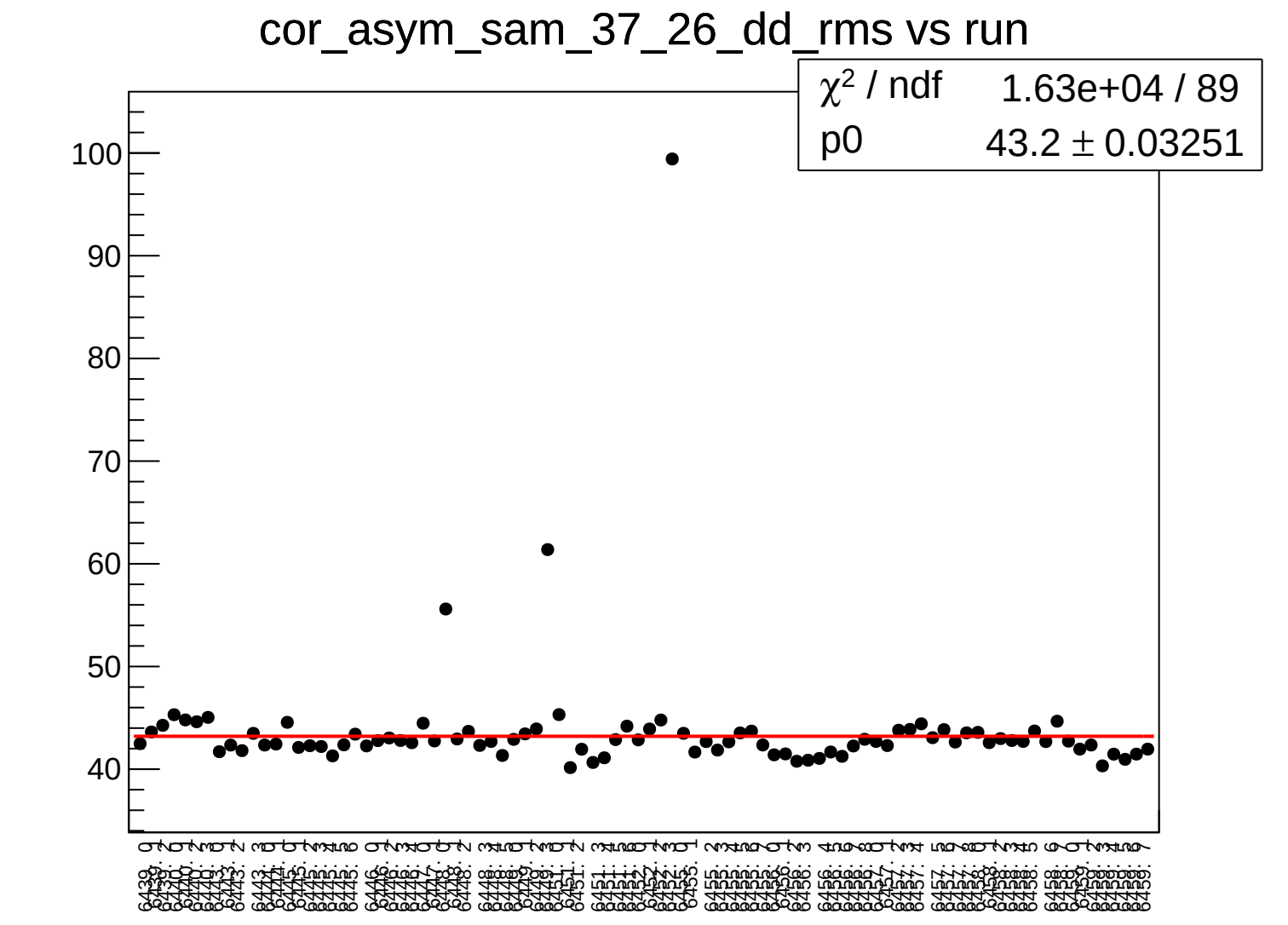

asym_sam_37_26_dd_reg_correction_mean vs run
χ² / ndf 91.88 / 89
p0 −253.1± 167.8
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 90
Mean 4970
Std Dev 0
2
1
0
−1
−2
−3

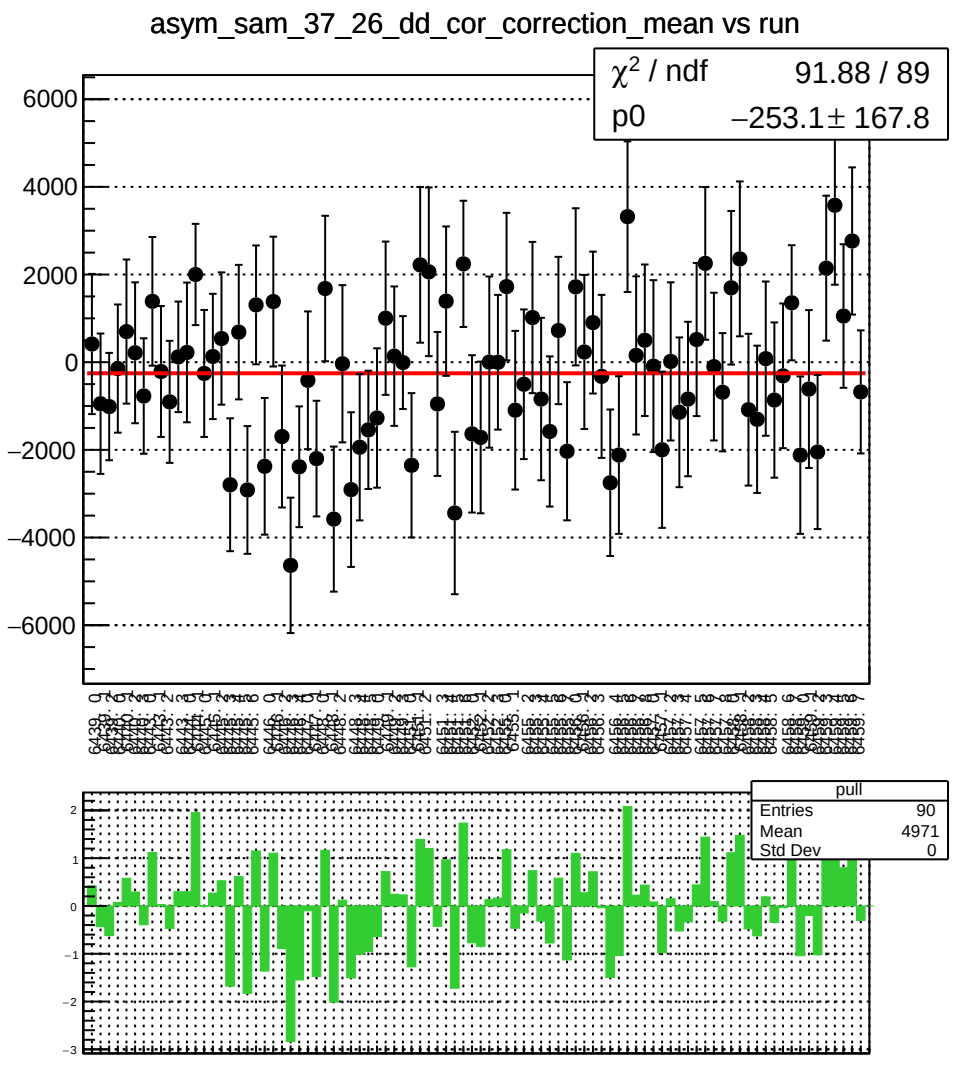

pull1D
Entries 90
Mean 0.0008747
Std Dev 1.01
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

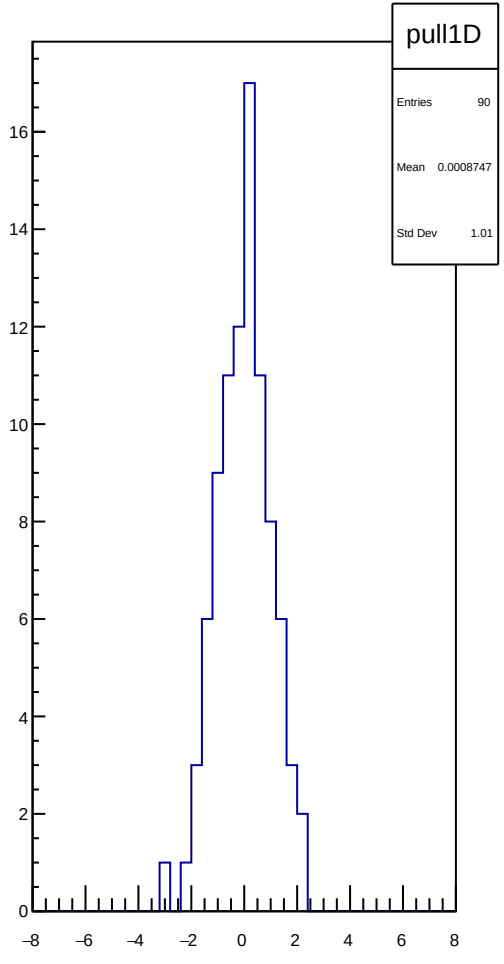

asym_sam_37_26_dd_reg_correction_rms vs run
χ² / ndf 1.105e+04 / 89
p0 157.9 ± 0.1187
200
190
180
170
160
150
140
130

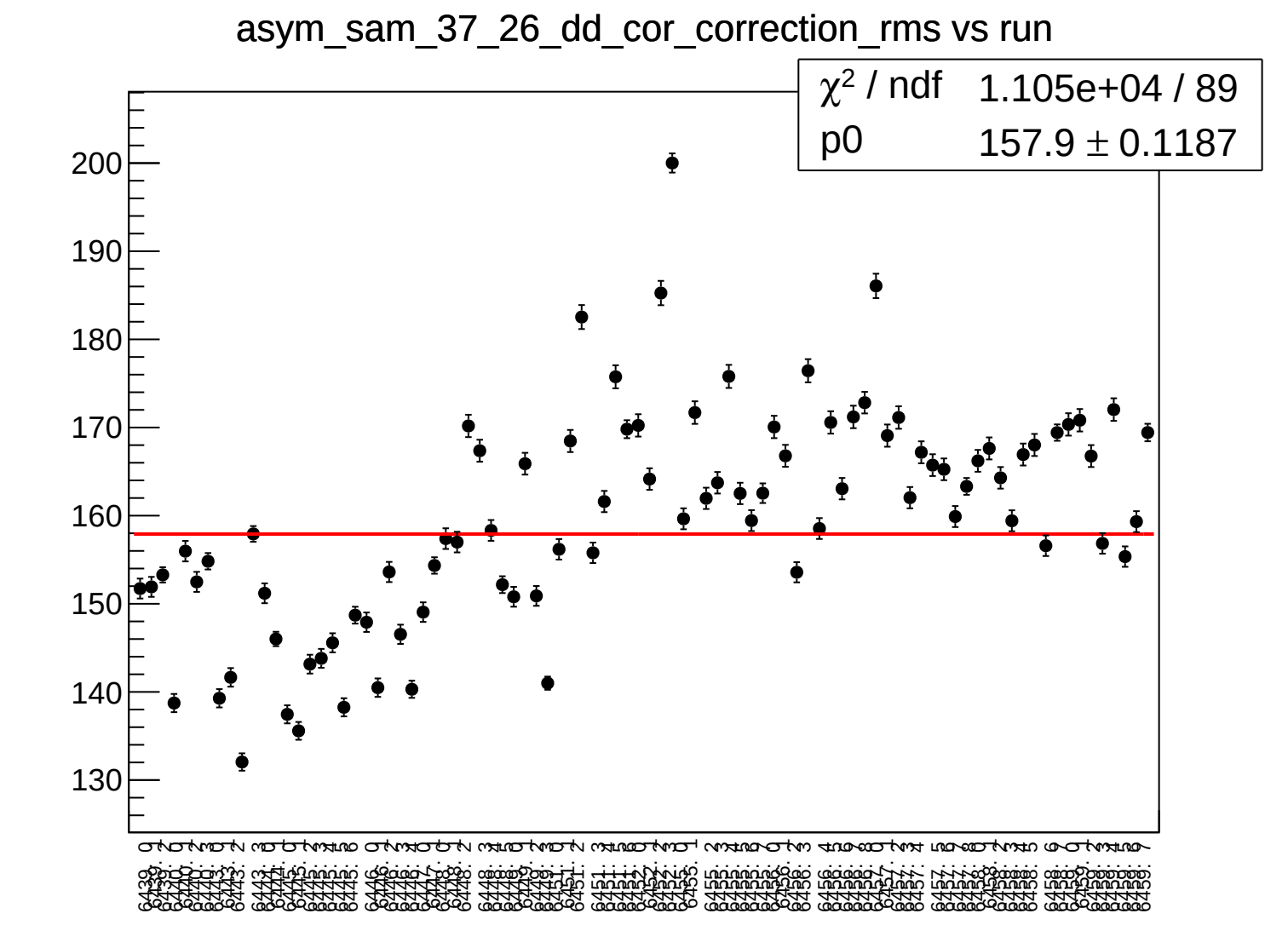

cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 111.8 / 89
p0 −46.02 ± 45.98
pull
Entries 90
Mean −3.884e+04
Std Dev 0

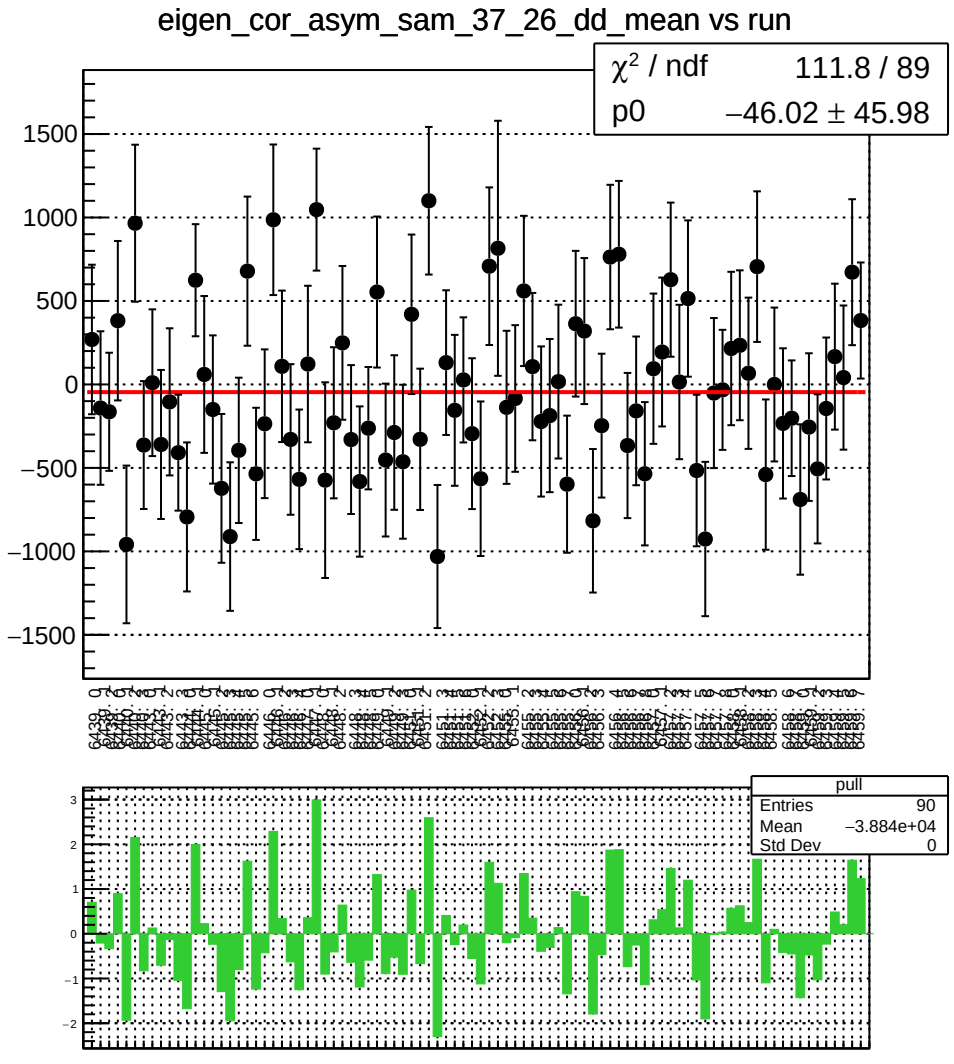

pull1D
Entries 90
Mean −5.31e−05
Std Dev 1.114

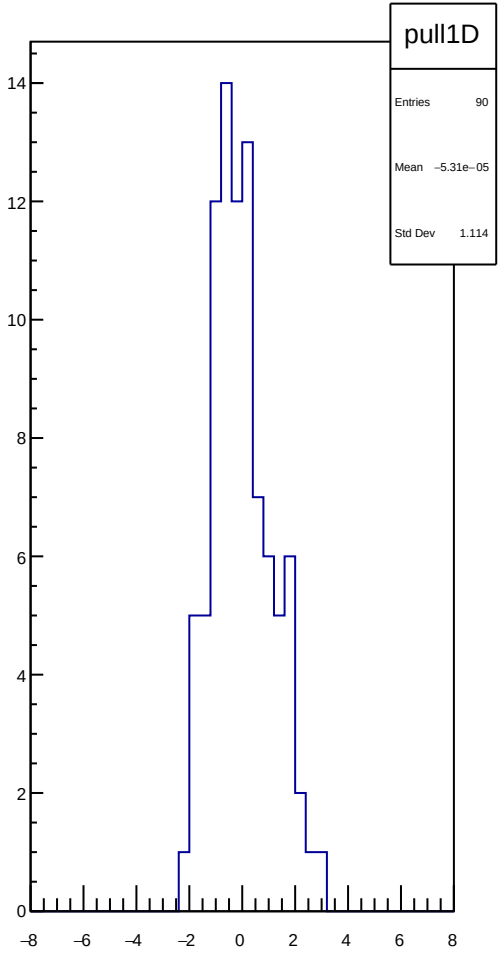

cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 1.63e+04 / 89
p0 43.2 ± 0.03251
100
90
80
70
60
50
40

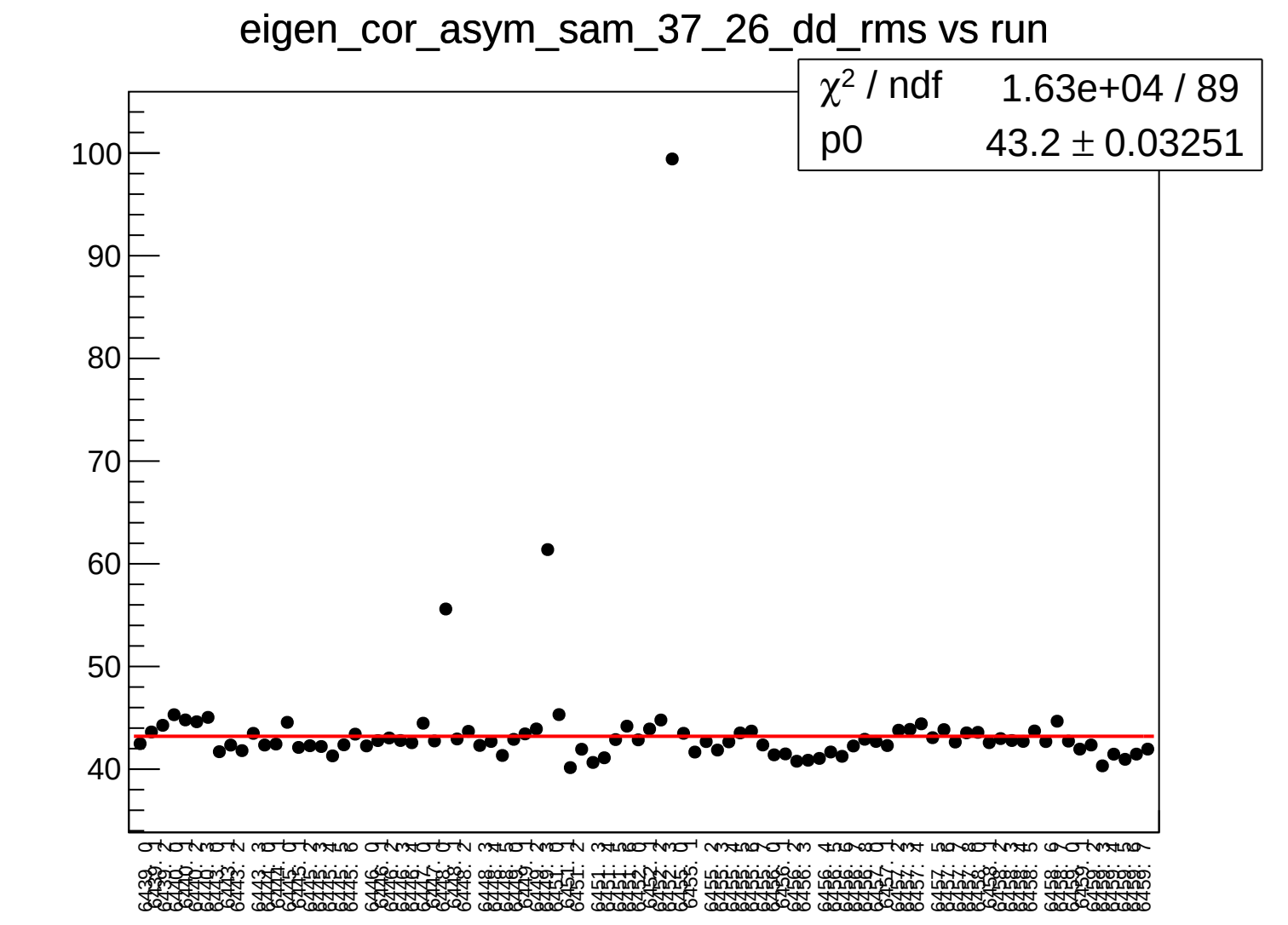

asym_sam_37_26_dd_cor_correction_mean vs run
χ² / ndf 91.88 / 89
p0 −253.1± 167.8
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 90
Mean 4971
Std Dev 0
2
1
0
−1
−2
−3

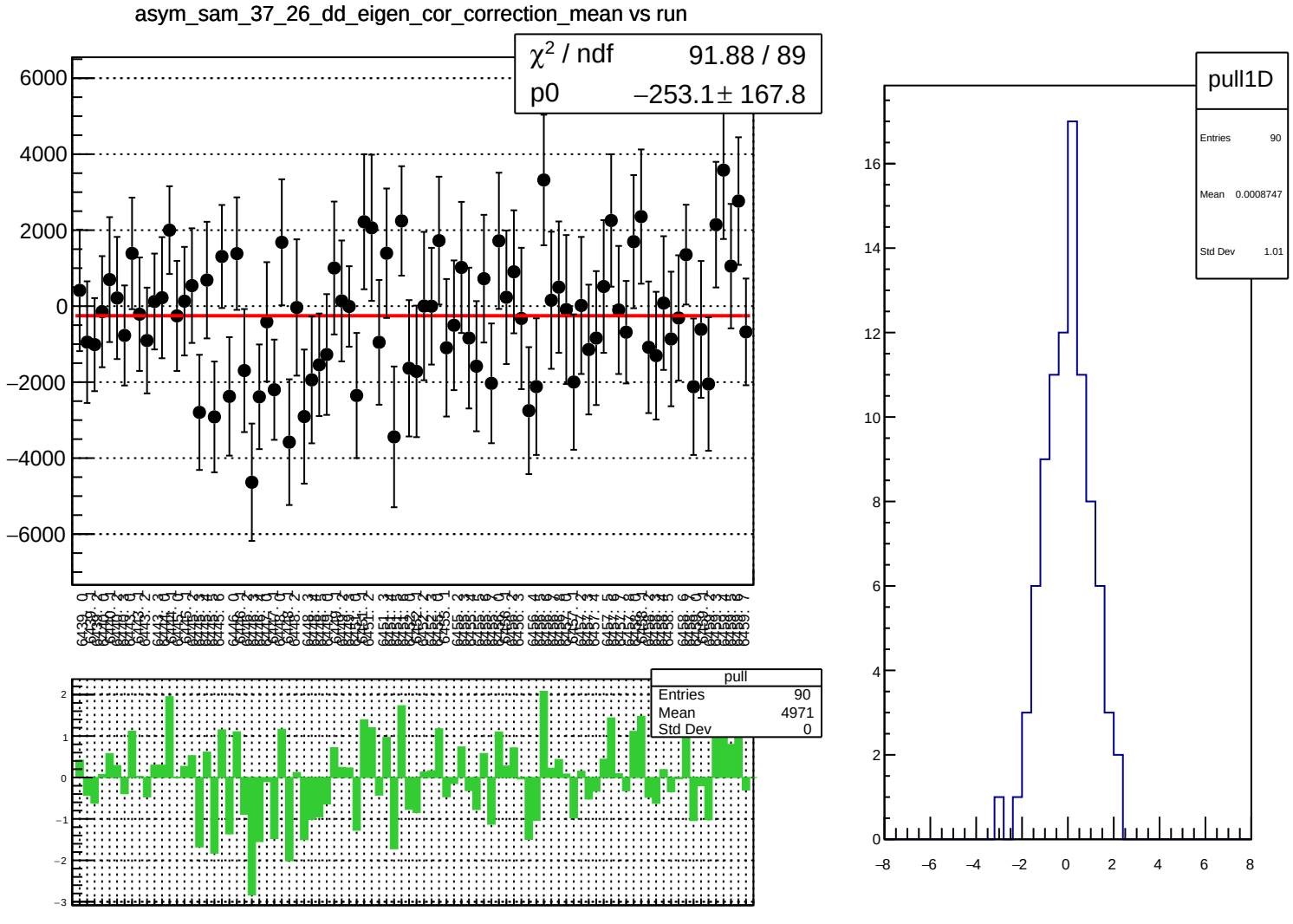

pull1D
Entries 90
Mean 0.0008747
Std Dev 1.01
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

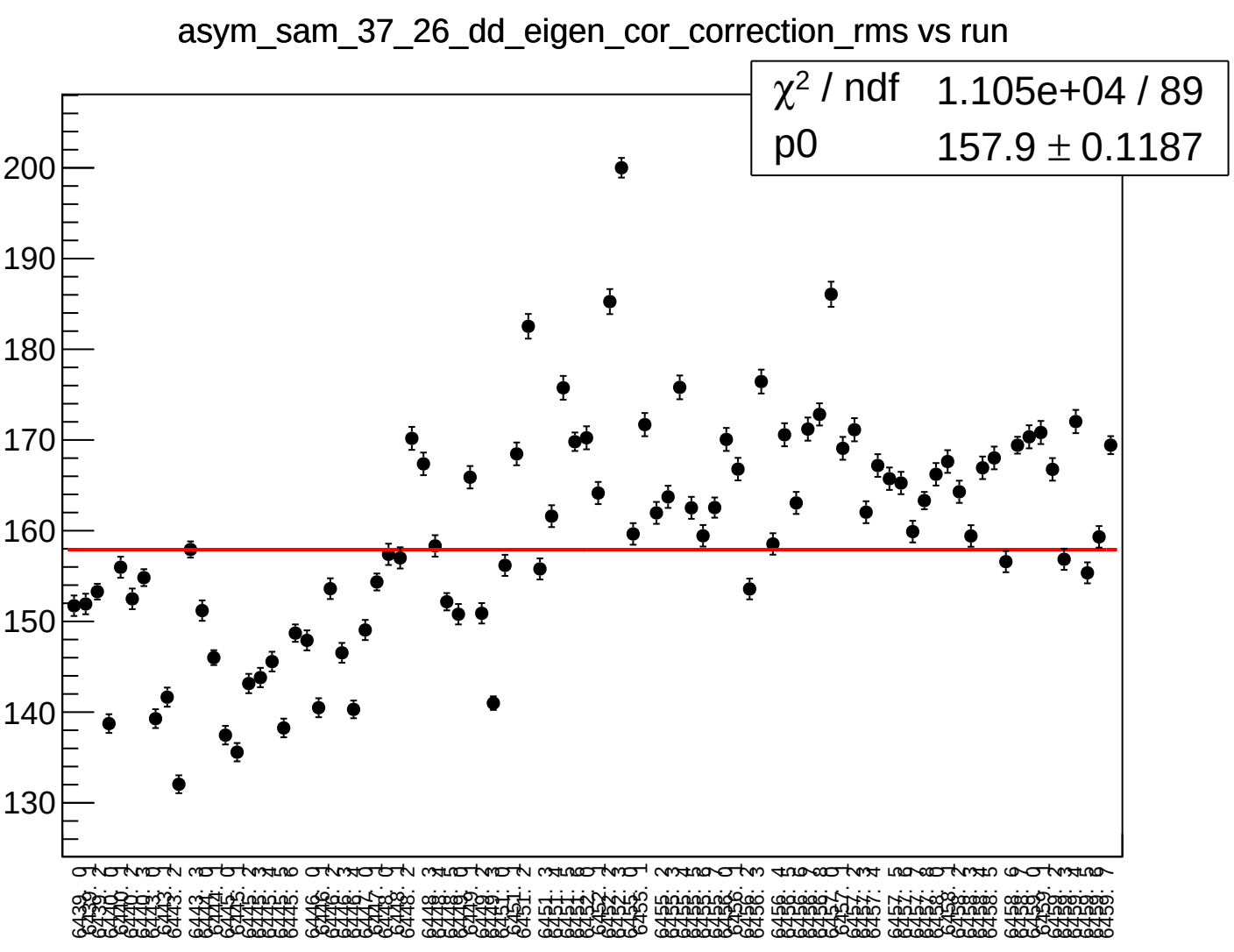

asym_sam_37_26_dd_cor_correction_rms vs run
χ^2 / ndf 1.105e+04 / 89
p0 157.9 ± 0.1187
200
190
180
170
160
150
140
130

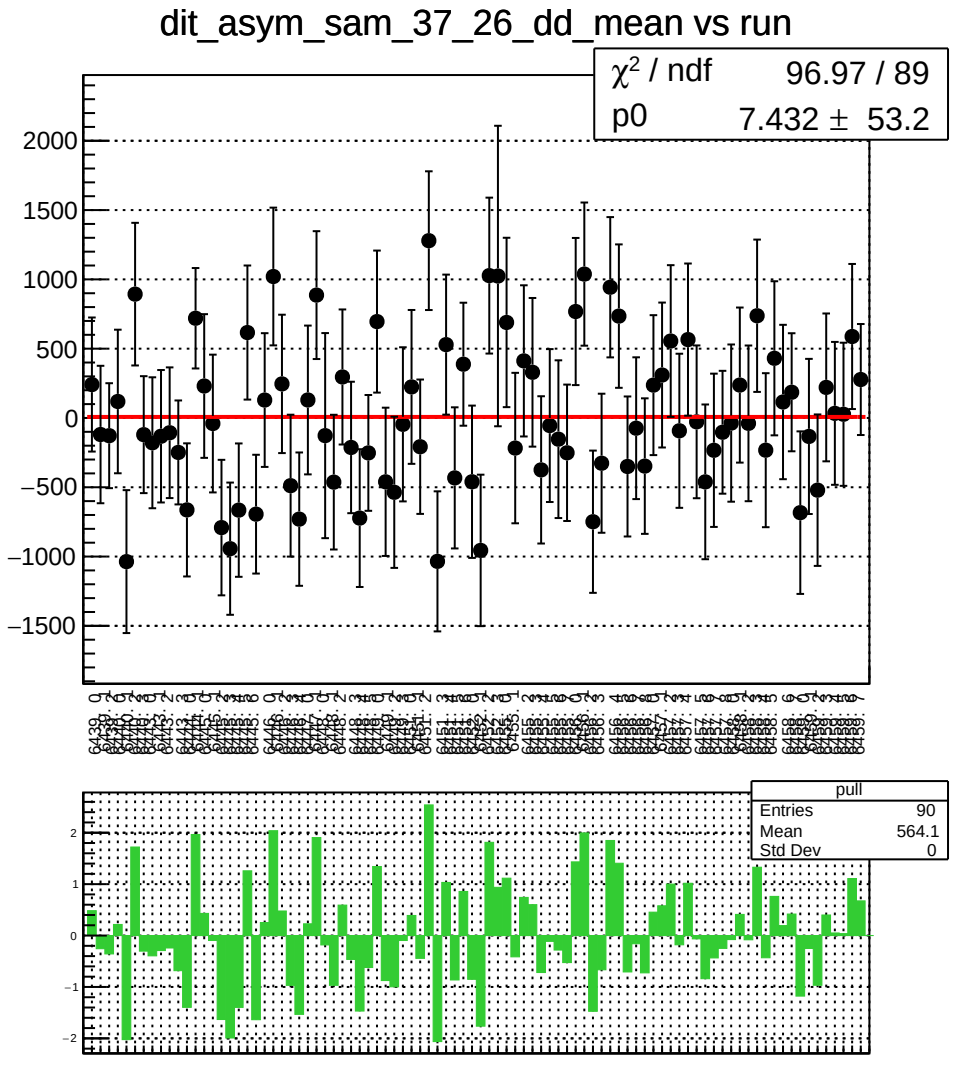

eigen_cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 111.8 / 89
p0 −46.02 ± 45.98
pull
Entries 90
Mean −3.884e+04
Std Dev 0

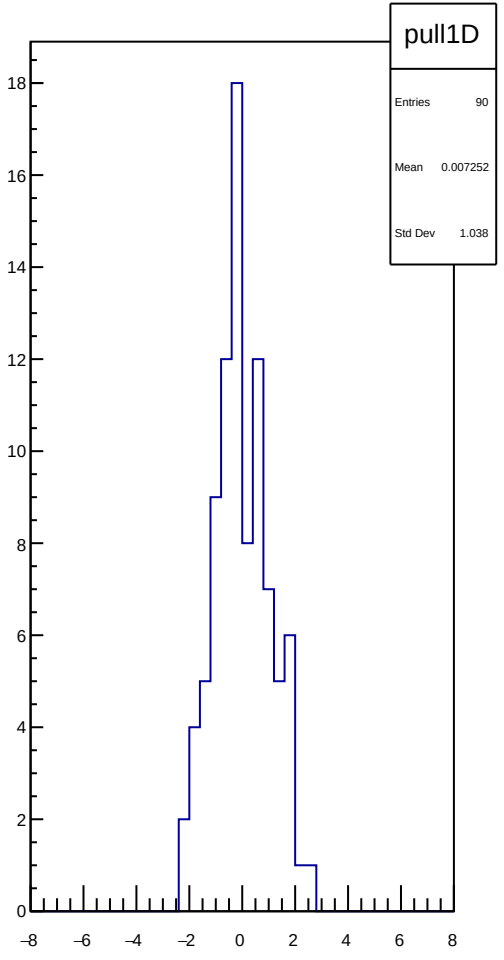

pull1D
Entries 90
Mean −5.31e−05
Std Dev 1.114

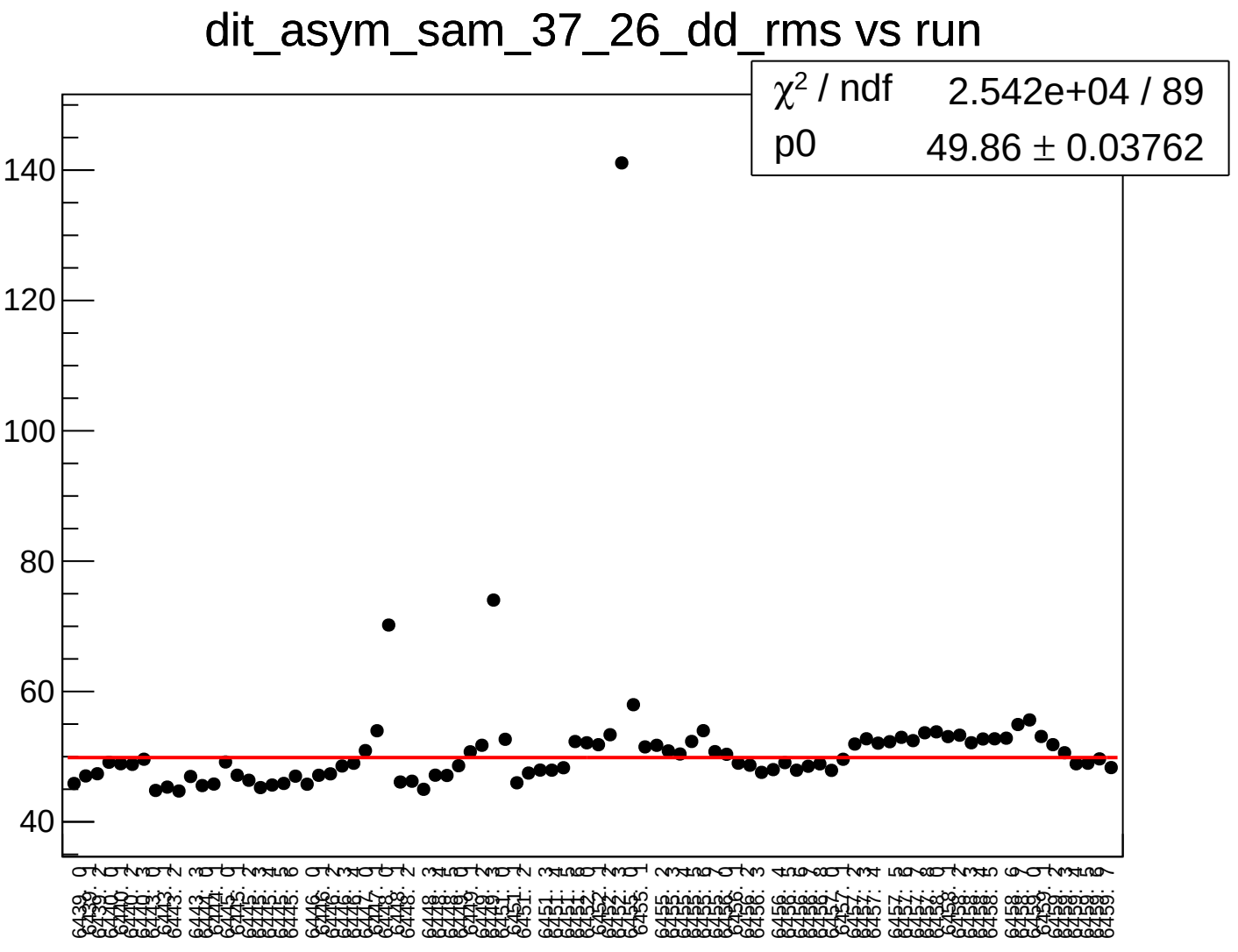

eigen_cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 1.63e+04 / 89
p0 43.2 ± 0.03251
100
90
80
70
60
50
40

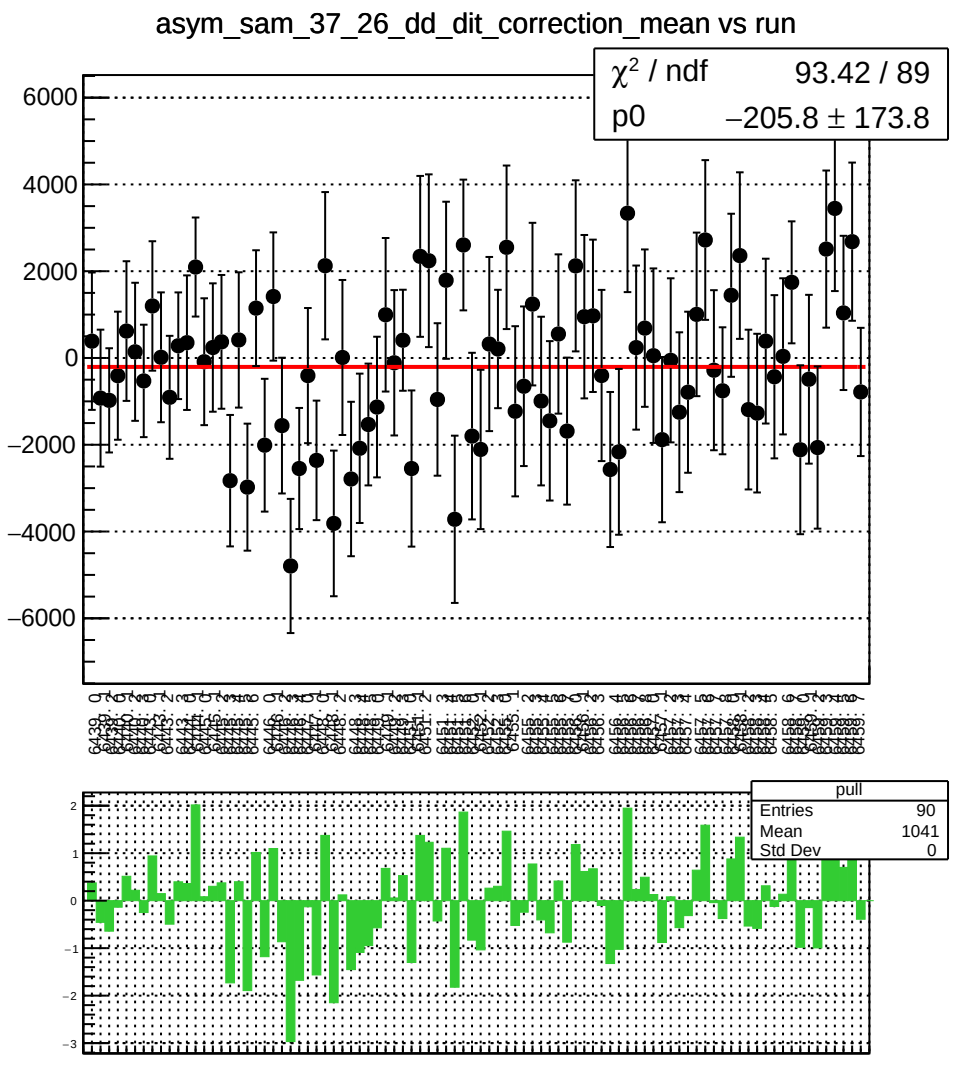

asym_sam_37_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 91.88 / 89
p0 −253.1± 167.8
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 90
Mean 4971
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 90
Mean 0.0008747
Std Dev 1.01
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

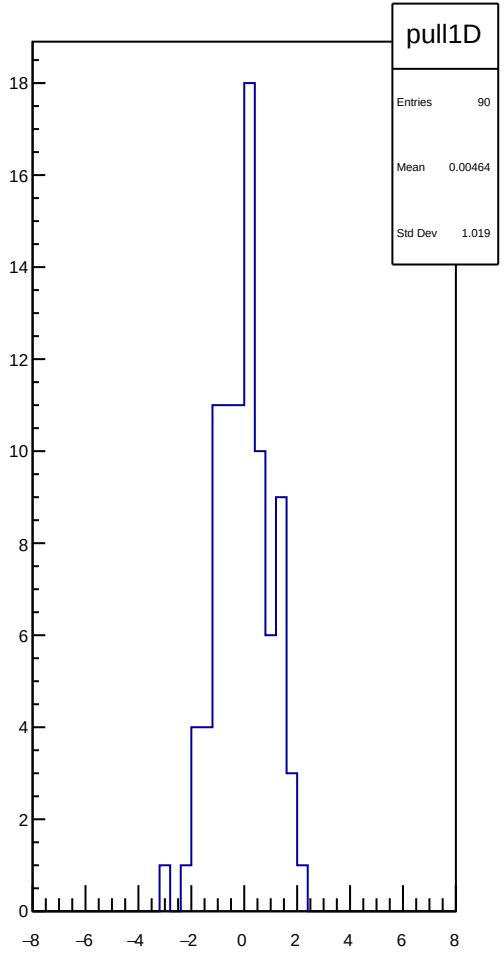

asym_sam_37_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.105e+04 / 89
p0 157.9 ± 0.1187
200
190
180
170
160
150
140
130

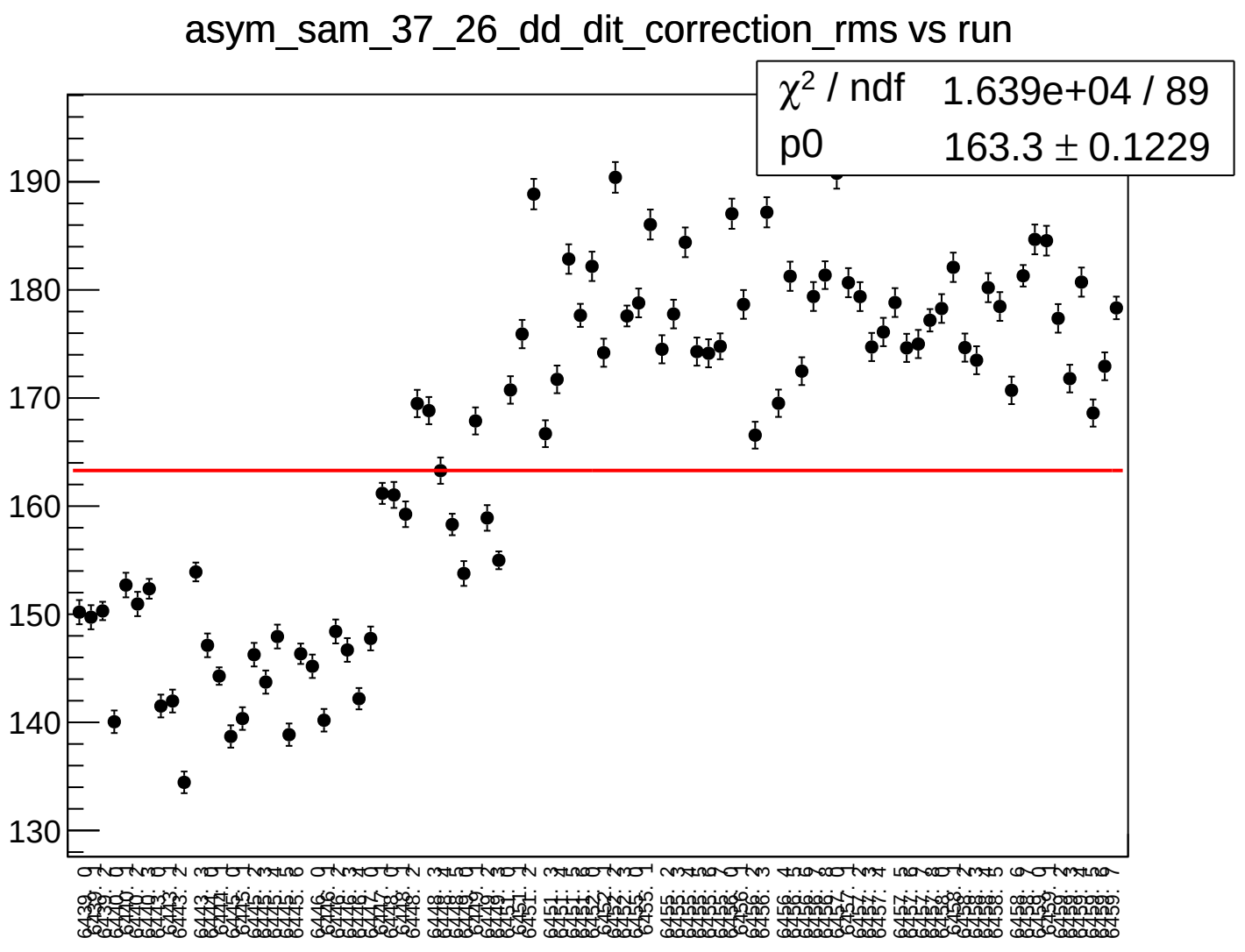

dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 96.97 / 89
p0 7.432 ± 53.2
pull
Entries 90
Mean 564.1
Std Dev 0

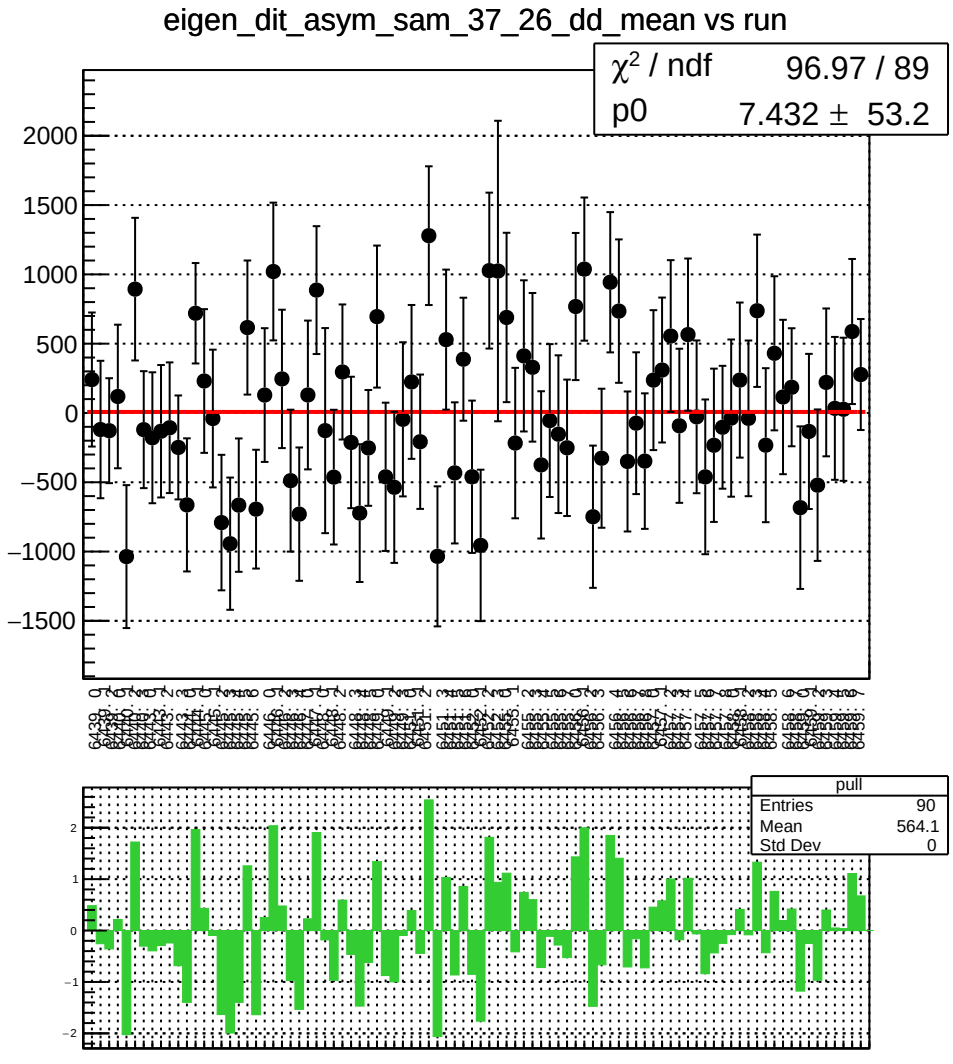

pull1D
Entries 90
Mean 0.007252
Std Dev 1.038

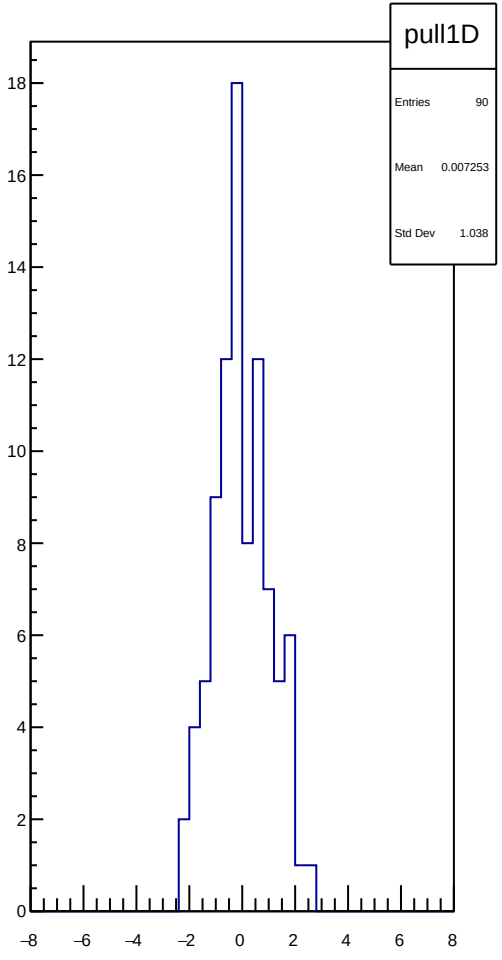

dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 2.542e+04 / 89
p0 49.86 ± 0.03762
140
120
100
80
60
40

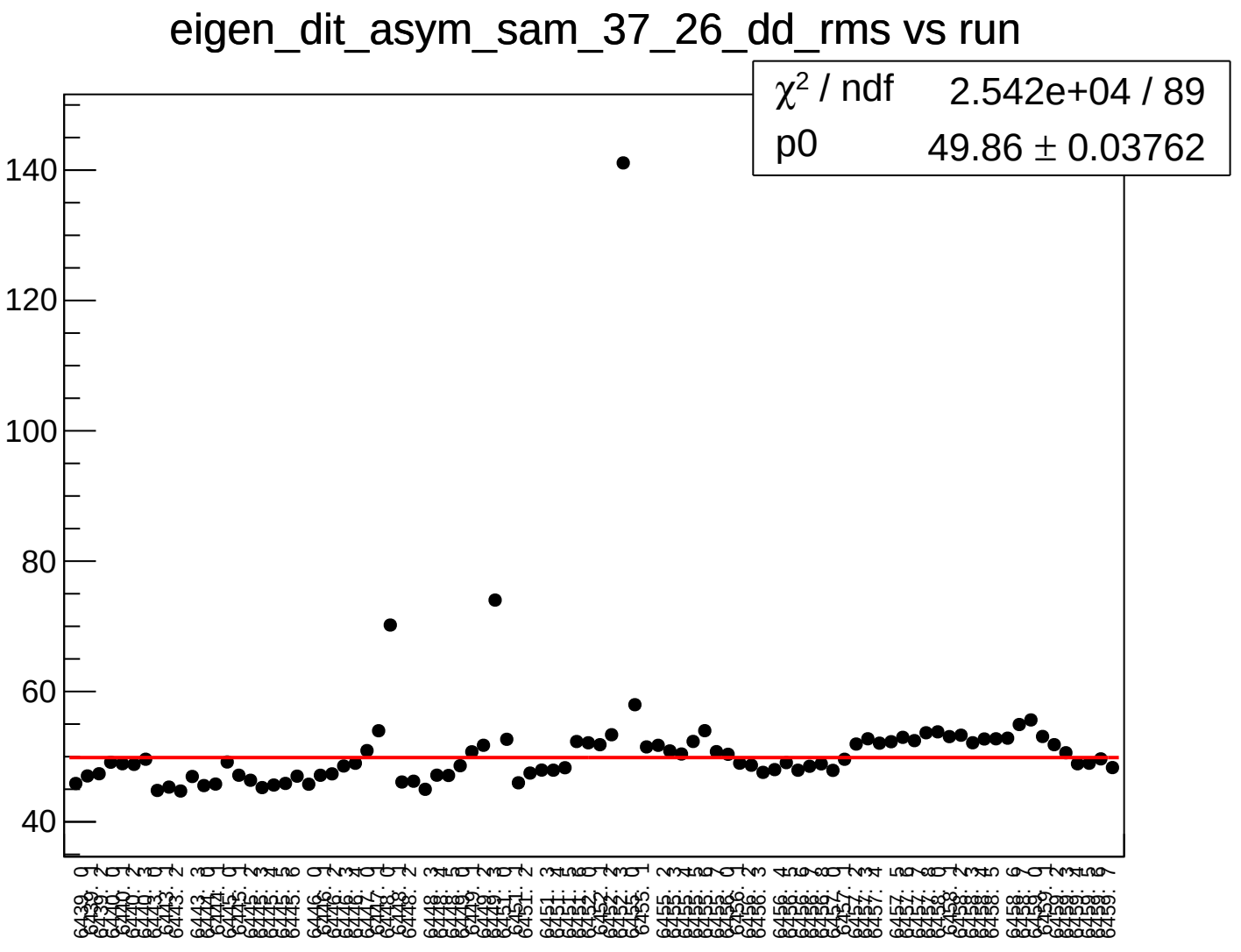

asym_sam_37_26_dd_dit_correction_mean vs run
χ² / ndf 93.42 / 89
p0 −205.8 ± 173.8
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 90
Mean 1041
Std Dev 0
2
1
0
−1
−2
−3

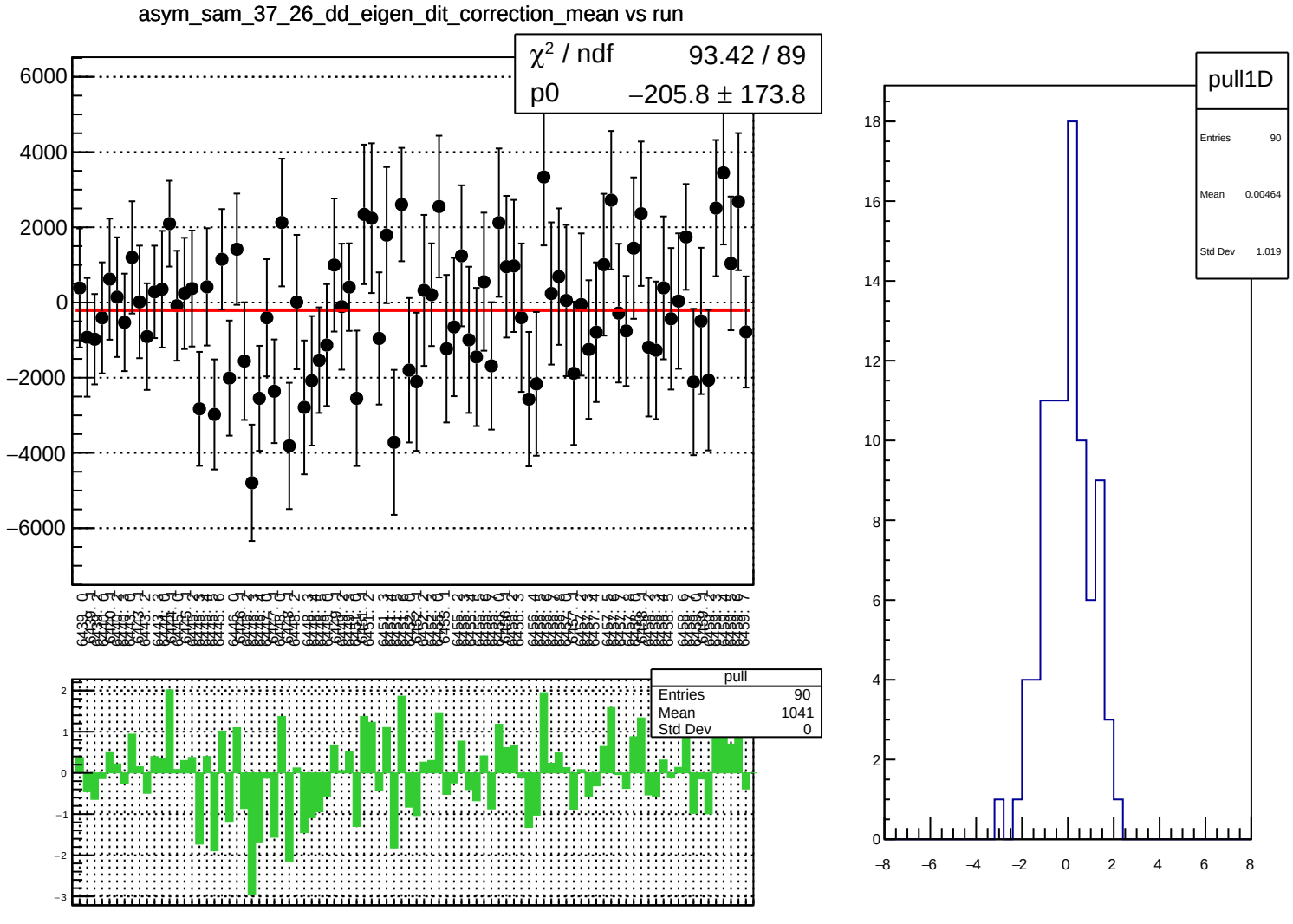

pull1D
Entries 90
Mean 0.00464
Std Dev 1.019
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

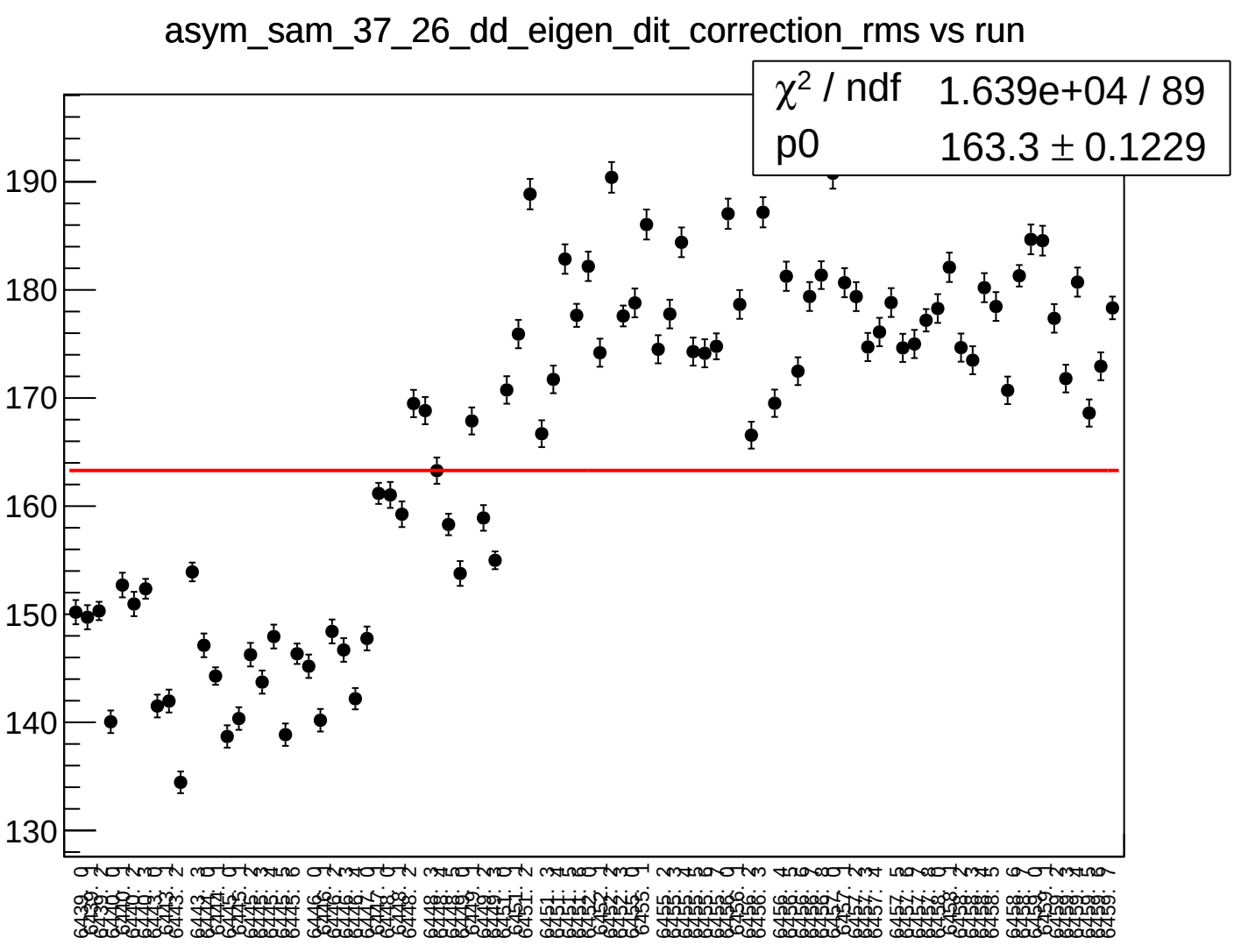

asym_sam_37_26_dd_dit_correction_rms vs run
χ² / ndf 1.639e+04 / 89
p0 163.3 ± 0.1229
190
180
170
160
150
140
130

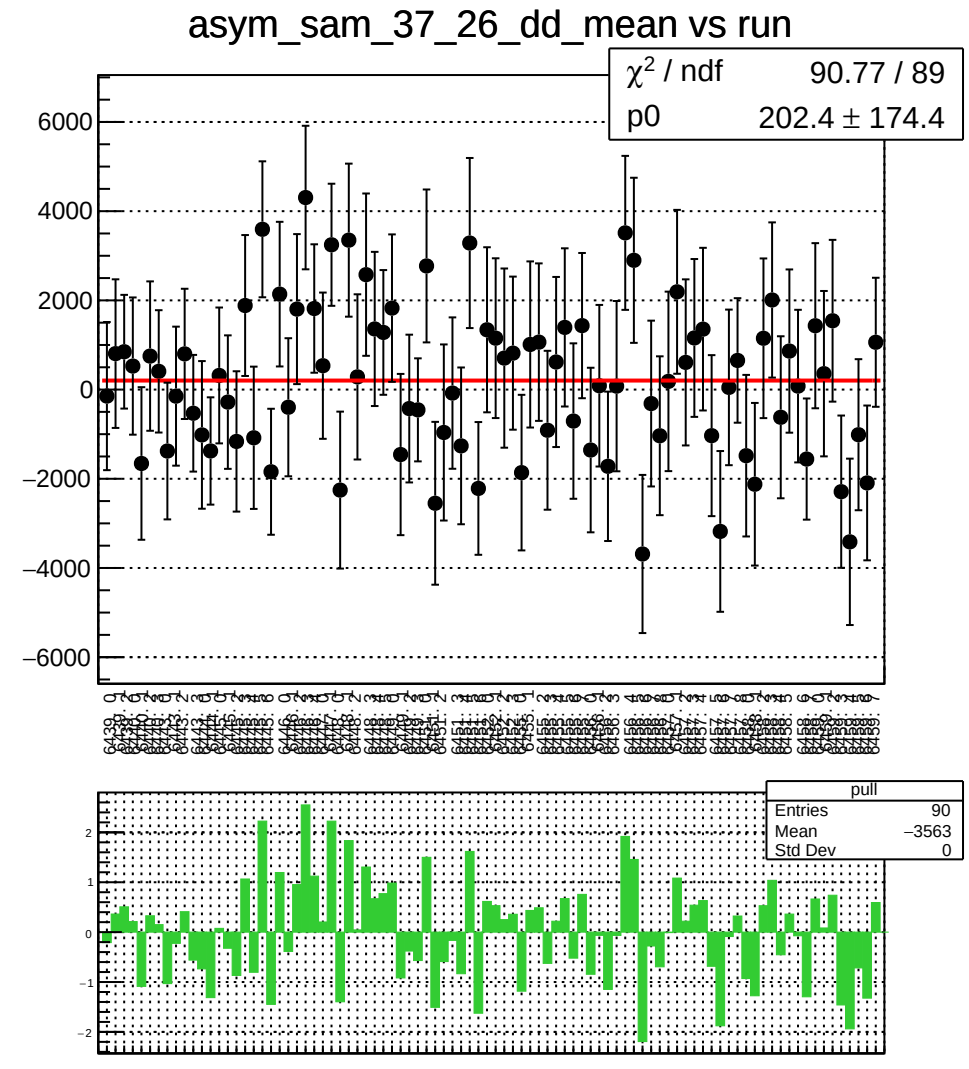

eigen_dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 96.97 / 89
p0 7.432 ± 53.2
pull
Entries 90
Mean 564.1
Std Dev 0

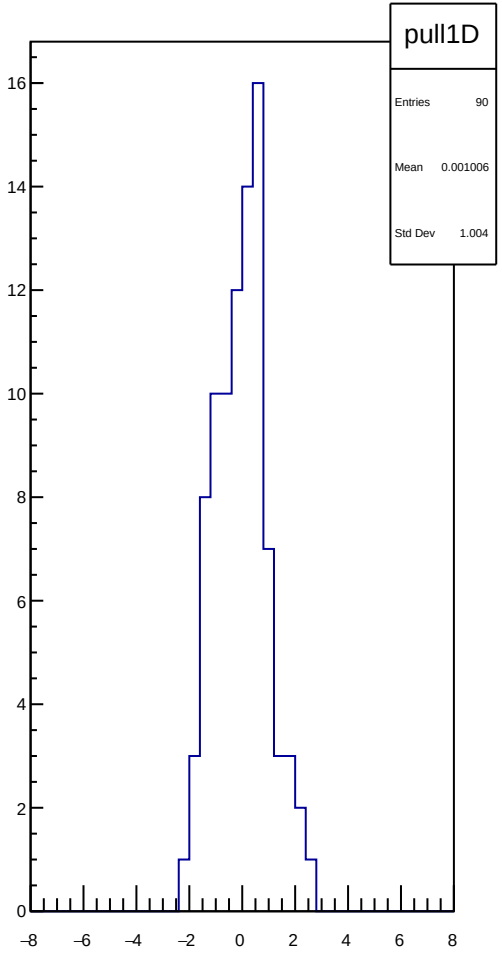

pull1D
Entries 90
Mean 0.007253
Std Dev 1.038

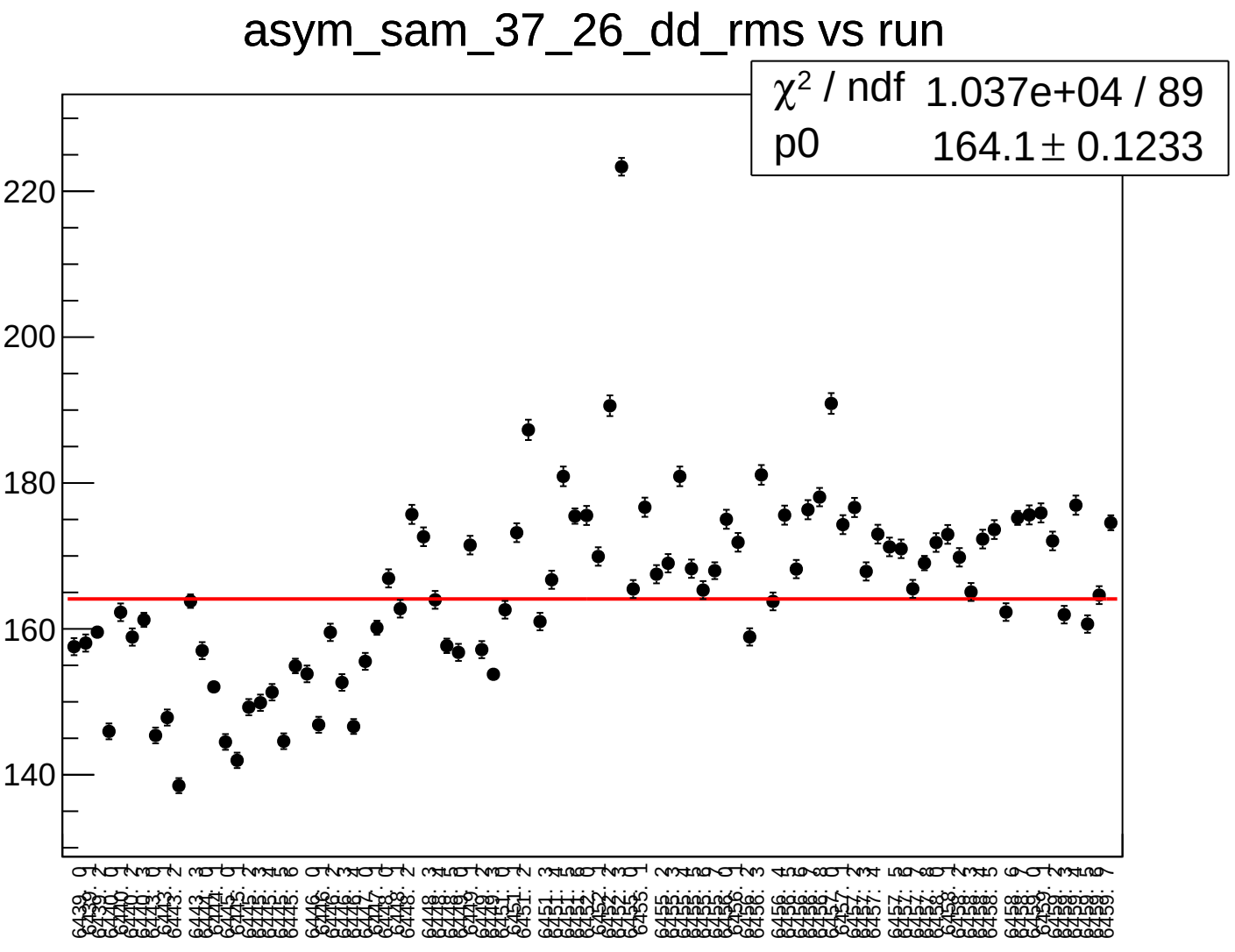

eigen_dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 2.542e+04 / 89
p0 49.86 ± 0.03762
140
120
100
80
60
40

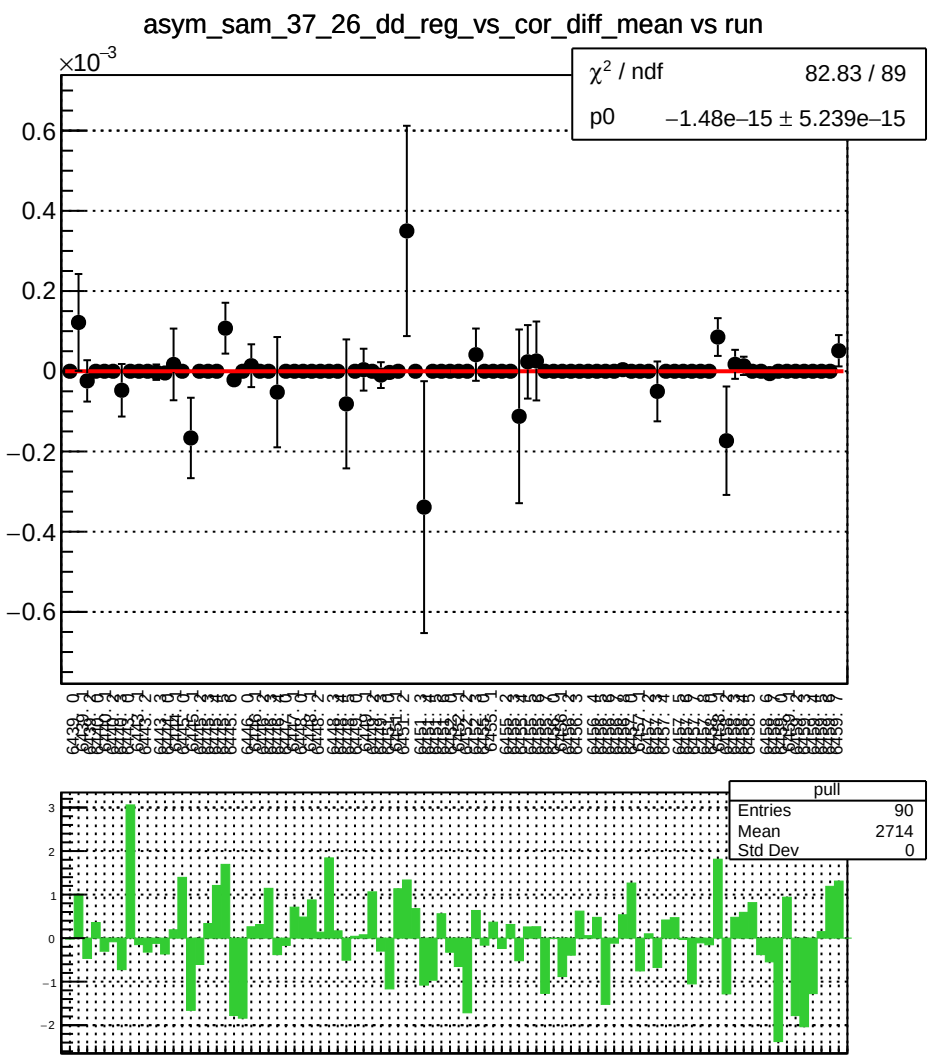

asym_sam_37_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 93.42 / 89
p0 −205.8 ± 173.8
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 90
Mean 1041
Std Dev 0
pull1D
Entries 90
Mean 0.00464
Std Dev 1.019
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

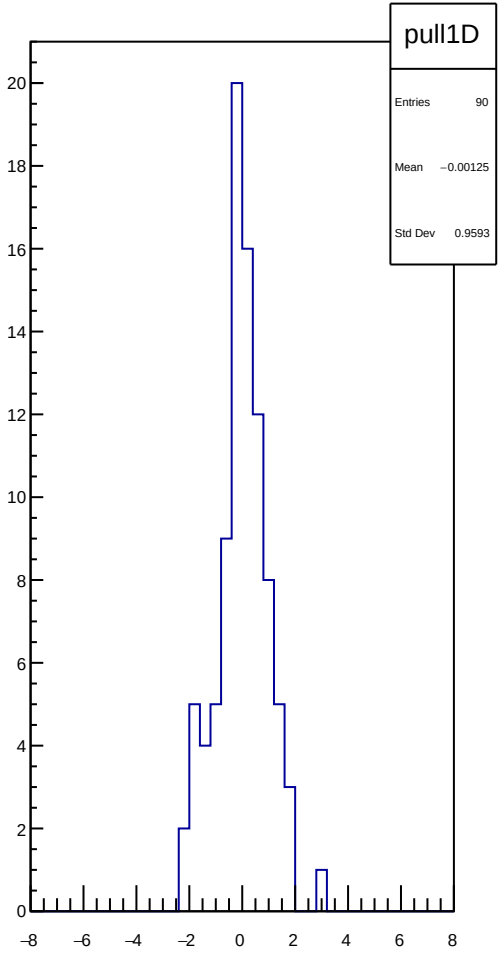

asym_sam_37_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.639e+04 / 89
p0 163.3 ± 0.1229
190
180
170
160
150
140
130

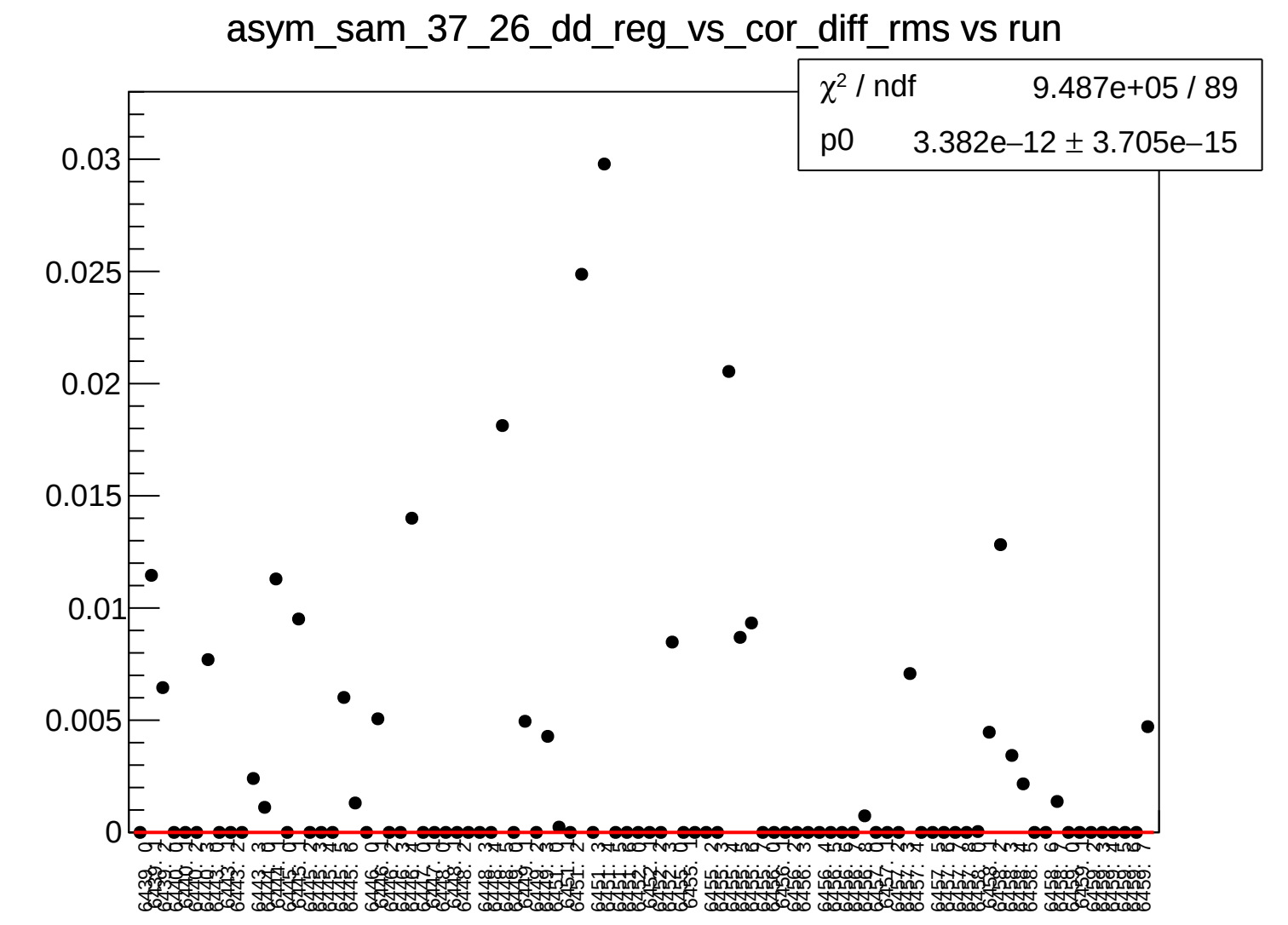

asym_sam_37_26_dd_mean vs run
χ^2 / ndf 90.77 / 89
p0 202.4 ± 174.4
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 90
Mean −3563
Std Dev 0
2
1
0
−1
−2

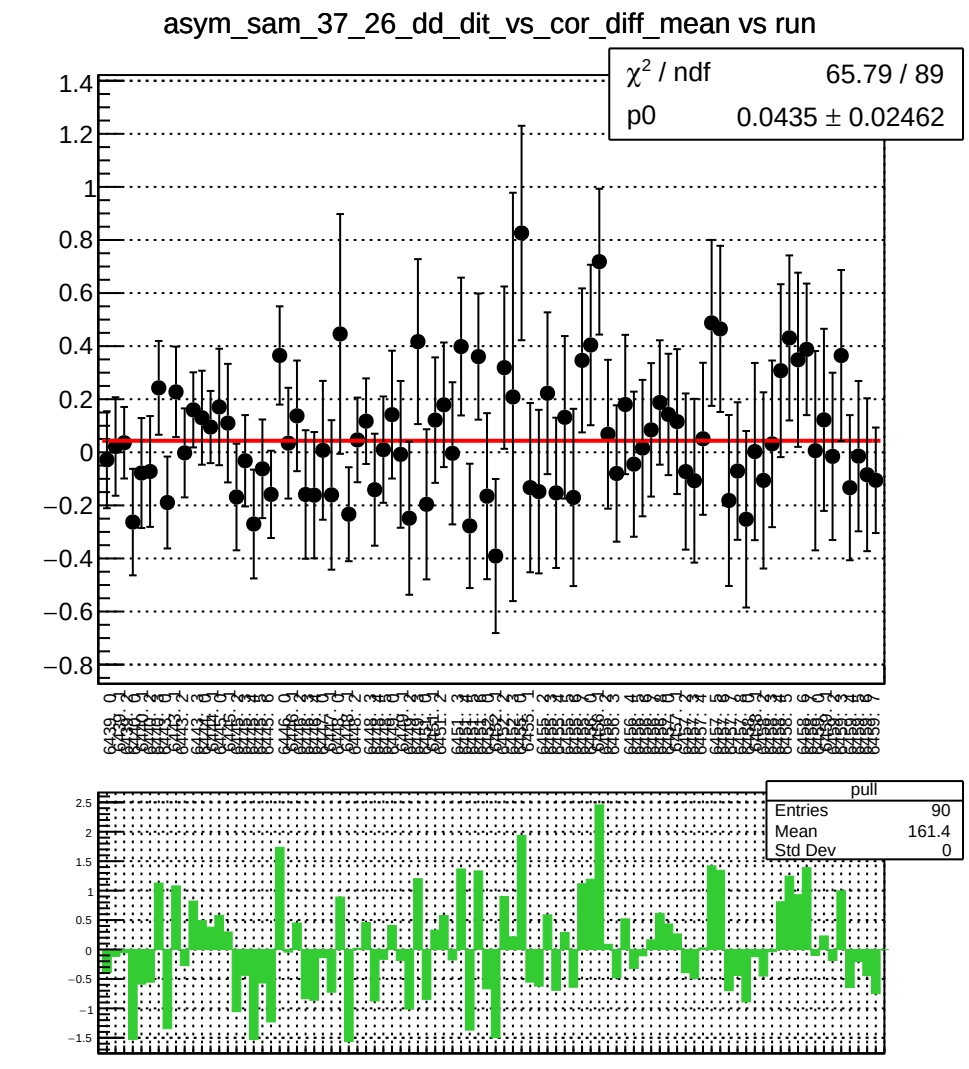

pull1D
Entries 90
Mean 0.001006
Std Dev 1.004
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

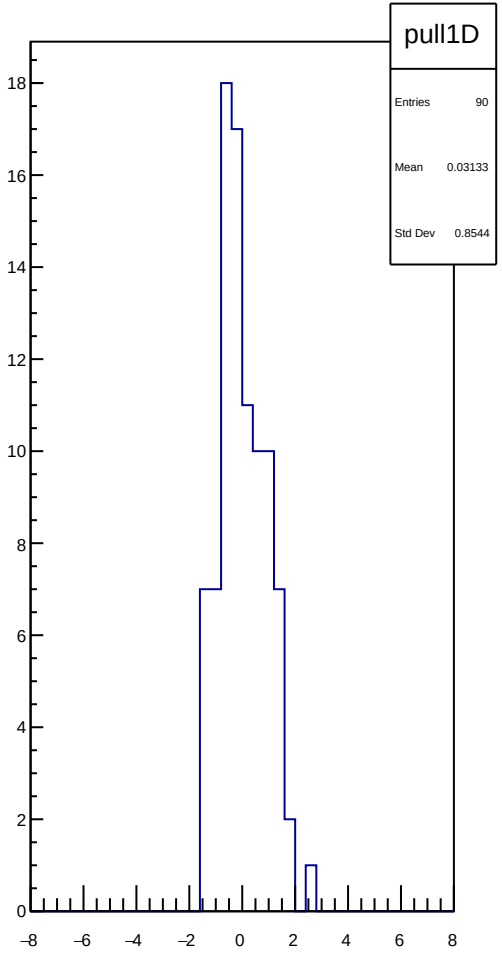

asym_sam_37_26_dd_rms vs run
χ² / ndf 1.037e+04 / 89
p0 164.1 ± 0.1233
220
200
180
160
140

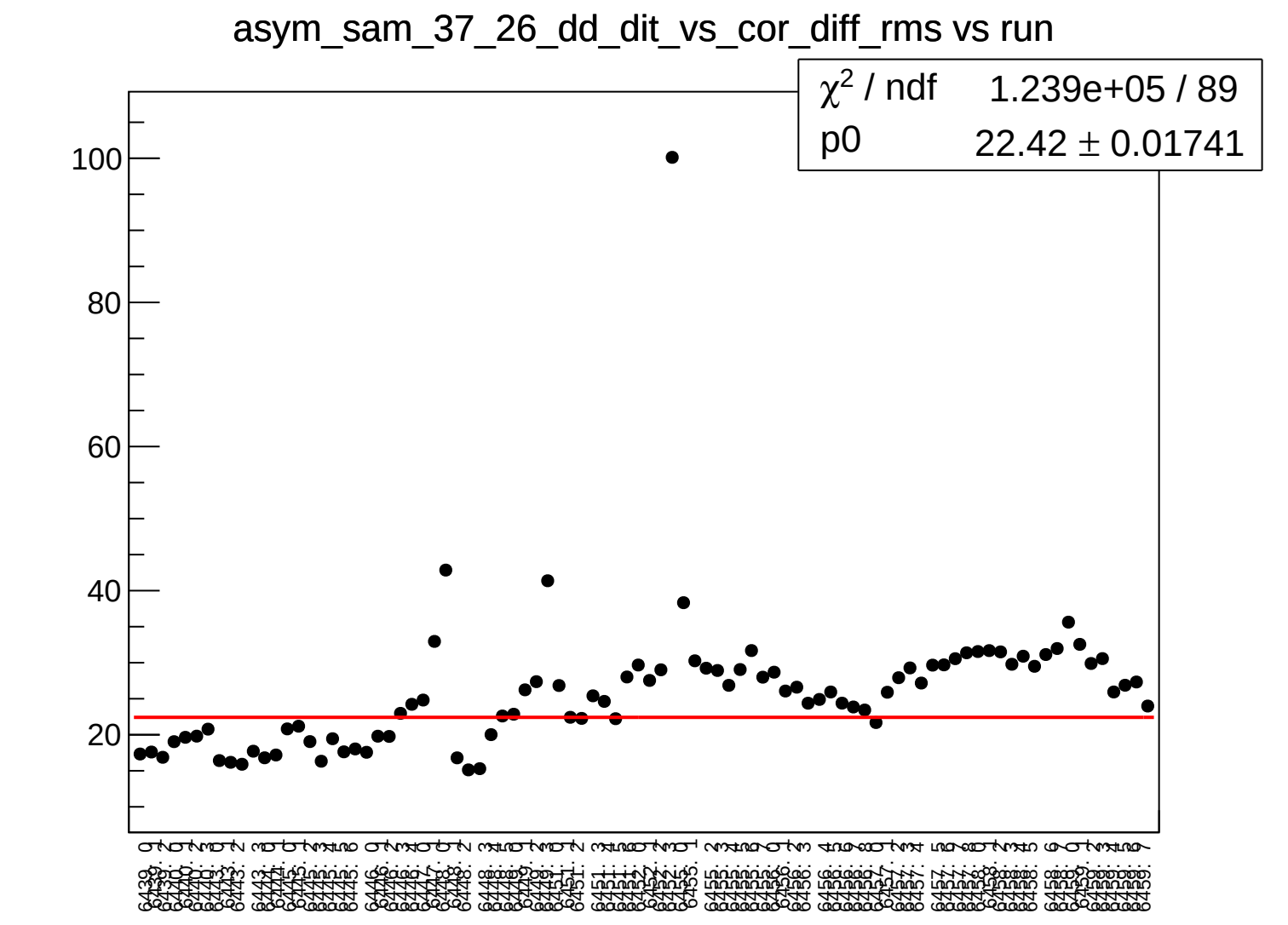

asym_sam_37_26_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 82.83 / 89
p0 −1.48e−15 ± 5.239e−15
pull
Entries 90
Mean 2714
Std Dev 0

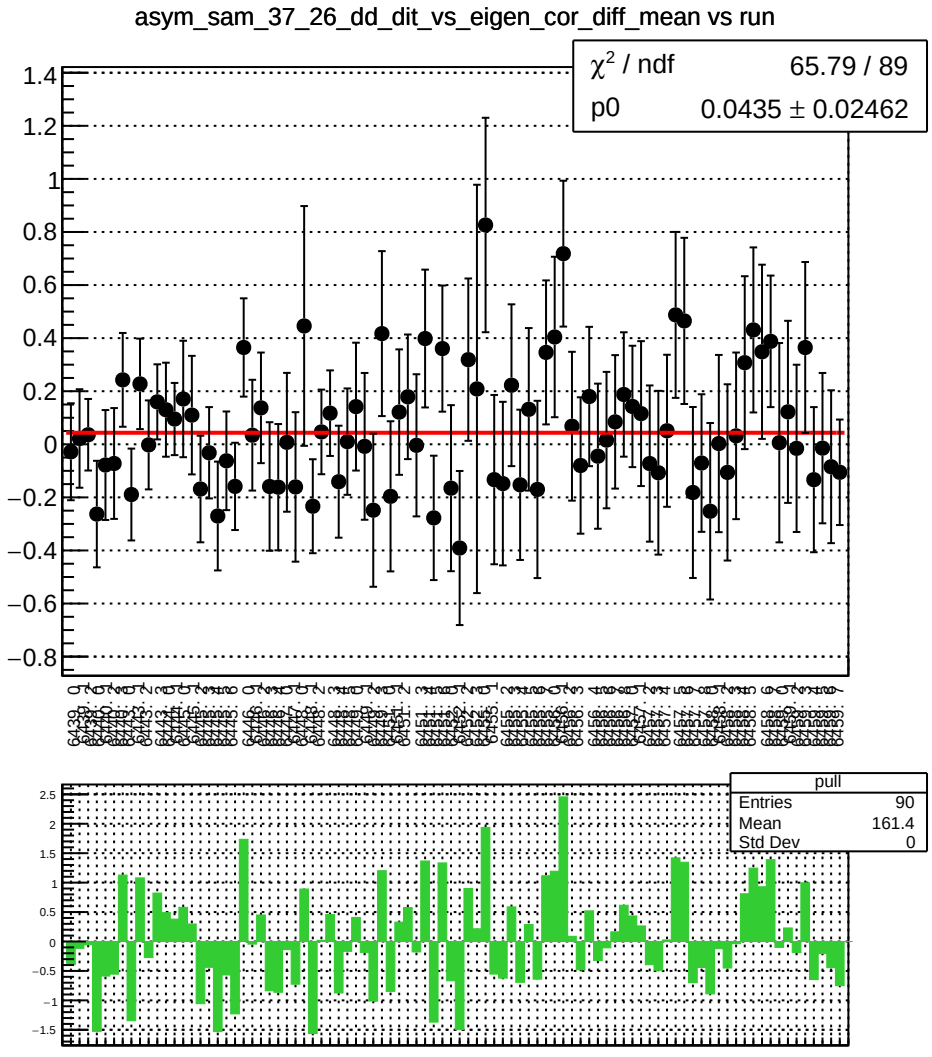

pull1D
Entries 90
Mean −0.00125
Std Dev 0.9593

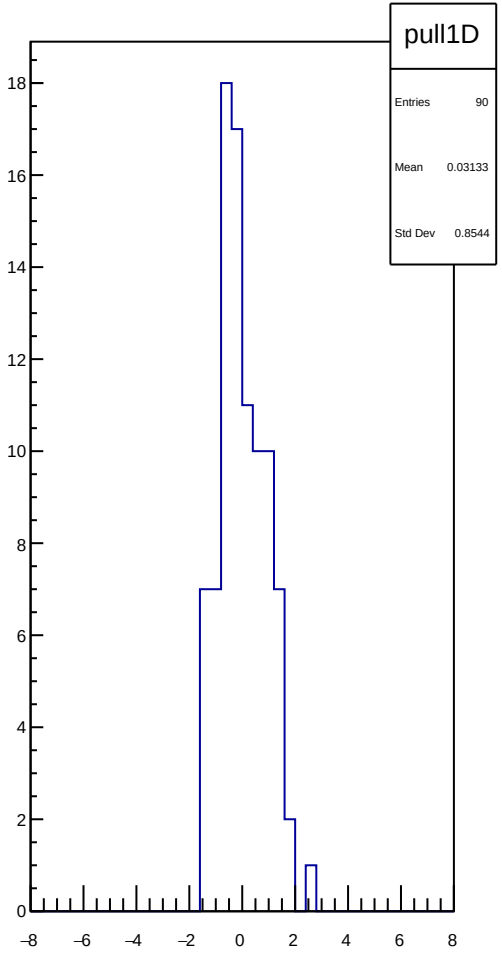

asym_sam_37_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.487e+05 / 89
p0 3.382e−12 ± 3.705e−15
0.03
0.025
0.02
0.015
0.01
0.005
0

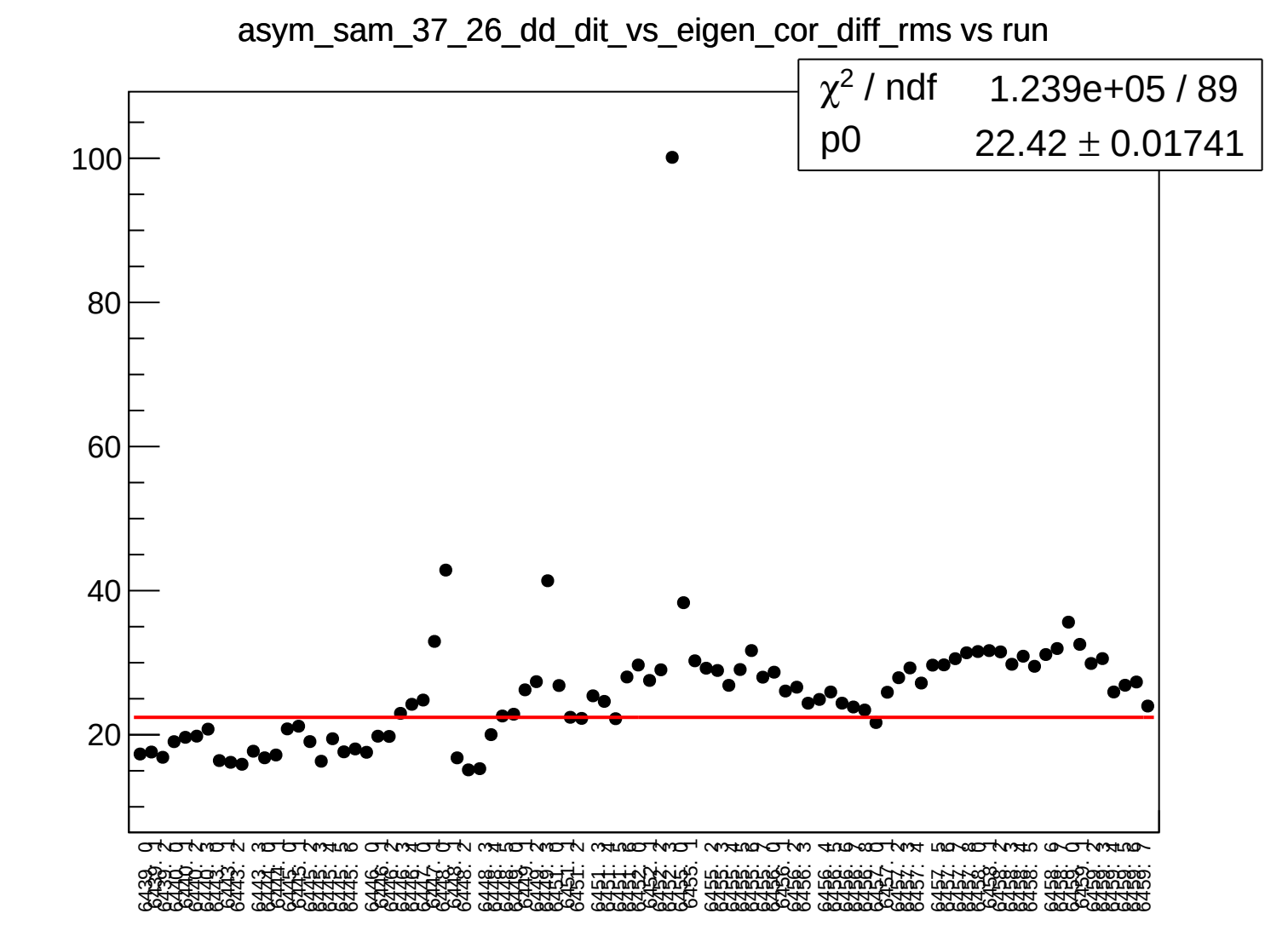

asym_sam_37_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 65.79 / 89
p0 0.0435 ± 0.02462
pull
Entries 90
Mean 161.4
Std Dev 0

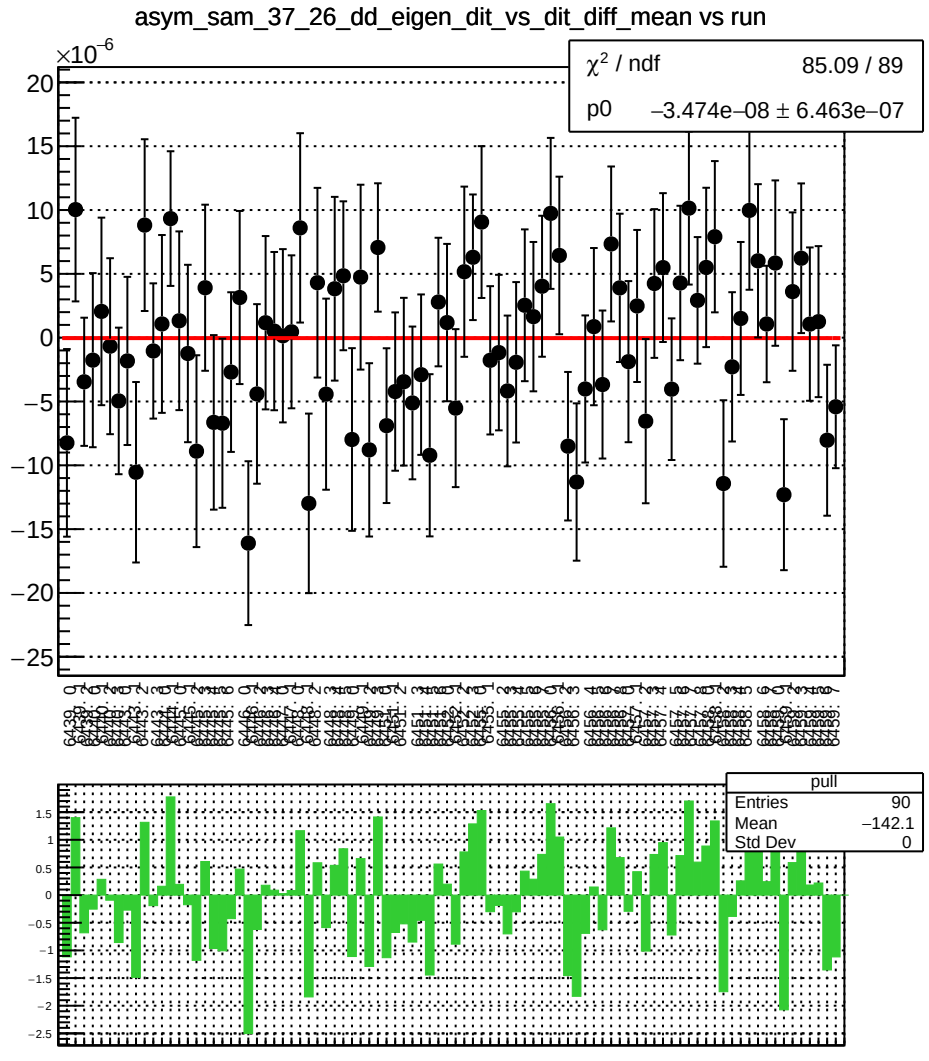

pull1D
Entries 90
Mean 0.03133
Std Dev 0.8544

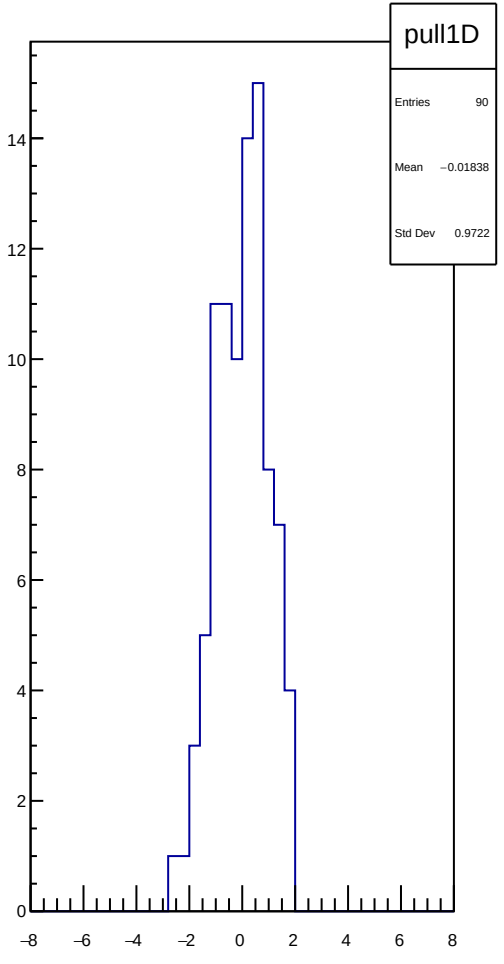

asym_sam_37_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.239e+05 / 89
p0 22.42 ± 0.01741
100
80
60
40
20

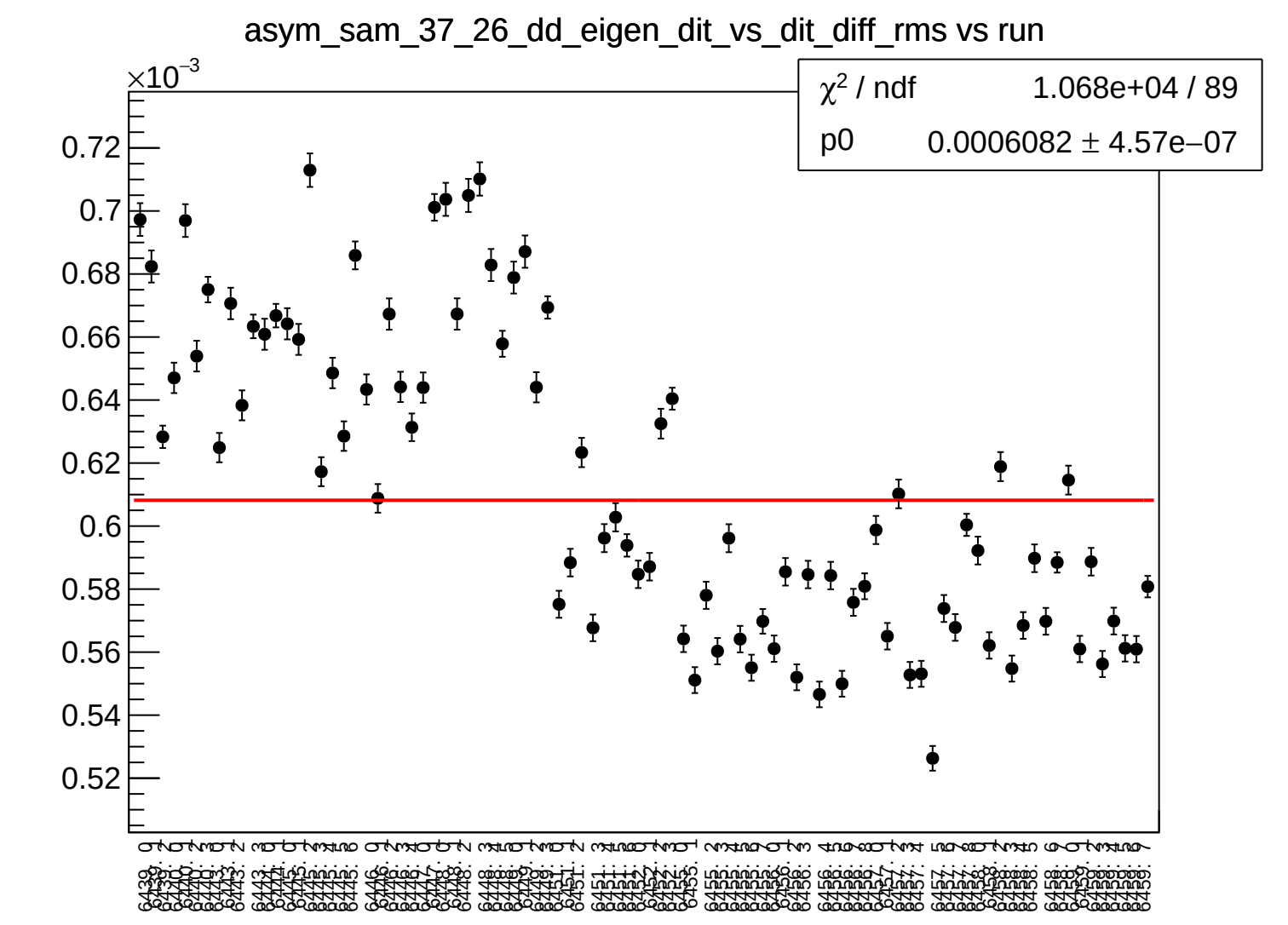

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.79 / 89
p0 0.0435 ± 0.02462
pull
Entries 90
Mean 161.4
Std Dev 0

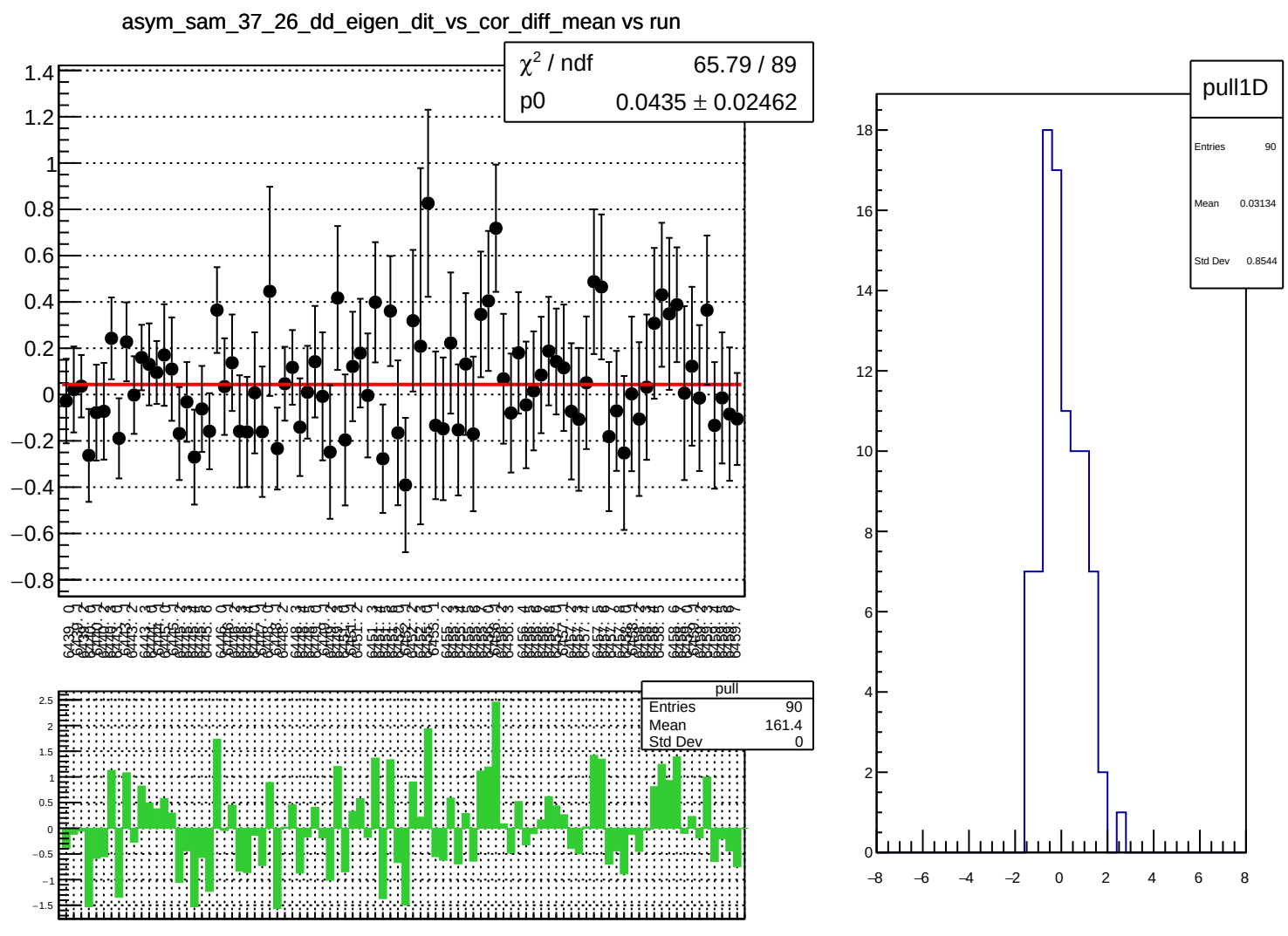

pull1D
Entries 90
Mean 0.03133
Std Dev 0.8544

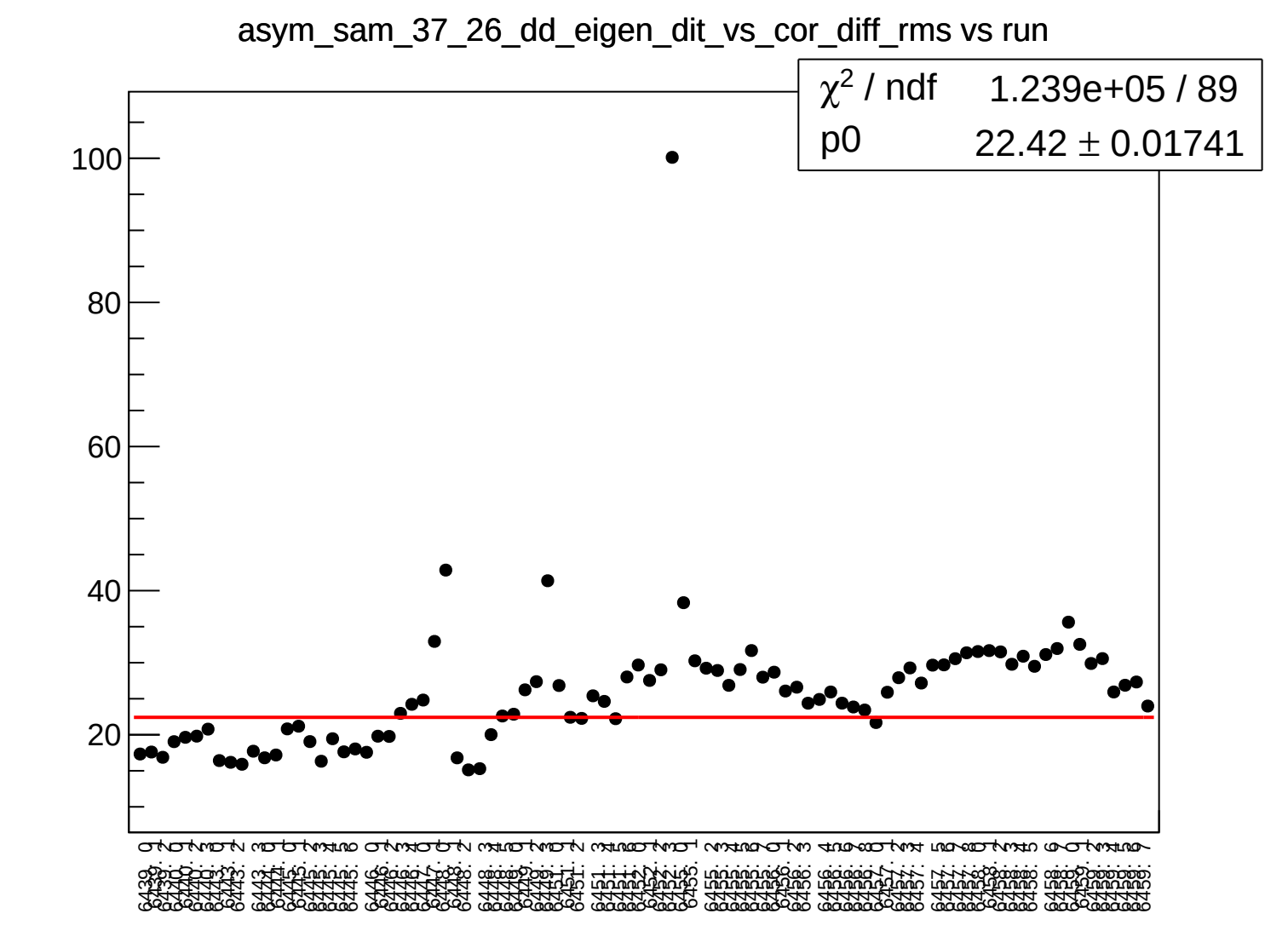

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.239e+05 / 89
p0 22.42 ± 0.01741
100
80
60
40
20

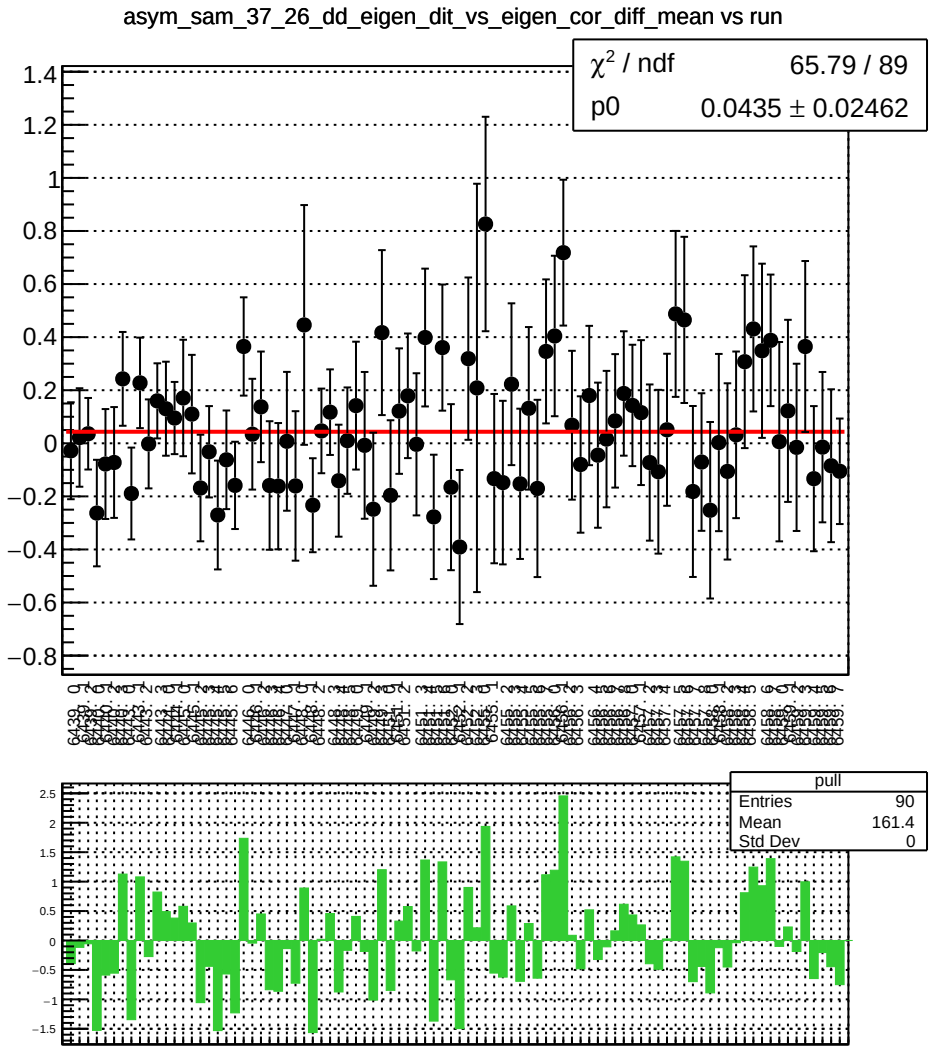

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻⁶
χ² / ndf 85.09 / 89
p0 −3.474e−08 ± 6.463e−07
pull
Entries 90
Mean −142.1
Std Dev 0

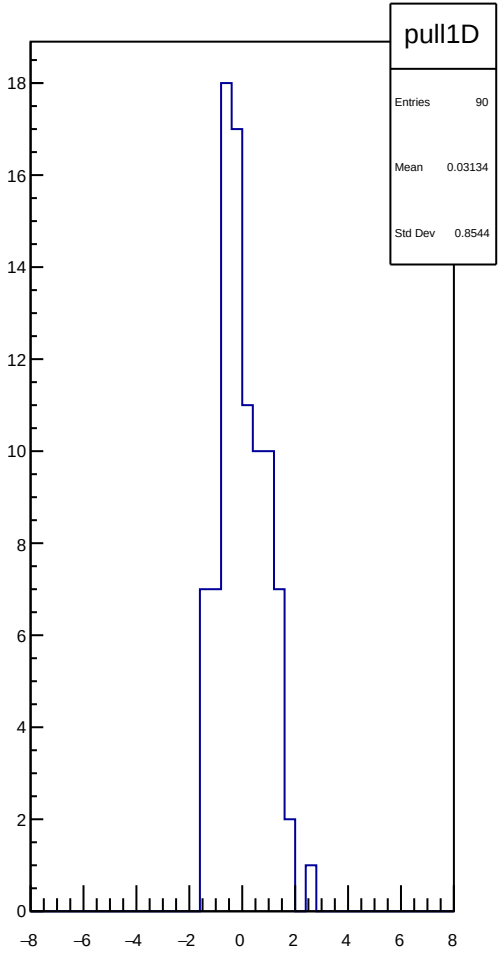

pull1D
Entries 90
Mean −0.01838
Std Dev 0.9722

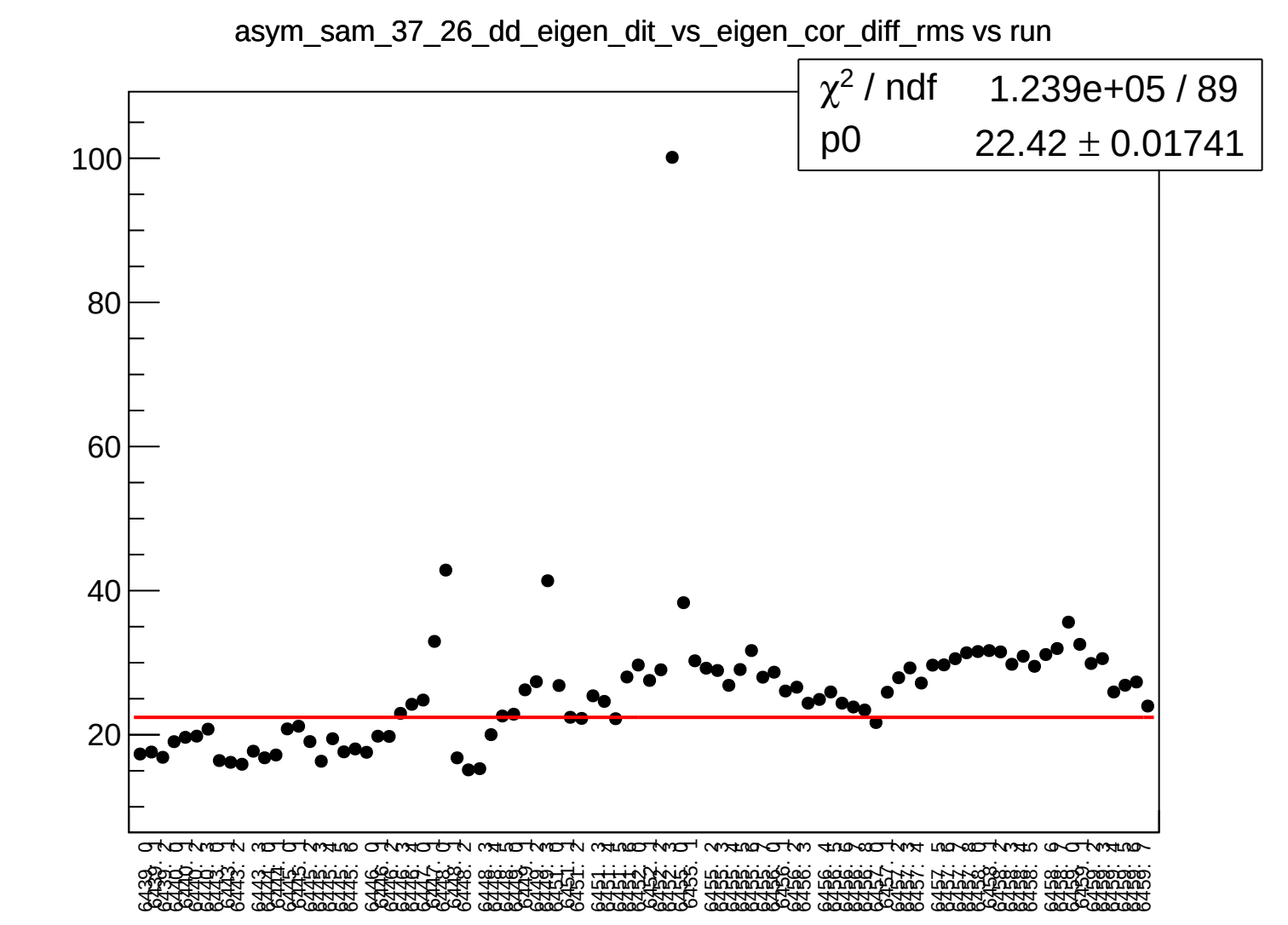

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 1.068e+04 / 89
p0 0.0006082 ± 4.57e−07
0.72
0.7
0.68
0.66
0.64
0.62
0.6
0.58
0.56
0.54
0.52

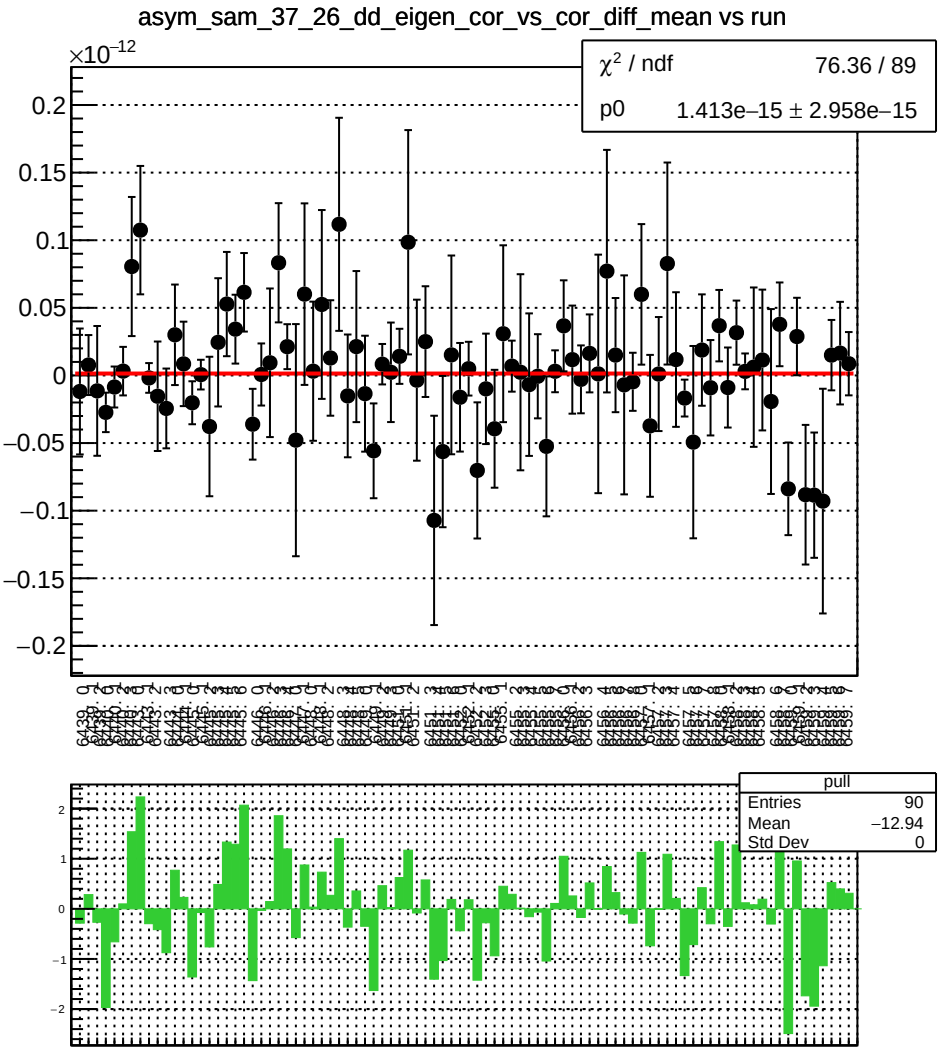

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 65.79 / 89
p0 0.0435 ± 0.02462
pull
Entries 90
Mean 161.4
Std Dev 0
pull1D
Entries 90
Mean 0.03134
Std Dev 0.8544

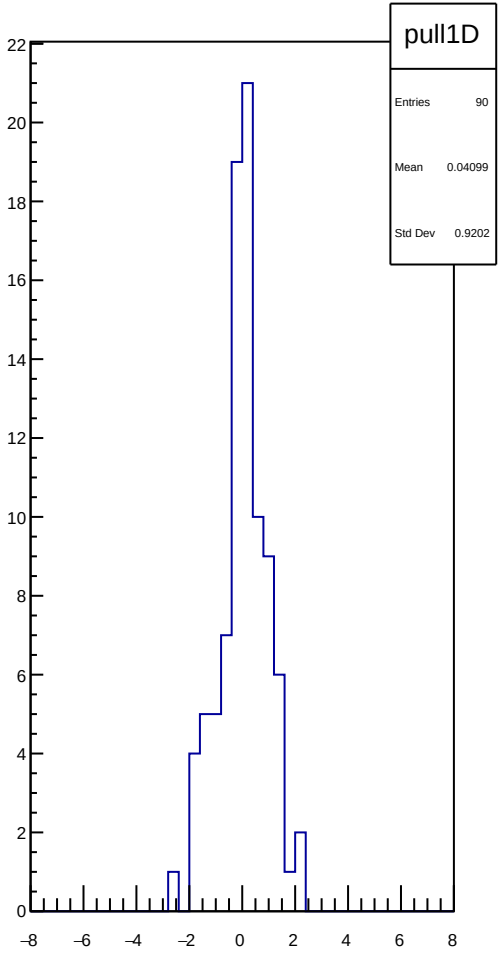

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.239e+05 / 89
p0 22.42 ± 0.01741
100
80
60
40
20

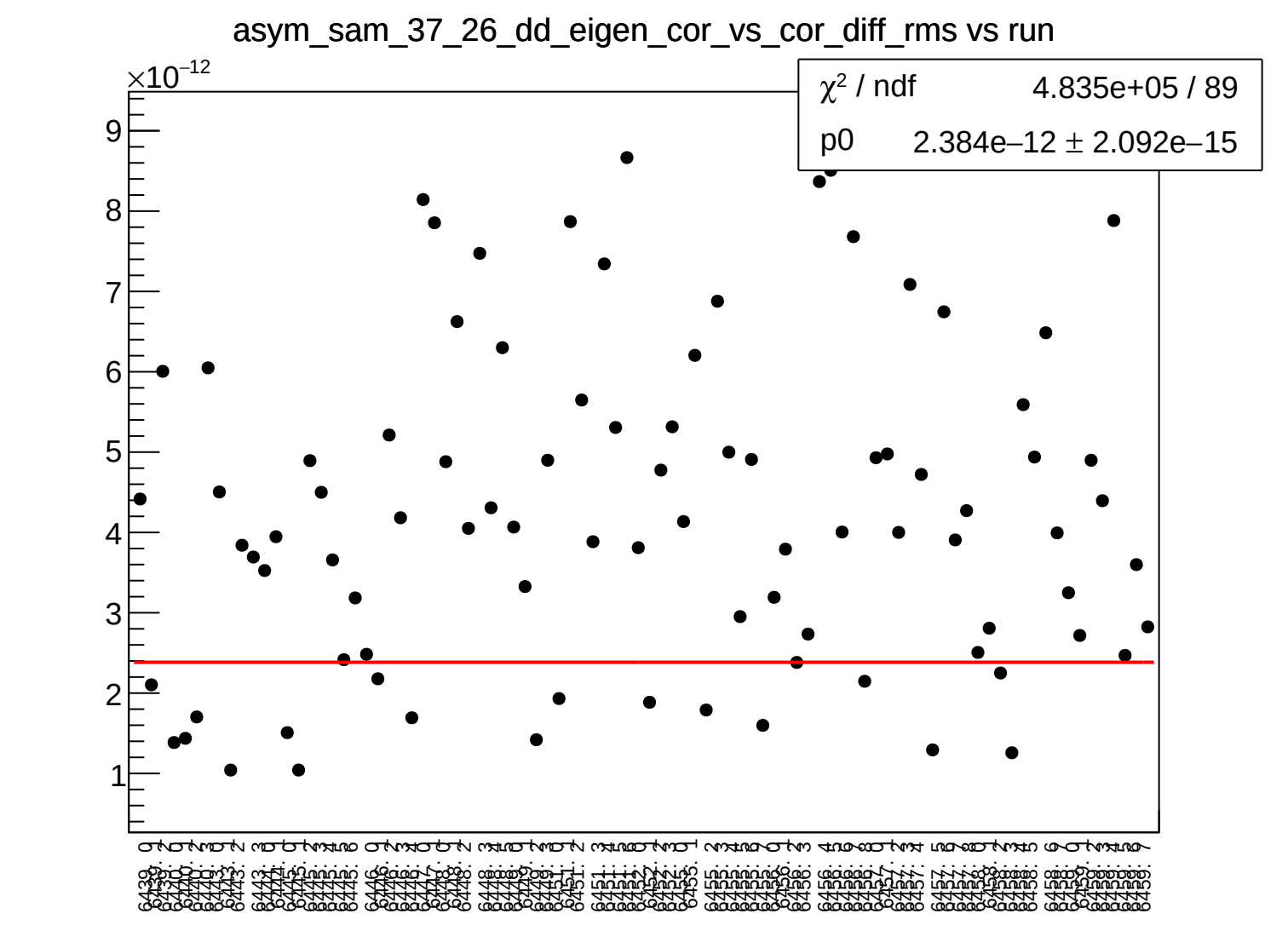

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.79 / 89
p0 0.0435 ± 0.02462
pull
Entries 90
Mean 161.4
Std Dev 0

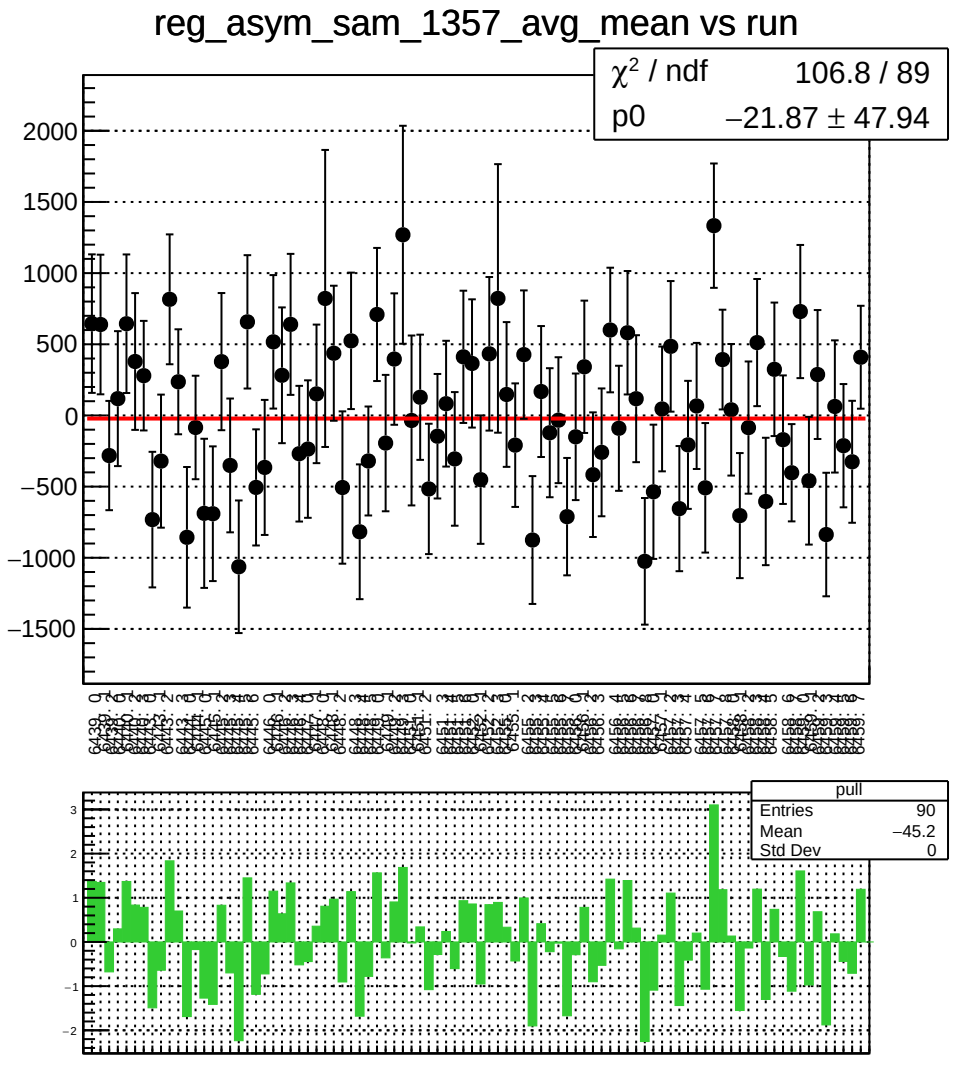

pull1D
Entries 90
Mean 0.03134
Std Dev 0.8544

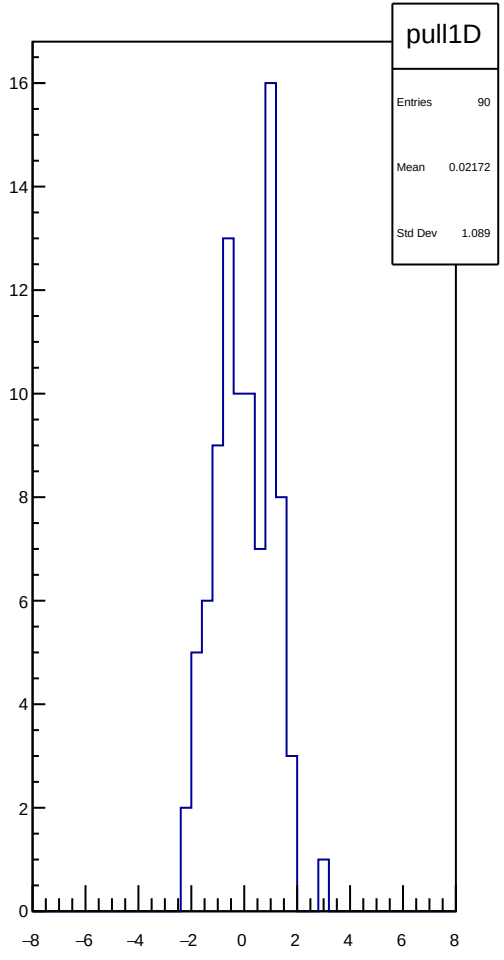

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.239e+05 / 89
p0 22.42 ± 0.01741
100
80
60
40
20

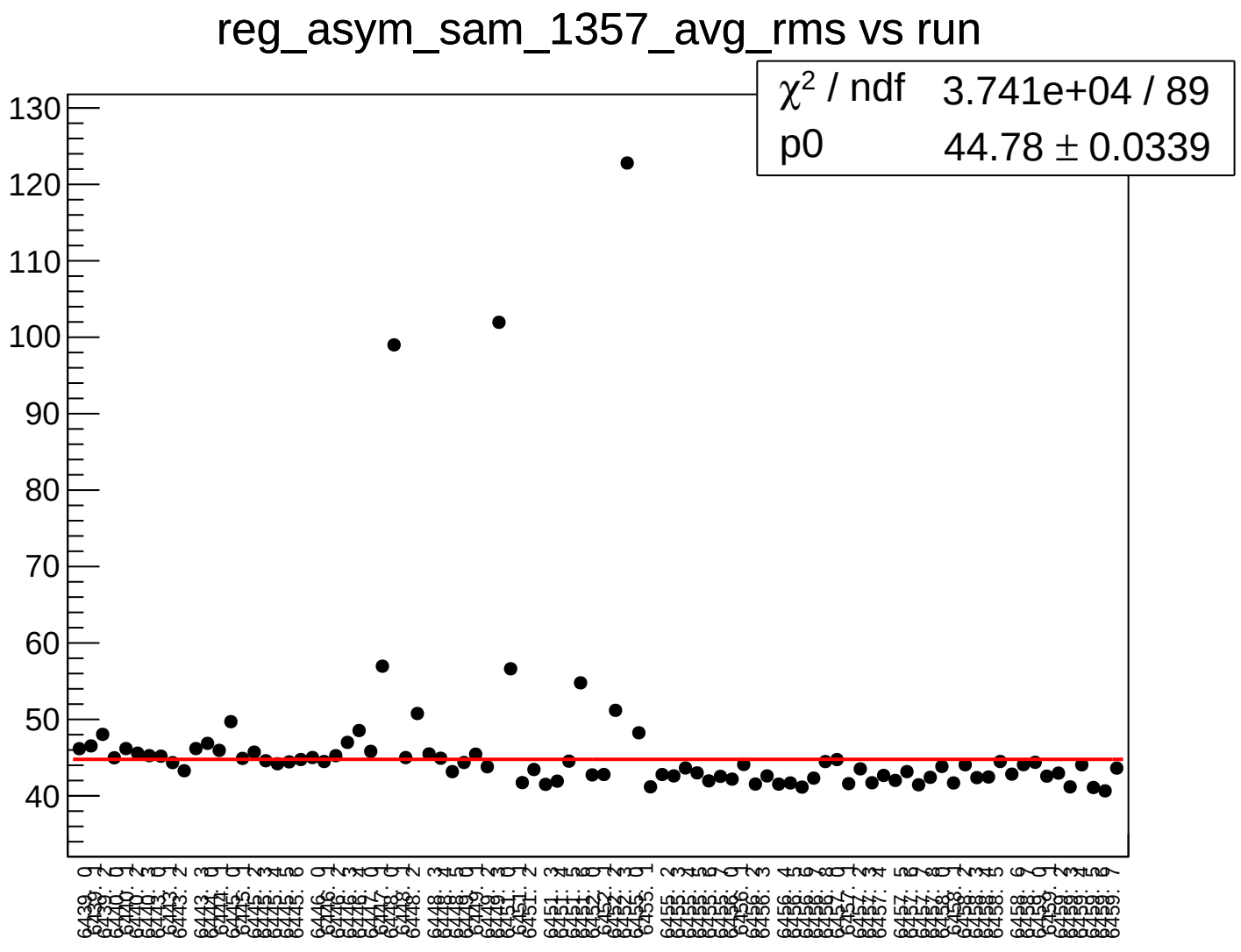

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.36 / 89
p0 1.413e−15 ± 2.958e−15
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
pull
Entries 90
Mean −12.94
Std Dev 0
2
1
0
−1
−2

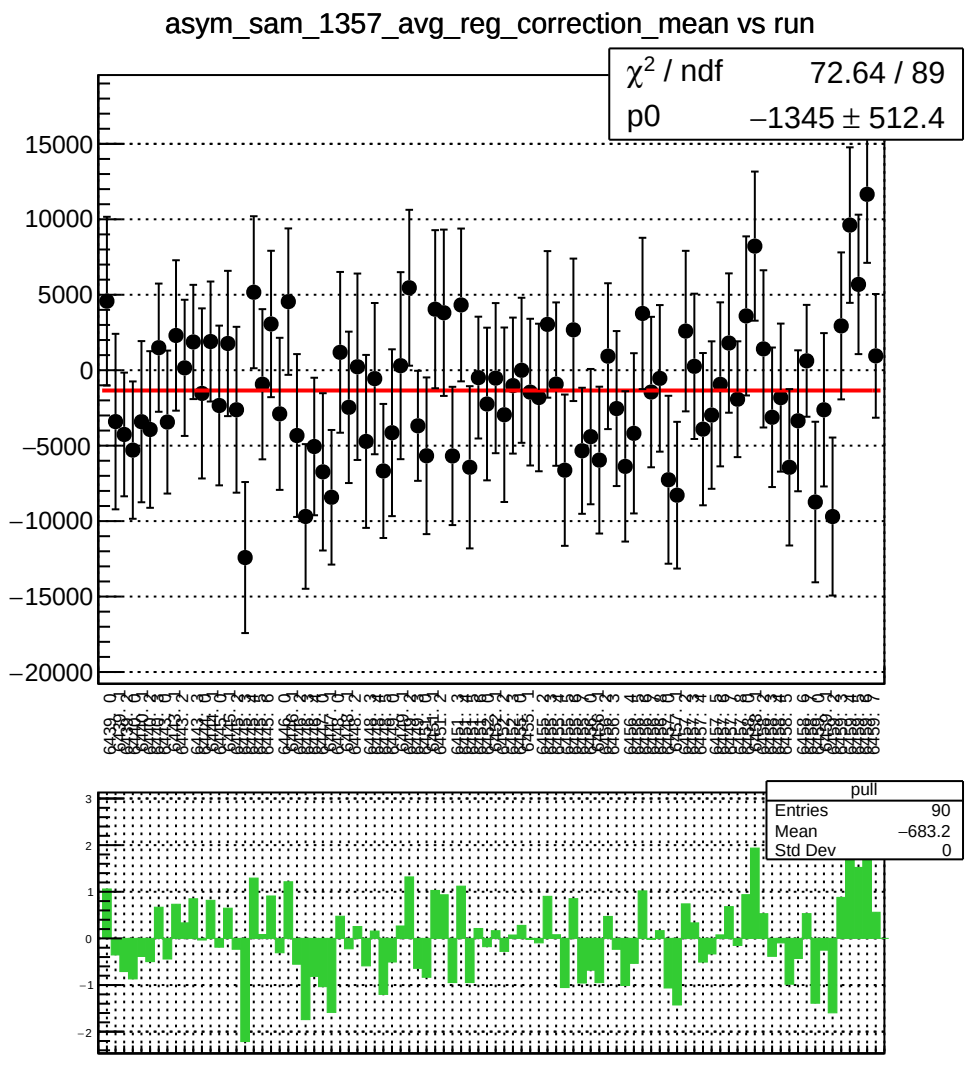

pull1D
Entries 90
Mean 0.04099
Std Dev 0.9202
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

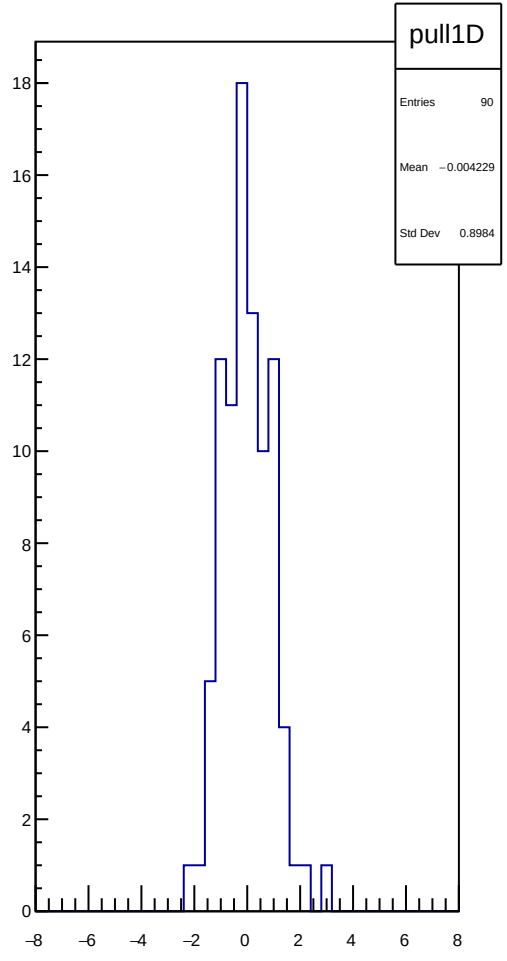

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.835e+05 / 89
p0 2.384e−12 ± 2.092e−15
9
8
7
6
5
4
3
2
1

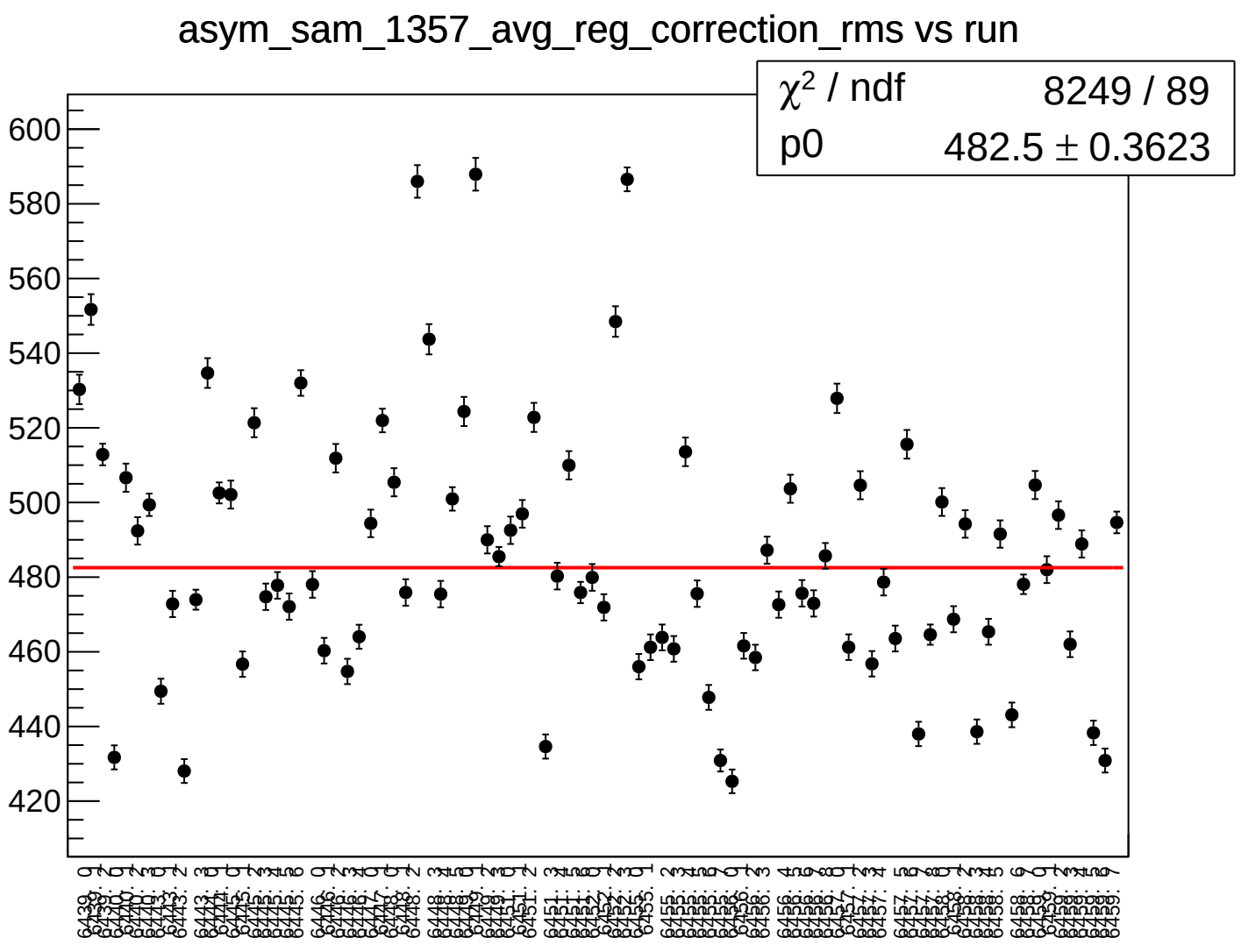

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 106.8 / 89
p0 −21.87 ± 47.94
2000
1500
1000
500
0
−500
−1000
−1500
pull
Entries 90
Mean −45.2
Std Dev 0
3
2
1
0
−1
−2

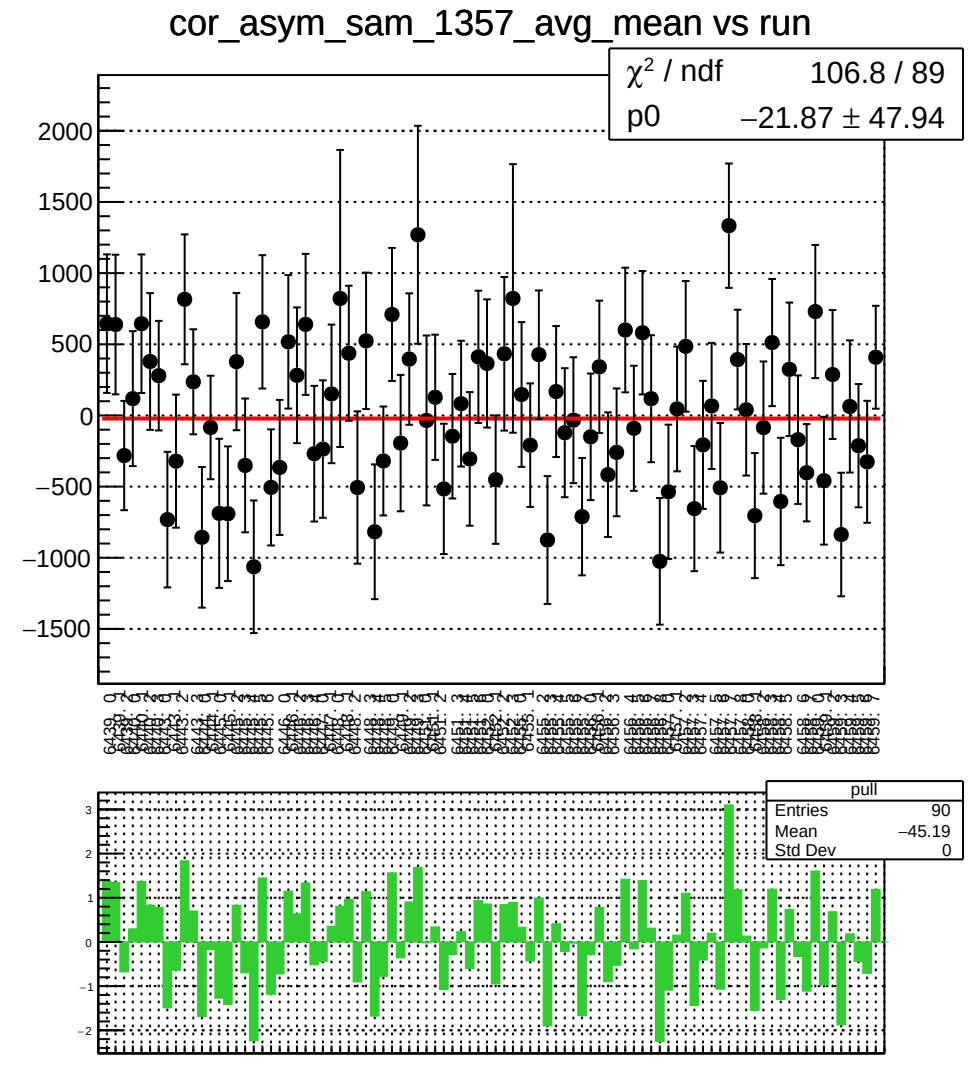

pull1D
Entries 90
Mean 0.02172
Std Dev 1.089
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

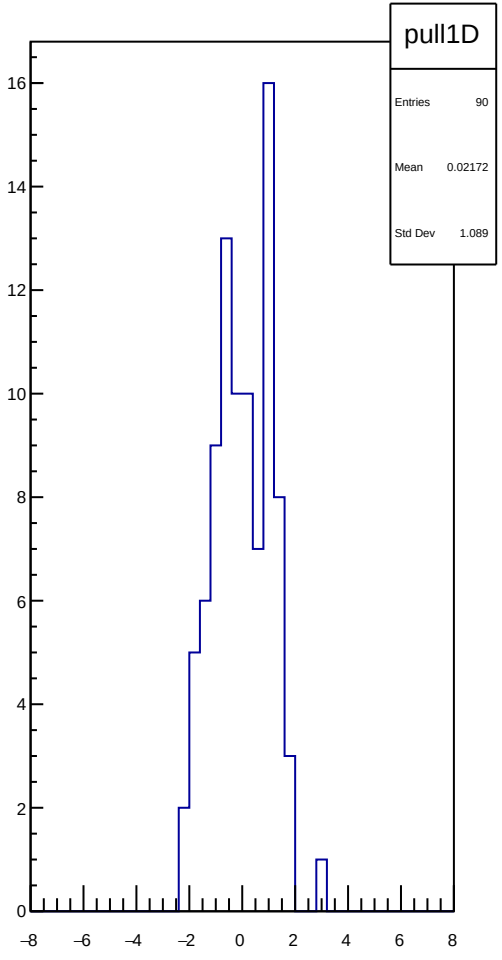

reg_asym_sam_1357_avg_rms vs run
χ^2 / ndf 3.741e+04 / 89
p0 44.78 ± 0.0339
130
120
110
100
90
80
70
60
50
40

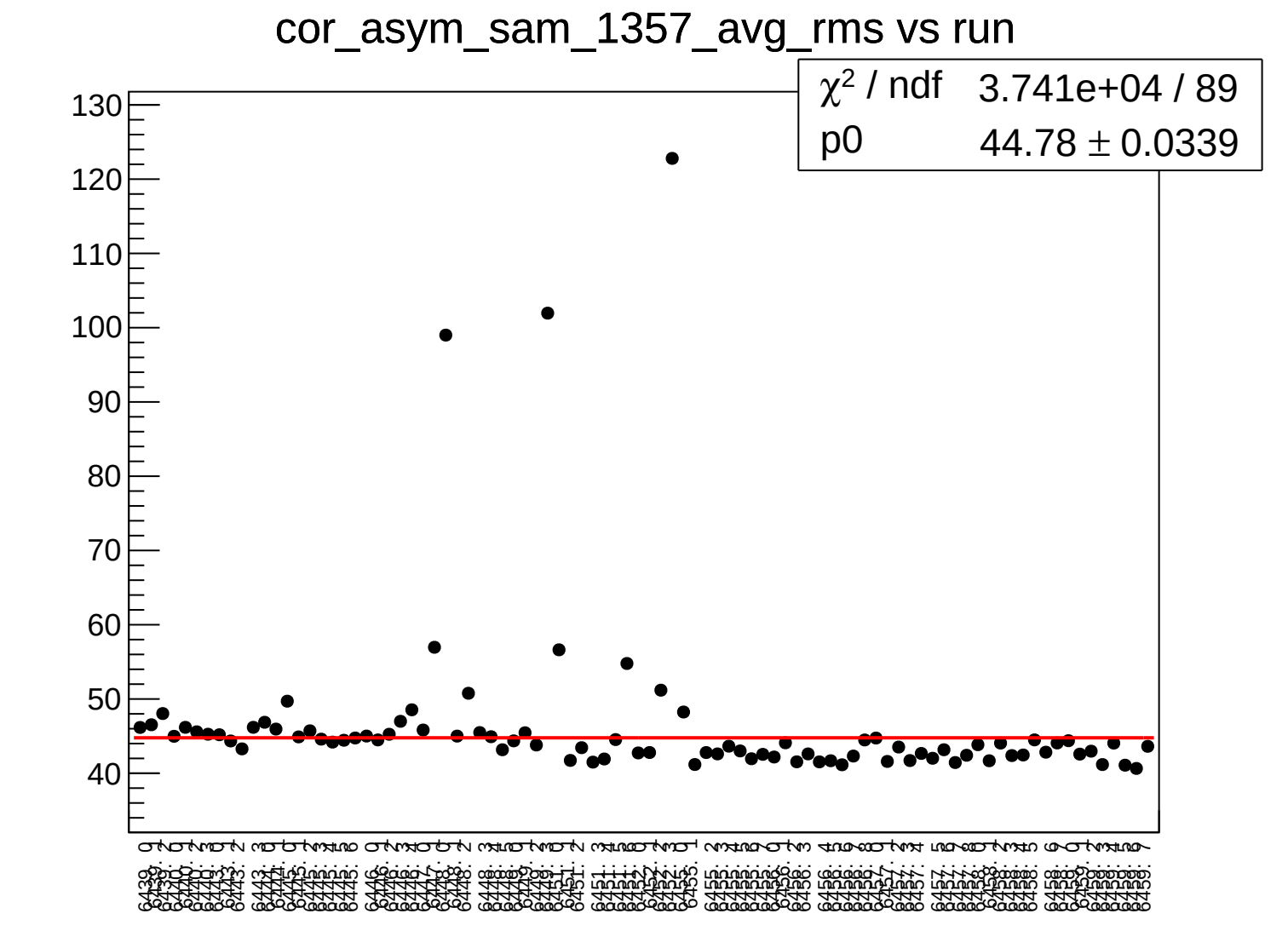

asym_sam_1357_avg_reg_correction_mean vs run
χ² / ndf 72.64 / 89
p0 −1345 ± 512.4
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 90
Mean −683.2
Std Dev 0
3
2
1
0
−1
−2

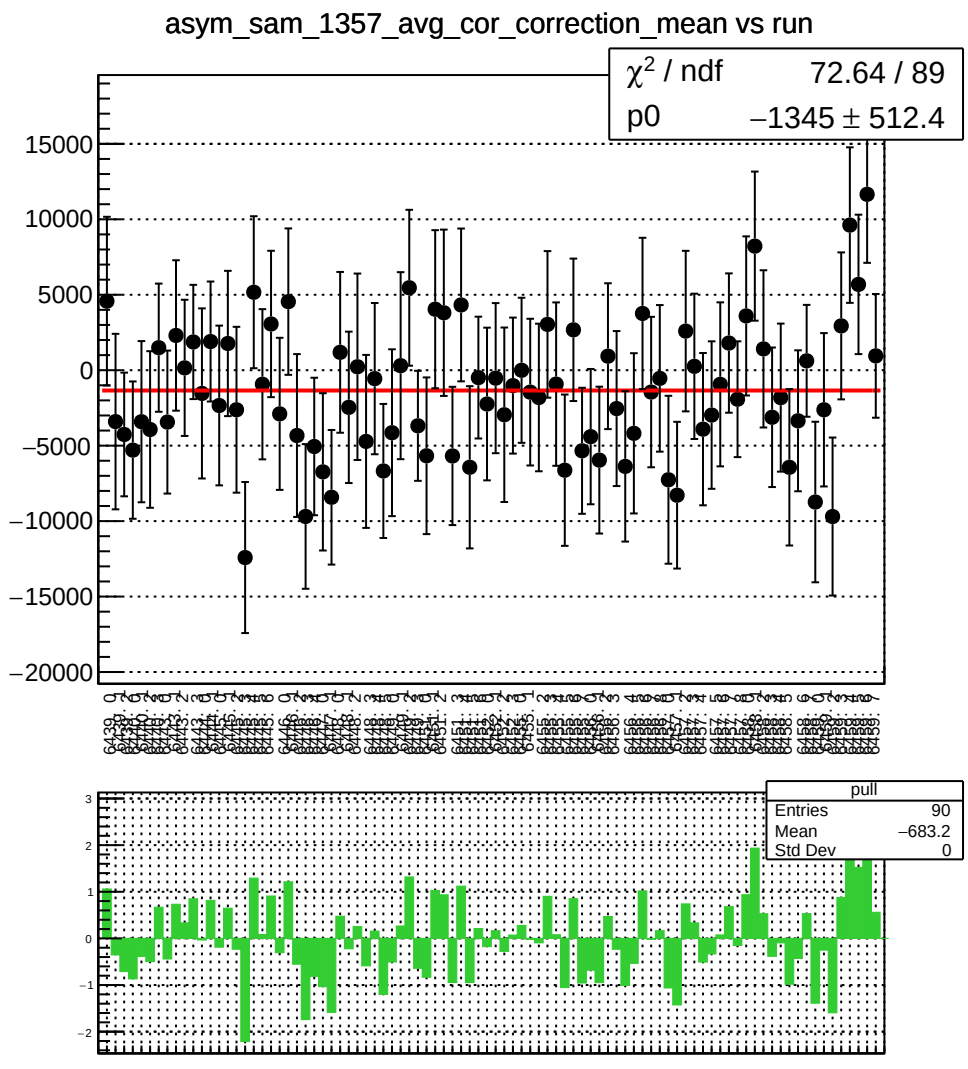

pull1D
Entries 90
Mean −0.004229
Std Dev 0.8984
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

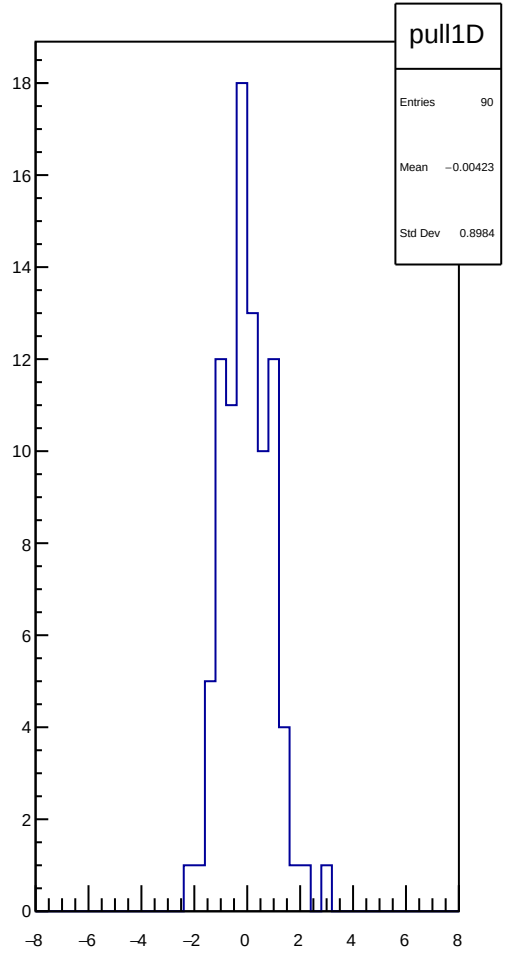

asym_sam_1357_avg_reg_correction_rms vs run
χ² / ndf 8249 / 89
p0 482.5 ± 0.3623
600
580
560
540
520
500
480
460
440
420

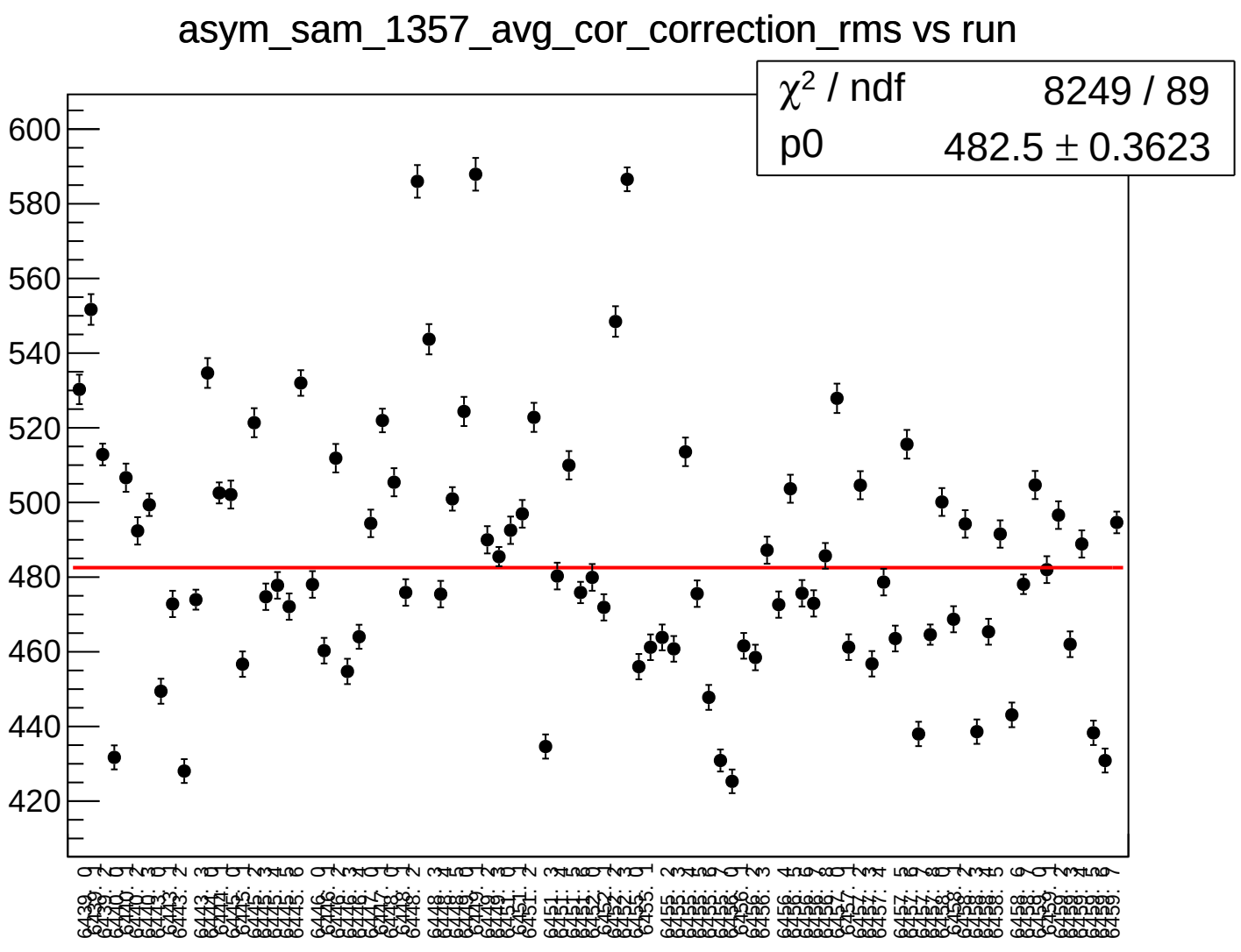

cor_asym_sam_1357_avg_mean vs run
χ² / ndf 106.8 / 89
p0 −21.87 ± 47.94
2000
1500
1000
500
0
−500
−1000
−1500
pull
Entries 90
Mean −45.19
Std Dev 0
3
2
1
0
−1
−2

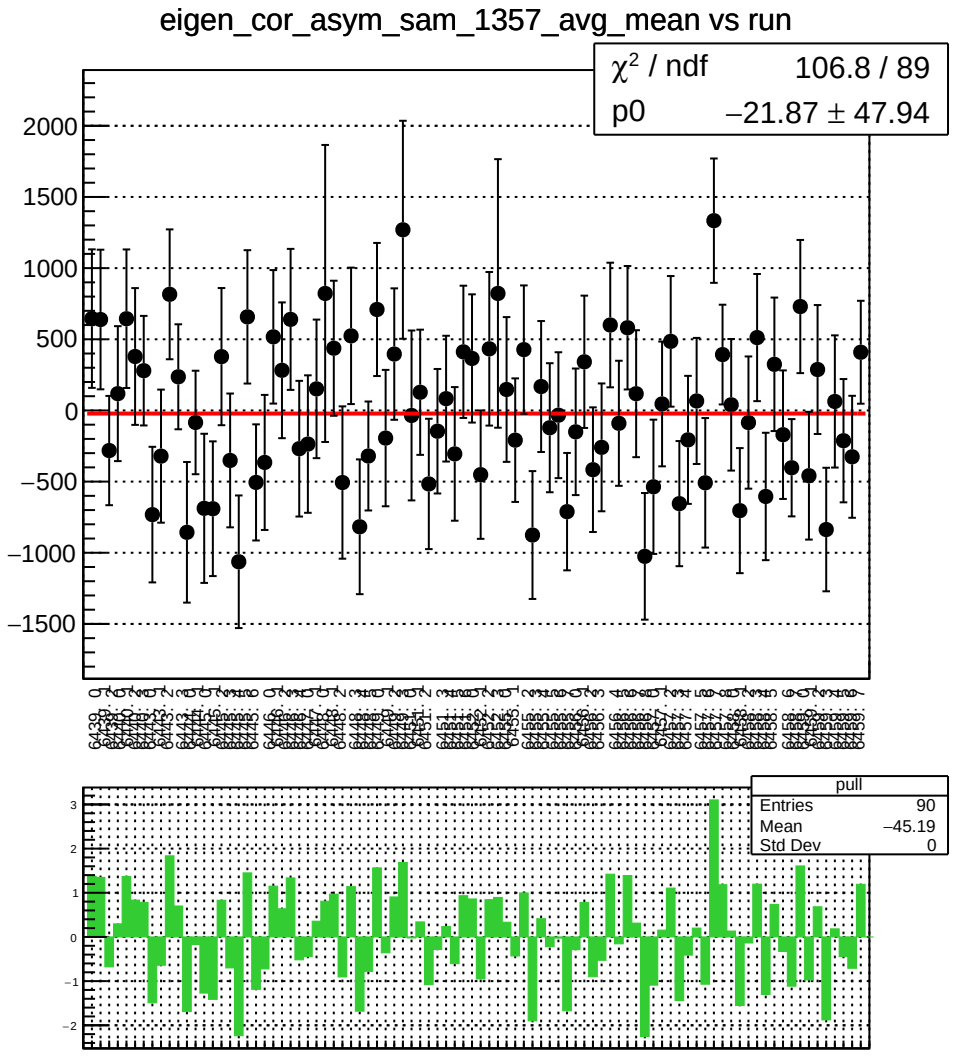

pull1D
Entries 90
Mean 0.02172
Std Dev 1.089
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

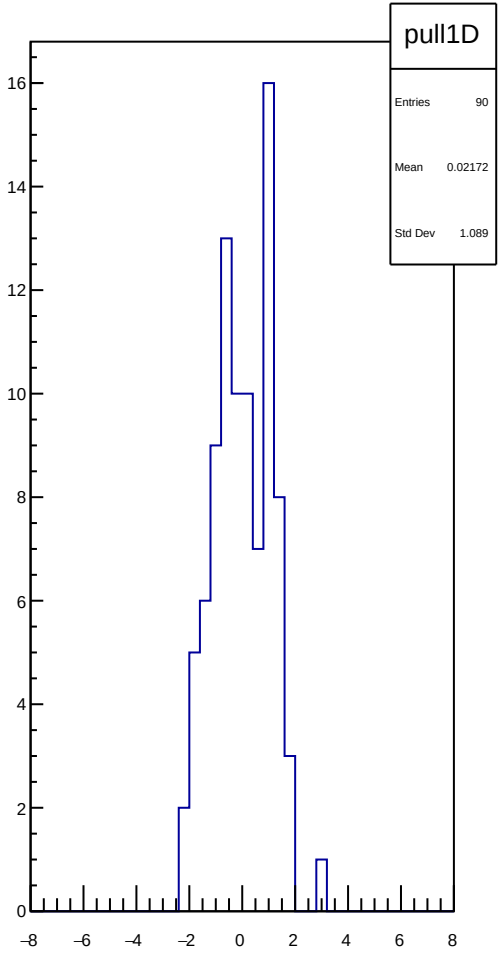

cor_asym_sam_1357_avg_rms vs run
χ^2 / ndf 3.741e+04 / 89
p0 44.78 ± 0.0339
130
120
110
100
90
80
70
60
50
40

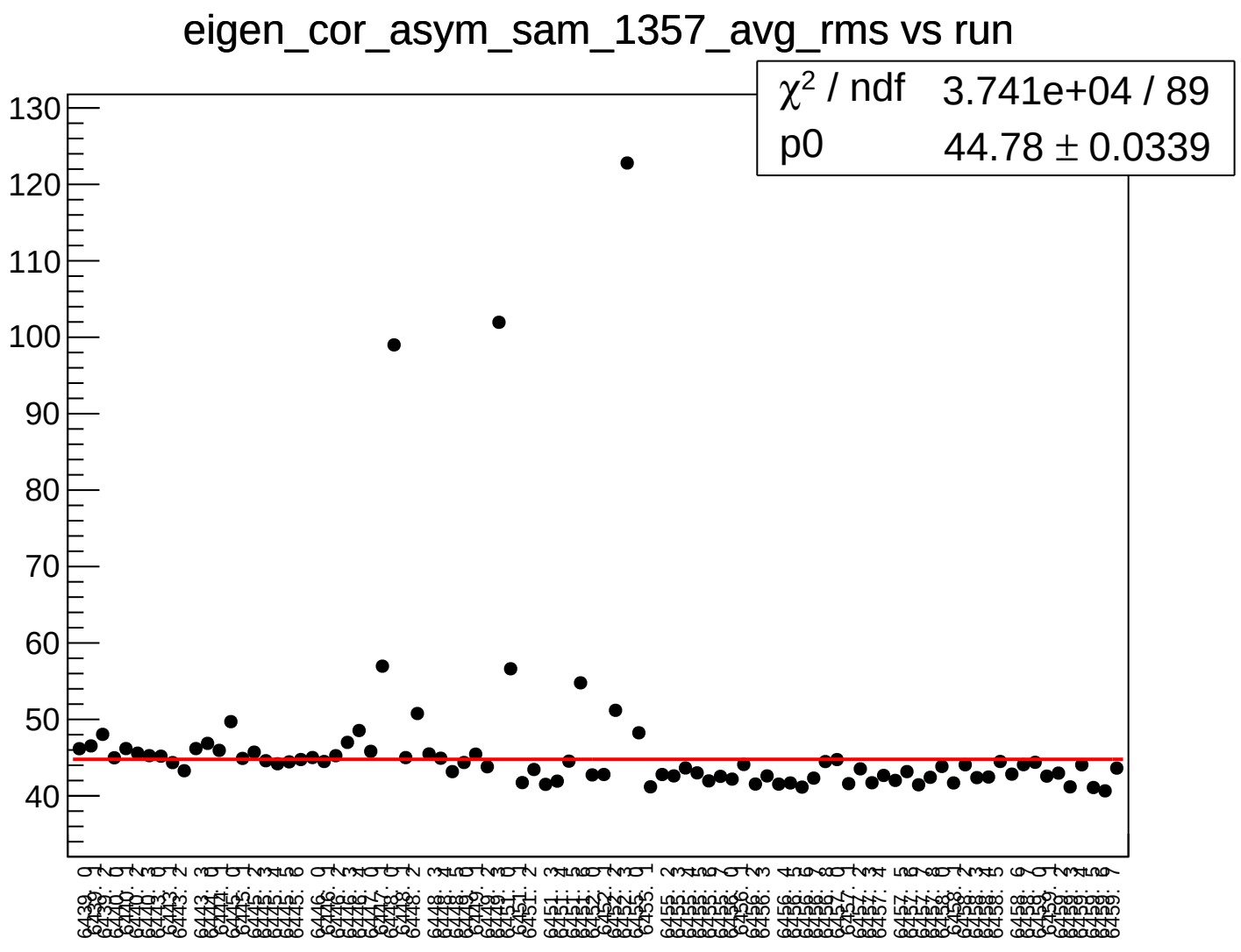

asym_sam_1357_avg_cor_correction_mean vs run
χ² / ndf 72.64 / 89
p0 −1345 ± 512.4
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 90
Mean −683.2
Std Dev 0
3
2
1
0
−1
−2

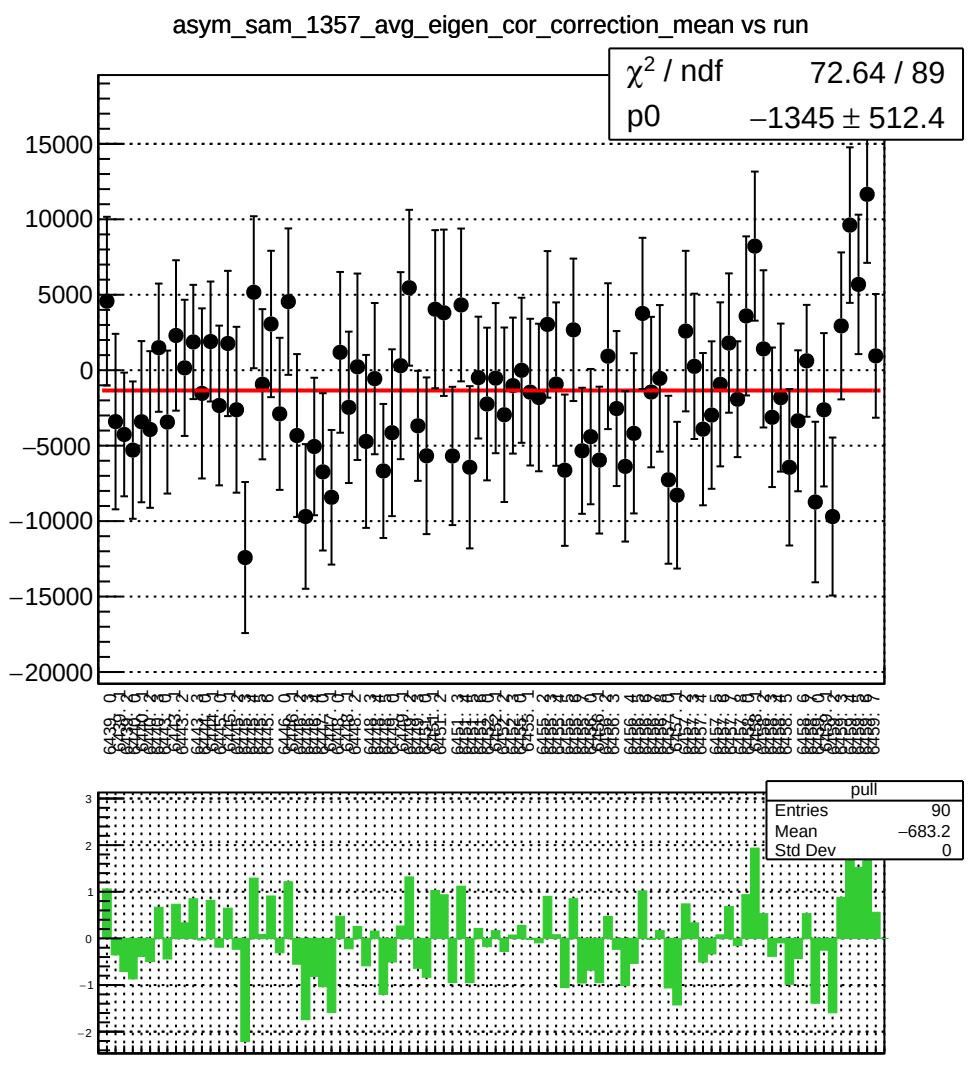

pull1D
Entries 90
Mean −0.00423
Std Dev 0.8984
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

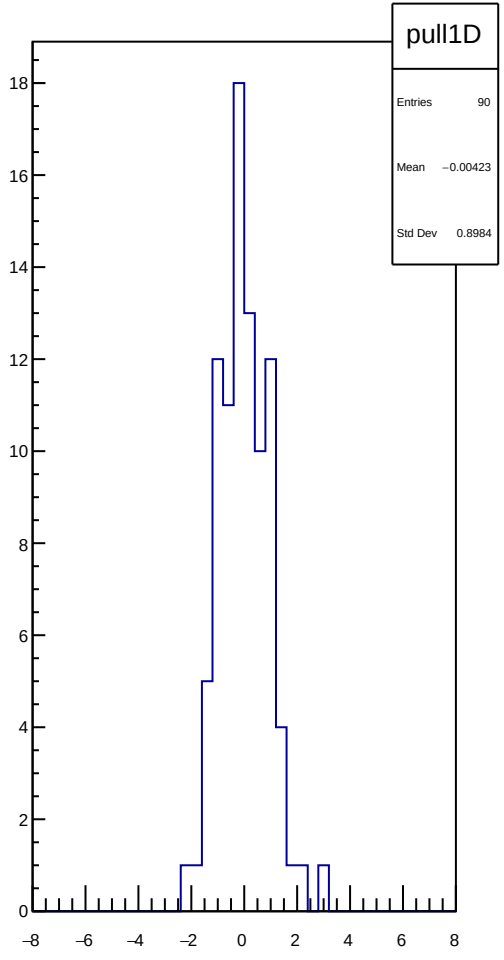

asym_sam_1357_avg_cor_correction_rms vs run
χ² / ndf 8249 / 89
p0 482.5 ± 0.3623
600
580
560
540
520
500
480
460
440
420

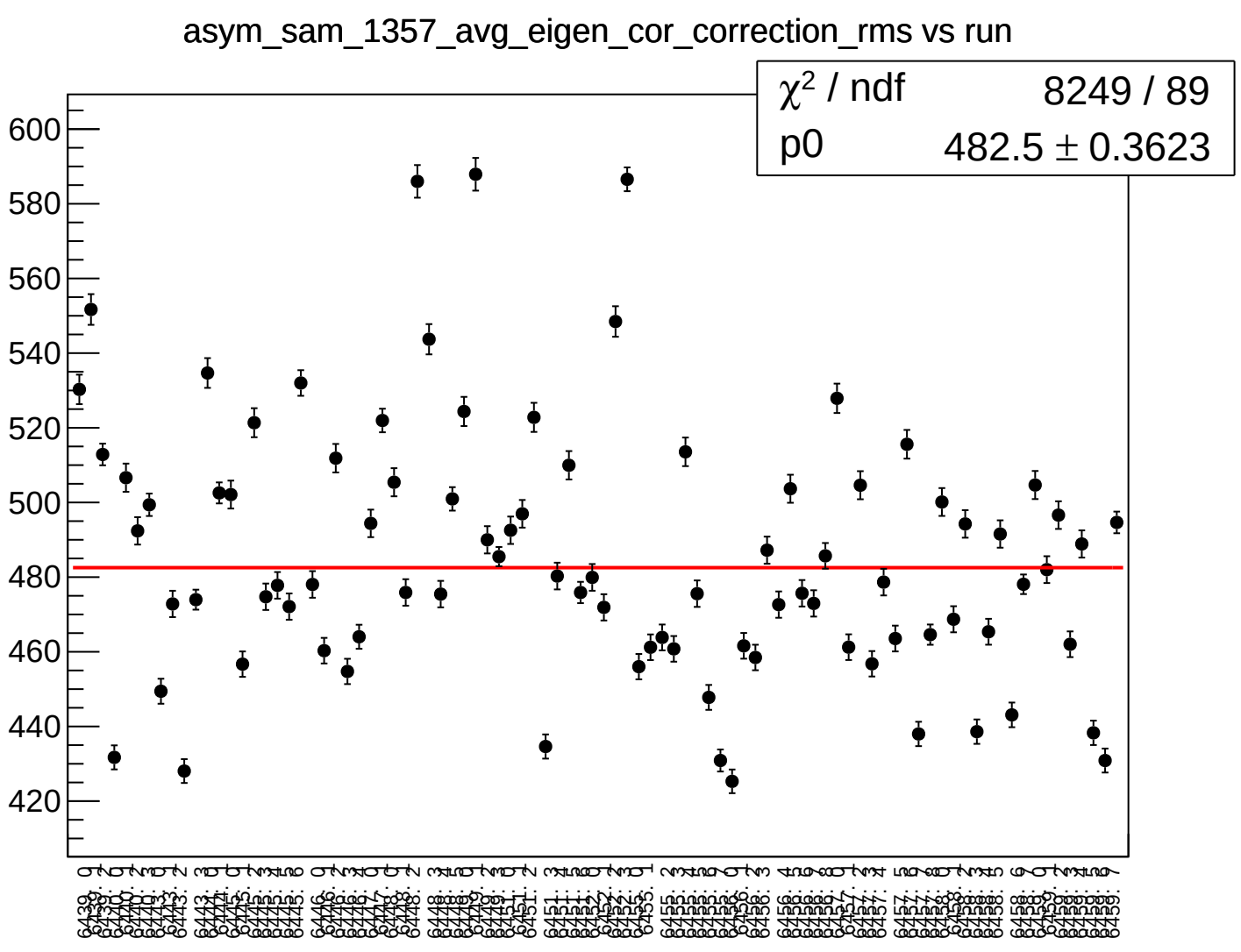

eigen_cor_asym_sam_1357_avg_mean vs run
χ² / ndf 106.8 / 89
p0 −21.87 ± 47.94
2000
1500
1000
500
0
−500
−1000
−1500
pull
Entries 90
Mean −45.19
Std Dev 0
3
2
1
0
−1
−2

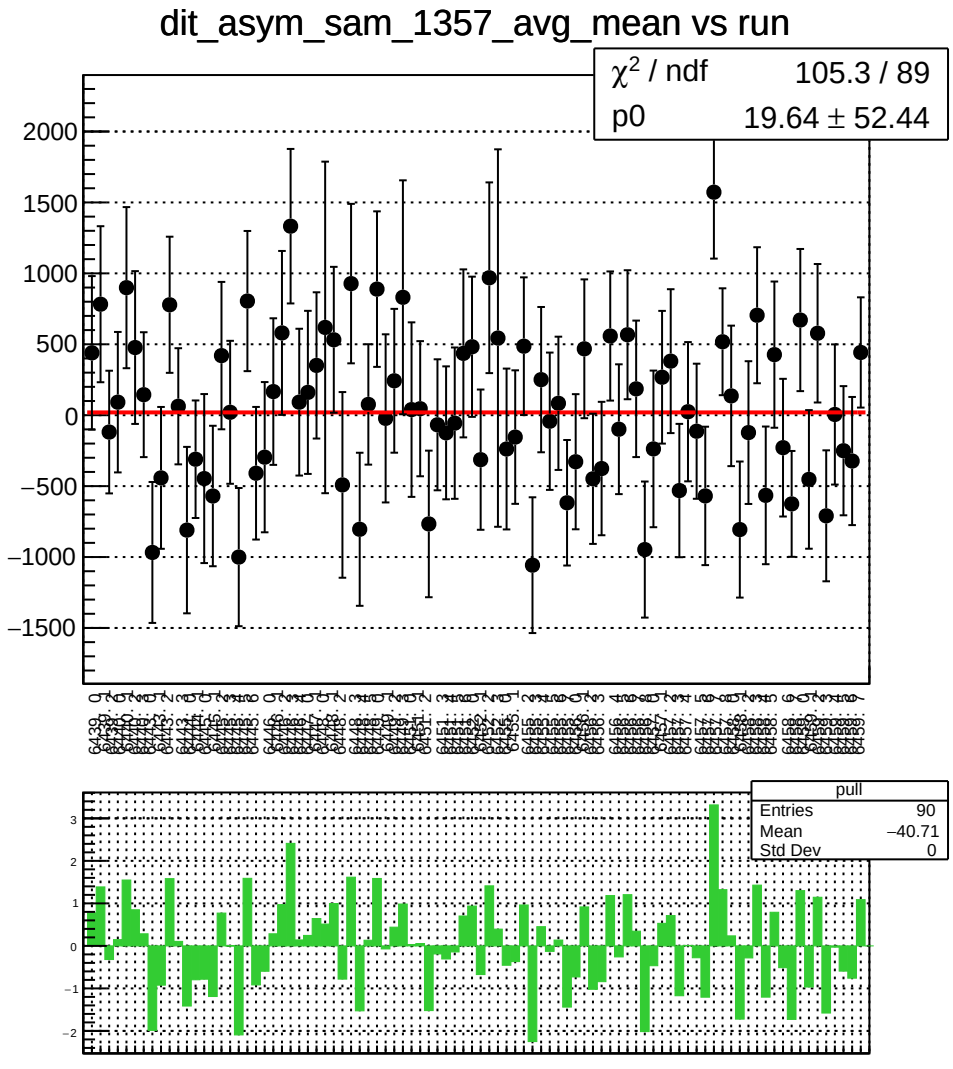

pull1D
Entries 90
Mean 0.02172
Std Dev 1.089
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

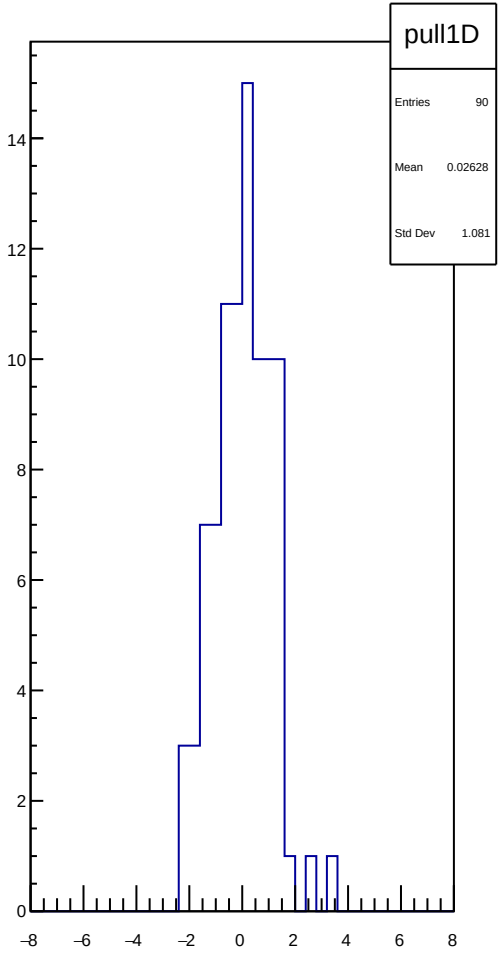

eigen_cor_asym_sam_1357_avg_rms vs run
χ² / ndf 3.741e+04 / 89
p0 44.78 ± 0.0339
130
120
110
100
90
80
70
60
50
40

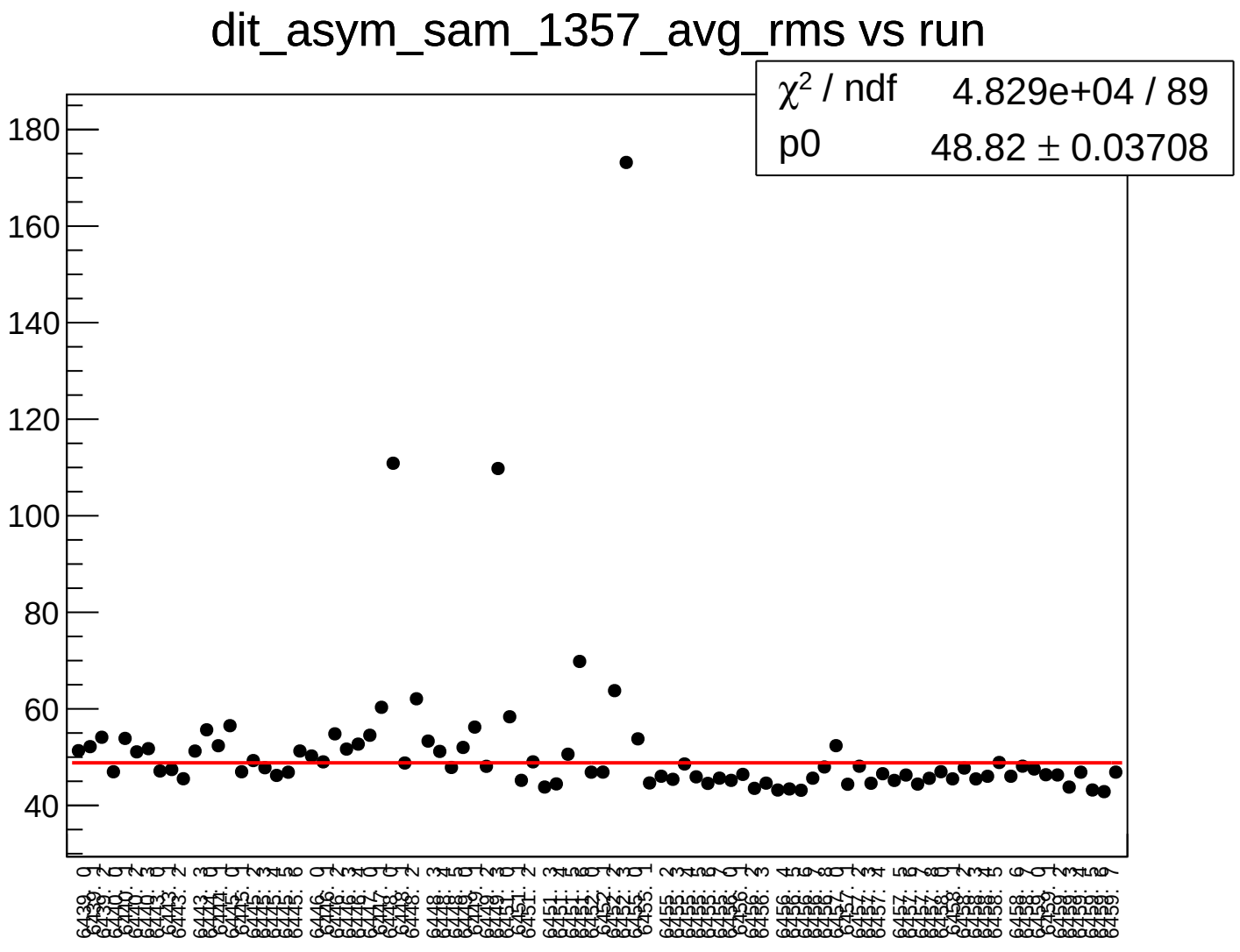

asym_sam_1357_avg_eigen_cor_correction_mean vs run
χ² / ndf 72.64 / 89
p0 −1345 ± 512.4
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 90
Mean −683.2
Std Dev 0
3
2
1
0
−1
−2

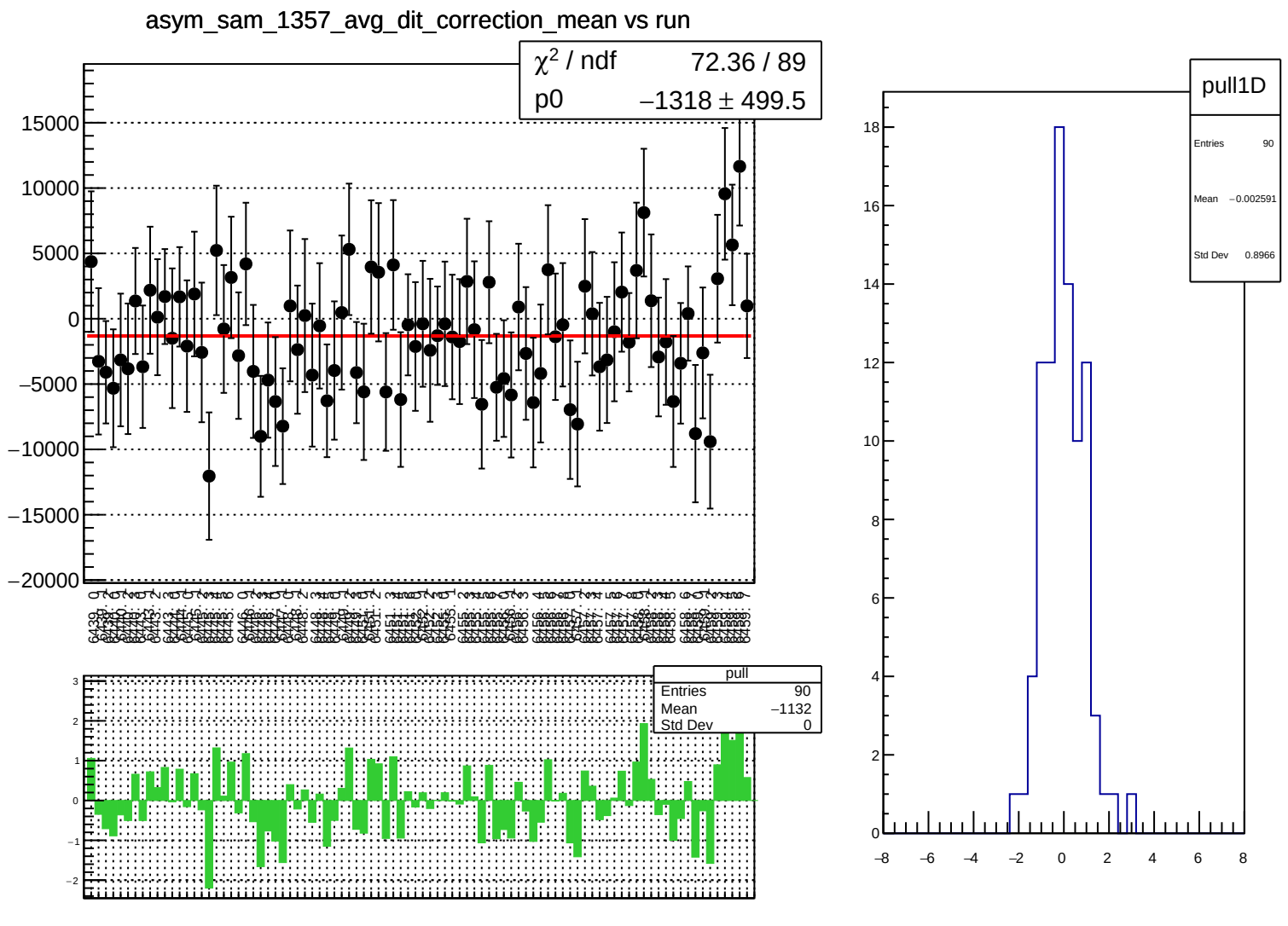

pull1D
Entries 90
Mean −0.00423
Std Dev 0.8984
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

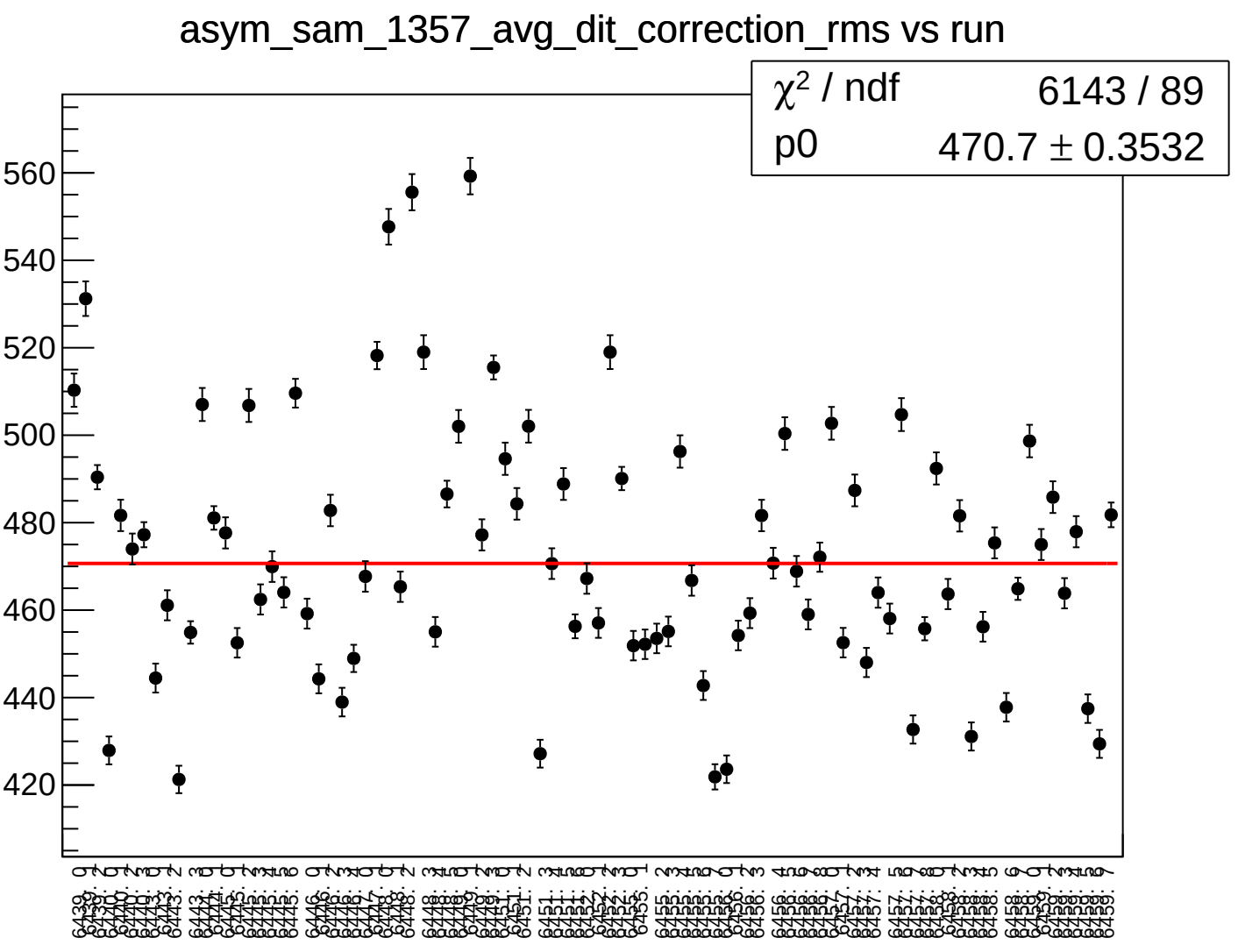

asym_sam_1357_avg_eigen_cor_correction_rms vs run
χ² / ndf 8249 / 89
p0 482.5 ± 0.3623
600
580
560
540
520
500
480
460
440
420

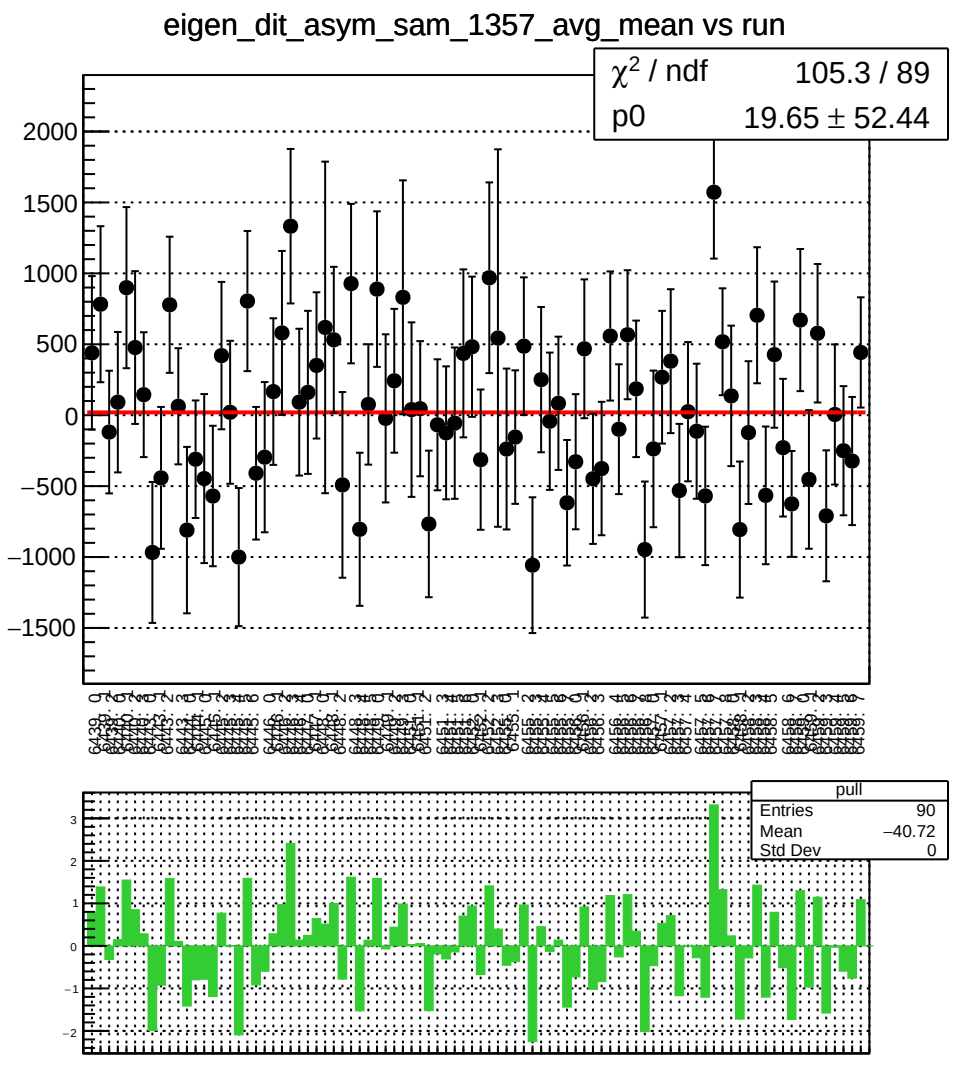

dit_asym_sam_1357_avg_mean vs run
χ² / ndf 105.3 / 89
p0 19.64 ± 52.44
pull
Entries 90
Mean −40.71
Std Dev 0

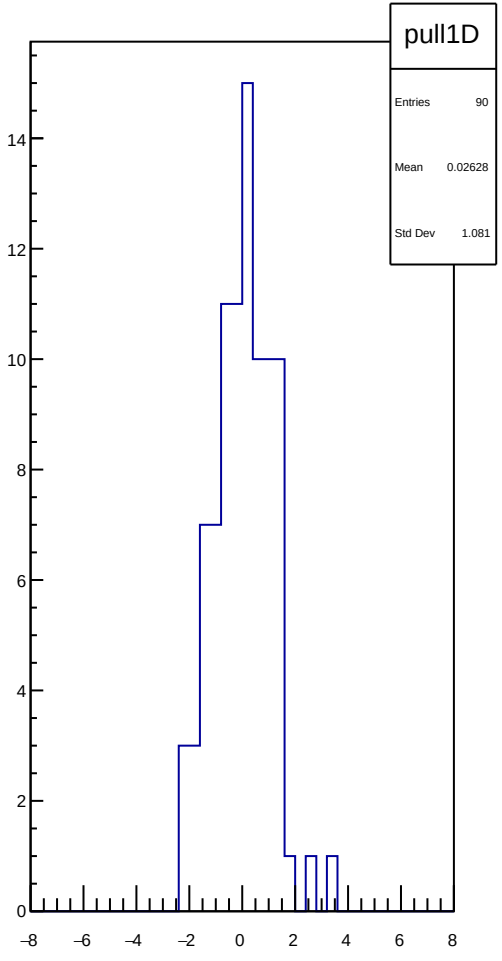

pull1D
Entries 90
Mean 0.02628
Std Dev 1.081

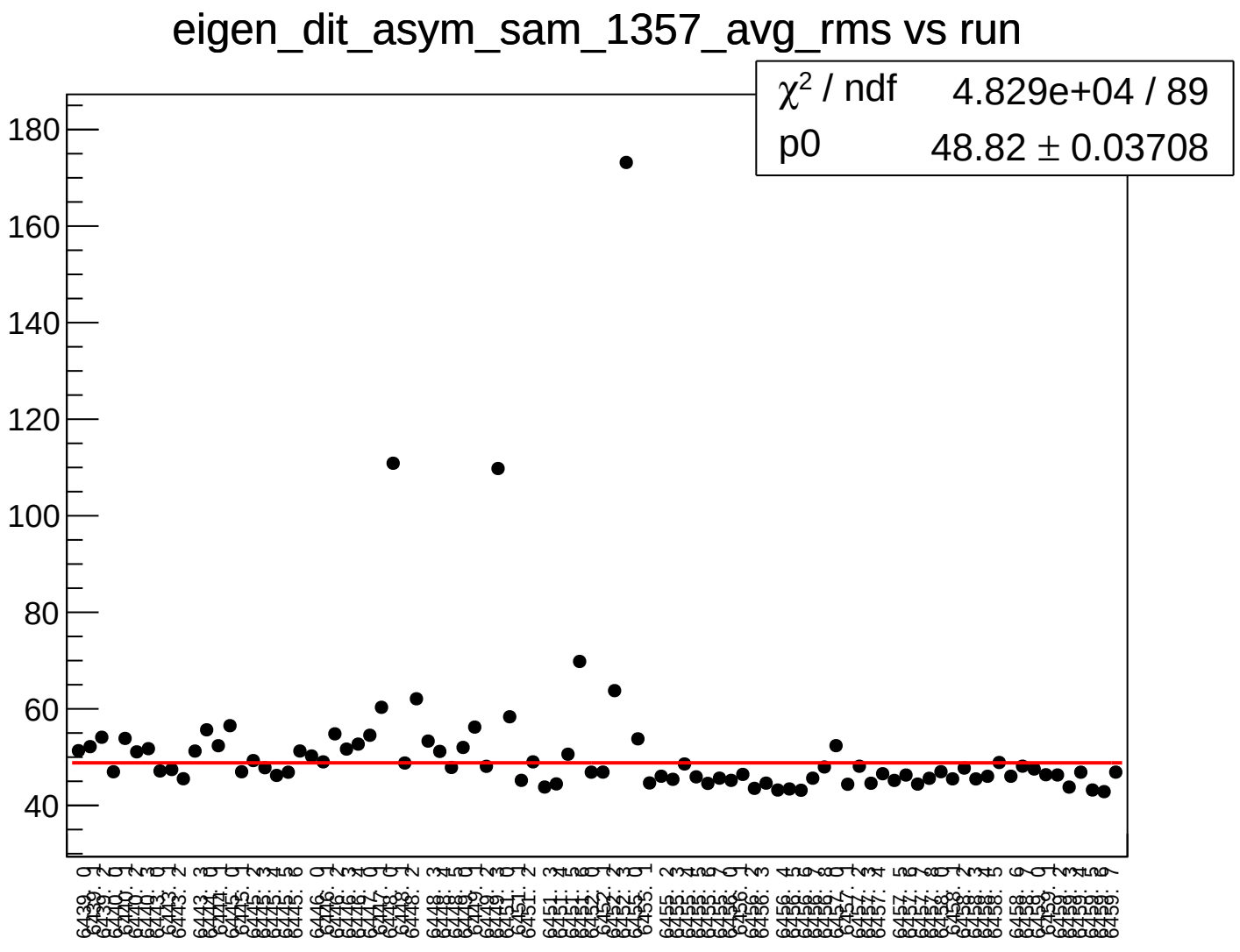

dit_asym_sam_1357_avg_rms vs run
χ² / ndf 4.829e+04 / 89
p0 48.82 ± 0.03708
180
160
140
120
100
80
60
40

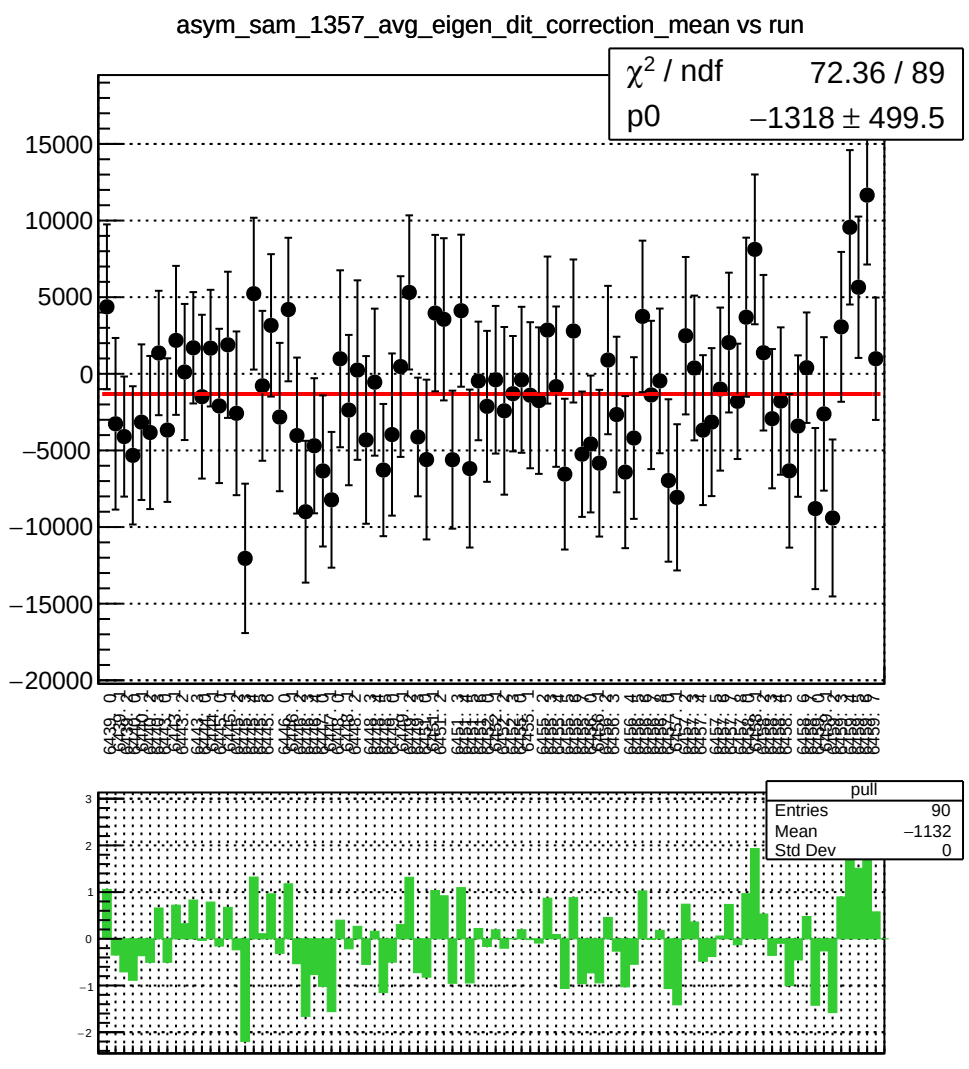

asym_sam_1357_avg_dit_correction_mean vs run
χ² / ndf 72.36 / 89
p0 −1318 ± 499.5
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 90
Mean −1132
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.002591
Std Dev 0.8966
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

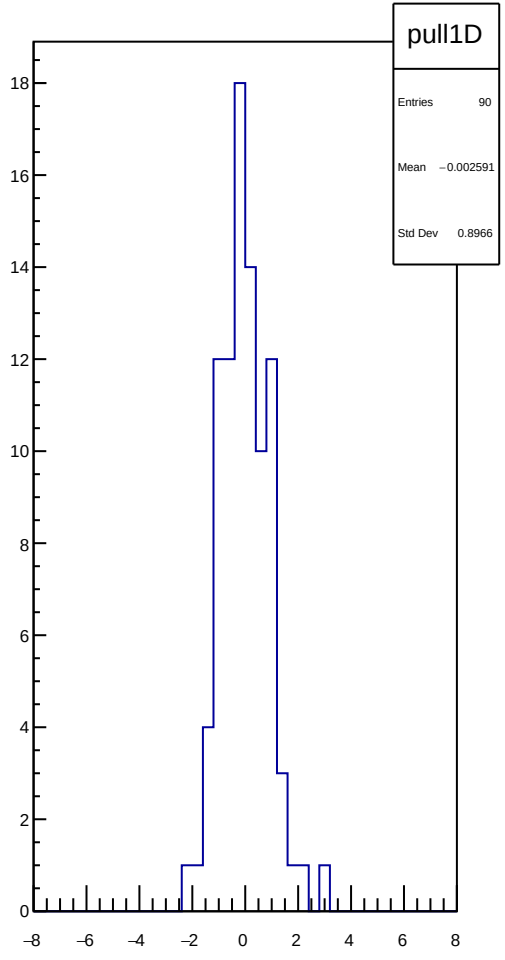

asym_sam_1357_avg_dit_correction_rms vs run
χ² / ndf 6143 / 89
p0 470.7 ± 0.3532
560
540
520
500
480
460
440
420

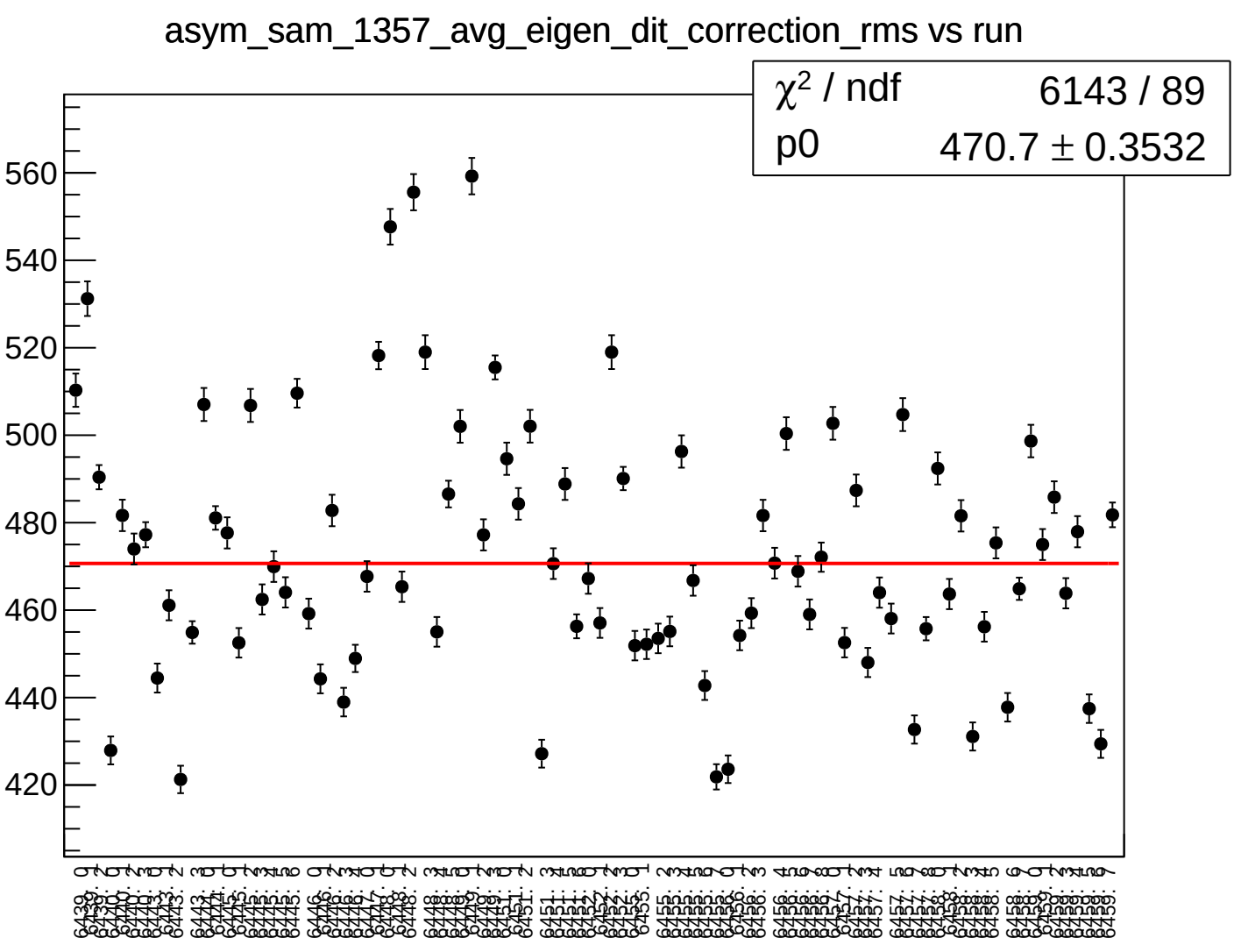

eigen_dit_asym_sam_1357_avg_mean vs run
χ^2 / ndf 105.3 / 89
p0 19.65 ± 52.44
pull
Entries 90
Mean −40.72
Std Dev 0

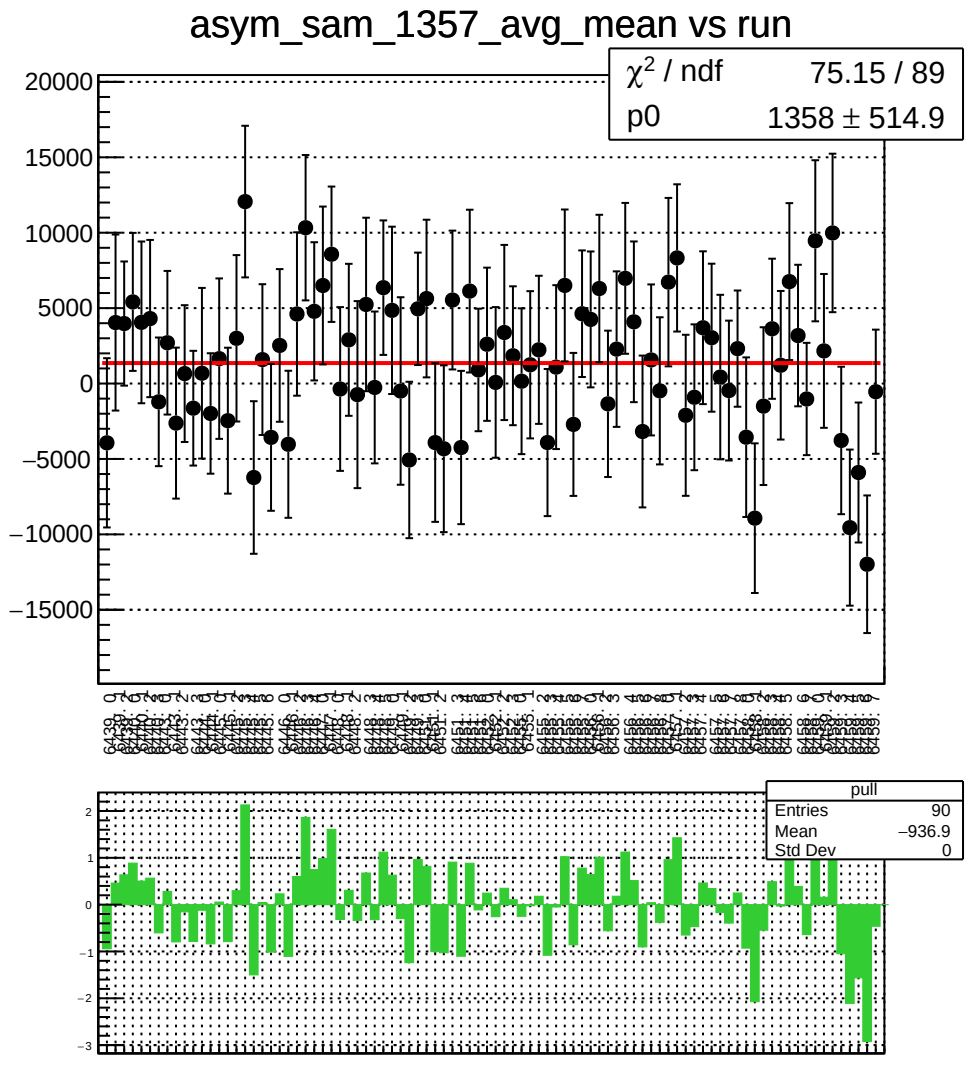

pull1D
Entries 90
Mean 0.02628
Std Dev 1.081

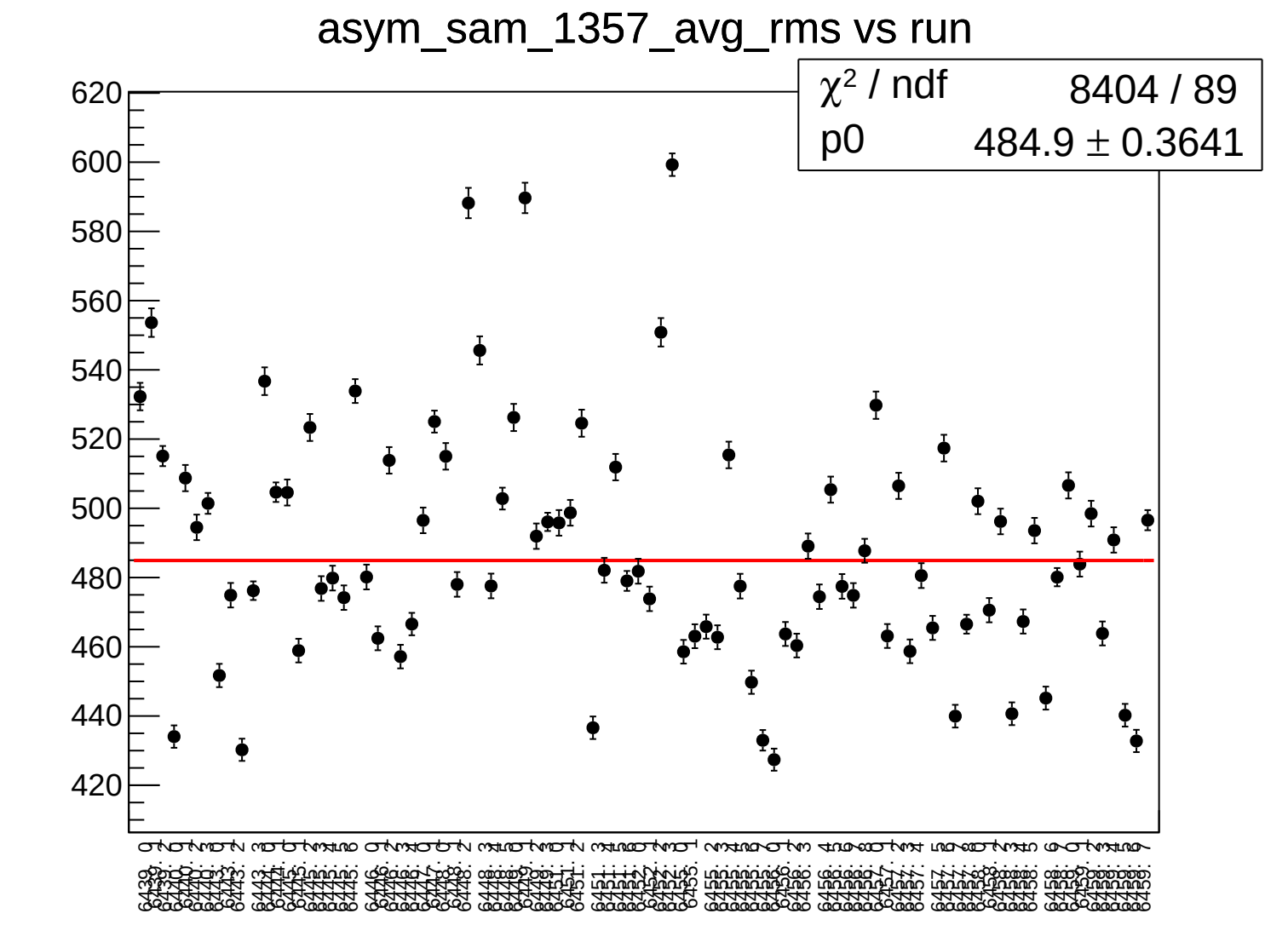

eigen_dit_asym_sam_1357_avg_rms vs run
χ² / ndf 4.829e+04 / 89
p0 48.82 ± 0.03708
180
160
140
120
100
80
60
40

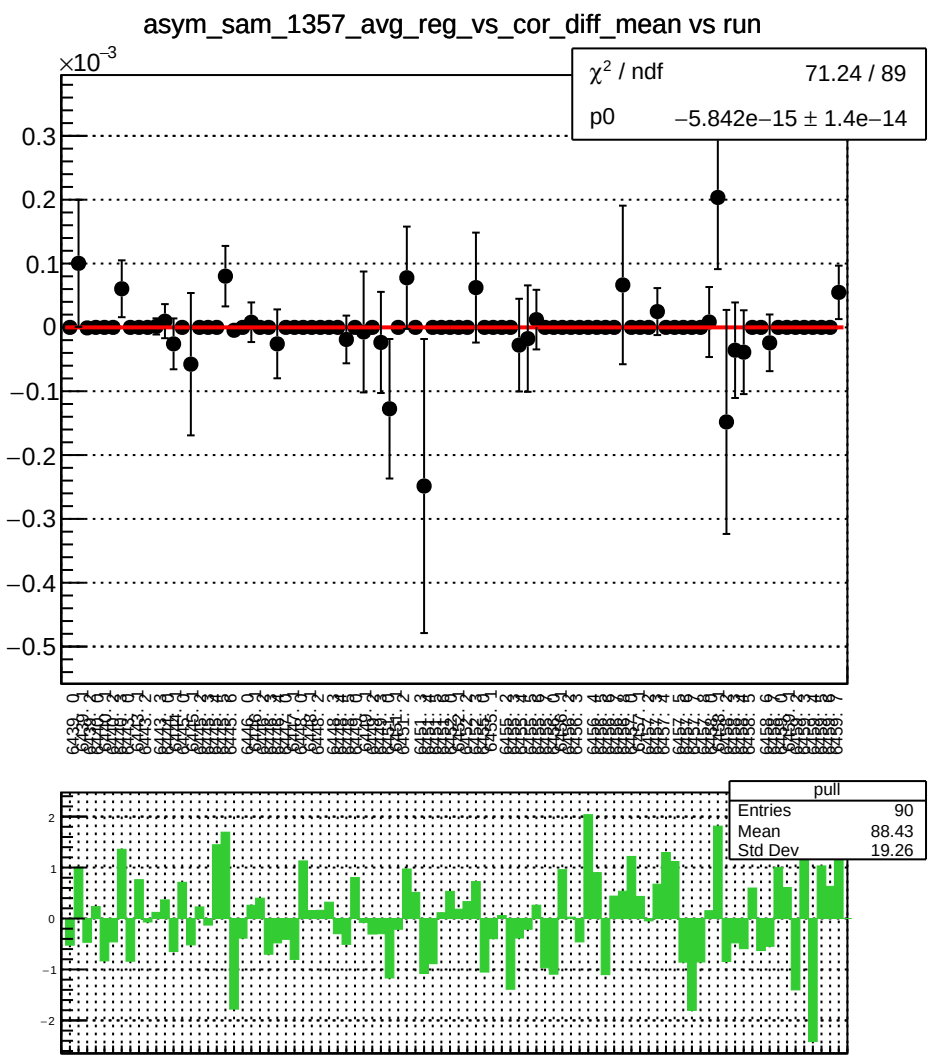

asym_sam_1357_avg_eigen_dit_correction_mean vs run
χ² / ndf 72.36 / 89
p0 −1318 ± 499.5
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 90
Mean −1132
Std Dev 0
3
2
1
0
−1
−2

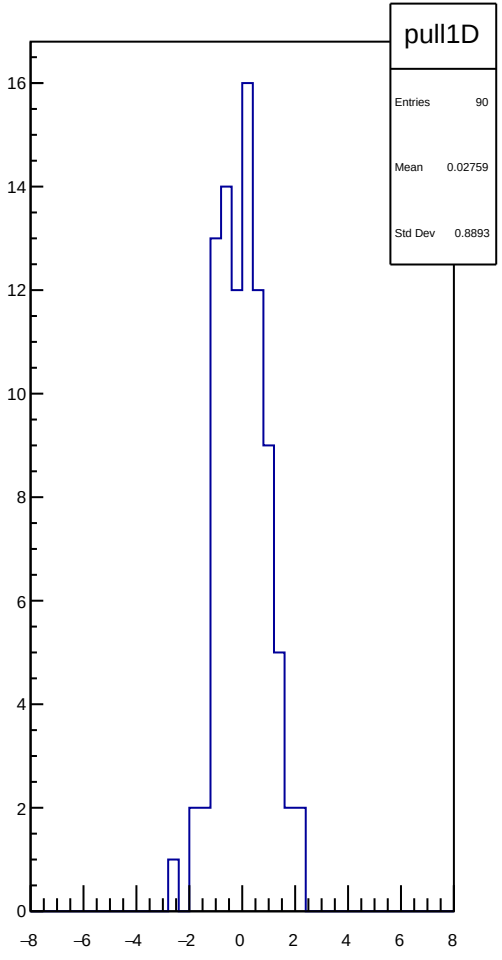

pull1D
Entries 90
Mean −0.002591
Std Dev 0.8966
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

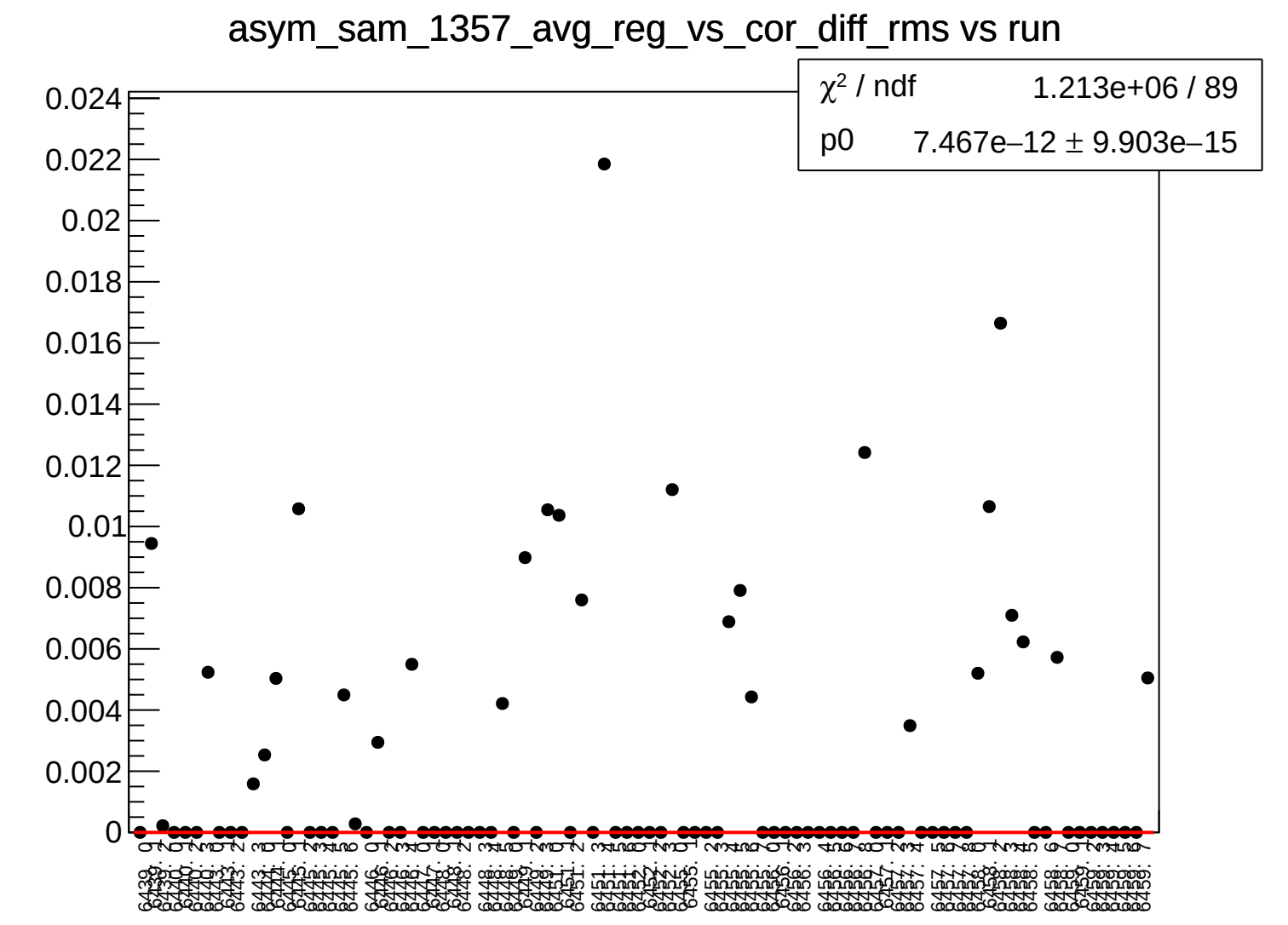

asym_sam_1357_avg_eigen_dit_correction_rms vs run
χ² / ndf 6143 / 89
p0 470.7 ± 0.3532
560
540
520
500
480
460
440
420

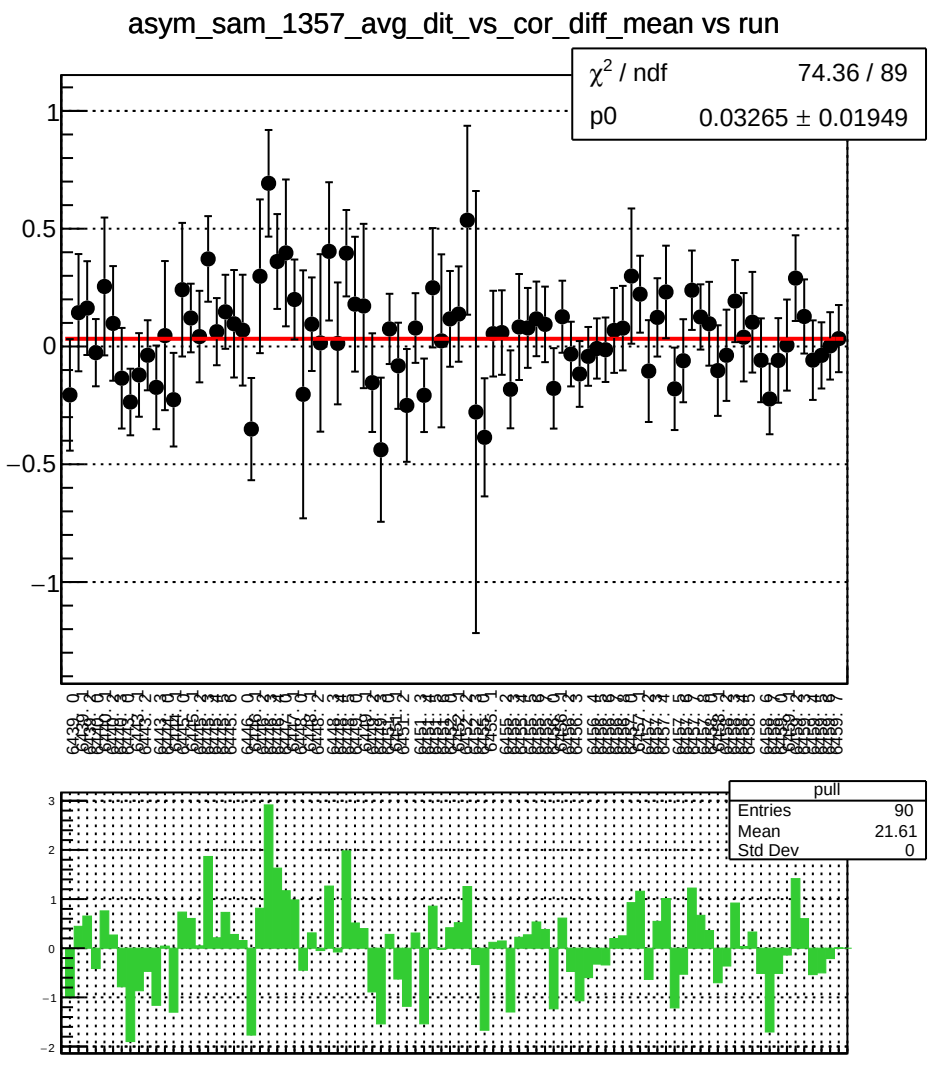

asym_sam_1357_avg_mean vs run
χ² / ndf 75.15 / 89
p0 1358 ± 514.9
pull
Entries 90
Mean −936.9
Std Dev 0
pull1D
Entries 90
Mean 0.003332
Std Dev 0.9138

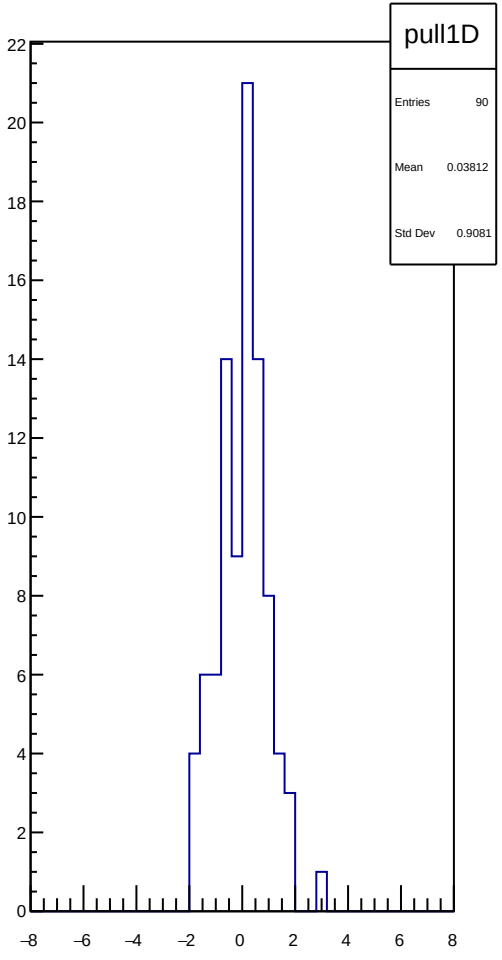

asym_sam_1357_avg_rms vs run
χ² / ndf 8404 / 89
p0 484.9 ± 0.3641
620
600
580
560
540
520
500
480
460
440
420

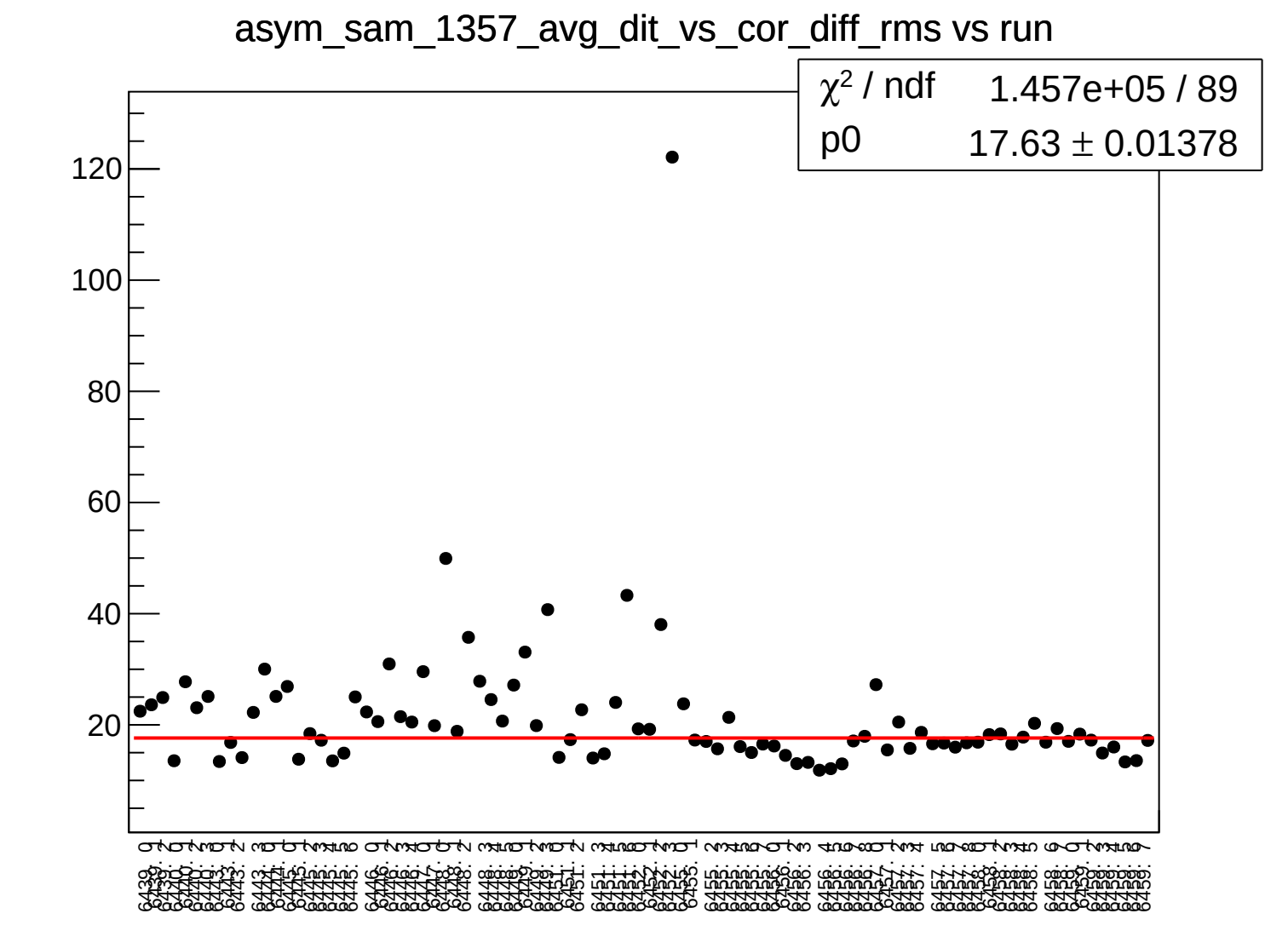

asym_sam_1357_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 71.24 / 89
p0 −5.842e−15 ± 1.4e−14
pull
Entries 90
Mean 88.43
Std Dev 19.26

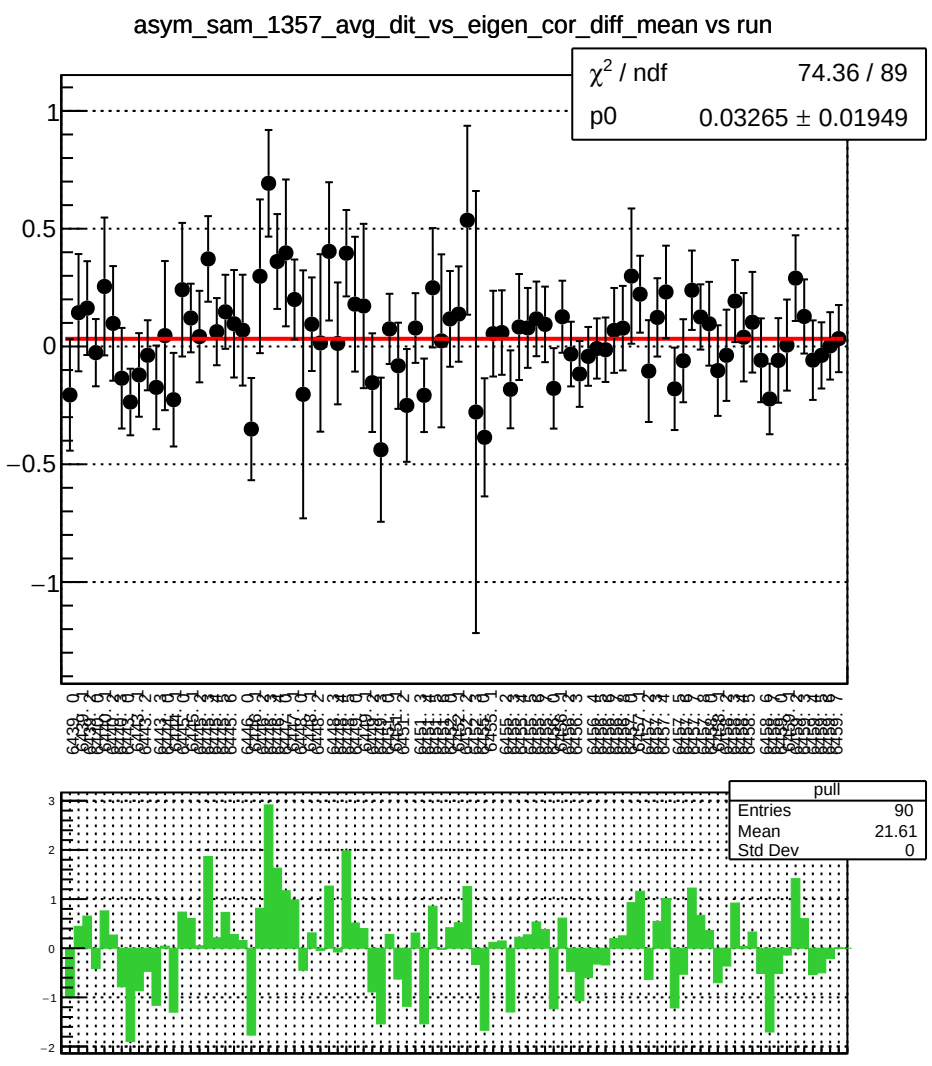

pull1D
Entries 90
Mean 0.02759
Std Dev 0.8893

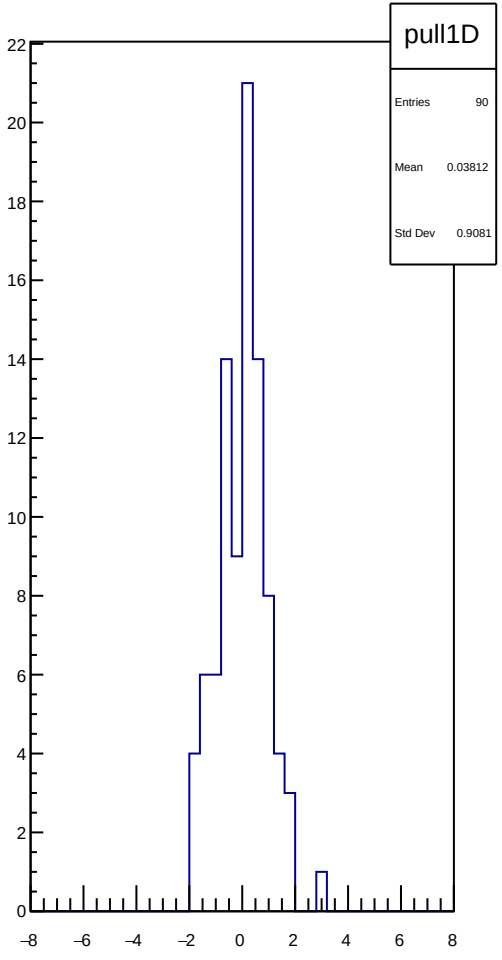

asym_sam_1357_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.213e+06 / 89
p0 7.467e−12 ± 9.903e−15
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0

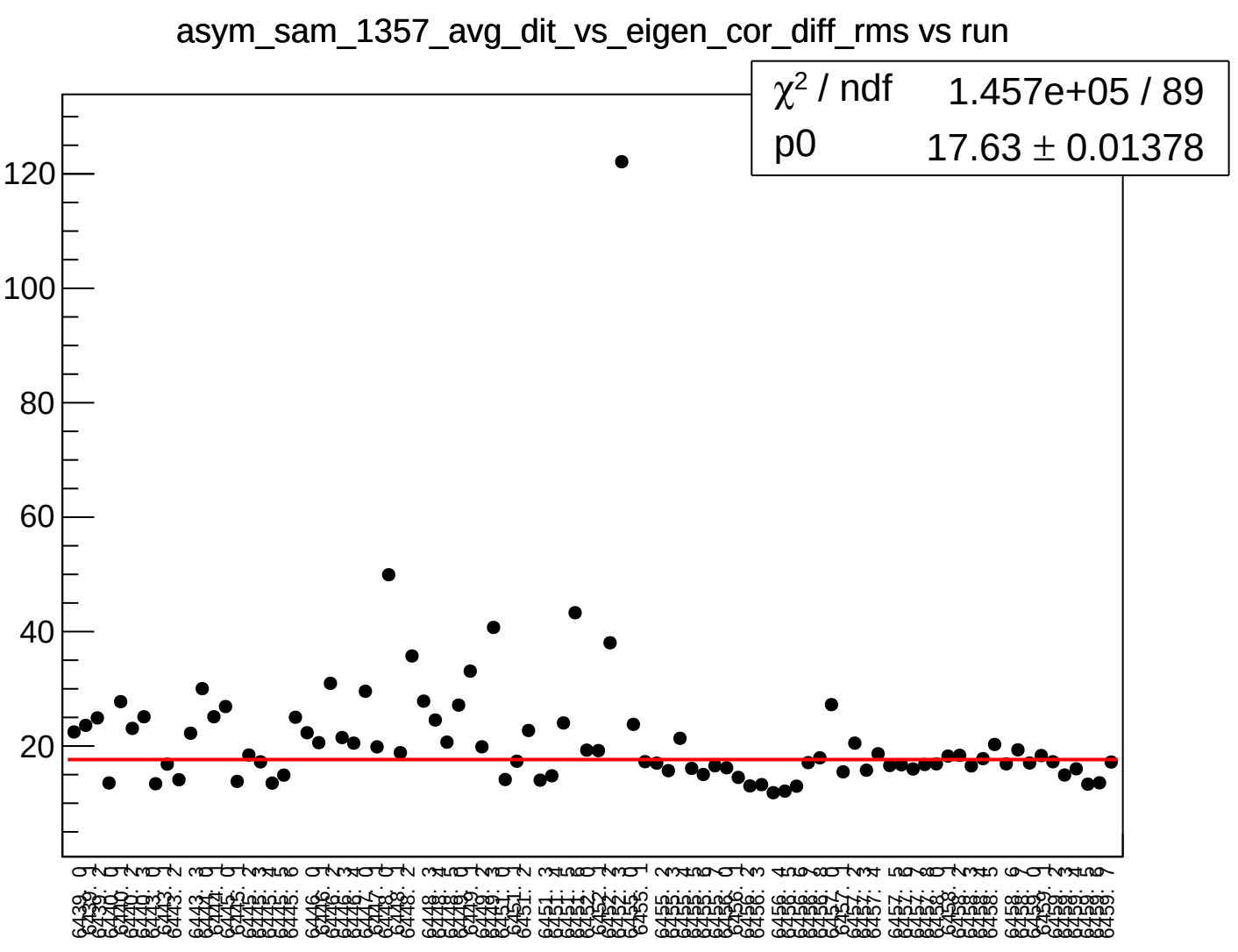

asym_sam_1357_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 74.36 / 89
p0 0.03265 ± 0.01949
pull
Entries 90
Mean 21.61
Std Dev 0

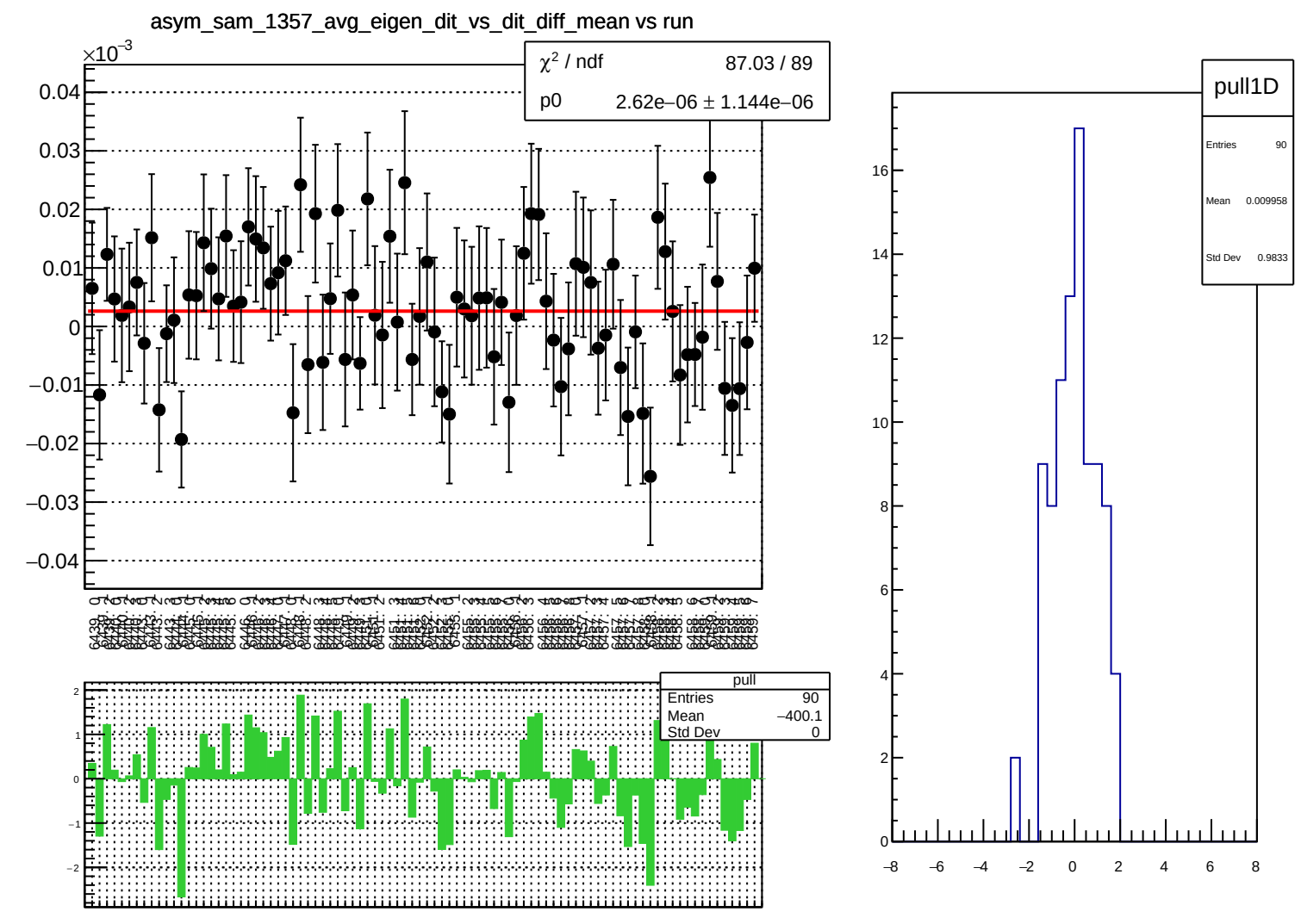

pull1D
Entries 90
Mean 0.03812
Std Dev 0.9081

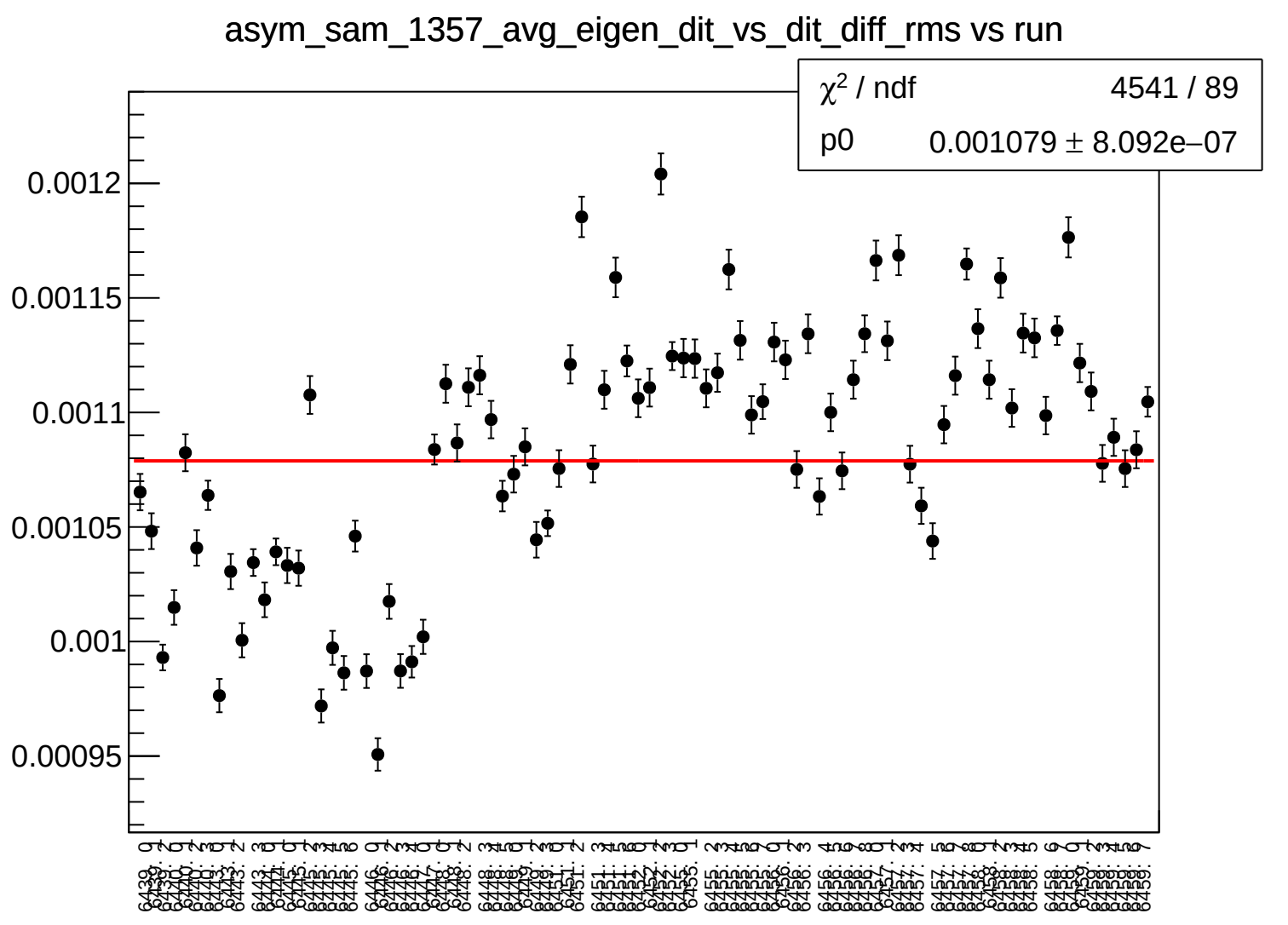

asym_sam_1357_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.457e+05 / 89
p0 17.63 ± 0.01378
120
100
80
60
40
20

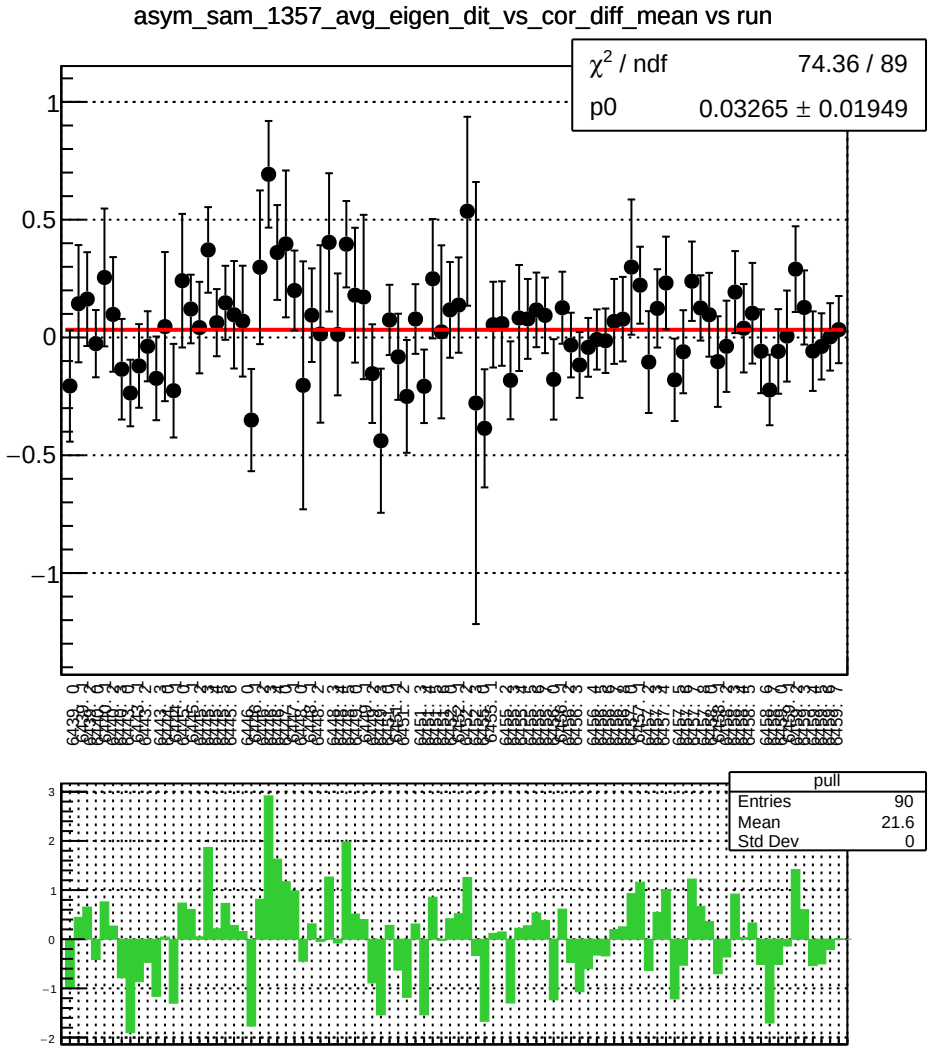

asym_sam_1357_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.36 / 89
p0 0.03265 ± 0.01949
pull
Entries 90
Mean 21.61
Std Dev 0

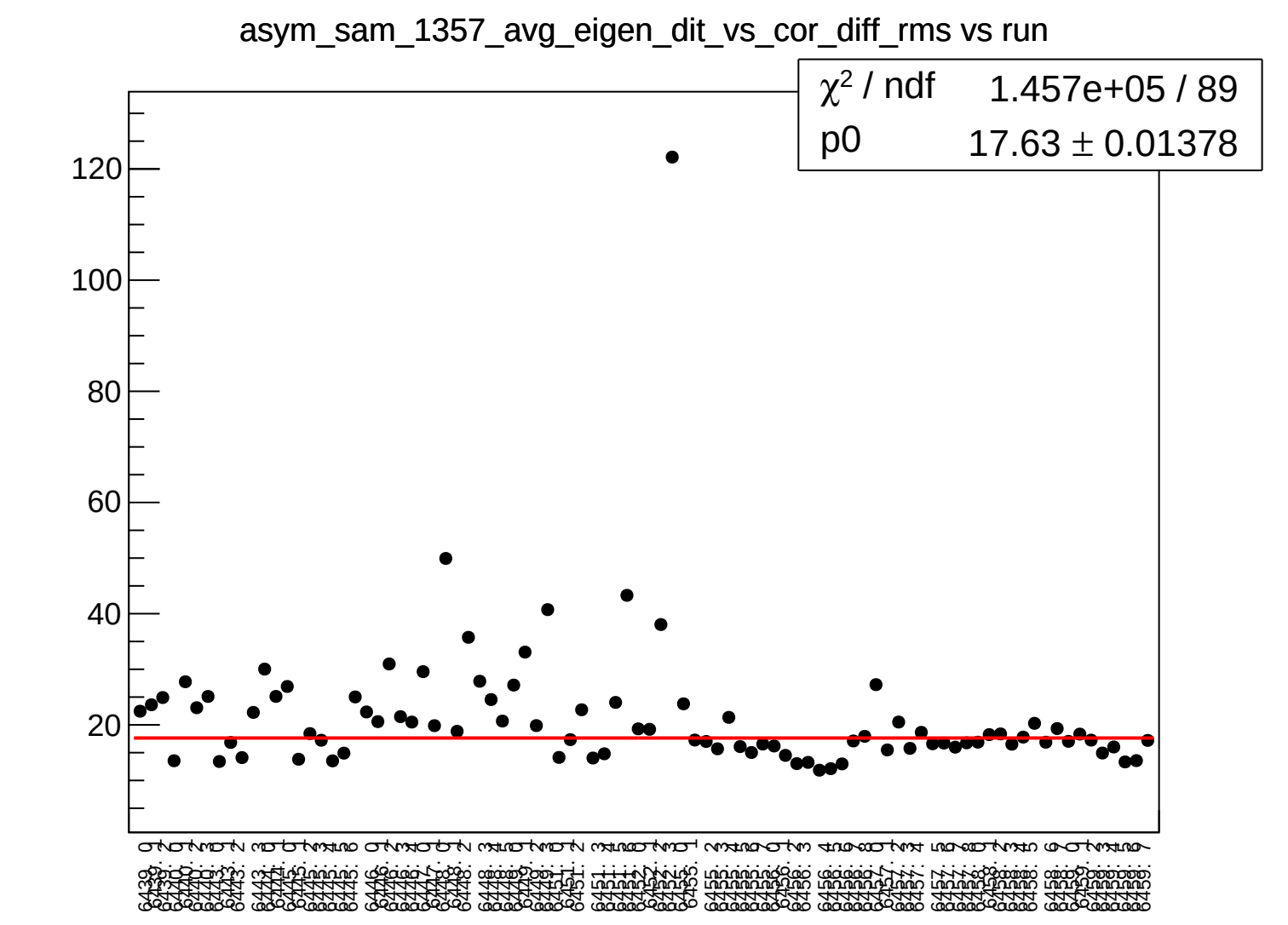

pull1D
Entries 90
Mean 0.03812
Std Dev 0.9081

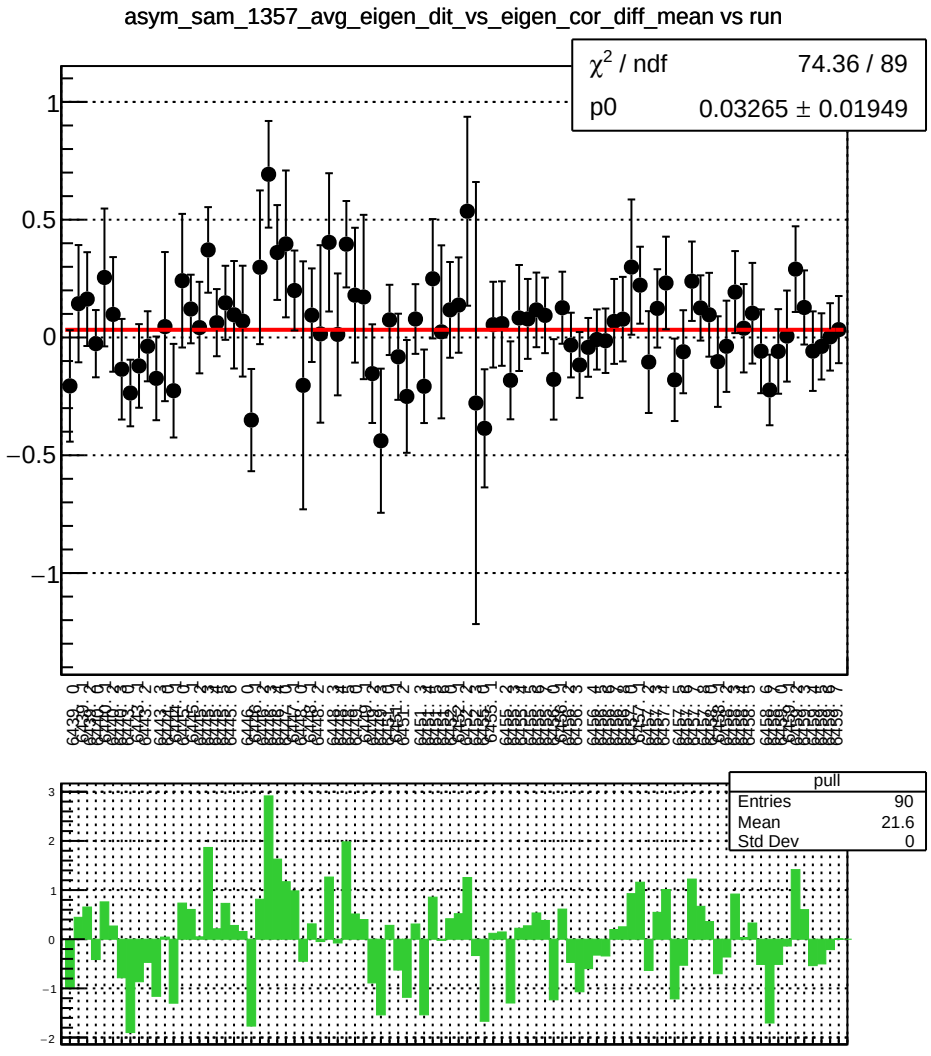

asym_sam_1357_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.457e+05 / 89
p0 17.63 ± 0.01378
120
100
80
60
40
20

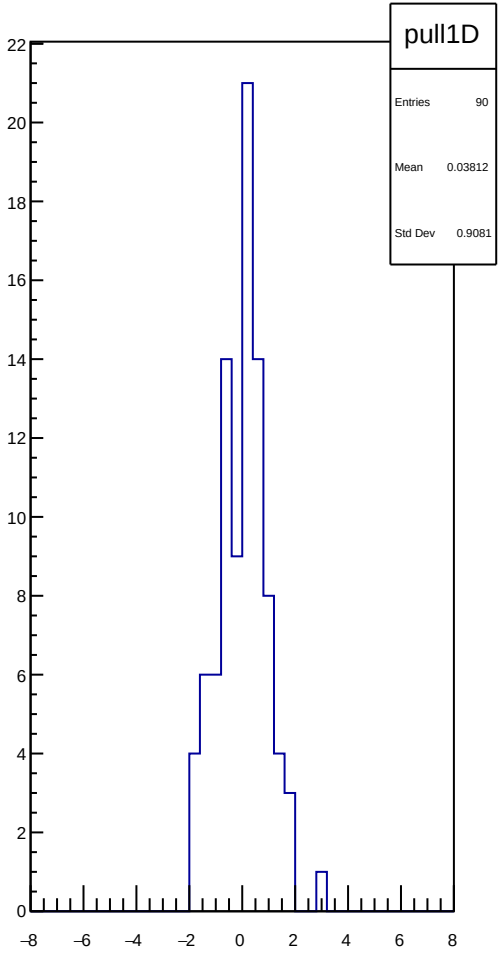

asym_sam_1357_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.03 / 89
p0 2.62e−06 ± 1.144e−06
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 90
Mean −400.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 90
Mean 0.009958
Std Dev 0.9833
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

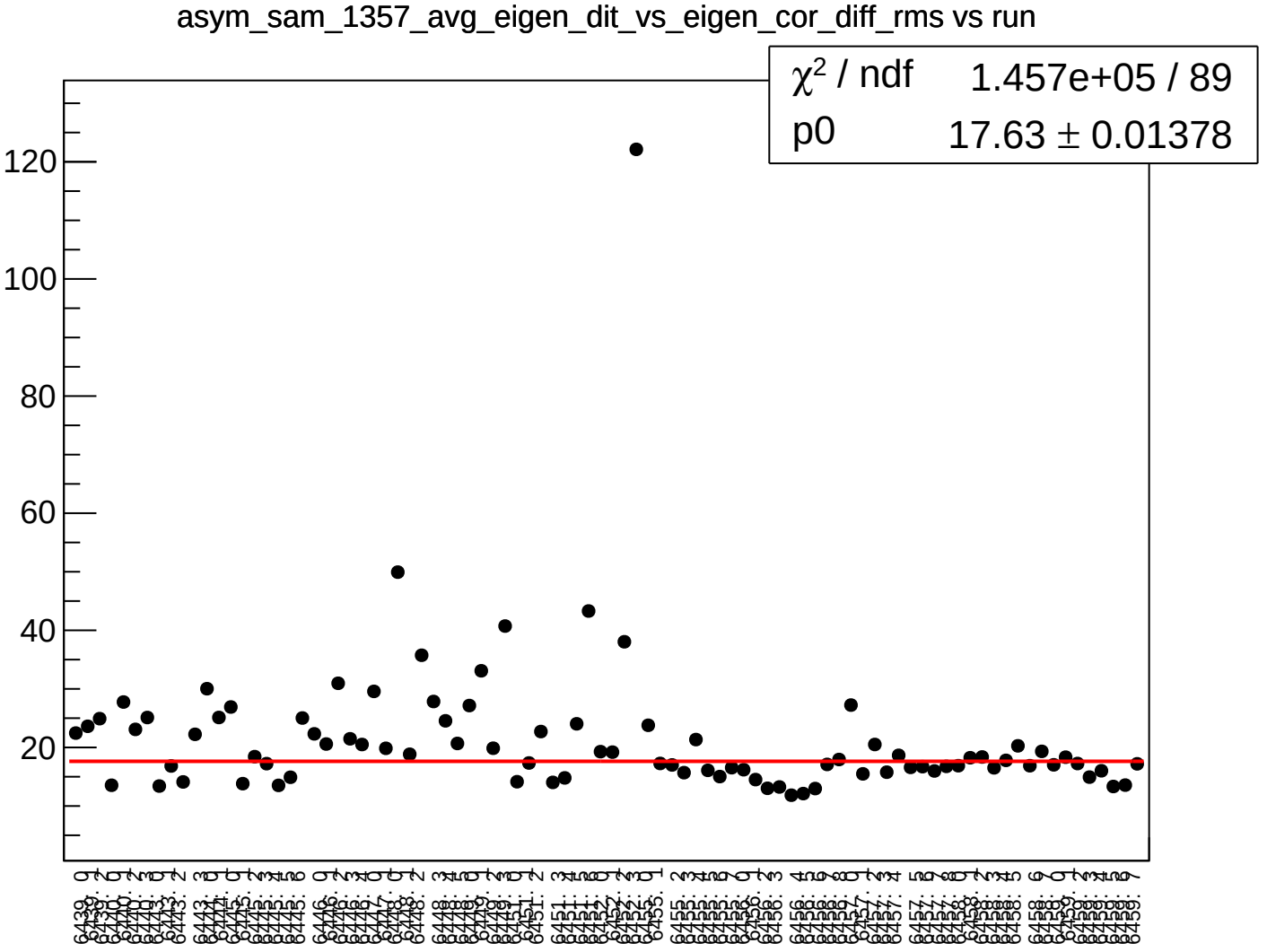

asym_sam_1357_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4541 / 89
p0 0.001079 ± 8.092e−07
0.0012
0.00115
0.0011
0.00105
0.001
0.00095

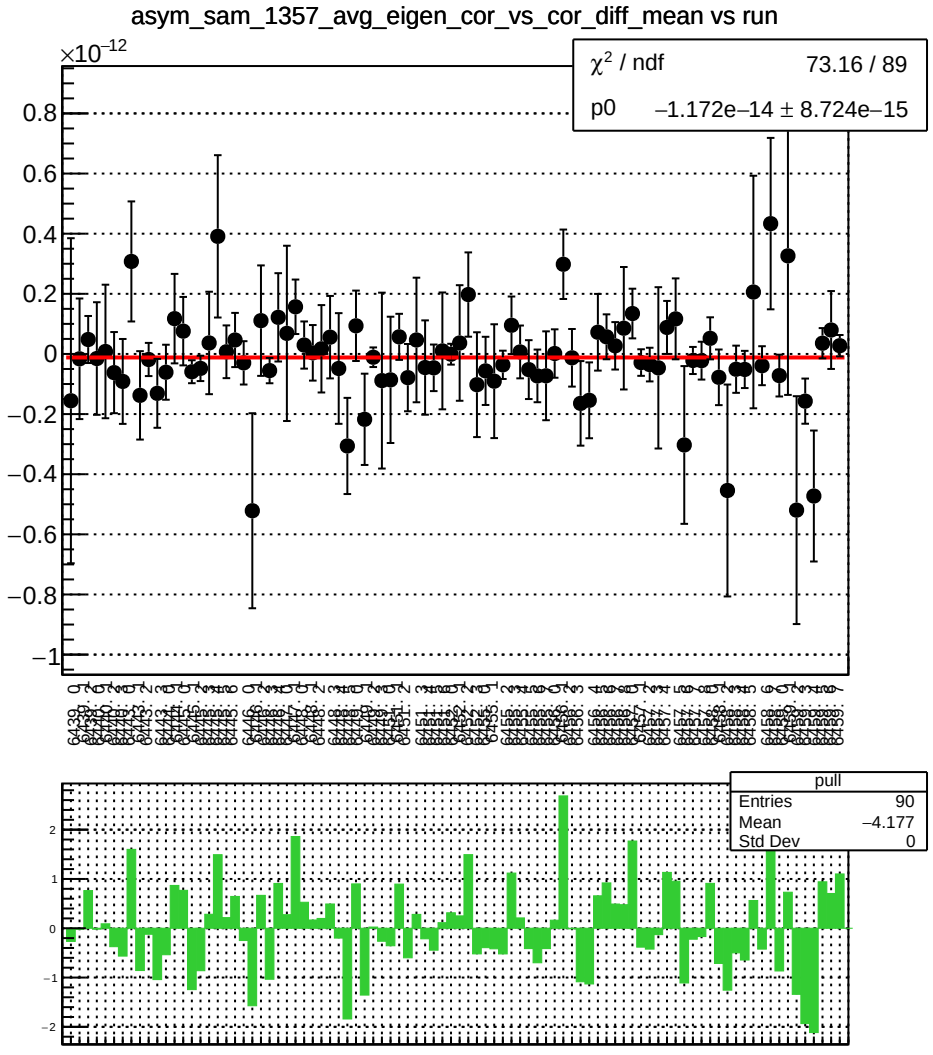

asym_sam_1357_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 74.36 / 89
p0 0.03265 ± 0.01949
pull
Entries 90
Mean 21.6
Std Dev 0
pull1D
Entries 90
Mean 0.03812
Std Dev 0.9081

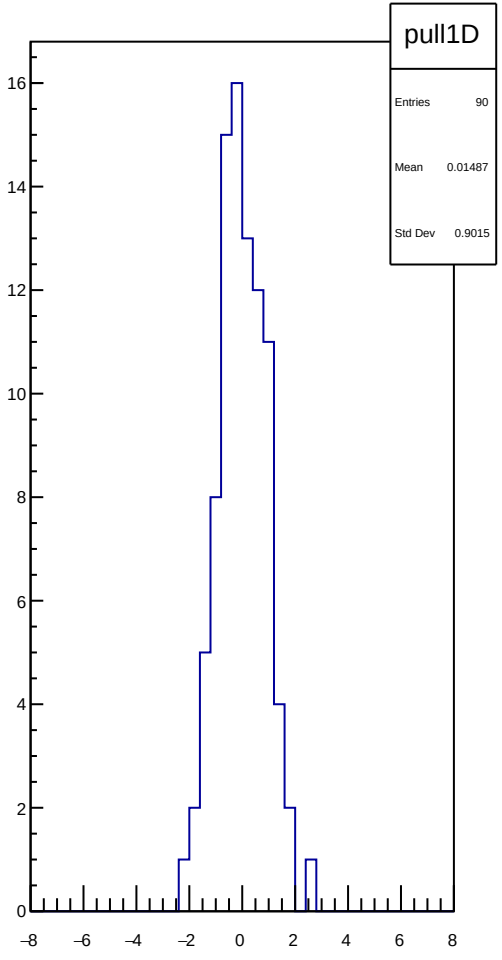

asym_sam_1357_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.457e+05 / 89
p0 17.63 ± 0.01378
120
100
80
60
40
20

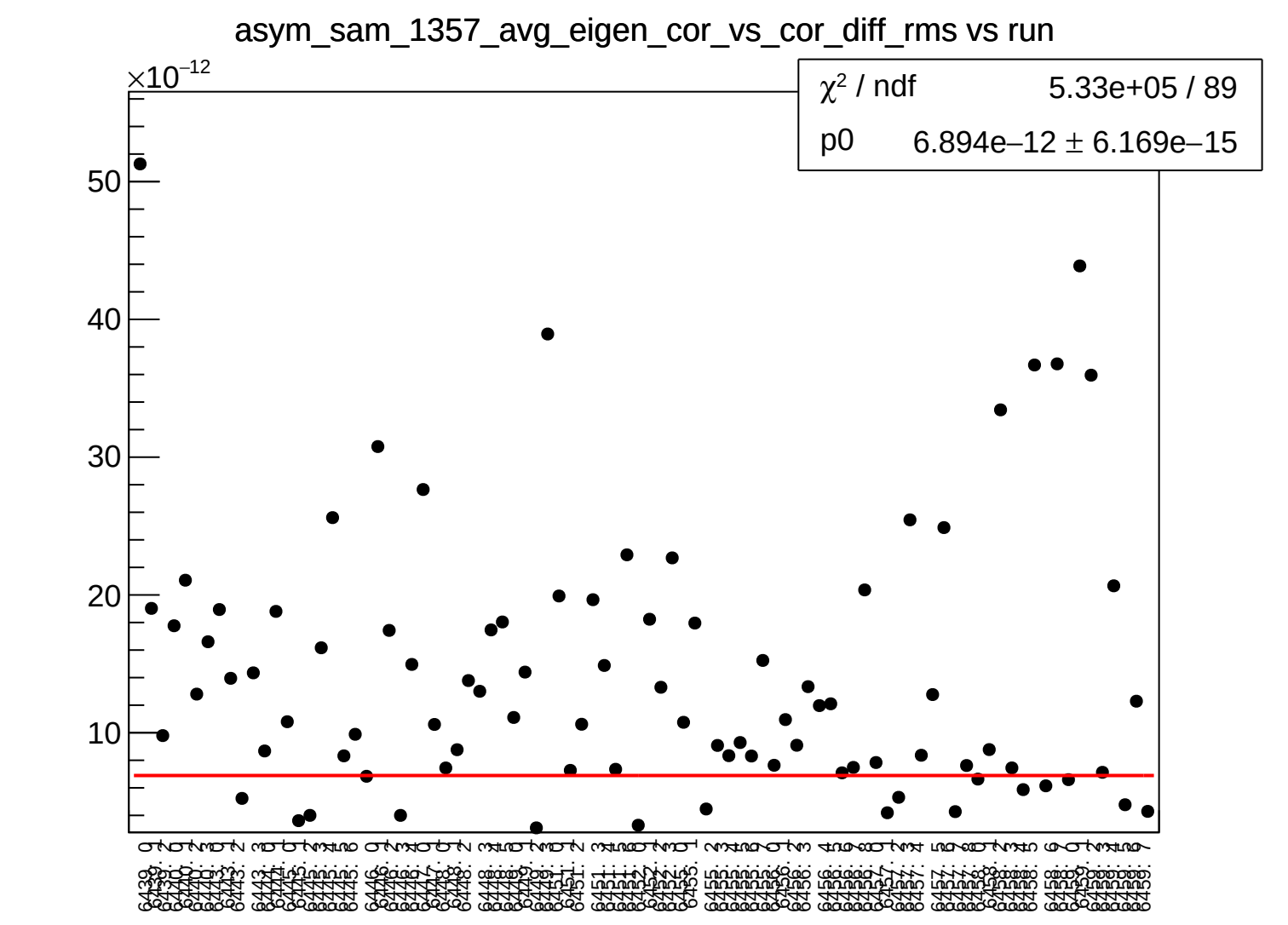

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.36 / 89
p0 0.03265 ± 0.01949
pull
Entries 90
Mean 21.6
Std Dev 0

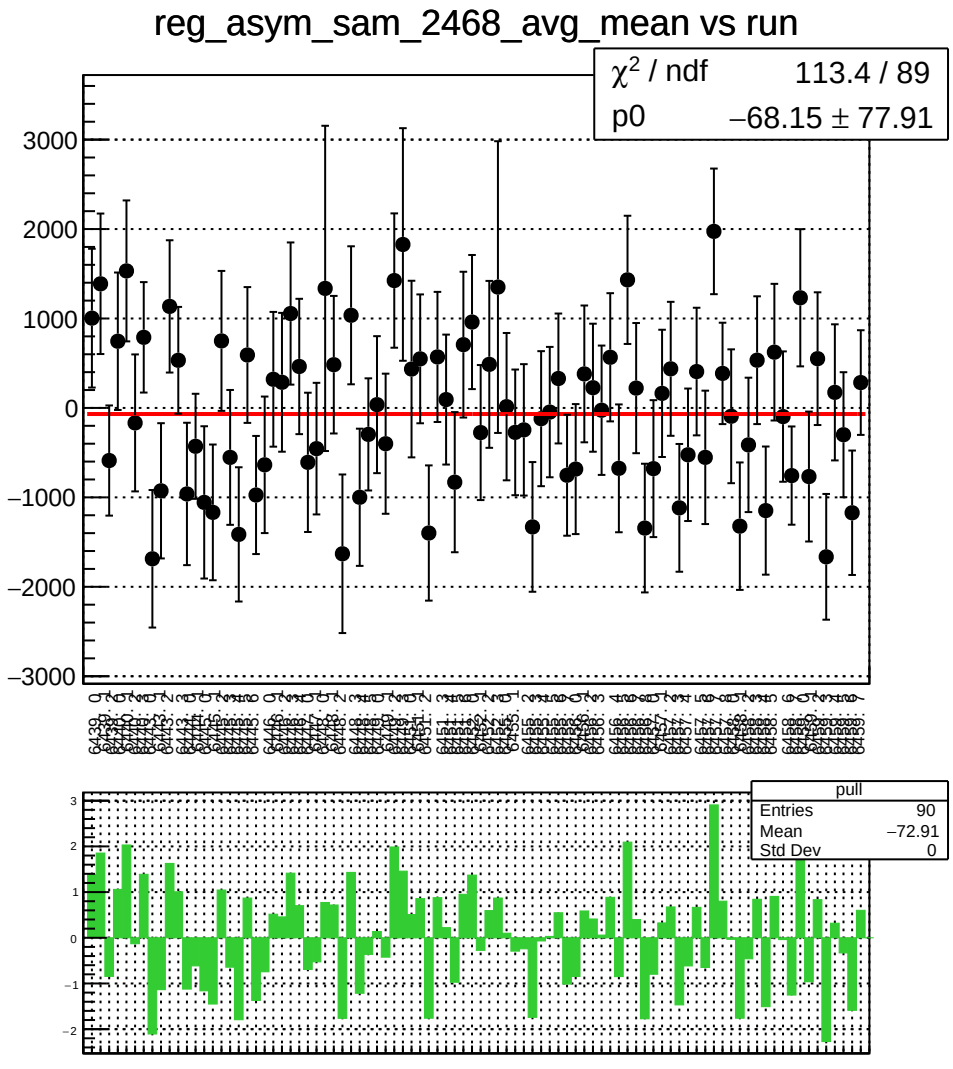

pull1D
Entries 90
Mean 0.03812
Std Dev 0.9081

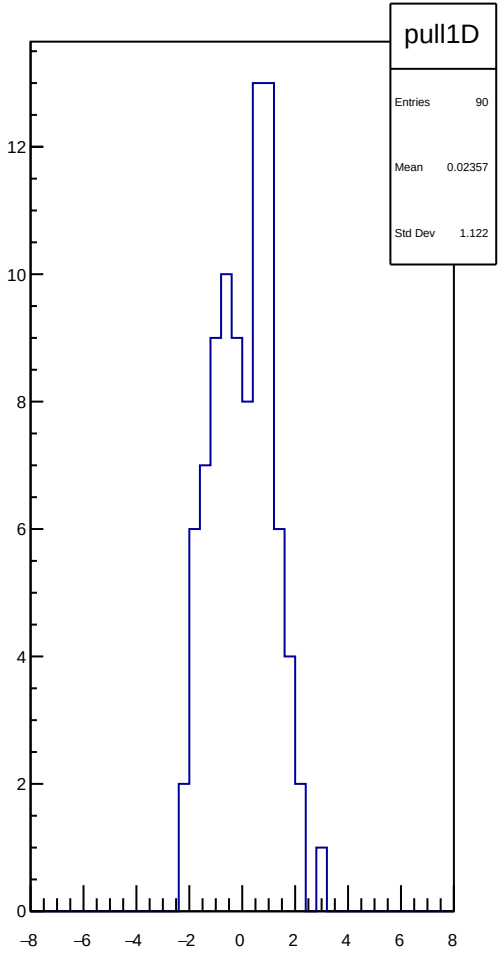

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.457e+05 / 89
p0 17.63 ± 0.01378
120
100
80
60
40
20

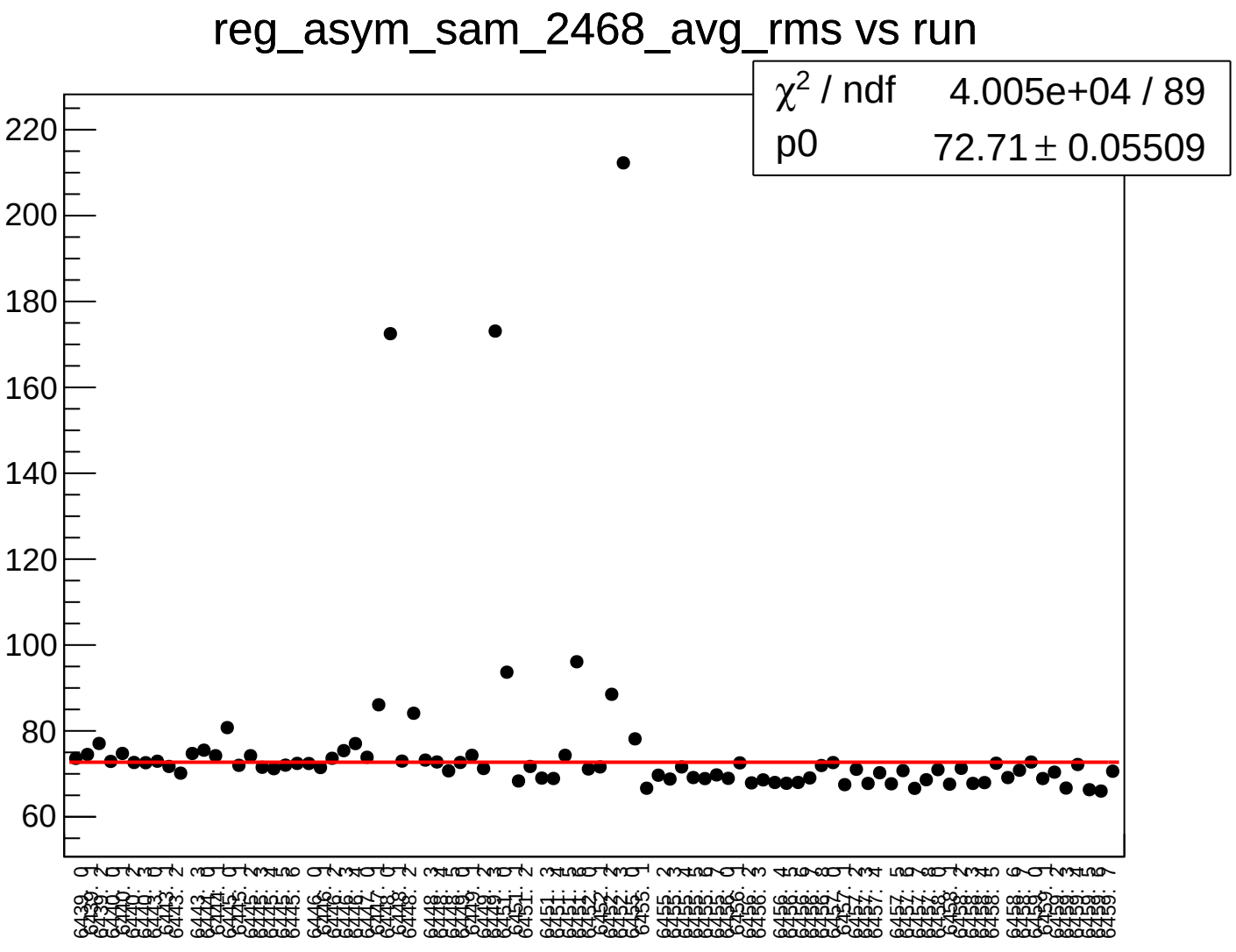

asym_sam_1357_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 73.16 / 89
p0 −1.172e−14 ± 8.724e−15
pull
Entries 90
Mean −4.177
Std Dev 0

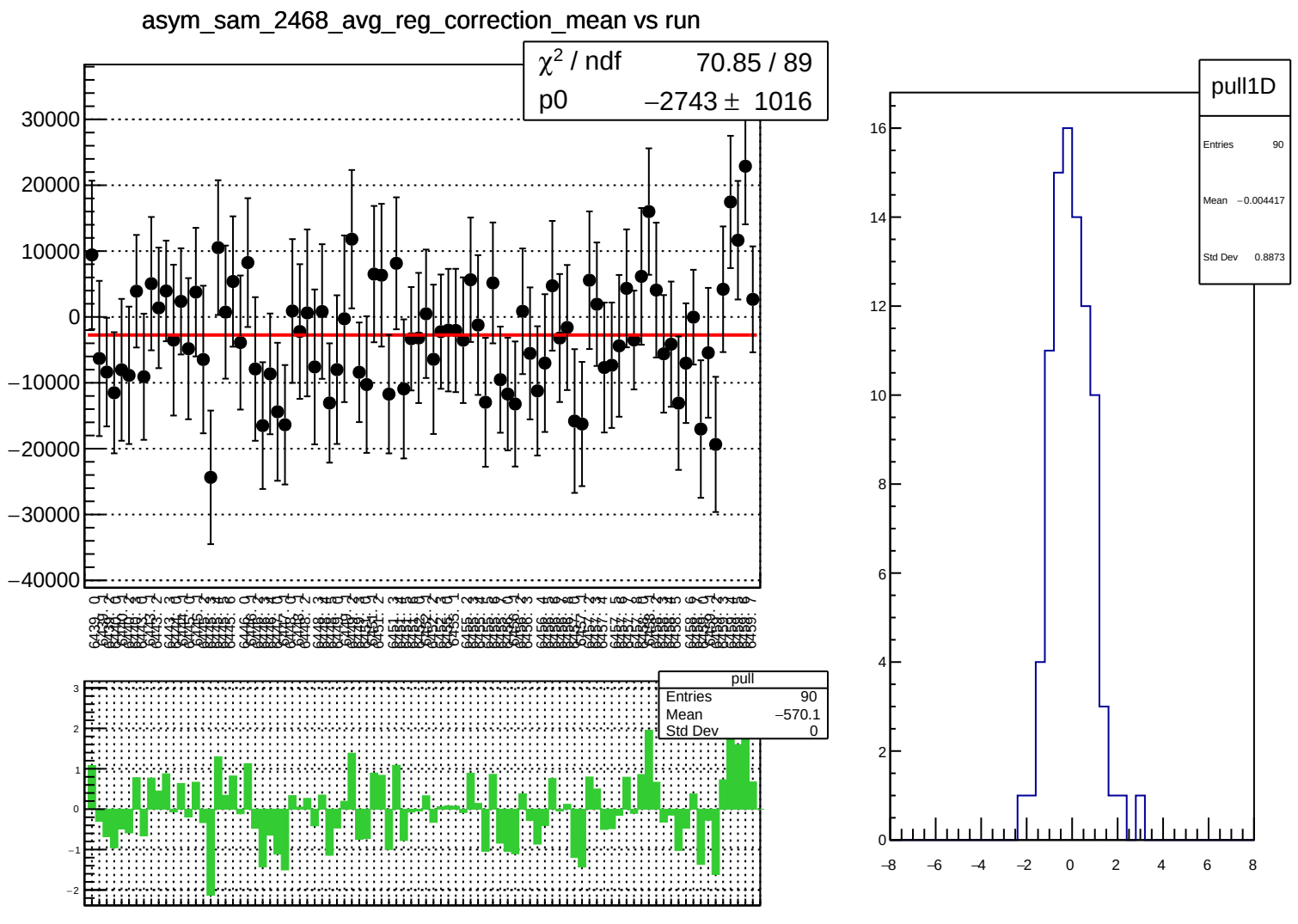

pull1D
Entries 90
Mean 0.01487
Std Dev 0.9015

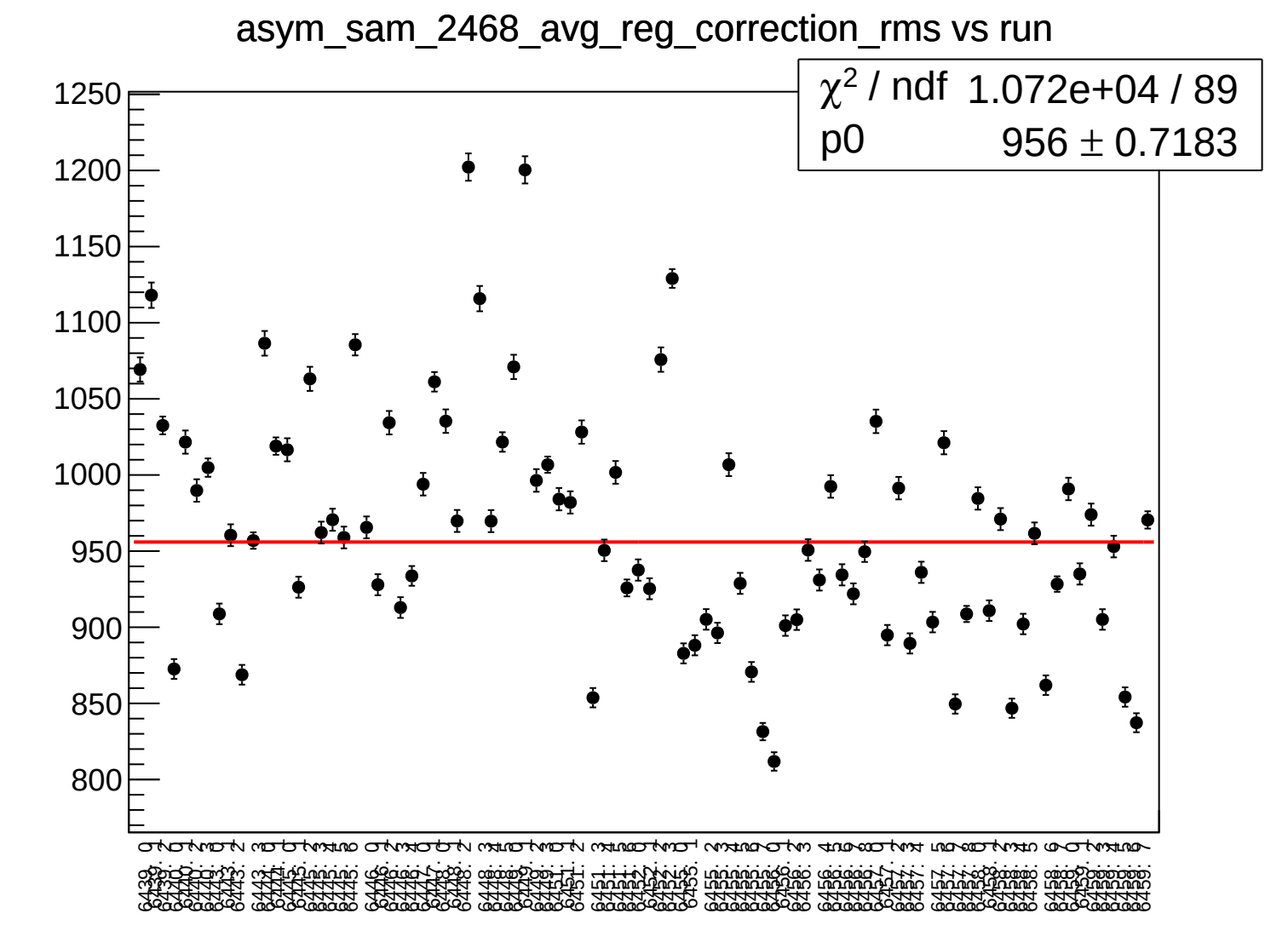

asym_sam_1357_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.33e+05 / 89
p0 6.894e−12 ± 6.169e−15
50
40
30
20
10

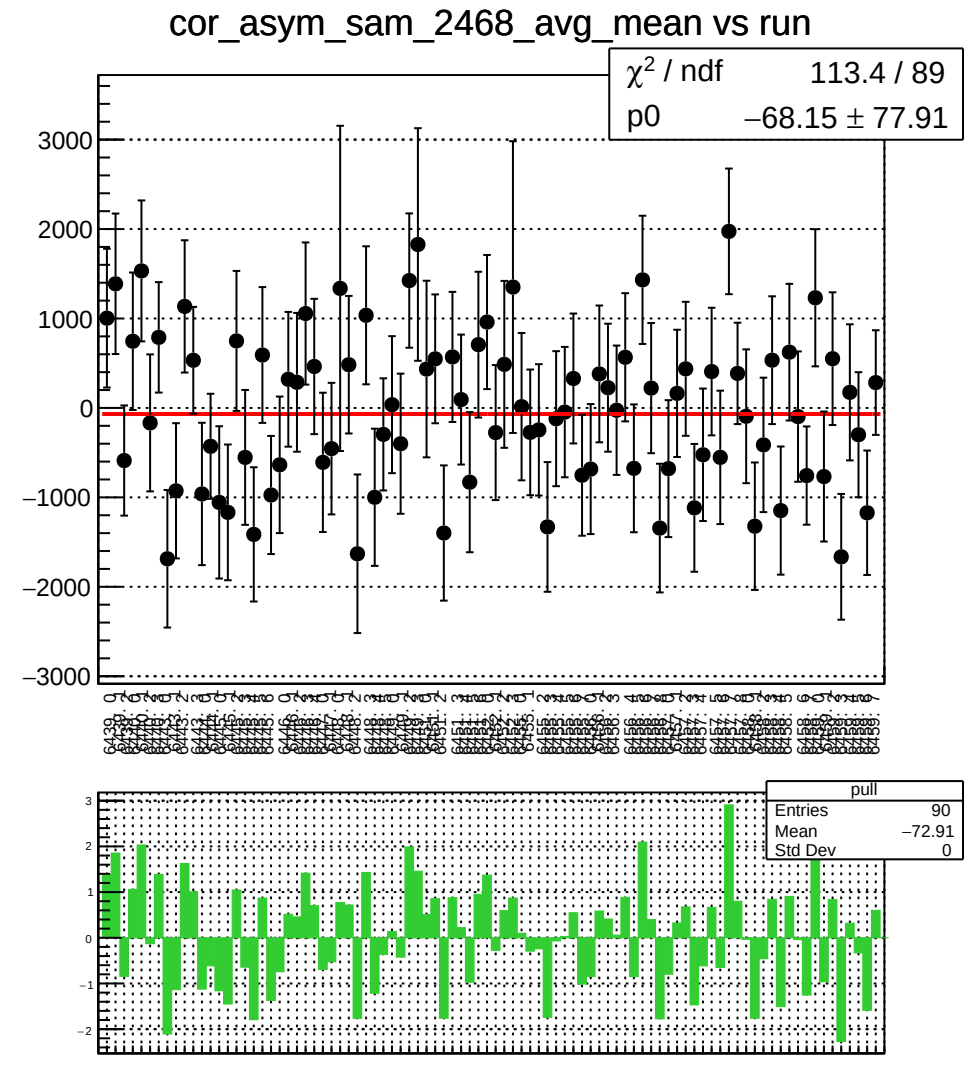

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 113.4 / 89
p0 −68.15 ± 77.91
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 90
Mean −72.91
Std Dev 0
3
2
1
0
−1
−2

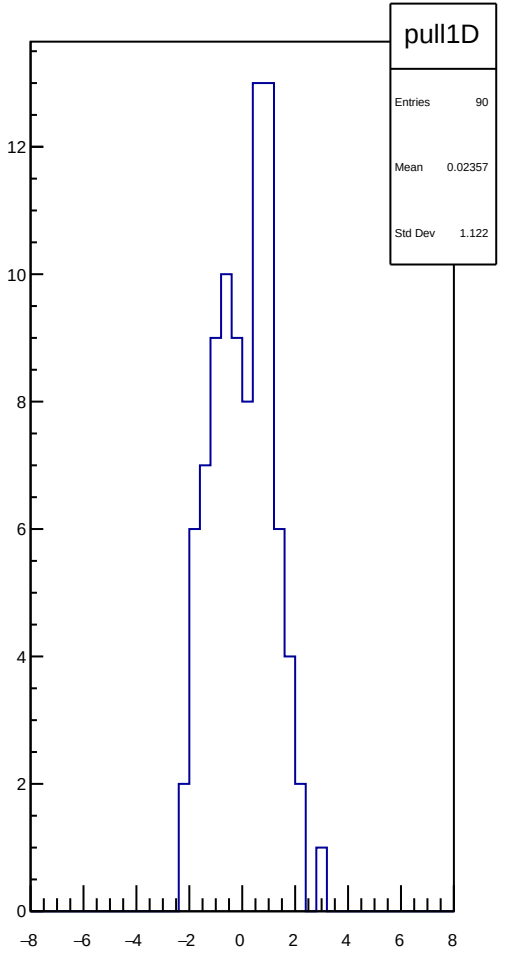

pull1D
Entries 90
Mean 0.02357
Std Dev 1.122
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

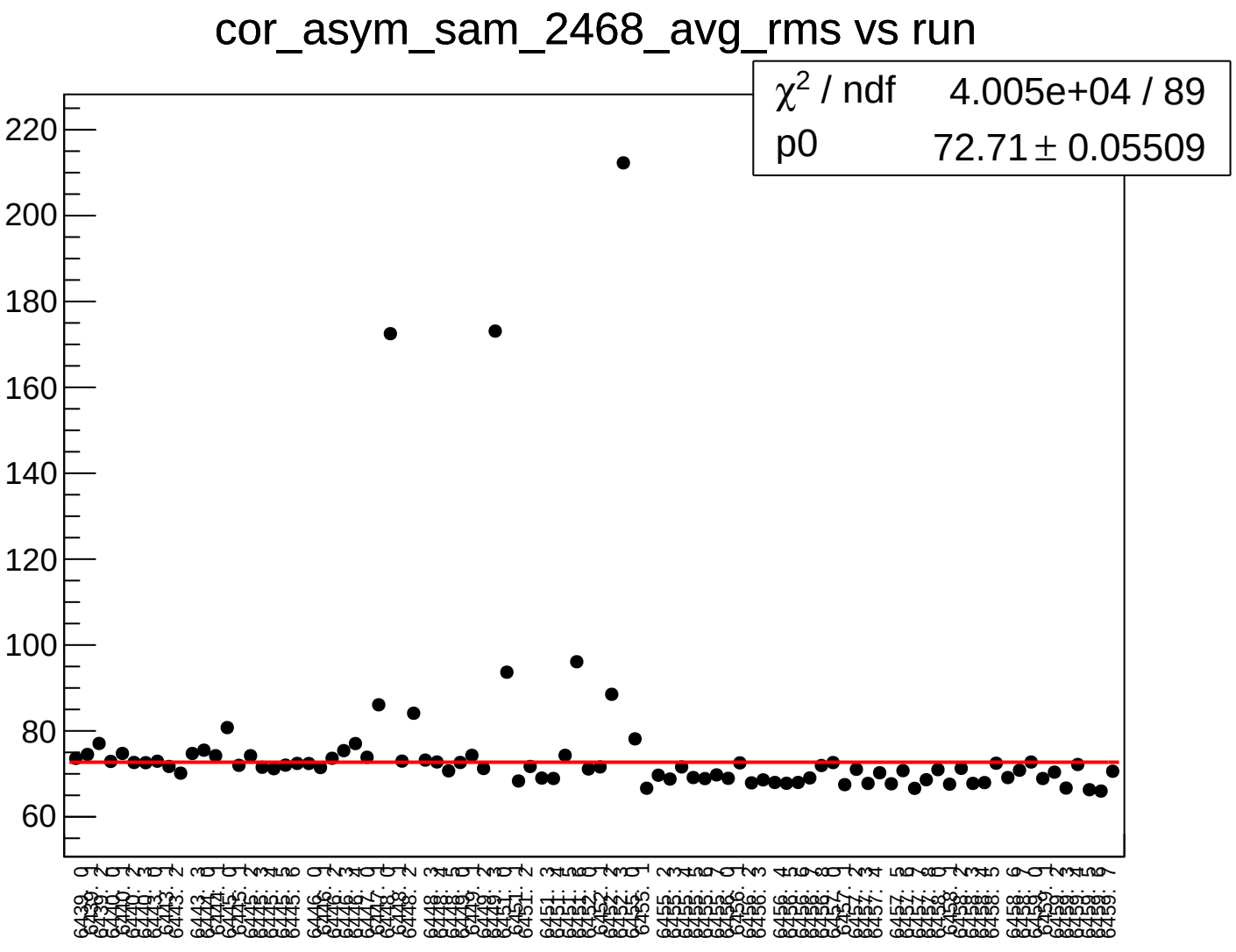

reg_asym_sam_2468_avg_rms vs run
χ^2 / ndf 4.005e+04 / 89
p0 72.71 ± 0.05509
220
200
180
160
140
120
100
80
60

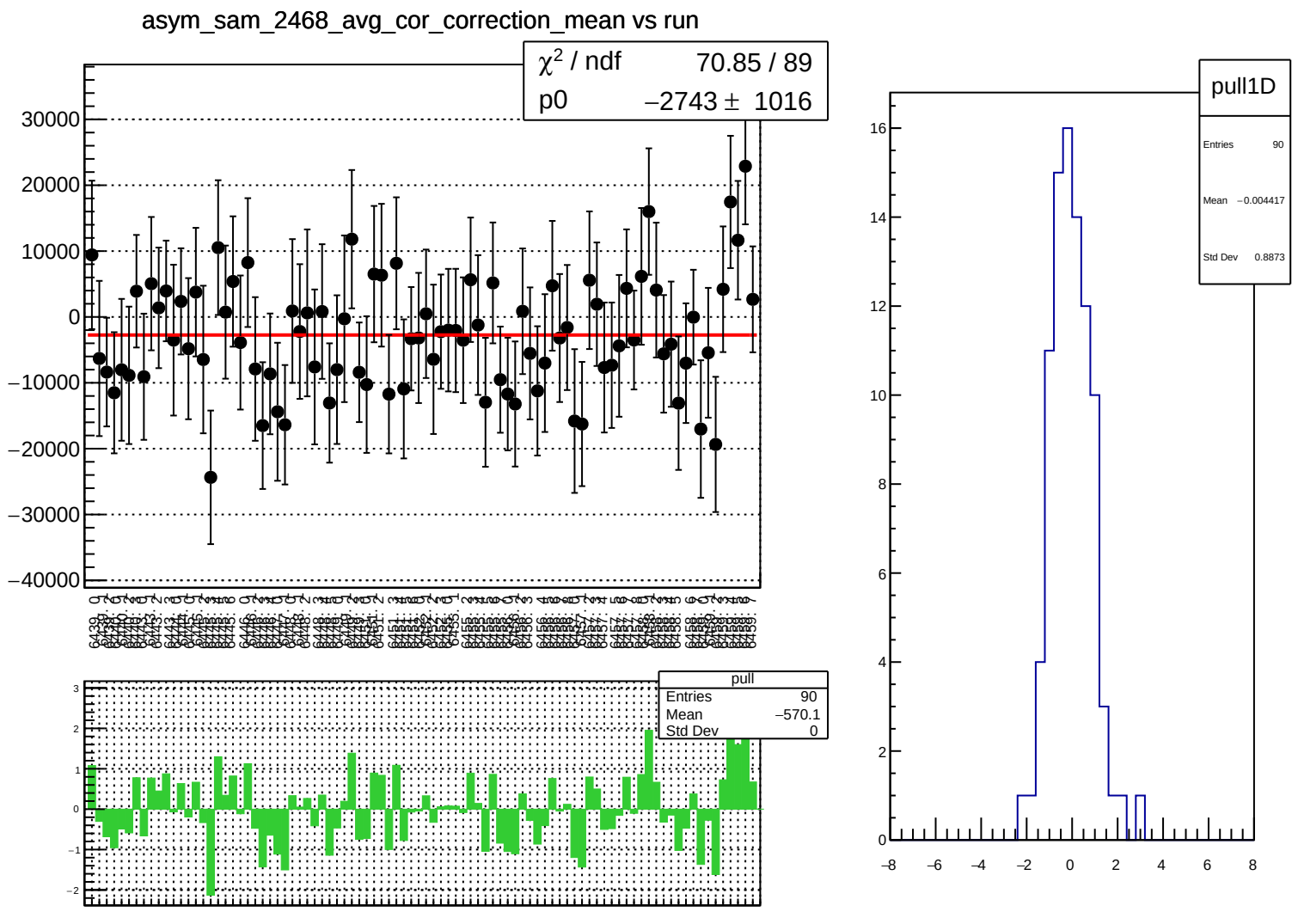

asym_sam_2468_avg_reg_correction_mean vs run
χ² / ndf 70.85 / 89
p0 −2743 ± 1016
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 90
Mean −570.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.004417
Std Dev 0.8873
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

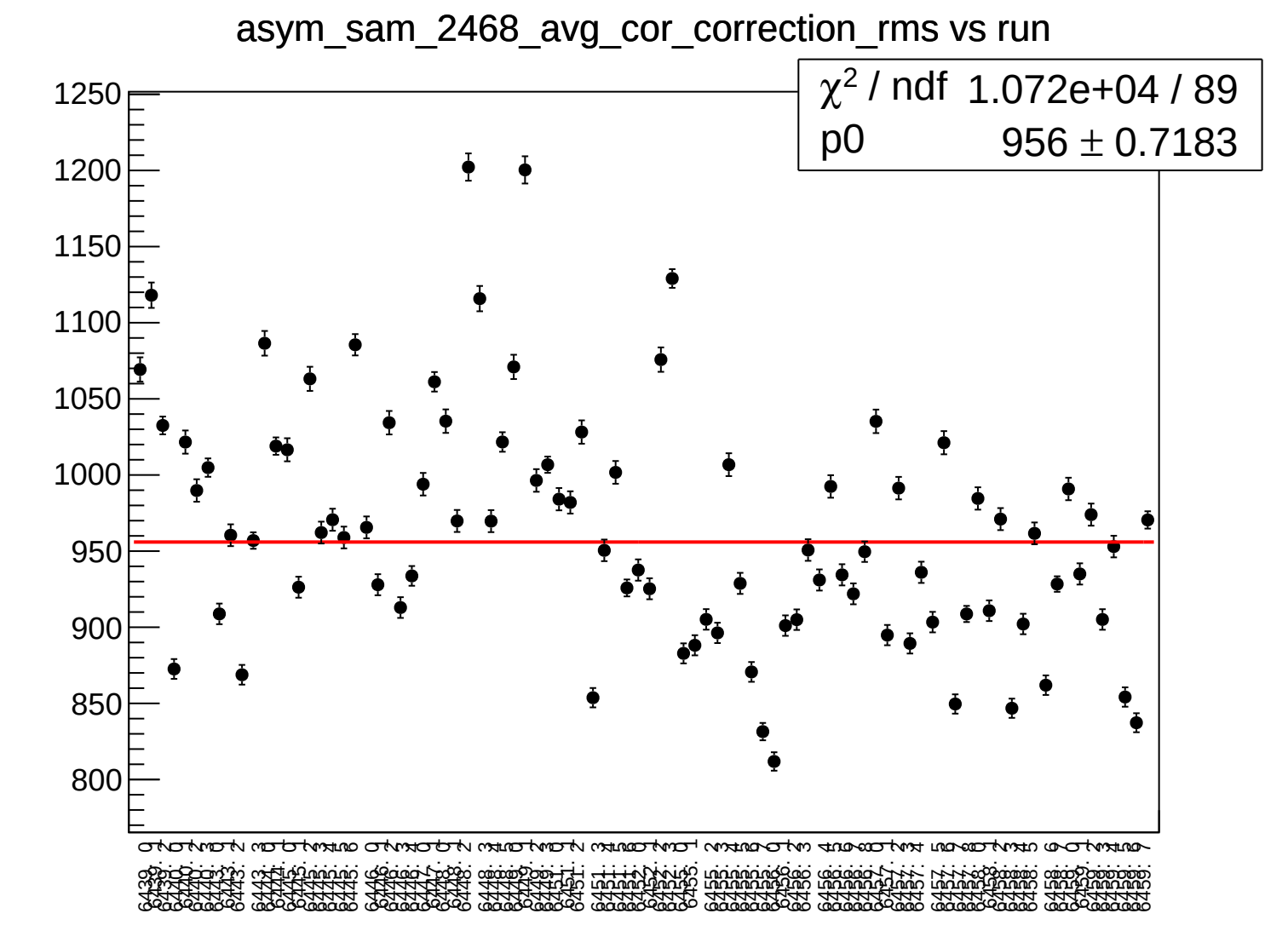

asym_sam_2468_avg_reg_correction_rms vs run
χ² / ndf 1.072e+04 / 89
p0 956 ± 0.7183
1250
1200
1150
1100
1050
1000
950
900
850
800

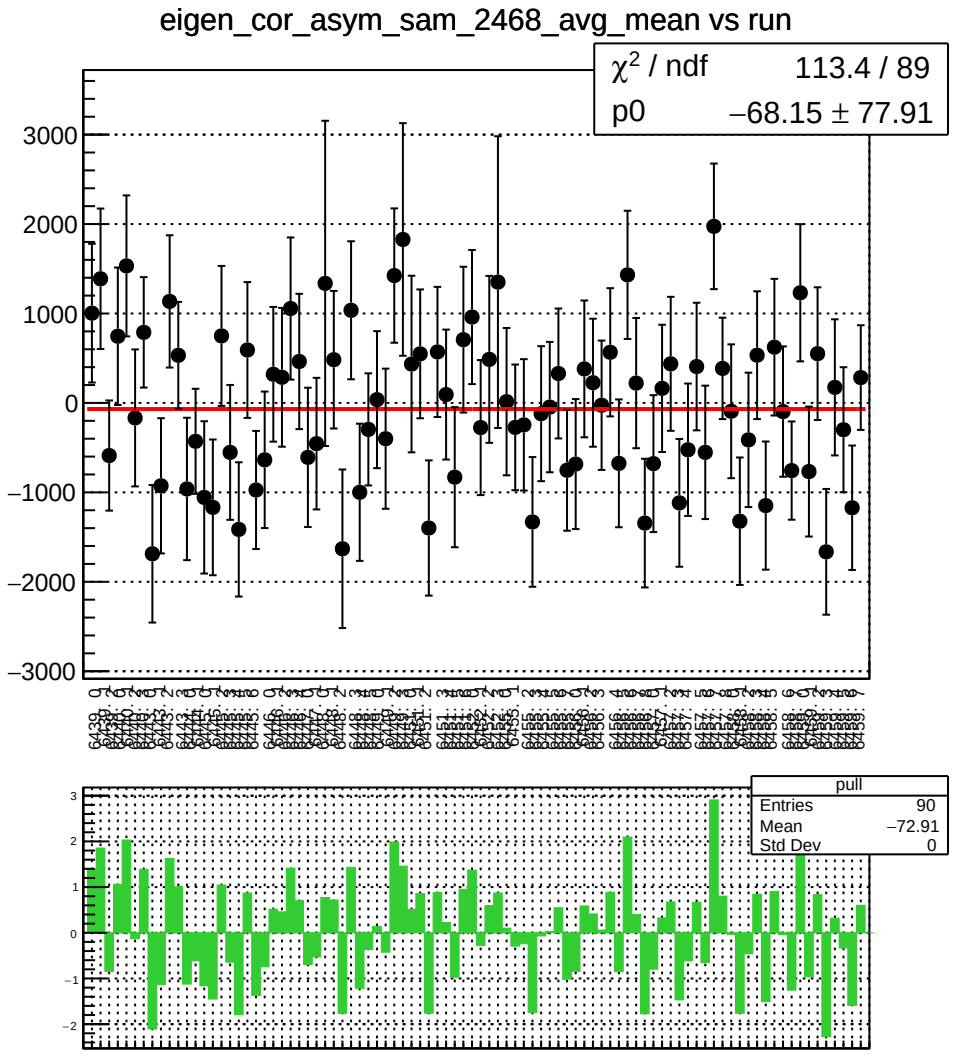

cor_asym_sam_2468_avg_mean vs run
χ² / ndf 113.4 / 89
p0 −68.15 ± 77.91
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 90
Mean −72.91
Std Dev 0
3
2
1
0
−1
−2

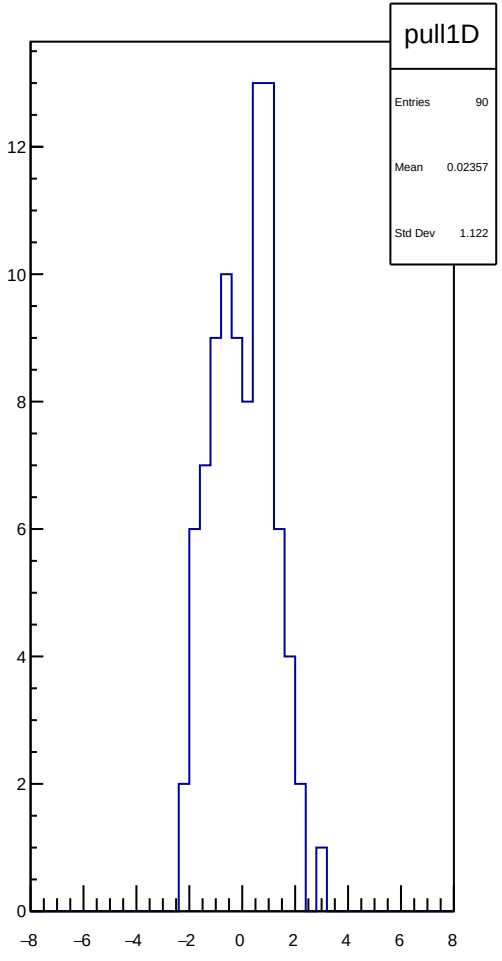

pull1D
Entries 90
Mean 0.02357
Std Dev 1.122
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

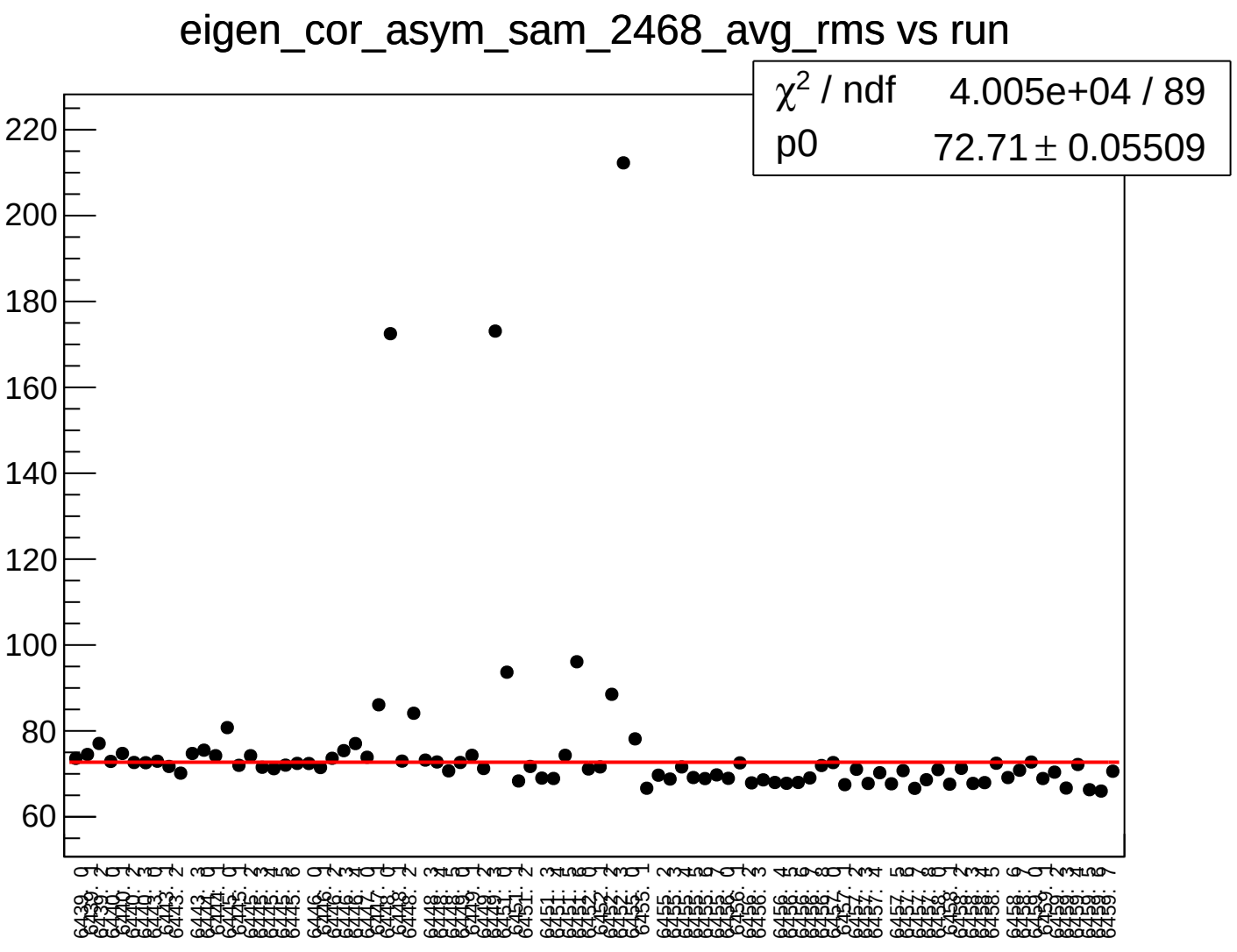

cor_asym_sam_2468_avg_rms vs run
χ^2 / ndf 4.005e+04 / 89
p0 72.71 ± 0.05509
220
200
180
160
140
120
100
80
60

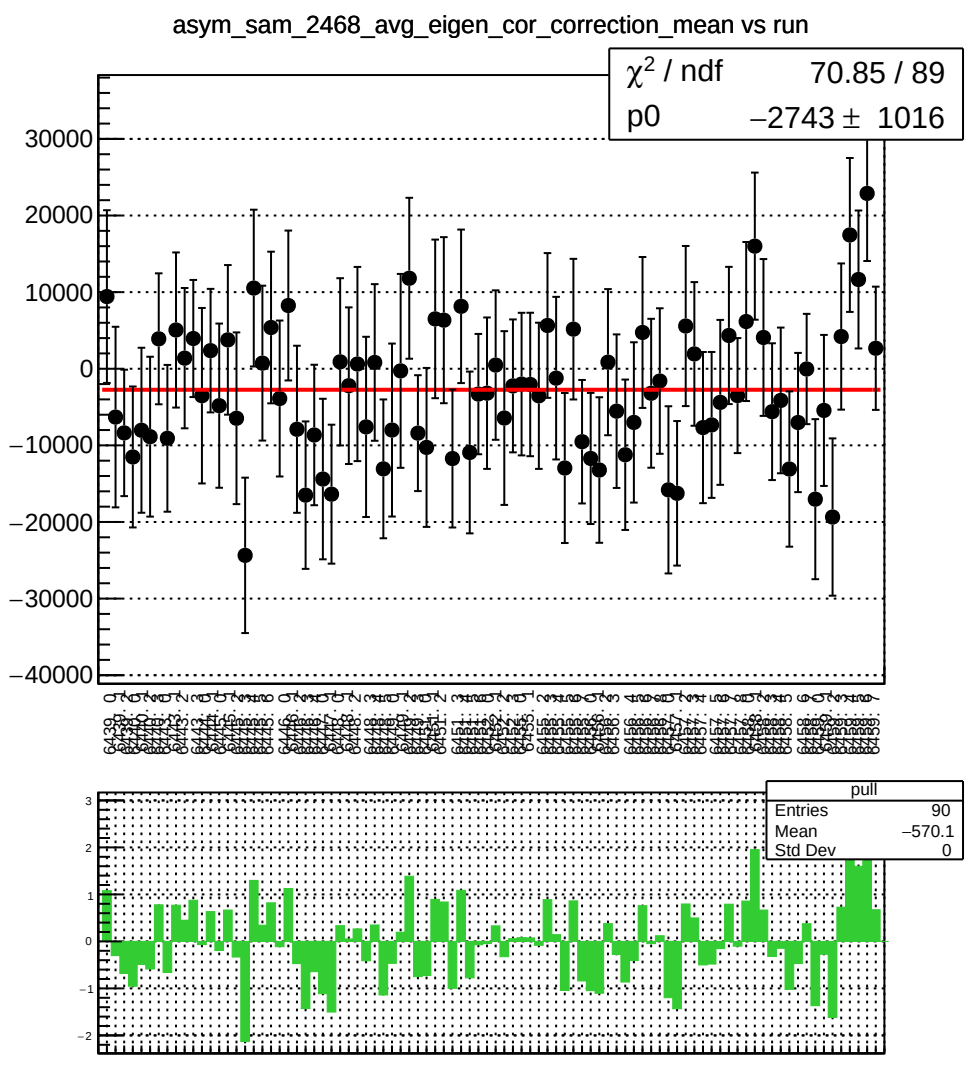

asym_sam_2468_avg_cor_correction_mean vs run
χ² / ndf 70.85 / 89
p0 −2743 ± 1016
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 90
Mean −570.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.004417
Std Dev 0.8873
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

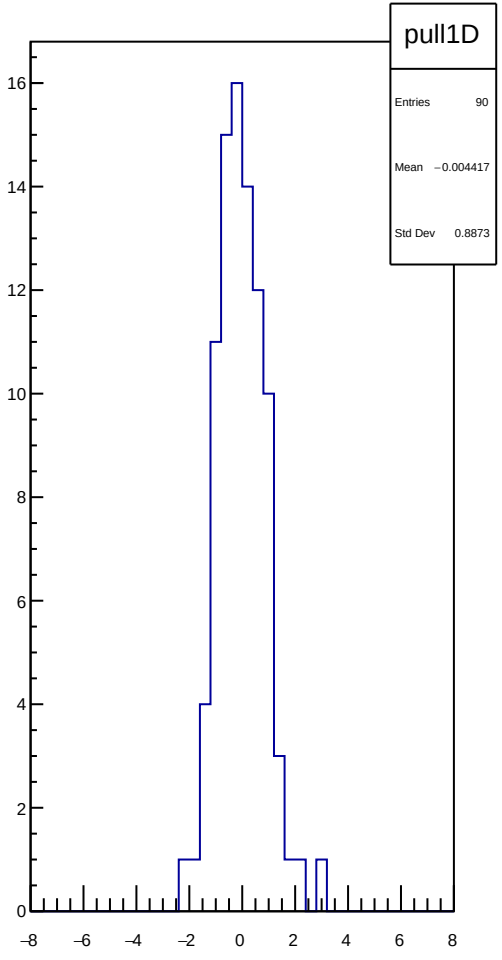

asym_sam_2468_avg_cor_correction_rms vs run
χ² / ndf 1.072e+04 / 89
p0 956 ± 0.7183
1250
1200
1150
1100
1050
1000
950
900
850
800

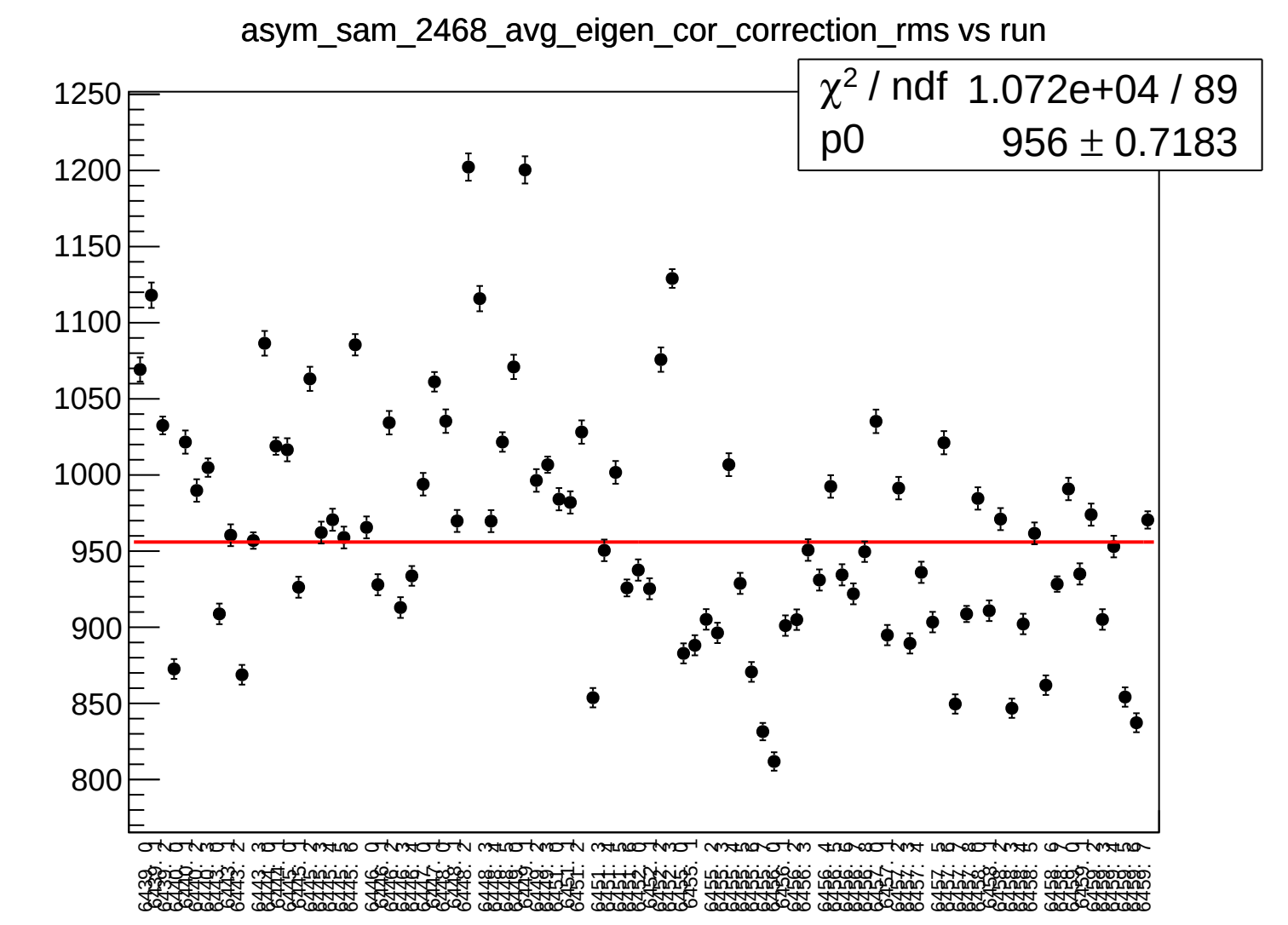

eigen_cor_asym_sam_2468_avg_mean vs run
χ² / ndf 113.4 / 89
p0 −68.15 ± 77.91
pull
Entries 90
Mean −72.91
Std Dev 0

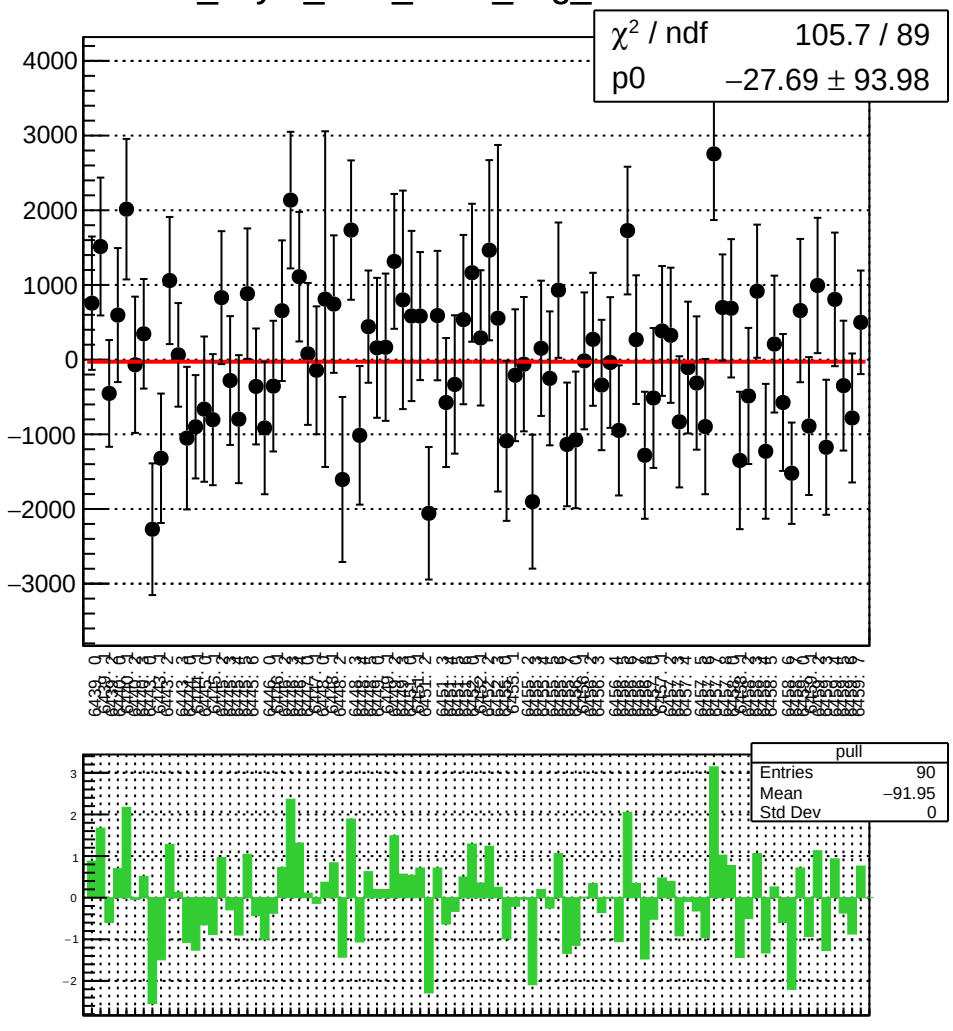

pull1D
Entries 90
Mean 0.02357
Std Dev 1.122

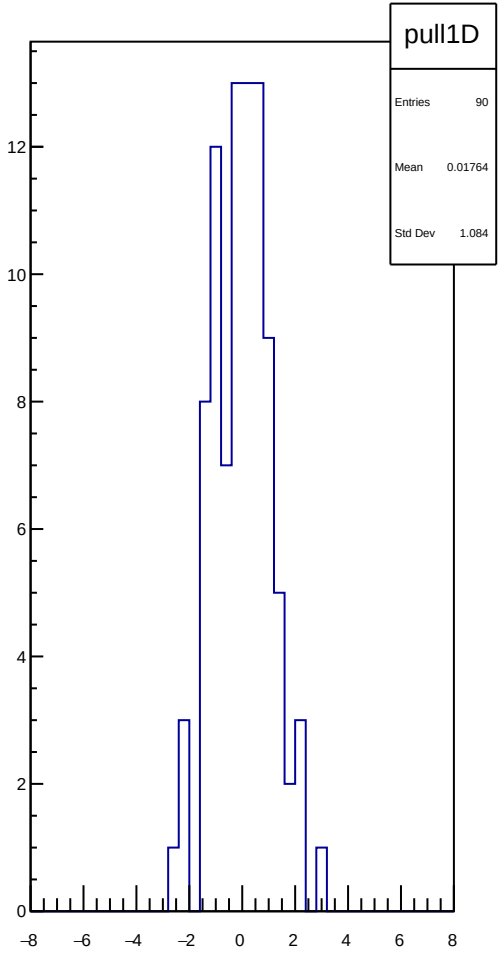

eigen_cor_asym_sam_2468_avg_rms vs run
χ^2 / ndf 4.005e+04 / 89
p0 72.71 ± 0.05509
220
200
180
160
140
120
100
80
60

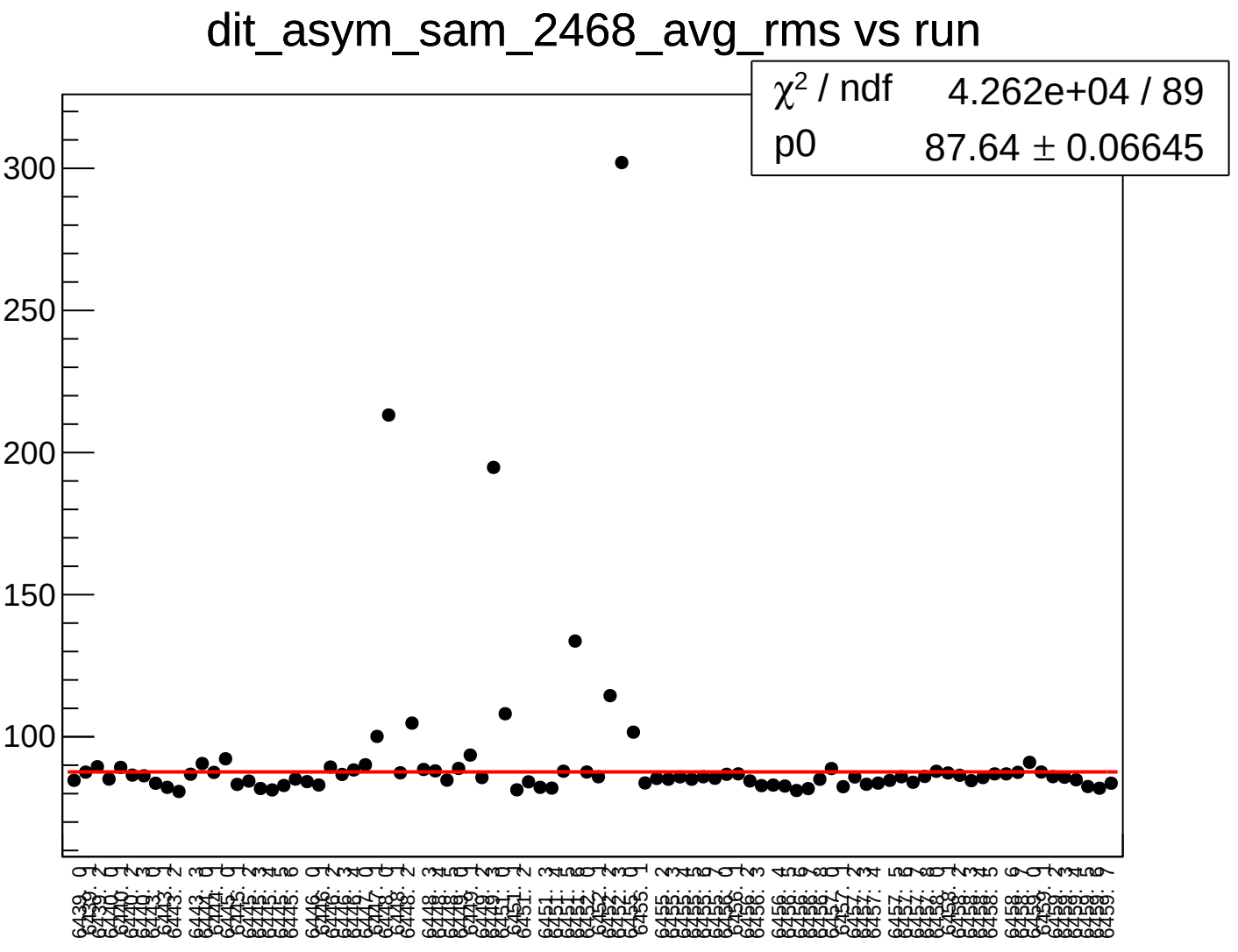

asym_sam_2468_avg_eigen_cor_correction_mean vs run
χ² / ndf 70.85 / 89
p0 −2743 ± 1016
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 90
Mean −570.1
Std Dev 0
3
2
1
0
−1
−2

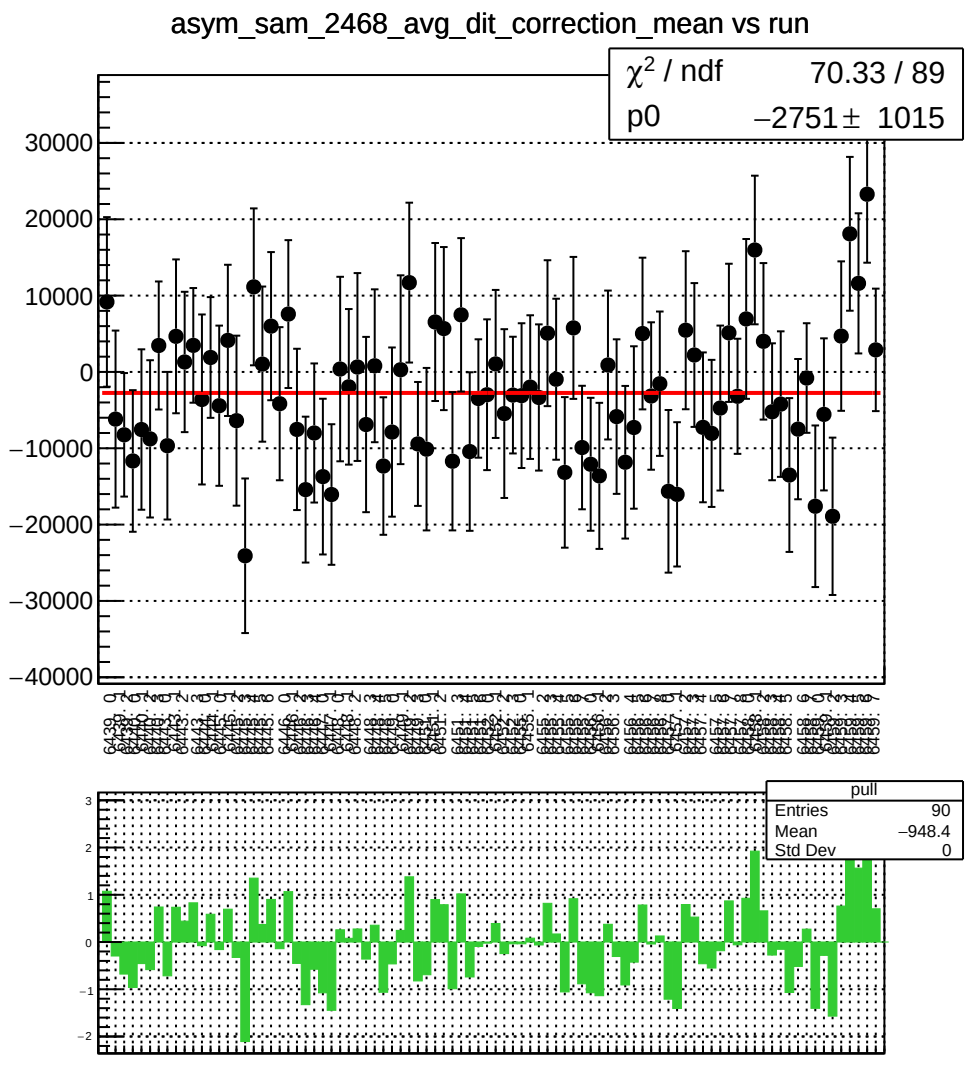

pull1D
Entries 90
Mean −0.004417
Std Dev 0.8873
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

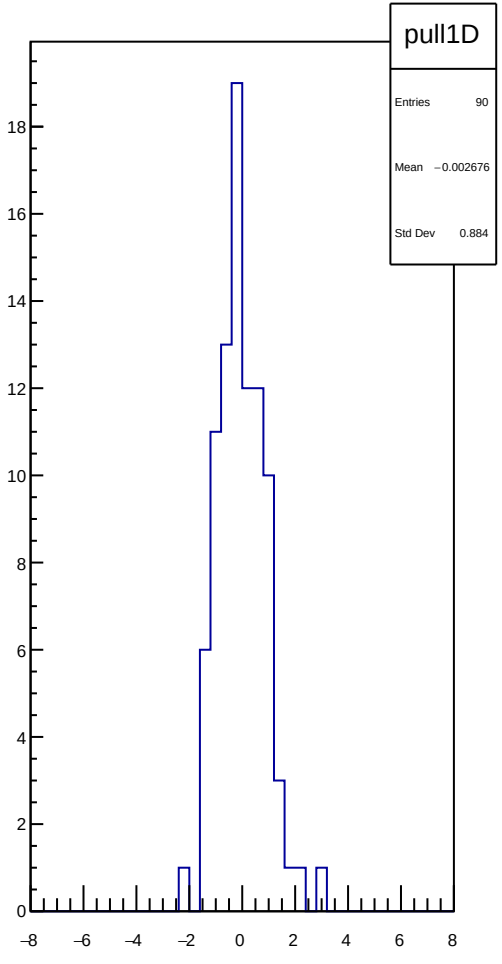

asym_sam_2468_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.072e+04 / 89
p0 956 ± 0.7183
1250
1200
1150
1100
1050
1000
950
900
850
800

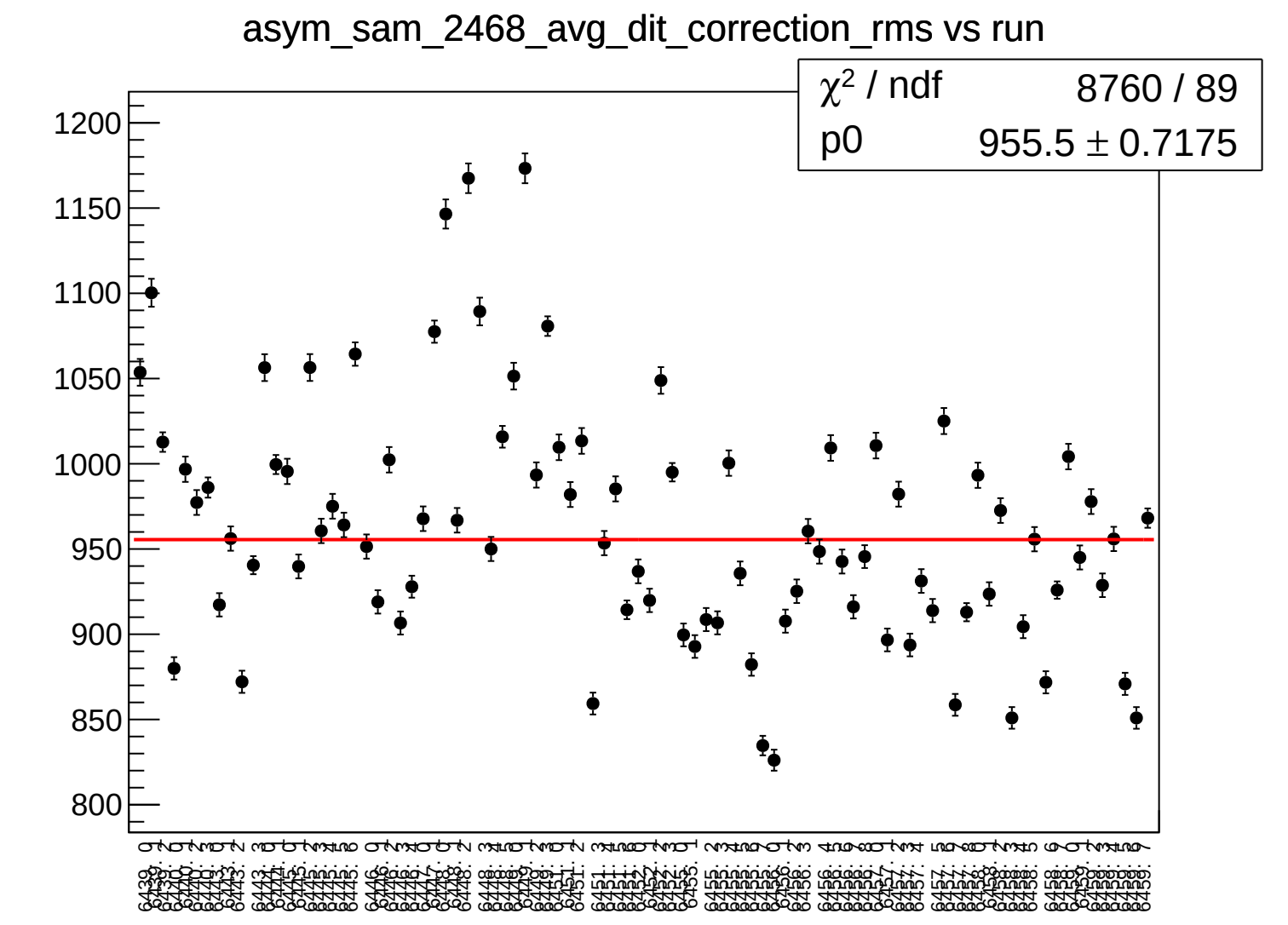

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 105.7 / 89
p0 −27.69 ± 93.98
pull
Entries 90
Mean −91.95
Std Dev 0

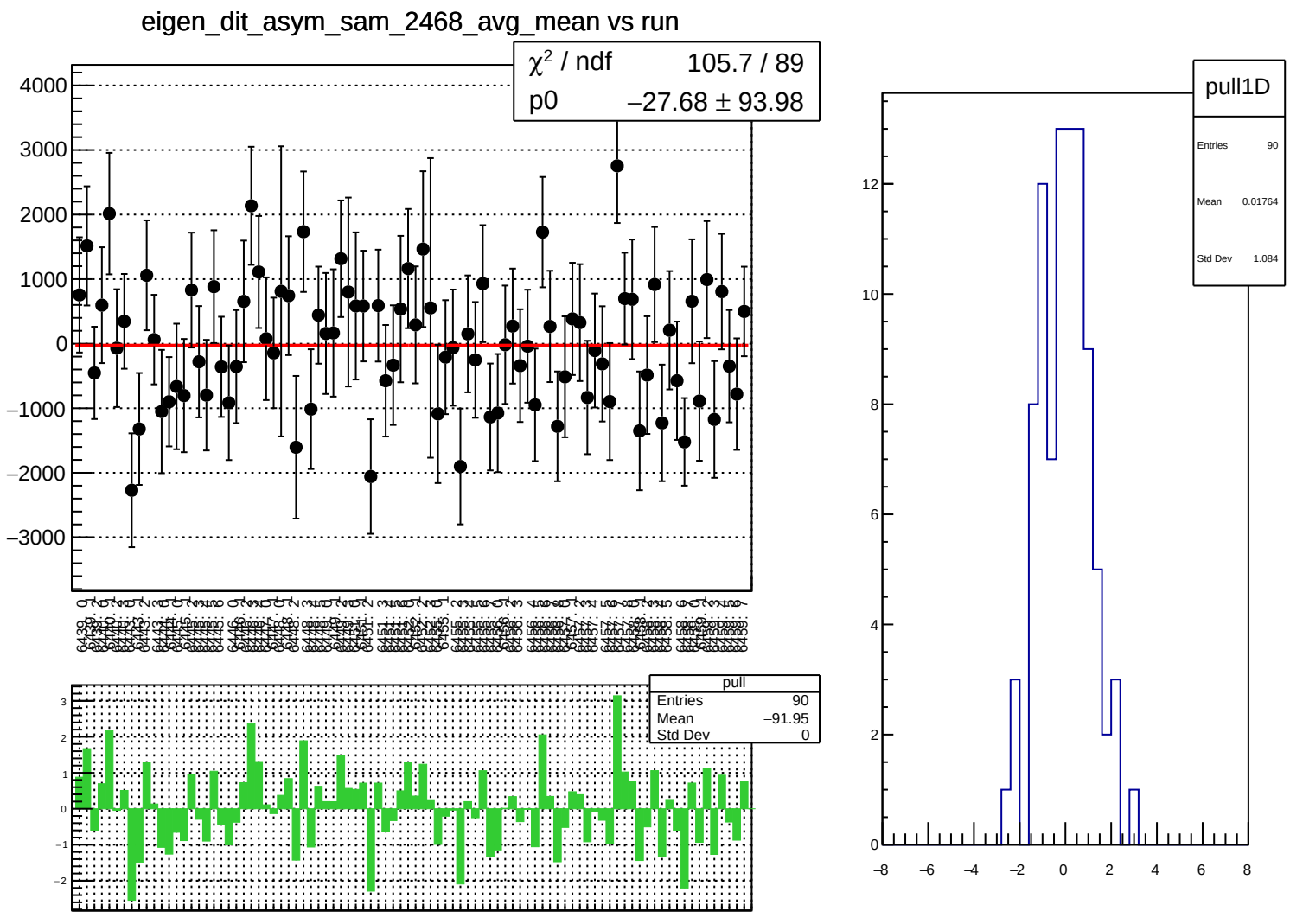

pull1D
Entries 90
Mean 0.01764
Std Dev 1.084

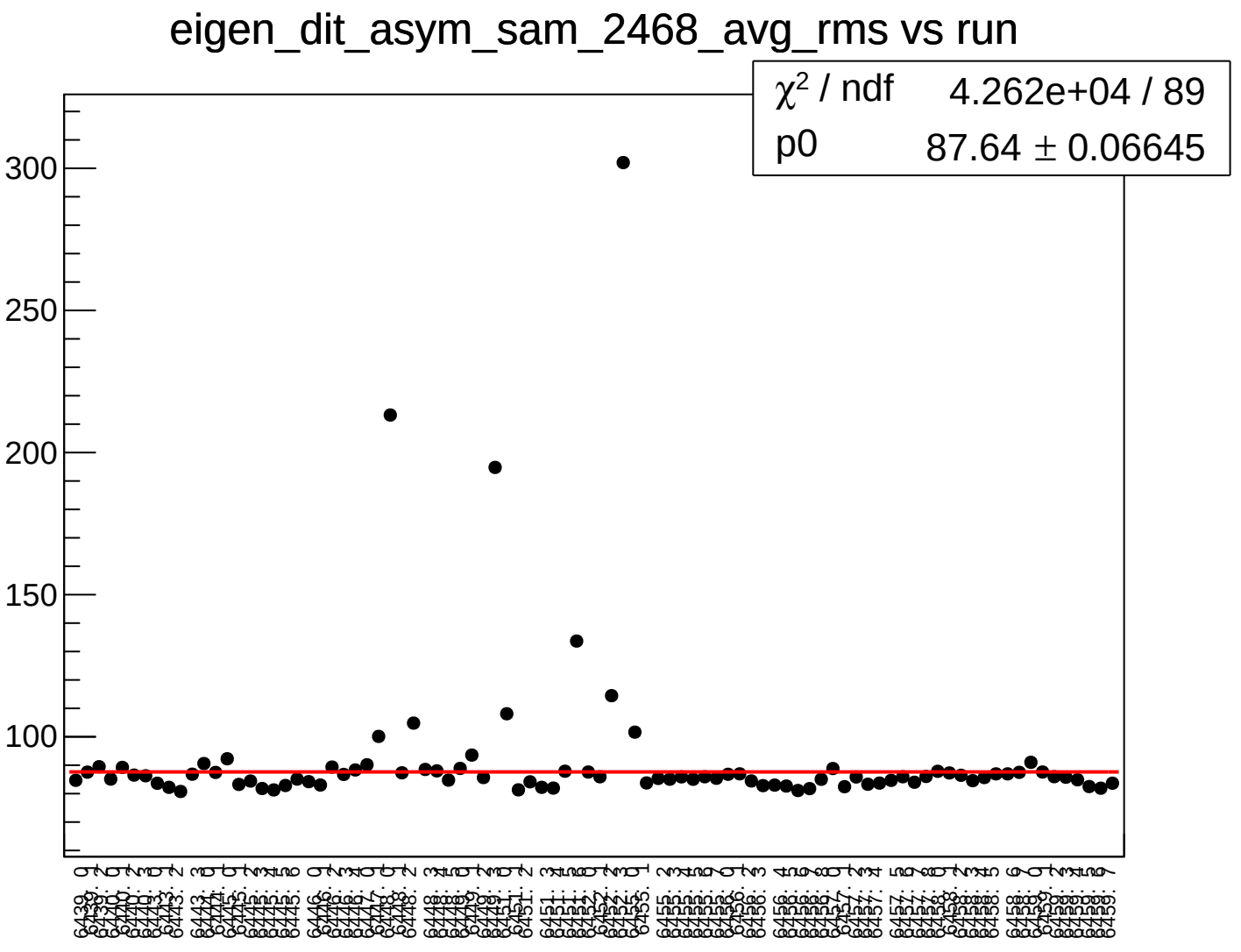

dit_asym_sam_2468_avg_rms vs run
χ² / ndf 4.262e+04 / 89
p0 87.64 ± 0.06645
300
250
200
150
100

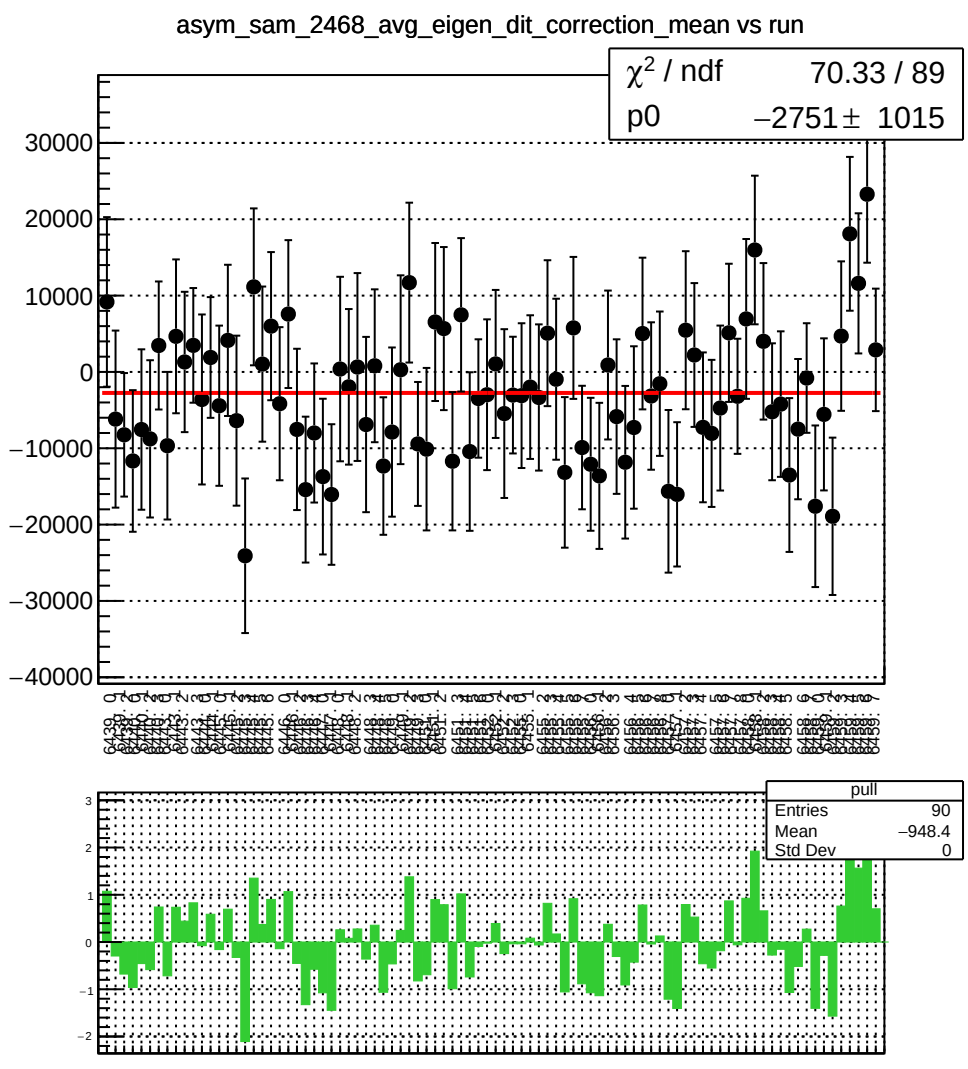

asym_sam_2468_avg_dit_correction_mean vs run
χ² / ndf 70.33 / 89
p0 −2751 ± 1015
pull
Entries 90
Mean −948.4
Std Dev 0

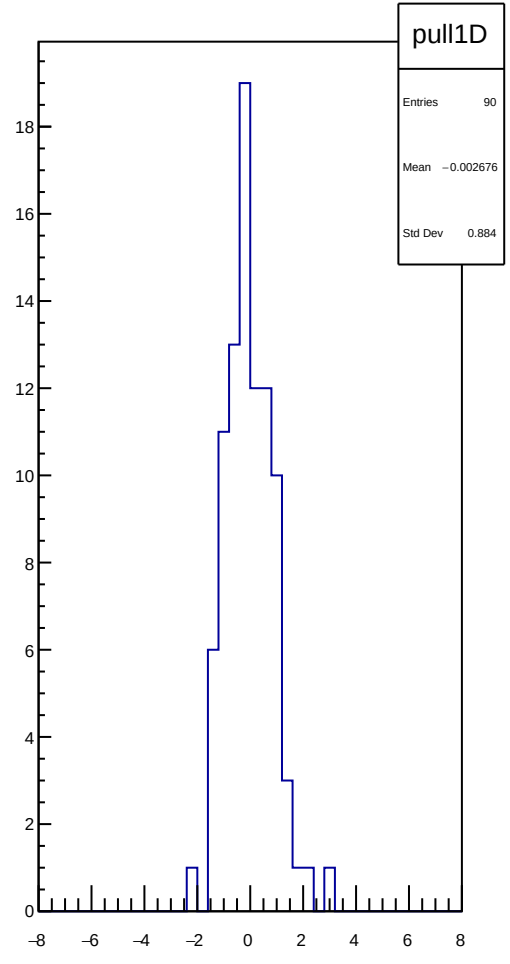

pull1D
Entries 90
Mean −0.002676
Std Dev 0.884

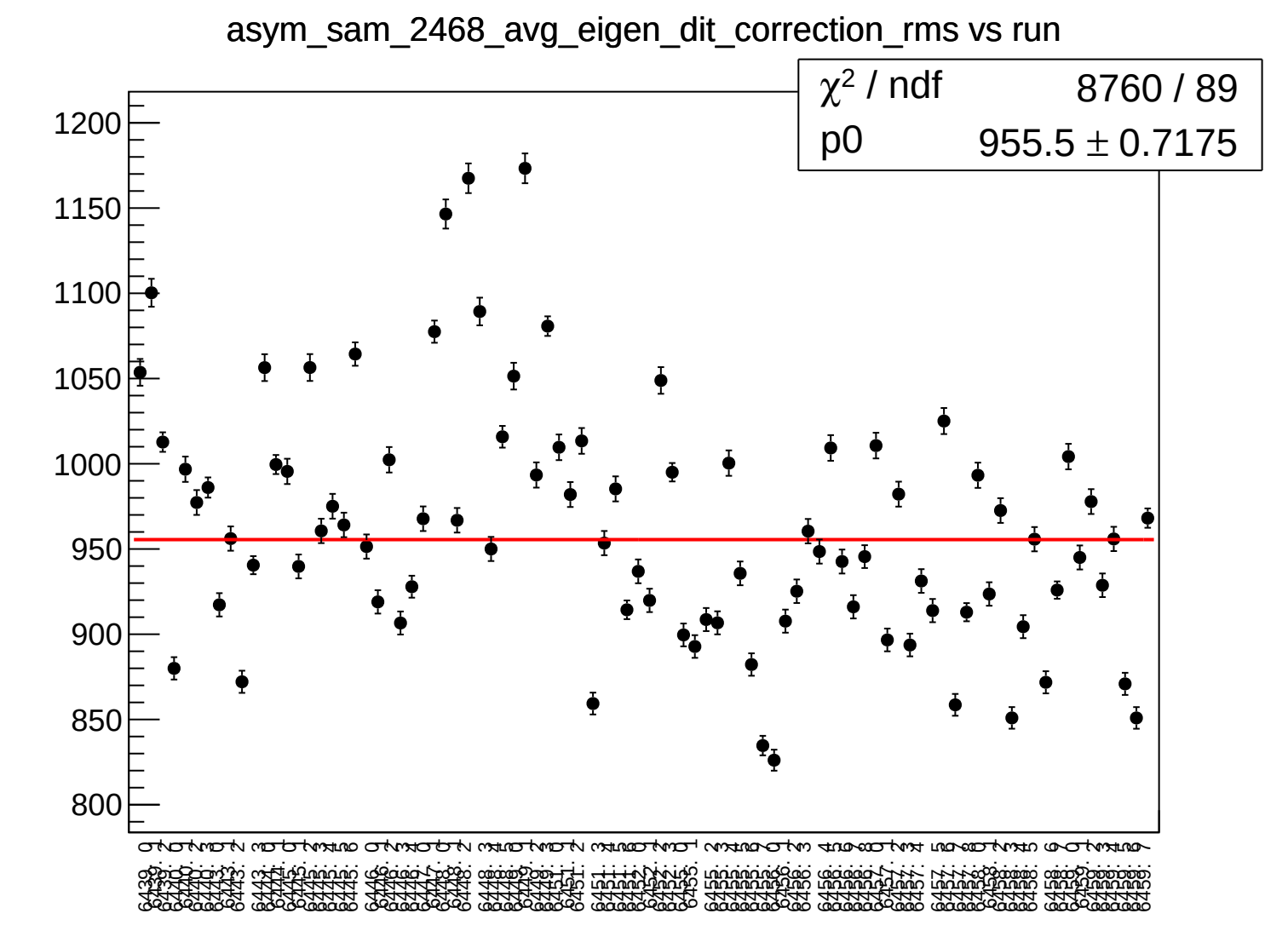

asym_sam_2468_avg_dit_correction_rms vs run
χ² / ndf 8760 / 89
p0 955.5 ± 0.7175
1200
1150
1100
1050
1000
950
900
850
800

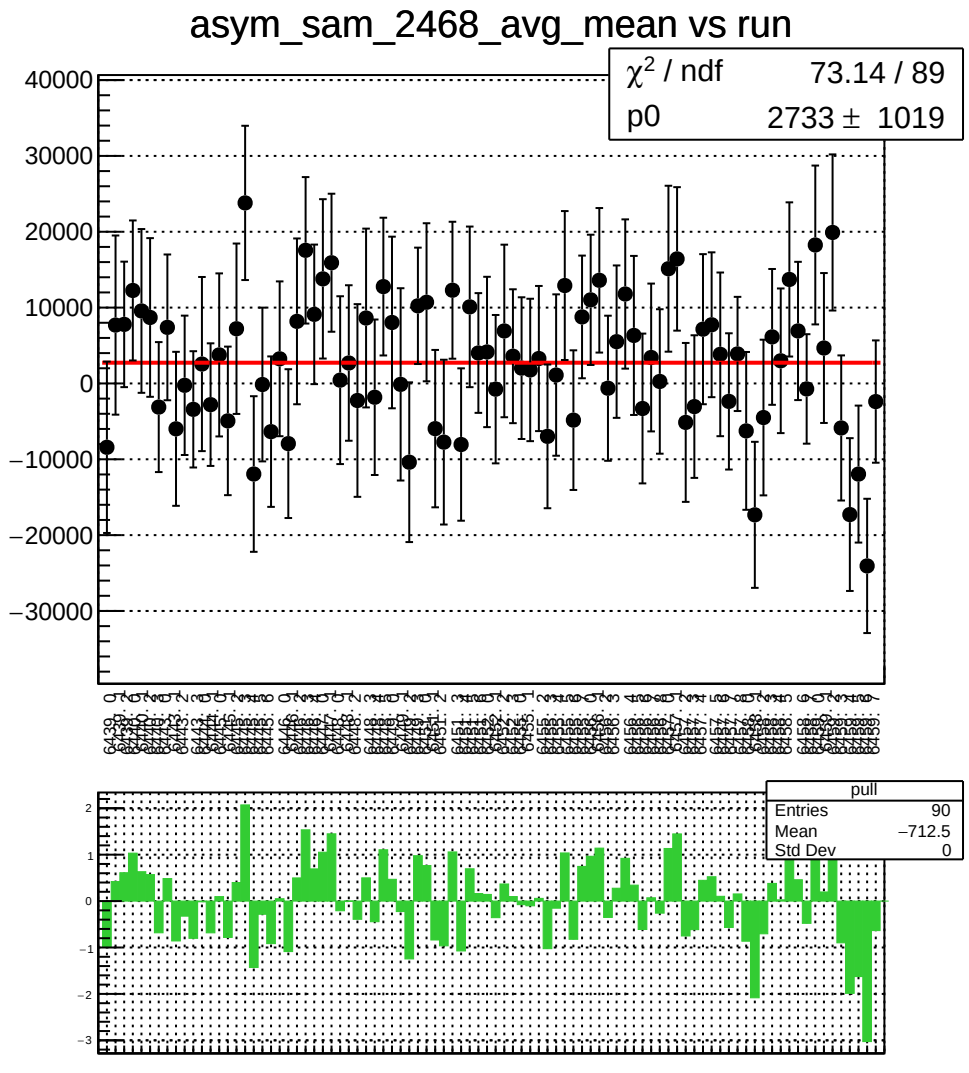

eigen_dit_asym_sam_2468_avg_mean vs run
χ² / ndf 105.7 / 89
p0 −27.68 ± 93.98
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 90
Mean −91.95
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 90
Mean 0.01764
Std Dev 1.084
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

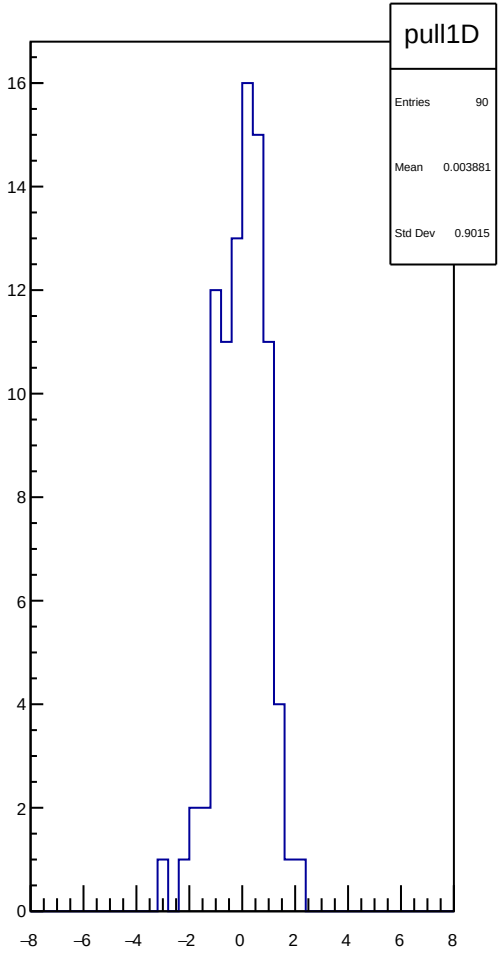

eigen_dit_asym_sam_2468_avg_rms vs run
χ² / ndf 4.262e+04 / 89
p0 87.64 ± 0.06645
300
250
200
150
100

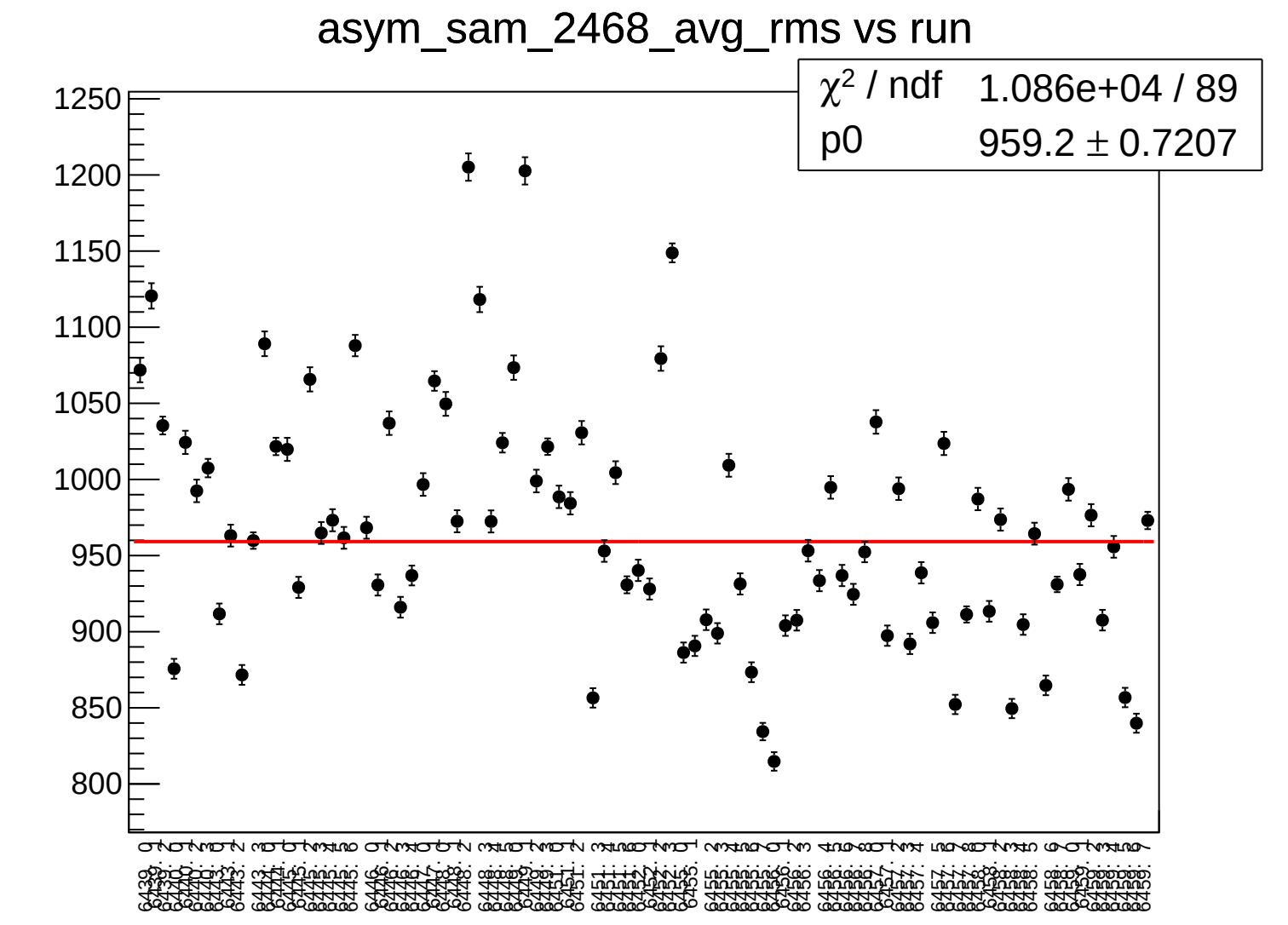

asym_sam_2468_avg_eigen_dit_correction_mean vs run
χ² / ndf 70.33 / 89
p0 −2751 ± 1015
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 90
Mean −948.4
Std Dev 0
3
2
1
0
−1
−2

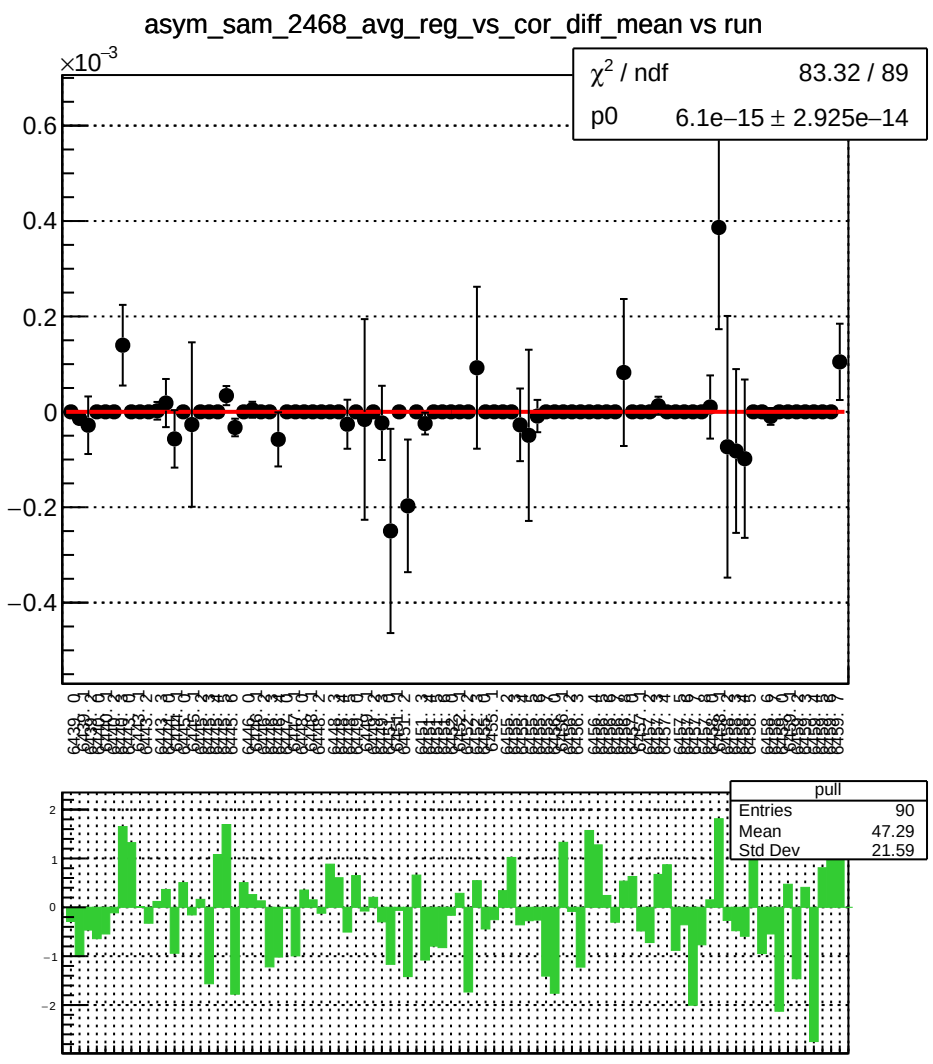

pull1D
Entries 90
Mean −0.002676
Std Dev 0.884
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

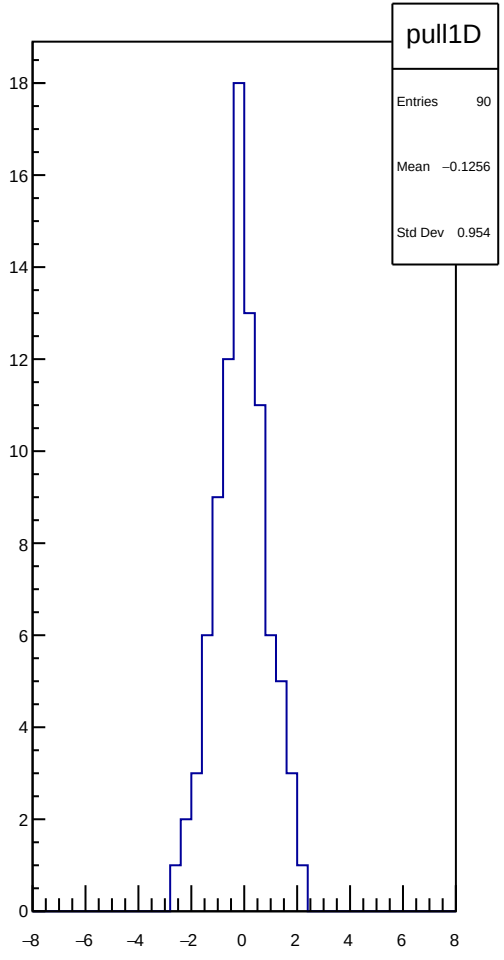

asym_sam_2468_avg_eigen_dit_correction_rms vs run
χ² / ndf 8760 / 89
p0 955.5 ± 0.7175
1200
1150
1100
1050
1000
950
900
850
800

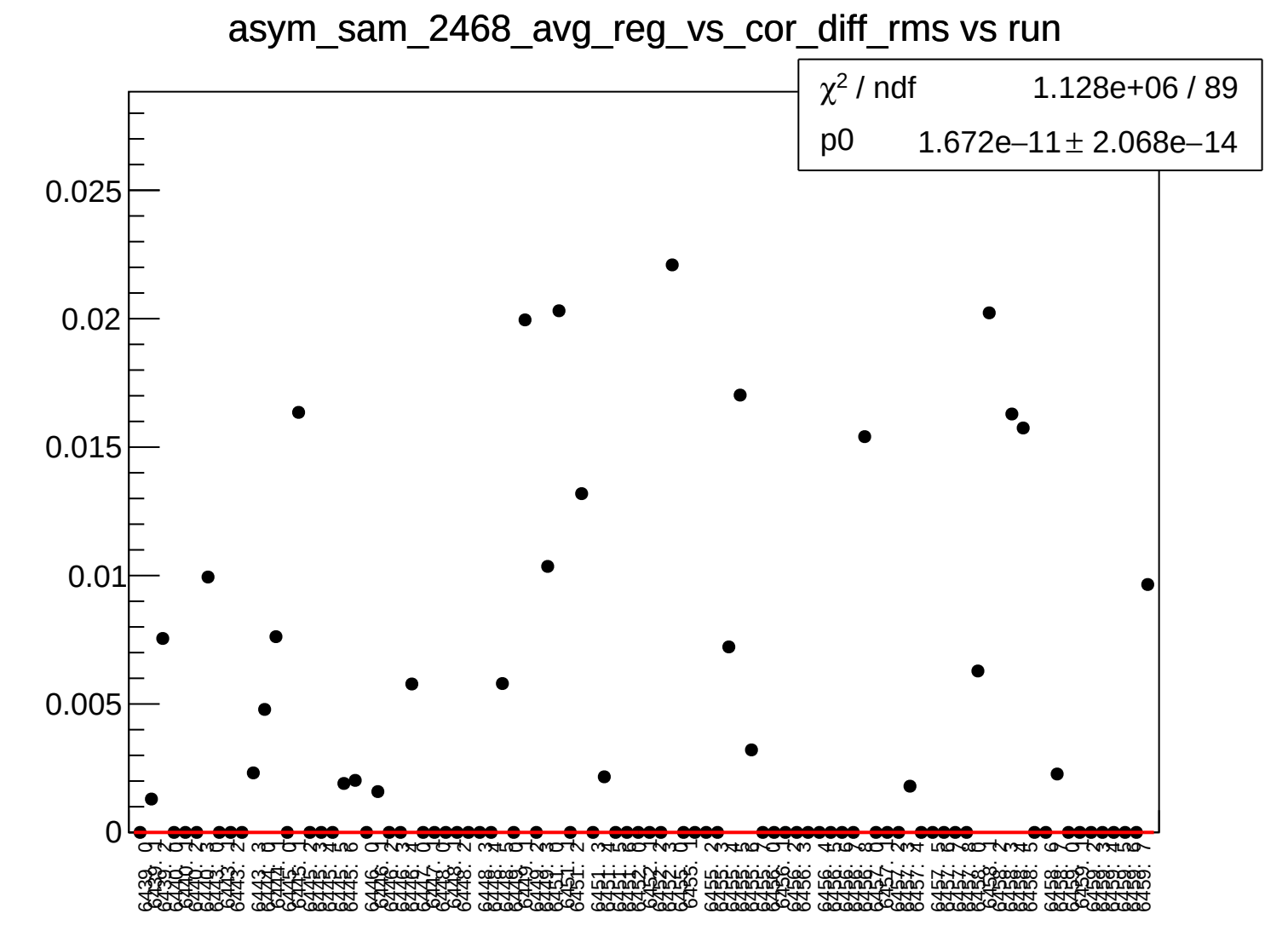

asym_sam_2468_avg_mean vs run
χ² / ndf 73.14 / 89
p0 2733 ± 1019
pull
Entries 90
Mean −712.5
Std Dev 0

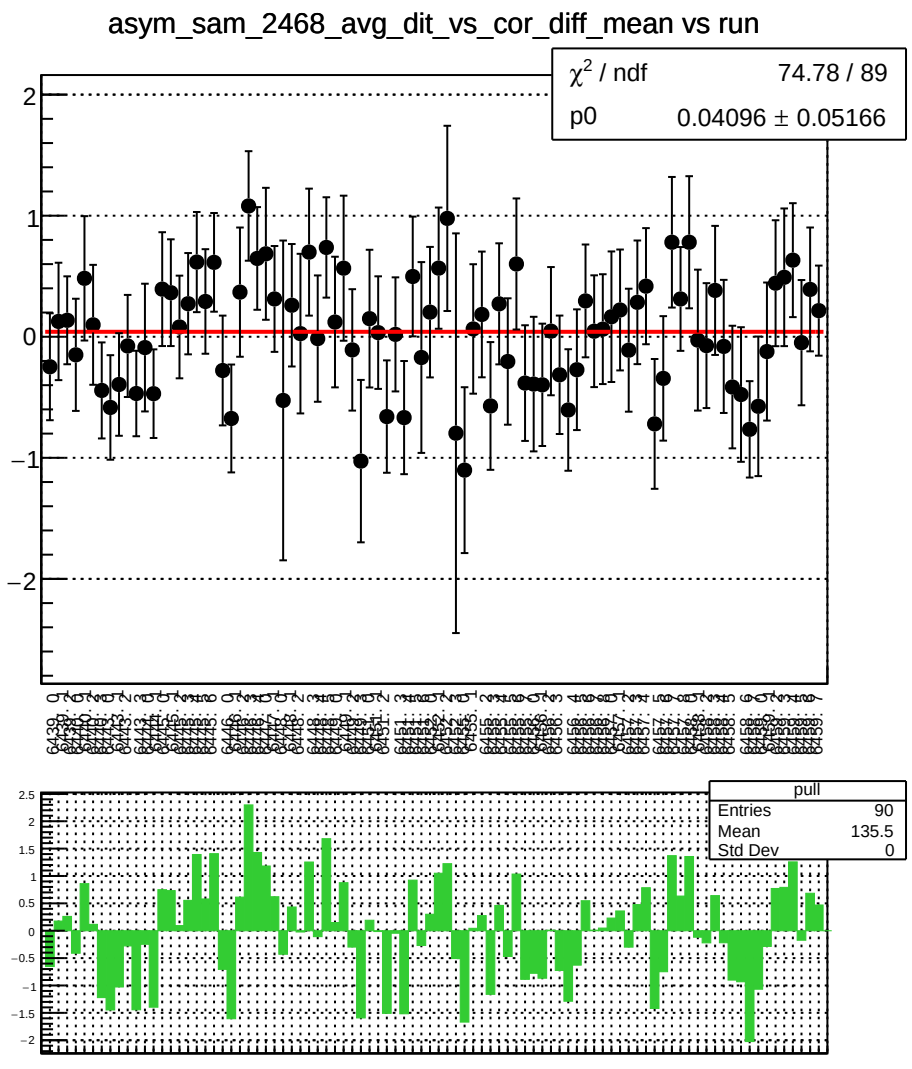

pull1D
Entries 90
Mean 0.003881
Std Dev 0.9015

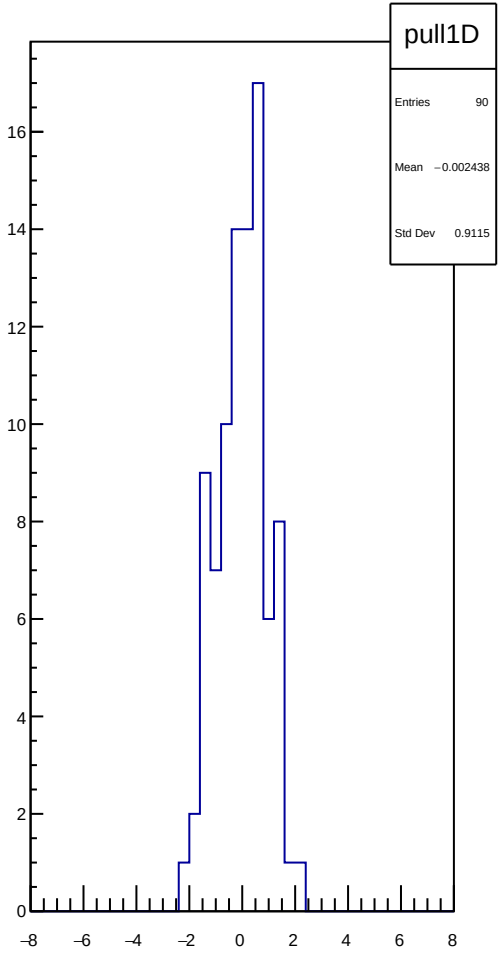

asym_sam_2468_avg_rms vs run
χ² / ndf 1.086e+04 / 89
p0 959.2 ± 0.7207
1250
1200
1150
1100
1050
1000
950
900
850
800

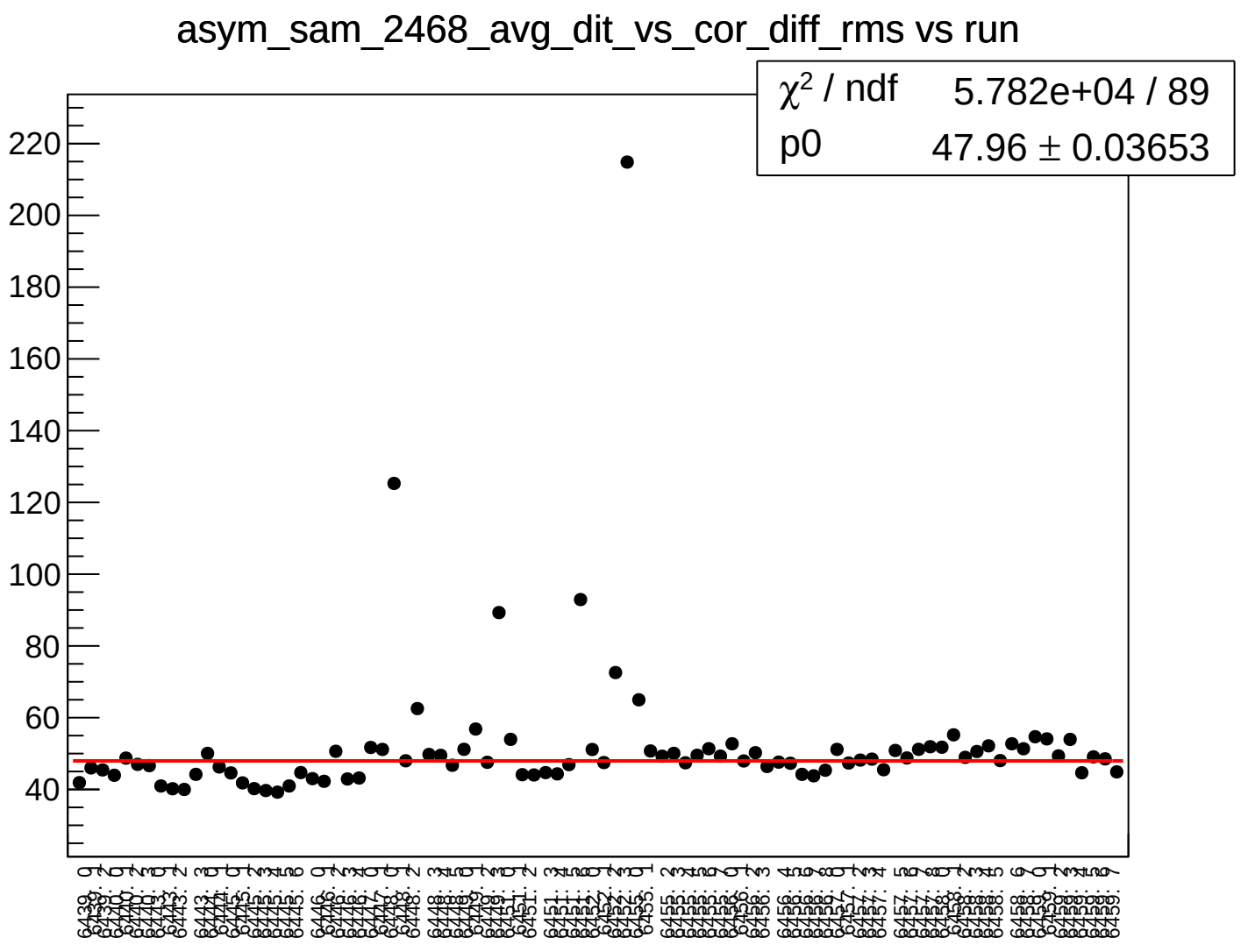

asym_sam_2468_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 83.32 / 89
p0 6.1e−15 ± 2.925e−14
0.6
0.4
0.2
0
−0.2
−0.4
pull
Entries 90
Mean 47.29
Std Dev 21.59
2
1
0
−1
−2

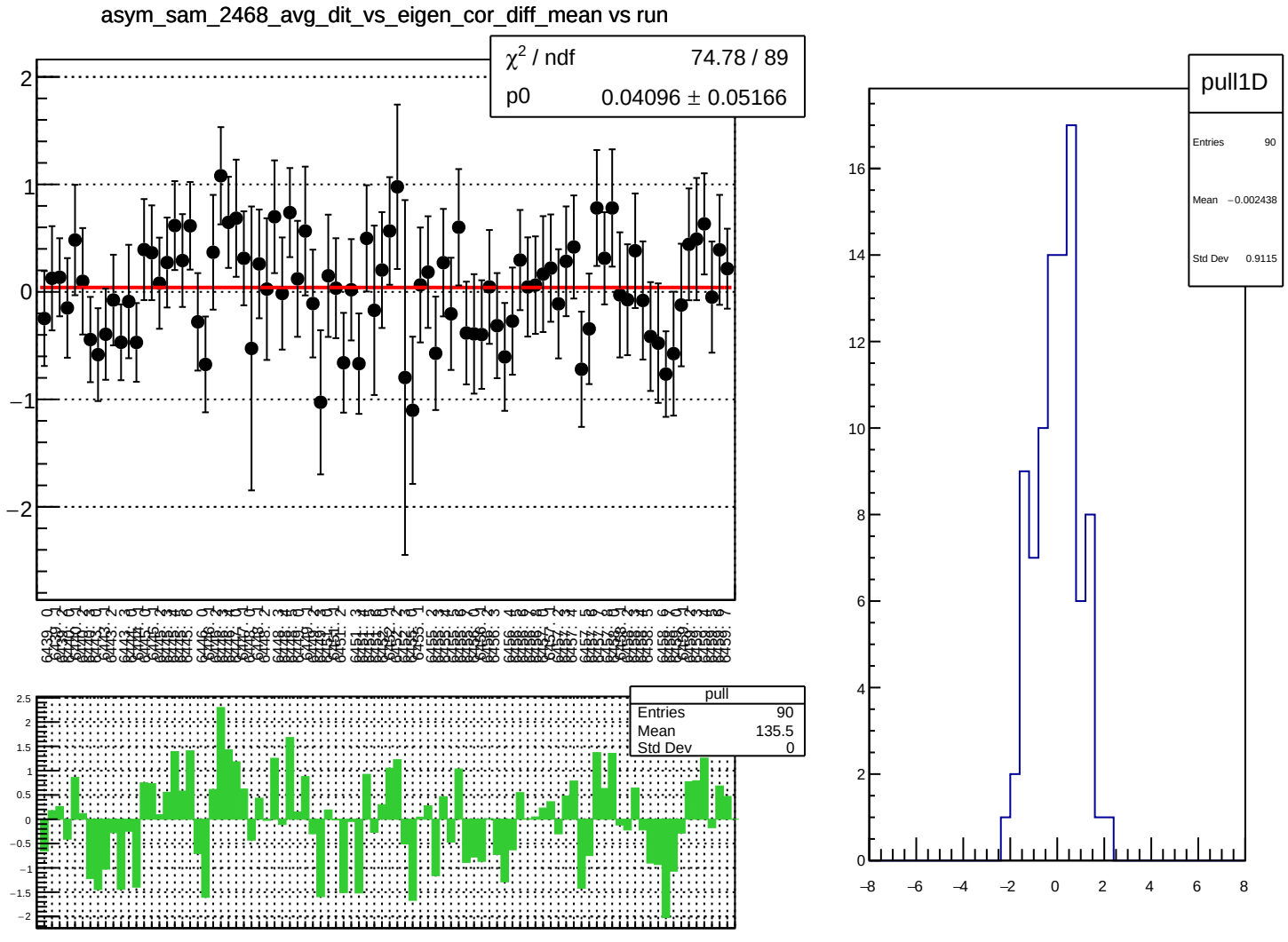

pull1D
Entries 90
Mean −0.1256
Std Dev 0.954
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

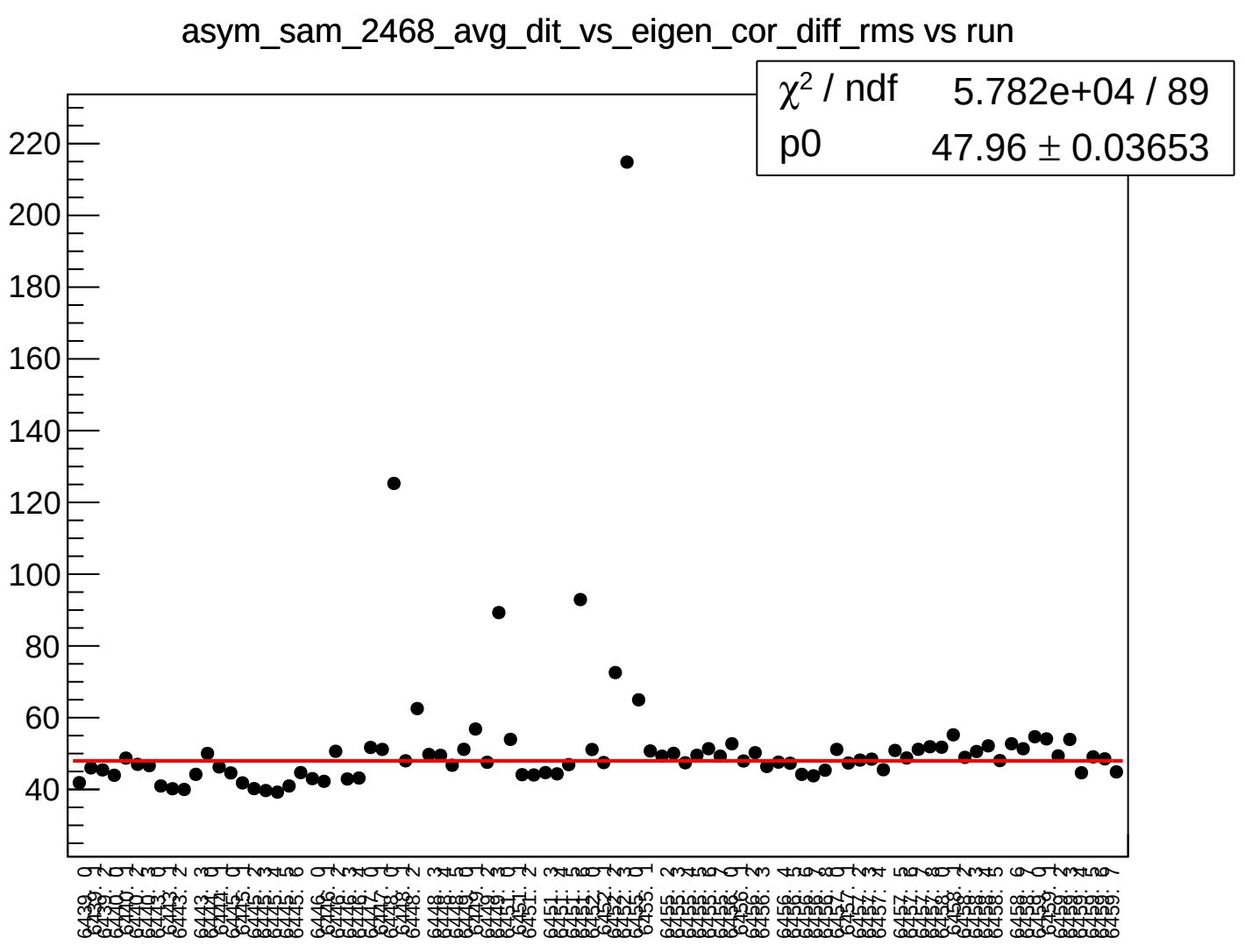

asym_sam_2468_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.128e+06 / 89
p0 1.672e−11 ± 2.068e−14
0.025
0.02
0.015
0.01
0.005
0

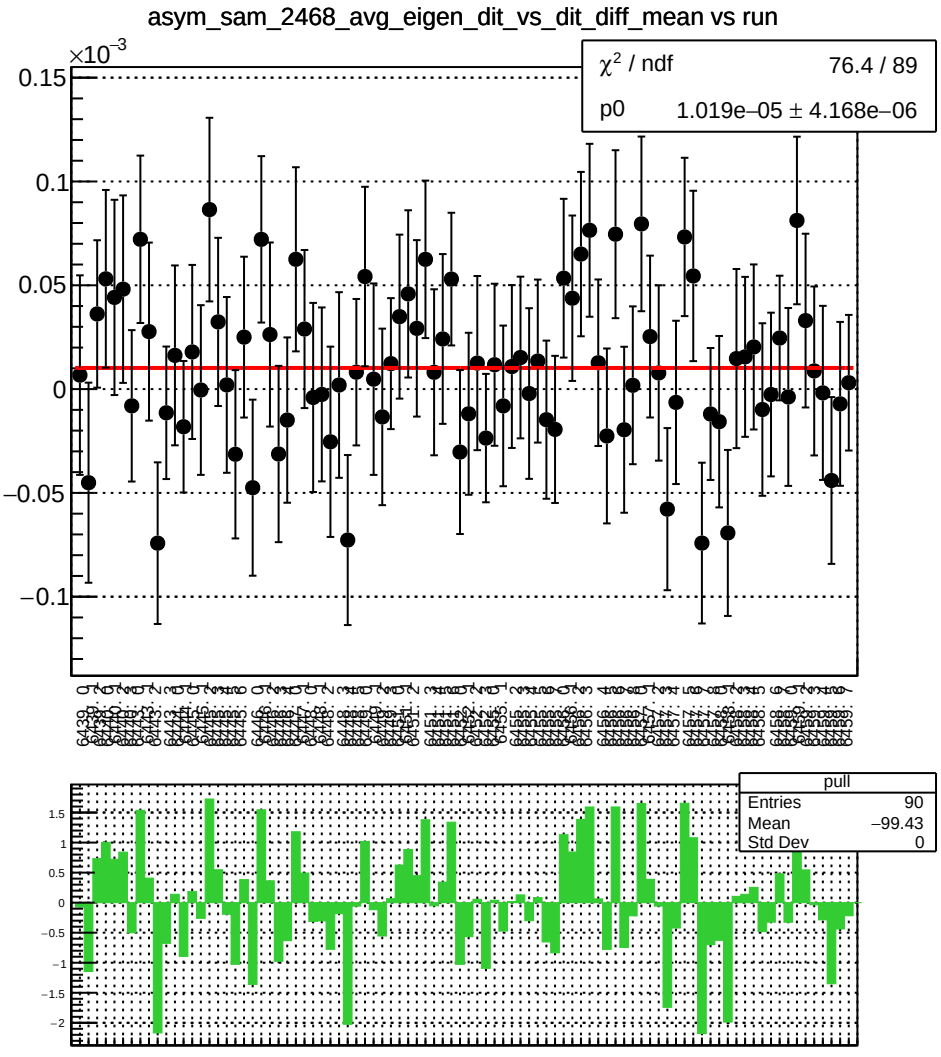

asym_sam_2468_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 74.78 / 89
p0 0.04096 ± 0.05166
pull
Entries 90
Mean 135.5
Std Dev 0

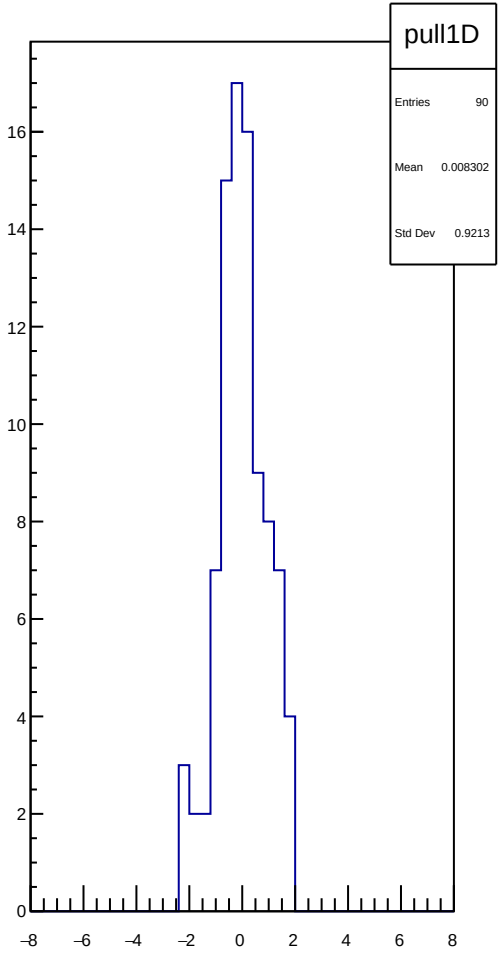

pull1D
Entries 90
Mean −0.002438
Std Dev 0.9115

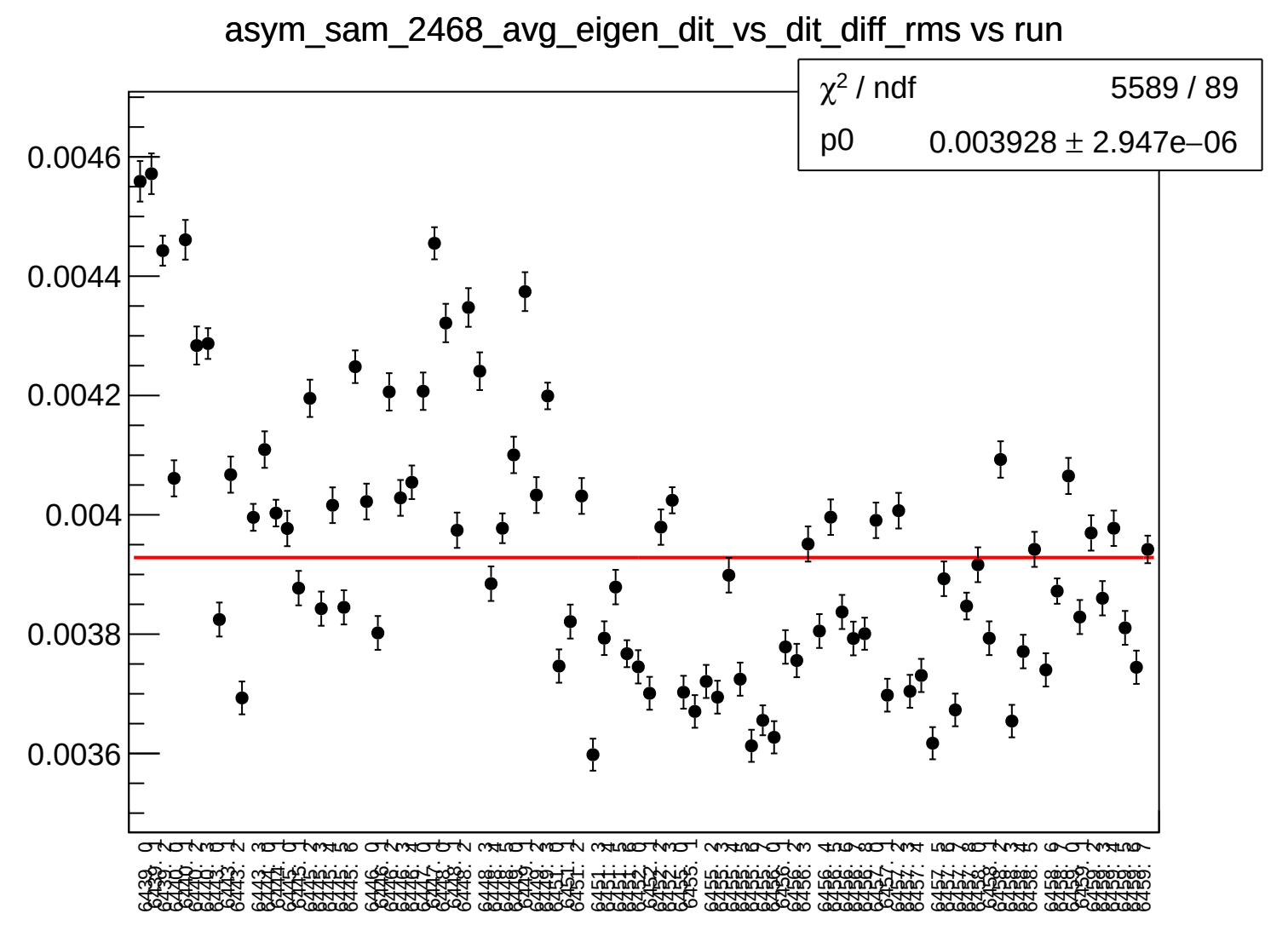

asym_sam_2468_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 5.782e+04 / 89
p0 47.96 ± 0.03653
220
200
180
160
140
120
100
80
60
40

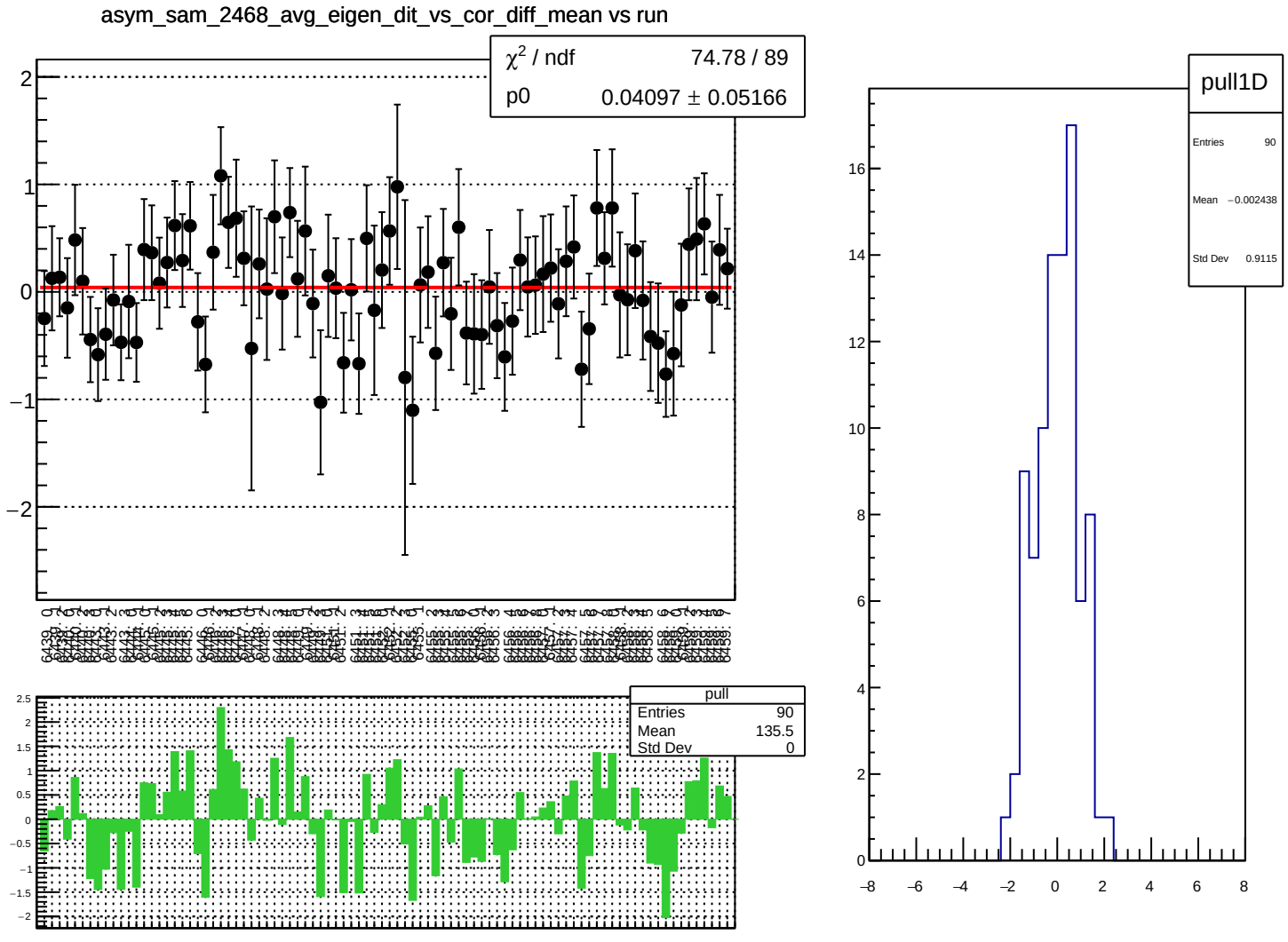

asym_sam_2468_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.78 / 89
p0 0.04096 ± 0.05166
pull
Entries 90
Mean 135.5
Std Dev 0
pull1D
Entries 90
Mean −0.002438
Std Dev 0.9115

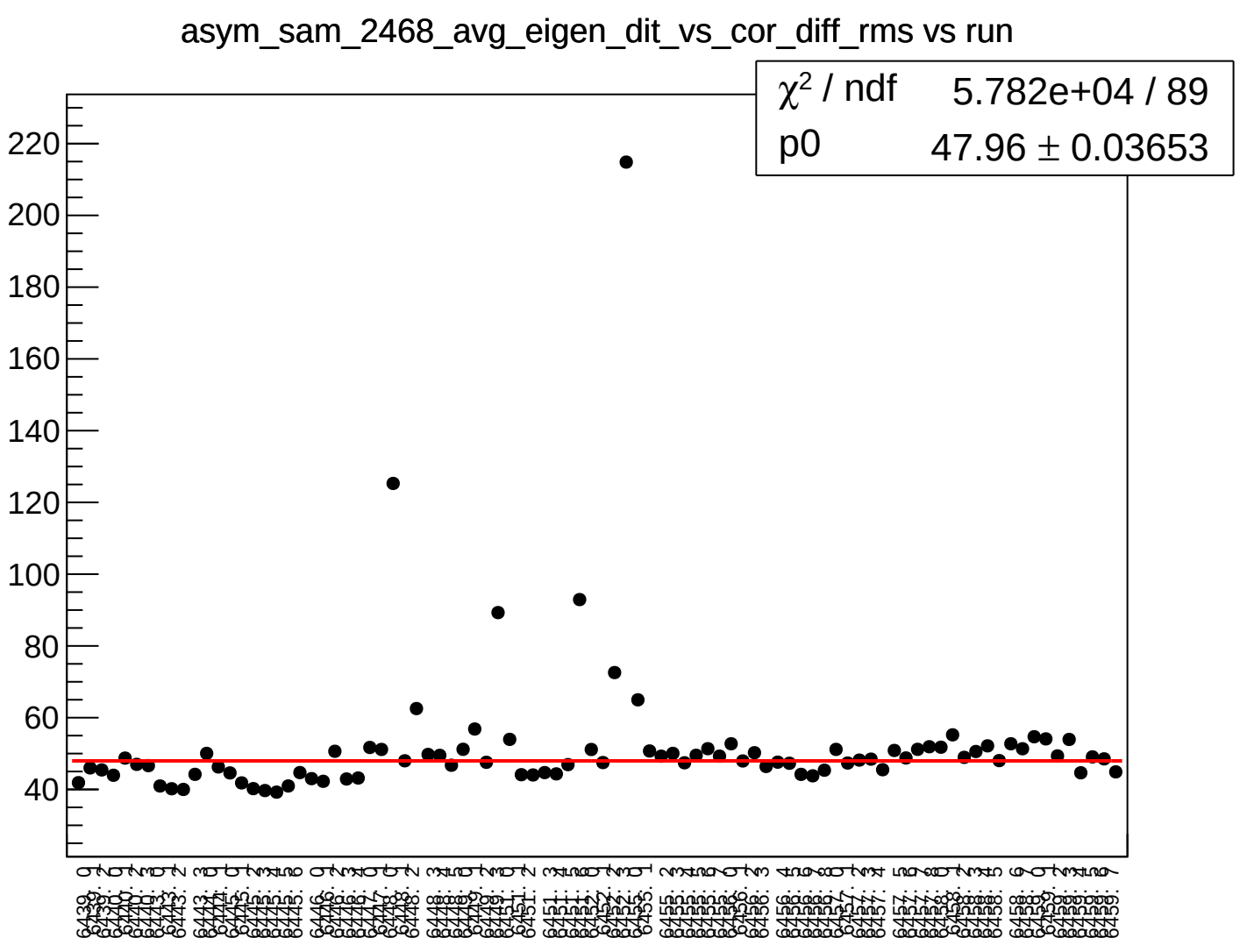

asym_sam_2468_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 5.782e+04 / 89
p0 47.96 ± 0.03653
220
200
180
160
140
120
100
80
60
40


asym_sam_2468_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 76.4 / 89
p0 1.019e−05 ± 4.168e−06
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 90
Mean −99.43
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

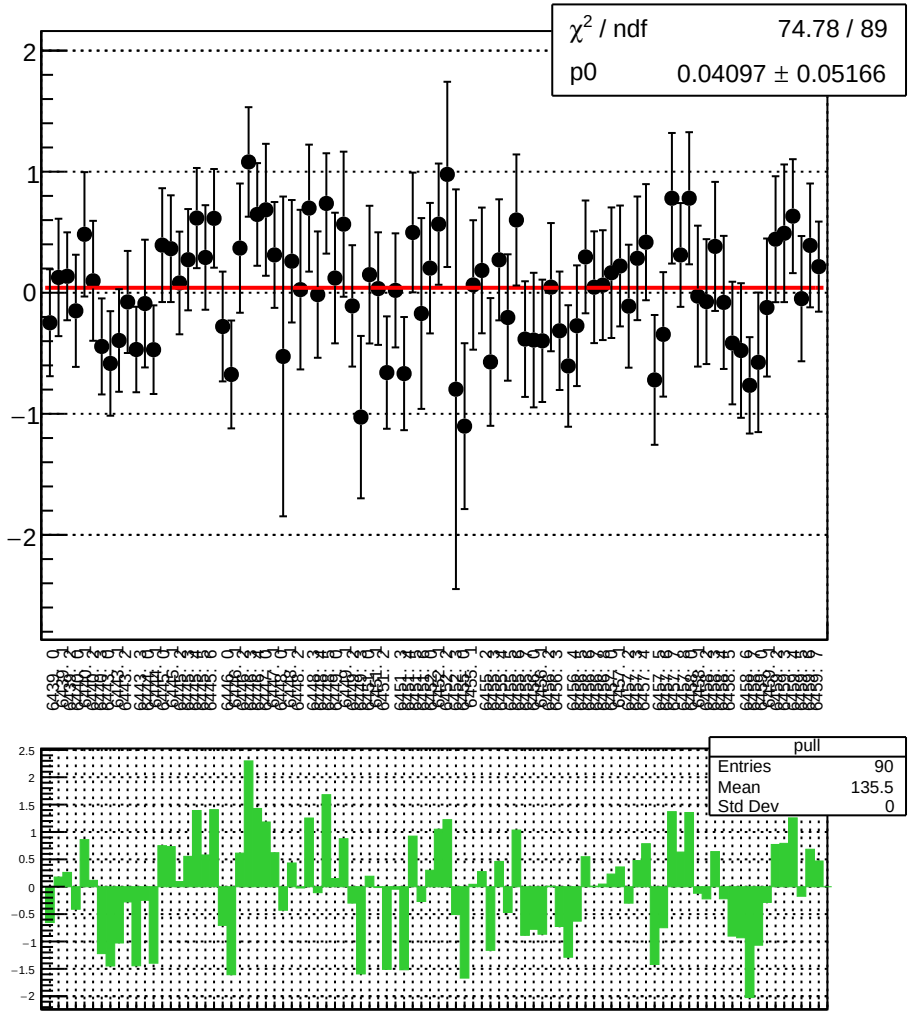

pull1D
Entries 90
Mean 0.008302
Std Dev 0.9213
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

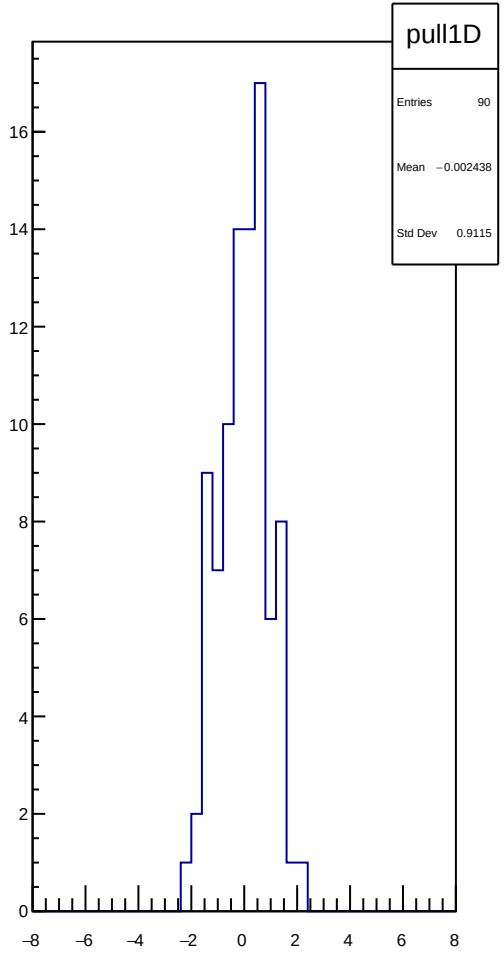

asym_sam_2468_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5589 / 89
p0 0.003928 ± 2.947e−06
0.0046
0.0044
0.0042
0.004
0.0038
0.0036

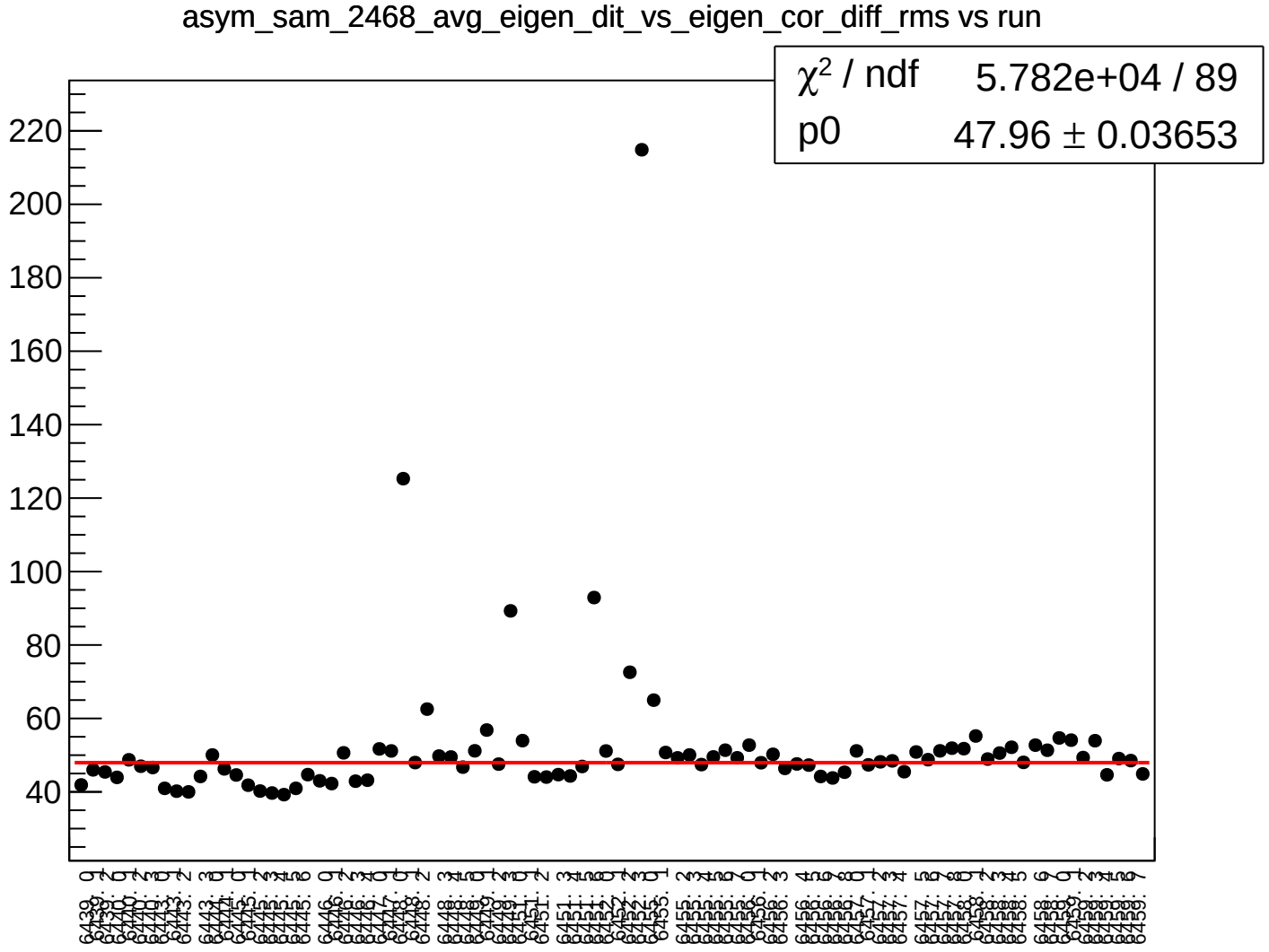

asym_sam_2468_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 74.78 / 89
p0 0.04097 ± 0.05166
pull
Entries 90
Mean 135.5
Std Dev 0
pull1D
Entries 90
Mean −0.002438
Std Dev 0.9115

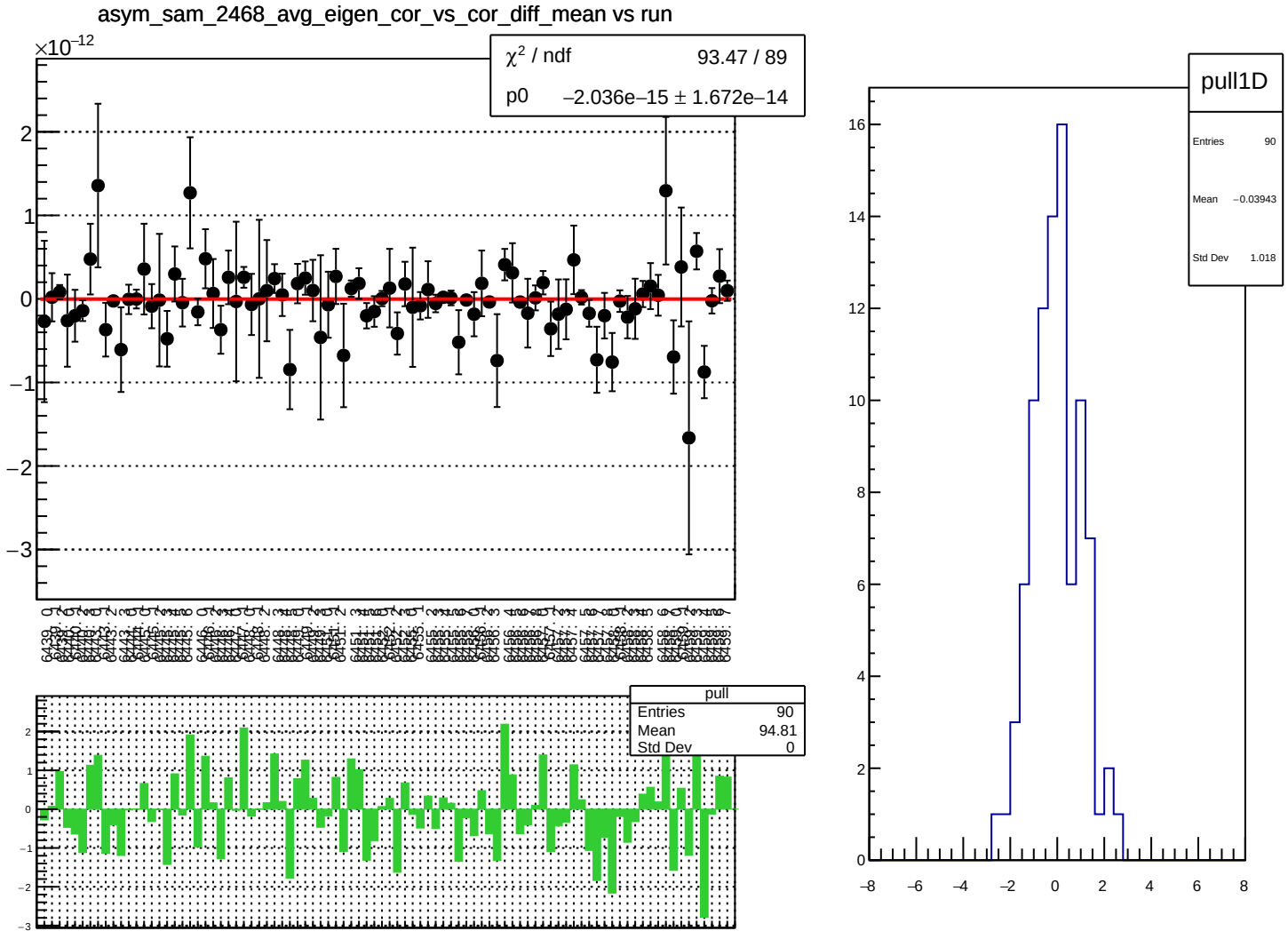

asym_sam_2468_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 5.782e+04 / 89
p0 47.96 ± 0.03653
220
200
180
160
140
120
100
80
60
40

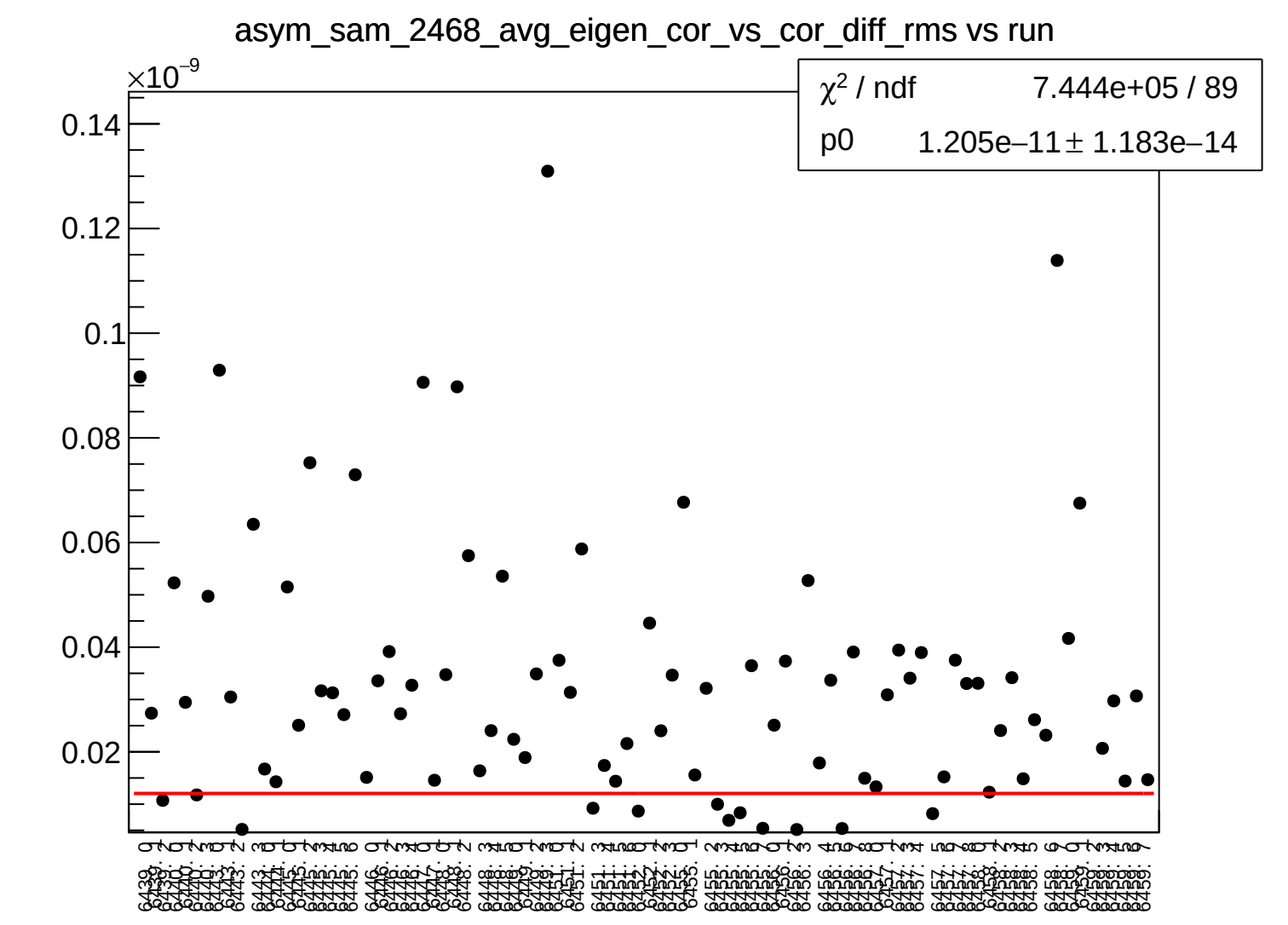
asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_mean vs run

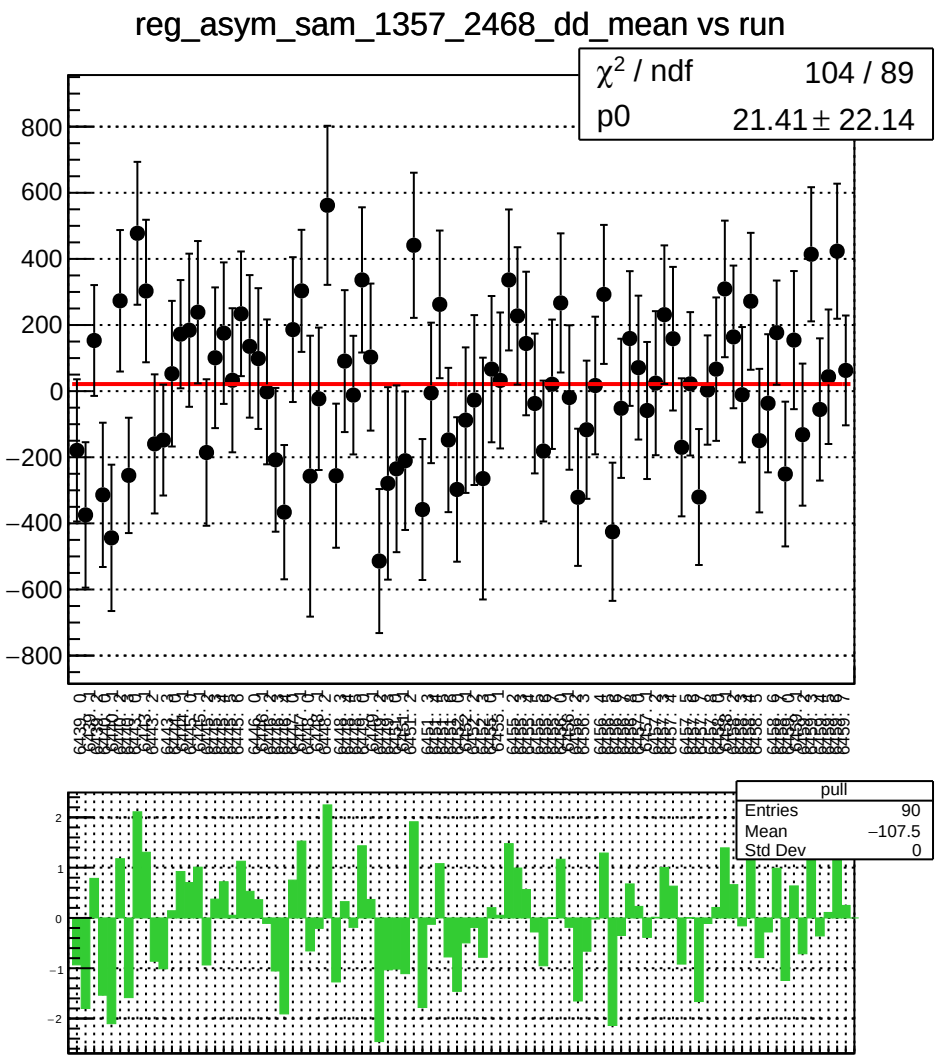


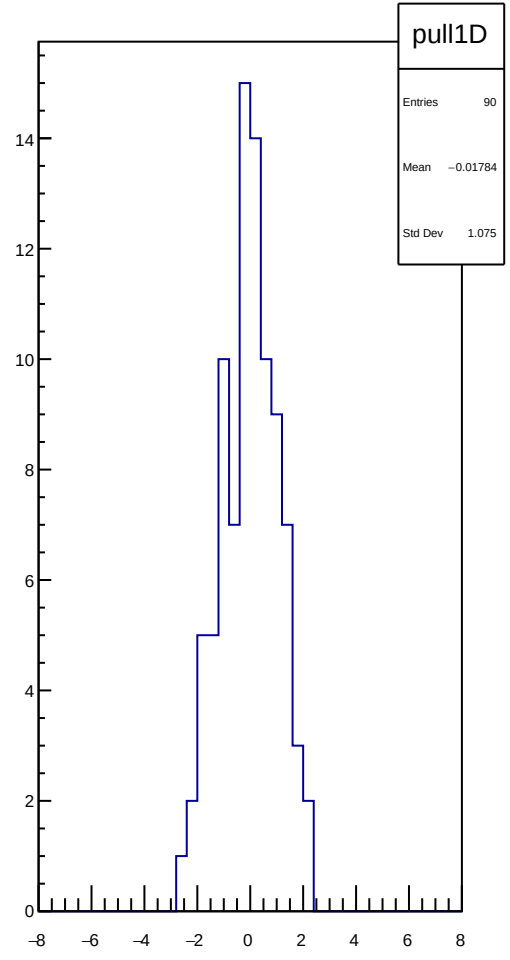


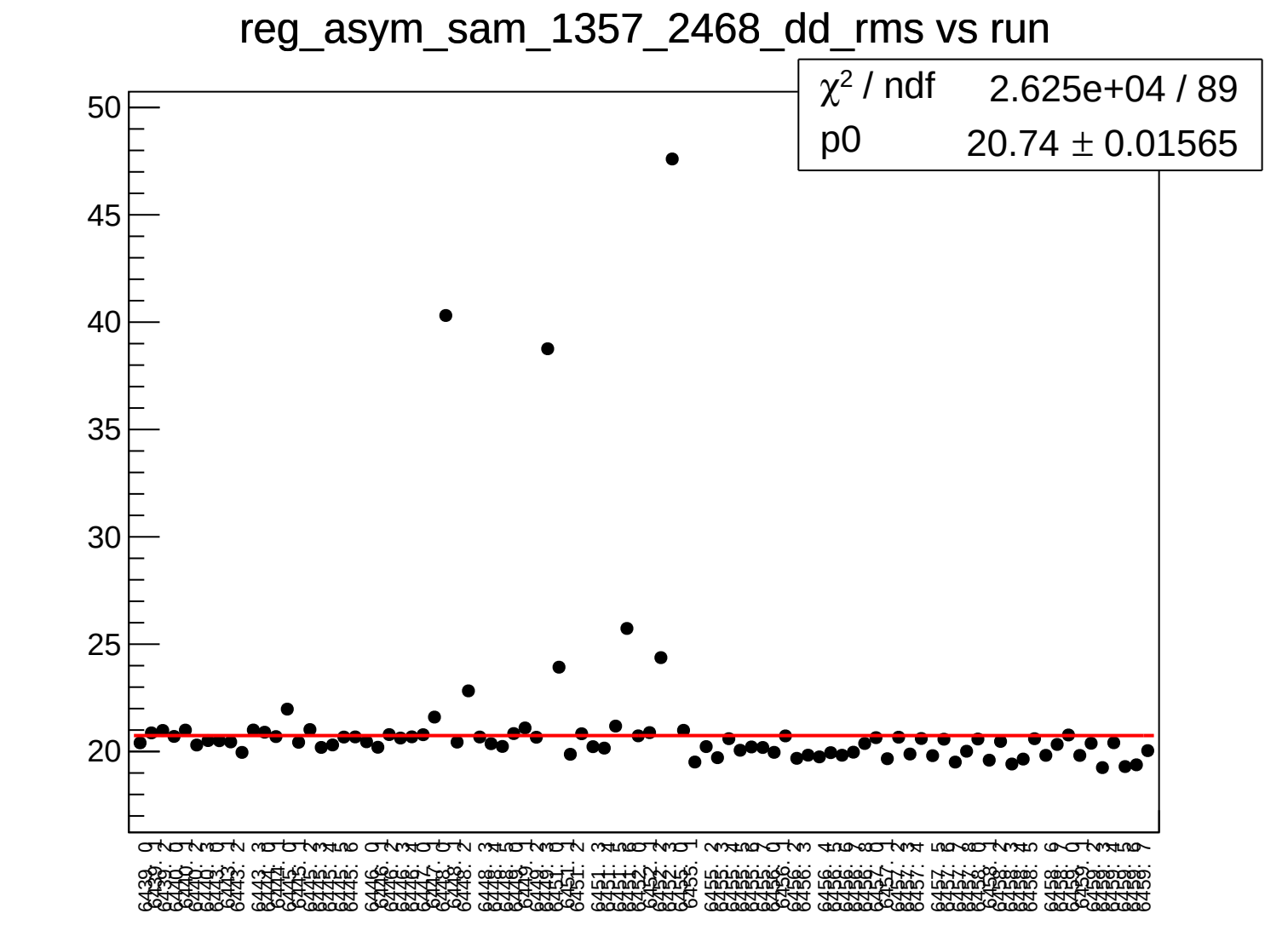

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.782e+04 / 89
p0 47.96 ± 0.03653
220
200
180
160
140
120
100
80
60
40

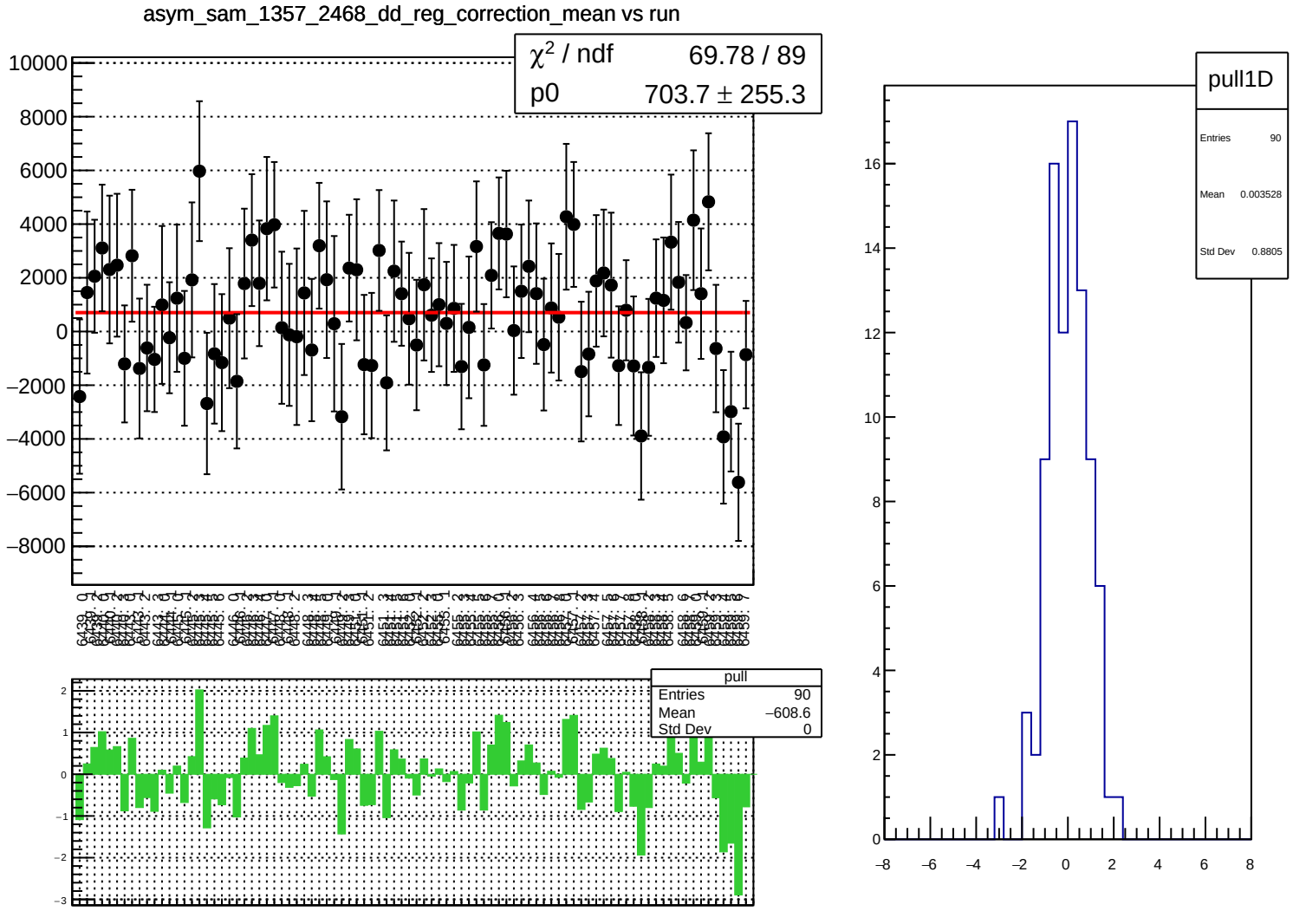

asym_sam_2468_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.47 / 89
p0 −2.036e−15 ± 1.672e−14
pull
Entries 90
Mean 94.81
Std Dev 0
pull1D
Entries 90
Mean −0.03943
Std Dev 1.018

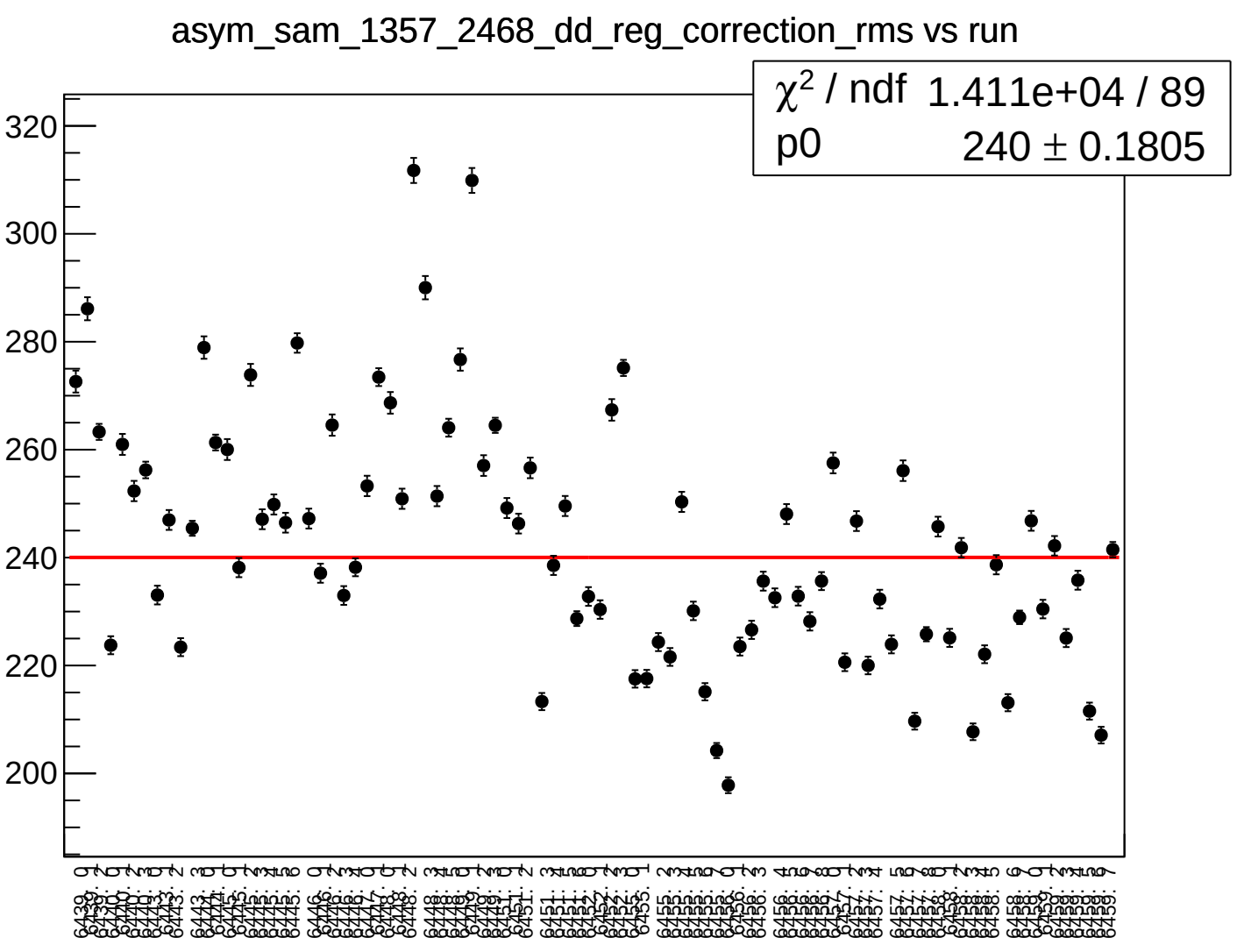

asym_sam_2468_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.444e+05 / 89
p0 1.205e−11 ± 1.183e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

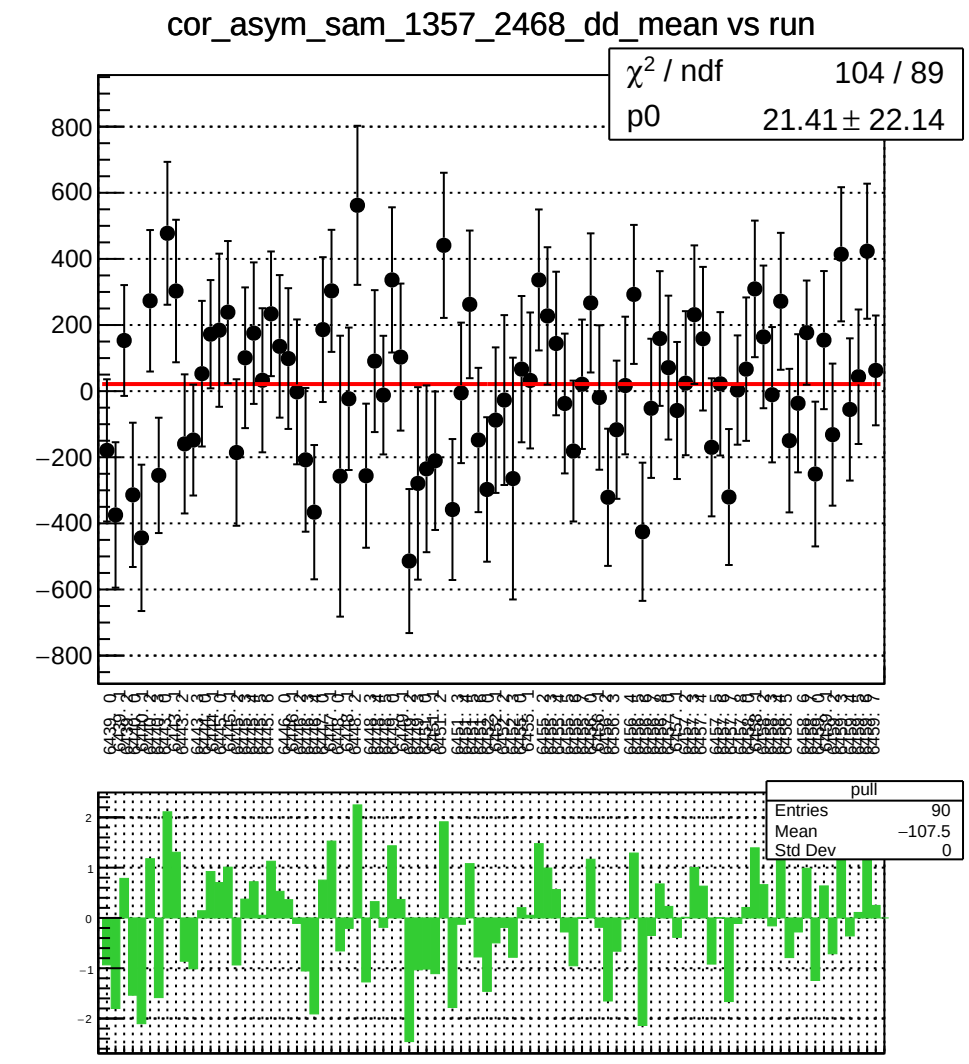

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 104 / 89
p0 21.41 ± 22.14
pull
Entries 90
Mean −107.5
Std Dev 0

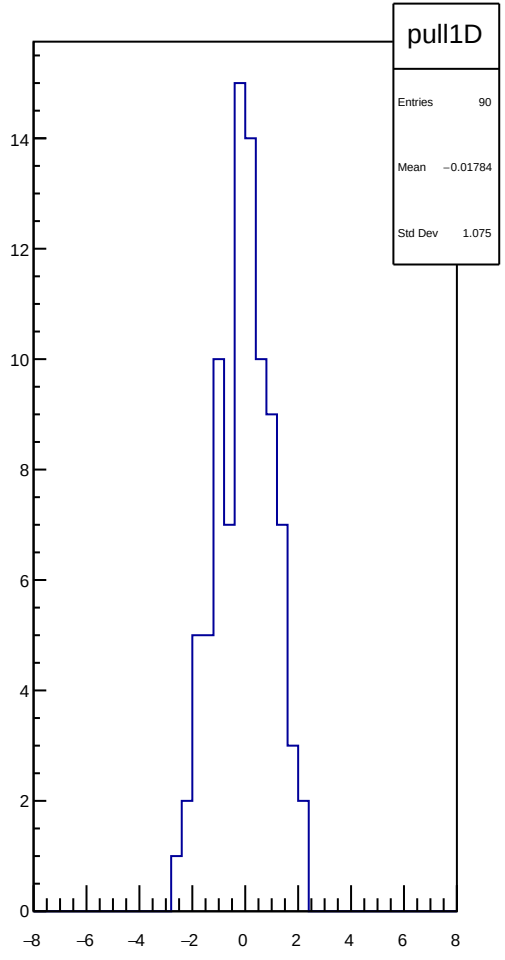

pull1D
Entries 90
Mean −0.01784
Std Dev 1.075

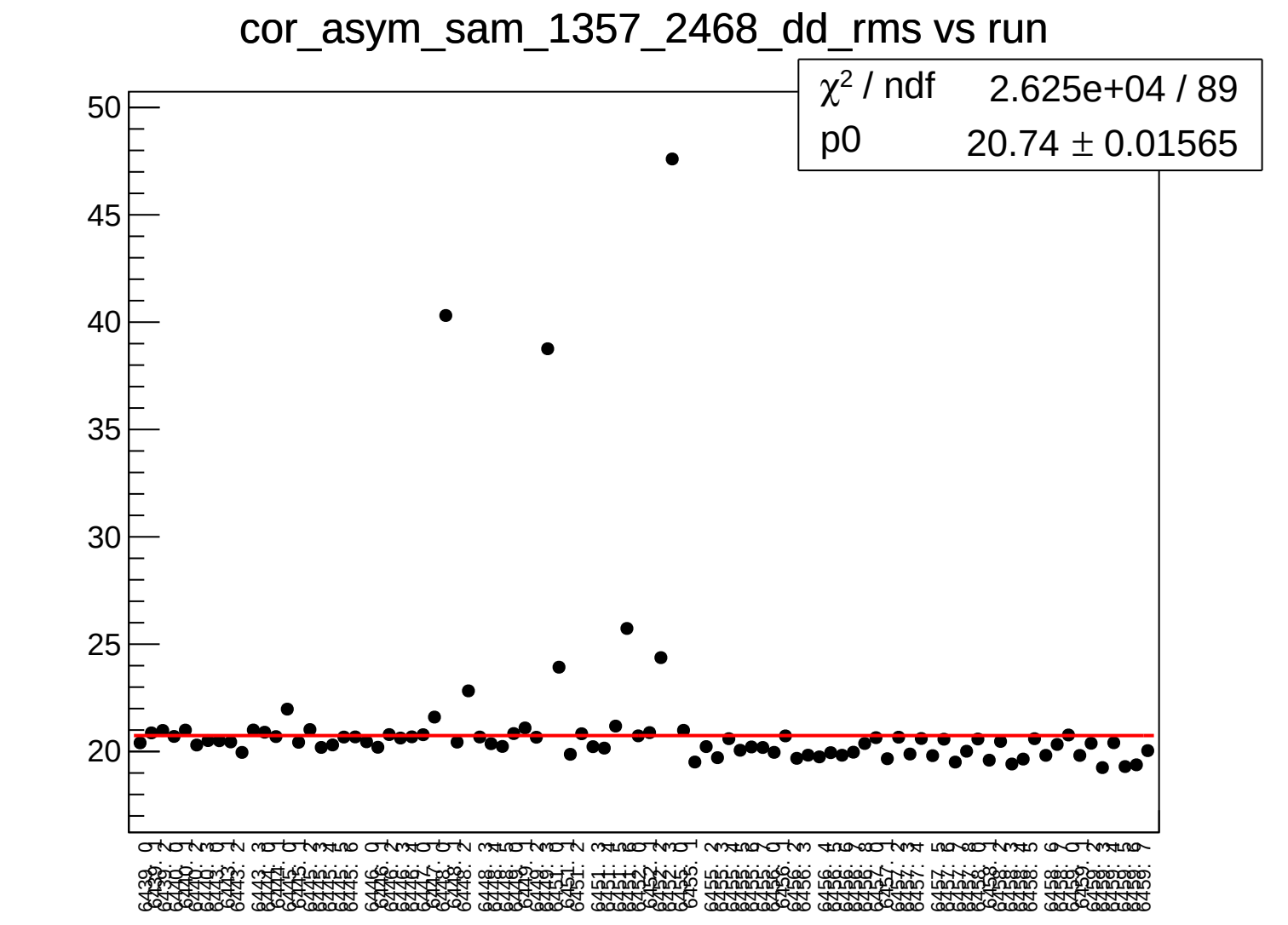

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2.625e+04 / 89
p0 20.74 ± 0.01565
50
45
40
35
30
25
20

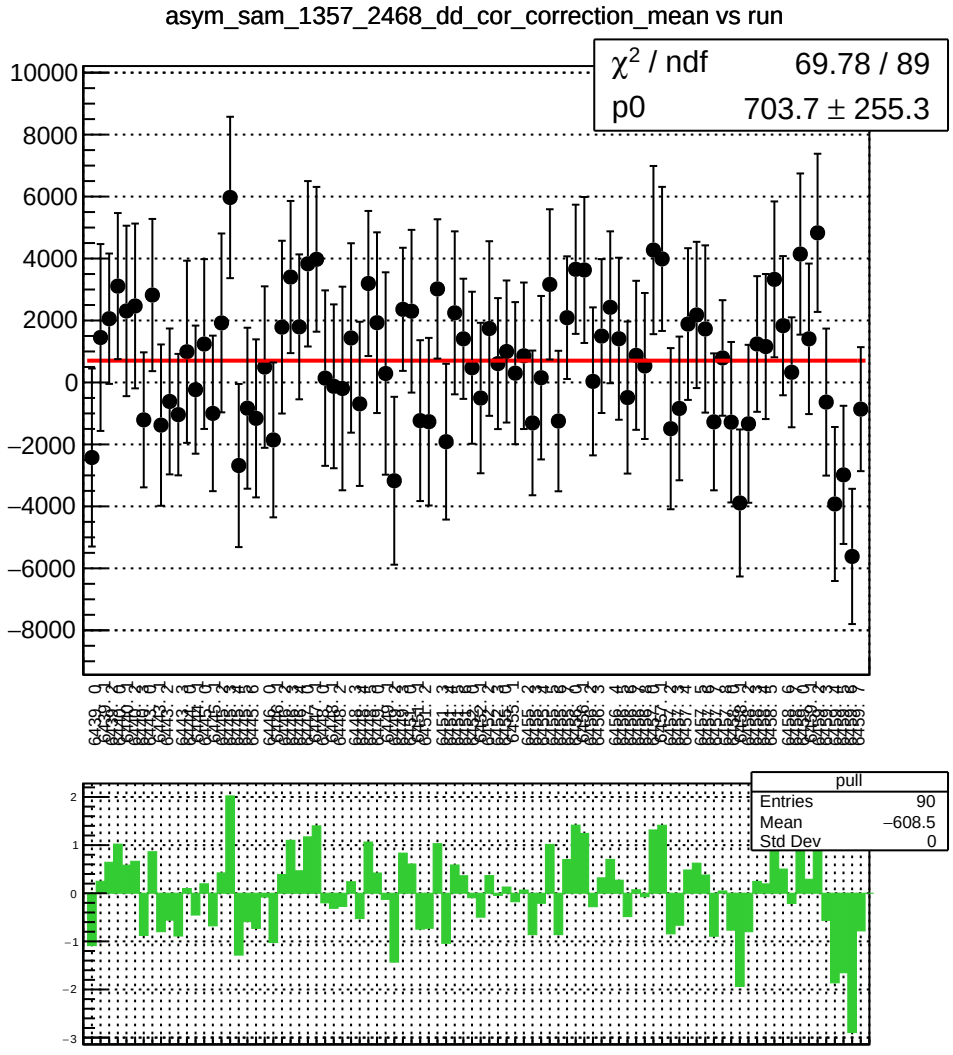

asym_sam_1357_2468_dd_reg_correction_mean vs run
χ² / ndf 69.78 / 89
p0 703.7 ± 255.3
pull
Entries 90
Mean −608.6
Std Dev 0
pull1D
Entries 90
Mean 0.003528
Std Dev 0.8805

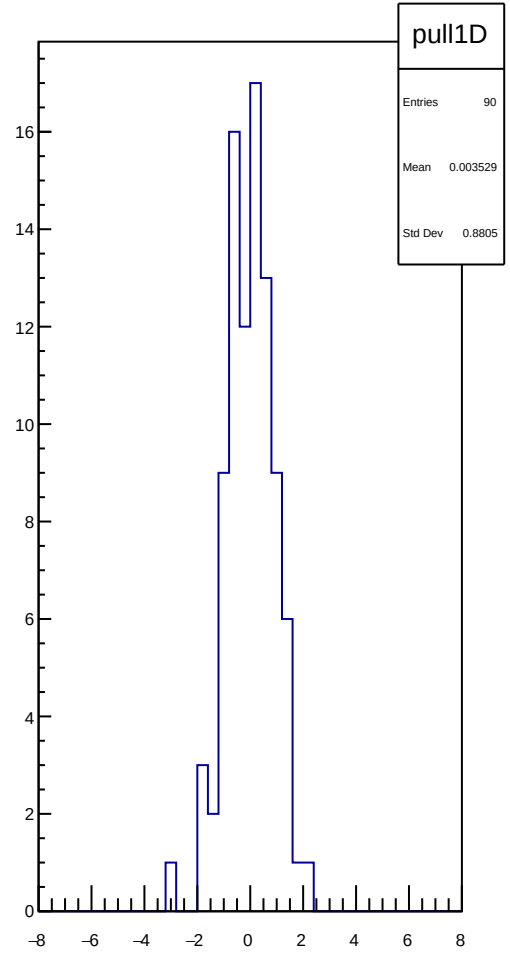

asym_sam_1357_2468_dd_reg_correction_rms vs run
χ² / ndf 1.411e+04 / 89
p0 240 ± 0.1805
320
300
280
260
240
220
200

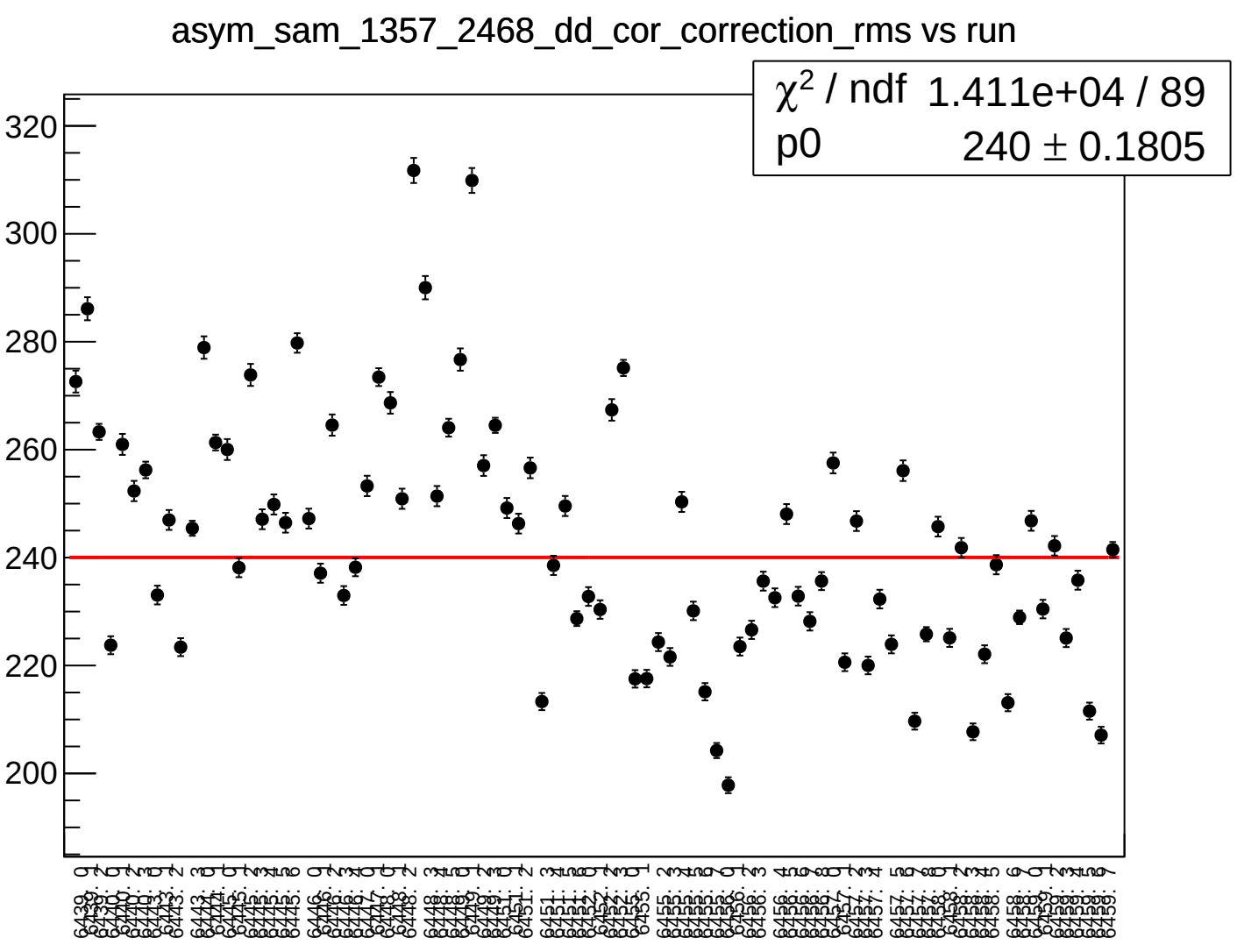

cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 104 / 89
p0 21.41 ± 22.14
pull
Entries 90
Mean −107.5
Std Dev 0

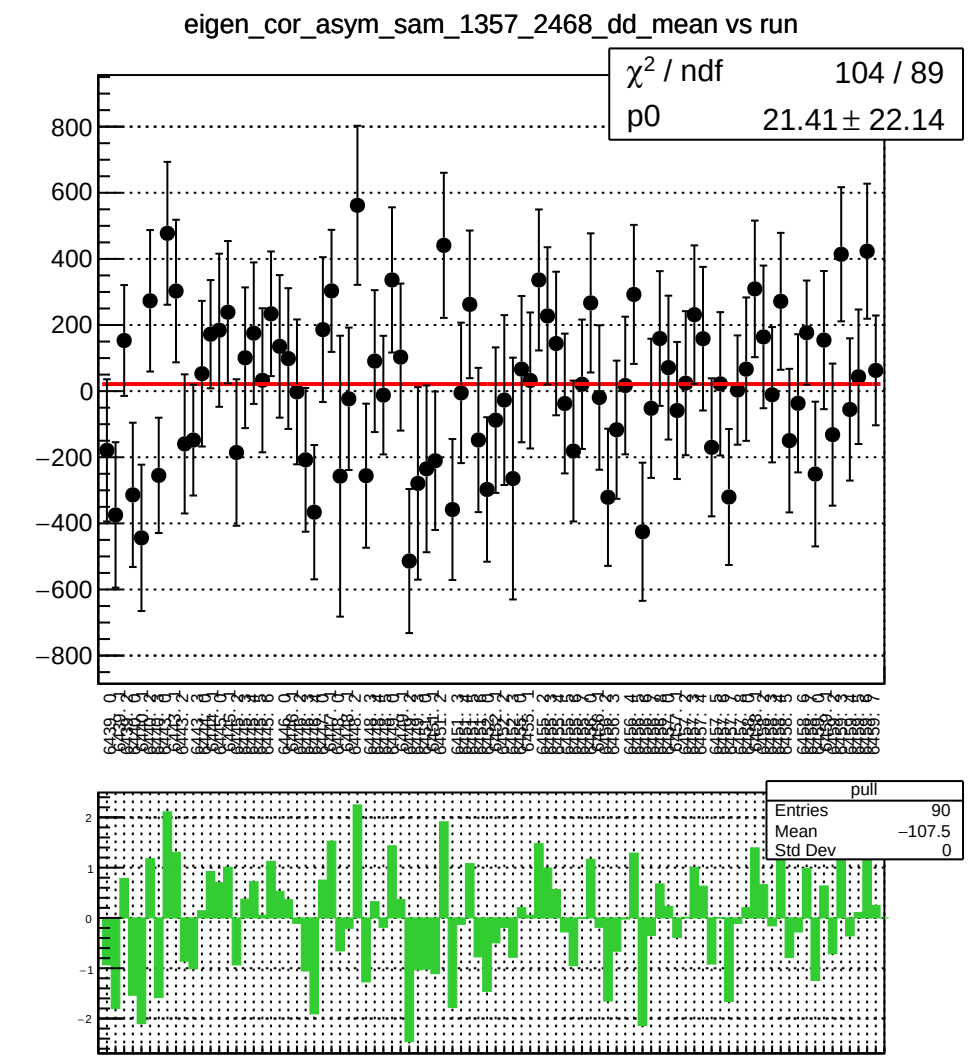

pull1D
Entries 90
Mean −0.01784
Std Dev 1.075

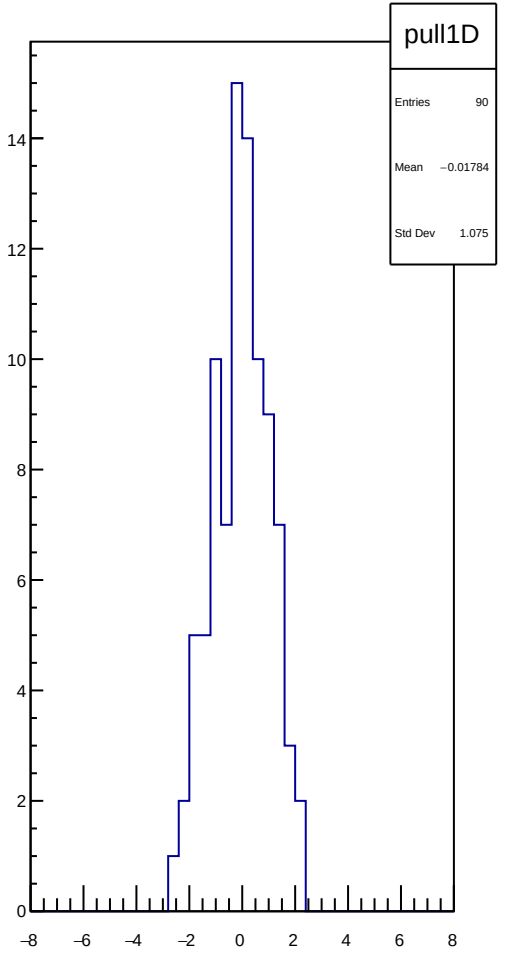

cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2.625e+04 / 89
p0 20.74 ± 0.01565
50
45
40
35
30
25
20

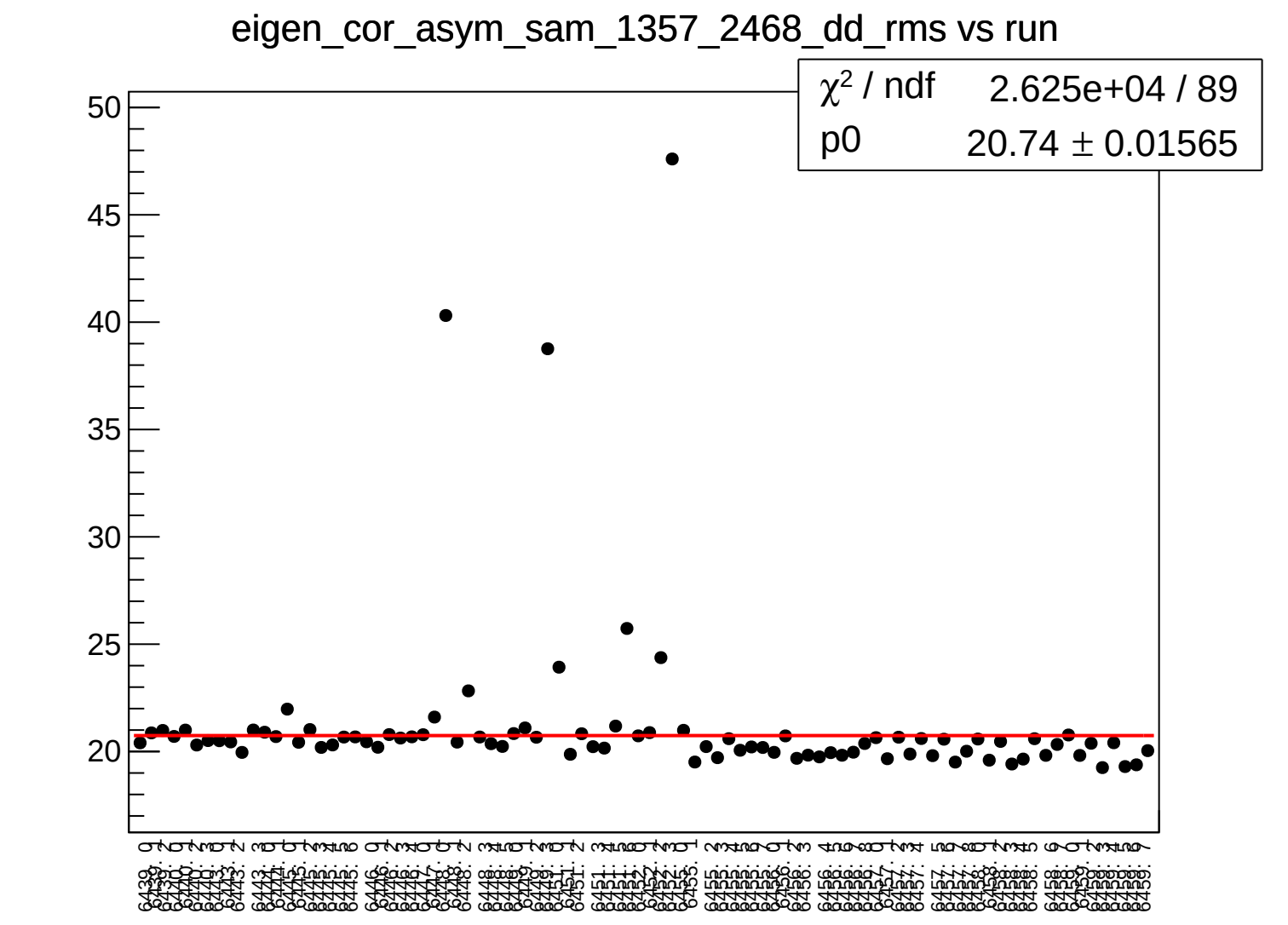

asym_sam_1357_2468_dd_cor_correction_mean vs run
χ² / ndf 69.78 / 89
p0 703.7 ± 255.3
pull
Entries 90
Mean −608.5
Std Dev 0

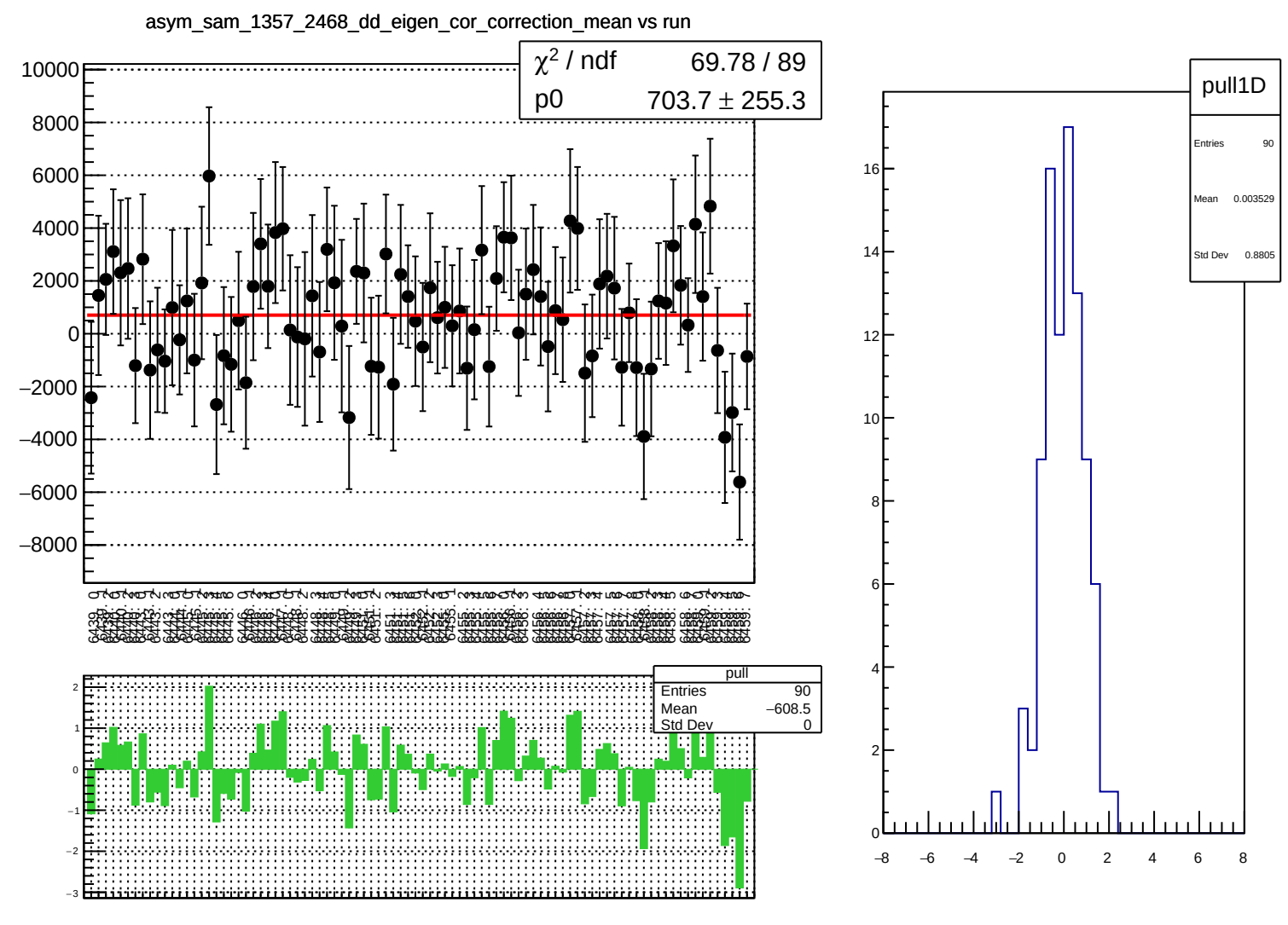

pull1D
Entries 90
Mean 0.003529
Std Dev 0.8805

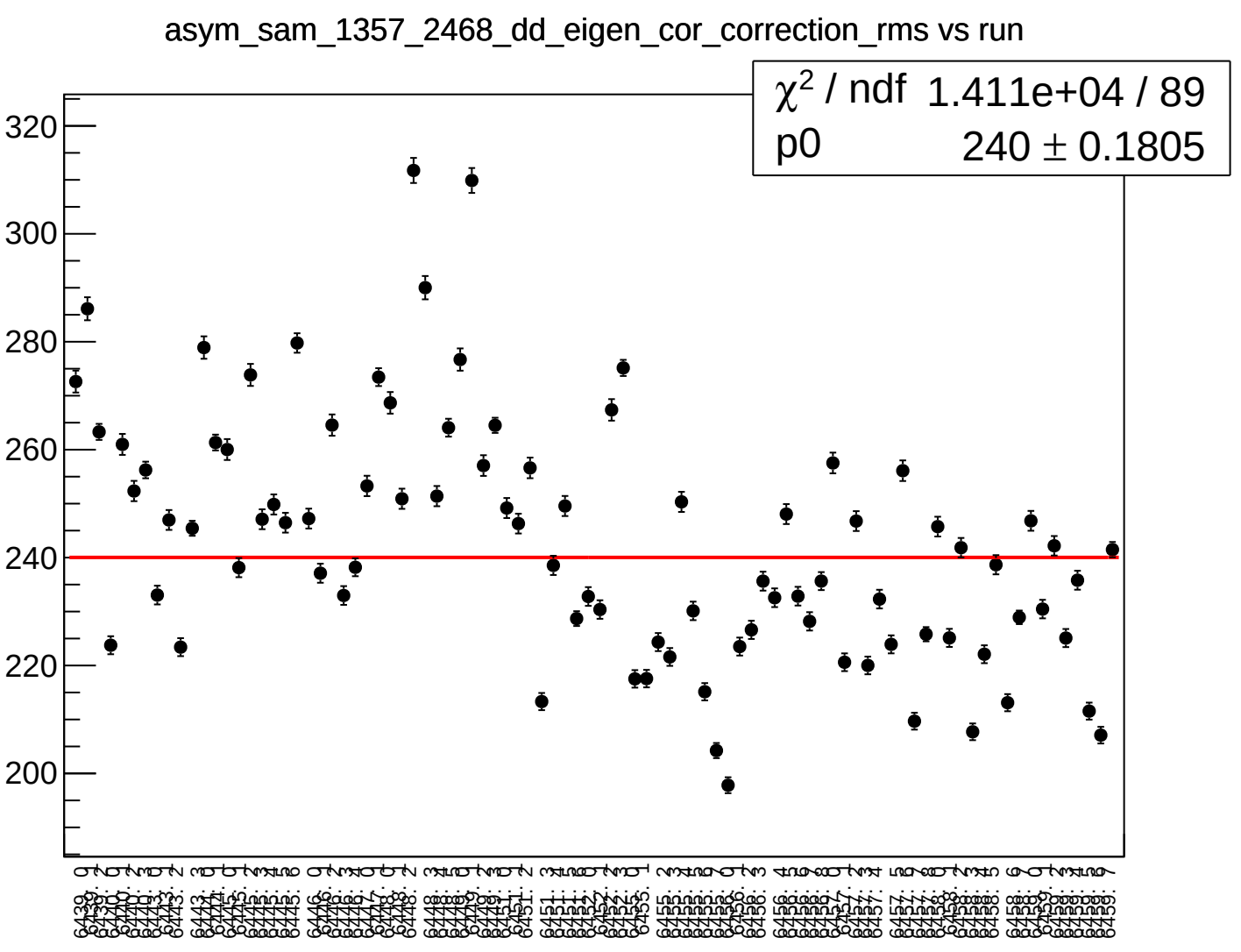

asym_sam_1357_2468_dd_cor_correction_rms vs run
χ² / ndf 1.411e+04 / 89
p0 240 ± 0.1805
320
300
280
260
240
220
200

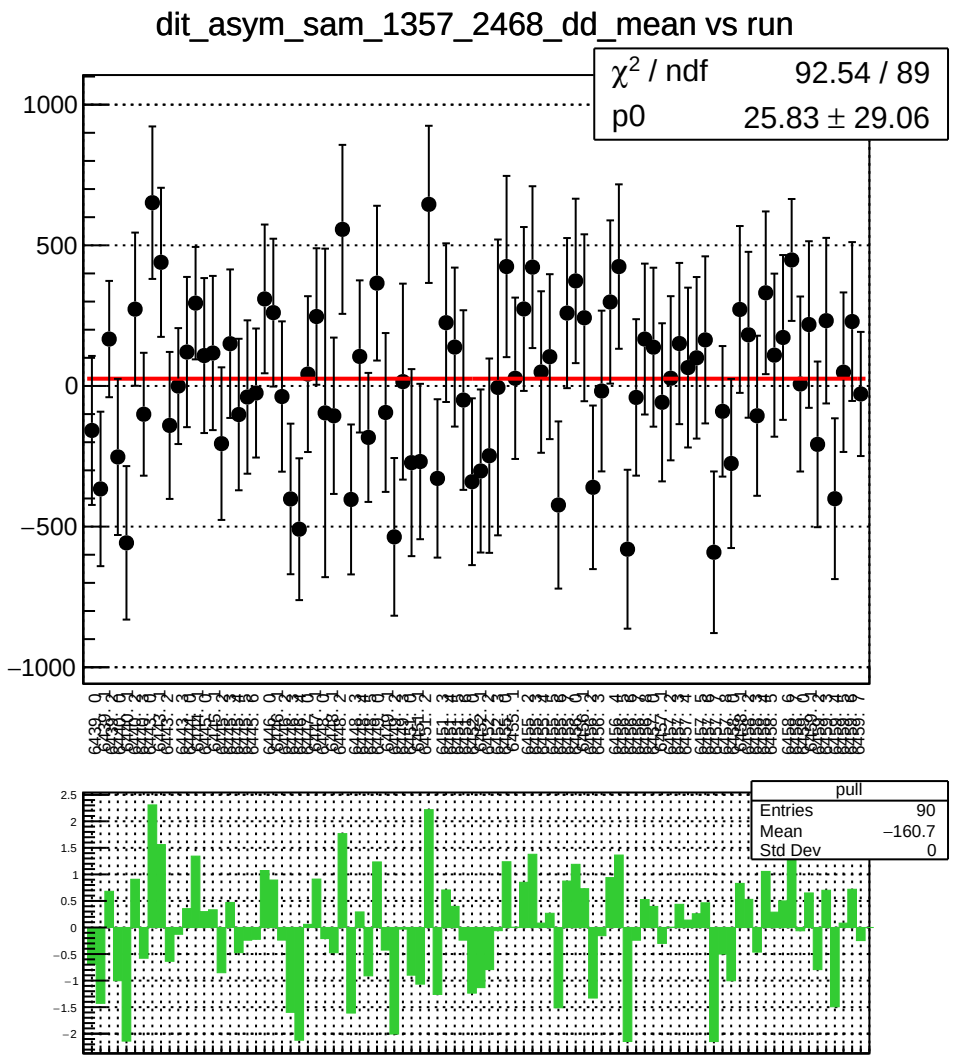

eigen_cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 104 / 89
p0 21.41 ± 22.14
pull
Entries 90
Mean −107.5
Std Dev 0

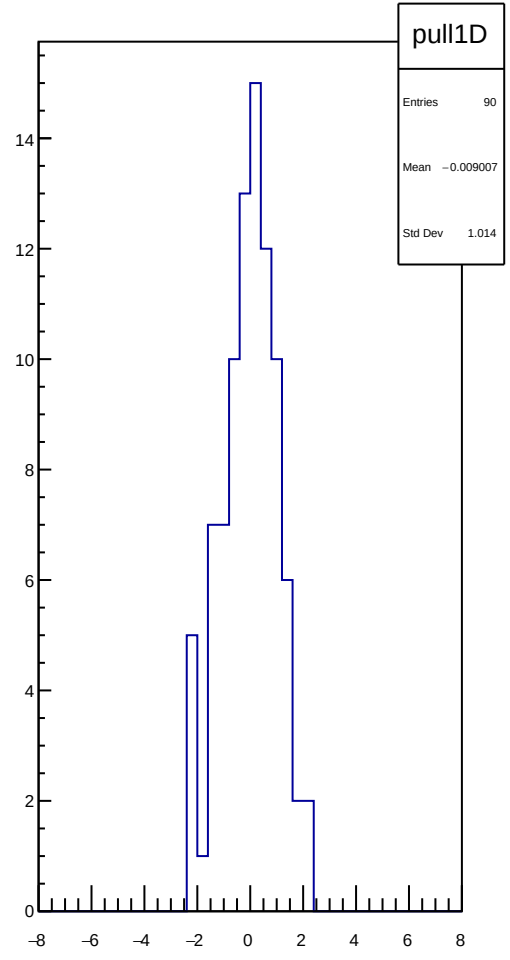

pull1D
Entries 90
Mean −0.01784
Std Dev 1.075

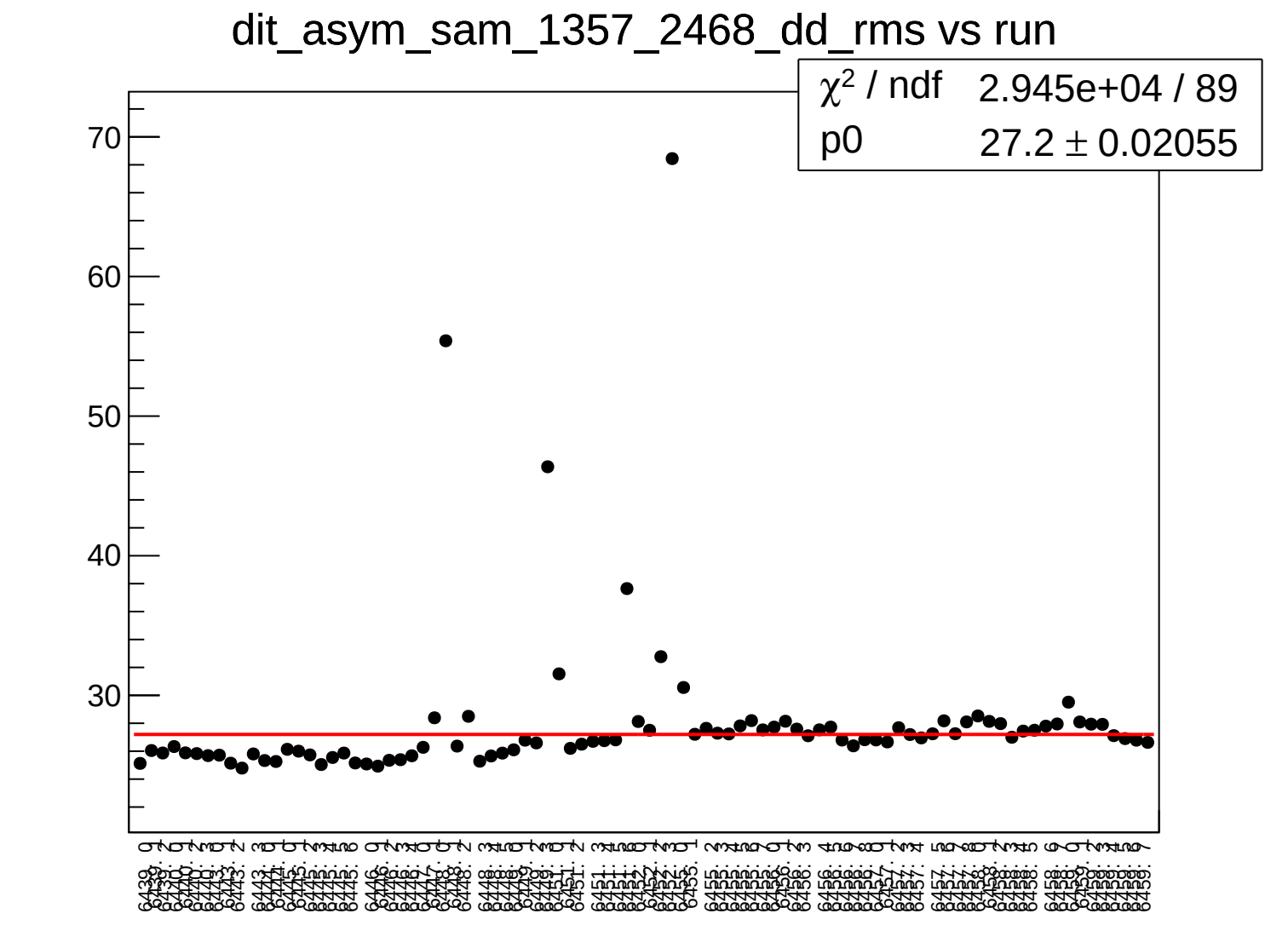

eigen_cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2.625e+04 / 89
p0 20.74 ± 0.01565
50
45
40
35
30
25
20

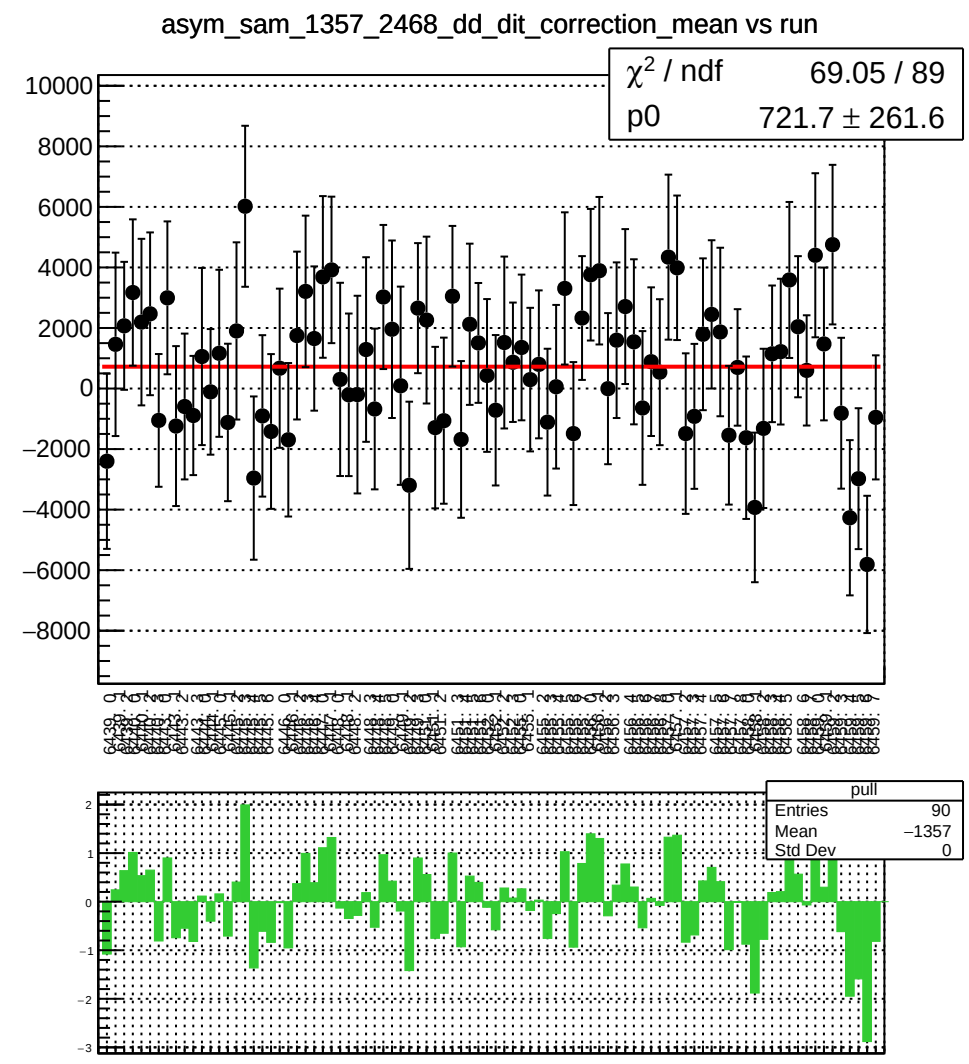

asym_sam_1357_2468_dd_eigen_cor_correction_mean vs run
χ² / ndf 69.78 / 89
p0 703.7 ± 255.3
pull
Entries 90
Mean −608.5
Std Dev 0
pull1D
Entries 90
Mean 0.003529
Std Dev 0.8805

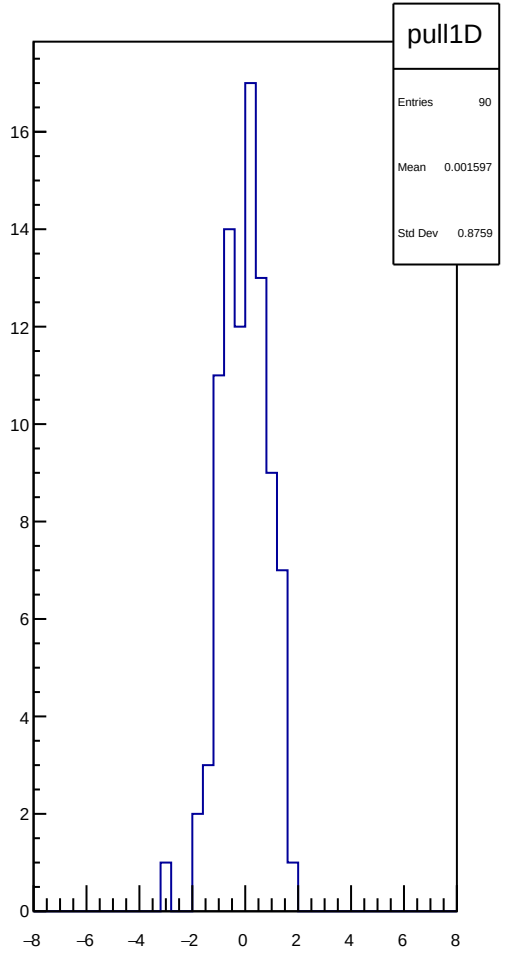

asym_sam_1357_2468_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.411e+04 / 89
p0 240 ± 0.1805
320
300
280
260
240
220
200

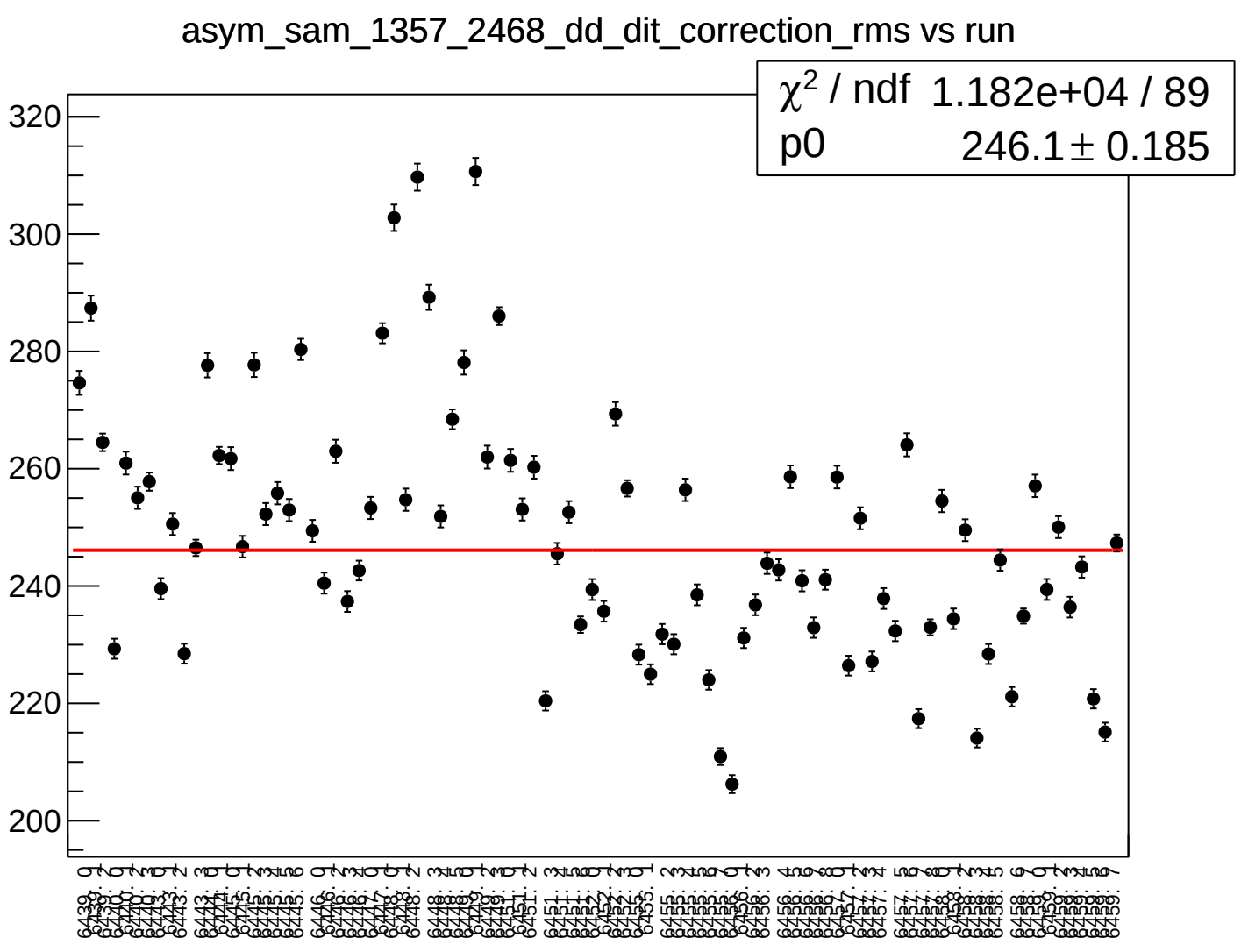

dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 92.54 / 89
p0 25.83 ± 29.06
1000
500
0
−500
−1000
pull
Entries 90
Mean −160.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

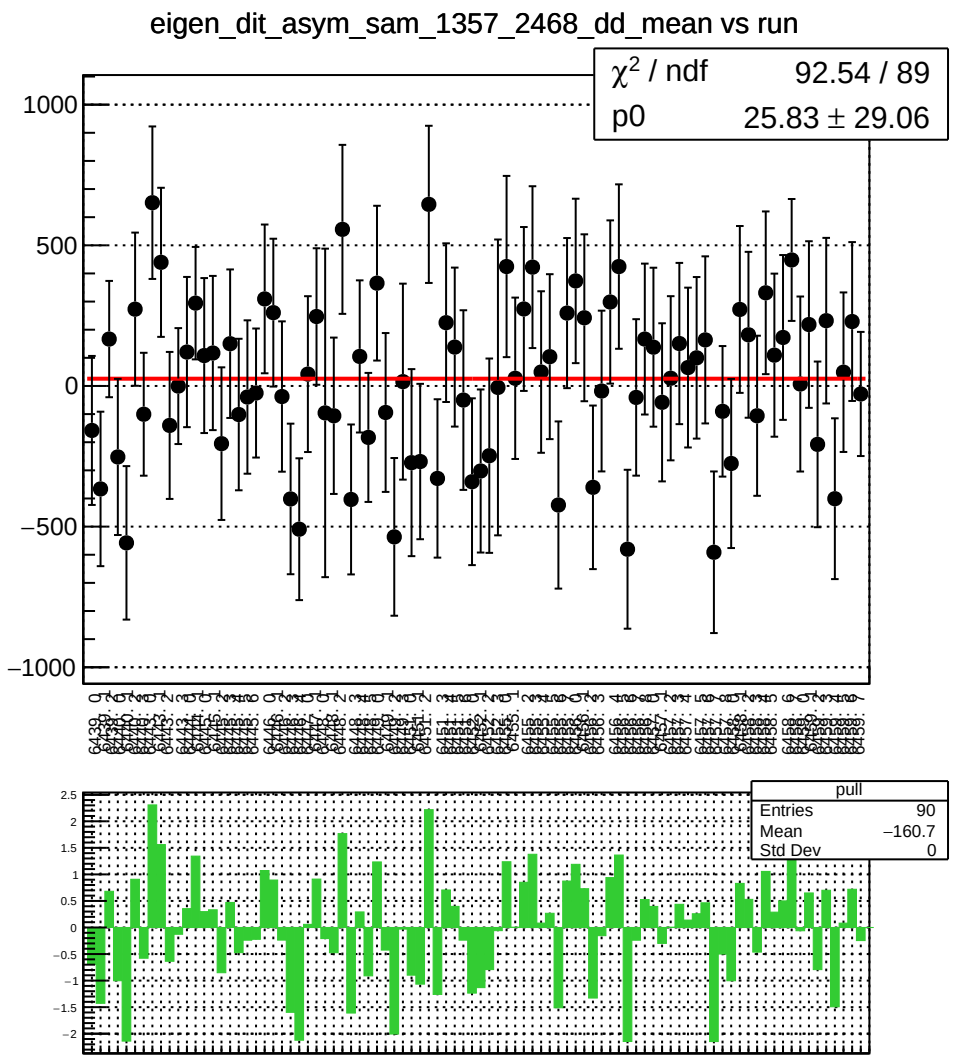

pull1D
Entries 90
Mean −0.009007
Std Dev 1.014
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

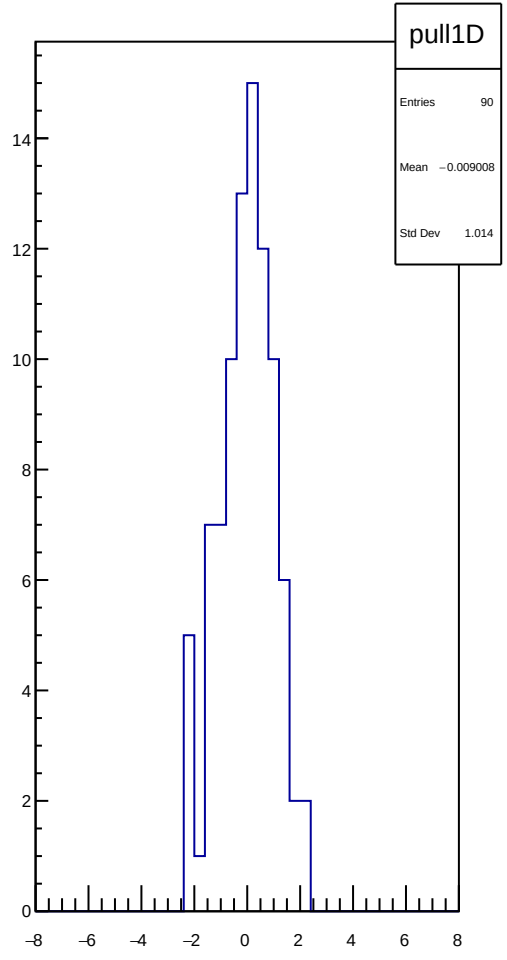

dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2.945e+04 / 89
p0 27.2 ± 0.02055
70
60
50
40
30

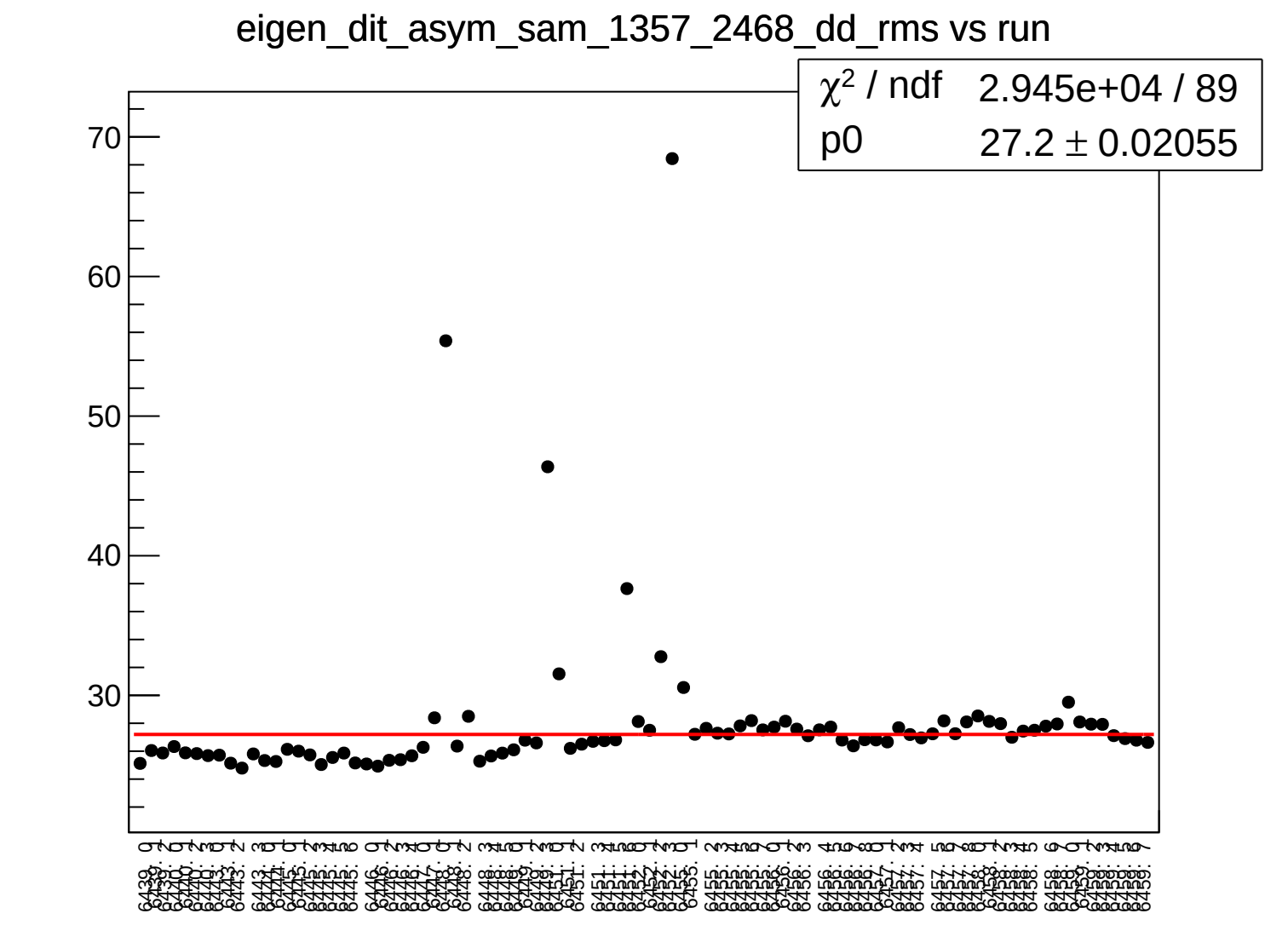

asym_sam_1357_2468_dd_dit_correction_mean vs run
χ² / ndf 69.05 / 89
p0 721.7 ± 261.6
pull
Entries 90
Mean −1357
Std Dev 0

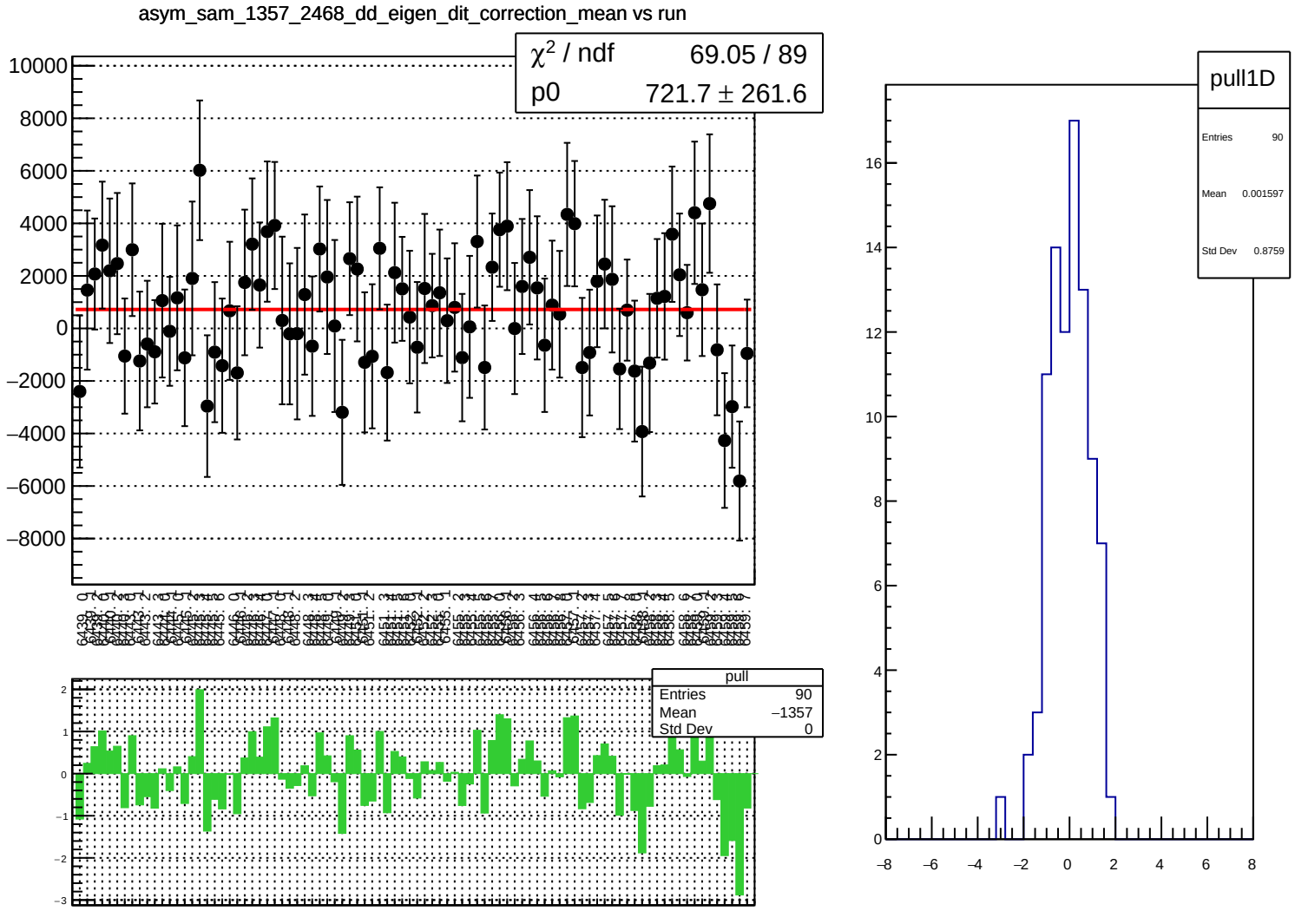

pull1D
Entries 90
Mean 0.001597
Std Dev 0.8759

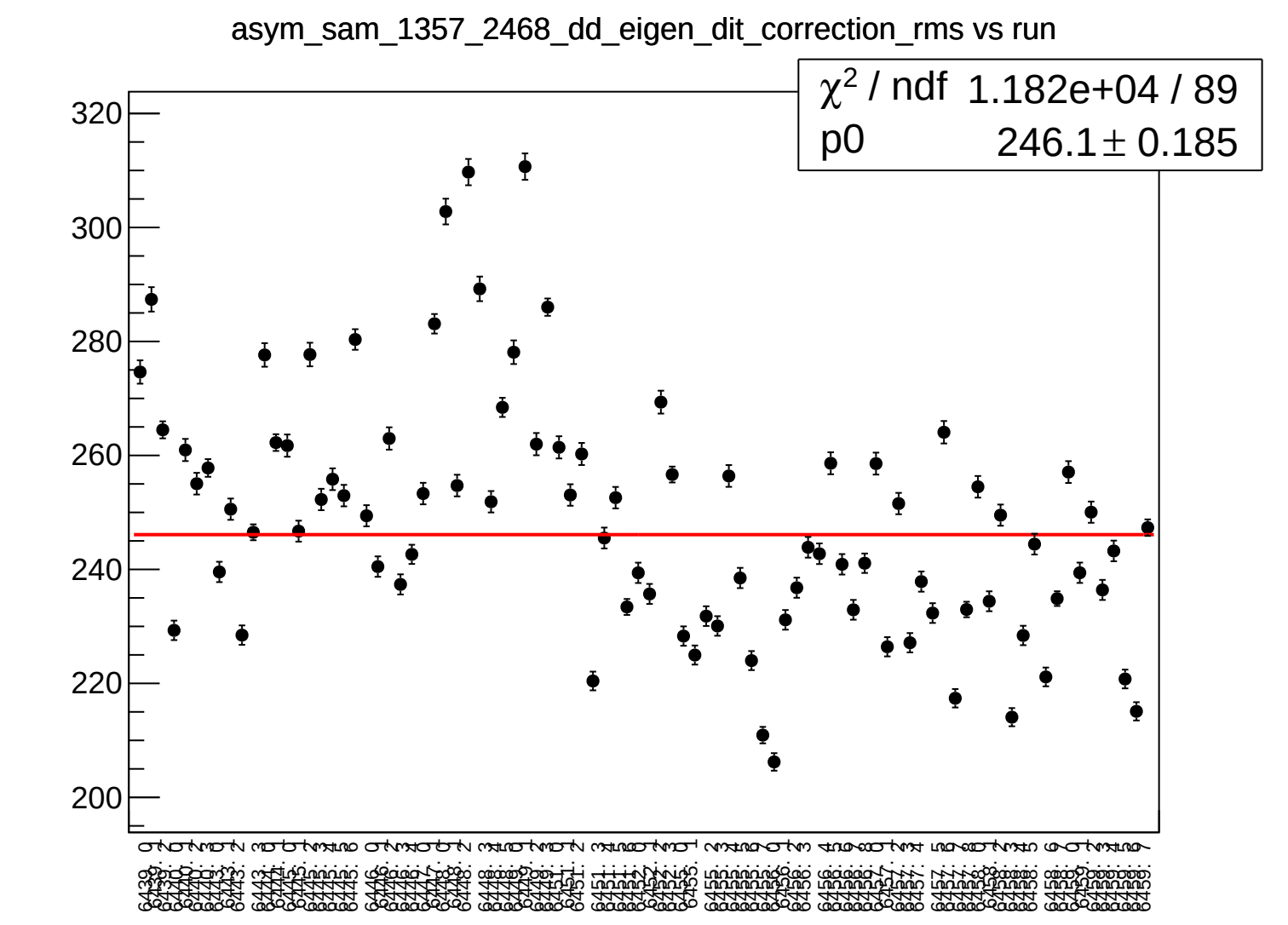

asym_sam_1357_2468_dd_dit_correction_rms vs run
χ² / ndf 1.182e+04 / 89
p0 246.1 ± 0.185
320
300
280
260
240
220
200

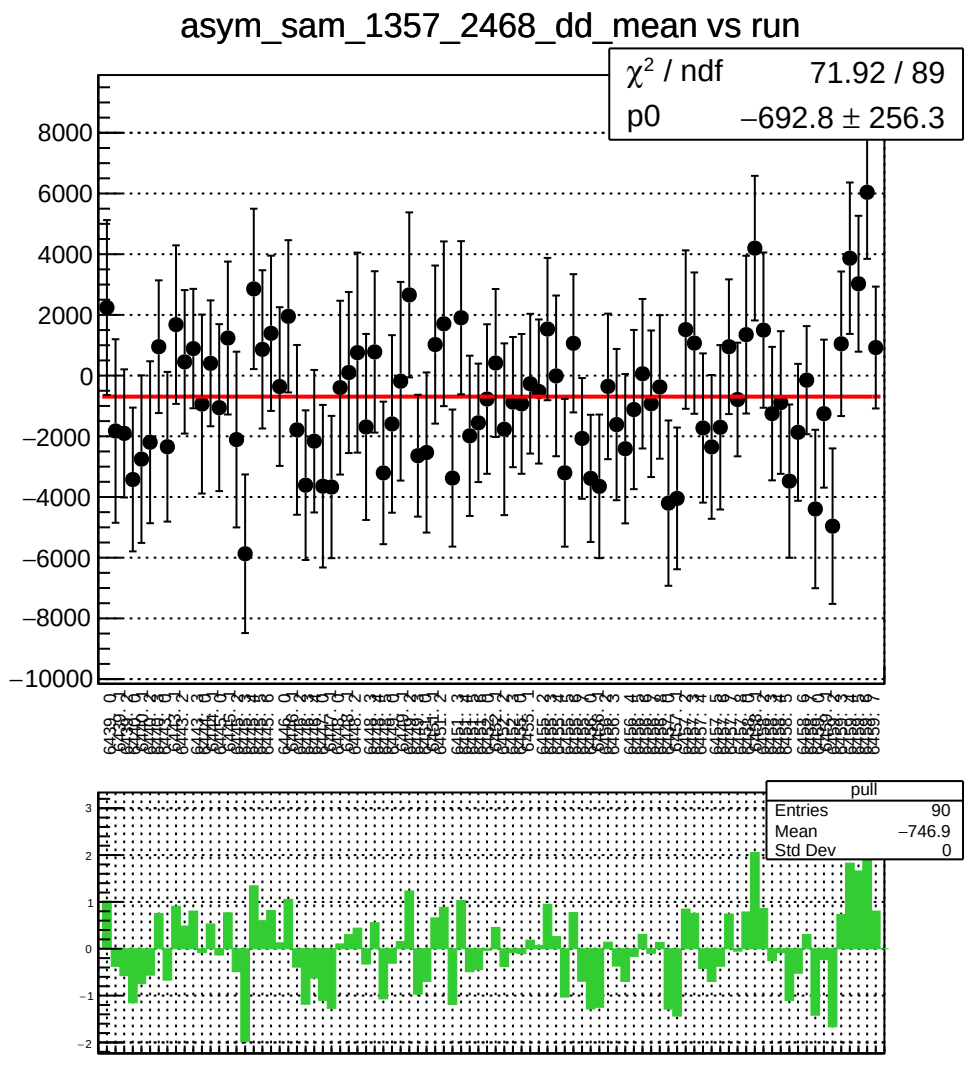

eigen_dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 92.54 / 89
p0 25.83 ± 29.06
1000
500
0
−500
−1000
pull
Entries 90
Mean −160.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

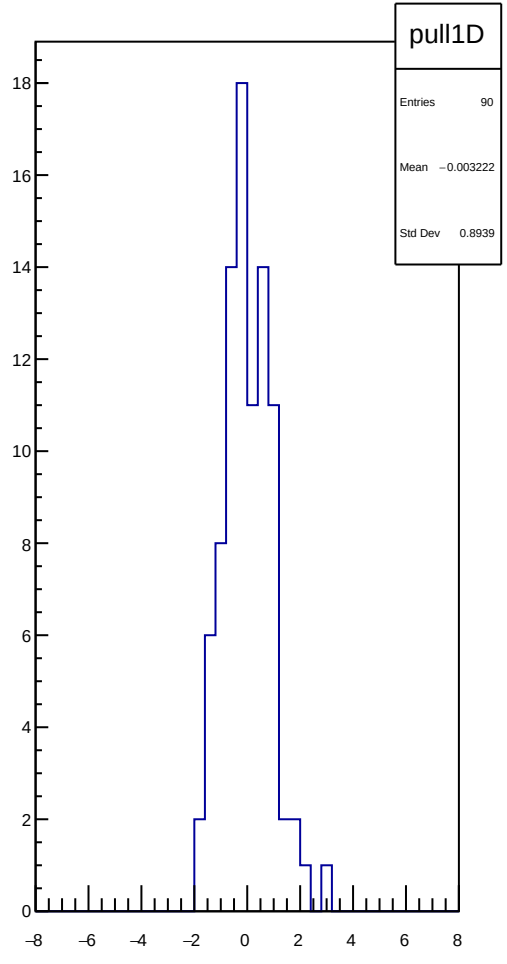

pull1D
Entries 90
Mean −0.009008
Std Dev 1.014
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2.945e+04 / 89
p0 27.2 ± 0.02055
70
60
50
40
30

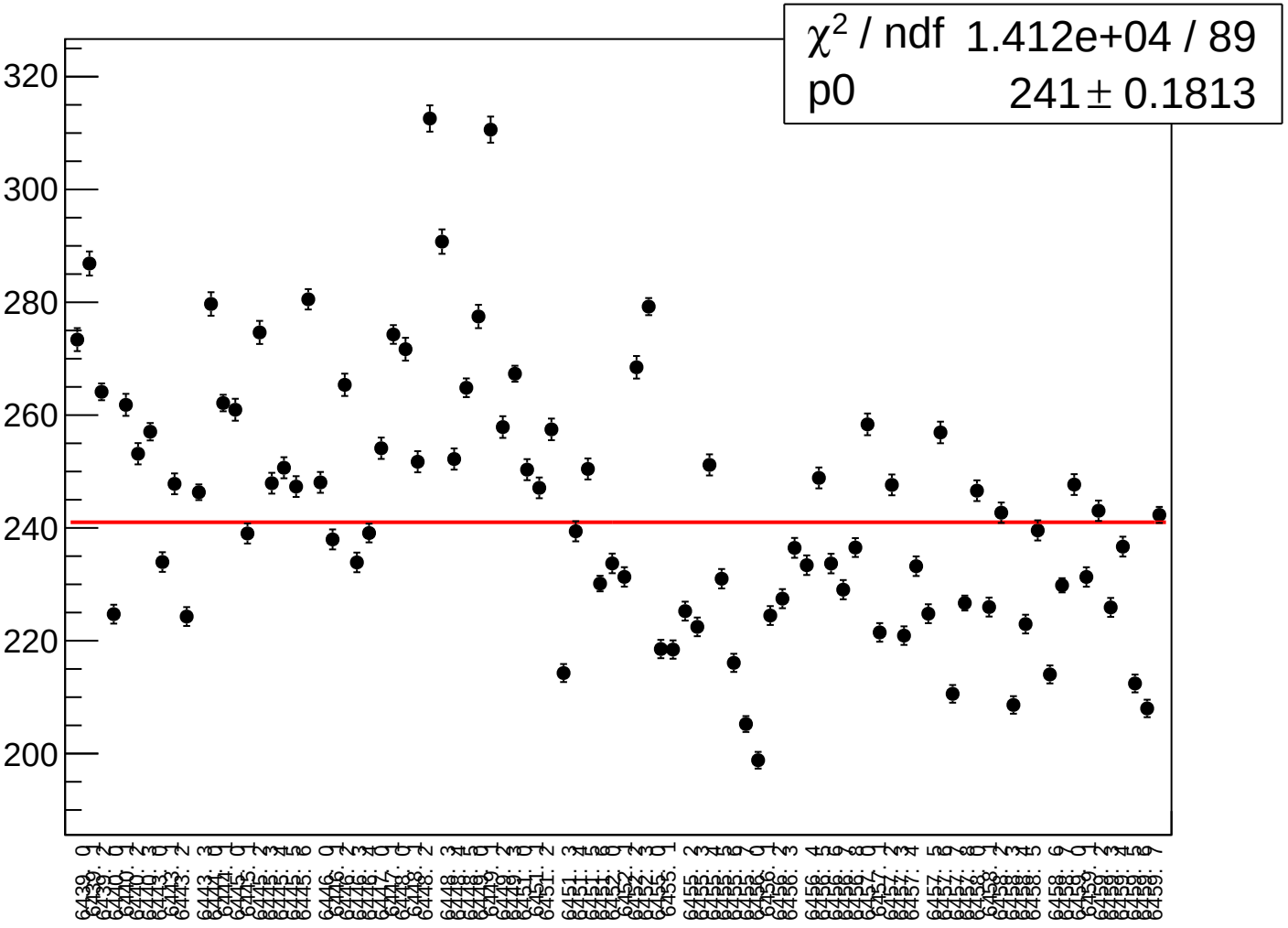

asym_sam_1357_2468_dd_eigen_dit_correction_mean vs run
χ² / ndf 69.05 / 89
p0 721.7 ± 261.6
pull
Entries 90
Mean −1357
Std Dev 0
pull1D
Entries 90
Mean 0.001597
Std Dev 0.8759

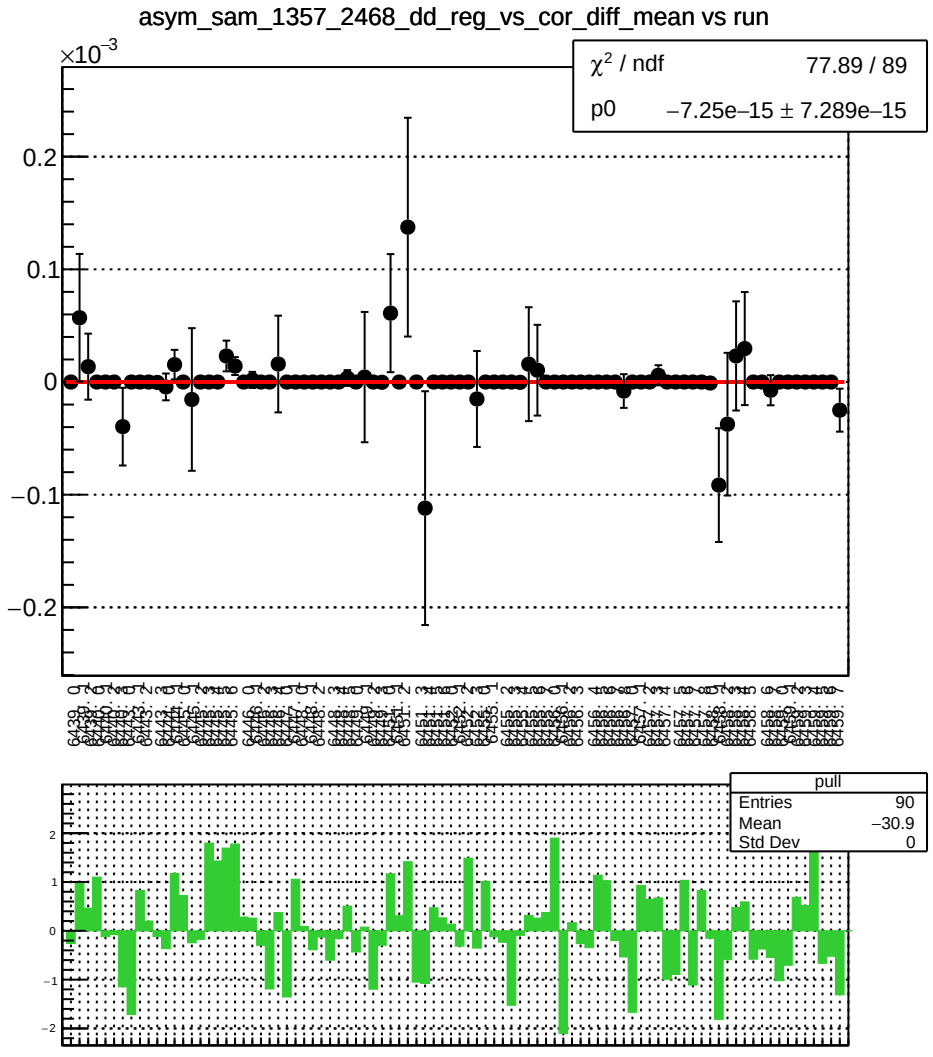

asym_sam_1357_2468_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.182e+04 / 89
p0 246.1 ± 0.185
320
300
280
260
240
220
200

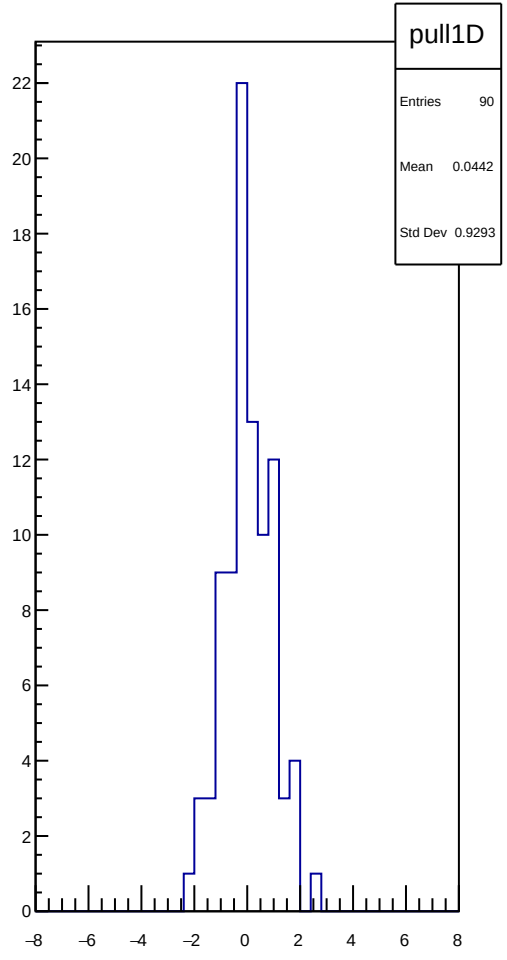

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 71.92 / 89
p0 −692.8 ± 256.3
pull
Entries 90
Mean −746.9
Std Dev 0

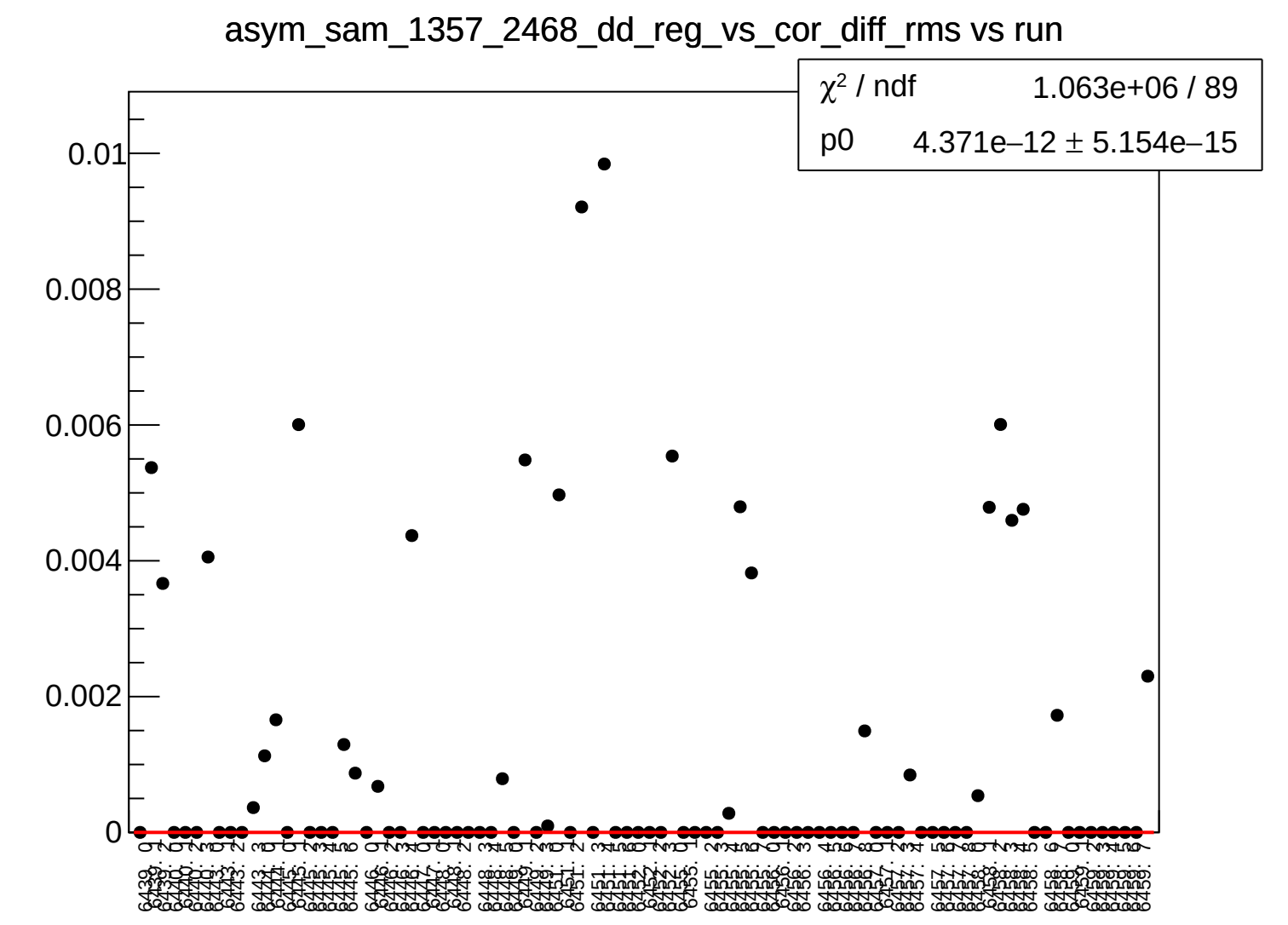

pull1D
Entries 90
Mean −0.003222
Std Dev 0.8939

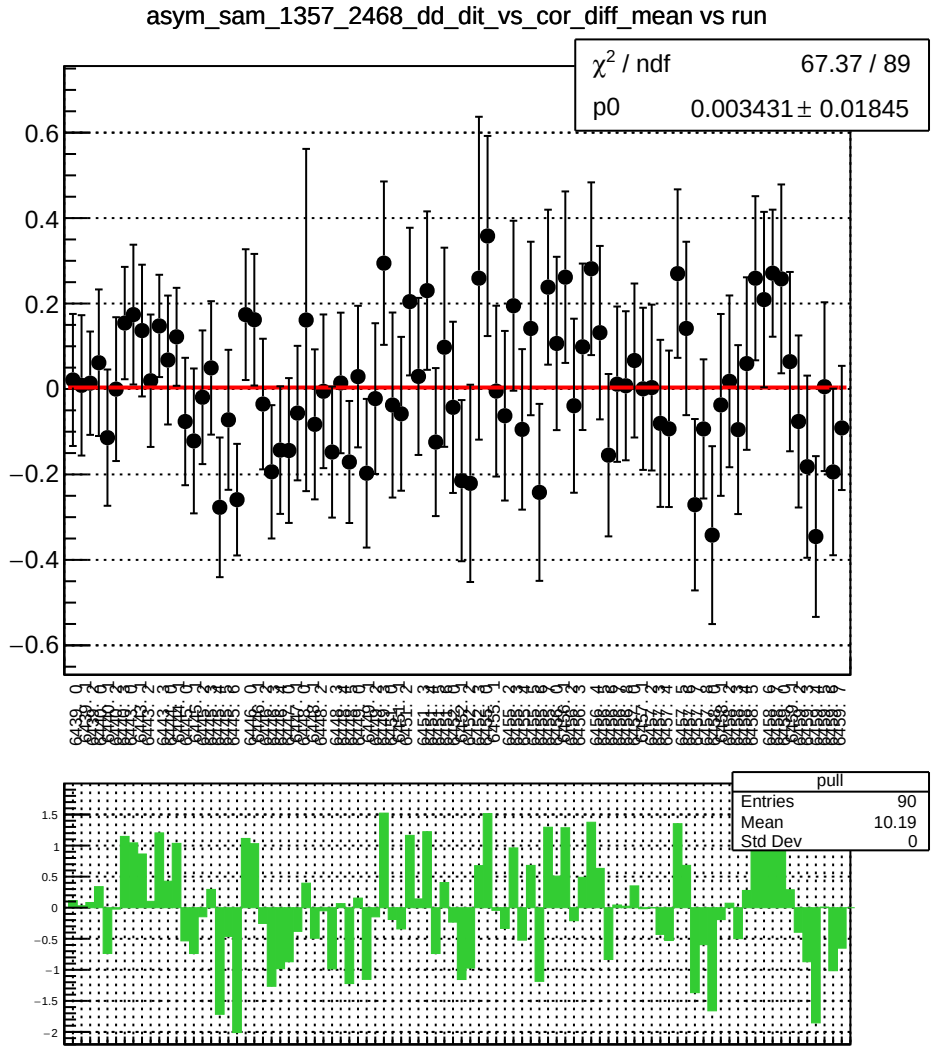
asym_sam_1357_2468_dd_rms vs run

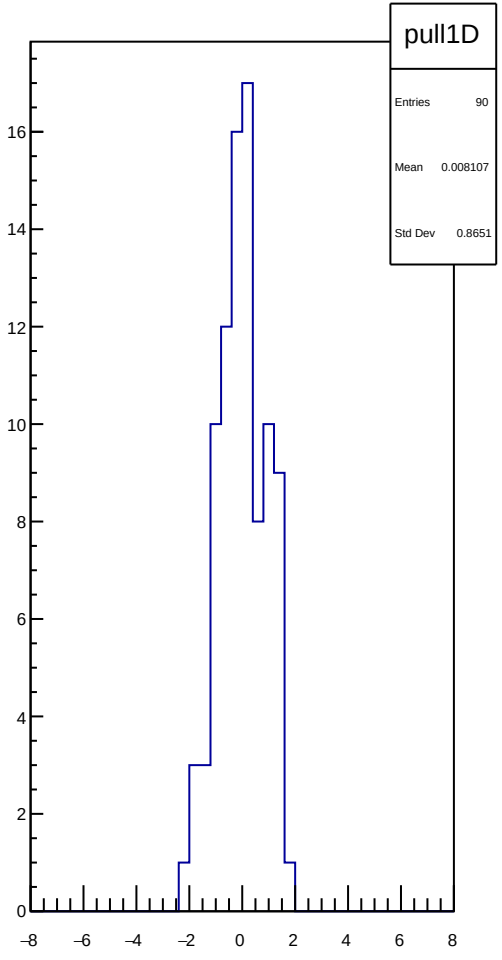


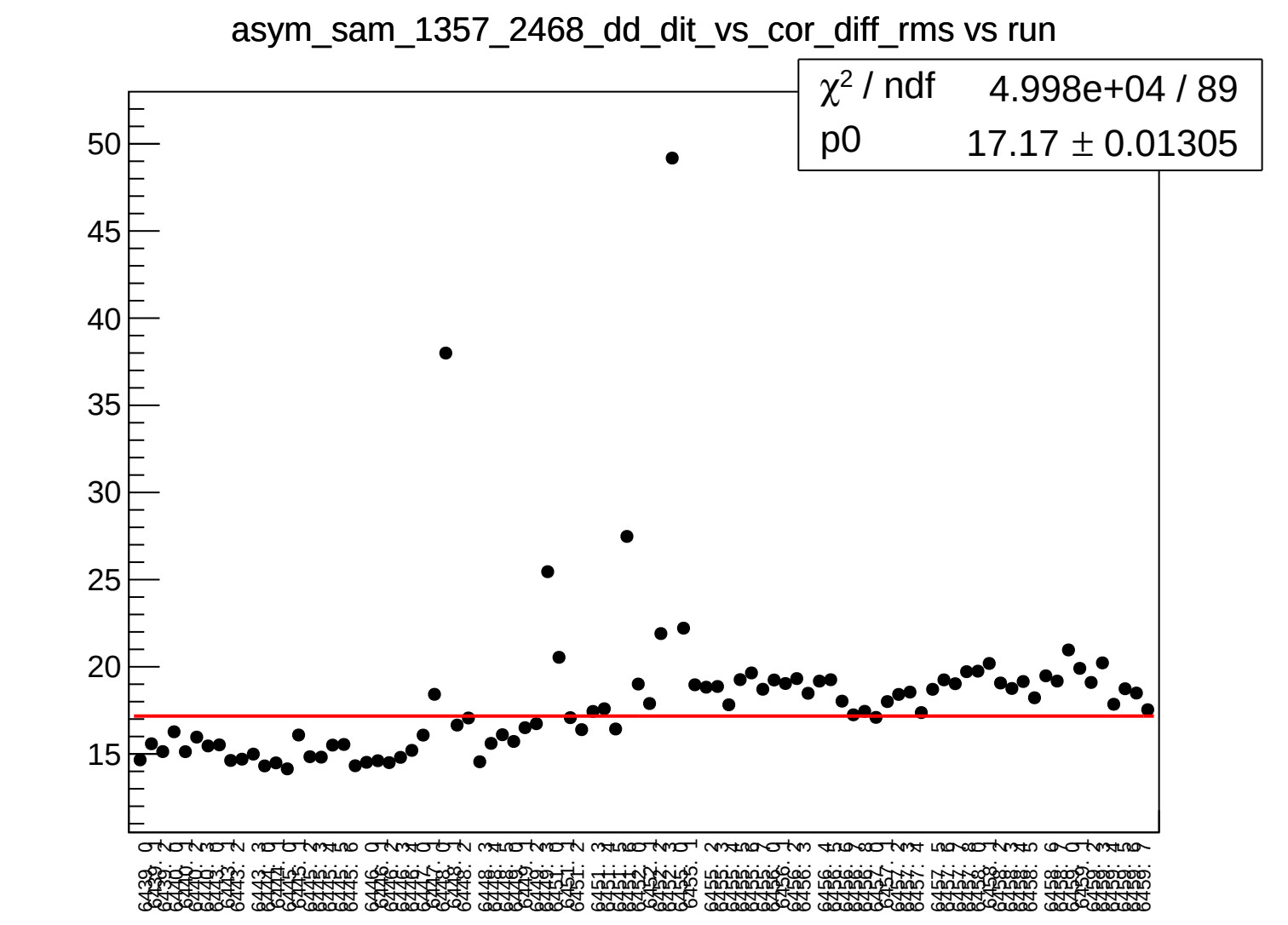

asym_sam_1357_2468_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 77.89 / 89
p0 −7.25e−15 ± 7.289e−15
0.2
0.1
0
−0.1
−0.2
pull
Entries 90
Mean −30.9
Std Dev 0
2
1
0
−1
−2

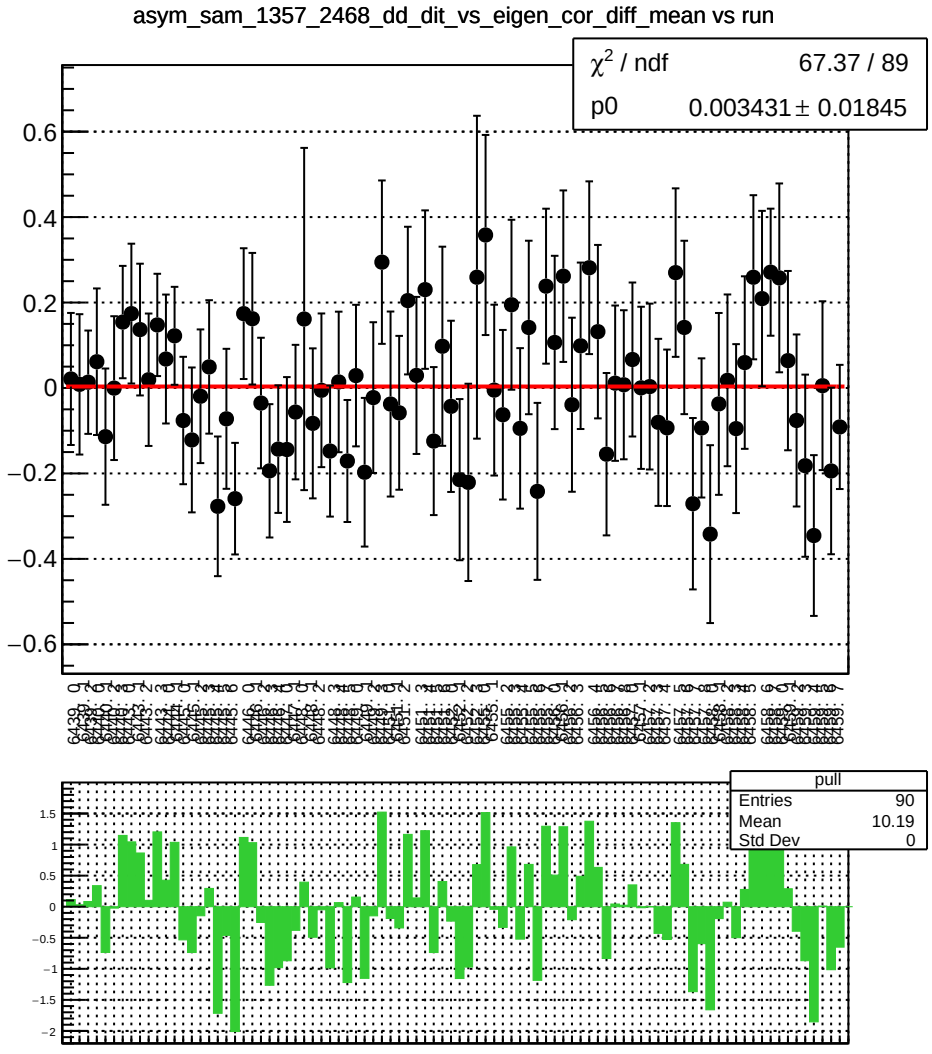

pull1D
Entries 90
Mean 0.0442
Std Dev 0.9293
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

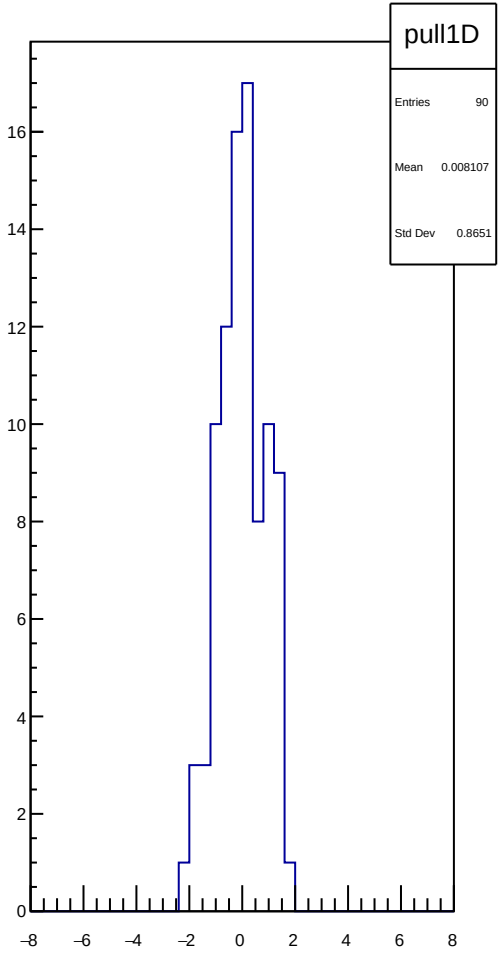

asym_sam_1357_2468_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.063e+06 / 89
p0 4.371e−12 ± 5.154e−15
0.01
0.008
0.006
0.004
0.002
0

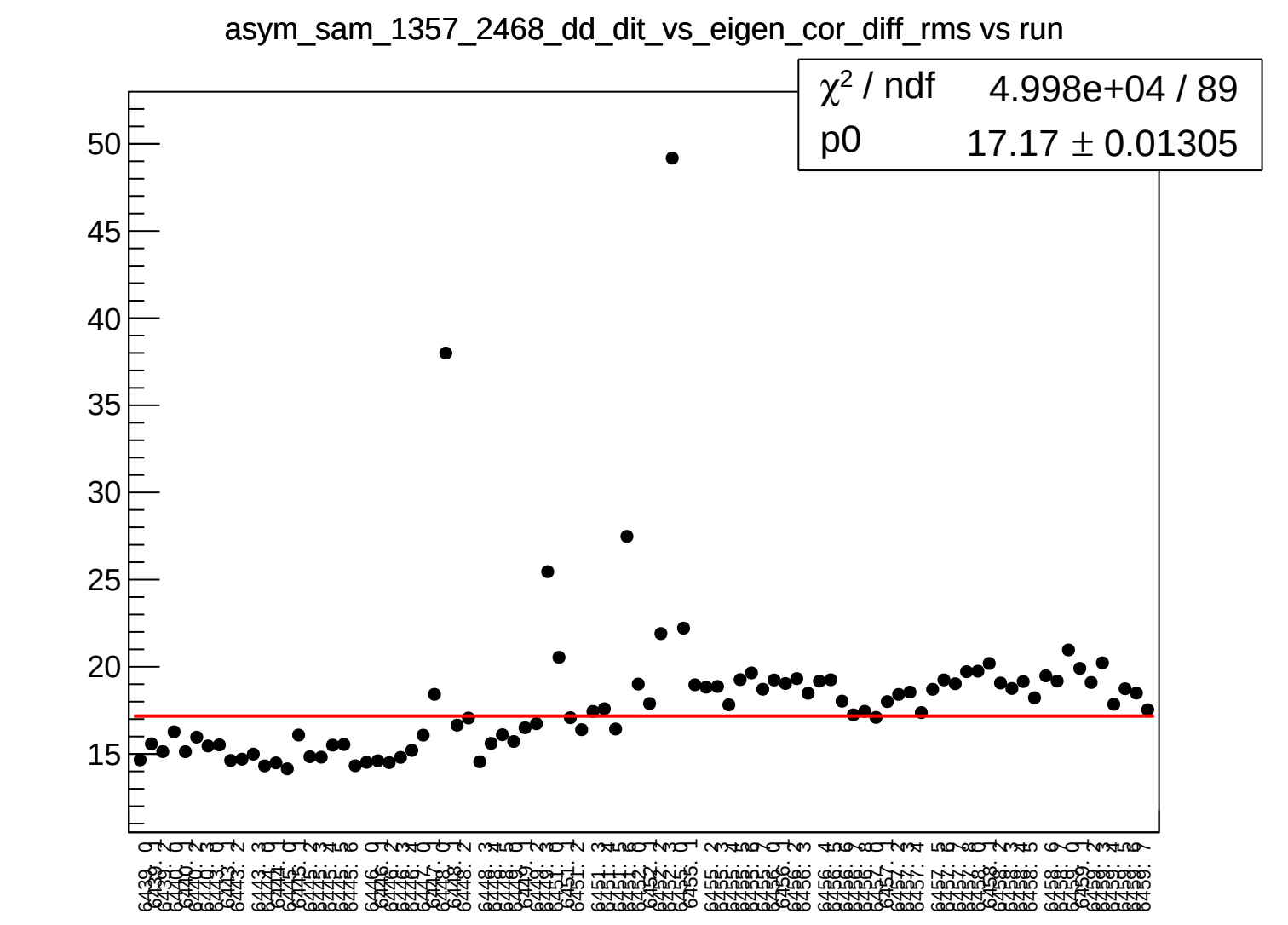

asym_sam_1357_2468_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 67.37 / 89
p0 0.003431 ± 0.01845
pull
Entries 90
Mean 10.19
Std Dev 0

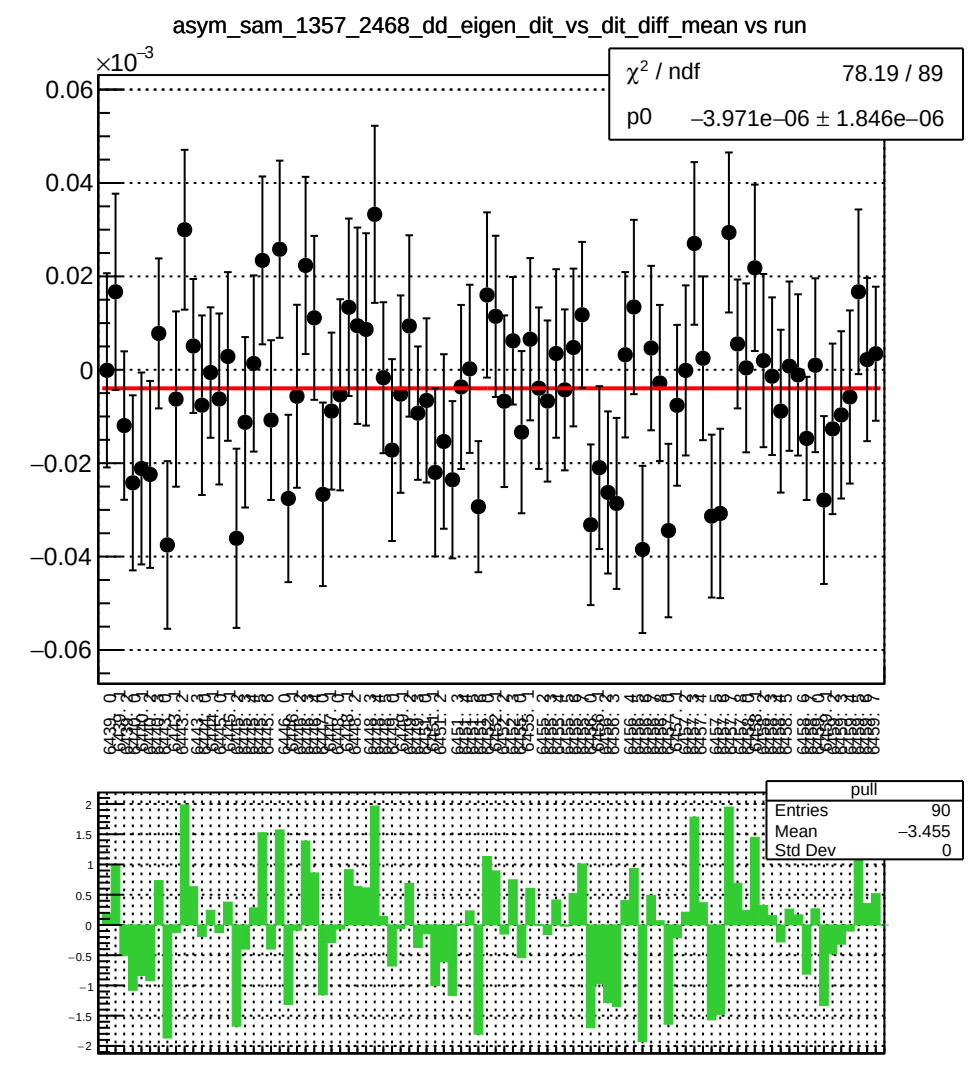

pull1D
Entries 90
Mean 0.008107
Std Dev 0.8651

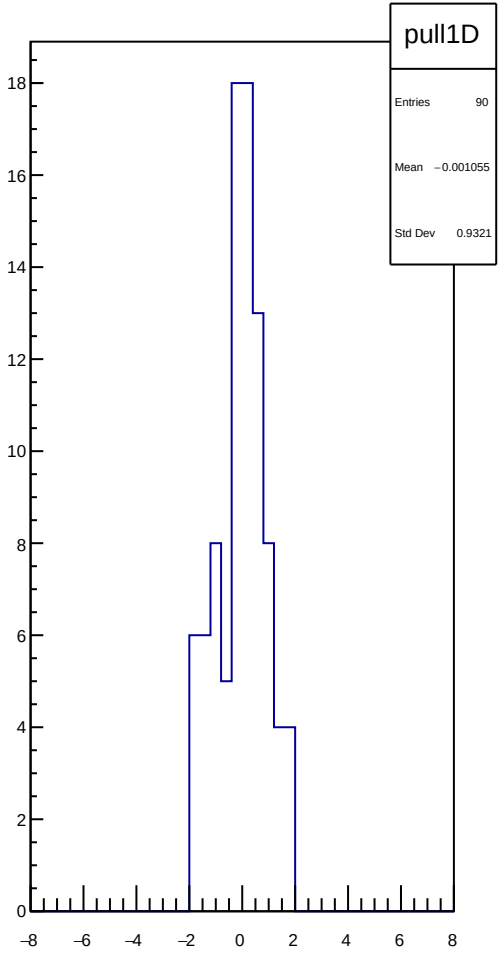

asym_sam_1357_2468_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.998e+04 / 89
p0 17.17 ± 0.01305
50
45
40
35
30
25
20
15

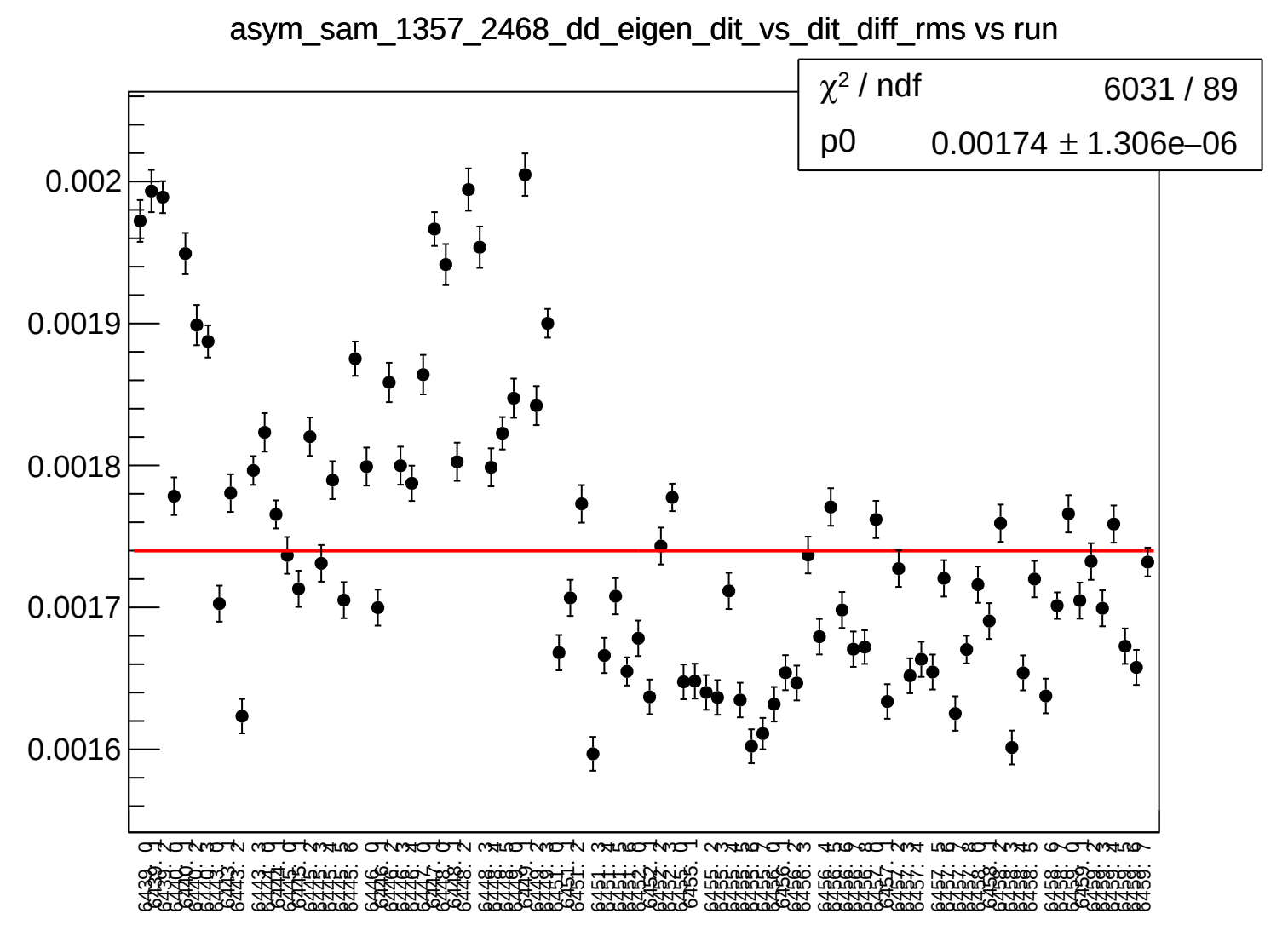

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.37 / 89
p0 0.003431 ± 0.01845
pull
Entries 90
Mean 10.19
Std Dev 0

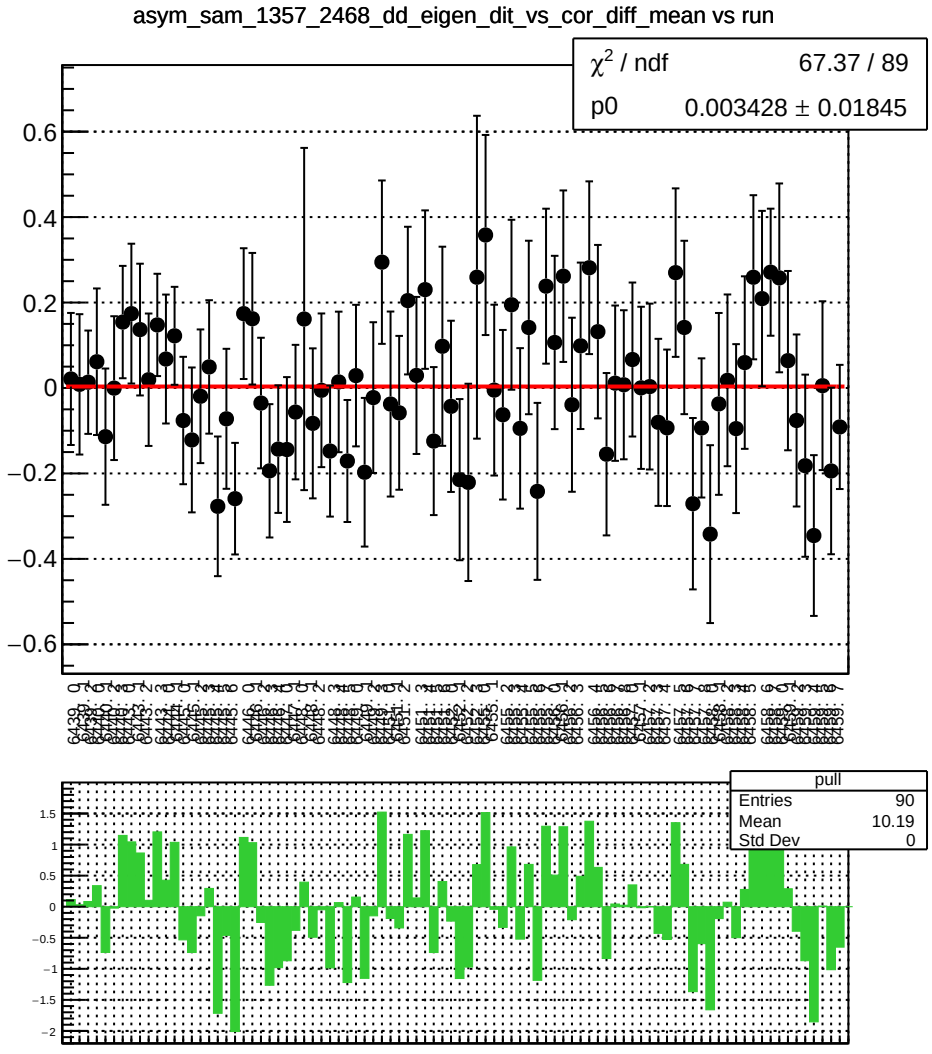

pull1D
Entries 90
Mean 0.008107
Std Dev 0.8651

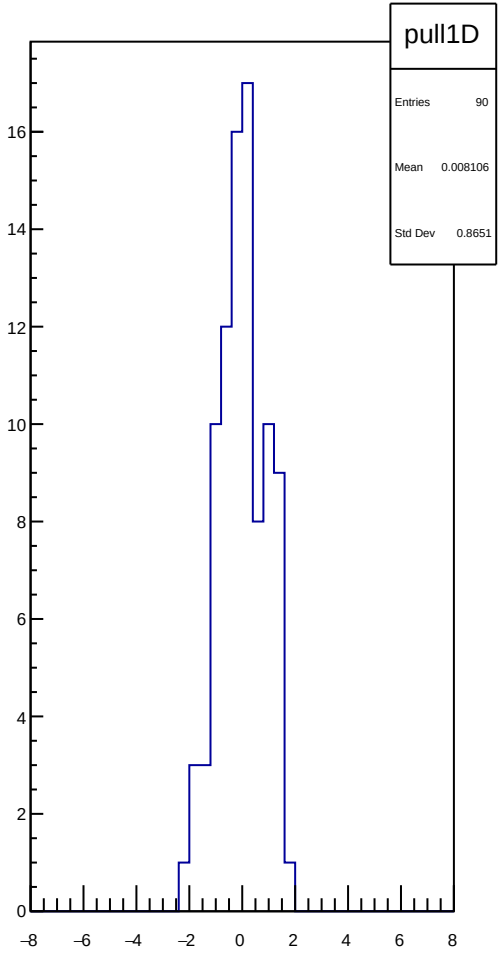

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.998e+04 / 89
p0 17.17 ± 0.01305
50
45
40
35
30
25
20
15

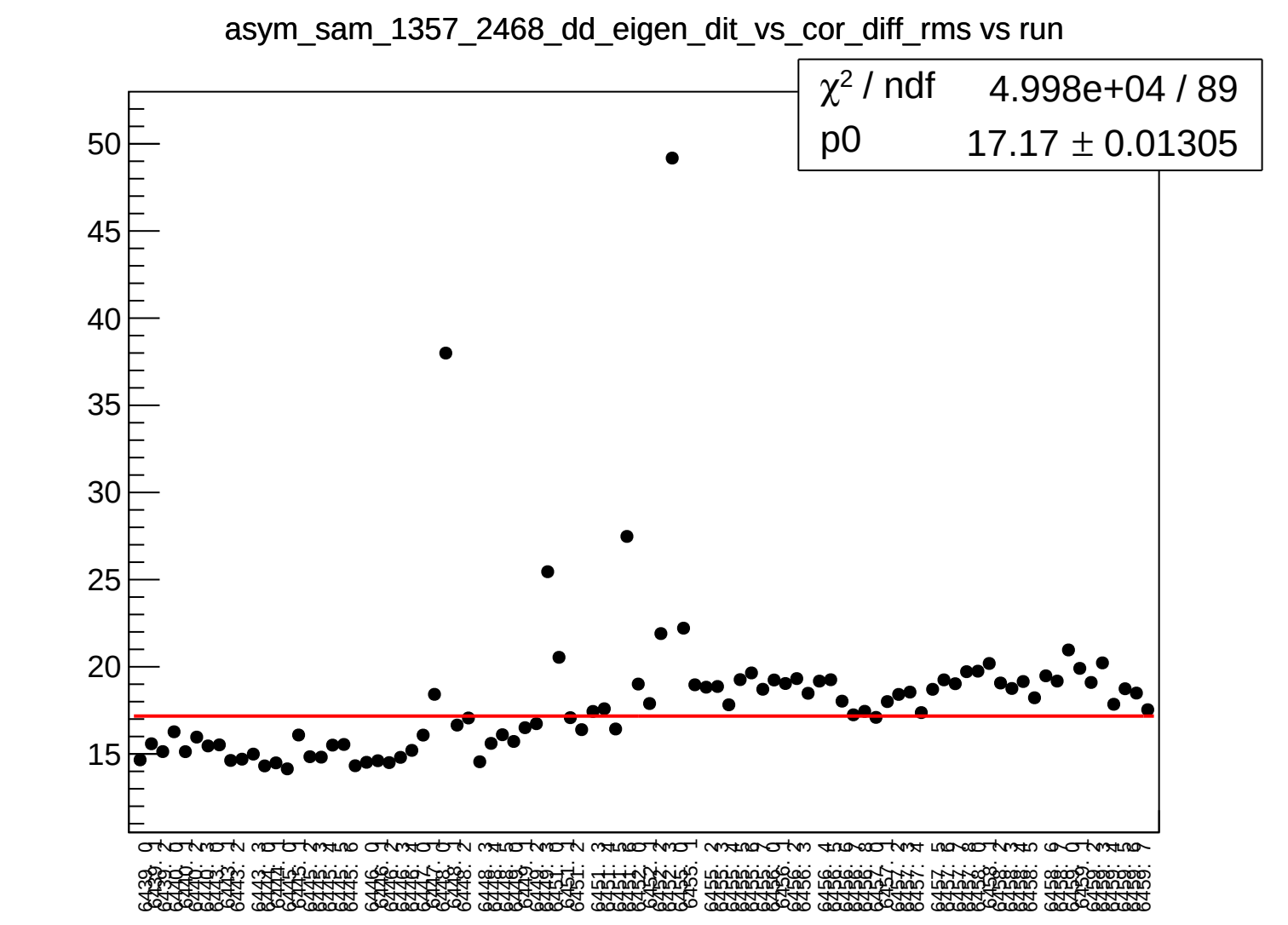

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 78.19 / 89
p0 −3.971e−06 ± 1.846e−06
pull
Entries 90
Mean −3.455
Std Dev 0

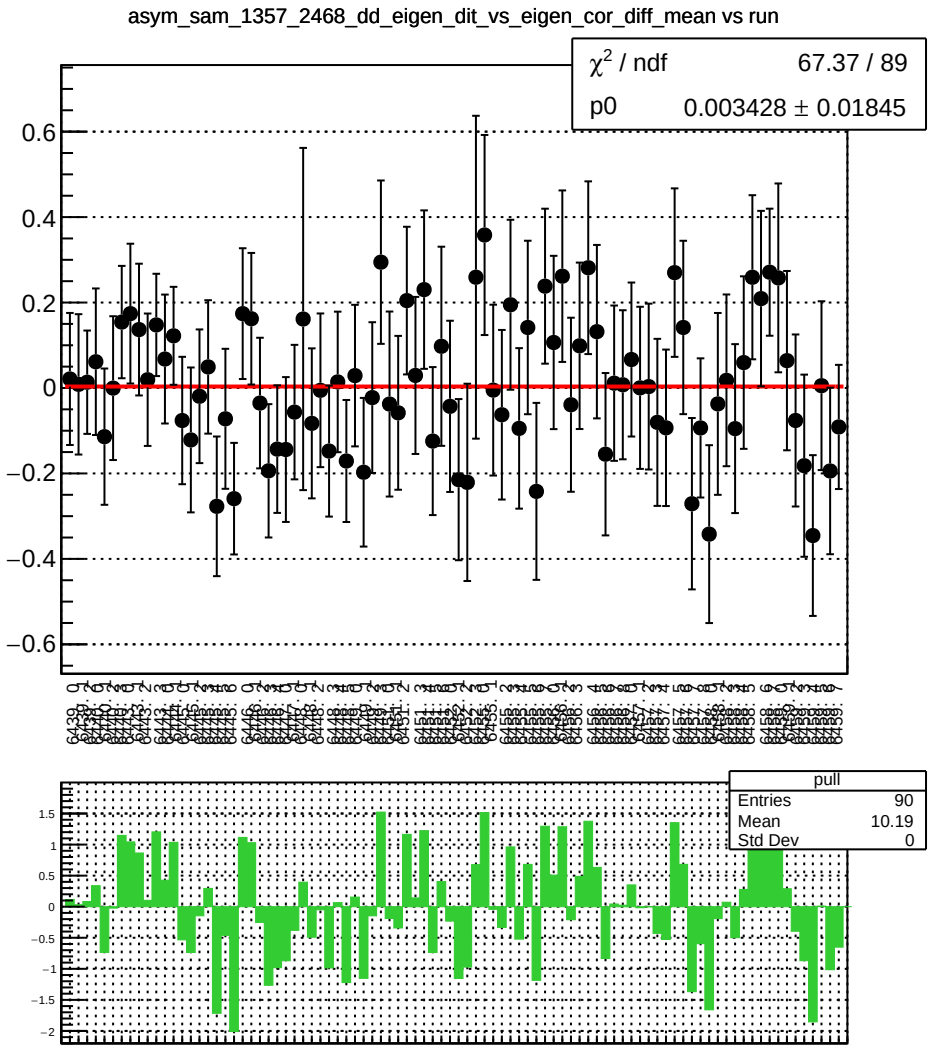

pull1D
Entries 90
Mean −0.001055
Std Dev 0.9321

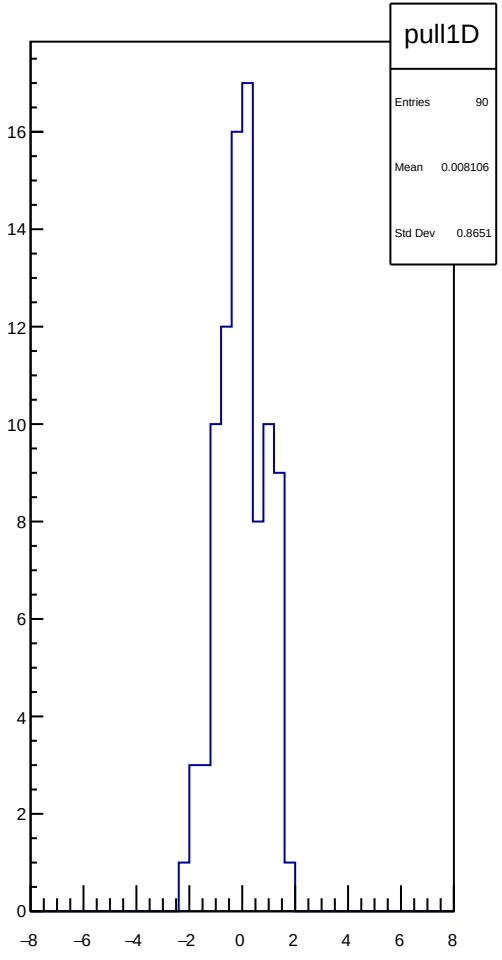

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6031 / 89
p0 0.00174 ± 1.306e−06
0.002
0.0019
0.0018
0.0017
0.0016

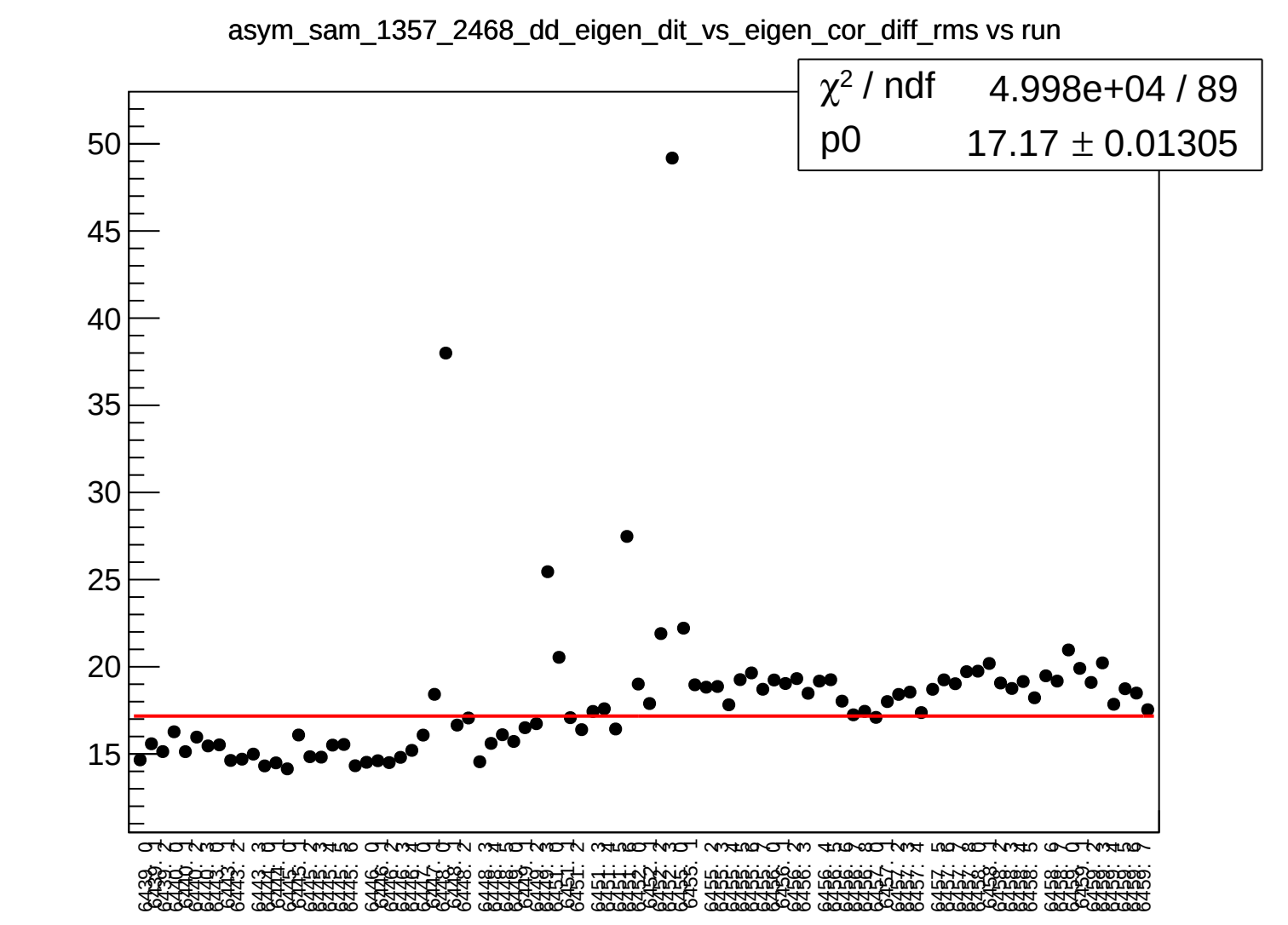

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 67.37 / 89
p0 0.003428 ± 0.01845
pull
Entries 90
Mean 10.19
Std Dev 0

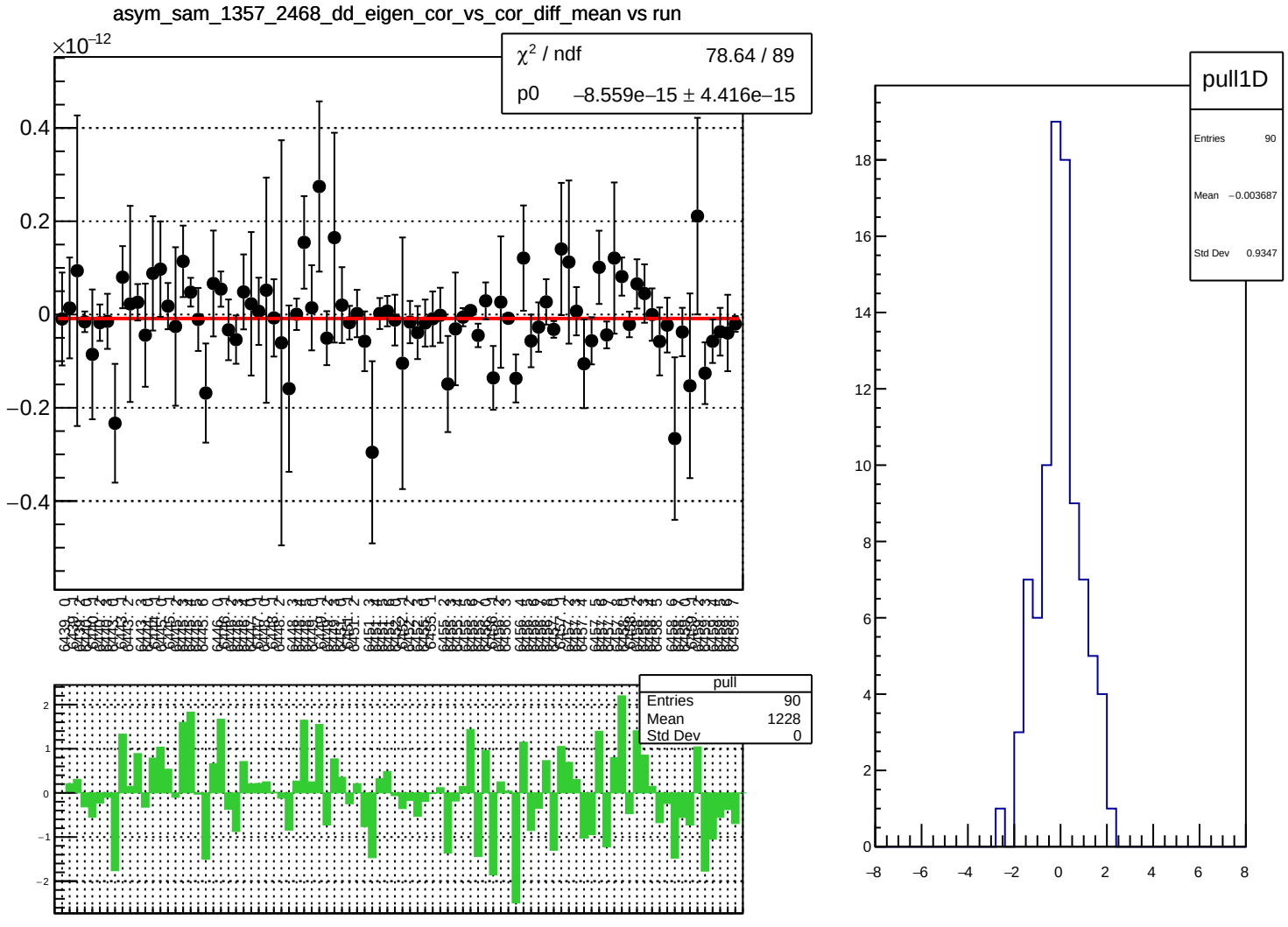

pull1D
Entries 90
Mean 0.008106
Std Dev 0.8651

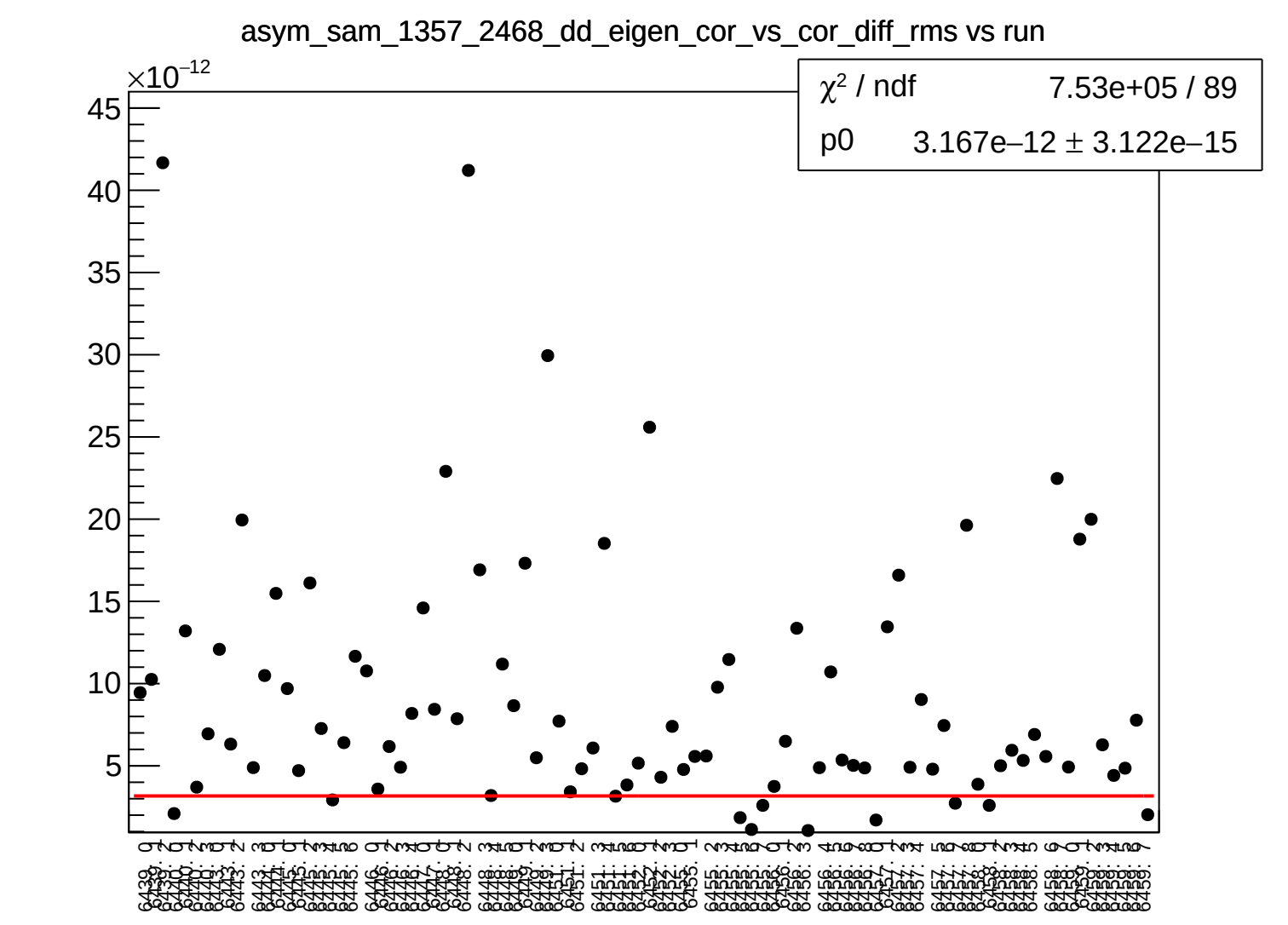

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.998e+04 / 89
p0 17.17 ± 0.01305
50
45
40
35
30
25
20
15

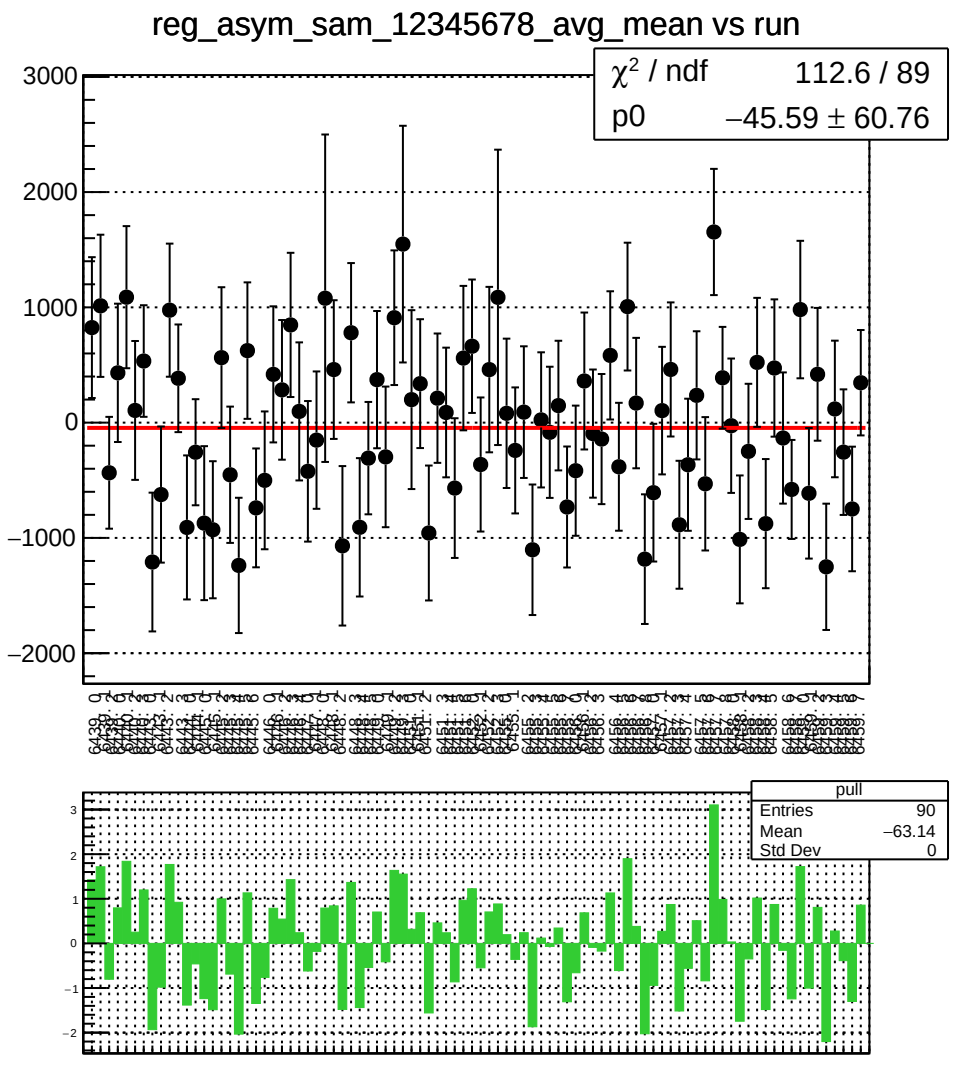

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.37 / 89
p0 0.003428 ± 0.01845
pull
Entries 90
Mean 10.19
Std Dev 0

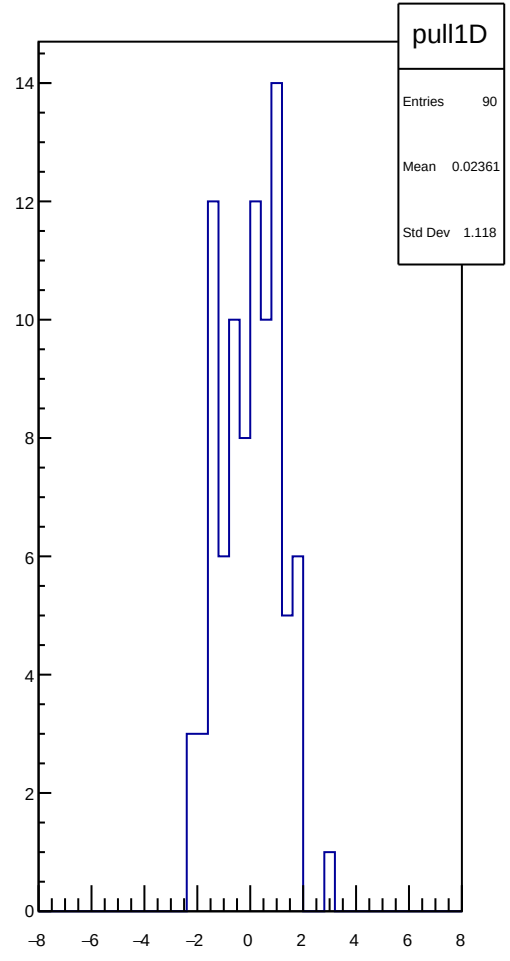

pull1D
Entries 90
Mean 0.008106
Std Dev 0.8651

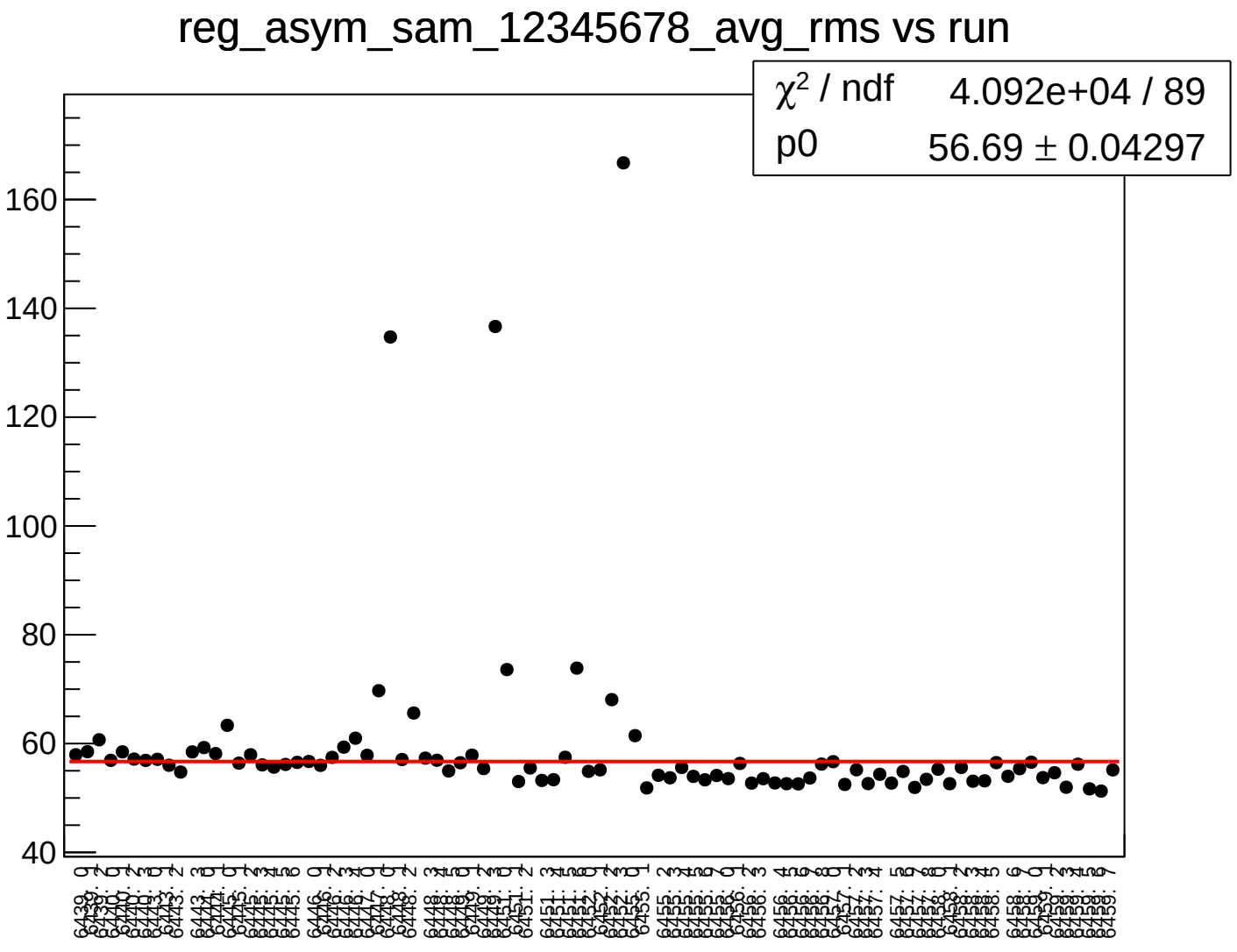

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.998e+04 / 89
p0 17.17 ± 0.01305
50
45
40
35
30
25
20
15

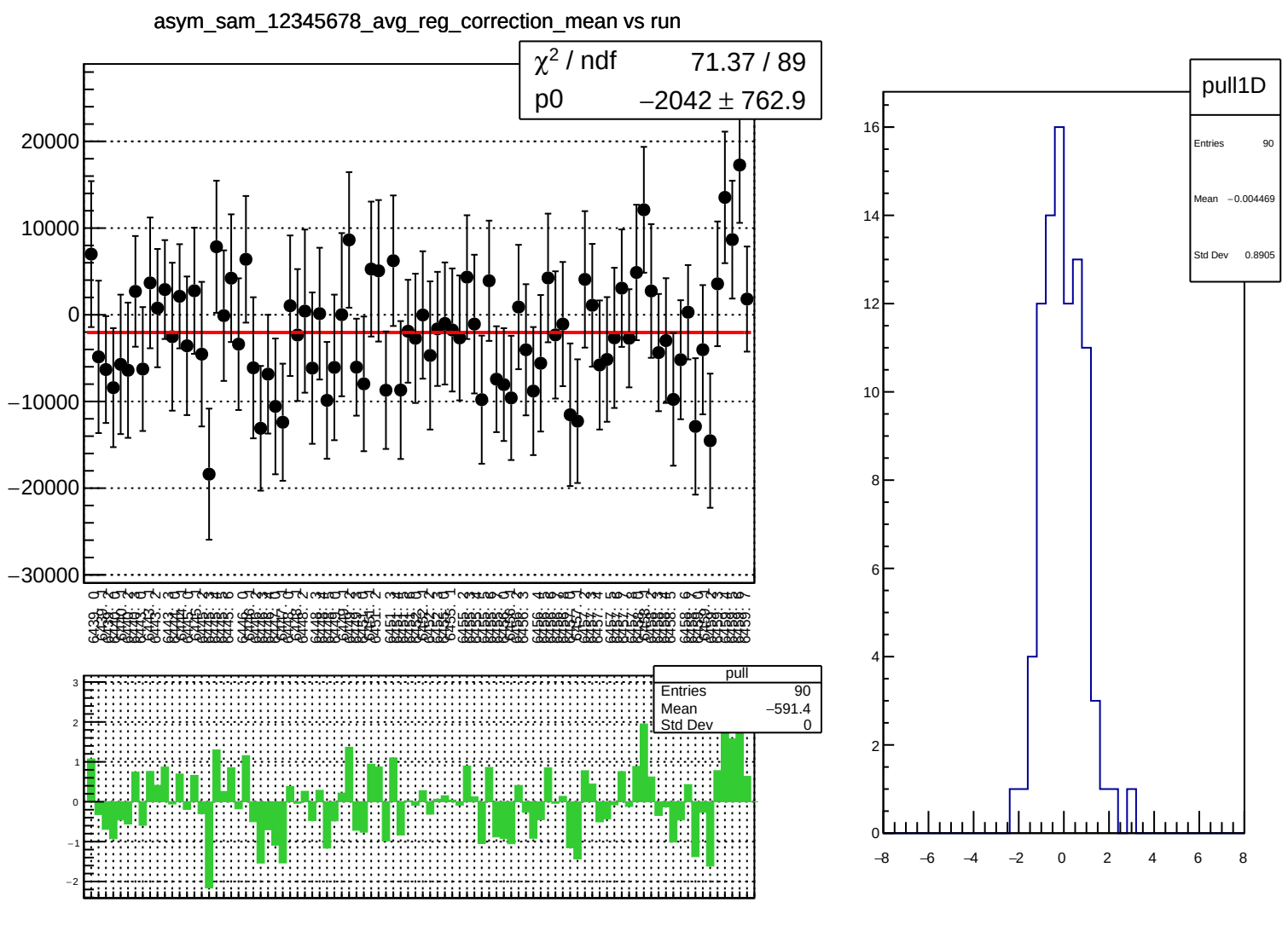

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.64 / 89
p0 −8.559e−15 ± 4.416e−15
0.4
0.2
0
−0.2
−0.4
pull
Entries 90
Mean 1228
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.003687
Std Dev 0.9347
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

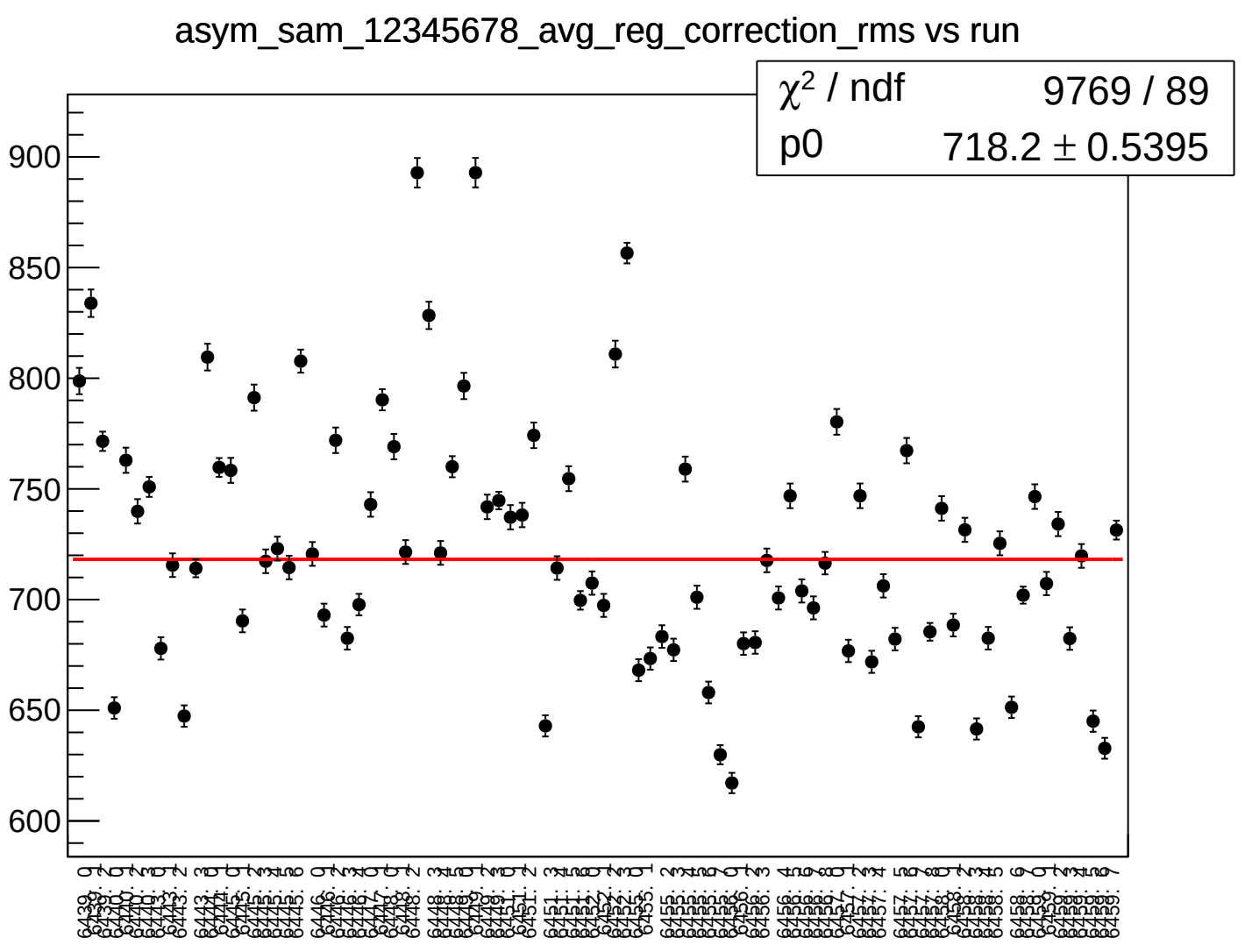

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.53e+05 / 89
p0 3.167e−12 ± 3.122e−15
45
40
35
30
25
20
15
10
5

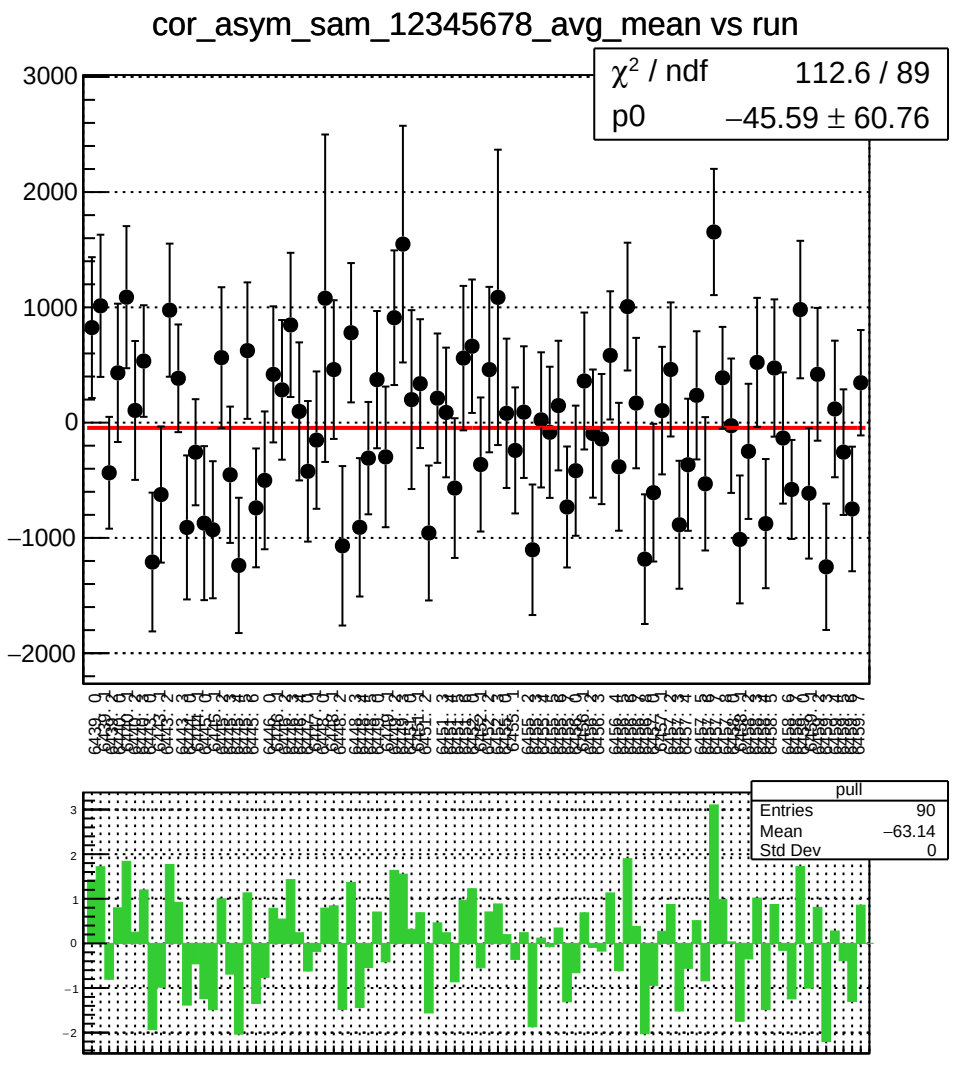

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 112.6 / 89
p0 −45.59 ± 60.76
3000
2000
1000
0
−1000
−2000
pull
Entries 90
Mean −63.14
Std Dev 0
3
2
1
0
−1
−2

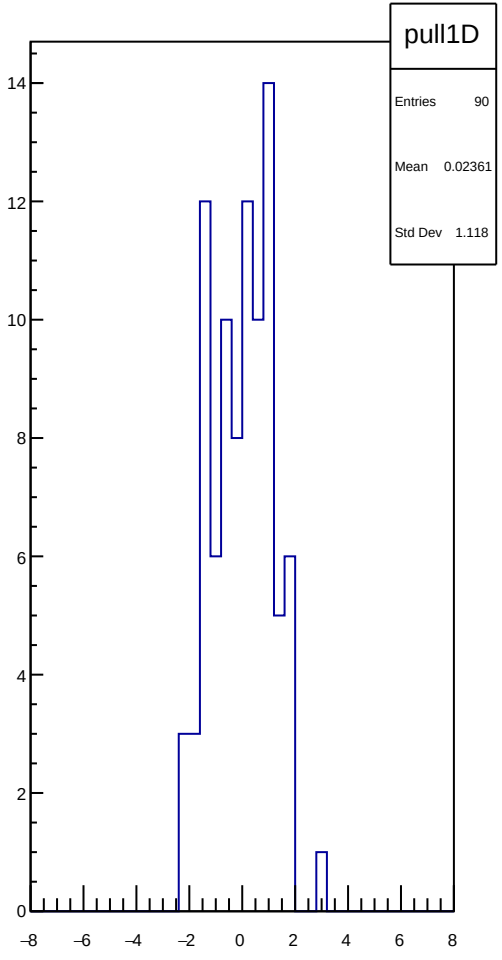

pull1D
Entries 90
Mean 0.02361
Std Dev 1.118
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

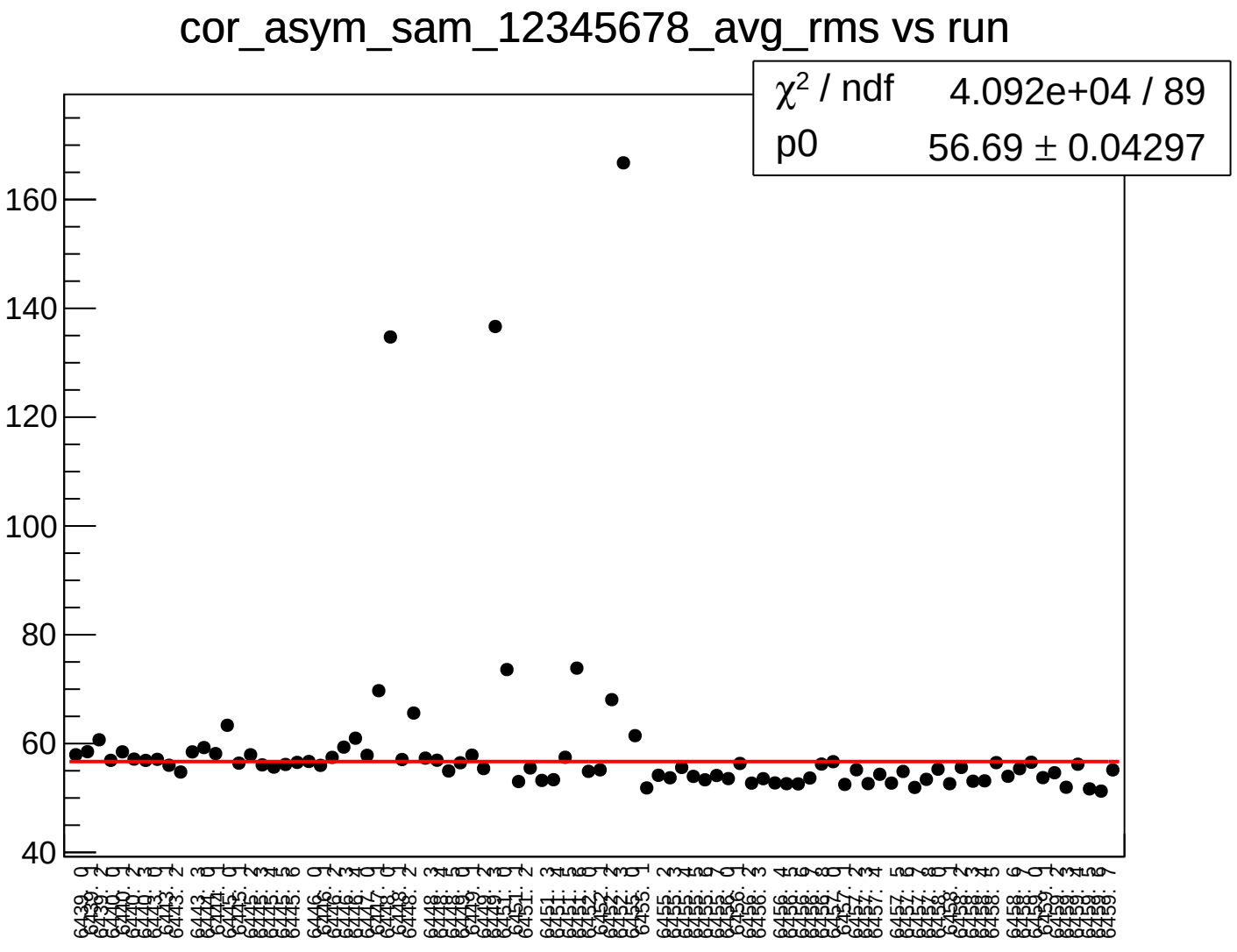

reg_asym_sam_12345678_avg_rms vs run
χ² / ndf 4.092e+04 / 89
p0 56.69 ± 0.04297
160
140
120
100
80
60
40

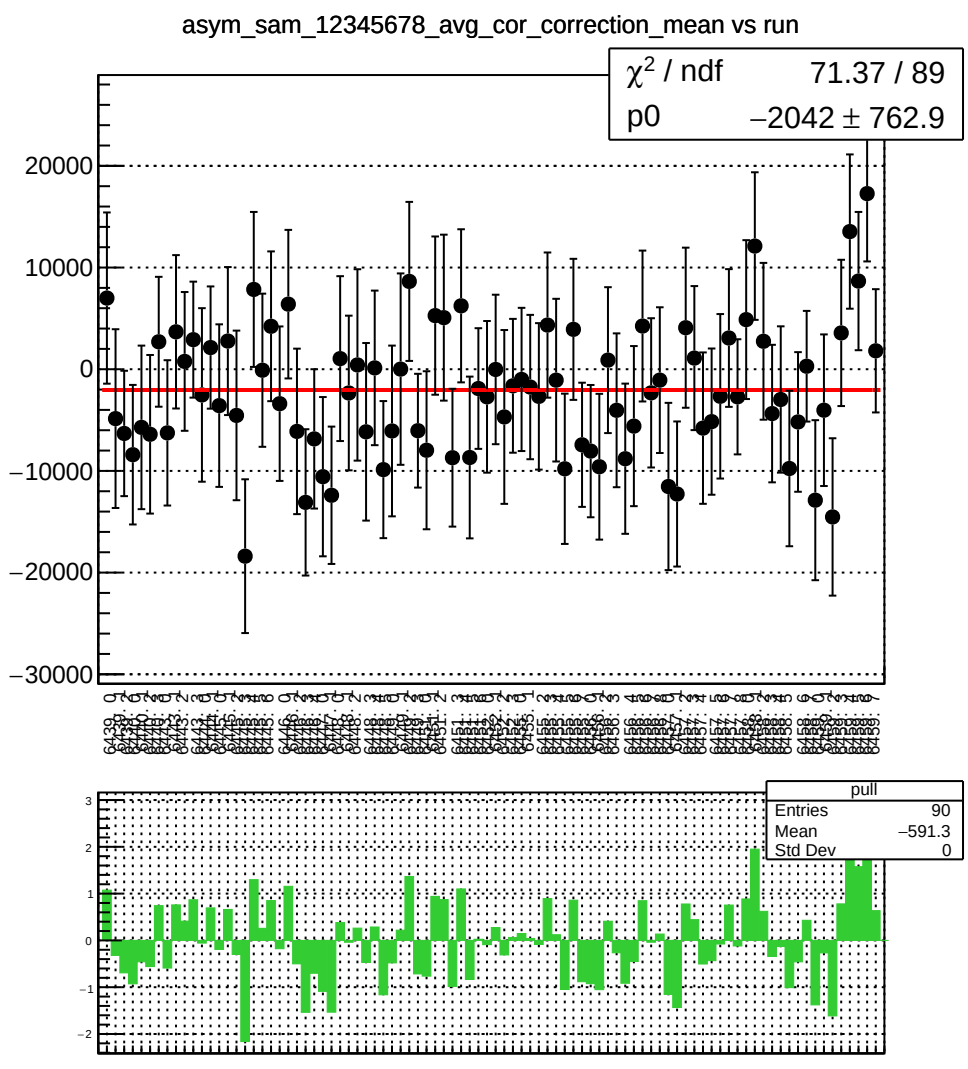

asym_sam_12345678_avg_reg_correction_mean vs run
χ² / ndf 71.37 / 89
p0 −2042 ± 762.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean −591.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.004469
Std Dev 0.8905
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

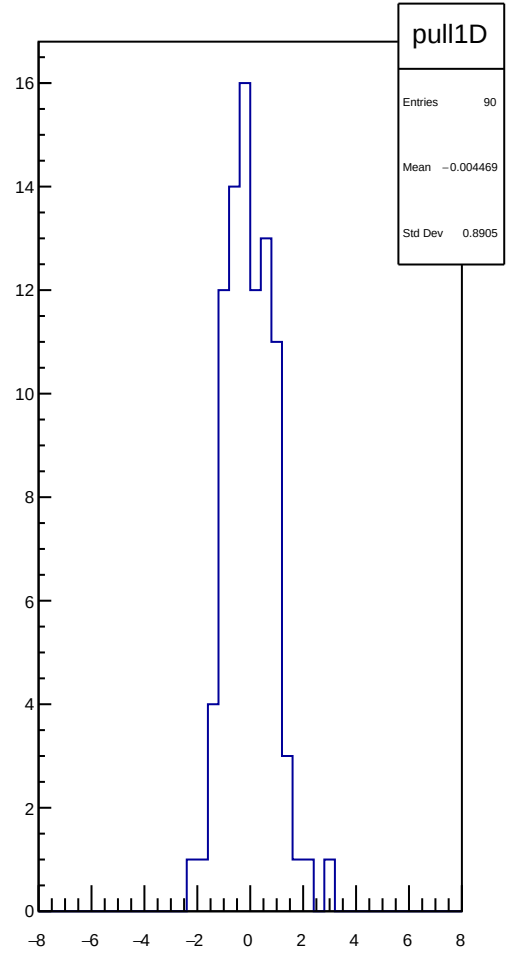

asym_sam_12345678_avg_reg_correction_rms vs run
χ² / ndf 9769 / 89
p0 718.2 ± 0.5395
900
850
800
750
700
650
600

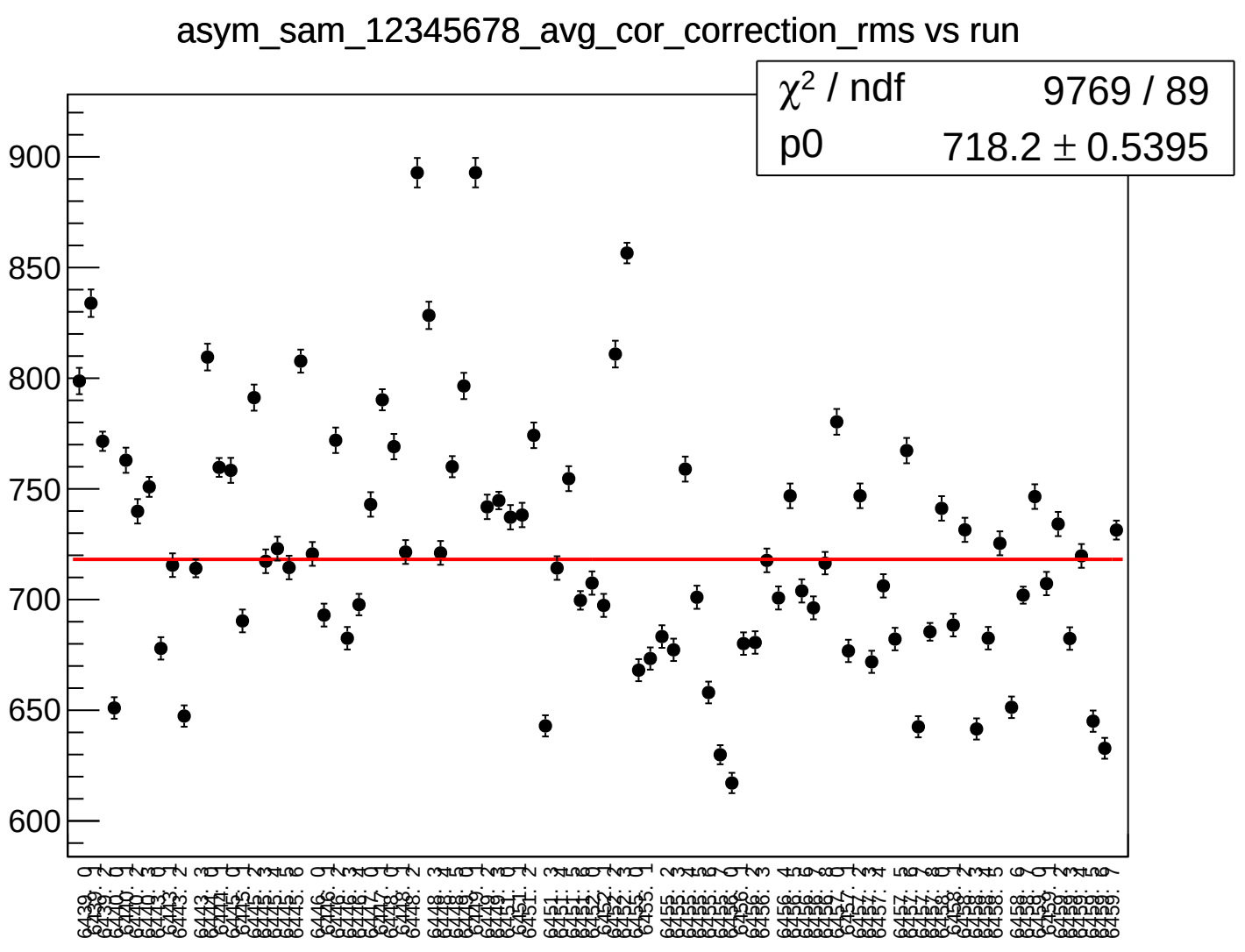

cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 112.6 / 89
p0 −45.59 ± 60.76
3000
2000
1000
0
−1000
−2000
pull
Entries 90
Mean −63.14
Std Dev 0
3
2
1
0
−1
−2

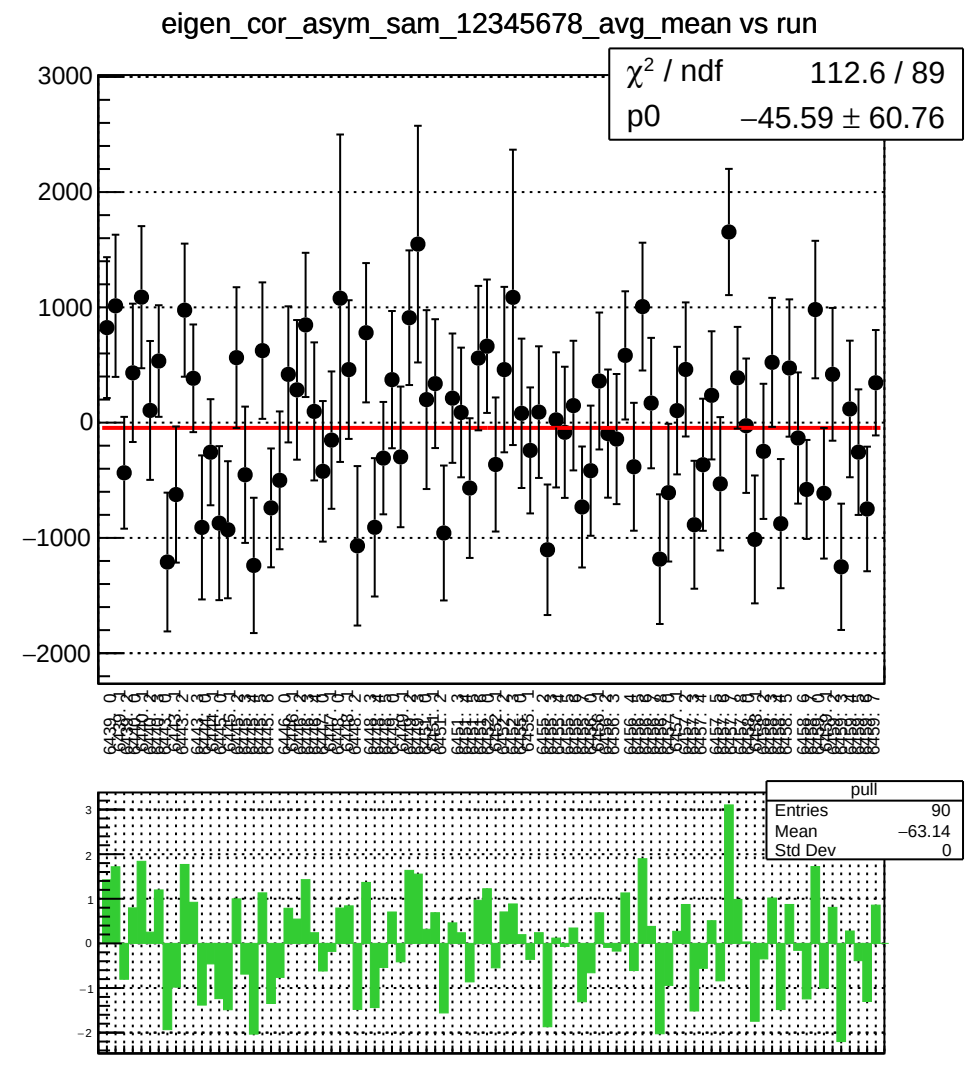

pull1D
Entries 90
Mean 0.02361
Std Dev 1.118
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

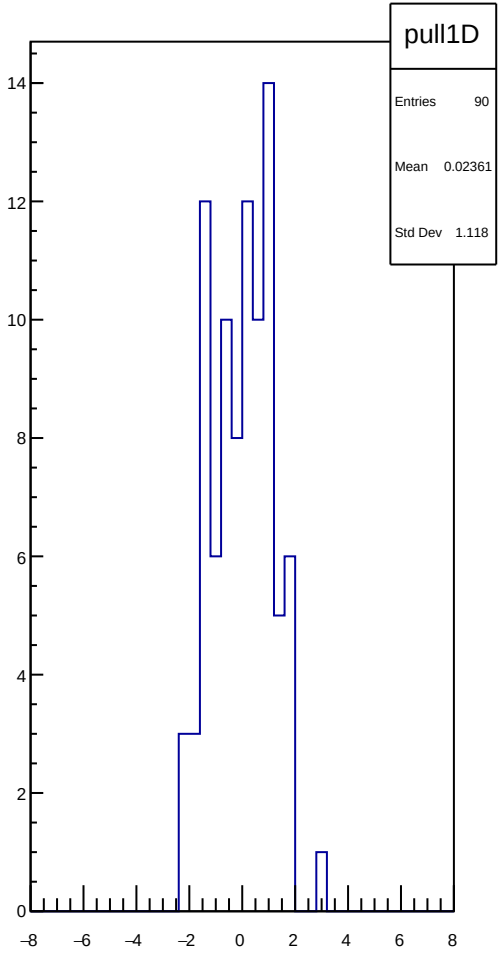

cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 4.092e+04 / 89
p0 56.69 ± 0.04297
160
140
120
100
80
60
40

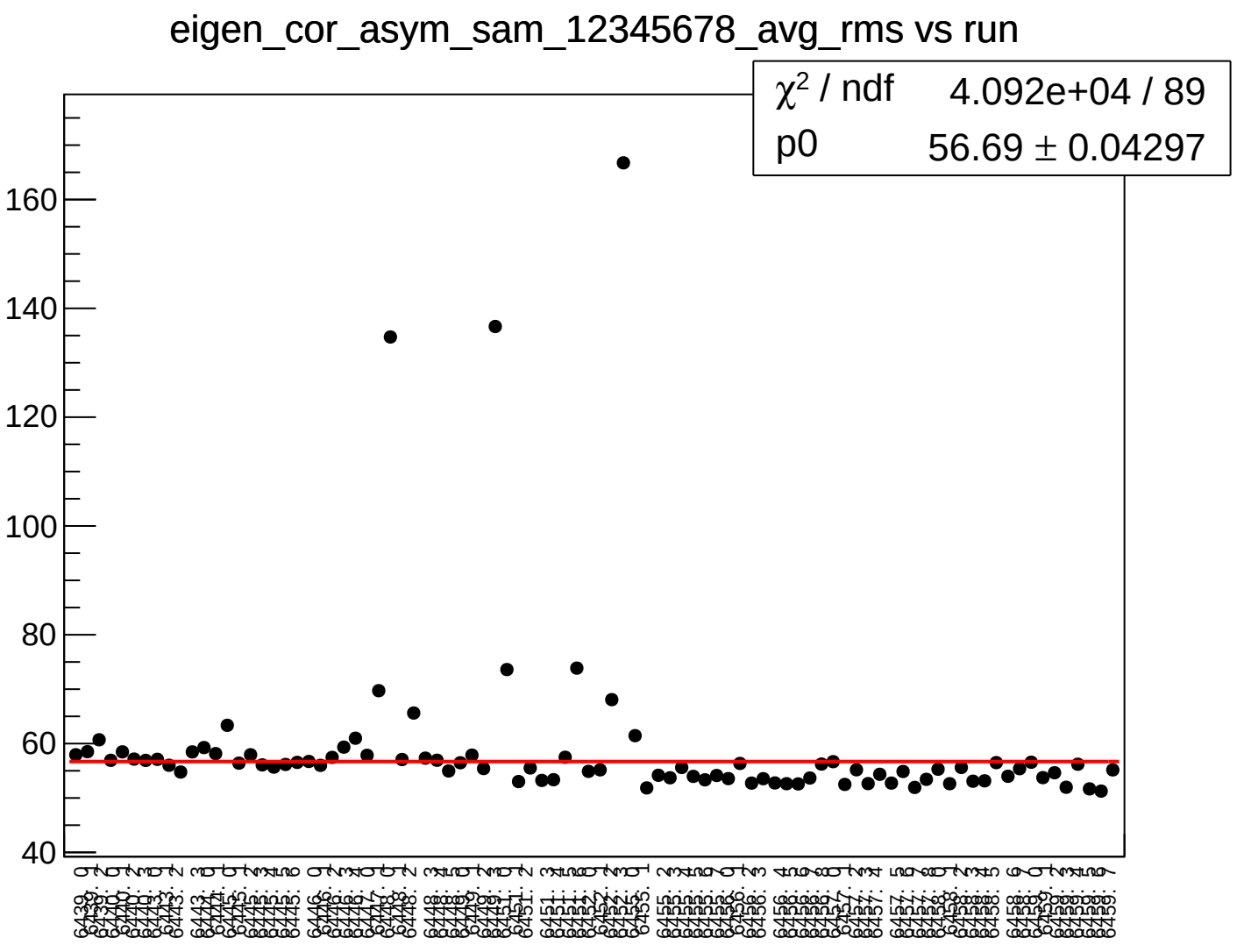

asym_sam_12345678_avg_cor_correction_mean vs run
χ² / ndf 71.37 / 89
p0 −2042 ± 762.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean −591.3
Std Dev 0
3
2
1
0
−1
−2

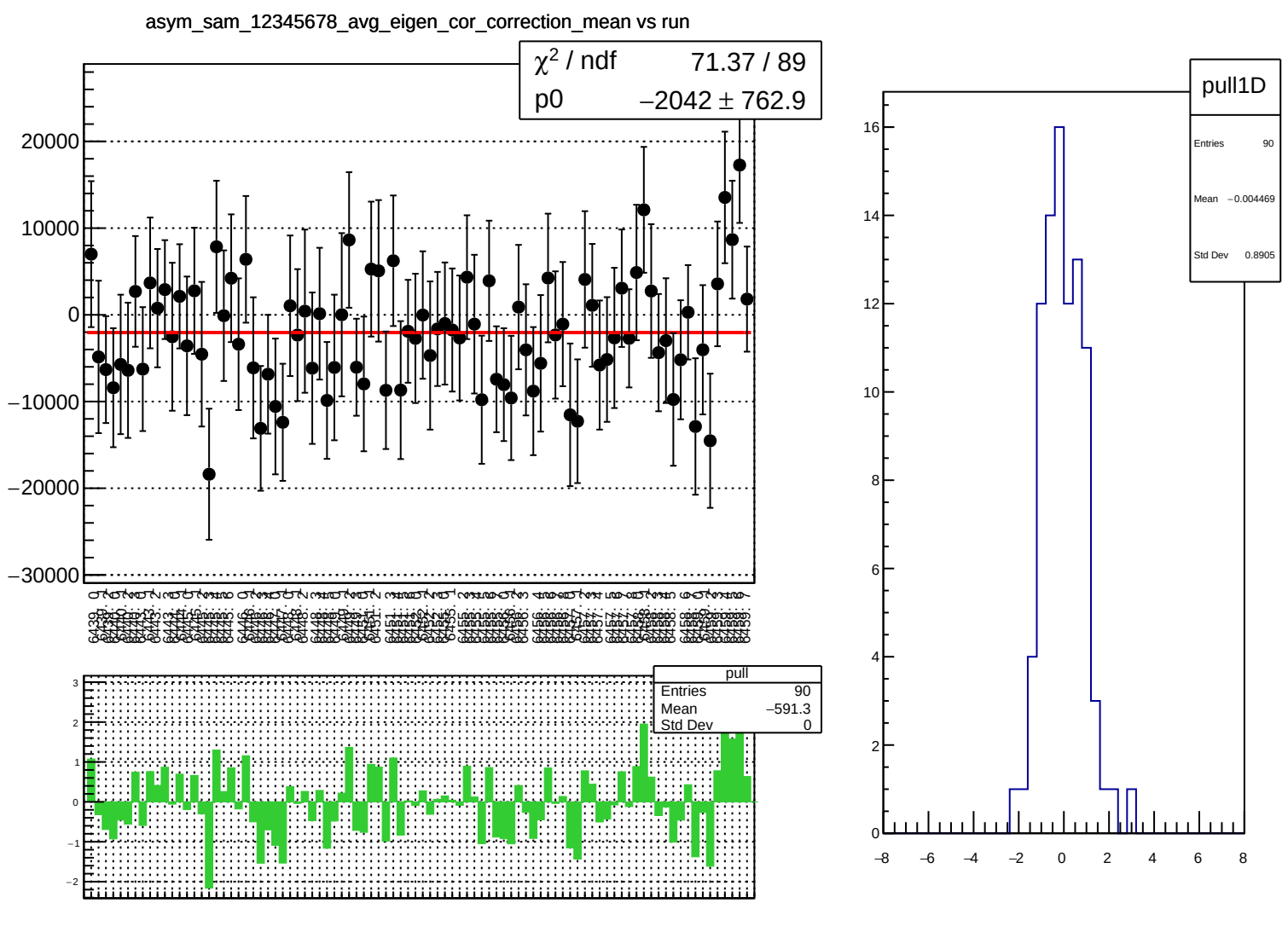

pull1D
Entries 90
Mean −0.004469
Std Dev 0.8905
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

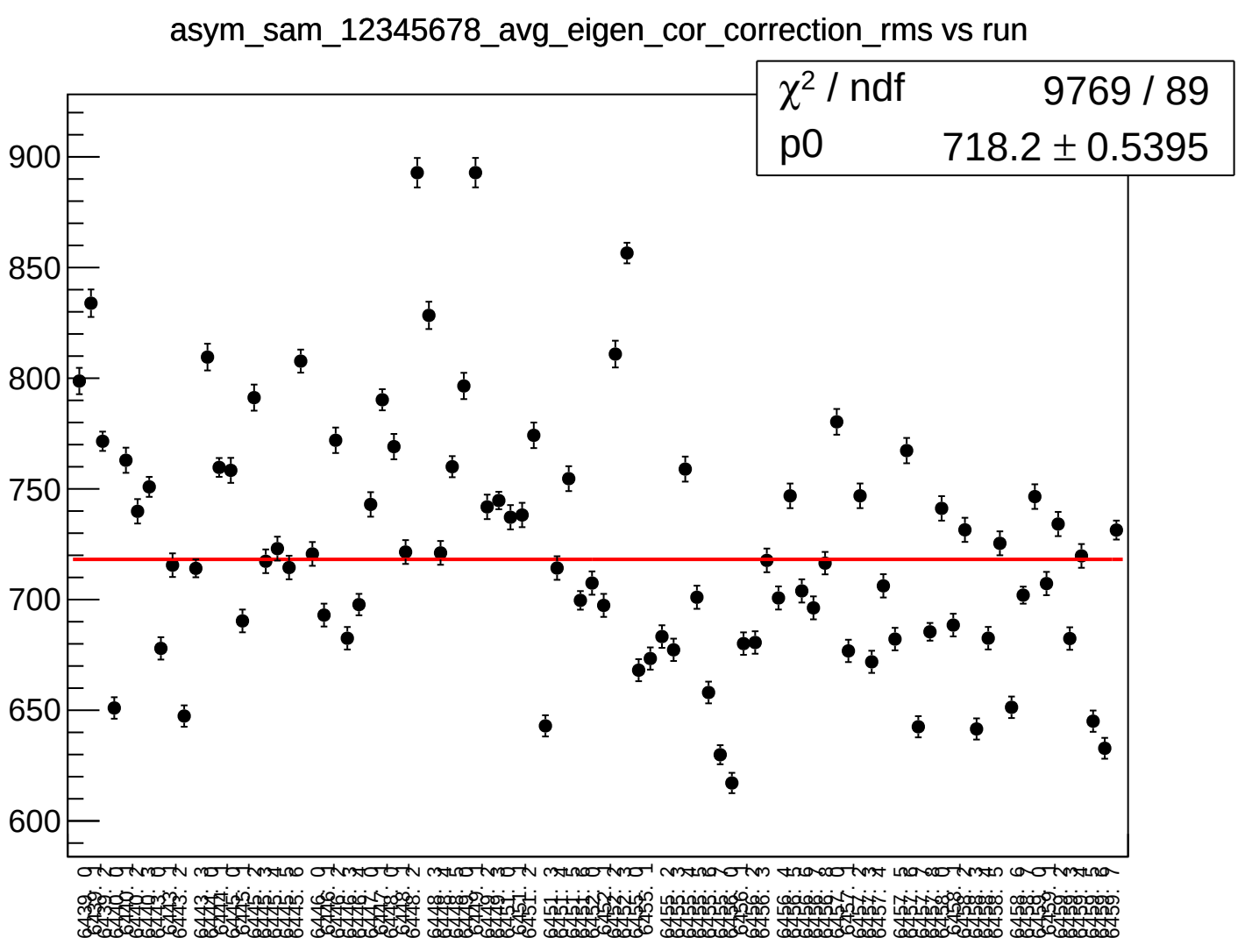

asym_sam_12345678_avg_cor_correction_rms vs run
χ² / ndf 9769 / 89
p0 718.2 ± 0.5395
900
850
800
750
700
650
600

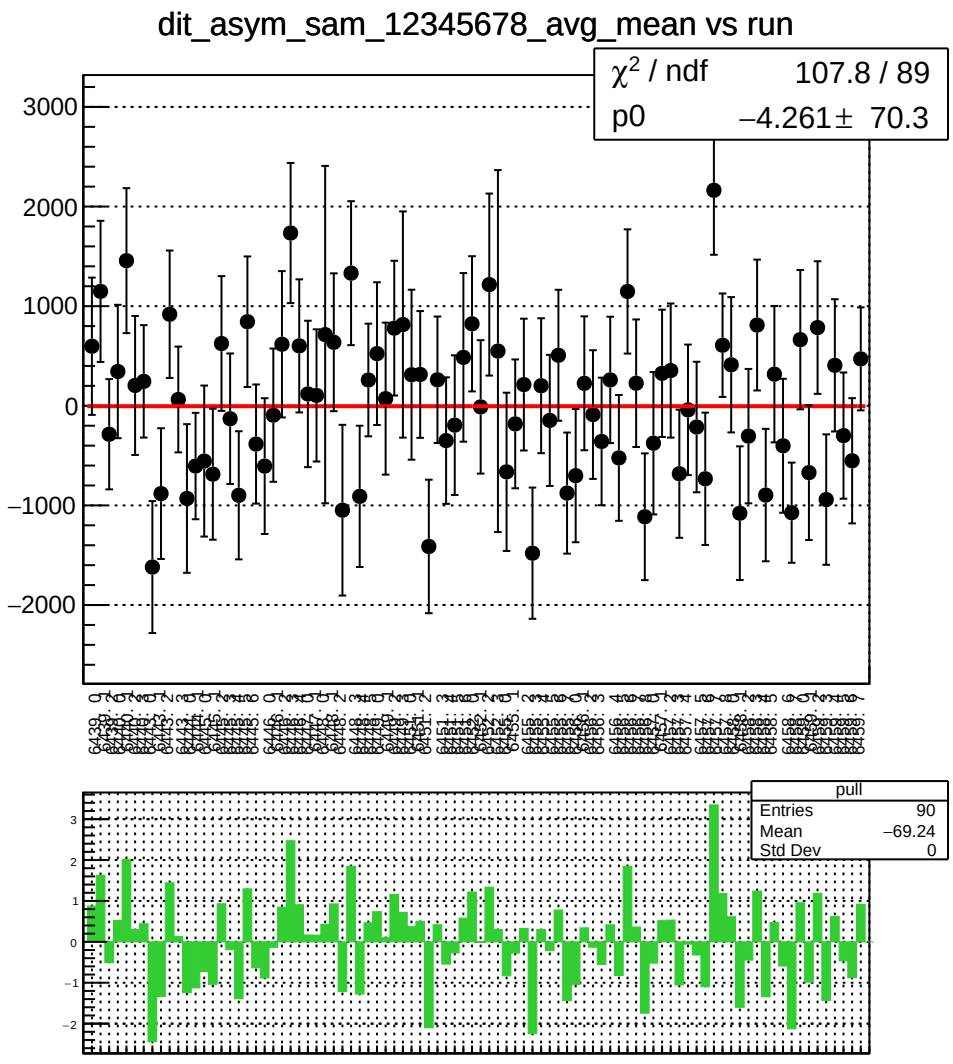

eigen_cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 112.6 / 89
p0 −45.59 ± 60.76
pull
Entries 90
Mean −63.14
Std Dev 0

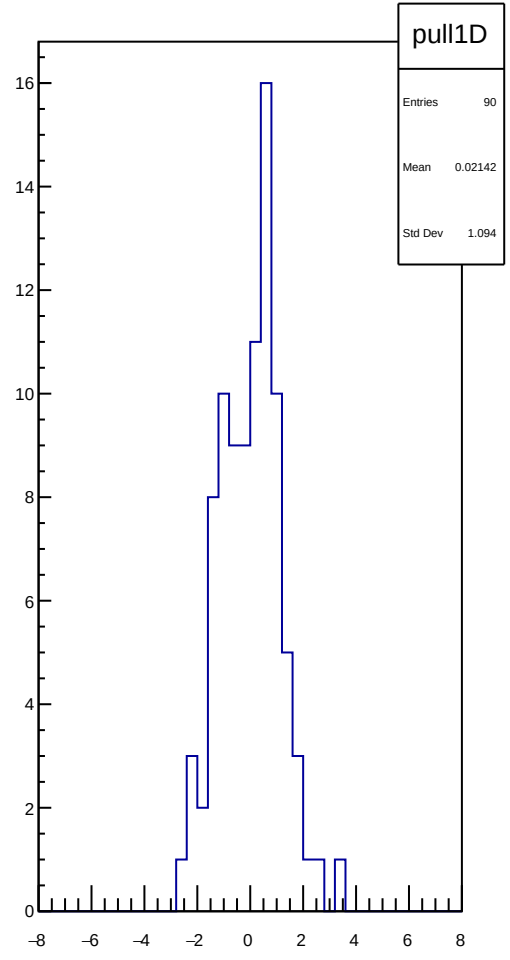

pull1D
Entries 90
Mean 0.02361
Std Dev 1.118

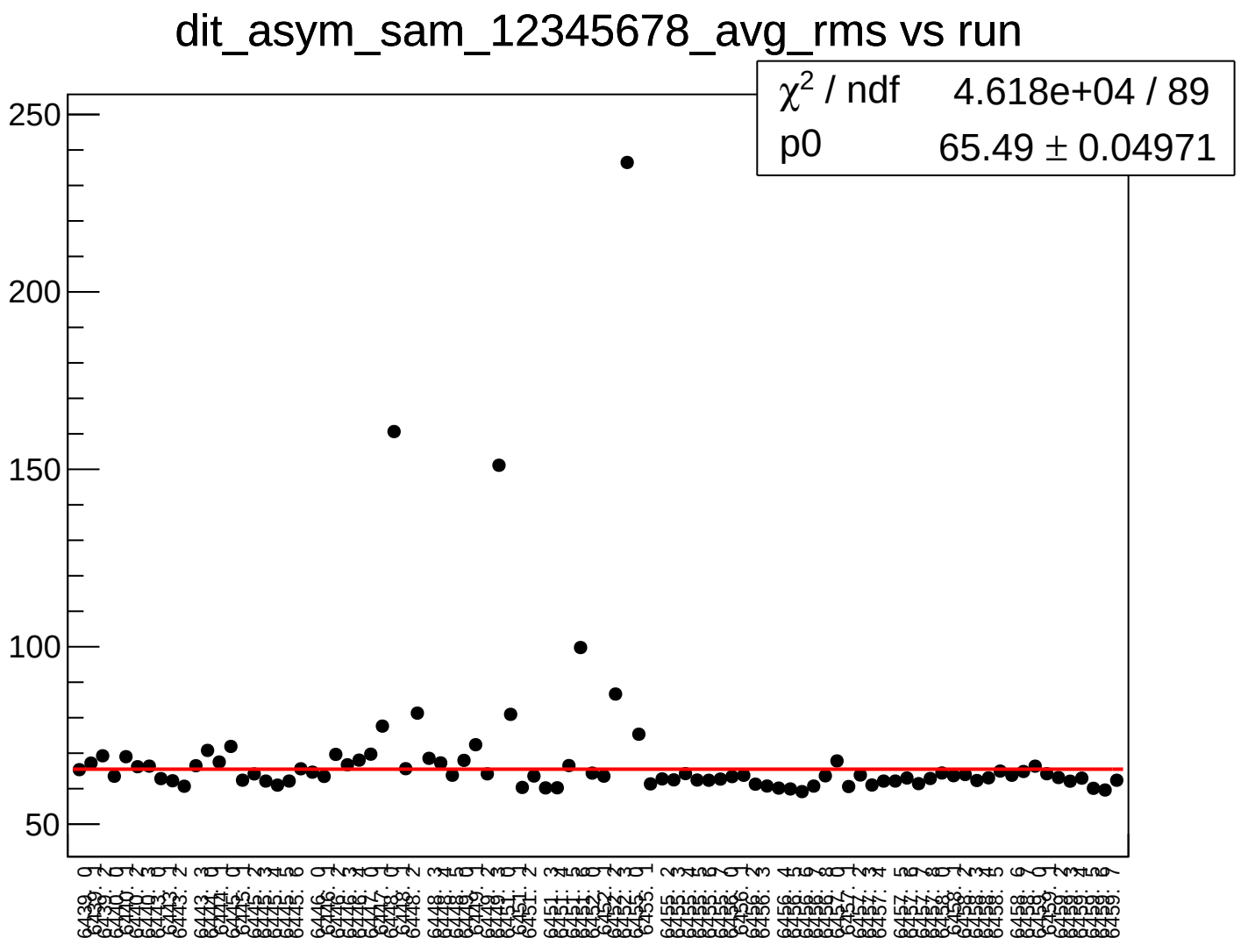

eigen_cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 4.092e+04 / 89
p0 56.69 ± 0.04297
160
140
120
100
80
60
40

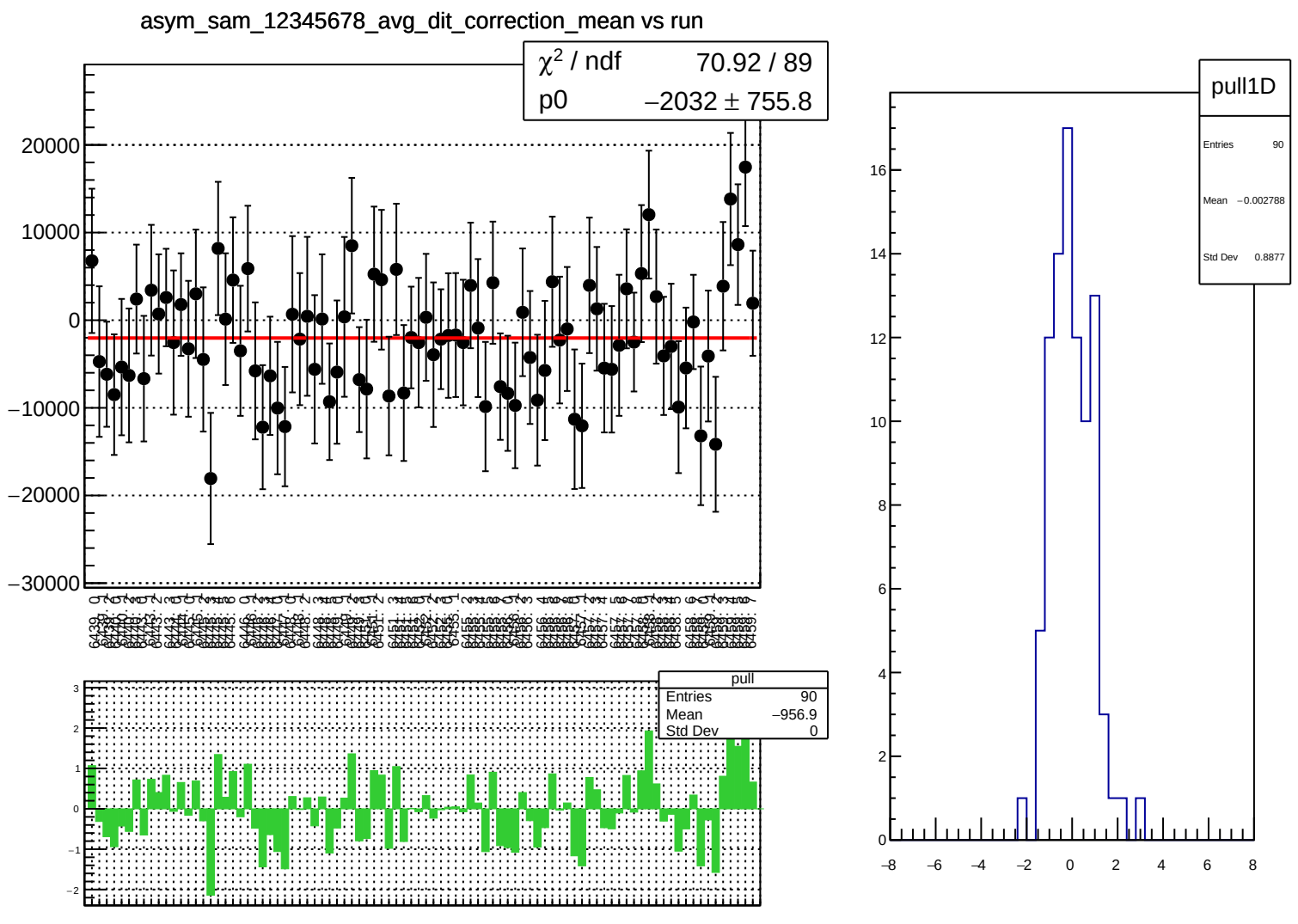

asym_sam_12345678_avg_eigen_cor_correction_mean vs run
χ² / ndf 71.37 / 89
p0 −2042 ± 762.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean −591.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.004469
Std Dev 0.8905
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

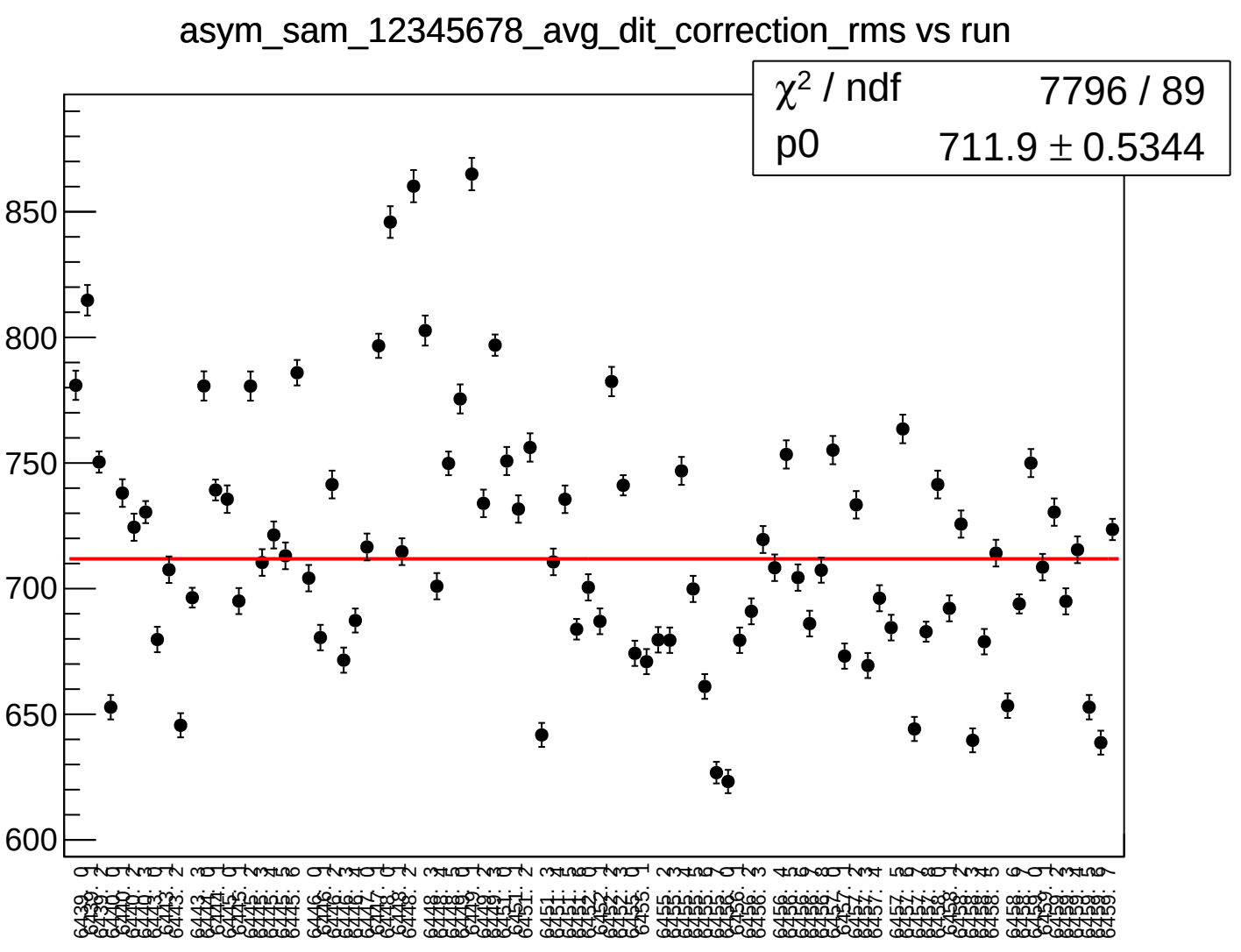

asym_sam_12345678_avg_eigen_cor_correction_rms vs run
χ² / ndf 9769 / 89
p0 718.2 ± 0.5395
900
850
800
750
700
650
600

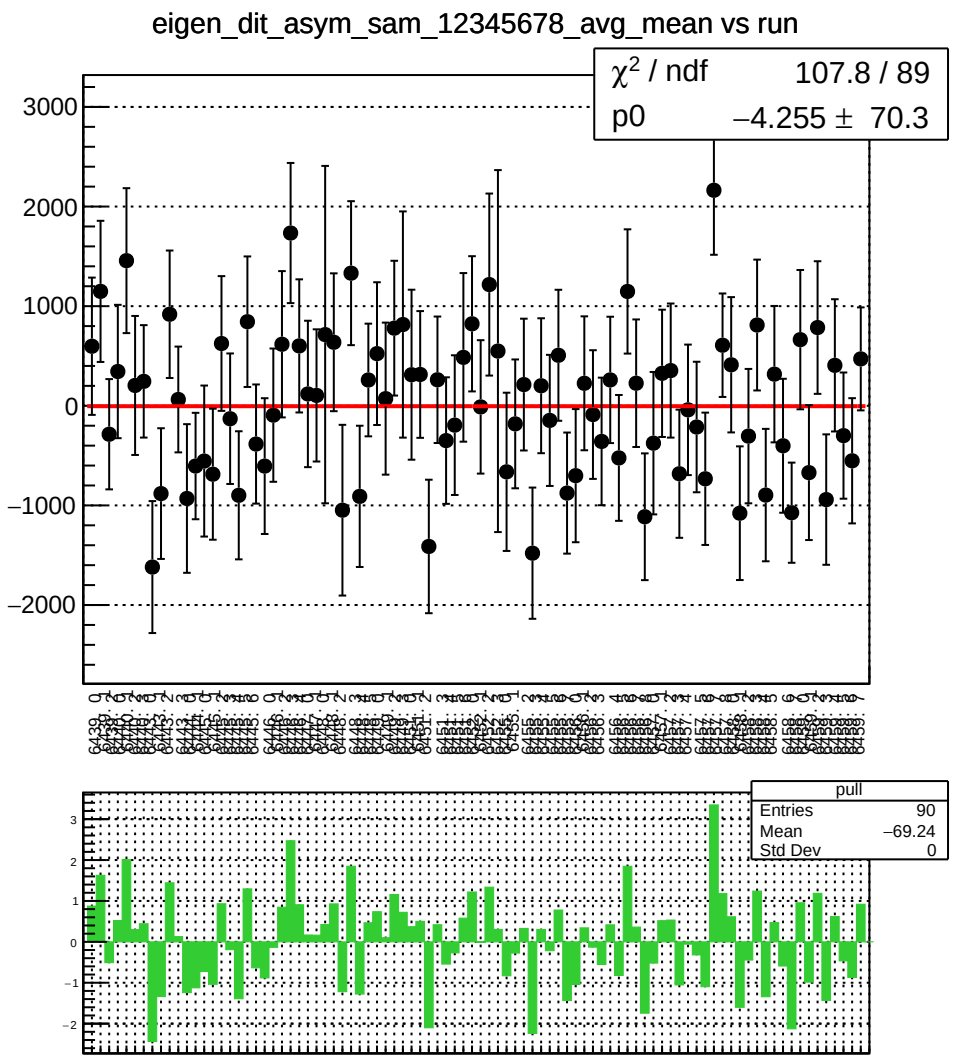

dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 107.8 / 89
p0 −4.261 ± 70.3
3000
2000
1000
0
−1000
−2000
pull
Entries 90
Mean −69.24
Std Dev 0
3
2
1
0
−1
−2

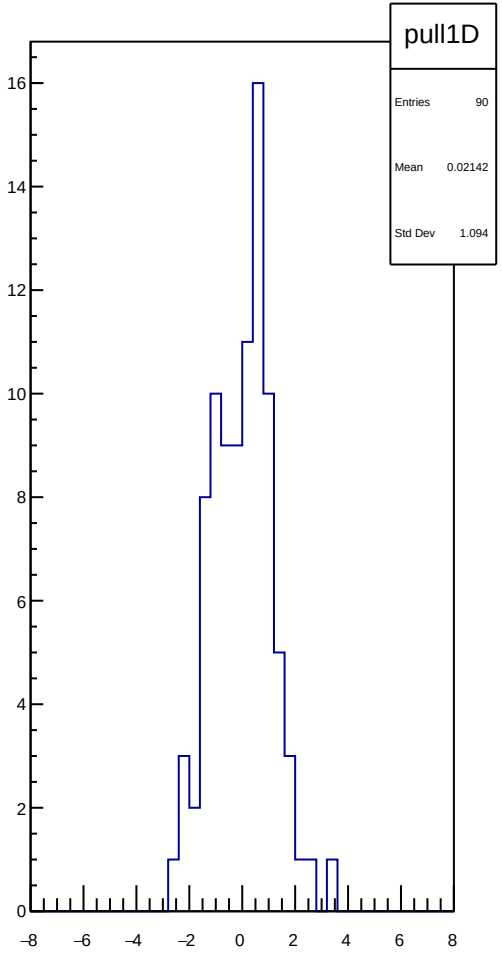

pull1D
Entries 90
Mean 0.02142
Std Dev 1.094
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

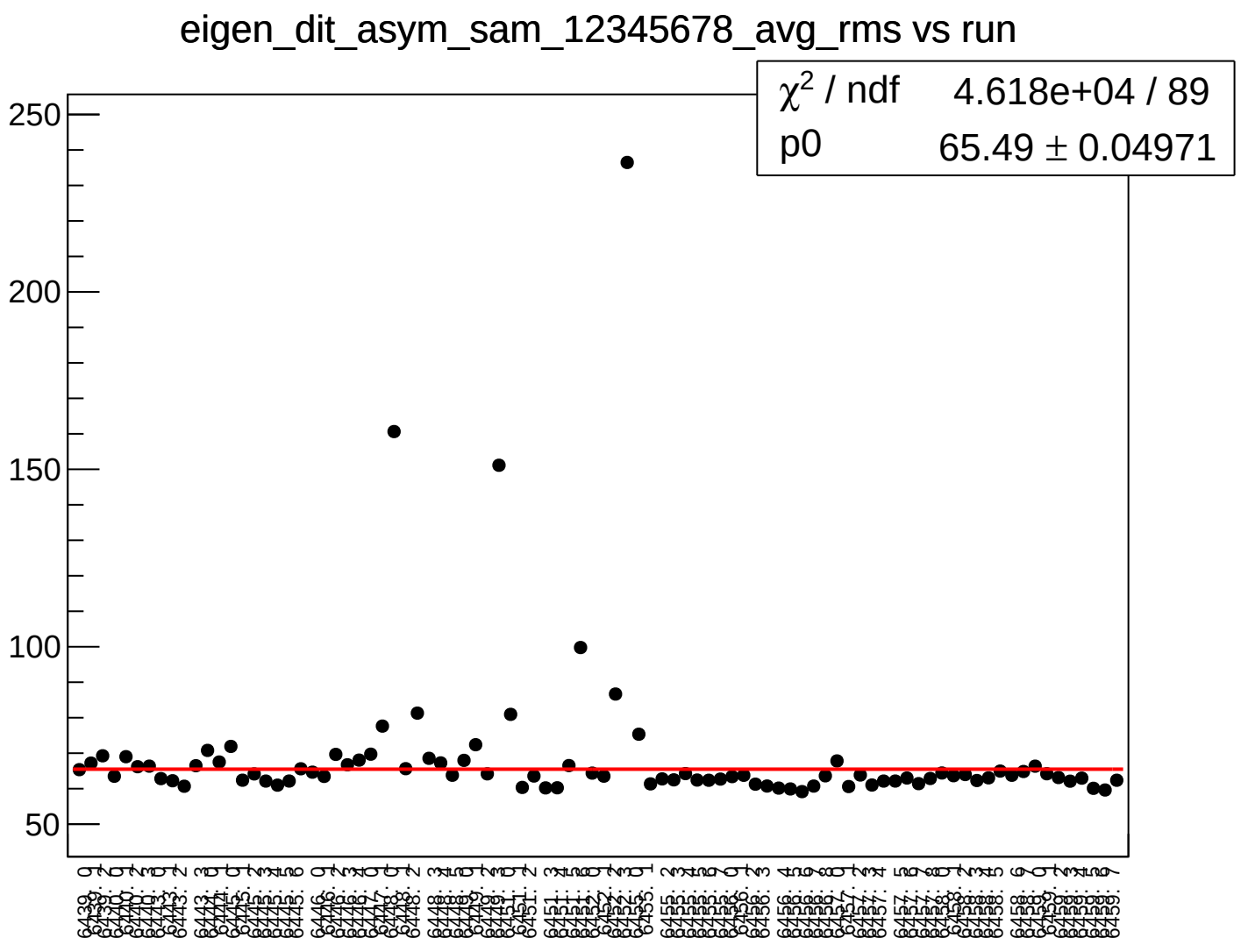

dit_asym_sam_12345678_avg_rms vs run
χ^2 / ndf 4.618e+04 / 89
p0 65.49 ± 0.04971
250
200
150
100
50

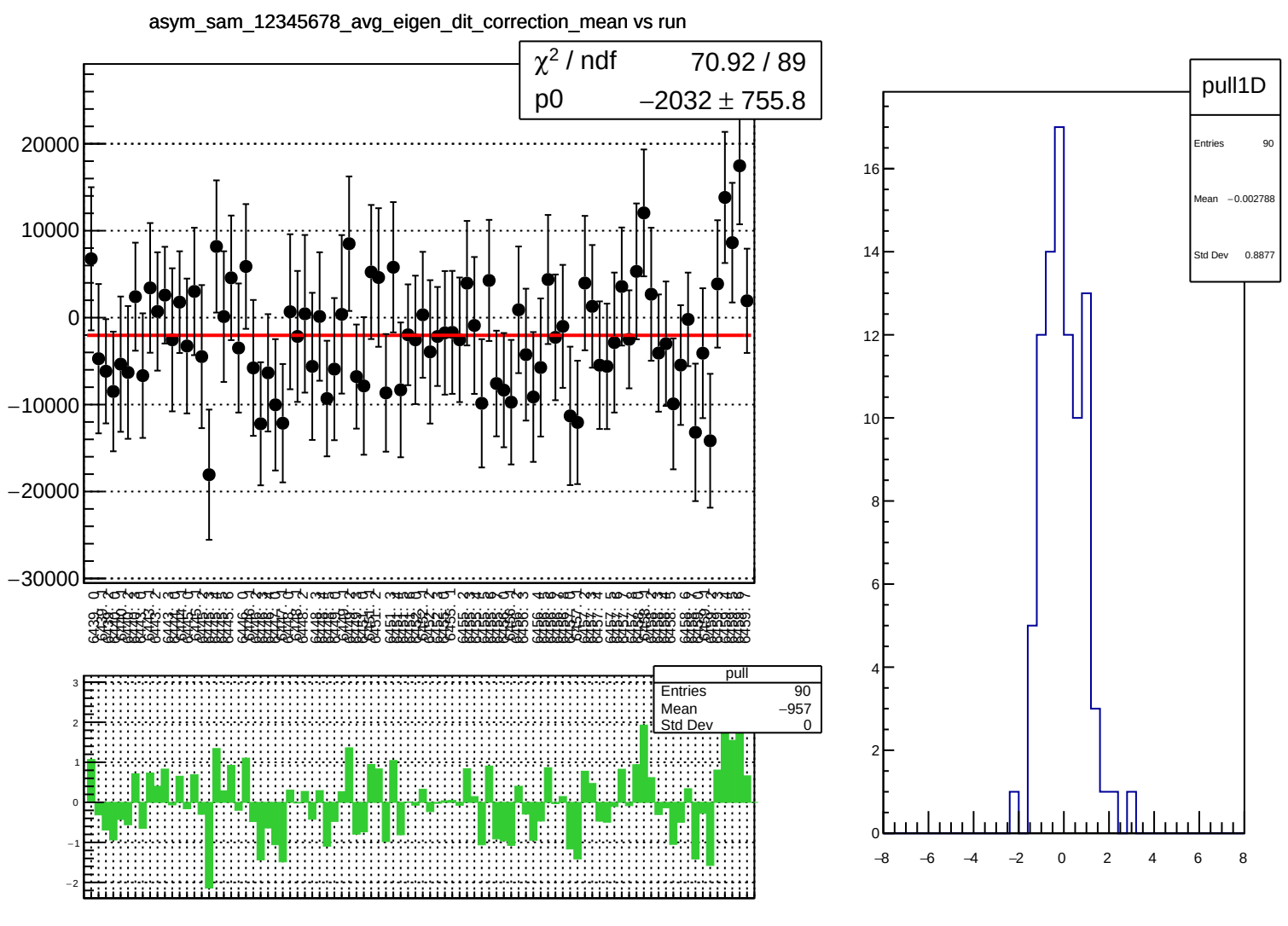

asym_sam_12345678_avg_dit_correction_mean vs run
χ² / ndf 70.92 / 89
p0 −2032 ± 755.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean −956.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.002788
Std Dev 0.8877
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

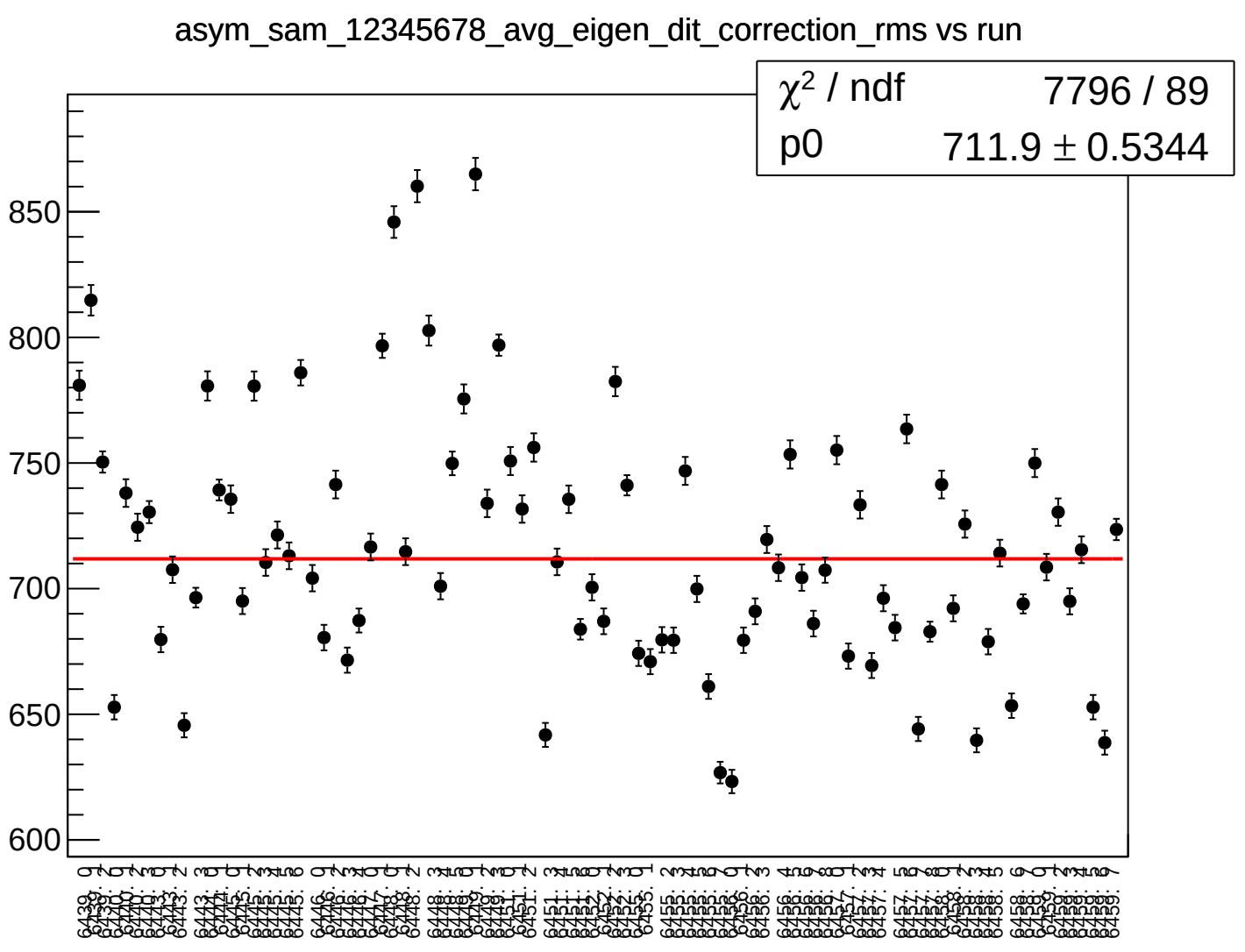

asym_sam_12345678_avg_dit_correction_rms vs run
χ² / ndf 7796 / 89
p0 711.9 ± 0.5344
850
800
750
700
650
600

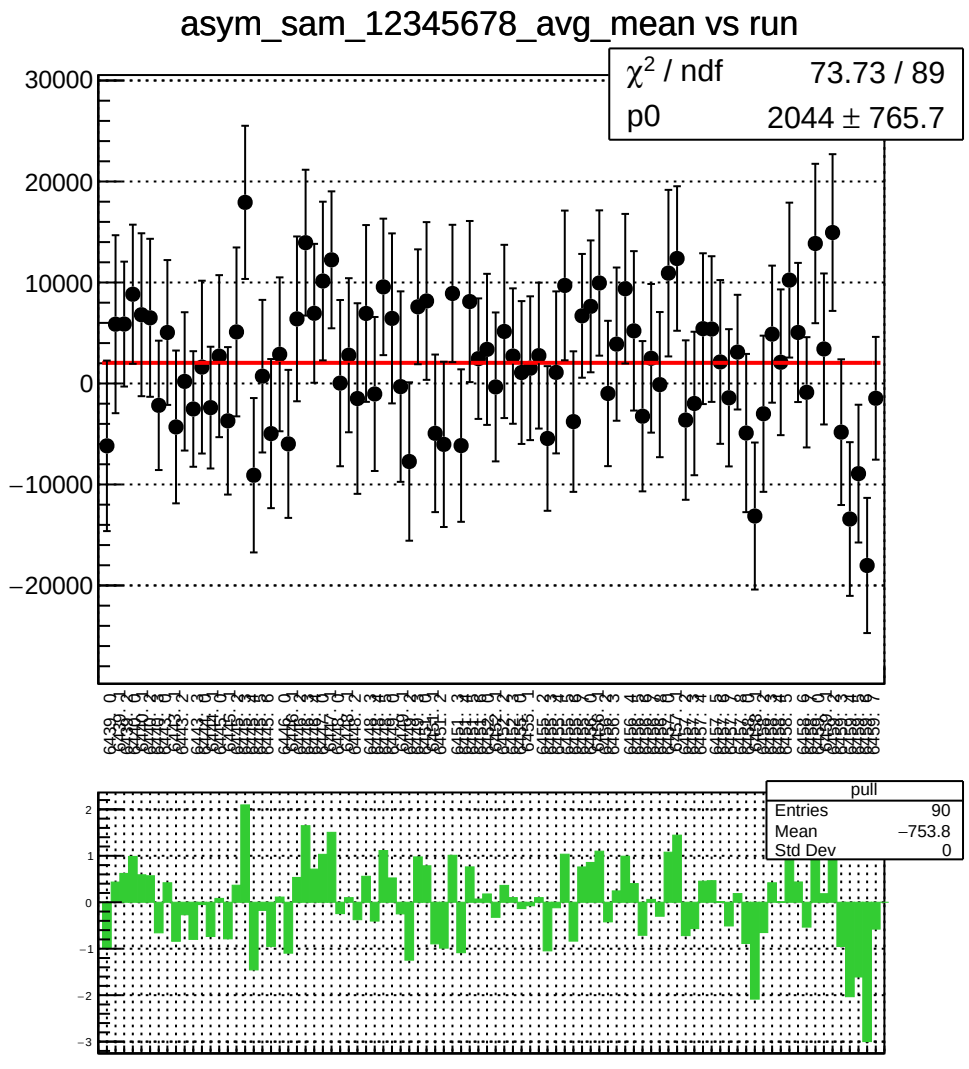

eigen_dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 107.8 / 89
p0 −4.255 ± 70.3
3000
2000
1000
0
−1000
−2000
pull
Entries 90
Mean −69.24
Std Dev 0
3
2
1
0
−1
−2

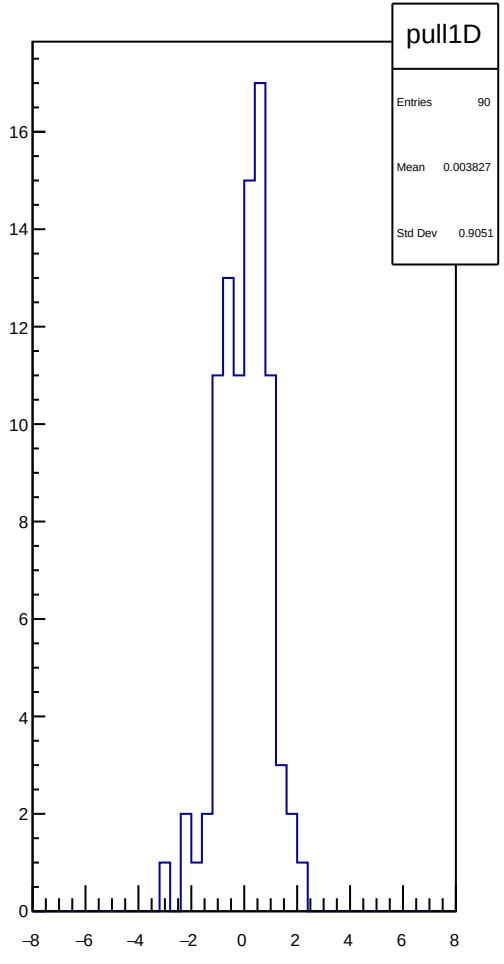

pull1D
Entries 90
Mean 0.02142
Std Dev 1.094
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

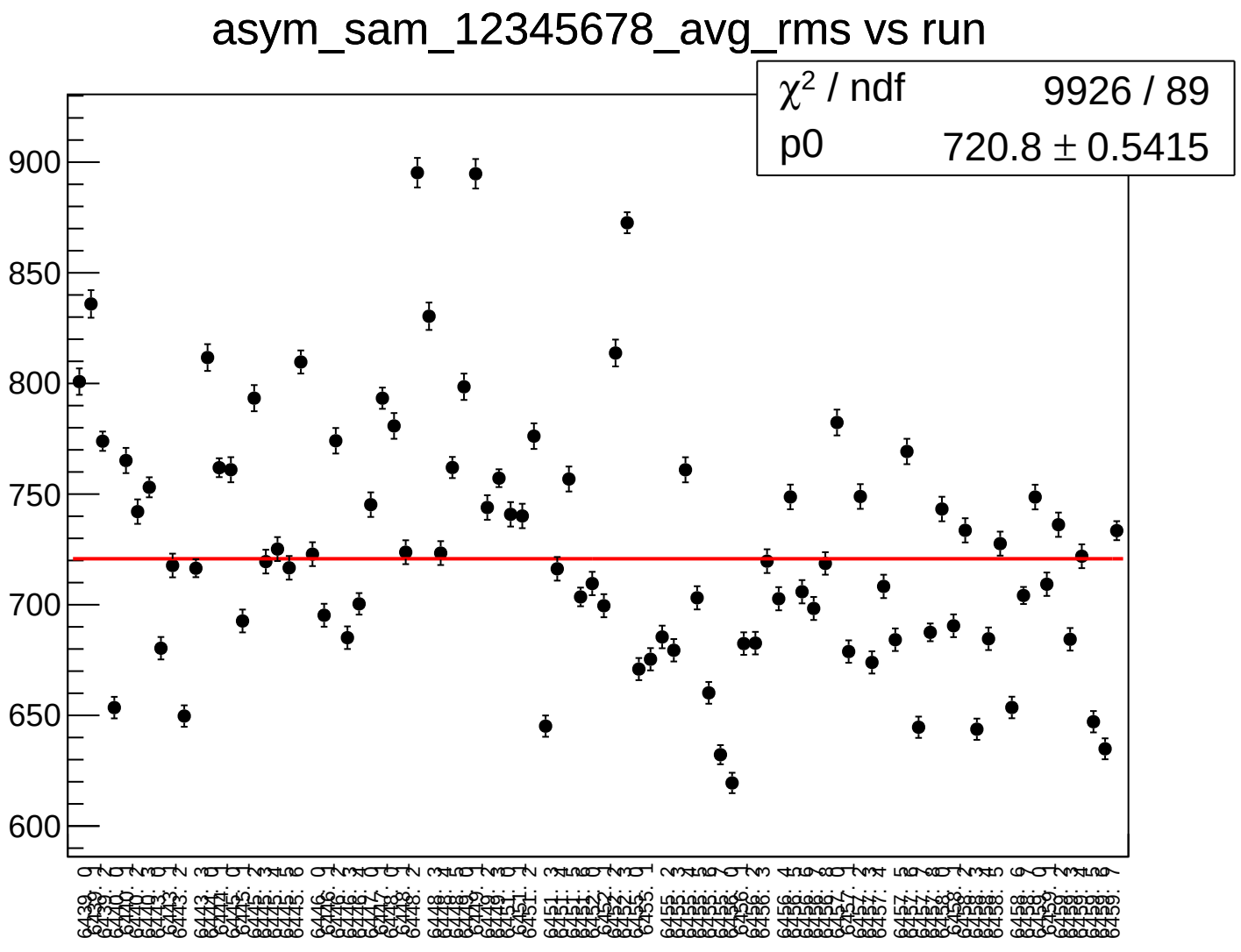

eigen_dit_asym_sam_12345678_avg_rms vs run
χ^2 / ndf 4.618e+04 / 89
p0 65.49 ± 0.04971
250
200
150
100
50

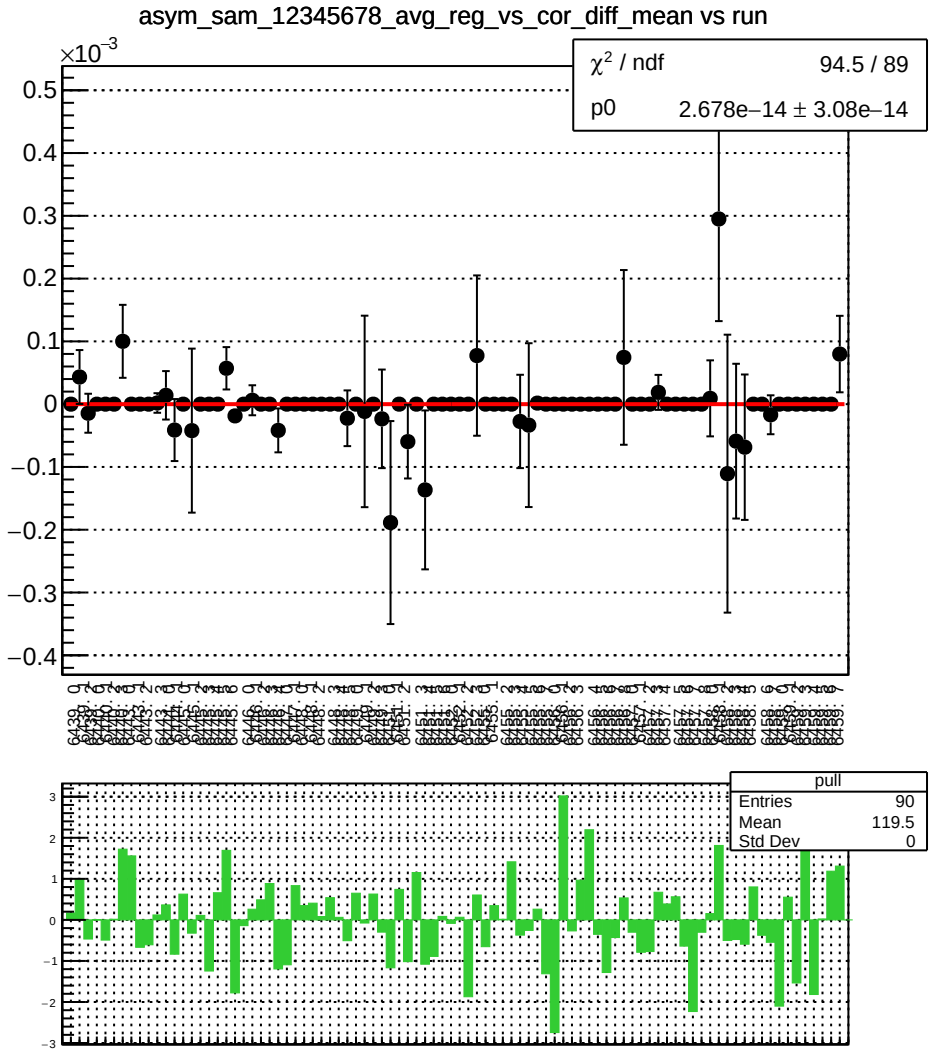

asym_sam_12345678_avg_eigen_dit_correction_mean vs run
χ² / ndf 70.92 / 89
p0 −2032 ± 755.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean −957
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.002788
Std Dev 0.8877
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

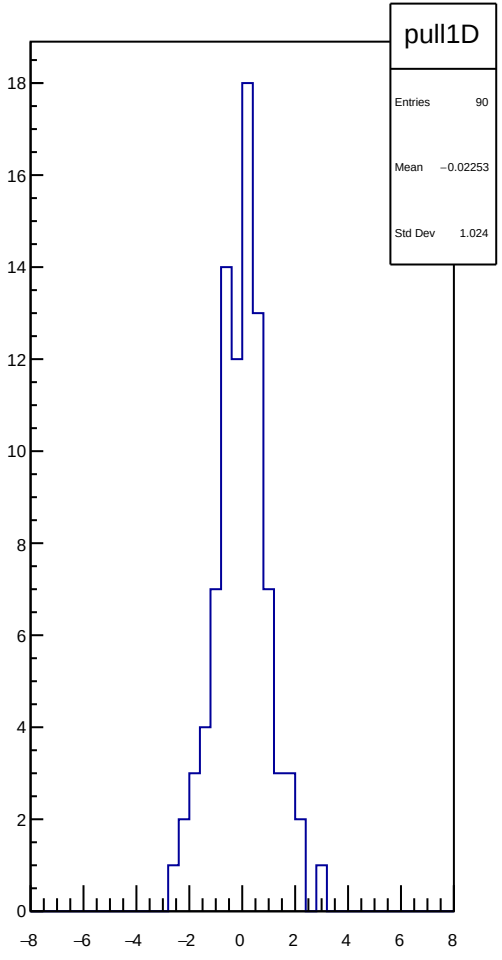

asym_sam_12345678_avg_eigen_dit_correction_rms vs run
χ² / ndf 7796 / 89
p0 711.9 ± 0.5344
850
800
750
700
650
600

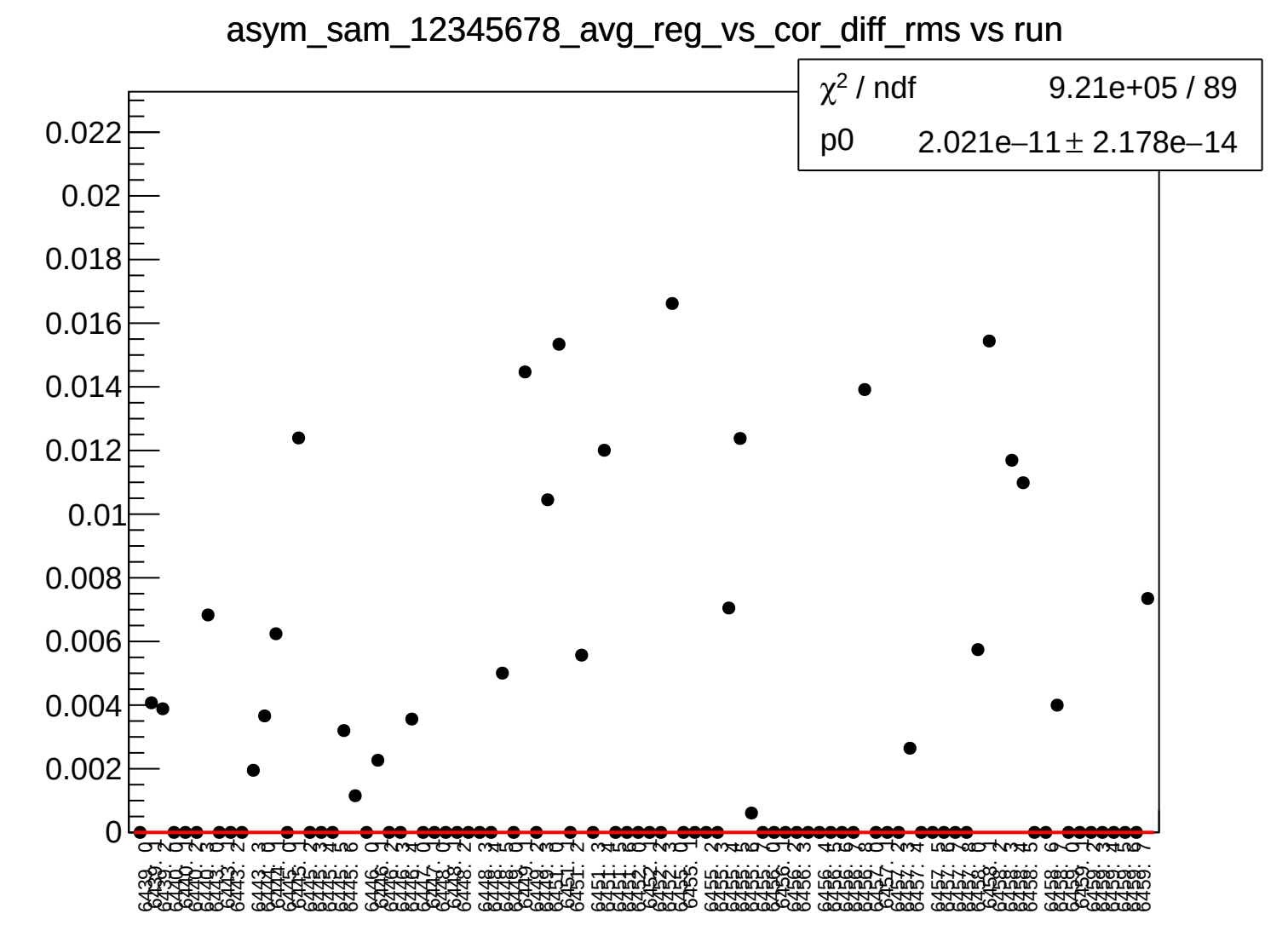

asym_sam_12345678_avg_mean vs run
χ² / ndf 73.73 / 89
p0 2044 ± 765.7
30000
20000
10000
0
−10000
−20000
pull
Entries 90
Mean −753.8
Std Dev 0
2
1
0
−1
−2
−3

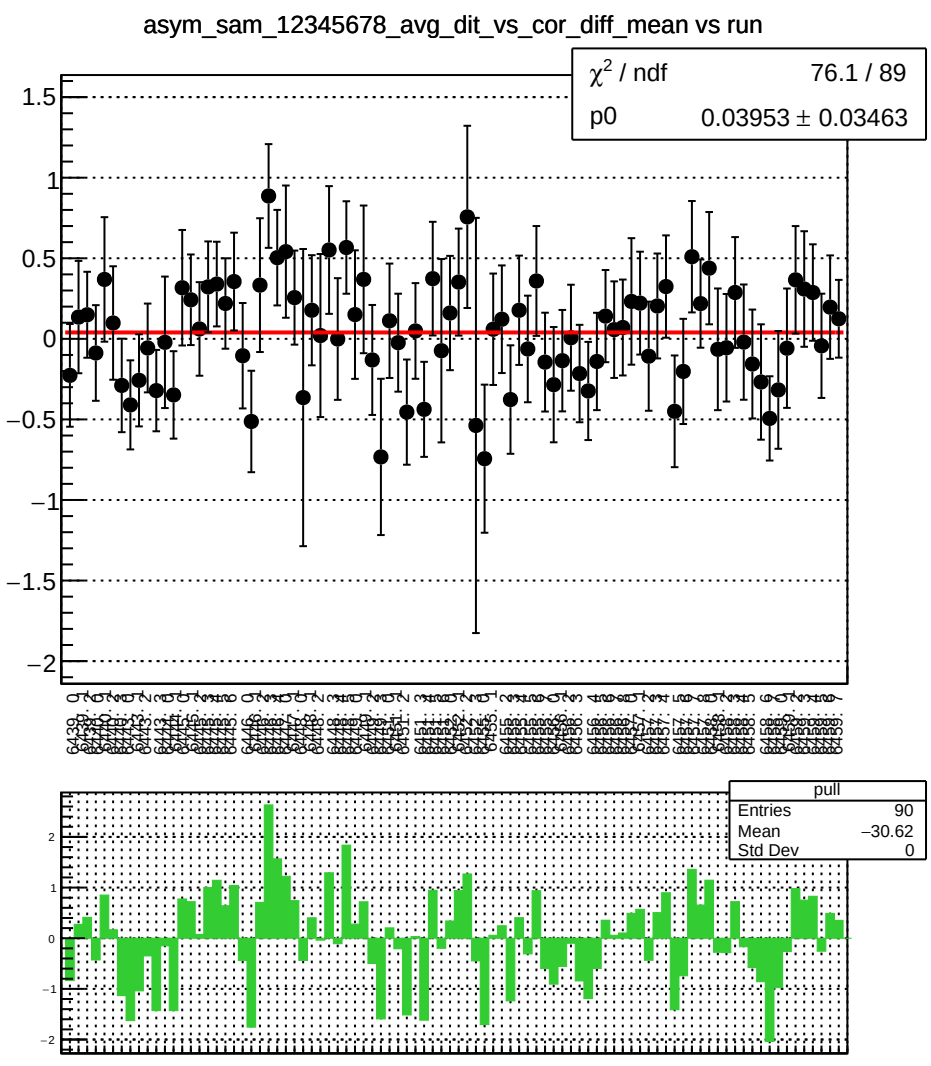

pull1D
Entries 90
Mean 0.003827
Std Dev 0.9051
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

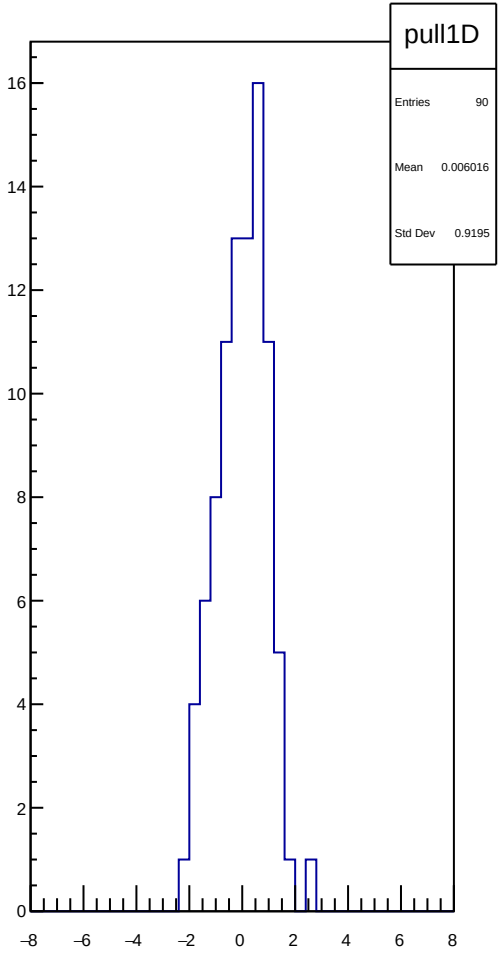

asym_sam_12345678_avg_rms vs run
χ² / ndf 9926 / 89
p0 720.8 ± 0.5415
900
850
800
750
700
650
600

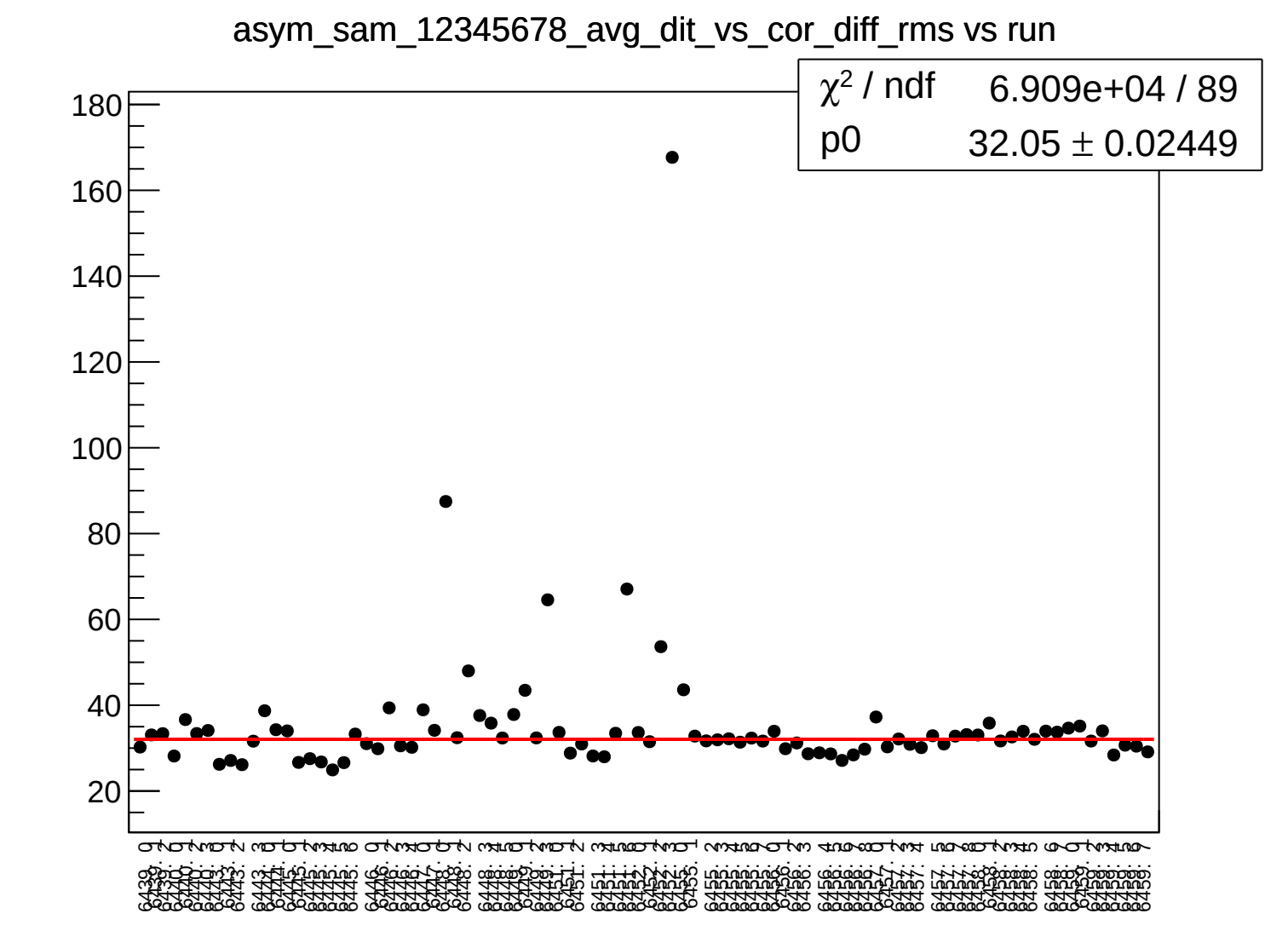

asym_sam_12345678_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 94.5 / 89
p0 2.678e−14 ± 3.08e−14
pull
Entries 90
Mean 119.5
Std Dev 0

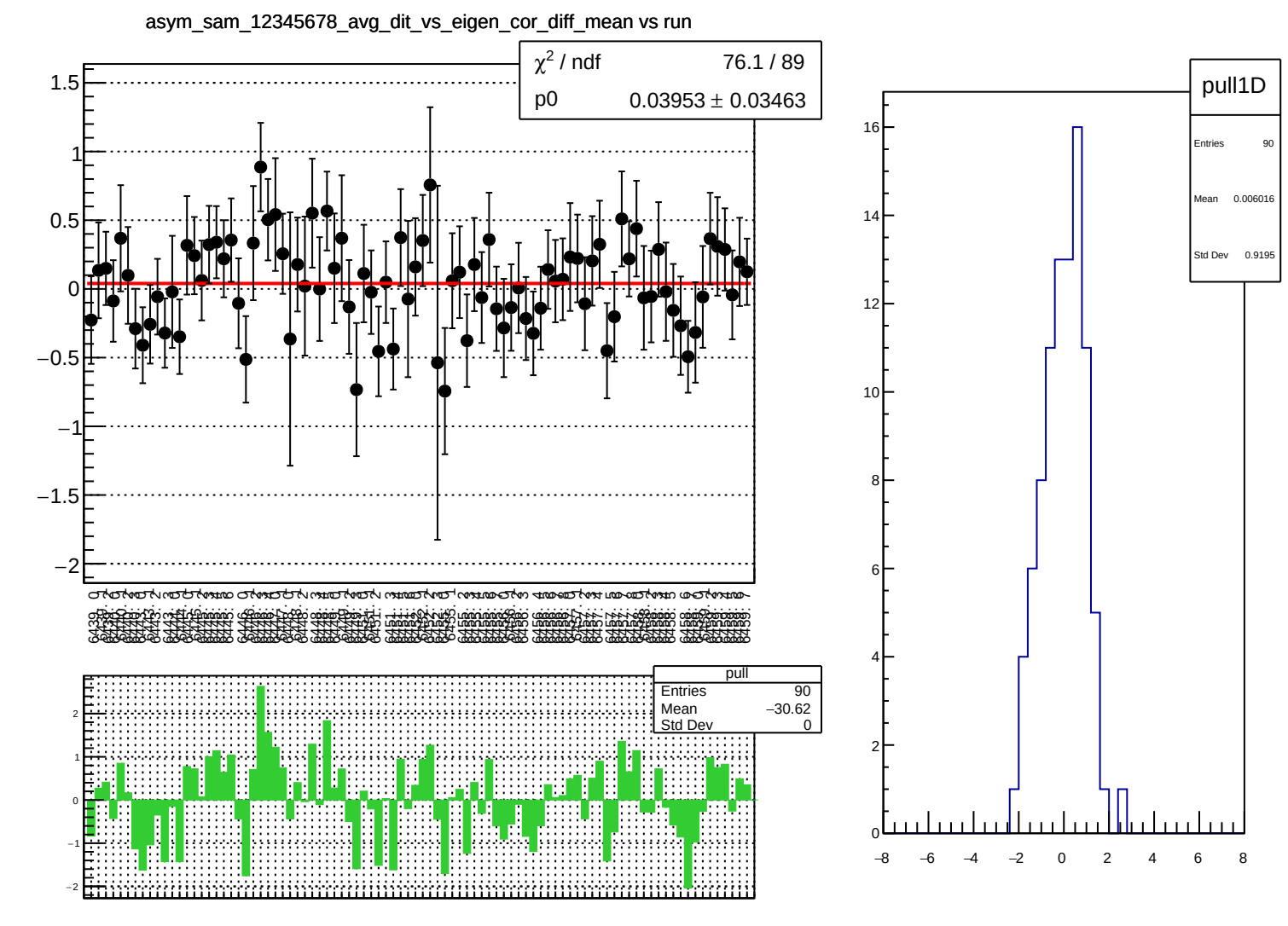

pull1D
Entries 90
Mean −0.02253
Std Dev 1.024

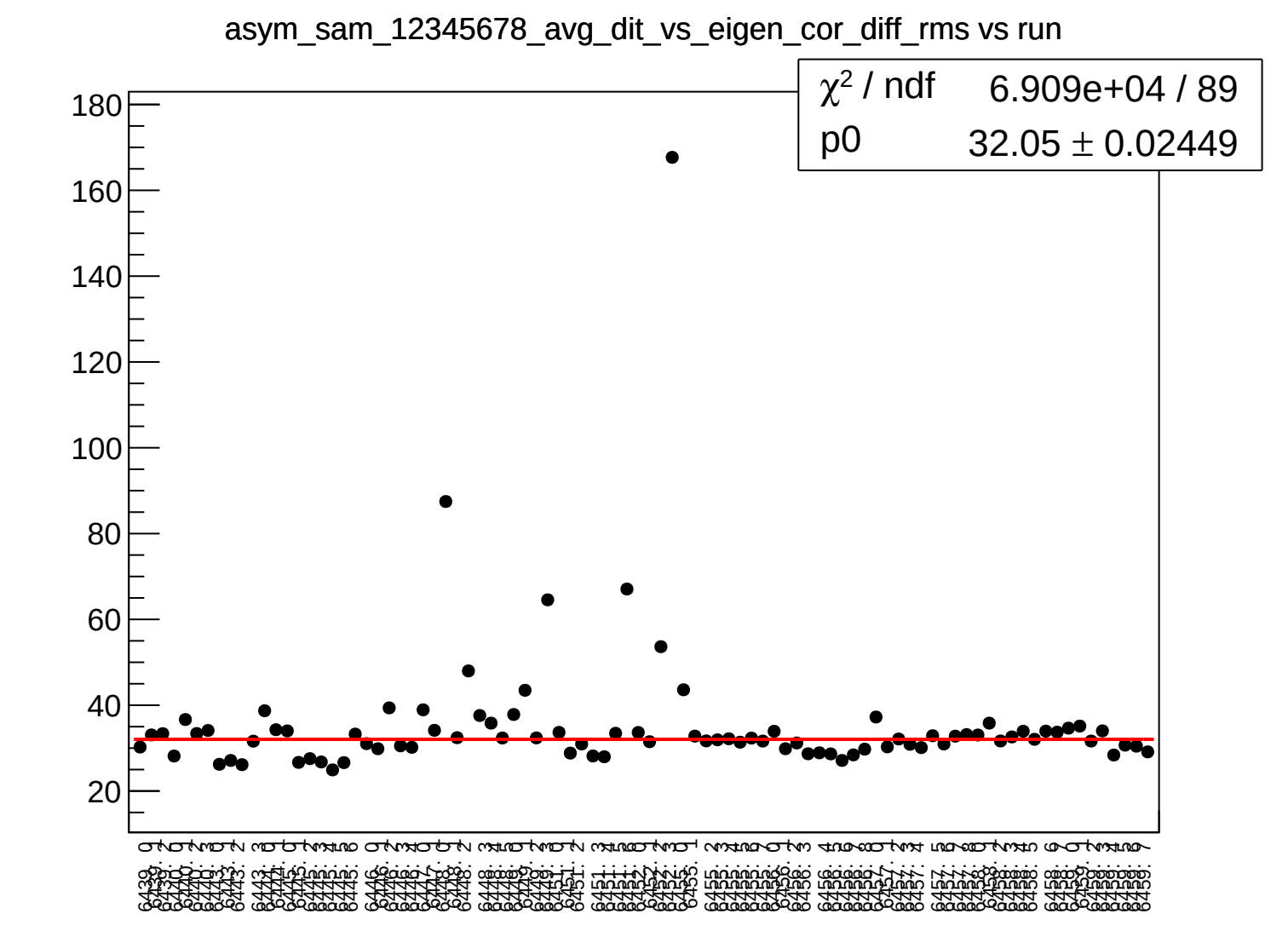

asym_sam_12345678_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.21e+05 / 89
p0 2.021e−11 ± 2.178e−14
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0

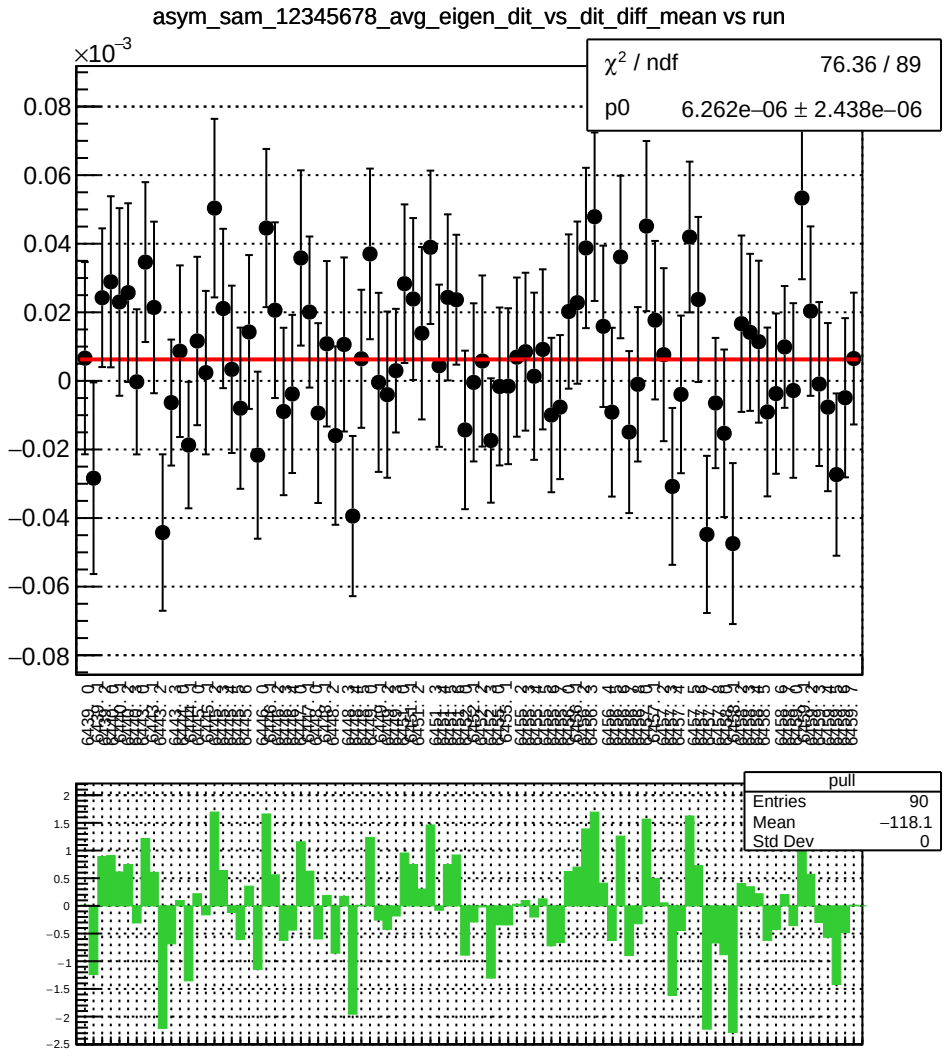

asym_sam_12345678_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 76.1 / 89
p0 0.03953 ± 0.03463
pull
Entries 90
Mean −30.62
Std Dev 0

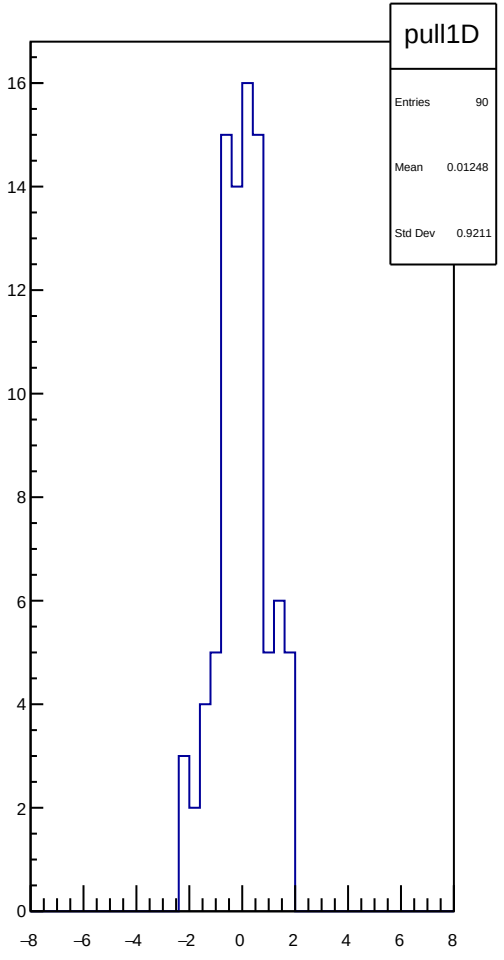

pull1D
Entries 90
Mean 0.006016
Std Dev 0.9195

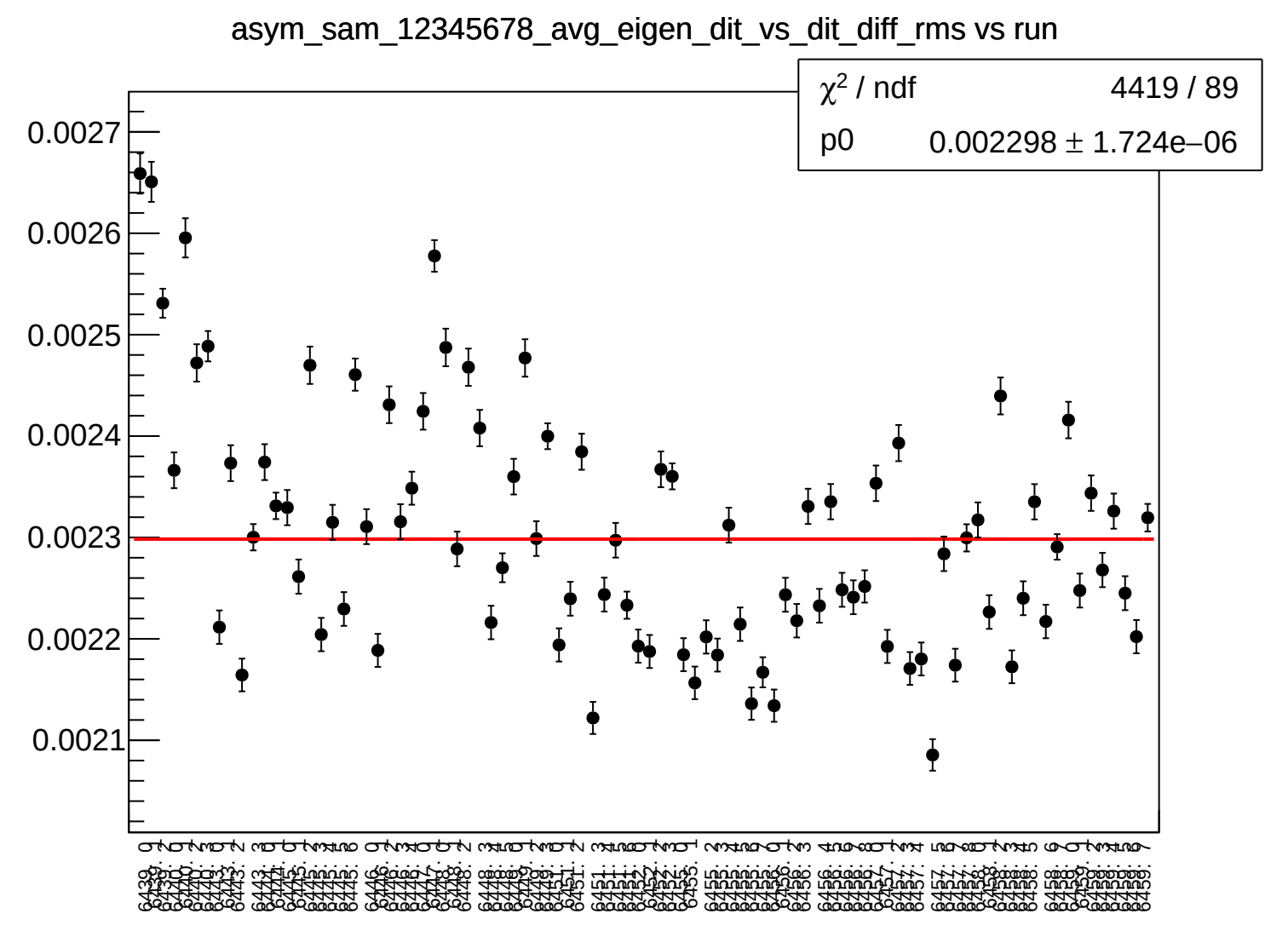

asym_sam_12345678_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.909e+04 / 89
p0 32.05 ± 0.02449
180
160
140
120
100
80
60
40
20

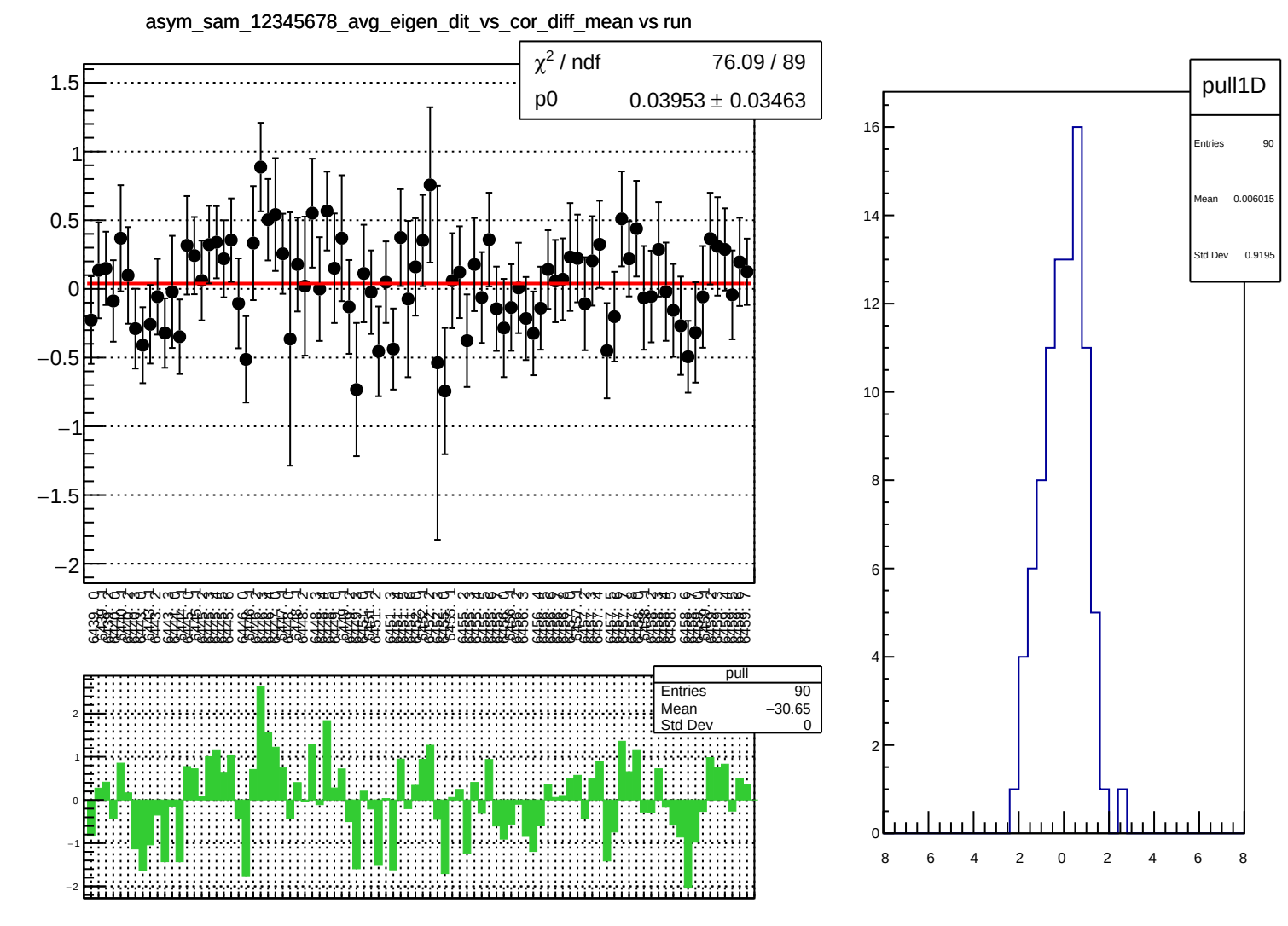

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.1 / 89
p0 0.03953 ± 0.03463
pull
Entries 90
Mean −30.62
Std Dev 0
pull1D
Entries 90
Mean 0.006016
Std Dev 0.9195

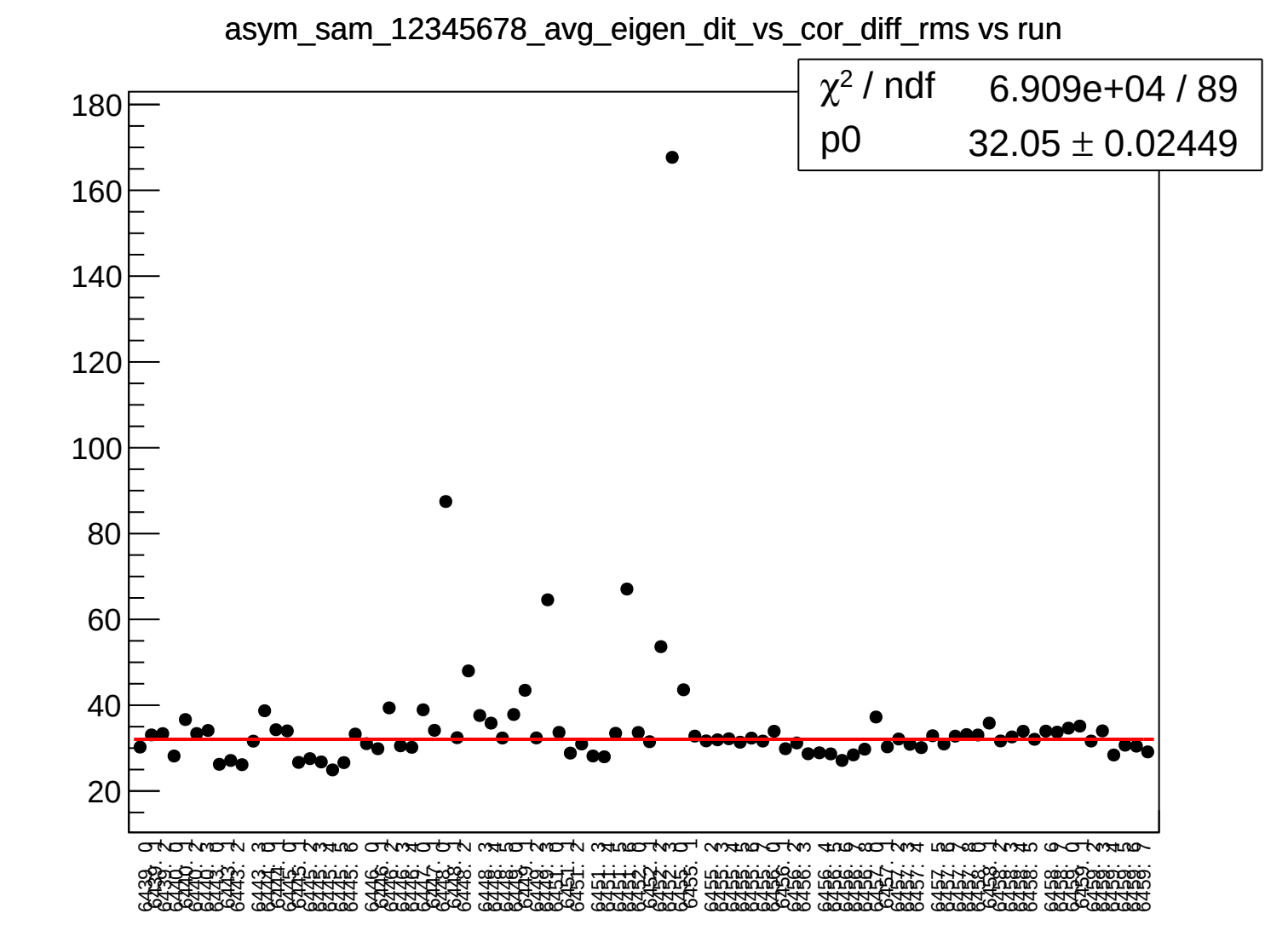

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.909e+04 / 89
p0 32.05 ± 0.02449
180
160
140
120
100
80
60
40
20

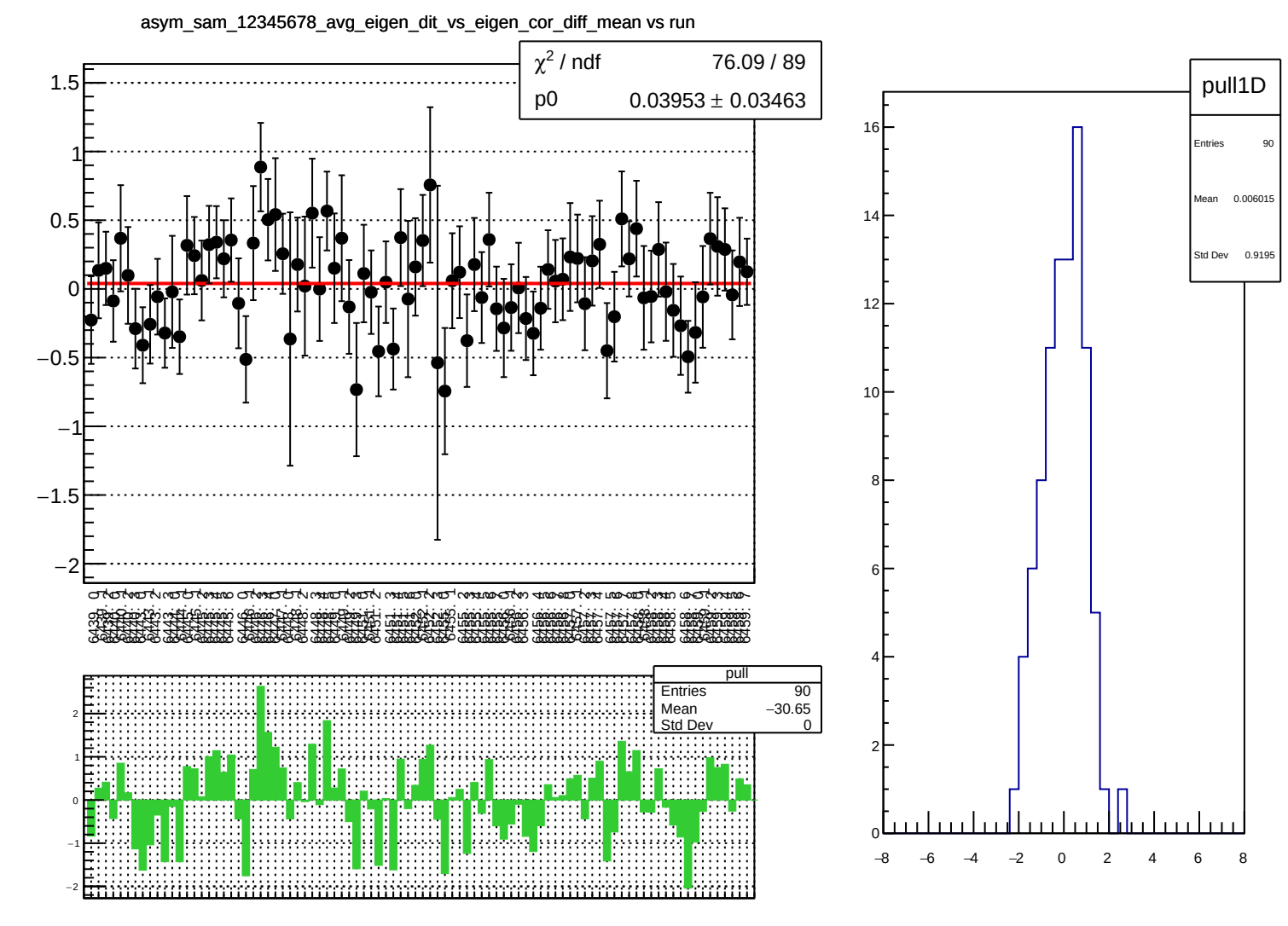

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 76.36 / 89
p0 6.262e−06 ± 2.438e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 90
Mean −118.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

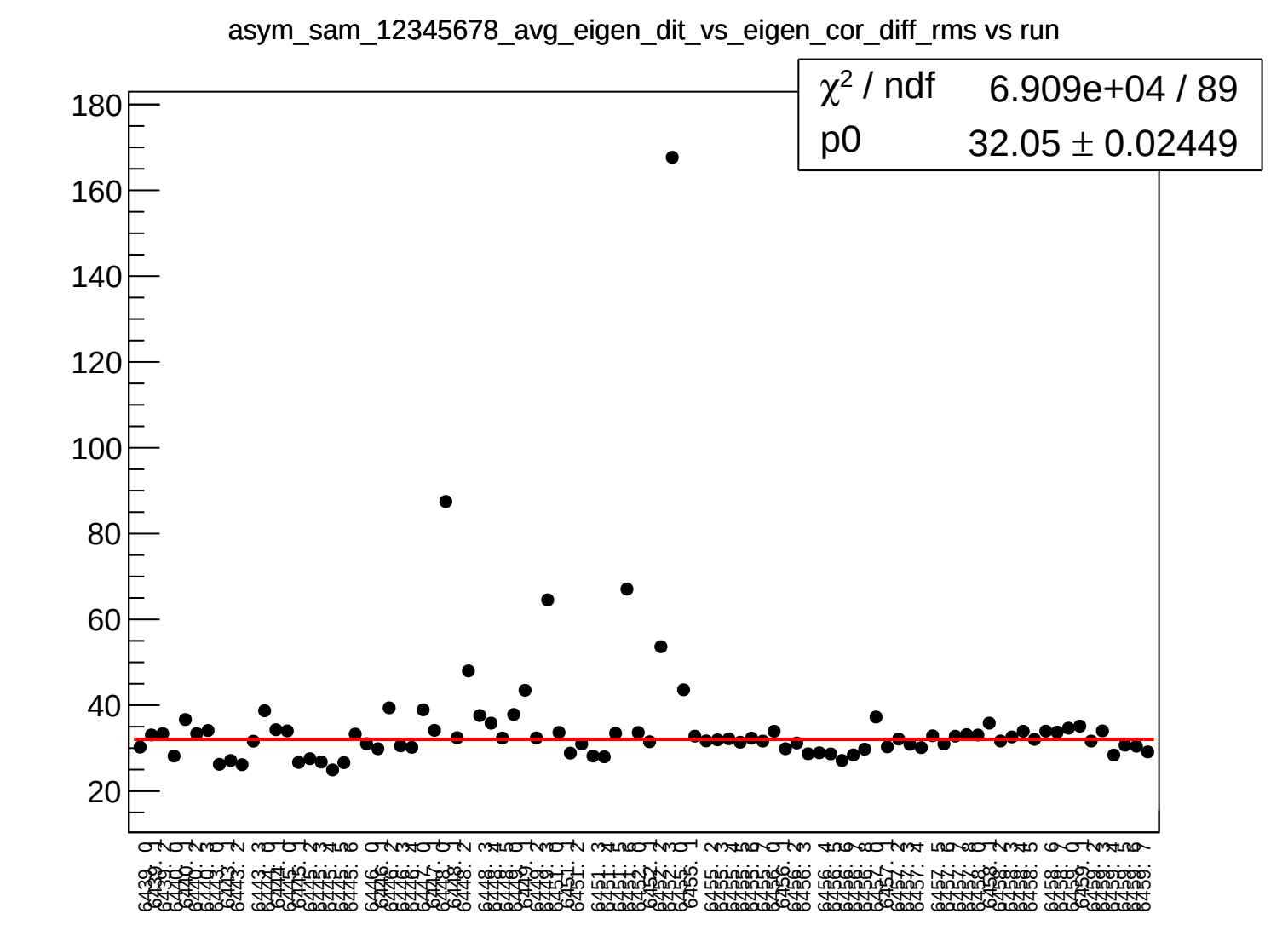

pull1D
Entries 90
Mean 0.01248
Std Dev 0.9211
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

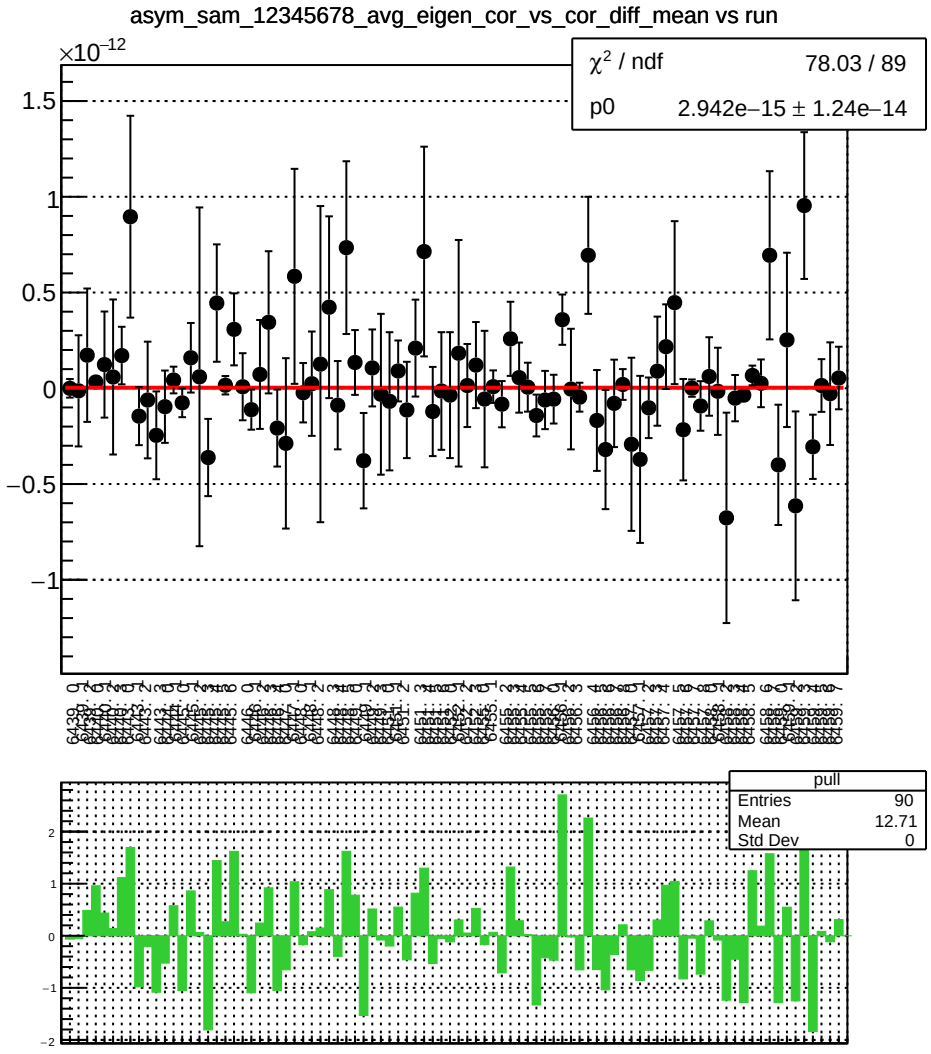

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4419 / 89
p0 0.002298 ± 1.724e−06
0.0027
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021

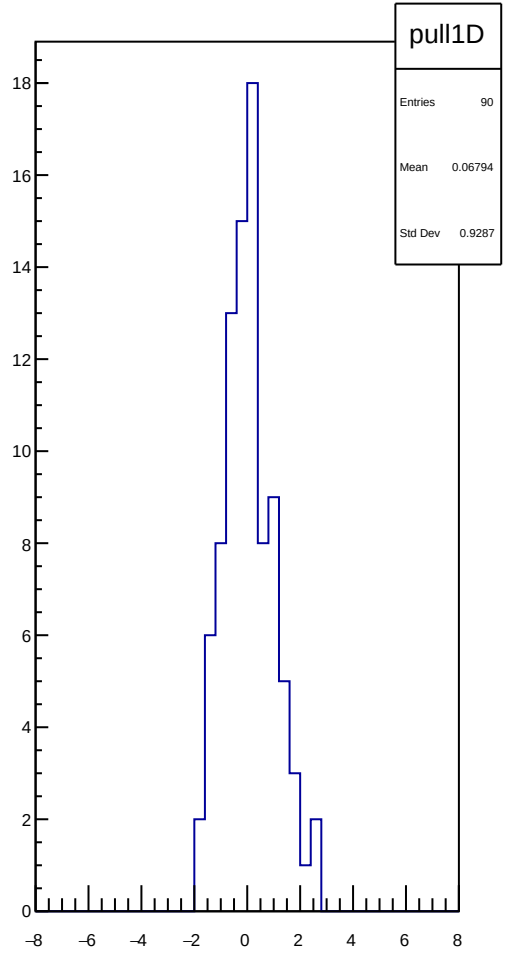

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.09 / 89
p0 0.03953 ± 0.03463
pull
Entries 90
Mean −30.65
Std Dev 0
pull1D
Entries 90
Mean 0.006015
Std Dev 0.9195

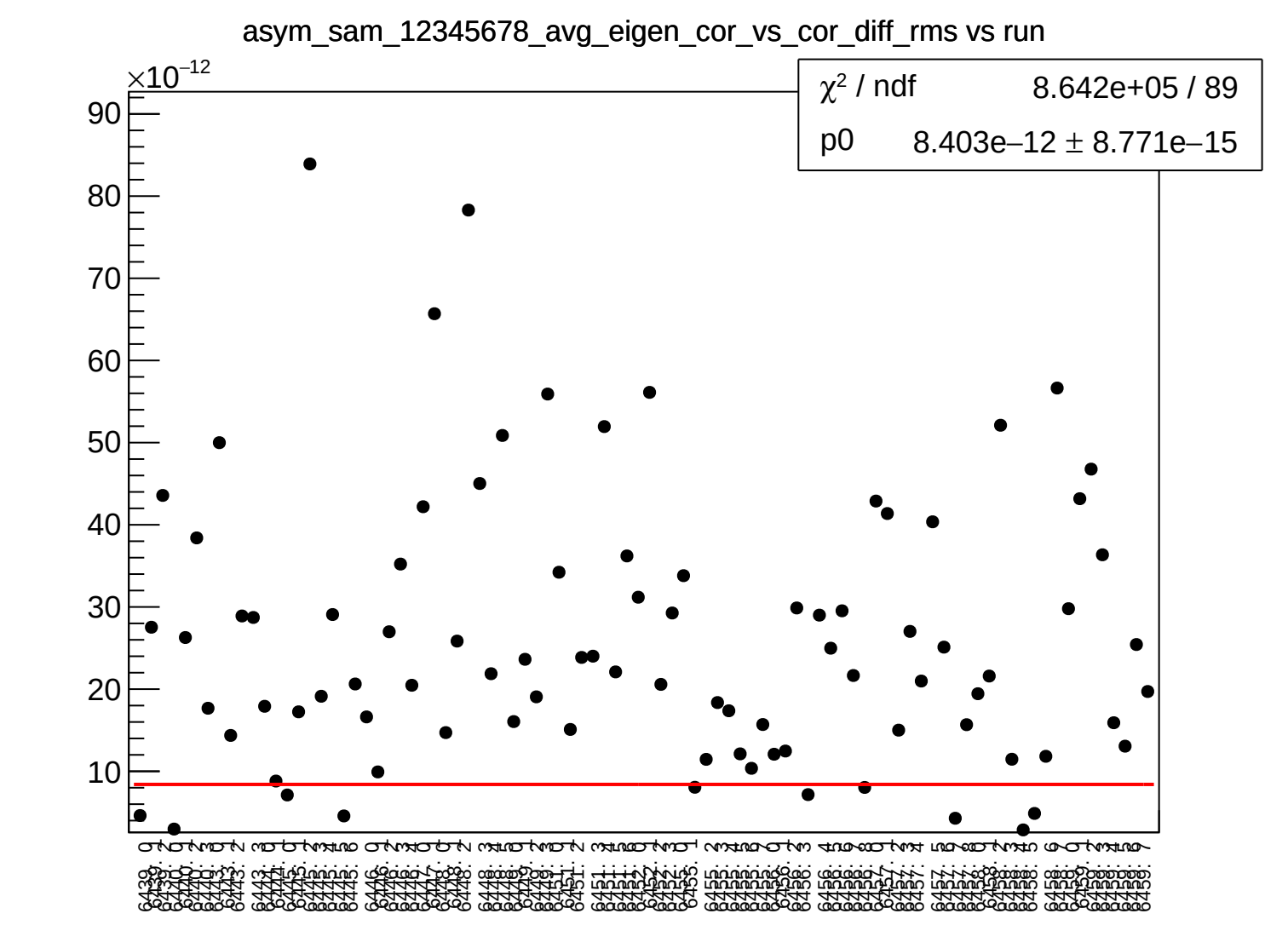

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.909e+04 / 89
p0 32.05 ± 0.02449
180
160
140
120
100
80
60
40
20

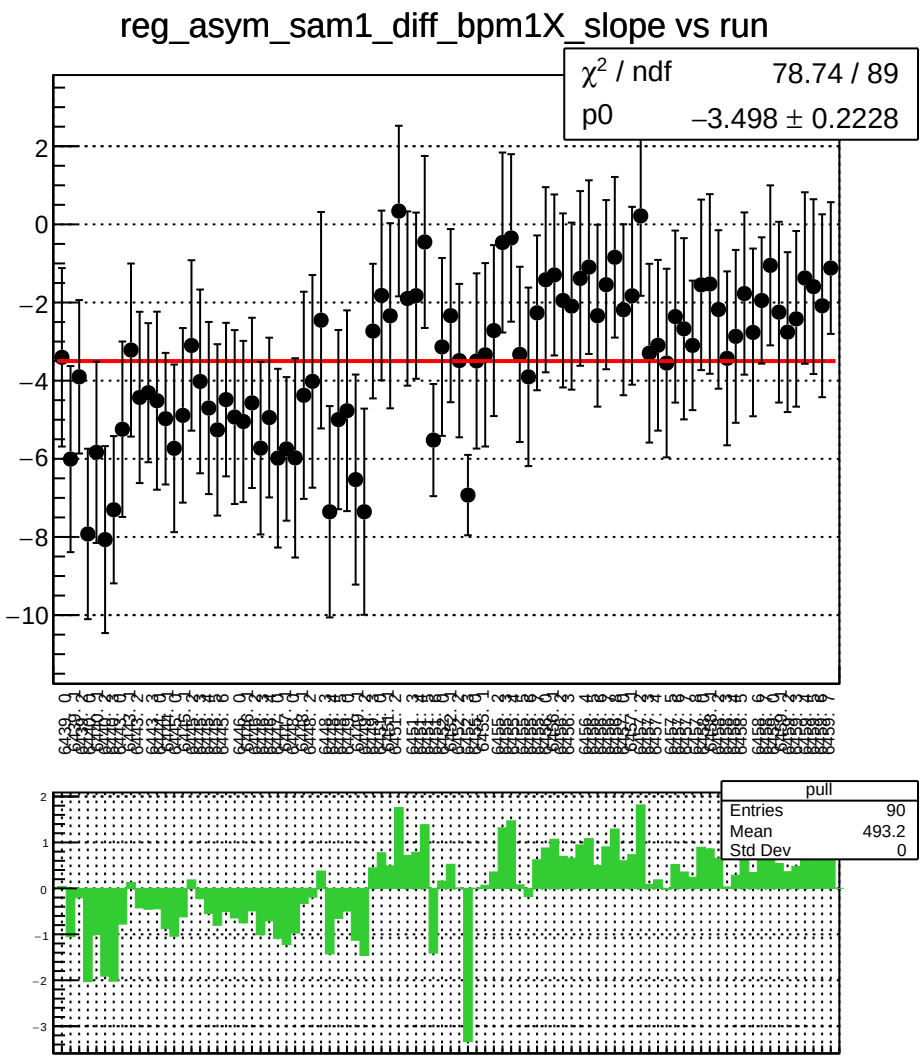

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.09 / 89
p0 0.03953 ± 0.03463
pull
Entries 90
Mean −30.65
Std Dev 0
pull1D
Entries 90
Mean 0.006015
Std Dev 0.9195

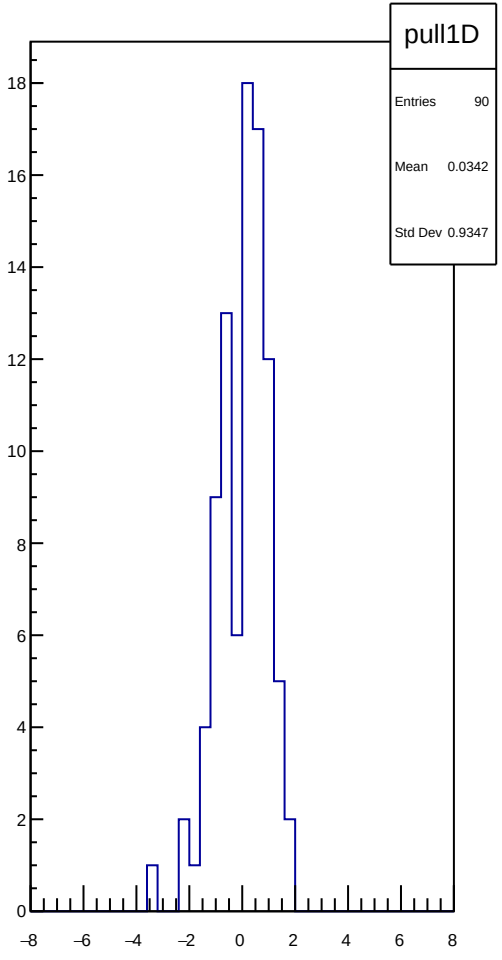

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.909e+04 / 89
p0 32.05 ± 0.02449
180
160
140
120
100
80
60
40
20

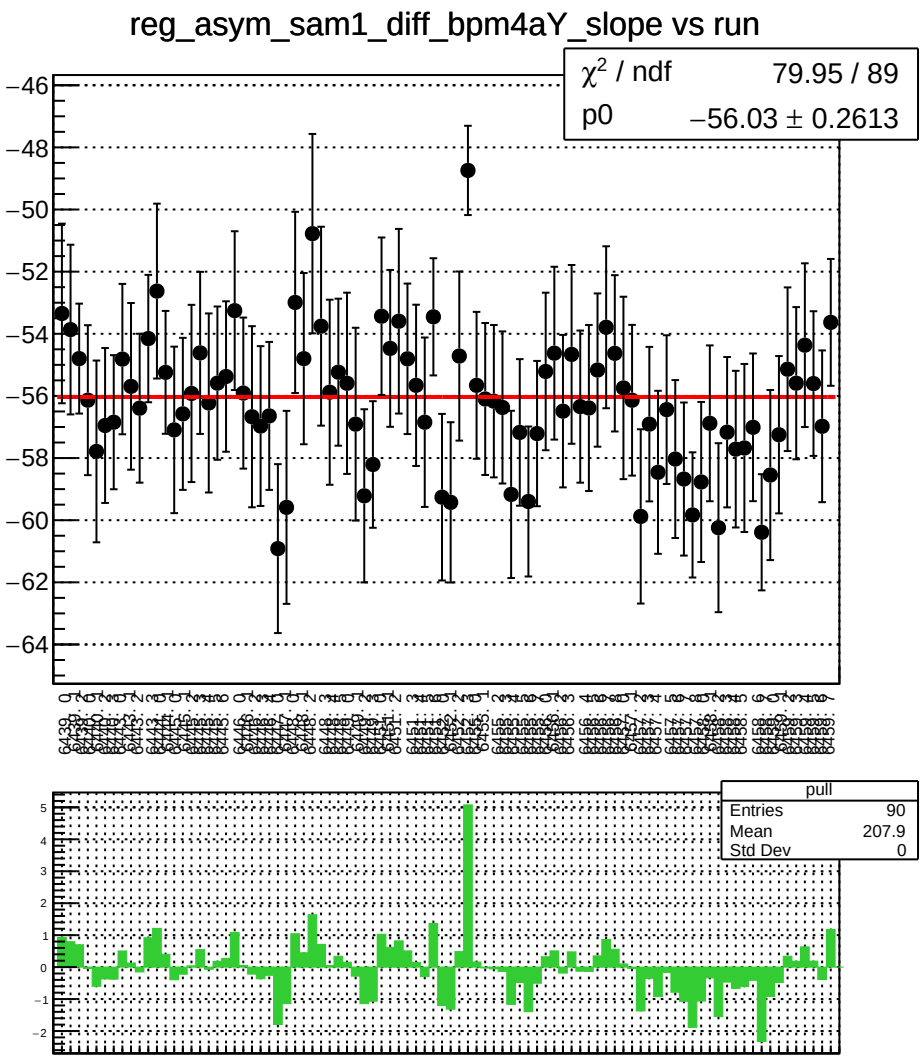

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.03 / 89
p0 2.942e−15 ± 1.24e−14
pull
Entries 90
Mean 12.71
Std Dev 0

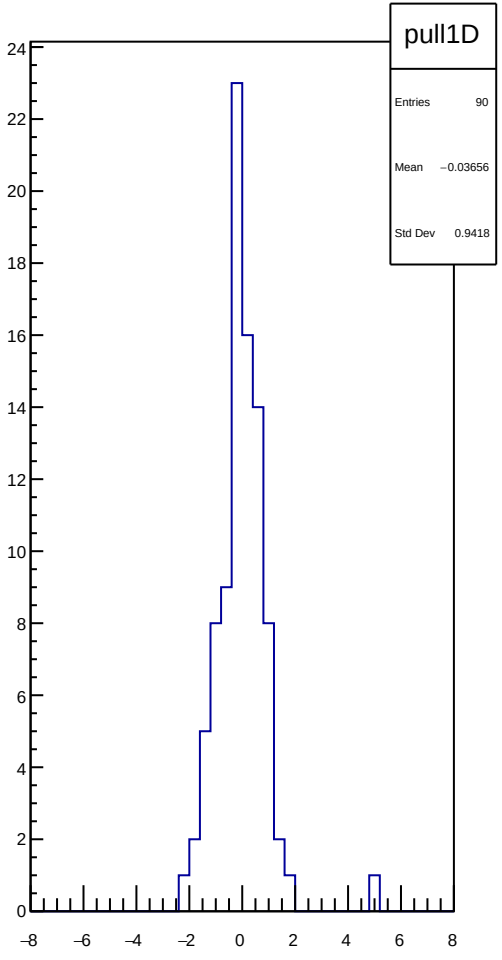

pull1D
Entries 90
Mean 0.06794
Std Dev 0.9287

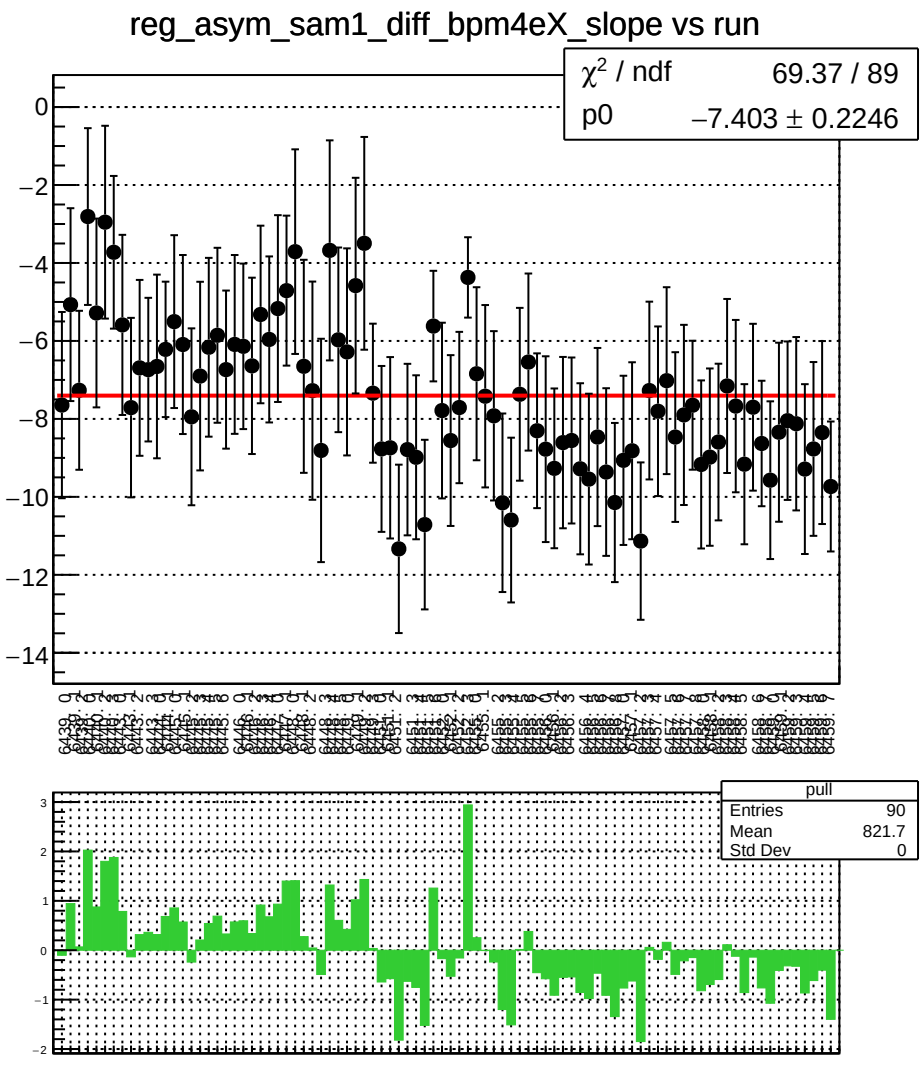

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 8.642e+05 / 89
p0 8.403e−12 ± 8.771e−15
90
80
70
60
50
40
30
20
10

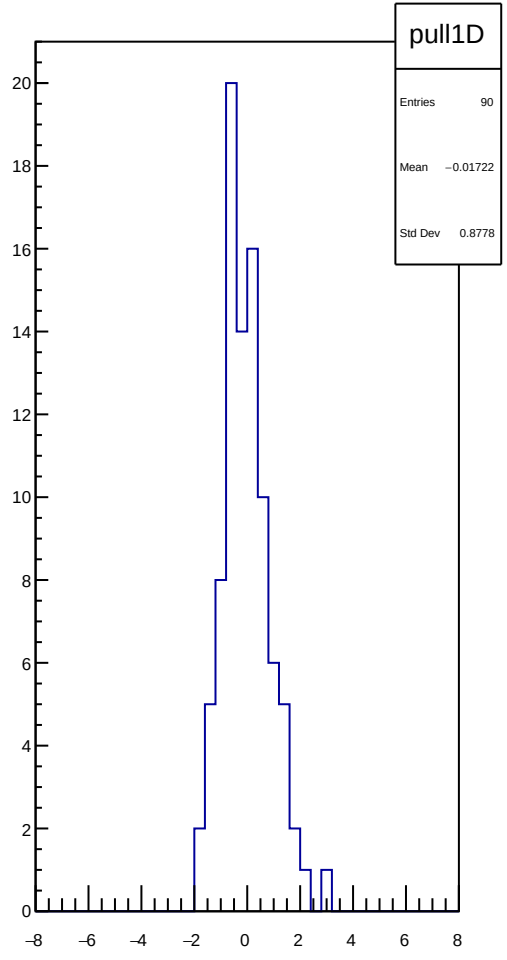

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 78.74 / 89
p0 −3.498 ± 0.2228
pull
Entries 90
Mean 493.2
Std Dev 0

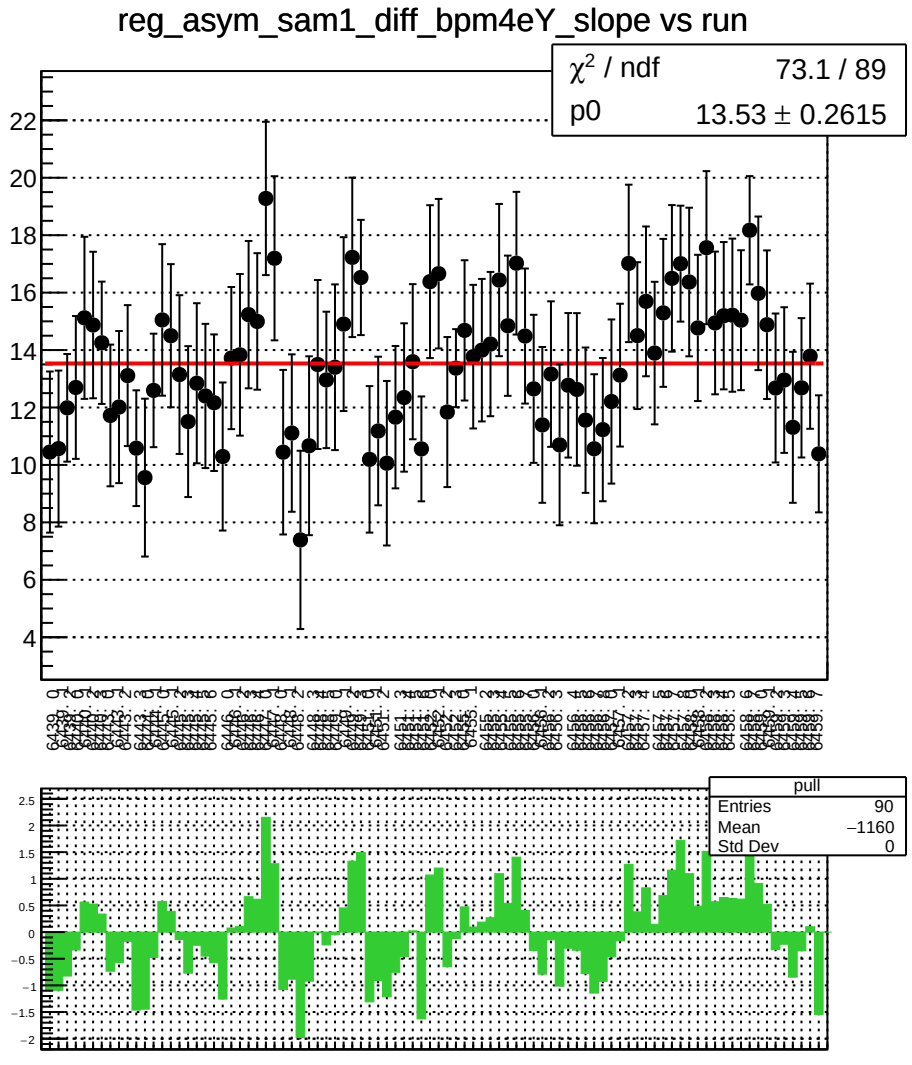

pull1D
Entries 90
Mean 0.0342
Std Dev 0.9347

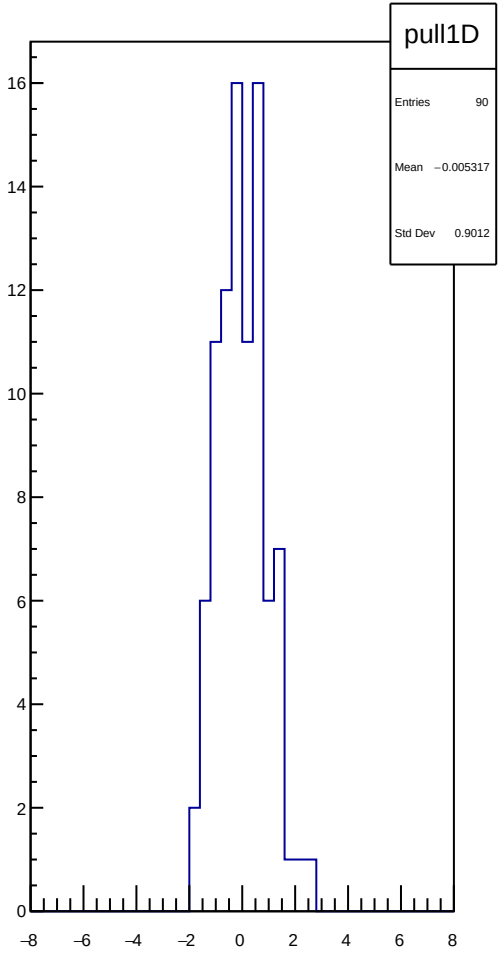

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 79.95 / 89
p0 −56.03 ± 0.2613
pull
Entries 90
Mean 207.9
Std Dev 0

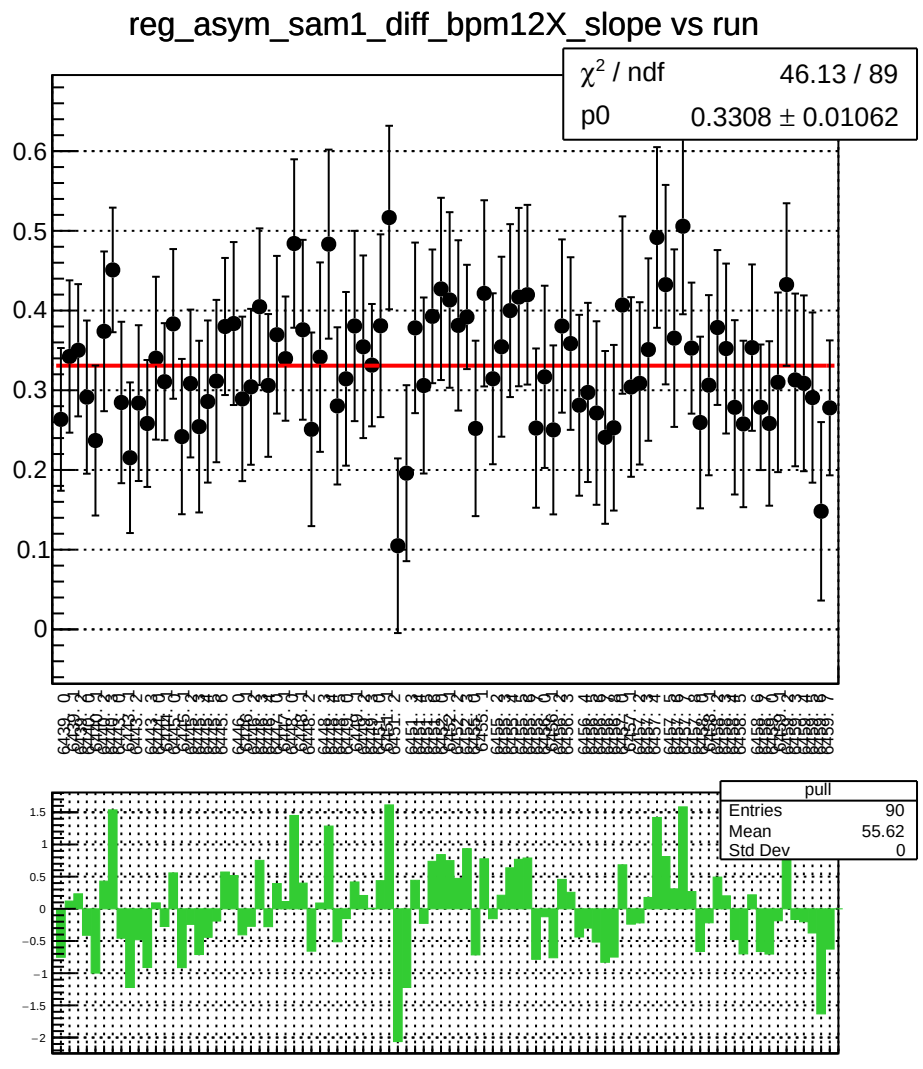

pull1D
Entries 90
Mean −0.03656
Std Dev 0.9418

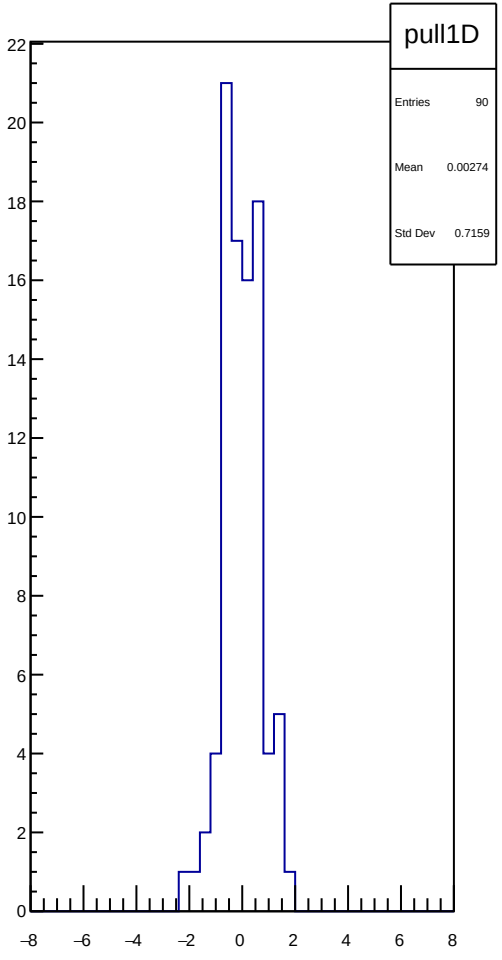

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 69.37 / 89
p0 −7.403 ± 0.2246
pull
Entries 90
Mean 821.7
Std Dev 0

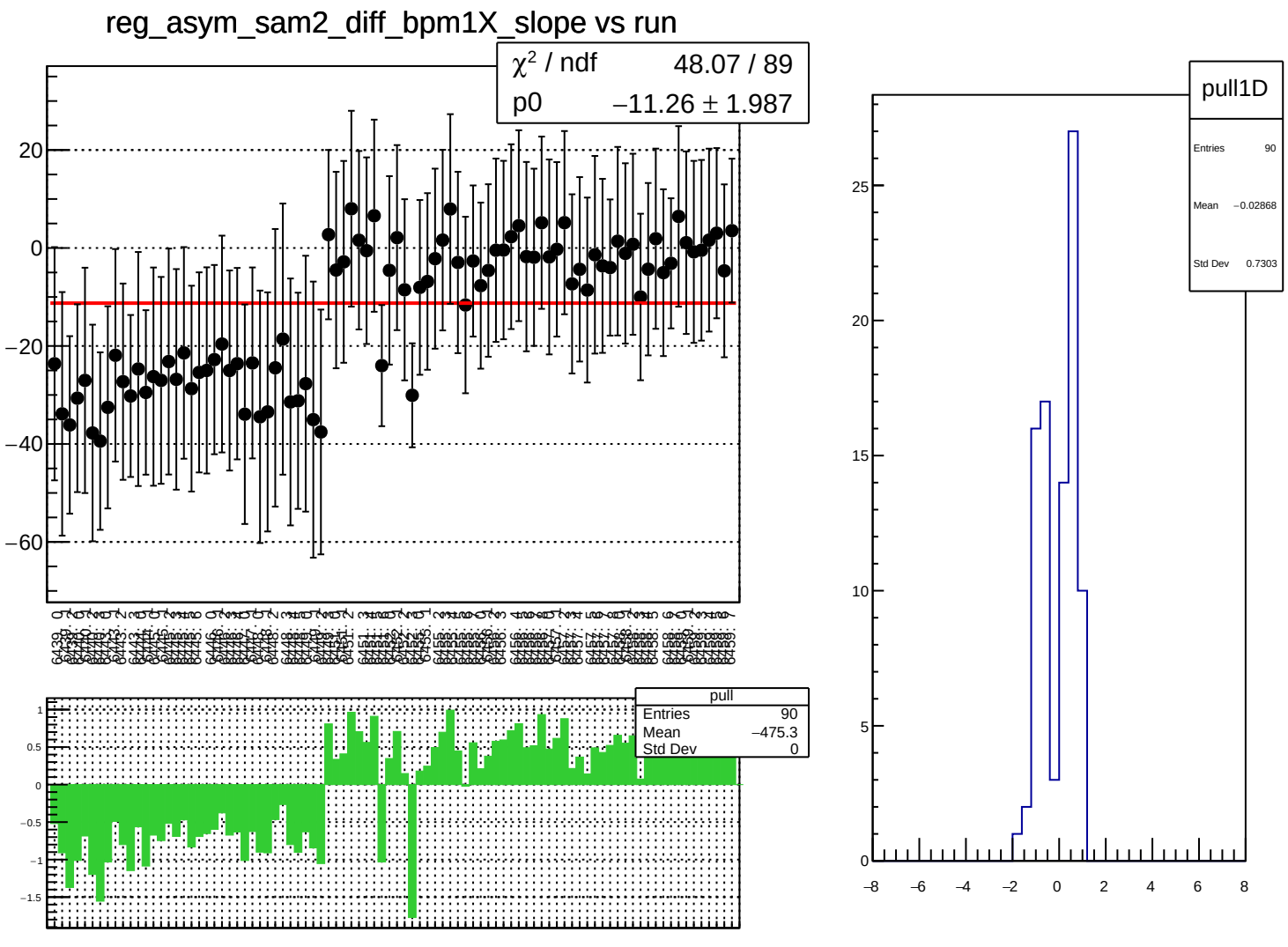

pull1D
Entries 90
Mean −0.01722
Std Dev 0.8778

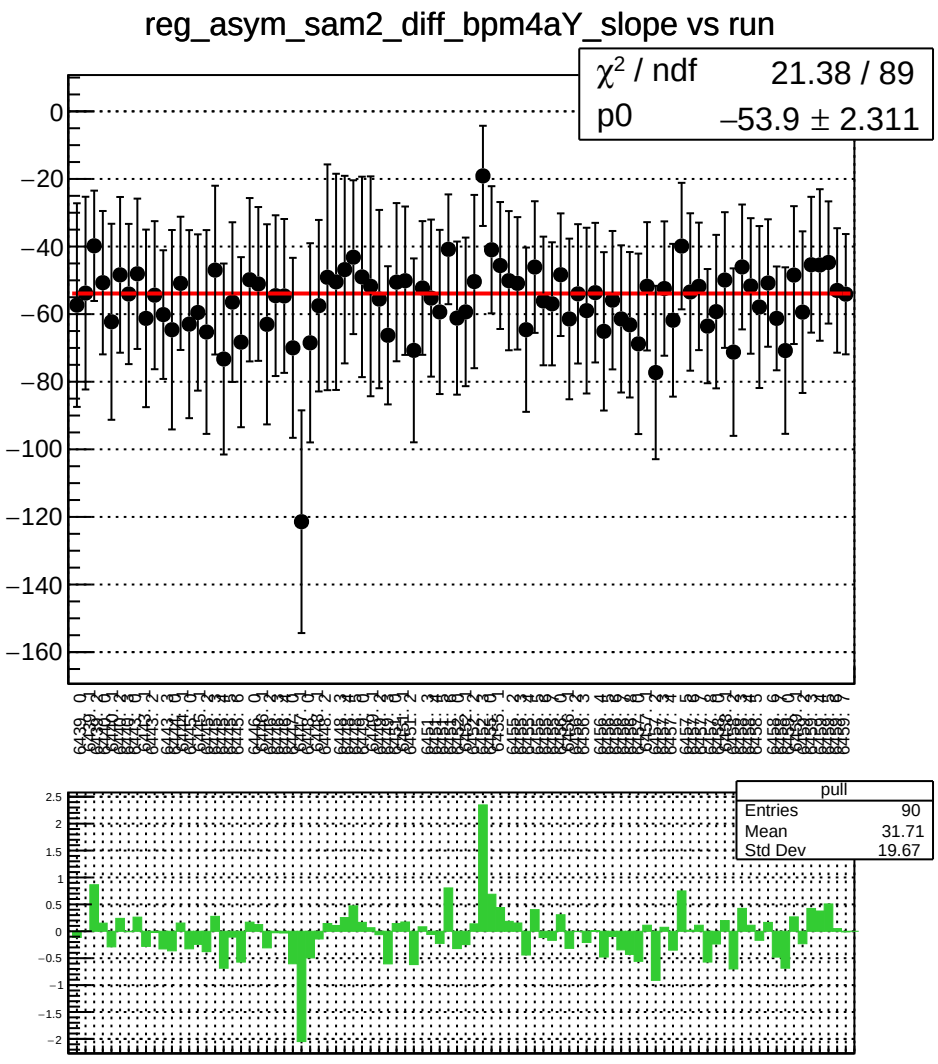

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 73.1 / 89
p0 13.53 ± 0.2615
pull
Entries 90
Mean −1160
Std Dev 0

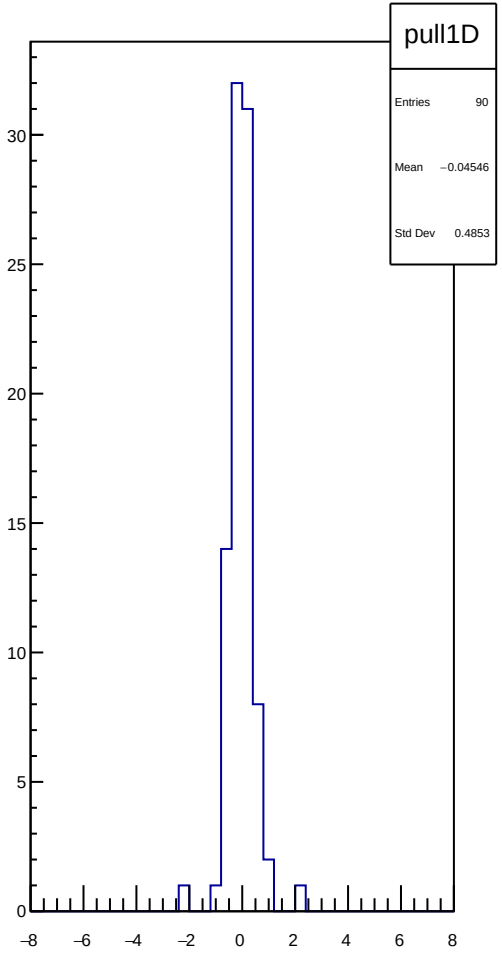

pull1D
Entries 90
Mean −0.005317
Std Dev 0.9012

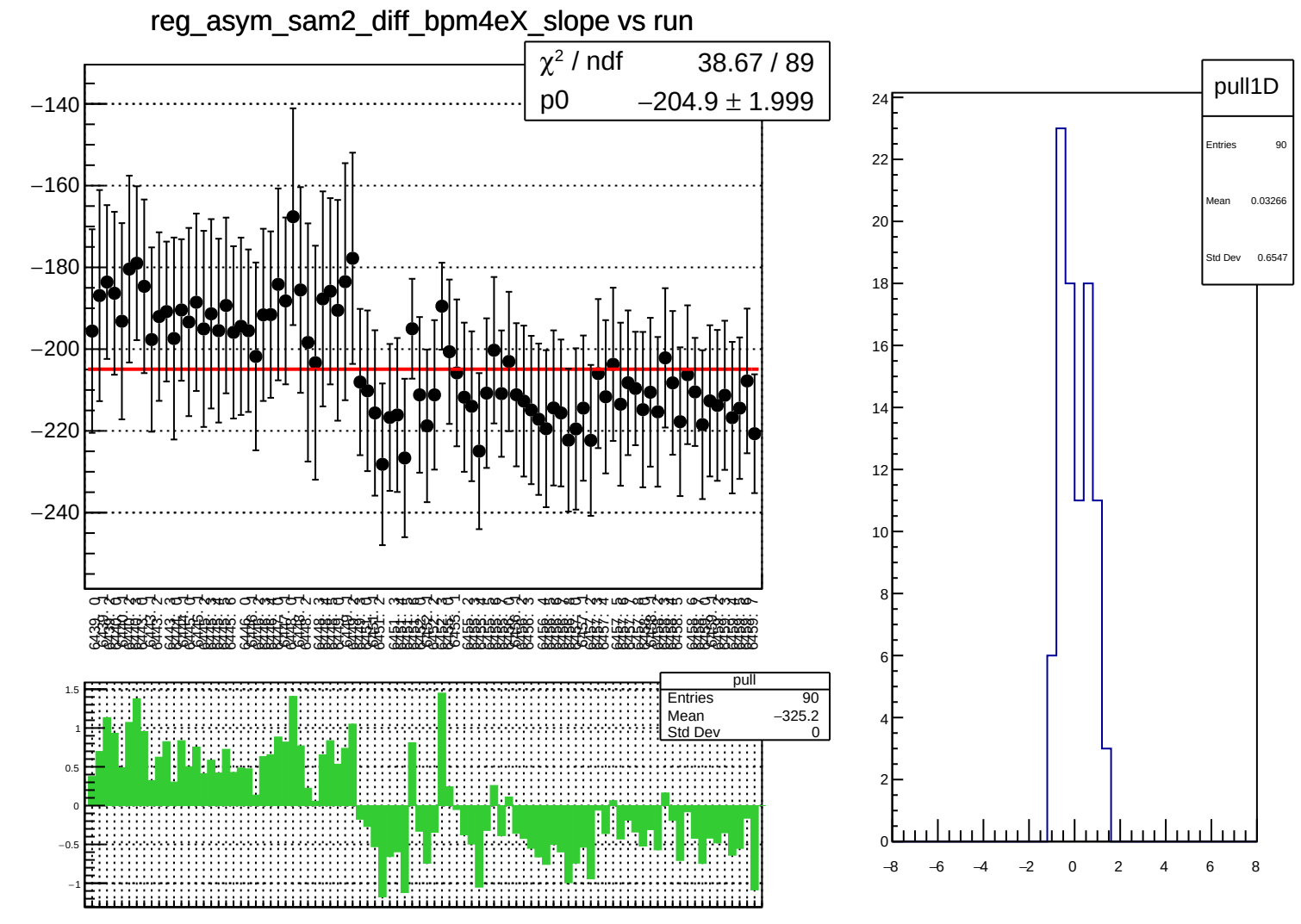

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 46.13 / 89
p0 0.3308 ± 0.01062
pull
Entries 90
Mean 55.62
Std Dev 0

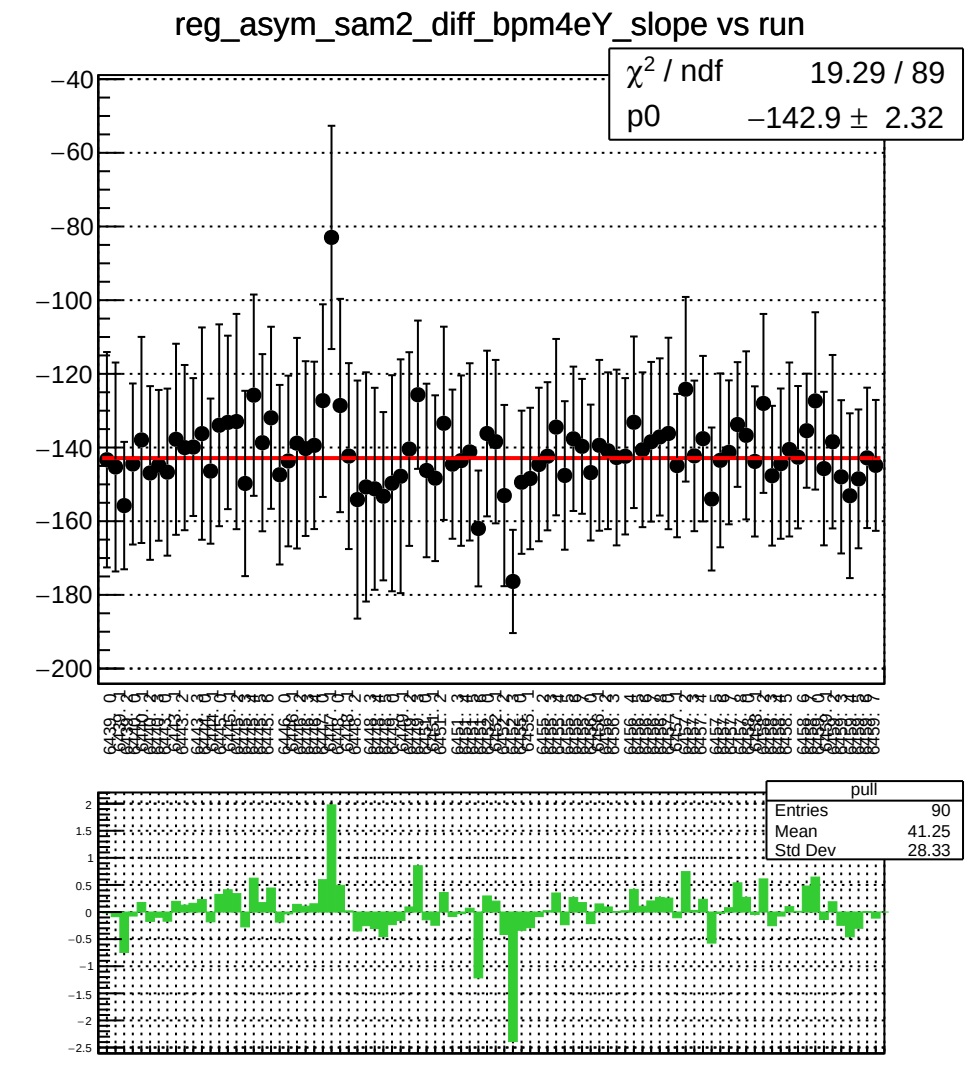

pull1D
Entries 90
Mean 0.00274
Std Dev 0.7159

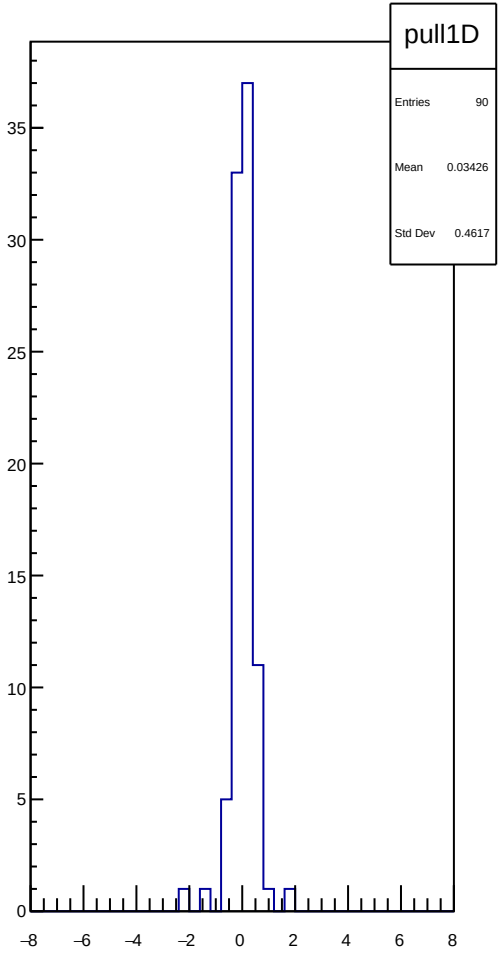

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 48.07 / 89
p0 −11.26 ± 1.987
20
0
−20
−40
−60
pull
Entries 90
Mean −475.3
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 90
Mean −0.02868
Std Dev 0.7303
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

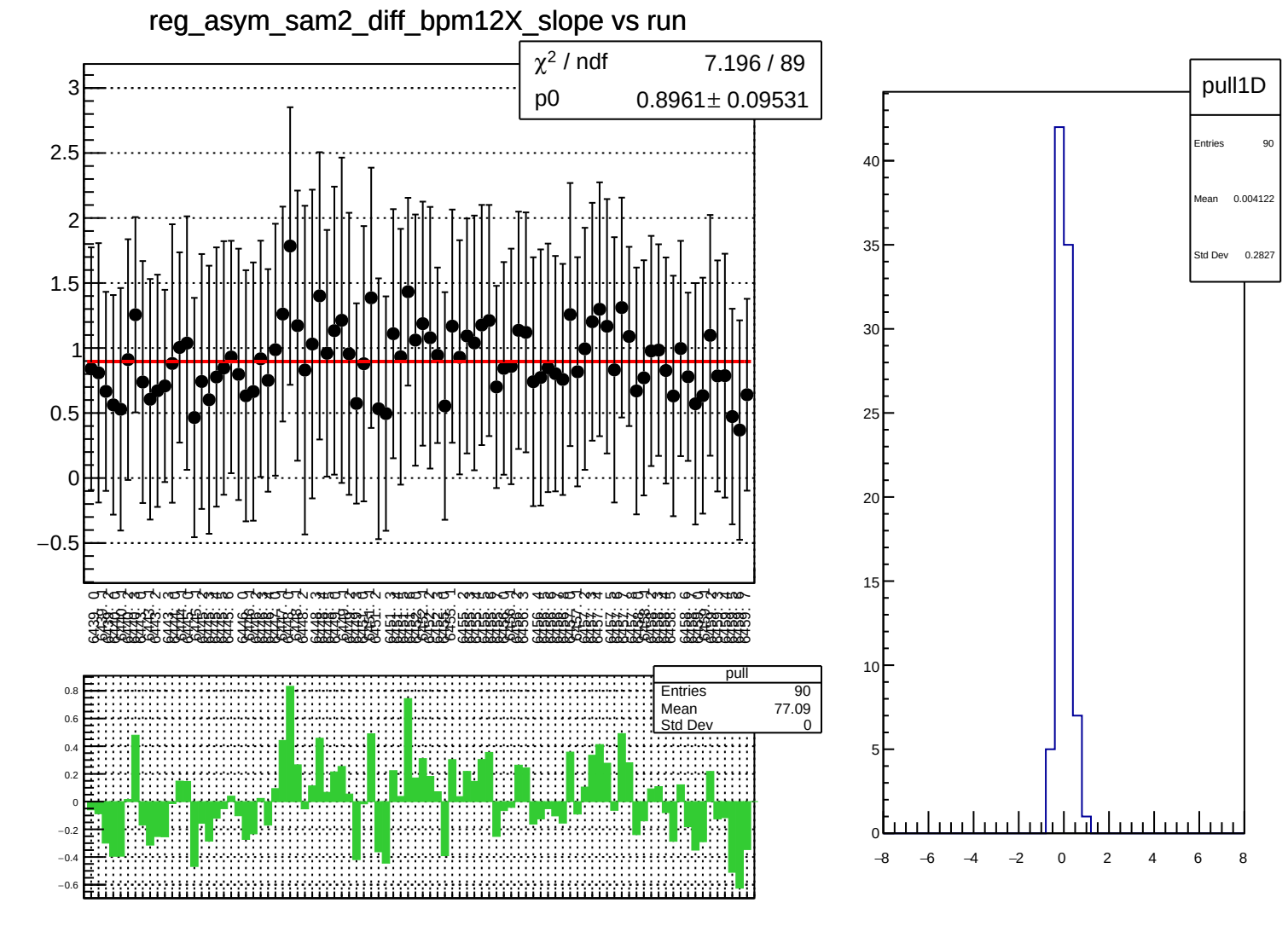

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 21.38 / 89
p0 −53.9 ± 2.311
pull
Entries 90
Mean 31.71
Std Dev 19.67

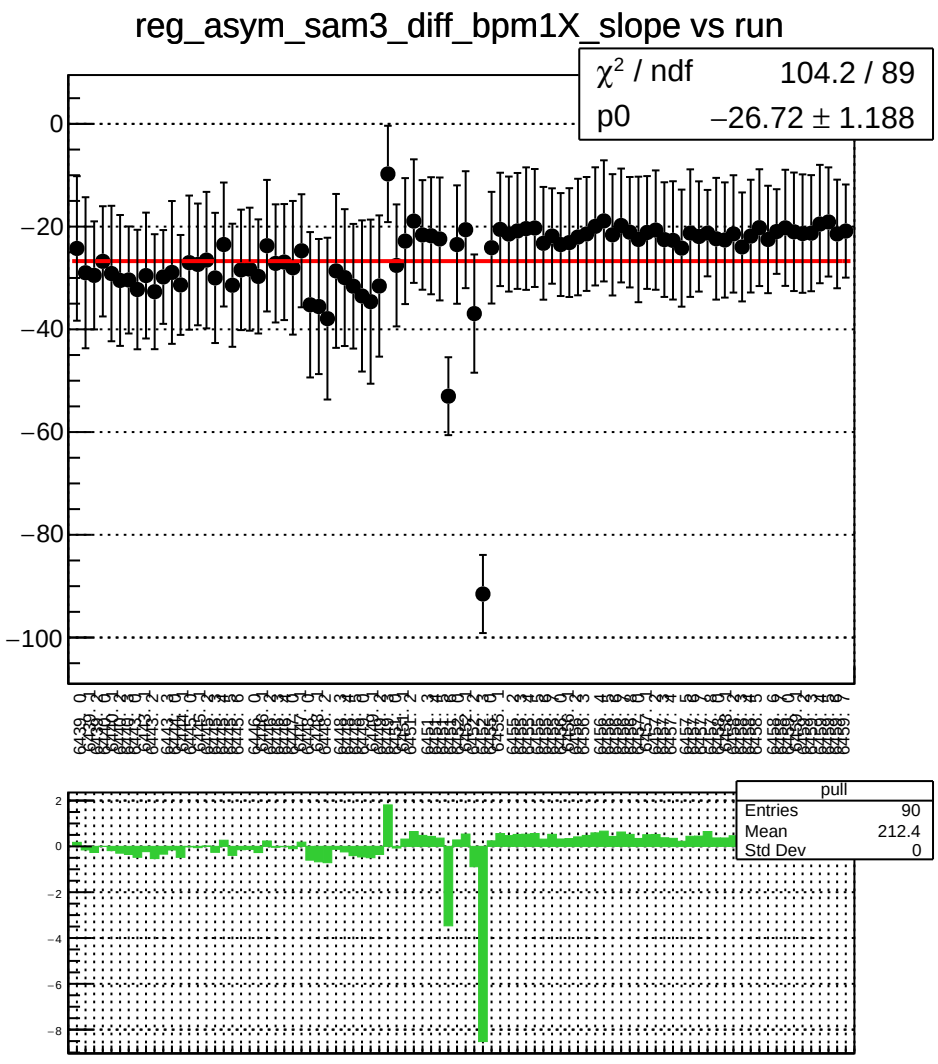

pull1D
Entries 90
Mean −0.04546
Std Dev 0.4853

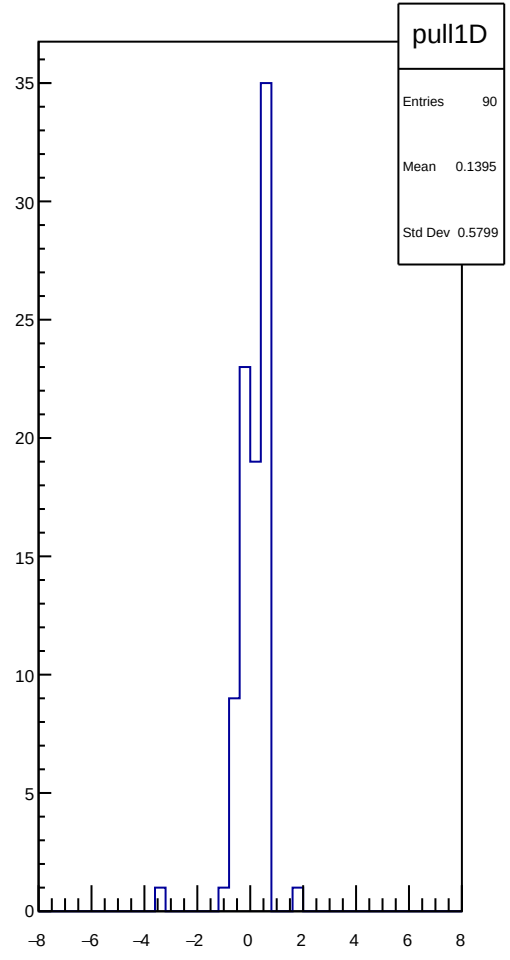

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 38.67 / 89
p0 −204.9 ± 1.999
−140
−160
−180
−200
−220
−240
pull
Entries 90
Mean −325.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 90
Mean 0.03266
Std Dev 0.6547
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

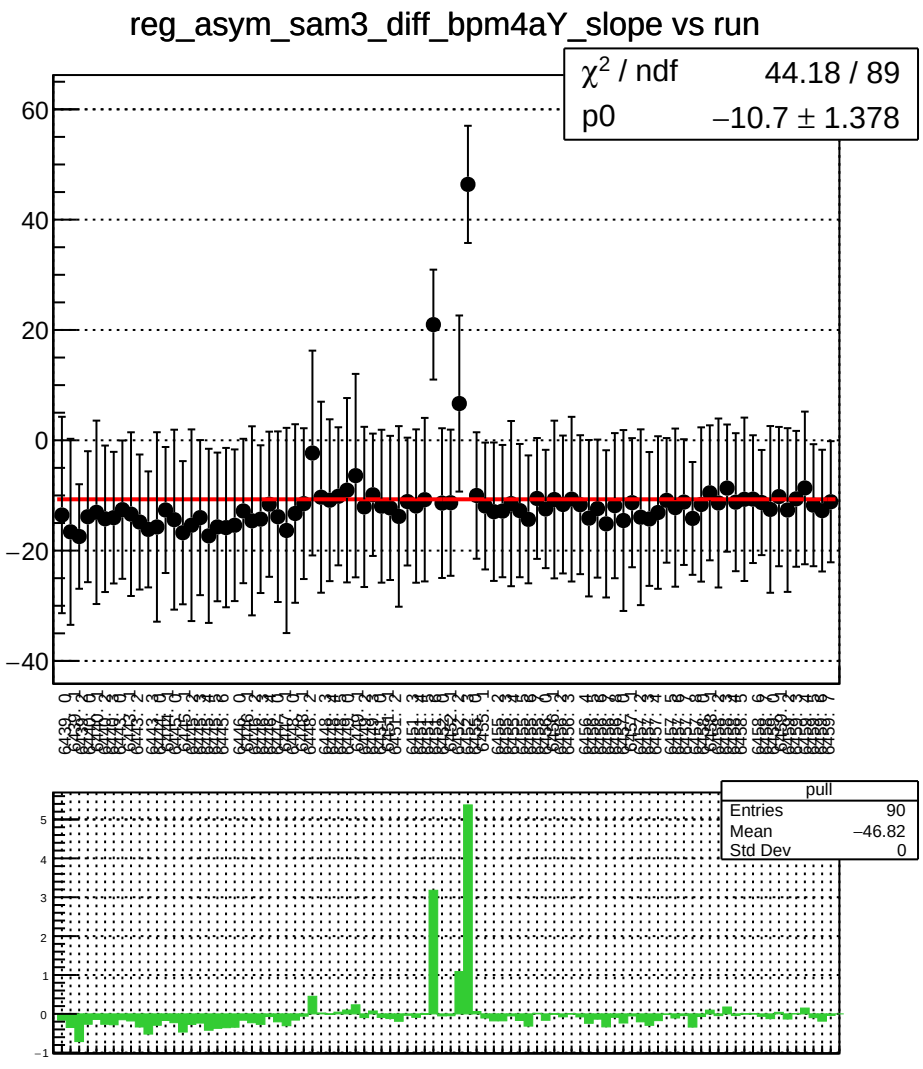

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 19.29 / 89
p0 −142.9 ± 2.32
pull
Entries 90
Mean 41.25
Std Dev 28.33

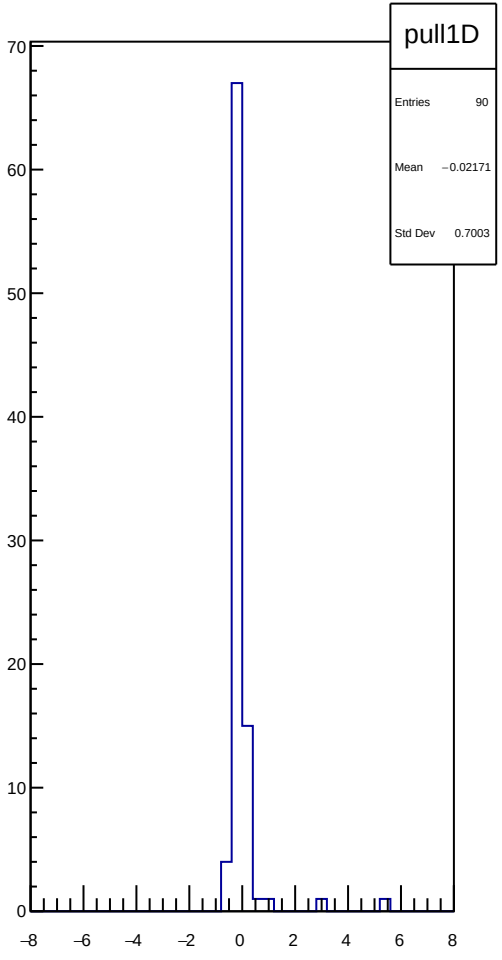

pull1D
Entries 90
Mean 0.03426
Std Dev 0.4617

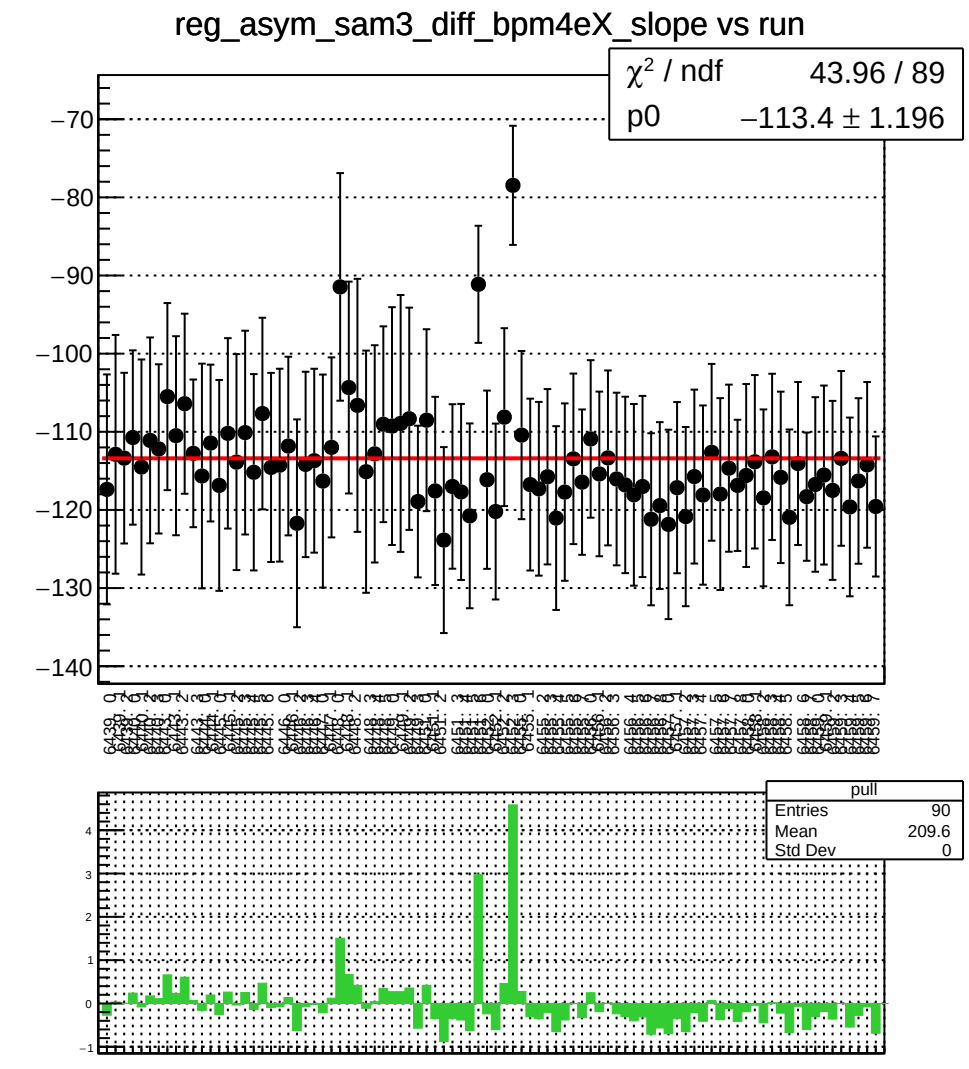

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 7.196 / 89
p0 0.8961± 0.09531
pull
Entries 90
Mean 77.09
Std Dev 0
pull1D
Entries 90
Mean 0.004122
Std Dev 0.2827

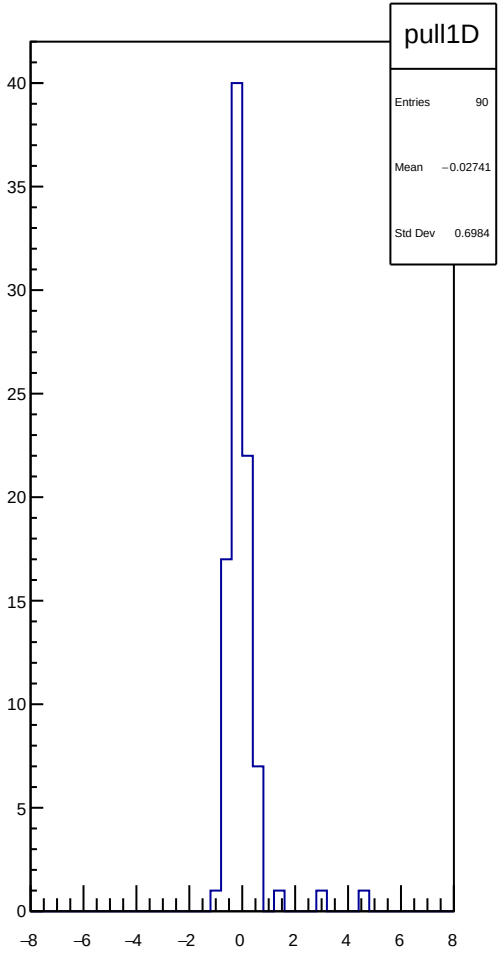

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 104.2 / 89
p0 −26.72 ± 1.188
pull
Entries 90
Mean 212.4
Std Dev 0

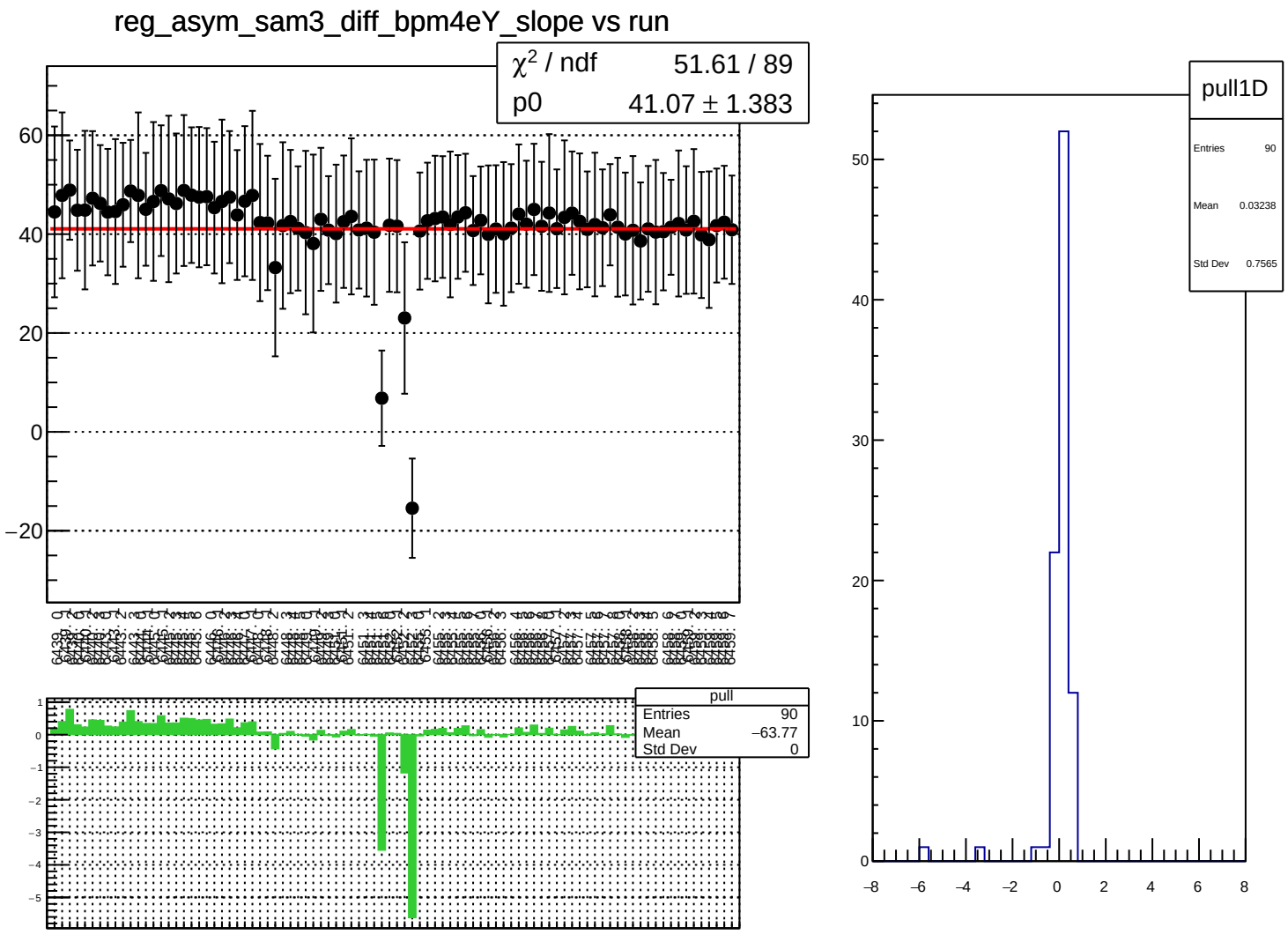

pull1D
Entries 90
Mean 0.1395
Std Dev 0.5799

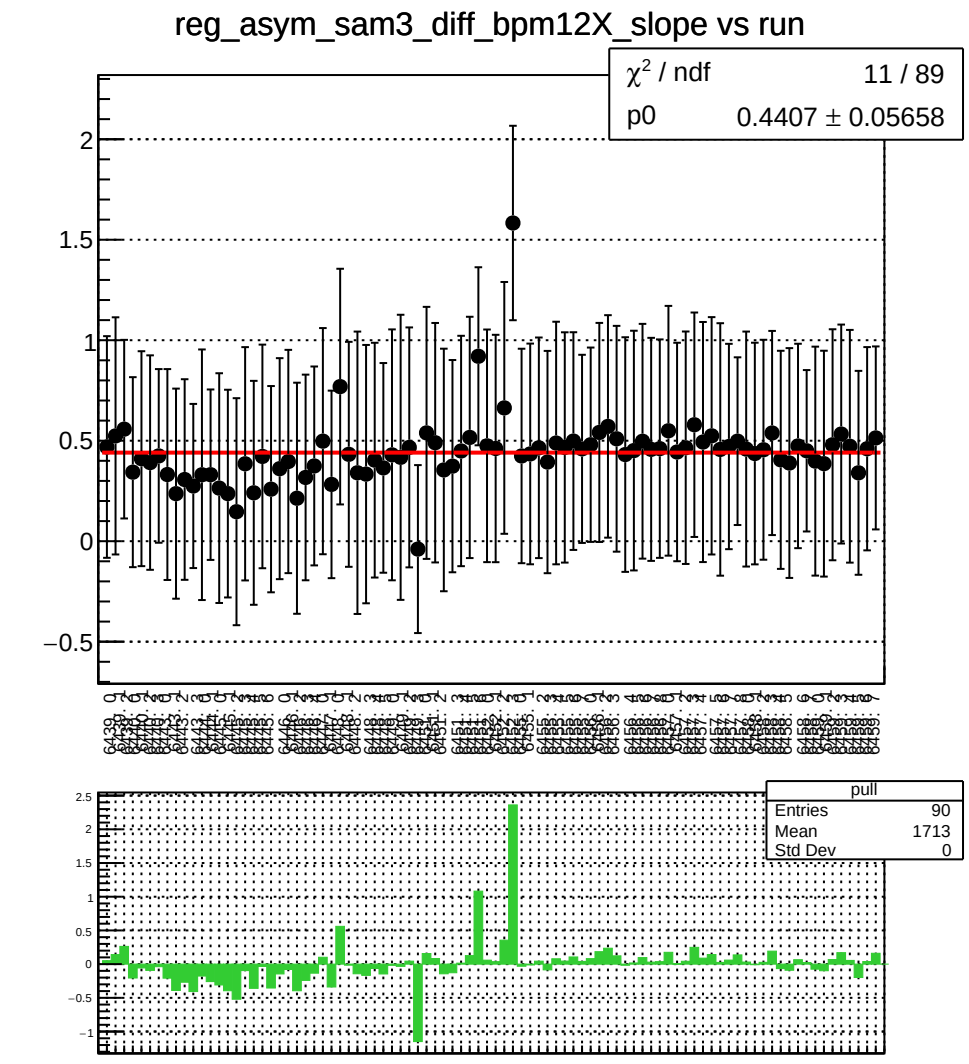

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 44.18 / 89
p0 −10.7 ± 1.378
pull
Entries 90
Mean −46.82
Std Dev 0

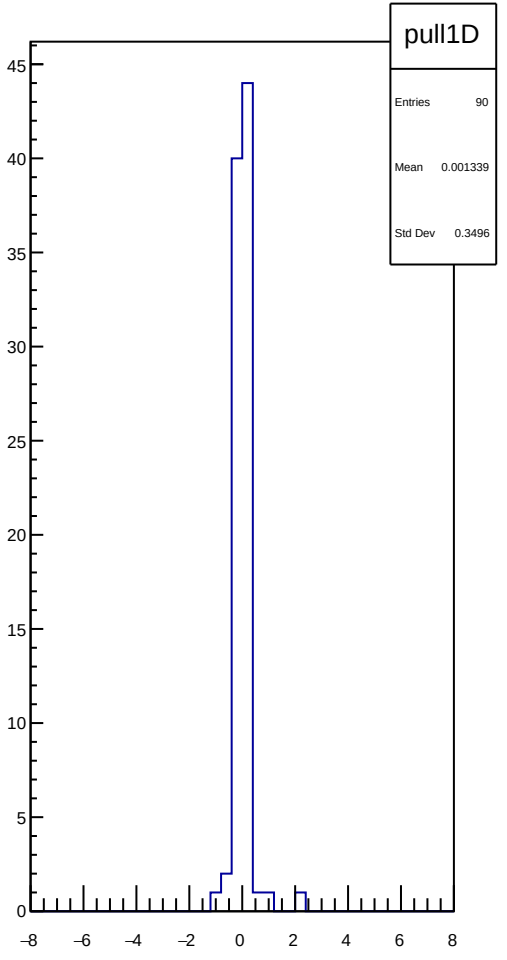

pull1D
Entries 90
Mean −0.02171
Std Dev 0.7003

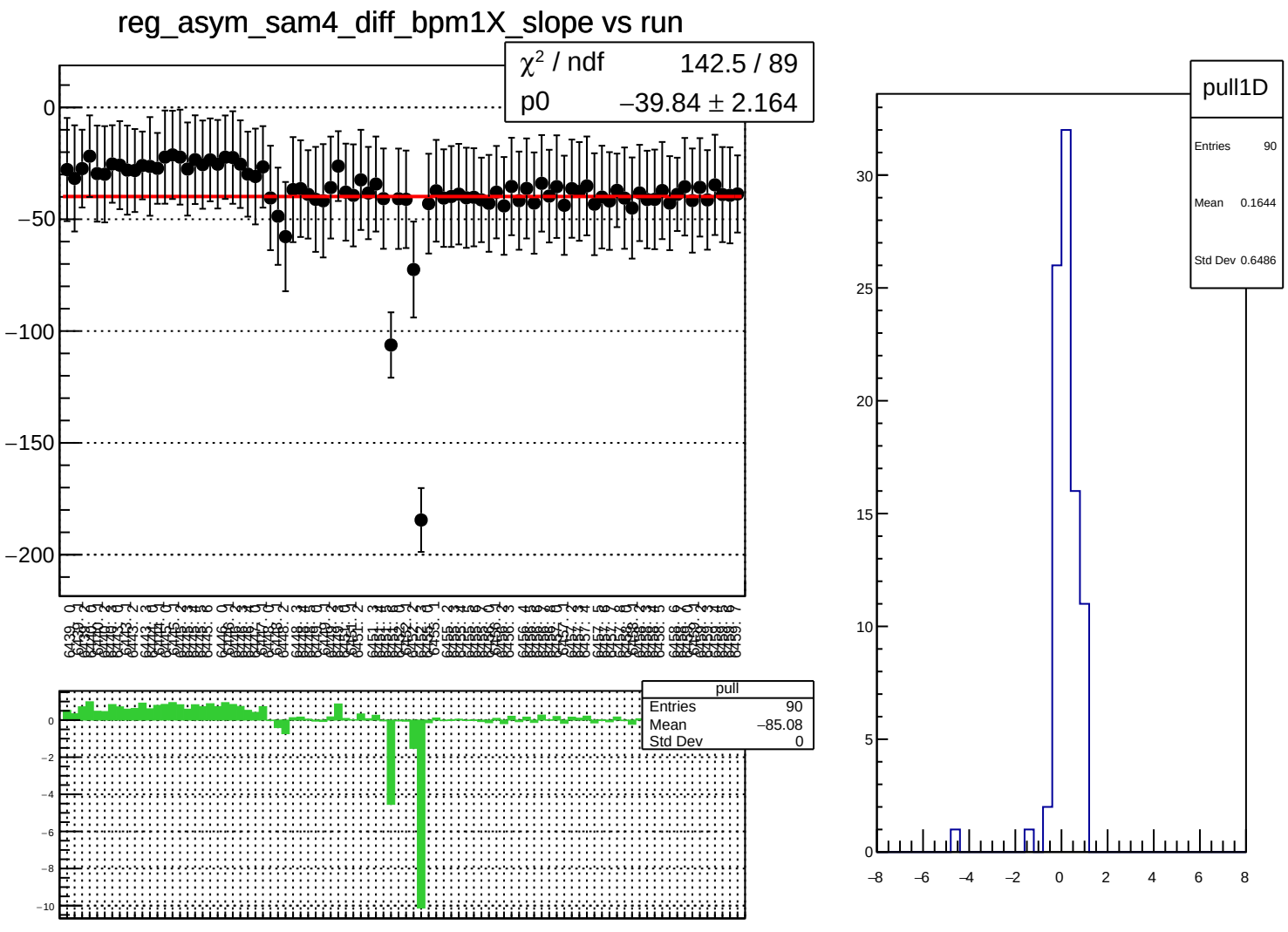

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 43.96 / 89
p0 −113.4 ± 1.196
pull
Entries 90
Mean 209.6
Std Dev 0

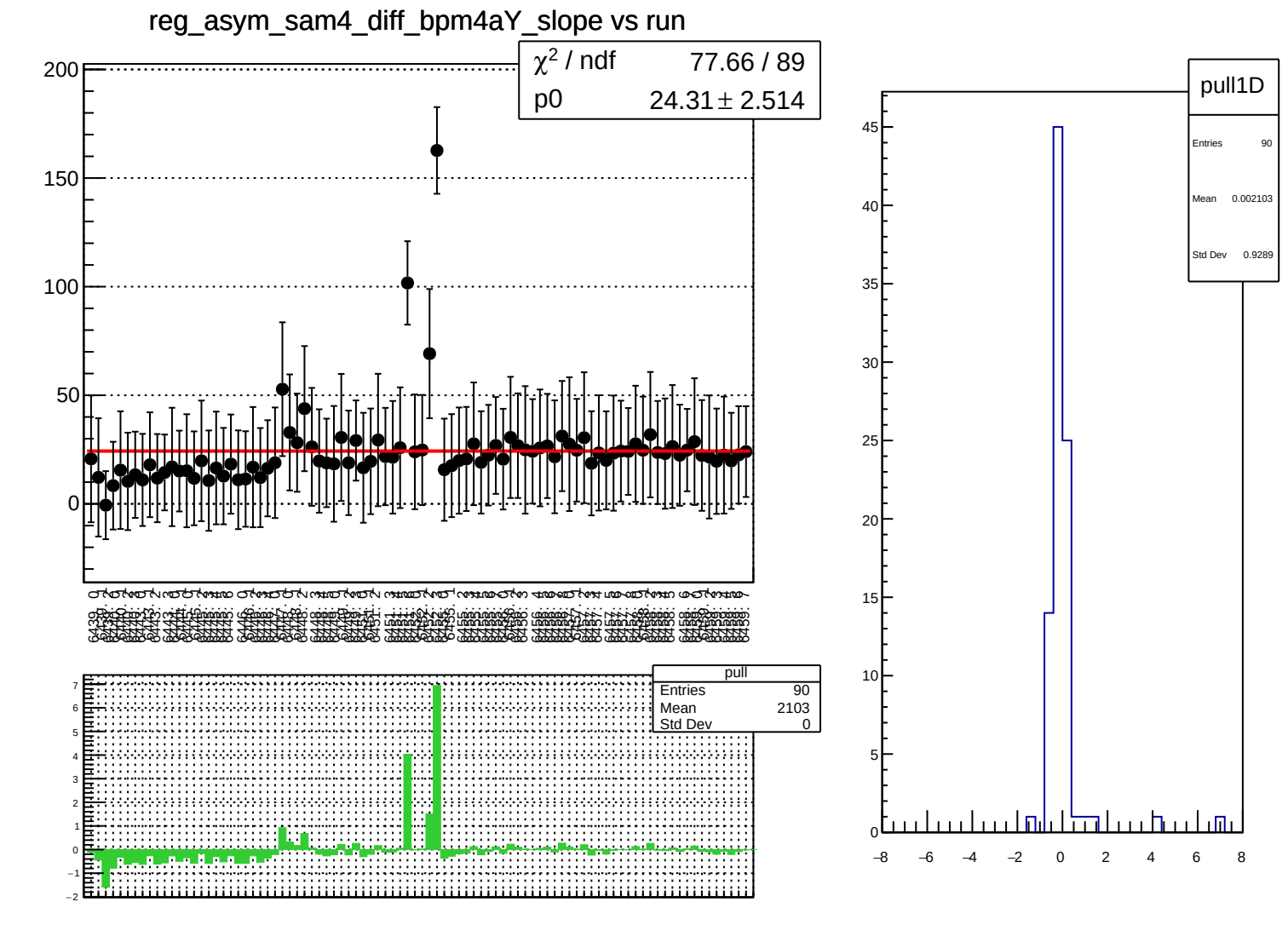

pull1D
Entries 90
Mean −0.02741
Std Dev 0.6984

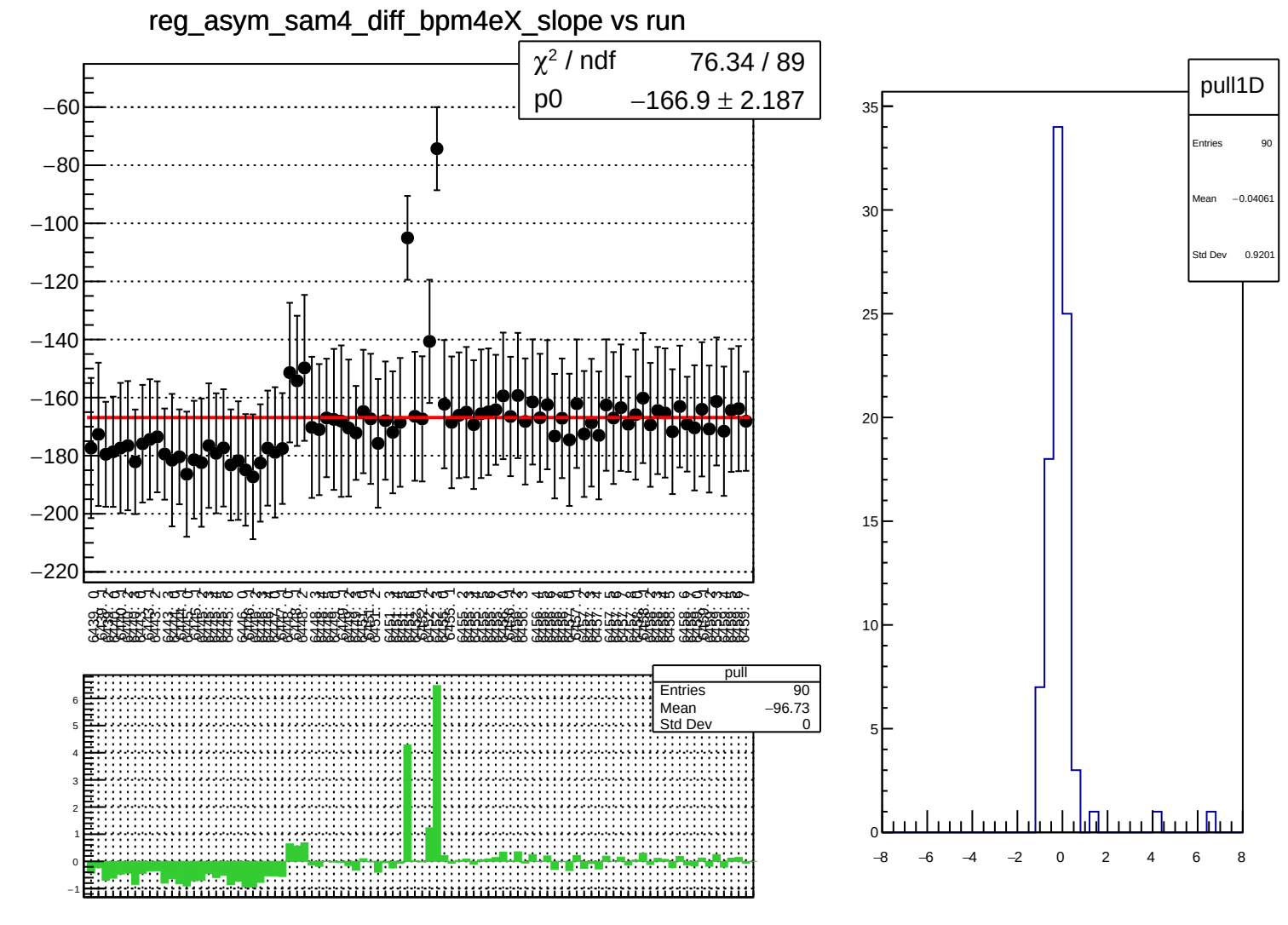

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 51.61 / 89
p0 41.07 ± 1.383
pull
Entries 90
Mean −63.77
Std Dev 0
pull1D
Entries 90
Mean 0.03238
Std Dev 0.7565

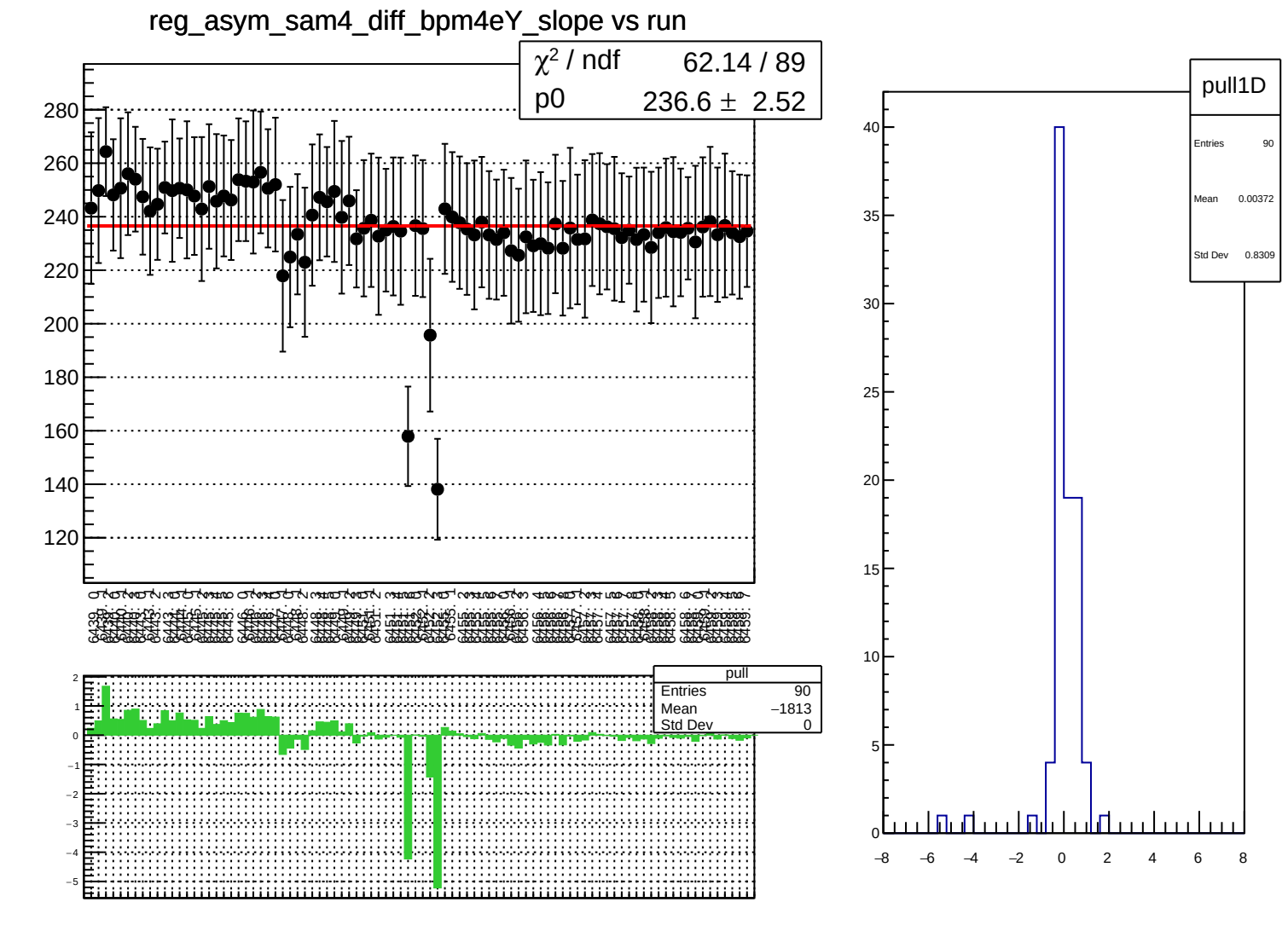

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 11 / 89
p0 0.4407 ± 0.05658
pull
Entries 90
Mean 1713
Std Dev 0

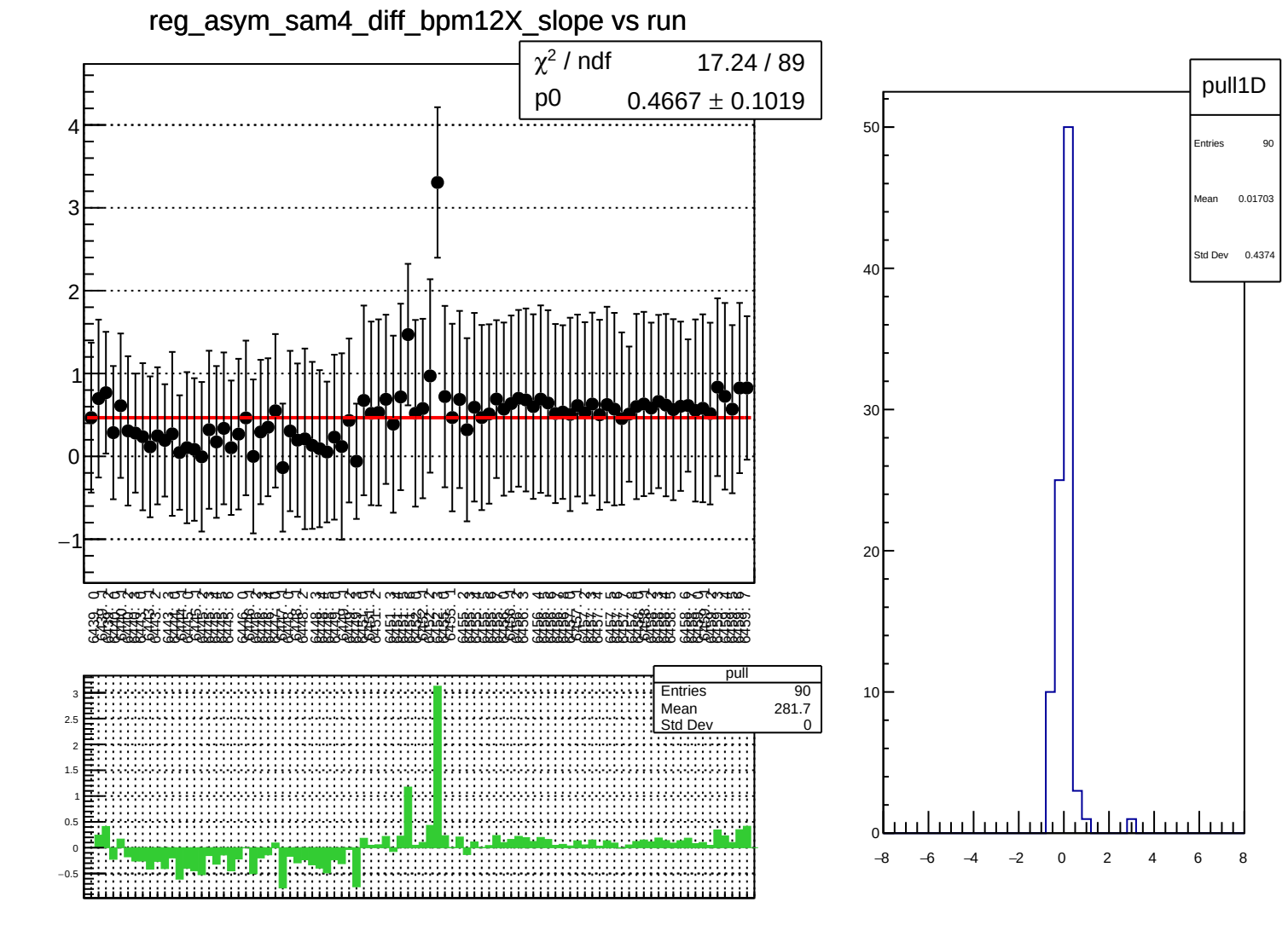

pull1D
Entries 90
Mean 0.001339
Std Dev 0.3496

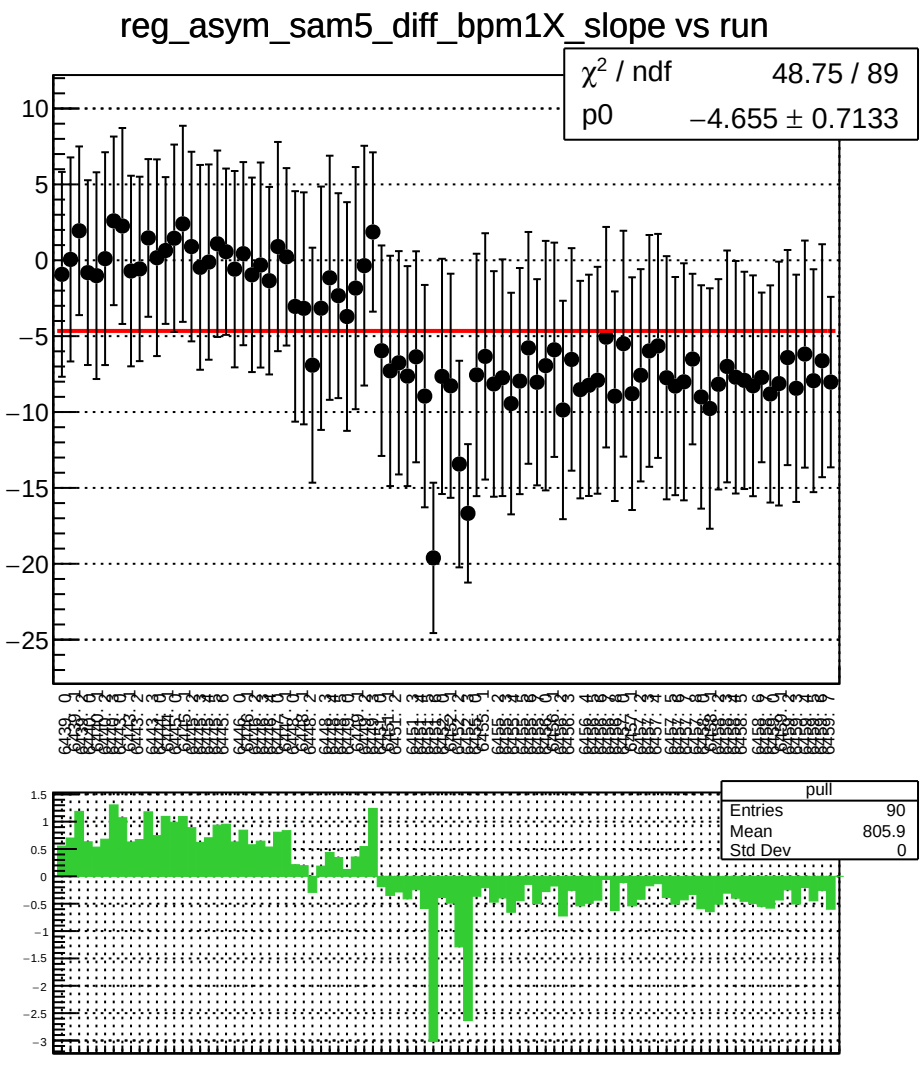

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 142.5 / 89
p0 −39.84 ± 2.164
0
−50
−100
−150
−200
pull
Entries 90
Mean −85.08
Std Dev 0
pull1D
Entries 90
Mean 0.1644
Std Dev 0.6486

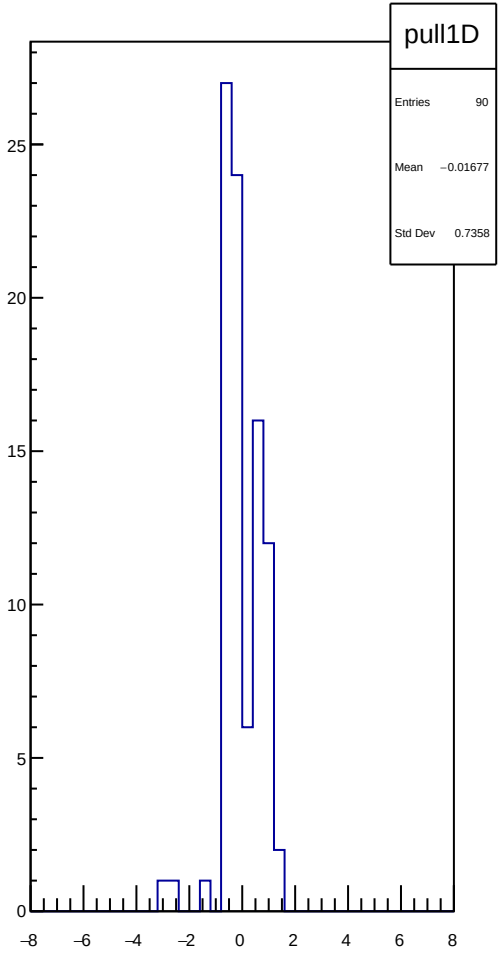

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 77.66 / 89
p0 24.31 ± 2.514
pull
Entries 90
Mean 2103
Std Dev 0
pull1D
Entries 90
Mean 0.002103
Std Dev 0.9289

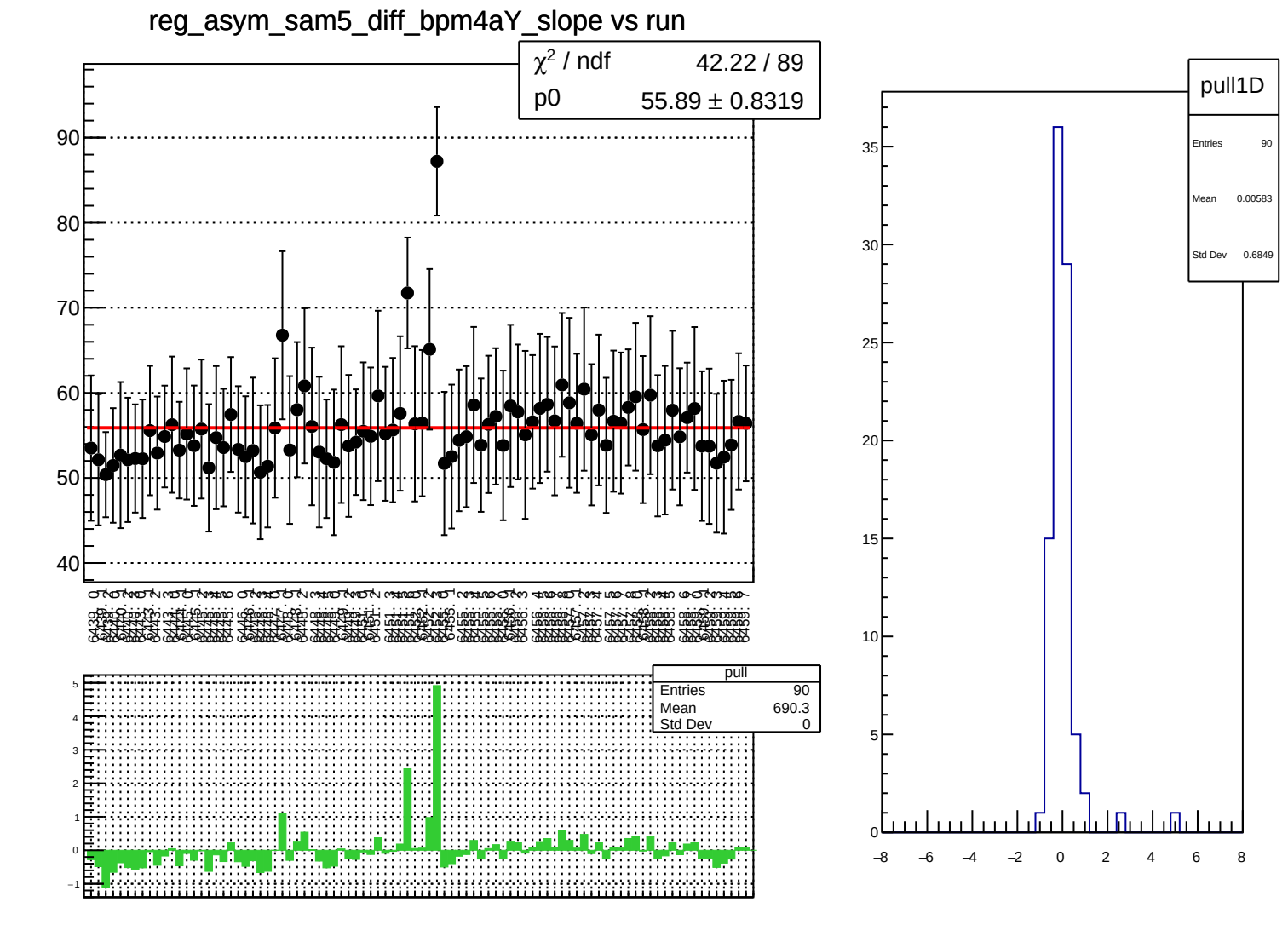

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 76.34 / 89
p0 −166.9 ± 2.187
pull
Entries 90
Mean −96.73
Std Dev 0
pull1D
Entries 90
Mean −0.04061
Std Dev 0.9201

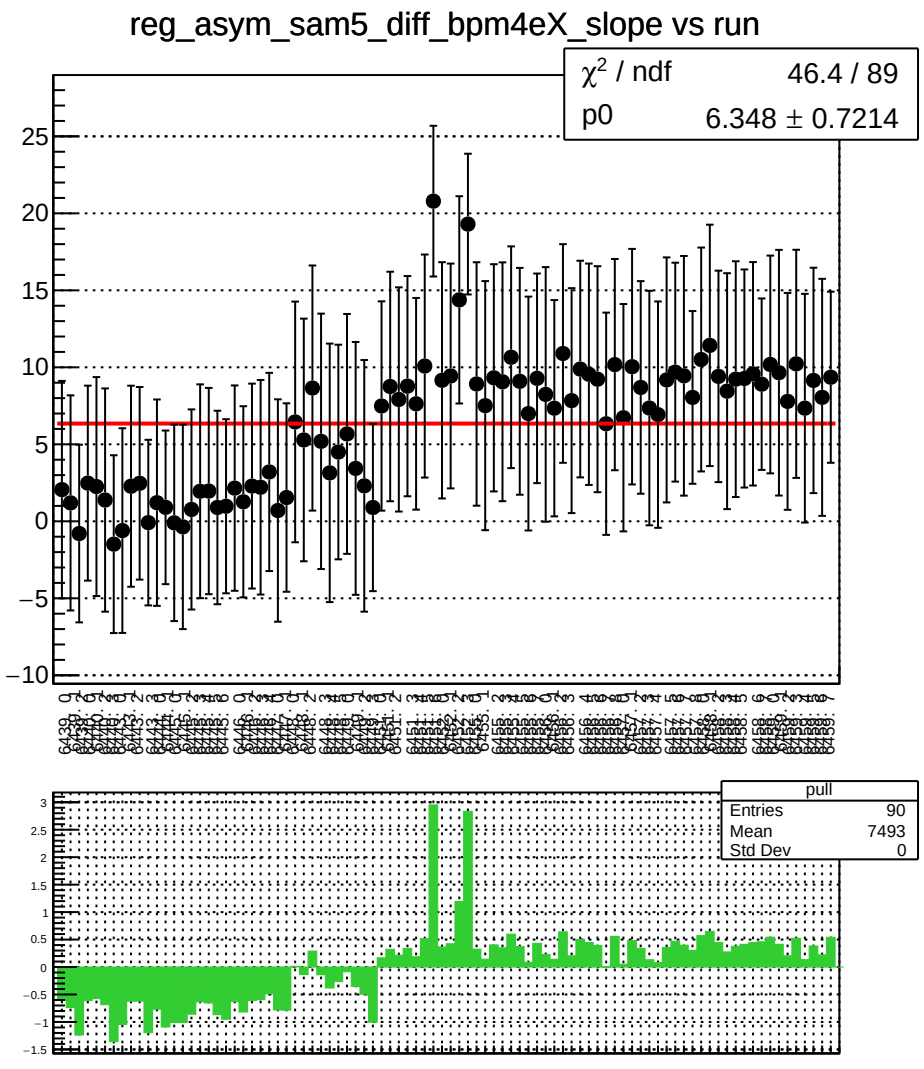

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 62.14 / 89
p0 236.6 ± 2.52
pull
Entries 90
Mean −1813
Std Dev 0
pull1D
Entries 90
Mean 0.00372
Std Dev 0.8309

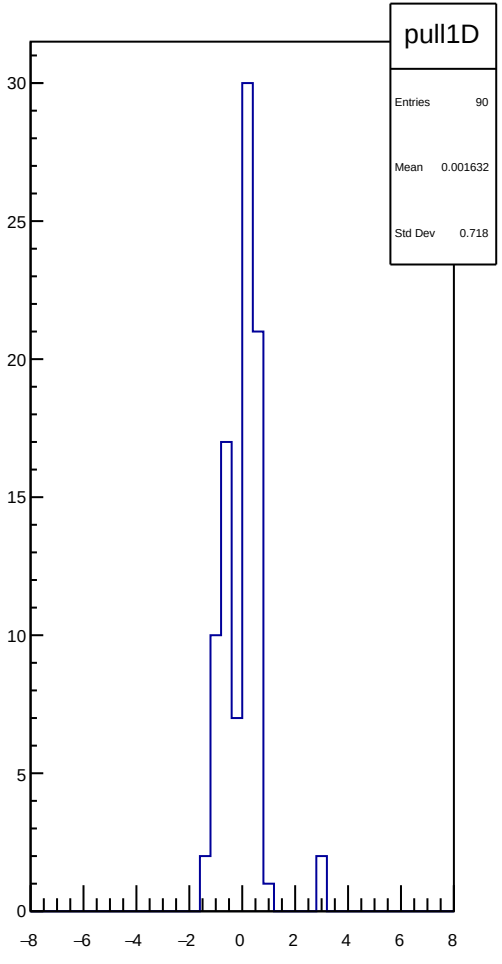

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 17.24 / 89
p0 0.4667 ± 0.1019
pull
Entries 90
Mean 281.7
Std Dev 0
pull1D
Entries 90
Mean 0.01703
Std Dev 0.4374

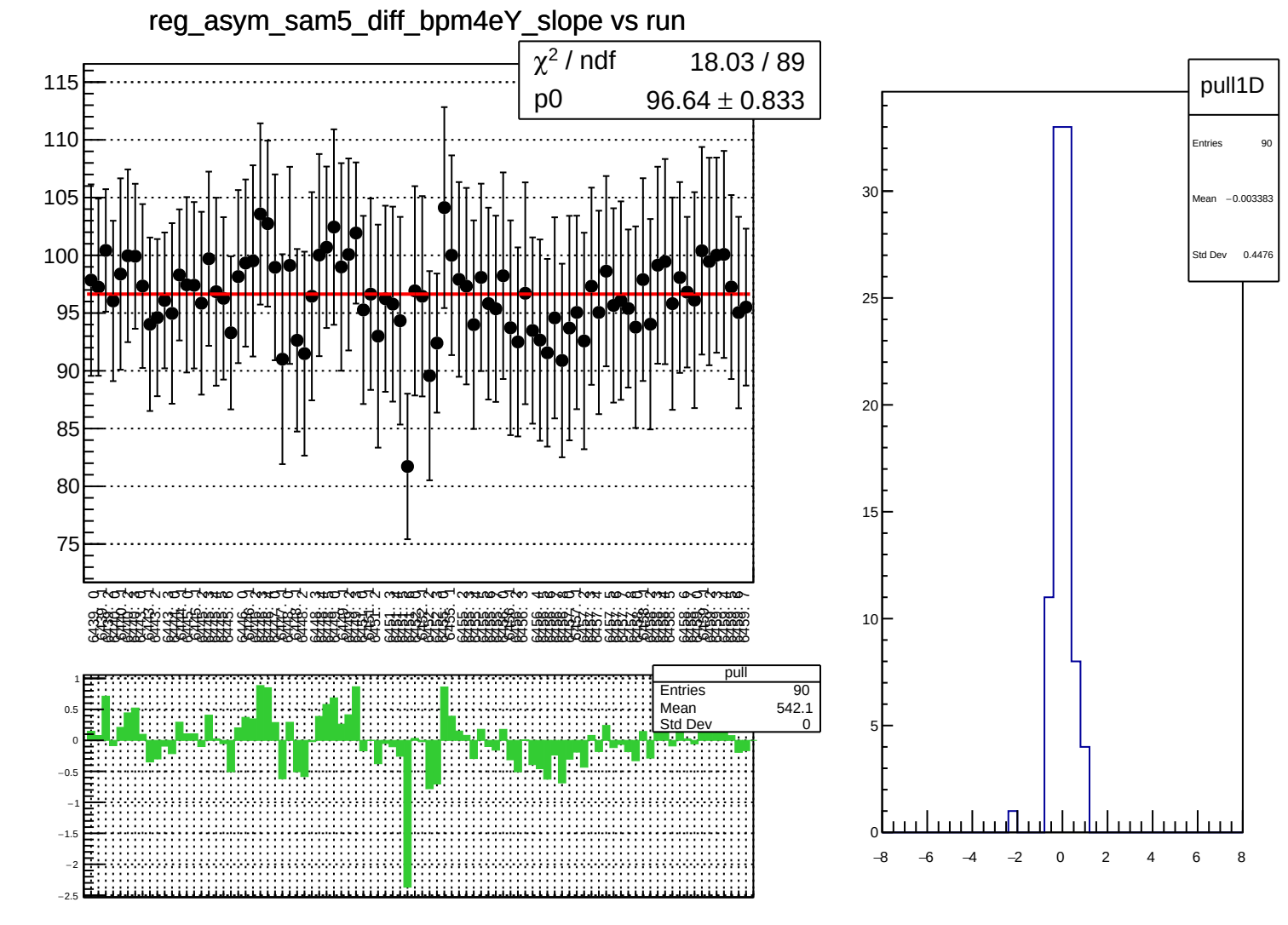

reg_asym_sam5_diff_bpm1X_slope vs run
χ^2 / ndf 48.75 / 89
p0 −4.655 ± 0.7133
pull
Entries 90
Mean 805.9
Std Dev 0

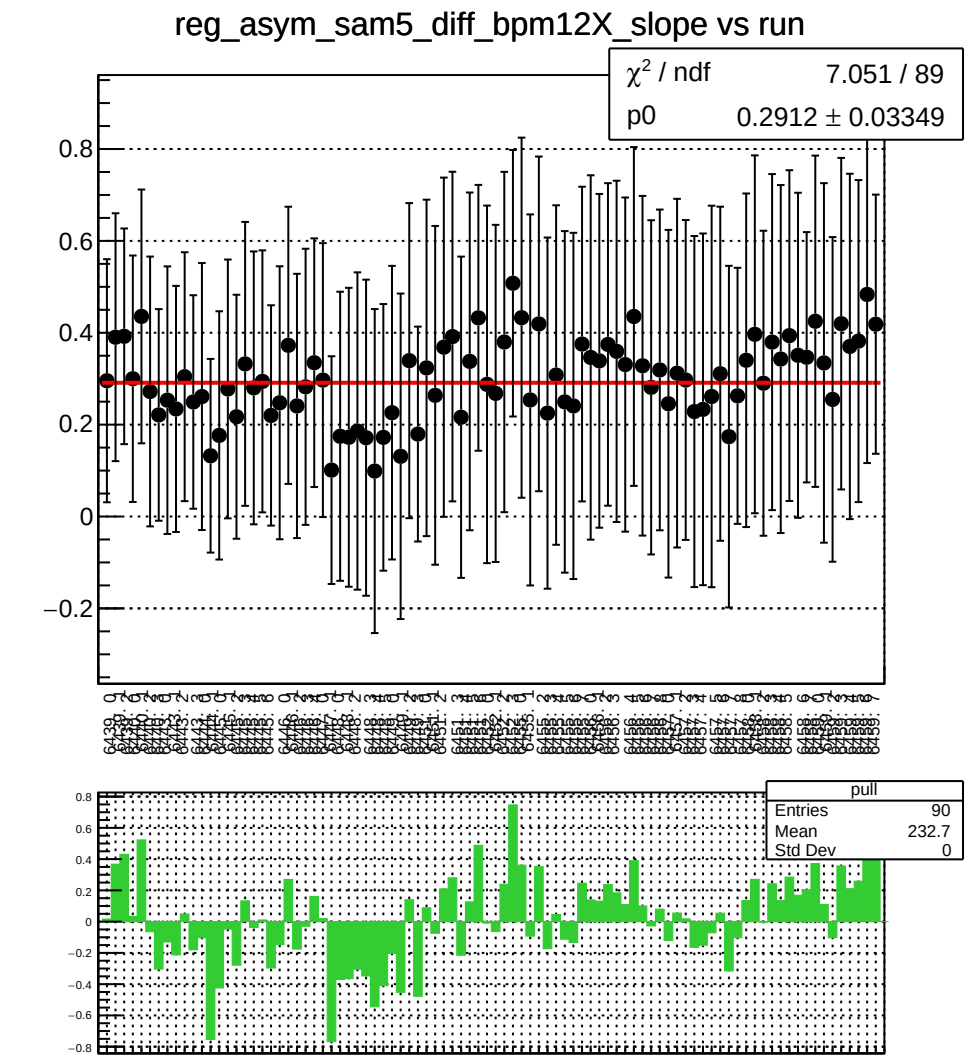

pull1D
Entries 90
Mean −0.01677
Std Dev 0.7358

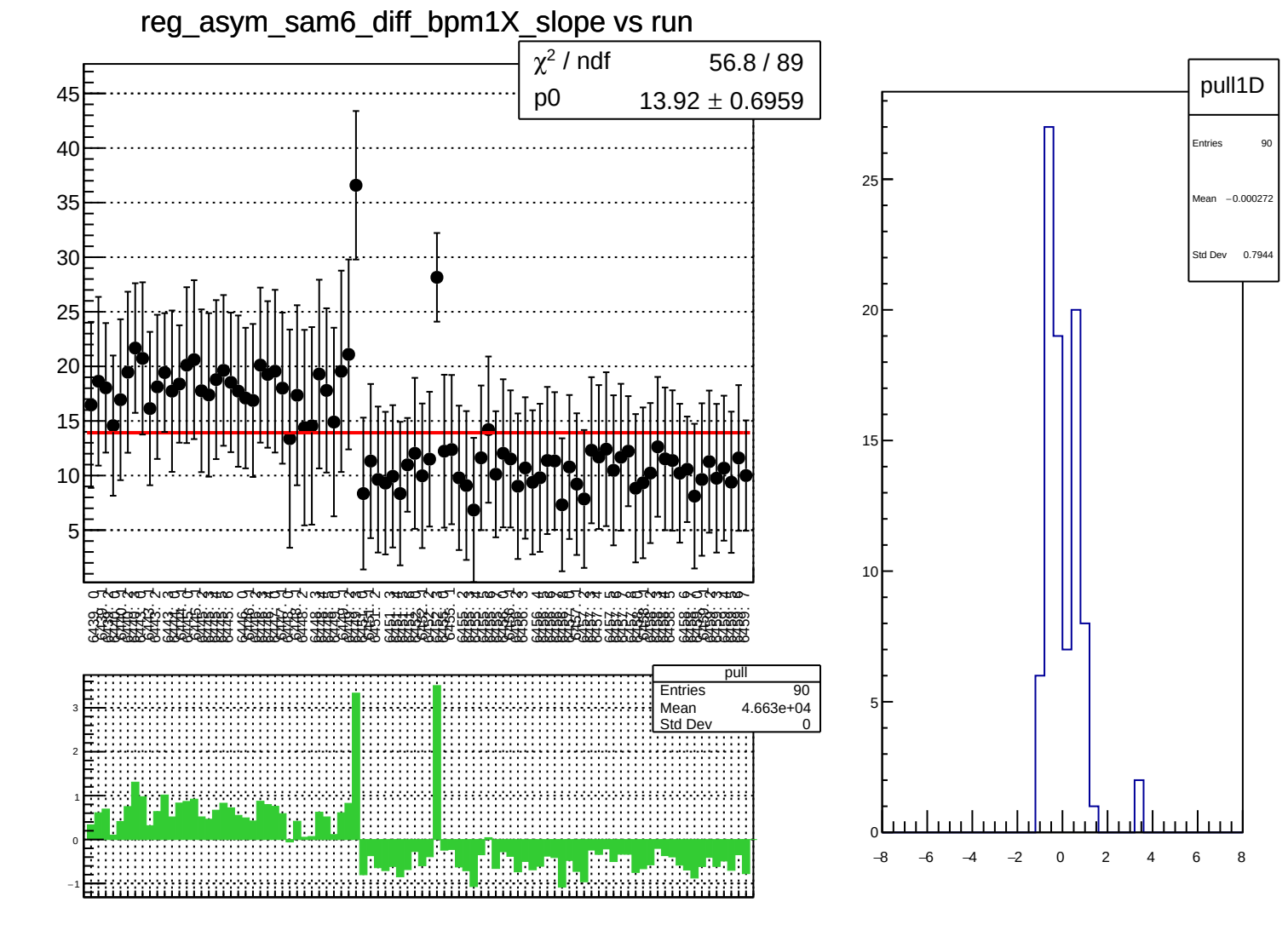

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 42.22 / 89
p0 55.89 ± 0.8319
pull
Entries 90
Mean 690.3
Std Dev 0
pull1D
Entries 90
Mean 0.00583
Std Dev 0.6849

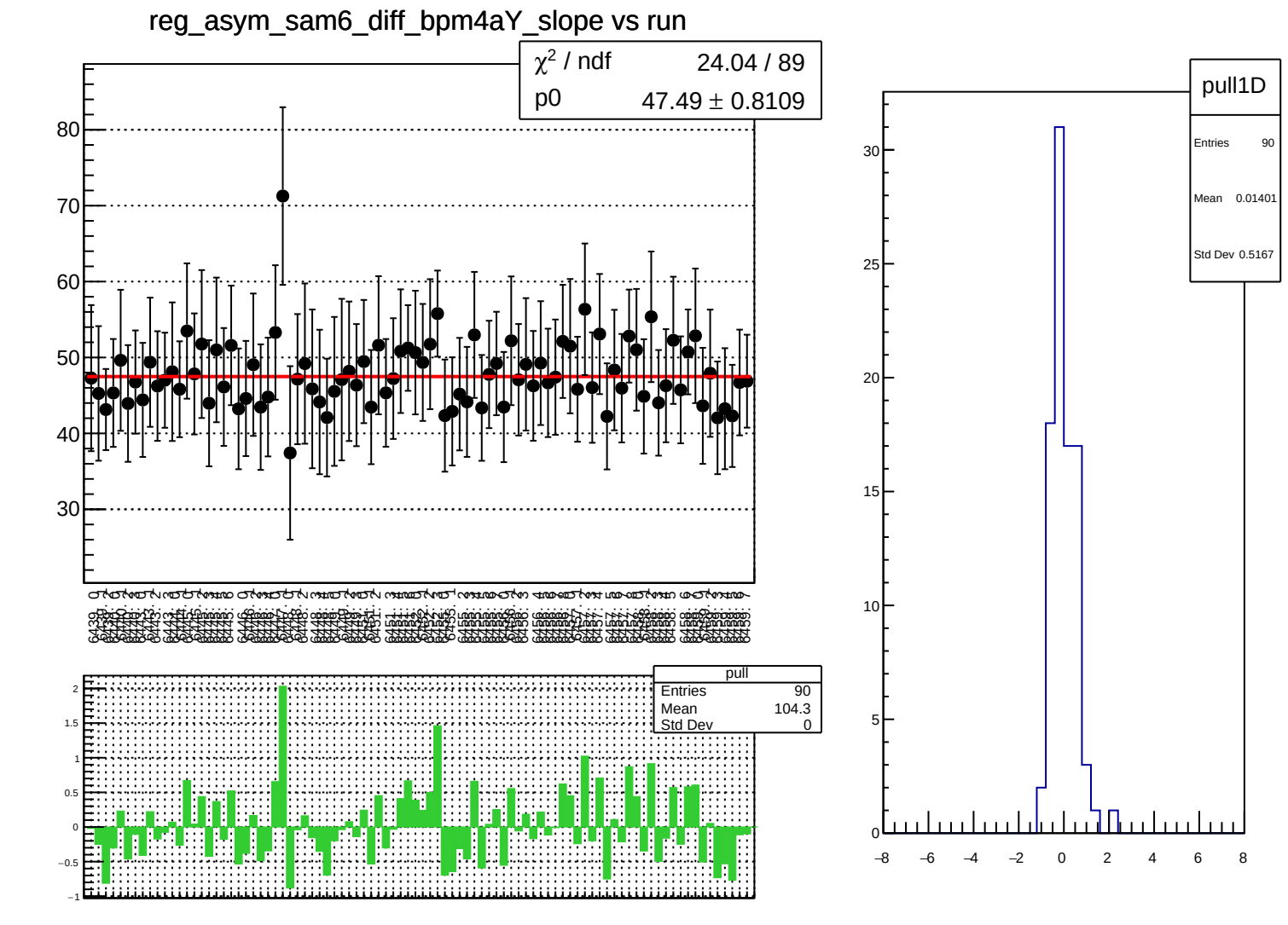

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 46.4 / 89
p0 6.348 ± 0.7214
pull
Entries 90
Mean 7493
Std Dev 0

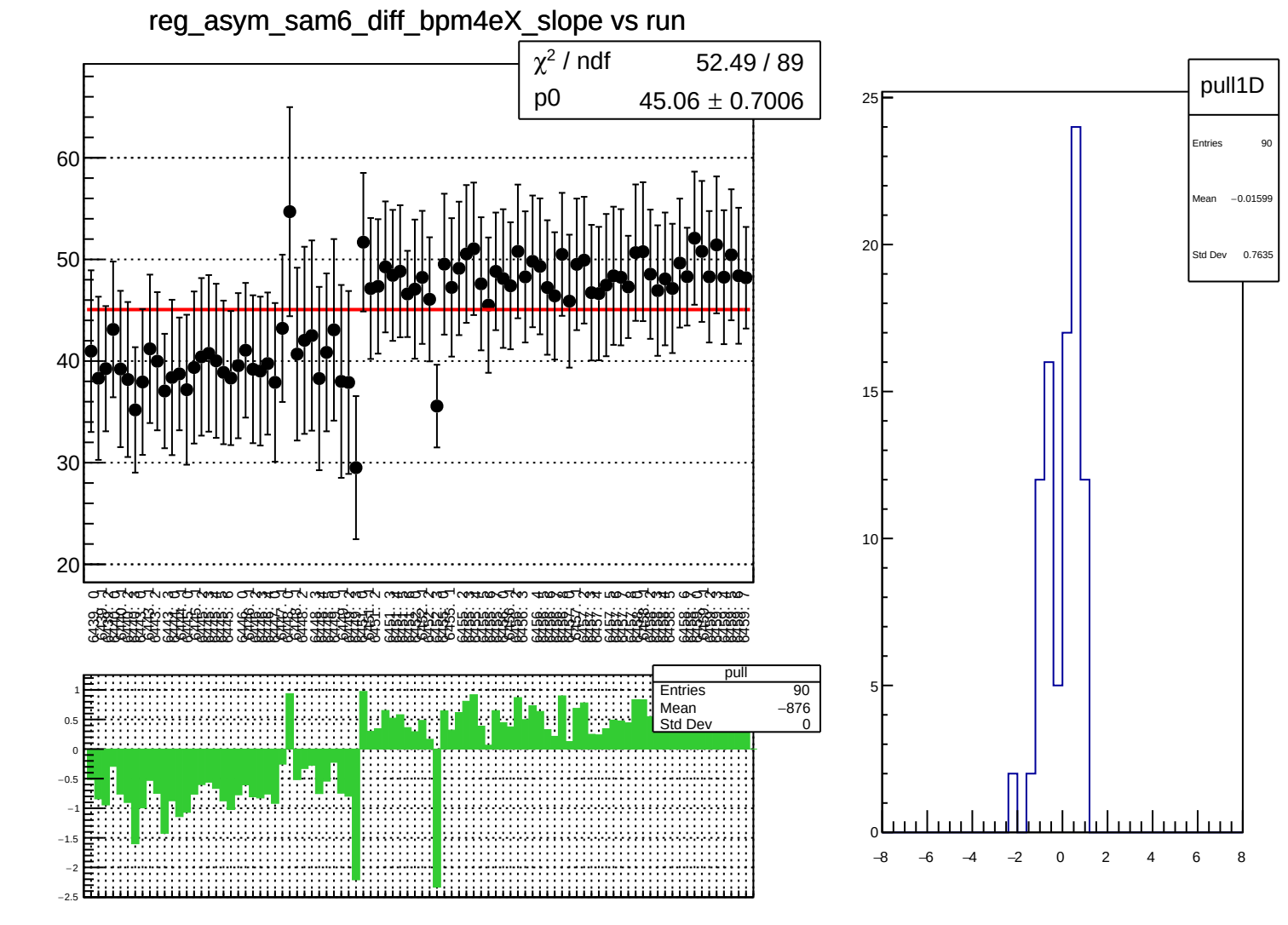

pull1D
Entries 90
Mean 0.001632
Std Dev 0.718

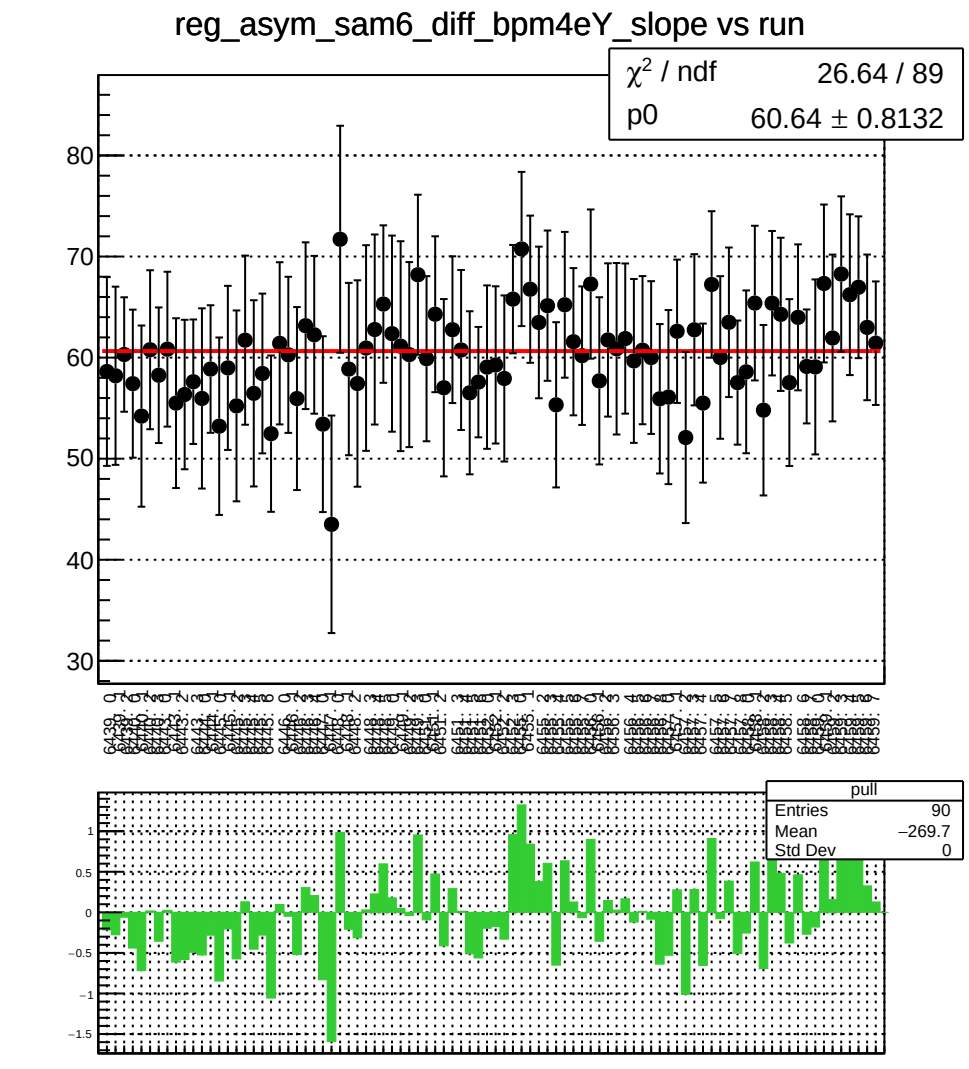

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 18.03 / 89
p0 96.64 ± 0.833
pull
Entries 90
Mean 542.1
Std Dev 0
pull1D
Entries 90
Mean −0.003383
Std Dev 0.4476

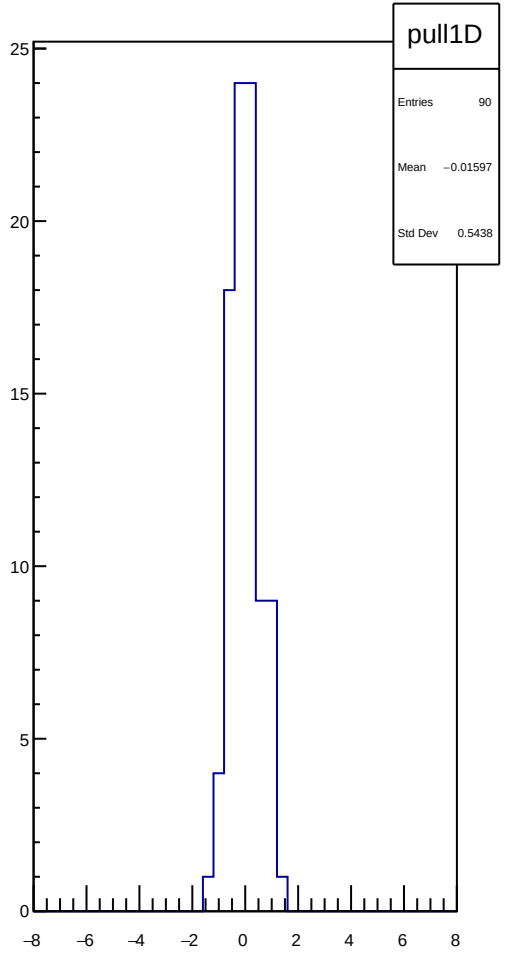

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 7.051 / 89
p0 0.2912 ± 0.03349
pull
Entries 90
Mean 232.7
Std Dev 0
pull1D
Entries 90
Mean 0.01341
Std Dev 0.2796

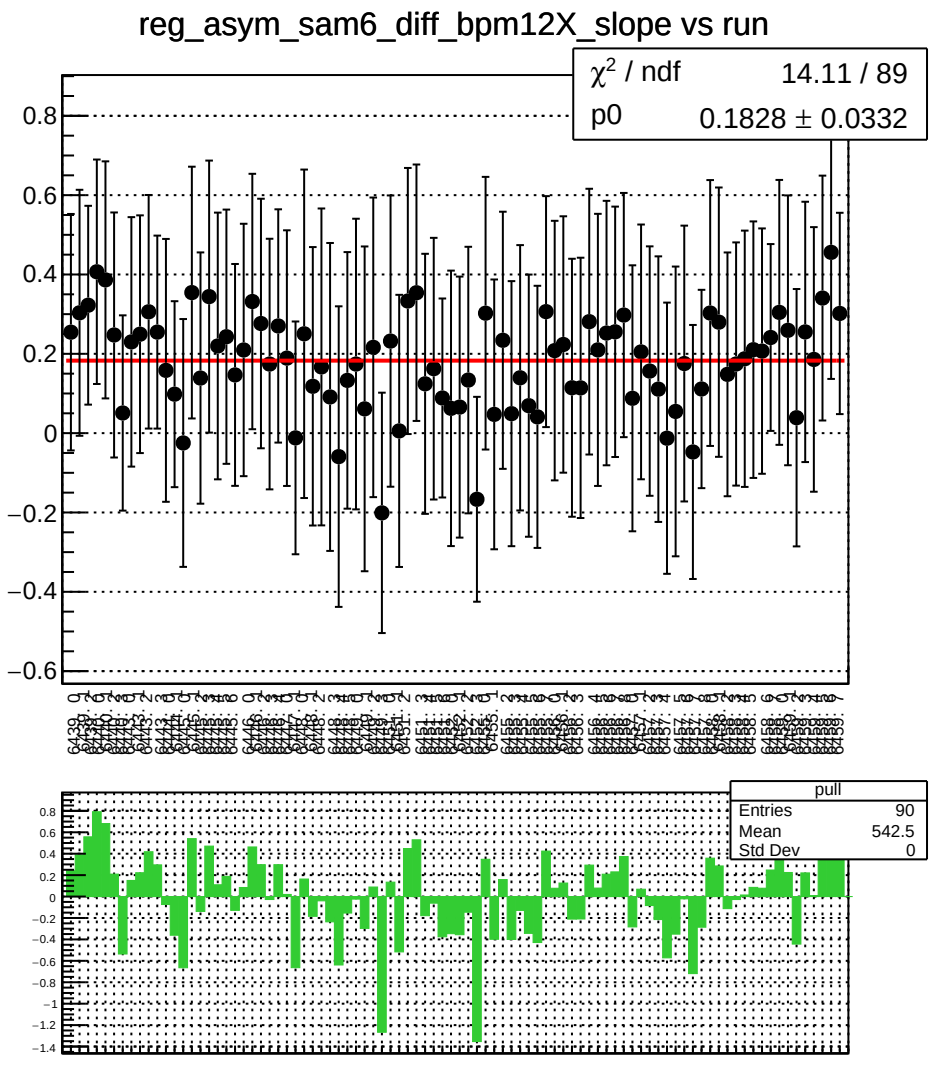

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 56.8 / 89
p0 13.92 ± 0.6959
pull
Entries 90
Mean 4.663e+04
Std Dev 0
pull1D
Entries 90
Mean −0.000272
Std Dev 0.7944

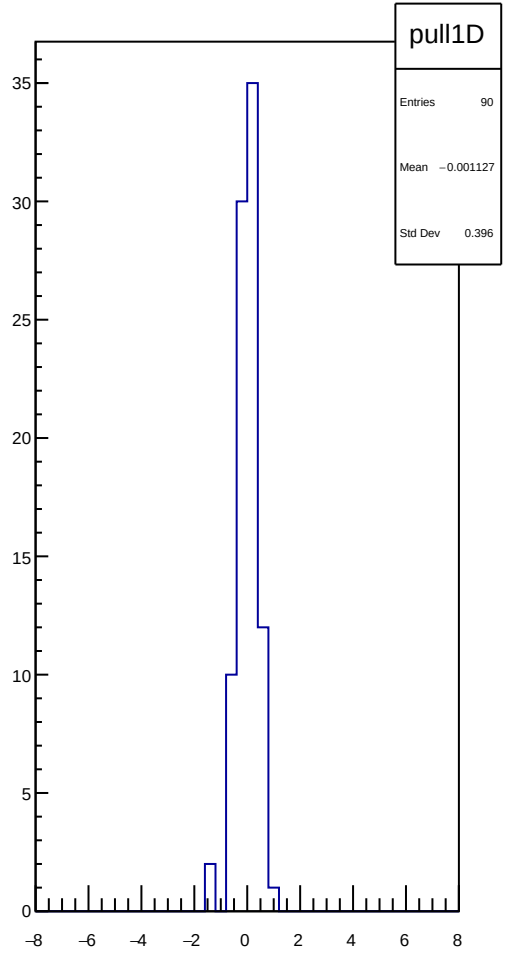

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 24.04 / 89
p0 47.49 ± 0.8109
pull
Entries 90
Mean 104.3
Std Dev 0
pull1D
Entries 90
Mean 0.01401
Std Dev 0.5167

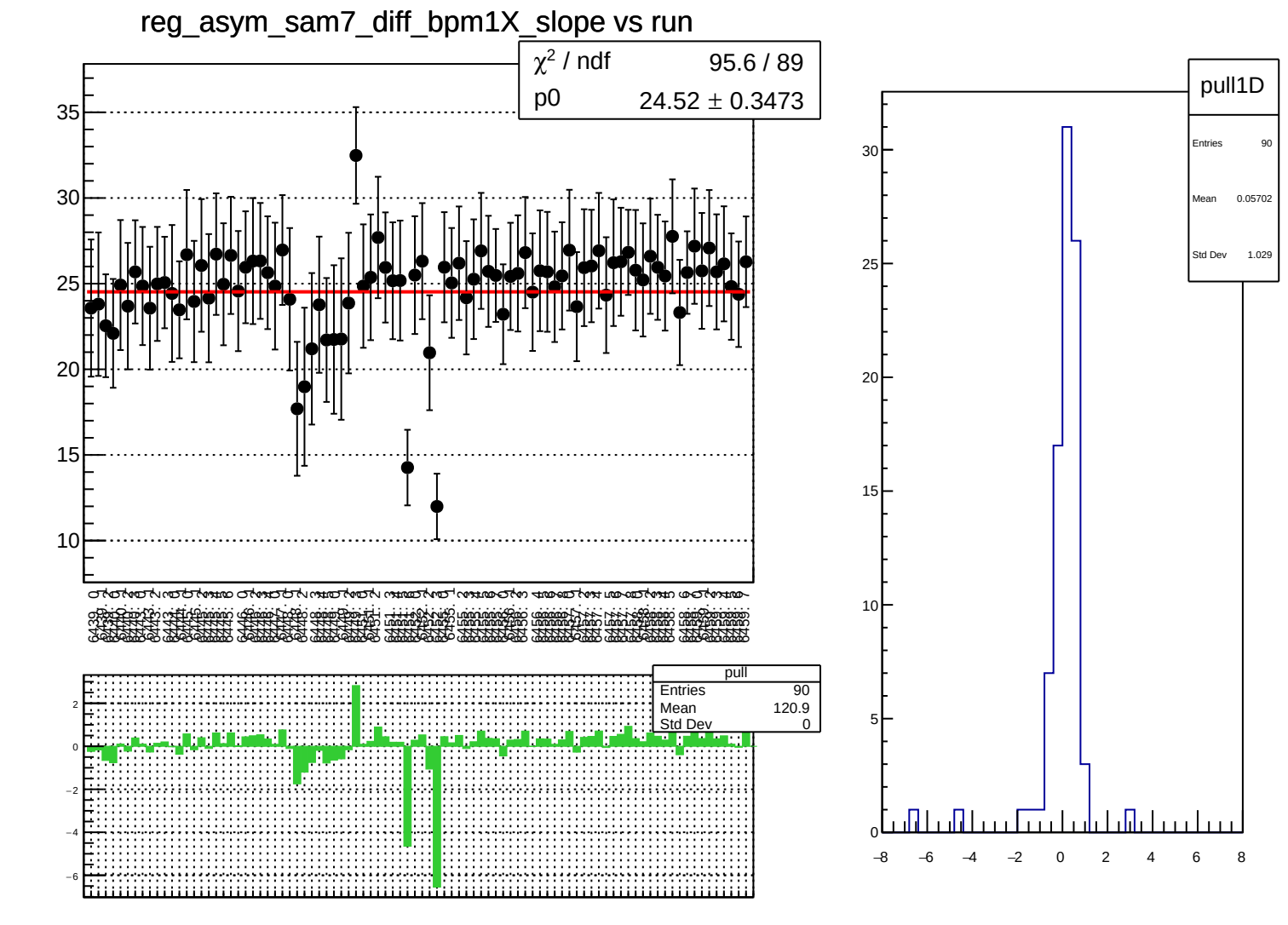

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 52.49 / 89
p0 45.06 ± 0.7006
pull
Entries 90
Mean −876
Std Dev 0
pull1D
Entries 90
Mean −0.01599
Std Dev 0.7635

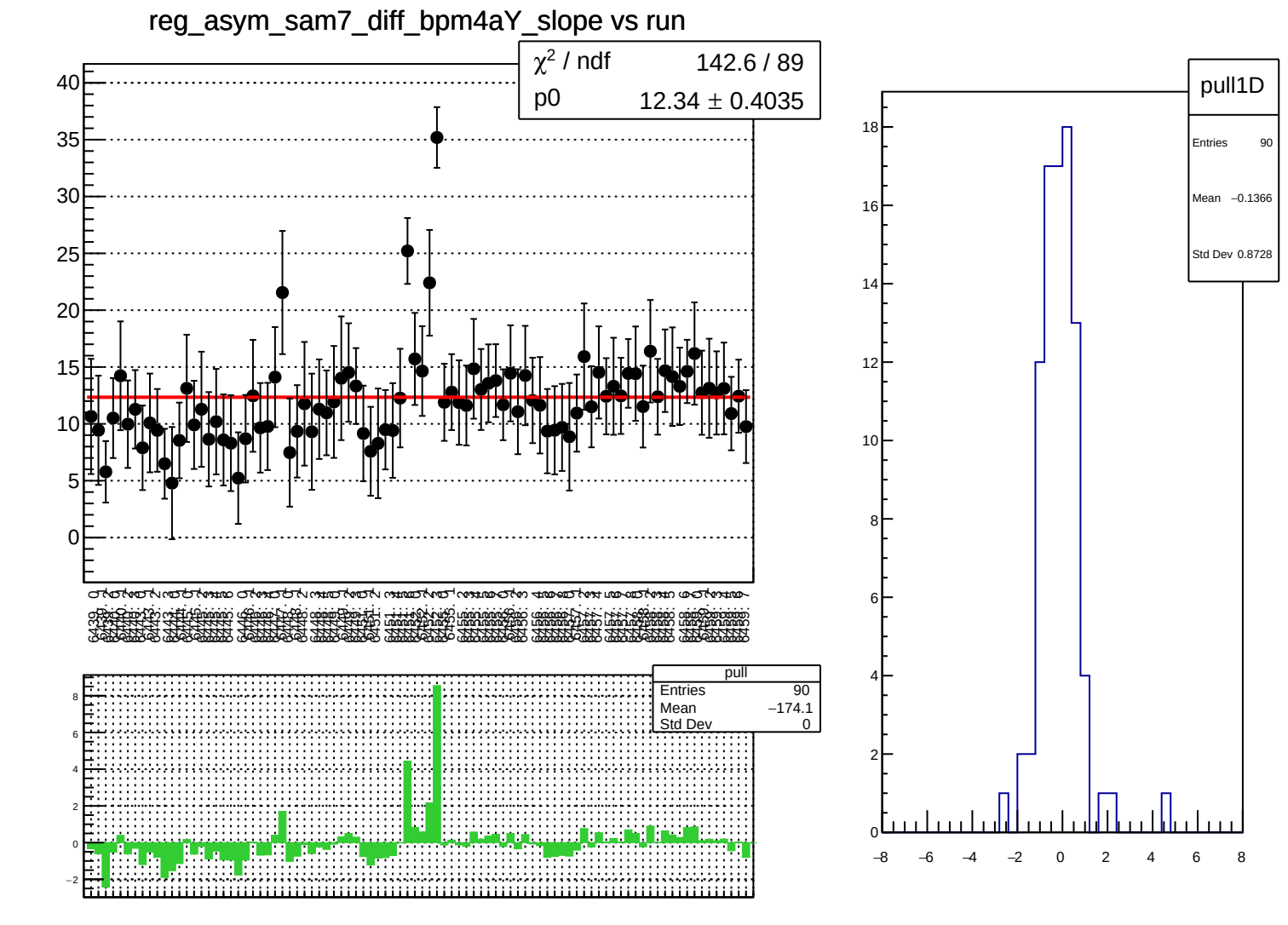

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 26.64 / 89
p0 60.64 ± 0.8132
pull
Entries 90
Mean −269.7
Std Dev 0

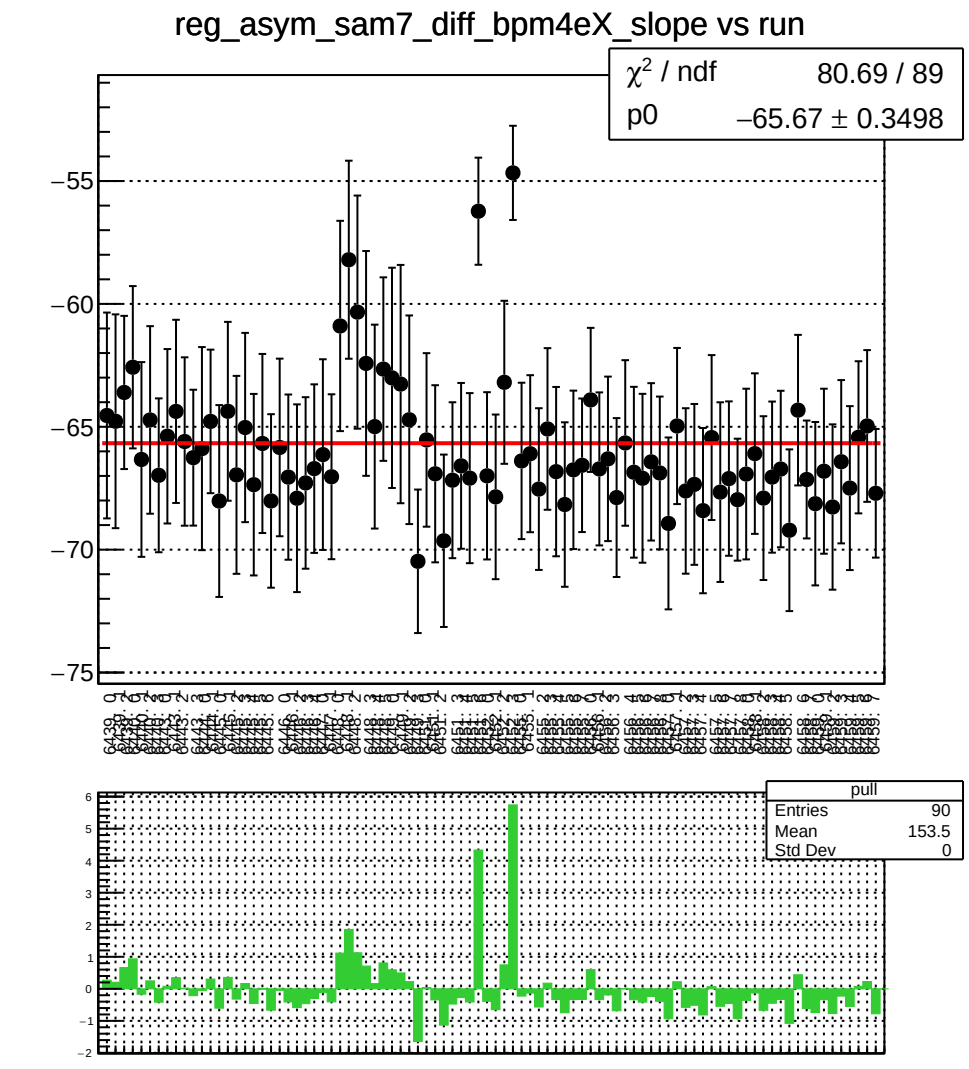

pull1D
Entries 90
Mean −0.01597
Std Dev 0.5438

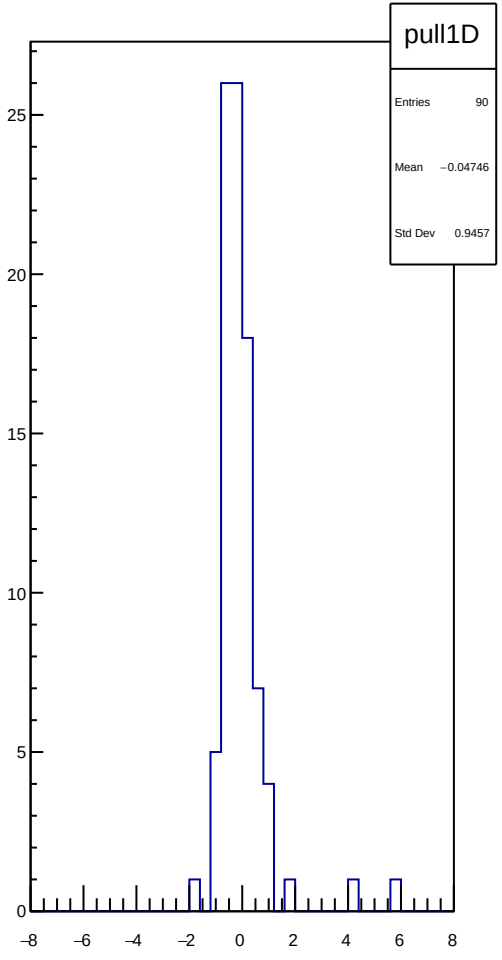

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 14.11 / 89
p0 0.1828 ± 0.0332
pull
Entries 90
Mean 542.5
Std Dev 0

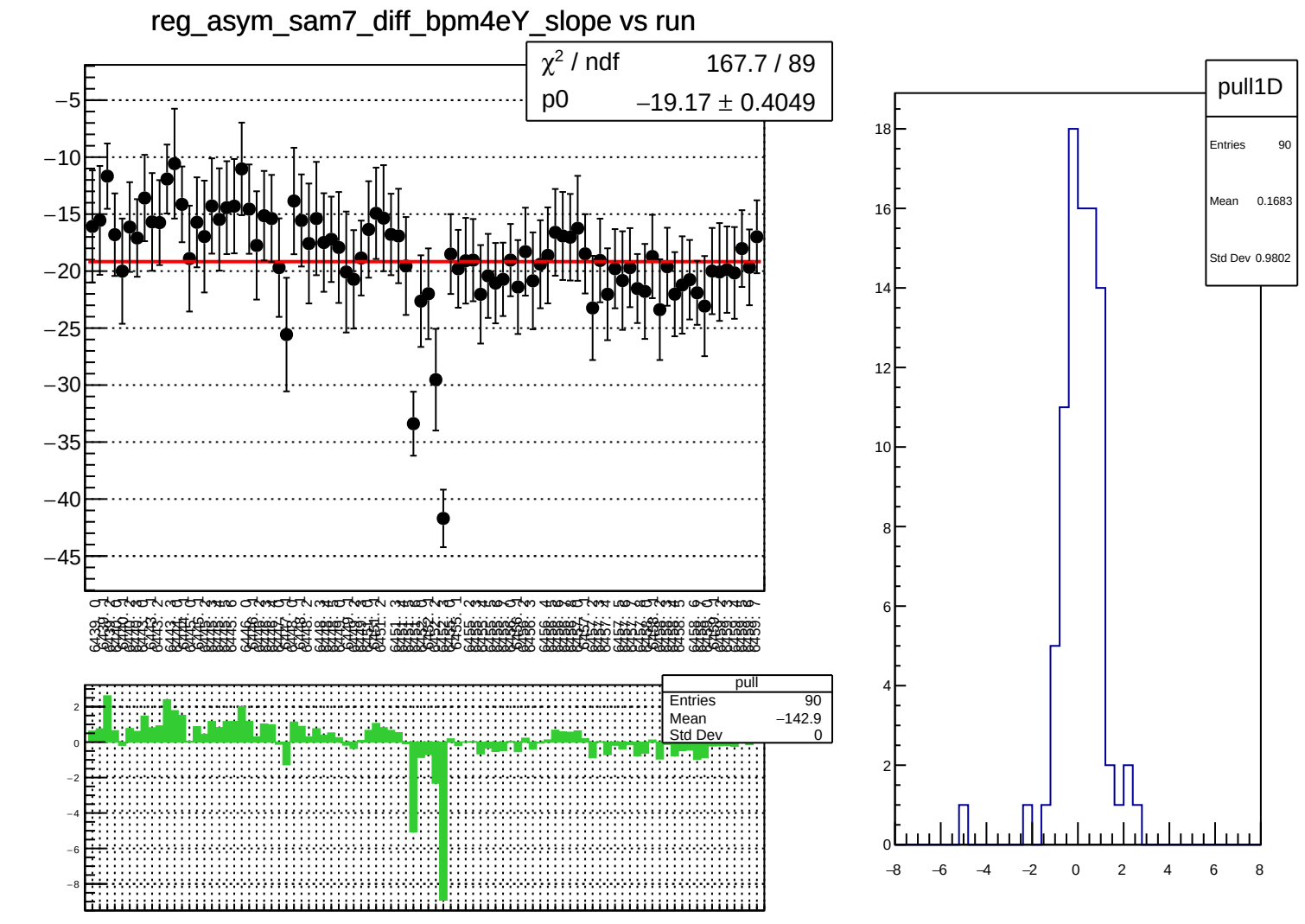

pull1D
Entries 90
Mean −0.001127
Std Dev 0.396

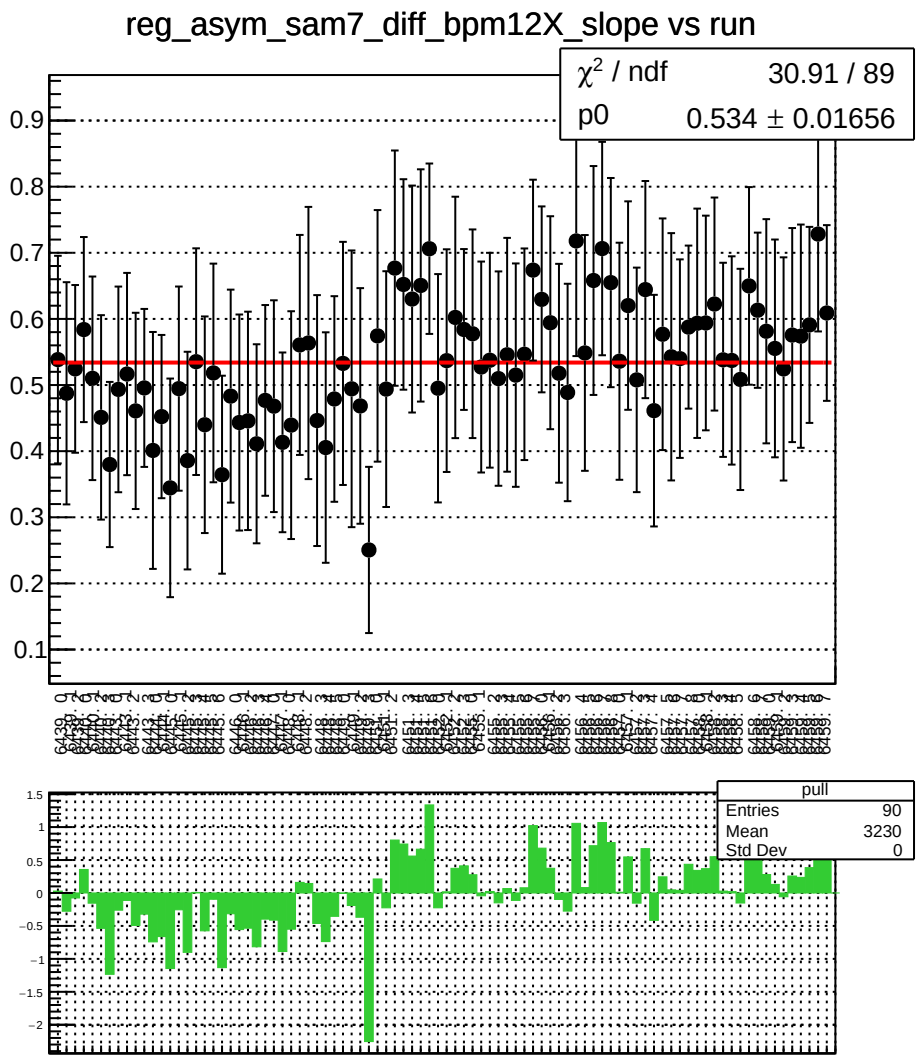

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 95.6 / 89
p0 24.52 ± 0.3473
pull
Entries 90
Mean 120.9
Std Dev 0
pull1D
Entries 90
Mean 0.05702
Std Dev 1.029

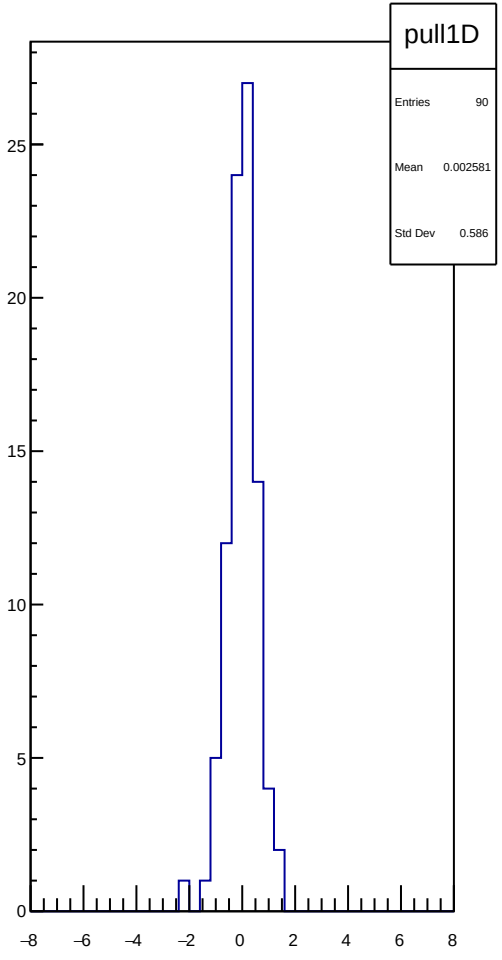

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 142.6 / 89
p0 12.34 ± 0.4035
pull
Entries 90
Mean −174.1
Std Dev 0
pull1D
Entries 90
Mean −0.1366
Std Dev 0.8728

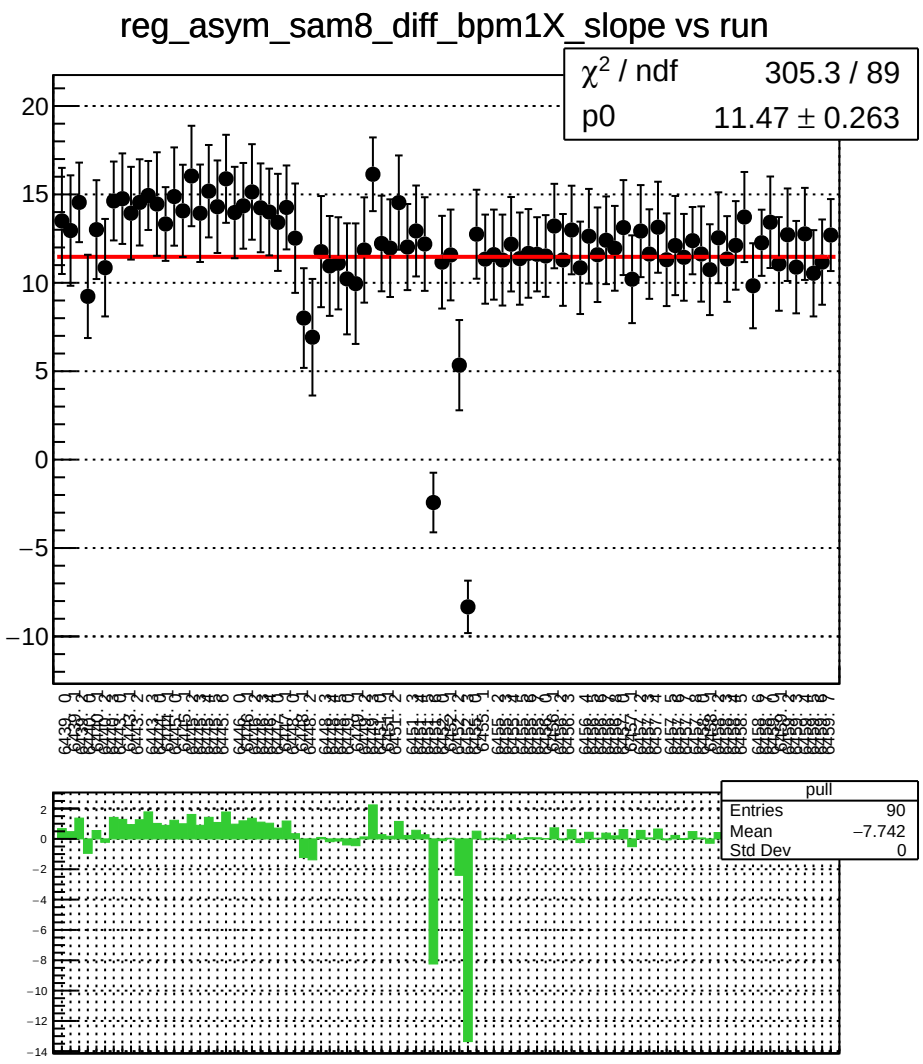

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 80.69 / 89
p0 −65.67 ± 0.3498
pull
Entries 90
Mean 153.5
Std Dev 0

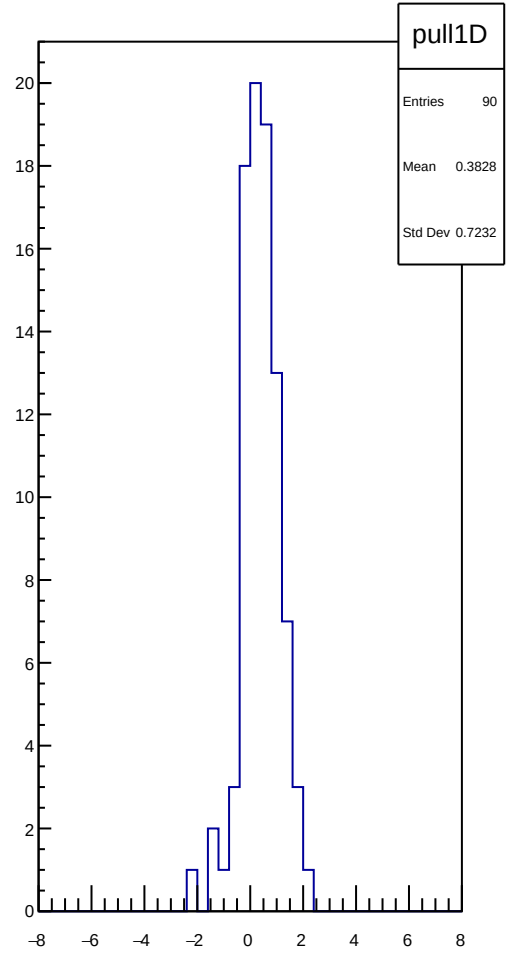

pull1D
Entries 90
Mean −0.04746
Std Dev 0.9457

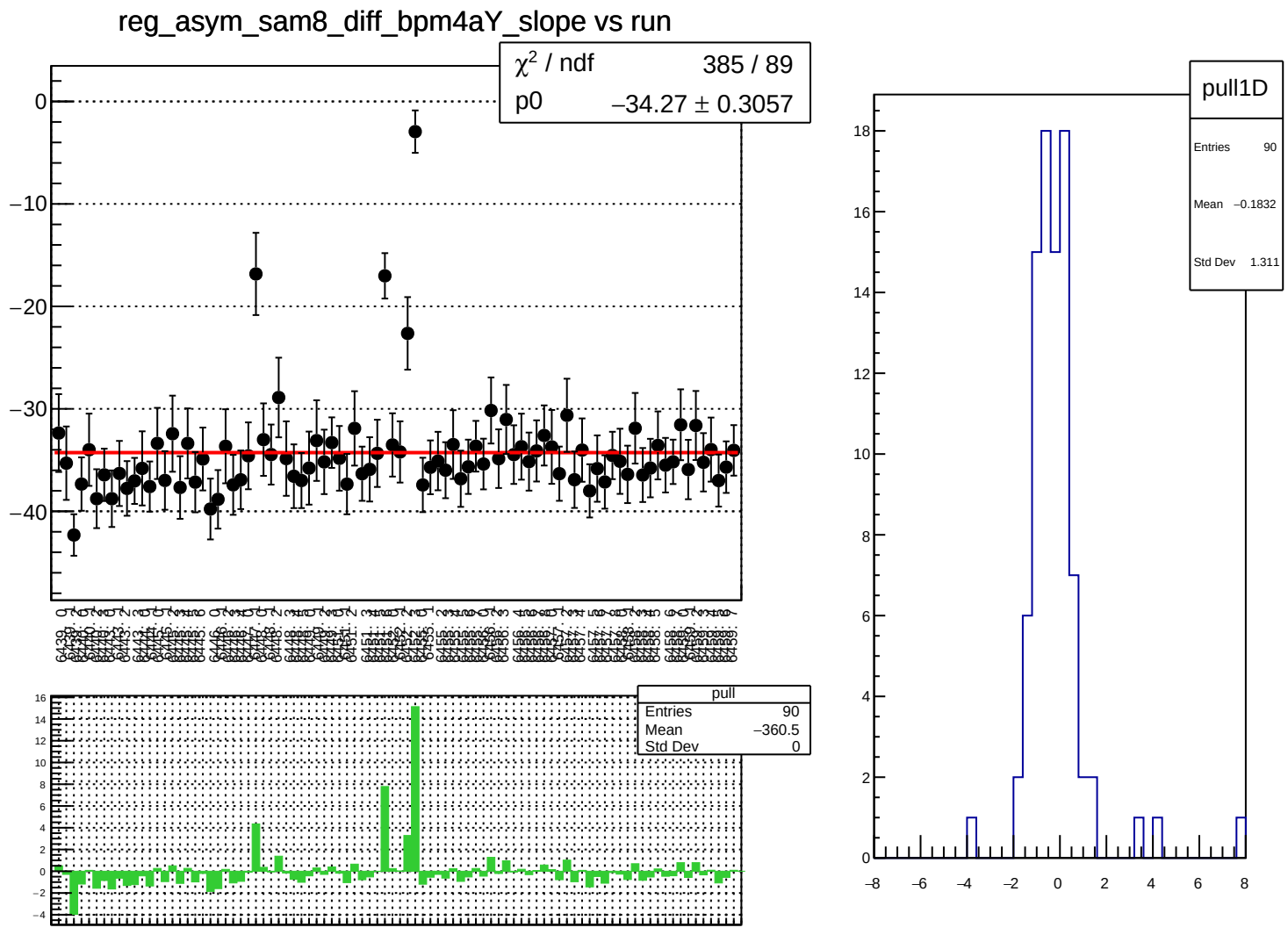

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 167.7 / 89
p0 −19.17 ± 0.4049
pull
Entries 90
Mean −142.9
Std Dev 0
pull1D
Entries 90
Mean 0.1683
Std Dev 0.9802

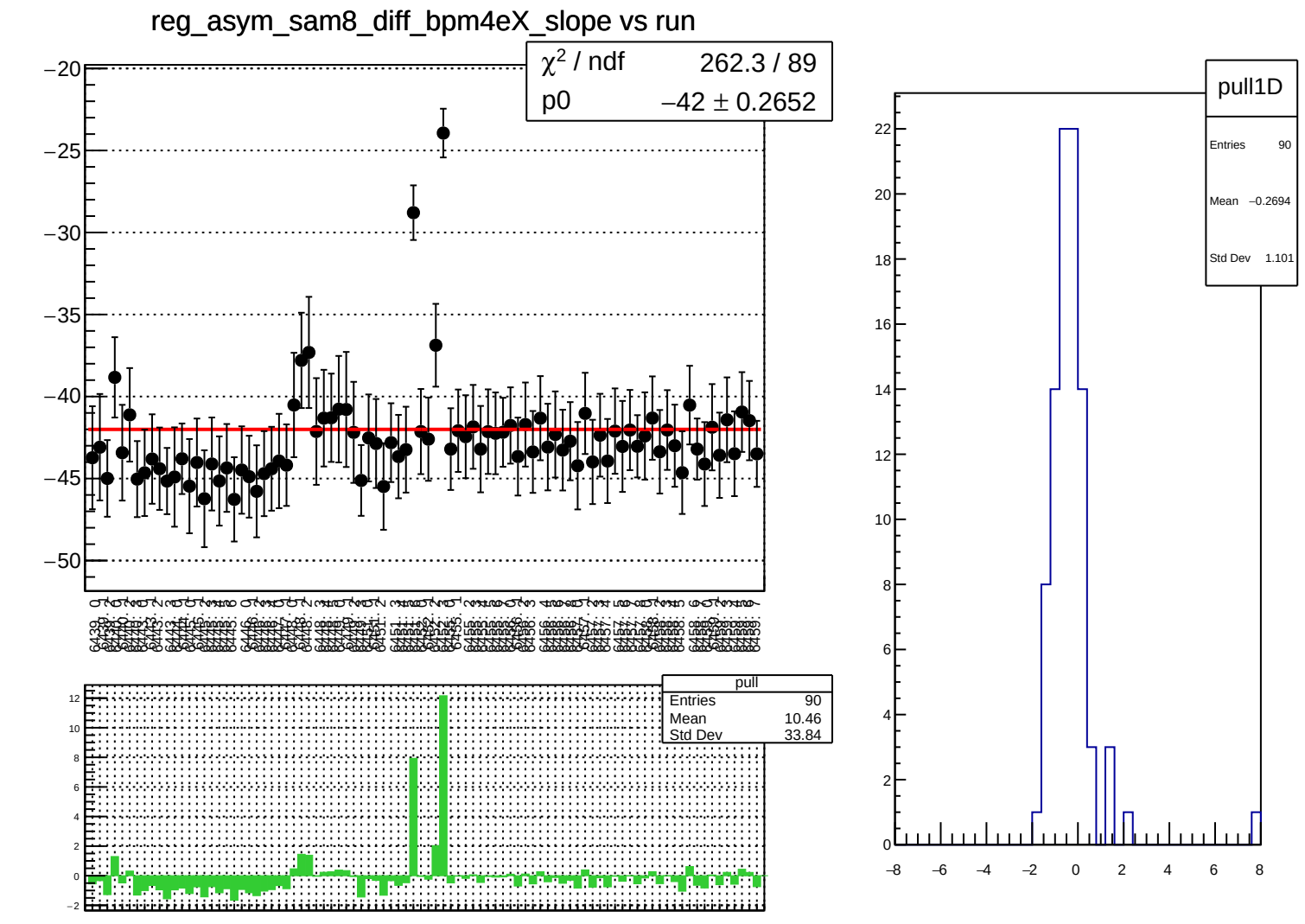

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 30.91 / 89
p0 0.534 ± 0.01656
pull
Entries 90
Mean 3230
Std Dev 0

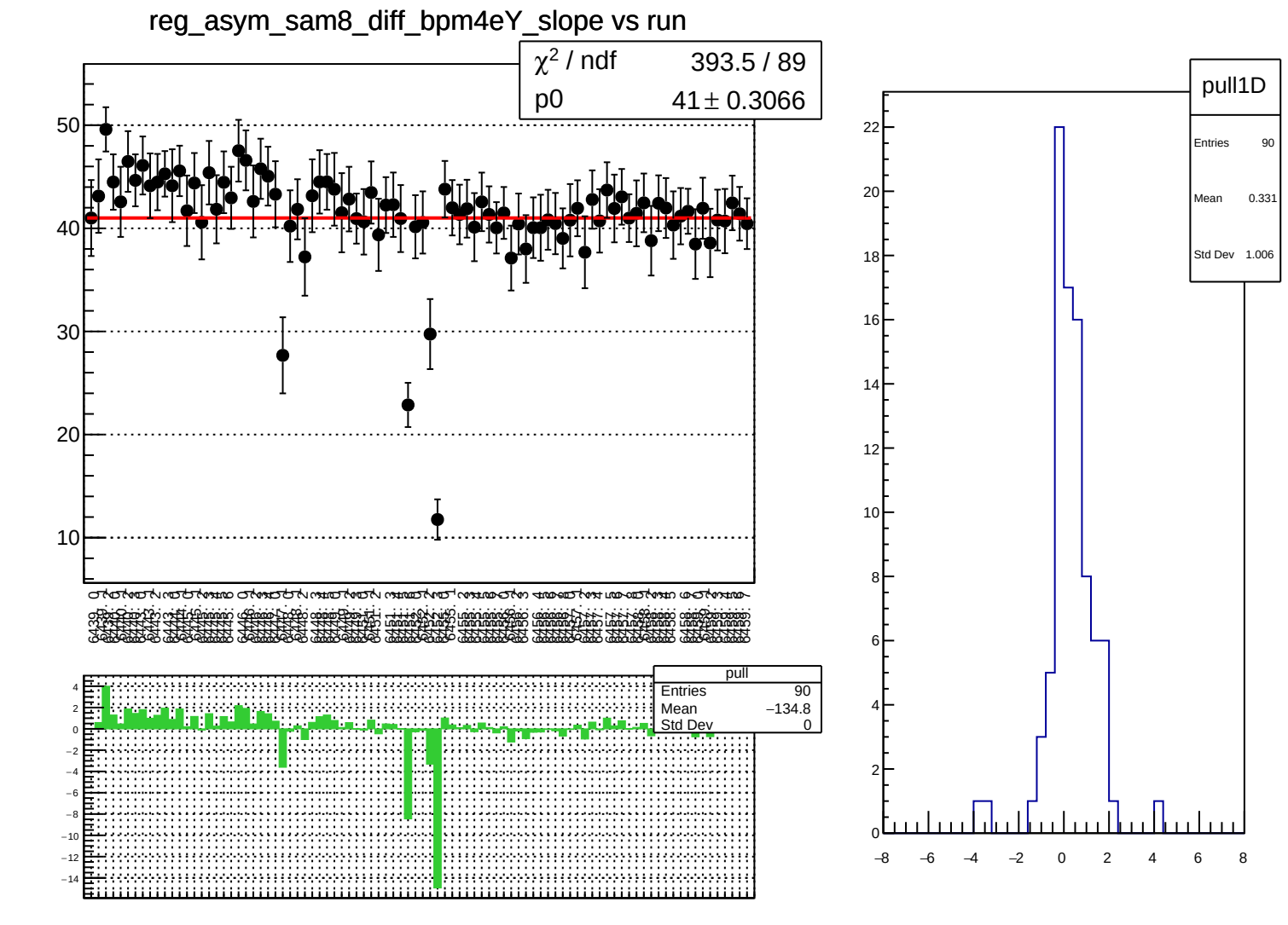

pull1D
Entries 90
Mean 0.002581
Std Dev 0.586

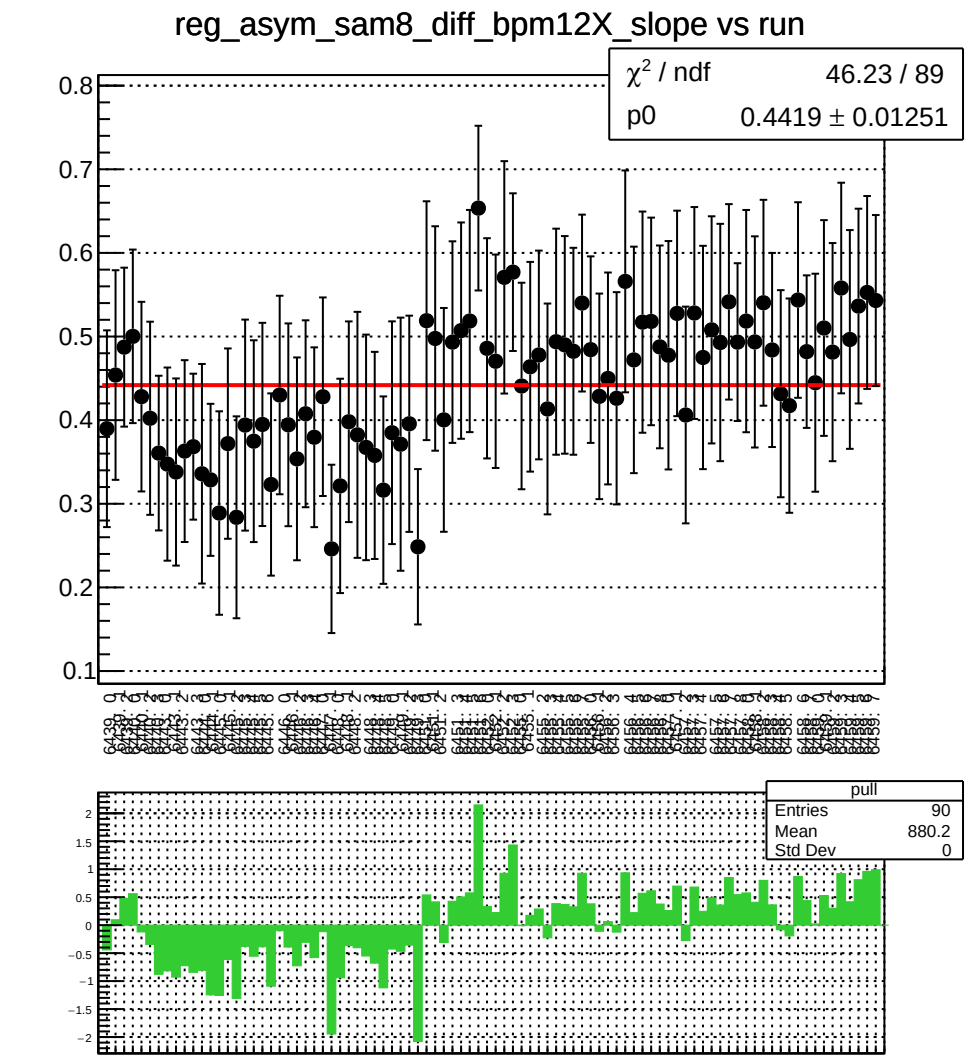

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 305.3 / 89
p0 11.47 ± 0.263
pull
Entries 90
Mean −7.742
Std Dev 0

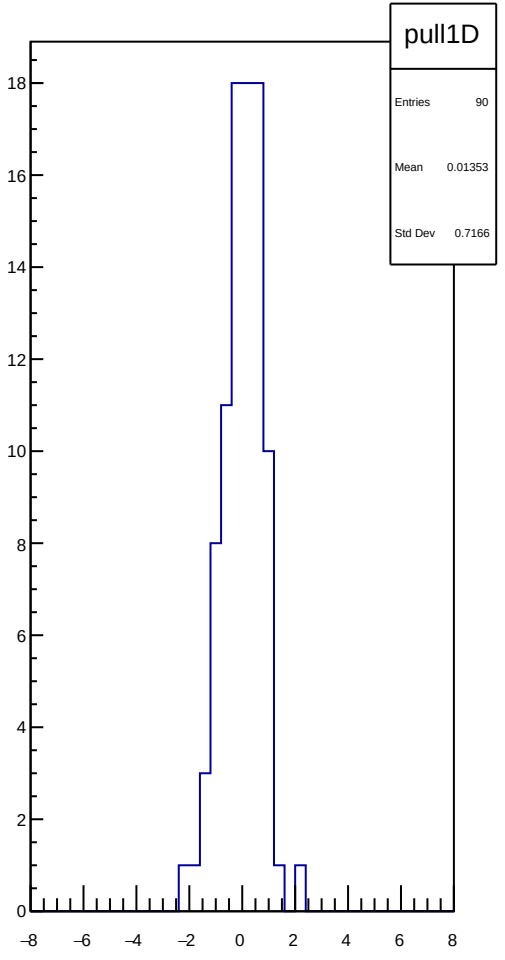

pull1D
Entries 90
Mean 0.3828
Std Dev 0.7232

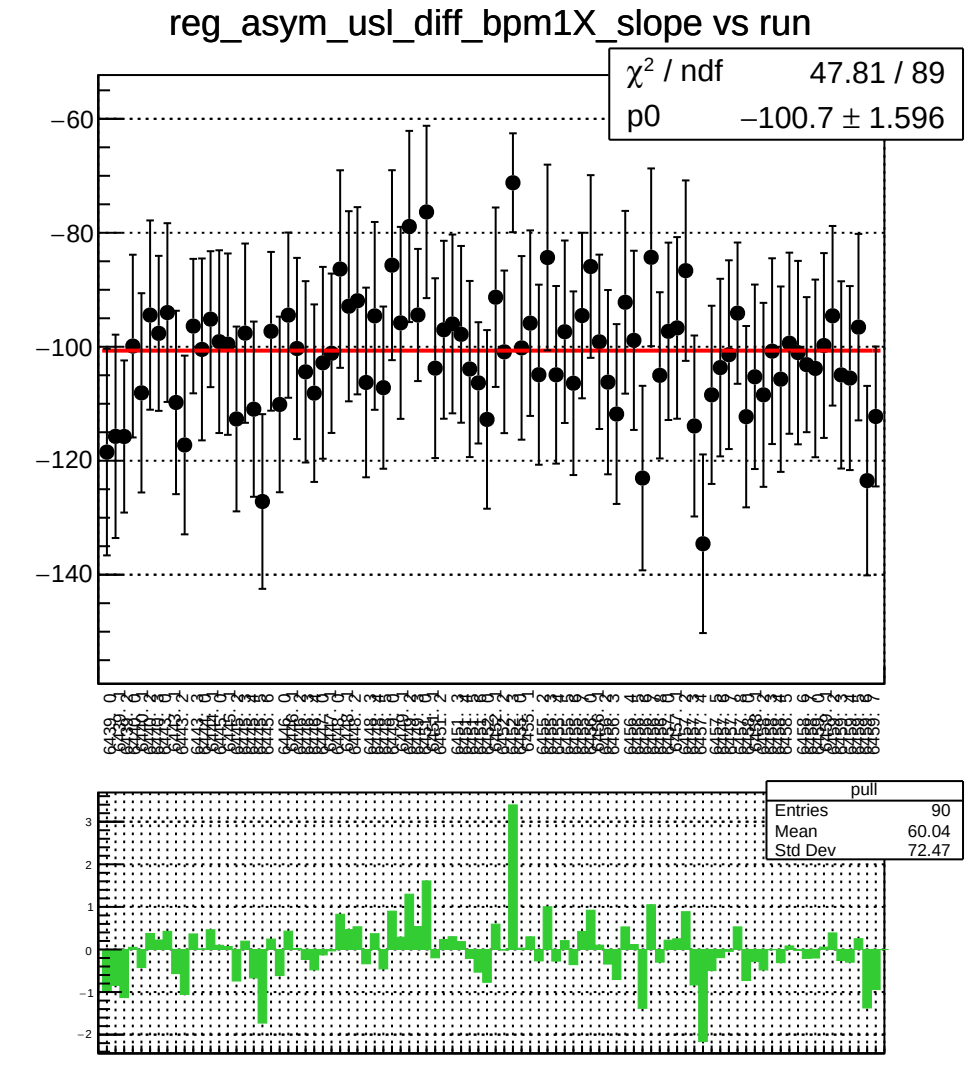

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 385 / 89
p0 −34.27 ± 0.3057
pull
Entries 90
Mean −360.5
Std Dev 0
pull1D
Entries 90
Mean −0.1832
Std Dev 1.311

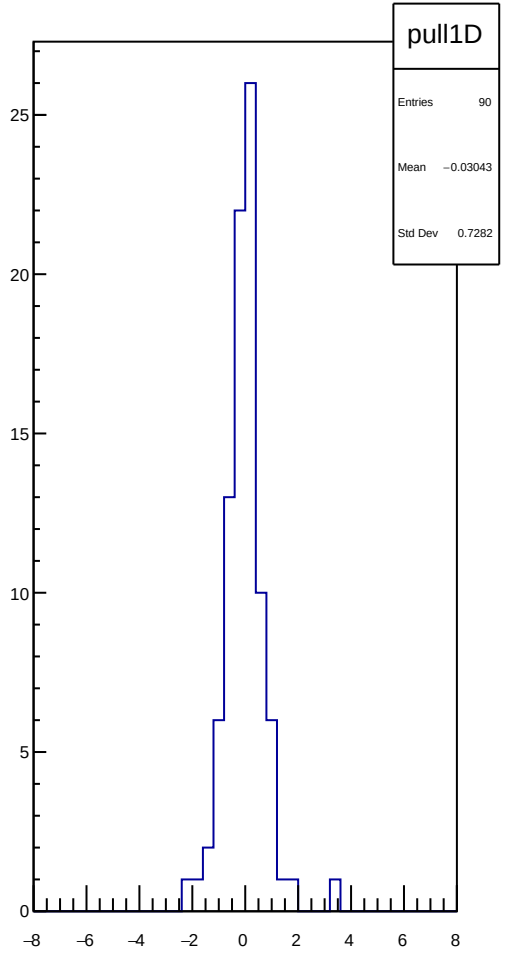

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 262.3 / 89
p0 −42 ± 0.2652
pull
Entries 90
Mean 10.46
Std Dev 33.84
pull1D
Entries 90
Mean −0.2694
Std Dev 1.101

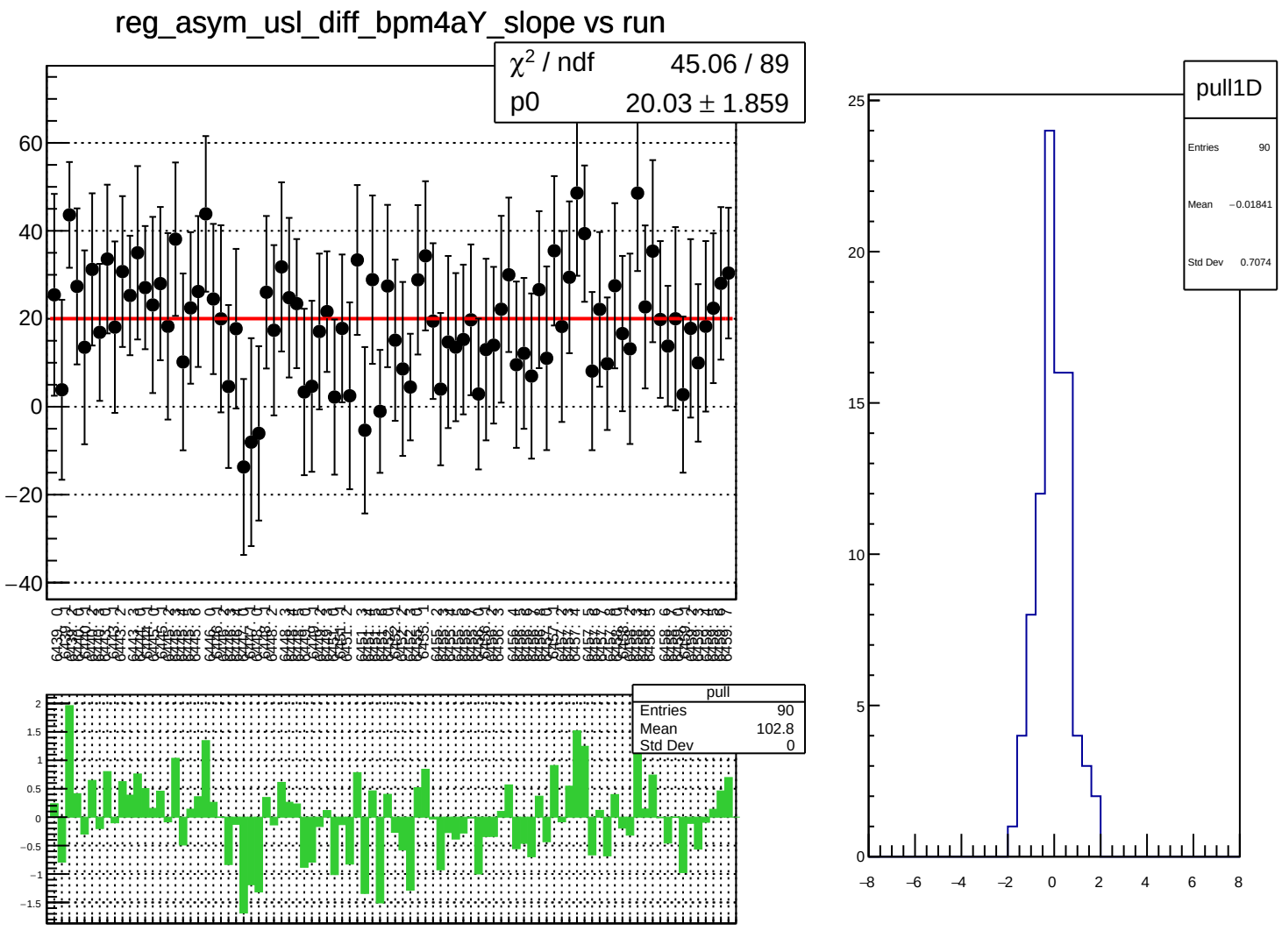

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 393.5 / 89
p0 41 ± 0.3066
pull
Entries 90
Mean −134.8
Std Dev 0
pull1D
Entries 90
Mean 0.331
Std Dev 1.006

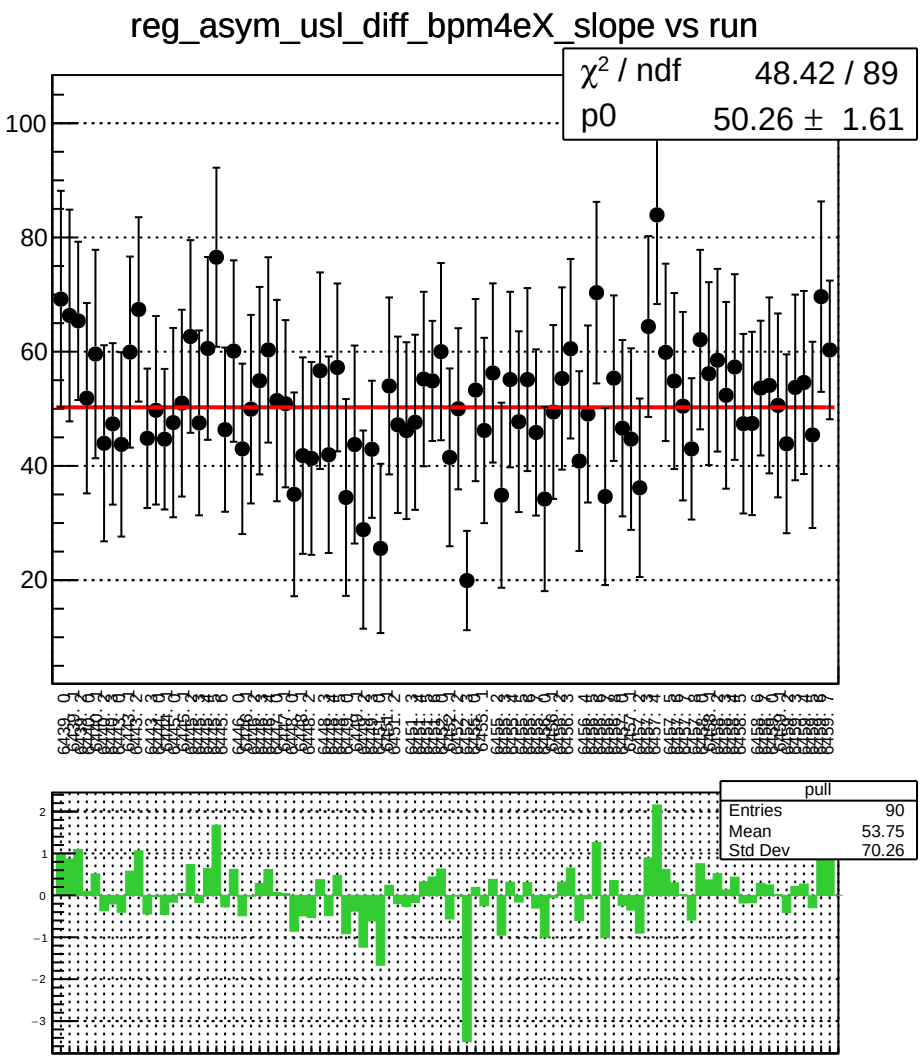

reg_asym_sam8_diff_bpm12X_slope vs run
χ^2 / ndf 46.23 / 89
p0 0.4419 ± 0.01251
pull
Entries 90
Mean 880.2
Std Dev 0

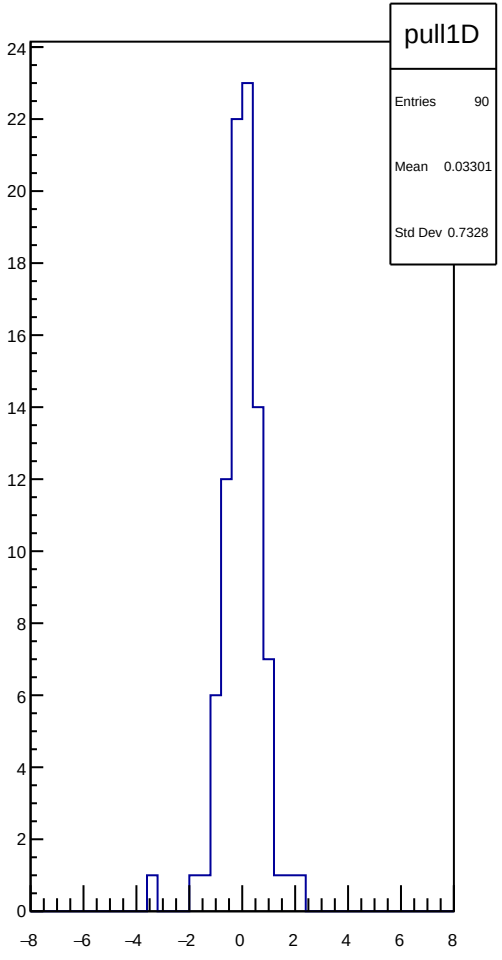

pull1D
Entries 90
Mean 0.01353
Std Dev 0.7166

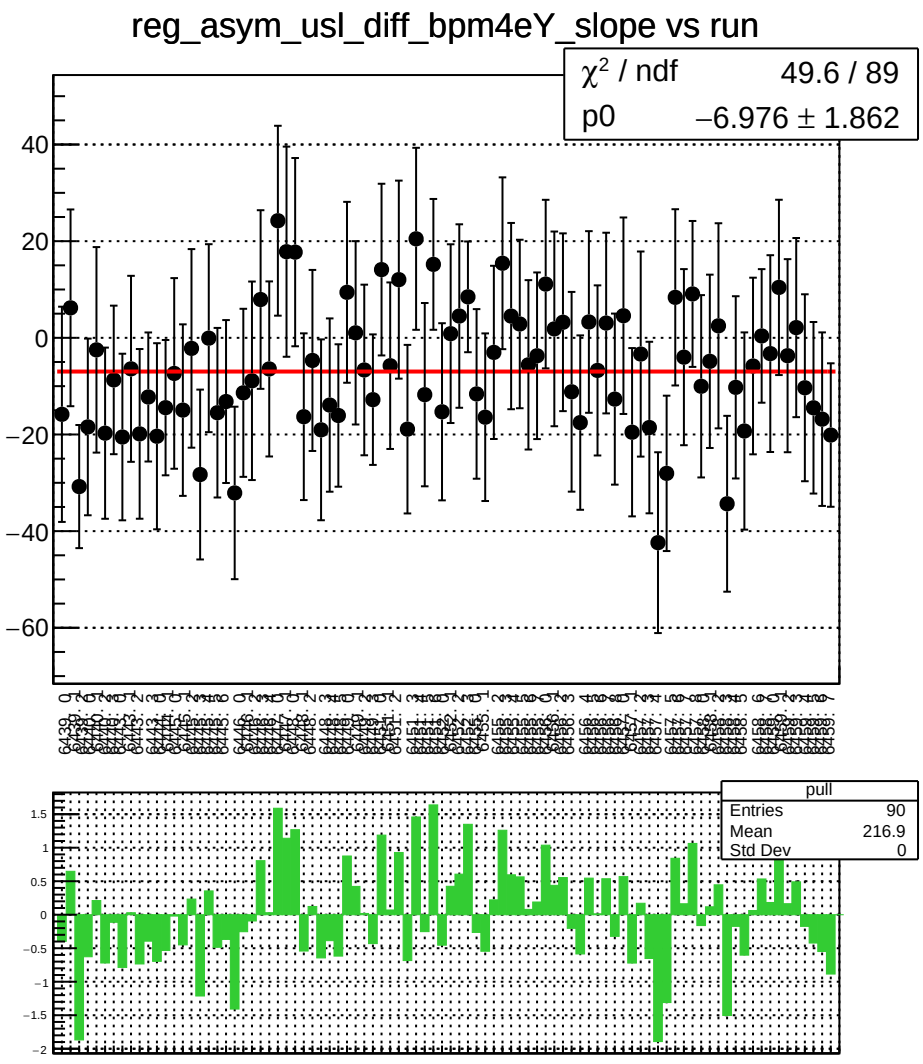

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 47.81 / 89
p0 −100.7 ± 1.596
−60
−80
−100
−120
−140
pull
Entries 90
Mean 60.04
Std Dev 72.47
3
2
1
0
−1
−2

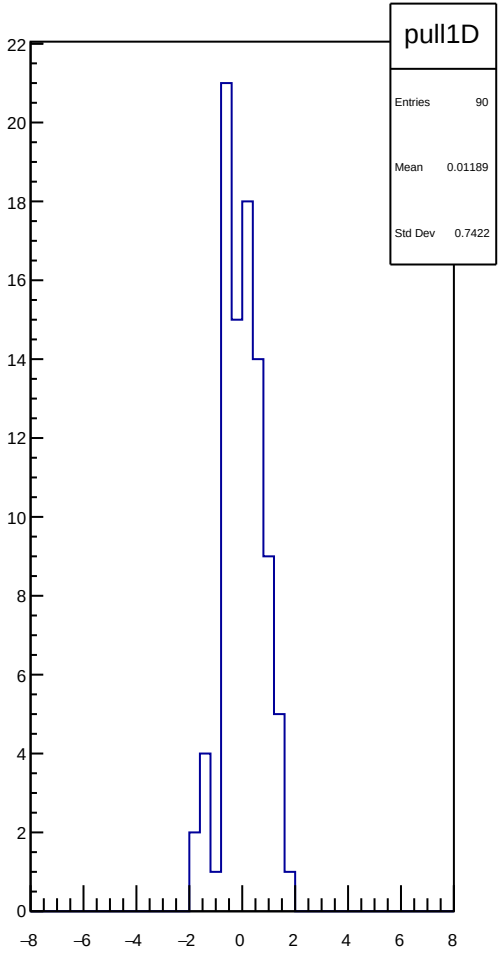

pull1D
Entries 90
Mean −0.03043
Std Dev 0.7282
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

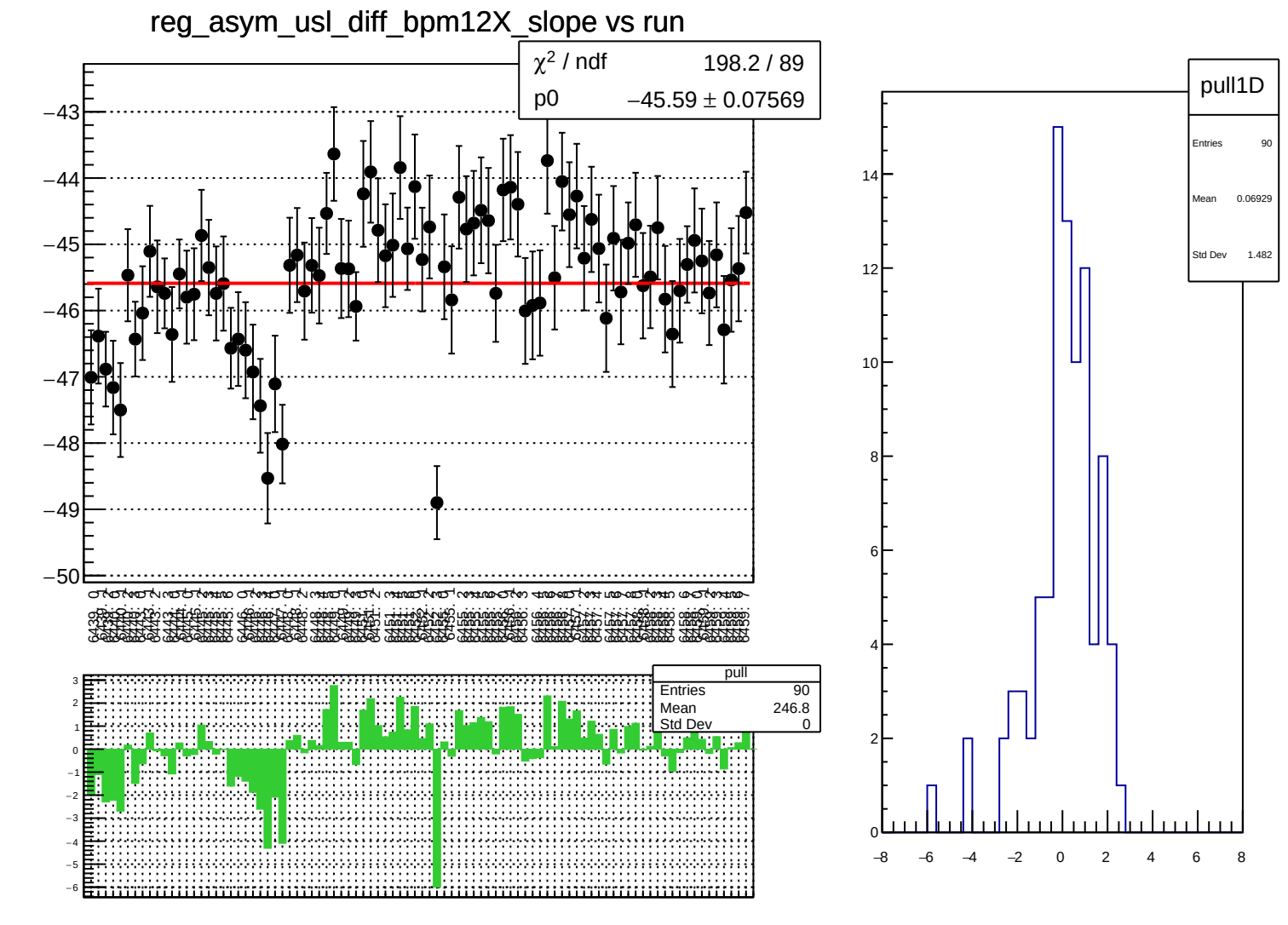

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 45.06 / 89
p0 20.03 ± 1.859
pull
Entries 90
Mean 102.8
Std Dev 0
pull1D
Entries 90
Mean −0.01841
Std Dev 0.7074

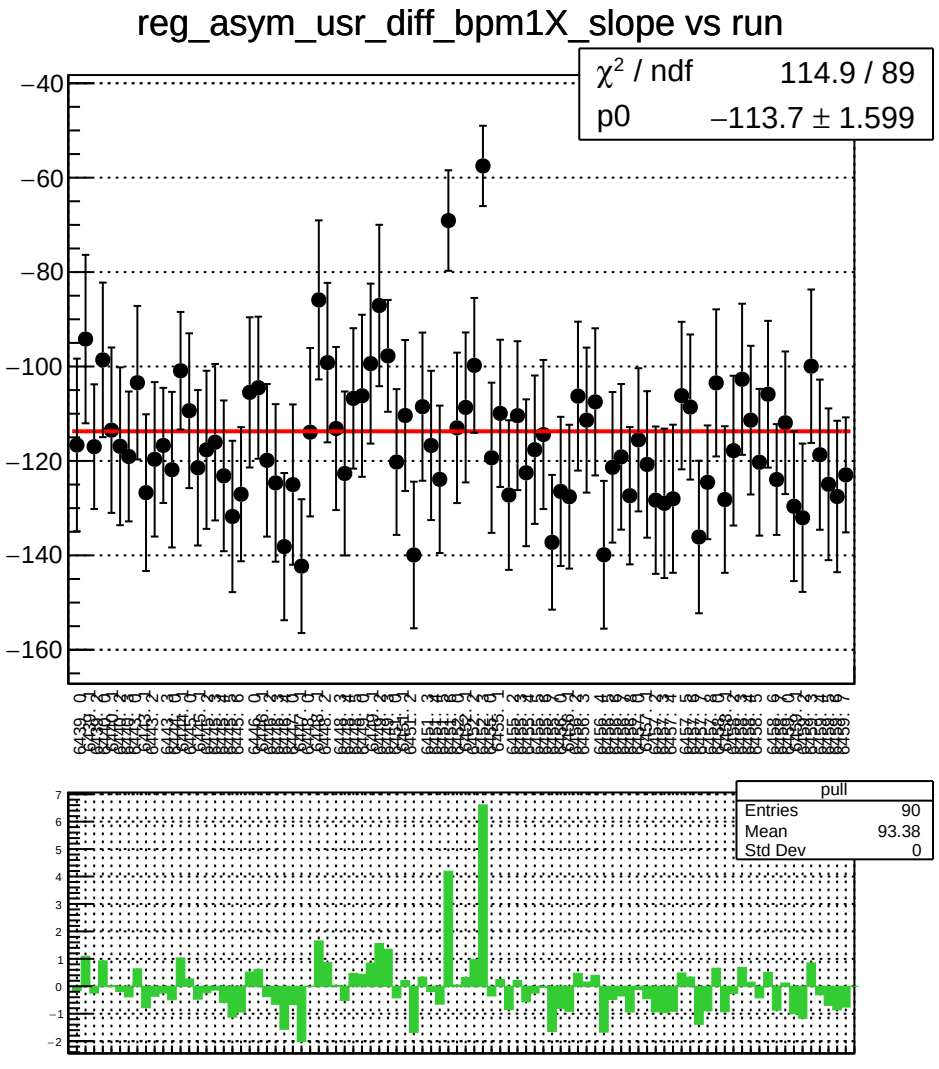

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 48.42 / 89
p0 50.26 ± 1.61
pull
Entries 90
Mean 53.75
Std Dev 70.26

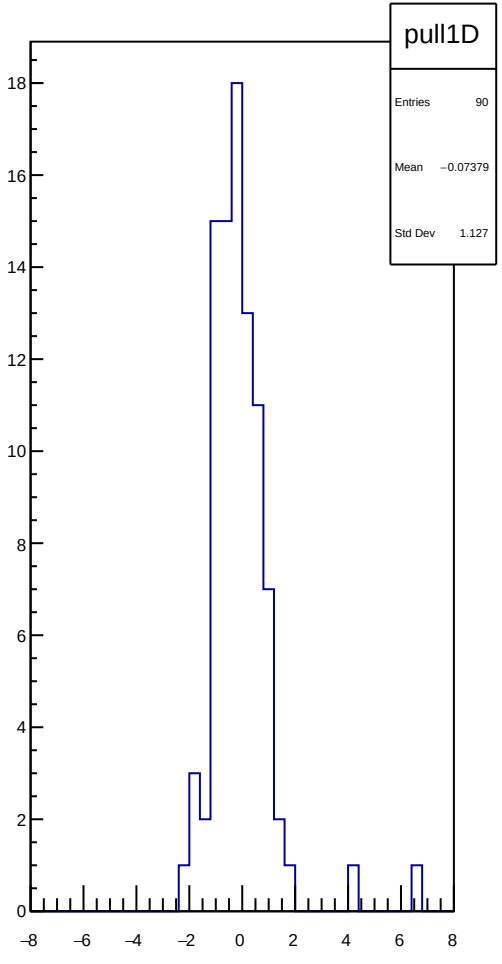

pull1D
Entries 90
Mean 0.03301
Std Dev 0.7328

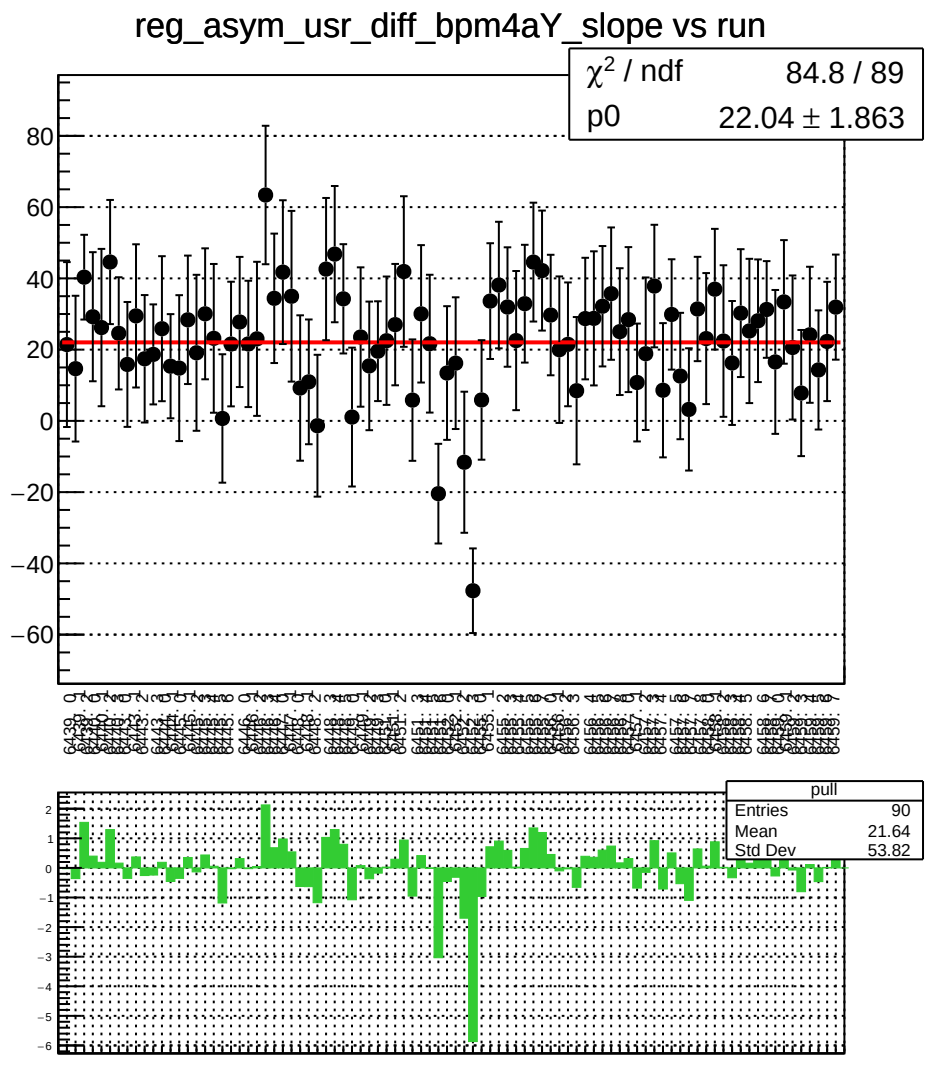

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 49.6 / 89
p0 −6.976 ± 1.862
pull
Entries 90
Mean 216.9
Std Dev 0

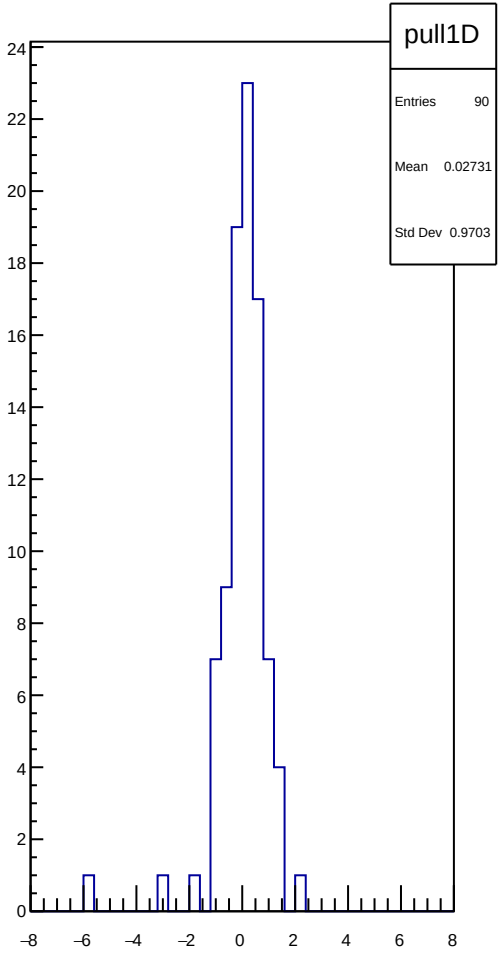

pull1D
Entries 90
Mean 0.01189
Std Dev 0.7422

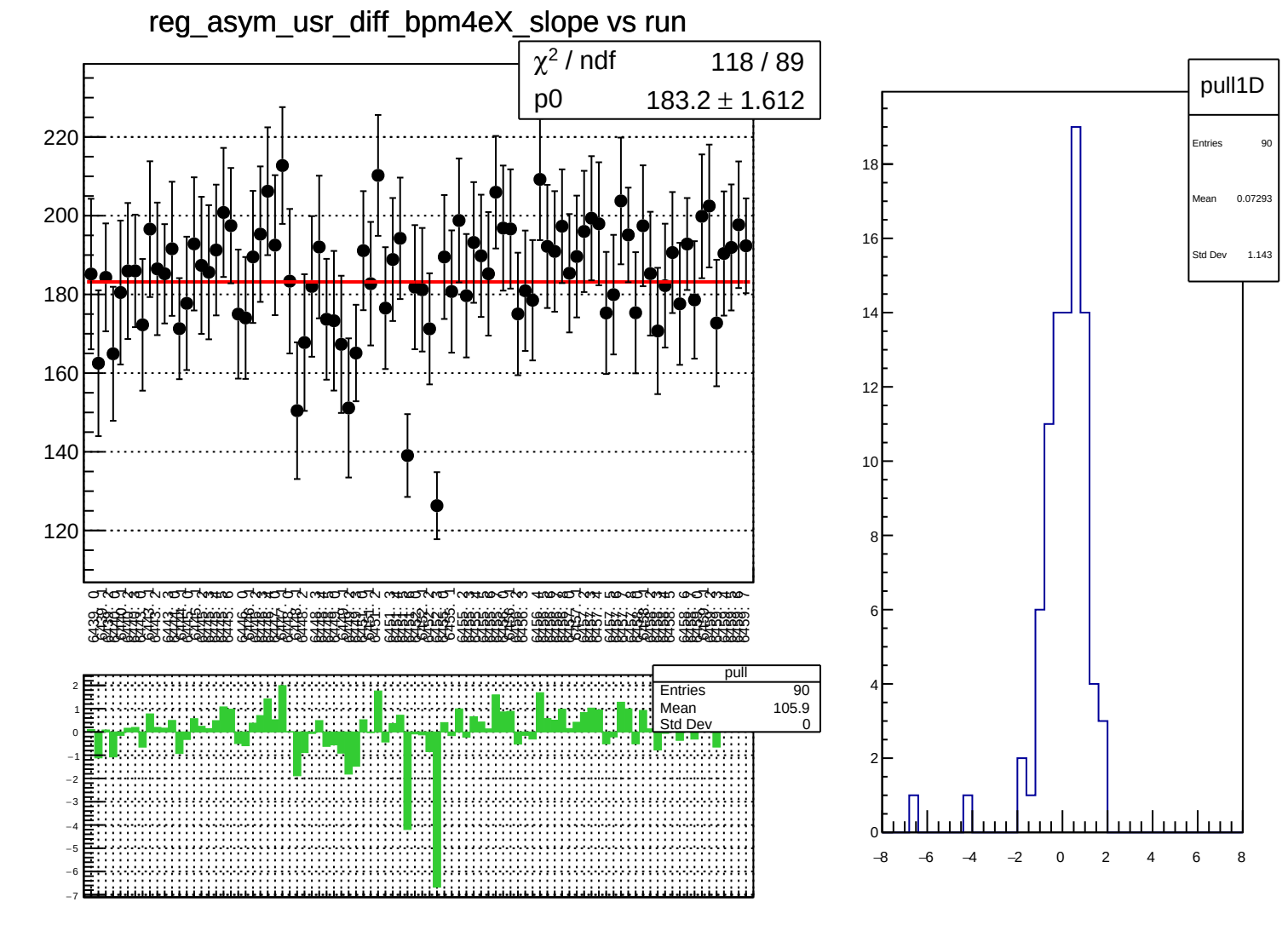

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 198.2 / 89
p0 −45.59 ± 0.07569
pull
Entries 90
Mean 246.8
Std Dev 0
pull1D
Entries 90
Mean 0.06929
Std Dev 1.482

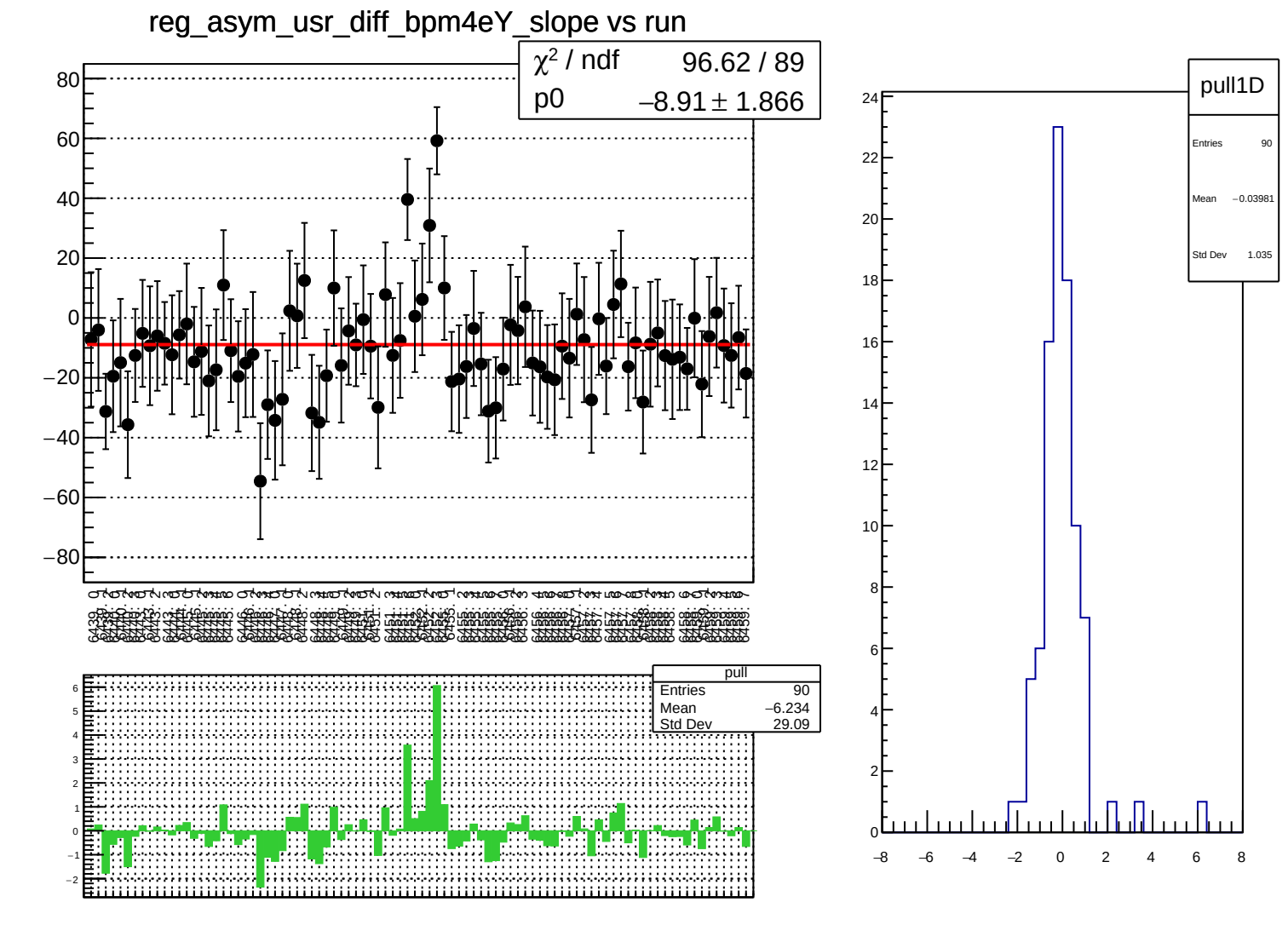

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 114.9 / 89
p0 −113.7 ± 1.599
pull
Entries 90
Mean 93.38
Std Dev 0

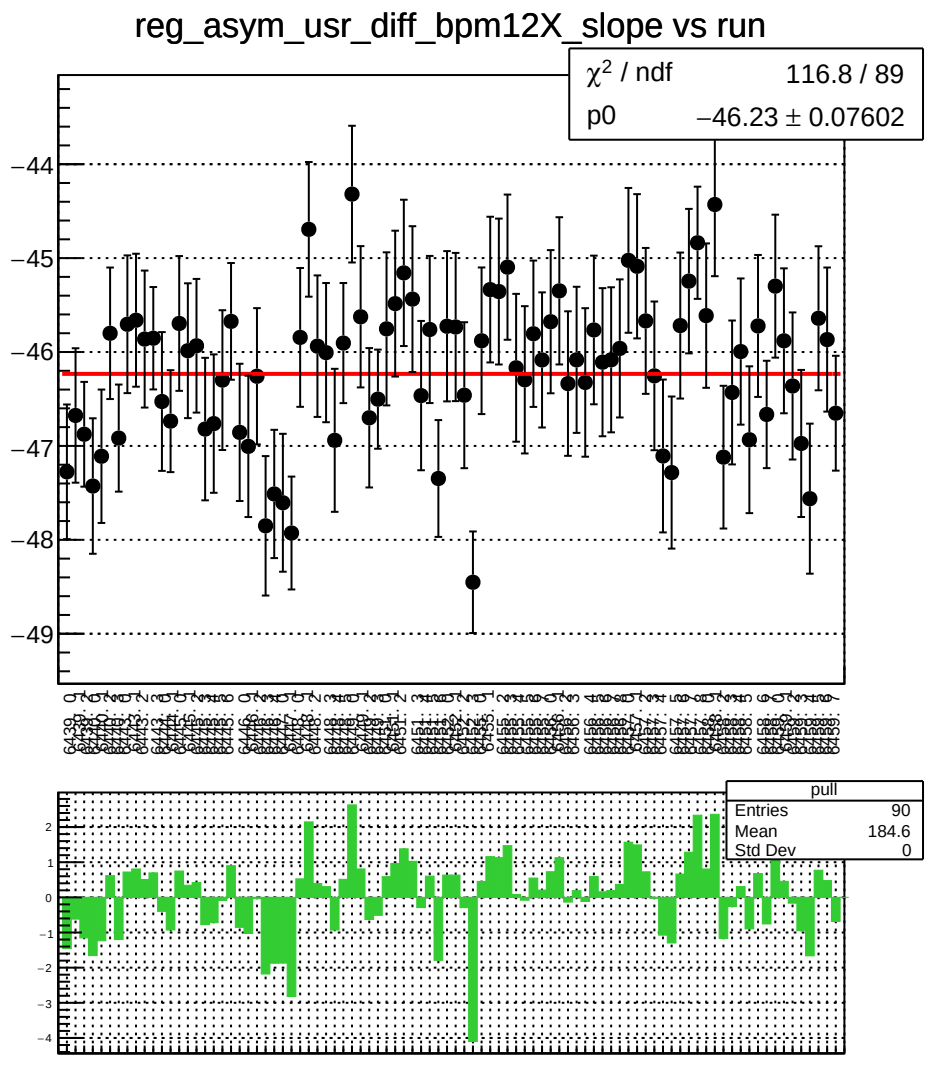

pull1D
Entries 90
Mean −0.07379
Std Dev 1.127

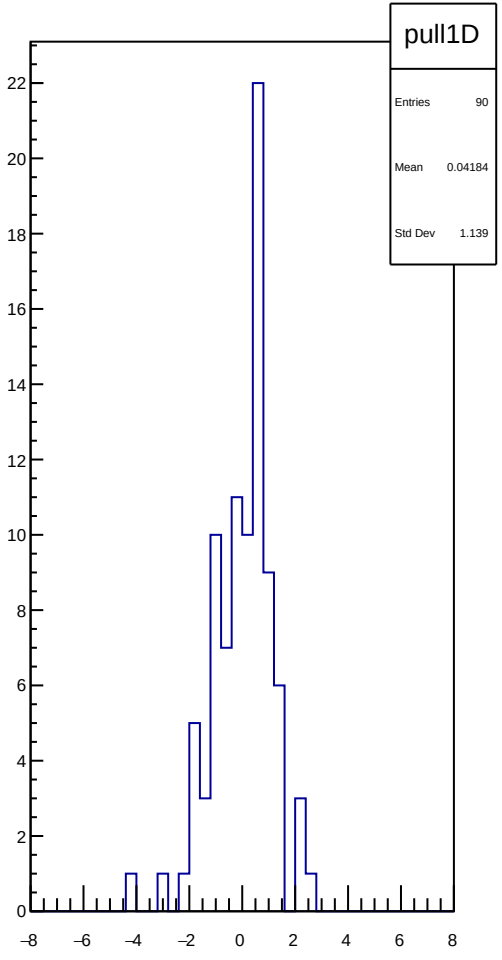

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 84.8 / 89
p0 22.04 ± 1.863
pull
Entries 90
Mean 21.64
Std Dev 53.82

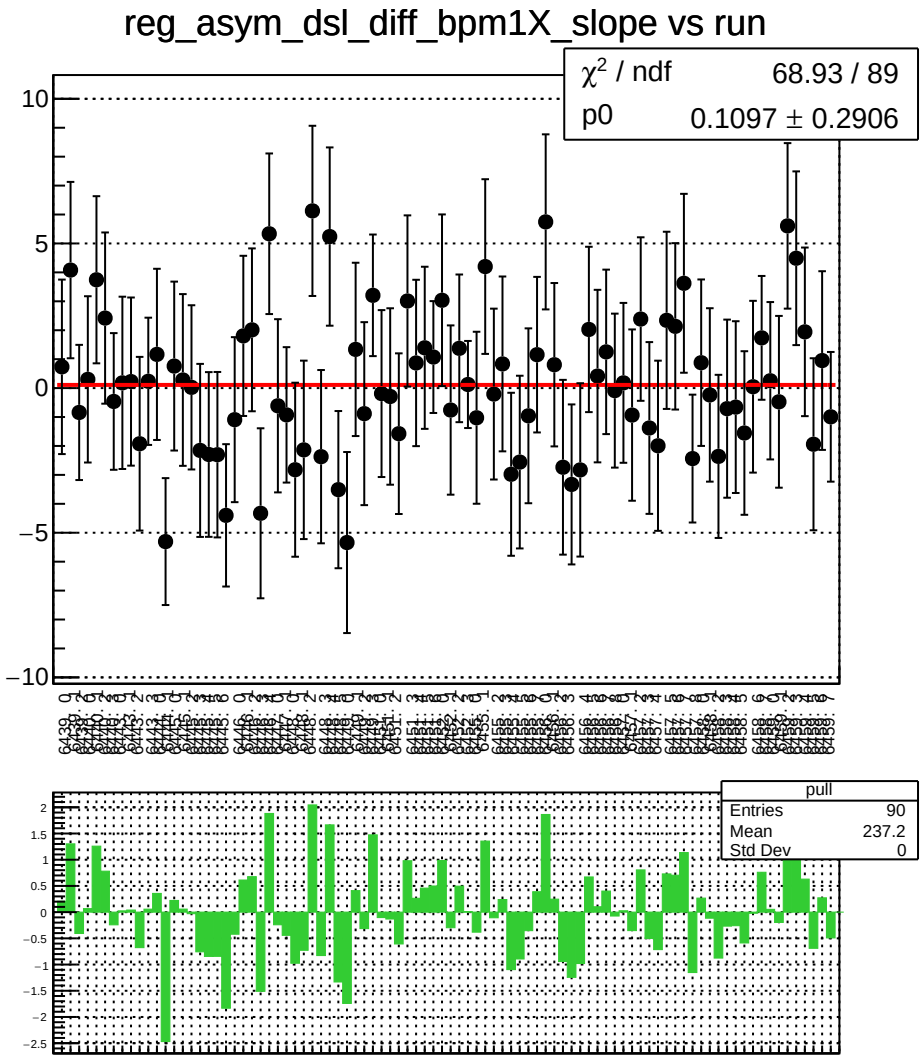

pull1D
Entries 90
Mean 0.02731
Std Dev 0.9703

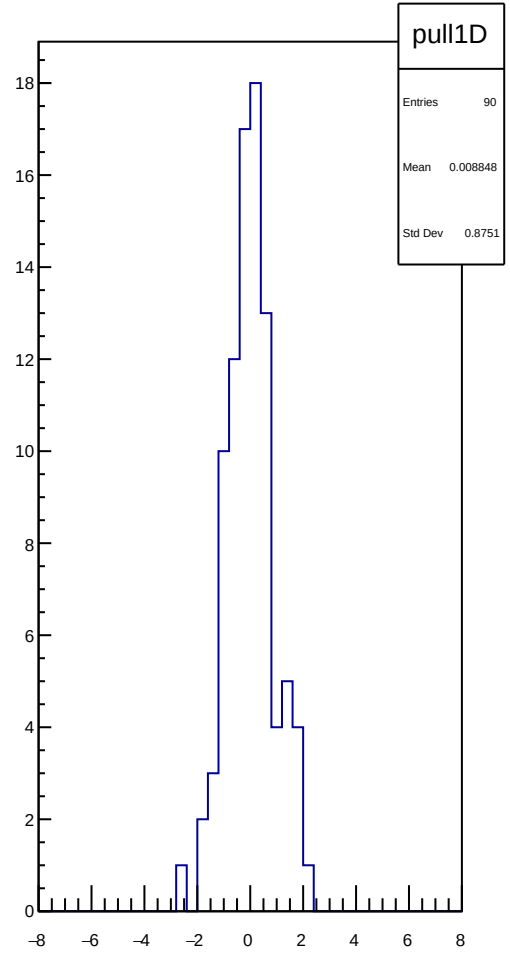

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 118 / 89
p0 183.2 ± 1.612
220
200
180
160
140
120
pull
Entries 90
Mean 105.9
Std Dev 0
2
1
0
−1
−2
−3
−4
−5
−6
−7
pull1D
Entries 90
Mean 0.07293
Std Dev 1.143
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

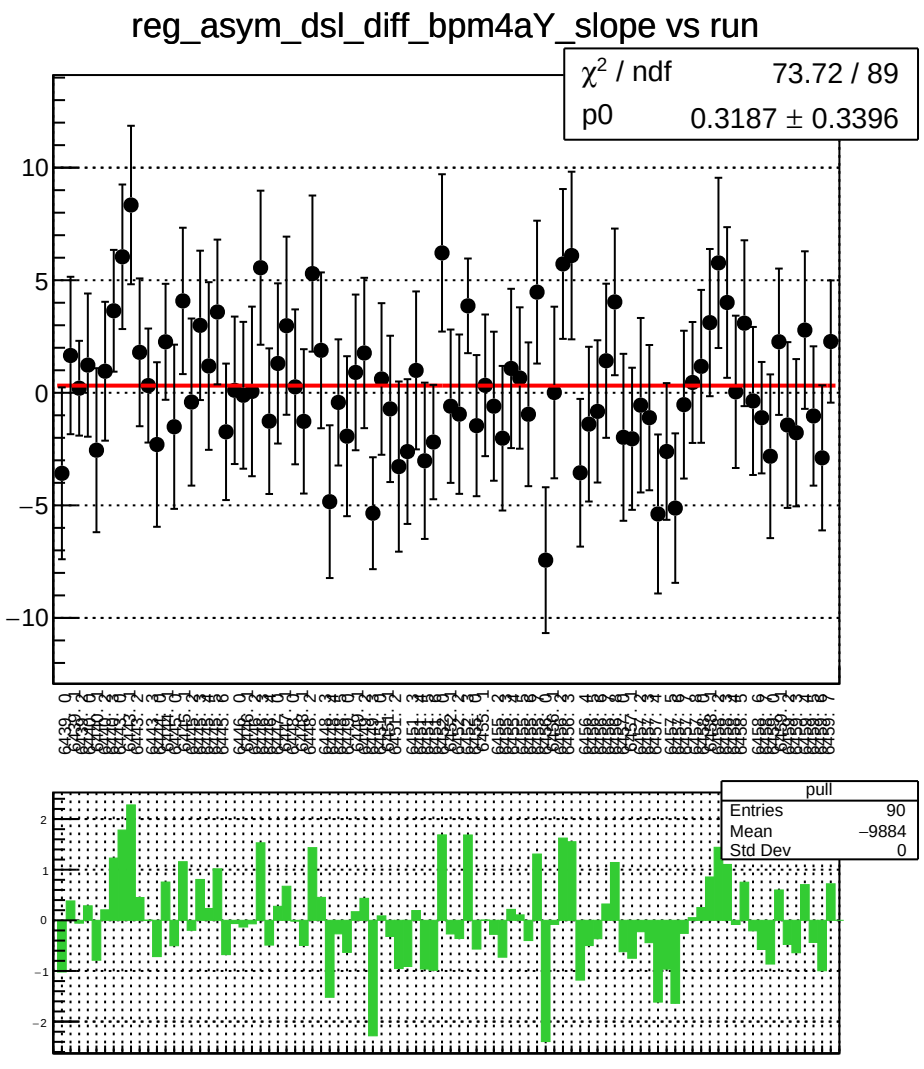

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 96.62 / 89
p0 −8.91 ± 1.866
pull
Entries 90
Mean −6.234
Std Dev 29.09
pull1D
Entries 90
Mean −0.03981
Std Dev 1.035

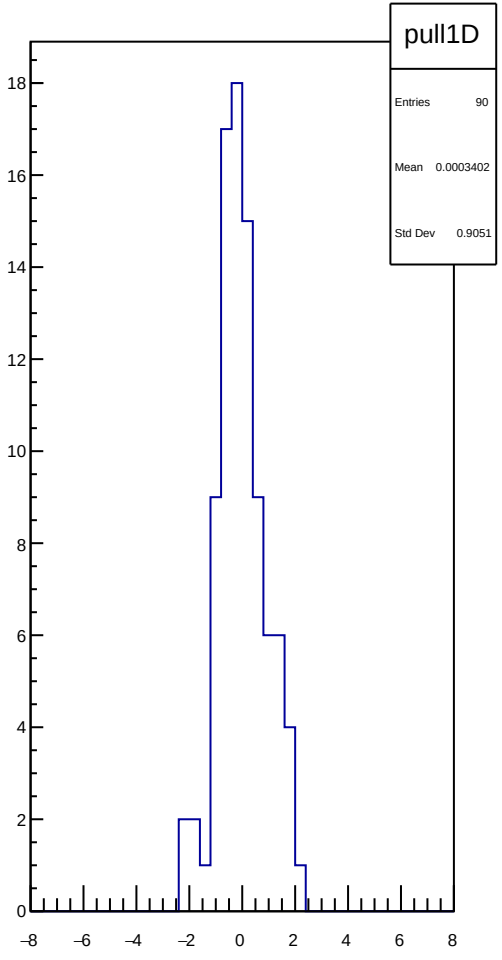

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 116.8 / 89
p0 −46.23 ± 0.07602
pull
Entries 90
Mean 184.6
Std Dev 0

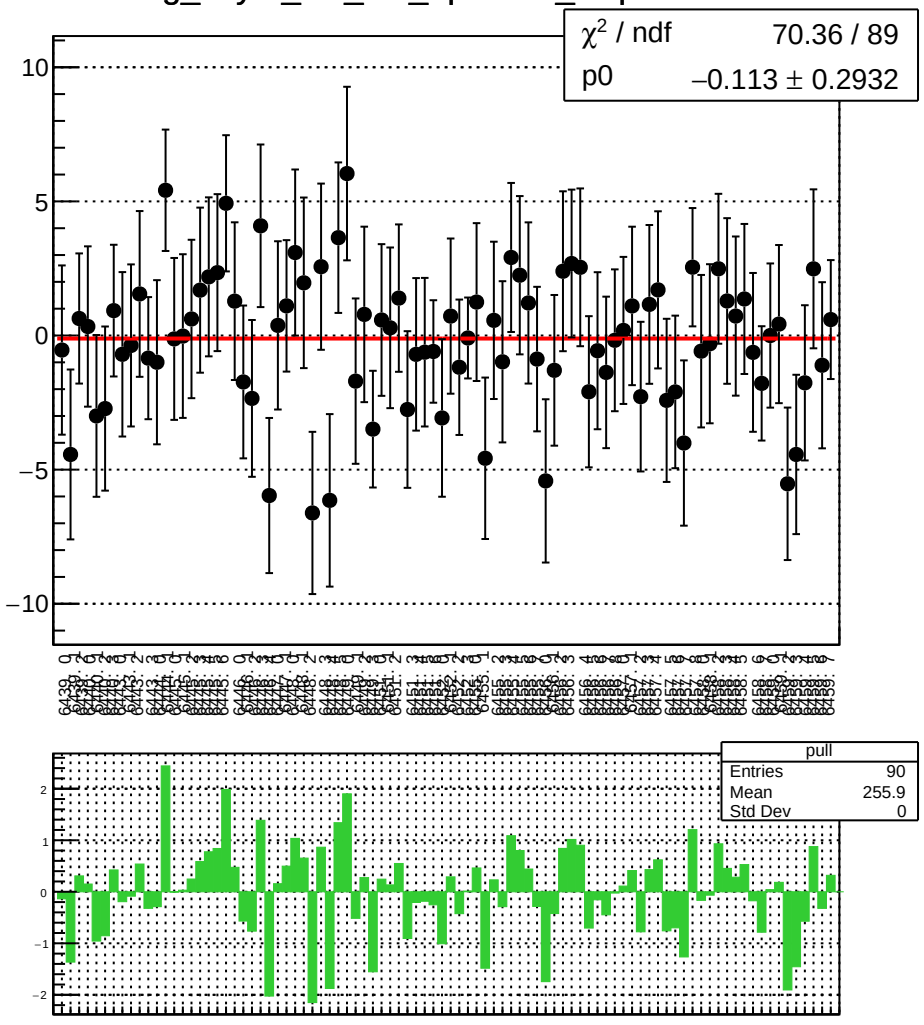

pull1D
Entries 90
Mean 0.04184
Std Dev 1.139

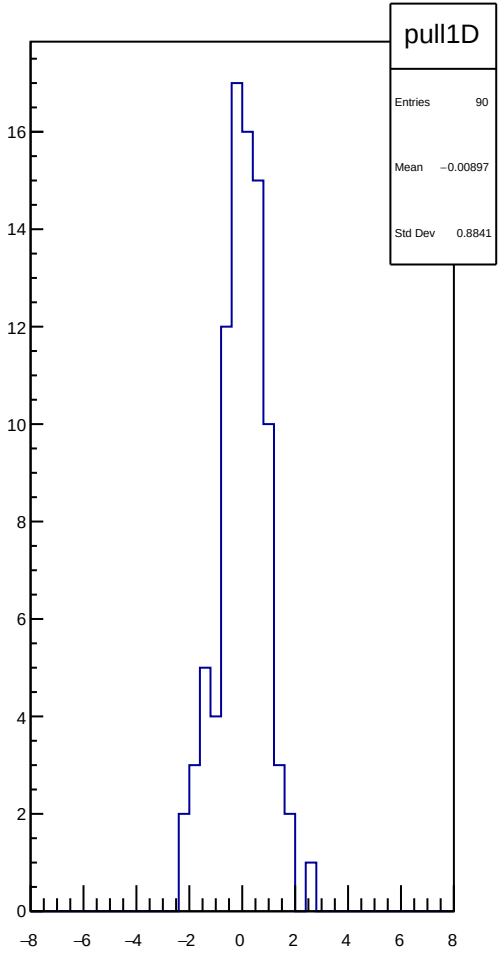

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 68.93 / 89
p0 0.1097 ± 0.2906
pull
Entries 90
Mean 237.2
Std Dev 0

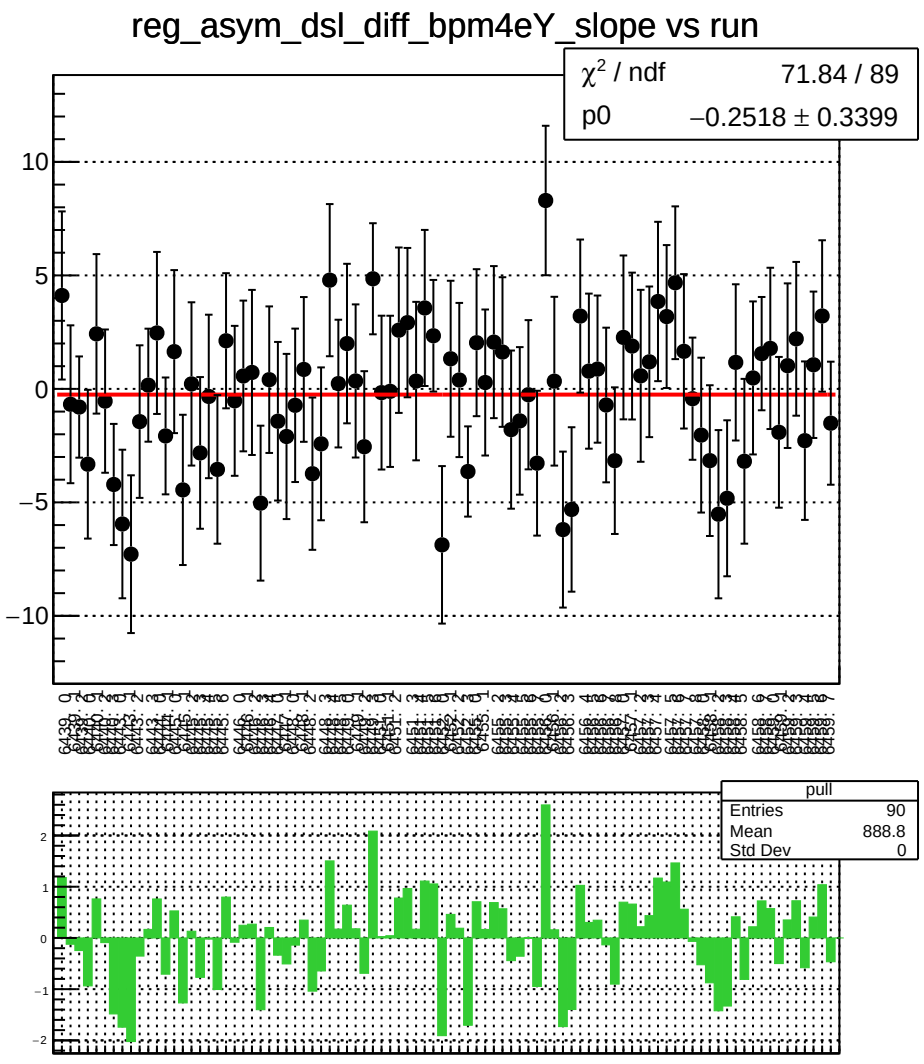

pull1D
Entries 90
Mean 0.008848
Std Dev 0.8751

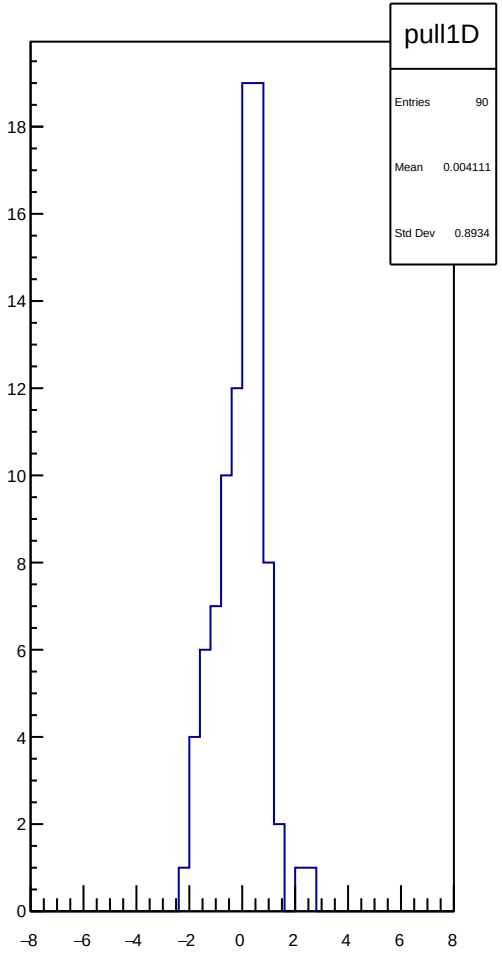

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 73.72 / 89
p0 0.3187 ± 0.3396
pull
Entries 90
Mean −9884
Std Dev 0

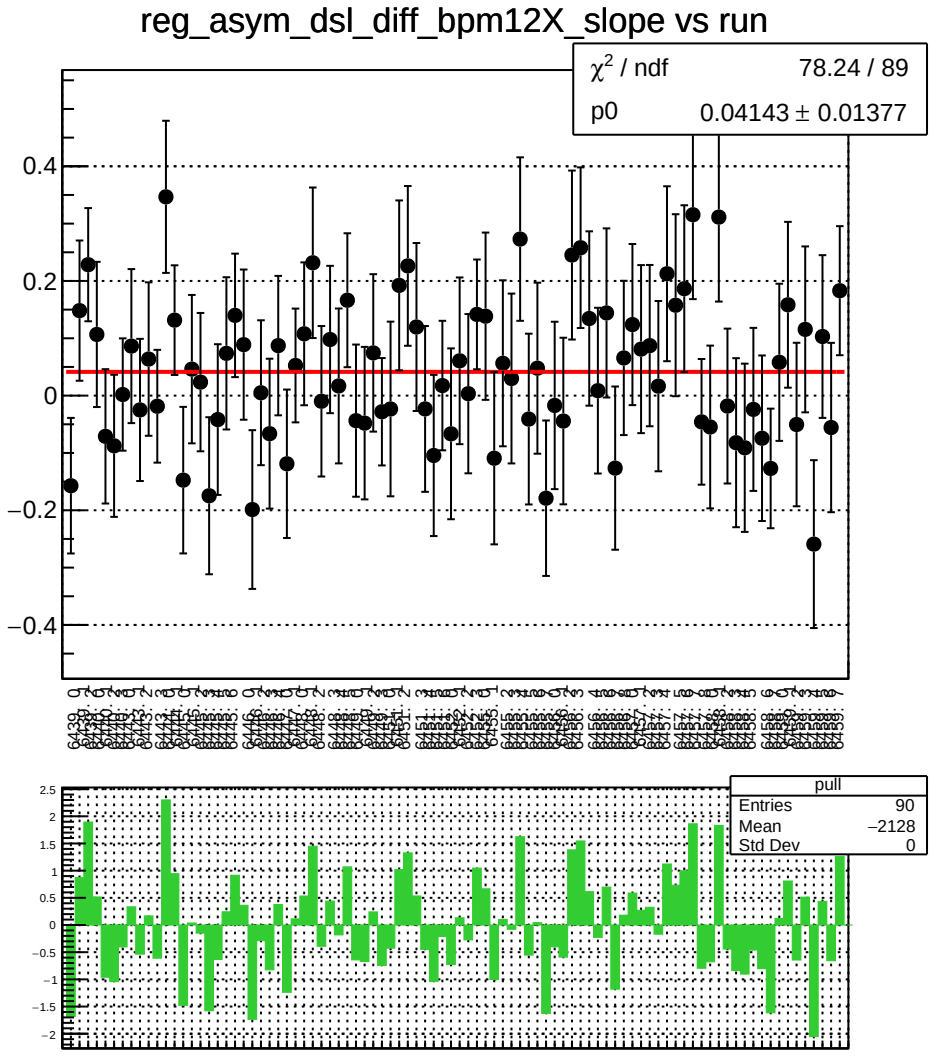

pull1D
Entries 90
Mean 0.0003402
Std Dev 0.9051

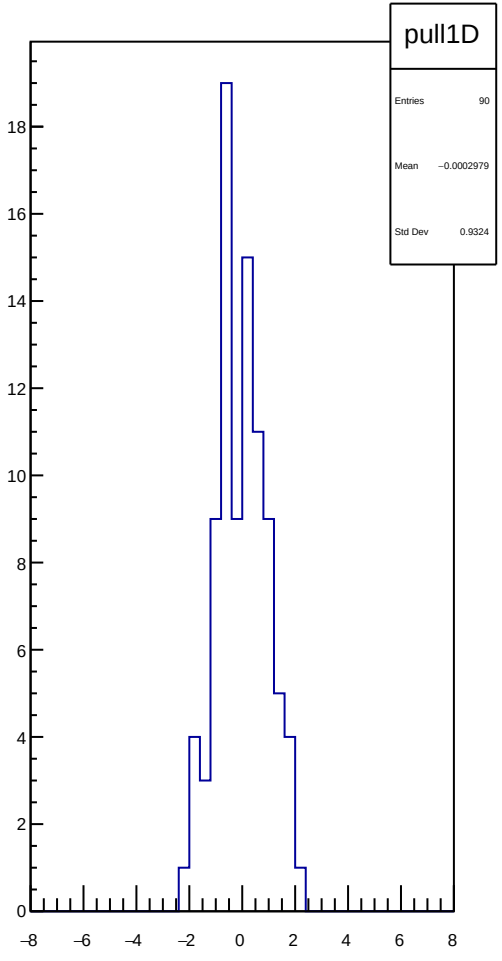

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 70.36 / 89
p0 −0.113 ± 0.2932
pull
Entries 90
Mean 255.9
Std Dev 0

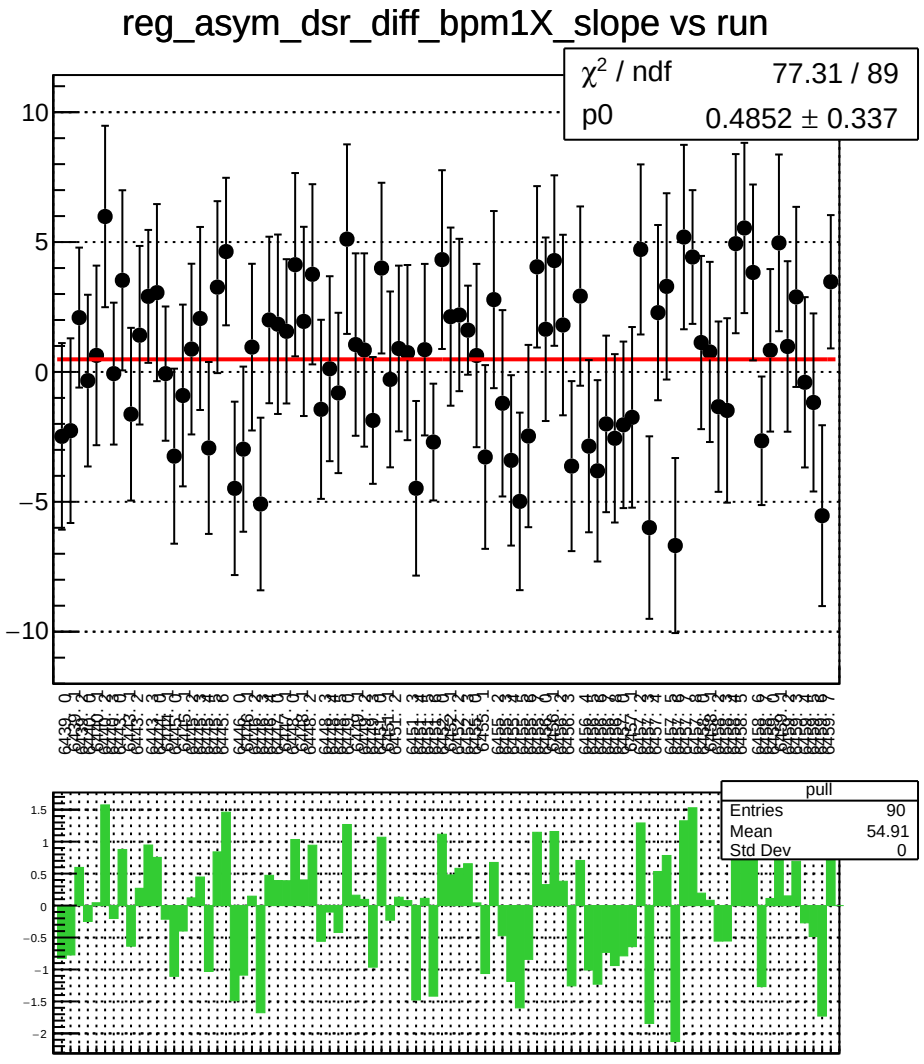

pull1D
Entries 90
Mean −0.00897
Std Dev 0.8841

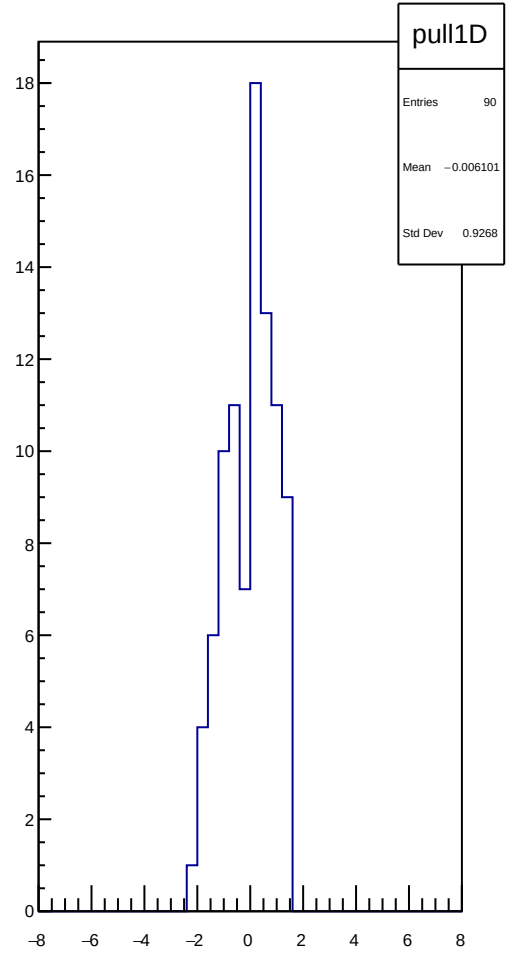

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 71.84 / 89
p0 −0.2518 ± 0.3399
pull
Entries 90
Mean 888.8
Std Dev 0

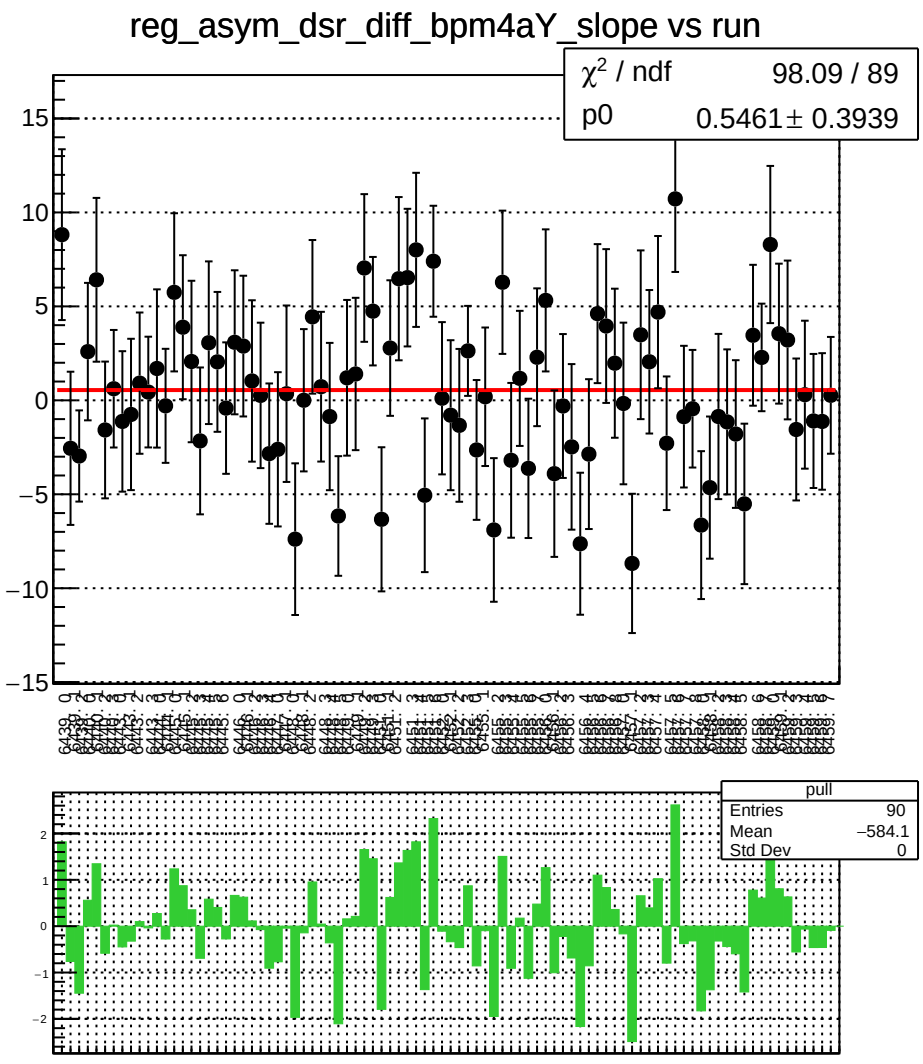

pull1D
Entries 90
Mean 0.004111
Std Dev 0.8934

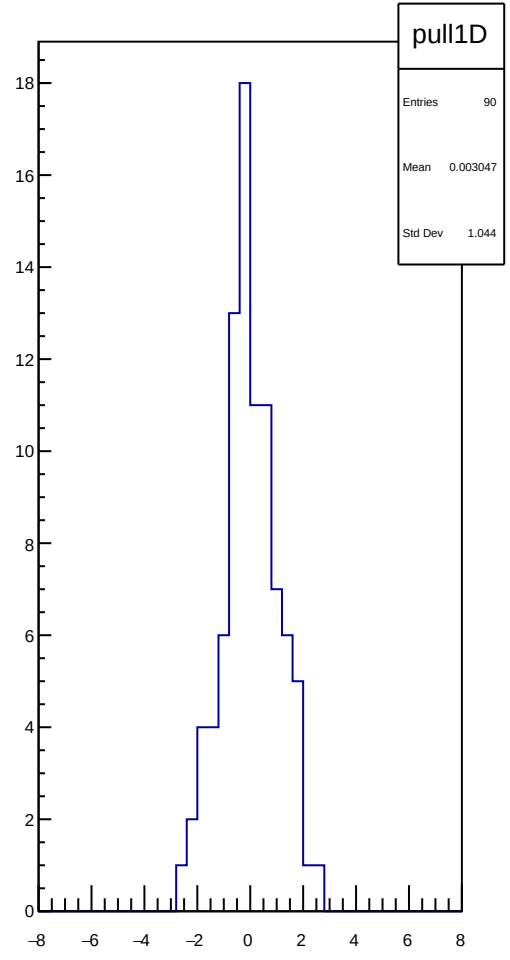

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 78.24 / 89
p0 0.04143 ± 0.01377
pull
Entries 90
Mean −2128
Std Dev 0

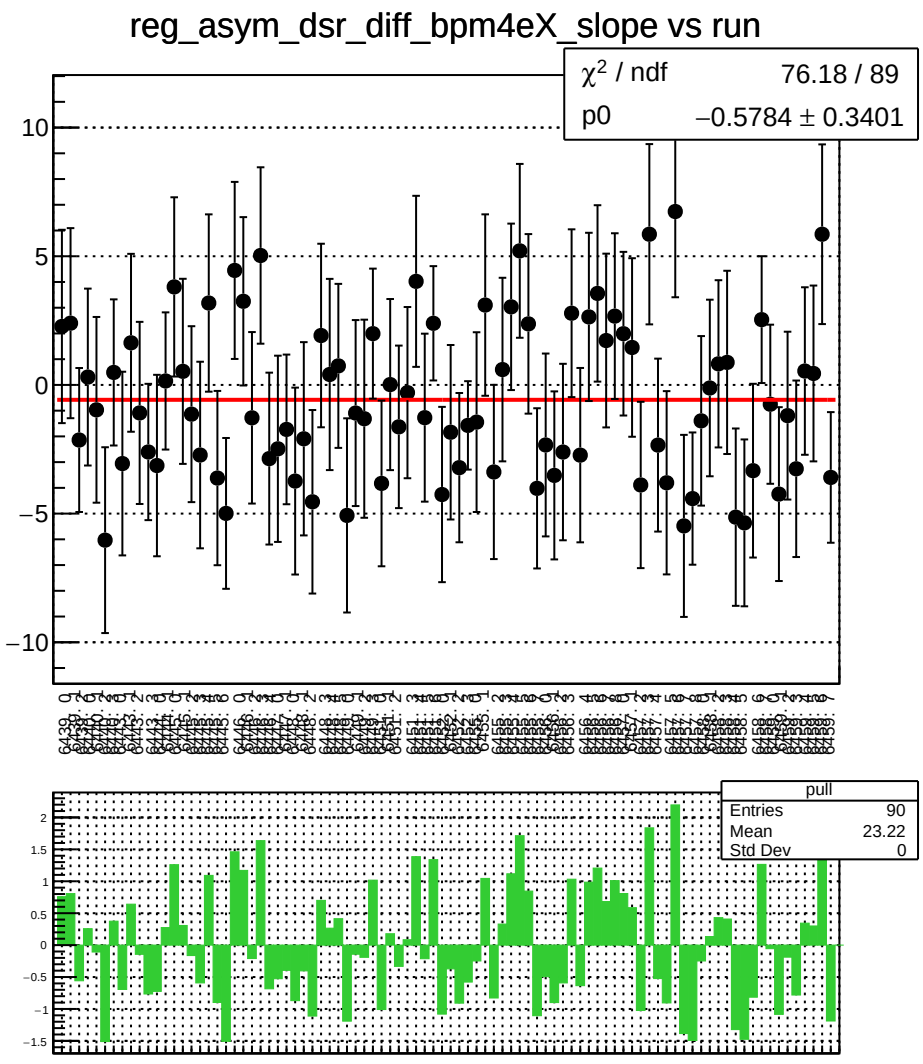

pull1D
Entries 90
Mean −0.0002979
Std Dev 0.9324

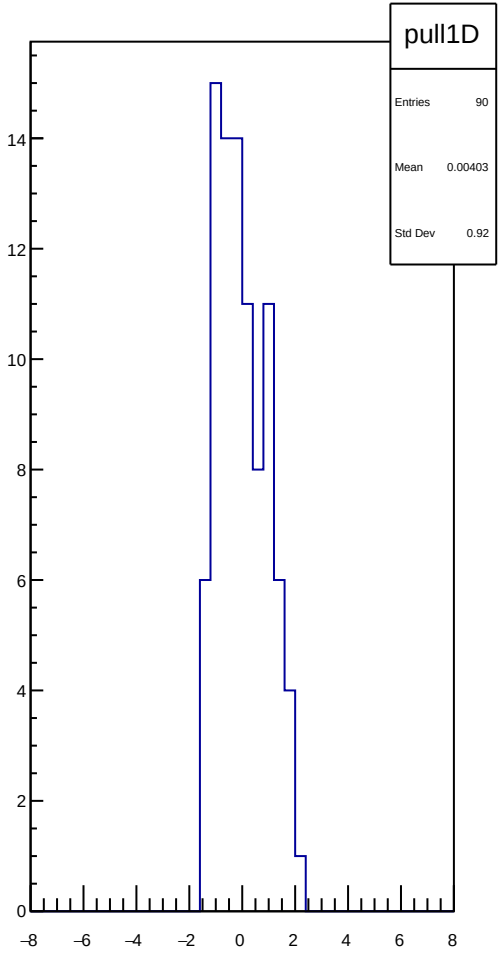

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 77.31 / 89
p0 0.4852 ± 0.337
pull
Entries 90
Mean 54.91
Std Dev 0

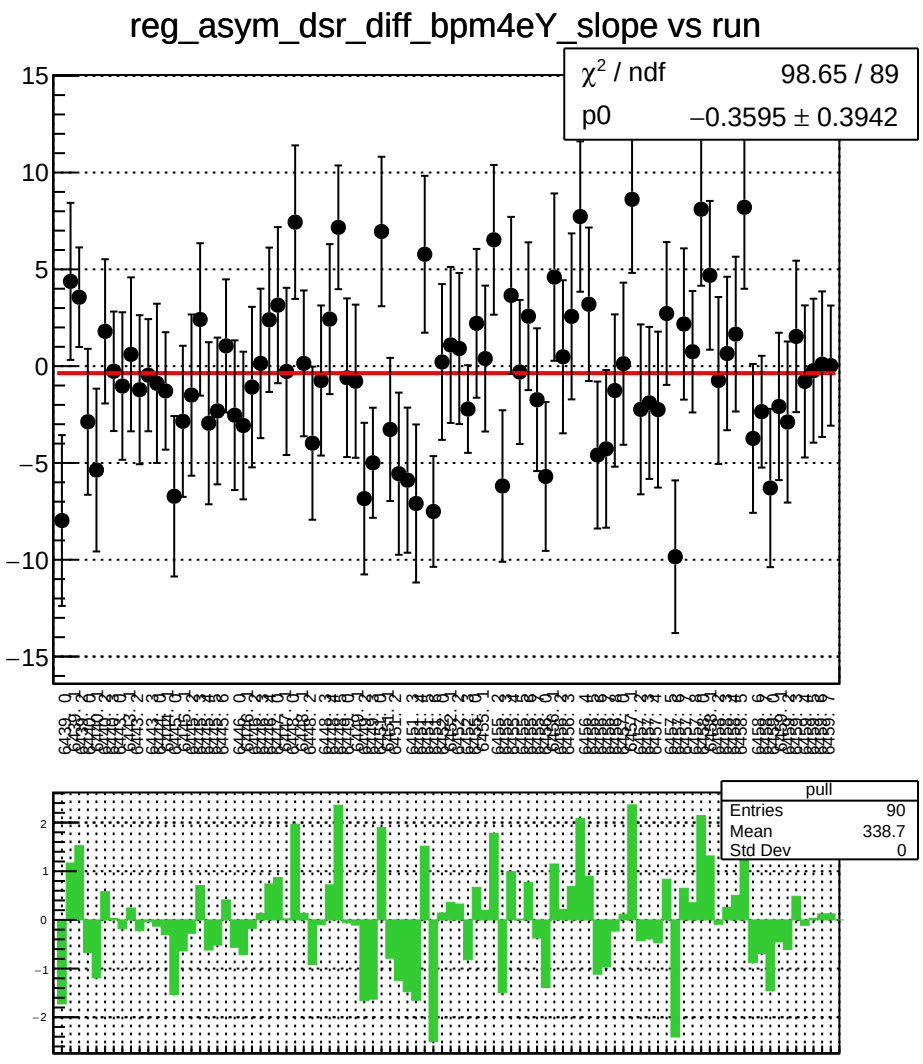

pull1D
Entries 90
Mean −0.006101
Std Dev 0.9268

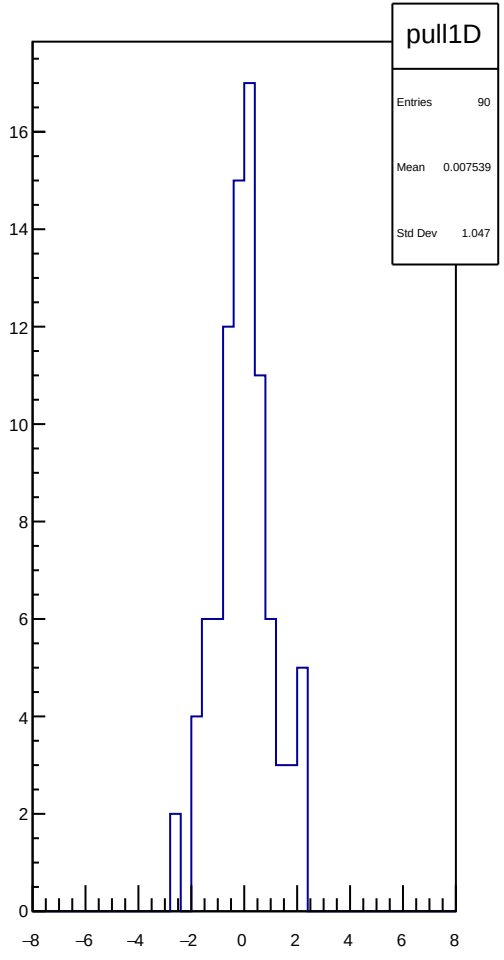

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 98.09 / 89
p0 0.5461 ± 0.3939
pull
Entries 90
Mean −584.1
Std Dev 0

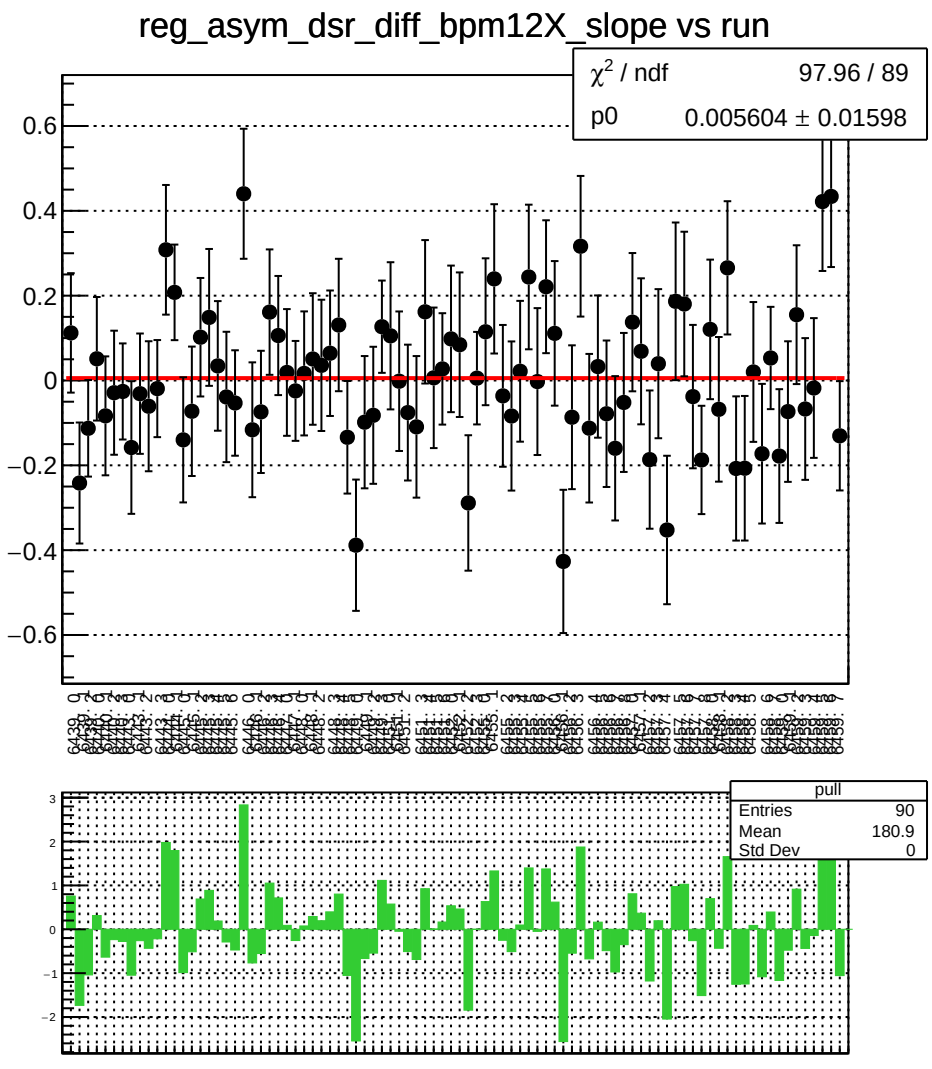

pull1D
Entries 90
Mean 0.003047
Std Dev 1.044

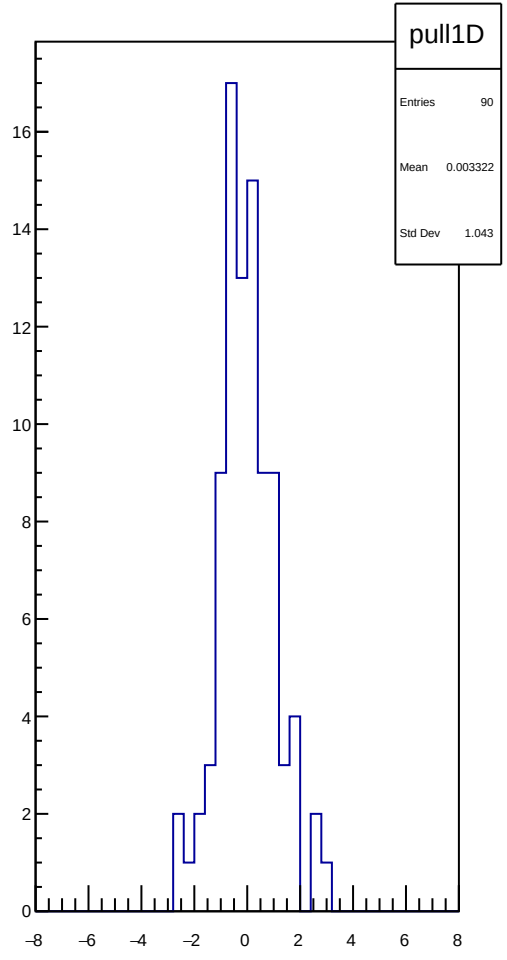

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 76.18 / 89
p0 −0.5784 ± 0.3401
pull
Entries 90
Mean 23.22
Std Dev 0

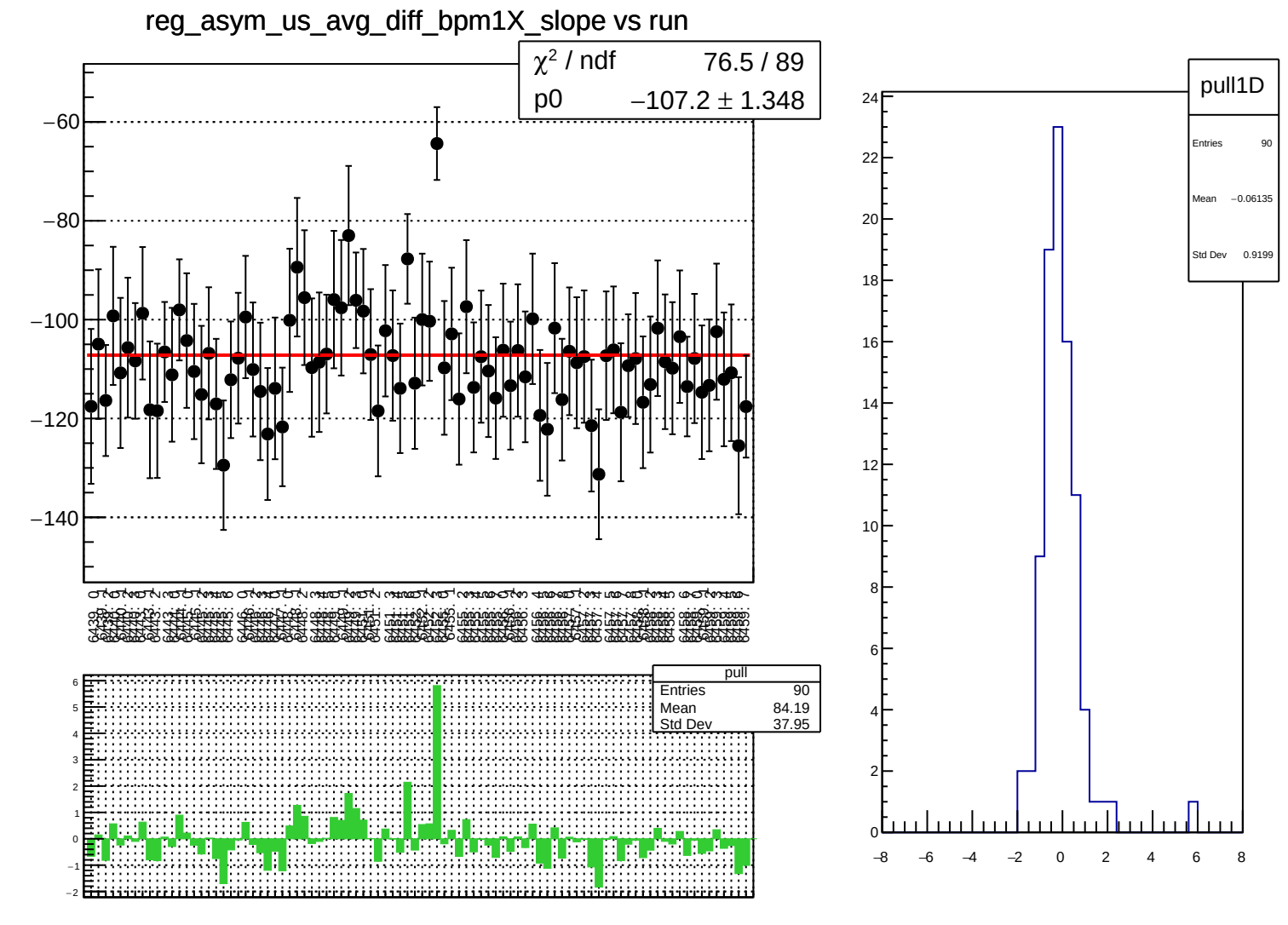

pull1D
Entries 90
Mean 0.00403
Std Dev 0.92

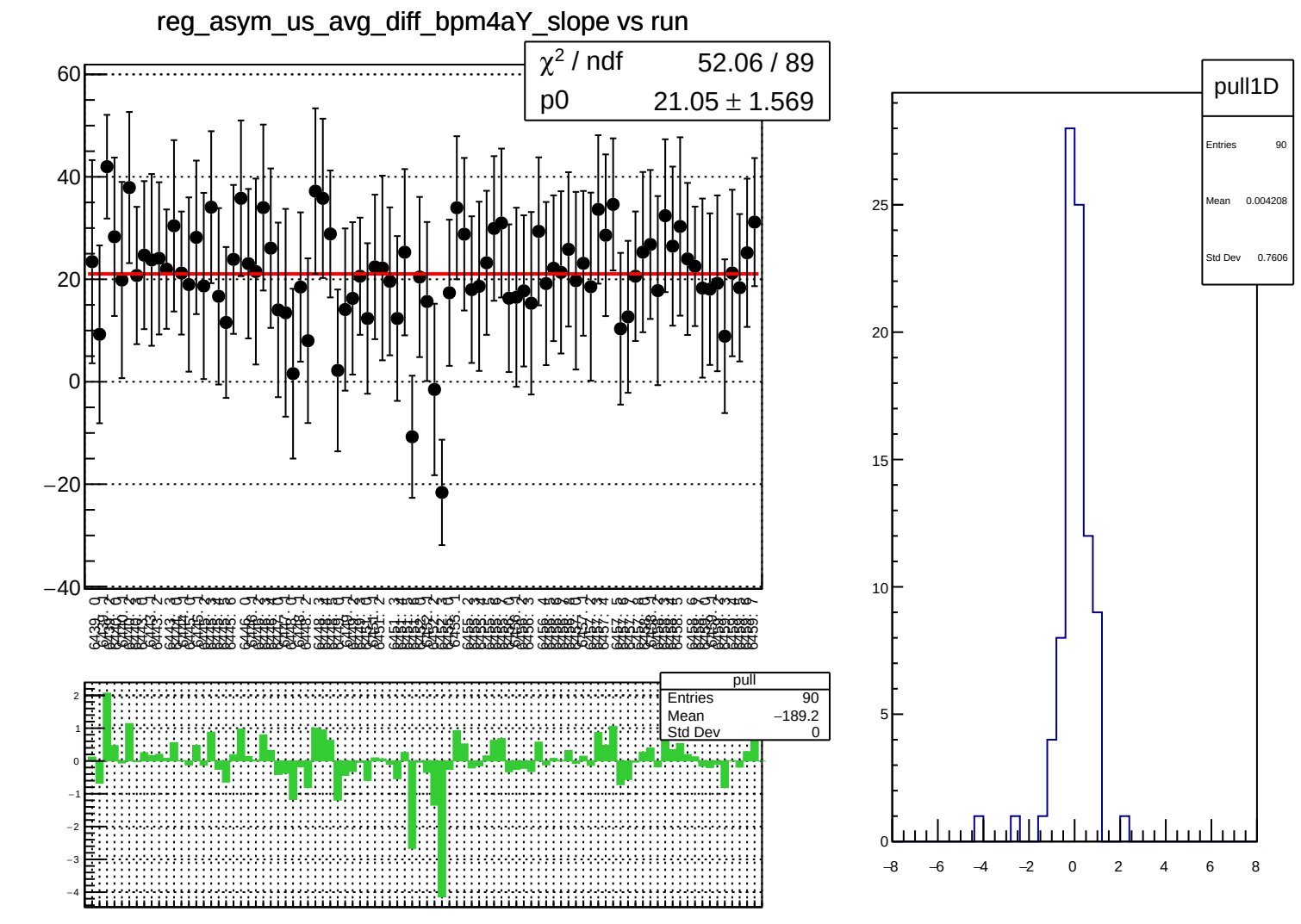

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 98.65 / 89
p0 −0.3595 ± 0.3942
pull
Entries 90
Mean 338.7
Std Dev 0

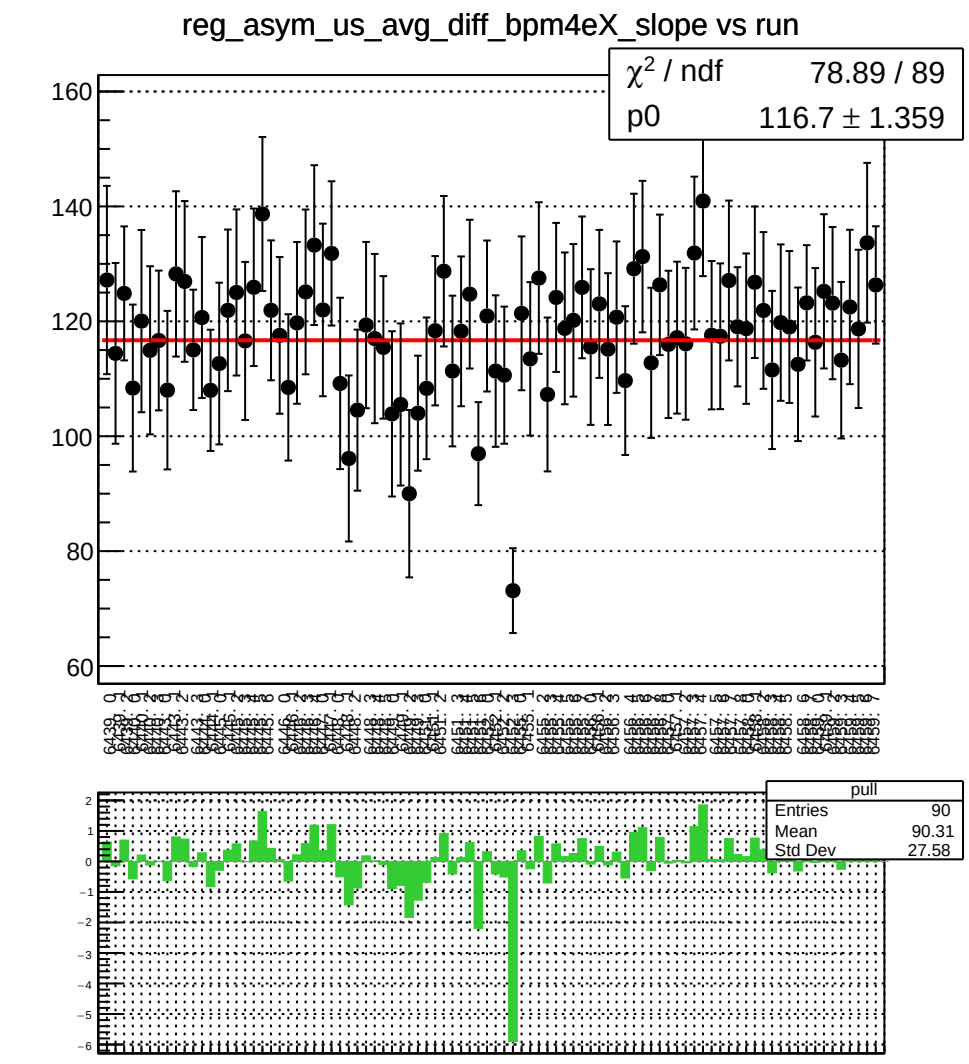

pull1D
Entries 90
Mean 0.007539
Std Dev 1.047

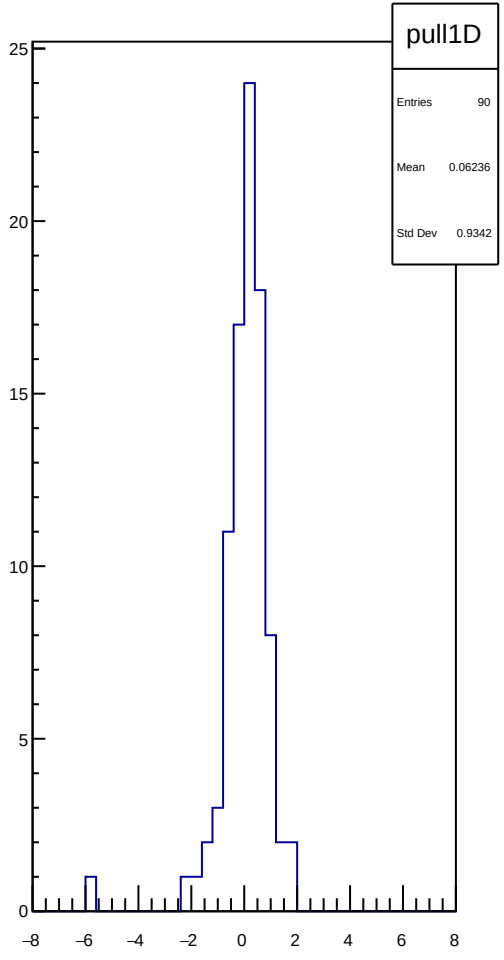

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 97.96 / 89
p0 0.005604 ± 0.01598
pull
Entries 90
Mean 180.9
Std Dev 0

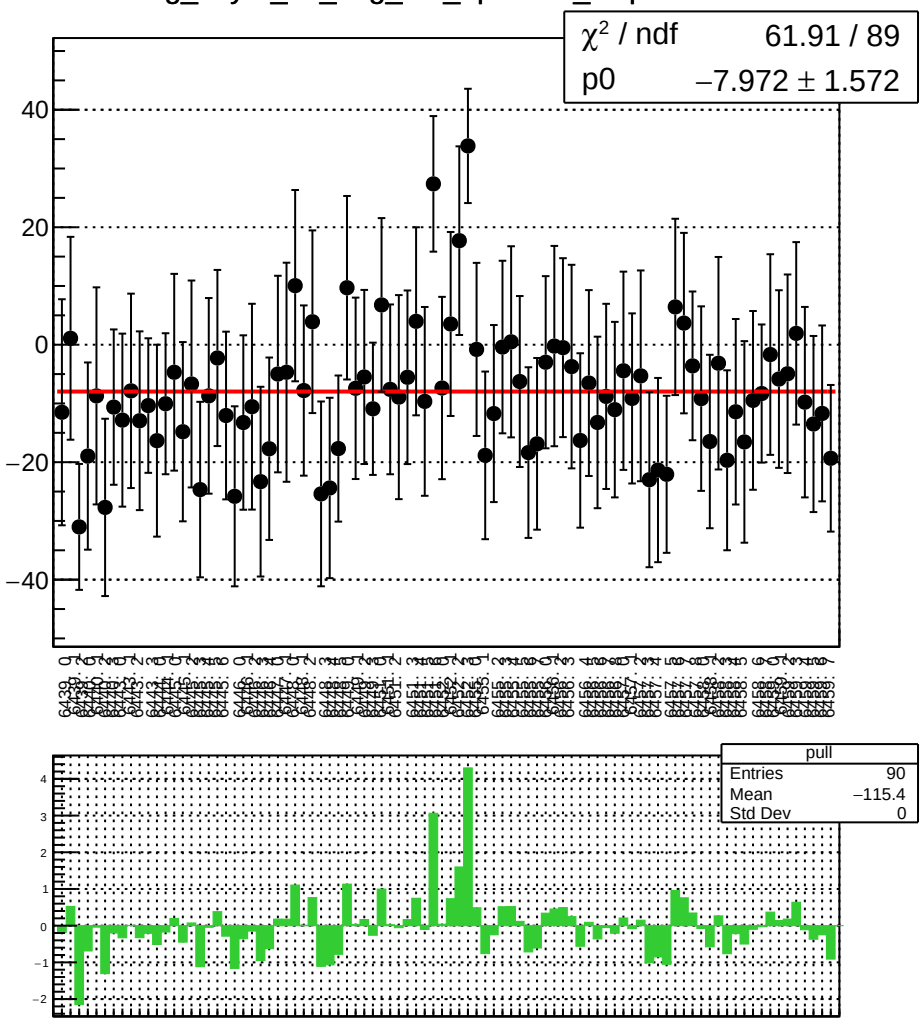

pull1D
Entries 90
Mean 0.003322
Std Dev 1.043

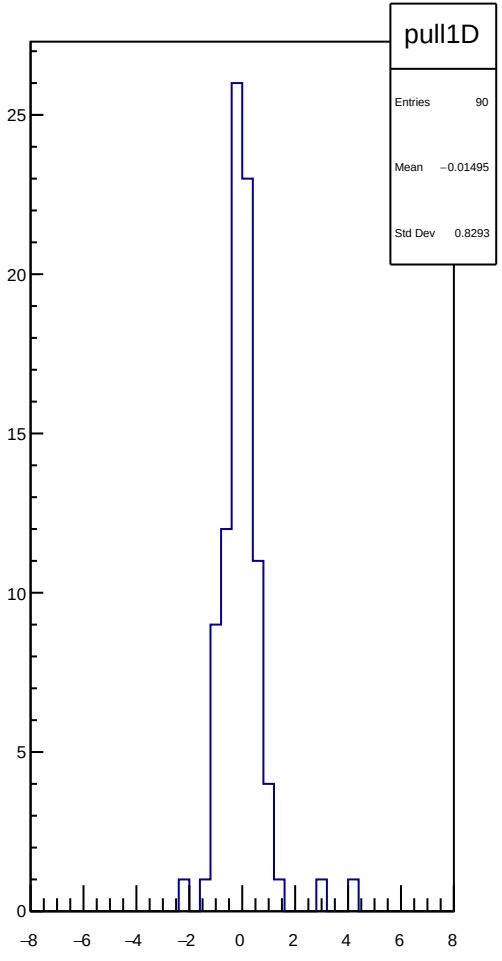

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 76.5 / 89
p0 −107.2 ± 1.348
pull
Entries 90
Mean 84.19
Std Dev 37.95
pull1D
Entries 90
Mean −0.06135
Std Dev 0.9199

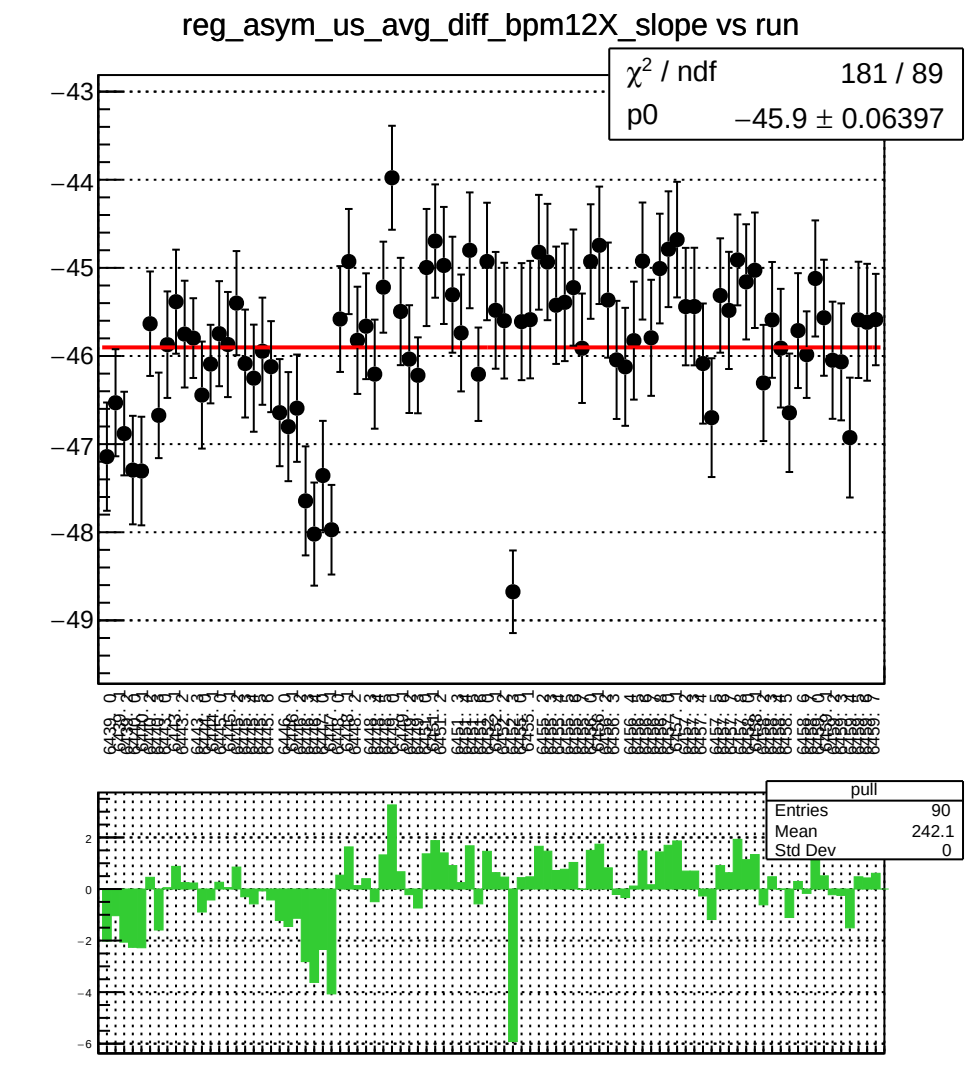

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 52.06 / 89
p0 21.05 ± 1.569
pull
Entries 90
Mean −189.2
Std Dev 0
pull1D
Entries 90
Mean 0.004208
Std Dev 0.7606

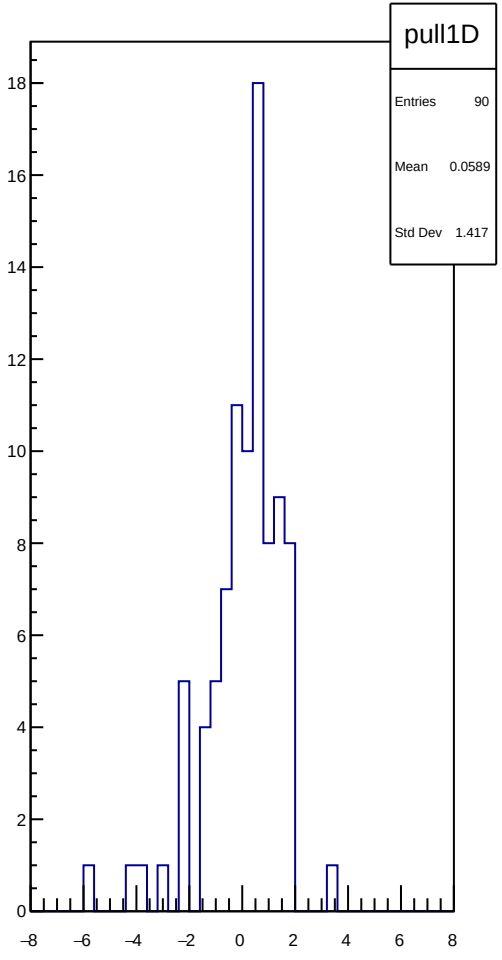

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 78.89 / 89
p0 116.7 ± 1.359
160
140
120
100
80
60
pull
Entries 90
Mean 90.31
Std Dev 27.58
2
1
0
−1
−2
−3
−4
−5
−6

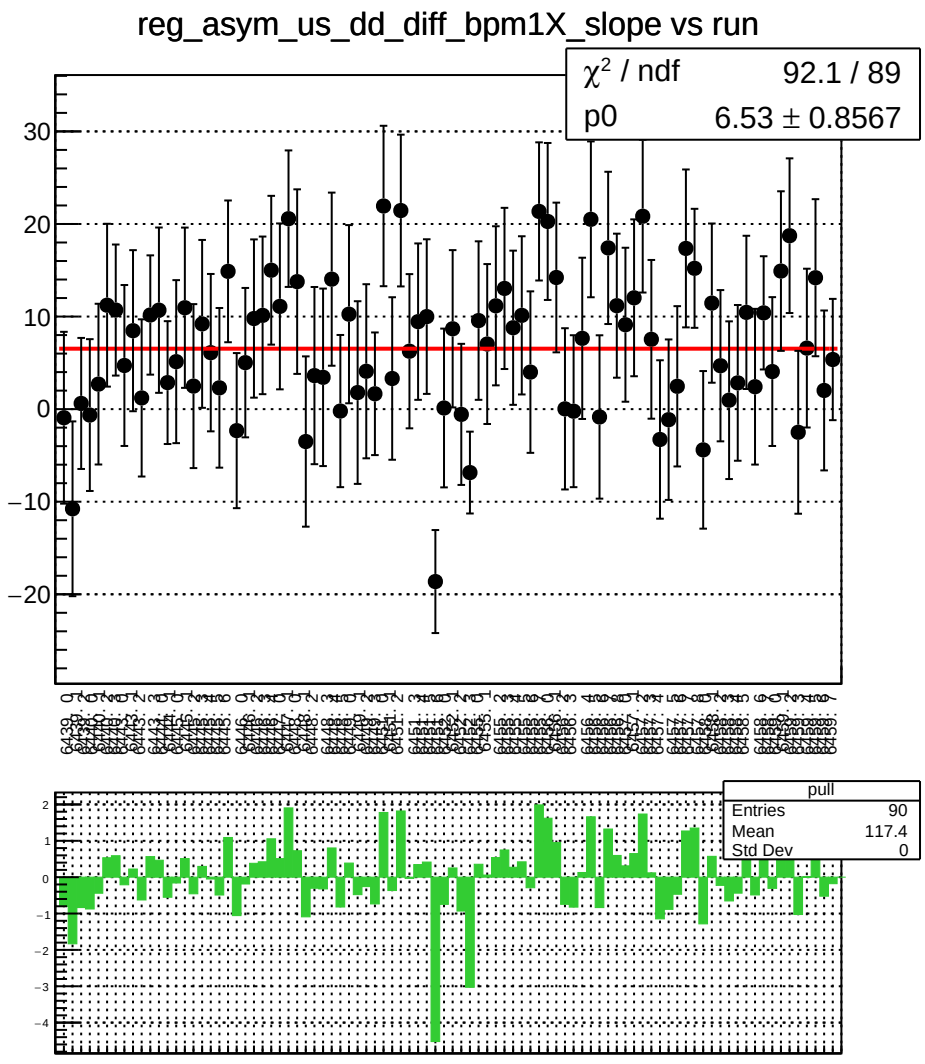

pull1D
Entries 90
Mean 0.06236
Std Dev 0.9342
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

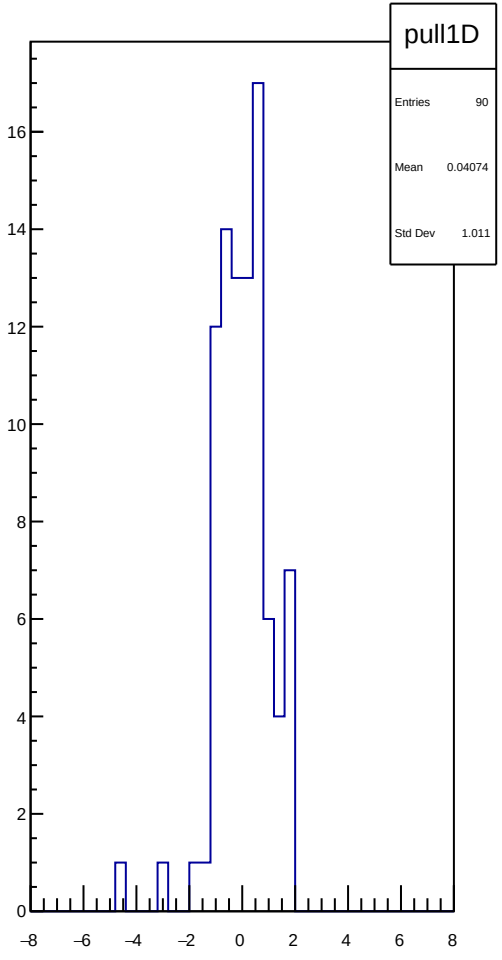

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 61.91 / 89
p0 −7.972 ± 1.572
40
20
0
−20
−40
pull
Entries 90
Mean −115.4
Std Dev 0
4
3
2
1
0
−1
−2

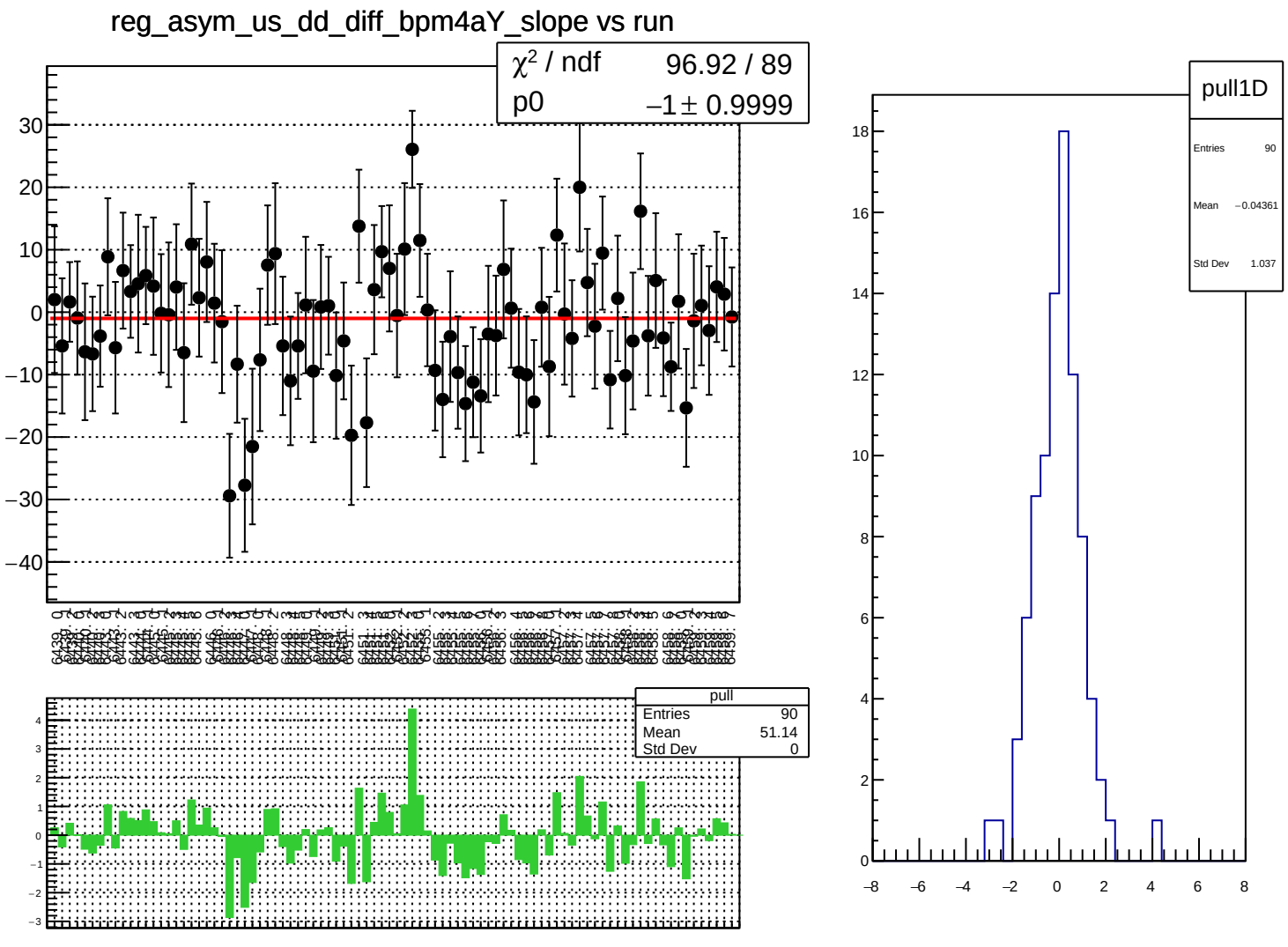

pull1D
Entries 90
Mean −0.01495
Std Dev 0.8293
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

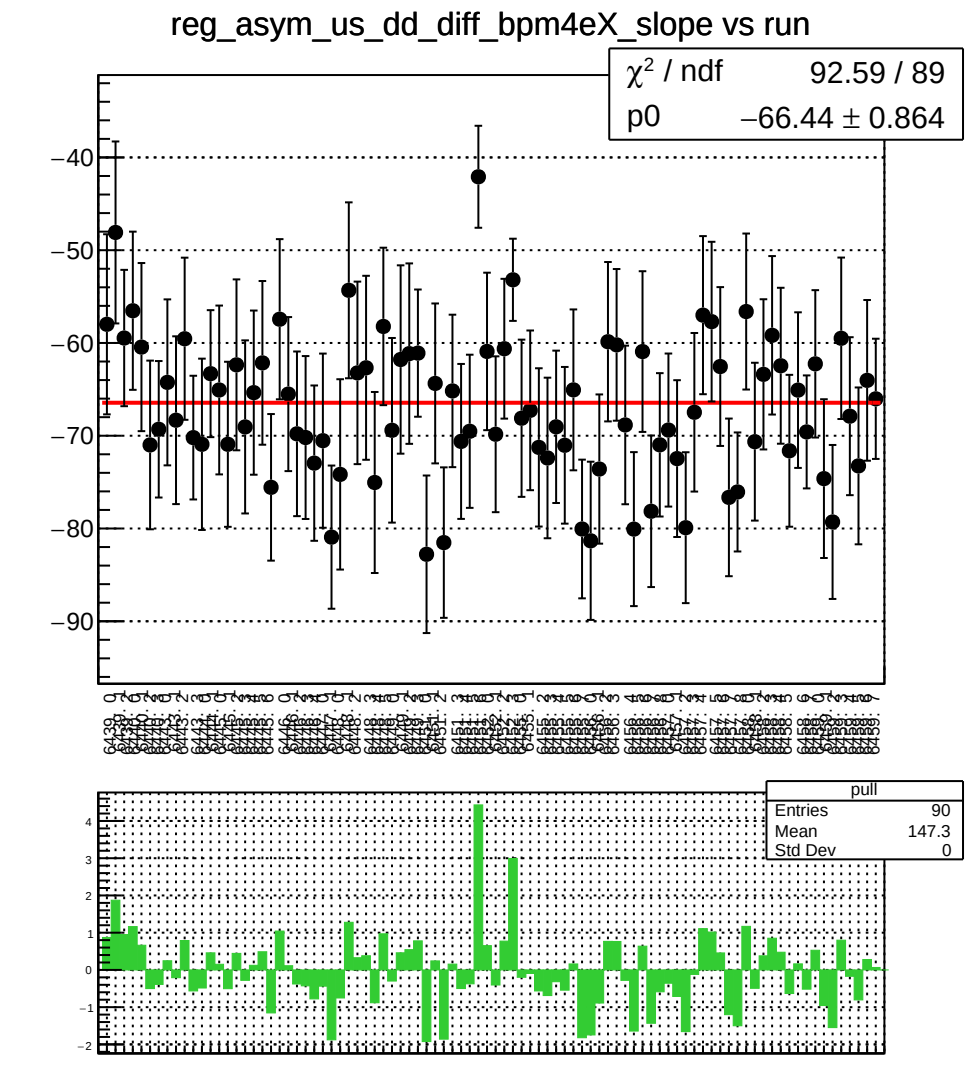

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 181 / 89
p0 −45.9 ± 0.06397
pull
Entries 90
Mean 242.1
Std Dev 0

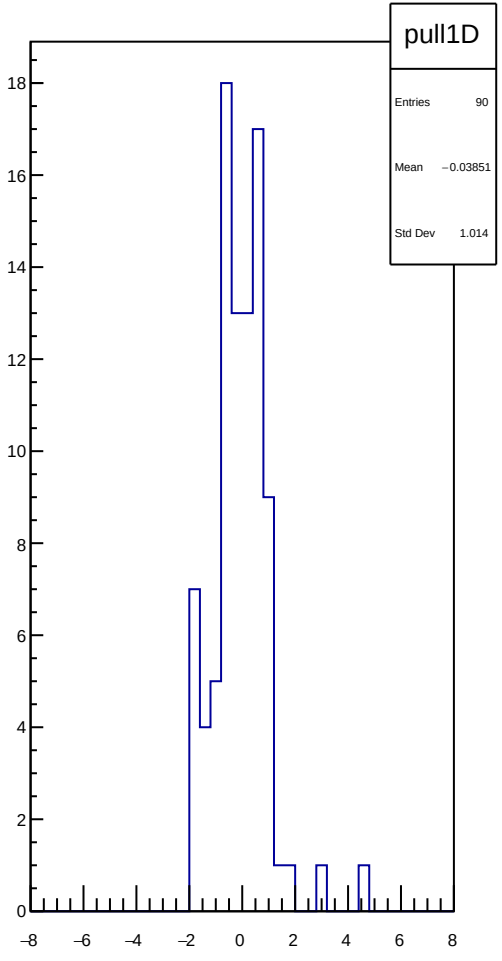

pull1D
Entries 90
Mean 0.0589
Std Dev 1.417

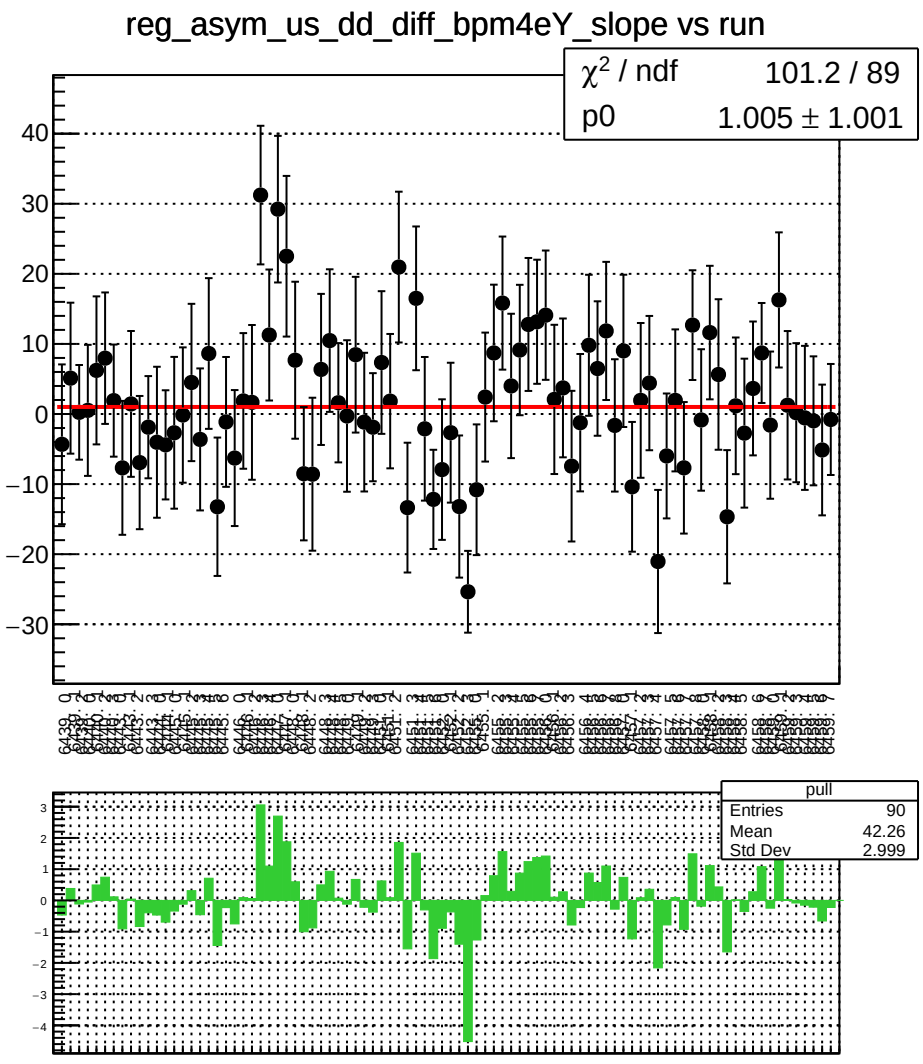

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 92.1 / 89
p0 6.53 ± 0.8567
pull
Entries 90
Mean 117.4
Std Dev 0

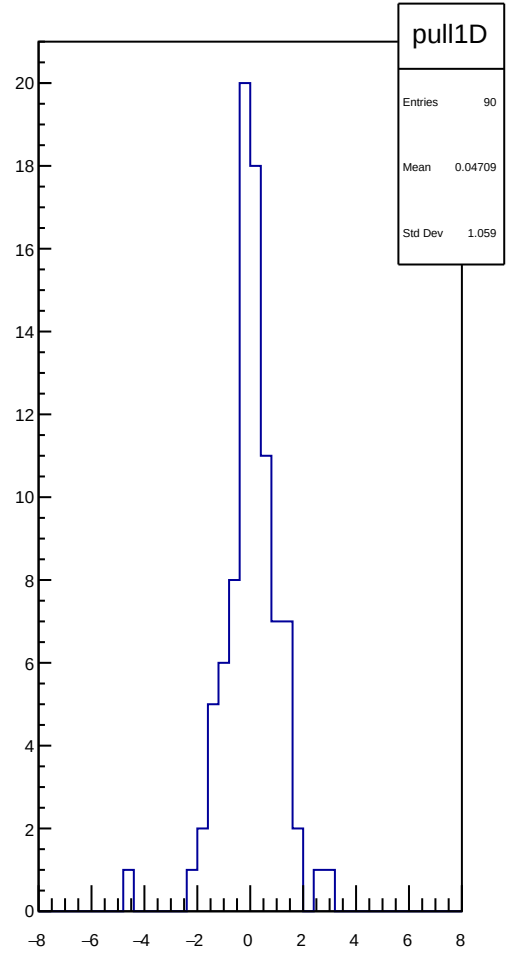

pull1D
Entries 90
Mean 0.04074
Std Dev 1.011

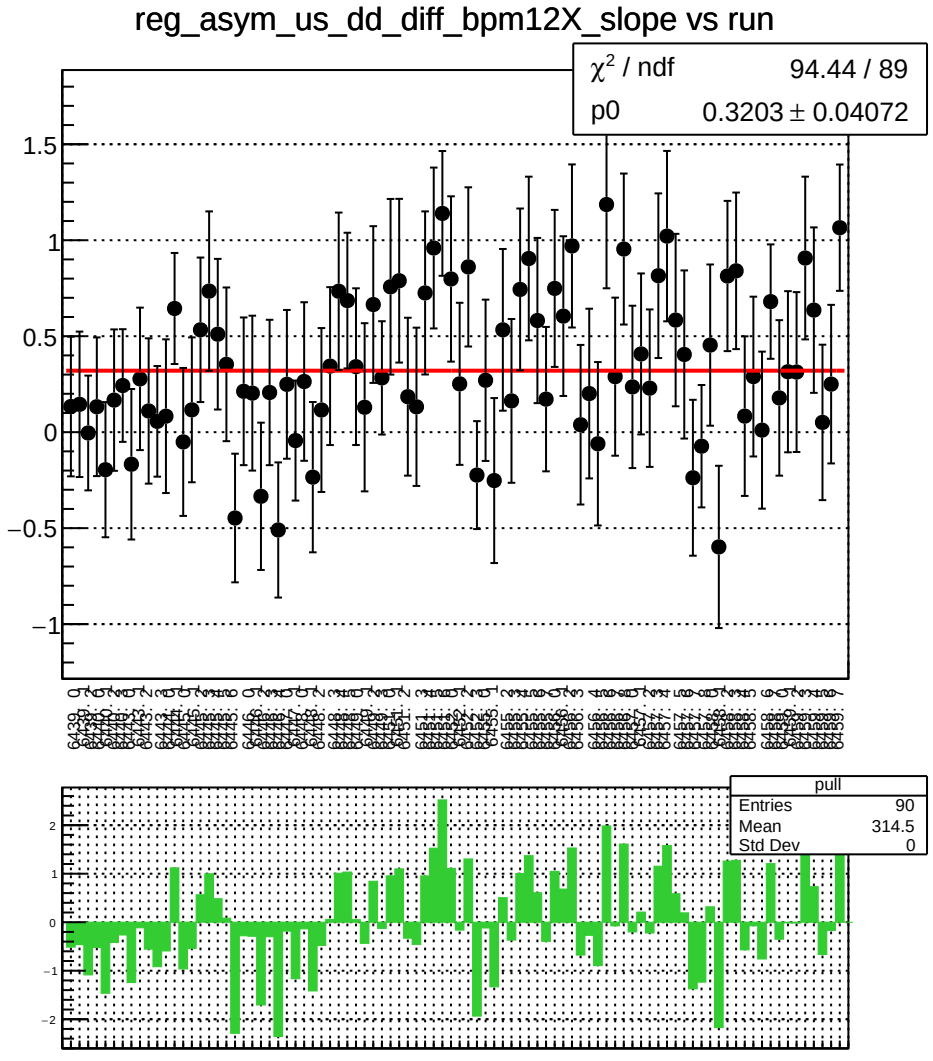

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 96.92 / 89
p0 −1 ± 0.9999
pull
Entries 90
Mean 51.14
Std Dev 0
pull1D
Entries 90
Mean −0.04361
Std Dev 1.037

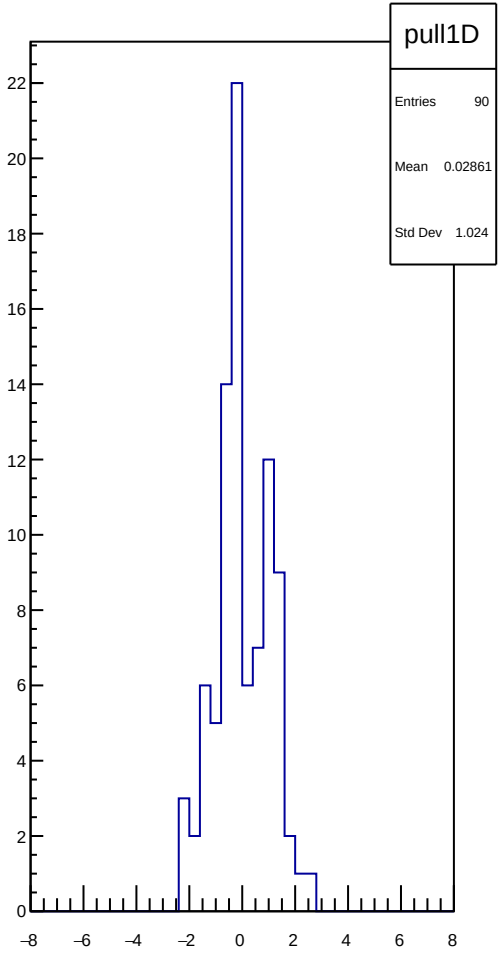

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 92.59 / 89
p0 −66.44 ± 0.864
pull
Entries 90
Mean 147.3
Std Dev 0

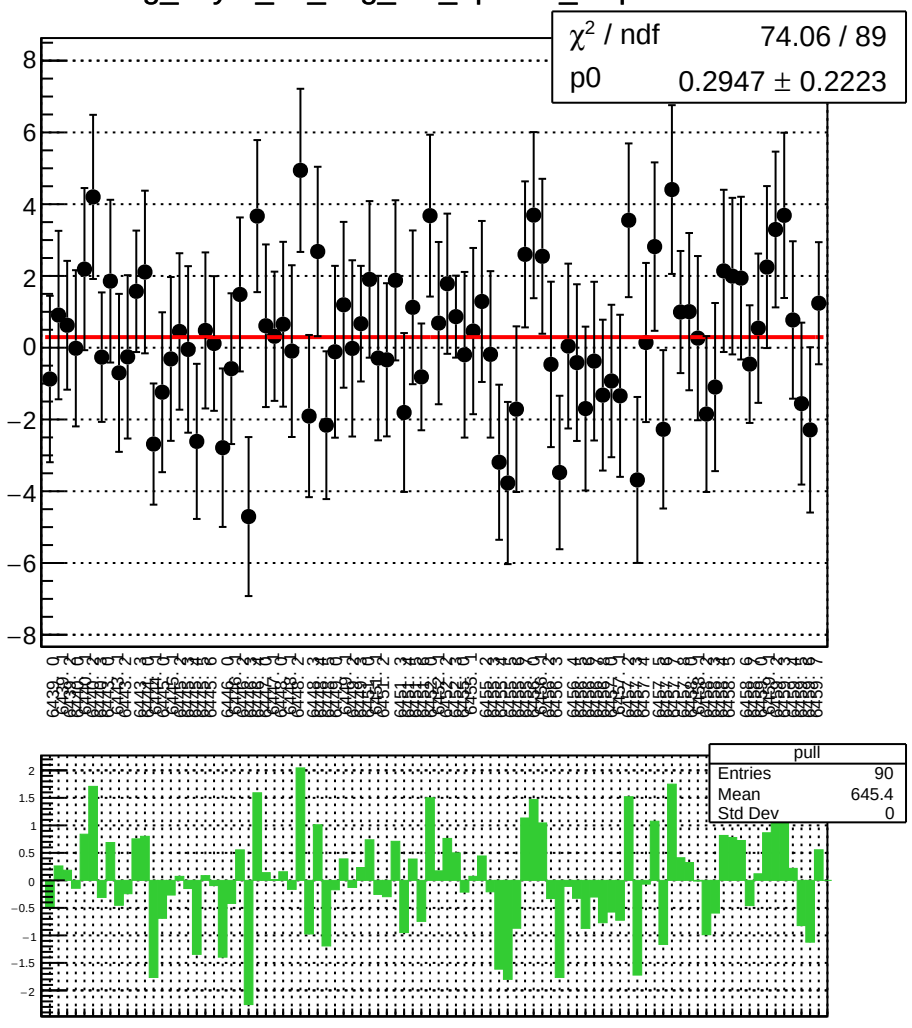

pull1D
Entries 90
Mean −0.03851
Std Dev 1.014

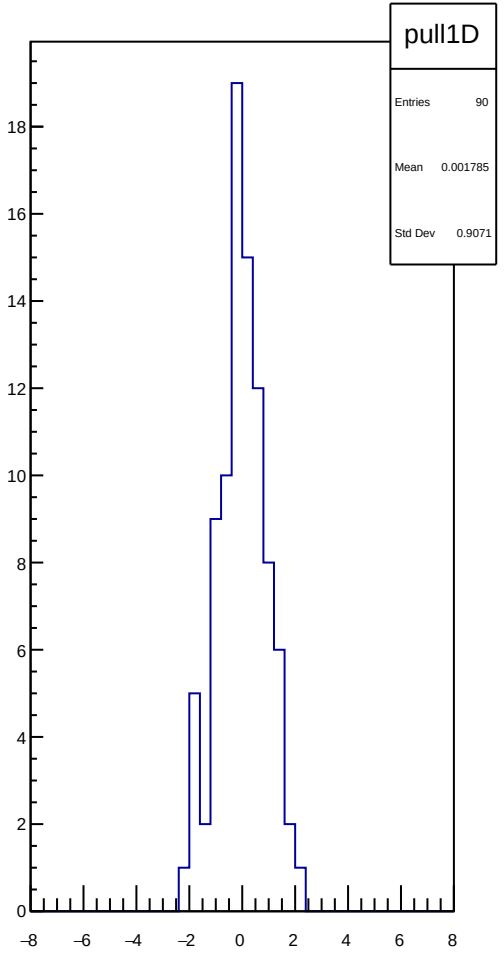

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 101.2 / 89
p0 1.005 ± 1.001
pull
Entries 90
Mean 42.26
Std Dev 2.999

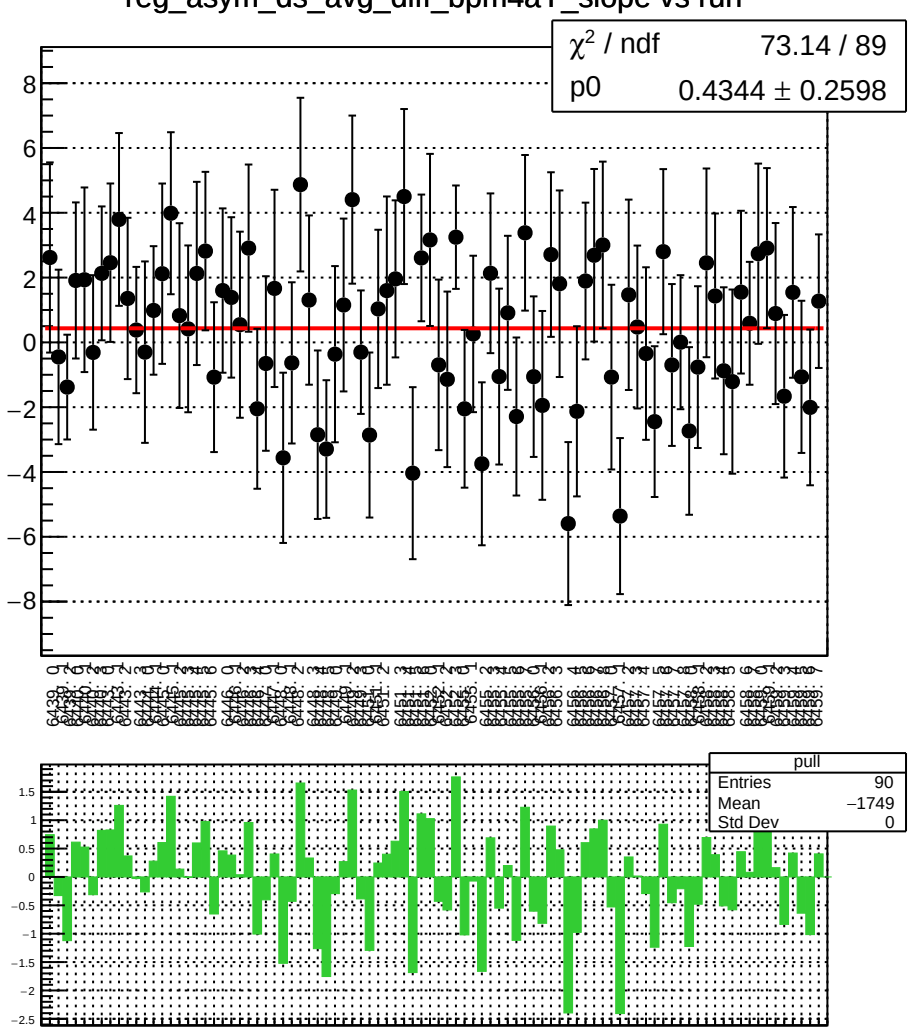

pull1D
Entries 90
Mean 0.04709
Std Dev 1.059

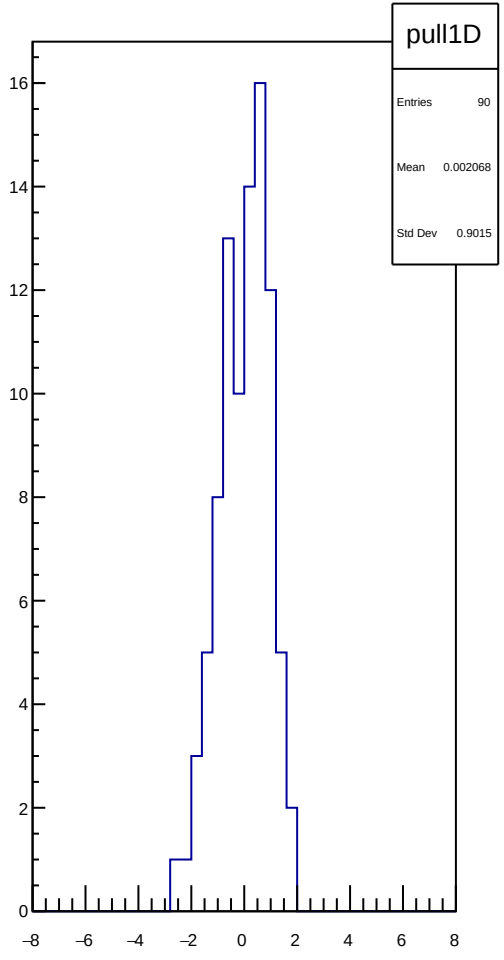

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 94.44 / 89
p0 0.3203 ± 0.04072
pull
Entries 90
Mean 314.5
Std Dev 0

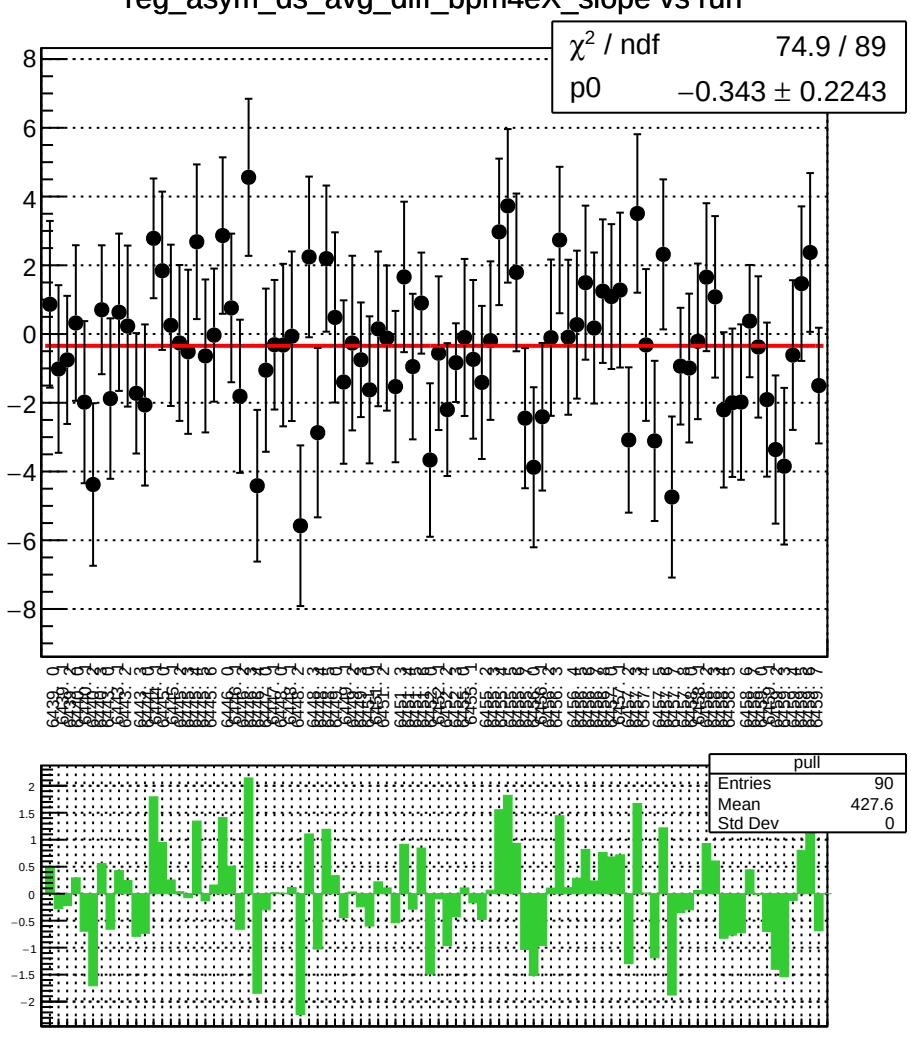

pull1D
Entries 90
Mean 0.02861
Std Dev 1.024

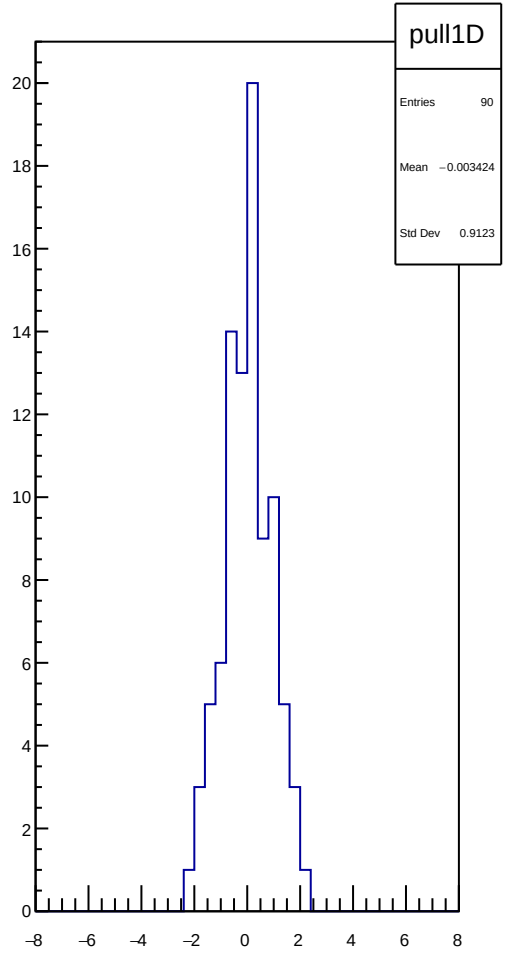

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 74.06 / 89
p0 0.2947 ± 0.2223
pull
Entries 90
Mean 645.4
Std Dev 0

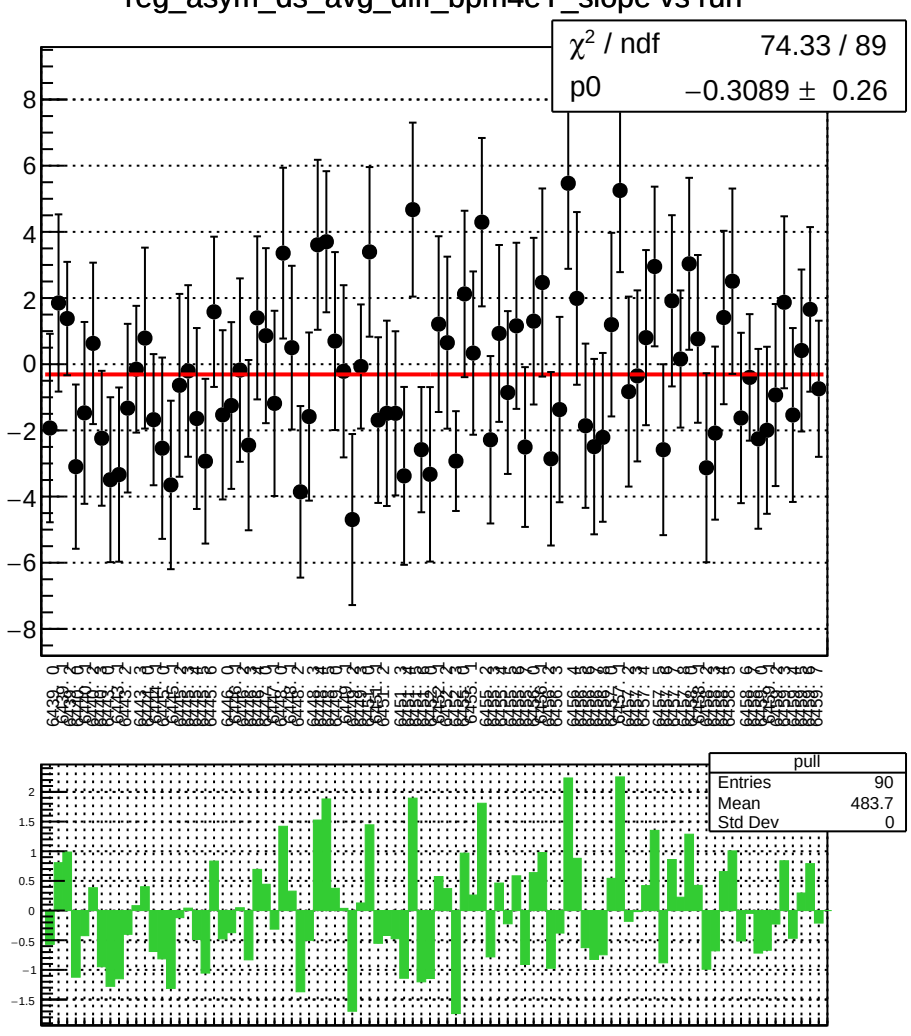

pull1D
Entries 90
Mean 0.001785
Std Dev 0.9071

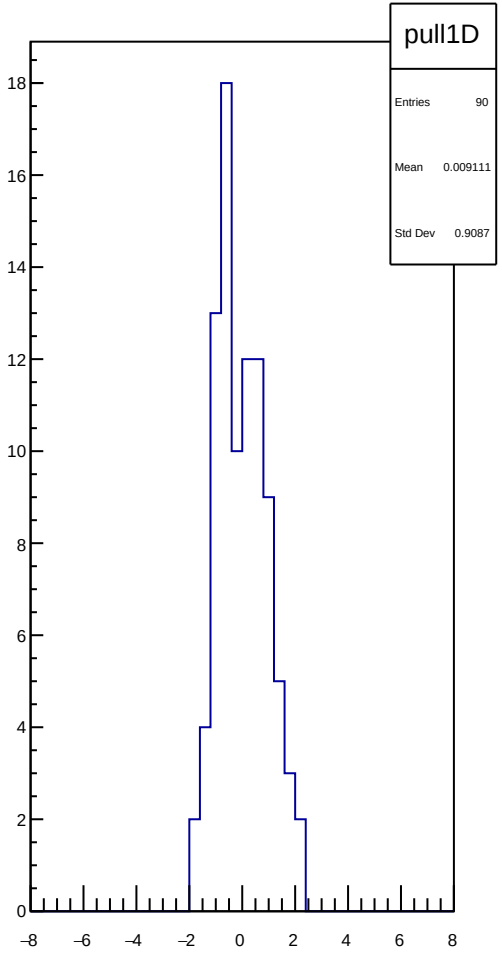

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 73.14 / 89
p0 0.4344 ± 0.2598
pull
Entries 90
Mean −1749
Std Dev 0

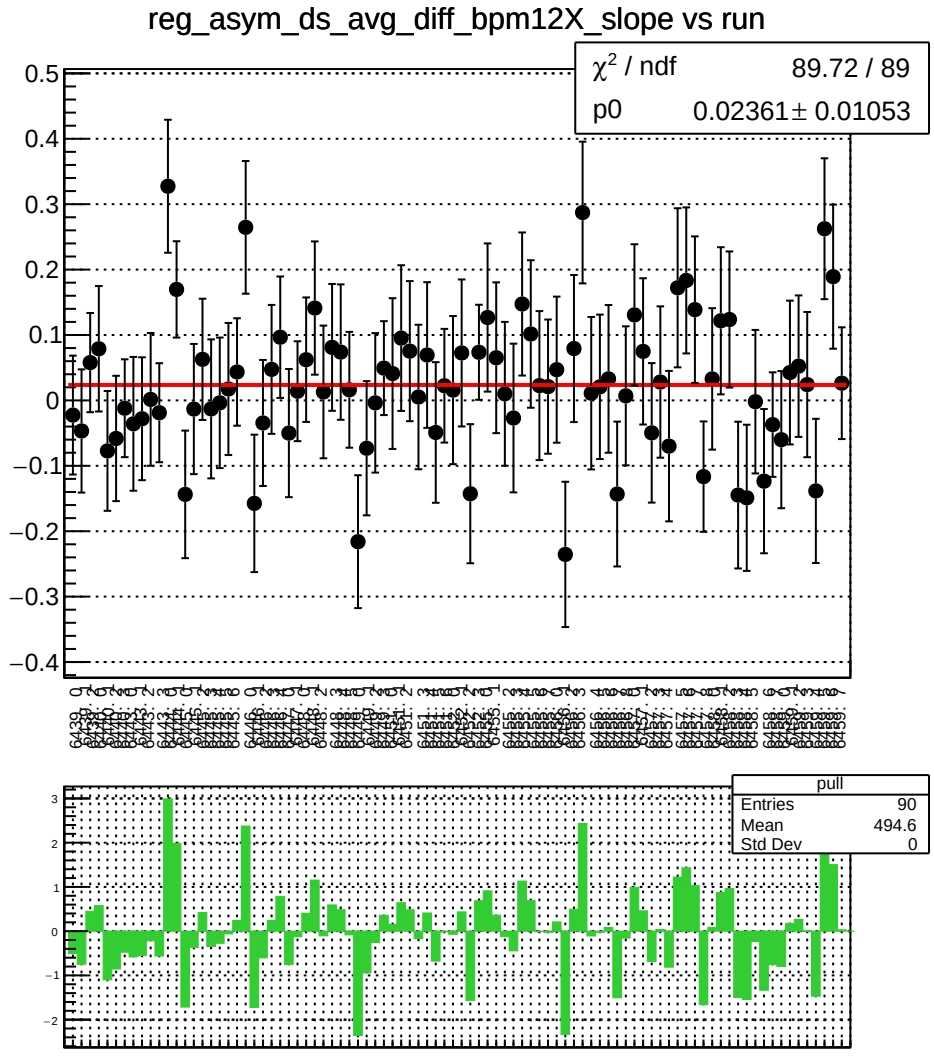

pull1D
Entries 90
Mean 0.002068
Std Dev 0.9015

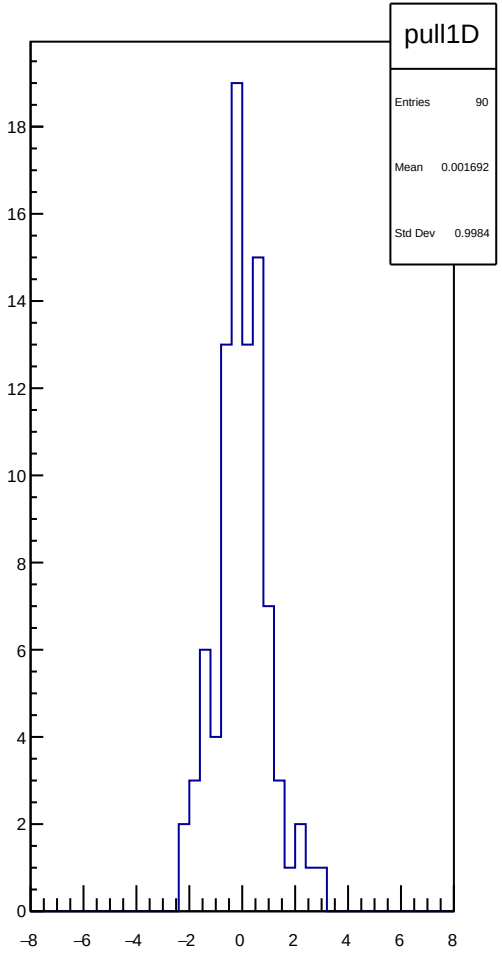

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 74.9 / 89
p0 −0.343 ± 0.2243
pull
Entries 90
Mean 427.6
Std Dev 0

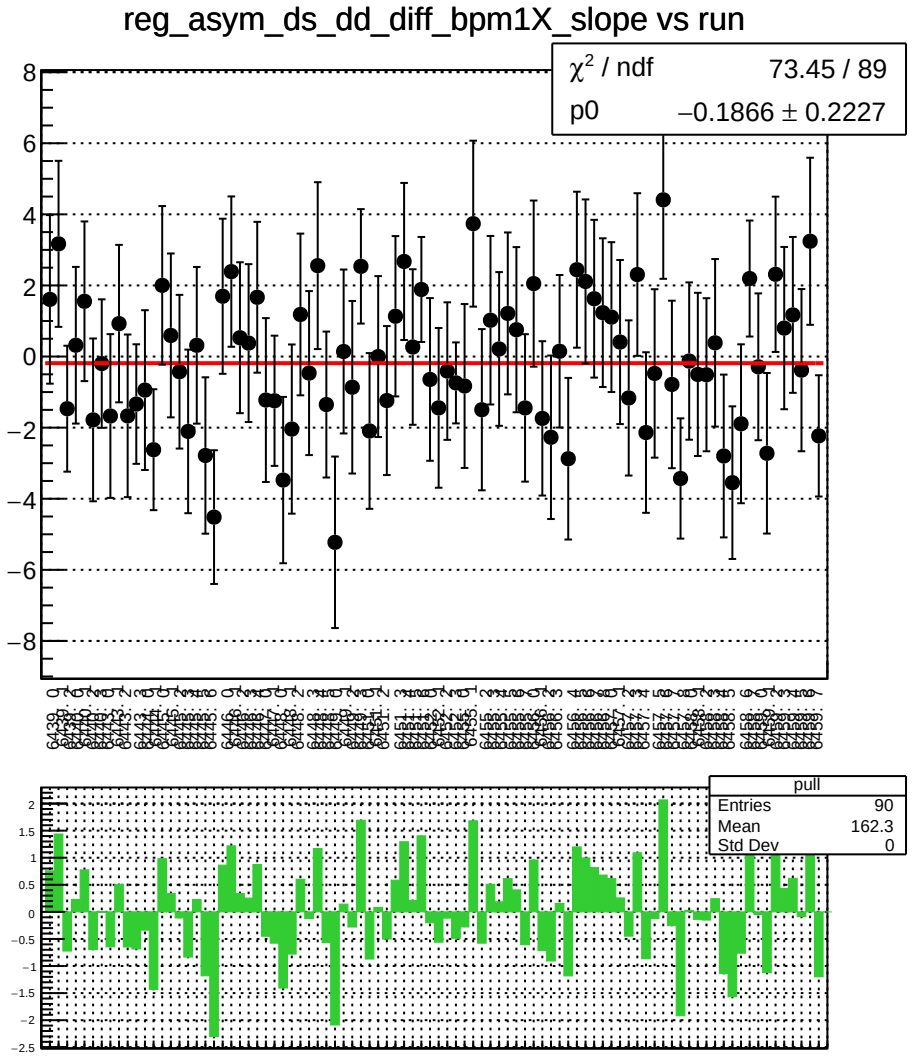

pull1D
Entries 90
Mean −0.003424
Std Dev 0.9123

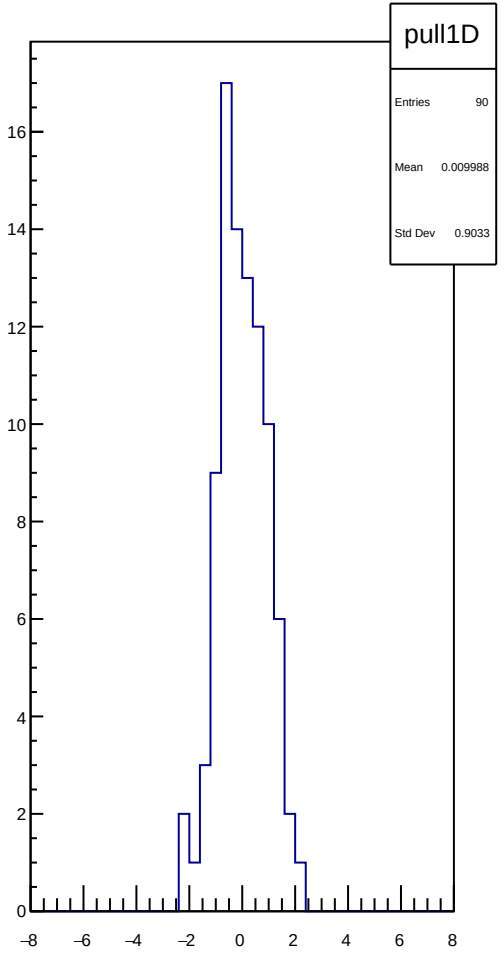

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 74.33 / 89
p0 −0.3089 ± 0.26
pull
Entries 90
Mean 483.7
Std Dev 0

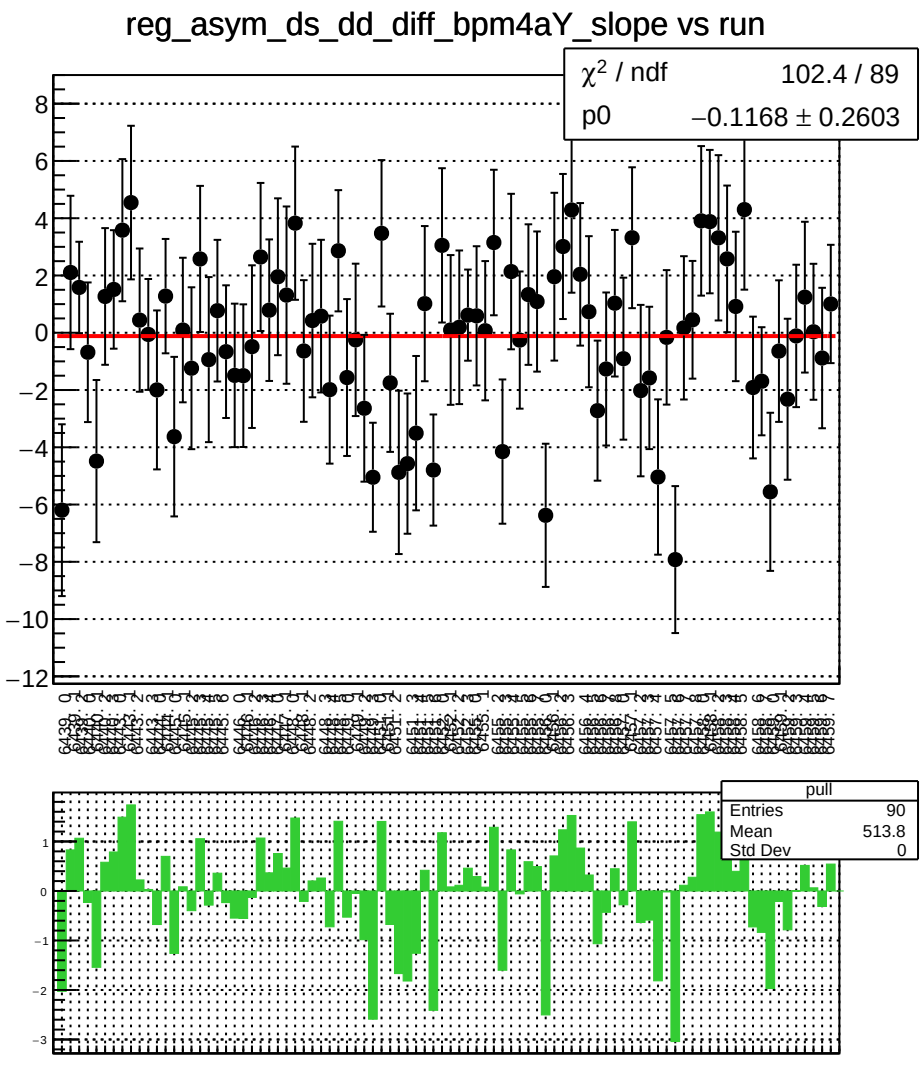

pull1D
Entries 90
Mean 0.009111
Std Dev 0.9087

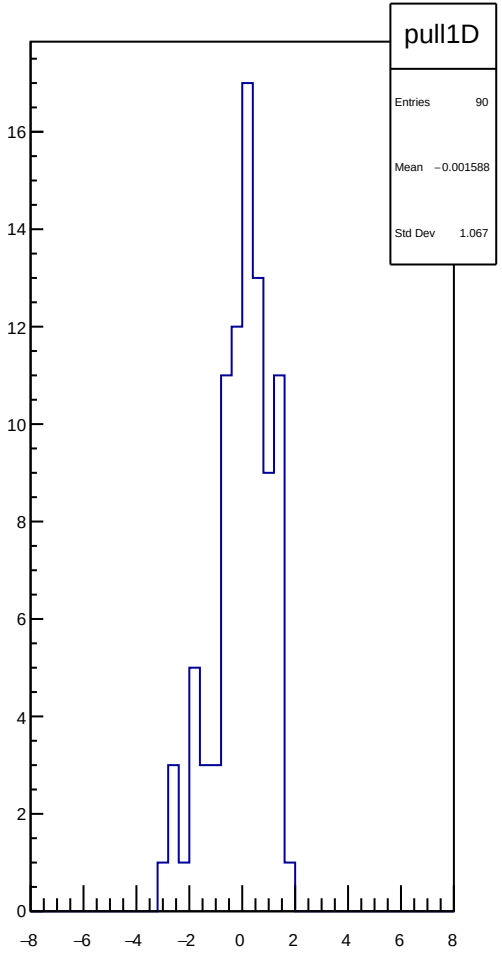

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 89.72 / 89
p0 0.02361 ± 0.01053
pull
Entries 90
Mean 494.6
Std Dev 0

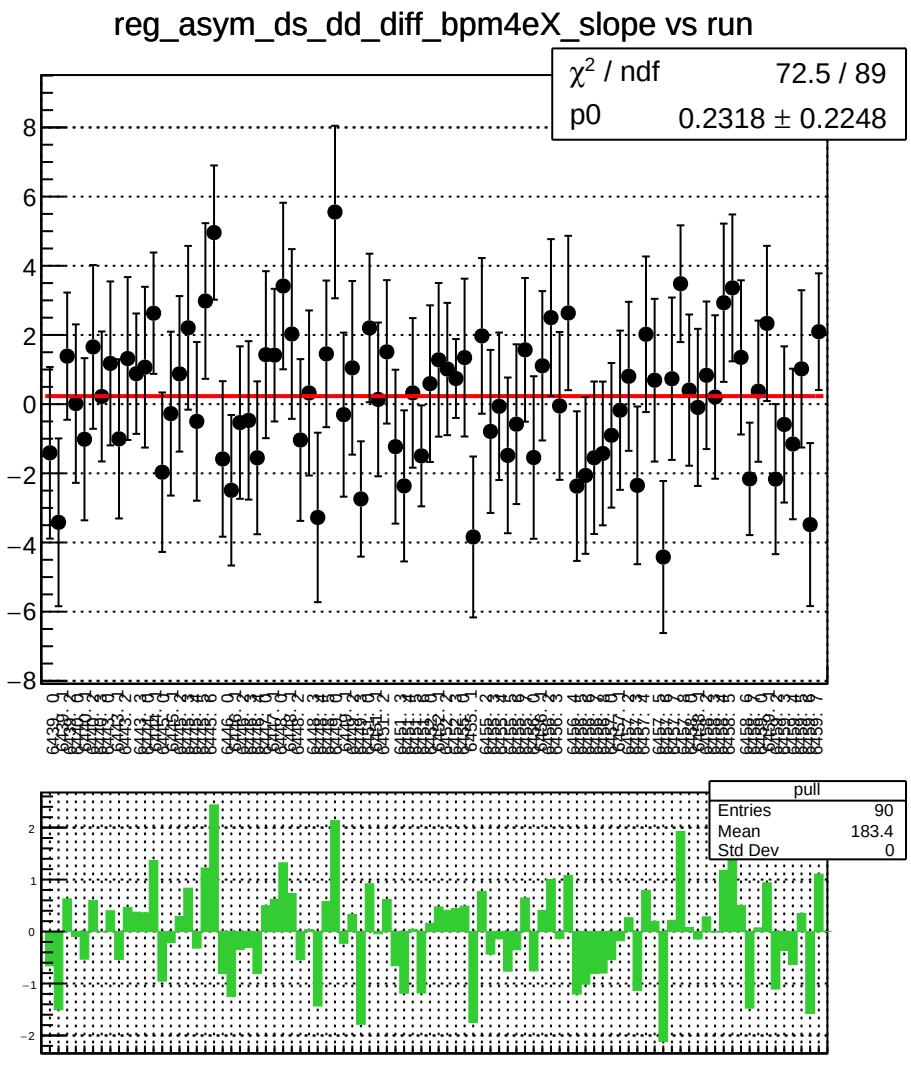

pull1D
Entries 90
Mean 0.001692
Std Dev 0.9984

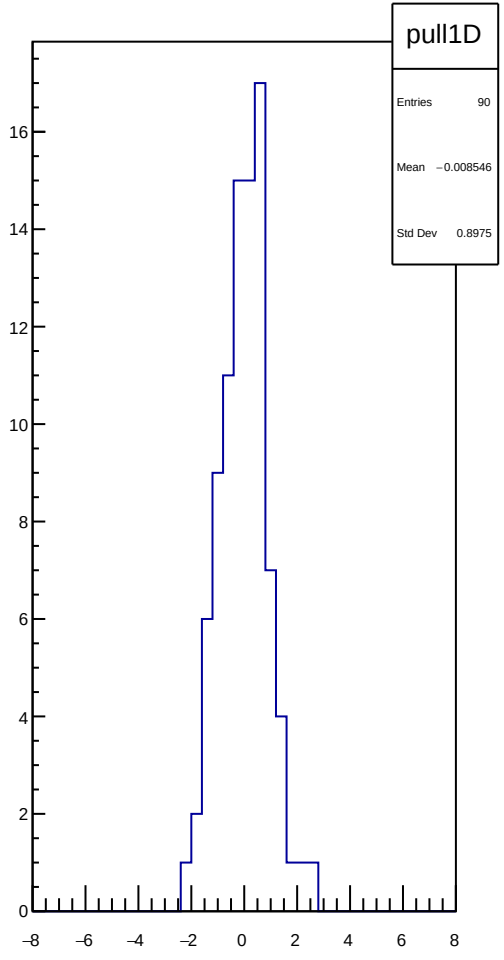

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 73.45 / 89
p0 −0.1866 ± 0.2227
pull
Entries 90
Mean 162.3
Std Dev 0

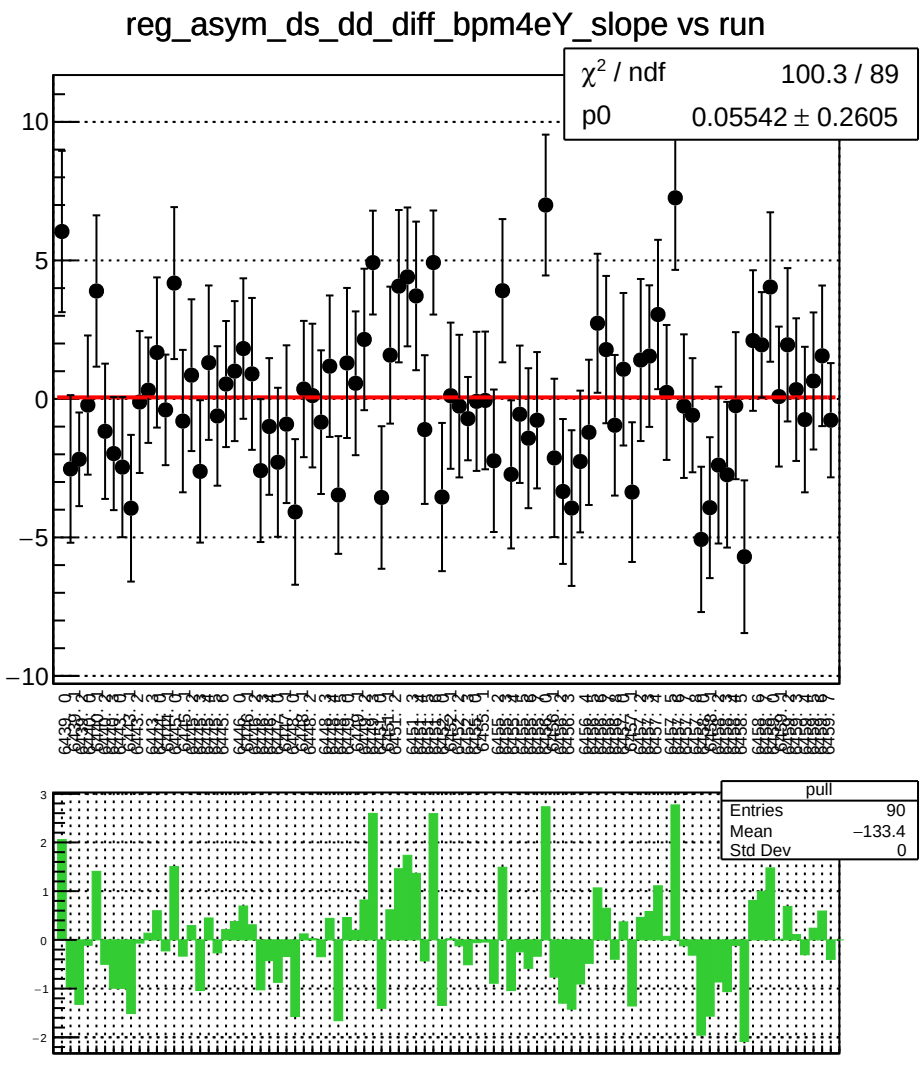

pull1D
Entries 90
Mean 0.009988
Std Dev 0.9033

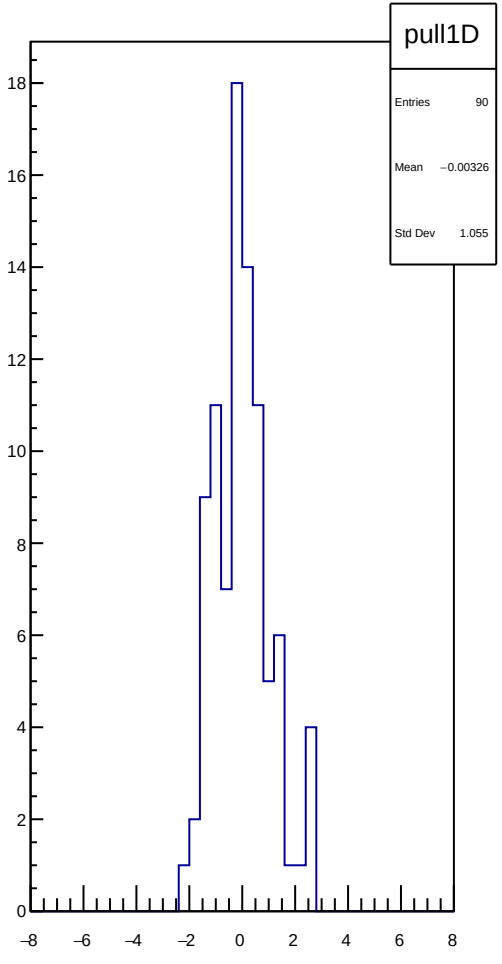

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 102.4 / 89
p0 −0.1168 ± 0.2603
pull
Entries 90
Mean 513.8
Std Dev 0

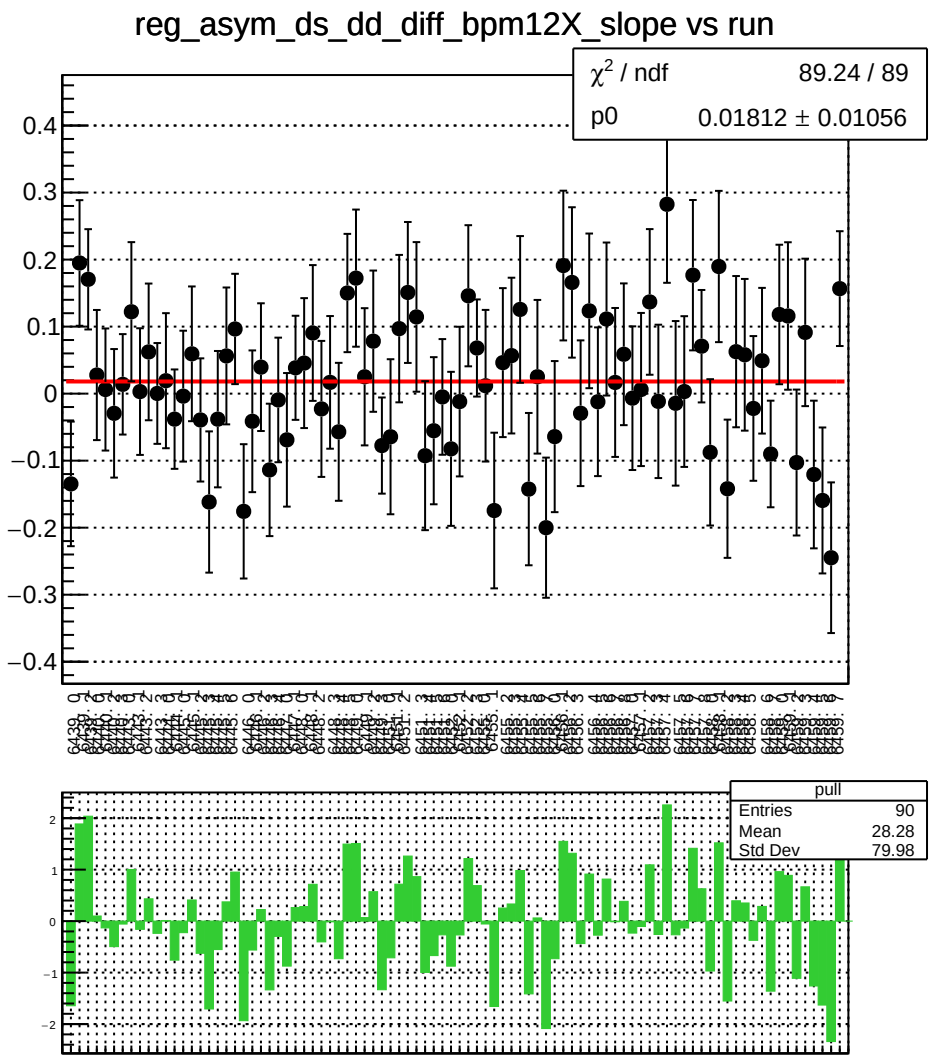

pull1D
Entries 90
Mean −0.001588
Std Dev 1.067

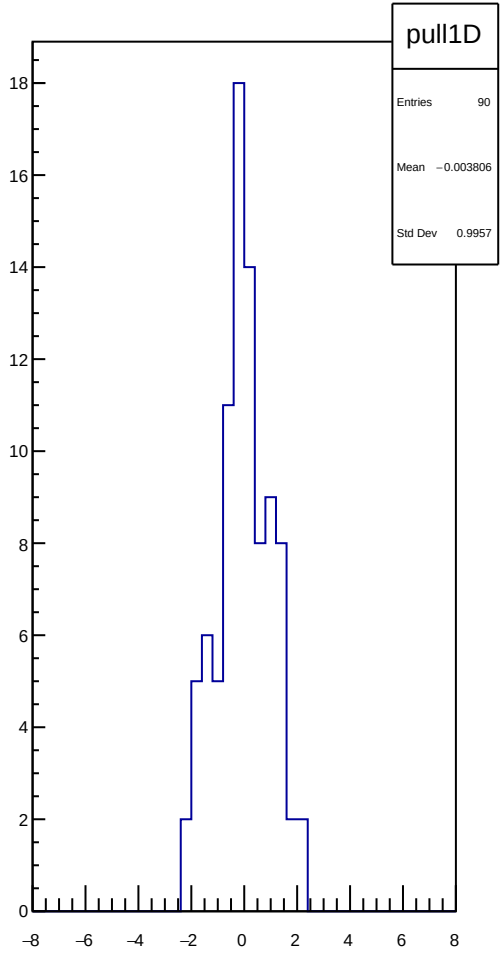

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 72.5 / 89
p0 0.2318 ± 0.2248
pull
Entries 90
Mean 183.4
Std Dev 0

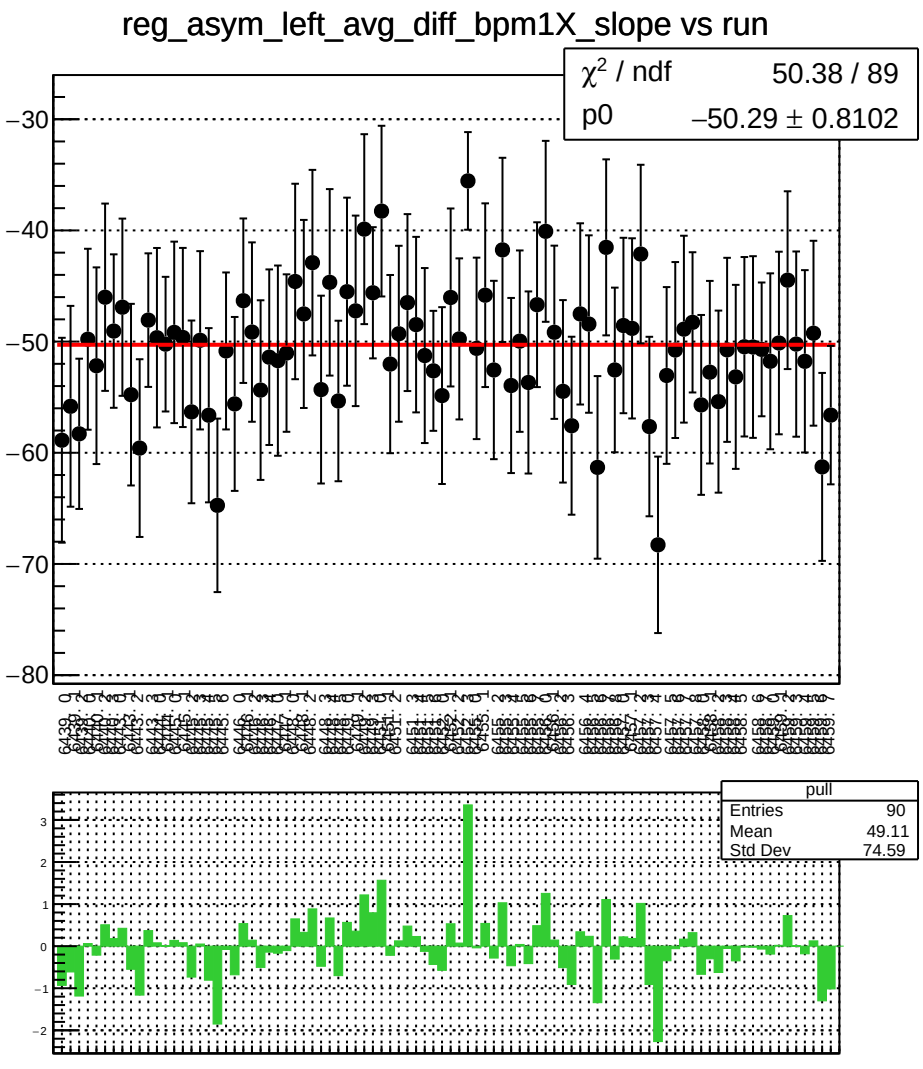

pull1D
Entries 90
Mean −0.008546
Std Dev 0.8975

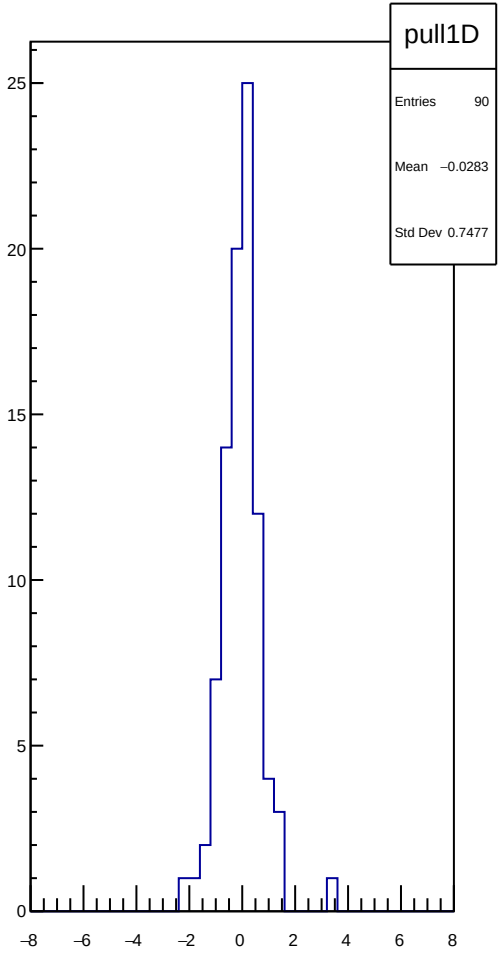

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 100.3 / 89
p0 0.05542 ± 0.2605
pull
Entries 90
Mean −133.4
Std Dev 0

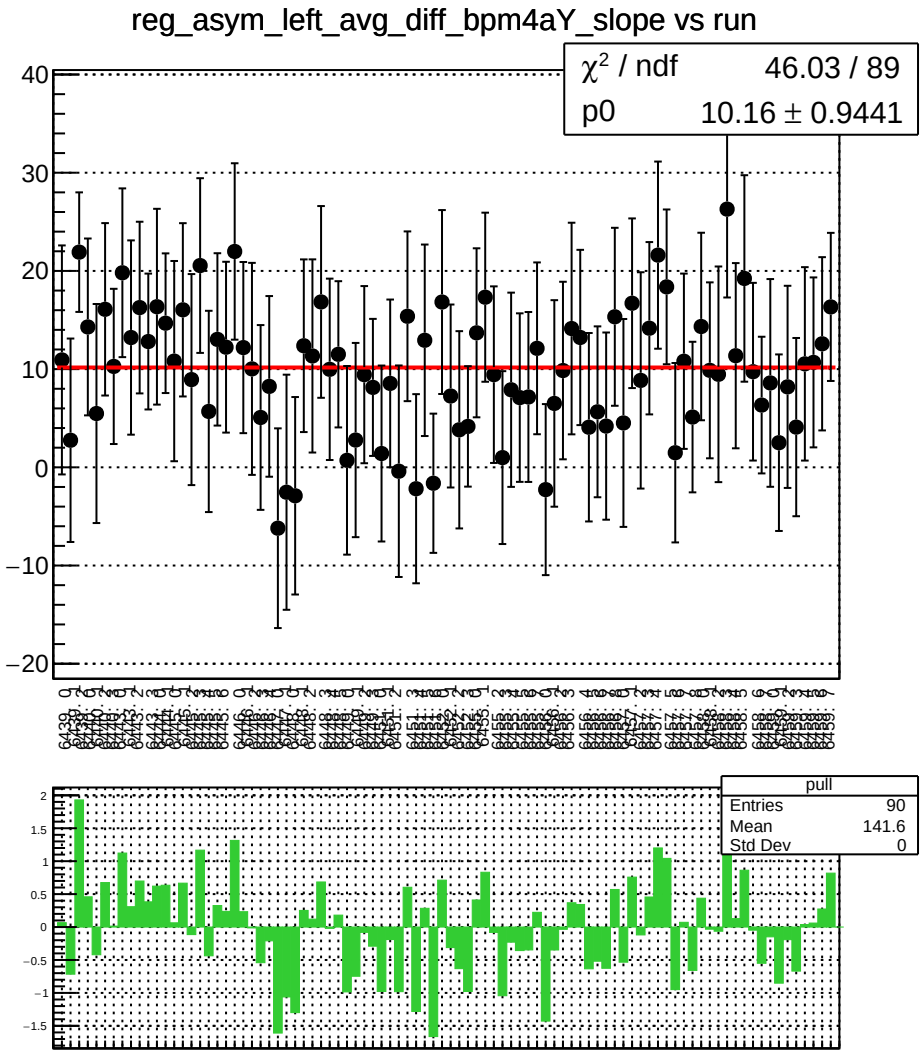

pull1D
Entries 90
Mean −0.00326
Std Dev 1.055

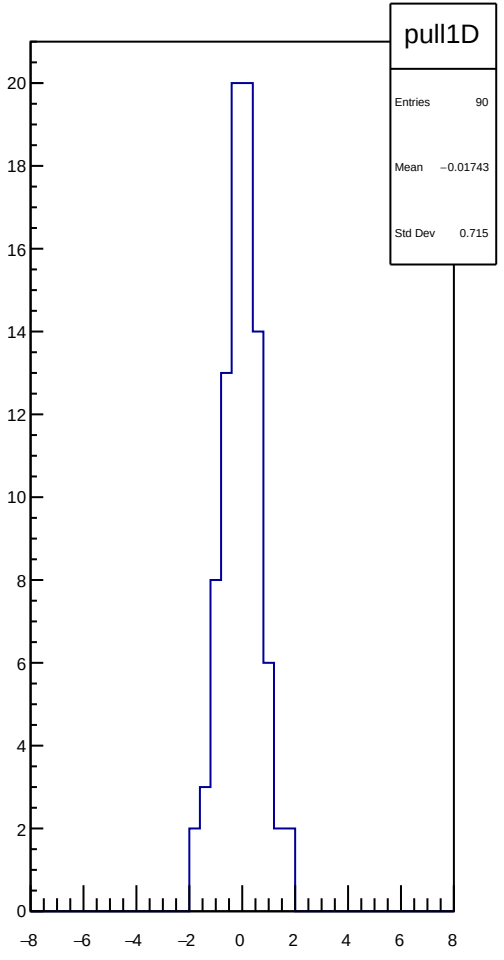

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 89.24 / 89
p0 0.01812 ± 0.01056
pull
Entries 90
Mean 28.28
Std Dev 79.98

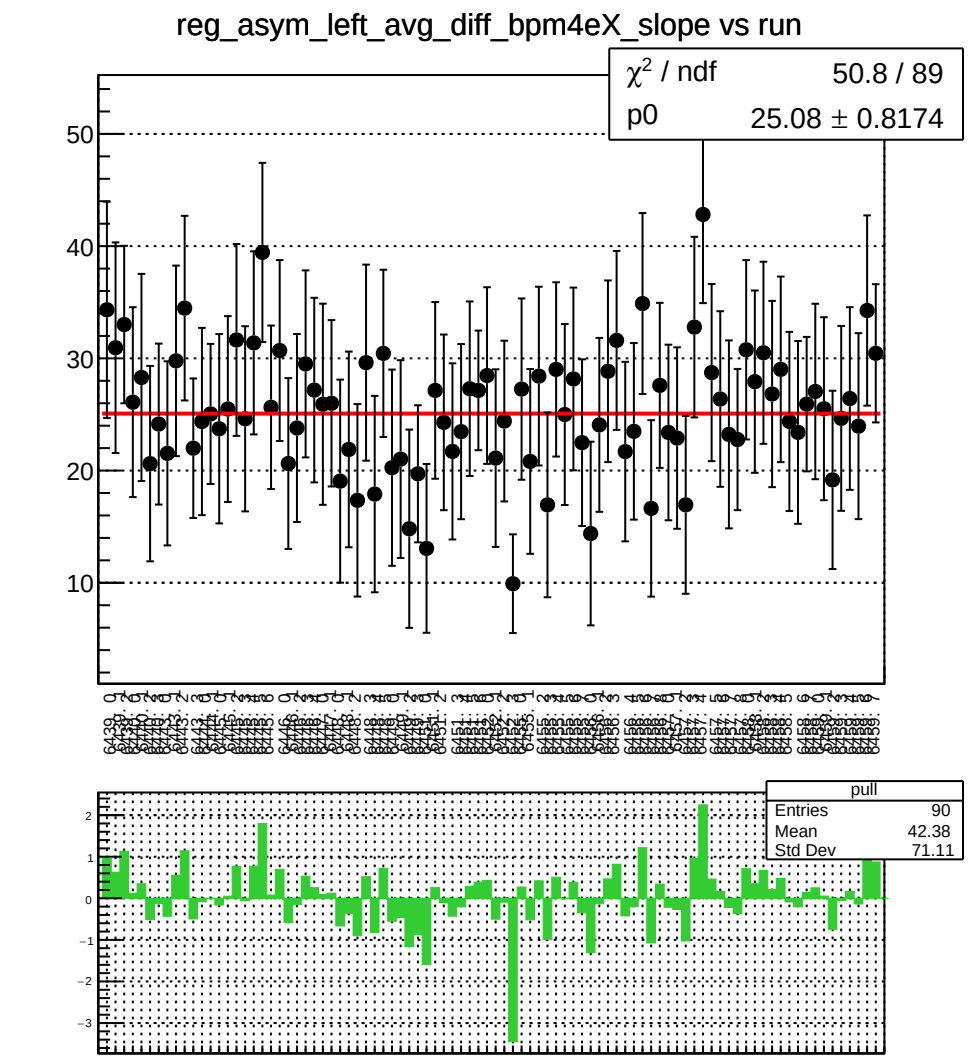

pull1D
Entries 90
Mean −0.003806
Std Dev 0.9957

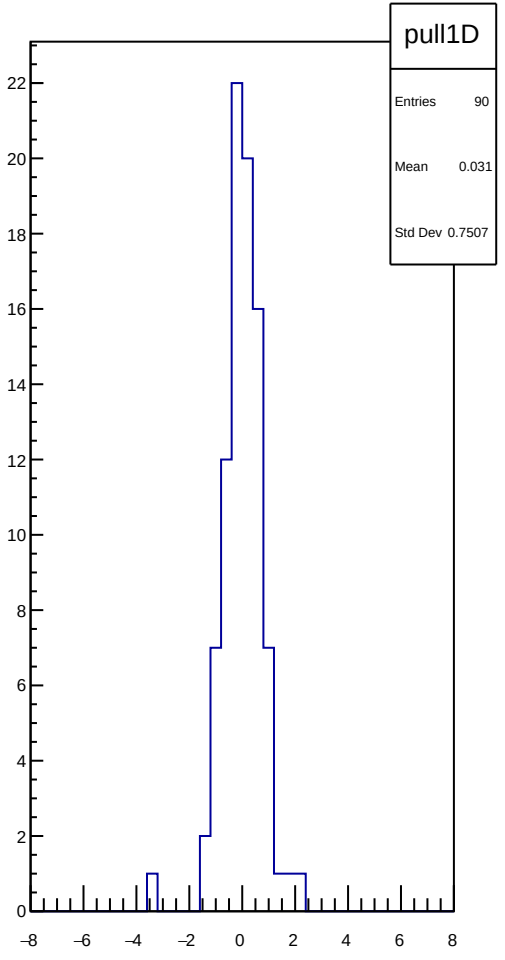

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 50.38 / 89
p0 −50.29 ± 0.8102
pull
Entries 90
Mean 49.11
Std Dev 74.59

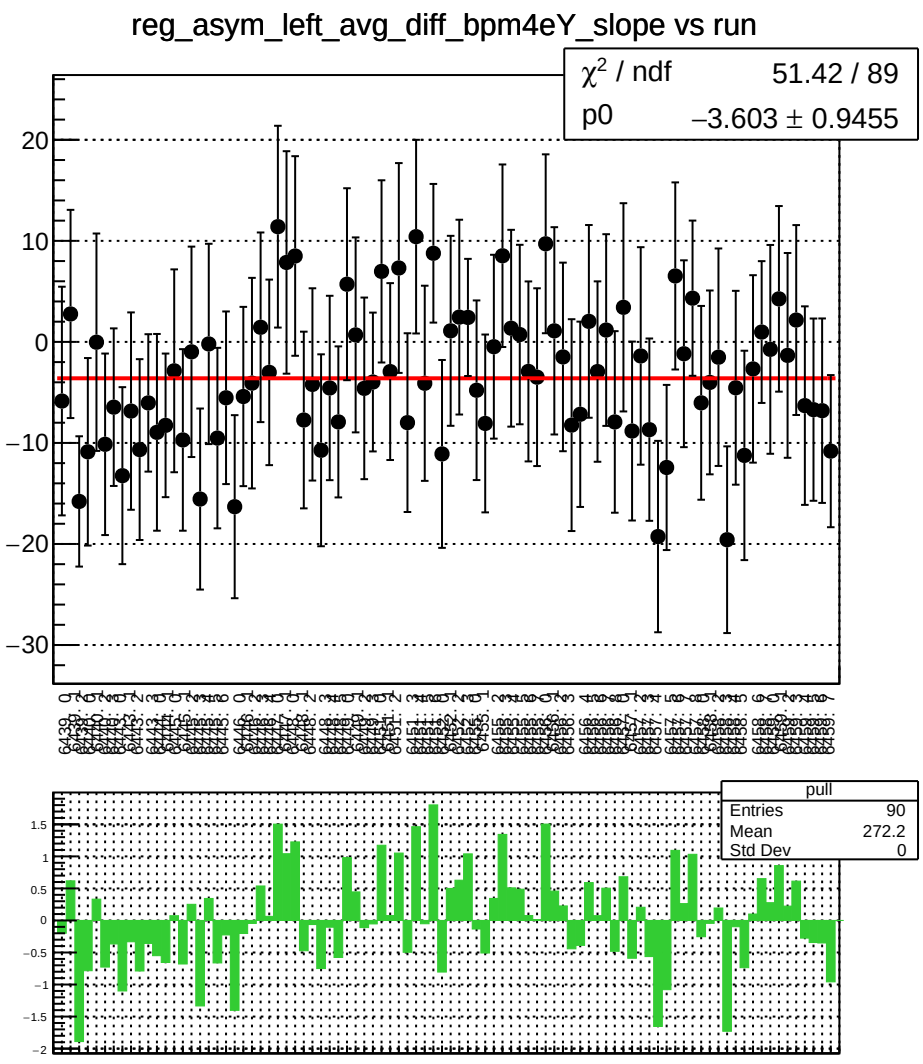

pull1D
Entries 90
Mean −0.0283
Std Dev 0.7477

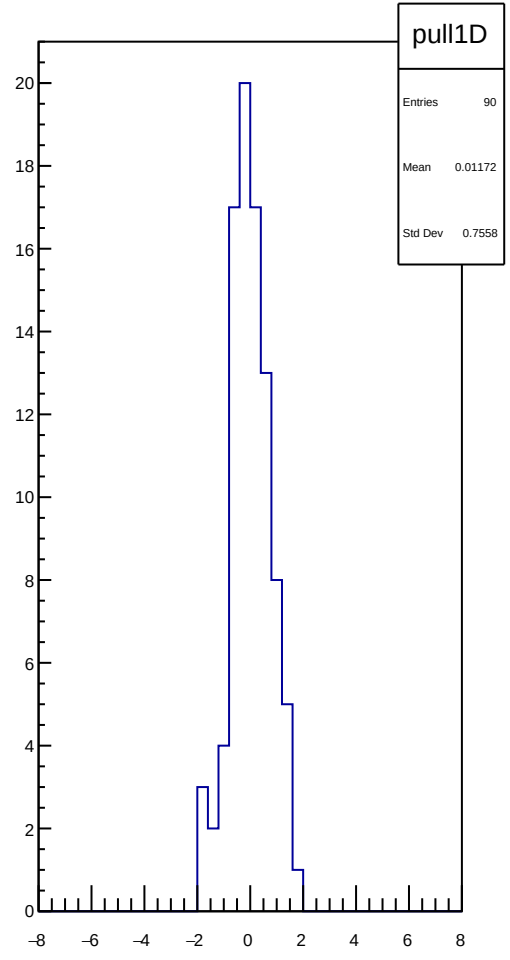

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 46.03 / 89
p0 10.16 ± 0.9441
pull
Entries 90
Mean 141.6
Std Dev 0

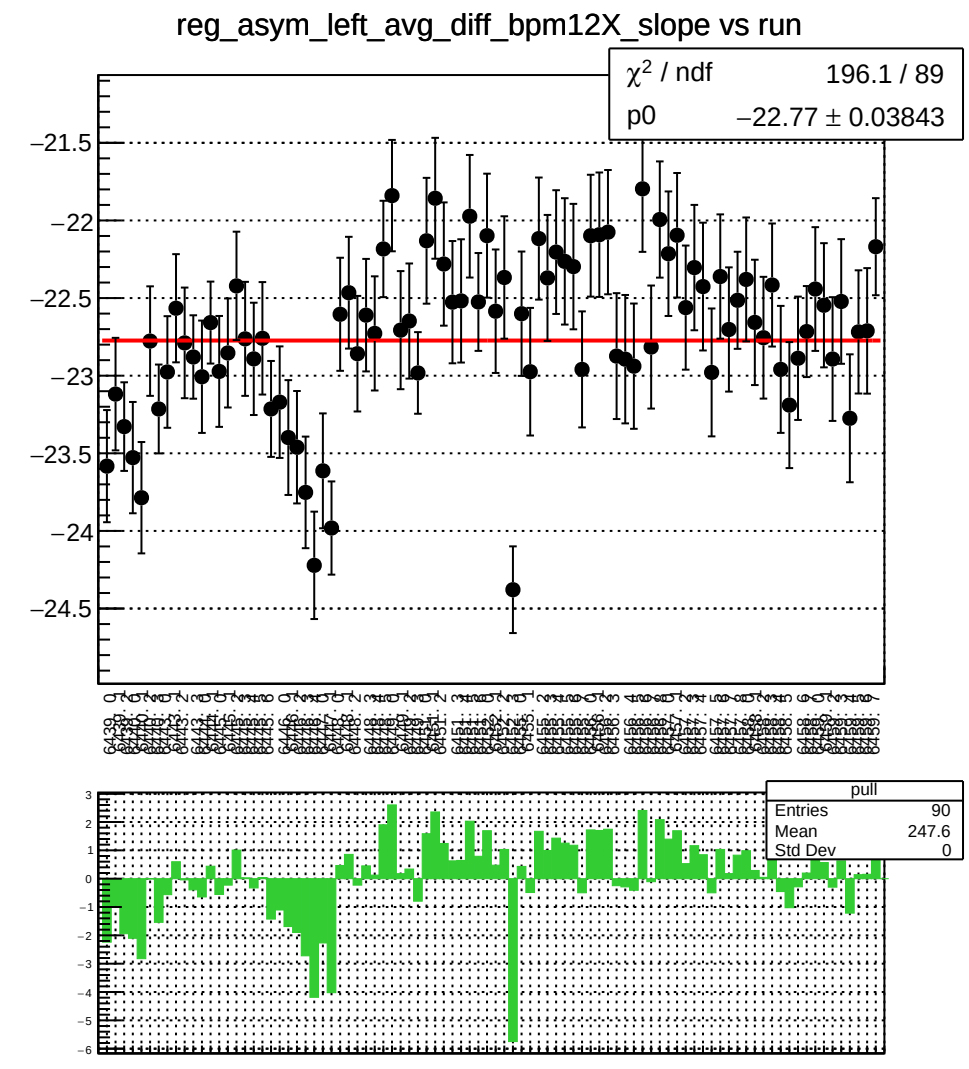

pull1D
Entries 90
Mean −0.01743
Std Dev 0.715

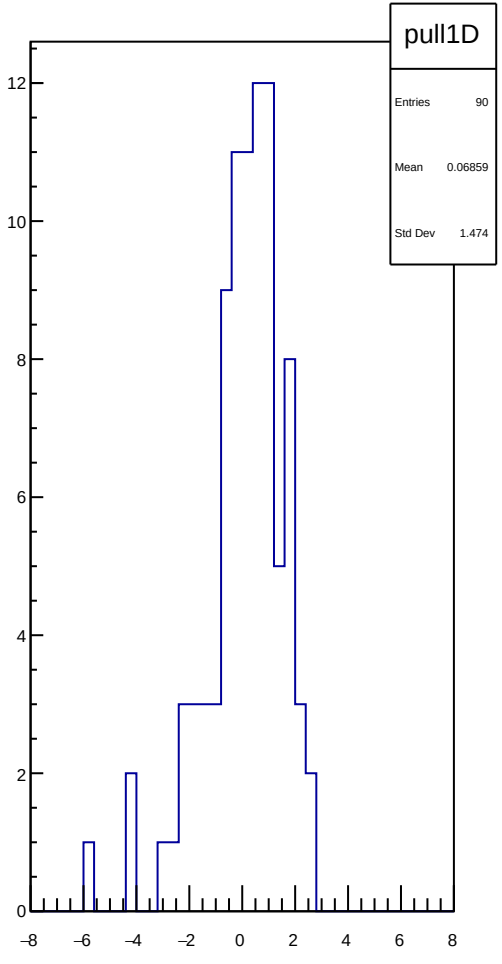

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 50.8 / 89
p0 25.08 ± 0.8174
pull
Entries 90
Mean 42.38
Std Dev 71.11

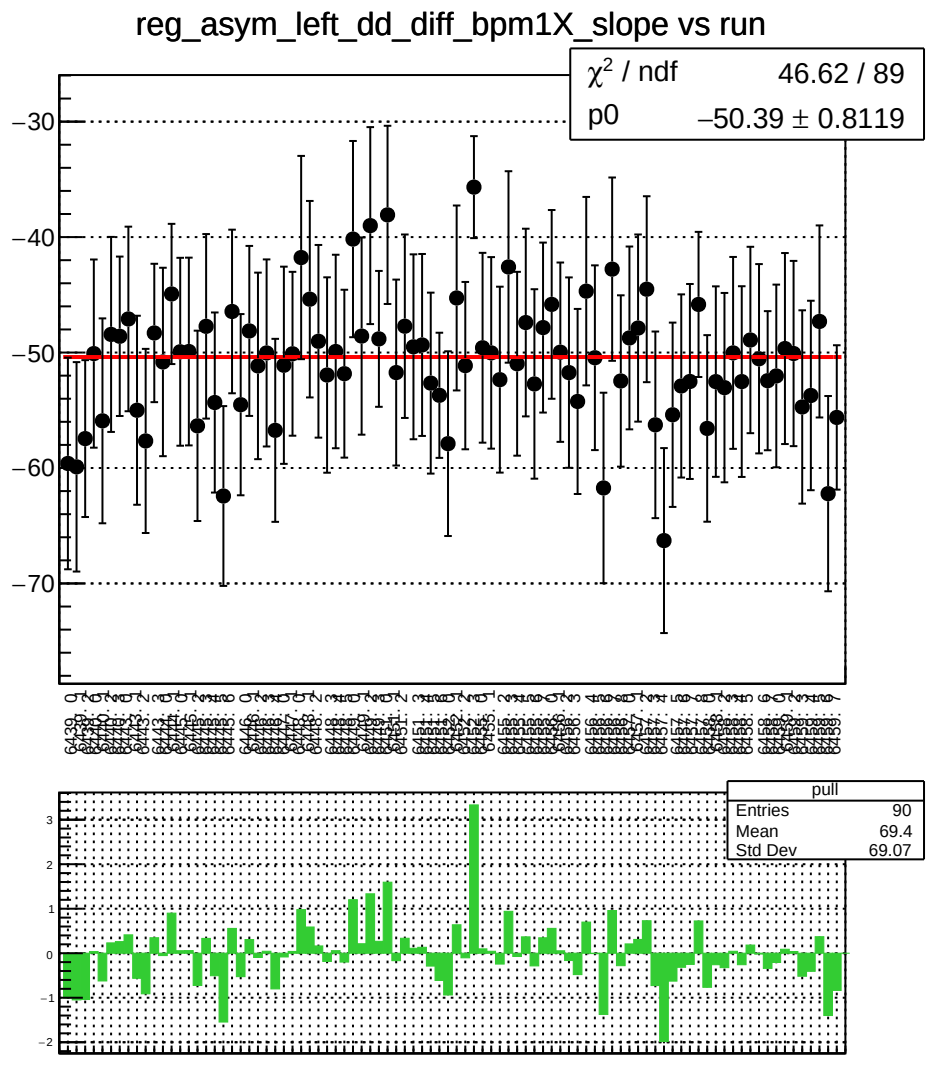

pull1D
Entries 90
Mean 0.031
Std Dev 0.7507

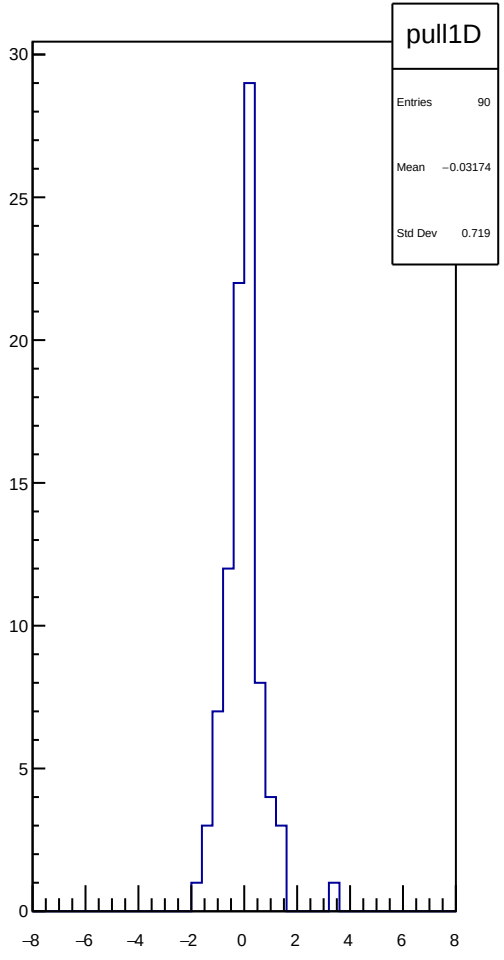

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 51.42 / 89
p0 −3.603 ± 0.9455
pull
Entries 90
Mean 272.2
Std Dev 0

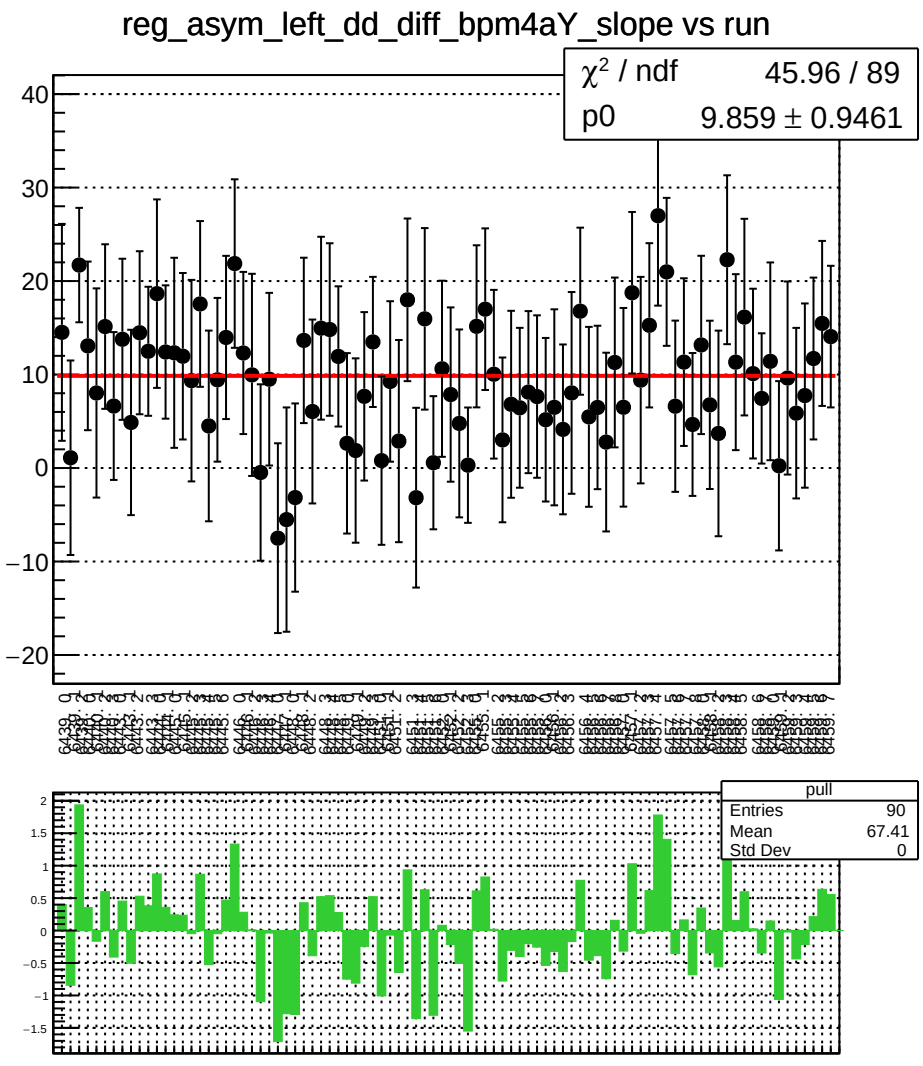

pull1D
Entries 90
Mean 0.01172
Std Dev 0.7558

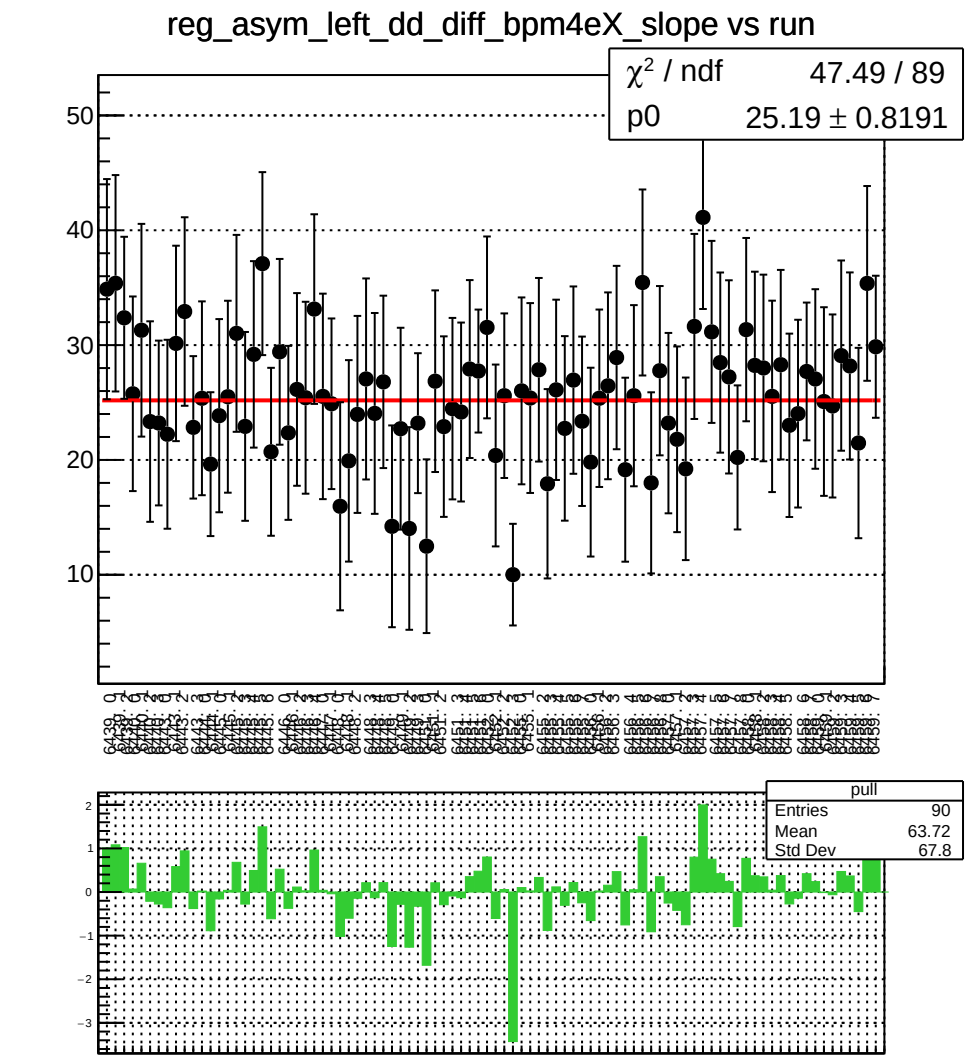

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 196.1 / 89
p0 −22.77 ± 0.03843
−21.5
−22
−22.5
−23
−23.5
−24
−24.5
pull
Entries 90
Mean 247.6
Std Dev 0
3
2
1
0
−1
−2
−3
−4
−5
−6

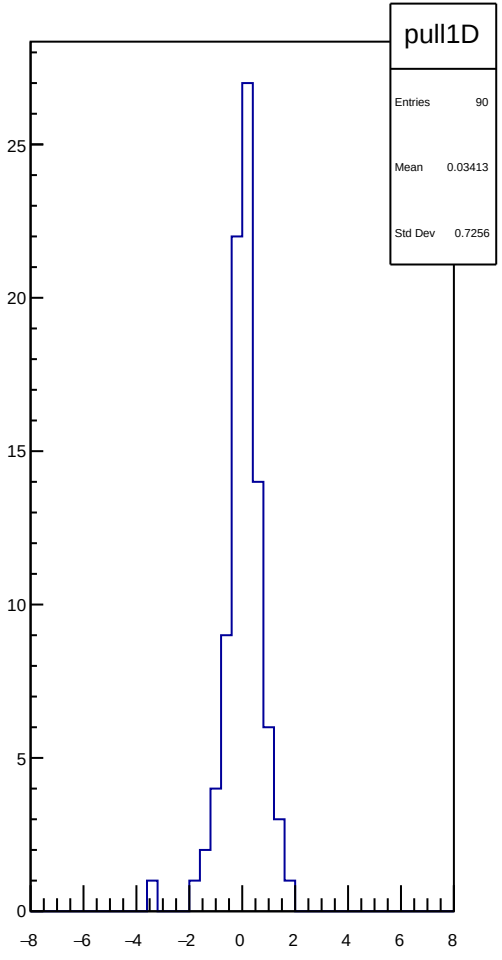

pull1D
Entries 90
Mean 0.06859
Std Dev 1.474
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

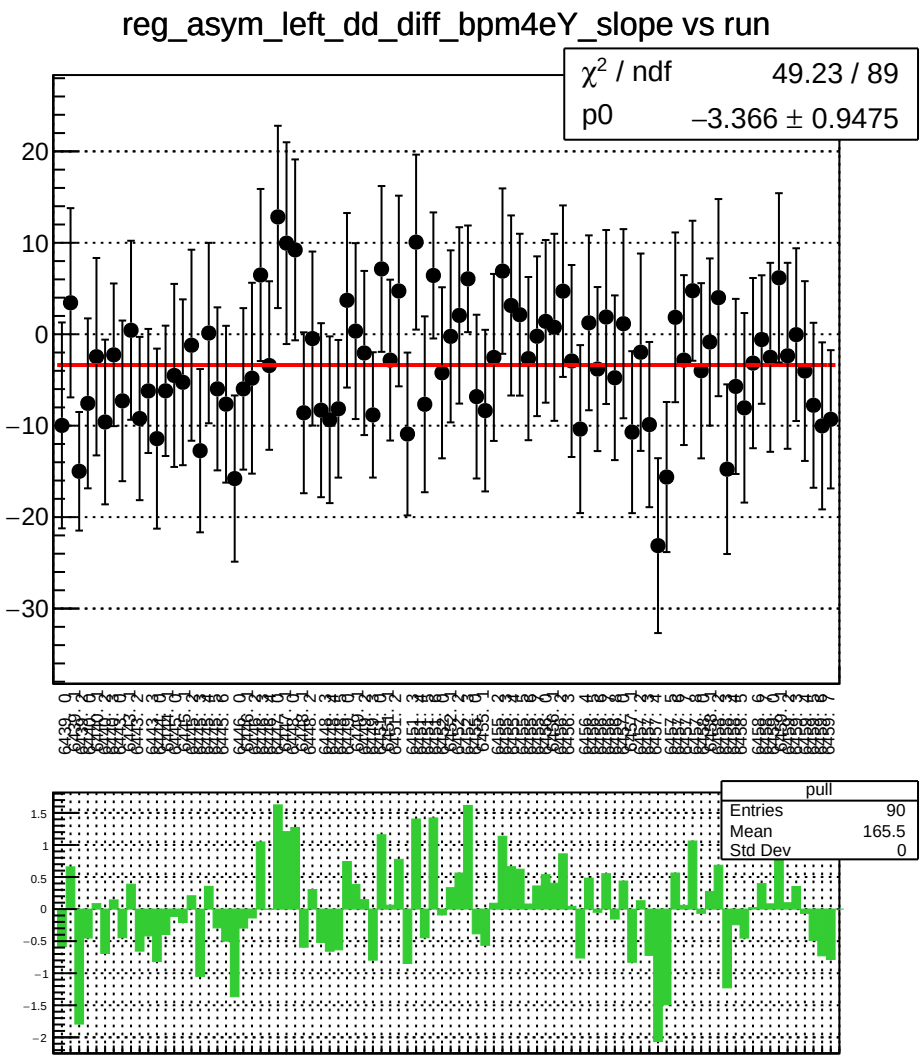

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 46.62 / 89
p0 −50.39 ± 0.8119
−30
−40
−50
−60
−70
pull
Entries 90
Mean 69.4
Std Dev 69.07
3
2
1
0
−1
−2

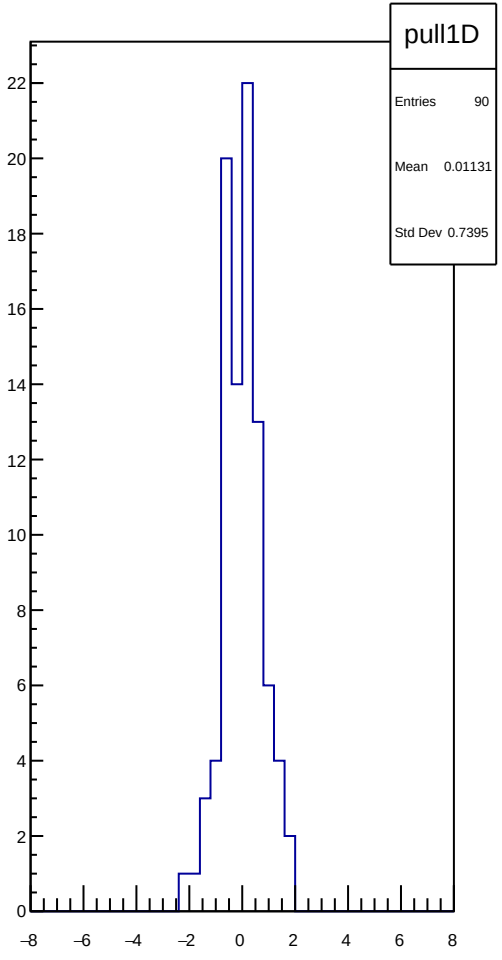

pull1D
Entries 90
Mean −0.03174
Std Dev 0.719
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

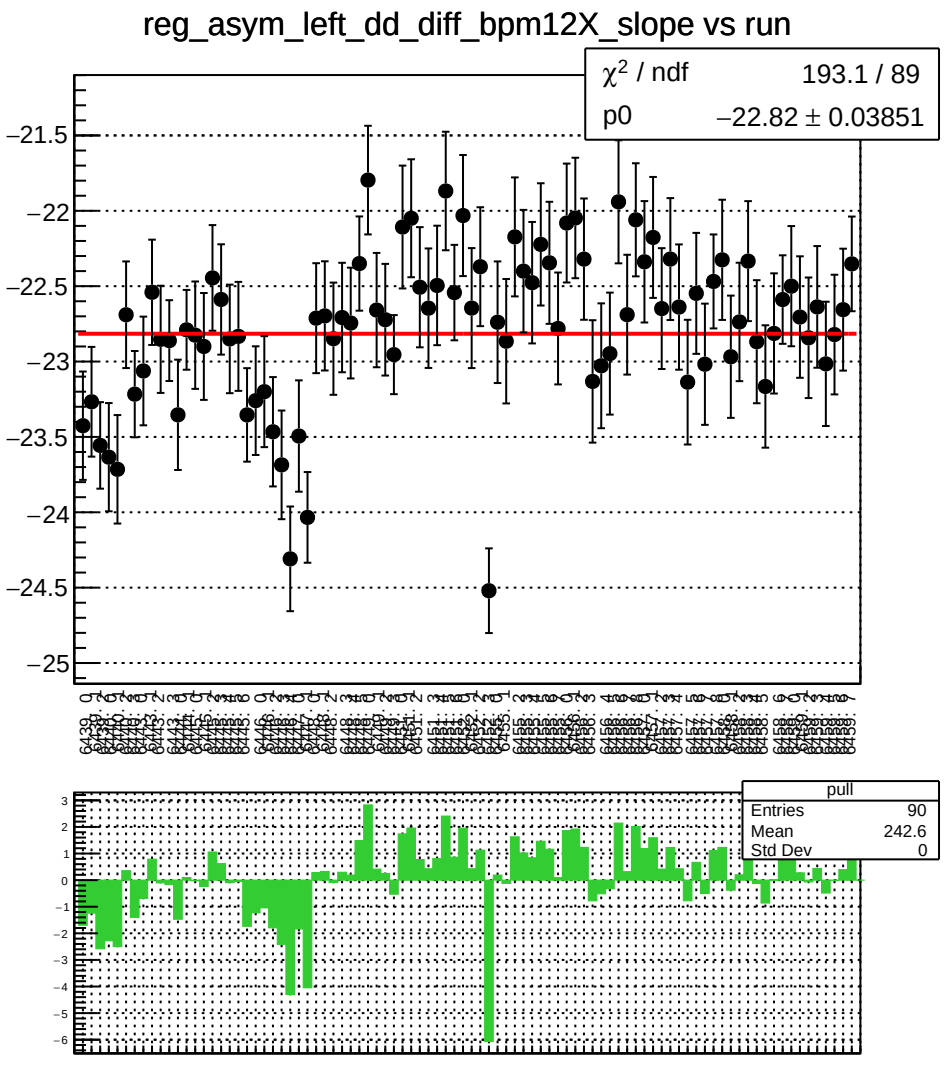

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 45.96 / 89
p0 9.859 ± 0.9461
pull
Entries 90
Mean 67.41
Std Dev 0
pull1D
Entries 90
Mean −0.01844
Std Dev 0.7144

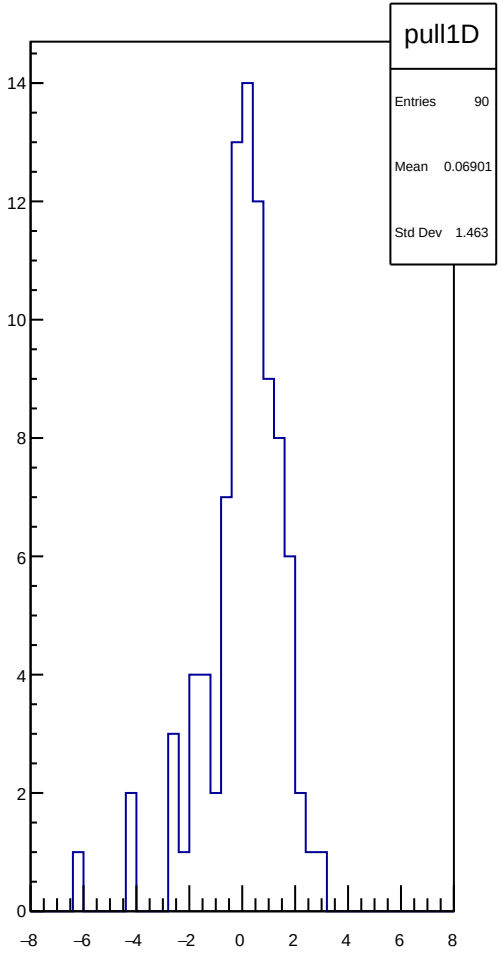

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 47.49 / 89
p0 25.19 ± 0.8191
pull
Entries 90
Mean 63.72
Std Dev 67.8

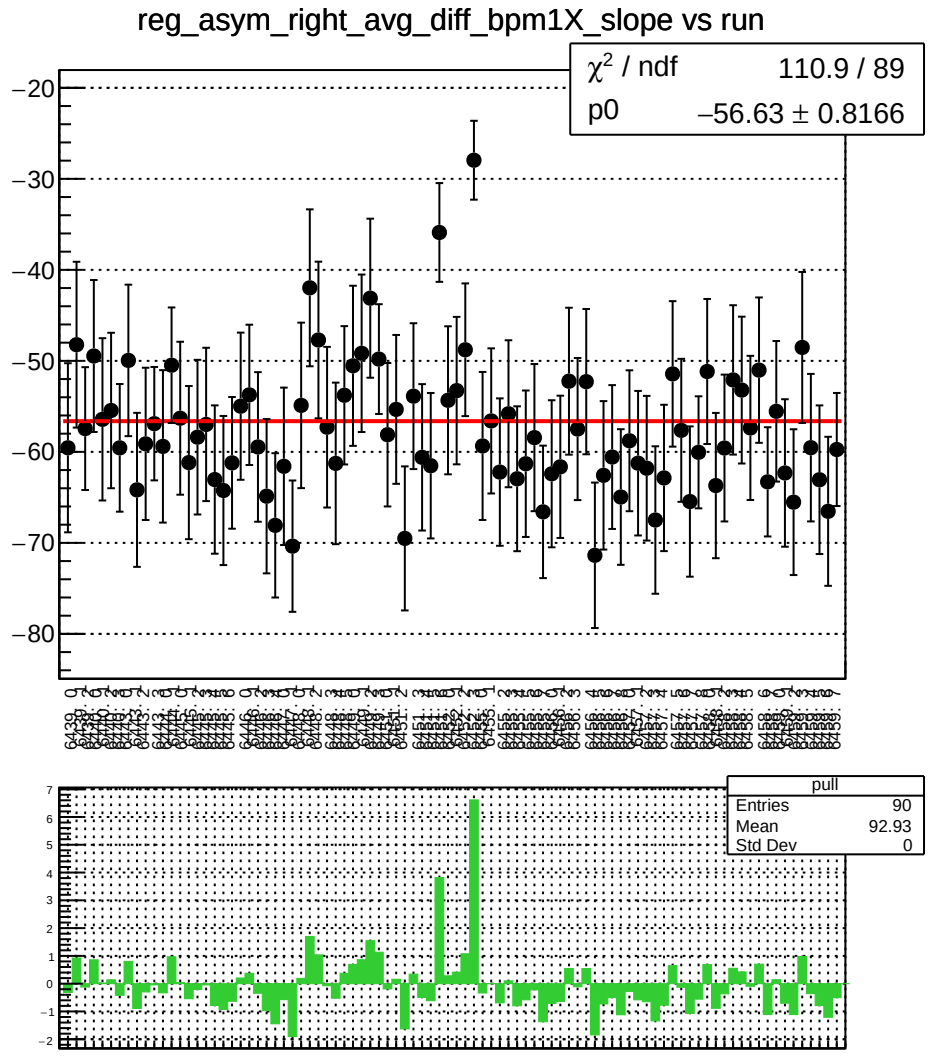

pull1D
Entries 90
Mean 0.03413
Std Dev 0.7256

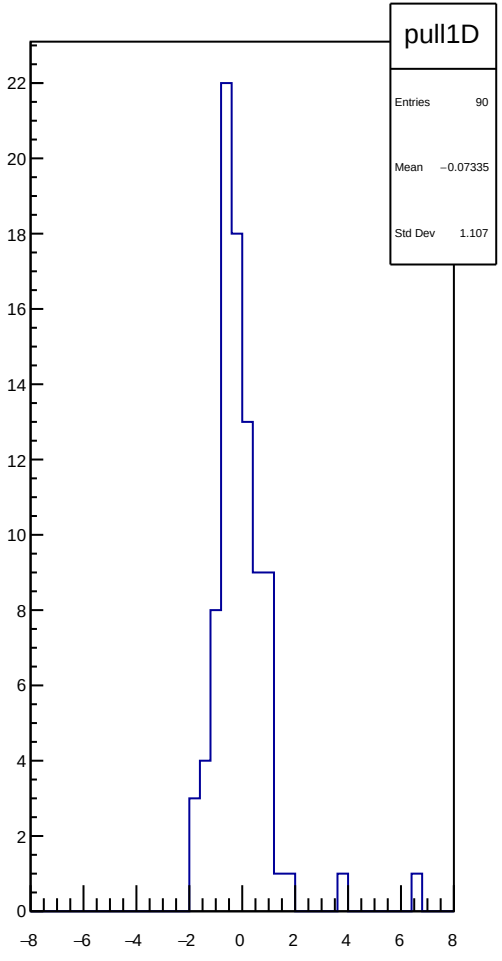

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 49.23 / 89
p0 −3.366 ± 0.9475
pull
Entries 90
Mean 165.5
Std Dev 0

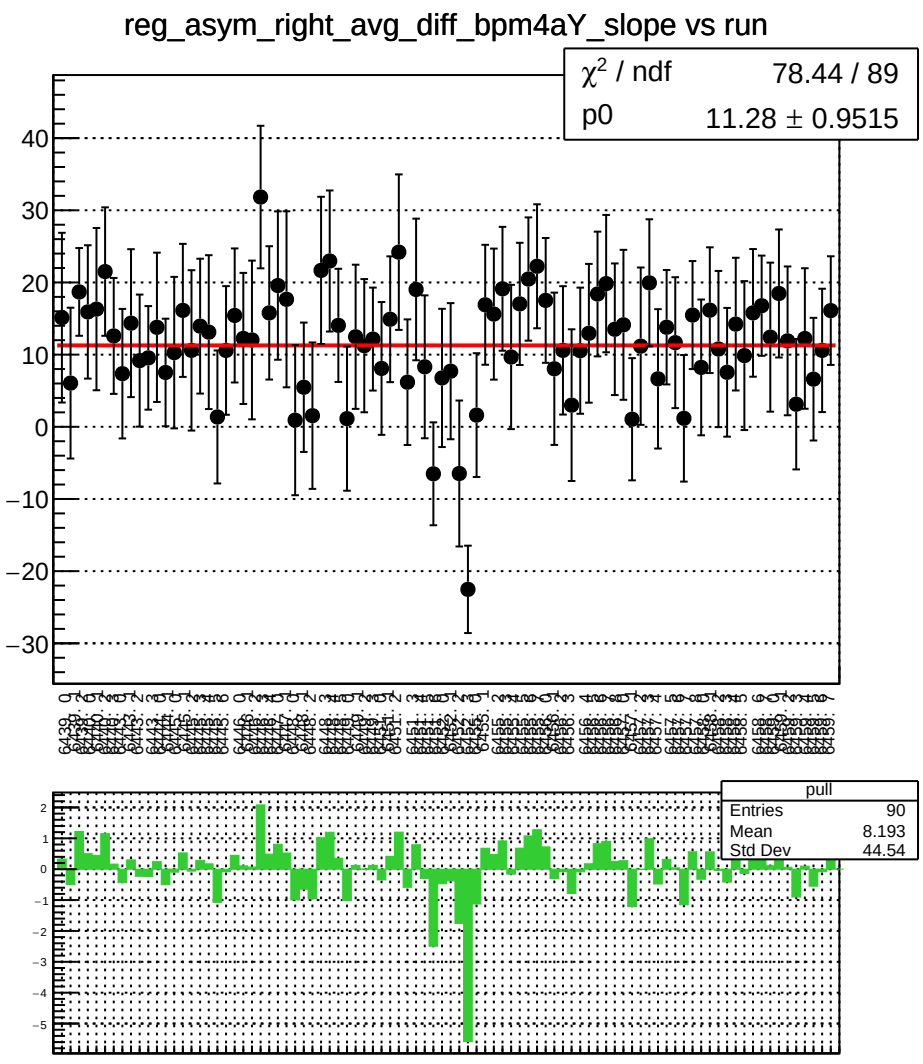

pull1D
Entries 90
Mean 0.01131
Std Dev 0.7395

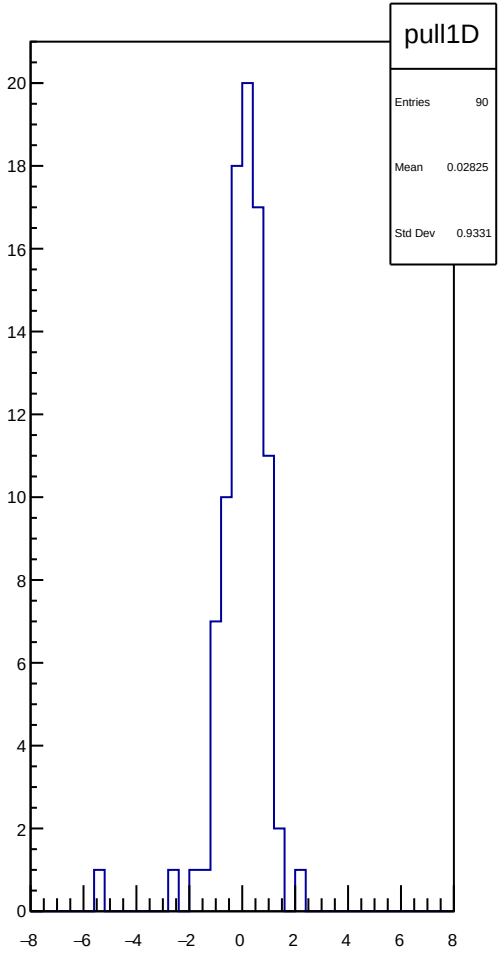

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 193.1 / 89
p0 −22.82 ± 0.03851
pull
Entries 90
Mean 242.6
Std Dev 0

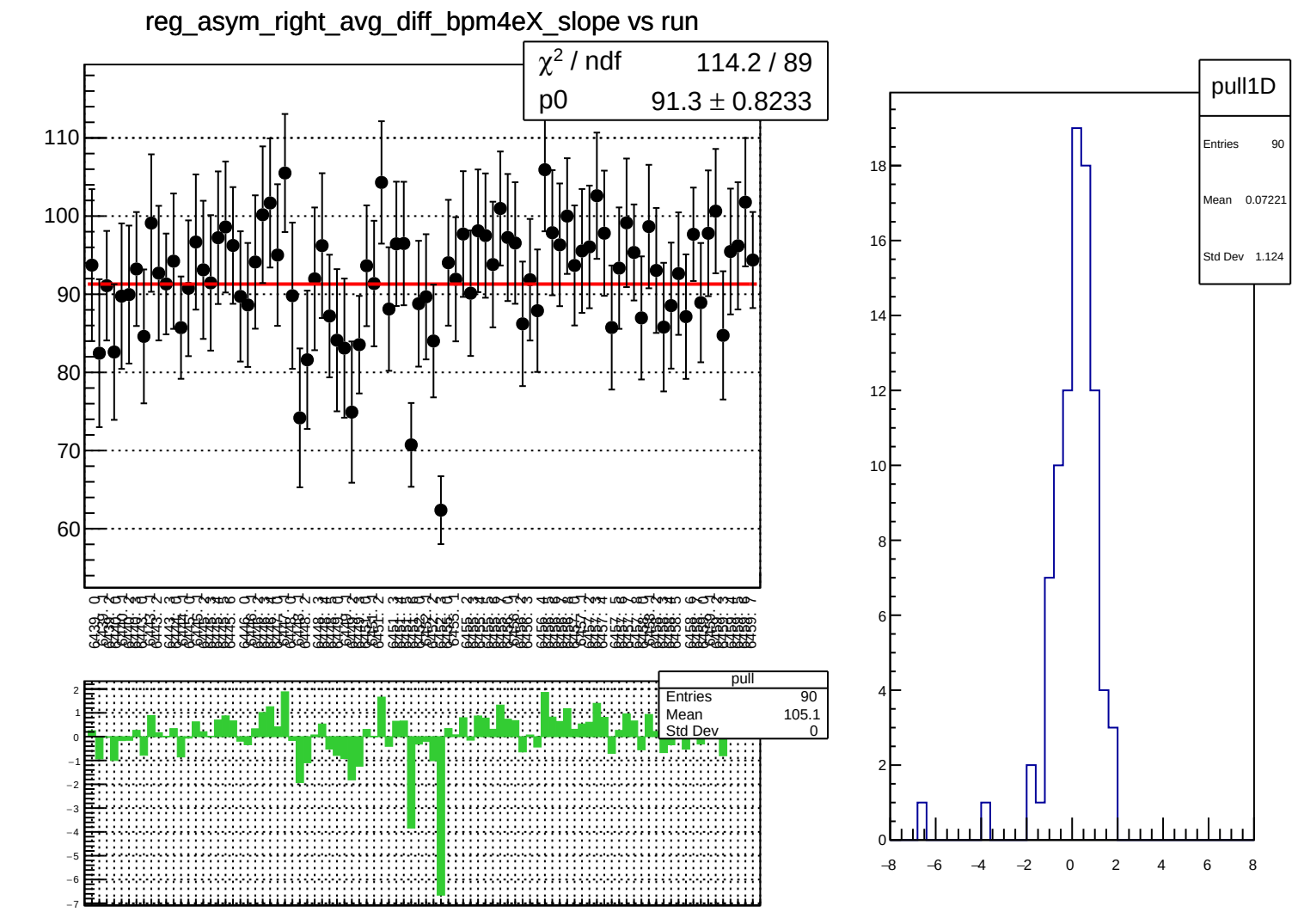

pull1D
Entries 90
Mean 0.06901
Std Dev 1.463

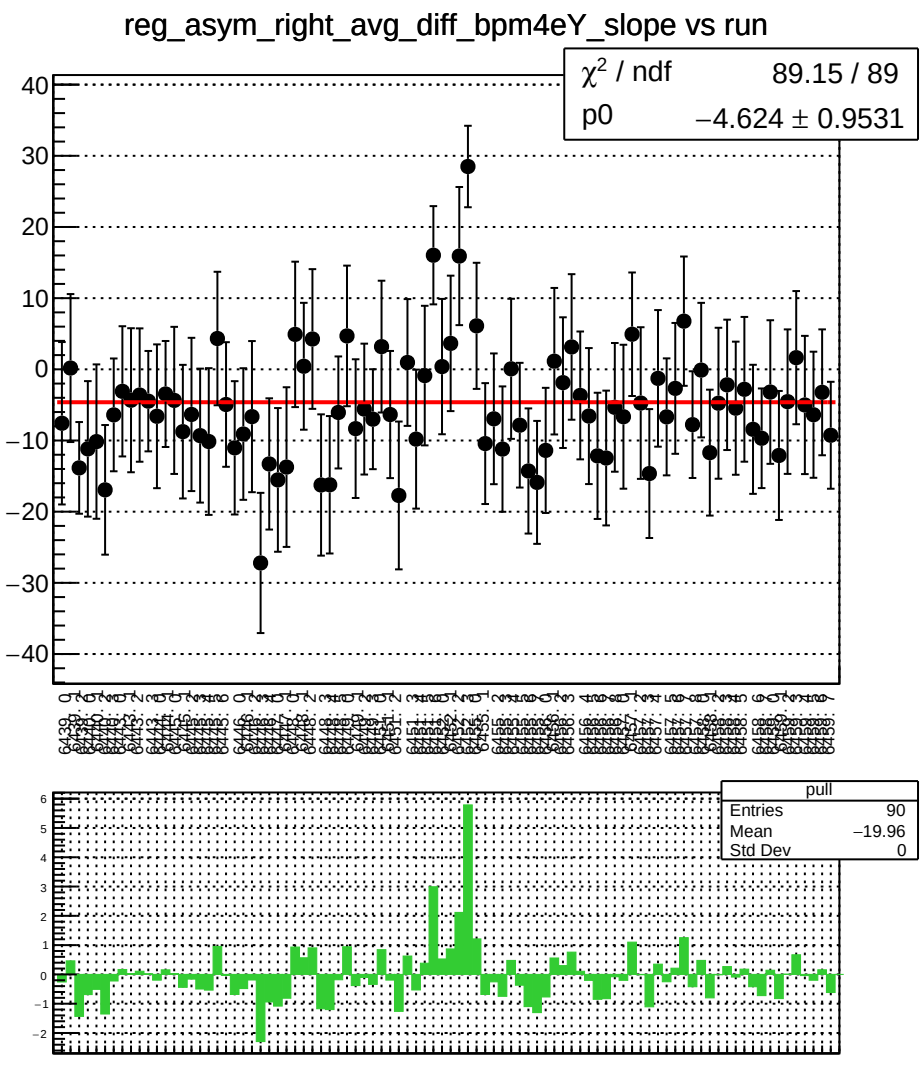

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 110.9 / 89
p0 −56.63 ± 0.8166
pull
Entries 90
Mean 92.93
Std Dev 0

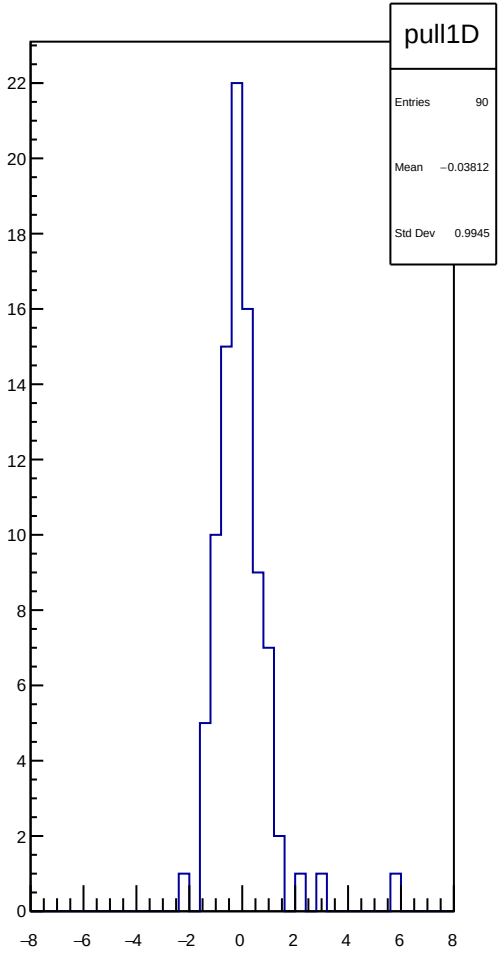

pull1D
Entries 90
Mean −0.07335
Std Dev 1.107

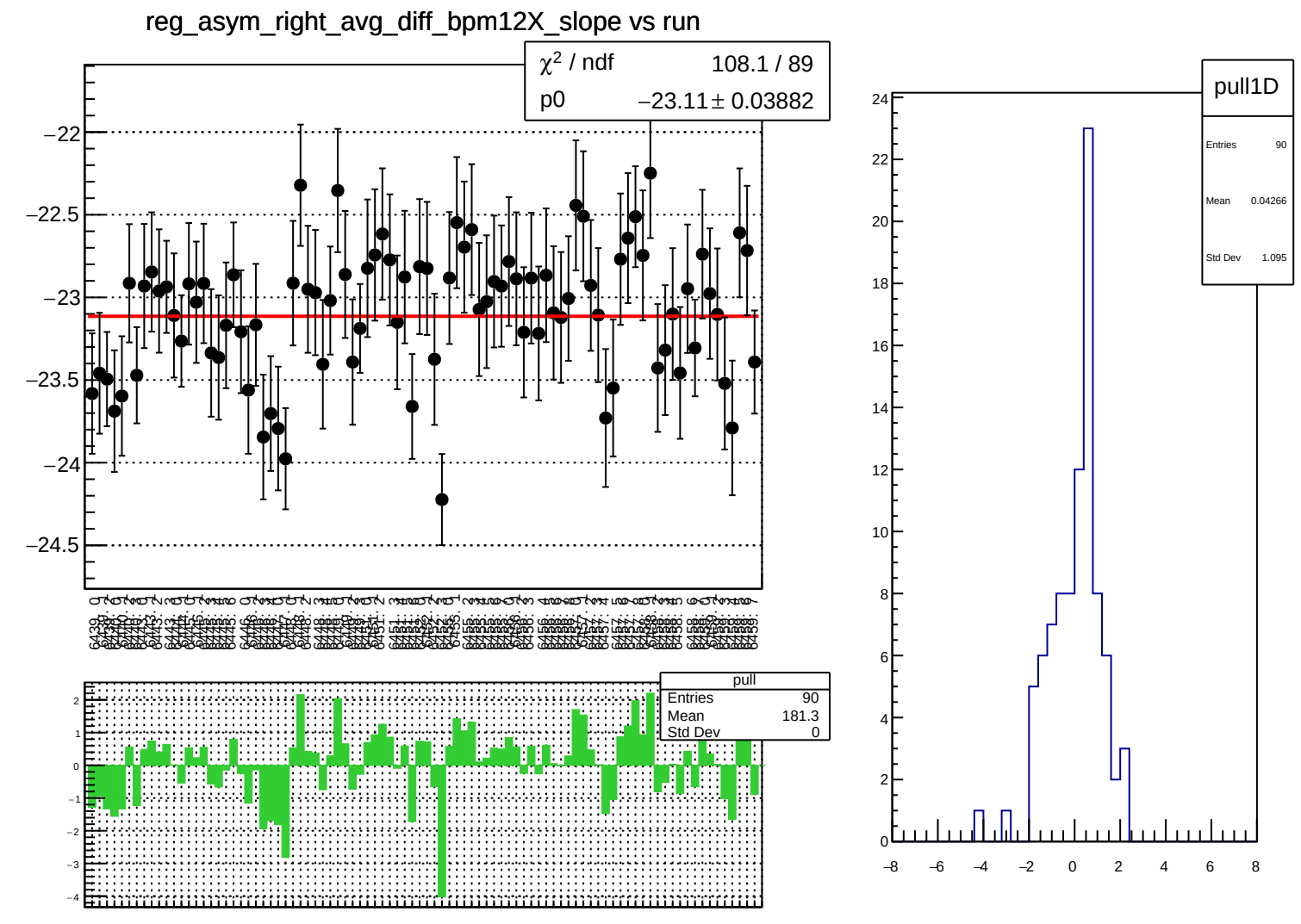

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 78.44 / 89
p0 11.28 ± 0.9515
pull
Entries 90
Mean 8.193
Std Dev 44.54

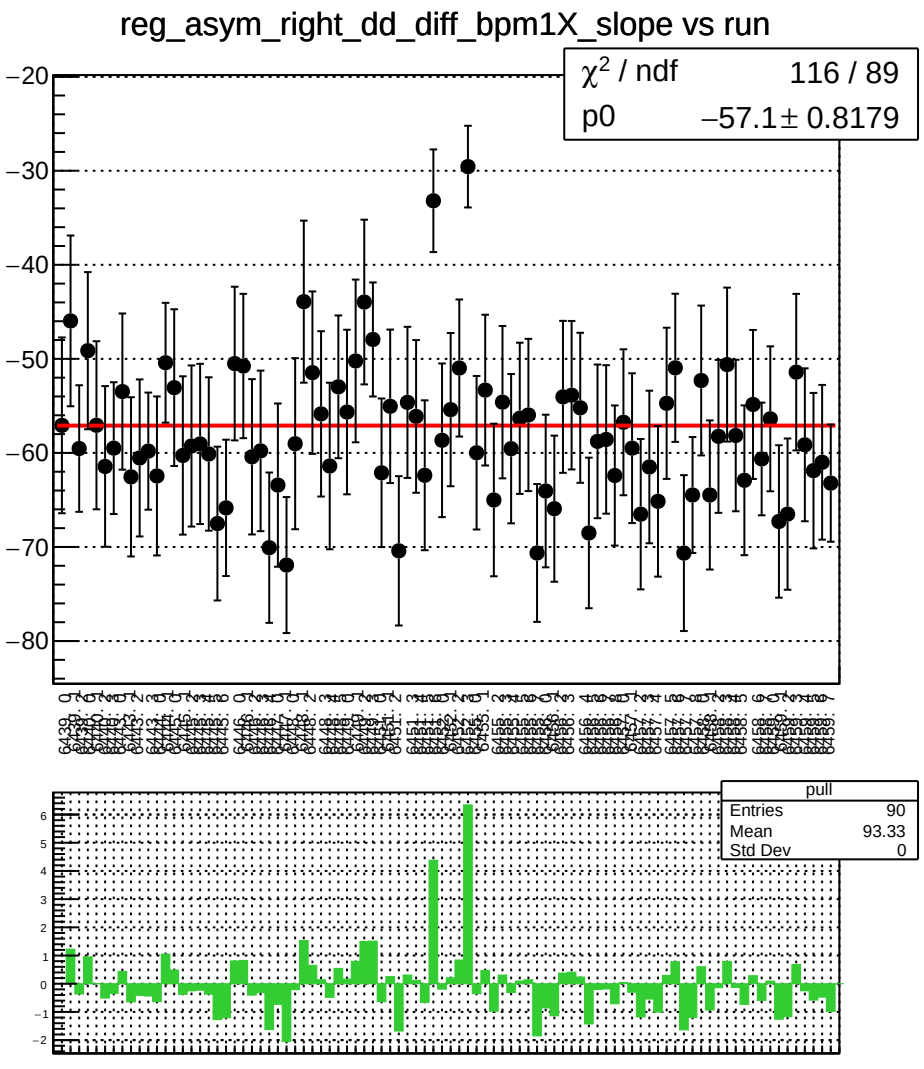

pull1D
Entries 90
Mean 0.02825
Std Dev 0.9331

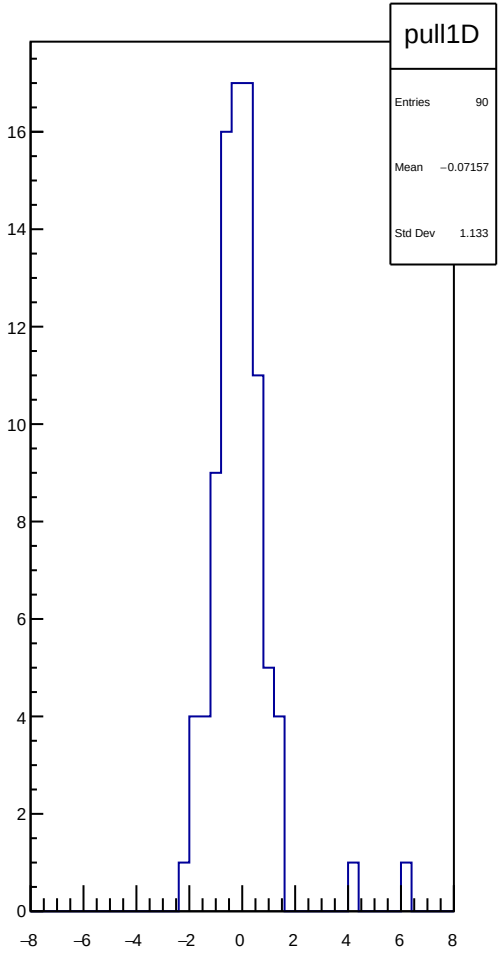

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 114.2 / 89
p0 91.3 ± 0.8233
110
100
90
80
70
60
pull
Entries 90
Mean 105.1
Std Dev 0
2
1
0
−1
−2
−3
−4
−5
−6
−7
pull1D
Entries 90
Mean 0.07221
Std Dev 1.124
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

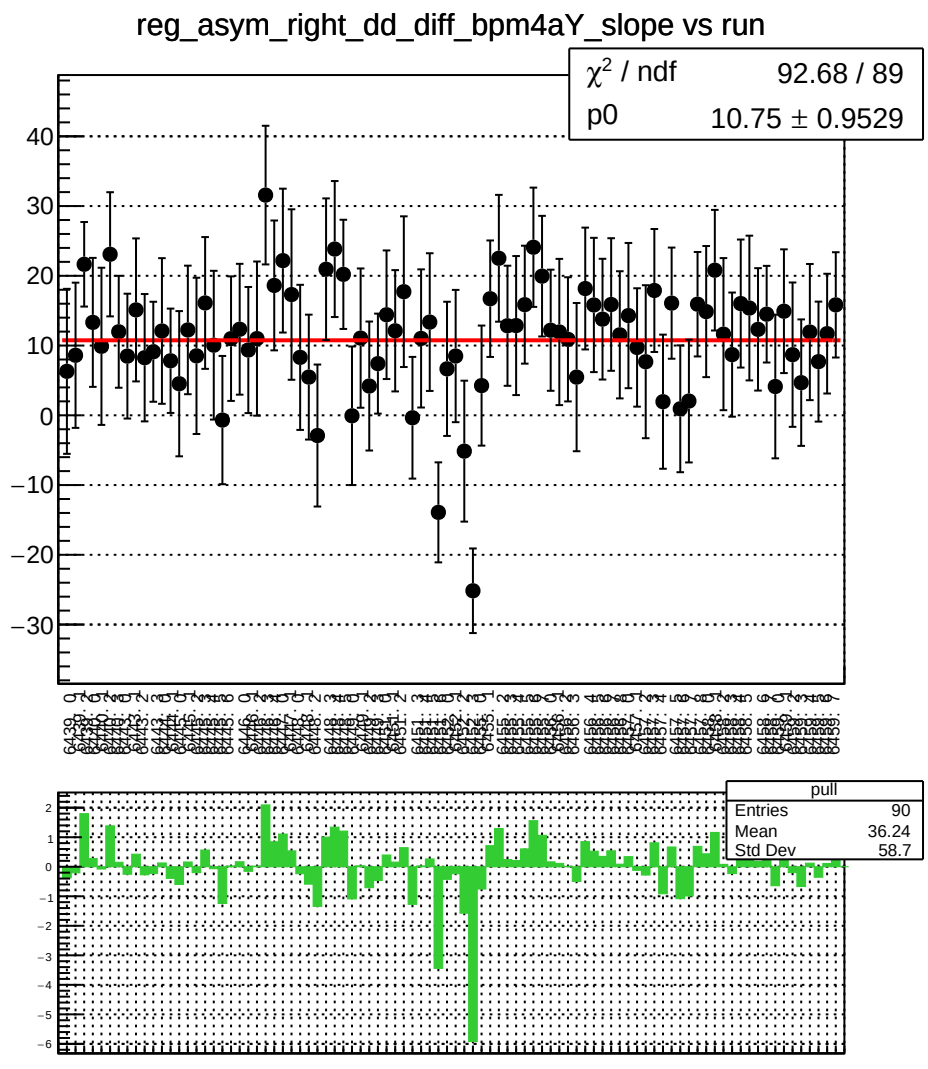

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 89.15 / 89
p0 −4.624 ± 0.9531
pull
Entries 90
Mean −19.96
Std Dev 0

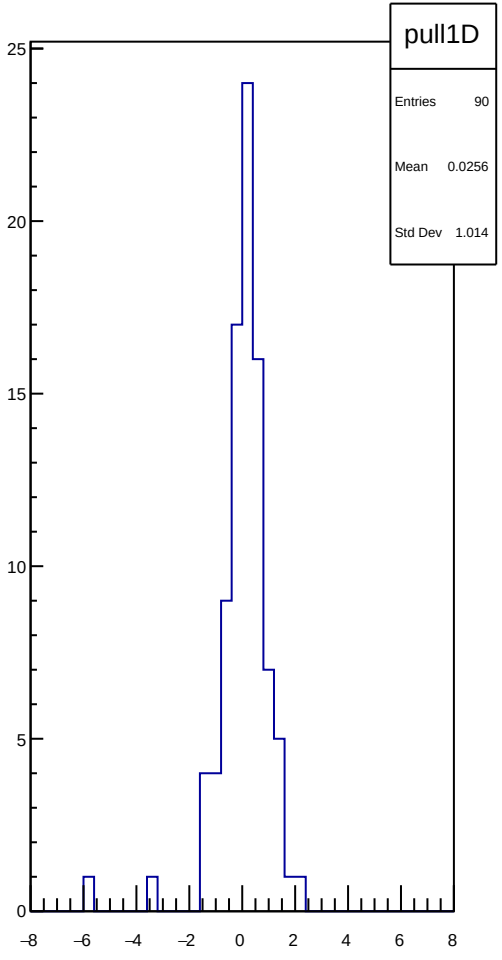

pull1D
Entries 90
Mean −0.03812
Std Dev 0.9945

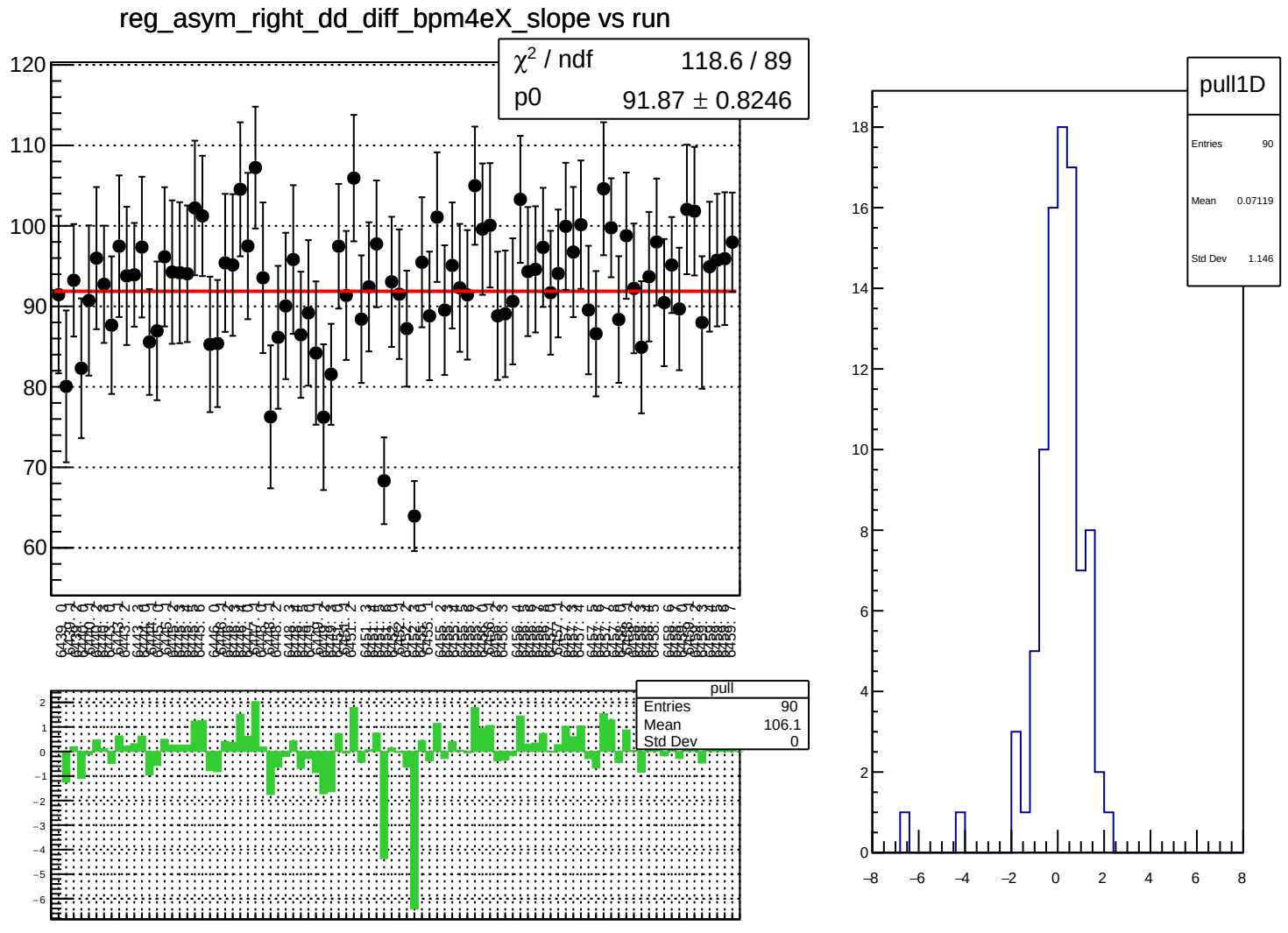

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 108.1 / 89
p0 −23.11 ± 0.03882
−22
−22.5
−23
−23.5
−24
−24.5
pull
Entries 90
Mean 181.3
Std Dev 0
2
1
0
−1
−2
−3
−4
pull1D
Entries 90
Mean 0.04266
Std Dev 1.095
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

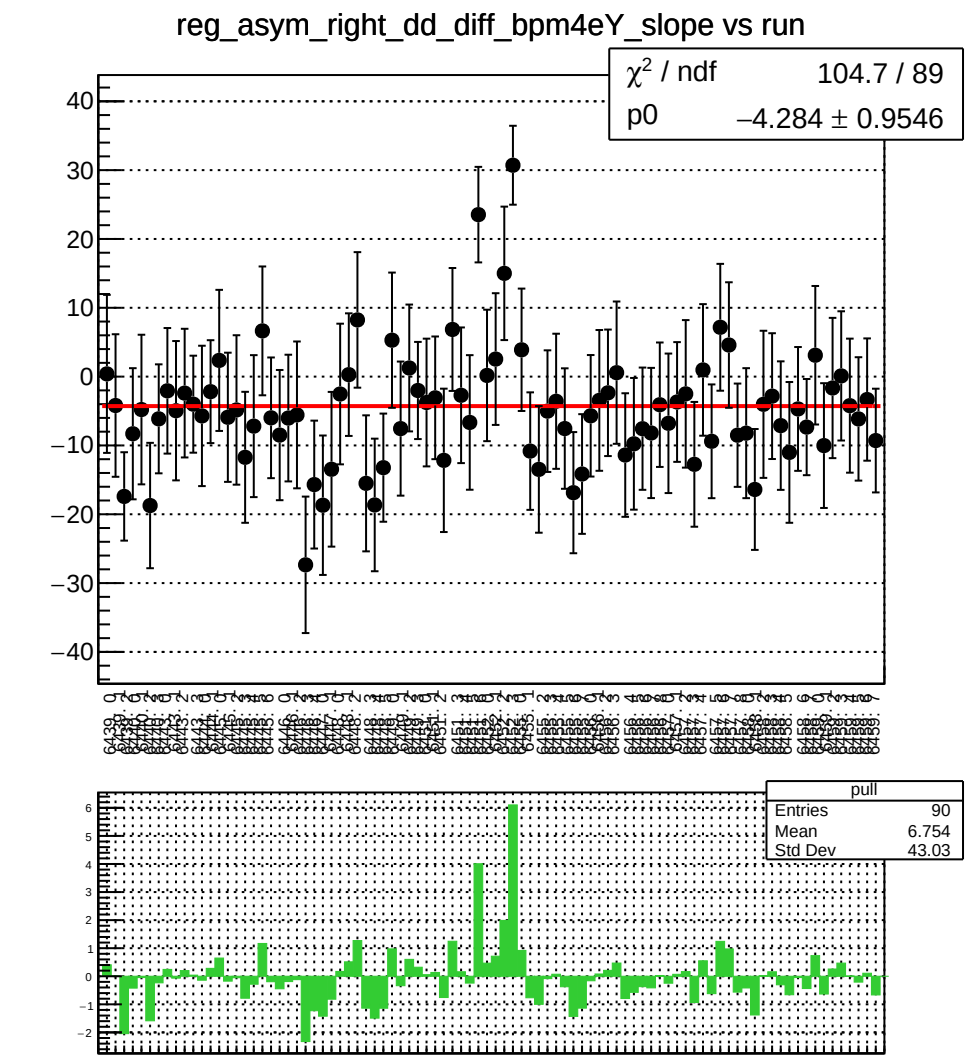

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 116 / 89
p0 −57.1 ± 0.8179
pull
Entries 90
Mean 93.33
Std Dev 0

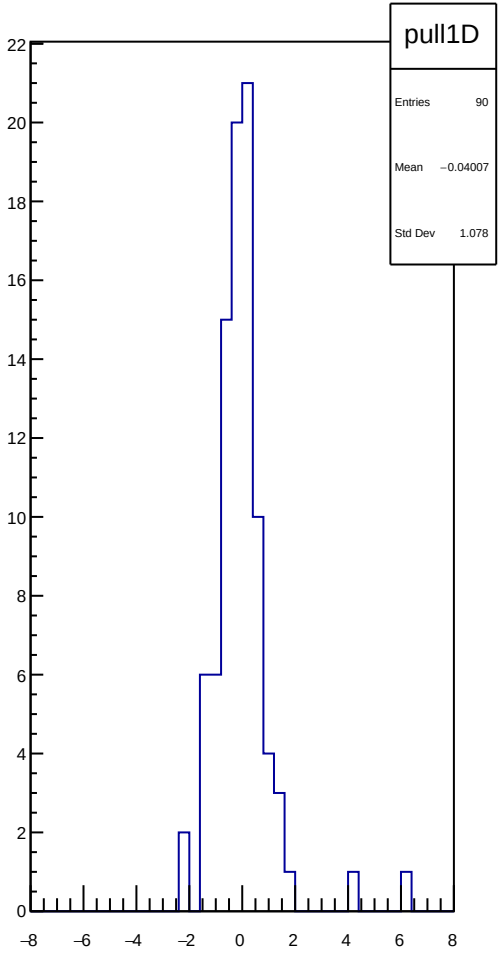

pull1D
Entries 90
Mean −0.07157
Std Dev 1.133

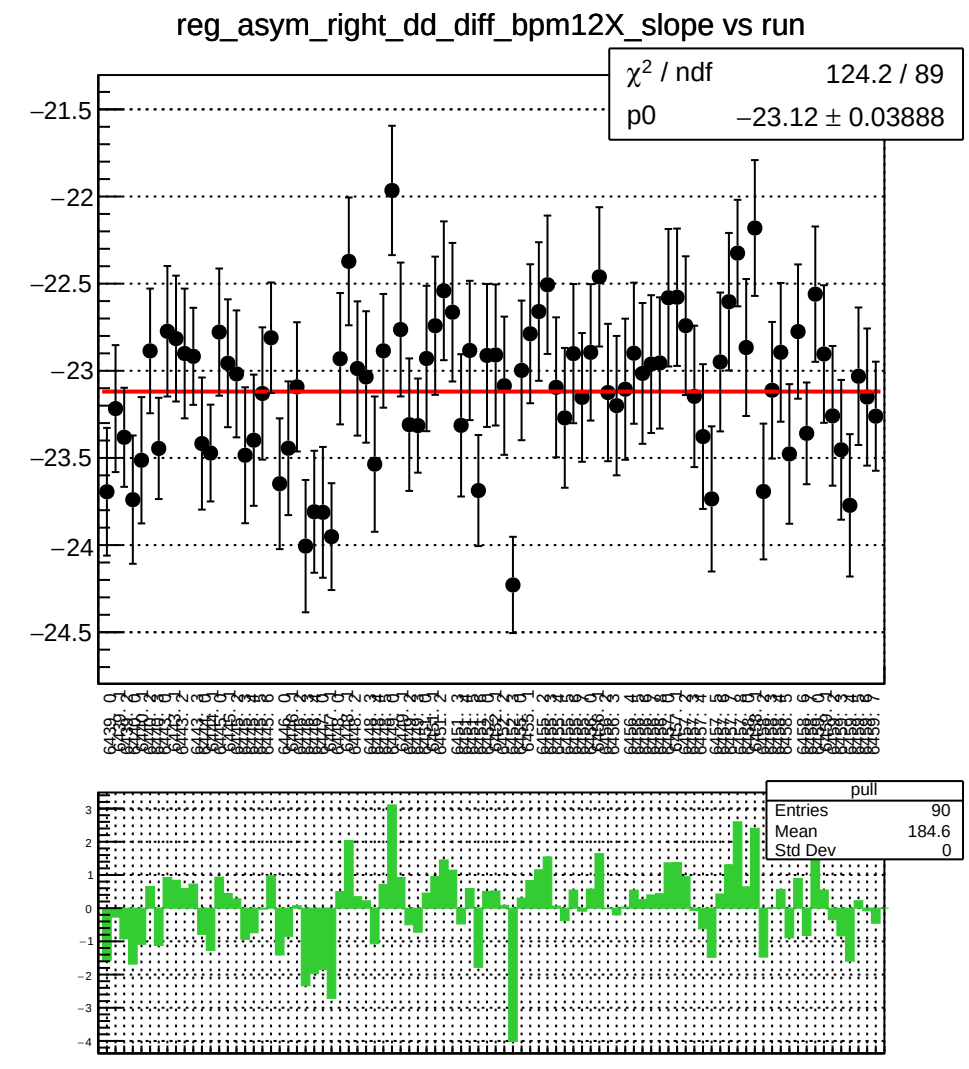

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 92.68 / 89
p0 10.75 ± 0.9529
pull
Entries 90
Mean 36.24
Std Dev 58.7

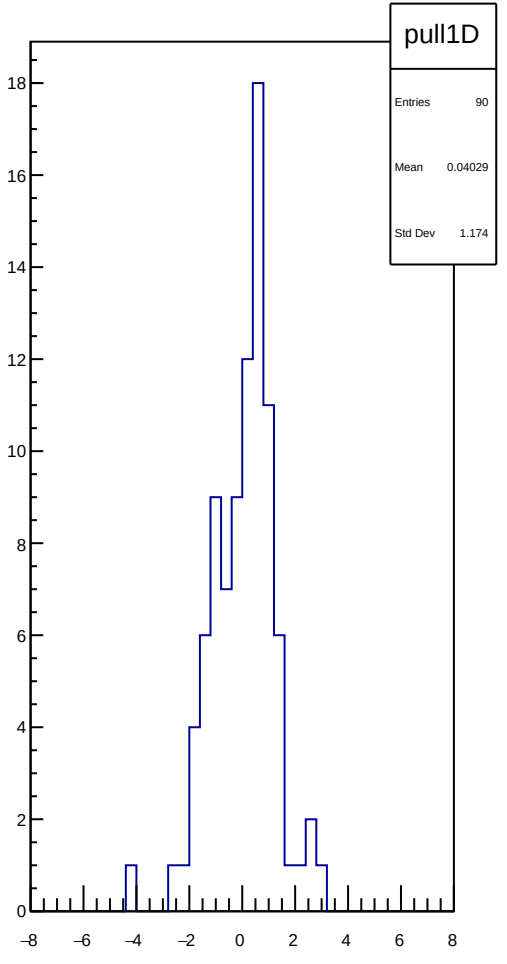

pull1D
Entries 90
Mean 0.0256
Std Dev 1.014

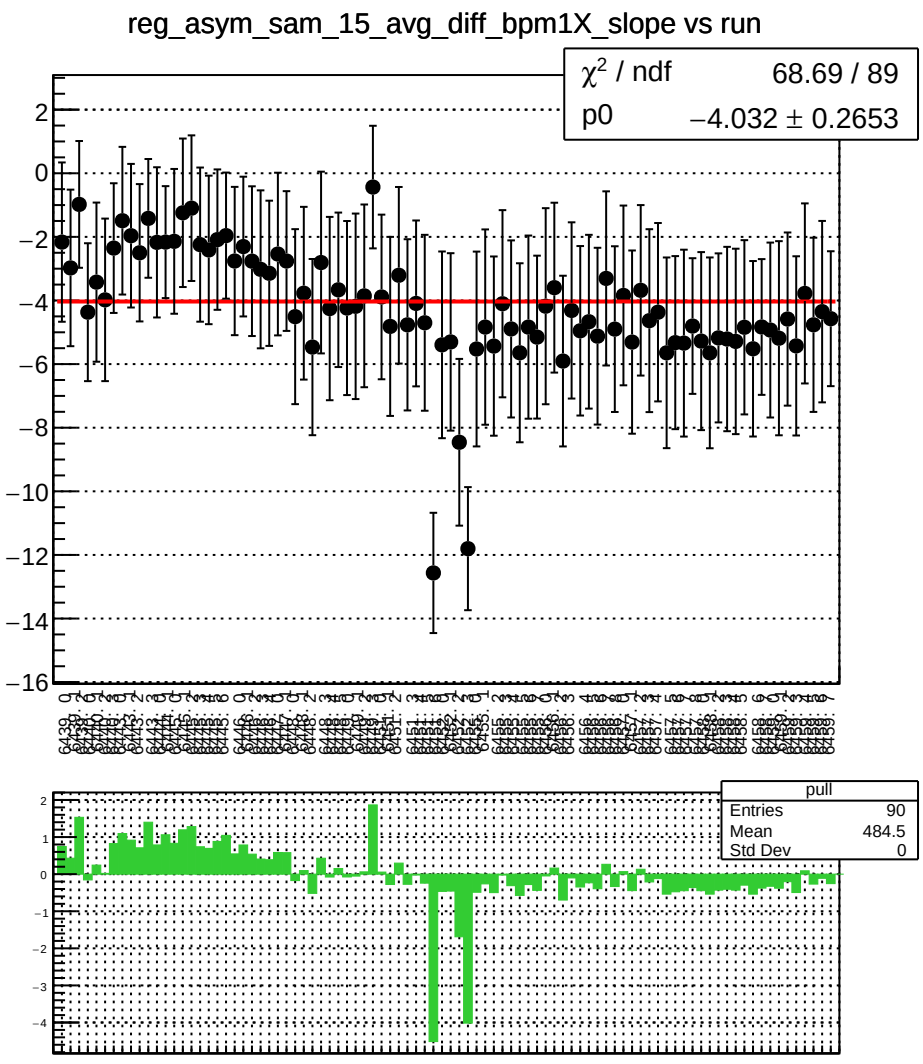

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 118.6 / 89
p0 91.87 ± 0.8246
pull
Entries 90
Mean 106.1
Std Dev 0
pull1D
Entries 90
Mean 0.07119
Std Dev 1.146

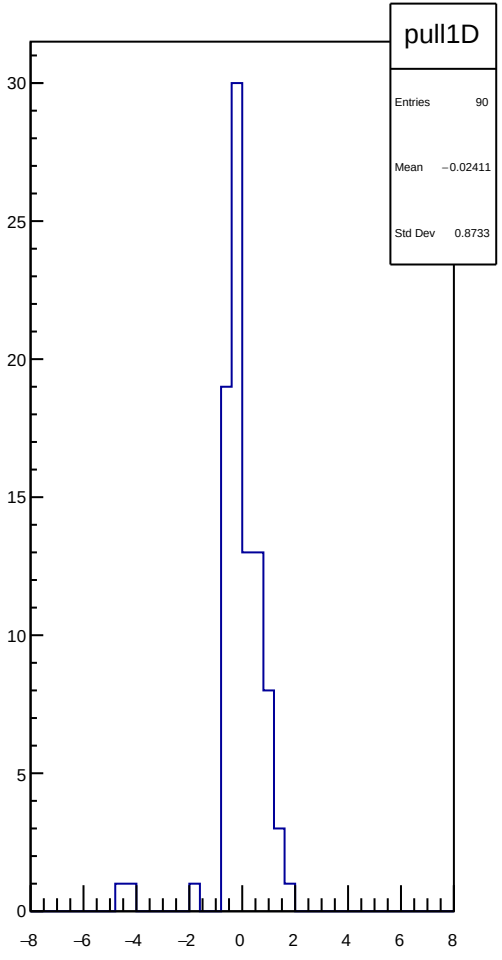

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 104.7 / 89
p0 −4.284 ± 0.9546
pull
Entries 90
Mean 6.754
Std Dev 43.03

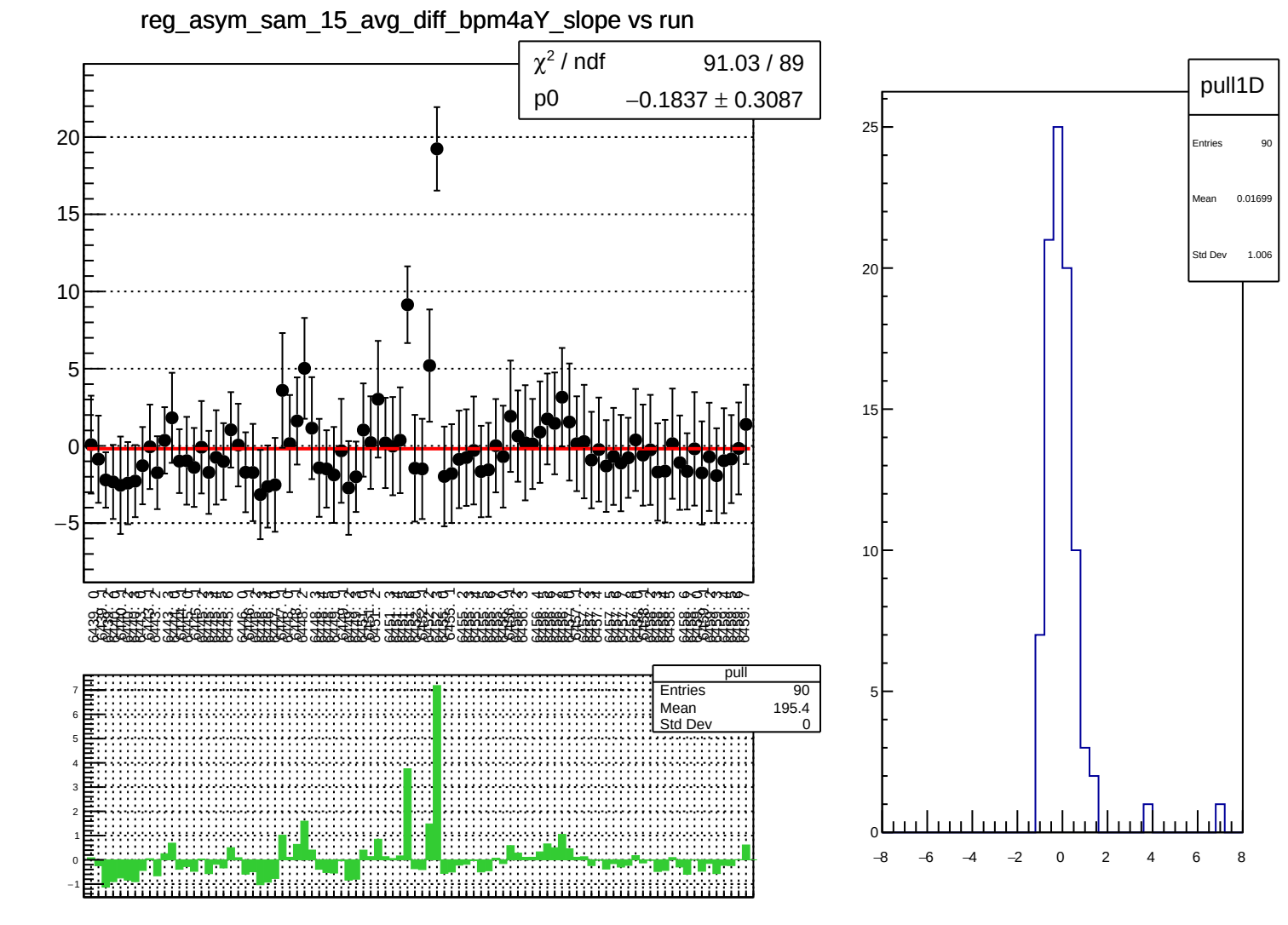

pull1D
Entries 90
Mean −0.04007
Std Dev 1.078

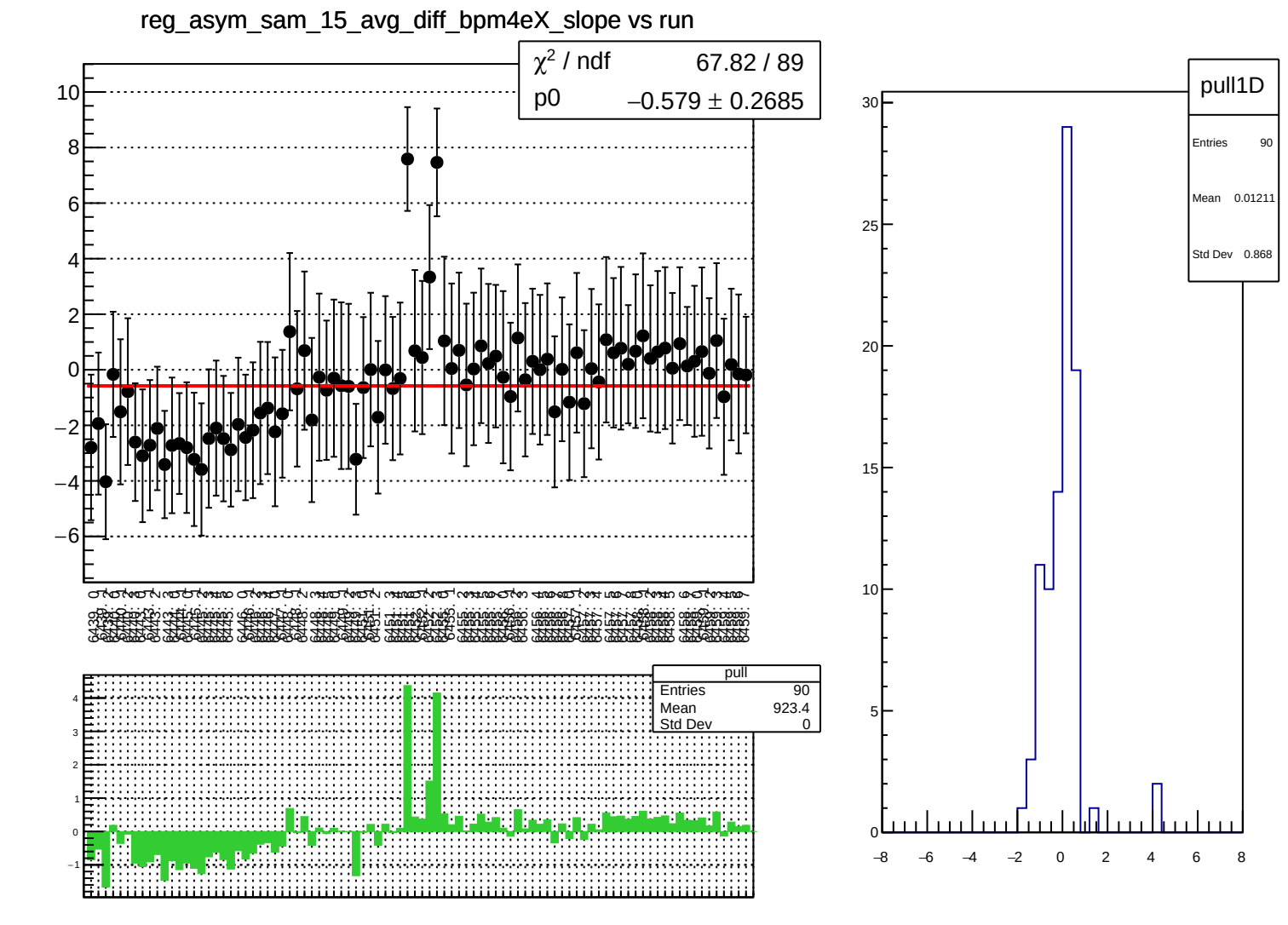

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 124.2 / 89
p0 −23.12 ± 0.03888
pull
Entries 90
Mean 184.6
Std Dev 0

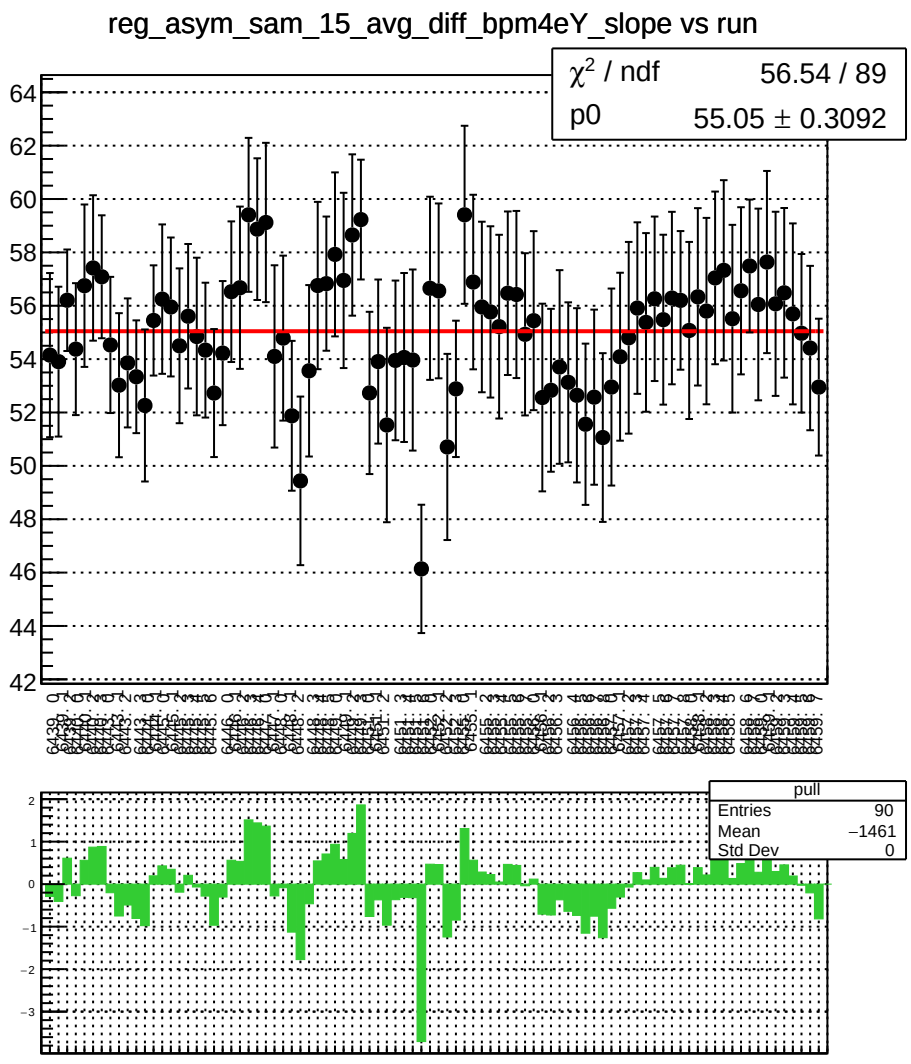

pull1D
Entries 90
Mean 0.04029
Std Dev 1.174

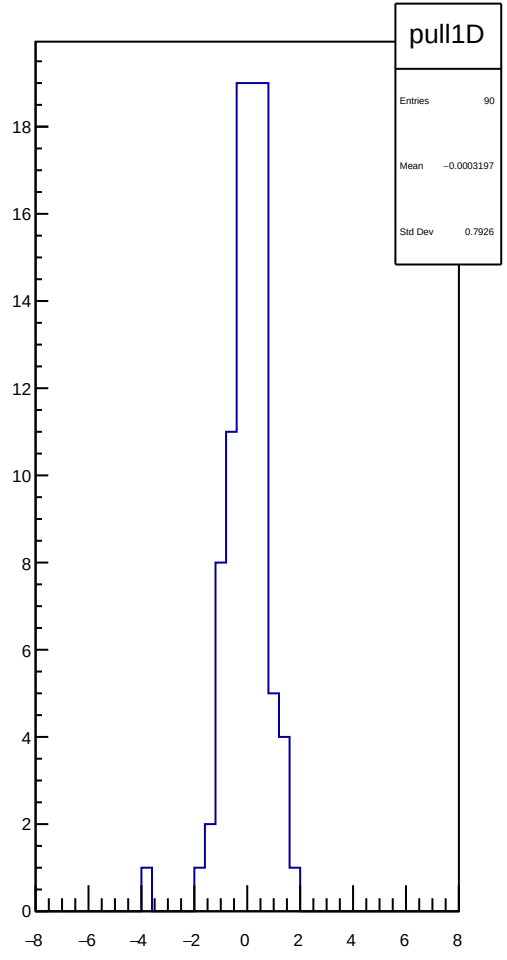

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 68.69 / 89
p0 −4.032 ± 0.2653
pull
Entries 90
Mean 484.5
Std Dev 0

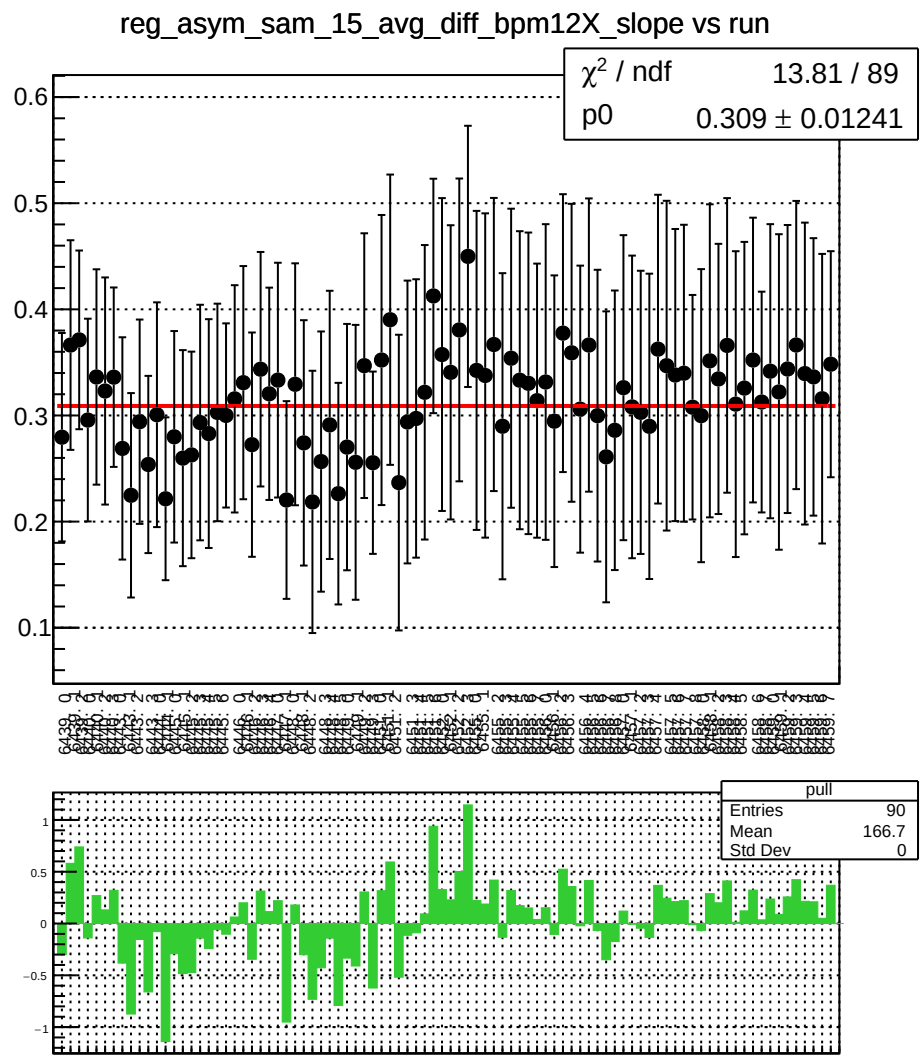

pull1D
Entries 90
Mean −0.02411
Std Dev 0.8733

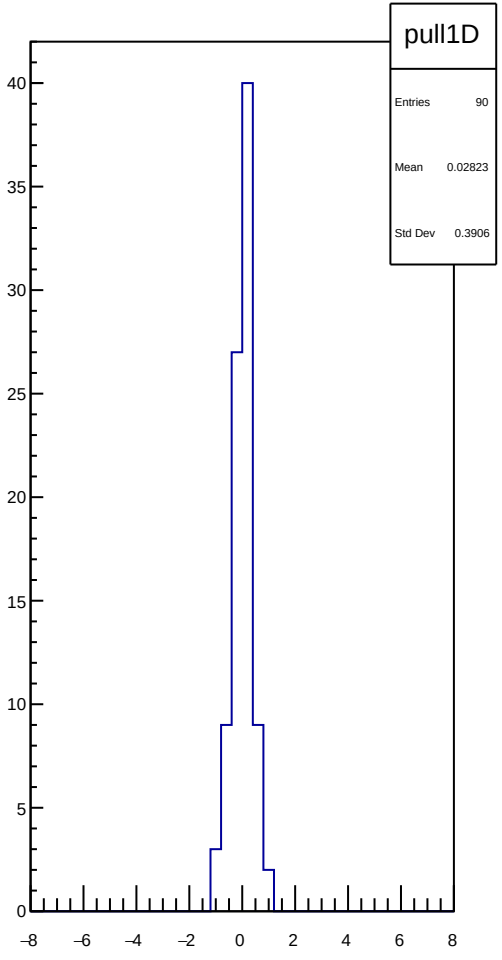

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 91.03 / 89
p0 −0.1837 ± 0.3087
pull
Entries 90
Mean 195.4
Std Dev 0
pull1D
Entries 90
Mean 0.01699
Std Dev 1.006

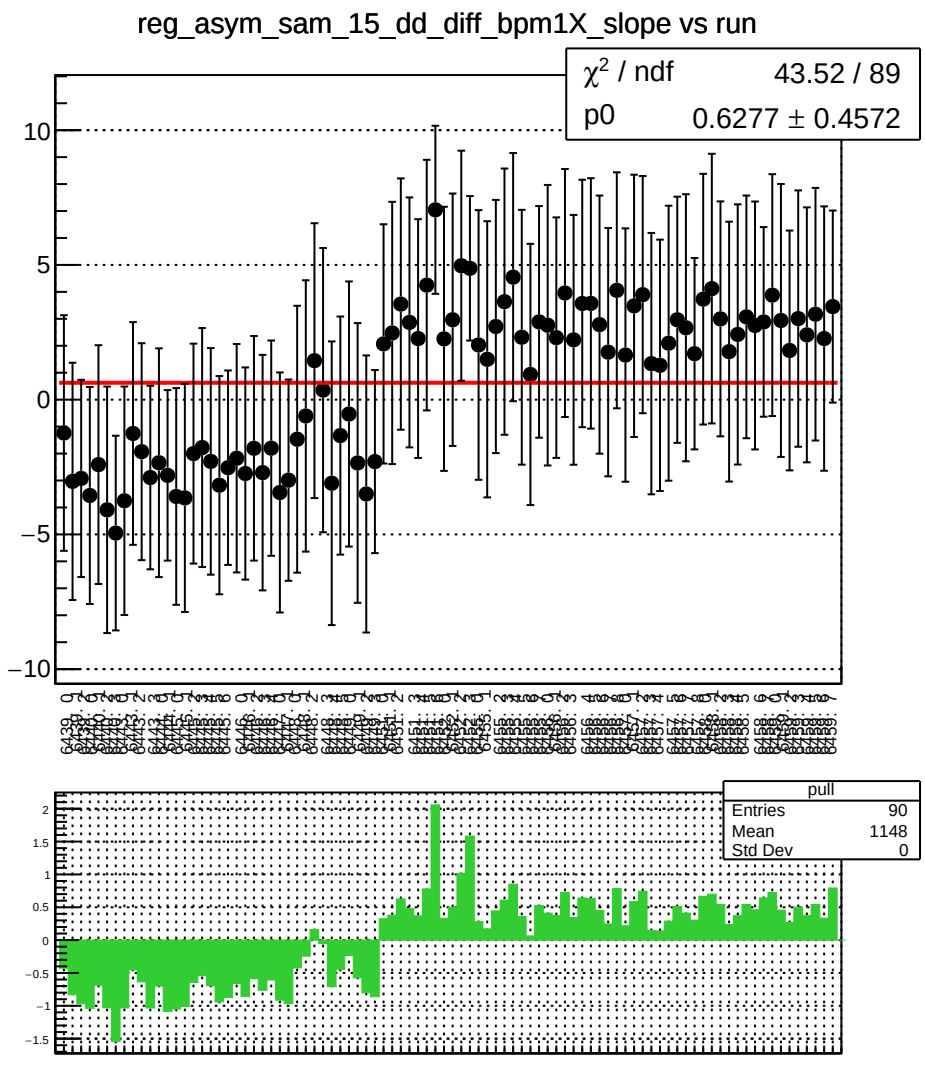

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 67.82 / 89
p0 −0.579 ± 0.2685
pull
Entries 90
Mean 923.4
Std Dev 0
pull1D
Entries 90
Mean 0.01211
Std Dev 0.868

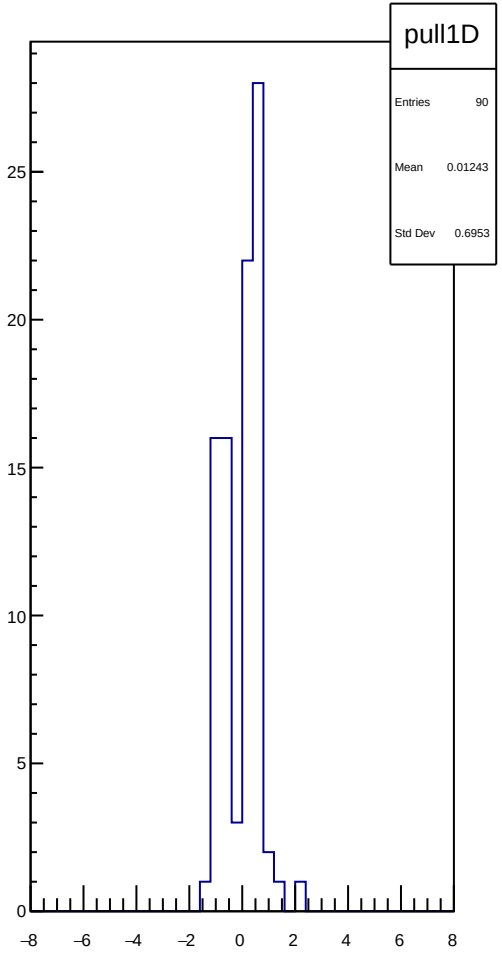

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 56.54 / 89
p0 55.05 ± 0.3092
pull
Entries 90
Mean −1461
Std Dev 0

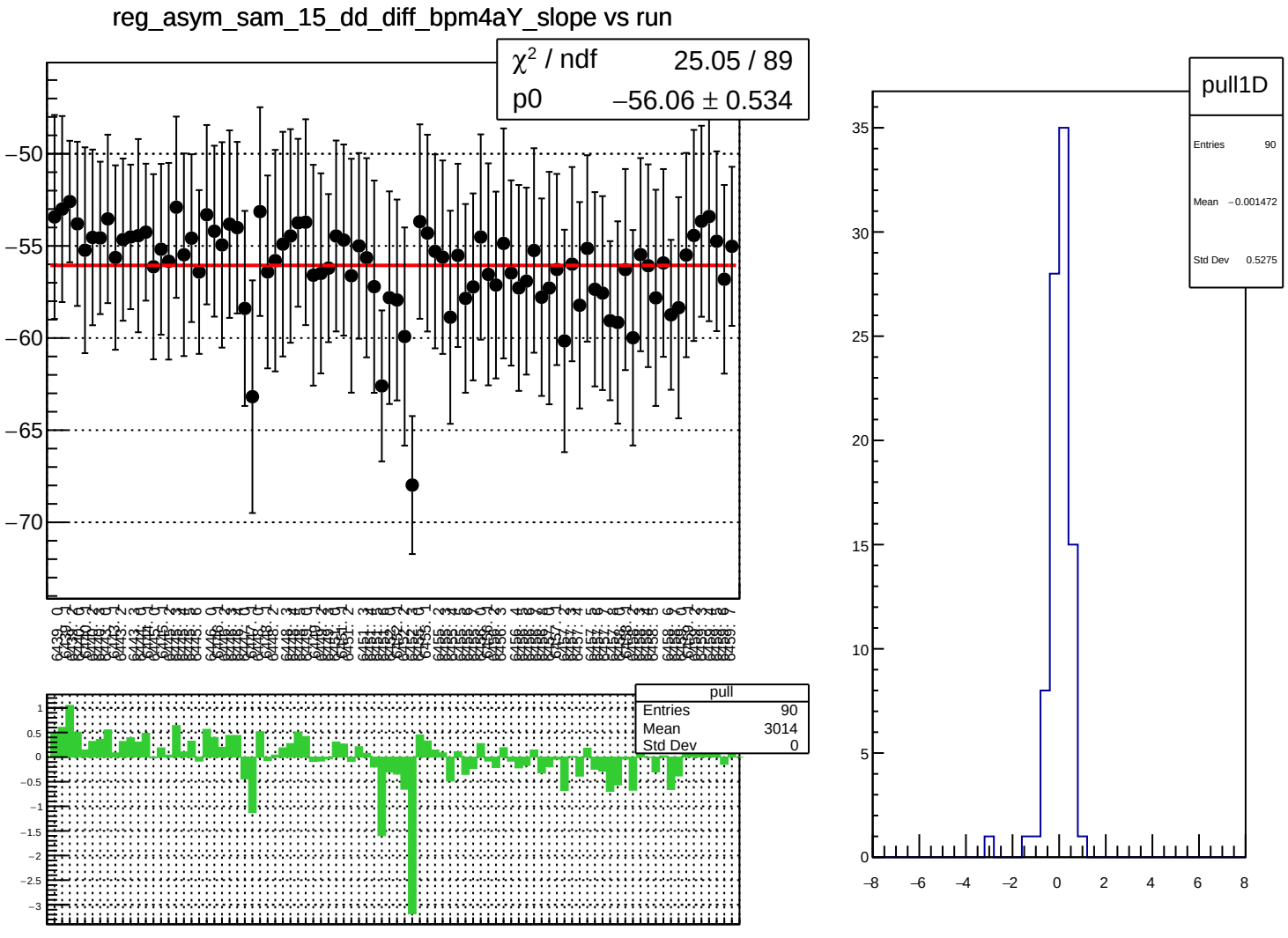

pull1D
Entries 90
Mean −0.0003197
Std Dev 0.7926

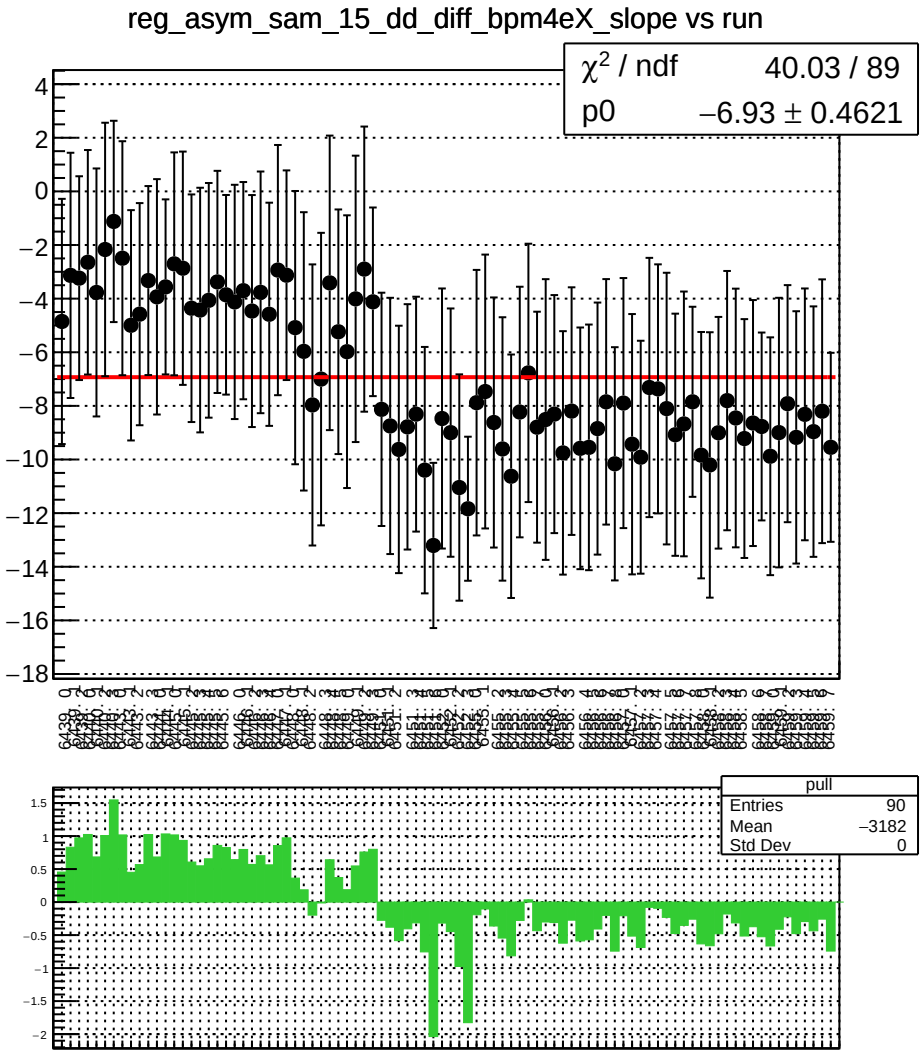

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 13.81 / 89
p0 0.309 ± 0.01241
pull
Entries 90
Mean 166.7
Std Dev 0

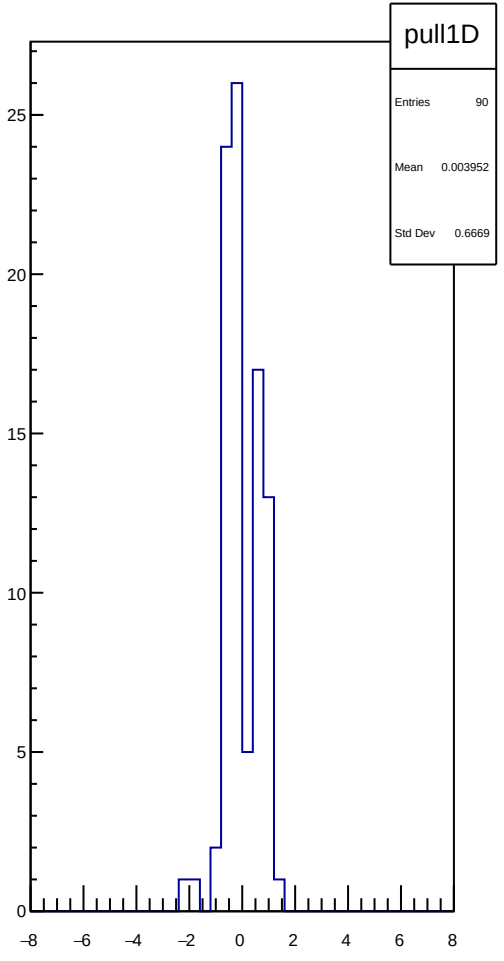

pull1D
Entries 90
Mean 0.02823
Std Dev 0.3906

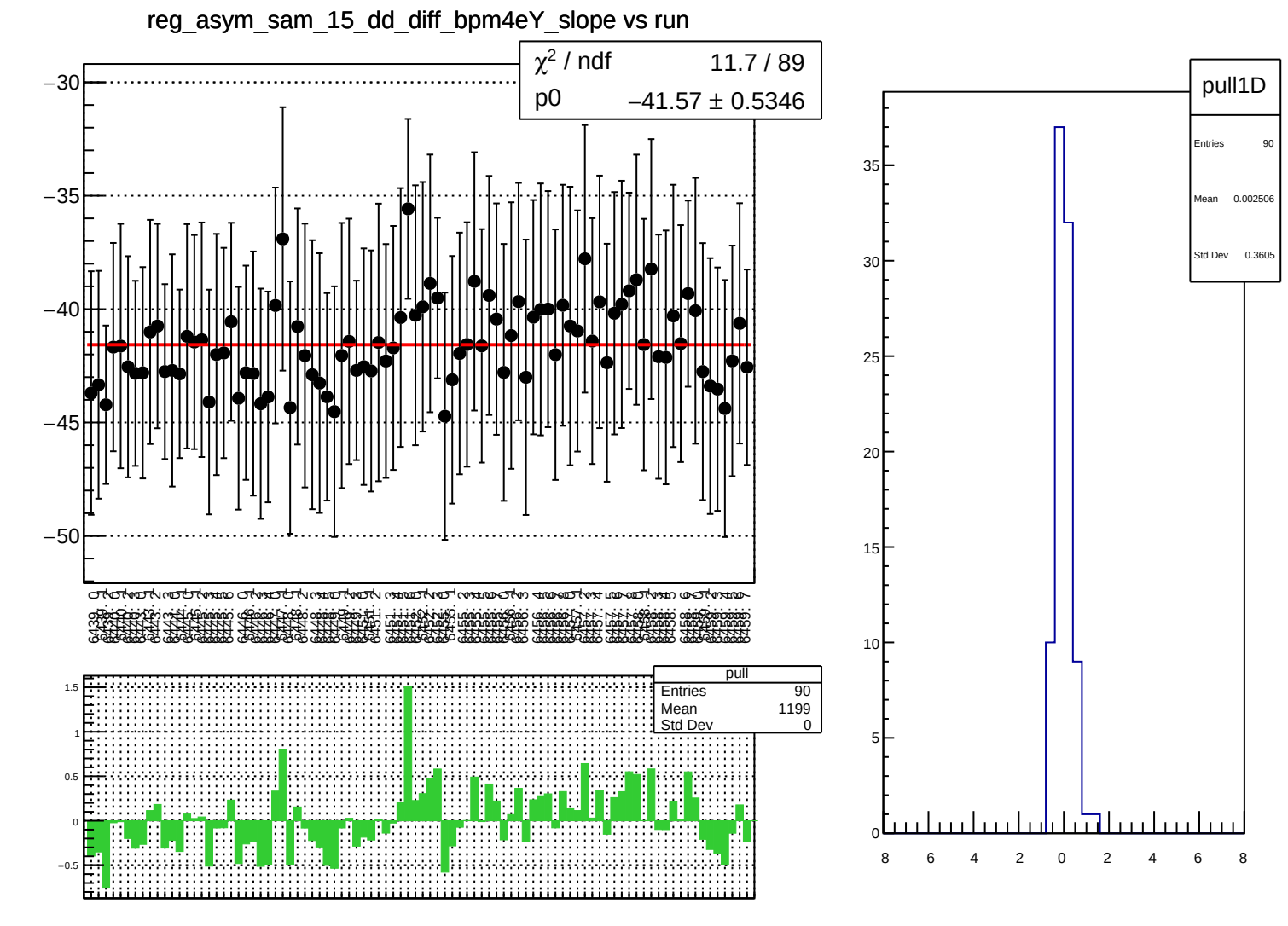

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 43.52 / 89
p0 0.6277 ± 0.4572
pull
Entries 90
Mean 1148
Std Dev 0

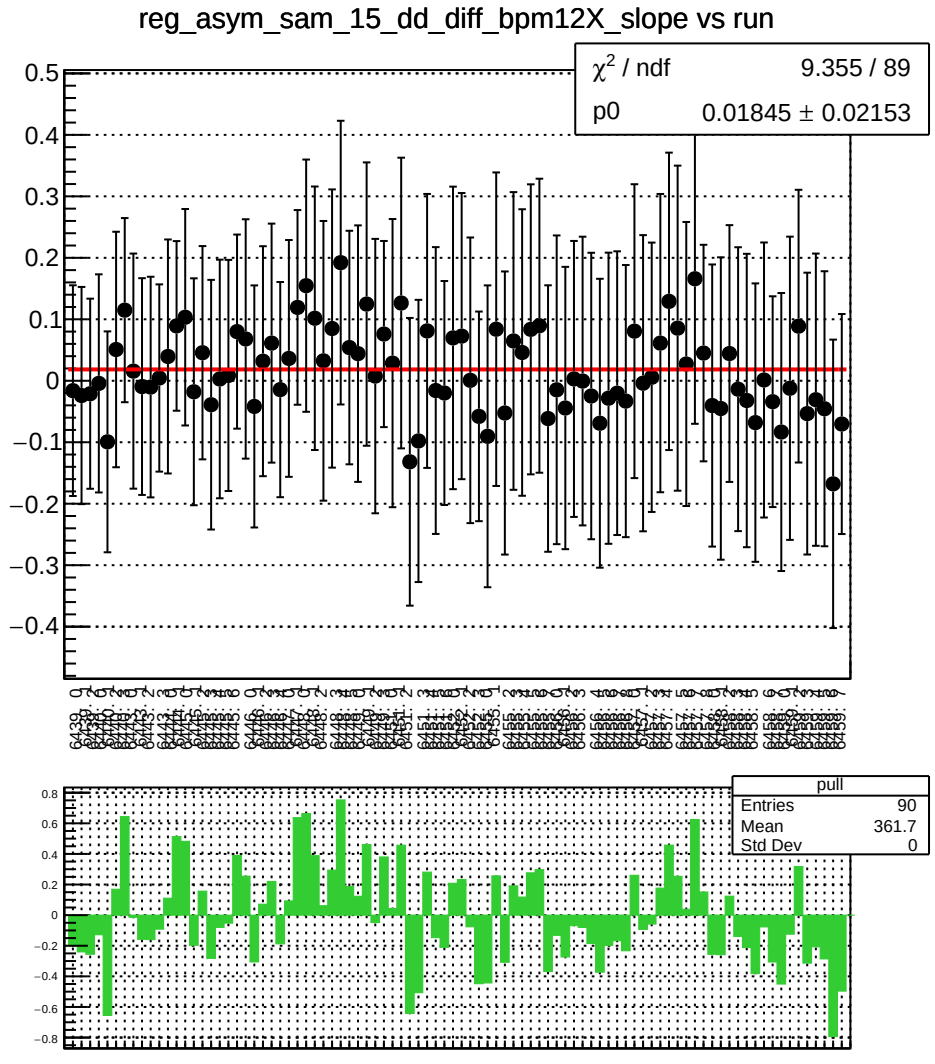

pull1D
Entries 90
Mean 0.01243
Std Dev 0.6953

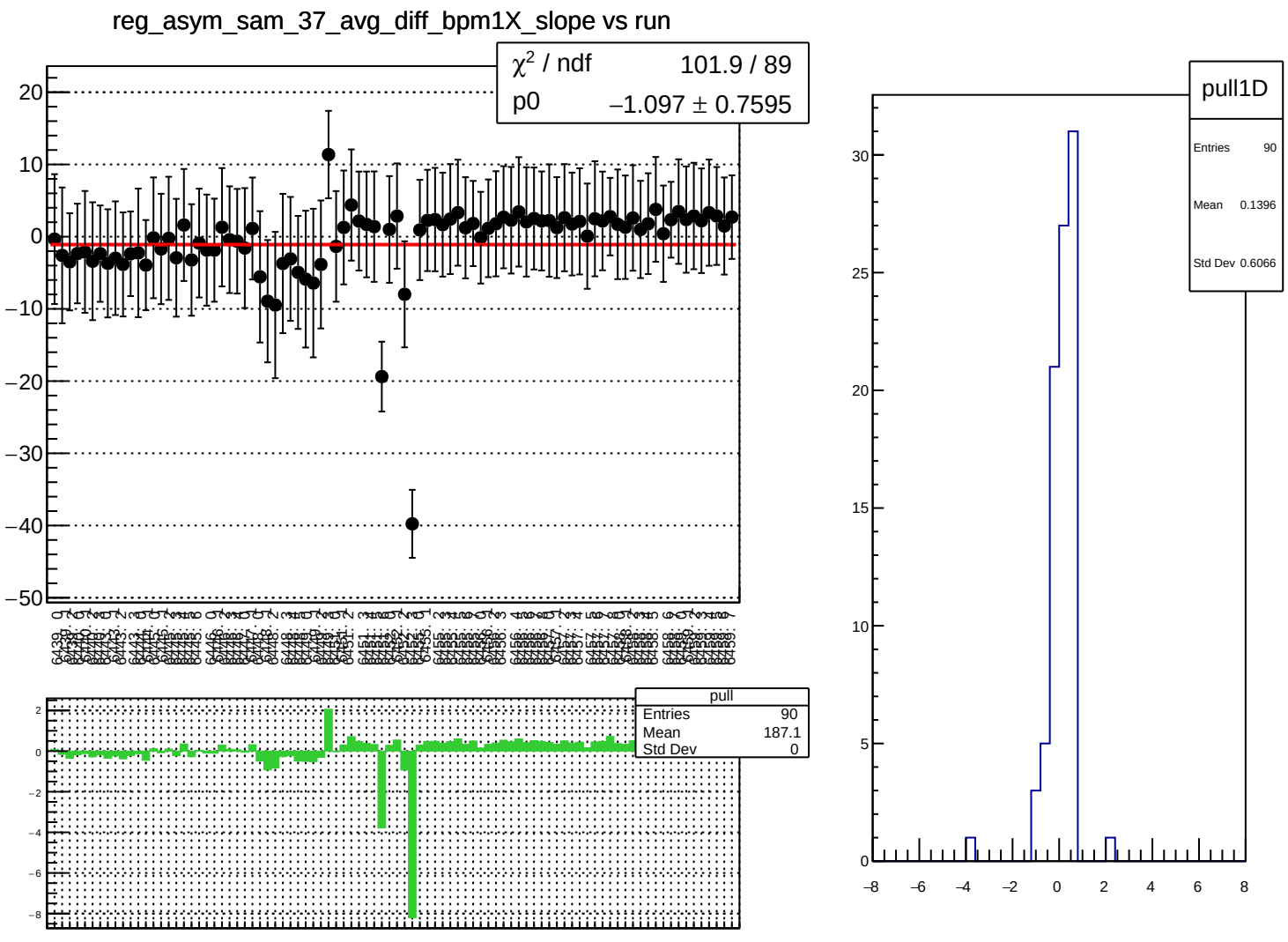

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 25.05 / 89
p0 −56.06 ± 0.534
−50
−55
−60
−65
−70
pull
Entries 90
Mean 3014
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 90
Mean −0.001472
Std Dev 0.5275
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

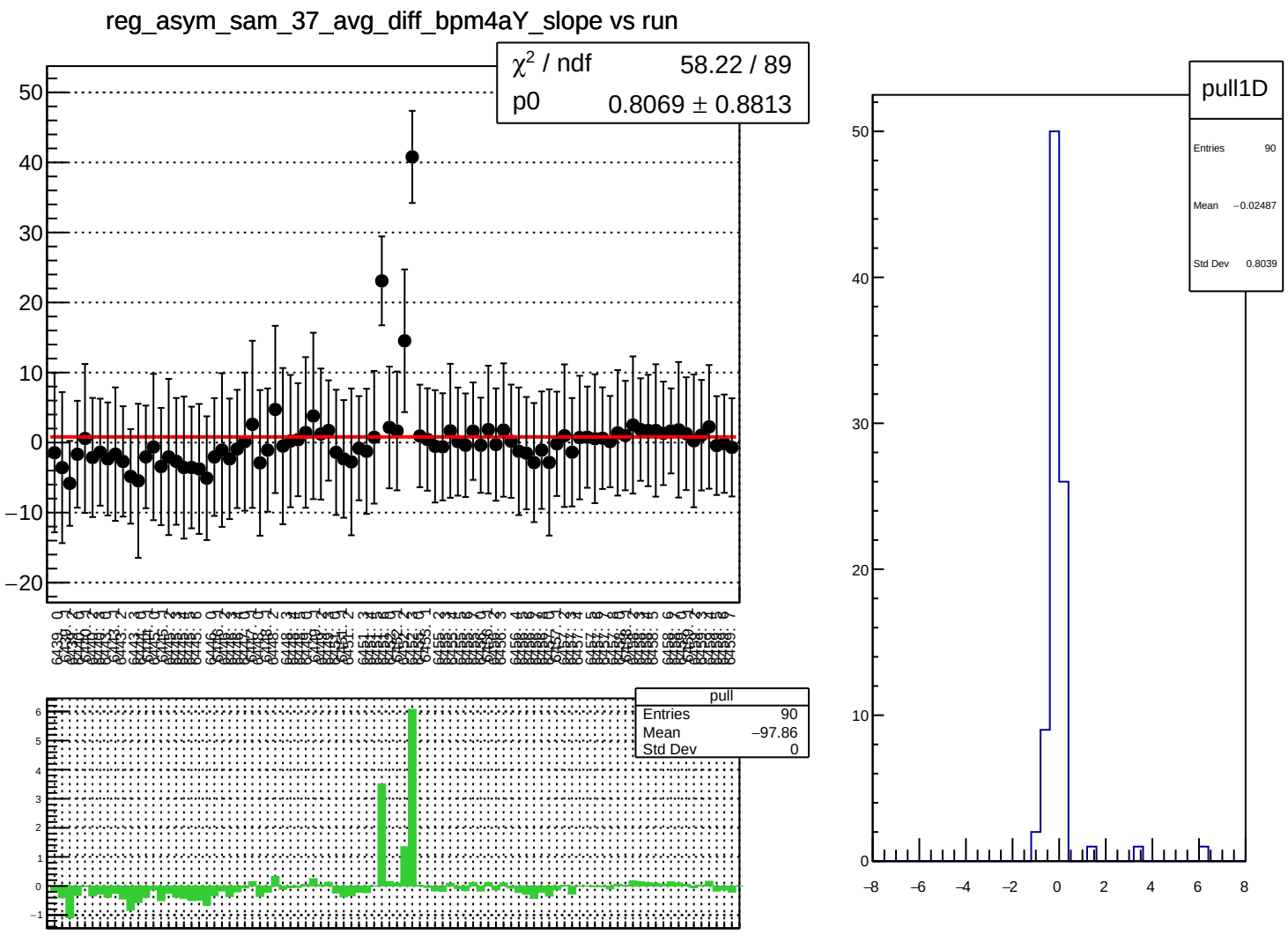

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 40.03 / 89
p0 −6.93 ± 0.4621
pull
Entries 90
Mean −3182
Std Dev 0

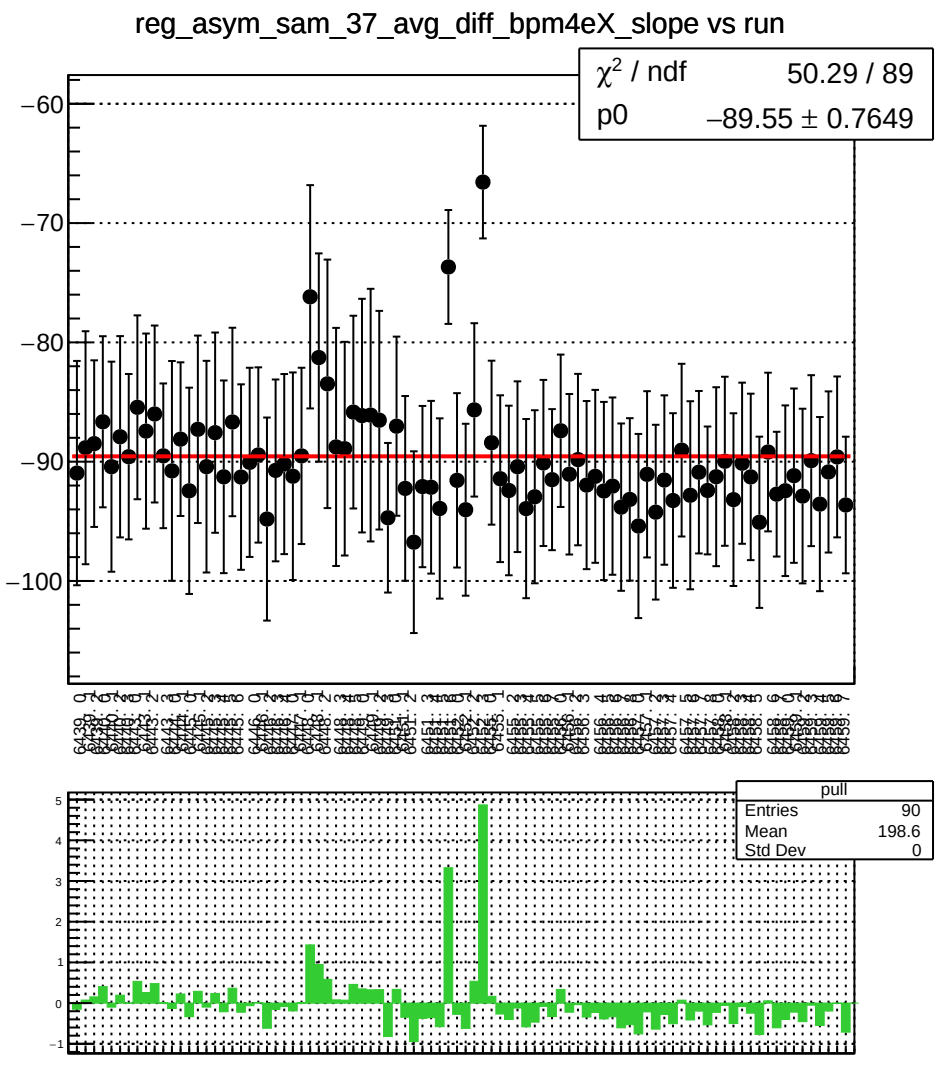

pull1D
Entries 90
Mean 0.003952
Std Dev 0.6669

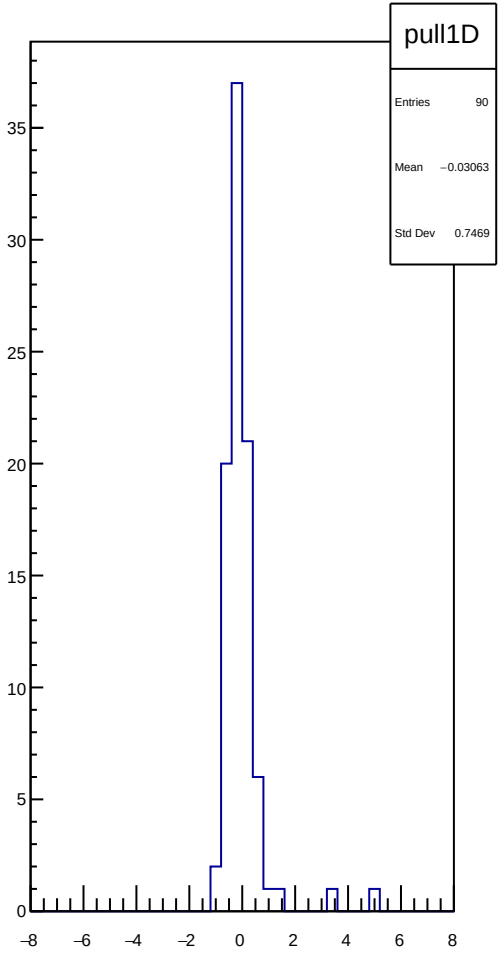

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.7 / 89
p0 −41.57 ± 0.5346
−30
−35
−40
−45
−50
pull
Entries 90
Mean 1199
Std Dev 0
1.5
1
0.5
0
−0.5
pull1D
Entries 90
Mean 0.002506
Std Dev 0.3605
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

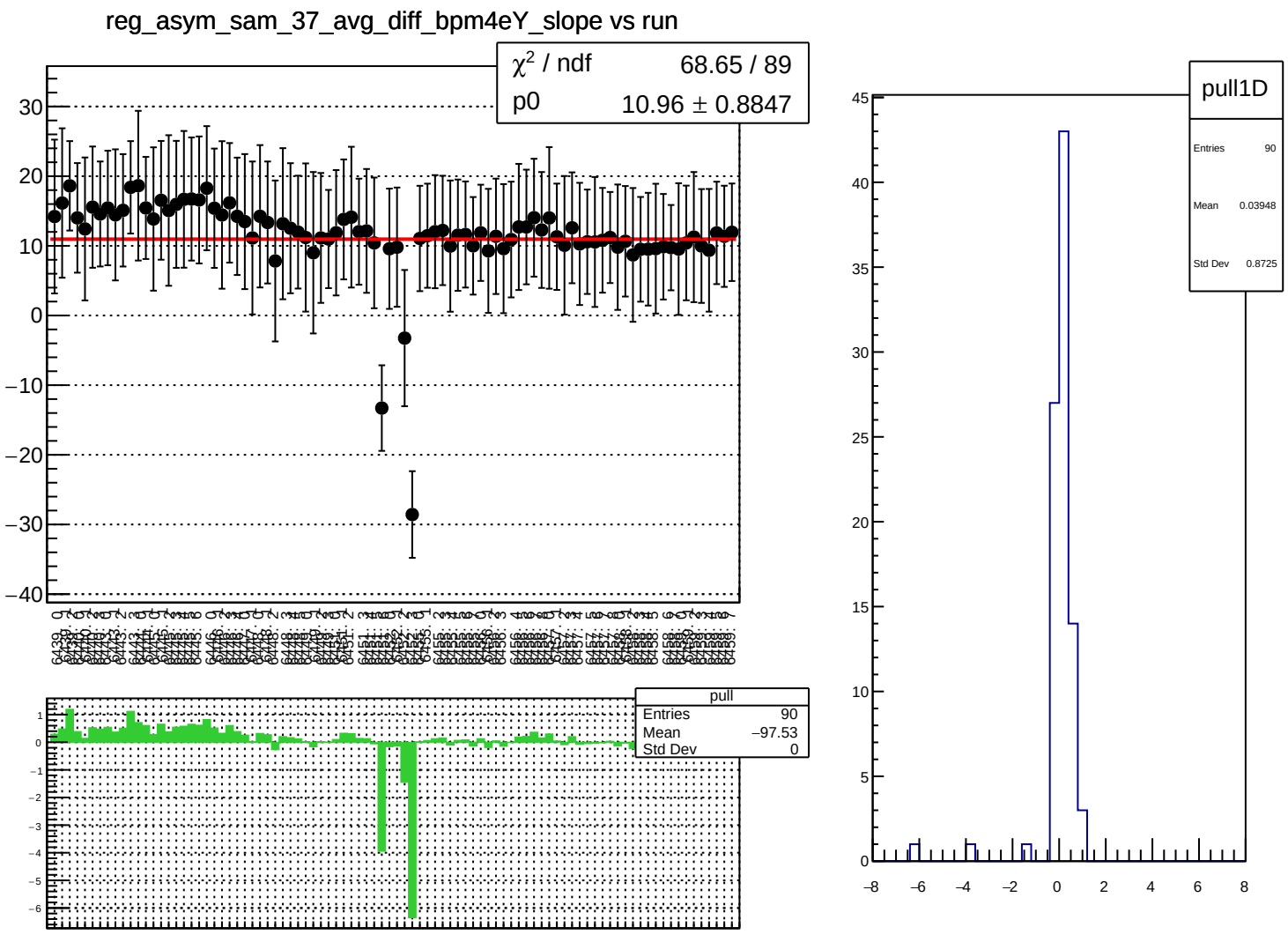

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 9.355 / 89
p0 0.01845 ± 0.02153
pull
Entries 90
Mean 361.7
Std Dev 0
pull1D
Entries 90
Mean −0.006121
Std Dev 0.3223

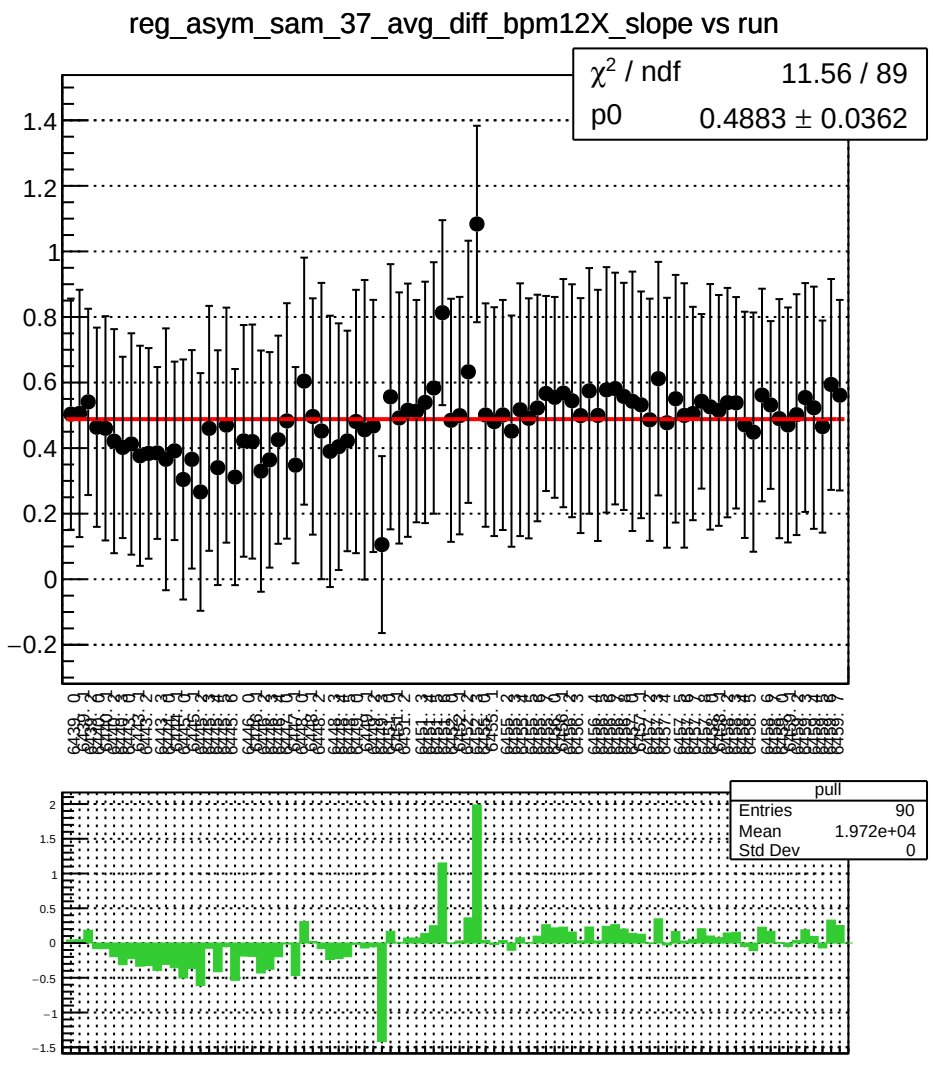

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 101.9 / 89
p0 −1.097 ± 0.7595
pull
Entries 90
Mean 187.1
Std Dev 0
pull1D
Entries 90
Mean 0.1396
Std Dev 0.6066

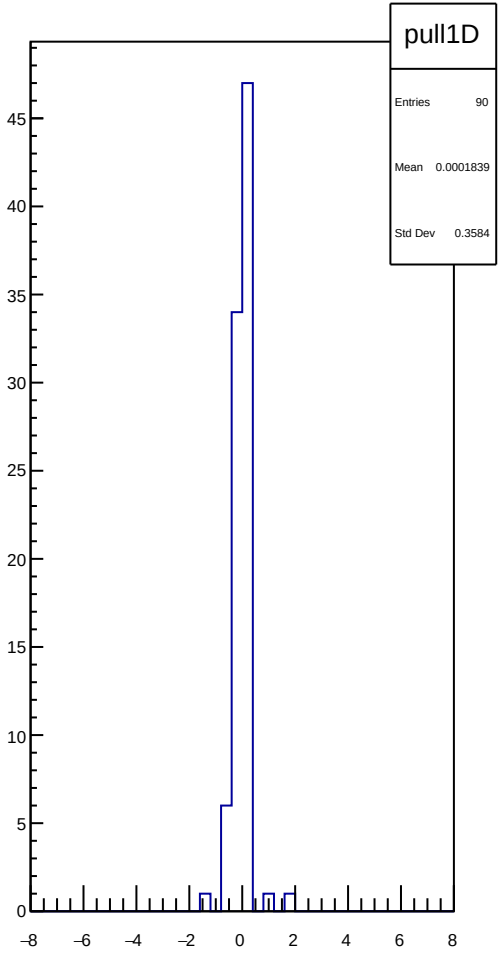

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 58.22 / 89
p0 0.8069 ± 0.8813
pull
Entries 90
Mean −97.86
Std Dev 0
pull1D
Entries 90
Mean −0.02487
Std Dev 0.8039

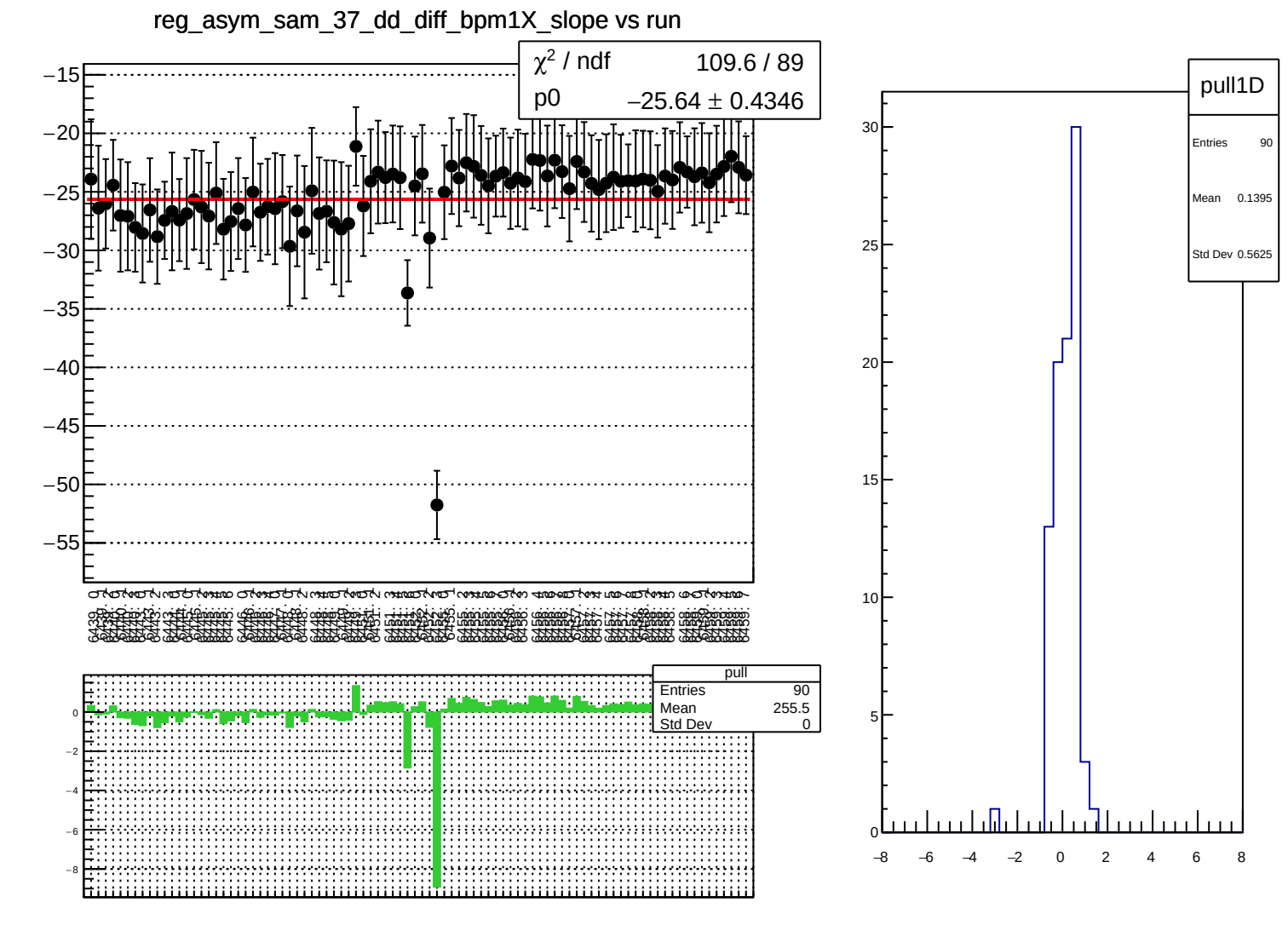

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 50.29 / 89
p0 −89.55 ± 0.7649
−60
−70
−80
−90
−100
pull
Entries 90
Mean 198.6
Std Dev 0
5
4
3
2
1
0
−1

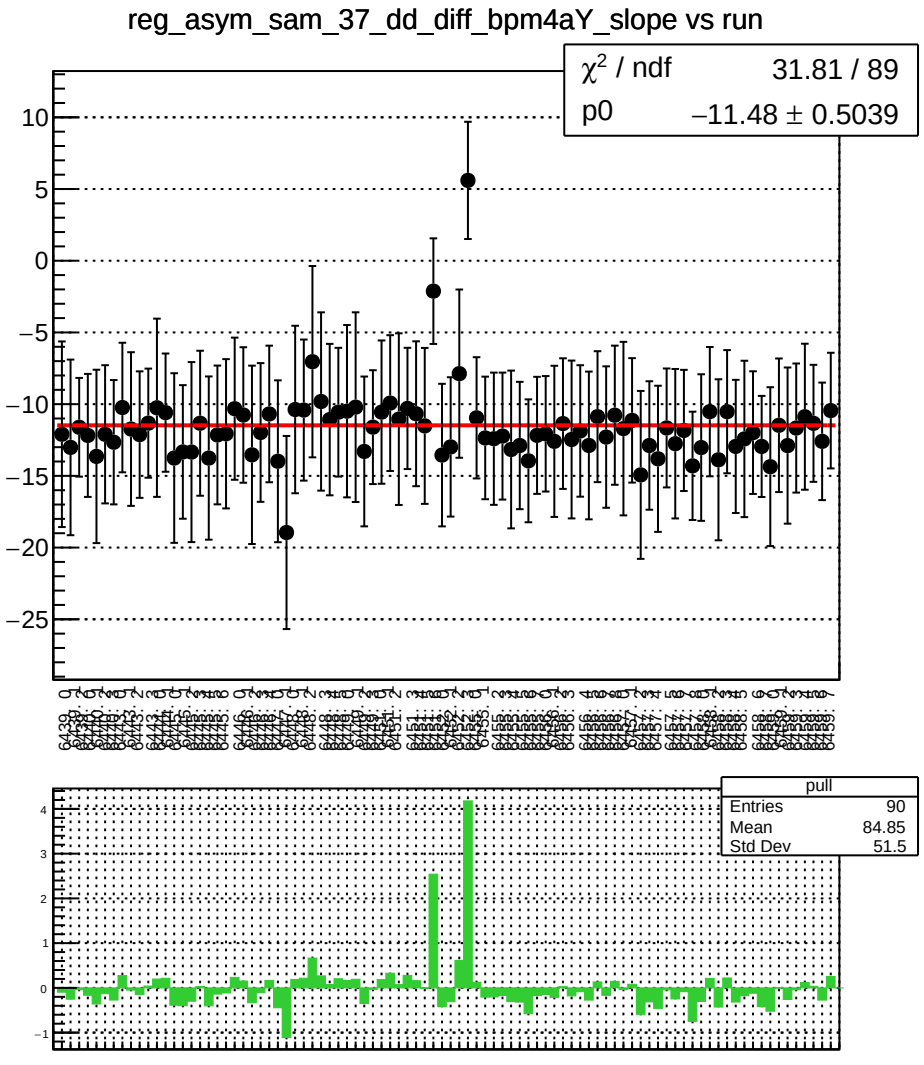

pull1D
Entries 90
Mean −0.03063
Std Dev 0.7469
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

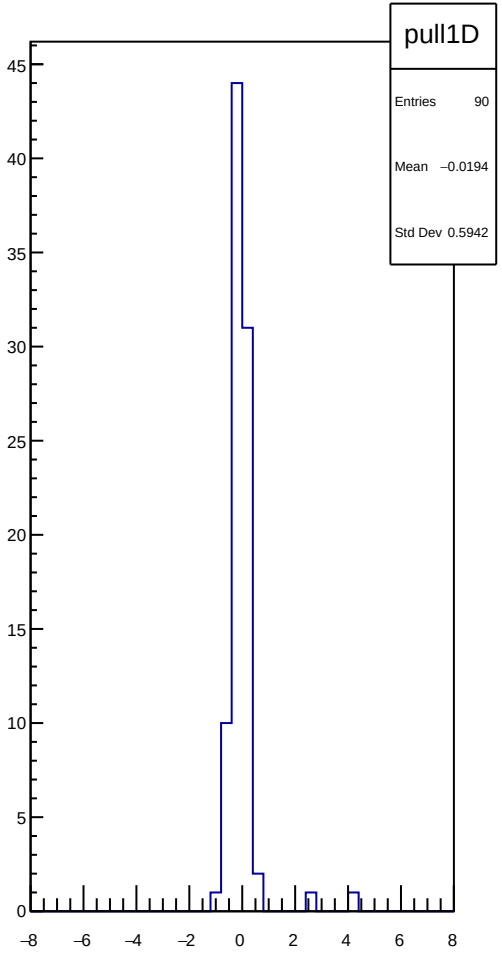

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 68.65 / 89
p0 10.96 ± 0.8847
pull
Entries 90
Mean −97.53
Std Dev 0
pull1D
Entries 90
Mean 0.03948
Std Dev 0.8725

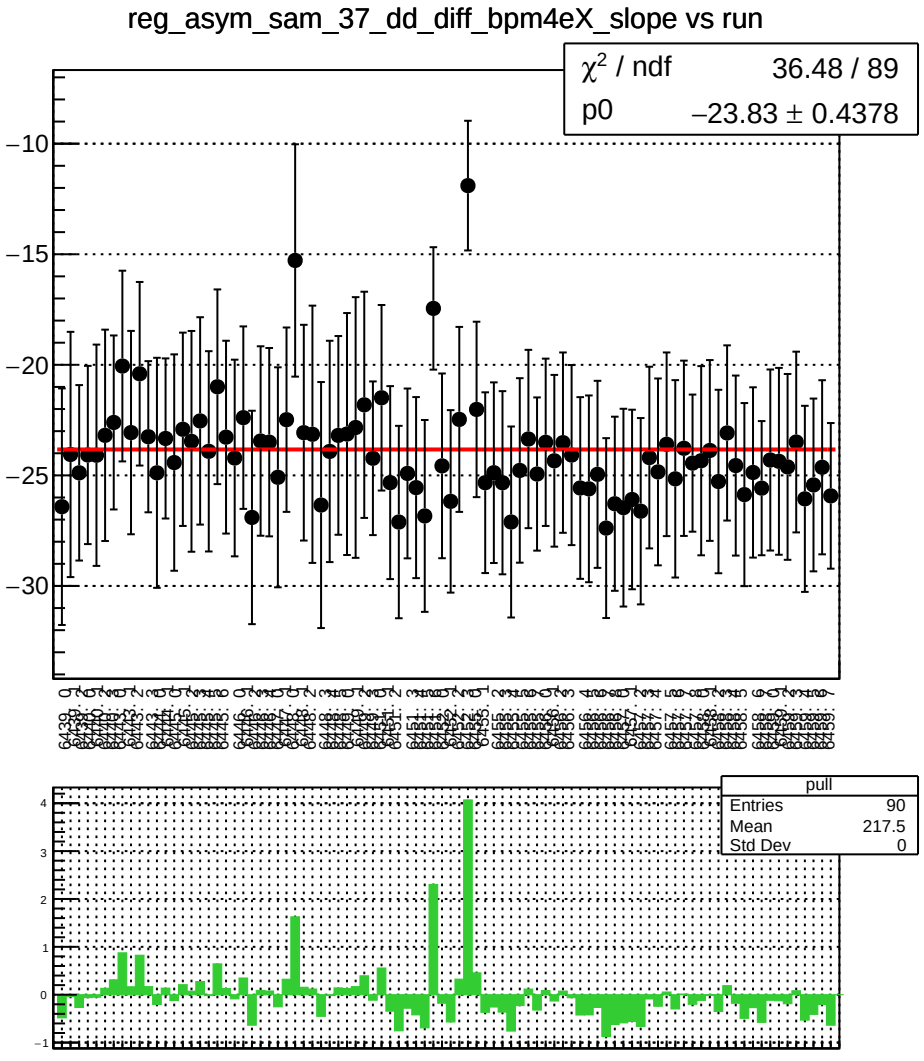

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 11.56 / 89
p0 0.4883 ± 0.0362
pull
Entries 90
Mean 1.972e+04
Std Dev 0

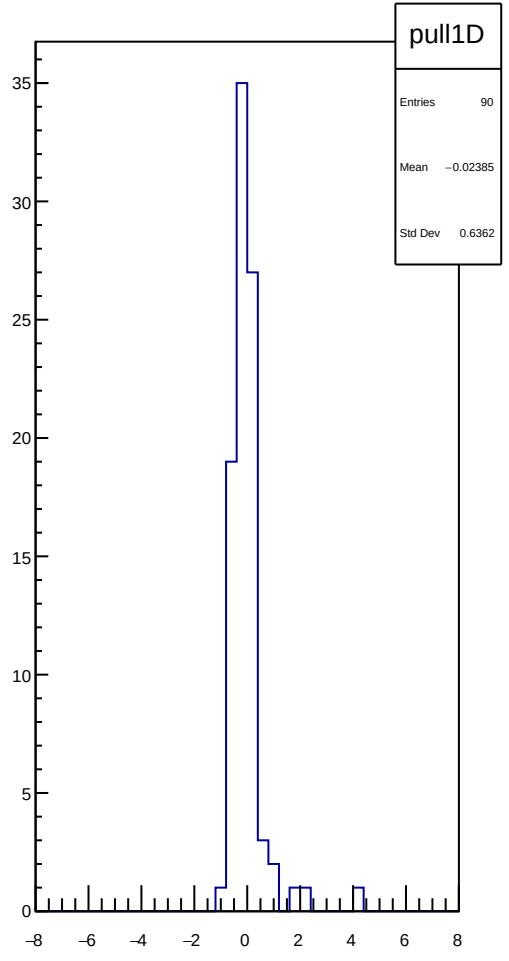

pull1D
Entries 90
Mean 0.0001839
Std Dev 0.3584

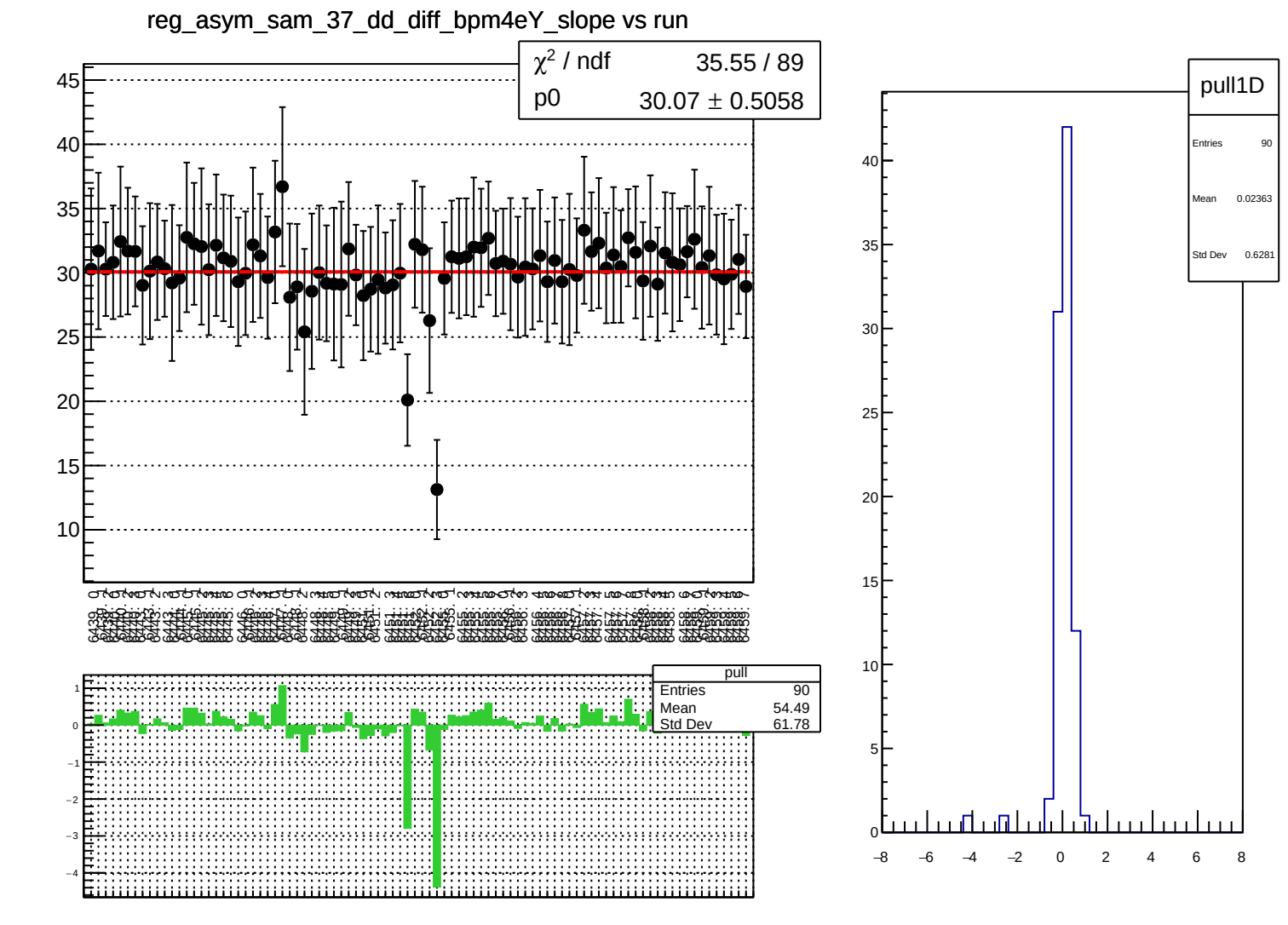

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 109.6 / 89
p0 −25.64 ± 0.4346
pull
Entries 90
Mean 255.5
Std Dev 0
pull1D
Entries 90
Mean 0.1395
Std Dev 0.5625

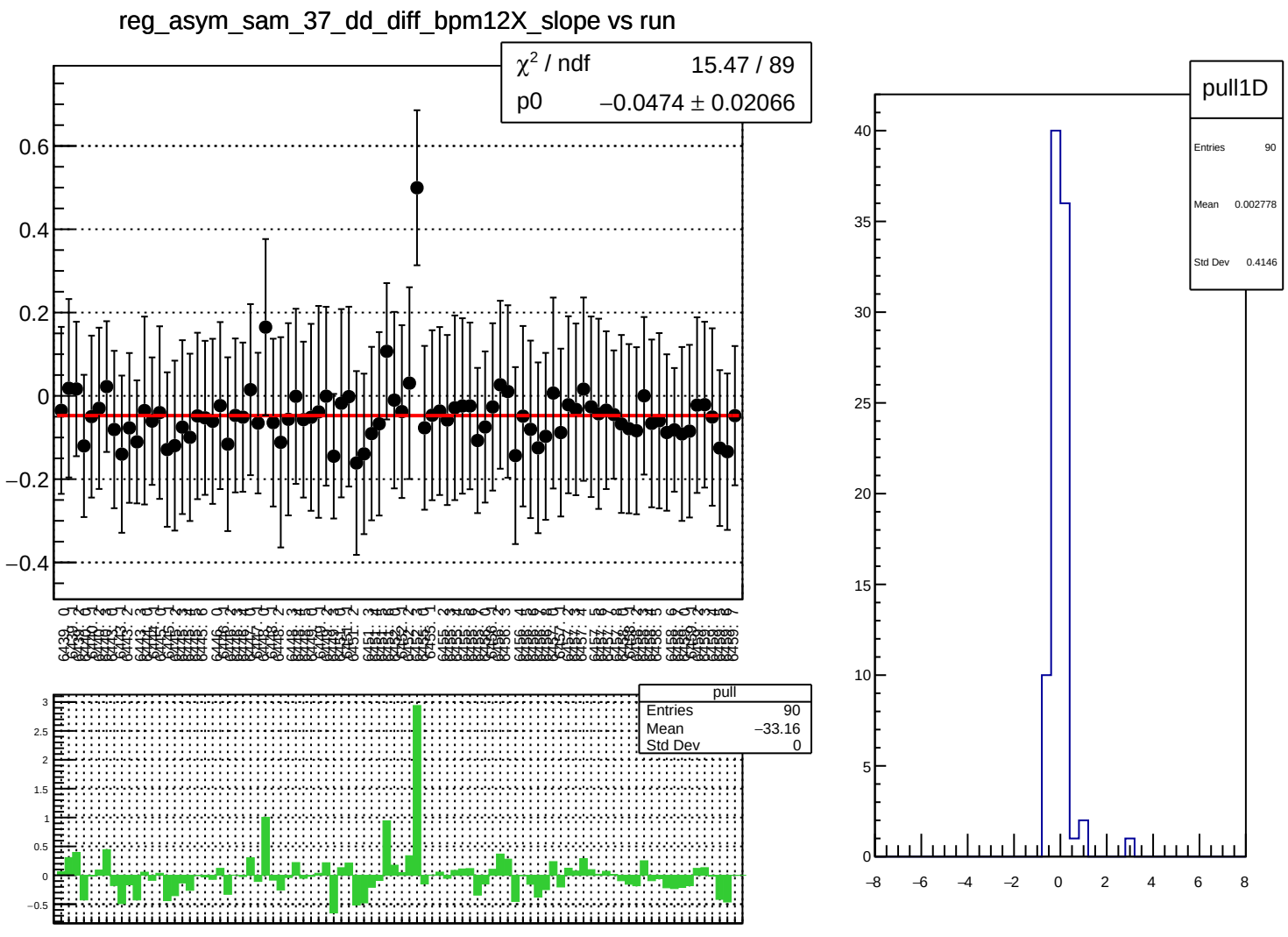

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 31.81 / 89
p0 −11.48 ± 0.5039
pull
Entries 90
Mean 84.85
Std Dev 51.5

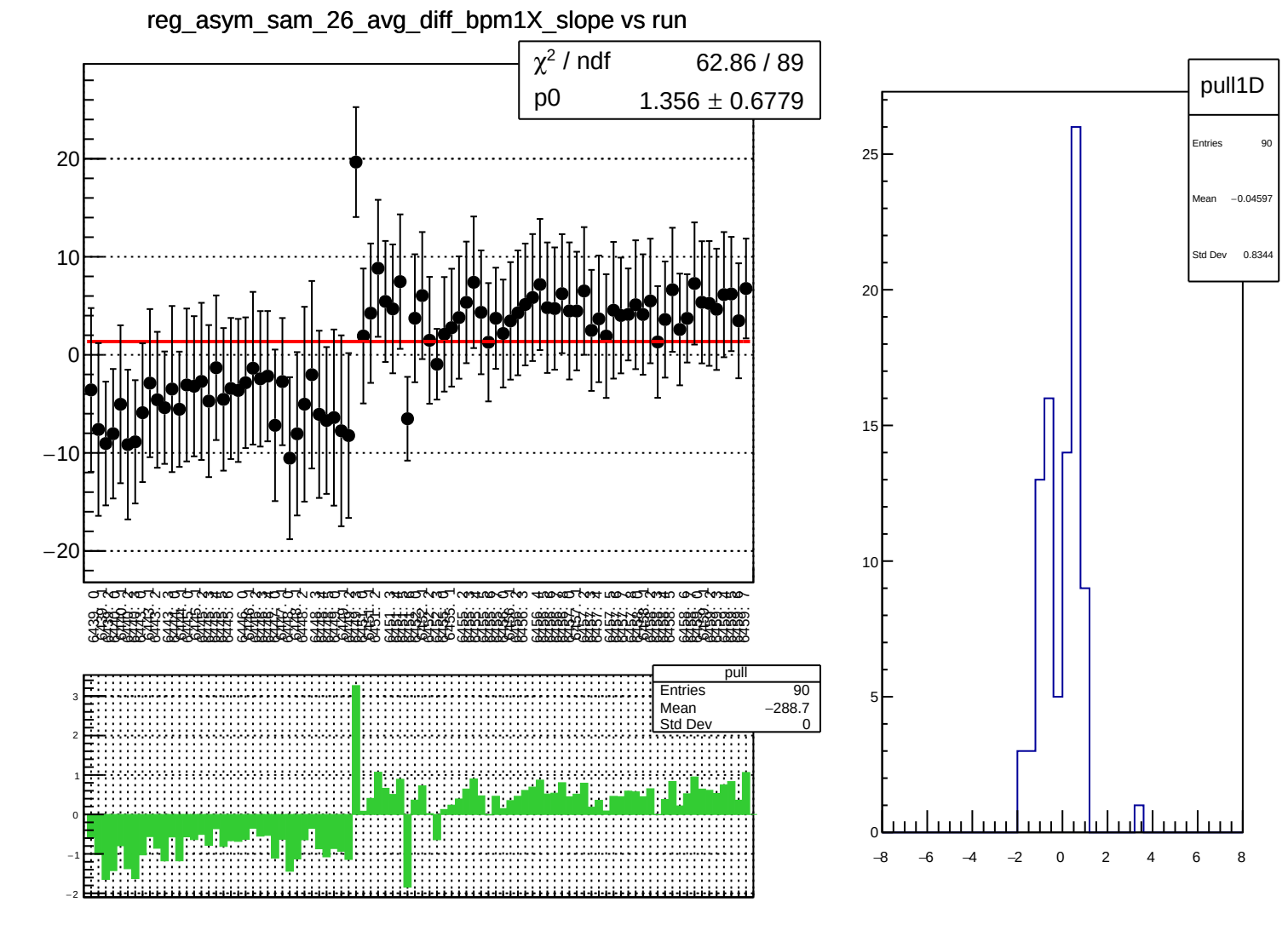

pull1D
Entries 90
Mean −0.0194
Std Dev 0.5942

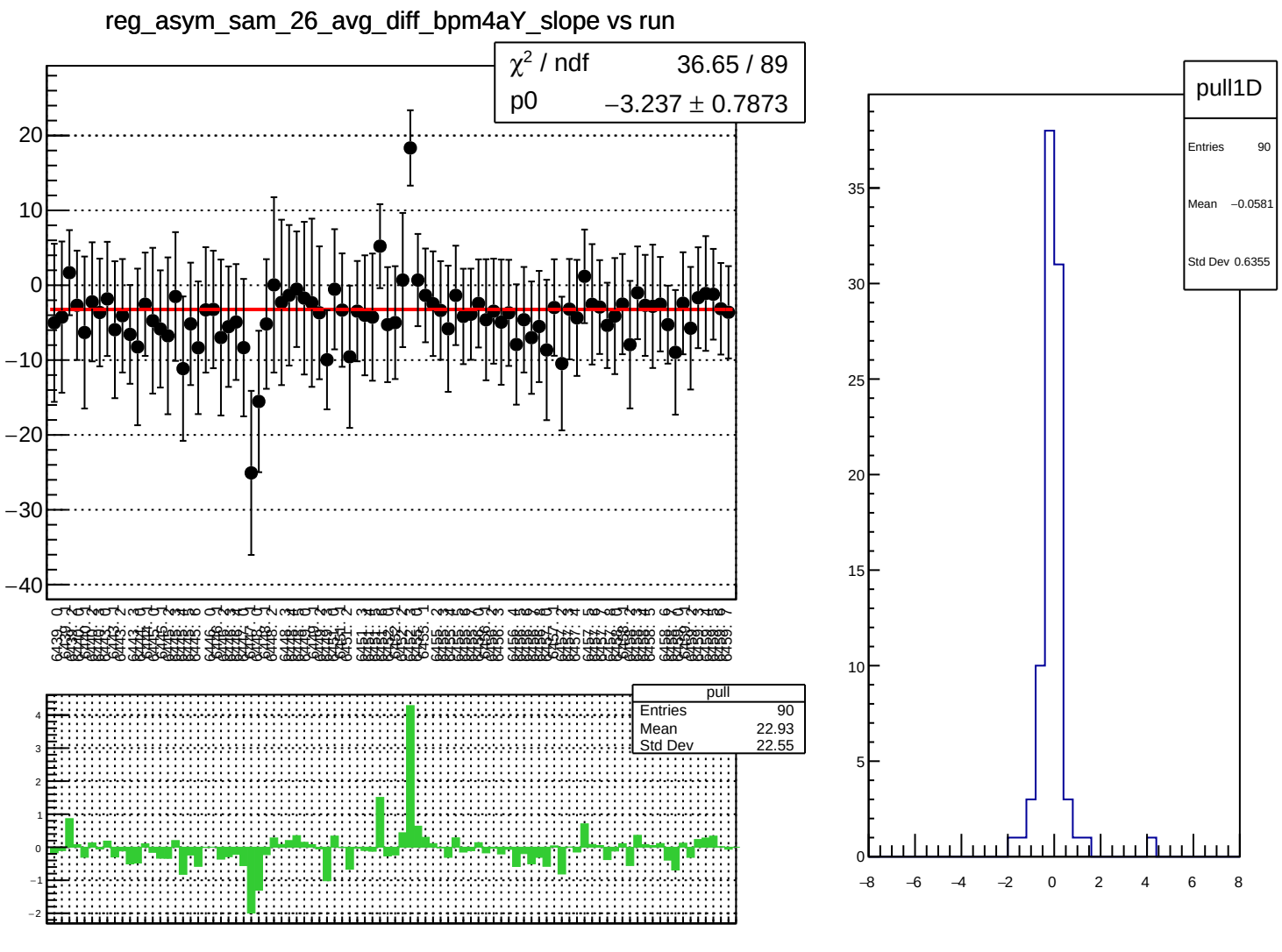

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 36.48 / 89
p0 −23.83 ± 0.4378
pull
Entries 90
Mean 217.5
Std Dev 0

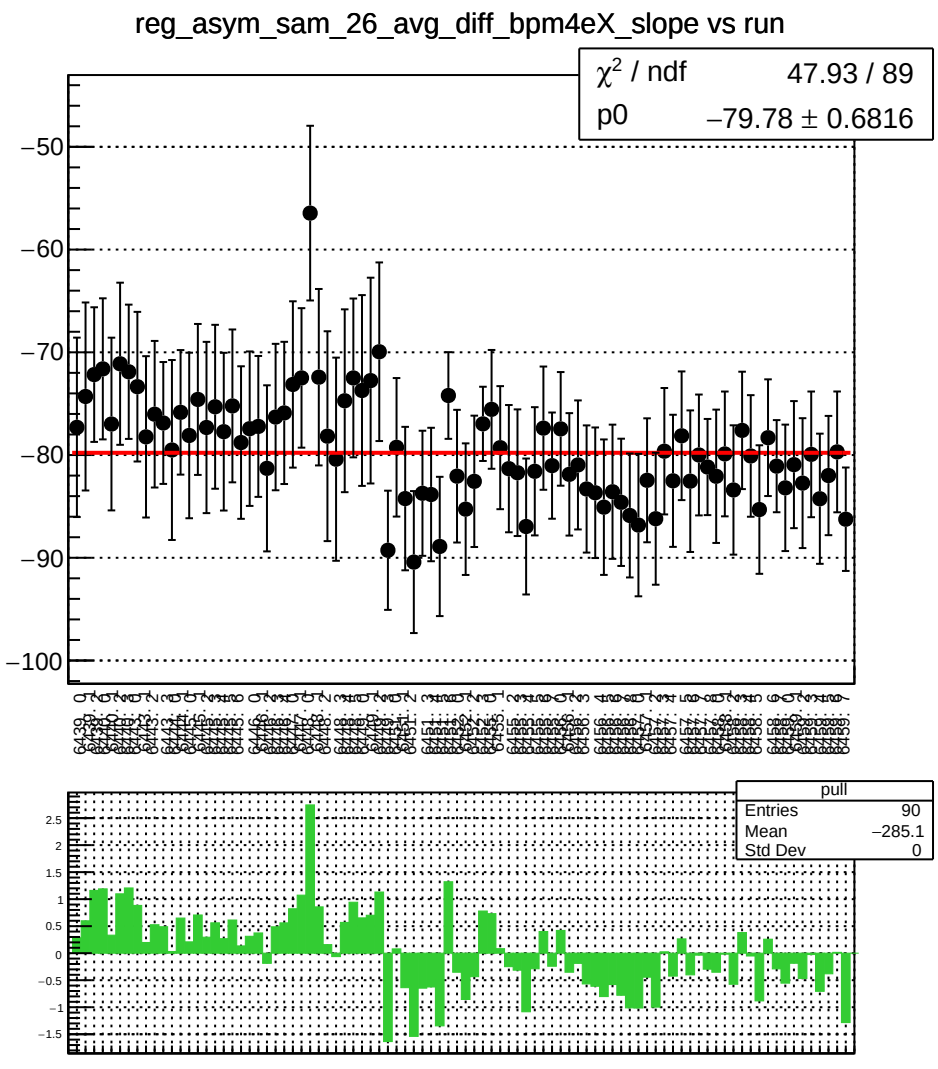

pull1D
Entries 90
Mean −0.02385
Std Dev 0.6362

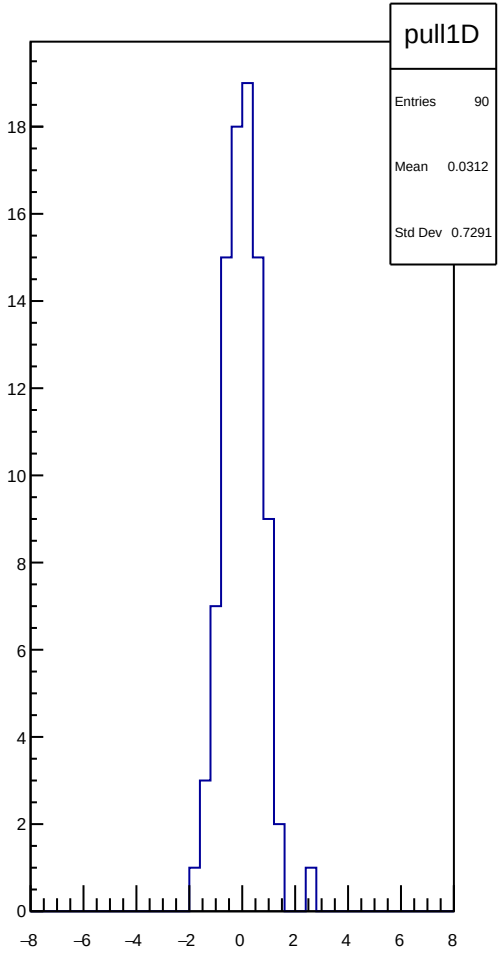

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 35.55 / 89
p0 30.07 ± 0.5058
pull
Entries 90
Mean 54.49
Std Dev 61.78
pull1D
Entries 90
Mean 0.02363
Std Dev 0.6281

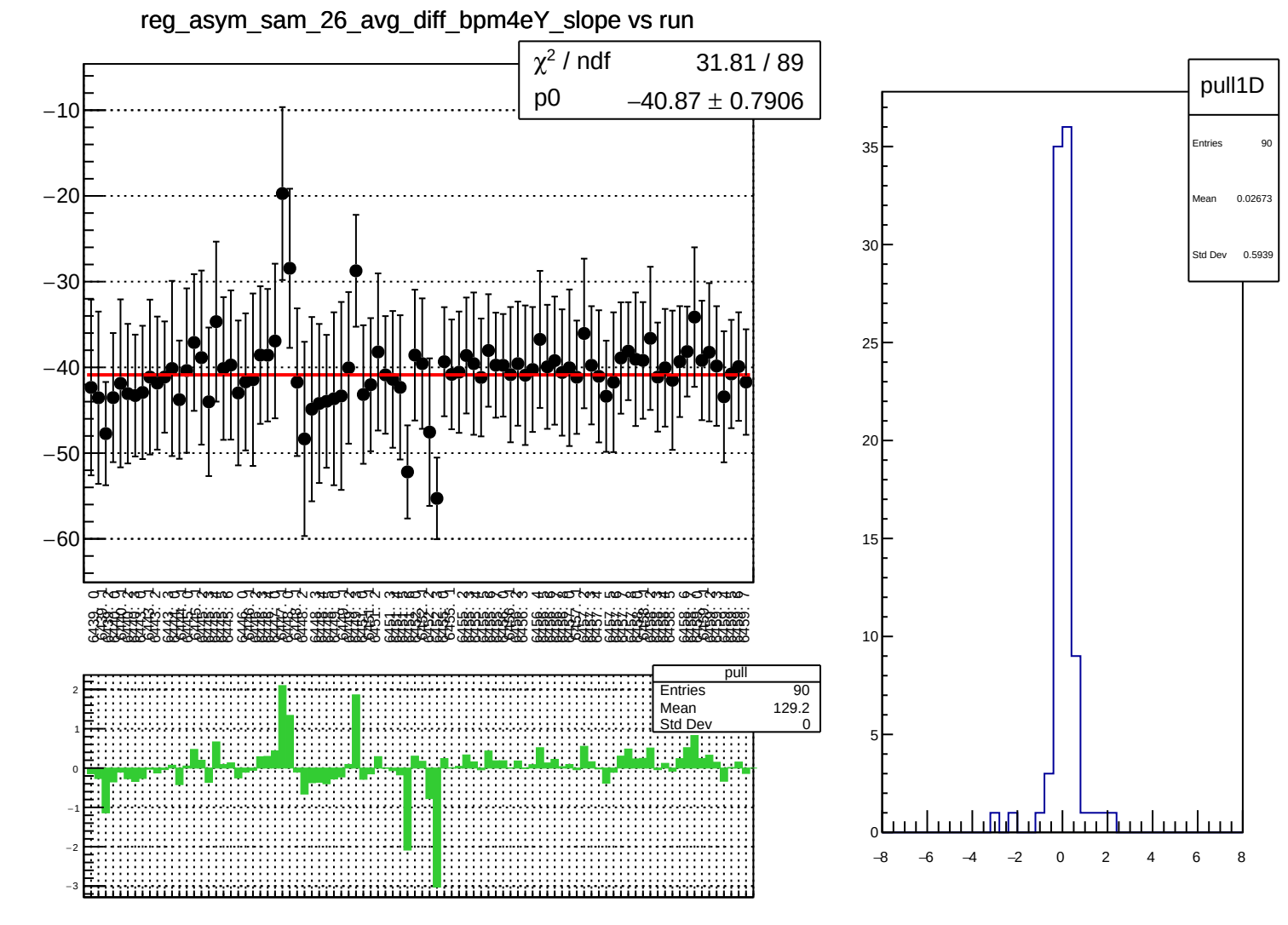

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 15.47 / 89
p0 −0.0474 ± 0.02066
pull
Entries 90
Mean −33.16
Std Dev 0
pull1D
Entries 90
Mean 0.002778
Std Dev 0.4146

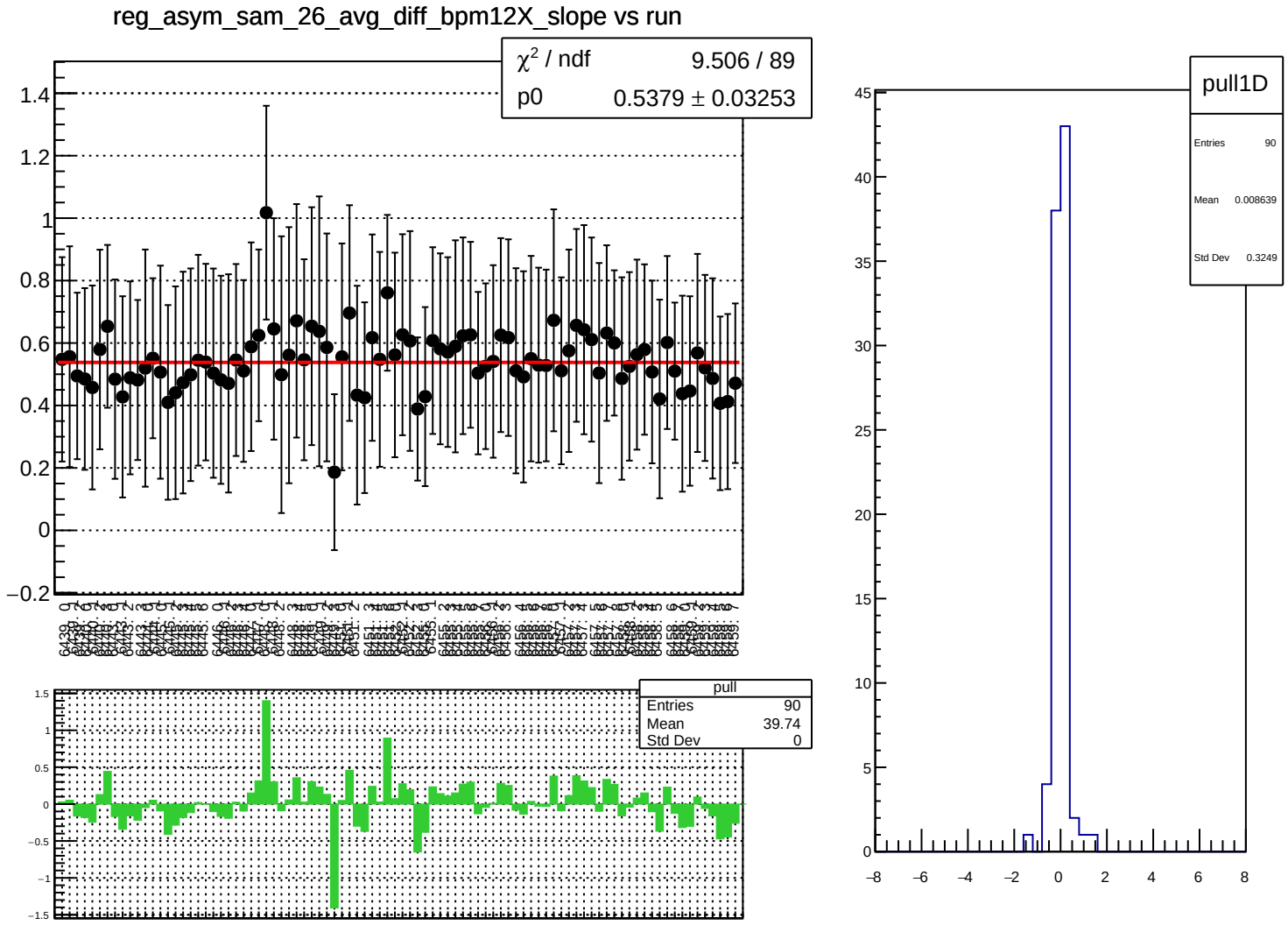

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 62.86 / 89
p0 1.356 ± 0.6779
pull
Entries 90
Mean −288.7
Std Dev 0
pull1D
Entries 90
Mean −0.04597
Std Dev 0.8344

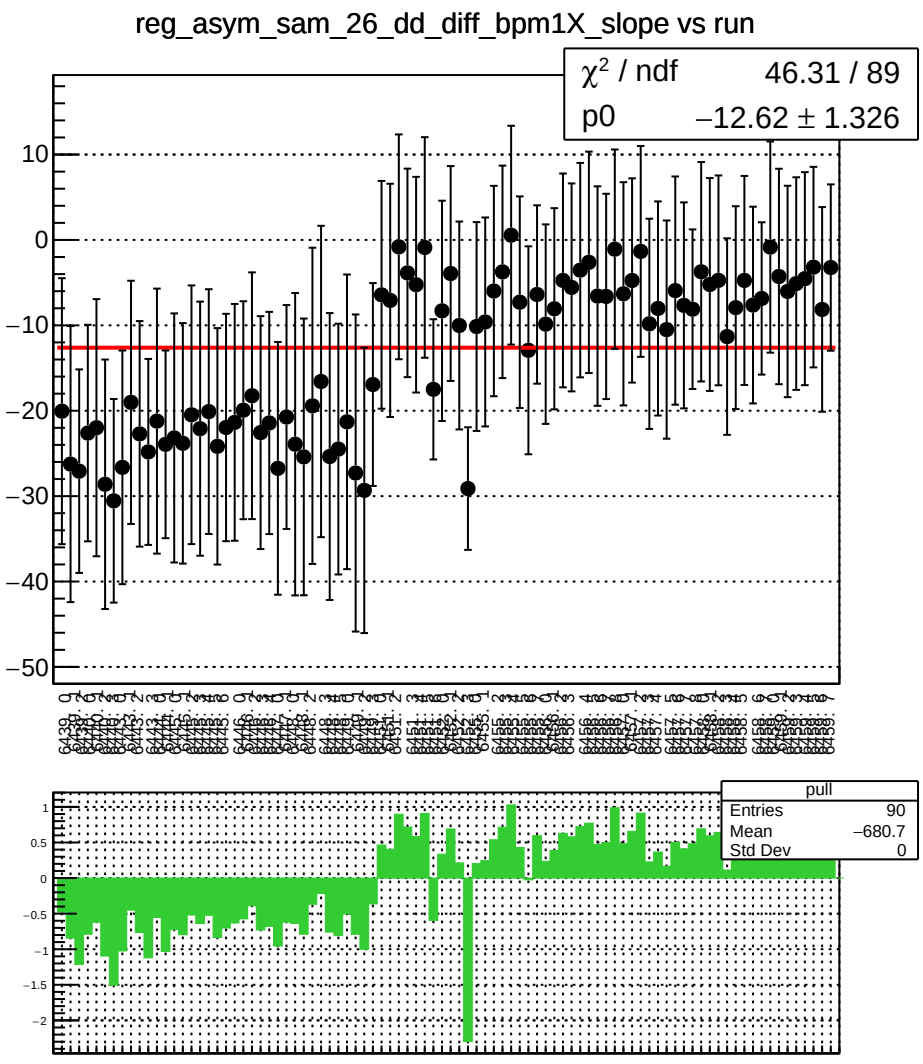

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 36.65 / 89
p0 −3.237 ± 0.7873
pull
Entries 90
Mean 22.93
Std Dev 22.55
pull1D
Entries 90
Mean −0.0581
Std Dev 0.6355

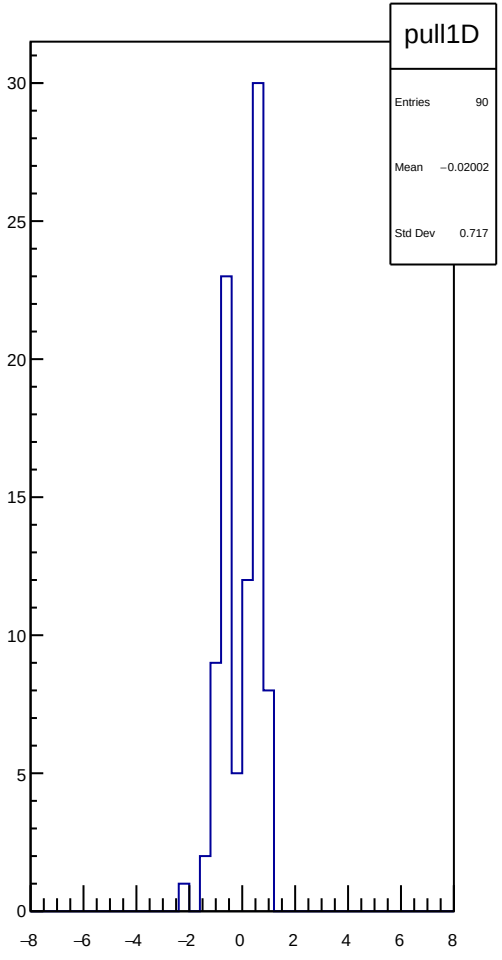

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 47.93 / 89
p0 −79.78 ± 0.6816
pull
Entries 90
Mean −285.1
Std Dev 0

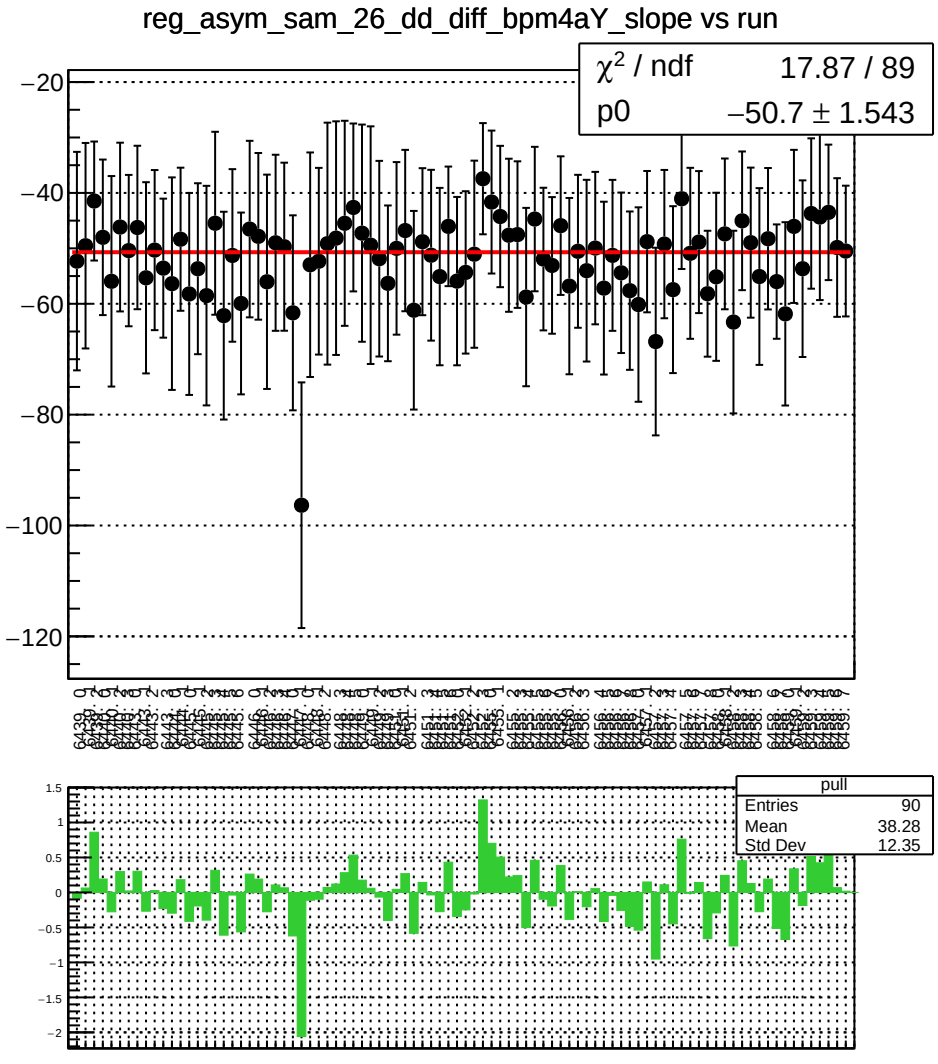

pull1D
Entries 90
Mean 0.0312
Std Dev 0.7291

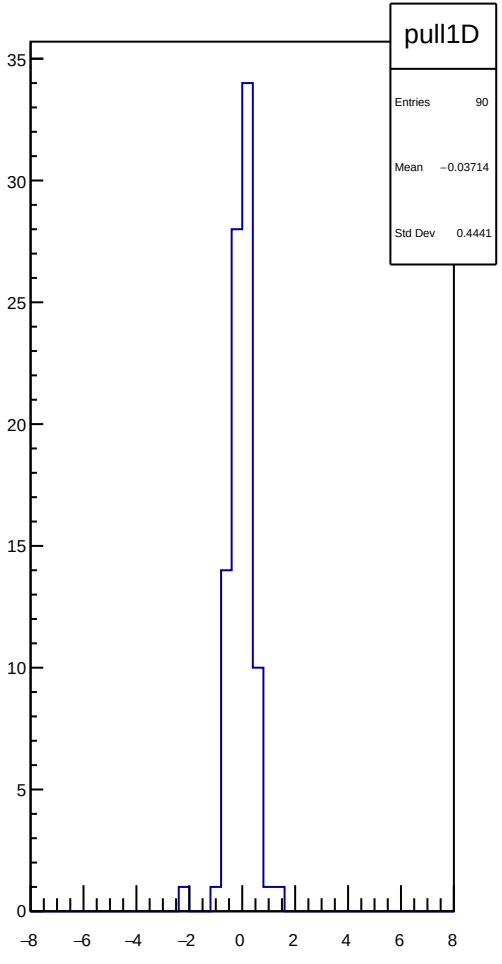

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 31.81 / 89
p0 −40.87 ± 0.7906
pull
Entries 90
Mean 129.2
Std Dev 0
pull1D
Entries 90
Mean 0.02673
Std Dev 0.5939

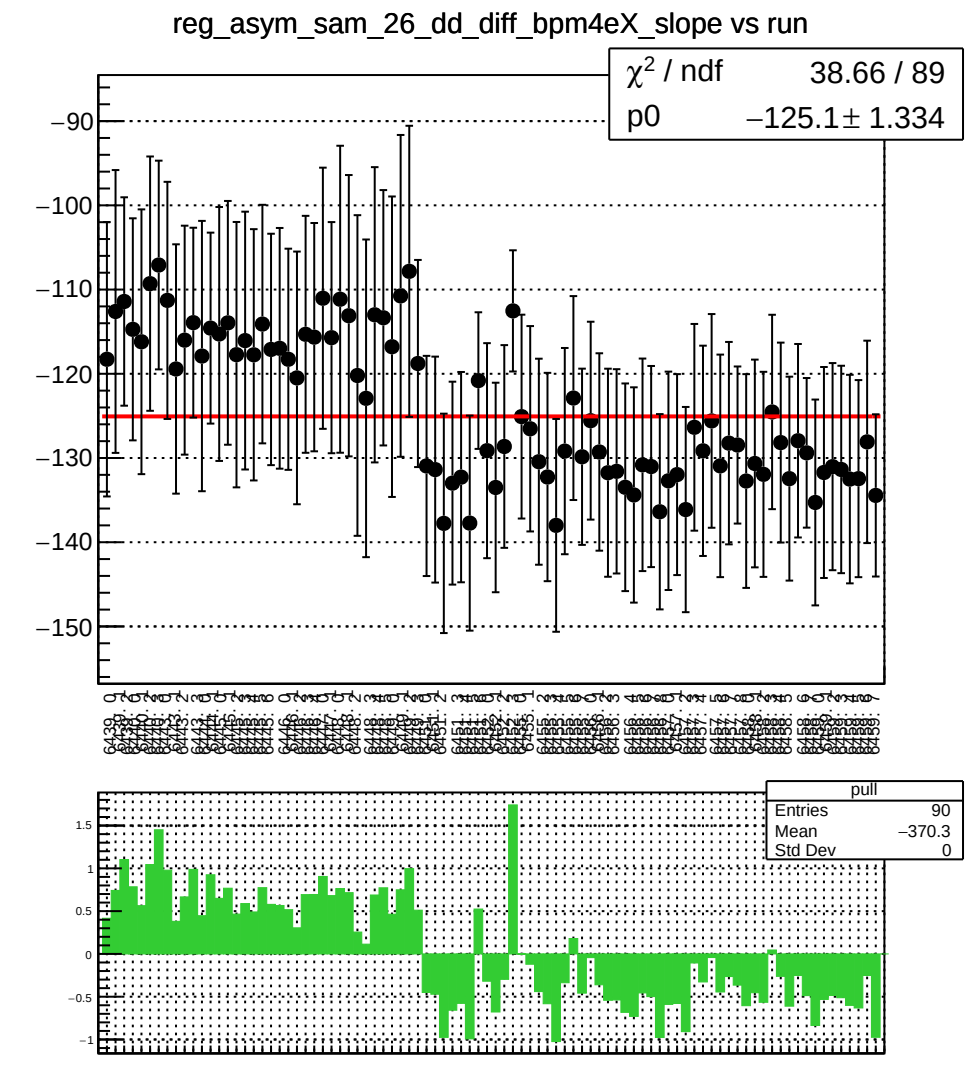

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 9.506 / 89
p0 0.5379 ± 0.03253
pull
Entries 90
Mean 39.74
Std Dev 0
pull1D
Entries 90
Mean 0.008639
Std Dev 0.3249

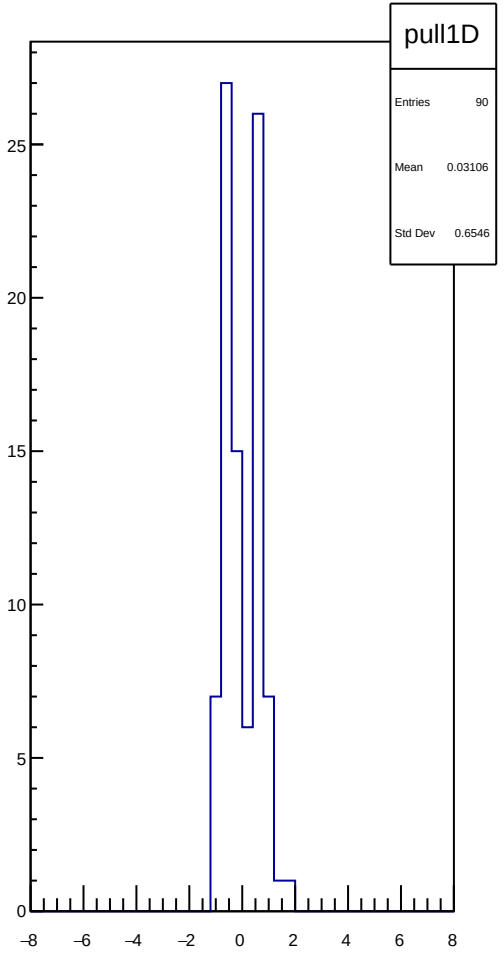

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 46.31 / 89
p0 −12.62 ± 1.326
pull
Entries 90
Mean −680.7
Std Dev 0

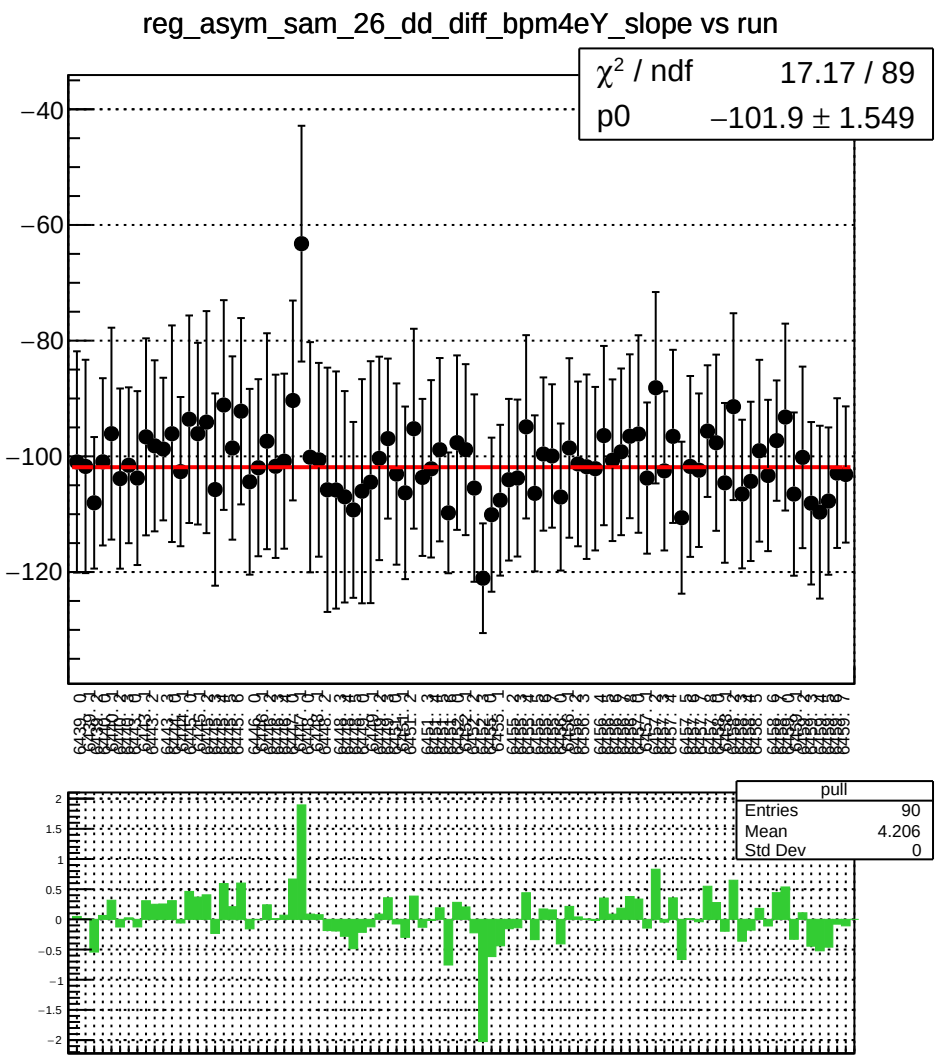

pull1D
Entries 90
Mean −0.02002
Std Dev 0.717

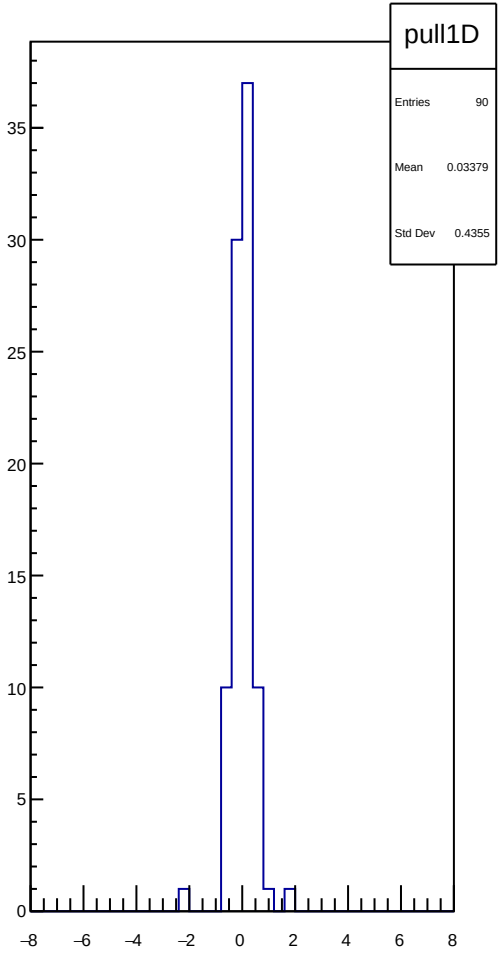

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 17.87 / 89
p0 −50.7 ± 1.543
pull
Entries 90
Mean 38.28
Std Dev 12.35

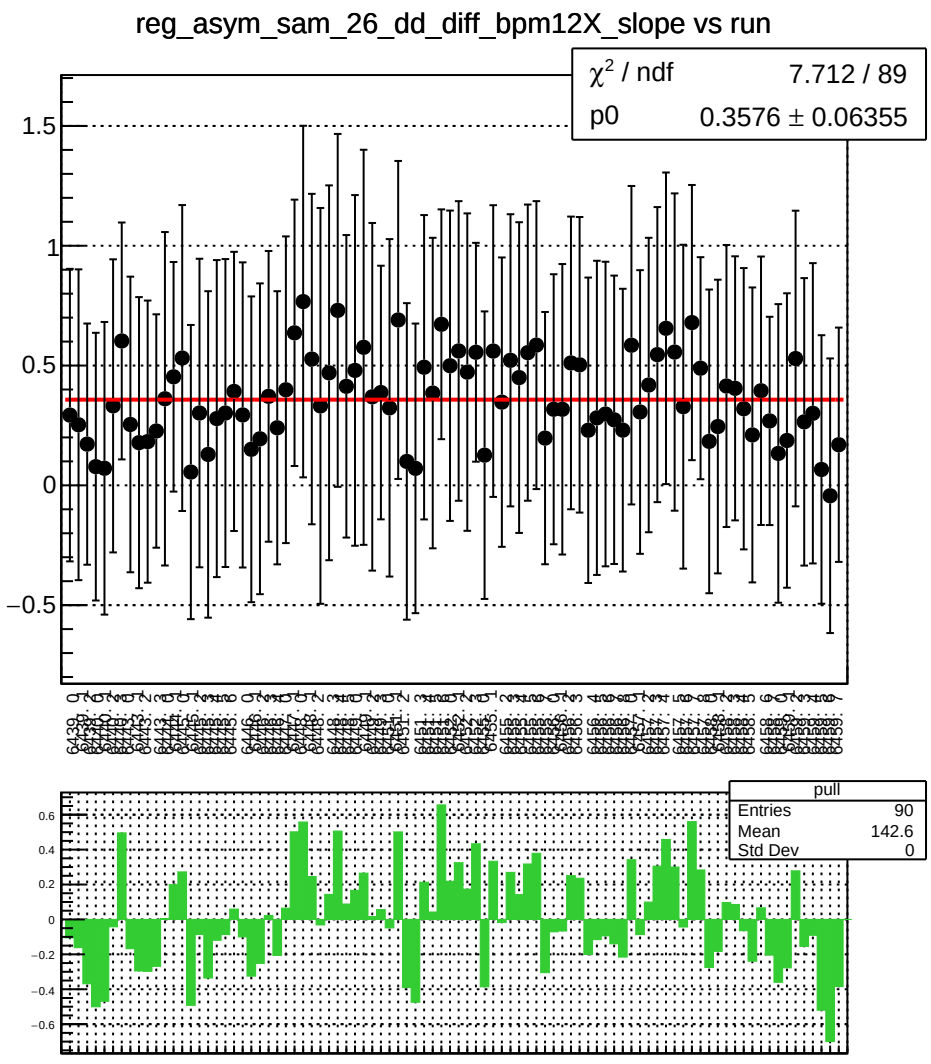

pull1D
Entries 90
Mean −0.03714
Std Dev 0.4441

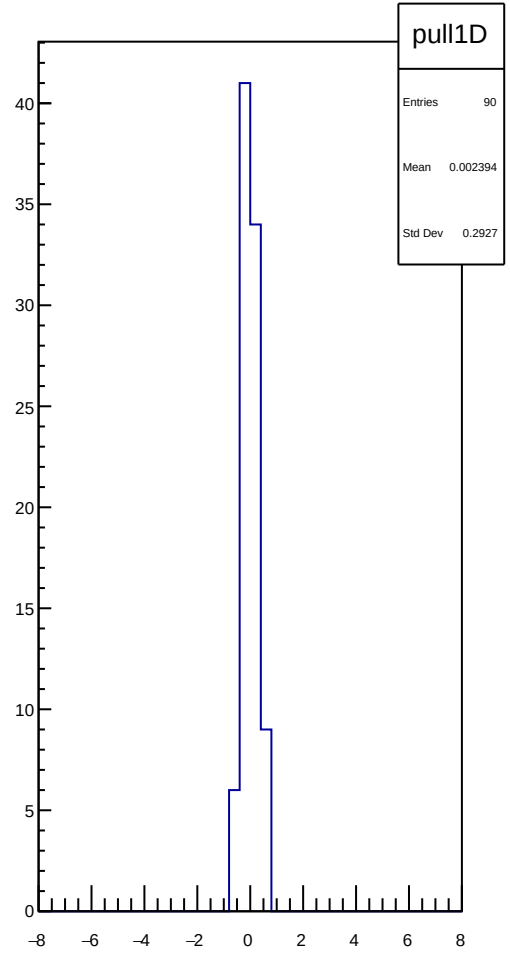

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 38.66 / 89
p0 −125.1± 1.334
−90
−100
−110
−120
−130
−140
−150
pull
Entries 90
Mean −370.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1

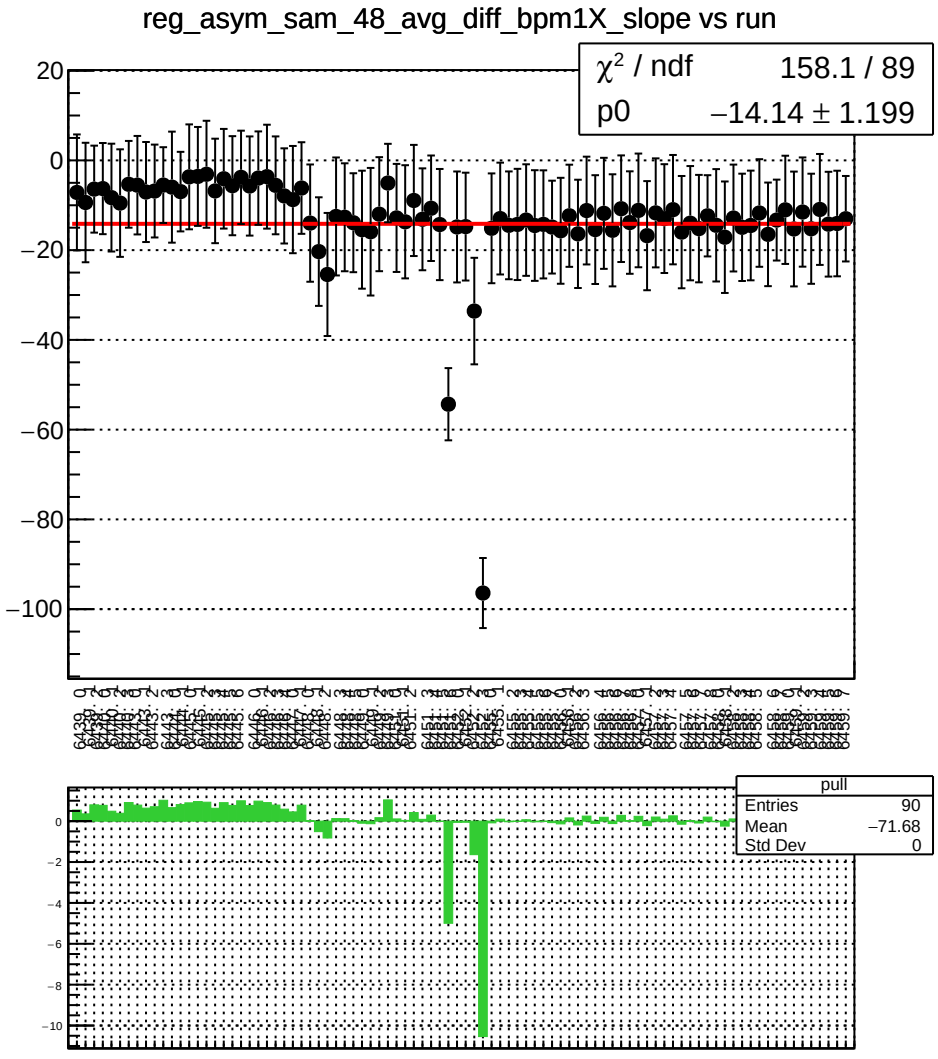

pull1D
Entries 90
Mean 0.03106
Std Dev 0.6546
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

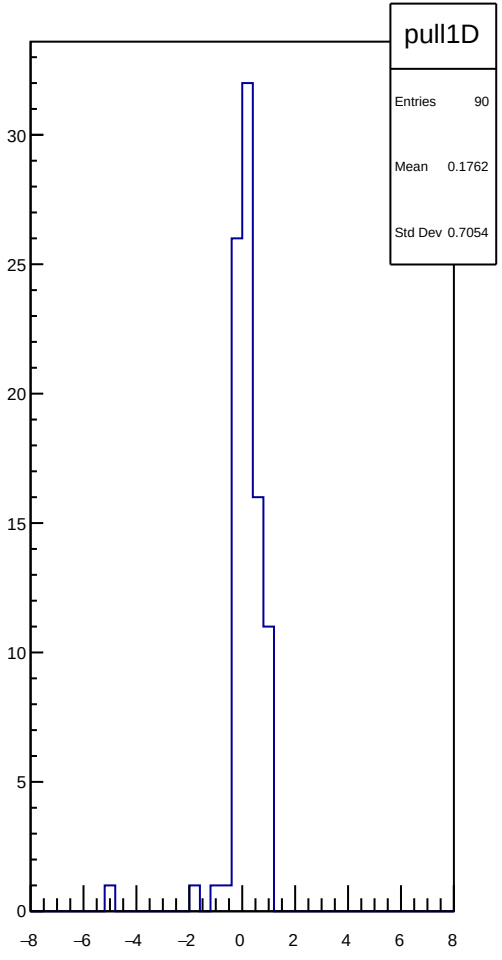

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 17.17 / 89
p0 −101.9 ± 1.549
−40
−60
−80
−100
−120
pull
Entries 90
Mean 4.206
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

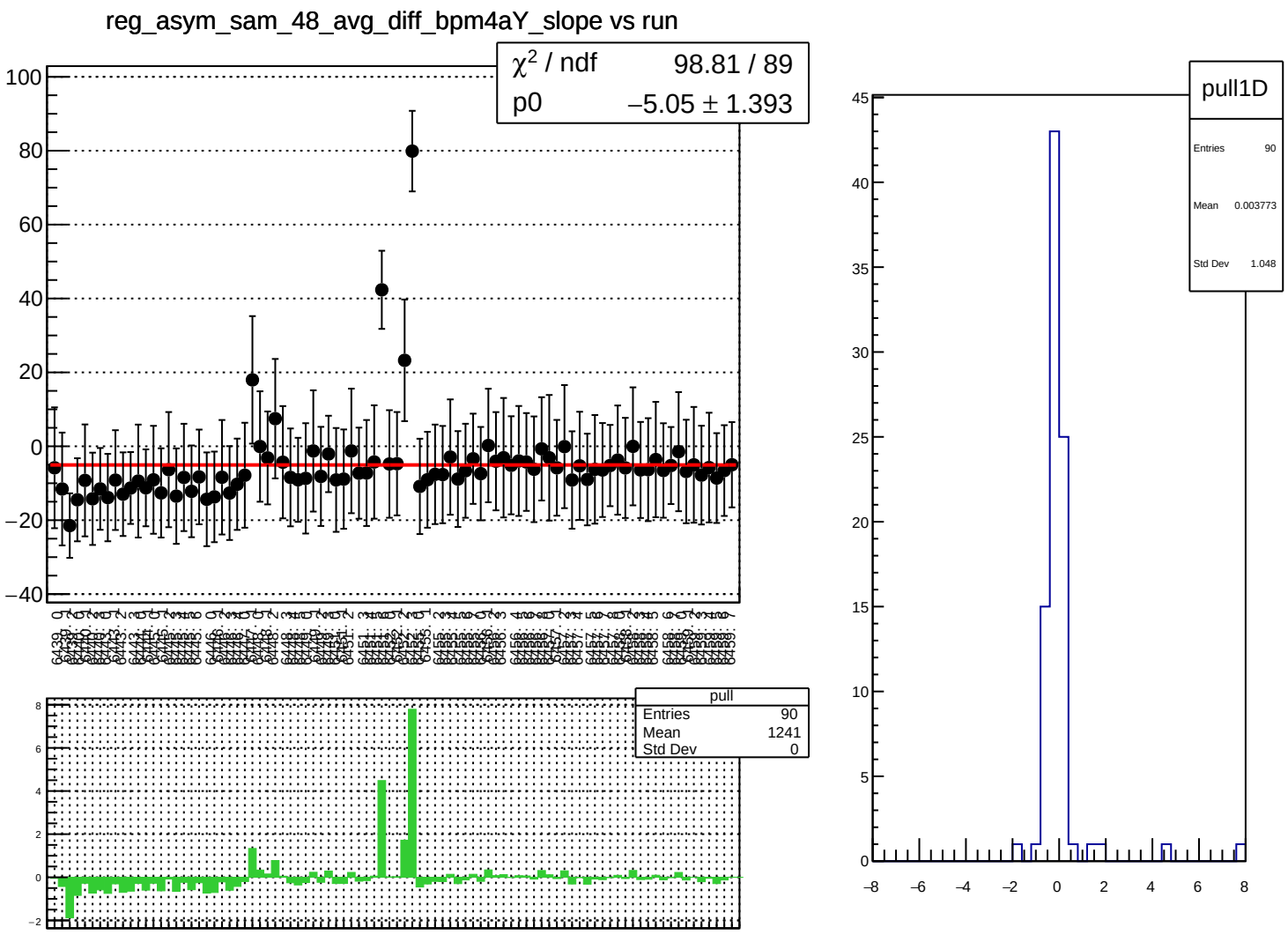

pull1D
Entries 90
Mean 0.03379
Std Dev 0.4355
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

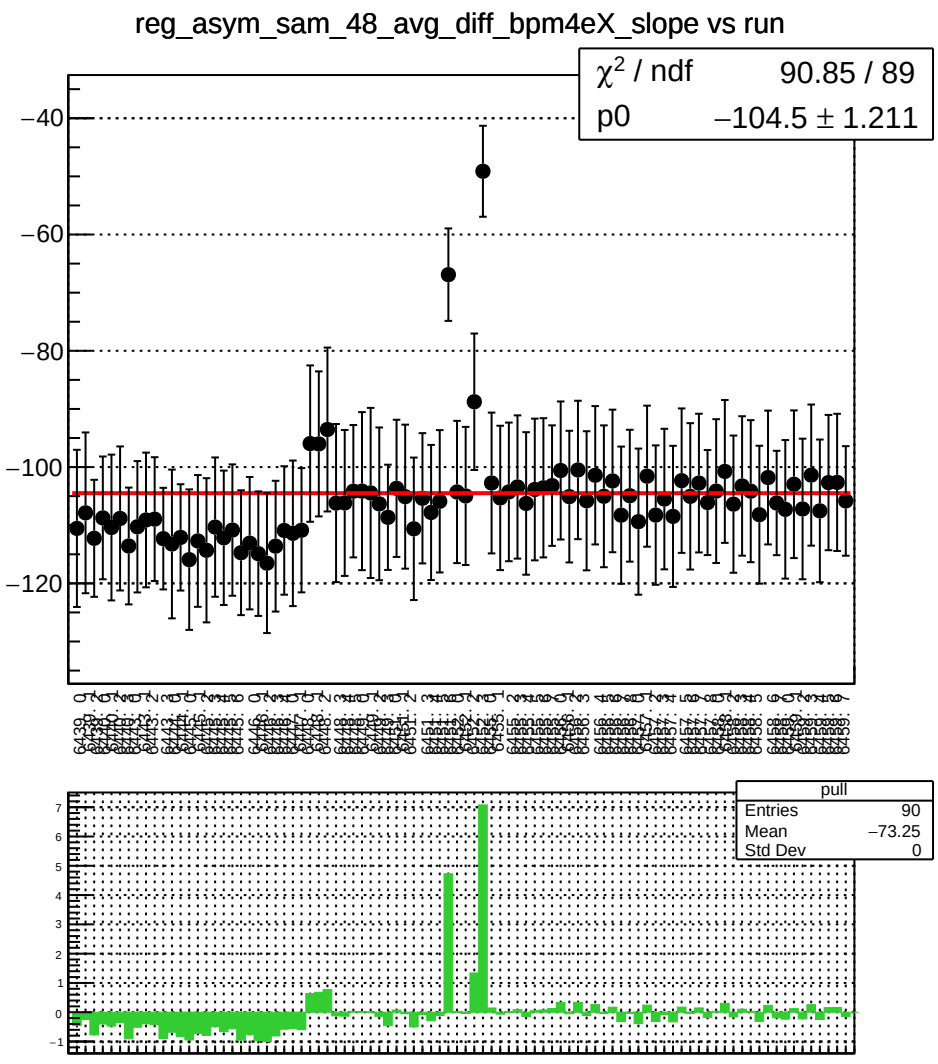

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 7.712 / 89
p0 0.3576 ± 0.06355
pull
Entries 90
Mean 142.6
Std Dev 0

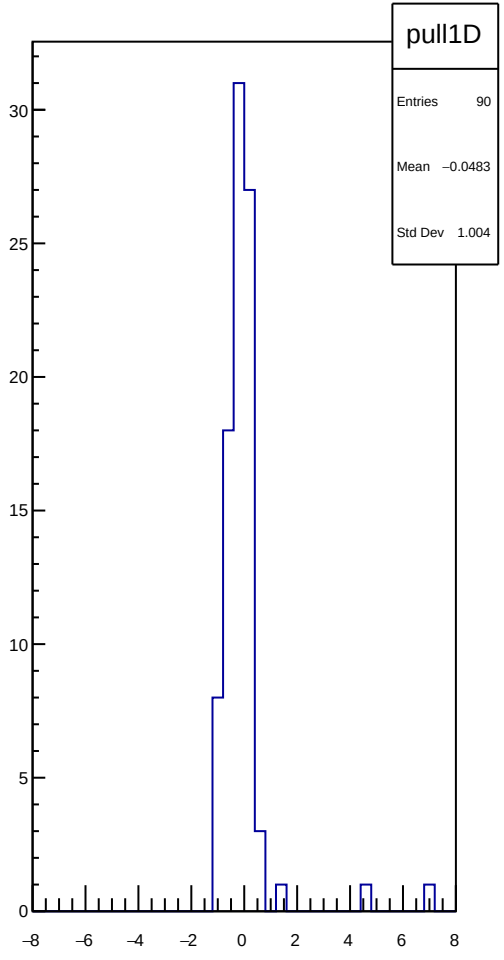

pull1D
Entries 90
Mean 0.002394
Std Dev 0.2927

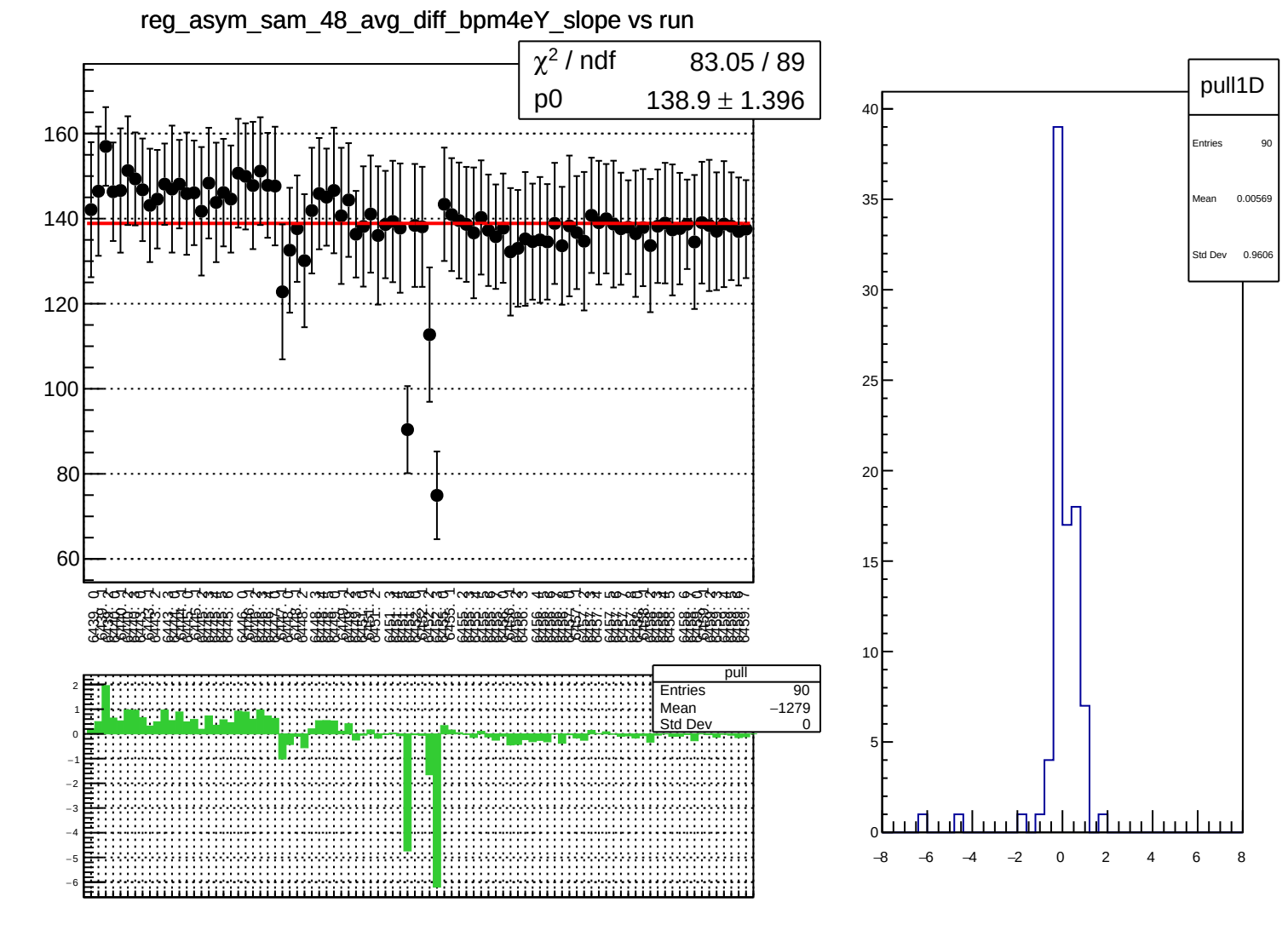

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 158.1 / 89
p0 −14.14 ± 1.199
pull
Entries 90
Mean −71.68
Std Dev 0

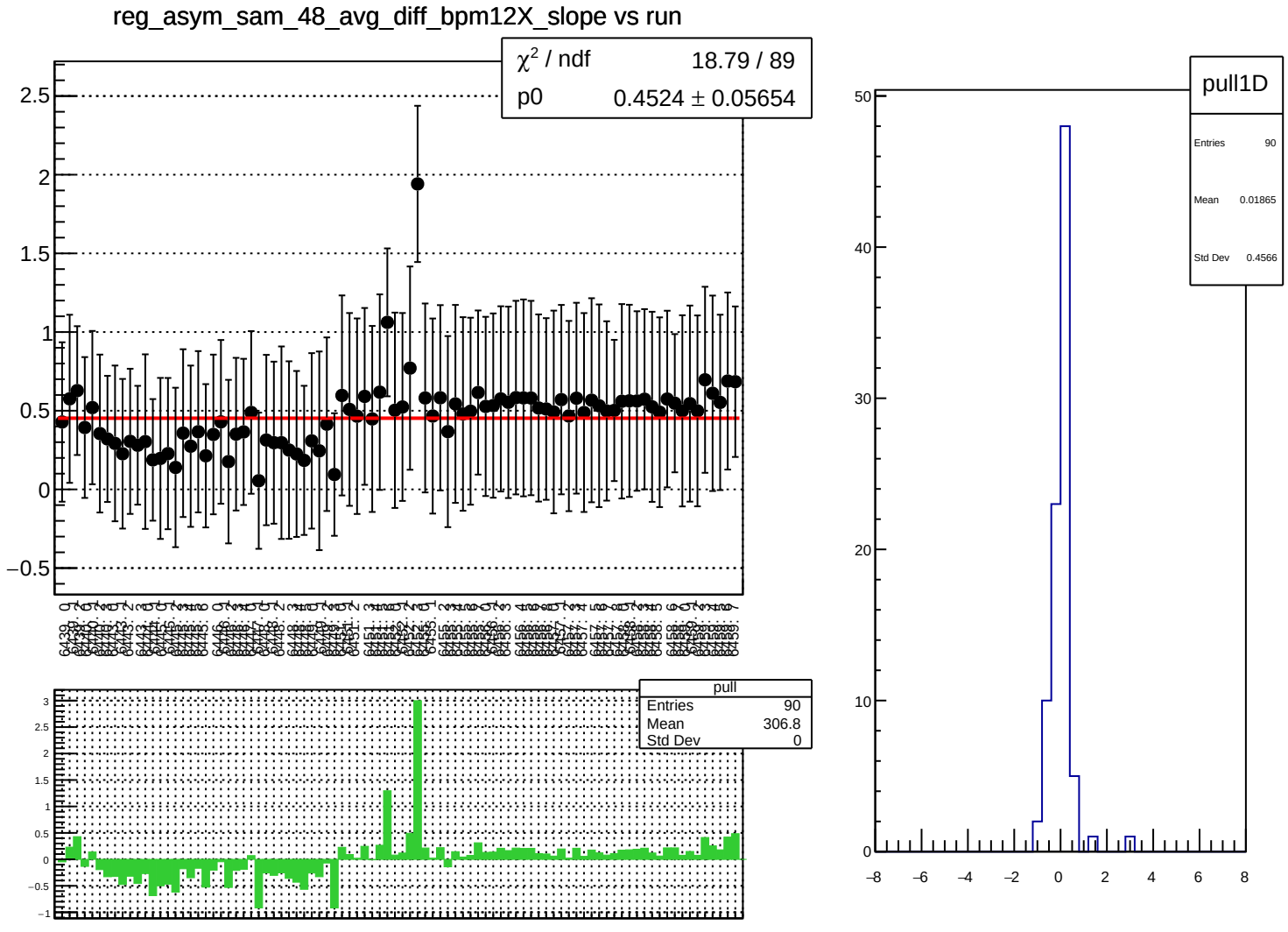

pull1D
Entries 90
Mean 0.1762
Std Dev 0.7054

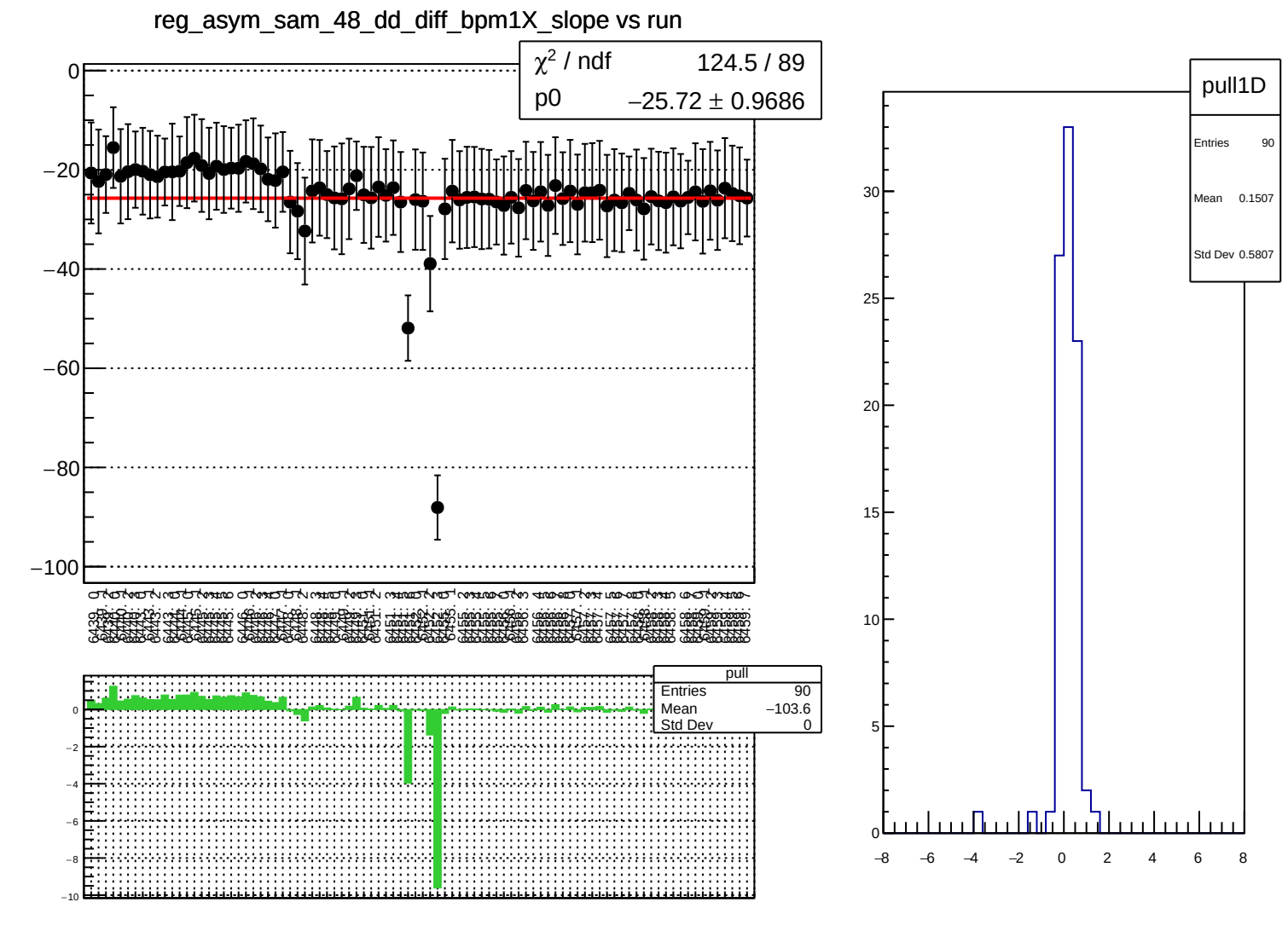

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 98.81 / 89
p0 −5.05 ± 1.393
pull
Entries 90
Mean 1241
Std Dev 0
pull1D
Entries 90
Mean 0.003773
Std Dev 1.048

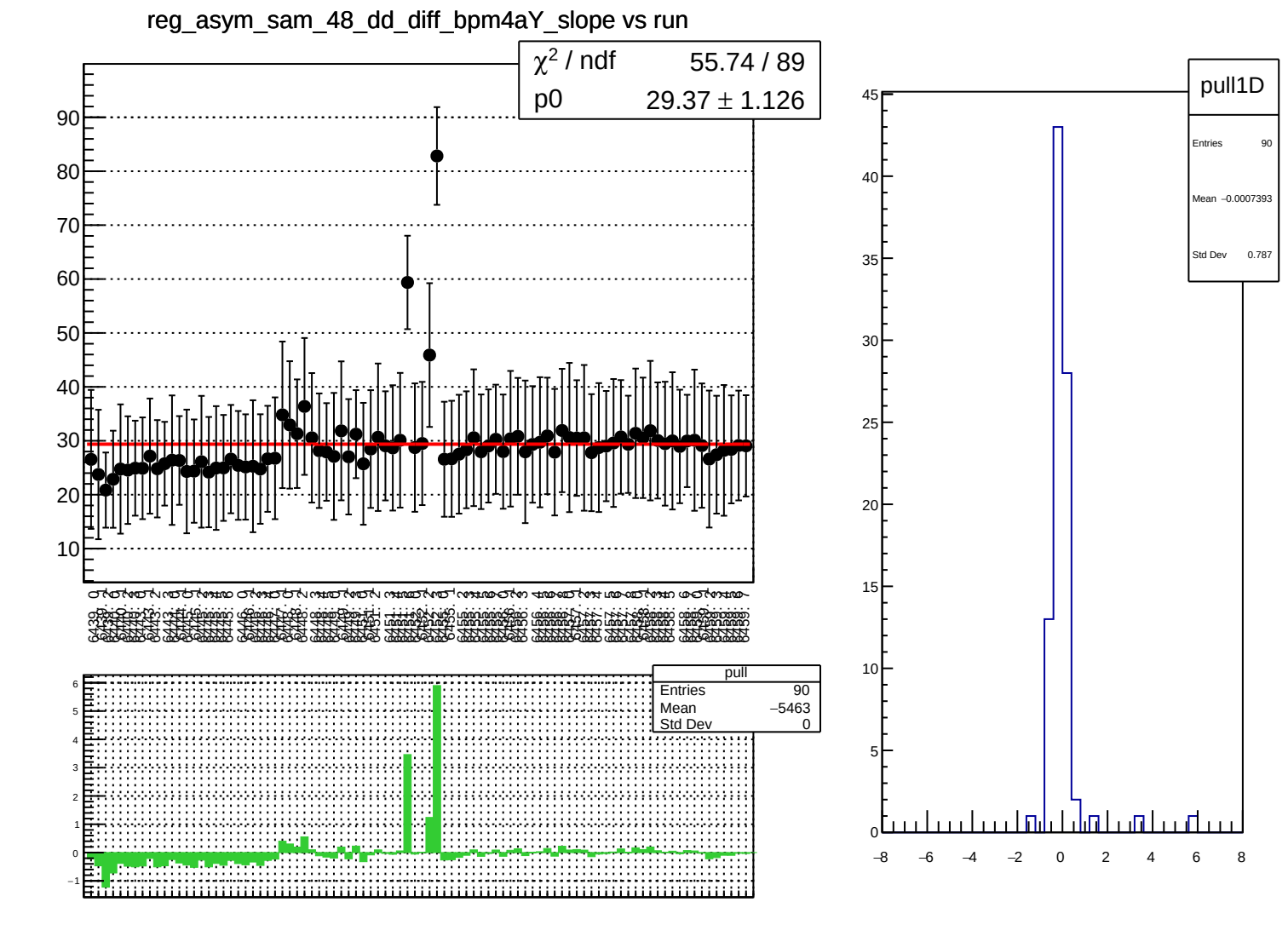

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 90.85 / 89
p0 −104.5 ± 1.211
−40
−60
−80
−100
−120
pull
Entries 90
Mean −73.25
Std Dev 0
7
6
5
4
3
2
1
0
−1

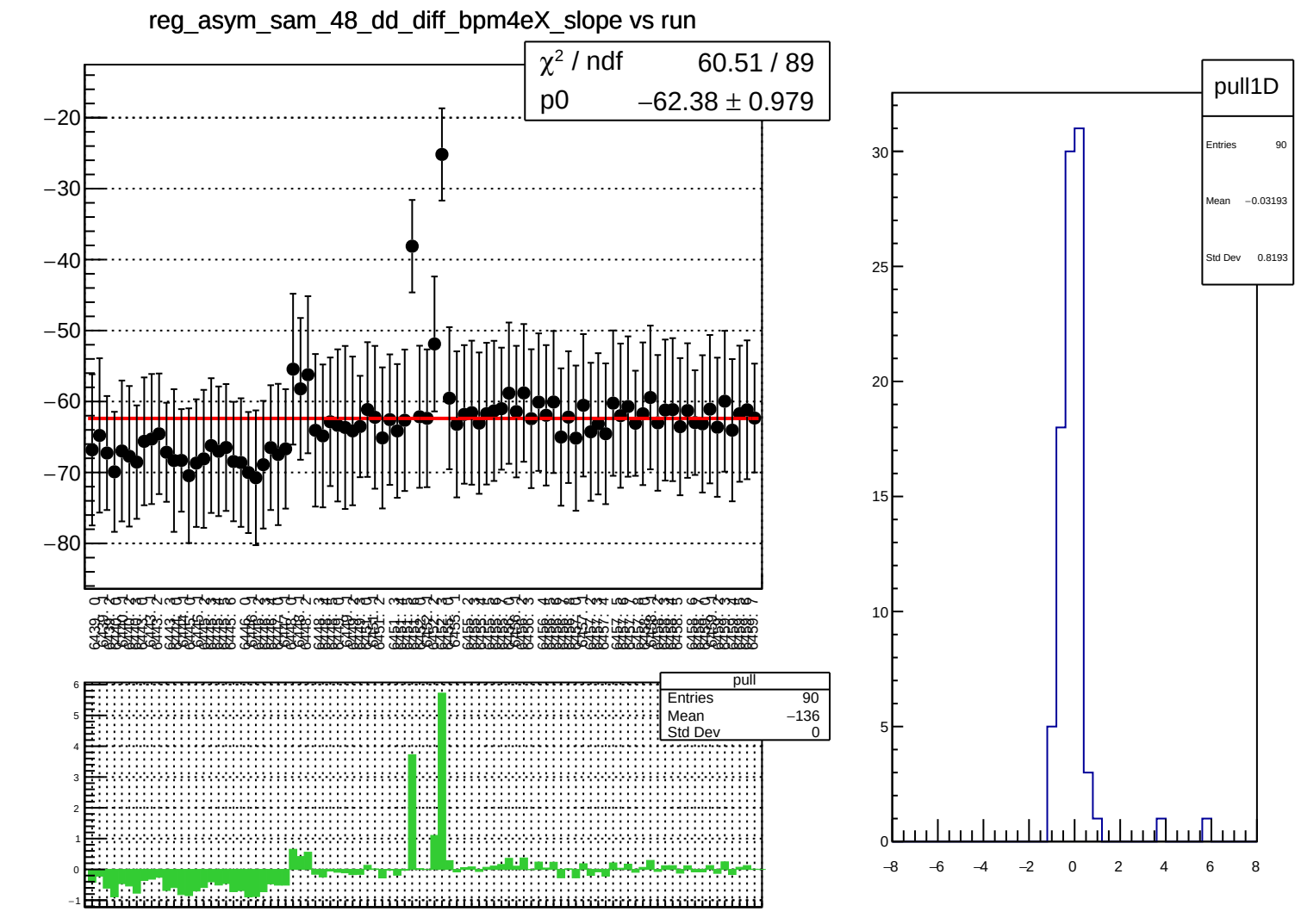

pull1D
Entries 90
Mean −0.0483
Std Dev 1.004
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

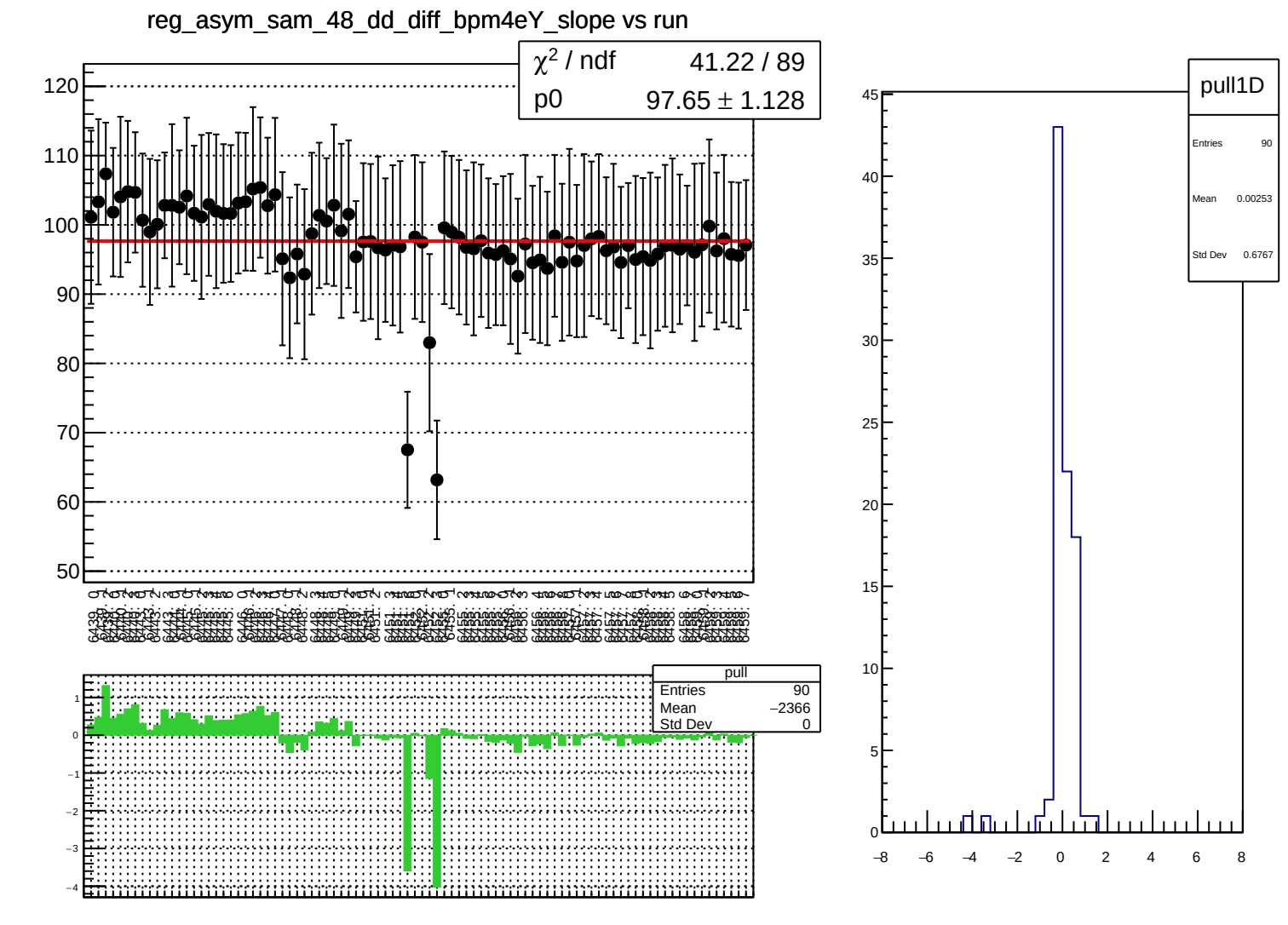

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 83.05 / 89
p0 138.9 ± 1.396
160
140
120
100
80
60
pull
Entries 90
Mean −1279
Std Dev 0
2
1
0
−1
−2
−3
−4
−5
−6
pull1D
Entries 90
Mean 0.00569
Std Dev 0.9606
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

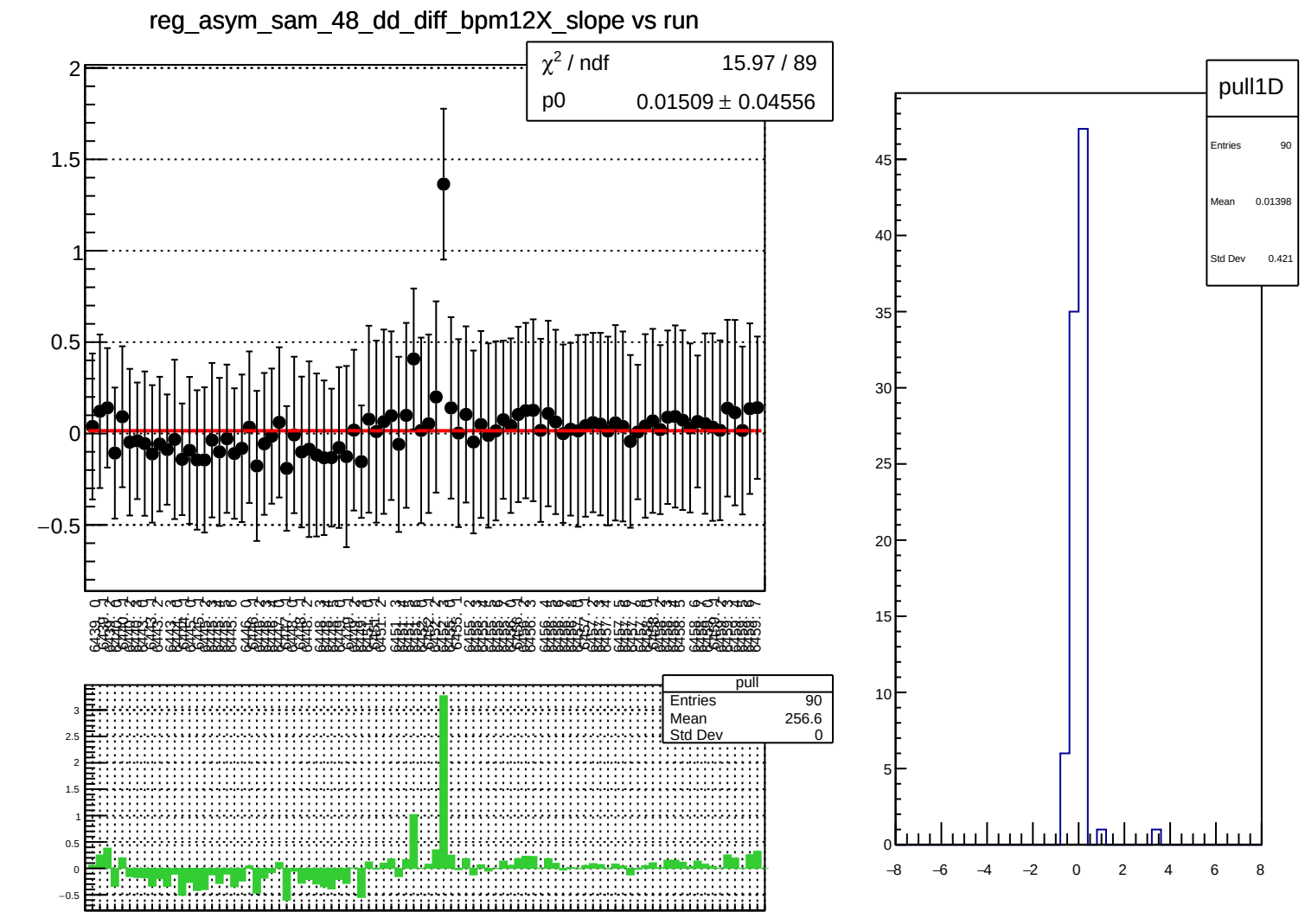

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 18.79 / 89
p0 0.4524 ± 0.05654
pull
Entries 90
Mean 306.8
Std Dev 0
pull1D
Entries 90
Mean 0.01865
Std Dev 0.4566

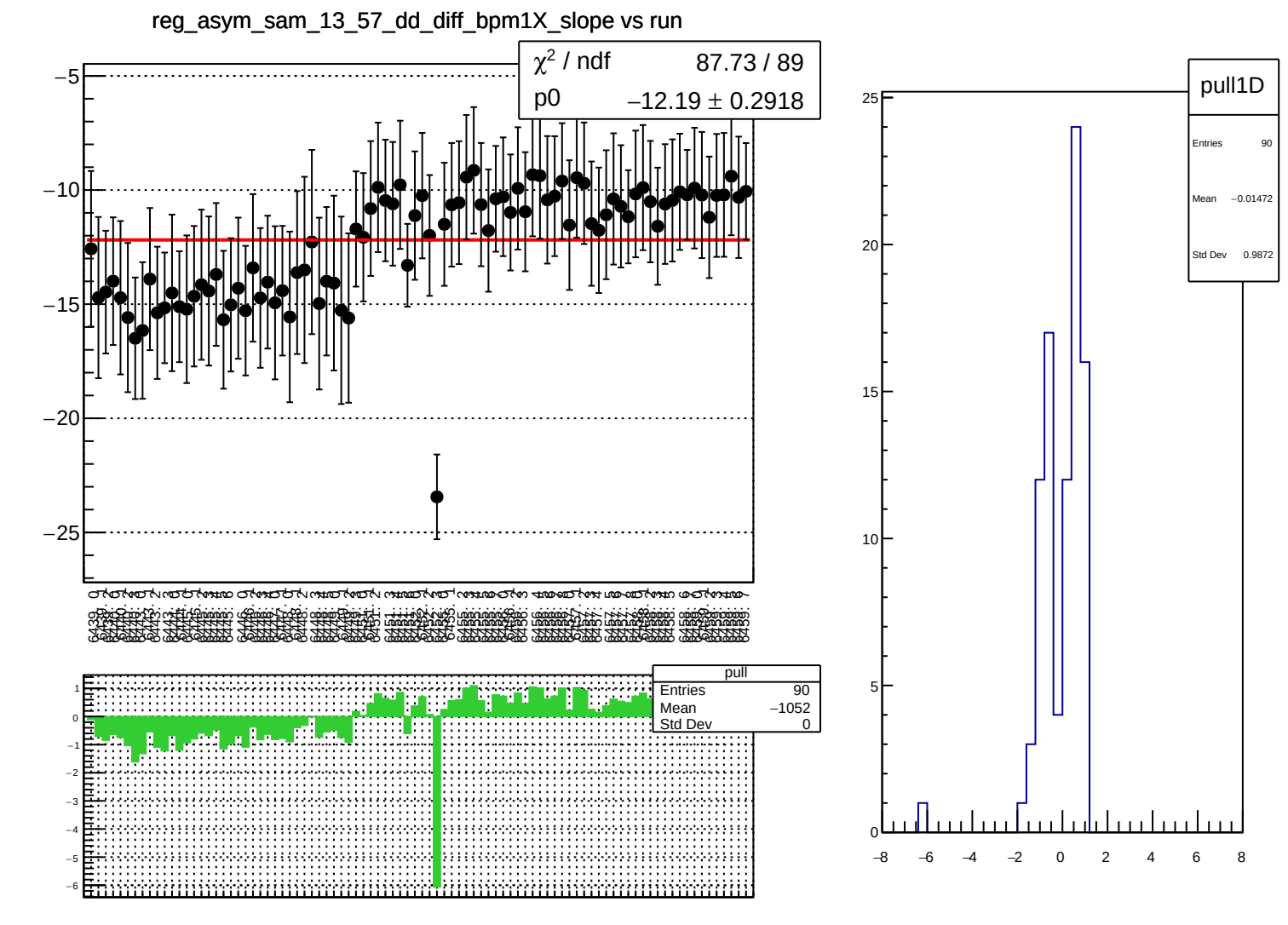

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 124.5 / 89
p0 −25.72 ± 0.9686
pull
Entries 90
Mean −103.6
Std Dev 0
pull1D
Entries 90
Mean 0.1507
Std Dev 0.5807

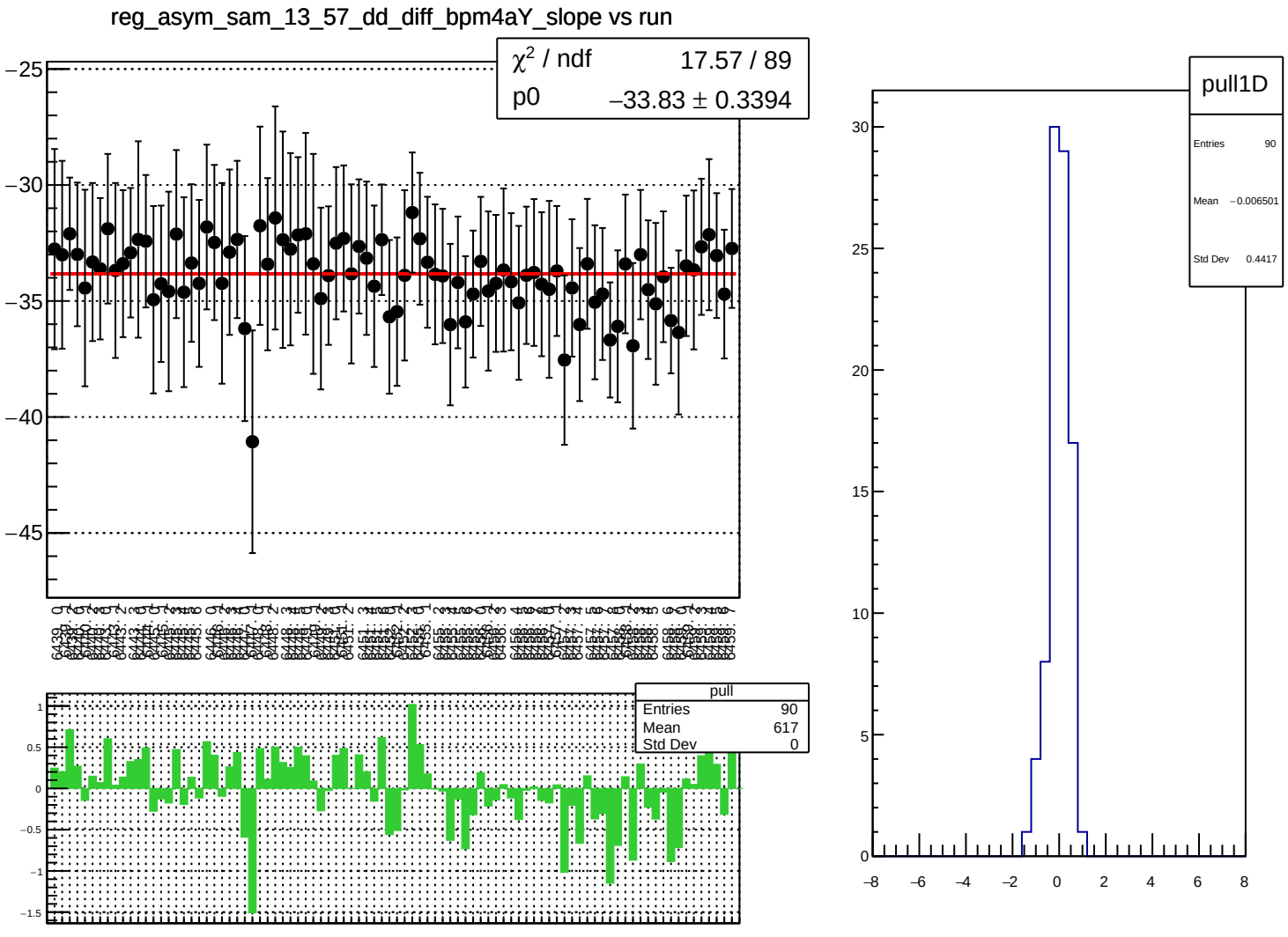

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 55.74 / 89
p0 29.37 ± 1.126
pull
Entries 90
Mean −5463
Std Dev 0
pull1D
Entries 90
Mean −0.0007393
Std Dev 0.787

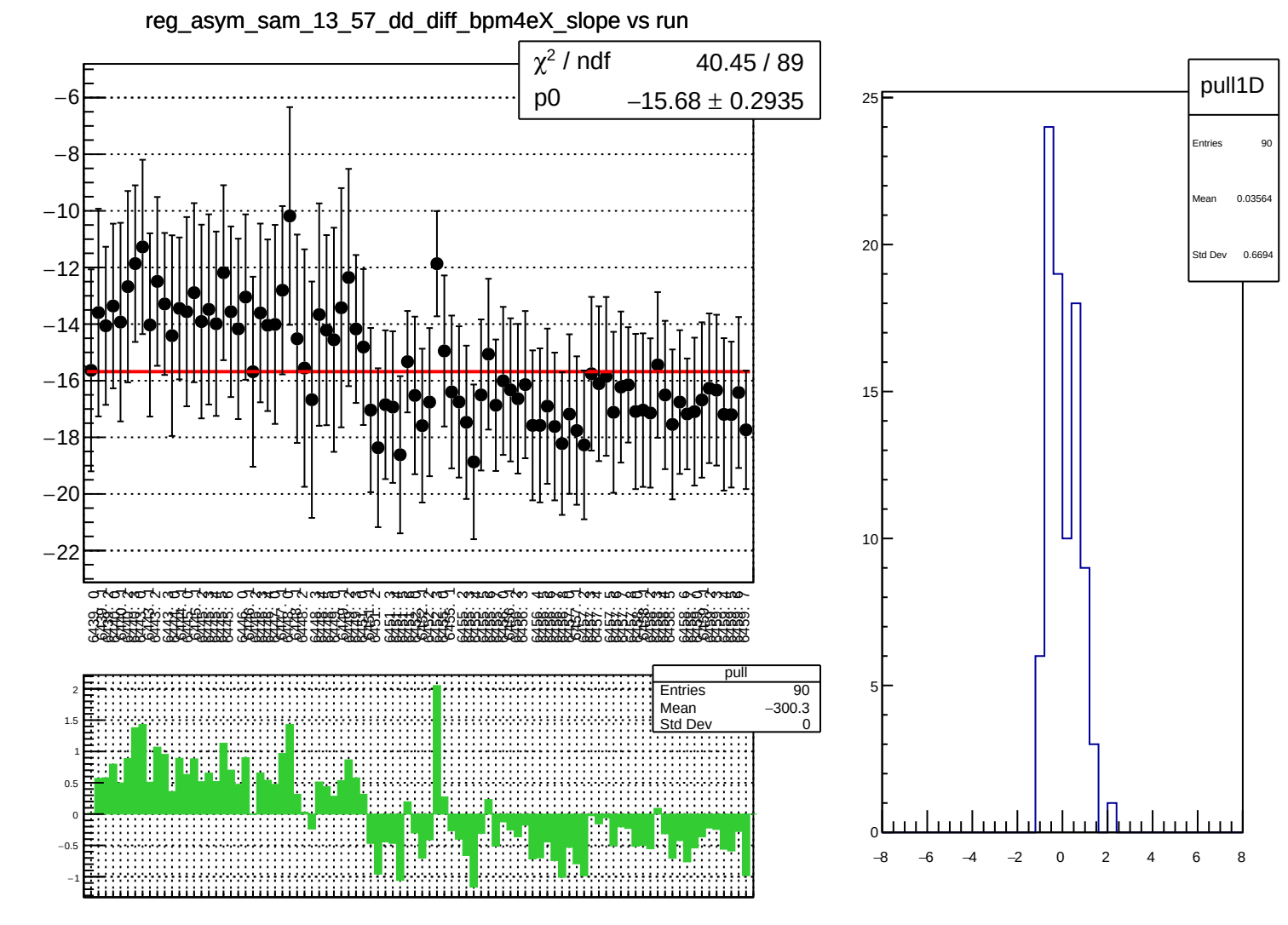

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 60.51 / 89
p0 −62.38 ± 0.979
pull
Entries 90
Mean −136
Std Dev 0
pull1D
Entries 90
Mean −0.03193
Std Dev 0.8193

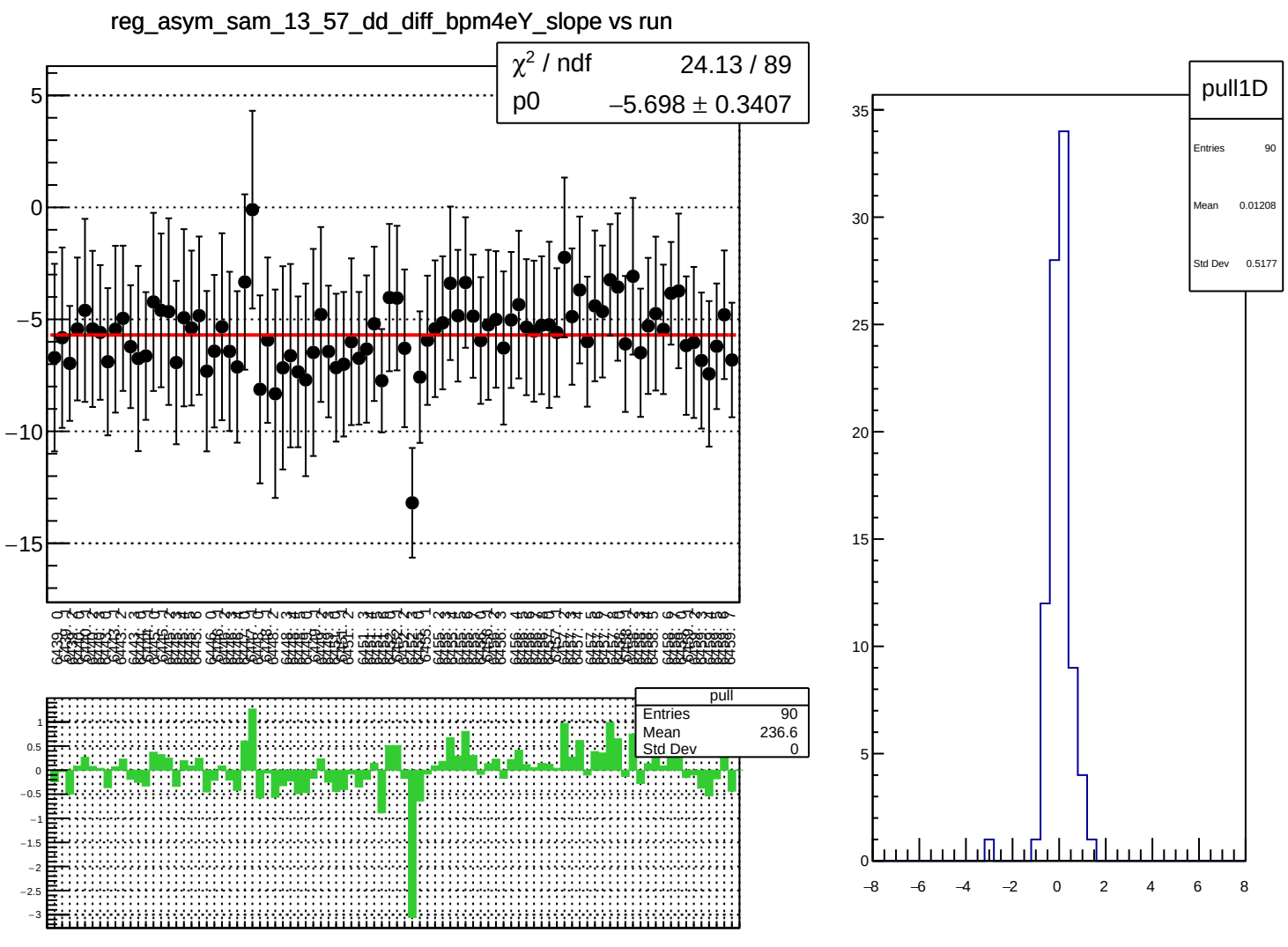

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 41.22 / 89
p0 97.65 ± 1.128
pull
Entries 90
Mean −2366
Std Dev 0
pull1D
Entries 90
Mean 0.00253
Std Dev 0.6767

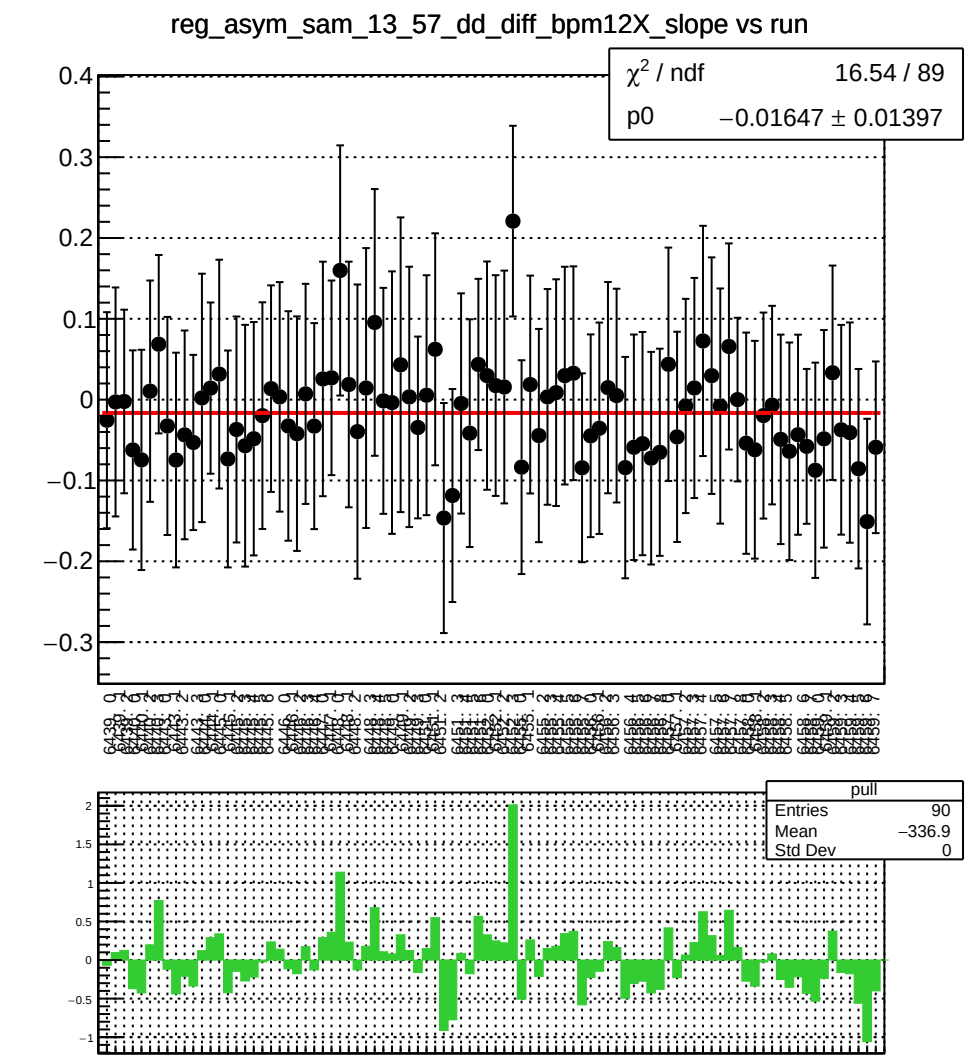

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 15.97 / 89
p0 0.01509 ± 0.04556
pull
Entries 90
Mean 256.6
Std Dev 0
pull1D
Entries 90
Mean 0.01398
Std Dev 0.421

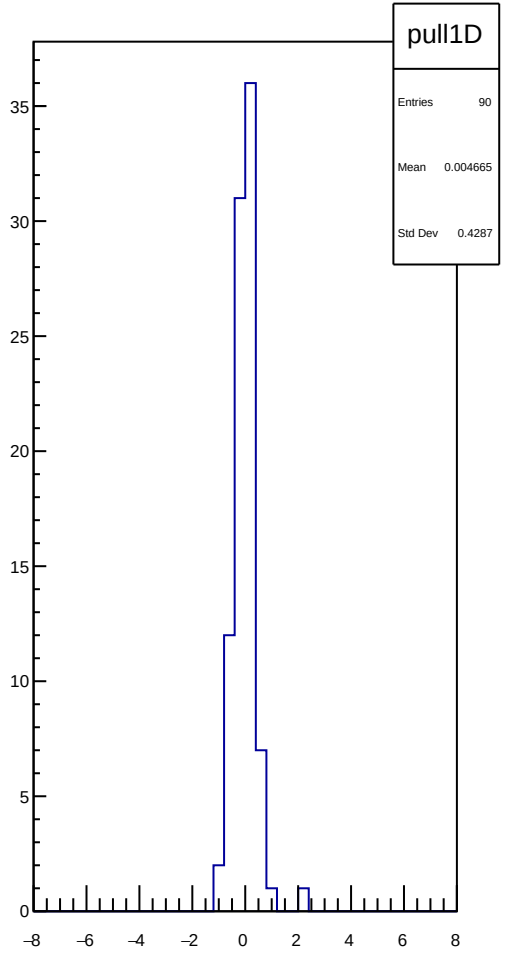

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 87.73 / 89
p0 −12.19 ± 0.2918
pull
Entries 90
Mean −1052
Std Dev 0
pull1D
Entries 90
Mean −0.01472
Std Dev 0.9872

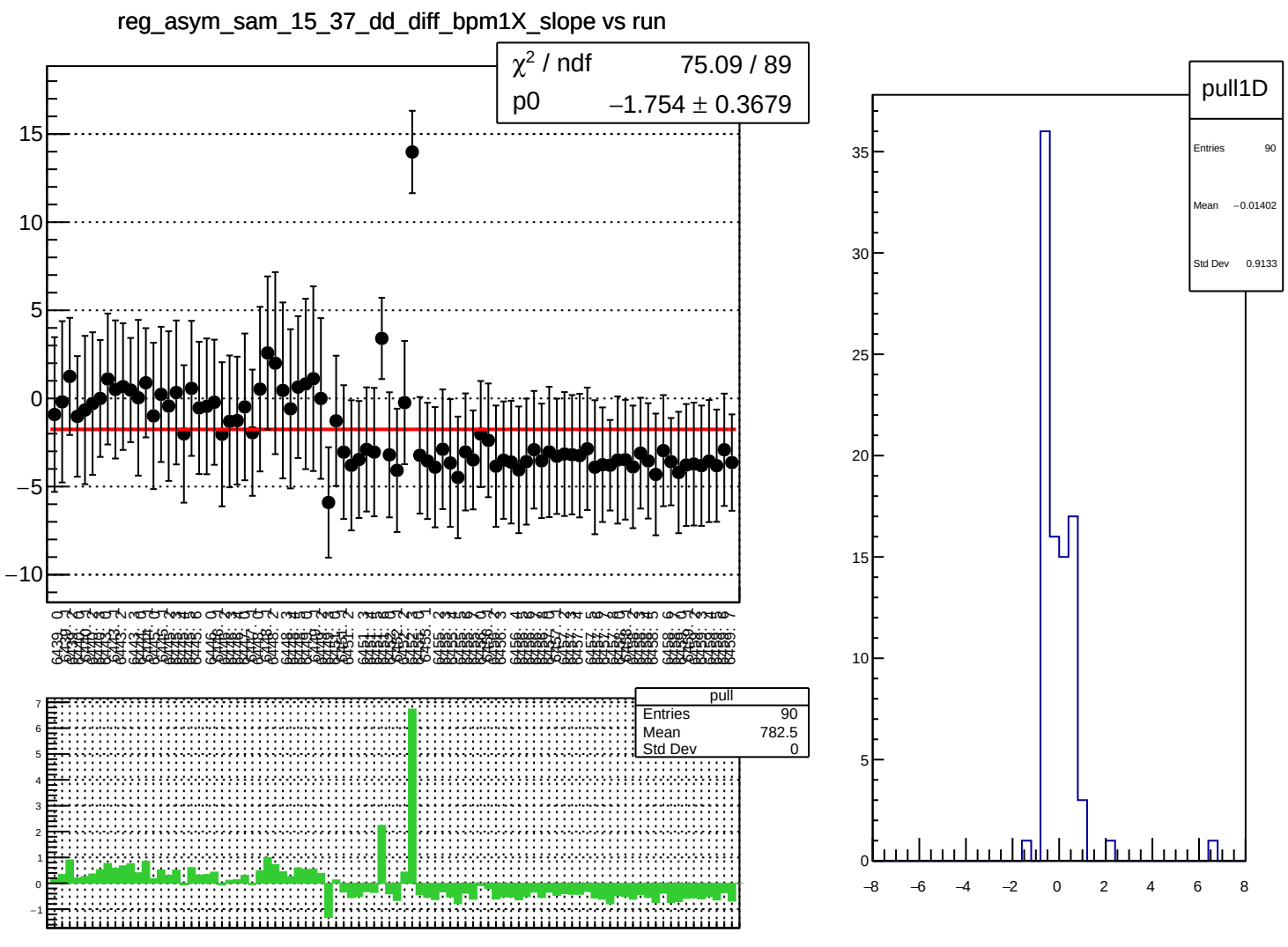

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 17.57 / 89
p0 −33.83 ± 0.3394
−25
−30
−35
−40
−45
pull
Entries 90
Mean 617
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 90
Mean −0.006501
Std Dev 0.4417
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

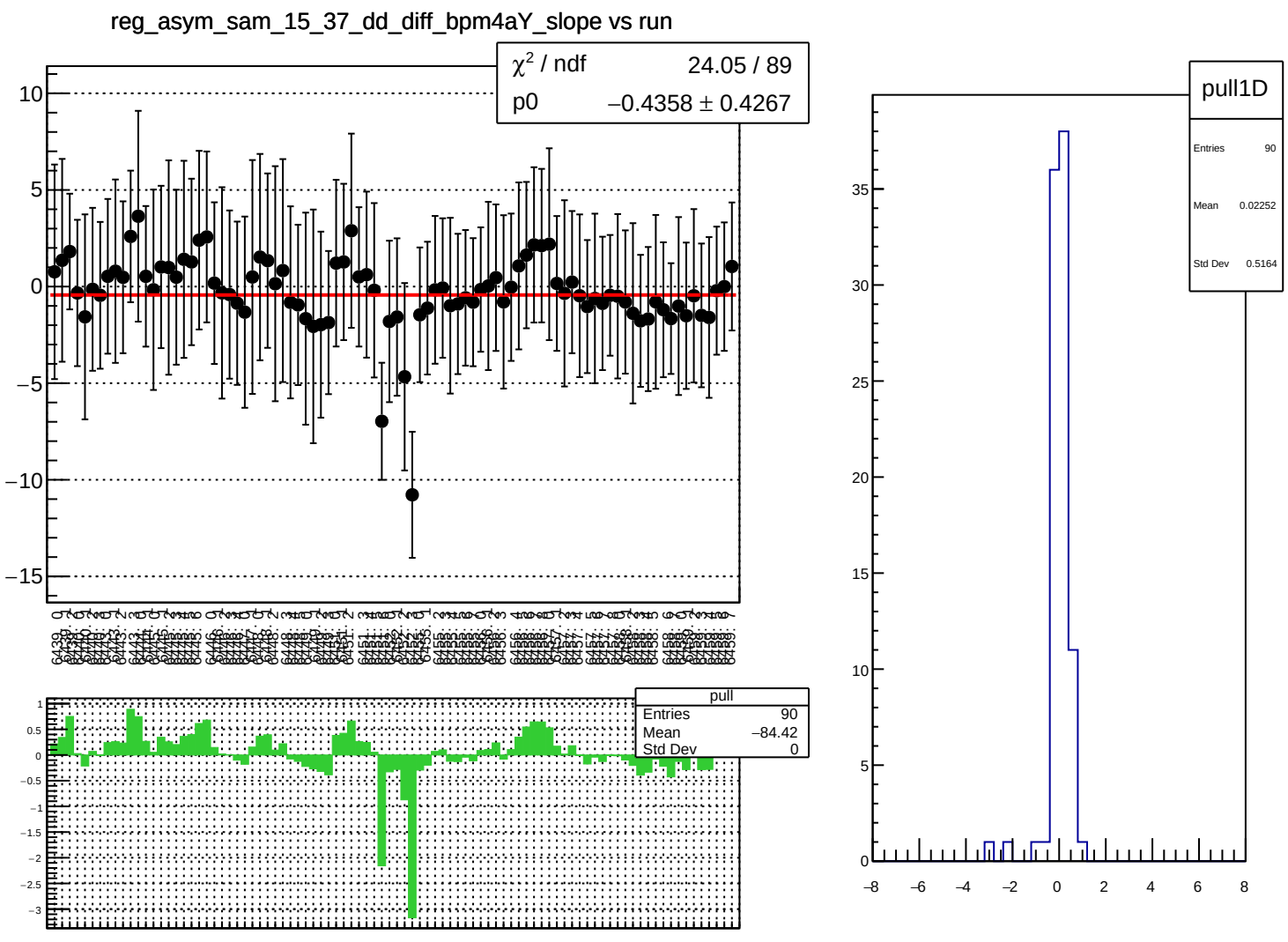

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 40.45 / 89
p0 −15.68 ± 0.2935
pull
Entries 90
Mean −300.3
Std Dev 0
pull1D
Entries 90
Mean 0.03564
Std Dev 0.6694

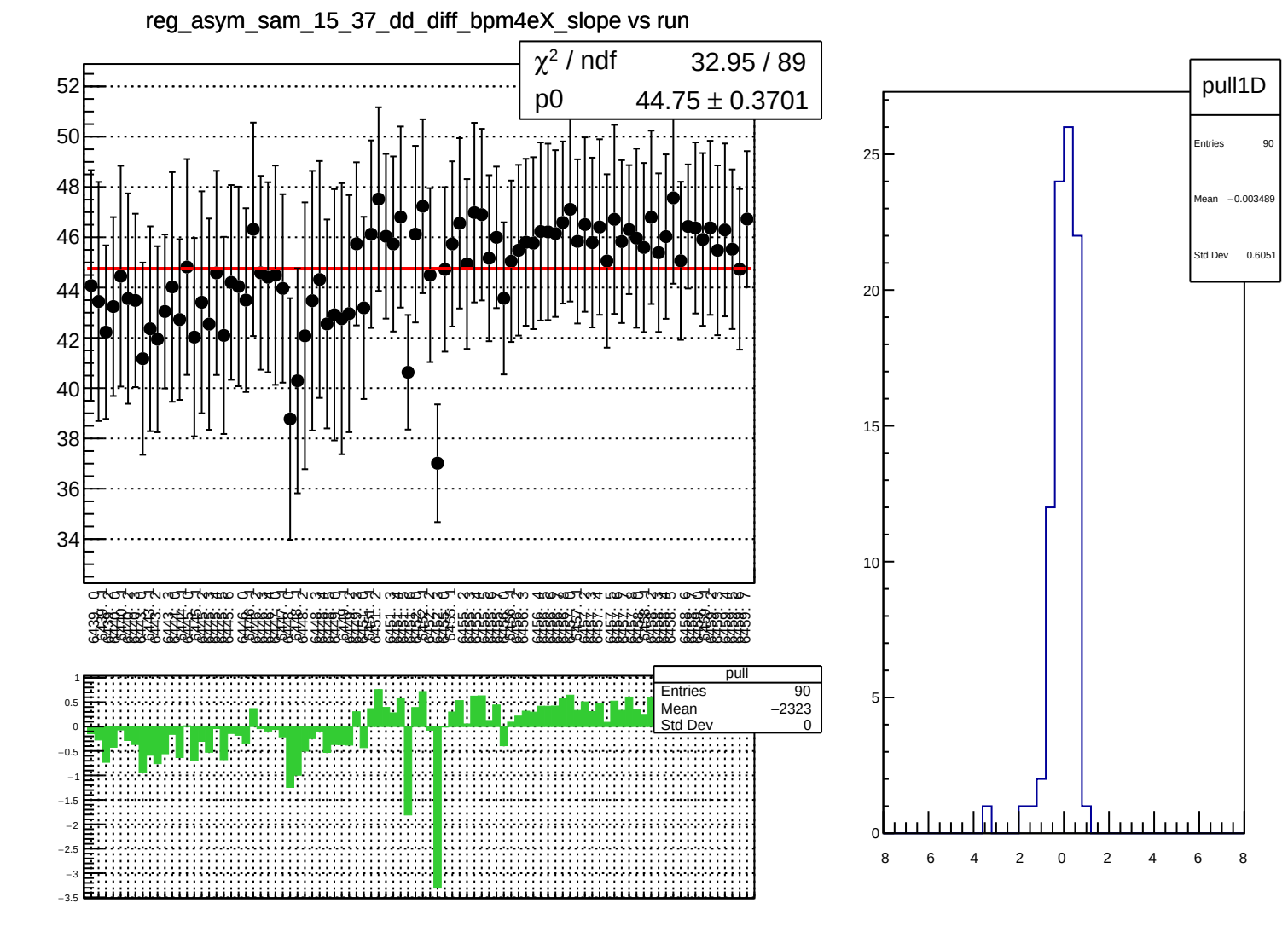

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 24.13 / 89
p0 −5.698 ± 0.3407
pull
Entries 90
Mean 236.6
Std Dev 0
pull1D
Entries 90
Mean 0.01208
Std Dev 0.5177

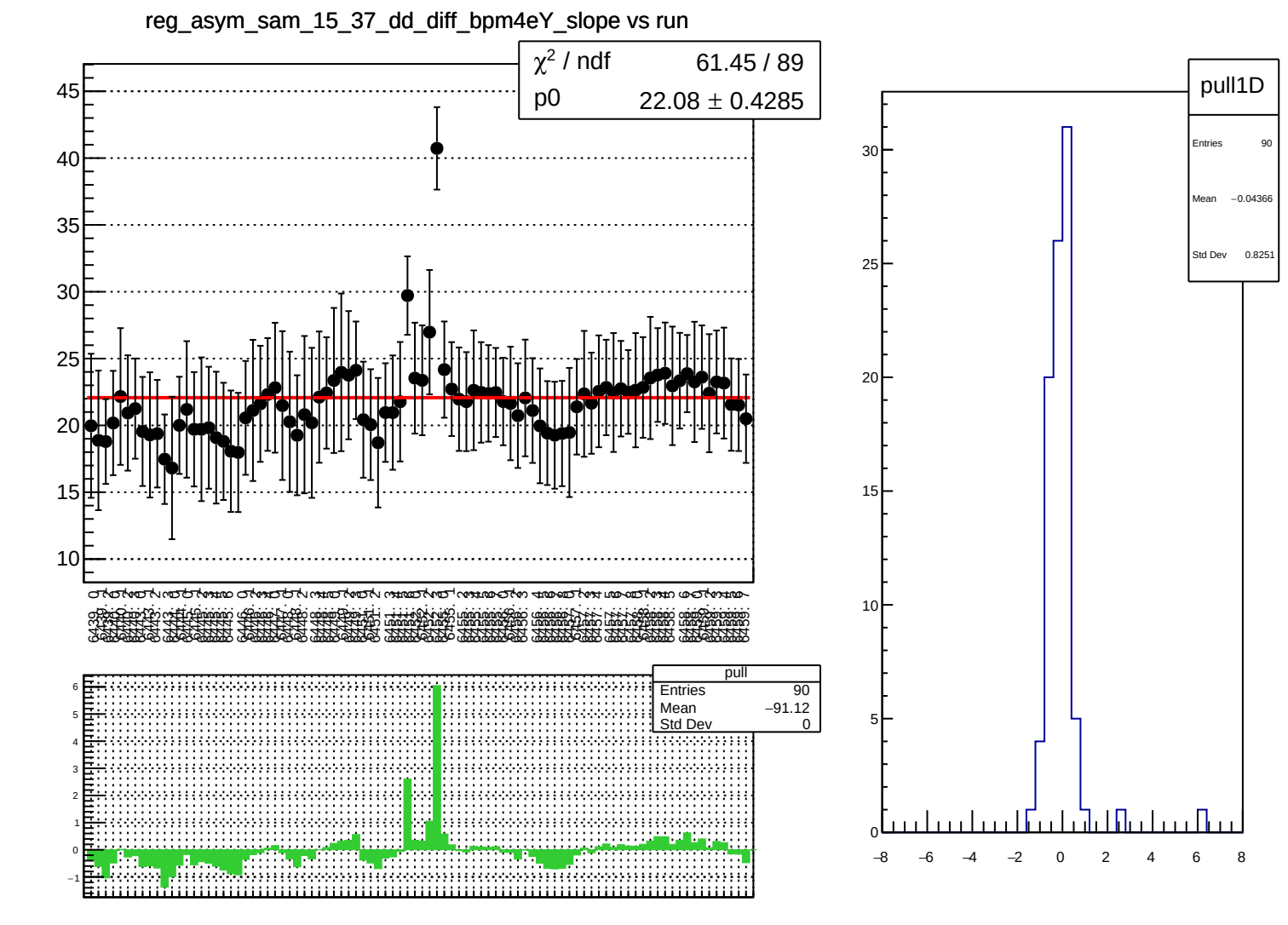

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 16.54 / 89
p0 −0.01647 ± 0.01397
pull
Entries 90
Mean −336.9
Std Dev 0

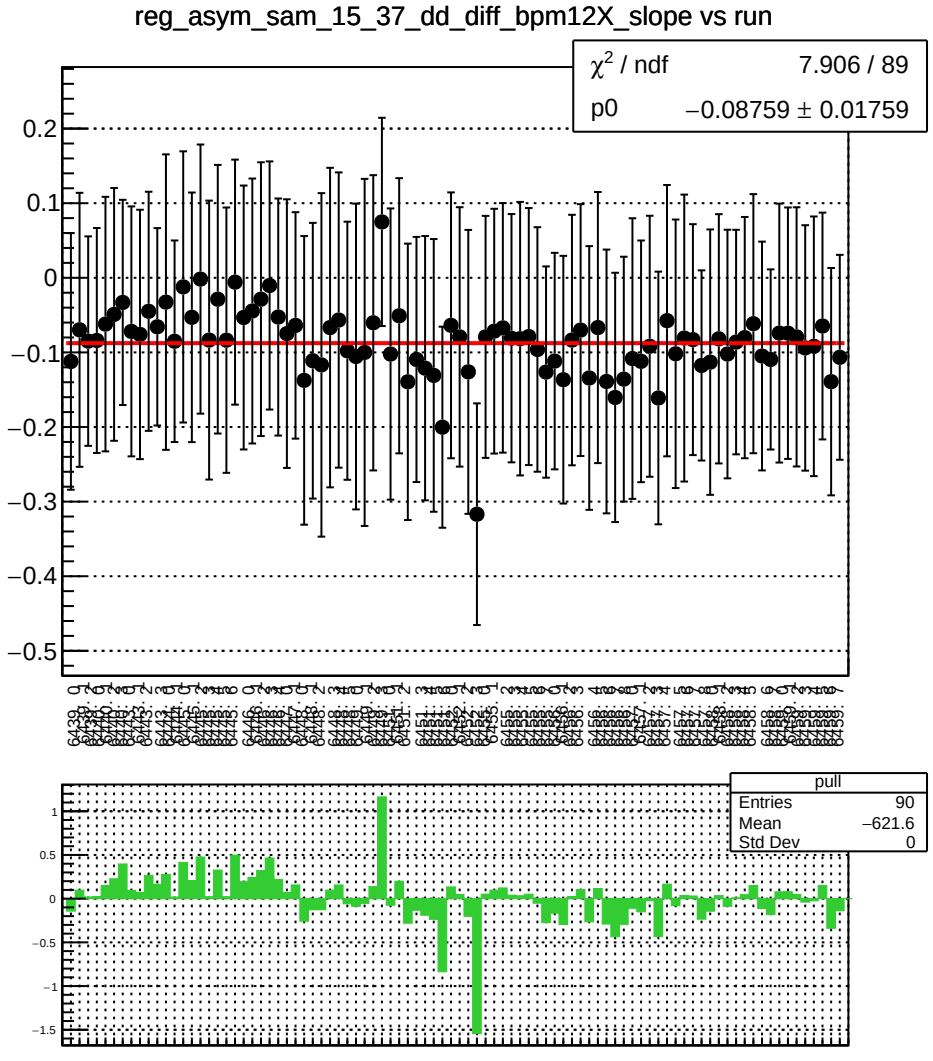

pull1D
Entries 90
Mean 0.004665
Std Dev 0.4287

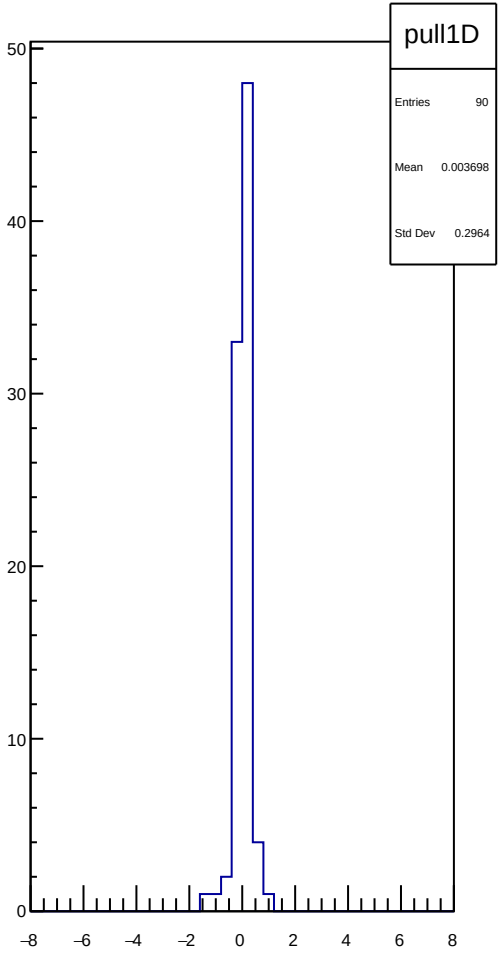

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 75.09 / 89
p0 −1.754 ± 0.3679
pull
Entries 90
Mean 782.5
Std Dev 0
pull1D
Entries 90
Mean −0.01402
Std Dev 0.9133

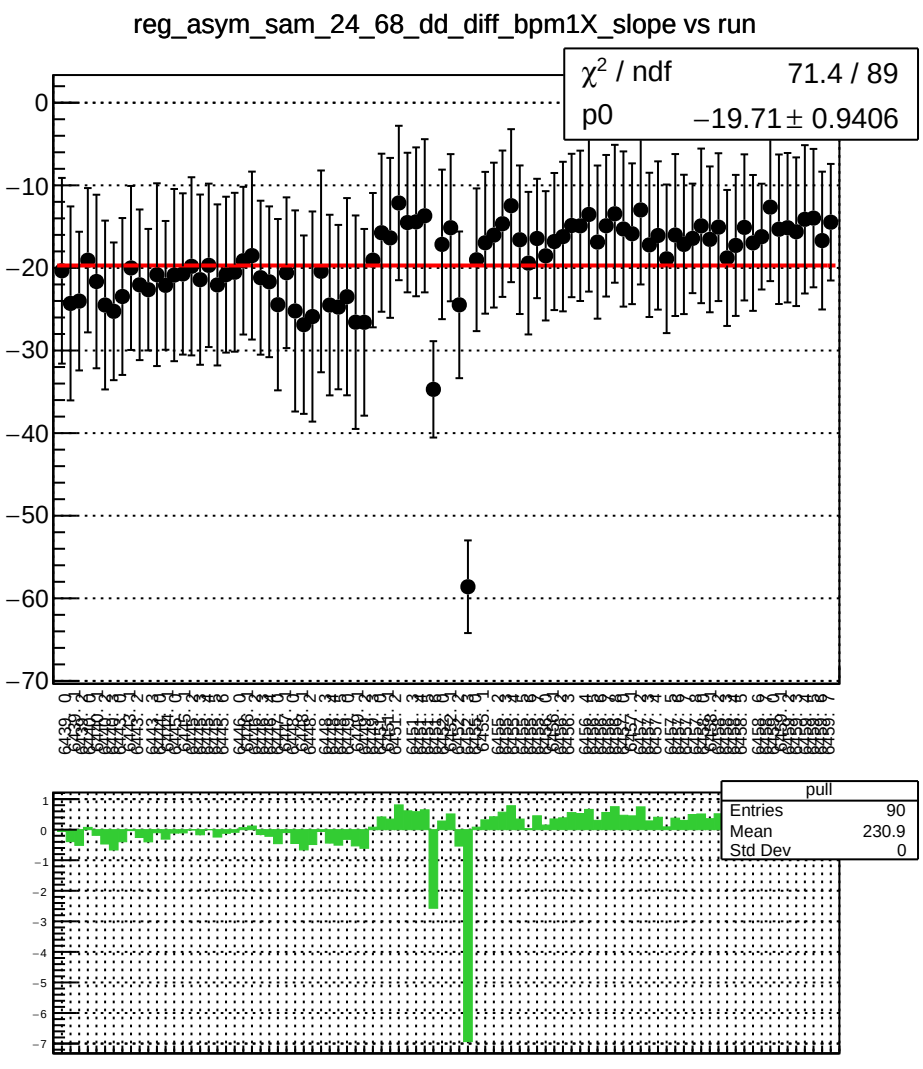

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 24.05 / 89
p0 −0.4358 ± 0.4267
pull
Entries 90
Mean −84.42
Std Dev 0
pull1D
Entries 90
Mean 0.02252
Std Dev 0.5164

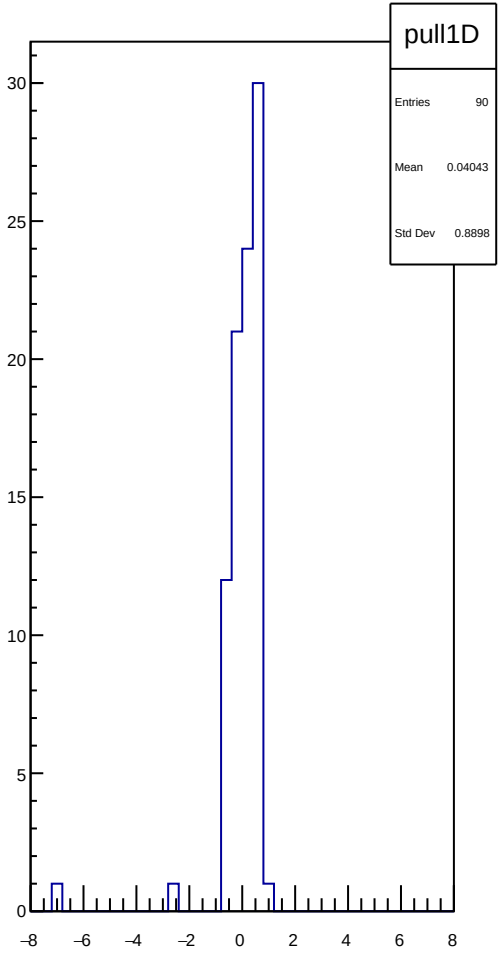

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 32.95 / 89
p0 44.75 ± 0.3701
pull
Entries 90
Mean −2323
Std Dev 0
pull1D
Entries 90
Mean −0.003489
Std Dev 0.6051

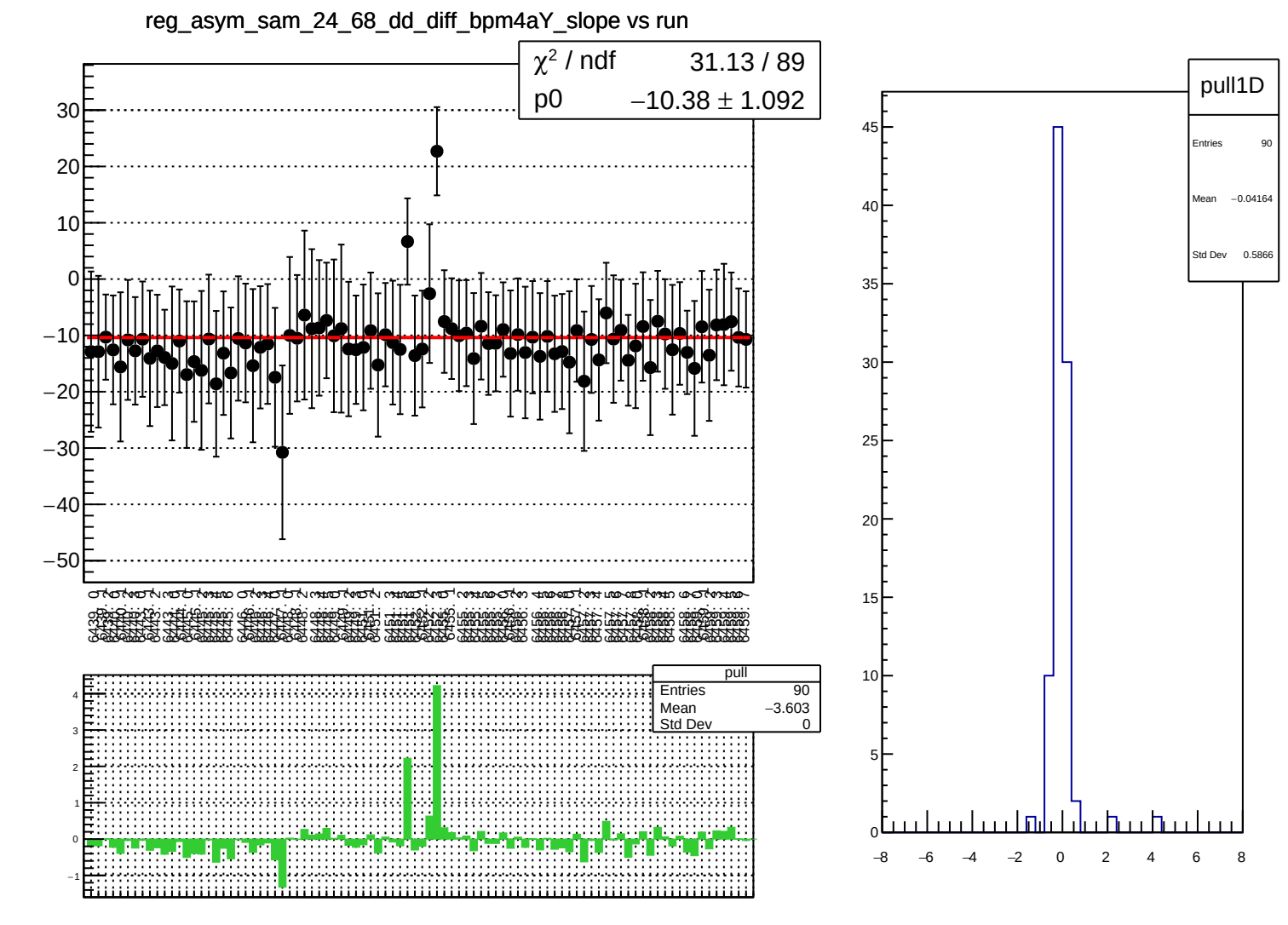

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 61.45 / 89
p0 22.08 ± 0.4285
pull
Entries 90
Mean −91.12
Std Dev 0
pull1D
Entries 90
Mean −0.04366
Std Dev 0.8251

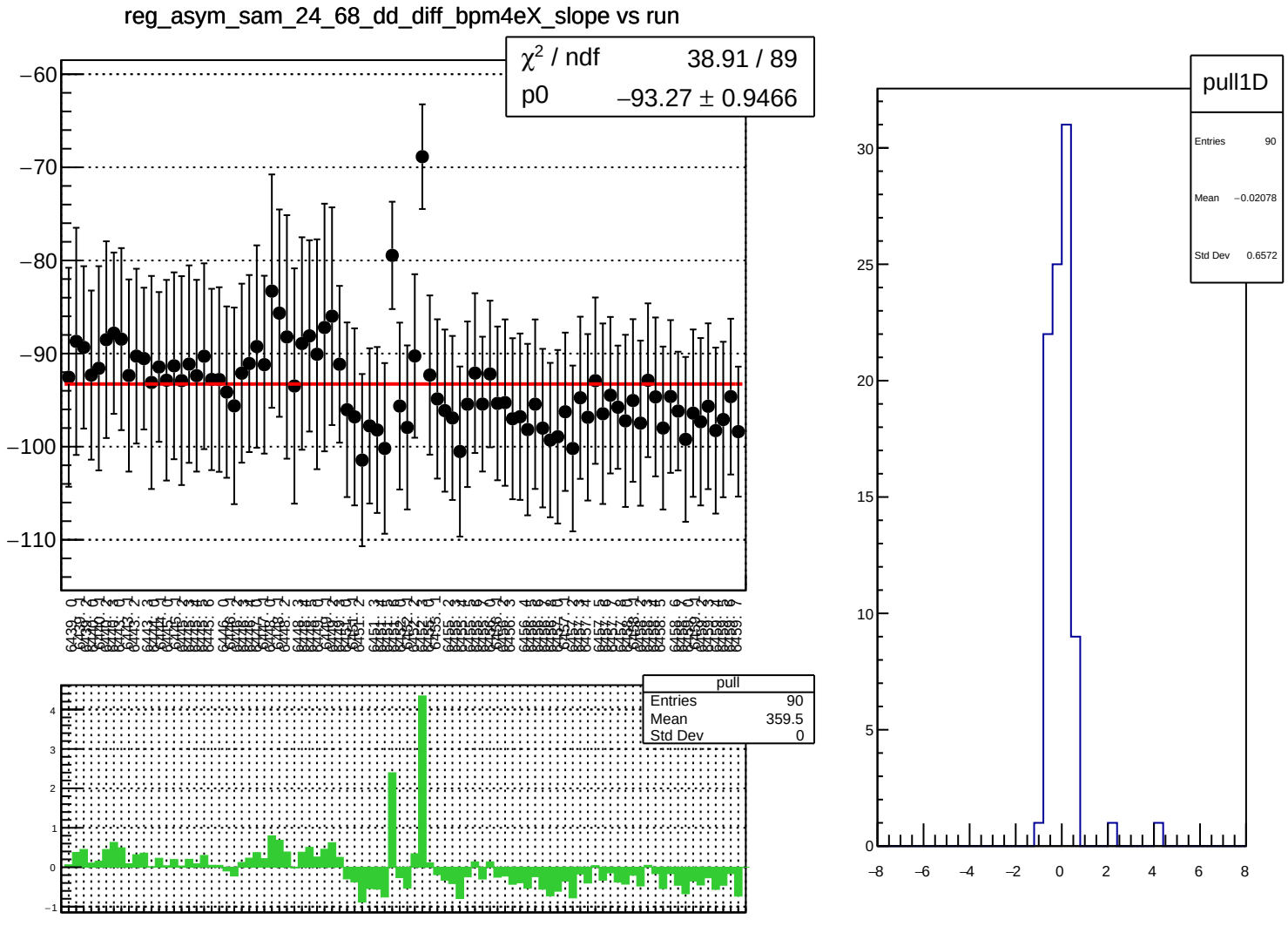

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 7.906 / 89
p0 −0.08759 ± 0.01759
pull
Entries 90
Mean −621.6
Std Dev 0

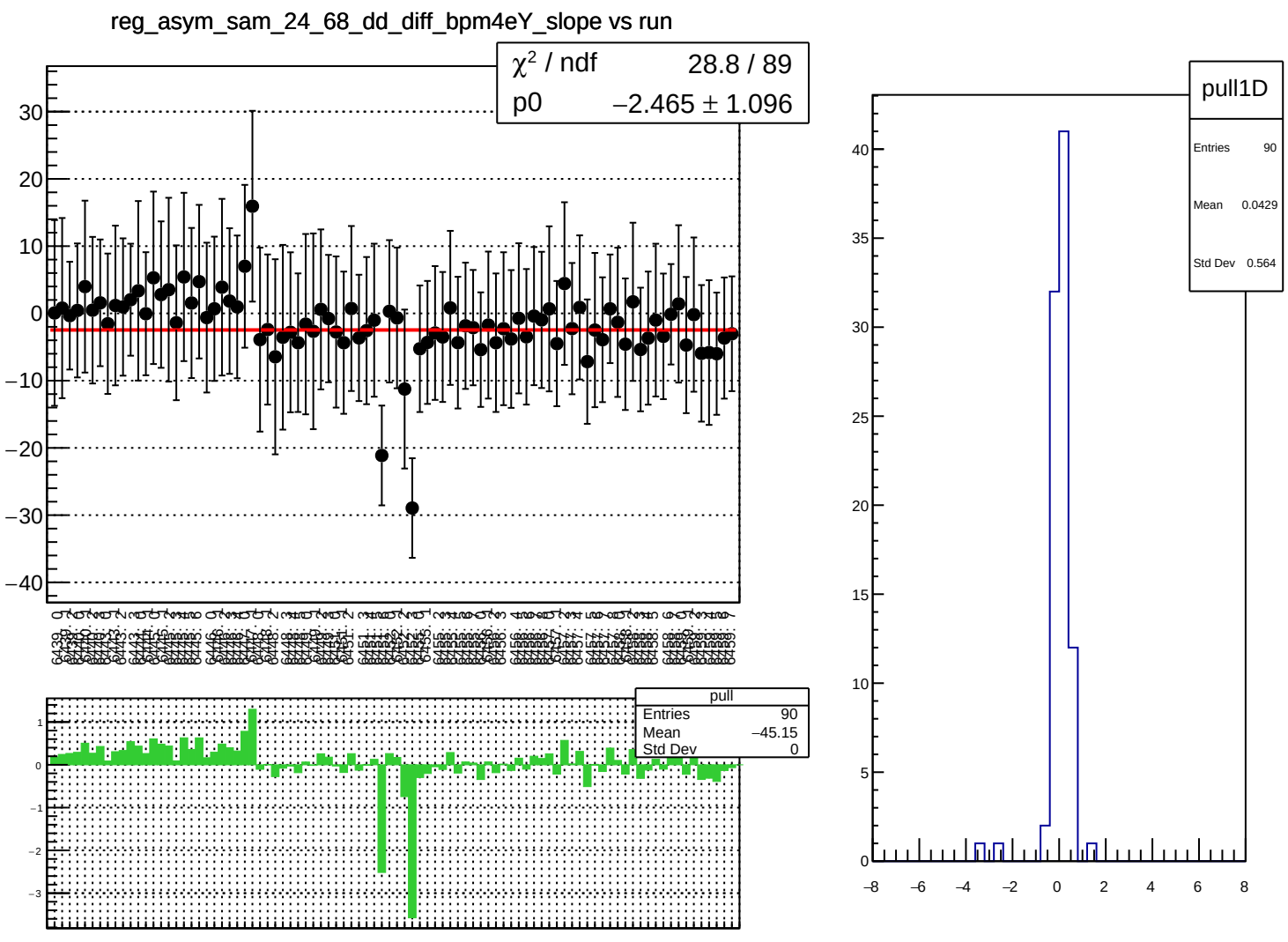

pull1D
Entries 90
Mean 0.003698
Std Dev 0.2964

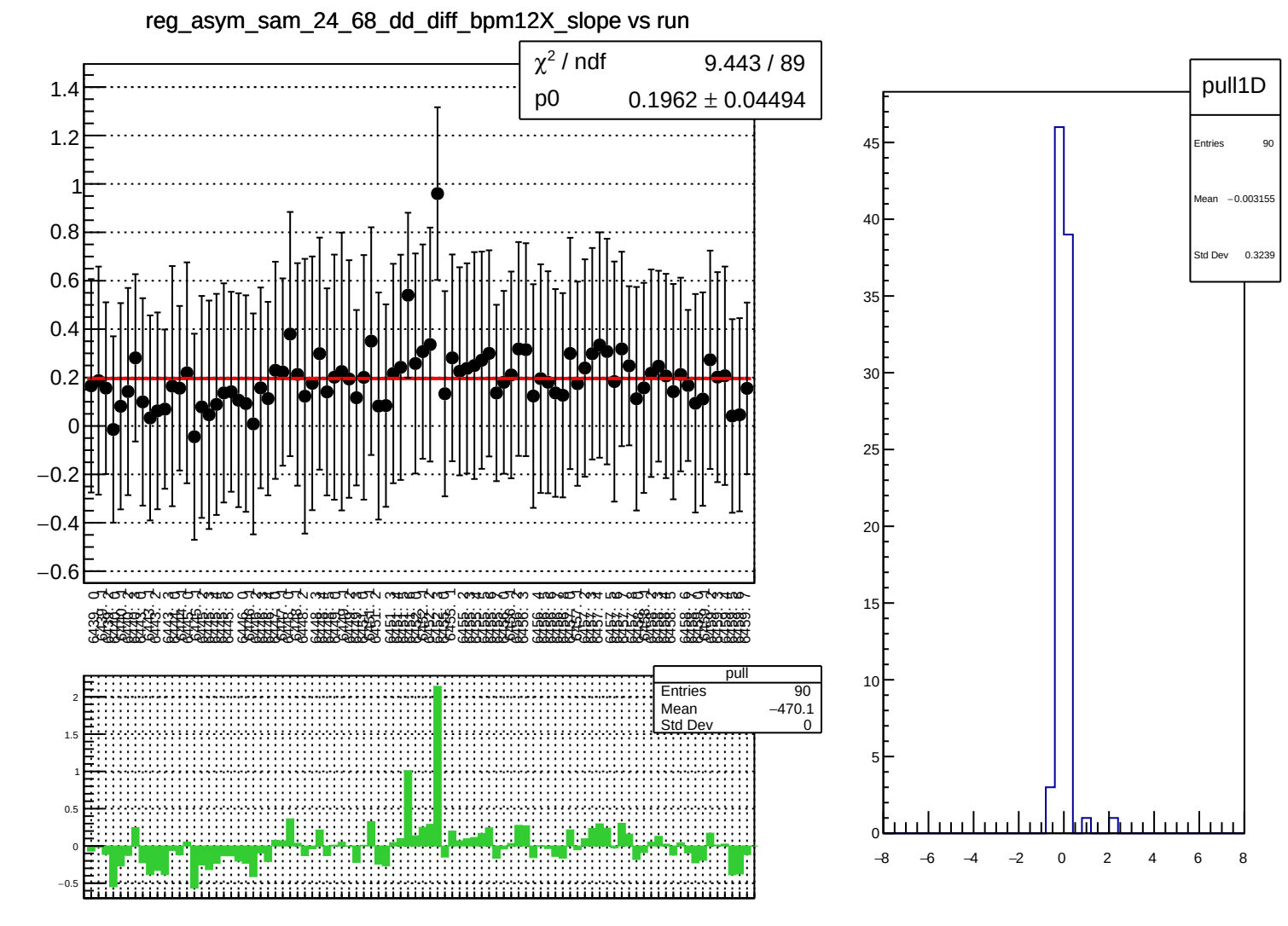

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 71.4 / 89
p0 −19.71 ± 0.9406
pull
Entries 90
Mean 230.9
Std Dev 0

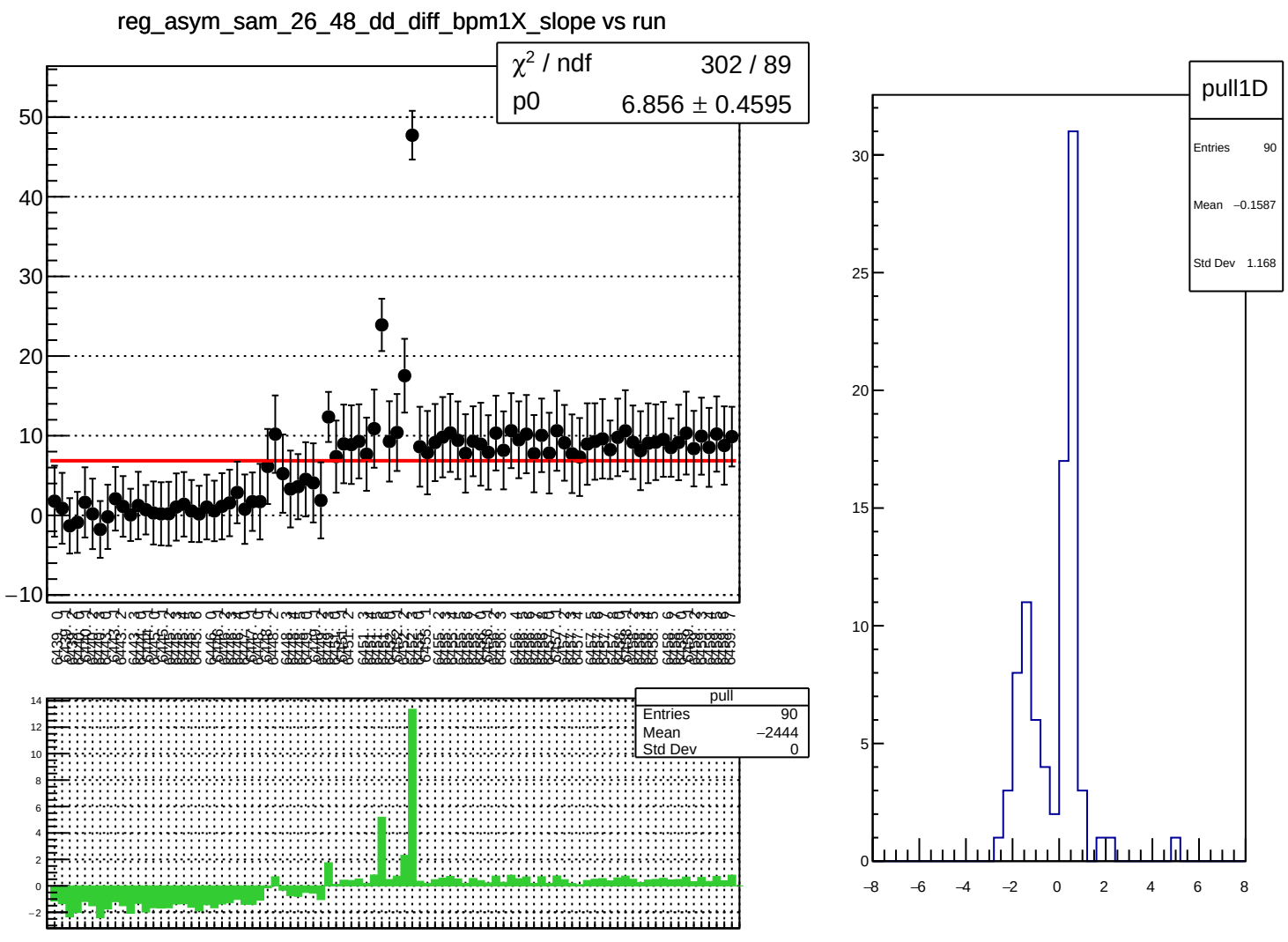

pull1D
Entries 90
Mean 0.04043
Std Dev 0.8898

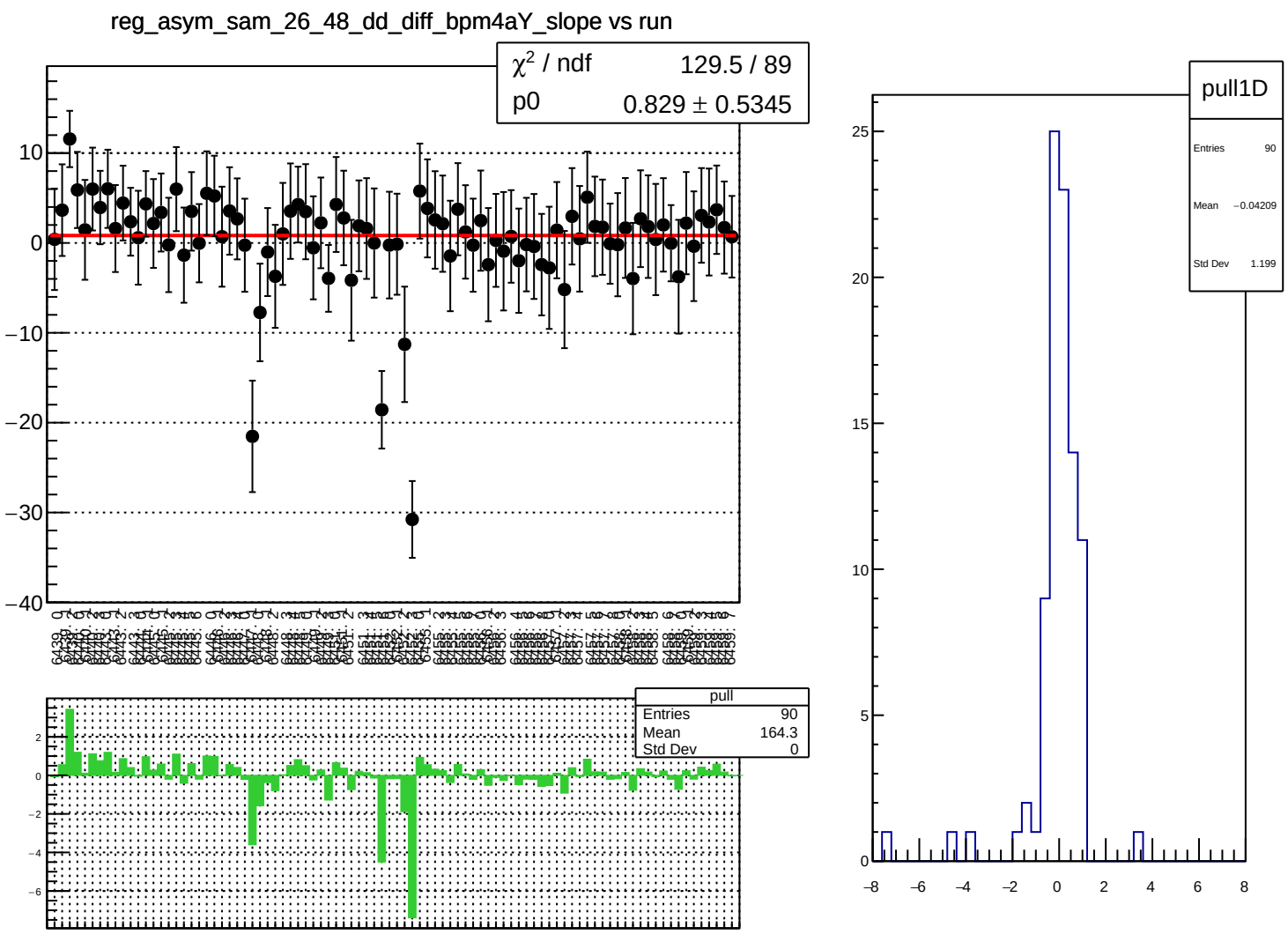

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 31.13 / 89
p0 −10.38 ± 1.092
pull
Entries 90
Mean −3.603
Std Dev 0
pull1D
Entries 90
Mean −0.04164
Std Dev 0.5866

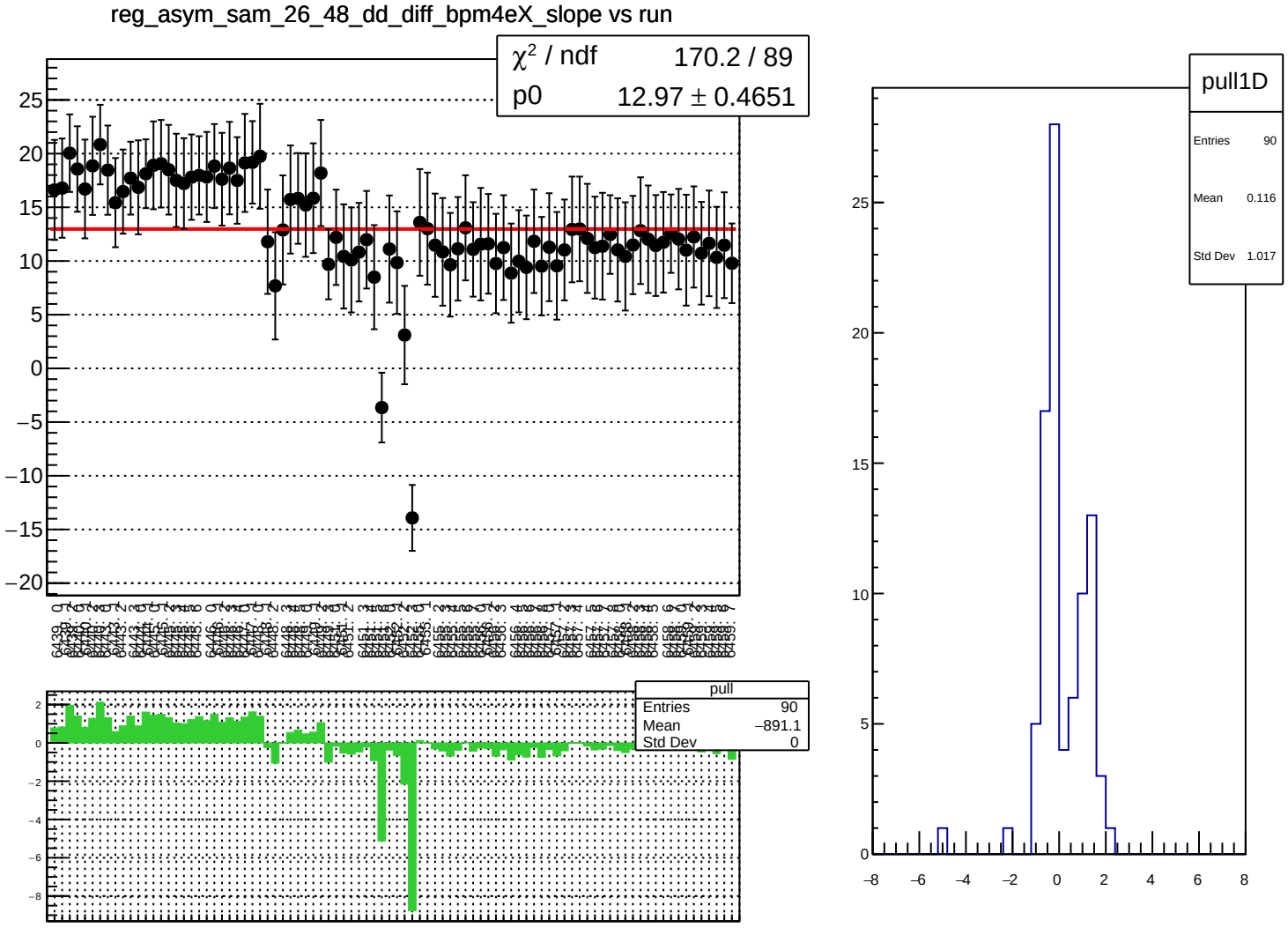

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 38.91 / 89
p0 −93.27 ± 0.9466
pull
Entries 90
Mean 359.5
Std Dev 0
pull1D
Entries 90
Mean −0.02078
Std Dev 0.6572

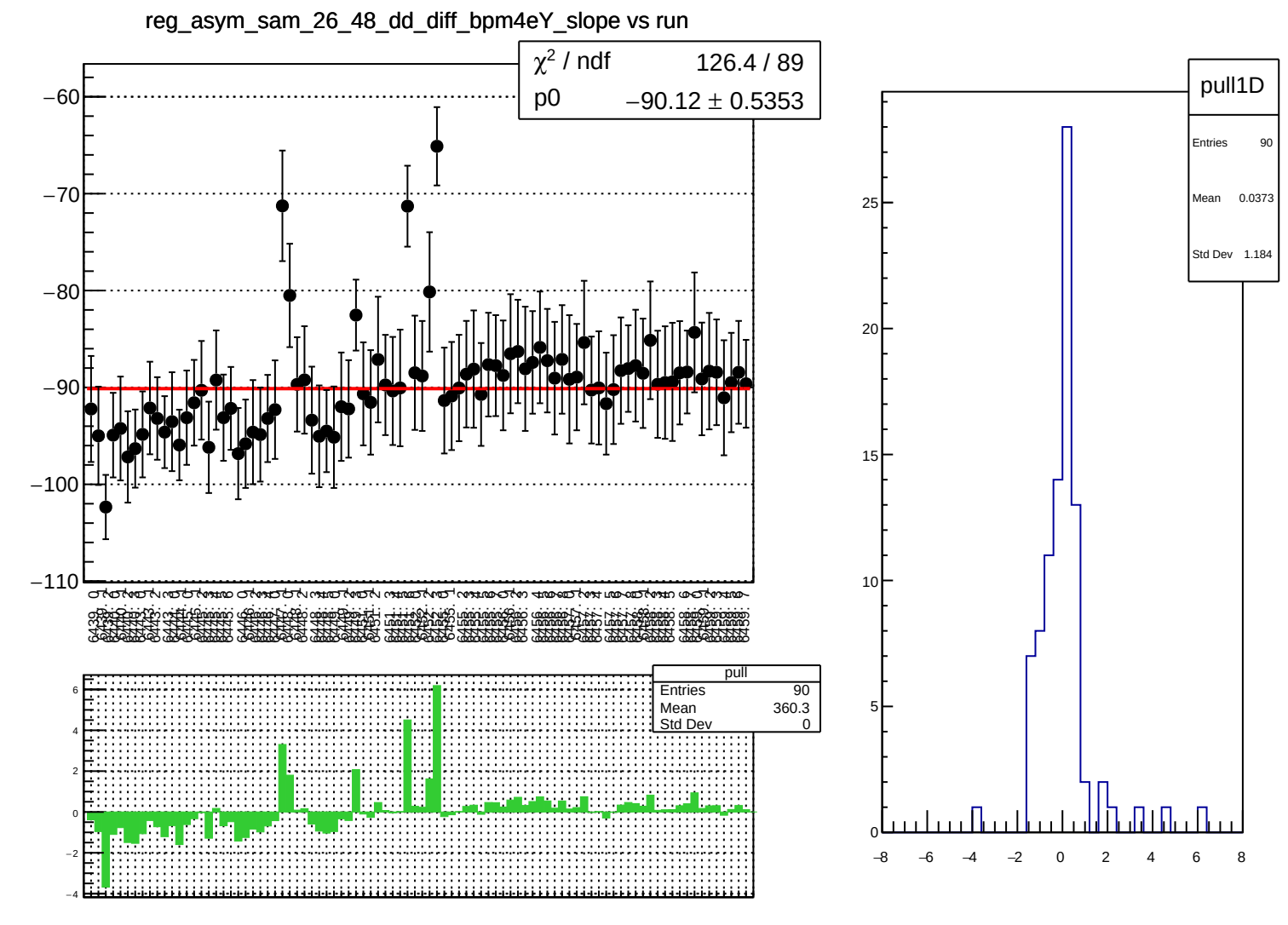

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 28.8 / 89
p0 −2.465 ± 1.096
pull
Entries 90
Mean −45.15
Std Dev 0
pull1D
Entries 90
Mean 0.0429
Std Dev 0.564

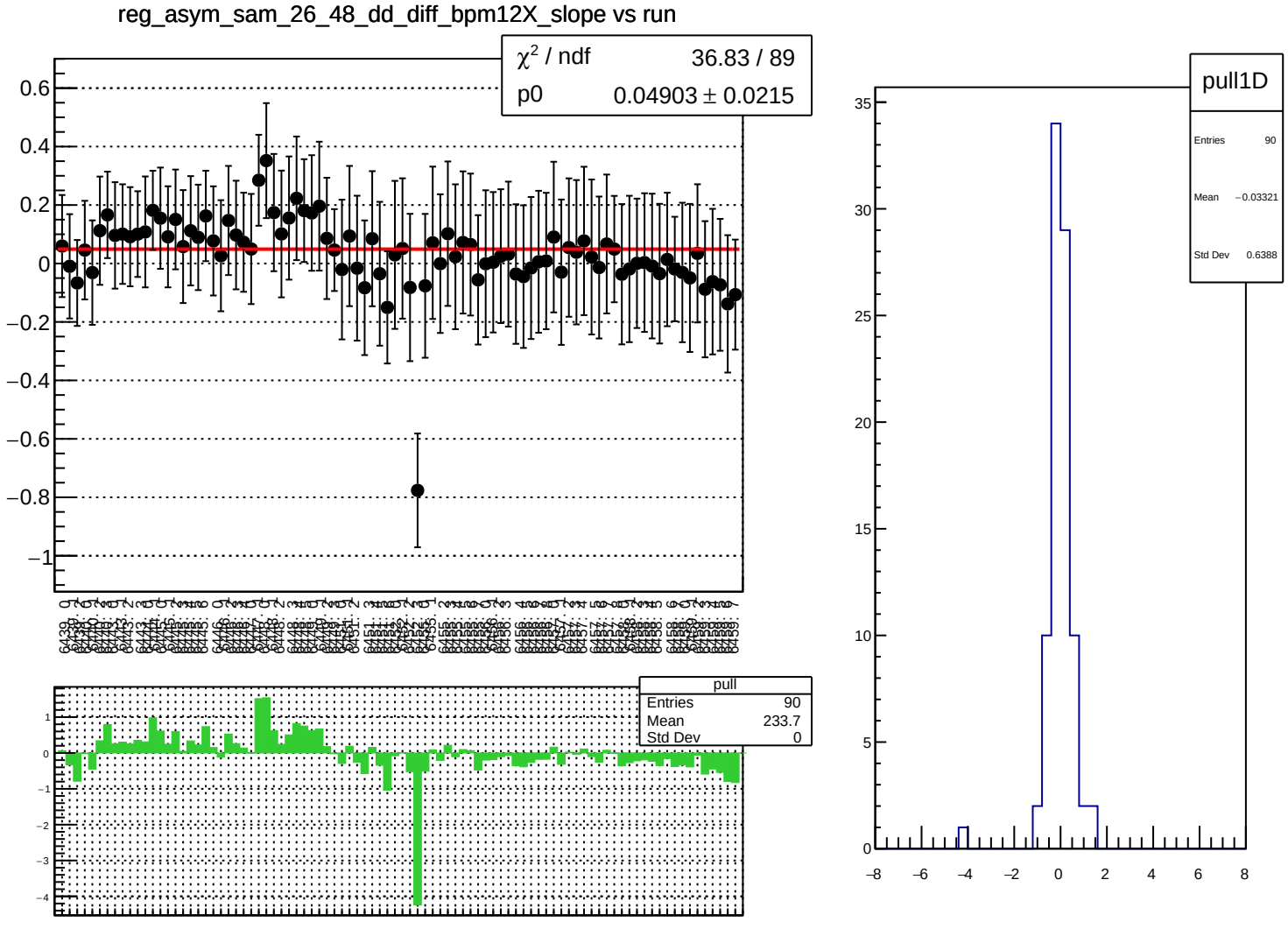

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 9.443 / 89
p0 0.1962 ± 0.04494
pull
Entries 90
Mean −470.1
Std Dev 0
pull1D
Entries 90
Mean −0.003155
Std Dev 0.3239

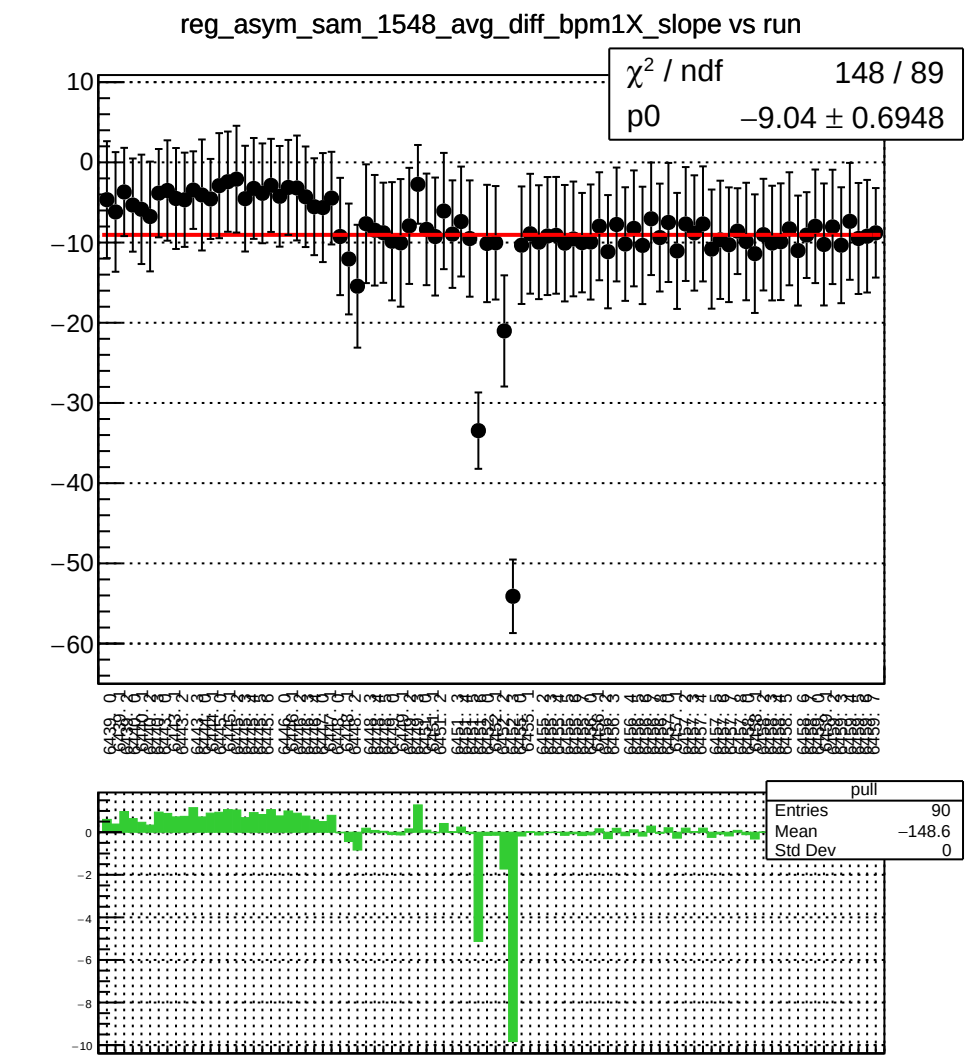

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 302 / 89
p0 6.856 ± 0.4595
pull
Entries 90
Mean −2444
Std Dev 0
pull1D
Entries 90
Mean −0.1587
Std Dev 1.168

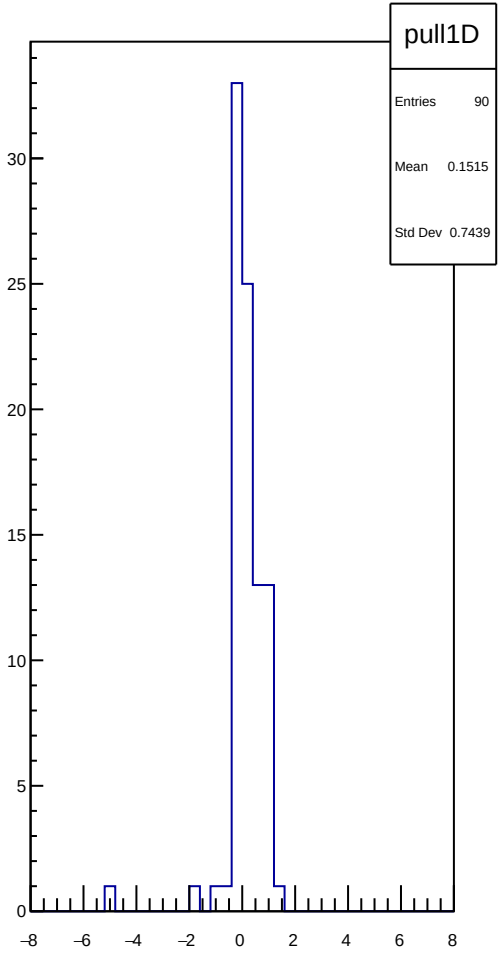

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 129.5 / 89
p0 0.829 ± 0.5345
pull
Entries 90
Mean 164.3
Std Dev 0
pull1D
Entries 90
Mean −0.04209
Std Dev 1.199

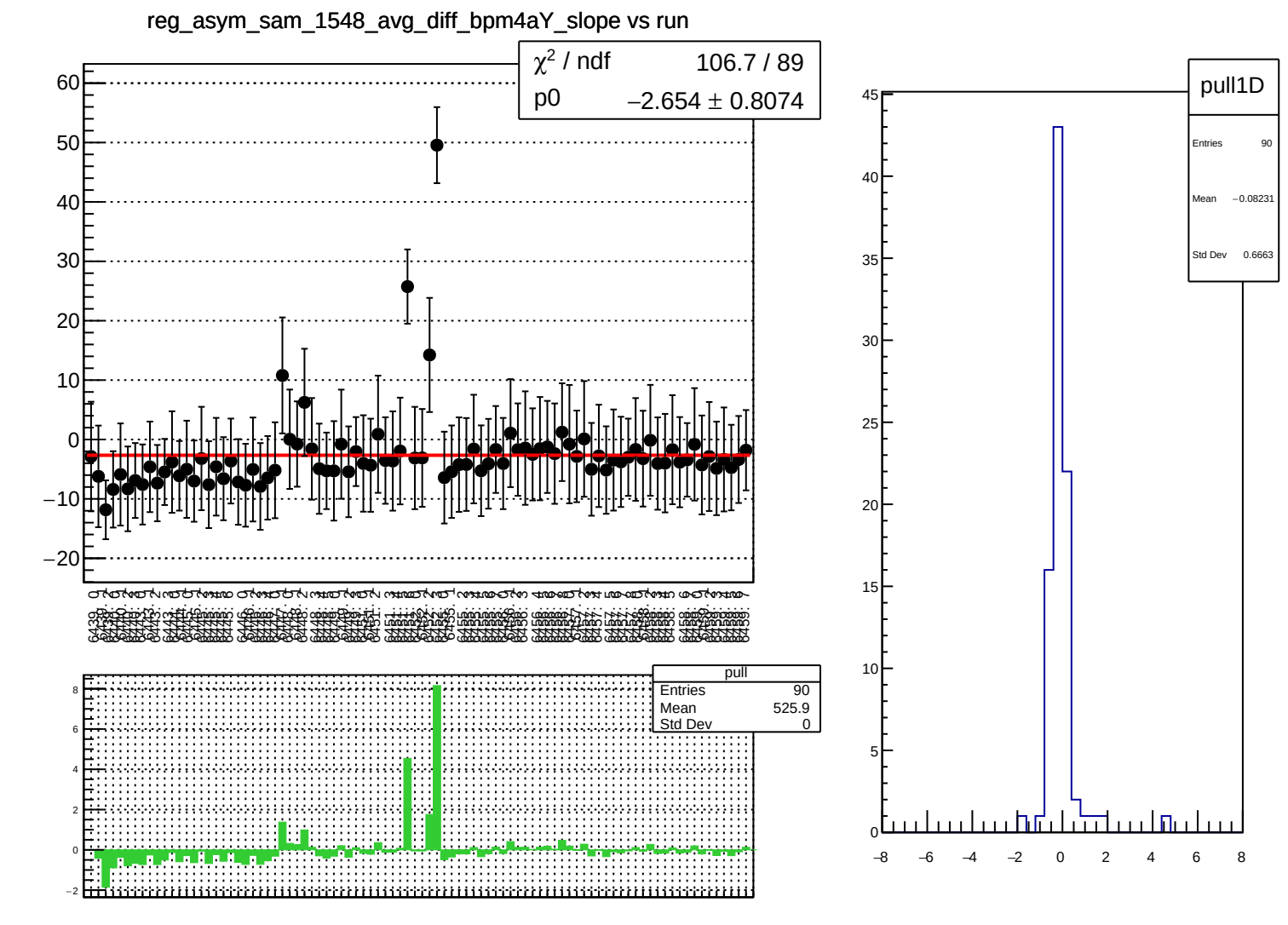

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 170.2 / 89
p0 12.97 ± 0.4651
pull
Entries 90
Mean −891.1
Std Dev 0
pull1D
Entries 90
Mean 0.116
Std Dev 1.017

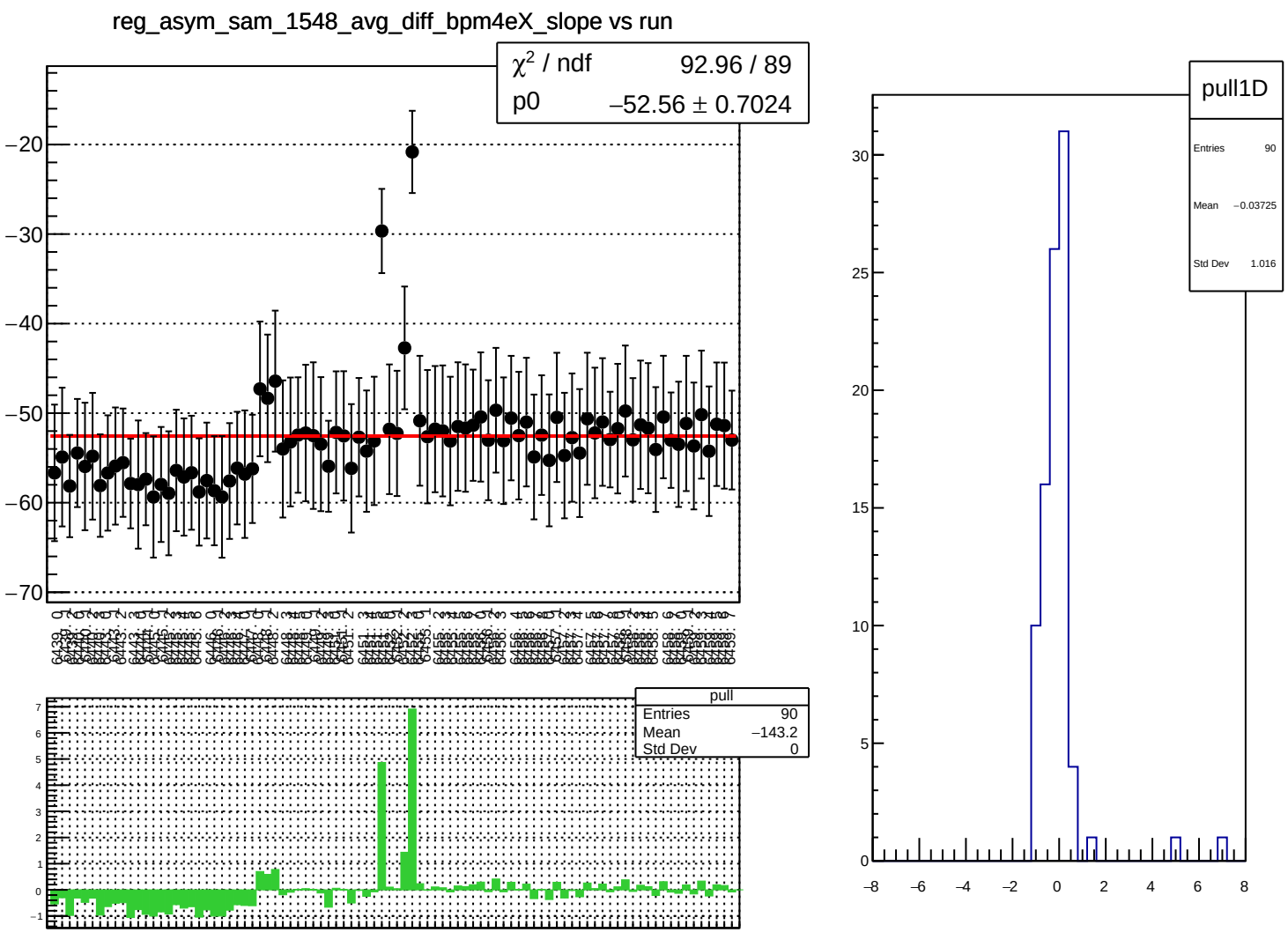

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 126.4 / 89
p0 −90.12 ± 0.5353
pull
Entries 90
Mean 360.3
Std Dev 0
pull1D
Entries 90
Mean 0.0373
Std Dev 1.184

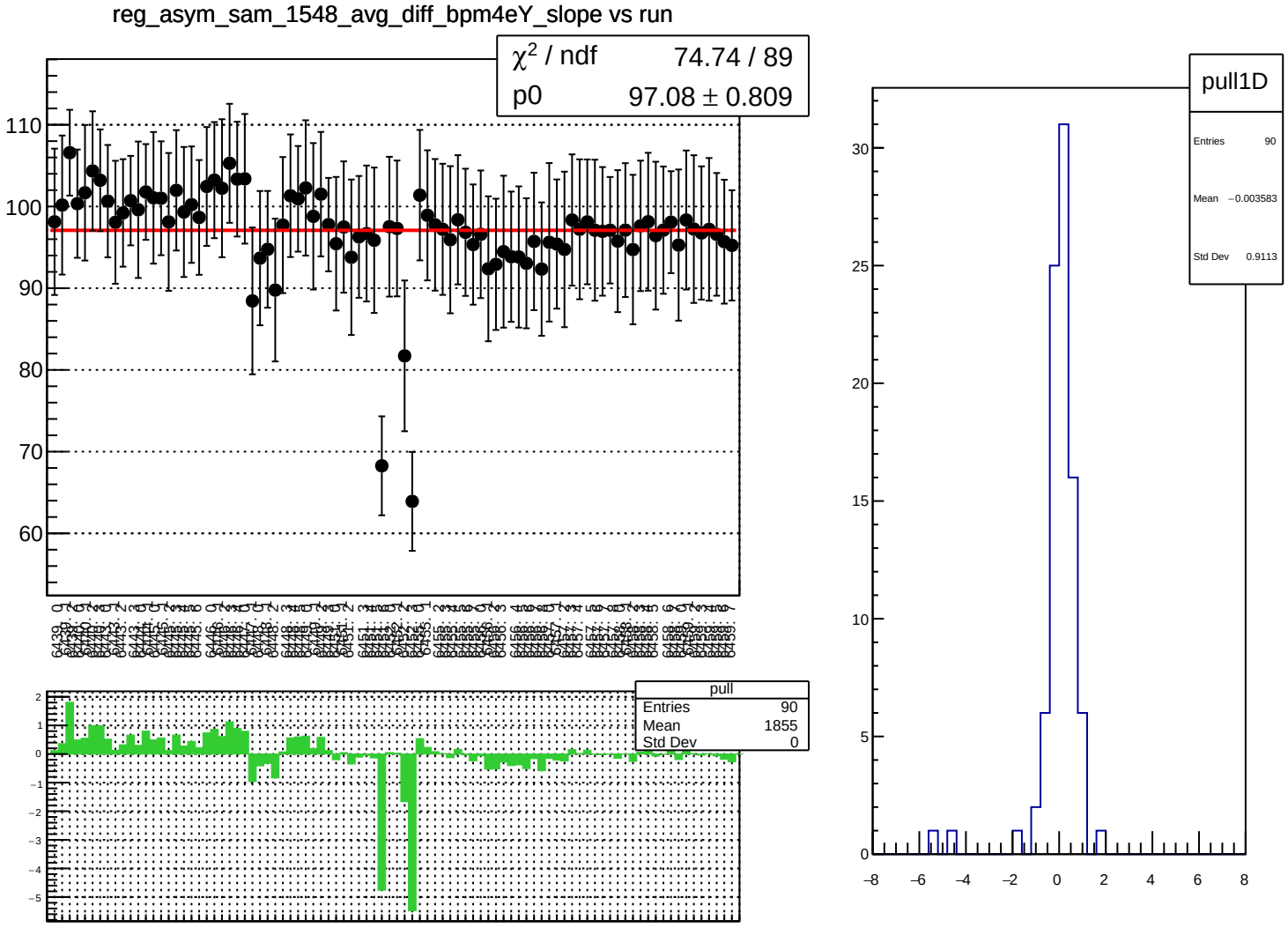

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 36.83 / 89
p0 0.04903 ± 0.0215
pull
Entries 90
Mean 233.7
Std Dev 0
pull1D
Entries 90
Mean −0.03321
Std Dev 0.6388

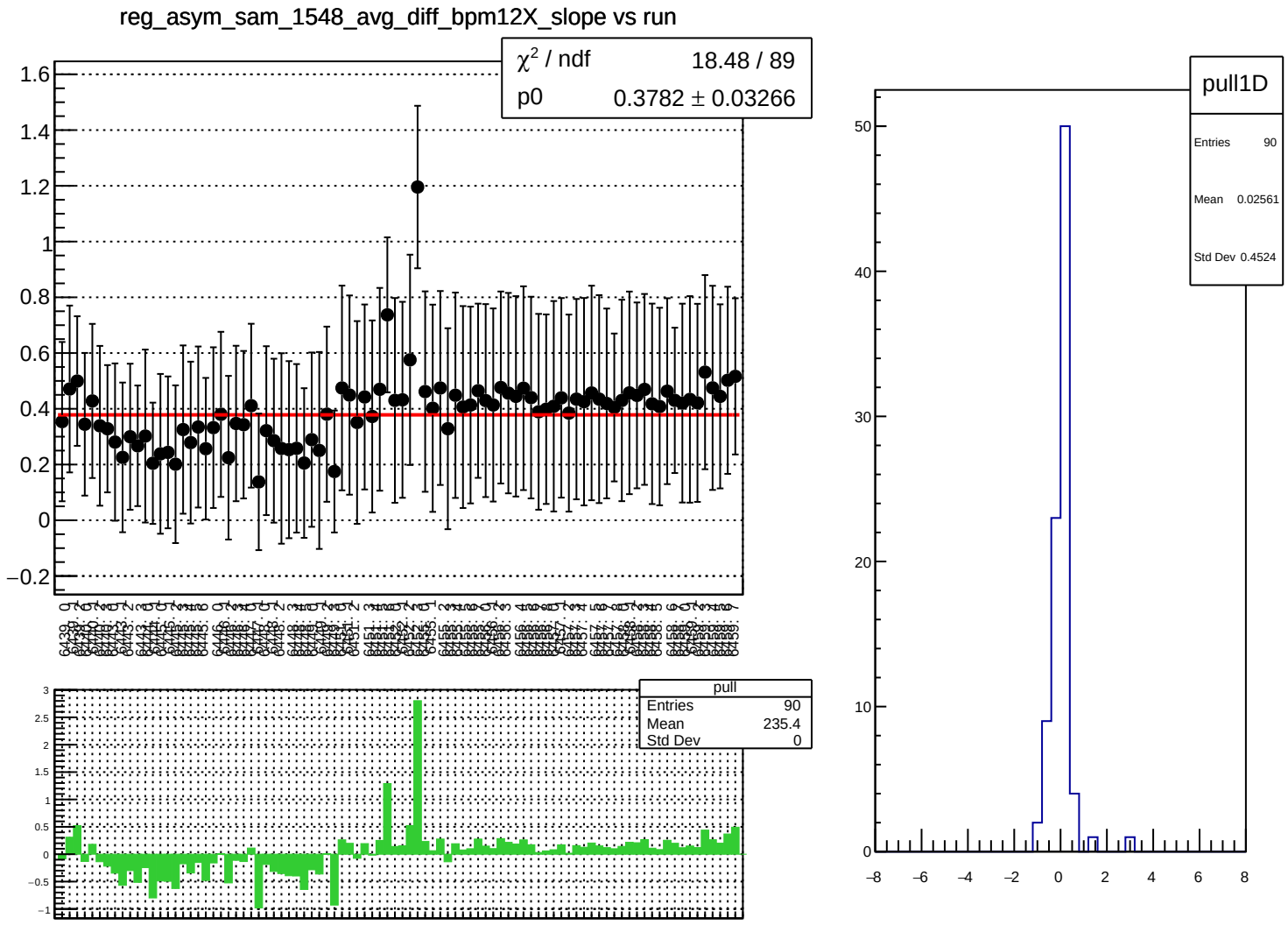

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 148 / 89
p0 −9.04 ± 0.6948
pull
Entries 90
Mean −148.6
Std Dev 0

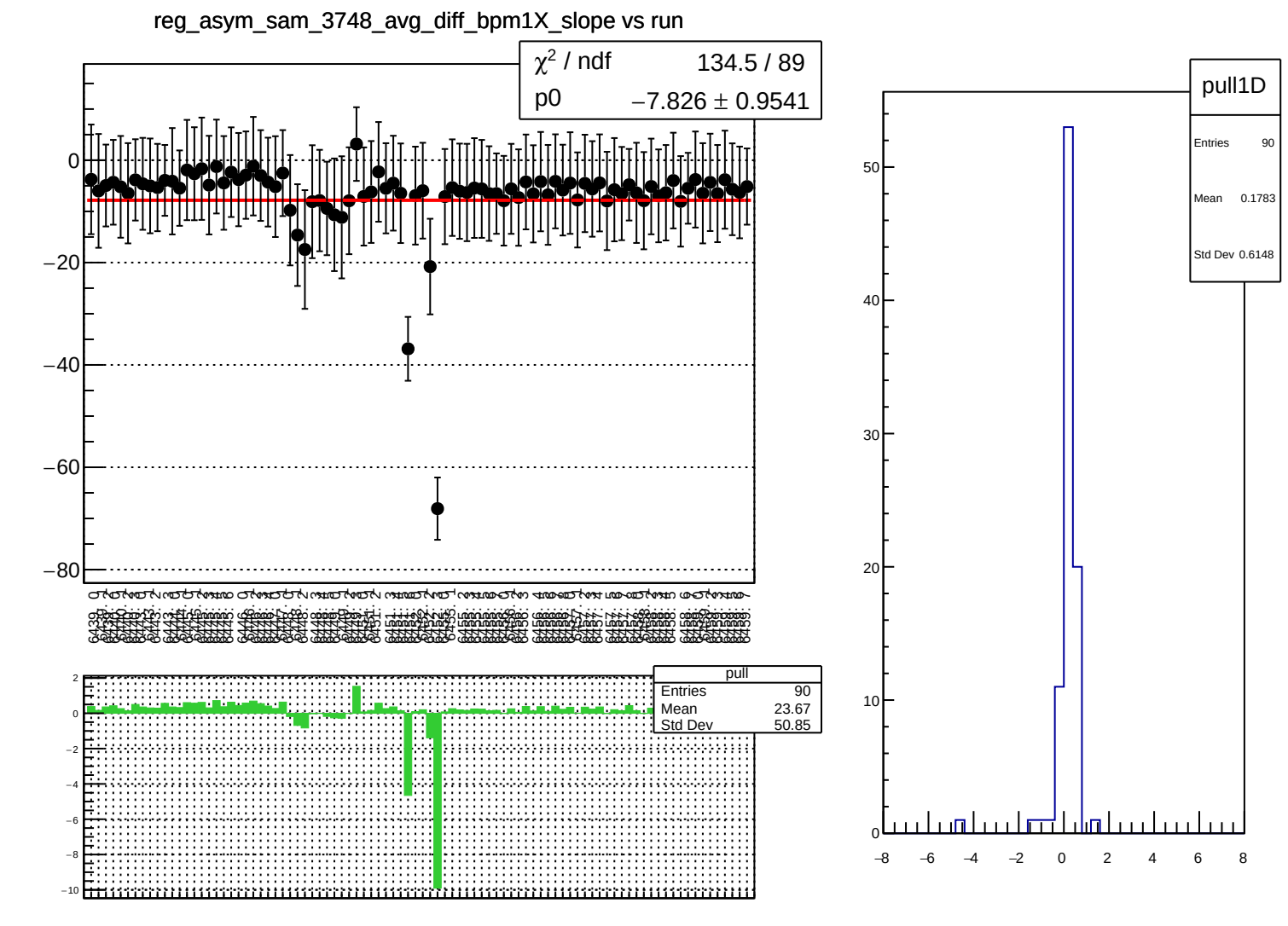

pull1D
Entries 90
Mean 0.1515
Std Dev 0.7439

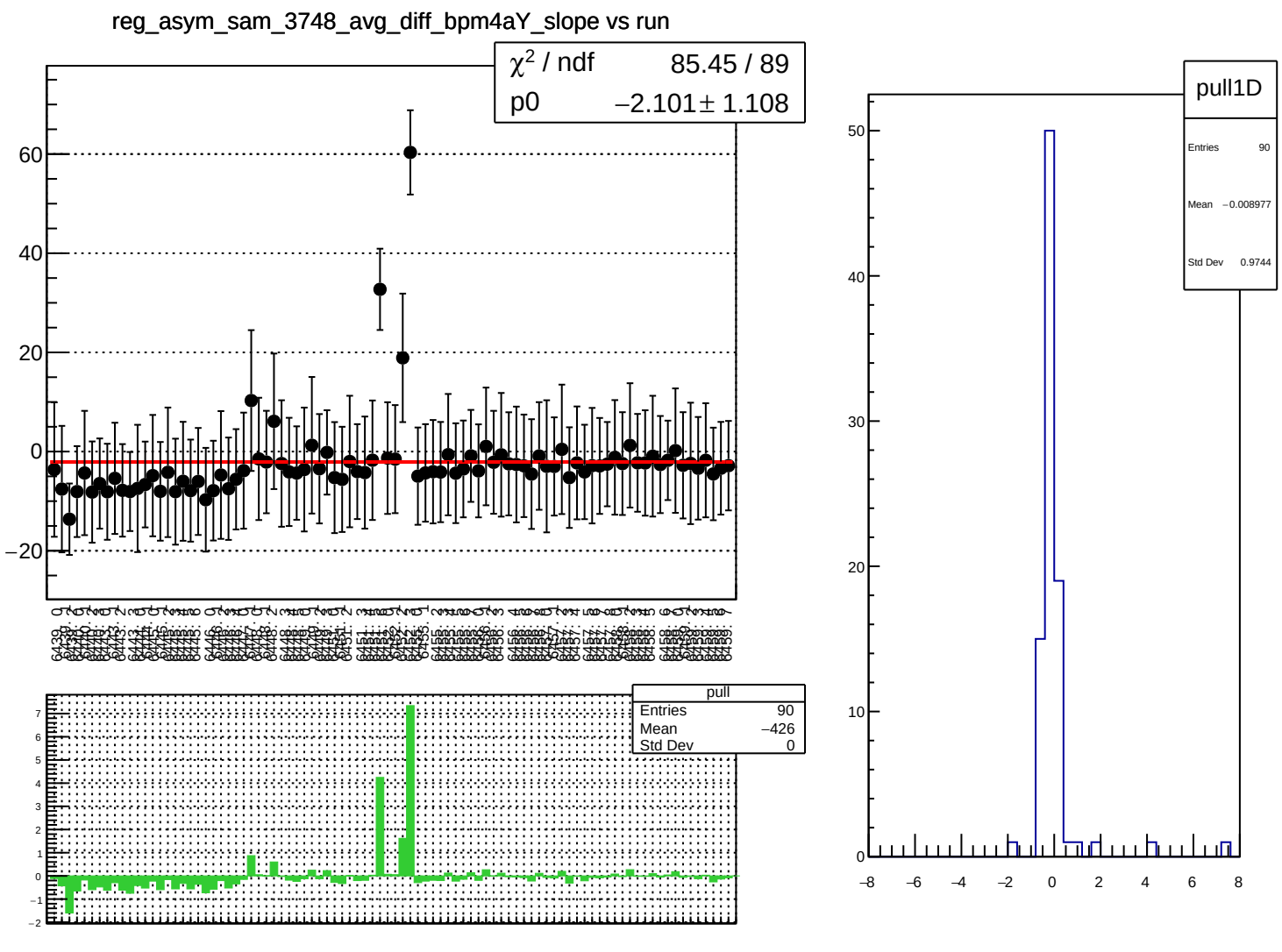

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 106.7 / 89
p0 −2.654 ± 0.8074
pull
Entries 90
Mean 525.9
Std Dev 0
pull1D
Entries 90
Mean −0.08231
Std Dev 0.6663

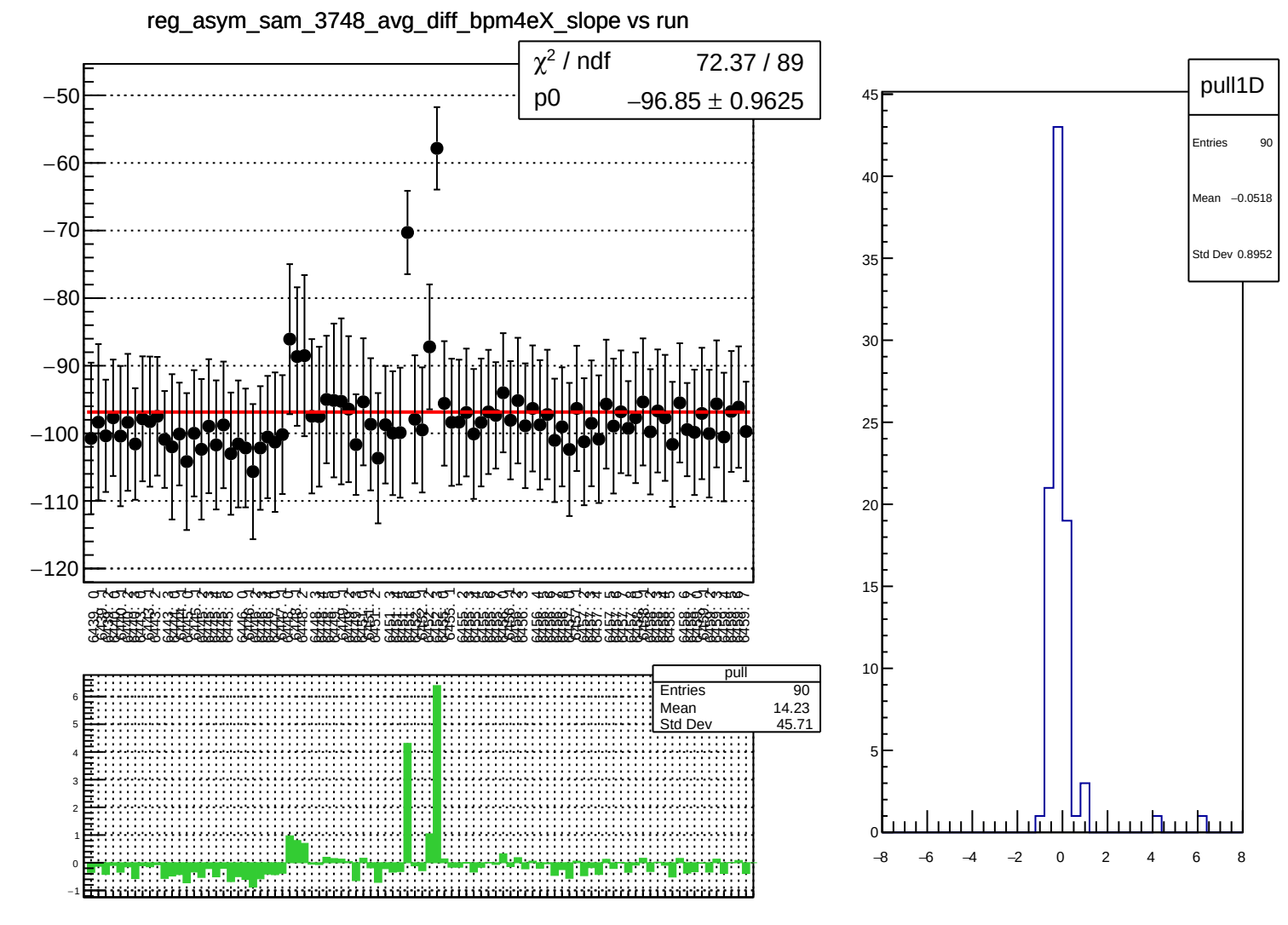

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 92.96 / 89
p0 −52.56 ± 0.7024
pull
Entries 90
Mean −143.2
Std Dev 0
pull1D
Entries 90
Mean −0.03725
Std Dev 1.016

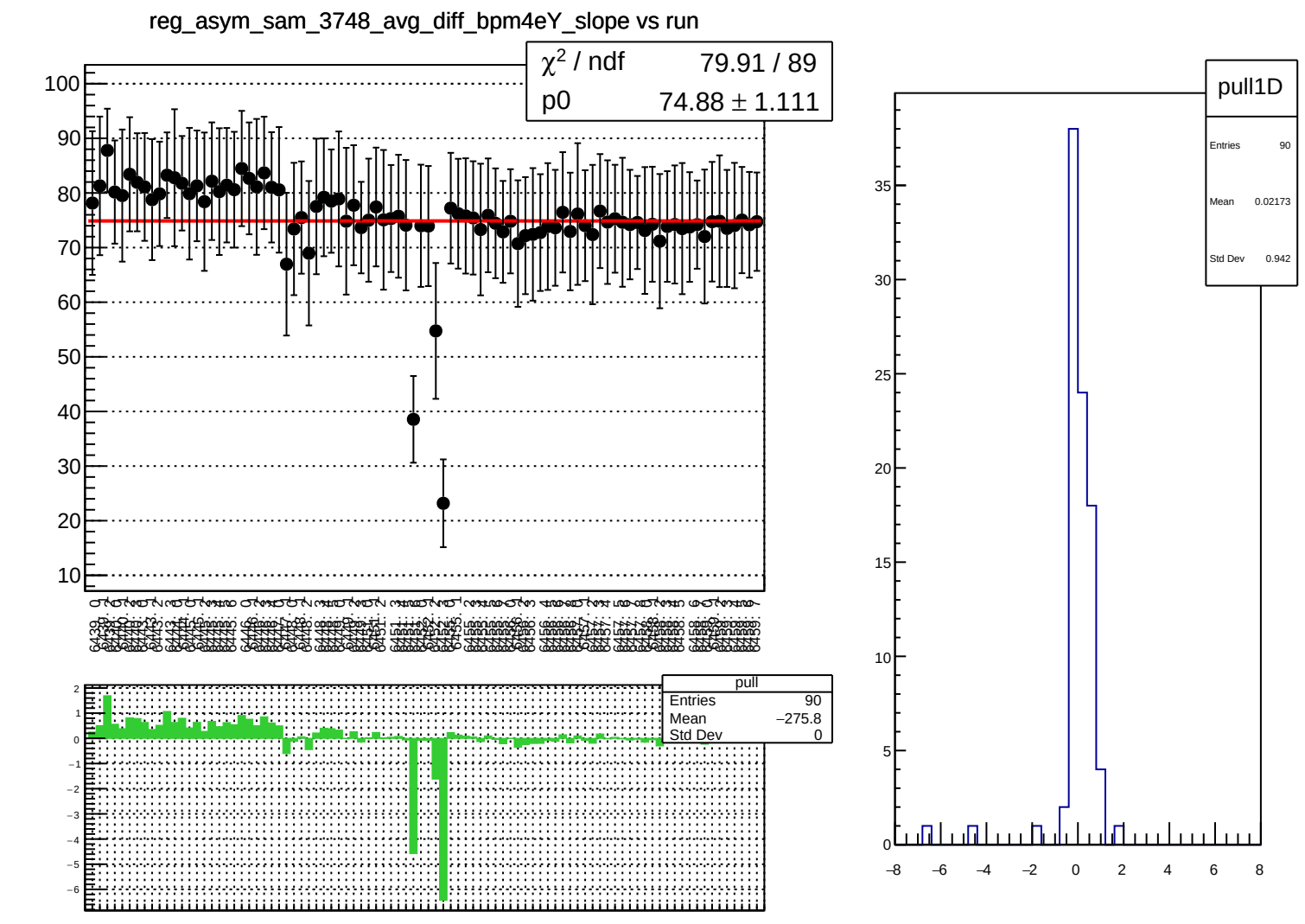

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 74.74 / 89
p0 97.08 ± 0.809
110
100
90
80
70
60
pull
Entries 90
Mean 1855
Std Dev 0
2
1
0
−1
−2
−3
−4
−5
pull1D
Entries 90
Mean −0.003583
Std Dev 0.9113
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

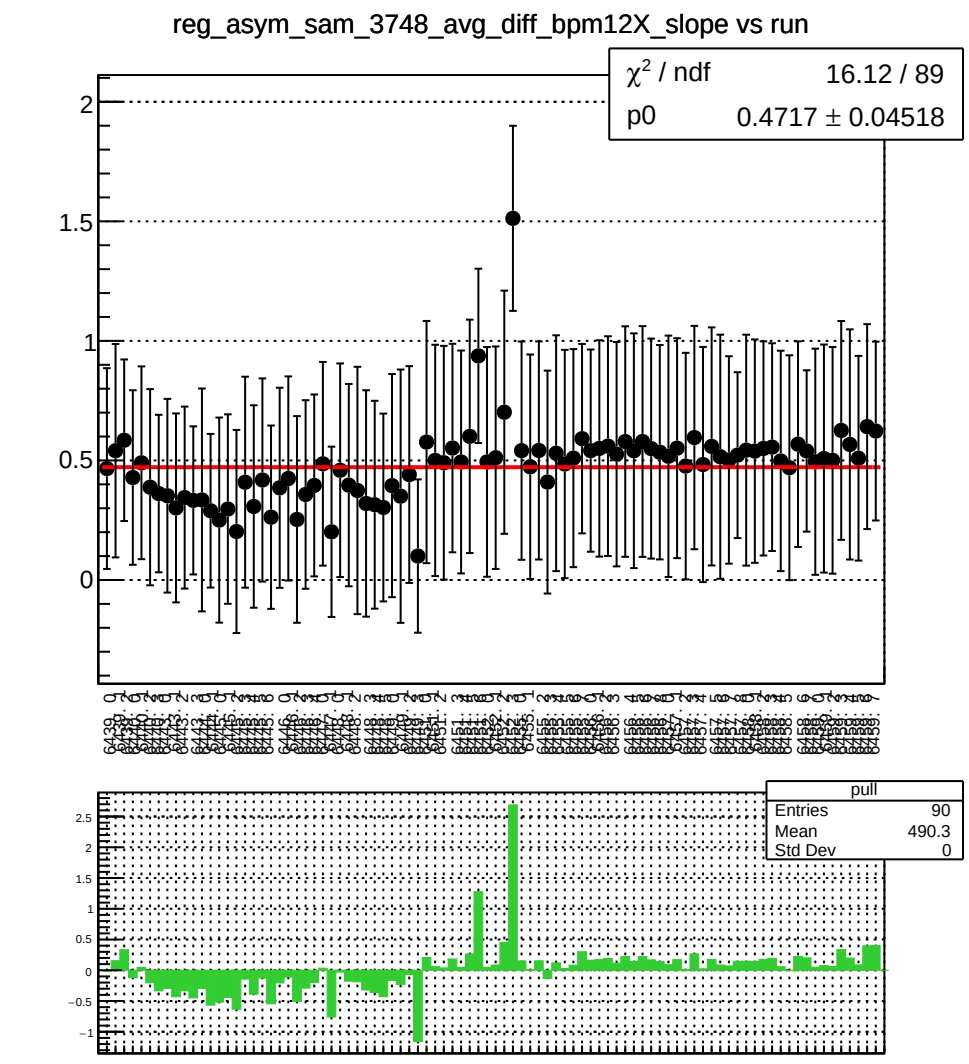

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 18.48 / 89
p0 0.3782 ± 0.03266
pull
Entries 90
Mean 235.4
Std Dev 0
pull1D
Entries 90
Mean 0.02561
Std Dev 0.4524

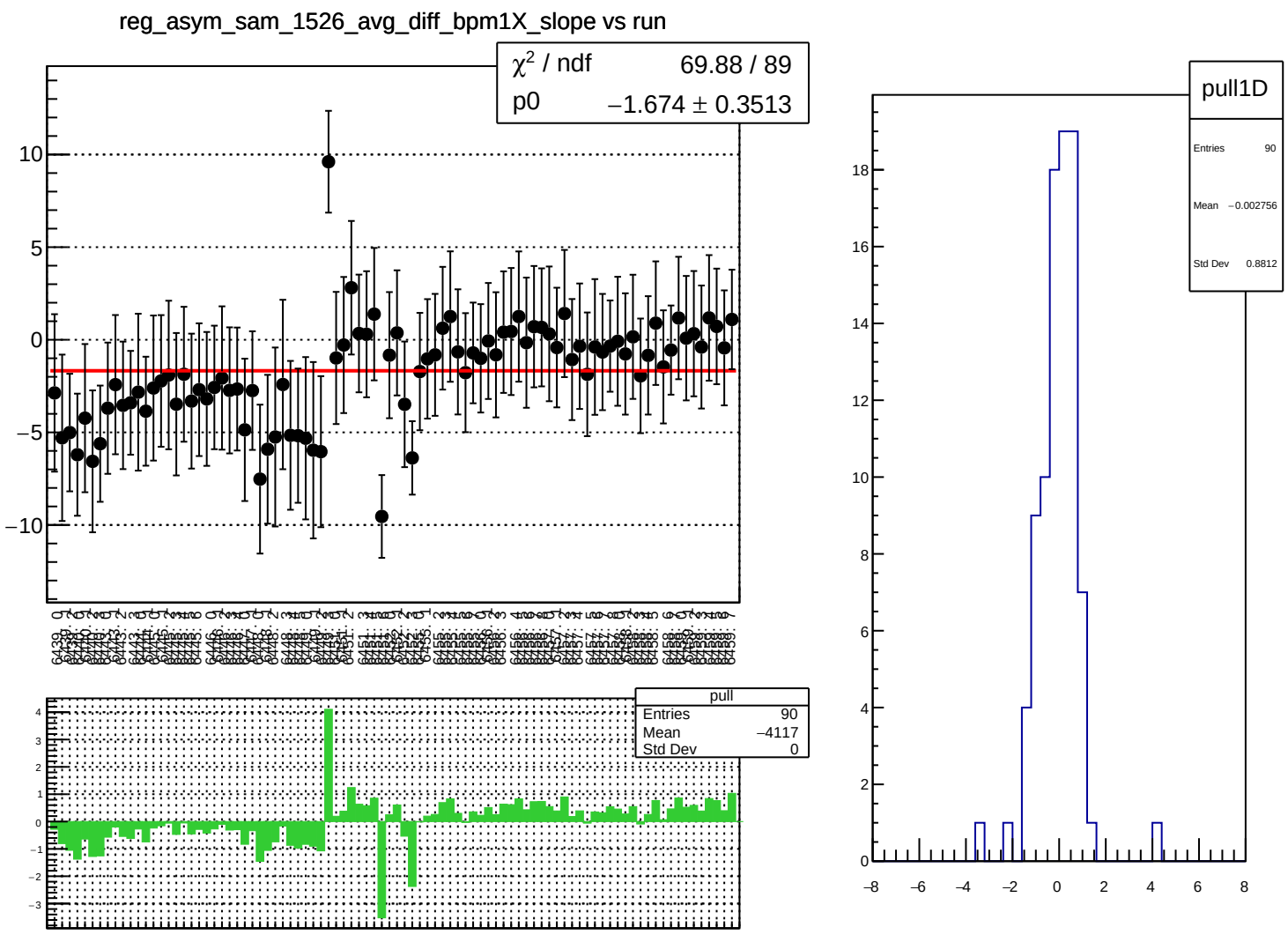

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 134.5 / 89
p0 −7.826 ± 0.9541
pull
Entries 90
Mean 23.67
Std Dev 50.85
pull1D
Entries 90
Mean 0.1783
Std Dev 0.6148

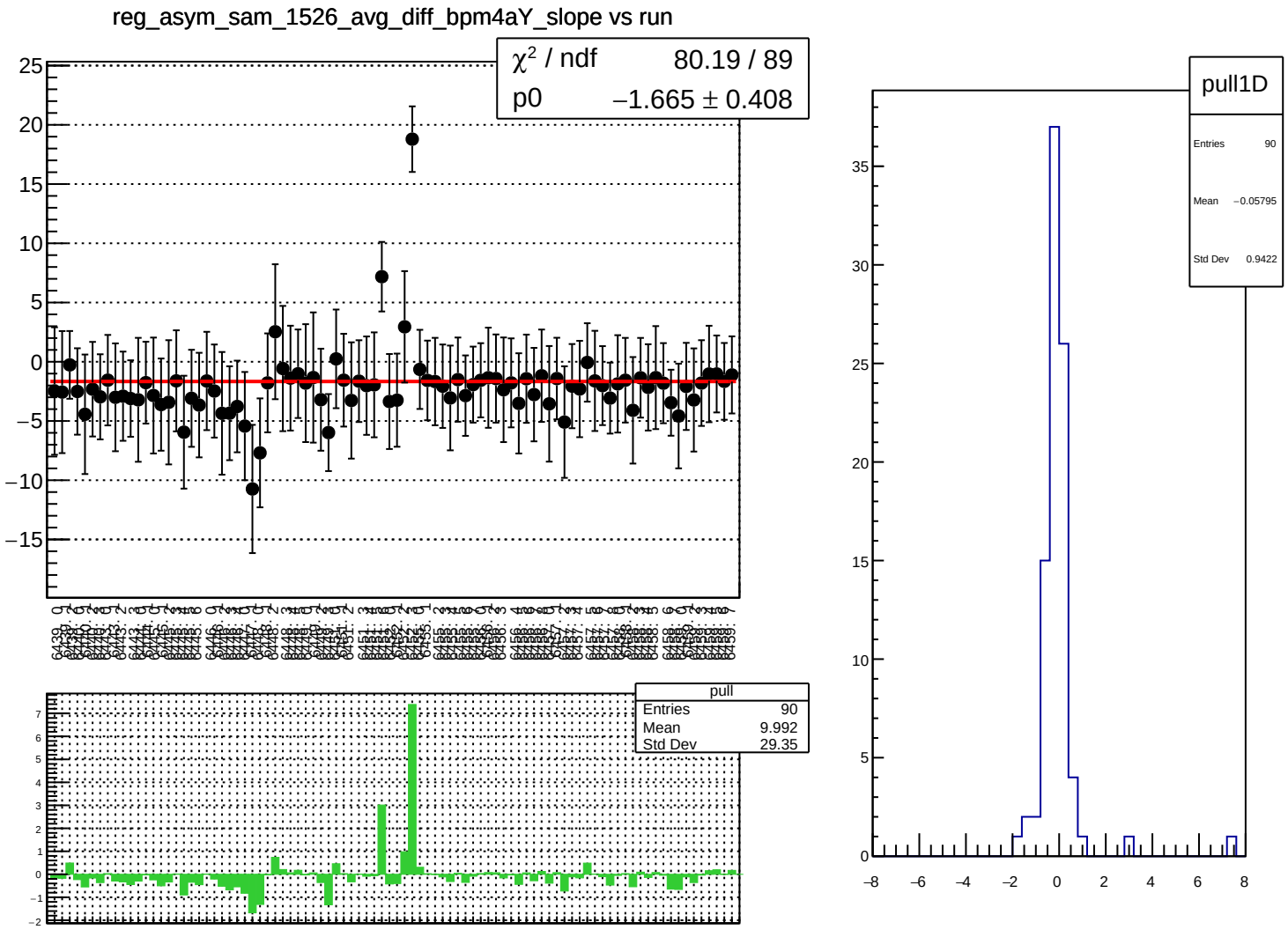

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 85.45 / 89
p0 −2.101 ± 1.108
pull
Entries 90
Mean −426
Std Dev 0
pull1D
Entries 90
Mean −0.008977
Std Dev 0.9744

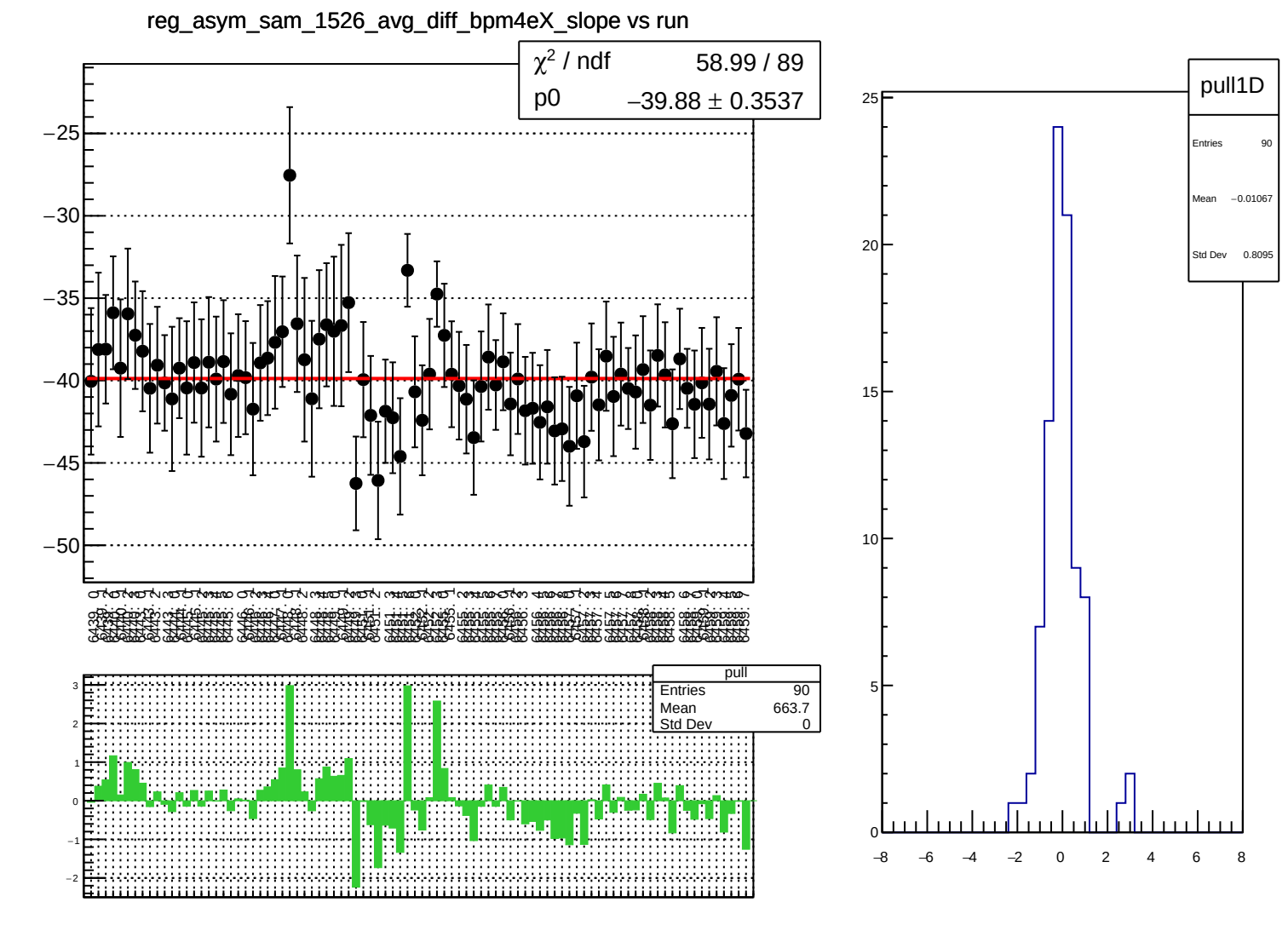

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 72.37 / 89
p0 −96.85 ± 0.9625
pull
Entries 90
Mean 14.23
Std Dev 45.71
pull1D
Entries 90
Mean −0.0518
Std Dev 0.8952

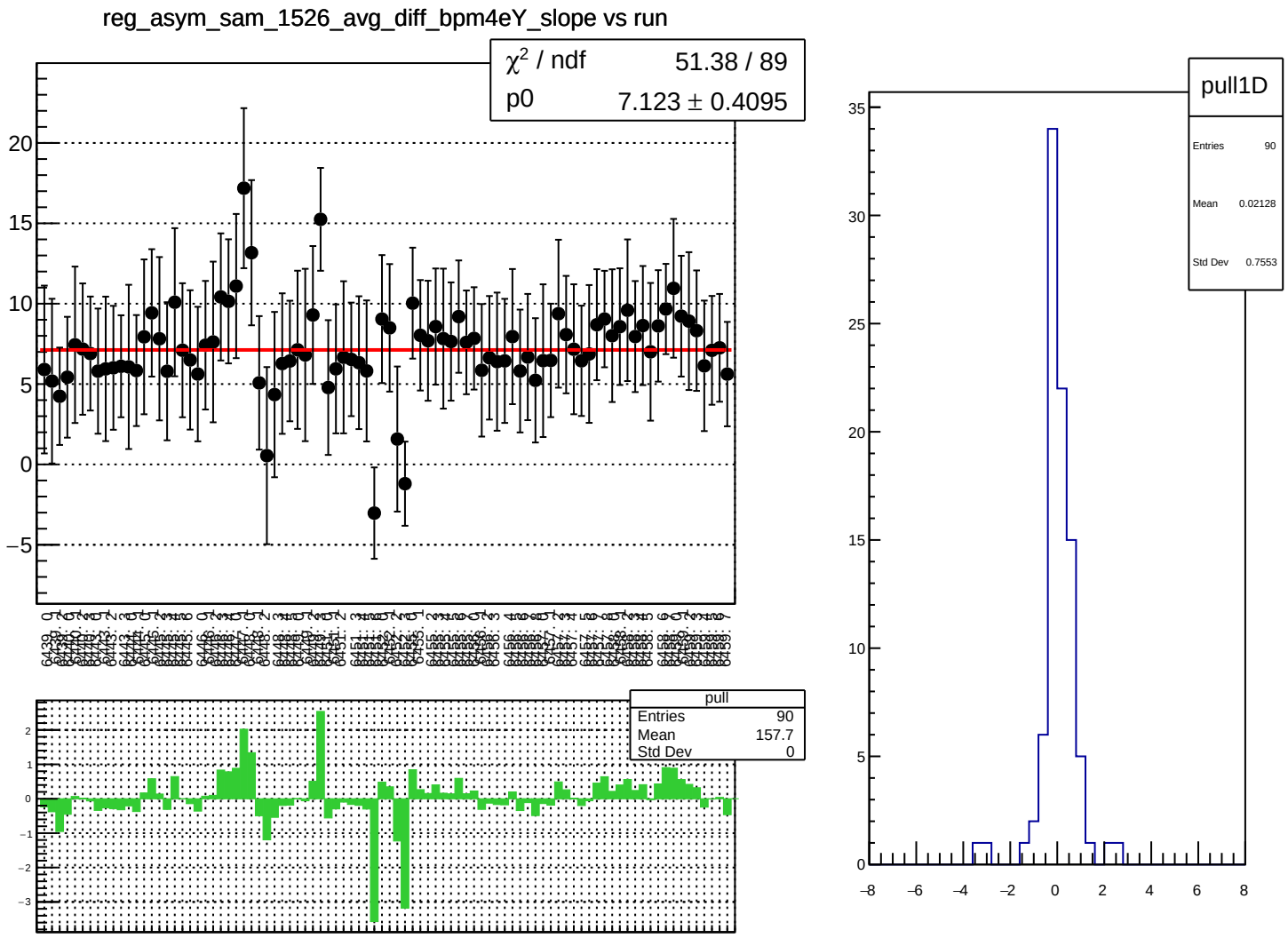

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 79.91 / 89
p0 74.88 ± 1.111
pull
Entries 90
Mean −275.8
Std Dev 0
pull1D
Entries 90
Mean 0.02173
Std Dev 0.942

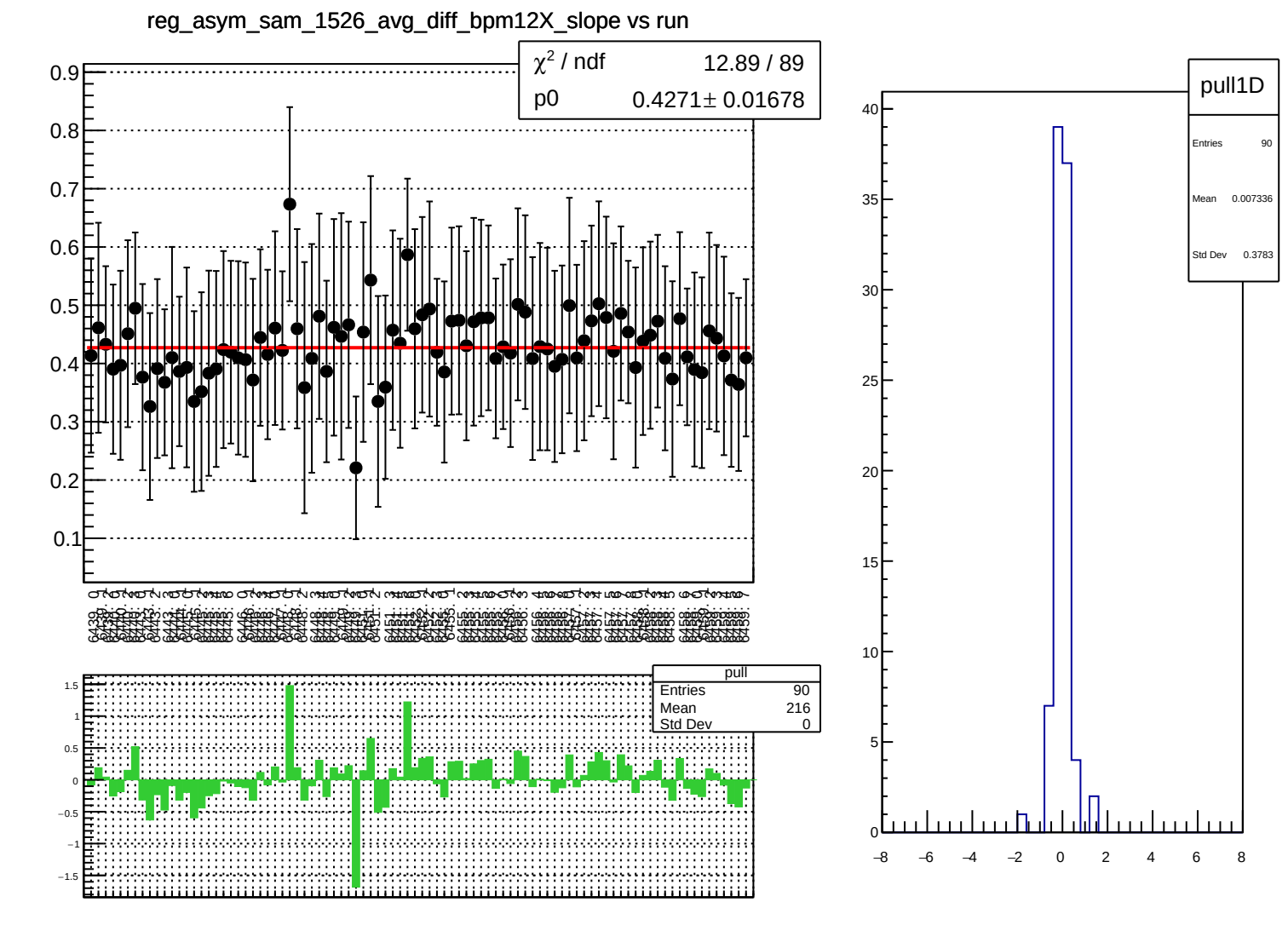

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 16.12 / 89
p0 0.4717 ± 0.04518
pull
Entries 90
Mean 490.3
Std Dev 0
pull1D
Entries 90
Mean 0.01016
Std Dev 0.4231

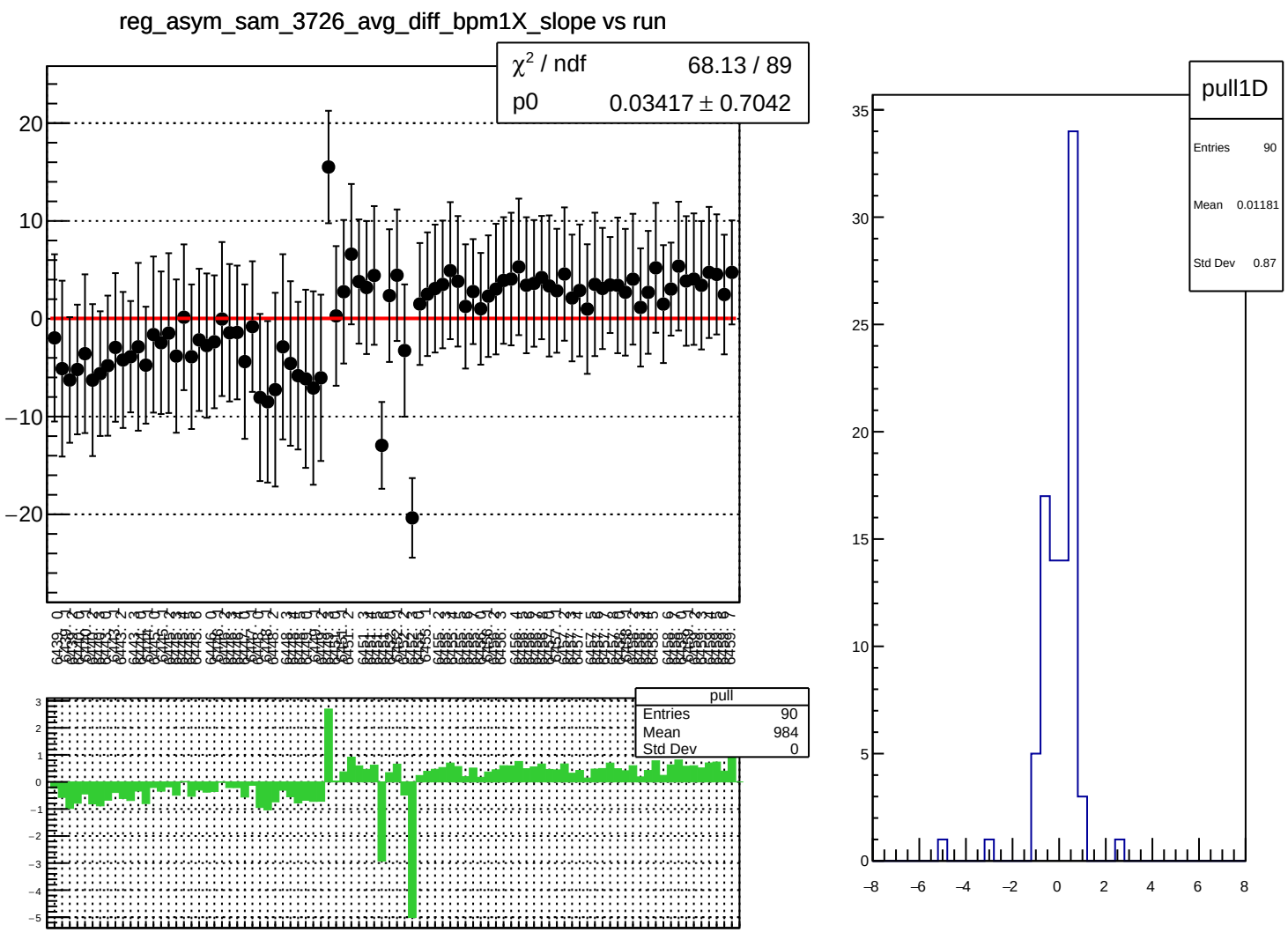

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 69.88 / 89
p0 −1.674 ± 0.3513
pull
Entries 90
Mean −4117
Std Dev 0
pull1D
Entries 90
Mean −0.002756
Std Dev 0.8812

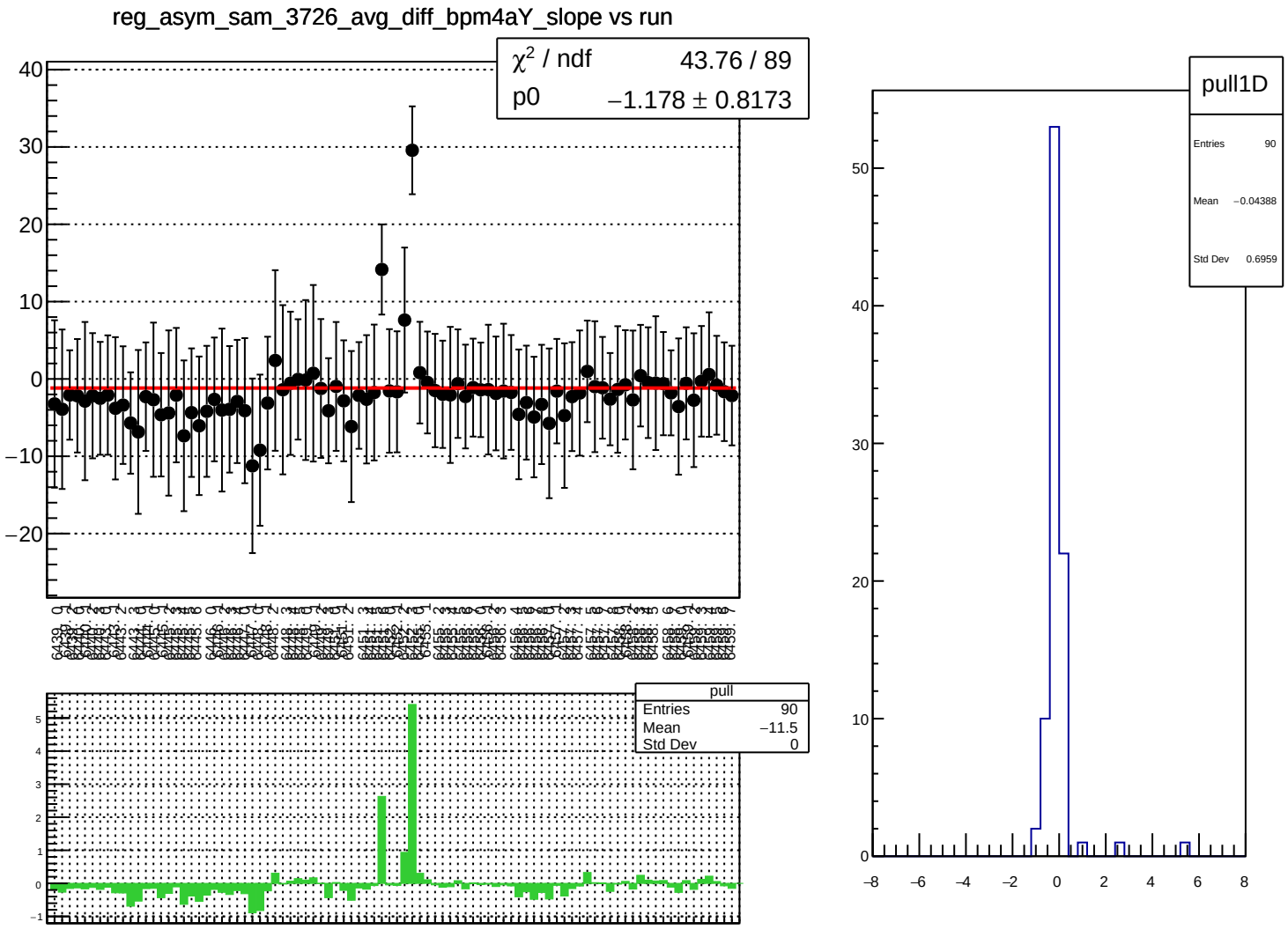

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 80.19 / 89
p0 −1.665 ± 0.408
pull
Entries 90
Mean 9.992
Std Dev 29.35
pull1D
Entries 90
Mean −0.05795
Std Dev 0.9422

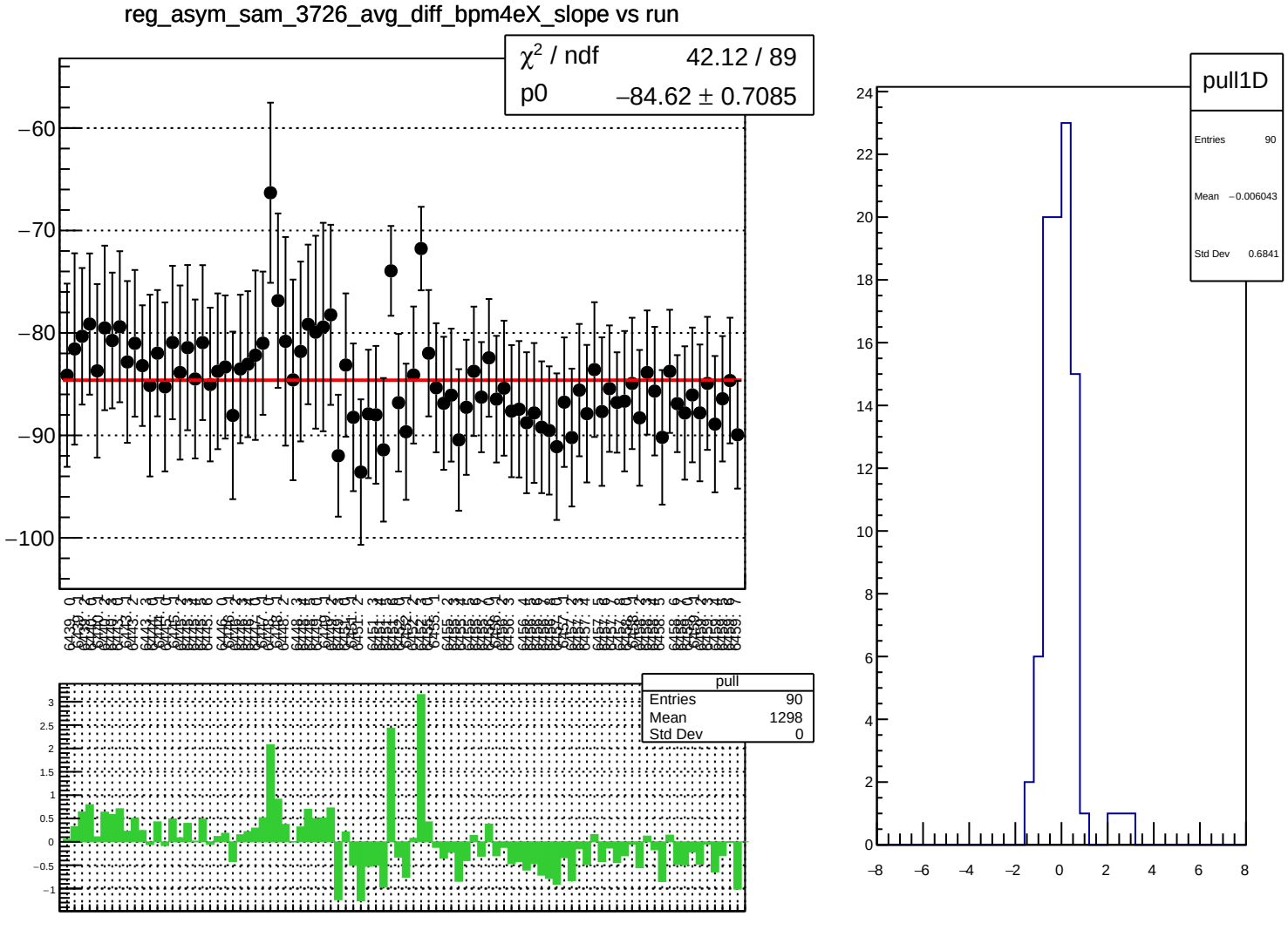

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 58.99 / 89
p0 −39.88 ± 0.3537
pull
Entries 90
Mean 663.7
Std Dev 0
pull1D
Entries 90
Mean −0.01067
Std Dev 0.8095

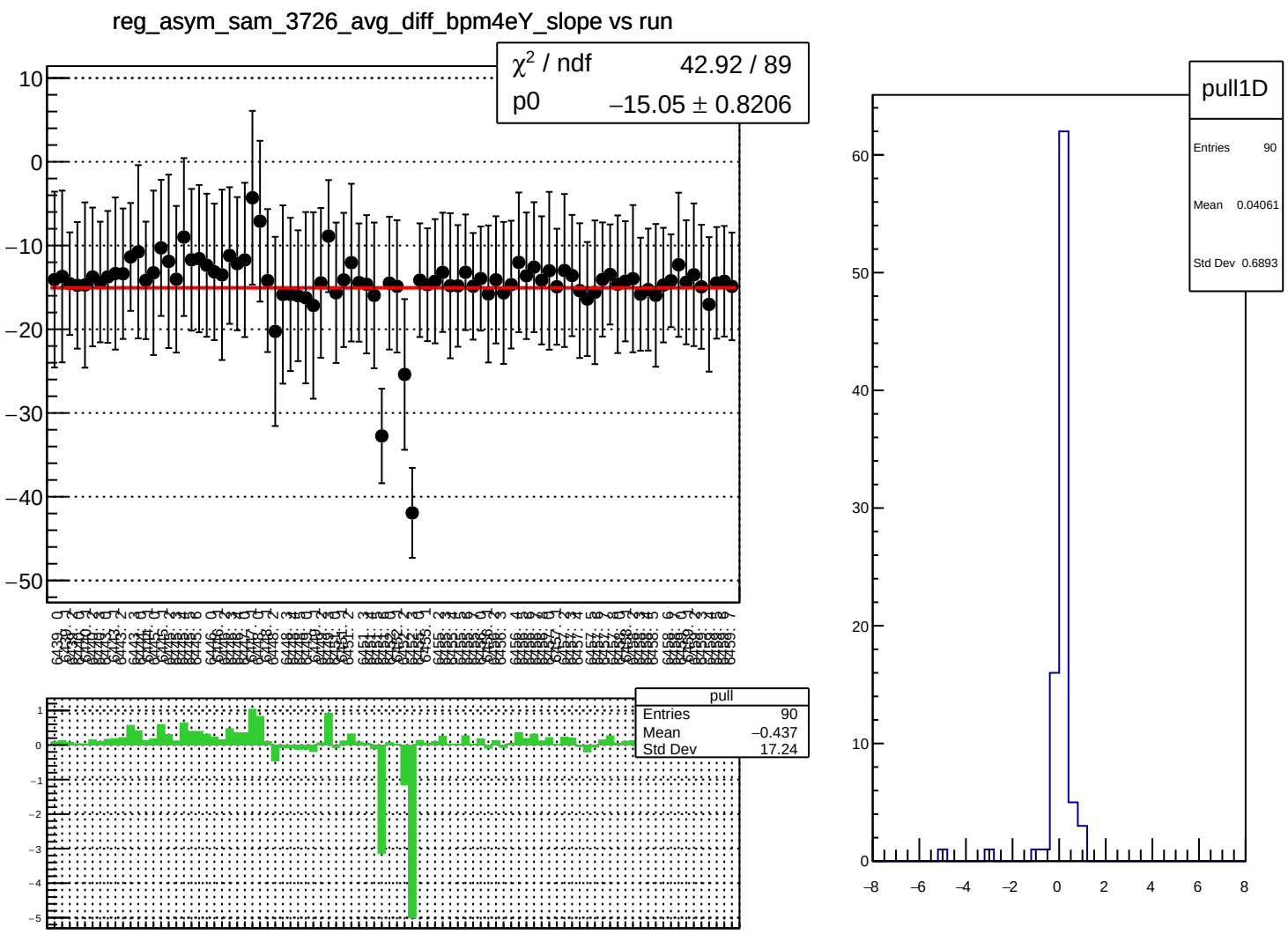

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 51.38 / 89
p0 7.123 ± 0.4095
pull
Entries 90
Mean 157.7
Std Dev 0
pull1D
Entries 90
Mean 0.02128
Std Dev 0.7553

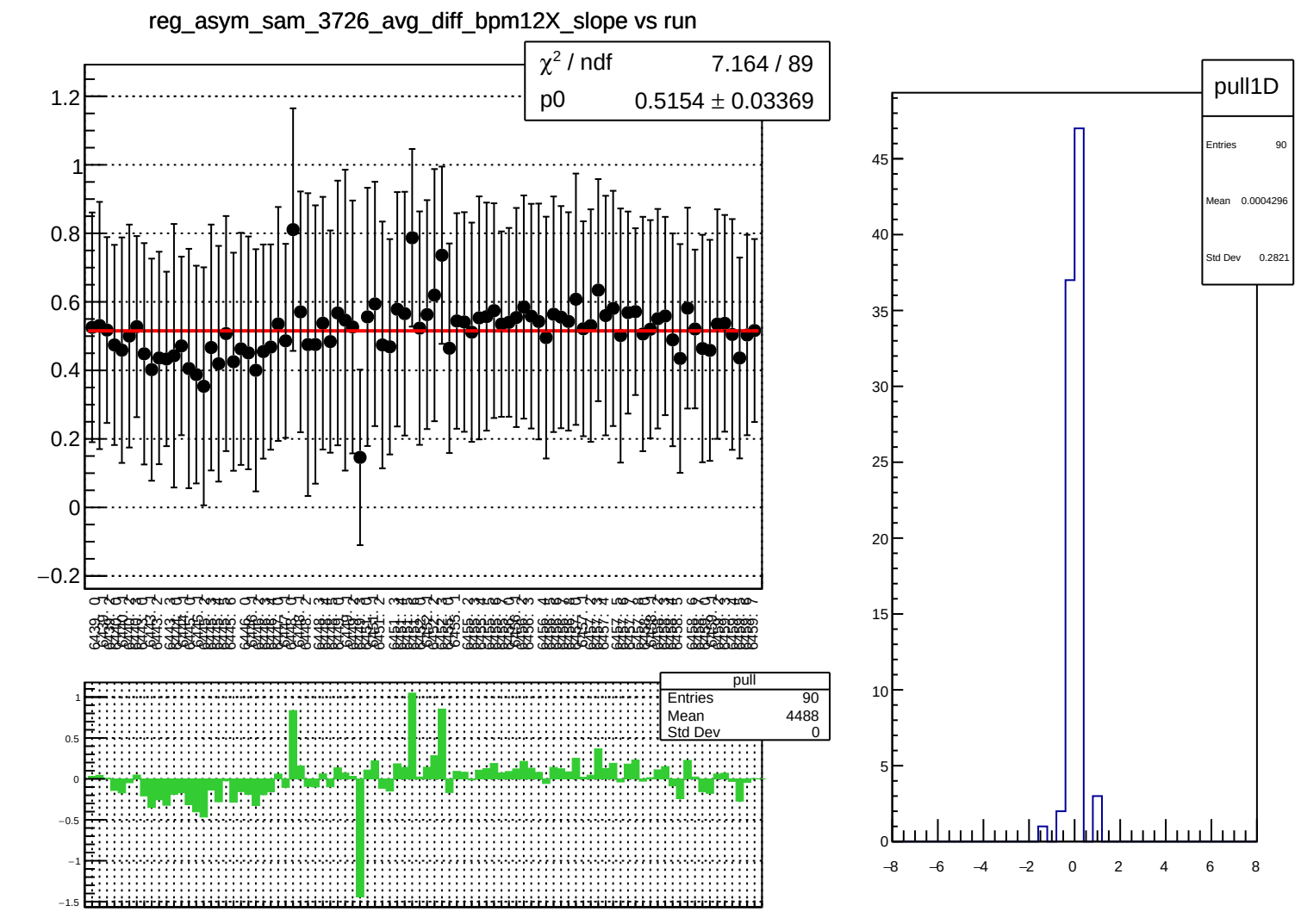

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 12.89 / 89
p0 0.4271± 0.01678
pull
Entries 90
Mean 216
Std Dev 0
pull1D
Entries 90
Mean 0.007336
Std Dev 0.3783

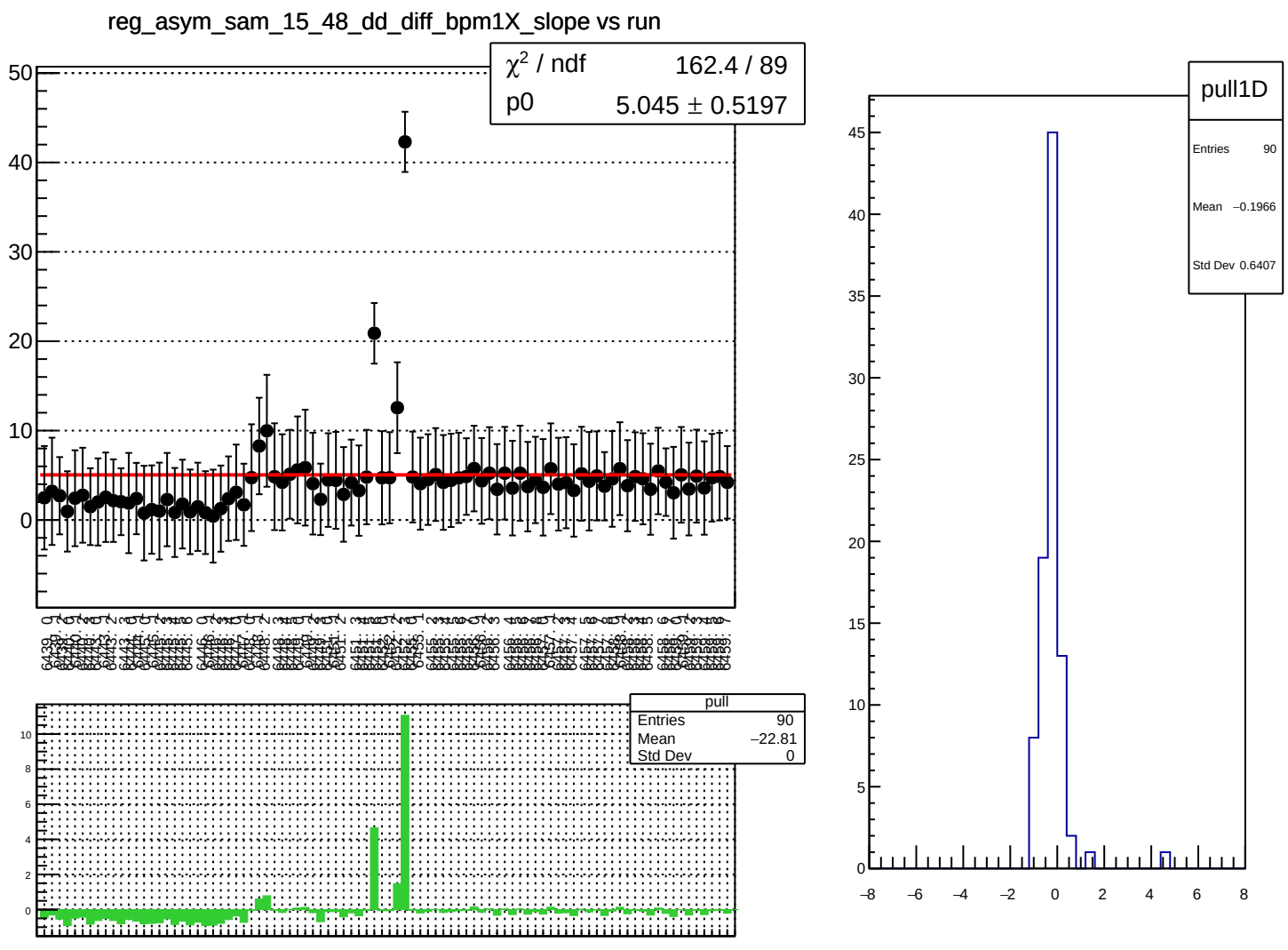

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 68.13 / 89
p0 0.03417 ± 0.7042
pull
Entries 90
Mean 984
Std Dev 0
pull1D
Entries 90
Mean 0.01181
Std Dev 0.87

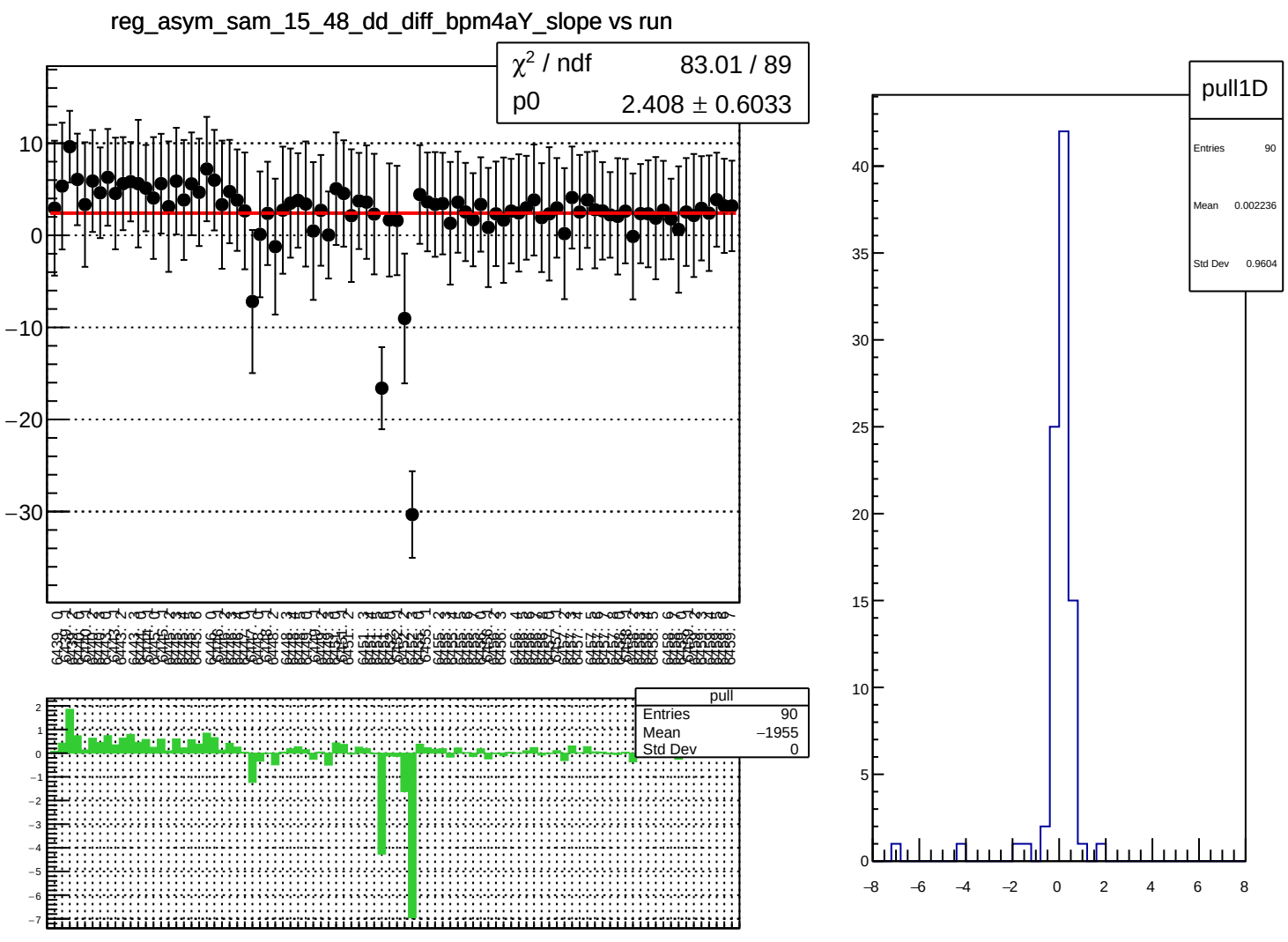

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 43.76 / 89
p0 −1.178 ± 0.8173
pull
Entries 90
Mean −11.5
Std Dev 0
pull1D
Entries 90
Mean −0.04388
Std Dev 0.6959

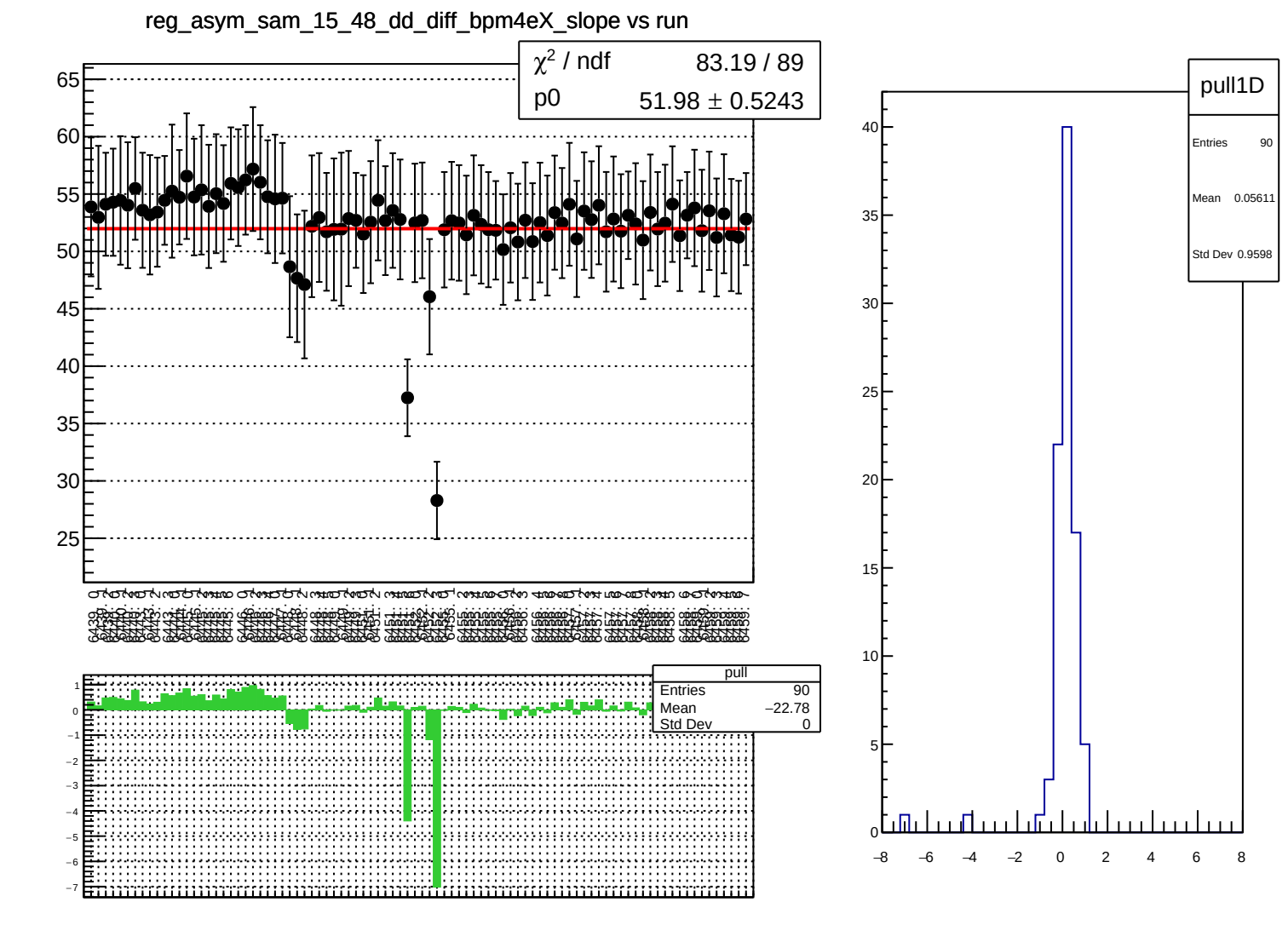

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 42.12 / 89
p0 −84.62 ± 0.7085
pull
Entries 90
Mean 1298
Std Dev 0
pull1D
Entries 90
Mean −0.006043
Std Dev 0.6841

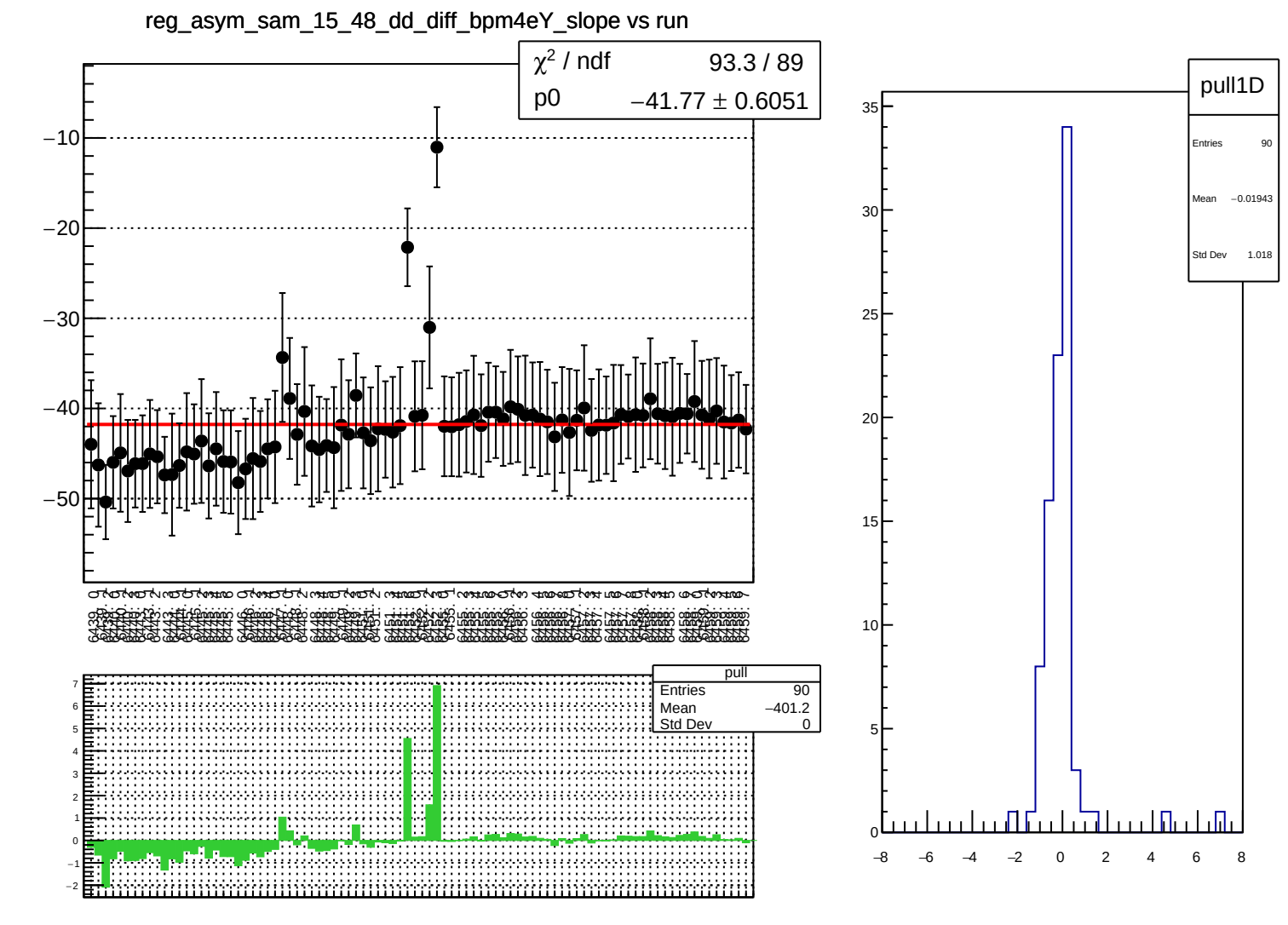

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 42.92 / 89
p0 −15.05 ± 0.8206
pull
Entries 90
Mean −0.437
Std Dev 17.24
pull1D
Entries 90
Mean 0.04061
Std Dev 0.6893

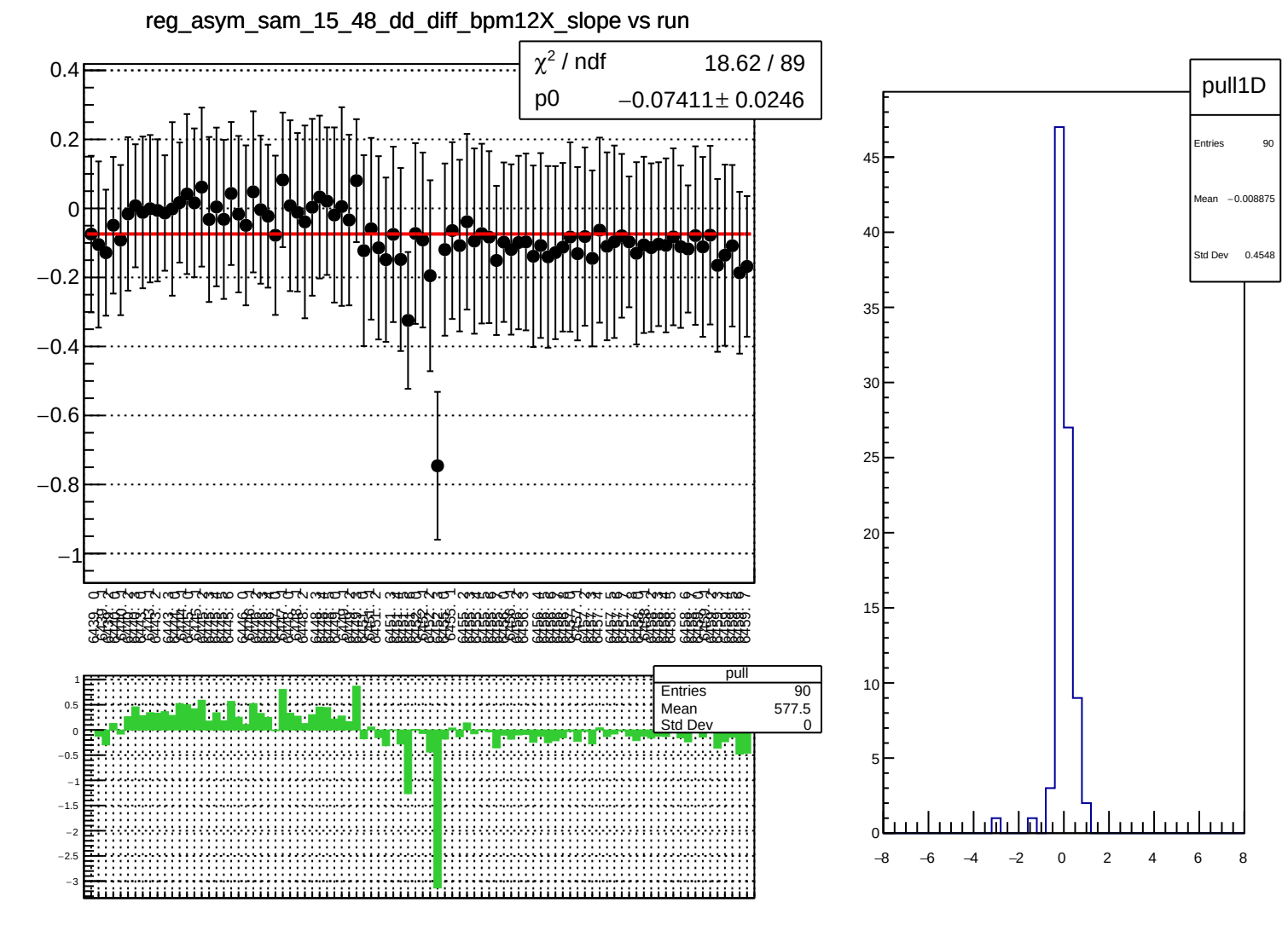

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 7.164 / 89
p0 0.5154 ± 0.03369
pull
Entries 90
Mean 4488
Std Dev 0
pull1D
Entries 90
Mean 0.0004296
Std Dev 0.2821

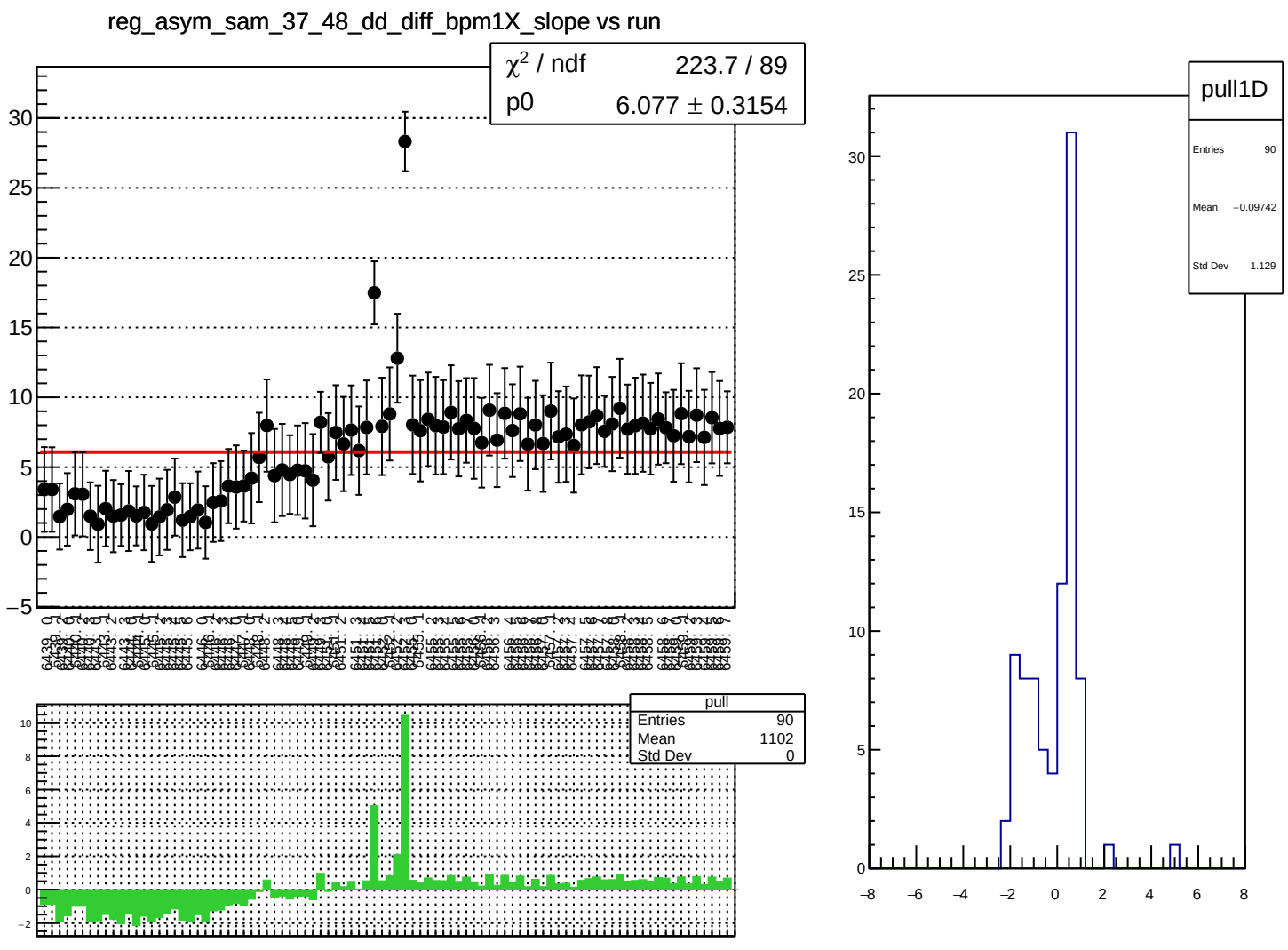

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 162.4 / 89
p0 5.045 ± 0.5197
pull
Entries 90
Mean −22.81
Std Dev 0
pull1D
Entries 90
Mean −0.1966
Std Dev 0.6407

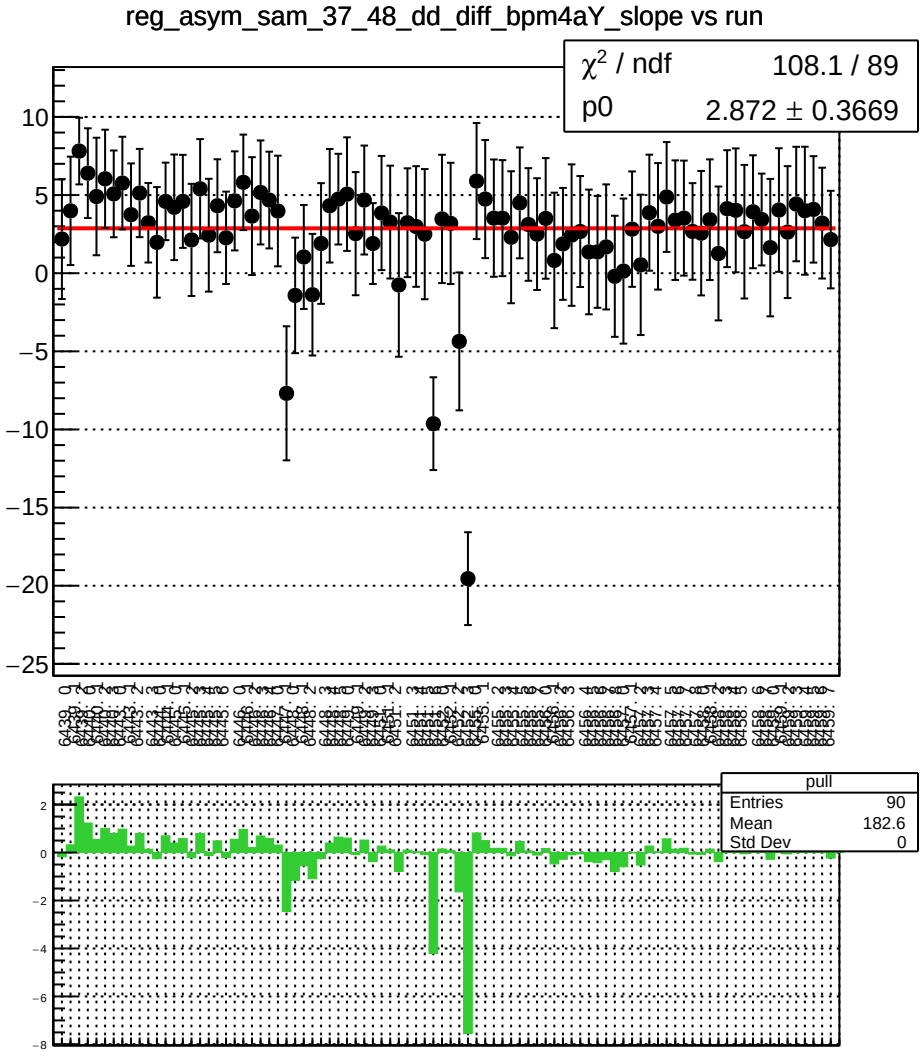

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 83.01 / 89
p0 2.408 ± 0.6033
pull
Entries 90
Mean −1955
Std Dev 0
pull1D
Entries 90
Mean 0.002236
Std Dev 0.9604

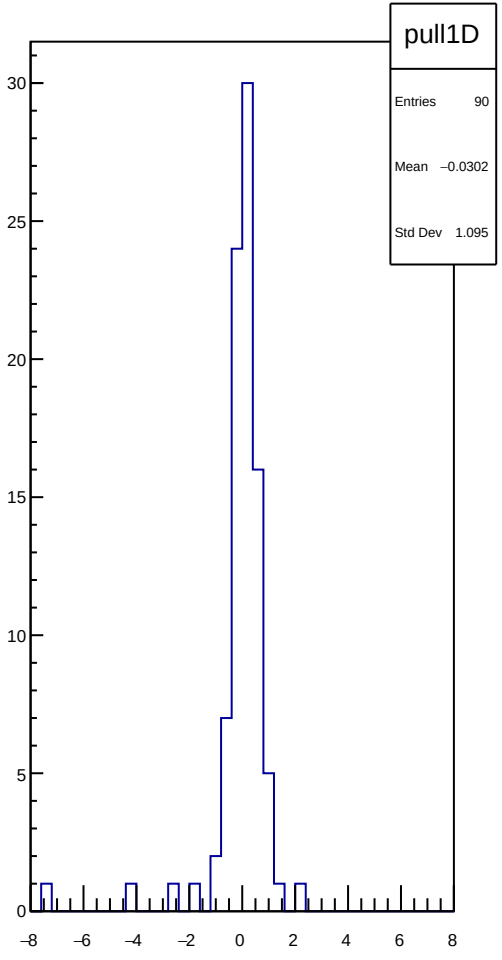

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 83.19 / 89
p0 51.98 ± 0.5243
pull
Entries 90
Mean −22.78
Std Dev 0
pull1D
Entries 90
Mean 0.05611
Std Dev 0.9598

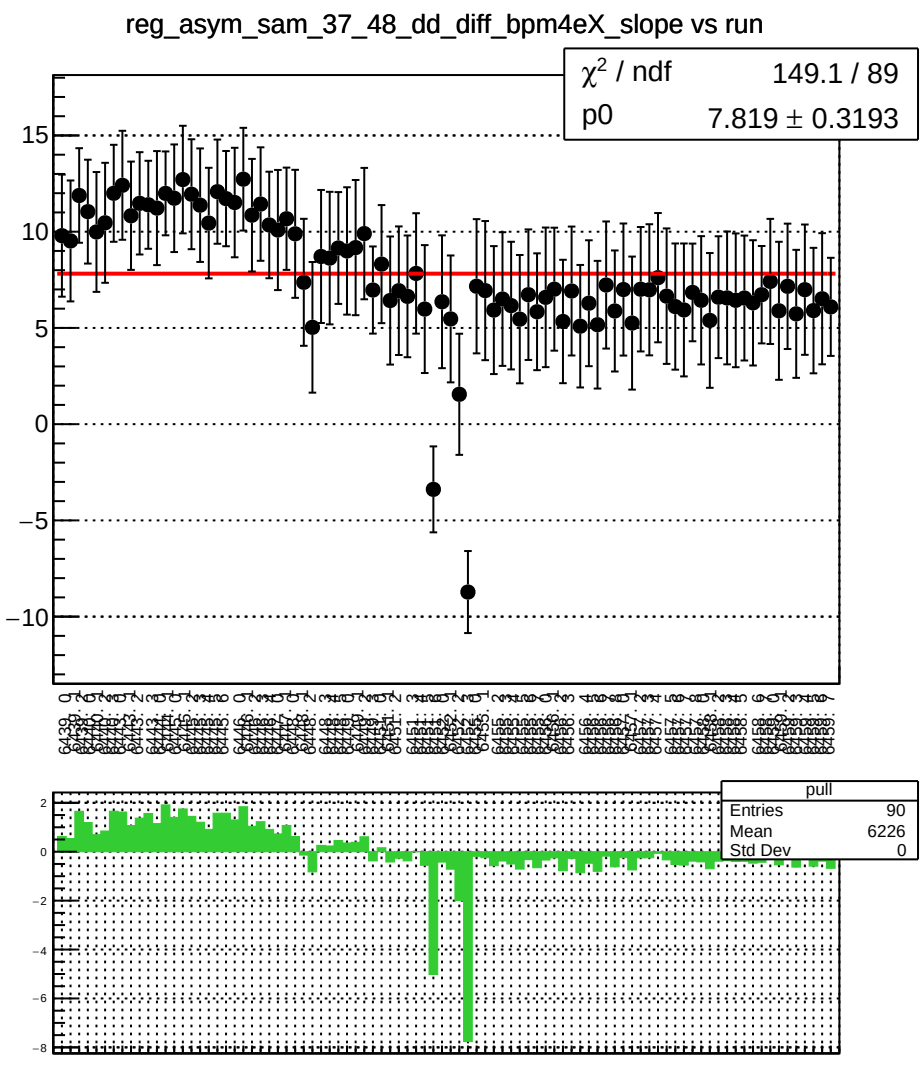

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 93.3 / 89
p0 −41.77 ± 0.6051
pull
Entries 90
Mean −401.2
Std Dev 0
pull1D
Entries 90
Mean −0.01943
Std Dev 1.018

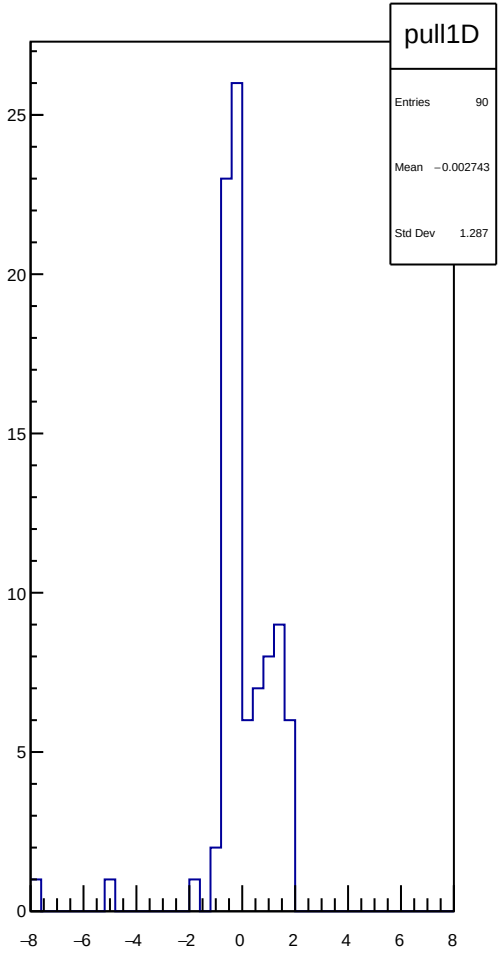

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 18.62 / 89
p0 −0.07411 ± 0.0246
pull
Entries 90
Mean 577.5
Std Dev 0
pull1D
Entries 90
Mean −0.008875
Std Dev 0.4548

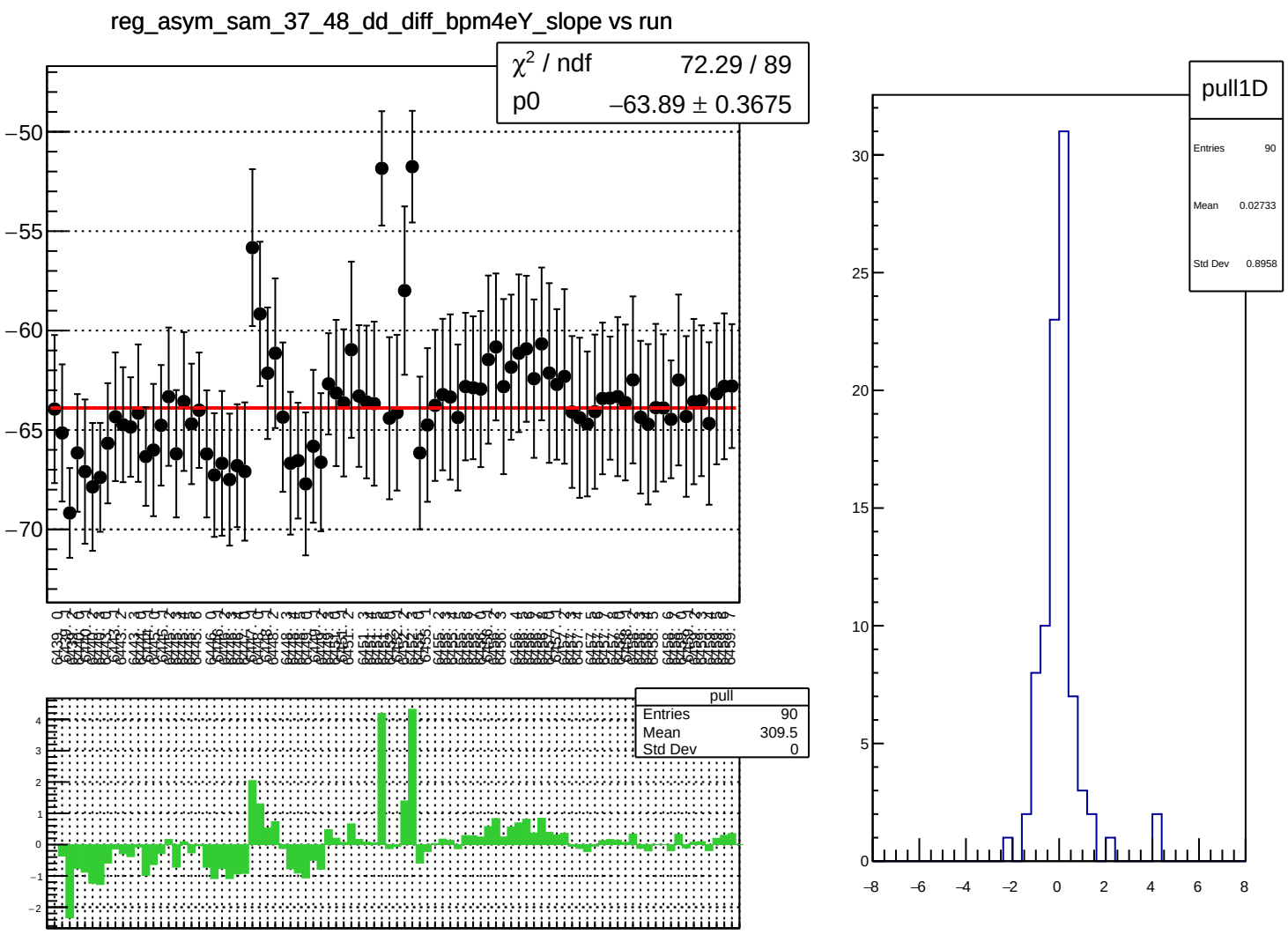

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 223.7 / 89
p0 6.077 ± 0.3154
pull
Entries 90
Mean 1102
Std Dev 0
pull1D
Entries 90
Mean −0.09742
Std Dev 1.129

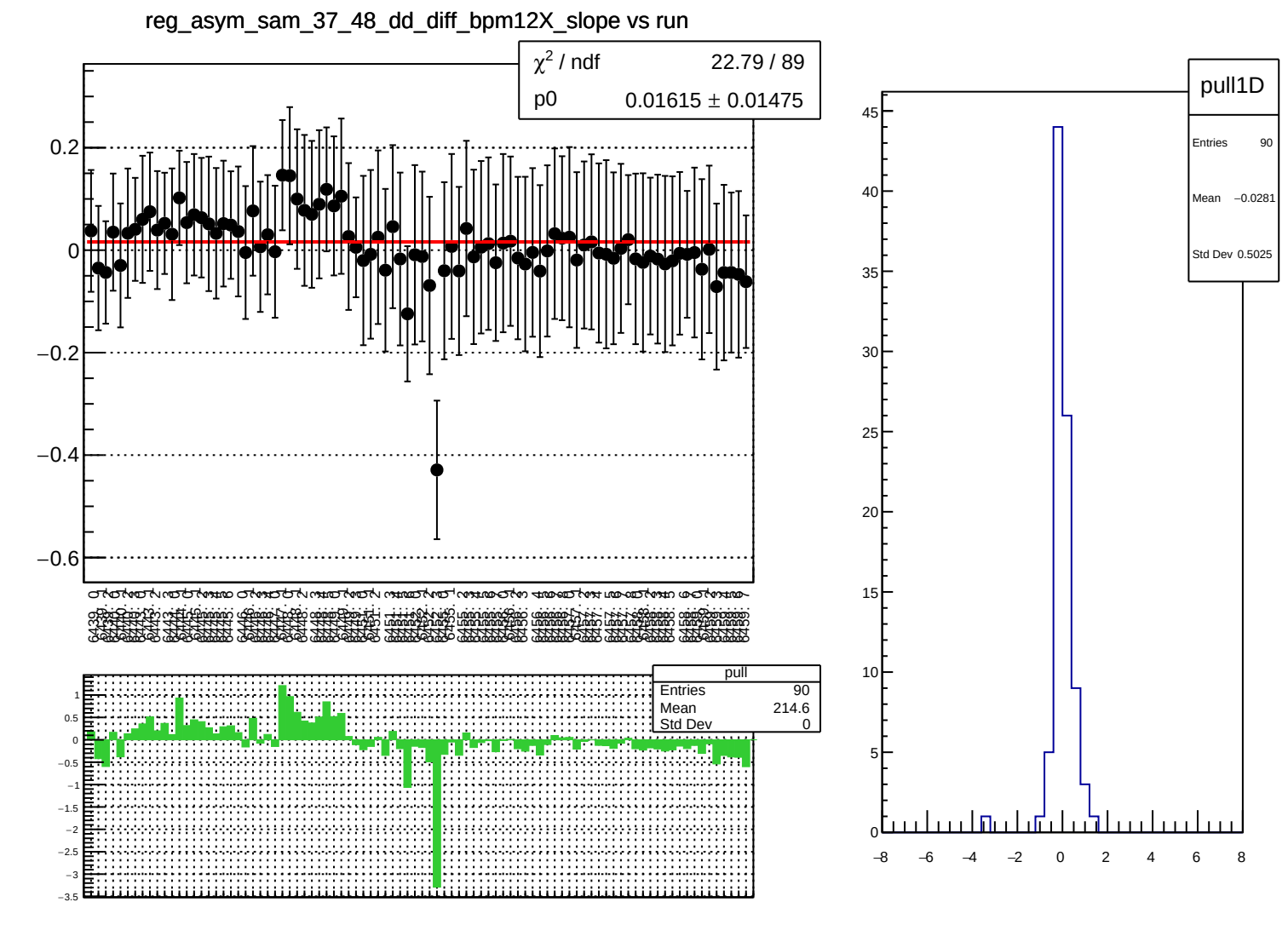

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 108.1 / 89
p0 2.872 ± 0.3669
pull
Entries 90
Mean 182.6
Std Dev 0

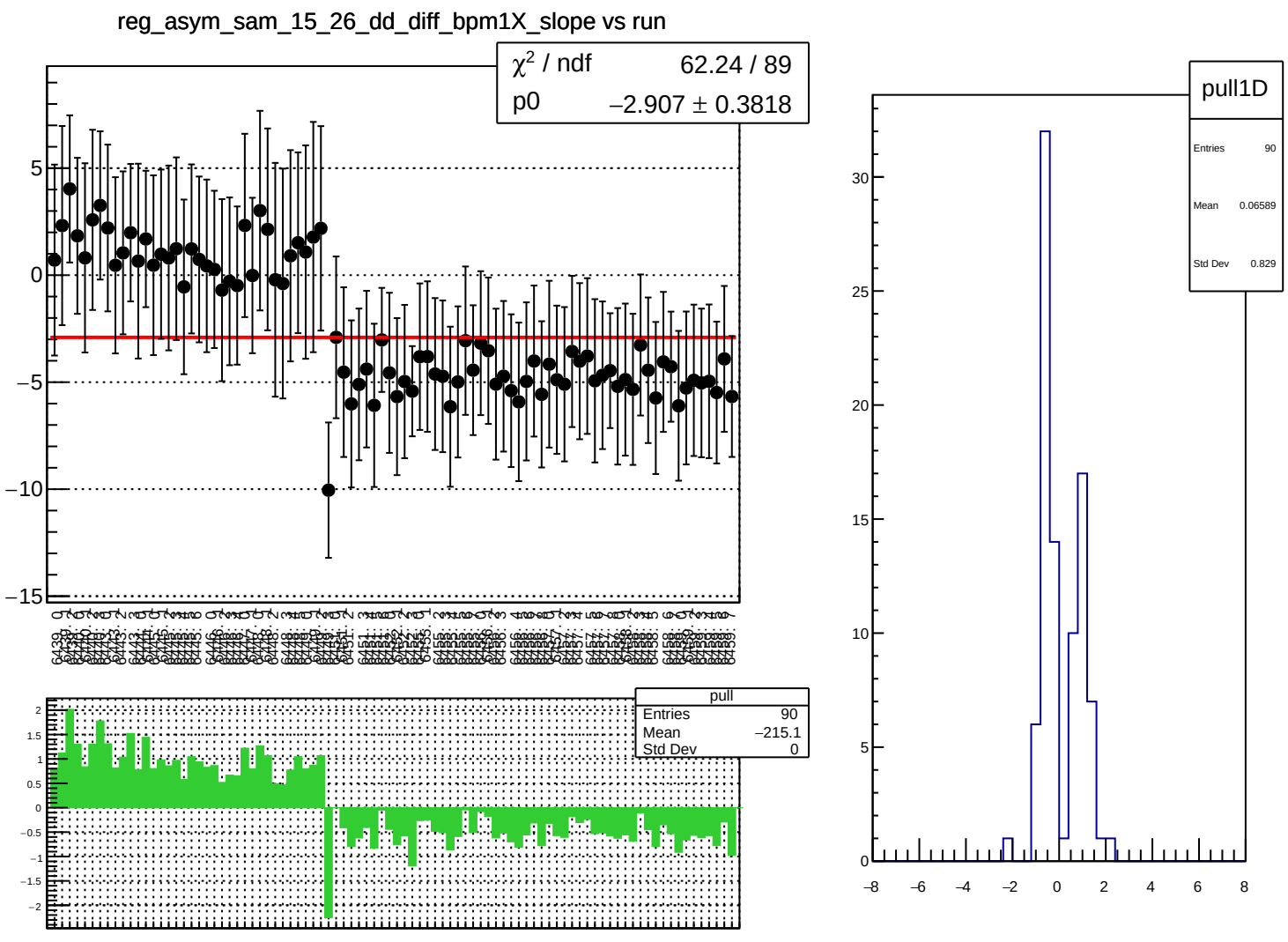

pull1D
Entries 90
Mean −0.0302
Std Dev 1.095

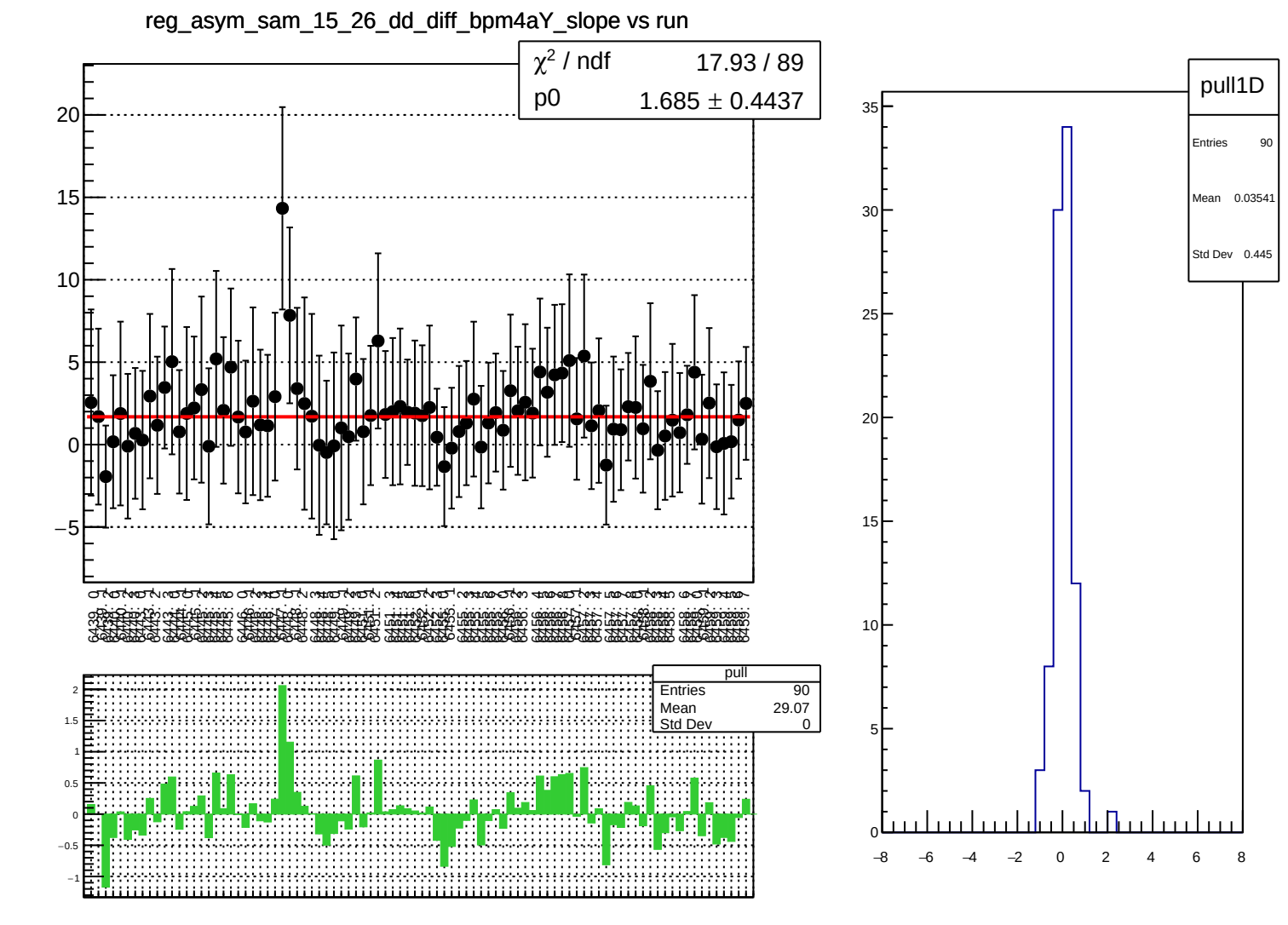

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 149.1 / 89
p0 7.819 ± 0.3193
pull
Entries 90
Mean 6226
Std Dev 0

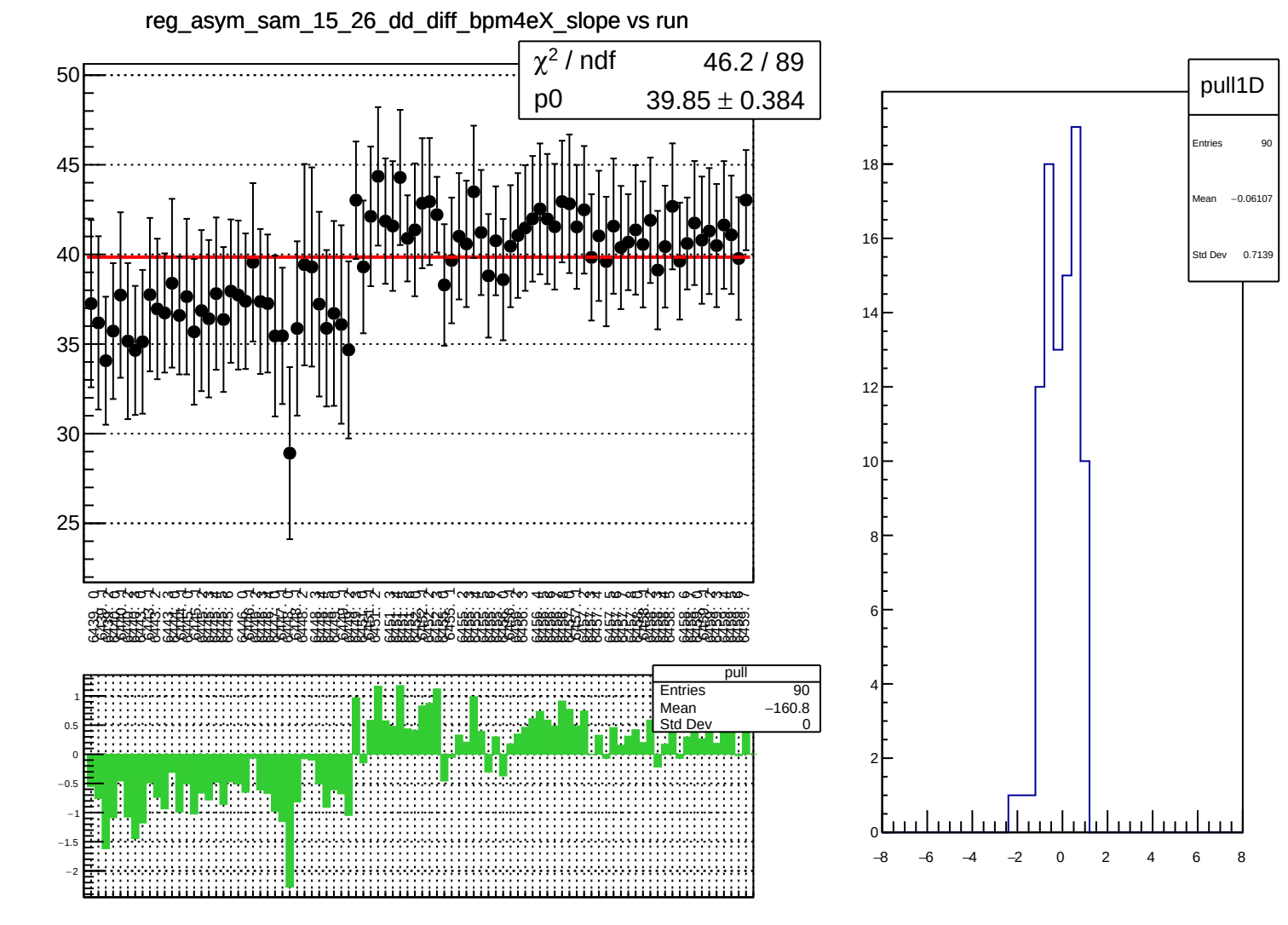

pull1D
Entries 90
Mean −0.002743
Std Dev 1.287

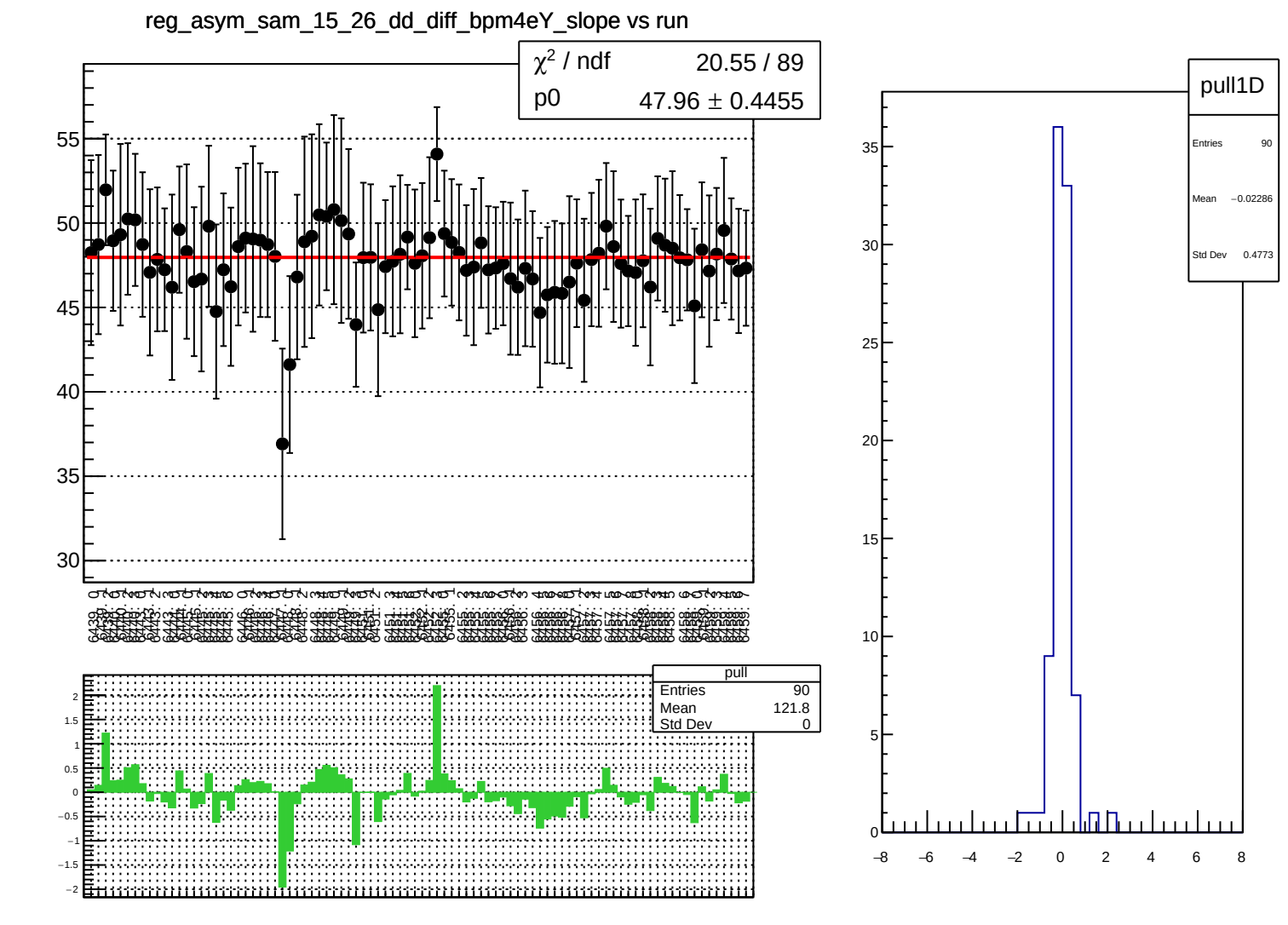

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 72.29 / 89
p0 −63.89 ± 0.3675
pull
Entries 90
Mean 309.5
Std Dev 0
pull1D
Entries 90
Mean 0.02733
Std Dev 0.8958

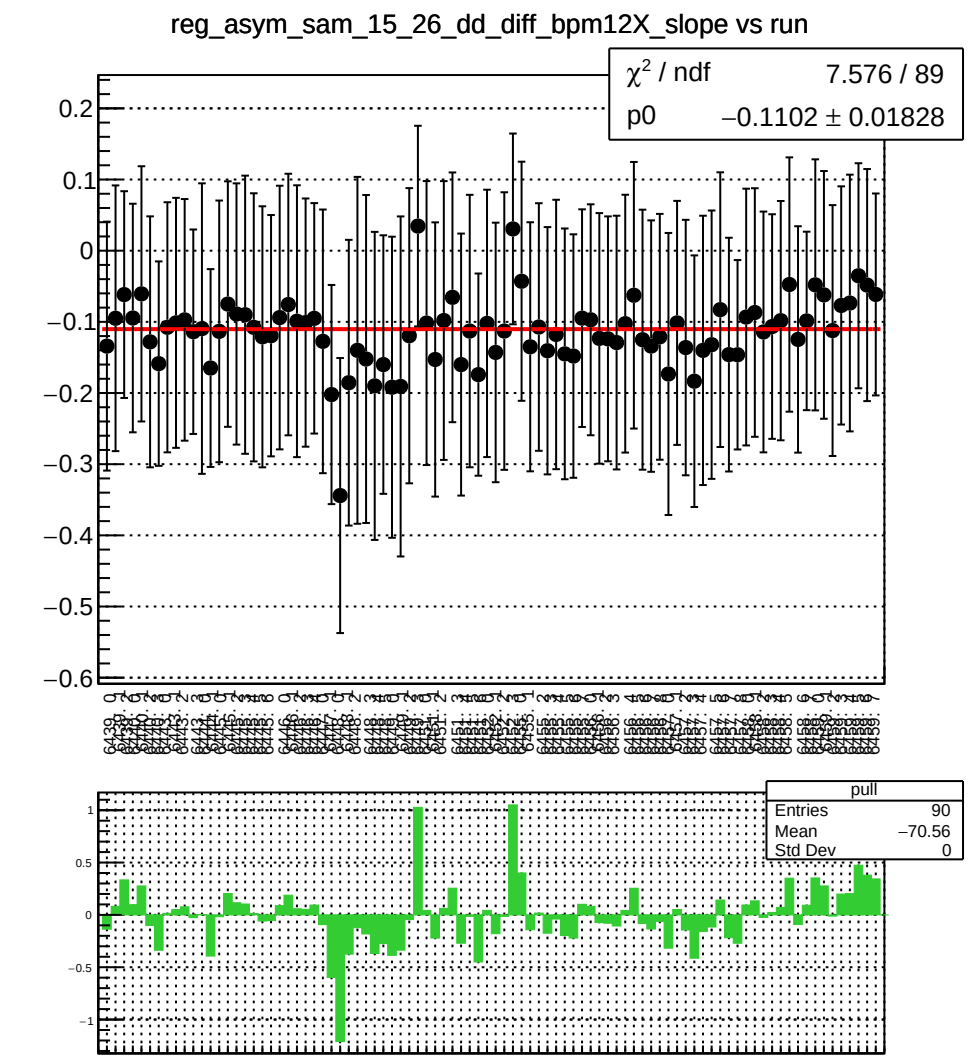

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 22.79 / 89
p0 0.01615 ± 0.01475
pull
Entries 90
Mean 214.6
Std Dev 0
pull1D
Entries 90
Mean −0.0281
Std Dev 0.5025

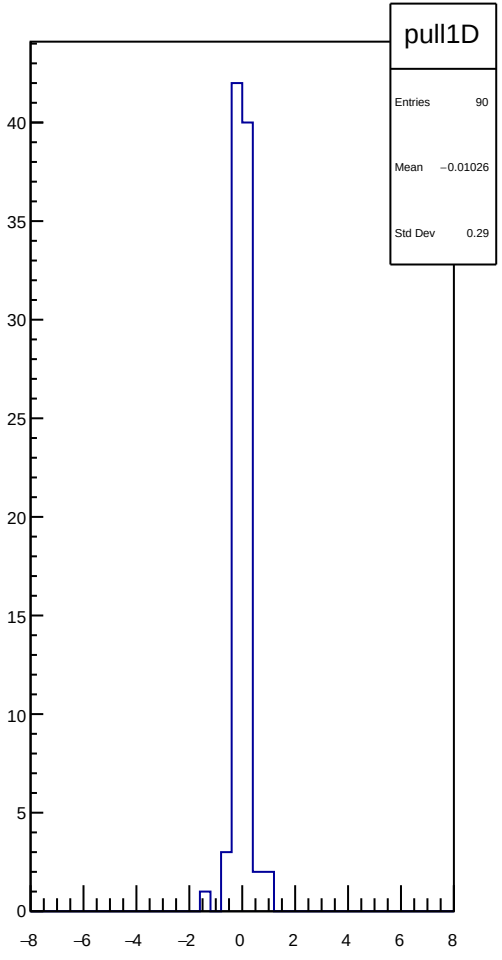

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 62.24 / 89
p0 −2.907 ± 0.3818
pull
Entries 90
Mean −215.1
Std Dev 0
pull1D
Entries 90
Mean 0.06589
Std Dev 0.829

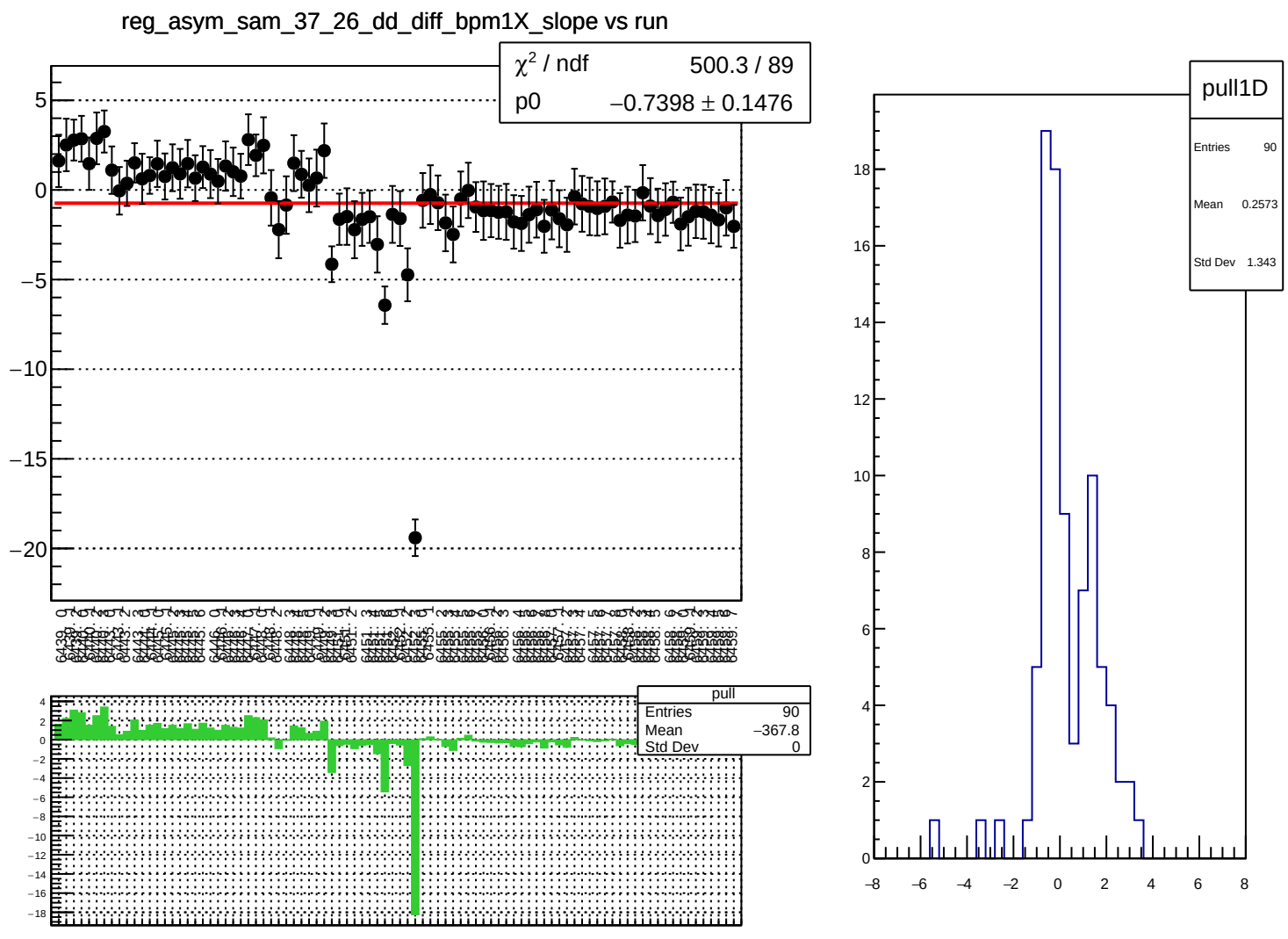

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 17.93 / 89
p0 1.685 ± 0.4437
pull
Entries 90
Mean 29.07
Std Dev 0
pull1D
Entries 90
Mean 0.03541
Std Dev 0.445

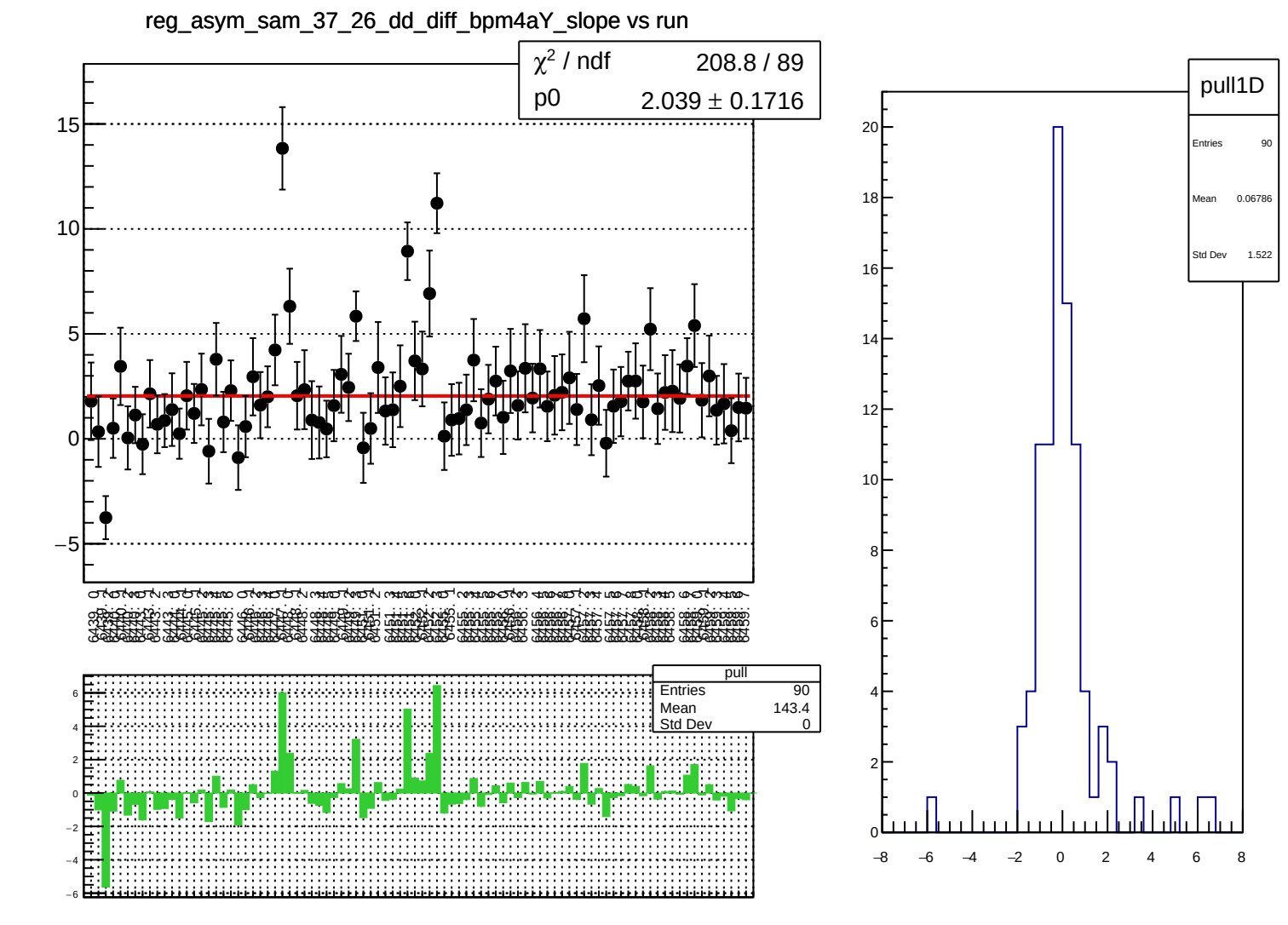

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 46.2 / 89
p0 39.85 ± 0.384
pull
Entries 90
Mean −160.8
Std Dev 0
pull1D
Entries 90
Mean −0.06107
Std Dev 0.7139

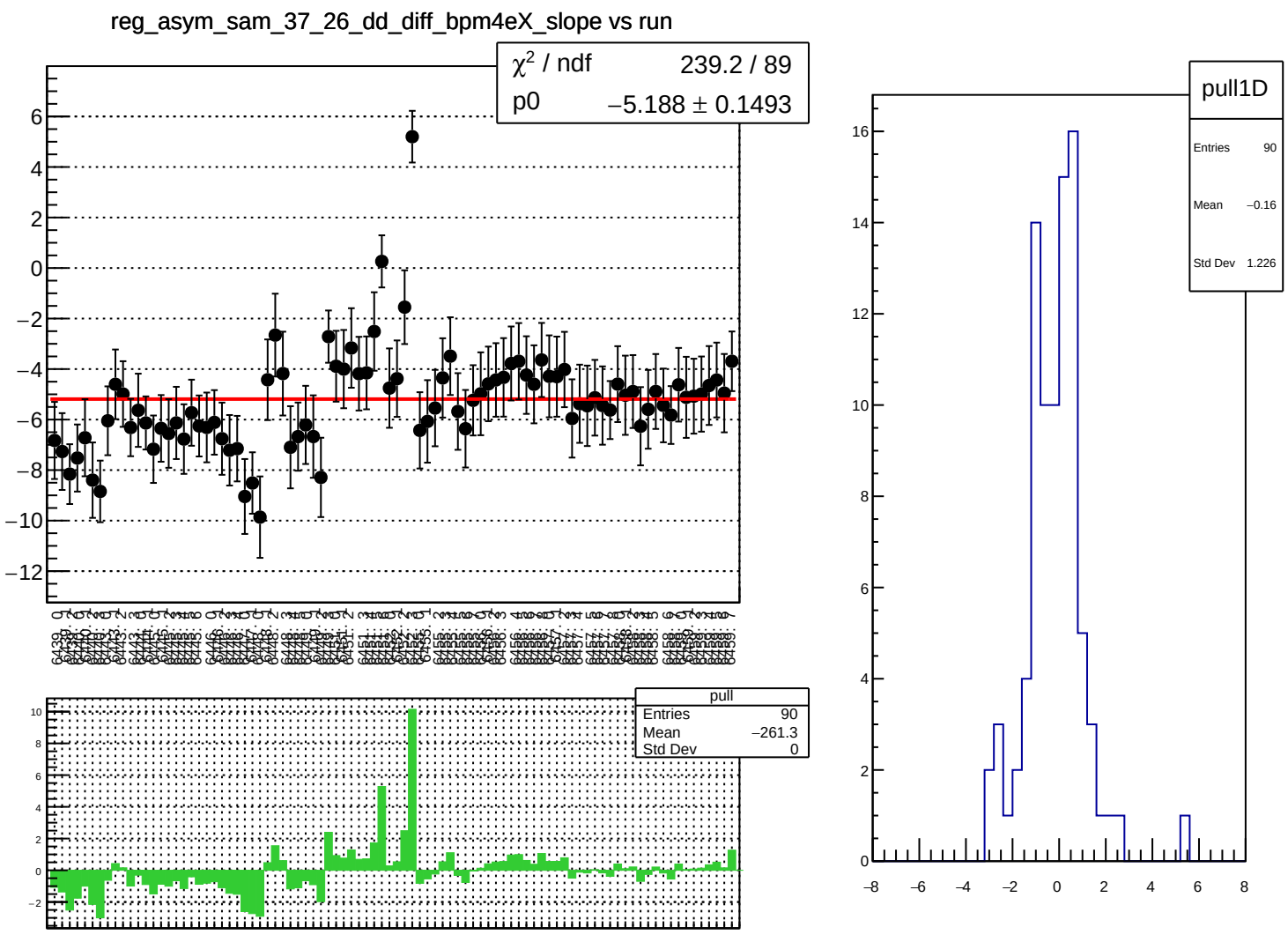

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 20.55 / 89
p0 47.96 ± 0.4455
pull
Entries 90
Mean 121.8
Std Dev 0
pull1D
Entries 90
Mean −0.02286
Std Dev 0.4773

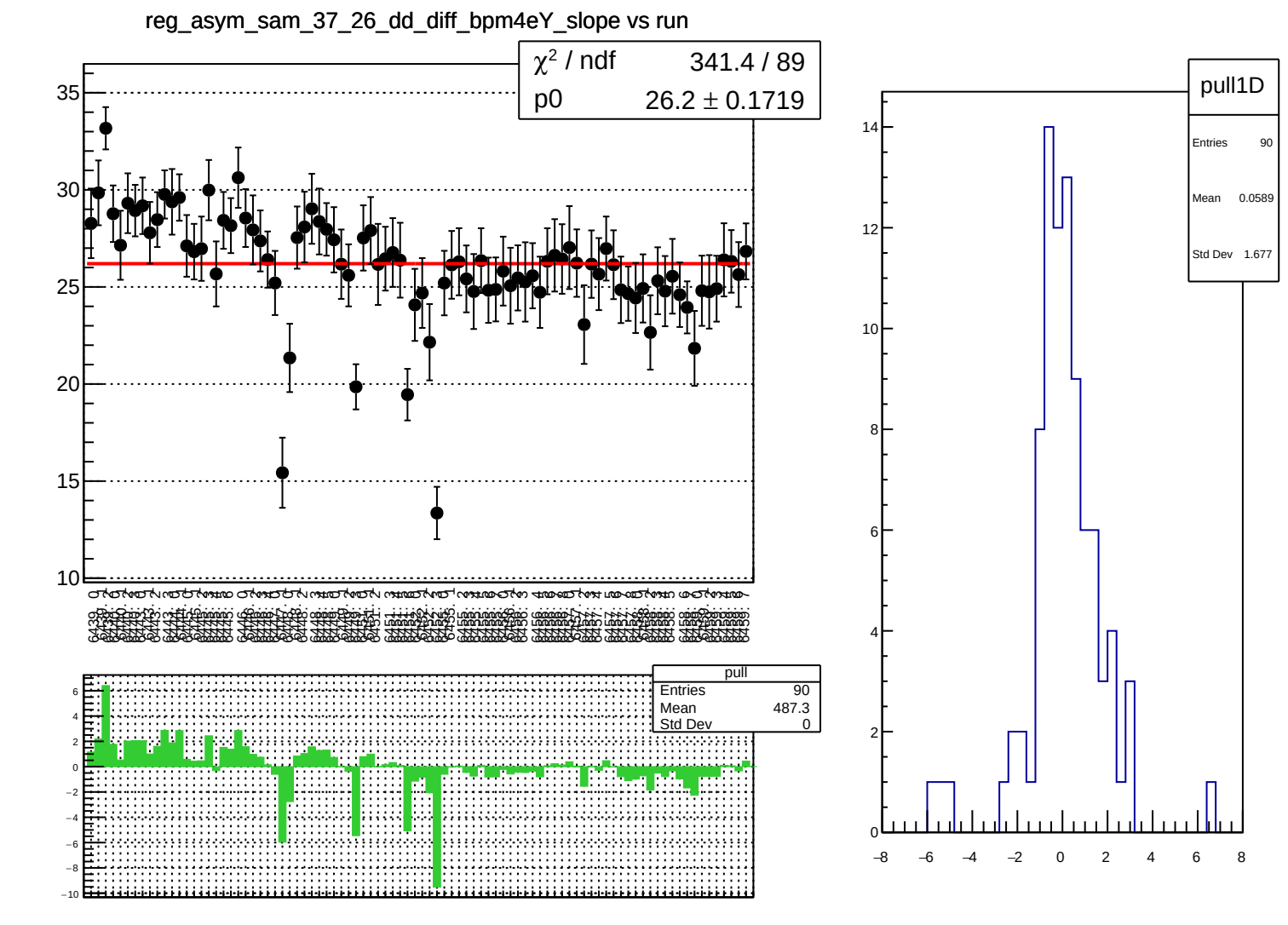

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 7.576 / 89
p0 −0.1102 ± 0.01828
pull
Entries 90
Mean −70.56
Std Dev 0

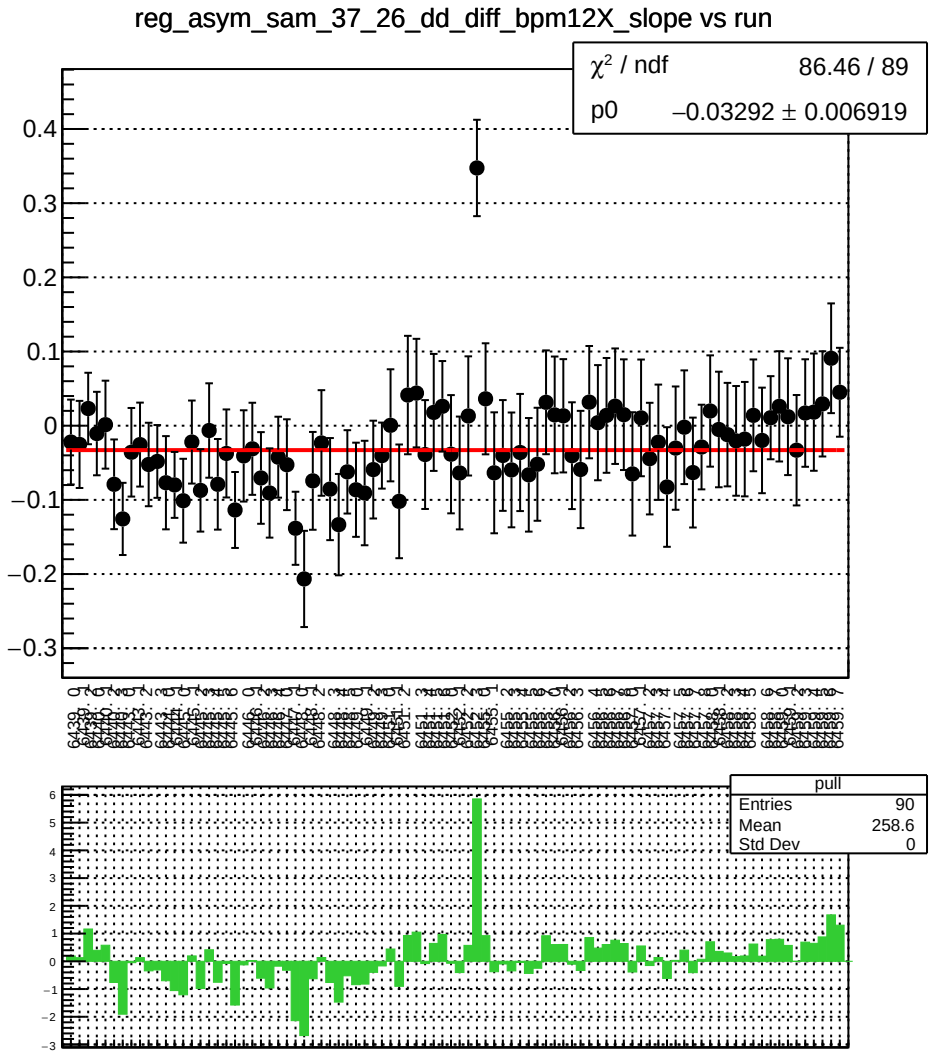

pull1D
Entries 90
Mean −0.01026
Std Dev 0.29

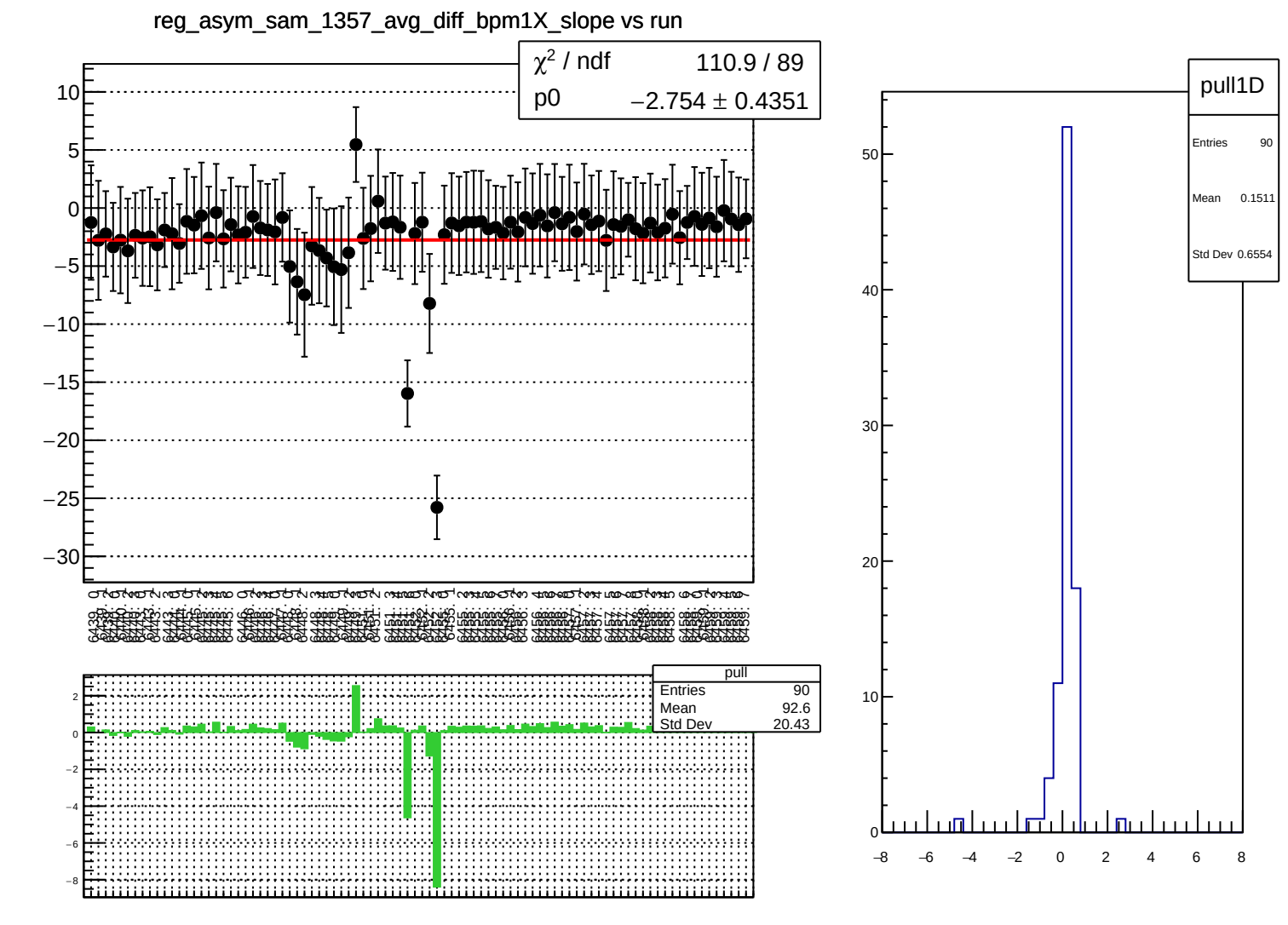

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 500.3 / 89
p0 −0.7398 ± 0.1476
pull
Entries 90
Mean −367.8
Std Dev 0
pull1D
Entries 90
Mean 0.2573
Std Dev 1.343

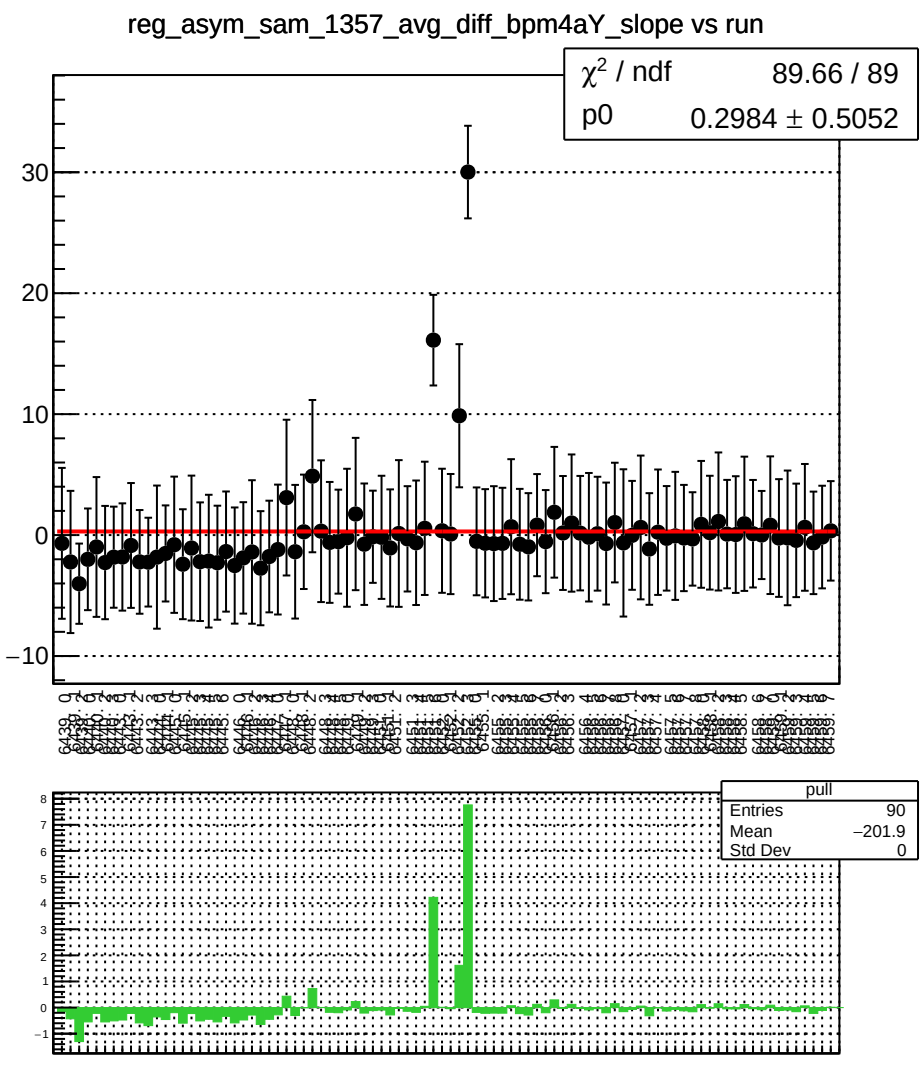

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 208.8 / 89
p0 2.039 ± 0.1716
pull
Entries 90
Mean 143.4
Std Dev 0
pull1D
Entries 90
Mean 0.06786
Std Dev 1.522

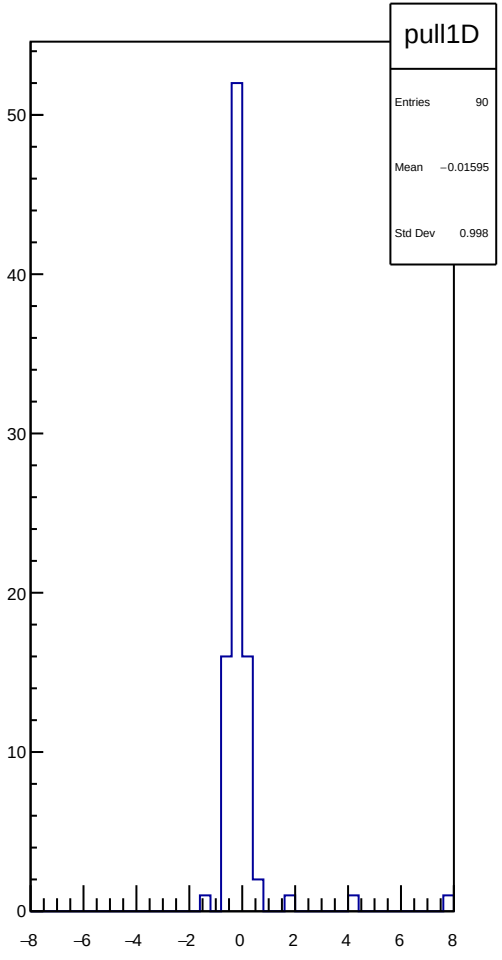

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 239.2 / 89
p0 −5.188 ± 0.1493
pull
Entries 90
Mean −261.3
Std Dev 0
pull1D
Entries 90
Mean −0.16
Std Dev 1.226

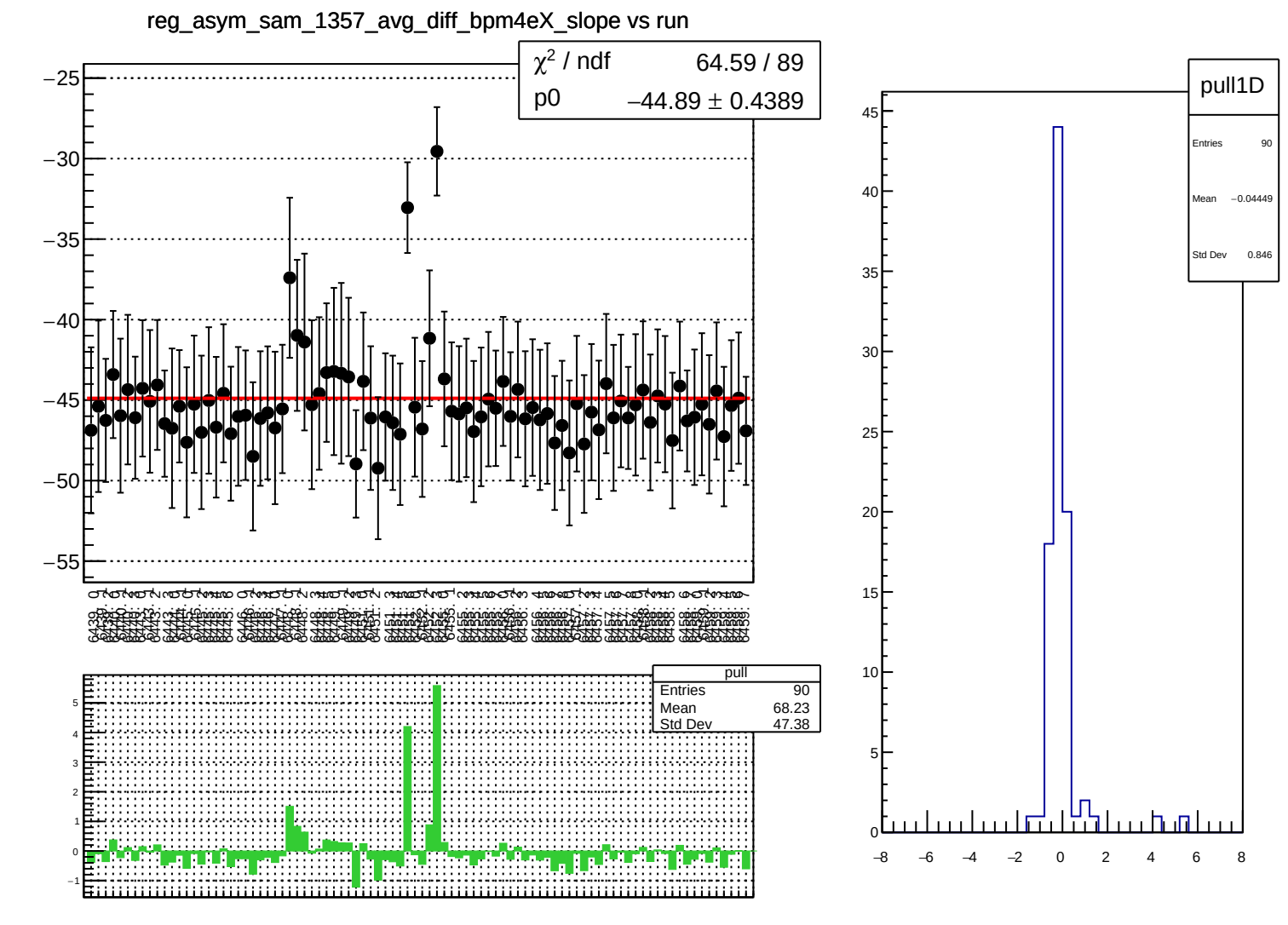

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 341.4 / 89
p0 26.2 ± 0.1719
pull
Entries 90
Mean 487.3
Std Dev 0
pull1D
Entries 90
Mean 0.0589
Std Dev 1.677

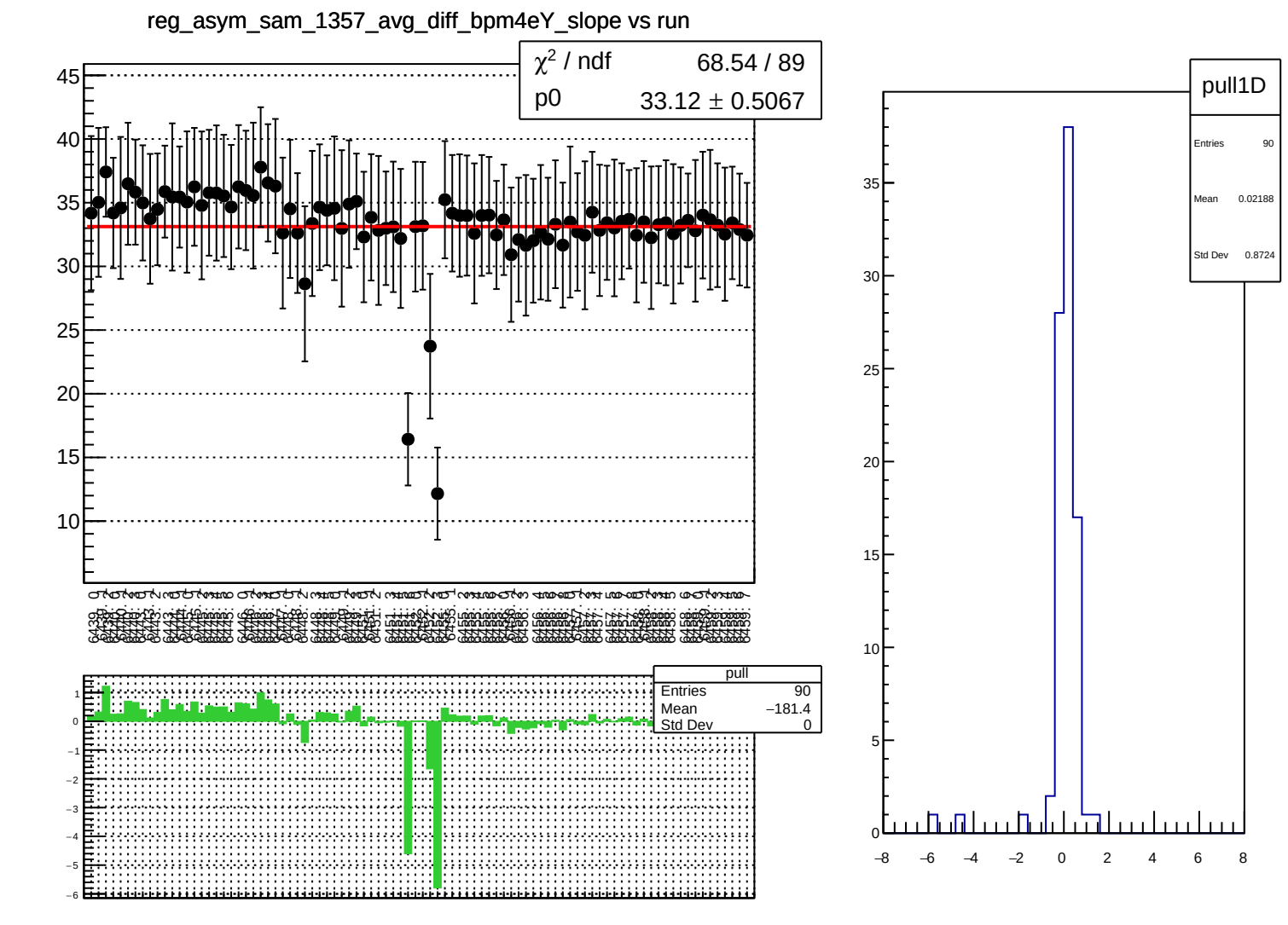

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 86.46 / 89
p0 −0.03292 ± 0.006919
pull
Entries 90
Mean 258.6
Std Dev 0
pull1D
Entries 90
Mean 0.04374
Std Dev 0.9792

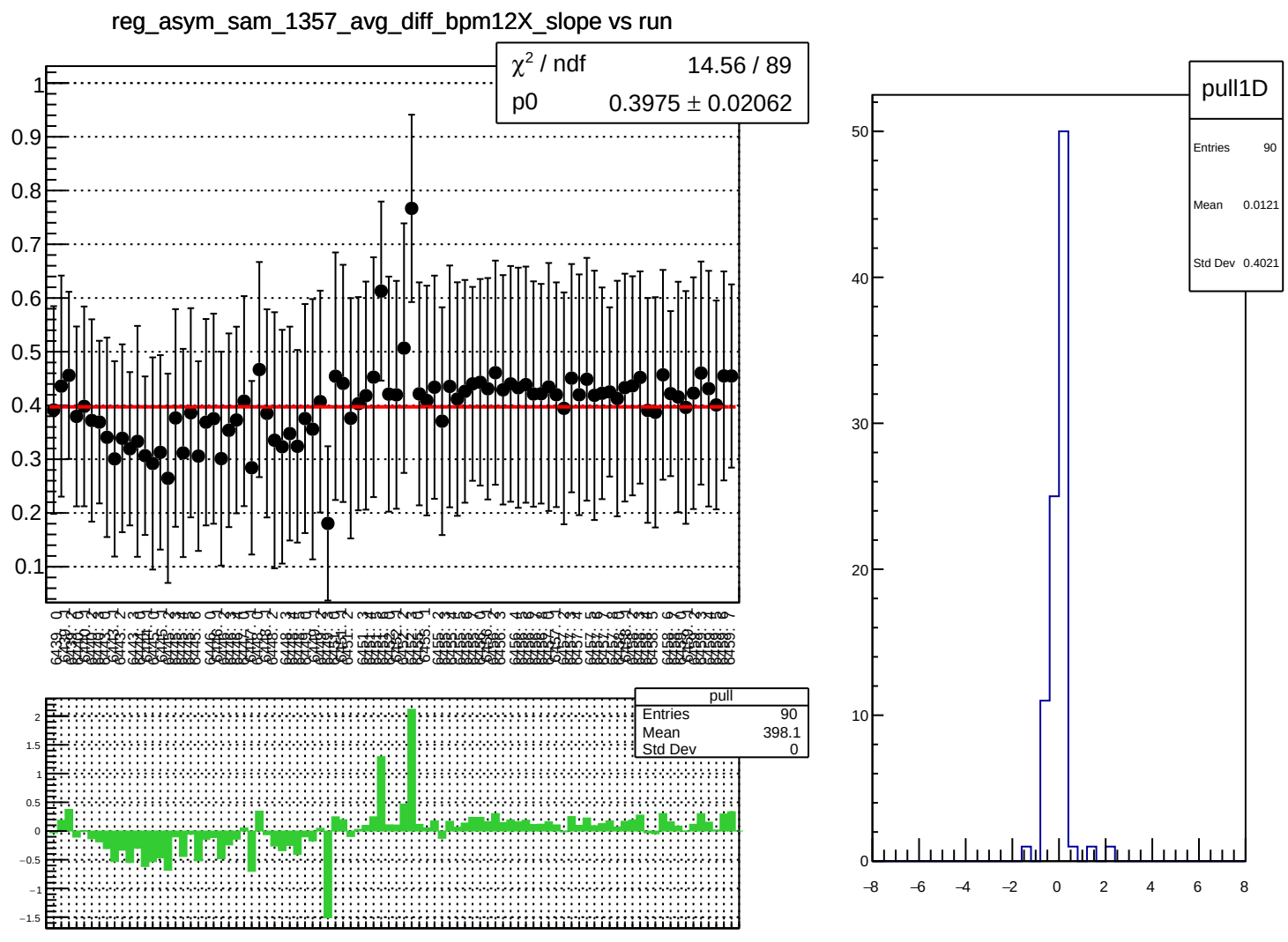

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 110.9 / 89
p0 −2.754 ± 0.4351
pull
Entries 90
Mean 92.6
Std Dev 20.43
pull1D
Entries 90
Mean 0.1511
Std Dev 0.6554

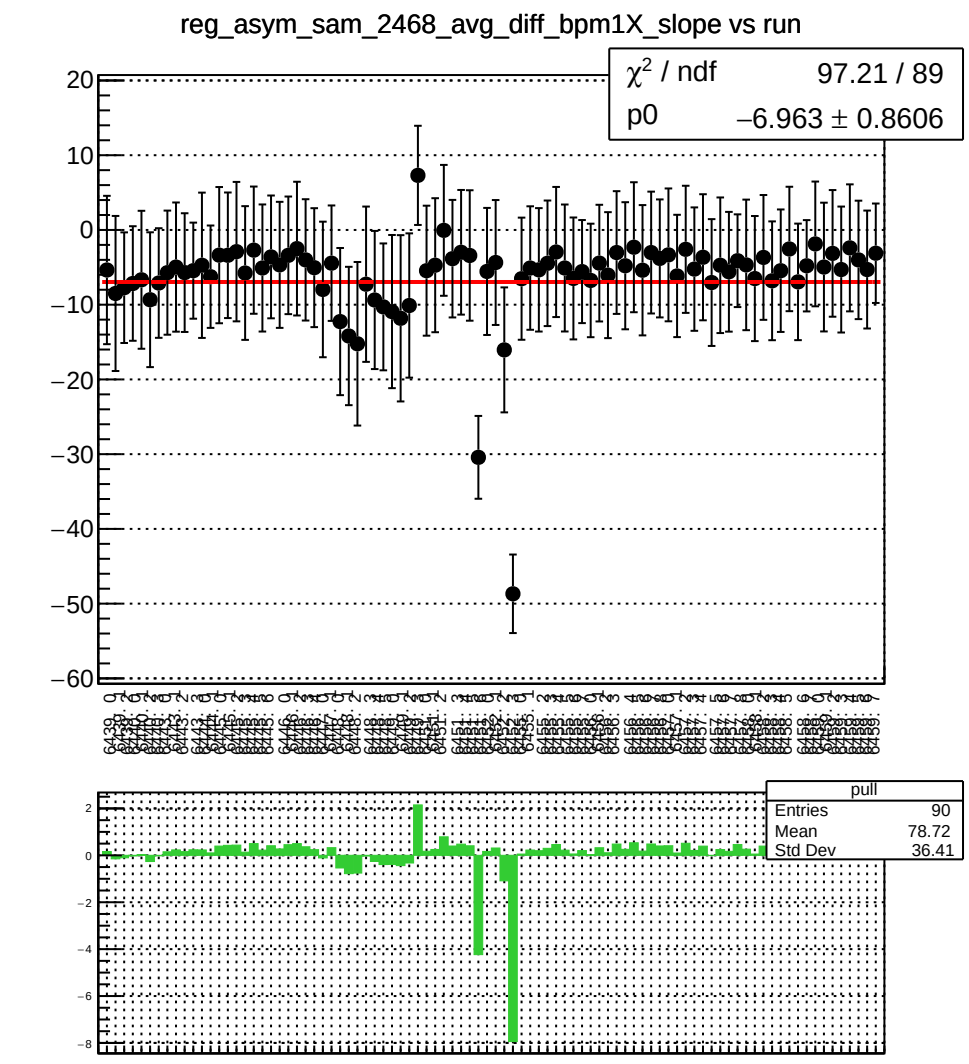

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 89.66 / 89
p0 0.2984 ± 0.5052
pull
Entries 90
Mean −201.9
Std Dev 0

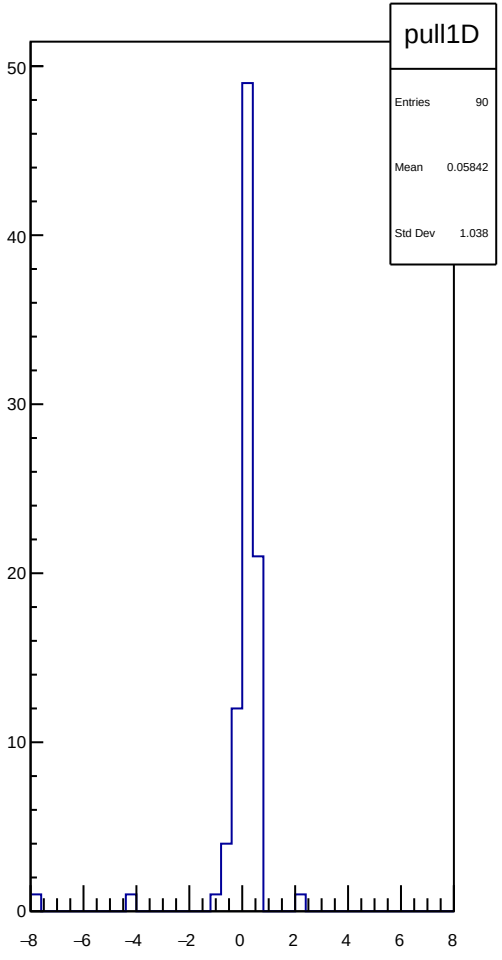

pull1D
Entries 90
Mean −0.01595
Std Dev 0.998

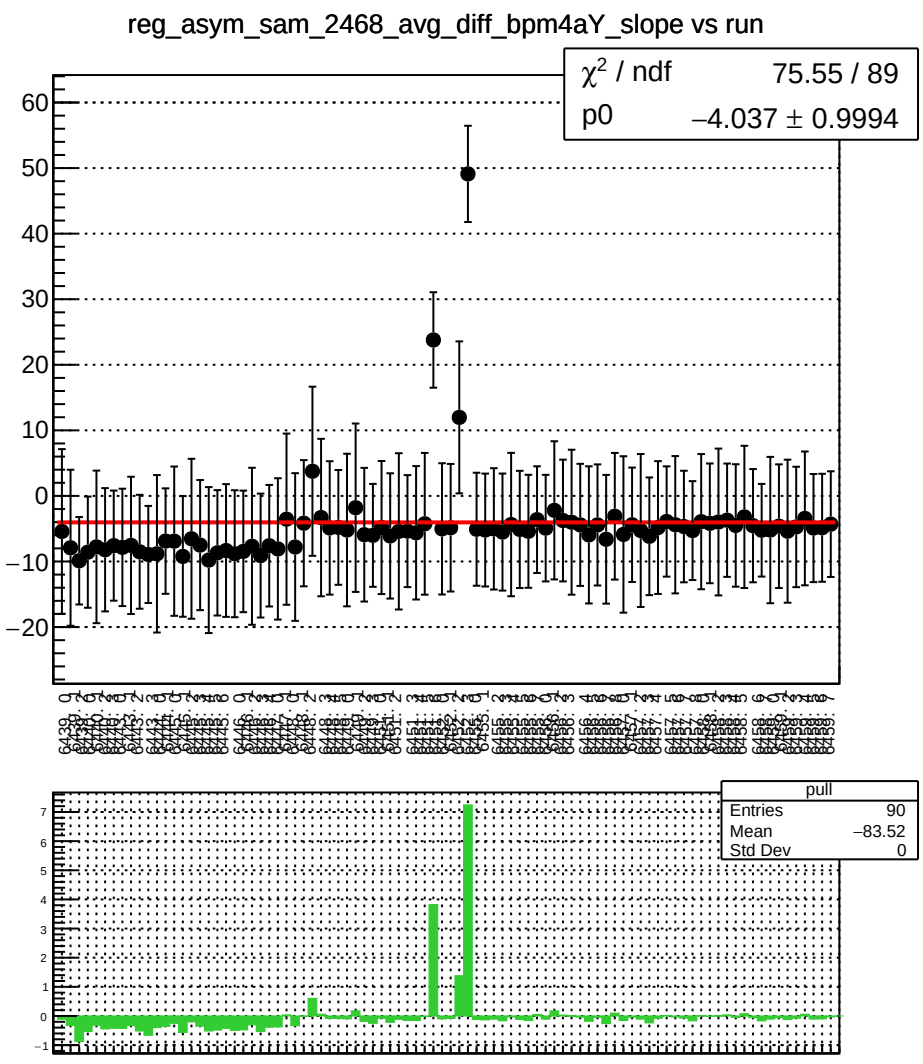

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 64.59 / 89
p0 −44.89 ± 0.4389
pull
Entries 90
Mean 68.23
Std Dev 47.38
pull1D
Entries 90
Mean −0.04449
Std Dev 0.846

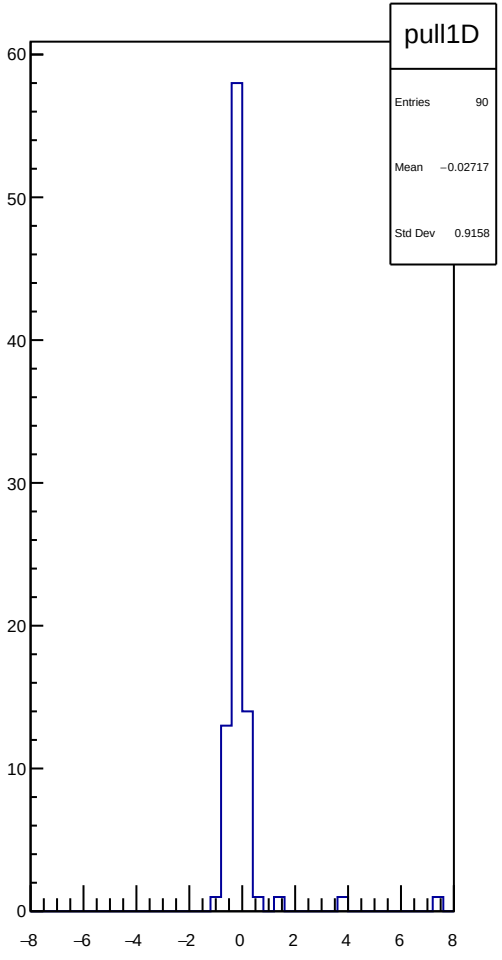

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 68.54 / 89
p0 33.12 ± 0.5067
pull
Entries 90
Mean −181.4
Std Dev 0
pull1D
Entries 90
Mean 0.02188
Std Dev 0.8724

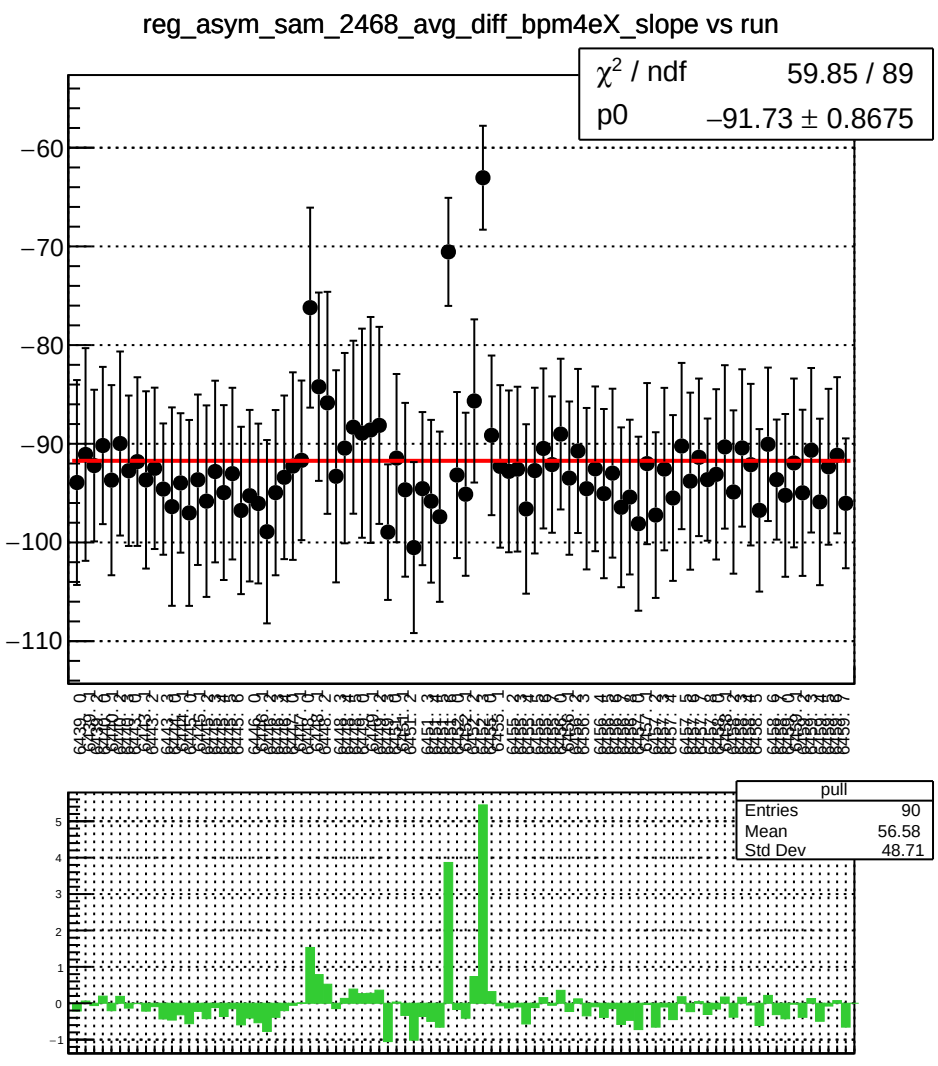

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 14.56 / 89
p0 0.3975 ± 0.02062
pull
Entries 90
Mean 398.1
Std Dev 0
pull1D
Entries 90
Mean 0.0121
Std Dev 0.4021

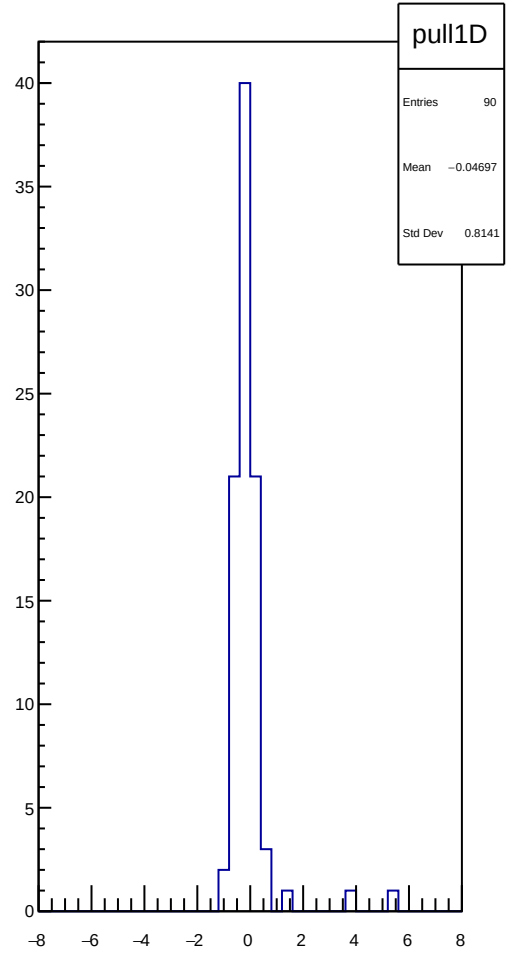

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 97.21 / 89
p0 −6.963 ± 0.8606
pull
Entries 90
Mean 78.72
Std Dev 36.41

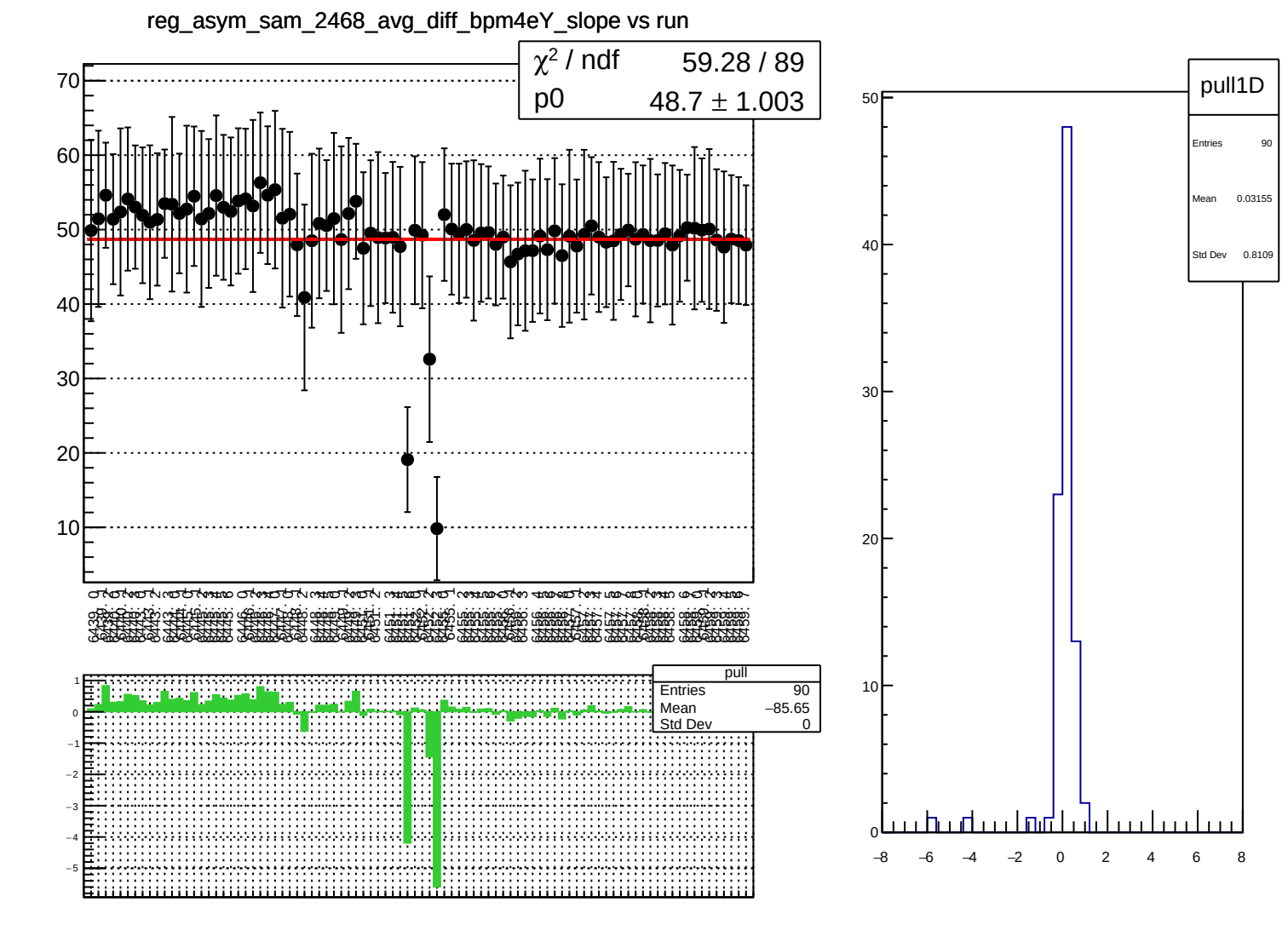

pull1D
Entries 90
Mean 0.05842
Std Dev 1.038

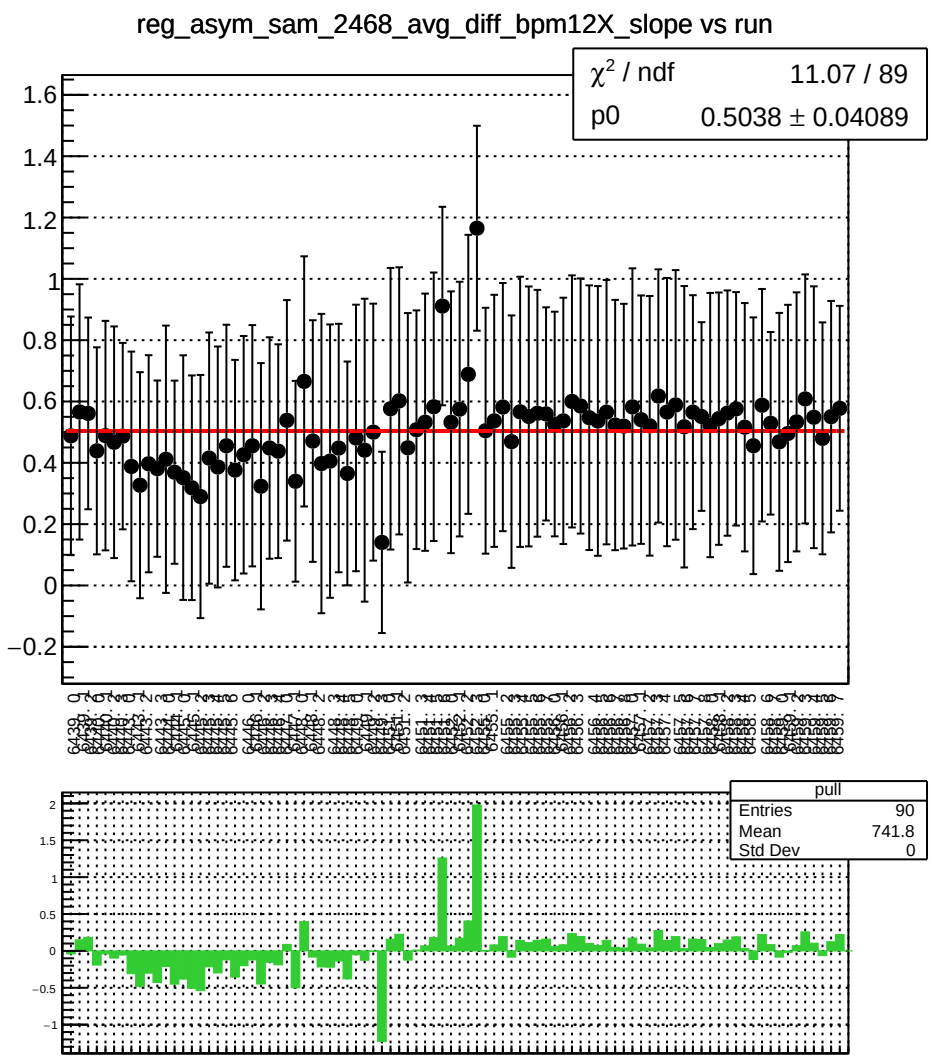

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 75.55 / 89
p0 −4.037 ± 0.9994
pull
Entries 90
Mean −83.52
Std Dev 0

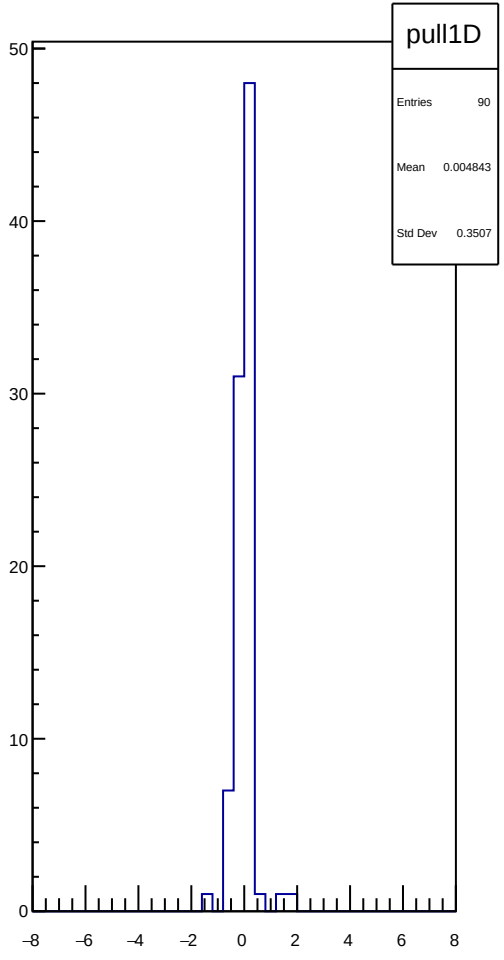

pull1D
Entries 90
Mean −0.02717
Std Dev 0.9158

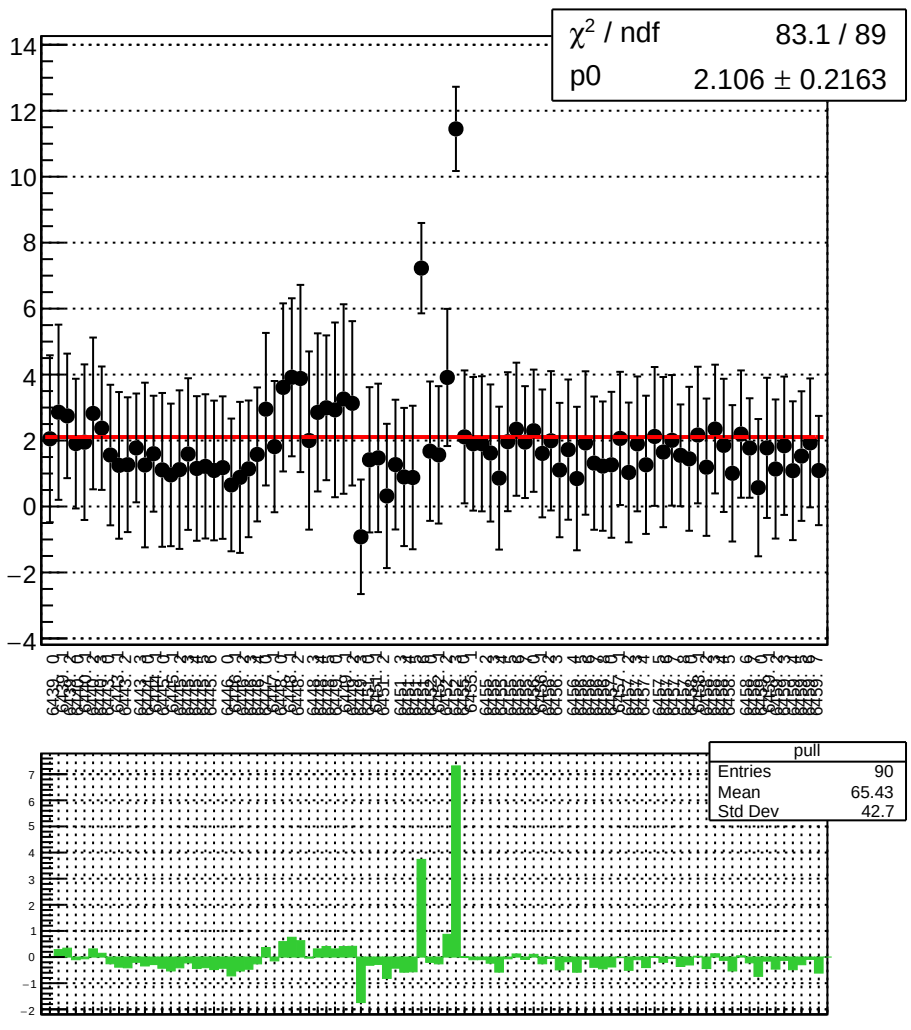

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 59.85 / 89
p0 −91.73 ± 0.8675
pull
Entries 90
Mean 56.58
Std Dev 48.71

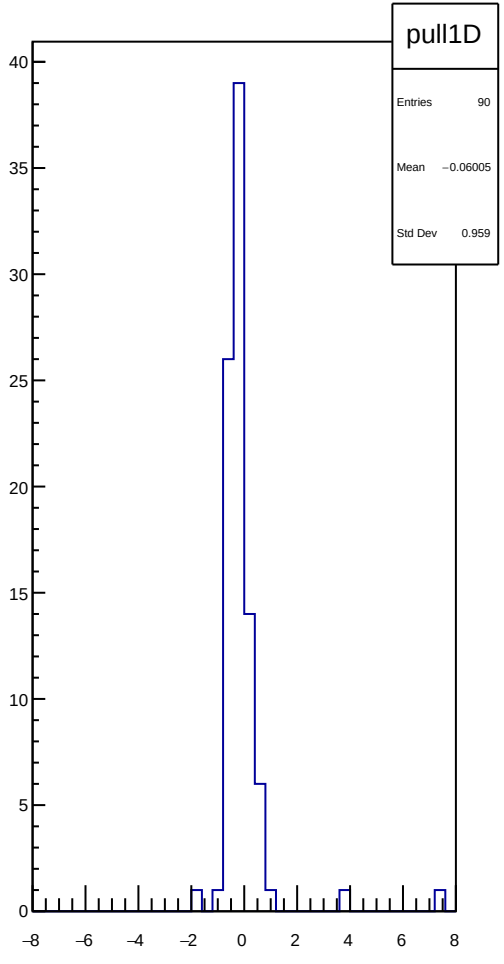

pull1D
Entries 90
Mean −0.04697
Std Dev 0.8141

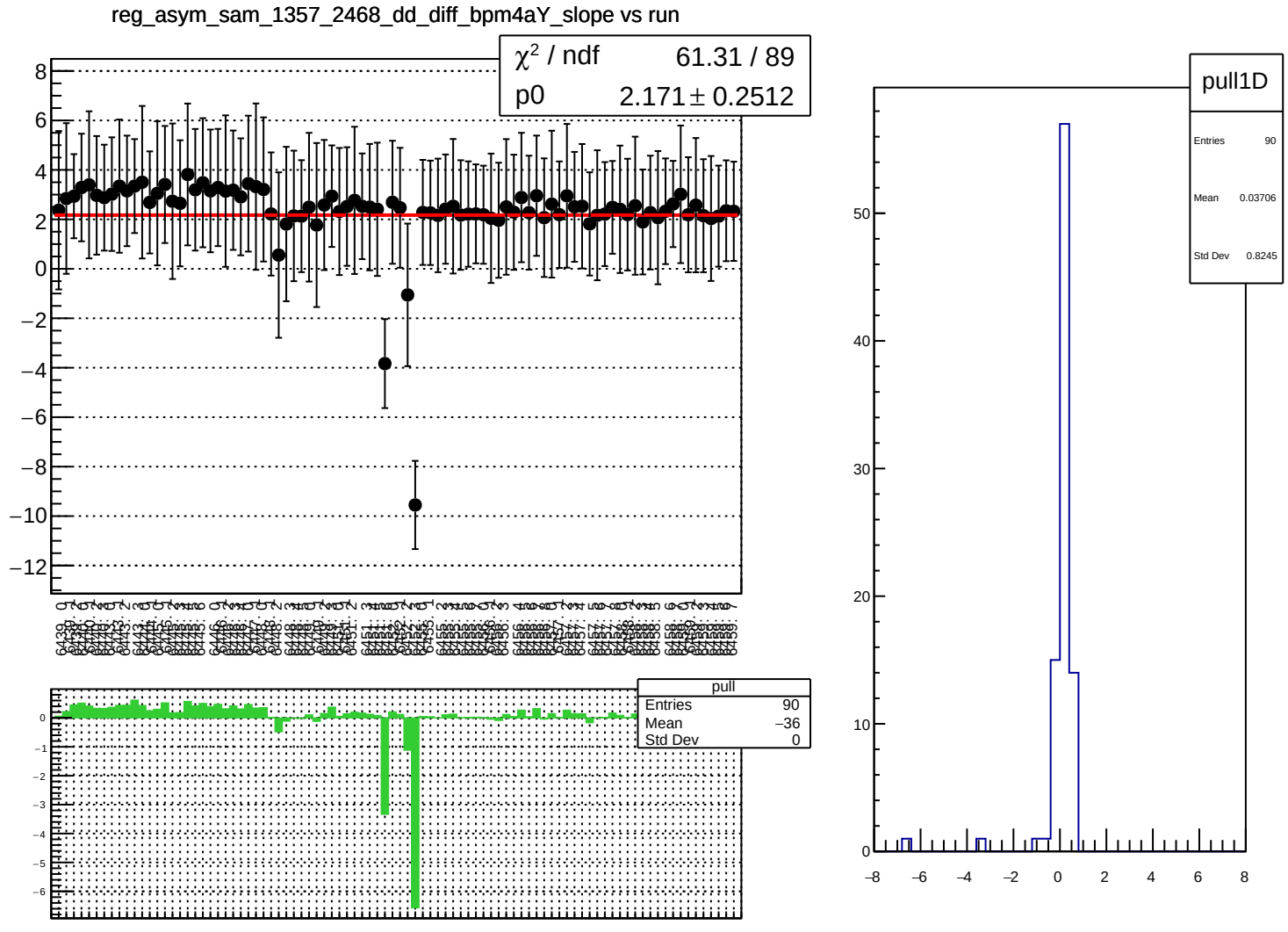

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 59.28 / 89
p0 48.7 ± 1.003
pull
Entries 90
Mean −85.65
Std Dev 0
pull1D
Entries 90
Mean 0.03155
Std Dev 0.8109

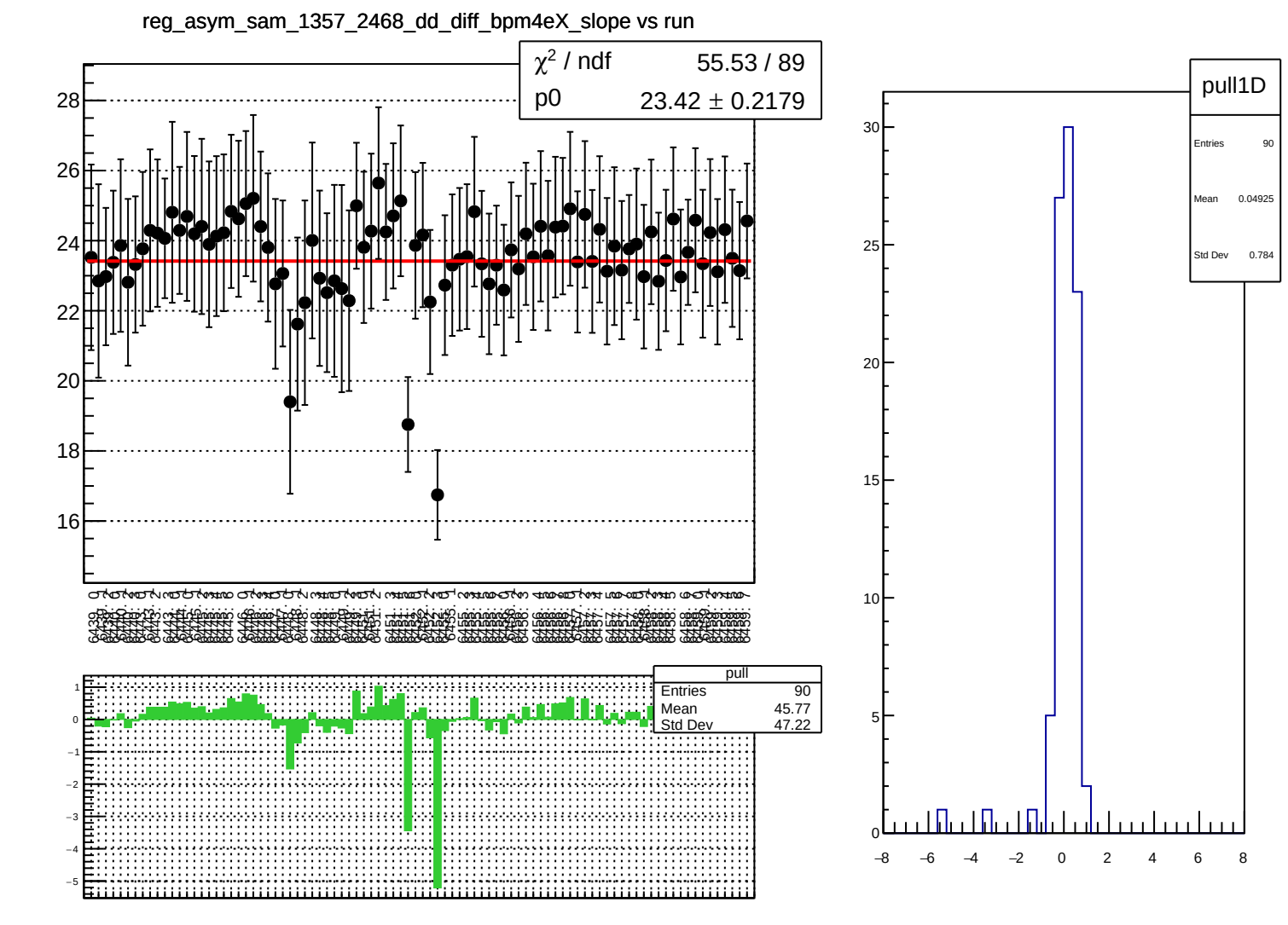

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 11.07 / 89
p0 0.5038 ± 0.04089
pull
Entries 90
Mean 741.8
Std Dev 0

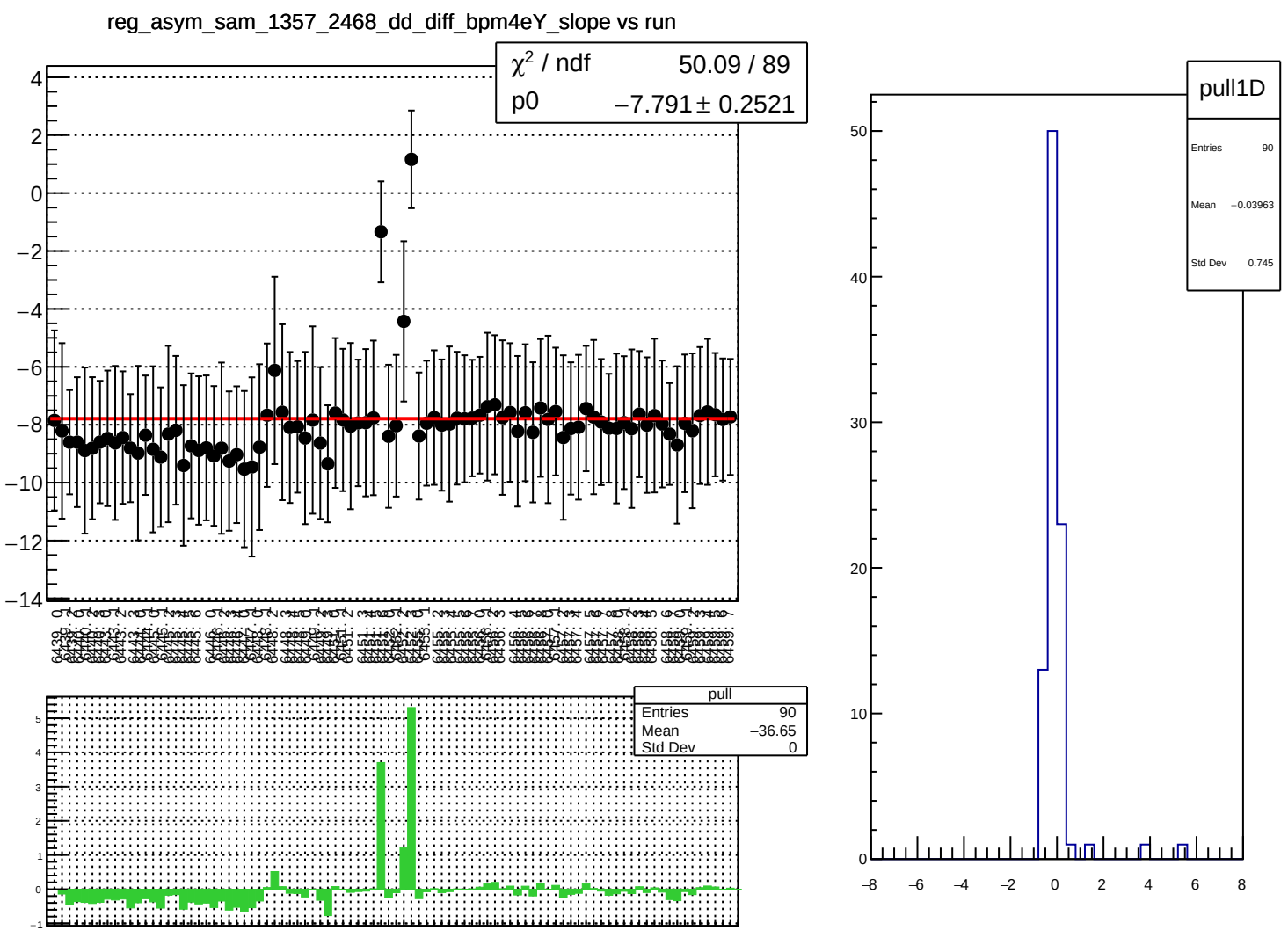

pull1D
Entries 90
Mean 0.004843
Std Dev 0.3507

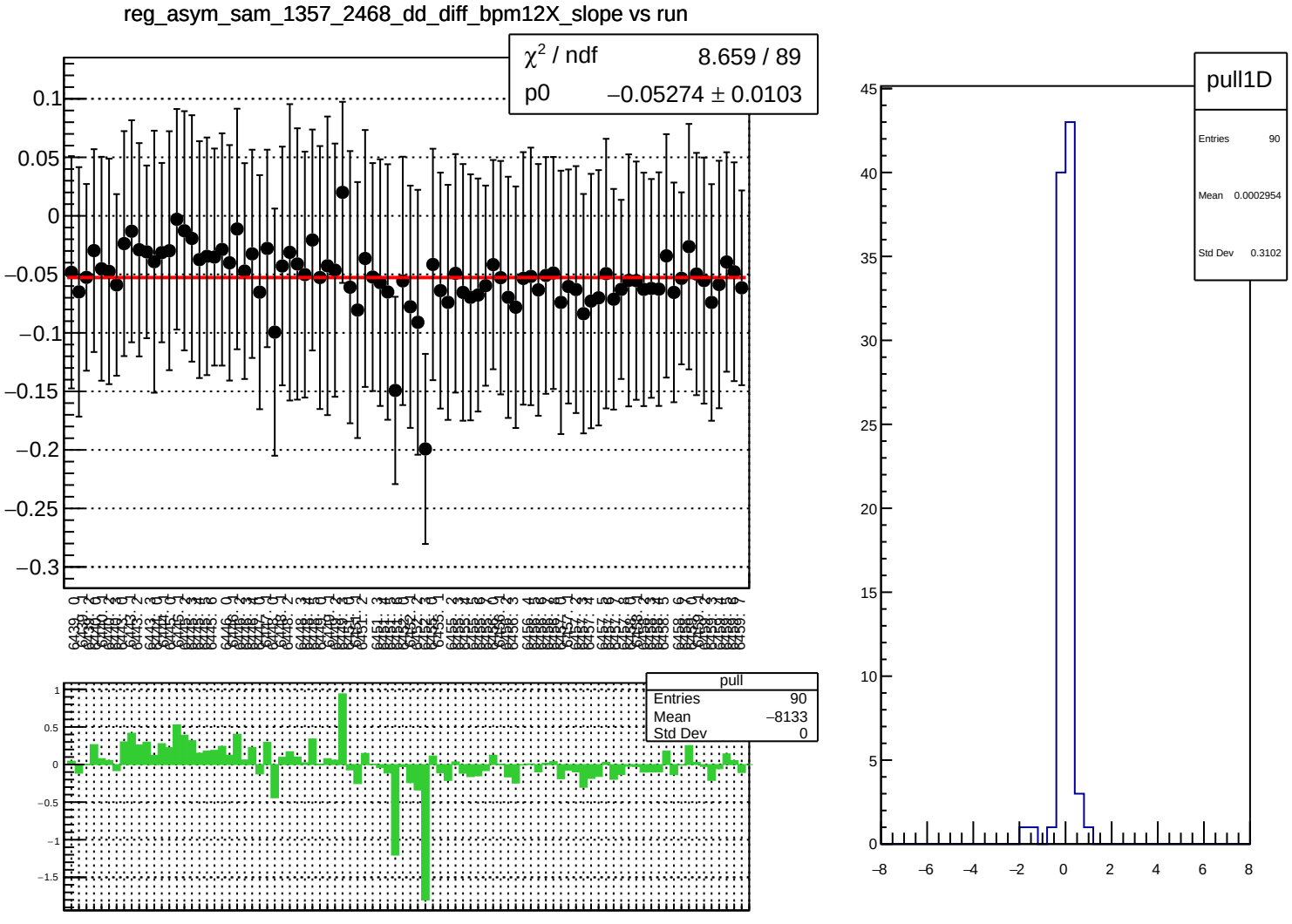

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 83.1 / 89
p0 2.106 ± 0.2163
pull
Entries 90
Mean 65.43
Std Dev 42.7

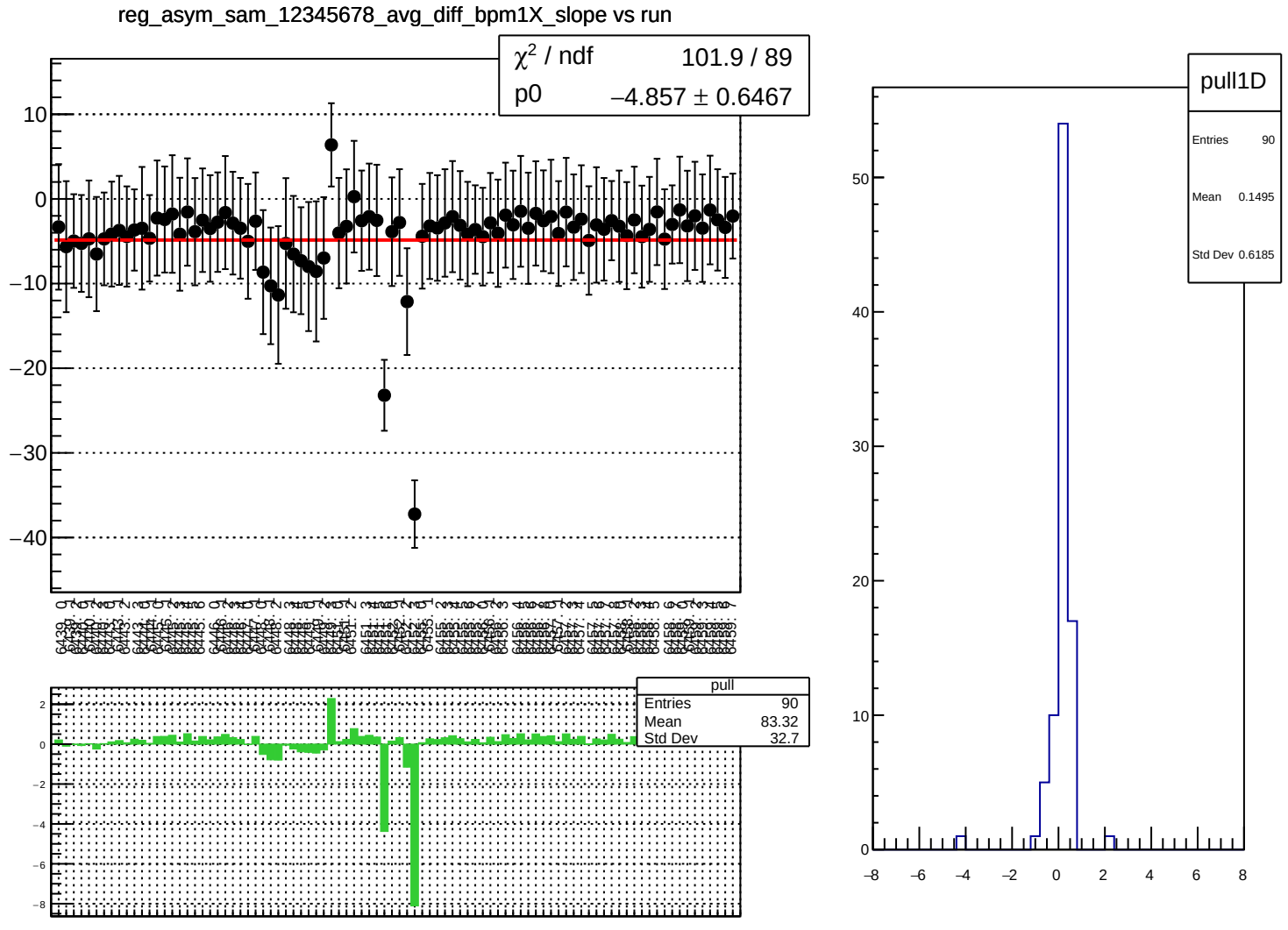

pull1D
Entries 90
Mean −0.06005
Std Dev 0.959

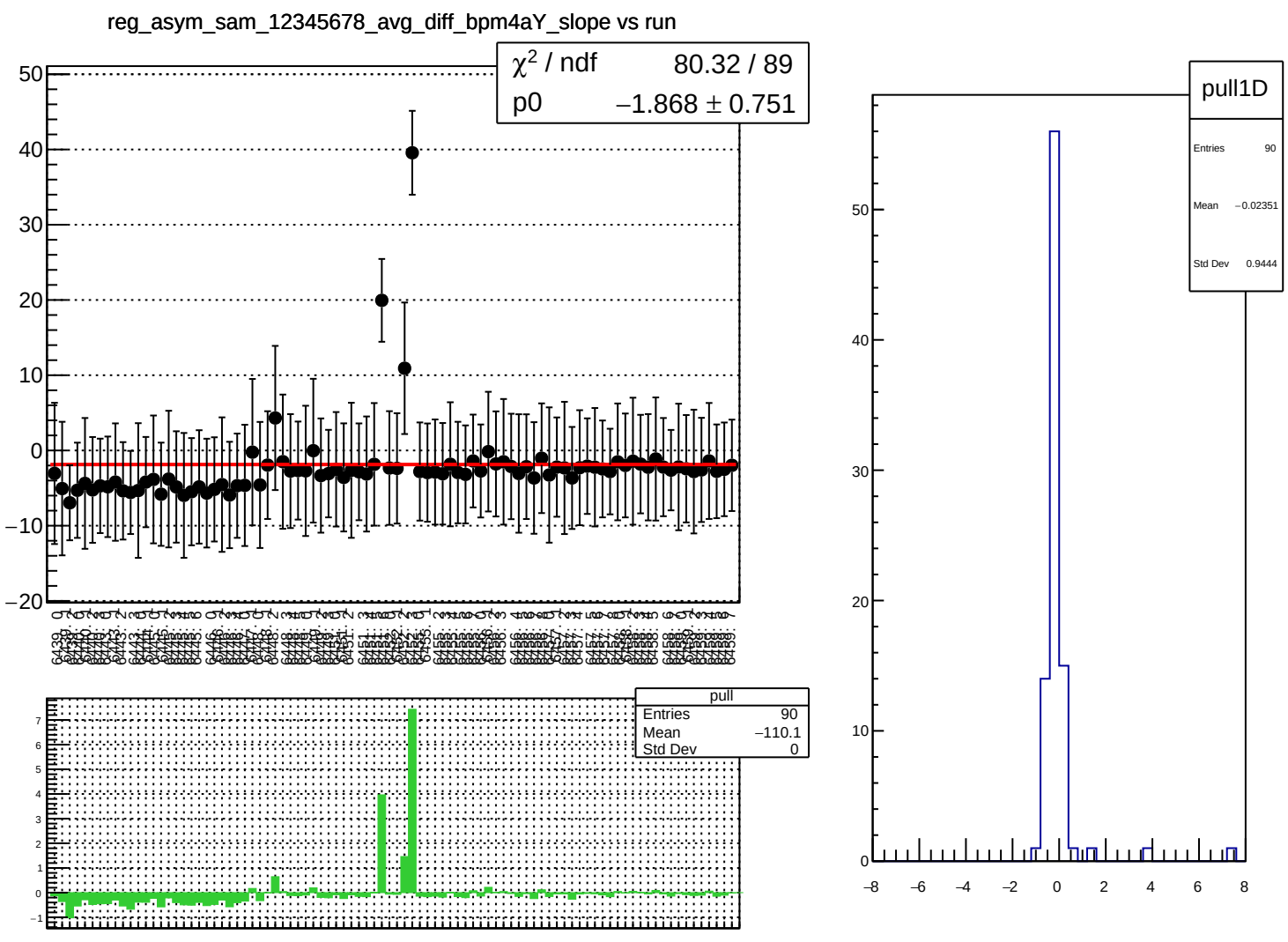

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 61.31 / 89
p0 2.171 ± 0.2512
pull
Entries 90
Mean −36
Std Dev 0
pull1D
Entries 90
Mean 0.03706
Std Dev 0.8245

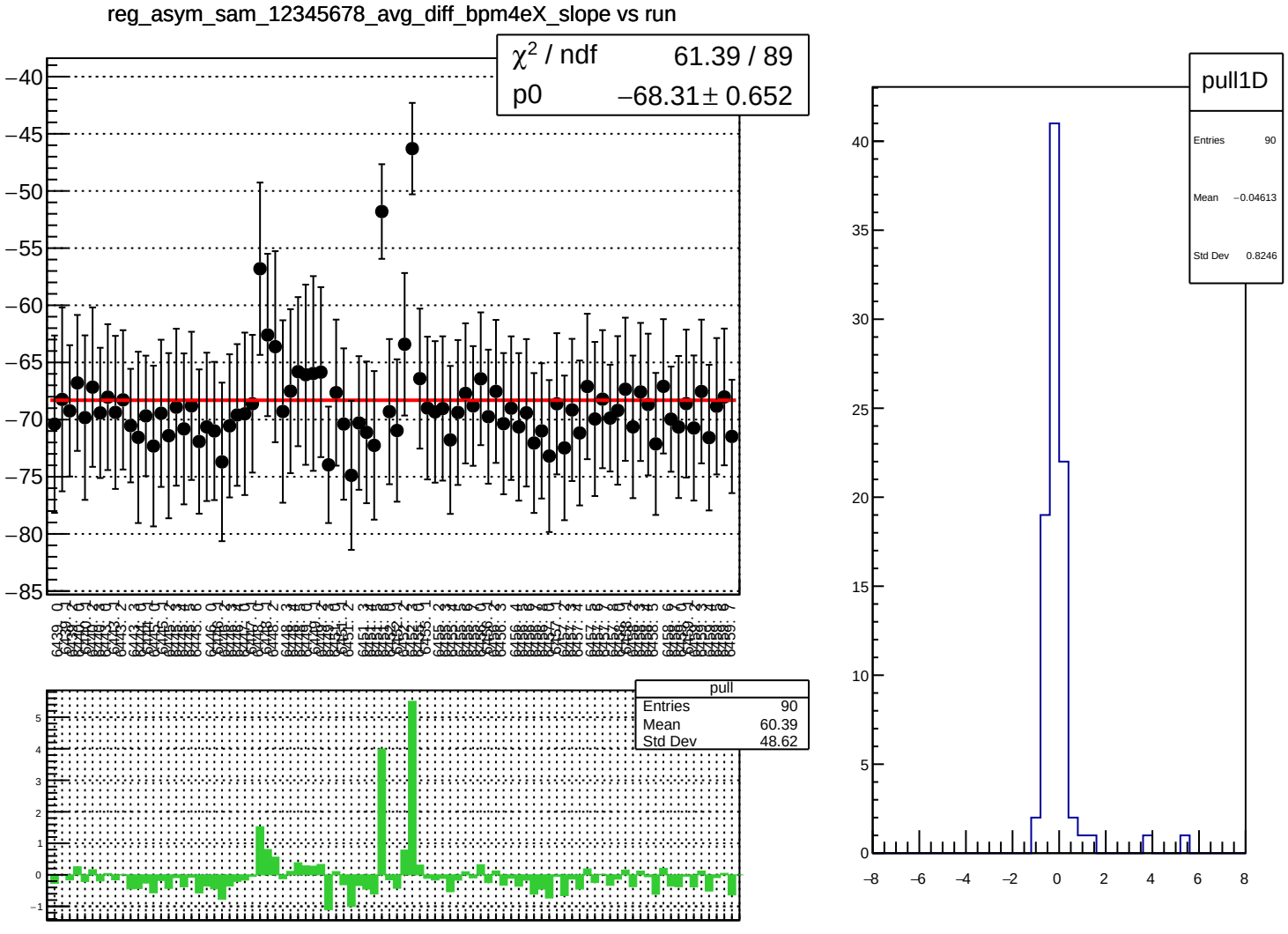

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 55.53 / 89
p0 23.42 ± 0.2179
pull
Entries 90
Mean 45.77
Std Dev 47.22
pull1D
Entries 90
Mean 0.04925
Std Dev 0.784

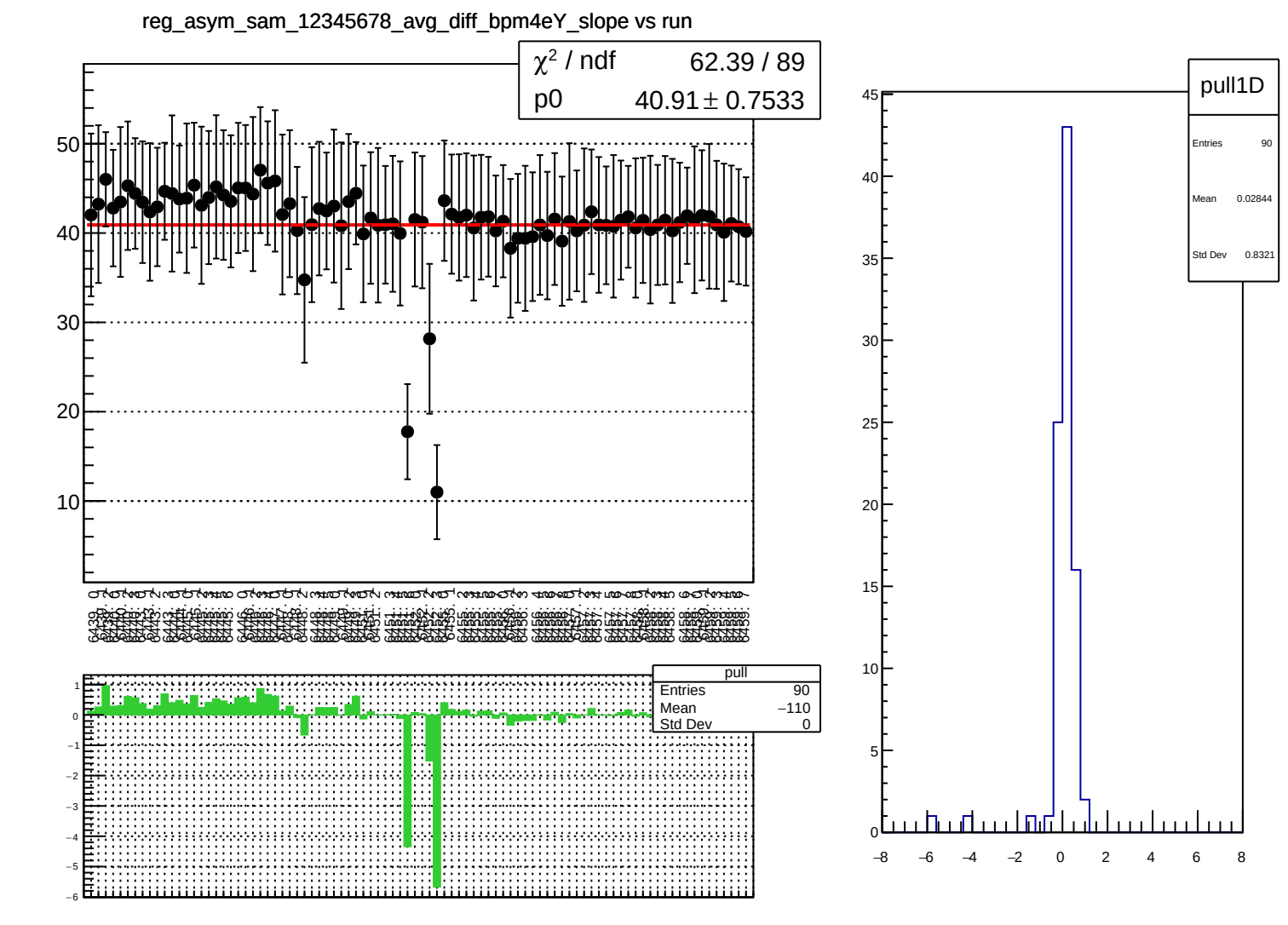

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 50.09 / 89
p0 −7.791 ± 0.2521
pull
Entries 90
Mean −36.65
Std Dev 0
pull1D
Entries 90
Mean −0.03963
Std Dev 0.745

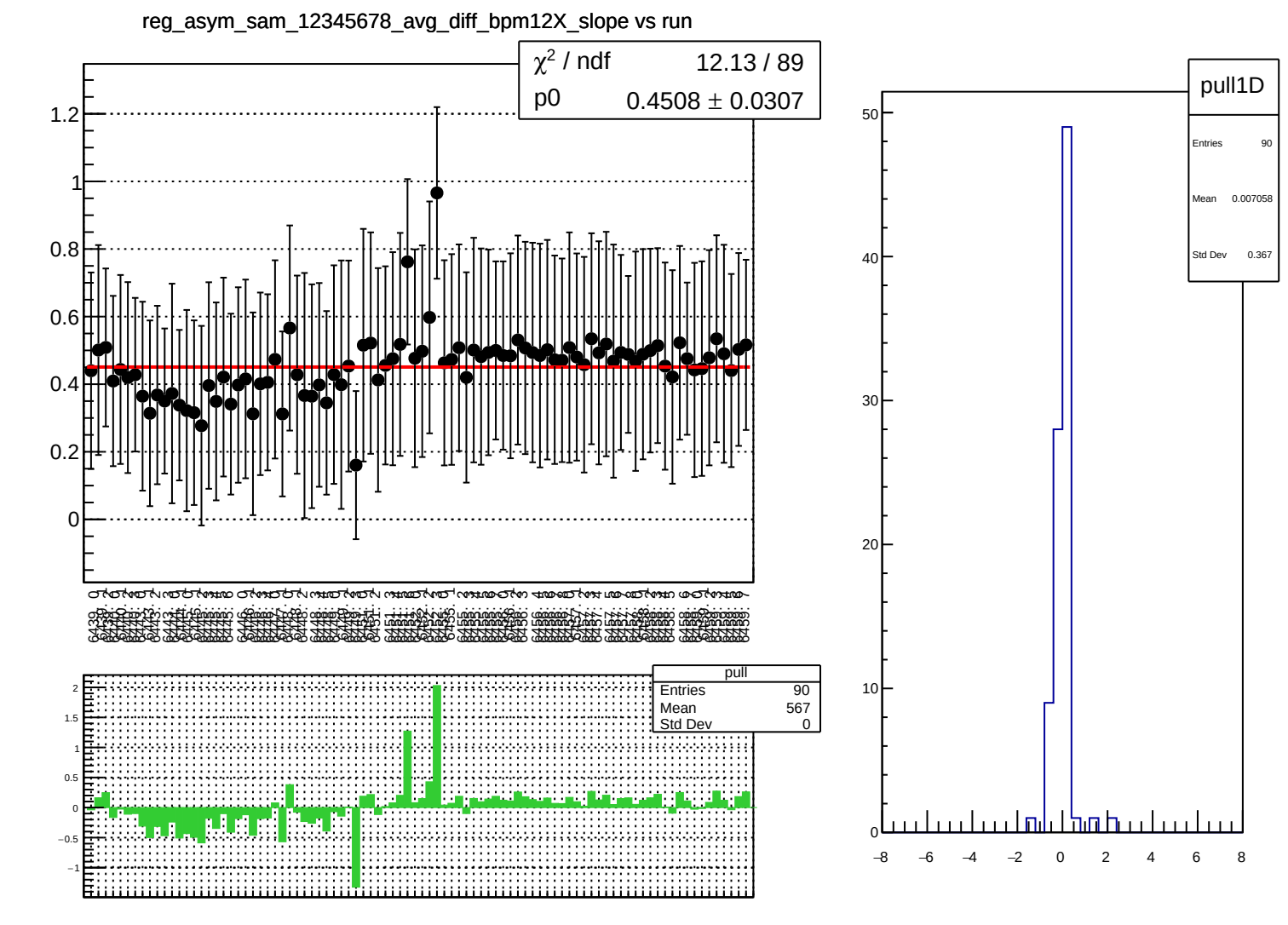

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 8.659 / 89
p0 −0.05274 ± 0.0103
pull
Entries 90
Mean −8133
Std Dev 0
pull1D
Entries 90
Mean 0.0002954
Std Dev 0.3102

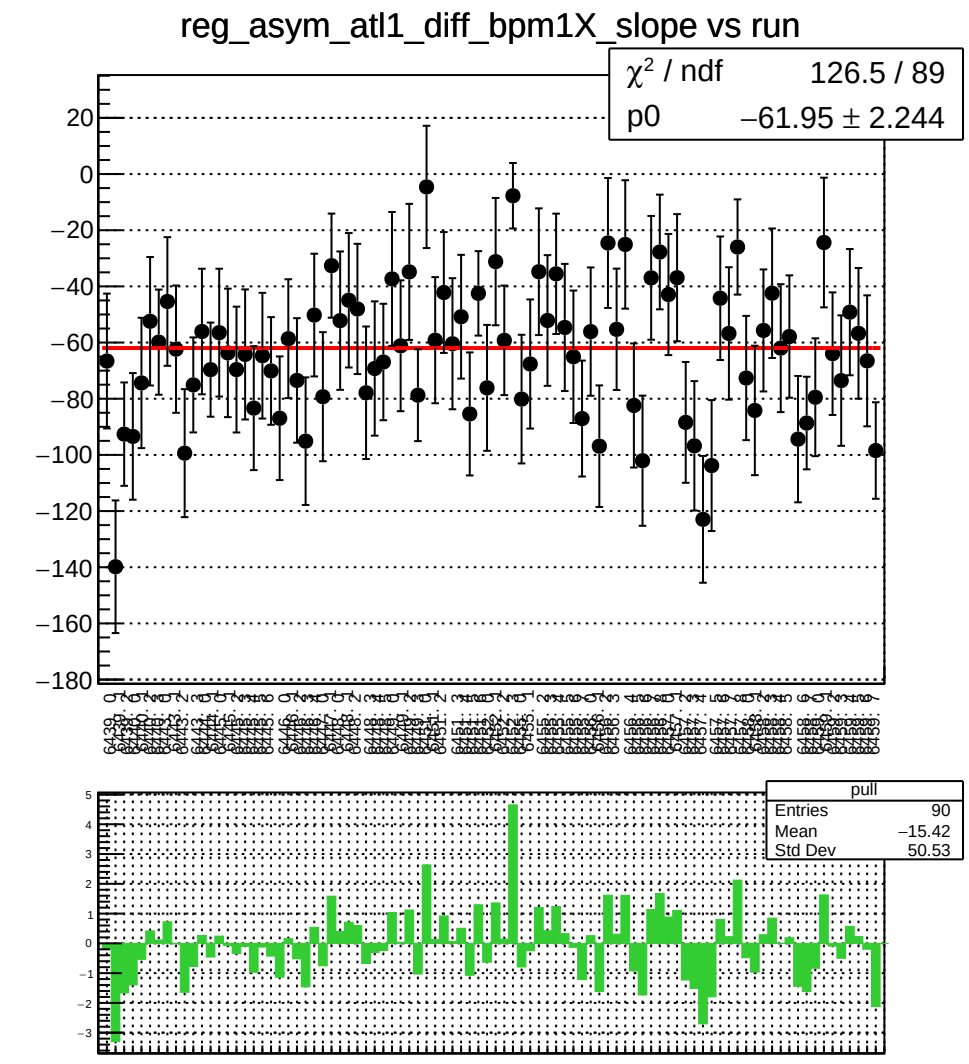

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 101.9 / 89
p0 −4.857 ± 0.6467
pull
Entries 90
Mean 83.32
Std Dev 32.7
pull1D
Entries 90
Mean 0.1495
Std Dev 0.6185

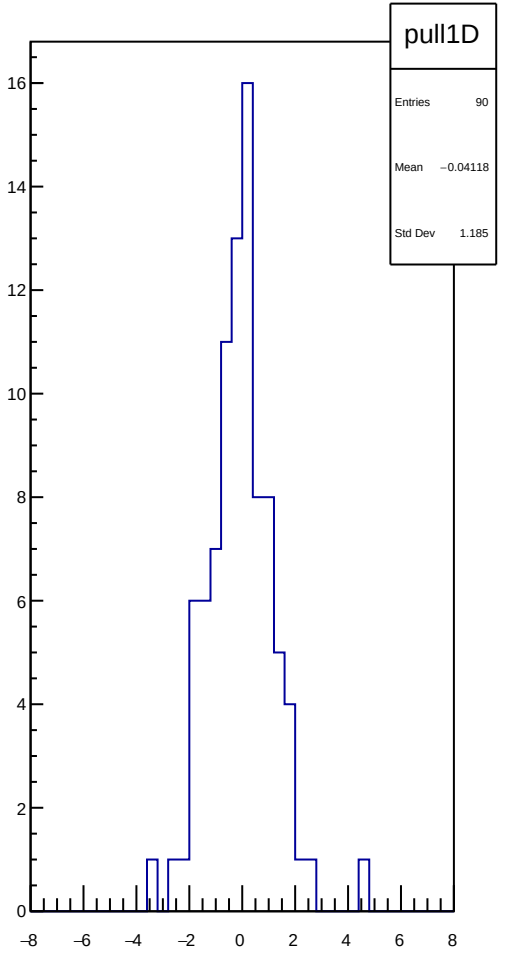

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 80.32 / 89
p0 −1.868 ± 0.751
pull
Entries 90
Mean −110.1
Std Dev 0
pull1D
Entries 90
Mean −0.02351
Std Dev 0.9444

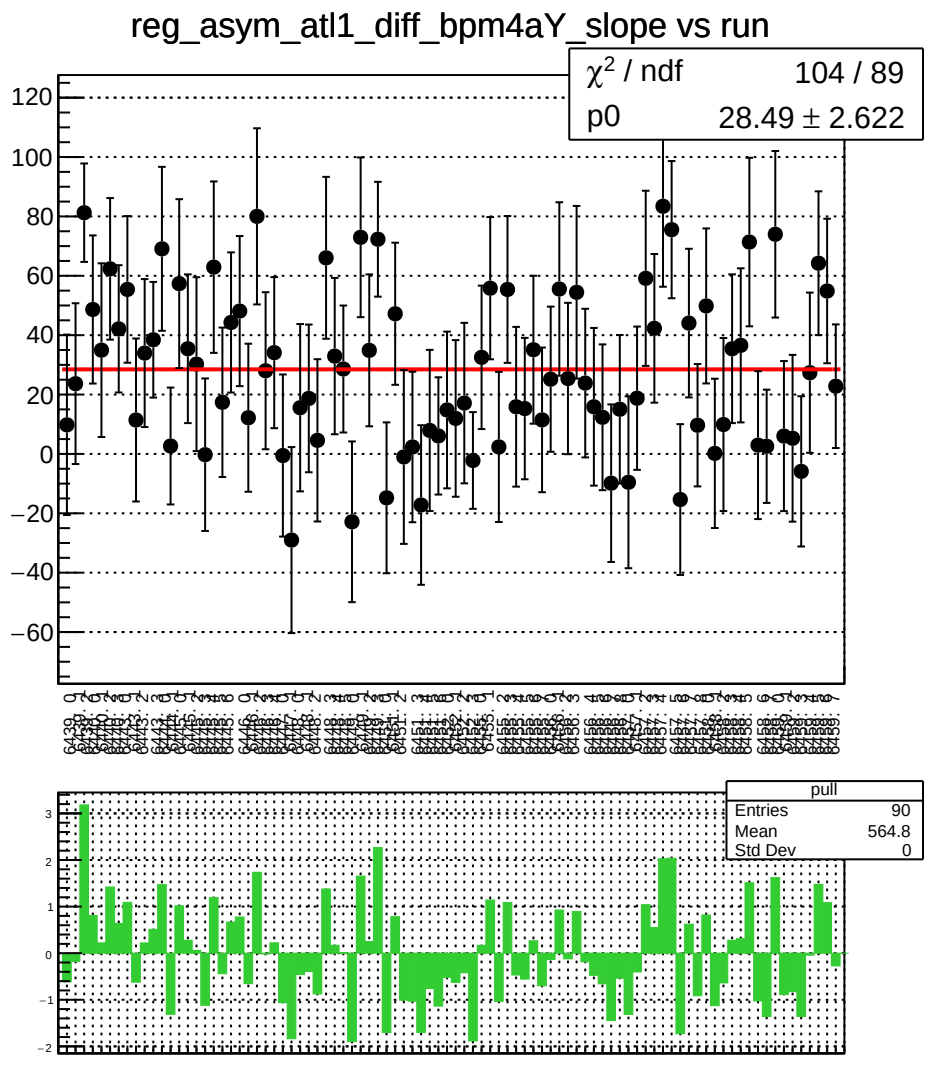

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 61.39 / 89
p0 −68.31 ± 0.652
pull
Entries 90
Mean 60.39
Std Dev 48.62
pull1D
Entries 90
Mean −0.04613
Std Dev 0.8246

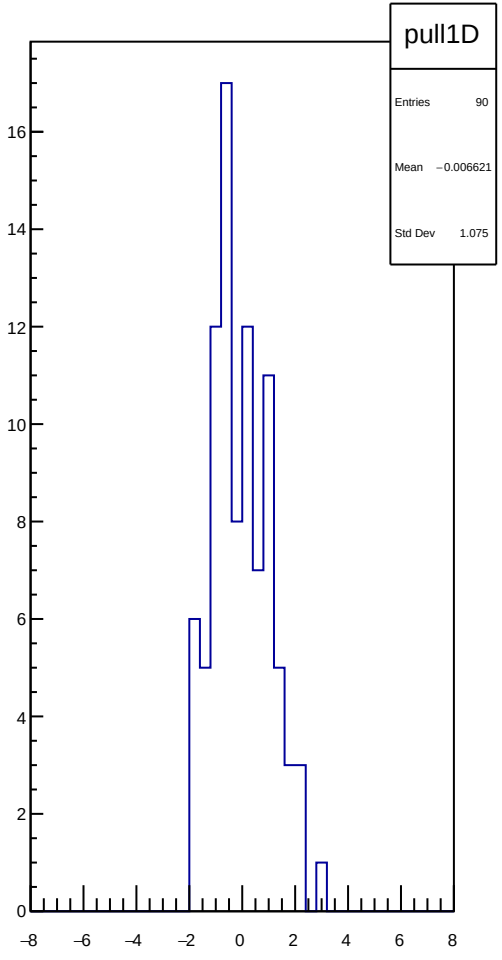

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 62.39 / 89
p0 40.91 ± 0.7533
pull
Entries 90
Mean −110
Std Dev 0
pull1D
Entries 90
Mean 0.02844
Std Dev 0.8321

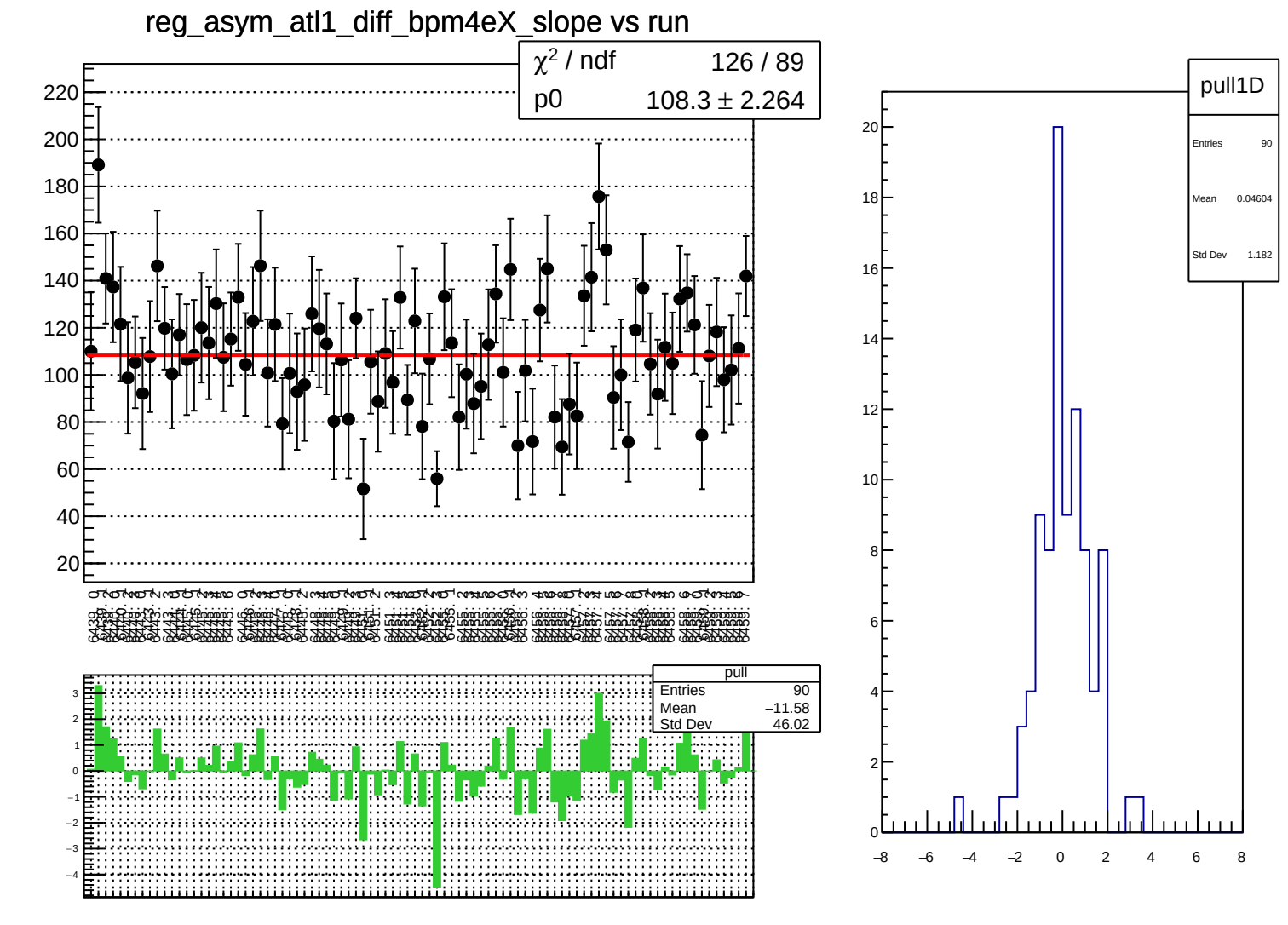

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 12.13 / 89
p0 0.4508 ± 0.0307
pull
Entries 90
Mean 567
Std Dev 0
pull1D
Entries 90
Mean 0.007058
Std Dev 0.367

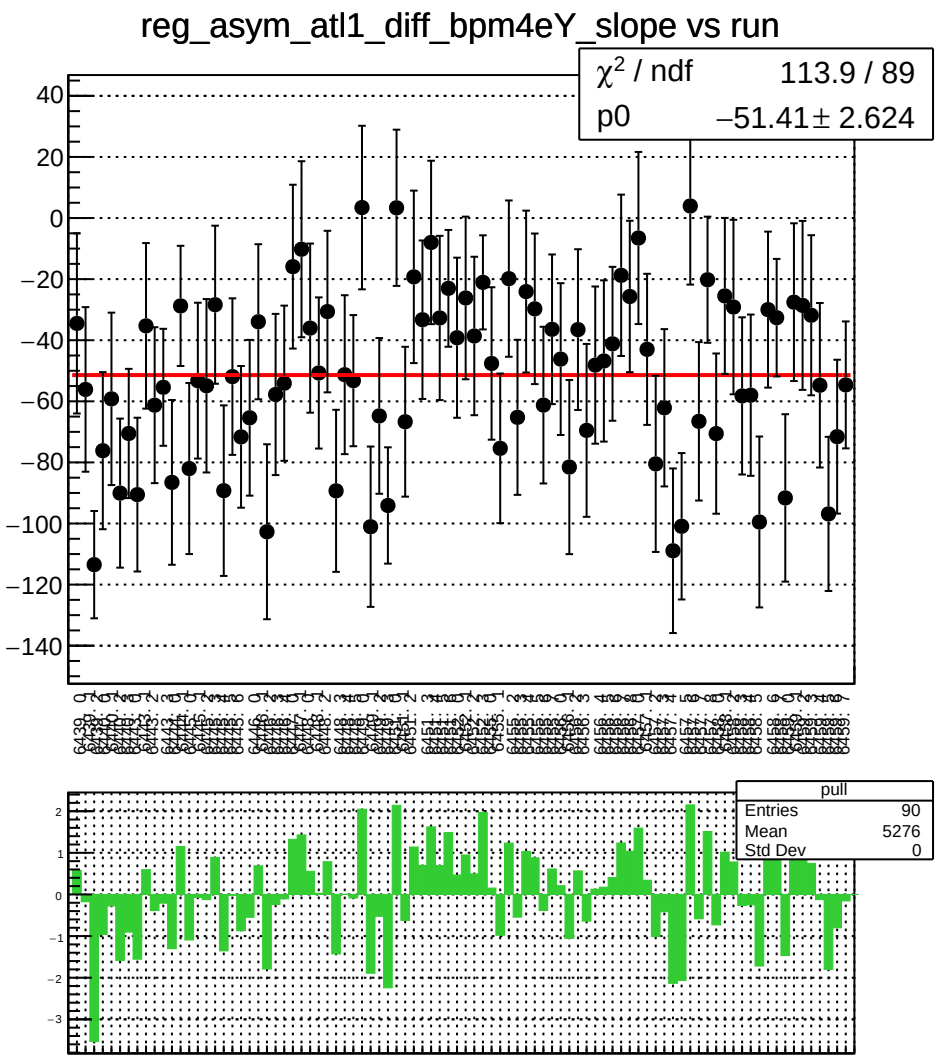

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 126.5 / 89
p0 −61.95 ± 2.244
pull
Entries 90
Mean −15.42
Std Dev 50.53

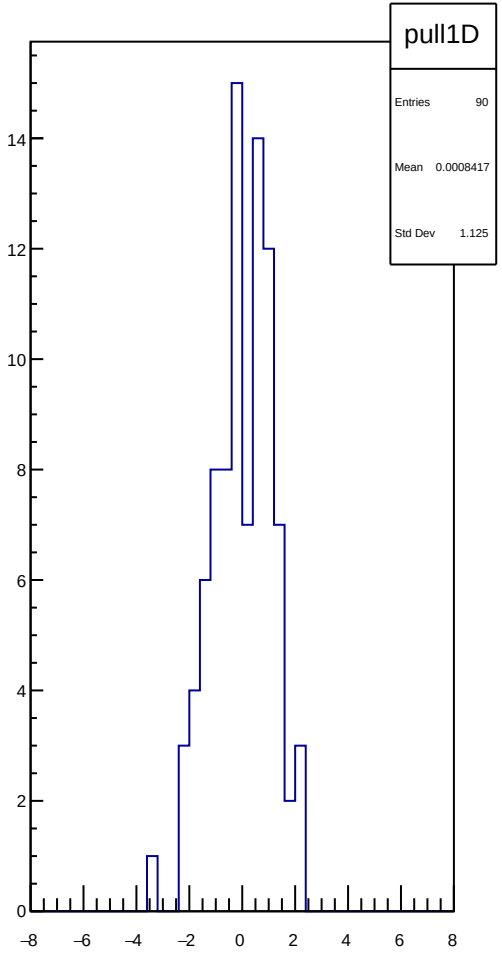

pull1D
Entries 90
Mean −0.04118
Std Dev 1.185

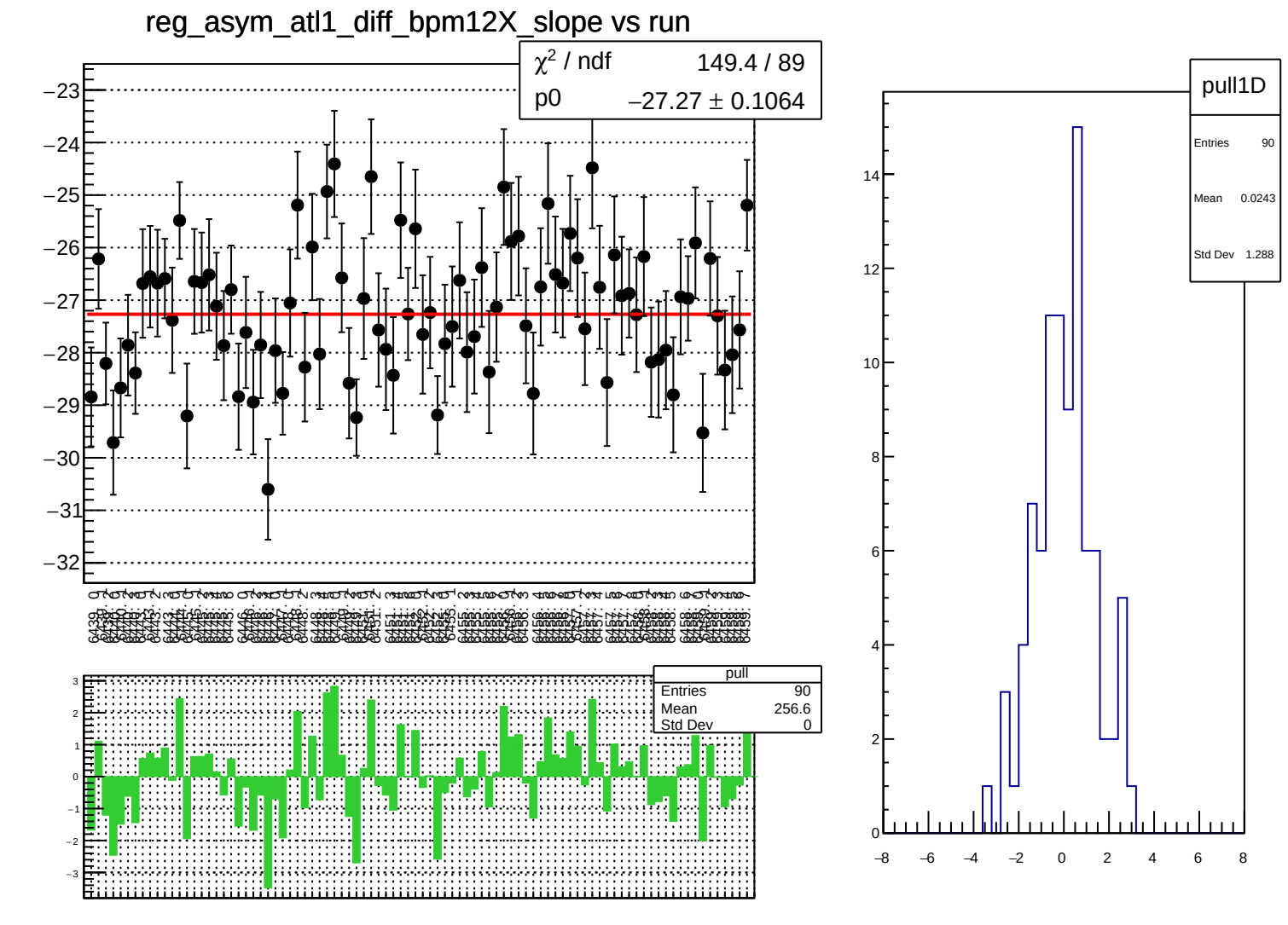

reg_asym_atl1_diff_bpm4aY_slope vs run
χ^2 / ndf 104 / 89
p0 28.49 ± 2.622
pull
Entries 90
Mean 564.8
Std Dev 0

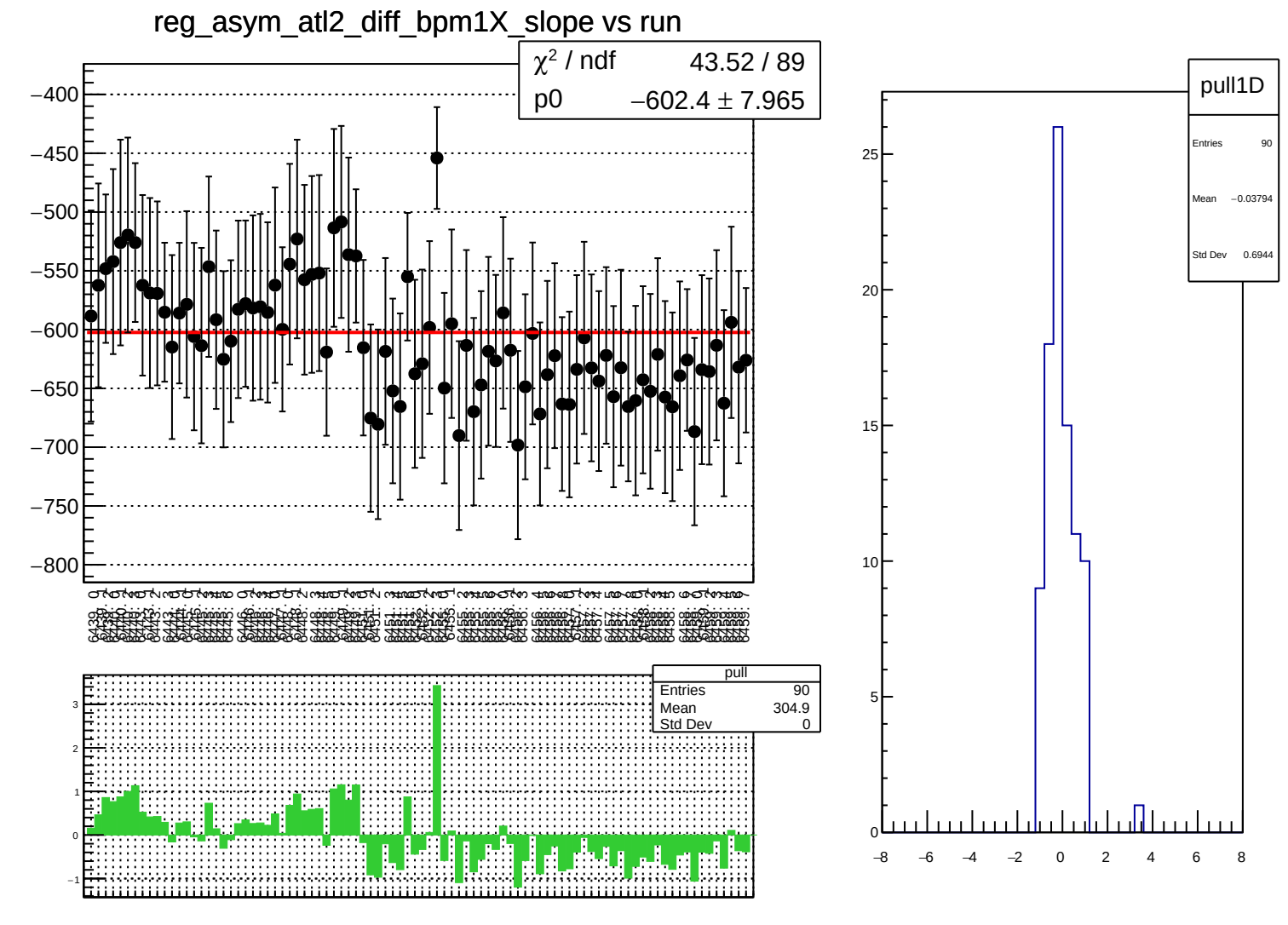

pull1D
Entries 90
Mean −0.006621
Std Dev 1.075

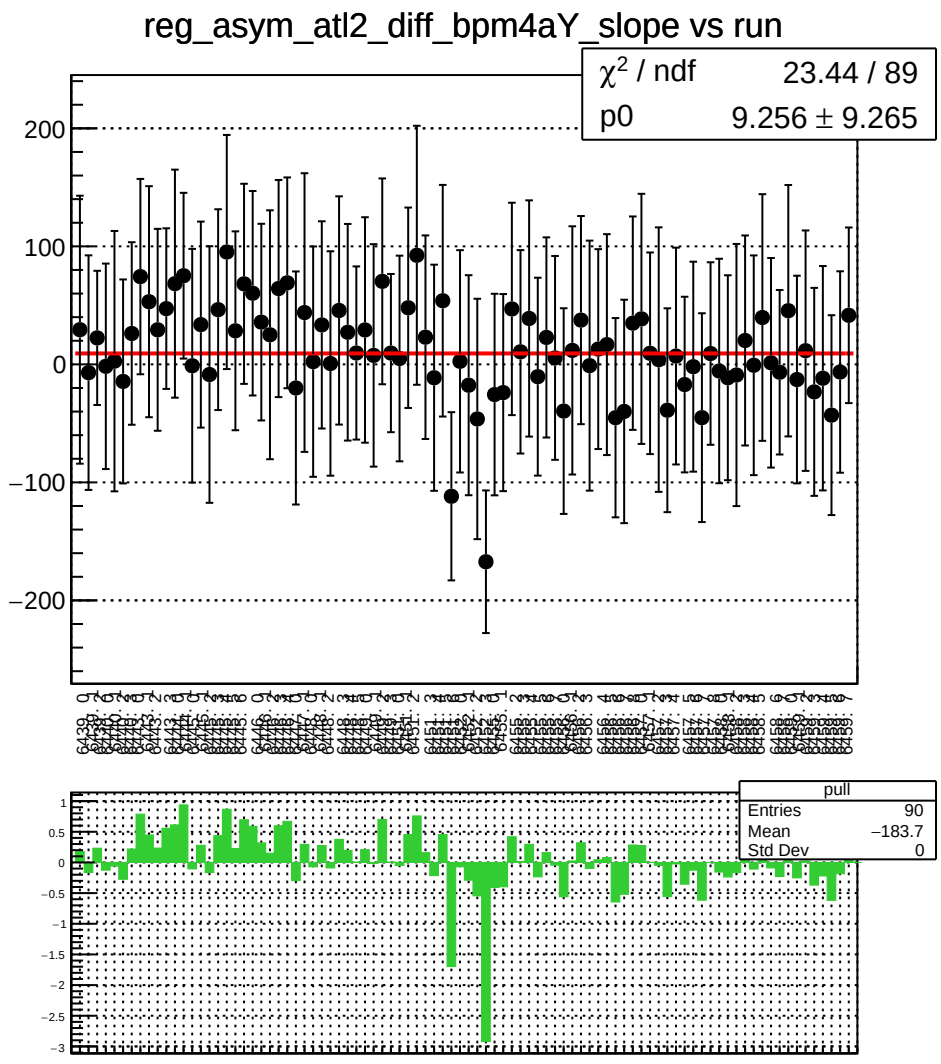

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 126 / 89
p0 108.3 ± 2.264
pull
Entries 90
Mean −11.58
Std Dev 46.02
pull1D
Entries 90
Mean 0.04604
Std Dev 1.182

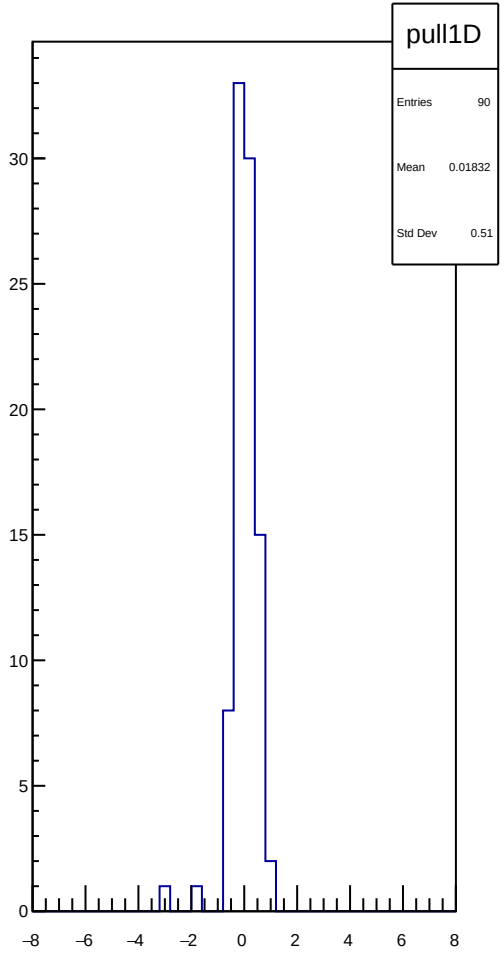

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 113.9 / 89
p0 −51.41 ± 2.624
pull
Entries 90
Mean 5276
Std Dev 0

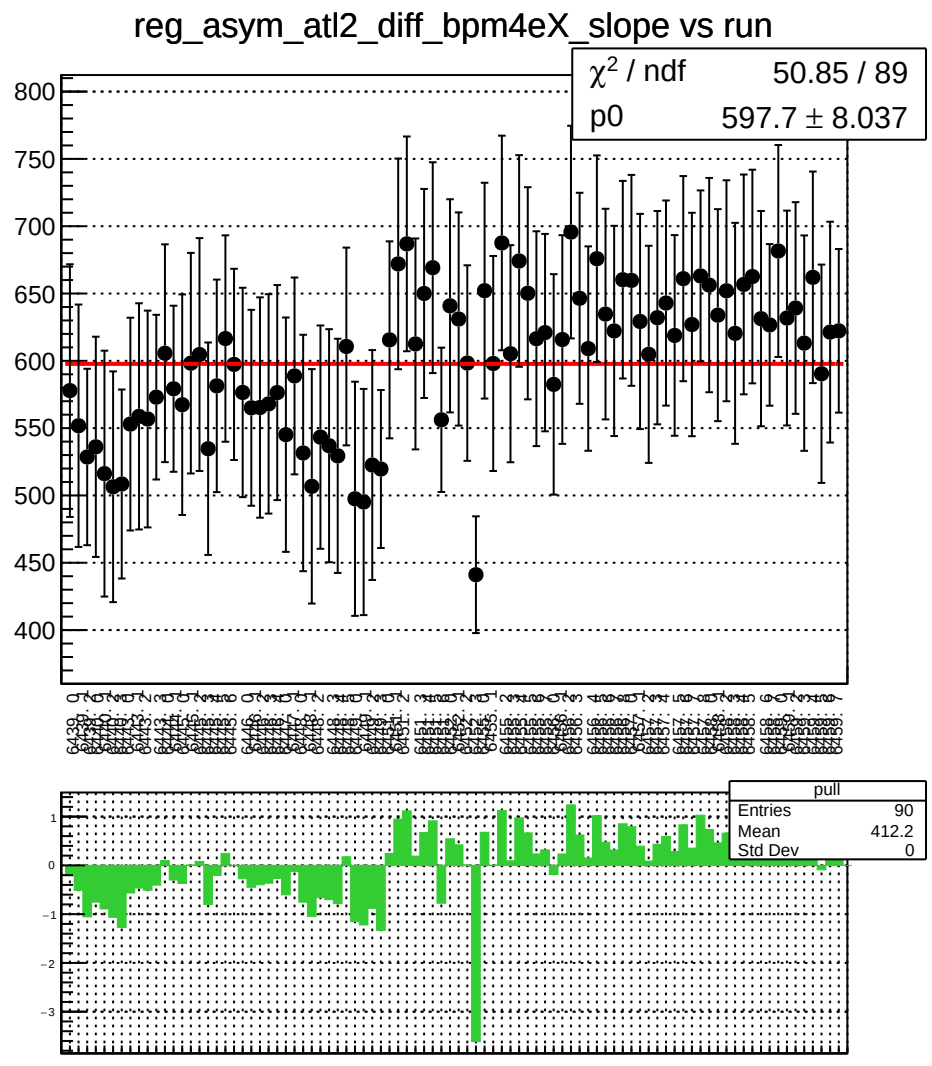

pull1D
Entries 90
Mean 0.0008417
Std Dev 1.125

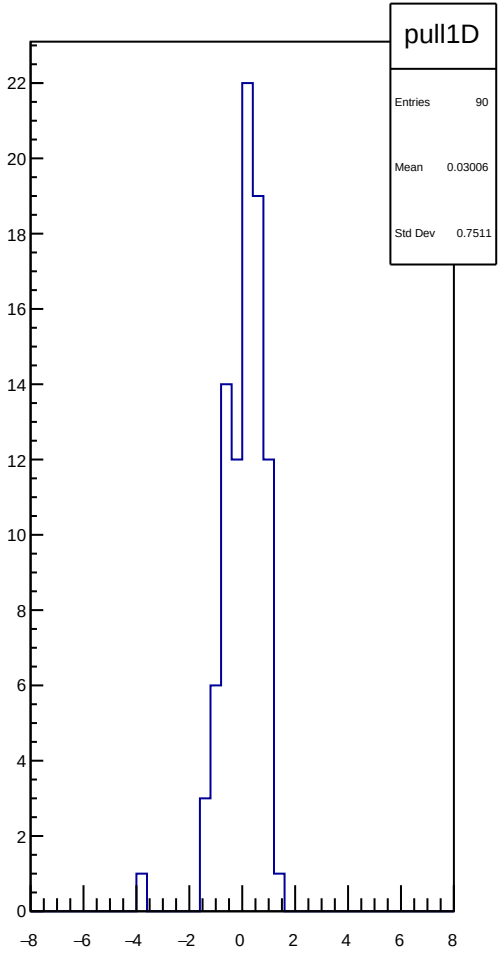

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 149.4 / 89
p0 −27.27 ± 0.1064
pull
Entries 90
Mean 256.6
Std Dev 0
pull1D
Entries 90
Mean 0.0243
Std Dev 1.288

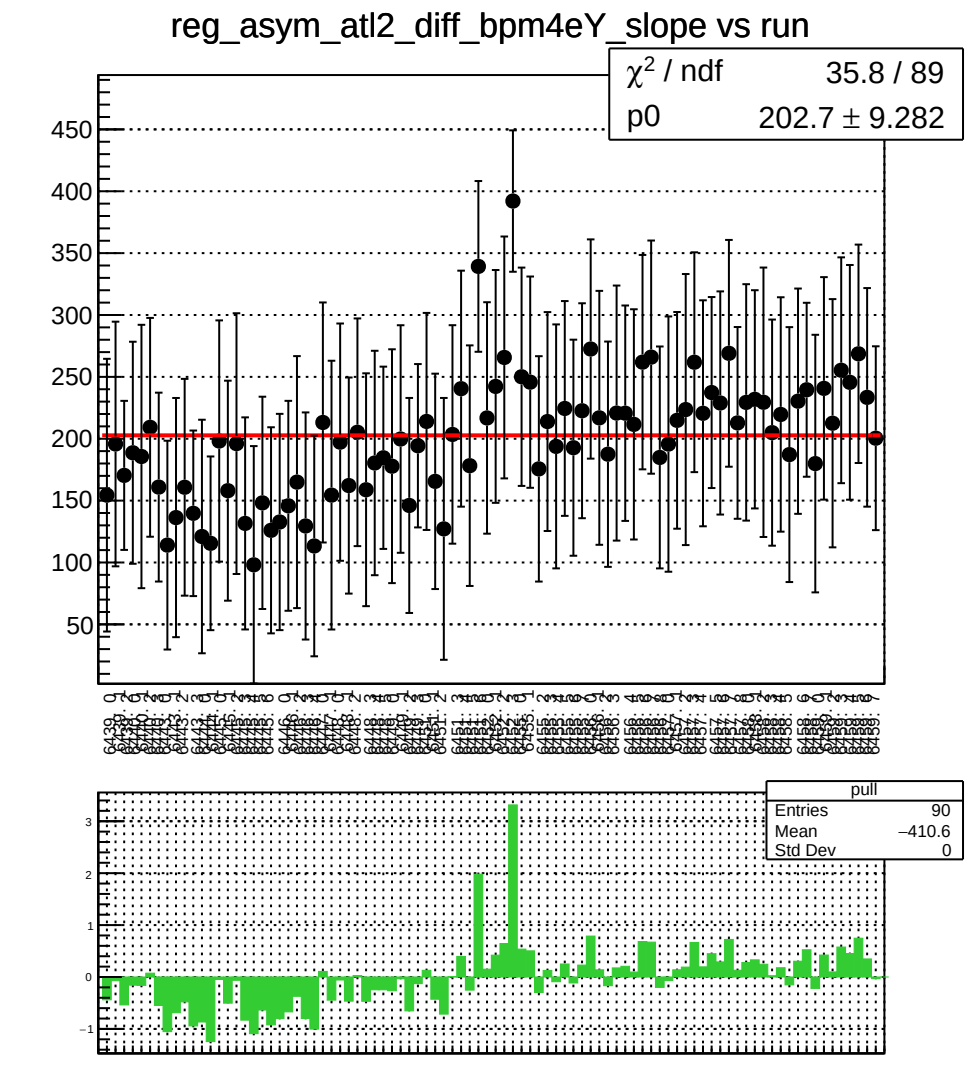

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 43.52 / 89
p0 −602.4 ± 7.965
−400
−450
−500
−550
−600
−650
−700
−750
−800
pull
Entries 90
Mean 304.9
Std Dev 0
3
2
1
0
−1
pull1D
Entries 90
Mean −0.03794
Std Dev 0.6944
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

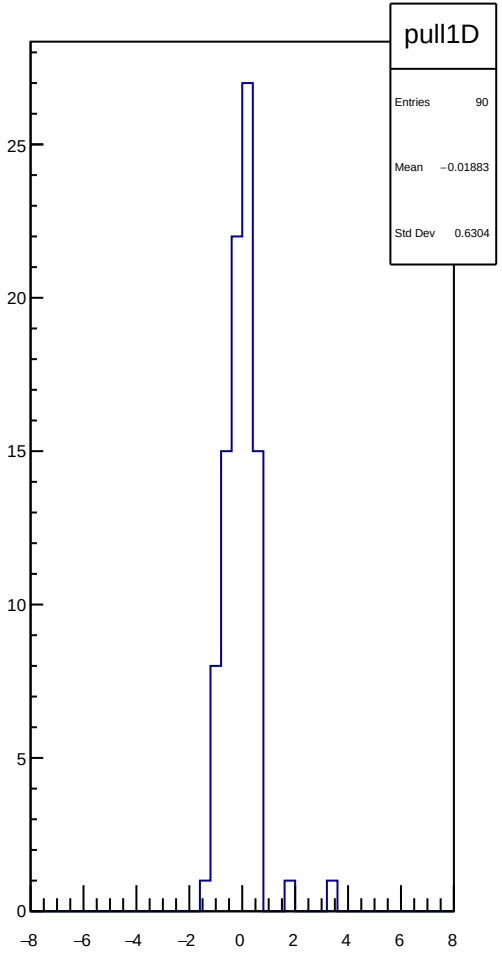

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 23.44 / 89
p0 9.256 ± 9.265
200
100
0
−100
−200
pull
Entries 90
Mean −183.7
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

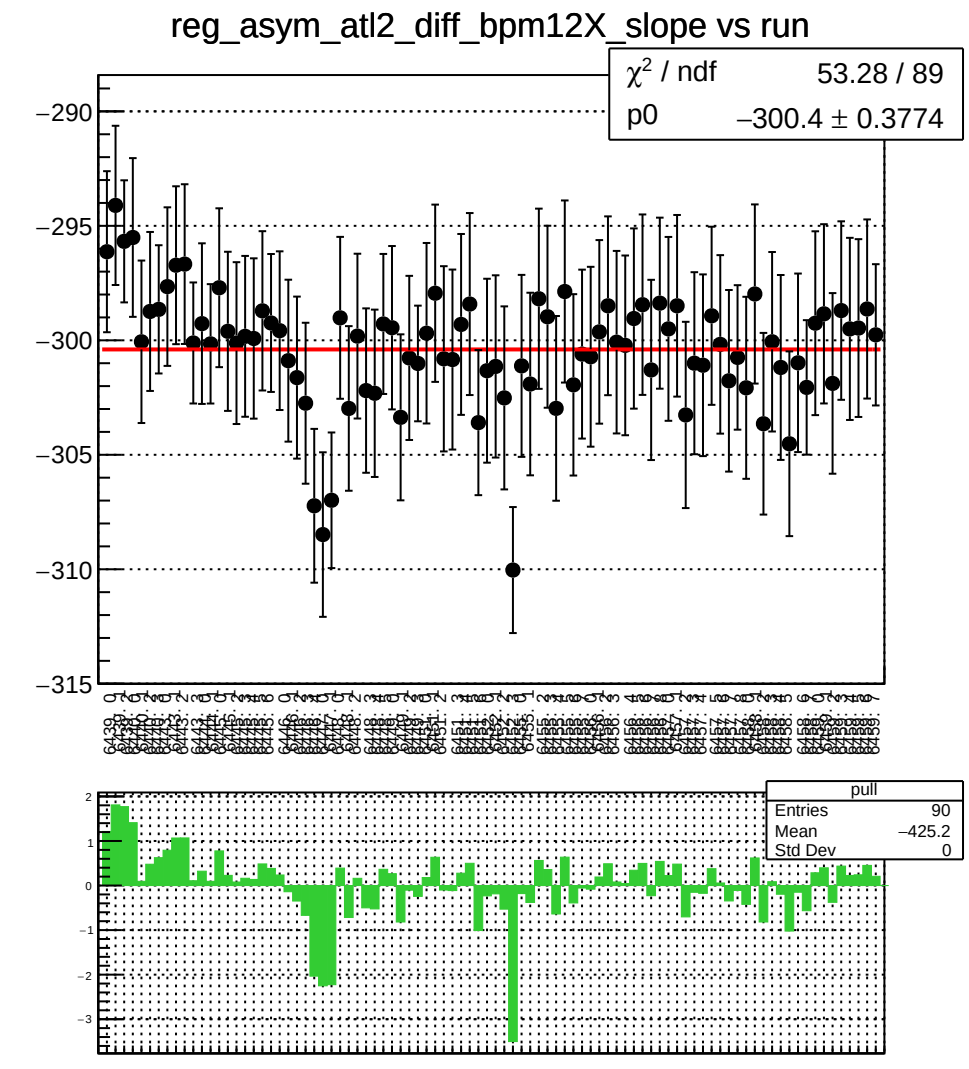

pull1D
Entries 90
Mean 0.01832
Std Dev 0.51
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

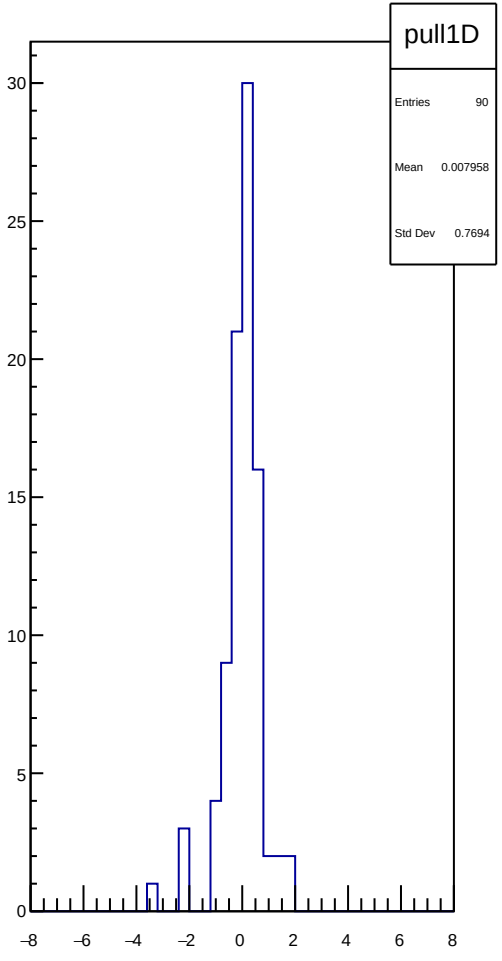

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 50.85 / 89
p0 597.7 ± 8.037
pull
Entries 90
Mean 412.2
Std Dev 0

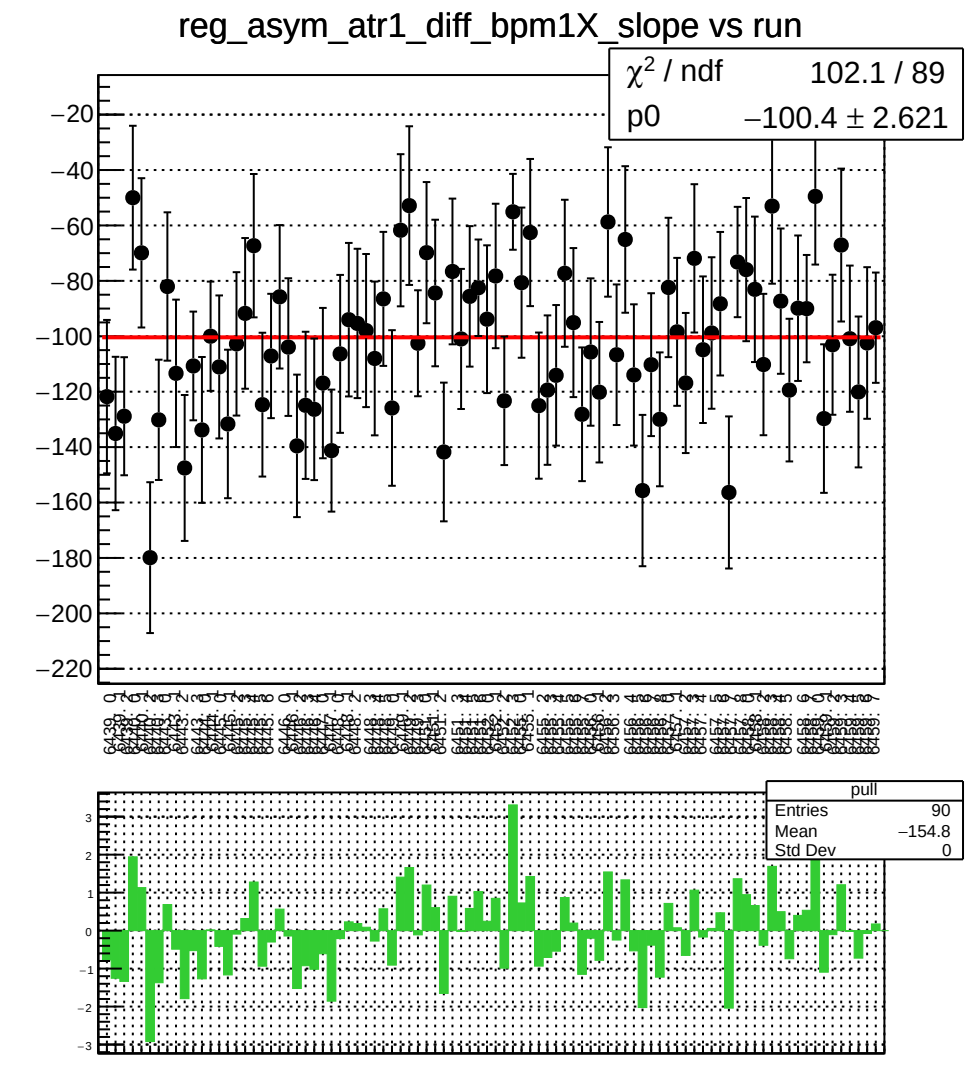

pull1D
Entries 90
Mean 0.03006
Std Dev 0.7511

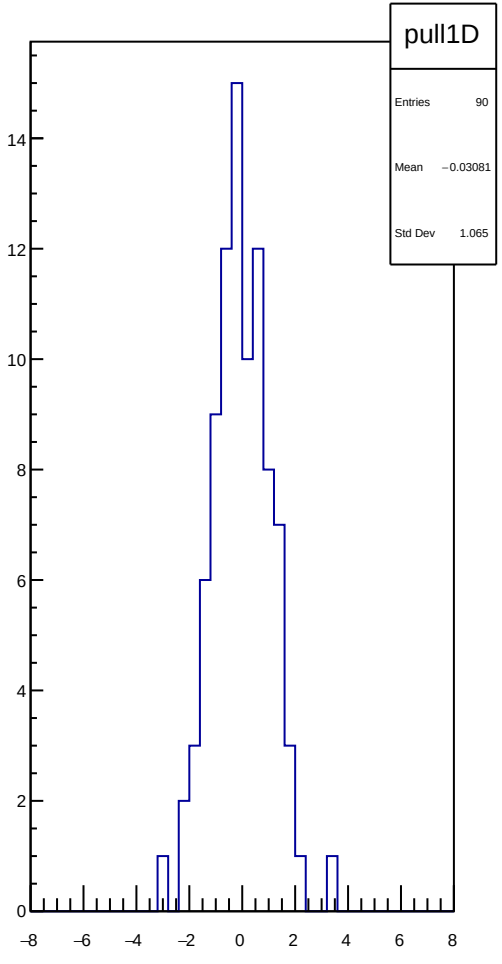

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 35.8 / 89
p0 202.7 ± 9.282
pull
Entries 90
Mean −410.6
Std Dev 0

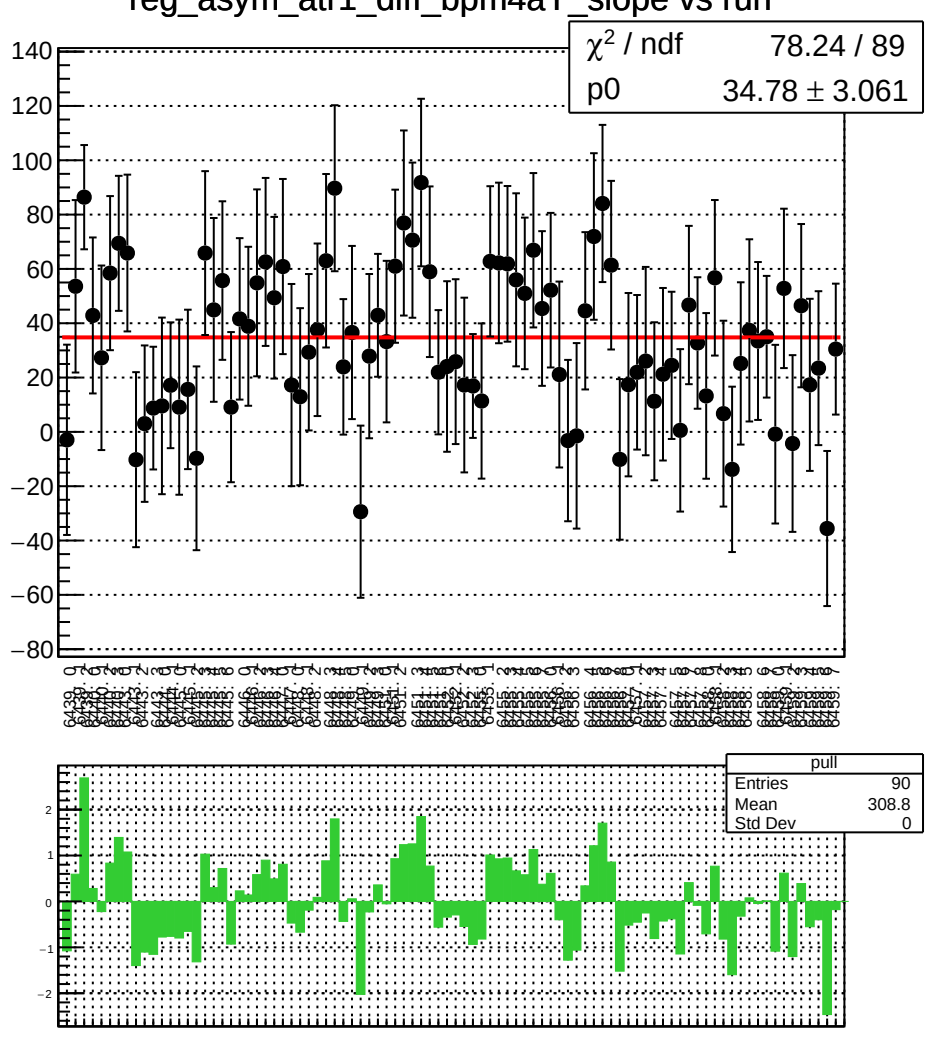

pull1D
Entries 90
Mean −0.01883
Std Dev 0.6304

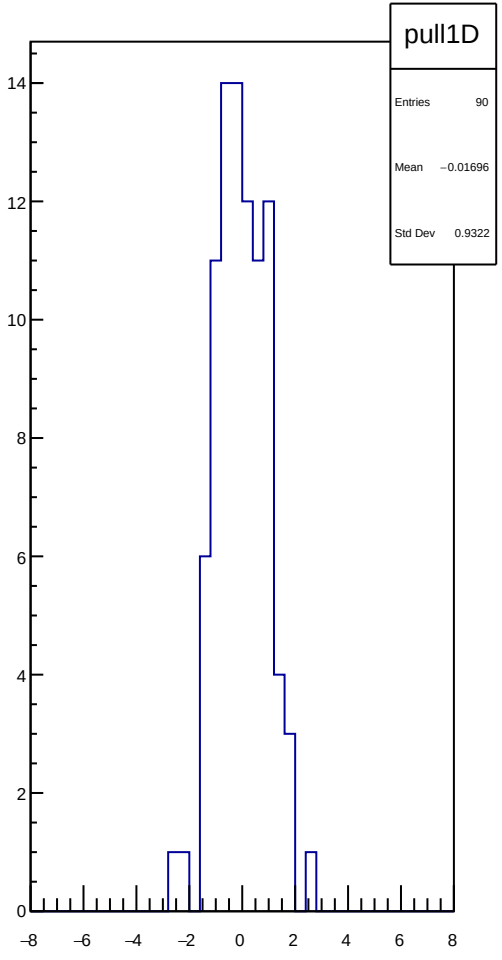

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 53.28 / 89
p0 −300.4 ± 0.3774
pull
Entries 90
Mean −425.2
Std Dev 0

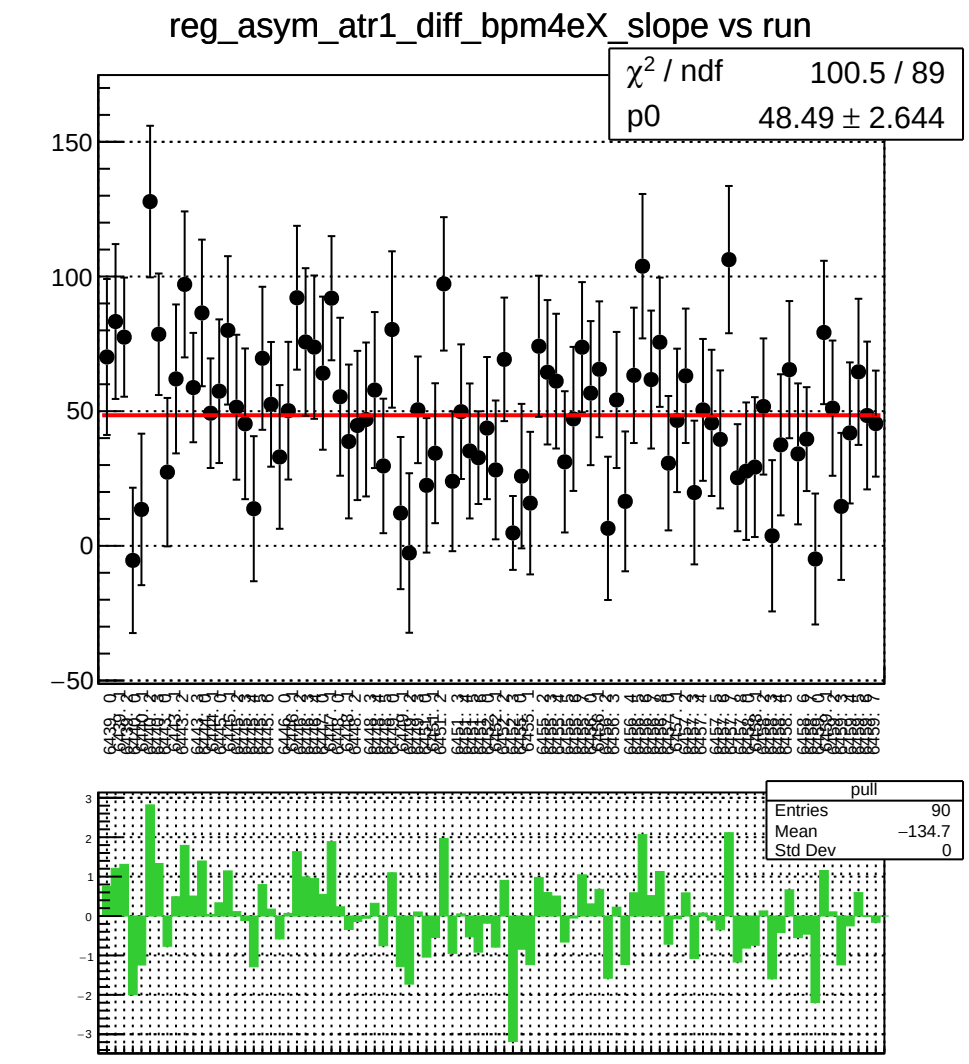

pull1D
Entries 90
Mean 0.007958
Std Dev 0.7694

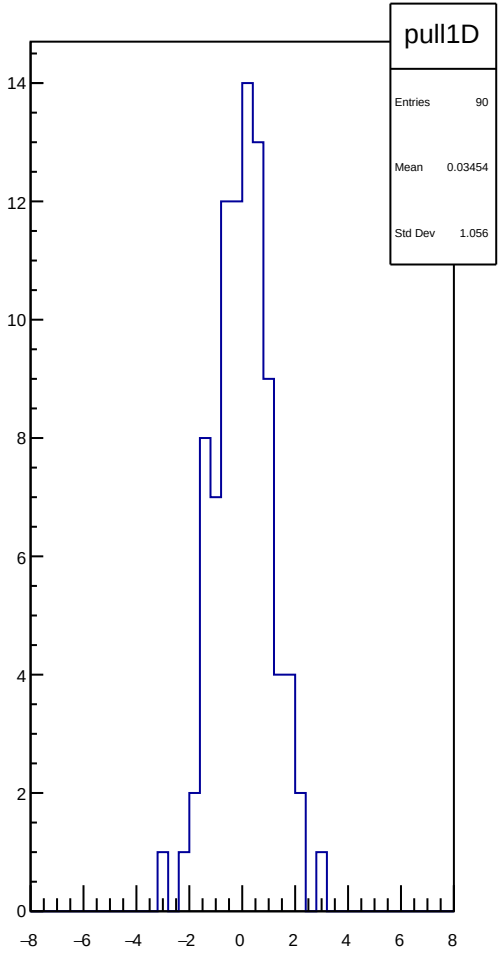

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 102.1 / 89
p0 −100.4 ± 2.621
pull
Entries 90
Mean −154.8
Std Dev 0

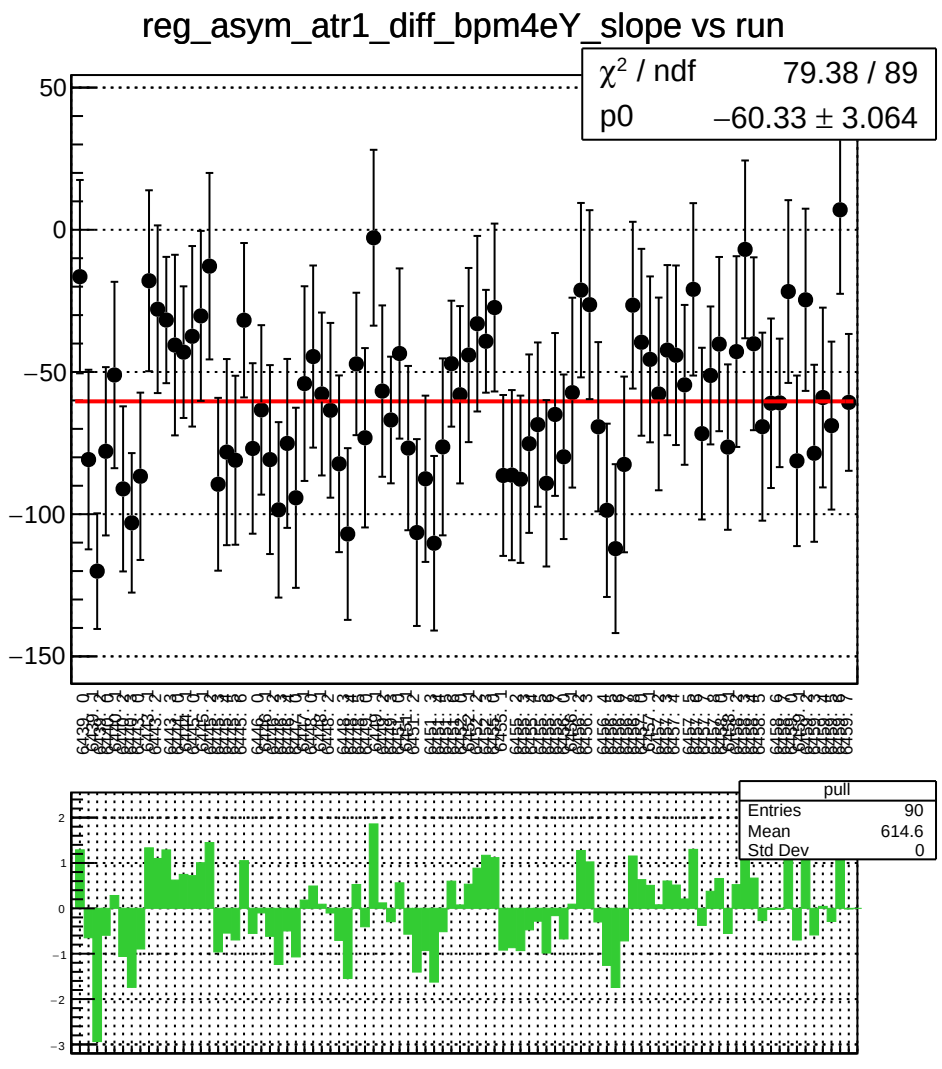

pull1D
Entries 90
Mean −0.03081
Std Dev 1.065

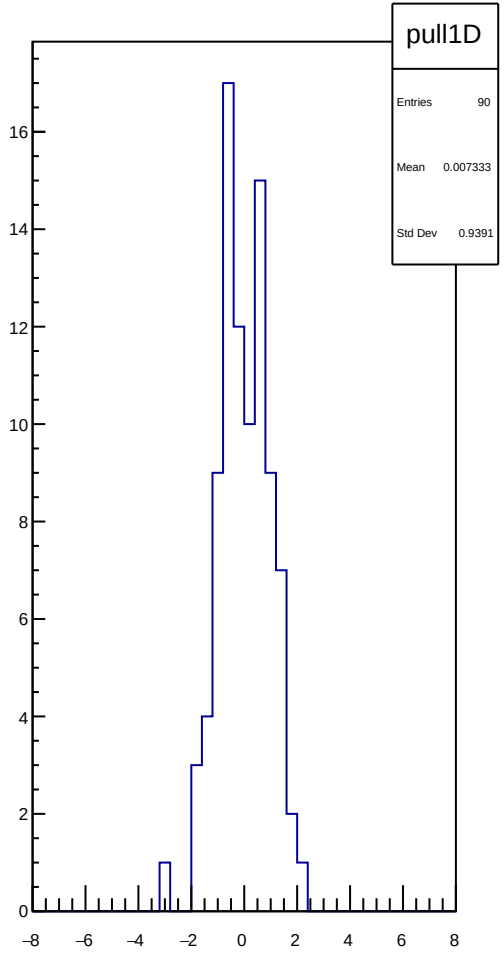

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 78.24 / 89
p0 34.78 ± 3.061
pull
Entries 90
Mean 308.8
Std Dev 0

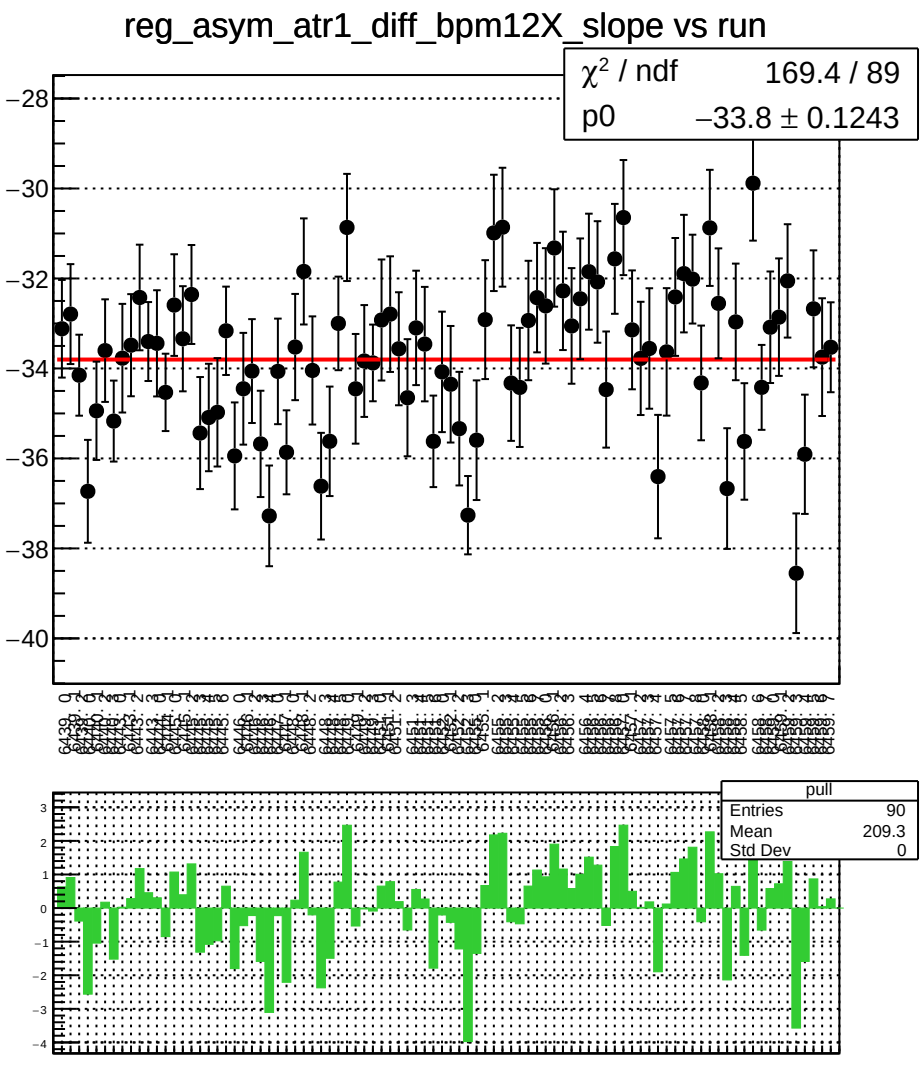

pull1D
Entries 90
Mean −0.01696
Std Dev 0.9322

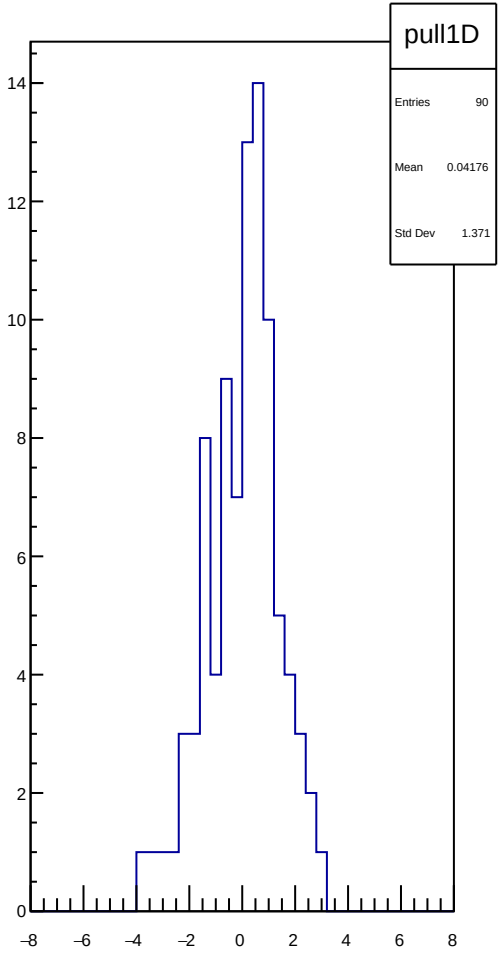

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 100.5 / 89
p0 48.49 ± 2.644
150
100
50
0
−50
pull
Entries 90
Mean −134.7
Std Dev 0
3
2
1
0
−1
−2
−3

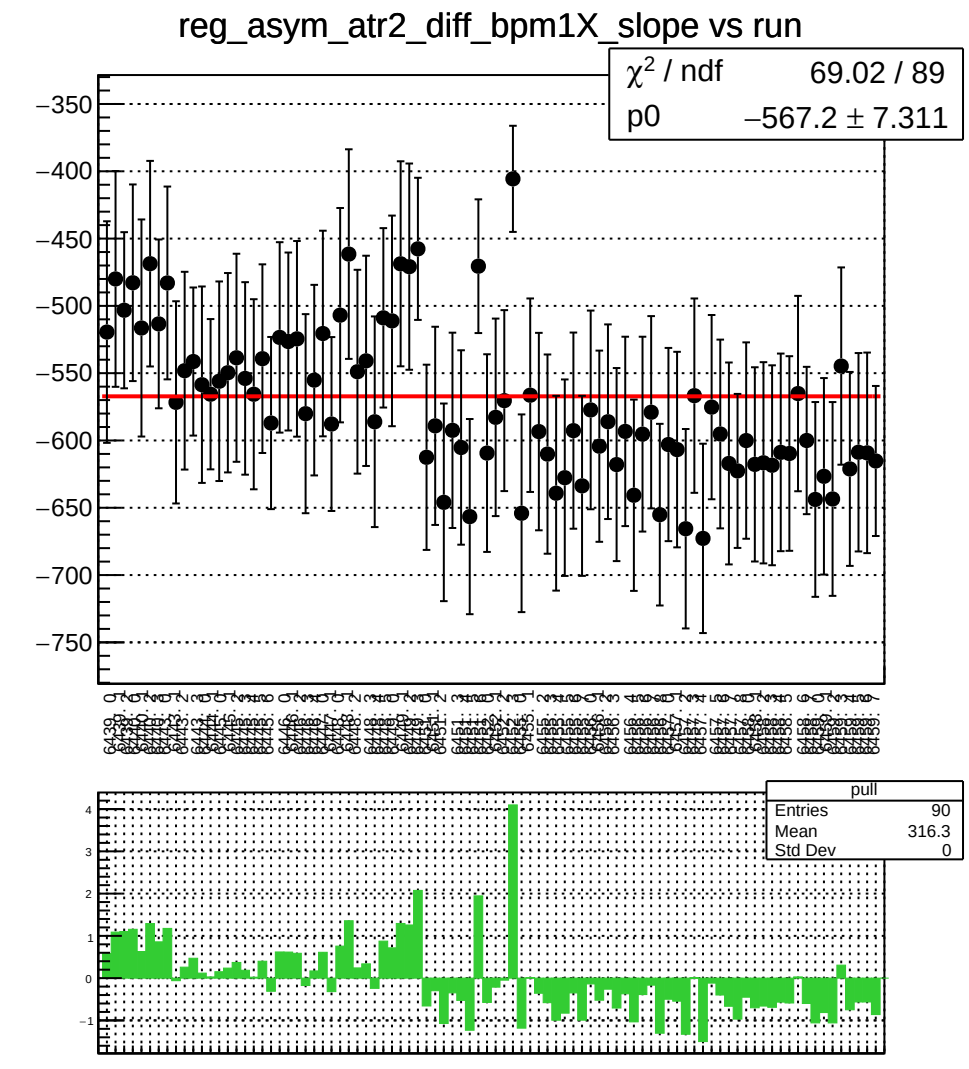

pull1D
Entries 90
Mean 0.03454
Std Dev 1.056
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

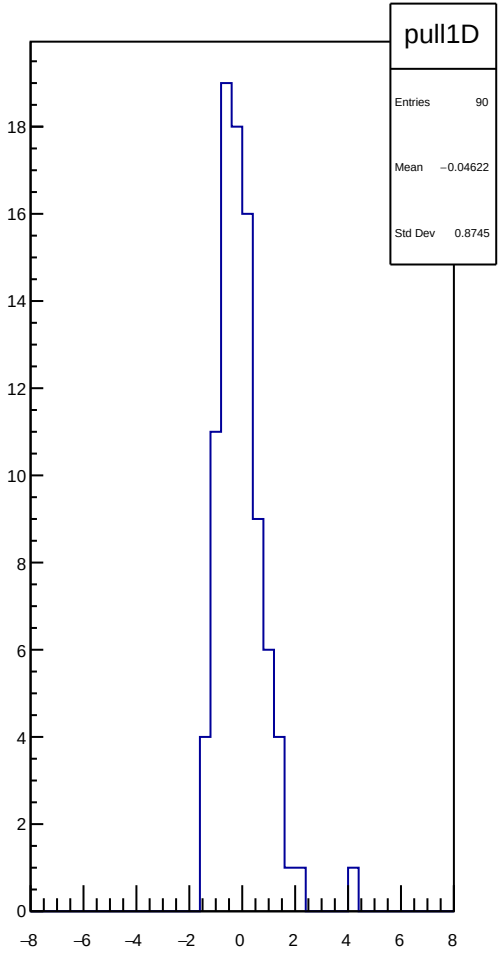

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 79.38 / 89
p0 −60.33 ± 3.064
50
0
−50
−100
−150
pull
Entries 90
Mean 614.6
Std Dev 0
2
1
0
−1
−2
−3

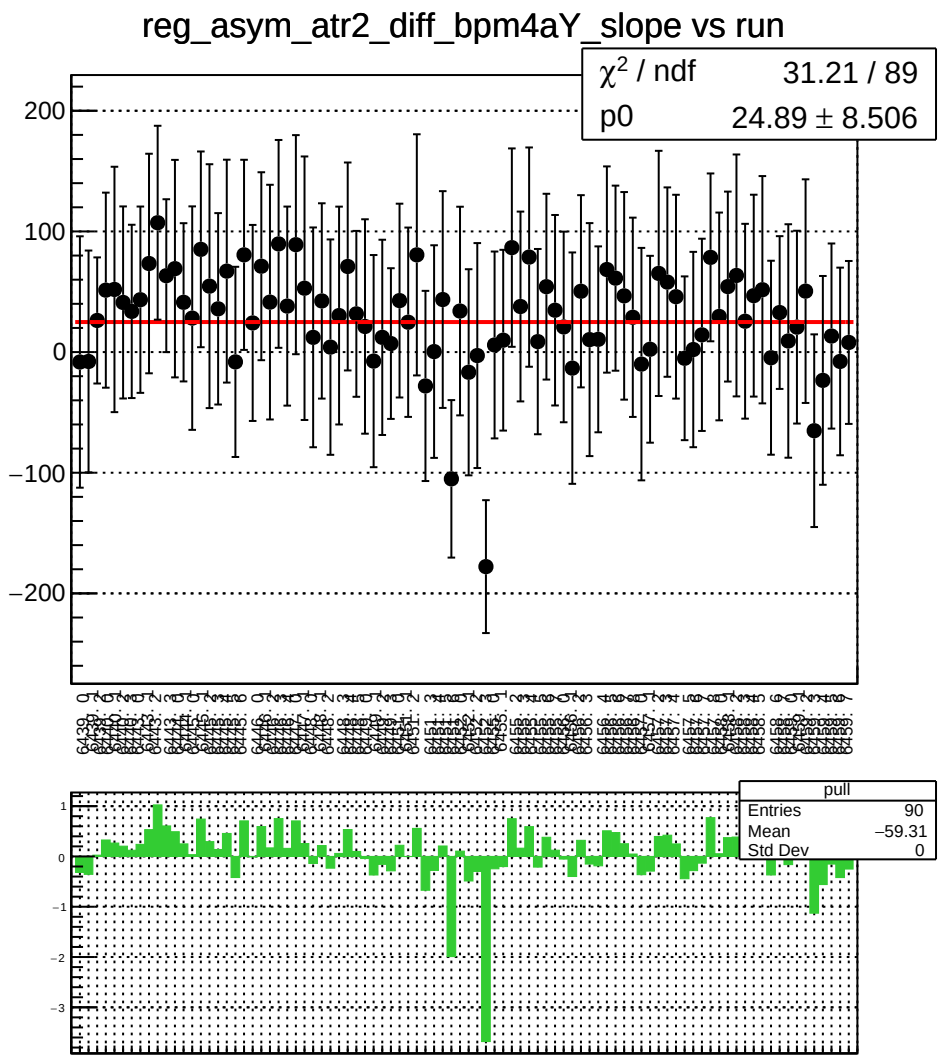

pull1D
Entries 90
Mean 0.007333
Std Dev 0.9391
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

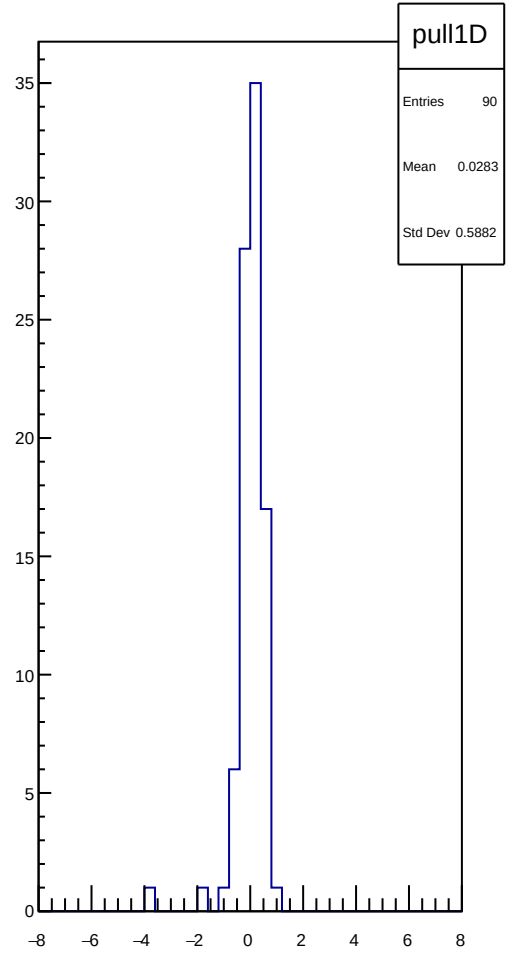

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 169.4 / 89
p0 −33.8 ± 0.1243
pull
Entries 90
Mean 209.3
Std Dev 0

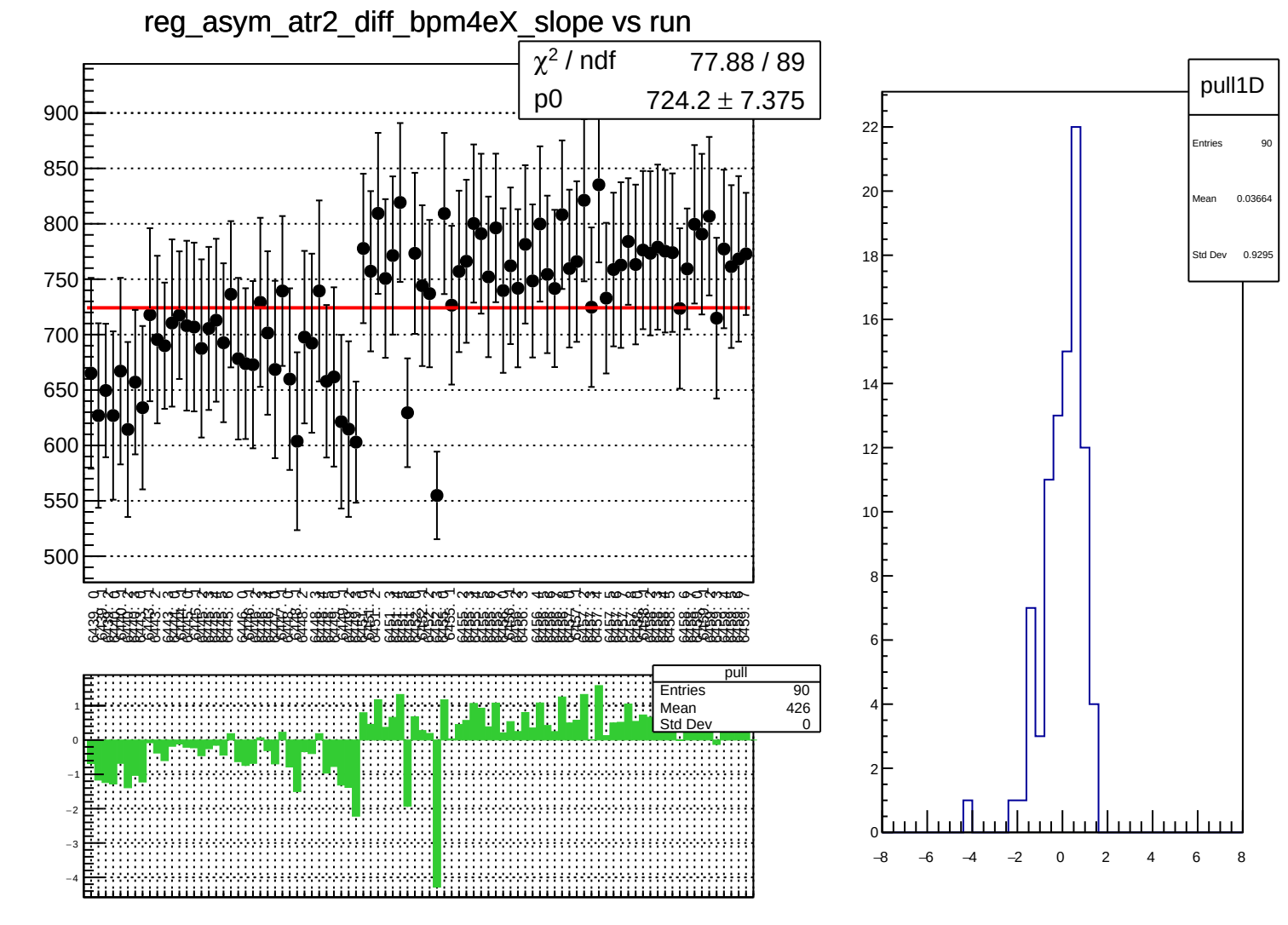

pull1D
Entries 90
Mean 0.04176
Std Dev 1.371

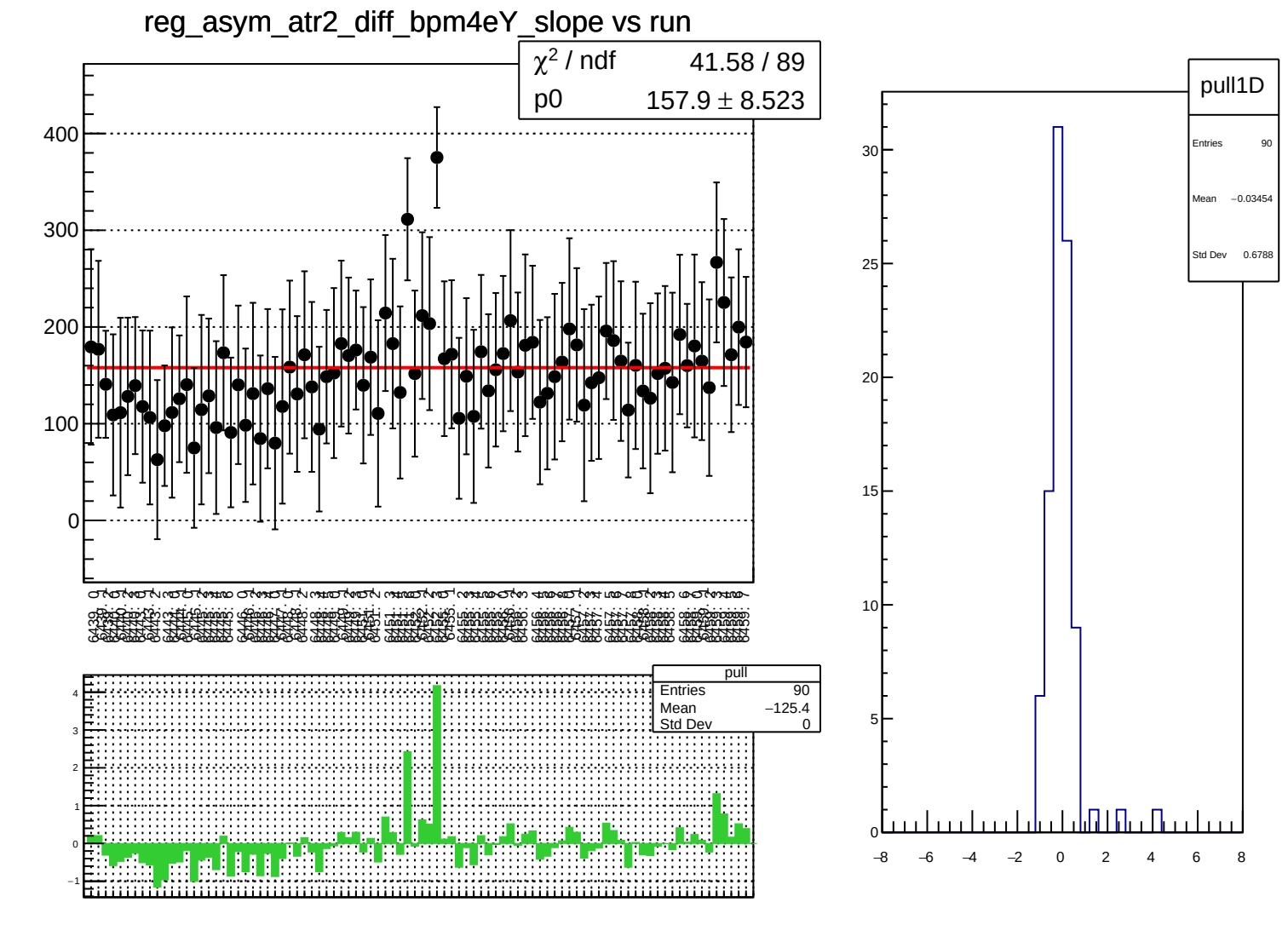

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 69.02 / 89
p0 −567.2 ± 7.311
pull
Entries 90
Mean 316.3
Std Dev 0

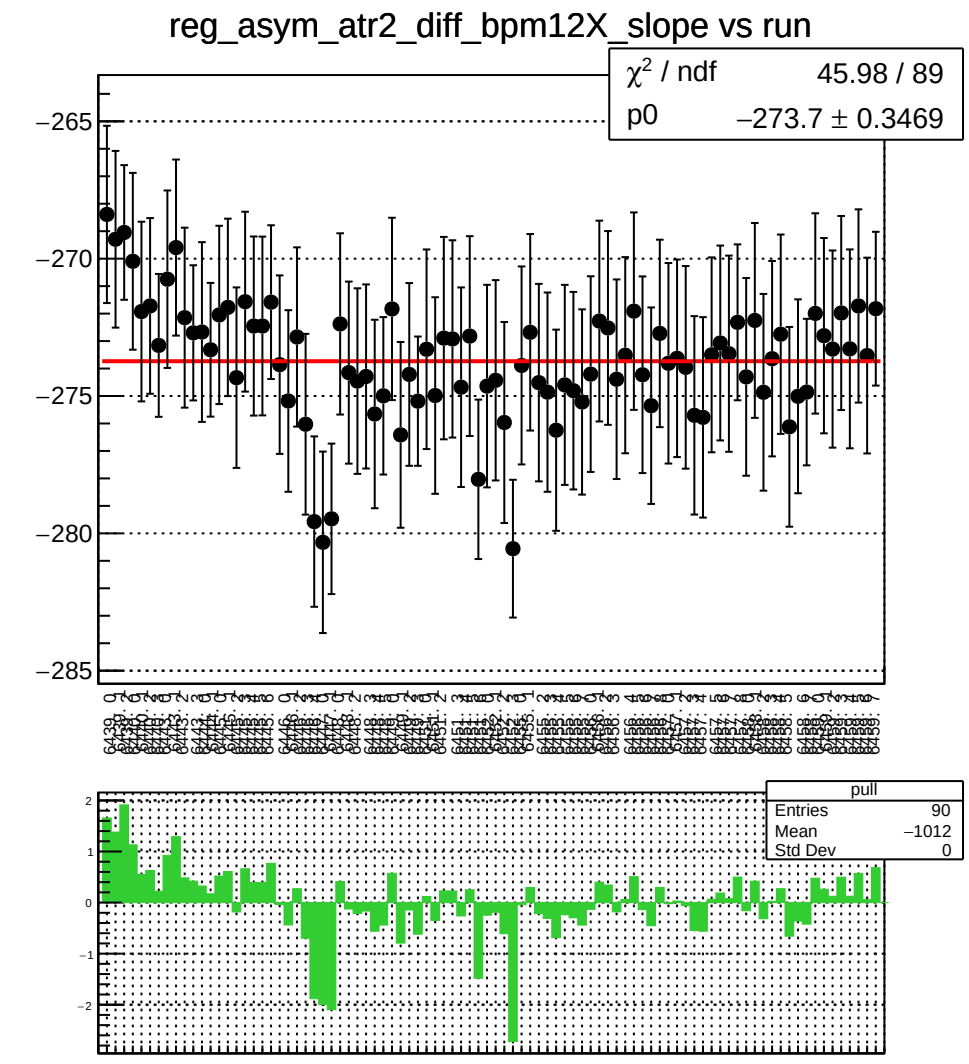

pull1D
Entries 90
Mean −0.04622
Std Dev 0.8745

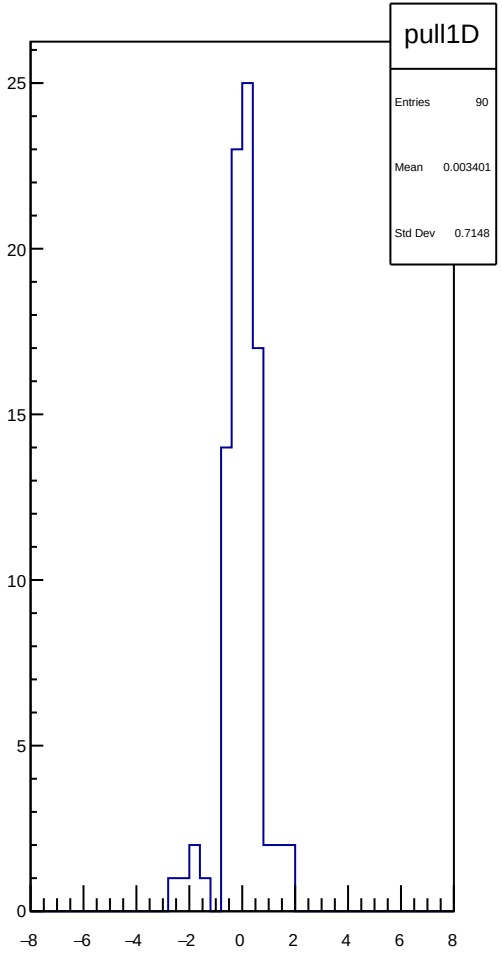

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 31.21 / 89
p0 24.89 ± 8.506
200
100
0
−100
−200
pull
Entries 90
Mean −59.31
Std Dev 0
1
0
−1
−2
−3

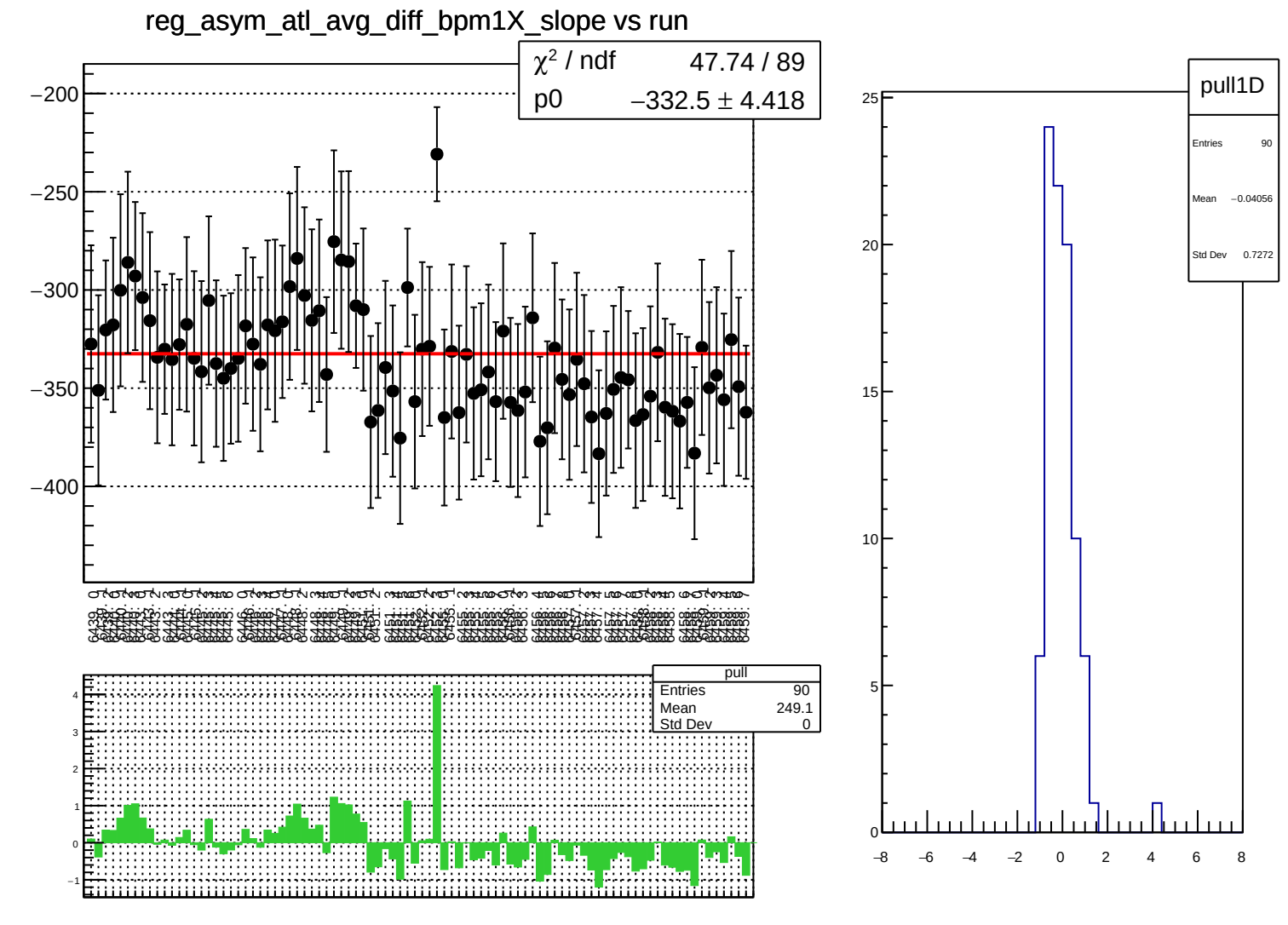

pull1D
Entries 90
Mean 0.0283
Std Dev 0.5882
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

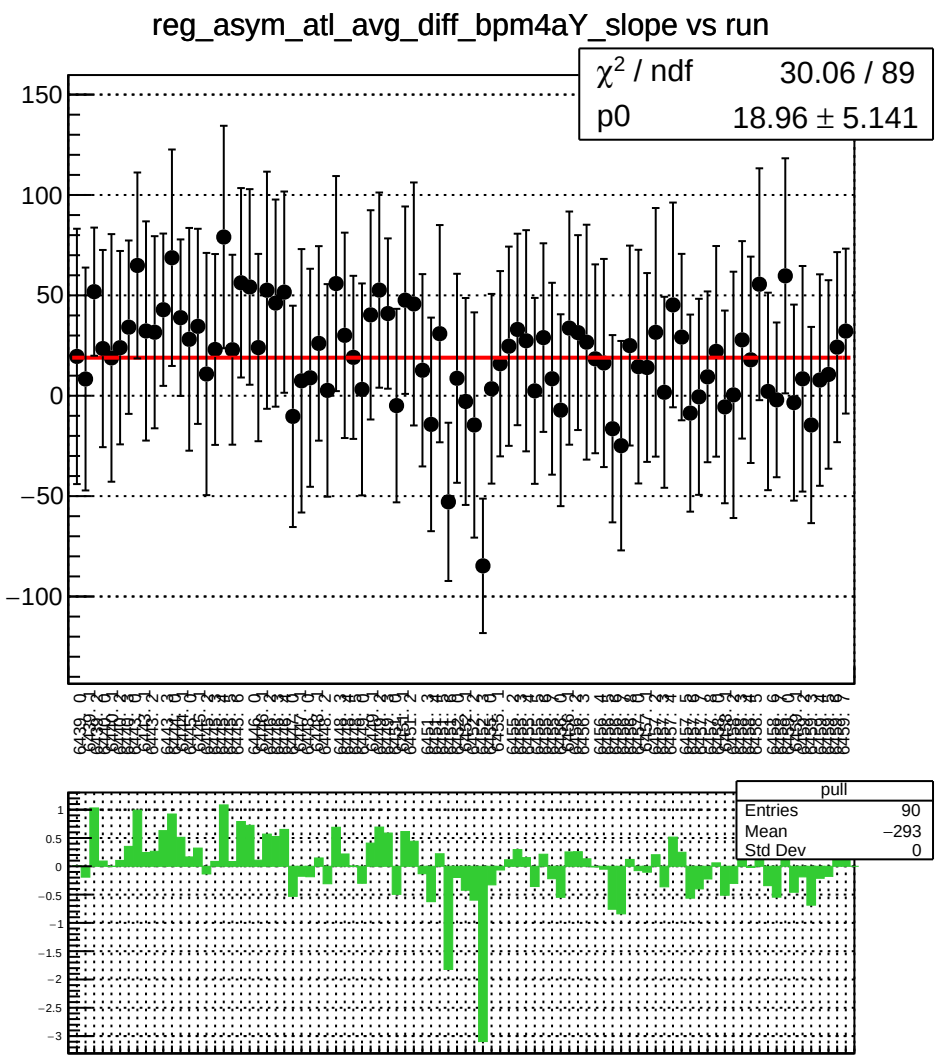

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 77.88 / 89
p0 724.2 ± 7.375
900
850
800
750
700
650
600
550
500
pull
Entries 90
Mean 426
Std Dev 0
1
0
−1
−2
−3
−4
pull1D
Entries 90
Mean 0.03664
Std Dev 0.9295
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

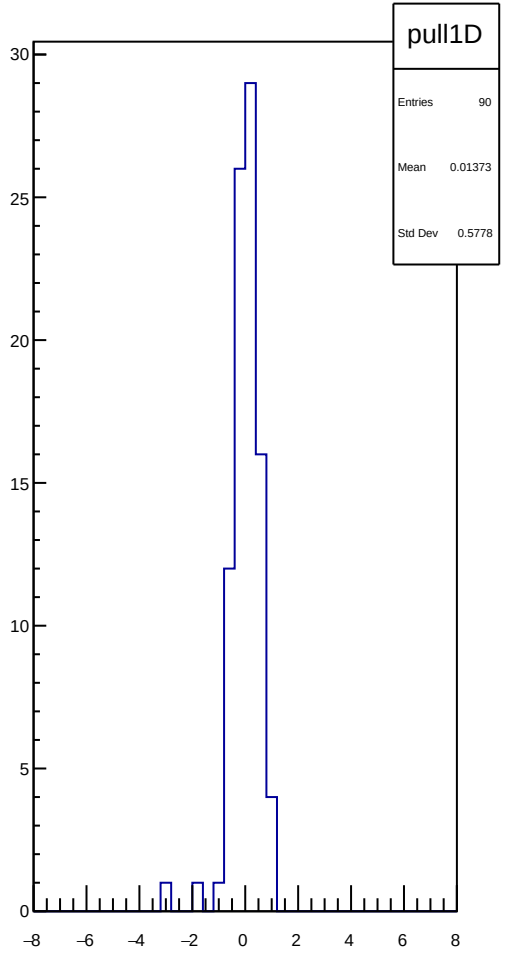

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 41.58 / 89
p0 157.9 ± 8.523
400
300
200
100
0
pull
Entries 90
Mean −125.4
Std Dev 0
4
3
2
1
0
−1
pull1D
Entries 90
Mean −0.03454
Std Dev 0.6788
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

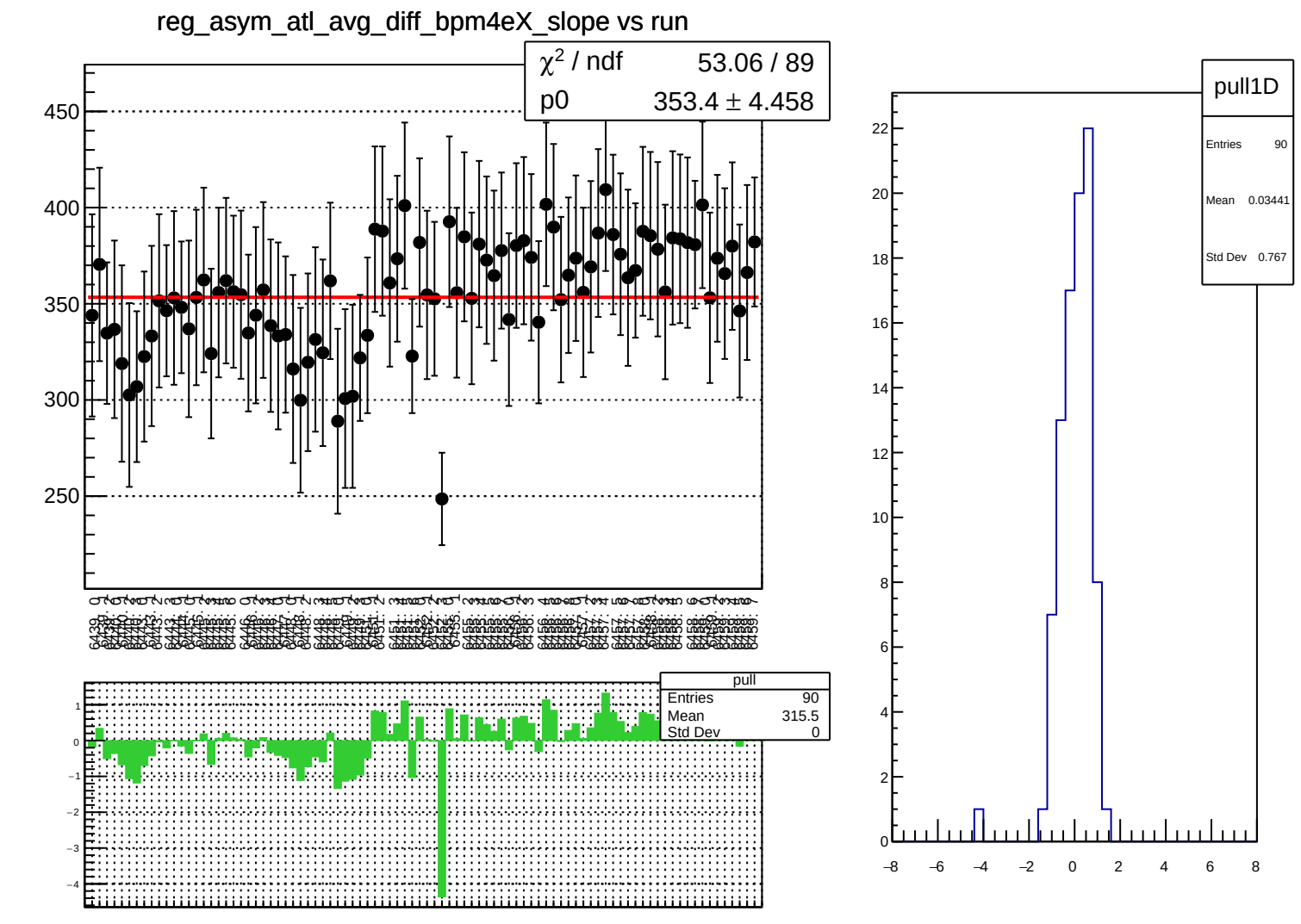

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 45.98 / 89
p0 −273.7 ± 0.3469
−265
−270
−275
−280
−285
pull
Entries 90
Mean −1012
Std Dev 0
2
1
0
−1
−2

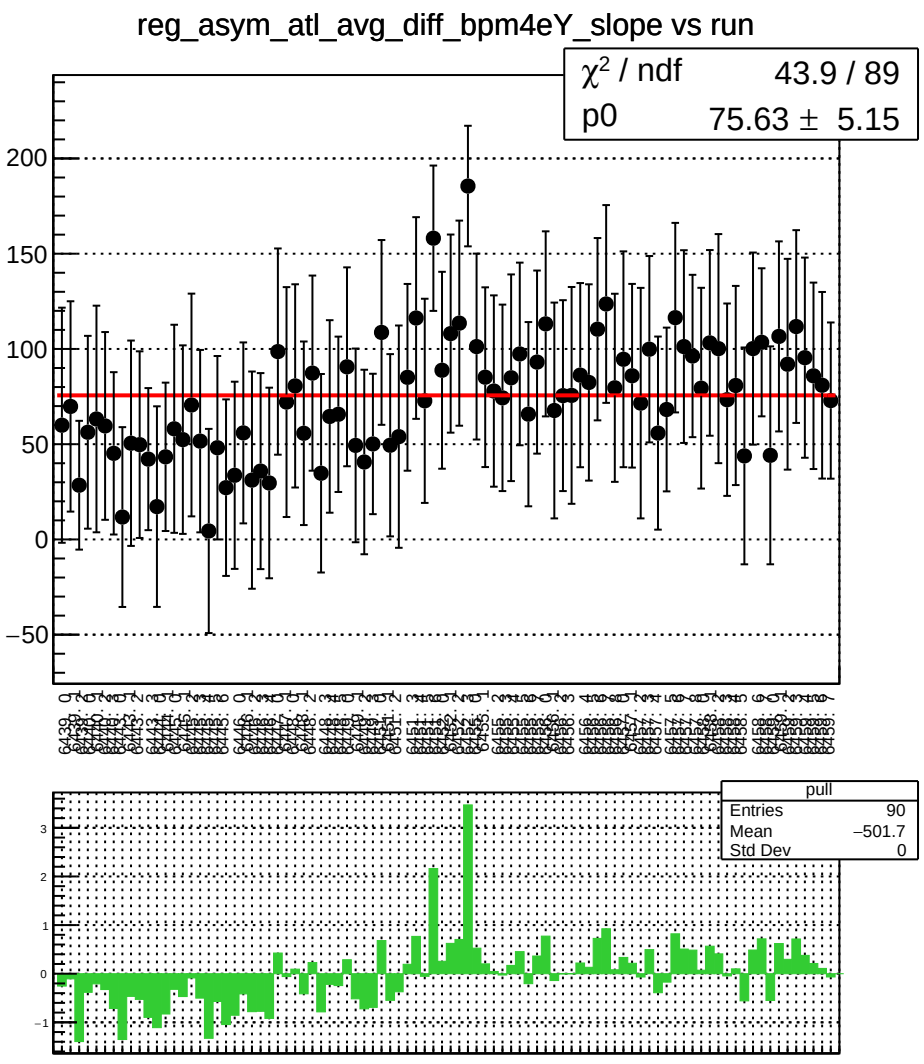

pull1D
Entries 90
Mean 0.003401
Std Dev 0.7148
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

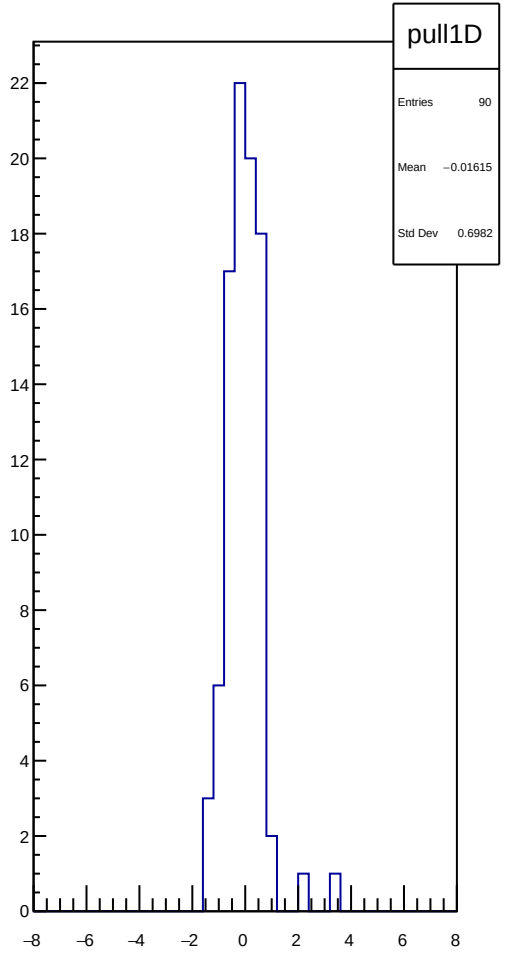

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 47.74 / 89
p0 −332.5 ± 4.418
−200
−250
−300
−350
−400
pull
Entries 90
Mean 249.1
Std Dev 0
4
3
2
1
0
−1
pull1D
Entries 90
Mean −0.04056
Std Dev 0.7272
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

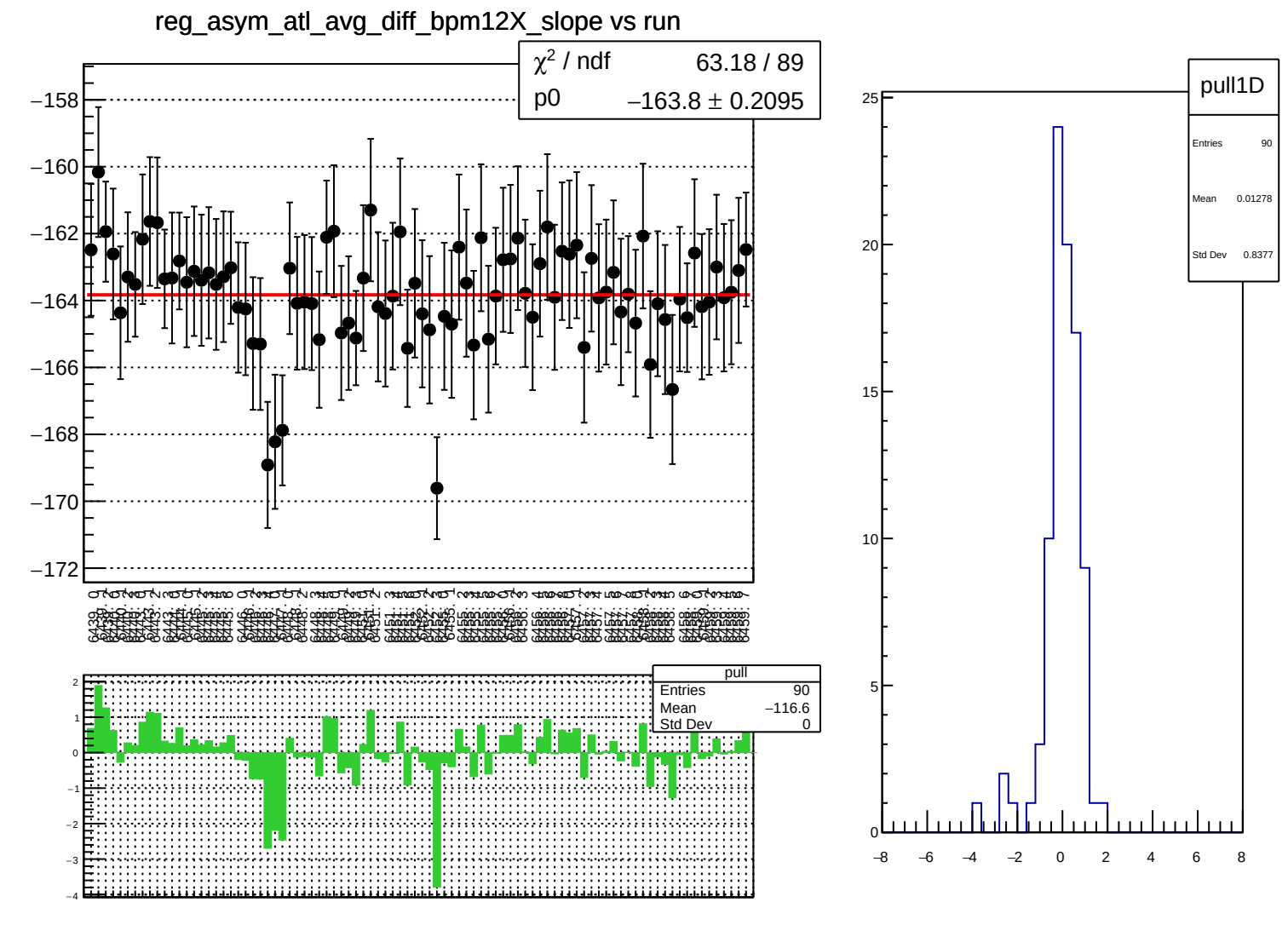

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 30.06 / 89
p0 18.96 ± 5.141
150
100
50
0
−50
−100
pull
Entries 90
Mean −293
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

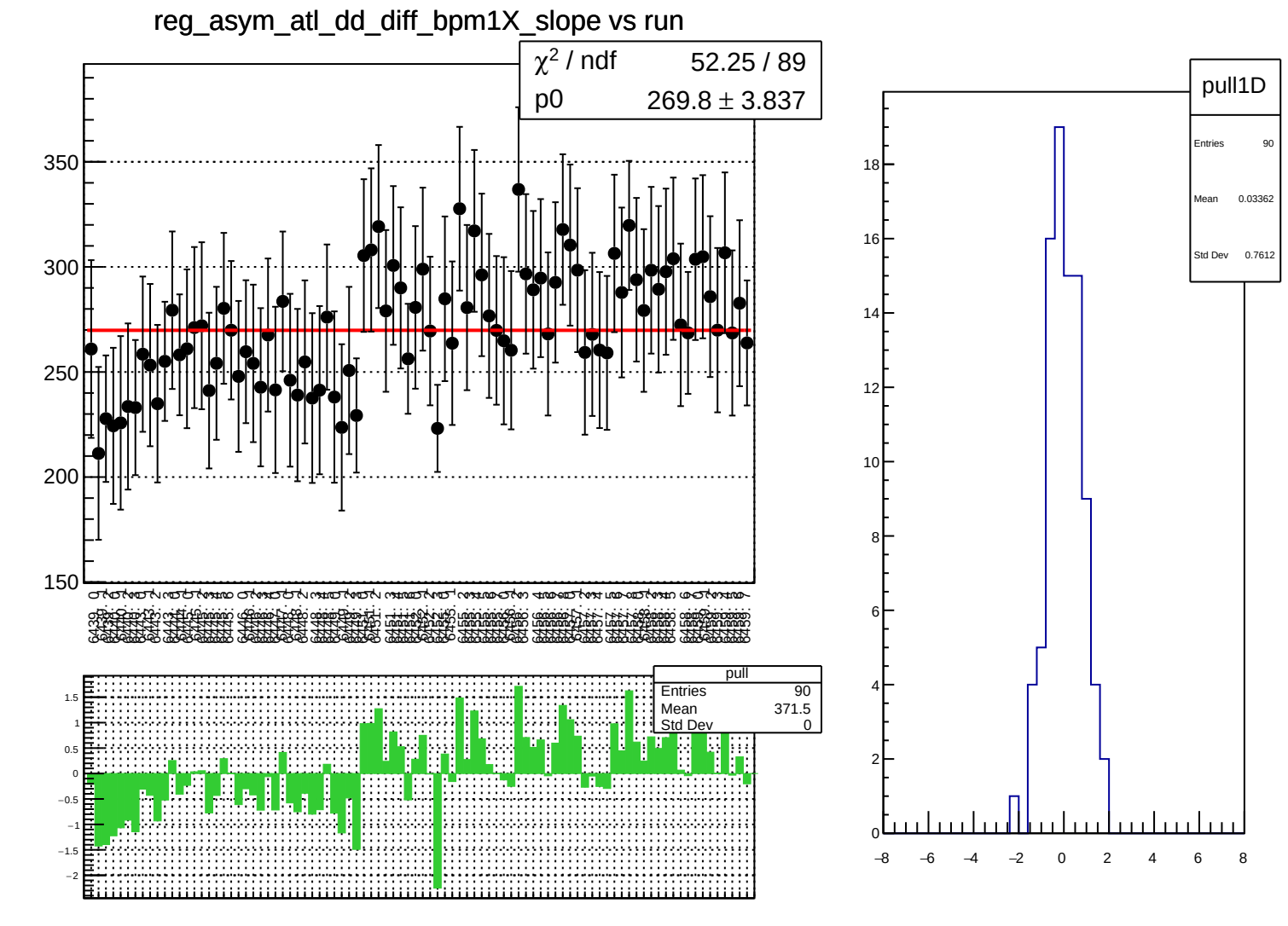

pull1D
Entries 90
Mean 0.01373
Std Dev 0.5778
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

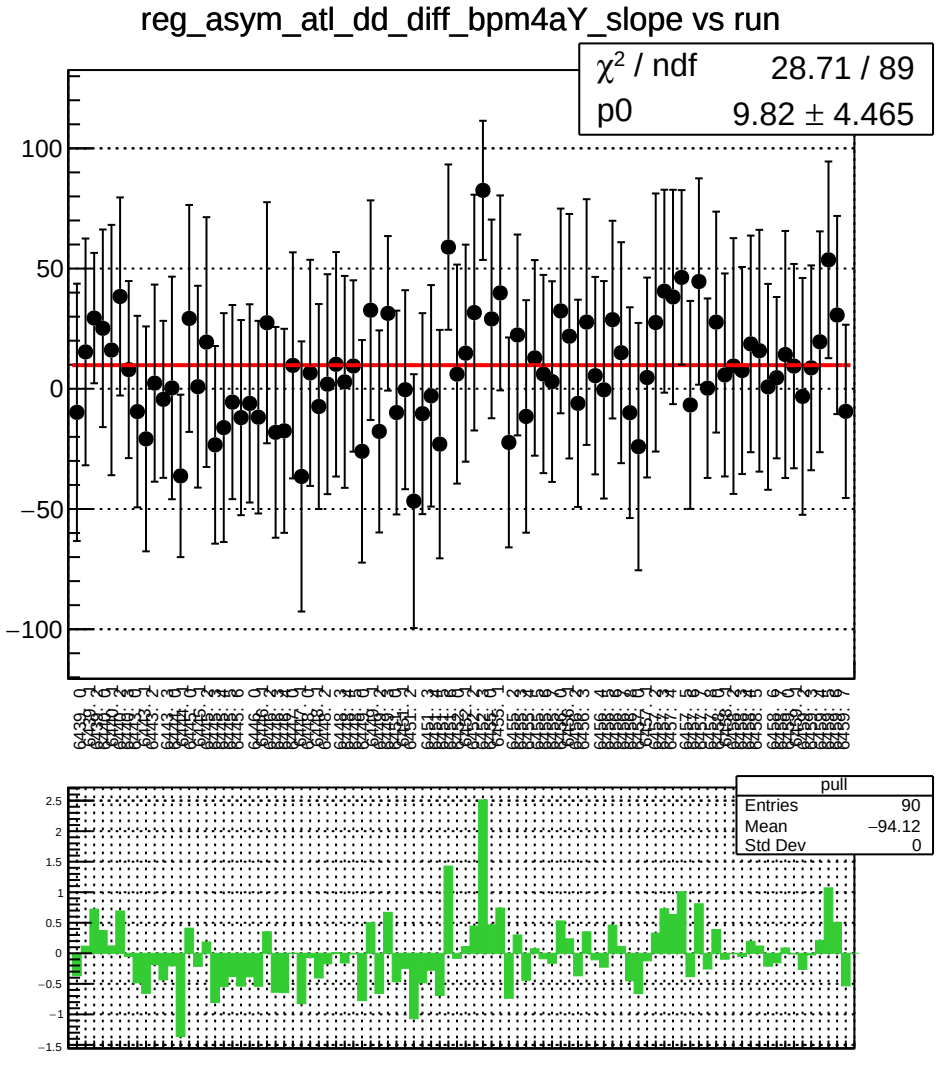

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 53.06 / 89
p0 353.4 ± 4.458
450
400
350
300
250
pull
Entries 90
Mean 315.5
Std Dev 0
1
0
−1
−2
−3
−4
pull1D
Entries 90
Mean 0.03441
Std Dev 0.767
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

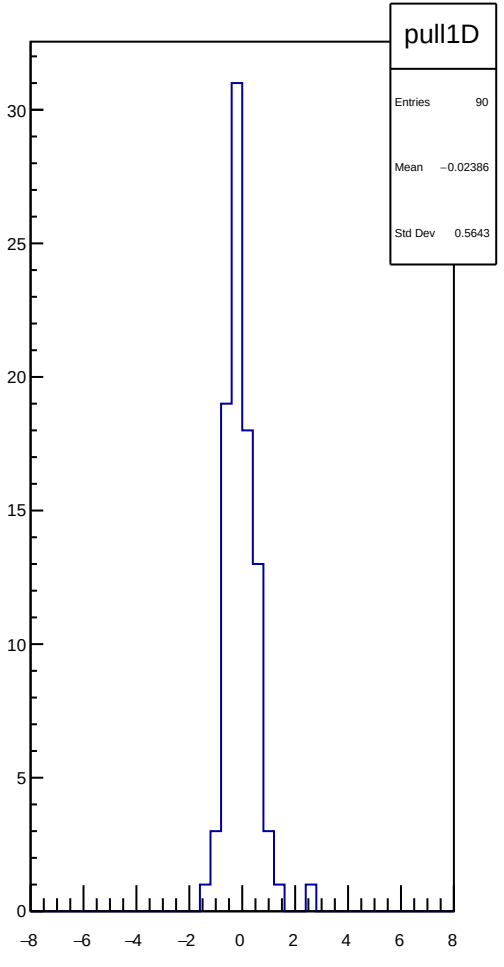

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 43.9 / 89
p0 75.63 ± 5.15
200
150
100
50
0
−50
pull
Entries 90
Mean −501.7
Std Dev 0
3
2
1
0
−1

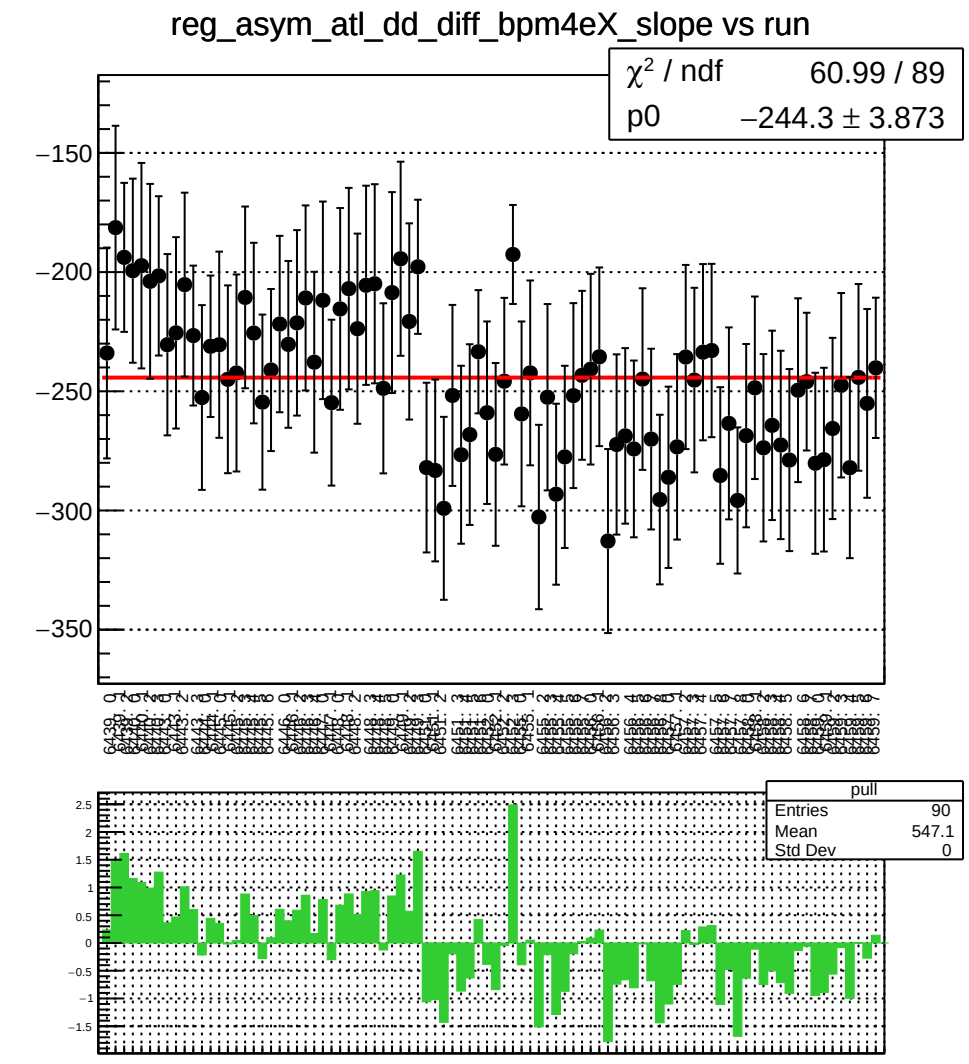

pull1D
Entries 90
Mean −0.01615
Std Dev 0.6982
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

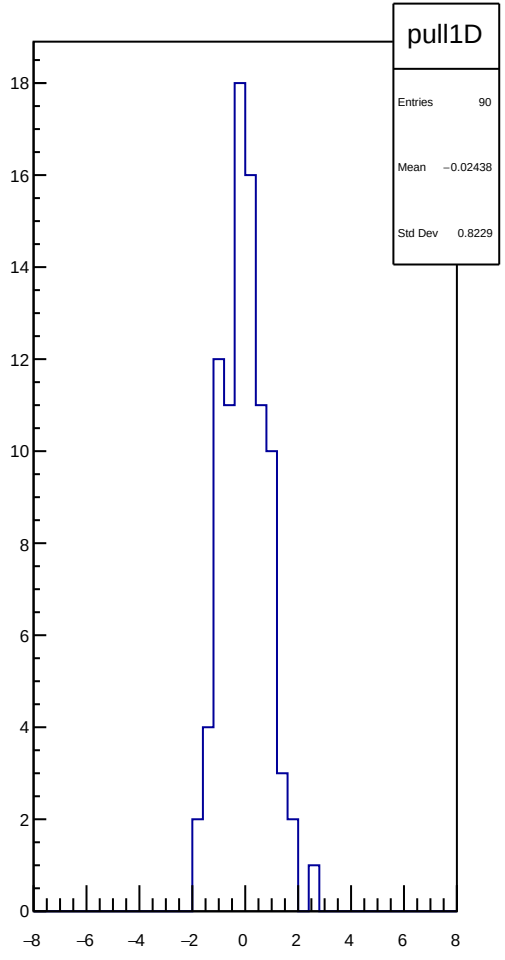

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 63.18 / 89
p0 −163.8 ± 0.2095
pull
Entries 90
Mean −116.6
Std Dev 0
pull1D
Entries 90
Mean 0.01278
Std Dev 0.8377

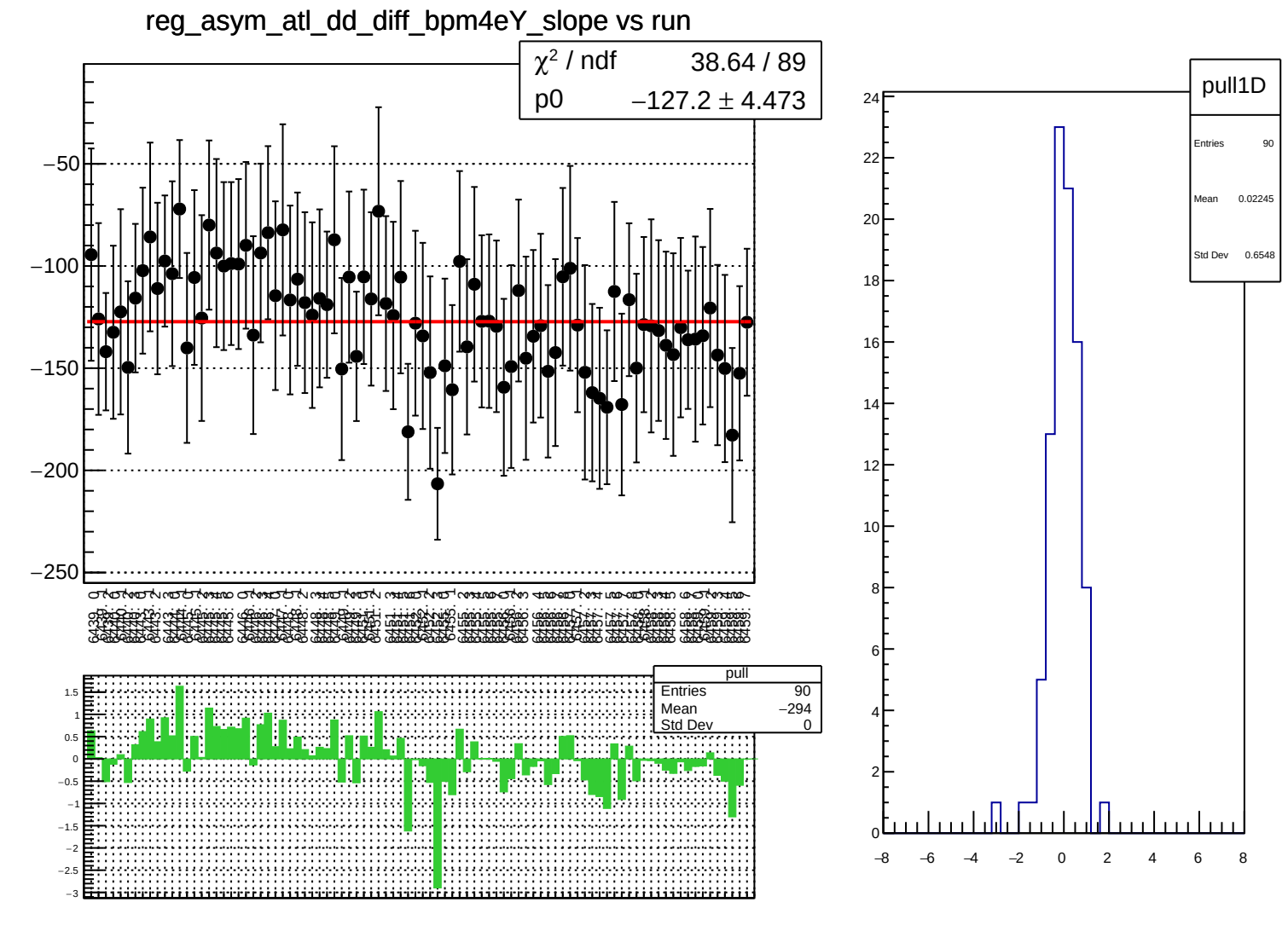

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 52.25 / 89
p0 269.8 ± 3.837
350
300
250
200
150
pull
Entries 90
Mean 371.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 90
Mean 0.03362
Std Dev 0.7612
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

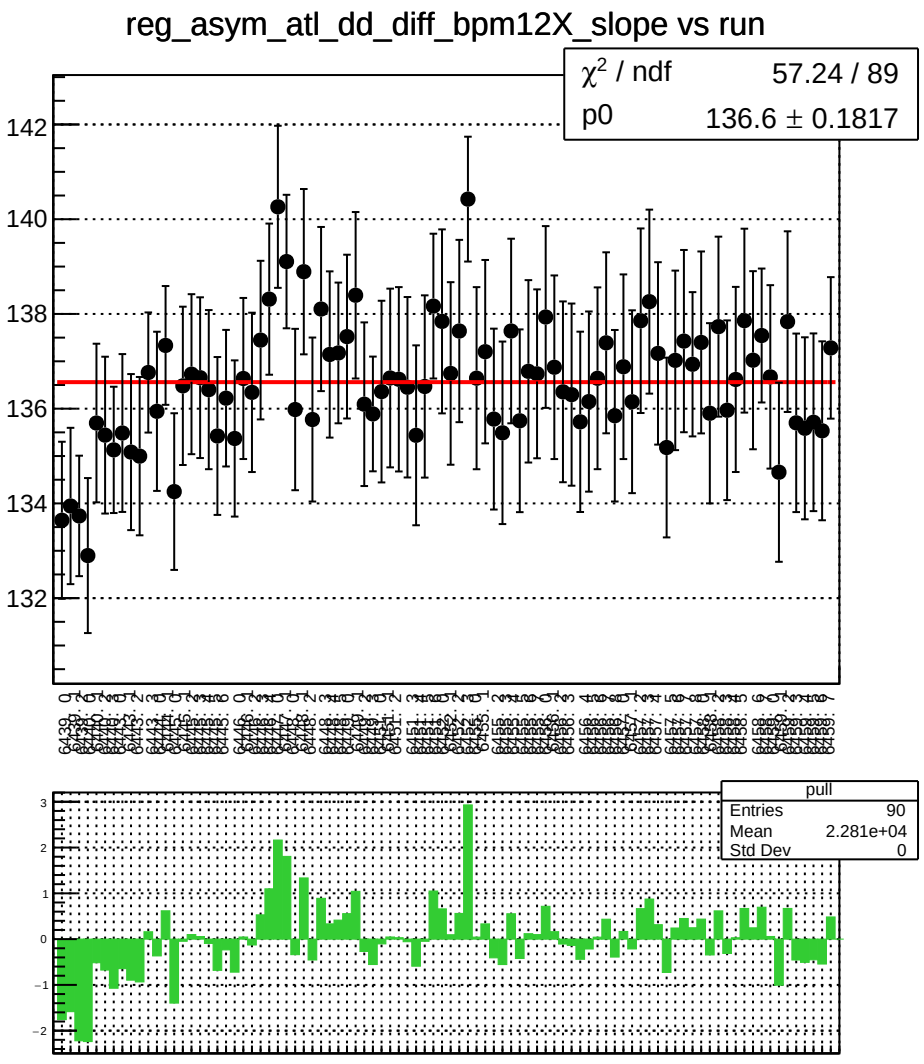

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 28.71 / 89
p0 9.82 ± 4.465
pull
Entries 90
Mean −94.12
Std Dev 0

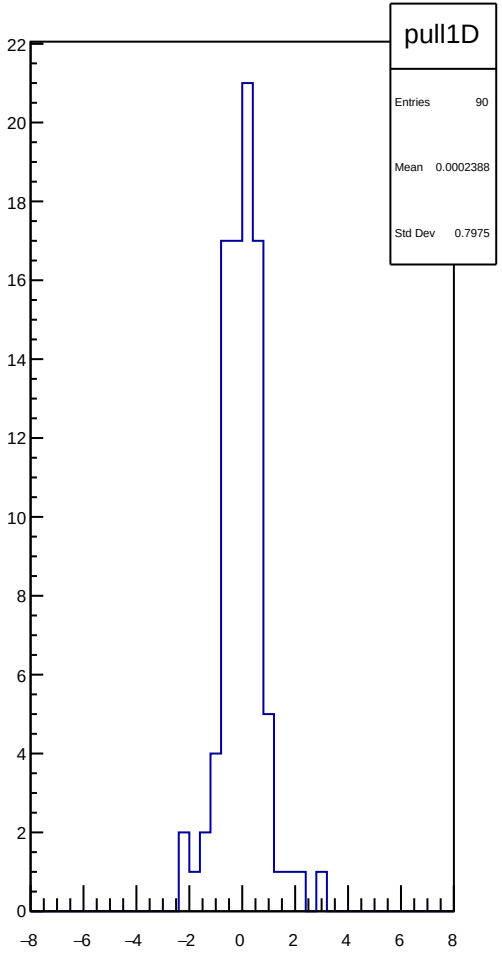

pull1D
Entries 90
Mean −0.02386
Std Dev 0.5643

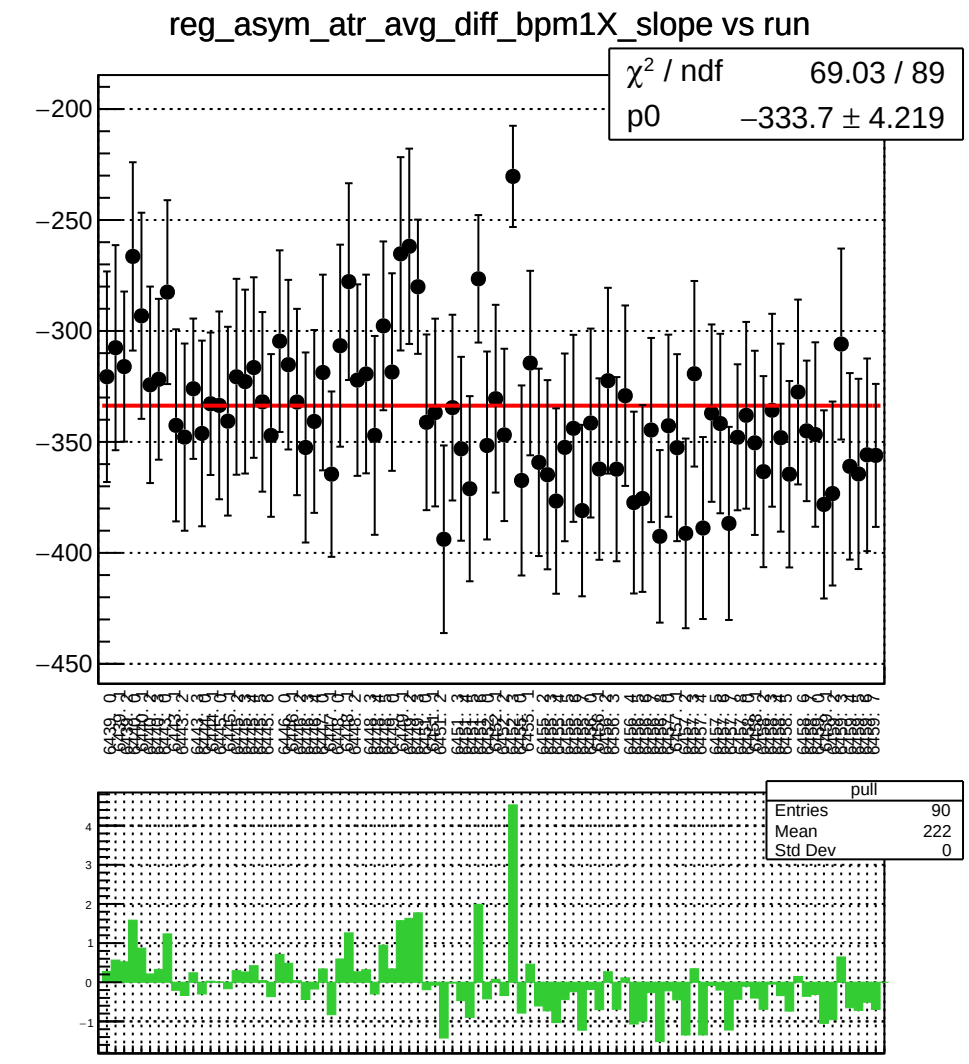

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 60.99 / 89
p0 −244.3 ± 3.873
−150
−200
−250
−300
−350
pull
Entries 90
Mean 547.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

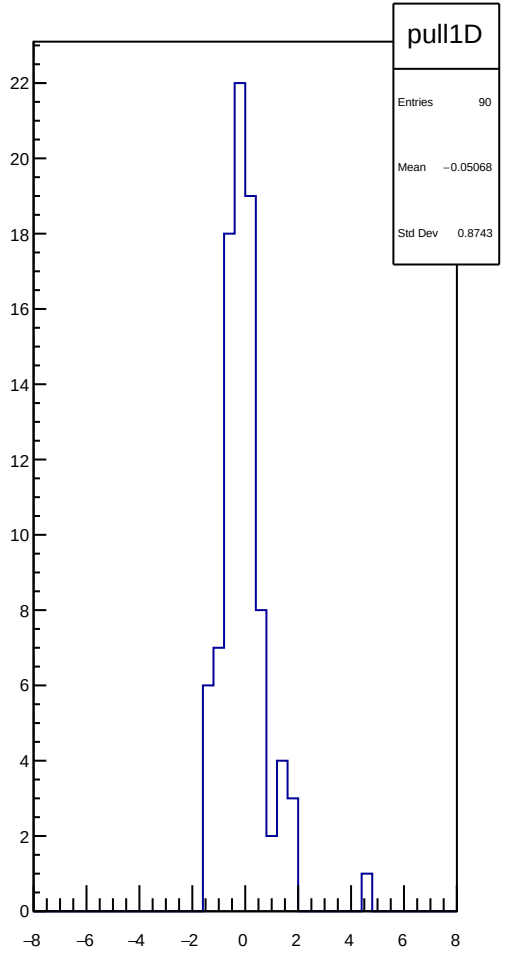

pull1D
Entries 90
Mean −0.02438
Std Dev 0.8229
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

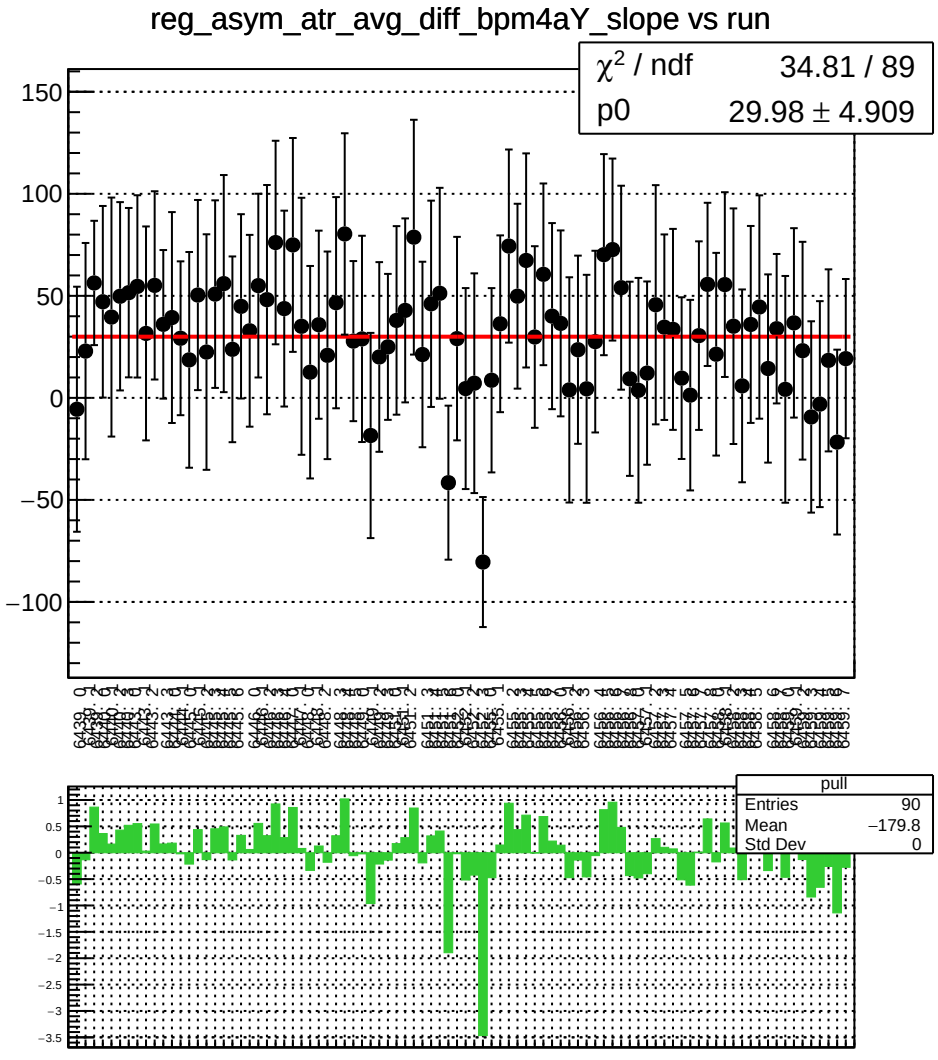

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 38.64 / 89
p0 −127.2 ± 4.473
−50
−100
−150
−200
−250
pull
Entries 90
Mean −294
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 90
Mean 0.02245
Std Dev 0.6548
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

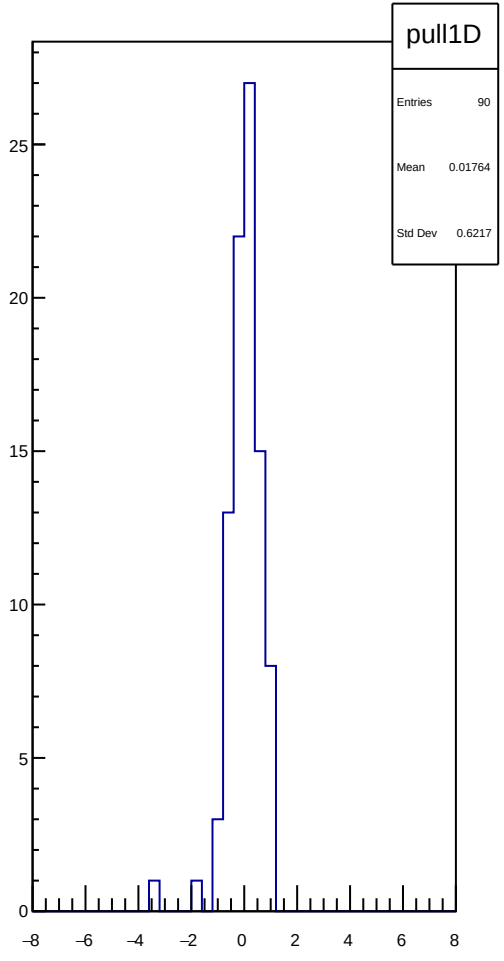

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 57.24 / 89
p0 136.6 ± 0.1817
142
140
138
136
134
132
pull
Entries 90
Mean 2.281e+04
Std Dev 0
3
2
1
0
−1
−2

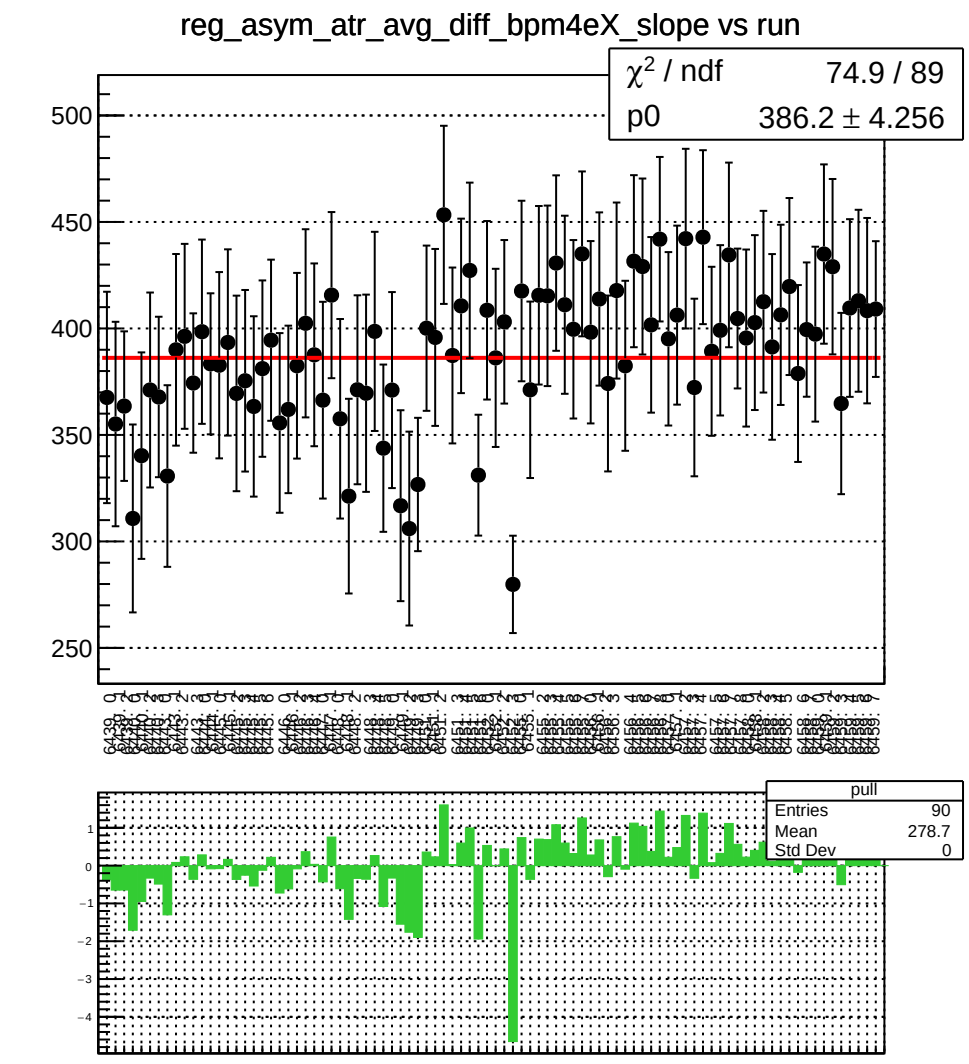

pull1D
Entries 90
Mean 0.0002388
Std Dev 0.7975
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

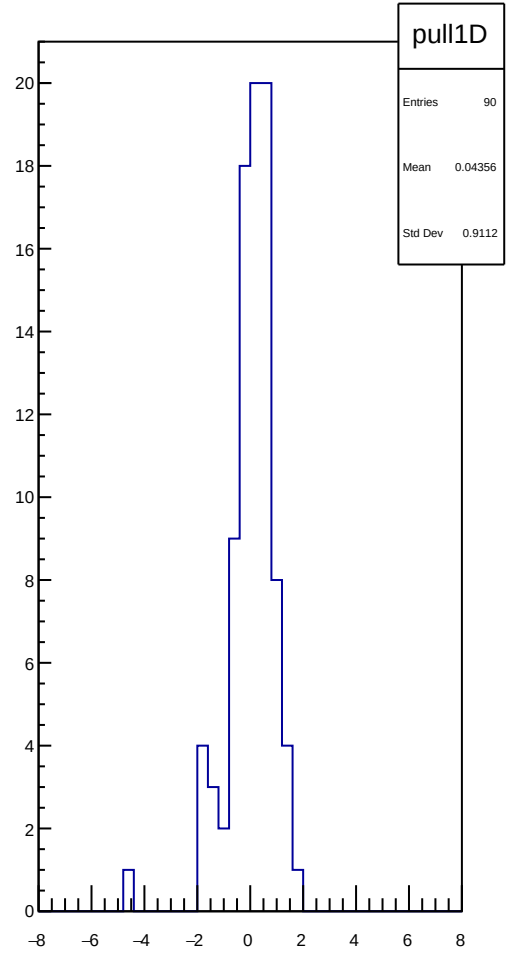

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 69.03 / 89
p0 −333.7 ± 4.219
−200
−250
−300
−350
−400
−450
pull
Entries 90
Mean 222
Std Dev 0
4
3
2
1
0
−1

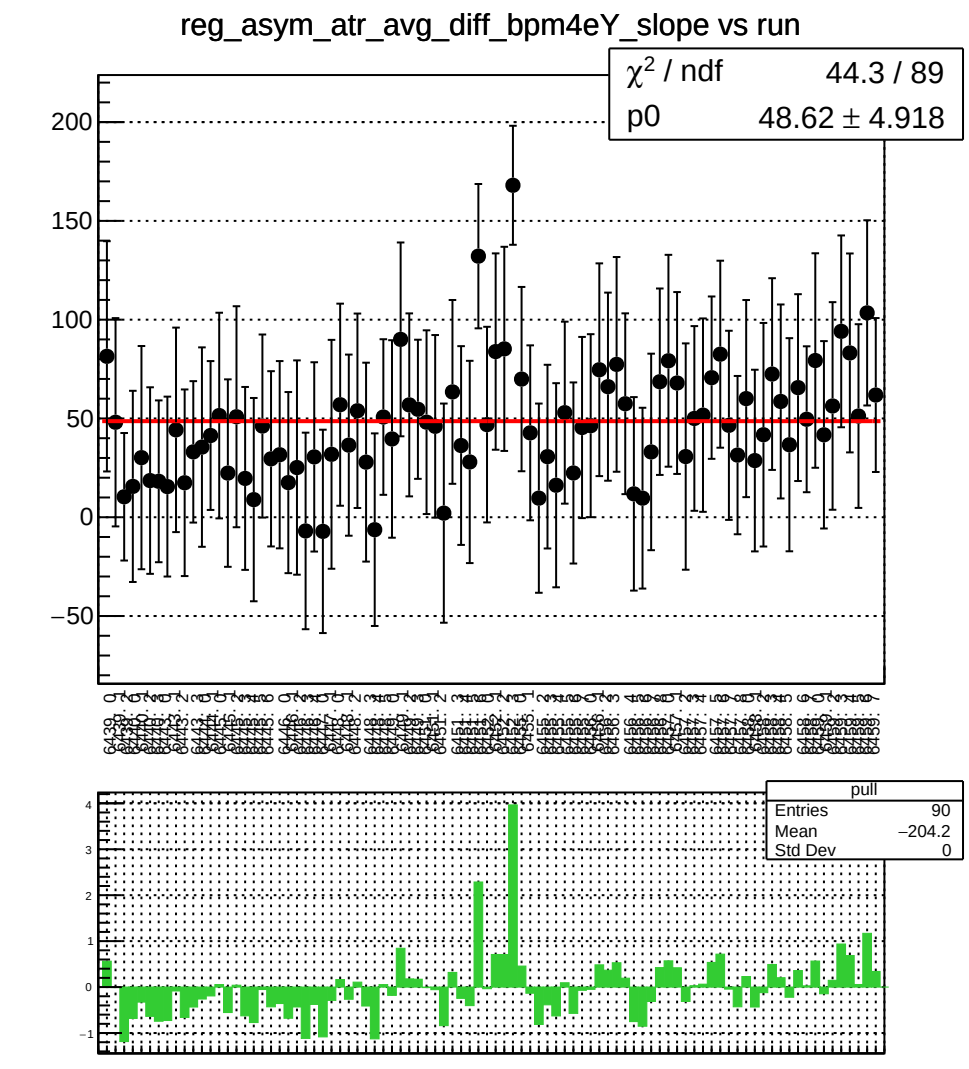

pull1D
Entries 90
Mean −0.05068
Std Dev 0.8743
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

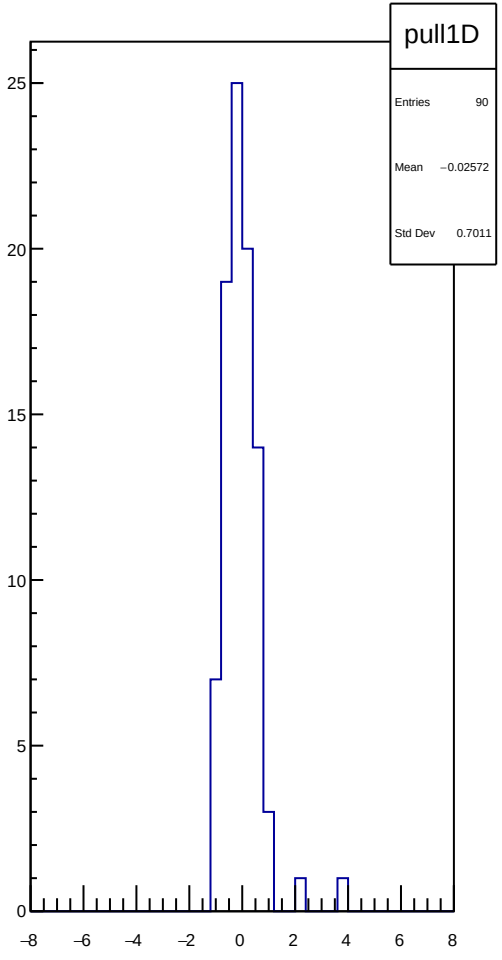

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 34.81 / 89
p0 29.98 ± 4.909
150
100
50
0
−50
−100
pull
Entries 90
Mean −179.8
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
−3.5

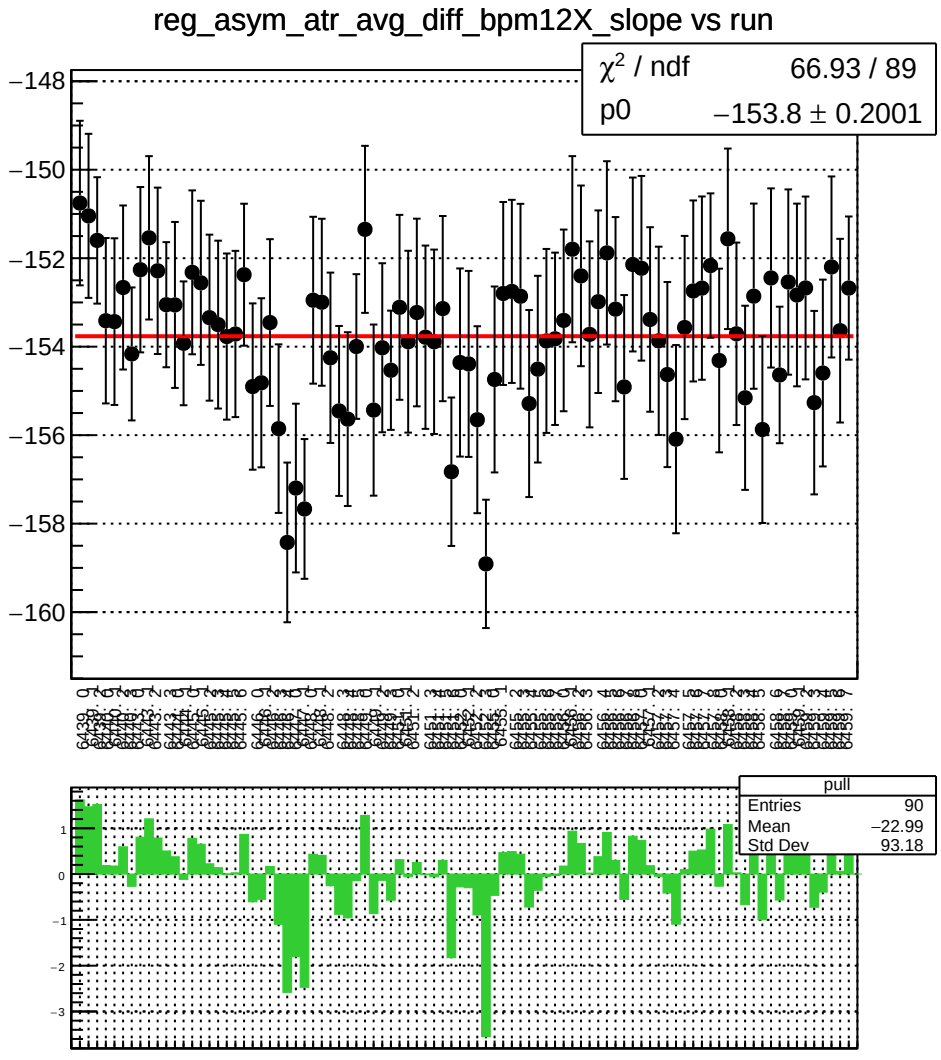

pull1D
Entries 90
Mean 0.01764
Std Dev 0.6217
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

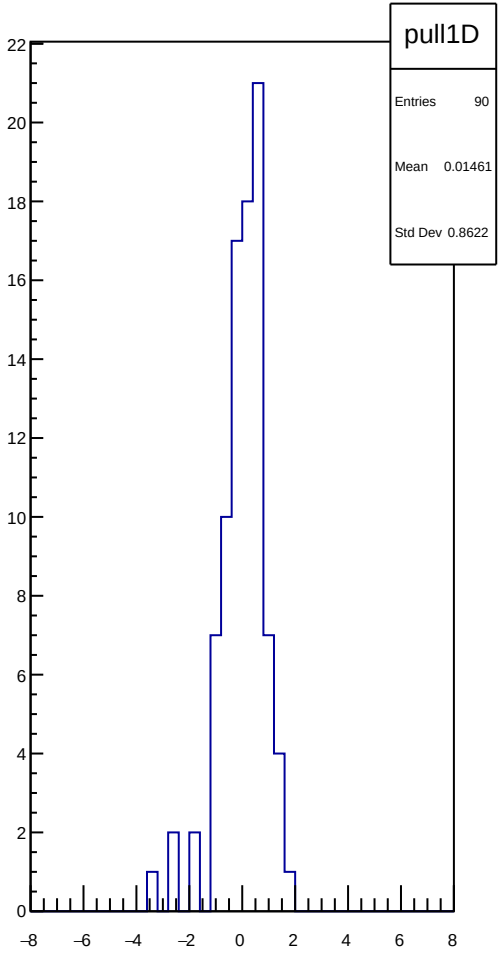

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 74.9 / 89
p0 386.2 ± 4.256
pull
Entries 90
Mean 278.7
Std Dev 0

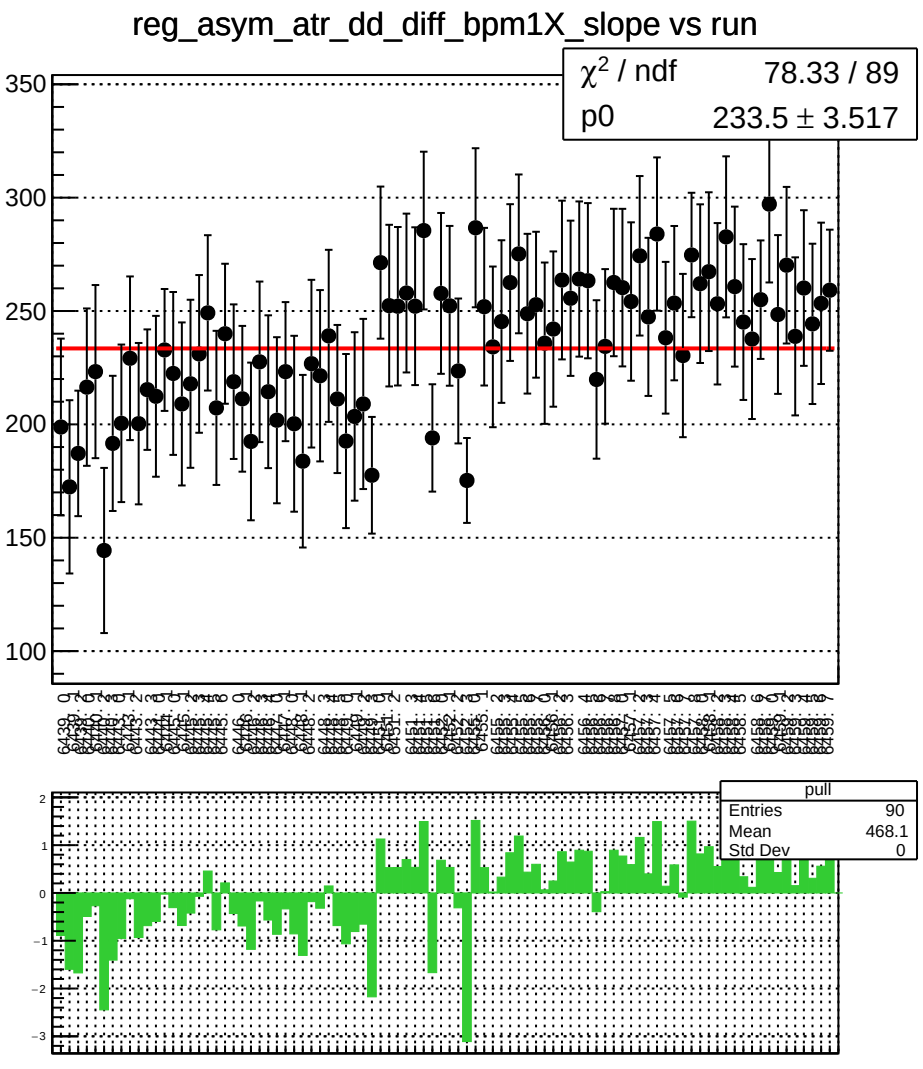

pull1D
Entries 90
Mean 0.04356
Std Dev 0.9112

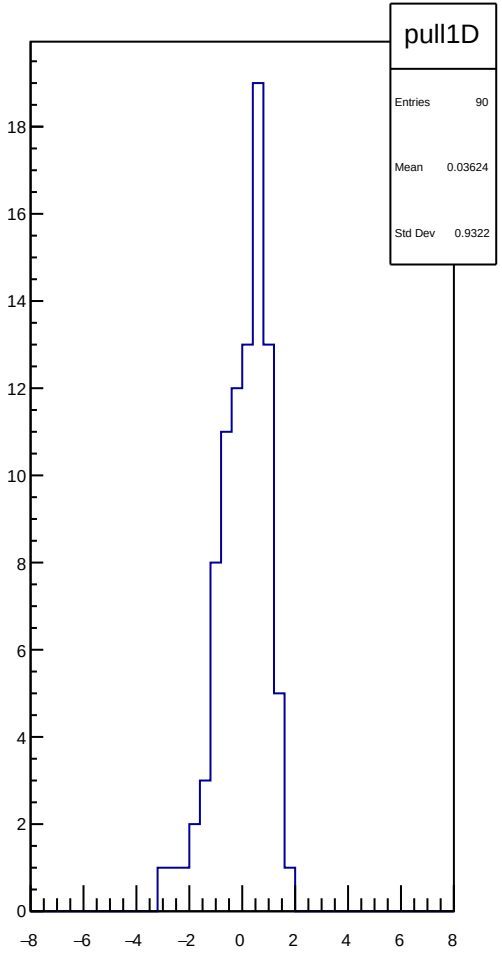

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 44.3 / 89
p0 48.62 ± 4.918
200
150
100
50
0
−50
pull
Entries 90
Mean −204.2
Std Dev 0
4
3
2
1
0
−1

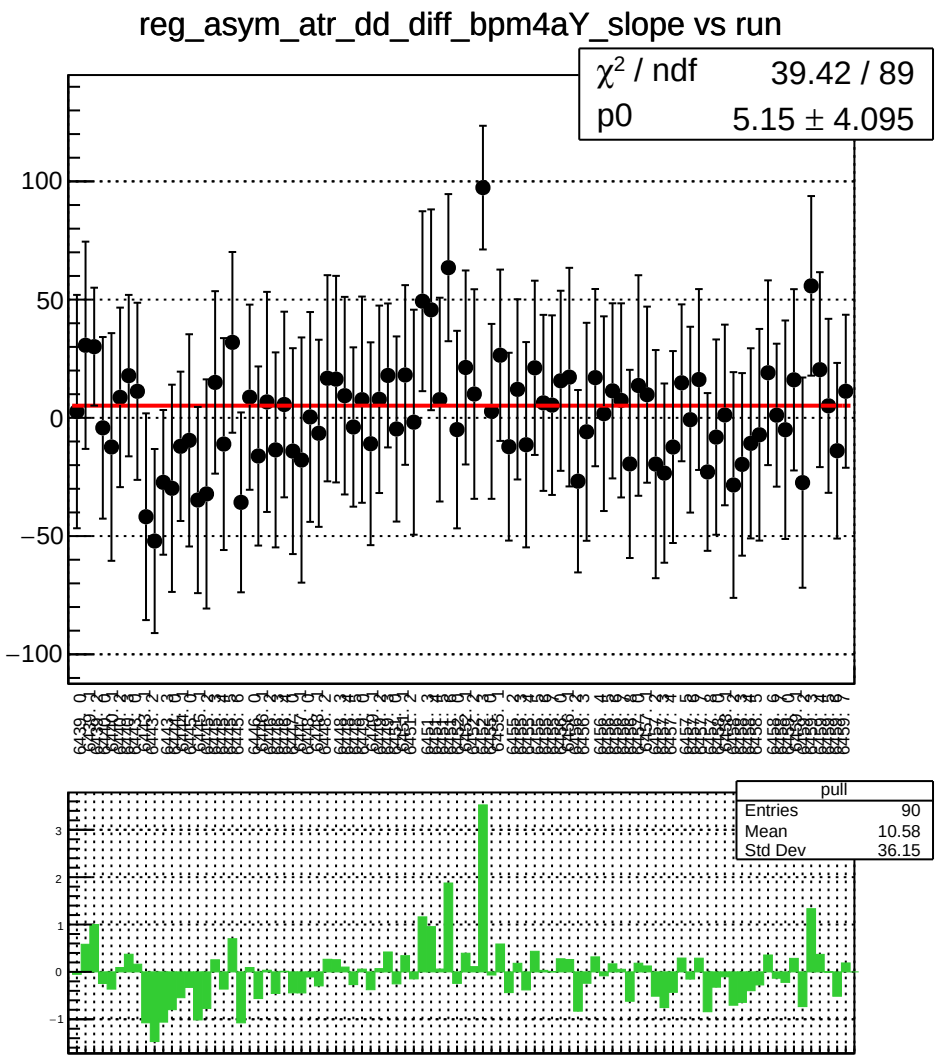

pull1D
Entries 90
Mean −0.02572
Std Dev 0.7011
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

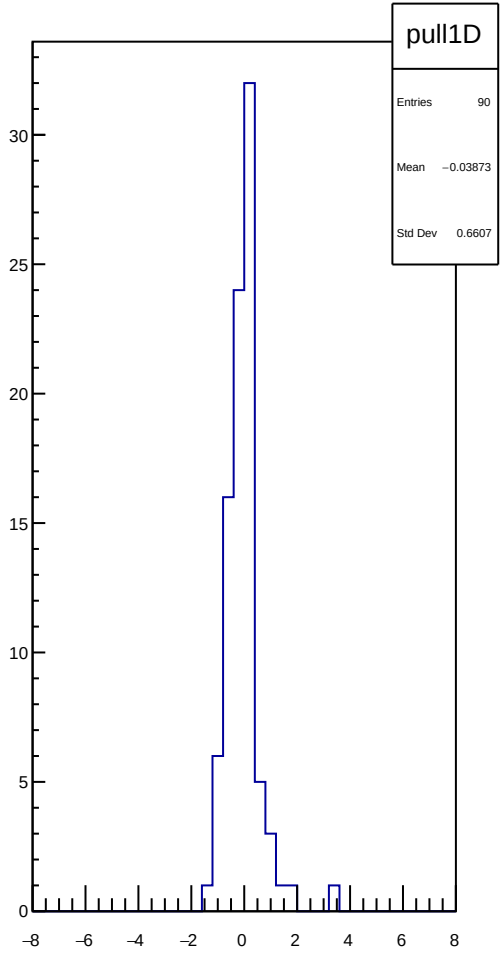

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 66.93 / 89
p0 −153.8 ± 0.2001
pull
Entries 90
Mean −22.99
Std Dev 93.18

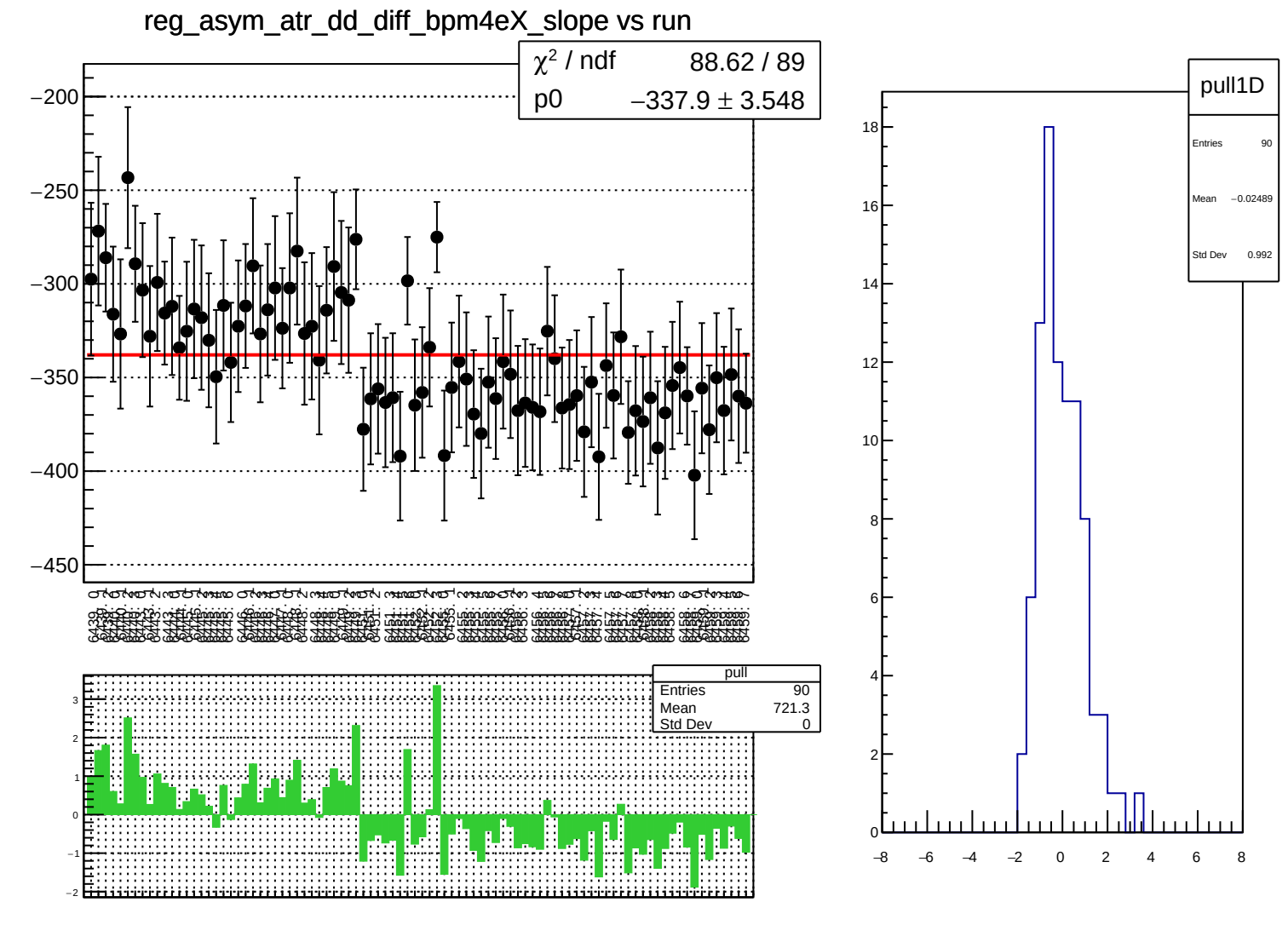

pull1D
Entries 90
Mean 0.01461
Std Dev 0.8622

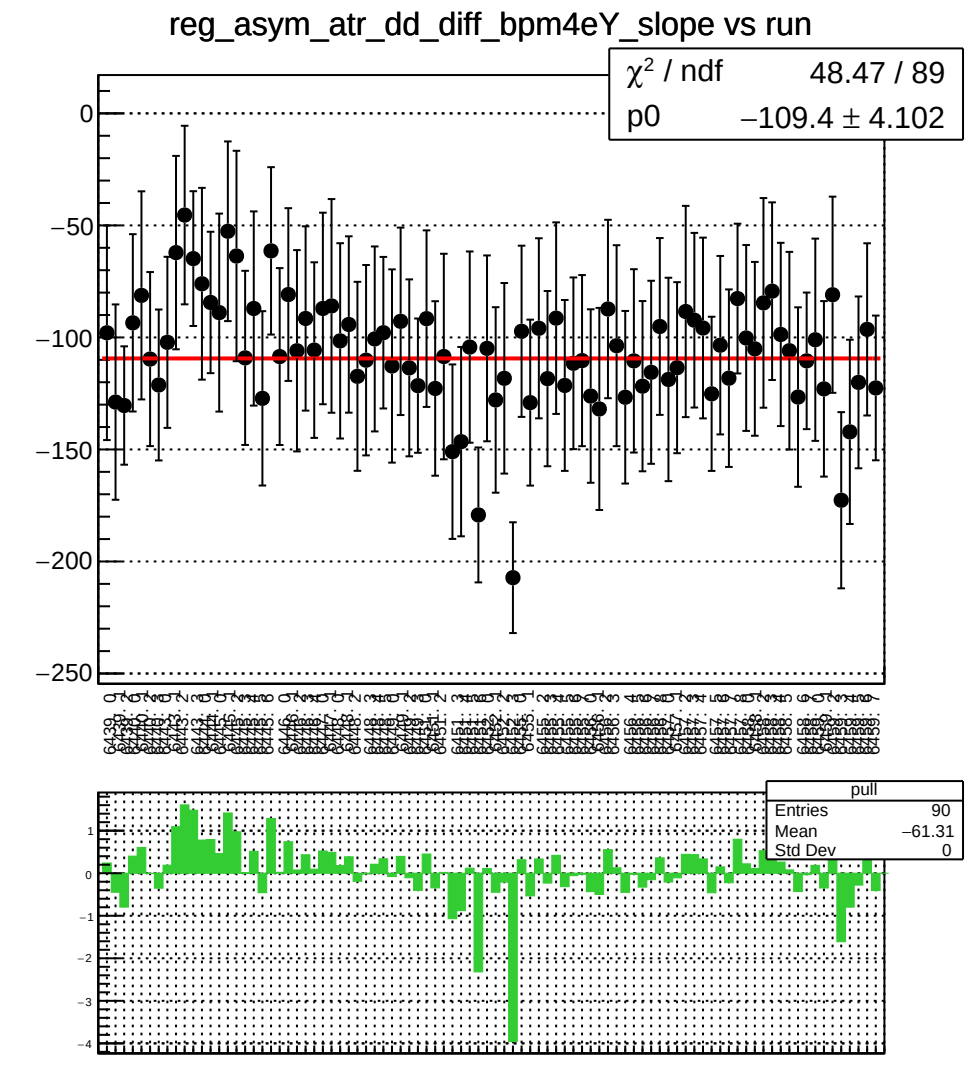

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 78.33 / 89
p0 233.5 ± 3.517
pull
Entries 90
Mean 468.1
Std Dev 0

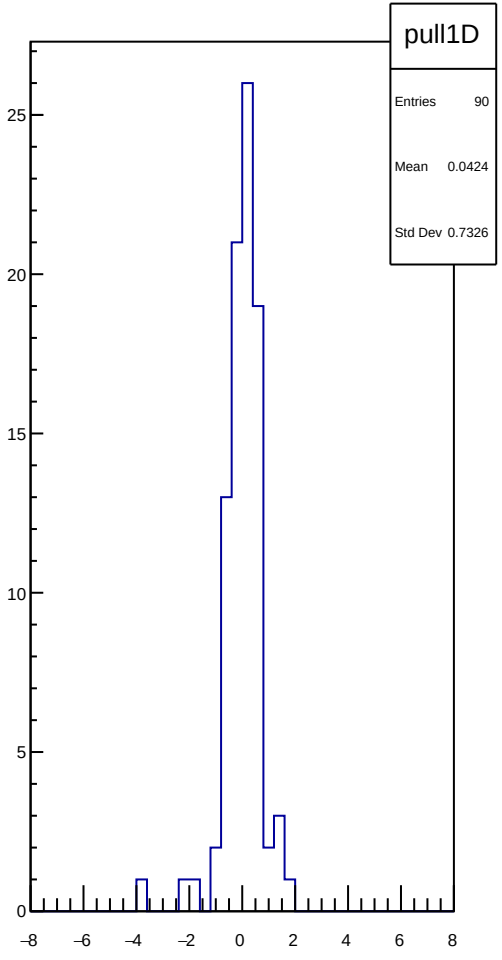

pull1D
Entries 90
Mean 0.03624
Std Dev 0.9322

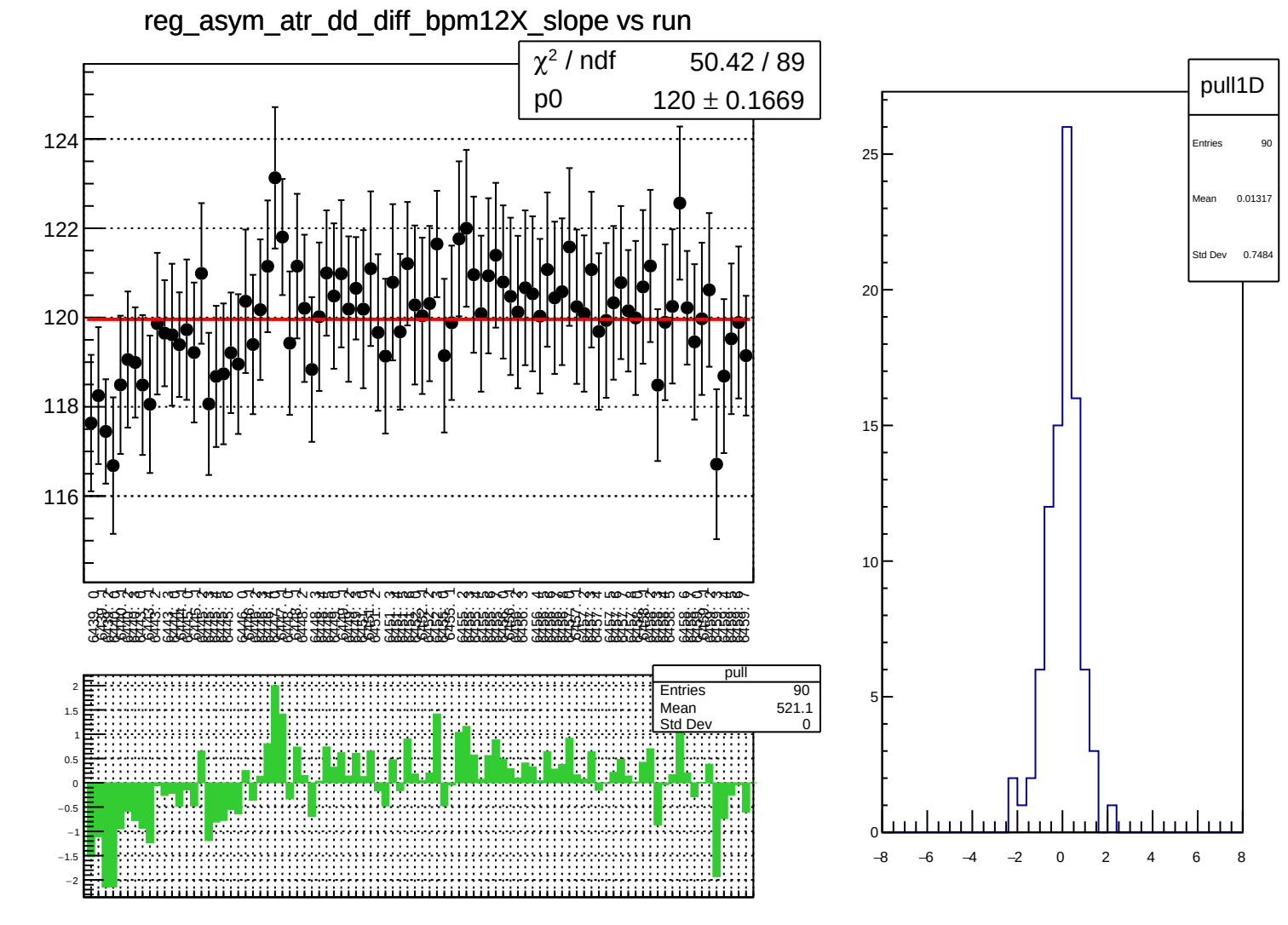

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 39.42 / 89
p0 5.15 ± 4.095
100
50
0
−50
−100
pull
Entries 90
Mean 10.58
Std Dev 36.15
3
2
1
0
−1

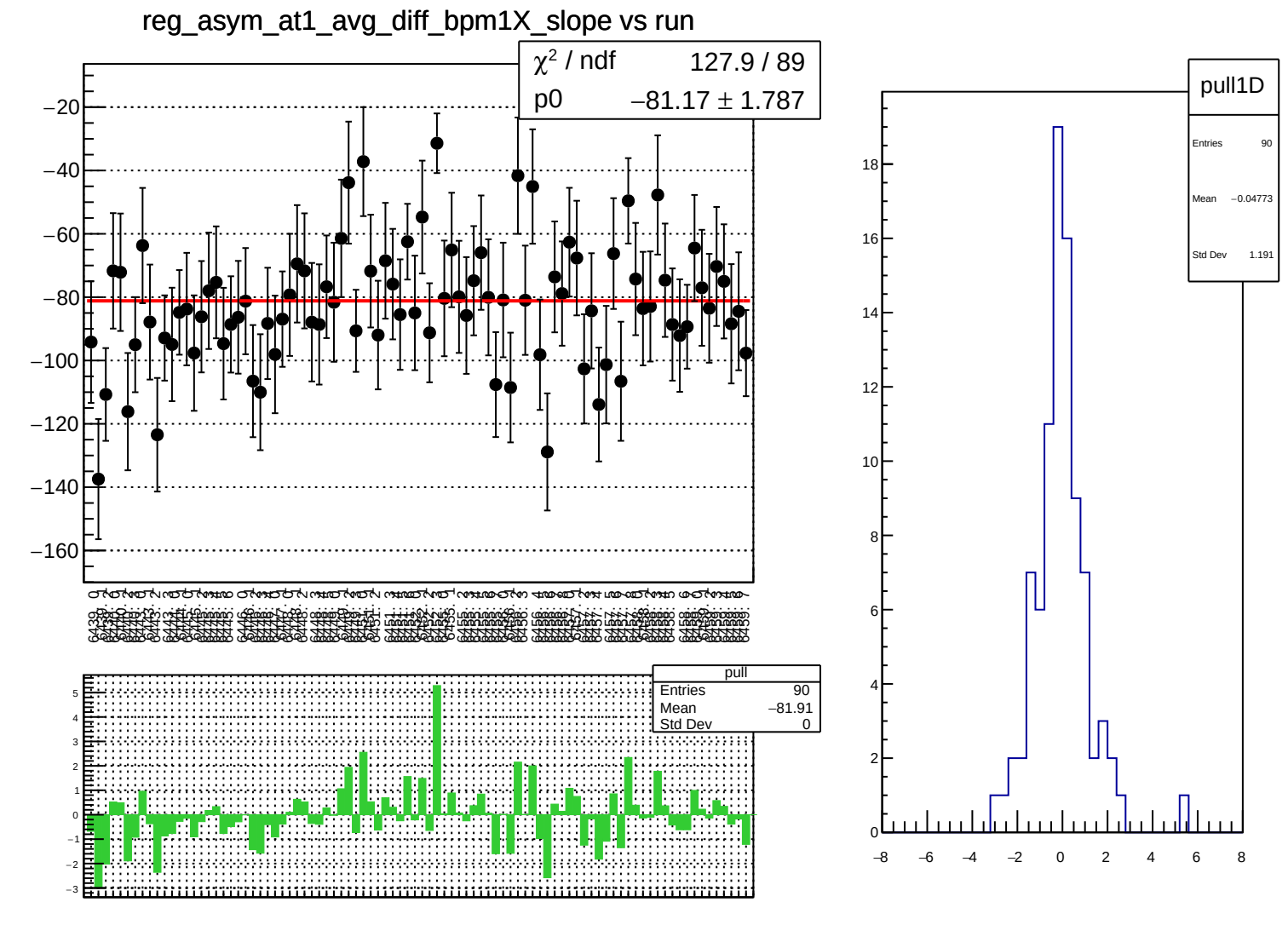

pull1D
Entries 90
Mean −0.03873
Std Dev 0.6607
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

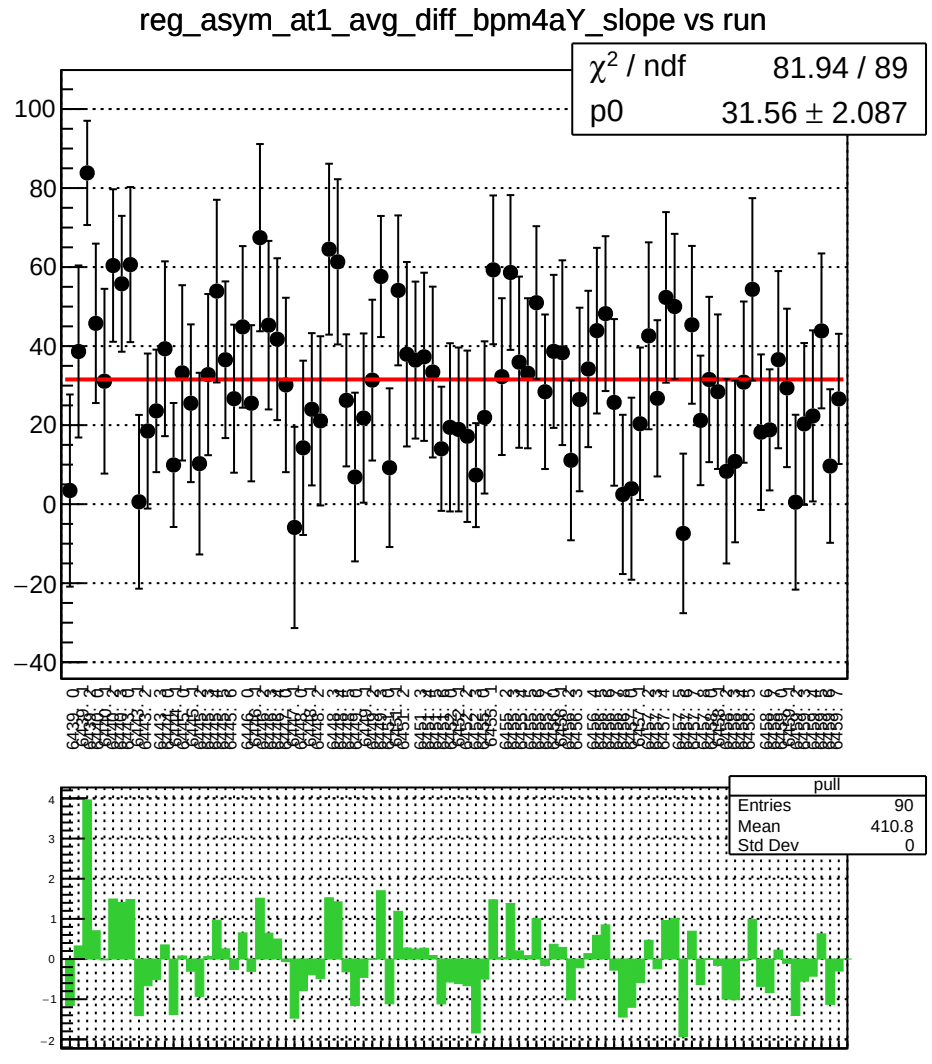

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 88.62 / 89
p0 −337.9 ± 3.548
−200
−250
−300
−350
−400
−450
pull
Entries 90
Mean 721.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.02489
Std Dev 0.992
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

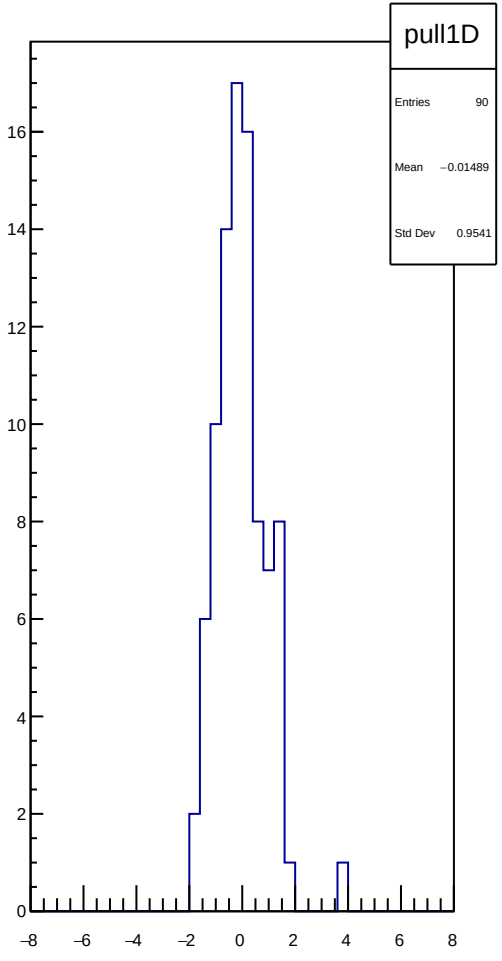

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 48.47 / 89
p0 −109.4 ± 4.102
0
−50
−100
−150
−200
−250
pull
Entries 90
Mean −61.31
Std Dev 0
1
0
−1
−2
−3
−4

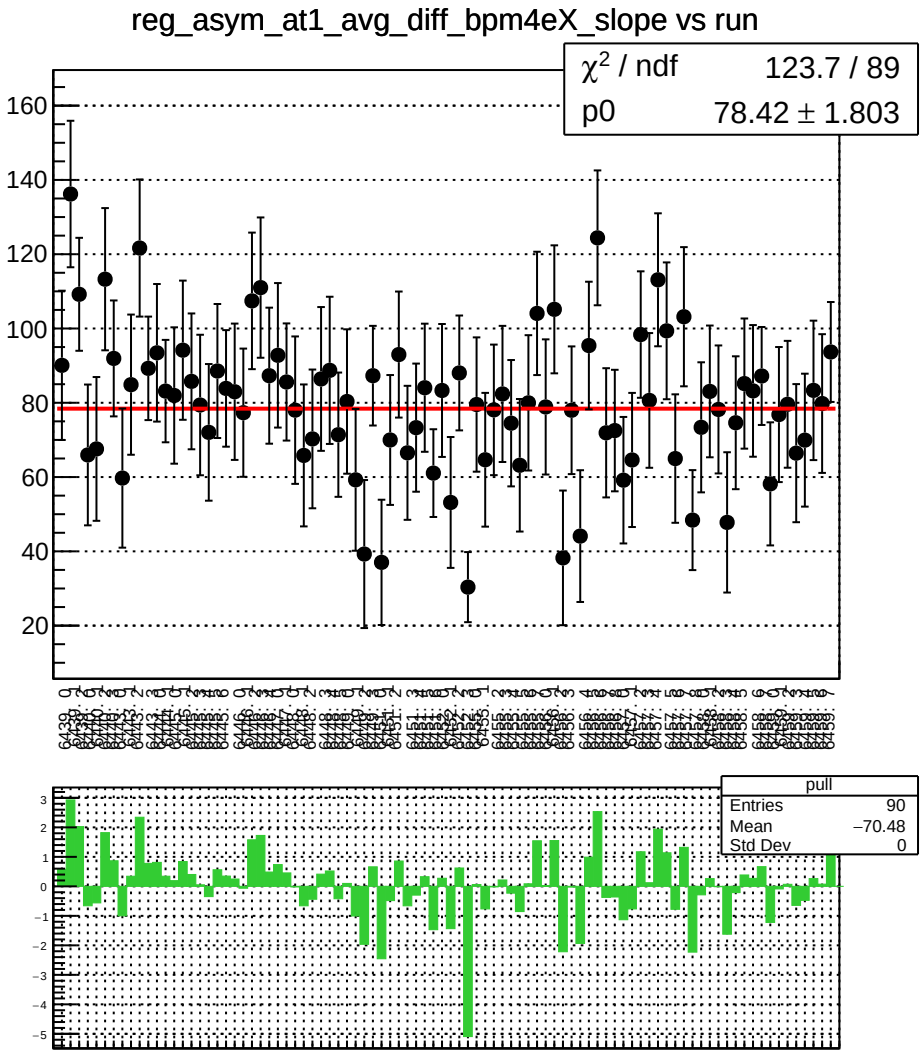

pull1D
Entries 90
Mean 0.0424
Std Dev 0.7326
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

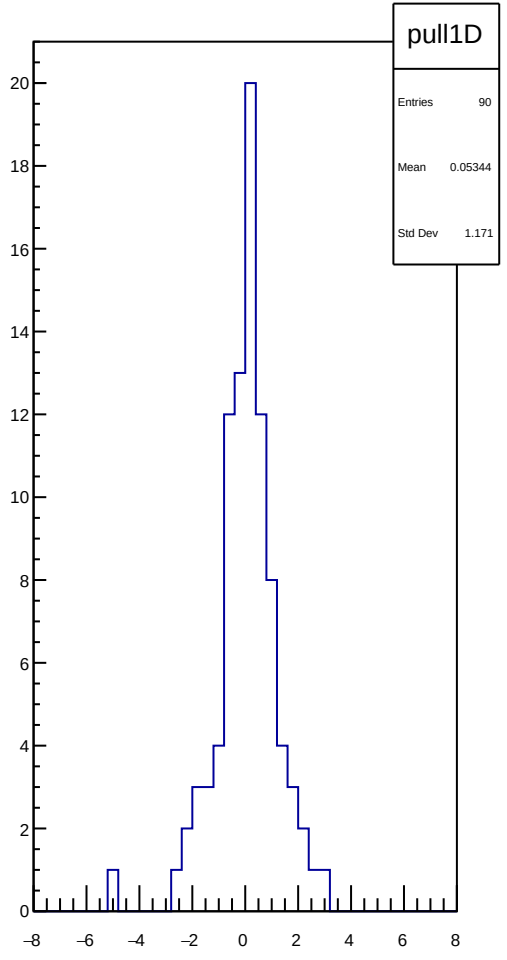

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ^2 / ndf 50.42 / 89
p0 120 ± 0.1669
124
122
120
118
116
pull
Entries 90
Mean 521.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 90
Mean 0.01317
Std Dev 0.7484
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

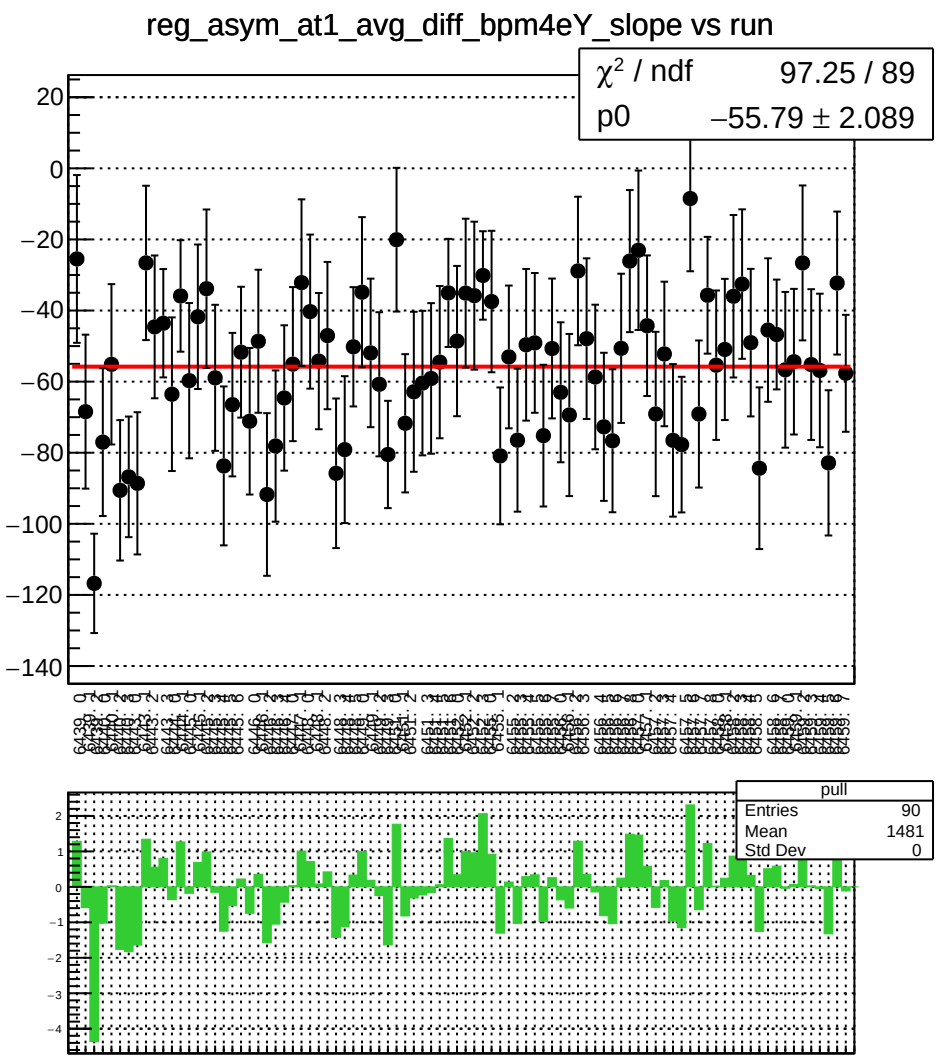

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 127.9 / 89
p0 −81.17 ± 1.787
pull
Entries 90
Mean −81.91
Std Dev 0
pull1D
Entries 90
Mean −0.04773
Std Dev 1.191

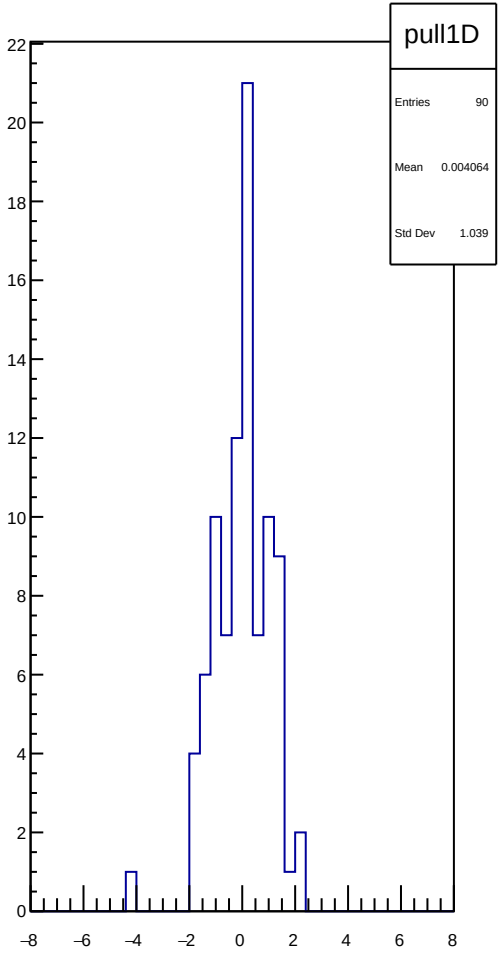

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 81.94 / 89
p0 31.56 ± 2.087
pull
Entries 90
Mean 410.8
Std Dev 0

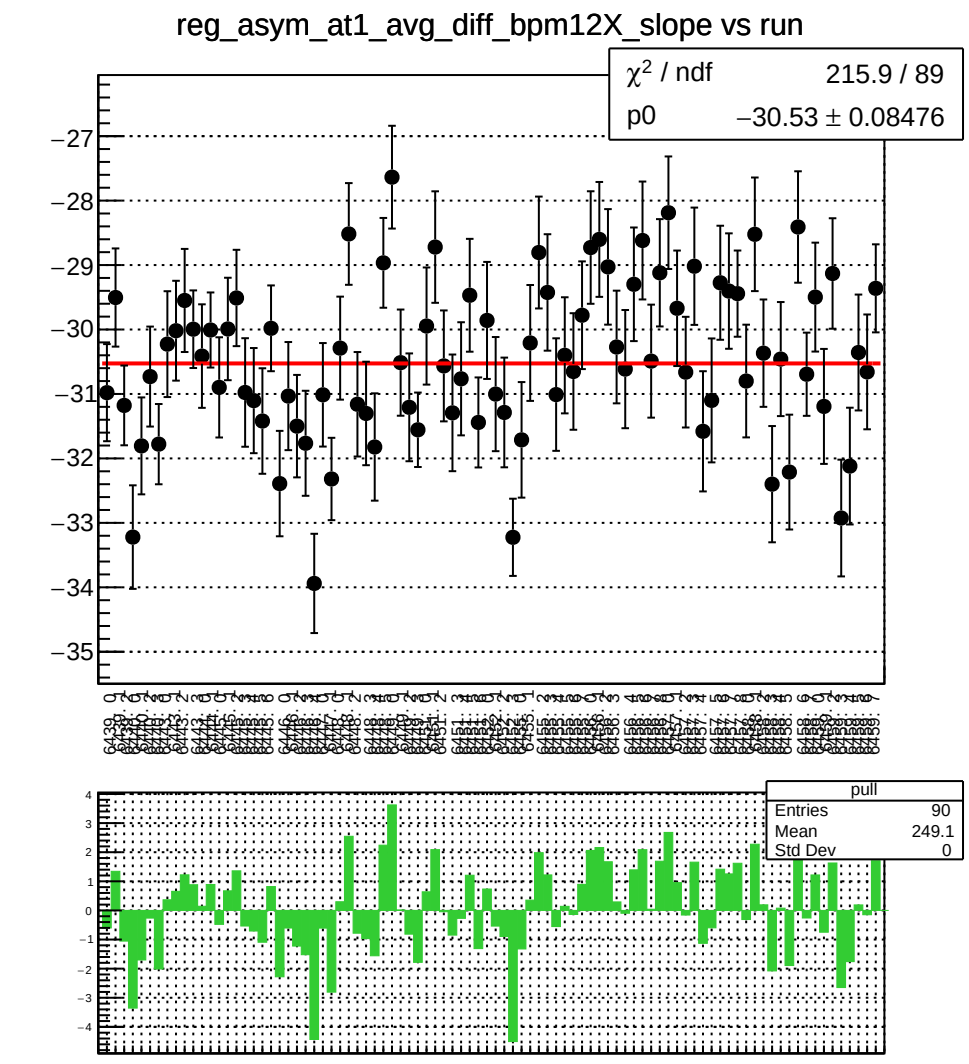

pull1D
Entries 90
Mean −0.01489
Std Dev 0.9541

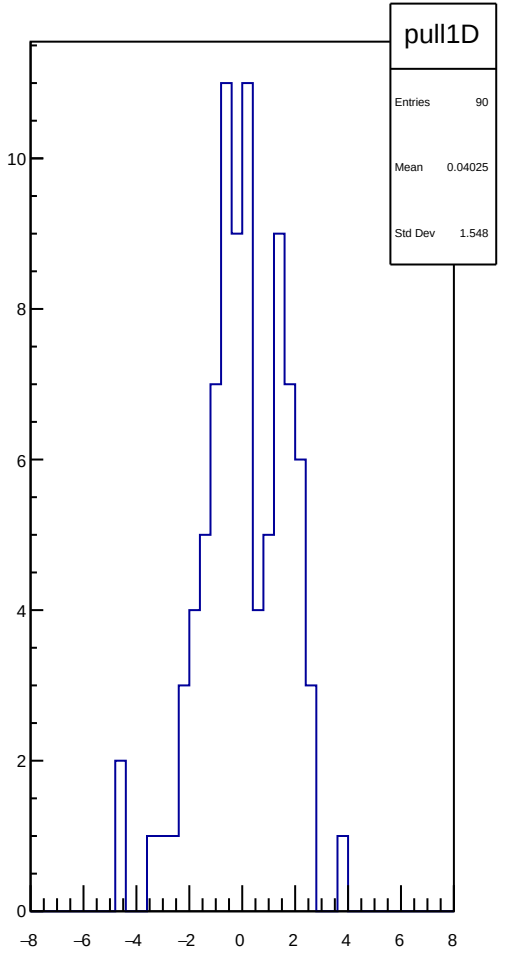

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 123.7 / 89
p0 78.42 ± 1.803
pull
Entries 90
Mean −70.48
Std Dev 0

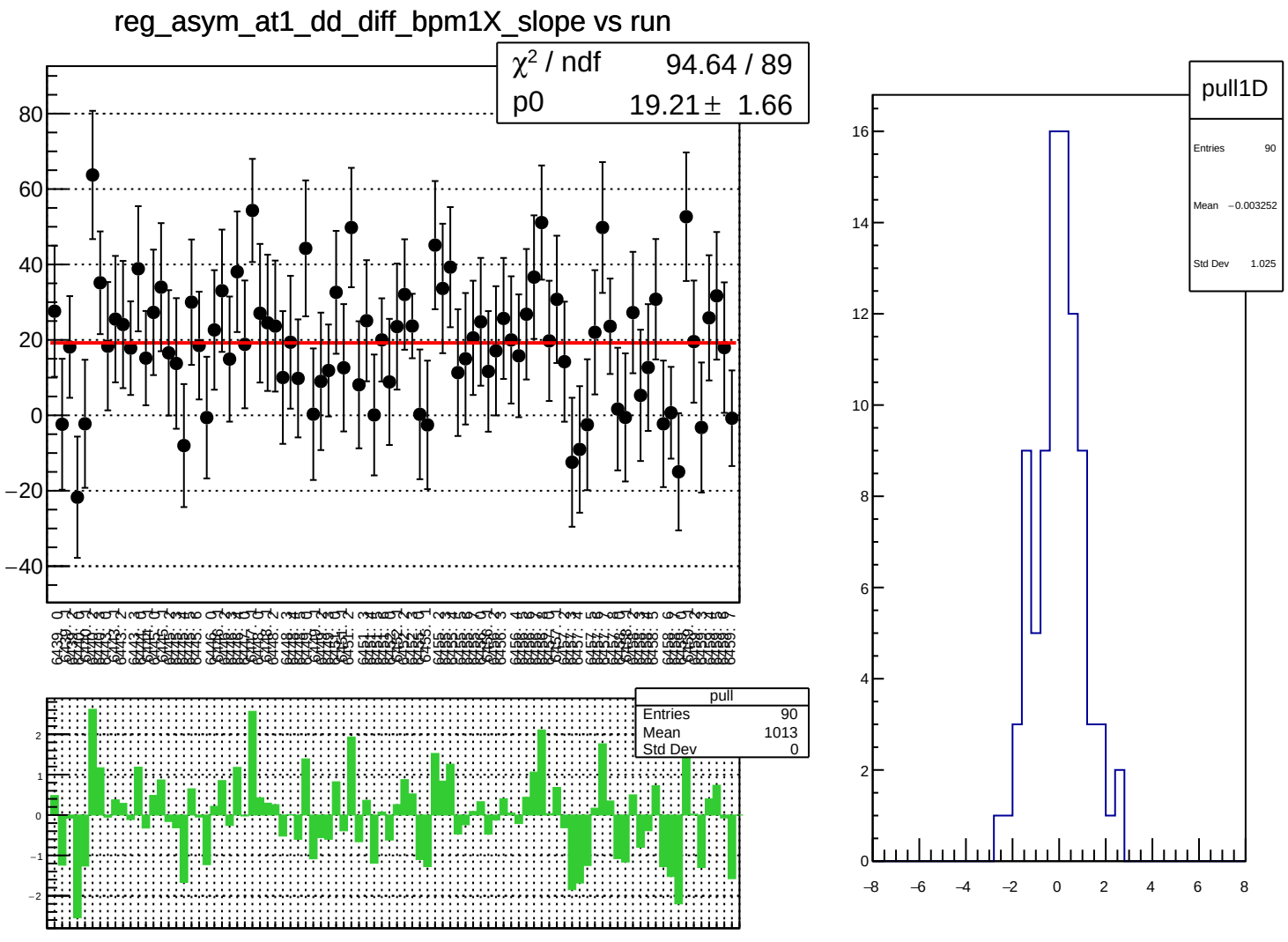

pull1D
Entries 90
Mean 0.05344
Std Dev 1.171

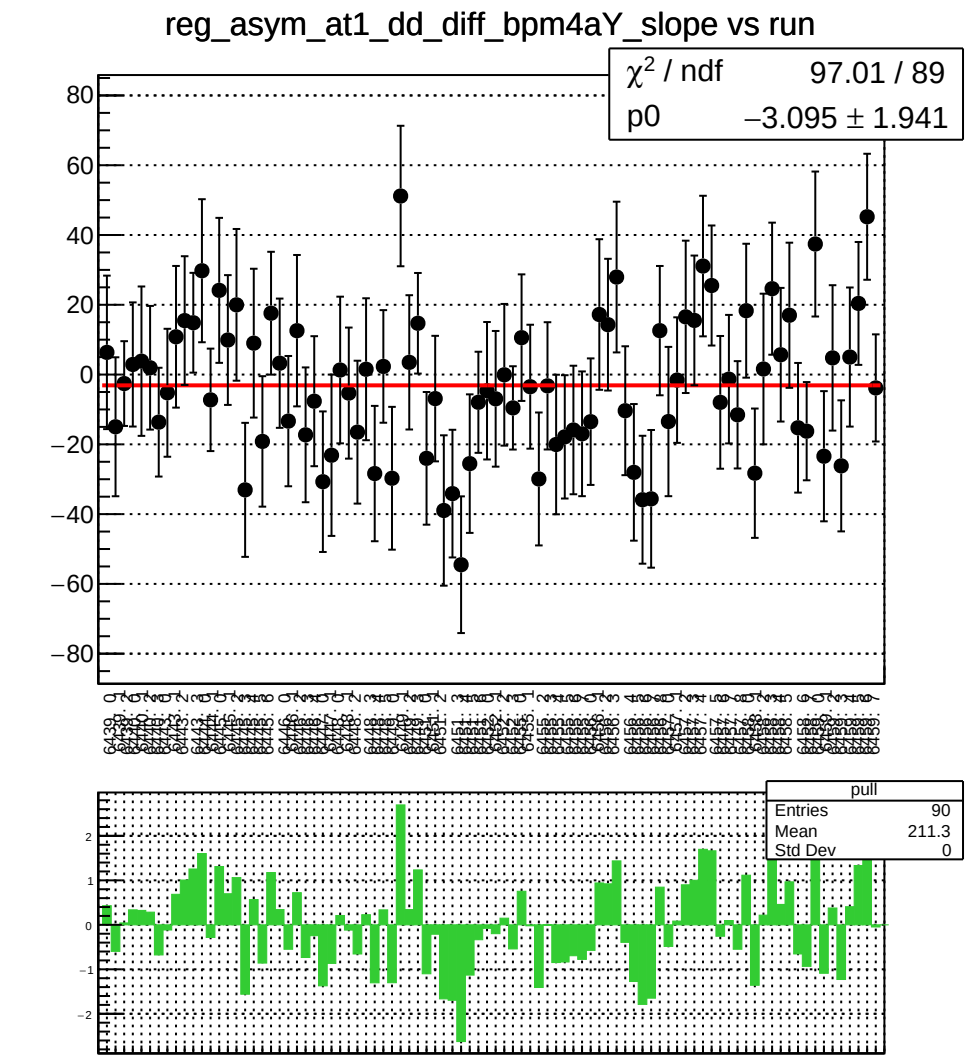

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 97.25 / 89
p0 −55.79 ± 2.089
pull
Entries 90
Mean 1481
Std Dev 0

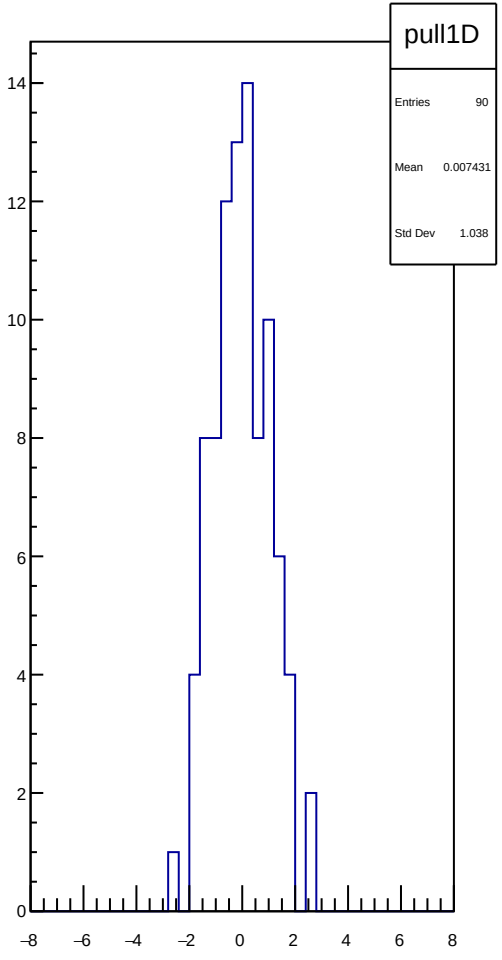

pull1D
Entries 90
Mean 0.004064
Std Dev 1.039

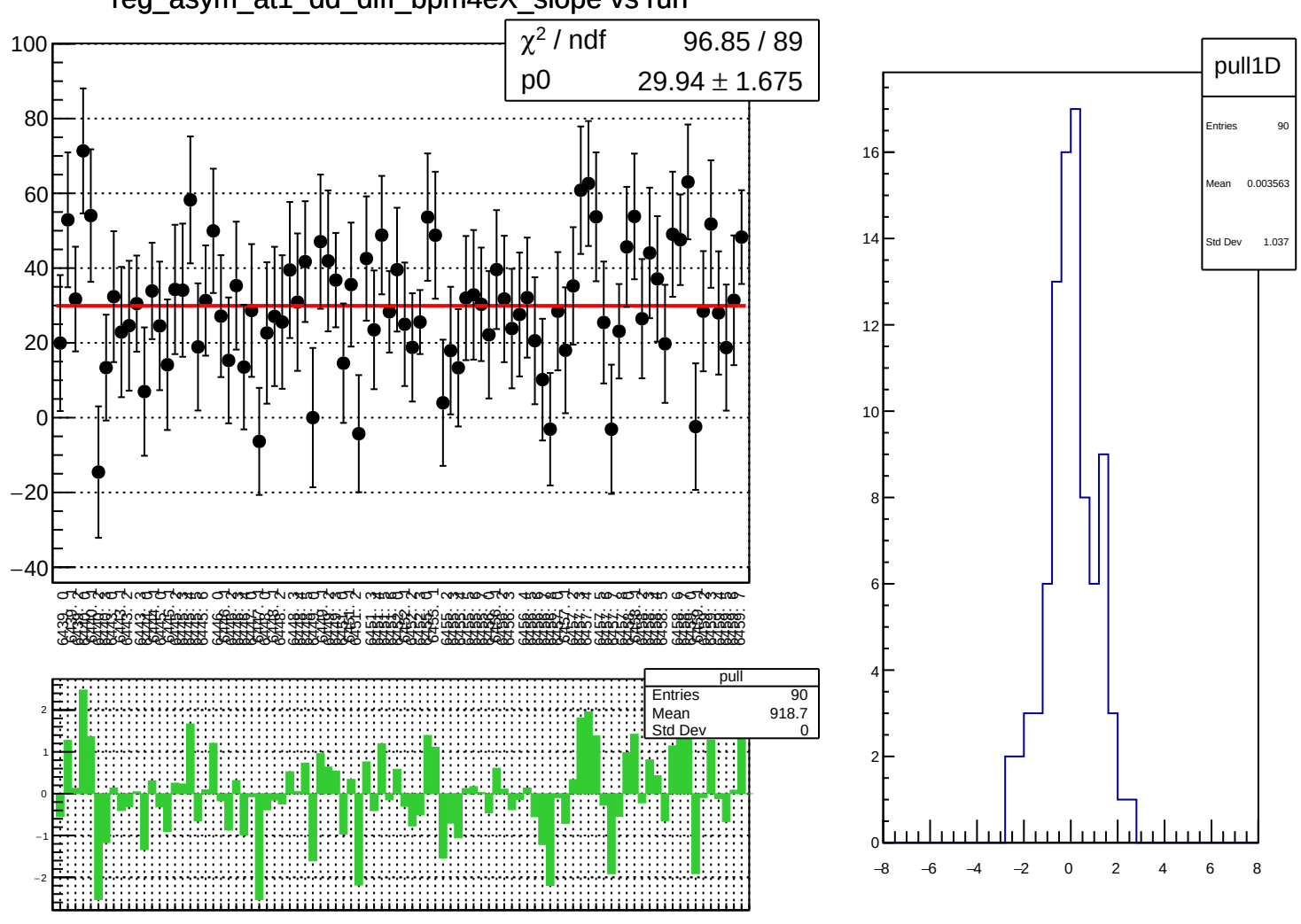

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 215.9 / 89
p0 −30.53 ± 0.08476
pull
Entries 90
Mean 249.1
Std Dev 0

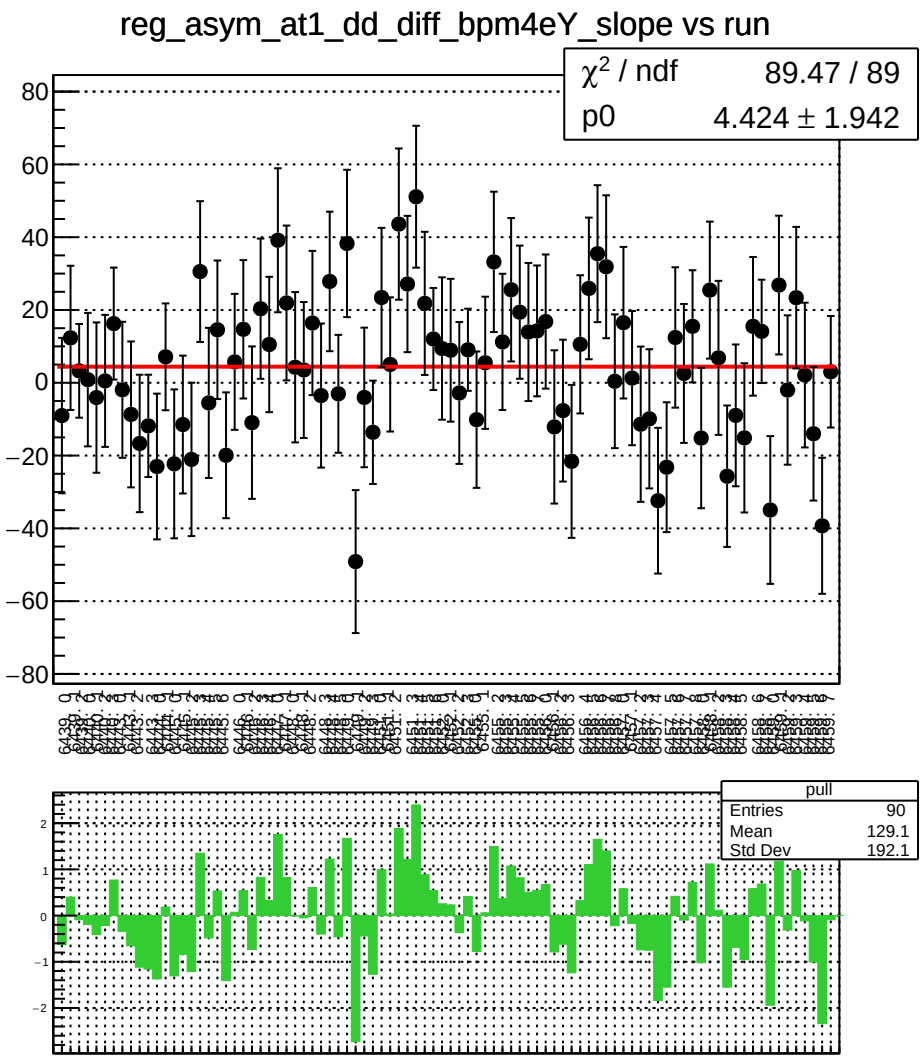

pull1D
Entries 90
Mean 0.04025
Std Dev 1.548

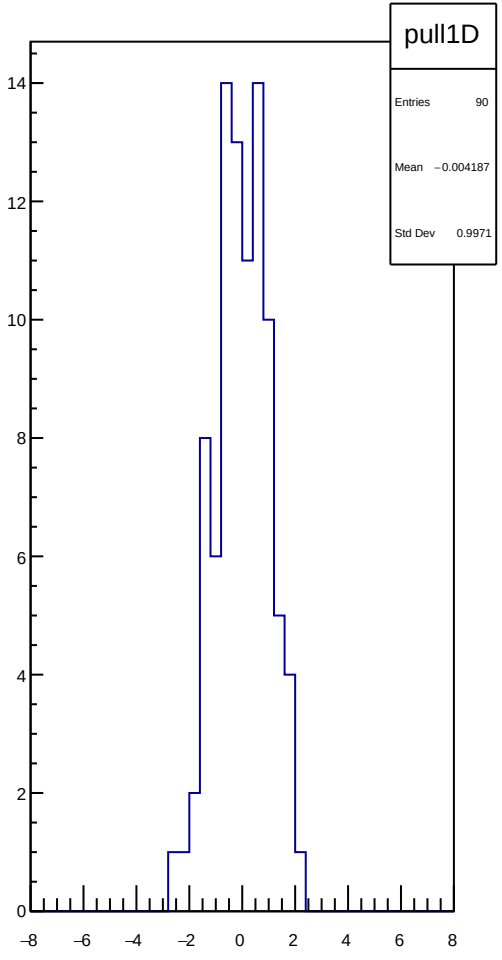

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 94.64 / 89
p0 19.21 ± 1.66
pull
Entries 90
Mean 1013
Std Dev 0
pull1D
Entries 90
Mean −0.003252
Std Dev 1.025

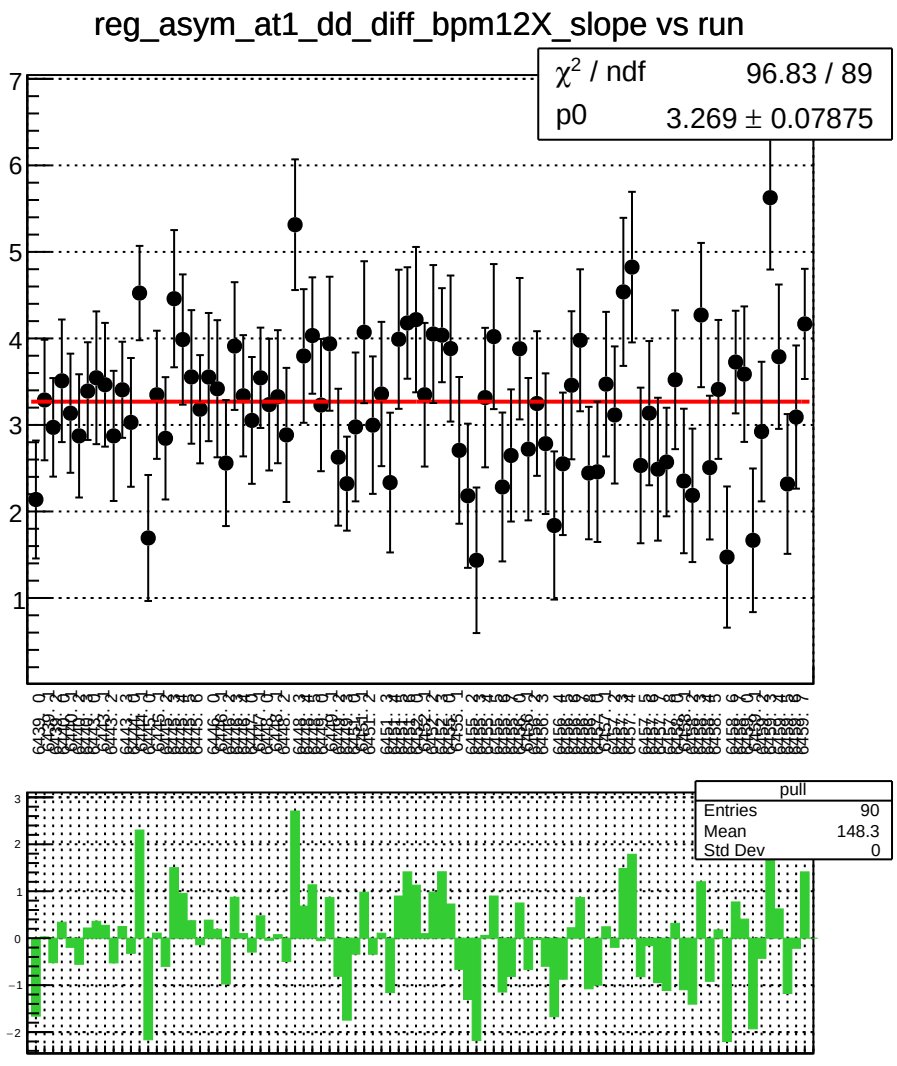

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 97.01 / 89
p0 −3.095 ± 1.941
pull
Entries 90
Mean 211.3
Std Dev 0

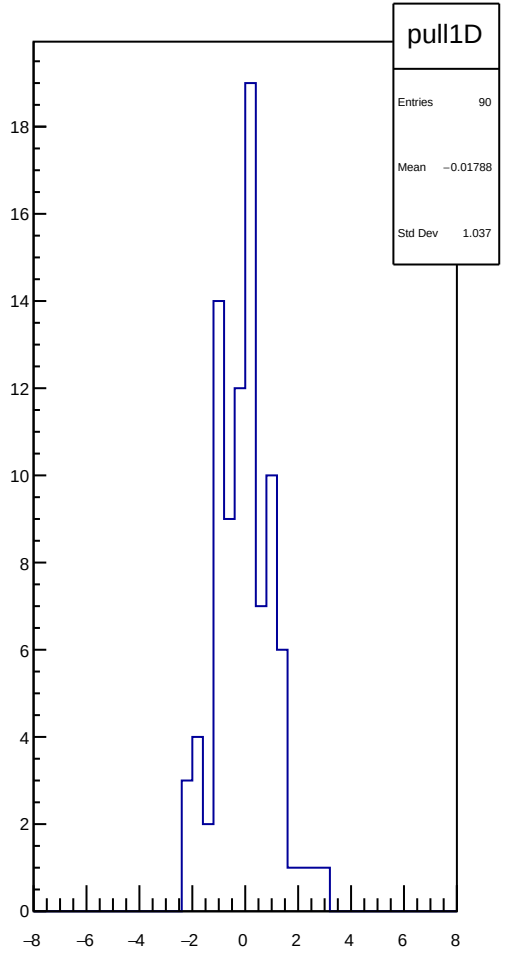

pull1D
Entries 90
Mean 0.007431
Std Dev 1.038

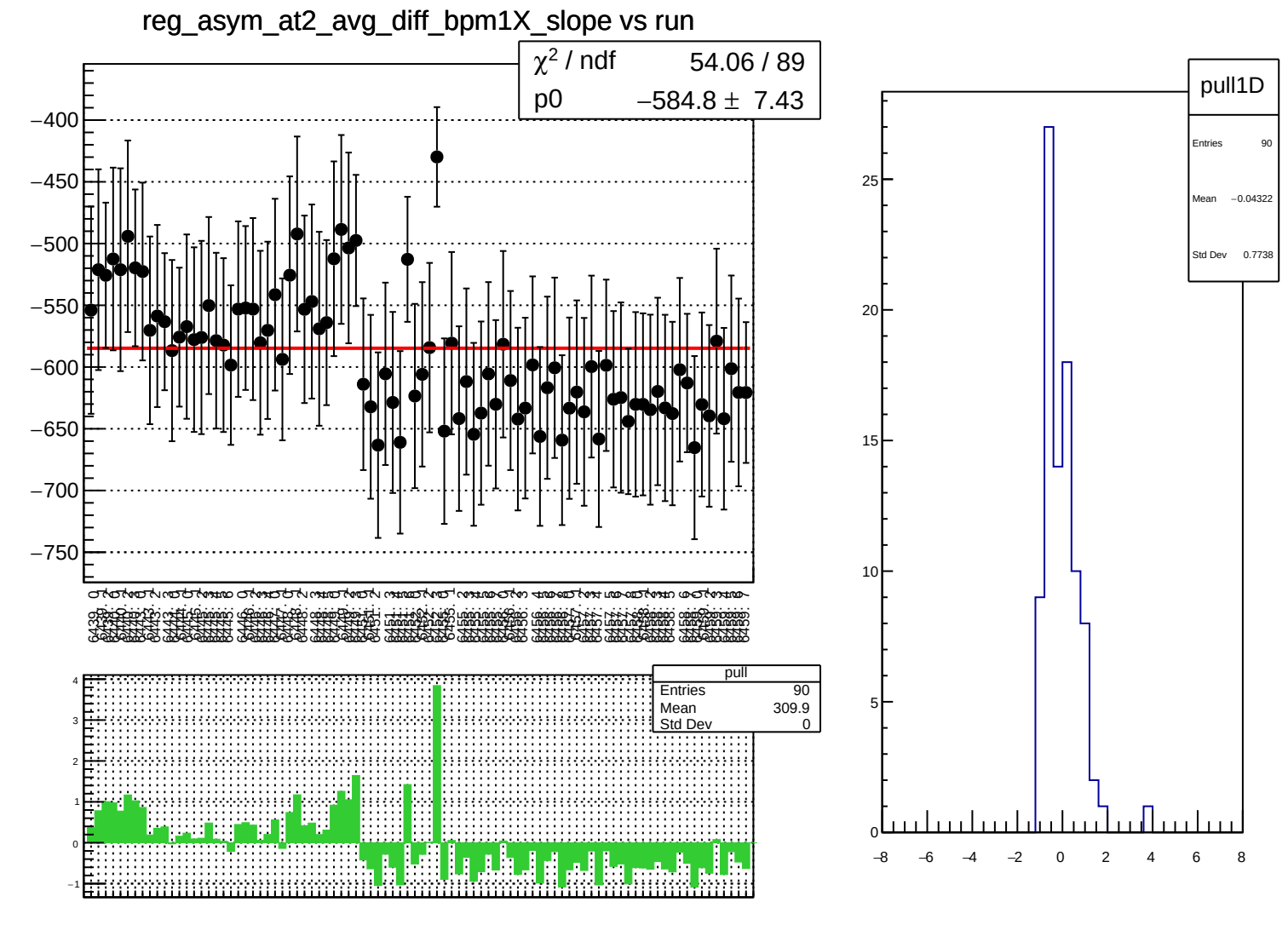

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 96.85 / 89
p0 29.94 ± 1.675
pull
Entries 90
Mean 918.7
Std Dev 0
pull1D
Entries 90
Mean 0.003563
Std Dev 1.037

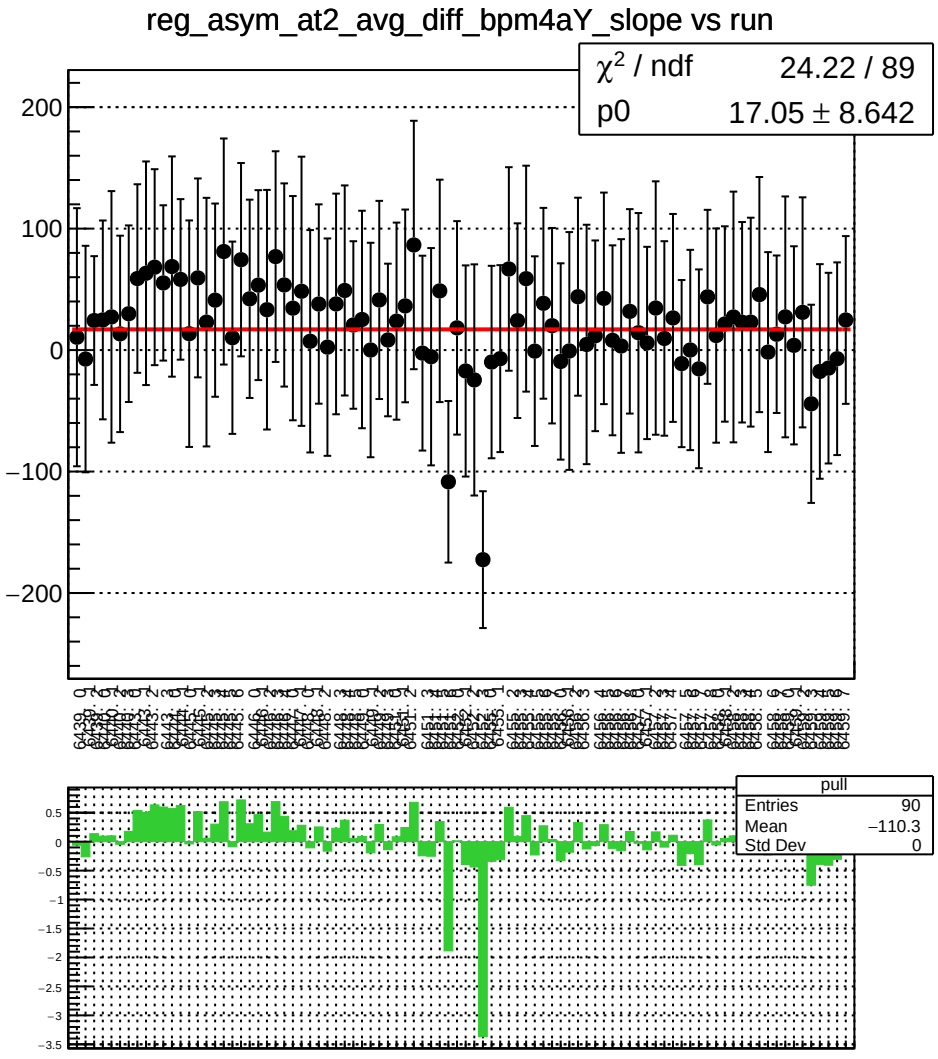

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 89.47 / 89
p0 4.424 ± 1.942
pull
Entries 90
Mean 129.1
Std Dev 192.1

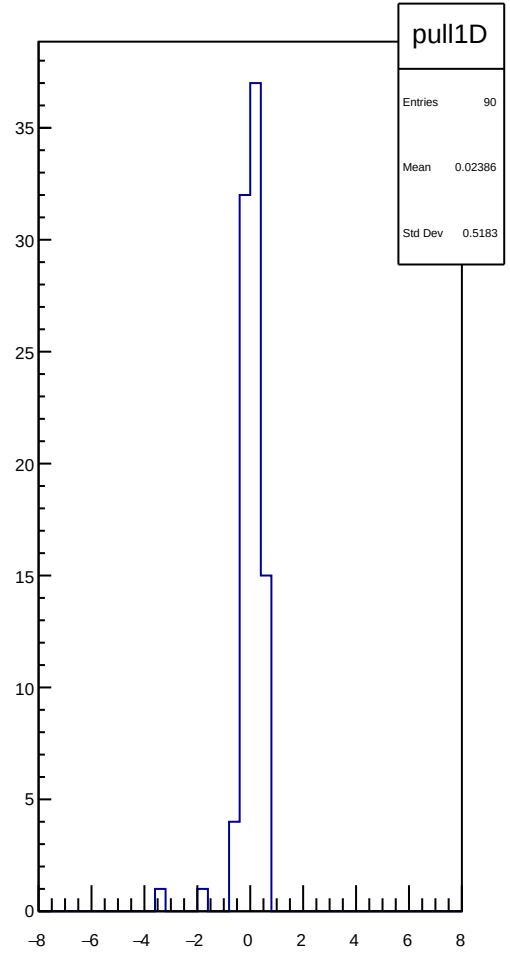

pull1D
Entries 90
Mean −0.004187
Std Dev 0.9971

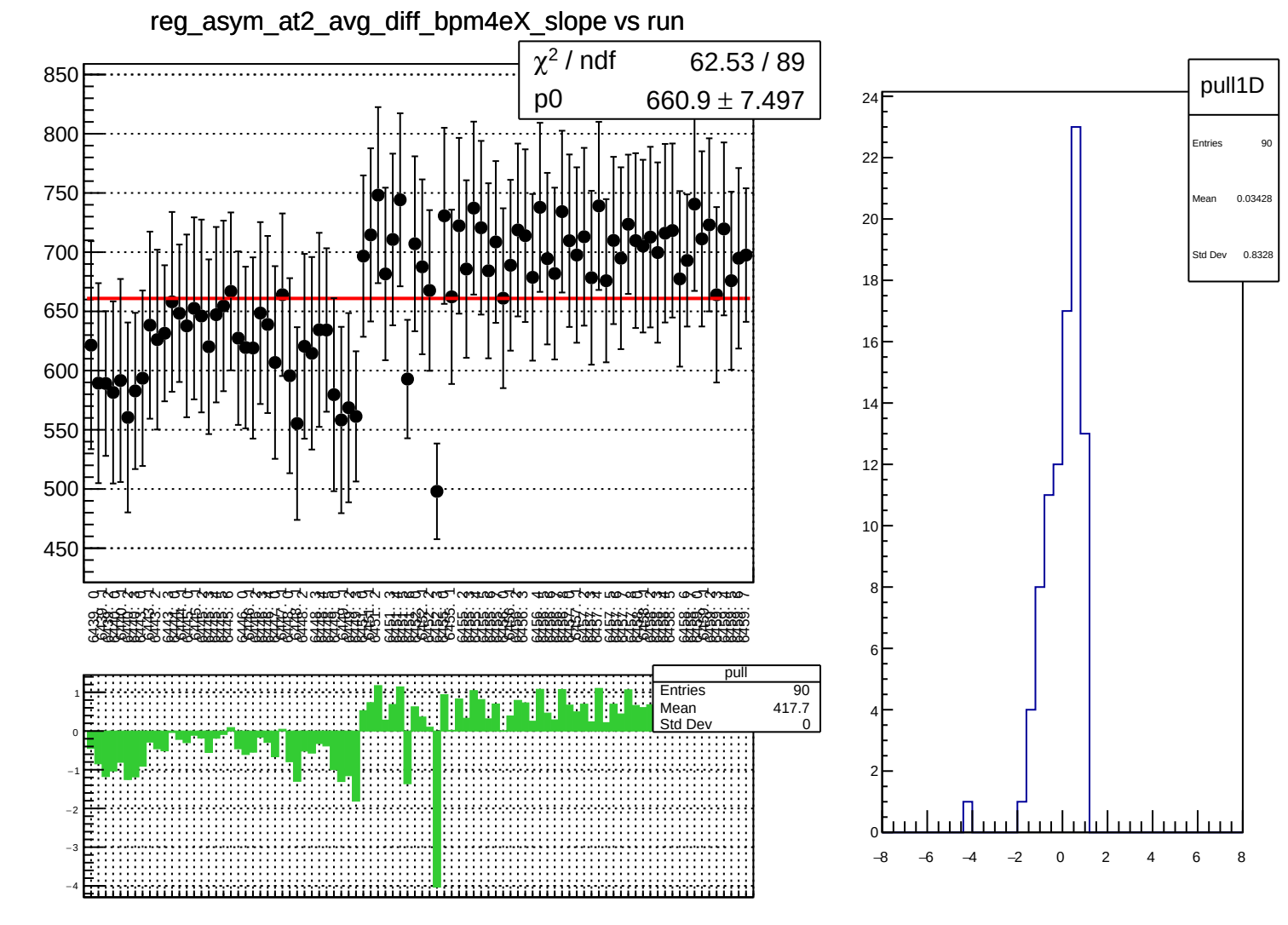

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ^2 / ndf 96.83 / 89
p0 3.269 ± 0.07875
pull
Entries 90
Mean 148.3
Std Dev 0

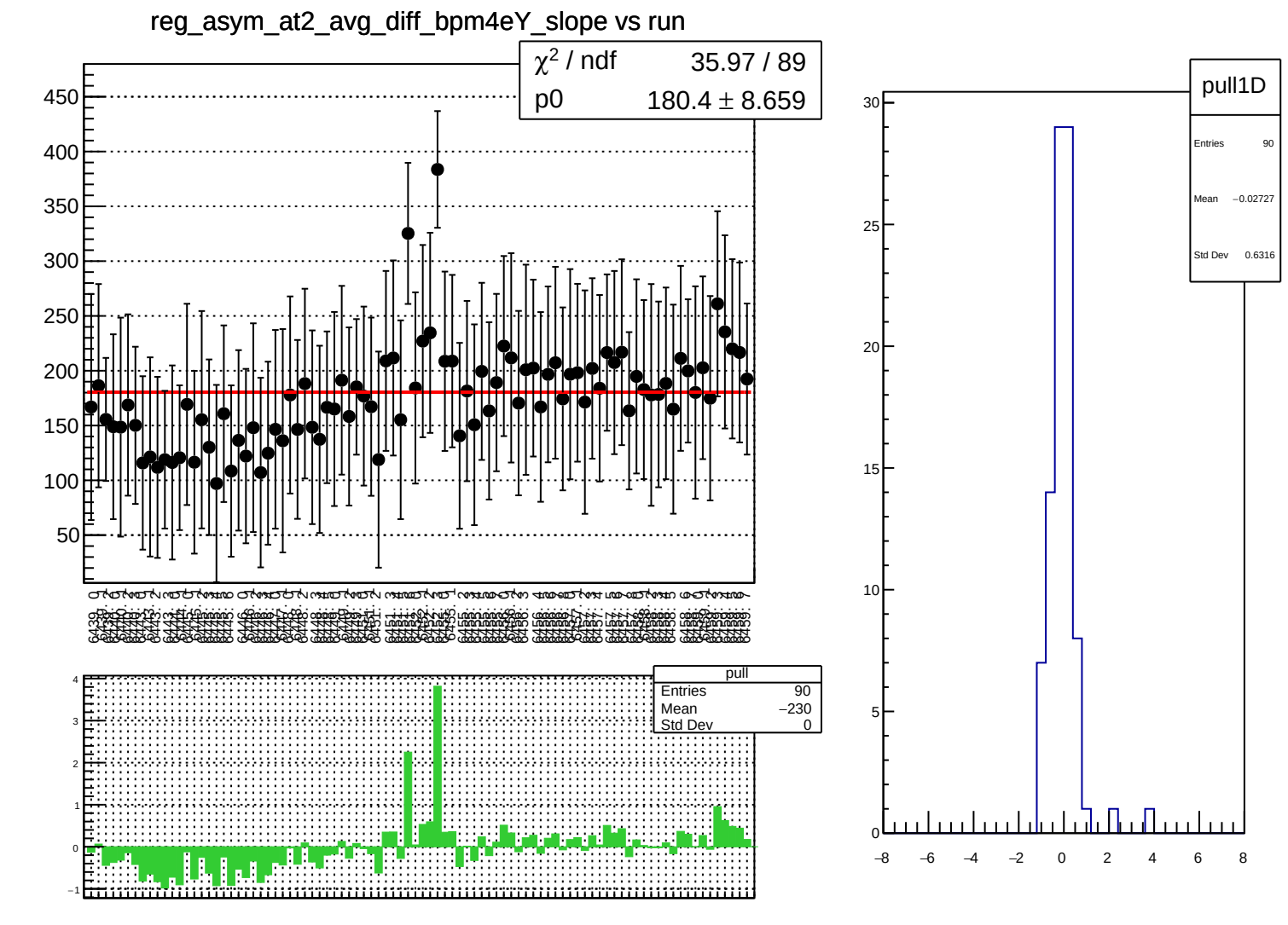

pull1D
Entries 90
Mean −0.01788
Std Dev 1.037

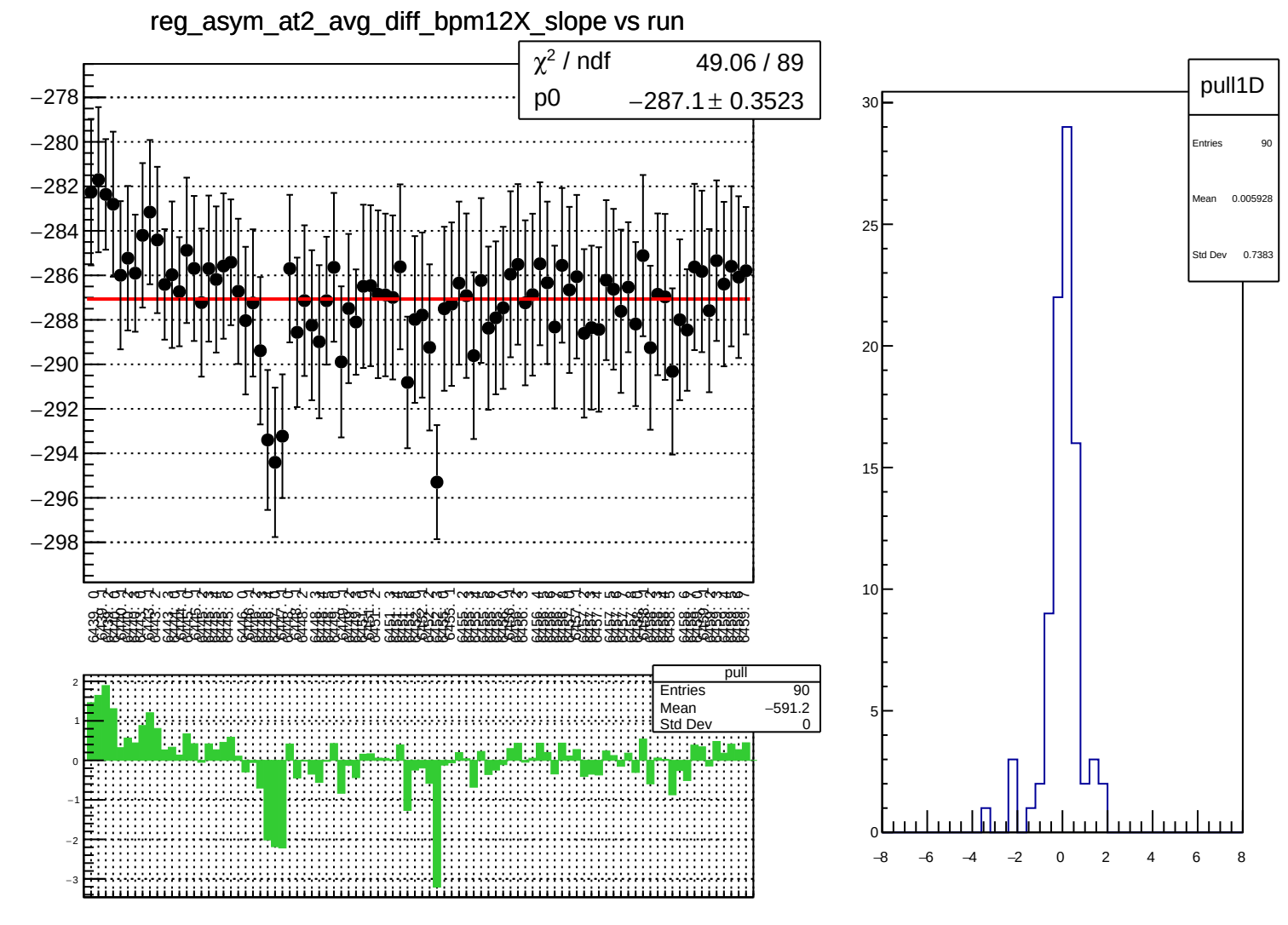

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 54.06 / 89
p0 −584.8 ± 7.43
pull
Entries 90
Mean 309.9
Std Dev 0
pull1D
Entries 90
Mean −0.04322
Std Dev 0.7738

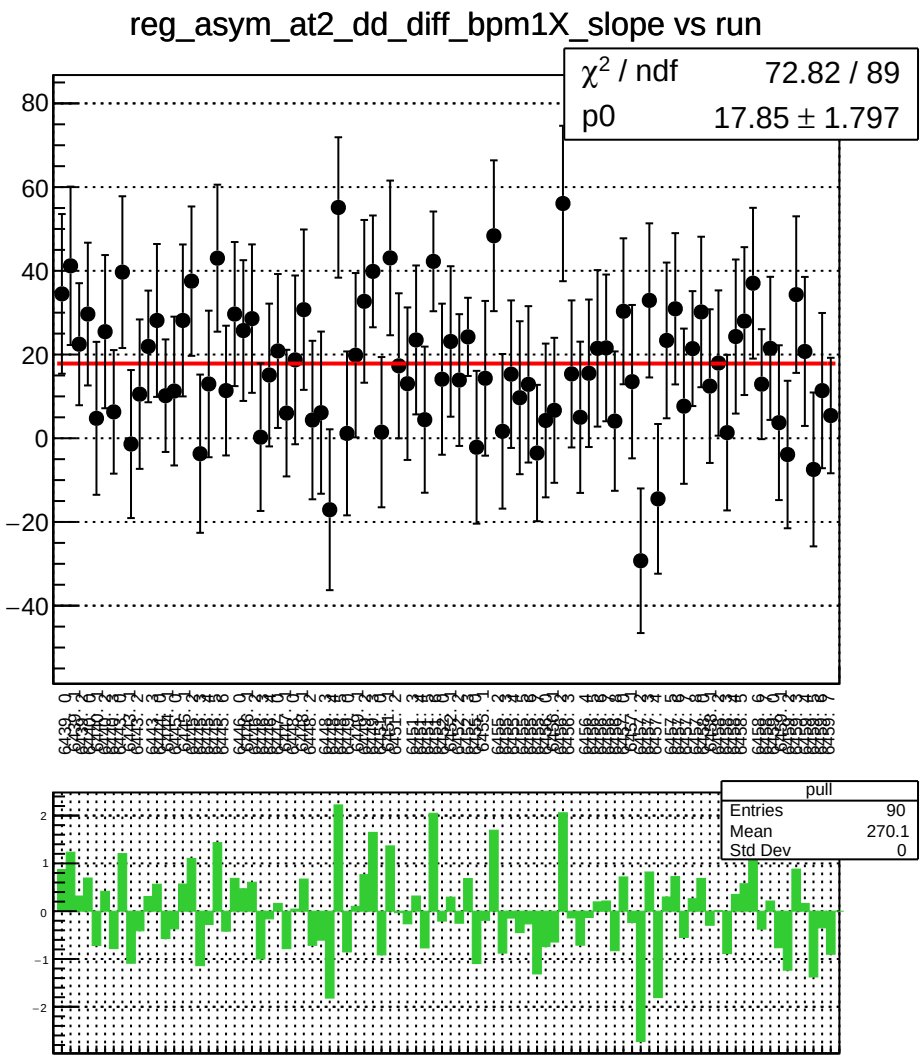

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 24.22 / 89
p0 17.05 ± 8.642
200
100
0
−100
−200
pull
Entries 90
Mean −110.3
Std Dev 0
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
−3.5

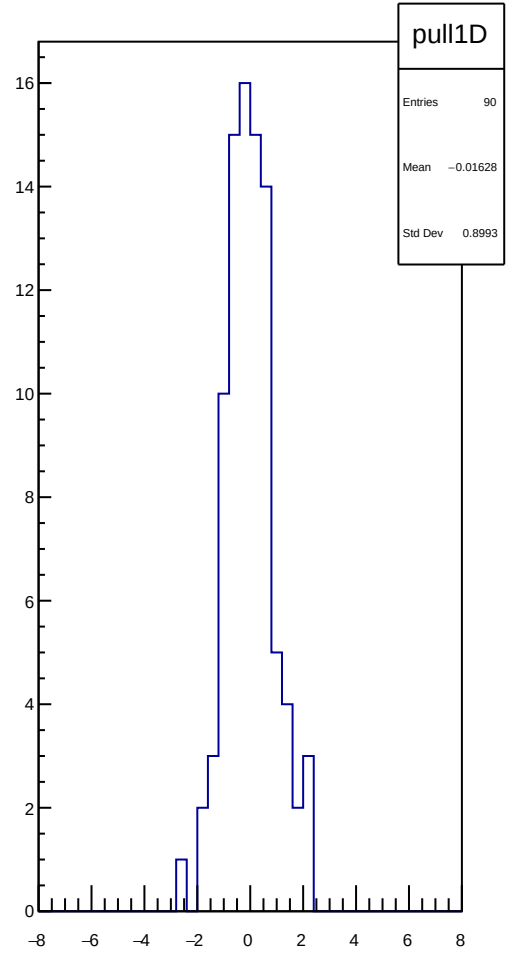

pull1D
Entries 90
Mean 0.02386
Std Dev 0.5183
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

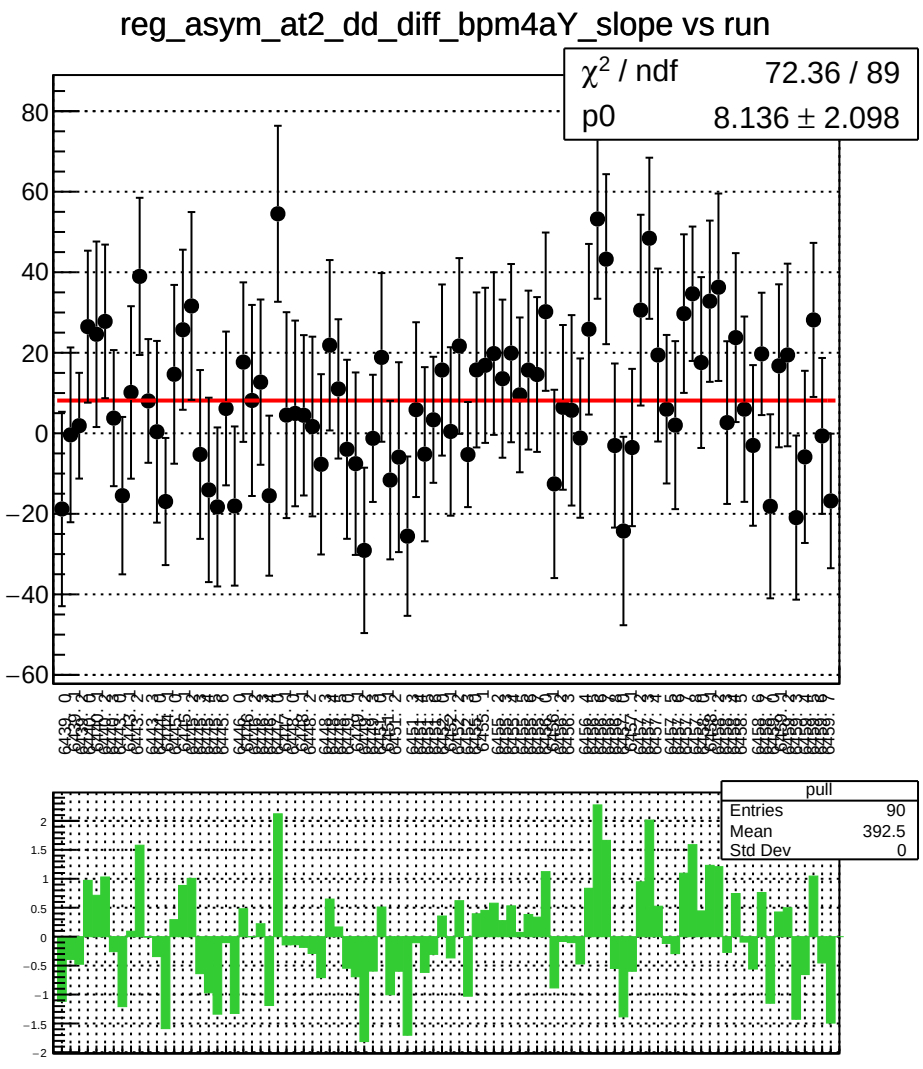

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 62.53 / 89
p0 660.9 ± 7.497
pull
Entries 90
Mean 417.7
Std Dev 0
pull1D
Entries 90
Mean 0.03428
Std Dev 0.8328

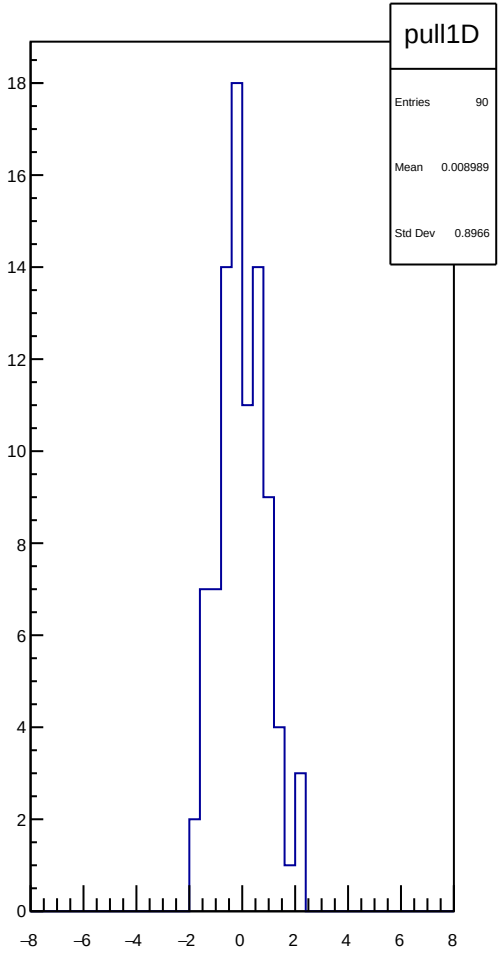

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 35.97 / 89
p0 180.4 ± 8.659
pull
Entries 90
Mean −230
Std Dev 0
pull1D
Entries 90
Mean −0.02727
Std Dev 0.6316

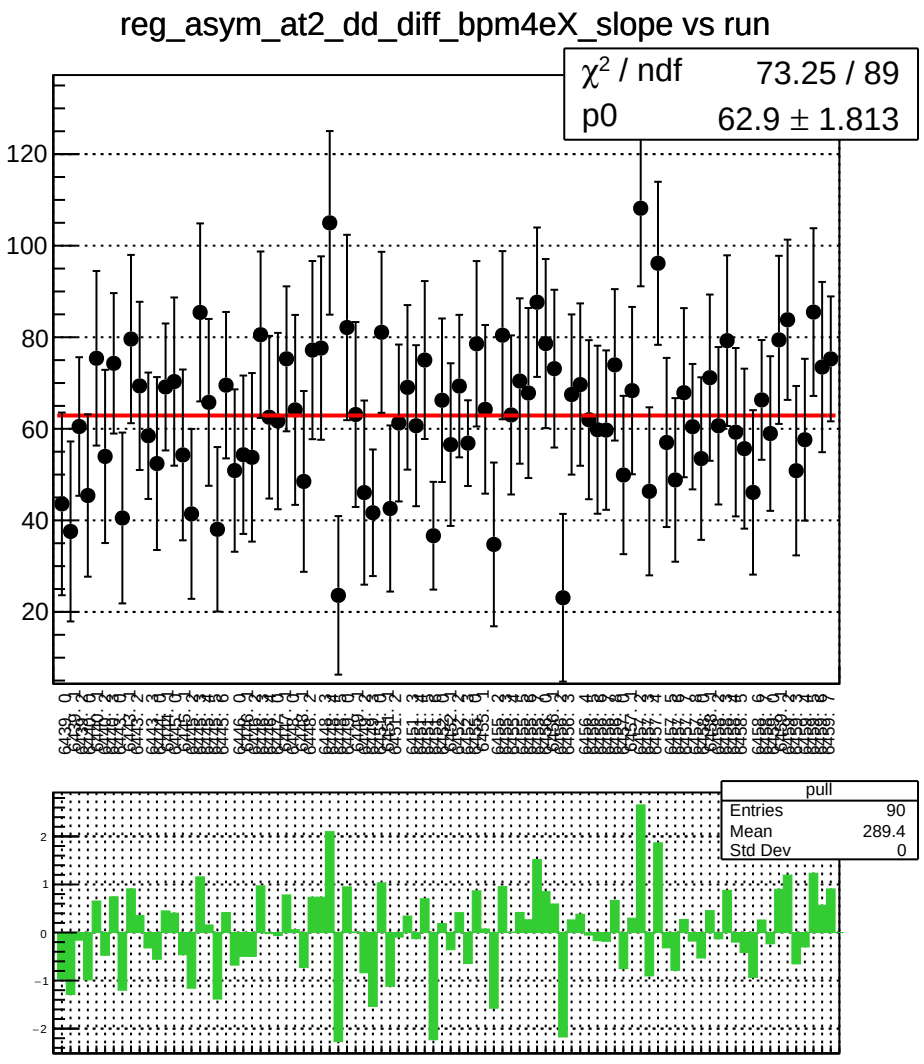

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 49.06 / 89
p0 −287.1 ± 0.3523
pull
Entries 90
Mean −591.2
Std Dev 0
pull1D
Entries 90
Mean 0.005928
Std Dev 0.7383

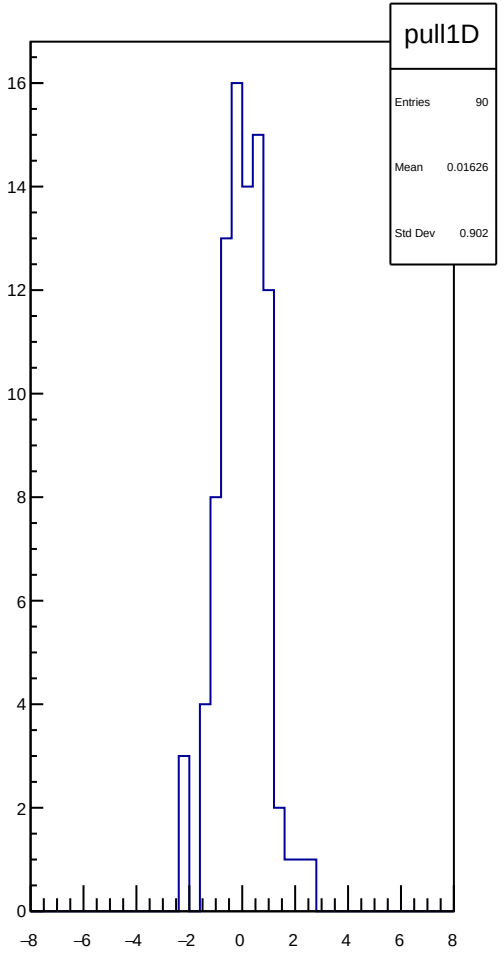

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 72.82 / 89
p0 17.85 ± 1.797
pull
Entries 90
Mean 270.1
Std Dev 0

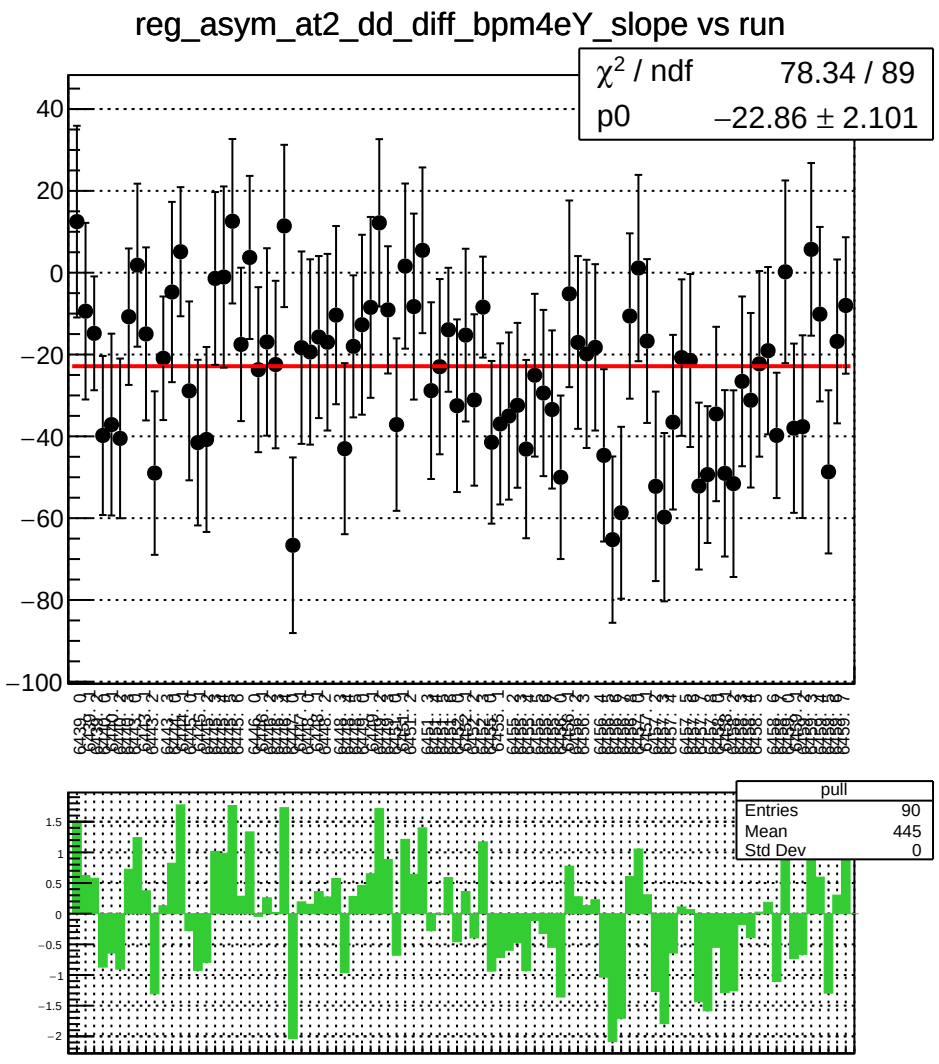

pull1D
Entries 90
Mean −0.01628
Std Dev 0.8993

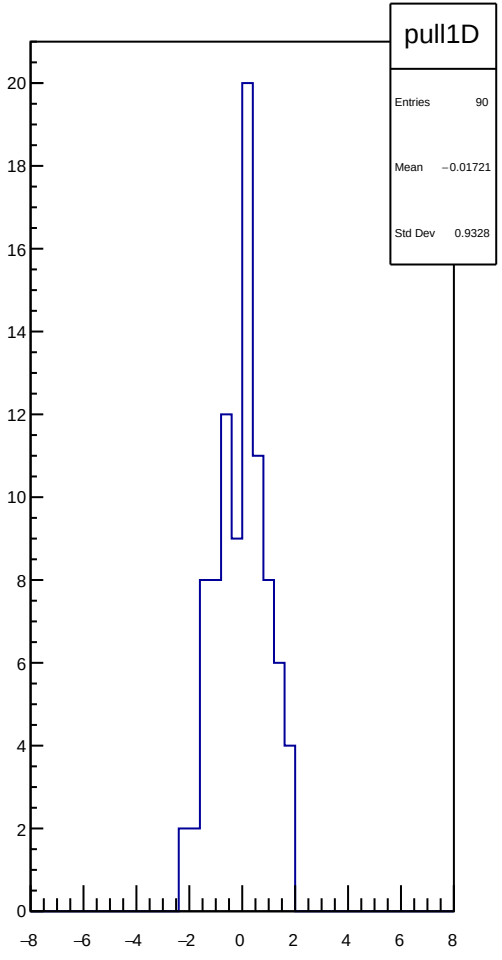

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 72.36 / 89
p0 8.136 ± 2.098
pull
Entries 90
Mean 392.5
Std Dev 0

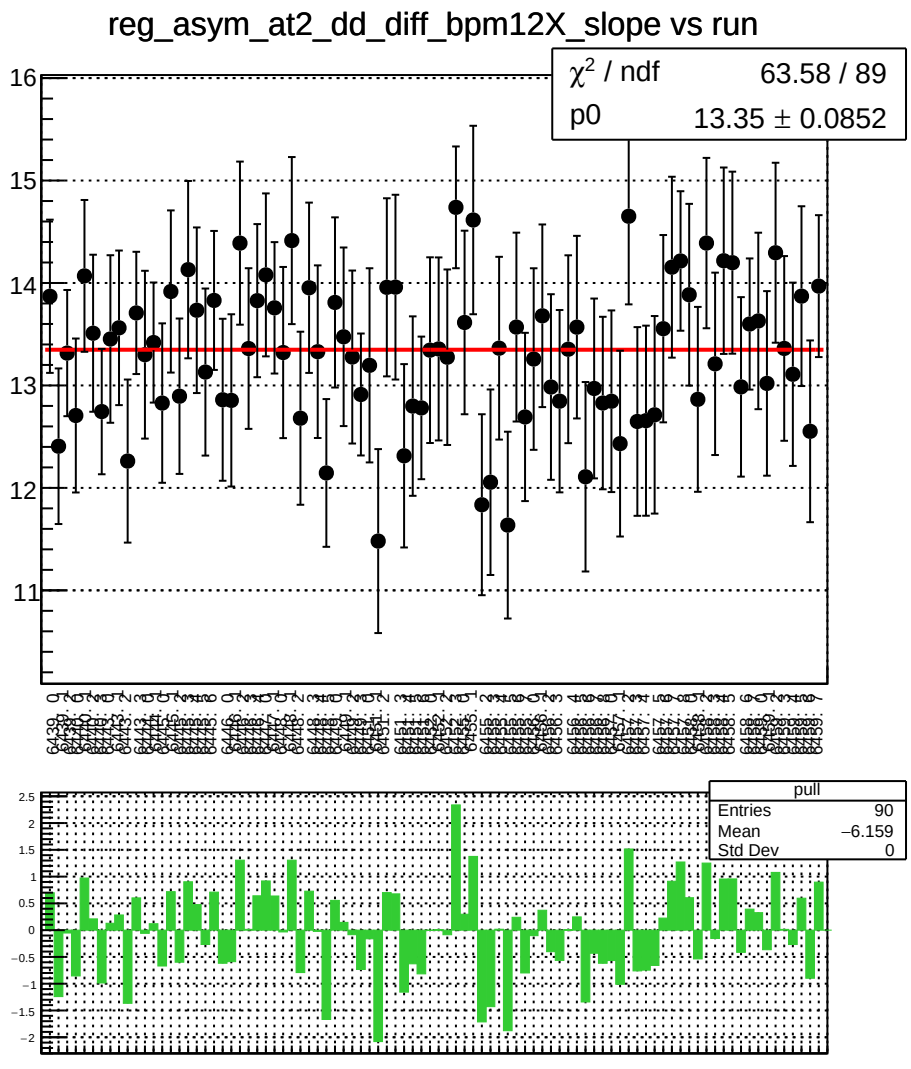

pull1D
Entries 90
Mean 0.008989
Std Dev 0.8966

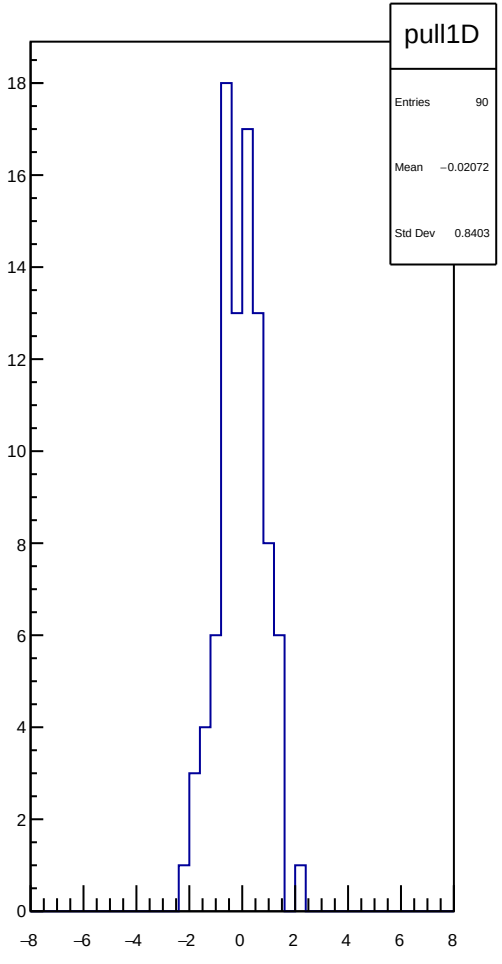

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 73.25 / 89
p0 62.9 ± 1.813
pull
Entries 90
Mean 289.4
Std Dev 0

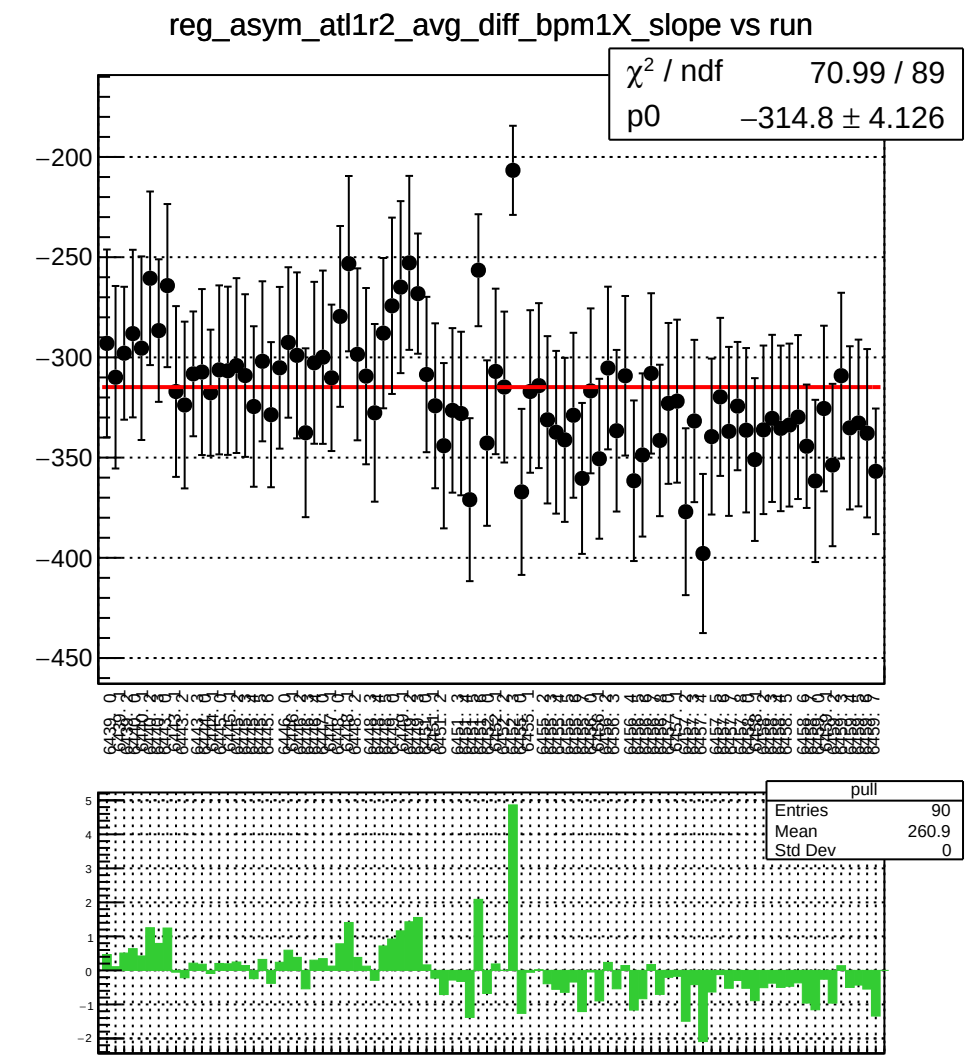

pull1D
Entries 90
Mean 0.01626
Std Dev 0.902

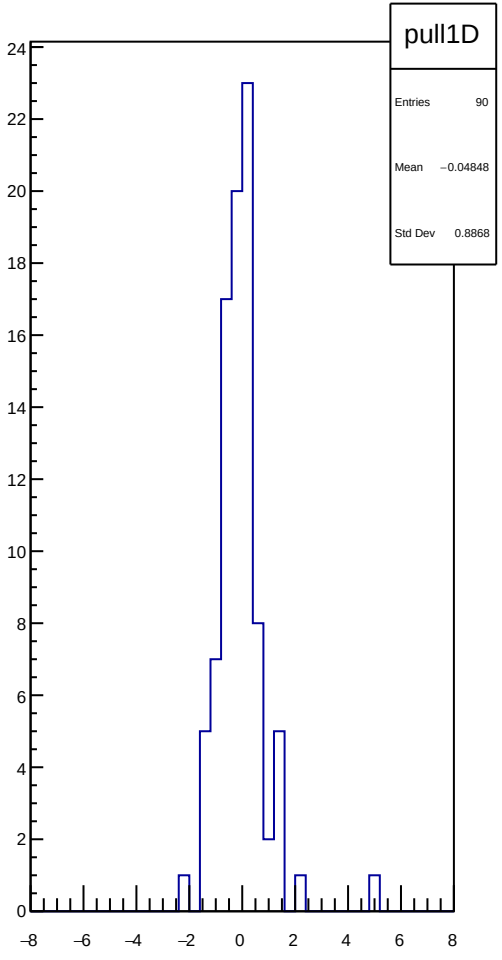

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 78.34 / 89
p0 −22.86 ± 2.101
pull
Entries 90
Mean 445
Std Dev 0

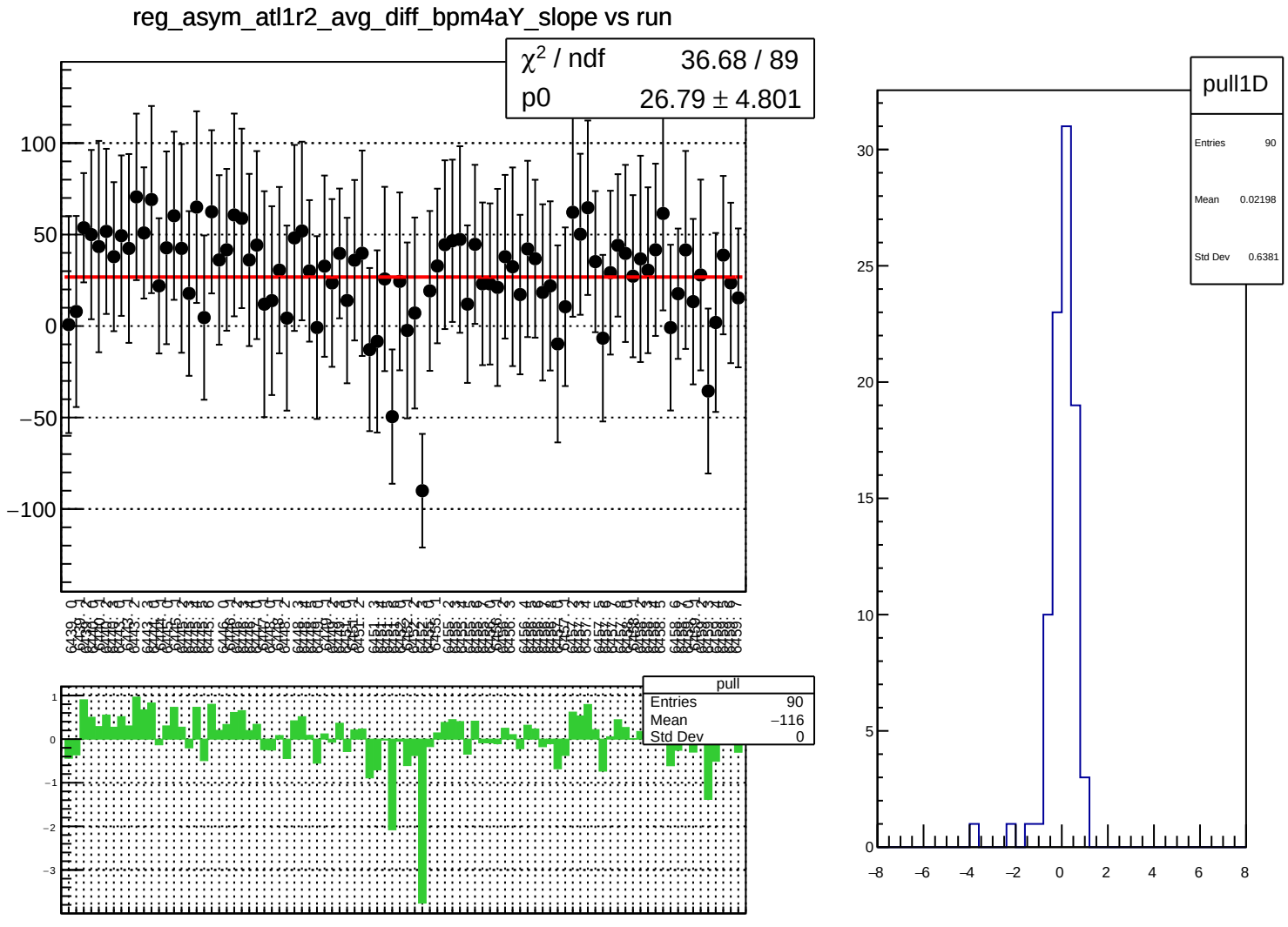

pull1D
Entries 90
Mean −0.01721
Std Dev 0.9328

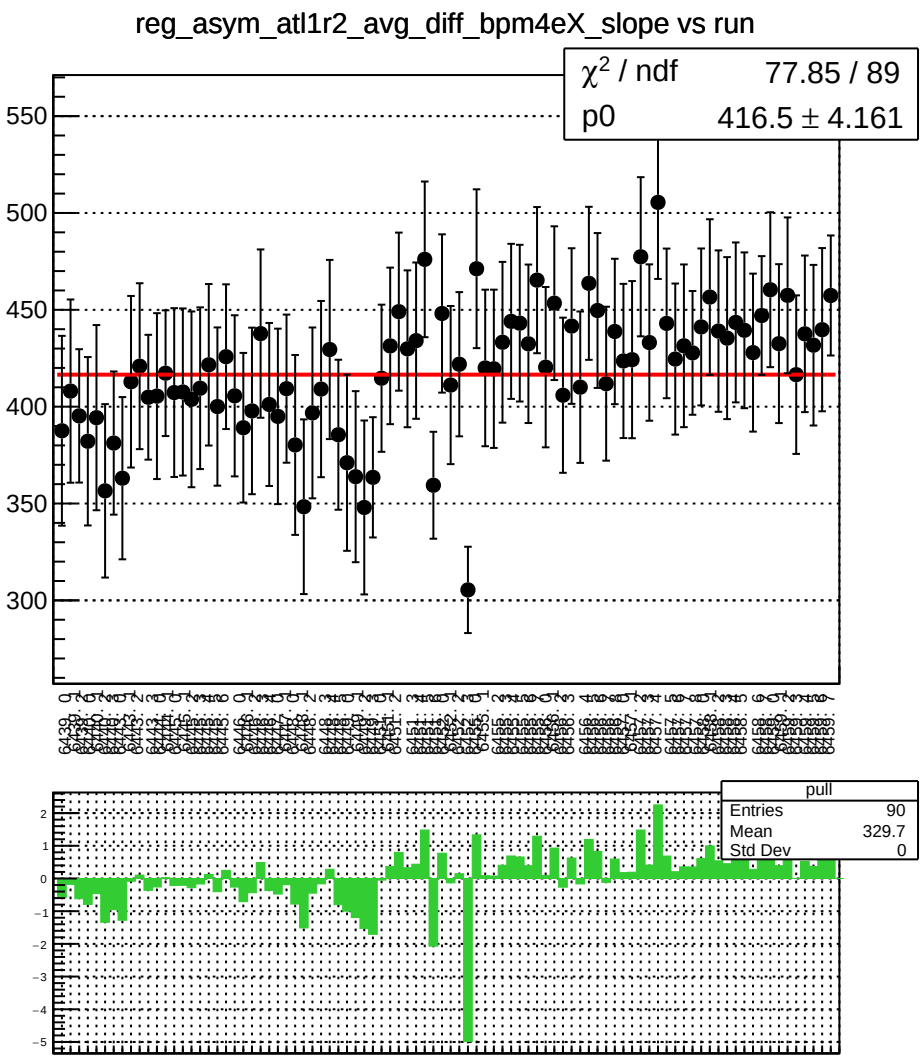

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 63.58 / 89
p0 13.35 ± 0.0852
pull
Entries 90
Mean −6.159
Std Dev 0

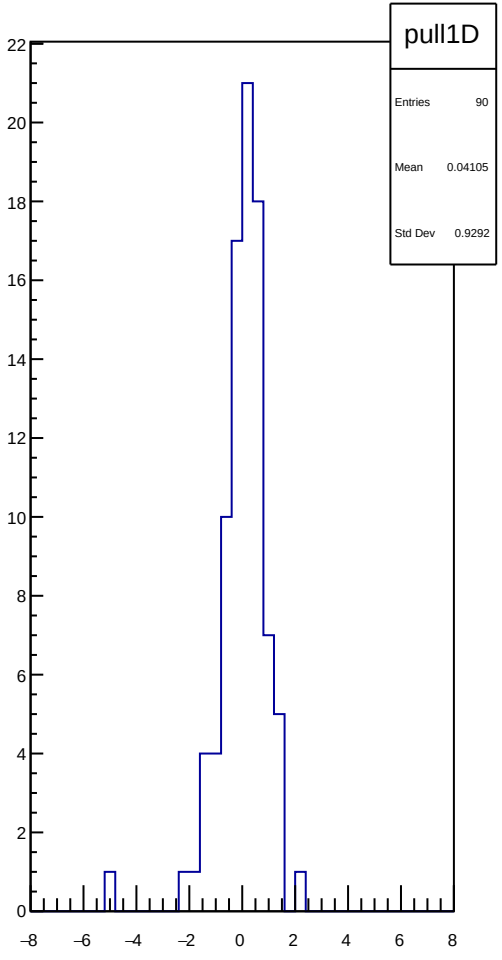

pull1D
Entries 90
Mean −0.02072
Std Dev 0.8403

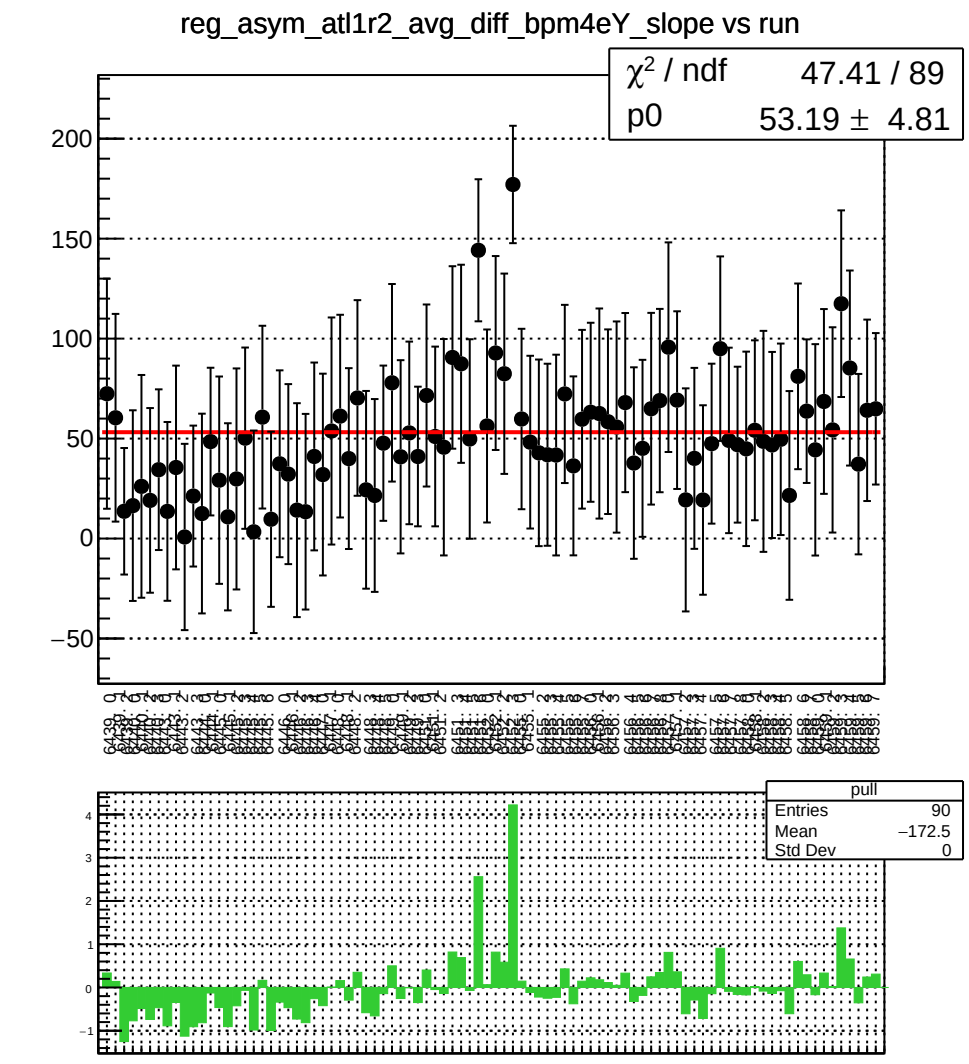

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 70.99 / 89
p0 −314.8 ± 4.126
pull
Entries 90
Mean 260.9
Std Dev 0

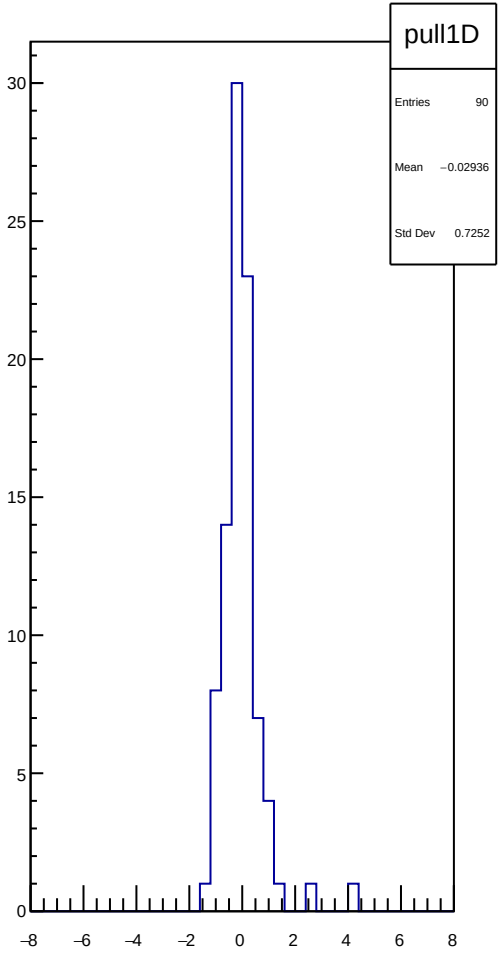

pull1D
Entries 90
Mean −0.04848
Std Dev 0.8868

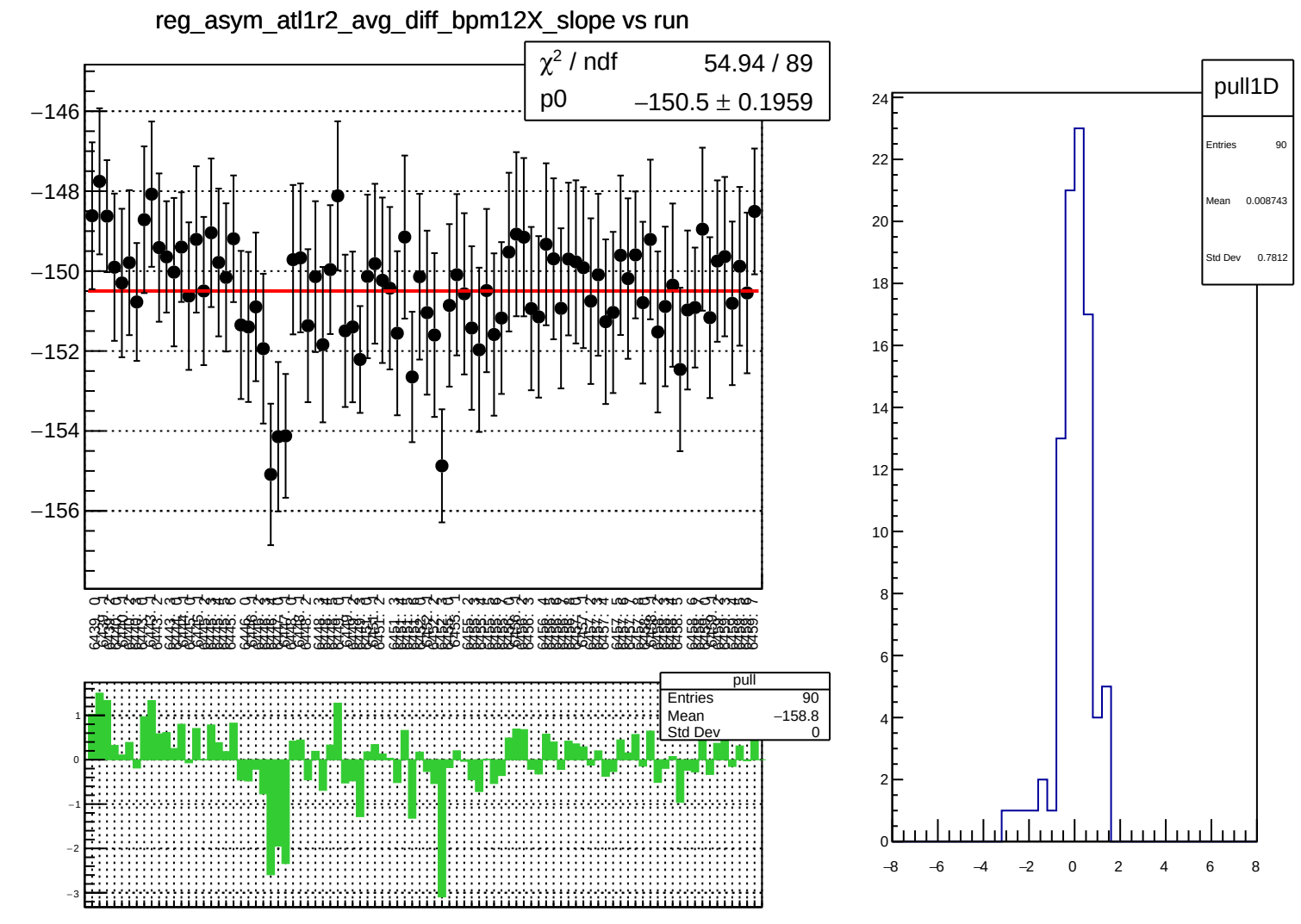

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 36.68 / 89
p0 26.79 ± 4.801
100
50
0
−50
−100
pull
Entries 90
Mean −116
Std Dev 0
1
0
−1
−2
−3
pull1D
Entries 90
Mean 0.02198
Std Dev 0.6381
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

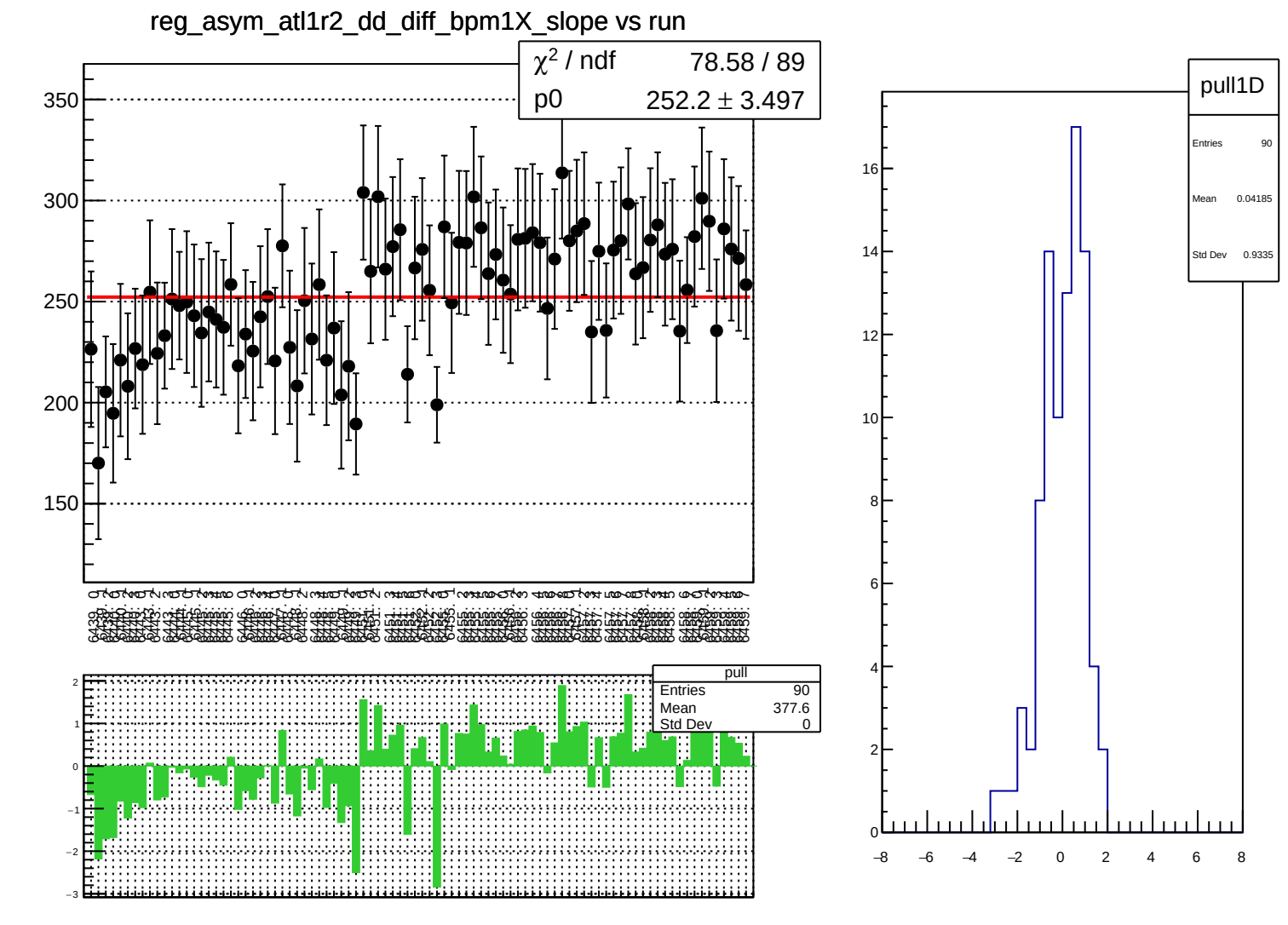

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 77.85 / 89
p0 416.5 ± 4.161
550
500
450
400
350
300
pull
Entries 90
Mean 329.7
Std Dev 0
2
1
0
−1
−2
−3
−4
−5

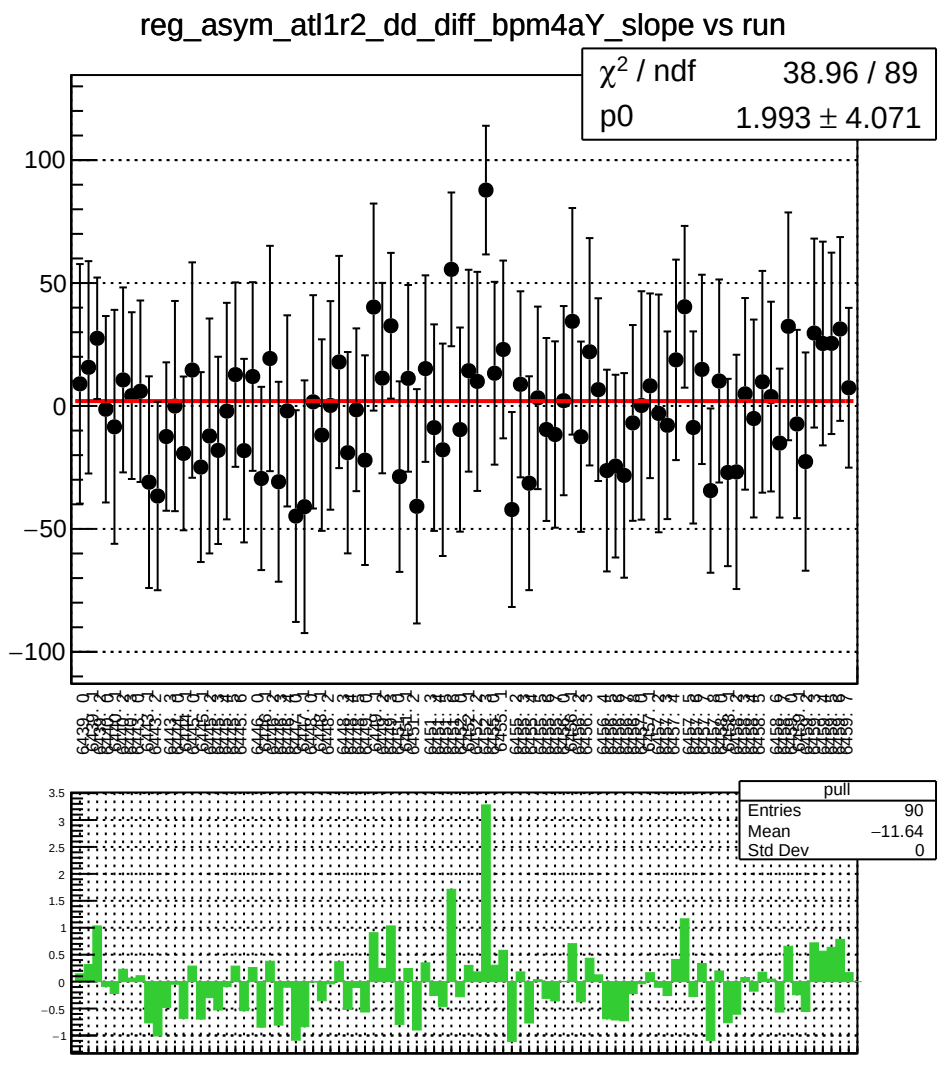

pull1D
Entries 90
Mean 0.04105
Std Dev 0.9292
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

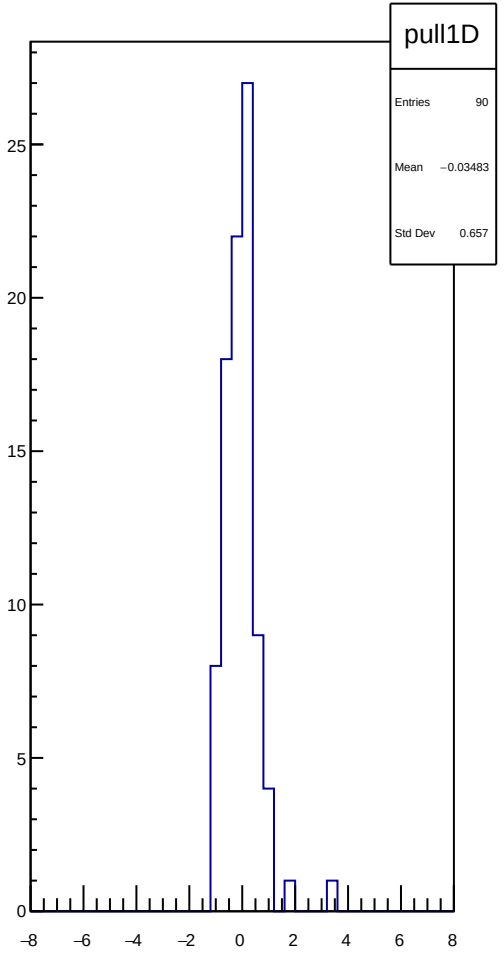

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 47.41 / 89
p0 53.19 ± 4.81
200
150
100
50
0
−50
pull
Entries 90
Mean −172.5
Std Dev 0
4
3
2
1
0
−1

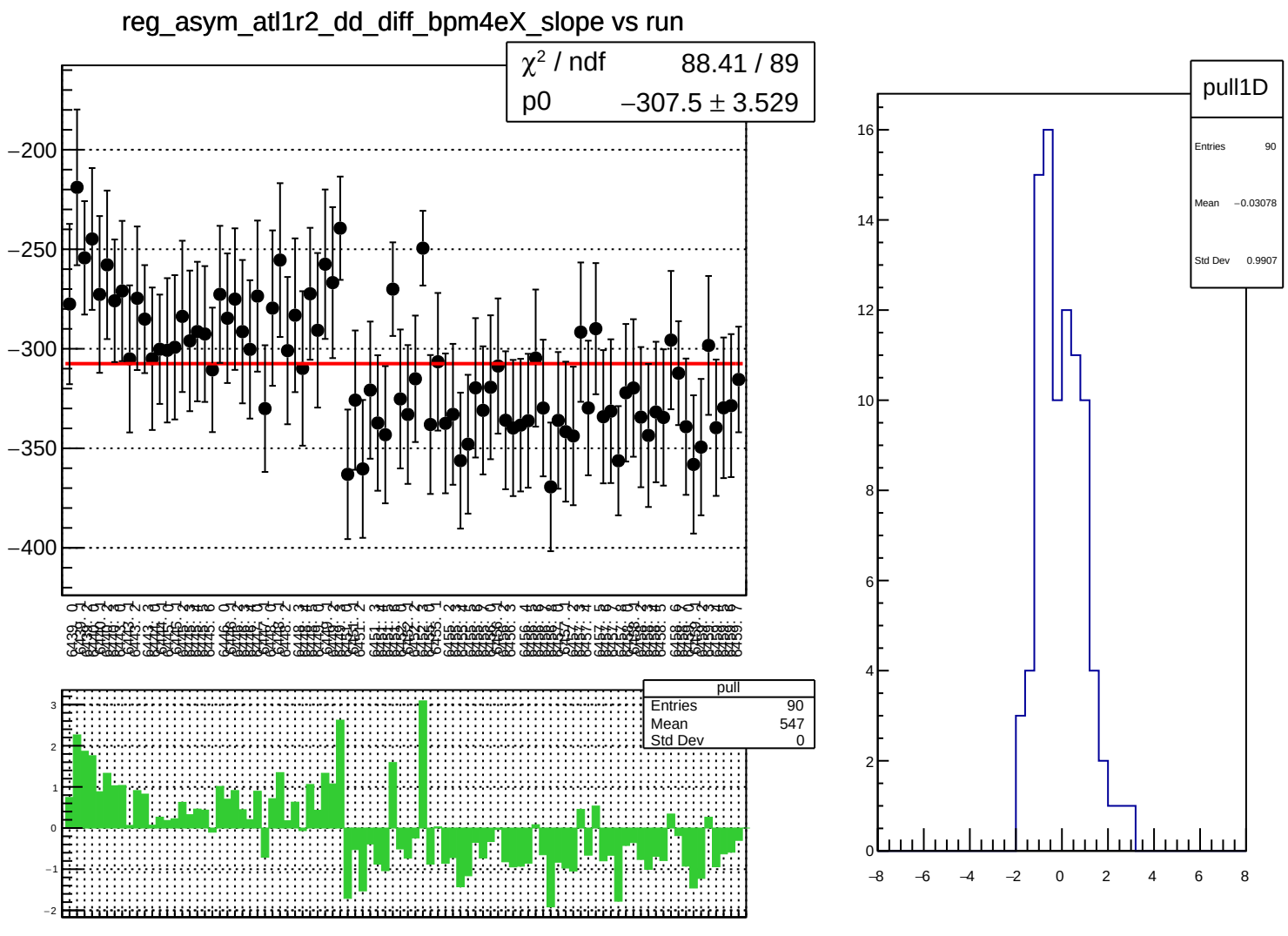

pull1D
Entries 90
Mean −0.02936
Std Dev 0.7252
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

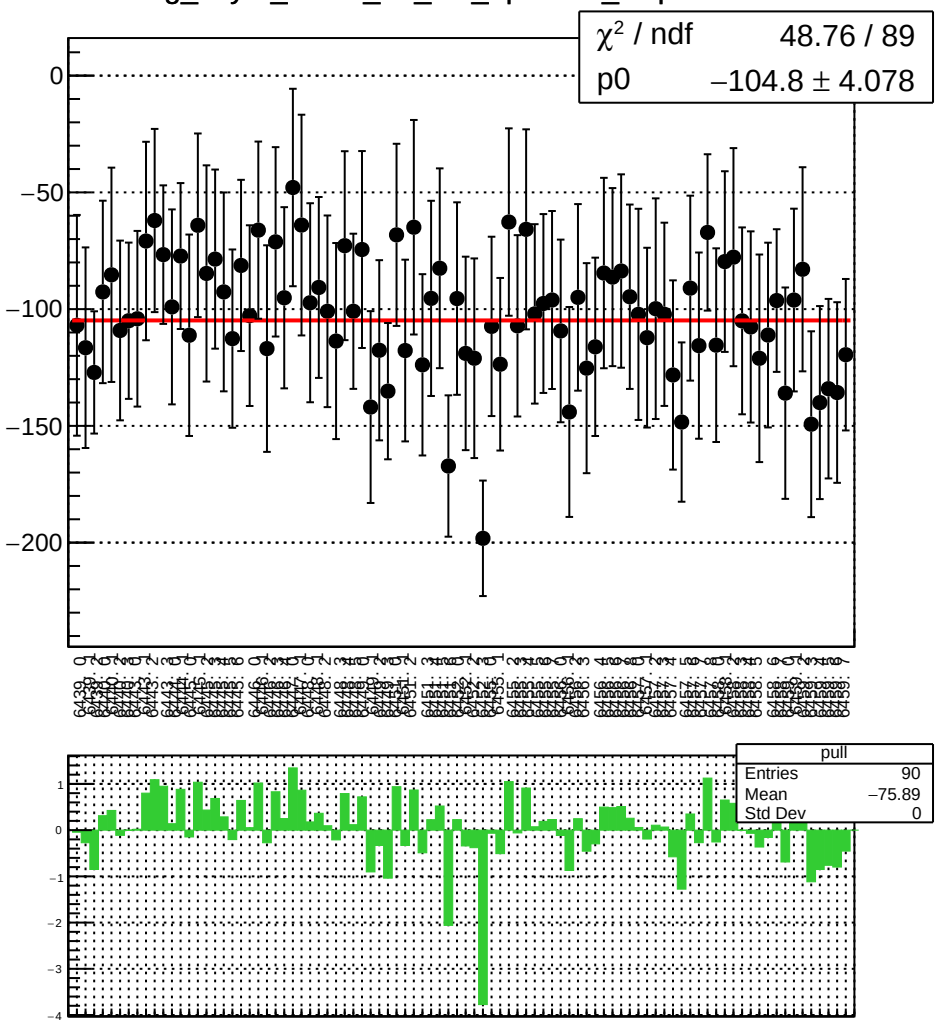

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 54.94 / 89
p0 −150.5 ± 0.1959
−146
−148
−150
−152
−154
−156
pull
Entries 90
Mean −158.8
Std Dev 0
1
0
−1
−2
−3
pull1D
Entries 90
Mean 0.008743
Std Dev 0.7812
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

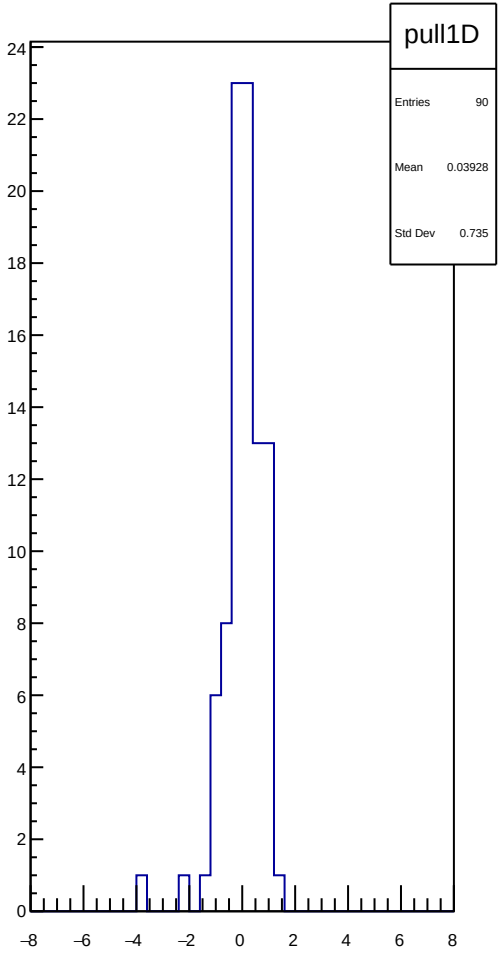

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 78.58 / 89
p0 252.2 ± 3.497
350
300
250
200
150
pull
Entries 90
Mean 377.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 90
Mean 0.04185
Std Dev 0.9335
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

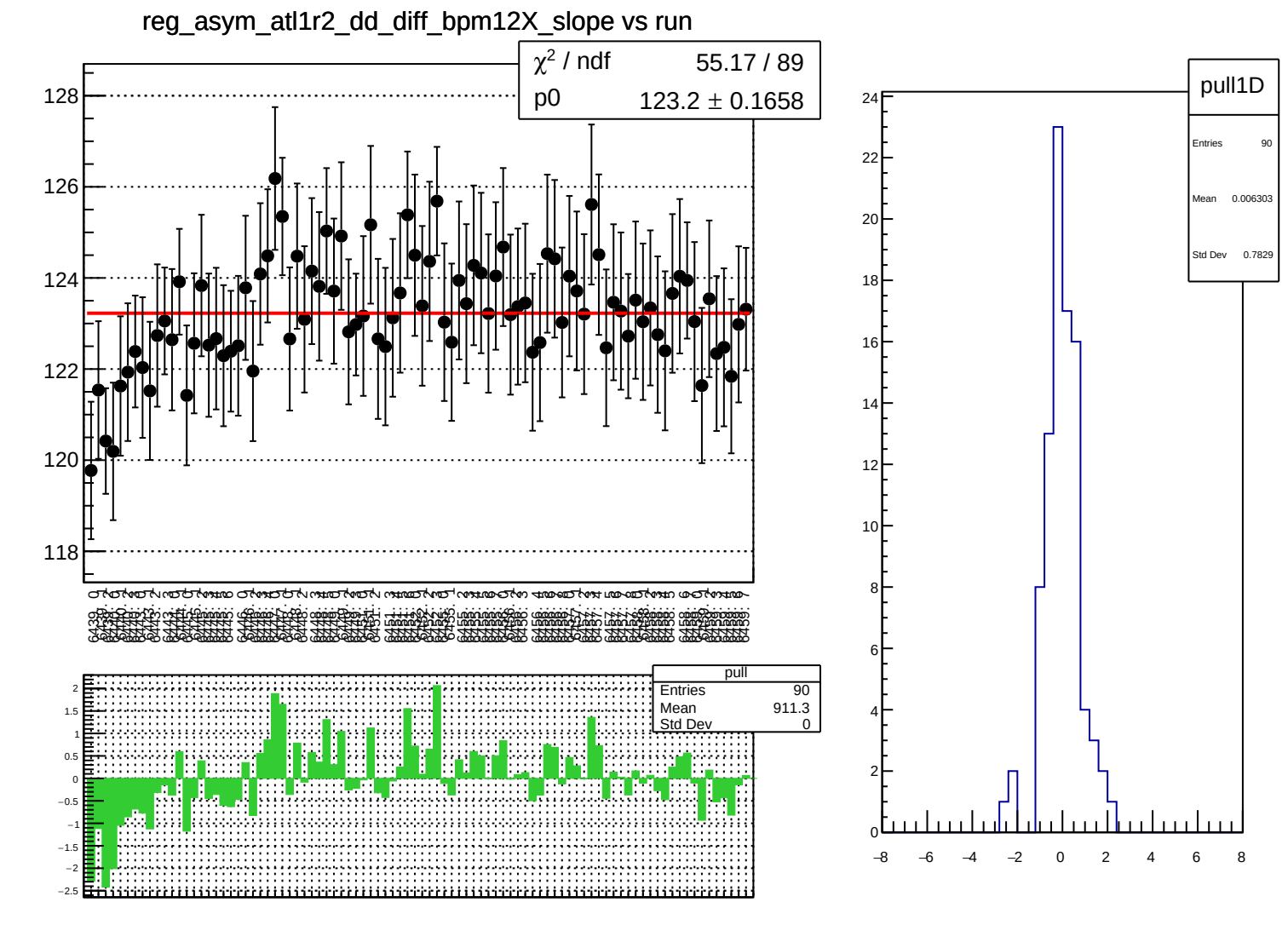

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 38.96 / 89
p0 1.993 ± 4.071
100
50
0
−50
−100
pull
Entries 90
Mean −11.64
Std Dev 0
3.5
3
2.5
2
1.5
1
0.5
0
−0.5
−1

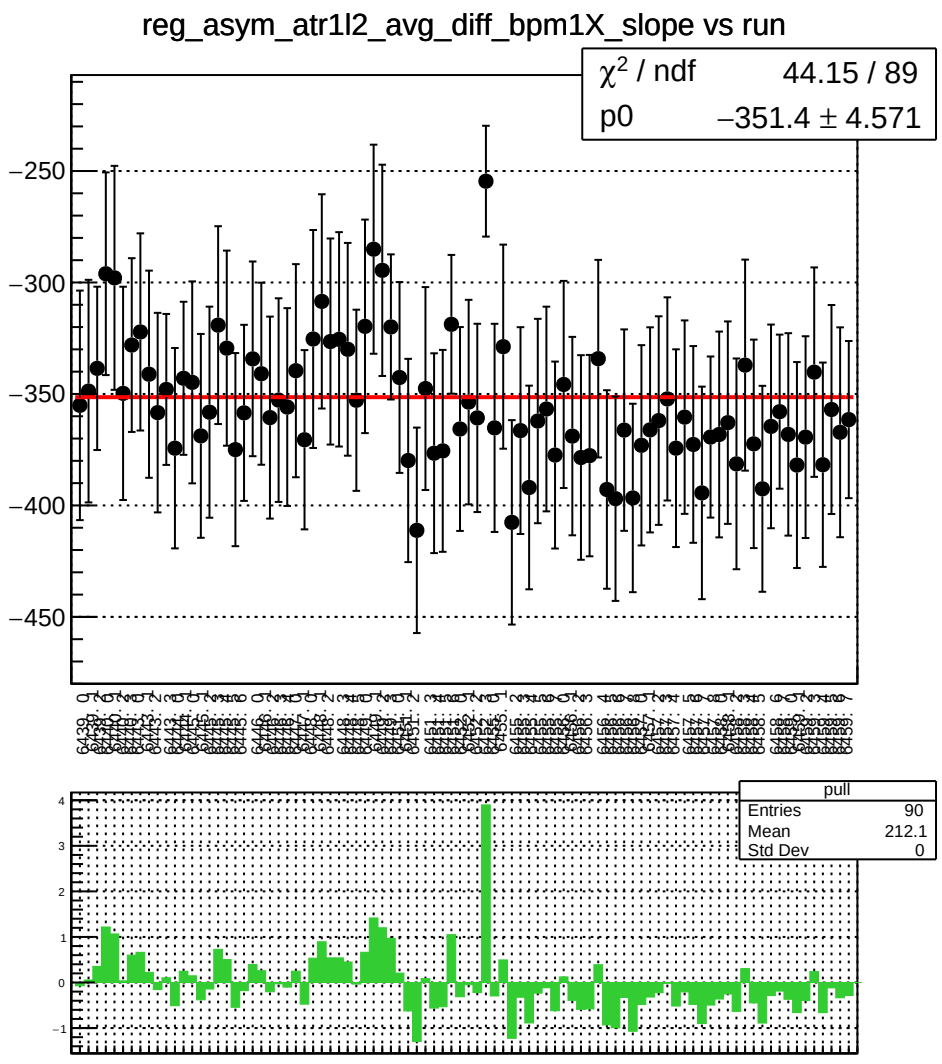

pull1D
Entries 90
Mean −0.03483
Std Dev 0.657
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

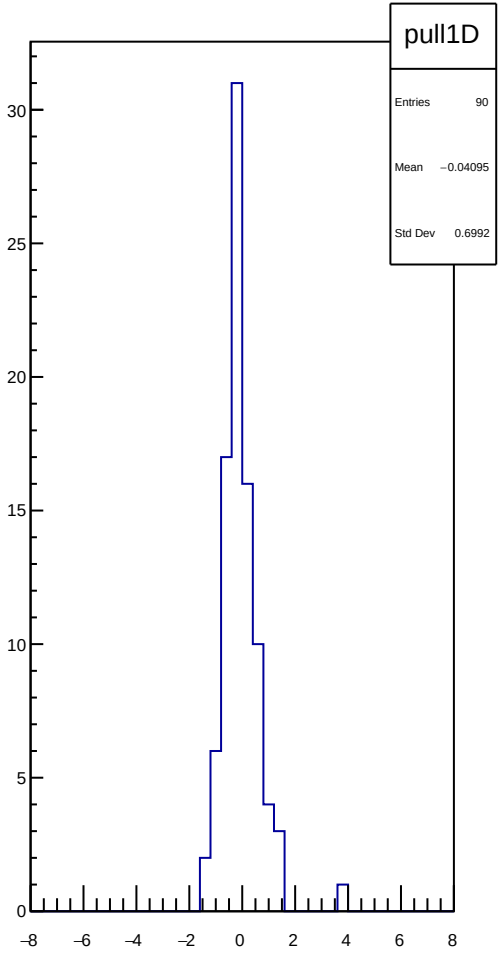

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 88.41 / 89
p0 −307.5 ± 3.529
−200
−250
−300
−350
−400
pull
Entries 90
Mean 547
Std Dev 0
pull1D
Entries 90
Mean −0.03078
Std Dev 0.9907

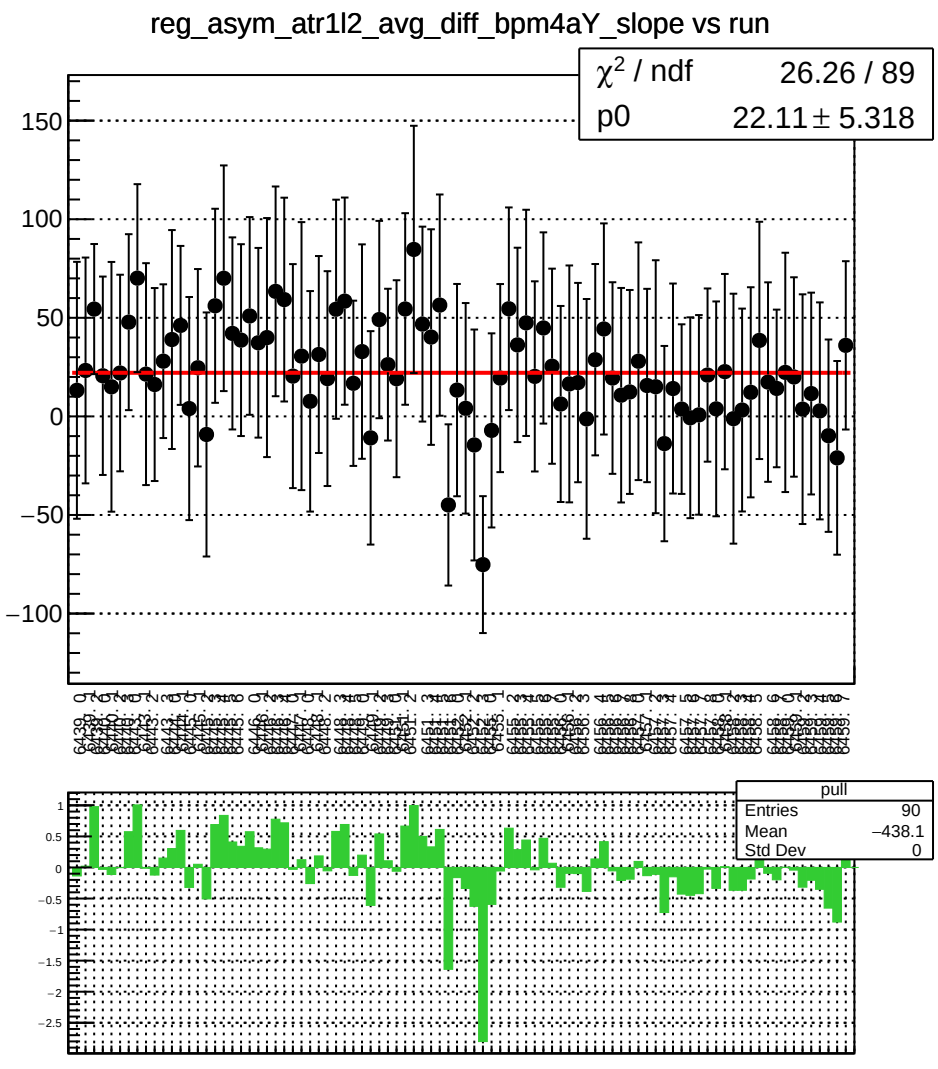

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 48.76 / 89
p0 −104.8 ± 4.078
pull
Entries 90
Mean −75.89
Std Dev 0

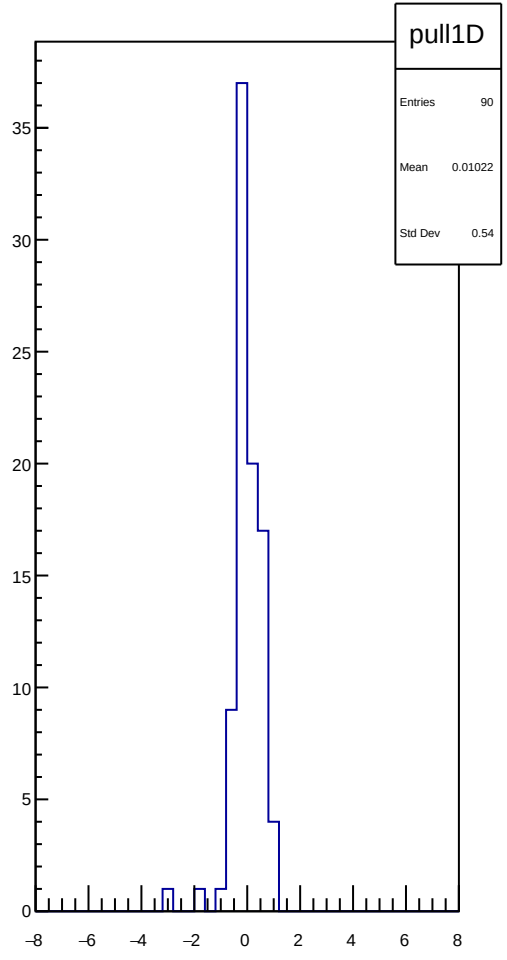

pull1D
Entries 90
Mean 0.03928
Std Dev 0.735

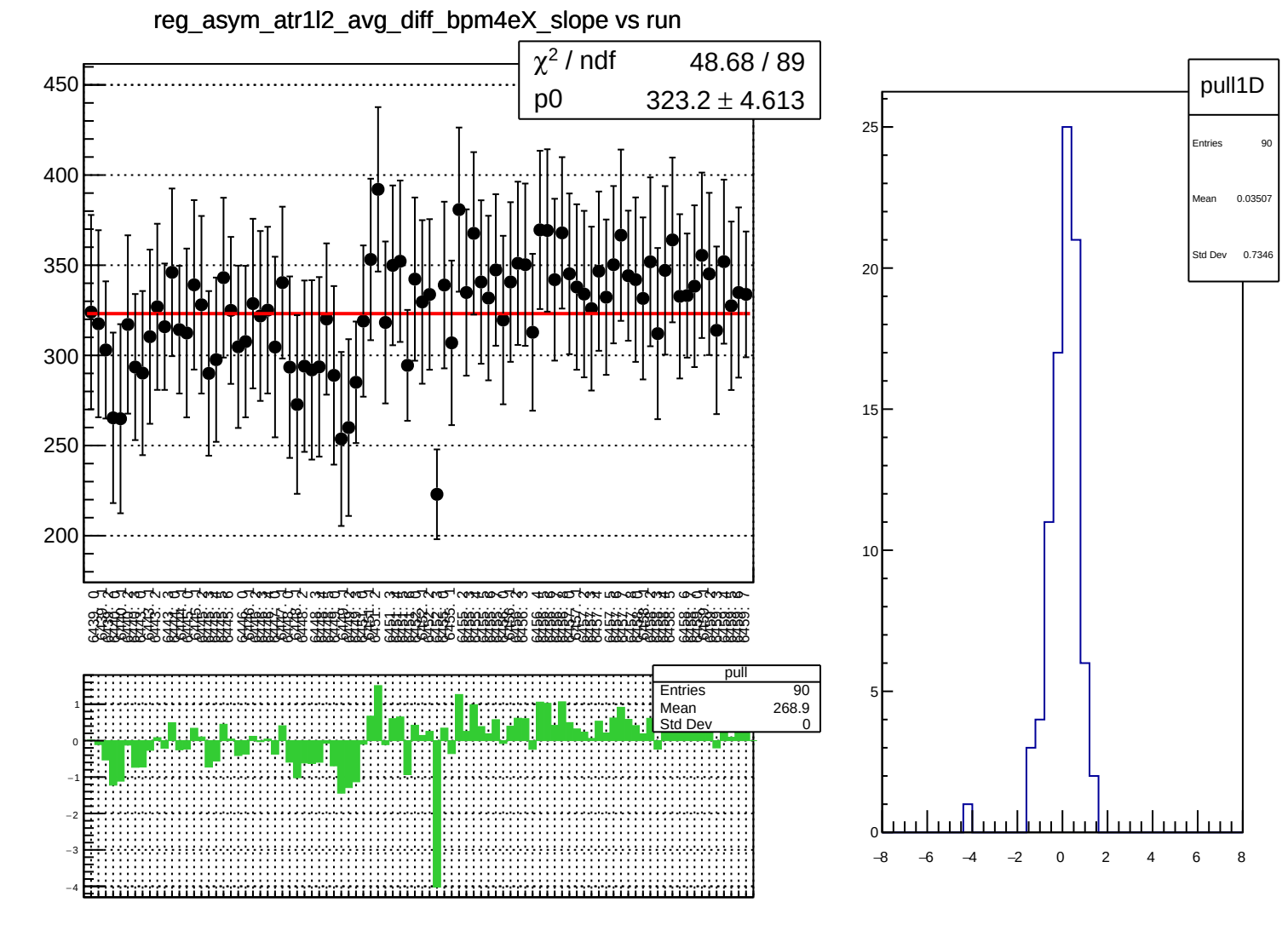

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 55.17 / 89
p0 123.2 ± 0.1658
128
126
124
122
120
118
pull
Entries 90
Mean 911.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 90
Mean 0.006303
Std Dev 0.7829
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

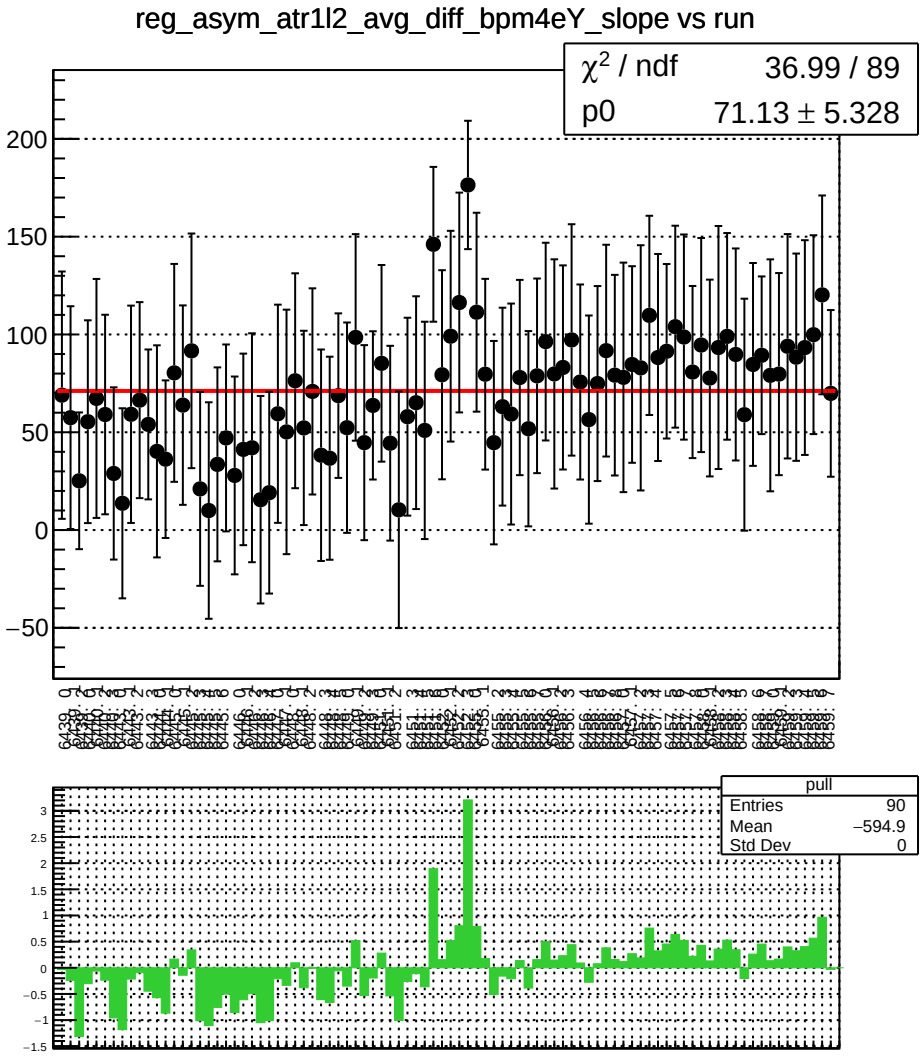

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 44.15 / 89
p0 −351.4 ± 4.571
−250
−300
−350
−400
−450
pull
Entries 90
Mean 212.1
Std Dev 0
4
3
2
1
0
−1

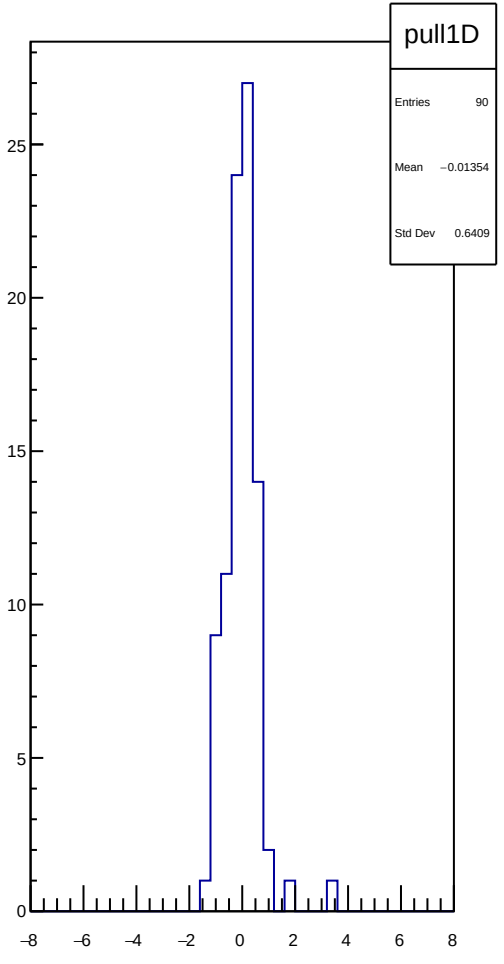

pull1D
Entries 90
Mean −0.04095
Std Dev 0.6992
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

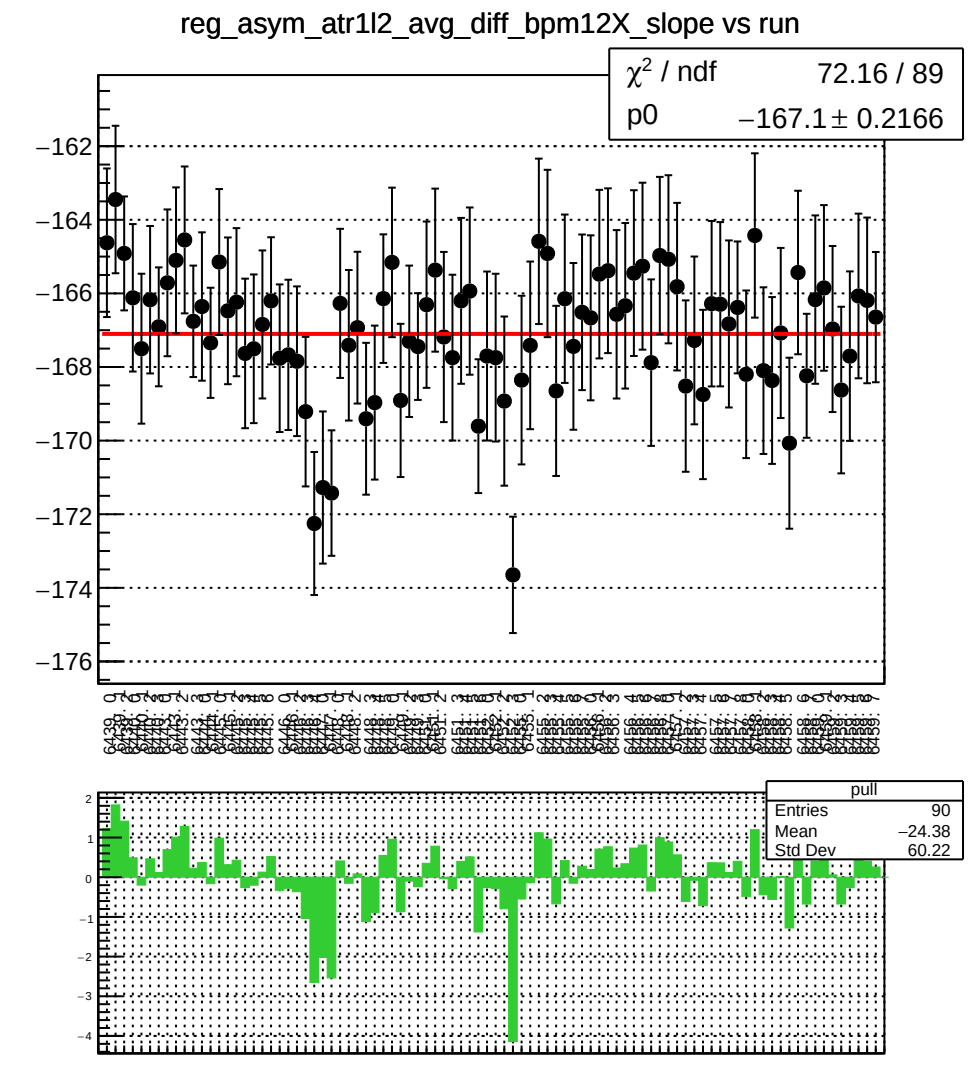

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 26.26 / 89
p0 22.11 ± 5.318
150
100
50
0
−50
−100
pull
Entries 90
Mean −438.1
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

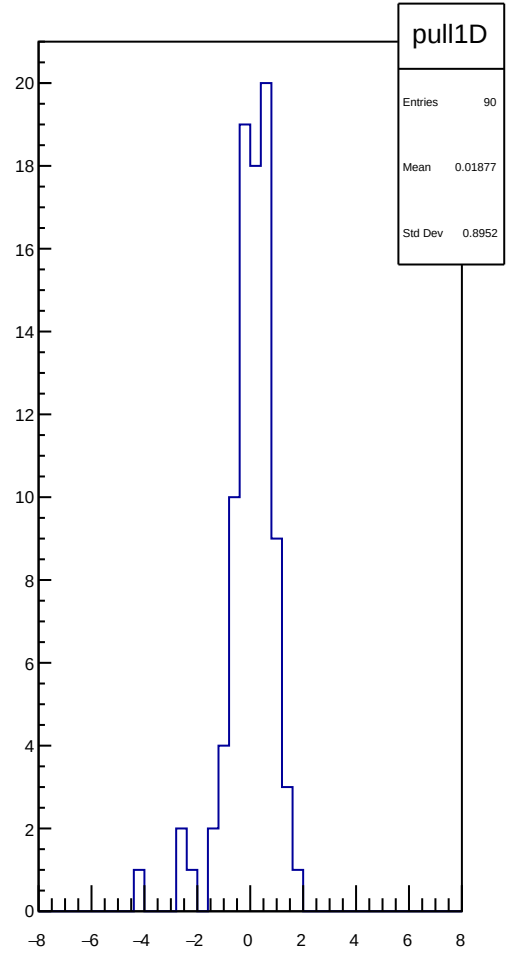

pull1D
Entries 90
Mean 0.01022
Std Dev 0.54
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

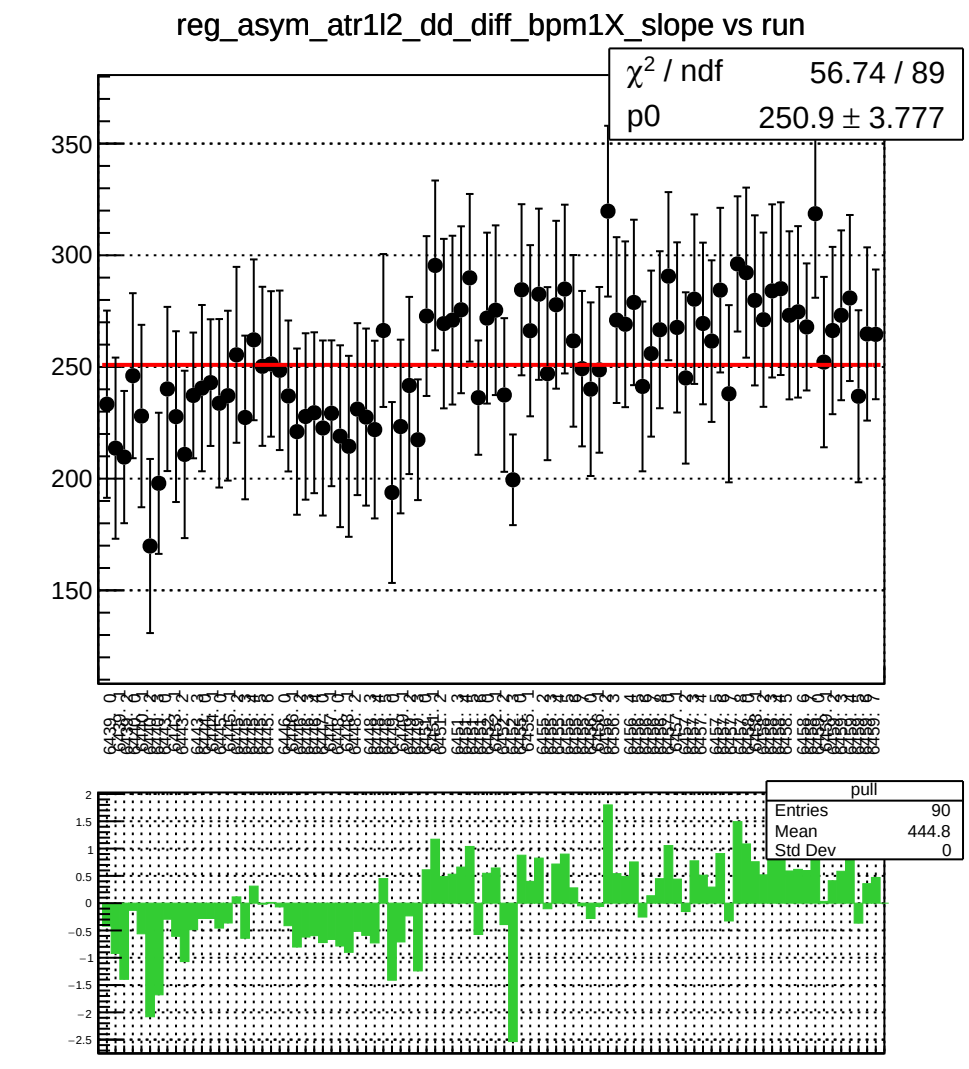

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 48.68 / 89
p0 323.2 ± 4.613
pull
Entries 90
Mean 268.9
Std Dev 0
pull1D
Entries 90
Mean 0.03507
Std Dev 0.7346

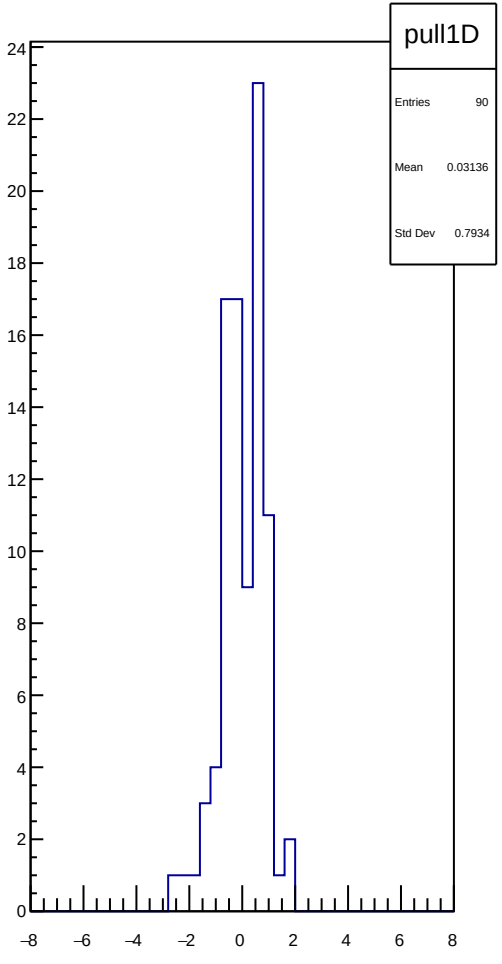

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 36.99 / 89
p0 71.13 ± 5.328
200
150
100
50
0
−50
pull
Entries 90
Mean −594.9
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

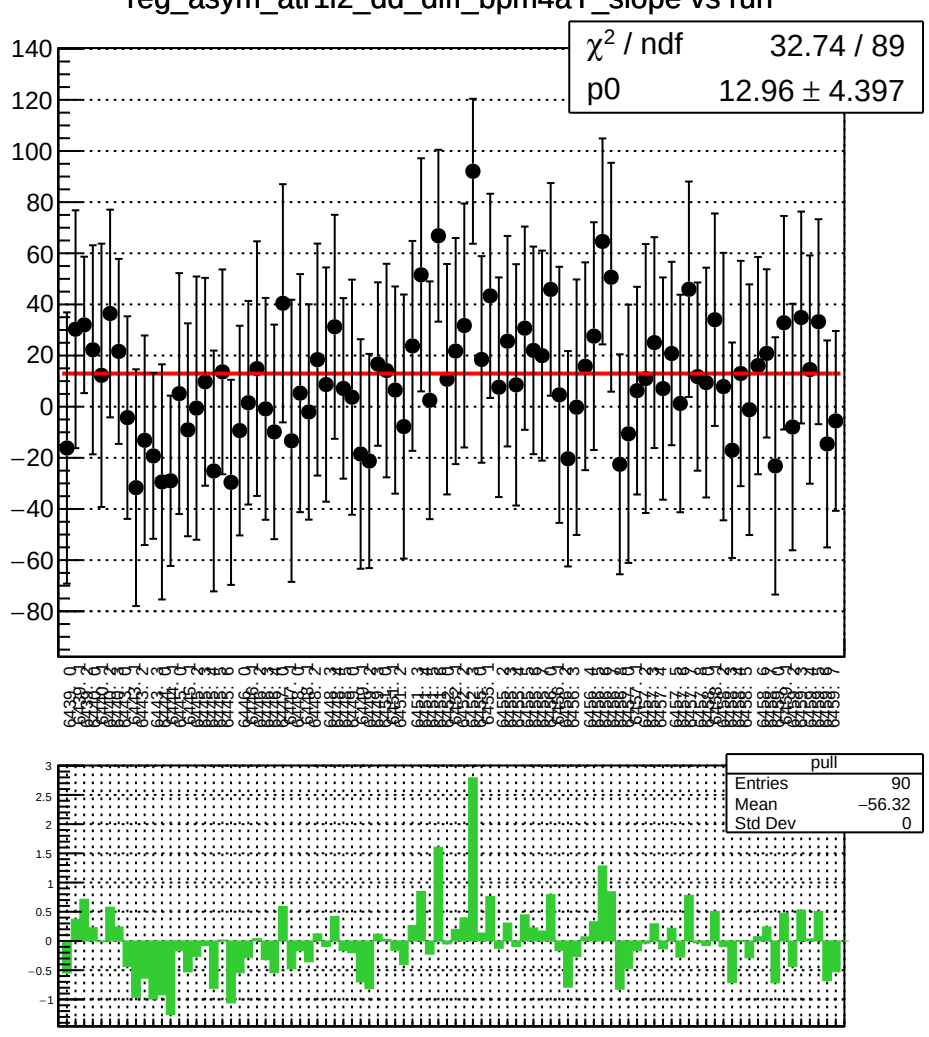

pull1D
Entries 90
Mean −0.01354
Std Dev 0.6409
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

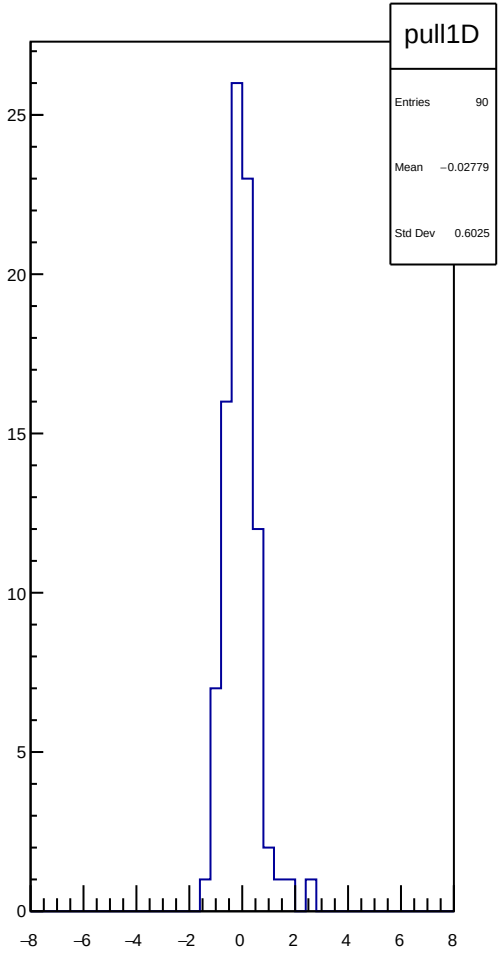

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 72.16 / 89
p0 −167.1 ± 0.2166
−162
−164
−166
−168
−170
−172
−174
−176
pull
Entries 90
Mean −24.38
Std Dev 60.22
2
1
0
−1
−2
−3
−4

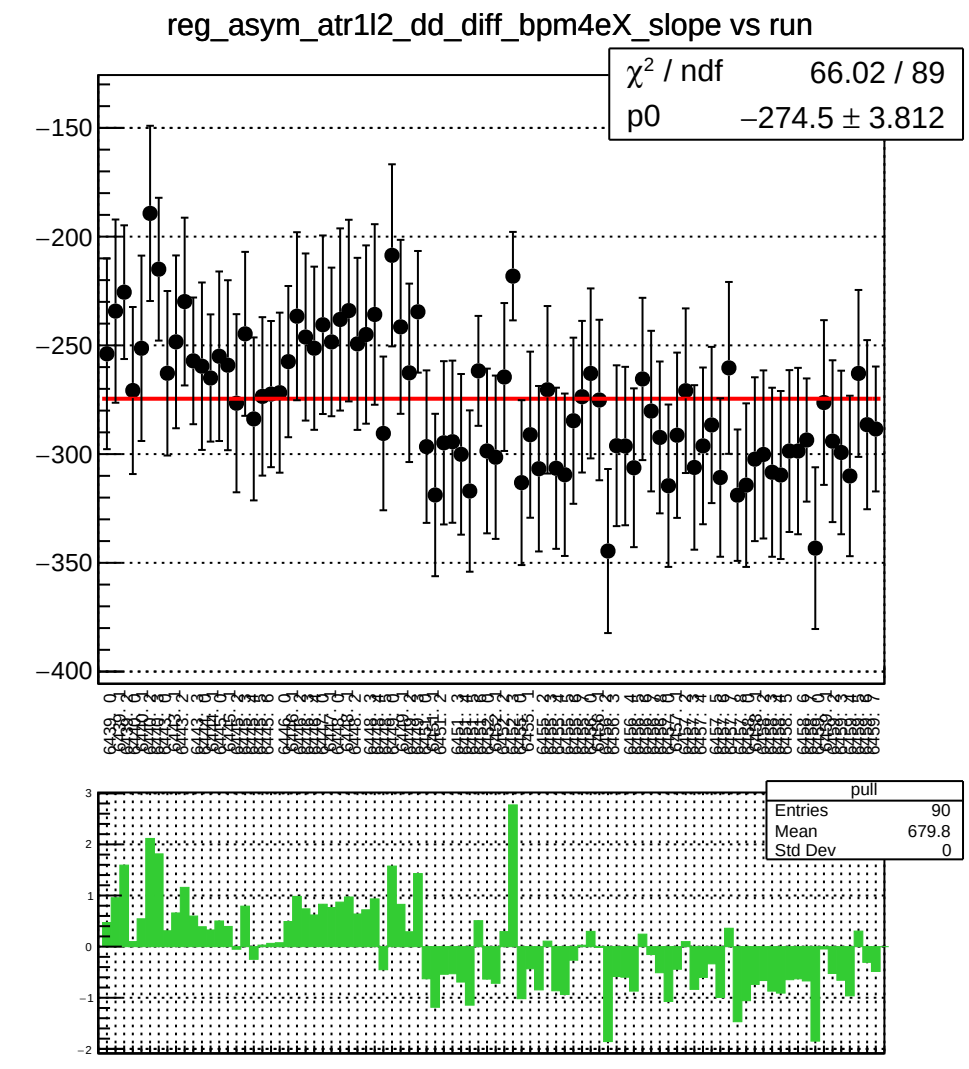

pull1D
Entries 90
Mean 0.01877
Std Dev 0.8952
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

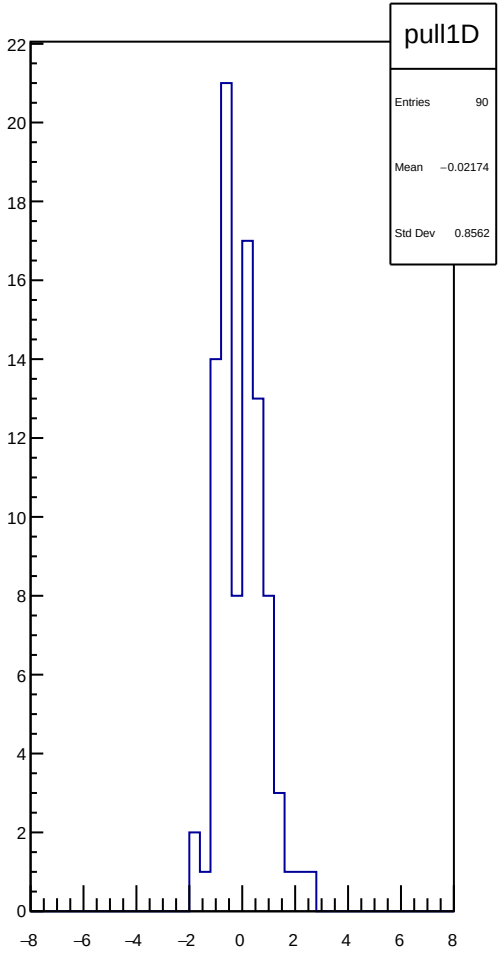

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 56.74 / 89
p0 250.9 ± 3.777
350
300
250
200
150
pull
Entries 90
Mean 444.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

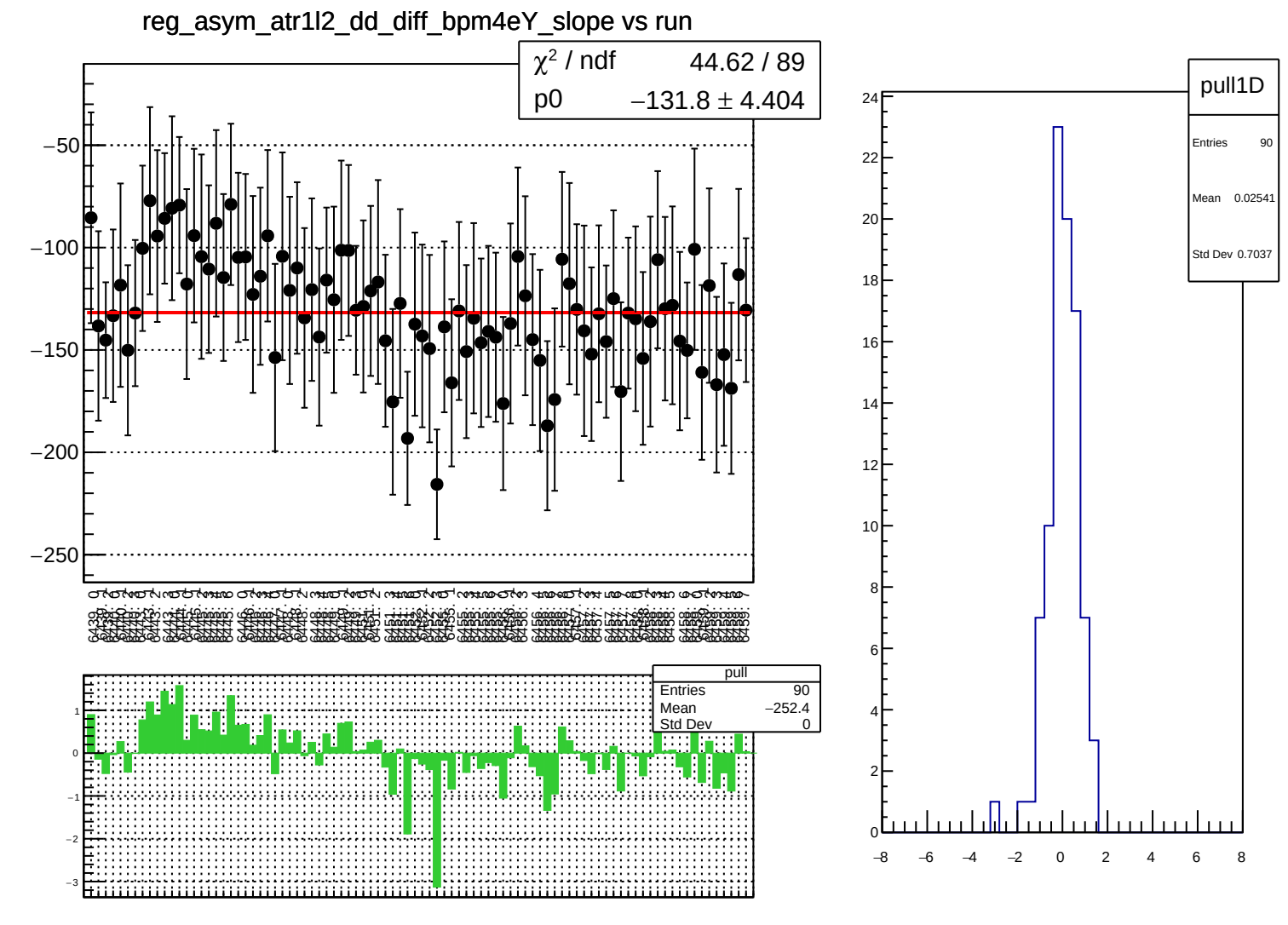

pull1D
Entries 90
Mean 0.03136
Std Dev 0.7934
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

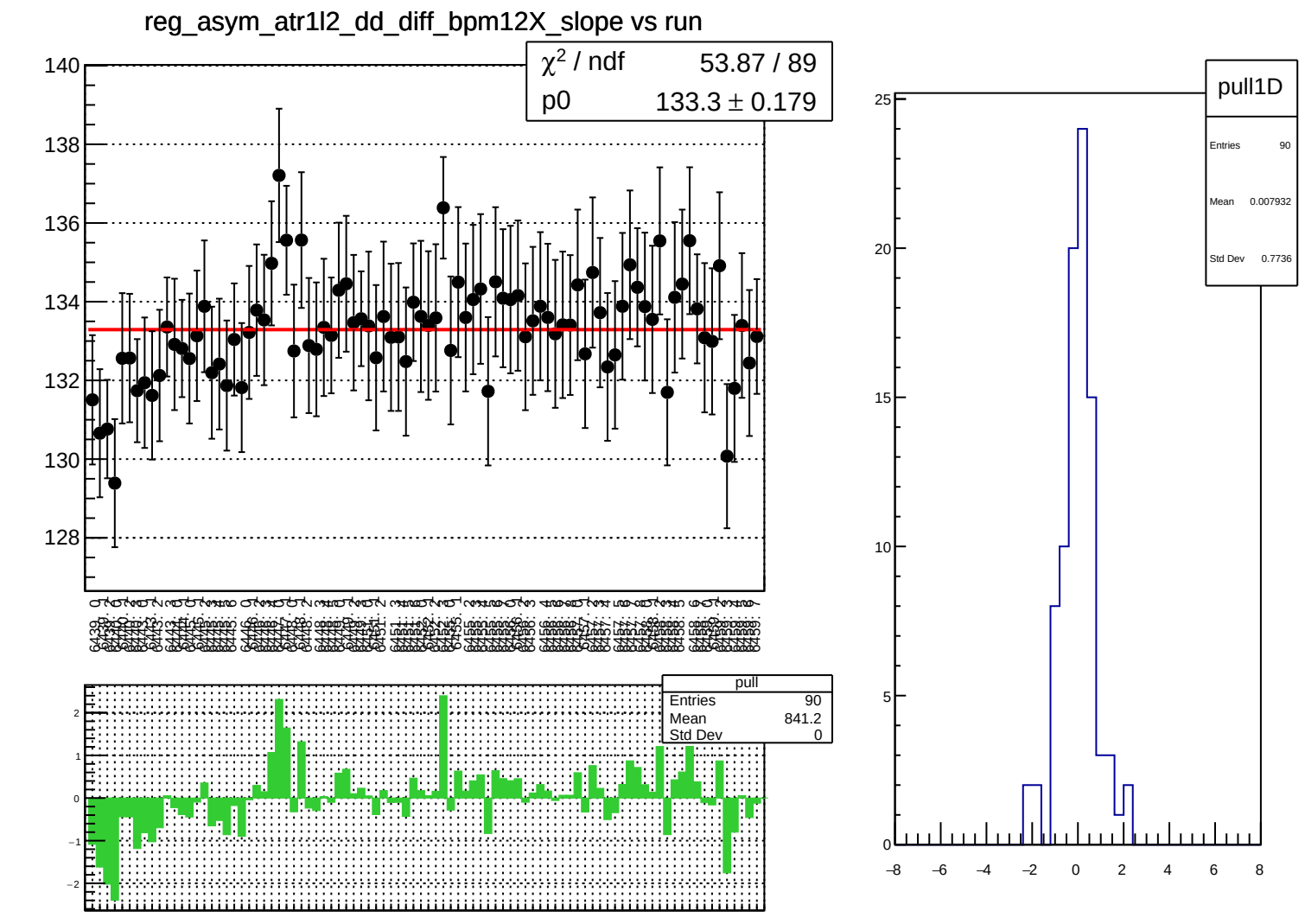

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 32.74 / 89
p0 12.96 ± 4.397
pull
Entries 90
Mean −56.32
Std Dev 0

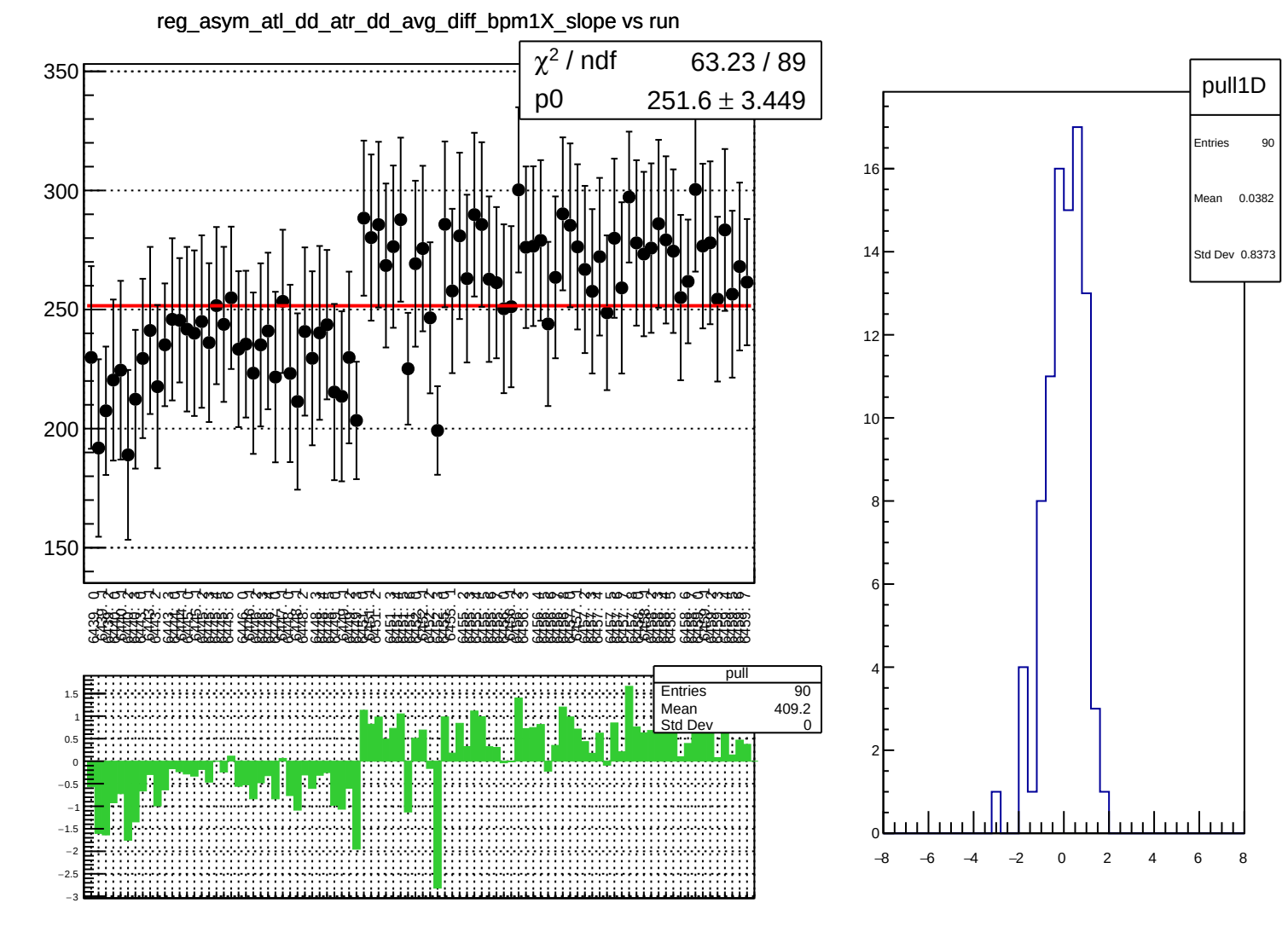

pull1D
Entries 90
Mean −0.02779
Std Dev 0.6025

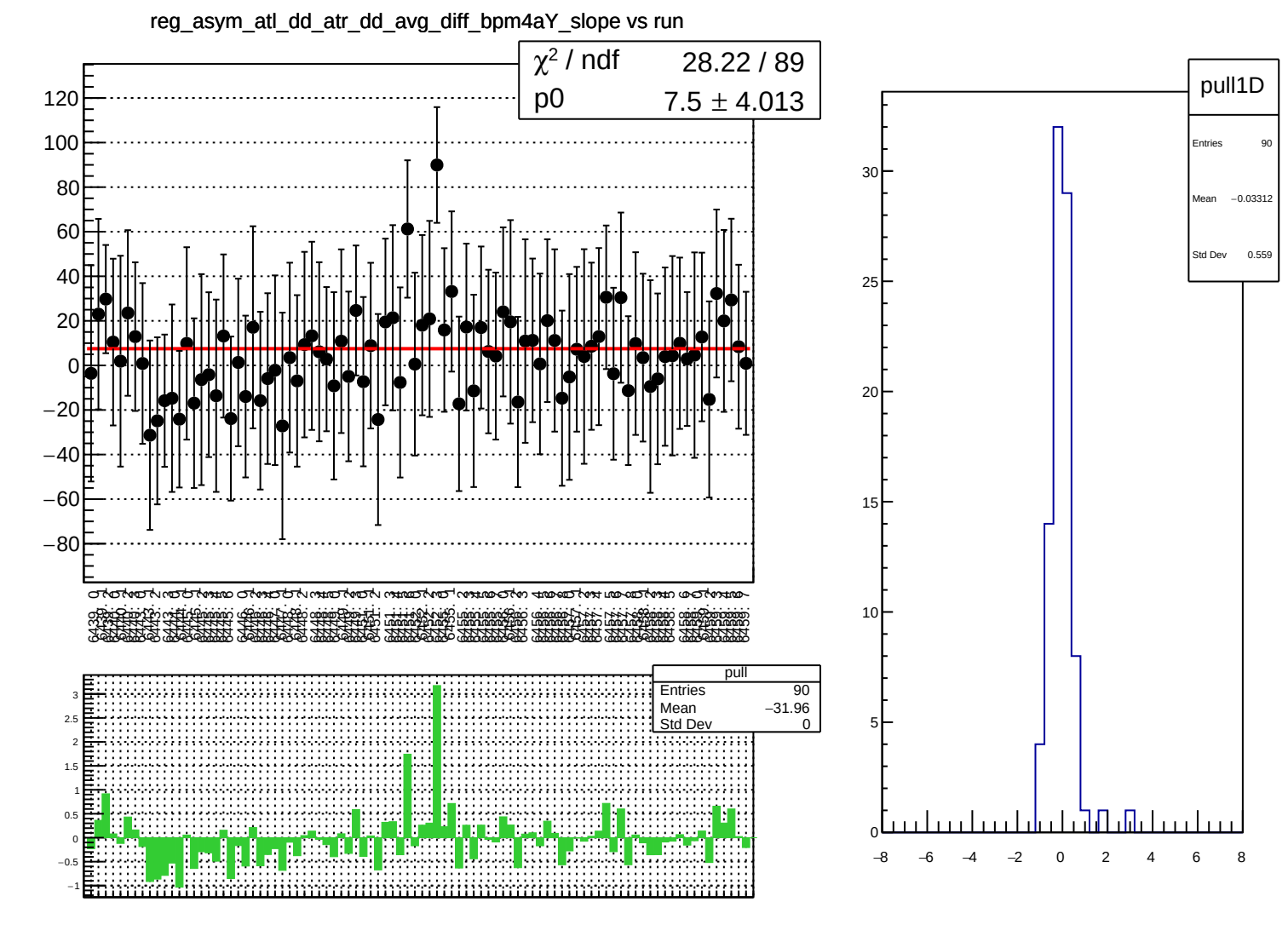

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 66.02 / 89
p0 −274.5 ± 3.812
pull
Entries 90
Mean 679.8
Std Dev 0

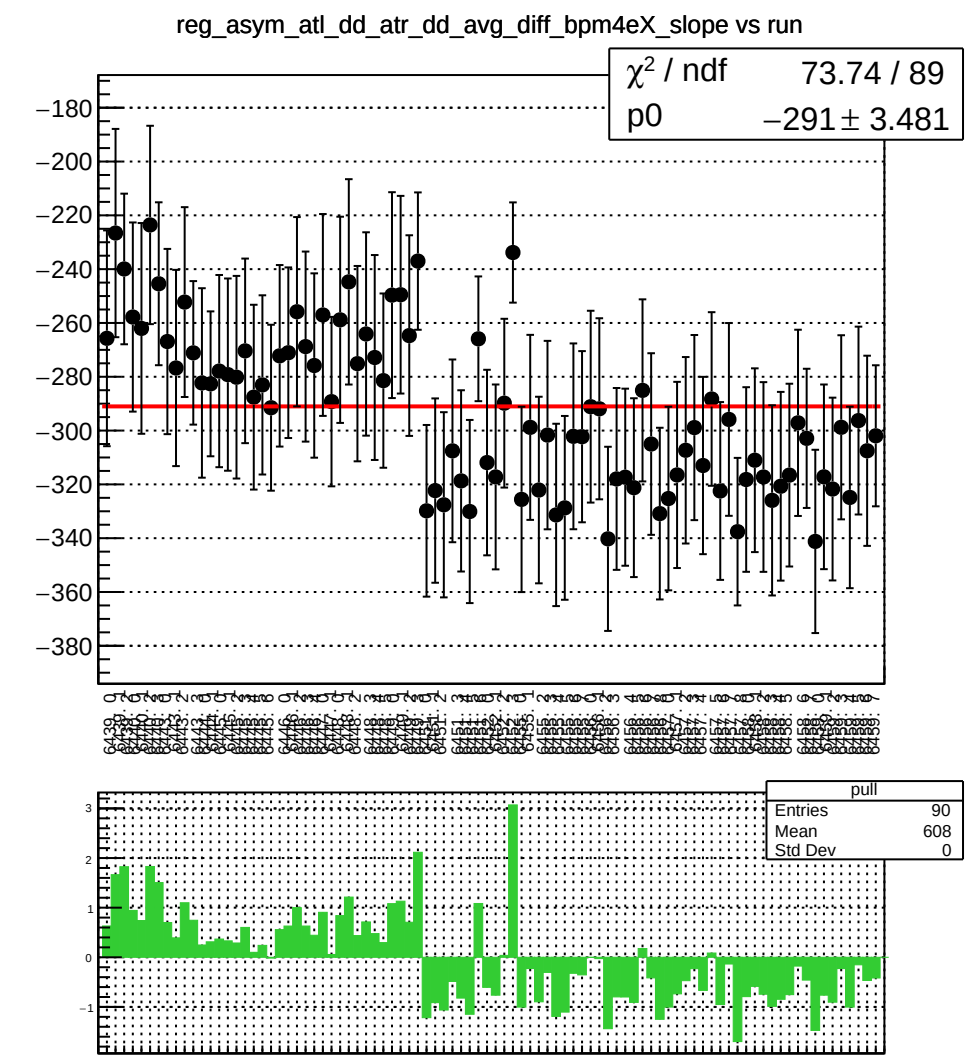

pull1D
Entries 90
Mean −0.02174
Std Dev 0.8562

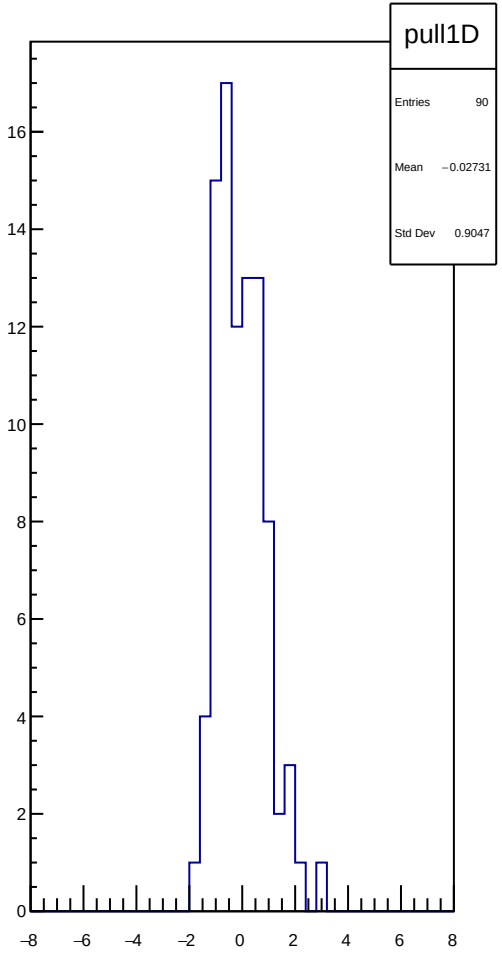

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 44.62 / 89
p0 −131.8 ± 4.404
pull
Entries 90
Mean −252.4
Std Dev 0
pull1D
Entries 90
Mean 0.02541
Std Dev 0.7037

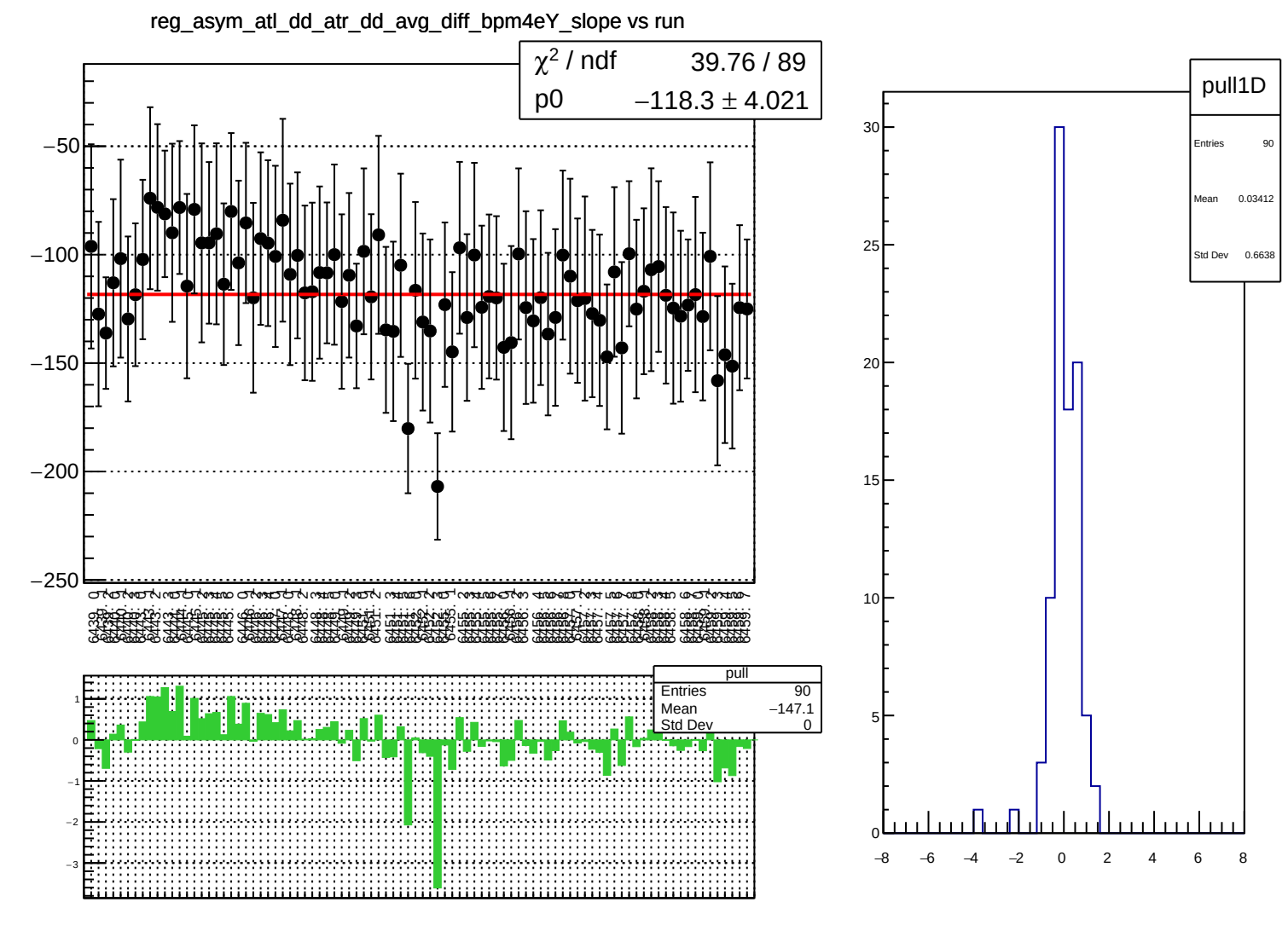

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 53.87 / 89
p0 133.3 ± 0.179
140
138
136
134
132
130
128
pull
Entries 90
Mean 841.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 90
Mean 0.007932
Std Dev 0.7736
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

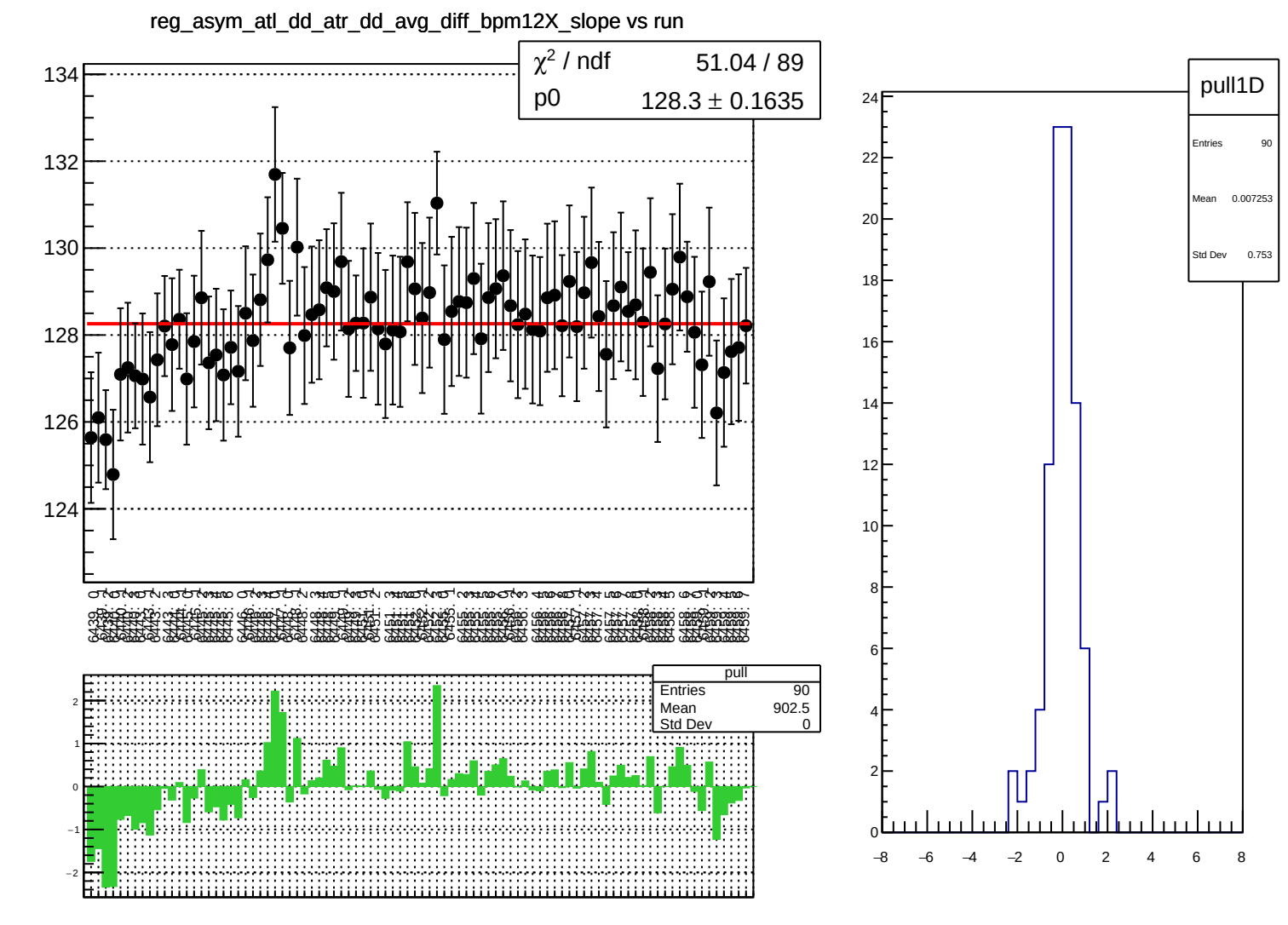

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 63.23 / 89
p0 251.6 ± 3.449
350
300
250
200
150
pull
Entries 90
Mean 409.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 90
Mean 0.0382
Std Dev 0.8373
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

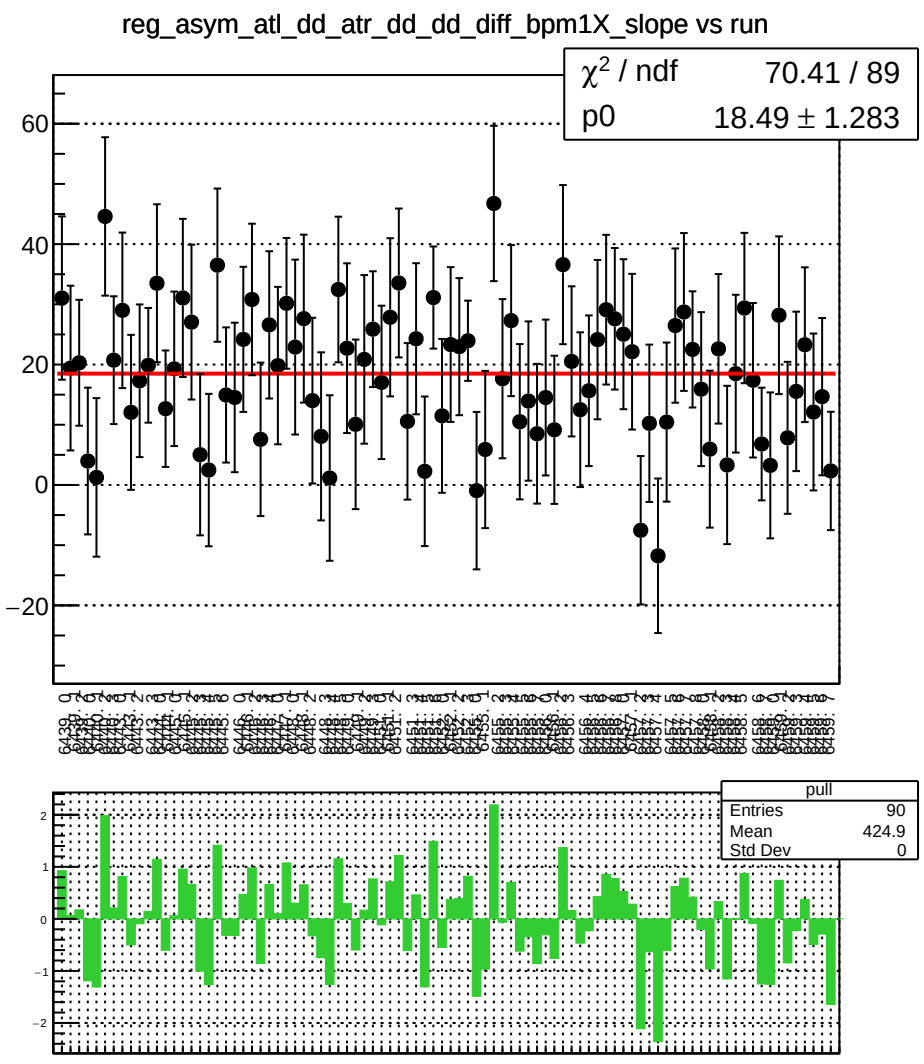

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 28.22 / 89
p0 7.5 ± 4.013
pull
Entries 90
Mean −31.96
Std Dev 0
pull1D
Entries 90
Mean −0.03312
Std Dev 0.559

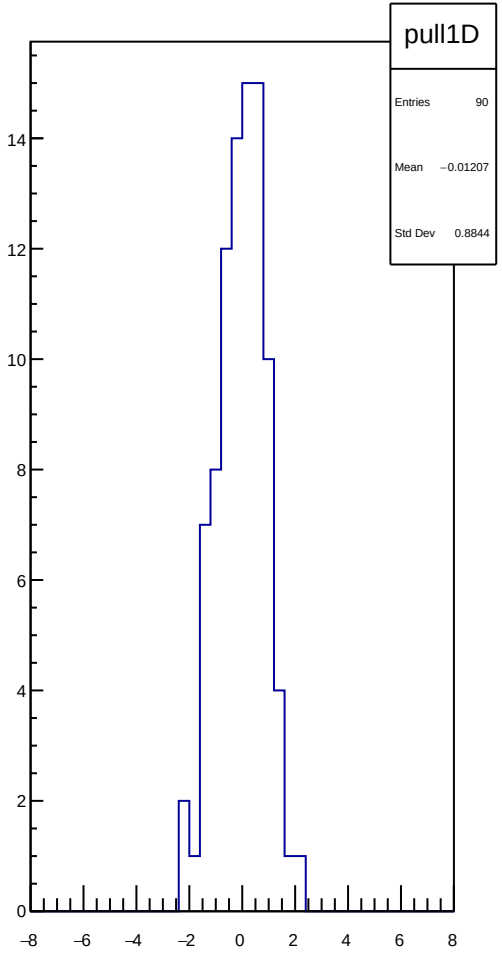

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 73.74 / 89
p0 −291 ± 3.481
pull
Entries 90
Mean 608
Std Dev 0

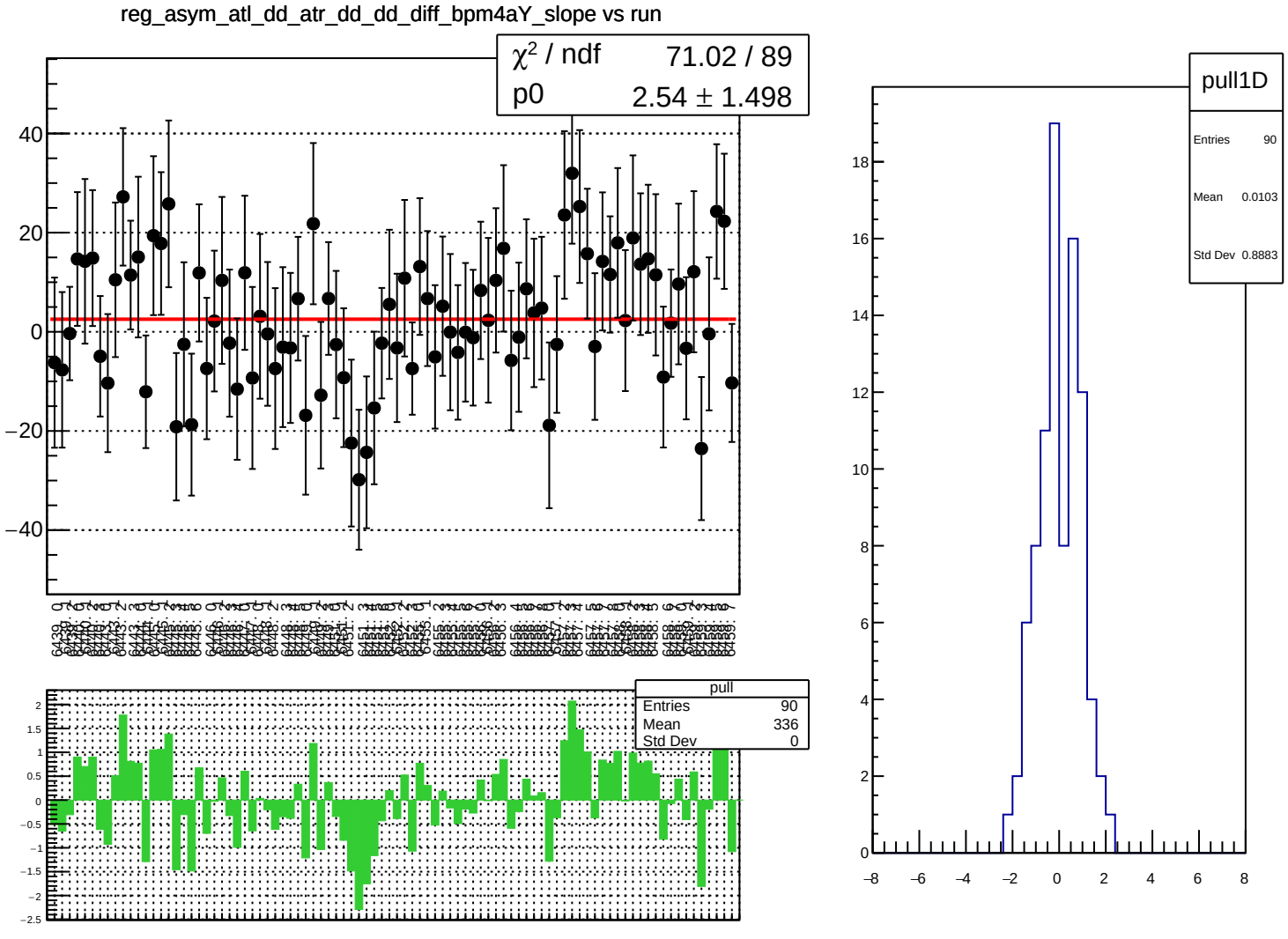

pull1D
Entries 90
Mean −0.02731
Std Dev 0.9047

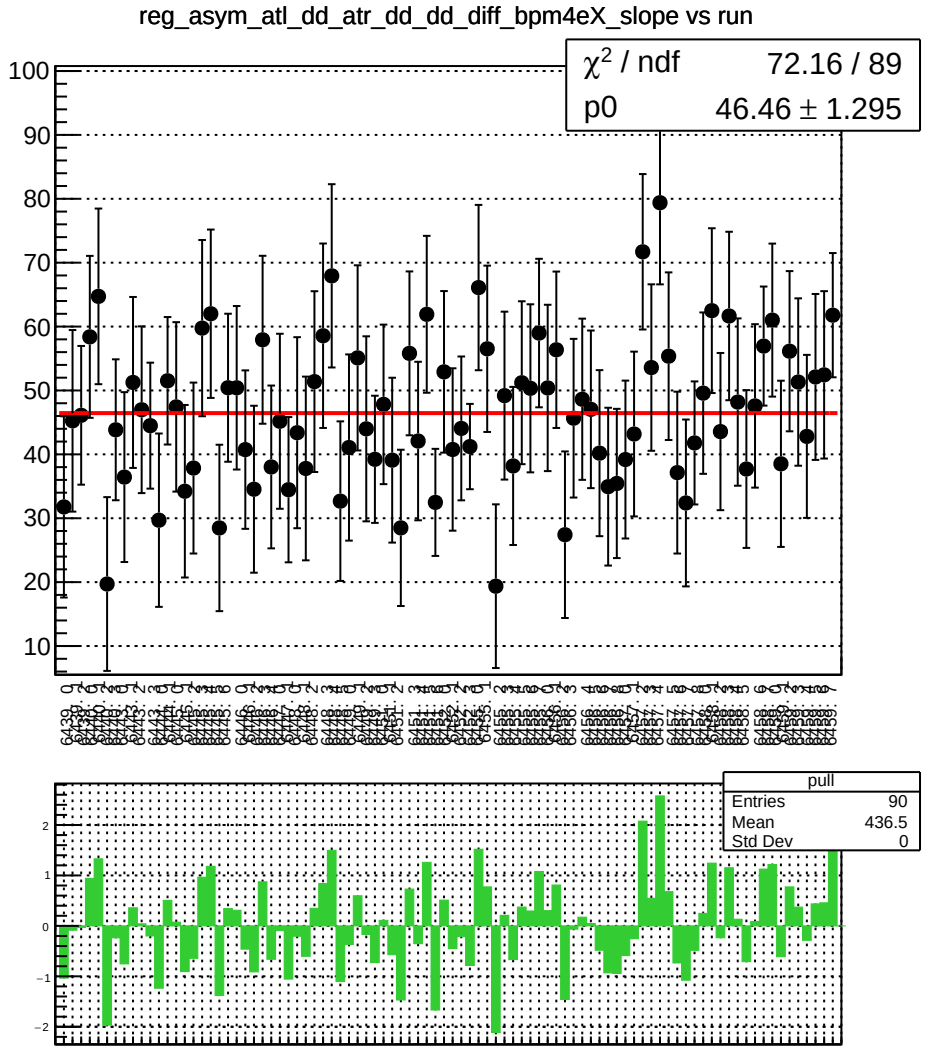

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 39.76 / 89
p0 −118.3 ± 4.021
−50
−100
−150
−200
−250
pull
Entries 90
Mean −147.1
Std Dev 0
1
0
−1
−2
−3
pull1D
Entries 90
Mean 0.03412
Std Dev 0.6638
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

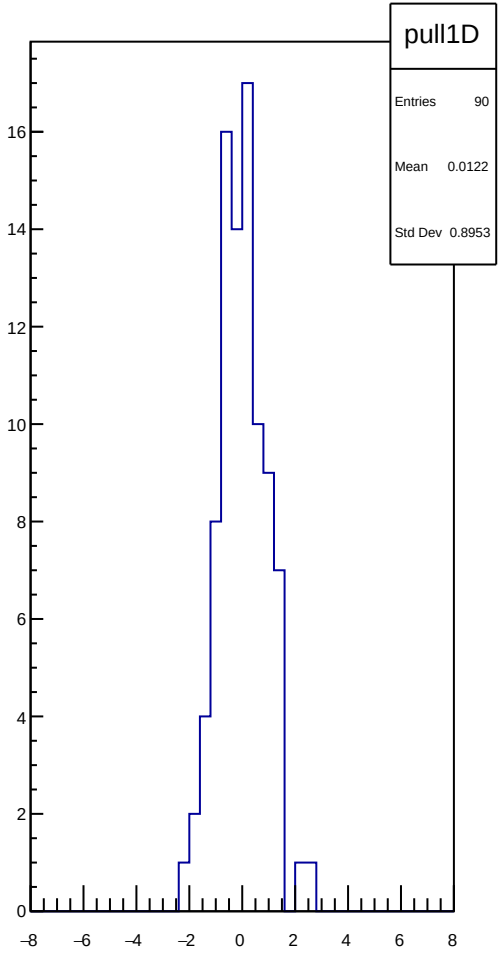

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 51.04 / 89
p0 128.3 ± 0.1635
134
132
130
128
126
124
pull
Entries 90
Mean 902.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 90
Mean 0.007253
Std Dev 0.753
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

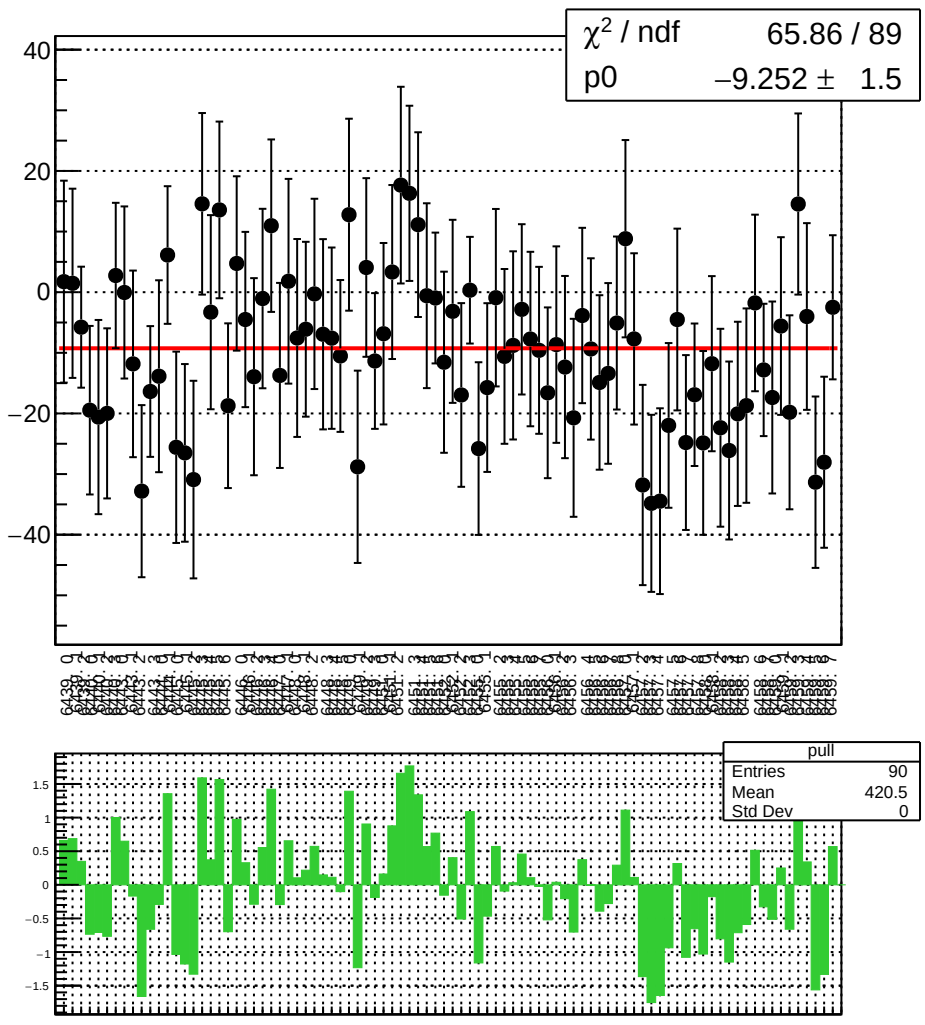

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 70.41 / 89
p0 18.49 ± 1.283
pull
Entries 90
Mean 424.9
Std Dev 0

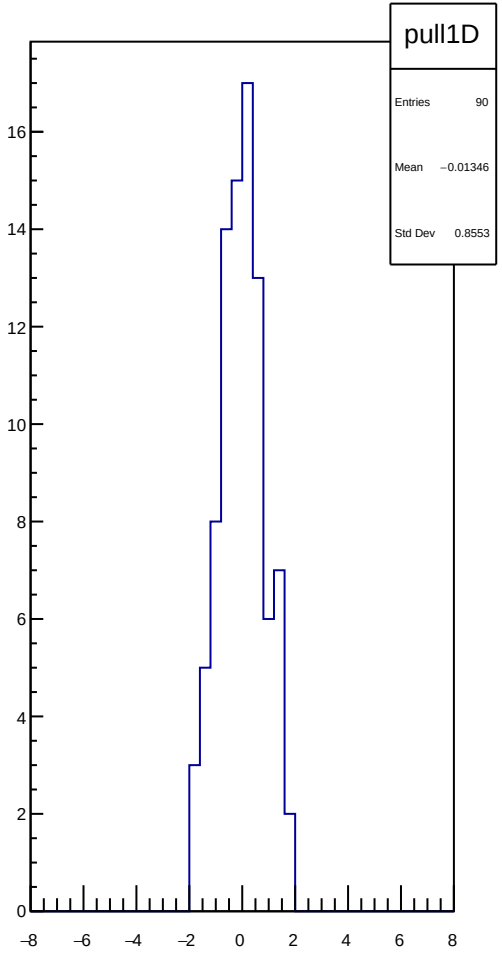

pull1D
Entries 90
Mean −0.01207
Std Dev 0.8844

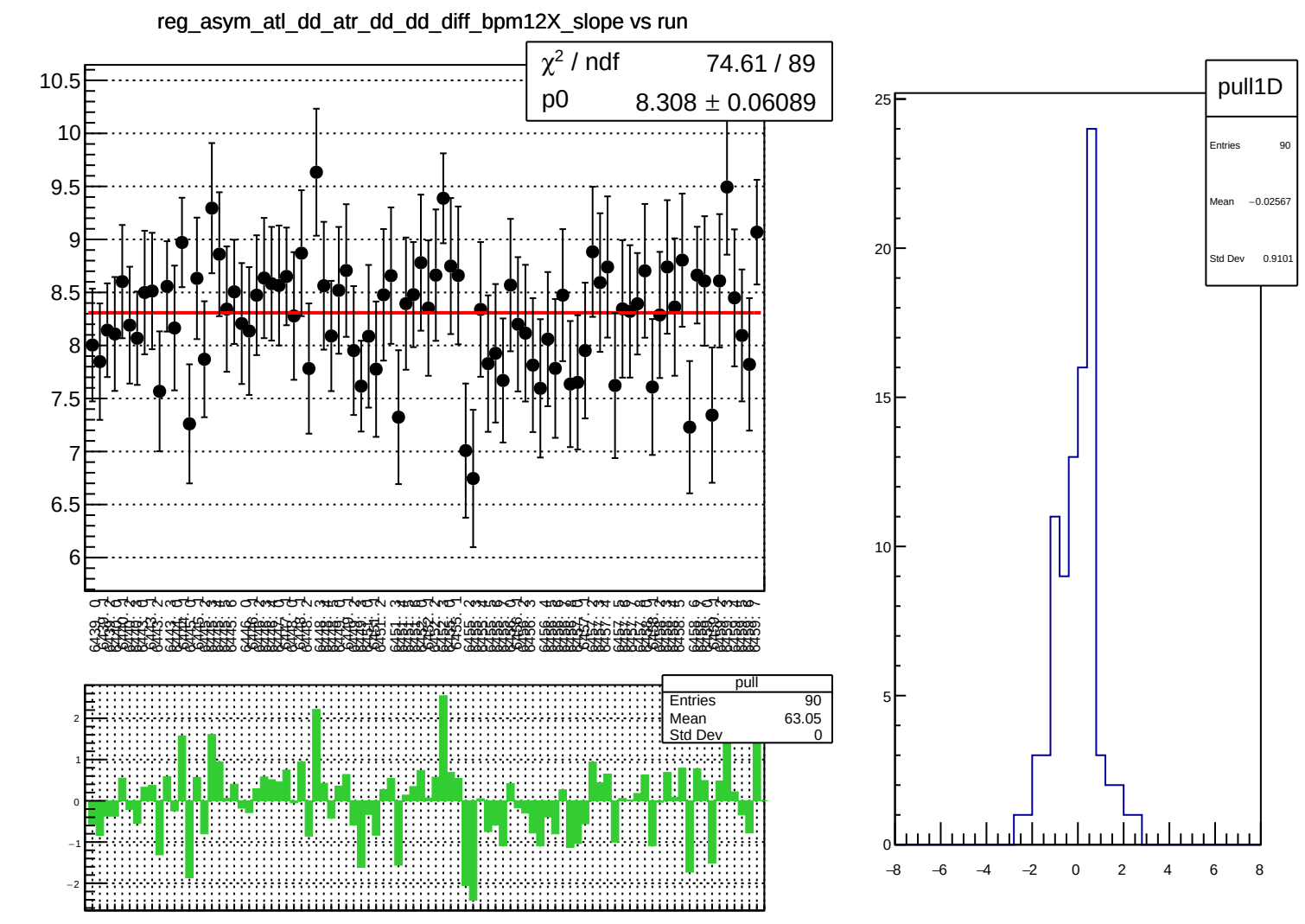

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 71.02 / 89
p0 2.54 ± 1.498
pull
Entries 90
Mean 336
Std Dev 0
pull1D
Entries 90
Mean 0.0103
Std Dev 0.8883

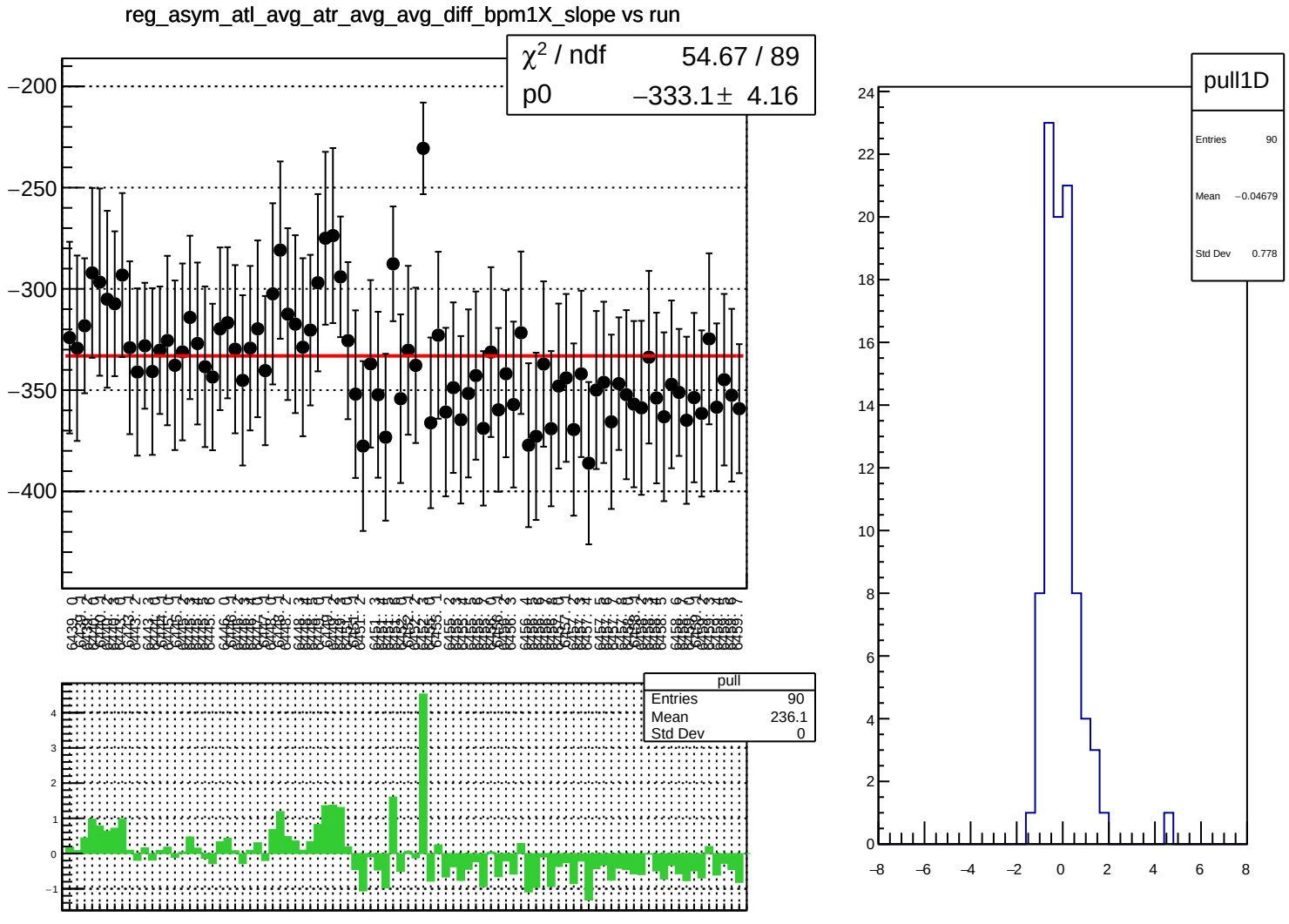

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 72.16 / 89
p0 46.46 ± 1.295
pull
Entries 90
Mean 436.5
Std Dev 0

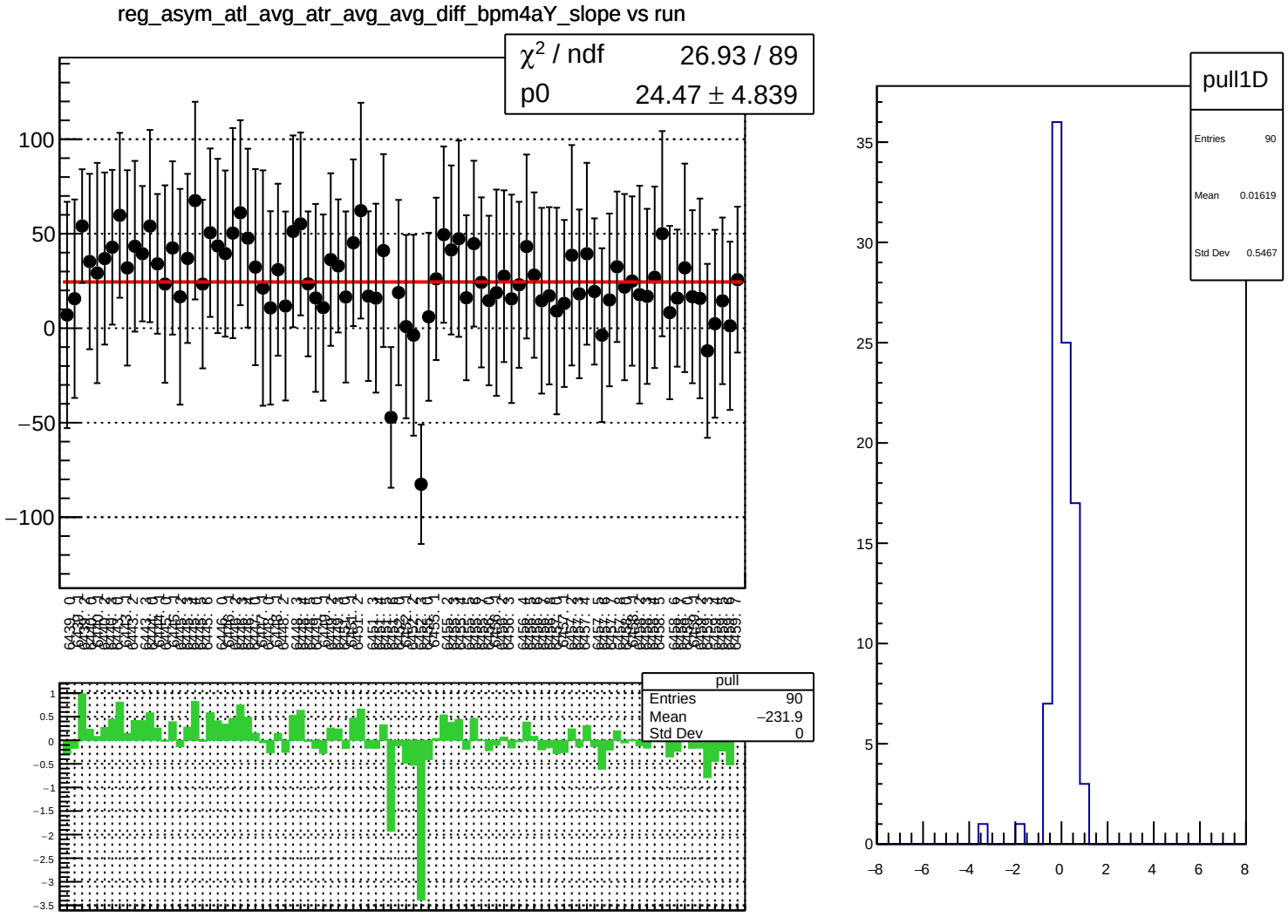

pull1D
Entries 90
Mean 0.0122
Std Dev 0.8953

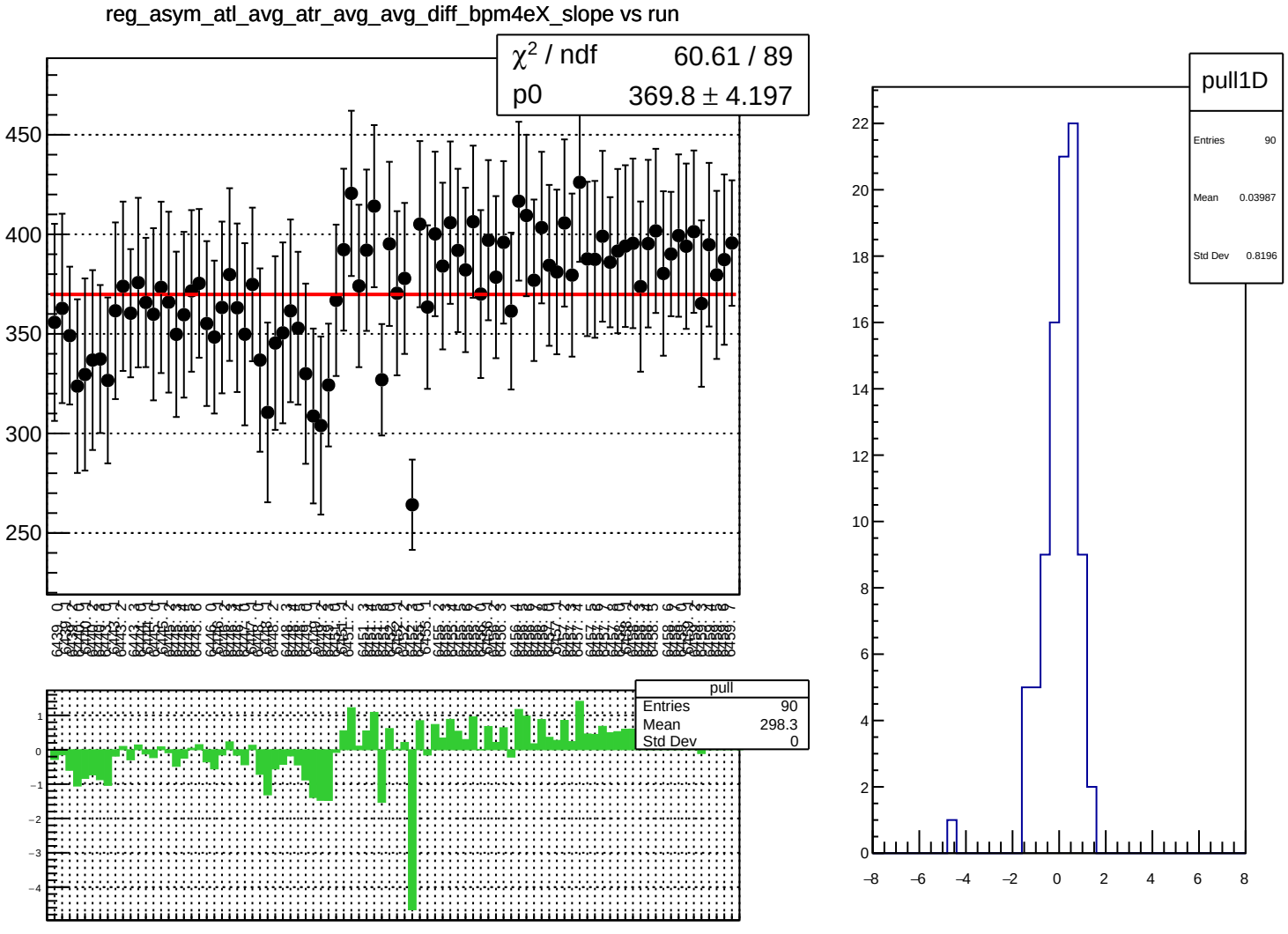

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 65.86 / 89
p0 −9.252 ± 1.5
pull
Entries 90
Mean 420.5
Std Dev 0

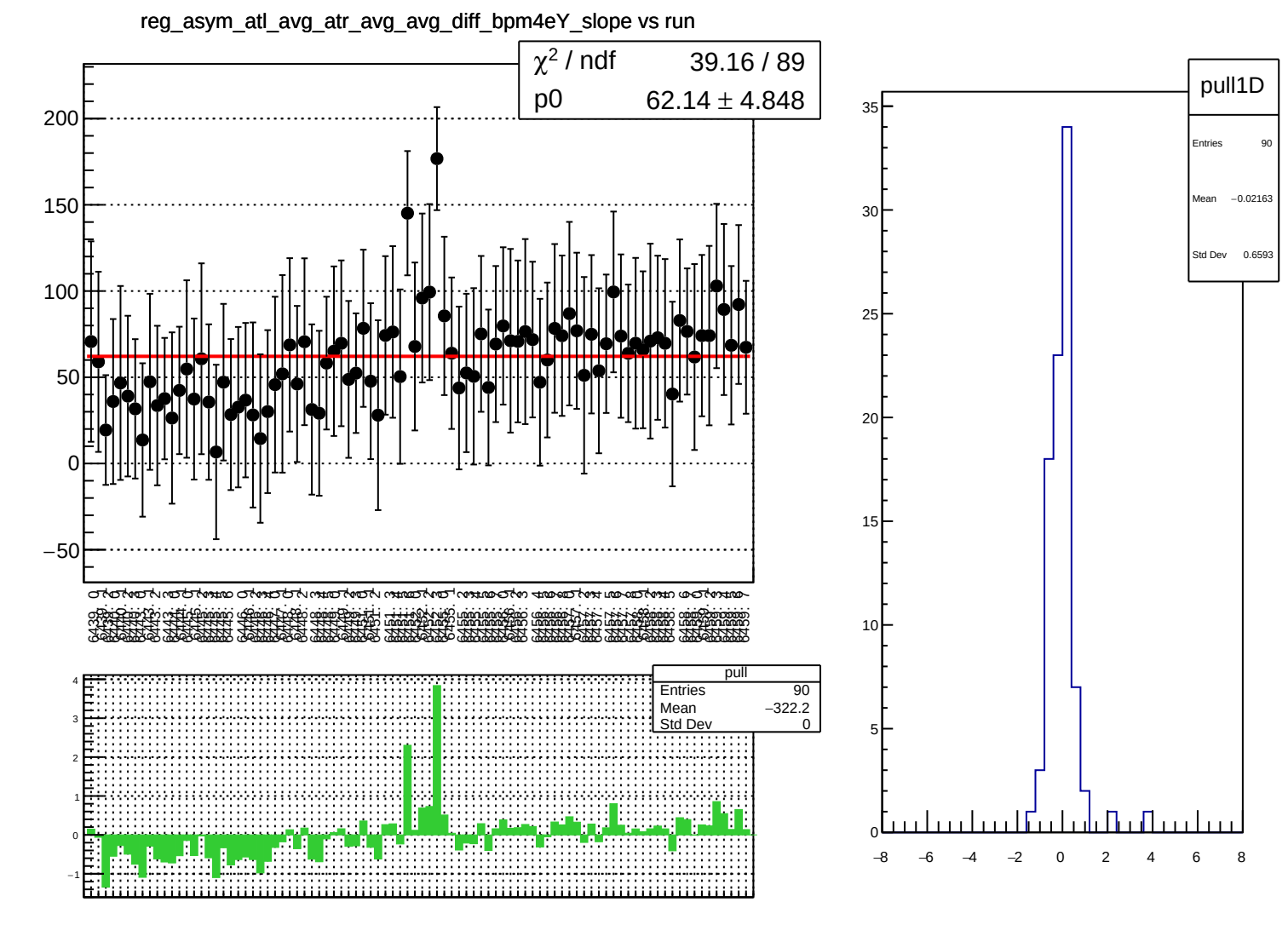

pull1D
Entries 90
Mean −0.01346
Std Dev 0.8553

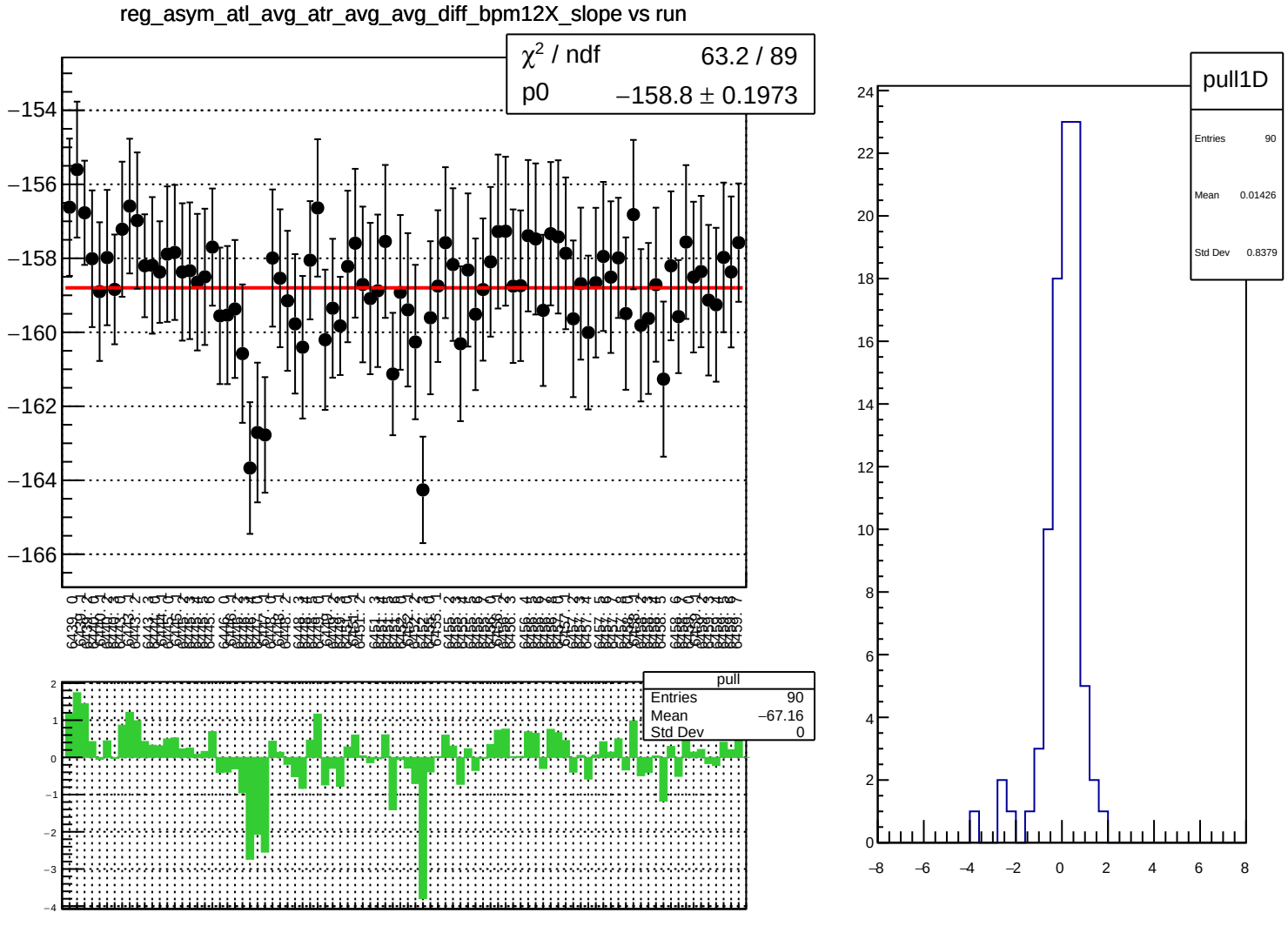

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 74.61 / 89
p0 8.308 ± 0.06089
pull
Entries 90
Mean 63.05
Std Dev 0
pull1D
Entries 90
Mean −0.02567
Std Dev 0.9101

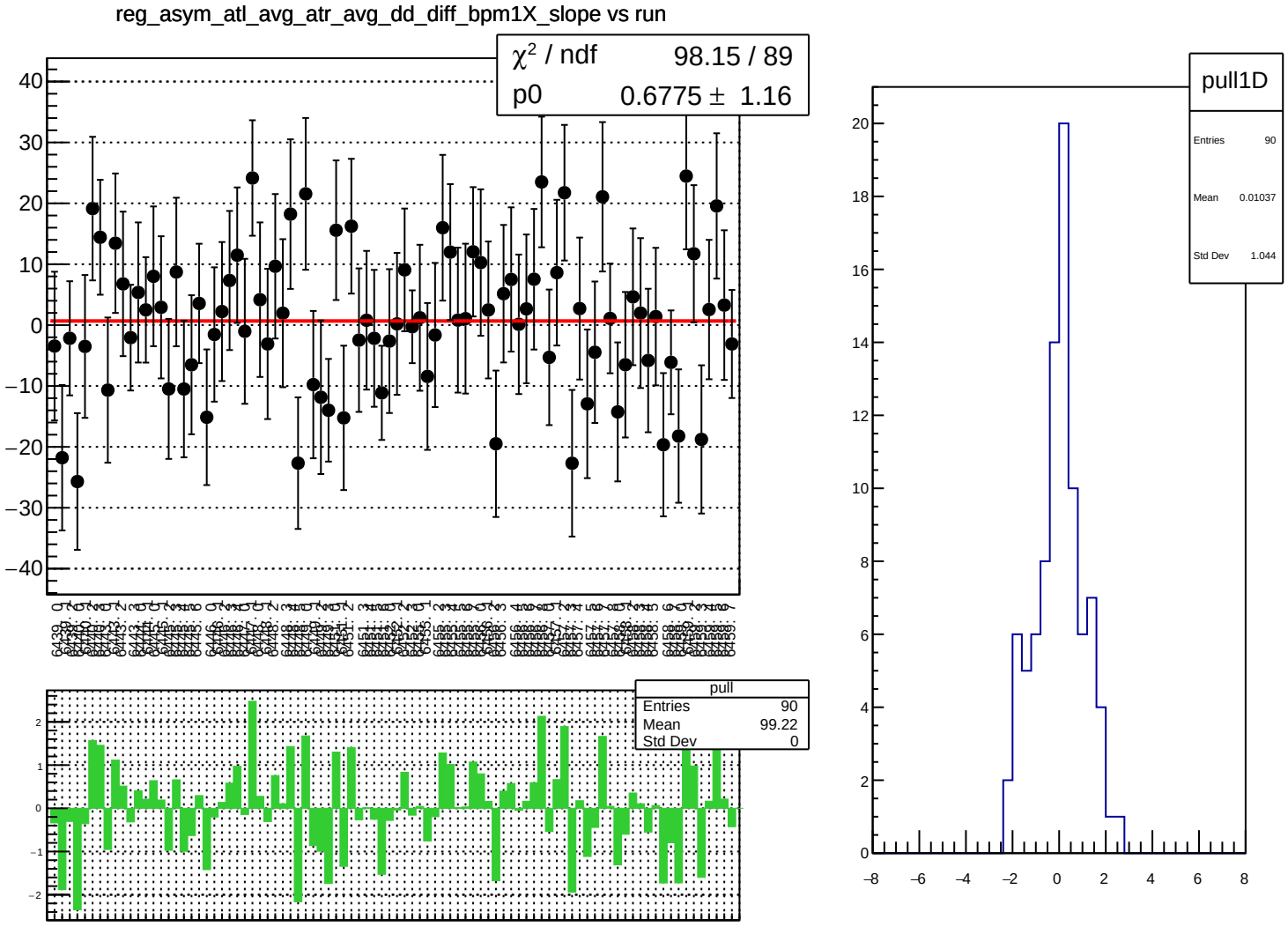

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 54.67 / 89
p0 −333.1± 4.16
−200
−250
−300
−350
−400
pull
Entries 90
Mean 236.1
Std Dev 0
4
3
2
1
0
−1
pull1D
Entries 90
Mean −0.04679
Std Dev 0.778
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

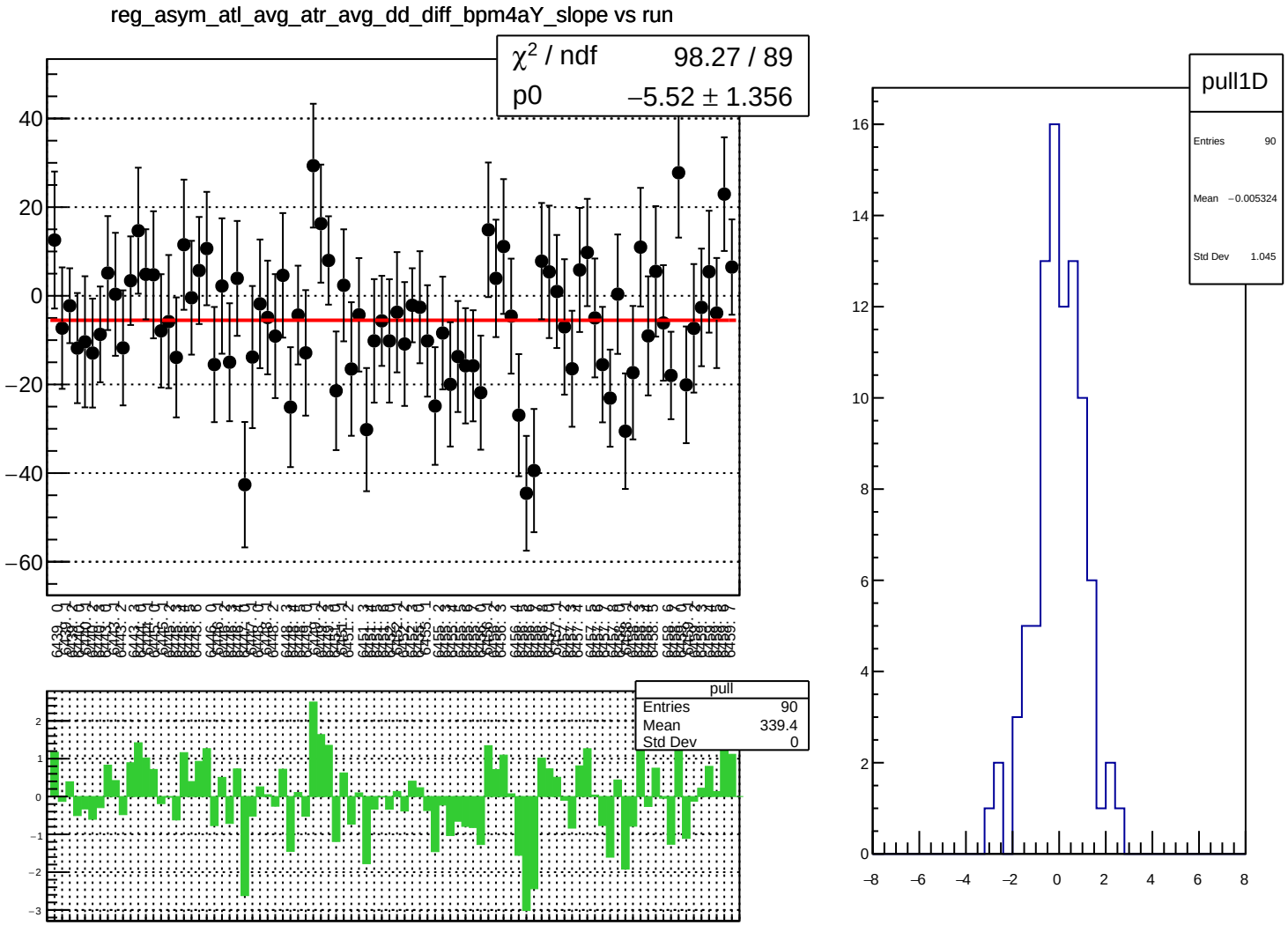

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 26.93 / 89
p0 24.47 ± 4.839
100
50
0
−50
−100
pull
Entries 90
Mean −231.9
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
−3.5
pull1D
Entries 90
Mean 0.01619
Std Dev 0.5467
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

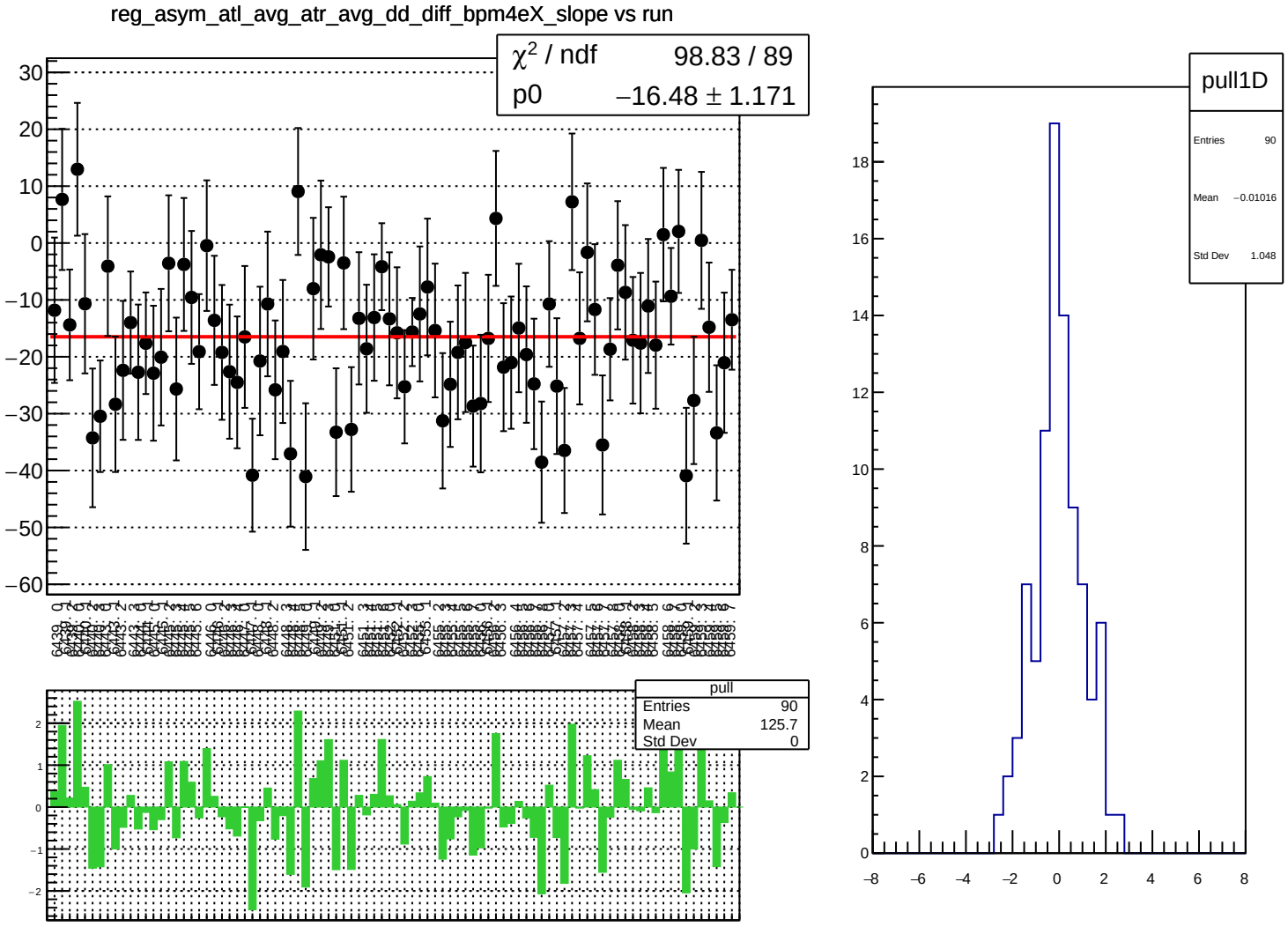

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 60.61 / 89
p0 369.8 ± 4.197
450
400
350
300
250
pull
Entries 90
Mean 298.3
Std Dev 0
1
0
−1
−2
−3
−4
pull1D
Entries 90
Mean 0.03987
Std Dev 0.8196
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

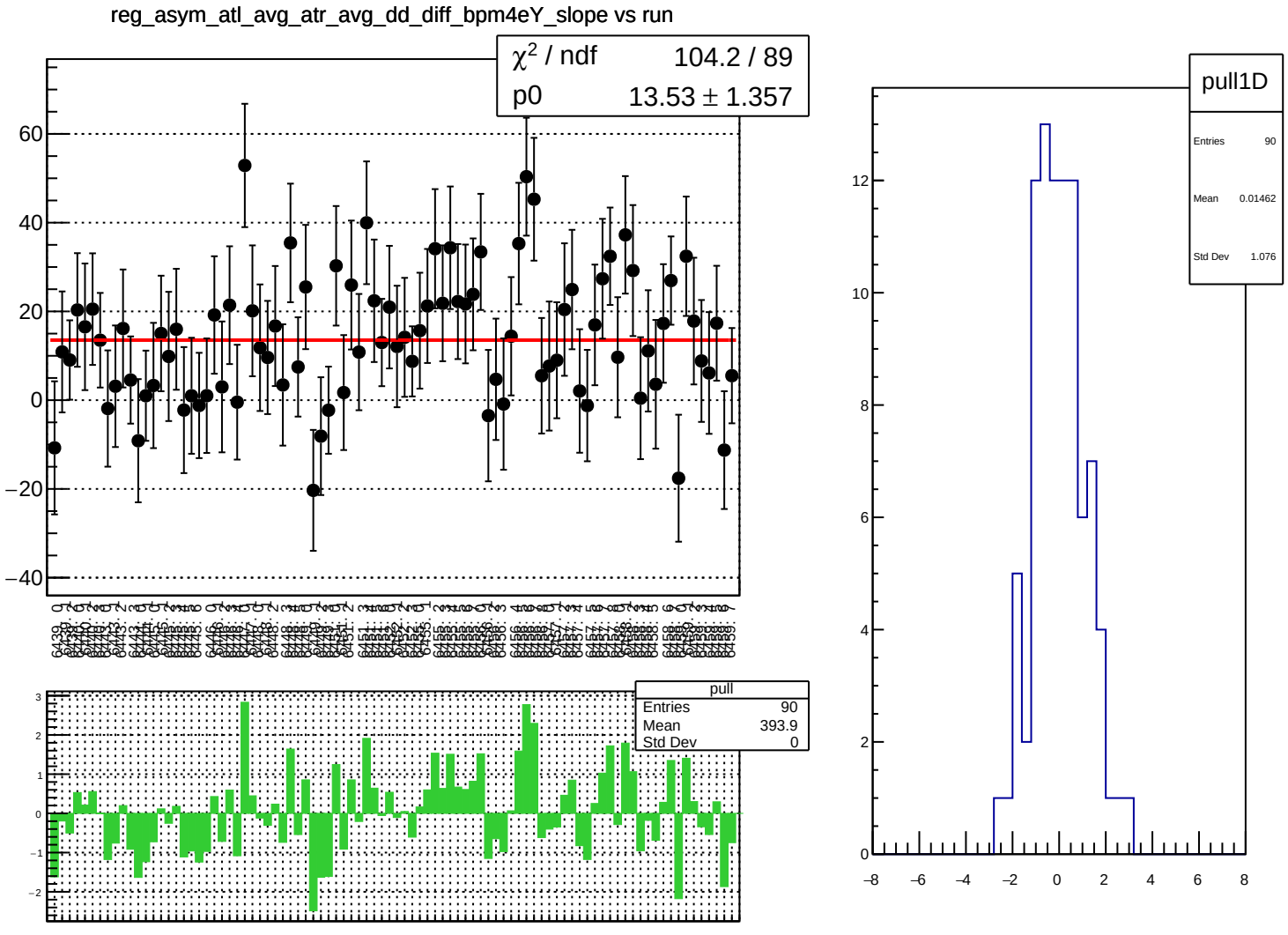

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 39.16 / 89
p0 62.14 ± 4.848
pull
Entries 90
Mean −322.2
Std Dev 0
pull1D
Entries 90
Mean −0.02163
Std Dev 0.6593

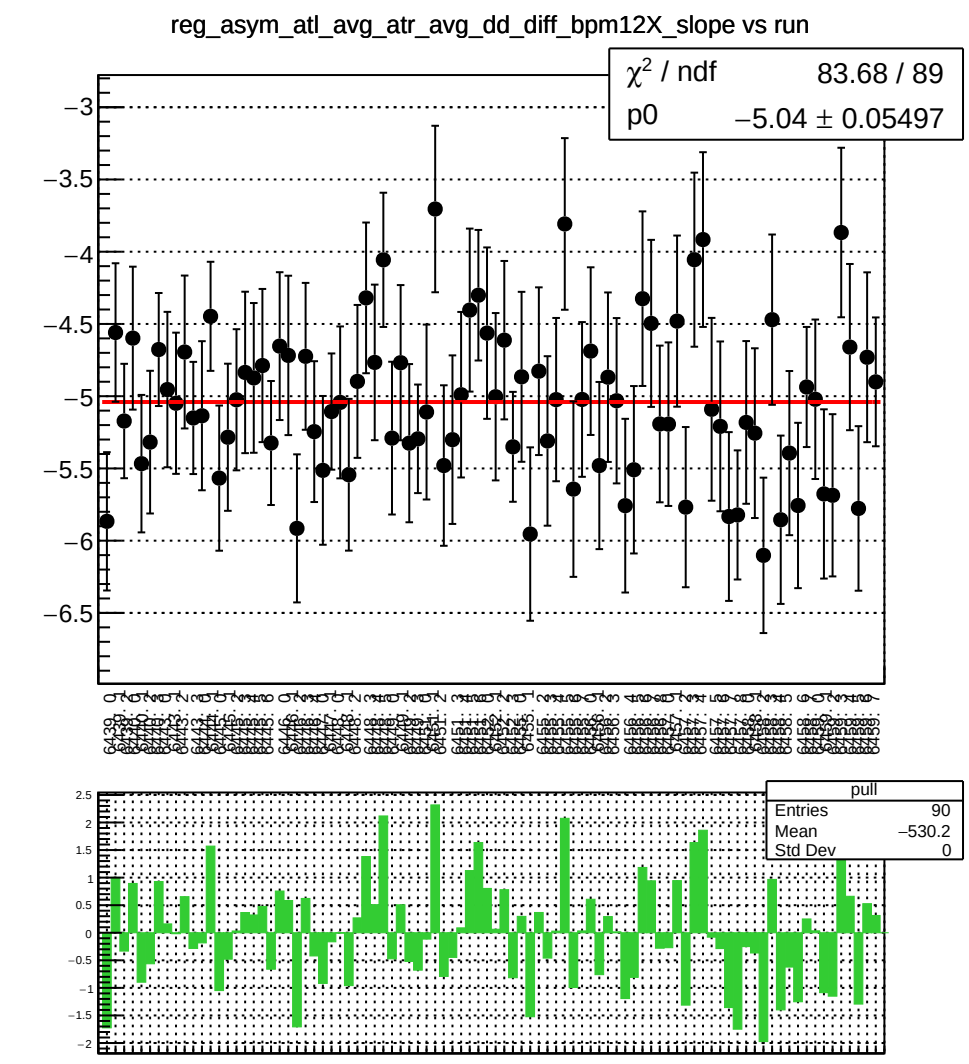

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 63.2 / 89
p0 −158.8 ± 0.1973
pull
Entries 90
Mean −67.16
Std Dev 0
pull1D
Entries 90
Mean 0.01426
Std Dev 0.8379

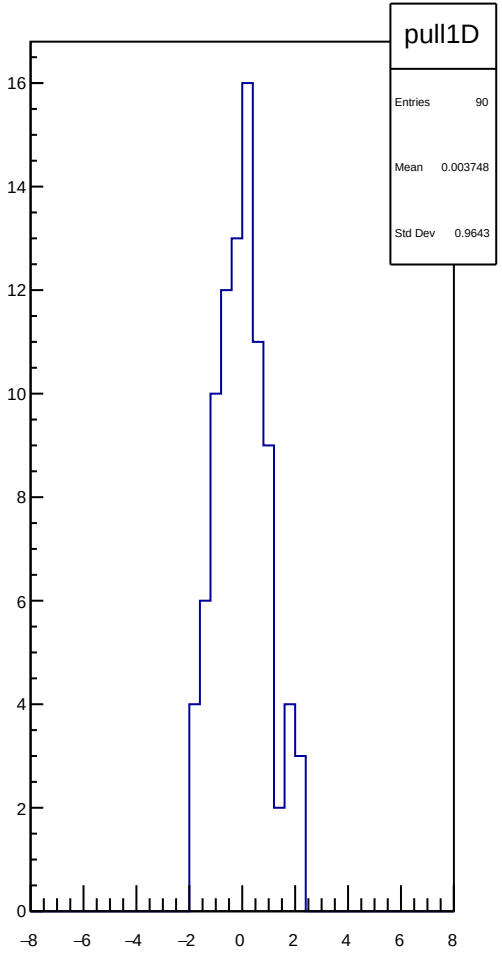

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 98.15 / 89
p0 0.6775 ± 1.16
pull
Entries 90
Mean 99.22
Std Dev 0
pull1D
Entries 90
Mean 0.01037
Std Dev 1.044

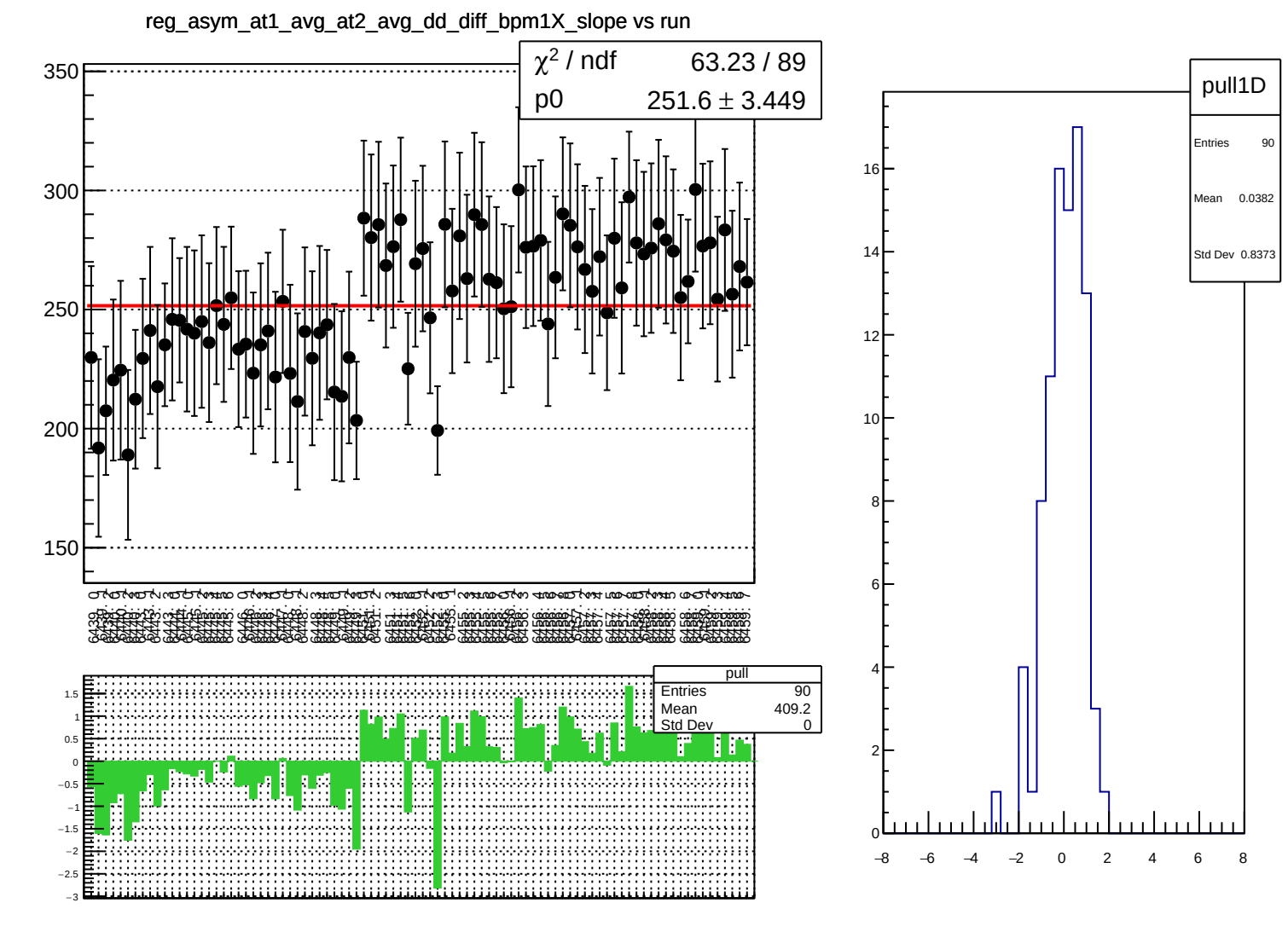

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 98.27 / 89
p0 −5.52 ± 1.356
pull
Entries 90
Mean 339.4
Std Dev 0
pull1D
Entries 90
Mean −0.005324
Std Dev 1.045

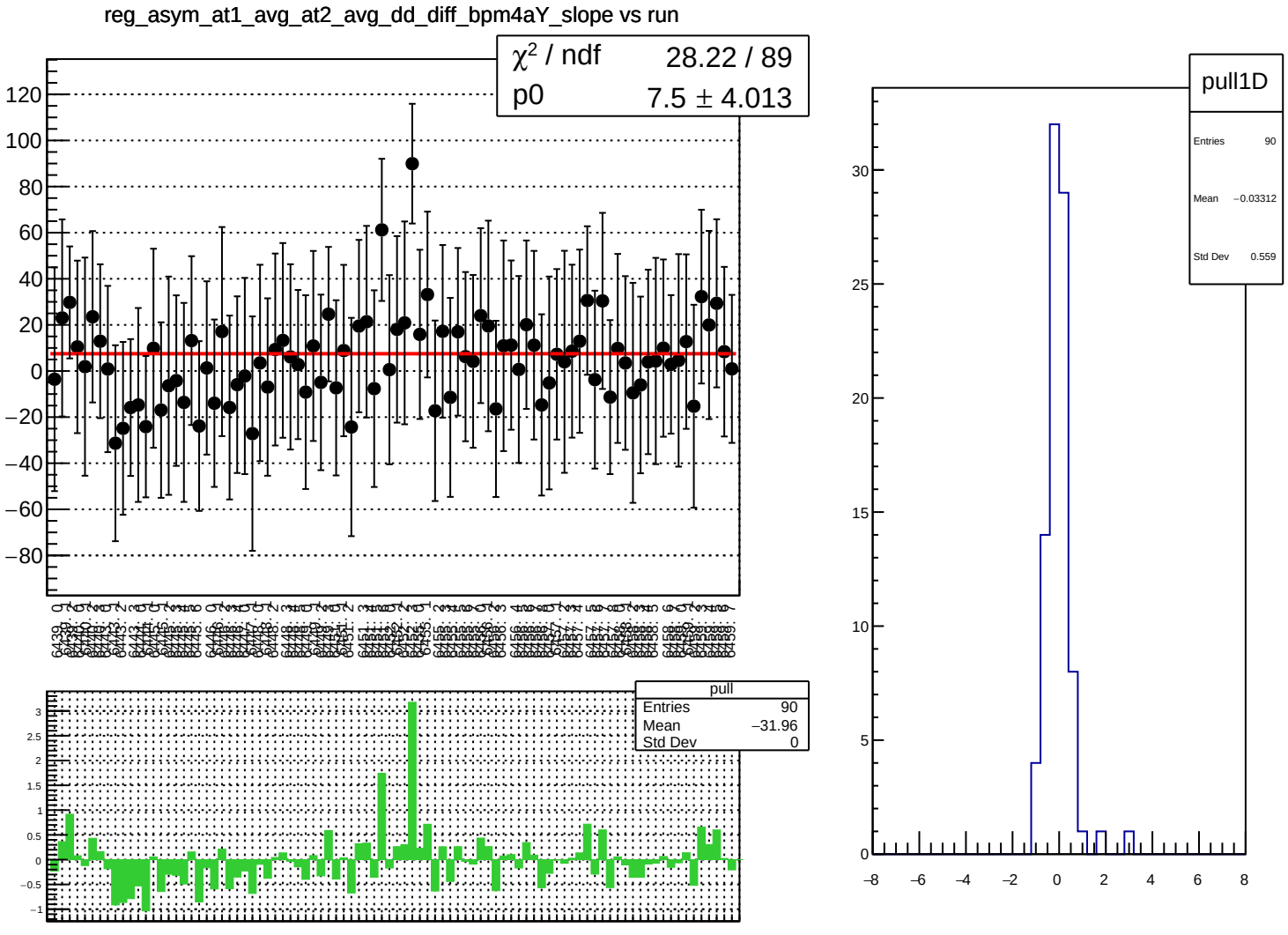

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 98.83 / 89
p0 −16.48 ± 1.171
pull
Entries 90
Mean 125.7
Std Dev 0
pull1D
Entries 90
Mean −0.01016
Std Dev 1.048

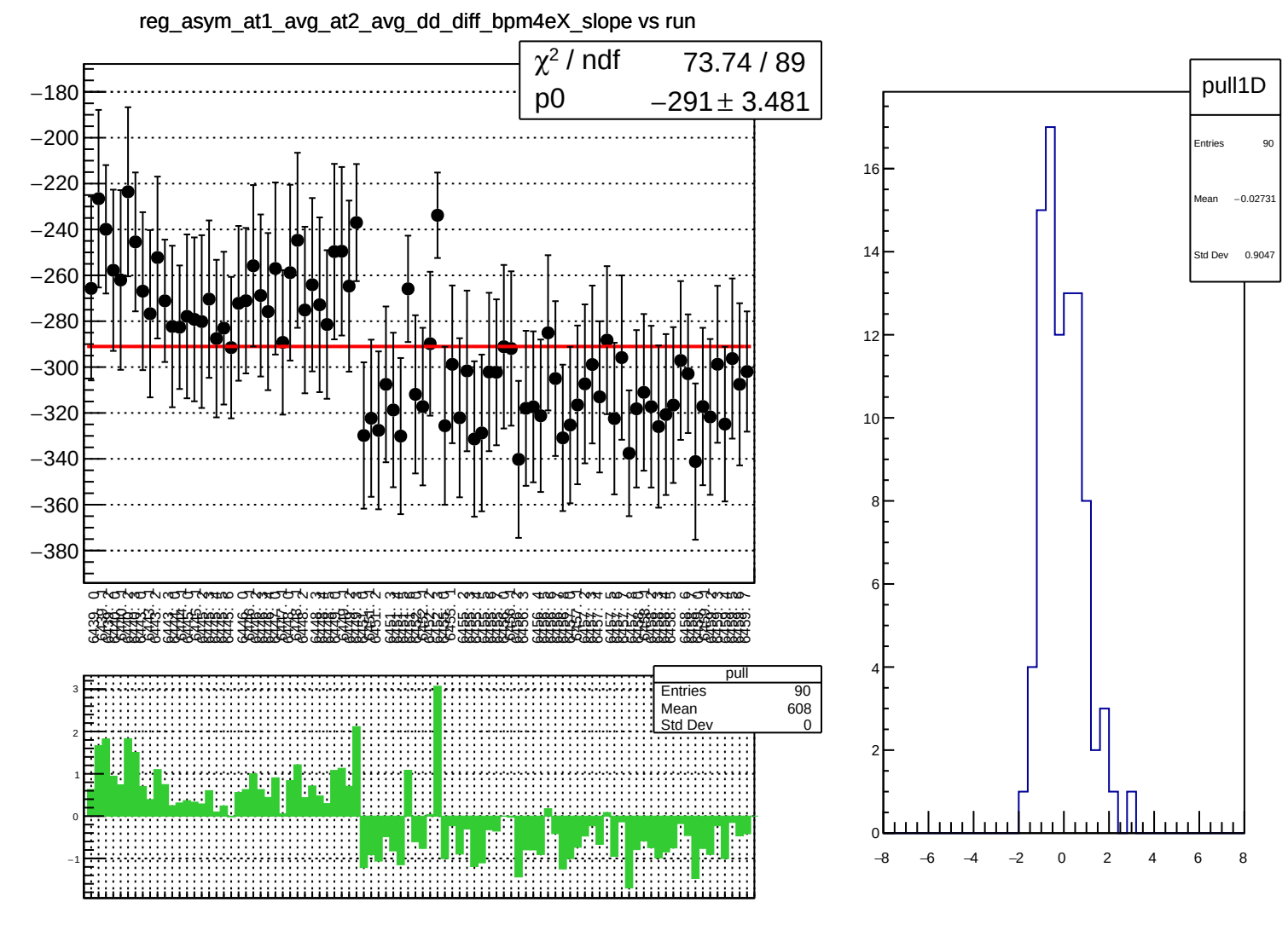

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 104.2 / 89
p0 13.53 ± 1.357
pull
Entries 90
Mean 393.9
Std Dev 0
pull1D
Entries 90
Mean 0.01462
Std Dev 1.076

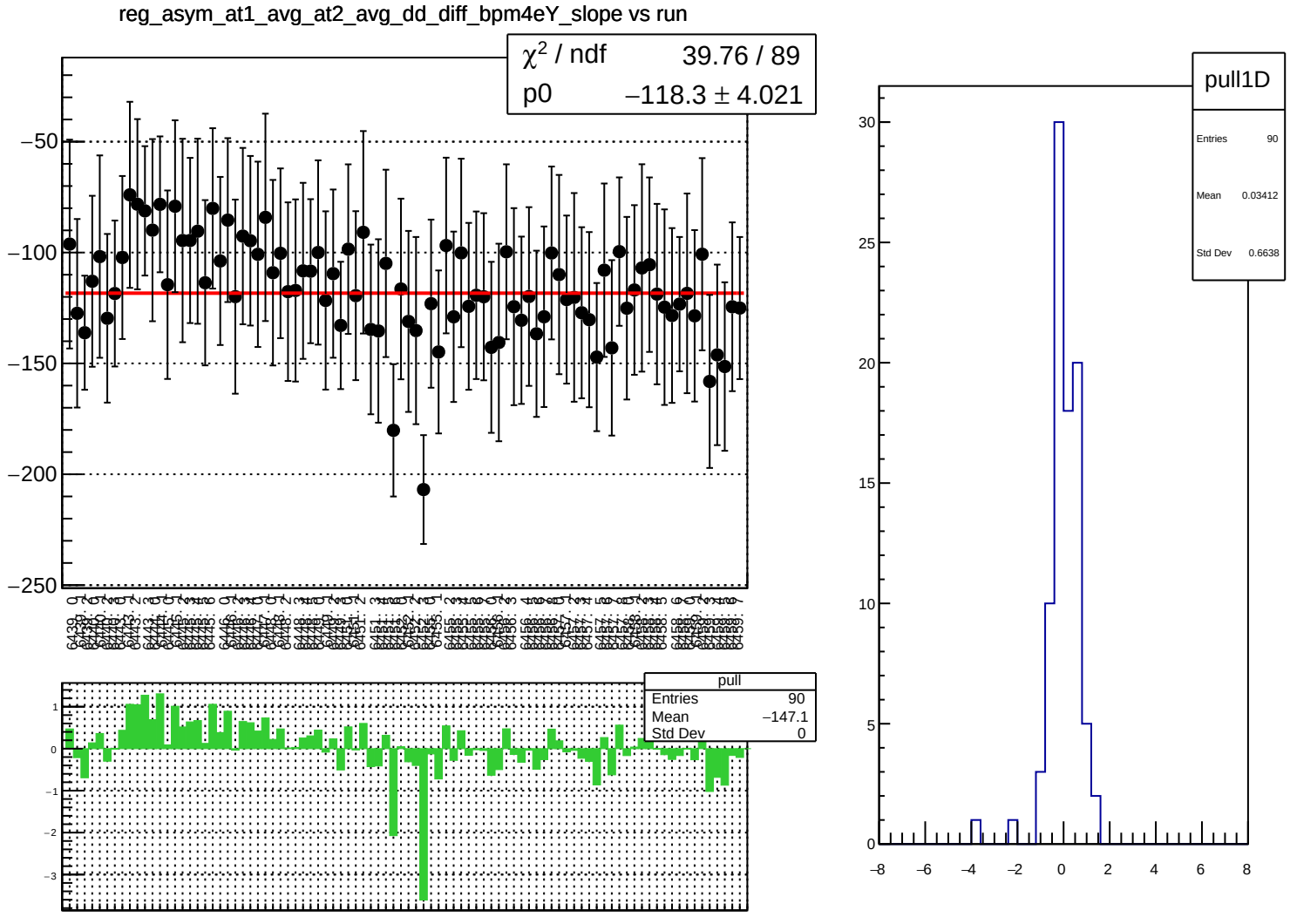

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 83.68 / 89
p0 −5.04 ± 0.05497
pull
Entries 90
Mean −530.2
Std Dev 0

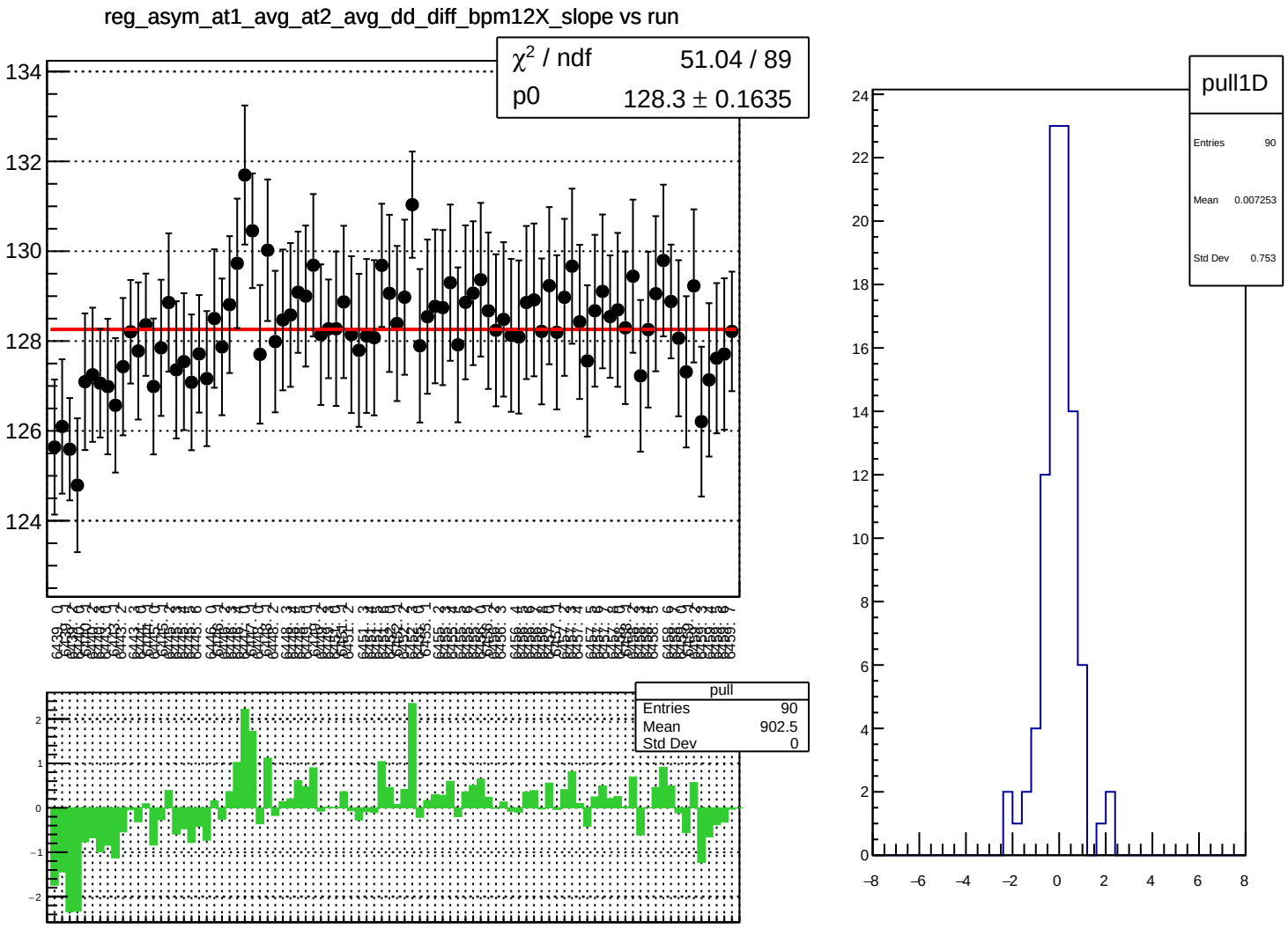

pull1D
Entries 90
Mean 0.003748
Std Dev 0.9643

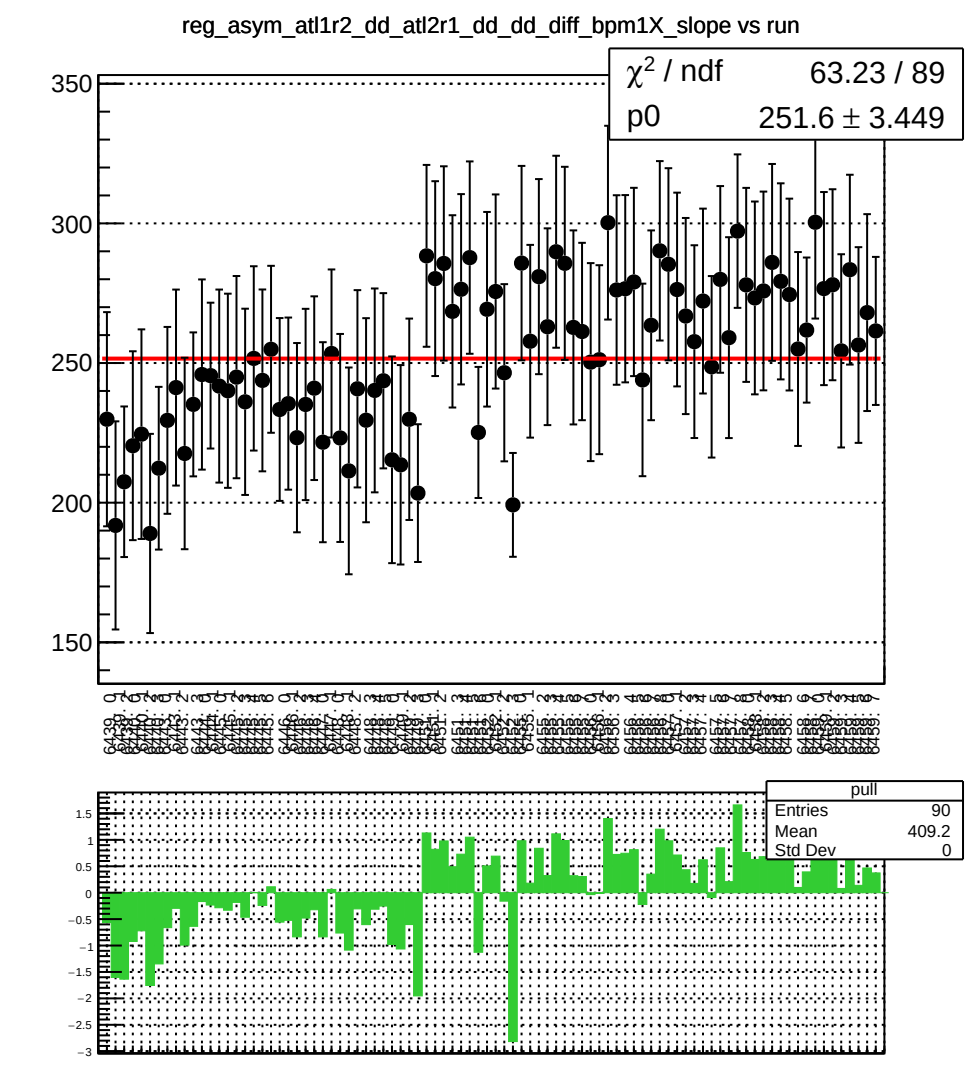

reg_asym_at1_avg_at2_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 63.23 / 89
p0 251.6 ± 3.449
350
300
250
200
150
pull
Entries 90
Mean 409.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 90
Mean 0.0382
Std Dev 0.8373
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

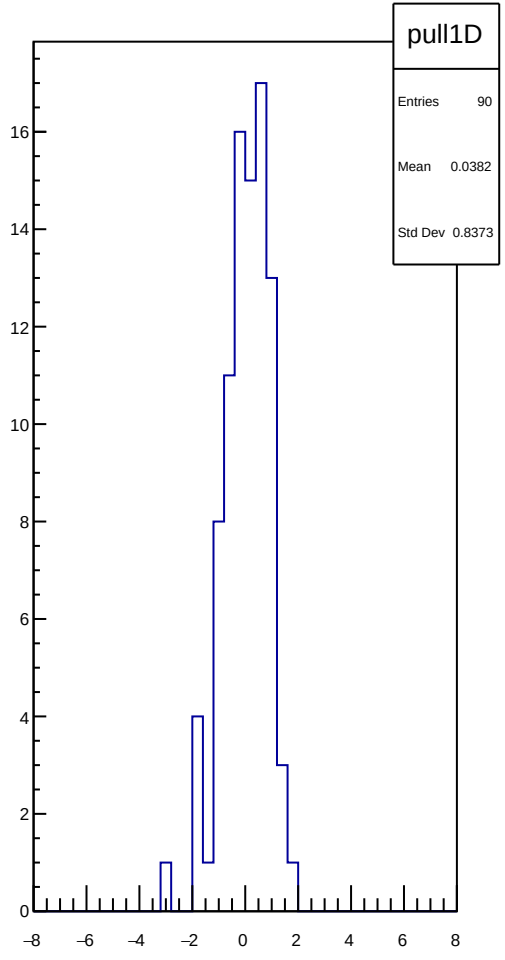

reg_asym_at1_avg_at2_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 28.22 / 89
p0 7.5 ± 4.013
pull
Entries 90
Mean −31.96
Std Dev 0
pull1D
Entries 90
Mean −0.03312
Std Dev 0.559

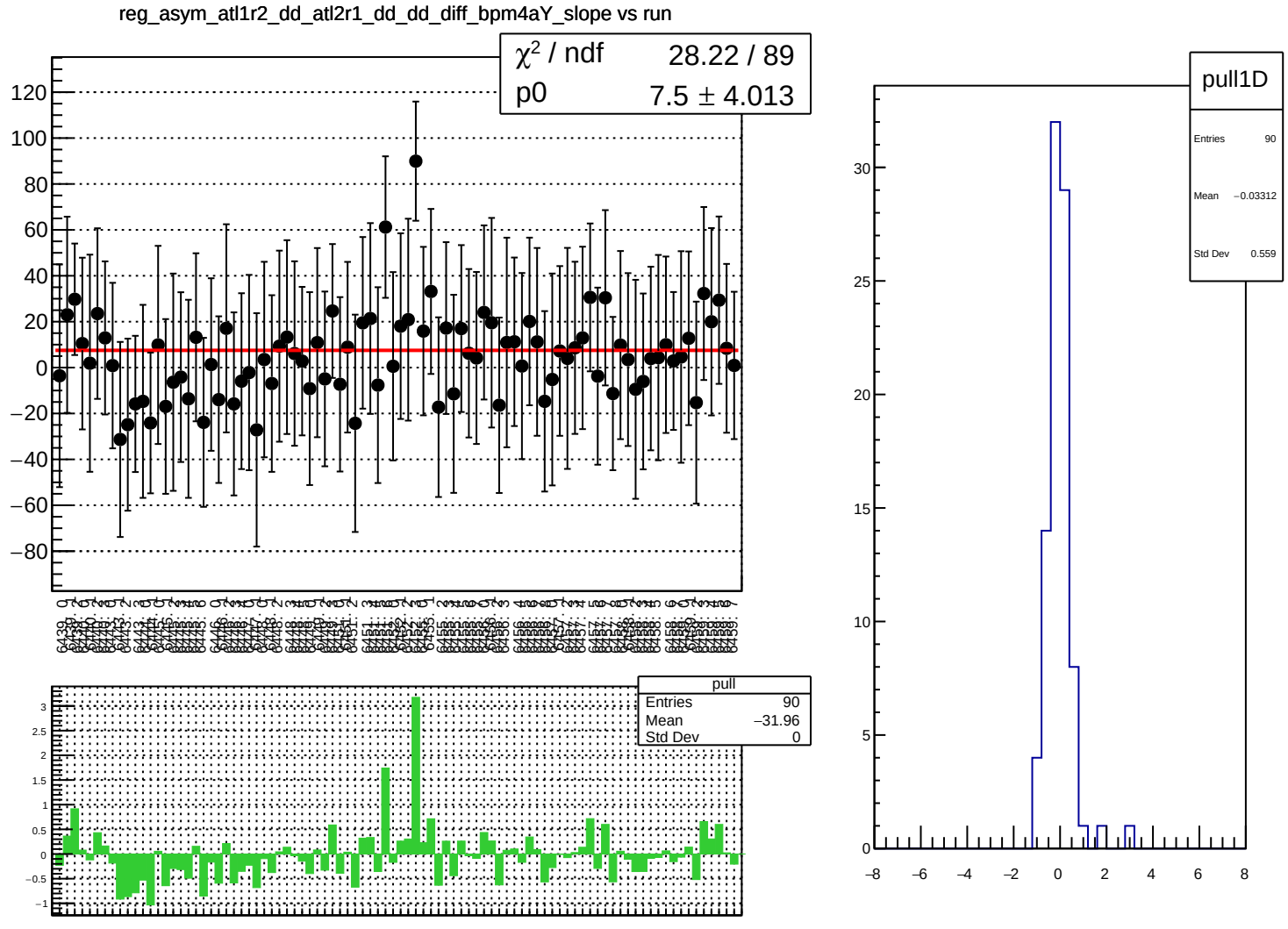

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 73.74 / 89
p0 −291 ± 3.481
pull
Entries 90
Mean 608
Std Dev 0
pull1D
Entries 90
Mean −0.02731
Std Dev 0.9047

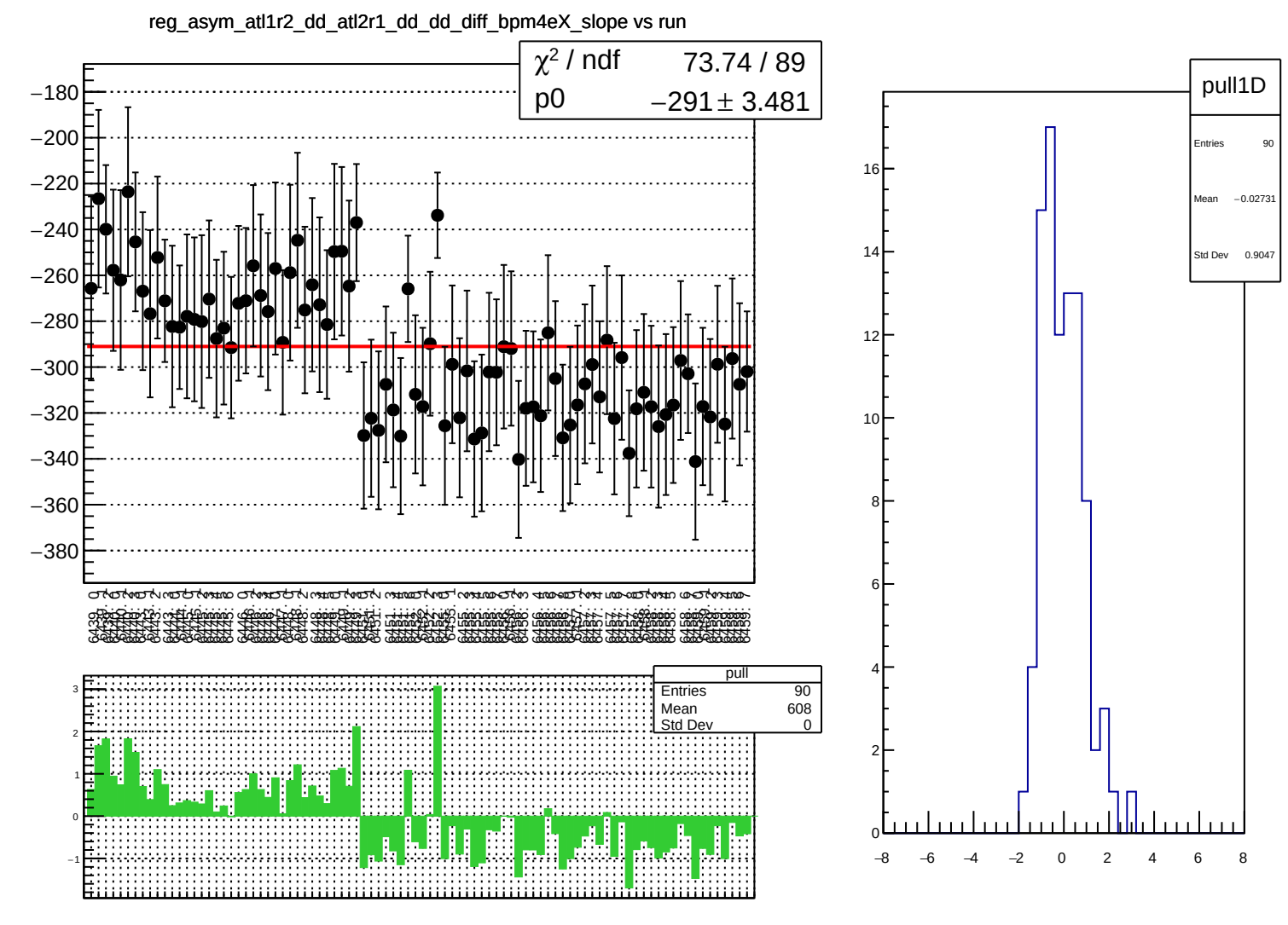

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 39.76 / 89
p0 −118.3 ± 4.021
−50
−100
−150
−200
−250
pull
Entries 90
Mean −147.1
Std Dev 0
1
0
−1
−2
−3
pull1D
Entries 90
Mean 0.03412
Std Dev 0.6638
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

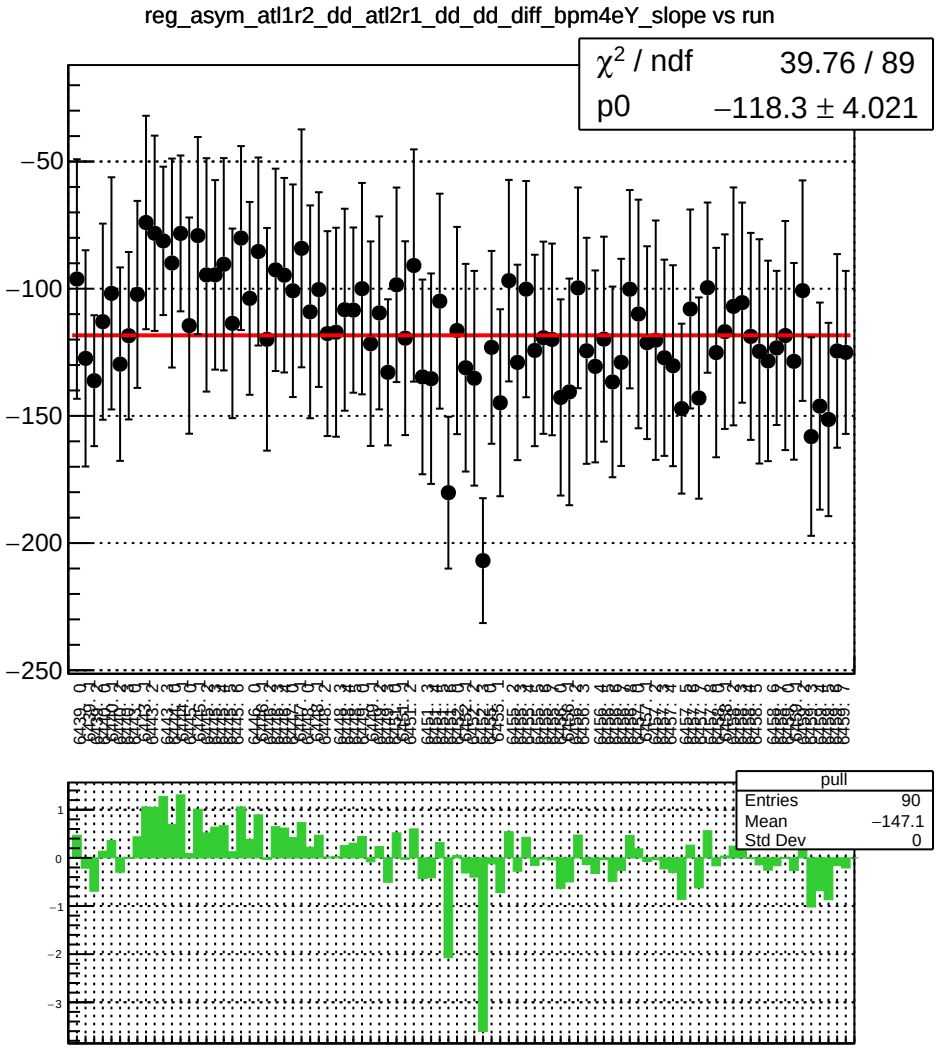

reg_asym_at1_avg_at2_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 51.04 / 89
p0 128.3 ± 0.1635
134
132
130
128
126
124
pull
Entries 90
Mean 902.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 90
Mean 0.007253
Std Dev 0.753
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

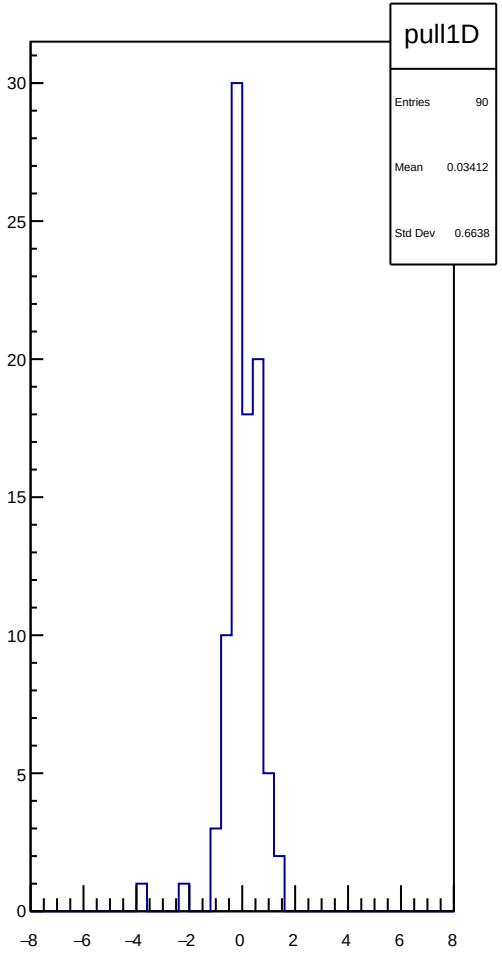

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 63.23 / 89
p0 251.6 ± 3.449
350
300
250
200
150
pull
Entries 90
Mean 409.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

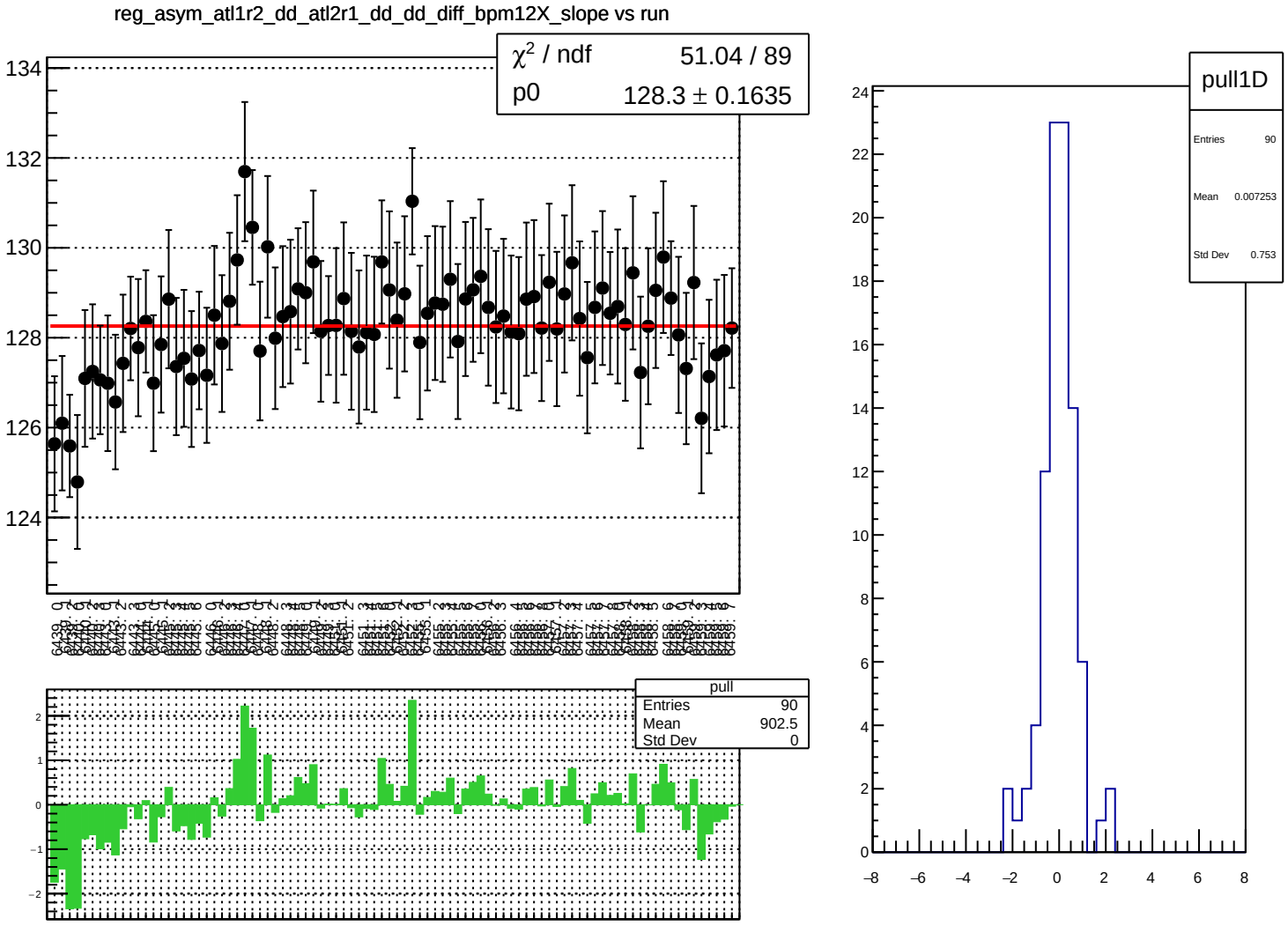

pull1D
Entries 90
Mean 0.0382
Std Dev 0.8373
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

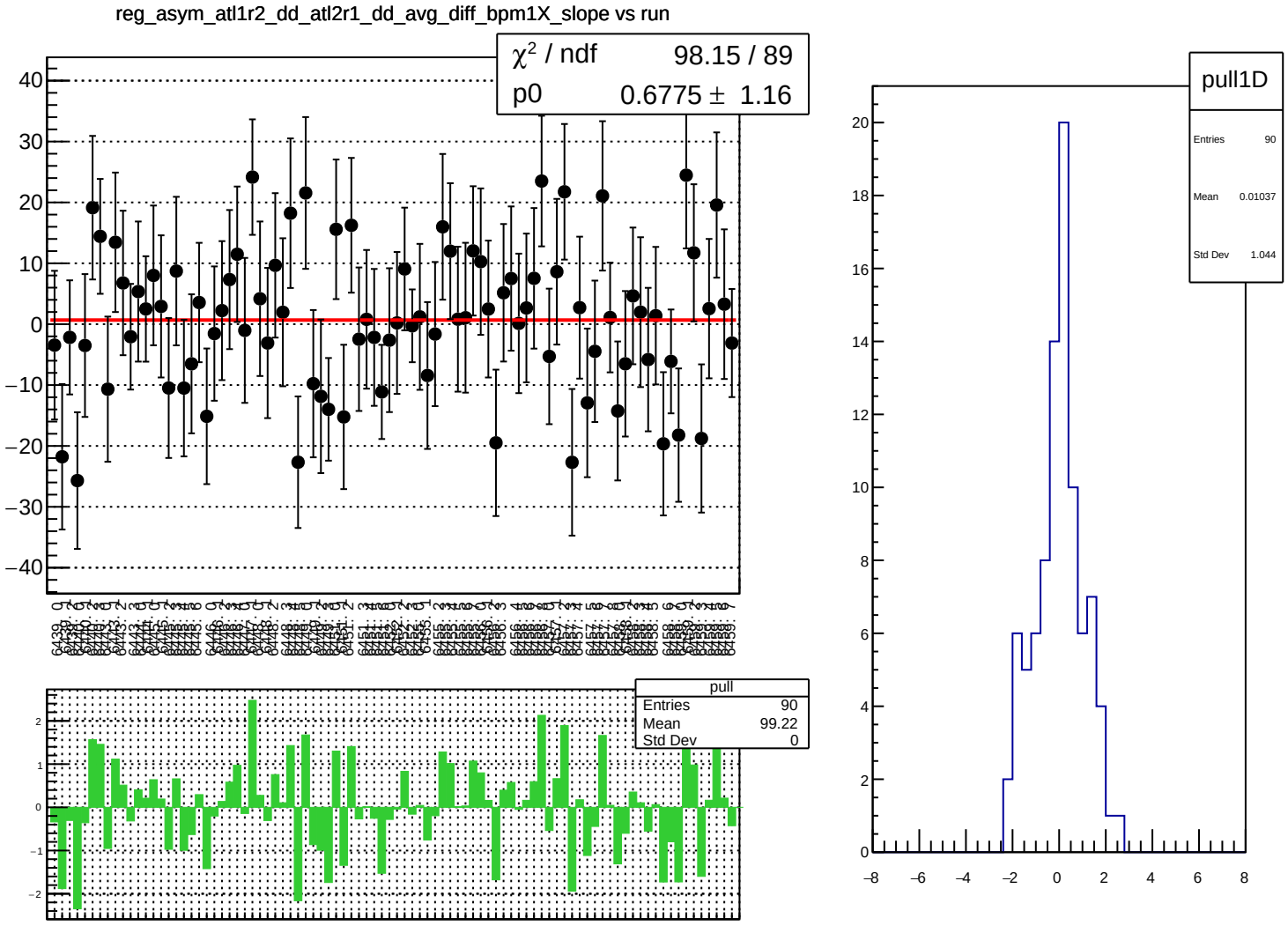

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 28.22 / 89
p0 7.5 ± 4.013
pull
Entries 90
Mean −31.96
Std Dev 0
pull1D
Entries 90
Mean −0.03312
Std Dev 0.559

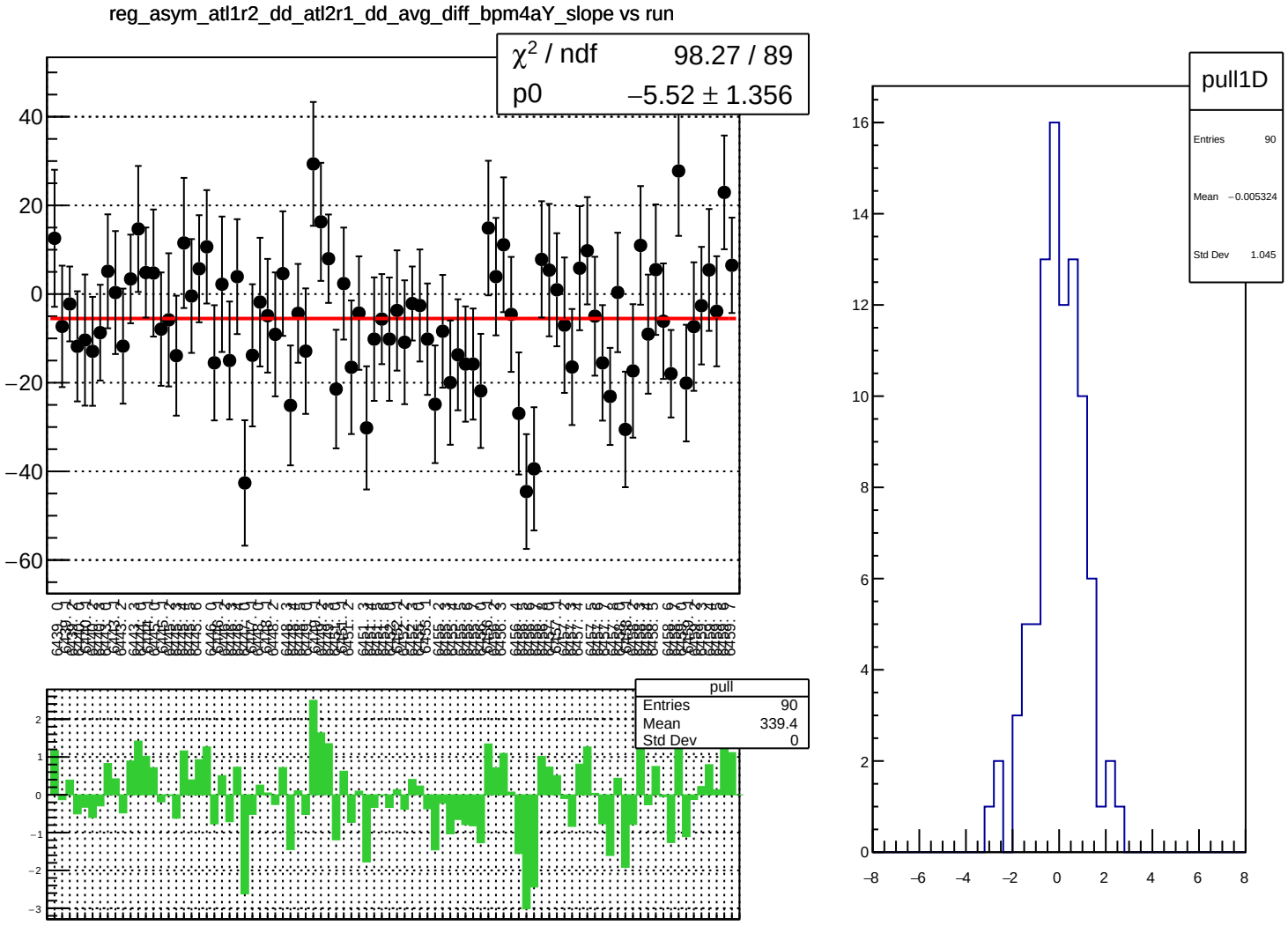

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 73.74 / 89
p0 −291 ± 3.481
pull
Entries 90
Mean 608
Std Dev 0
pull1D
Entries 90
Mean −0.02731
Std Dev 0.9047

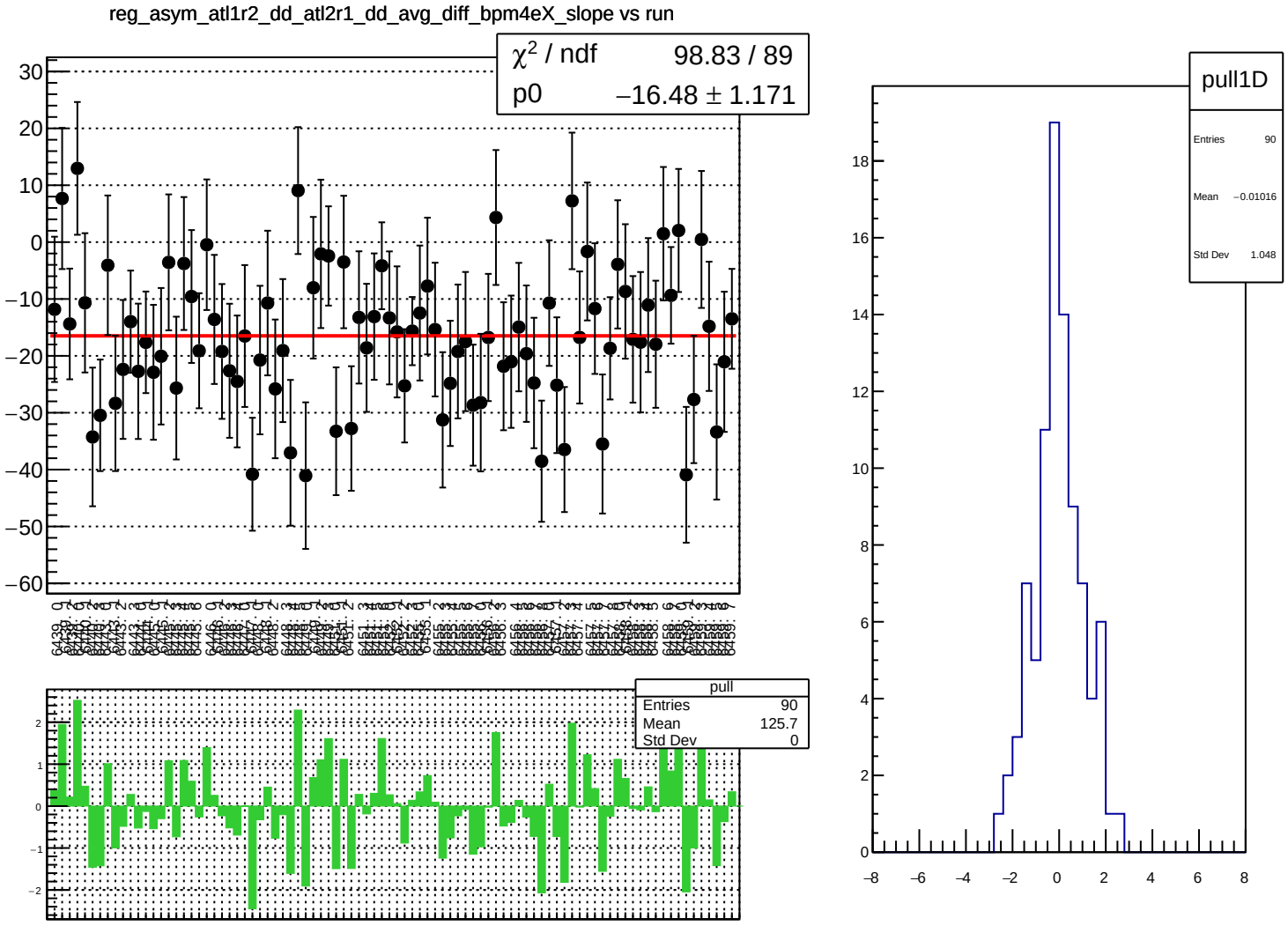

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 39.76 / 89
p0 −118.3 ± 4.021
pull
Entries 90
Mean −147.1
Std Dev 0

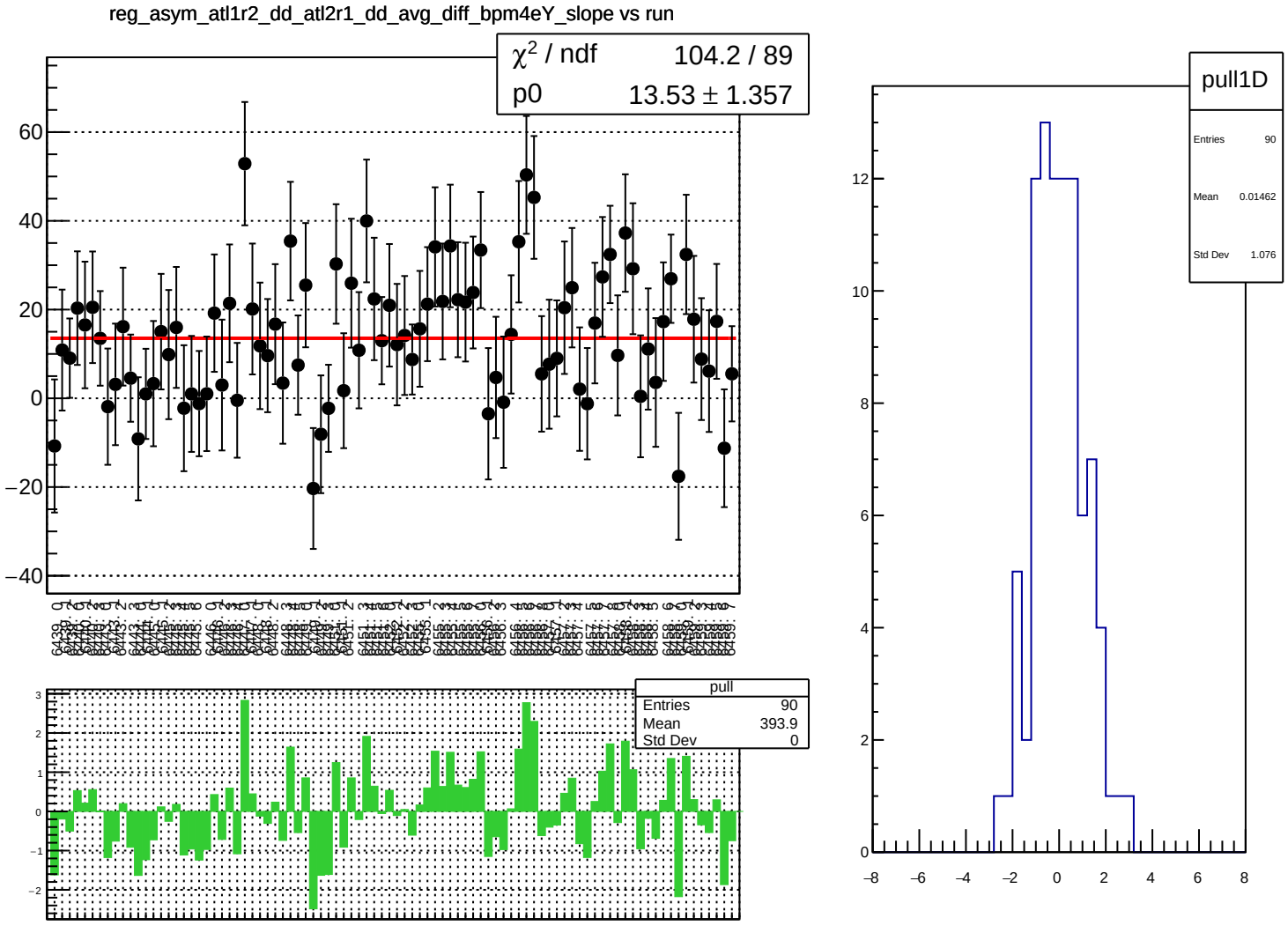

pull1D
Entries 90
Mean 0.03412
Std Dev 0.6638

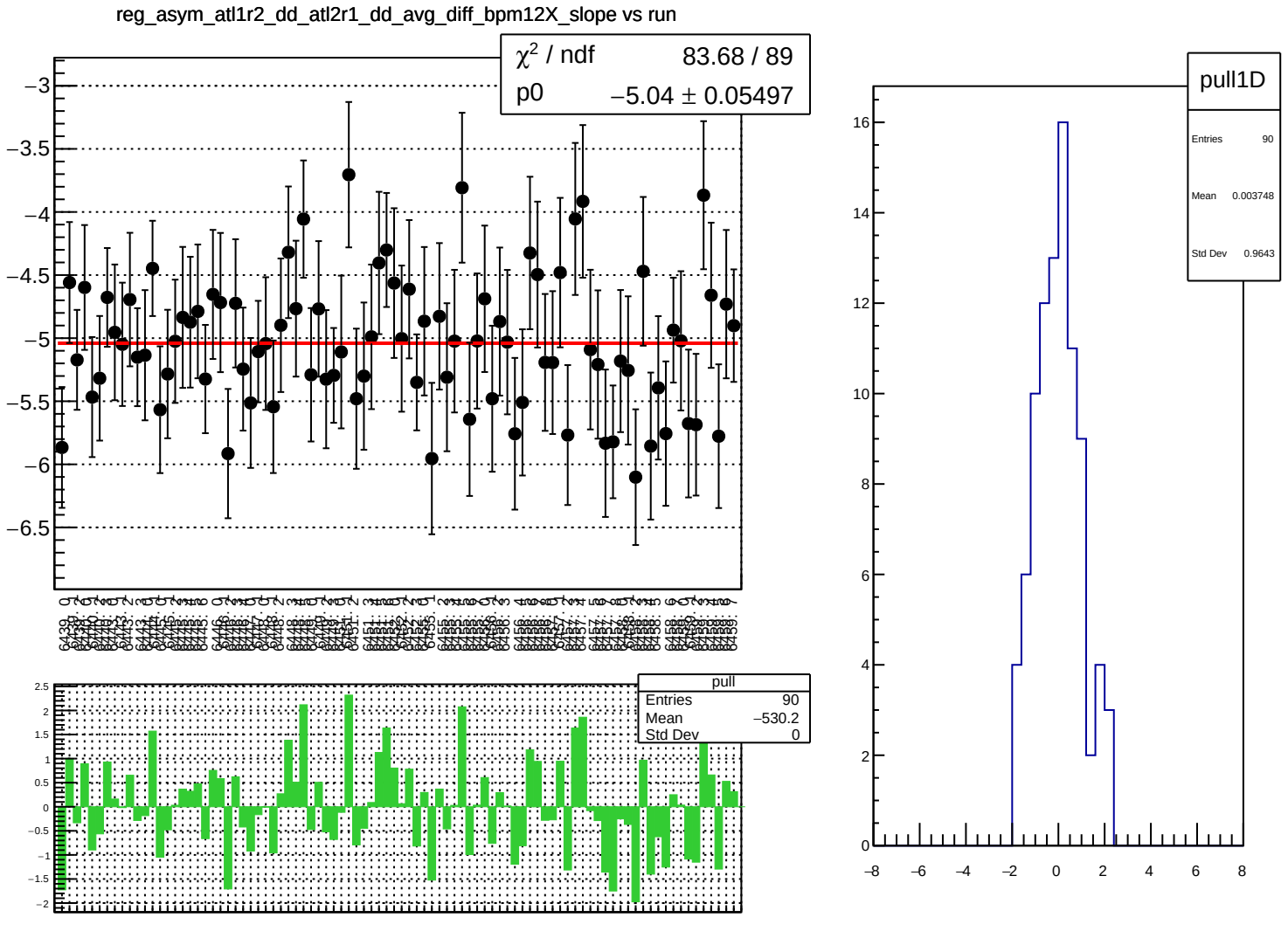

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 51.04 / 89
p0 128.3 ± 0.1635
134
132
130
128
126
124
pull
Entries 90
Mean 902.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 90
Mean 0.007253
Std Dev 0.753
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

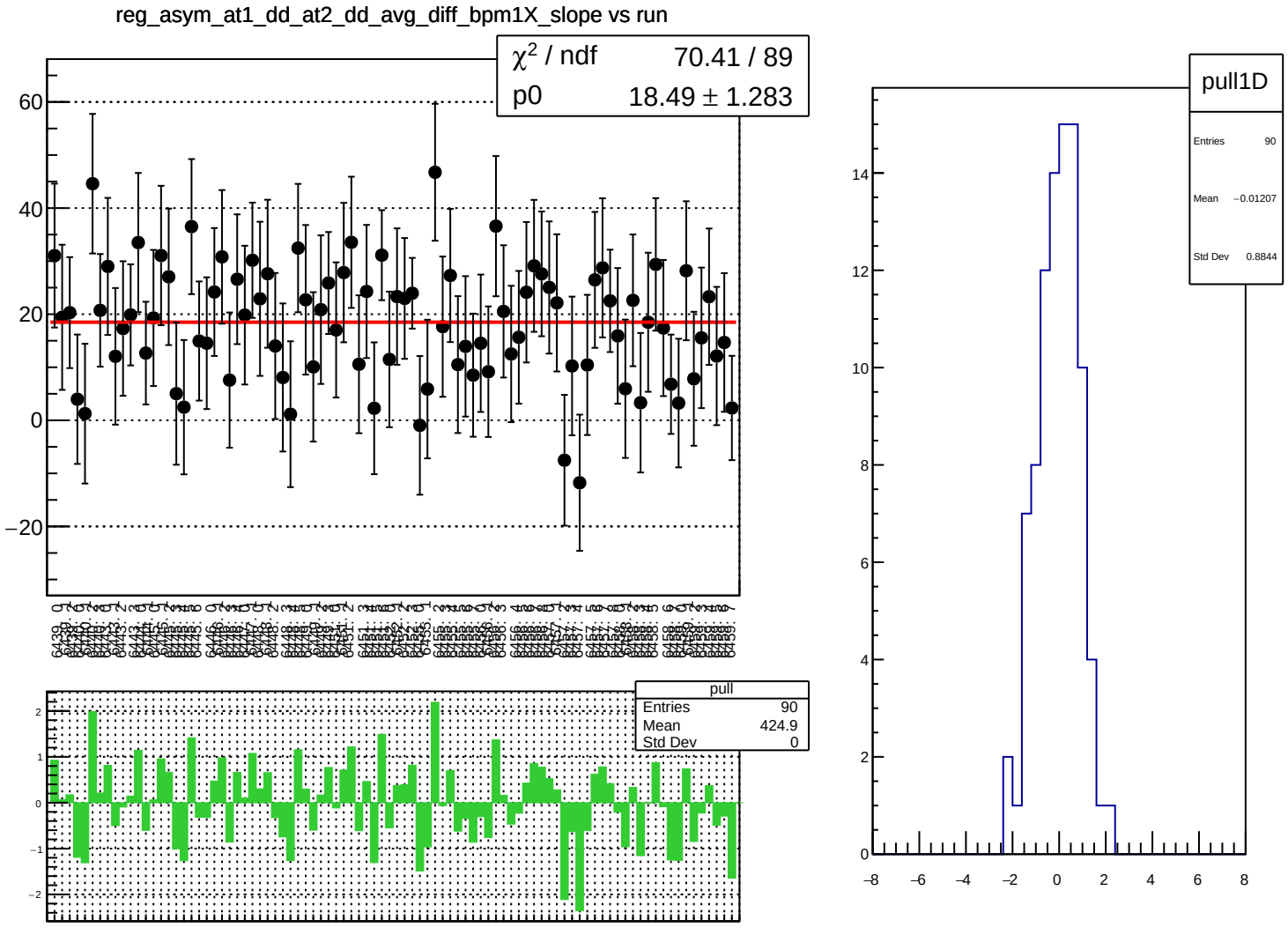

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 98.15 / 89
p0 0.6775 ± 1.16
pull
Entries 90
Mean 99.22
Std Dev 0
pull1D
Entries 90
Mean 0.01037
Std Dev 1.044

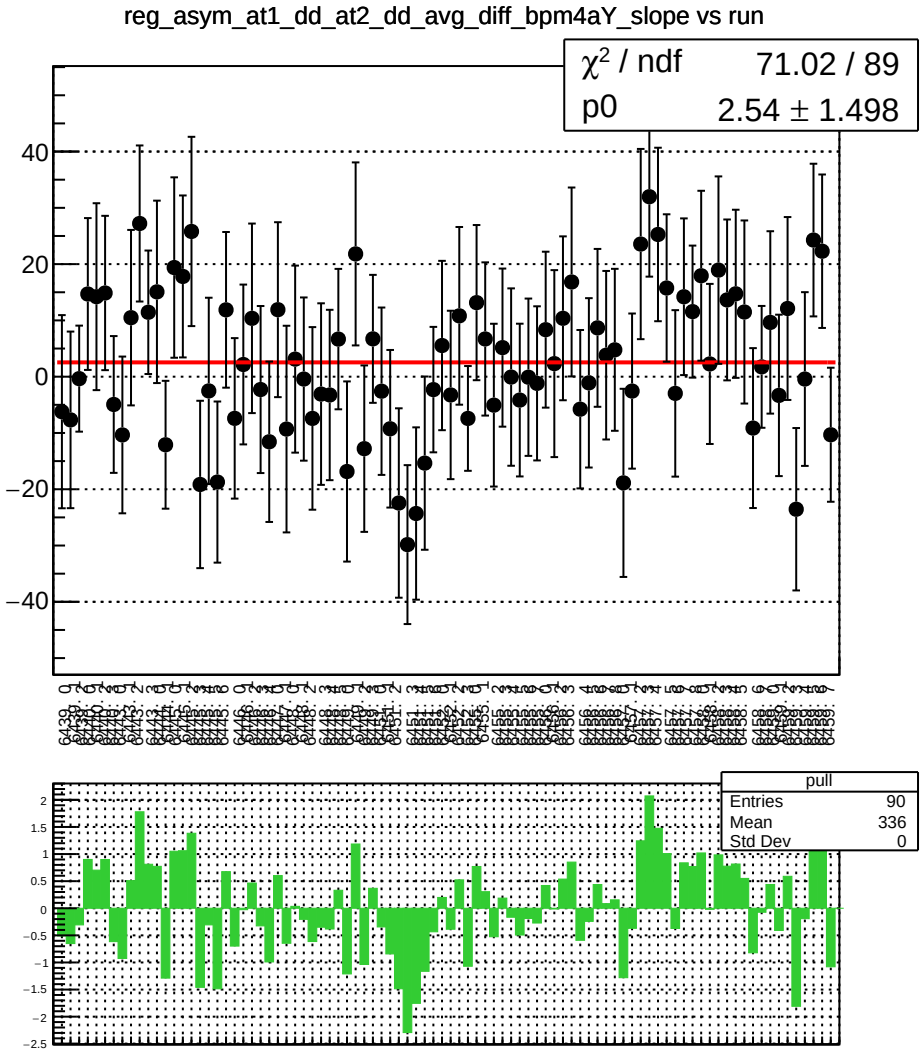

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 98.27 / 89
p0 −5.52 ± 1.356
pull
Entries 90
Mean 339.4
Std Dev 0
pull1D
Entries 90
Mean −0.005324
Std Dev 1.045

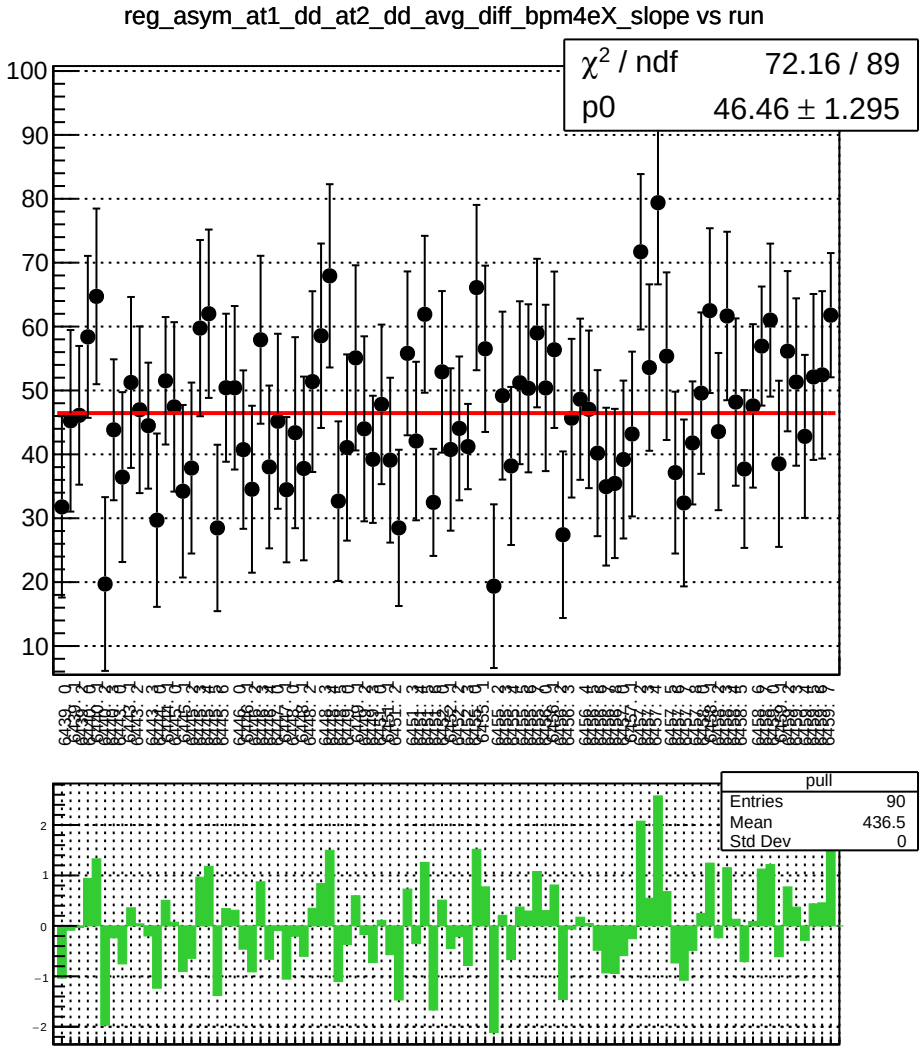

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 98.83 / 89
p0 −16.48 ± 1.171
pull
Entries 90
Mean 125.7
Std Dev 0
pull1D
Entries 90
Mean −0.01016
Std Dev 1.048

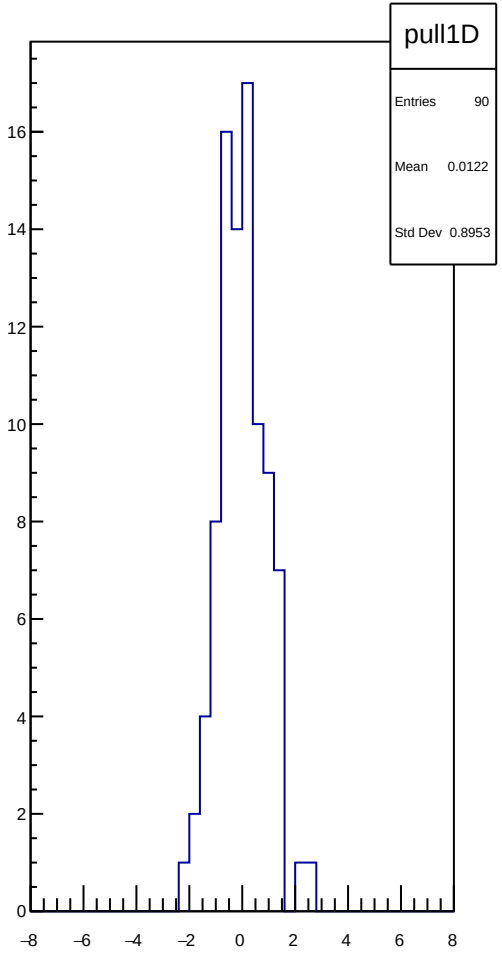

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 104.2 / 89
p0 13.53 ± 1.357
pull
Entries 90
Mean 393.9
Std Dev 0
pull1D
Entries 90
Mean 0.01462
Std Dev 1.076

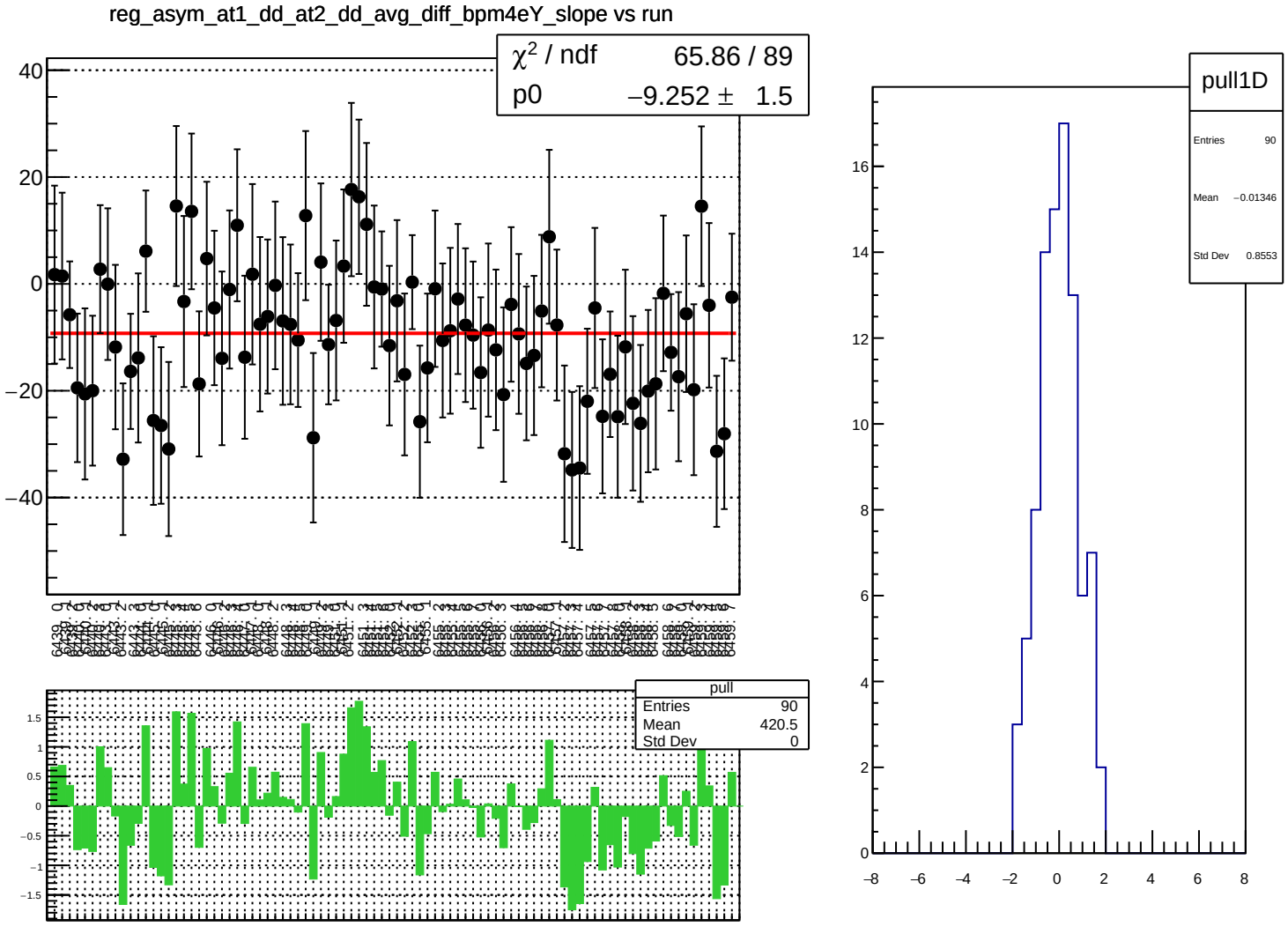

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 83.68 / 89
p0 −5.04 ± 0.05497
pull
Entries 90
Mean −530.2
Std Dev 0
pull1D
Entries 90
Mean 0.003748
Std Dev 0.9643

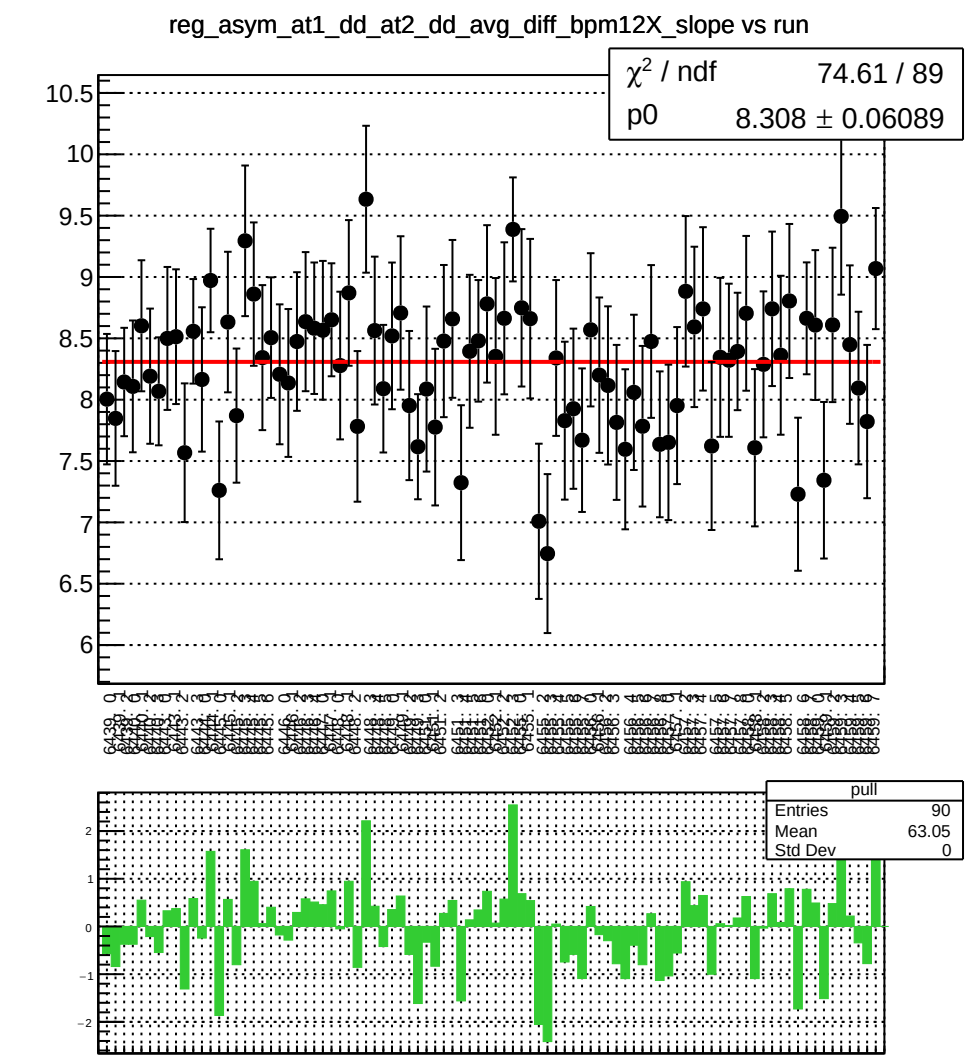

reg_asym_at1_dd_at2_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 70.41 / 89
p0 18.49 ± 1.283
pull
Entries 90
Mean 424.9
Std Dev 0
pull1D
Entries 90
Mean −0.01207
Std Dev 0.8844

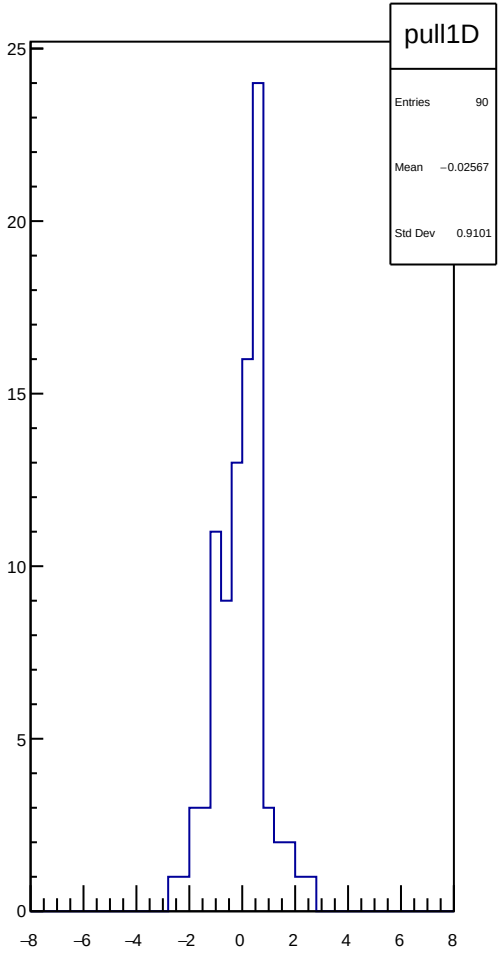

reg_asym_at1_dd_at2_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 71.02 / 89
p0 2.54 ± 1.498
pull
Entries 90
Mean 336
Std Dev 0
pull1D
Entries 90
Mean 0.0103
Std Dev 0.8883

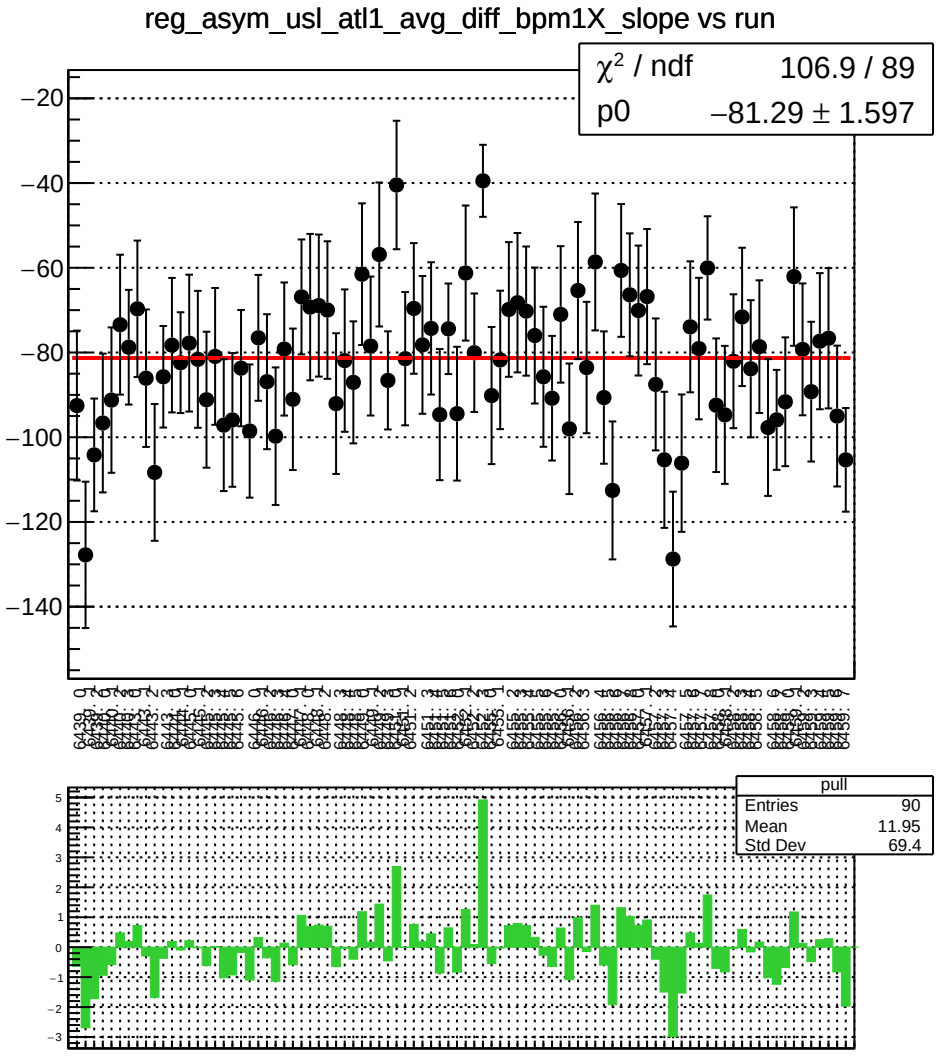

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 72.16 / 89
p0 46.46 ± 1.295
pull
Entries 90
Mean 436.5
Std Dev 0

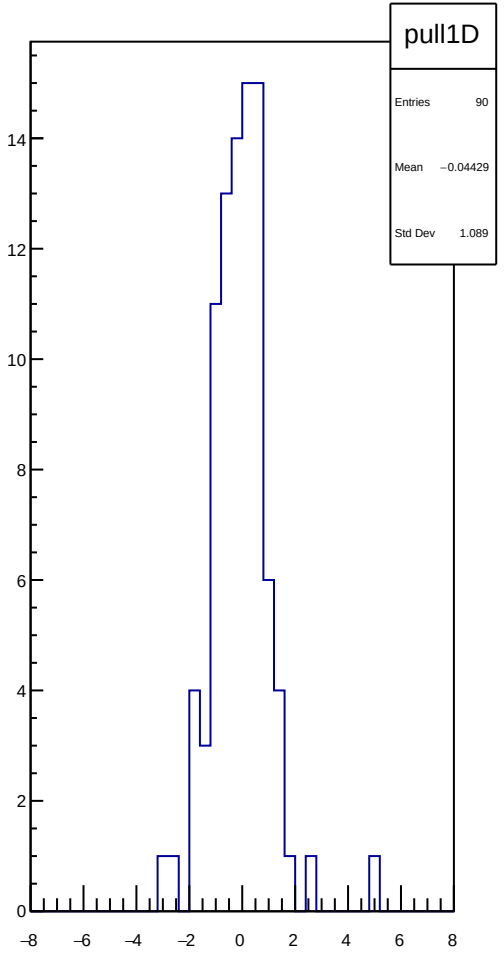

pull1D
Entries 90
Mean 0.0122
Std Dev 0.8953

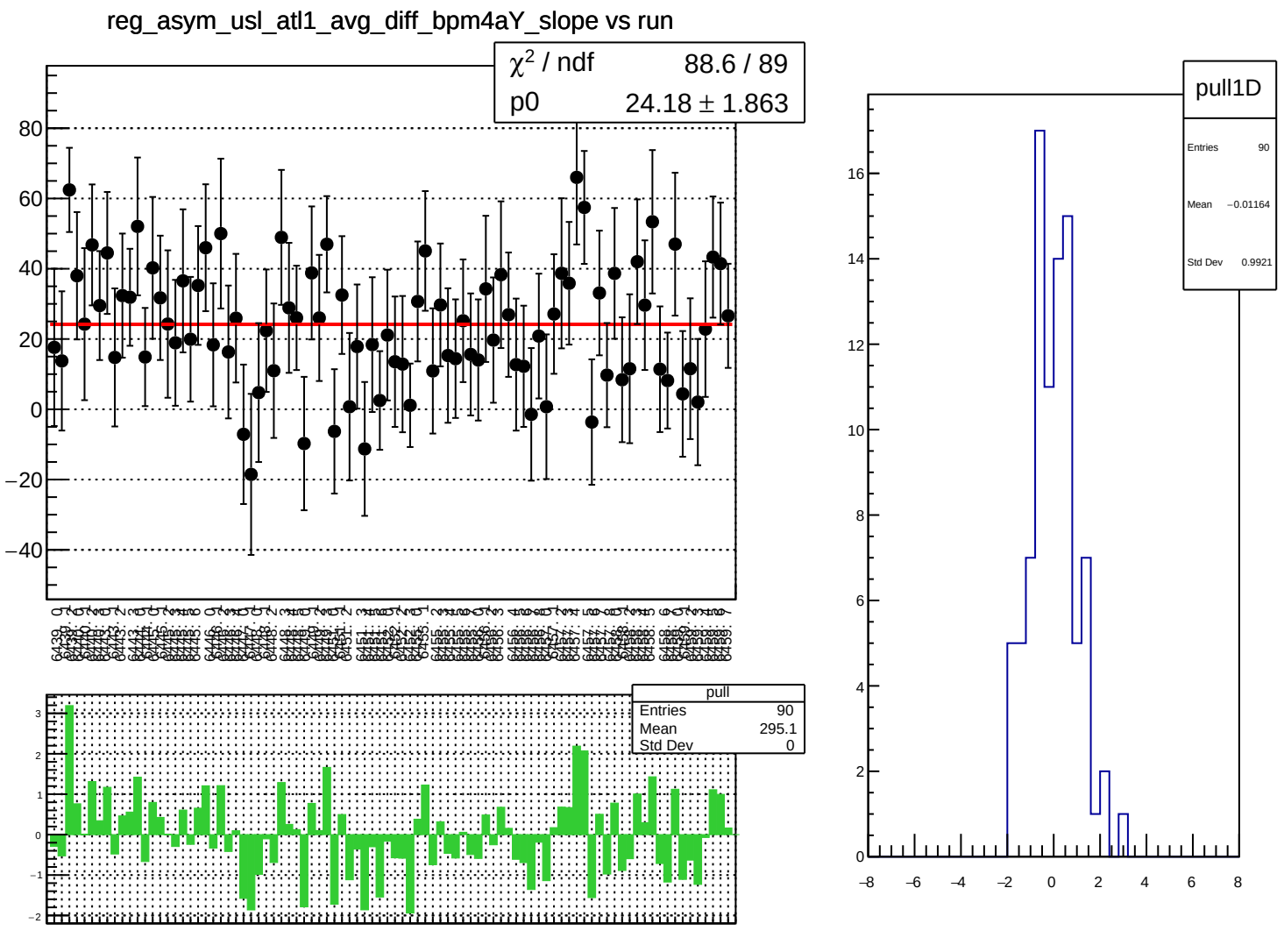

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 65.86 / 89
p0 −9.252 ± 1.5
40
20
0
−20
−40
pull
Entries 90
Mean 420.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 90
Mean −0.01346
Std Dev 0.8553
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

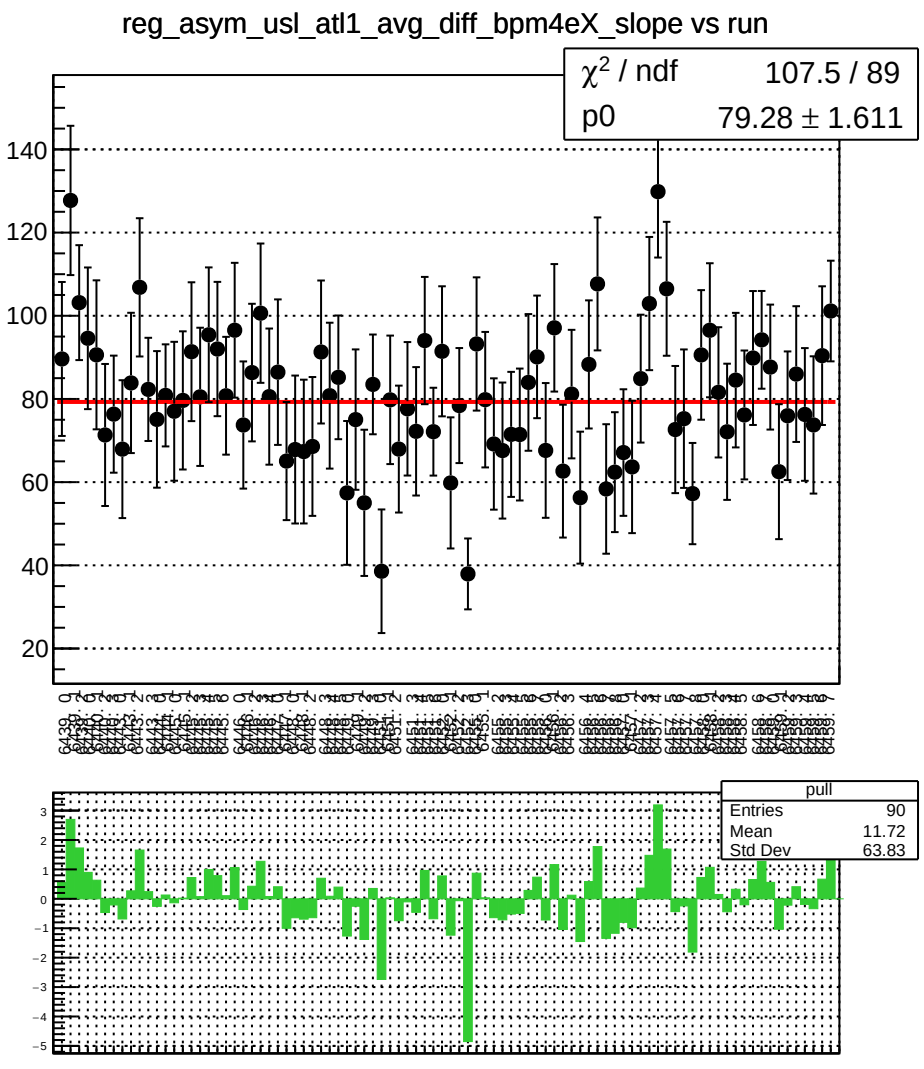

reg_asym_at1_dd_at2_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 74.61 / 89
p0 8.308 ± 0.06089
pull
Entries 90
Mean 63.05
Std Dev 0

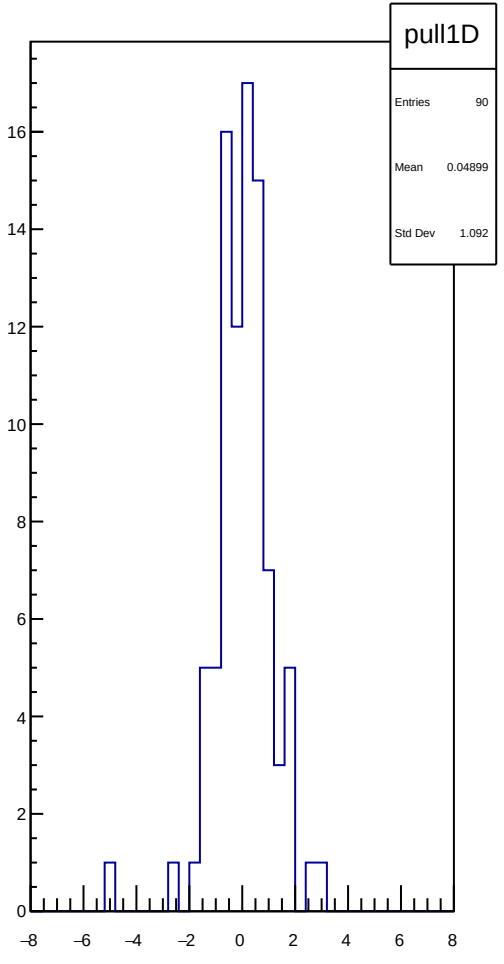

pull1D
Entries 90
Mean −0.02567
Std Dev 0.9101

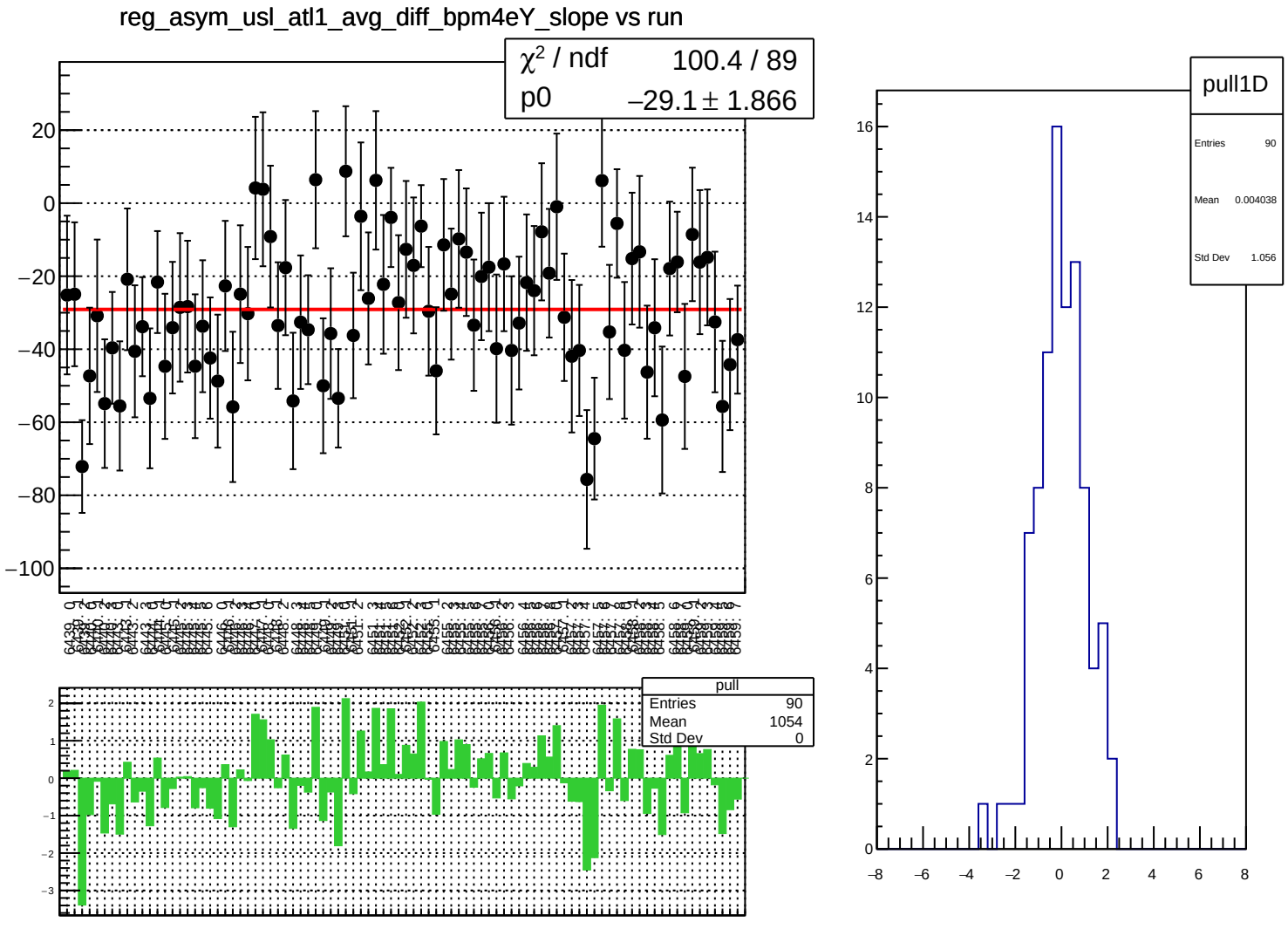

reg_asym_usl_atl1_avg_diff_bpm1X_slope vs run
χ² / ndf 106.9 / 89
p0 −81.29 ± 1.597
−20
−40
−60
−80
−100
−120
−140
pull
Entries 90
Mean 11.95
Std Dev 69.4
5
4
3
2
1
0
−1
−2
−3

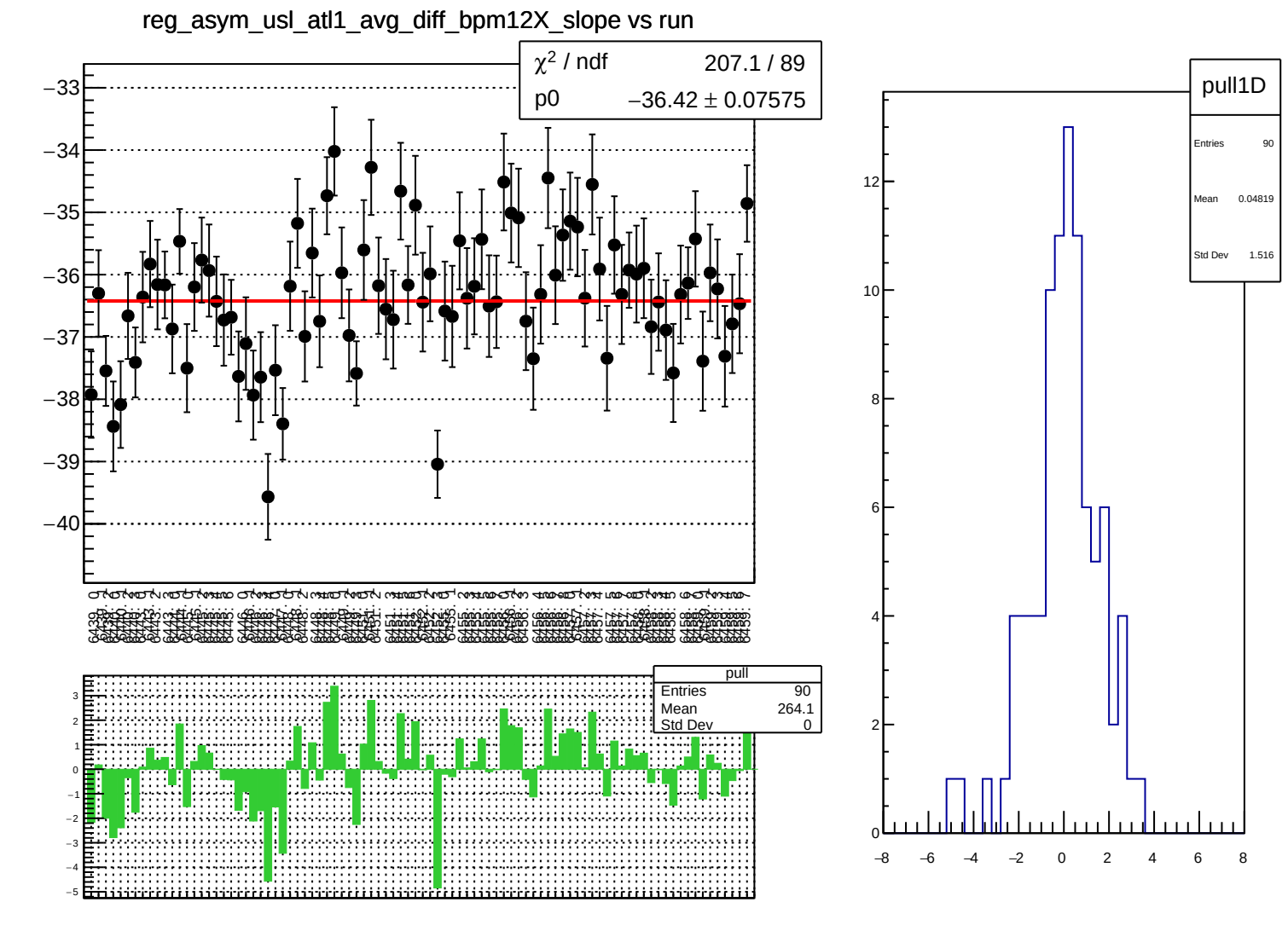

pull1D
Entries 90
Mean −0.04429
Std Dev 1.089
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

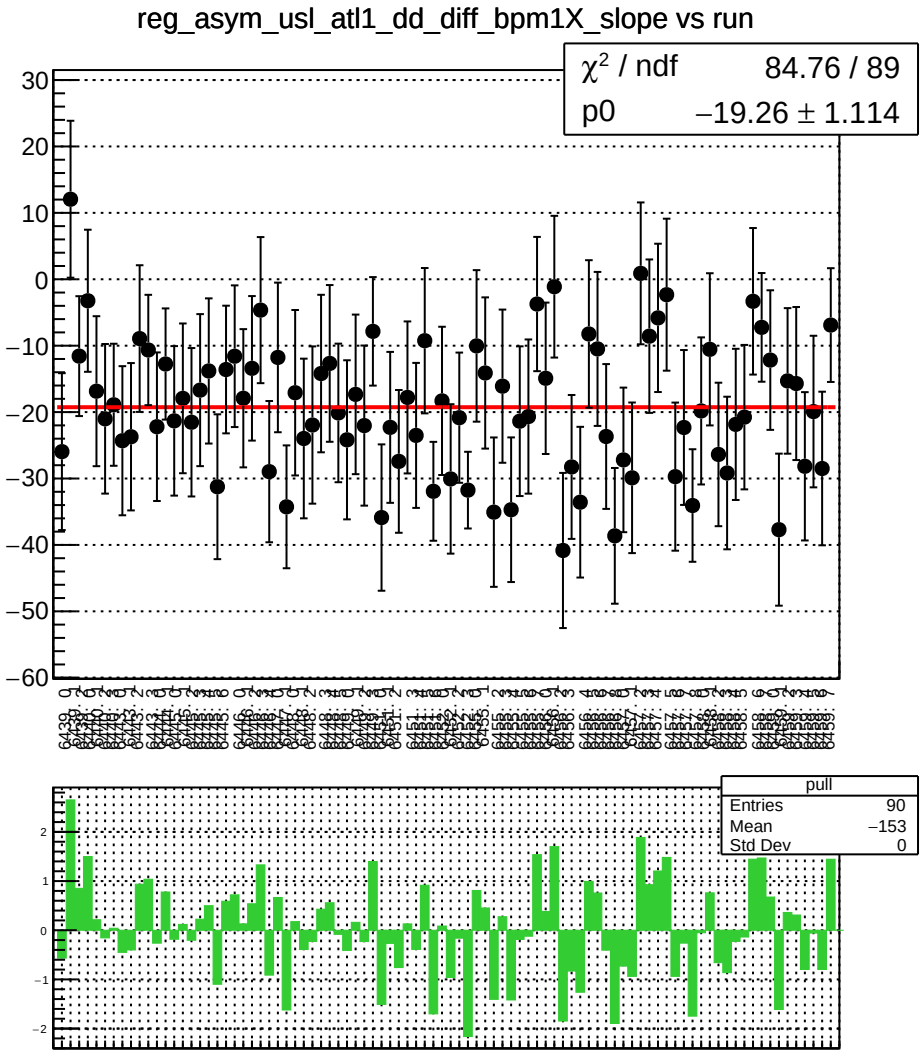

reg_asym_usl_atl1_avg_diff_bpm4aY_slope vs run
χ² / ndf 88.6 / 89
p0 24.18 ± 1.863
pull
Entries 90
Mean 295.1
Std Dev 0
pull1D
Entries 90
Mean −0.01164
Std Dev 0.9921

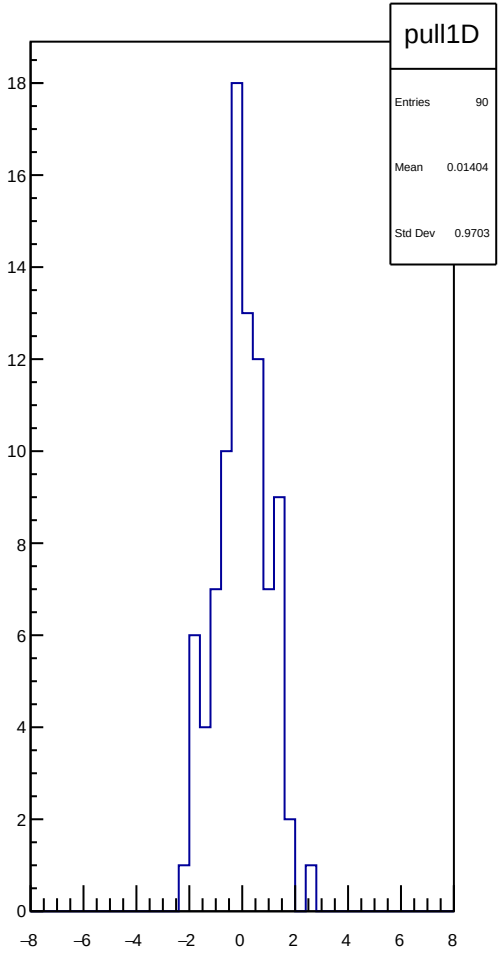

reg_asym_usl_atl1_avg_diff_bpm4eX_slope vs run
χ² / ndf 107.5 / 89
p0 79.28 ± 1.611
pull
Entries 90
Mean 11.72
Std Dev 63.83

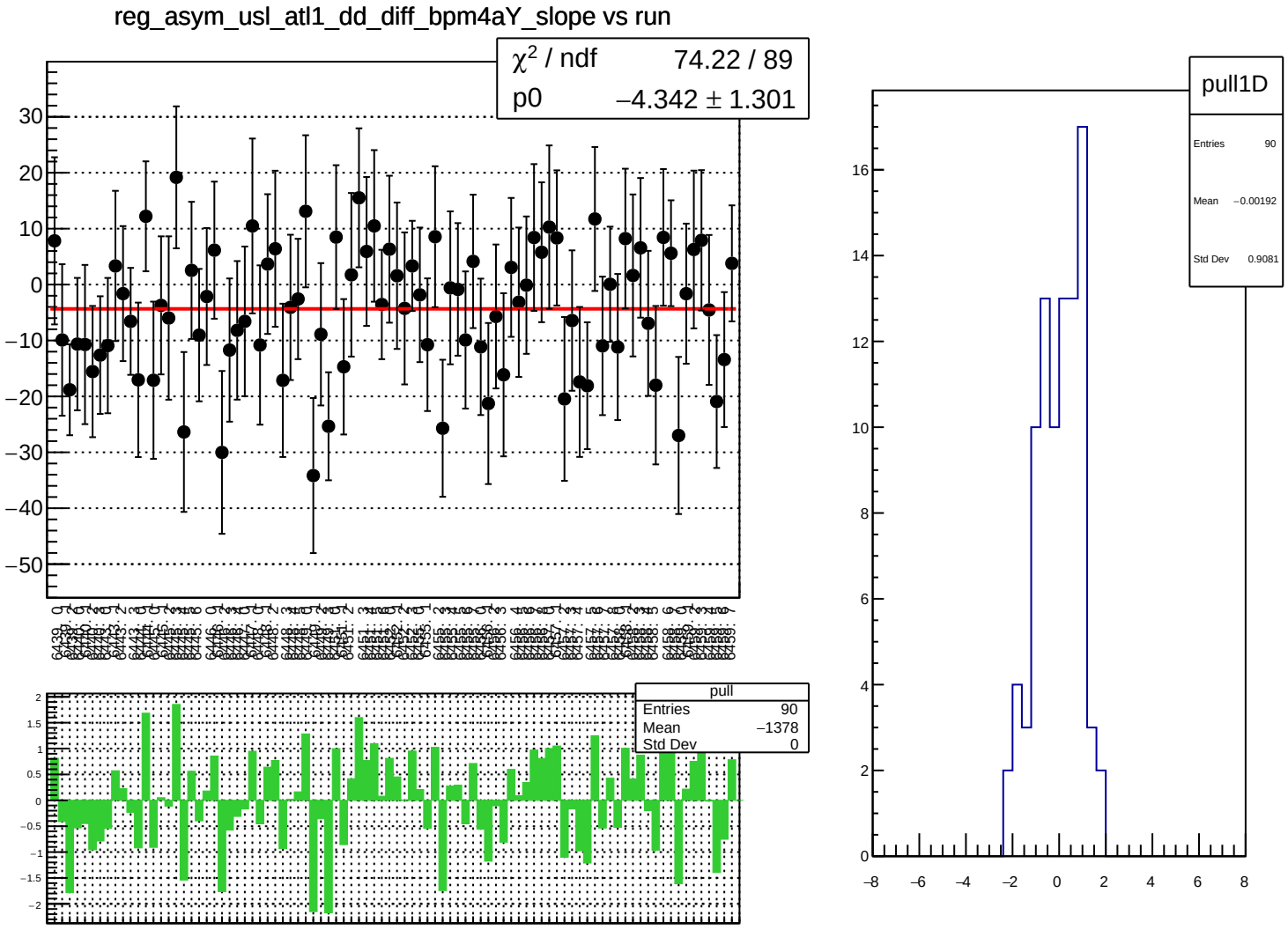

pull1D
Entries 90
Mean 0.04899
Std Dev 1.092

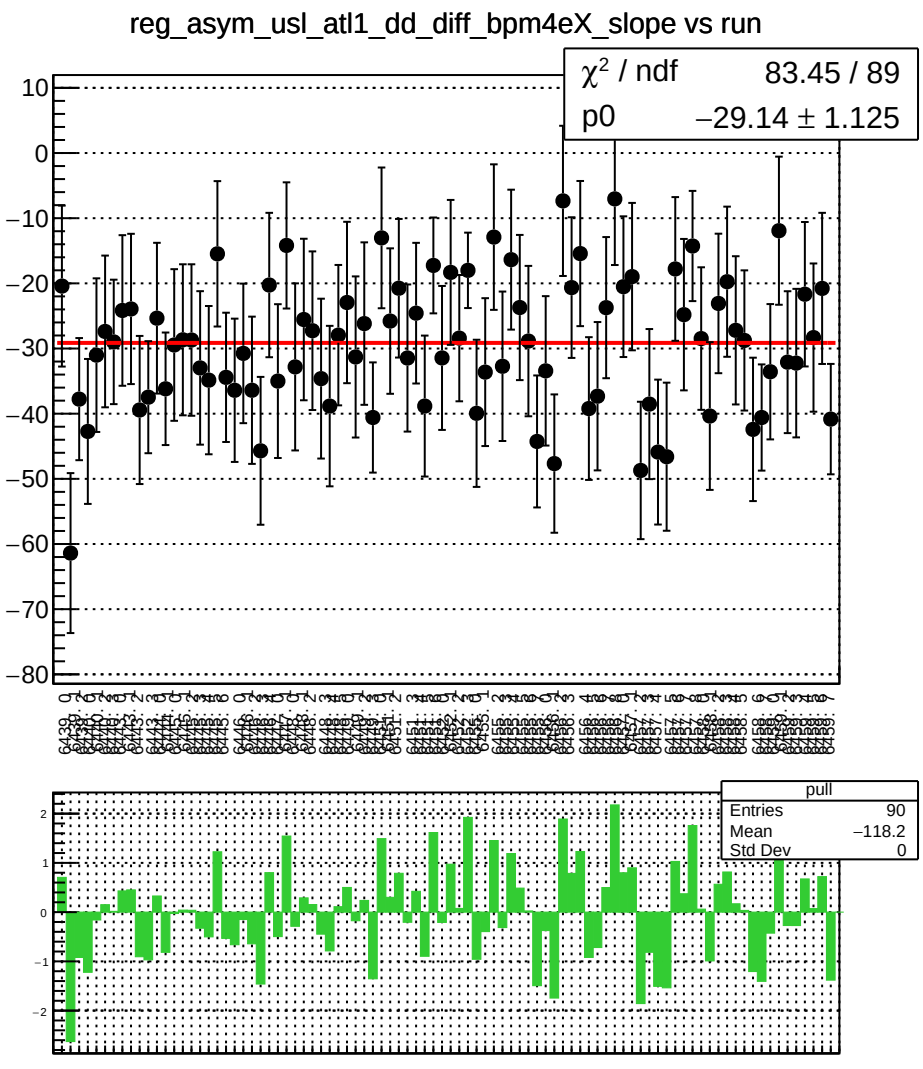

reg_asym_usl_atl1_avg_diff_bpm4eY_slope vs run
χ² / ndf 100.4 / 89
p0 −29.1 ± 1.866
pull
Entries 90
Mean 1054
Std Dev 0
pull1D
Entries 90
Mean 0.004038
Std Dev 1.056

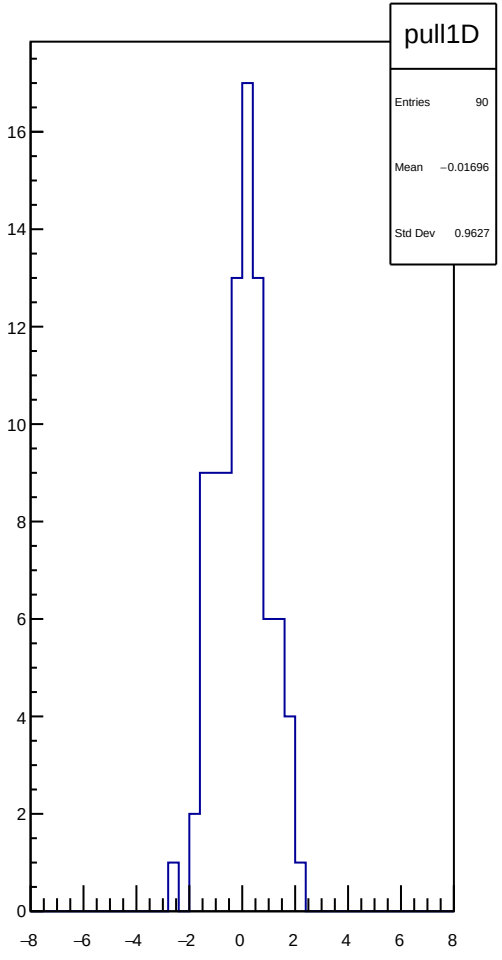

reg_asym_usl_atl1_avg_diff_bpm12X_slope vs run
χ² / ndf 207.1 / 89
p0 −36.42 ± 0.07575
pull
Entries 90
Mean 264.1
Std Dev 0
pull1D
Entries 90
Mean 0.04819
Std Dev 1.516

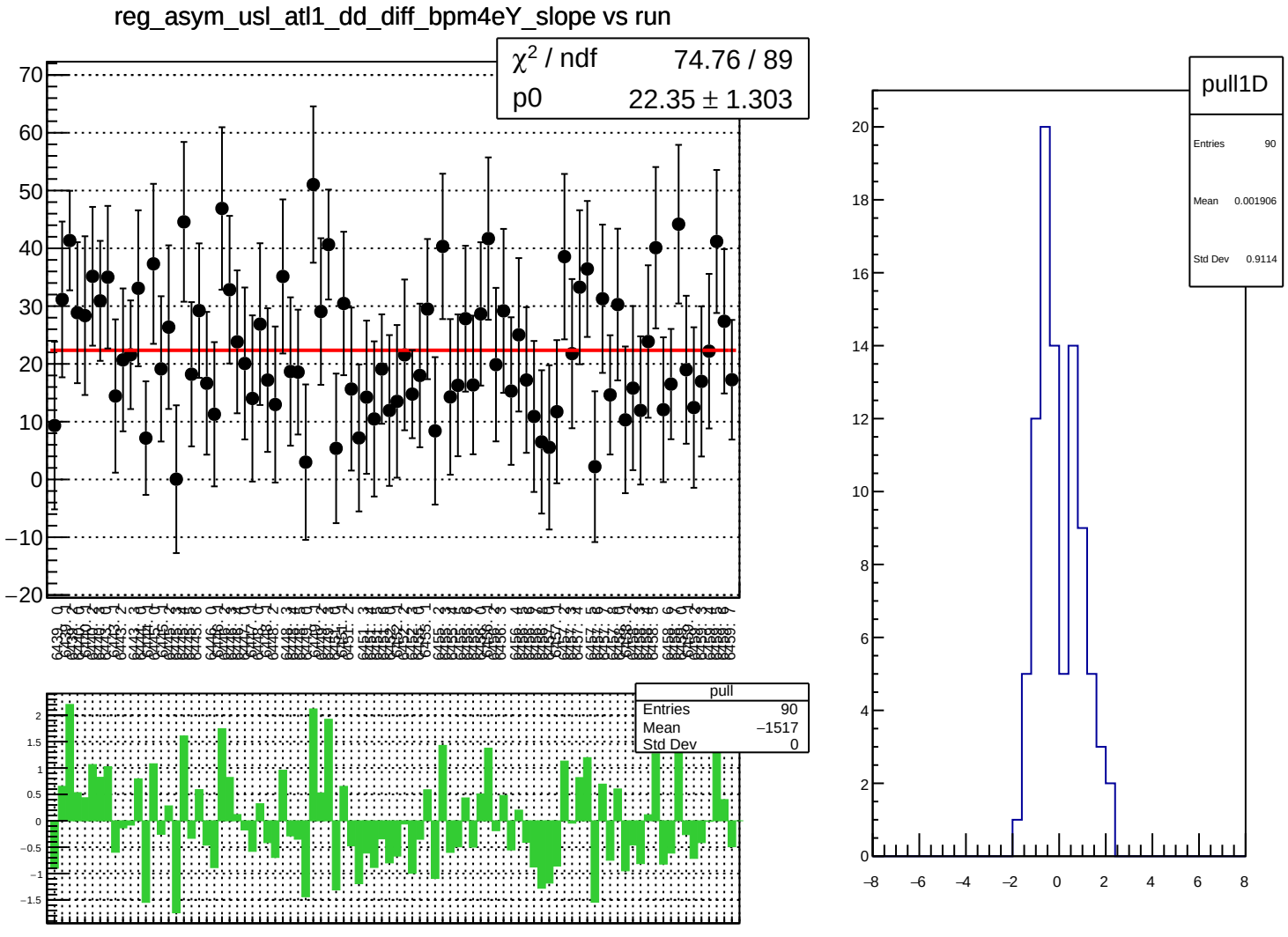

reg_asym_usl_atl1_dd_diff_bpm1X_slope vs run
χ² / ndf 84.76 / 89
p0 −19.26 ± 1.114
pull
Entries 90
Mean −153
Std Dev 0

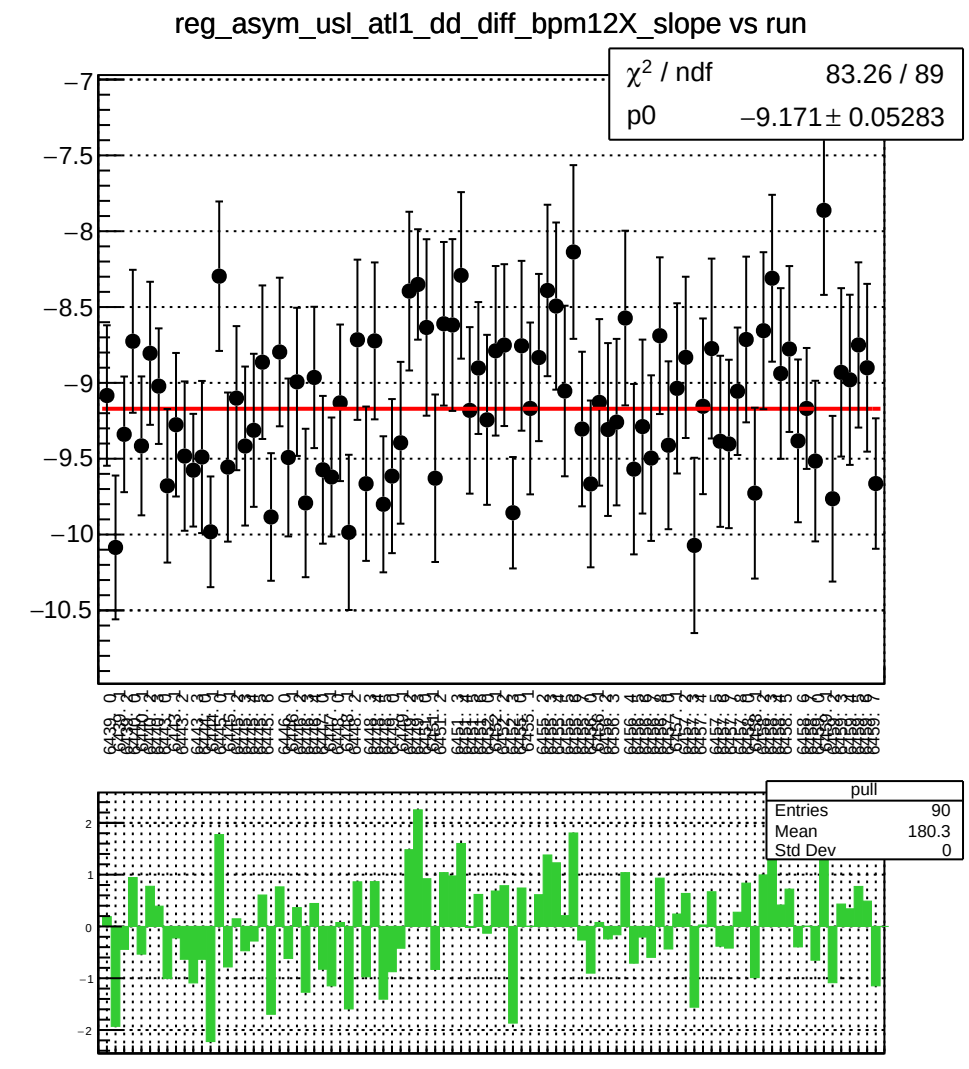

pull1D
Entries 90
Mean 0.01404
Std Dev 0.9703

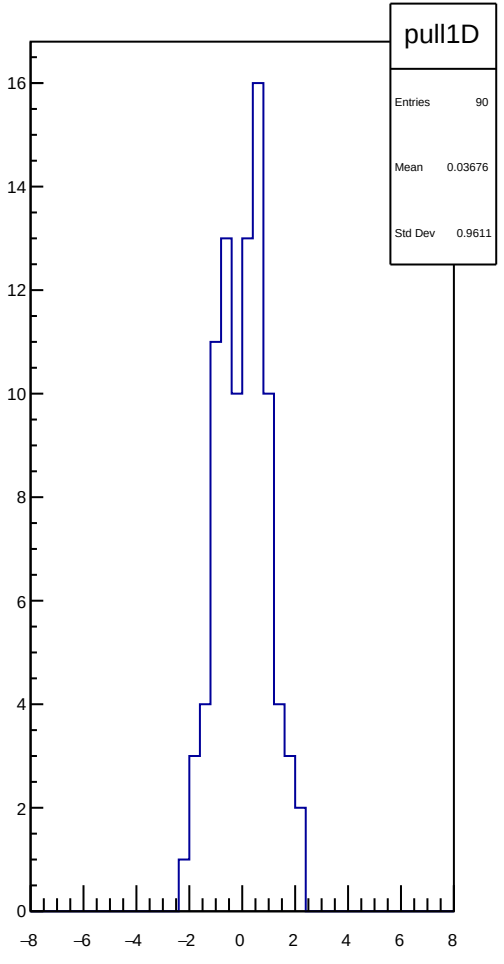

reg_asym_usl_atl1_dd_diff_bpm4aY_slope vs run
χ² / ndf 74.22 / 89
p0 −4.342 ± 1.301
pull
Entries 90
Mean −1378
Std Dev 0
pull1D
Entries 90
Mean −0.00192
Std Dev 0.9081

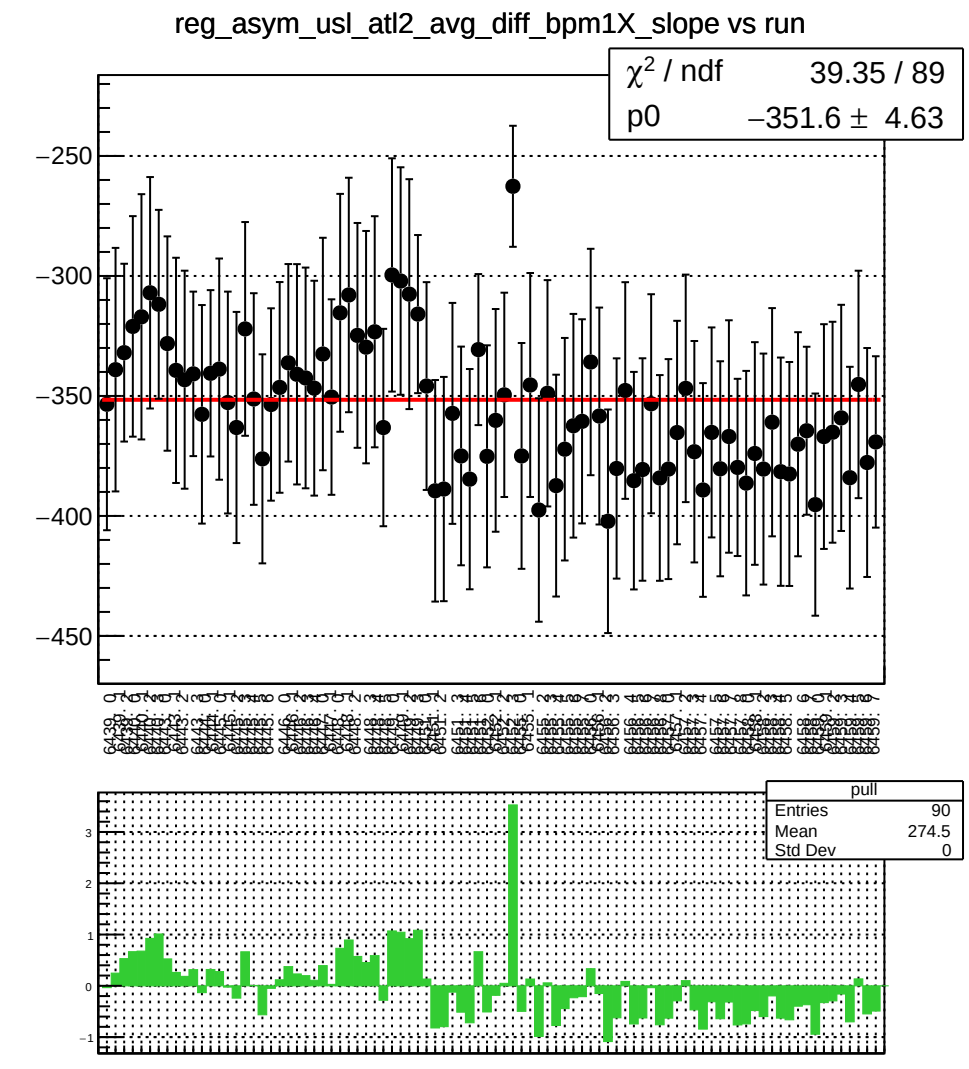

reg_asym_usl_atl1_dd_diff_bpm4eX_slope vs run
χ² / ndf 83.45 / 89
p0 −29.14 ± 1.125
pull
Entries 90
Mean −118.2
Std Dev 0

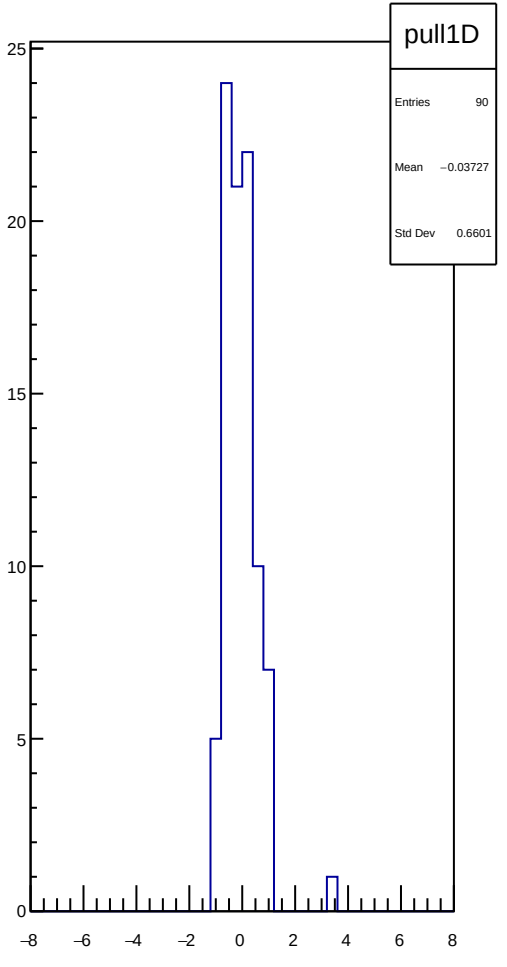

pull1D
Entries 90
Mean −0.01696
Std Dev 0.9627

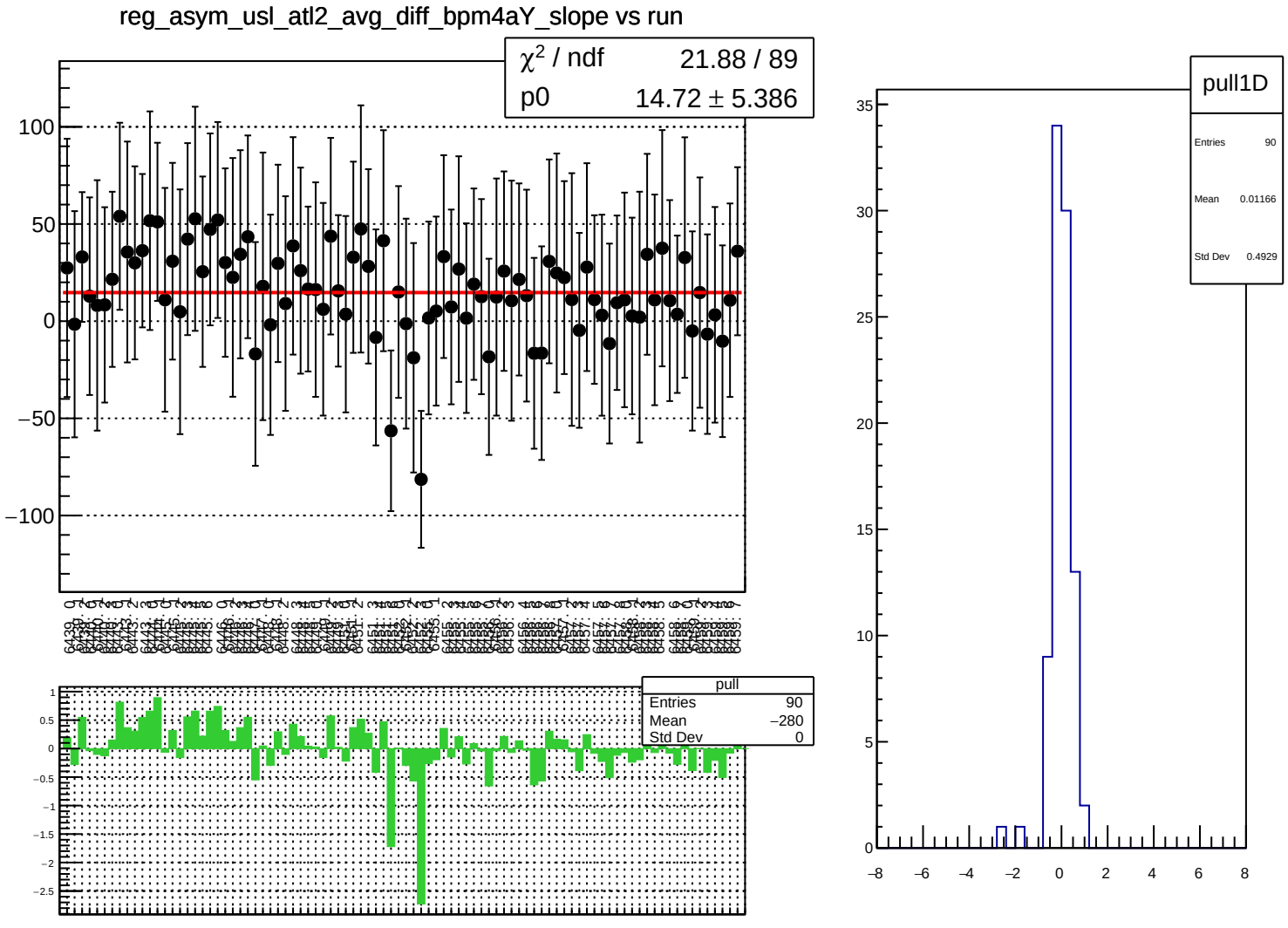

reg_asym_usl_atl1_dd_diff_bpm4eY_slope vs run
χ² / ndf 74.76 / 89
p0 22.35 ± 1.303
pull
Entries 90
Mean −1517
Std Dev 0
pull1D
Entries 90
Mean 0.001906
Std Dev 0.9114

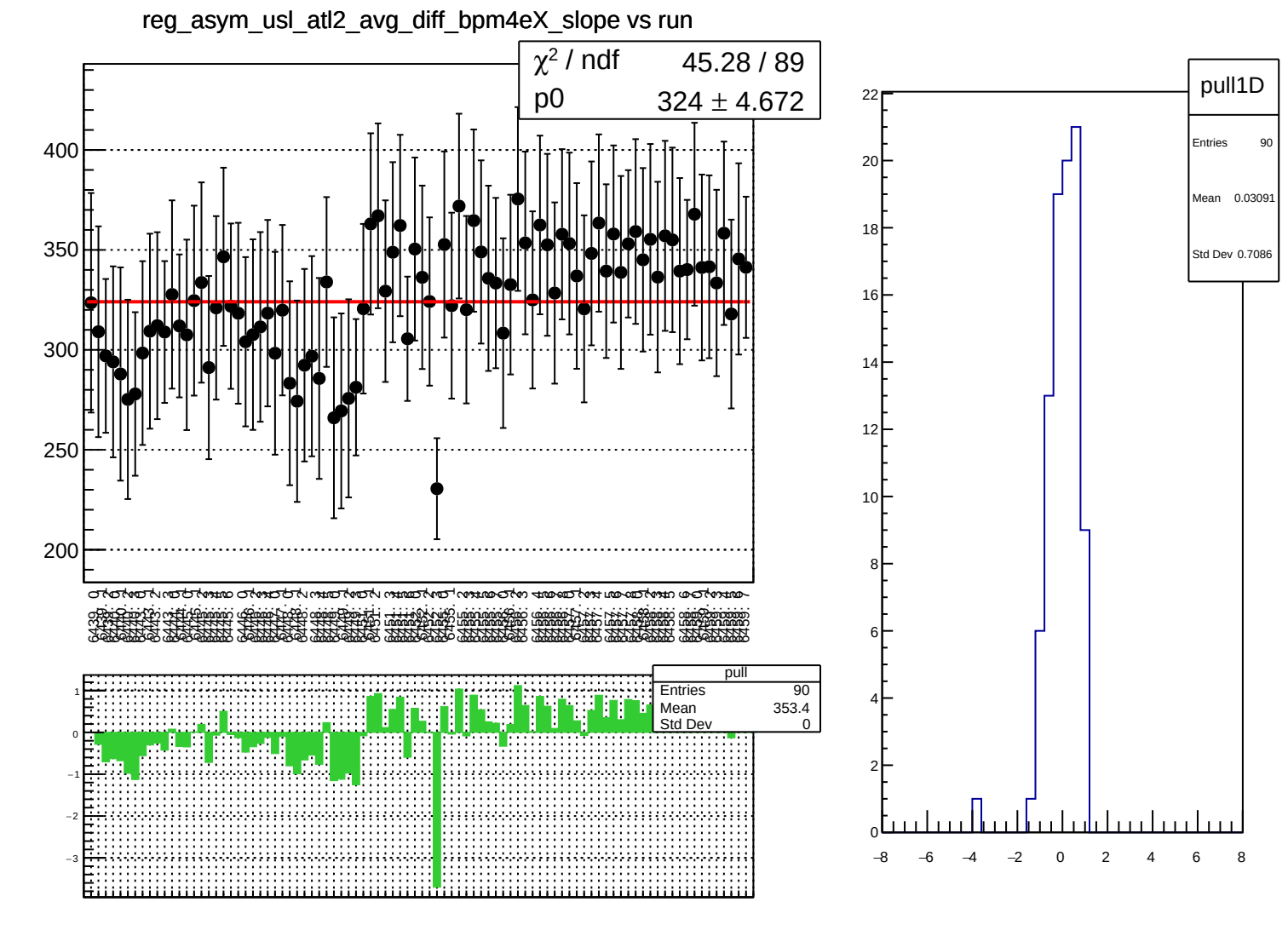

reg_asym_usl_atl1_dd_diff_bpm12X_slope vs run
χ² / ndf 83.26 / 89
p0 −9.171 ± 0.05283
pull
Entries 90
Mean 180.3
Std Dev 0

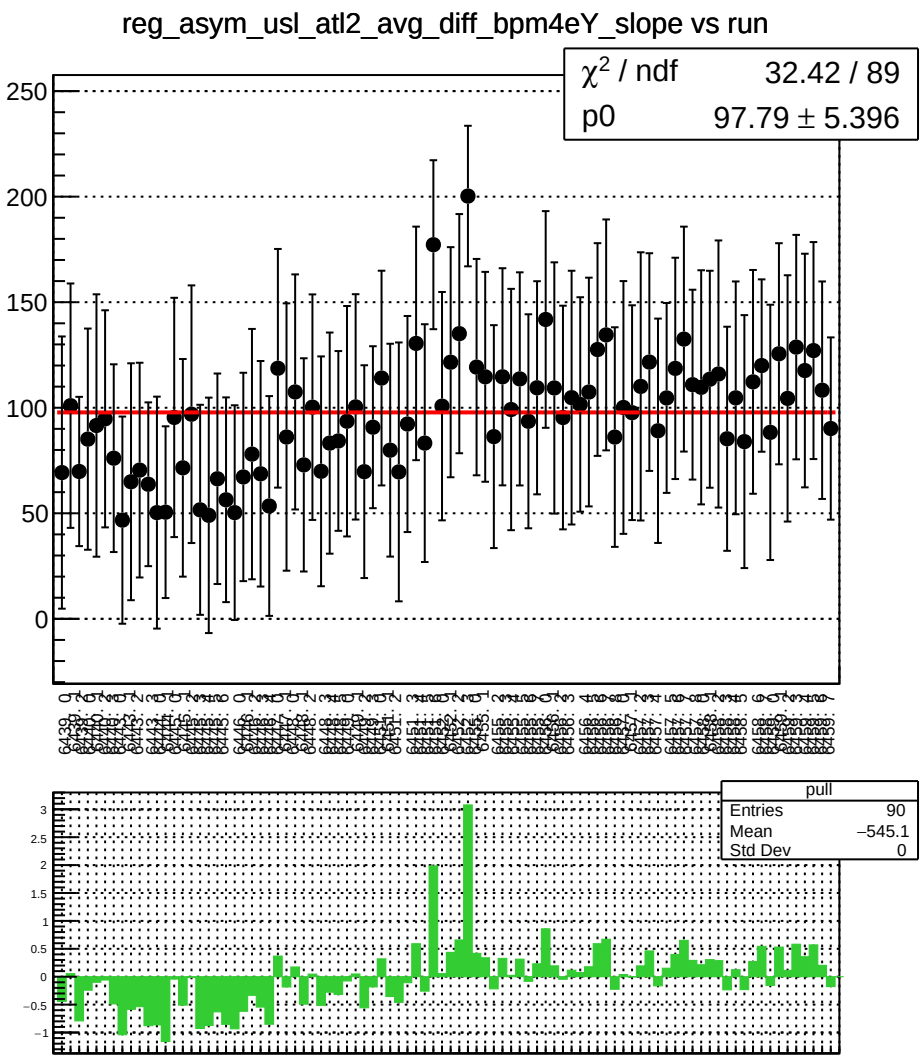

pull1D
Entries 90
Mean 0.03676
Std Dev 0.9611

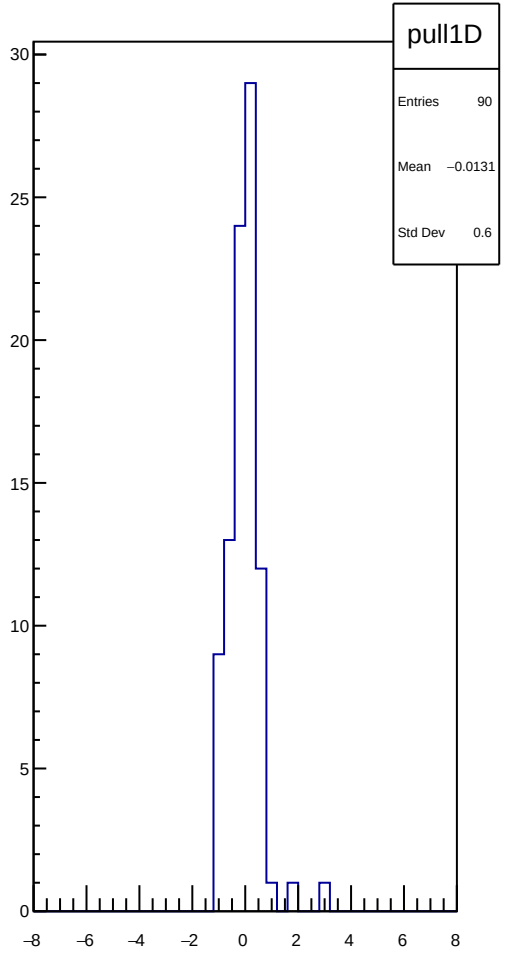

reg_asym_usl_atl2_avg_diff_bpm1X_slope vs run
χ² / ndf 39.35 / 89
p0 −351.6 ± 4.63
−250
−300
−350
−400
−450
pull
Entries 90
Mean 274.5
Std Dev 0
3
2
1
0
−1

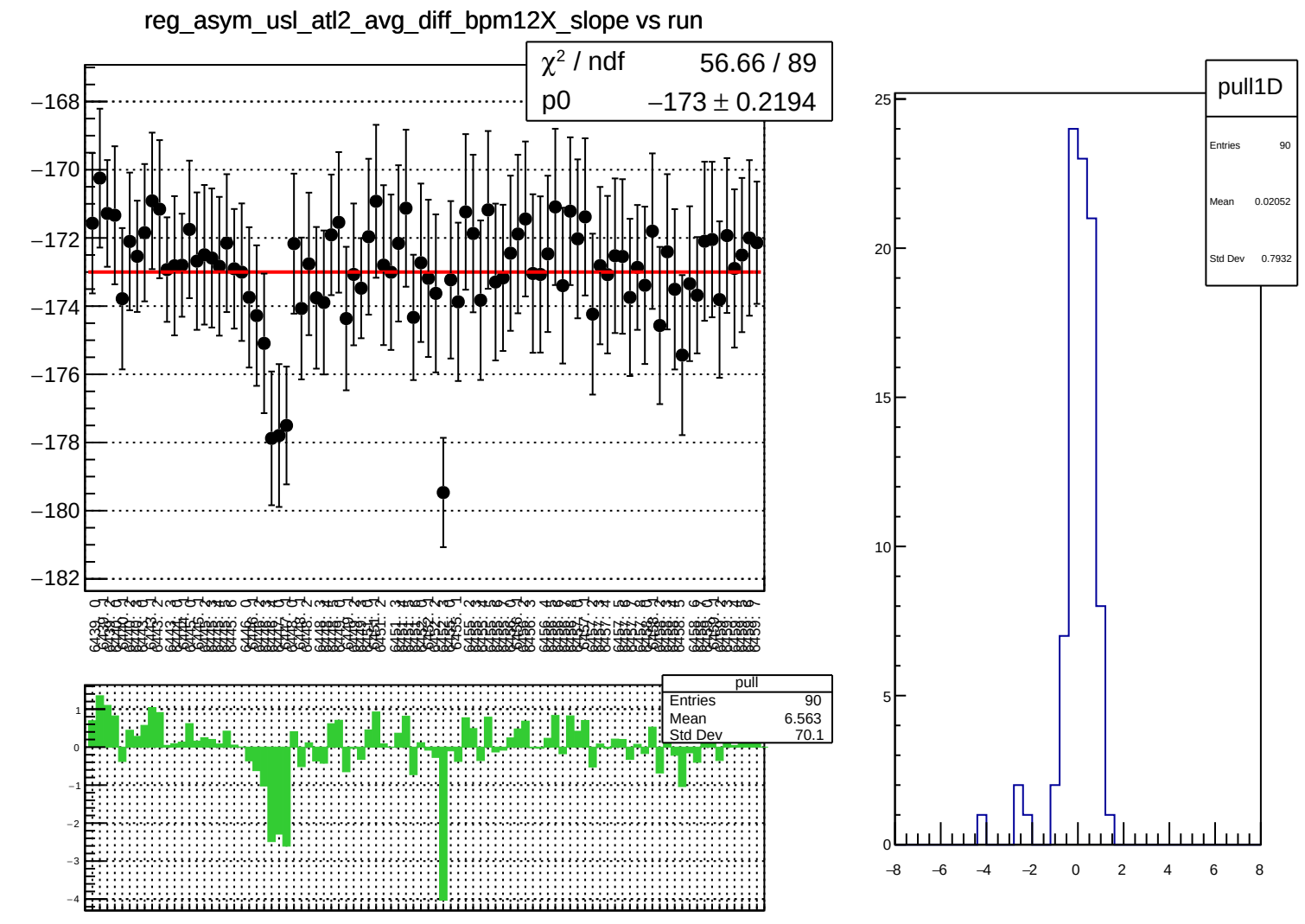

pull1D
Entries 90
Mean −0.03727
Std Dev 0.6601
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

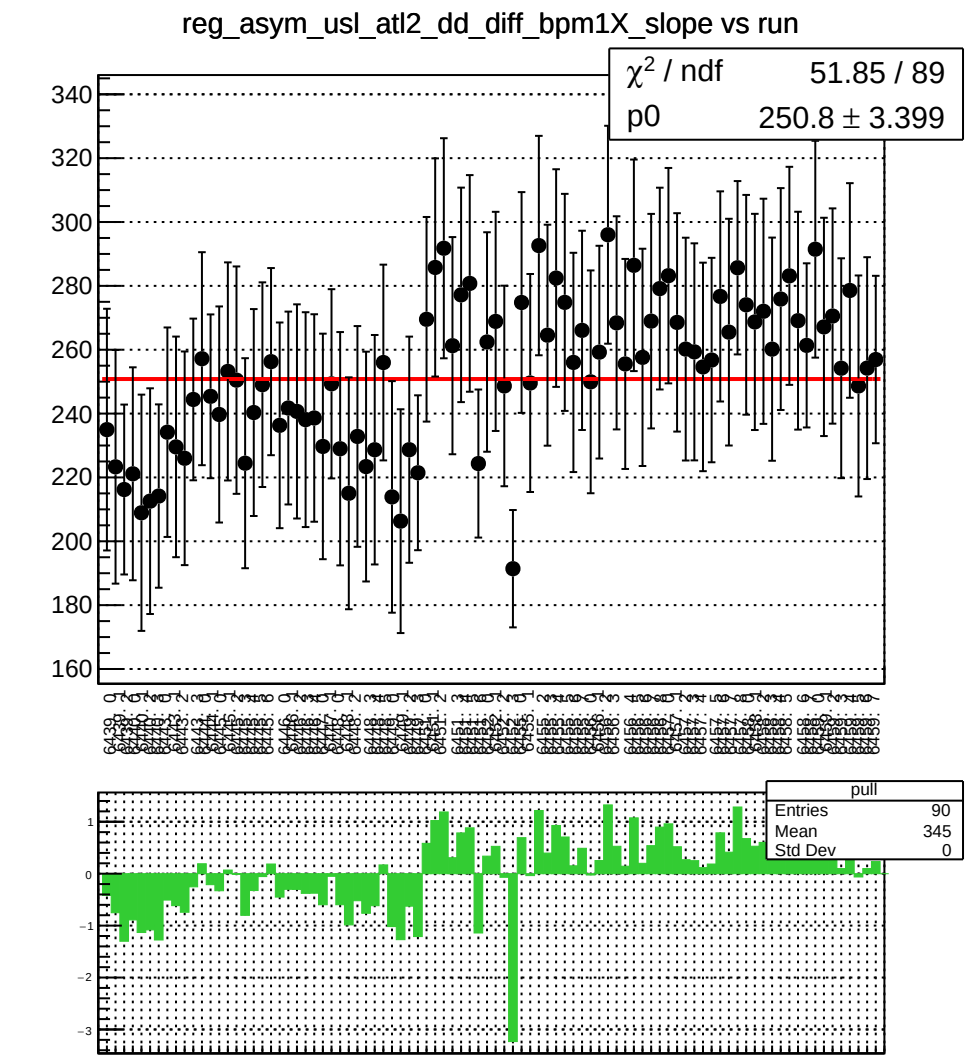

reg_asym_usl_atl2_avg_diff_bpm4aY_slope vs run
χ² / ndf 21.88 / 89
p0 14.72 ± 5.386
100
50
0
−50
−100
pull
Entries 90
Mean −280
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 90
Mean 0.01166
Std Dev 0.4929
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

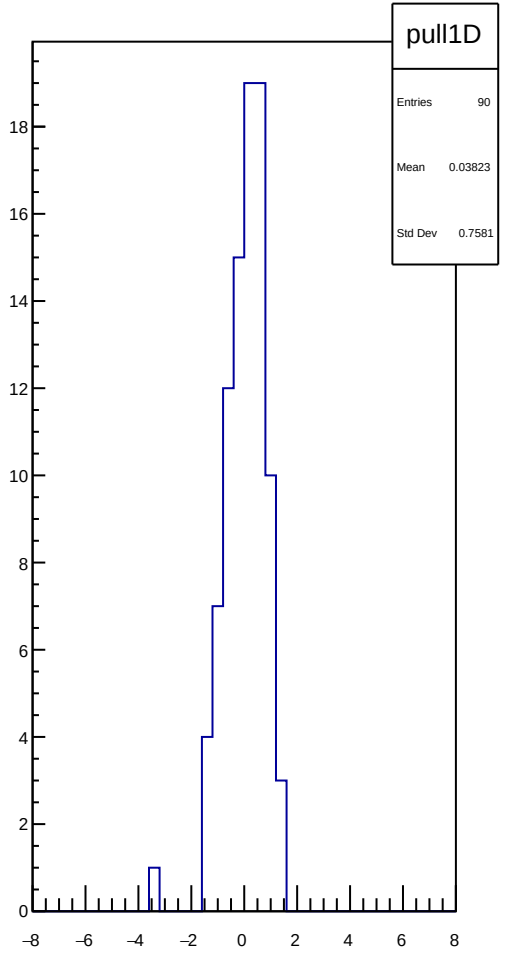

reg_asym_usl_atl2_avg_diff_bpm4eX_slope vs run
χ² / ndf 45.28 / 89
p0 324 ± 4.672
400
350
300
250
200
pull
Entries 90
Mean 353.4
Std Dev 0
1
0
−1
−2
−3
pull1D
Entries 90
Mean 0.03091
Std Dev 0.7086
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

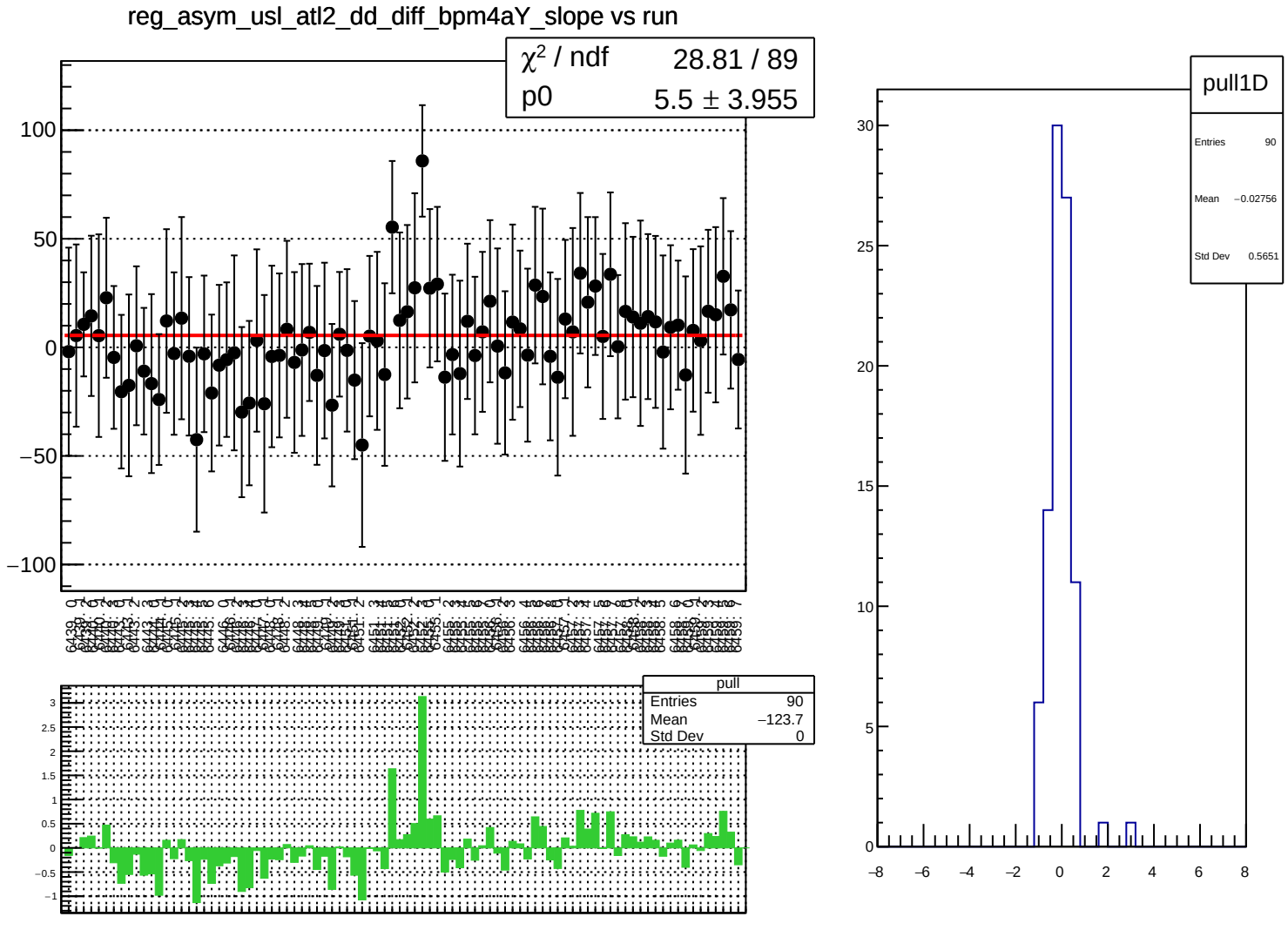

reg_asym_usl_atl2_avg_diff_bpm4eY_slope vs run
χ² / ndf 32.42 / 89
p0 97.79 ± 5.396
250
200
150
100
50
0
pull
Entries 90
Mean −545.1
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1

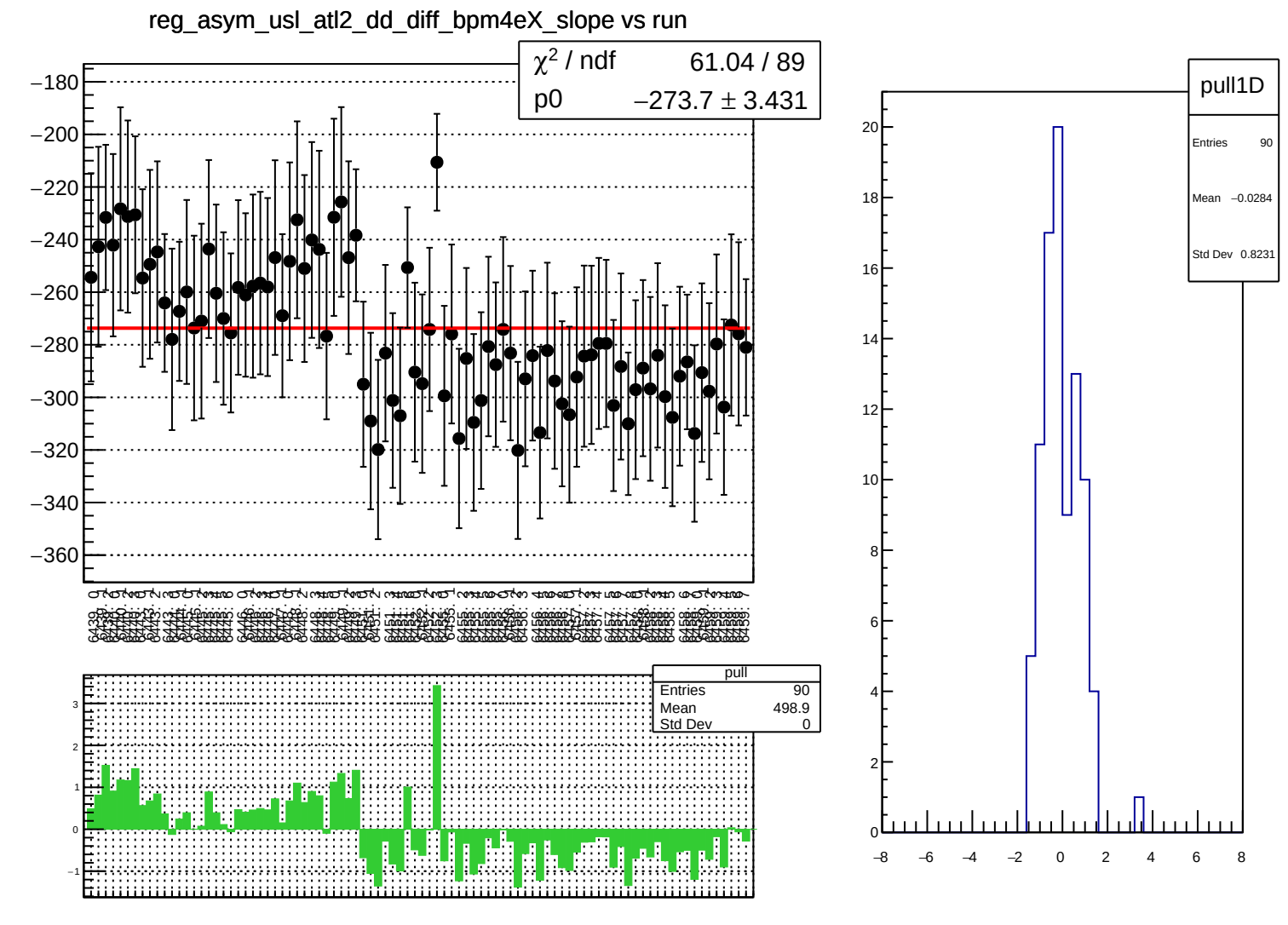

pull1D
Entries 90
Mean −0.0131
Std Dev 0.6
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

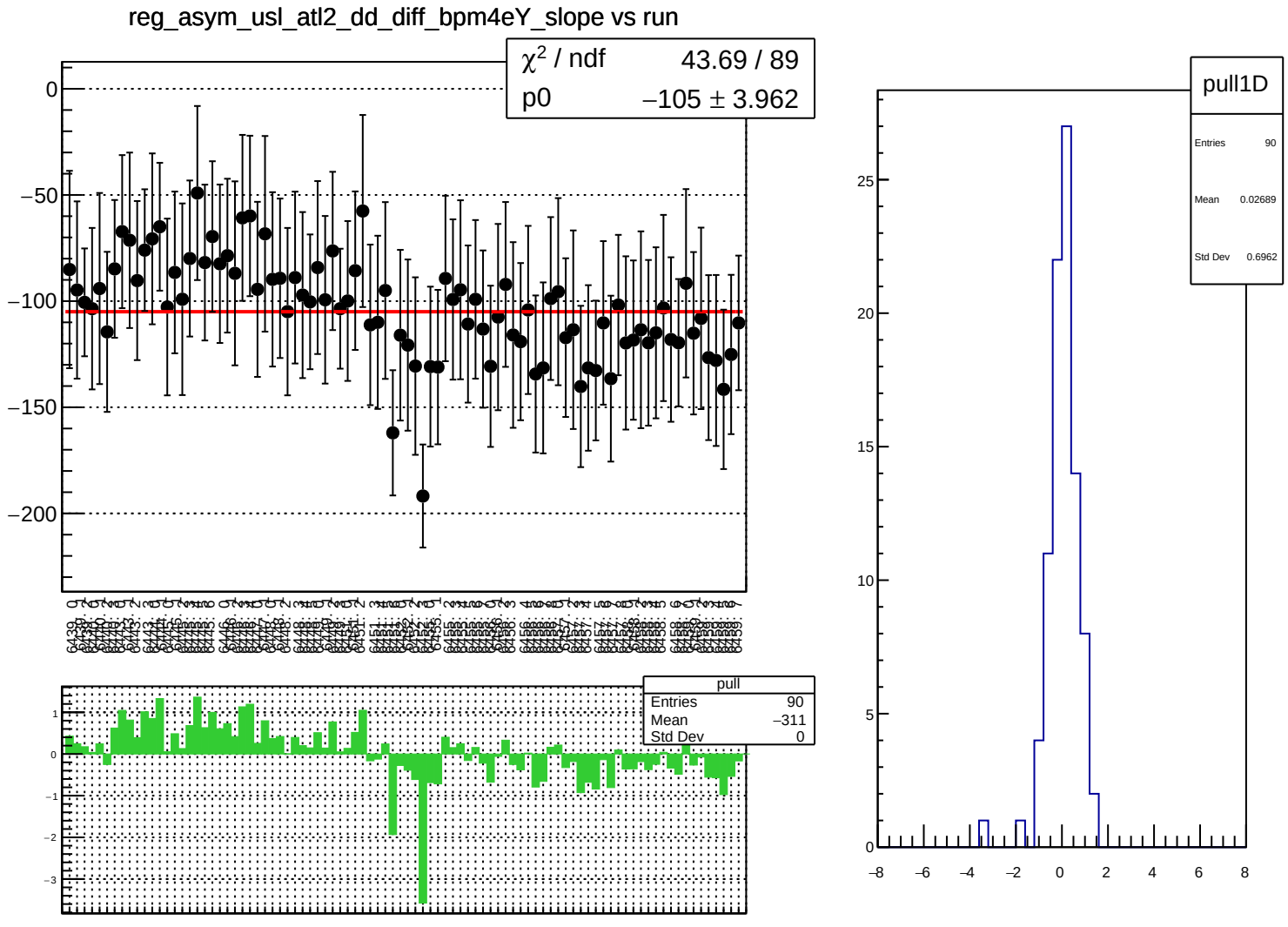

reg_asym_usl_atl2_avg_diff_bpm12X_slope vs run
χ² / ndf 56.66 / 89
p0 −173 ± 0.2194
−168
−170
−172
−174
−176
−178
−180
−182
pull
Entries 90
Mean 6.563
Std Dev 70.1
1
0
−1
−2
−3
−4
pull1D
Entries 90
Mean 0.02052
Std Dev 0.7932
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

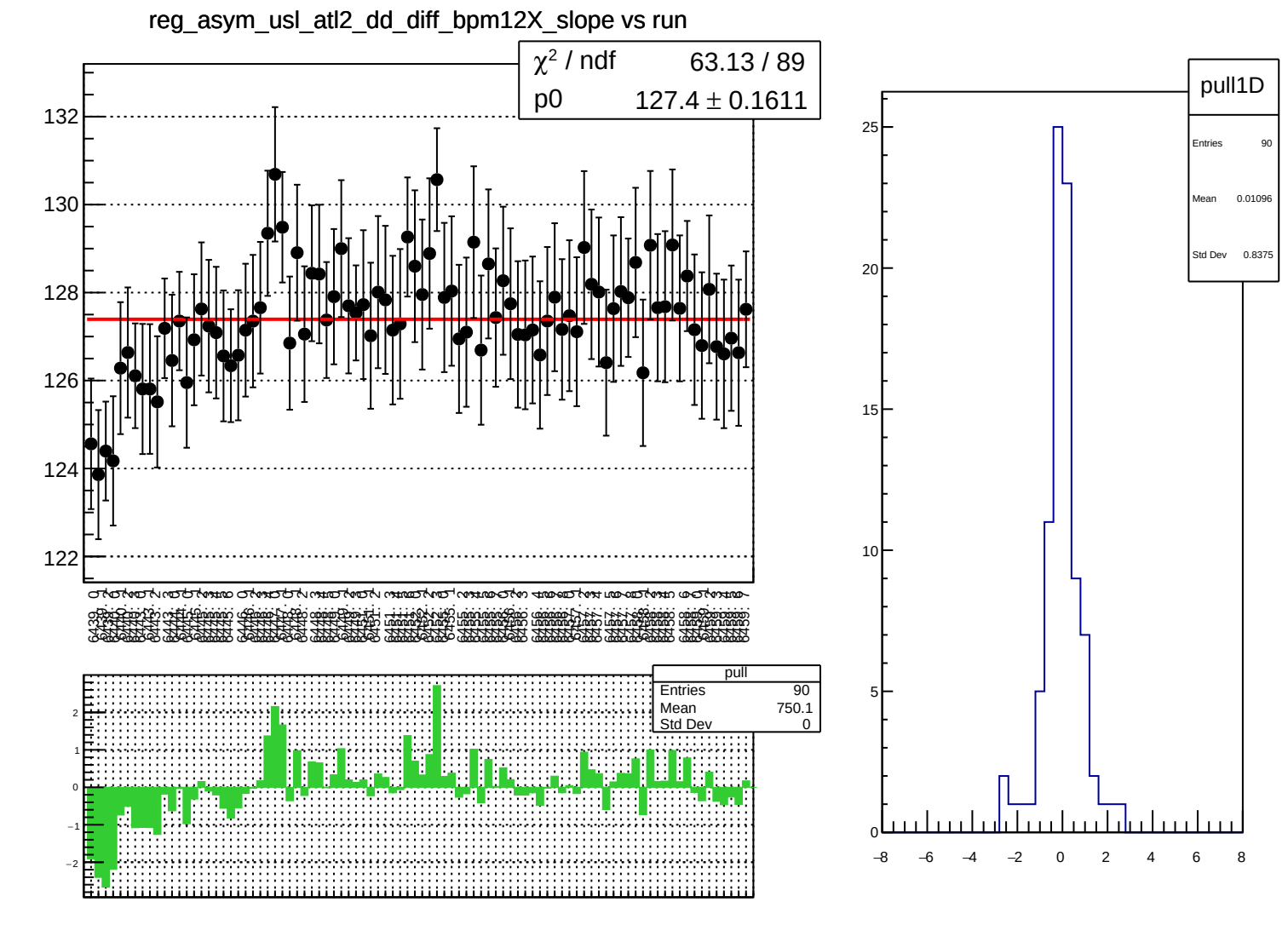

reg_asym_usl_atl2_dd_diff_bpm1X_slope vs run
χ² / ndf 51.85 / 89
p0 250.8 ± 3.399
pull
Entries 90
Mean 345
Std Dev 0

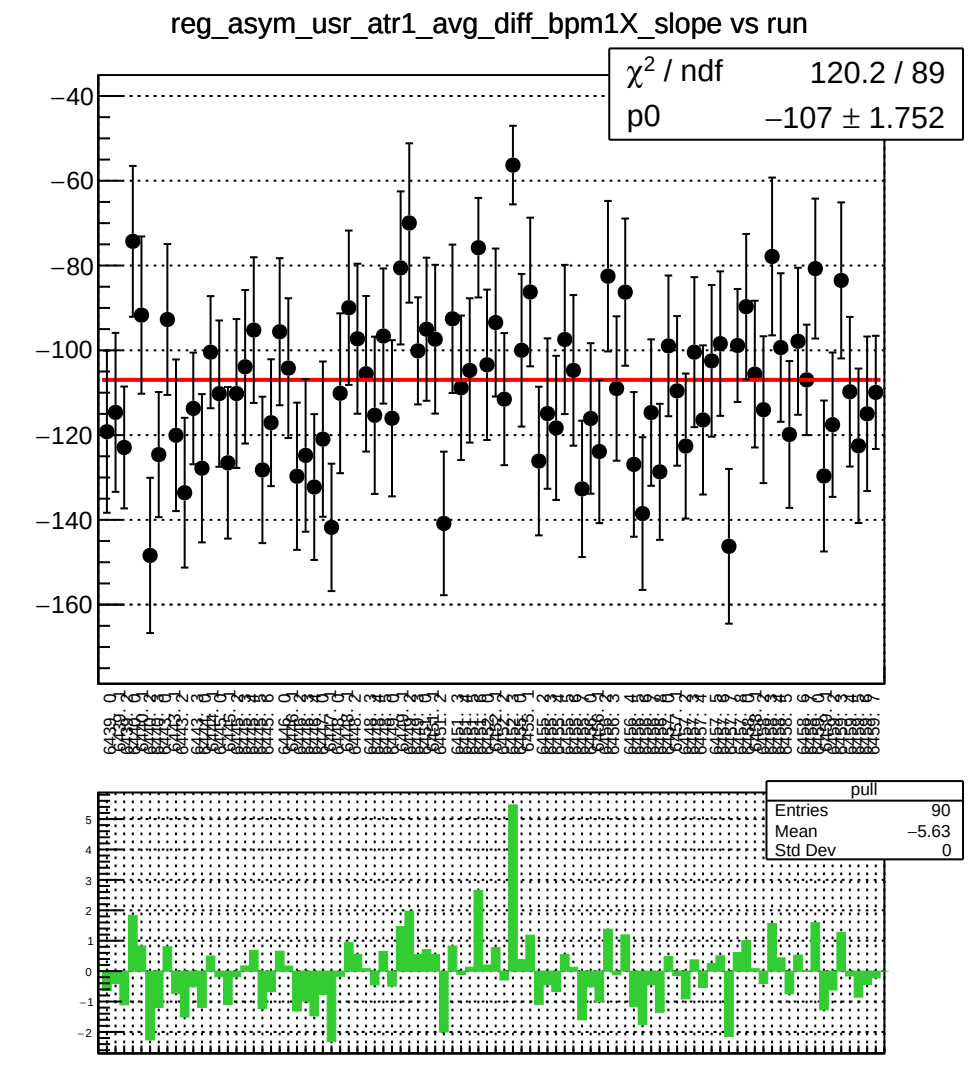

pull1D
Entries 90
Mean 0.03823
Std Dev 0.7581

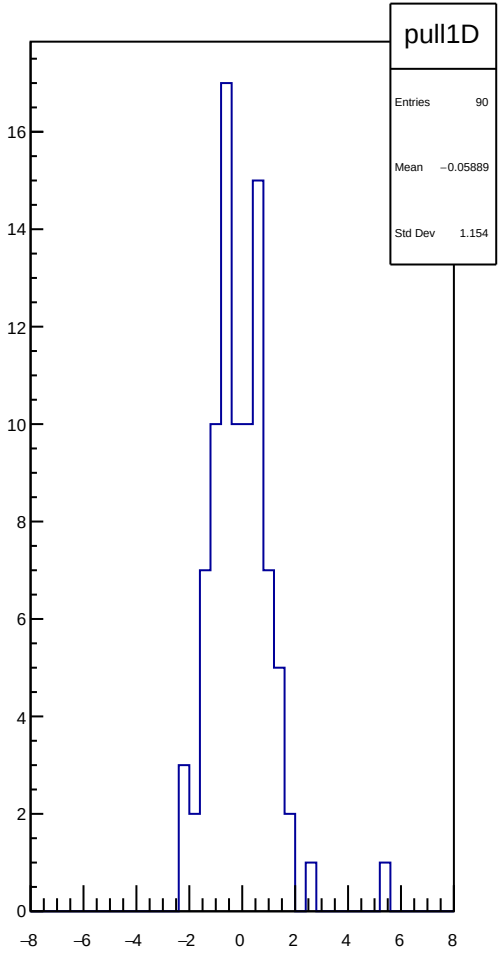

reg_asym_usl_atl2_dd_diff_bpm4aY_slope vs run
χ² / ndf 28.81 / 89
p0 5.5 ± 3.955
100
50
0
−50
−100
pull
Entries 90
Mean −123.7
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 90
Mean −0.02756
Std Dev 0.5651
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

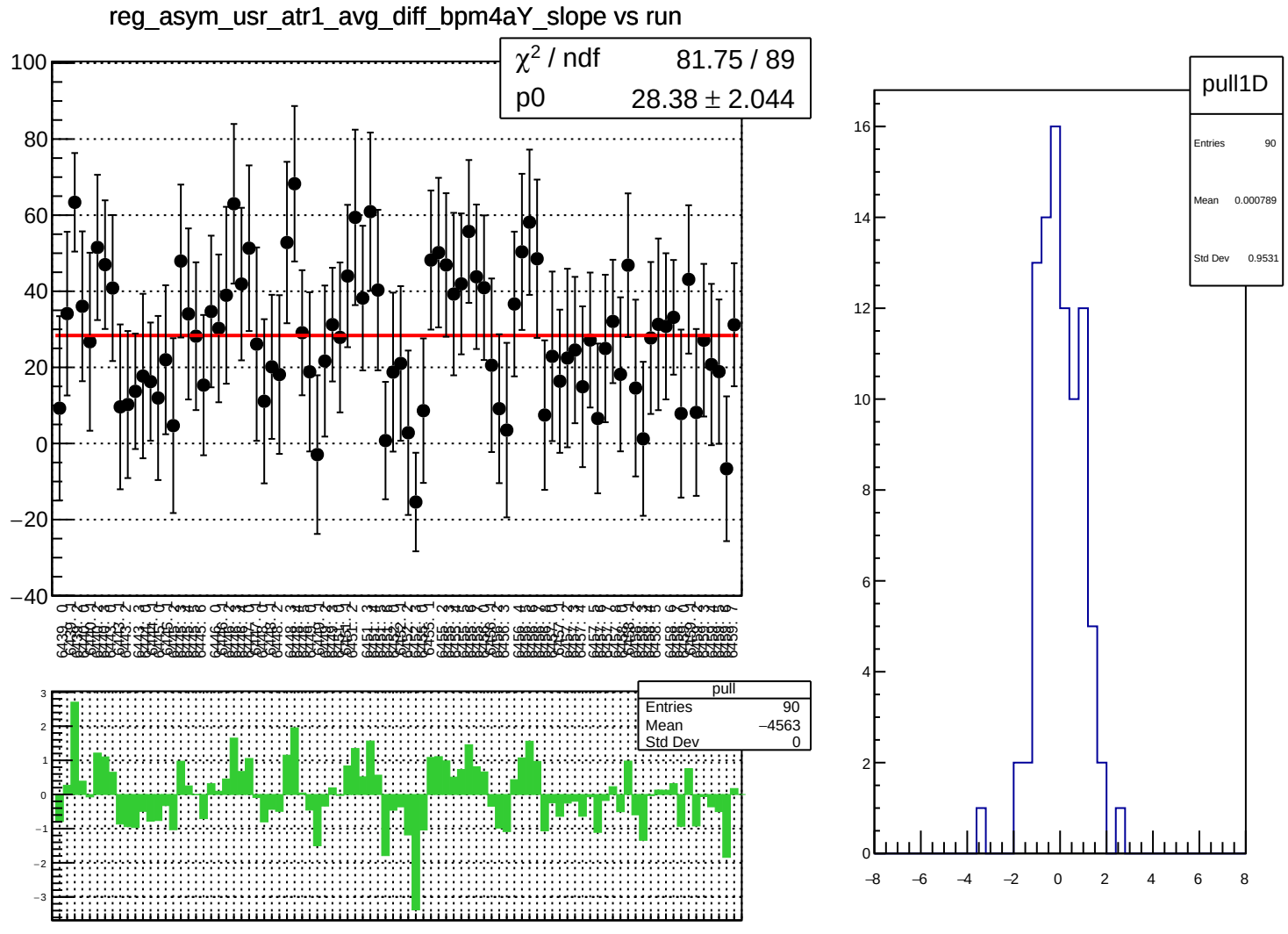

reg_asym_usl_atl2_dd_diff_bpm4eX_slope vs run
χ² / ndf 61.04 / 89
p0 −273.7 ± 3.431
pull
Entries 90
Mean 498.9
Std Dev 0
pull1D
Entries 90
Mean −0.0284
Std Dev 0.8231

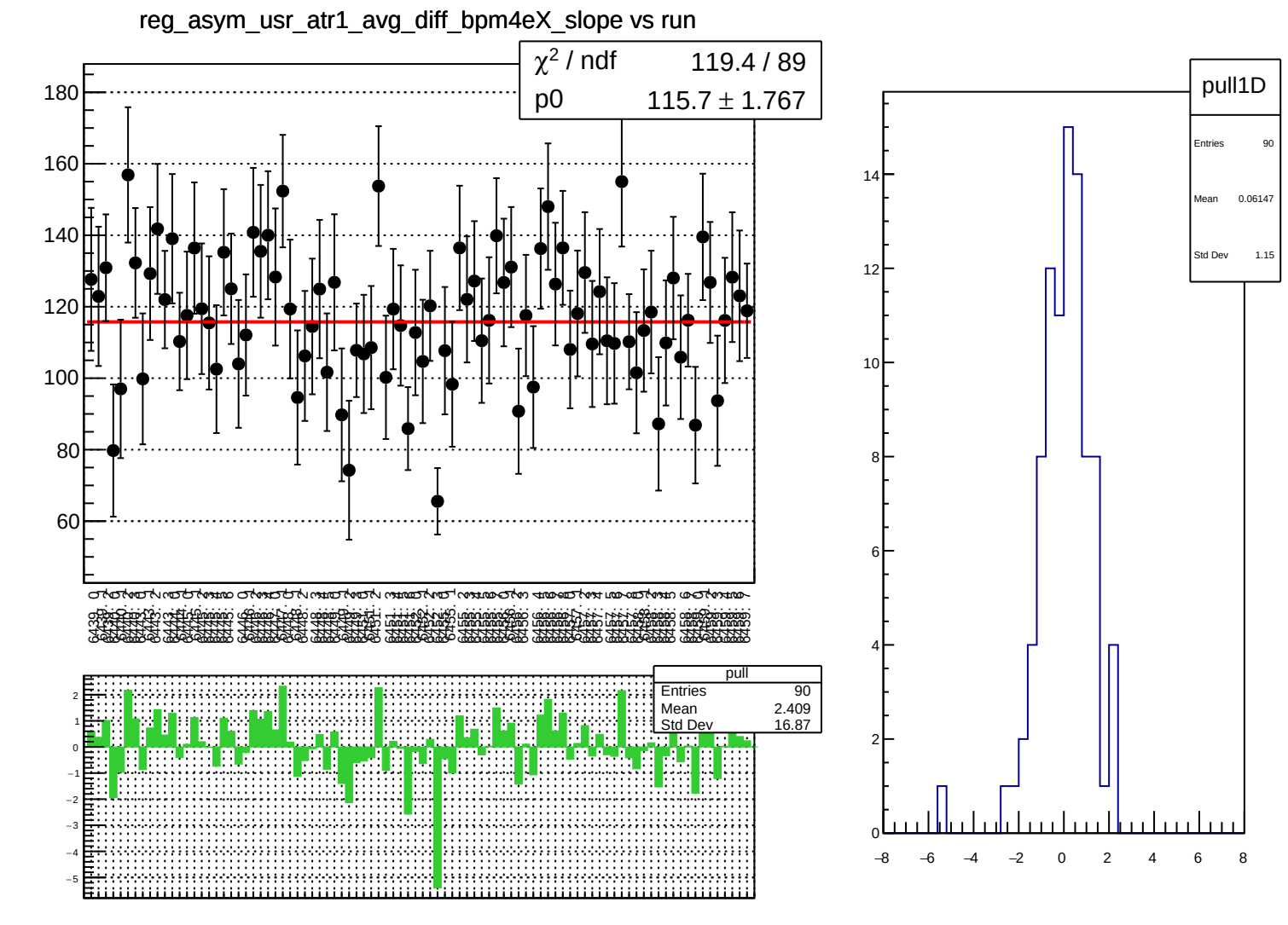

reg_asym_usl_atl2_dd_diff_bpm4eY_slope vs run
χ² / ndf 43.69 / 89
p0 −105 ± 3.962
0
−50
−100
−150
−200
pull
Entries 90
Mean −311
Std Dev 0
1
0
−1
−2
−3
pull1D
Entries 90
Mean 0.02689
Std Dev 0.6962
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

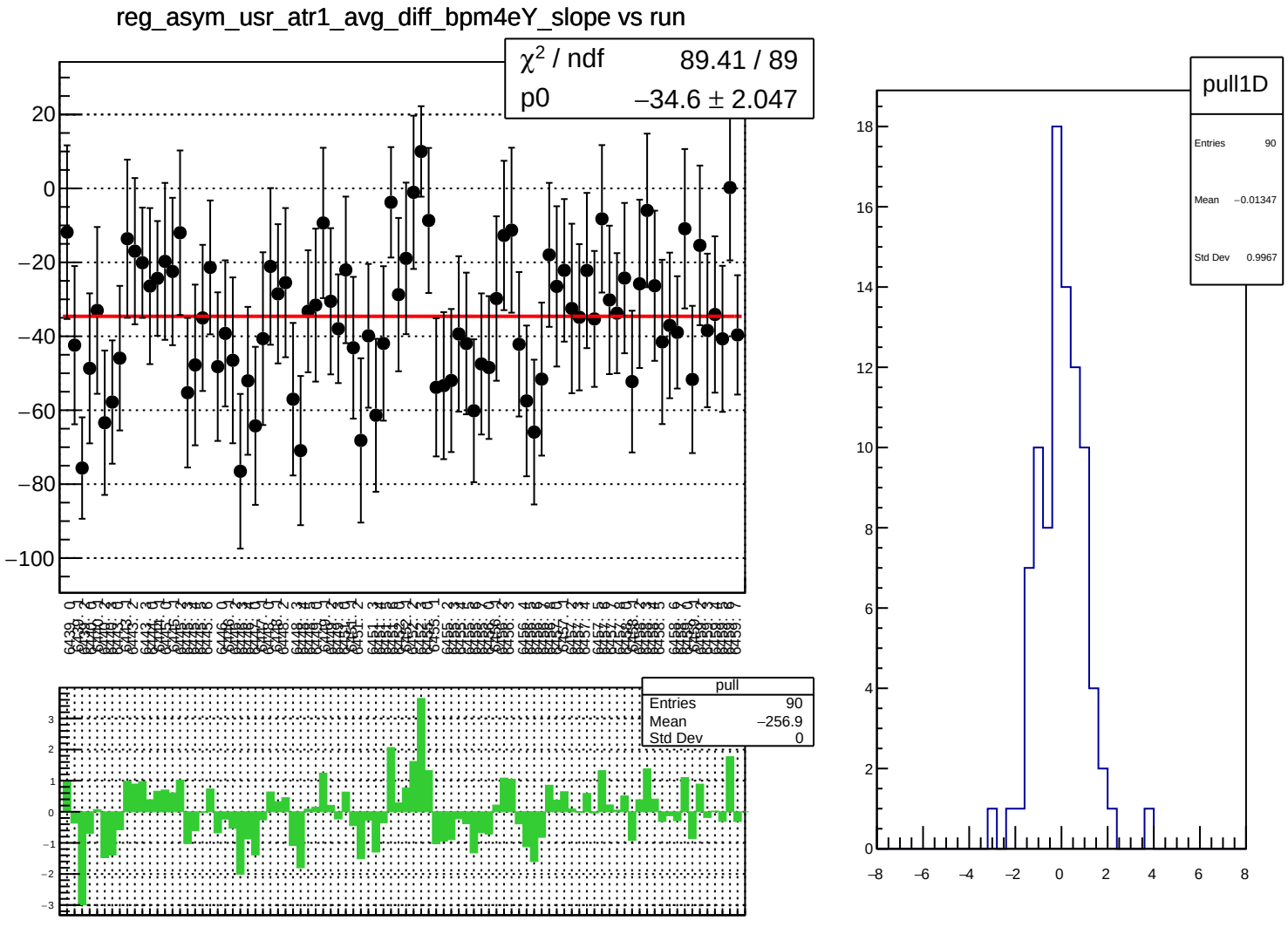

reg_asym_usl_atl2_dd_diff_bpm12X_slope vs run
χ² / ndf 63.13 / 89
p0 127.4 ± 0.1611
132
130
128
126
124
122
pull
Entries 90
Mean 750.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 90
Mean 0.01096
Std Dev 0.8375
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

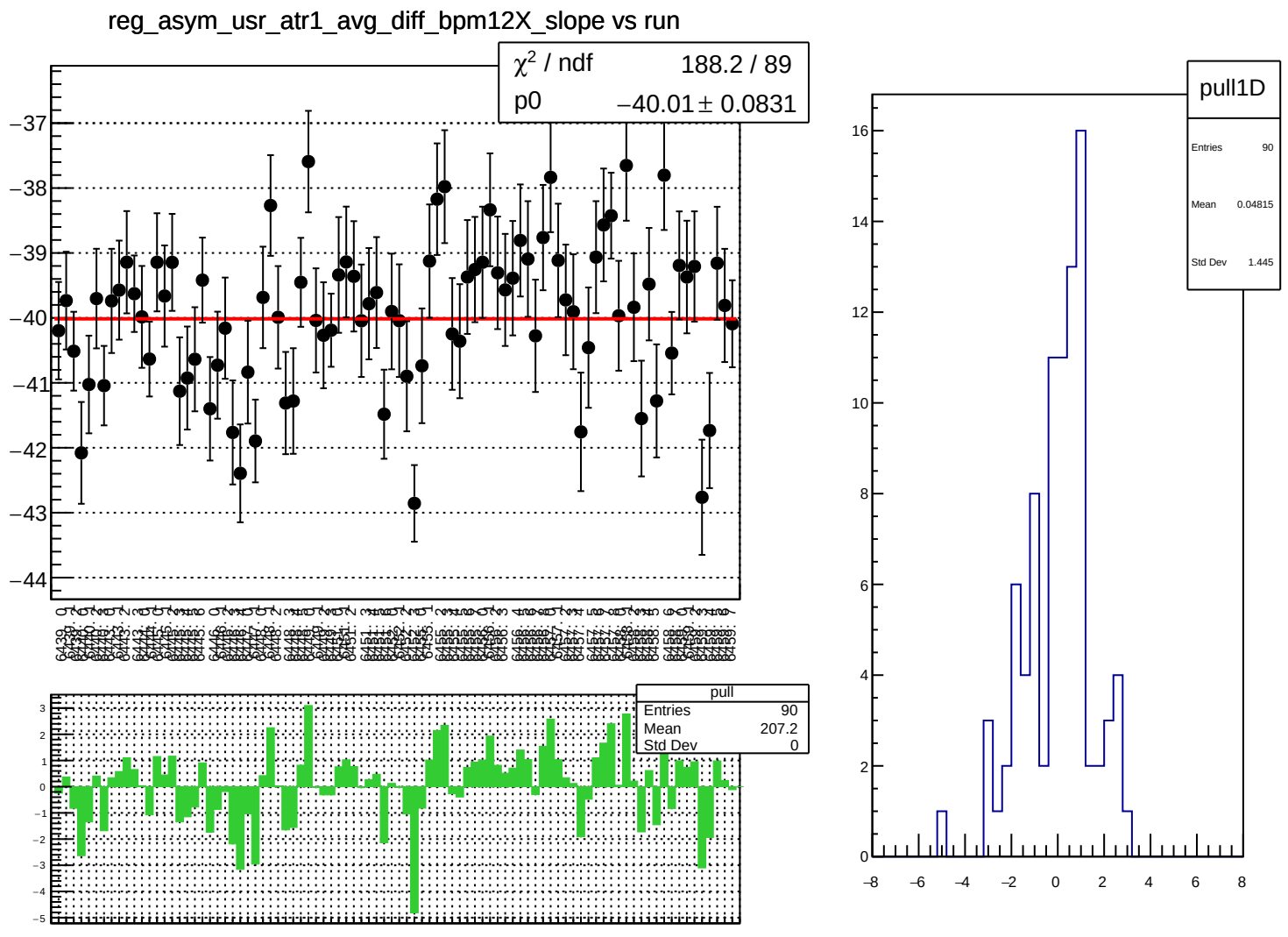

reg_asym_usr_atr1_avg_diff_bpm1X_slope vs run
χ² / ndf 120.2 / 89
p0 −107 ± 1.752
−40
−60
−80
−100
−120
−140
−160
pull
Entries 90
Mean −5.63
Std Dev 0
5
4
3
2
1
0
−1
−2

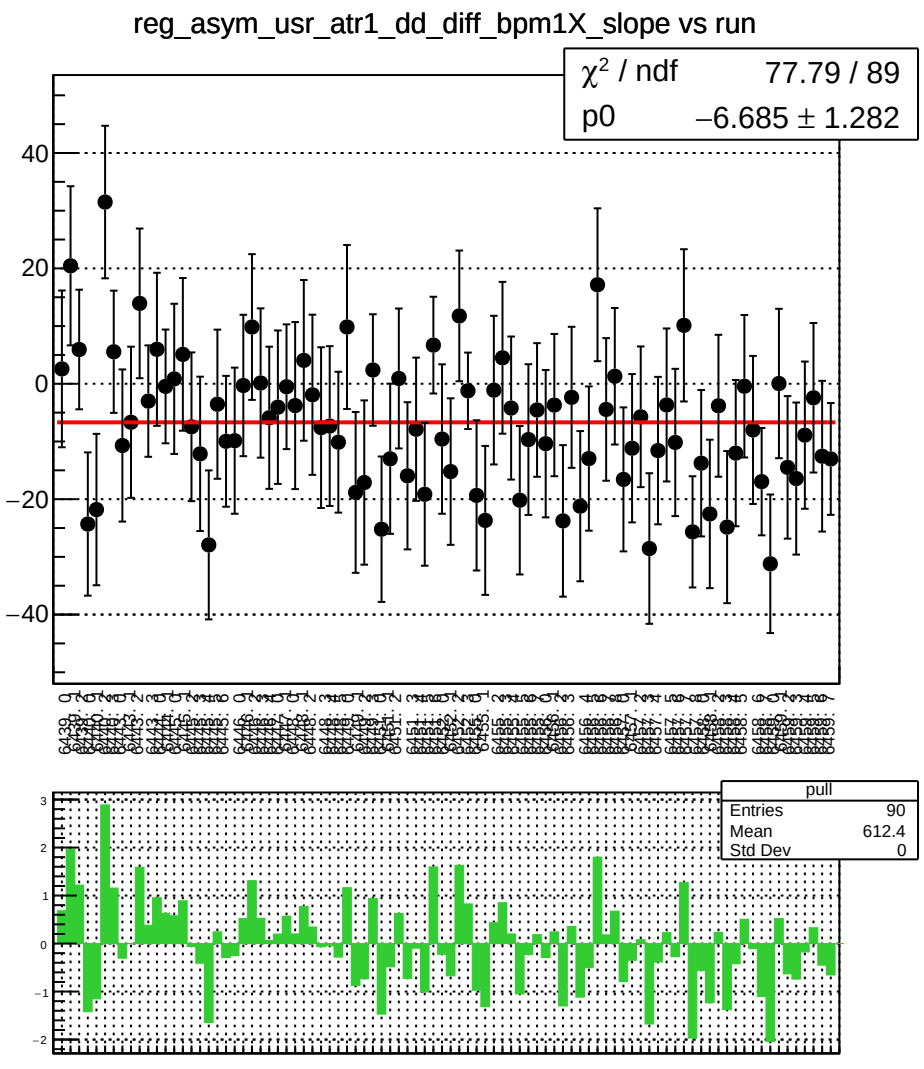

pull1D
Entries 90
Mean −0.05889
Std Dev 1.154
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

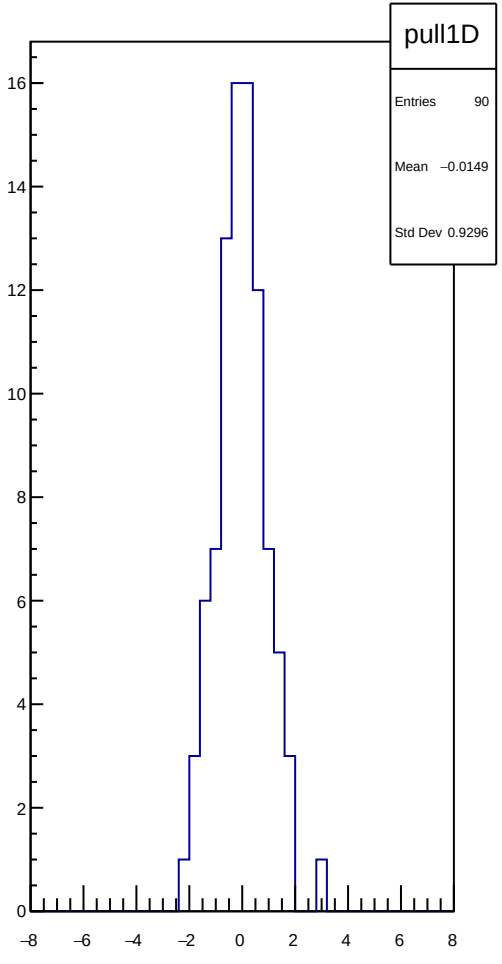

reg_asym_usr_atr1_avg_diff_bpm4aY_slope vs run
χ² / ndf 81.75 / 89
p0 28.38 ± 2.044
pull
Entries 90
Mean −4563
Std Dev 0
pull1D
Entries 90
Mean 0.000789
Std Dev 0.9531

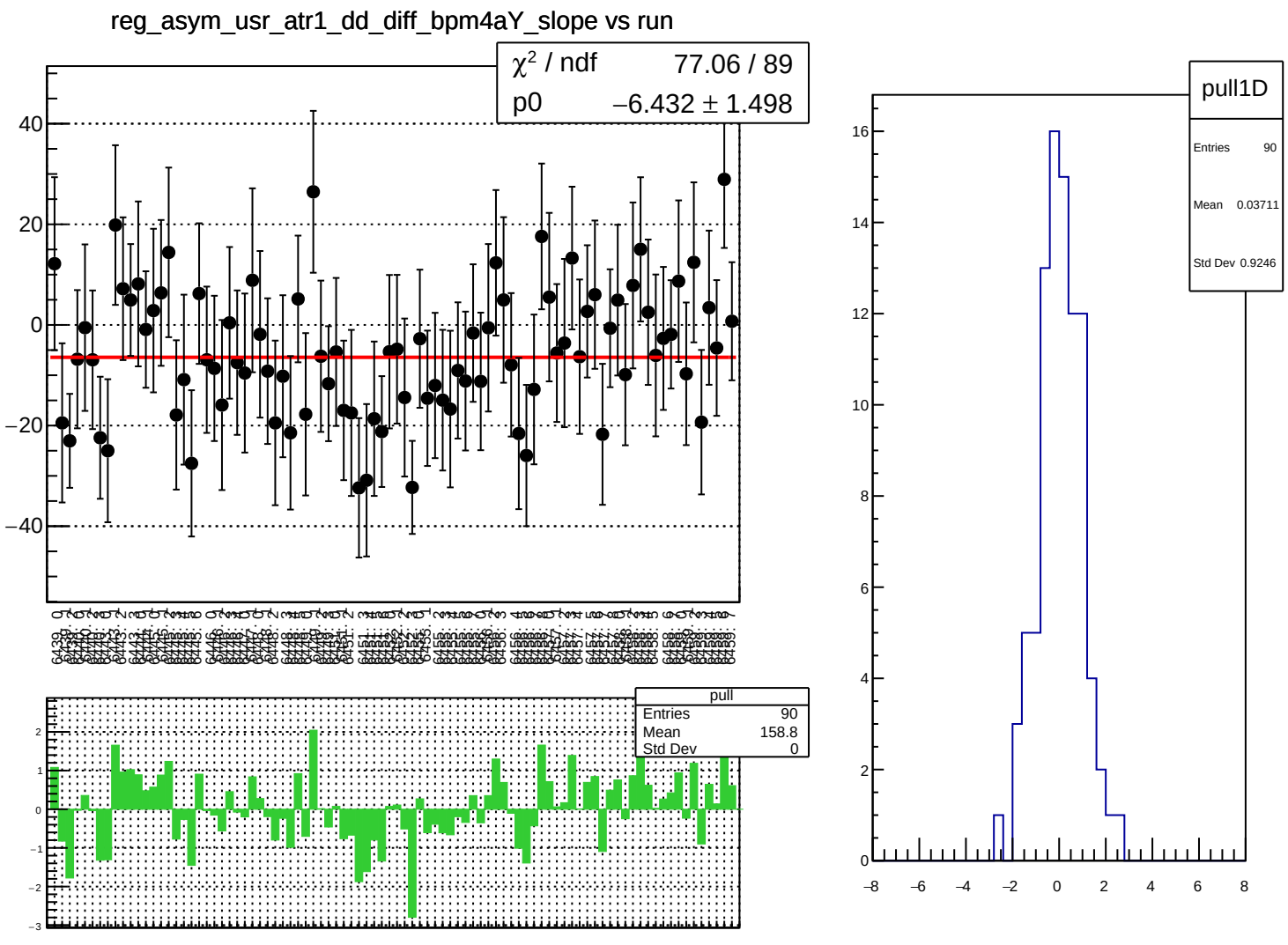

reg_asym_usr_atr1_avg_diff_bpm4eX_slope vs run
χ² / ndf 119.4 / 89
p0 115.7 ± 1.767
pull
Entries 90
Mean 2.409
Std Dev 16.87
pull1D
Entries 90
Mean 0.06147
Std Dev 1.15

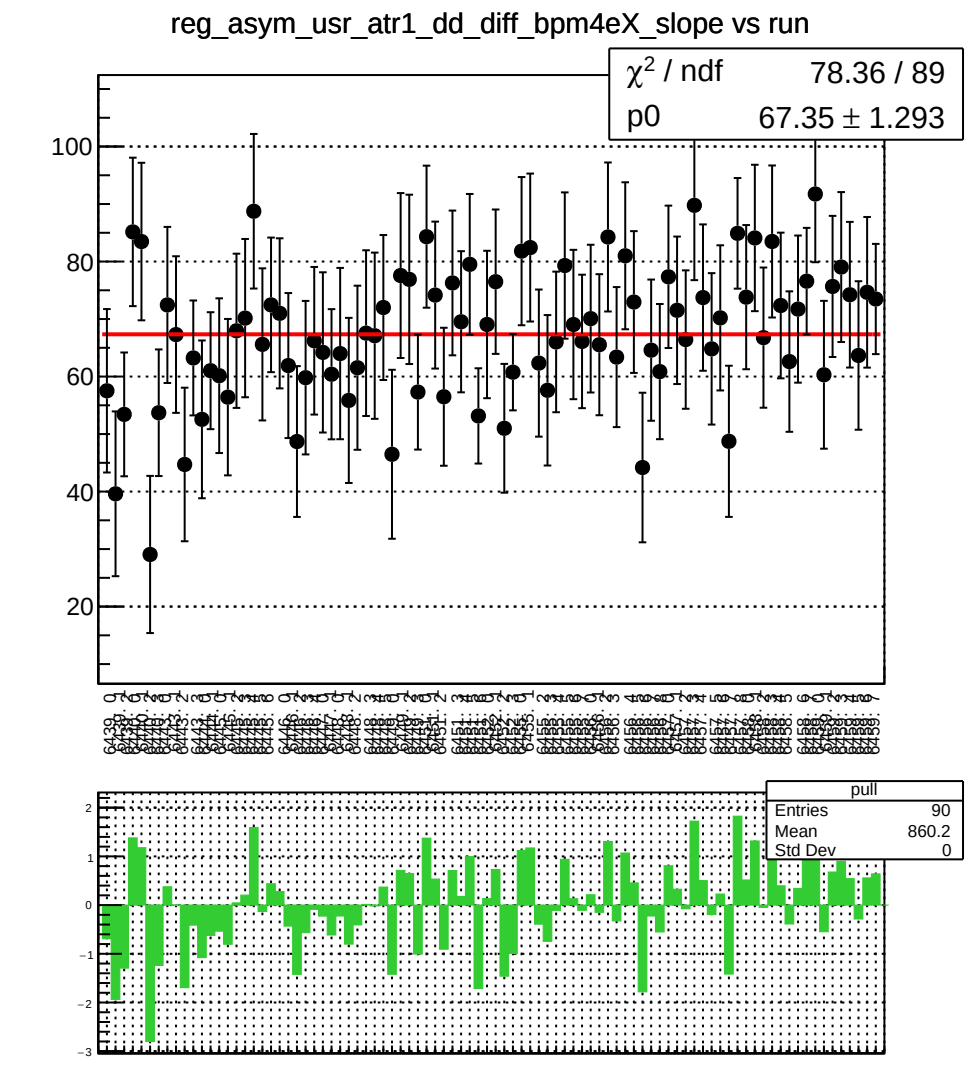

reg_asym_usr_atr1_avg_diff_bpm4eY_slope vs run
χ² / ndf 89.41 / 89
p0 −34.6 ± 2.047
pull
Entries 90
Mean −256.9
Std Dev 0
pull1D
Entries 90
Mean −0.01347
Std Dev 0.9967

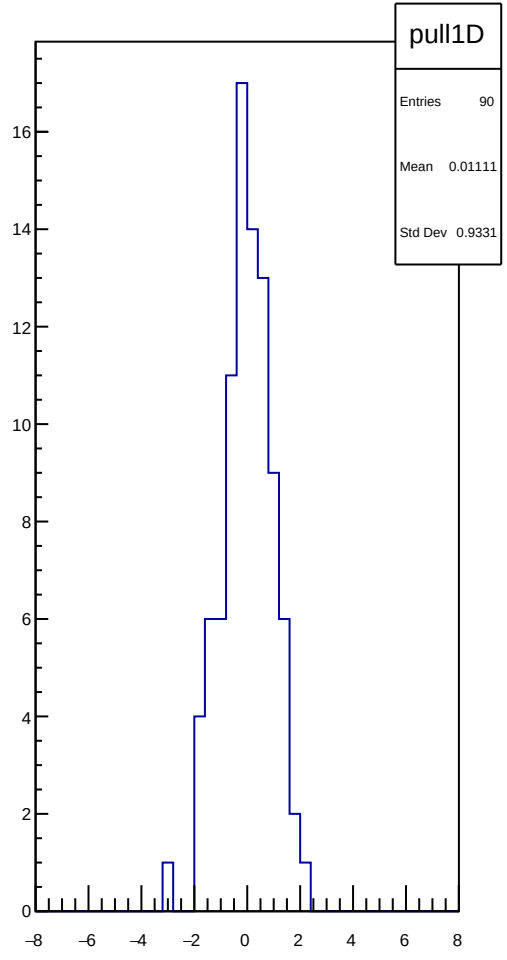

reg_asym_usr_atr1_avg_diff_bpm12X_slope vs run
χ² / ndf 188.2 / 89
p0 −40.01 ± 0.0831
pull
Entries 90
Mean 207.2
Std Dev 0
pull1D
Entries 90
Mean 0.04815
Std Dev 1.445

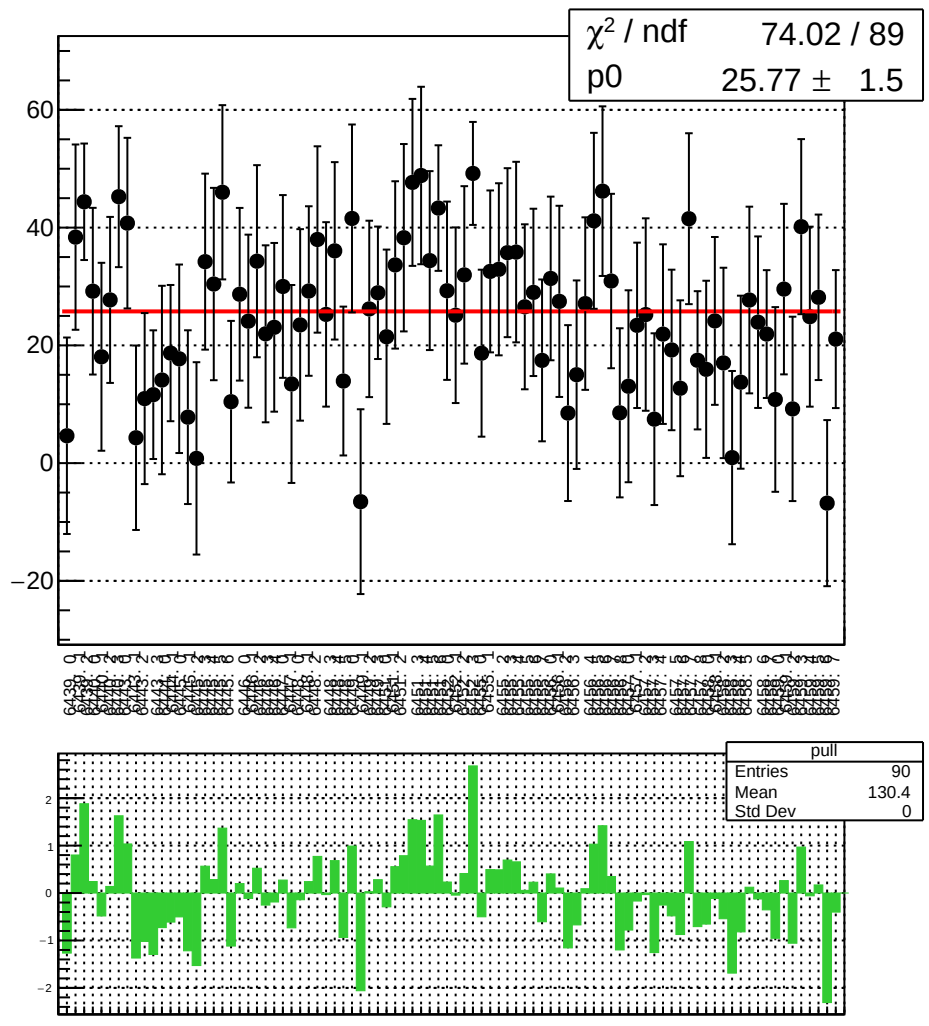

reg_asym_usr_atr1_dd_diff_bpm1X_slope vs run
χ² / ndf 77.79 / 89
p0 −6.685 ± 1.282
pull
Entries 90
Mean 612.4
Std Dev 0

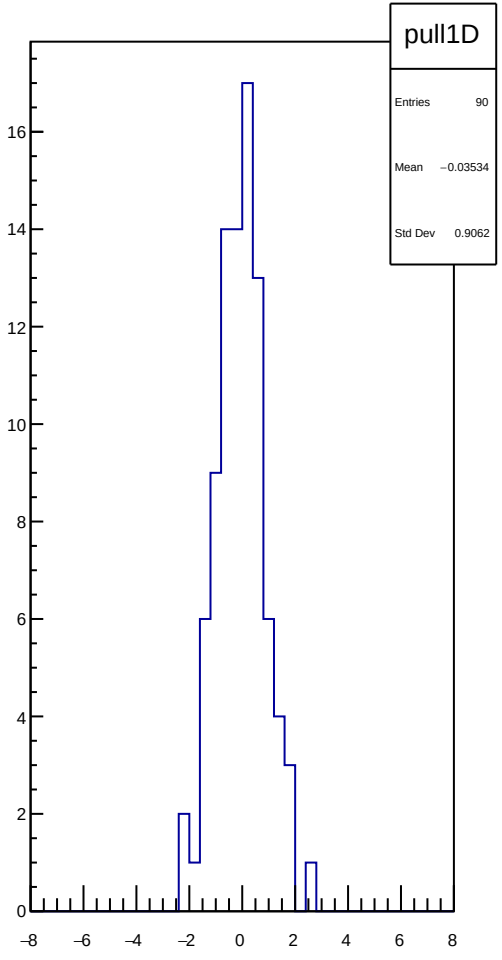

pull1D
Entries 90
Mean −0.0149
Std Dev 0.9296

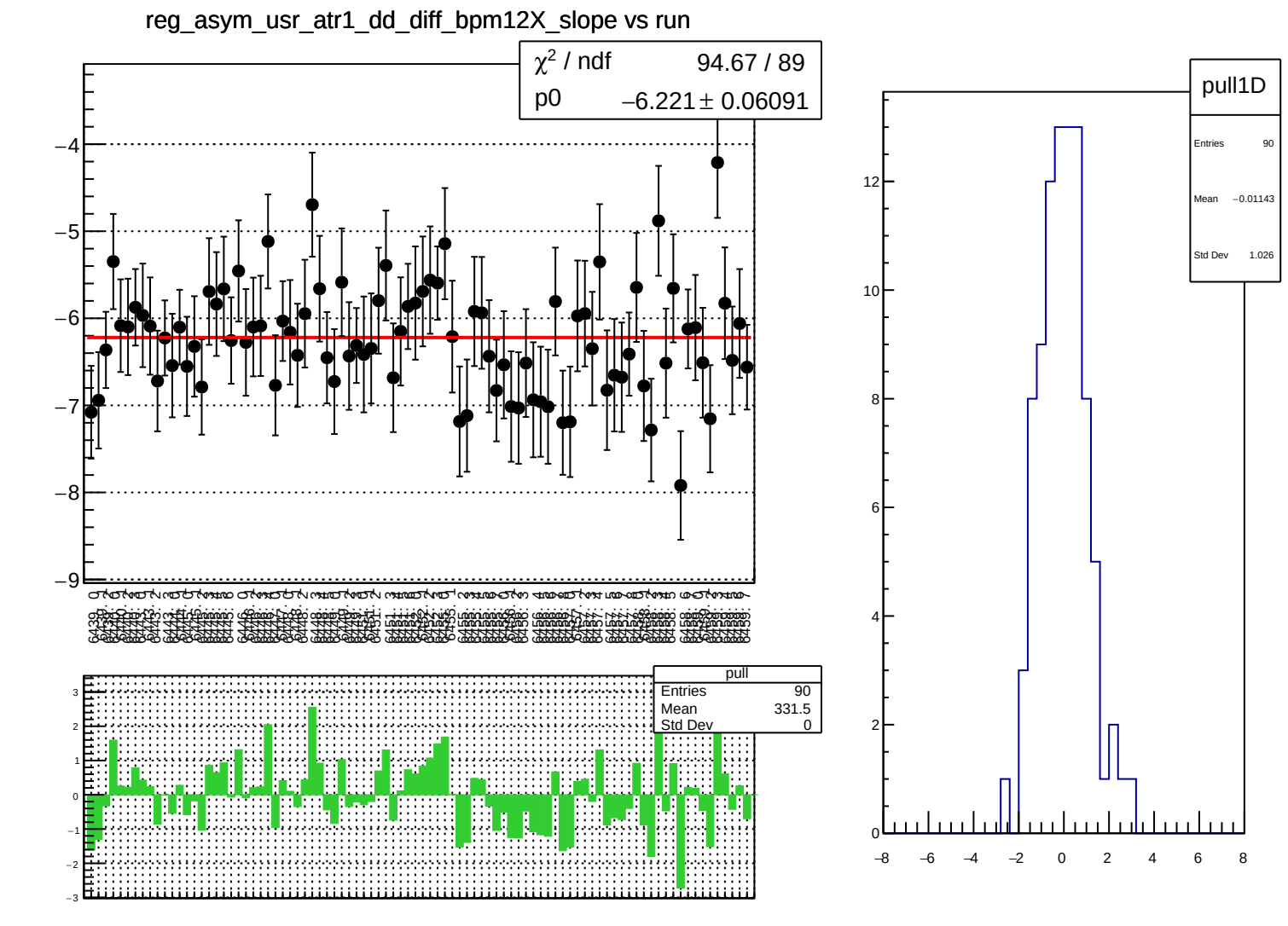

reg_asym_usr_atr1_dd_diff_bpm4aY_slope vs run
χ² / ndf 77.06 / 89
p0 −6.432 ± 1.498
pull
Entries 90
Mean 158.8
Std Dev 0
pull1D
Entries 90
Mean 0.03711
Std Dev 0.9246

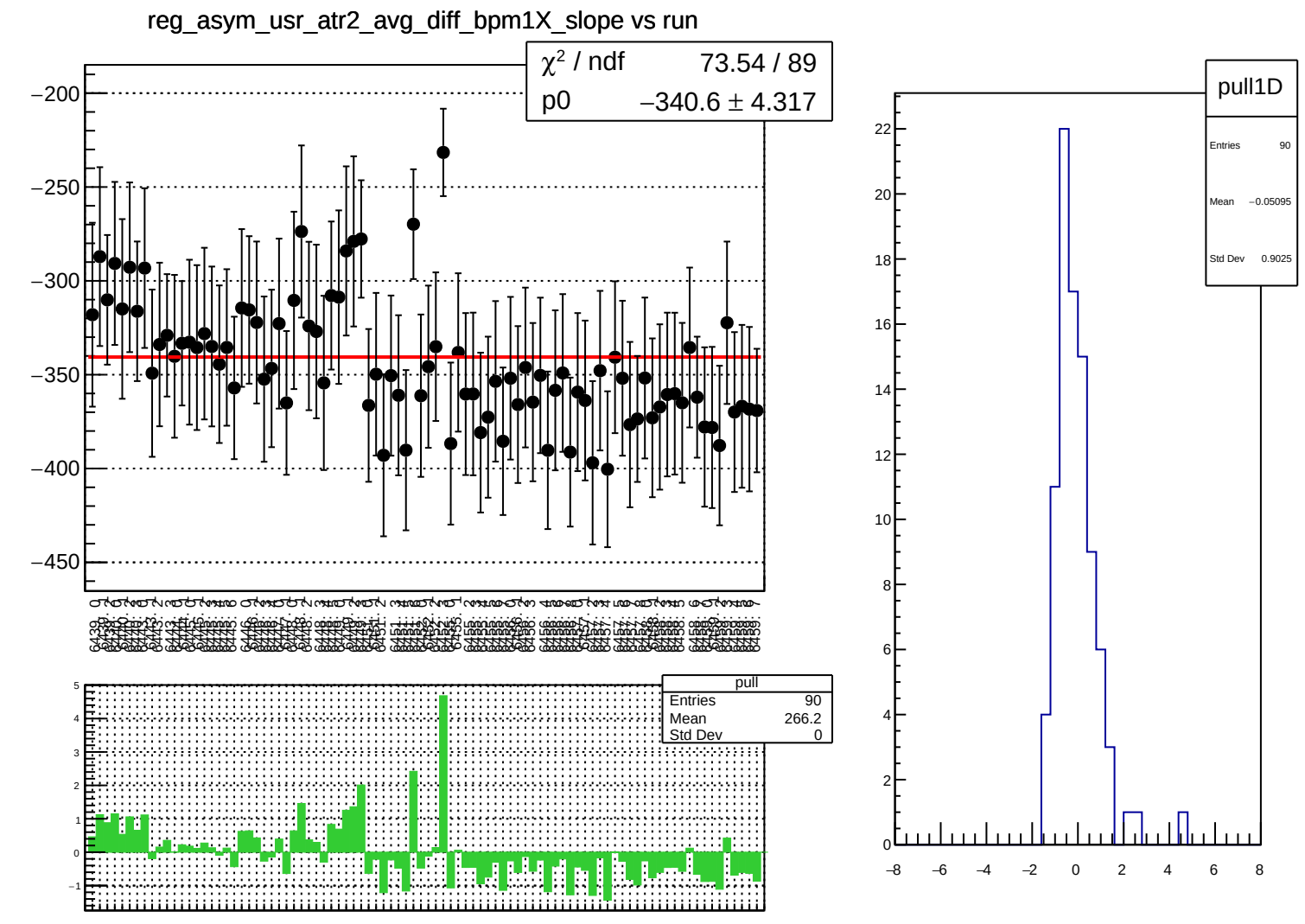

reg_asym_usr_atr1_dd_diff_bpm4eX_slope vs run
χ² / ndf 78.36 / 89
p0 67.35 ± 1.293
pull
Entries 90
Mean 860.2
Std Dev 0

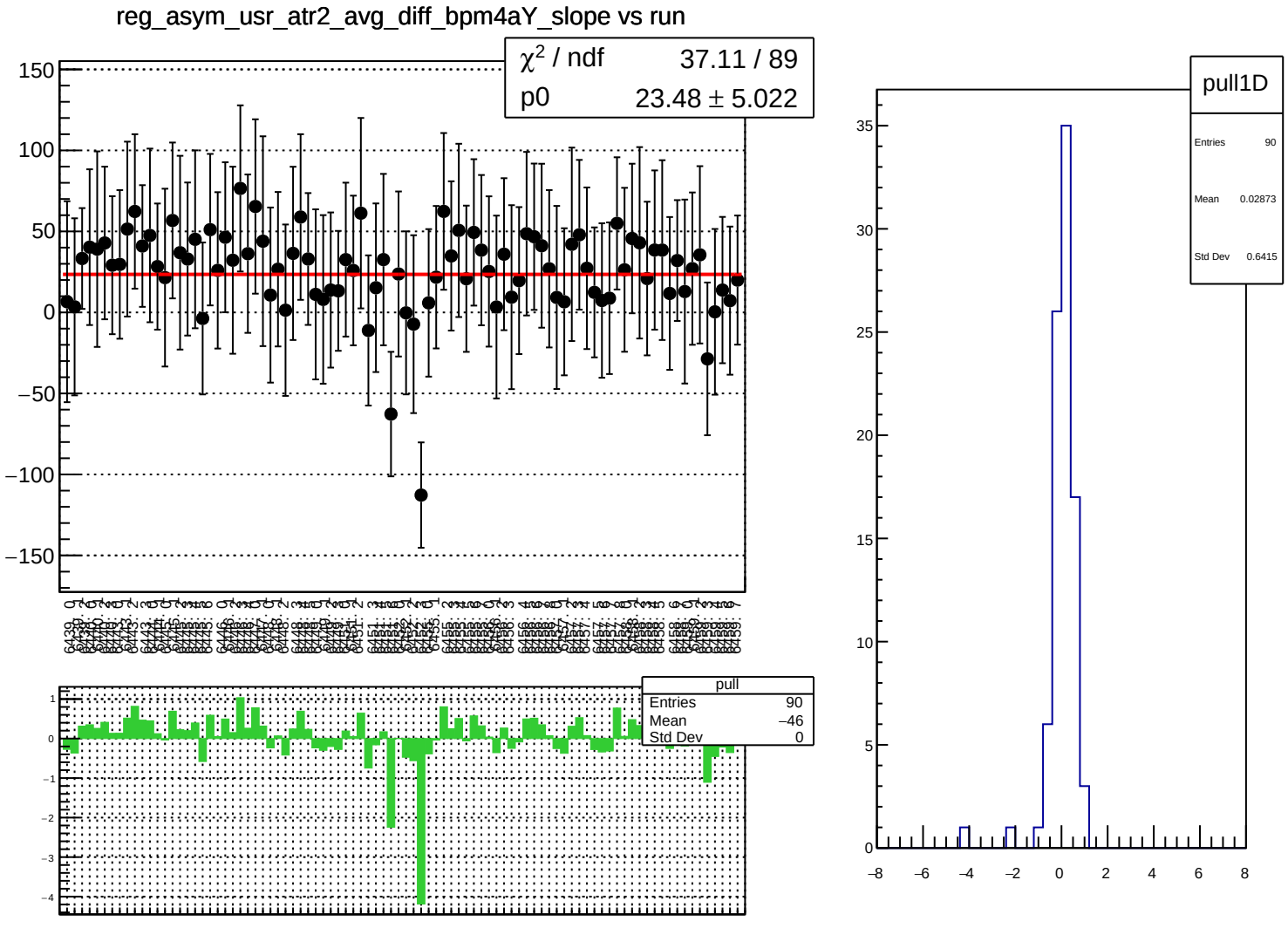

pull1D
Entries 90
Mean 0.01111
Std Dev 0.9331

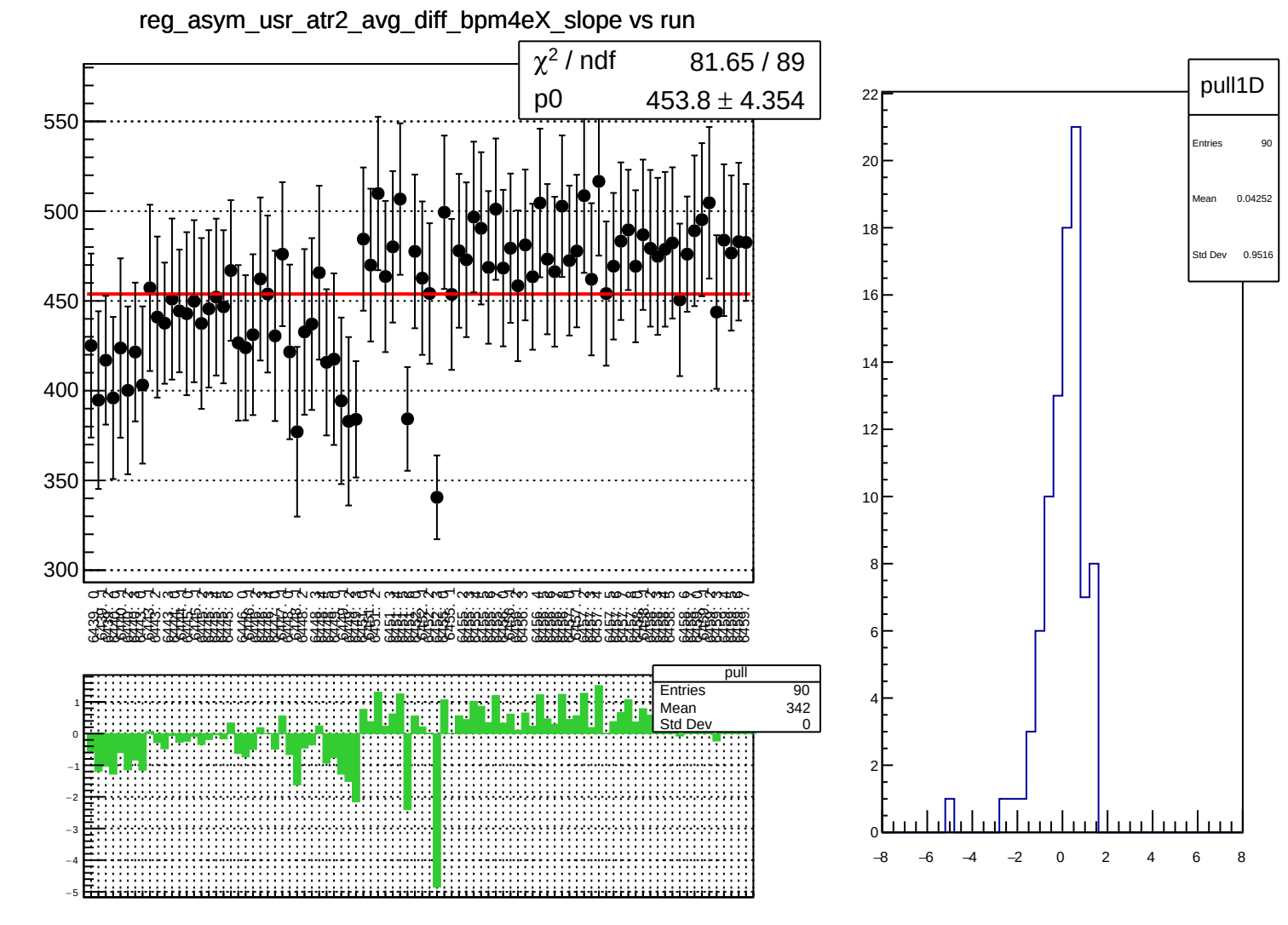

reg_asym_usr_atr1_dd_diff_bpm4eY_slope vs run
χ² / ndf 74.02 / 89
p0 25.77 ± 1.5
pull
Entries 90
Mean 130.4
Std Dev 0

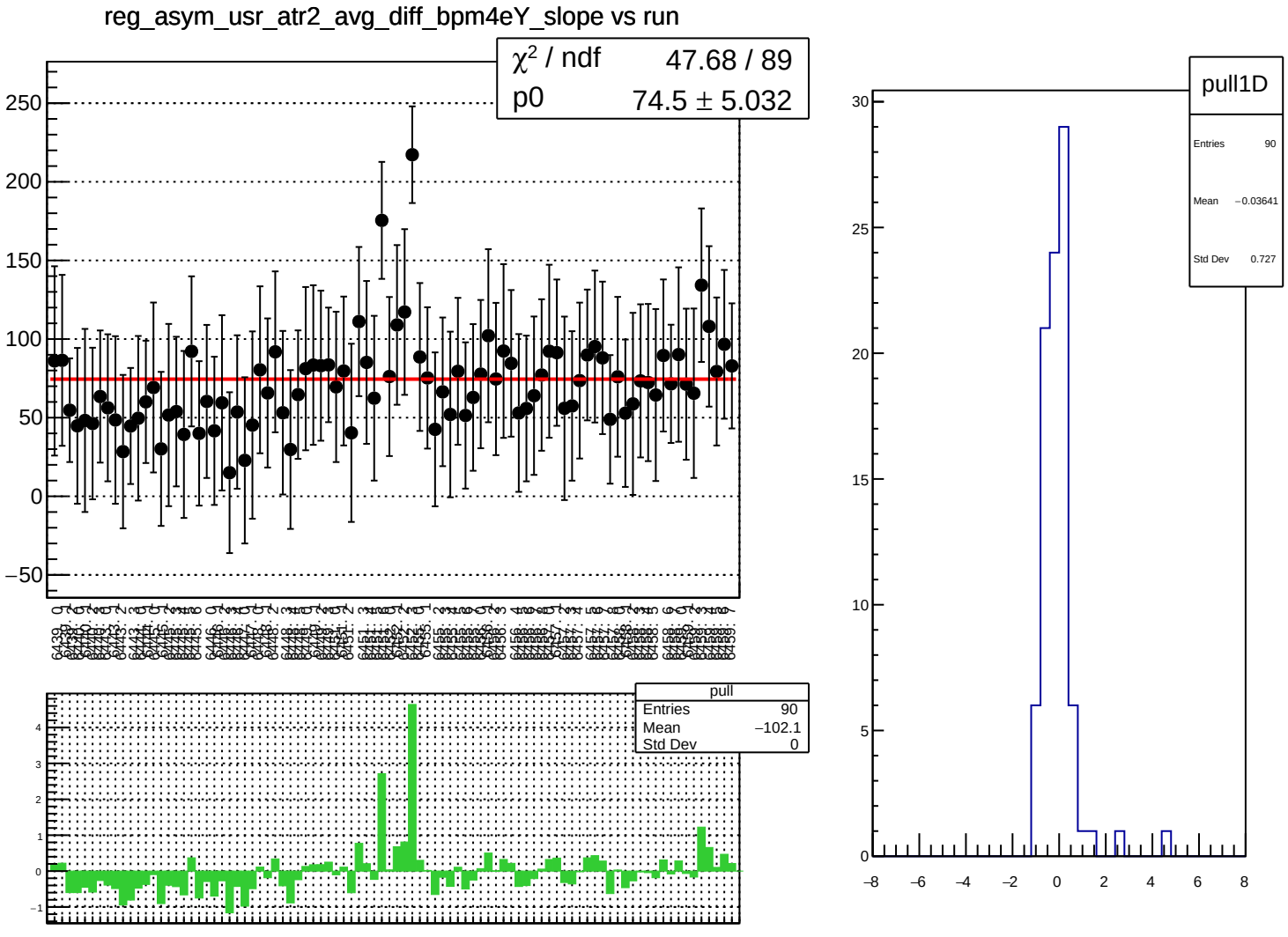

pull1D
Entries 90
Mean −0.03534
Std Dev 0.9062

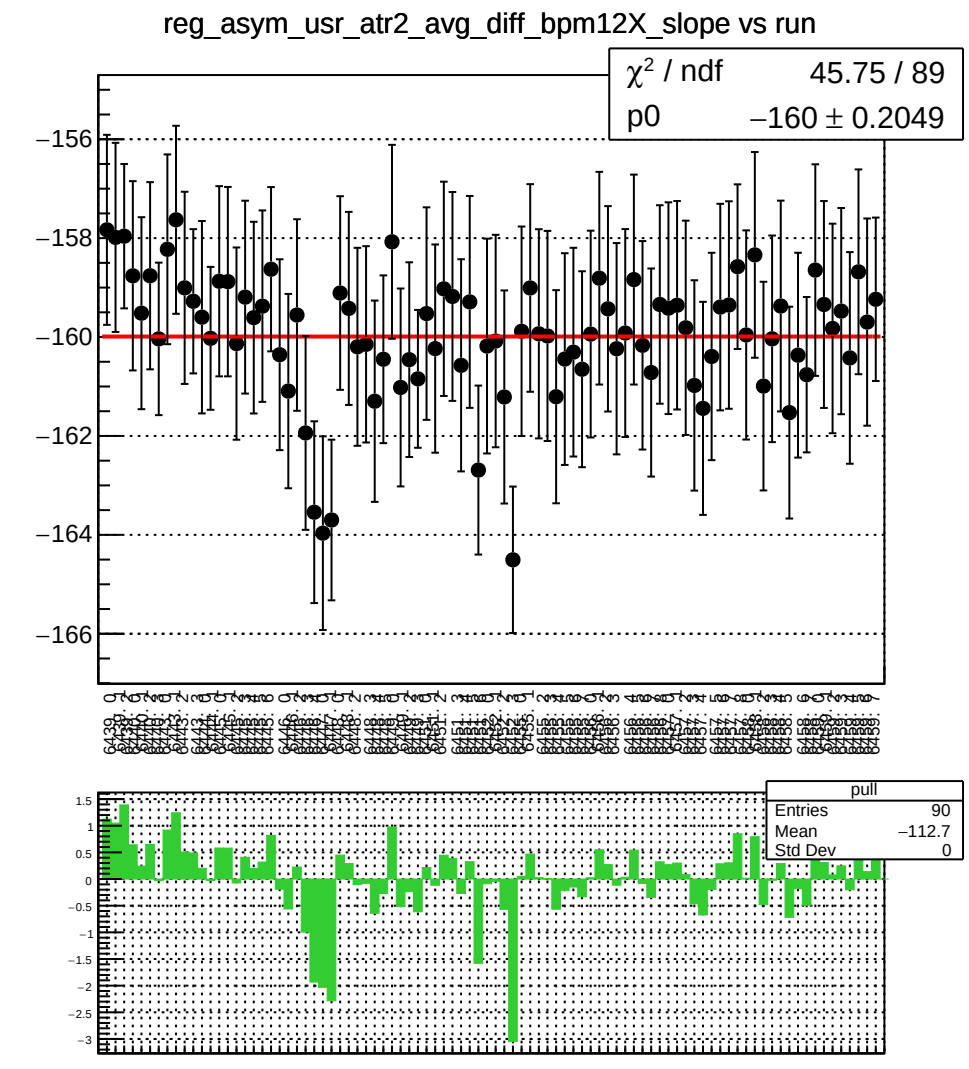

reg_asym_usr_atr1_dd_diff_bpm12X_slope vs run
χ² / ndf 94.67 / 89
p0 −6.221 ± 0.06091
pull
Entries 90
Mean 331.5
Std Dev 0
pull1D
Entries 90
Mean −0.01143
Std Dev 1.026

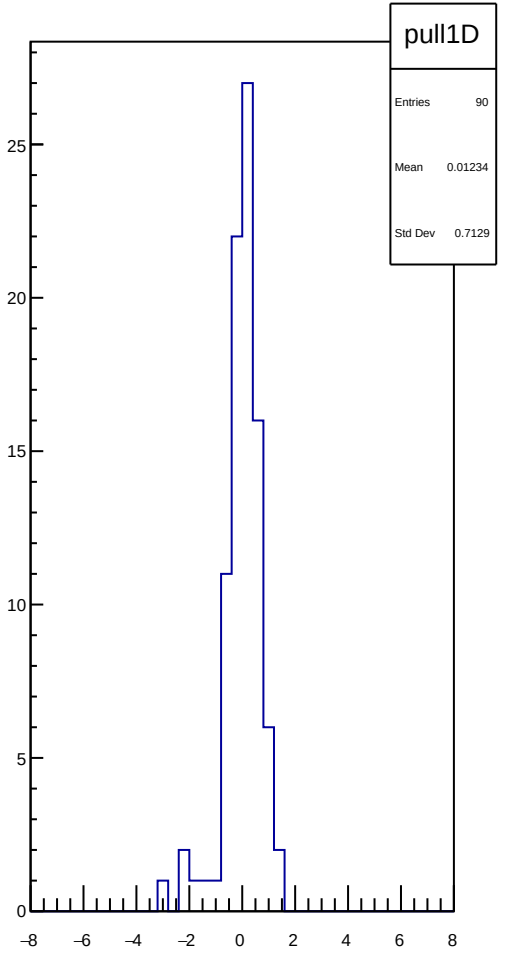

reg_asym_usr_atr2_avg_diff_bpm1X_slope vs run
χ² / ndf 73.54 / 89
p0 −340.6 ± 4.317
−200
−250
−300
−350
−400
−450
pull
Entries 90
Mean 266.2
Std Dev 0
5
4
3
2
1
0
−1
pull1D
Entries 90
Mean −0.05095
Std Dev 0.9025
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

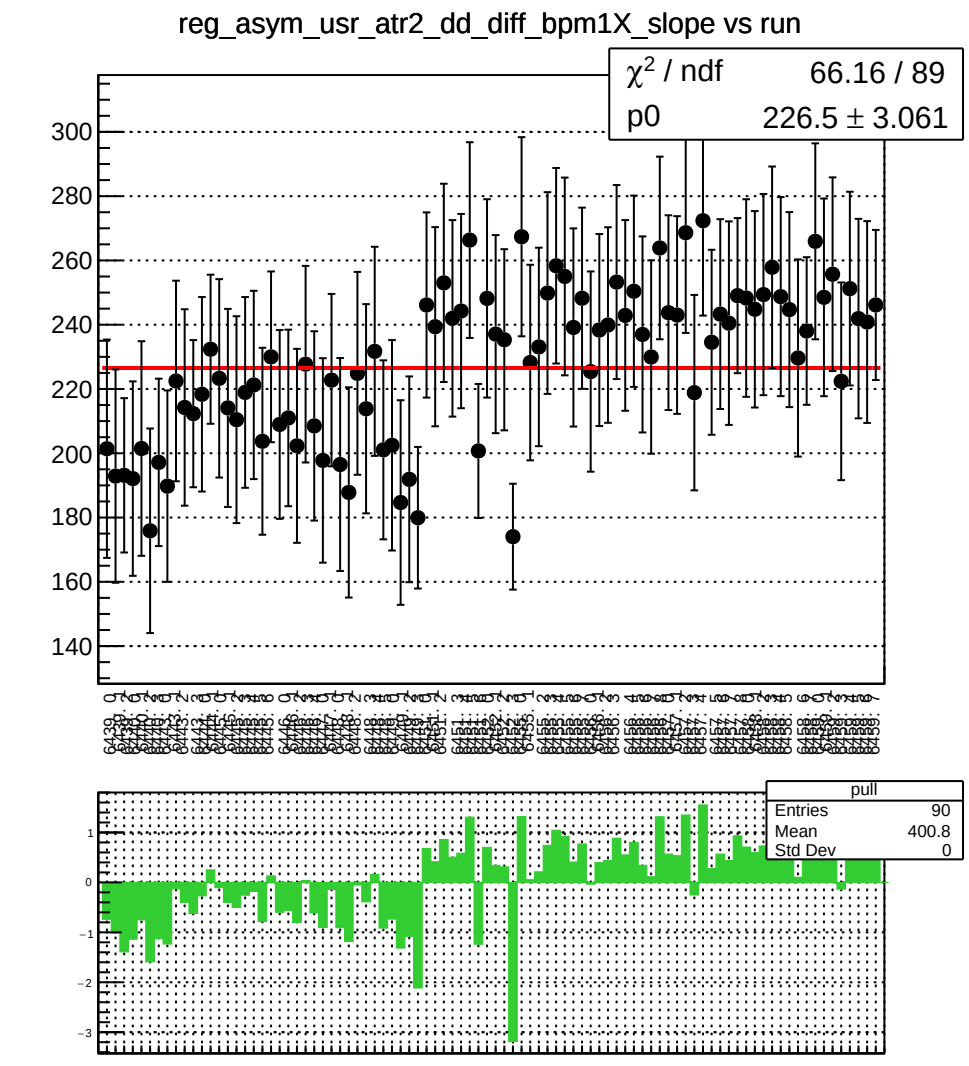

reg_asym_usr_atr2_avg_diff_bpm4aY_slope vs run
χ² / ndf 37.11 / 89
p0 23.48 ± 5.022
150
100
50
0
−50
−100
−150
pull
Entries 90
Mean −46
Std Dev 0
1
0
−1
−2
−3
−4
pull1D
Entries 90
Mean 0.02873
Std Dev 0.6415
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

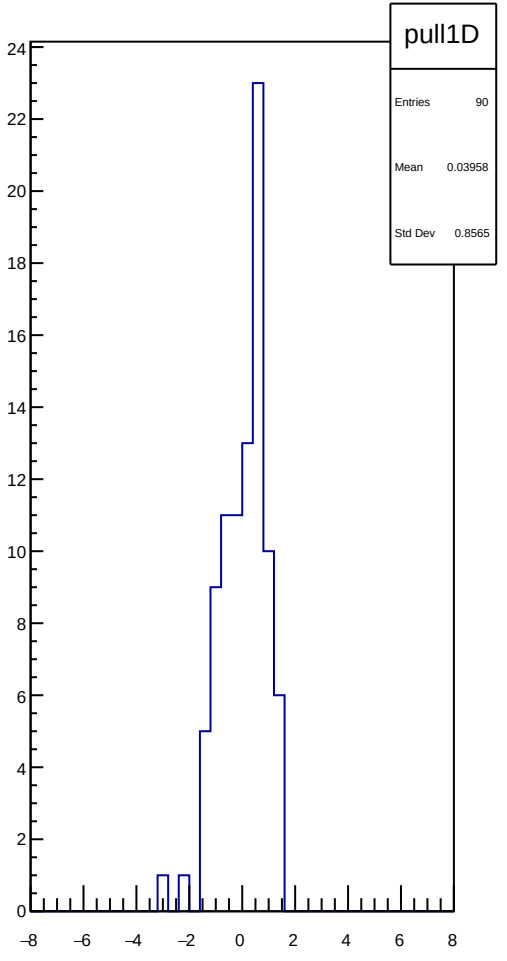

reg_asym_usr_atr2_avg_diff_bpm4eX_slope vs run
χ² / ndf 81.65 / 89
p0 453.8 ± 4.354
pull
Entries 90
Mean 342
Std Dev 0
pull1D
Entries 90
Mean 0.04252
Std Dev 0.9516

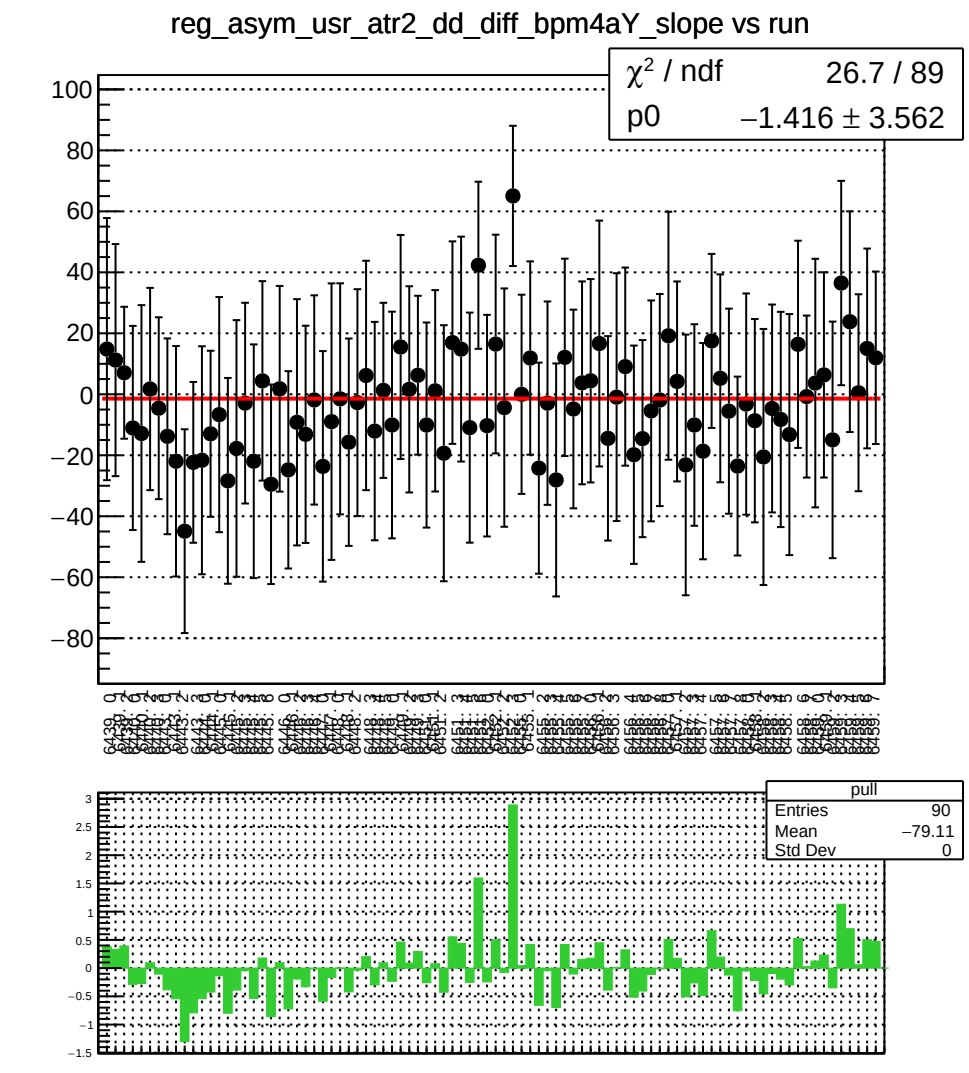

reg_asym_usr_atr2_avg_diff_bpm4eY_slope vs run
χ² / ndf 47.68 / 89
p0 74.5 ± 5.032
pull
Entries 90
Mean −102.1
Std Dev 0
pull1D
Entries 90
Mean −0.03641
Std Dev 0.727

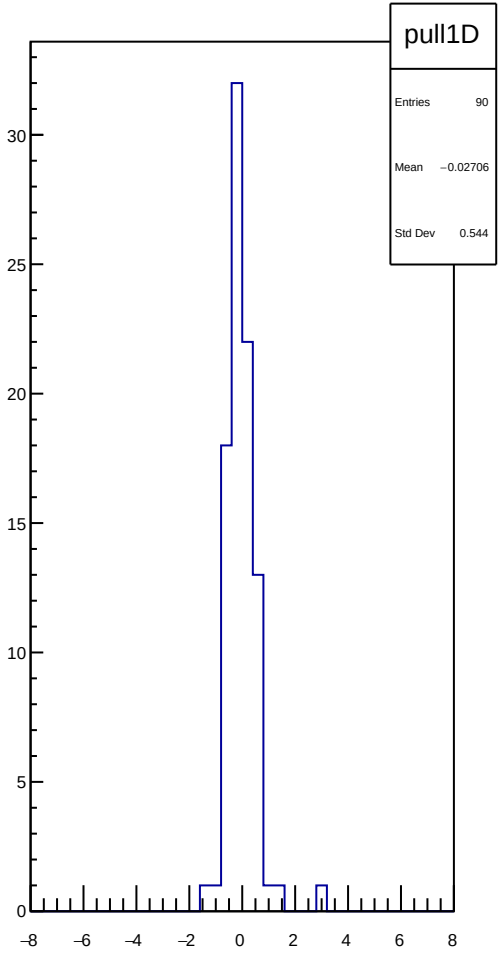

reg_asym_usr_atr2_avg_diff_bpm12X_slope vs run
χ² / ndf 45.75 / 89
p0 −160 ± 0.2049
−156
−158
−160
−162
−164
−166
pull
Entries 90
Mean −112.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

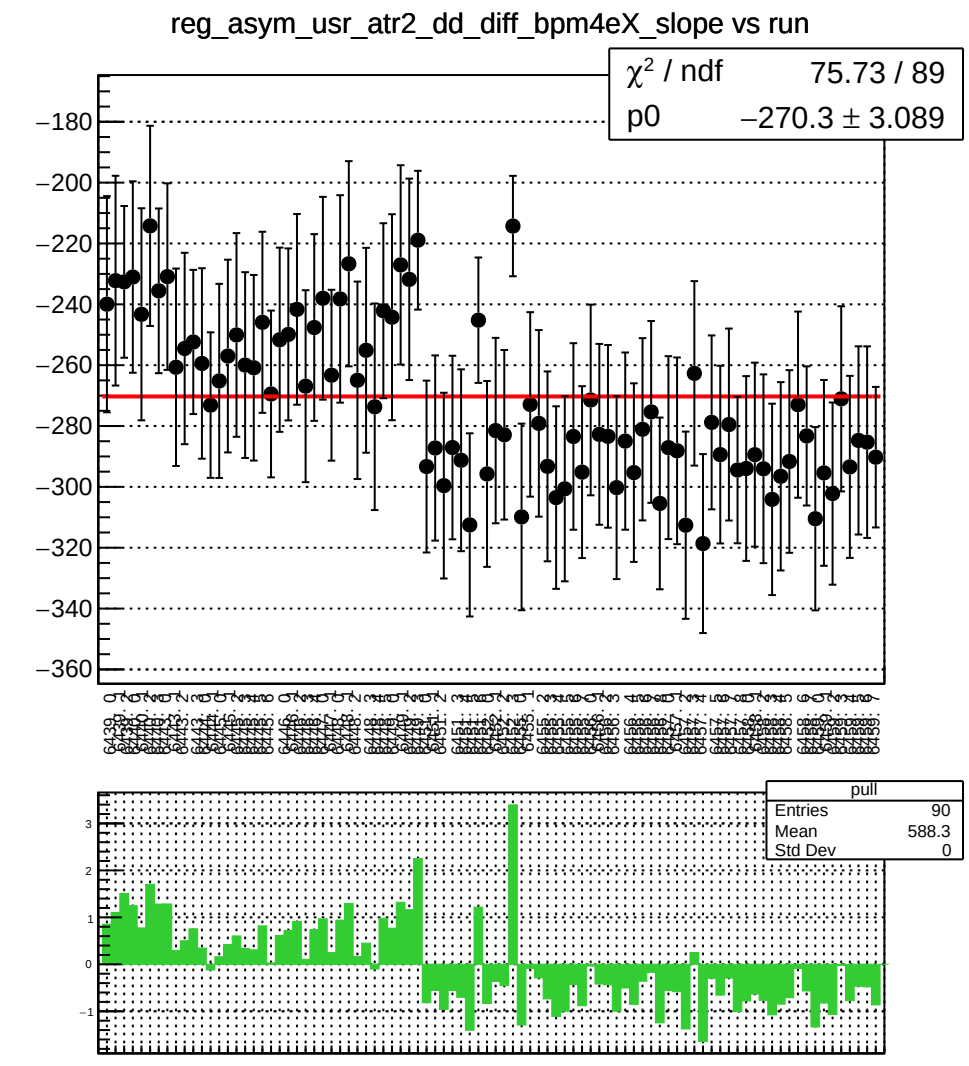

pull1D
Entries 90
Mean 0.01234
Std Dev 0.7129
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

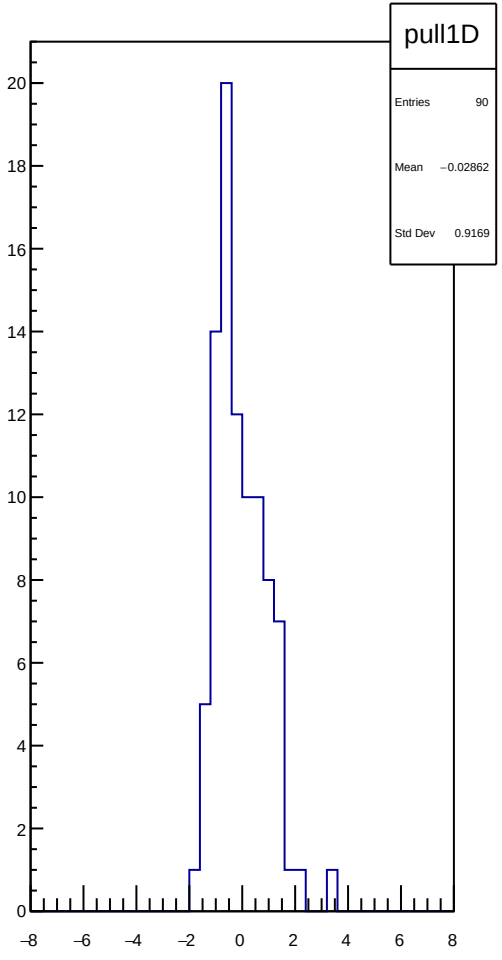

reg_asym_usr_atr2_dd_diff_bpm1X_slope vs run
χ² / ndf 66.16 / 89
p0 226.5 ± 3.061
pull
Entries 90
Mean 400.8
Std Dev 0

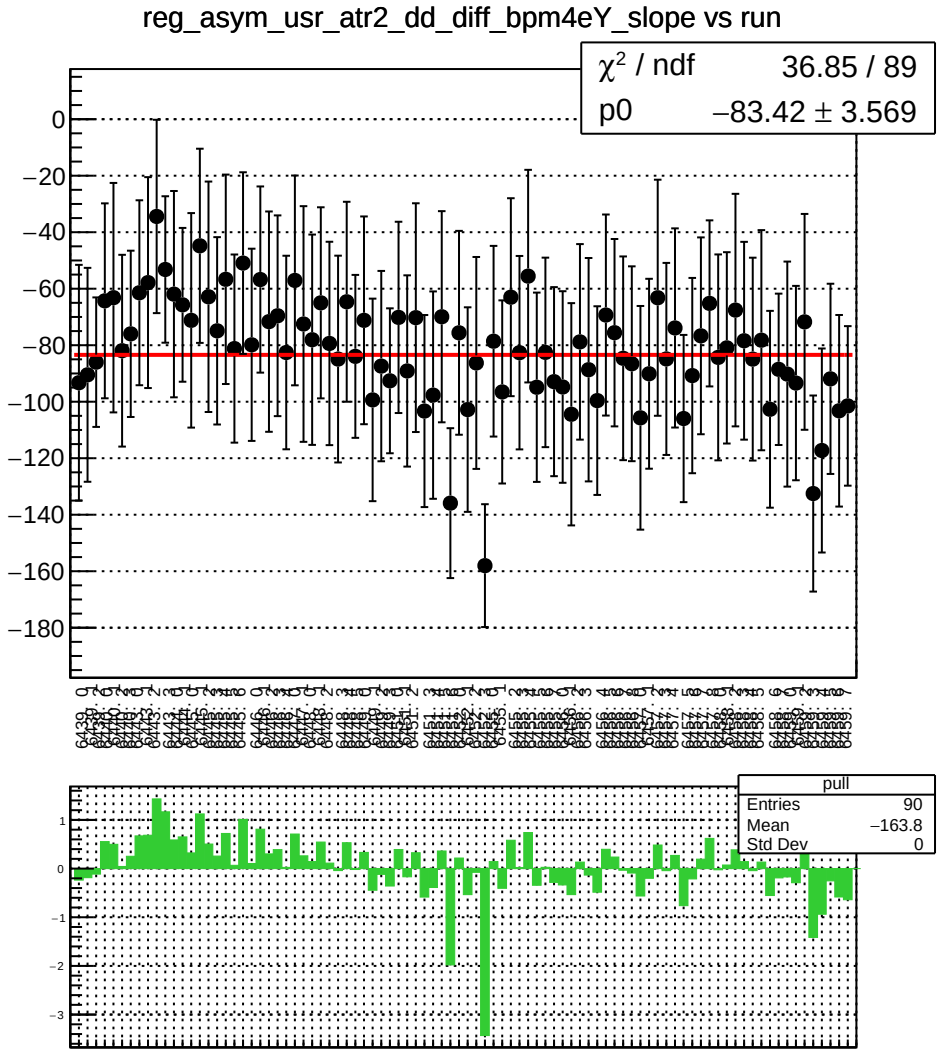

pull1D
Entries 90
Mean 0.03958
Std Dev 0.8565

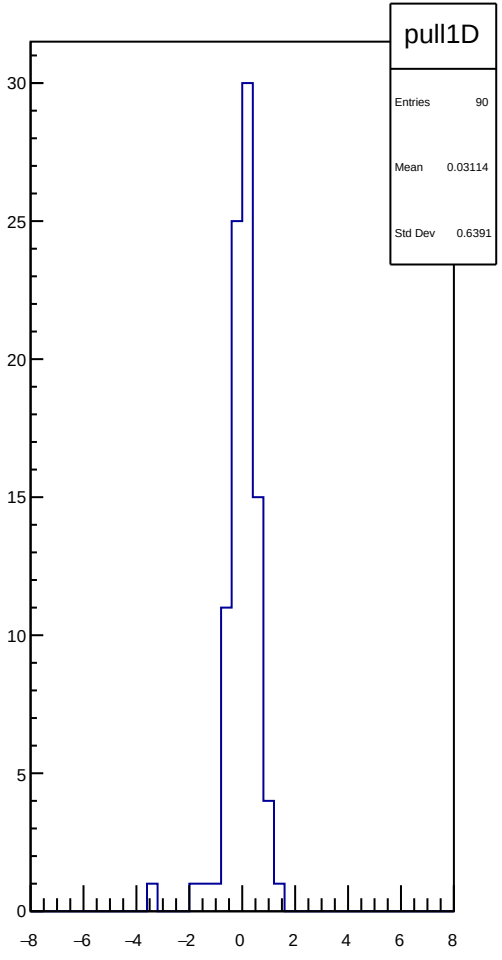

reg_asym_usr_atr2_dd_diff_bpm4aY_slope vs run
χ² / ndf 26.7 / 89
p0 −1.416 ± 3.562
pull
Entries 90
Mean −79.11
Std Dev 0

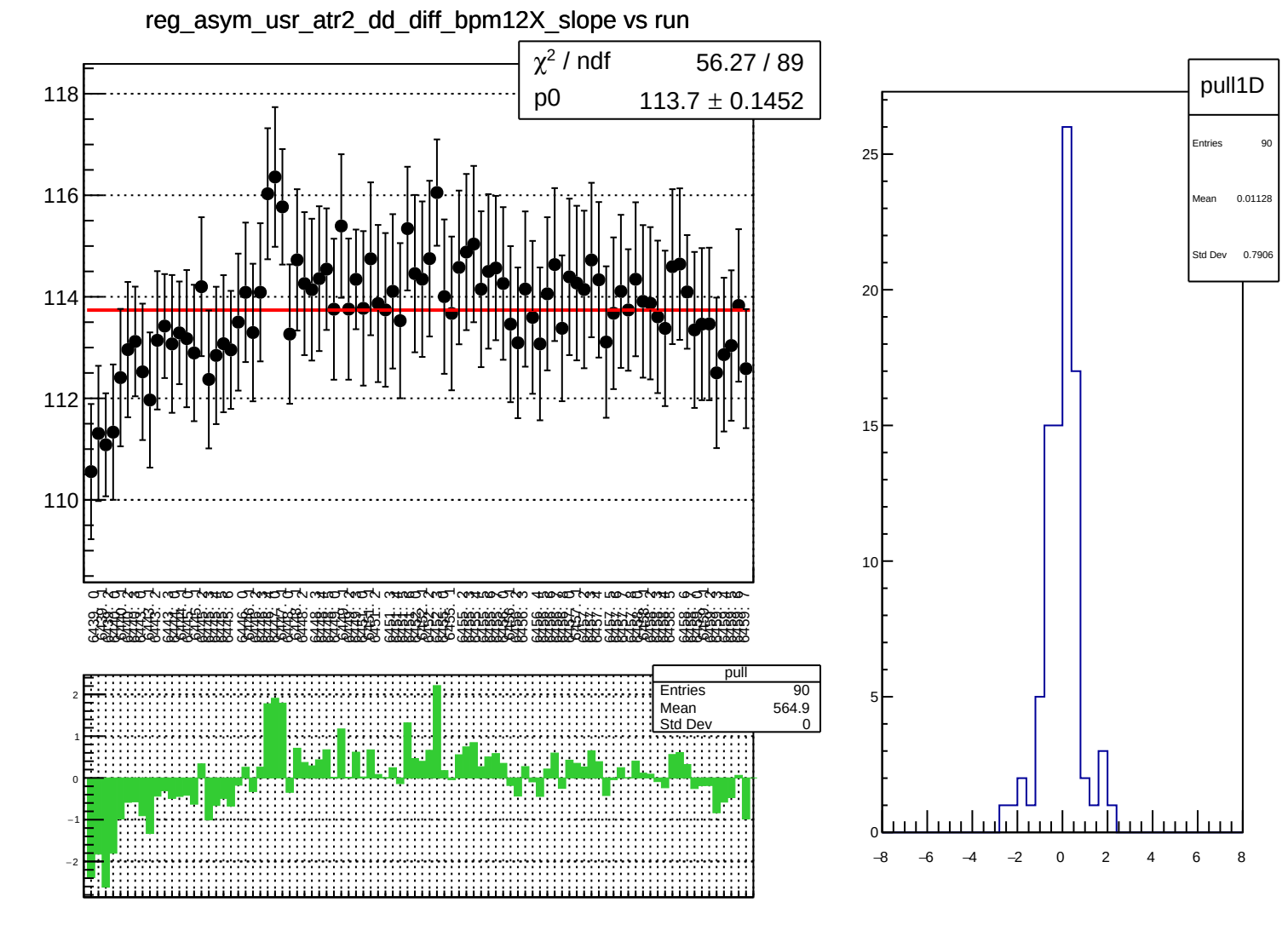

pull1D
Entries 90
Mean −0.02706
Std Dev 0.544

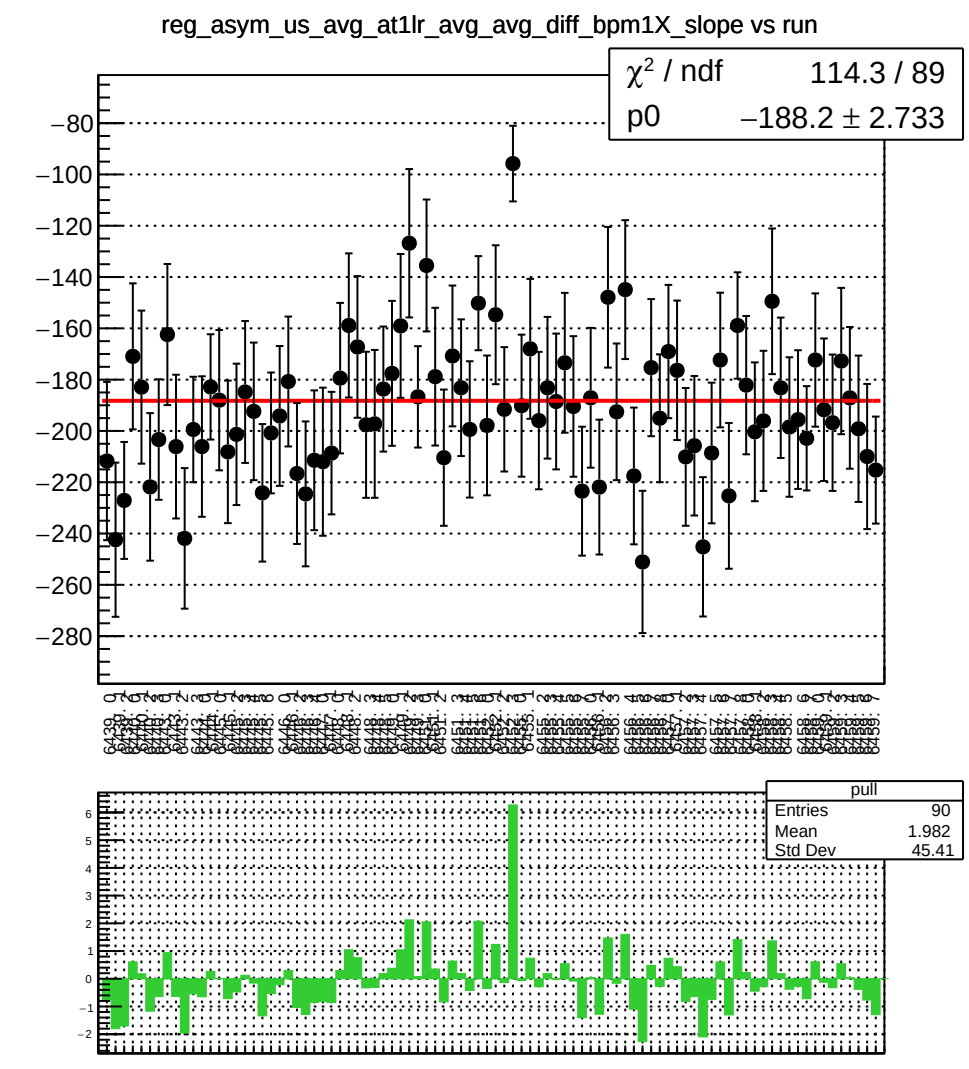

reg_asym_usr_atr2_dd_diff_bpm4eX_slope vs run
χ² / ndf 75.73 / 89
p0 −270.3 ± 3.089
pull
Entries 90
Mean 588.3
Std Dev 0

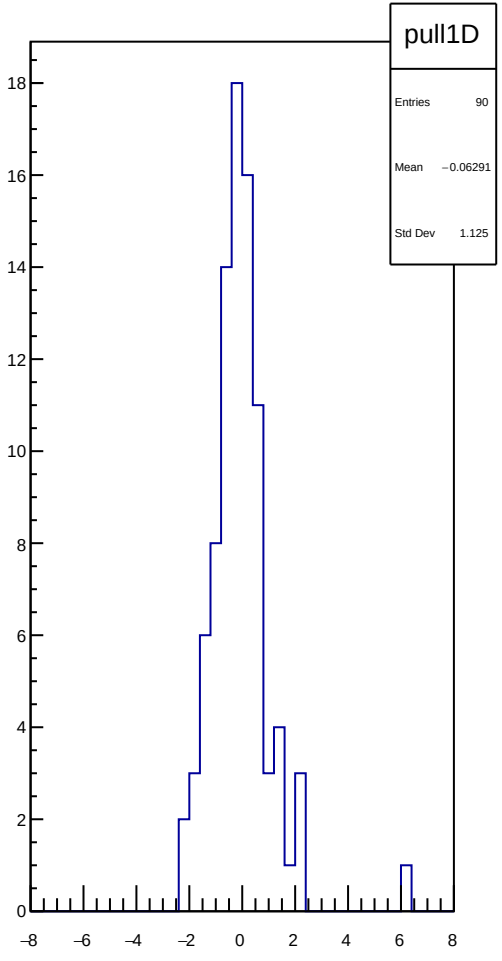

pull1D
Entries 90
Mean −0.02862
Std Dev 0.9169

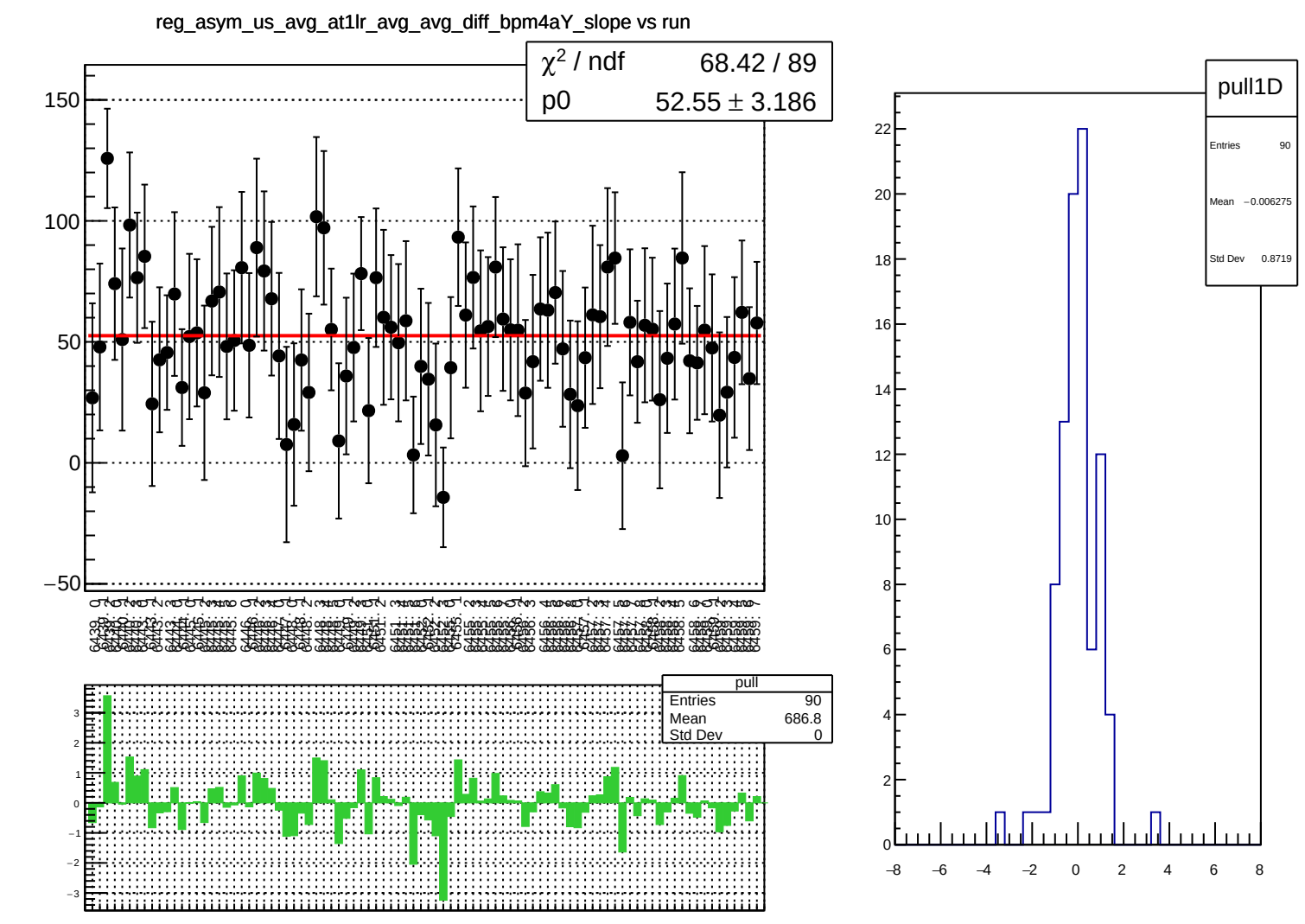

reg_asym_usr_atr2_dd_diff_bpm4eY_slope vs run
χ² / ndf 36.85 / 89
p0 −83.42 ± 3.569
pull
Entries 90
Mean −163.8
Std Dev 0

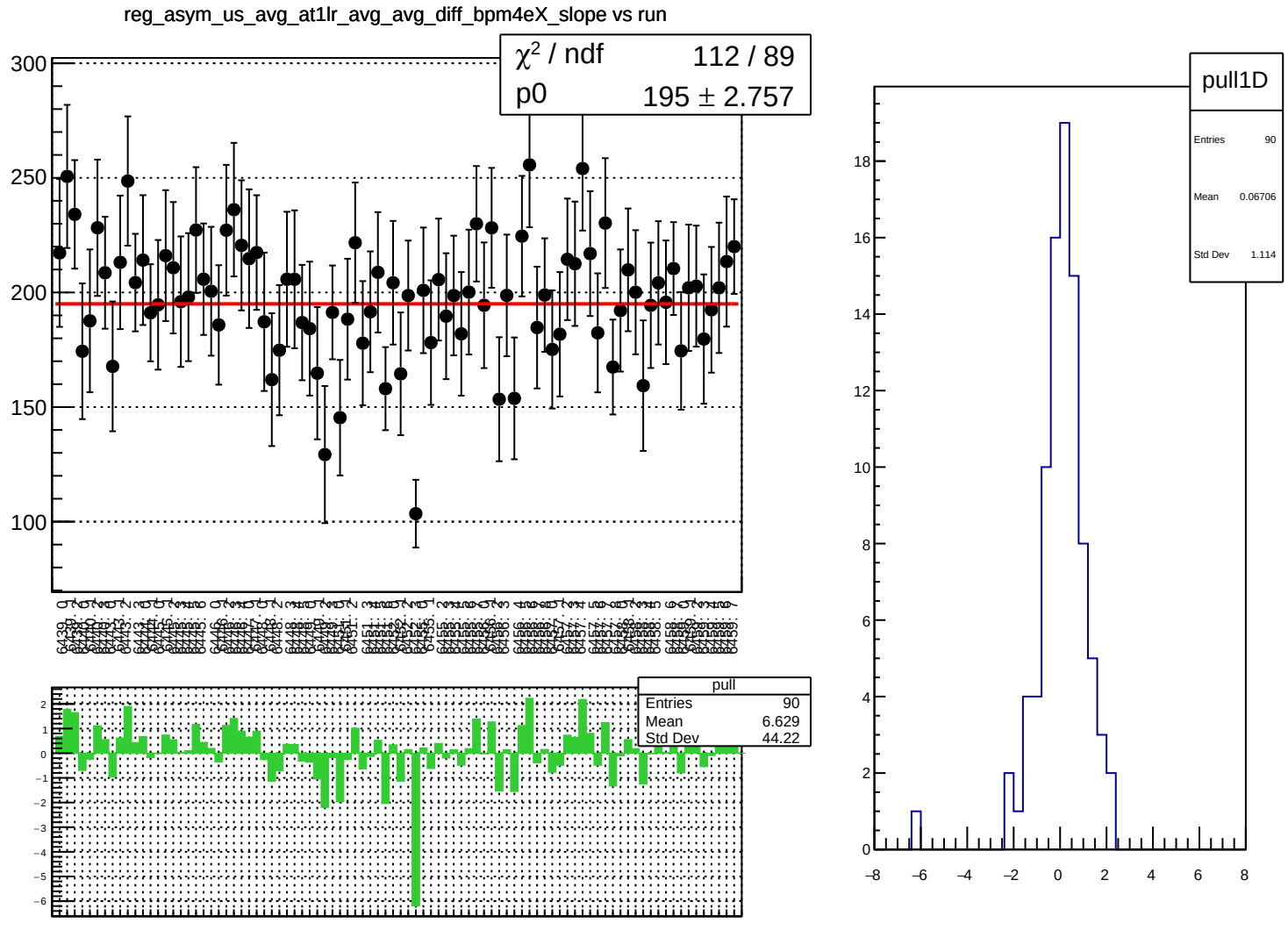

pull1D
Entries 90
Mean 0.03114
Std Dev 0.6391

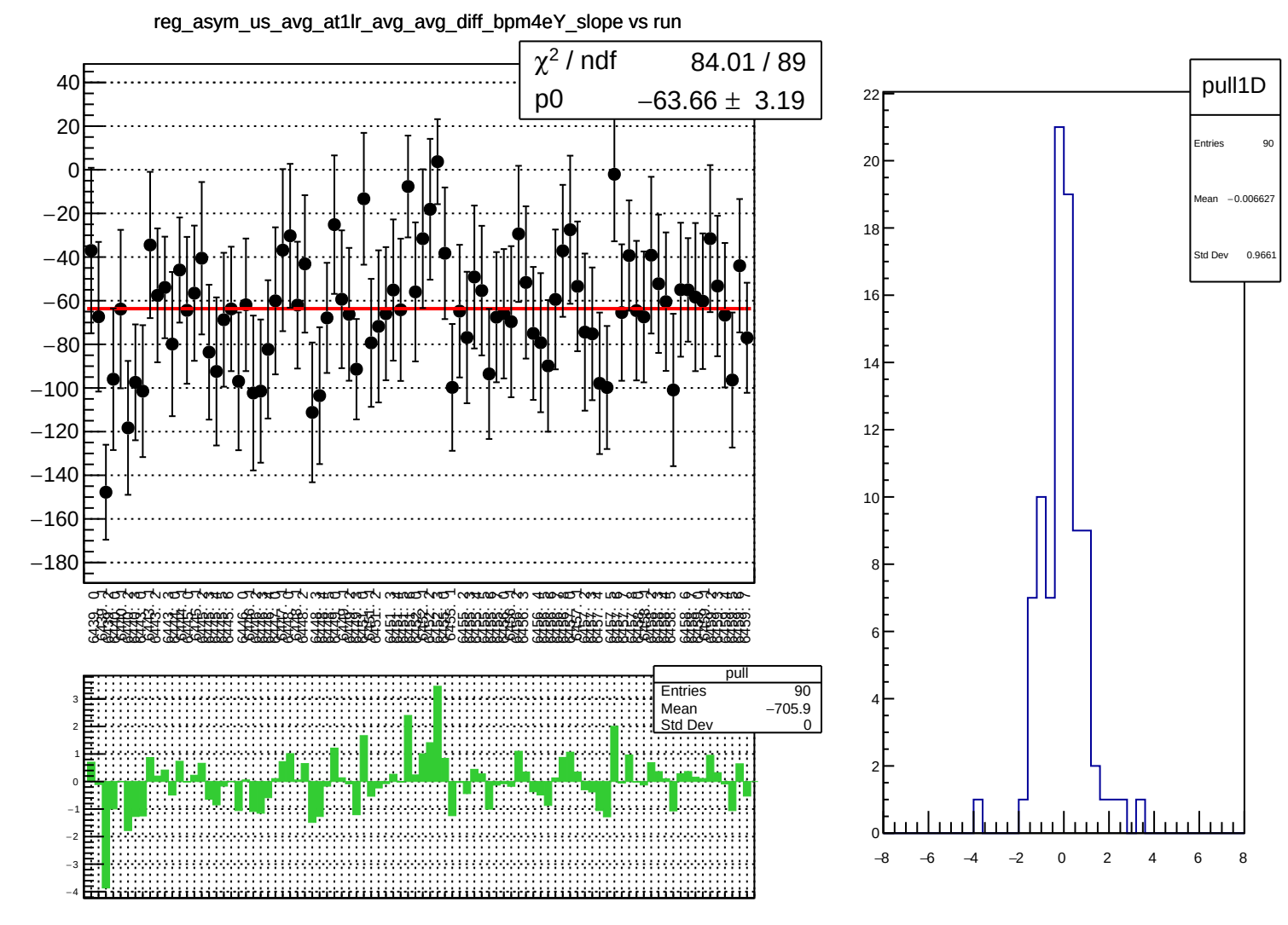

reg_asym_usr_atr2_dd_diff_bpm12X_slope vs run
χ² / ndf 56.27 / 89
p0 113.7 ± 0.1452
118
116
114
112
110
pull
Entries 90
Mean 564.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 90
Mean 0.01128
Std Dev 0.7906
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

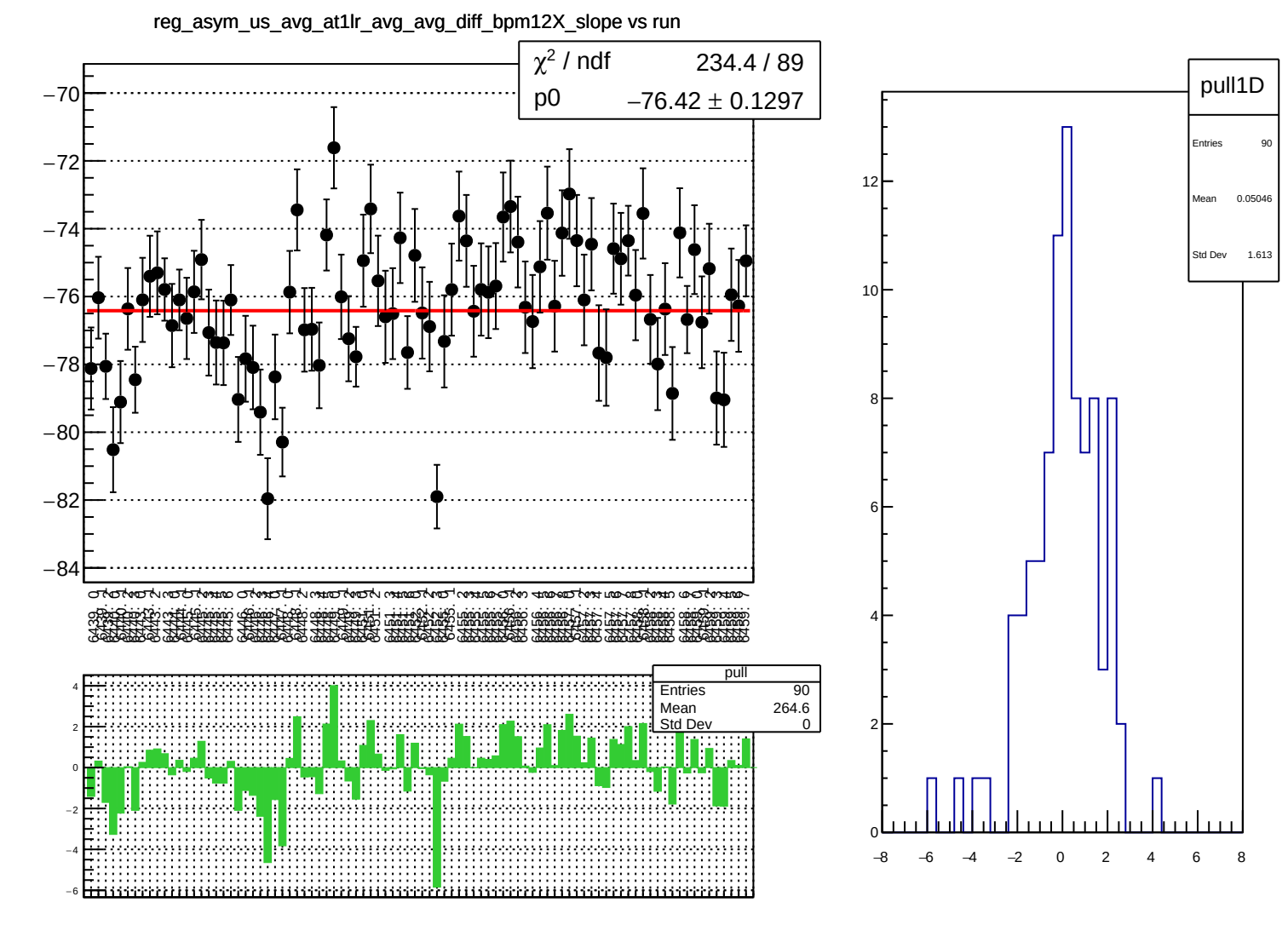

reg_asym_us_avg_at1lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 114.3 / 89
p0 −188.2 ± 2.733
pull
Entries 90
Mean 1.982
Std Dev 45.41

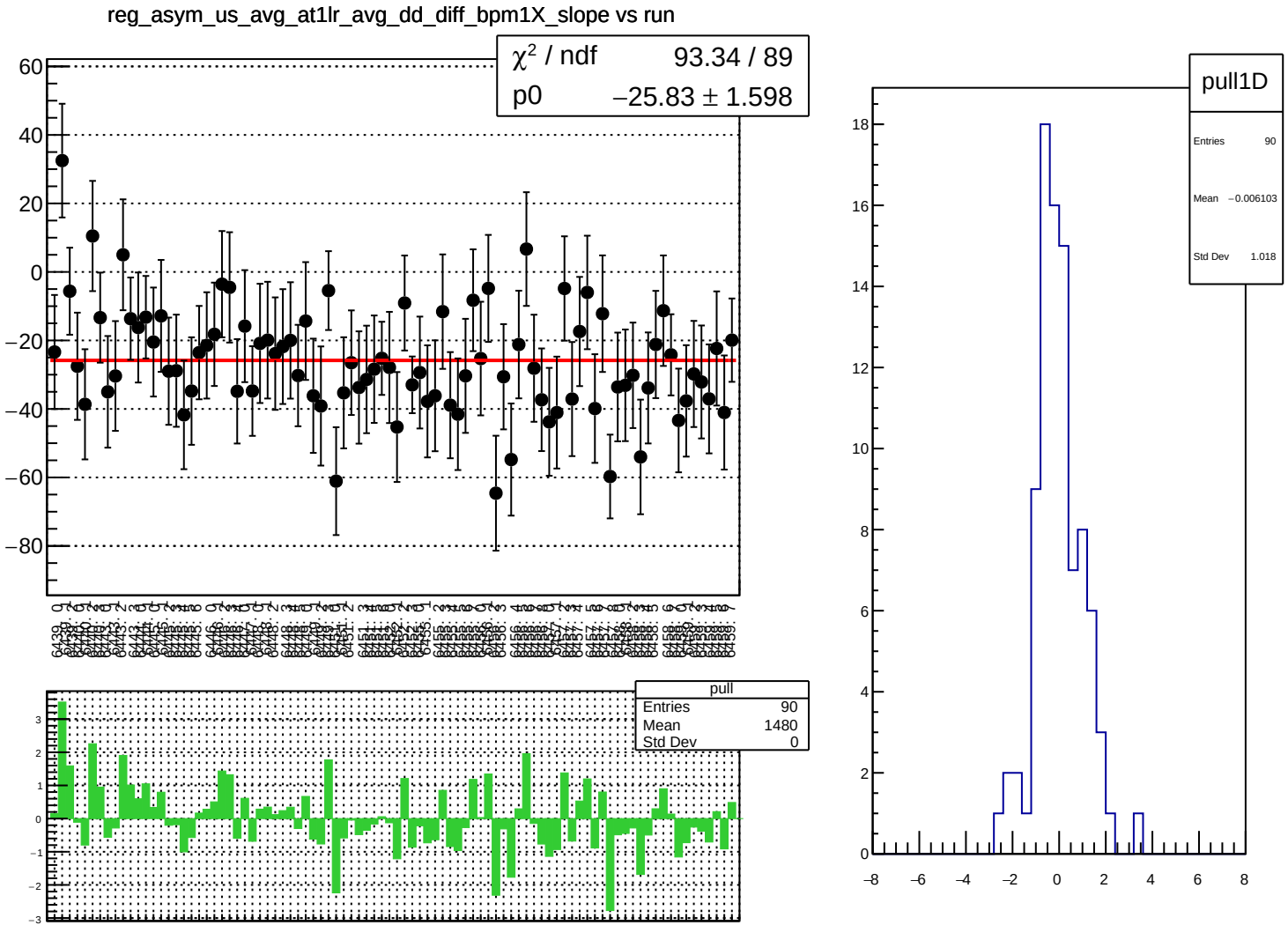

pull1D
Entries 90
Mean −0.06291
Std Dev 1.125

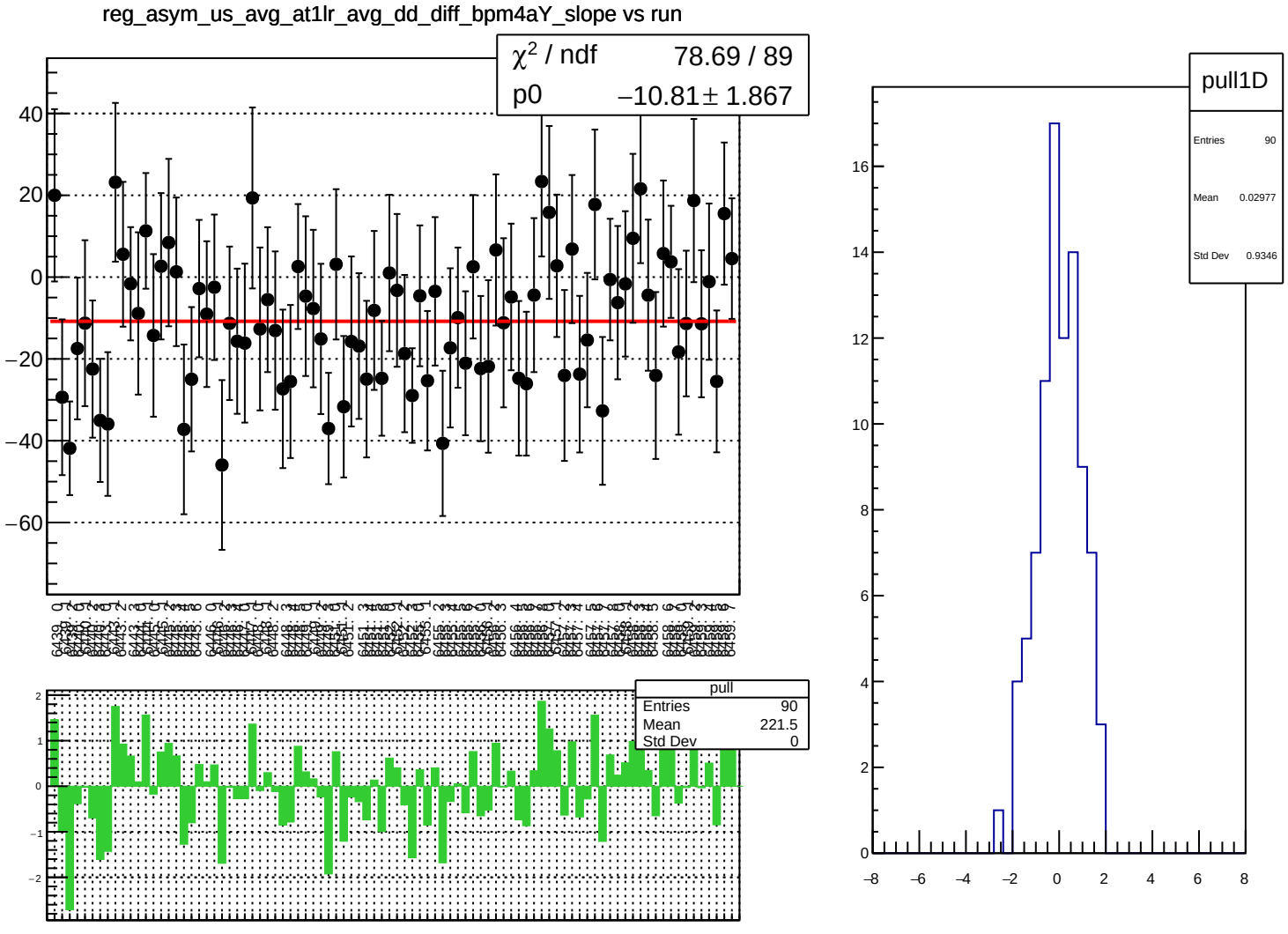

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 68.42 / 89
p0 52.55 ± 3.186
150
100
50
0
−50
pull
Entries 90
Mean 686.8
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 90
Mean −0.006275
Std Dev 0.8719
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

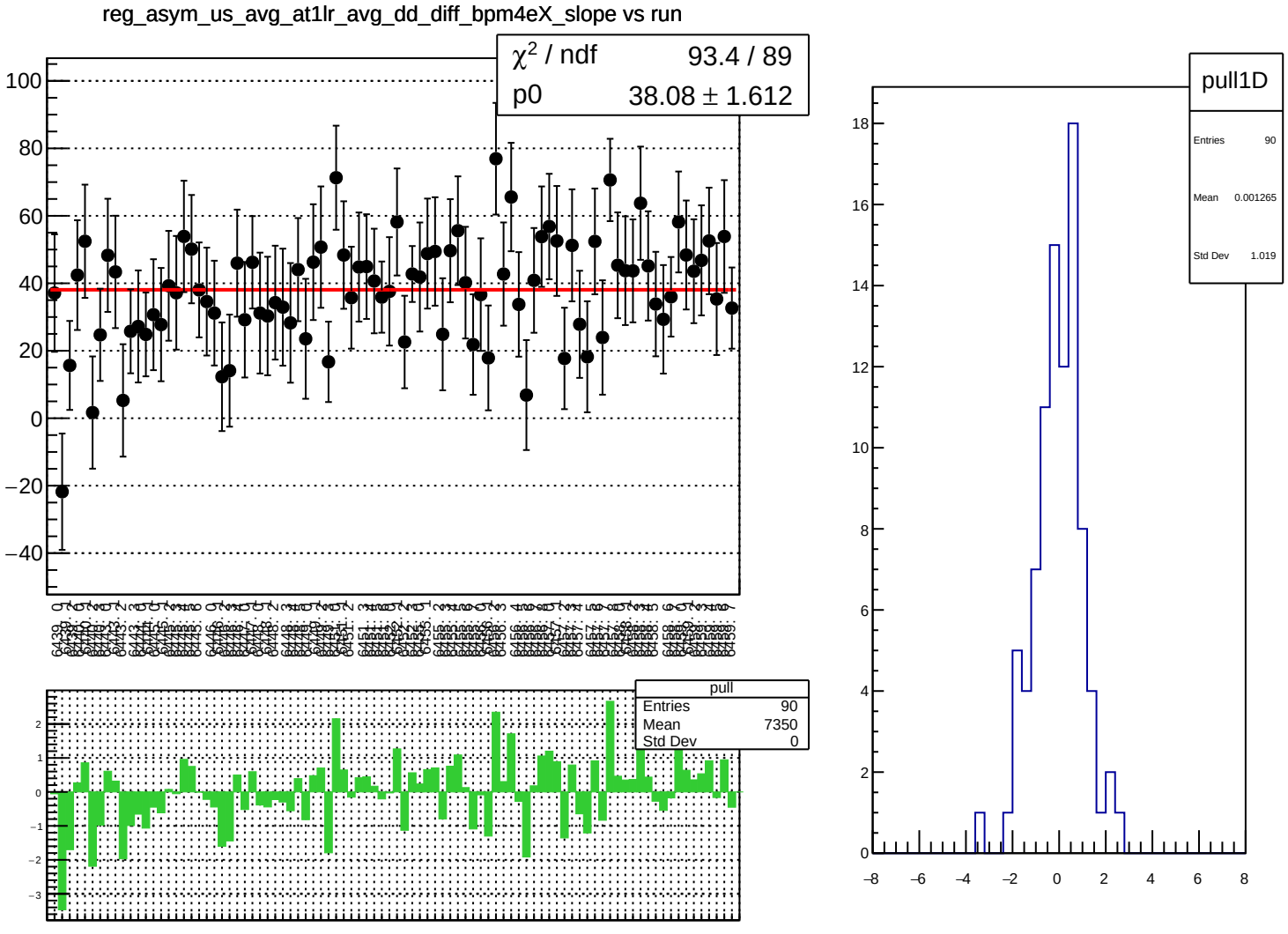

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 112 / 89
p0 195 ± 2.757
300
250
200
150
100
pull
Entries 90
Mean 6.629
Std Dev 44.22
2
1
0
−1
−2
−3
−4
−5
−6
pull1D
Entries 90
Mean 0.06706
Std Dev 1.114
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

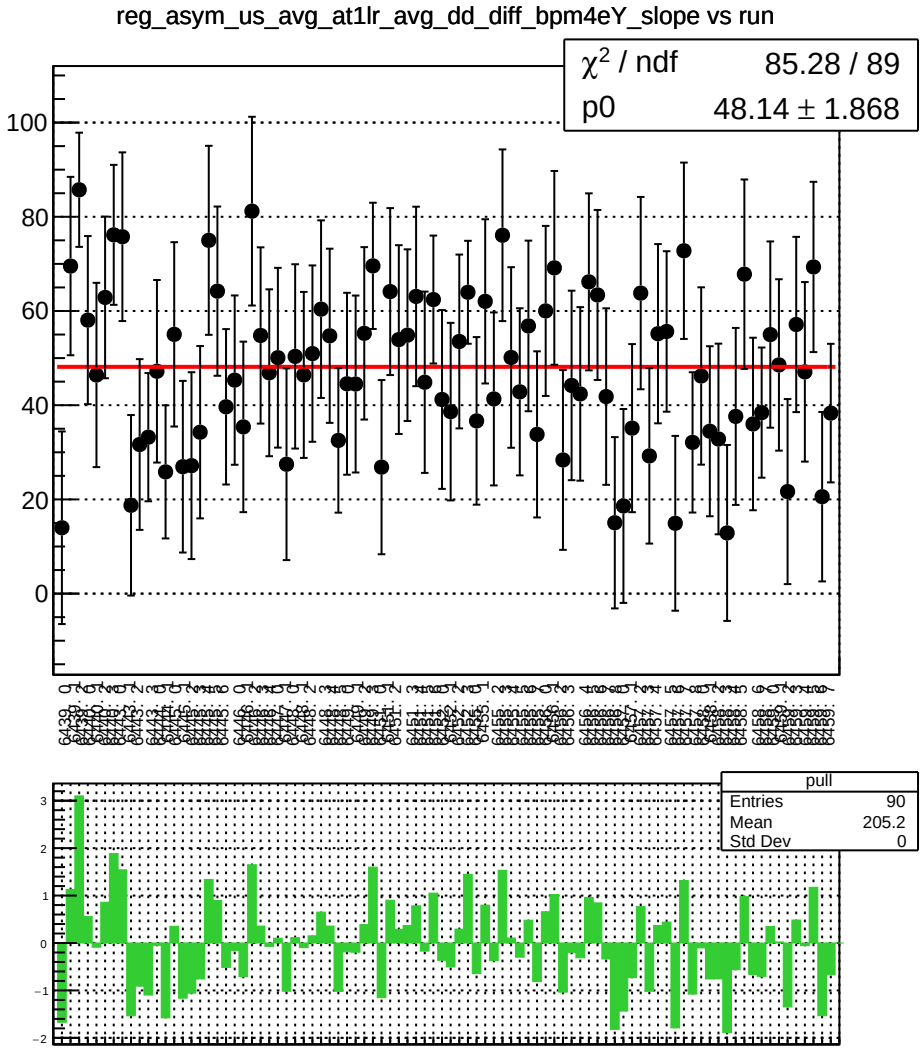

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 84.01 / 89
p0 −63.66 ± 3.19
pull
Entries 90
Mean −705.9
Std Dev 0
pull1D
Entries 90
Mean −0.006627
Std Dev 0.9661

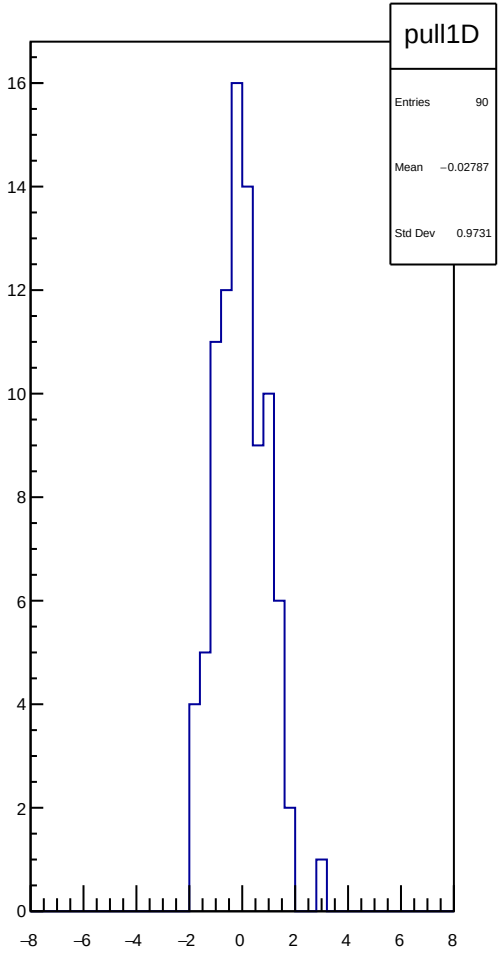

reg_asym_us_avg_at1lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 234.4 / 89
p0 −76.42 ± 0.1297
pull
Entries 90
Mean 264.6
Std Dev 0
pull1D
Entries 90
Mean 0.05046
Std Dev 1.613

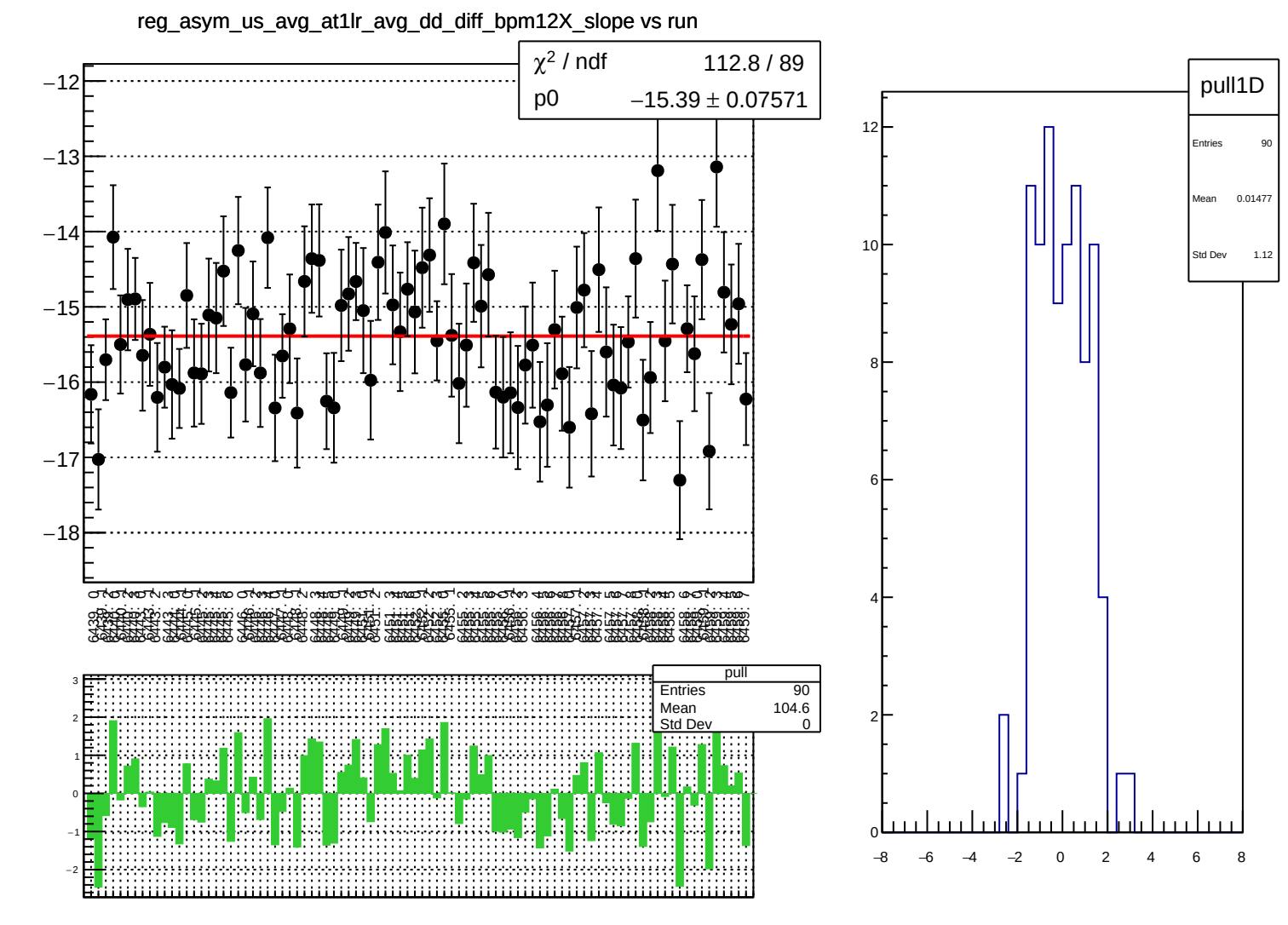

reg_asym_us_avg_at1lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 93.34 / 89
p0 −25.83 ± 1.598
pull
Entries 90
Mean 1480
Std Dev 0
pull1D
Entries 90
Mean −0.006103
Std Dev 1.018

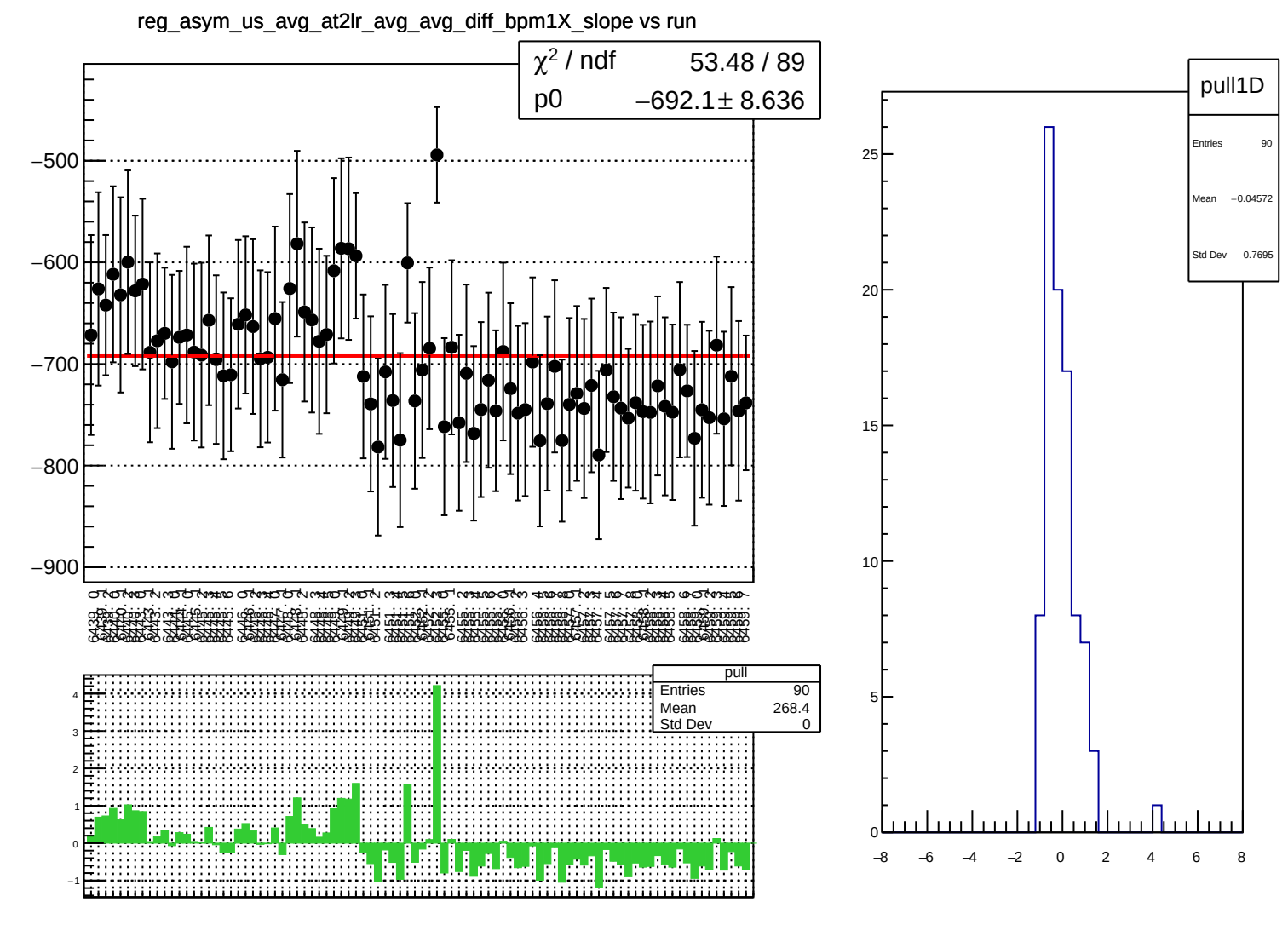

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 78.69 / 89
p0 −10.81 ± 1.867
pull
Entries 90
Mean 221.5
Std Dev 0
pull1D
Entries 90
Mean 0.02977
Std Dev 0.9346

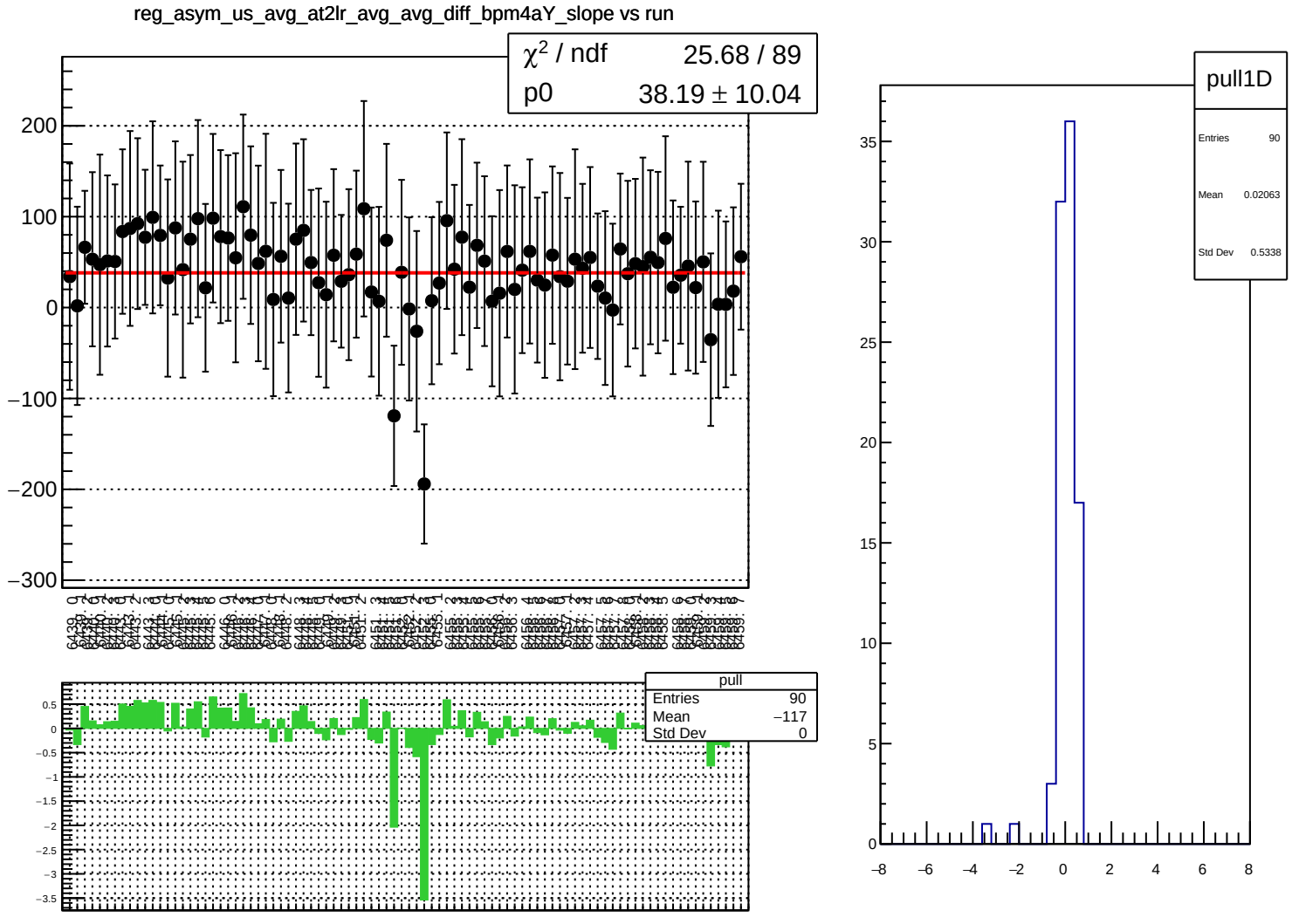

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 93.4 / 89
p0 38.08 ± 1.612
pull
Entries 90
Mean 7350
Std Dev 0
pull1D
Entries 90
Mean 0.001265
Std Dev 1.019

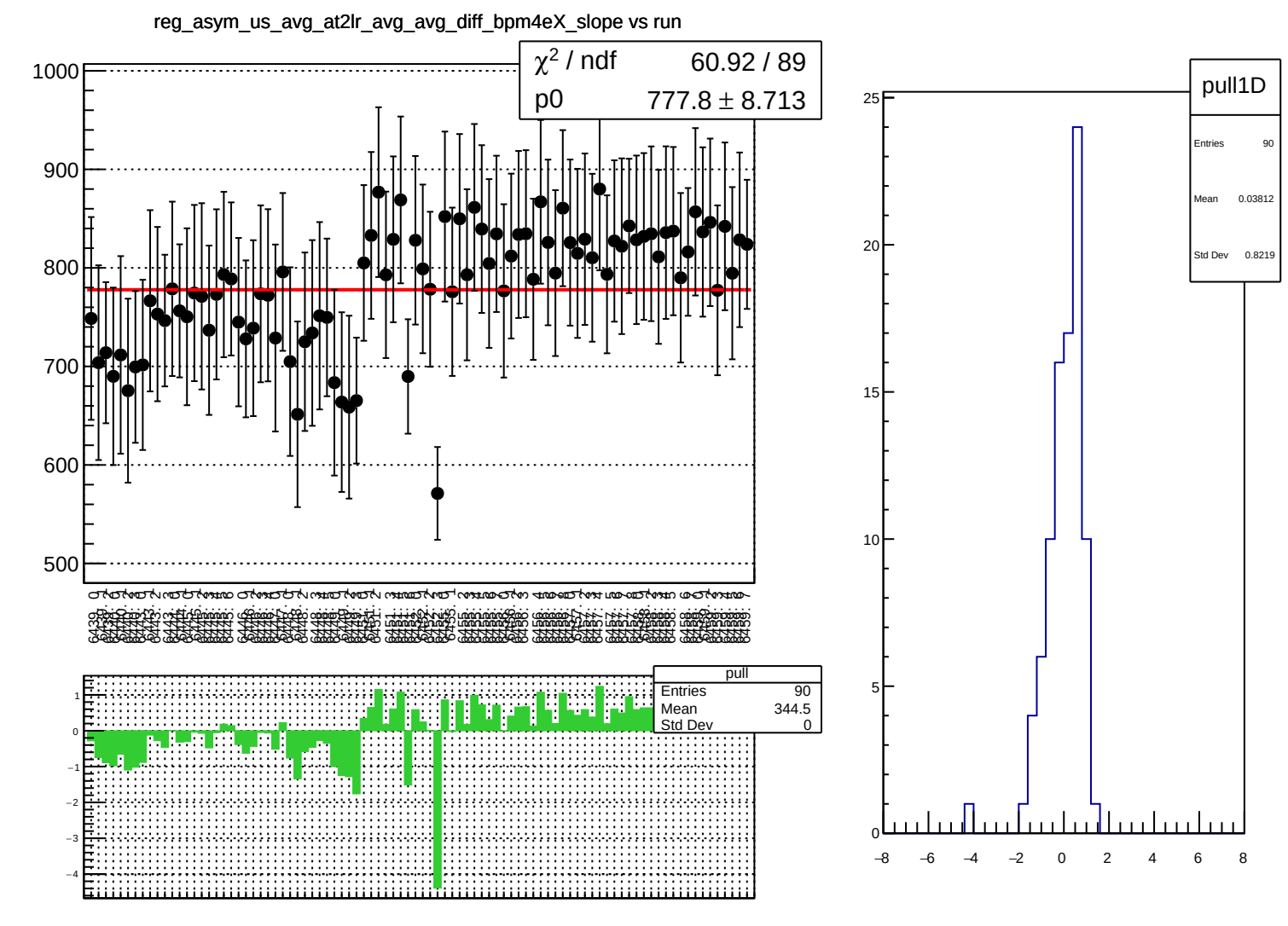

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 85.28 / 89
p0 48.14 ± 1.868
pull
Entries 90
Mean 205.2
Std Dev 0

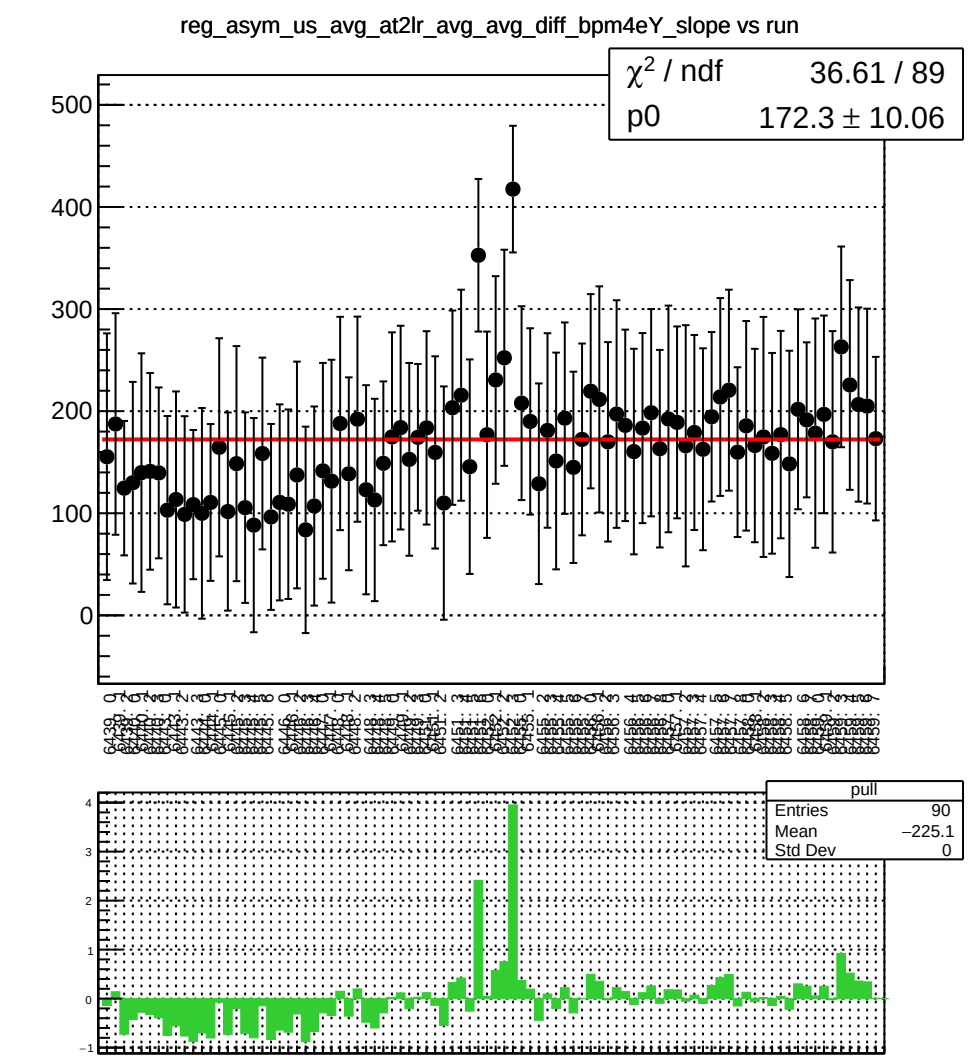

pull1D
Entries 90
Mean −0.02787
Std Dev 0.9731

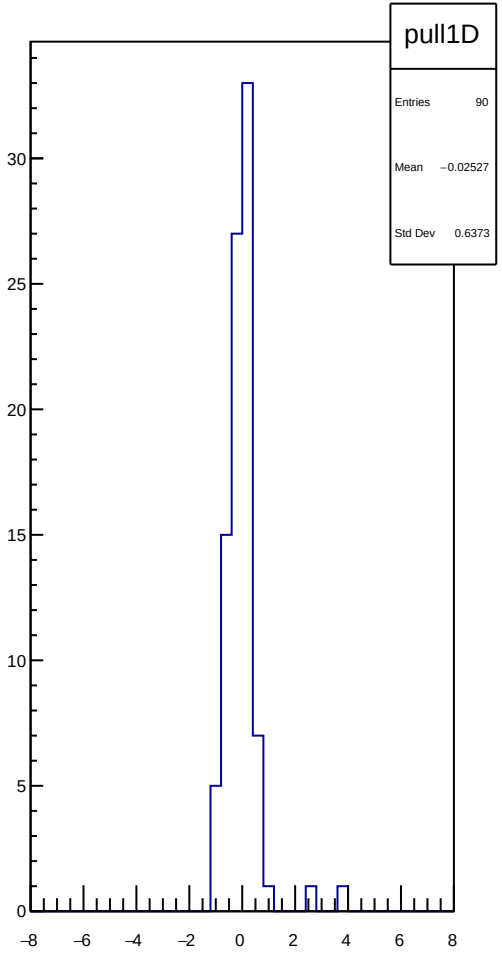

reg_asym_us_avg_at1lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 112.8 / 89
p0 −15.39 ± 0.07571
pull
Entries 90
Mean 104.6
Std Dev 0
pull1D
Entries 90
Mean 0.01477
Std Dev 1.12

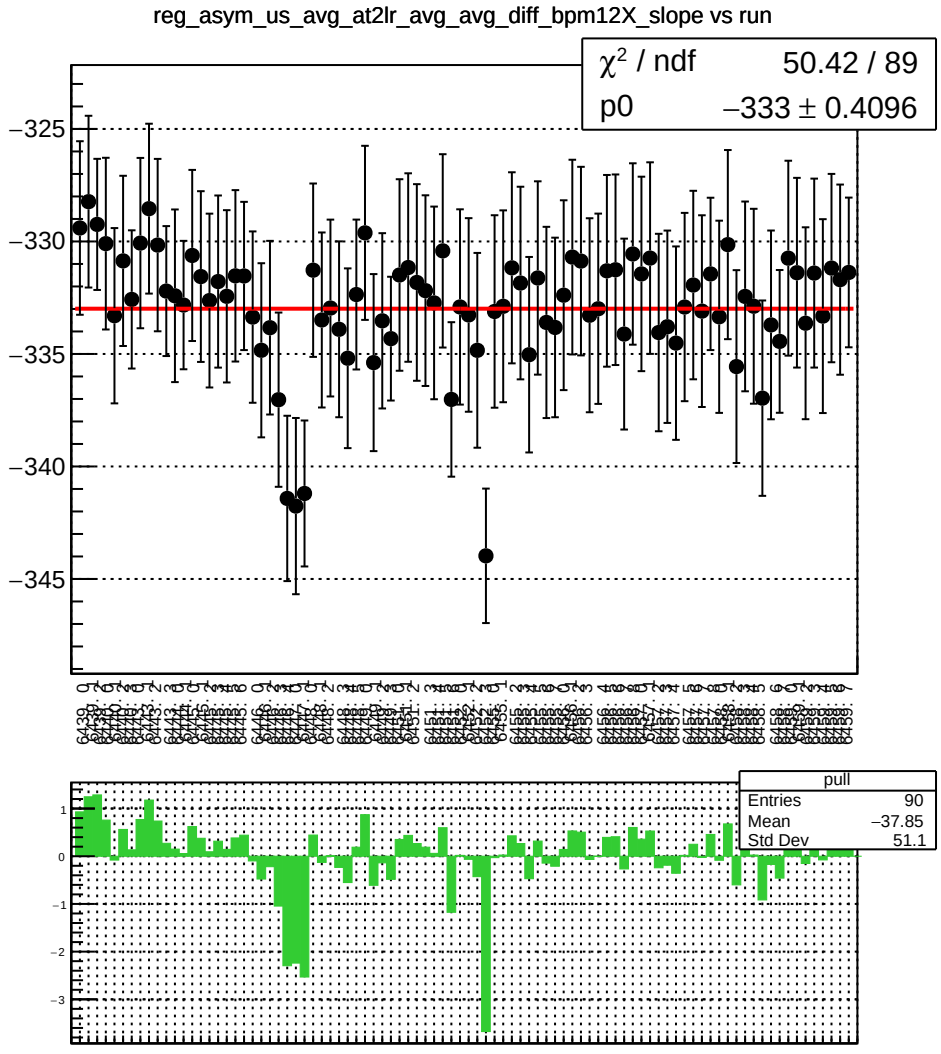

reg_asym_us_avg_at2lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 53.48 / 89
p0 −692.1 ± 8.636
−500
−600
−700
−800
−900
pull
Entries 90
Mean 268.4
Std Dev 0
4
3
2
1
0
−1
pull1D
Entries 90
Mean −0.04572
Std Dev 0.7695
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

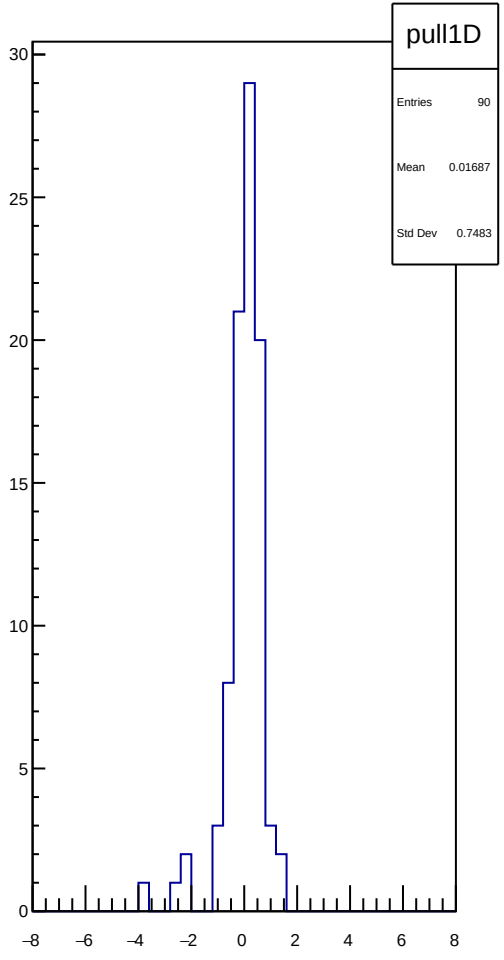

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 25.68 / 89
p0 38.19 ± 10.04
pull
Entries 90
Mean −117
Std Dev 0
pull1D
Entries 90
Mean 0.02063
Std Dev 0.5338

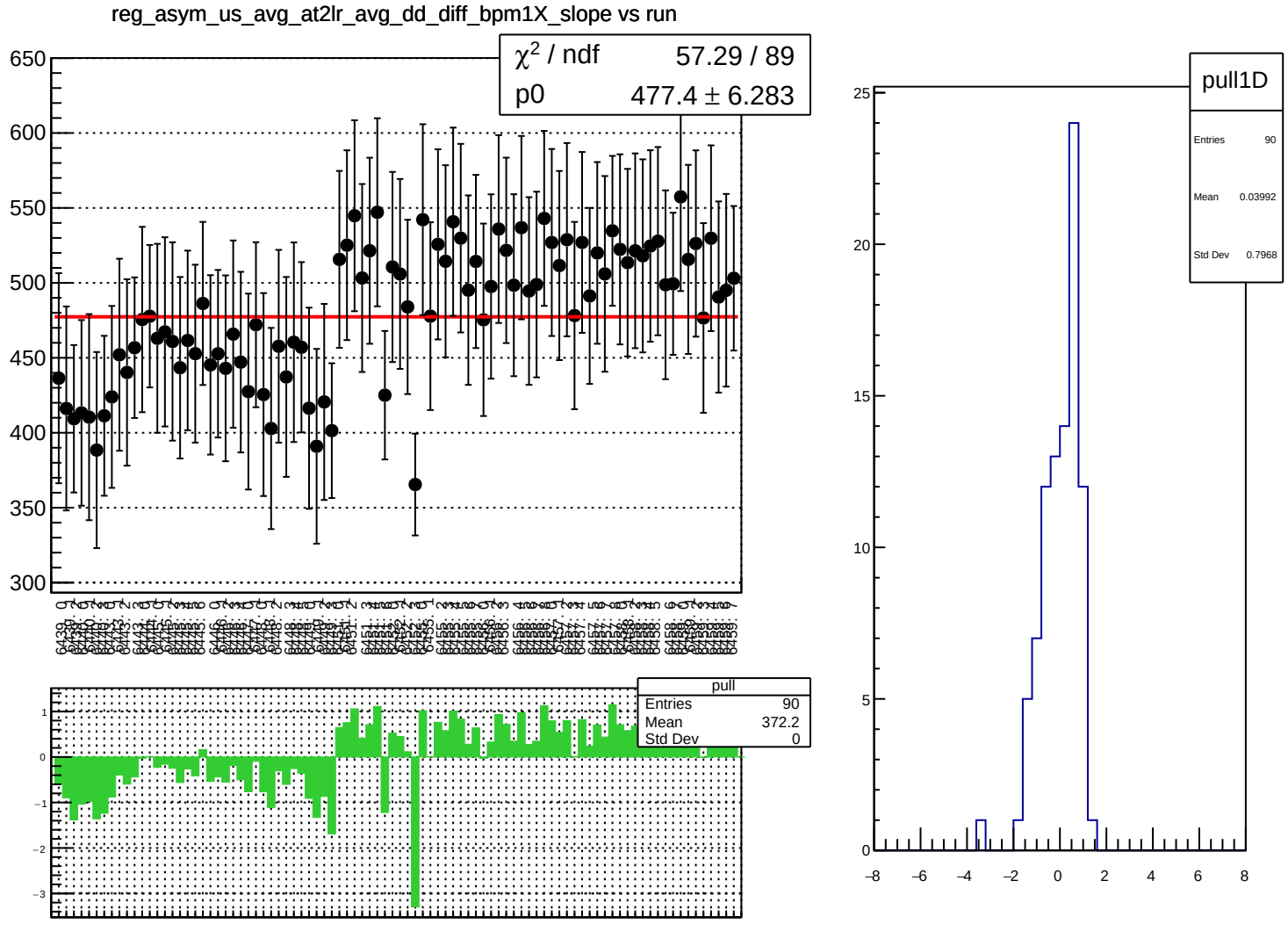

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 60.92 / 89
p0 777.8 ± 8.713
1000
900
800
700
600
500
pull
Entries 90
Mean 344.5
Std Dev 0
1
0
−1
−2
−3
−4
pull1D
Entries 90
Mean 0.03812
Std Dev 0.8219
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

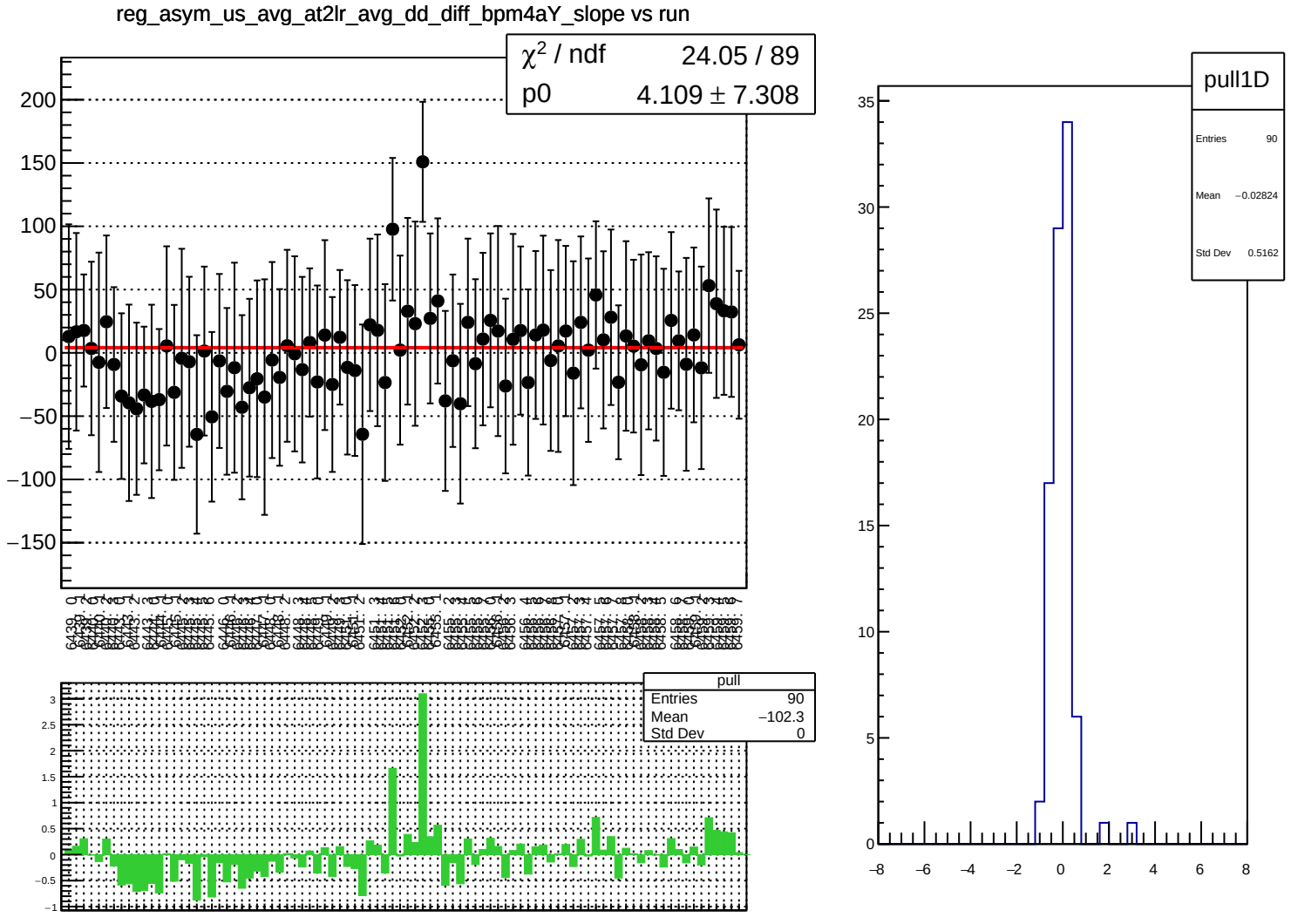

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 36.61 / 89
p0 172.3 ± 10.06
pull
Entries 90
Mean −225.1
Std Dev 0

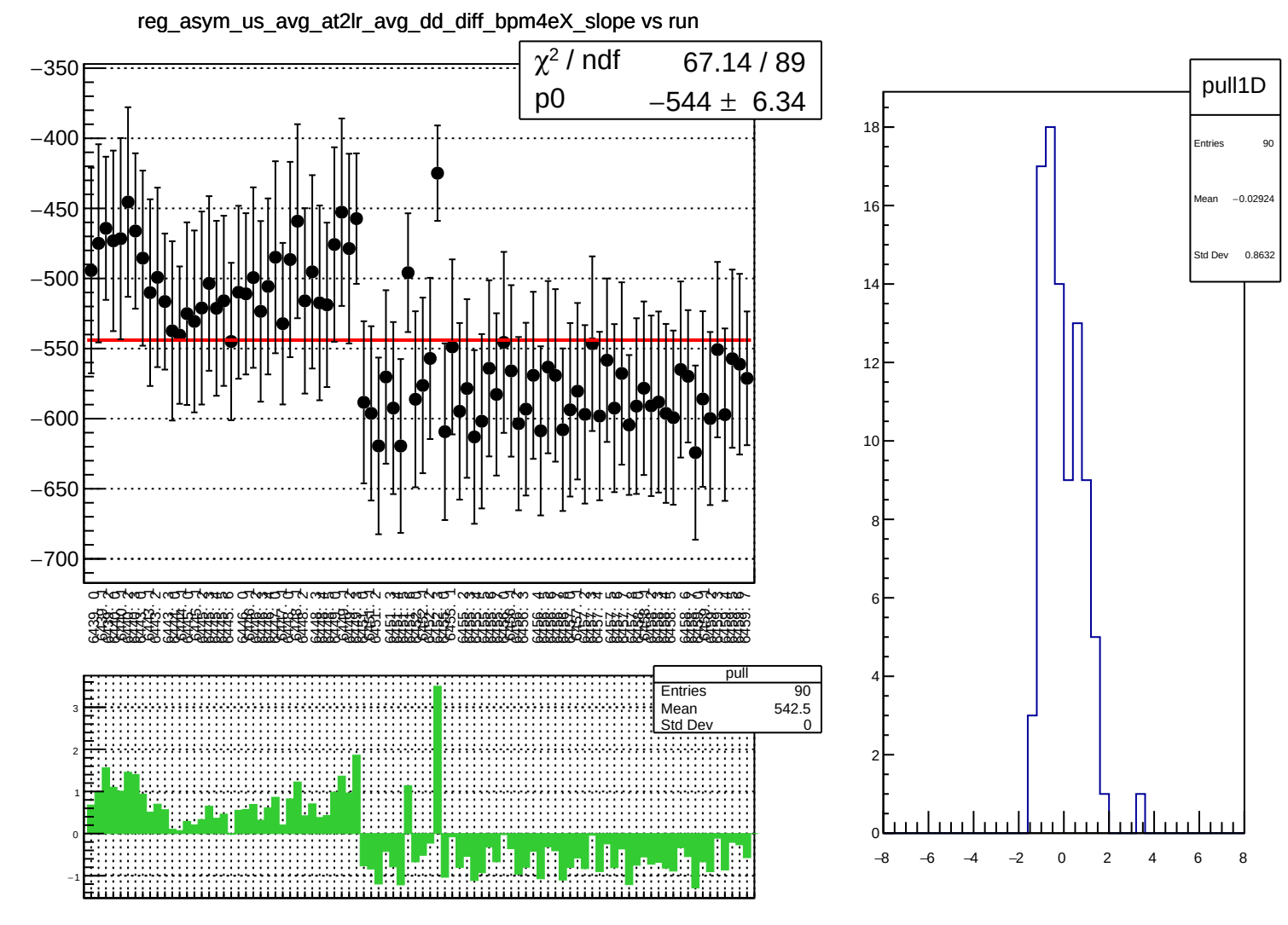

pull1D
Entries 90
Mean −0.02527
Std Dev 0.6373

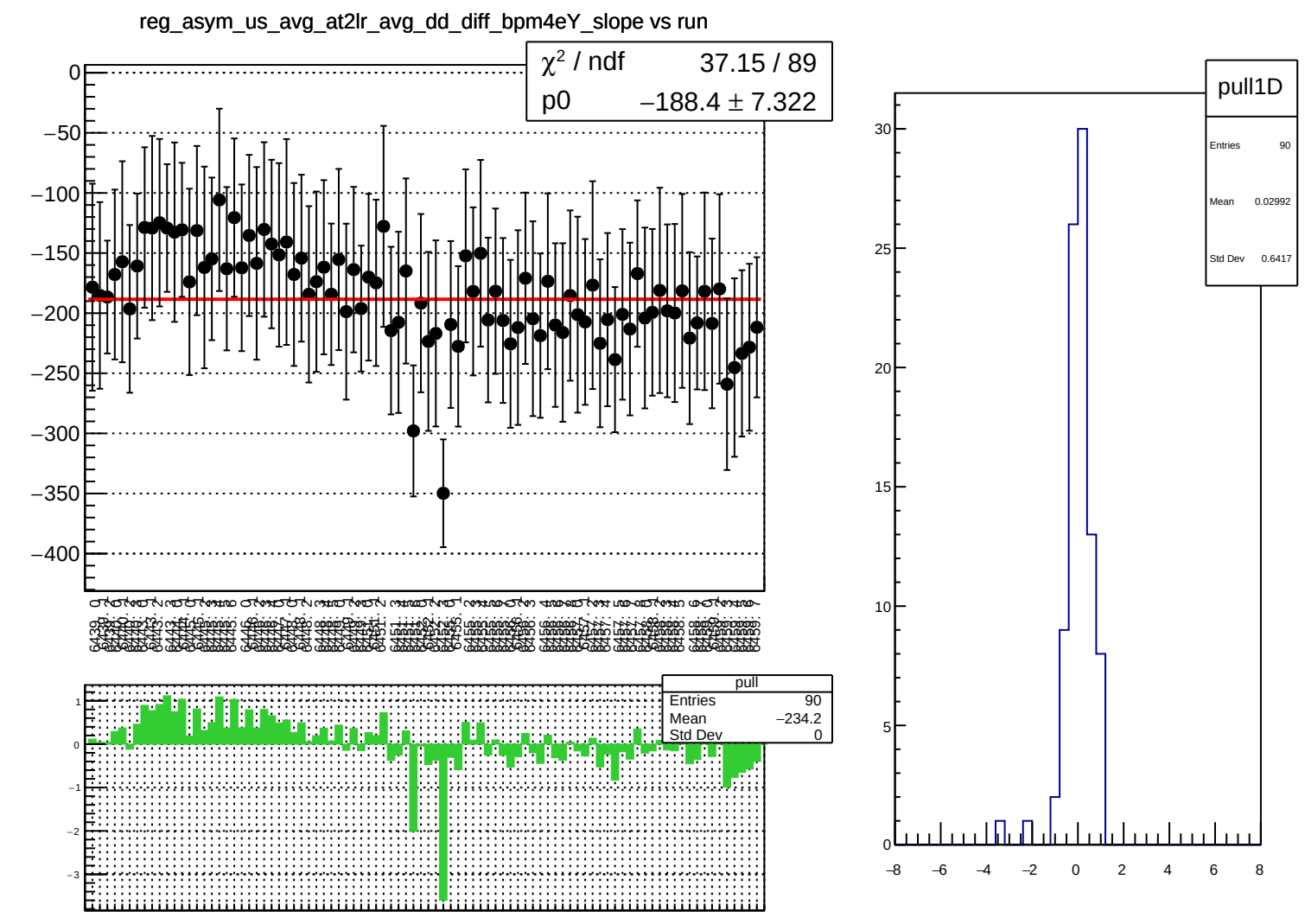

reg_asym_us_avg_at2lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 50.42 / 89
p0 −333 ± 0.4096
−325
−330
−335
−340
−345
pull
Entries 90
Mean −37.85
Std Dev 51.1
1
0
−1
−2
−3

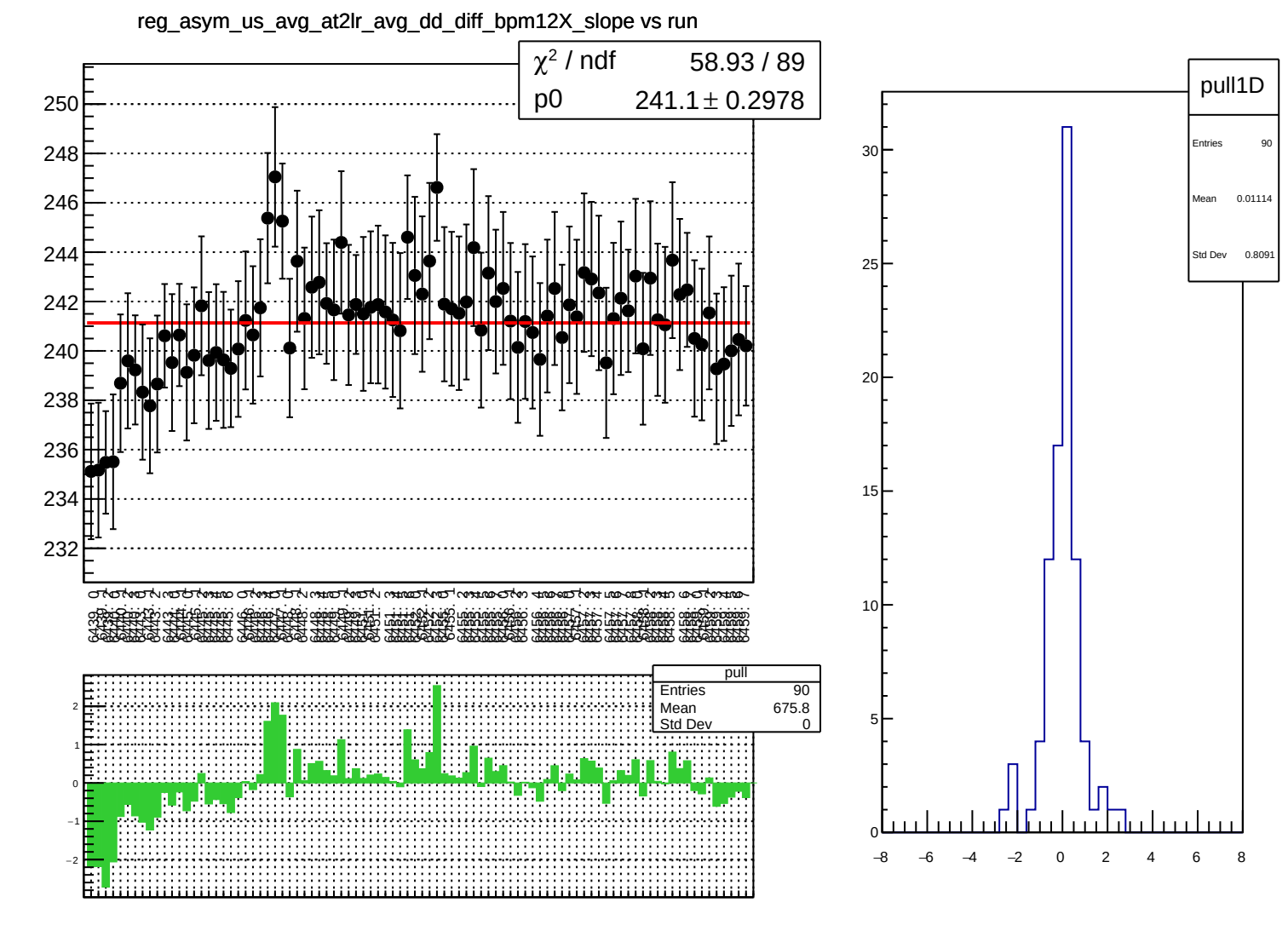

pull1D
Entries 90
Mean 0.01687
Std Dev 0.7483
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

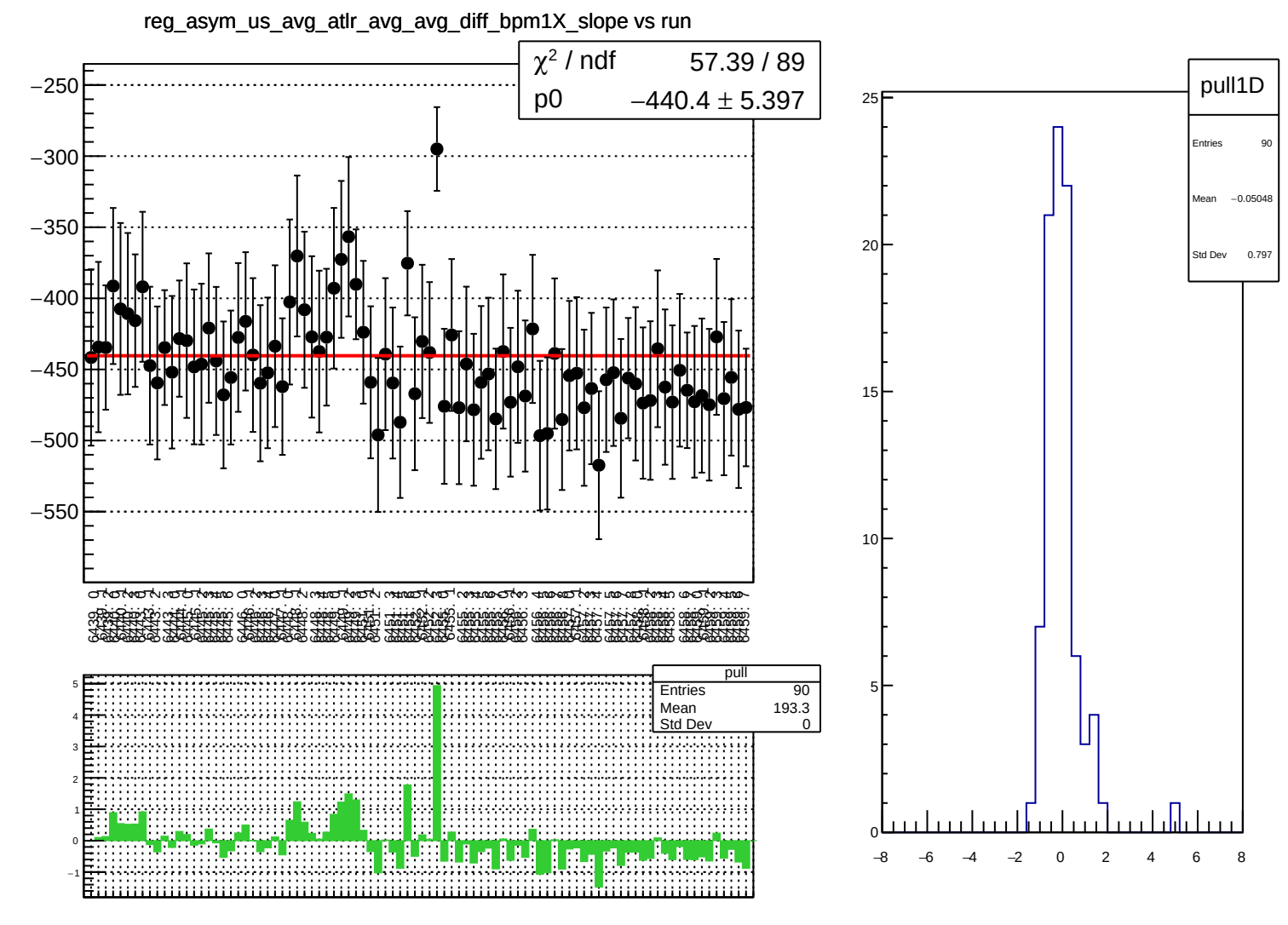

reg_asym_us_avg_at2lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 57.29 / 89
p0 477.4 ± 6.283
650
600
550
500
450
400
350
300
pull
Entries 90
Mean 372.2
Std Dev 0
1
0
−1
−2
−3
pull1D
Entries 90
Mean 0.03992
Std Dev 0.7968
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

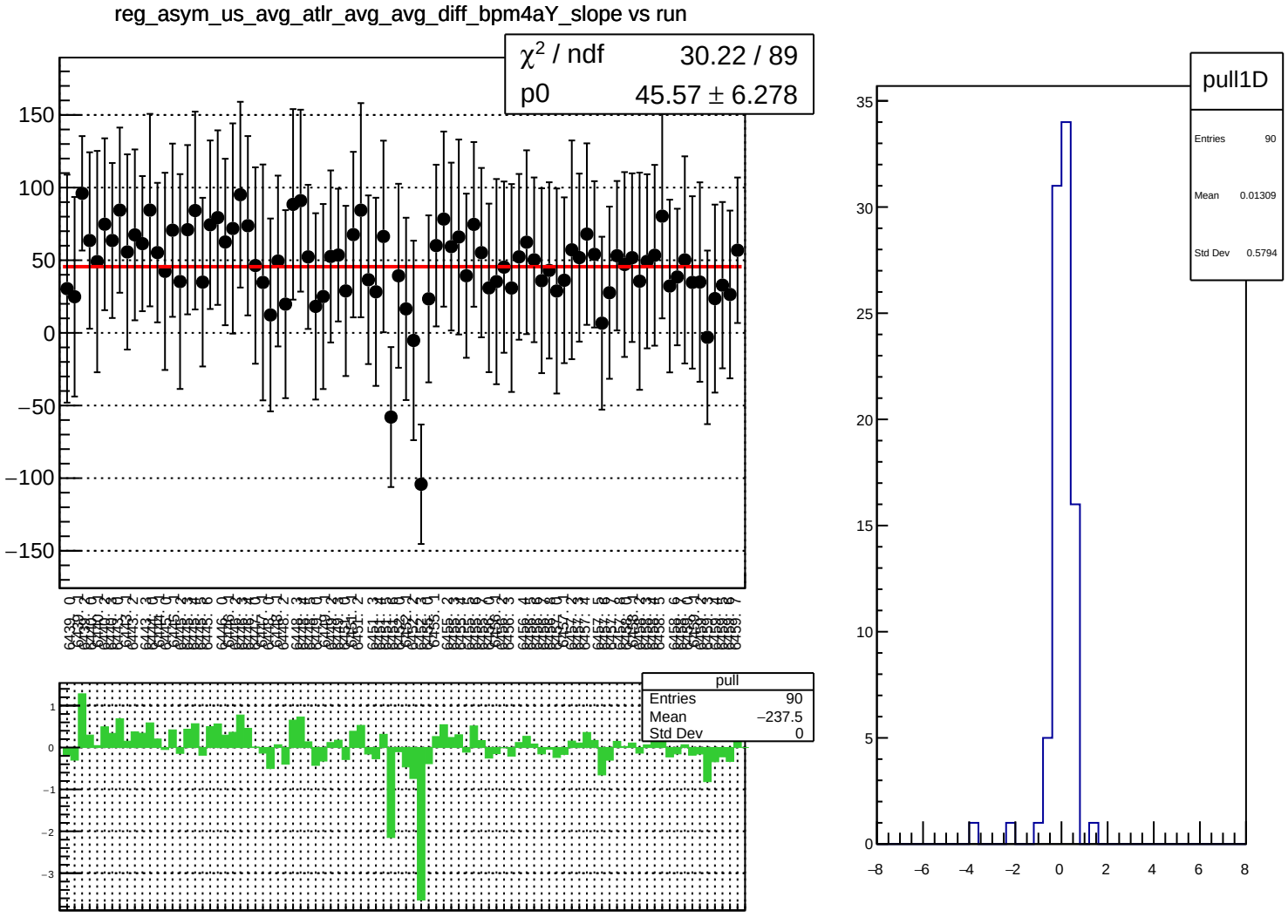

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 24.05 / 89
p0 4.109 ± 7.308
pull
Entries 90
Mean −102.3
Std Dev 0
pull1D
Entries 90
Mean −0.02824
Std Dev 0.5162

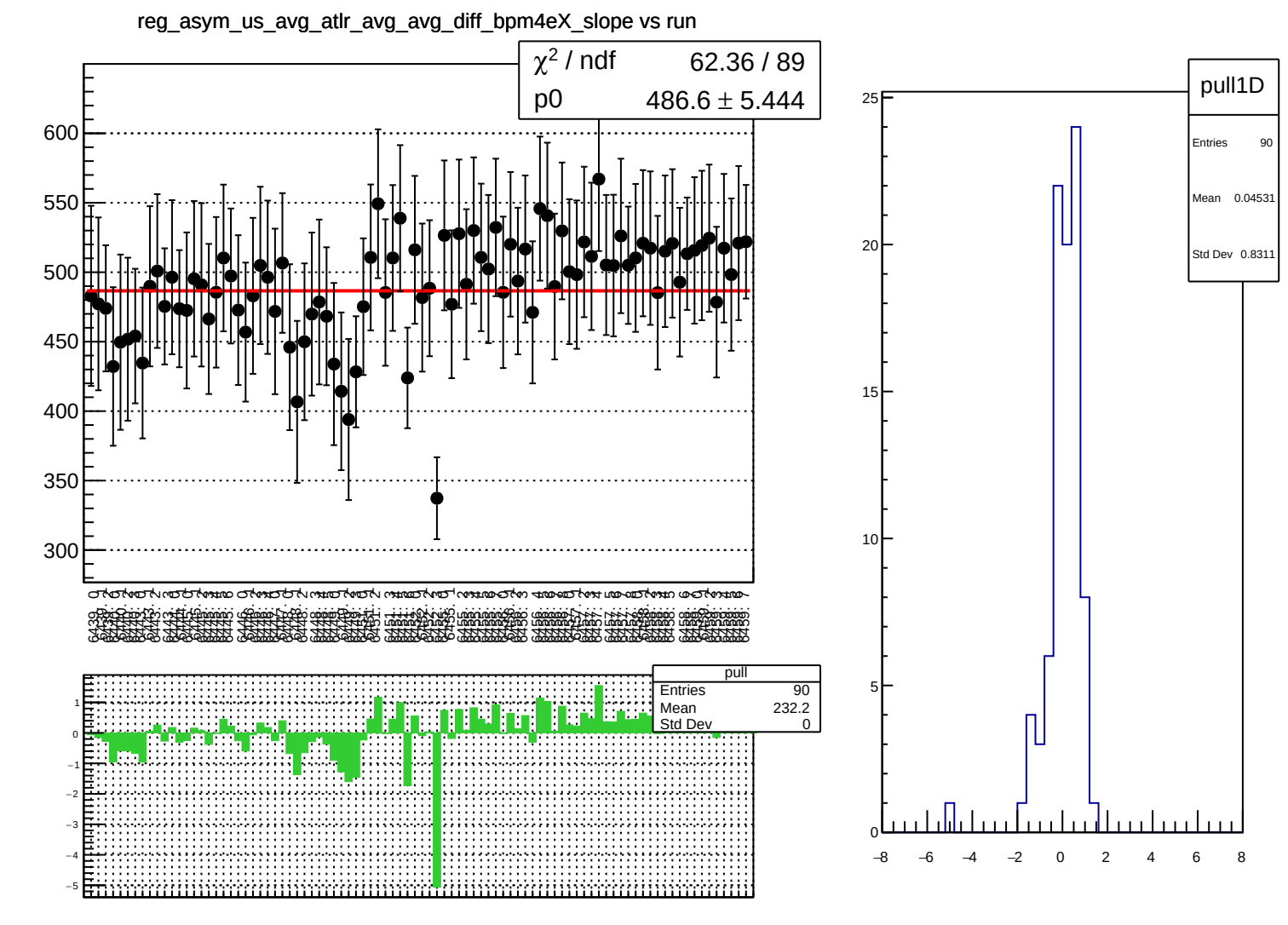

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 67.14 / 89
p0 −544 ± 6.34
pull
Entries 90
Mean 542.5
Std Dev 0
pull1D
Entries 90
Mean −0.02924
Std Dev 0.8632

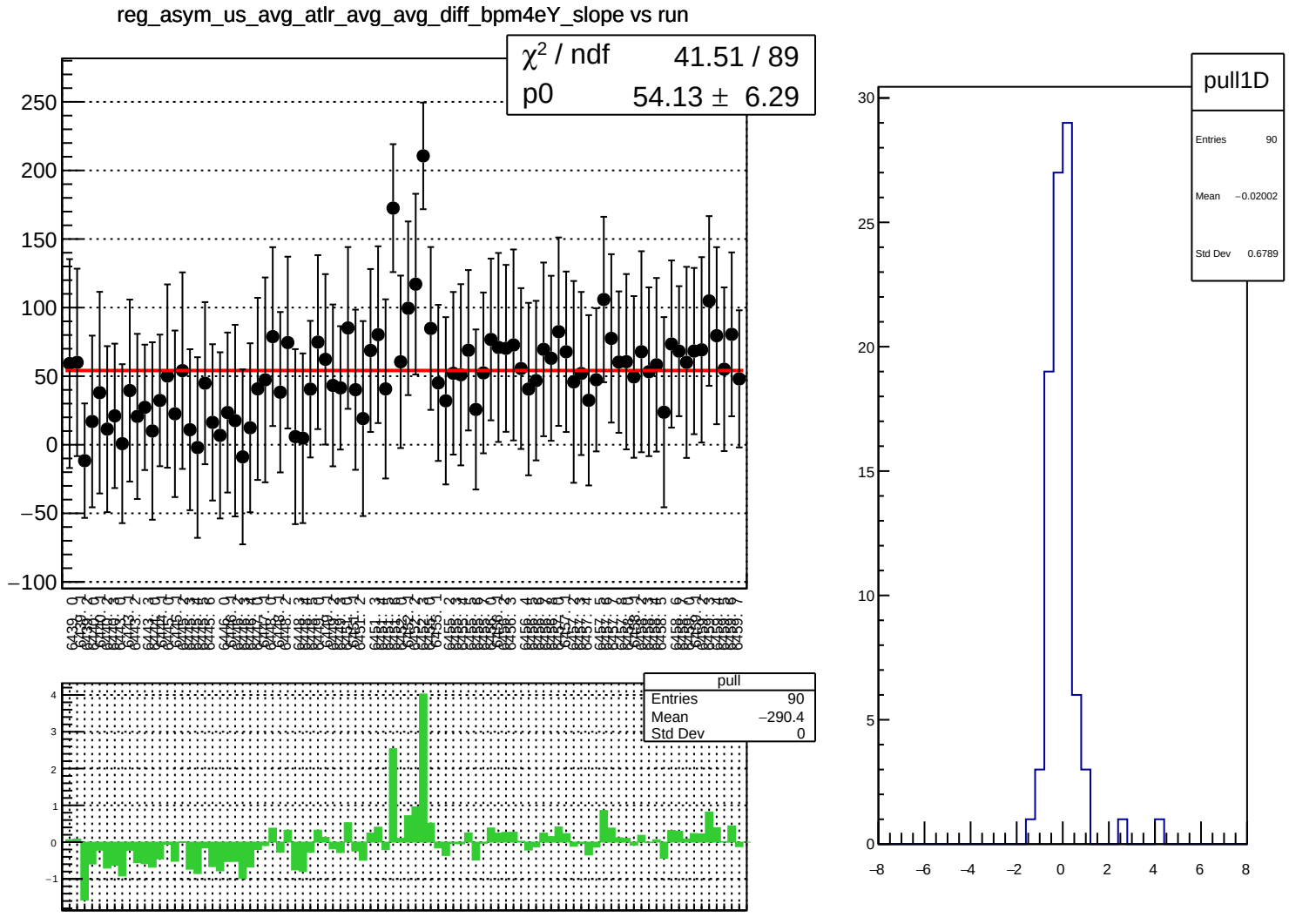

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 37.15 / 89
p0 −188.4 ± 7.322
pull
Entries 90
Mean −234.2
Std Dev 0
pull1D
Entries 90
Mean 0.02992
Std Dev 0.6417

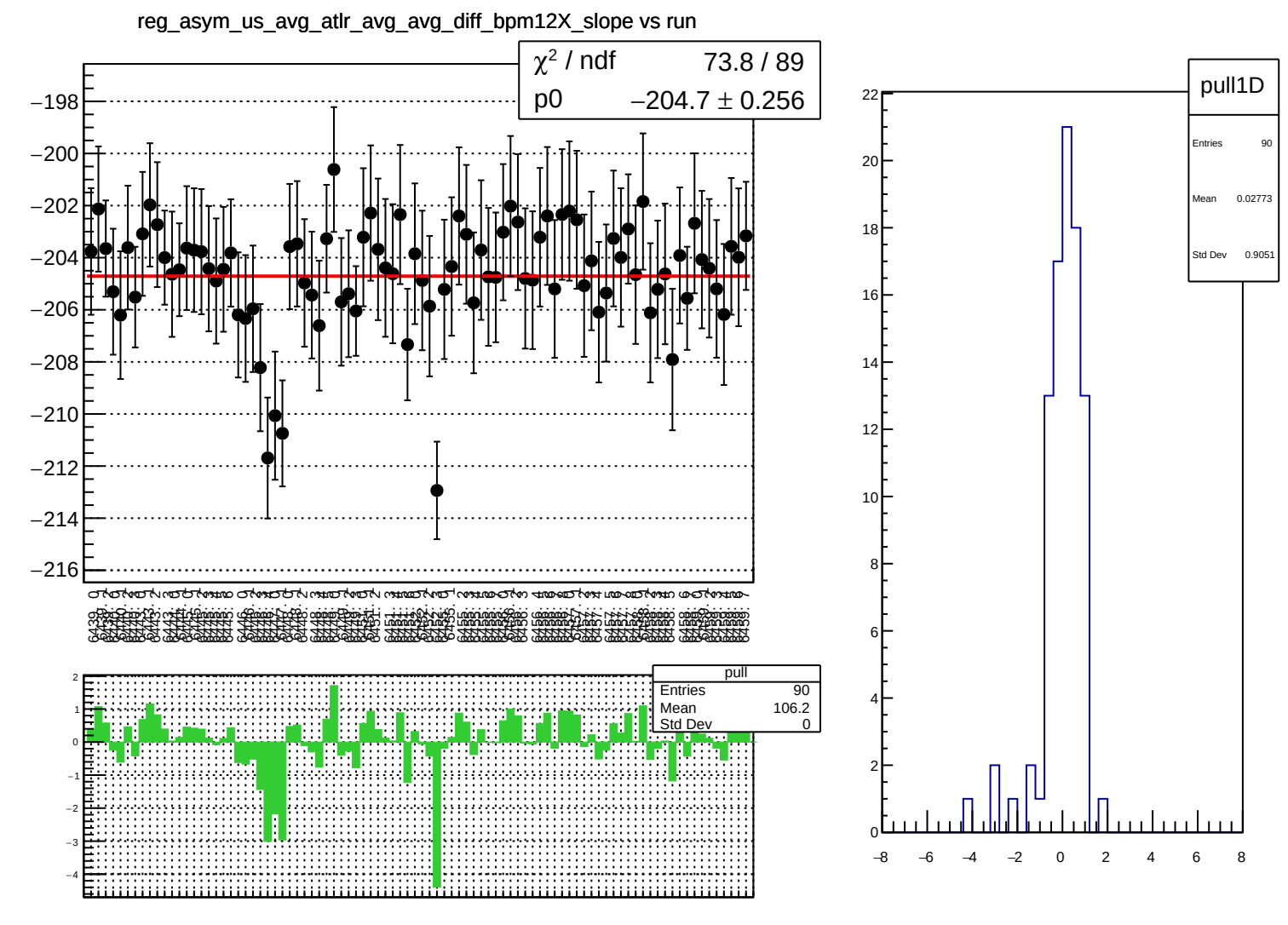

reg_asym_us_avg_at2lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 58.93 / 89
p0 241.1 ± 0.2978
pull
Entries 90
Mean 675.8
Std Dev 0
pull1D
Entries 90
Mean 0.01114
Std Dev 0.8091

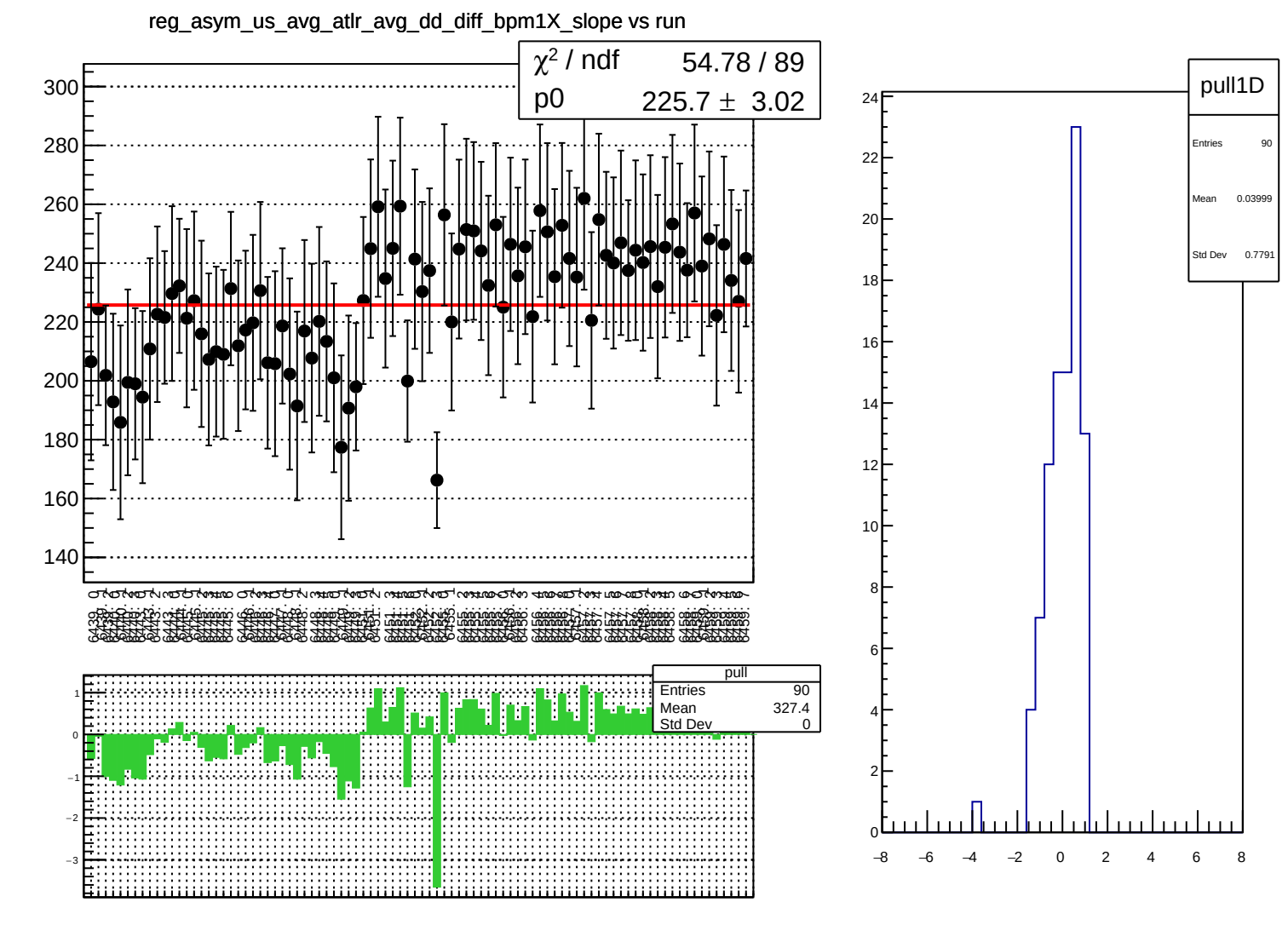

reg_asym_us_avg_atlr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 57.39 / 89
p0 −440.4 ± 5.397
−250
−300
−350
−400
−450
−500
−550
pull
Entries 90
Mean 193.3
Std Dev 0
5
4
3
2
1
0
−1
pull1D
Entries 90
Mean −0.05048
Std Dev 0.797
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

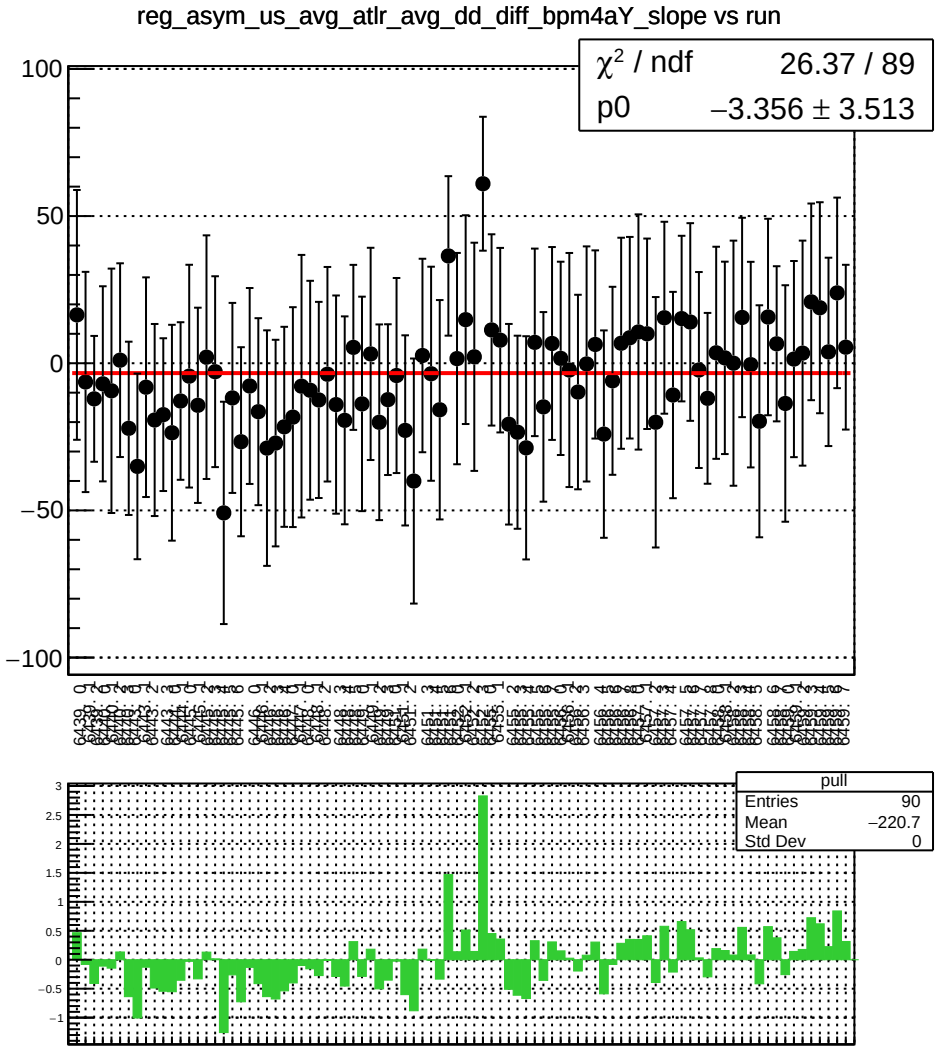

reg_asym_us_avg_atlr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 30.22 / 89
p0 45.57 ± 6.278
150
100
50
0
−50
−100
−150
pull
Entries 90
Mean −237.5
Std Dev 0
1
0
−1
−2
−3
pull1D
Entries 90
Mean 0.01309
Std Dev 0.5794
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

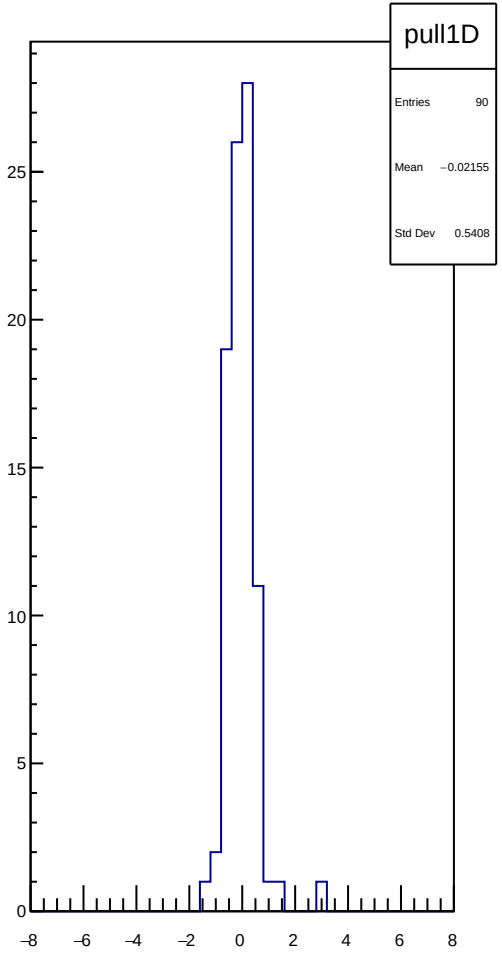

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 62.36 / 89
p0 486.6 ± 5.444
600
550
500
450
400
350
300
pull
Entries 90
Mean 232.2
Std Dev 0
1
0
−1
−2
−3
−4
−5
pull1D
Entries 90
Mean 0.04531
Std Dev 0.8311
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

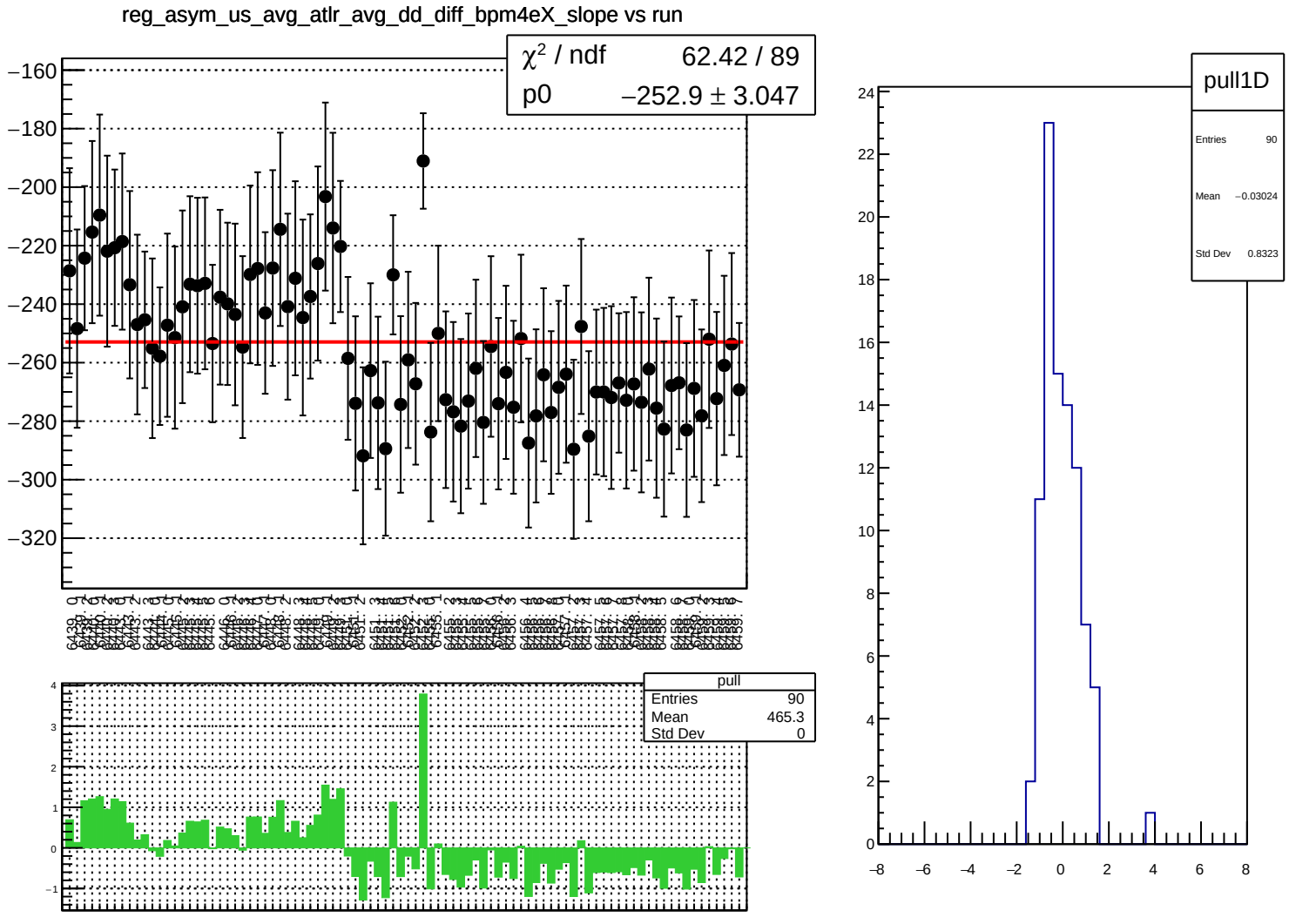

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 41.51 / 89
p0 54.13 ± 6.29
pull
Entries 90
Mean −290.4
Std Dev 0
pull1D
Entries 90
Mean −0.02002
Std Dev 0.6789

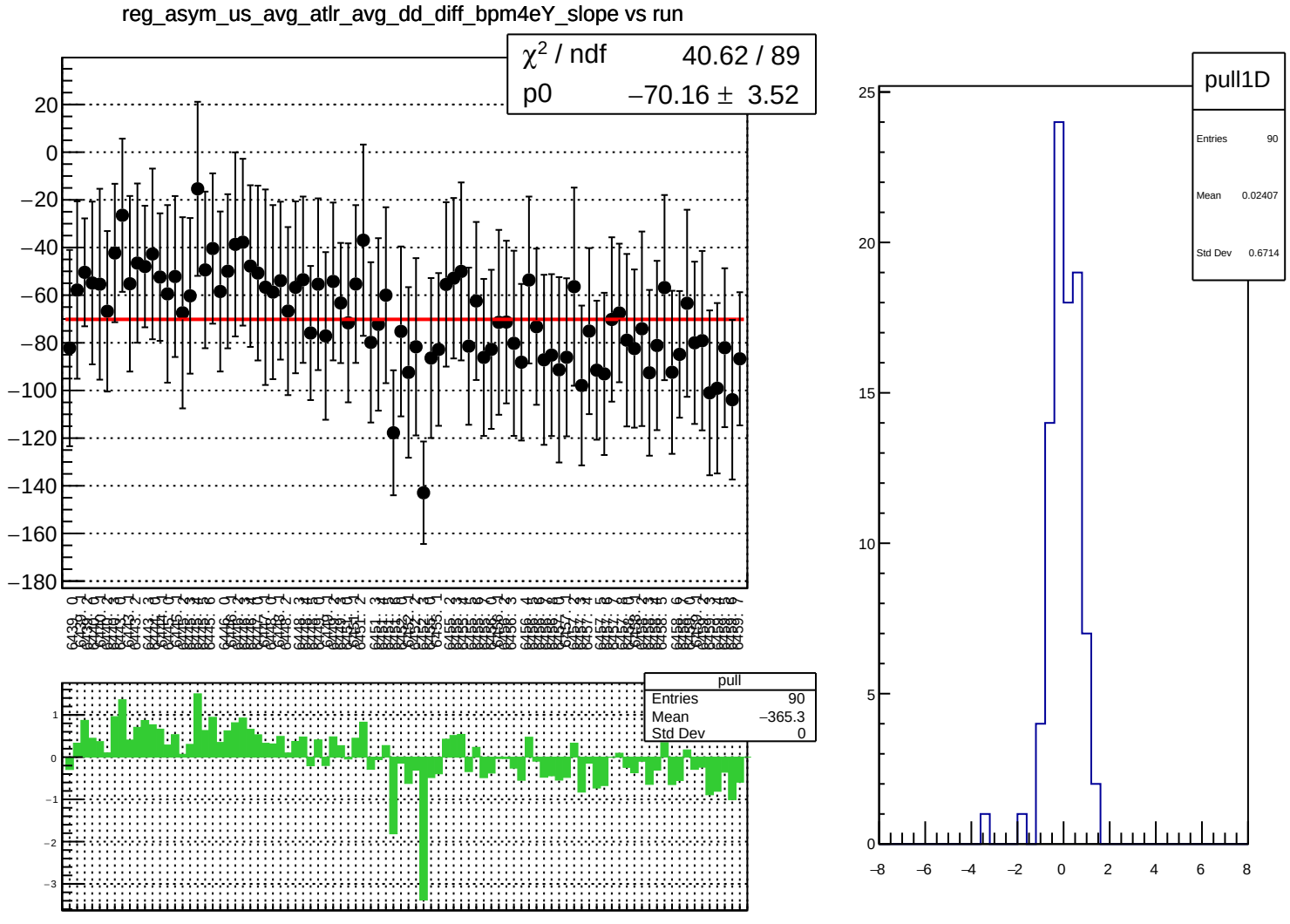

reg_asym_us_avg_atlr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 73.8 / 89
p0 −204.7 ± 0.256
pull
Entries 90
Mean 106.2
Std Dev 0
pull1D
Entries 90
Mean 0.02773
Std Dev 0.9051

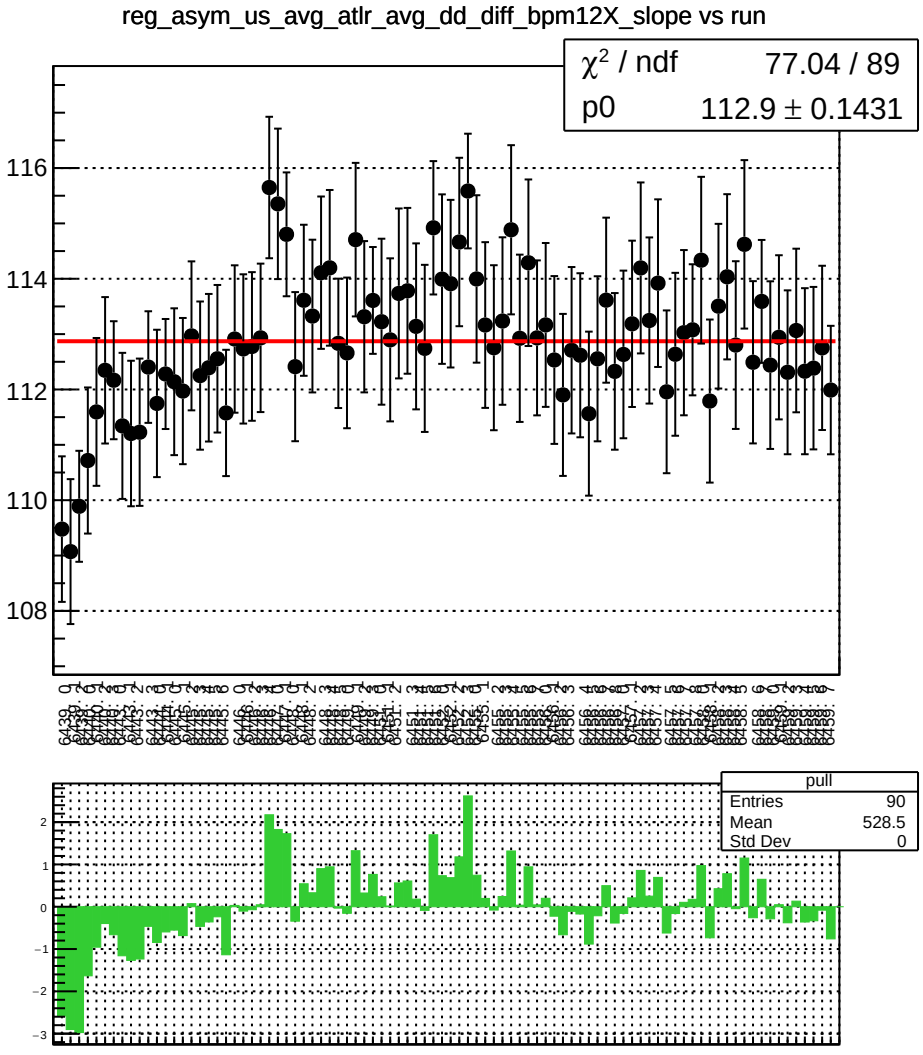

reg_asym_us_avg_atlr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 54.78 / 89
p0 225.7 ± 3.02
pull
Entries 90
Mean 327.4
Std Dev 0
pull1D
Entries 90
Mean 0.03999
Std Dev 0.7791

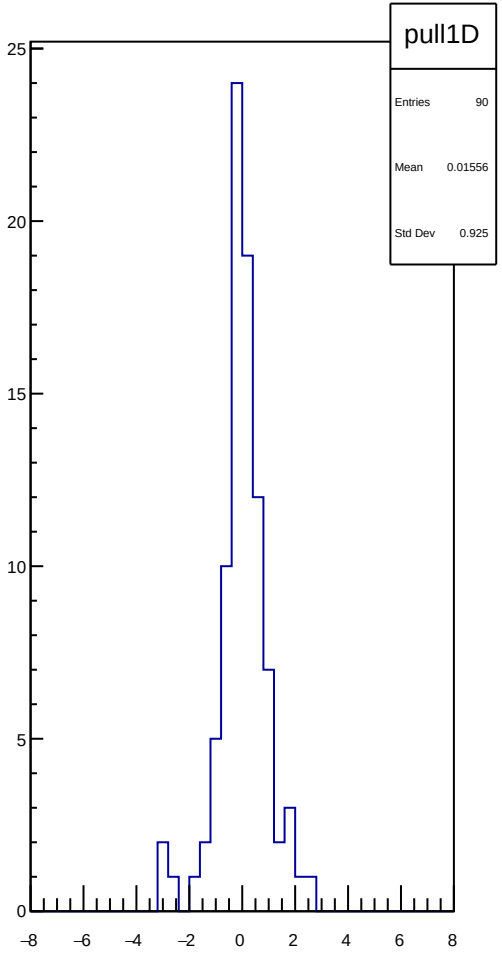

reg_asym_us_avg_atlr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 26.37 / 89
p0 −3.356 ± 3.513
pull
Entries 90
Mean −220.7
Std Dev 0

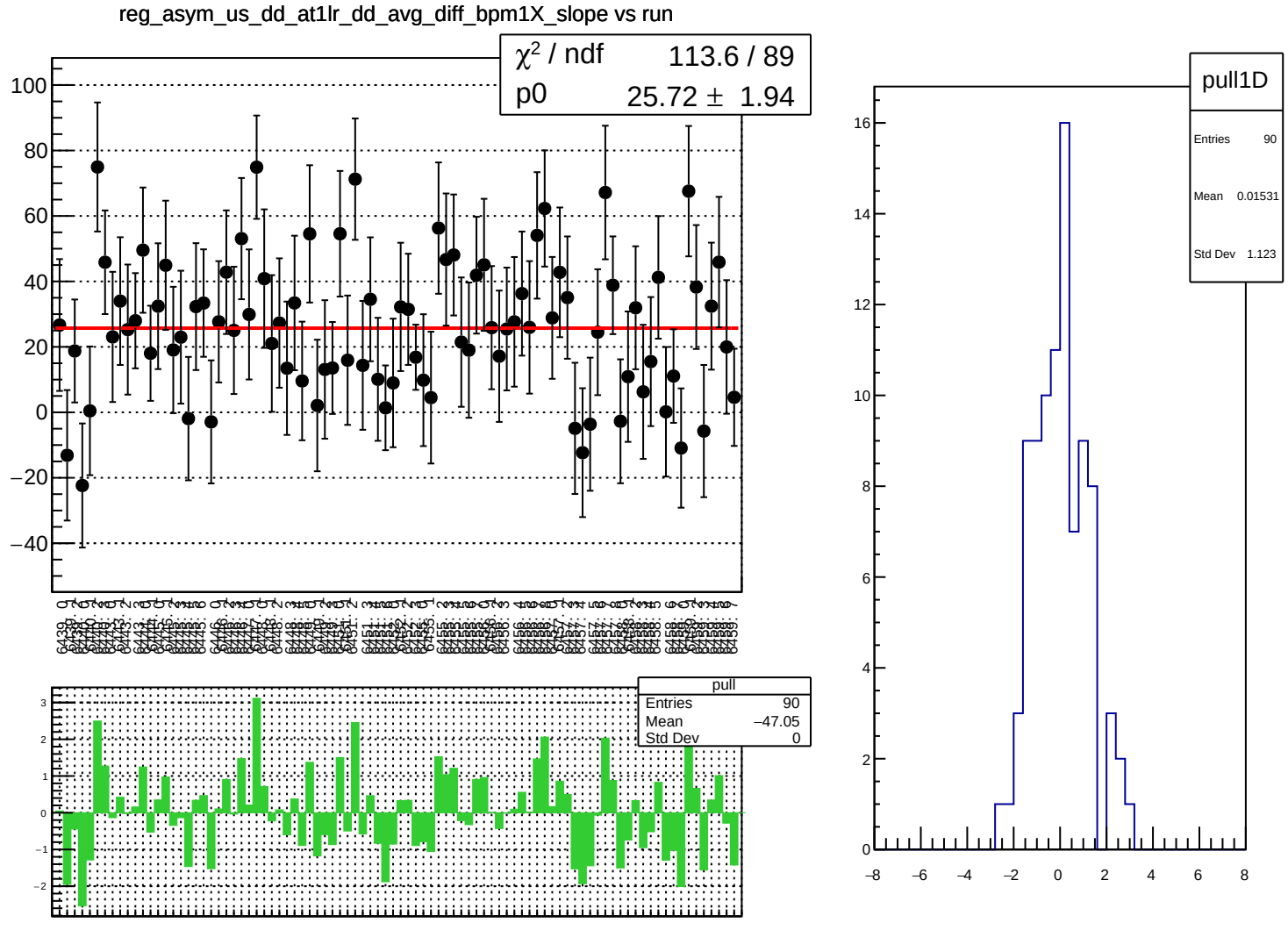

pull1D
Entries 90
Mean −0.02155
Std Dev 0.5408

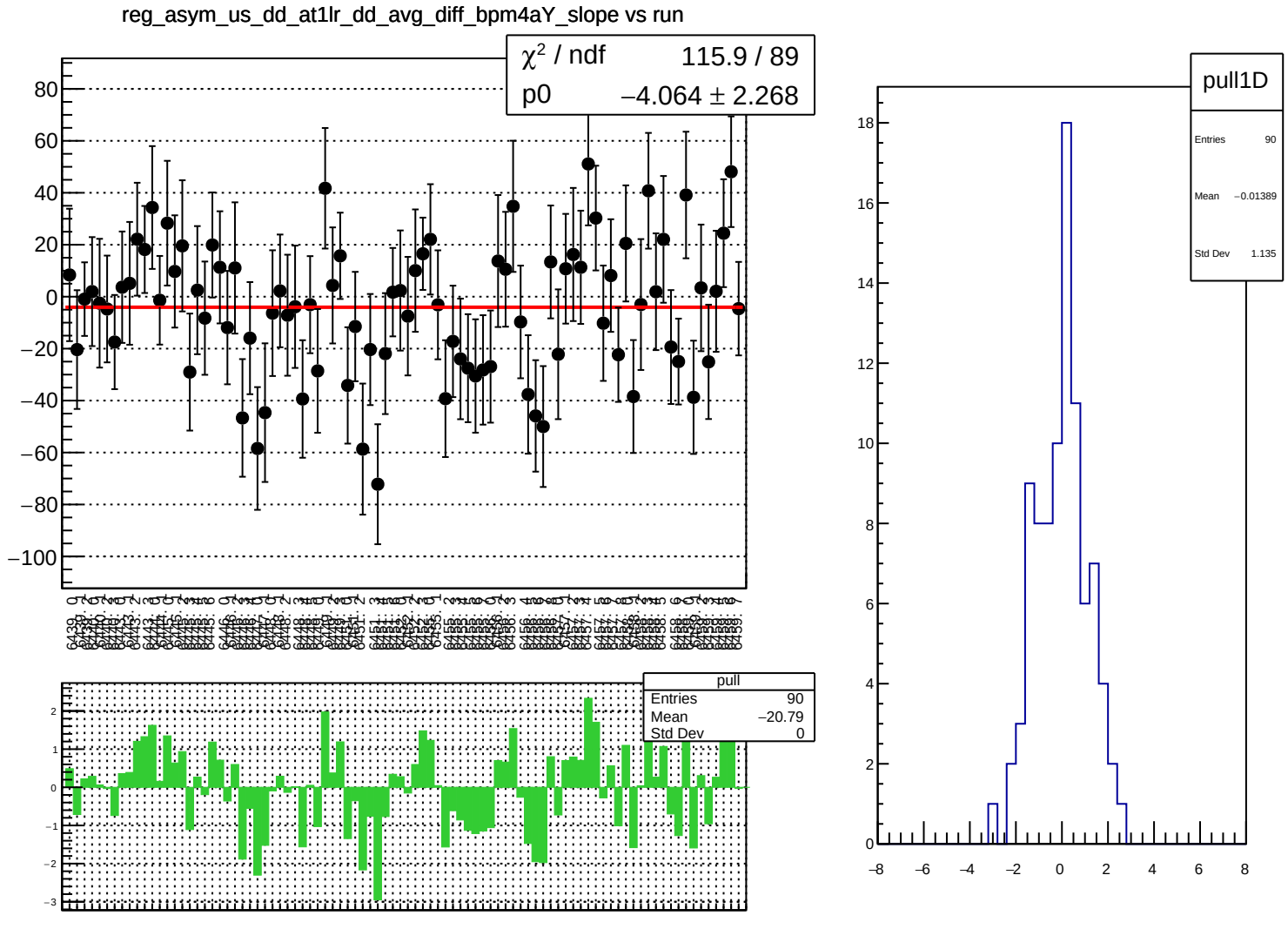

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 62.42 / 89
p0 −252.9 ± 3.047
pull
Entries 90
Mean 465.3
Std Dev 0
pull1D
Entries 90
Mean −0.03024
Std Dev 0.8323

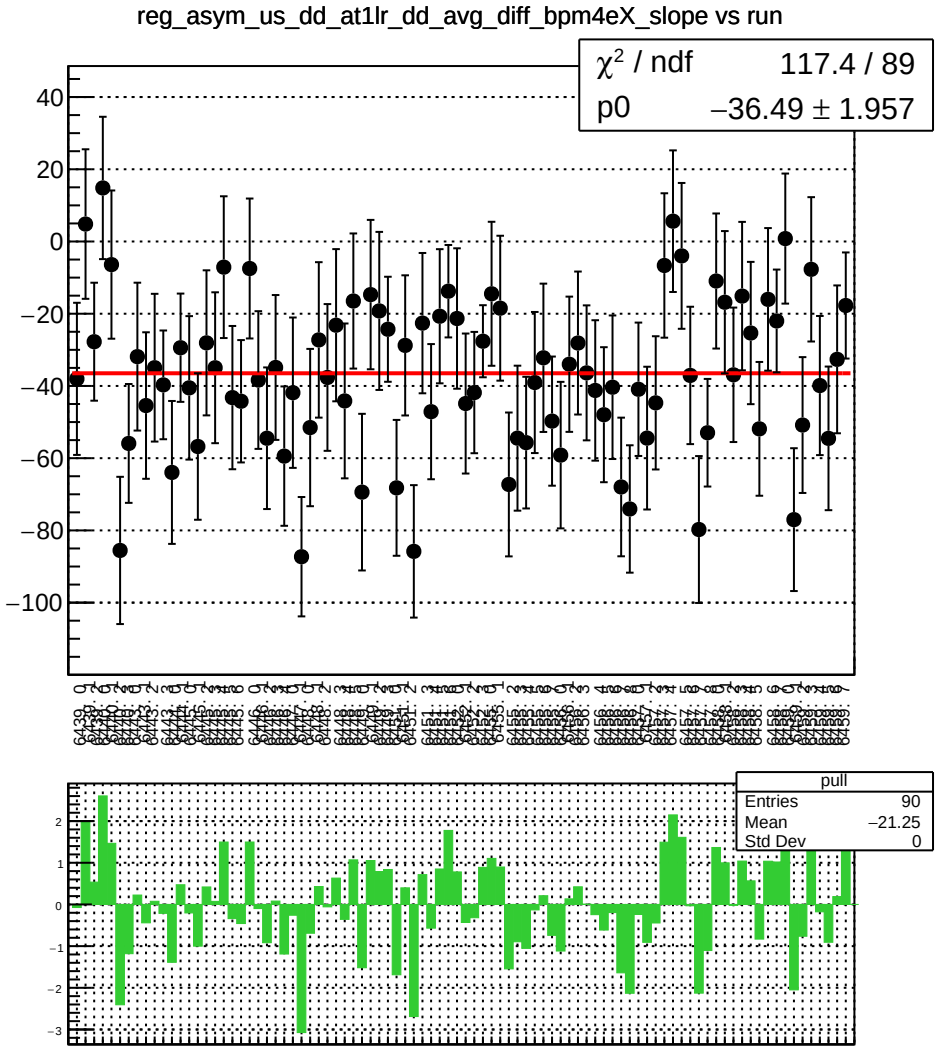

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 40.62 / 89
p0 −70.16 ± 3.52
pull
Entries 90
Mean −365.3
Std Dev 0
pull1D
Entries 90
Mean 0.02407
Std Dev 0.6714

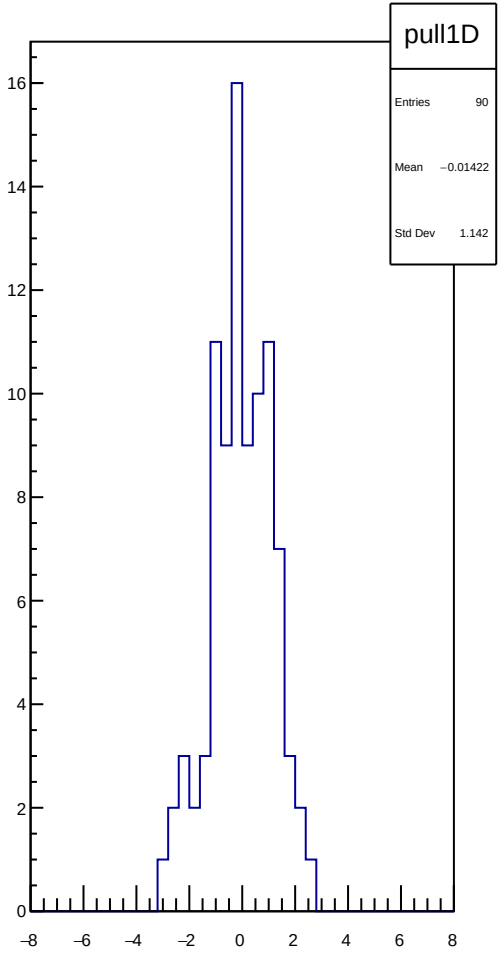

reg_asym_us_avg_atlr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 77.04 / 89
p0 112.9 ± 0.1431
116
114
112
110
108
pull
Entries 90
Mean 528.5
Std Dev 0
2
1
0
−1
−2
−3

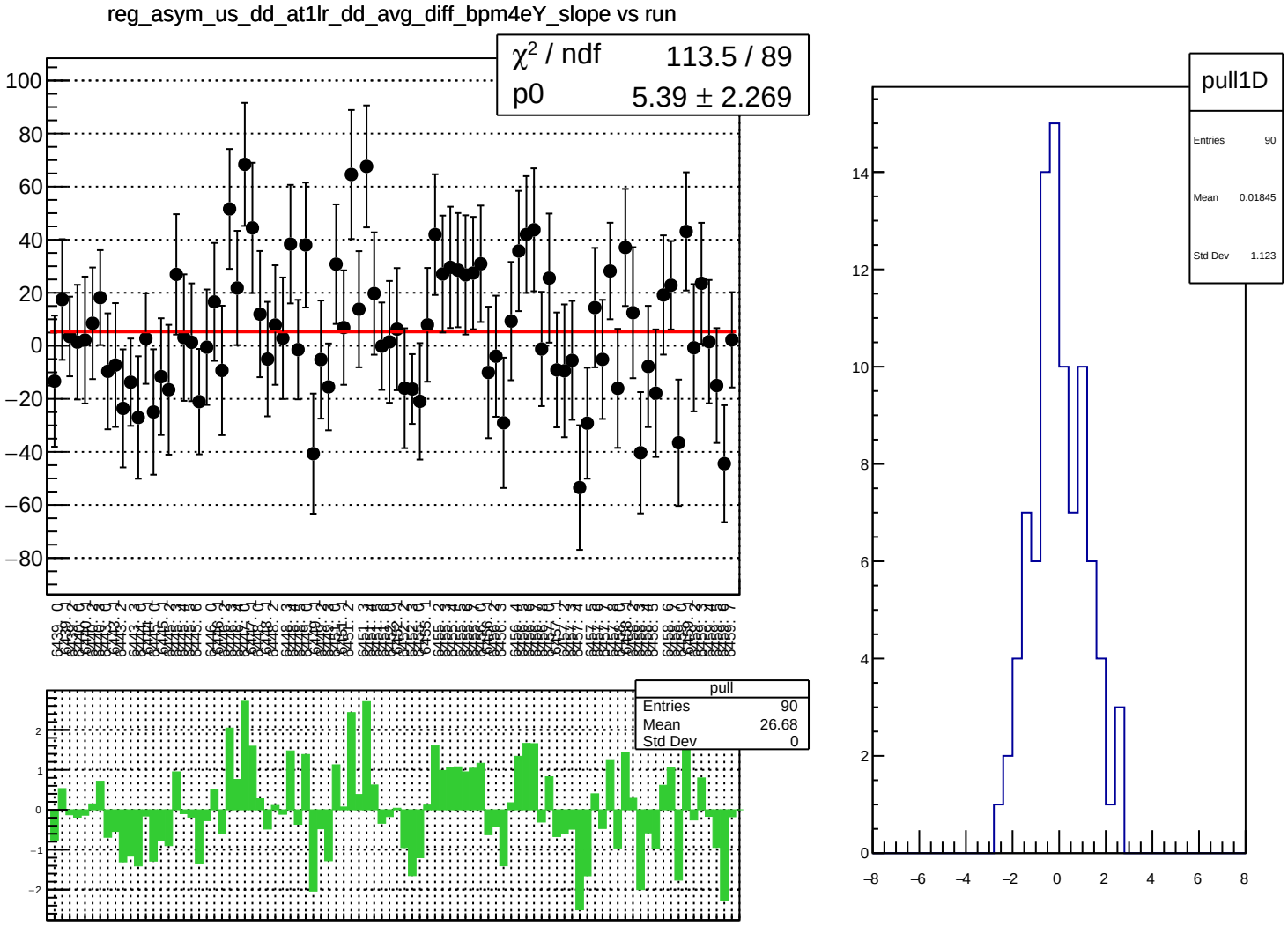

pull1D
Entries 90
Mean 0.01556
Std Dev 0.925
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

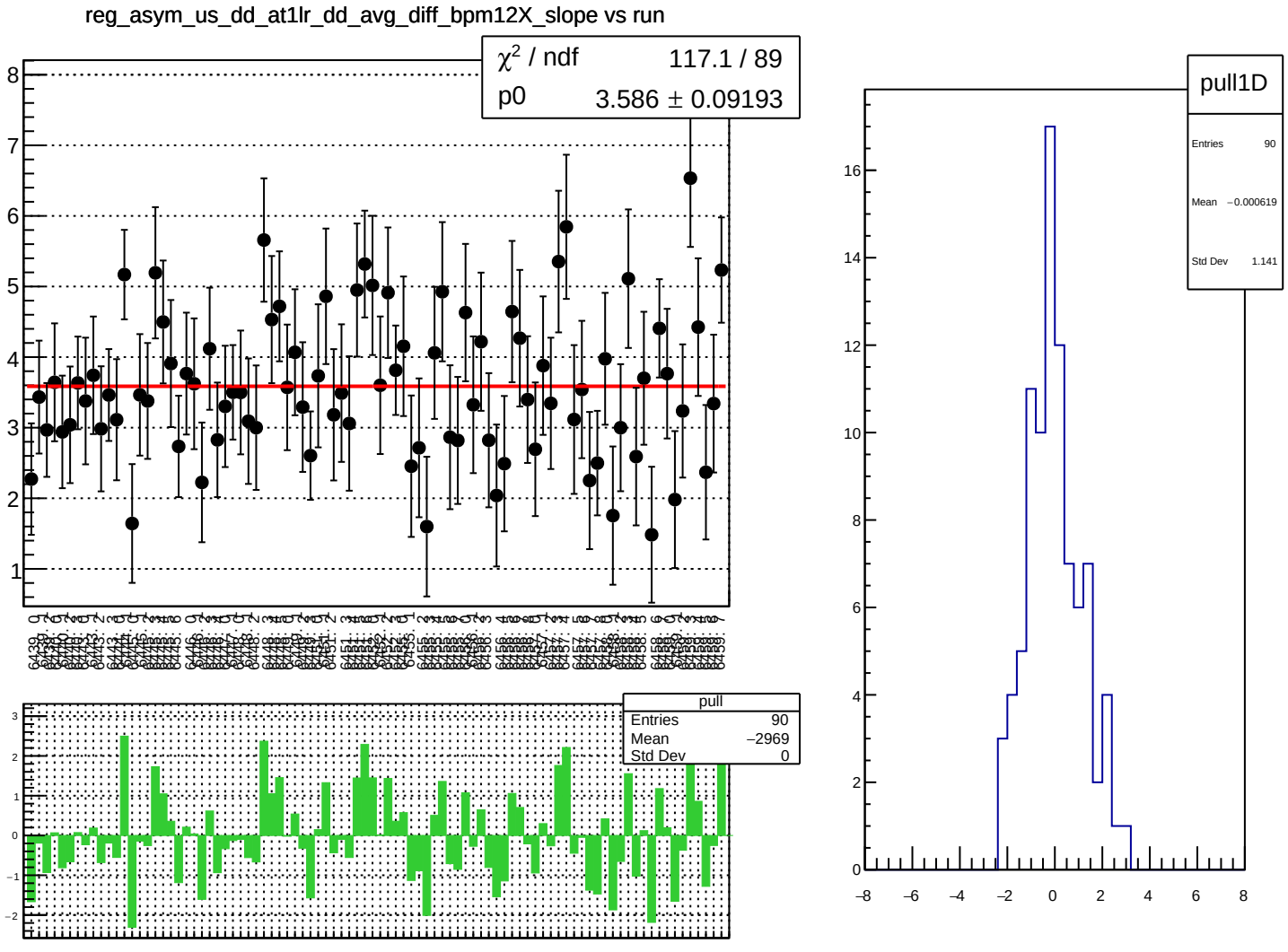

reg_asym_us_dd_at1lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 113.6 / 89
p0 25.72 ± 1.94
pull
Entries 90
Mean −47.05
Std Dev 0
pull1D
Entries 90
Mean 0.01531
Std Dev 1.123

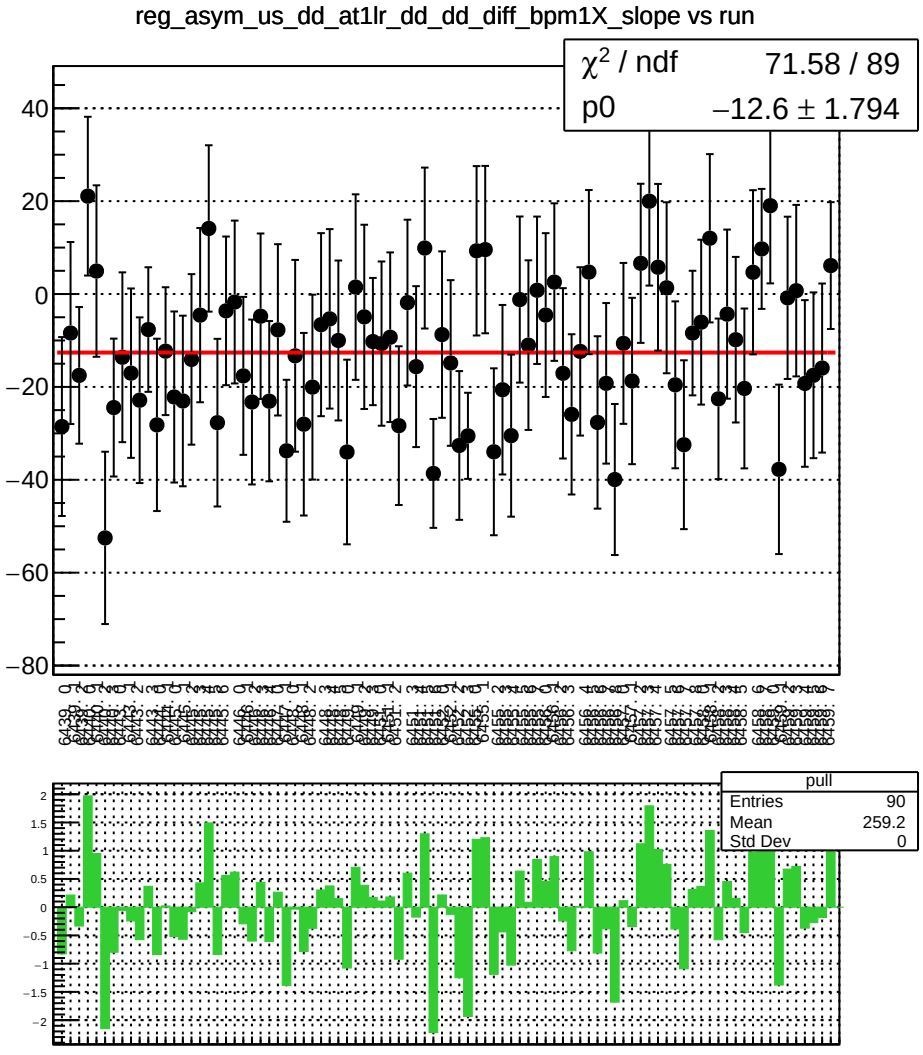

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 115.9 / 89
p0 −4.064 ± 2.268
pull
Entries 90
Mean −20.79
Std Dev 0
pull1D
Entries 90
Mean −0.01389
Std Dev 1.135

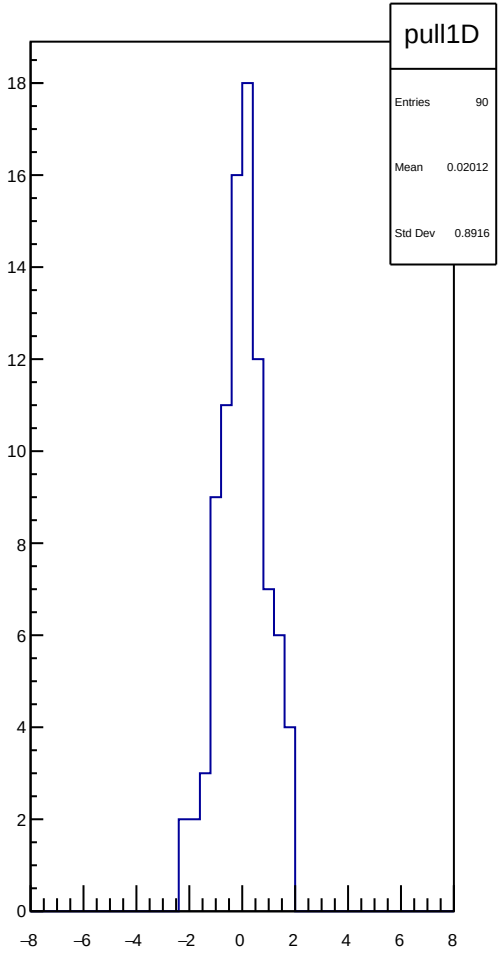

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 117.4 / 89
p0 −36.49 ± 1.957
pull
Entries 90
Mean −21.25
Std Dev 0

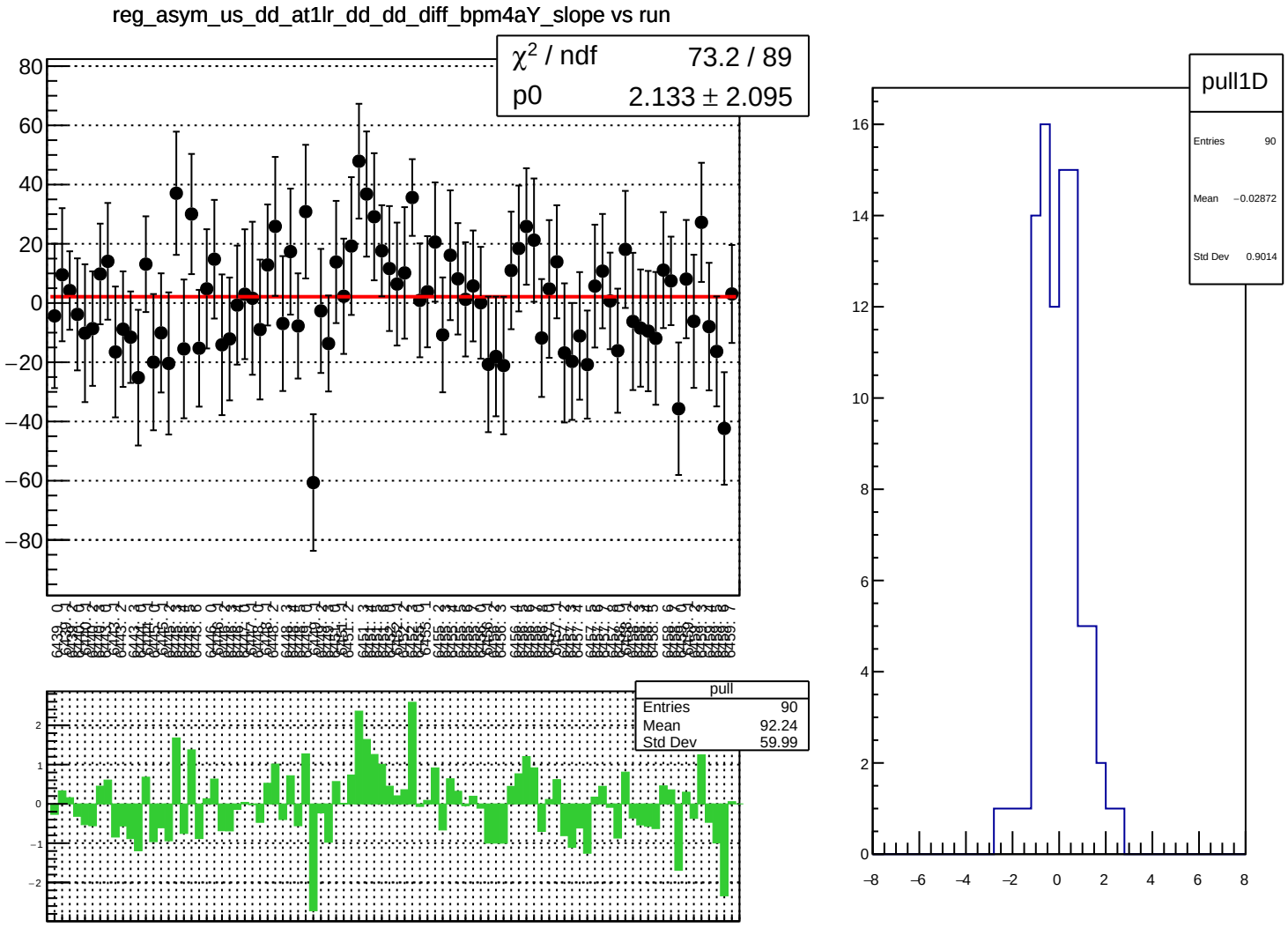

pull1D
Entries 90
Mean −0.01422
Std Dev 1.142

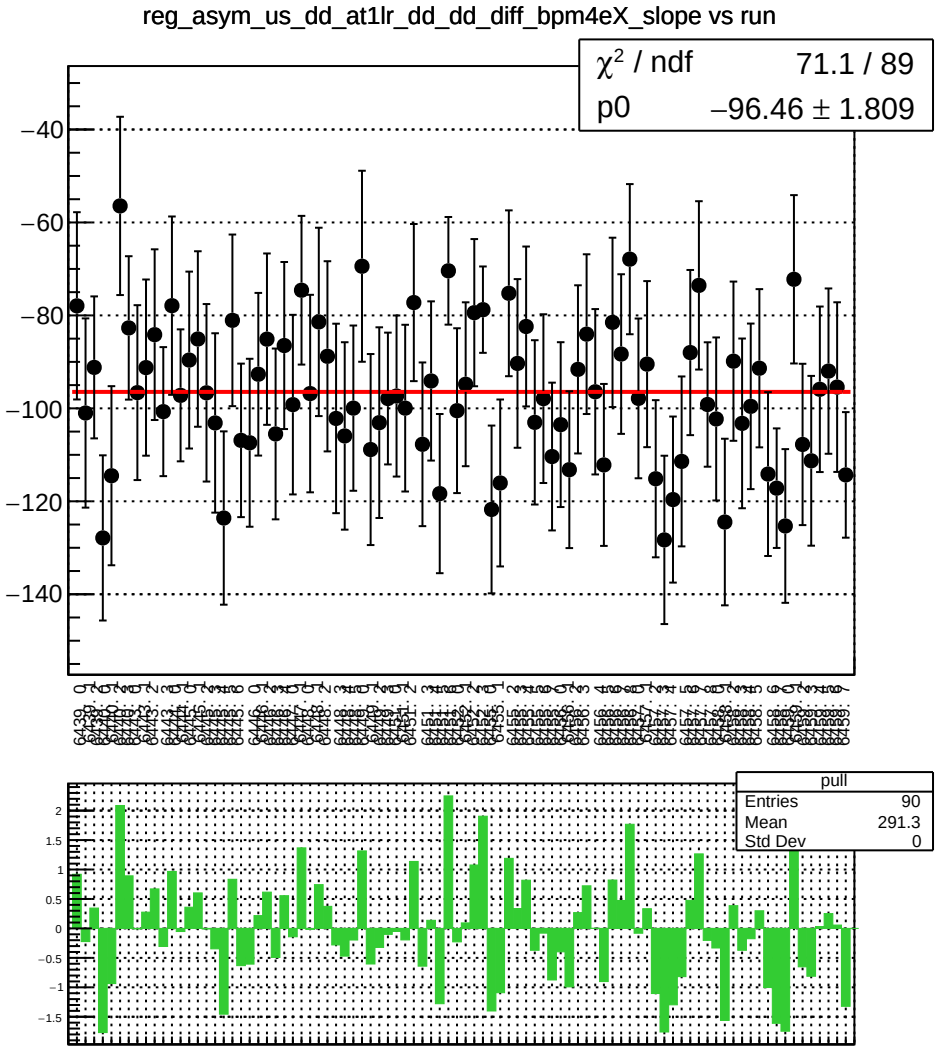

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 113.5 / 89
p0 5.39 ± 2.269
pull
Entries 90
Mean 26.68
Std Dev 0
pull1D
Entries 90
Mean 0.01845
Std Dev 1.123

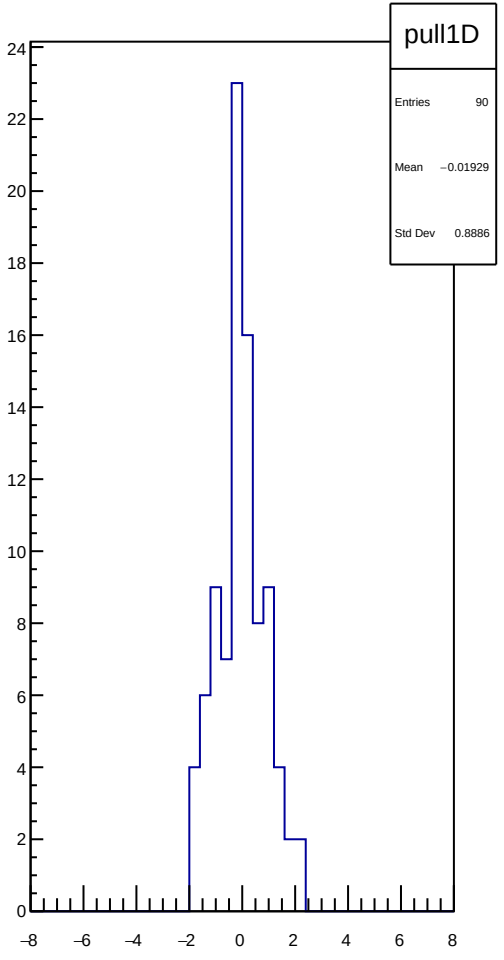

reg_asym_us_dd_at1lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 117.1 / 89
p0 3.586 ± 0.09193
pull
Entries 90
Mean −2969
Std Dev 0
pull1D
Entries 90
Mean −0.000619
Std Dev 1.141

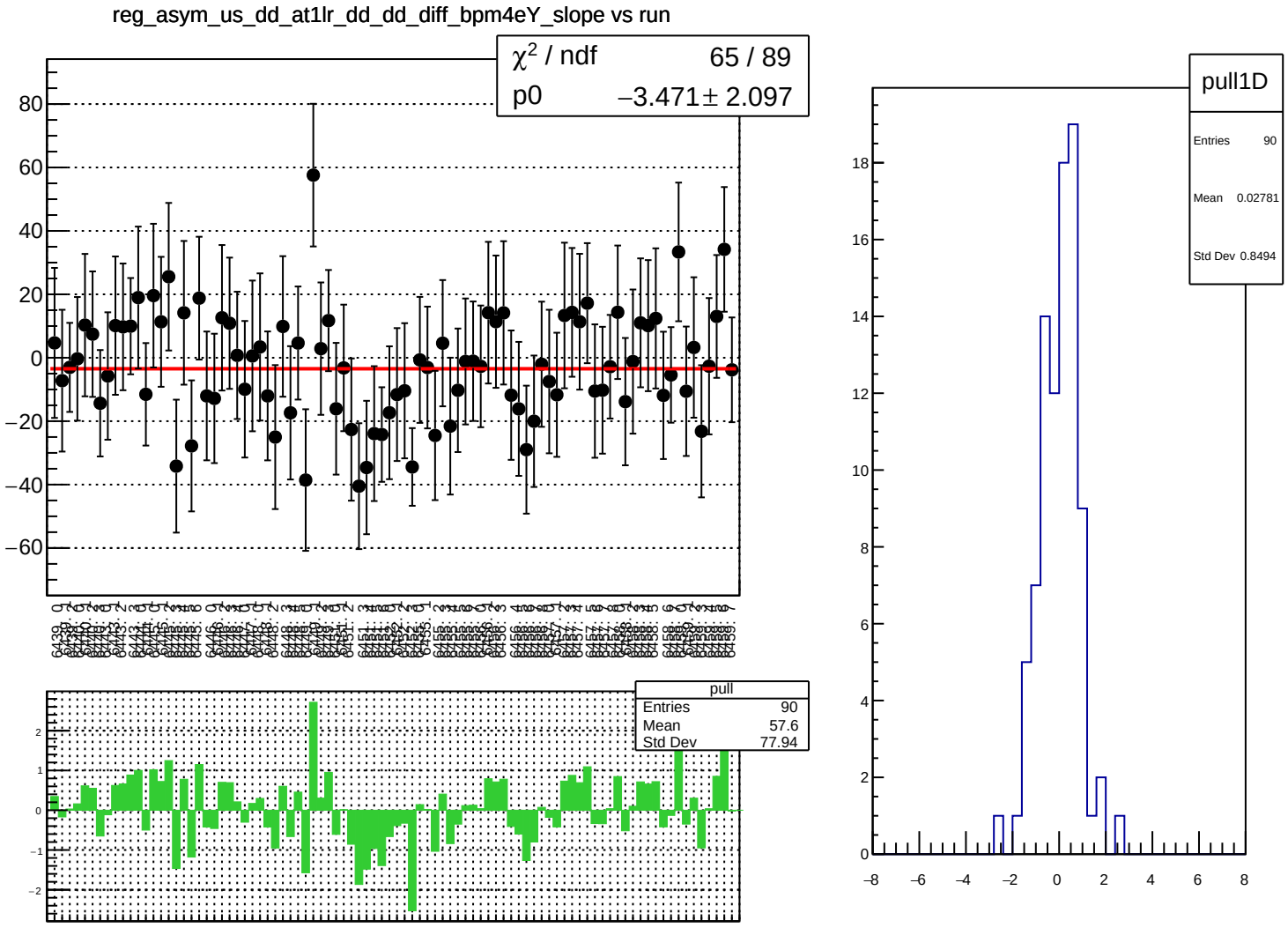

reg_asym_us_dd_at1lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 71.58 / 89
p0 −12.6 ± 1.794
pull
Entries 90
Mean 259.2
Std Dev 0

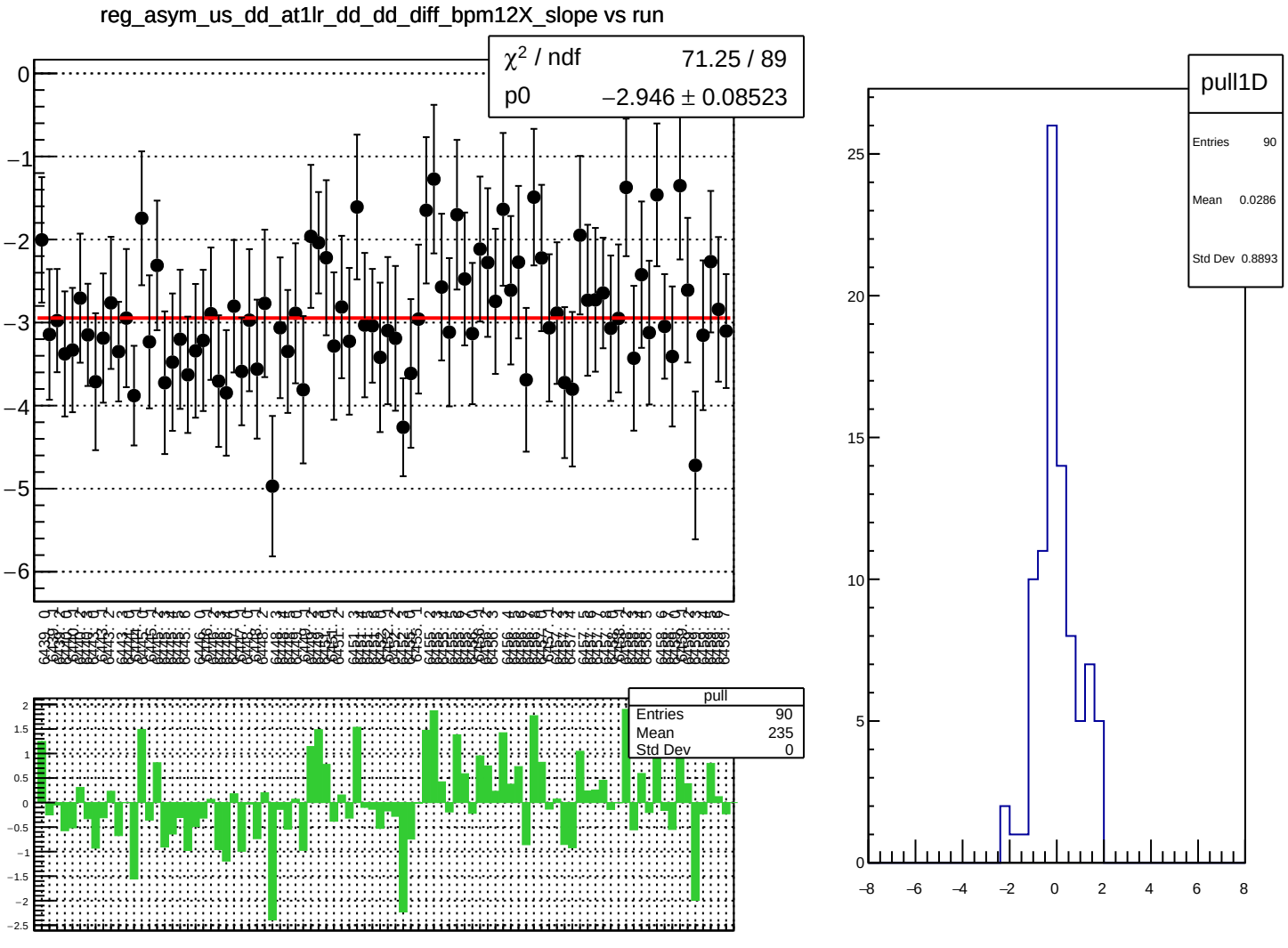

pull1D
Entries 90
Mean 0.02012
Std Dev 0.8916

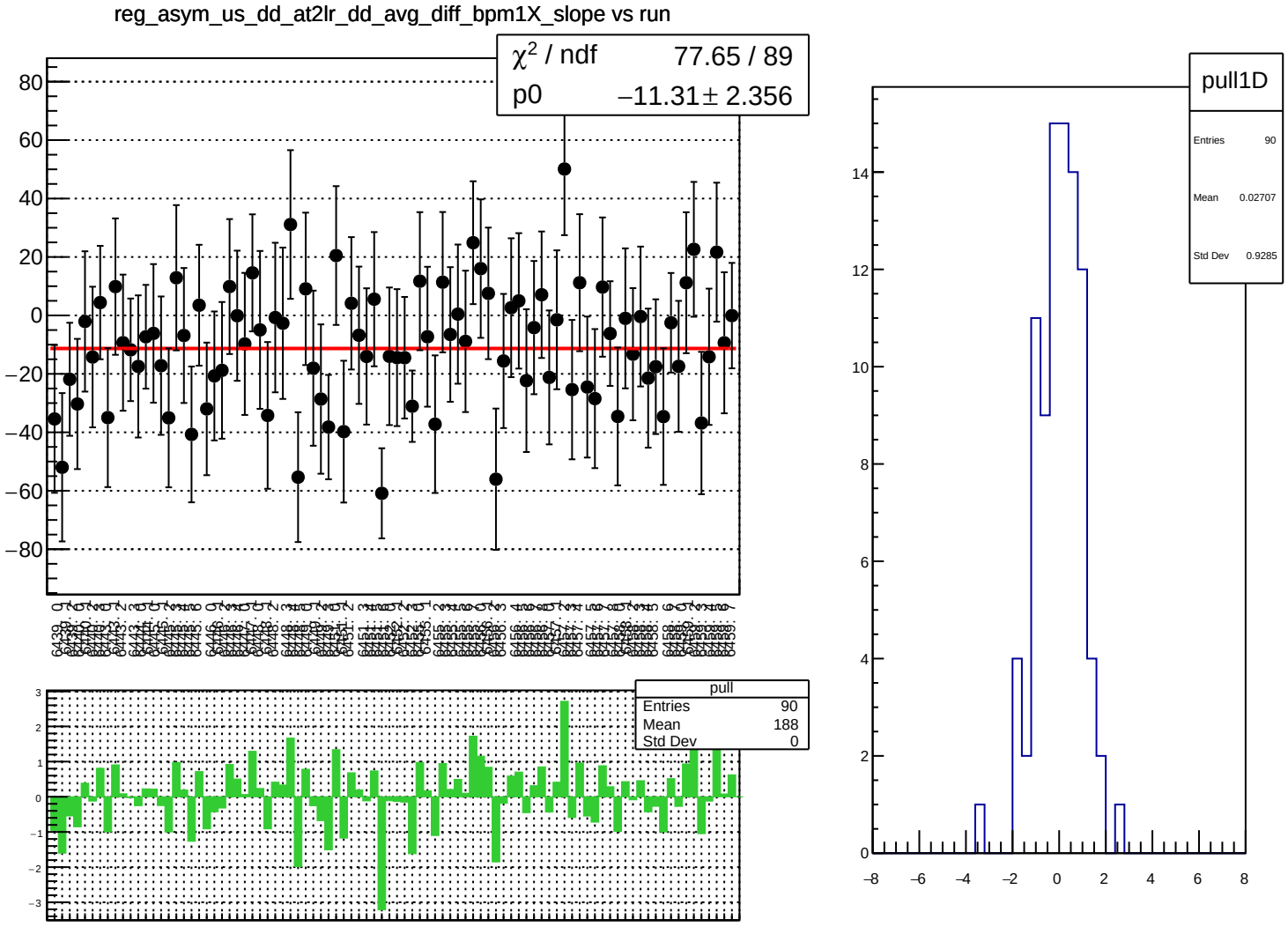

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 73.2 / 89
p0 2.133 ± 2.095
pull
Entries 90
Mean 92.24
Std Dev 59.99
pull1D
Entries 90
Mean −0.02872
Std Dev 0.9014

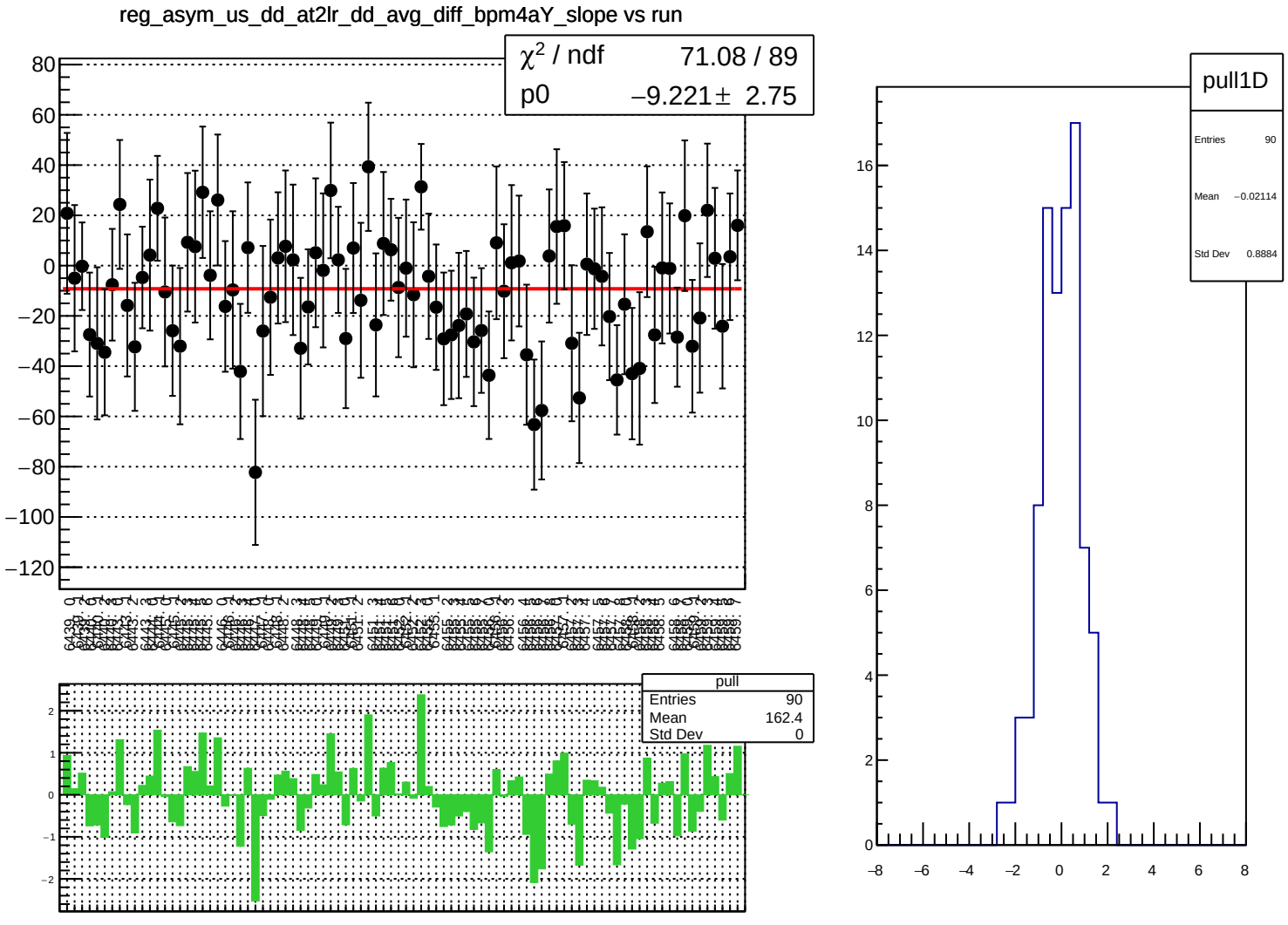

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 71.1 / 89
p0 −96.46 ± 1.809
pull
Entries 90
Mean 291.3
Std Dev 0

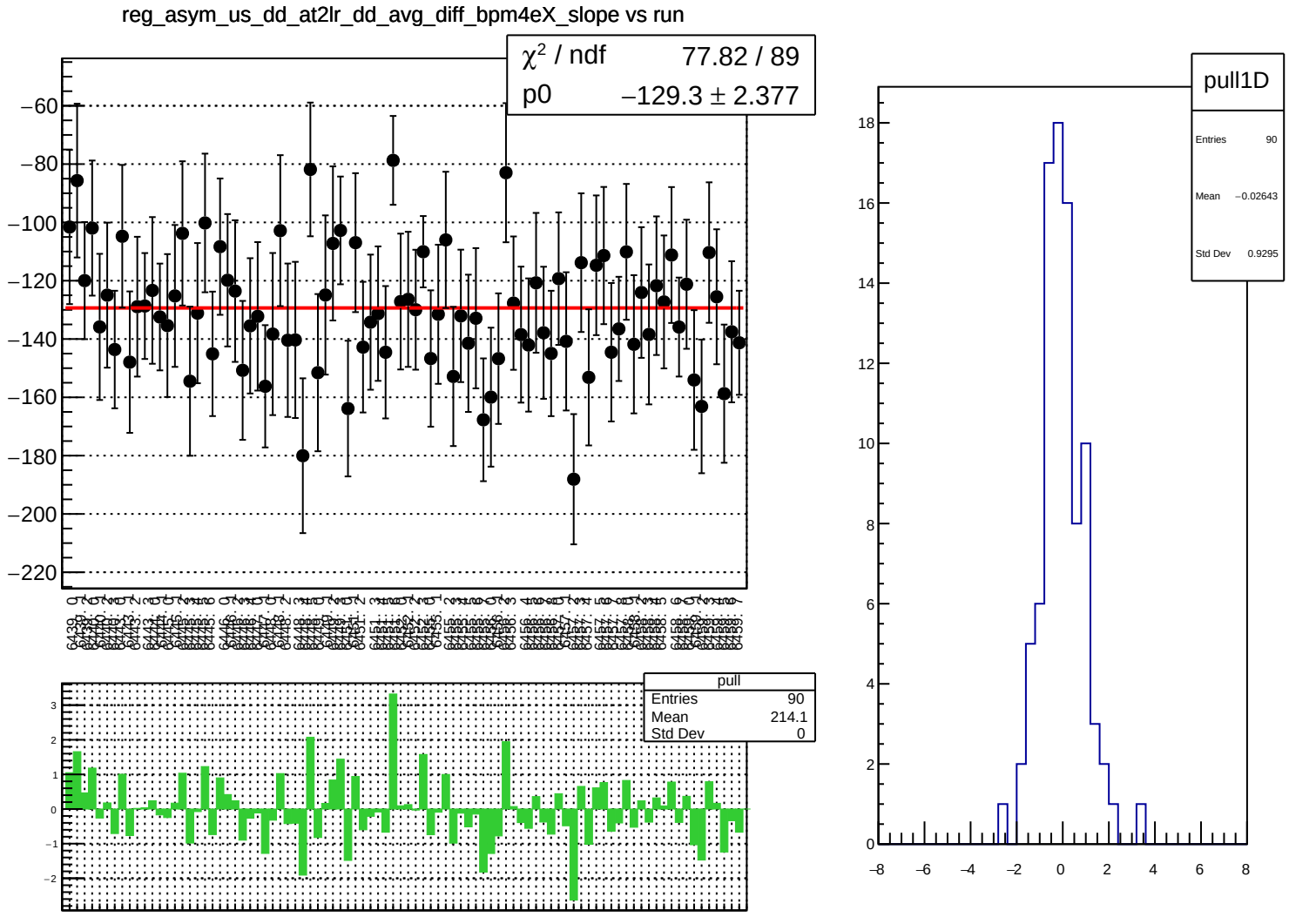

pull1D
Entries 90
Mean −0.01929
Std Dev 0.8886

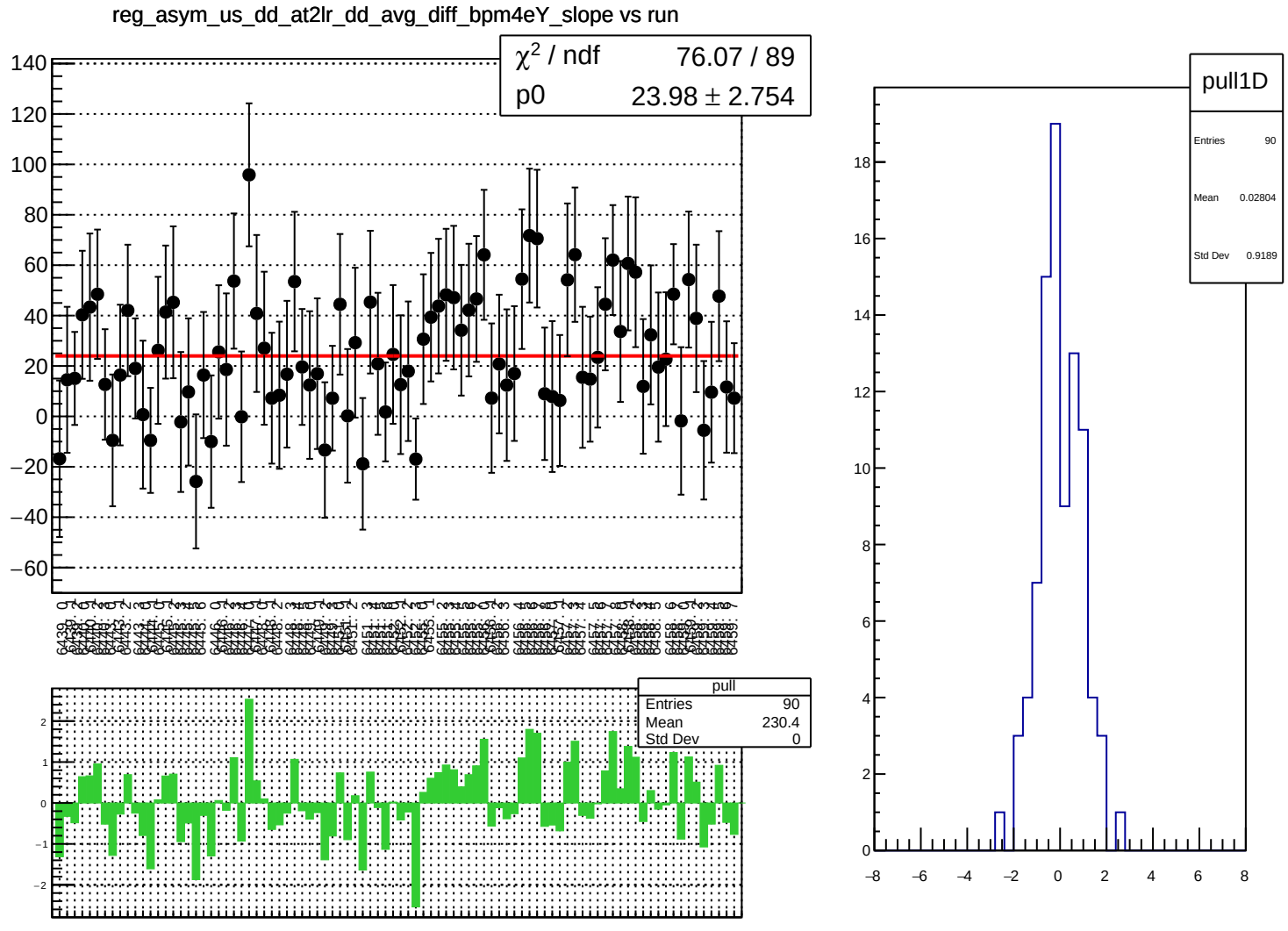

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 65 / 89
p0 −3.471 ± 2.097
pull
Entries 90
Mean 57.6
Std Dev 77.94
pull1D
Entries 90
Mean 0.02781
Std Dev 0.8494

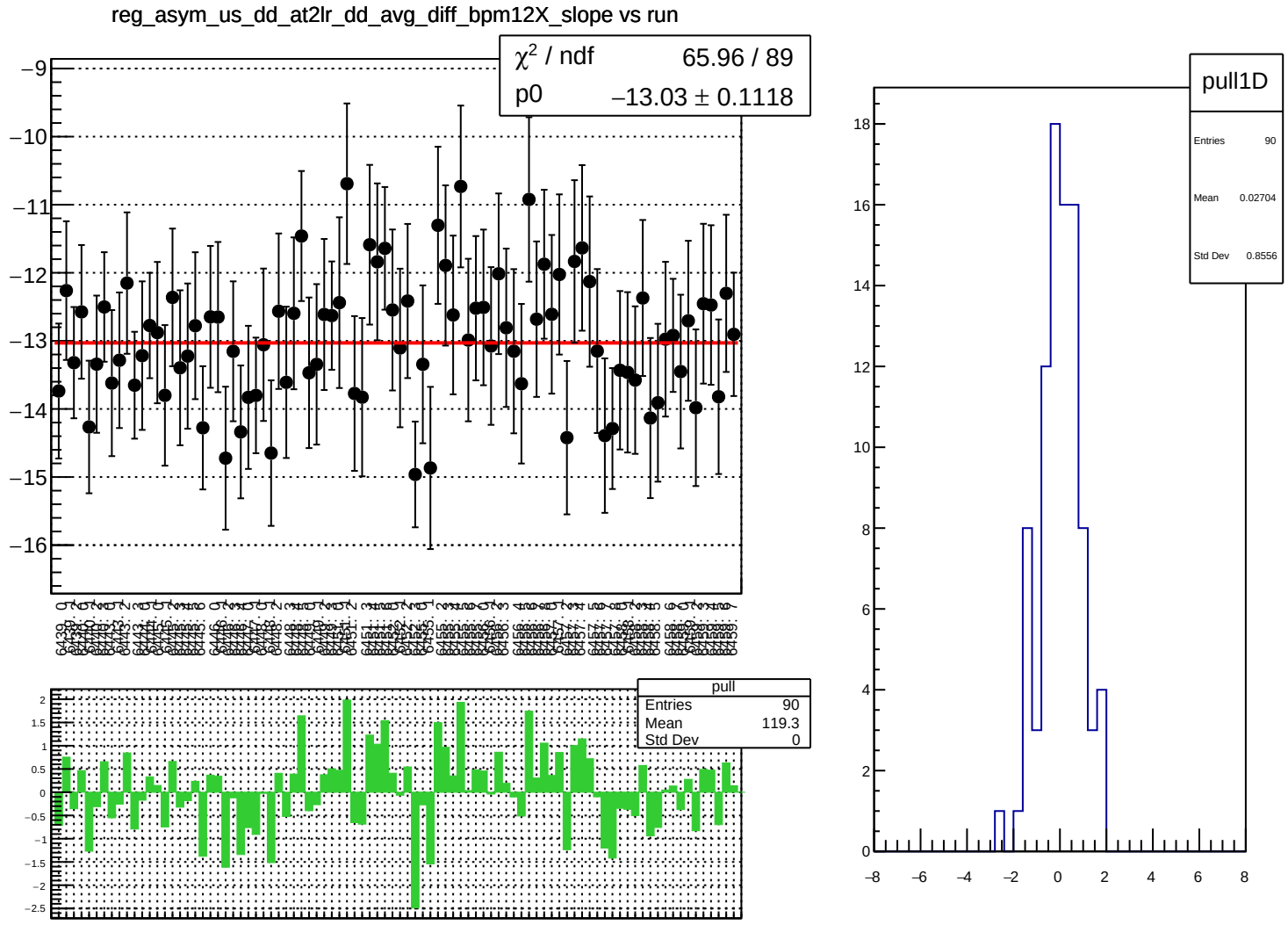

reg_asym_us_dd_at1lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 71.25 / 89
p0 −2.946 ± 0.08523
pull
Entries 90
Mean 235
Std Dev 0
pull1D
Entries 90
Mean 0.0286
Std Dev 0.8893

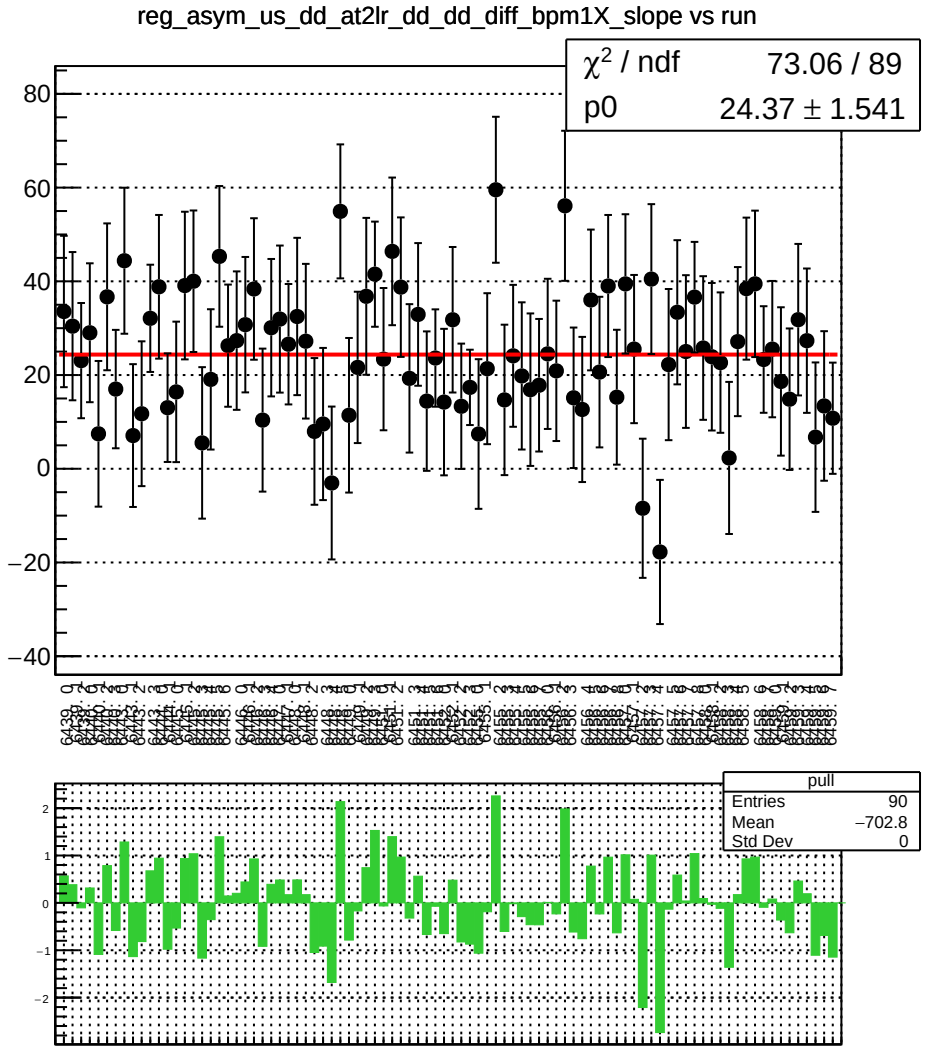

reg_asym_us_dd_at2lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 77.65 / 89
p0 −11.31 ± 2.356
pull
Entries 90
Mean 188
Std Dev 0
pull1D
Entries 90
Mean 0.02707
Std Dev 0.9285

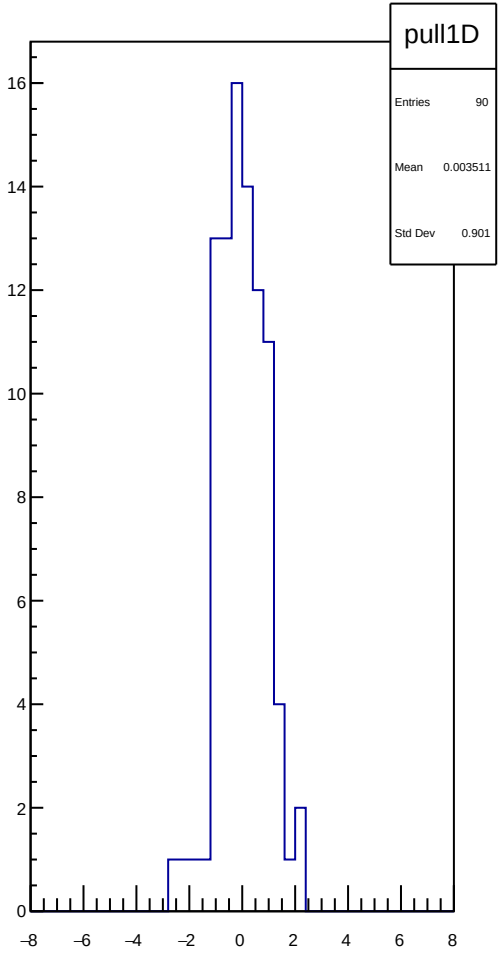

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 71.08 / 89
p0 −9.221± 2.75
pull
Entries 90
Mean 162.4
Std Dev 0
pull1D
Entries 90
Mean −0.02114
Std Dev 0.8884

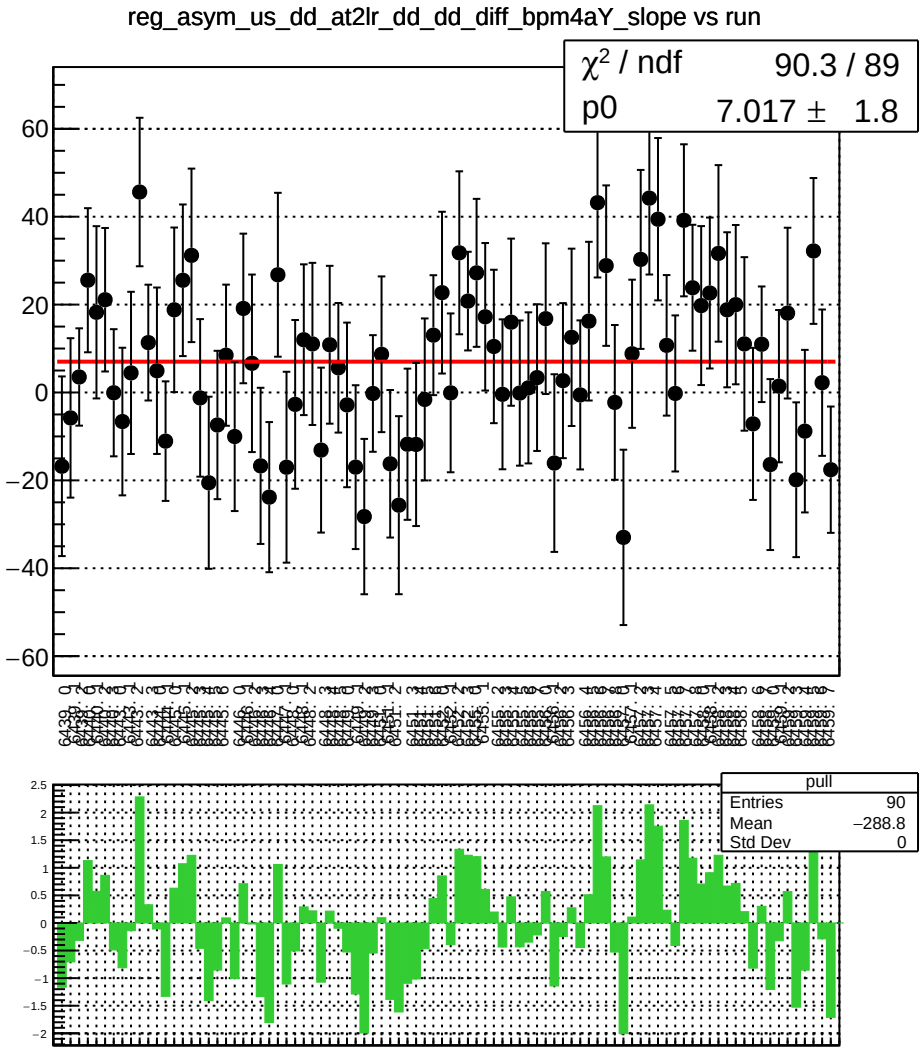

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 77.82 / 89
p0 −129.3 ± 2.377
pull
Entries 90
Mean 214.1
Std Dev 0
pull1D
Entries 90
Mean −0.02643
Std Dev 0.9295

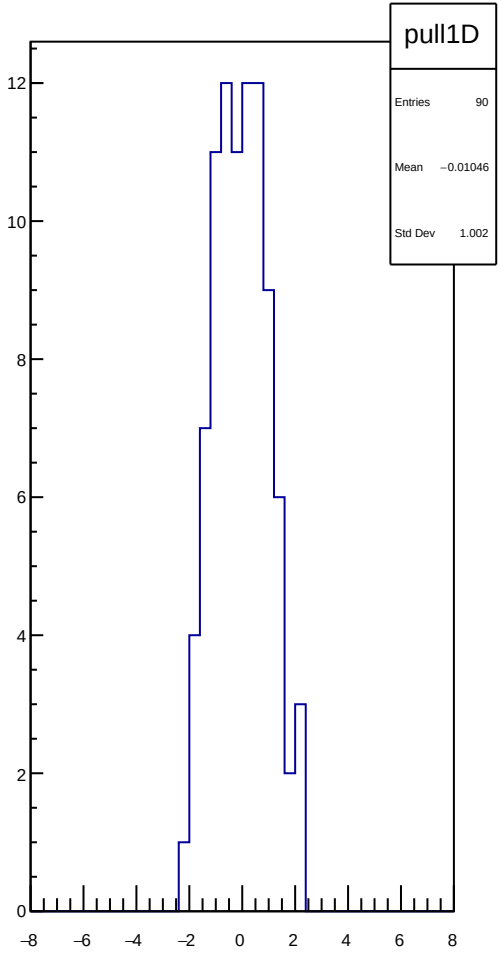

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 76.07 / 89
p0 23.98 ± 2.754
pull
Entries 90
Mean 230.4
Std Dev 0
pull1D
Entries 90
Mean 0.02804
Std Dev 0.9189

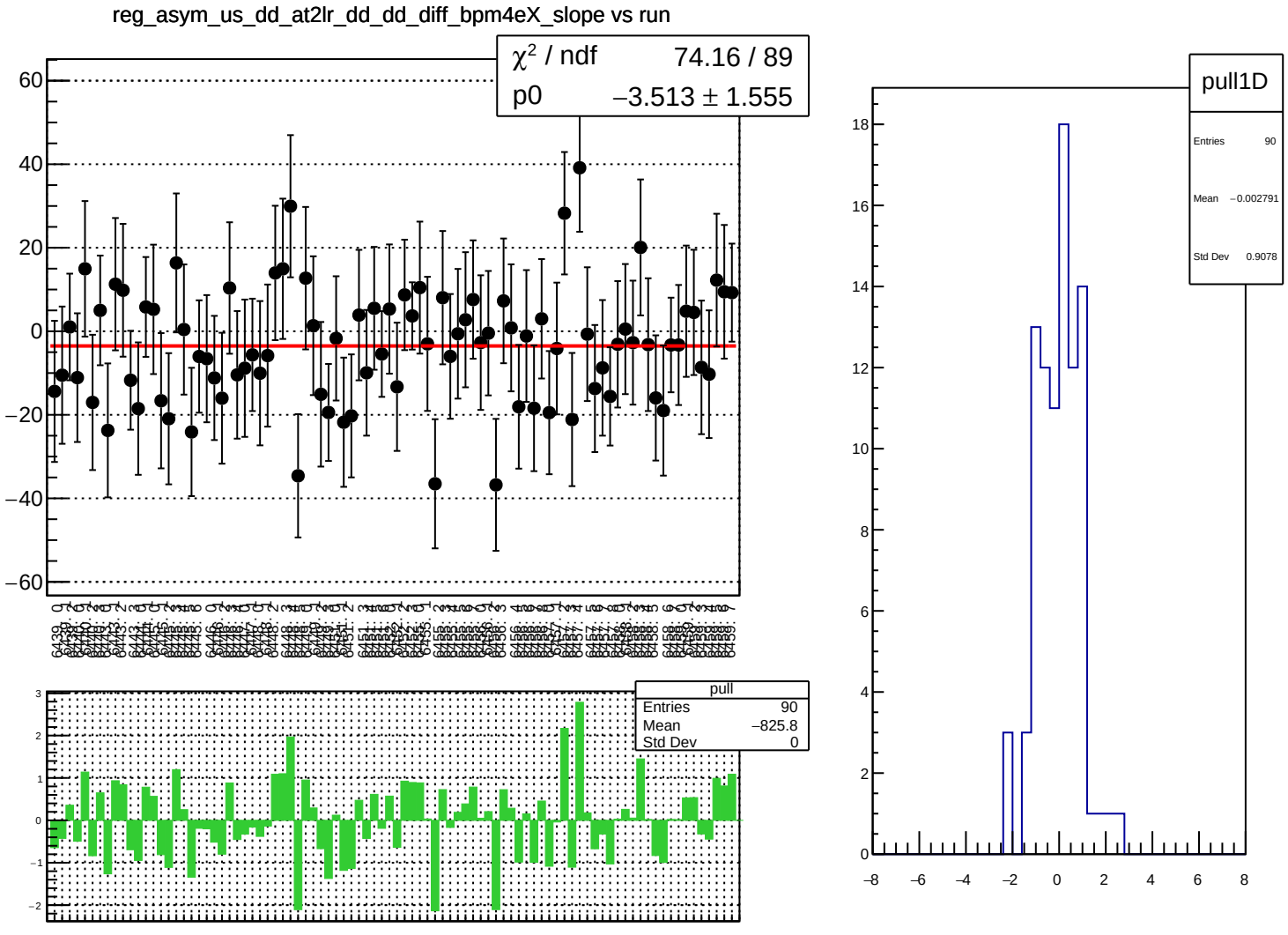

reg_asym_us_dd_at2lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 65.96 / 89
p0 −13.03 ± 0.1118
pull
Entries 90
Mean 119.3
Std Dev 0
pull1D
Entries 90
Mean 0.02704
Std Dev 0.8556

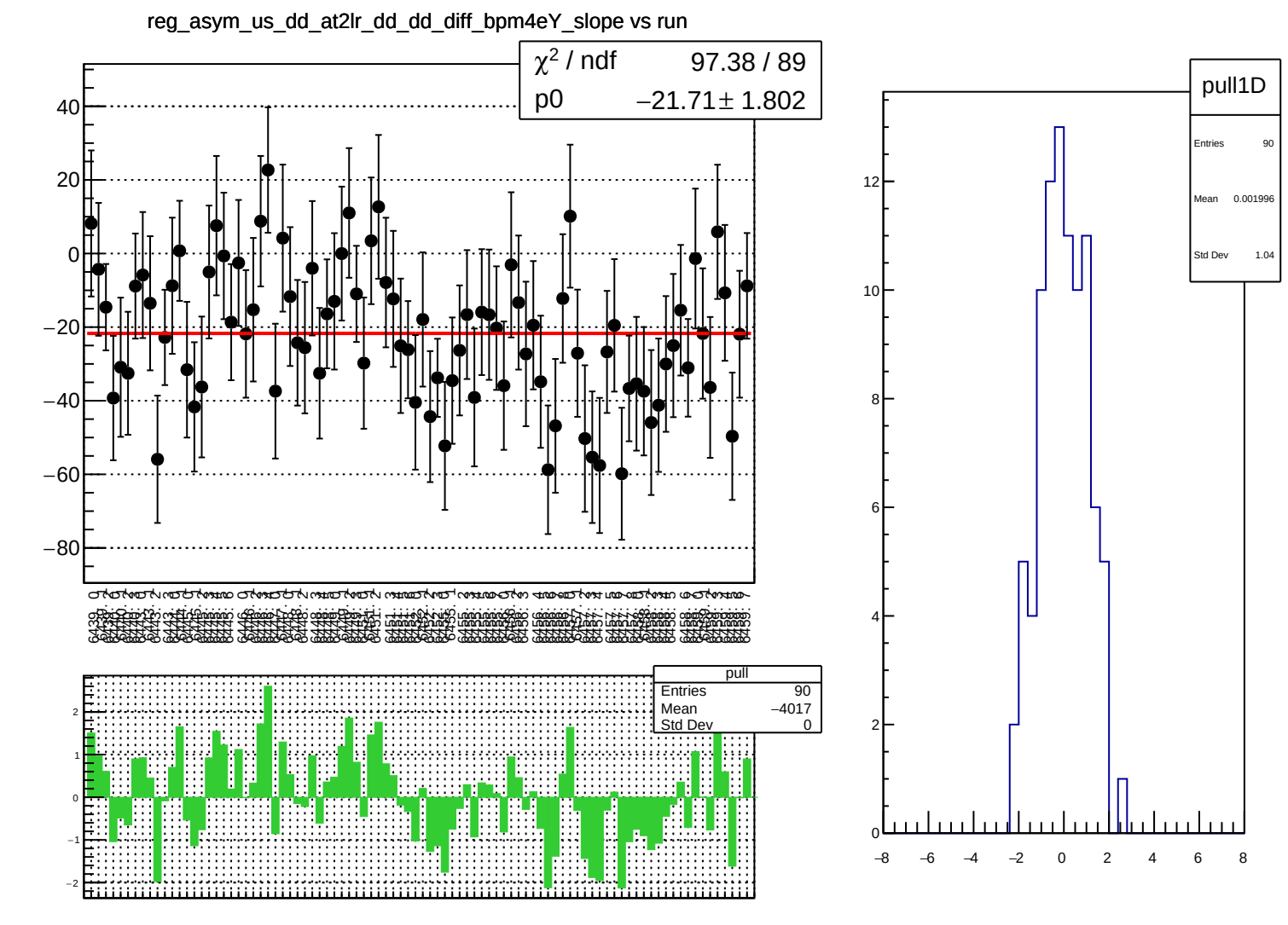

reg_asym_us_dd_at2lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 73.06 / 89
p0 24.37 ± 1.541
pull
Entries 90
Mean −702.8
Std Dev 0

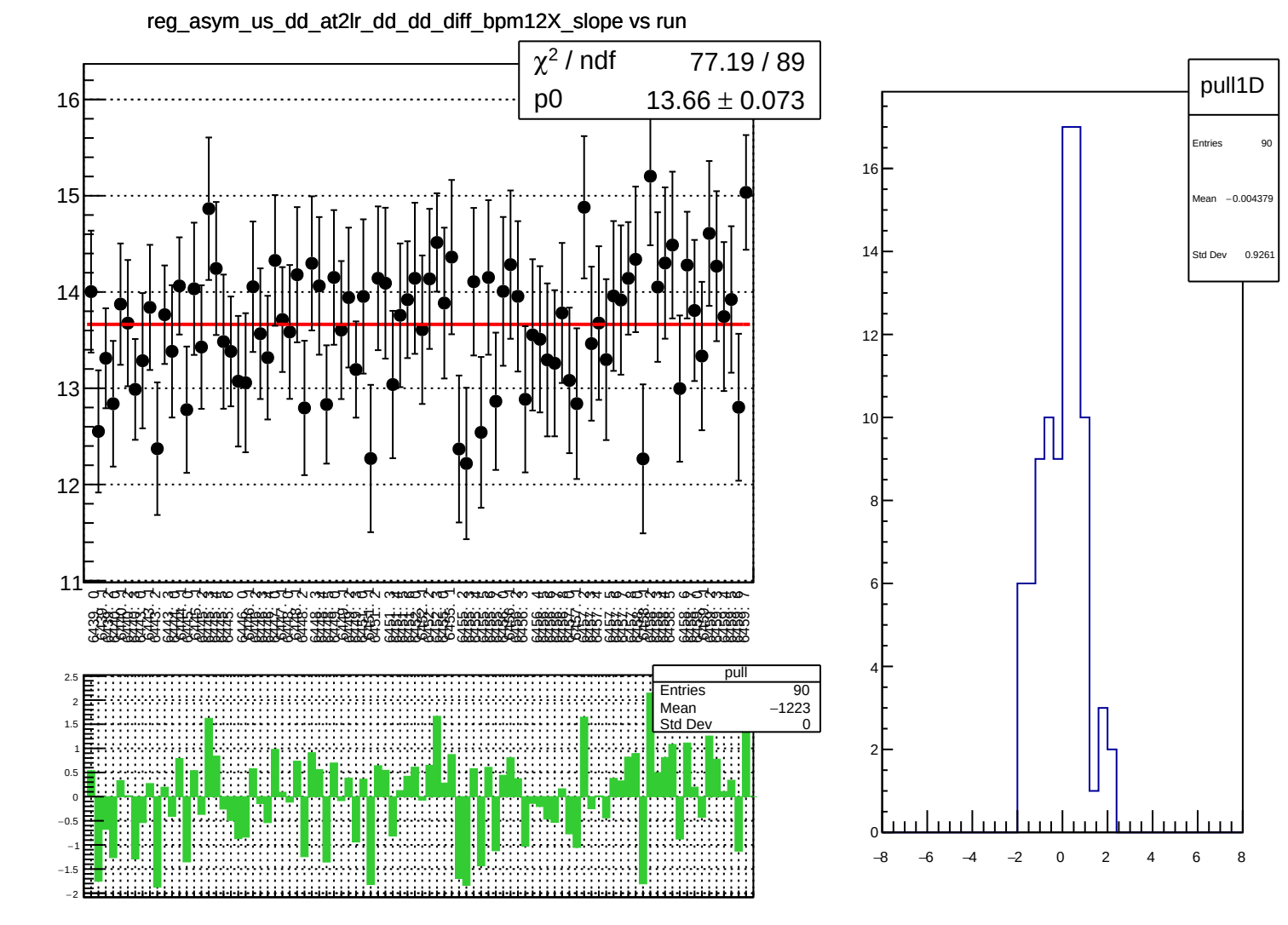

pull1D
Entries 90
Mean 0.003511
Std Dev 0.901

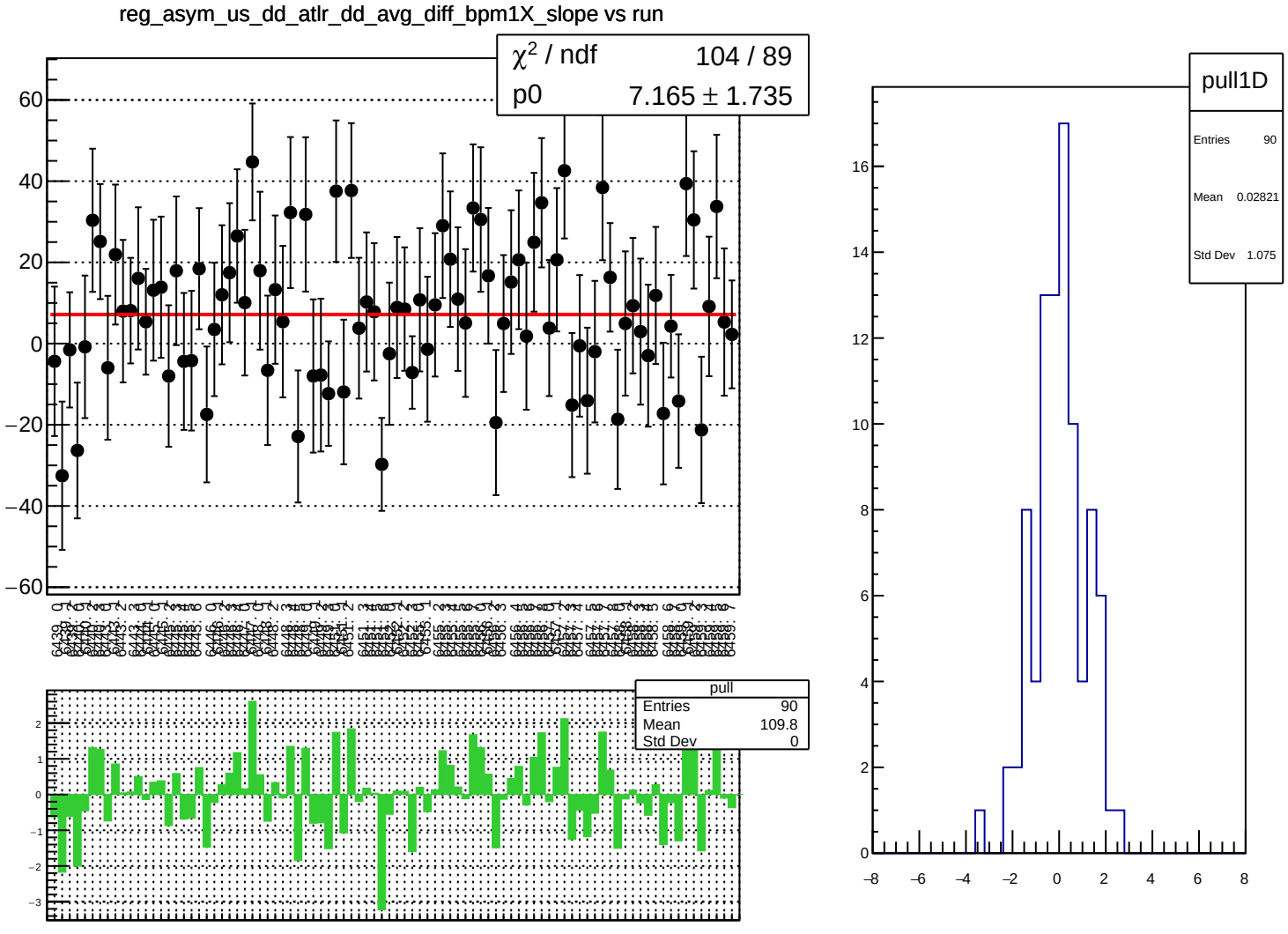

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 90.3 / 89
p0 7.017 ± 1.8
pull
Entries 90
Mean −288.8
Std Dev 0

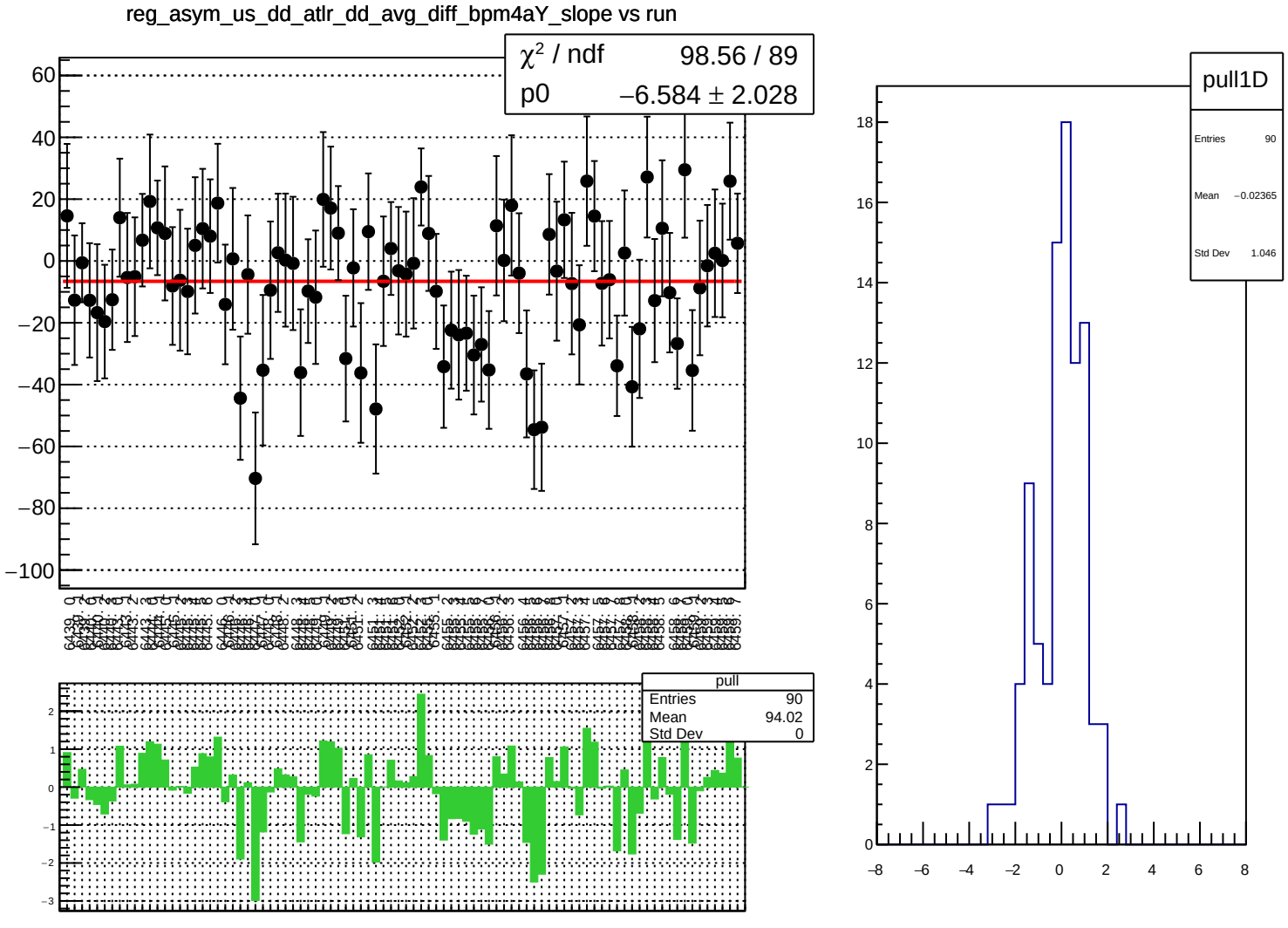

pull1D
Entries 90
Mean −0.01046
Std Dev 1.002

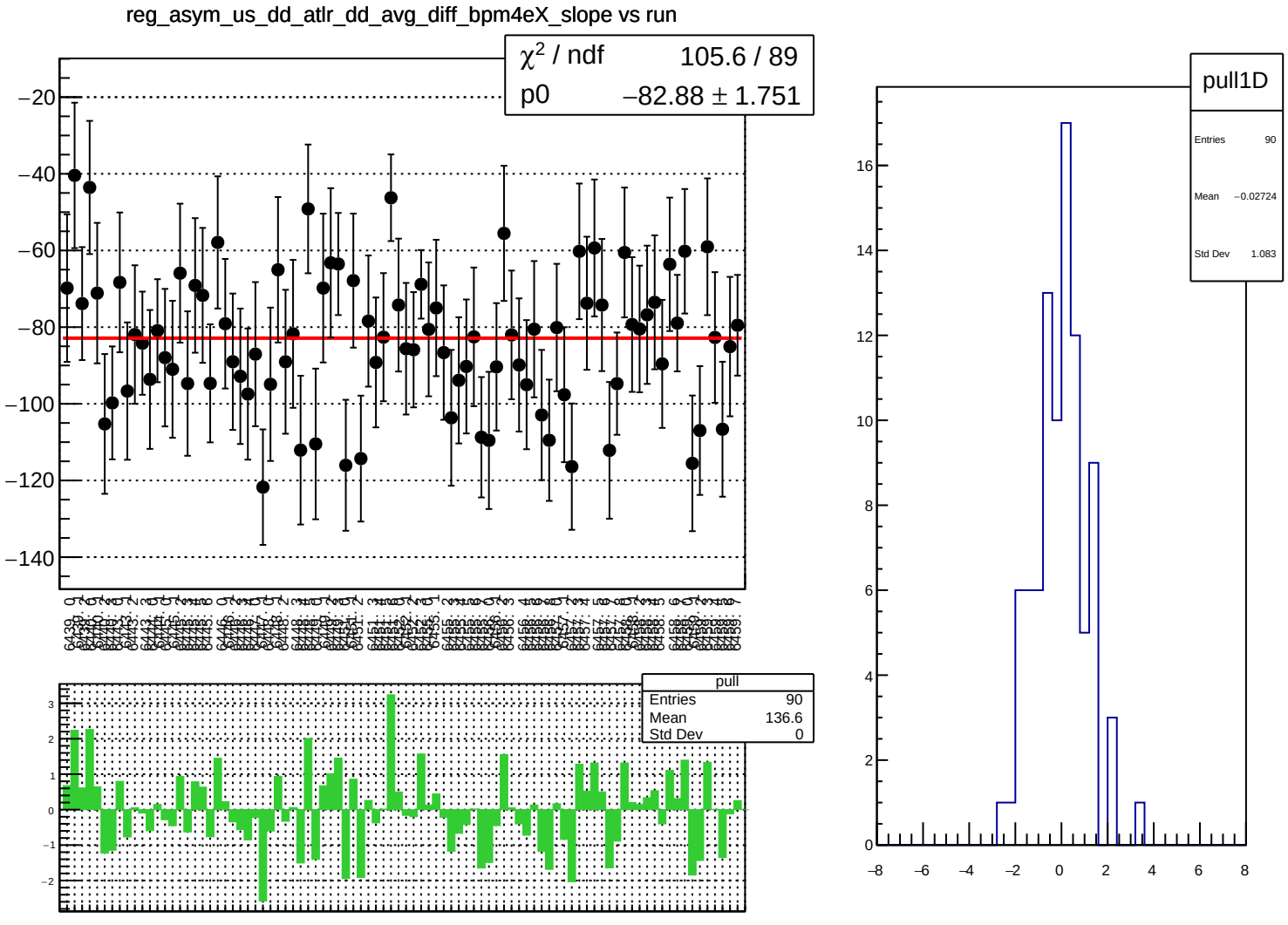

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 74.16 / 89
p0 −3.513 ± 1.555
pull
Entries 90
Mean −825.8
Std Dev 0
pull1D
Entries 90
Mean −0.002791
Std Dev 0.9078

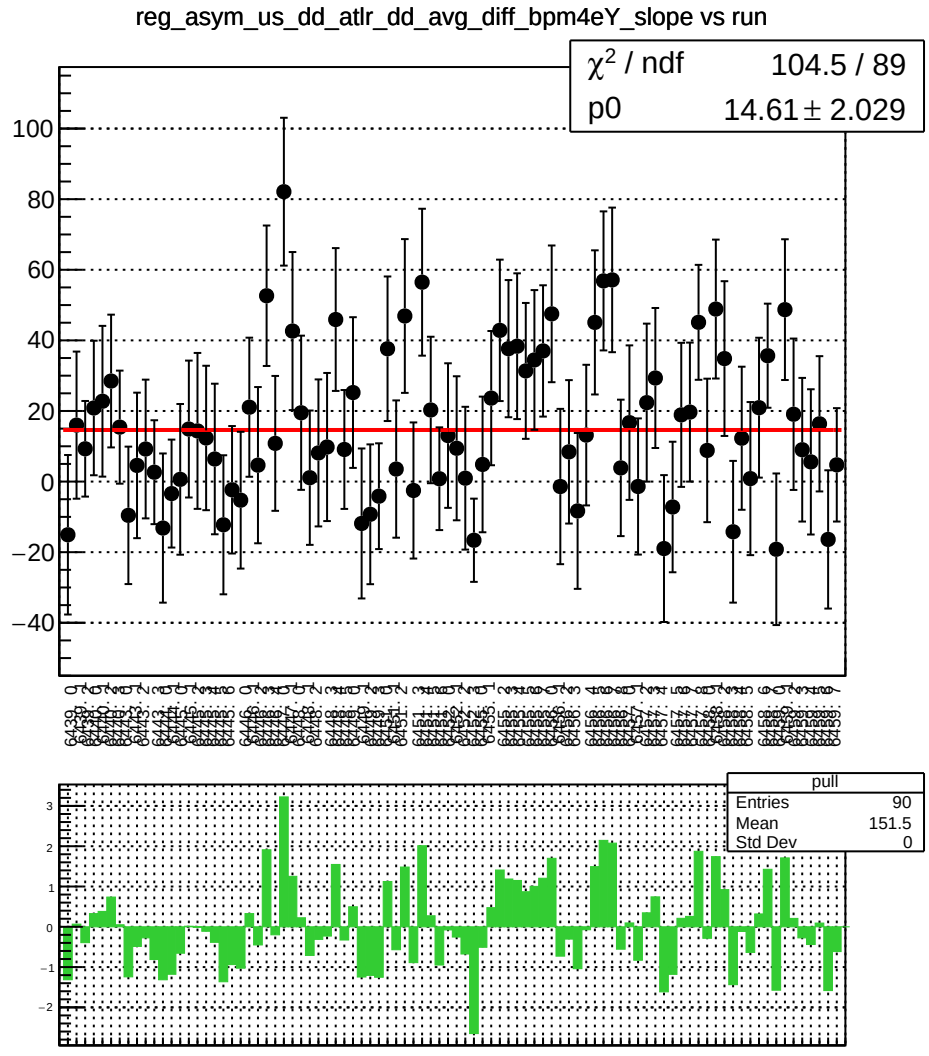

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 97.38 / 89
p0 −21.71± 1.802
pull
Entries 90
Mean −4017
Std Dev 0
pull1D
Entries 90
Mean 0.001996
Std Dev 1.04

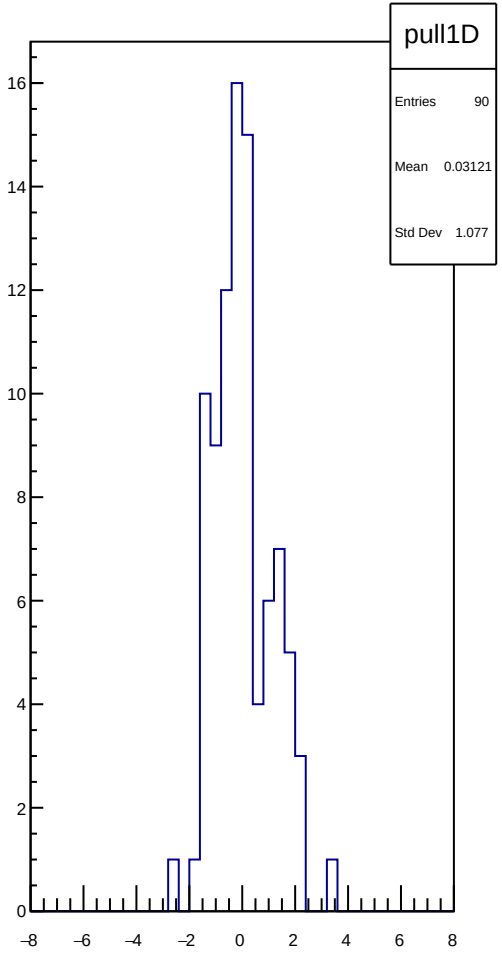

reg_asym_us_dd_at2lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 77.19 / 89
p0 13.66 ± 0.073
pull
Entries 90
Mean −1223
Std Dev 0
pull1D
Entries 90
Mean −0.004379
Std Dev 0.9261

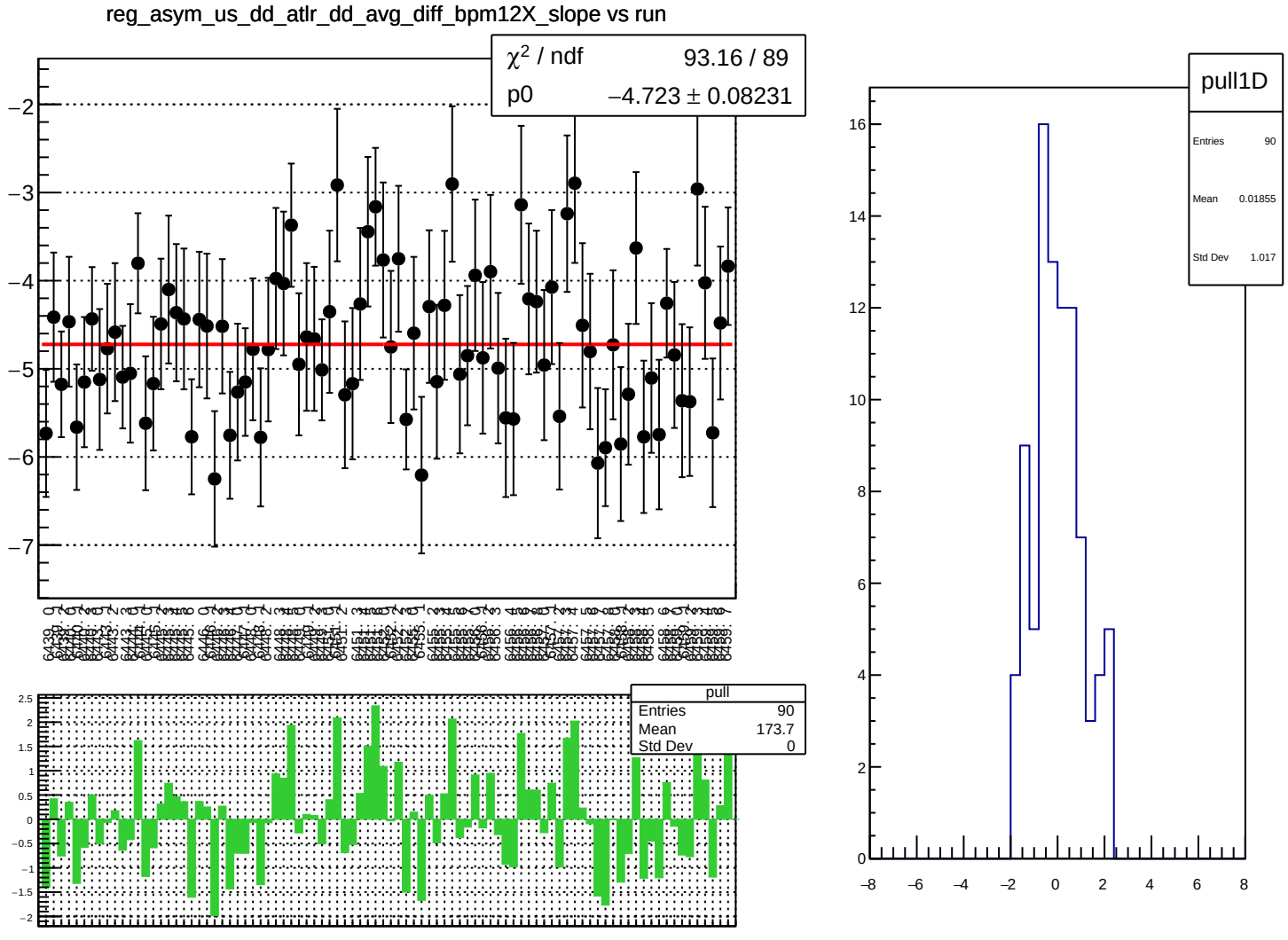

reg_asym_us_dd_atlr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 104 / 89
p0 7.165 ± 1.735
pull
Entries 90
Mean 109.8
Std Dev 0
pull1D
Entries 90
Mean 0.02821
Std Dev 1.075

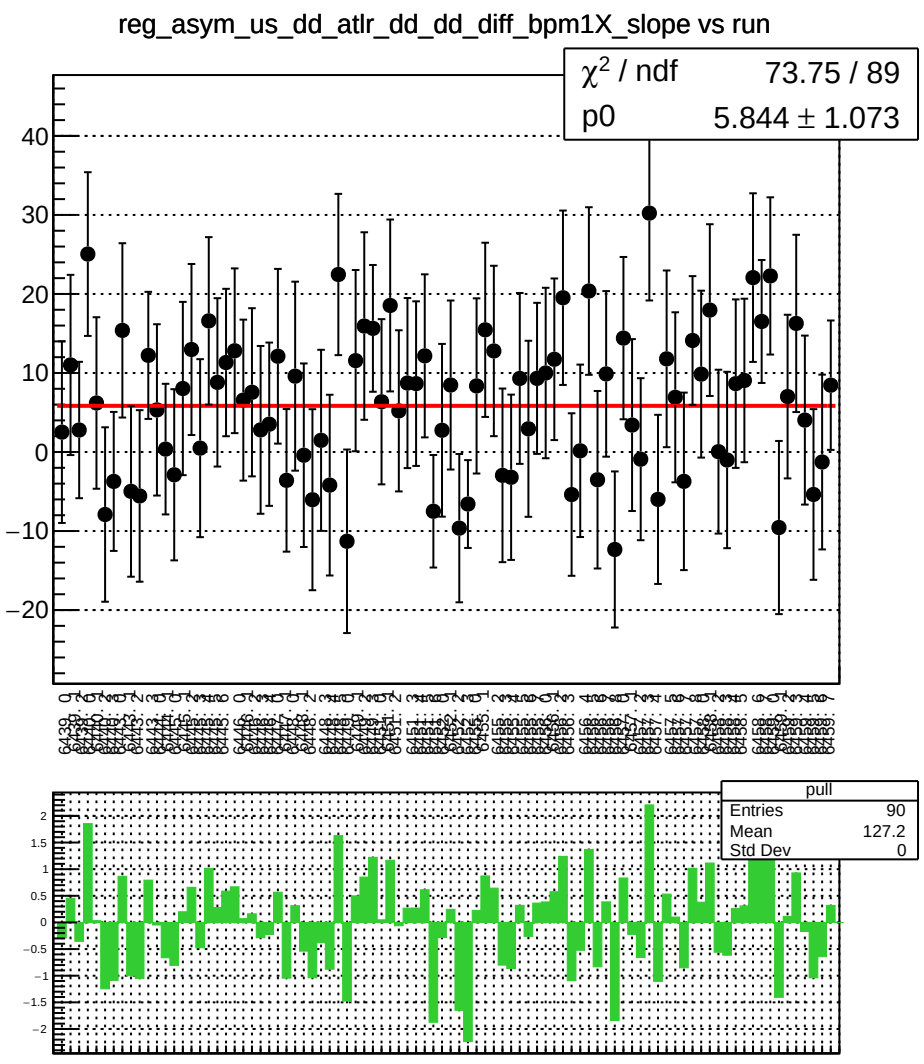

reg_asym_us_dd_atlr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 98.56 / 89
p0 −6.584 ± 2.028
pull
Entries 90
Mean 94.02
Std Dev 0
pull1D
Entries 90
Mean −0.02365
Std Dev 1.046

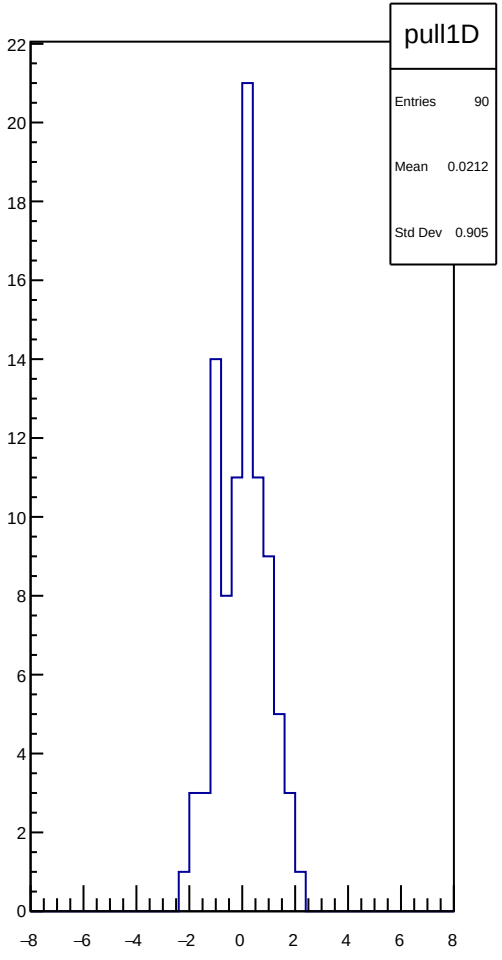

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 105.6 / 89
p0 −82.88 ± 1.751
pull
Entries 90
Mean 136.6
Std Dev 0
pull1D
Entries 90
Mean −0.02724
Std Dev 1.083

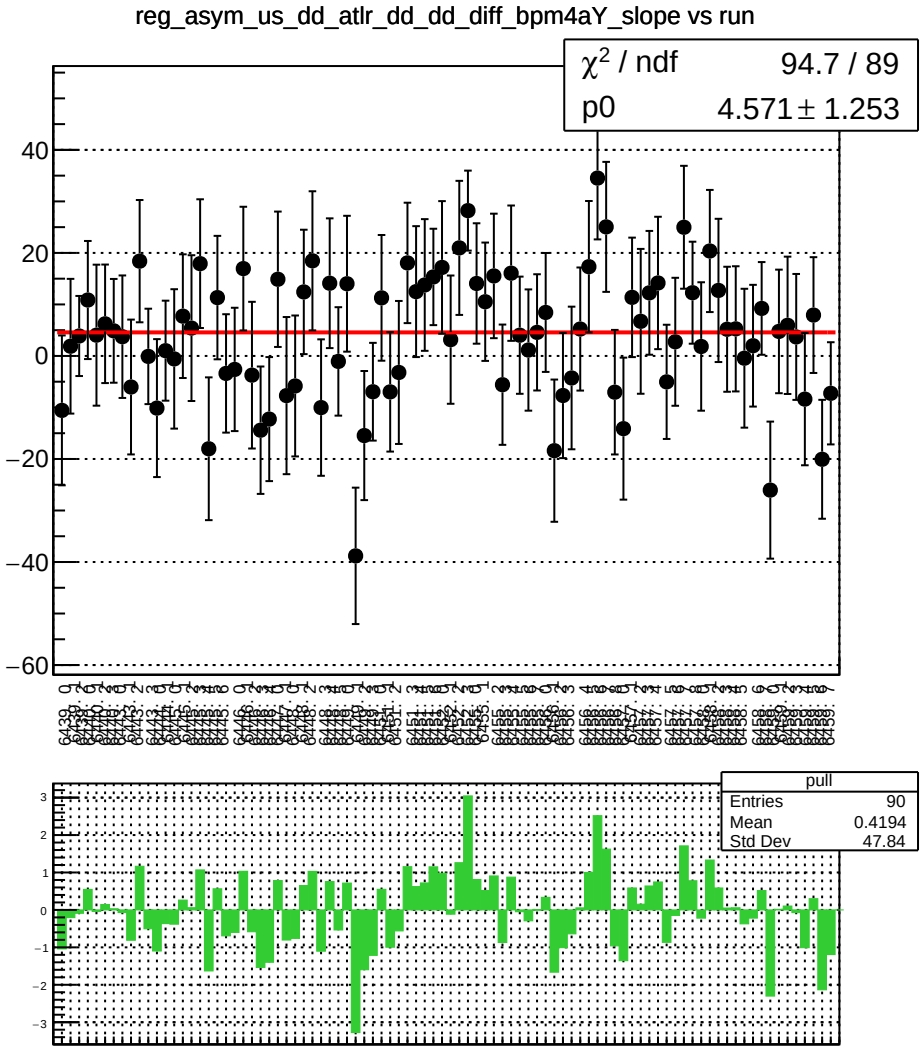

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 104.5 / 89
p0 14.61 ± 2.029
pull
Entries 90
Mean 151.5
Std Dev 0

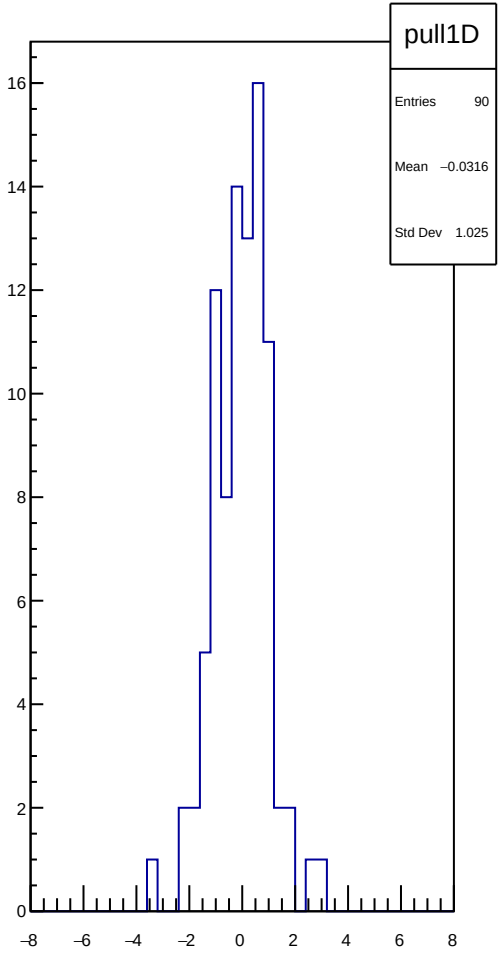

pull1D
Entries 90
Mean 0.03121
Std Dev 1.077

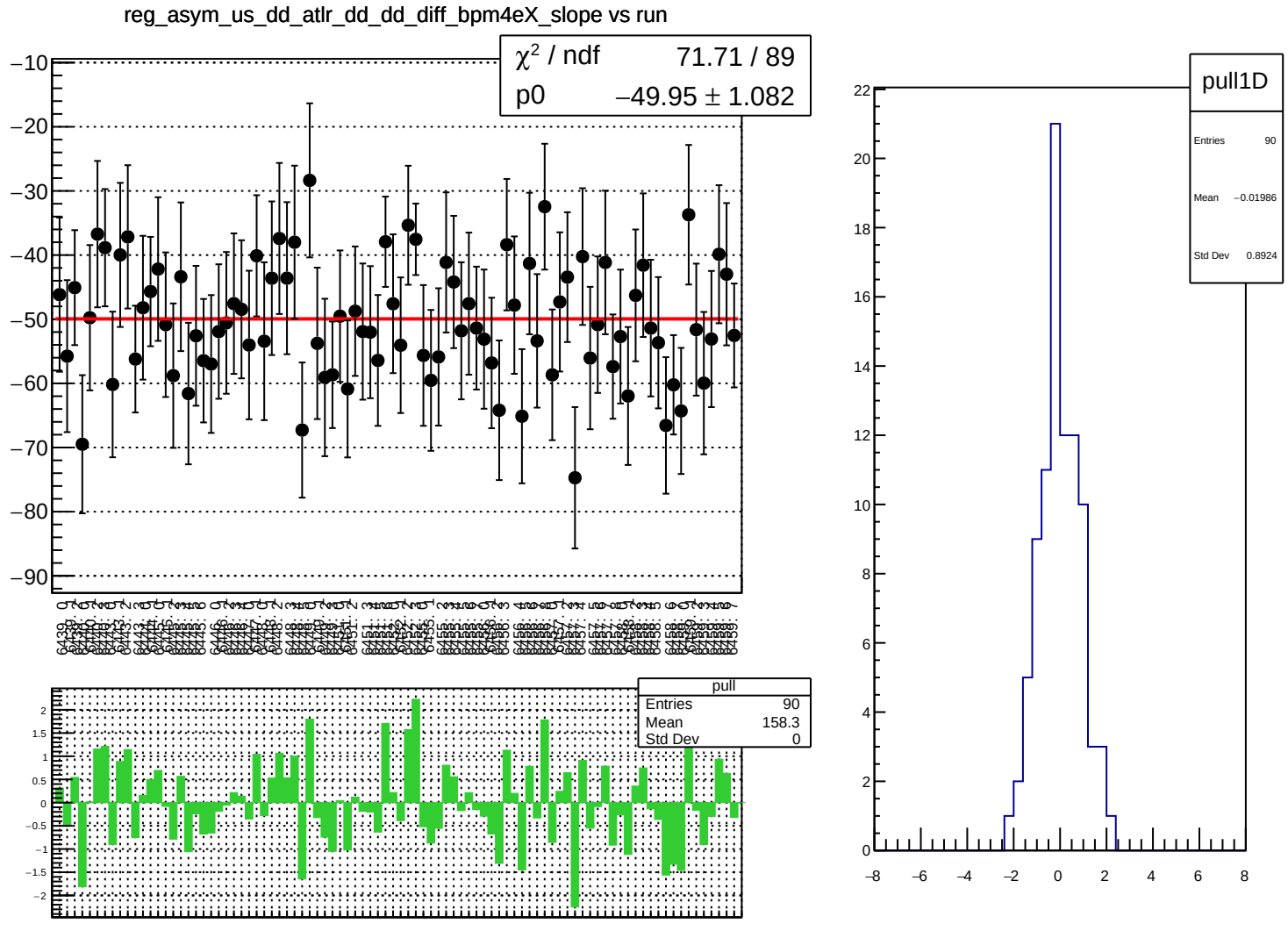

reg_asym_us_dd_atlr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 93.16 / 89
p0 −4.723 ± 0.08231
pull
Entries 90
Mean 173.7
Std Dev 0
pull1D
Entries 90
Mean 0.01855
Std Dev 1.017

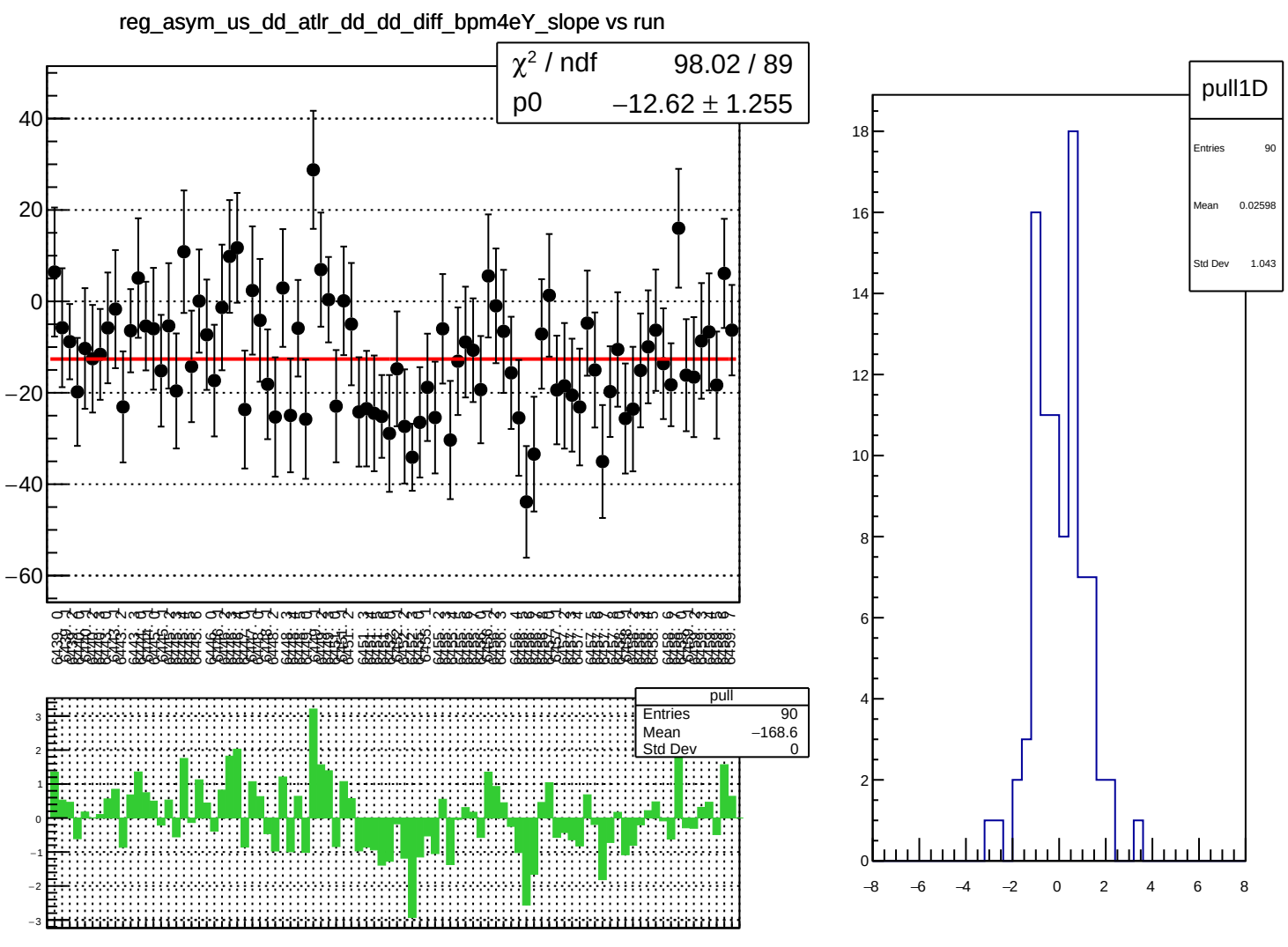

reg_asym_us_dd_atlr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 73.75 / 89
p0 5.844 ± 1.073
pull
Entries 90
Mean 127.2
Std Dev 0

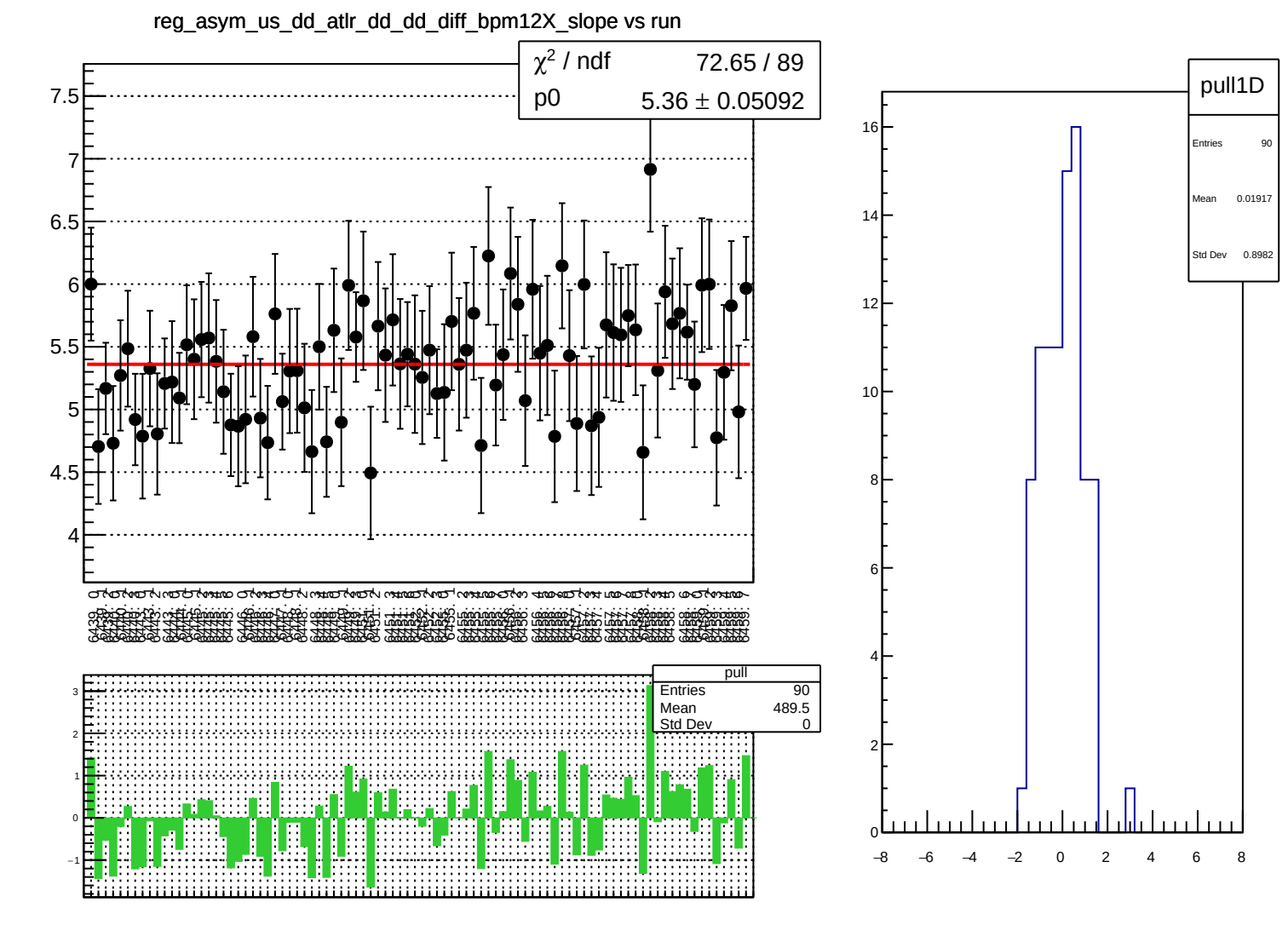

pull1D
Entries 90
Mean 0.0212
Std Dev 0.905

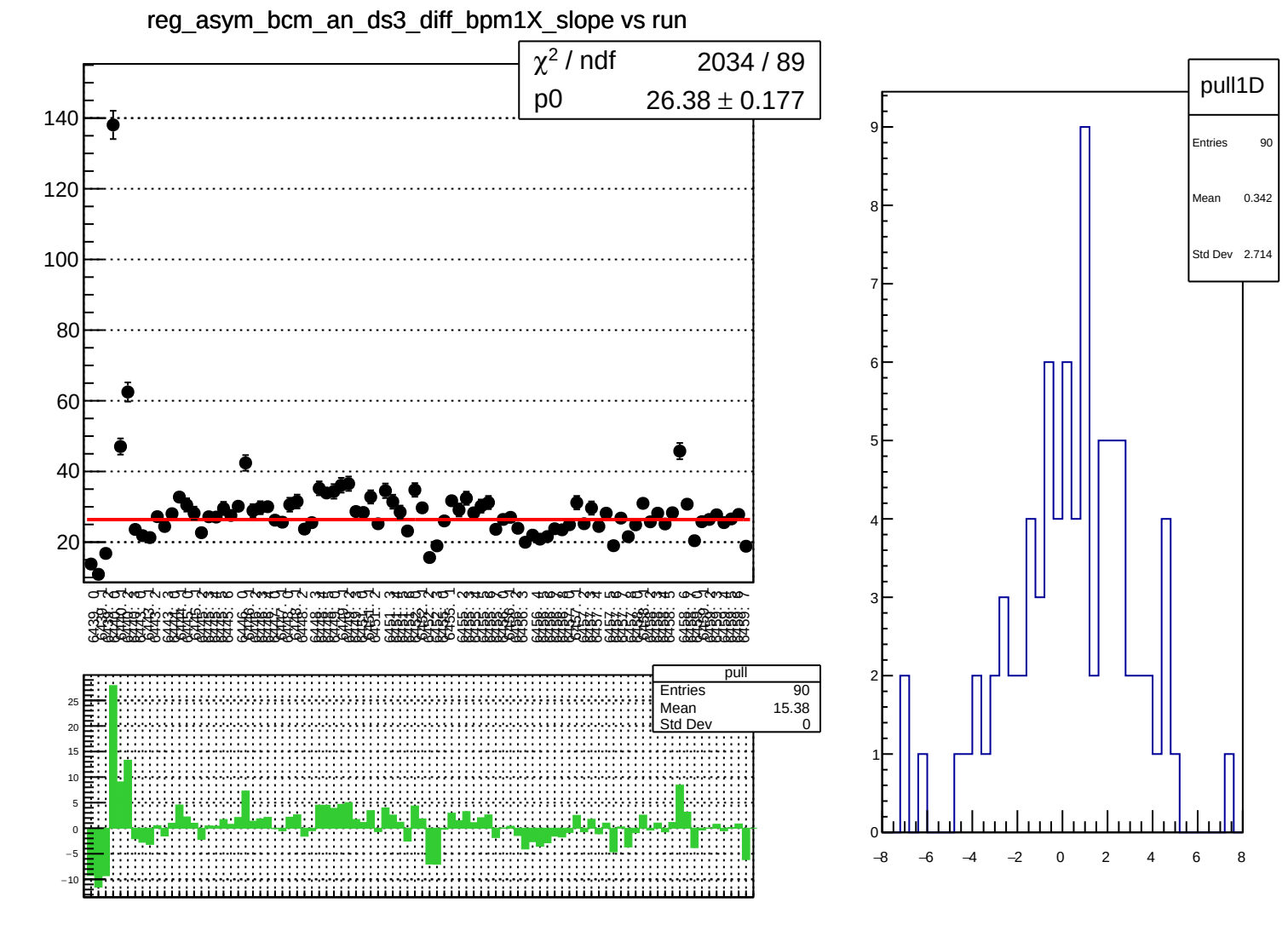

reg_asym_us_dd_atlr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 94.7 / 89
p0 4.571 ± 1.253
pull
Entries 90
Mean 0.4194
Std Dev 47.84

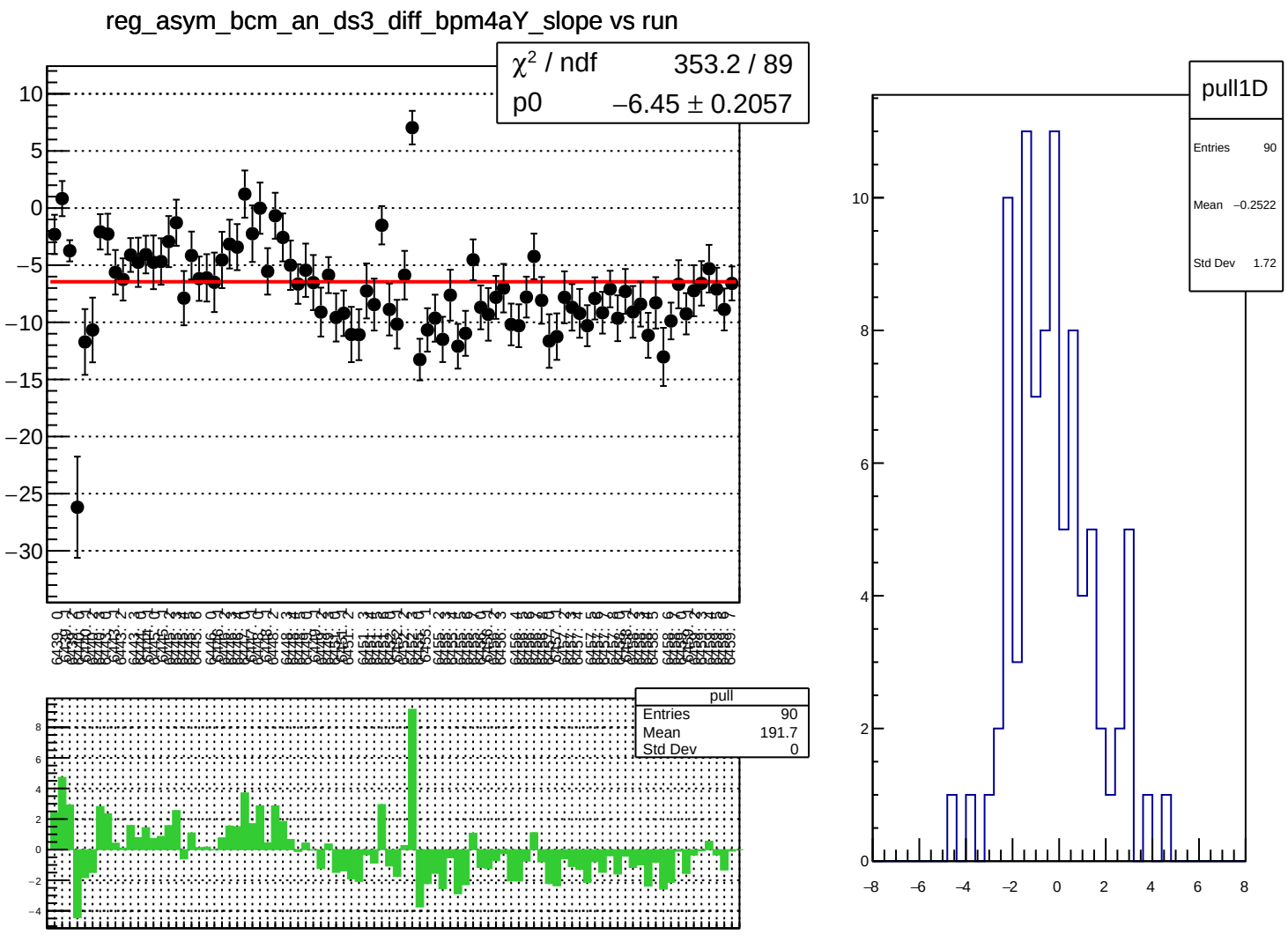

pull1D
Entries 90
Mean −0.0316
Std Dev 1.025

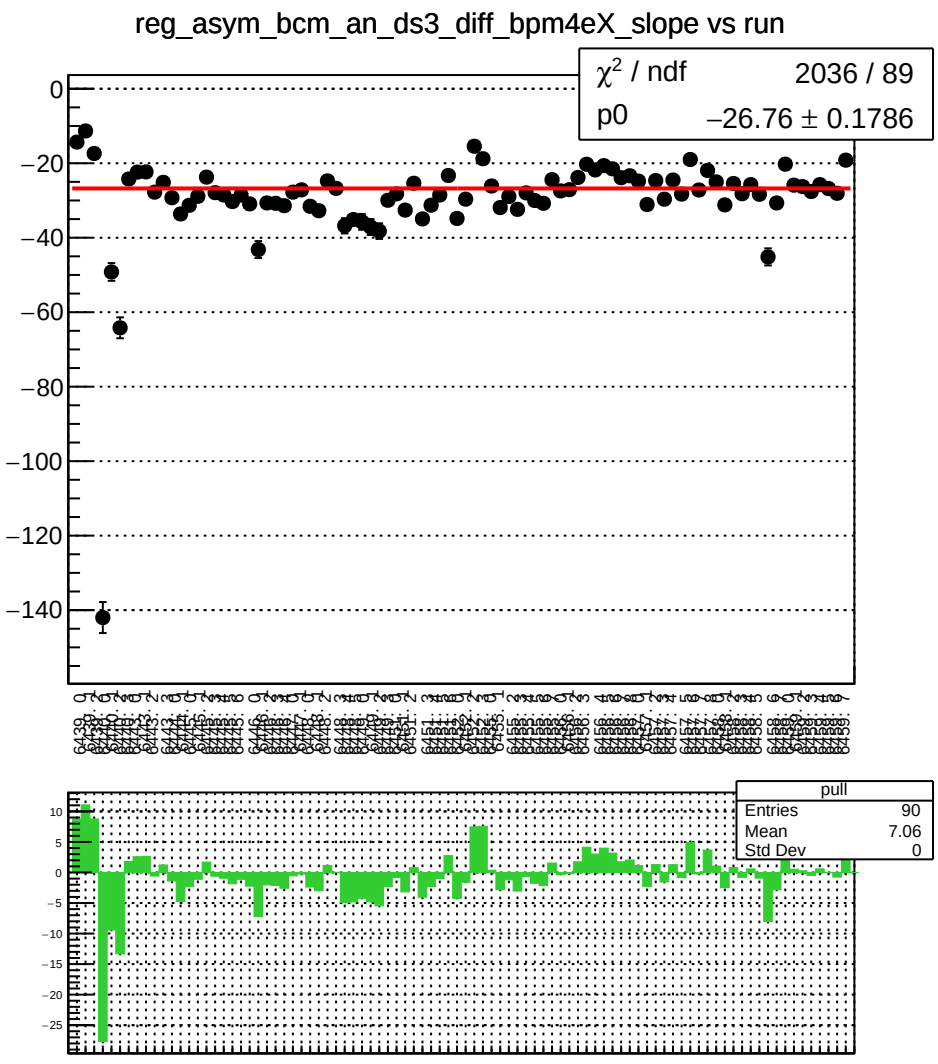

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 71.71 / 89
p0 −49.95 ± 1.082
pull
Entries 90
Mean 158.3
Std Dev 0
pull1D
Entries 90
Mean −0.01986
Std Dev 0.8924

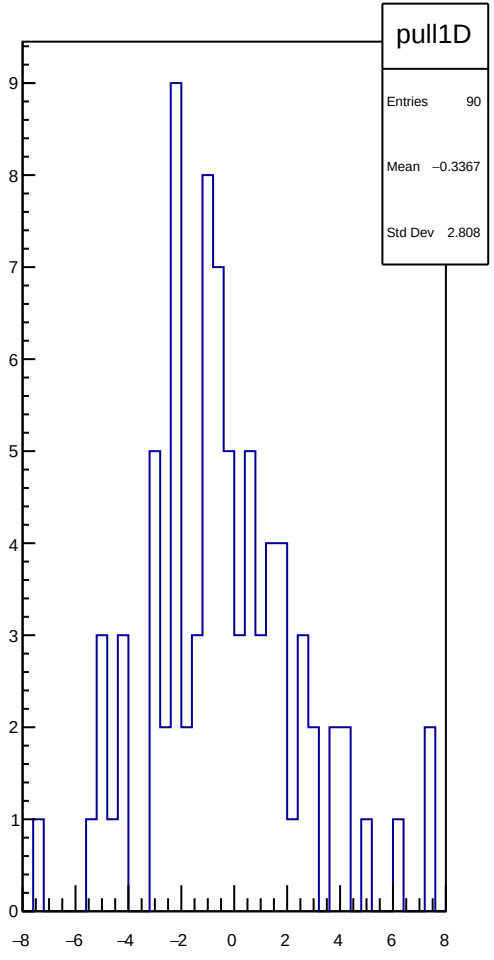

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 98.02 / 89
p0 −12.62 ± 1.255
pull
Entries 90
Mean −168.6
Std Dev 0
pull1D
Entries 90
Mean 0.02598
Std Dev 1.043

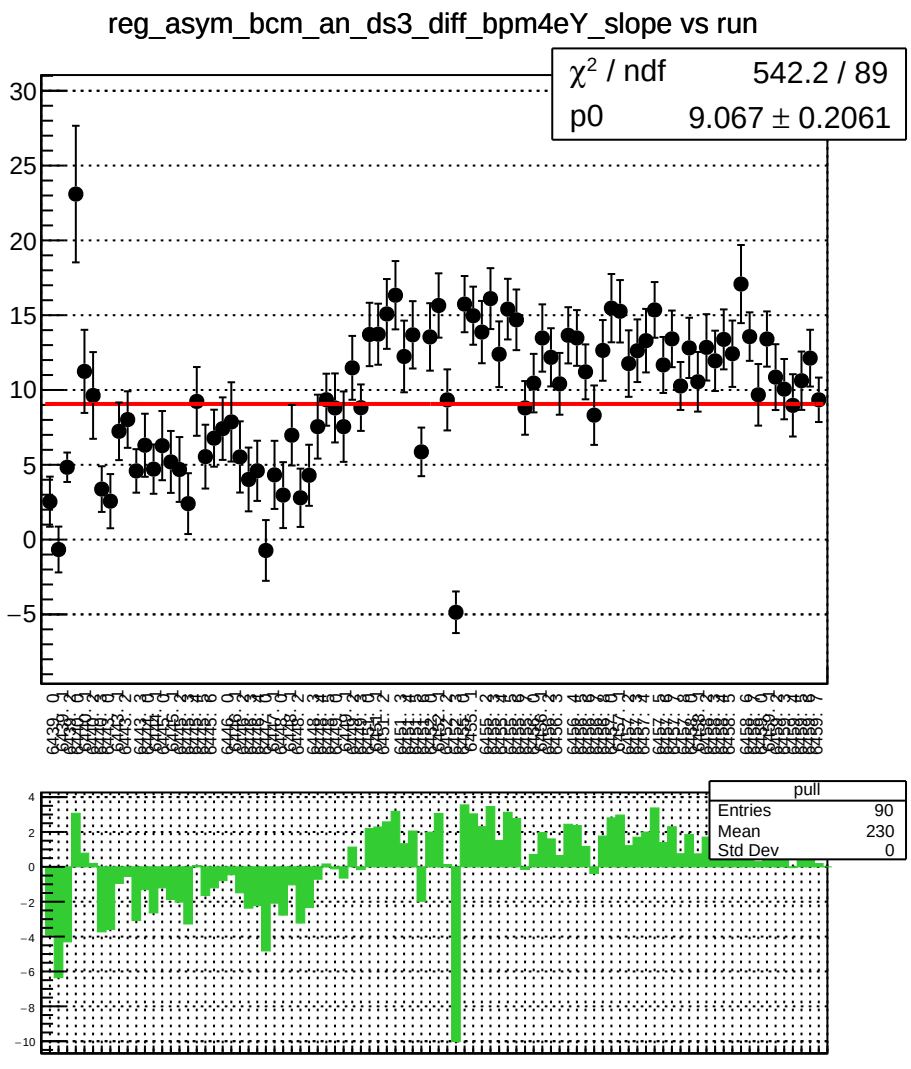

reg_asym_us_dd_atlr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 72.65 / 89
p0 5.36 ± 0.05092
pull
Entries 90
Mean 489.5
Std Dev 0
pull1D
Entries 90
Mean 0.01917
Std Dev 0.8982

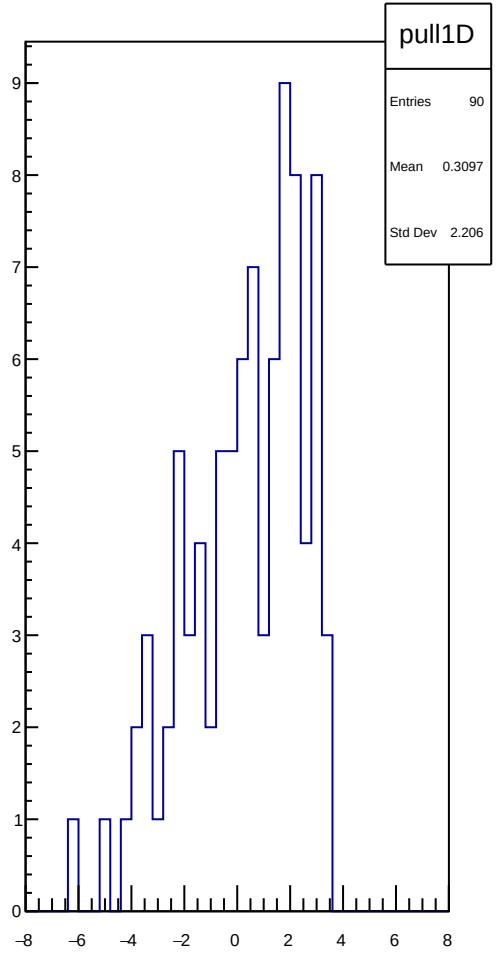

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 2034 / 89
p0 26.38 ± 0.177
pull
Entries 90
Mean 15.38
Std Dev 0
pull1D
Entries 90
Mean 0.342
Std Dev 2.714

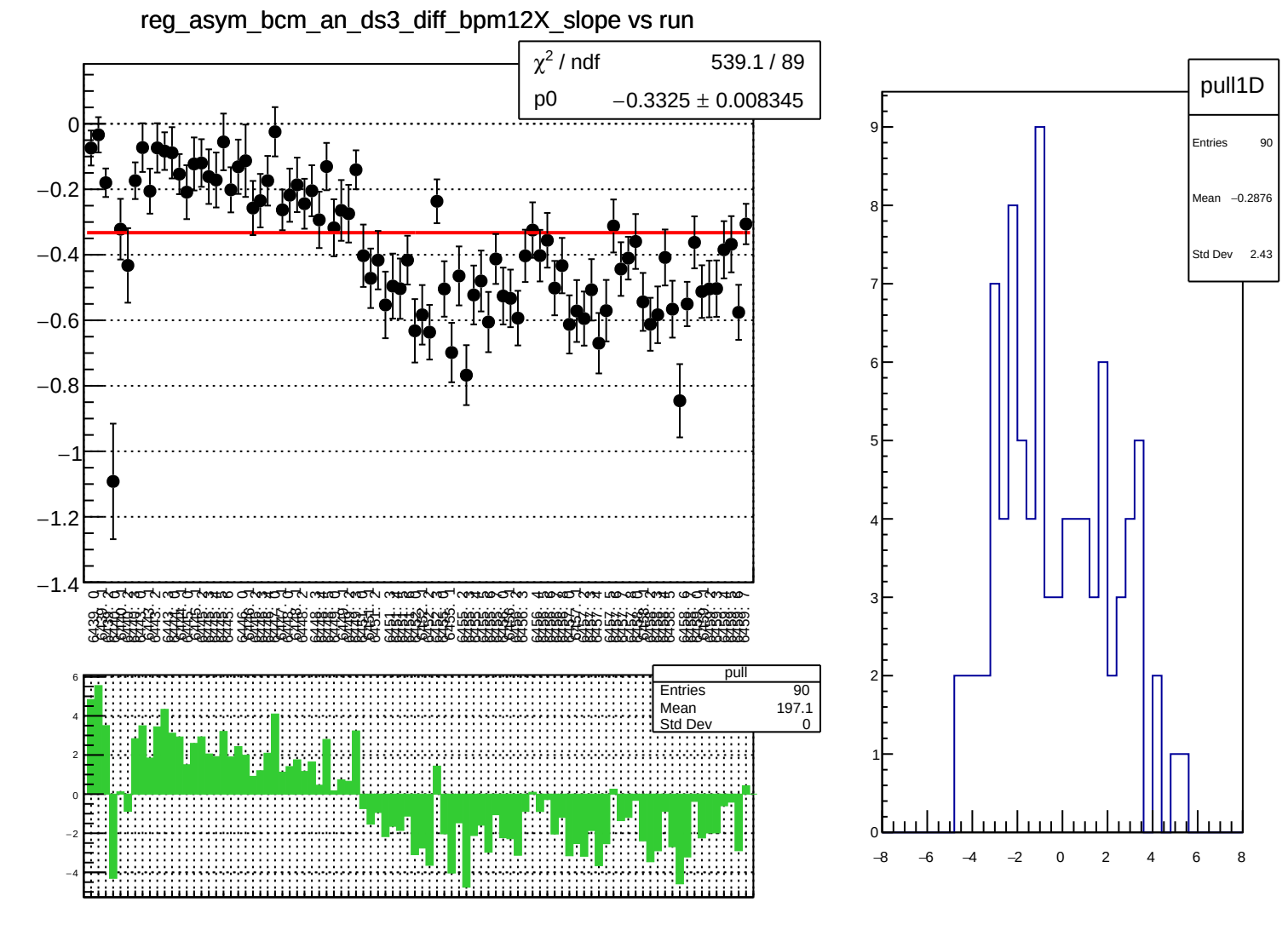

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 353.2 / 89
p0 −6.45 ± 0.2057
pull
Entries 90
Mean 191.7
Std Dev 0
pull1D
Entries 90
Mean −0.2522
Std Dev 1.72

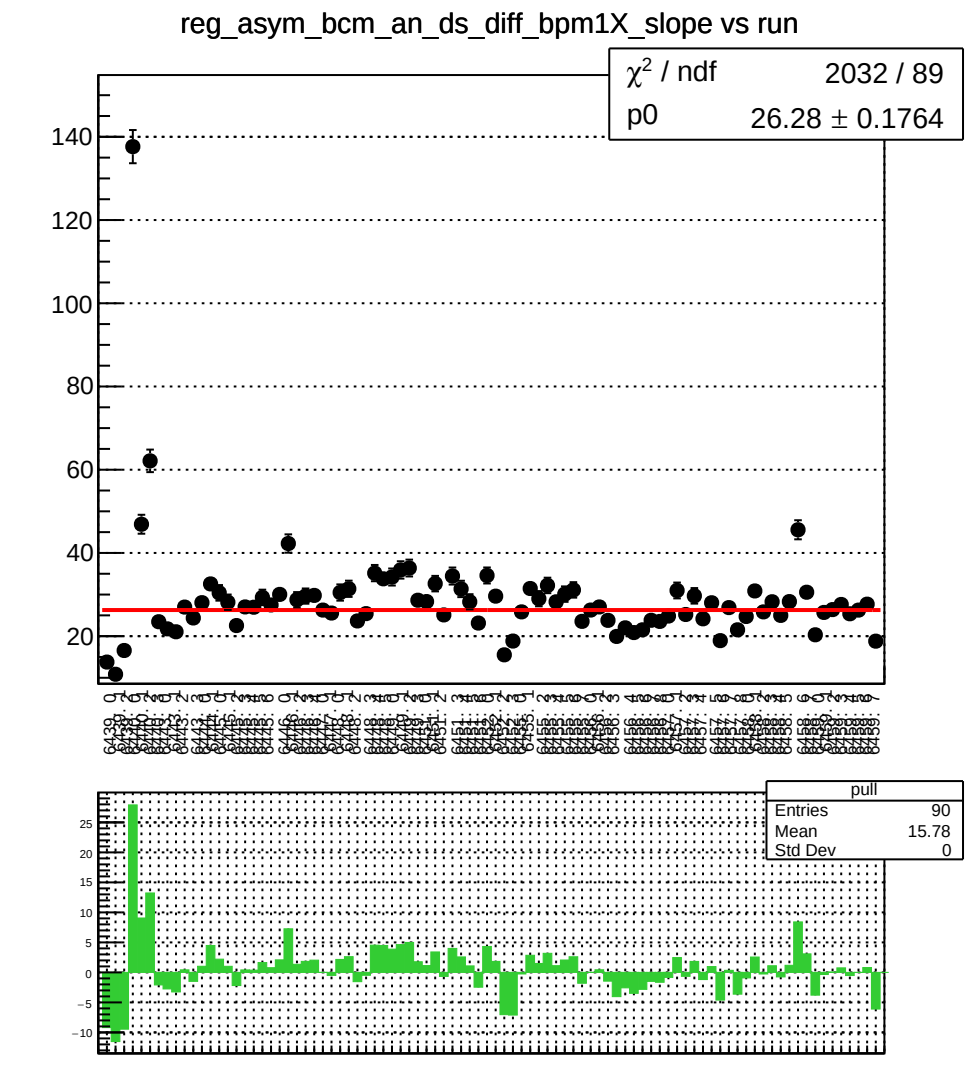

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 2036 / 89
p0 −26.76 ± 0.1786
pull
Entries 90
Mean 7.06
Std Dev 0

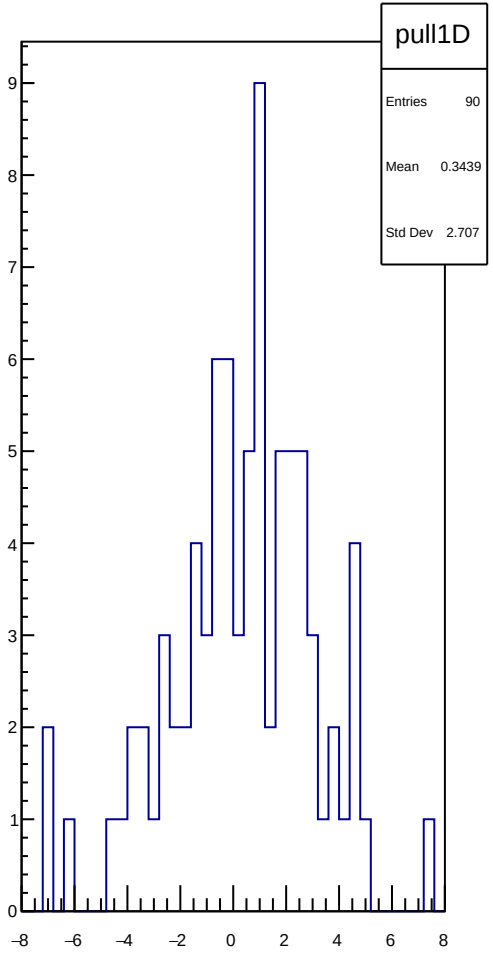

pull1D
Entries 90
Mean −0.3367
Std Dev 2.808

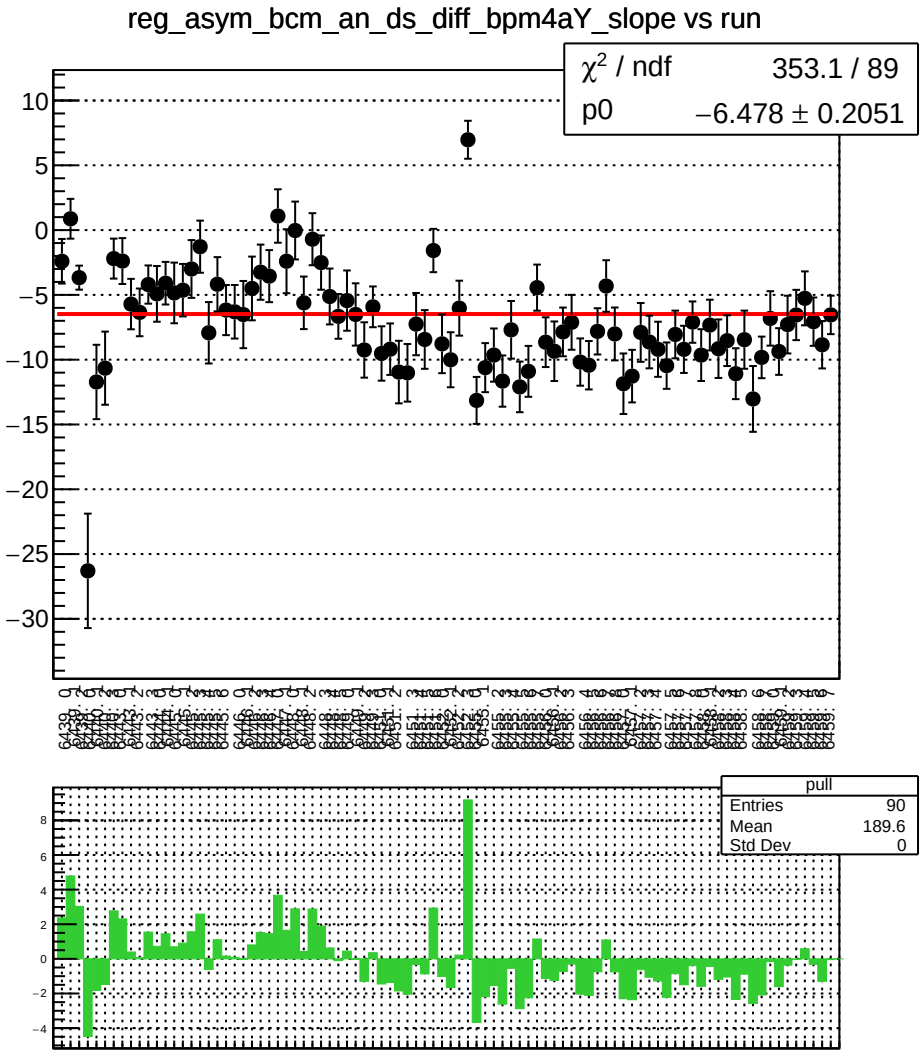

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 542.2 / 89
p0 9.067 ± 0.2061
pull
Entries 90
Mean 230
Std Dev 0

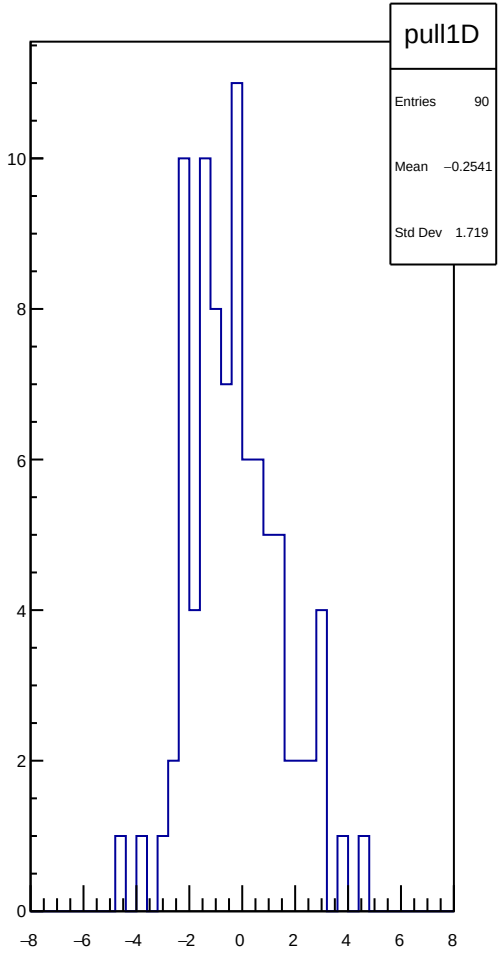

pull1D
Entries 90
Mean 0.3097
Std Dev 2.206

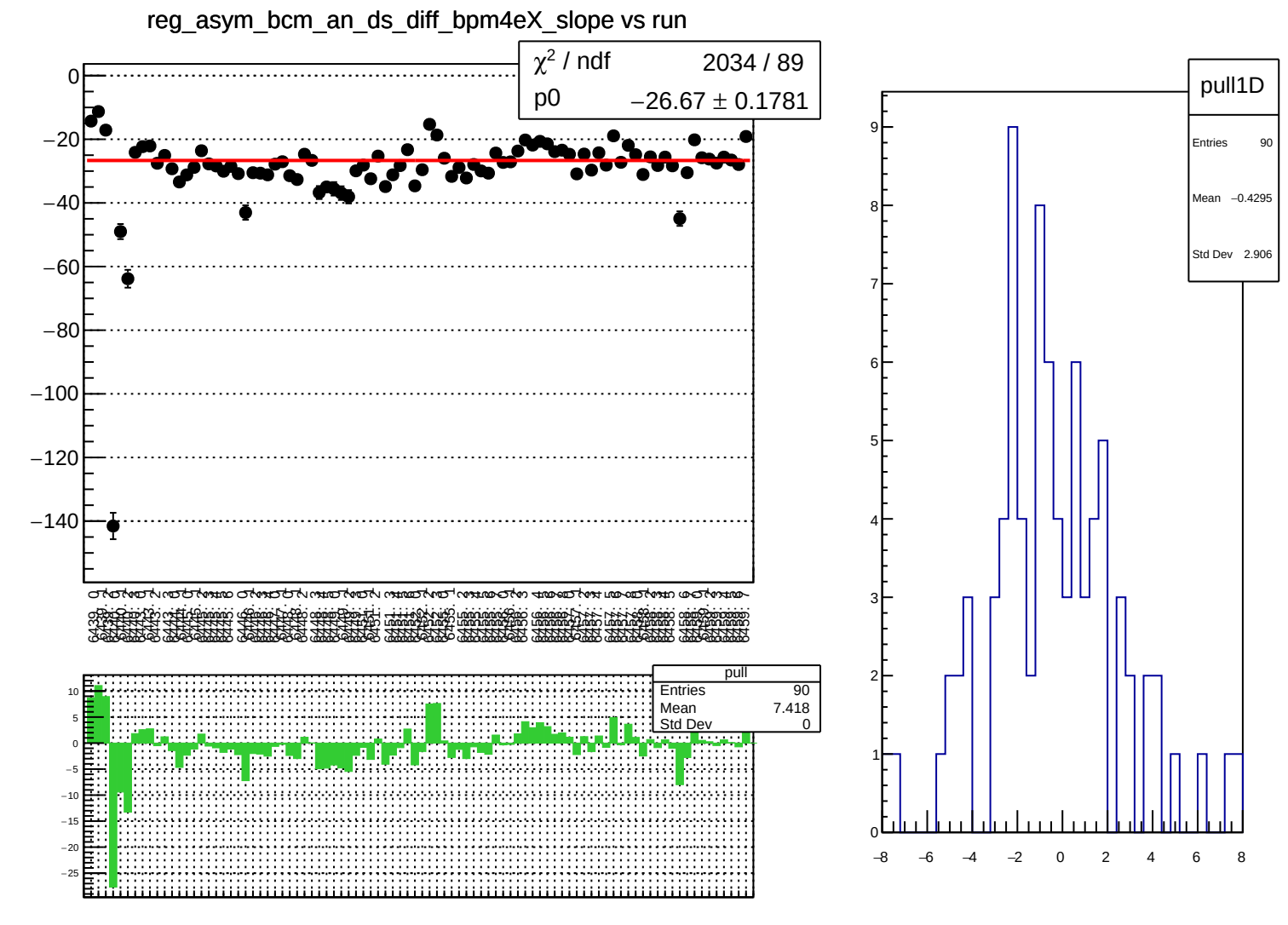

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 539.1 / 89
p0 −0.3325 ± 0.008345
pull
Entries 90
Mean 197.1
Std Dev 0
pull1D
Entries 90
Mean −0.2876
Std Dev 2.43

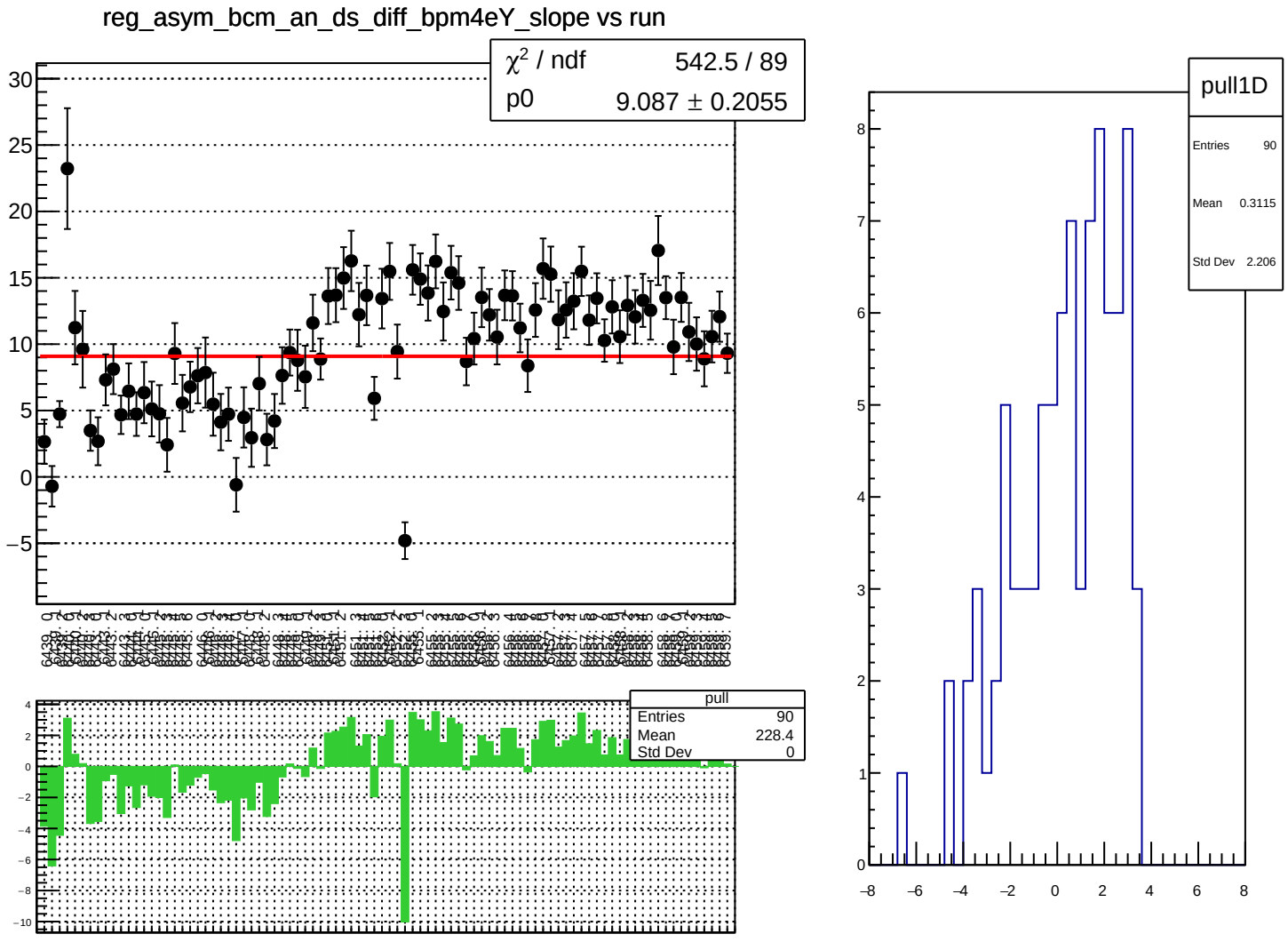

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 2032 / 89
p0 26.28 ± 0.1764
pull
Entries 90
Mean 15.78
Std Dev 0

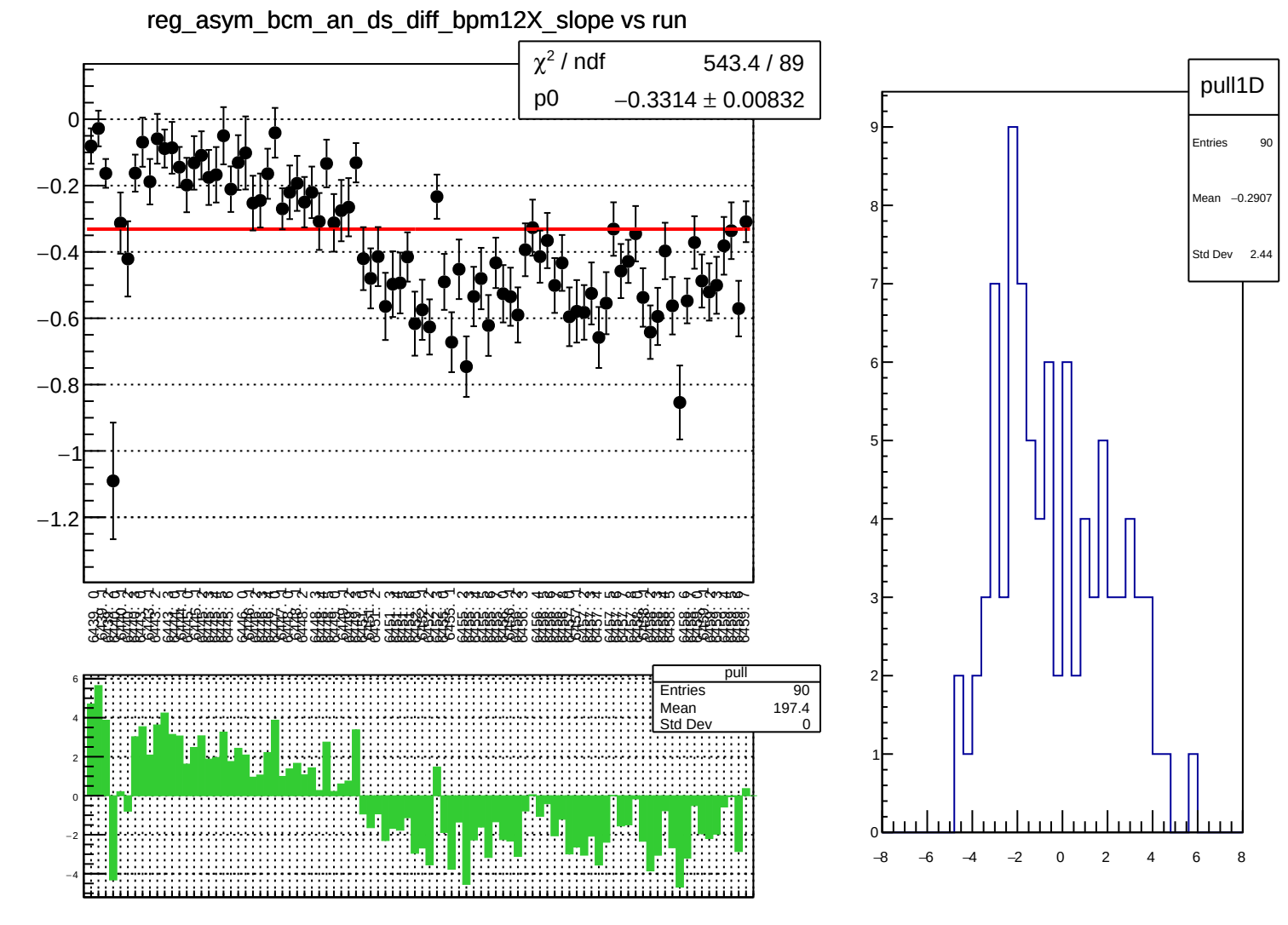

pull1D
Entries 90
Mean 0.3439
Std Dev 2.707

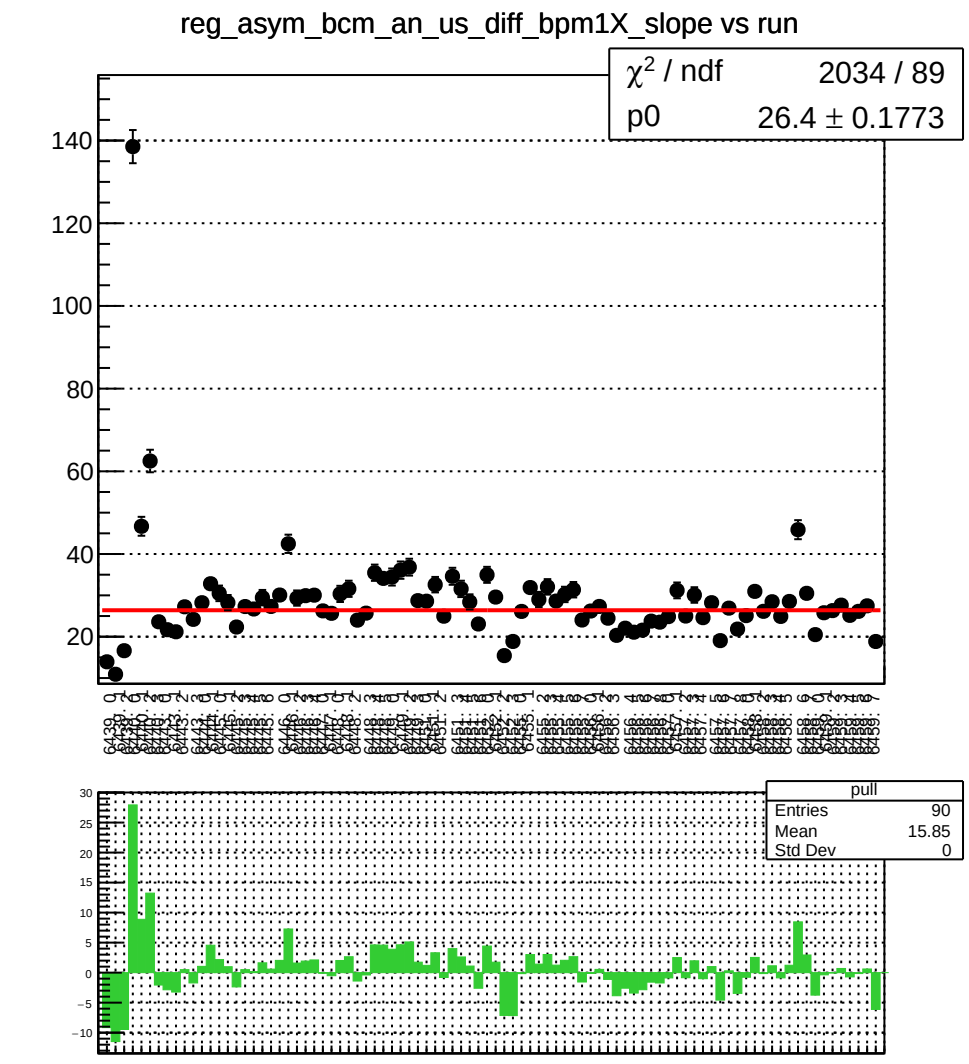

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 353.1 / 89
p0 −6.478 ± 0.2051
pull
Entries 90
Mean 189.6
Std Dev 0

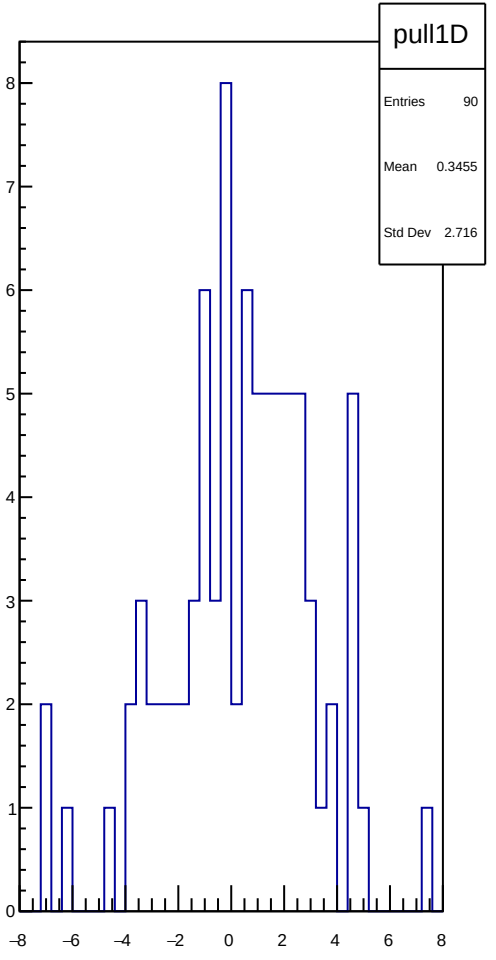

pull1D
Entries 90
Mean −0.2541
Std Dev 1.719

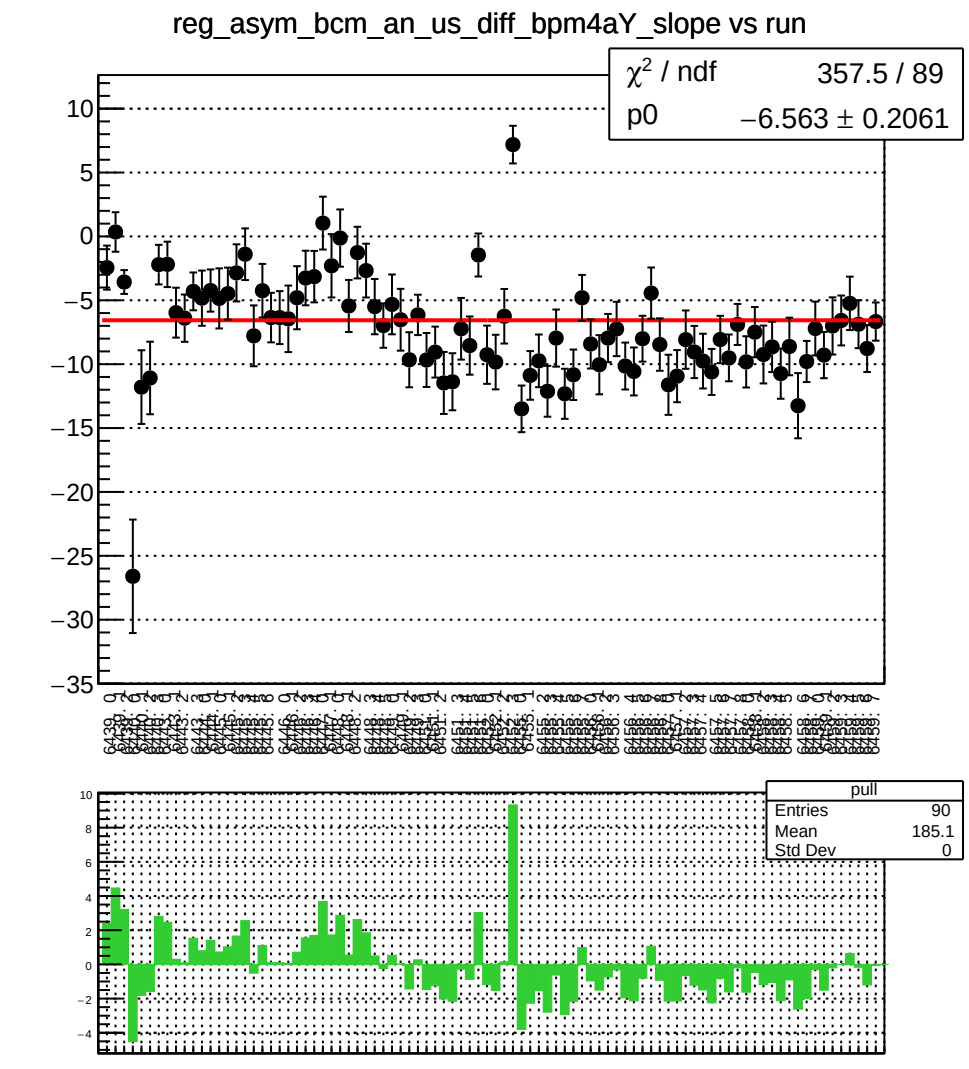

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 2034 / 89
p0 −26.67 ± 0.1781
pull
Entries 90
Mean 7.418
Std Dev 0
pull1D
Entries 90
Mean −0.4295
Std Dev 2.906

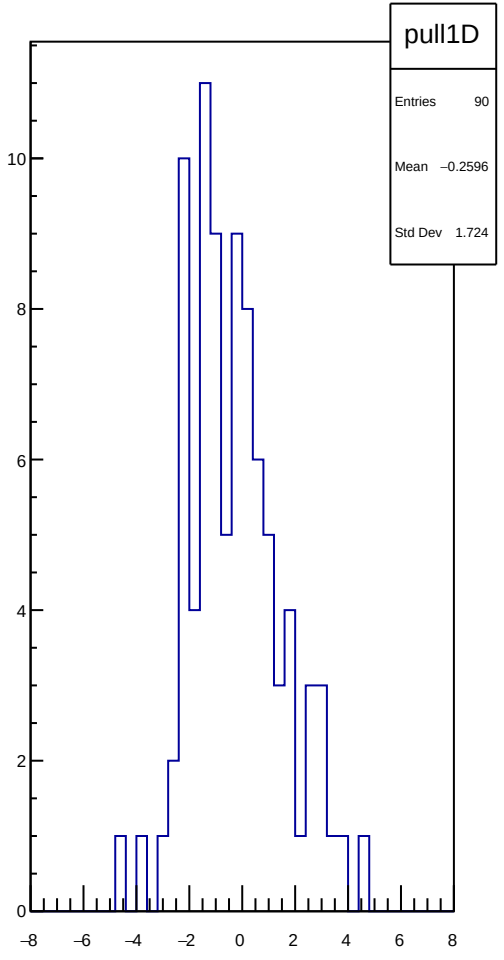

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 542.5 / 89
p0 9.087 ± 0.2055
pull
Entries 90
Mean 228.4
Std Dev 0
pull1D
Entries 90
Mean 0.3115
Std Dev 2.206

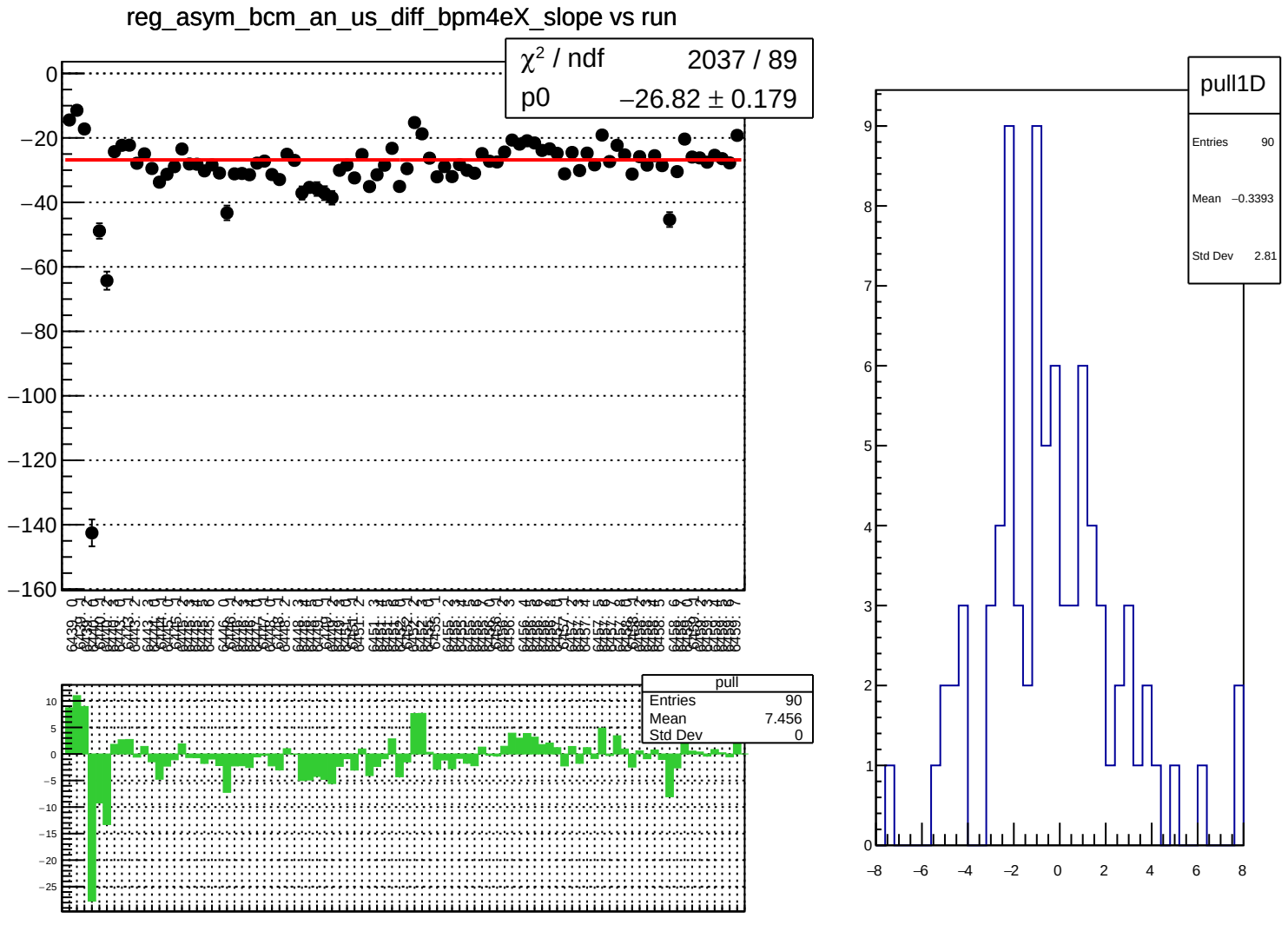

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 543.4 / 89
p0 −0.3314 ± 0.00832
pull
Entries 90
Mean 197.4
Std Dev 0
pull1D
Entries 90
Mean −0.2907
Std Dev 2.44

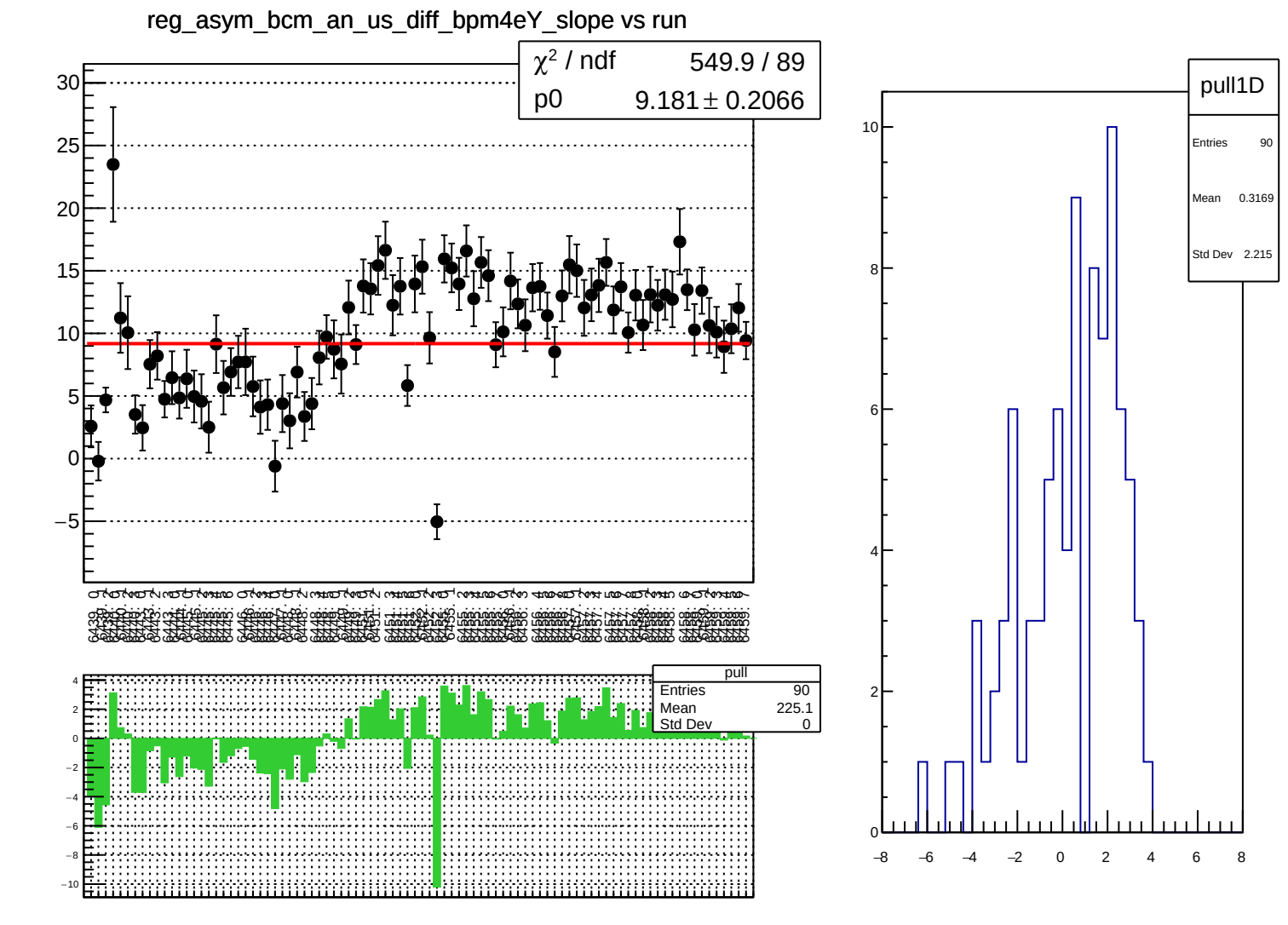

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 2034 / 89
p0 26.4 ± 0.1773
pull
Entries 90
Mean 15.85
Std Dev 0

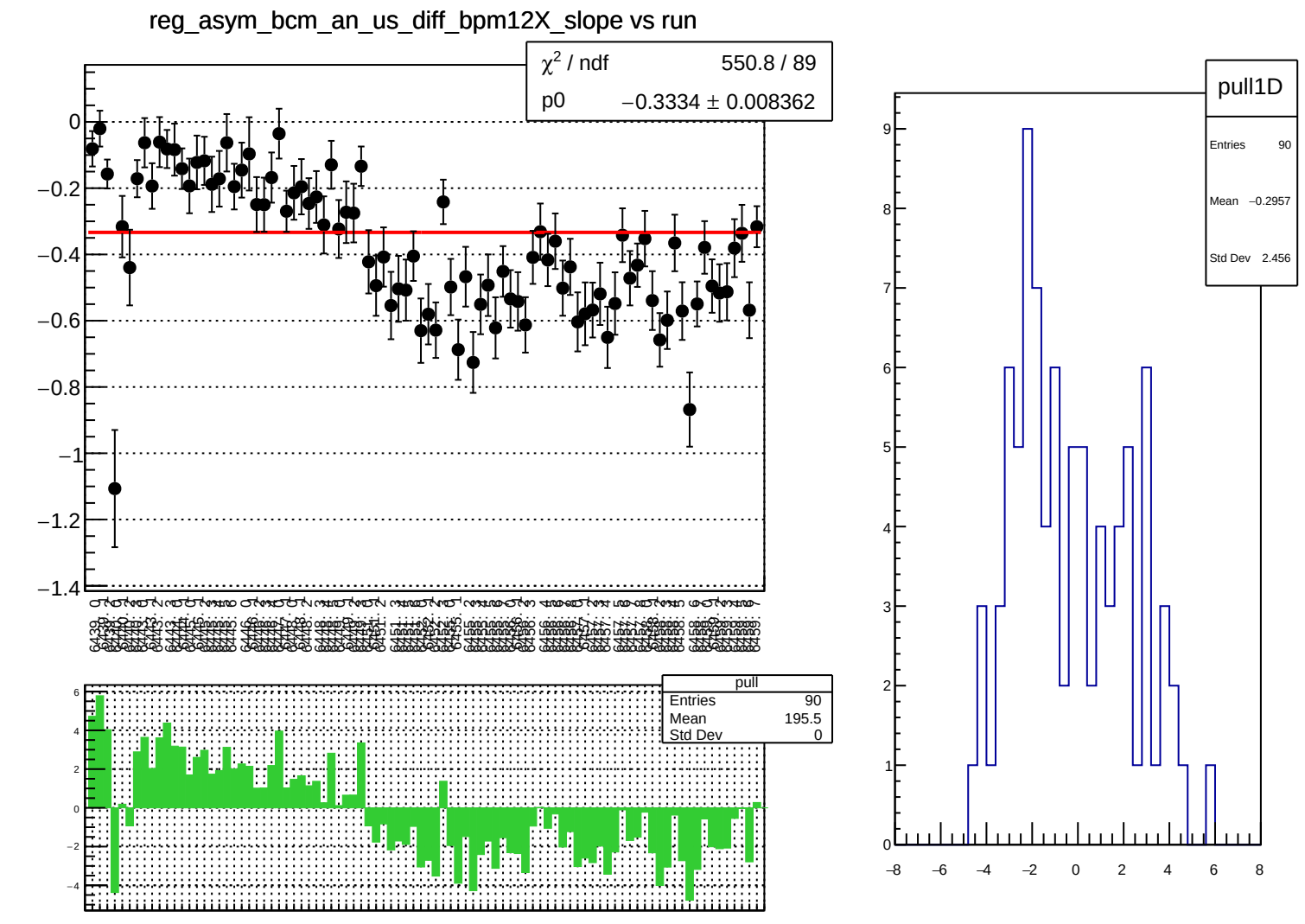

pull1D
Entries 90
Mean 0.3455
Std Dev 2.716

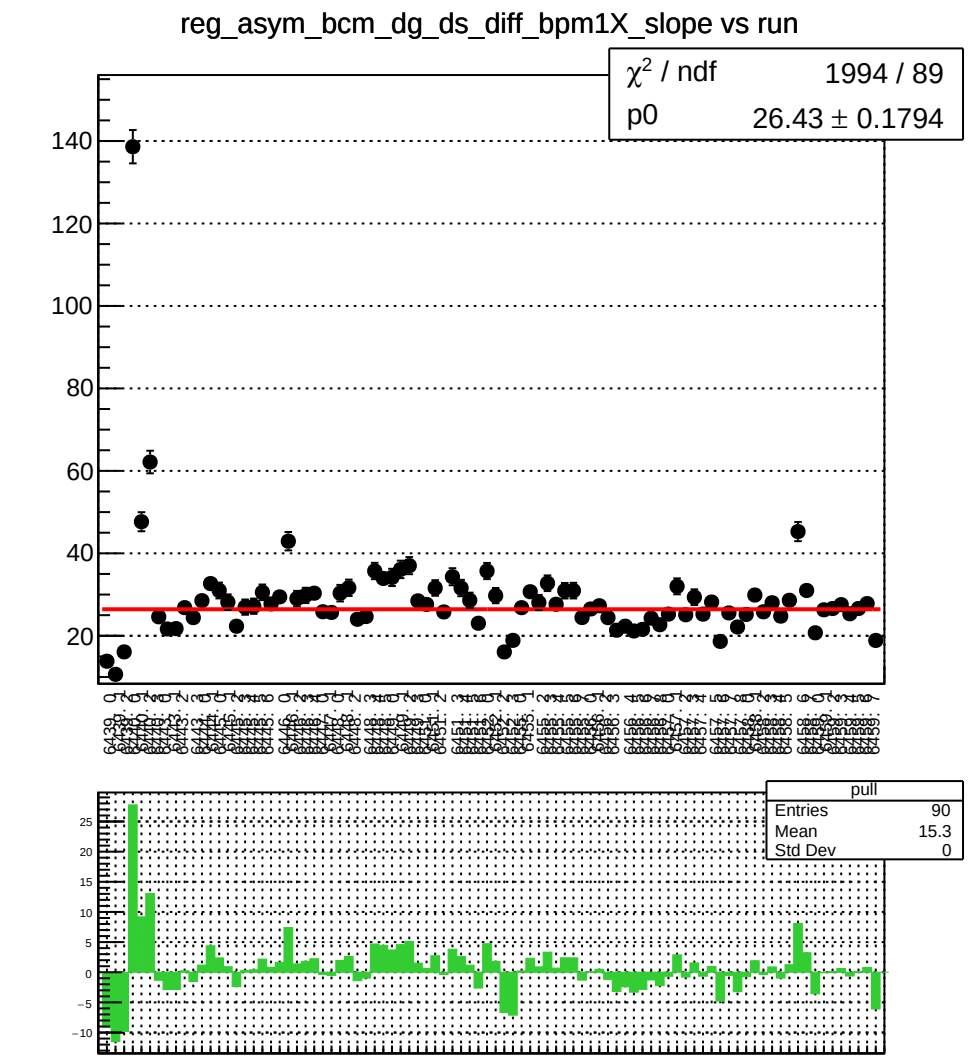

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 357.5 / 89
p0 −6.563 ± 0.2061
pull
Entries 90
Mean 185.1
Std Dev 0

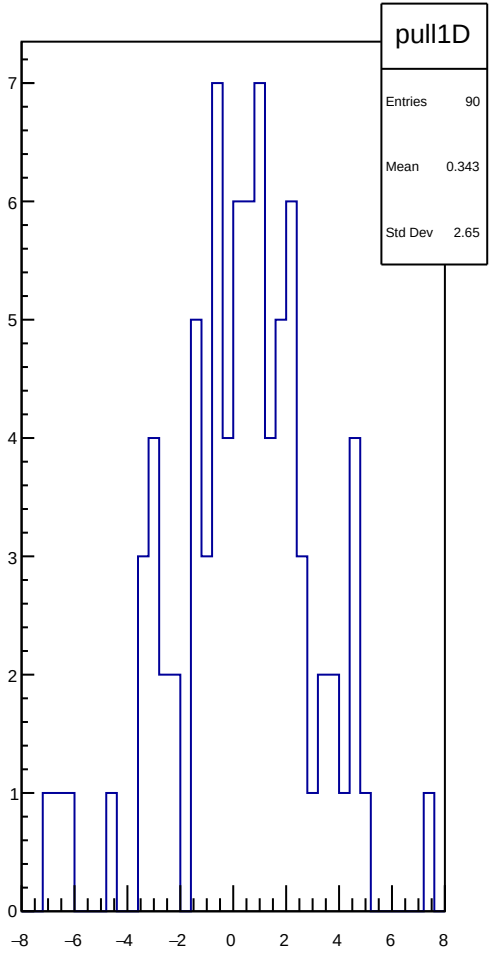

pull1D
Entries 90
Mean −0.2596
Std Dev 1.724

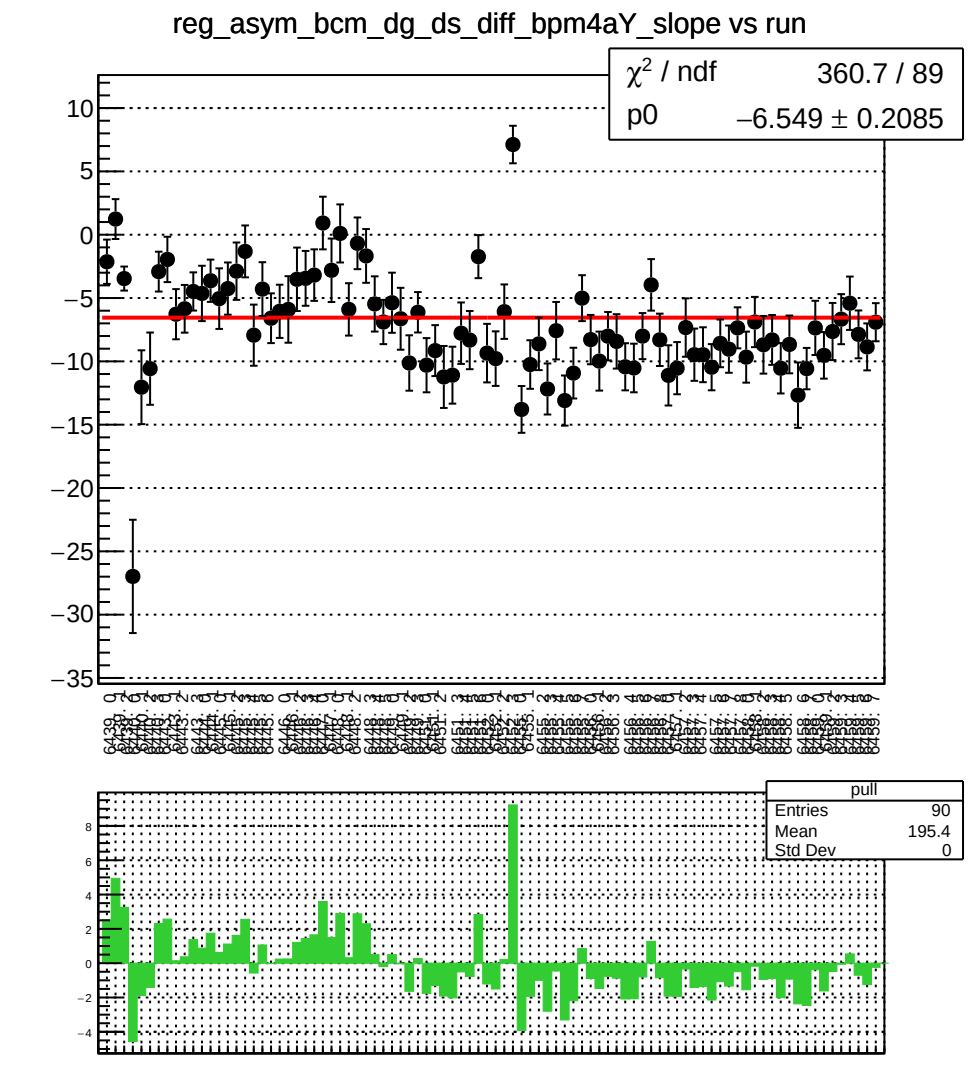

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 2037 / 89
p0 −26.82 ± 0.179
pull
Entries 90
Mean 7.456
Std Dev 0
pull1D
Entries 90
Mean −0.3393
Std Dev 2.81

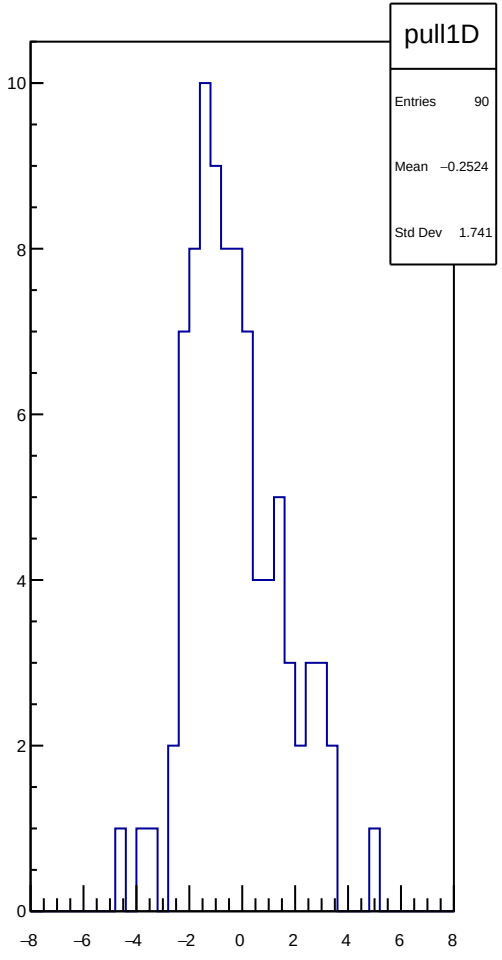

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 549.9 / 89
p0 9.181 ± 0.2066
pull
Entries 90
Mean 225.1
Std Dev 0
pull1D
Entries 90
Mean 0.3169
Std Dev 2.215

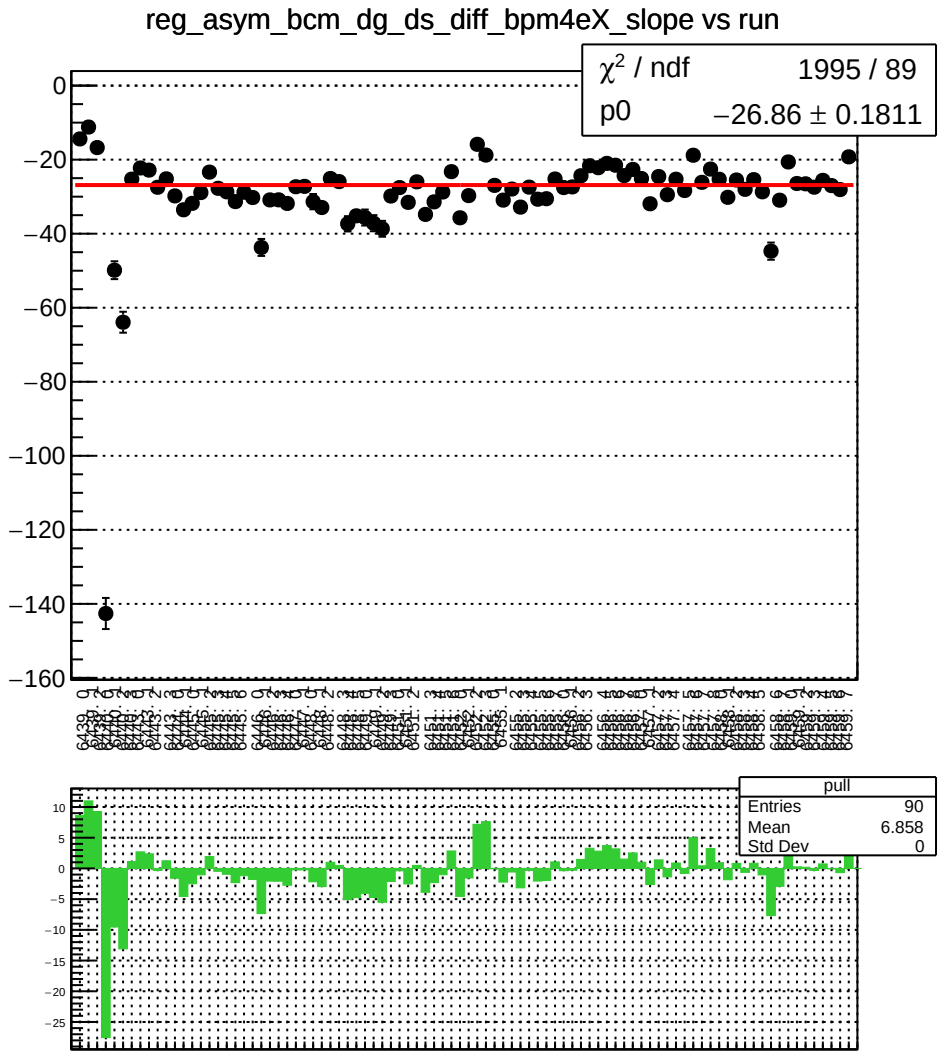

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 550.8 / 89
p0 −0.3334 ± 0.008362
pull
Entries 90
Mean 195.5
Std Dev 0
pull1D
Entries 90
Mean −0.2957
Std Dev 2.456

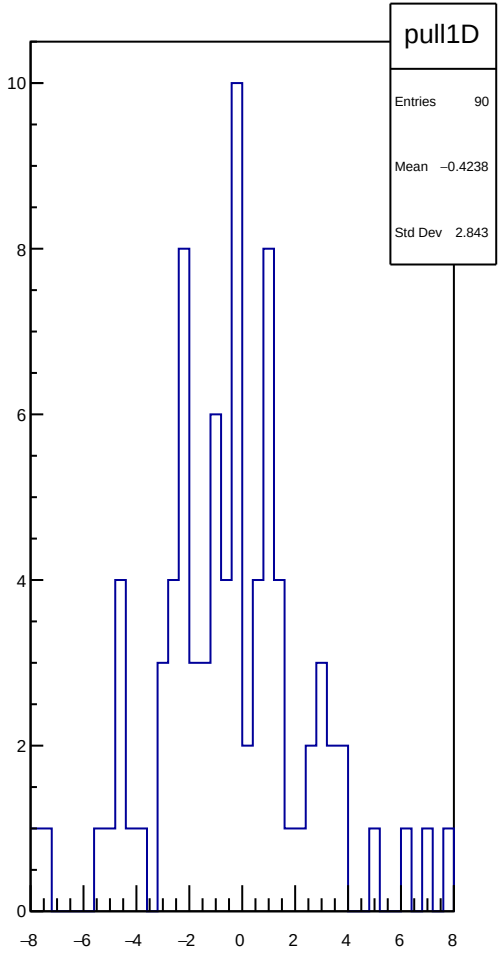

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 1994 / 89
p0 26.43 ± 0.1794
pull
Entries 90
Mean 15.3
Std Dev 0

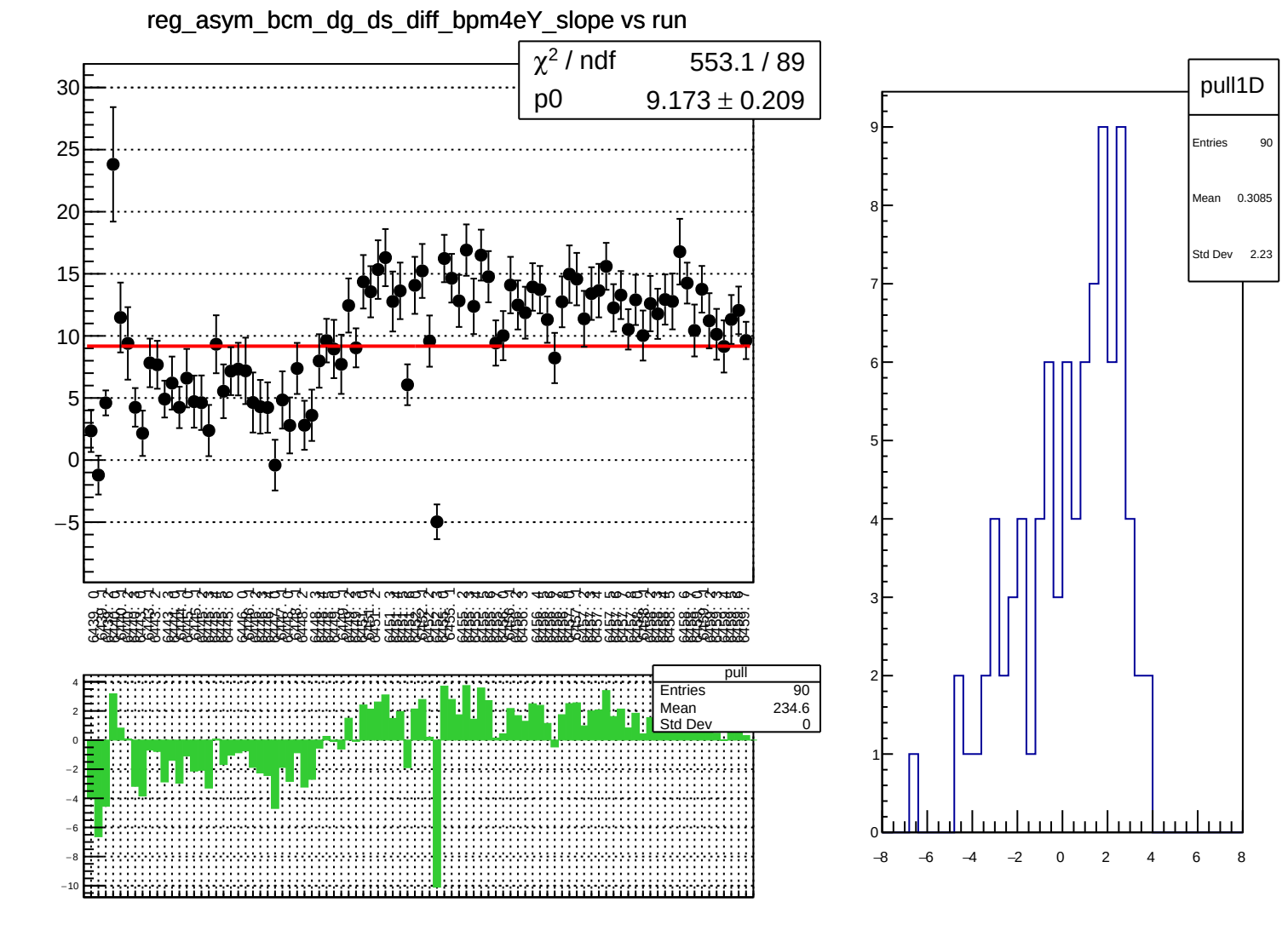

pull1D
Entries 90
Mean 0.343
Std Dev 2.65

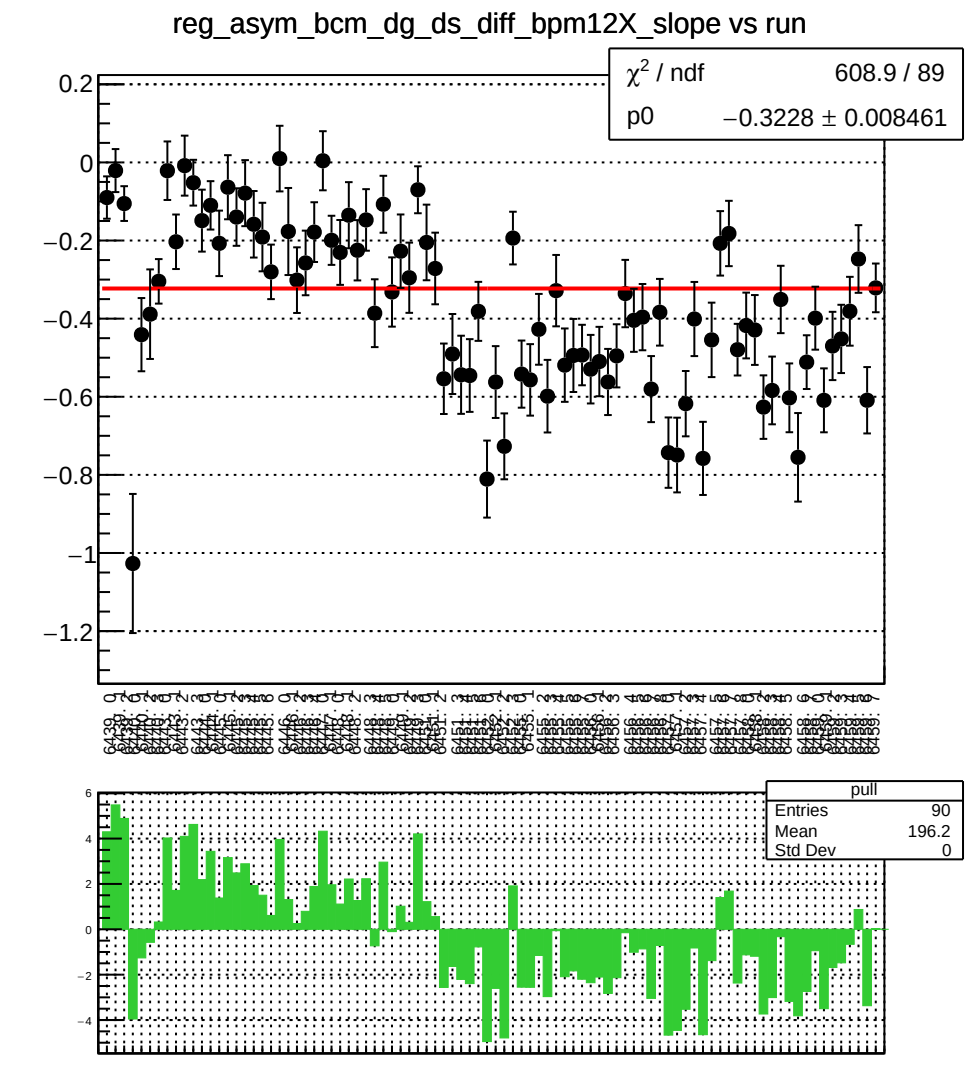

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 360.7 / 89
p0 −6.549 ± 0.2085
pull
Entries 90
Mean 195.4
Std Dev 0

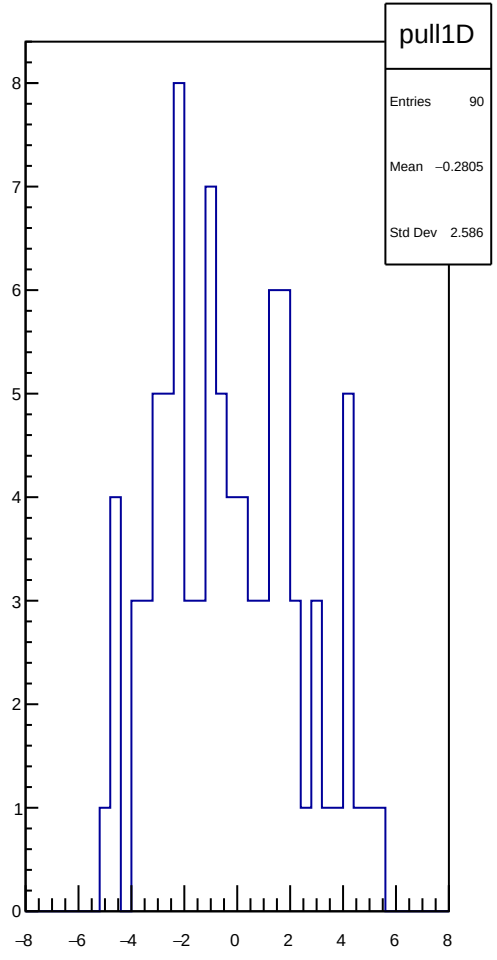

pull1D
Entries 90
Mean −0.2524
Std Dev 1.741

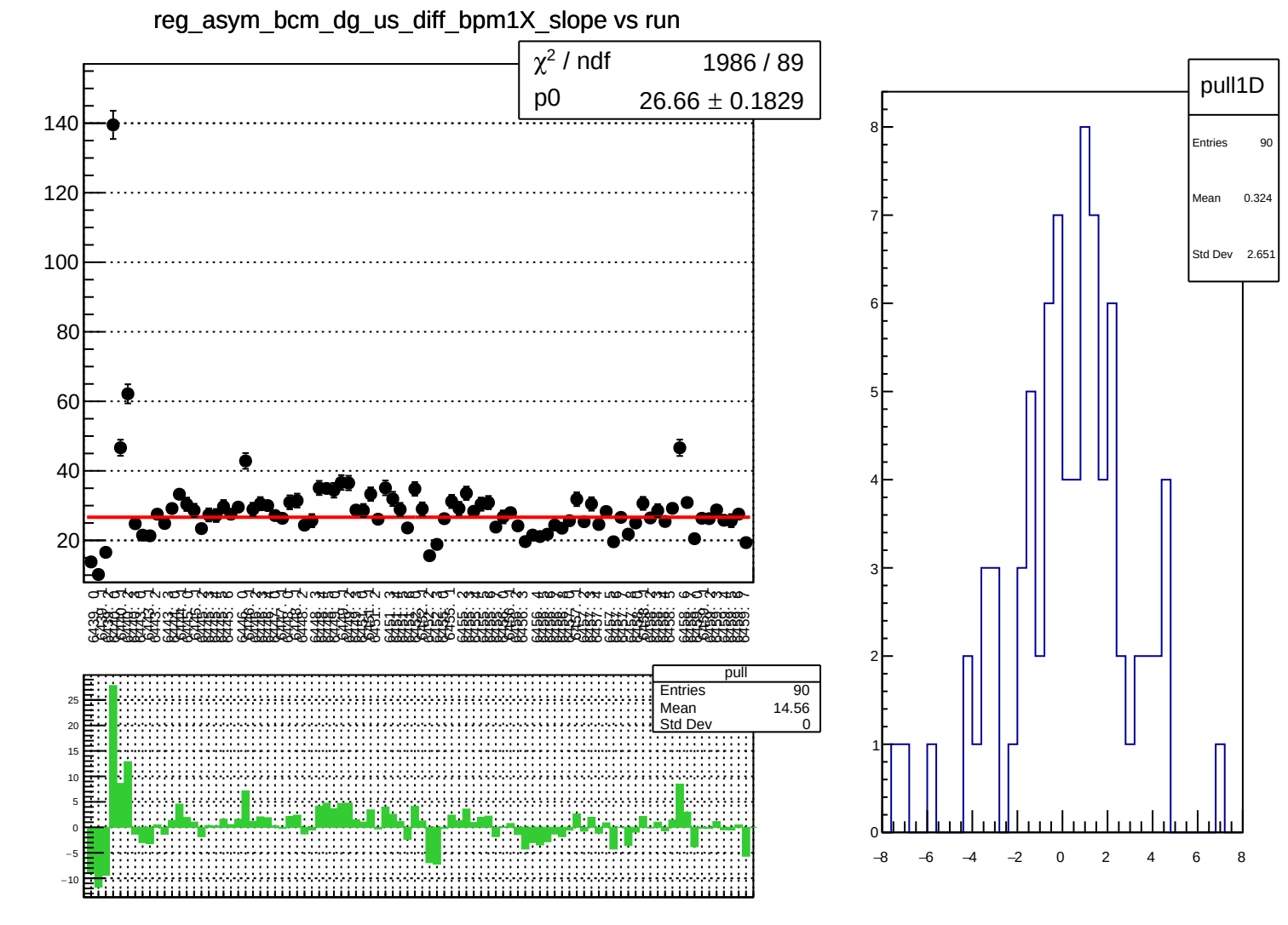

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 1995 / 89
p0 −26.86 ± 0.1811
pull
Entries 90
Mean 6.858
Std Dev 0

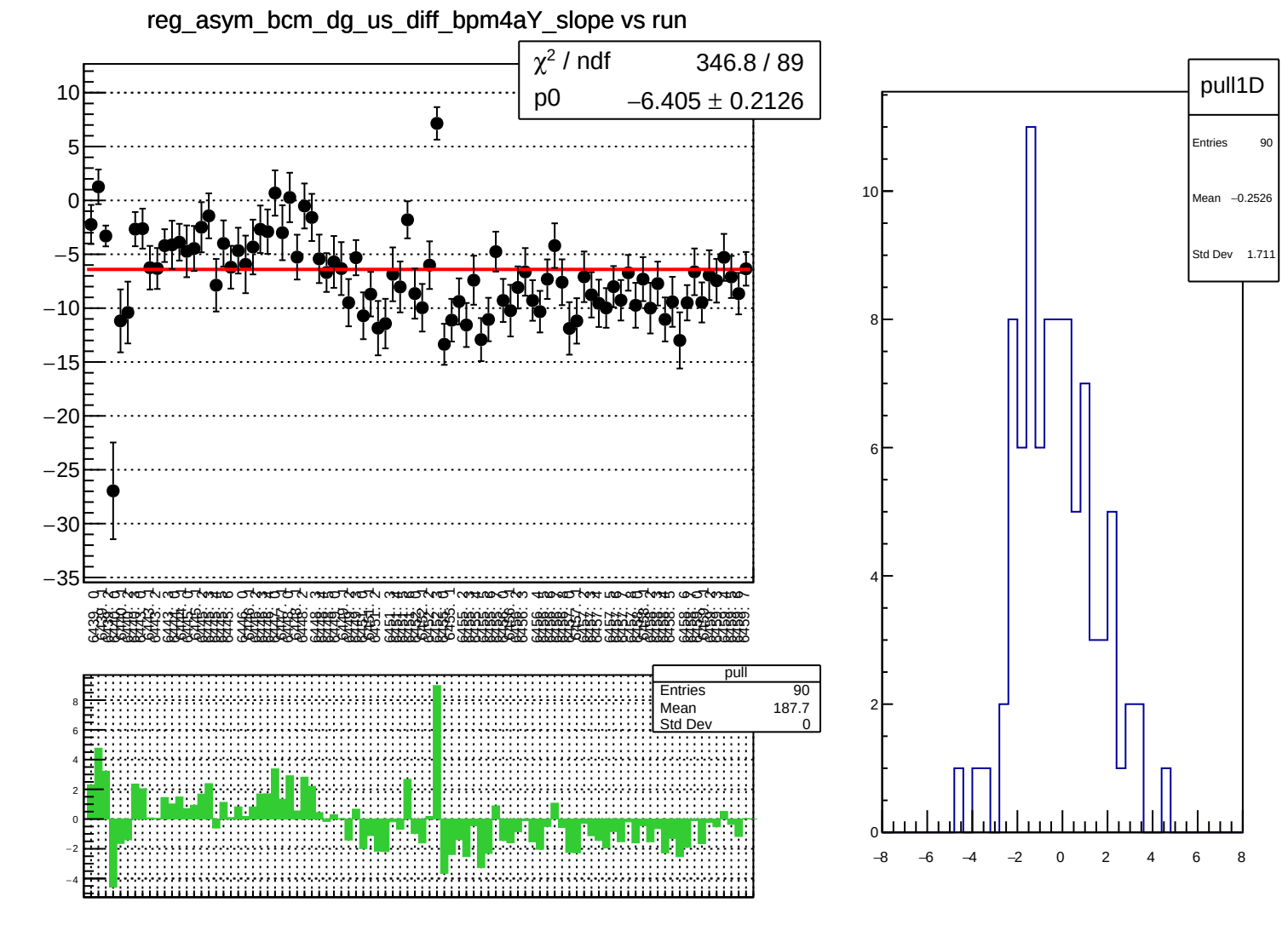

pull1D
Entries 90
Mean −0.4238
Std Dev 2.843

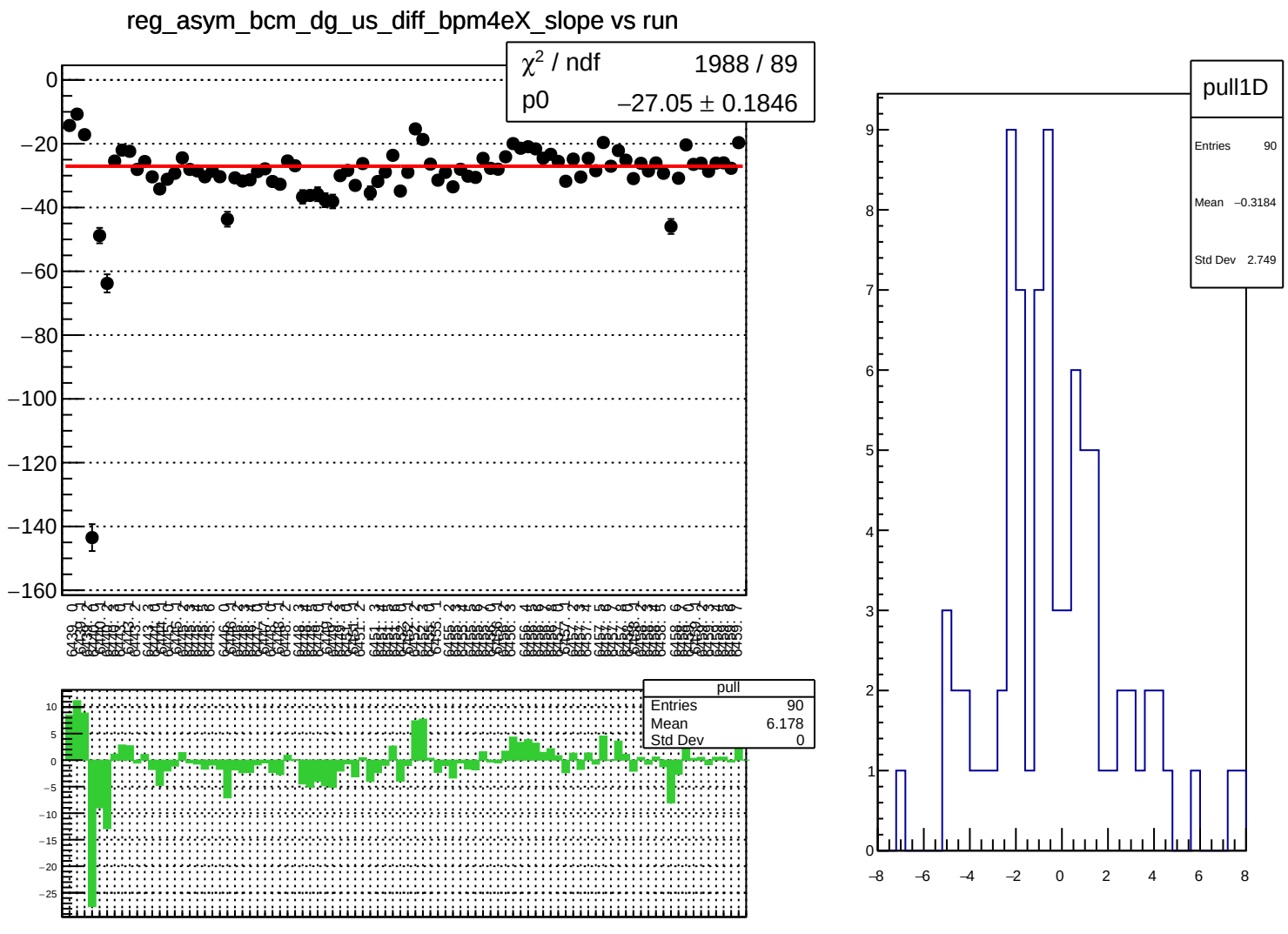

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 553.1 / 89
p0 9.173 ± 0.209
pull
Entries 90
Mean 234.6
Std Dev 0
pull1D
Entries 90
Mean 0.3085
Std Dev 2.23

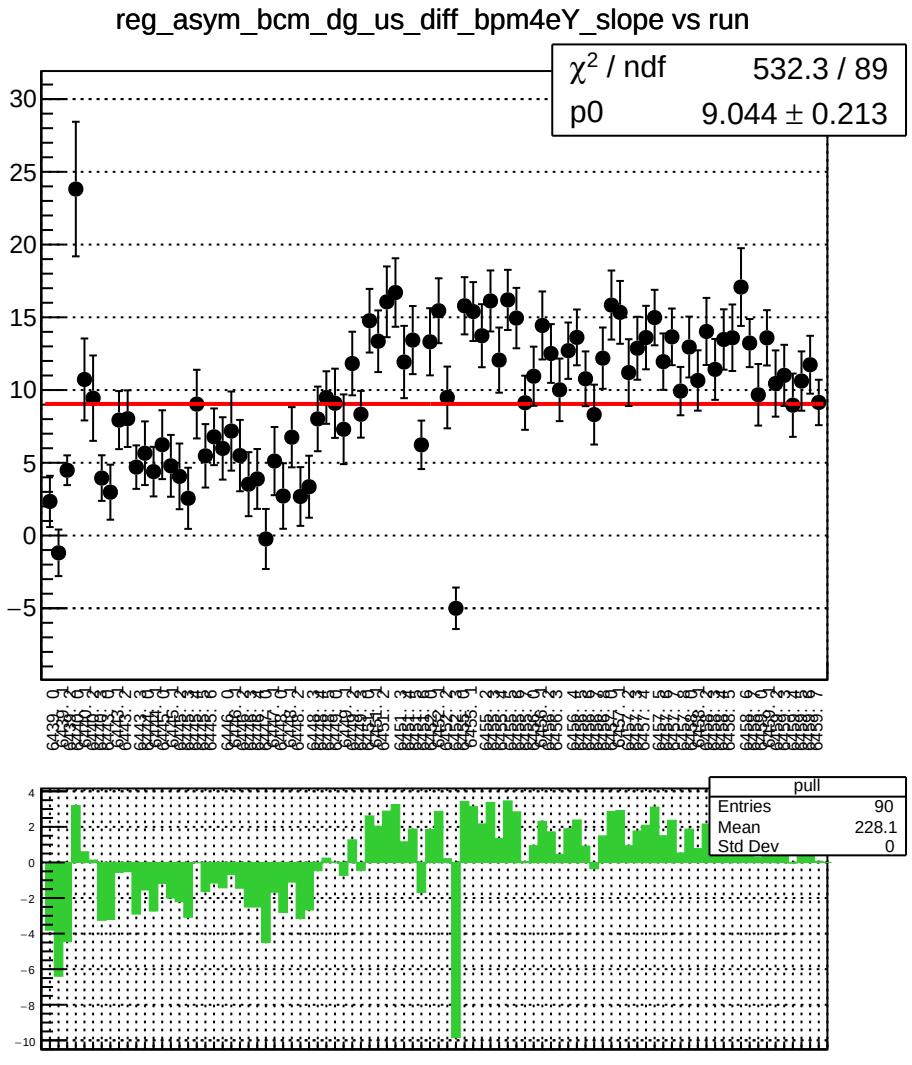

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 608.9 / 89
p0 −0.3228 ± 0.008461
pull
Entries 90
Mean 196.2
Std Dev 0

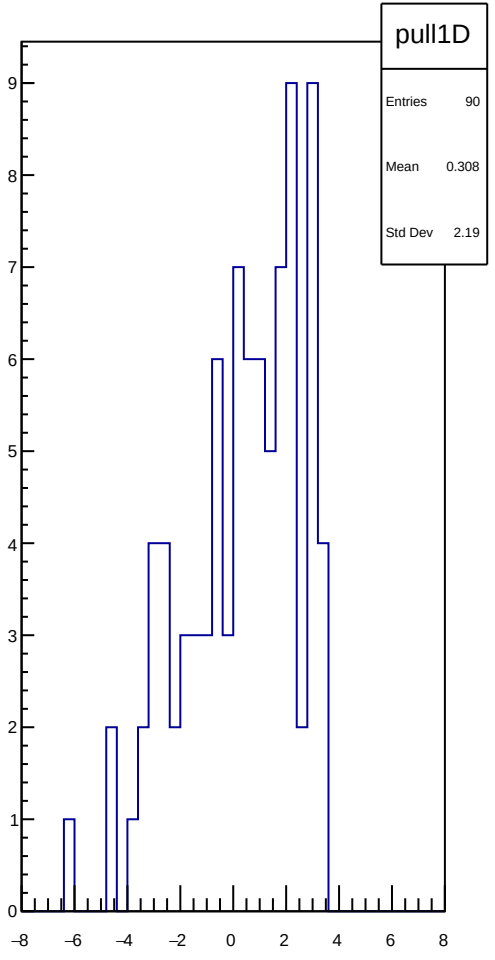

pull1D
Entries 90
Mean −0.2805
Std Dev 2.586

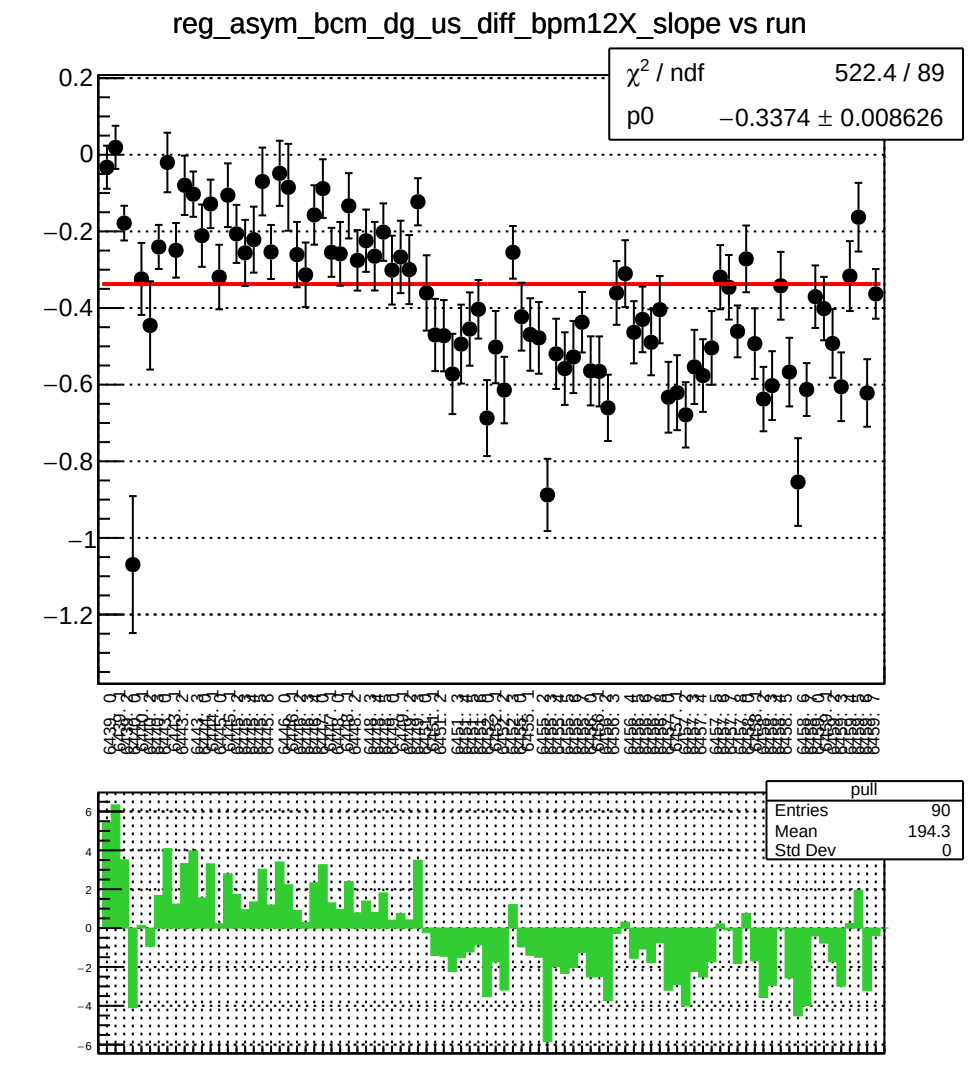

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 1986 / 89
p0 26.66 ± 0.1829
pull
Entries 90
Mean 14.56
Std Dev 0
pull1D
Entries 90
Mean 0.324
Std Dev 2.651

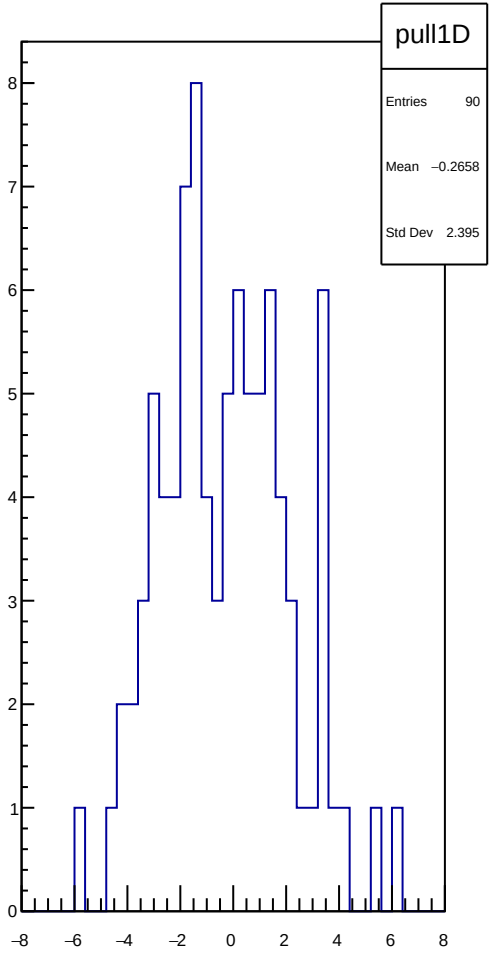

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 346.8 / 89
p0 −6.405 ± 0.2126
pull
Entries 90
Mean 187.7
Std Dev 0
pull1D
Entries 90
Mean −0.2526
Std Dev 1.711

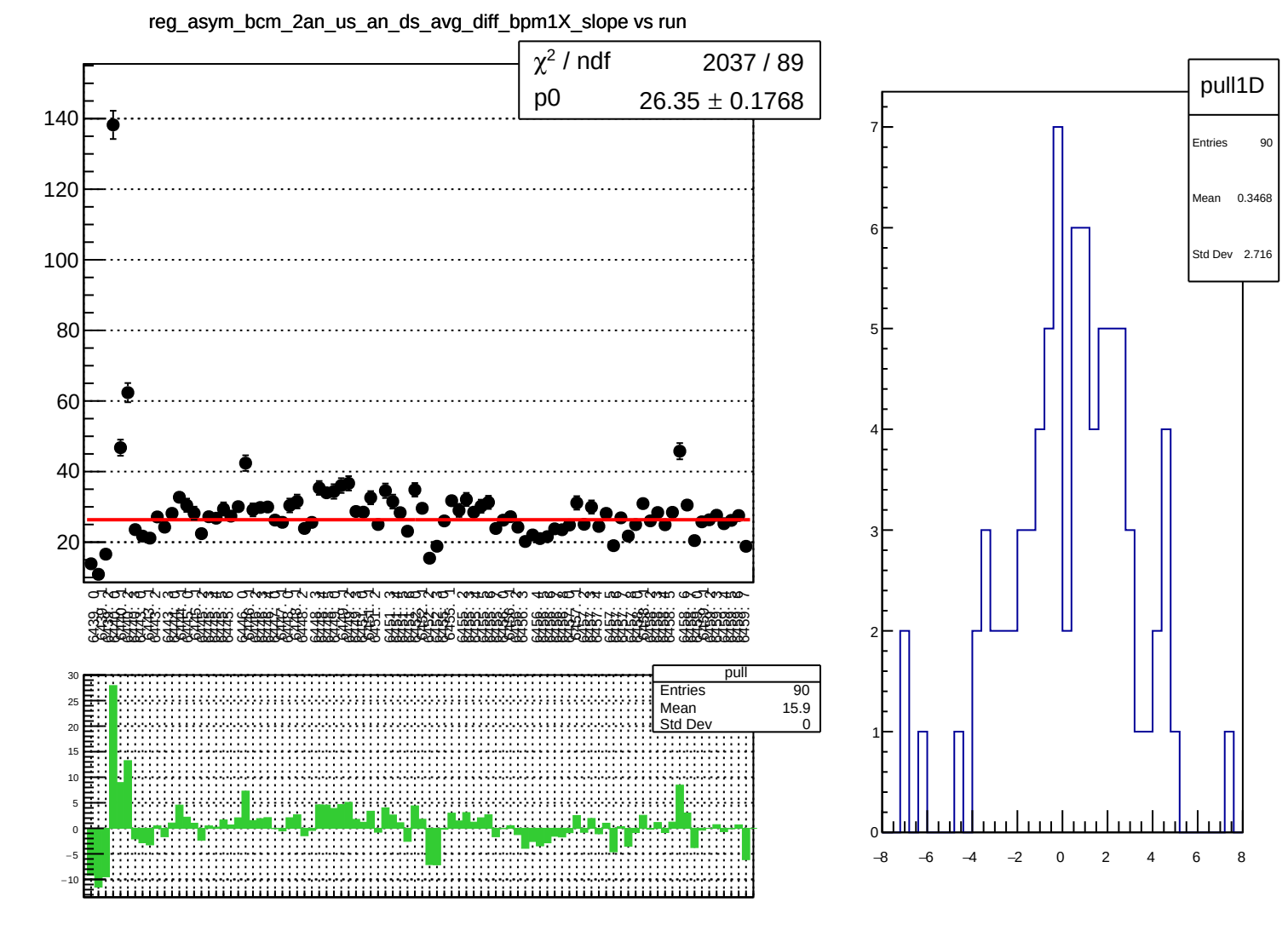

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 1988 / 89
p0 −27.05 ± 0.1846
pull
Entries 90
Mean 6.178
Std Dev 0
pull1D
Entries 90
Mean −0.3184
Std Dev 2.749

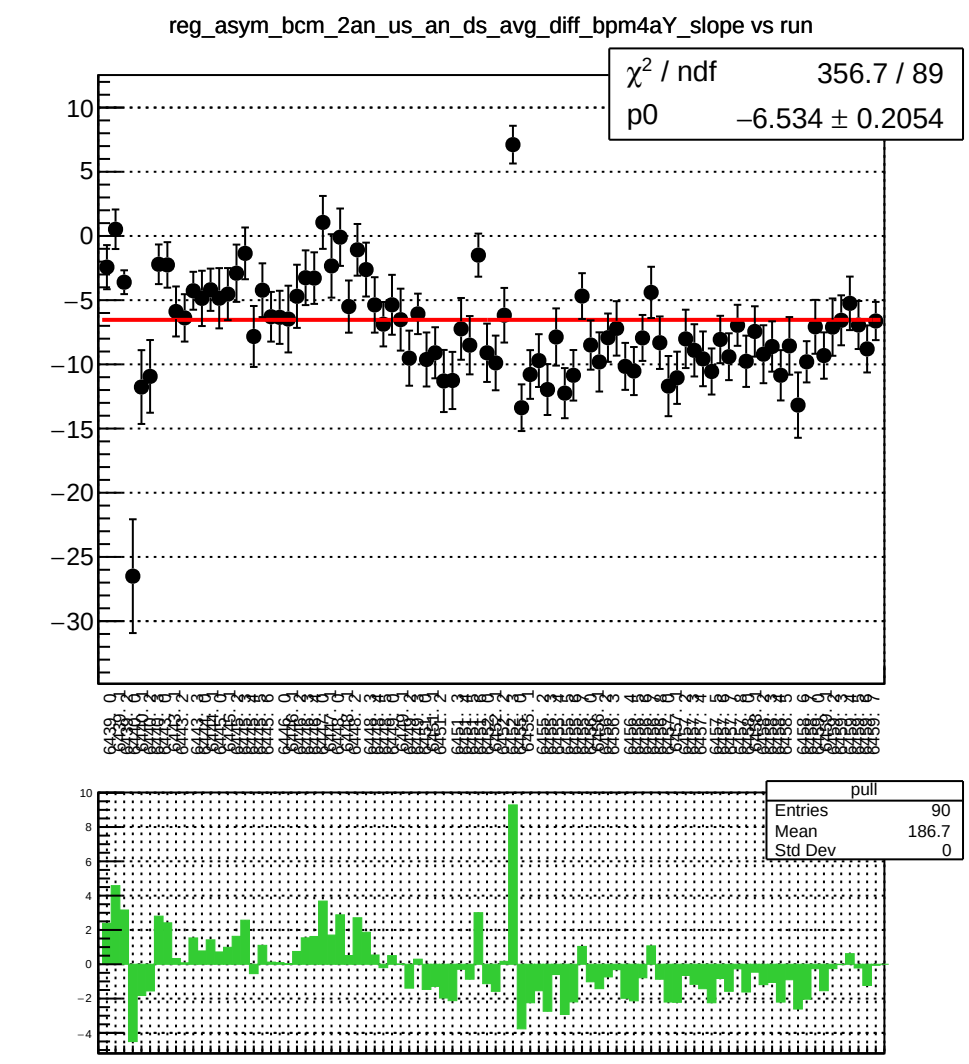

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 532.3 / 89
p0 9.044 ± 0.213
pull
Entries 90
Mean 228.1
Std Dev 0

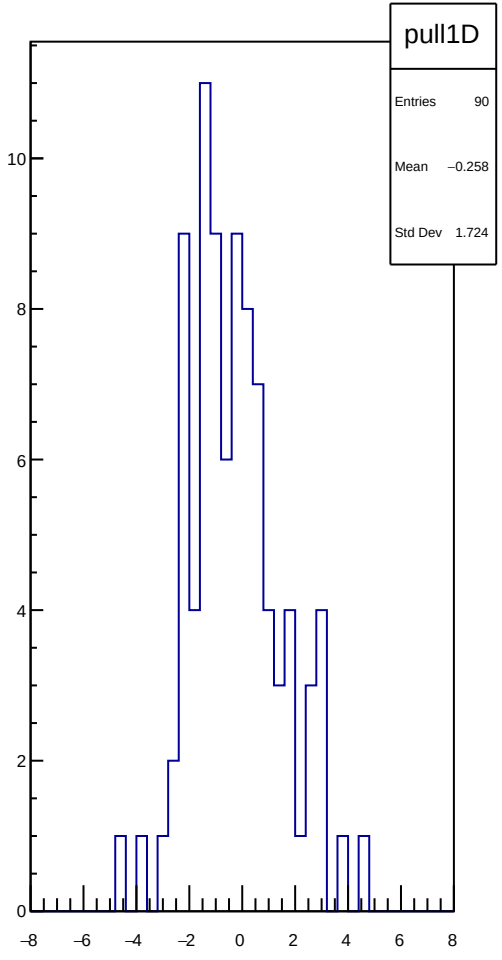

pull1D
Entries 90
Mean 0.308
Std Dev 2.19

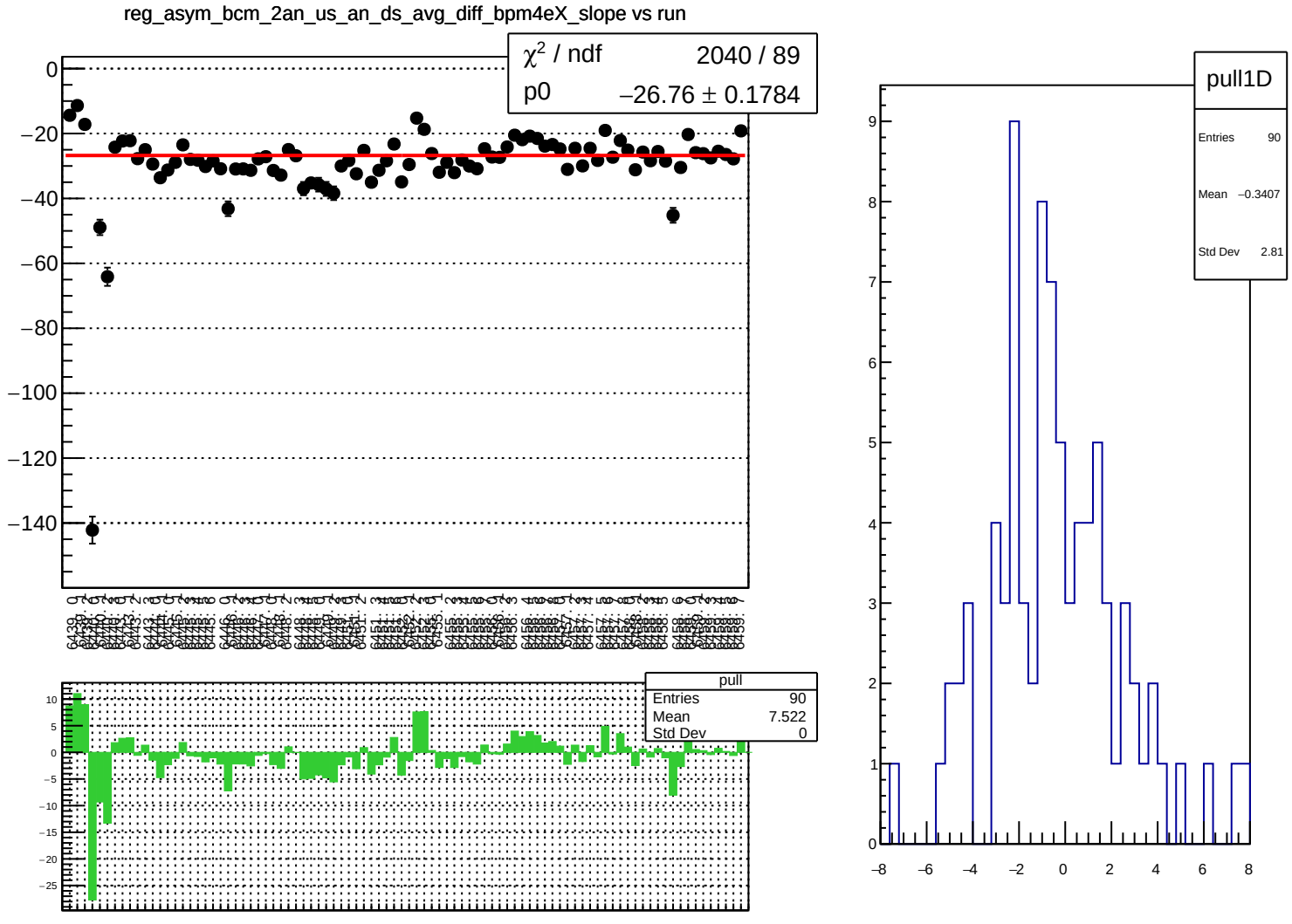

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 522.4 / 89
p0 −0.3374 ± 0.008626
pull
Entries 90
Mean 194.3
Std Dev 0

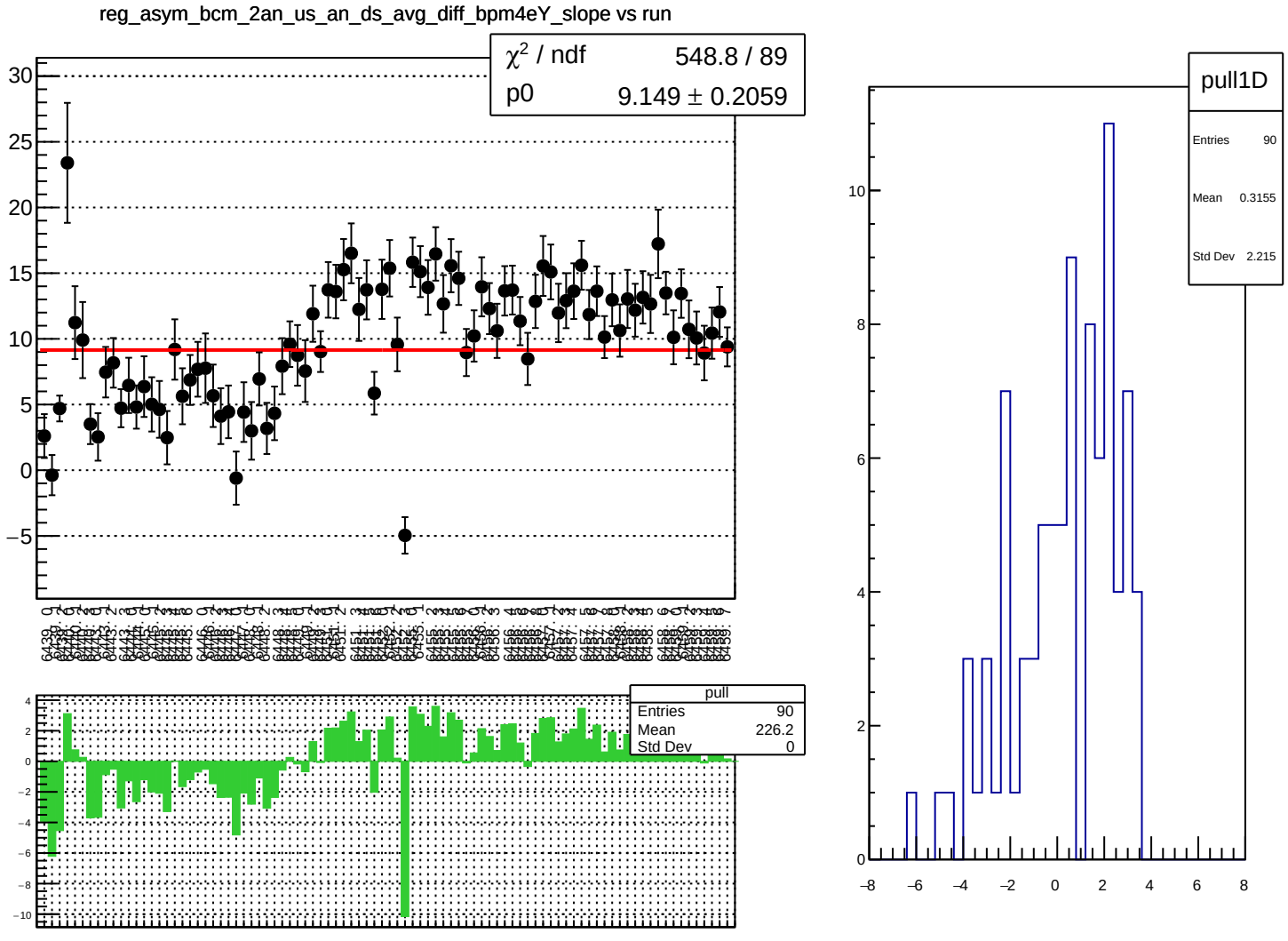

pull1D
Entries 90
Mean −0.2658
Std Dev 2.395

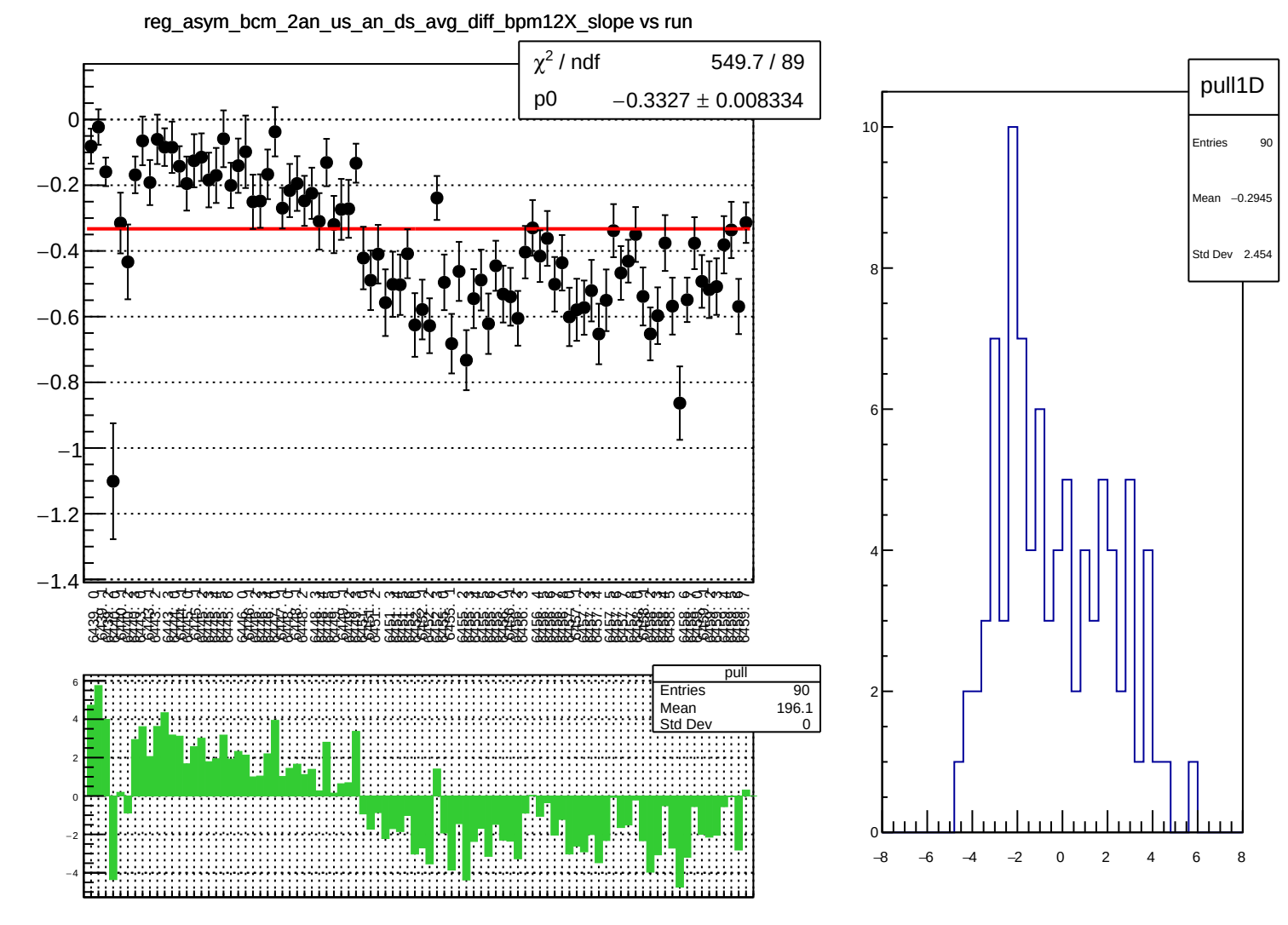

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 2037 / 89
p0 26.35 ± 0.1768
pull
Entries 90
Mean 15.9
Std Dev 0
pull1D
Entries 90
Mean 0.3468
Std Dev 2.716

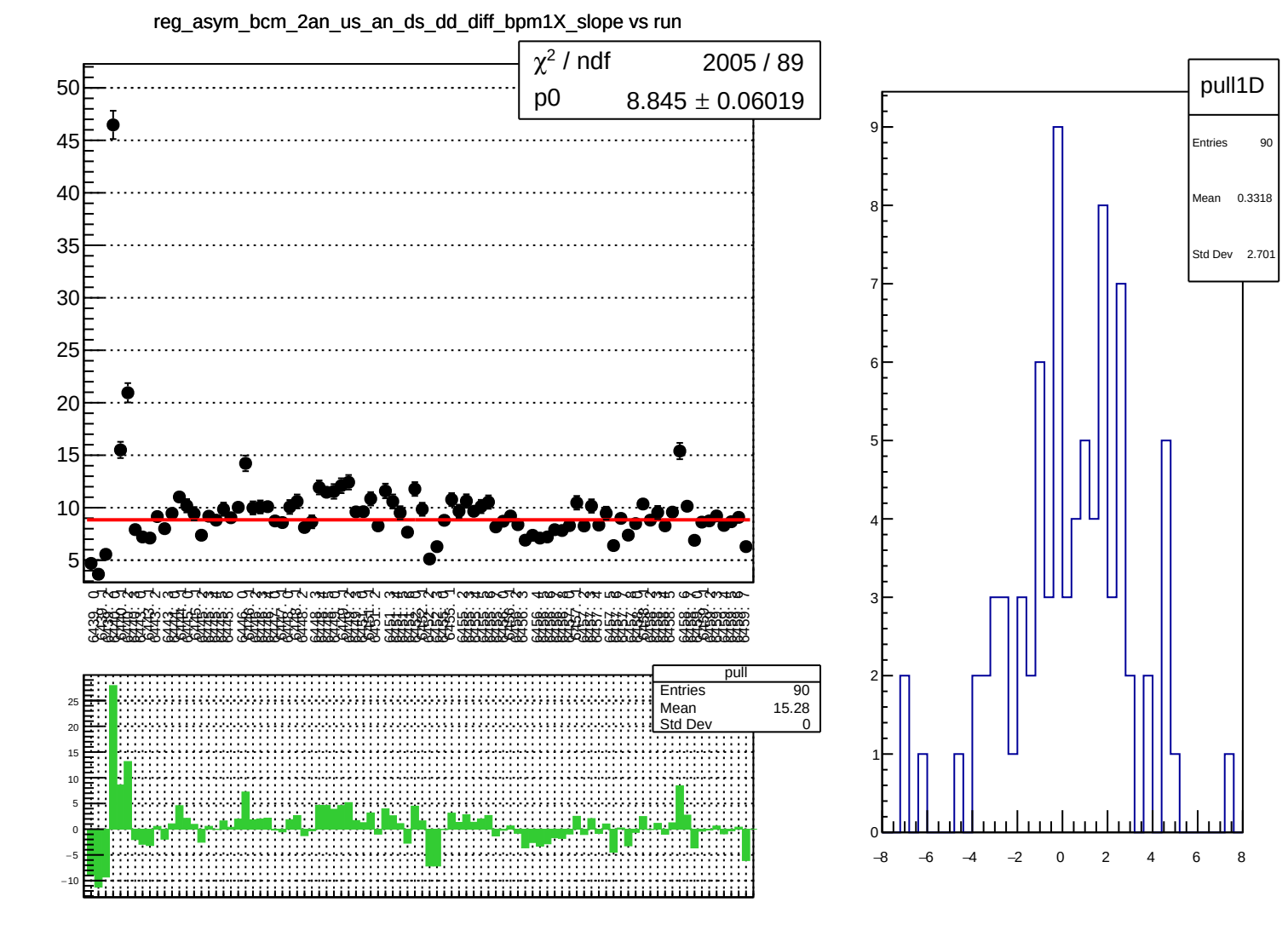

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 356.7 / 89
p0 −6.534 ± 0.2054
pull
Entries 90
Mean 186.7
Std Dev 0

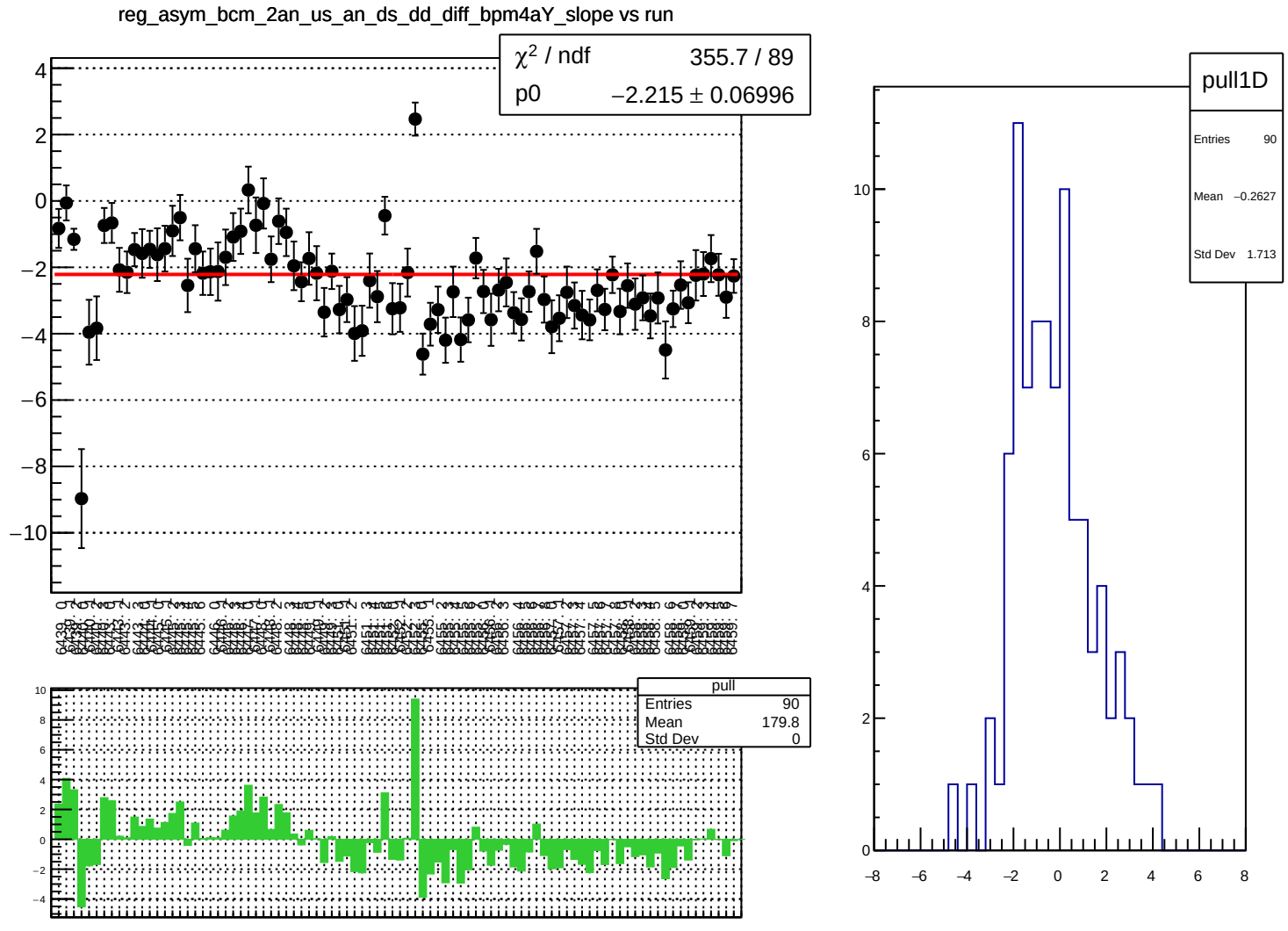

pull1D
Entries 90
Mean −0.258
Std Dev 1.724

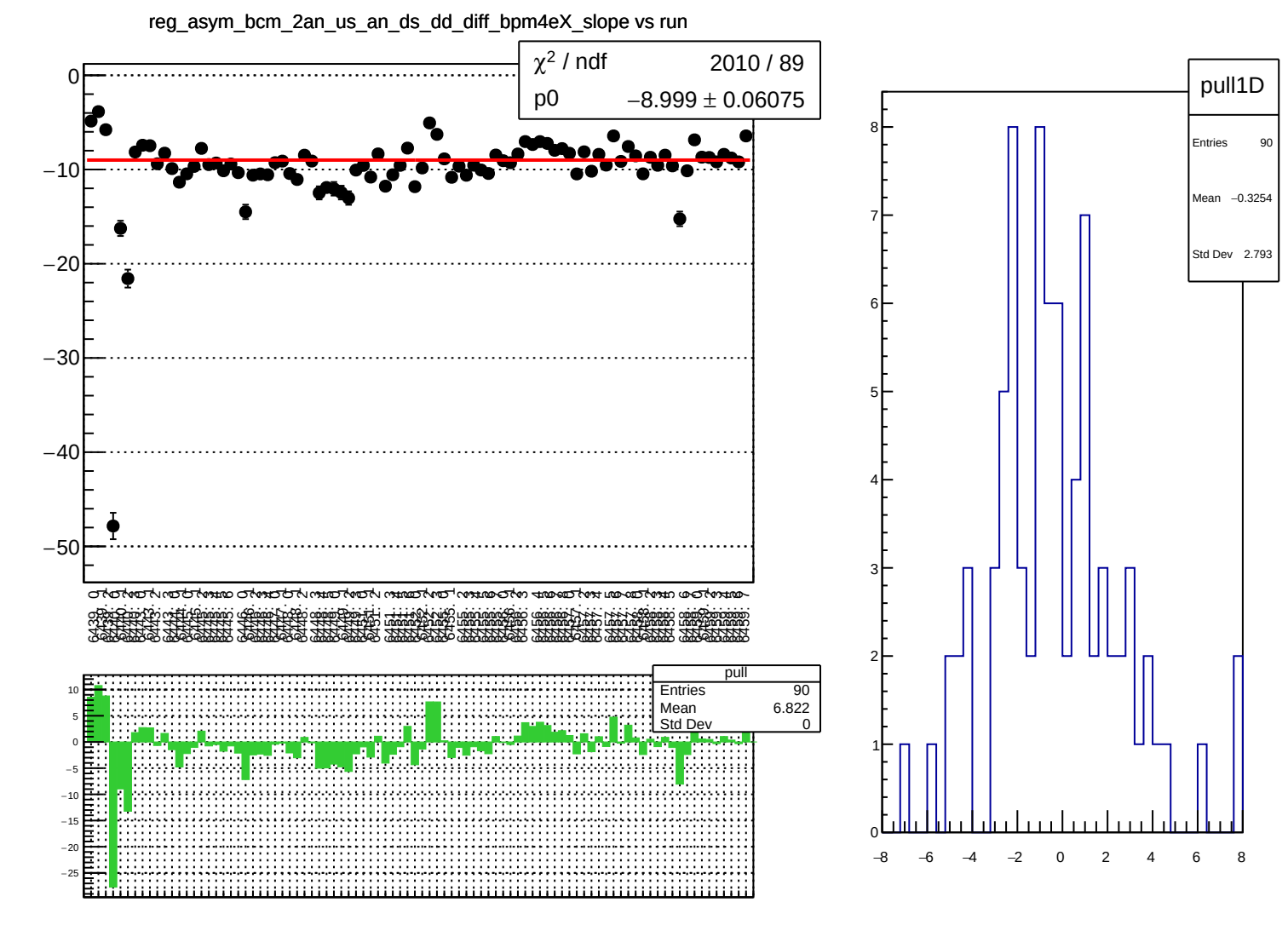

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 2040 / 89
p0 −26.76 ± 0.1784
pull
Entries 90
Mean 7.522
Std Dev 0
pull1D
Entries 90
Mean −0.3407
Std Dev 2.81

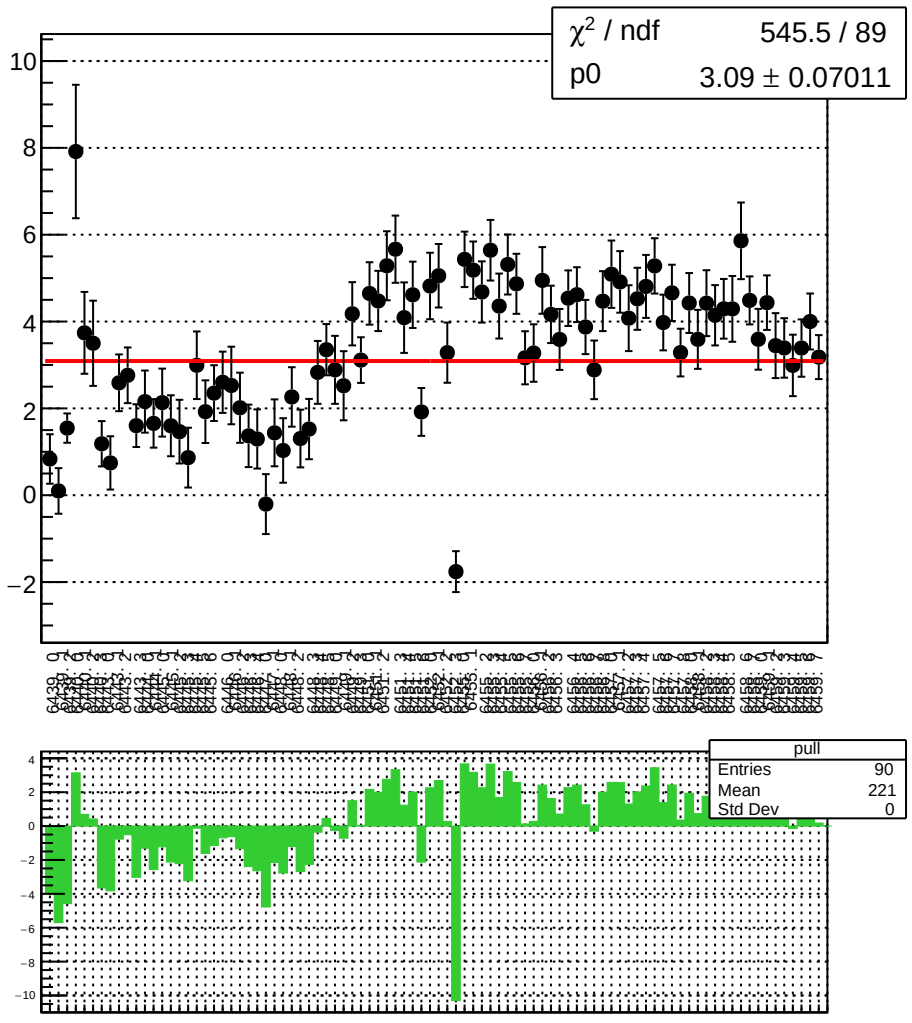

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 548.8 / 89
p0 9.149 ± 0.2059
pull
Entries 90
Mean 226.2
Std Dev 0
pull1D
Entries 90
Mean 0.3155
Std Dev 2.215

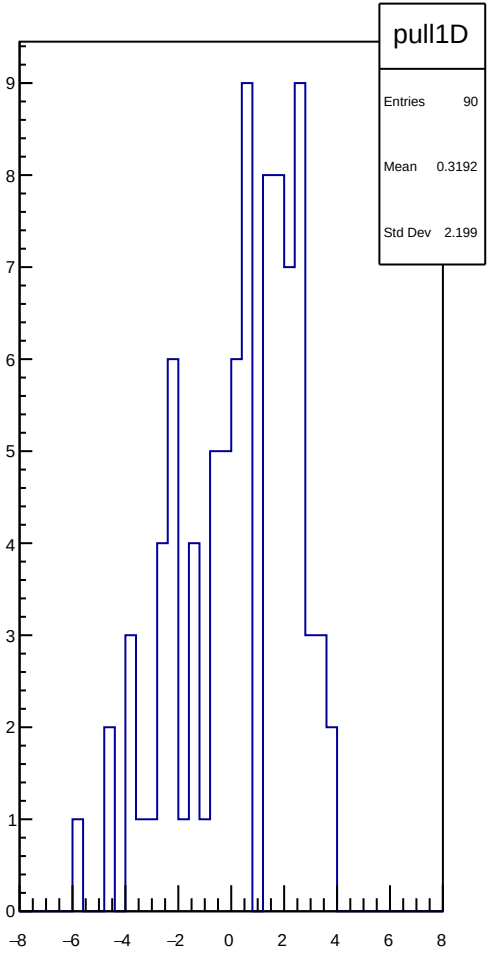

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 549.7 / 89
p0 −0.3327 ± 0.008334
pull
Entries 90
Mean 196.1
Std Dev 0
pull1D
Entries 90
Mean −0.2945
Std Dev 2.454

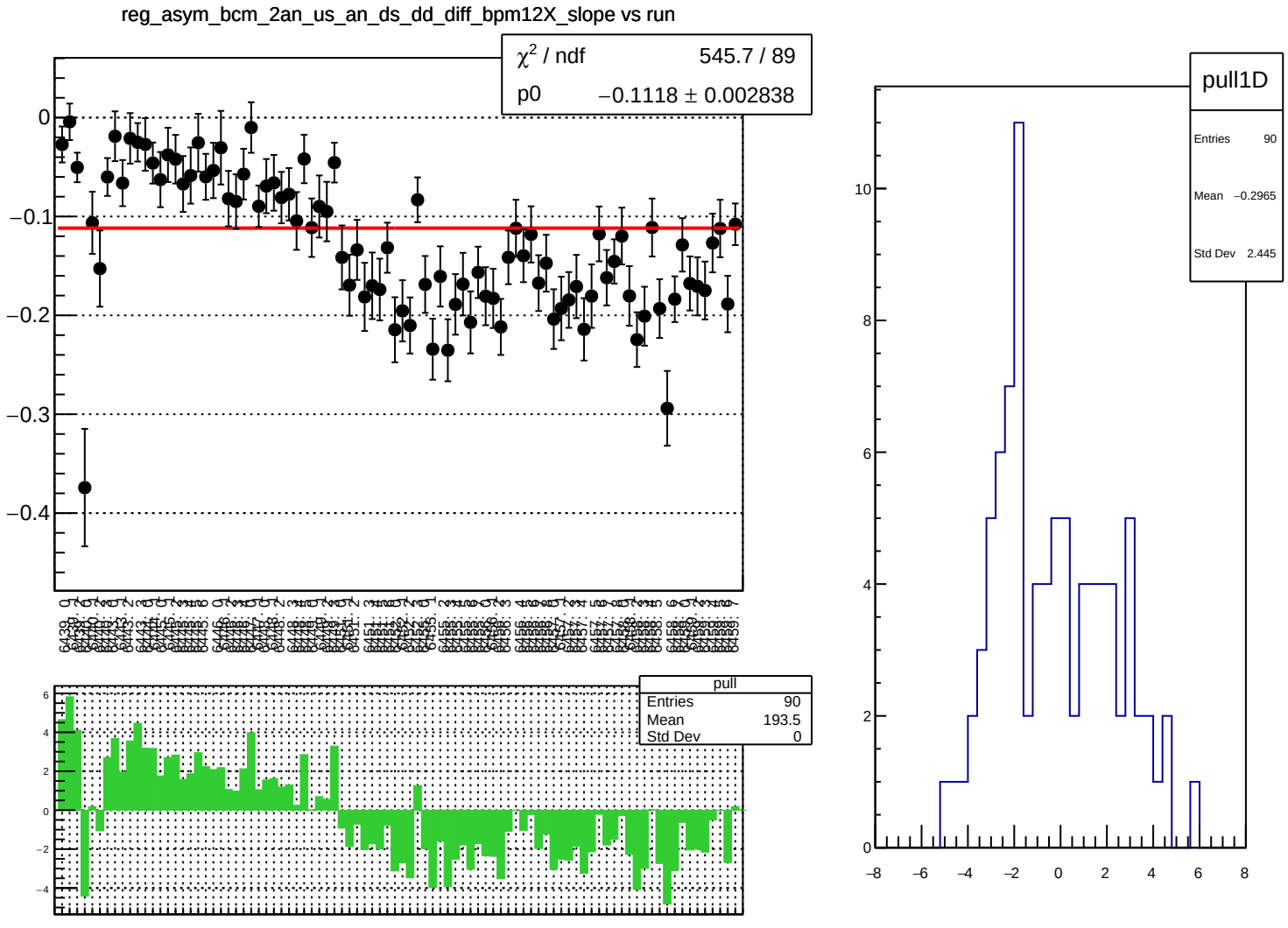

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 2005 / 89
p0 8.845 ± 0.06019
pull
Entries 90
Mean 15.28
Std Dev 0
pull1D
Entries 90
Mean 0.3318
Std Dev 2.701

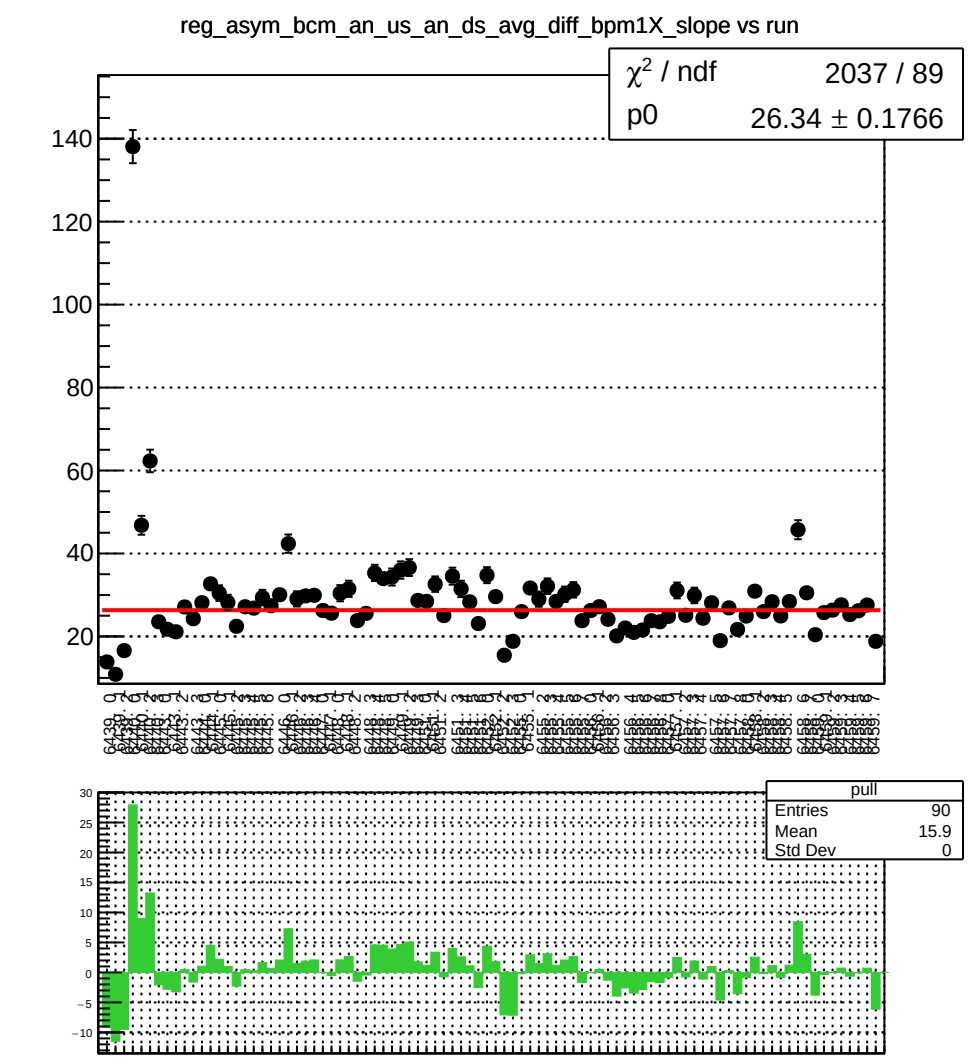

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 355.7 / 89
p0 −2.215 ± 0.06996
pull
Entries 90
Mean 179.8
Std Dev 0
pull1D
Entries 90
Mean −0.2627
Std Dev 1.713

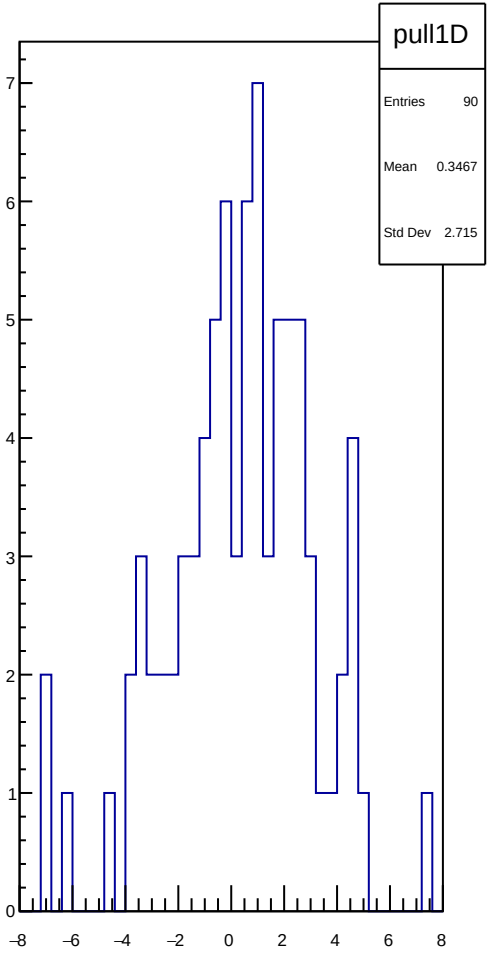

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 2010 / 89
p0 −8.999 ± 0.06075
pull
Entries 90
Mean 6.822
Std Dev 0
pull1D
Entries 90
Mean −0.3254
Std Dev 2.793

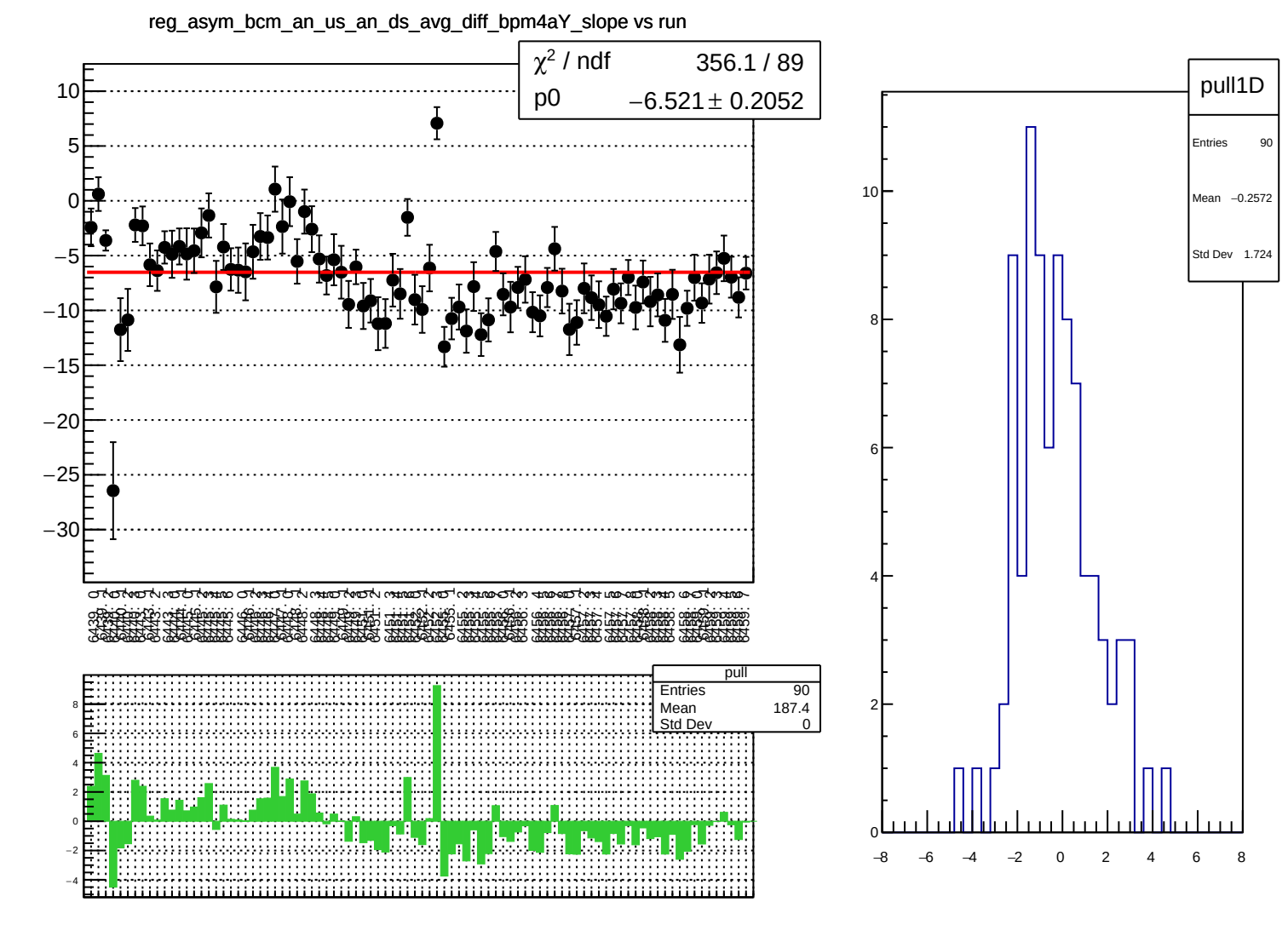

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 545.5 / 89
p0 3.09 ± 0.07011
pull
Entries 90
Mean 221
Std Dev 0

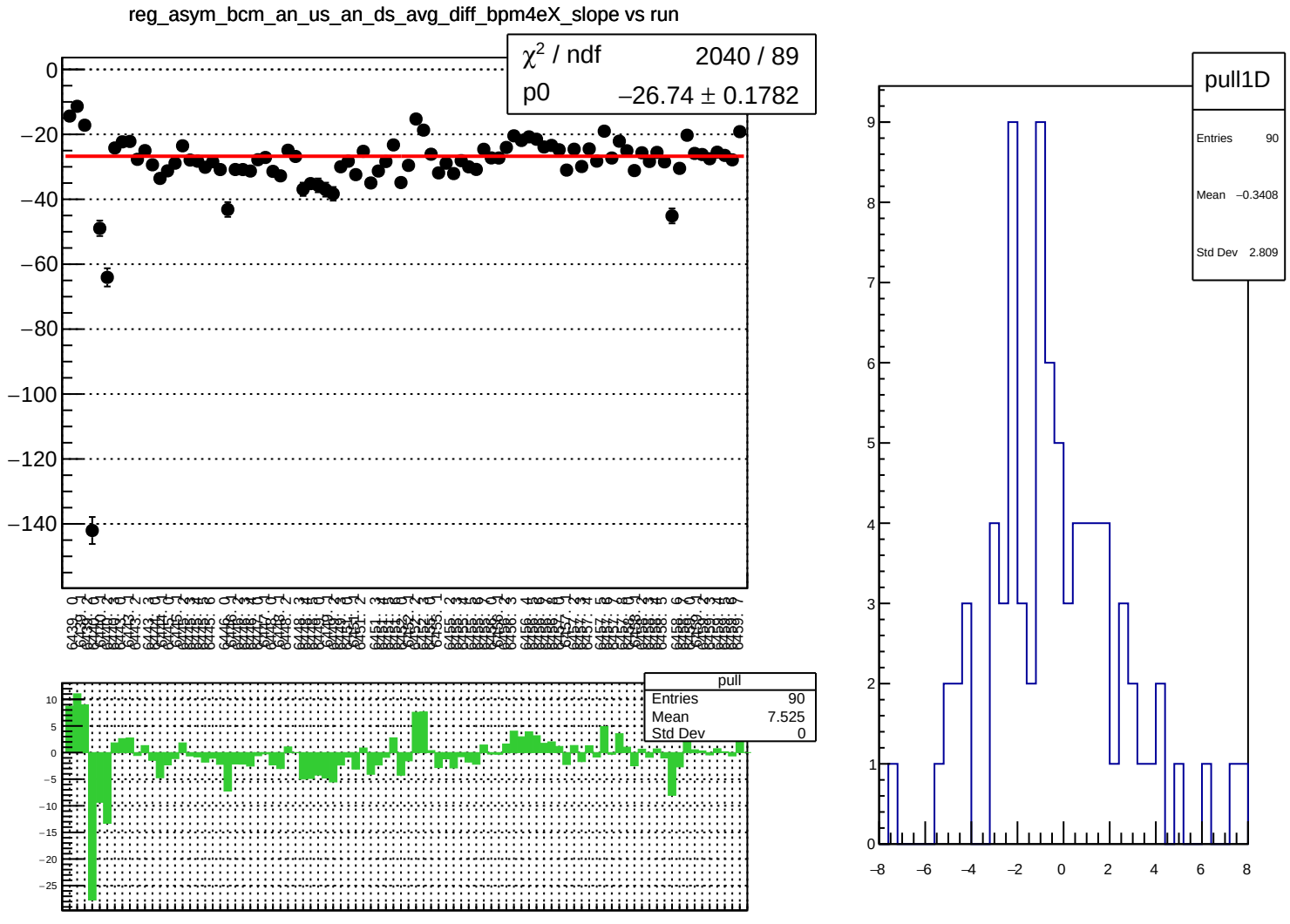

pull1D
Entries 90
Mean 0.3192
Std Dev 2.199

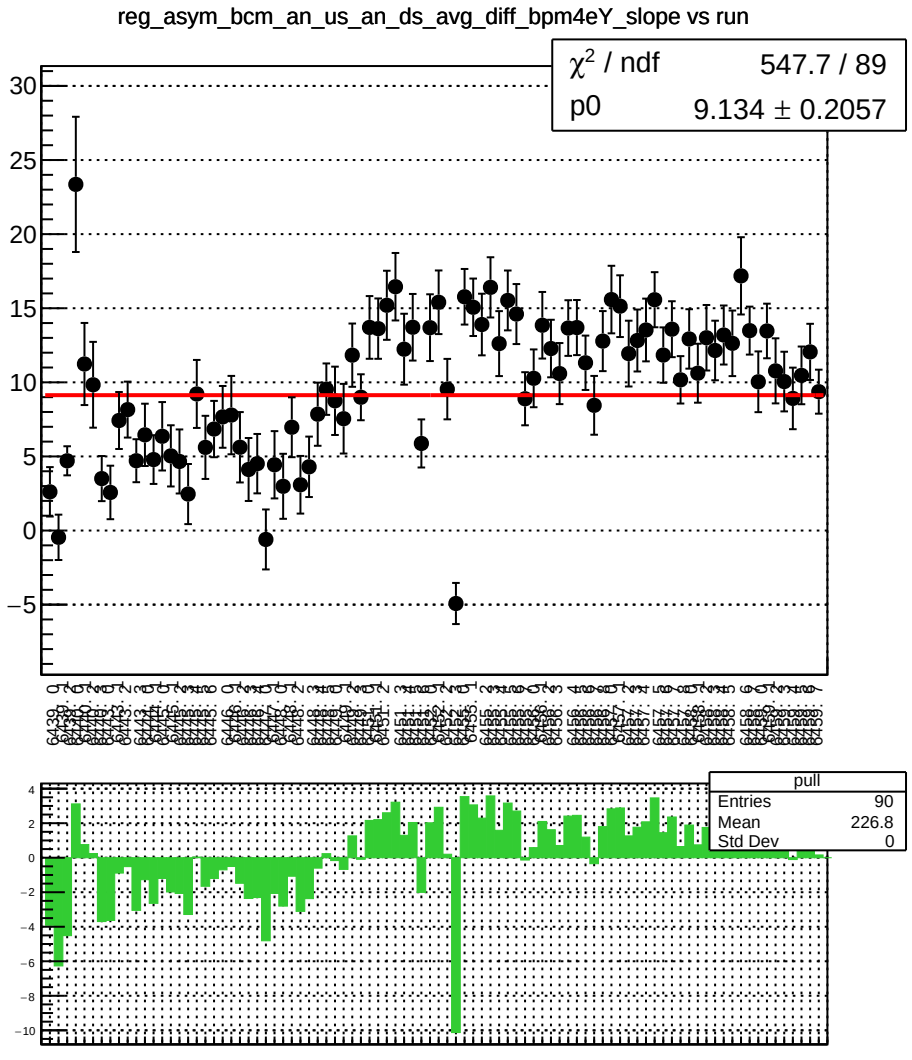

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 545.7 / 89
p0 −0.1118 ± 0.002838
0
−0.1
−0.2
−0.3
−0.4
pull
Entries 90
Mean 193.5
Std Dev 0
pull1D
Entries 90
Mean −0.2965
Std Dev 2.445

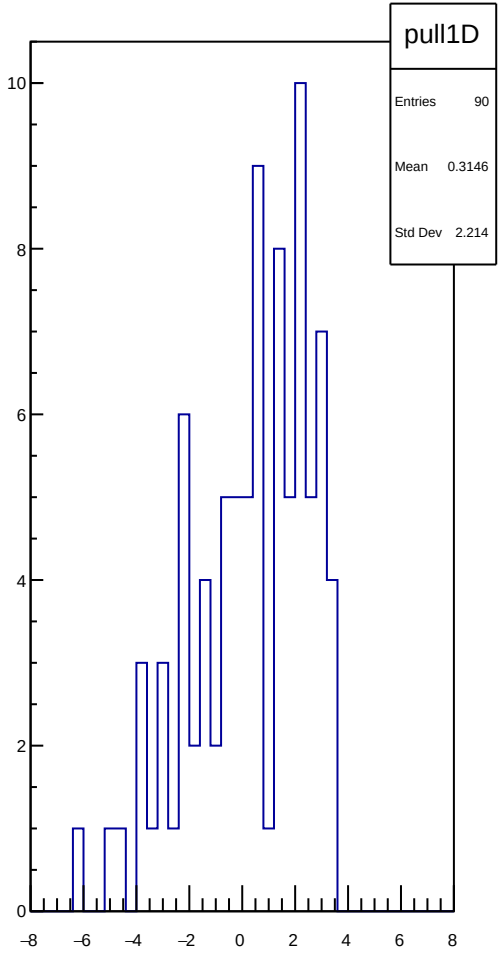

reg_asym_bcm_an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 2037 / 89
p0 26.34 ± 0.1766
pull
Entries 90
Mean 15.9
Std Dev 0

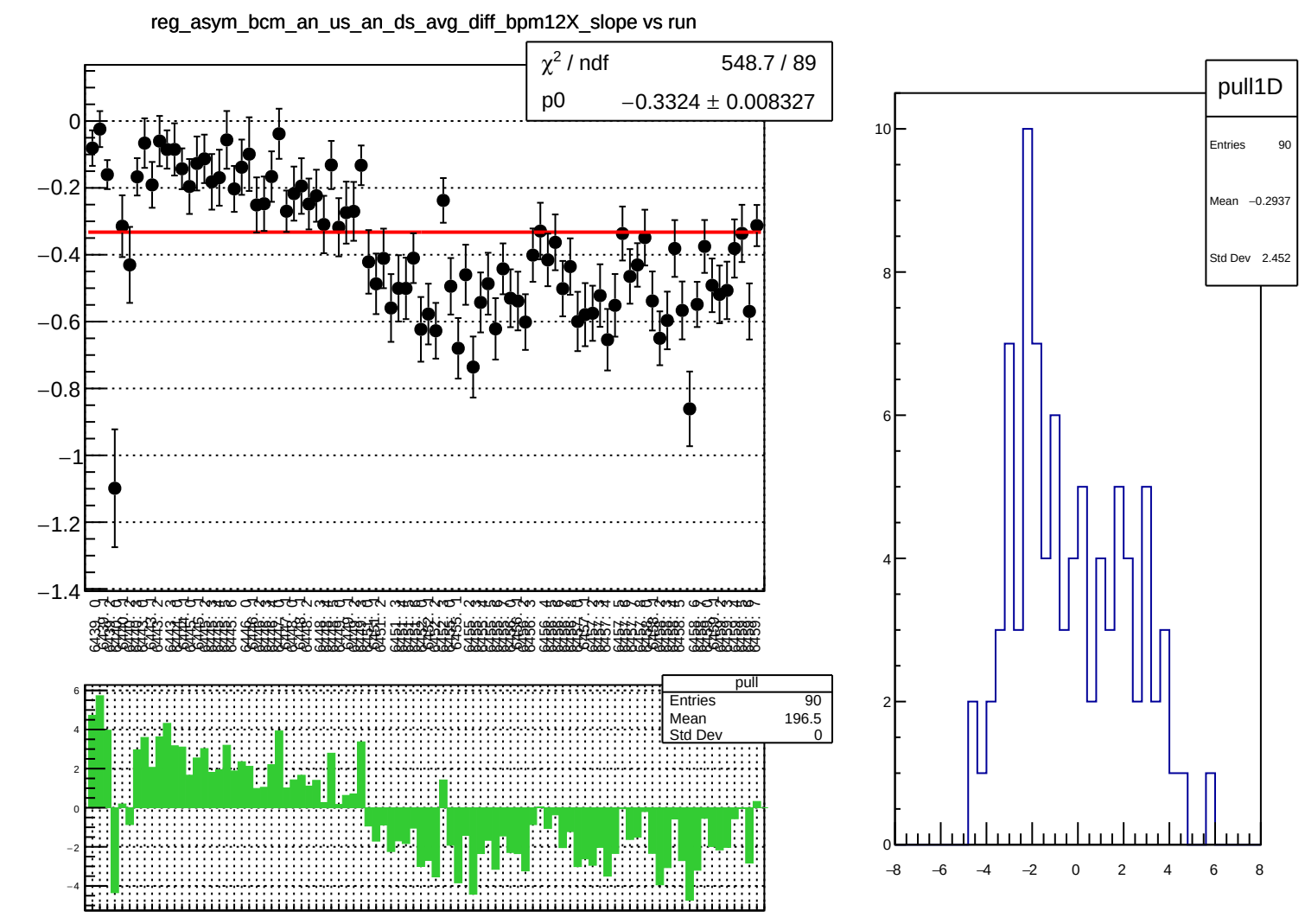

pull1D
Entries 90
Mean 0.3467
Std Dev 2.715

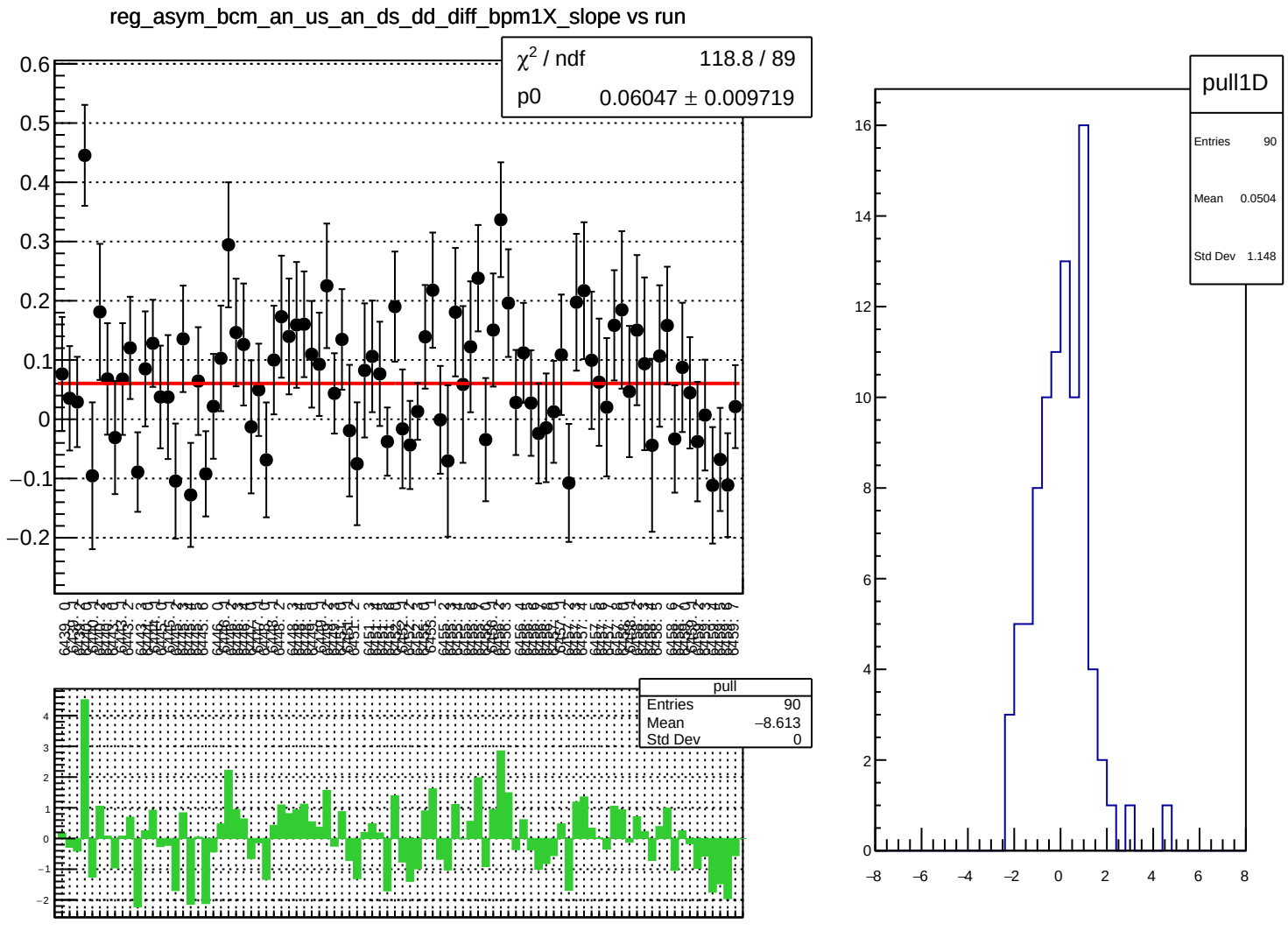

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 356.1 / 89
p0 −6.521 ± 0.2052
pull
Entries 90
Mean 187.4
Std Dev 0
pull1D
Entries 90
Mean −0.2572
Std Dev 1.724

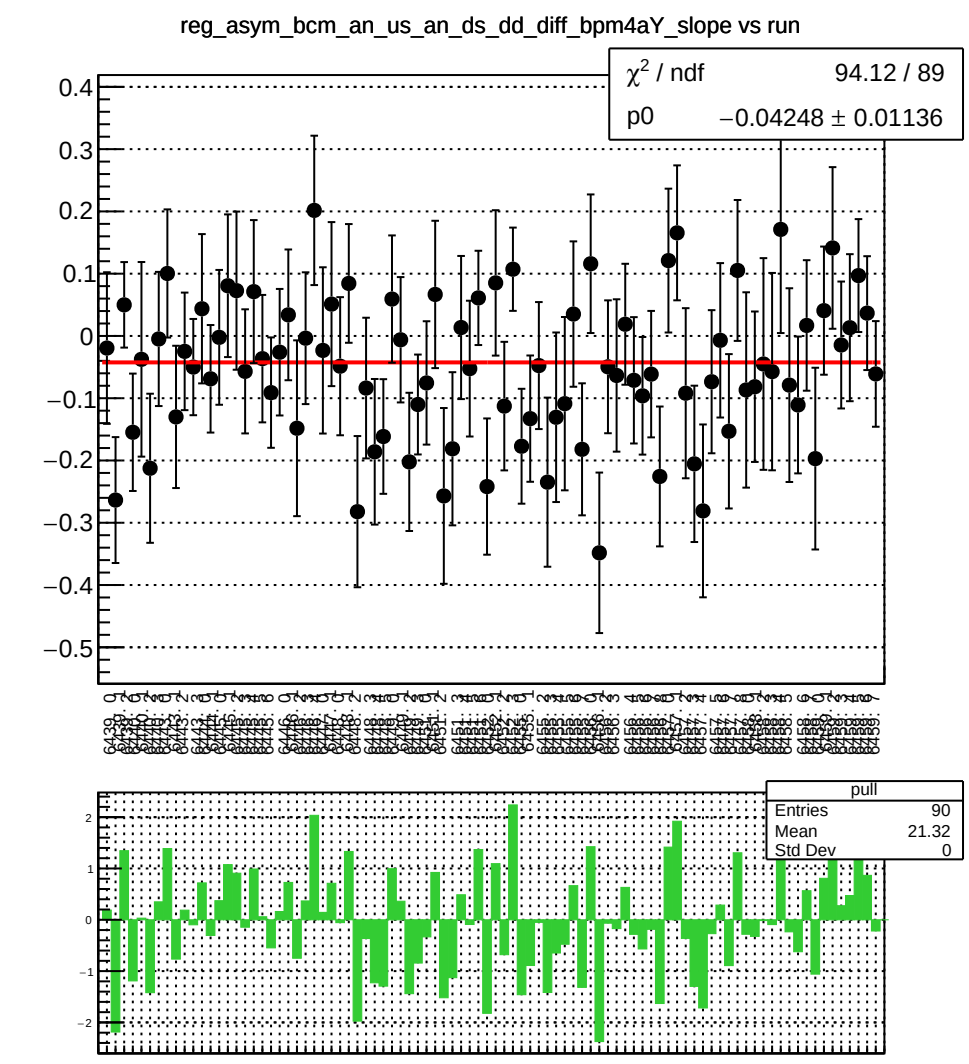

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 2040 / 89
p0 −26.74 ± 0.1782
pull
Entries 90
Mean 7.525
Std Dev 0
pull1D
Entries 90
Mean −0.3408
Std Dev 2.809

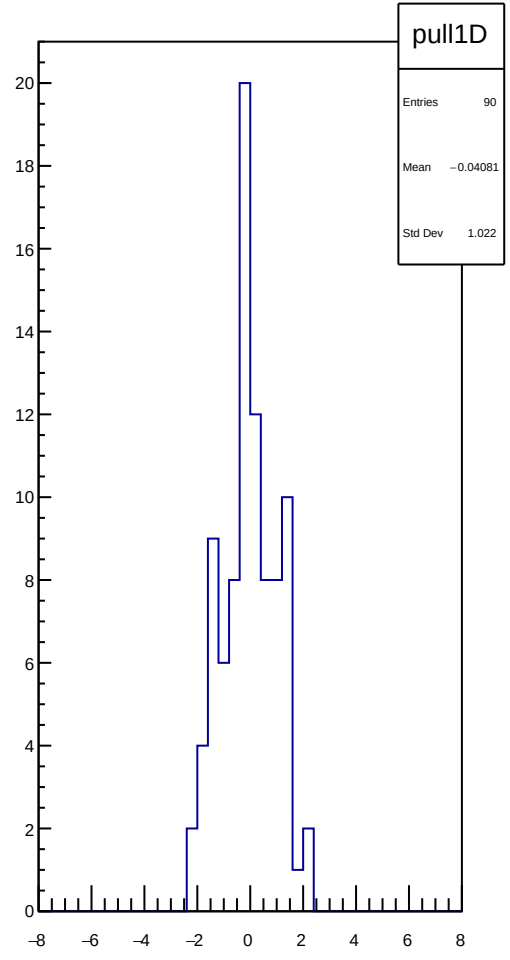

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 547.7 / 89
p0 9.134 ± 0.2057
pull
Entries 90
Mean 226.8
Std Dev 0

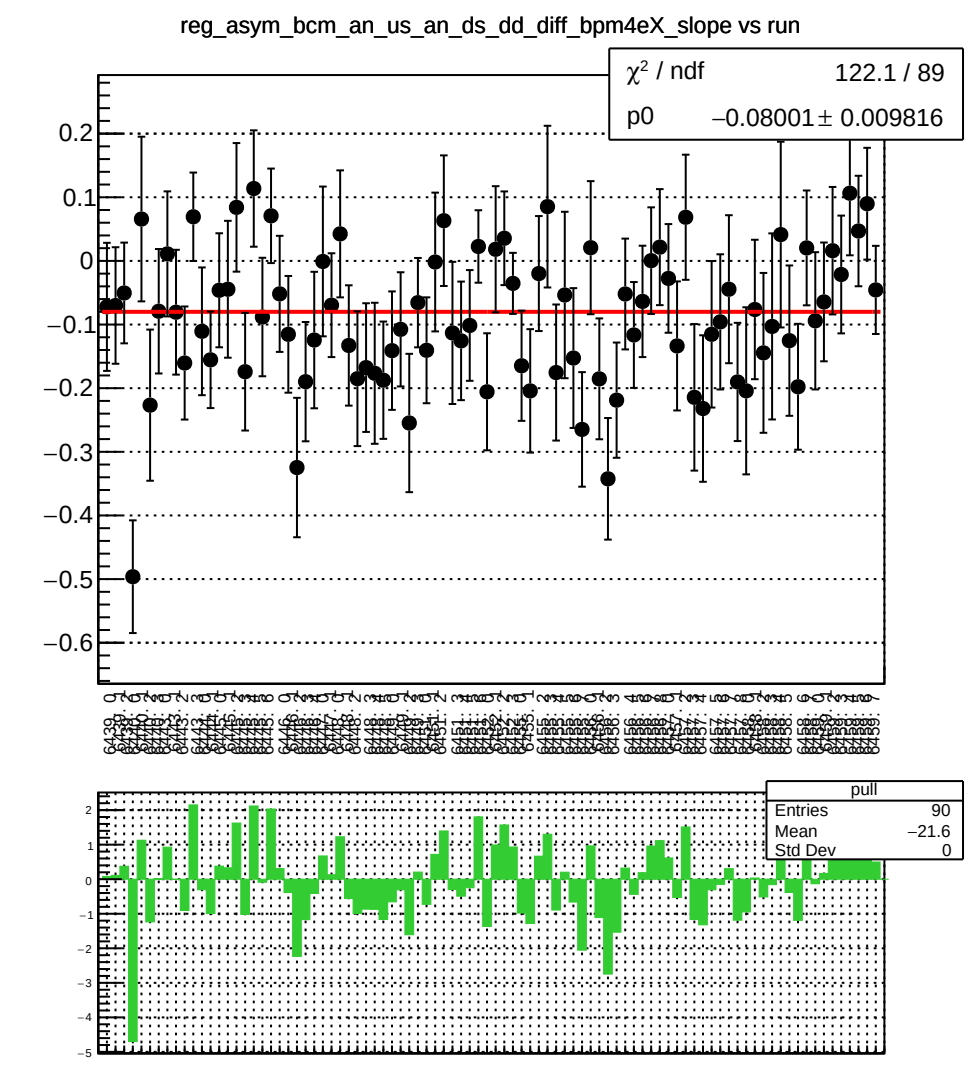

pull1D
Entries 90
Mean 0.3146
Std Dev 2.214

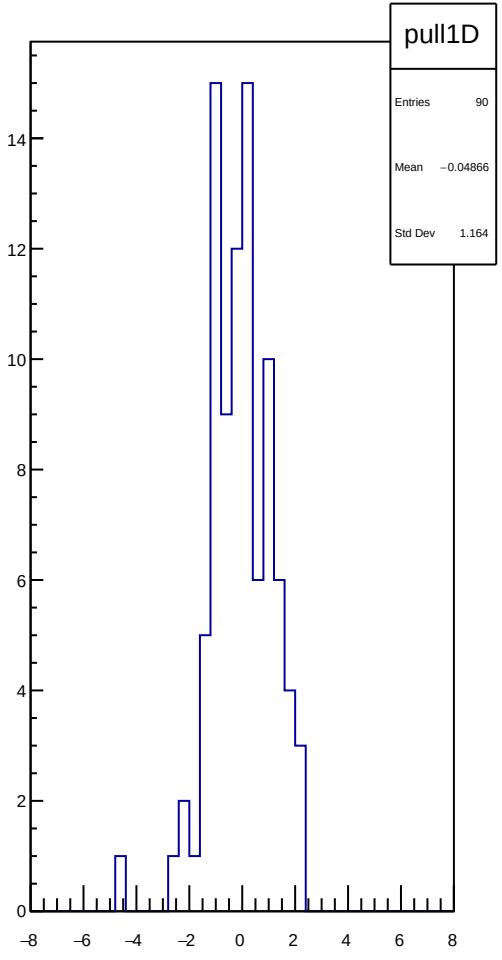

reg_asym_bcm_an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 548.7 / 89
p0 −0.3324 ± 0.008327
pull
Entries 90
Mean 196.5
Std Dev 0
pull1D
Entries 90
Mean −0.2937
Std Dev 2.452

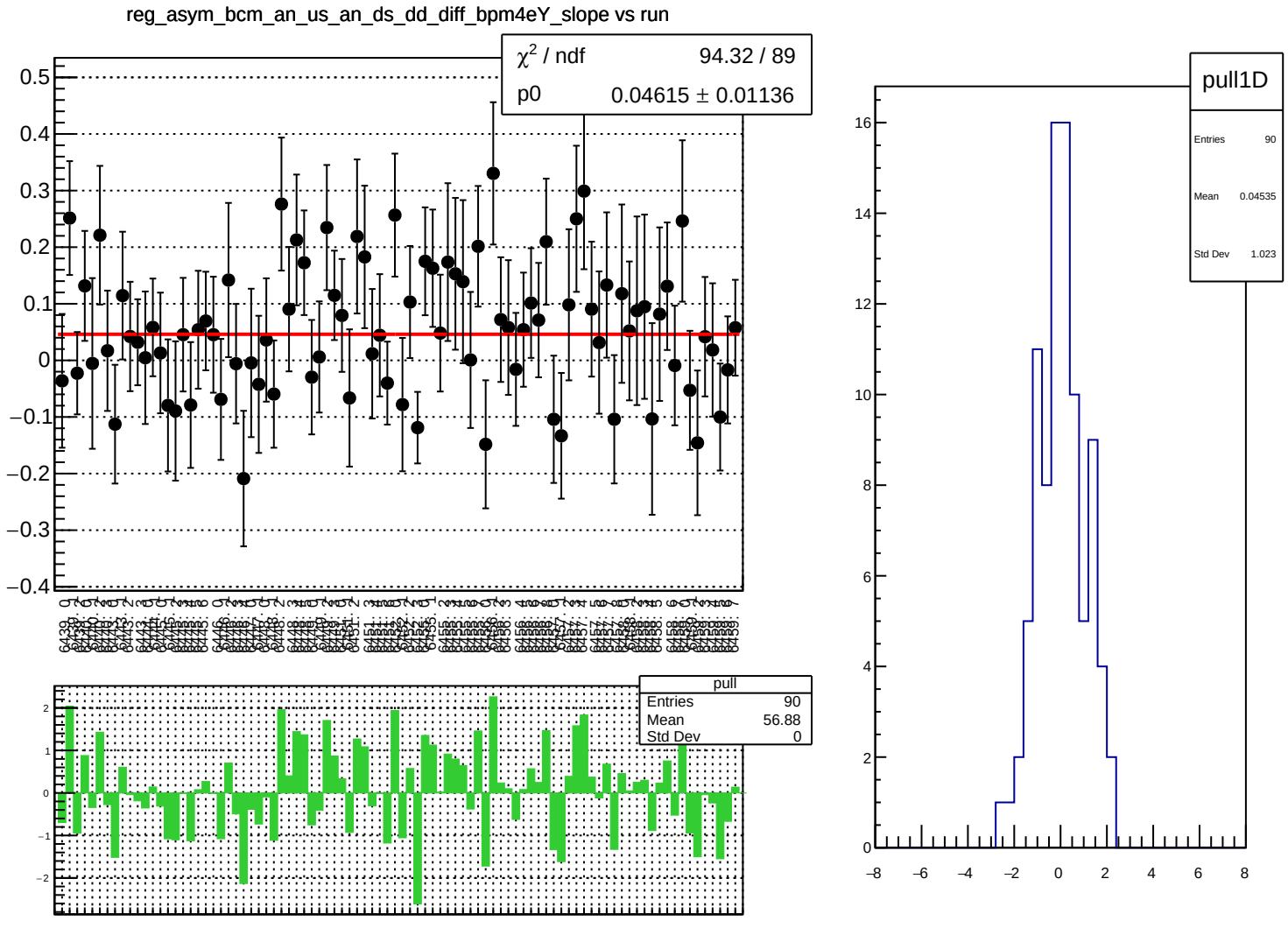

reg_asym_bcm_an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 118.8 / 89
p0 0.06047 ± 0.009719
pull
Entries 90
Mean −8.613
Std Dev 0
pull1D
Entries 90
Mean 0.0504
Std Dev 1.148

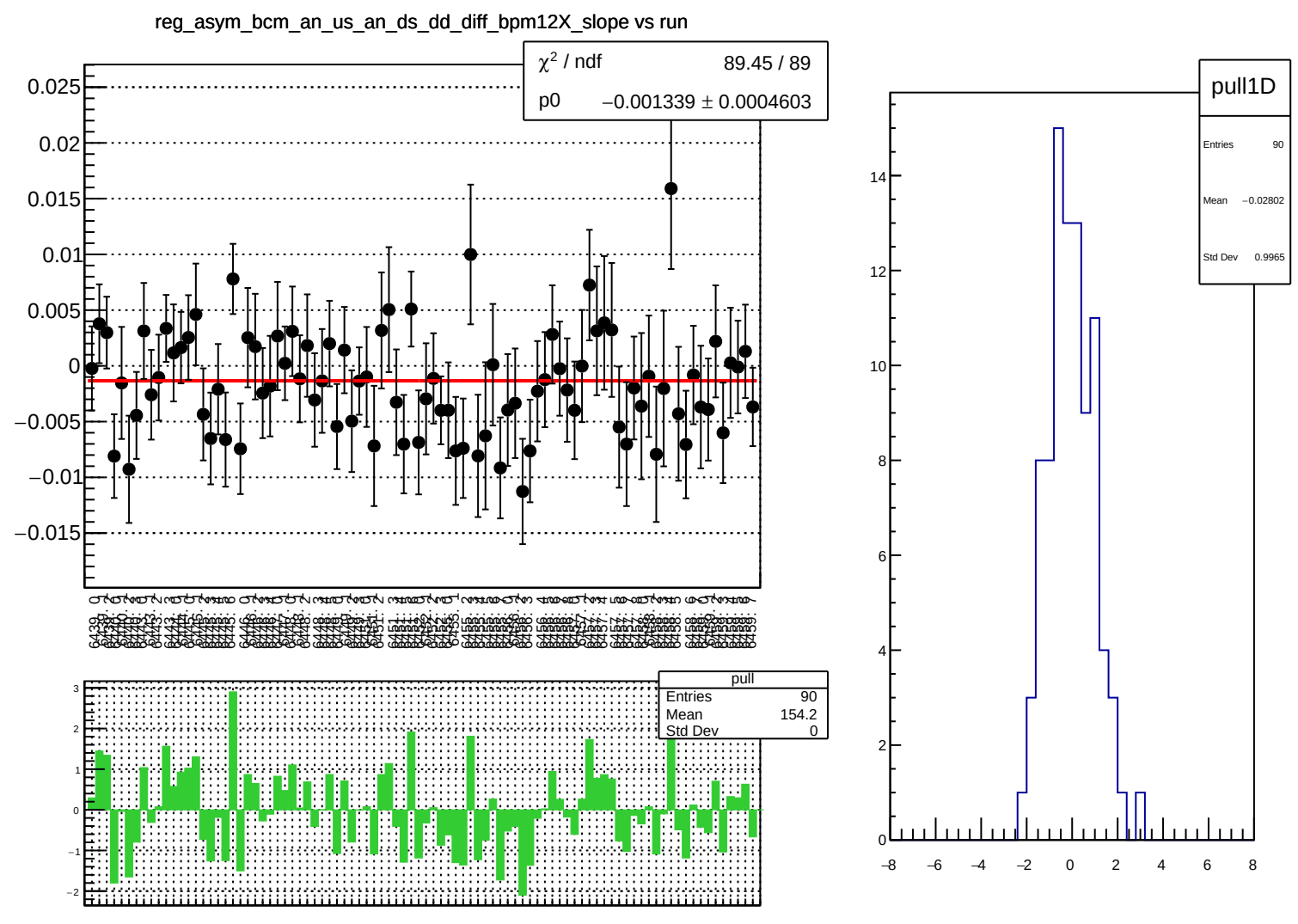

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 94.12 / 89
p0 −0.04248 ± 0.01136
pull
Entries 90
Mean 21.32
Std Dev 0

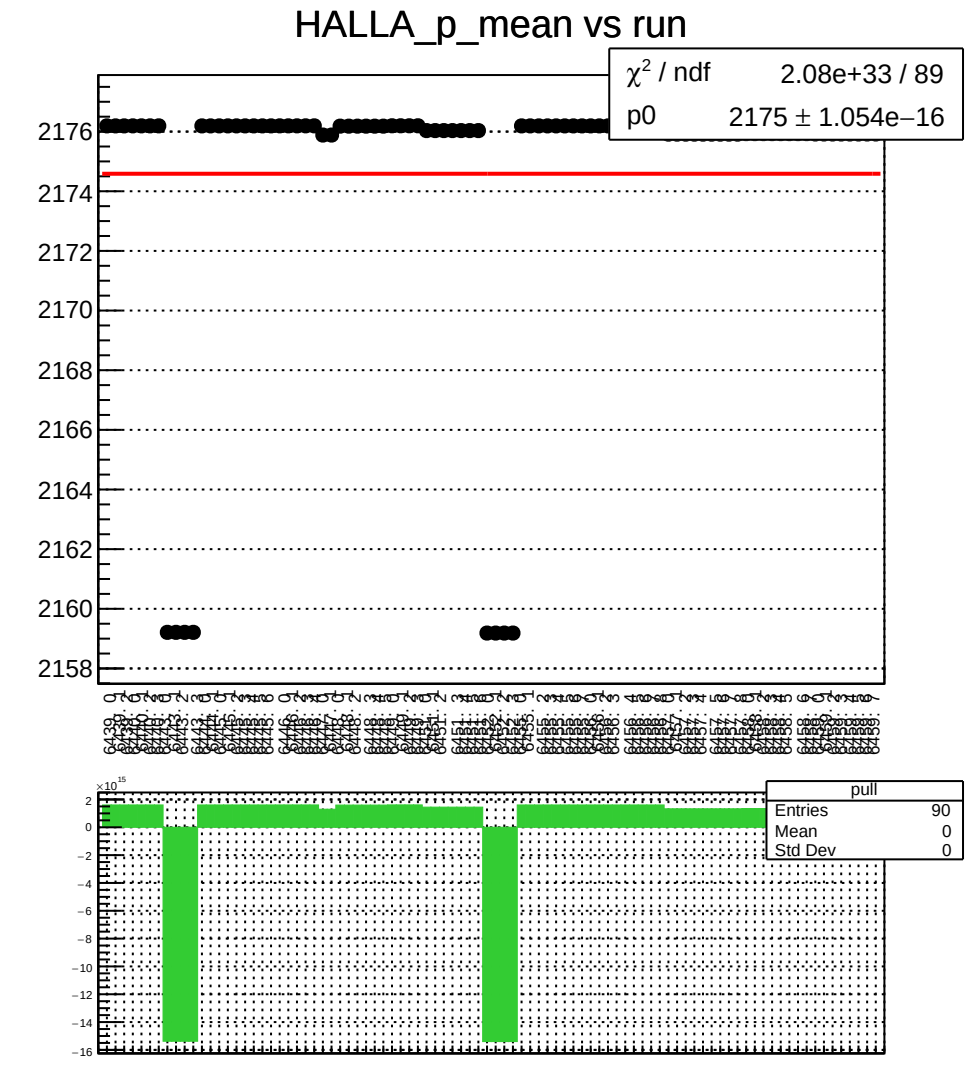

pull1D
Entries 90
Mean −0.04081
Std Dev 1.022

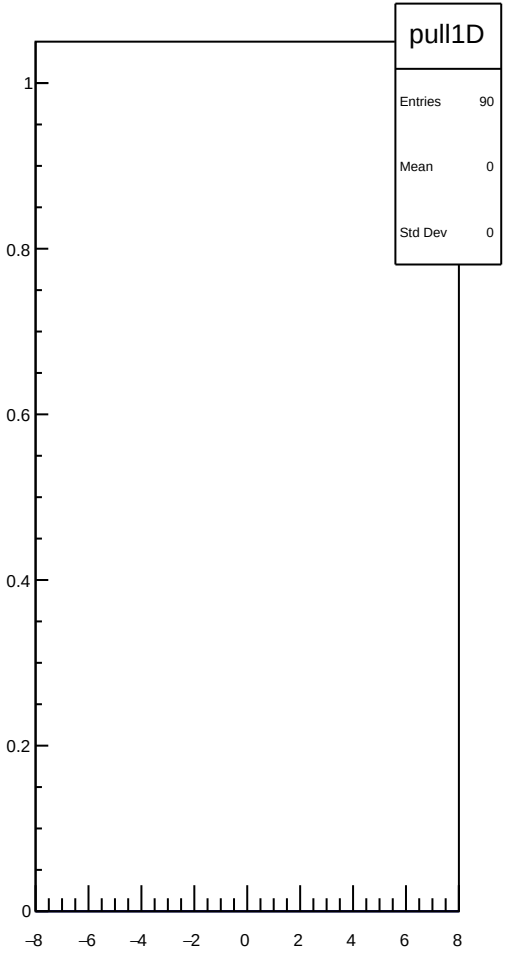

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 122.1 / 89
p0 −0.08001 ± 0.009816
pull
Entries 90
Mean −21.6
Std Dev 0

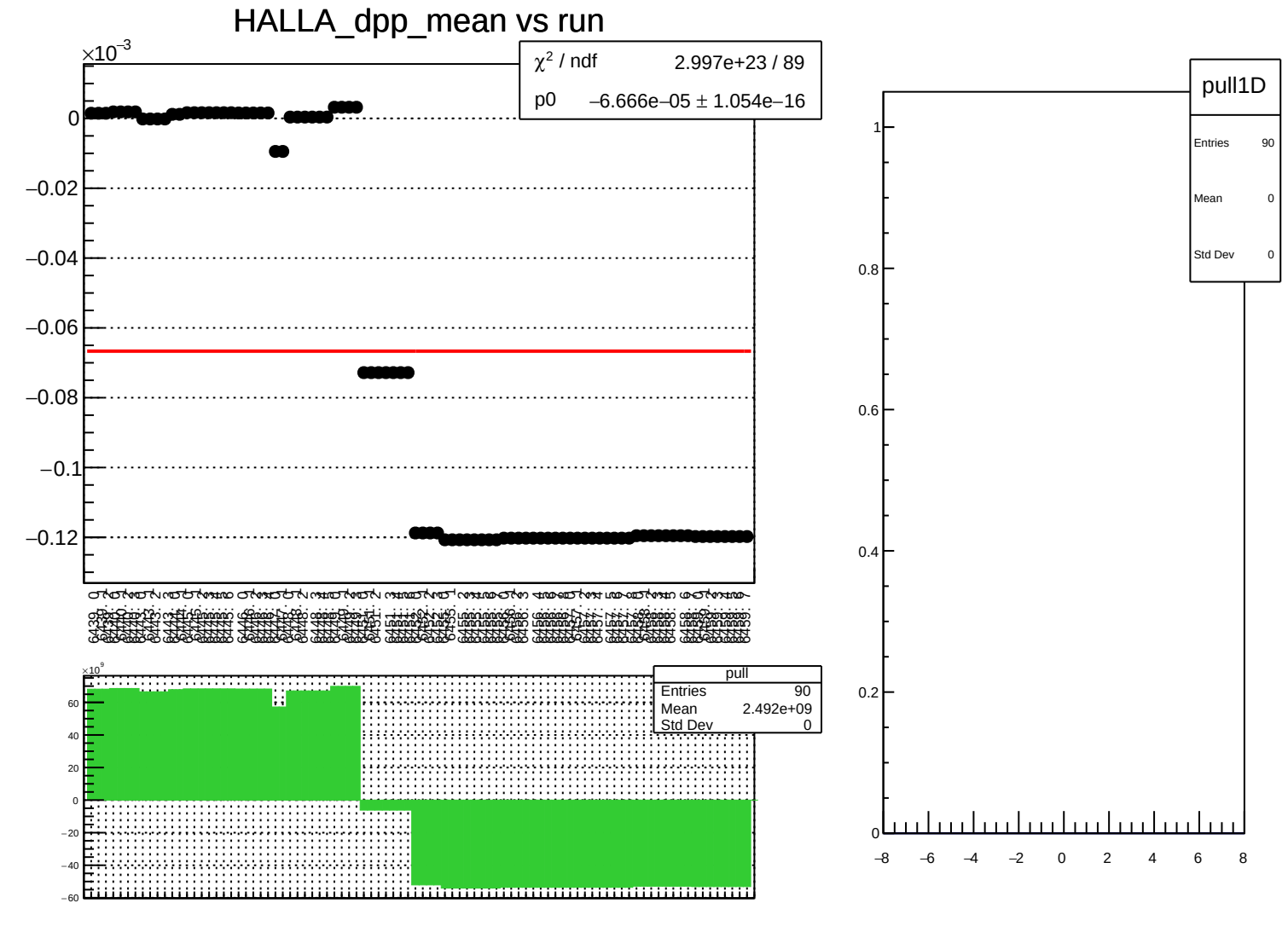

pull1D
Entries 90
Mean −0.04866
Std Dev 1.164

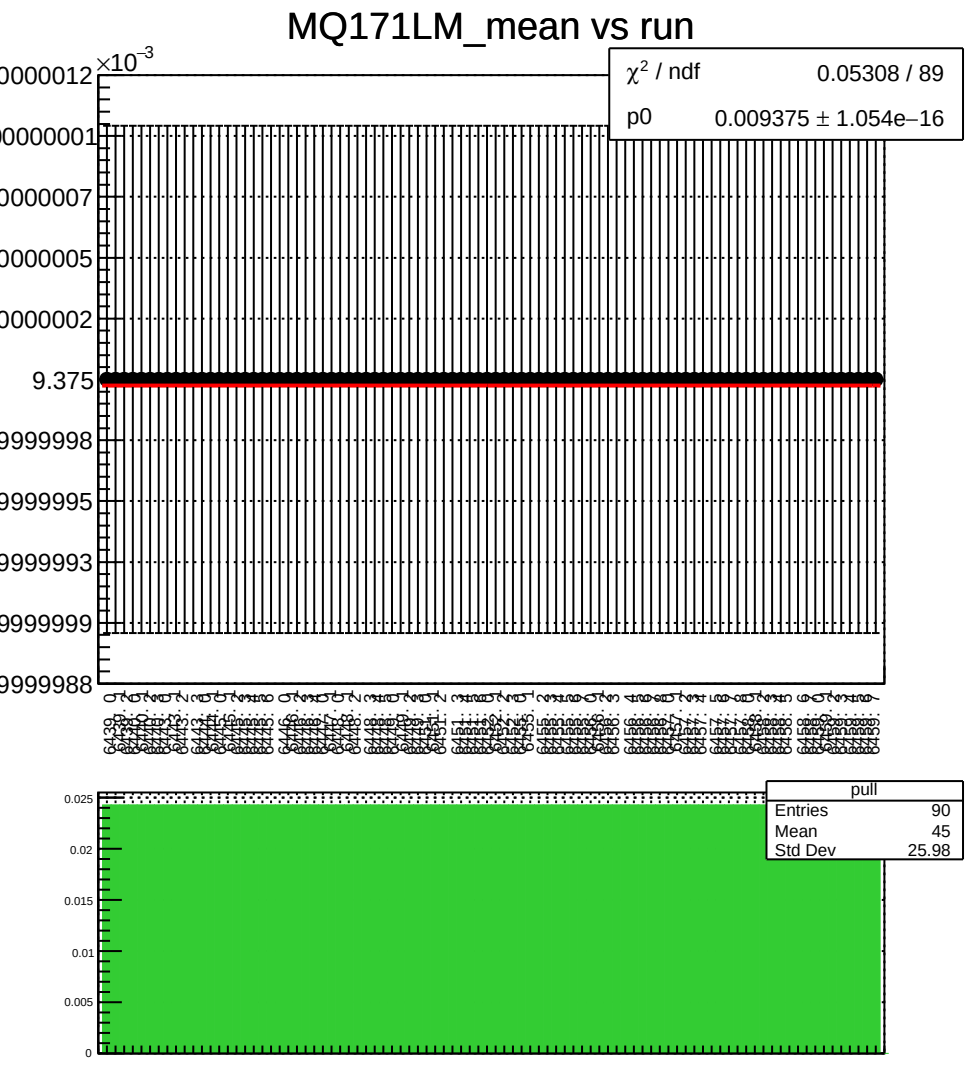

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 94.32 / 89
p0 0.04615 ± 0.01136
pull
Entries 90
Mean 56.88
Std Dev 0
pull1D
Entries 90
Mean 0.04535
Std Dev 1.023

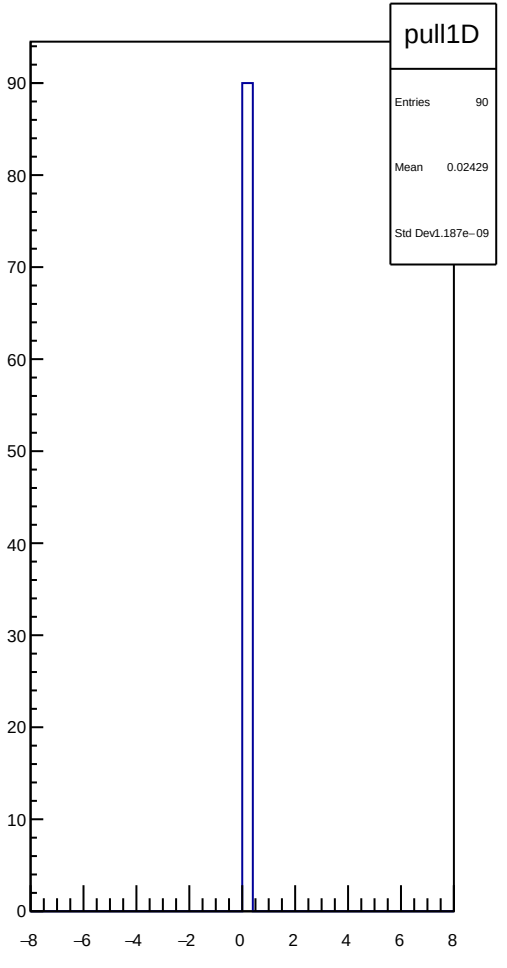

reg_asym_bcm_an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 89.45 / 89
p0 −0.001339 ± 0.0004603
pull
Entries 90
Mean 154.2
Std Dev 0
pull1D
Entries 90
Mean −0.02802
Std Dev 0.9965

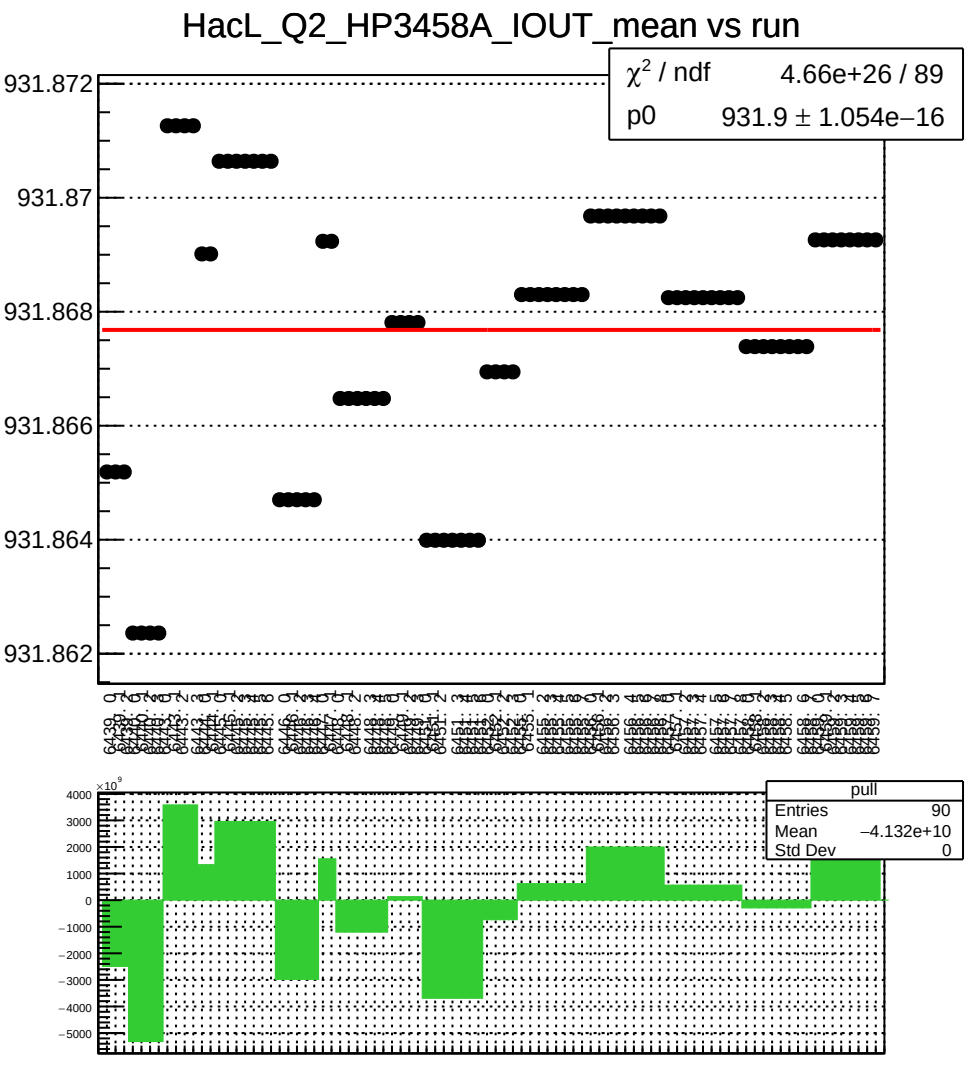

HALLA_p_mean vs run
χ² / ndf 2.08e+33 / 89
p0 2175 ± 1.054e−16
2176
2174
2172
2170
2168
2166
2164
2162
2160
2158
pull
Entries 90
Mean 0
Std Dev 0
×10¹⁵
2
0
−2
−4
−6
−8
−10
−12
−14
−16

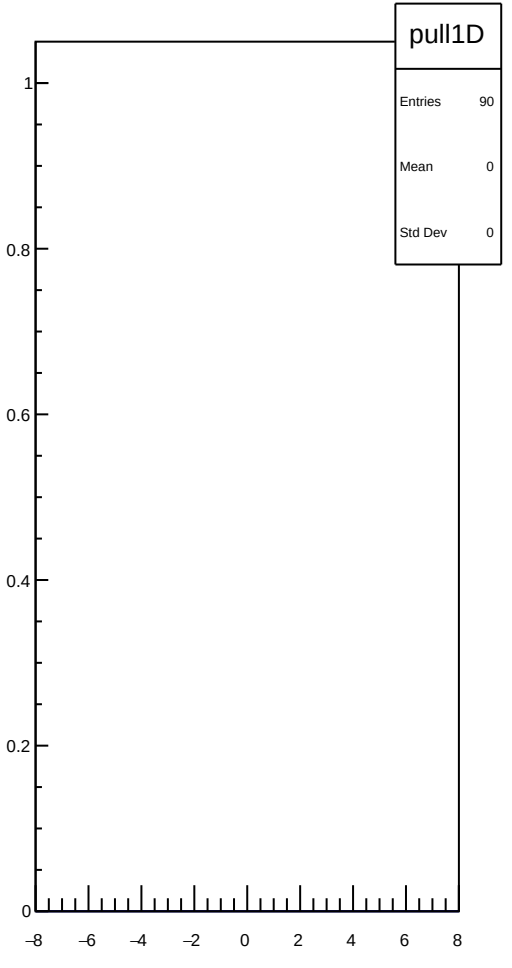

pull1D
Entries 90
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

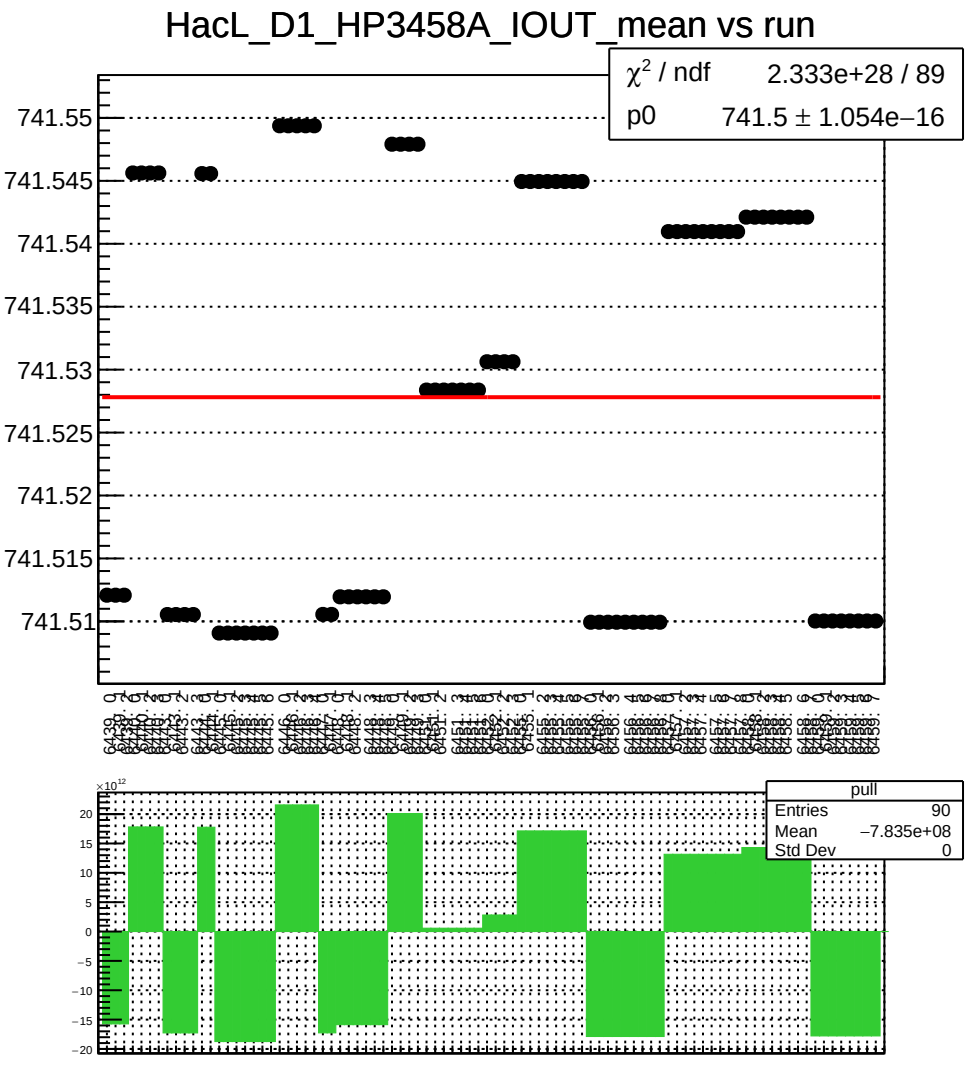

HALLA_dpp_mean vs run
×10⁻³
χ² / ndf 2.997e+23 / 89
p0 −6.666e−05 ± 1.054e−16
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
×10⁹
pull
Entries 90
Mean 2.492e+09
Std Dev 0
60
40
20
0
−20
−40
−60
pull1D
Entries 90
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

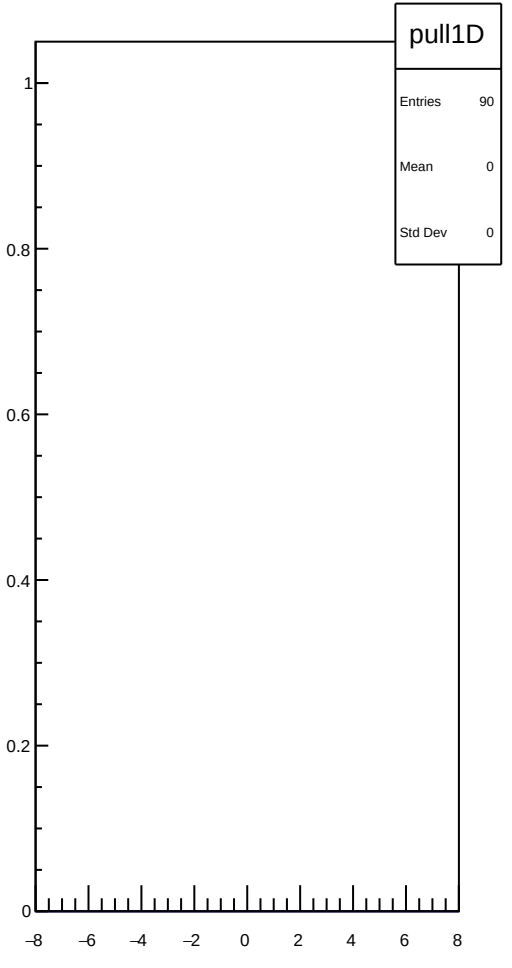

MQ171LM_mean vs run
×10⁻³
χ² / ndf 0.05308 / 89
p0 0.009375 ± 1.054e−16
9.375
pull
Entries 90
Mean 45
Std Dev 25.98

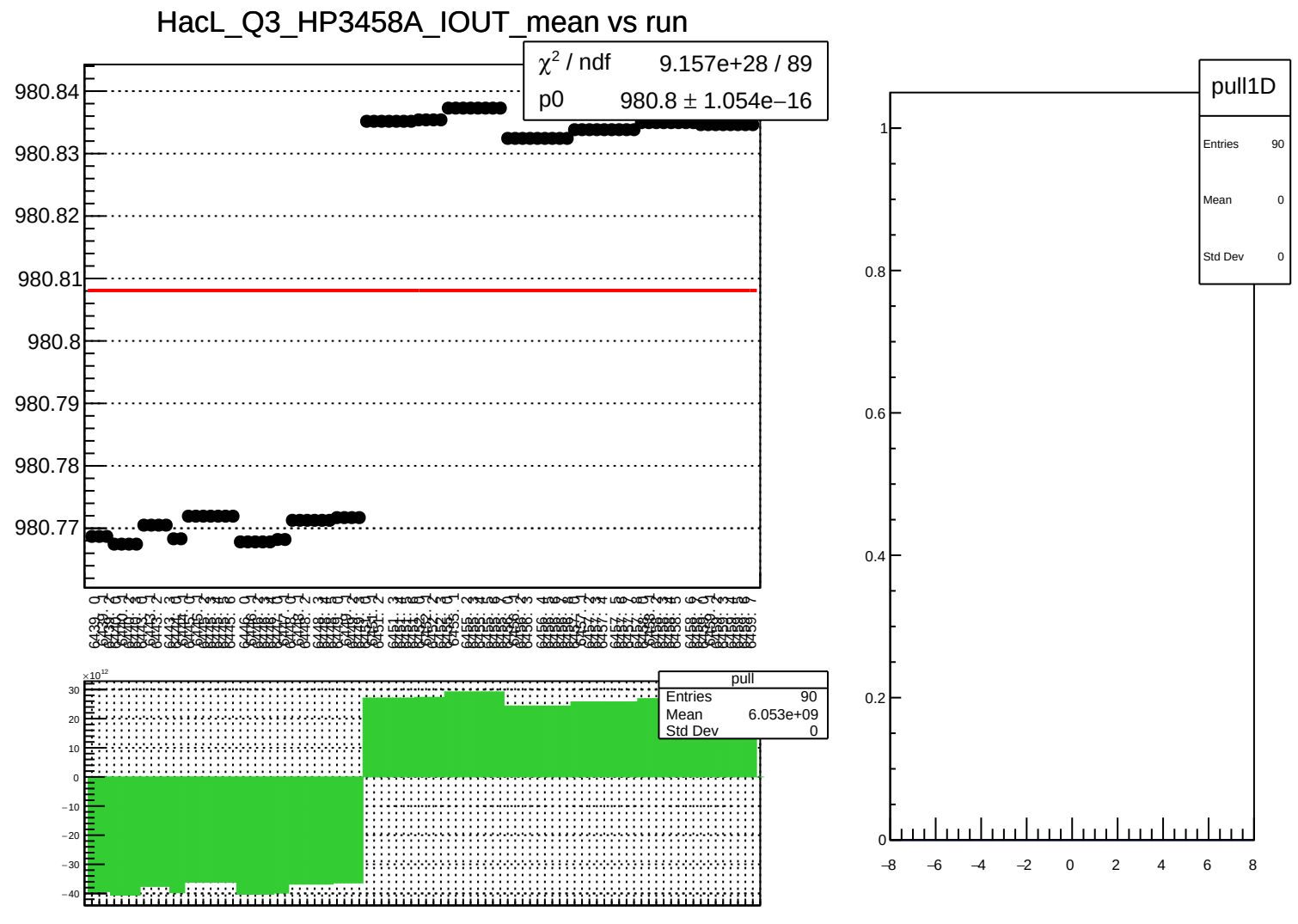

pull1D
Entries 90
Mean 0.02429
Std Dev1.187e−09

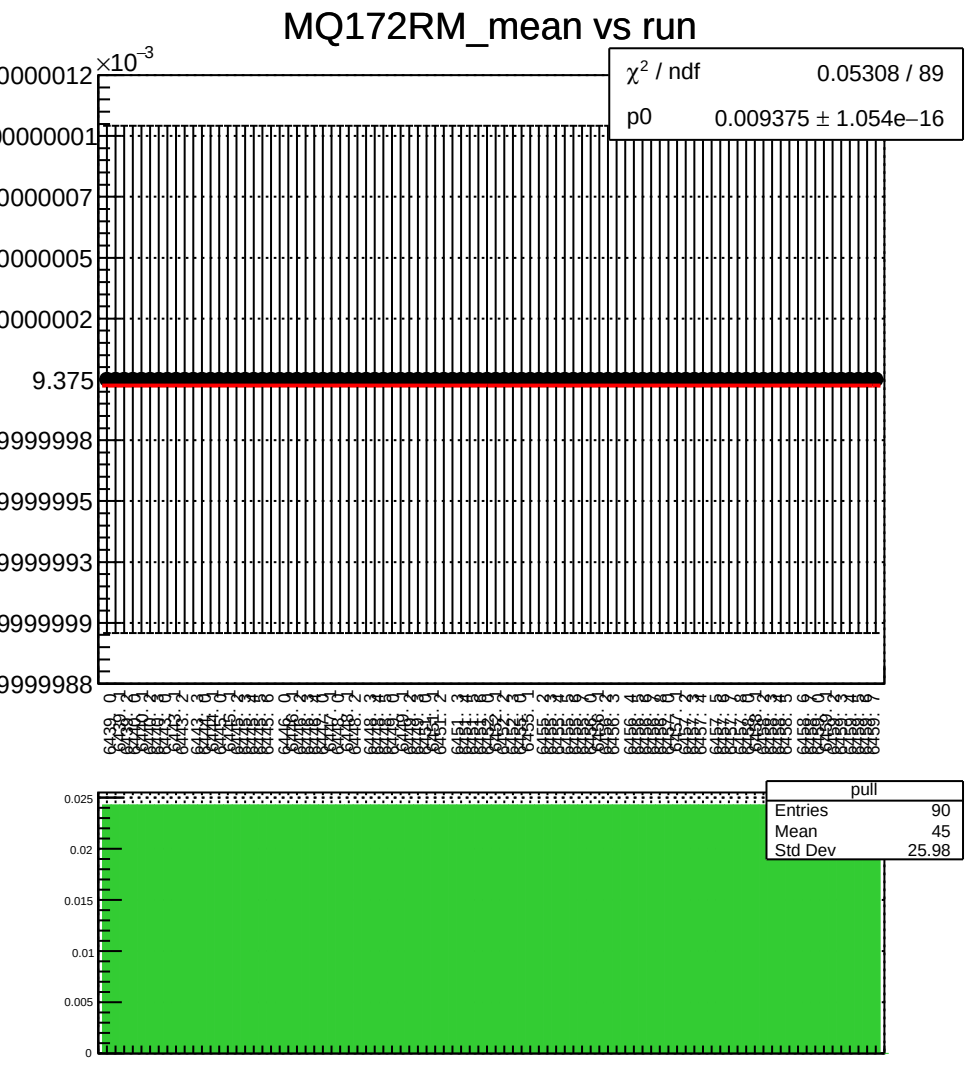

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 4.66e+26 / 89
p0 931.9 ± 1.054e−16
931.872
931.87
931.868
931.866
931.864
931.862
pull
Entries 90
Mean −4.132e+10
Std Dev 0
×10⁹
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000

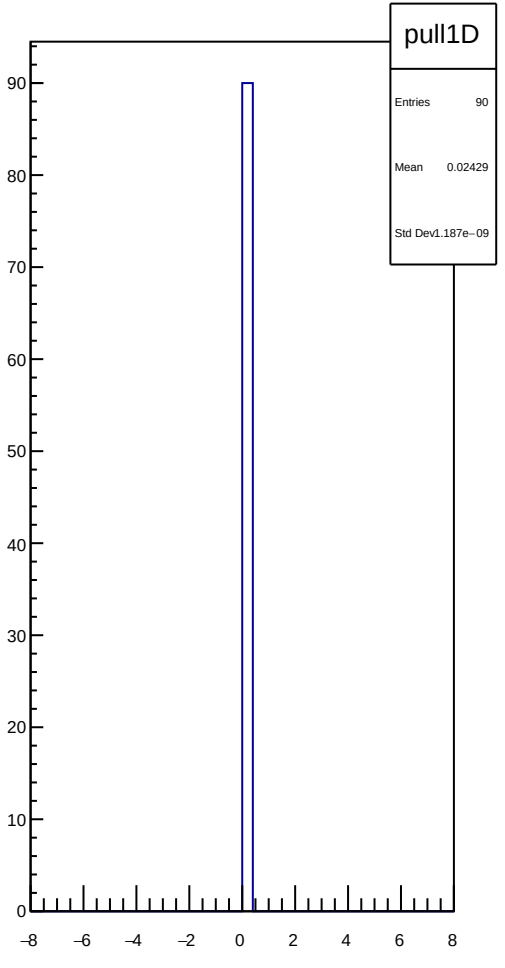

pull1D
Entries 90
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

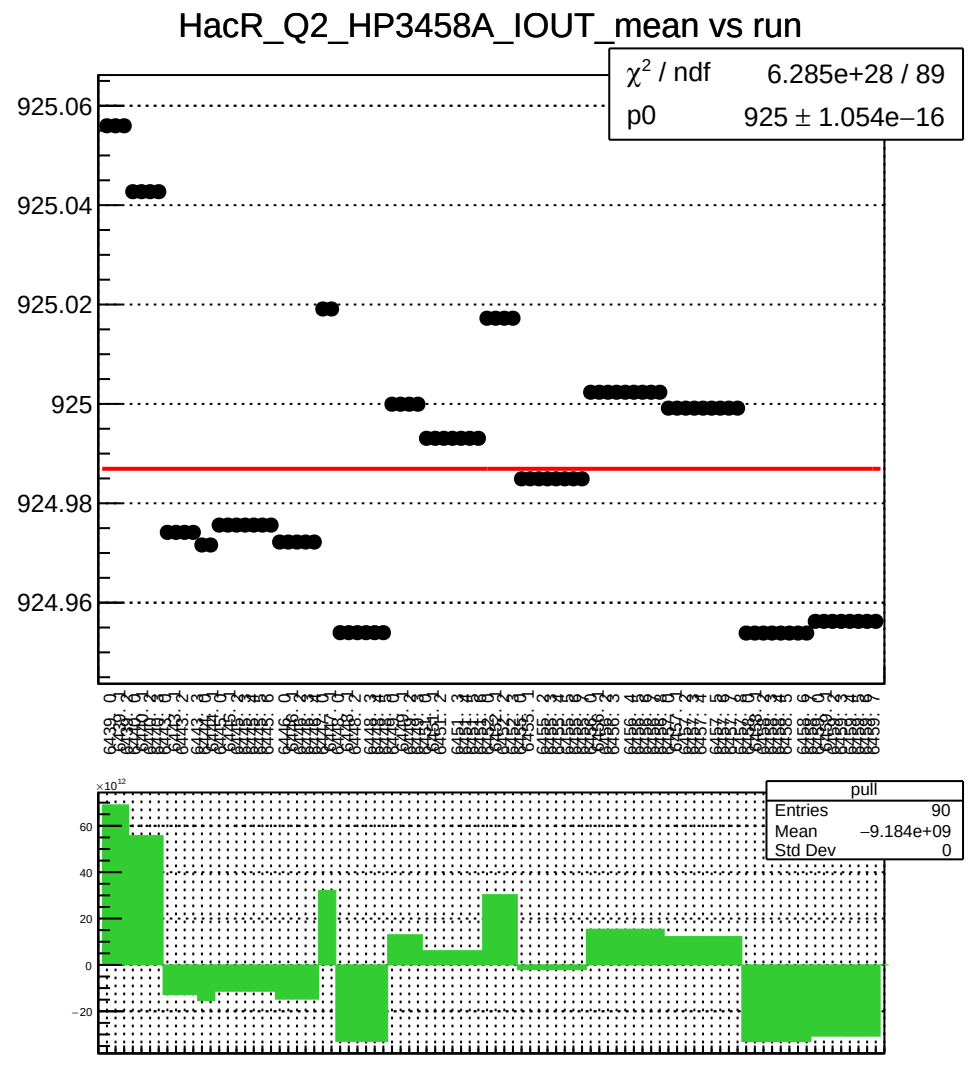

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 2.333e+28 / 89
p0 741.5 ± 1.054e−16
741.55
741.545
741.54
741.535
741.53
741.525
741.52
741.515
741.51
pull
Entries 90
Mean −7.835e+08
Std Dev 0
×10¹²
20
15
10
5
0
−5
−10
−15
−20

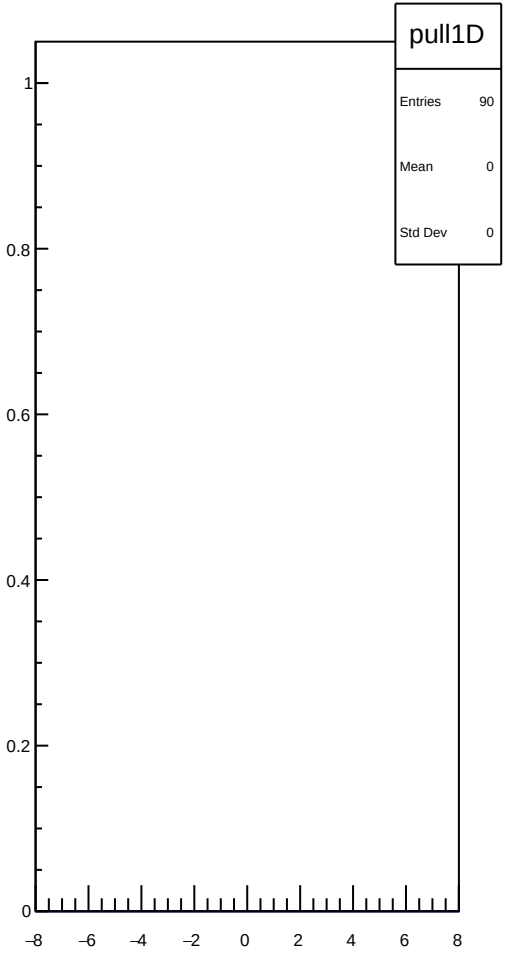

pull1D
Entries 90
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

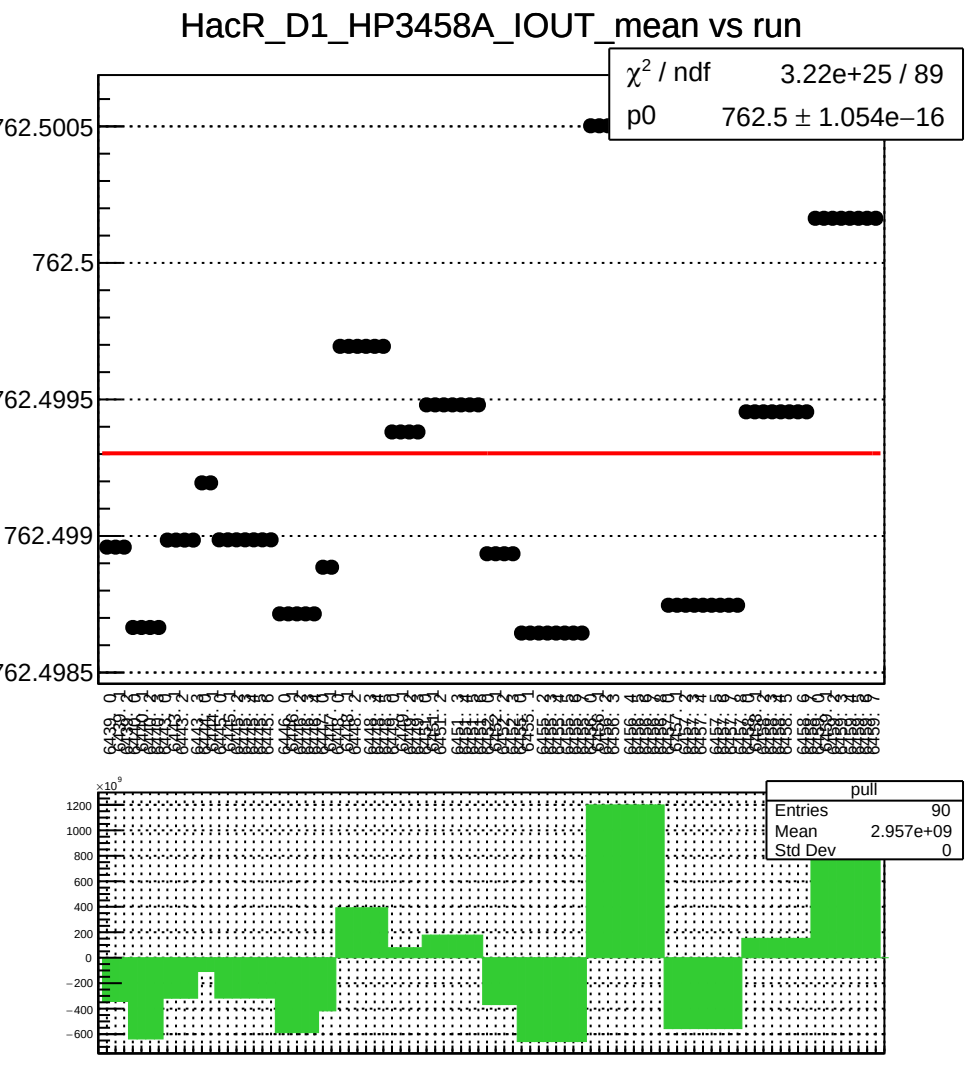

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 9.157e+28 / 89
p0 980.8 ± 1.054e−16
980.84
980.83
980.82
980.81
980.8
980.79
980.78
980.77
pull
Entries 90
Mean 6.053e+09
Std Dev 0
×10¹²
30
20
10
0
−10
−20
−30
−40
pull1D
Entries 90
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

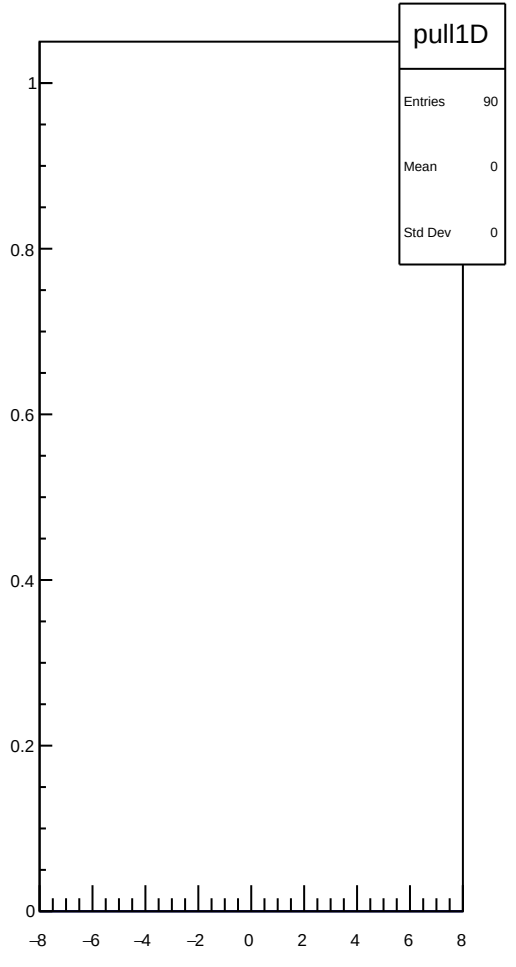

MQ172RM_mean vs run
χ² / ndf 0.05308 / 89
p0 0.009375 ± 1.054e−16
×10⁻³
pull
Entries 90
Mean 45
Std Dev 25.98

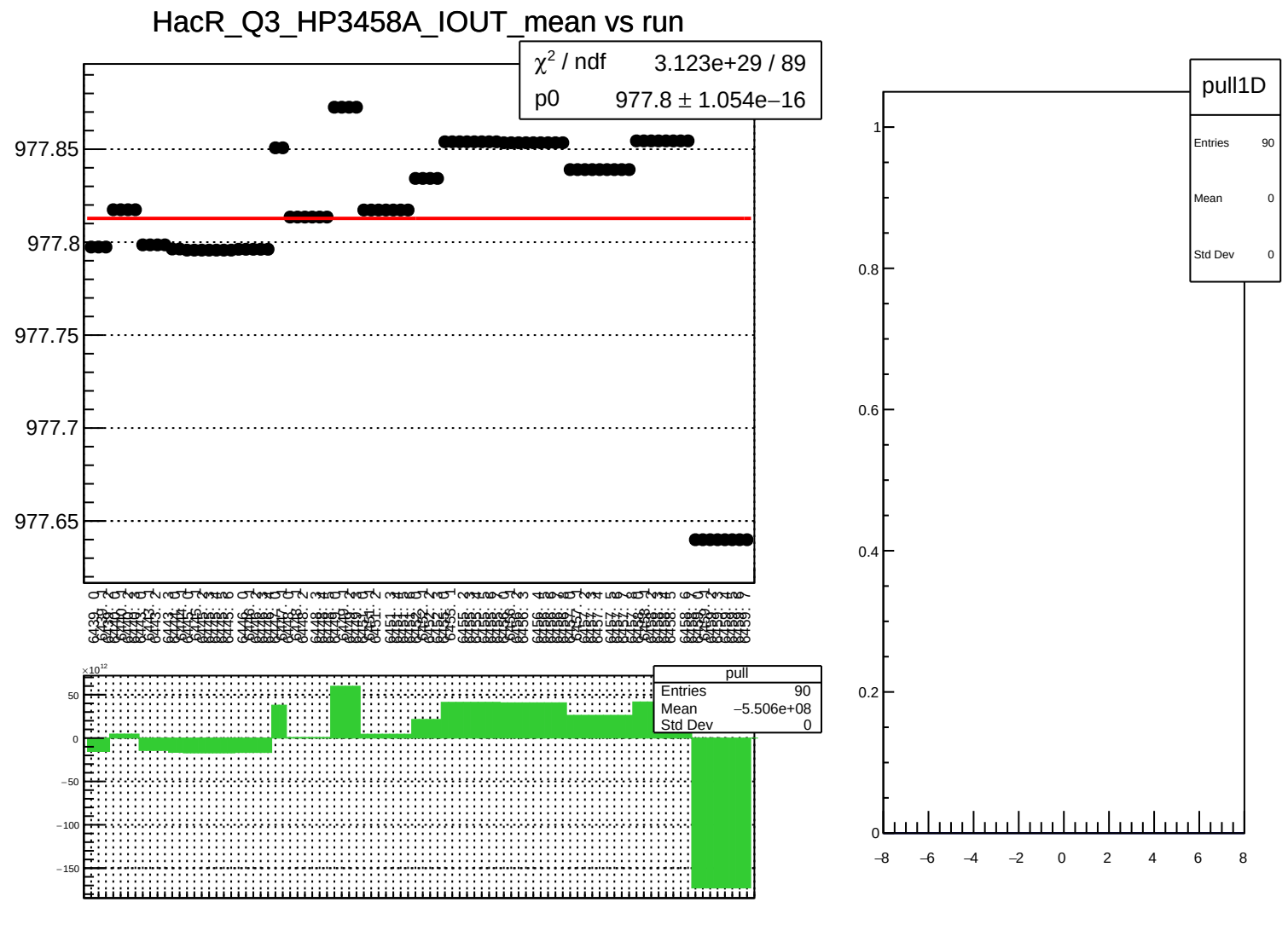

pull1D
Entries 90
Mean 0.02429
Std Dev1.187e−09

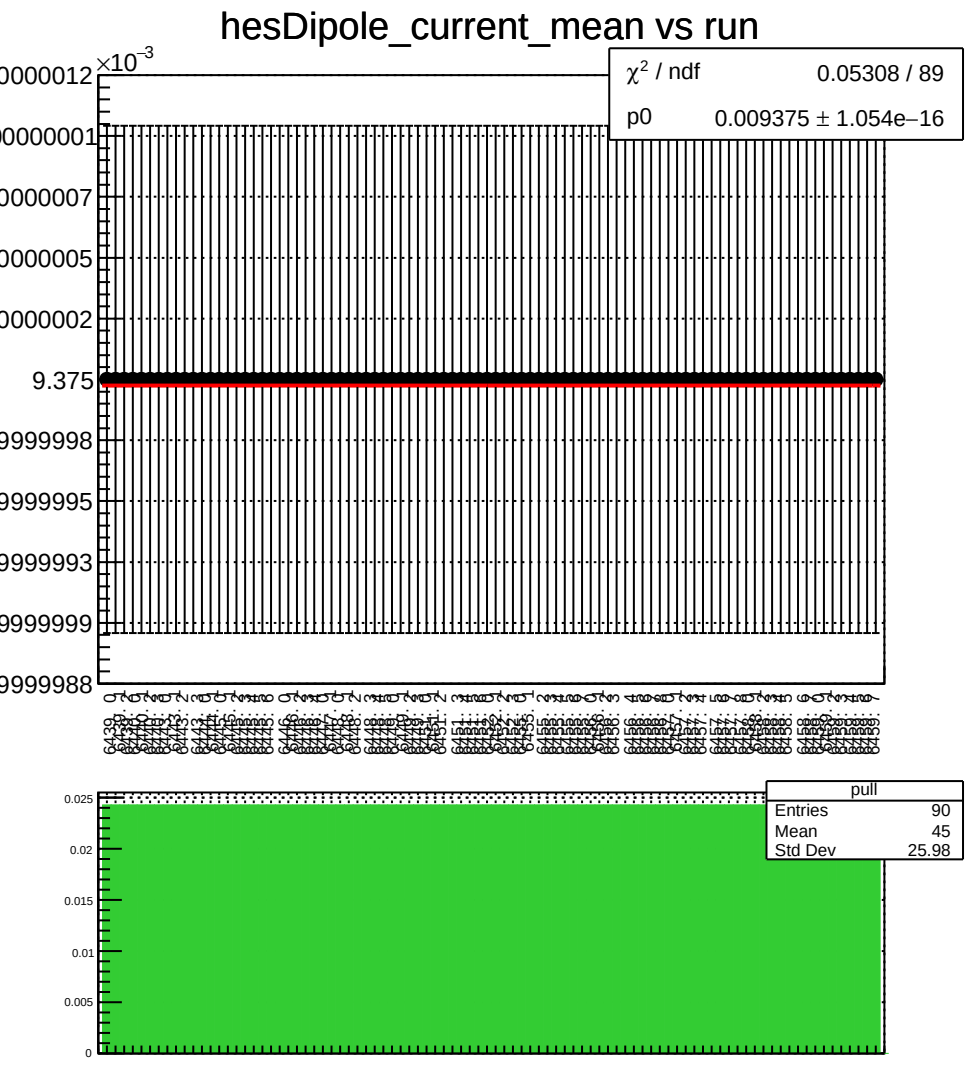

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 6.285e+28 / 89
p0 925 ± 1.054e−16
925.06
925.04
925.02
925
924.98
924.96
pull
Entries 90
Mean −9.184e+09
Std Dev 0
×10¹²
60
40
20
0
−20

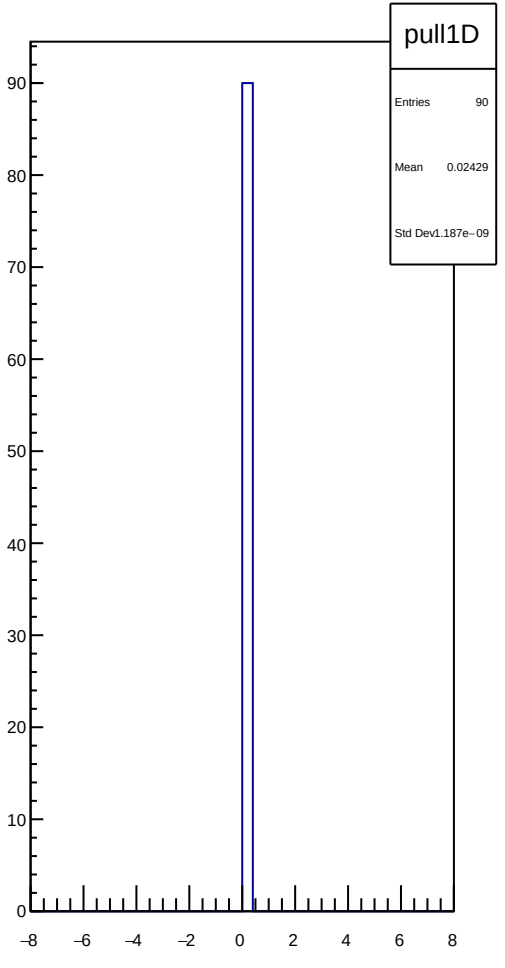

pull1D
Entries 90
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

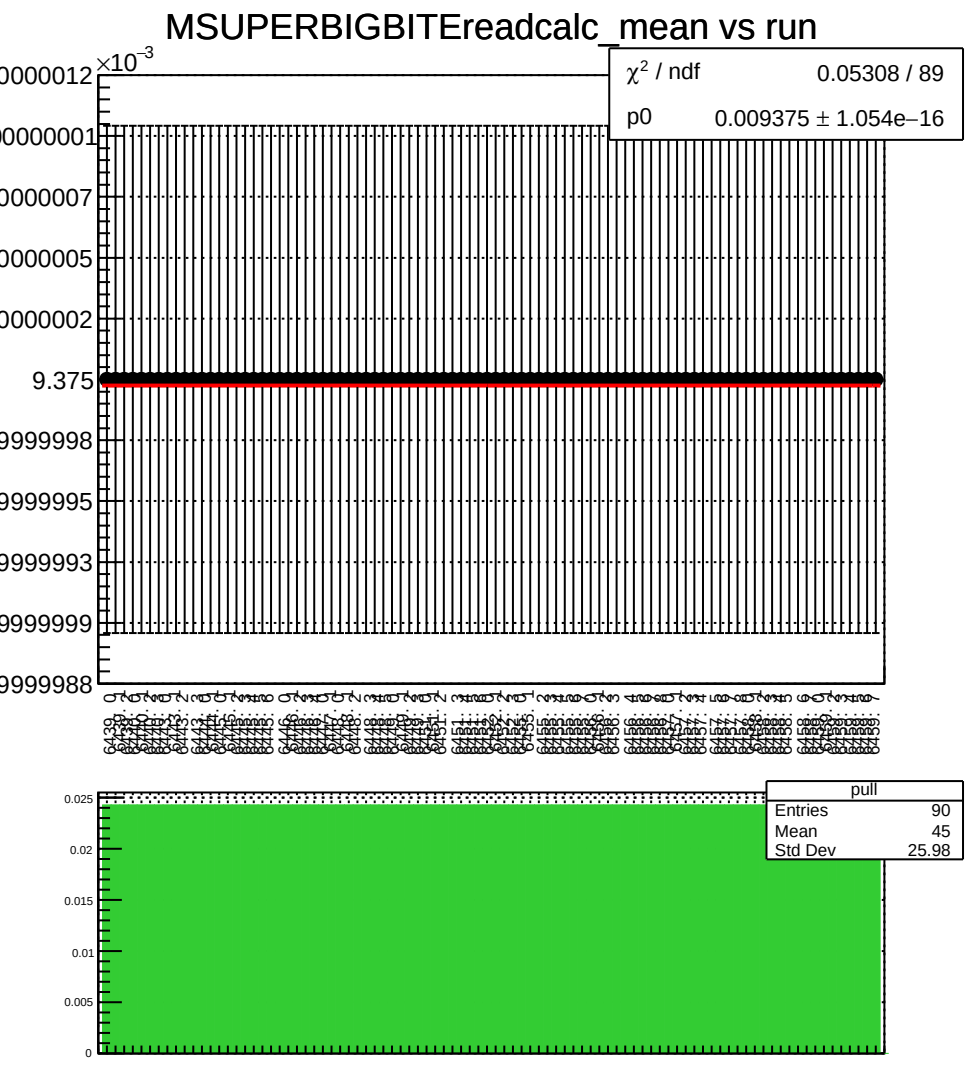

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 3.22e+25 / 89
p0 762.5 ± 1.054e−16
762.5005
762.5
762.4995
762.499
762.4985
pull
Entries 90
Mean 2.957e+09
Std Dev 0
×10⁹
1200
1000
800
600
400
200
0
−200
−400
−600

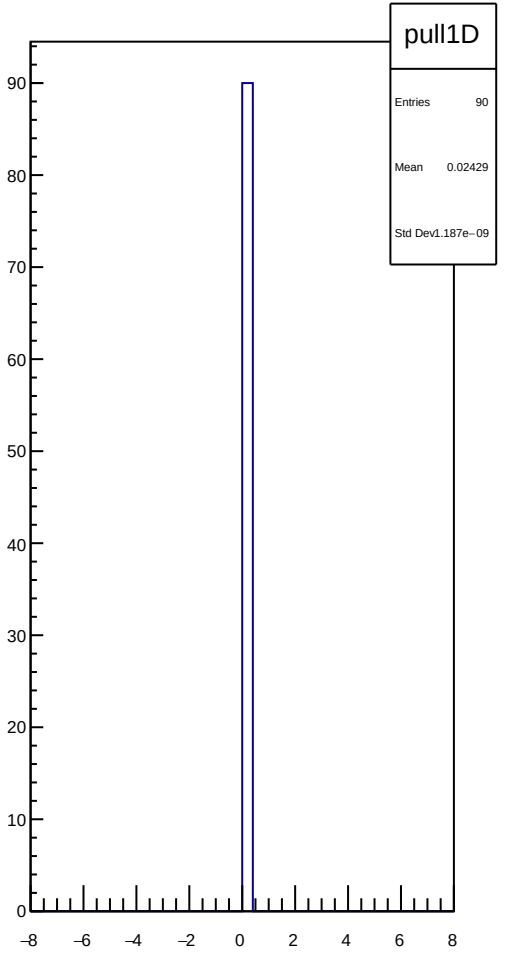

pull1D
Entries 90
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

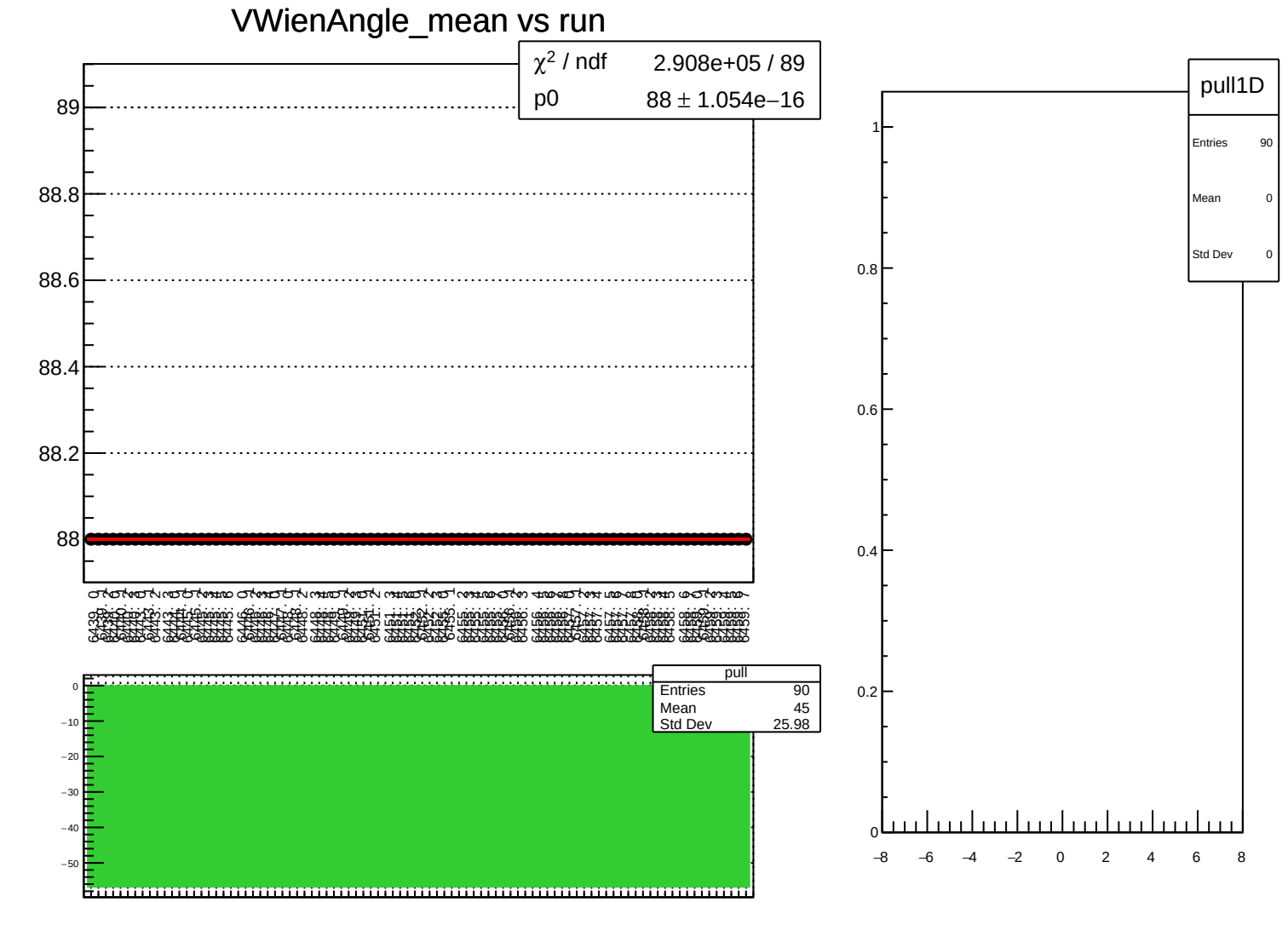

HacR_Q3_HP3458A_IOUT_mean vs run
χ^2 / ndf 3.123e+29 / 89
p0 977.8 ± 1.054e−16
977.85
977.8
977.75
977.7
977.65
pull
Entries 90
Mean −5.506e+08
Std Dev 0
×10^12
50
0
−50
−100
−150
pull1D
Entries 90
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

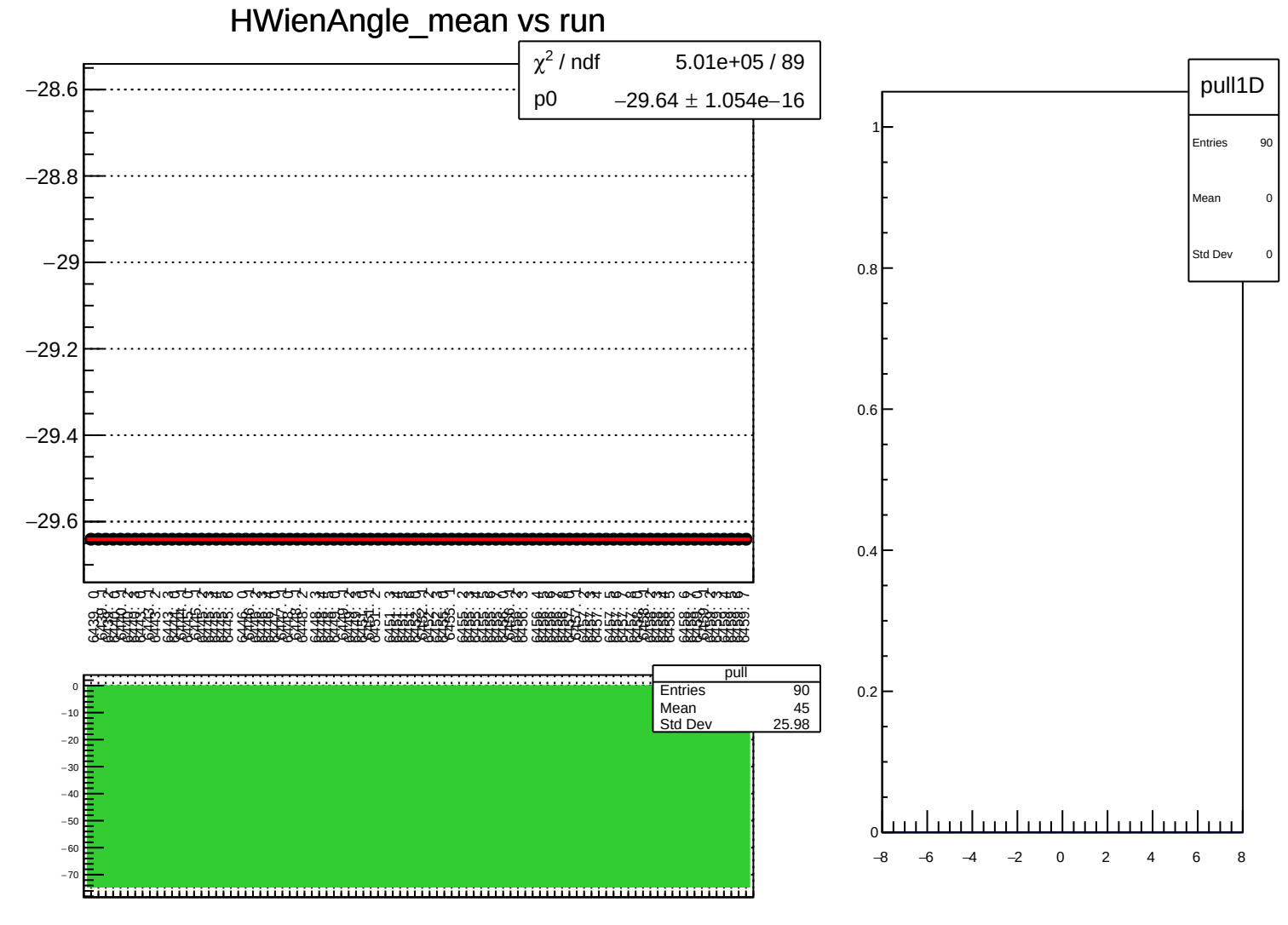

hesDipole_current_mean vs run
χ² / ndf 0.05308 / 89
p0 0.009375 ± 1.054e−16
×10⁻³
pull
Entries 90
Mean 45
Std Dev 25.98

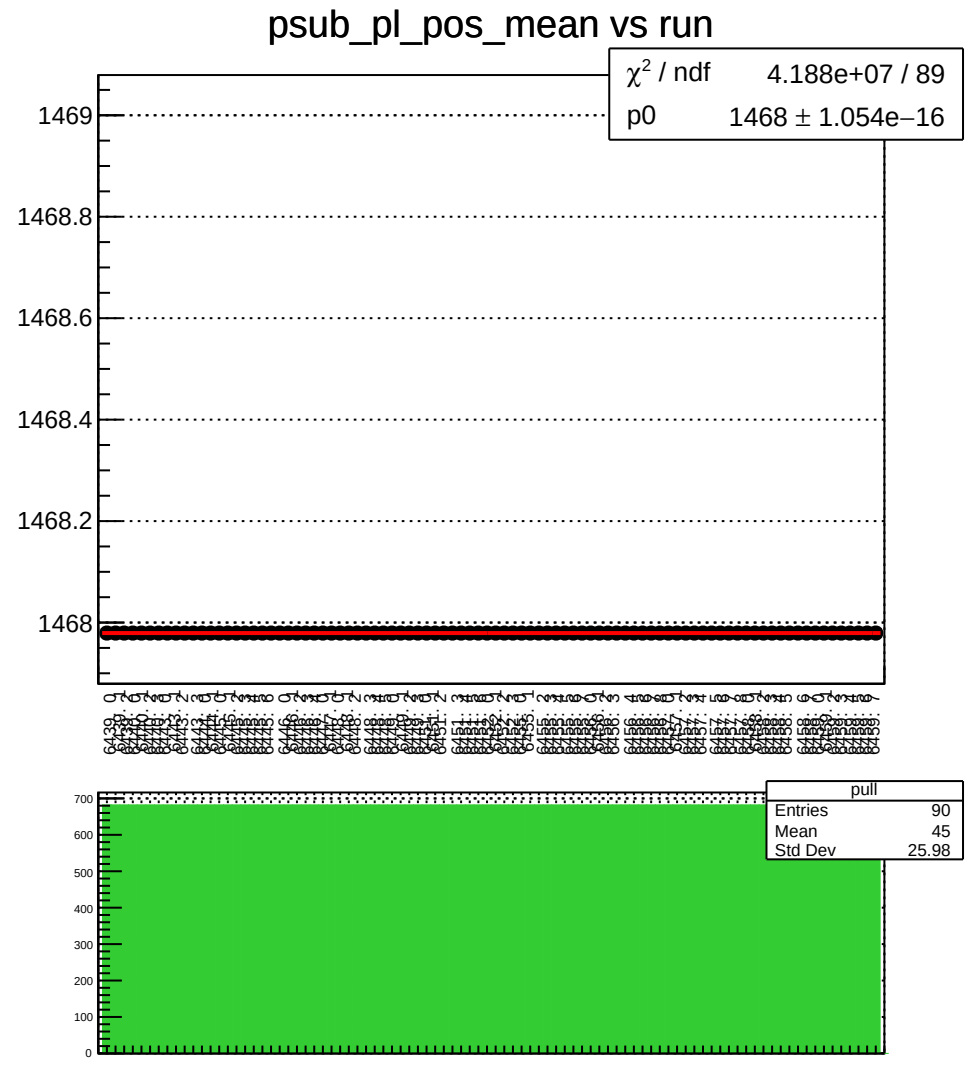

pull1D
Entries 90
Mean 0.02429
Std Dev1.187e−09

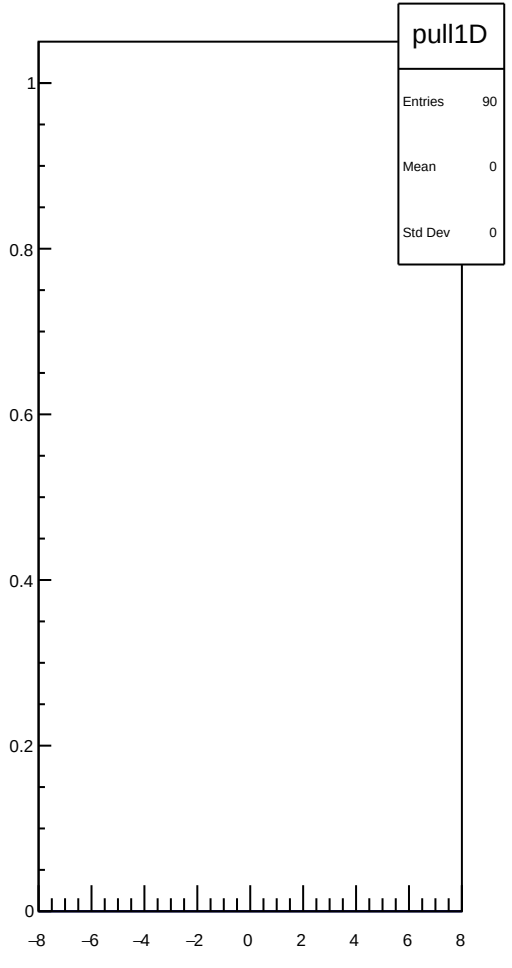

MSUPERBIGBITEreadcalc_mean vs run
χ² / ndf 0.05308 / 89
p0 0.009375 ± 1.054e−16
×10⁻³
pull
Entries 90
Mean 45
Std Dev 25.98

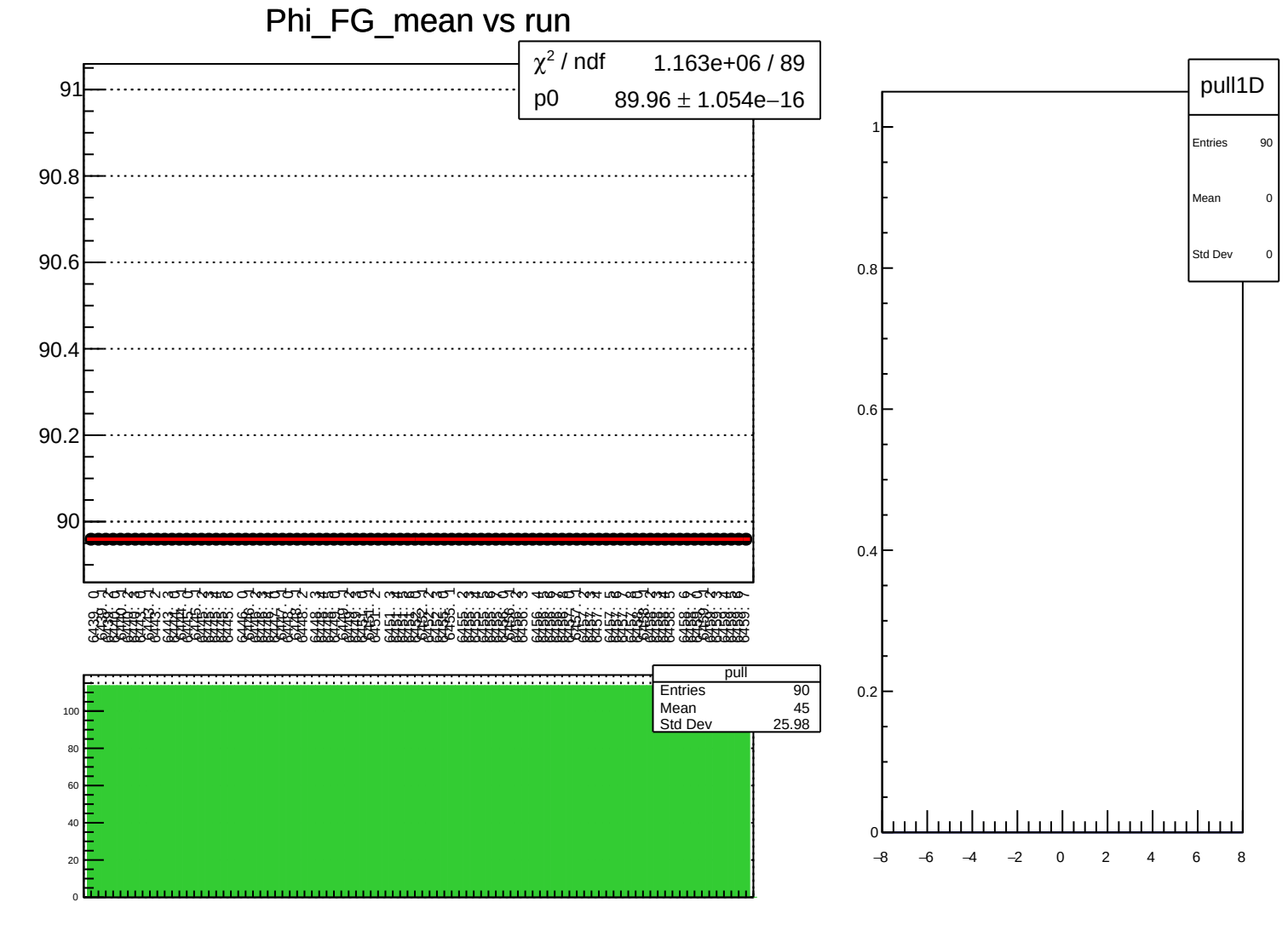

pull1D
Entries 90
Mean 0.02429
Std Dev1.187e−09

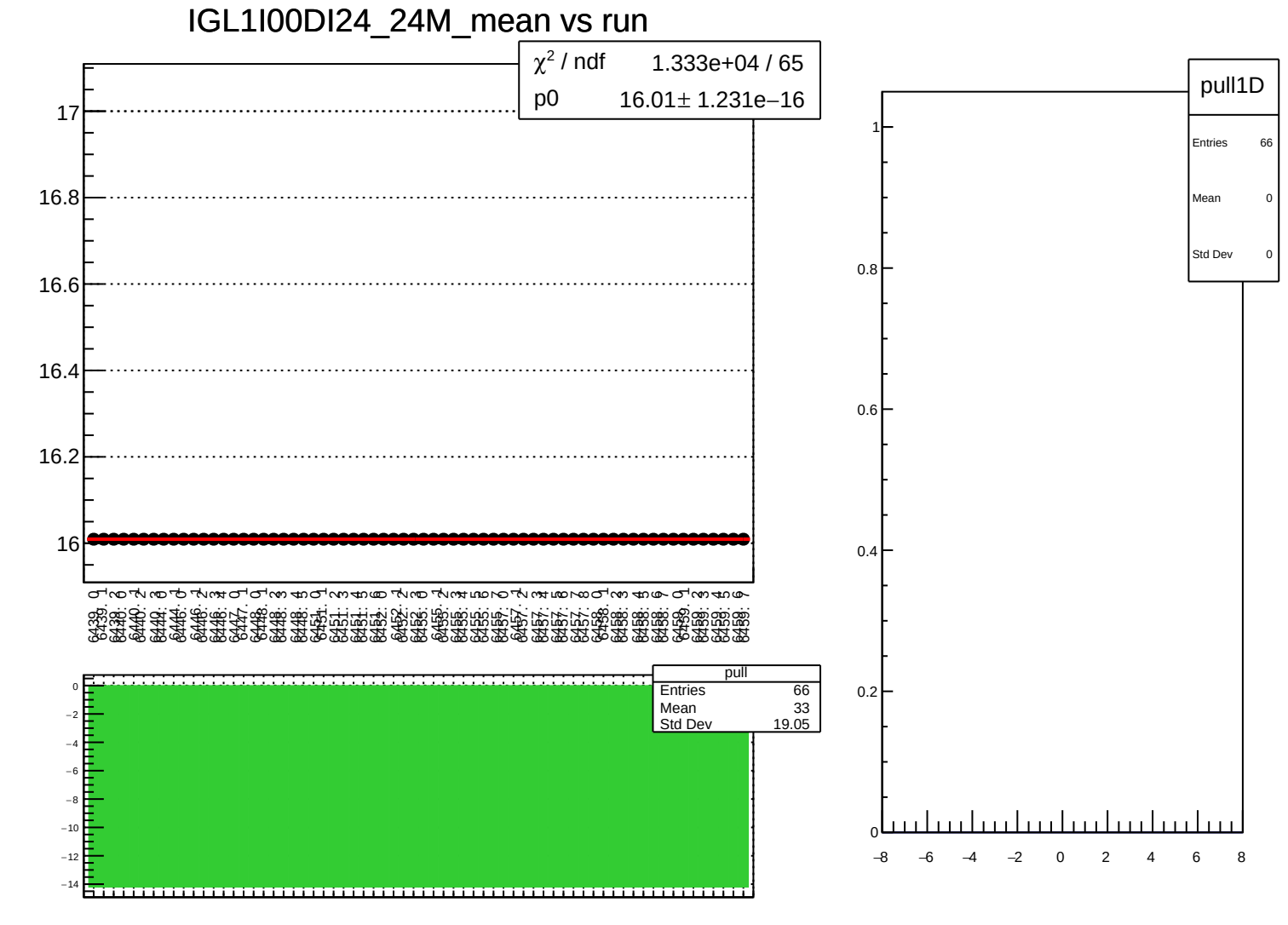

VWienAngle_mean vs run
χ² / ndf 2.908e+05 / 89
p0 88 ± 1.054e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 90
Mean 45
Std Dev 25.98
0
−10
−20
−30
−40
−50
pull1D
Entries 90
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

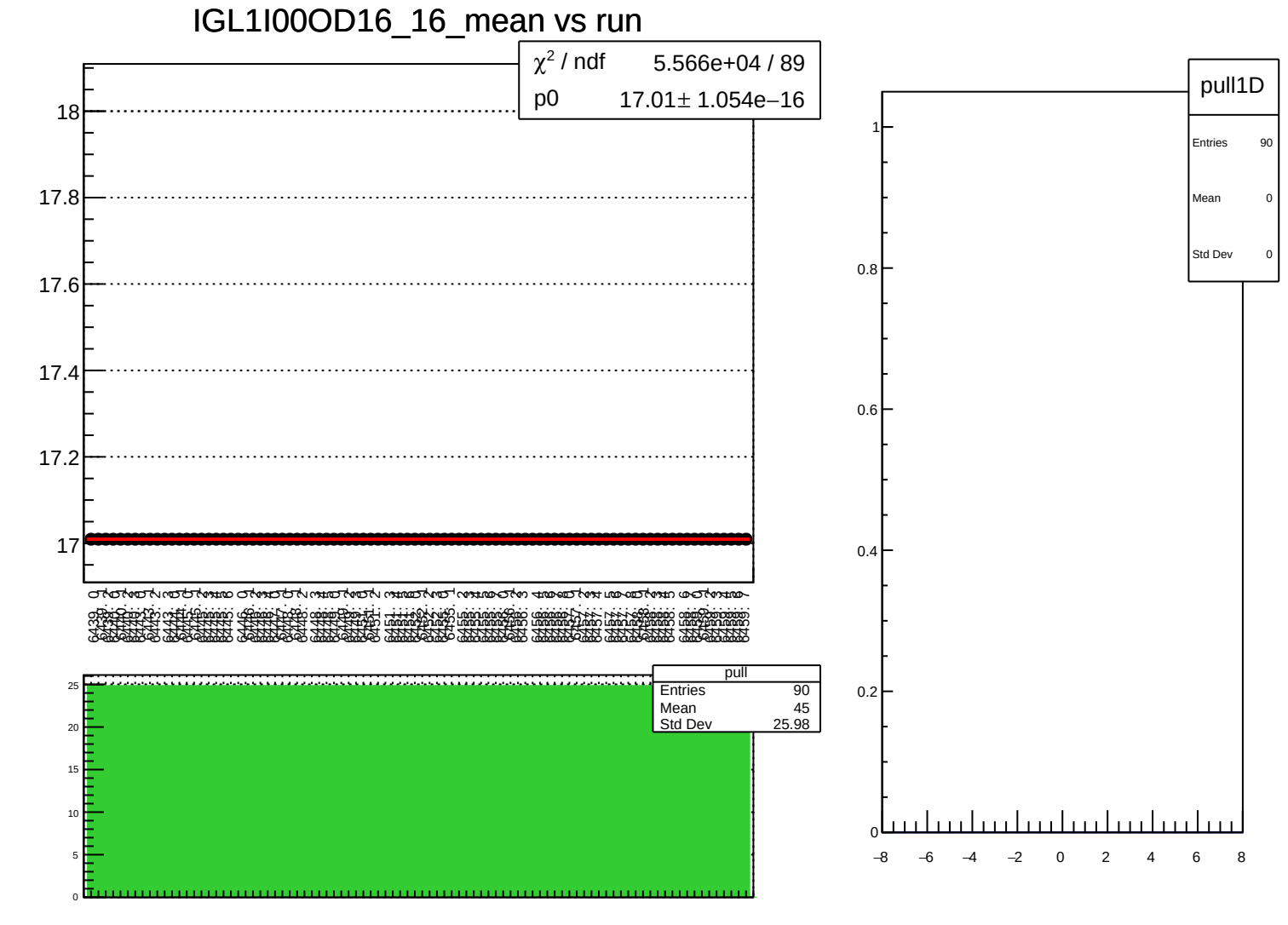

HWienAngle_mean vs run
χ² / ndf 5.01e+05 / 89
p0 −29.64 ± 1.054e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 90
Mean 45
Std Dev 25.98
0
−10
−20
−30
−40
−50
−60
−70
pull1D
Entries 90
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

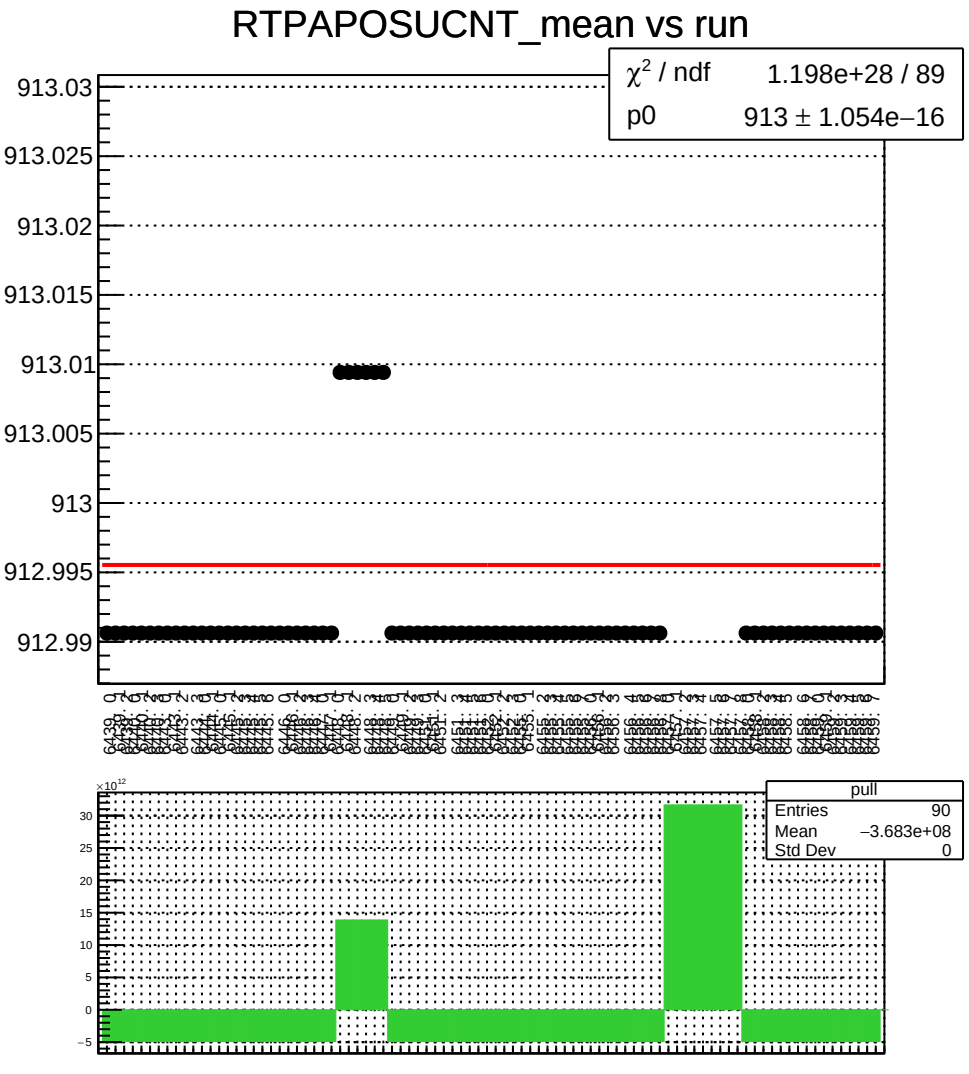

psub_pl_pos_mean vs run
χ² / ndf 4.188e+07 / 89
p0 1468 ± 1.054e−16
1469
1468.8
1468.6
1468.4
1468.2
1468
pull
Entries 90
Mean 45
Std Dev 25.98
700
600
500
400
300
200
100
0

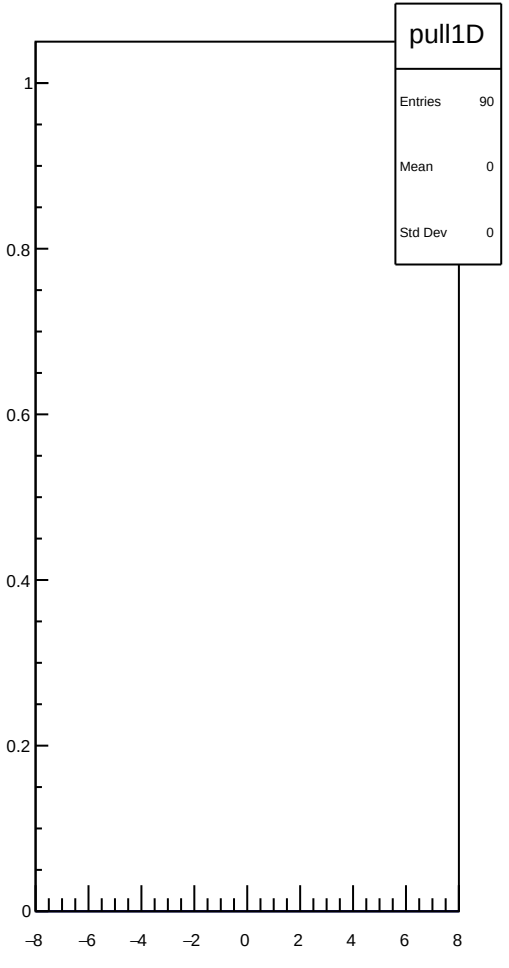

pull1D
Entries 90
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

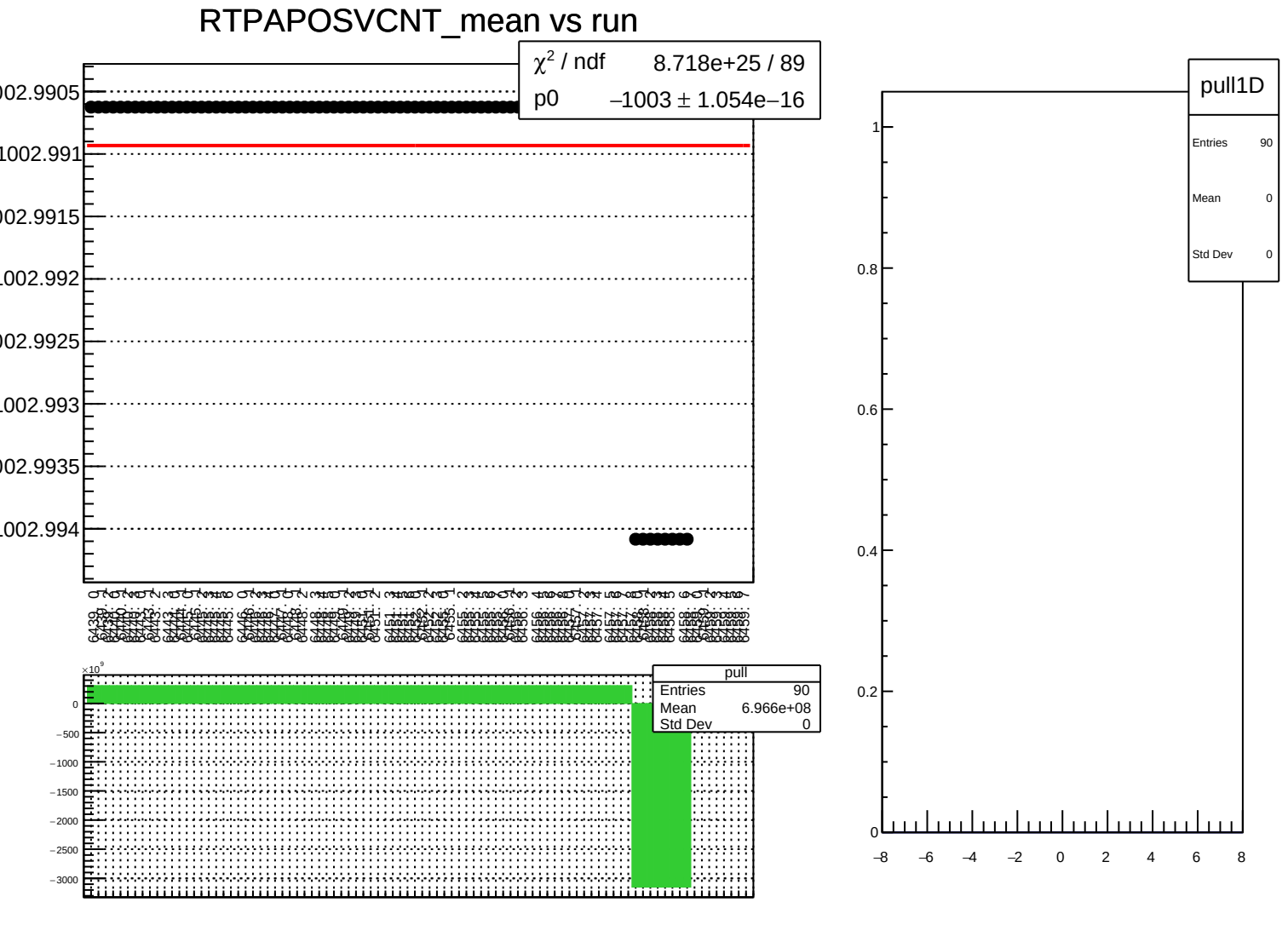

Phi_FG_mean vs run
χ² / ndf 1.163e+06 / 89
p0 89.96 ± 1.054e−16
91
90.8
90.6
90.4
90.2
90
pull
Entries 90
Mean 45
Std Dev 25.98
100
80
60
40
20
0
pull1D
Entries 90
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

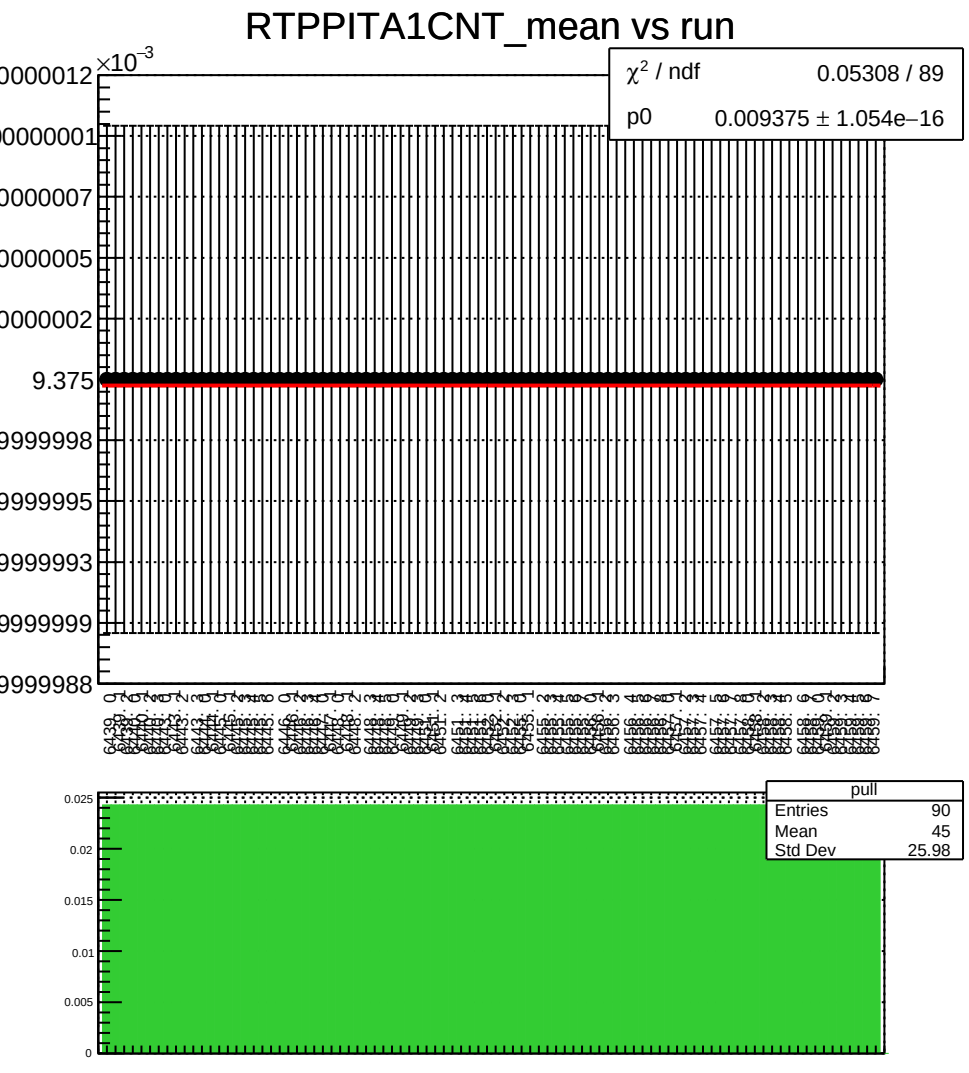

IGL1I00DI24_24M_mean vs run
χ² / ndf 1.333e+04 / 65
p0 16.01± 1.231e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 66
Mean 33
Std Dev 19.05
0
−2
−4
−6
−8
−10
−12
−14
pull1D
Entries 66
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

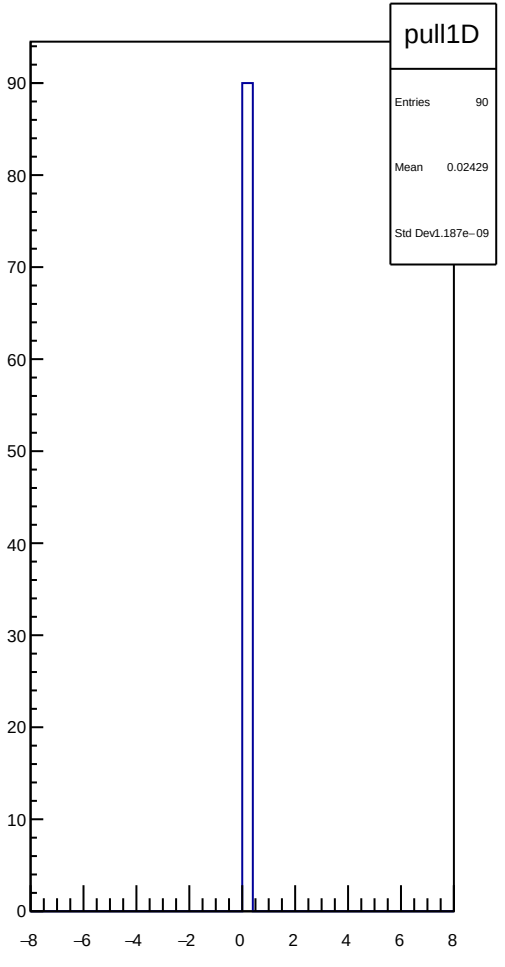

IGL1I00OD16_16_mean vs run
χ² / ndf 5.566e+04 / 89
p0 17.01± 1.054e−16
18
17.8
17.6
17.4
17.2
17
pull
Entries 90
Mean 45
Std Dev 25.98
25
20
15
10
5
0
pull1D
Entries 90
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

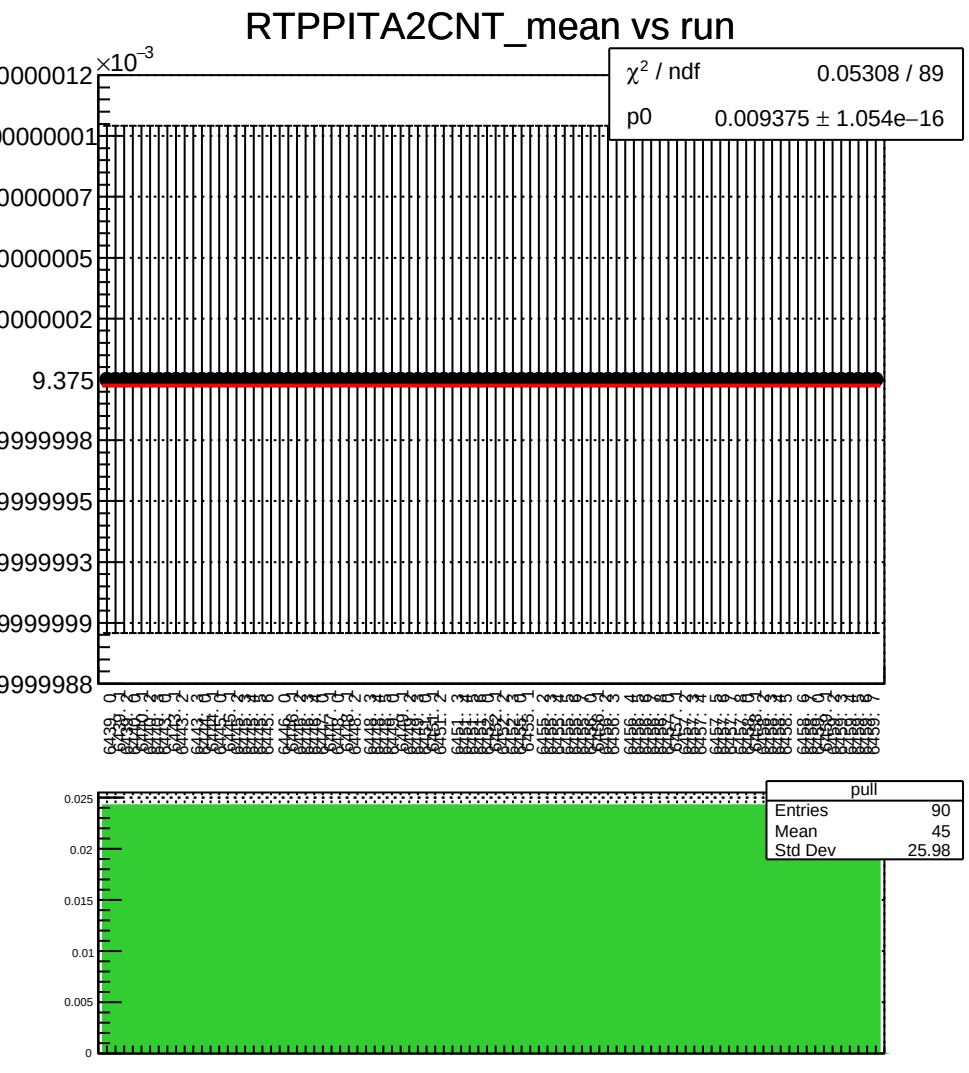

RTPAPOSUCNT_mean vs run
χ² / ndf 1.198e+28 / 89
p0 913 ± 1.054e−16
913.03
913.025
913.02
913.015
913.01
913.005
913
912.995
912.99
pull
Entries 90
Mean −3.683e+08
Std Dev 0
×10¹²
30
25
20
15
10
5
0
−5

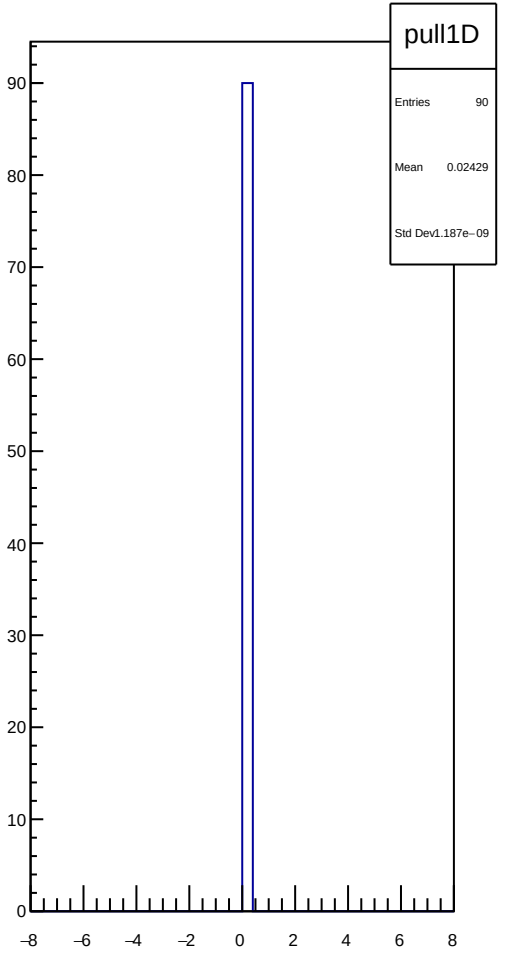

pull1D
Entries 90
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPAPOSVCNT_mean vs run
χ² / ndf 8.718e+25 / 89
p0 −1003 ± 1.054e−16
002.9905
1002.991
002.9915
1002.992
002.9925
1002.993
002.9935
1002.994
pull
Entries 90
Mean 6.966e+08
Std Dev 0
×10⁹
0
−500
−1000
−1500
−2000
−2500
−3000
pull1D
Entries 90
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
×10⁻³
χ² / ndf 0.05308 / 89
p0 0.009375 ± 1.054e−16
9.375
pull
Entries 90
Mean 45
Std Dev 25.98


pull1D
Entries 90
Mean 0.02429
Std Dev1.187e−09


RTPPITA2CNT_mean vs run
χ² / ndf 0.05308 / 89
p0 0.009375 ± 1.054e−16
×10⁻³
pull
Entries 90
Mean 45
Std Dev 25.98


pull1D
Entries 90
Mean 0.02429
Std Dev1.187e−09