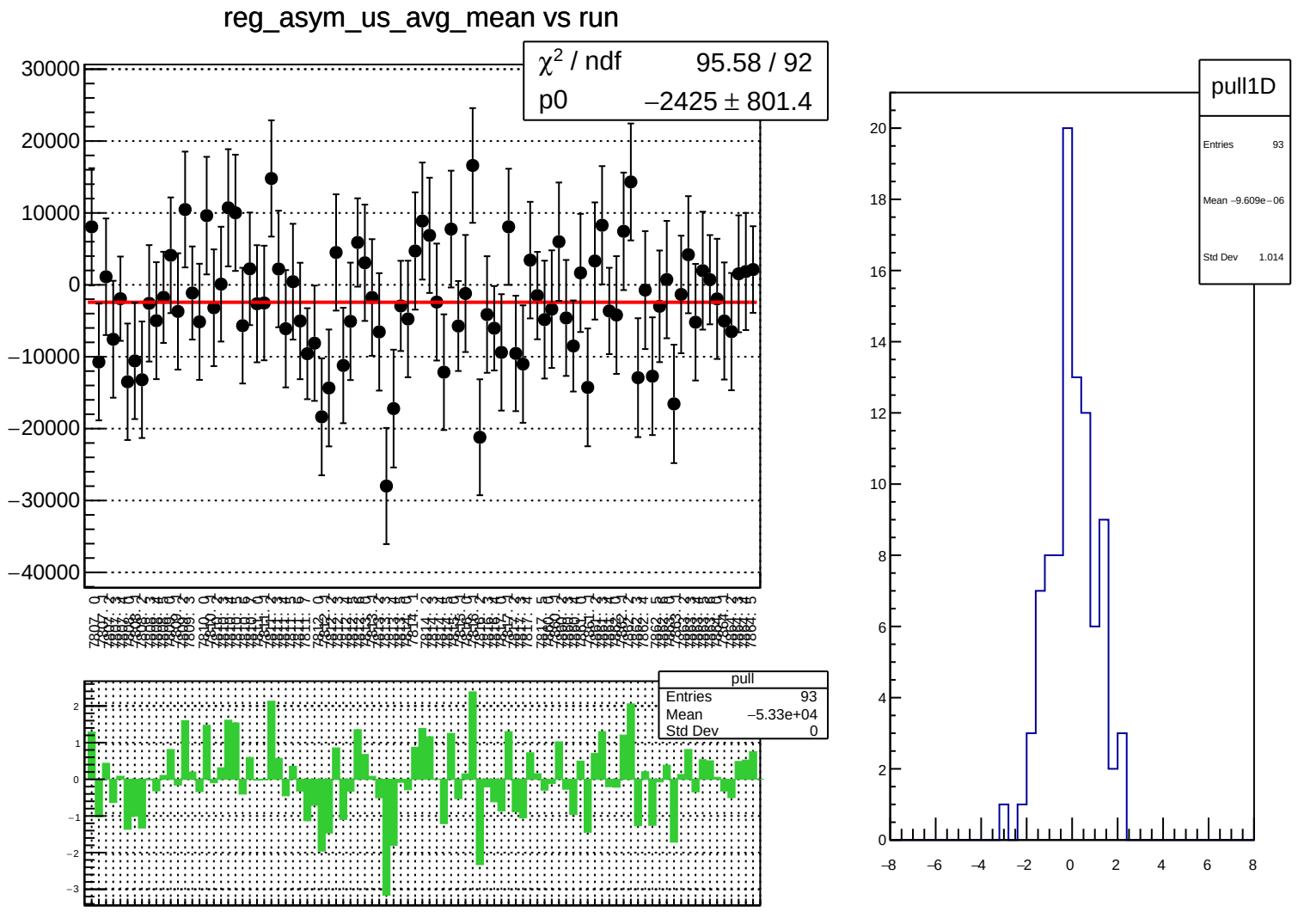
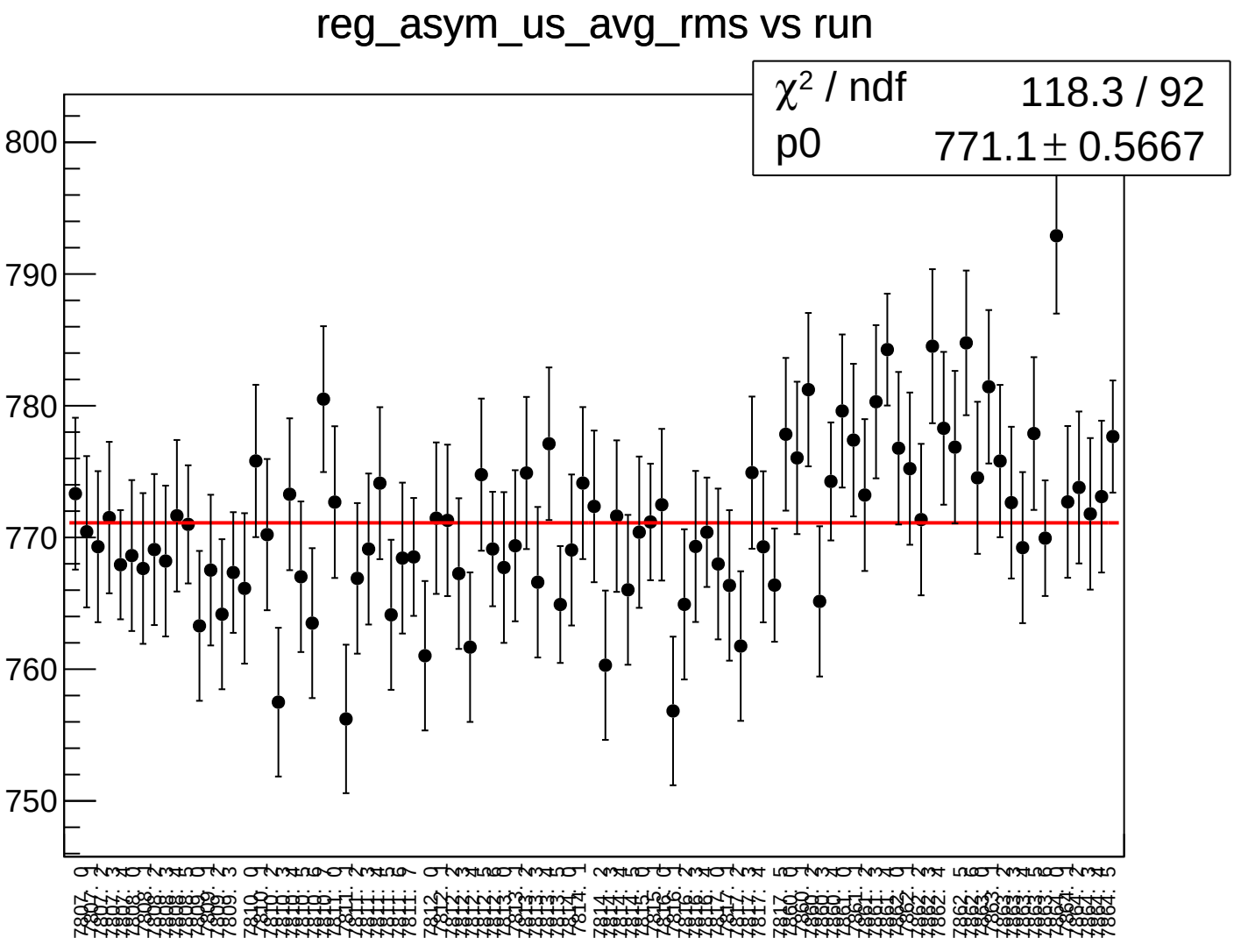
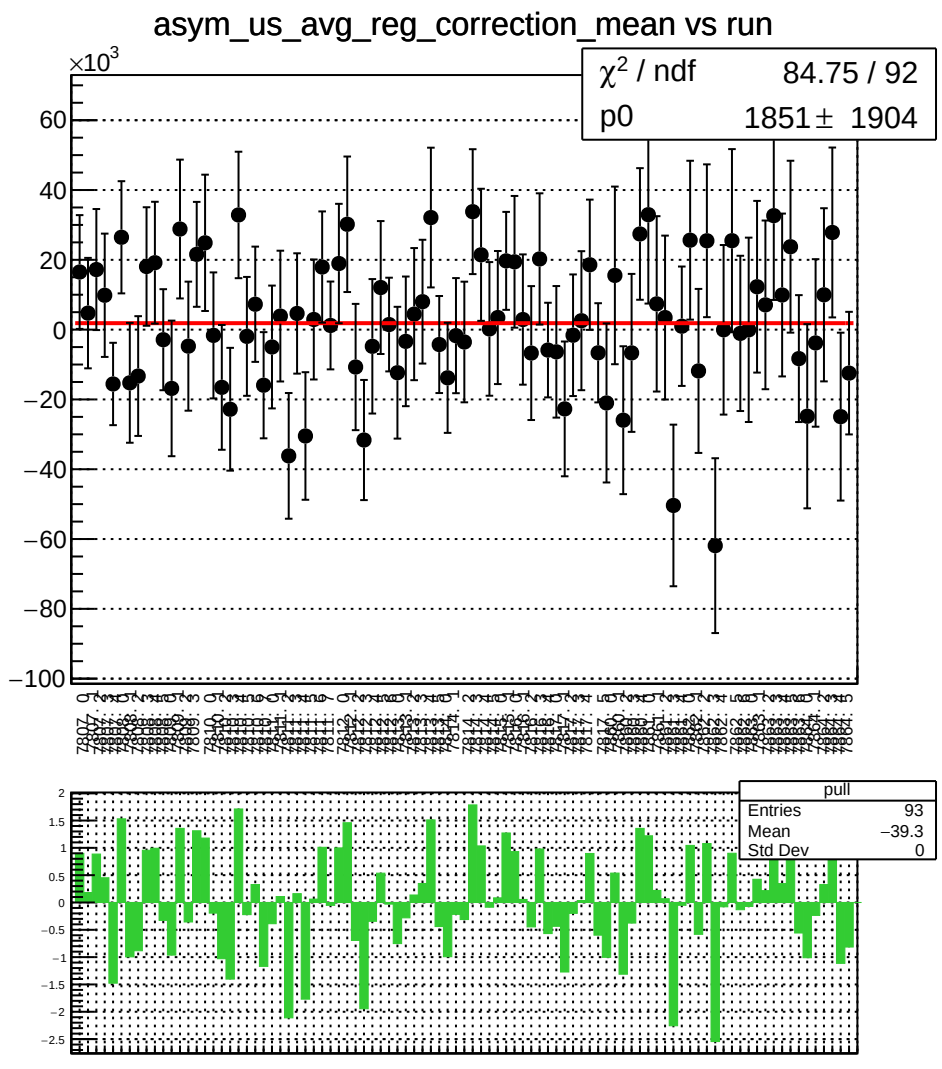
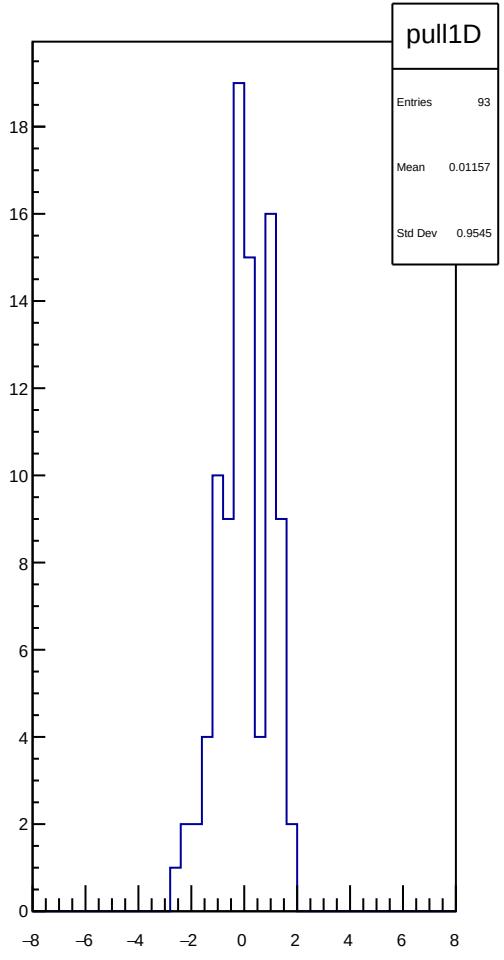
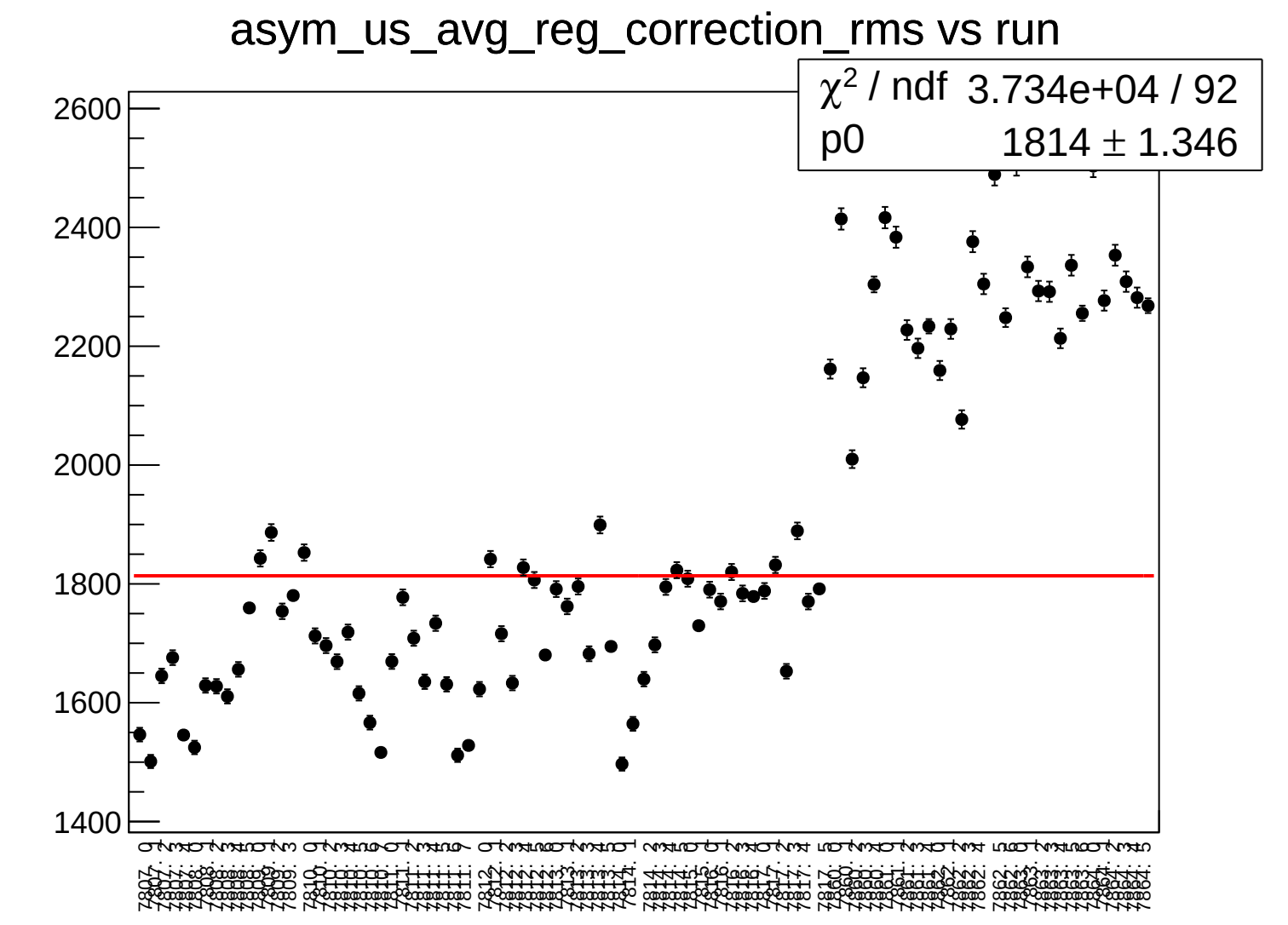
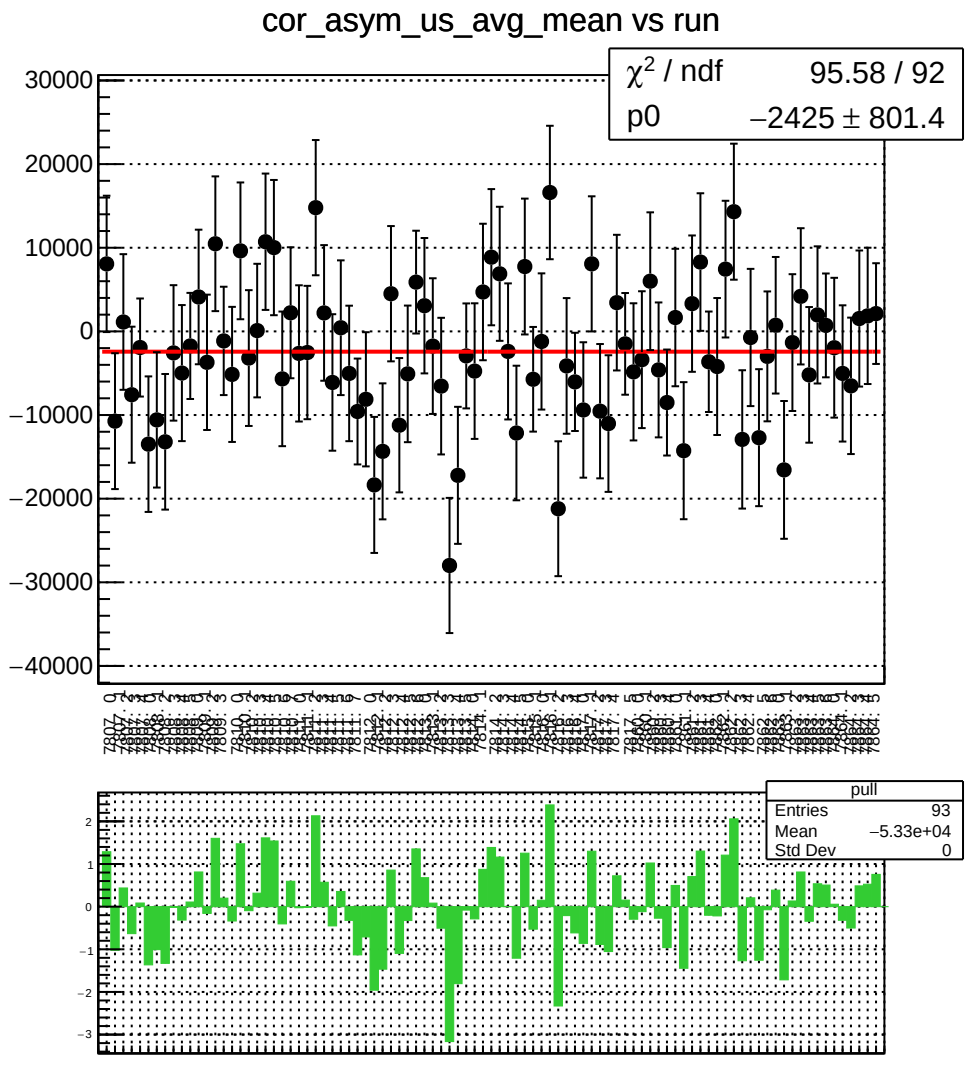

reg_asym_us_avg_mean vs run
χ² / ndf 95.58 / 92
p0 −2425 ± 801.4
pull
Entries 93
Mean −5.33e+04
Std Dev 0
pull1D
Entries 93
Mean −9.609e−06
Std Dev 1.014

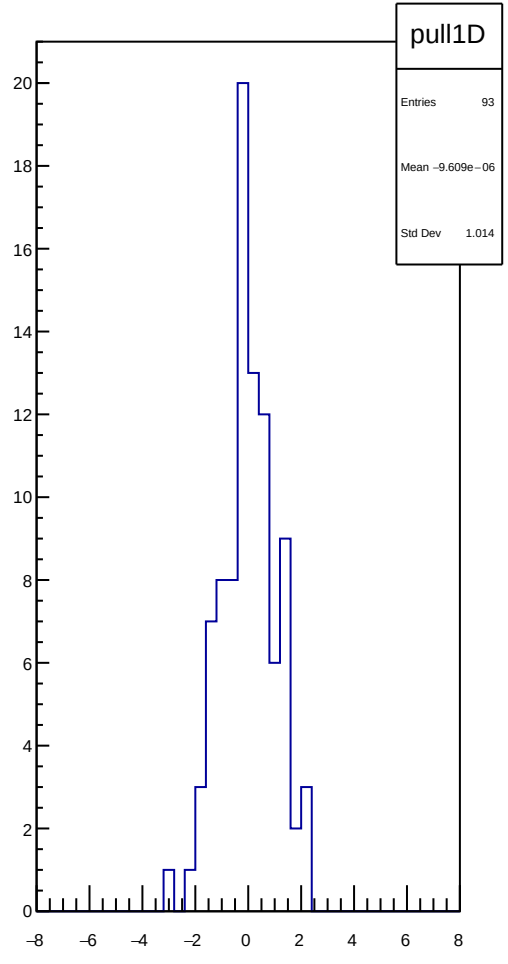

reg_asym_us_avg_rms vs run
χ² / ndf 118.3 / 92
p0 771.1 ± 0.5667
800
790
780
770
760
750

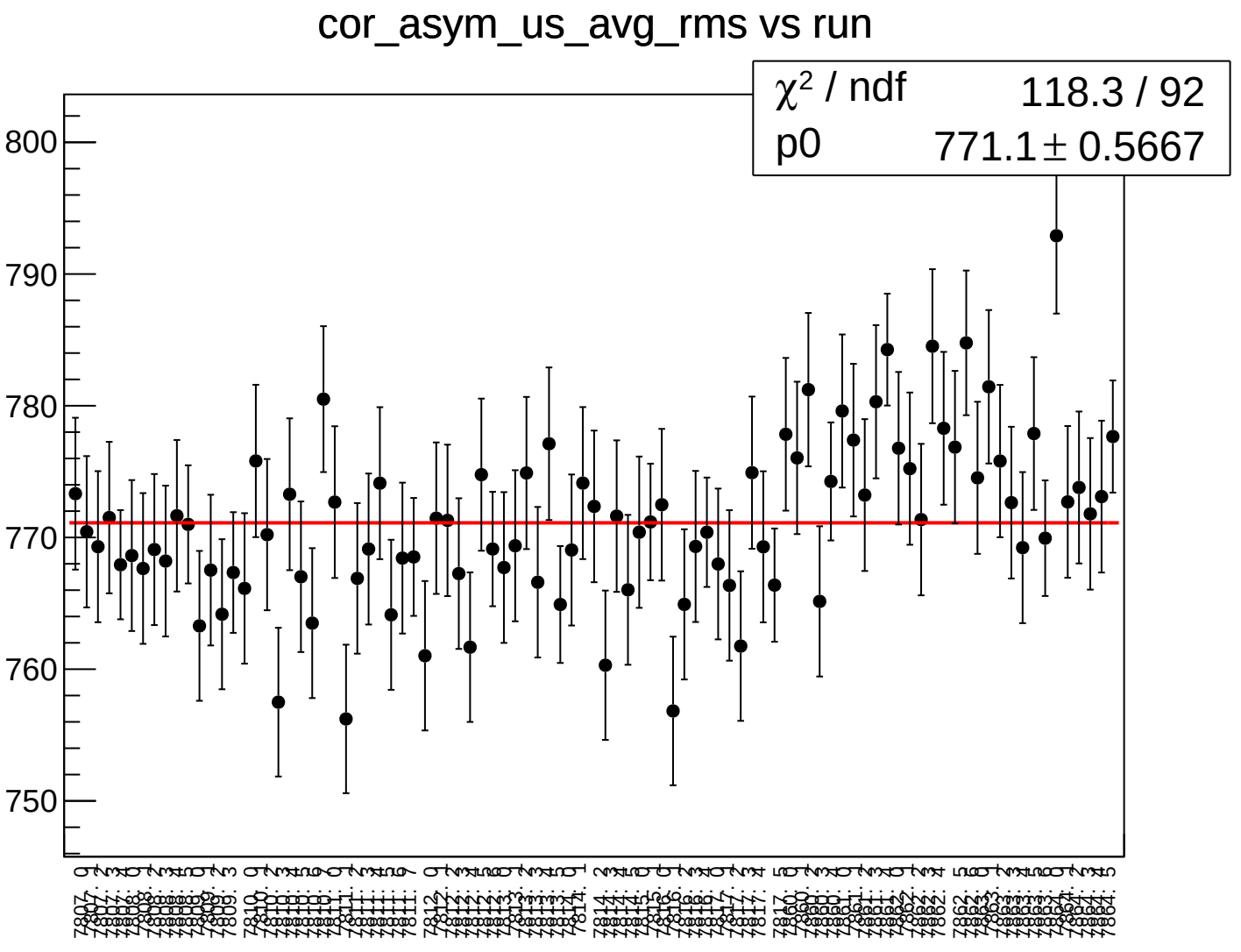

asym_us_avg_reg_correction_mean vs run
χ² / ndf 84.75 / 92
p0 1851 ± 1904
×10³
pull
Entries 93
Mean −39.3
Std Dev 0

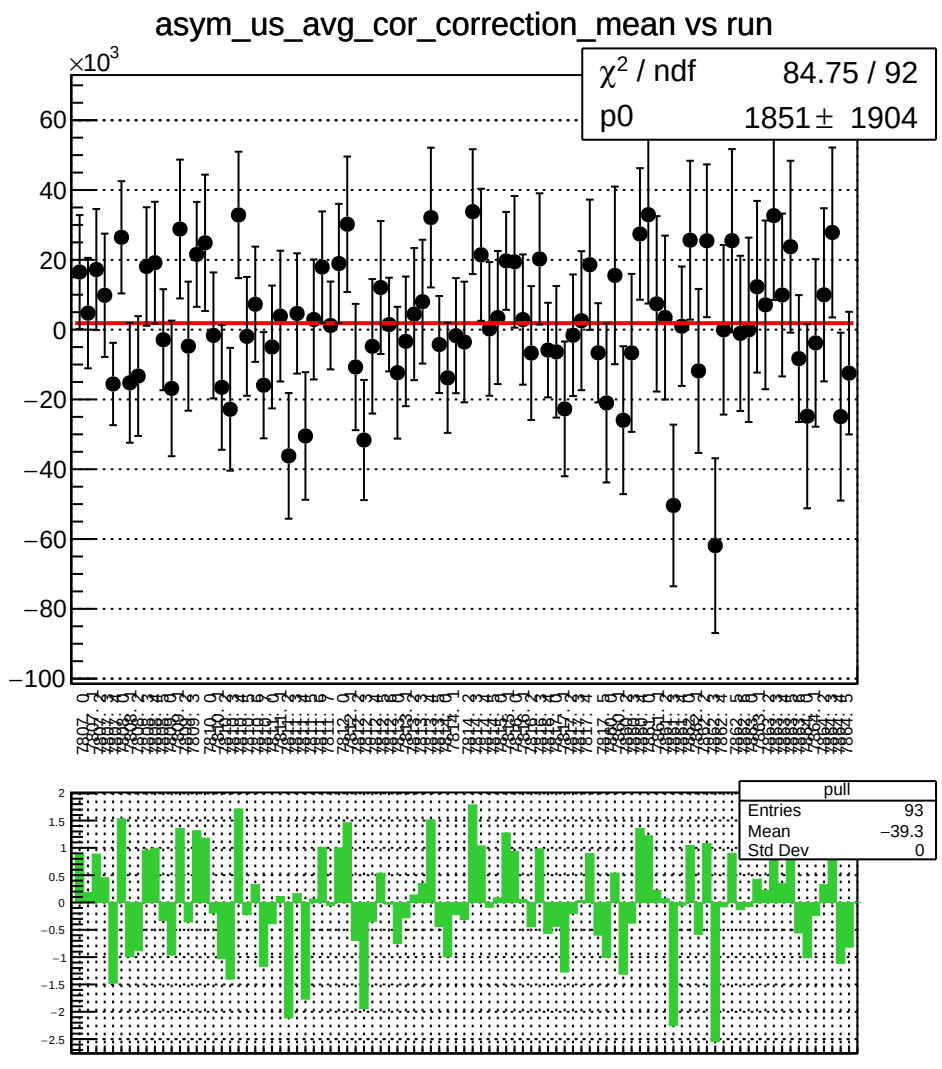

pull1D
Entries 93
Mean 0.01157
Std Dev 0.9545

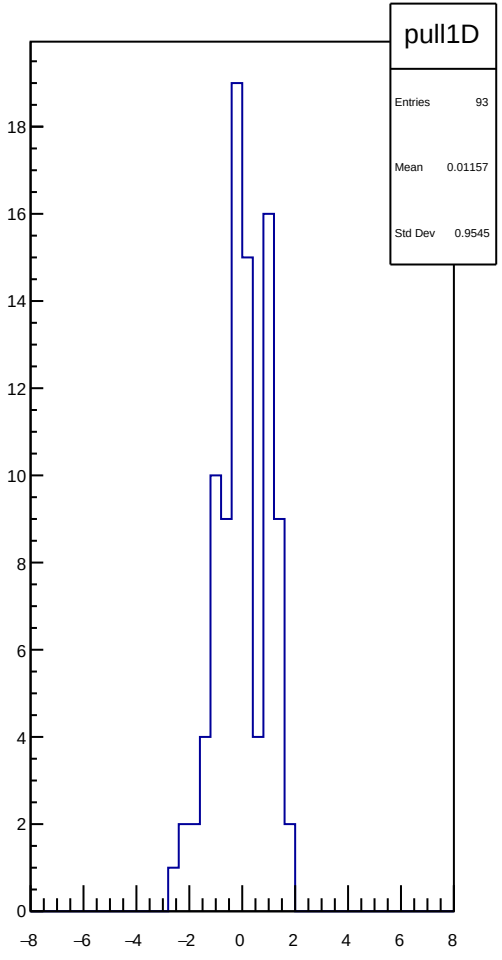

asym_us_avg_reg_correction_rms vs run
χ² / ndf 3.734e+04 / 92
p0 1814 ± 1.346
2600
2400
2200
2000
1800
1600
1400

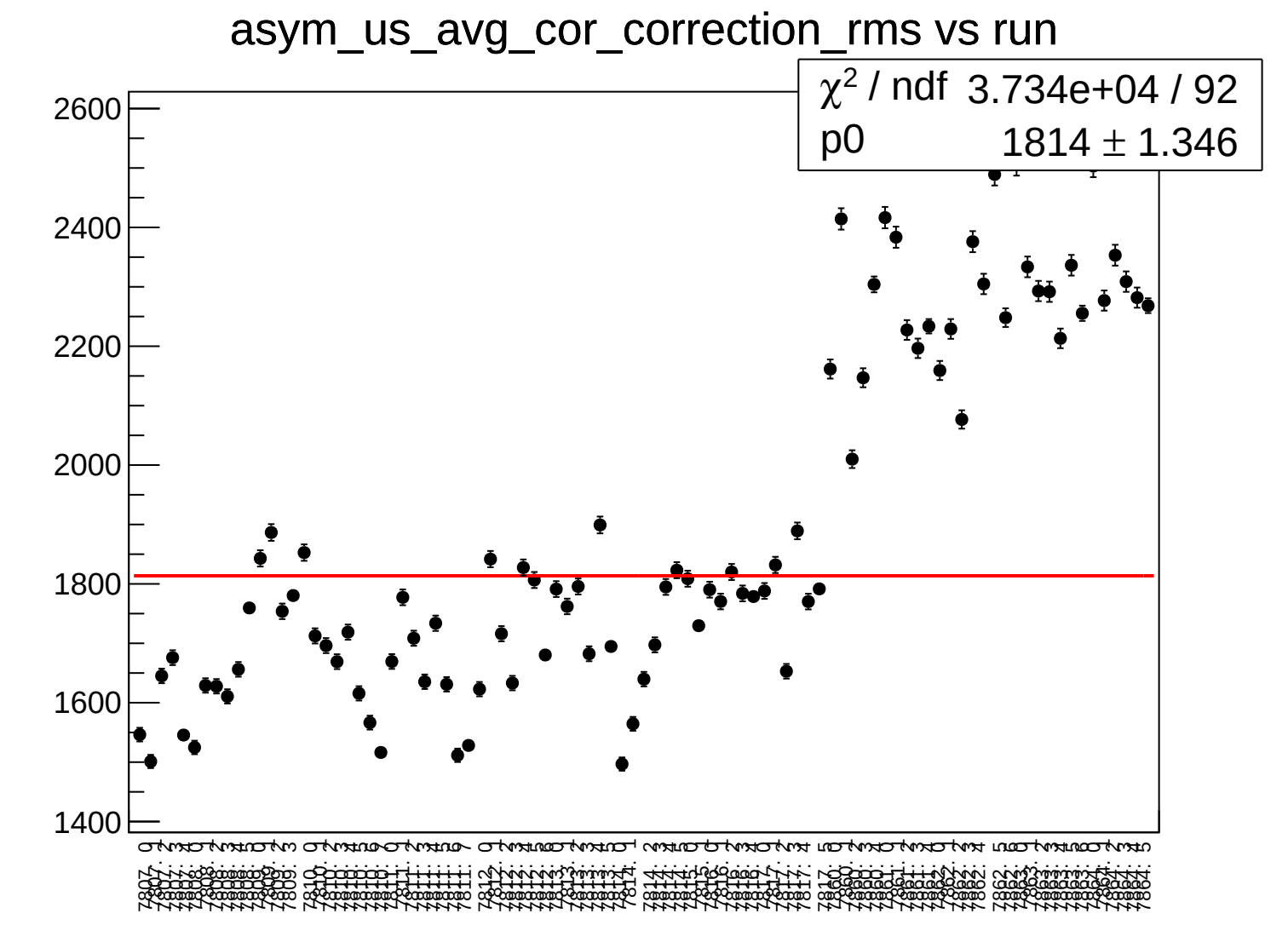

cor_asym_us_avg_mean vs run
χ² / ndf 95.58 / 92
p0 −2425 ± 801.4
pull
Entries 93
Mean −5.33e+04
Std Dev 0

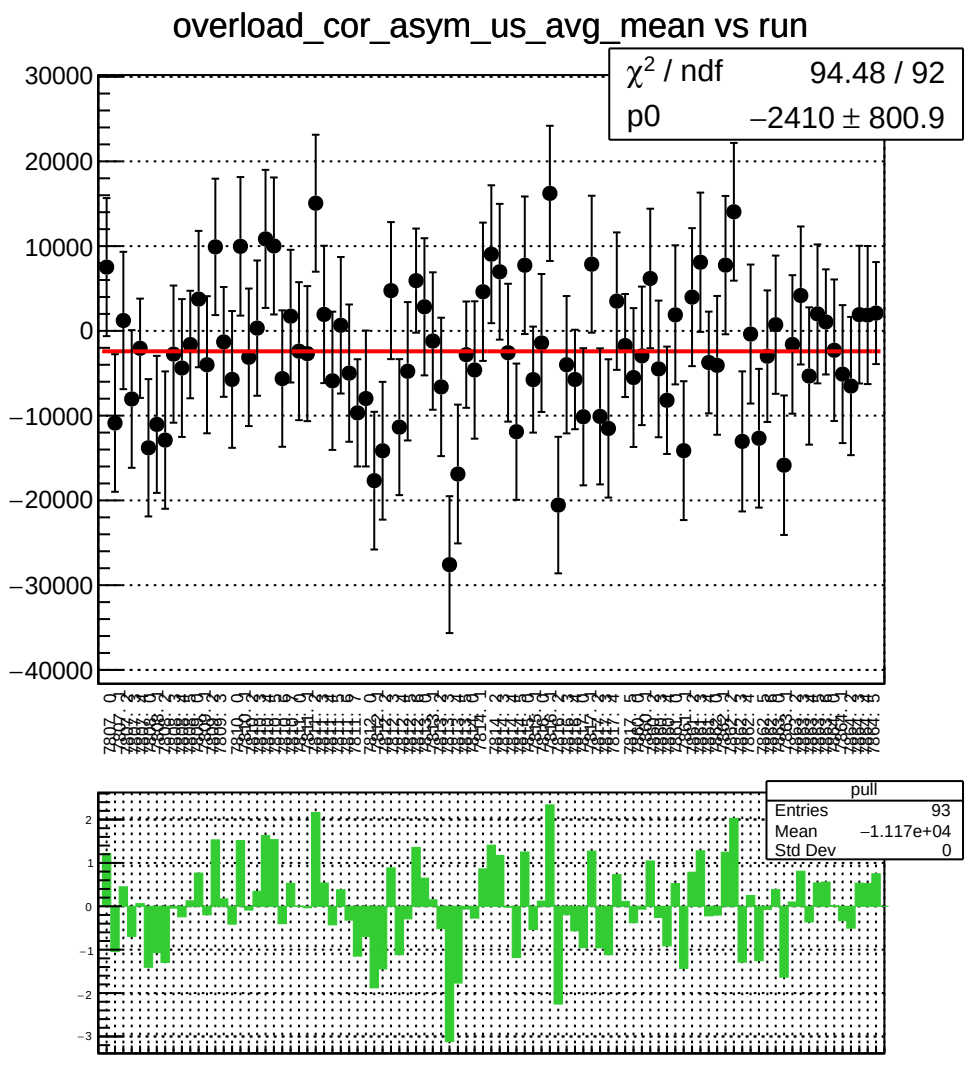

pull1D
Entries 93
Mean −9.609e−06
Std Dev 1.014

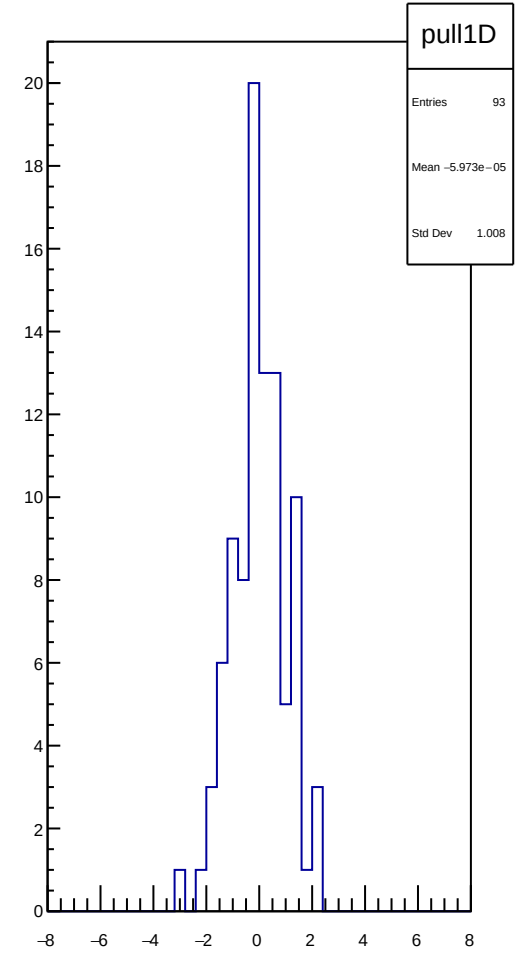

cor_asym_us_avg_rms vs run
χ² / ndf 118.3 / 92
p0 771.1 ± 0.5667
800
790
780
770
760
750

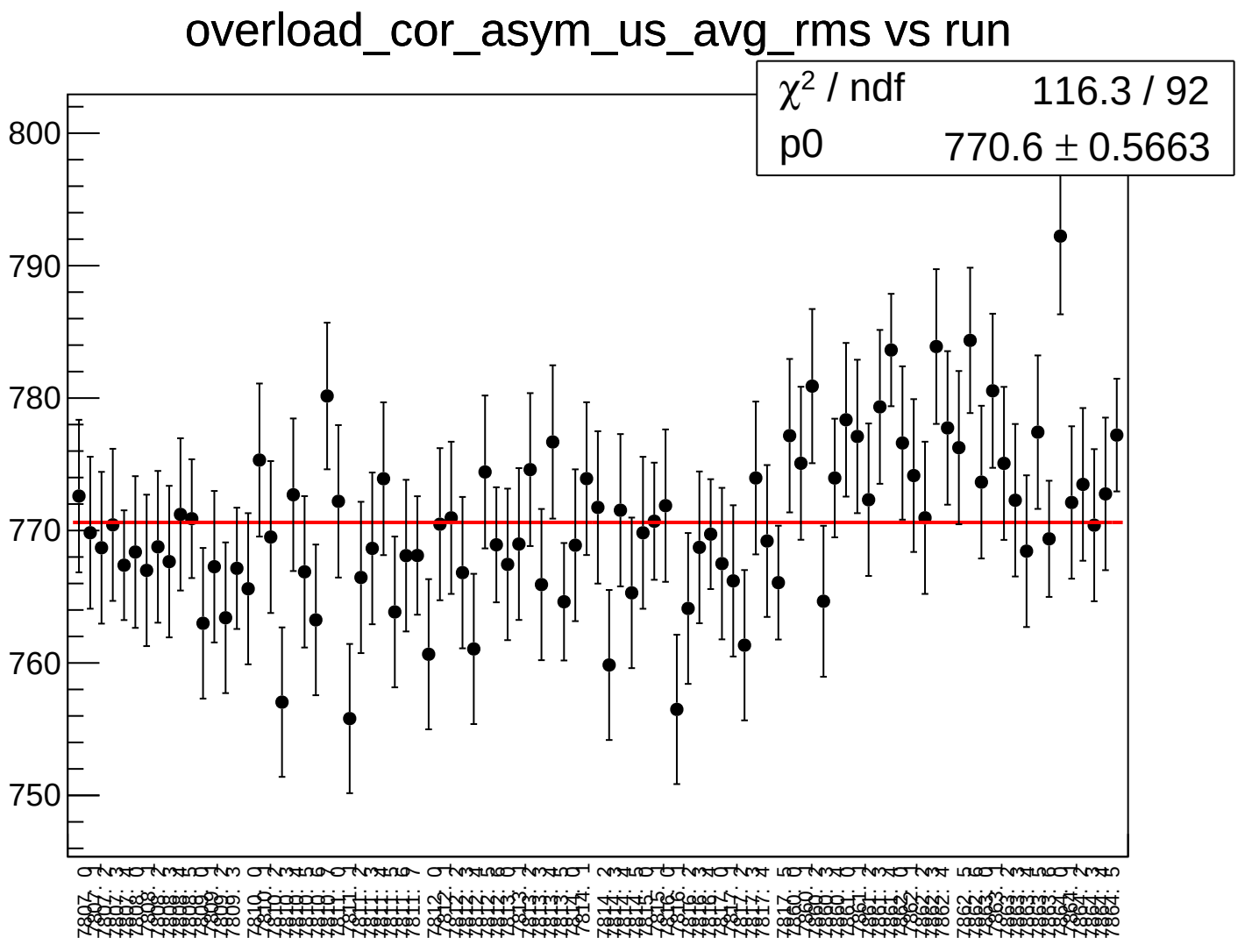

asym_us_avg_cor_correction_mean vs run
χ² / ndf 84.75 / 92
p0 1851 ± 1904
×10³
pull
Entries 93
Mean −39.3
Std Dev 0

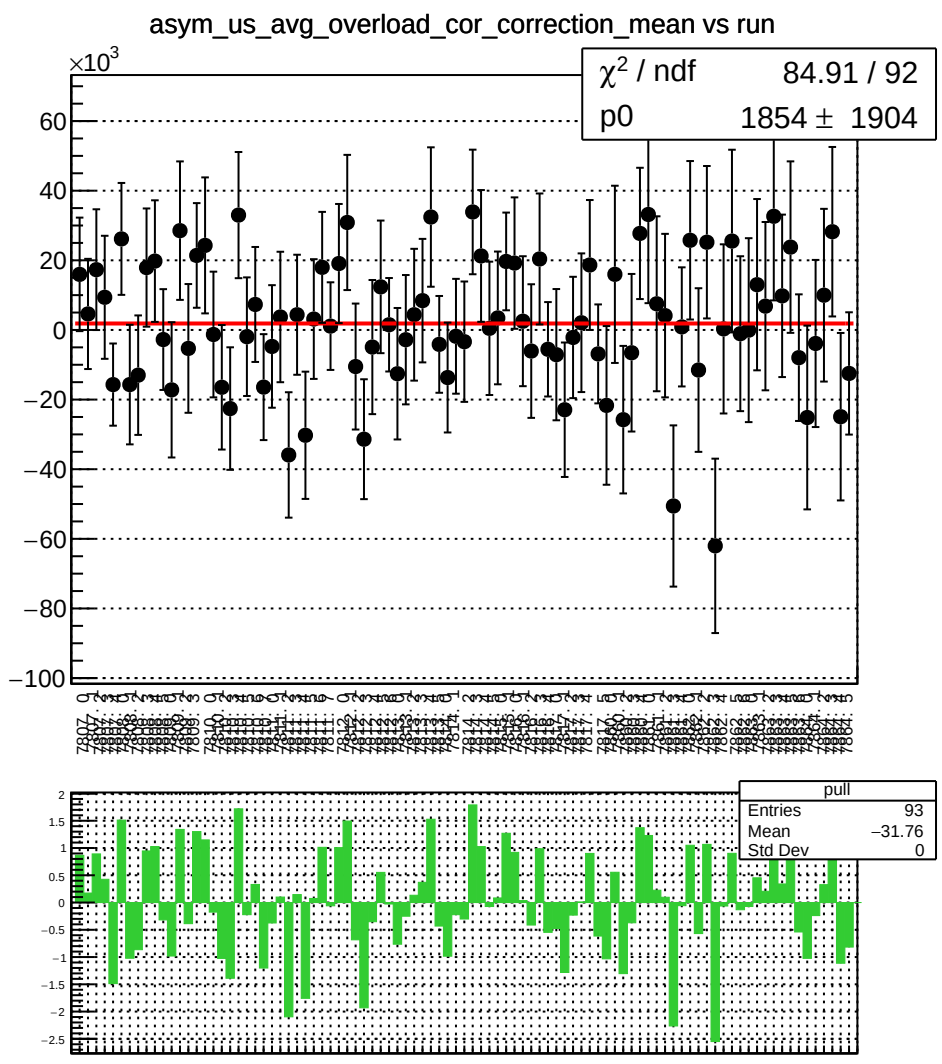

pull1D
Entries 93
Mean 0.01157
Std Dev 0.9545

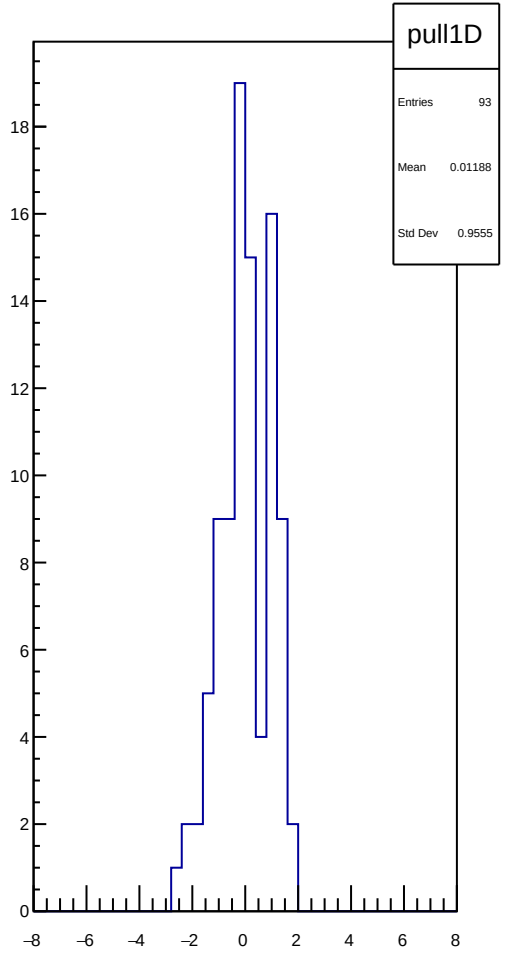

asym_us_avg_cor_correction_rms vs run
χ² / ndf 3.734e+04 / 92
p0 1814 ± 1.346
2600
2400
2200
2000
1800
1600
1400

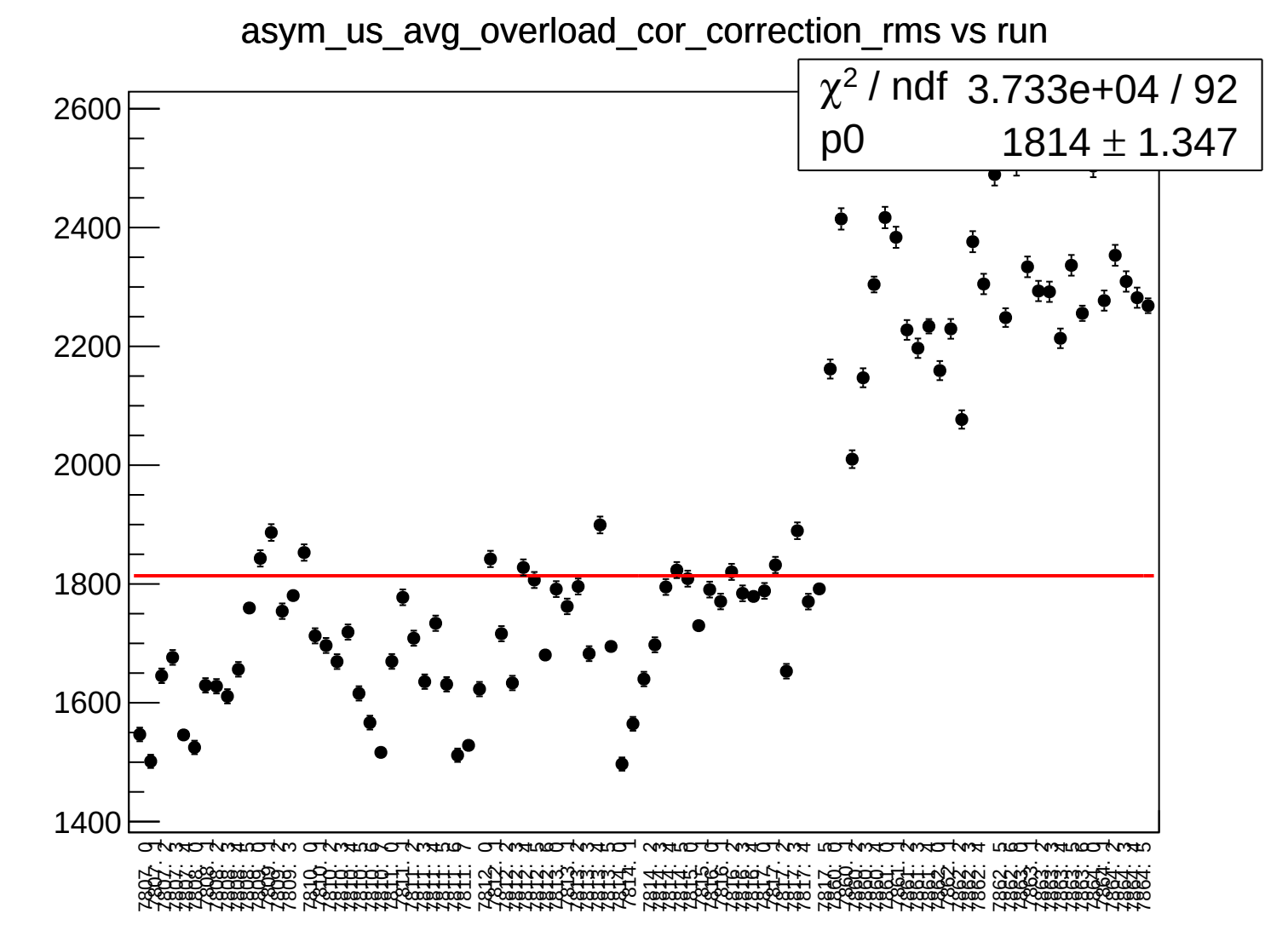

overload_cor_asym_us_avg_mean vs run
χ² / ndf 94.48 / 92
p0 −2410 ± 800.9
pull
Entries 93
Mean −1.117e+04
Std Dev 0

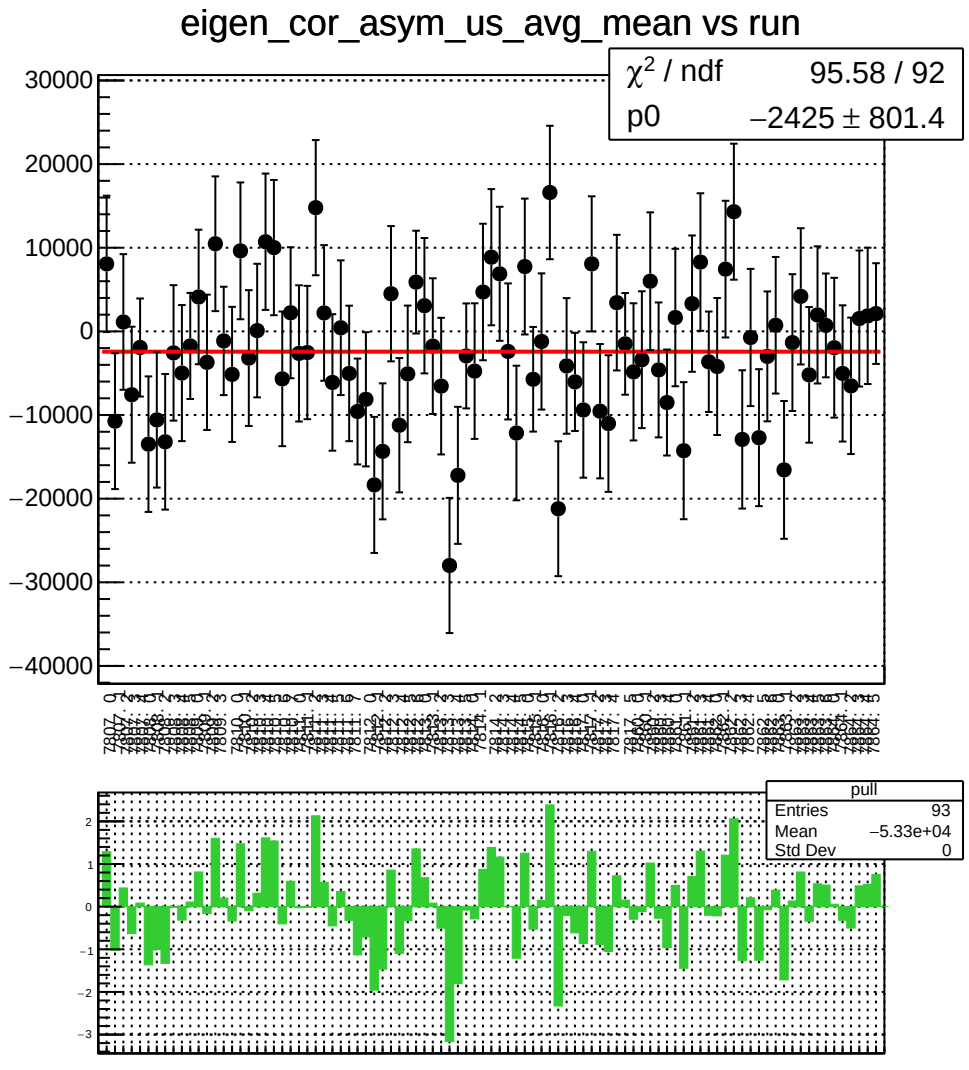

pull1D
Entries 93
Mean −5.973e−05
Std Dev 1.008

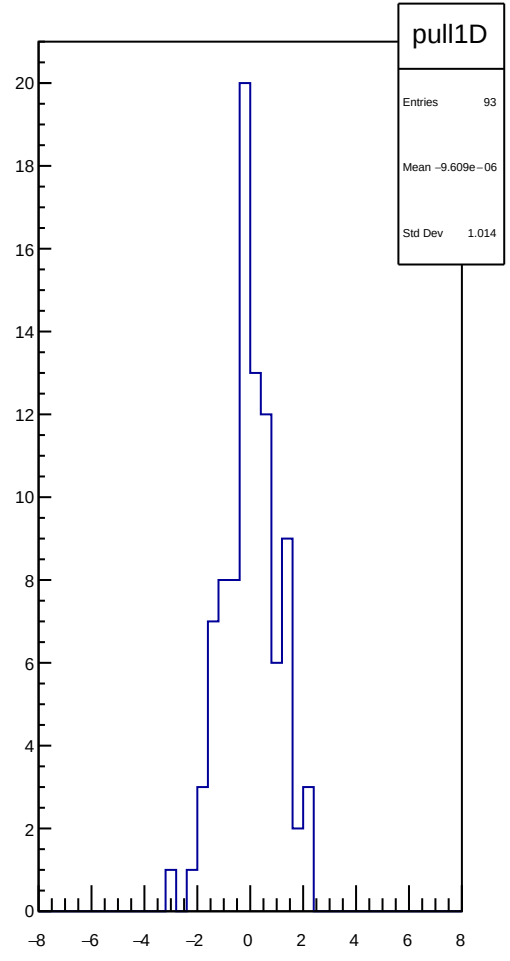

overload_cor_asym_us_avg_rms vs run
χ² / ndf 116.3 / 92
p0 770.6 ± 0.5663
800
790
780
770
760
750

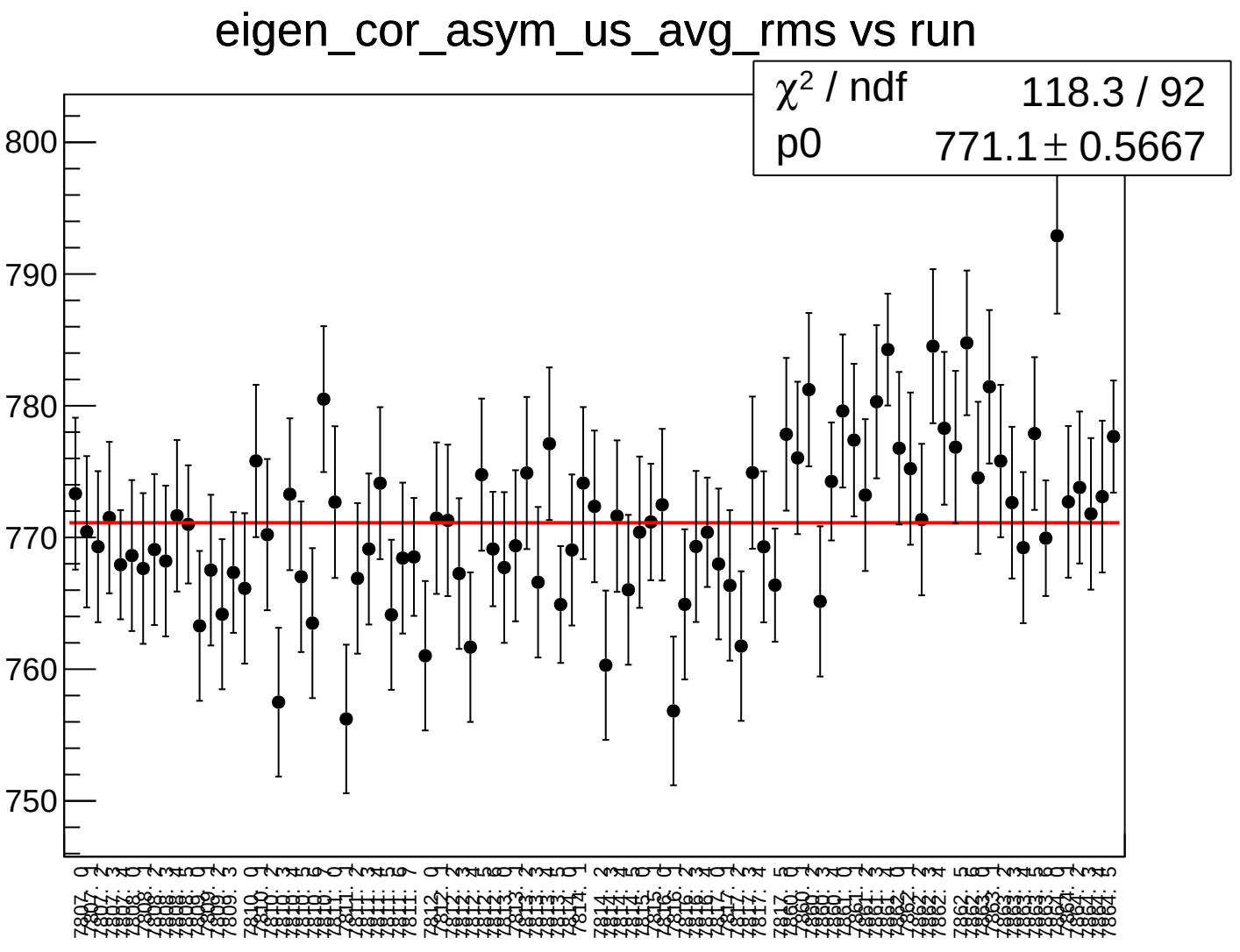

asym_us_avg_overload_cor_correction_mean vs run
χ² / ndf 84.91 / 92
p0 1854 ± 1904
×10³
pull
Entries 93
Mean −31.76
Std Dev 0

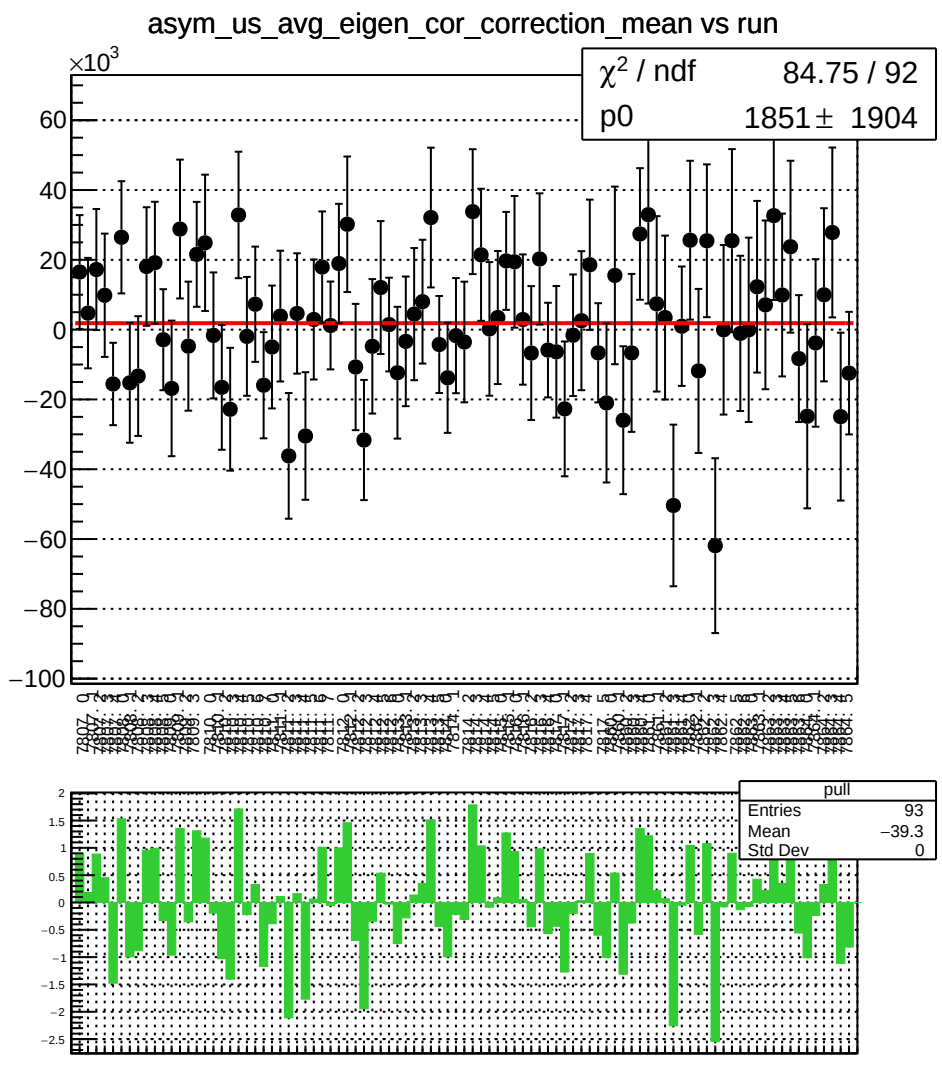

pull1D
Entries 93
Mean 0.01188
Std Dev 0.9555

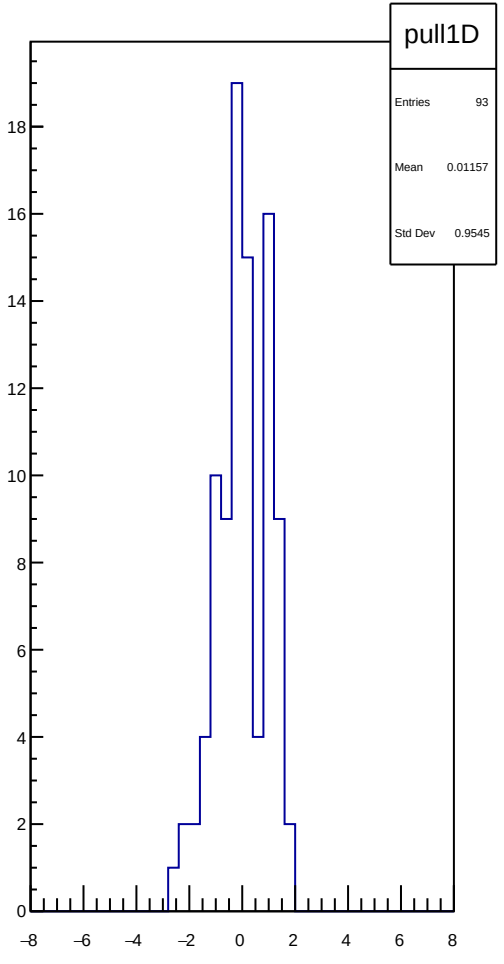

asym_us_avg_overload_cor_correction_rms vs run
χ² / ndf 3.733e+04 / 92
p0 1814 ± 1.347
2600
2400
2200
2000
1800
1600
1400

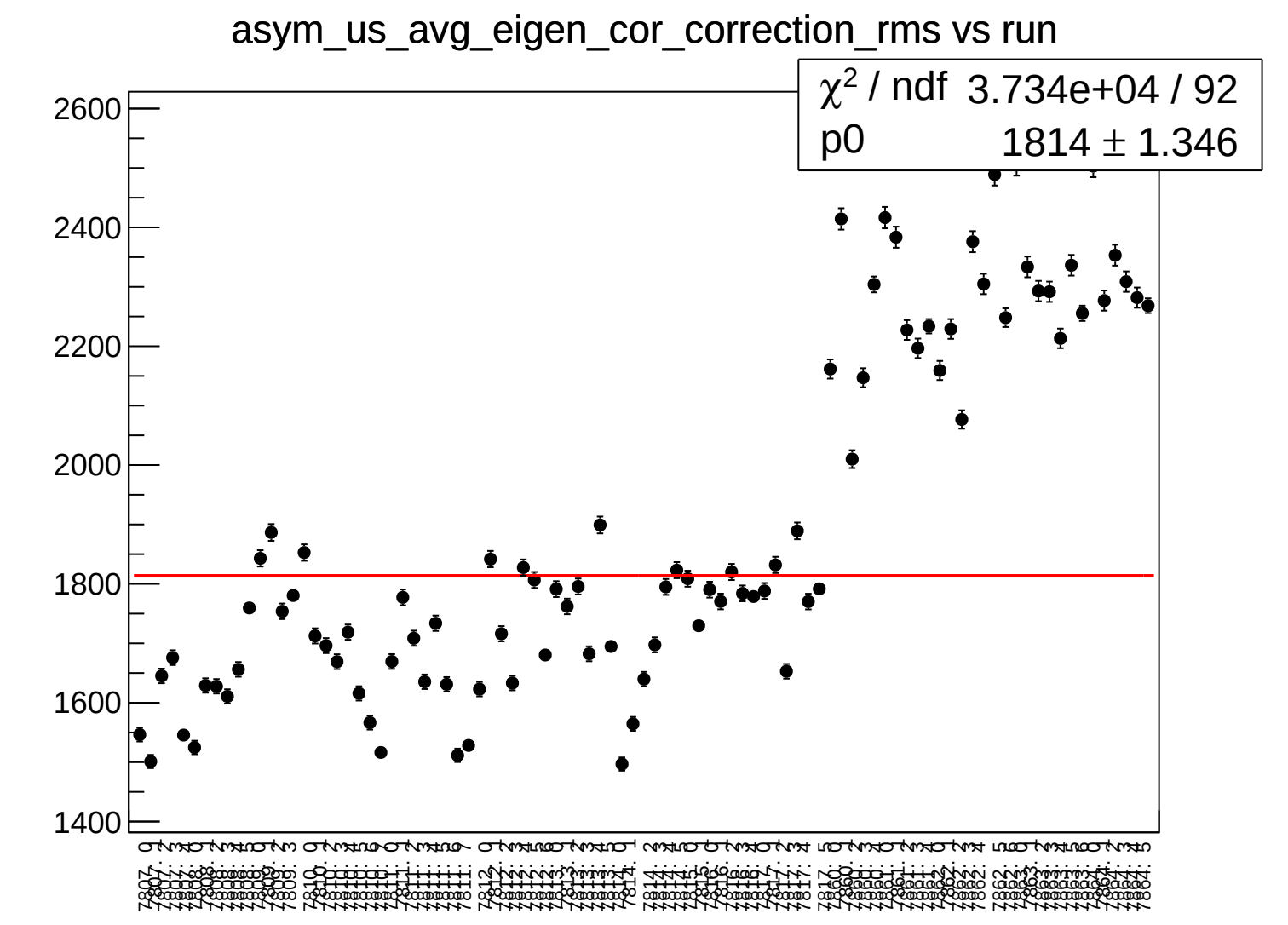

eigen_cor_asym_us_avg_mean vs run
χ² / ndf 95.58 / 92
p0 −2425 ± 801.4
pull
Entries 93
Mean −5.33e+04
Std Dev 0

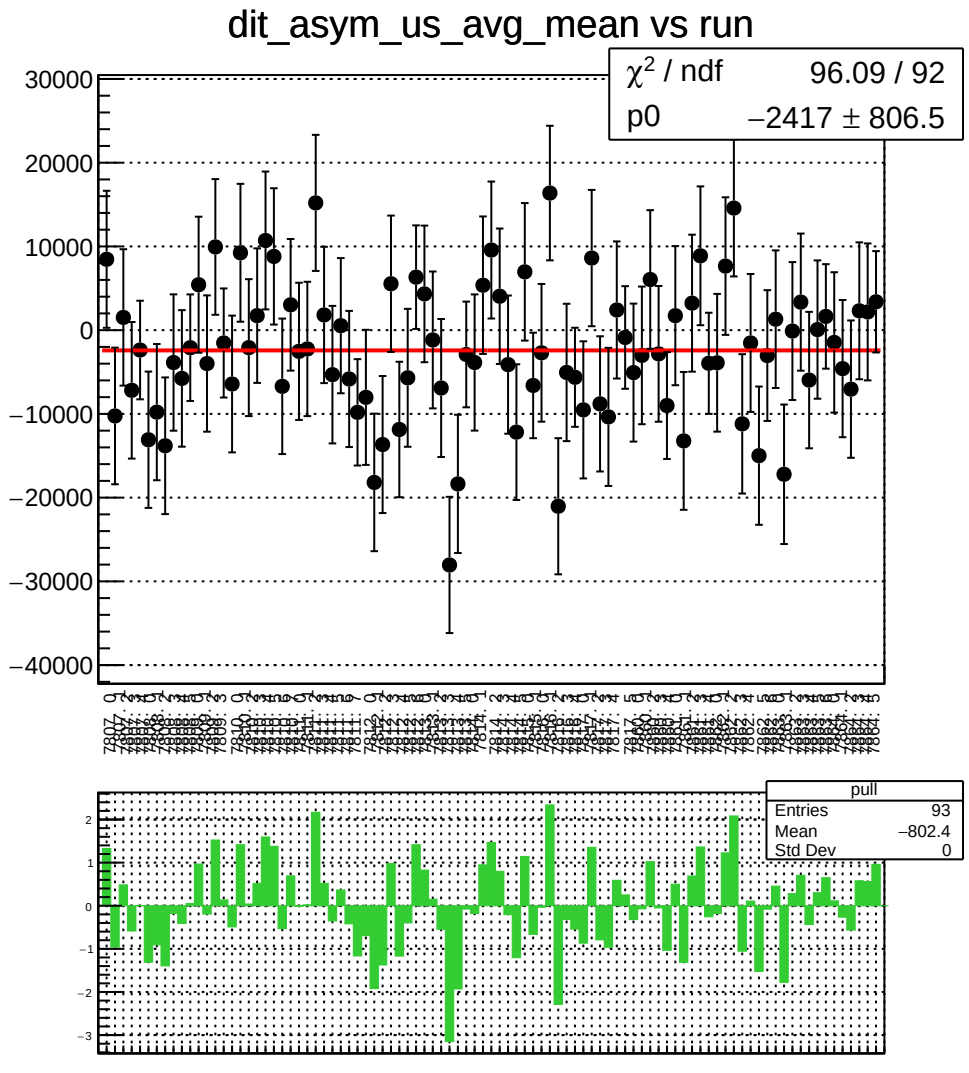

pull1D
Entries 93
Mean −9.609e−06
Std Dev 1.014

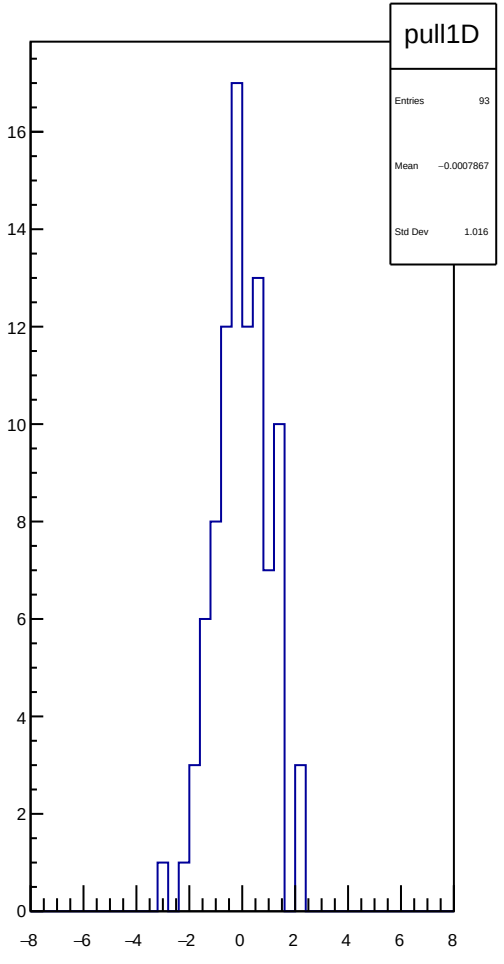

eigen_cor_asym_us_avg_rms vs run
χ² / ndf 118.3 / 92
p0 771.1 ± 0.5667
800
790
780
770
760
750

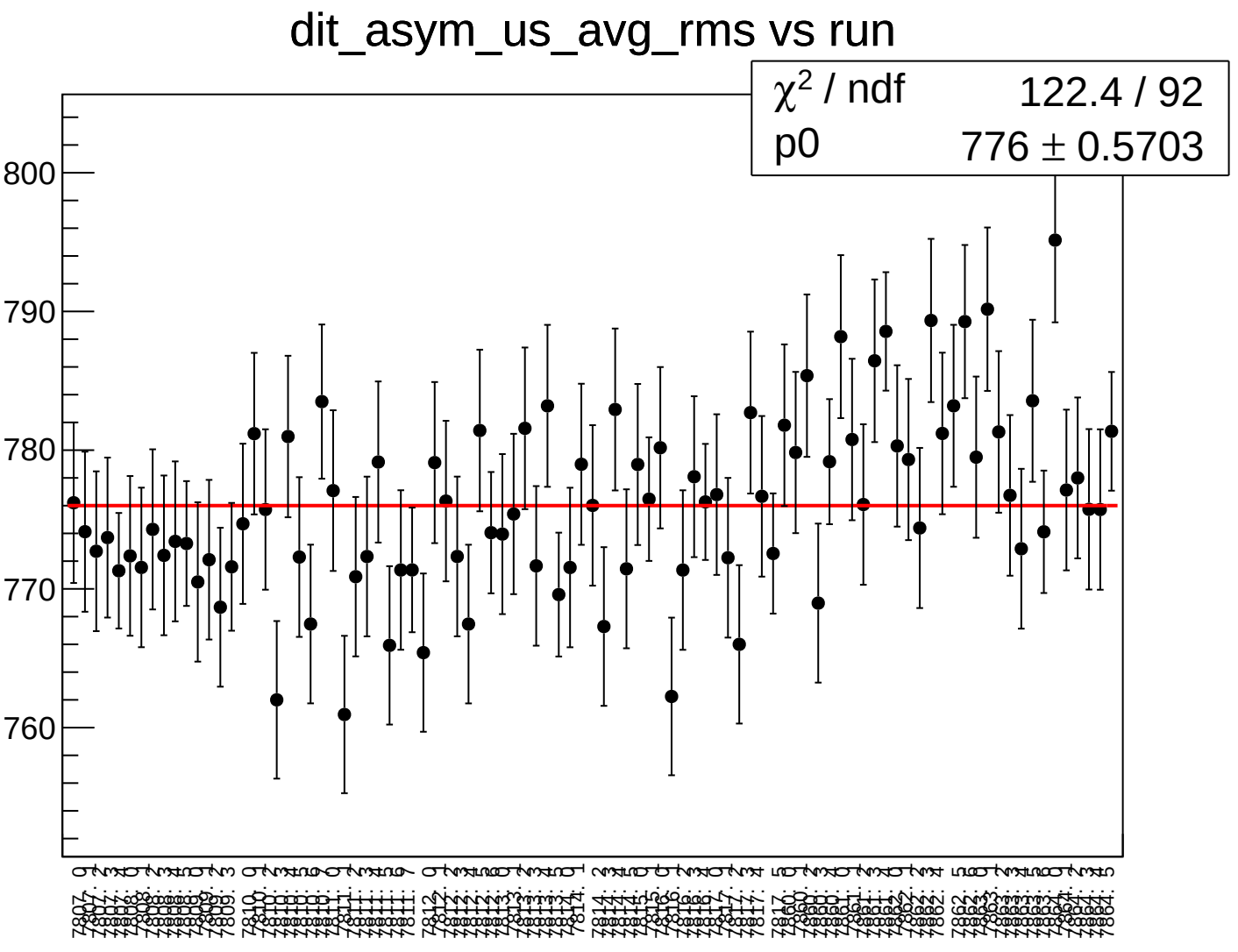

asym_us_avg_eigen_cor_correction_mean vs run
χ² / ndf 84.75 / 92
p0 1851 ± 1904
×10³
pull
Entries 93
Mean −39.3
Std Dev 0

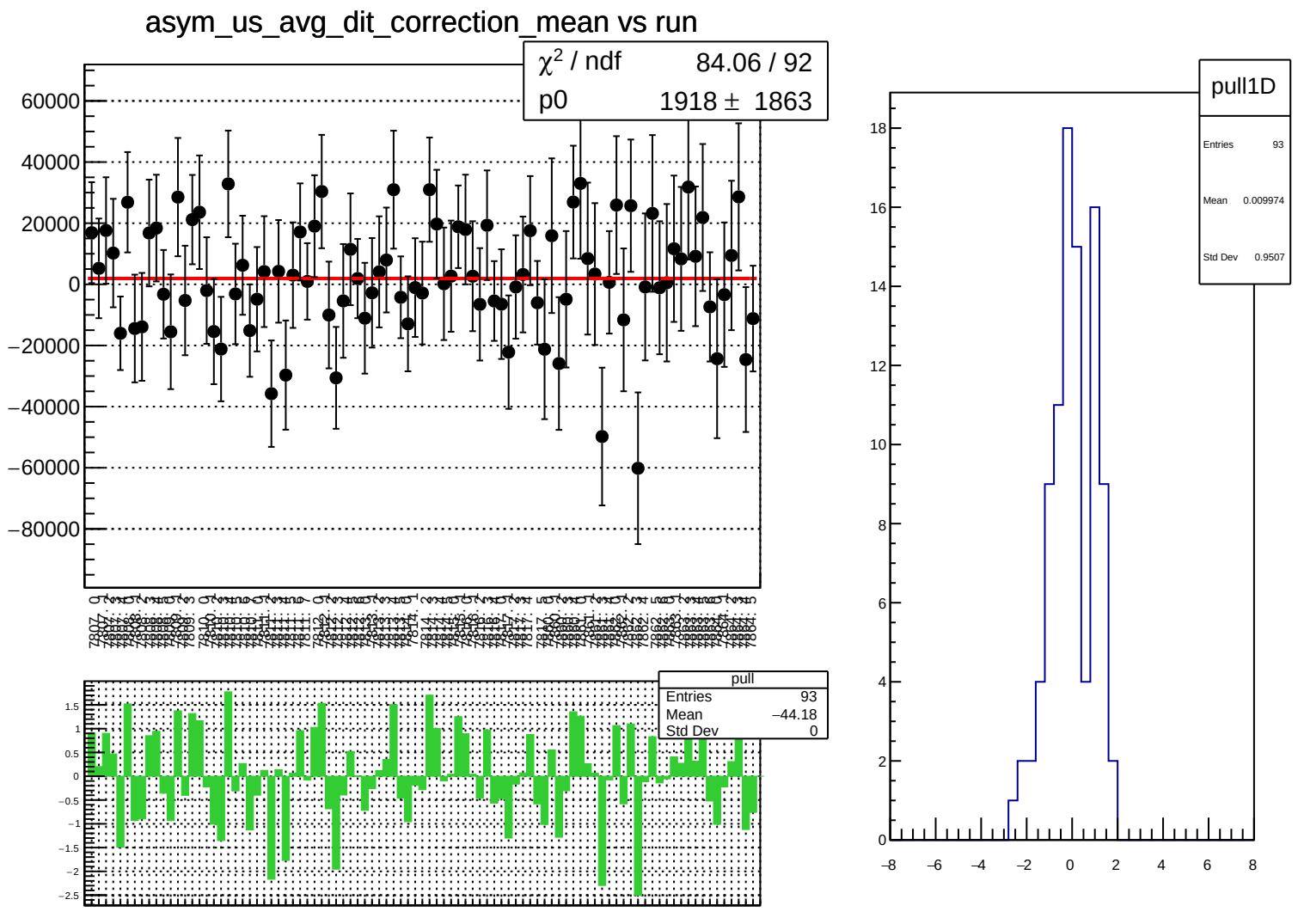

pull1D
Entries 93
Mean 0.01157
Std Dev 0.9545

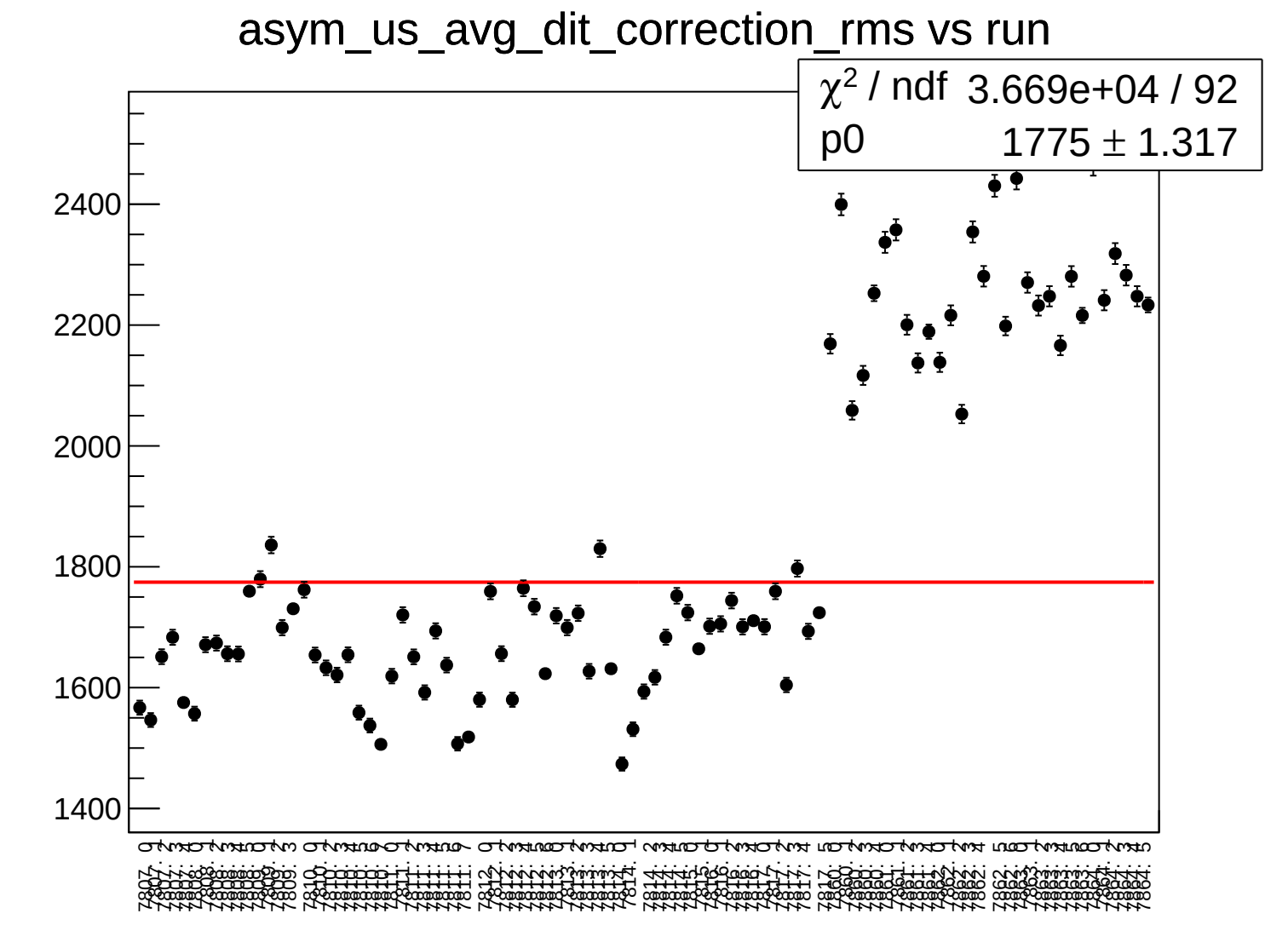

asym_us_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.734e+04 / 92
p0 1814 ± 1.346
2600
2400
2200
2000
1800
1600
1400

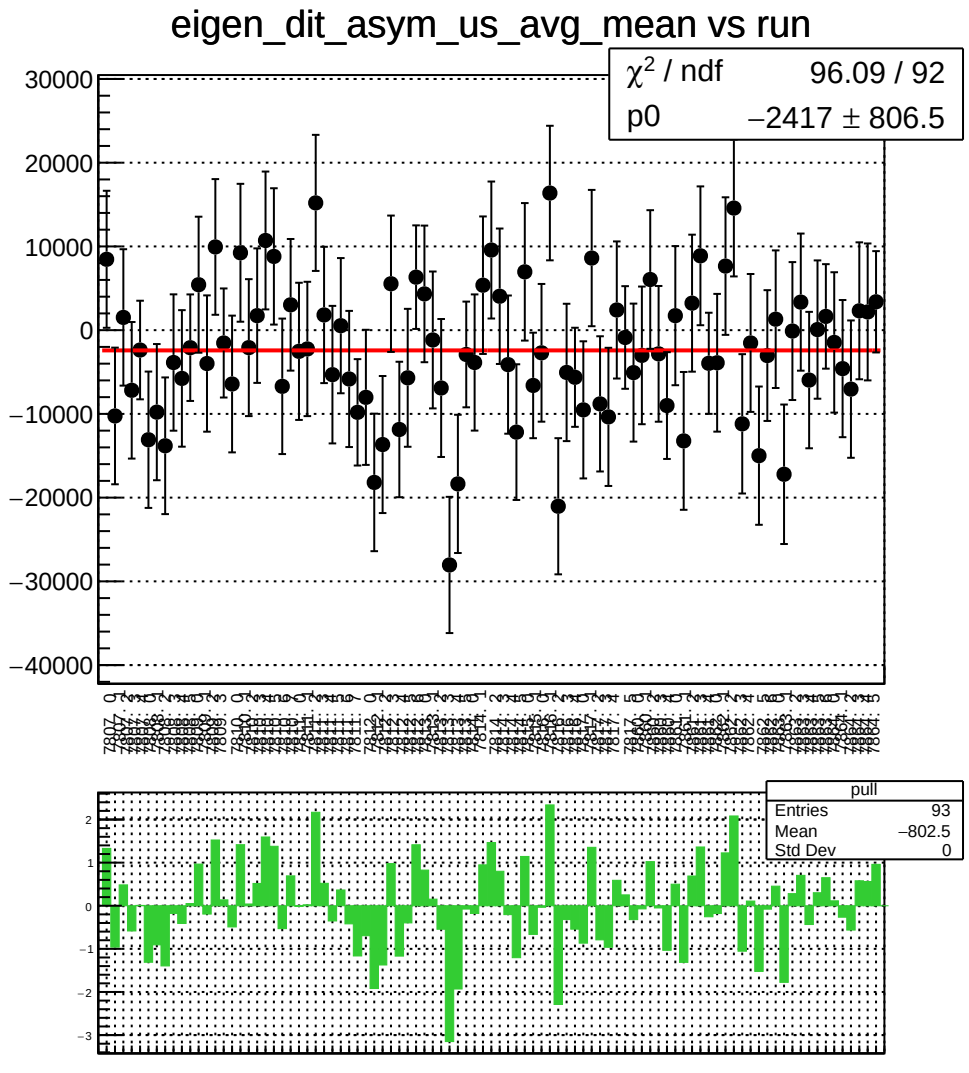

dit_asym_us_avg_mean vs run
χ² / ndf 96.09 / 92
p0 −2417 ± 806.5
pull
Entries 93
Mean −802.4
Std Dev 0

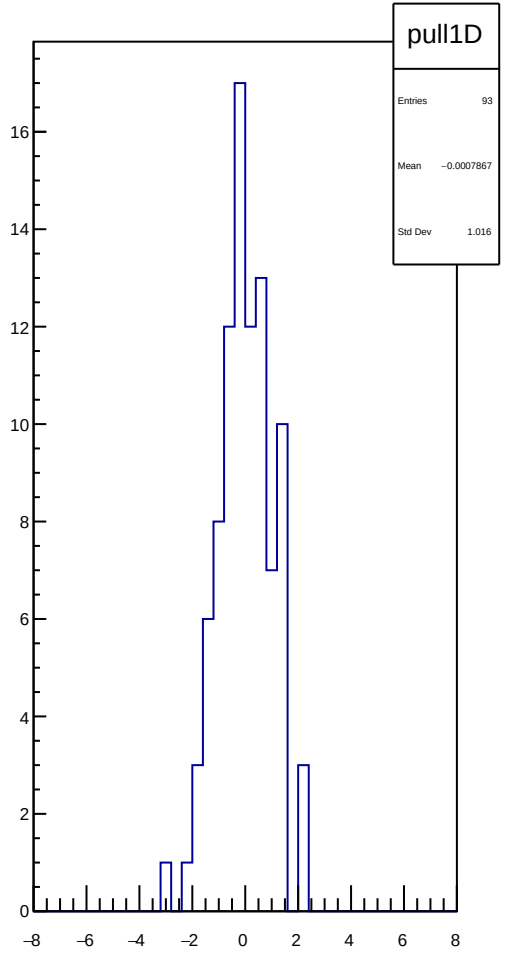

pull1D
Entries 93
Mean −0.0007867
Std Dev 1.016

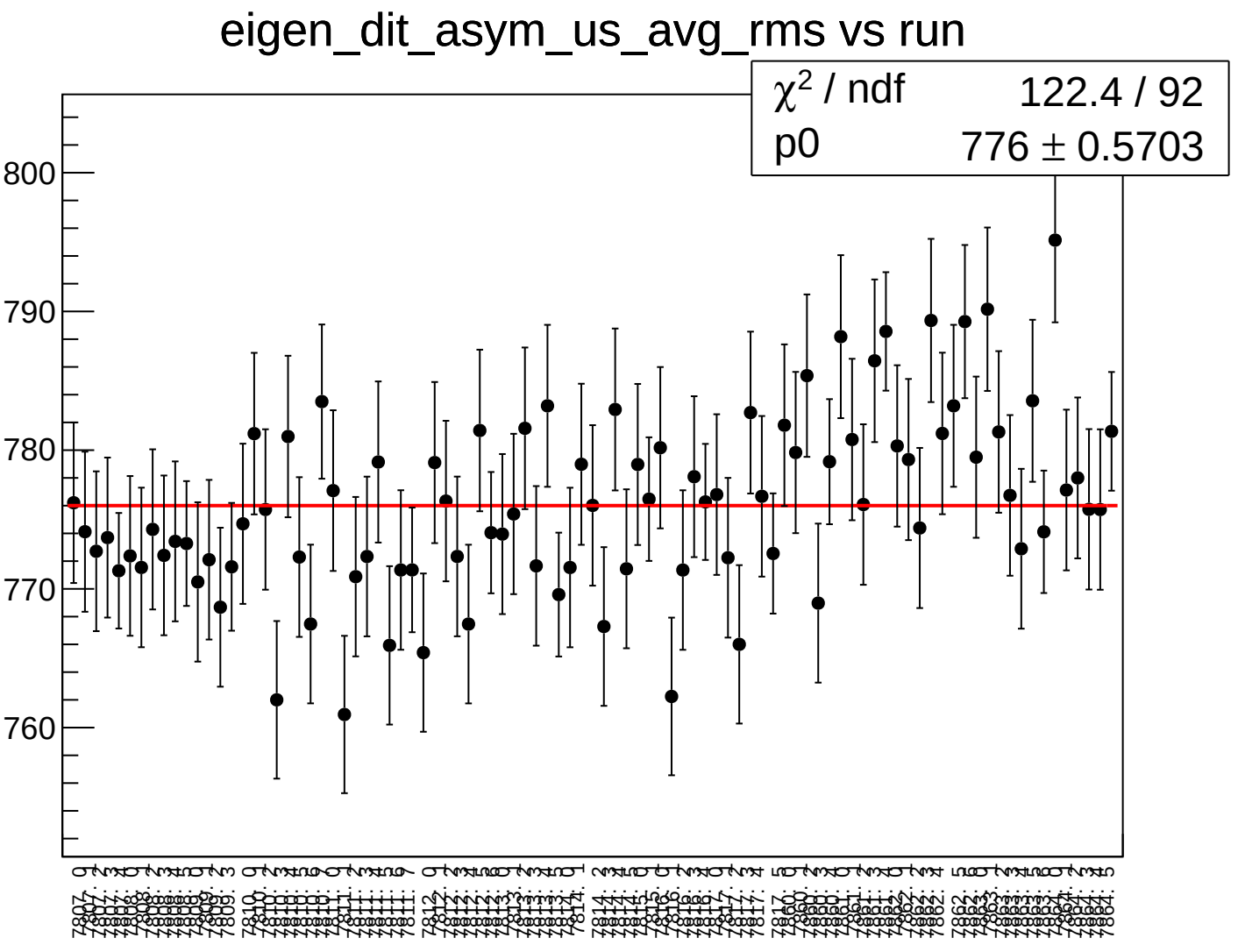

dit_asym_us_avg_rms vs run
χ^2 / ndf 122.4 / 92
p0 776 ± 0.5703
800
790
780
770
760

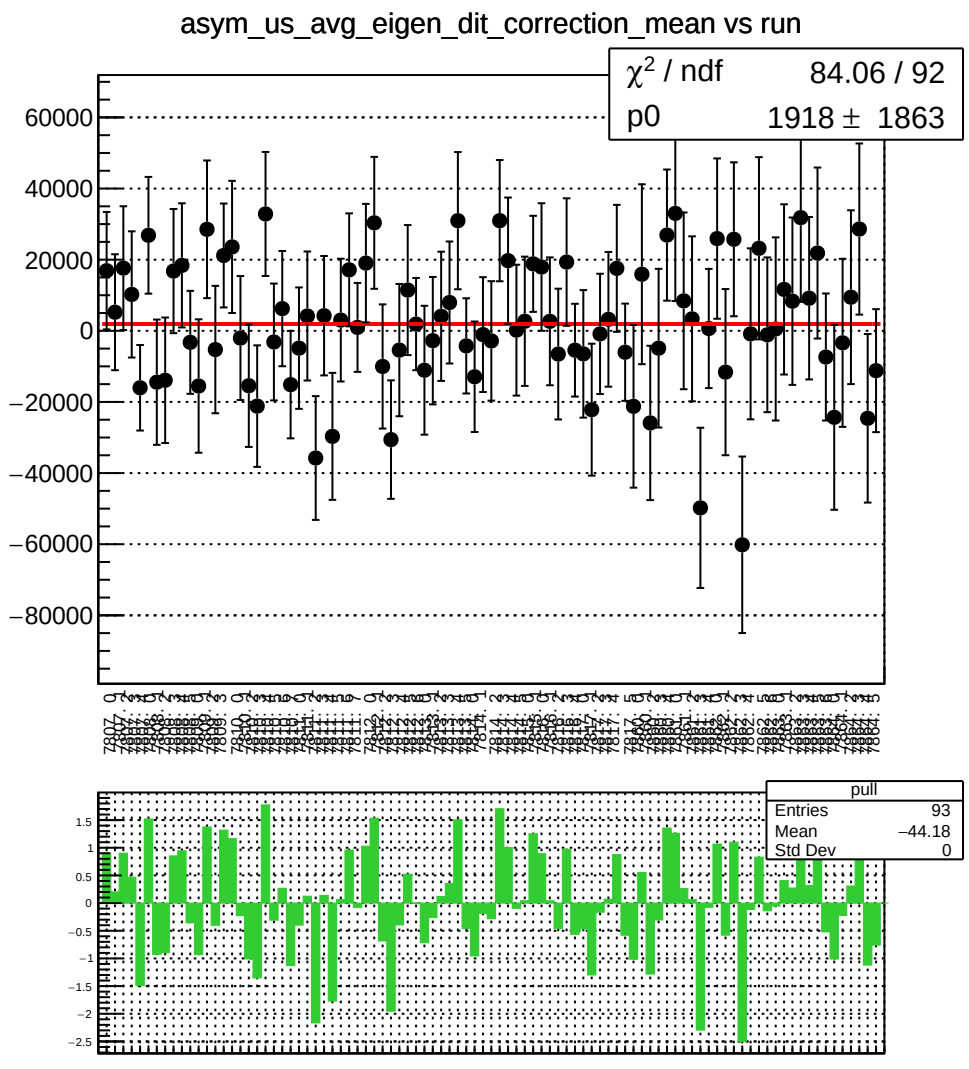

asym_us_avg_dit_correction_mean vs run
χ² / ndf 84.06 / 92
p0 1918 ± 1863
pull
Entries 93
Mean −44.18
Std Dev 0
pull1D
Entries 93
Mean 0.009974
Std Dev 0.9507

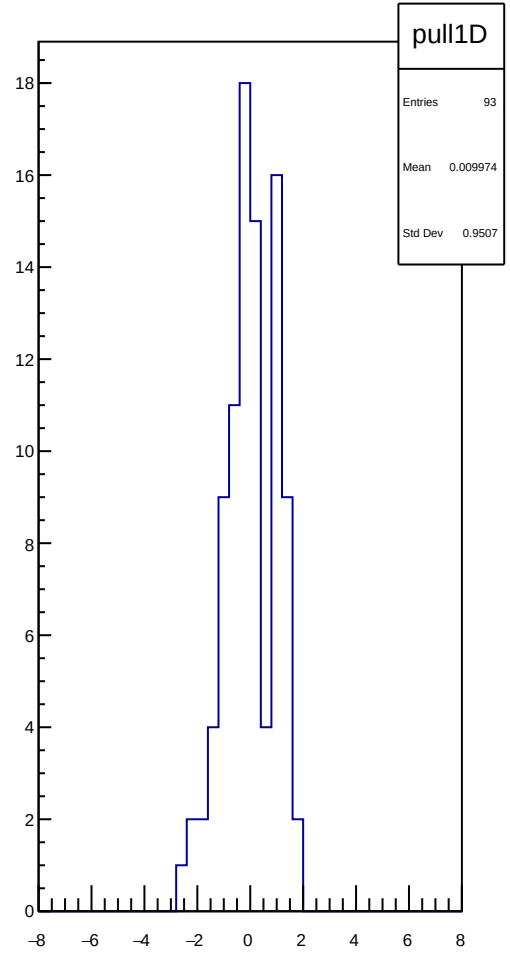

asym_us_avg_dit_correction_rms vs run
χ² / ndf 3.669e+04 / 92
p0 1775 ± 1.317
2400
2200
2000
1800
1600
1400

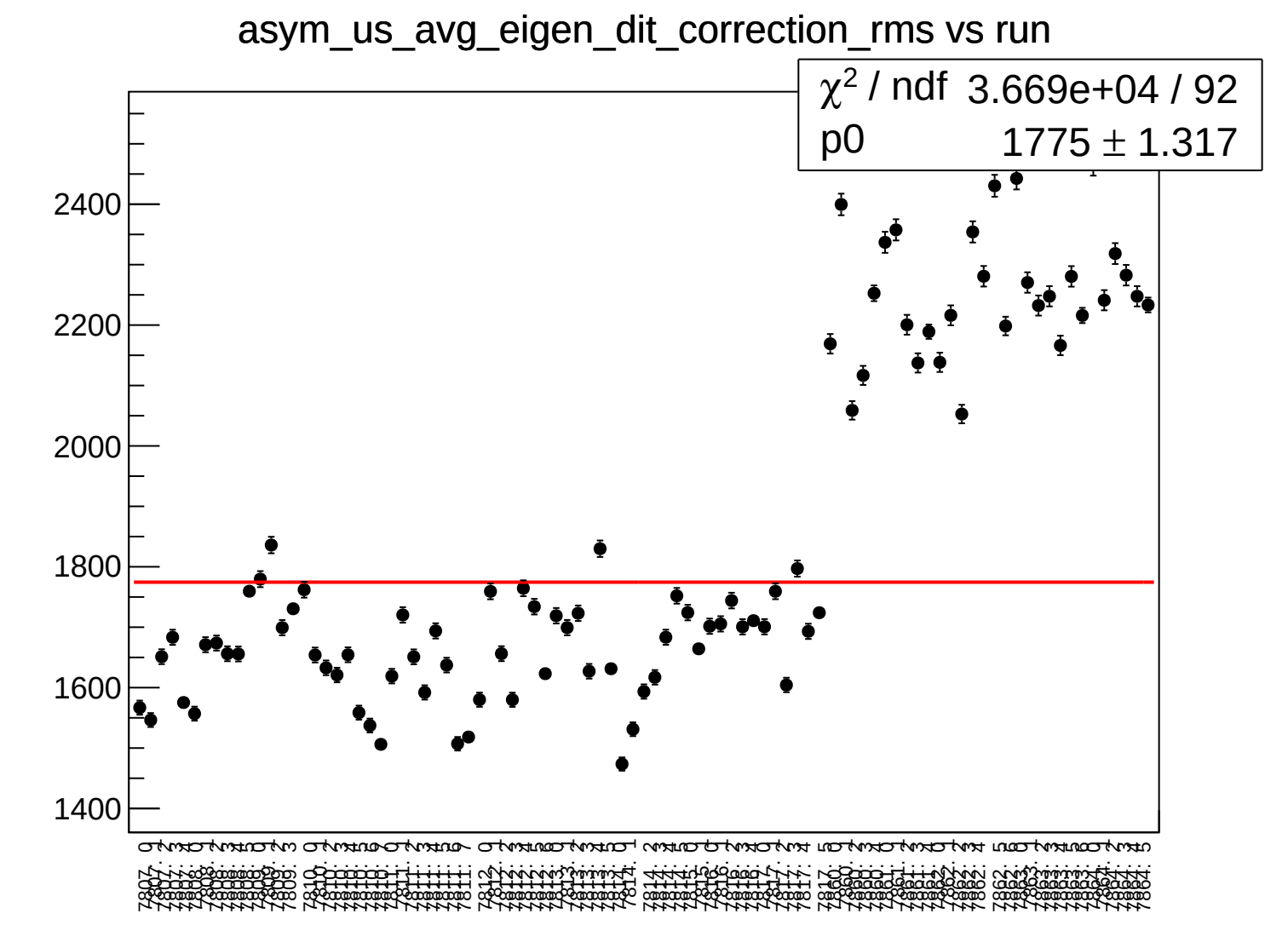

eigen_dit_asym_us_avg_mean vs run
χ² / ndf 96.09 / 92
p0 −2417 ± 806.5
pull
Entries 93
Mean −802.5
Std Dev 0

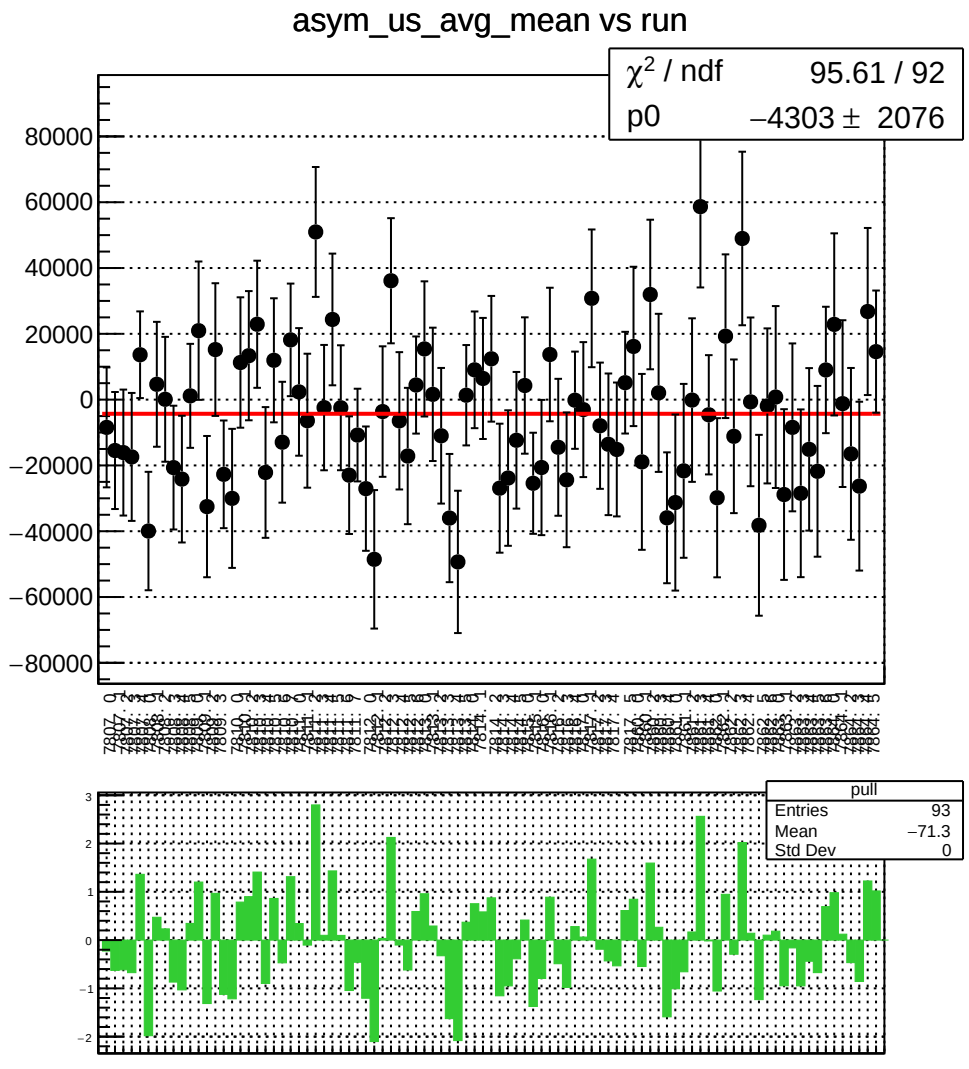

pull1D
Entries 93
Mean −0.0007867
Std Dev 1.016

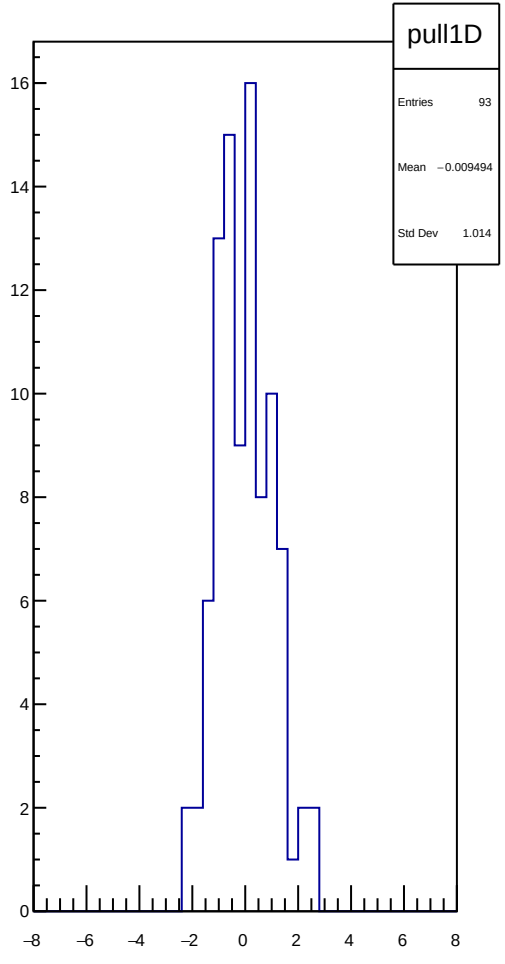

eigen_dit_asym_us_avg_rms vs run
χ² / ndf 122.4 / 92
p0 776 ± 0.5703
800
790
780
770
760

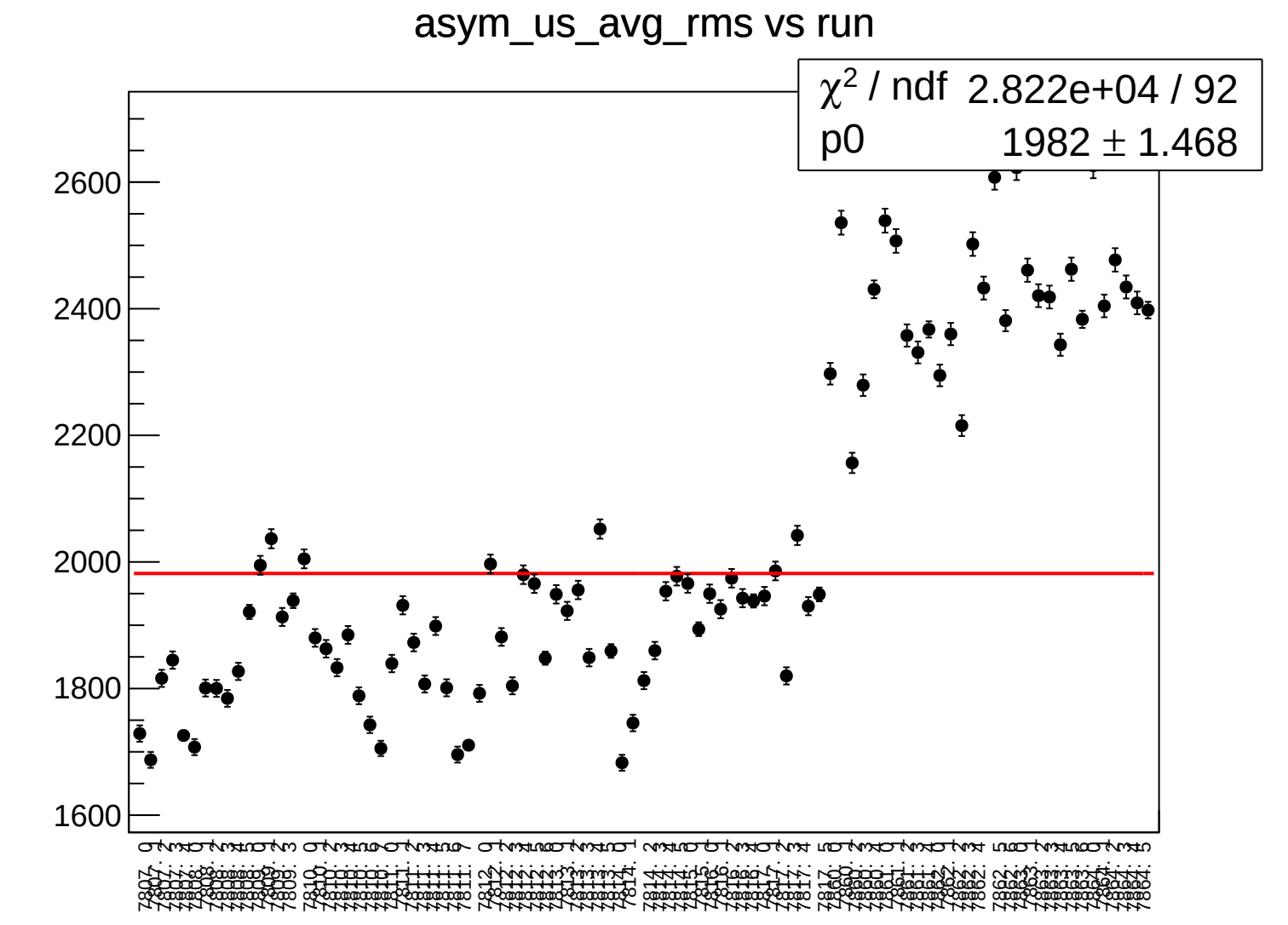

asym_us_avg_eigen_dit_correction_mean vs run
χ² / ndf 84.06 / 92
p0 1918 ± 1863
pull
Entries 93
Mean −44.18
Std Dev 0

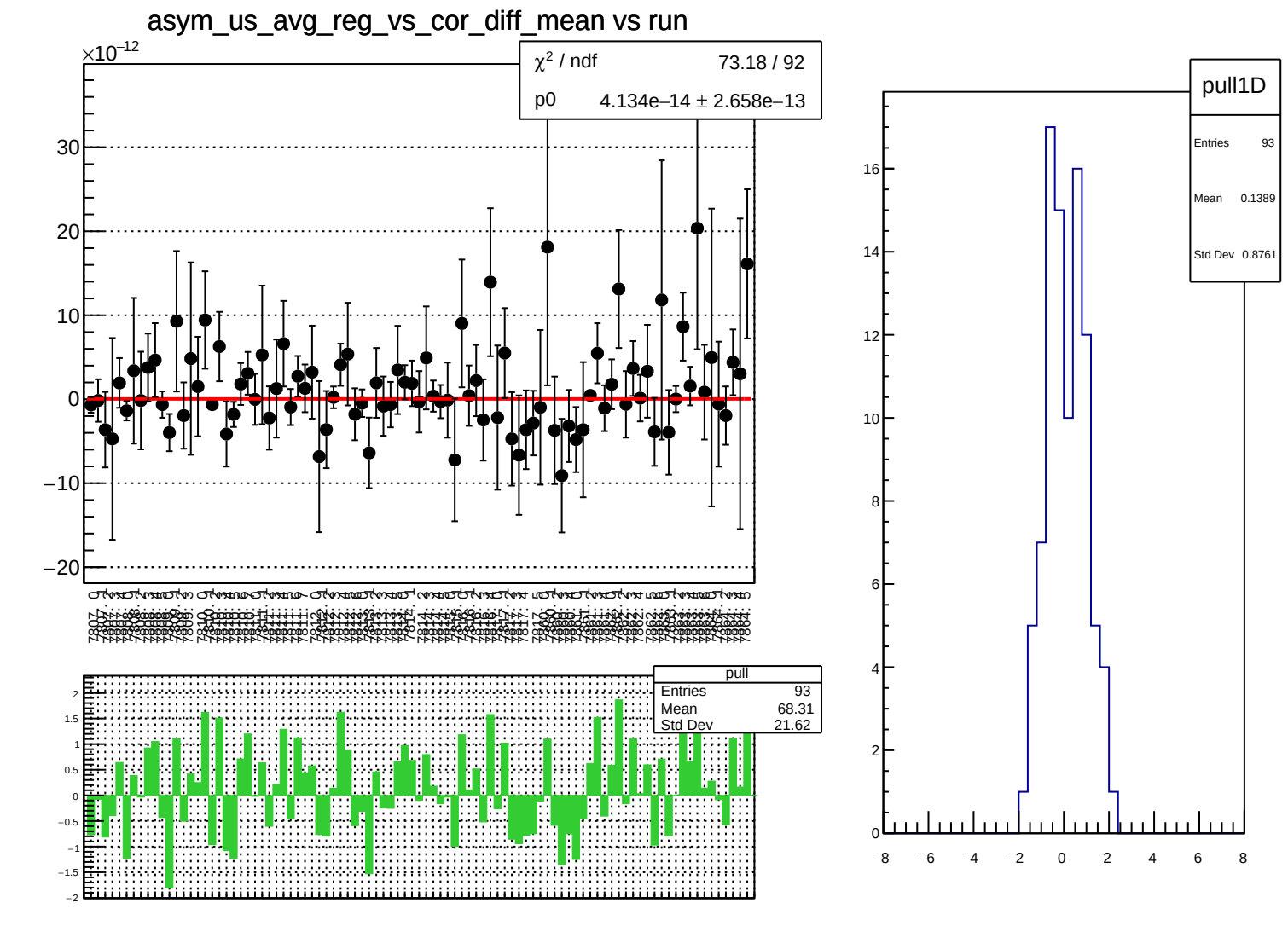

pull1D
Entries 93
Mean 0.009974
Std Dev 0.9507

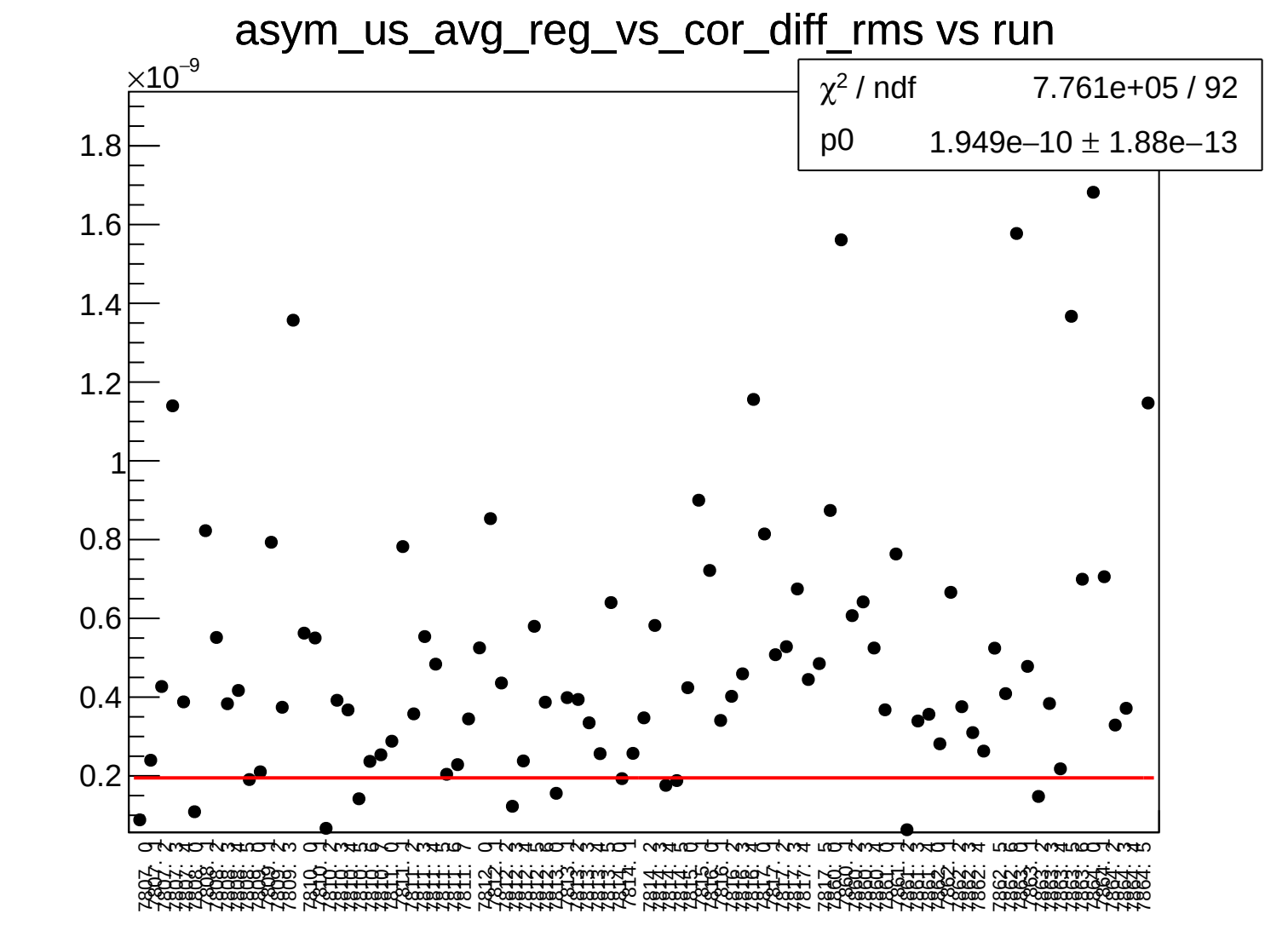

asym_us_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.669e+04 / 92
p0 1775 ± 1.317
2400
2200
2000
1800
1600
1400

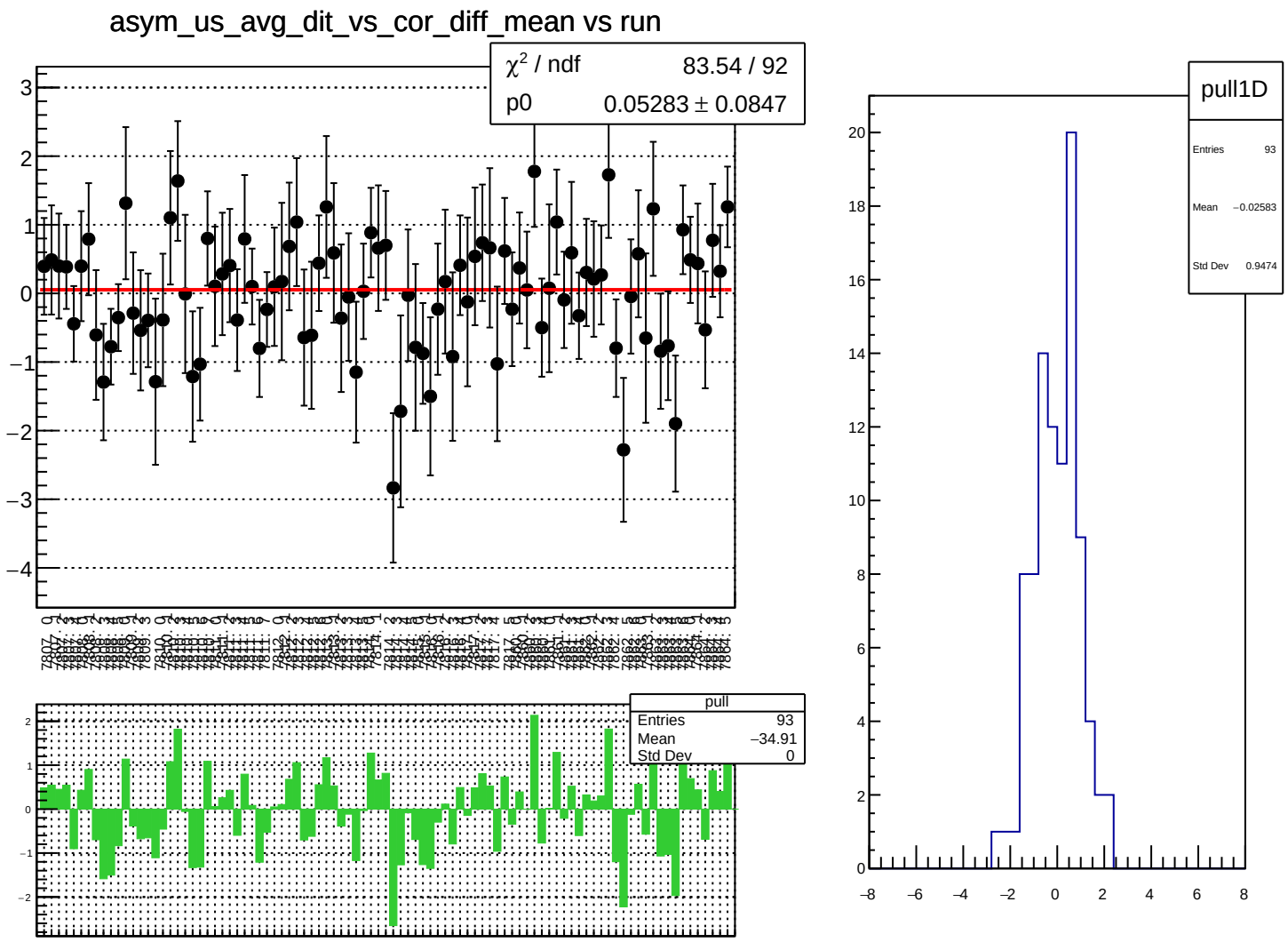

asym_us_avg_mean vs run
χ² / ndf 95.61 / 92
p0 −4303 ± 2076
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean −71.3
Std Dev 0
3
2
1
0
−1
−2

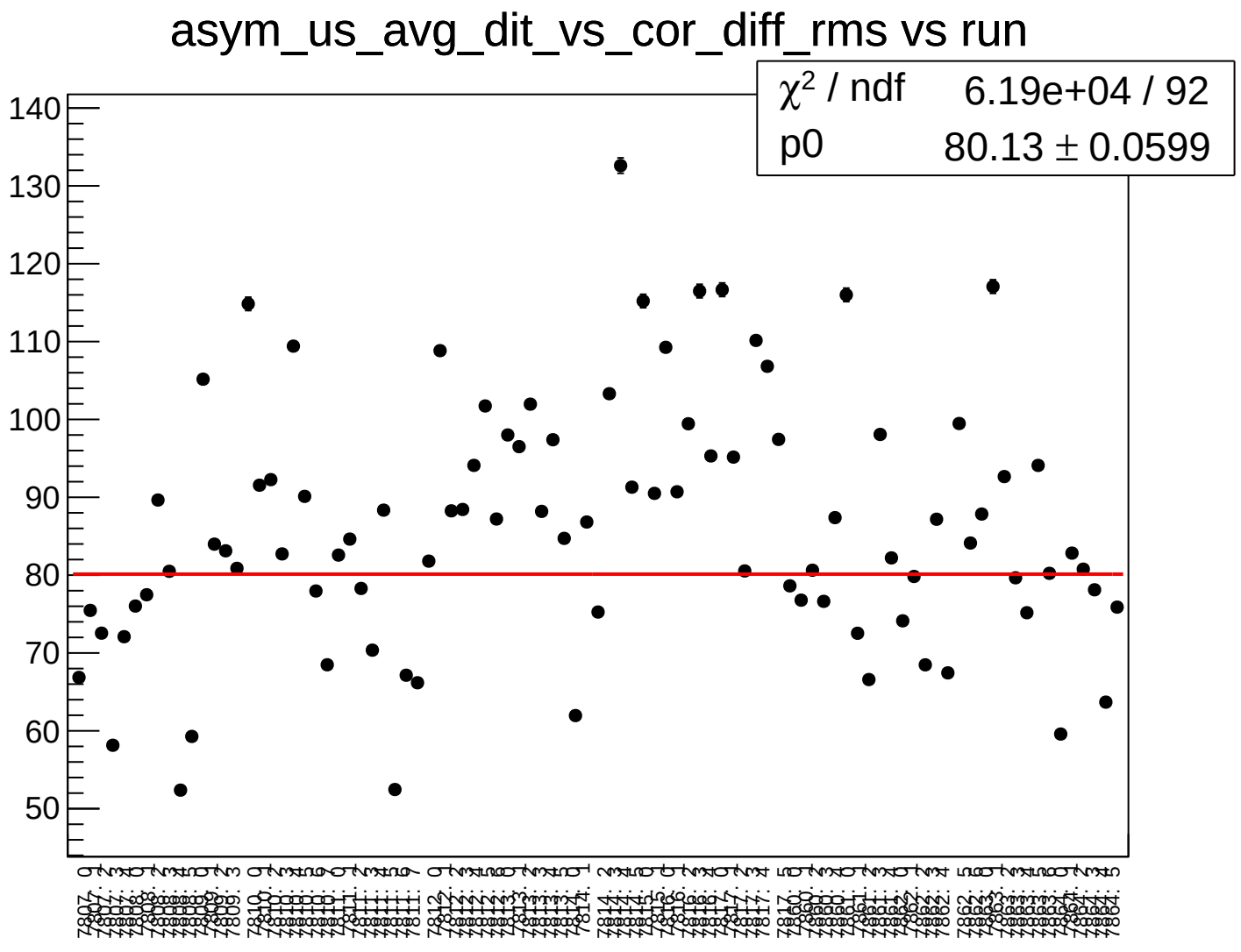

pull1D
Entries 93
Mean −0.009494
Std Dev 1.014
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

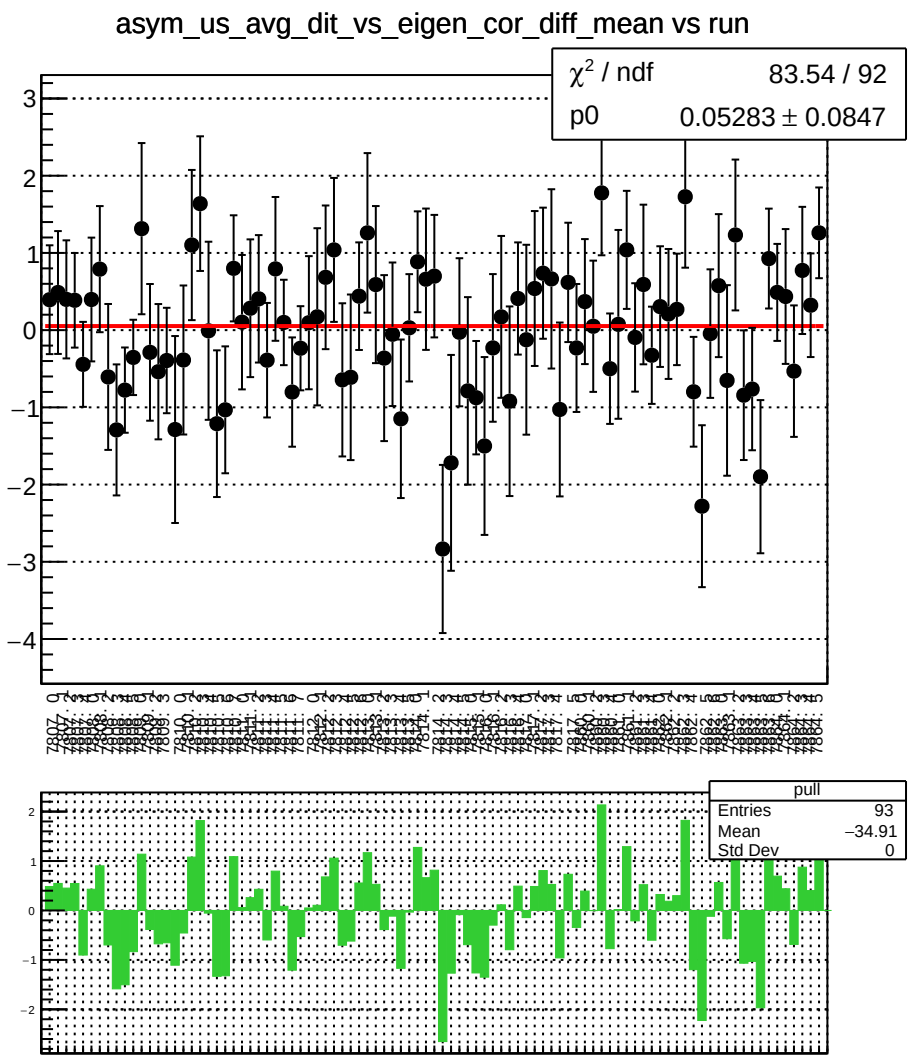

asym_us_avg_rms vs run
χ² / ndf 2.822e+04 / 92
p0 1982 ± 1.468
2600
2400
2200
2000
1800
1600

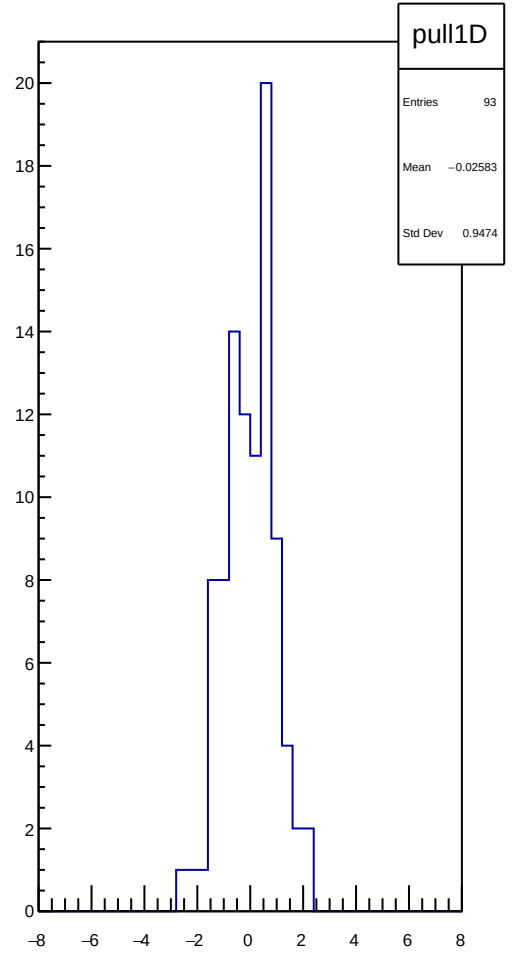

asym_us_avg_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 73.18 / 92
p0 4.134e−14 ± 2.658e−13
30
20
10
0
−10
−20
pull
Entries 93
Mean 68.31
Std Dev 21.62
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean 0.1389
Std Dev 0.8761
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

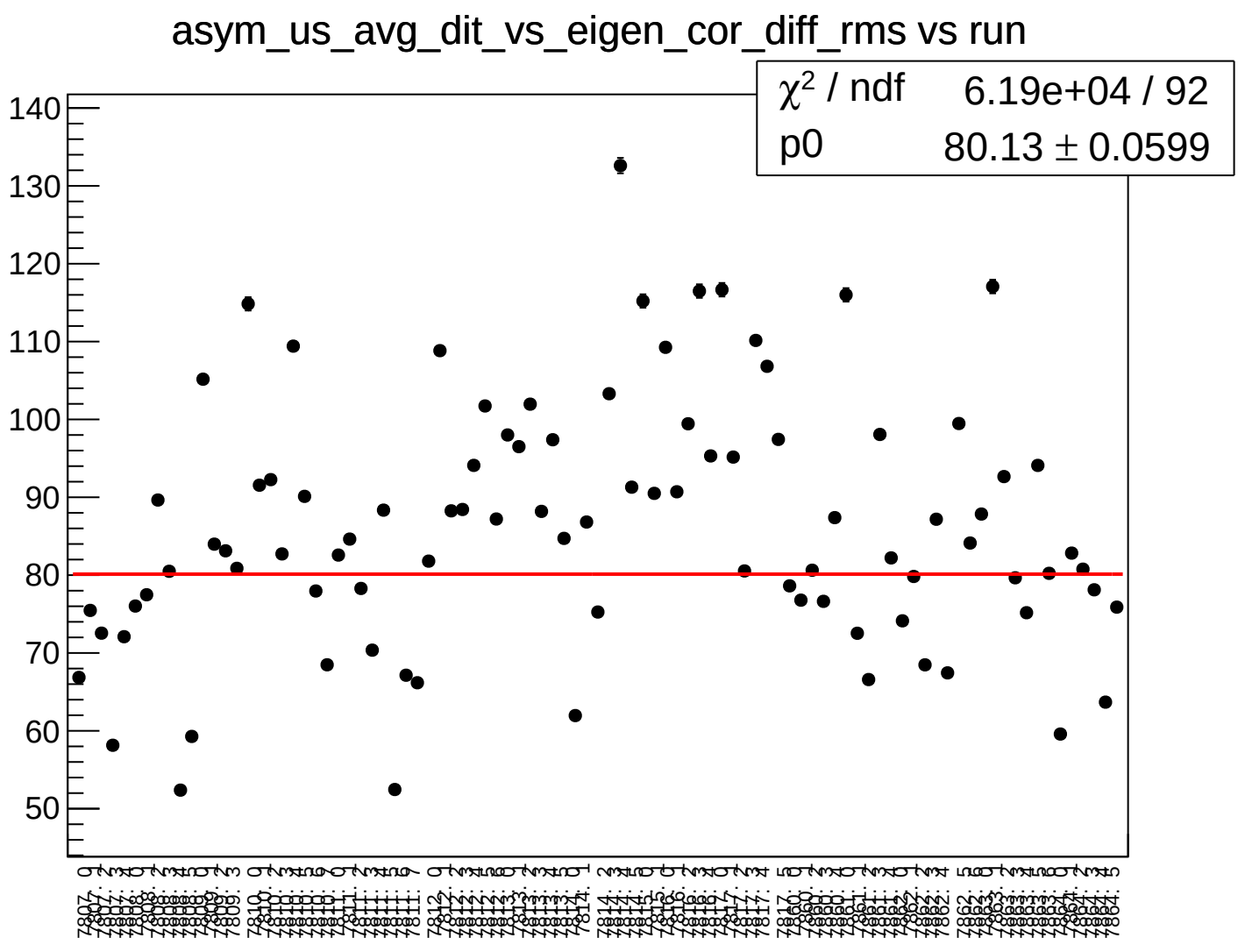

asym_us_avg_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.761e+05 / 92
p0 1.949e−10 ± 1.88e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

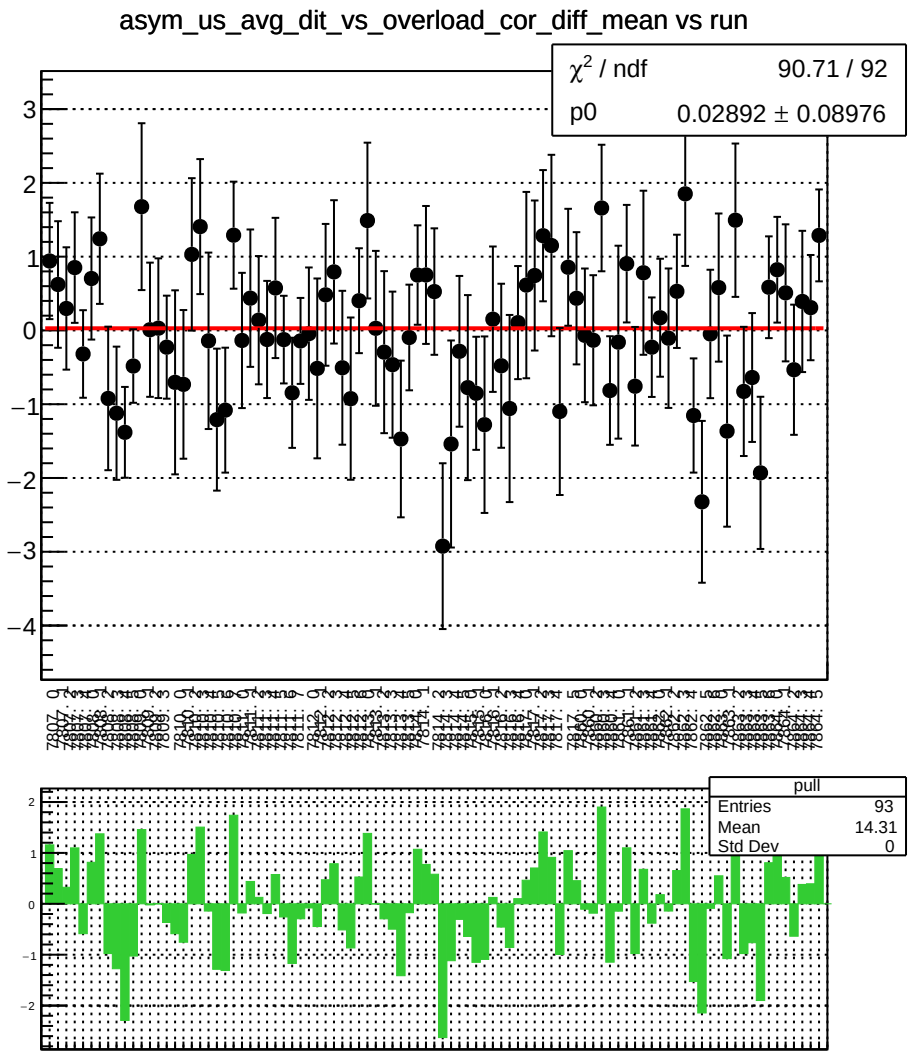

asym_us_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 83.54 / 92
p0 0.05283 ± 0.0847
pull
Entries 93
Mean −34.91
Std Dev 0
pull1D
Entries 93
Mean −0.02583
Std Dev 0.9474

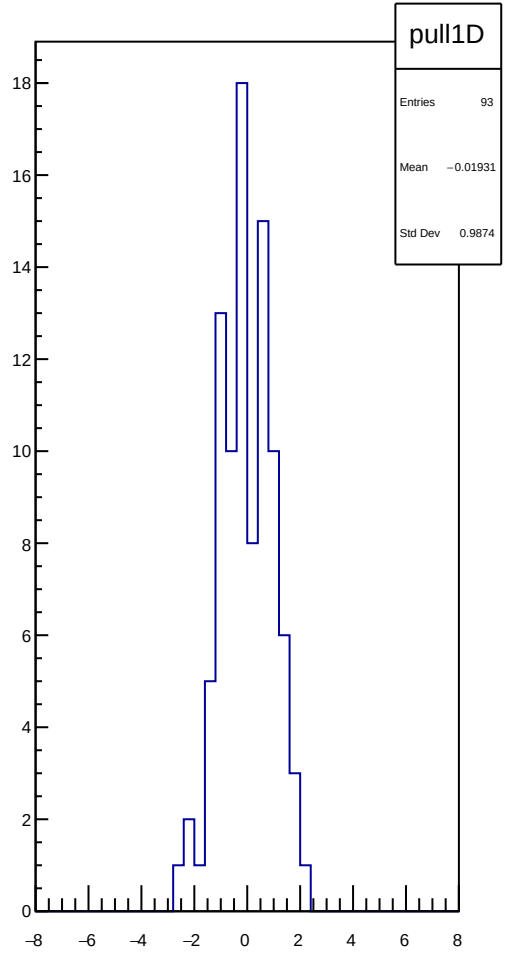

asym_us_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.19e+04 / 92
p0 80.13 ± 0.0599
140
130
120
110
100
90
80
70
60
50

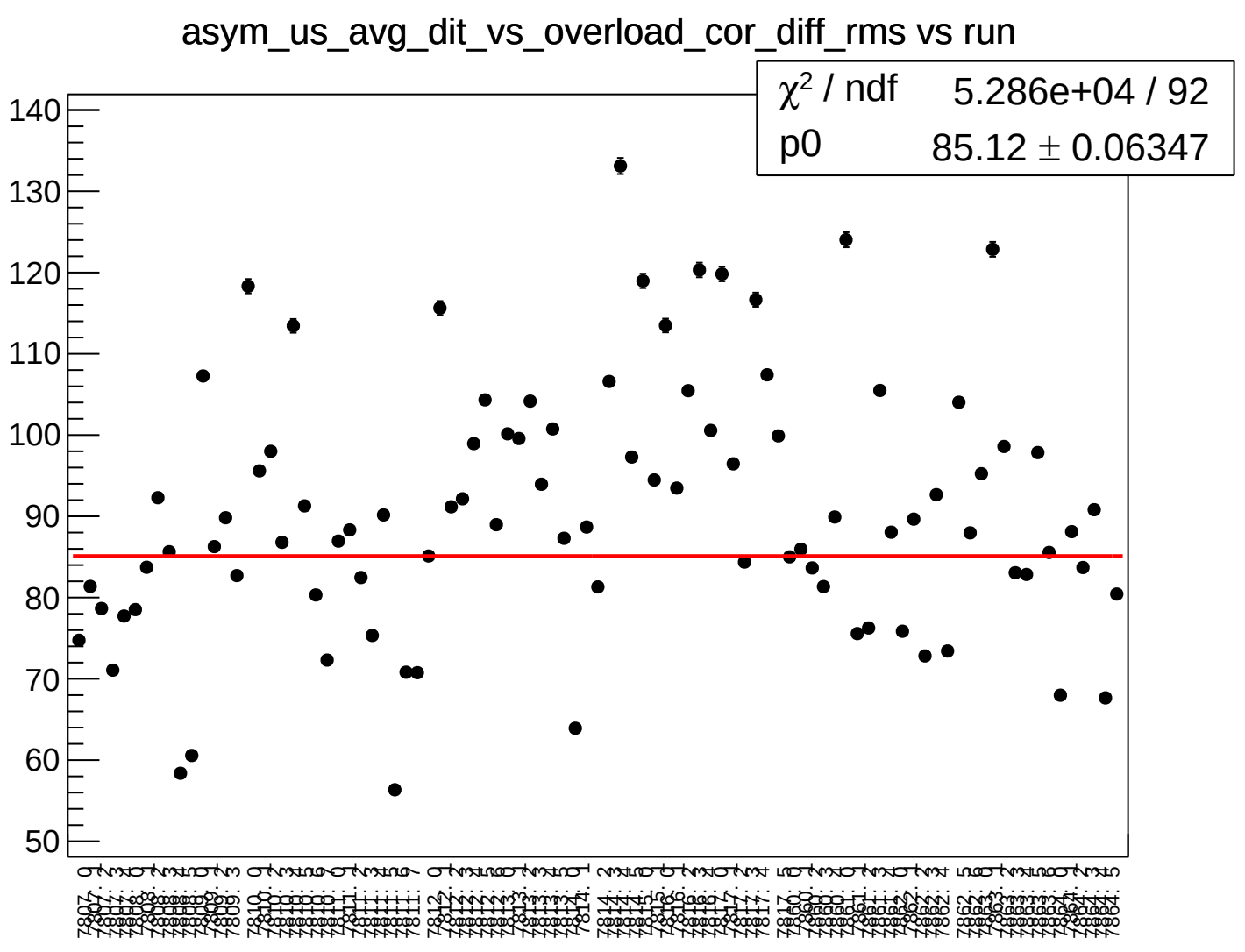

asym_us_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.54 / 92
p0 0.05283 ± 0.0847
pull
Entries 93
Mean −34.91
Std Dev 0

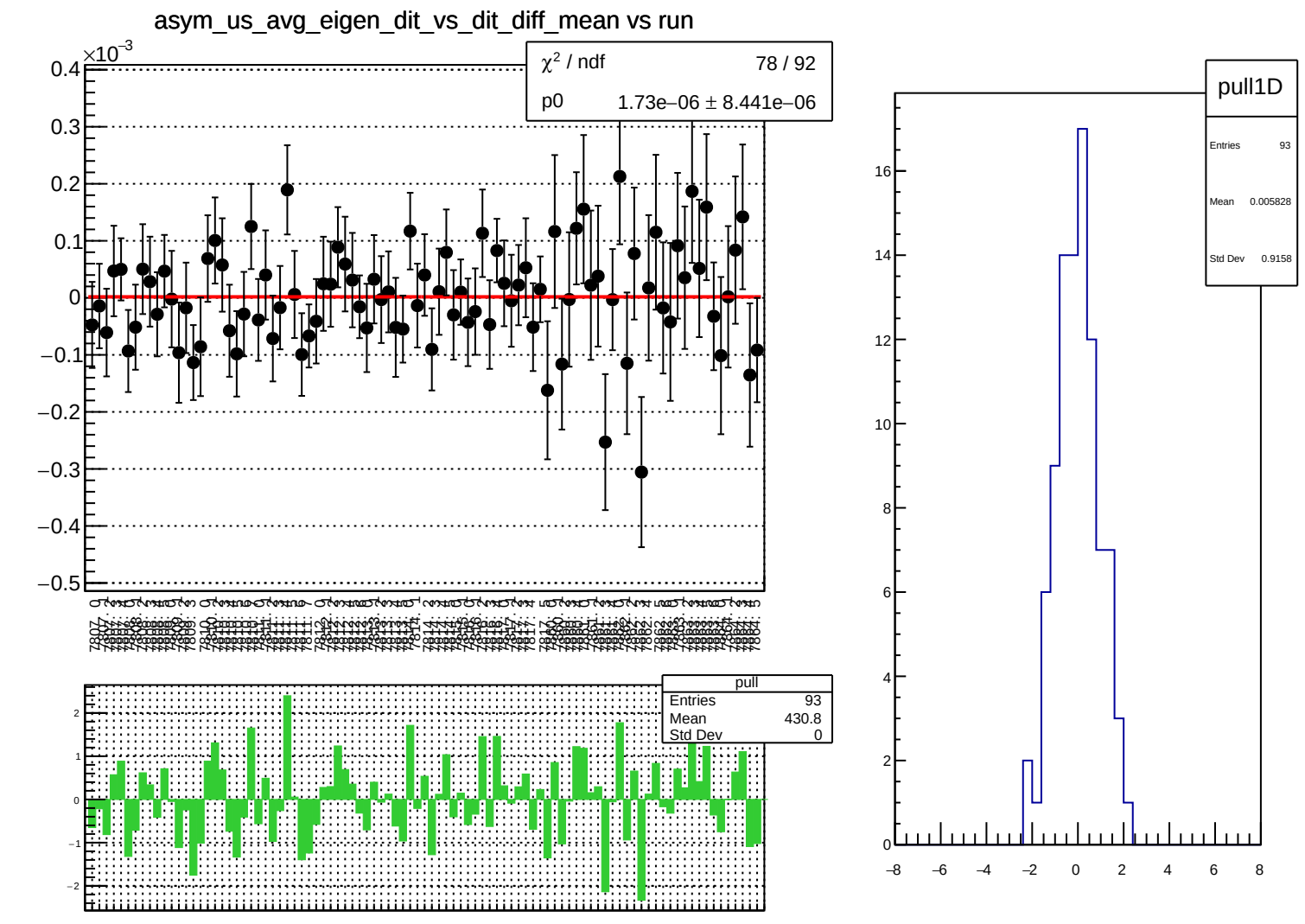

pull1D
Entries 93
Mean −0.02583
Std Dev 0.9474

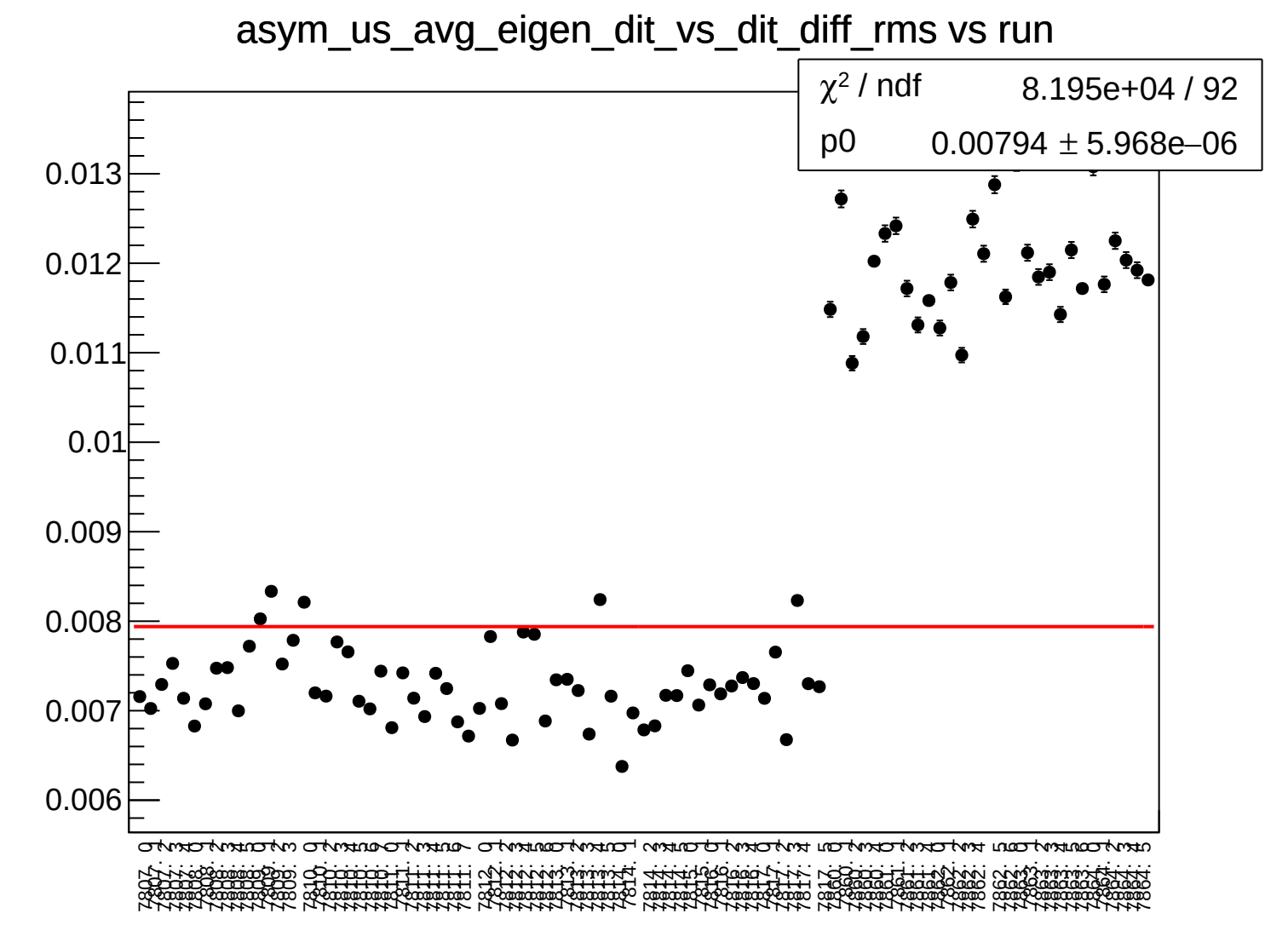

asym_us_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.19e+04 / 92
p0 80.13 ± 0.0599
140
130
120
110
100
90
80
70
60
50

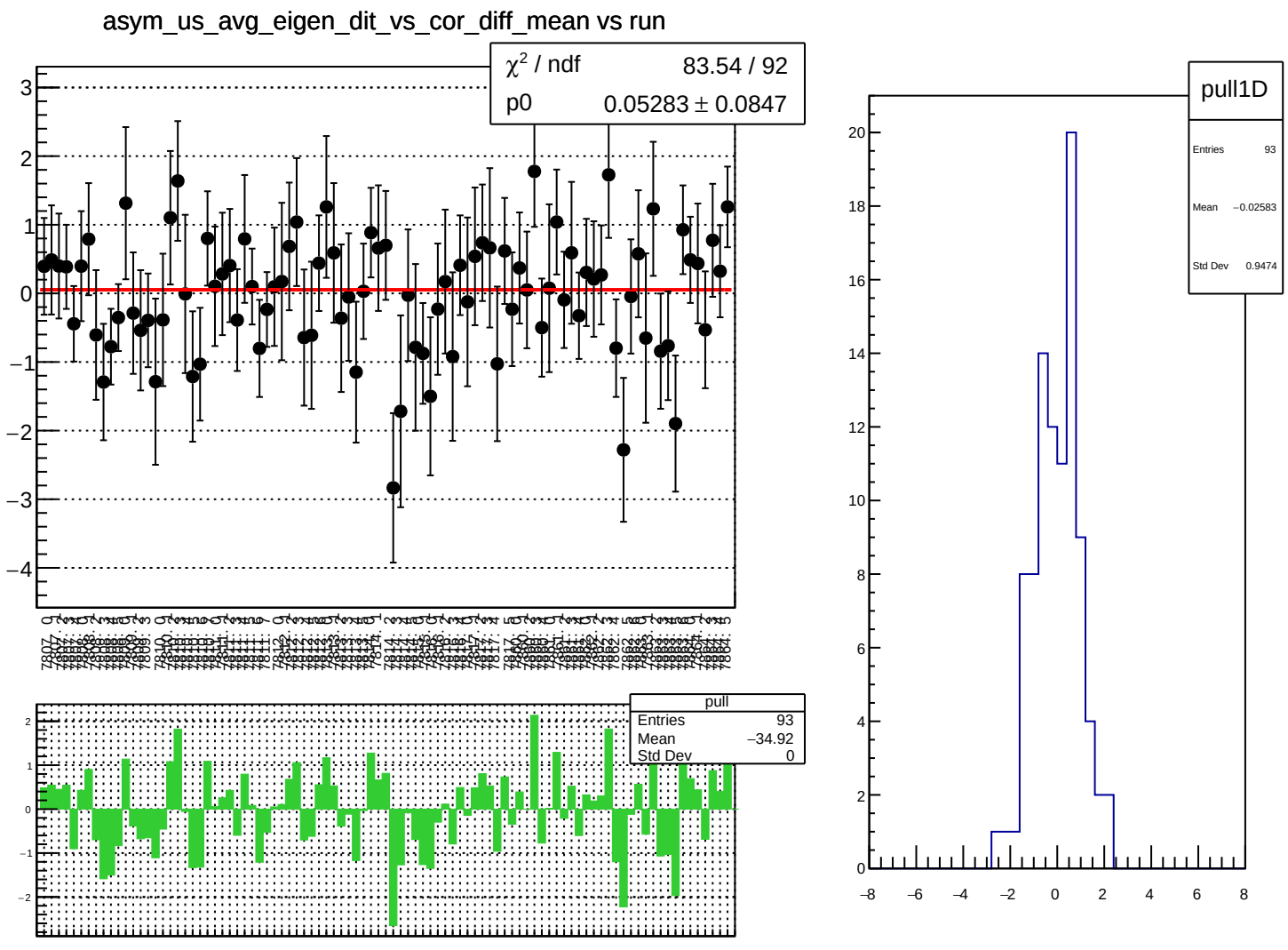

asym_us_avg_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 90.71 / 92
p0 0.02892 ± 0.08976
pull
Entries 93
Mean 14.31
Std Dev 0

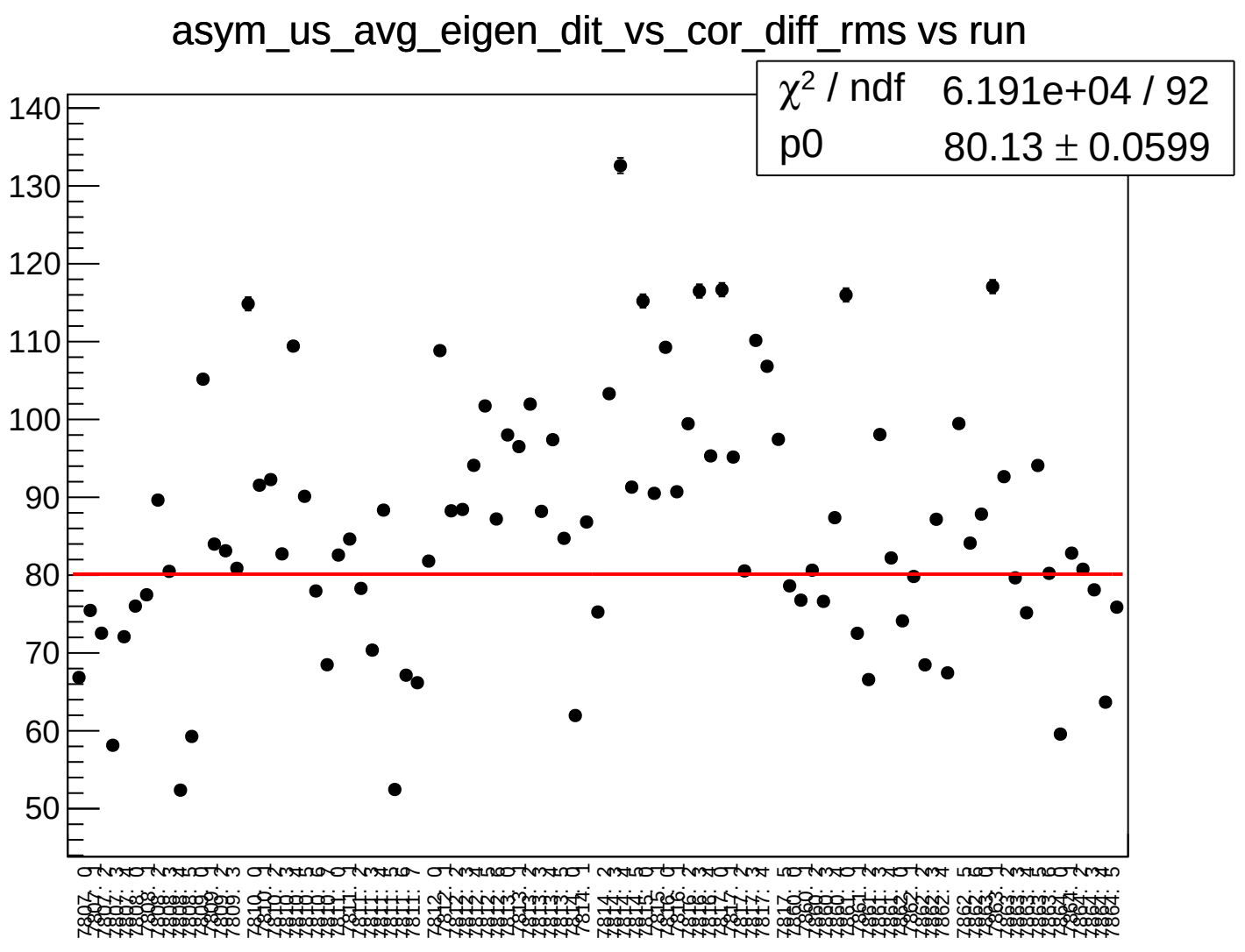

pull1D
Entries 93
Mean −0.01931
Std Dev 0.9874

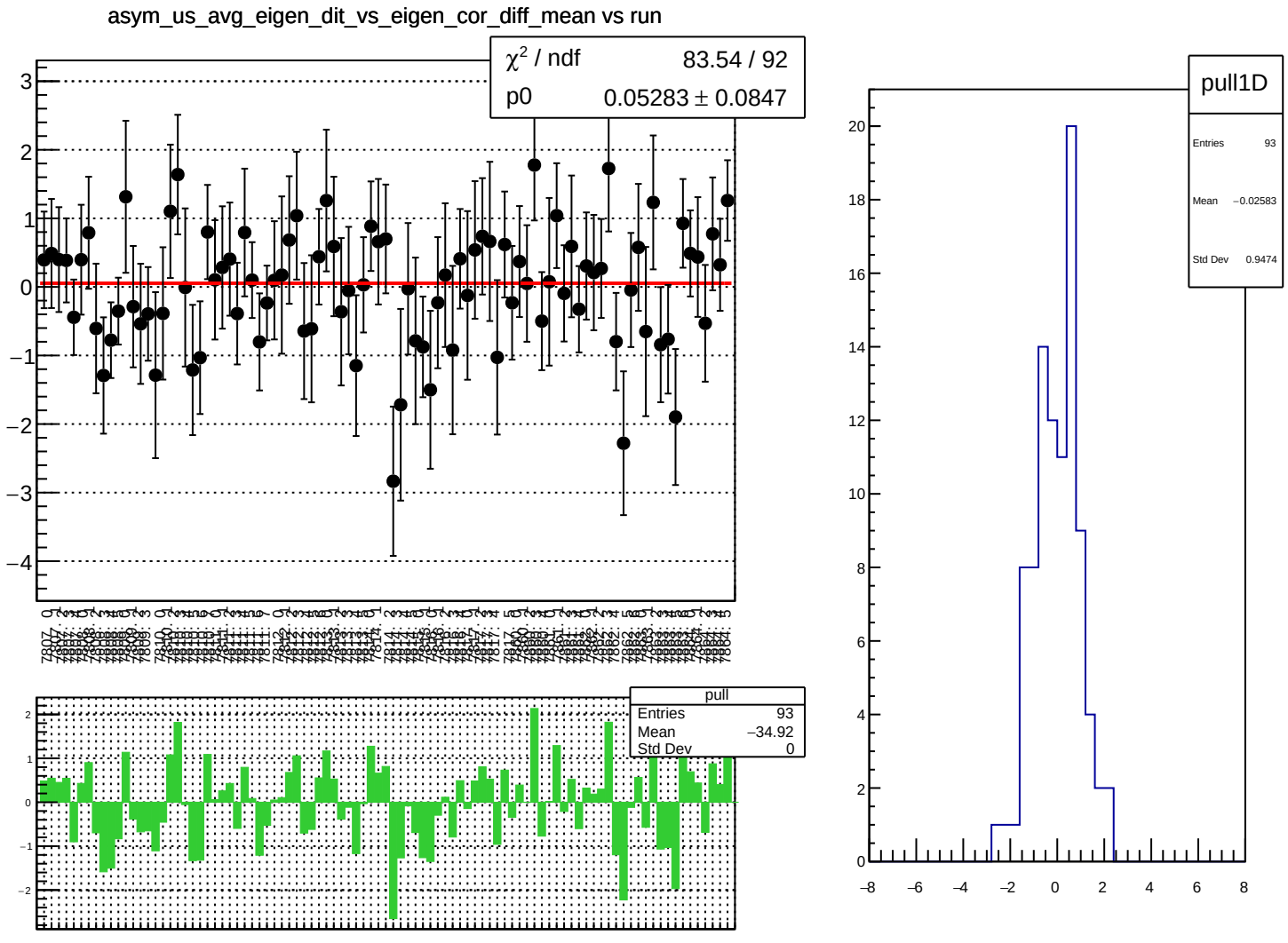

asym_us_avg_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 5.286e+04 / 92
p0 85.12 ± 0.06347
140
130
120
110
100
90
80
70
60
50

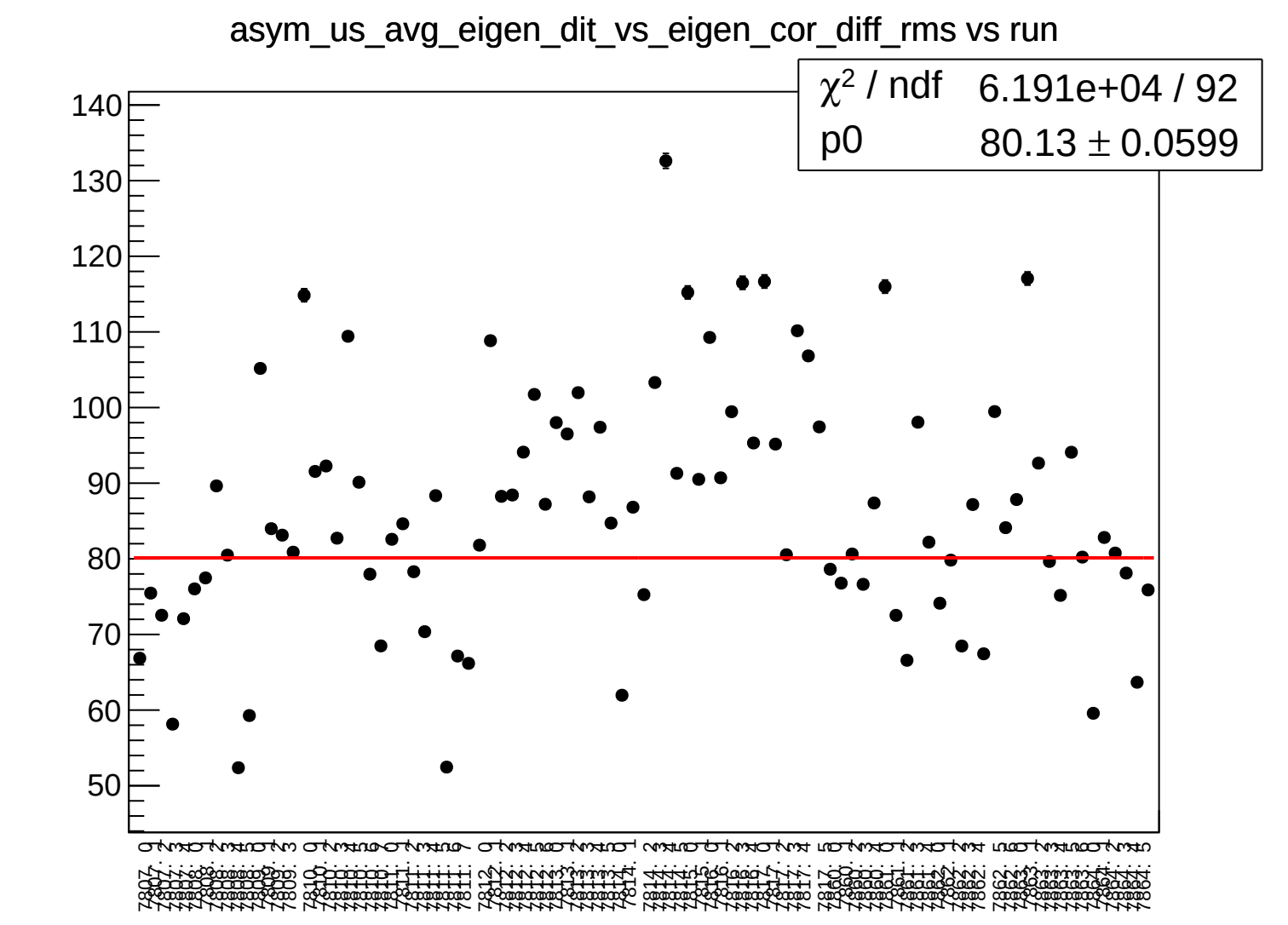

asym_us_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 78 / 92
p0 1.73e−06 ± 8.441e−06
pull
Entries 93
Mean 430.8
Std Dev 0
pull1D
Entries 93
Mean 0.005828
Std Dev 0.9158

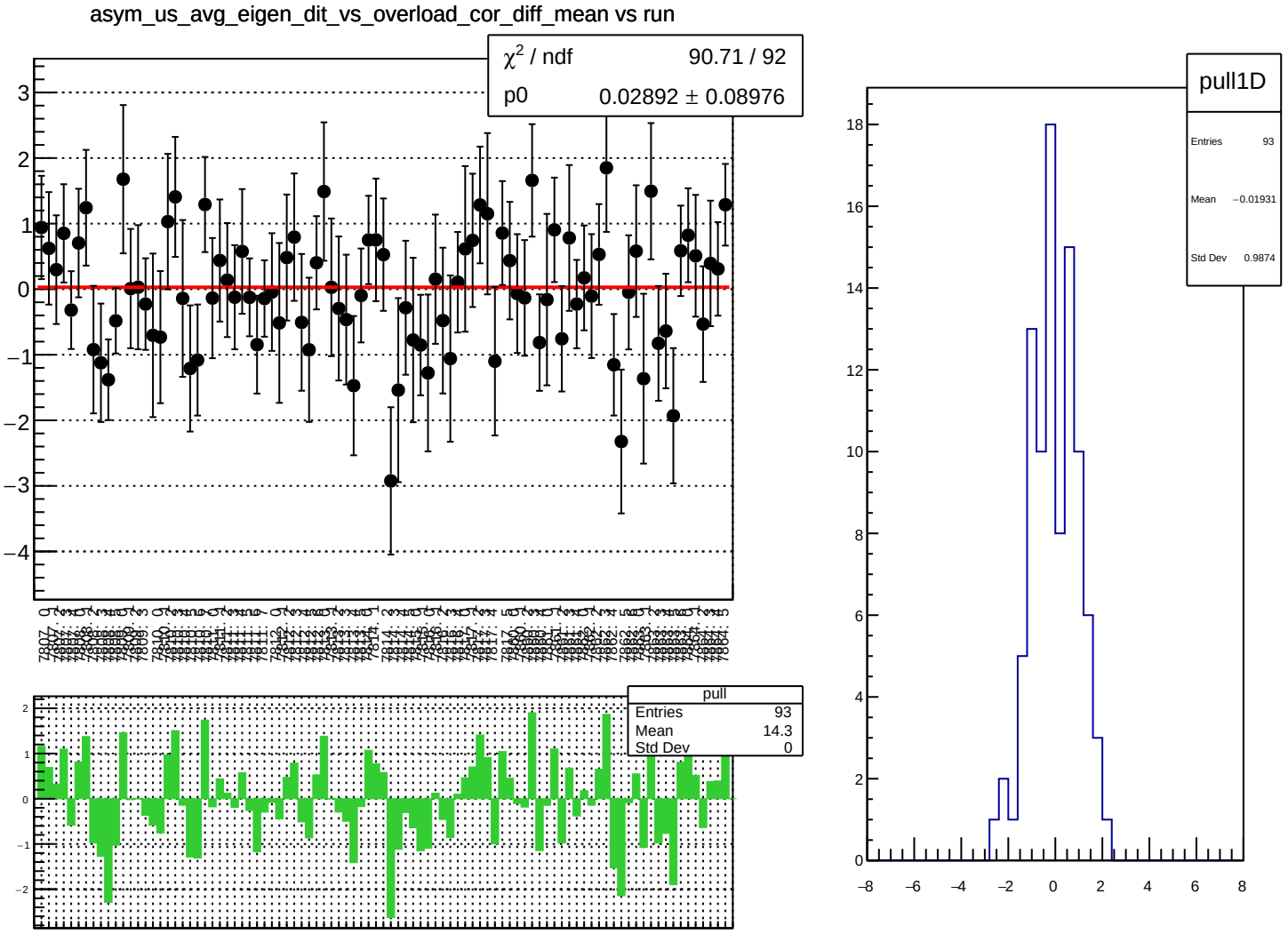

asym_us_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.195e+04 / 92
p0 0.00794 ± 5.968e−06
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006

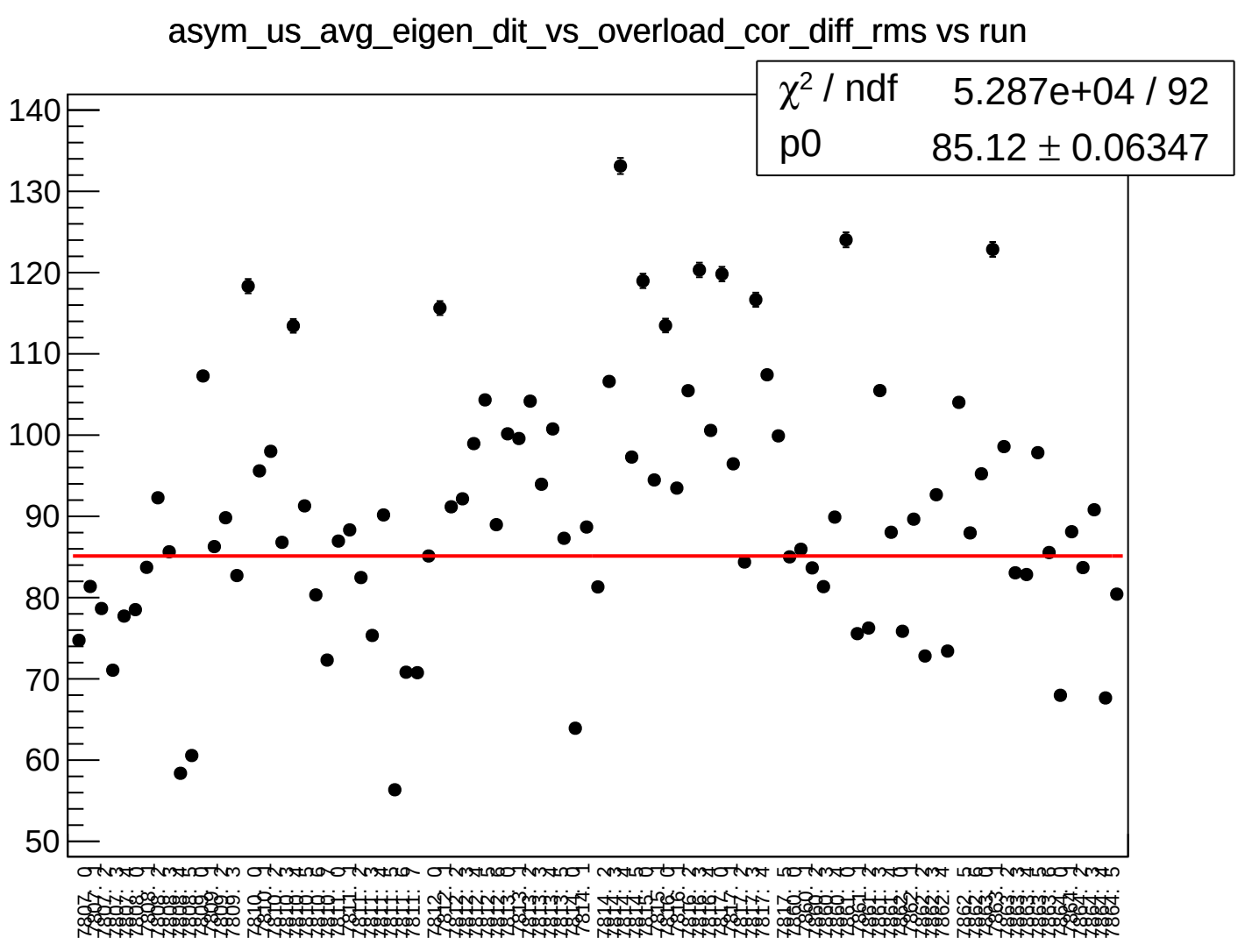

asym_us_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.54 / 92
p0 0.05283 ± 0.0847
pull
Entries 93
Mean −34.92
Std Dev 0
pull1D
Entries 93
Mean −0.02583
Std Dev 0.9474

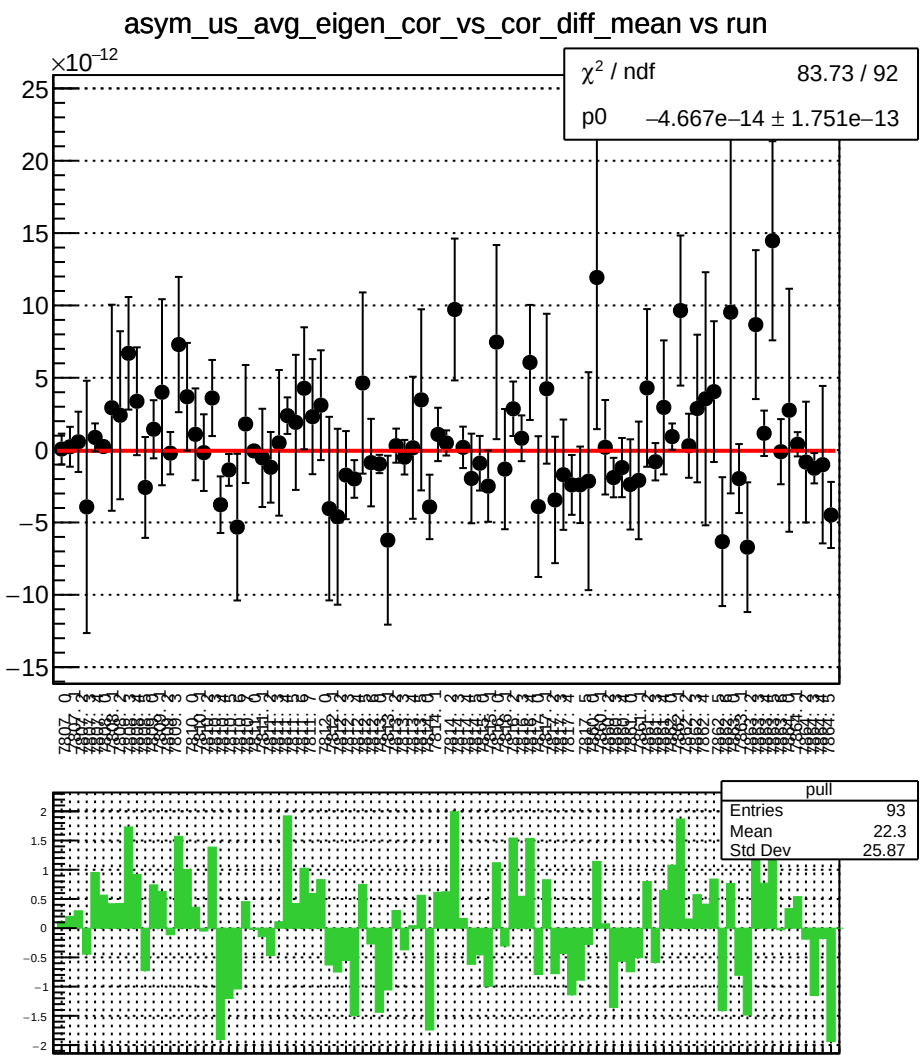

asym_us_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.191e+04 / 92
p0 80.13 ± 0.0599
140
130
120
110
100
90
80
70
60
50

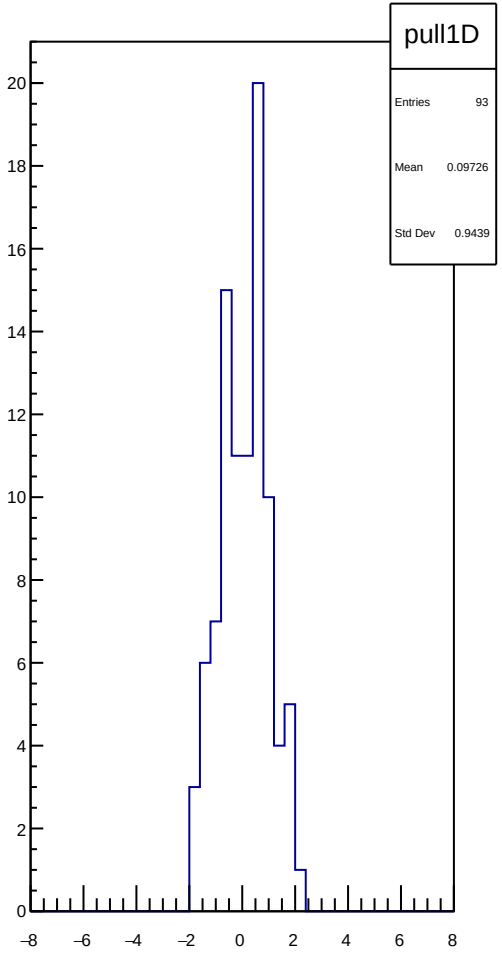

asym_us_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.54 / 92
p0 0.05283 ± 0.0847
pull
Entries 93
Mean −34.92
Std Dev 0
pull1D
Entries 93
Mean −0.02583
Std Dev 0.9474

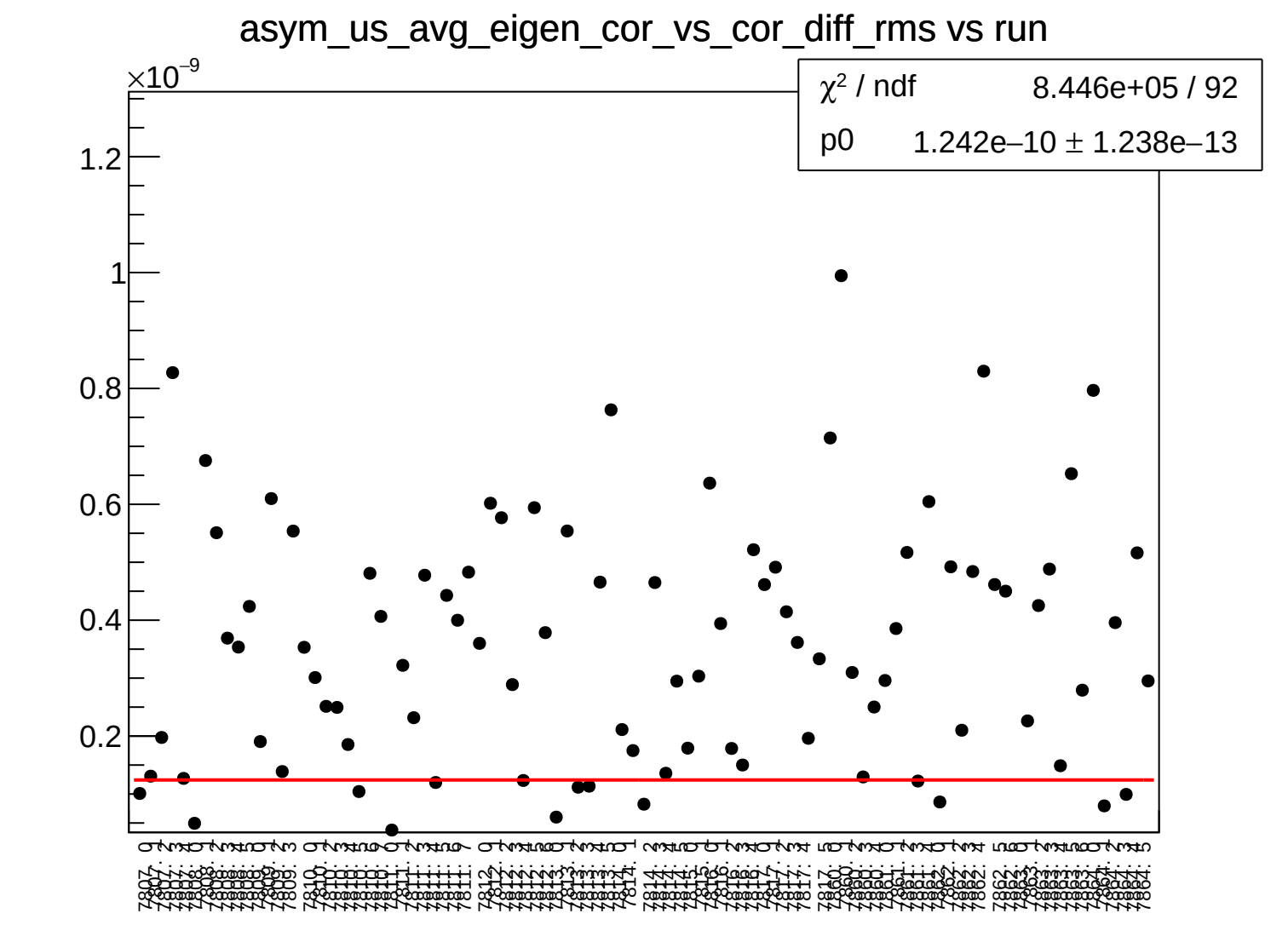

asym_us_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.191e+04 / 92
p0 80.13 ± 0.0599
140
130
120
110
100
90
80
70
60
50

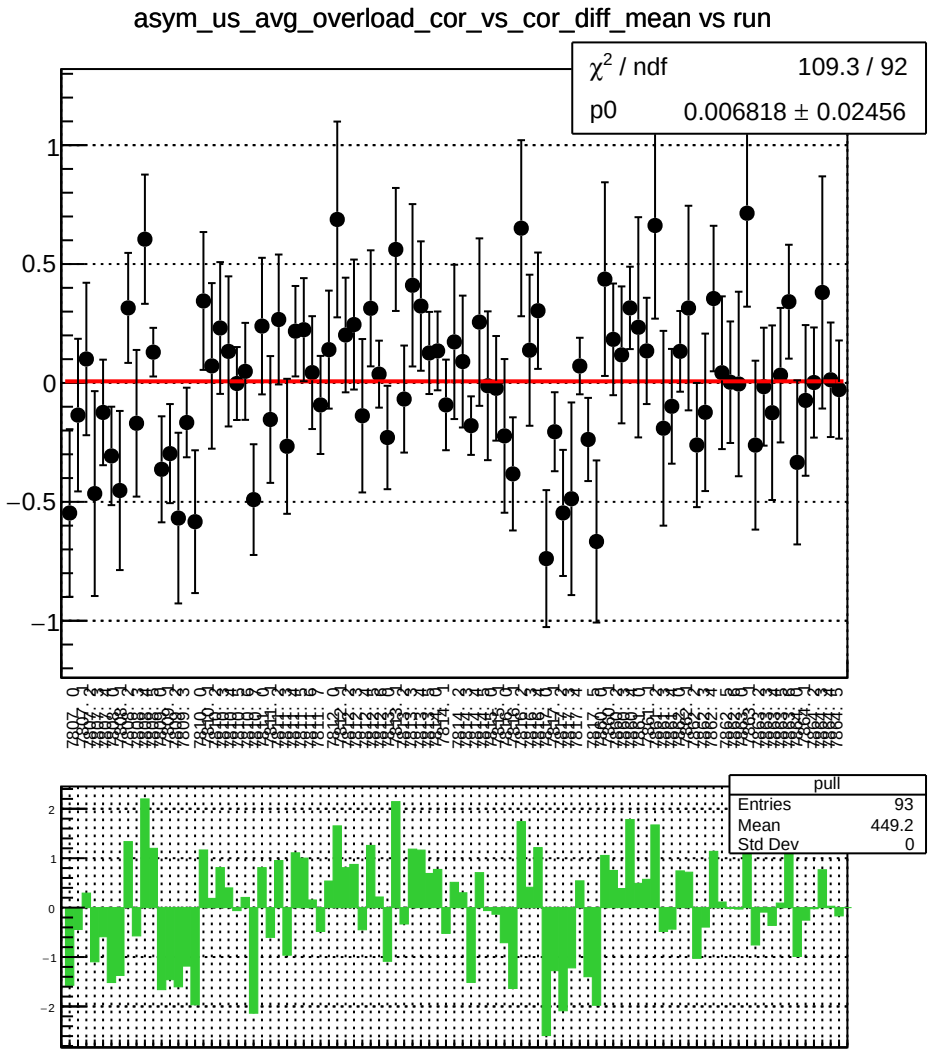

asym_us_avg_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 90.71 / 92
p0 0.02892 ± 0.08976
pull
Entries 93
Mean 14.3
Std Dev 0
pull1D
Entries 93
Mean −0.01931
Std Dev 0.9874

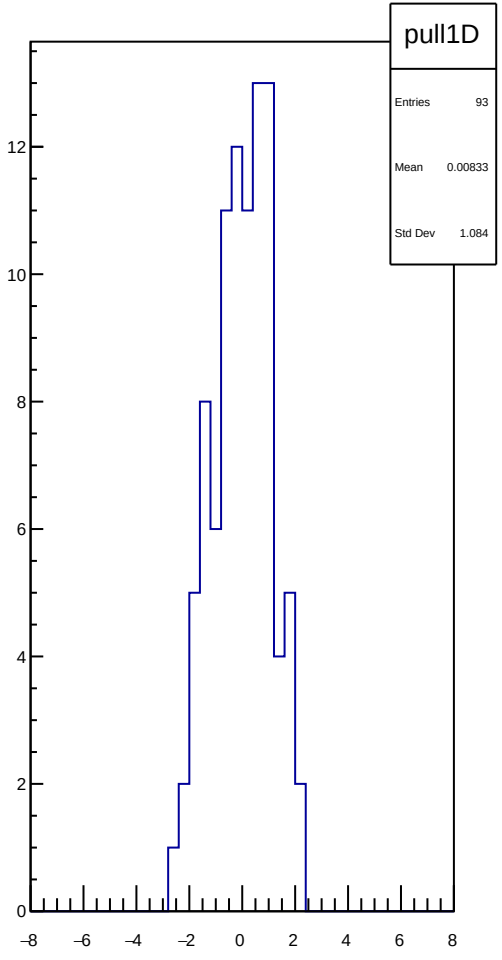

asym_us_avg_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 5.287e+04 / 92
p0 85.12 ± 0.06347
140
130
120
110
100
90
80
70
60
50

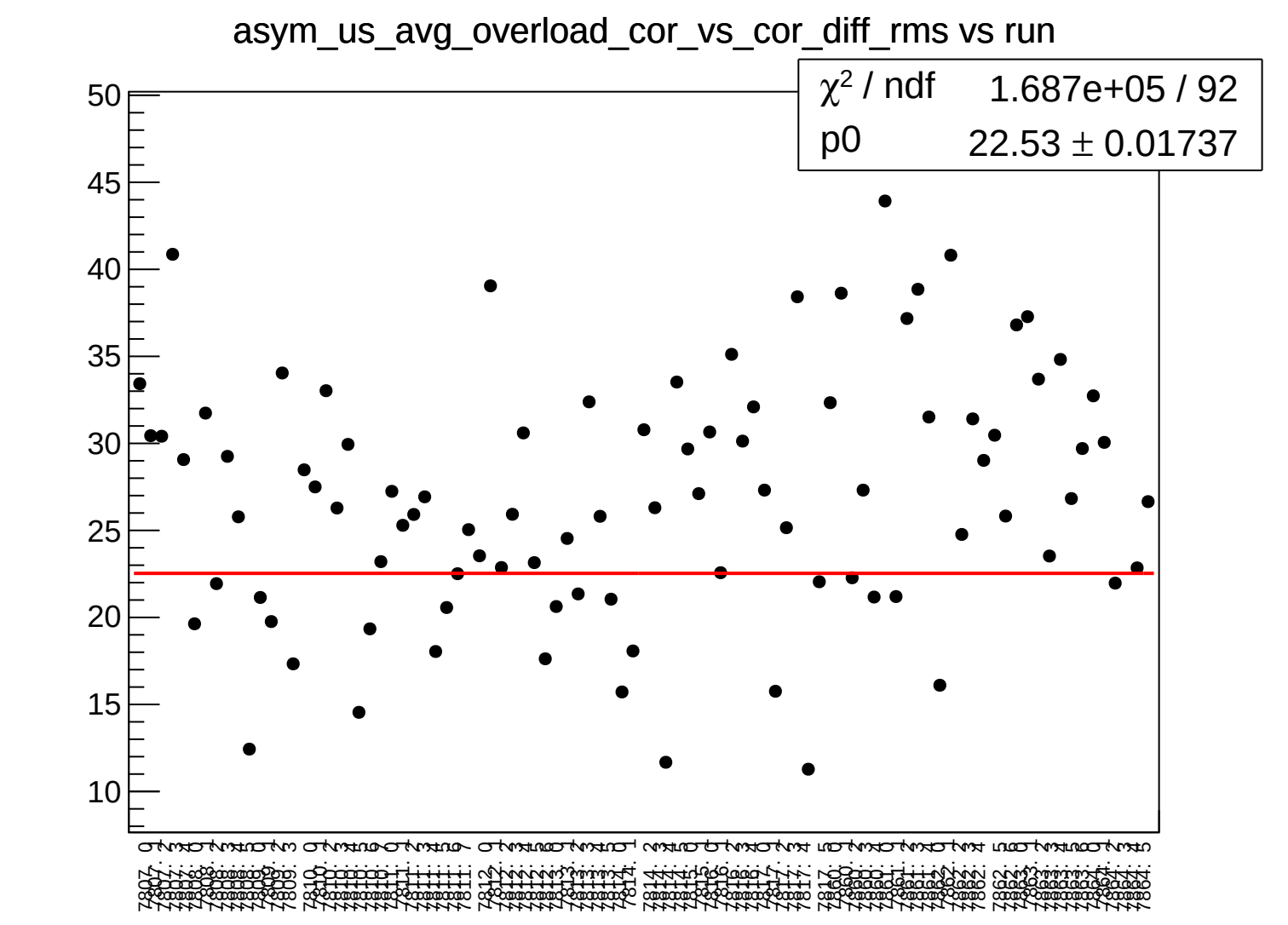

asym_us_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.73 / 92
p0 −4.667e−14 ± 1.751e−13
pull
Entries 93
Mean 22.3
Std Dev 25.87

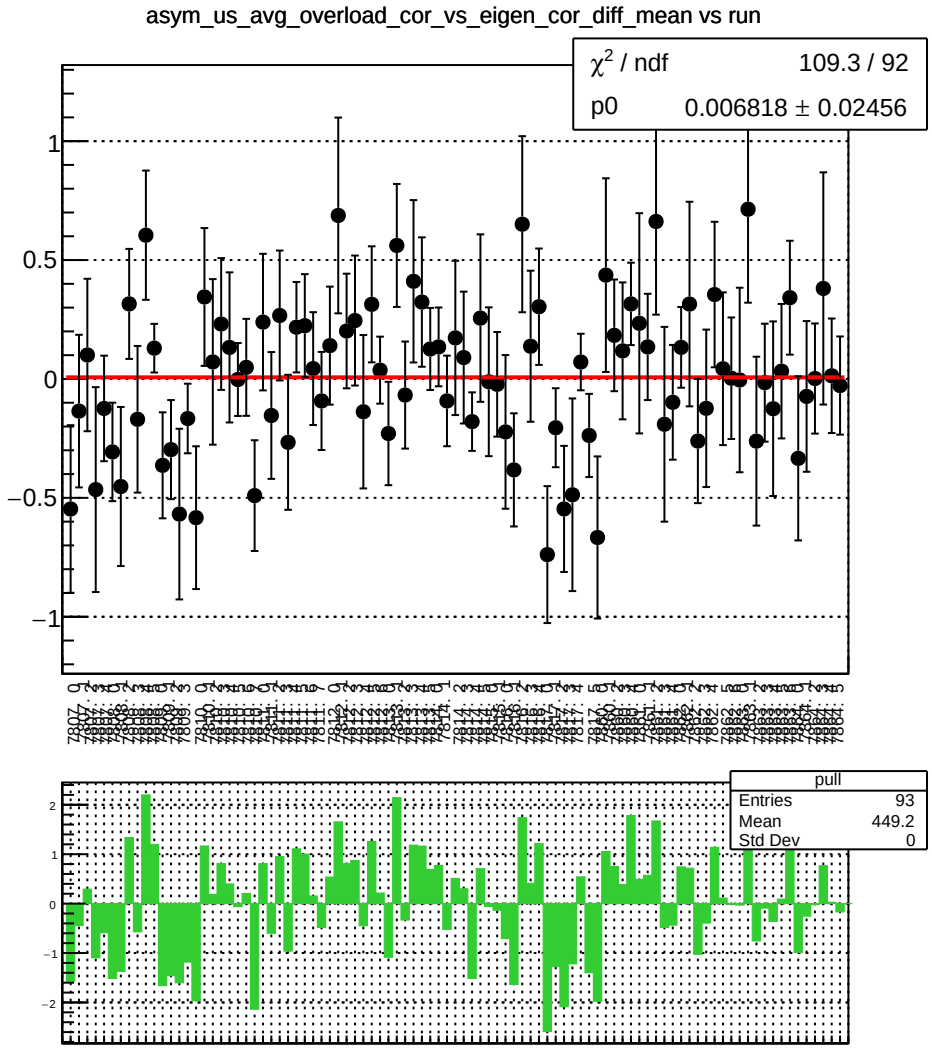

pull1D
Entries 93
Mean 0.09726
Std Dev 0.9439

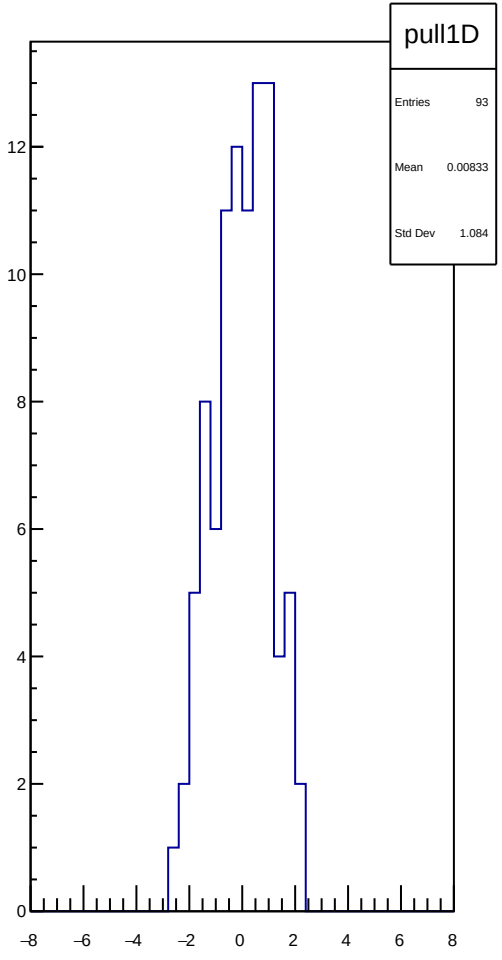

asym_us_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.446e+05 / 92
p0 1.242e−10 ± 1.238e−13
1.2
1
0.8
0.6
0.4
0.2

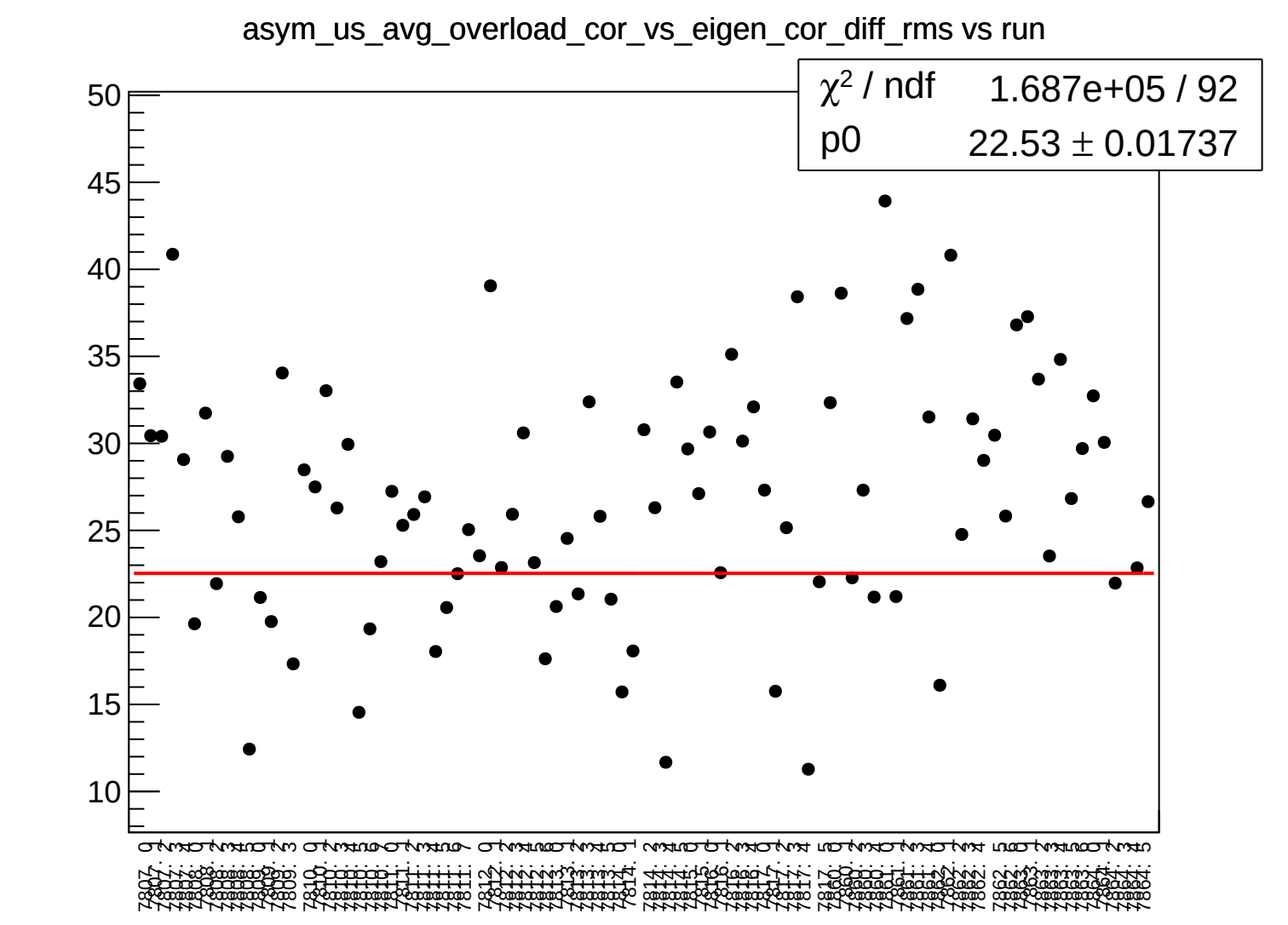

asym_us_avg_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 109.3 / 92
p0 0.006818 ± 0.02456
pull
Entries 93
Mean 449.2
Std Dev 0

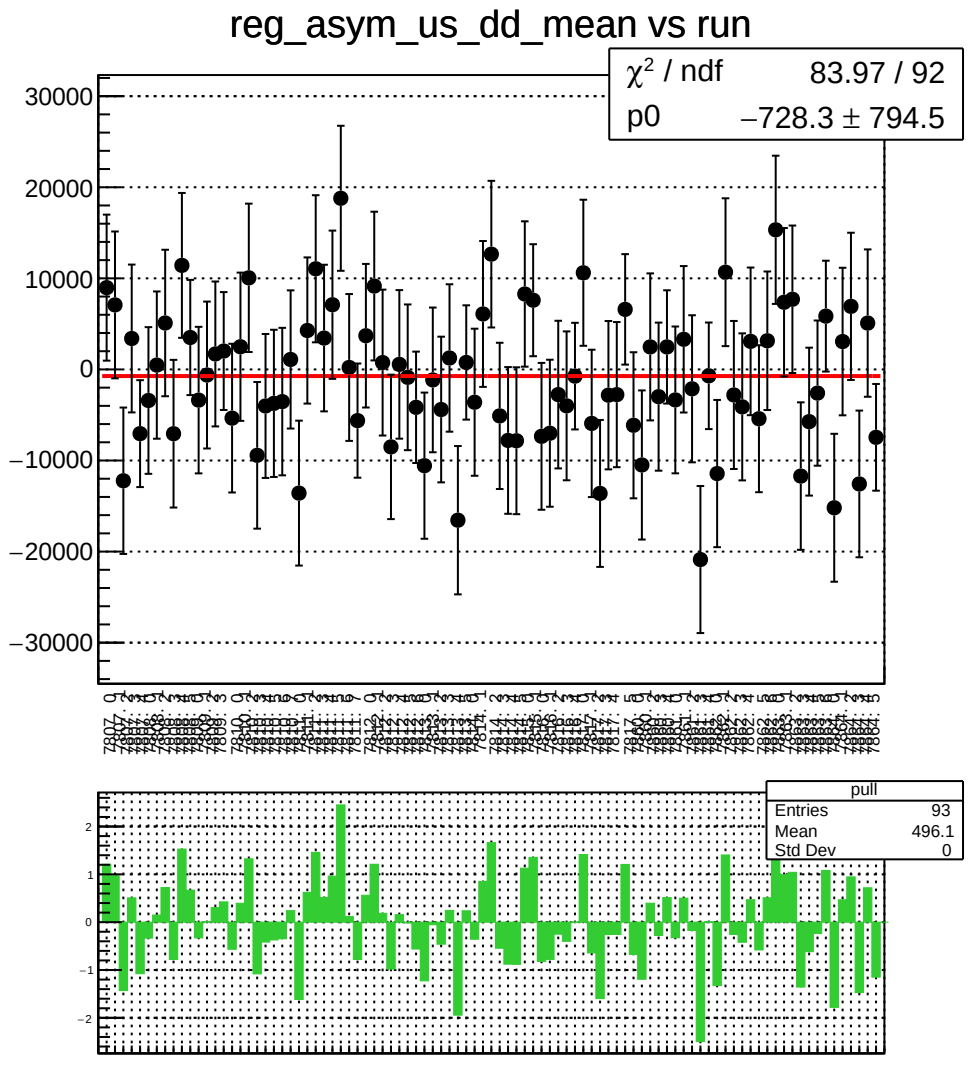

pull1D
Entries 93
Mean 0.00833
Std Dev 1.084

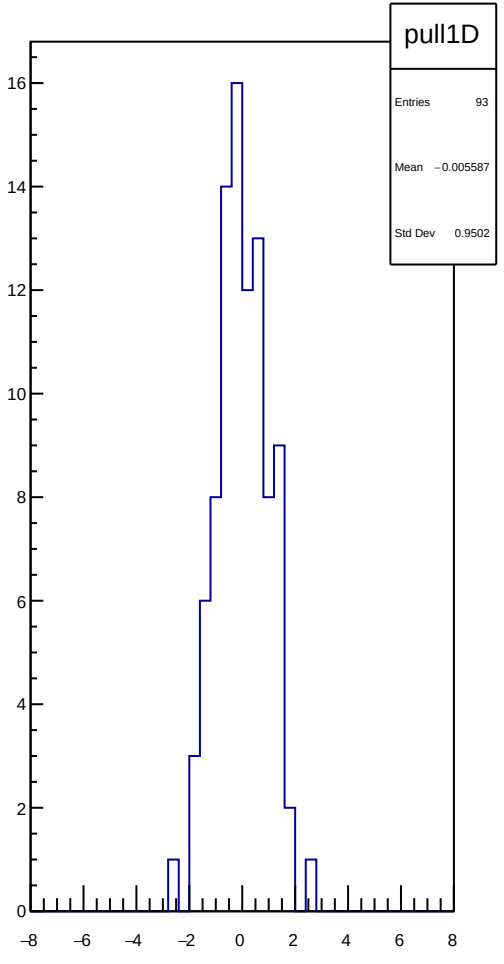

asym_us_avg_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.687e+05 / 92
p0 22.53 ± 0.01737
50
45
40
35
30
25
20
15
10

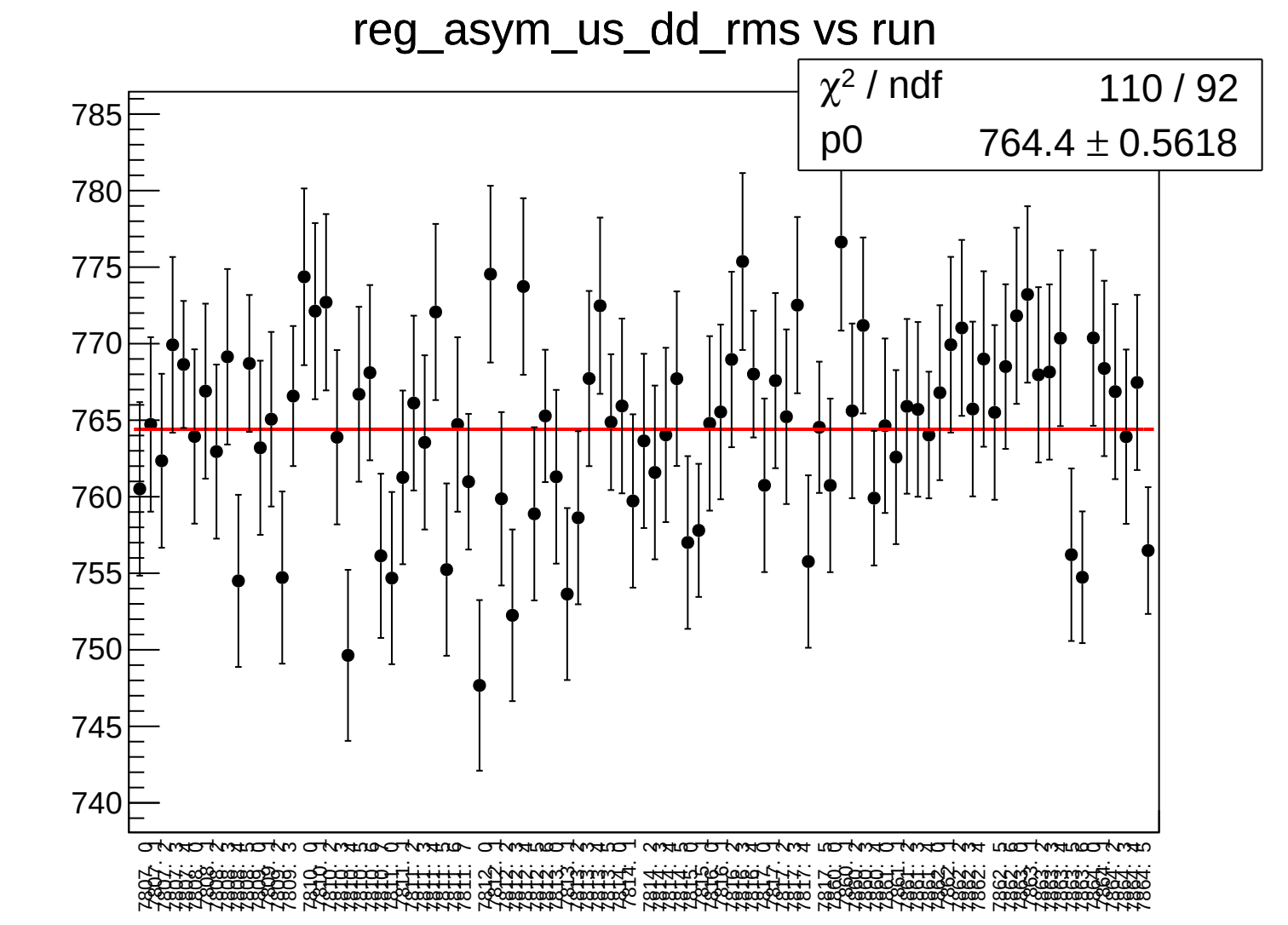

asym_us_avg_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.3 / 92
p0 0.006818 ± 0.02456
pull
Entries 93
Mean 449.2
Std Dev 0

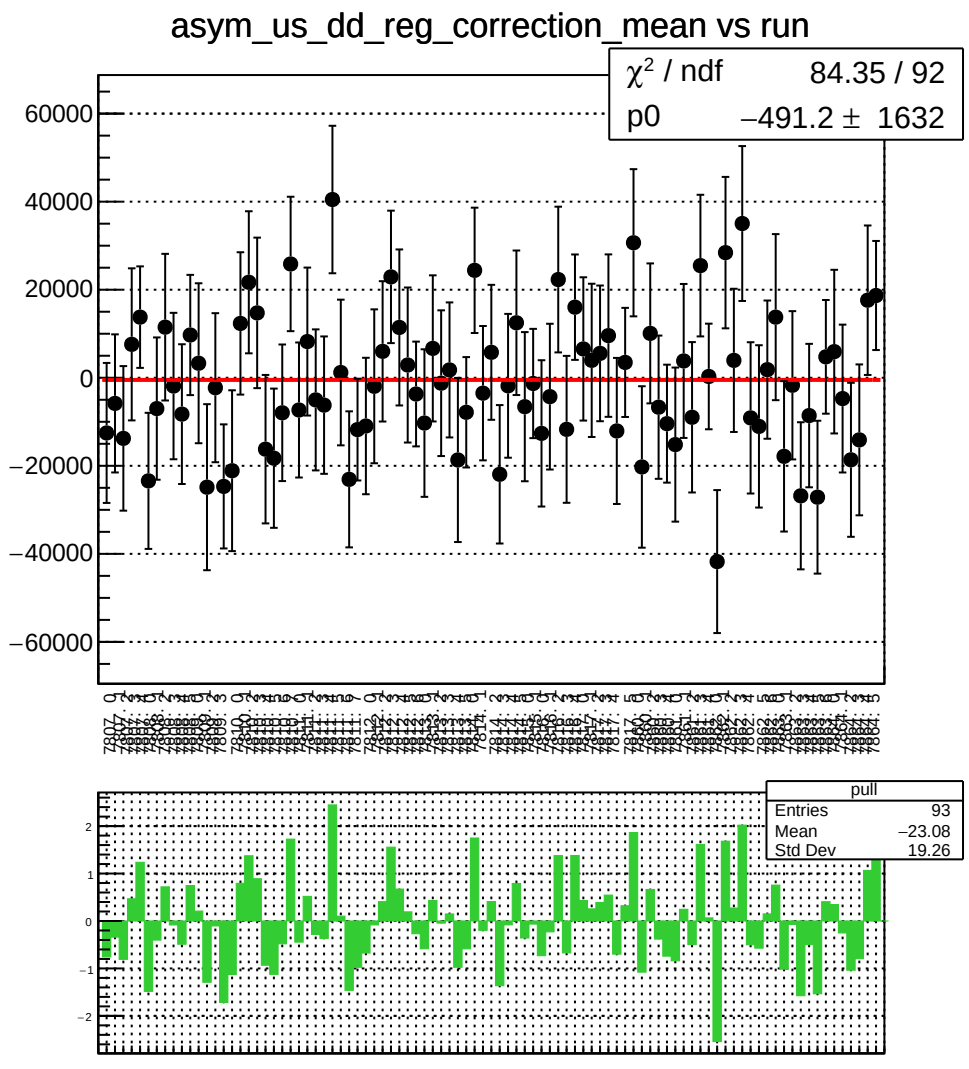

pull1D
Entries 93
Mean 0.00833
Std Dev 1.084

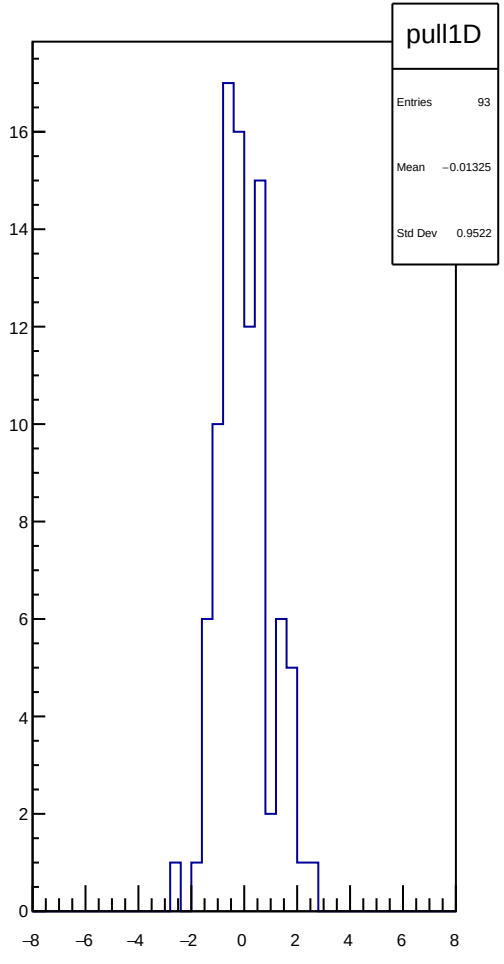

asym_us_avg_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.687e+05 / 92
p0 22.53 ± 0.01737
50
45
40
35
30
25
20
15
10

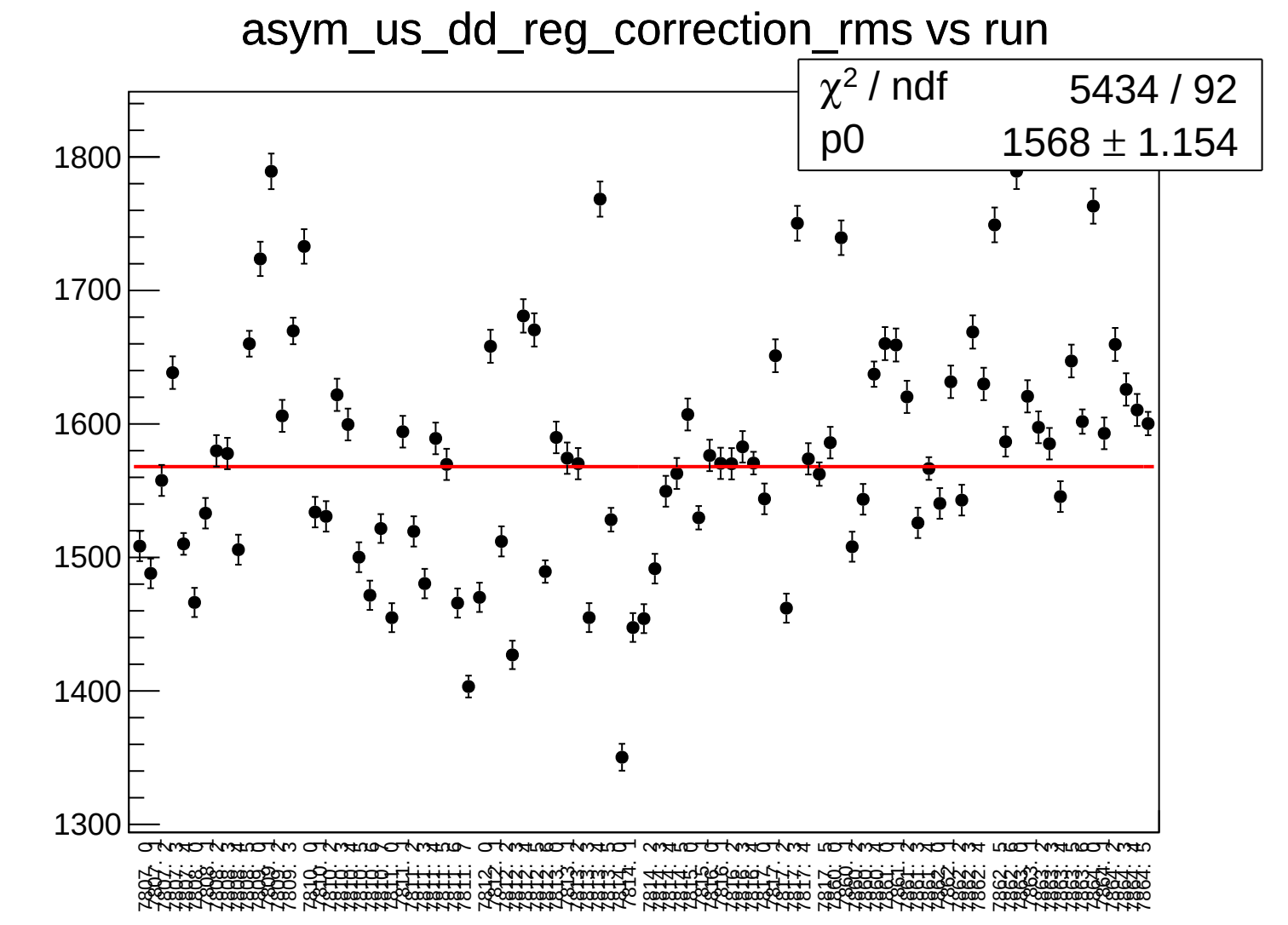

reg_asym_us_dd_mean vs run
χ² / ndf 83.97 / 92
p0 −728.3 ± 794.5
pull
Entries 93
Mean 496.1
Std Dev 0

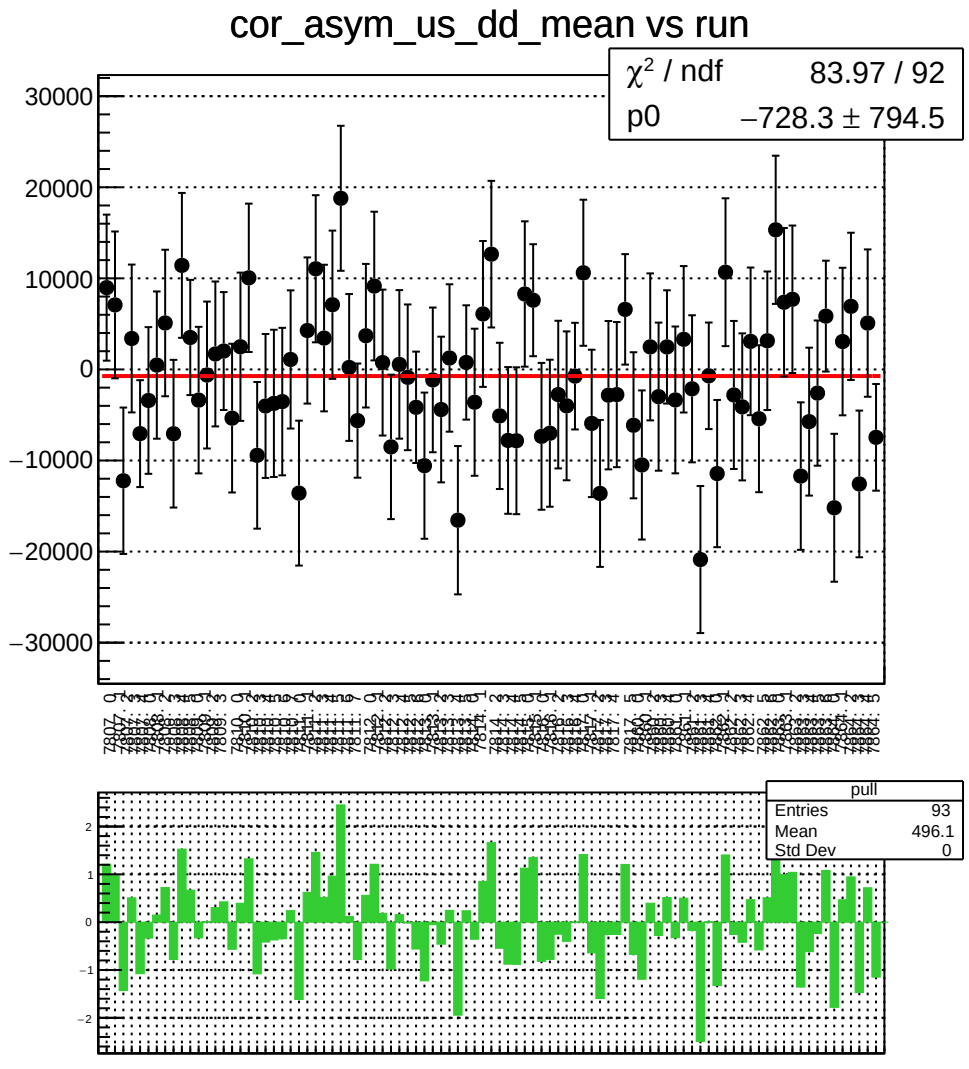

pull1D
Entries 93
Mean −0.005587
Std Dev 0.9502

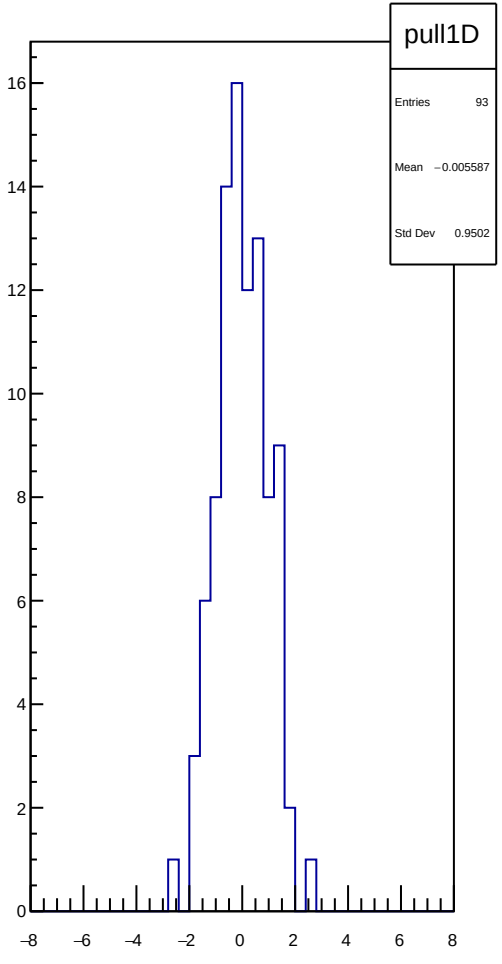

reg_asym_us_dd_rms vs run
χ² / ndf 110 / 92
p0 764.4 ± 0.5618
785
780
775
770
765
760
755
750
745
740

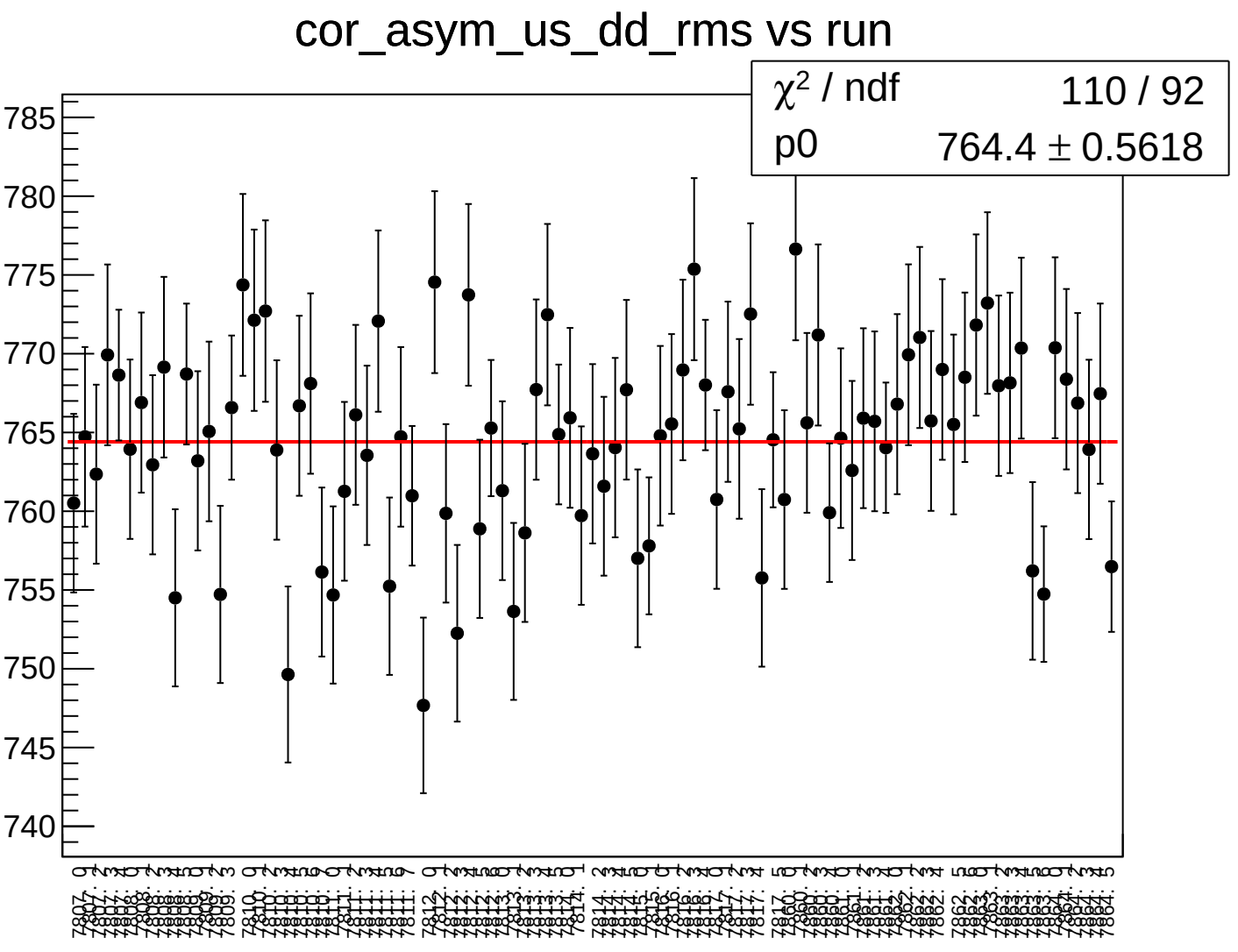

asym_us_dd_reg_correction_mean vs run
χ² / ndf 84.35 / 92
p0 −491.2 ± 1632
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −23.08
Std Dev 19.26
2
1
0
−1
−2

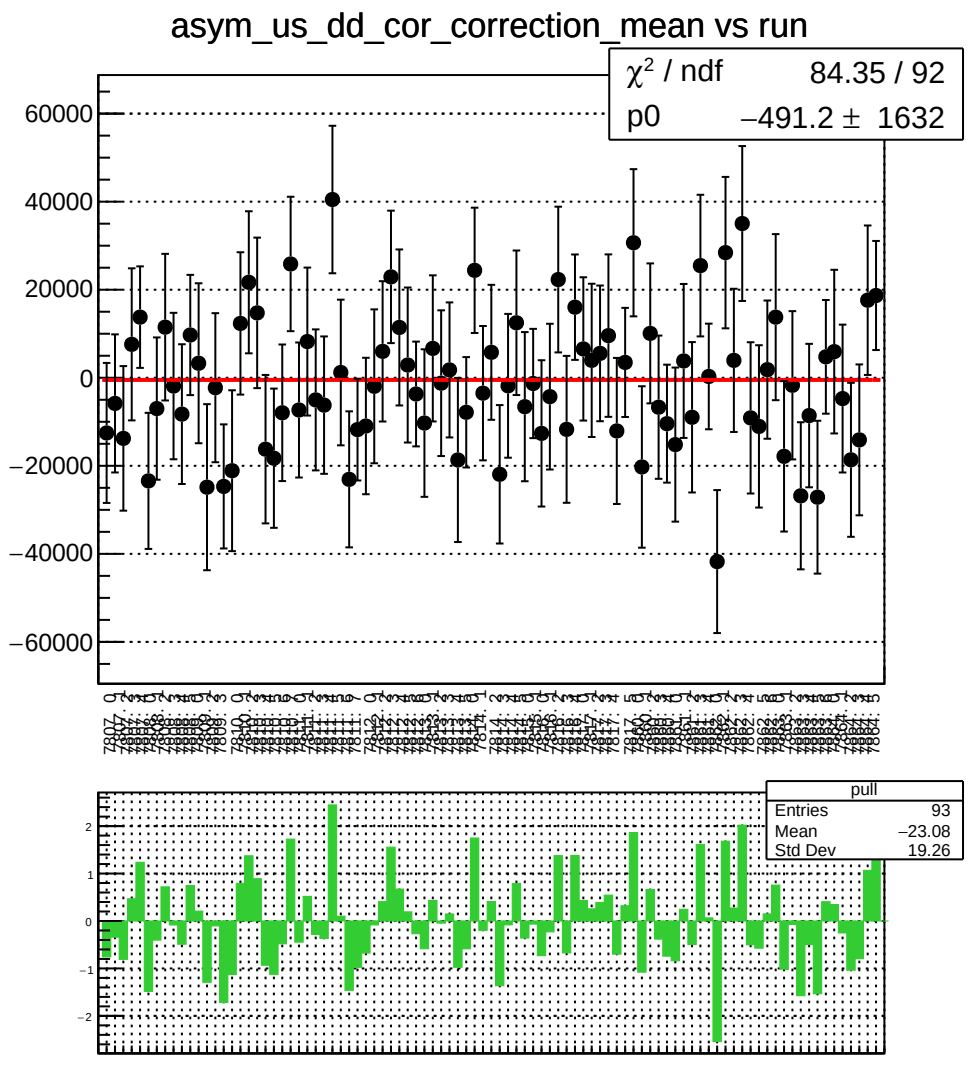

pull1D
Entries 93
Mean −0.01325
Std Dev 0.9522
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

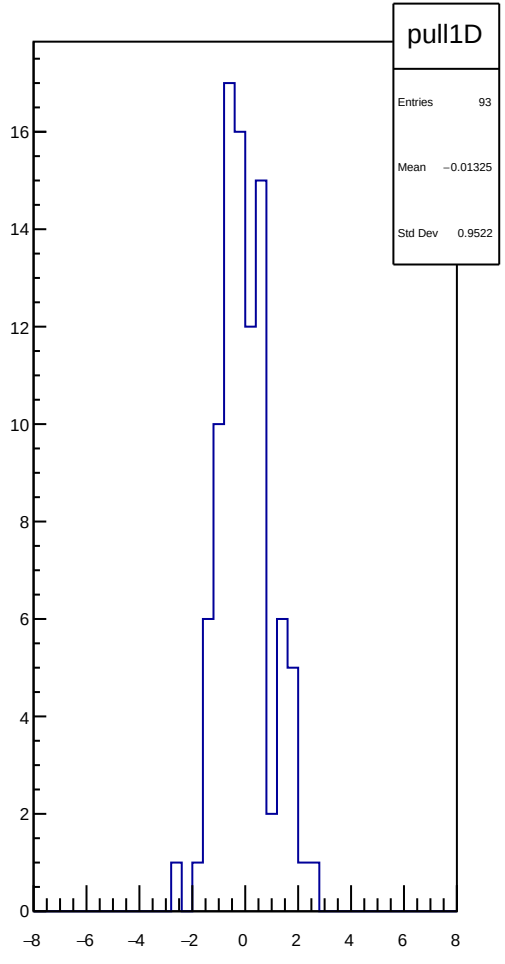

asym_us_dd_reg_correction_rms vs run
χ² / ndf 5434 / 92
p0 1568 ± 1.154
1800
1700
1600
1500
1400
1300

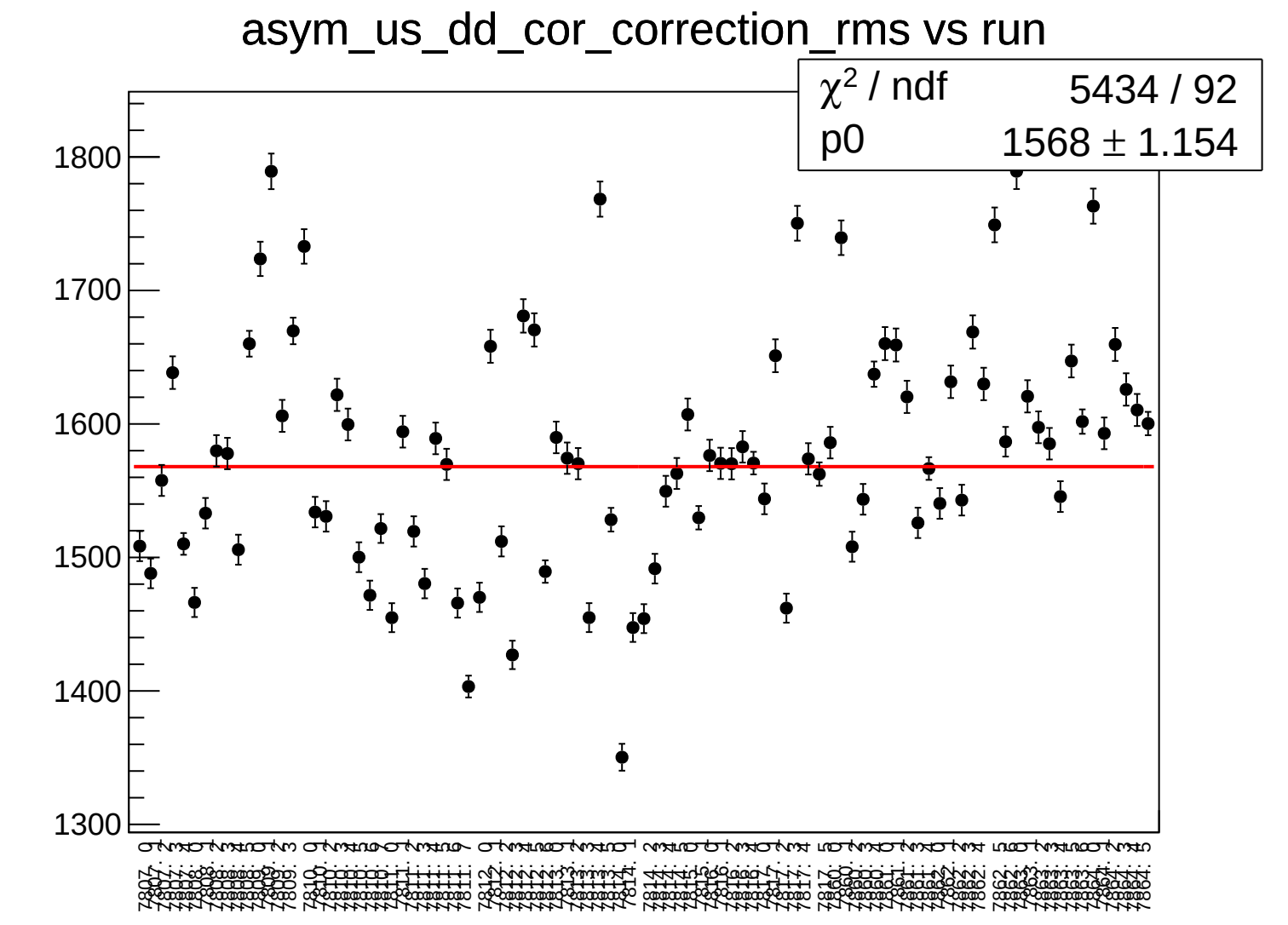

cor_asym_us_dd_mean vs run
χ² / ndf 83.97 / 92
p0 −728.3 ± 794.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean 496.1
Std Dev 0
2
1
0
−1
−2

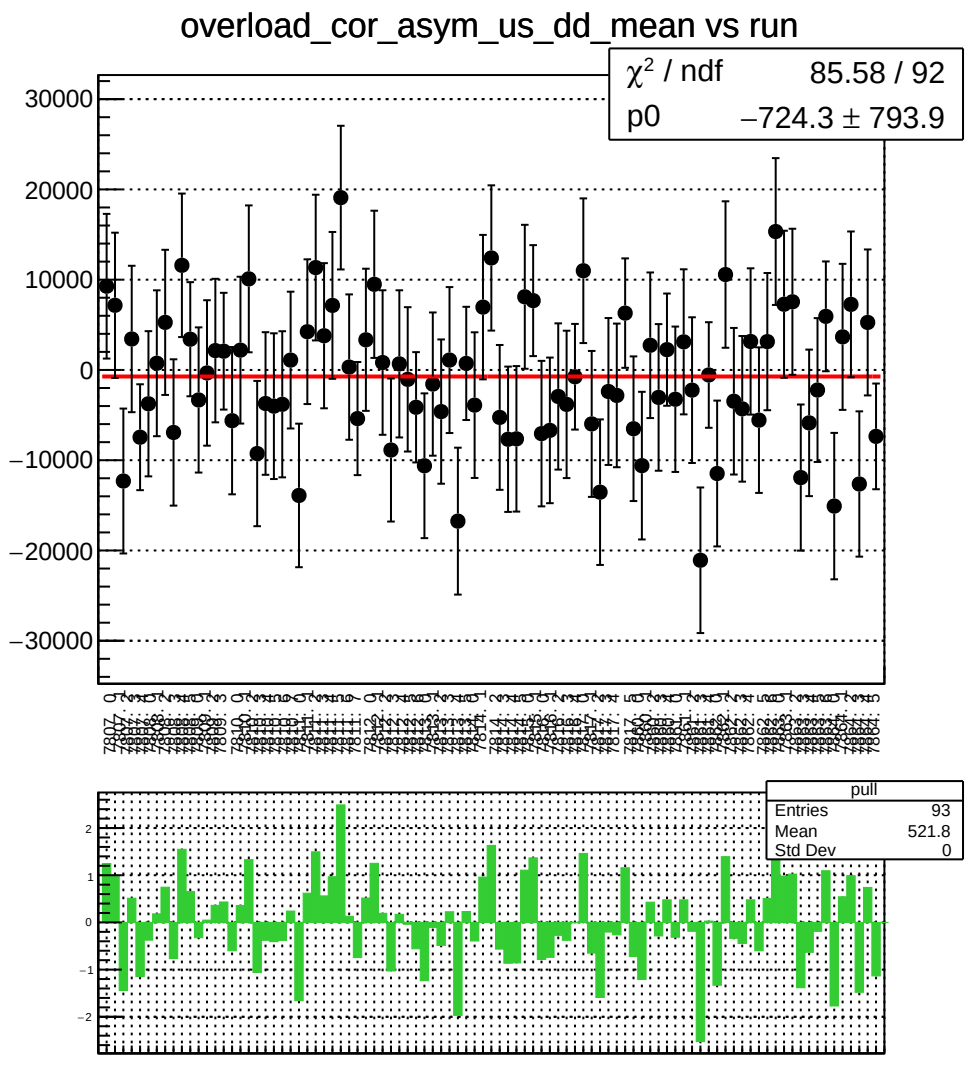

pull1D
Entries 93
Mean −0.005587
Std Dev 0.9502
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

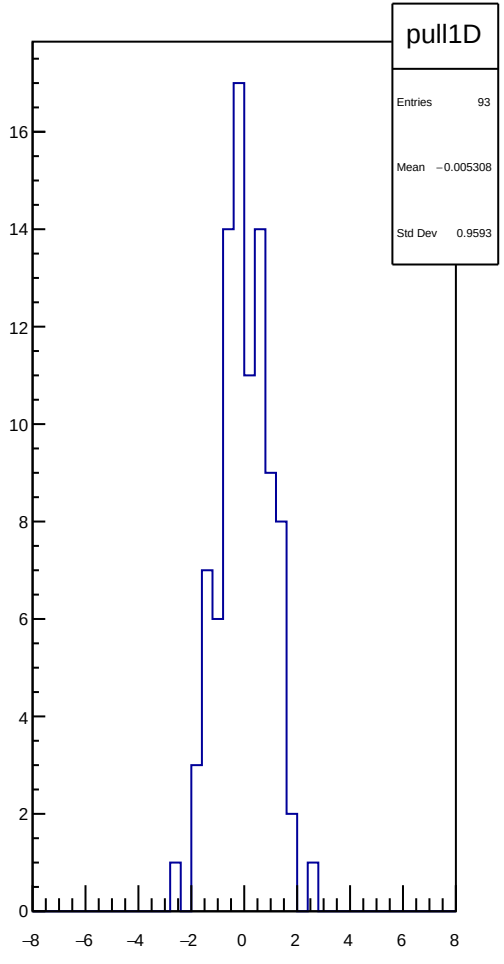

cor_asym_us_dd_rms vs run
χ² / ndf 110 / 92
p0 764.4 ± 0.5618
785
780
775
770
765
760
755
750
745
740

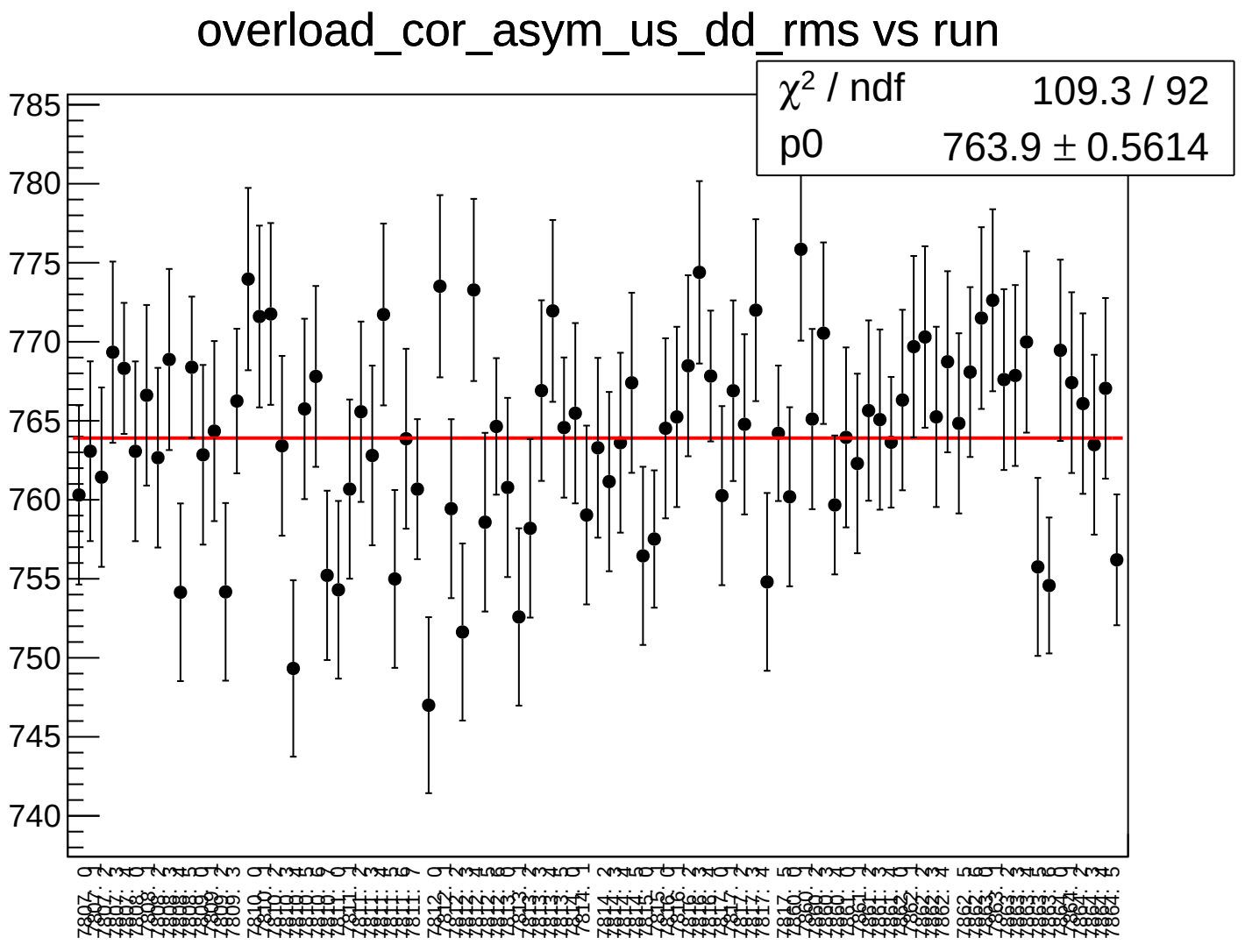

asym_us_dd_cor_correction_mean vs run
χ² / ndf 84.35 / 92
p0 −491.2 ± 1632
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −23.08
Std Dev 19.26
2
1
0
−1
−2

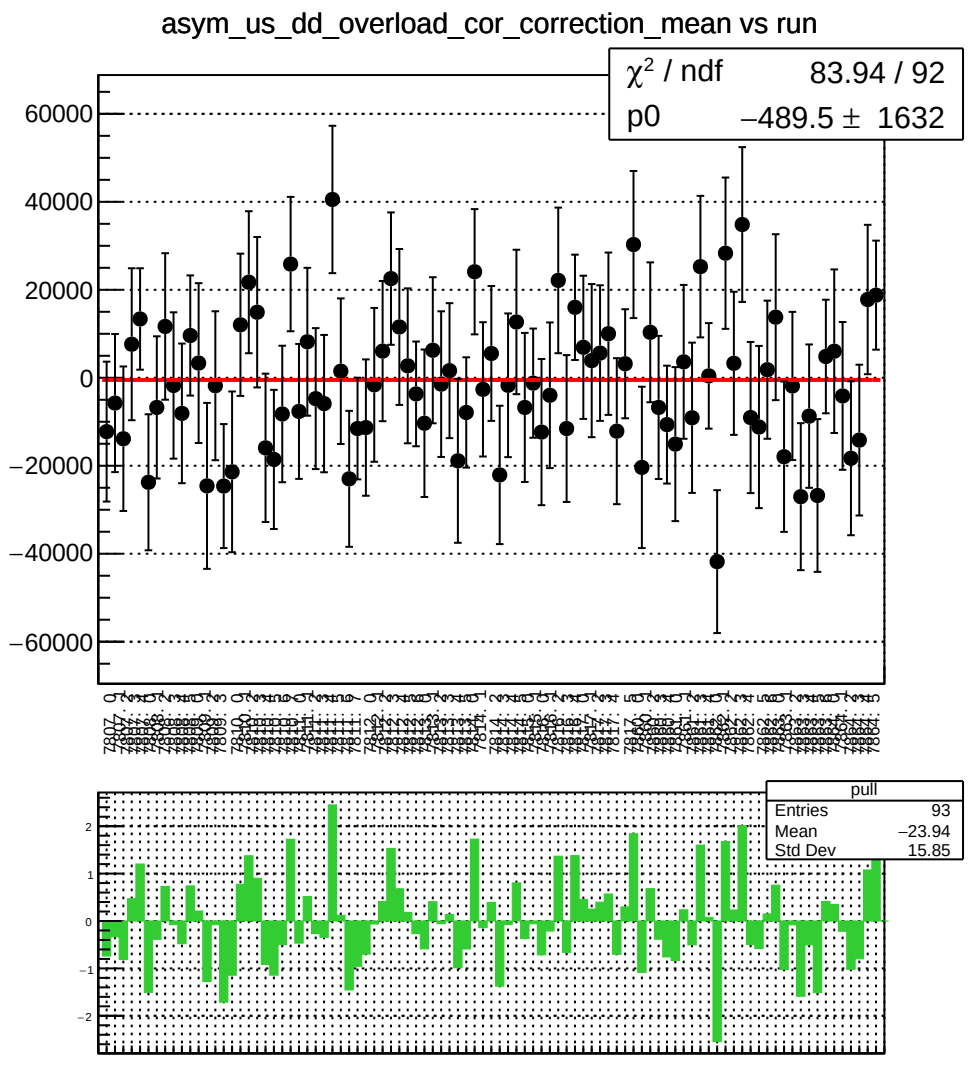

pull1D
Entries 93
Mean −0.01325
Std Dev 0.9522
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

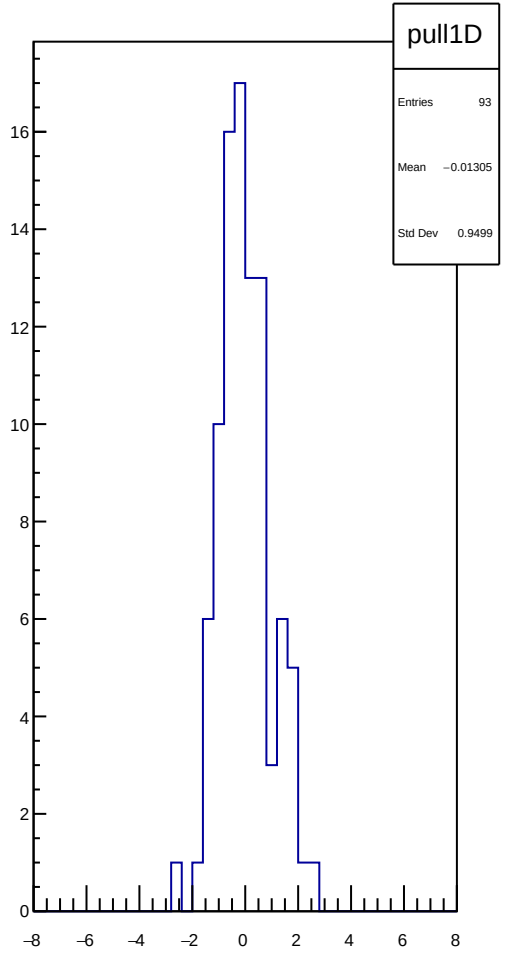

asym_us_dd_cor_correction_rms vs run
χ² / ndf 5434 / 92
p0 1568 ± 1.154
1800
1700
1600
1500
1400
1300

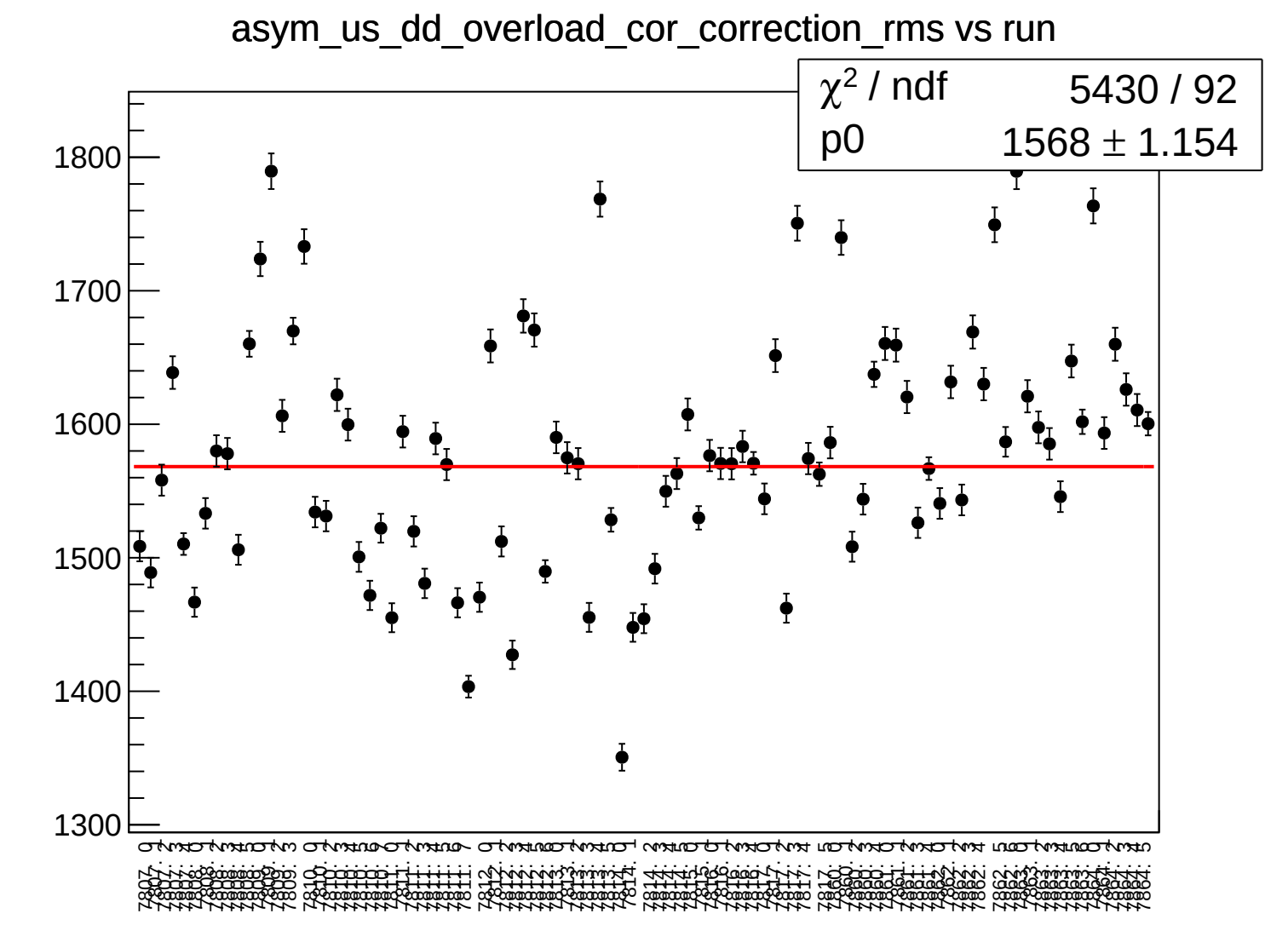

overload_cor_asym_us_dd_mean vs run
χ² / ndf 85.58 / 92
p0 −724.3 ± 793.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean 521.8
Std Dev 0
2
1
0
−1
−2

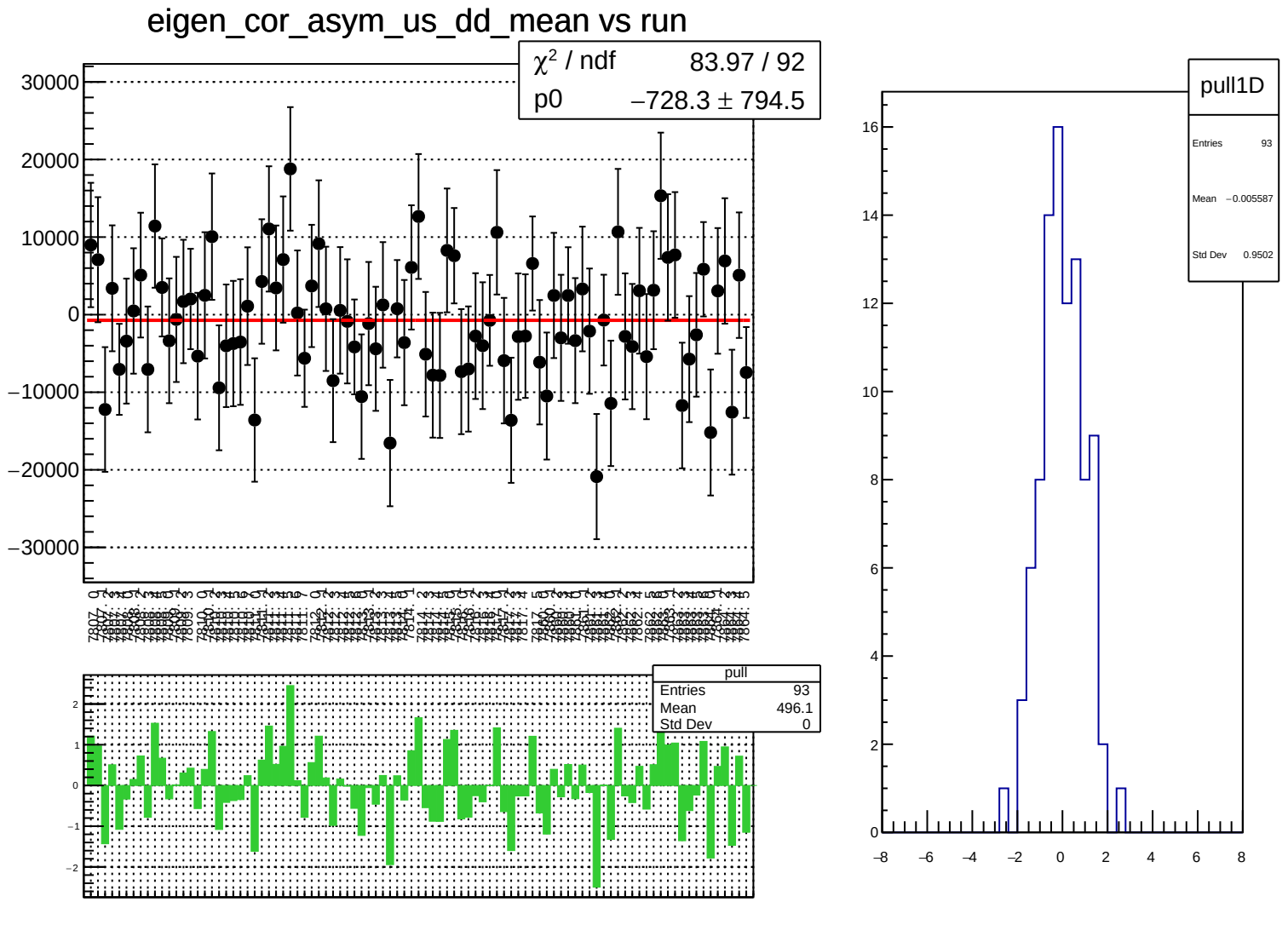

pull1D
Entries 93
Mean −0.005308
Std Dev 0.9593
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

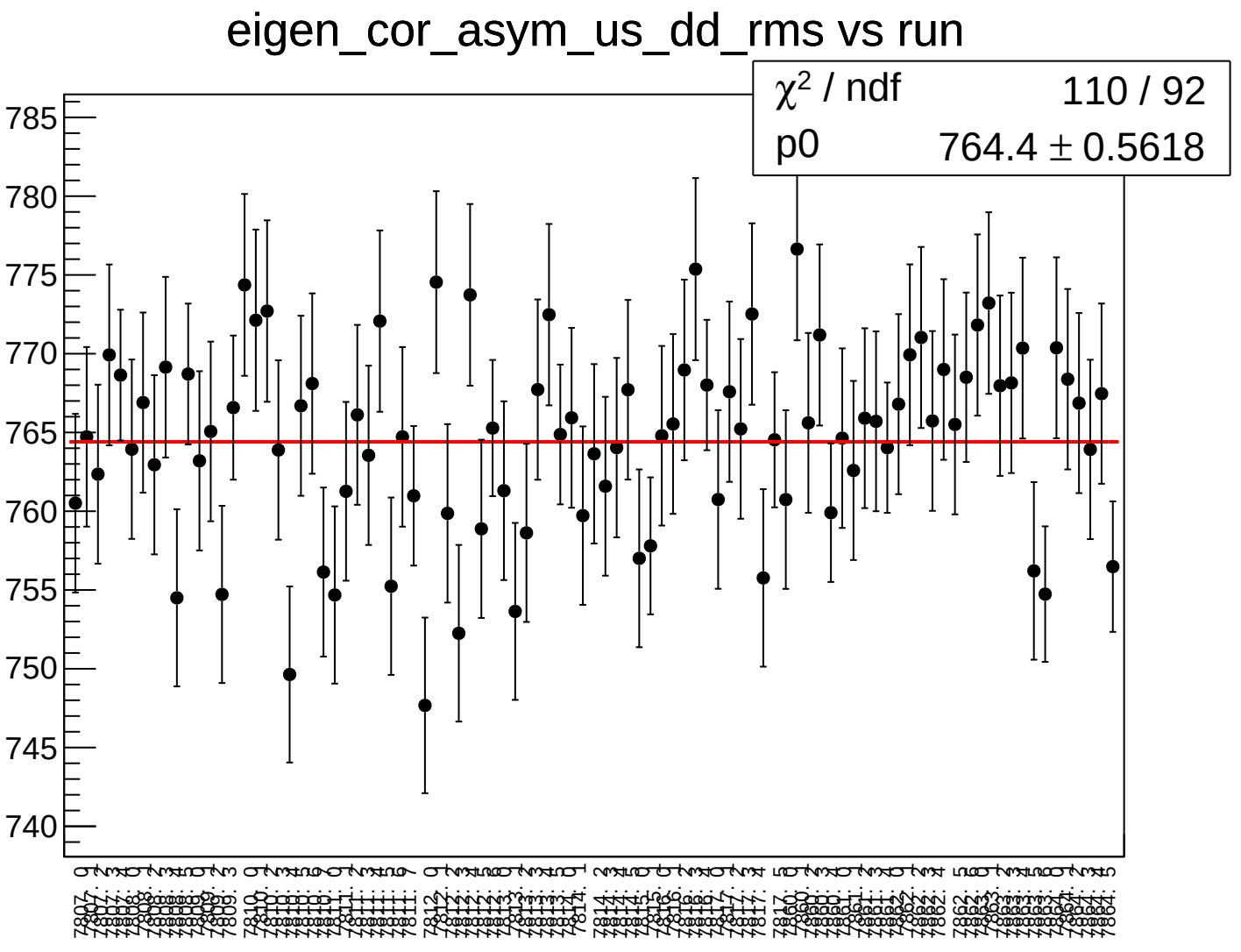

overload_cor_asym_us_dd_rms vs run
χ² / ndf 109.3 / 92
p0 763.9 ± 0.5614
785
780
775
770
765
760
755
750
745
740

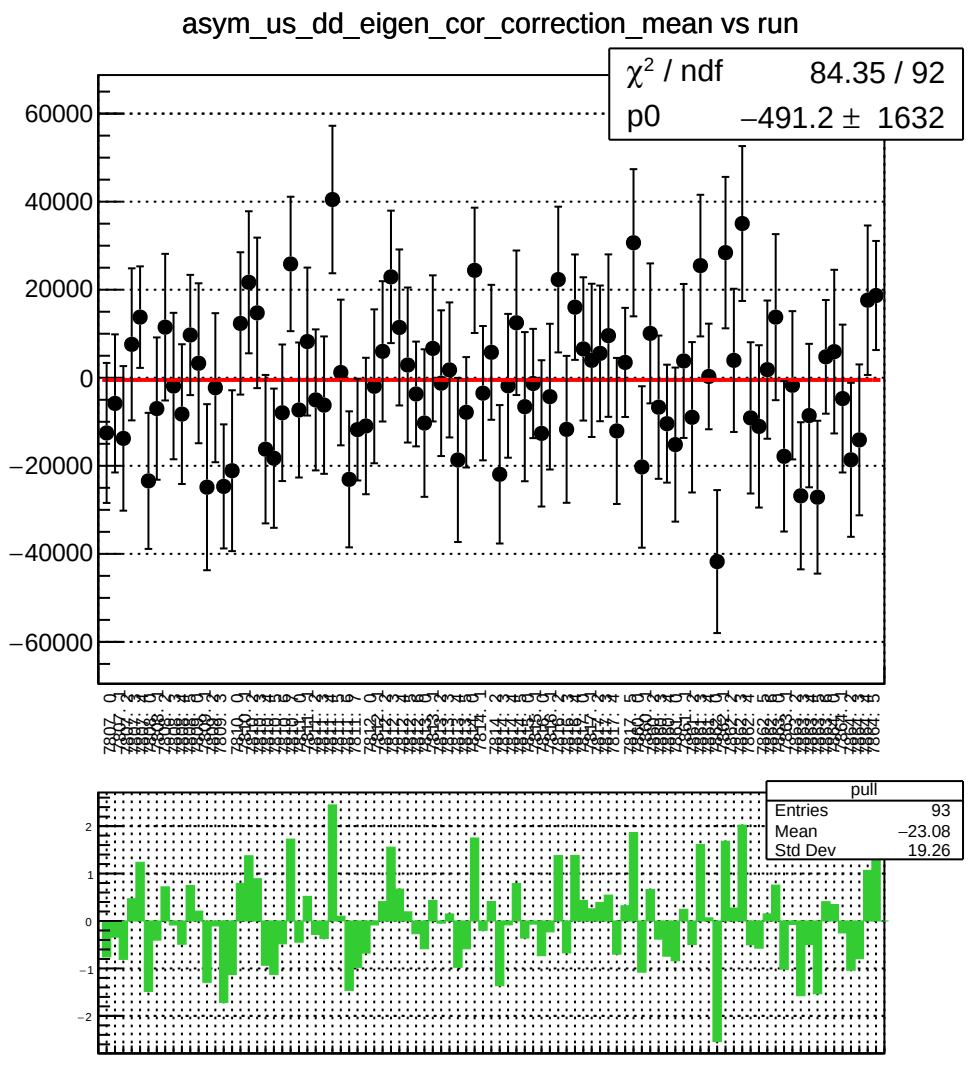

asym_us_dd_overload_cor_correction_mean vs run
χ² / ndf 83.94 / 92
p0 −489.5 ± 1632
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −23.94
Std Dev 15.85
2
1
0
−1
−2

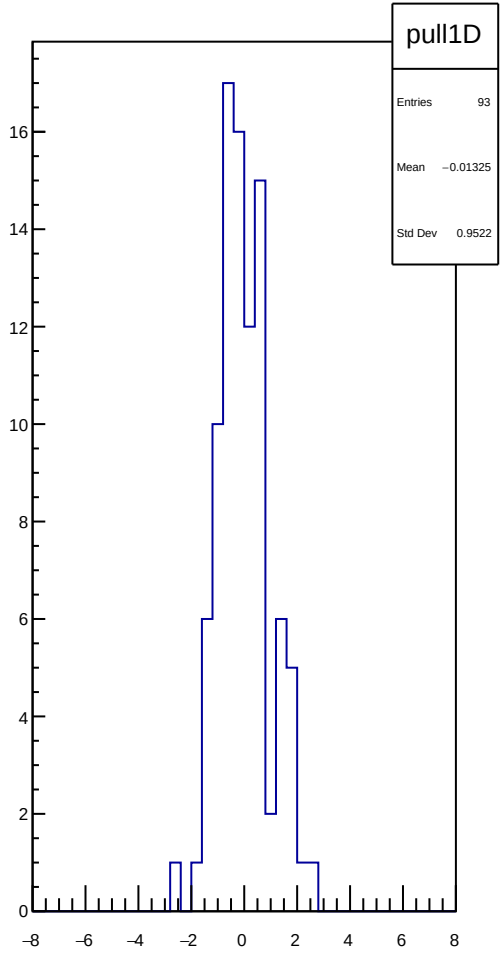

pull1D
Entries 93
Mean −0.01305
Std Dev 0.9499
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

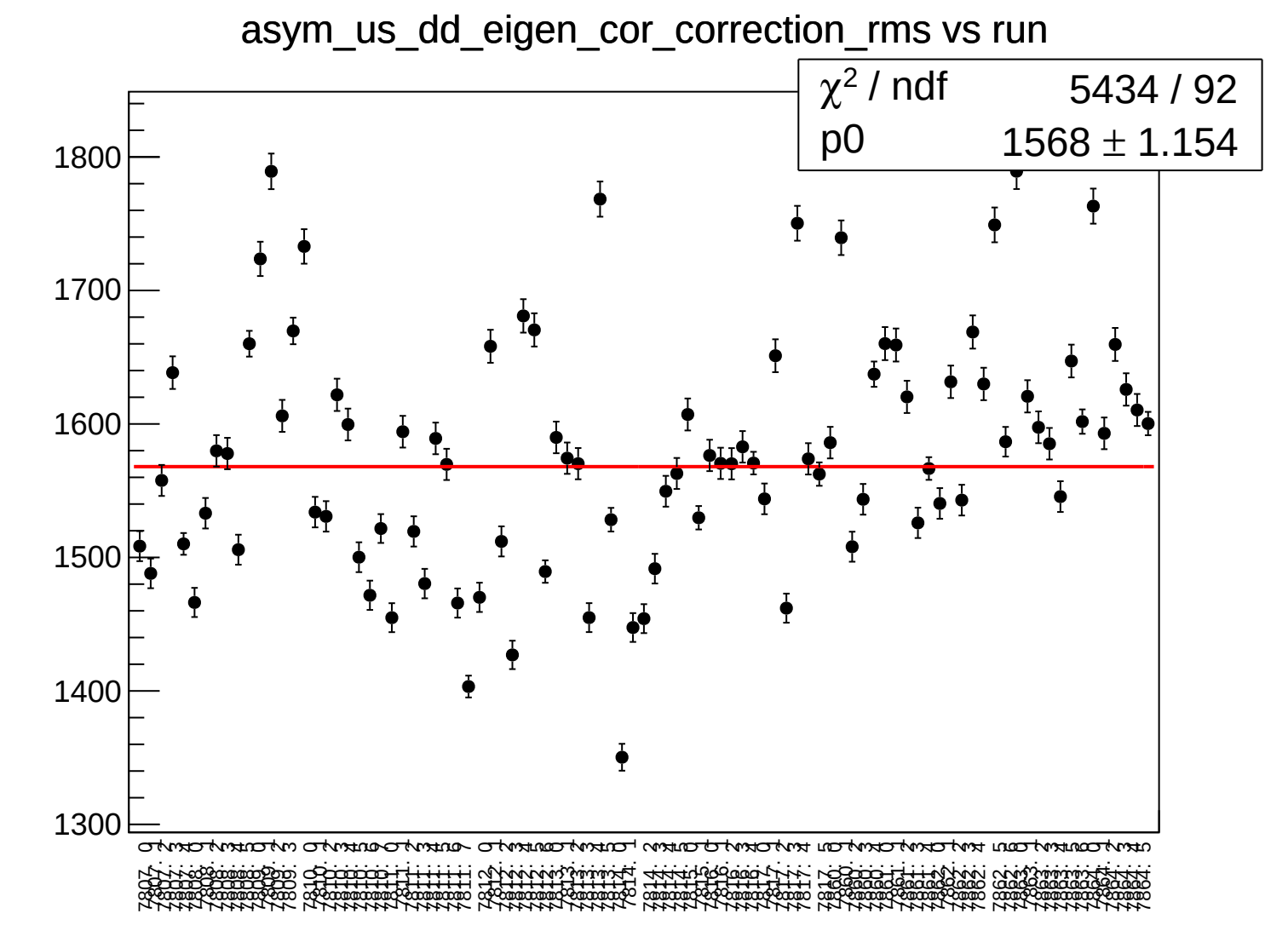

asym_us_dd_overload_cor_correction_rms vs run
χ² / ndf 5430 / 92
p0 1568 ± 1.154
1800
1700
1600
1500
1400
1300

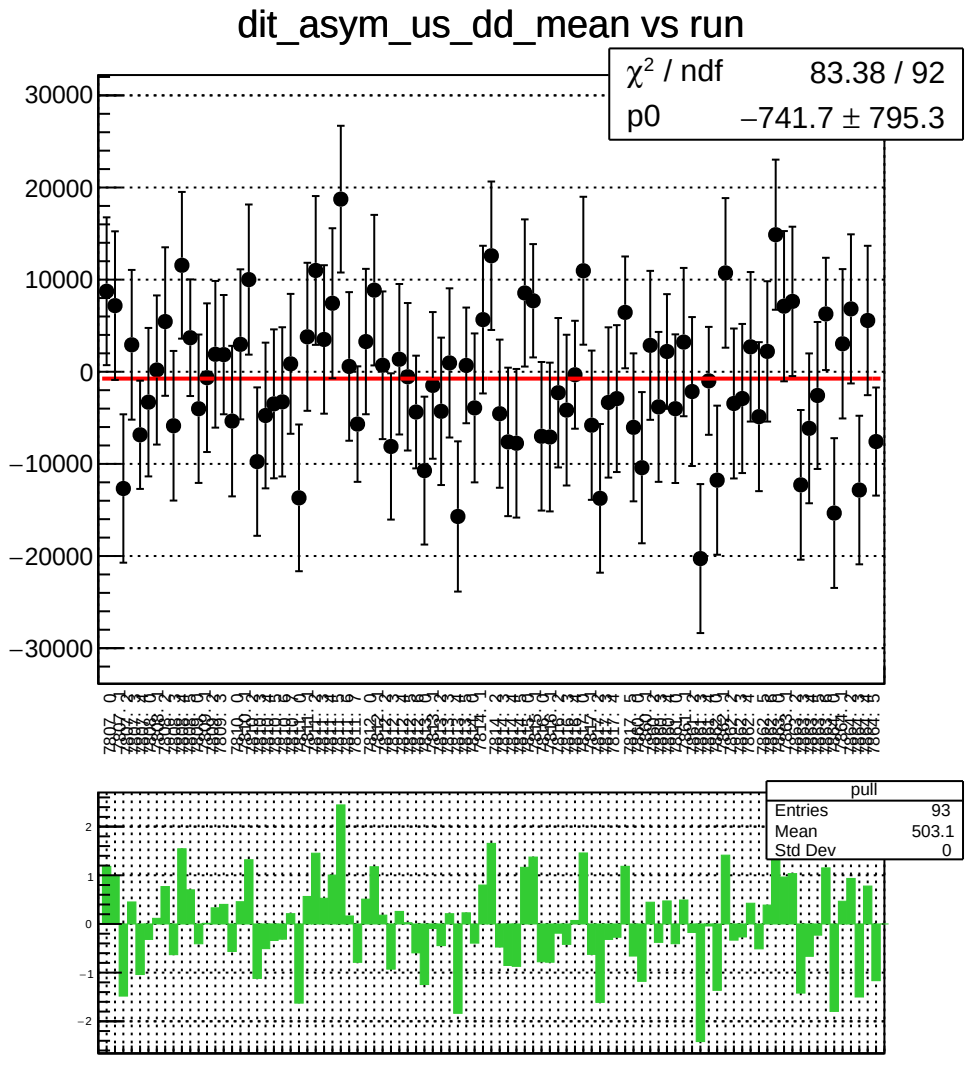

eigen_cor_asym_us_dd_mean vs run
χ² / ndf 83.97 / 92
p0 −728.3 ± 794.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean 496.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.005587
Std Dev 0.9502
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

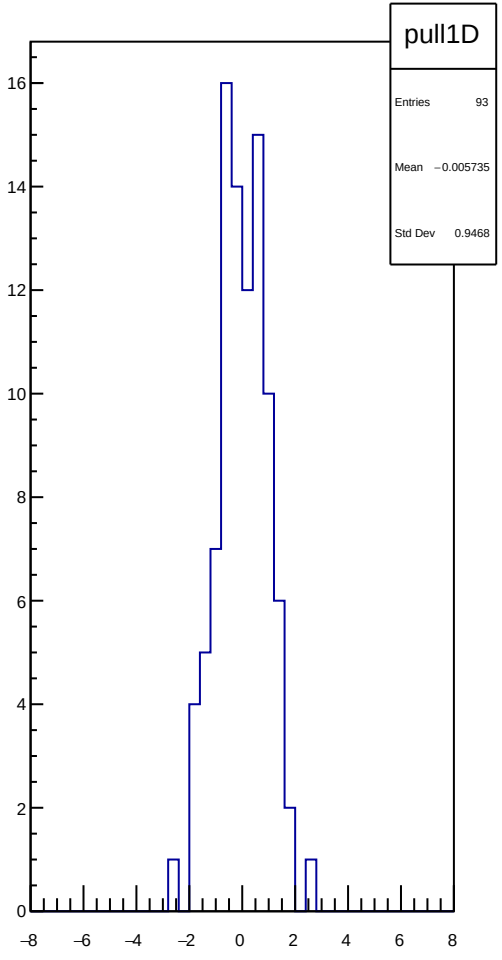

eigen_cor_asym_us_dd_rms vs run
χ² / ndf 110 / 92
p0 764.4 ± 0.5618
785
780
775
770
765
760
755
750
745
740

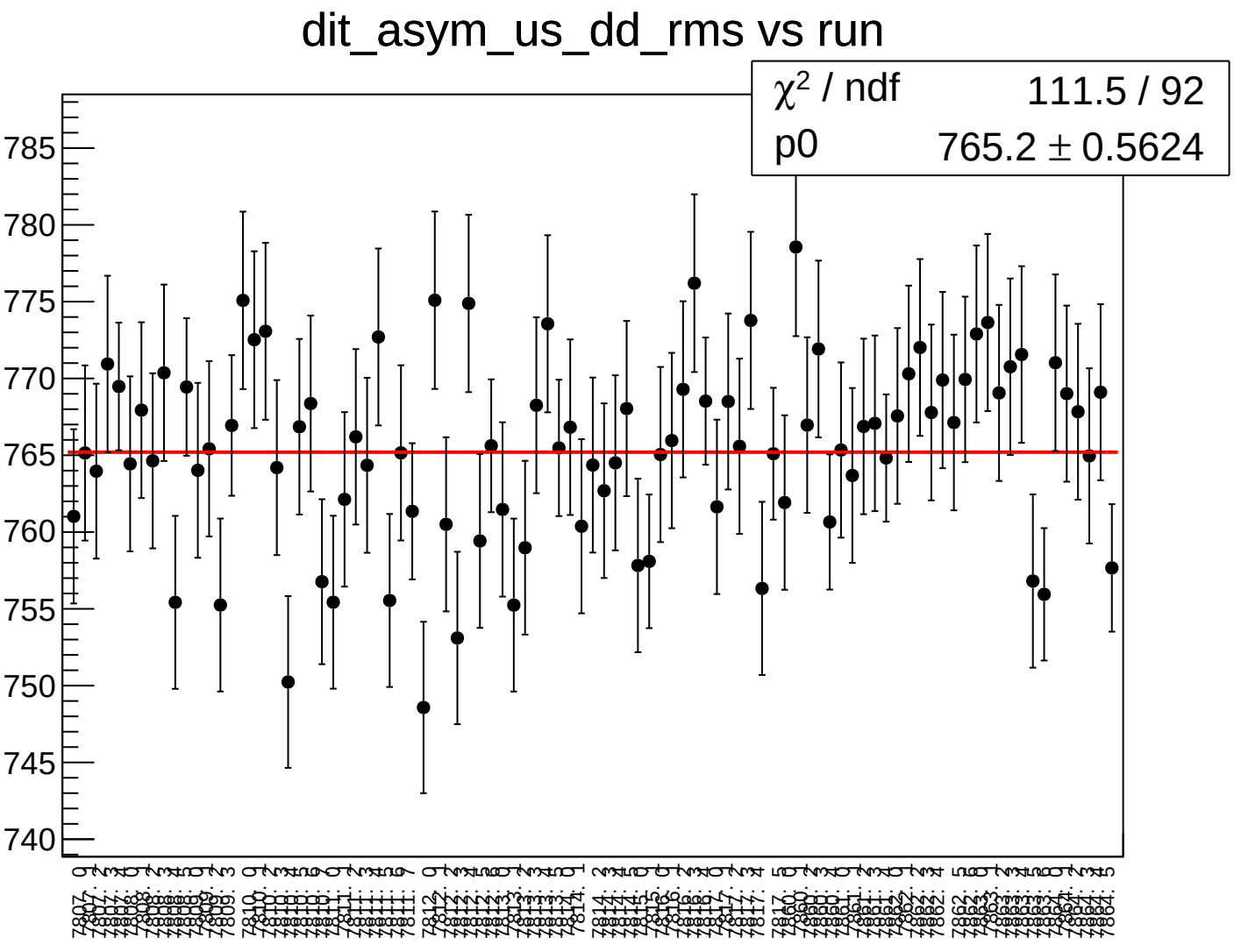

asym_us_dd_eigen_cor_correction_mean vs run
χ² / ndf 84.35 / 92
p0 −491.2 ± 1632
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −23.08
Std Dev 19.26
2
1
0
−1
−2

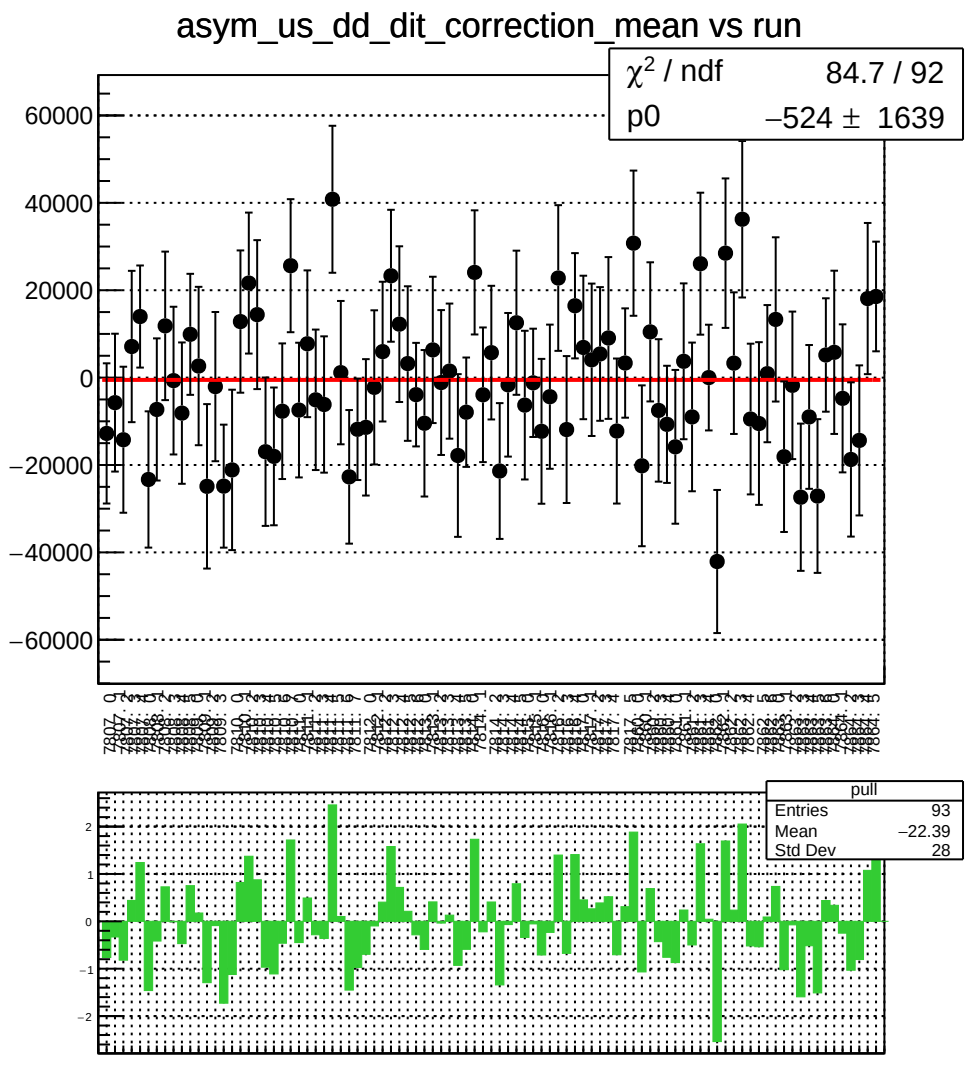

pull1D
Entries 93
Mean −0.01325
Std Dev 0.9522
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

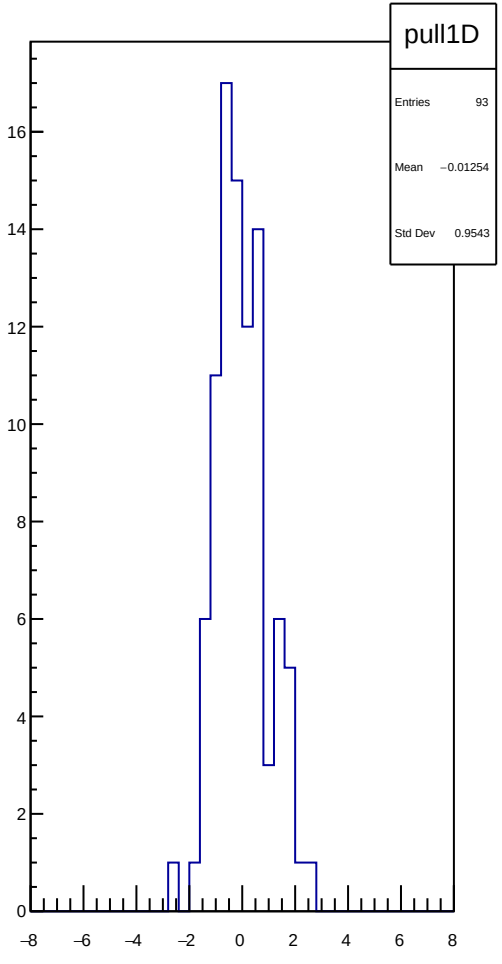

asym_us_dd_eigen_cor_correction_rms vs run
χ² / ndf 5434 / 92
p0 1568 ± 1.154
1800
1700
1600
1500
1400
1300

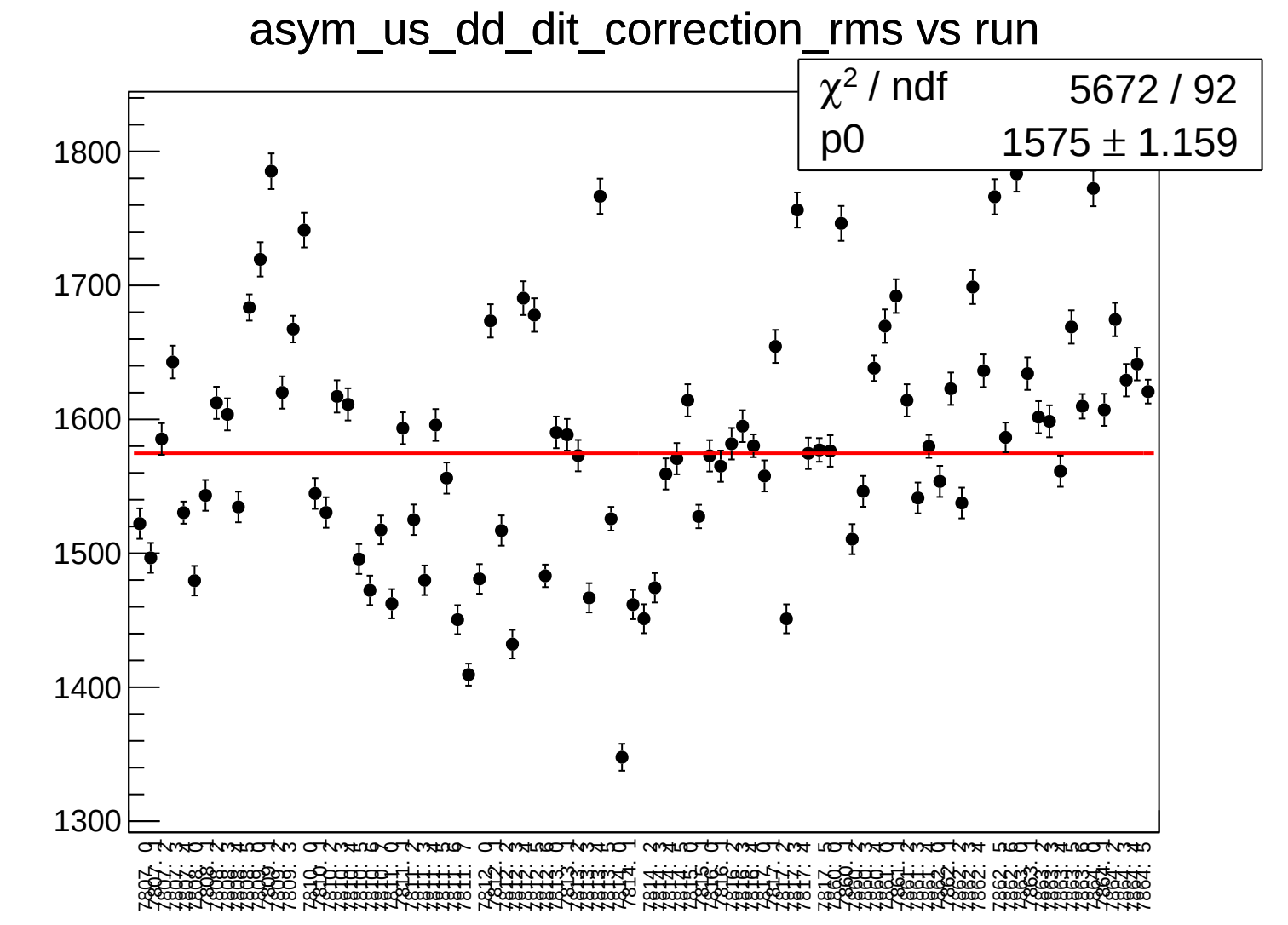

dit_asym_us_dd_mean vs run
χ² / ndf 83.38 / 92
p0 −741.7 ± 795.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean 503.1
Std Dev 0
2
1
0
−1
−2

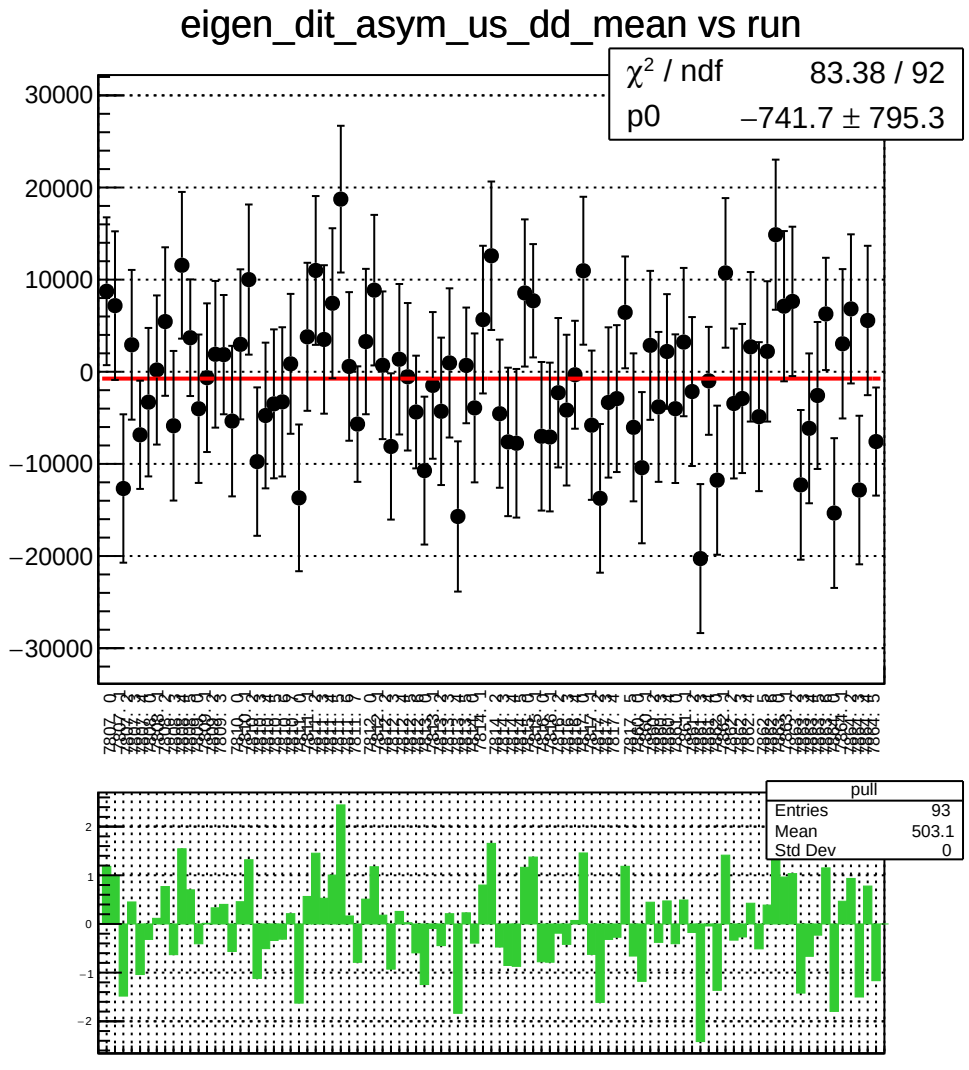

pull1D
Entries 93
Mean −0.005735
Std Dev 0.9468
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

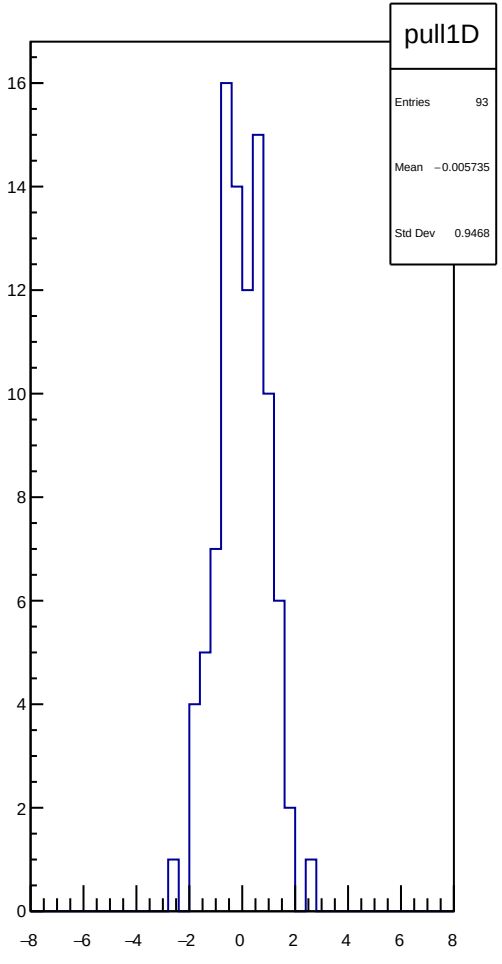

dit_asym_us_dd_rms vs run
χ² / ndf 111.5 / 92
p0 765.2 ± 0.5624
785
780
775
770
765
760
755
750
745
740

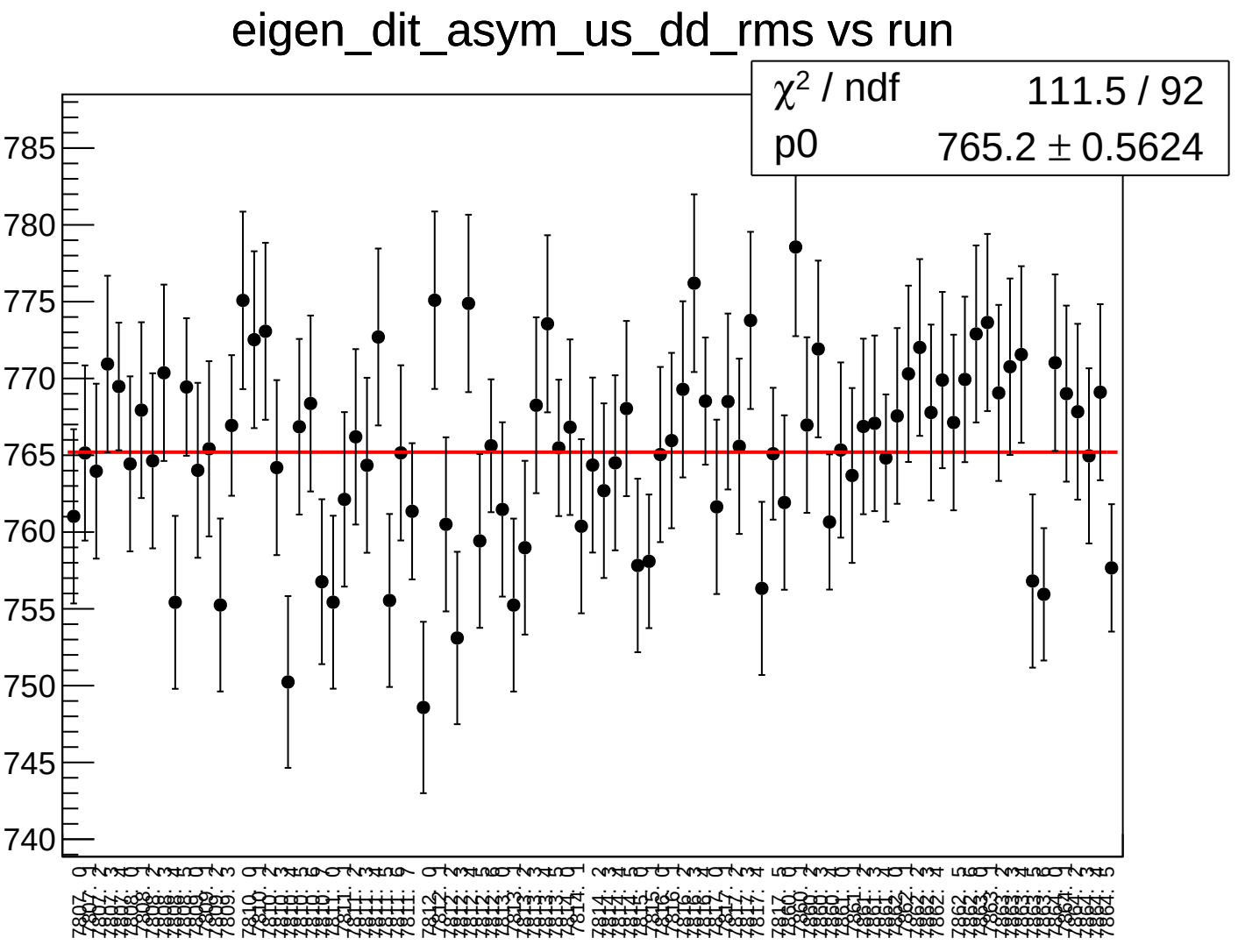

asym_us_dd_dit_correction_mean vs run
χ² / ndf 84.7 / 92
p0 −524 ± 1639
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −22.39
Std Dev 28
2
1
0
−1
−2

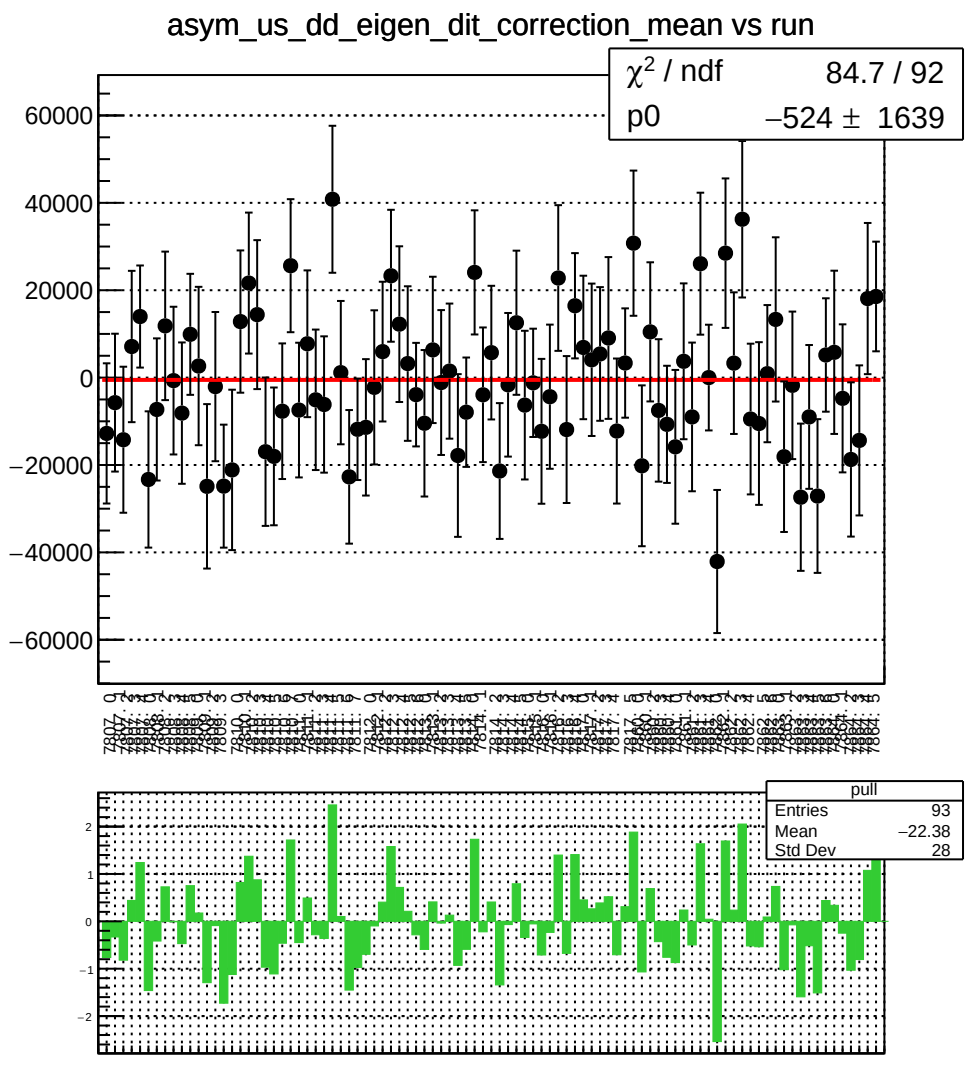

pull1D
Entries 93
Mean −0.01254
Std Dev 0.9543
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

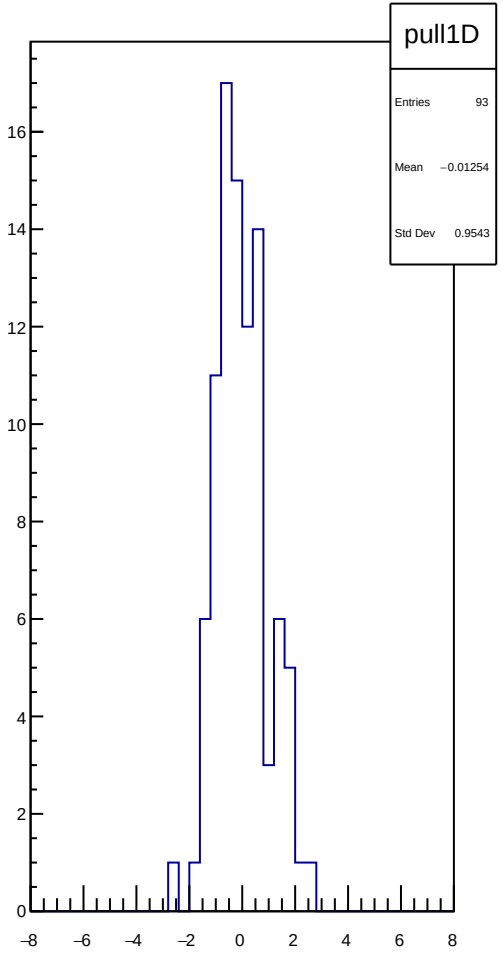

asym_us_dd_dit_correction_rms vs run
χ² / ndf 5672 / 92
p0 1575 ± 1.159
1800
1700
1600
1500
1400
1300

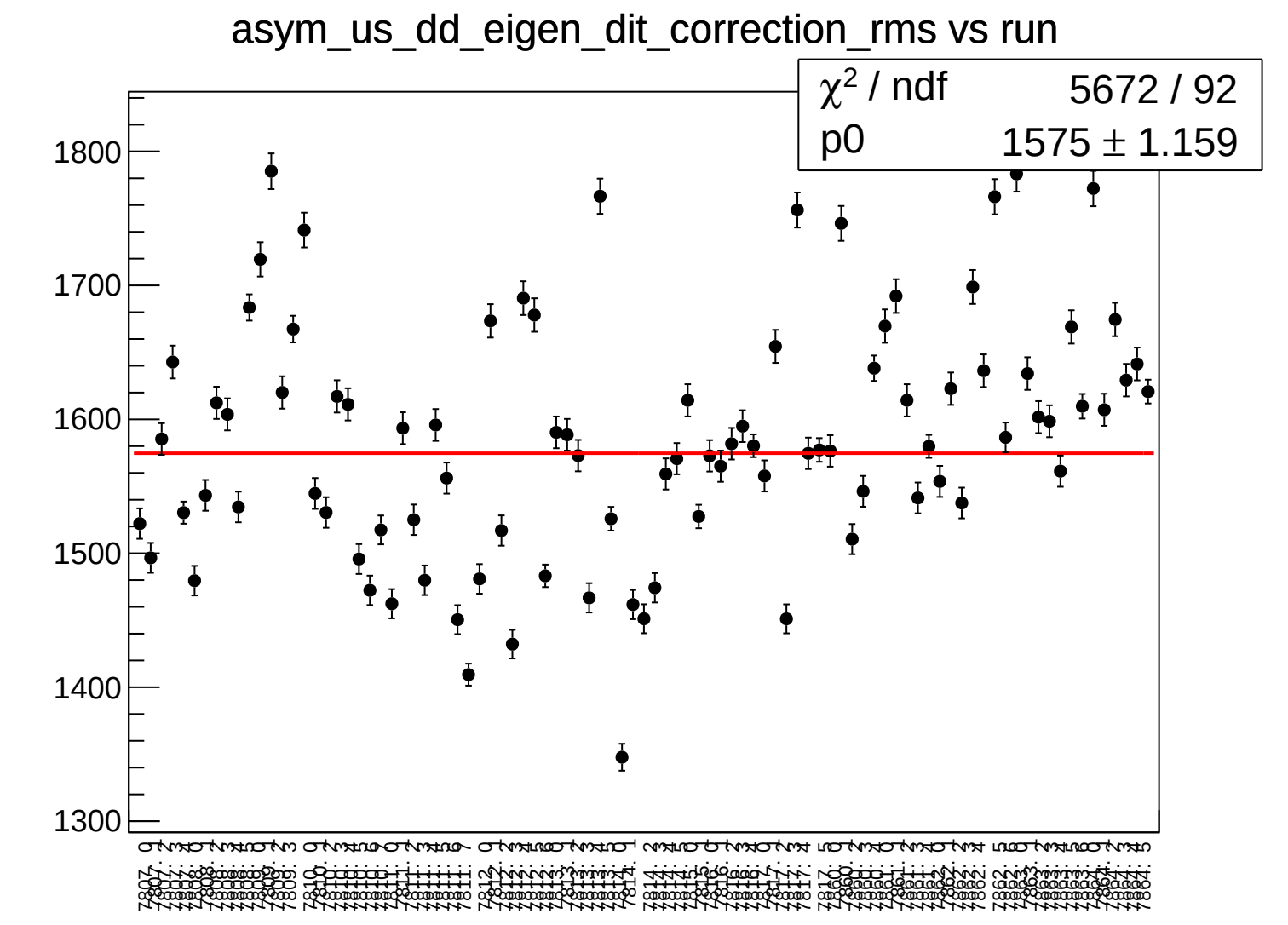

eigen_dit_asym_us_dd_mean vs run
χ² / ndf 83.38 / 92
p0 −741.7 ± 795.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean 503.1
Std Dev 0
2
1
0
−1
−2

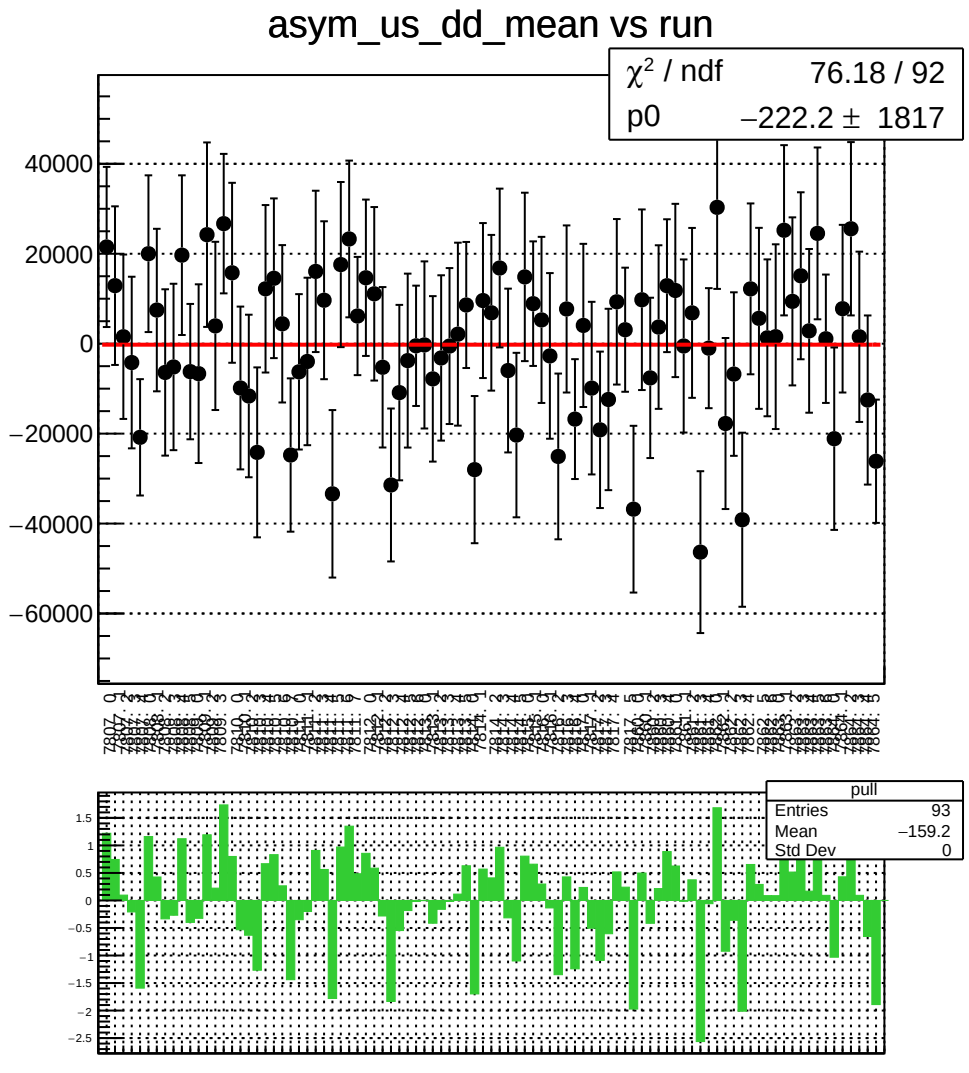

pull1D
Entries 93
Mean −0.005735
Std Dev 0.9468
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

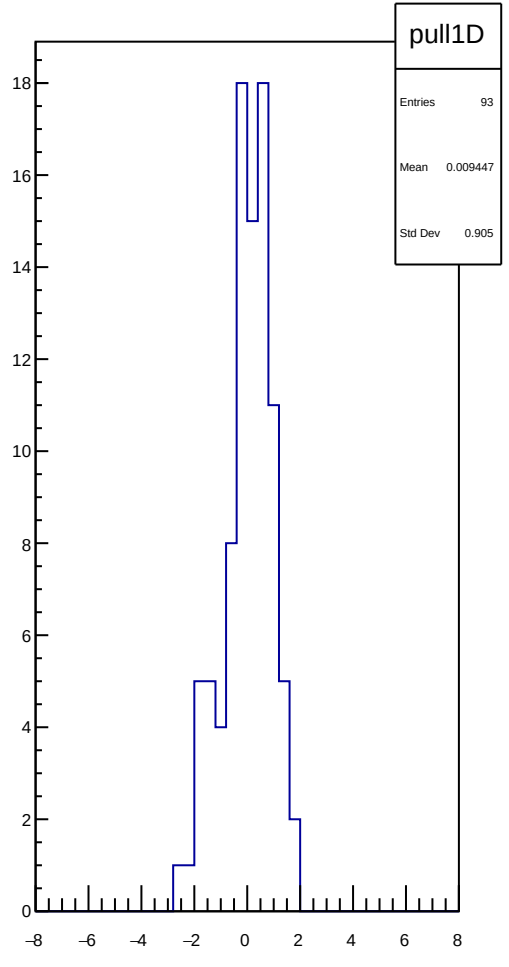

eigen_dit_asym_us_dd_rms vs run
χ² / ndf 111.5 / 92
p0 765.2 ± 0.5624
785
780
775
770
765
760
755
750
745
740

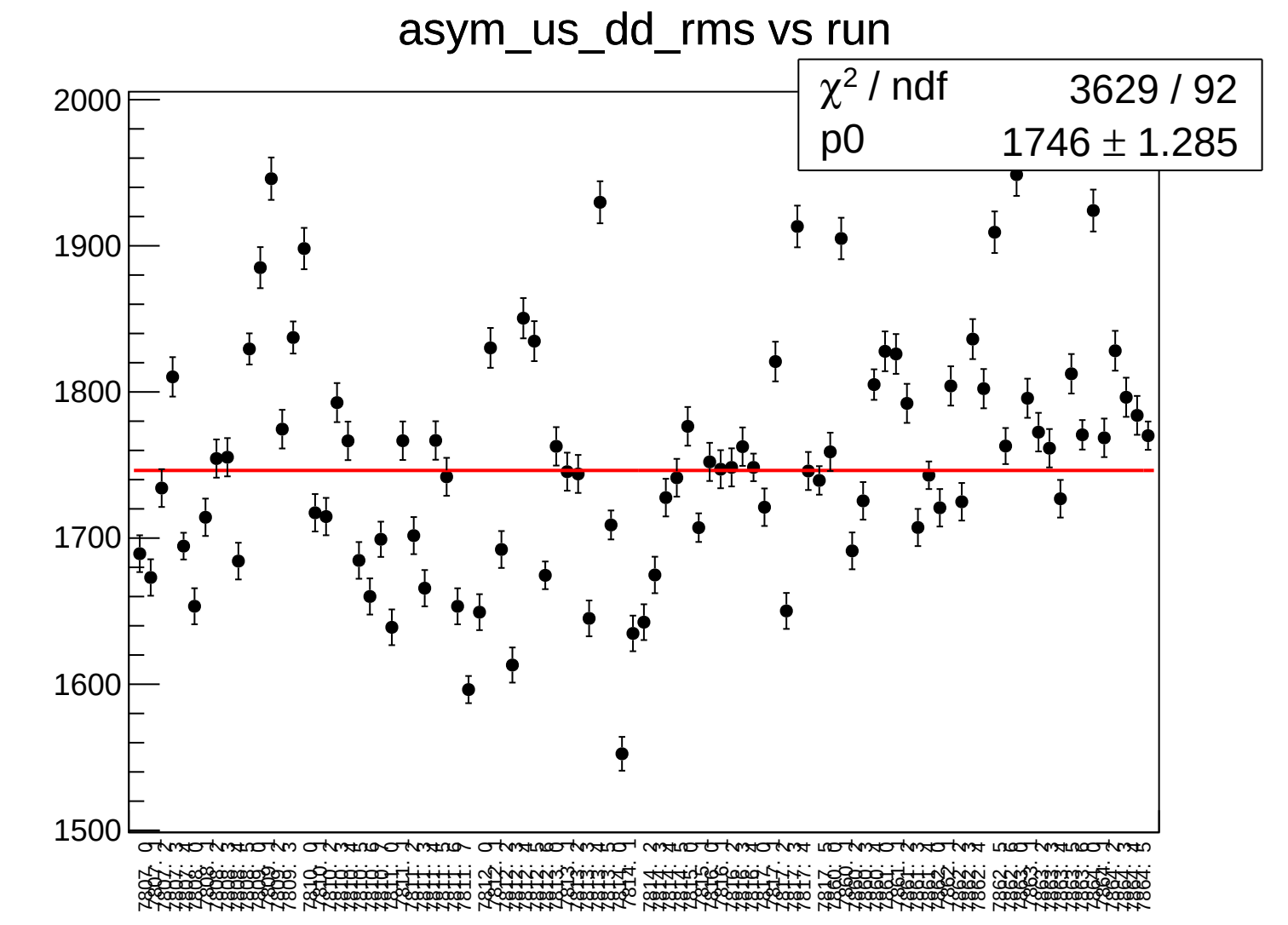

asym_us_dd_eigen_dit_correction_mean vs run
χ² / ndf 84.7 / 92
p0 −524 ± 1639
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −22.38
Std Dev 28
2
1
0
−1
−2

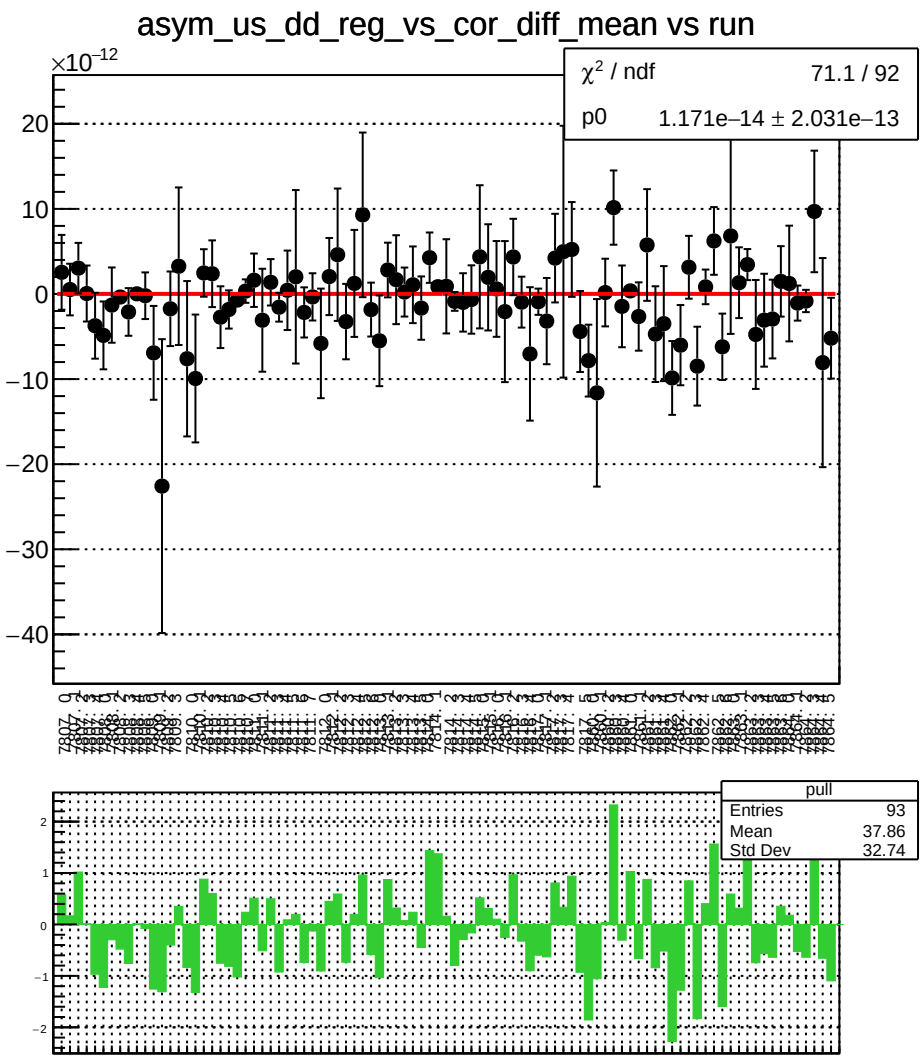

pull1D
Entries 93
Mean −0.01254
Std Dev 0.9543
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

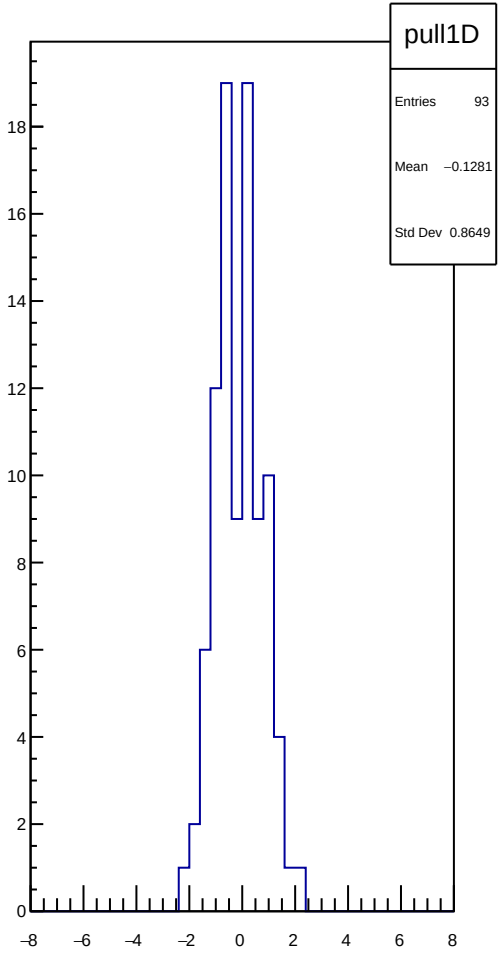

asym_us_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 5672 / 92
p0 1575 ± 1.159
1800
1700
1600
1500
1400
1300

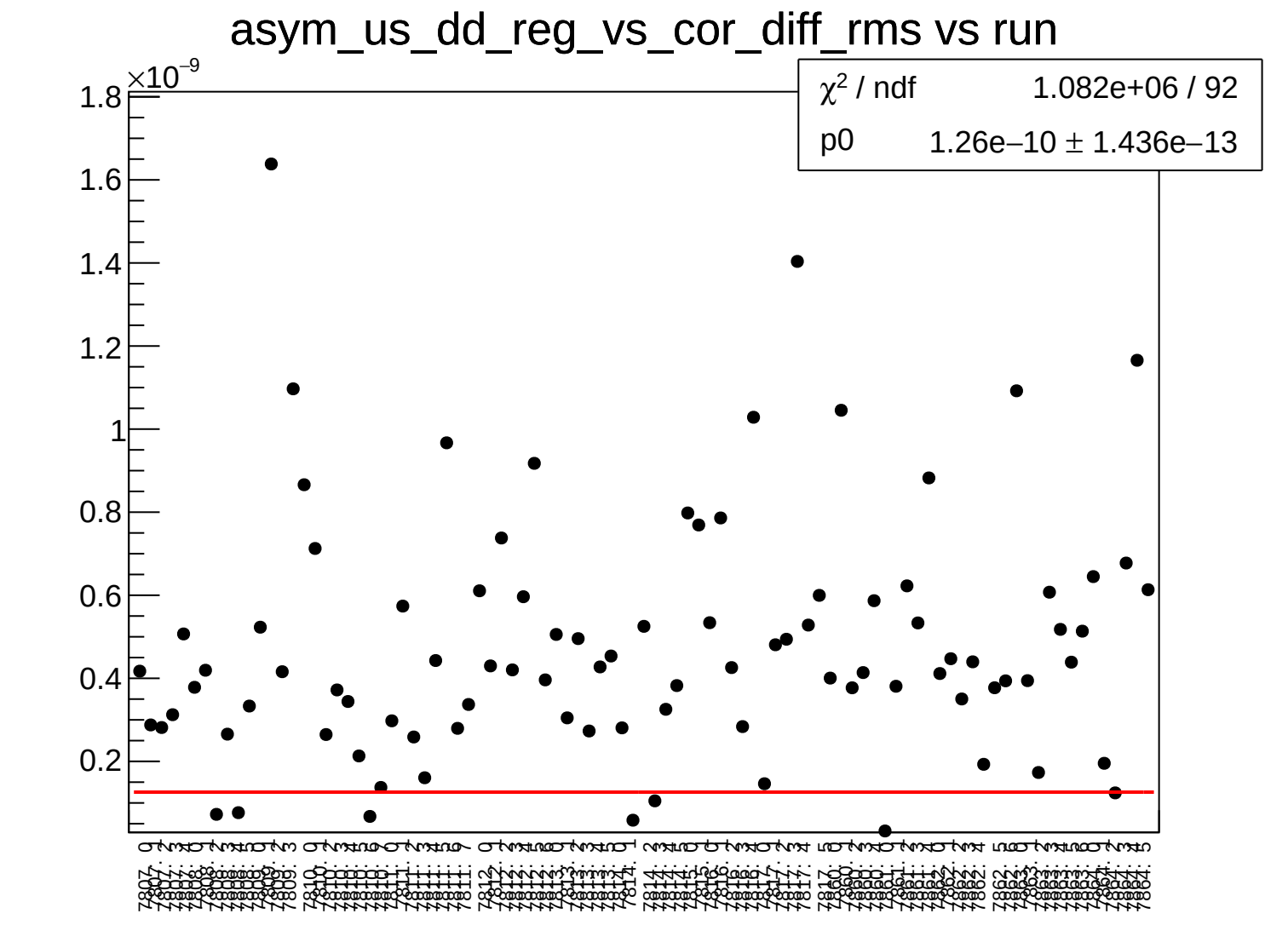

asym_us_dd_mean vs run
χ² / ndf 76.18 / 92
p0 −222.2 ± 1817
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −159.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

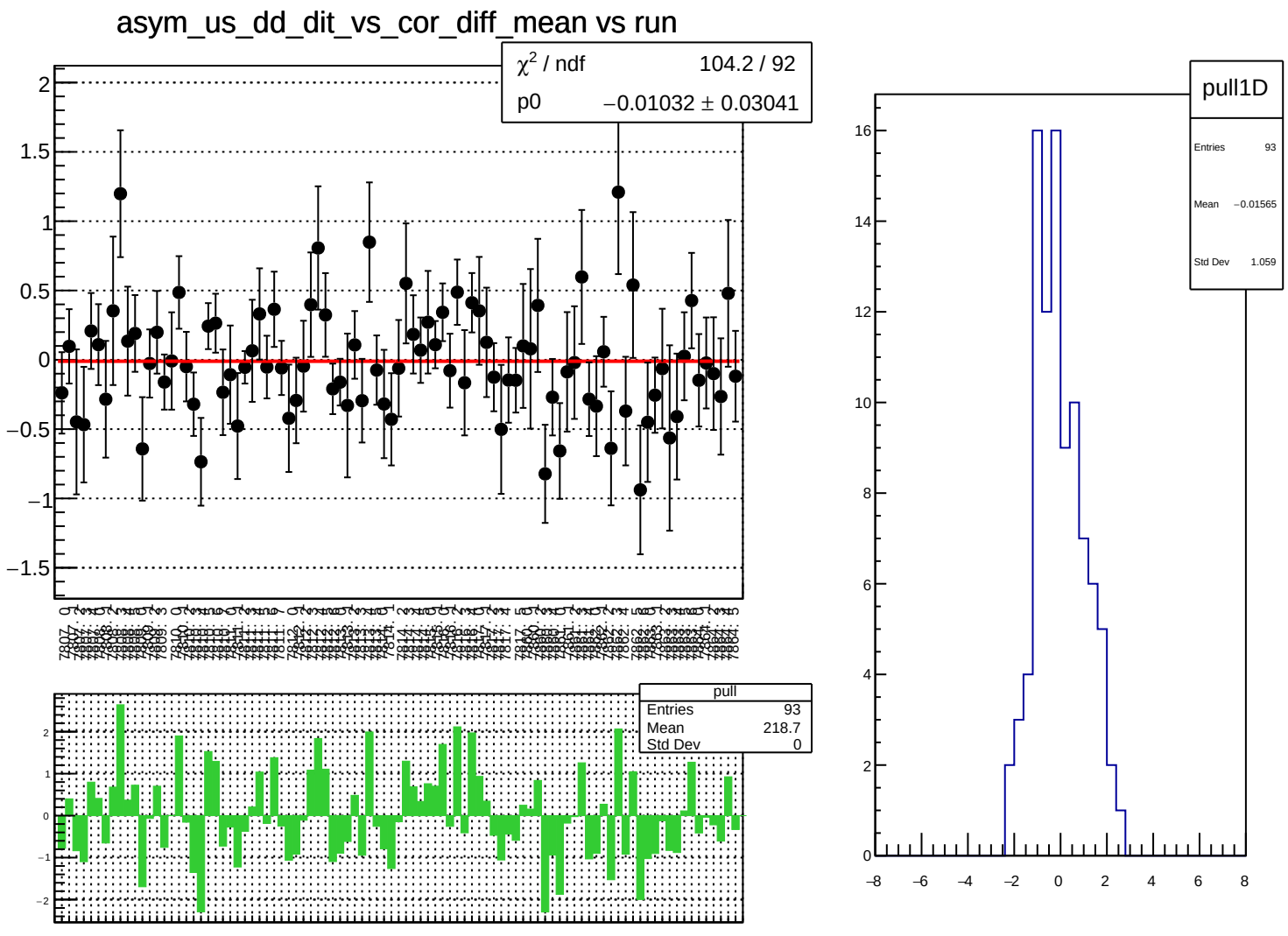

pull1D
Entries 93
Mean 0.009447
Std Dev 0.905
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

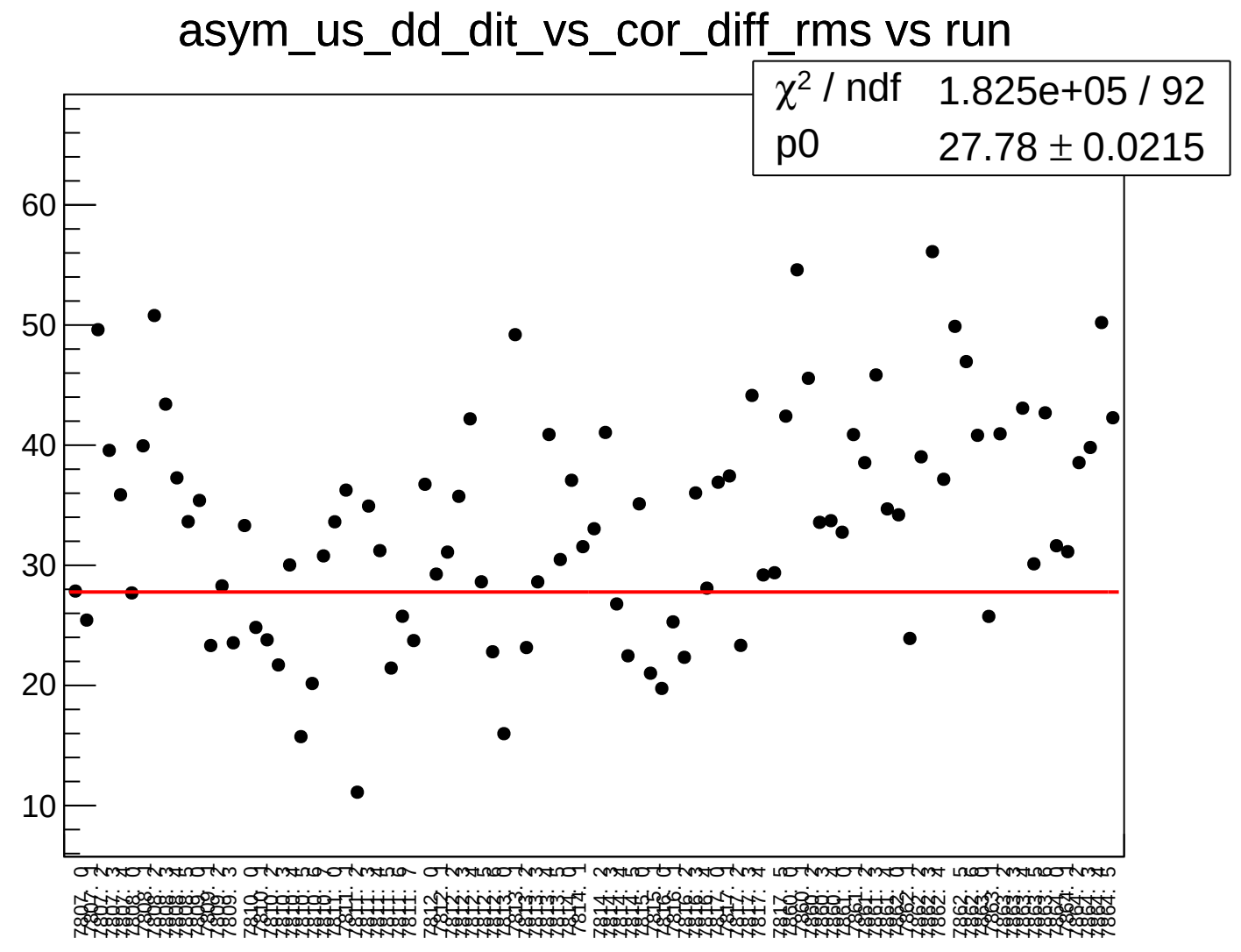

asym_us_dd_rms vs run
χ² / ndf 3629 / 92
p0 1746 ± 1.285
2000
1900
1800
1700
1600
1500

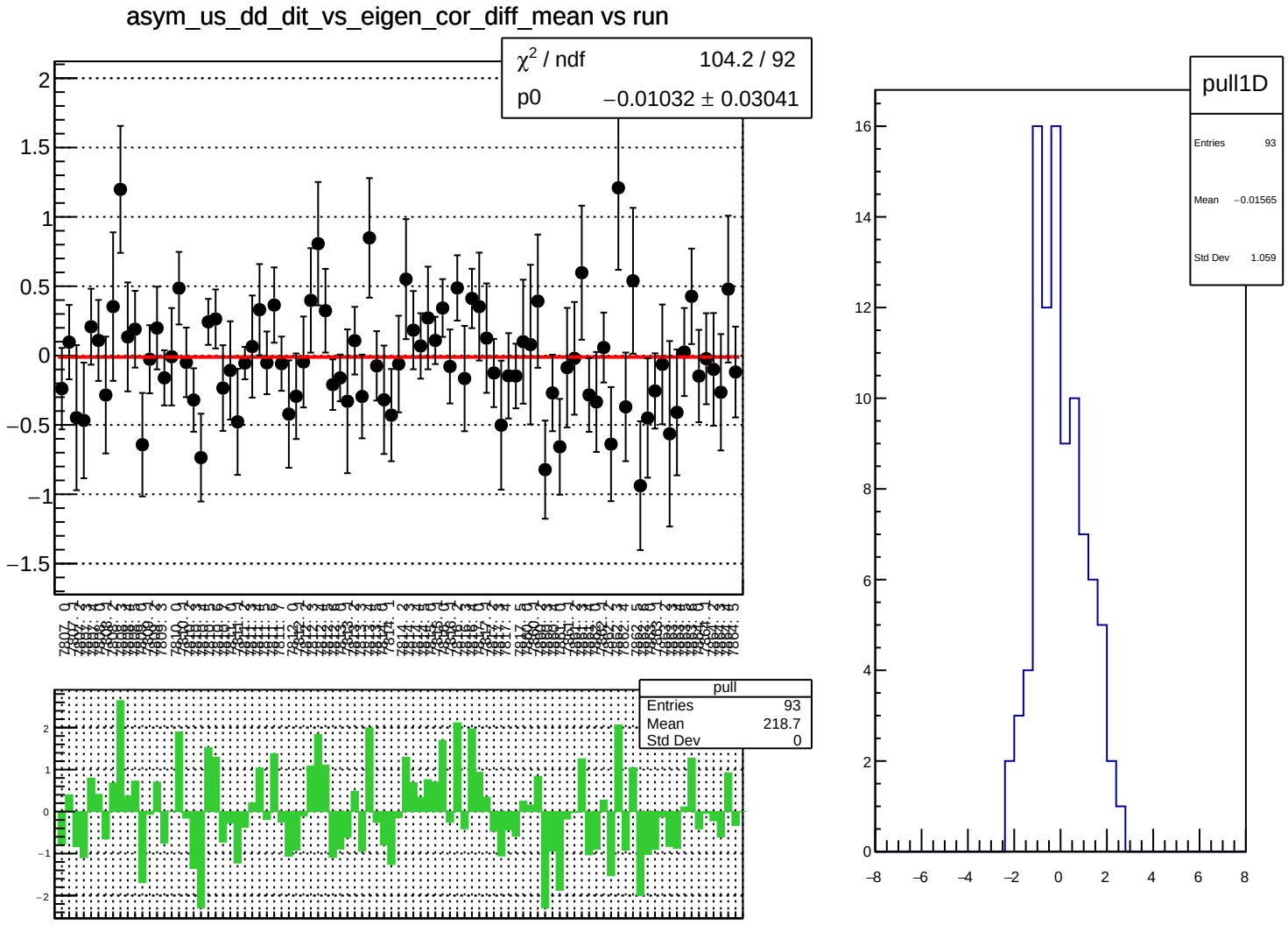

asym_us_dd_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 71.1 / 92
p0 1.171e−14 ± 2.031e−13
20
10
0
−10
−20
−30
−40
pull
Entries 93
Mean 37.86
Std Dev 32.74
2
1
0
−1
−2

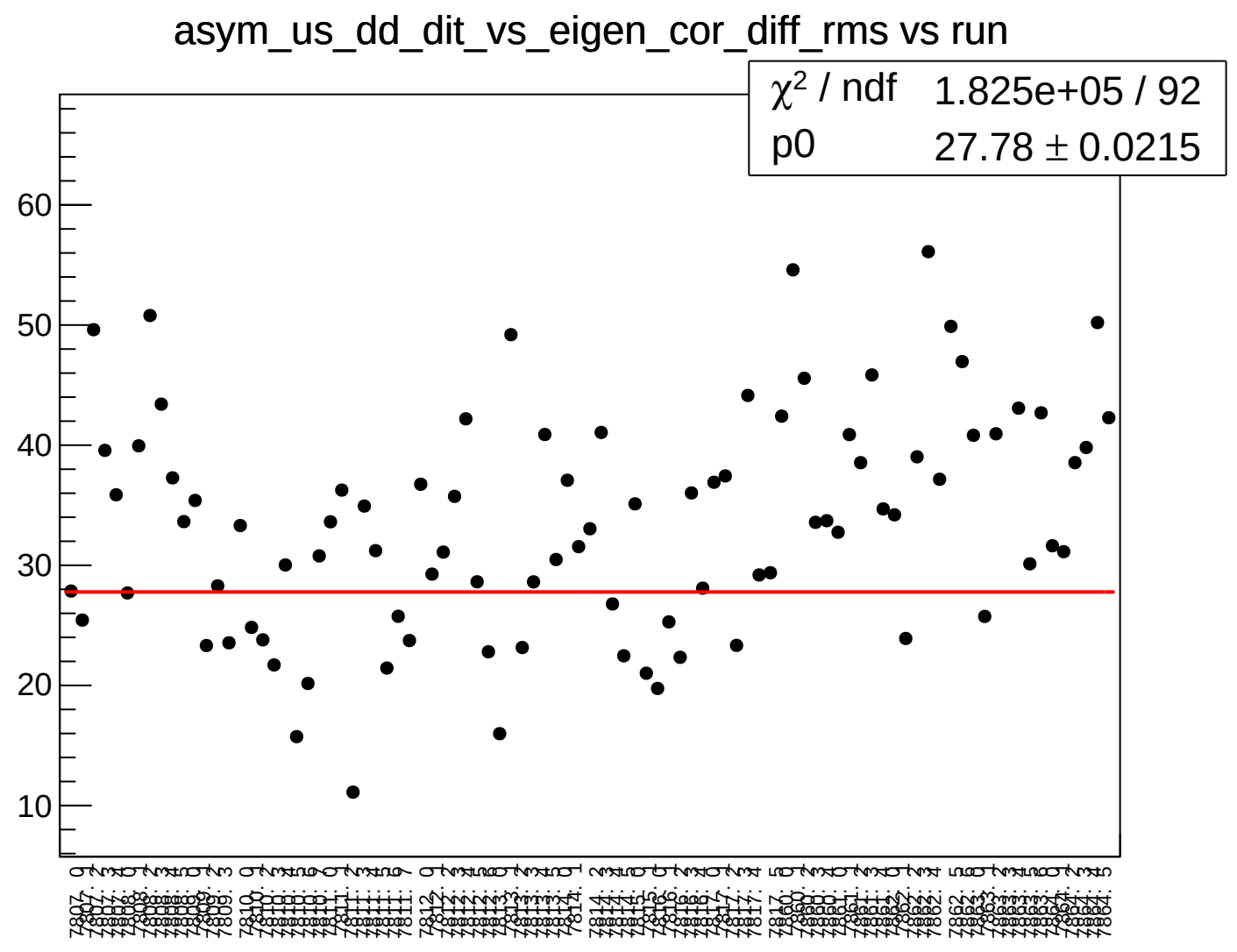

pull1D
Entries 93
Mean −0.1281
Std Dev 0.8649
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

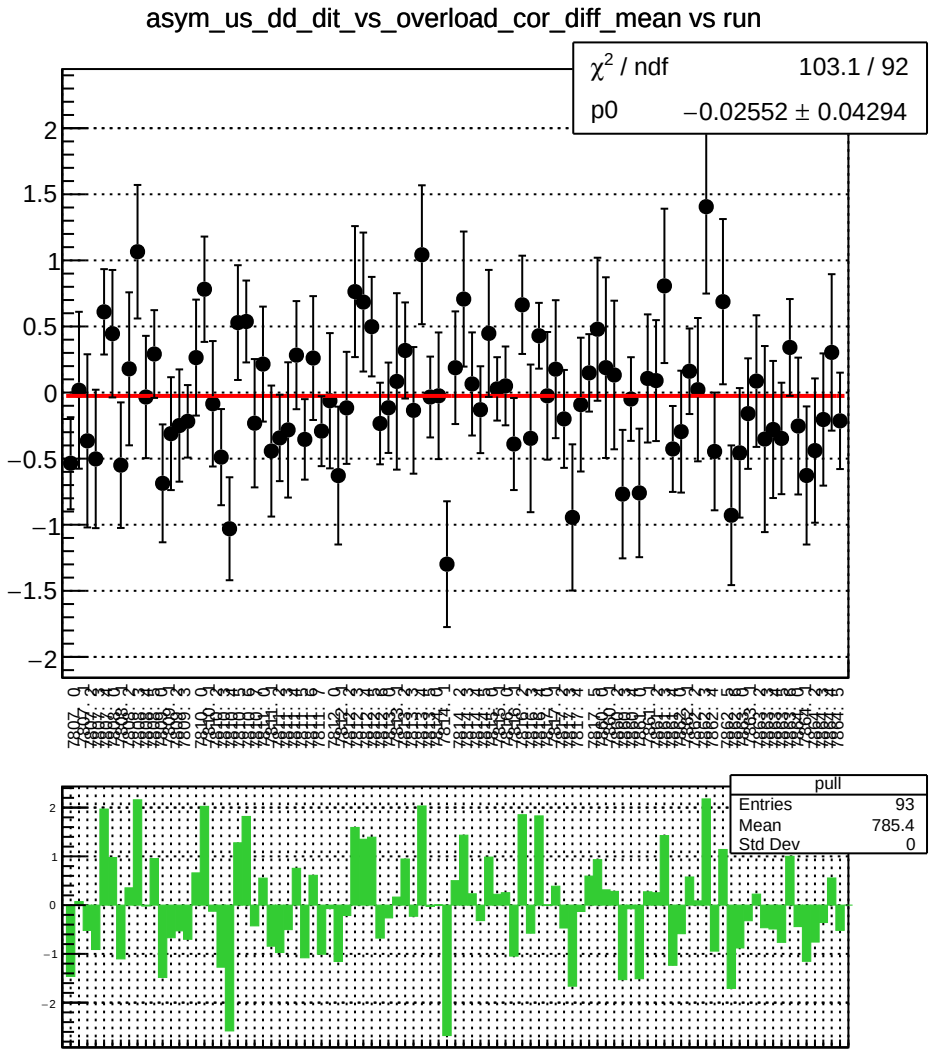

asym_us_dd_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.082e+06 / 92
p0 1.26e−10 ± 1.436e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

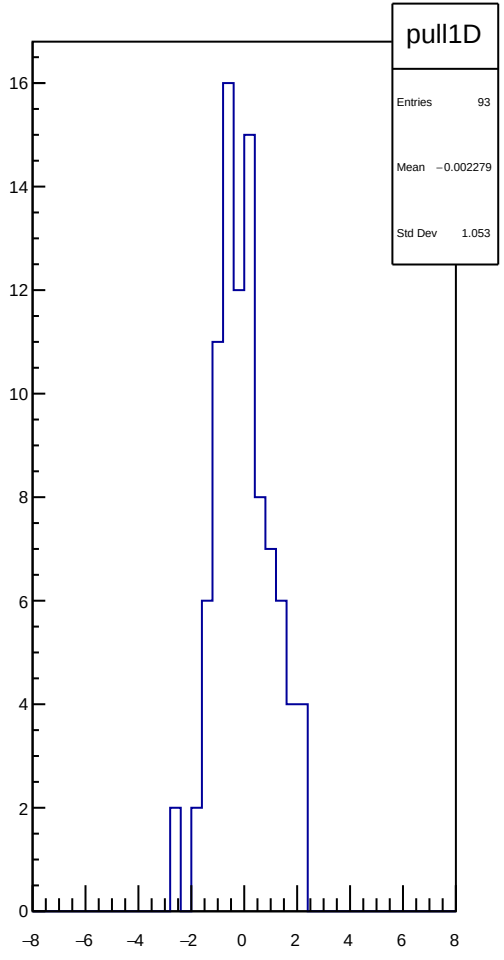

asym_us_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 104.2 / 92
p0 −0.01032 ± 0.03041
pull
Entries 93
Mean 218.7
Std Dev 0
pull1D
Entries 93
Mean −0.01565
Std Dev 1.059

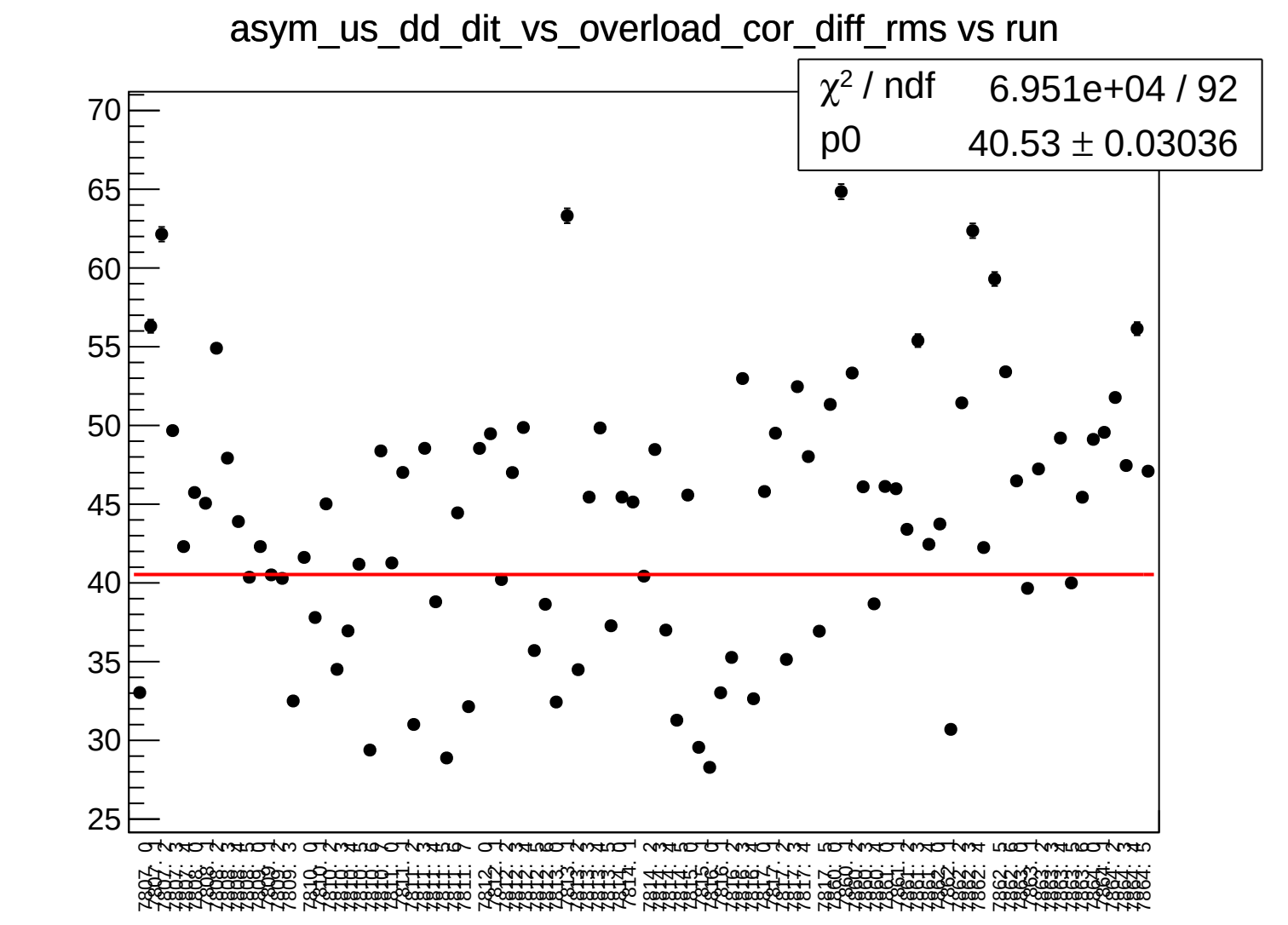

asym_us_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.825e+05 / 92
p0 27.78 ± 0.0215
60
50
40
30
20
10

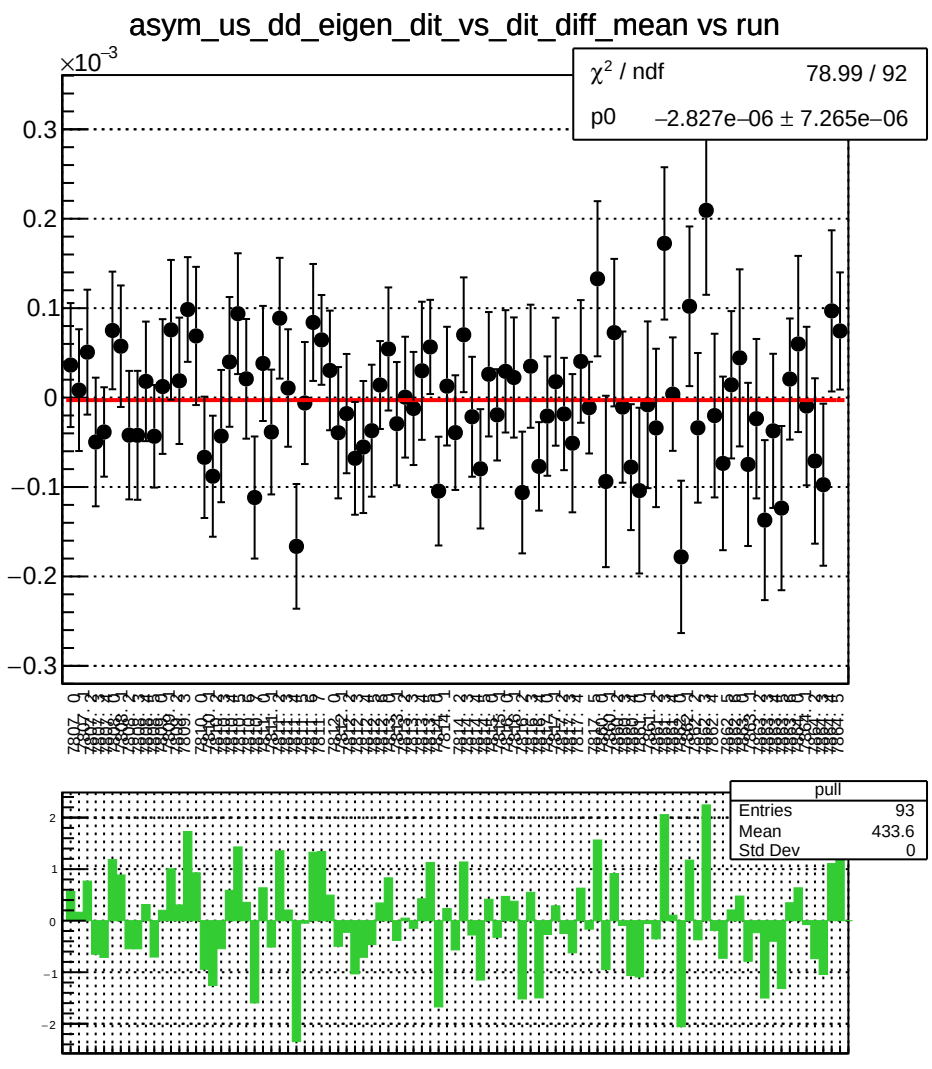

asym_us_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.2 / 92
p0 −0.01032 ± 0.03041
pull
Entries 93
Mean 218.7
Std Dev 0
pull1D
Entries 93
Mean −0.01565
Std Dev 1.059

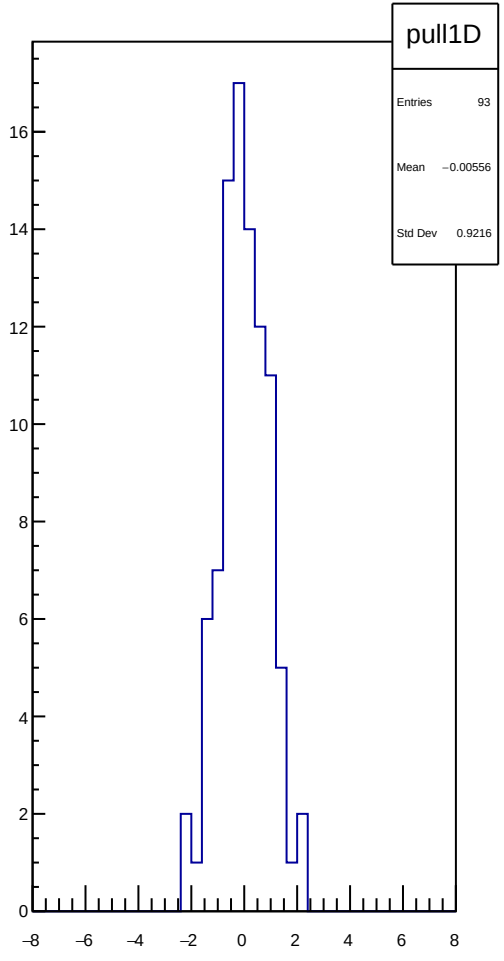

asym_us_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.825e+05 / 92
p0 27.78 ± 0.0215
60
50
40
30
20
10

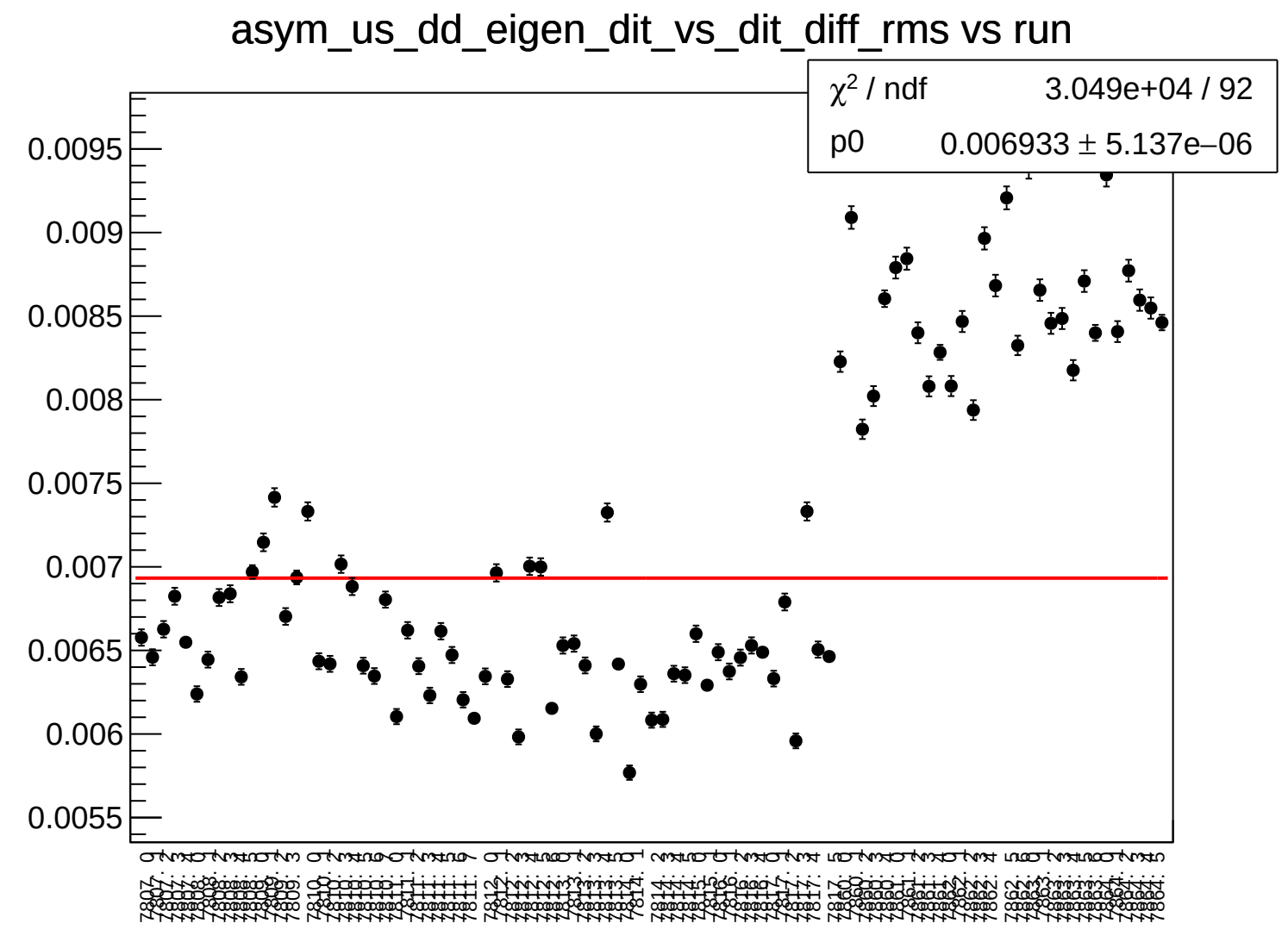

asym_us_dd_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 103.1 / 92
p0 −0.02552 ± 0.04294
pull
Entries 93
Mean 785.4
Std Dev 0

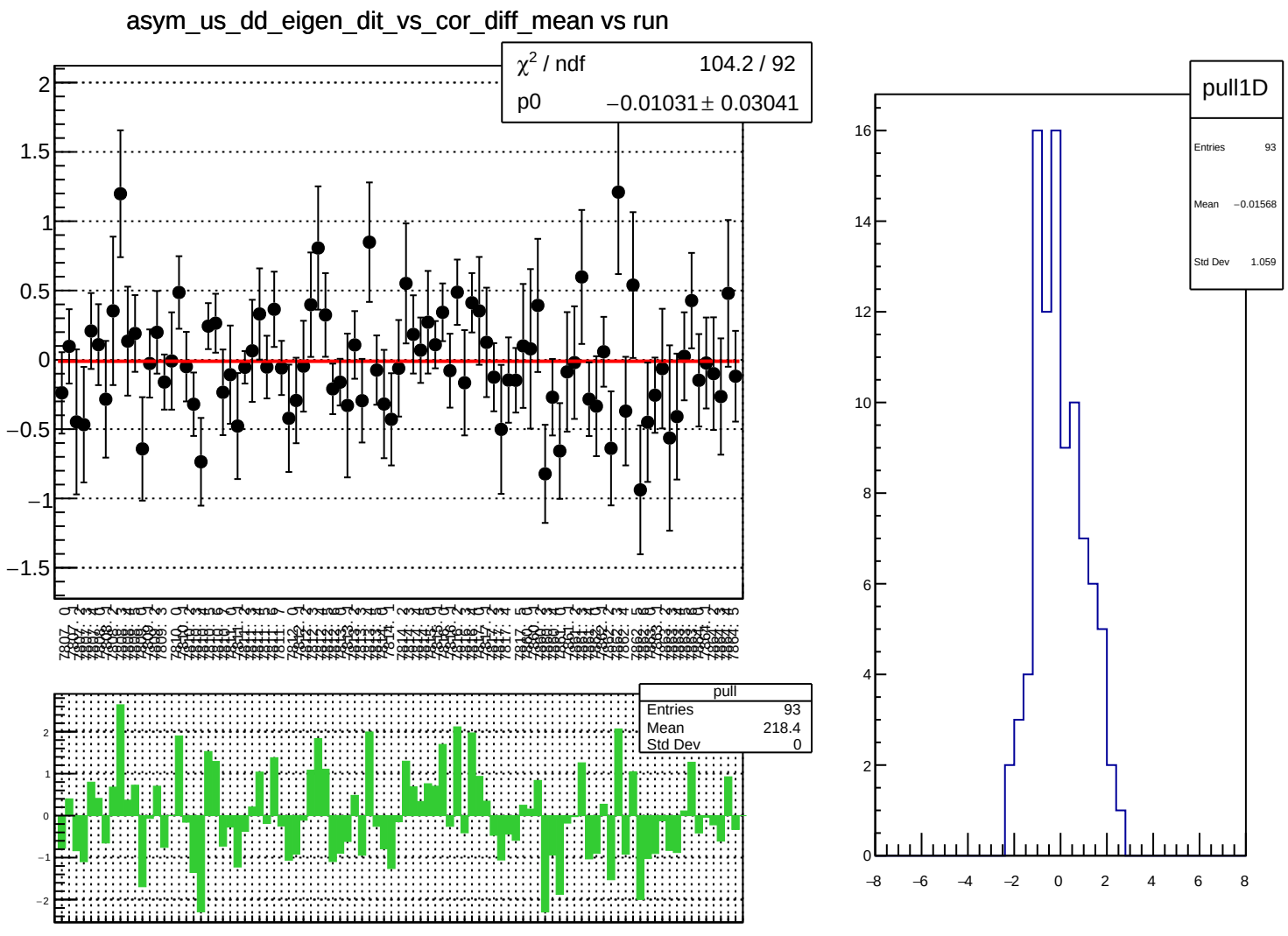

pull1D
Entries 93
Mean −0.002279
Std Dev 1.053

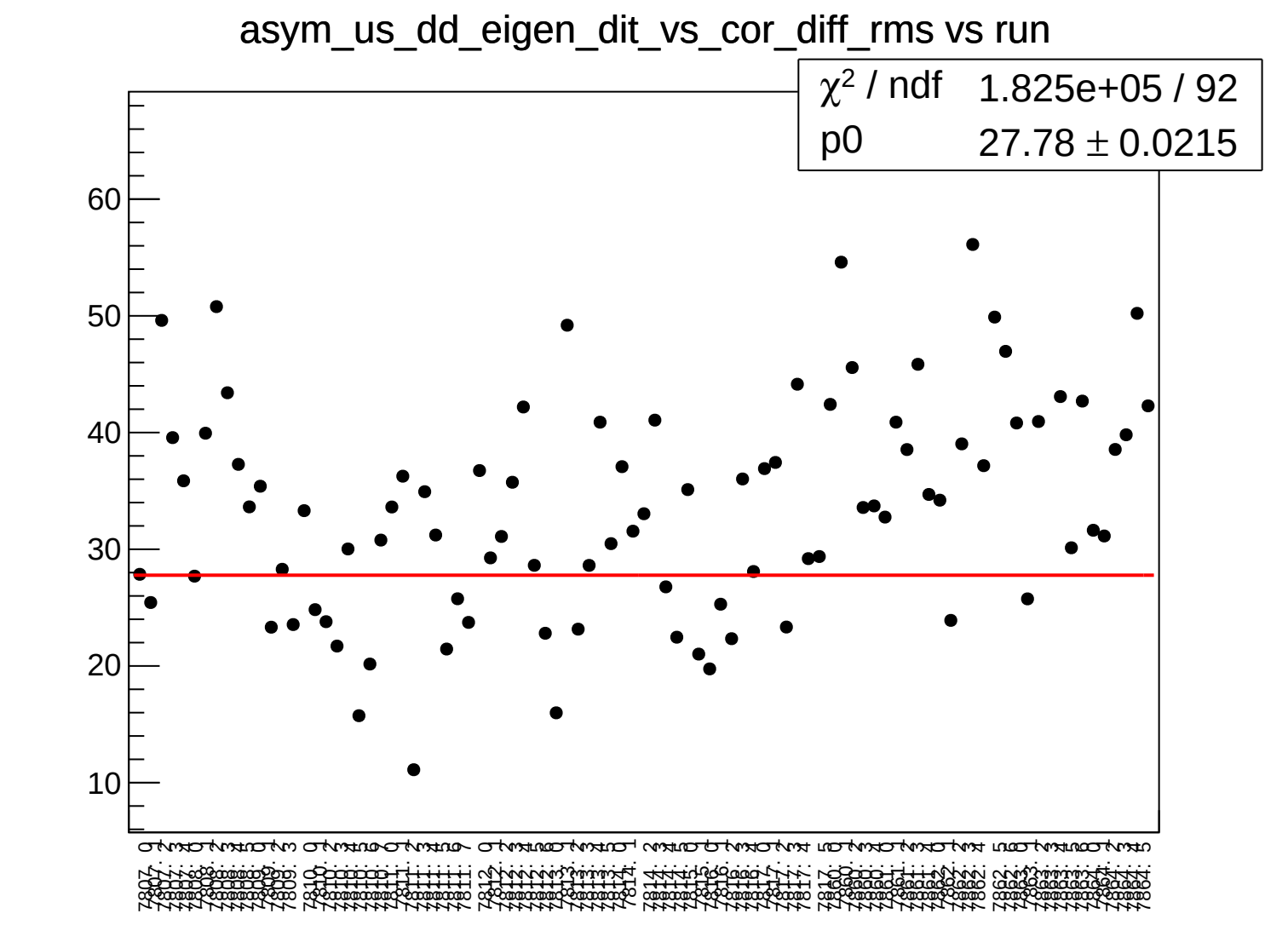

asym_us_dd_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 6.951e+04 / 92
p0 40.53 ± 0.03036
70
65
60
55
50
45
40
35
30
25

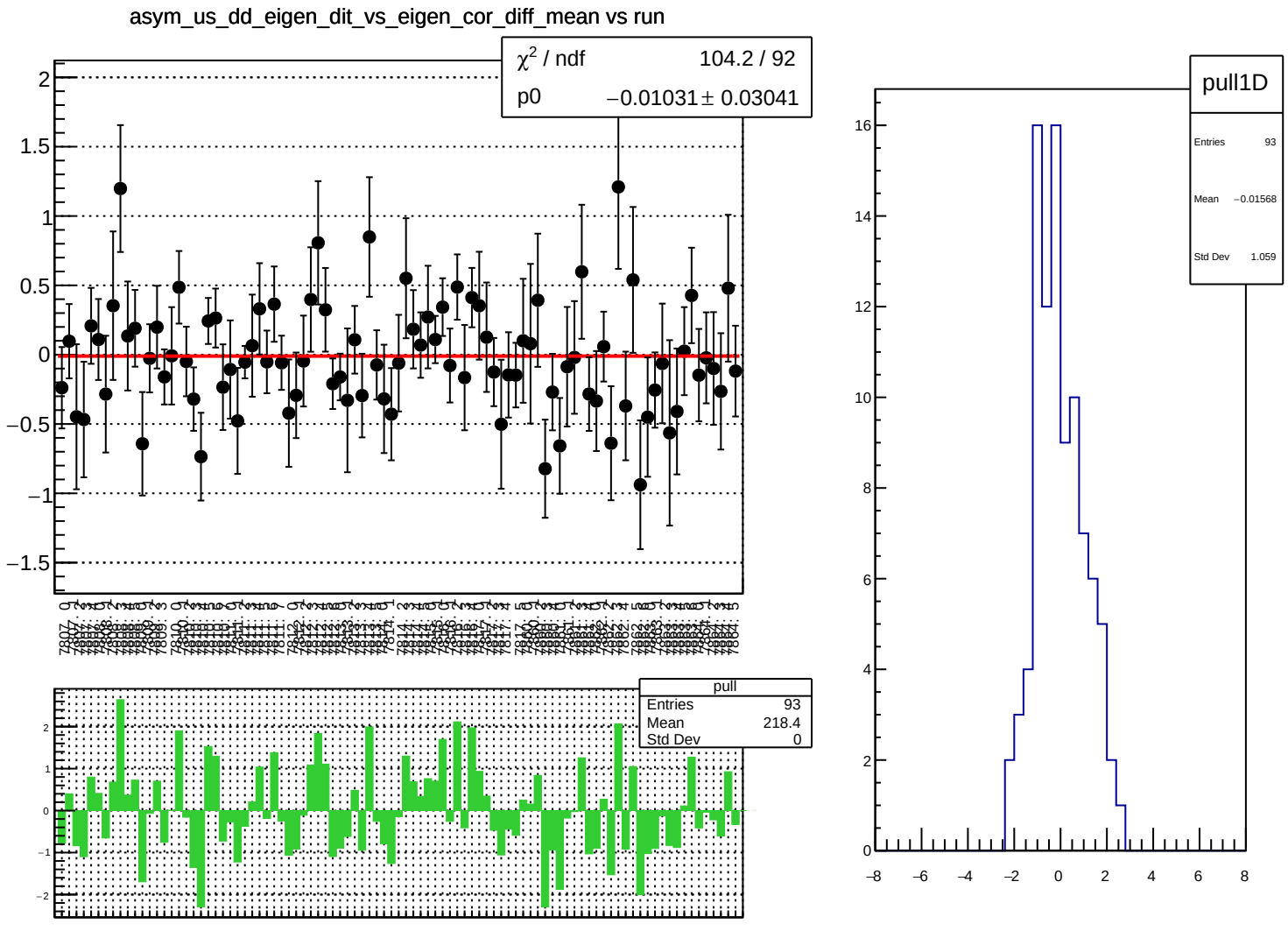

asym_us_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 78.99 / 92
p0 −2.827e−06 ± 7.265e−06
pull
Entries 93
Mean 433.6
Std Dev 0

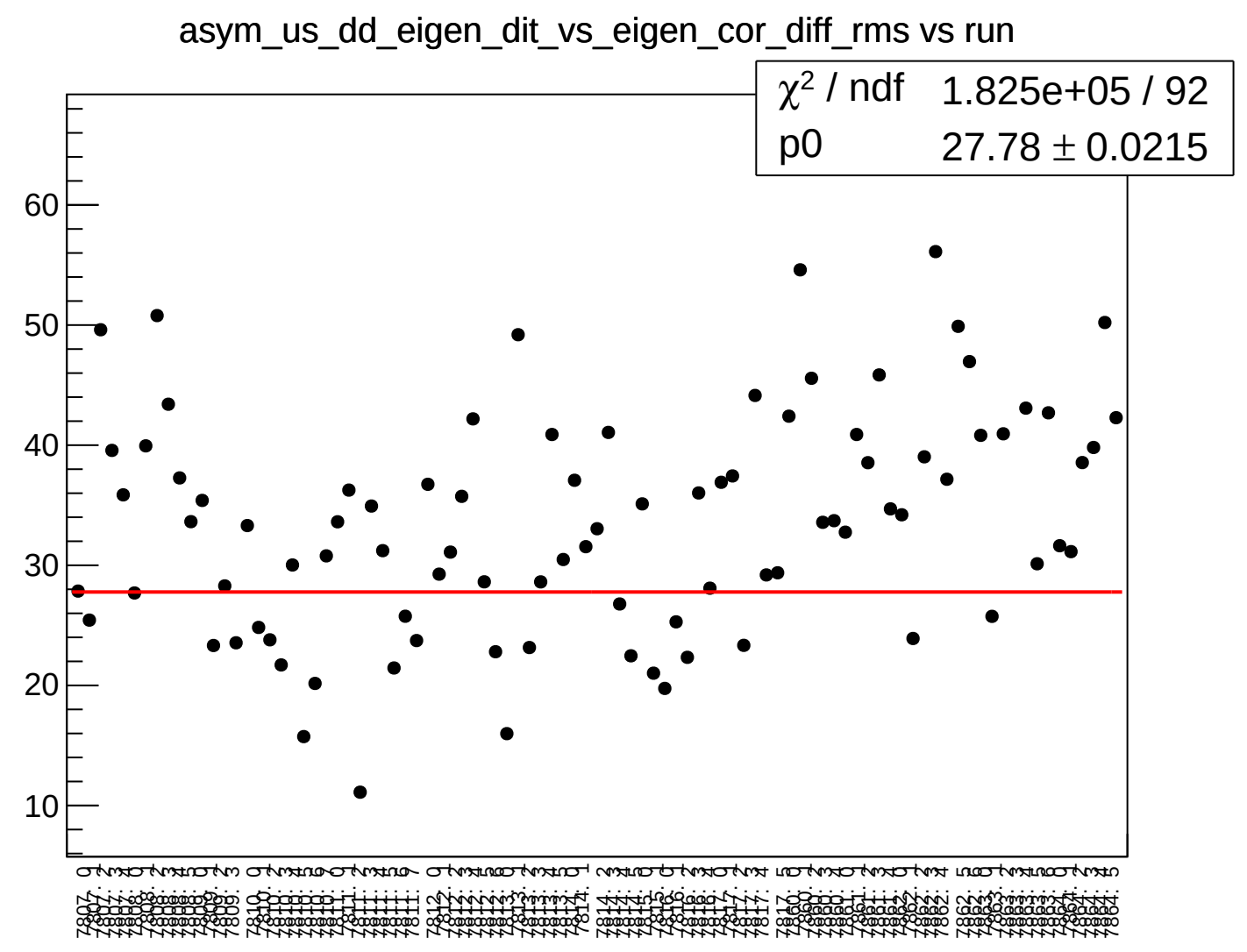

pull1D
Entries 93
Mean −0.00556
Std Dev 0.9216

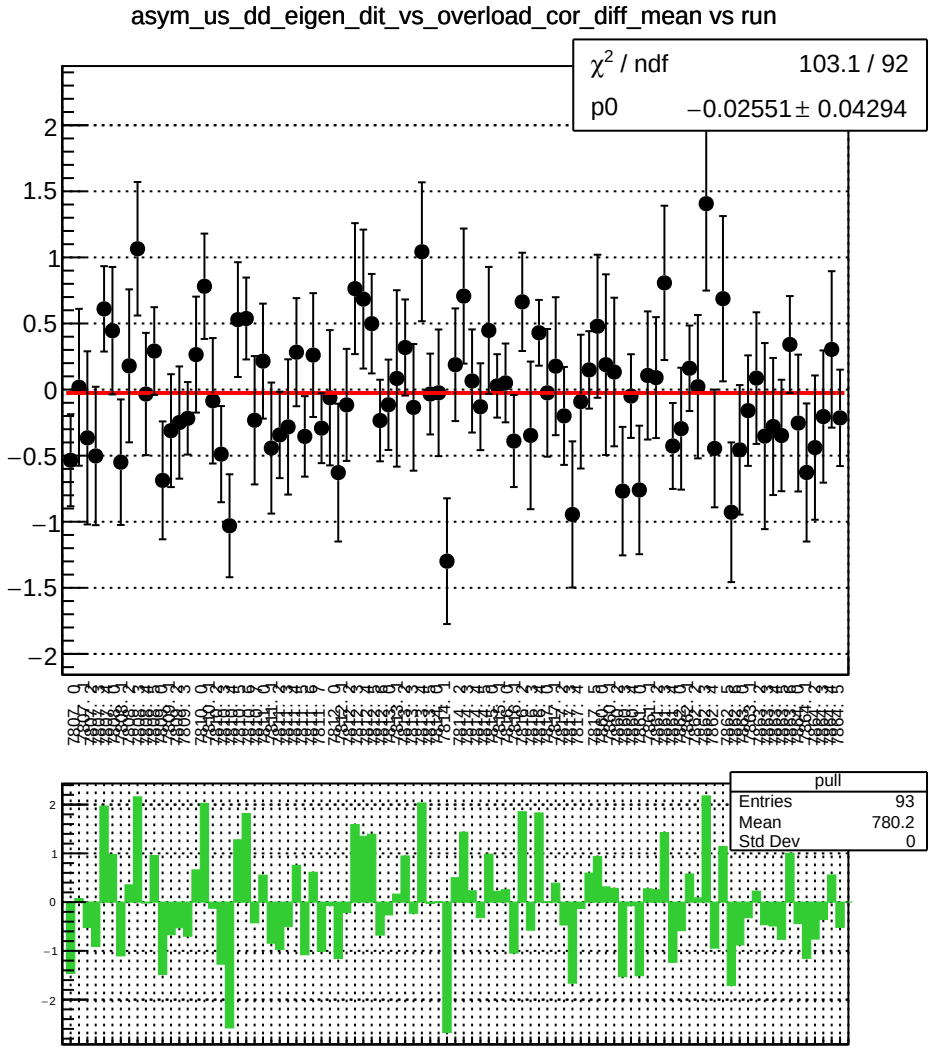

asym_us_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.049e+04 / 92
p0 0.006933 ± 5.137e−06
0.0095
0.009
0.0085
0.008
0.0075
0.007
0.0065
0.006
0.0055

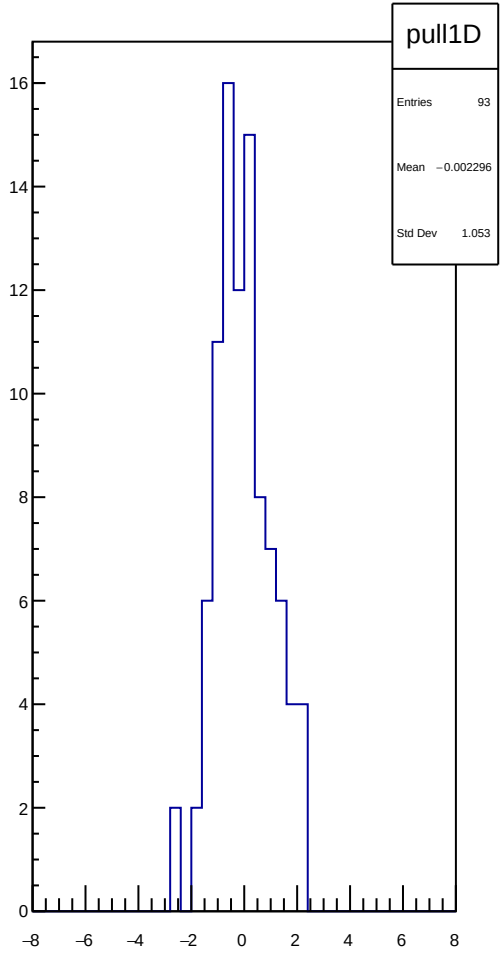

asym_us_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 104.2 / 92
p0 −0.01031 ± 0.03041
pull
Entries 93
Mean 218.4
Std Dev 0
pull1D
Entries 93
Mean −0.01568
Std Dev 1.059

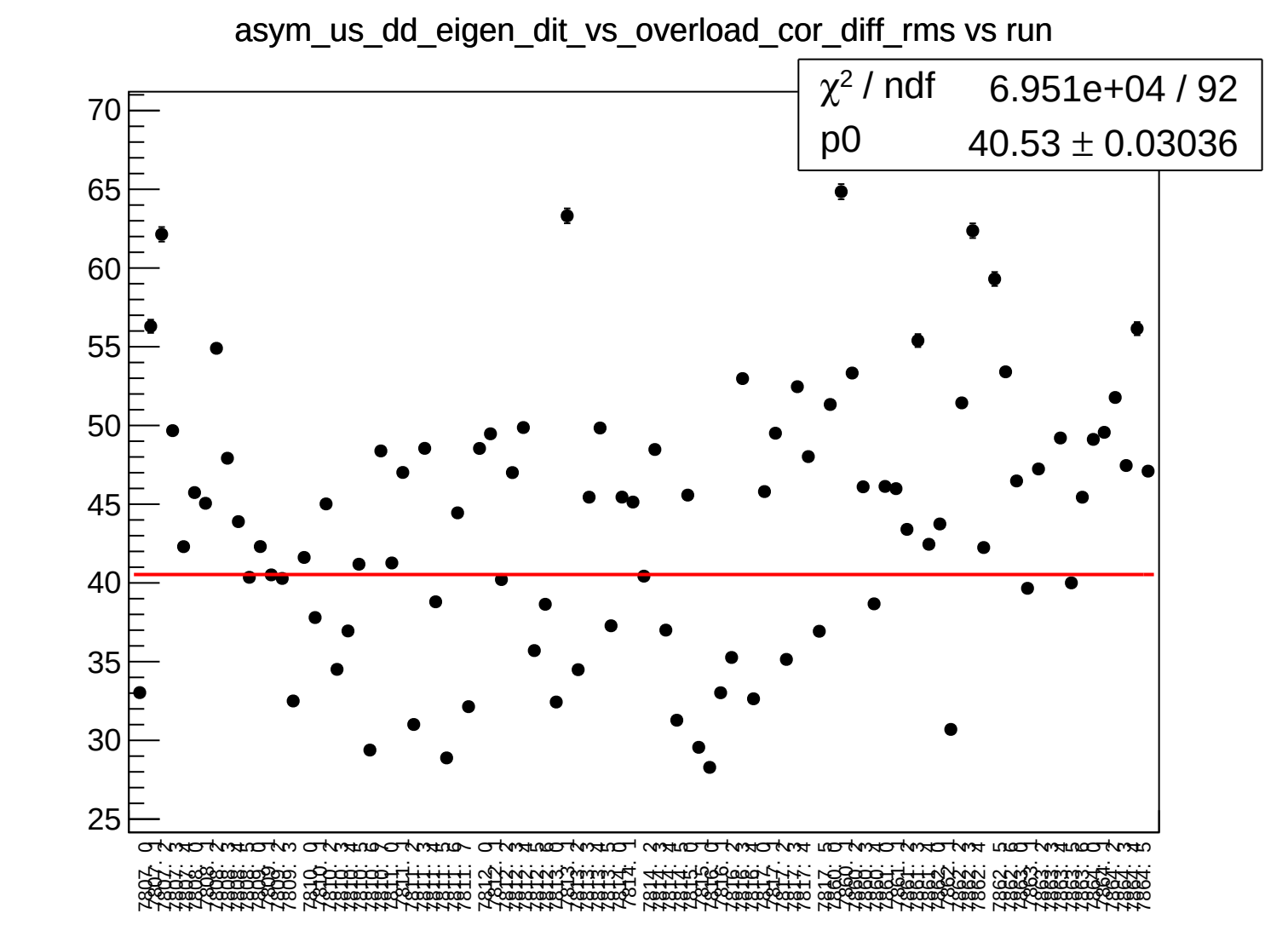

asym_us_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.825e+05 / 92
p0 27.78 ± 0.0215
60
50
40
30
20
10

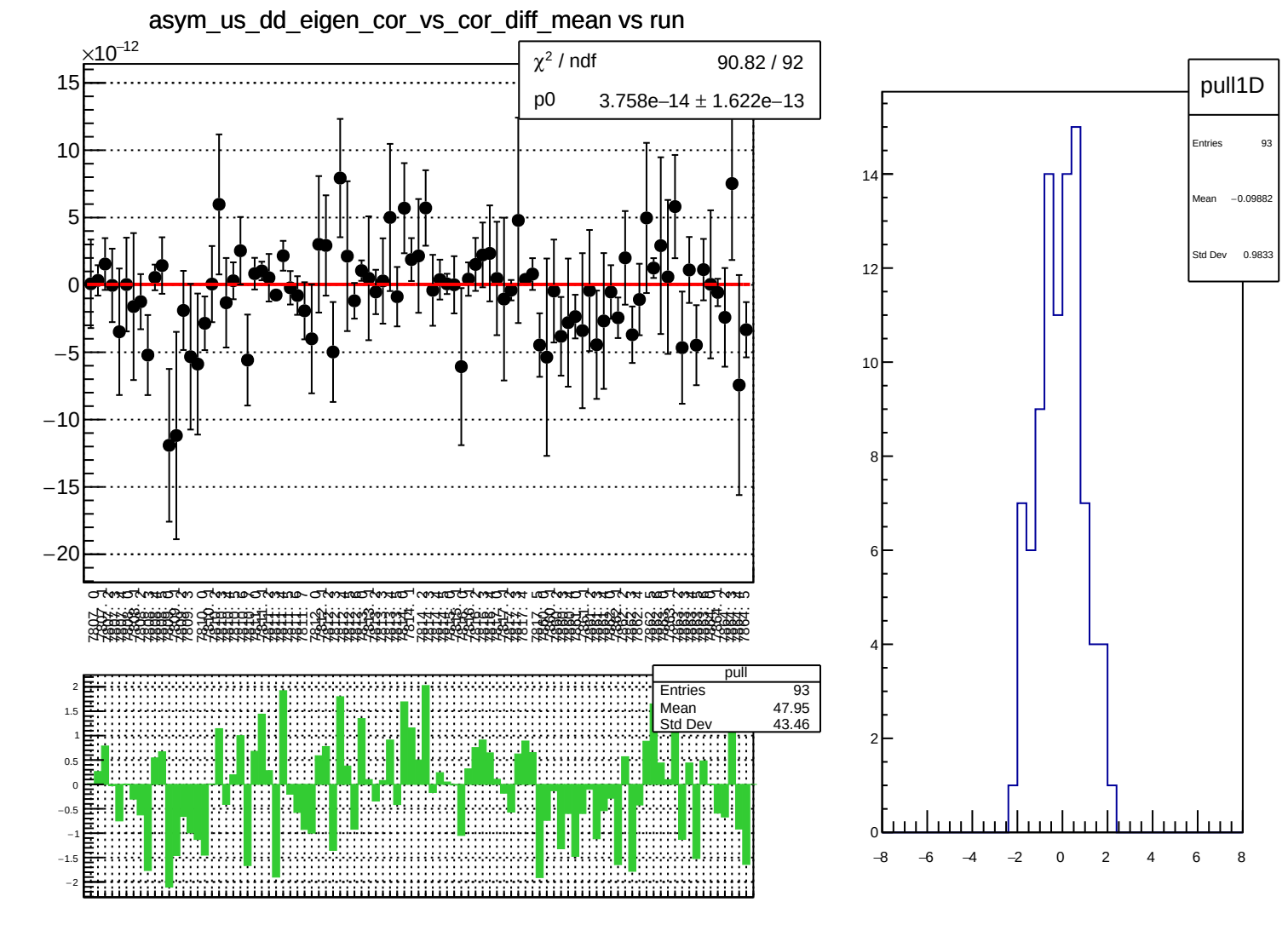

asym_us_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.2 / 92
p0 −0.01031 ± 0.03041
pull
Entries 93
Mean 218.4
Std Dev 0
pull1D
Entries 93
Mean −0.01568
Std Dev 1.059

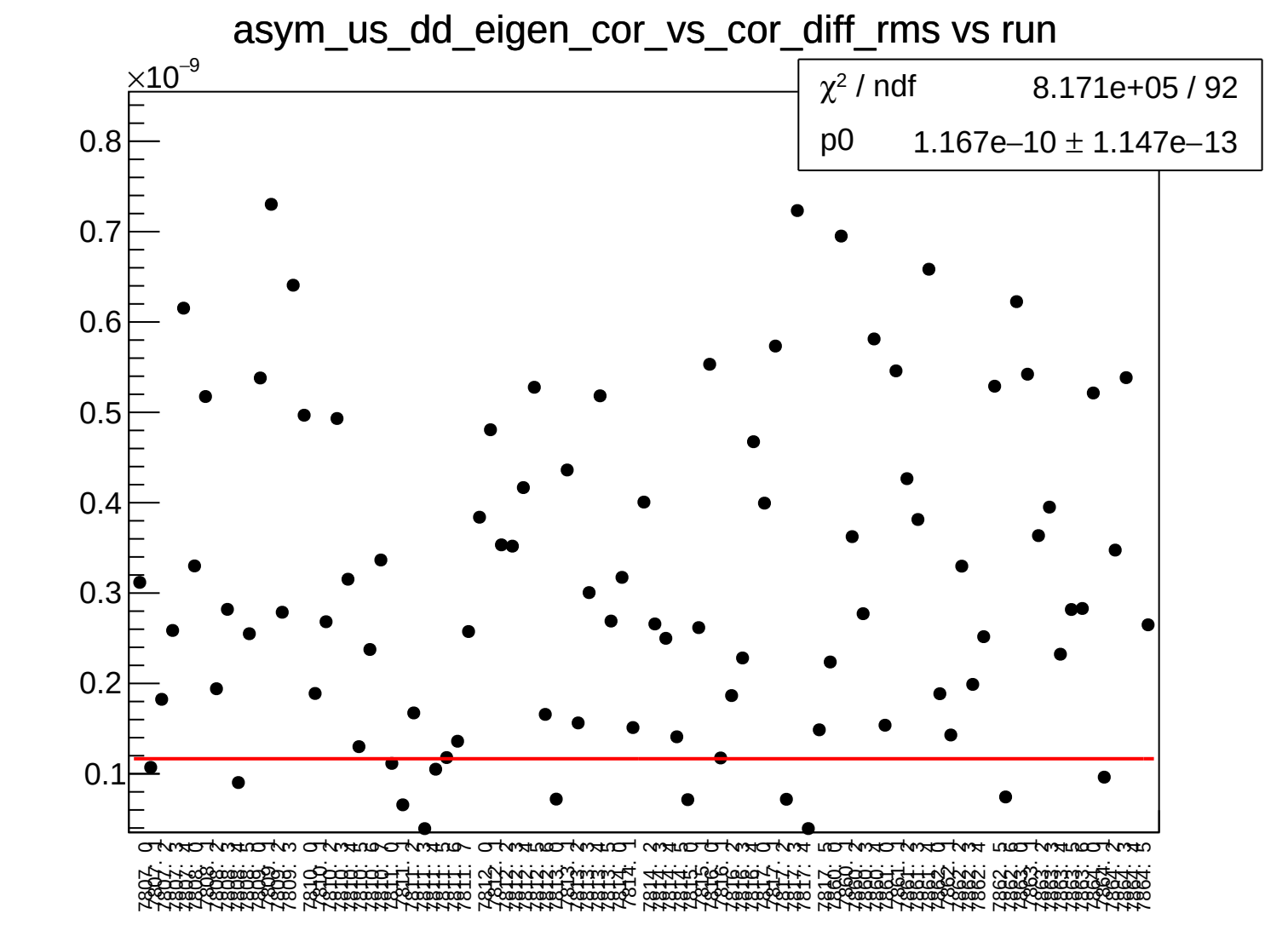

asym_us_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.825e+05 / 92
p0 27.78 ± 0.0215
60
50
40
30
20
10

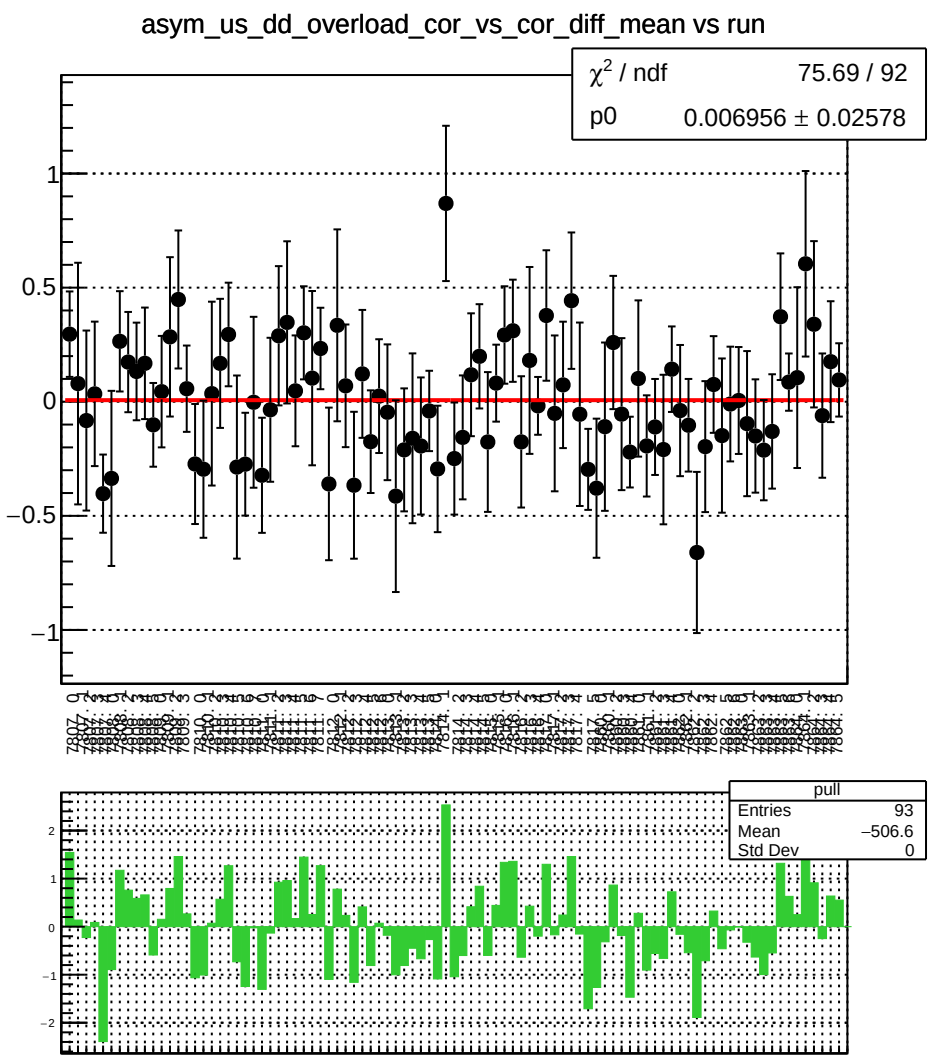

asym_us_dd_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 103.1 / 92
p0 −0.02551 ± 0.04294
pull
Entries 93
Mean 780.2
Std Dev 0

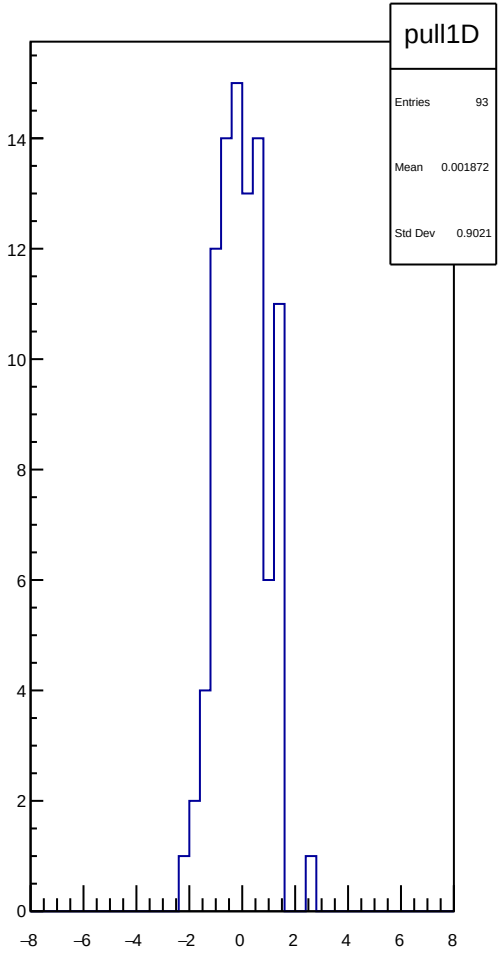

pull1D
Entries 93
Mean −0.002296
Std Dev 1.053

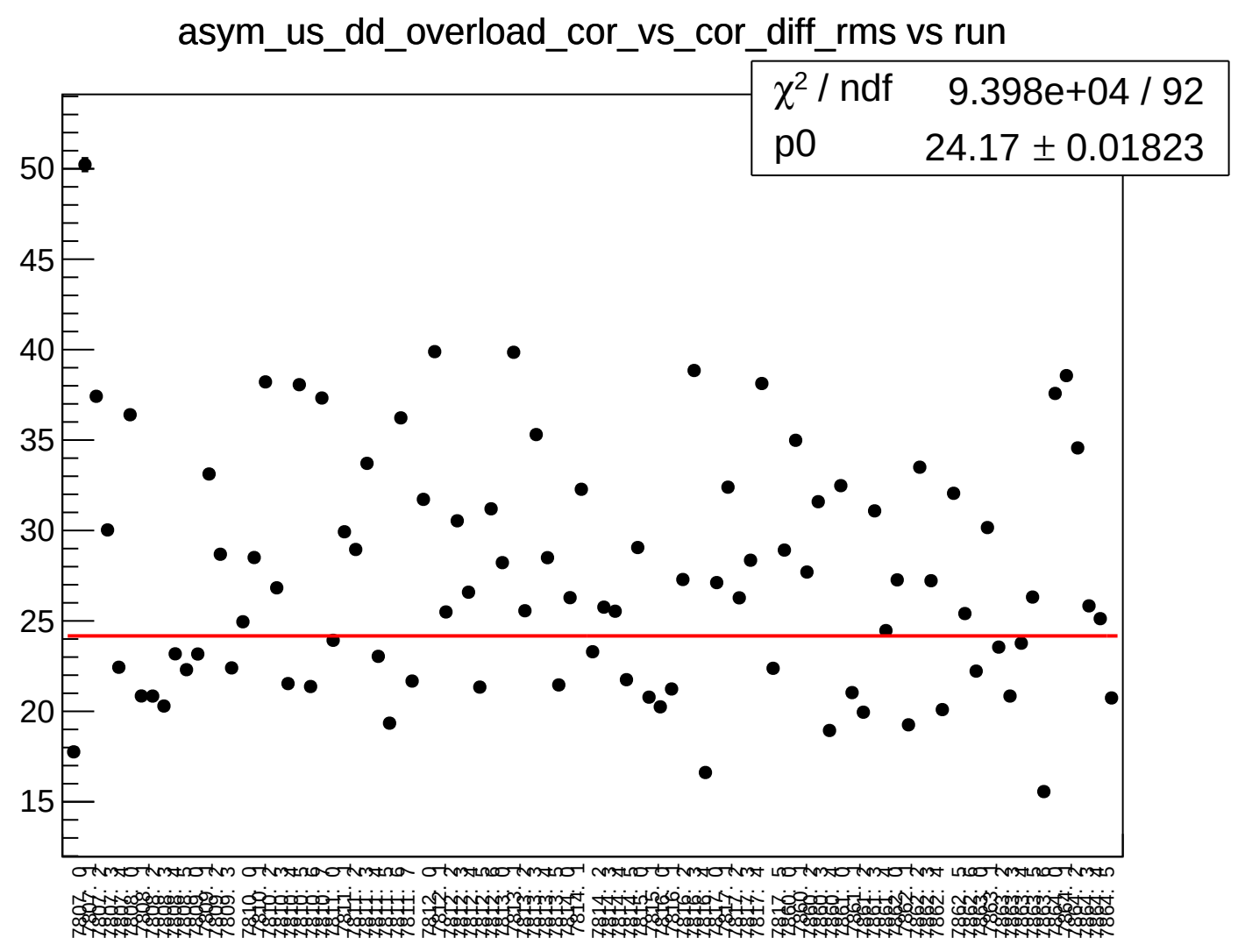

asym_us_dd_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 6.951e+04 / 92
p0 40.53 ± 0.03036
70
65
60
55
50
45
40
35
30
25

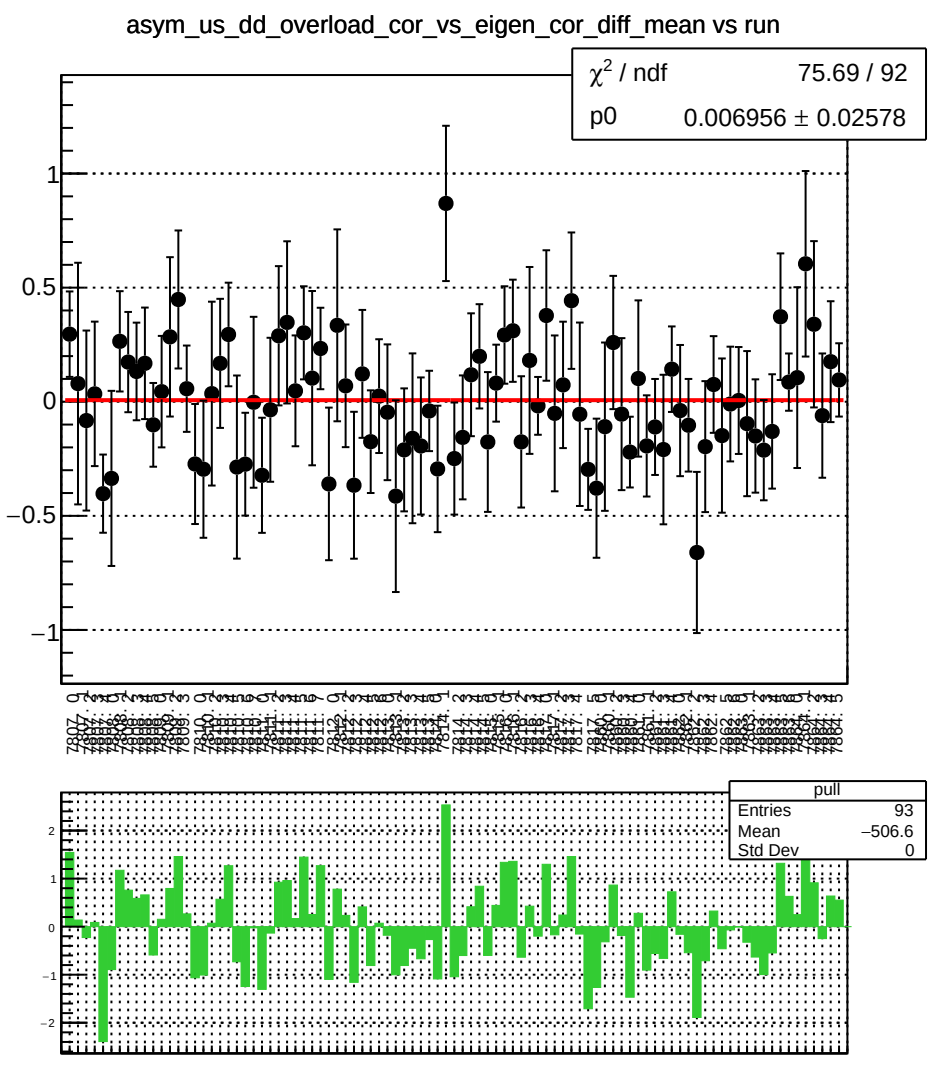

asym_us_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.82 / 92
p0 3.758e−14 ± 1.622e−13
pull
Entries 93
Mean 47.95
Std Dev 43.46
pull1D
Entries 93
Mean −0.09882
Std Dev 0.9833

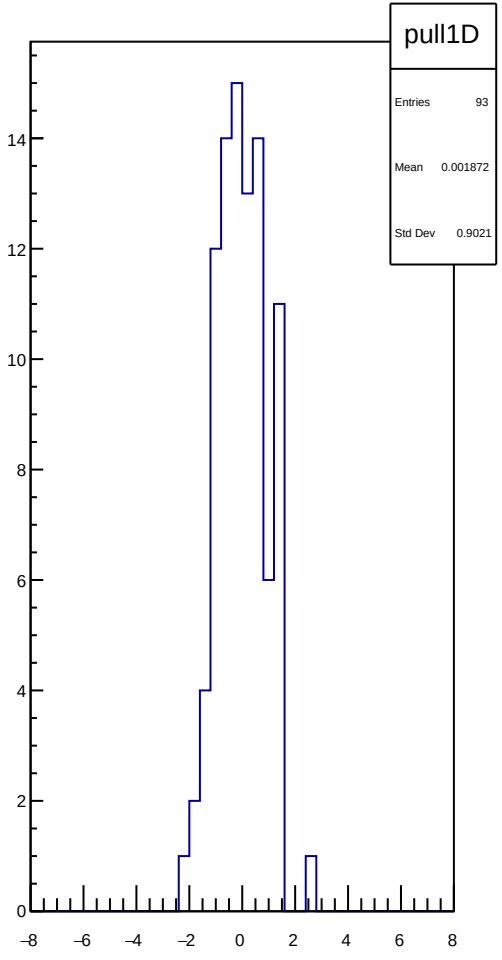

asym_us_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.171e+05 / 92
p0 1.167e−10 ± 1.147e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

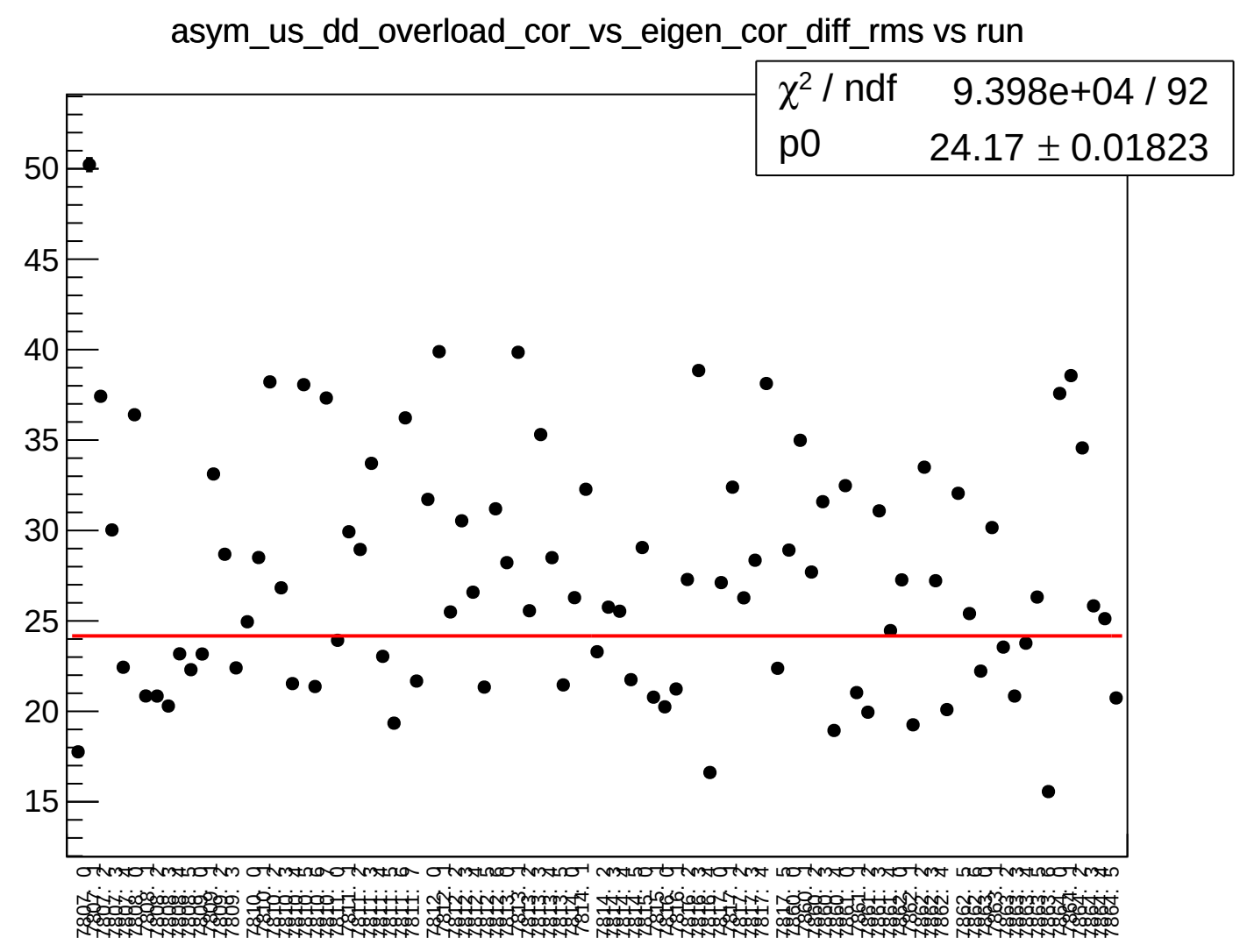

asym_us_dd_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 75.69 / 92
p0 0.006956 ± 0.02578
pull
Entries 93
Mean −506.6
Std Dev 0

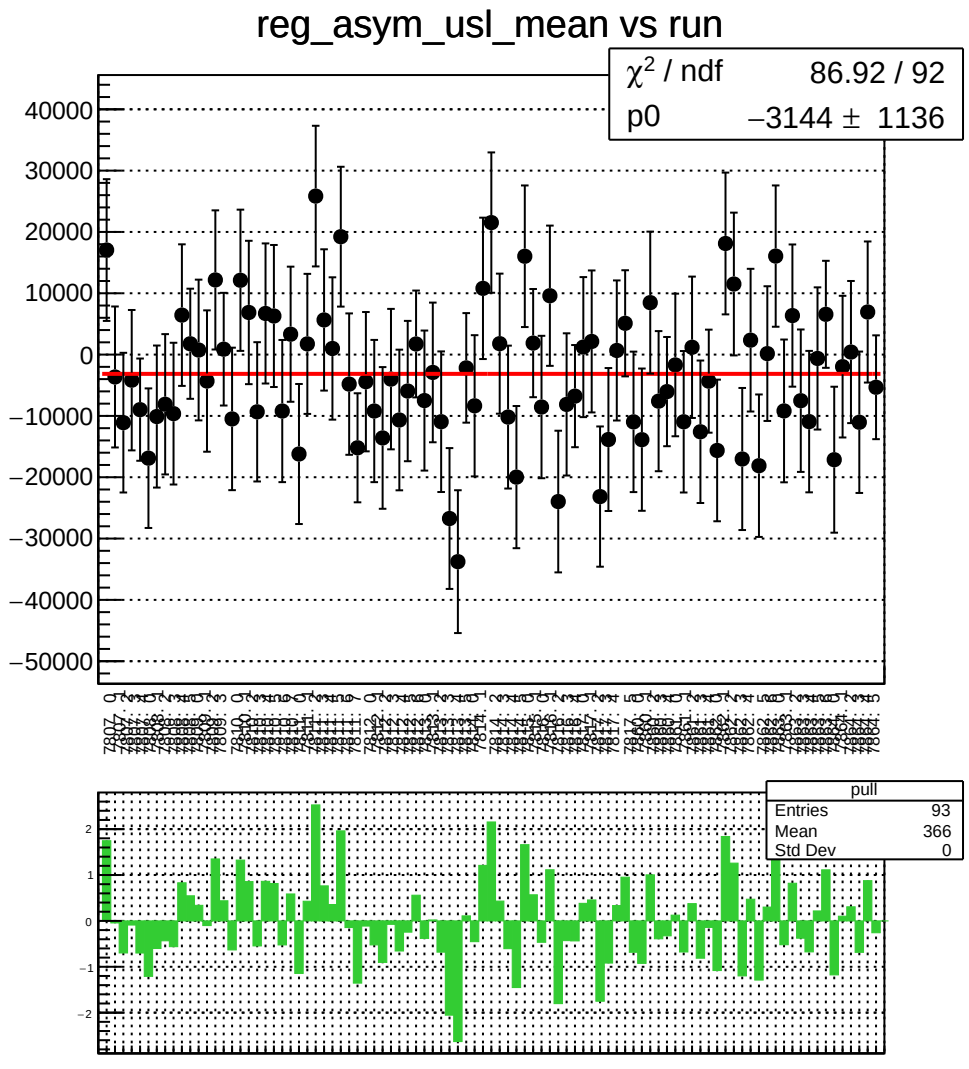

pull1D
Entries 93
Mean 0.001872
Std Dev 0.9021

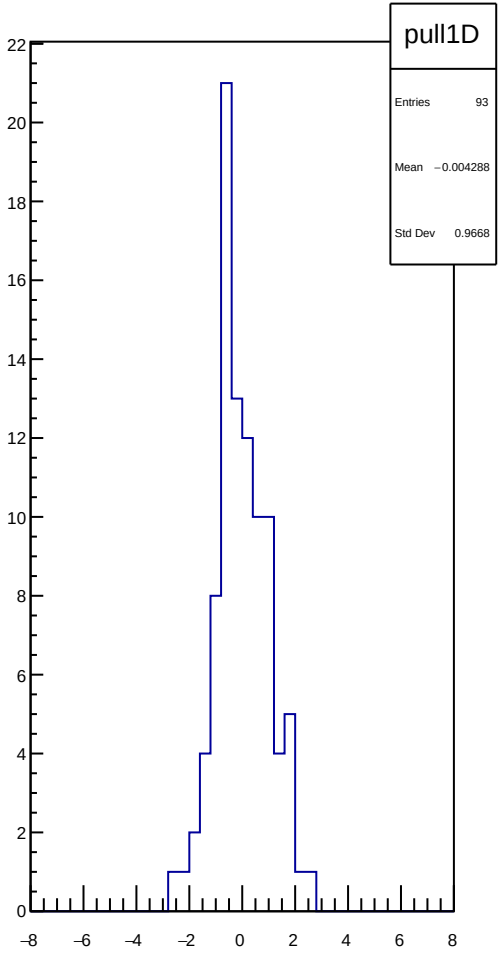

asym_us_dd_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 9.398e+04 / 92
p0 24.17 ± 0.01823
50
45
40
35
30
25
20
15

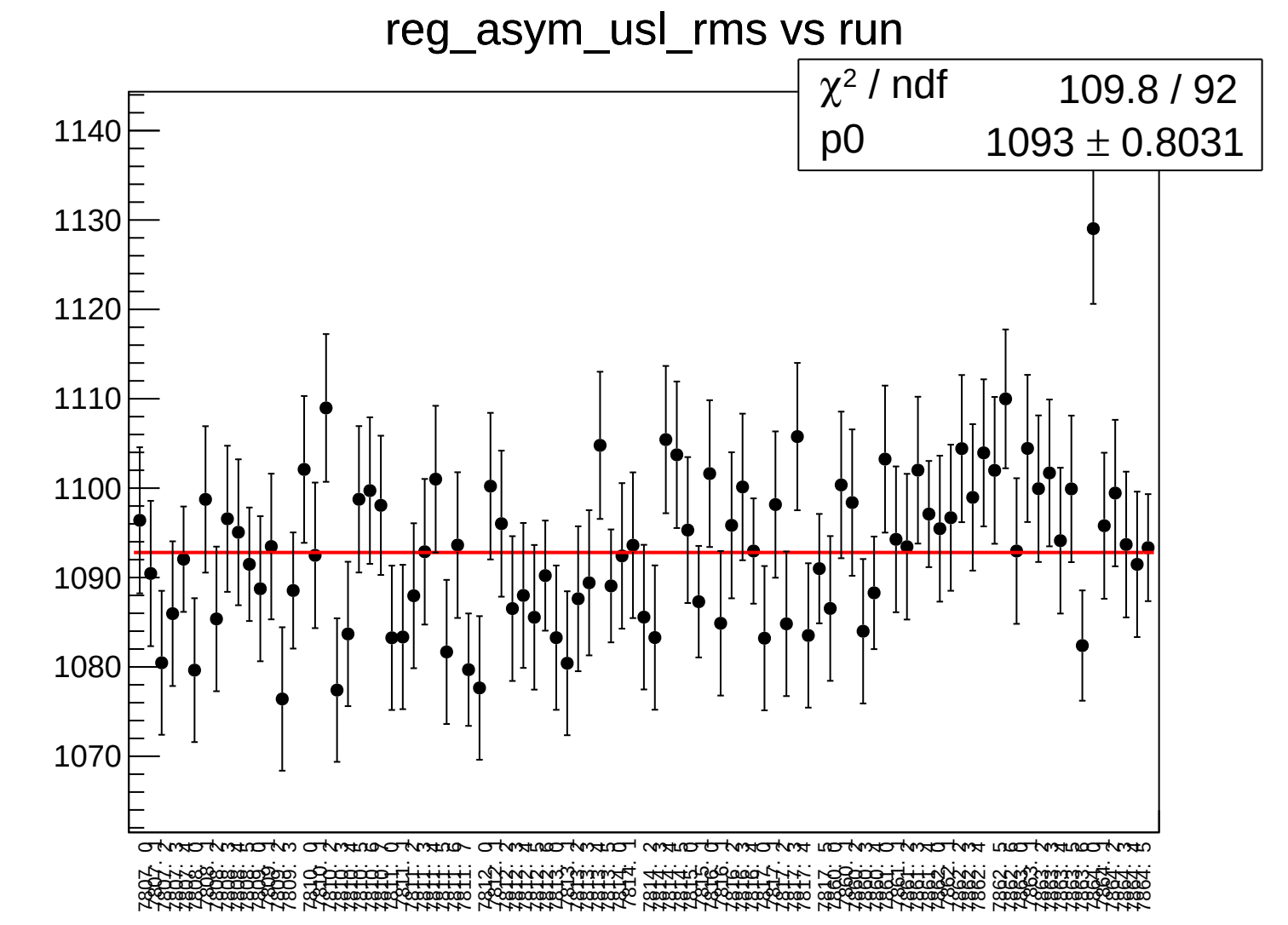

asym_us_dd_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.69 / 92
p0 0.006956 ± 0.02578
pull
Entries 93
Mean −506.6
Std Dev 0

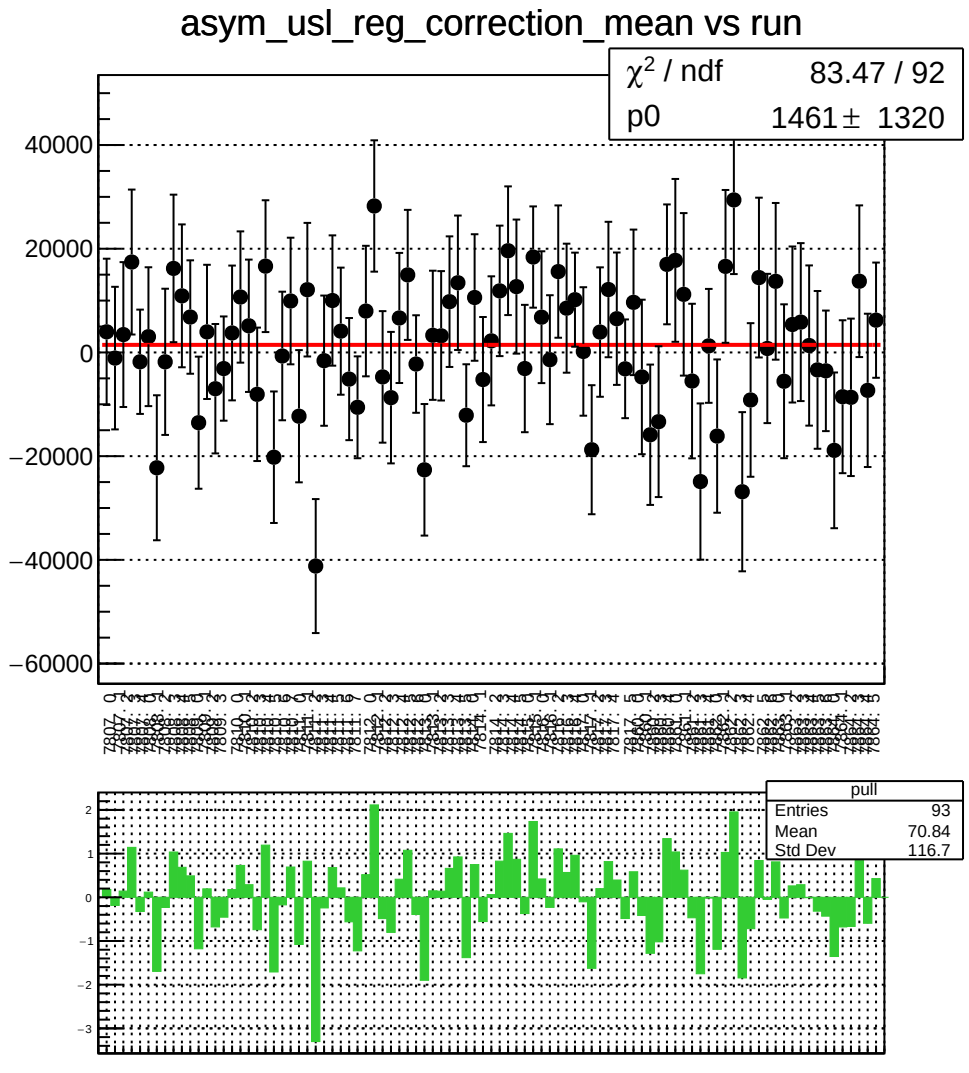

pull1D
Entries 93
Mean 0.001872
Std Dev 0.9021

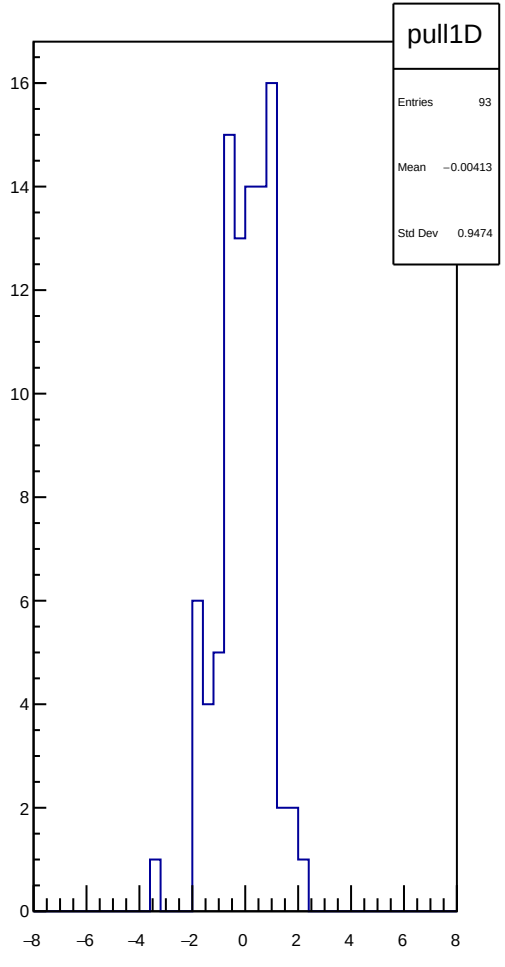

asym_us_dd_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.398e+04 / 92
p0 24.17 ± 0.01823
50
45
40
35
30
25
20
15

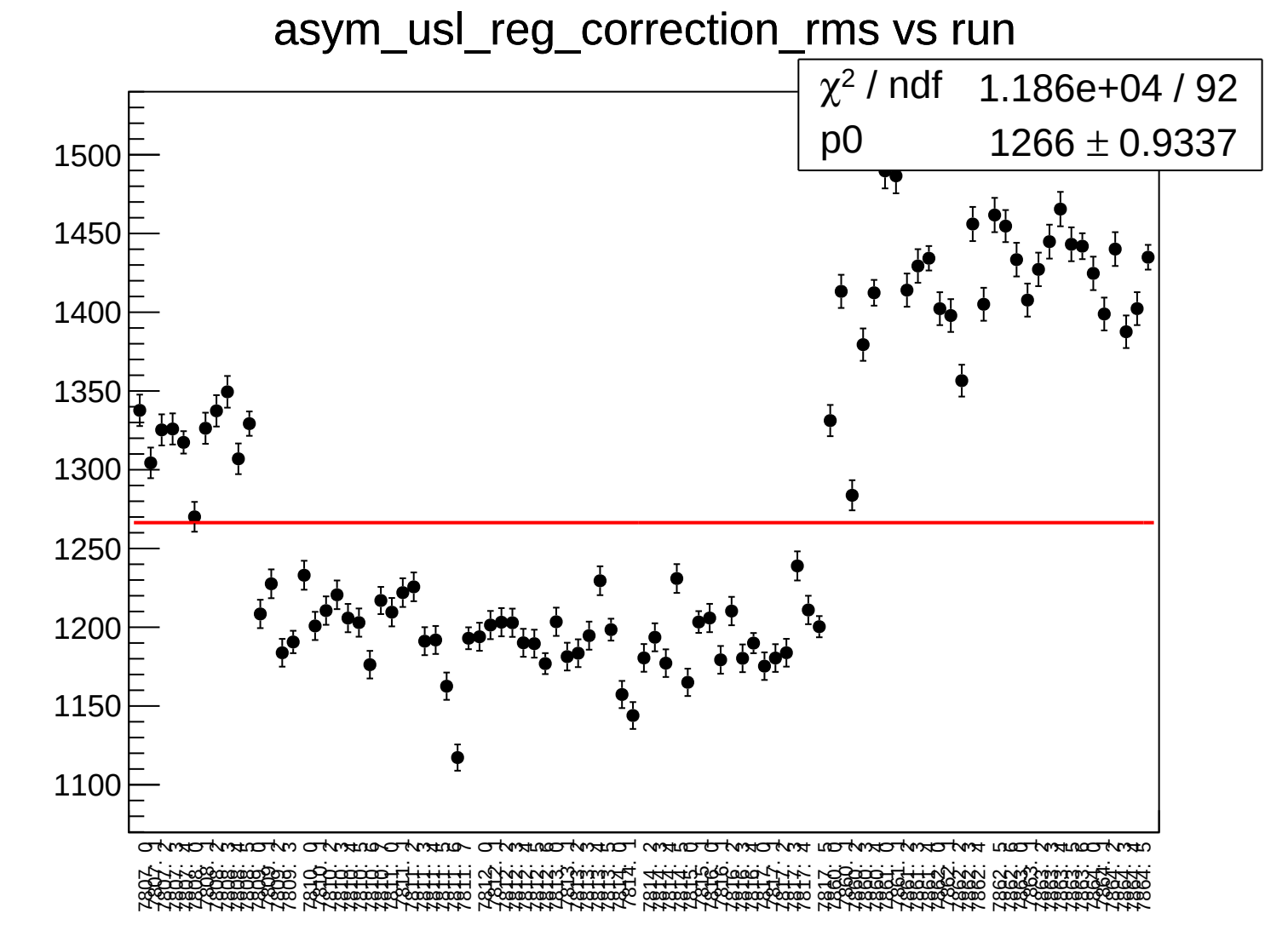

reg_asym_usl_mean vs run
χ² / ndf 86.92 / 92
p0 −3144 ± 1136
pull
Entries 93
Mean 366
Std Dev 0

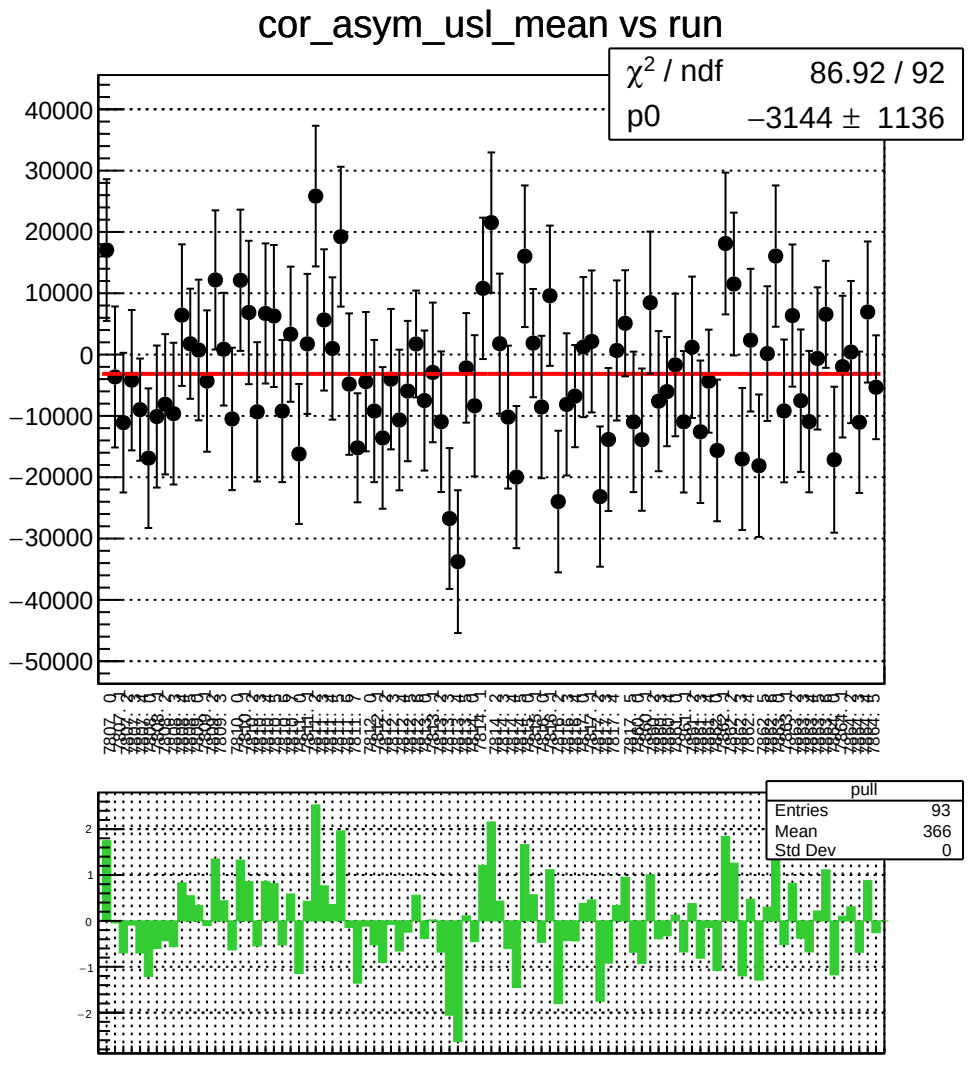

pull1D
Entries 93
Mean −0.004288
Std Dev 0.9668

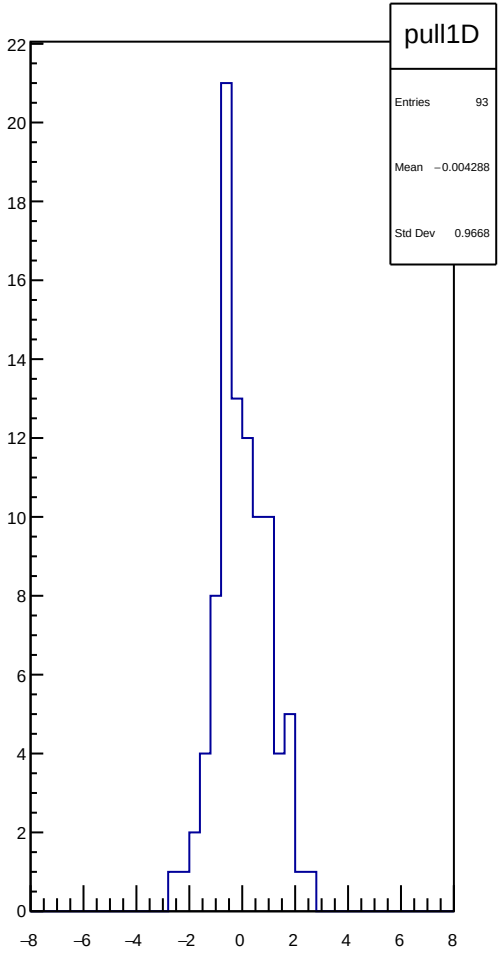

reg_asym_usl_rms vs run
χ² / ndf 109.8 / 92
p0 1093 ± 0.8031
1140
1130
1120
1110
1100
1090
1080
1070

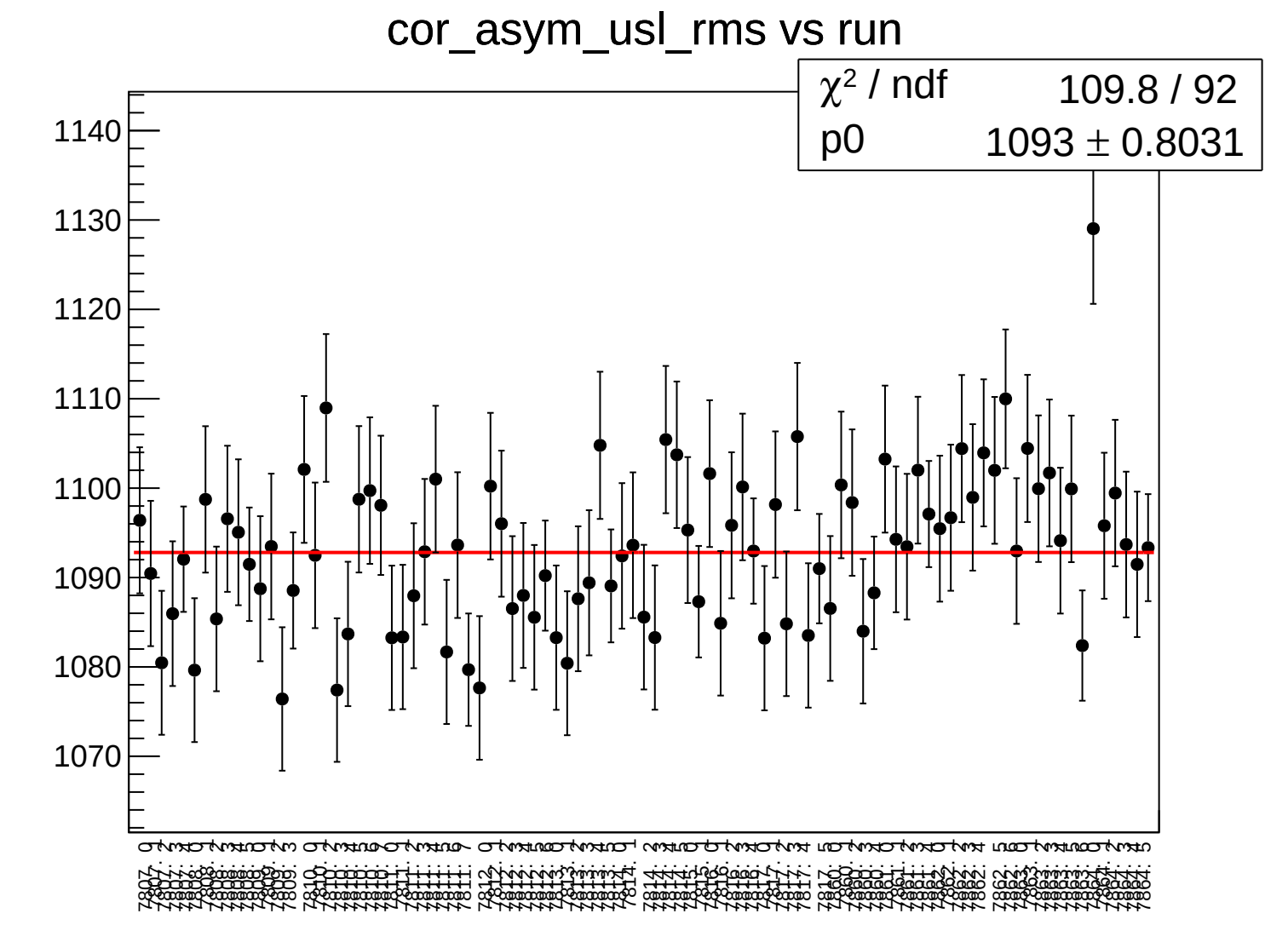

asym_usl_reg_correction_mean vs run
χ² / ndf 83.47 / 92
p0 1461 ± 1320
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 70.84
Std Dev 116.7
2
1
0
−1
−2
−3

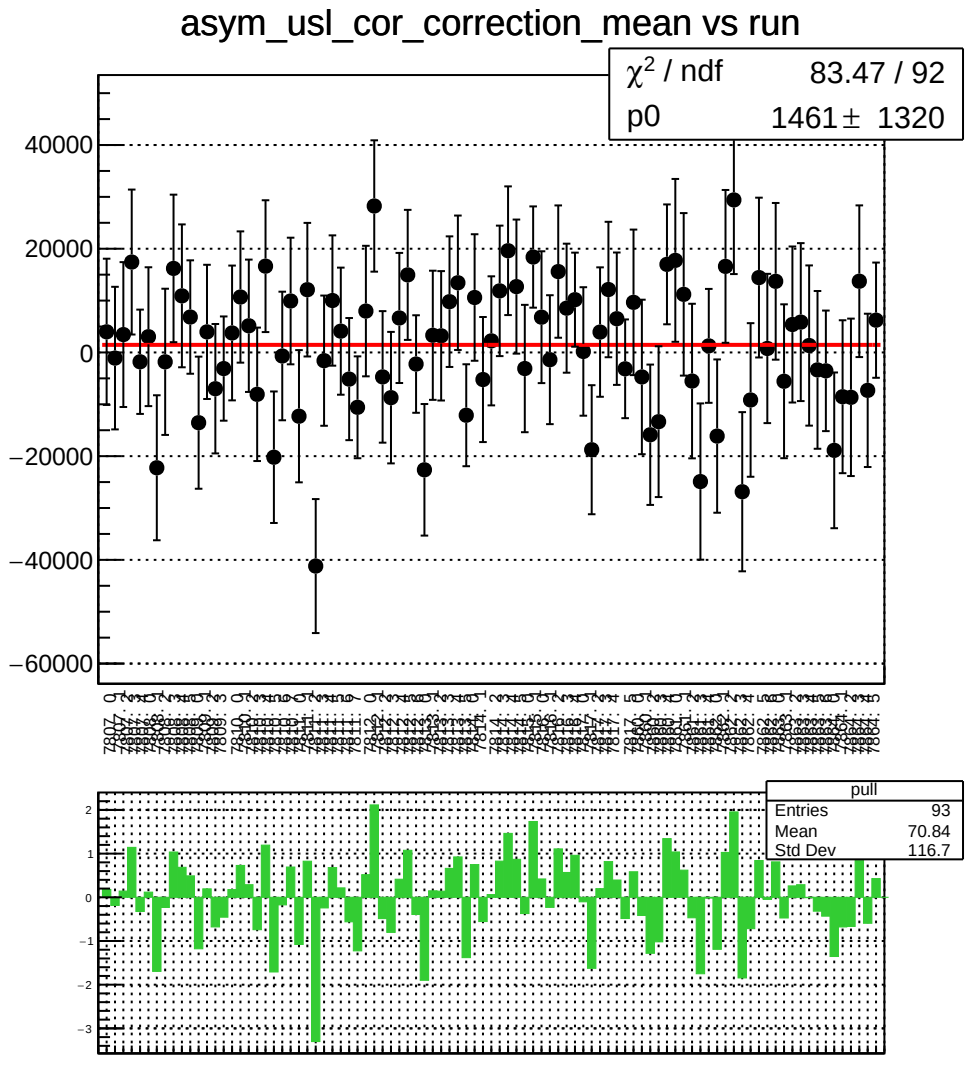

pull1D
Entries 93
Mean −0.00413
Std Dev 0.9474
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

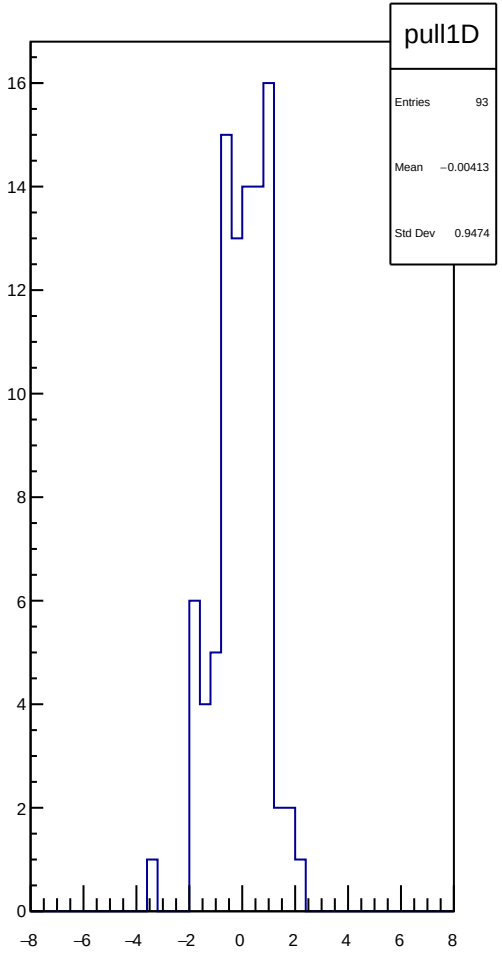

asym_usl_reg_correction_rms vs run
χ² / ndf 1.186e+04 / 92
p0 1266 ± 0.9337
1500
1450
1400
1350
1300
1250
1200
1150
1100

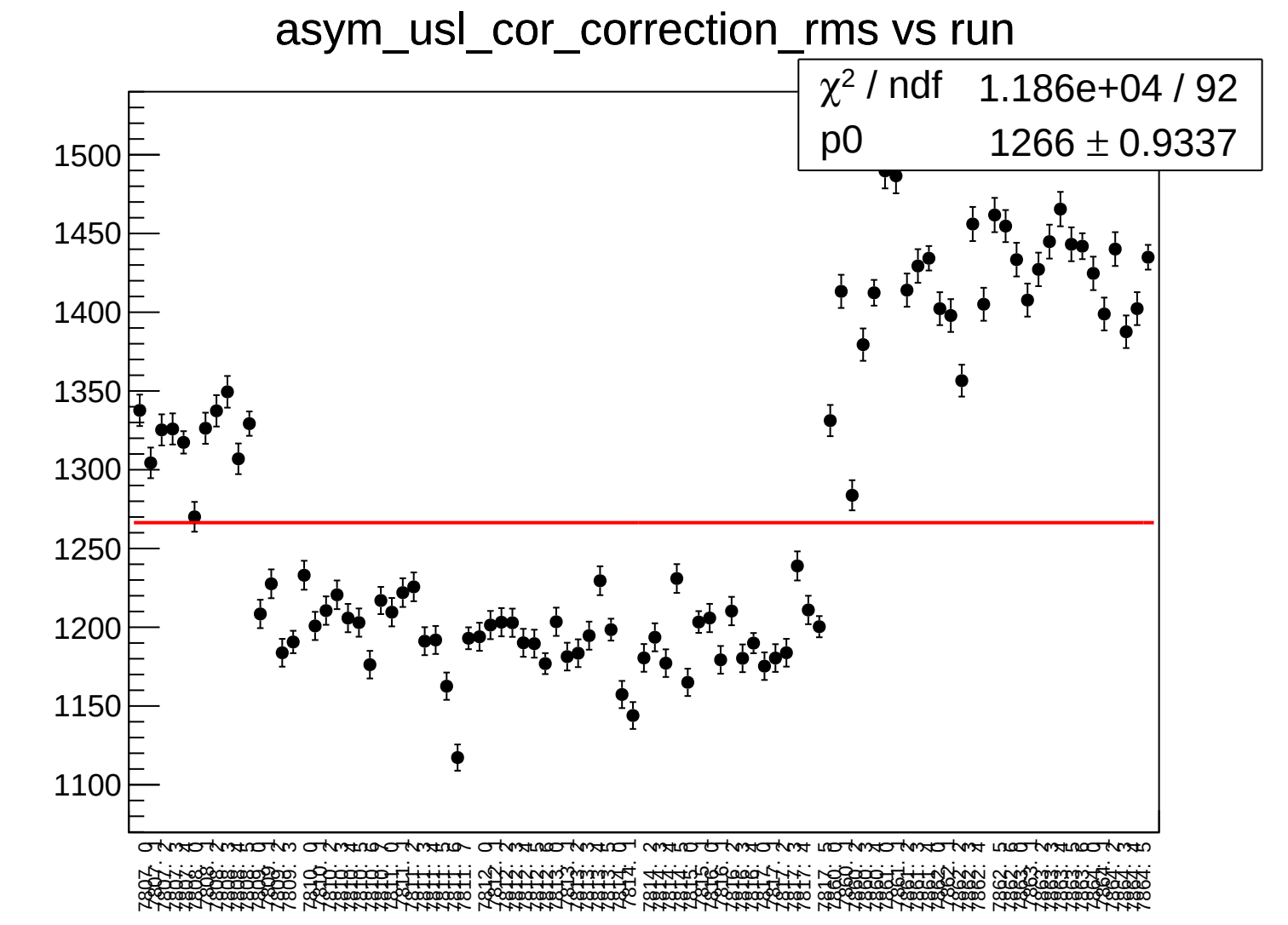

cor_asym_usl_mean vs run
χ² / ndf 86.92 / 92
p0 −3144 ± 1136
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
pull
Entries 93
Mean 366
Std Dev 0
2
1
0
−1
−2

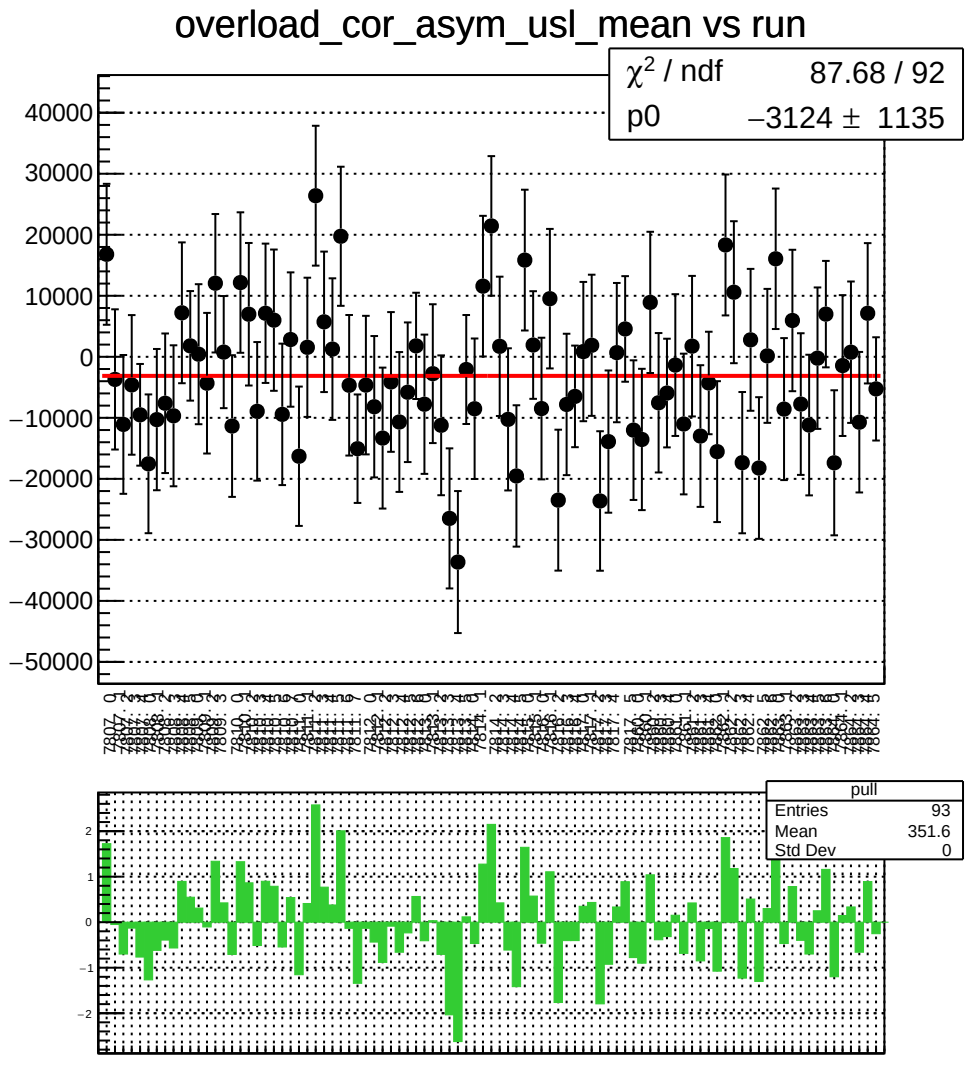

pull1D
Entries 93
Mean −0.004288
Std Dev 0.9668
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_usl_rms vs run
χ² / ndf 109.8 / 92
p0 1093 ± 0.8031
1140
1130
1120
1110
1100
1090
1080
1070

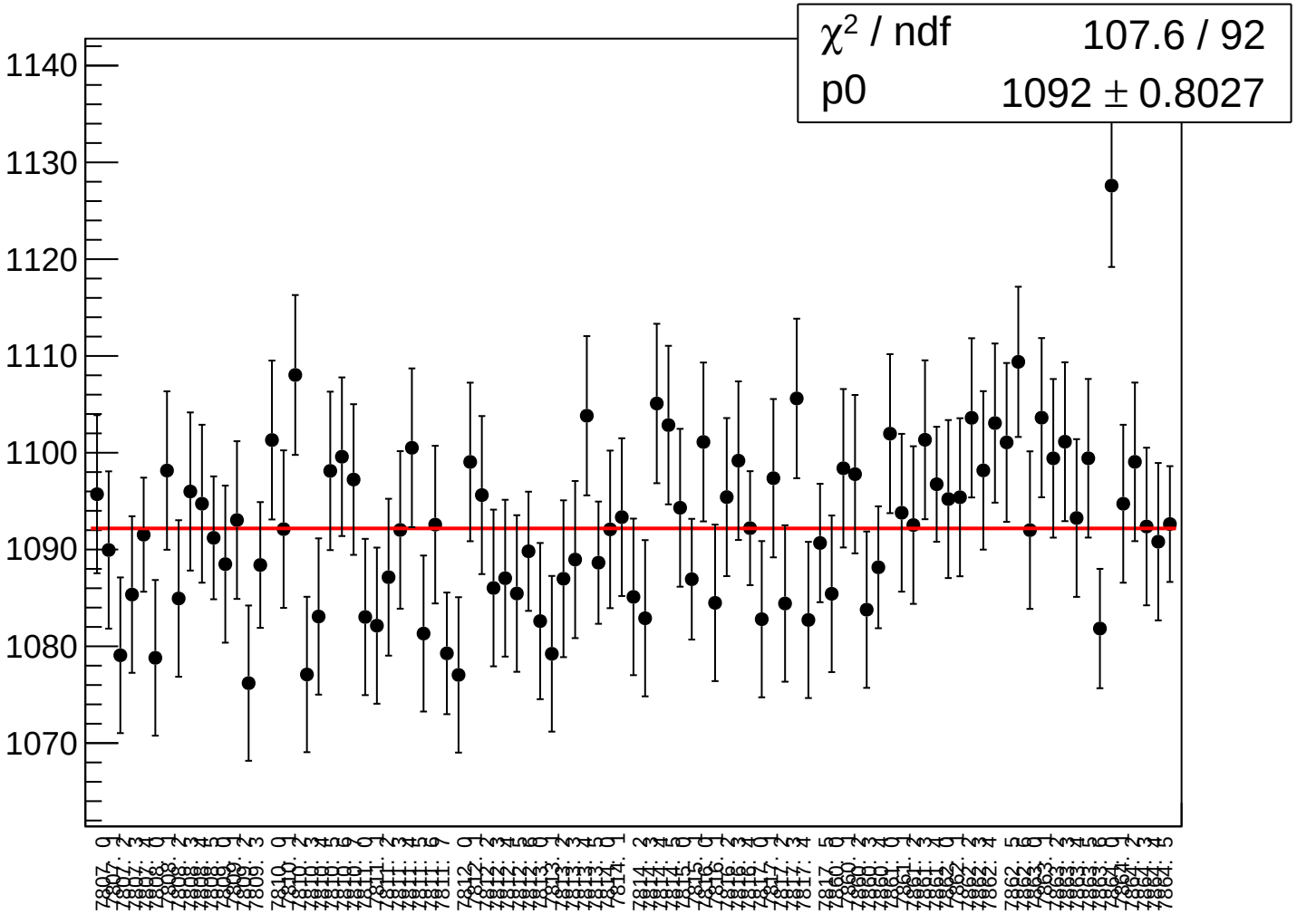

asym_usl_cor_correction_mean vs run
χ² / ndf 83.47 / 92
p0 1461 ± 1320
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 70.84
Std Dev 116.7
2
1
0
−1
−2
−3

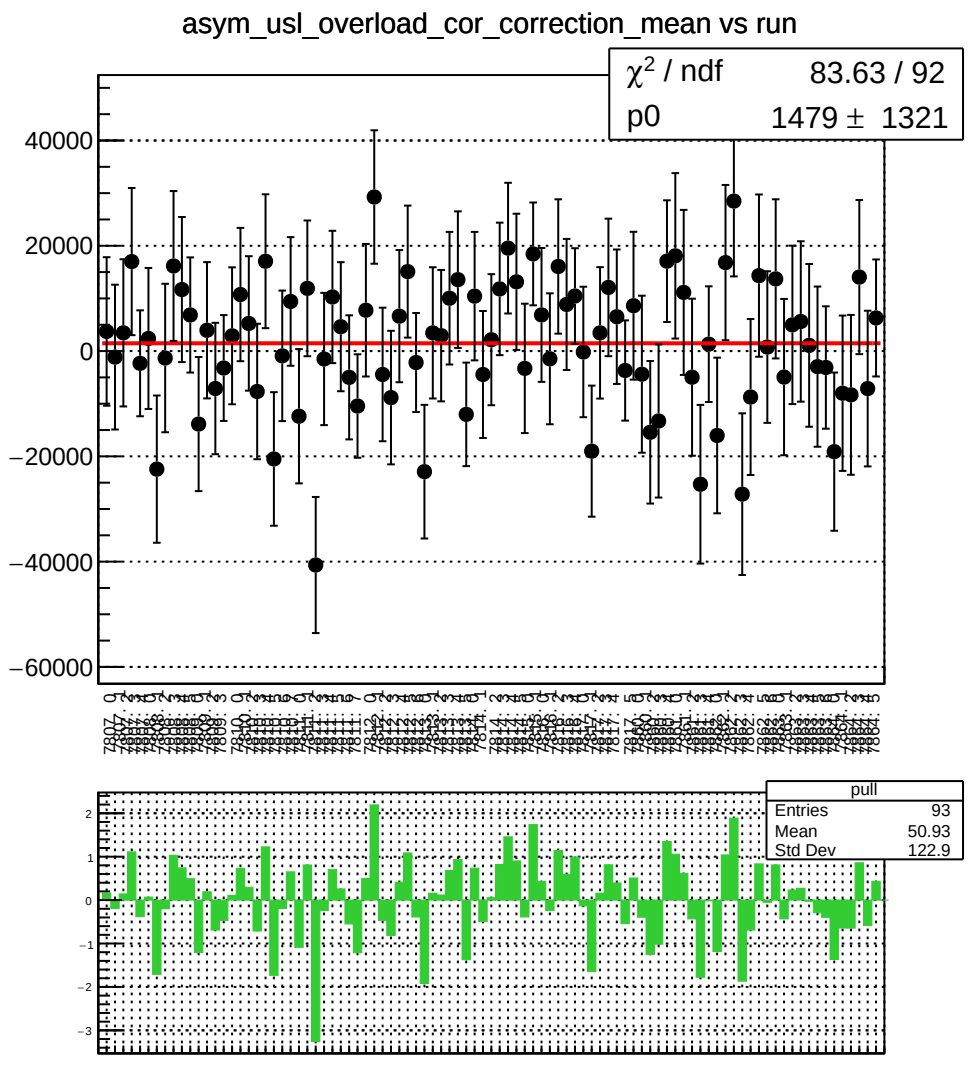

pull1D
Entries 93
Mean −0.00413
Std Dev 0.9474
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

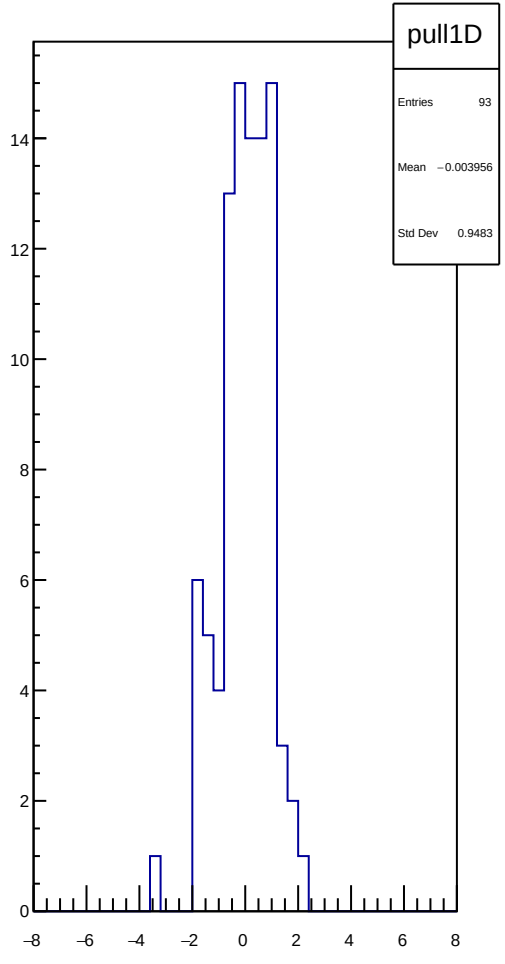

asym_usl_cor_correction_rms vs run
χ² / ndf 1.186e+04 / 92
p0 1266 ± 0.9337
1500
1450
1400
1350
1300
1250
1200
1150
1100

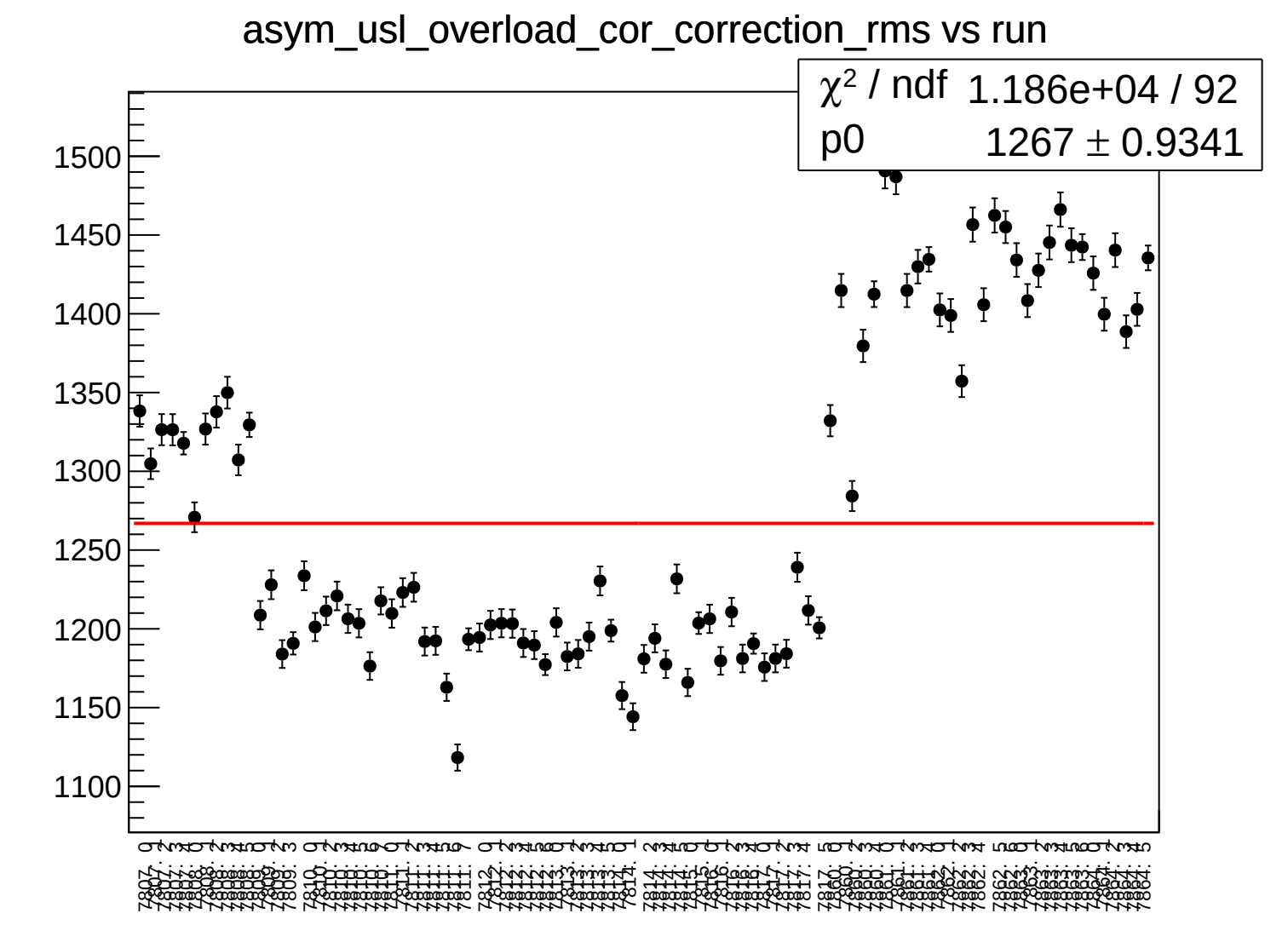

overload_cor_asym_usl_mean vs run
χ² / ndf 87.68 / 92
p0 −3124 ± 1135
pull
Entries 93
Mean 351.6
Std Dev 0
pull1D
Entries 93
Mean −0.004149
Std Dev 0.971

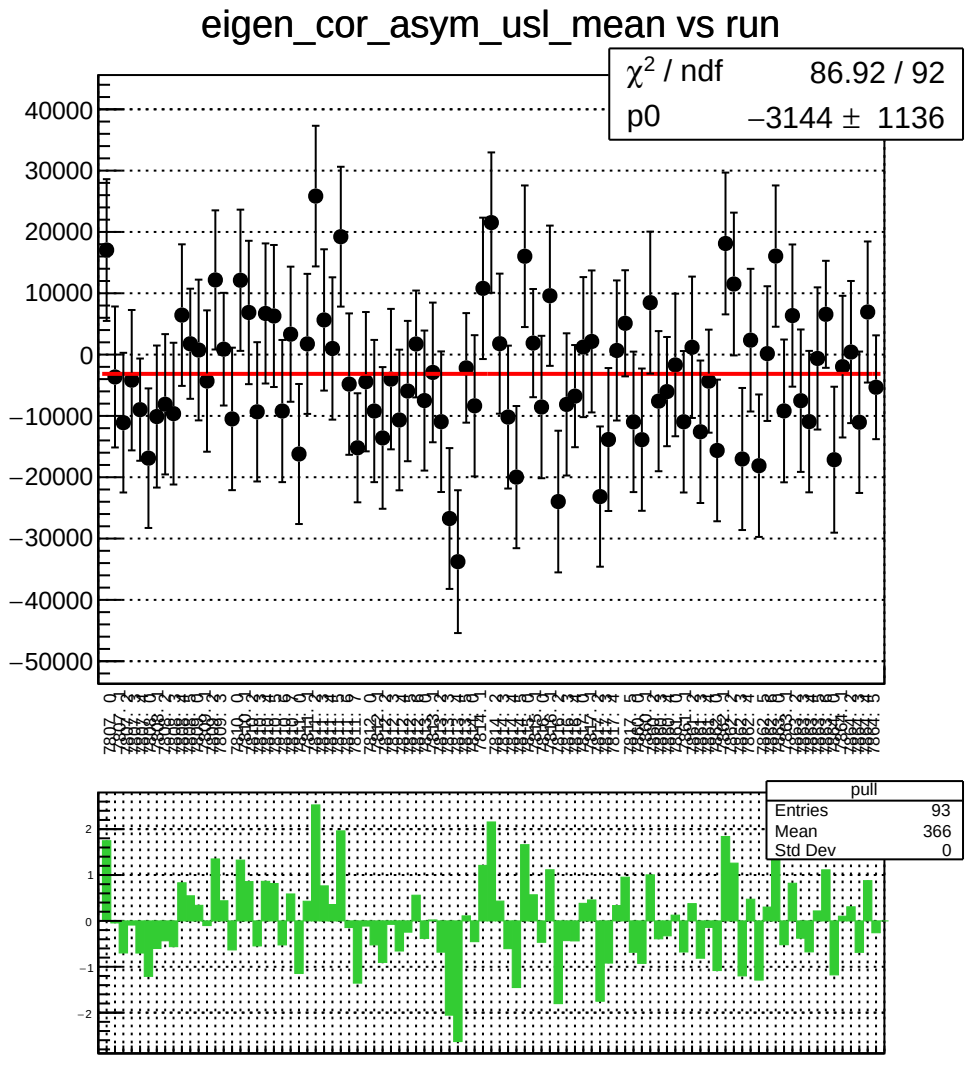
overload_cor_asym_usl_rms vs run

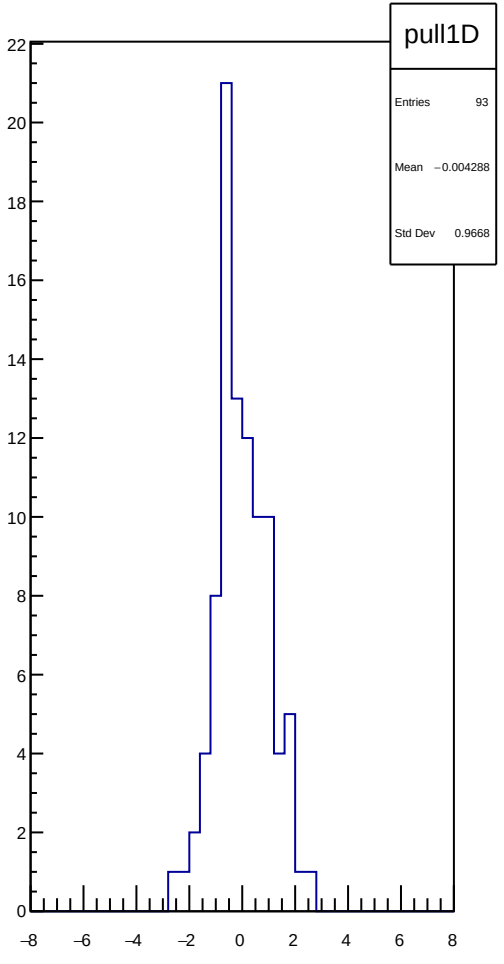


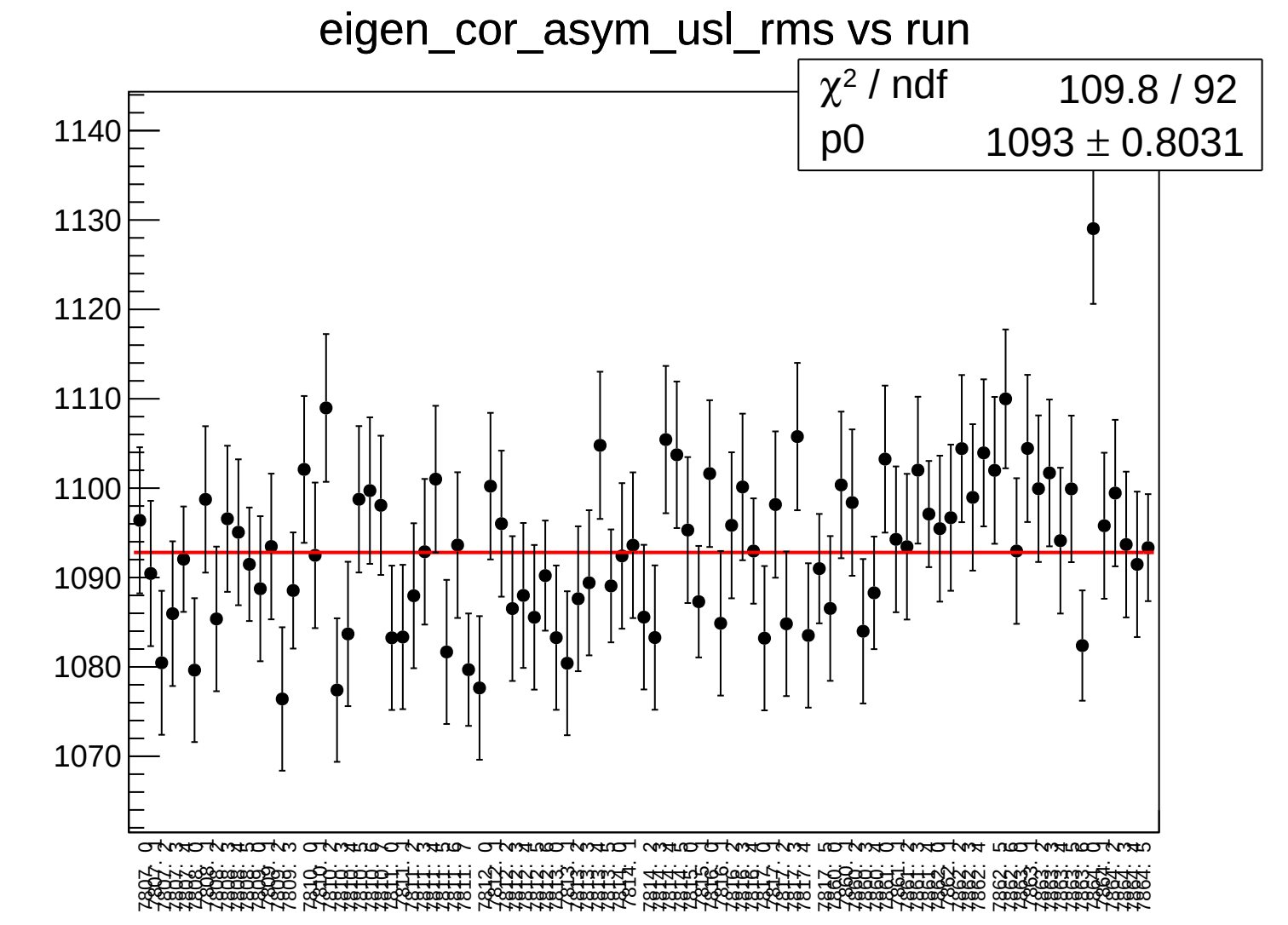

asym_usl_overload_cor_correction_mean vs run
χ² / ndf 83.63 / 92
p0 1479 ± 1321
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 50.93
Std Dev 122.9
2
1
0
−1
−2
−3

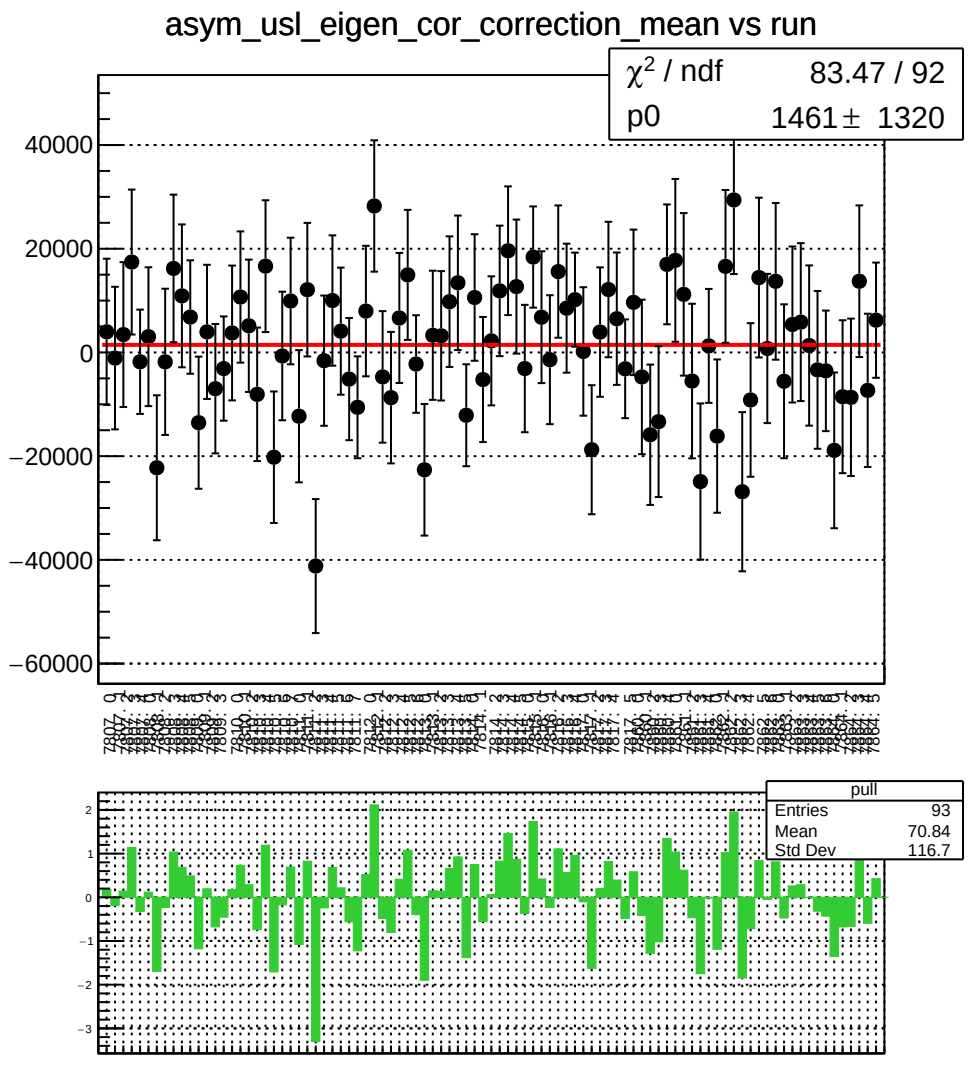

pull1D
Entries 93
Mean −0.003956
Std Dev 0.9483
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

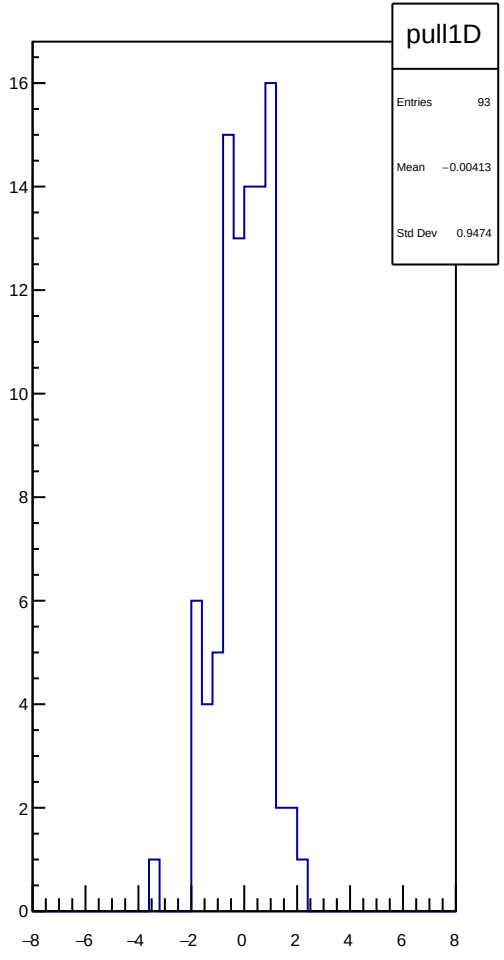

asym_usl_overload_cor_correction_rms vs run
χ² / ndf 1.186e+04 / 92
p0 1267 ± 0.9341
1500
1450
1400
1350
1300
1250
1200
1150
1100

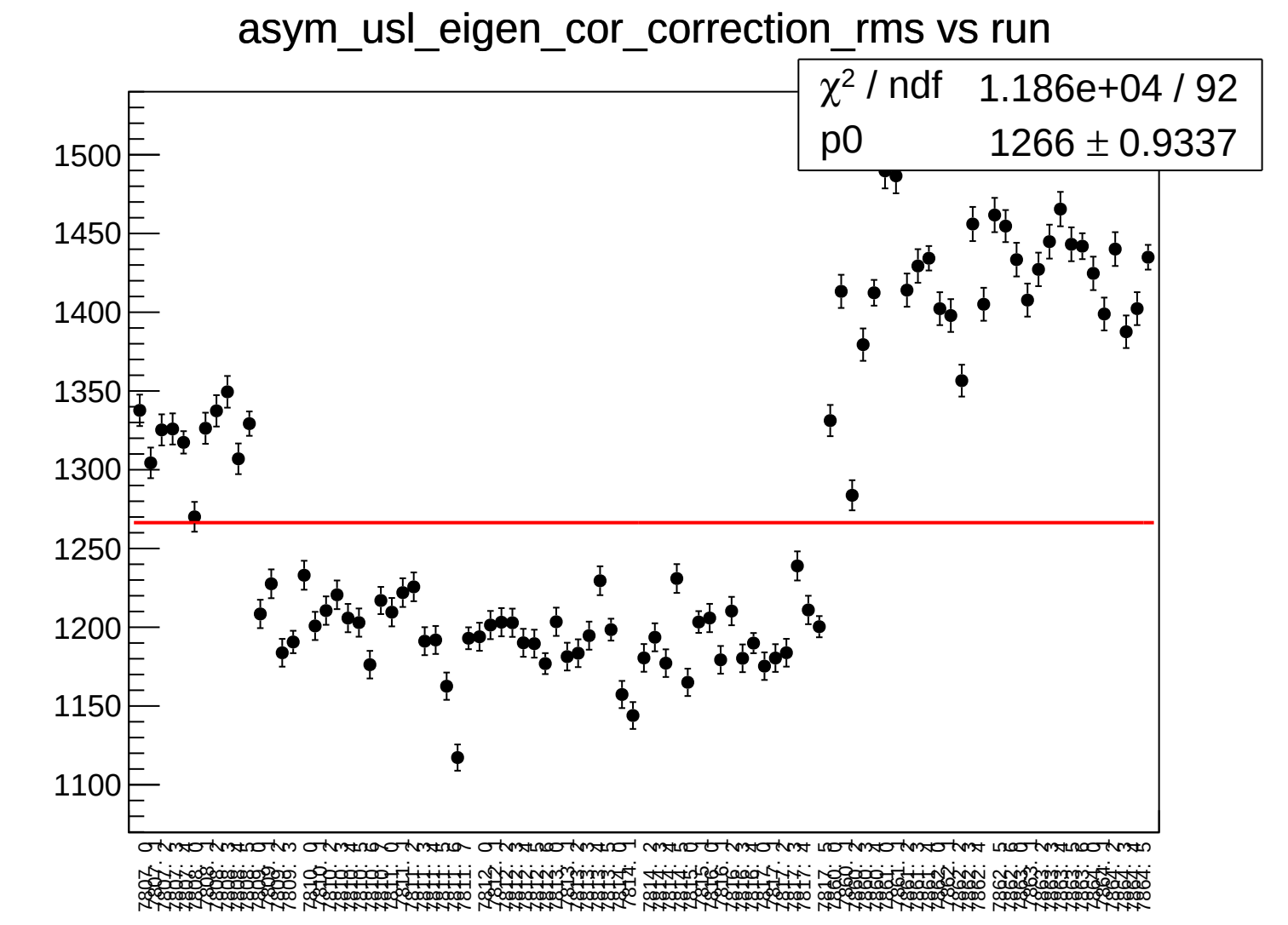

eigen_cor_asym_usl_mean vs run
χ² / ndf 86.92 / 92
p0 −3144 ± 1136
pull
Entries 93
Mean 366
Std Dev 0

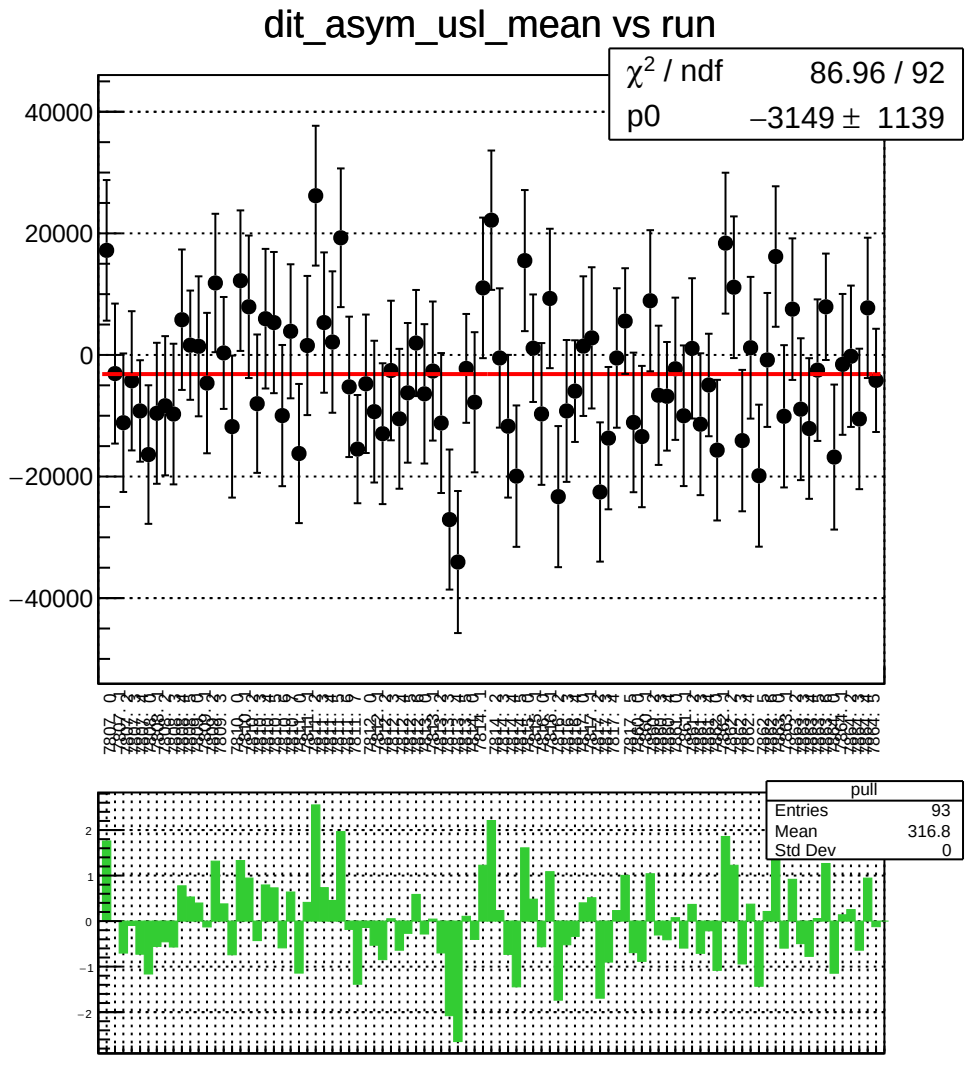

pull1D
Entries 93
Mean −0.004288
Std Dev 0.9668

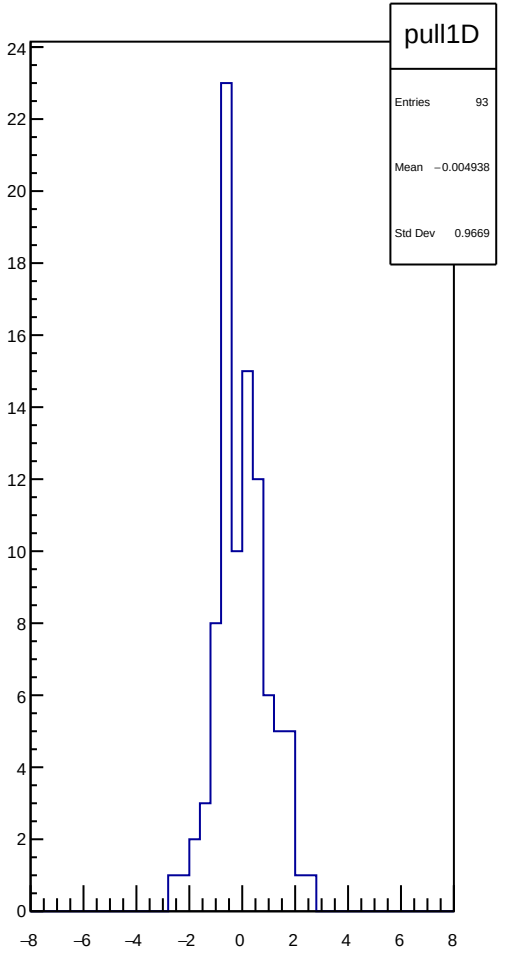

eigen_cor_asym_usl_rms vs run
χ² / ndf 109.8 / 92
p0 1093 ± 0.8031
1140
1130
1120
1110
1100
1090
1080
1070

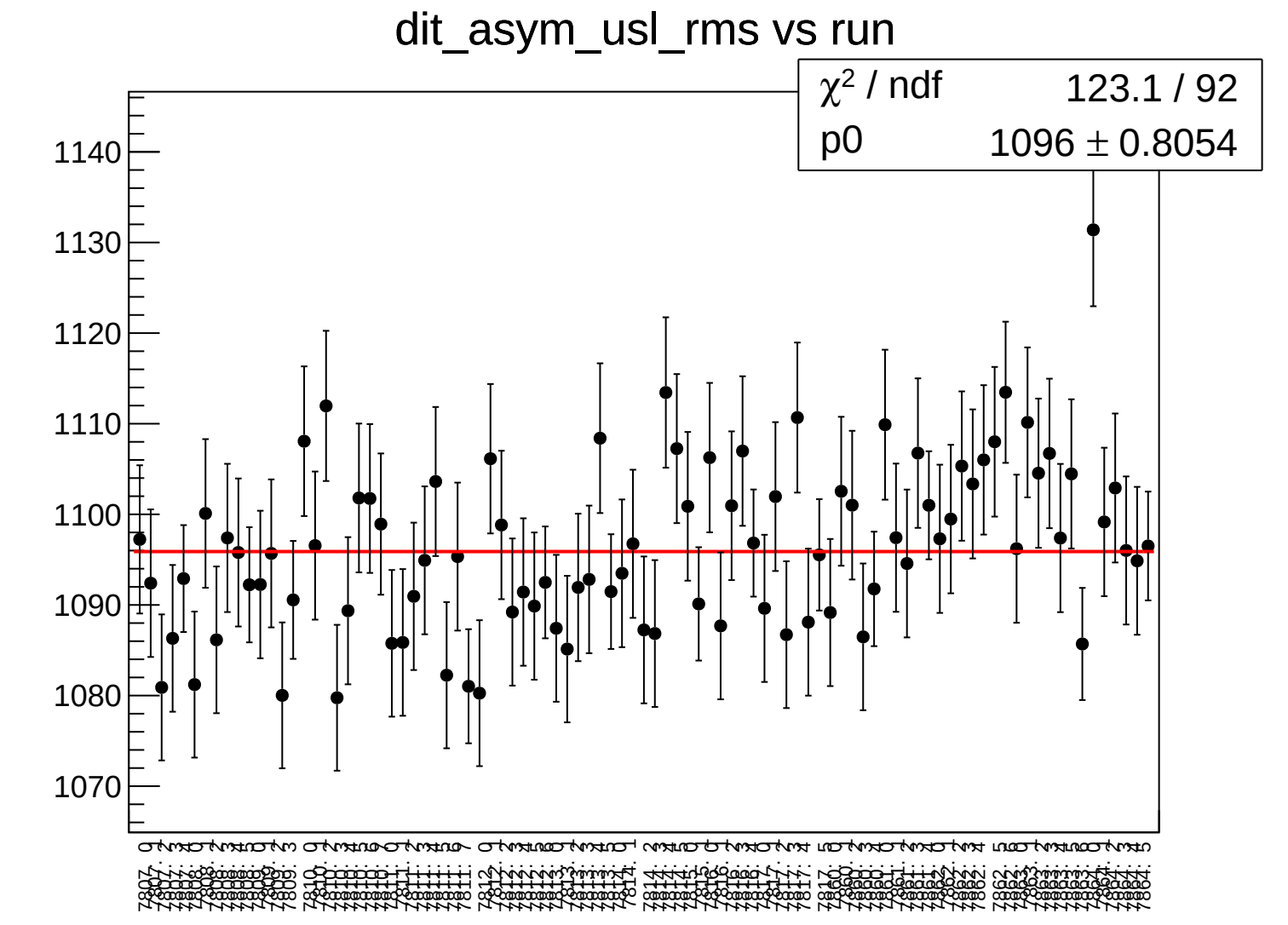

asym_usl_eigen_cor_correction_mean vs run
χ² / ndf 83.47 / 92
p0 1461 ± 1320
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 70.84
Std Dev 116.7
2
1
0
−1
−2
−3

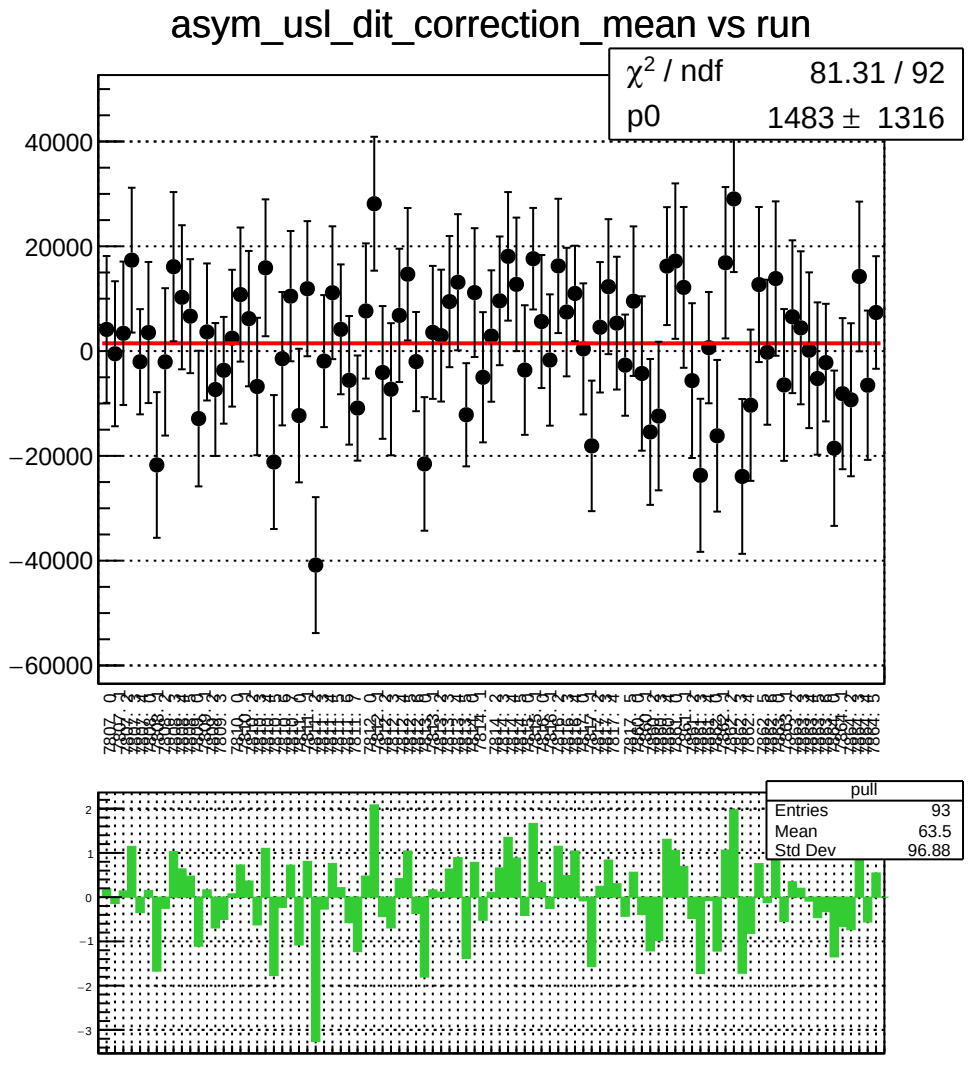

pull1D
Entries 93
Mean −0.00413
Std Dev 0.9474
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

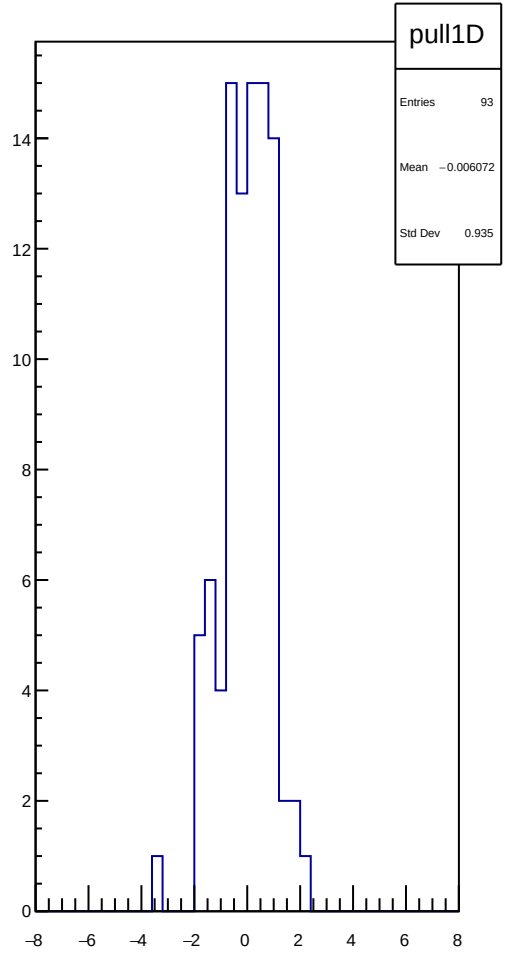

asym_usl_eigen_cor_correction_rms vs run
χ² / ndf 1.186e+04 / 92
p0 1266 ± 0.9337
1500
1450
1400
1350
1300
1250
1200
1150
1100

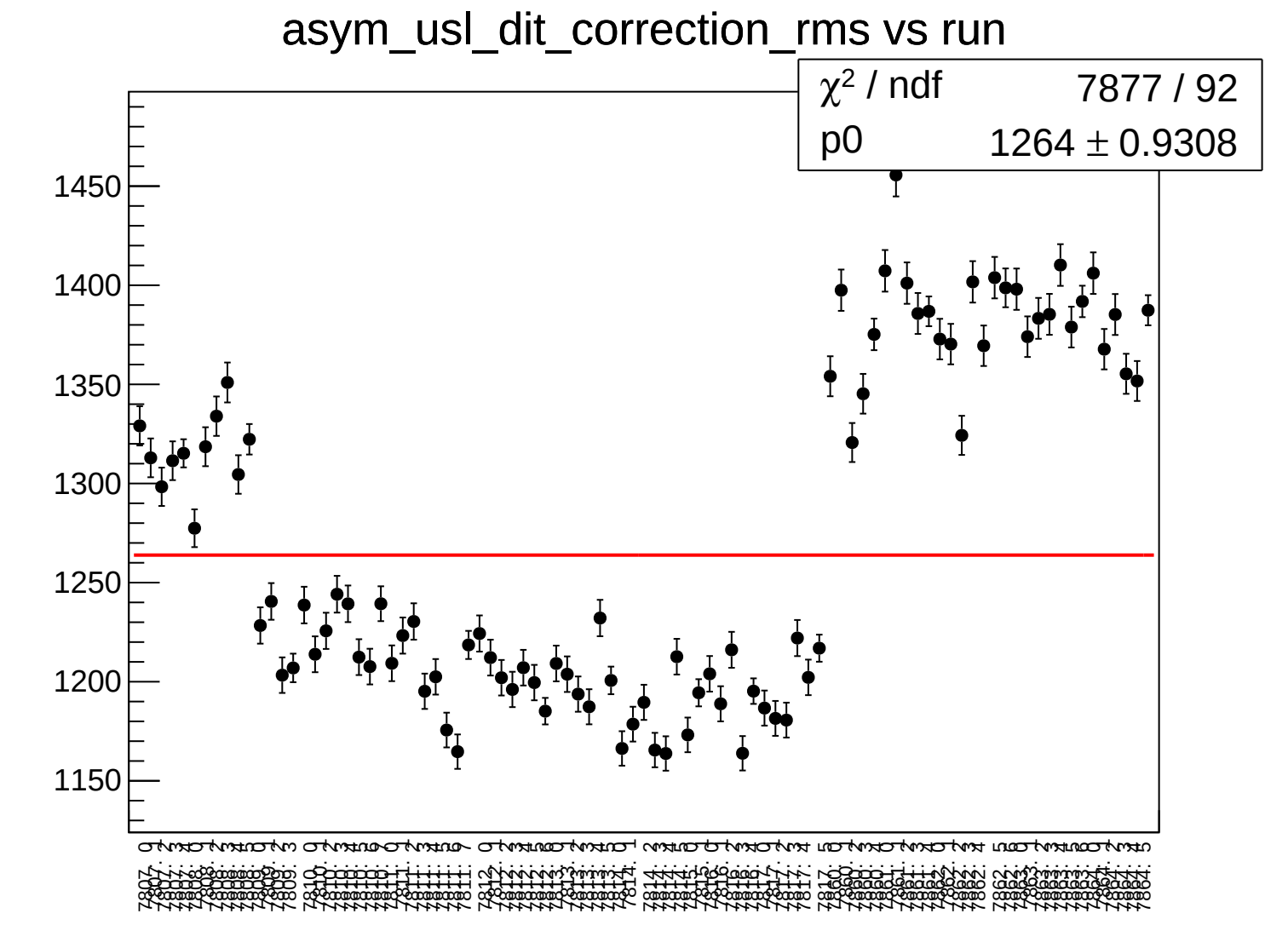

dit_asym_usl_mean vs run
χ² / ndf 86.96 / 92
p0 −3149 ± 1139
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 316.8
Std Dev 0
2
1
0
−1
−2

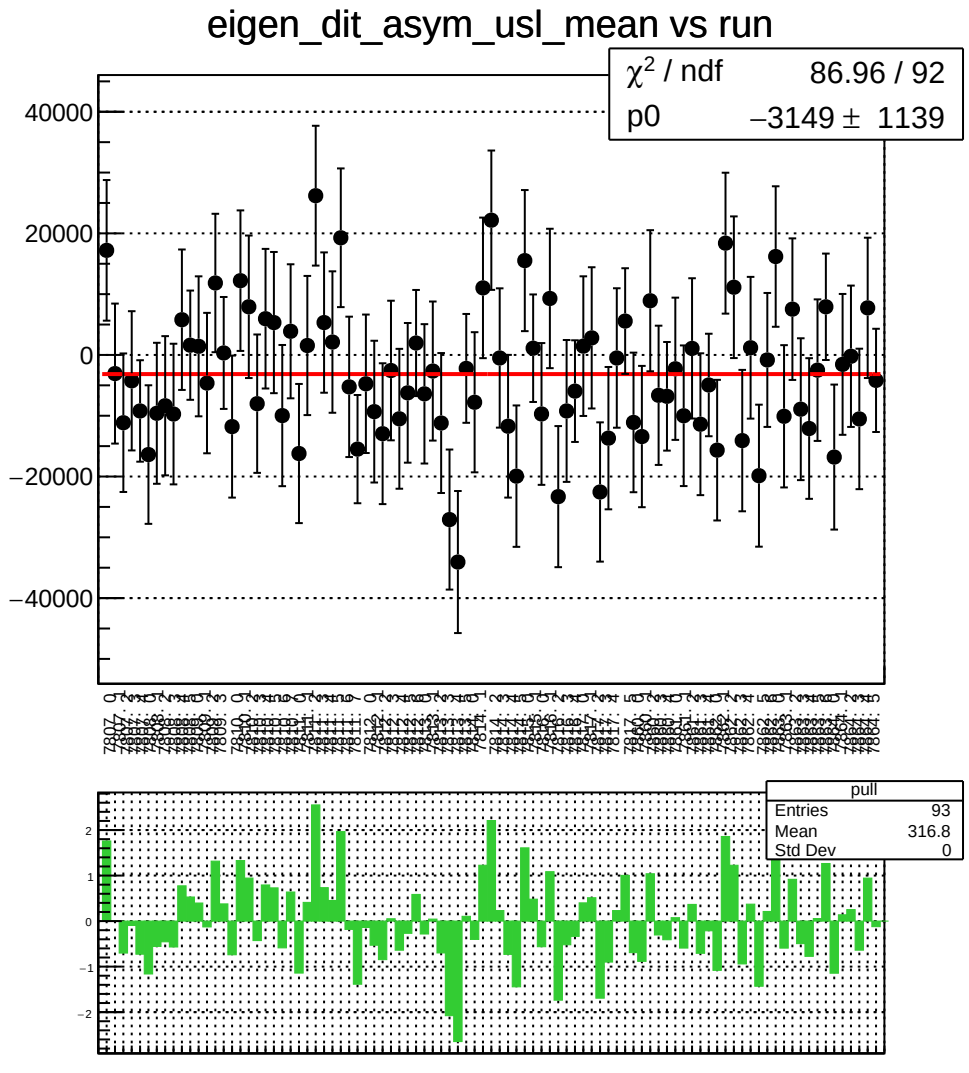

pull1D
Entries 93
Mean −0.004938
Std Dev 0.9669
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

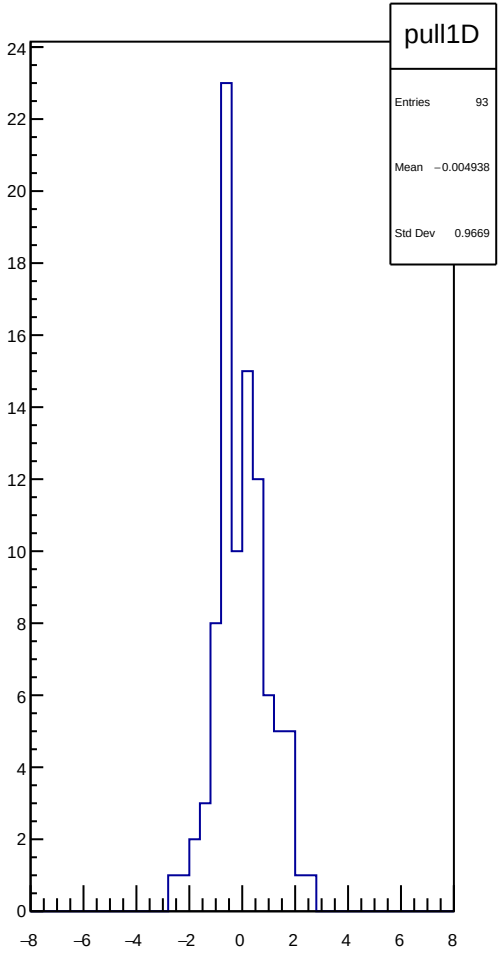

dit_asym_usl_rms vs run
χ² / ndf 123.1 / 92
p0 1096 ± 0.8054
1140
1130
1120
1110
1100
1090
1080
1070

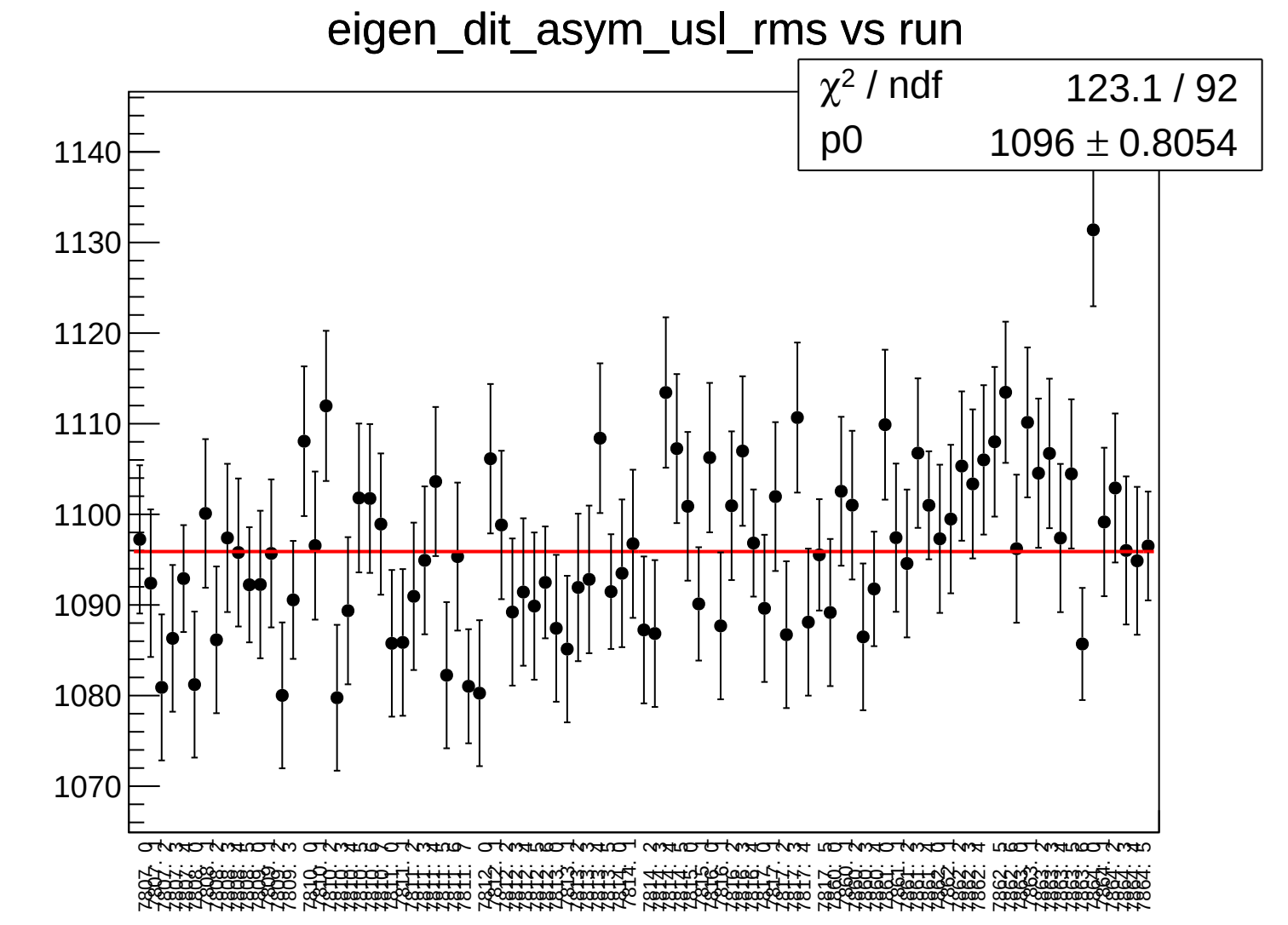

asym_usl_dit_correction_mean vs run
χ² / ndf 81.31 / 92
p0 1483 ± 1316
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 63.5
Std Dev 96.88
2
1
0
−1
−2
−3

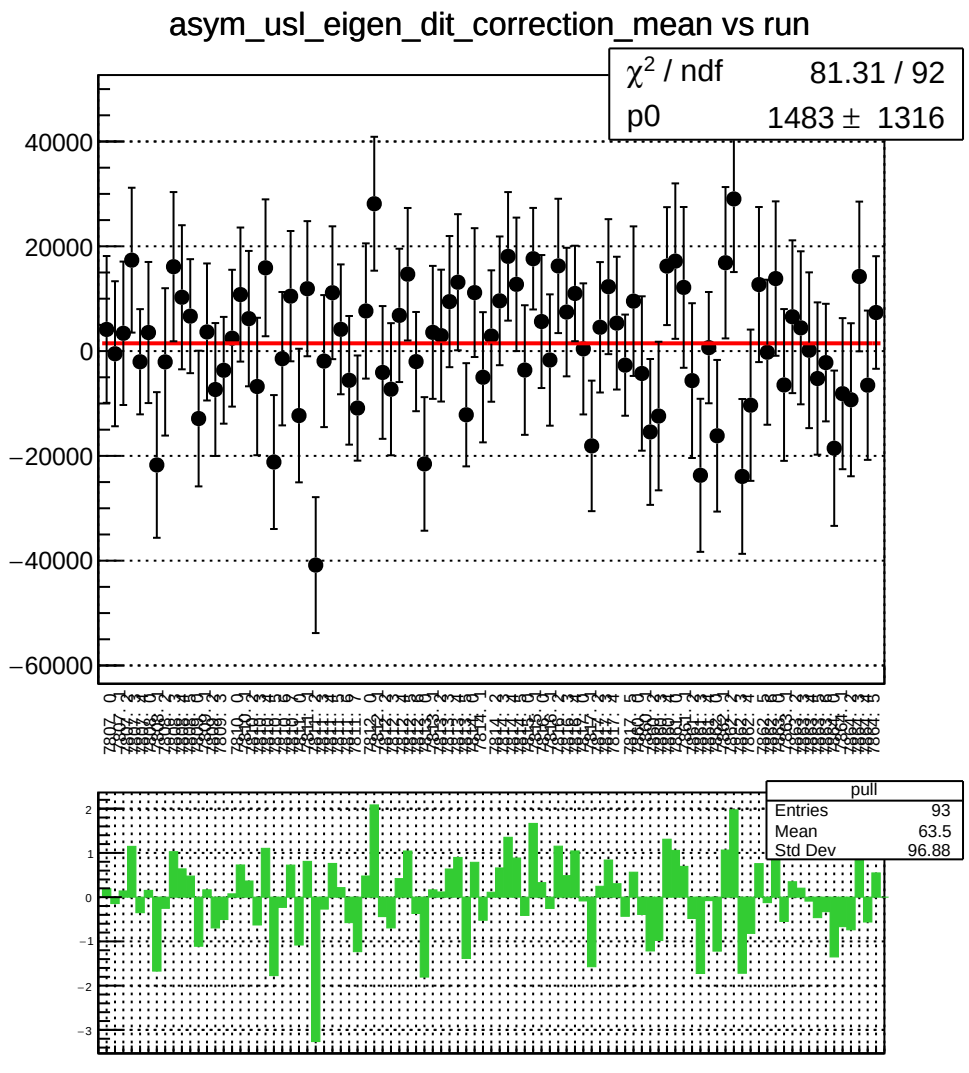

pull1D
Entries 93
Mean −0.006072
Std Dev 0.935
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

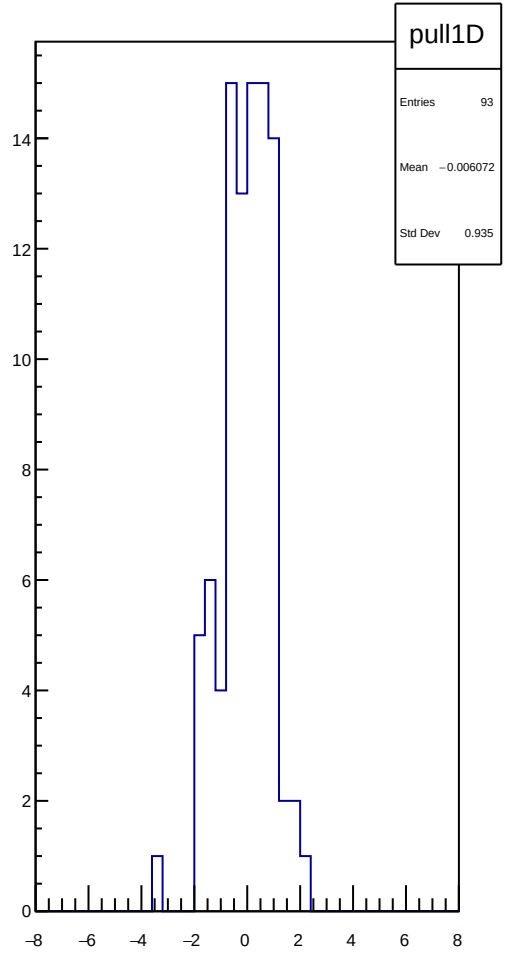

asym_usl_dit_correction_rms vs run
χ² / ndf 7877 / 92
p0 1264 ± 0.9308
1450
1400
1350
1300
1250
1200
1150

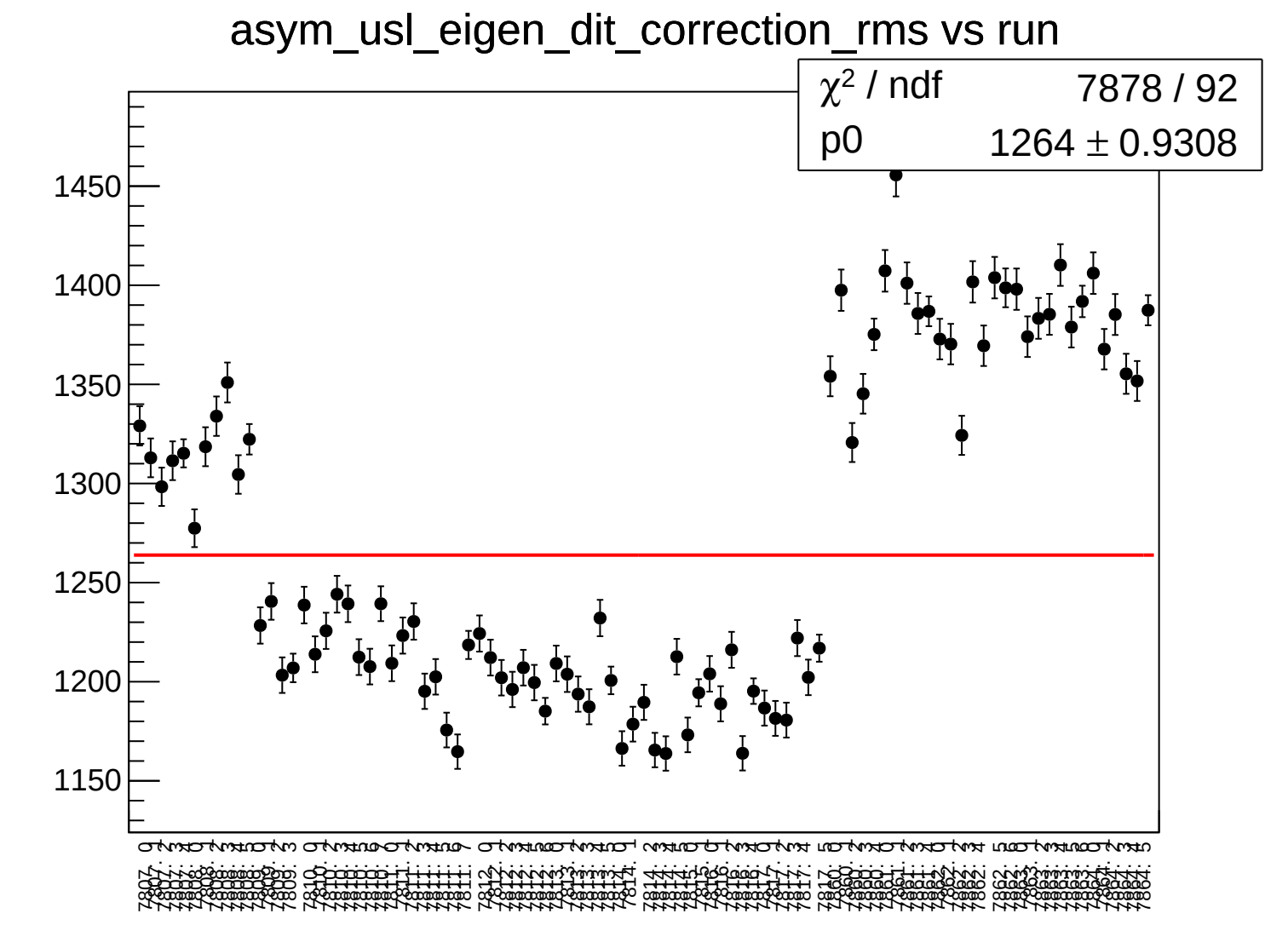

eigen_dit_asym_usl_mean vs run
χ² / ndf 86.96 / 92
p0 −3149 ± 1139
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 316.8
Std Dev 0
2
1
0
−1
−2

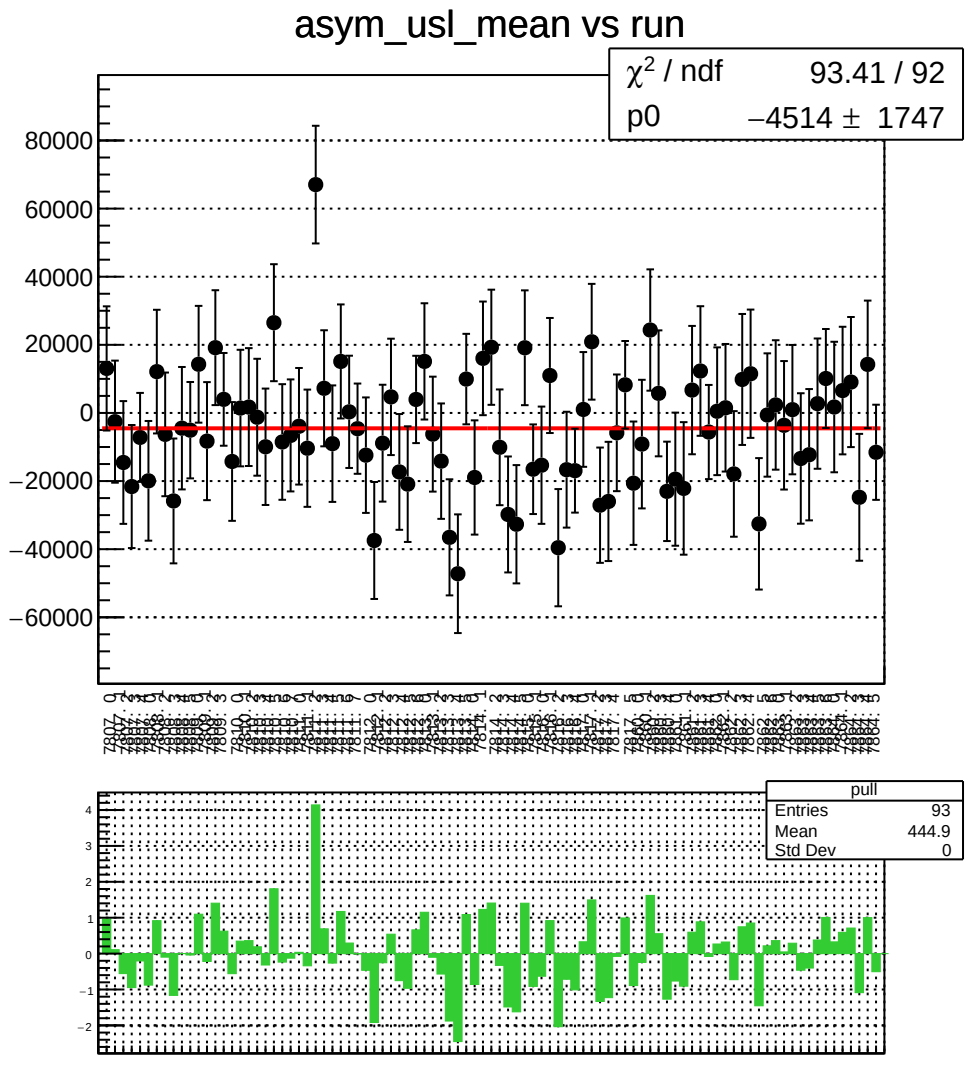

pull1D
Entries 93
Mean −0.004938
Std Dev 0.9669
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

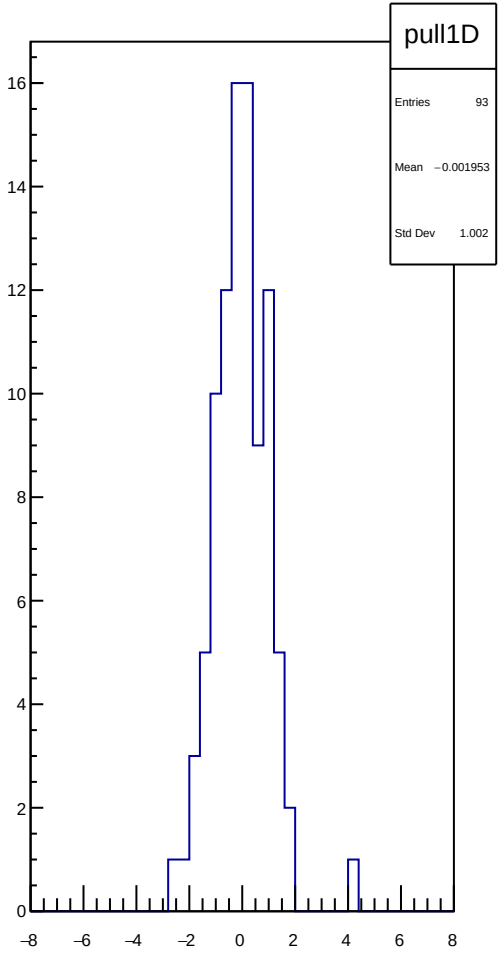

eigen_dit_asym_usl_rms vs run
χ^2 / ndf 123.1 / 92
p0 1096 ± 0.8054
1140
1130
1120
1110
1100
1090
1080
1070

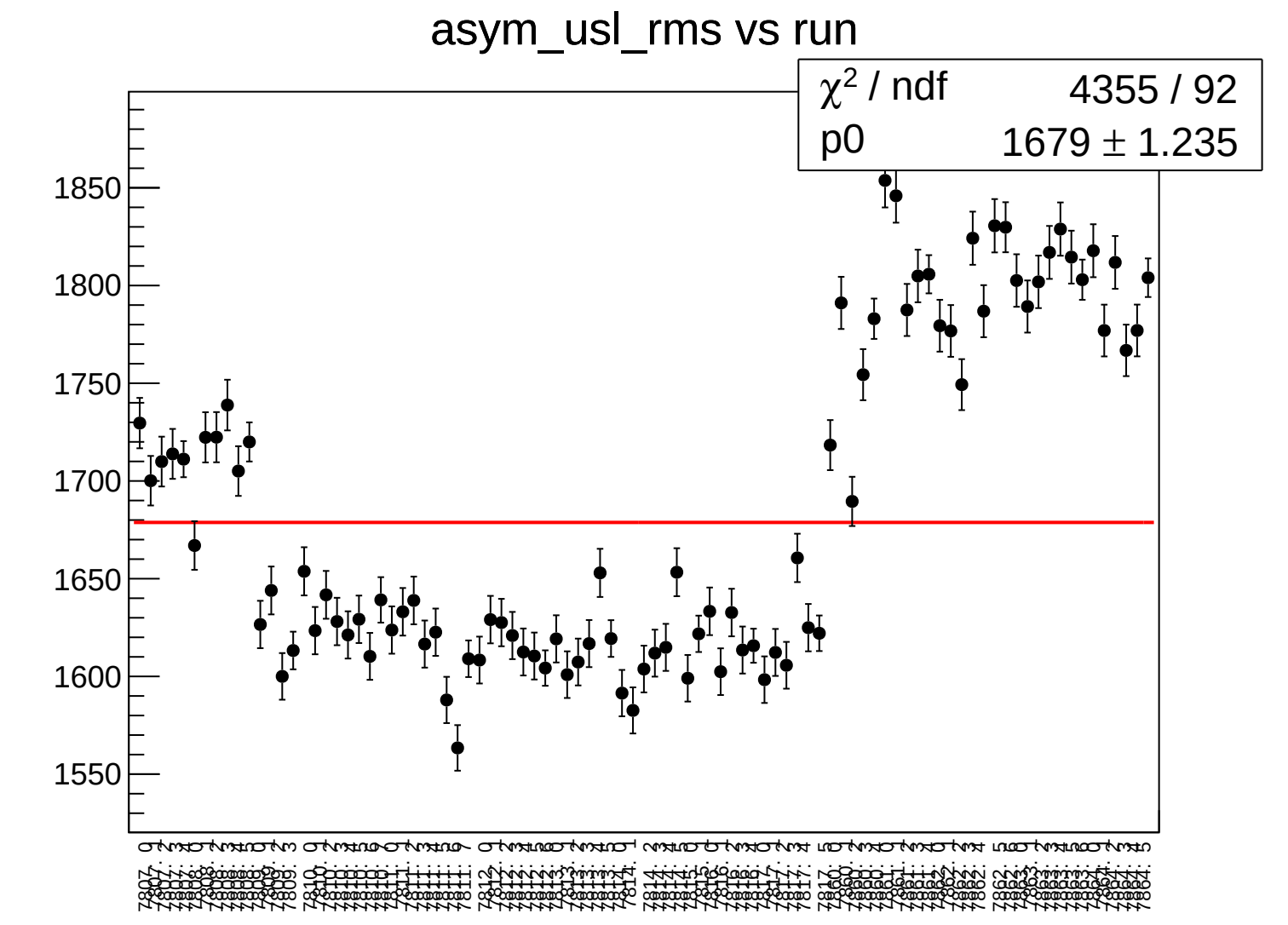

asym_usl_eigen_dit_correction_mean vs run
χ² / ndf 81.31 / 92
p0 1483 ± 1316
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 63.5
Std Dev 96.88
2
1
0
−1
−2
−3

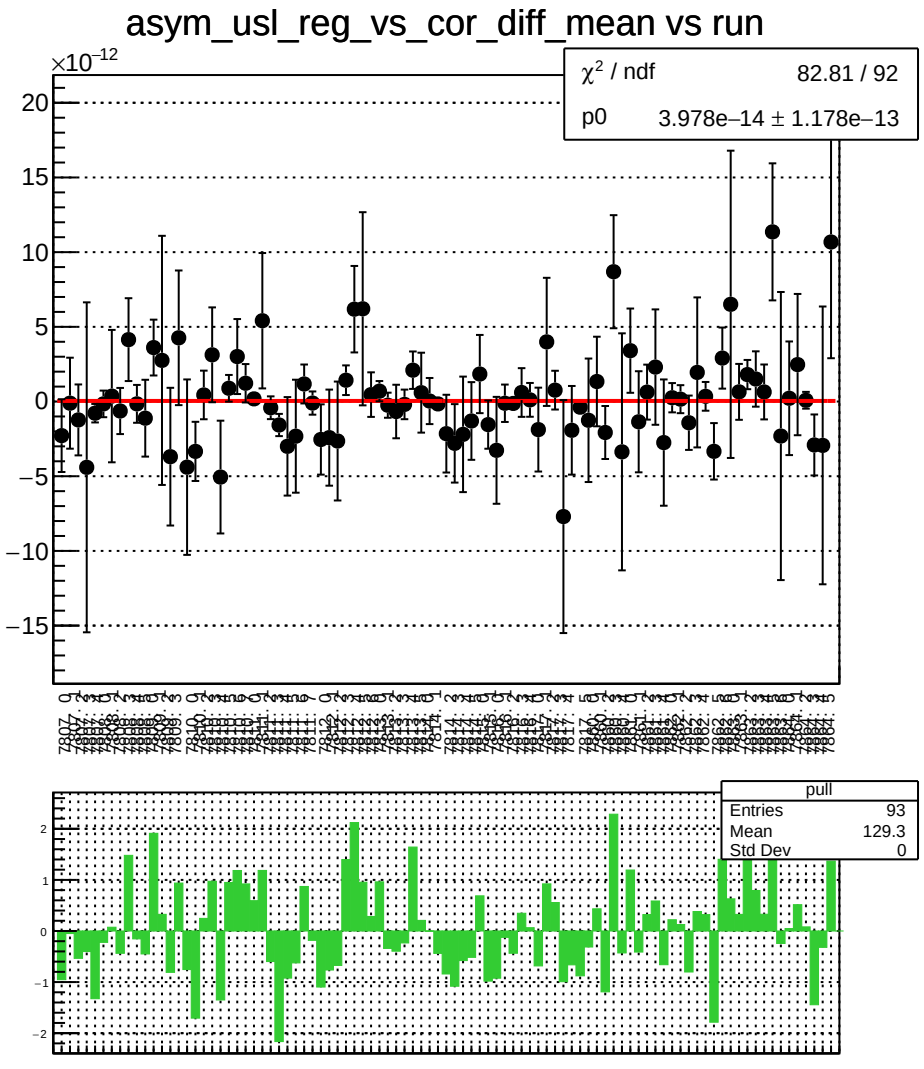

pull1D
Entries 93
Mean −0.006072
Std Dev 0.935
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

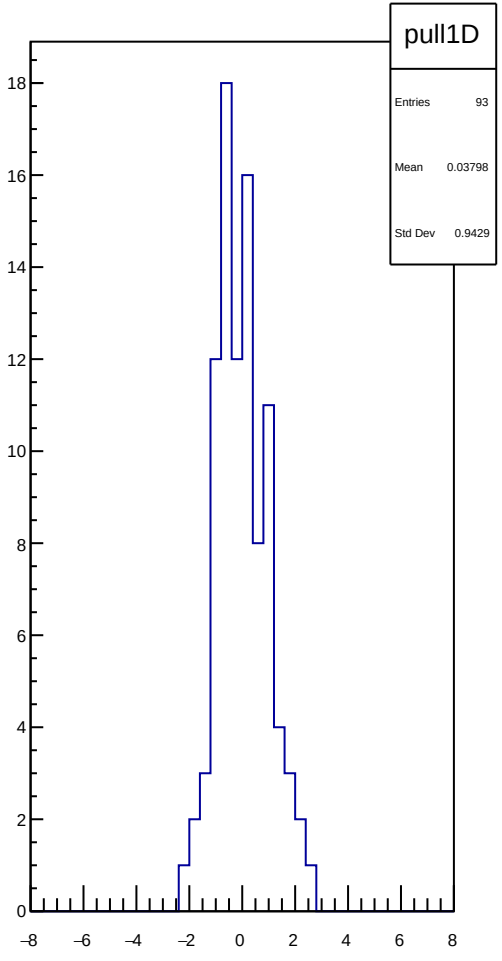

asym_usl_eigen_dit_correction_rms vs run
χ² / ndf 7878 / 92
p0 1264 ± 0.9308
1450
1400
1350
1300
1250
1200
1150

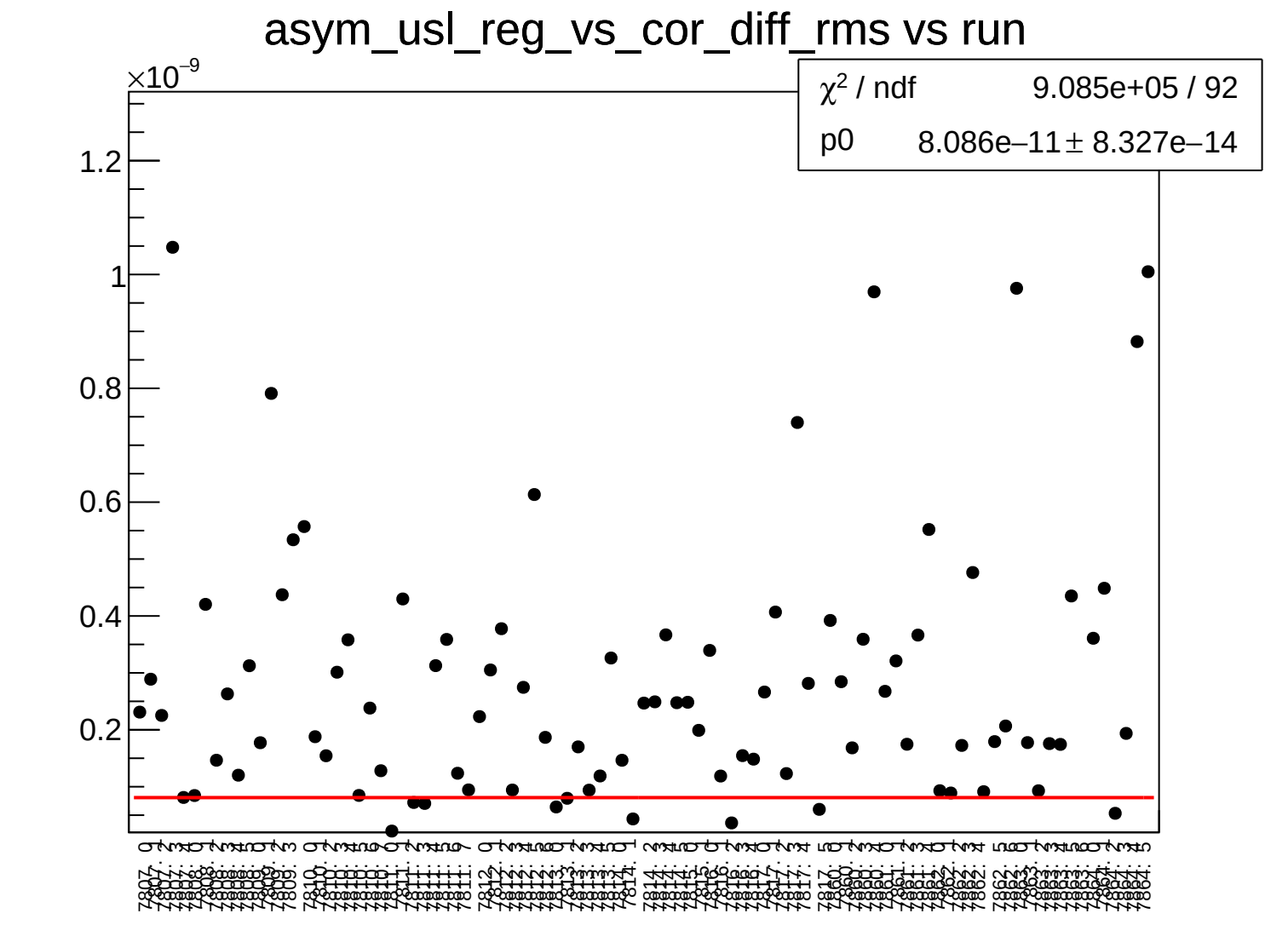

asym_usl_mean vs run
χ² / ndf 93.41 / 92
p0 −4514 ± 1747
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 444.9
Std Dev 0
4
3
2
1
0
−1
−2

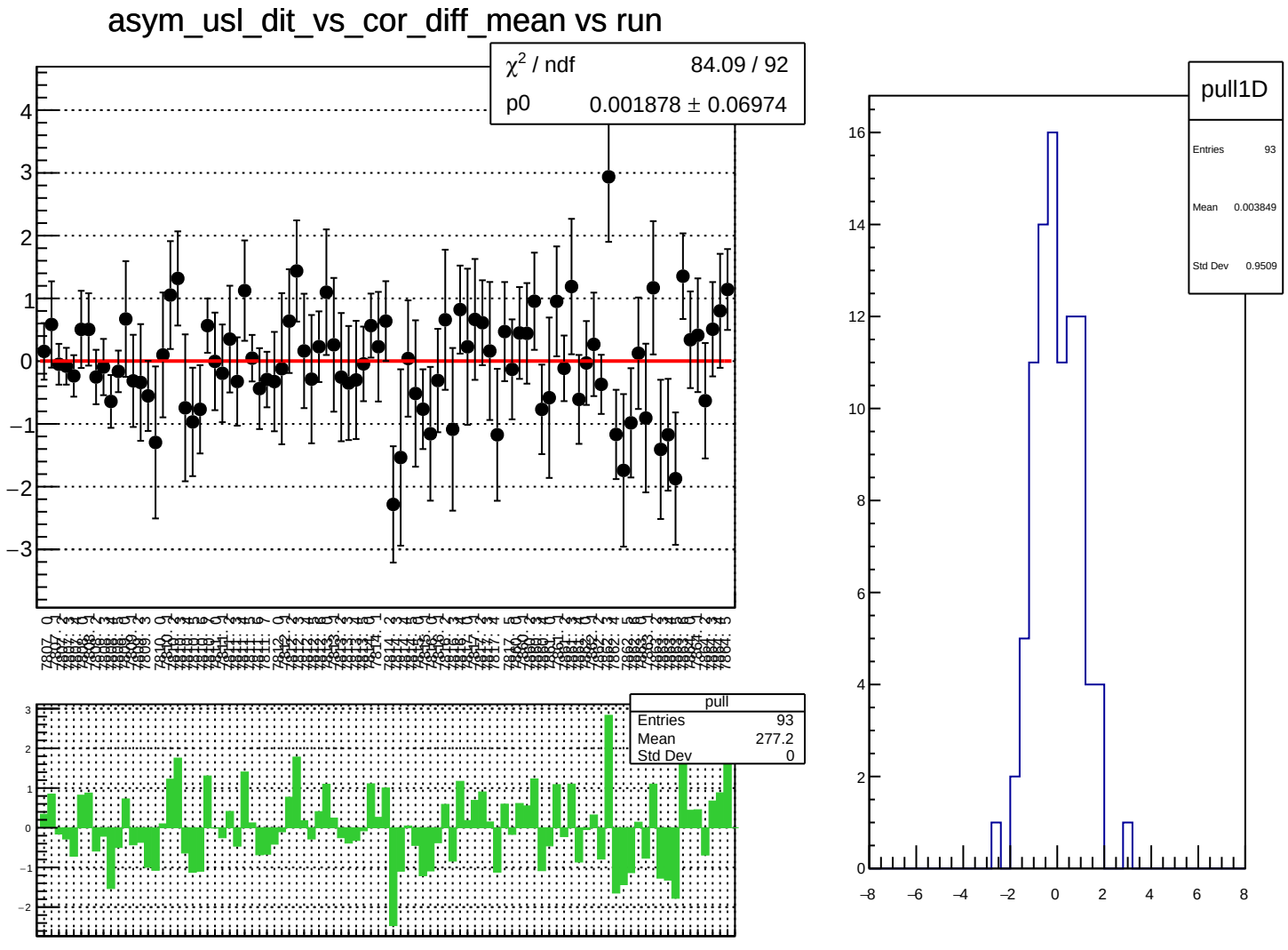

pull1D
Entries 93
Mean −0.001953
Std Dev 1.002
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

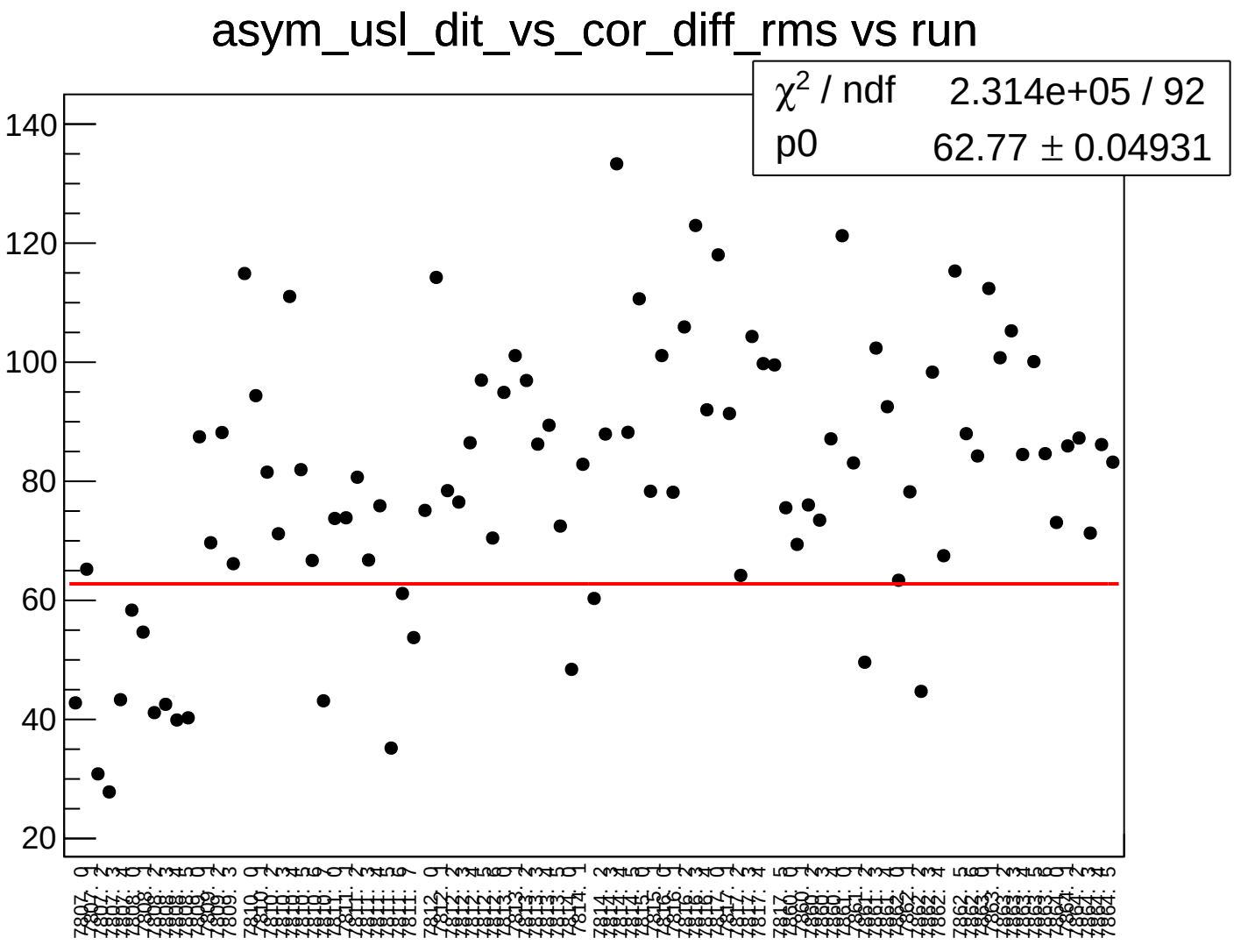

asym_usl_rms vs run
χ² / ndf 4355 / 92
p0 1679 ± 1.235
1850
1800
1750
1700
1650
1600
1550

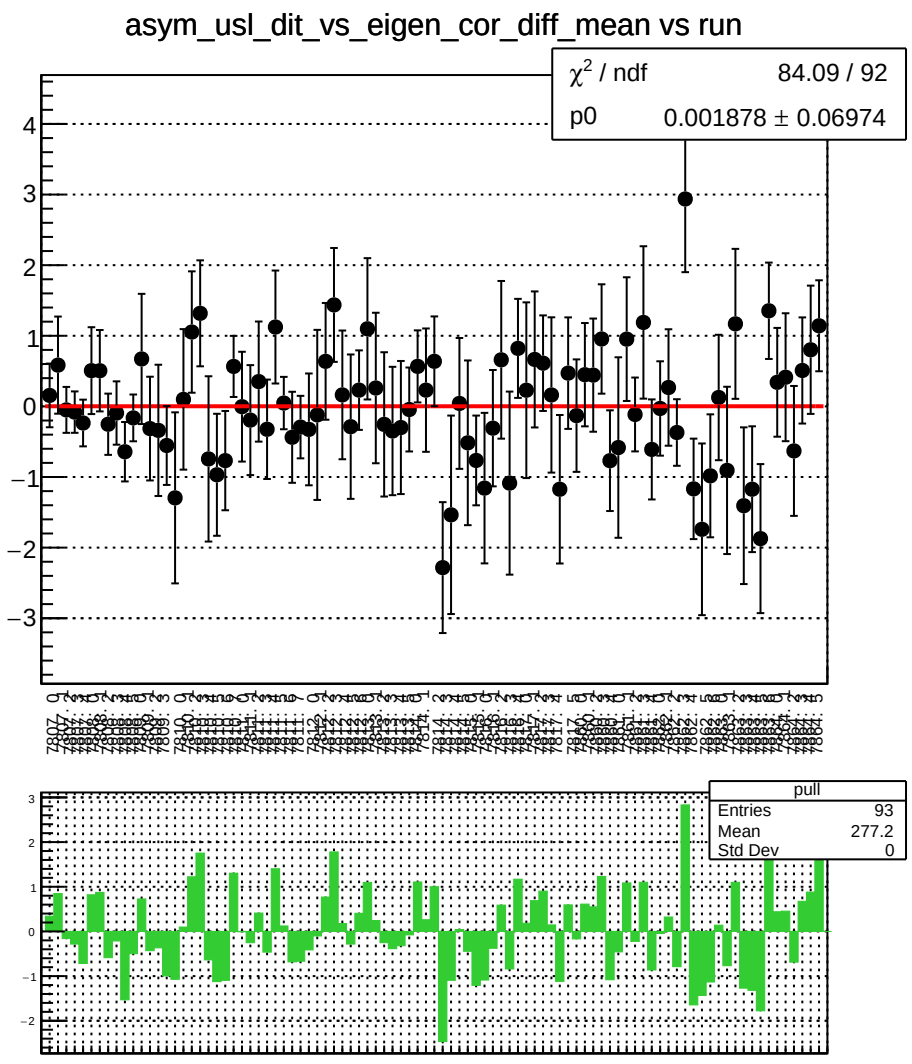

asym_usl_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.81 / 92
p0 3.978e−14 ± 1.178e−13
pull
Entries 93
Mean 129.3
Std Dev 0

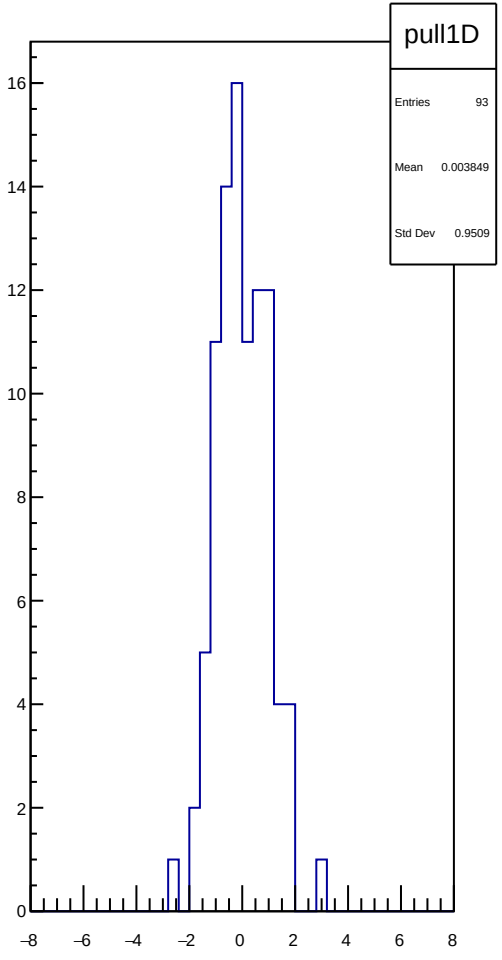

pull1D
Entries 93
Mean 0.03798
Std Dev 0.9429

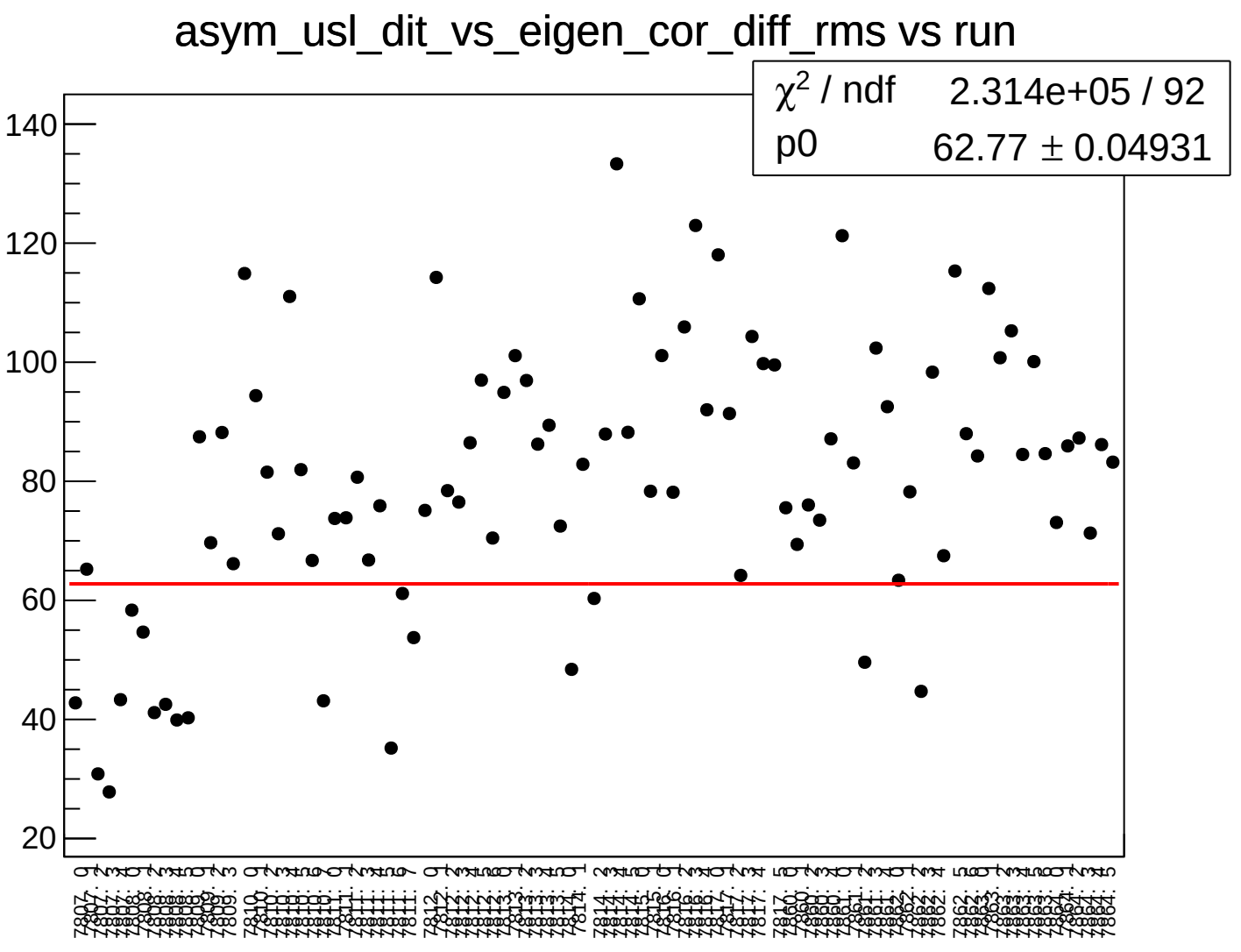

asym_usl_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.085e+05 / 92
p0 8.086e−11 ± 8.327e−14
1.2
1
0.8
0.6
0.4
0.2

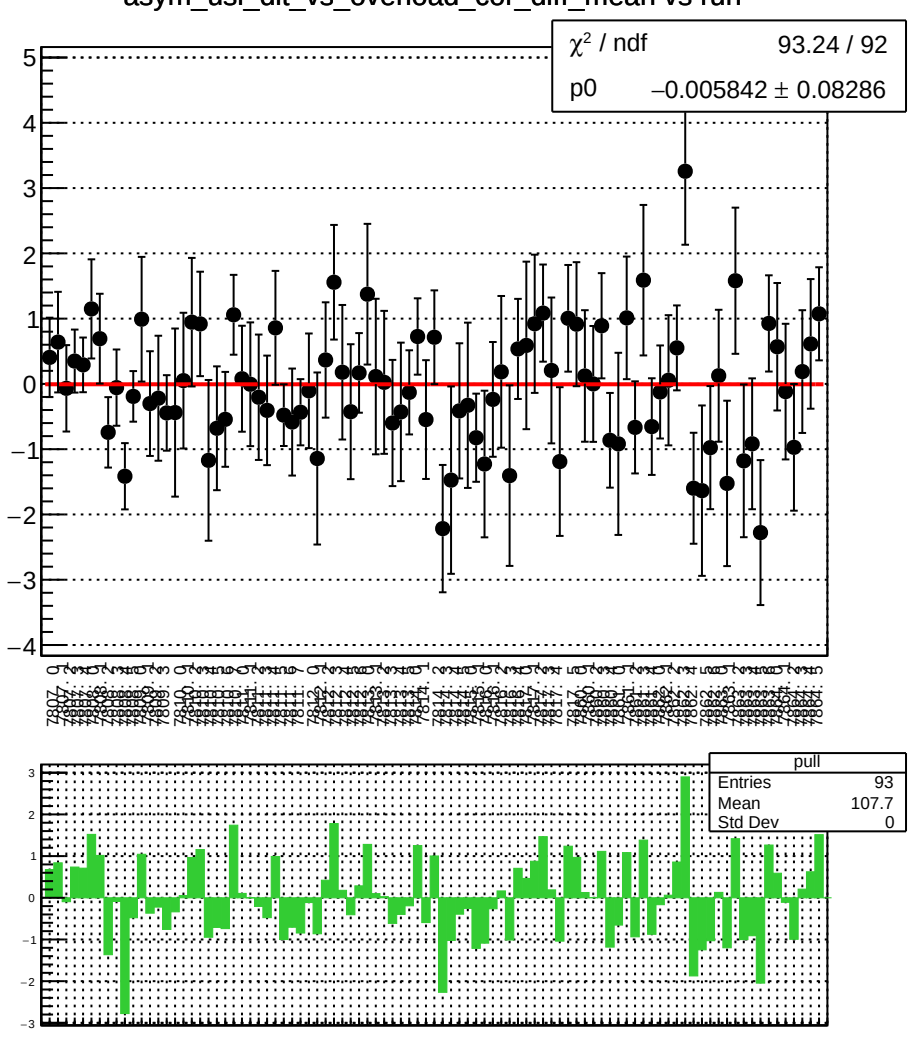

asym_usl_dit_vs_cor_diff_mean vs run
χ² / ndf 84.09 / 92
p0 0.001878 ± 0.06974
pull
Entries 93
Mean 277.2
Std Dev 0
pull1D
Entries 93
Mean 0.003849
Std Dev 0.9509

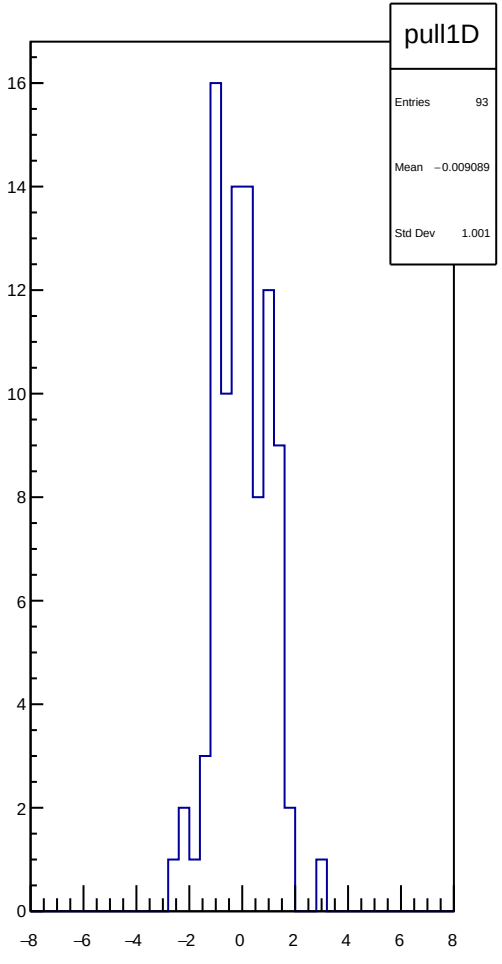

asym_usl_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.314e+05 / 92
p0 62.77 ± 0.04931
140
120
100
80
60
40
20

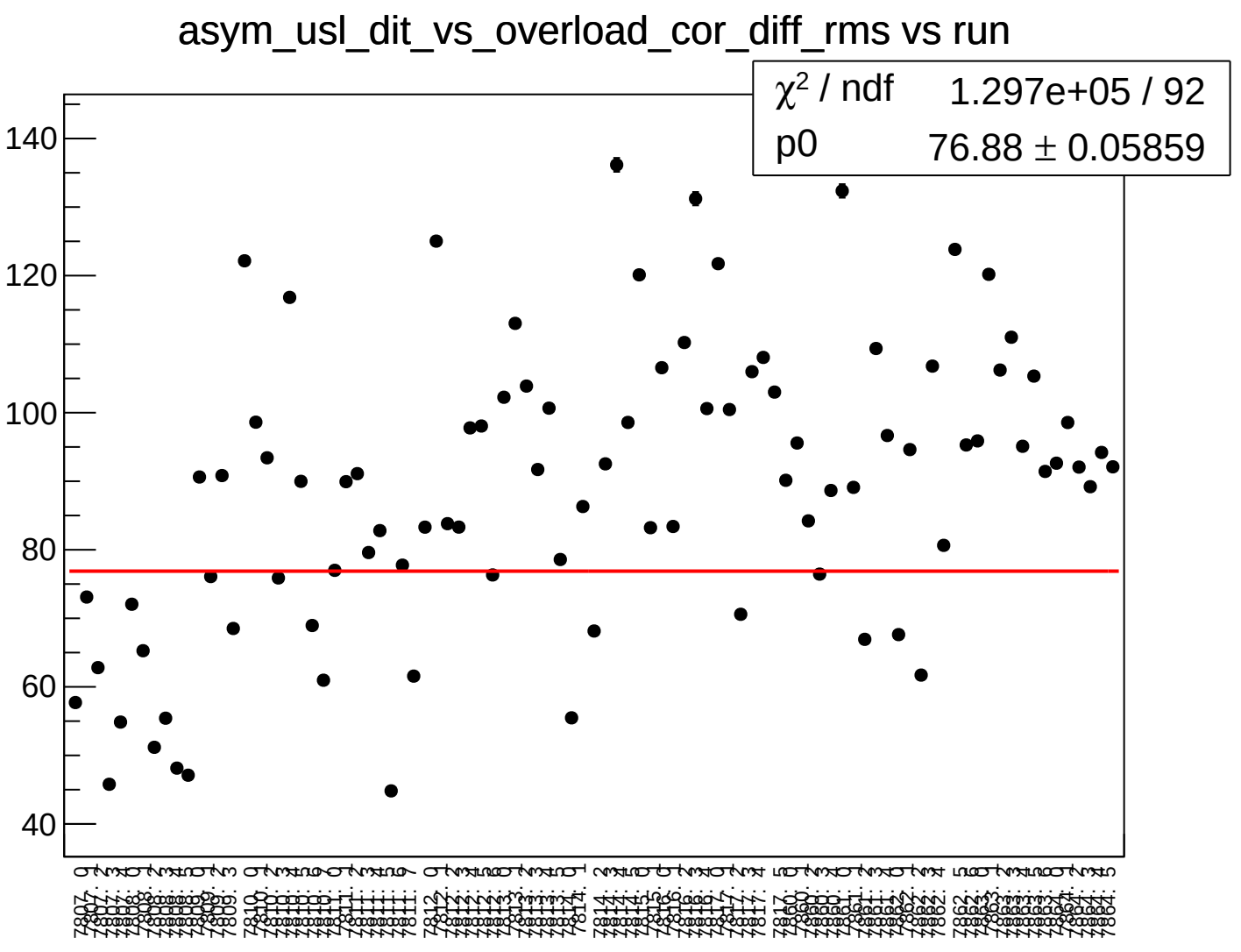

asym_usl_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.09 / 92
p0 0.001878 ± 0.06974
pull
Entries 93
Mean 277.2
Std Dev 0

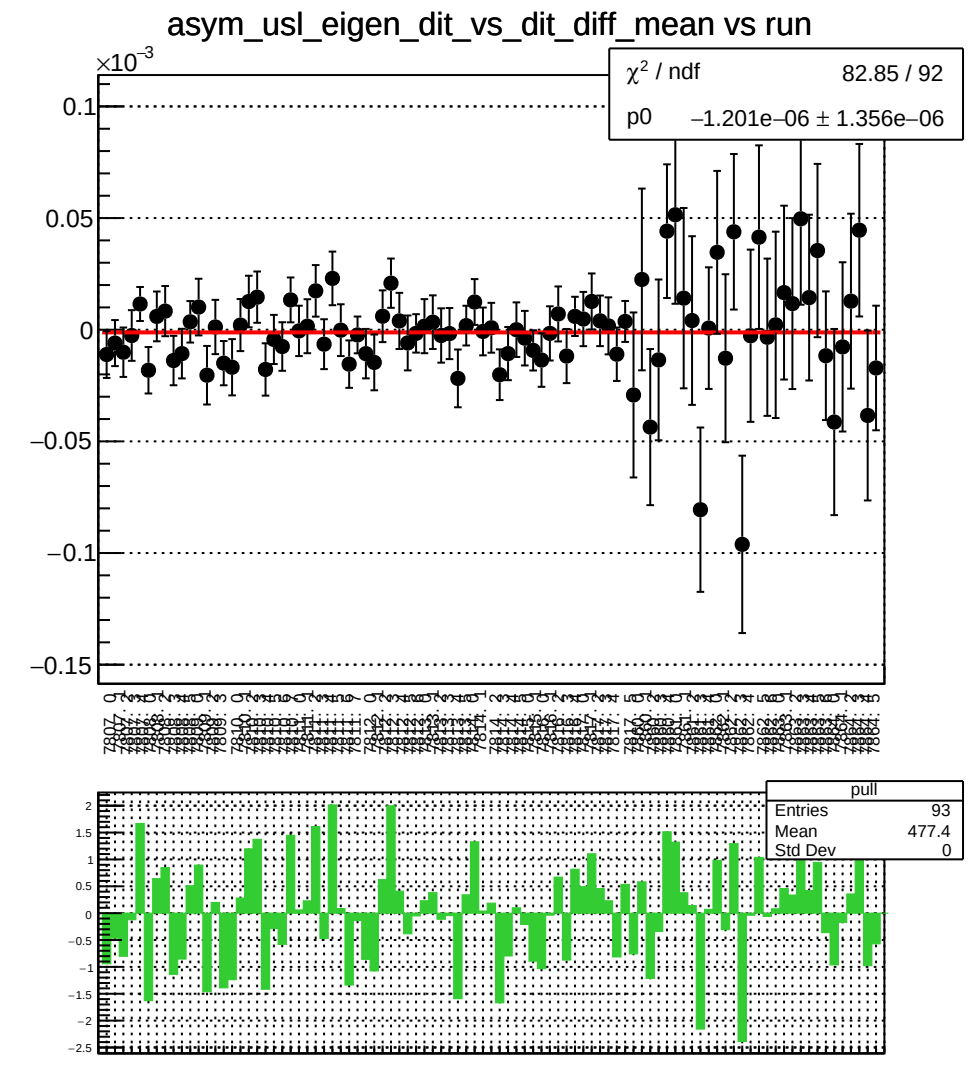

pull1D
Entries 93
Mean 0.003849
Std Dev 0.9509

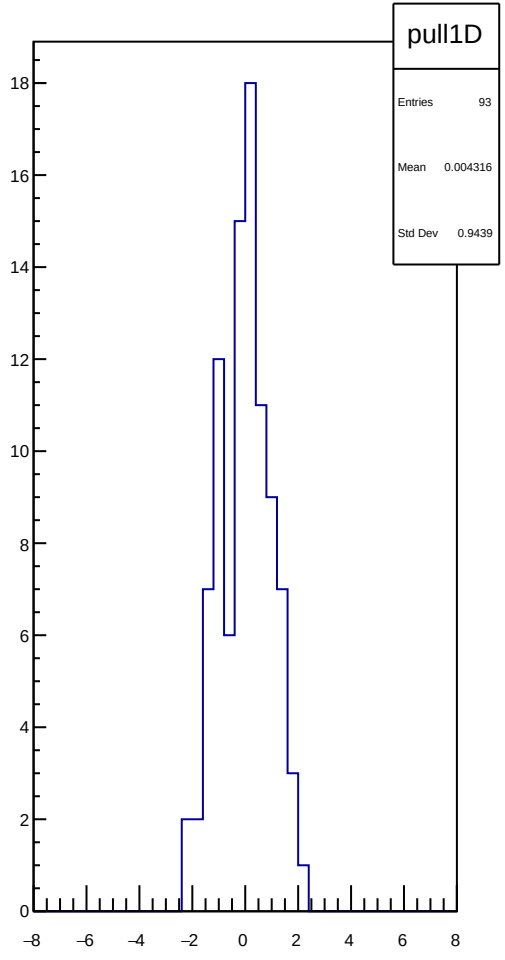

asym_usl_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.314e+05 / 92
p0 62.77 ± 0.04931
140
120
100
80
60
40
20

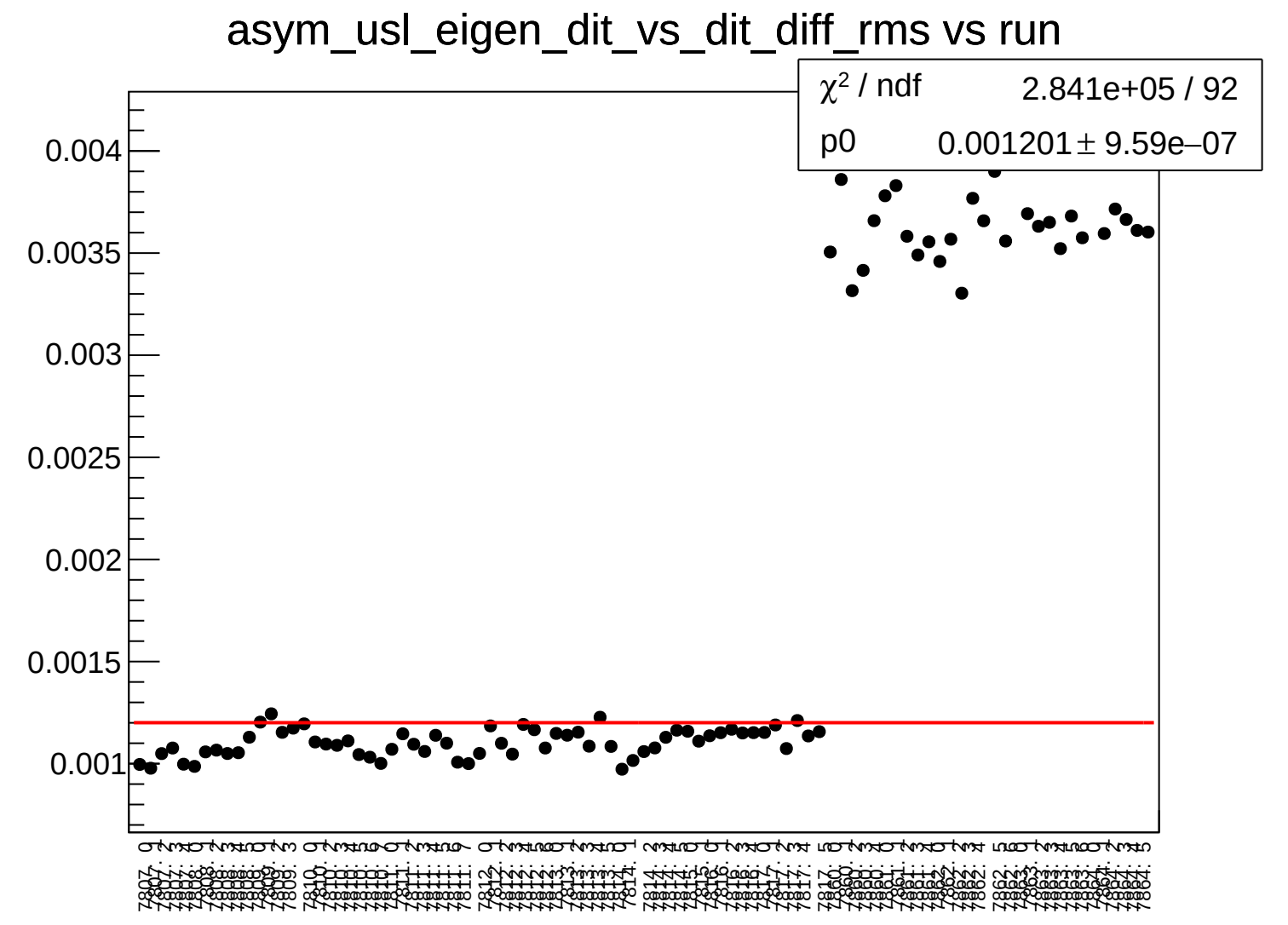

asym_usl_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 93.24 / 92
p0 −0.005842 ± 0.08286
pull
Entries 93
Mean 107.7
Std Dev 0

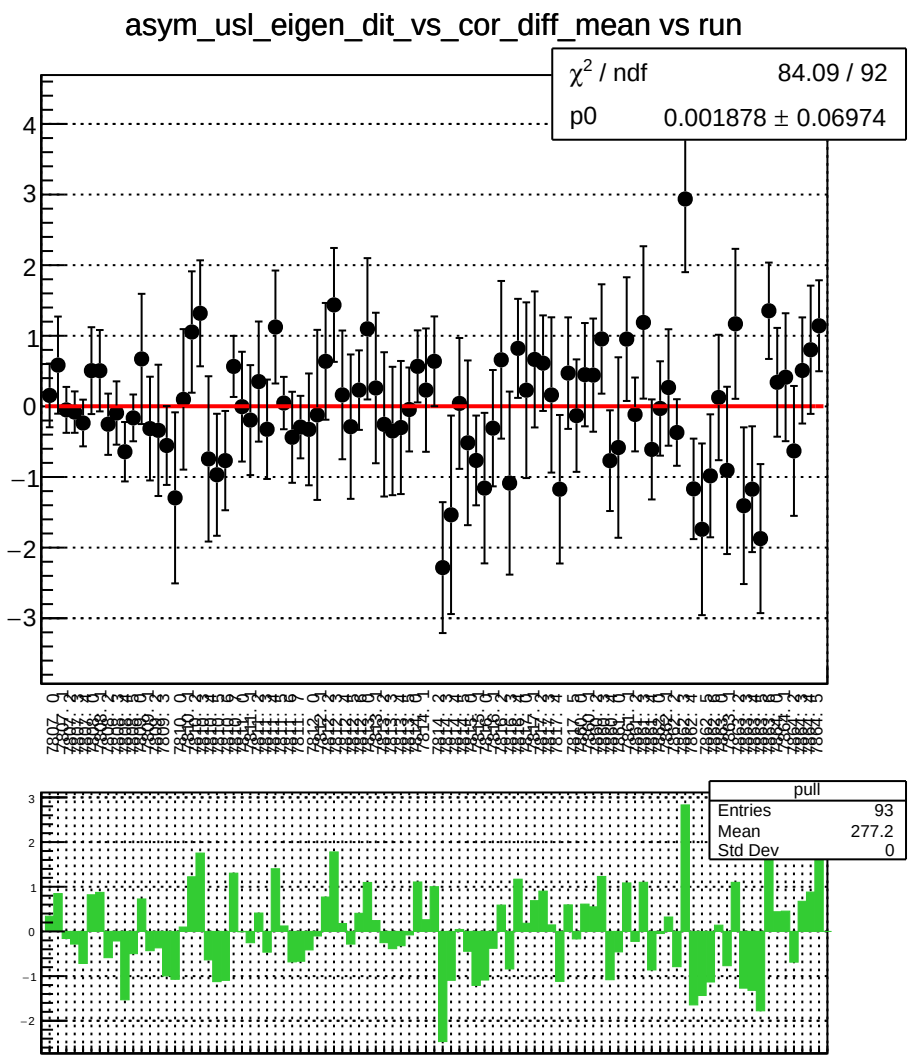

pull1D
Entries 93
Mean −0.009089
Std Dev 1.001

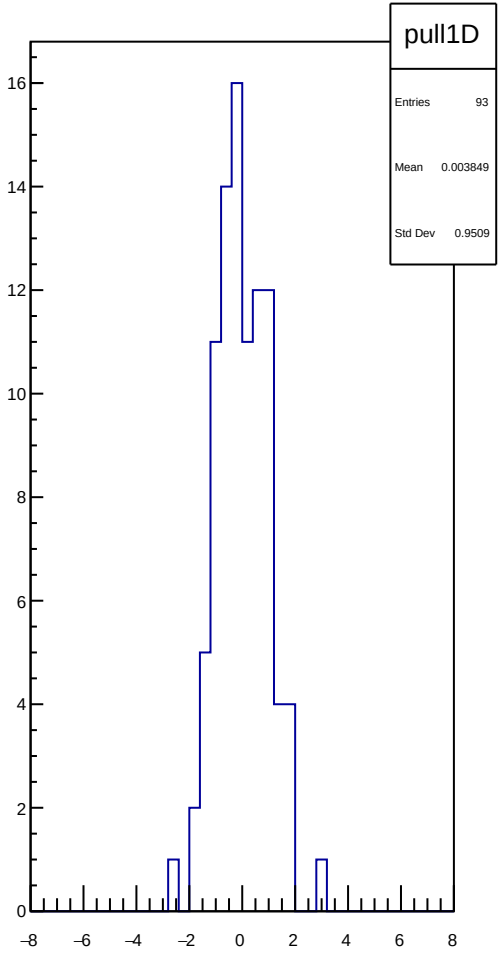

asym_usl_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.297e+05 / 92
p0 76.88 ± 0.05859
140
120
100
80
60
40

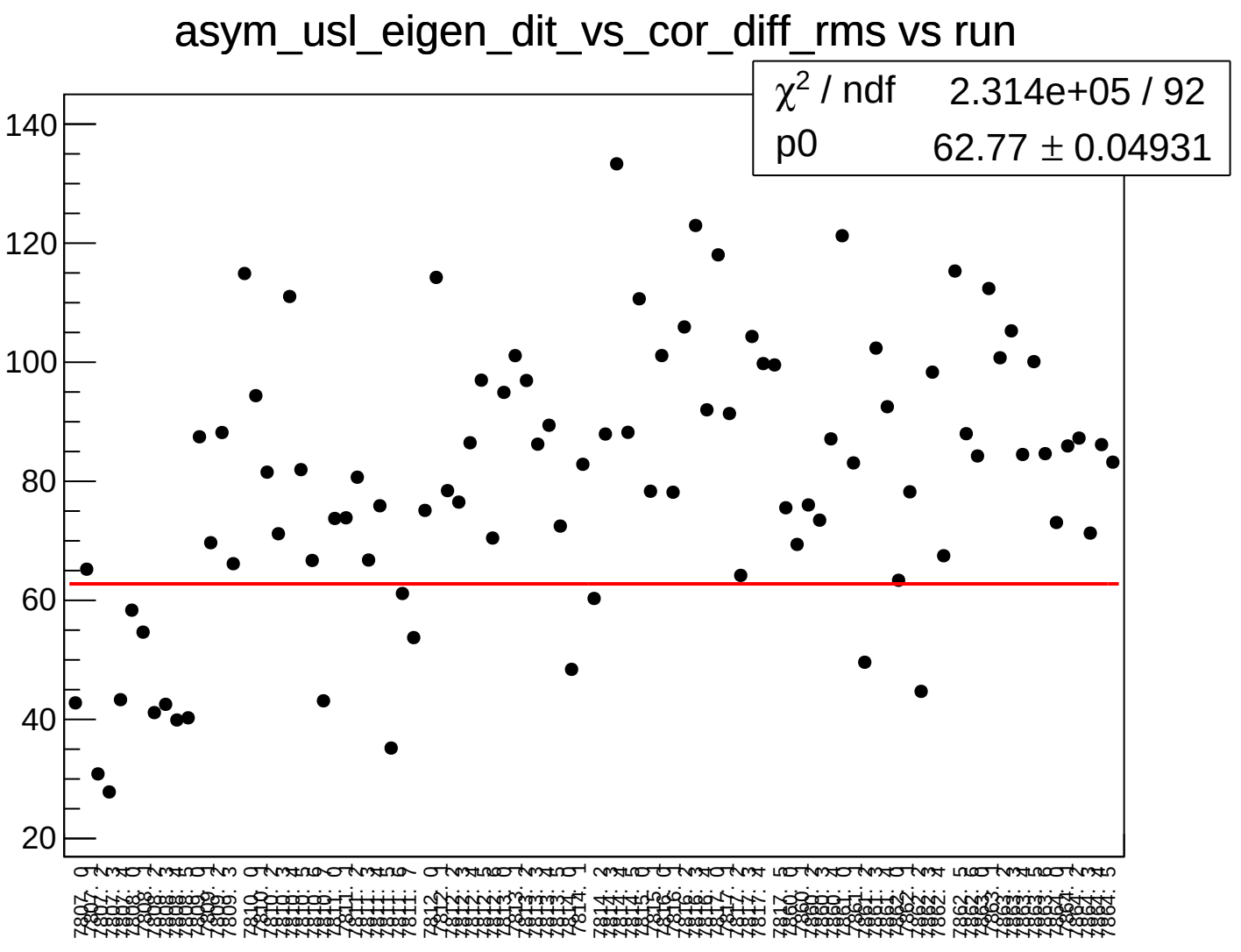

asym_usl_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 82.85 / 92
p0 −1.201e−06 ± 1.356e−06
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 93
Mean 477.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

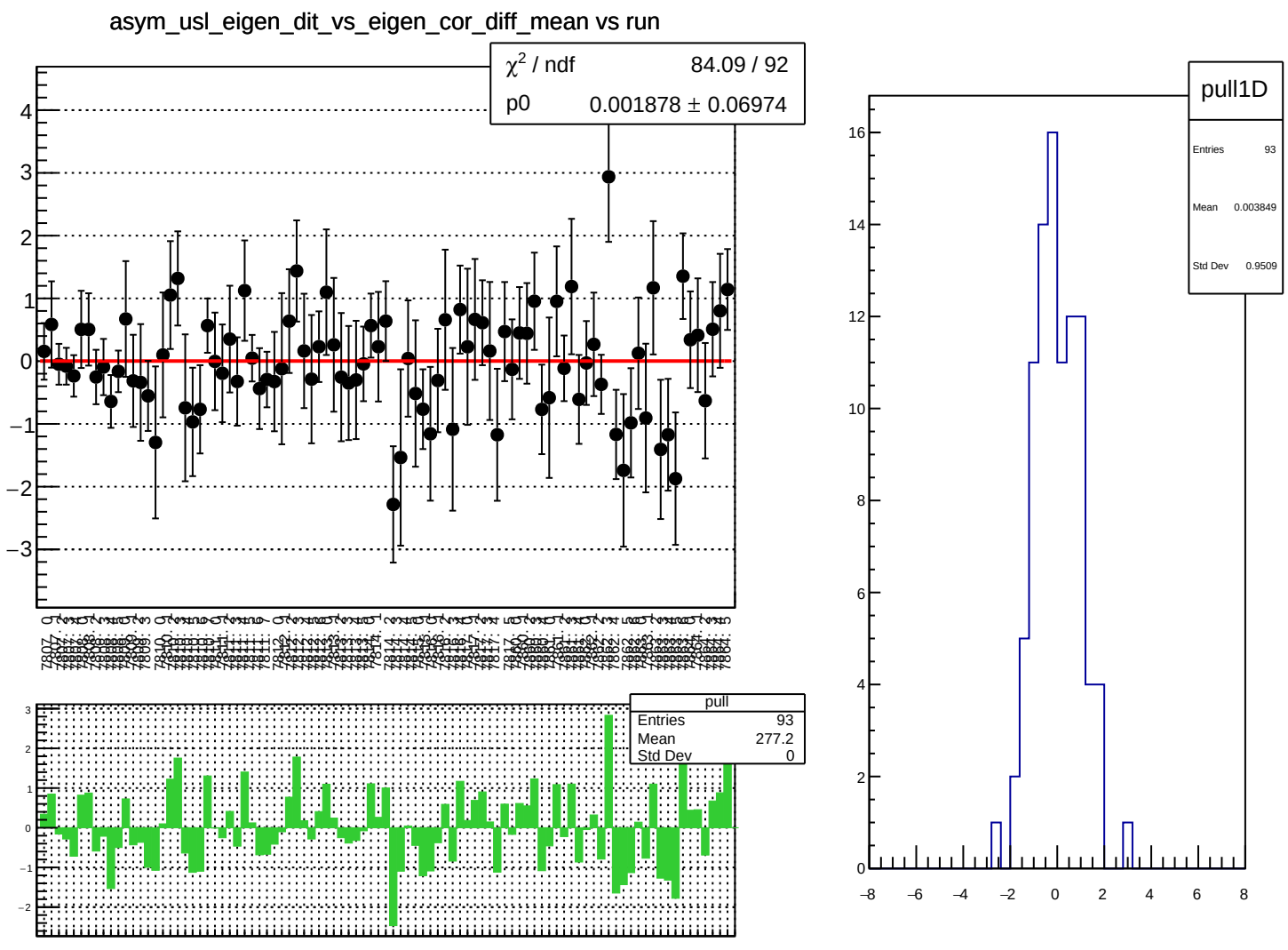

pull1D
Entries 93
Mean 0.004316
Std Dev 0.9439
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

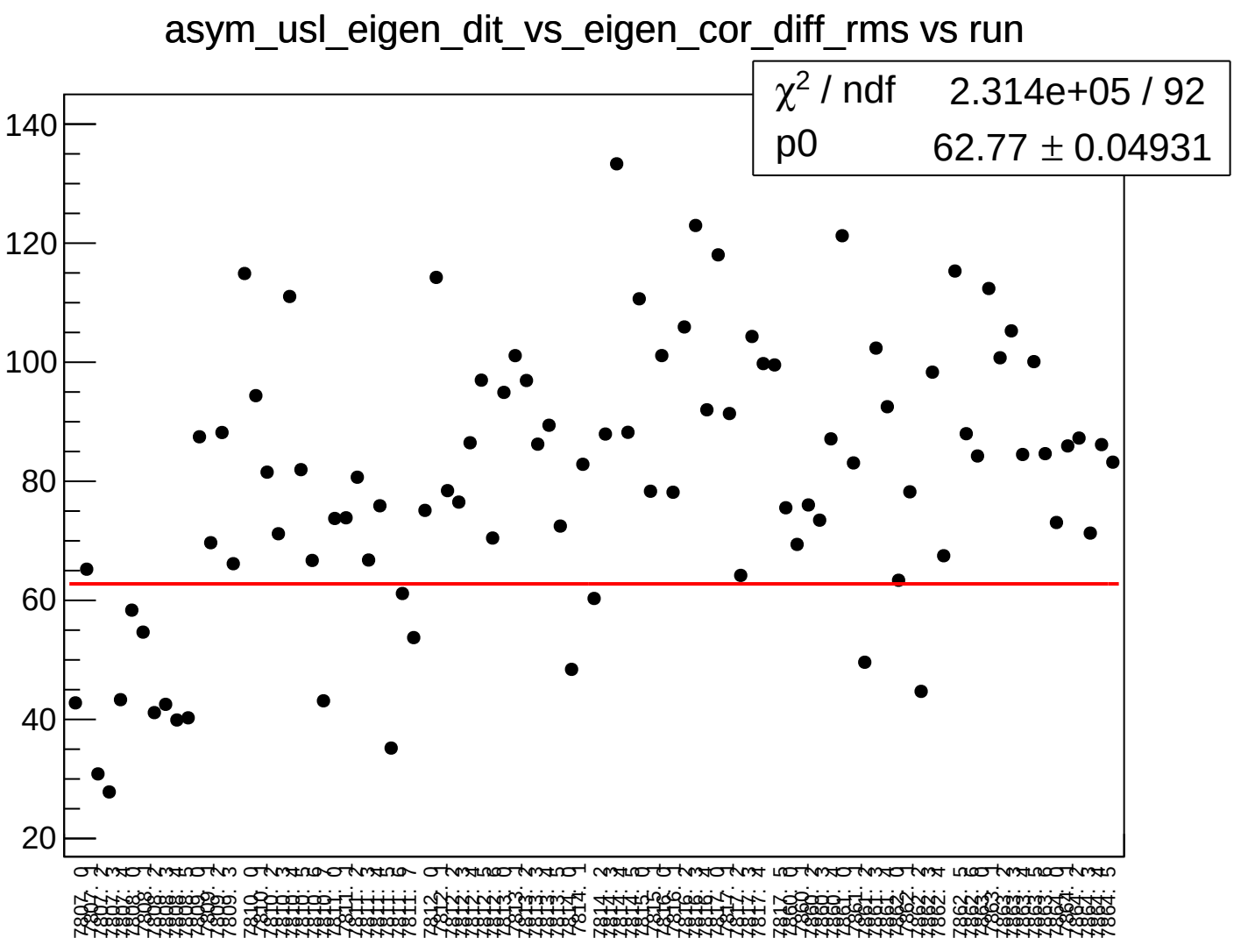

asym_usl_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.841e+05 / 92
p0 0.001201 ± 9.59e–07
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001

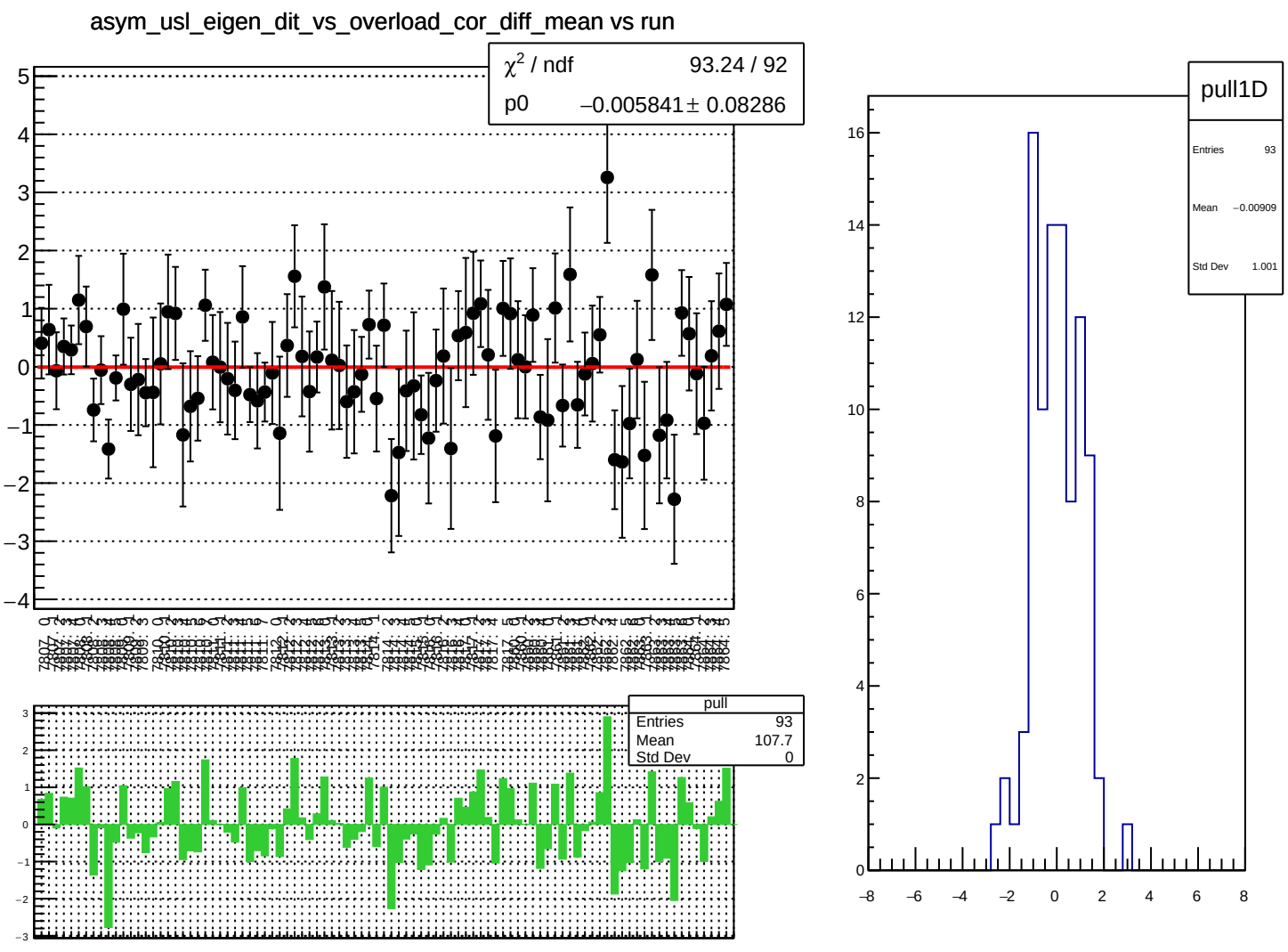

asym_usl_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.09 / 92
p0 0.001878 ± 0.06974
pull
Entries 93
Mean 277.2
Std Dev 0

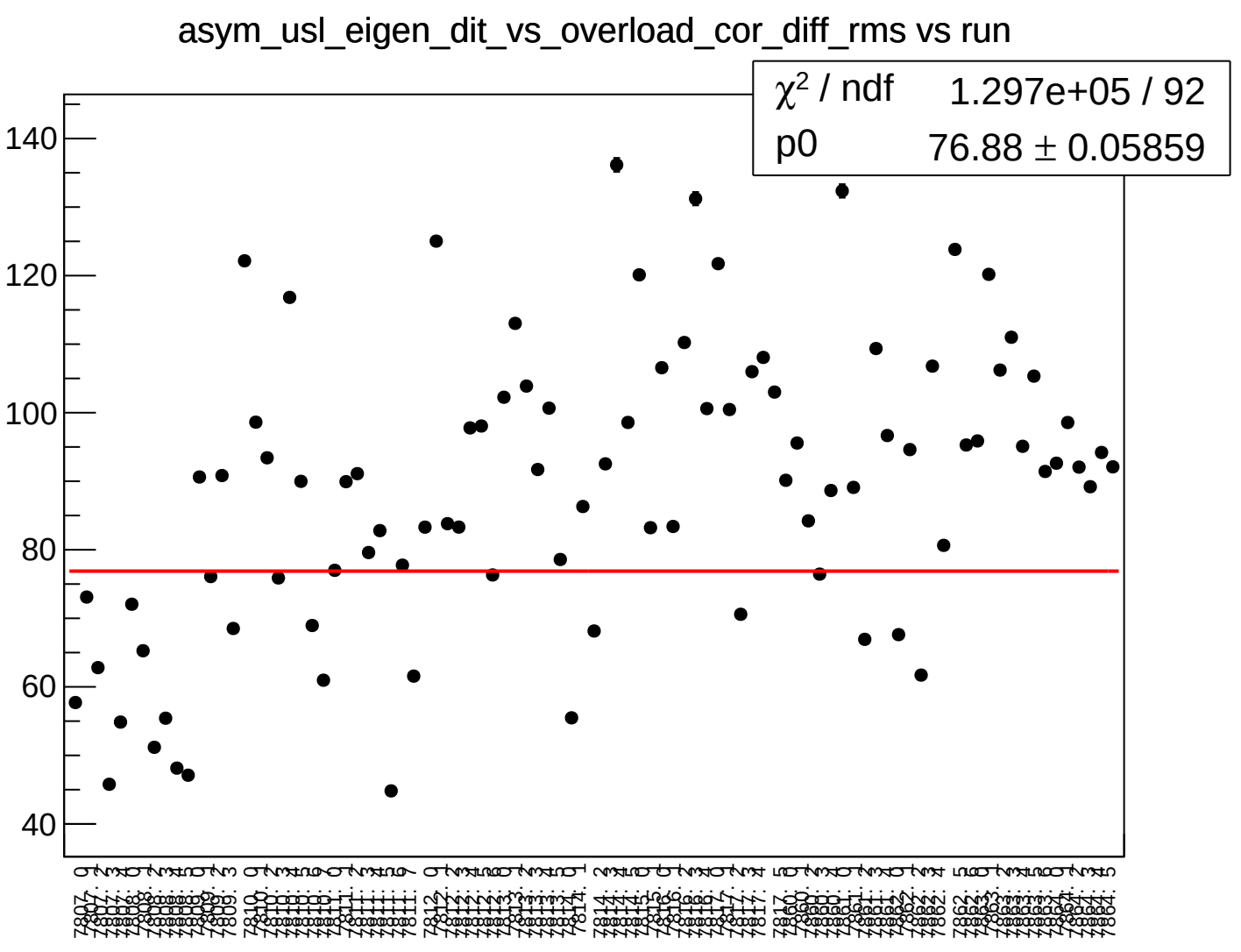

pull1D
Entries 93
Mean 0.003849
Std Dev 0.9509

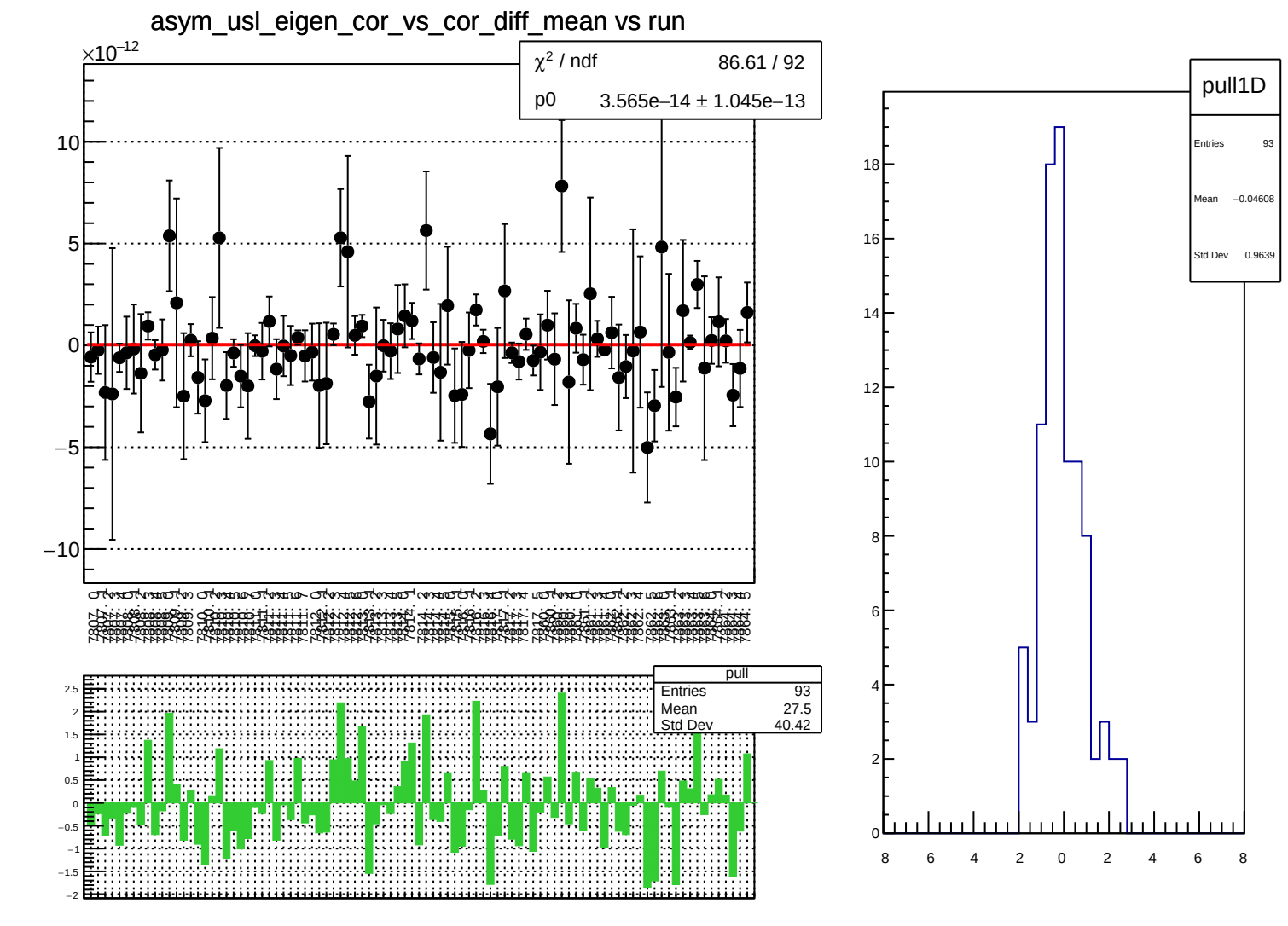

asym_usl_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.314e+05 / 92
p0 62.77 ± 0.04931
140
120
100
80
60
40
20

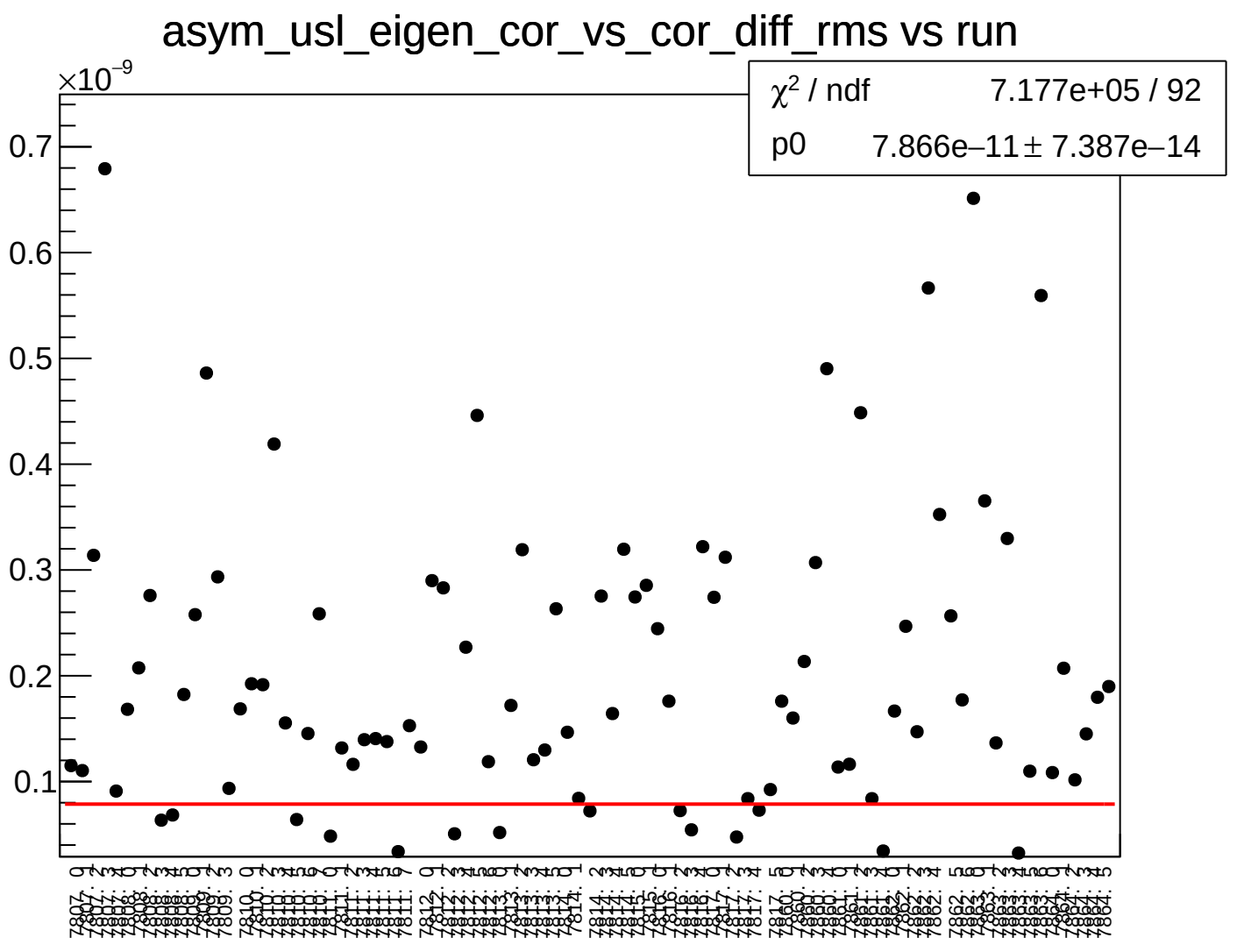

asym_usl_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.09 / 92
p0 0.001878 ± 0.06974
pull
Entries 93
Mean 277.2
Std Dev 0
pull1D
Entries 93
Mean 0.003849
Std Dev 0.9509

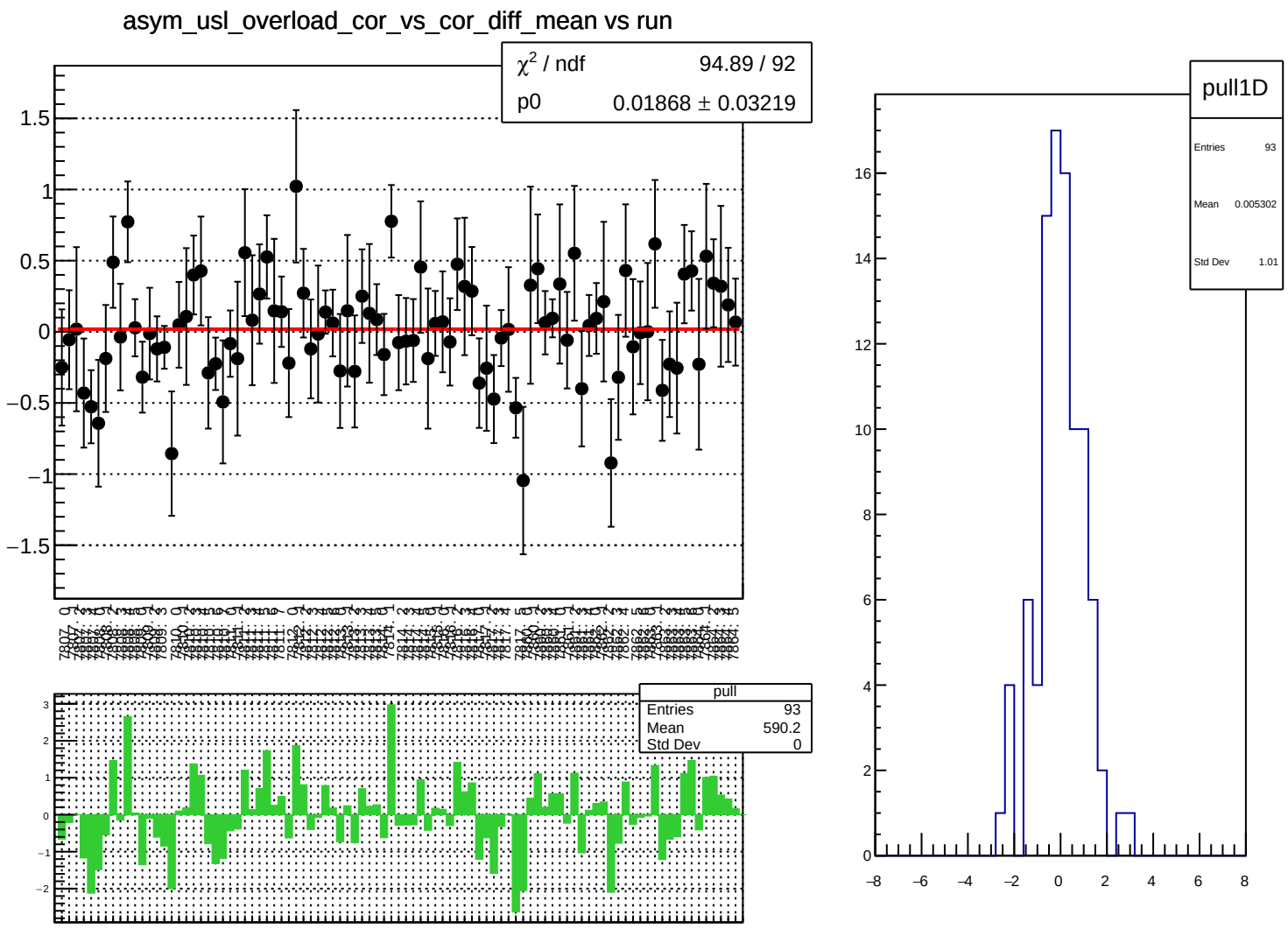

asym_usl_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.314e+05 / 92
p0 62.77 ± 0.04931
140
120
100
80
60
40
20

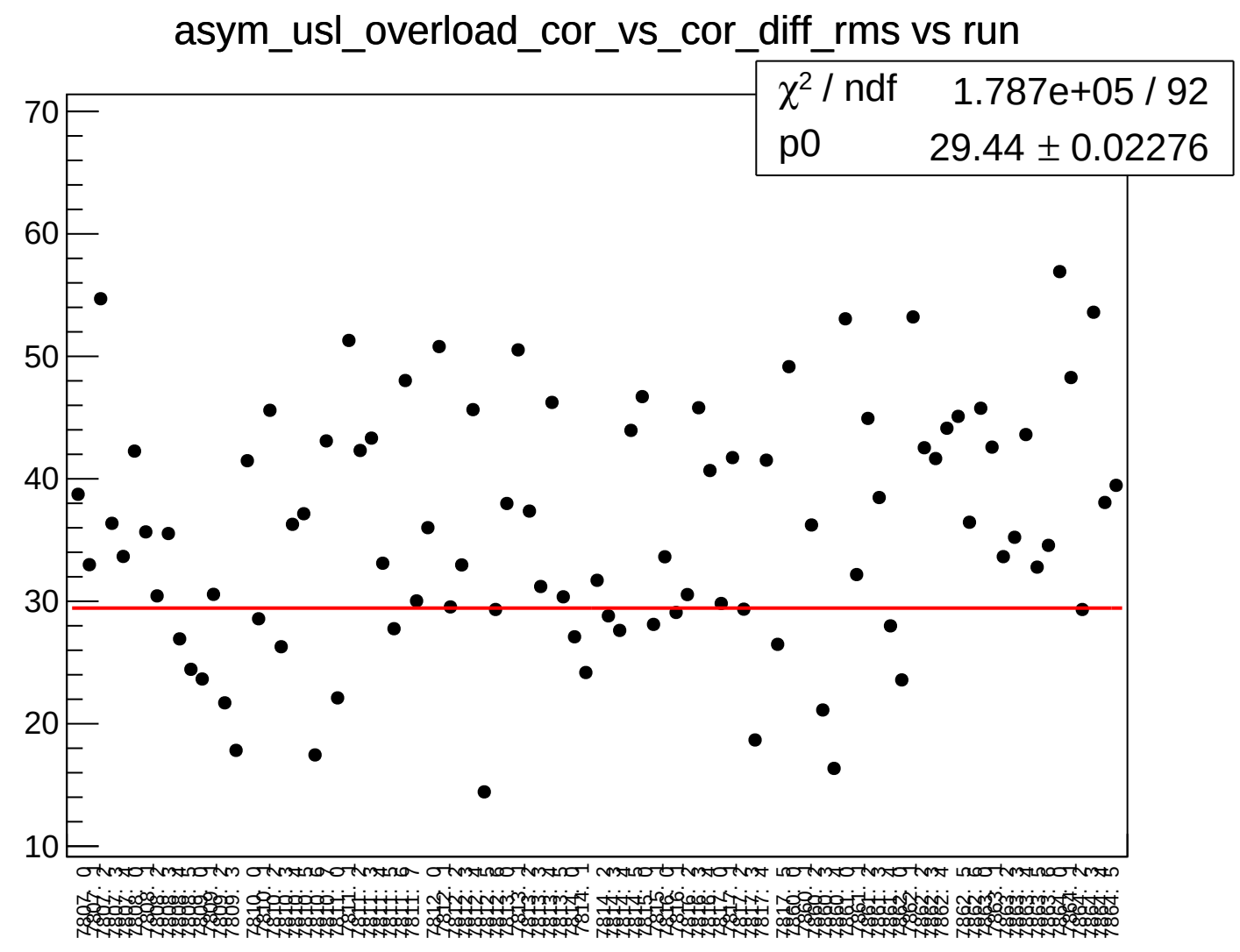

asym_usl_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 93.24 / 92
p0 −0.005841 ± 0.08286
pull
Entries 93
Mean 107.7
Std Dev 0
pull1D
Entries 93
Mean −0.00909
Std Dev 1.001

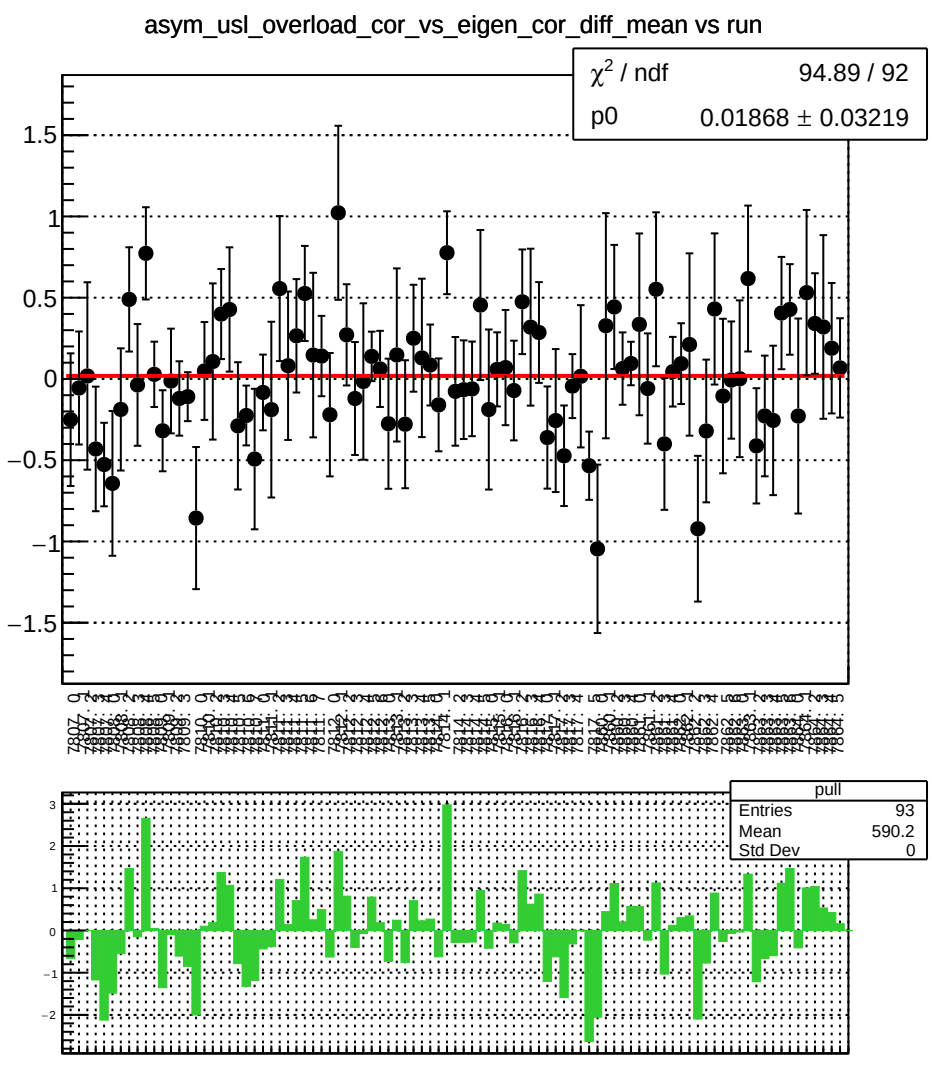

asym_usl_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.297e+05 / 92
p0 76.88 ± 0.05859
140
120
100
80
60
40

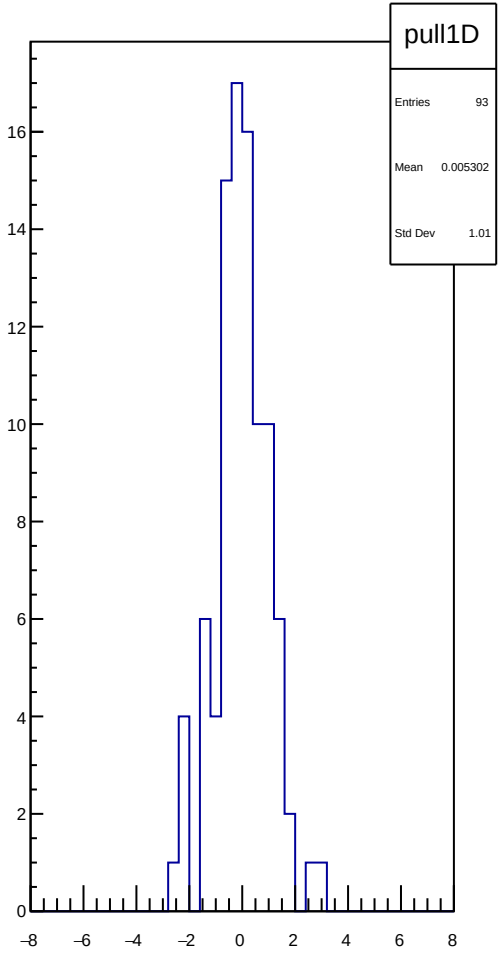

asym_usl_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.61 / 92
p0 3.565e−14 ± 1.045e−13
pull
Entries 93
Mean 27.5
Std Dev 40.42
pull1D
Entries 93
Mean −0.04608
Std Dev 0.9639

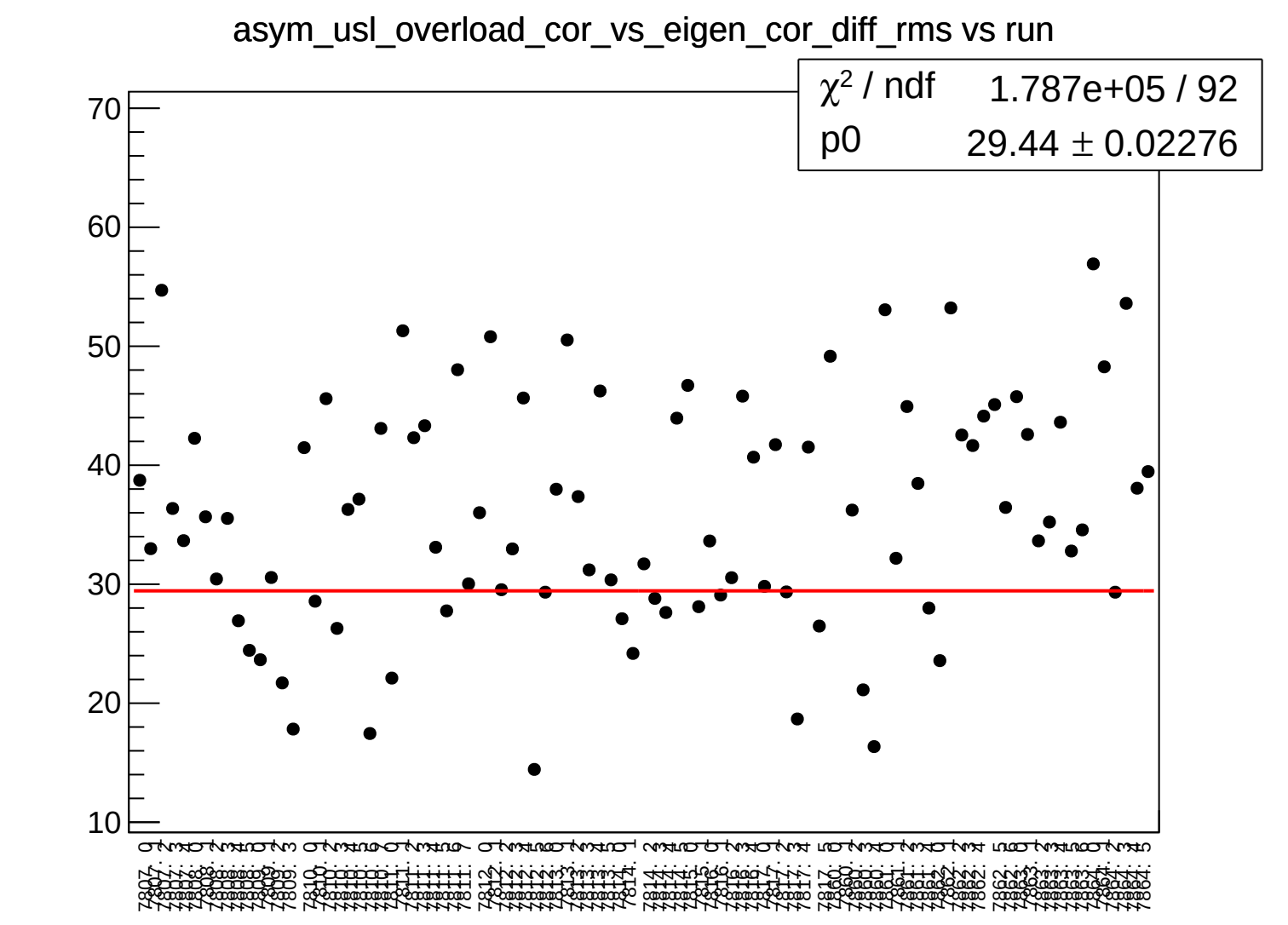

asym_usl_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.177e+05 / 92
p0 7.866e−11 ± 7.387e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

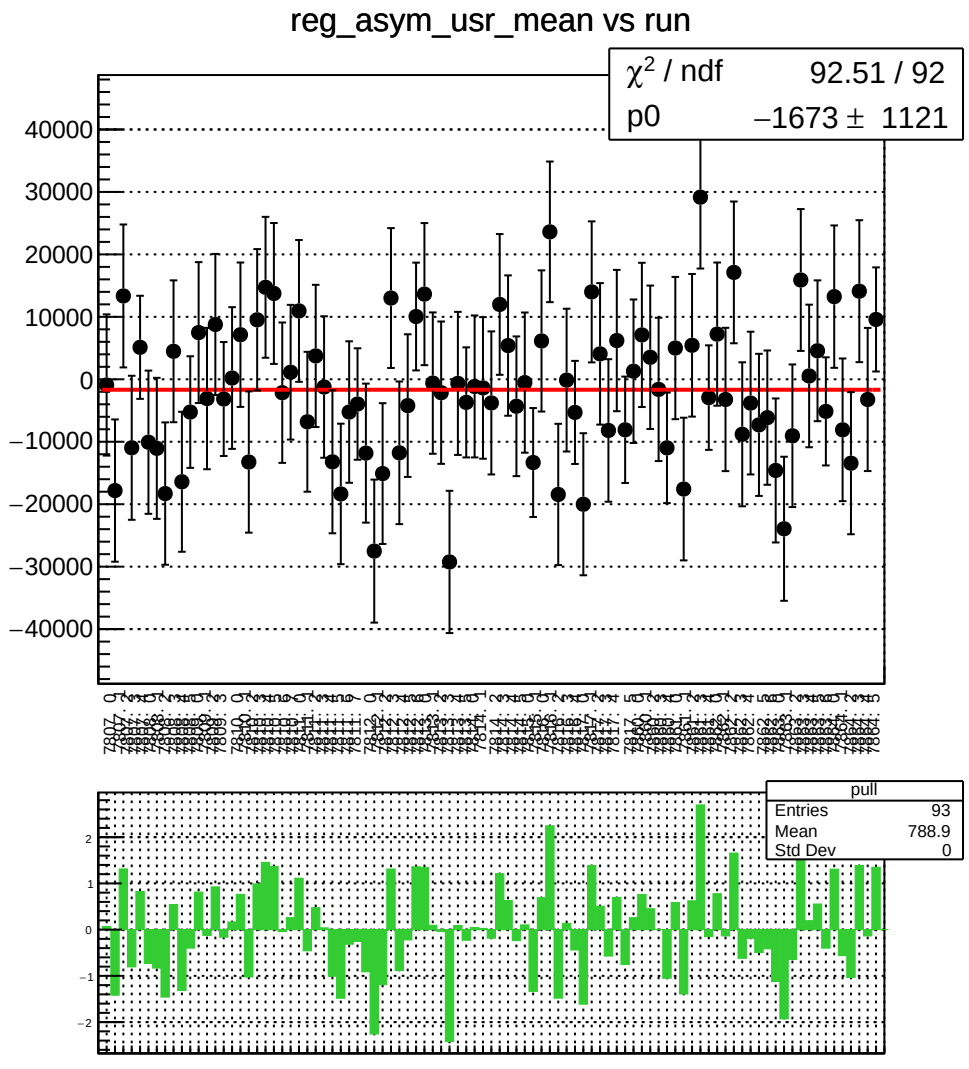

asym_usl_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 94.89 / 92
p0 0.01868 ± 0.03219
pull
Entries 93
Mean 590.2
Std Dev 0
pull1D
Entries 93
Mean 0.005302
Std Dev 1.01

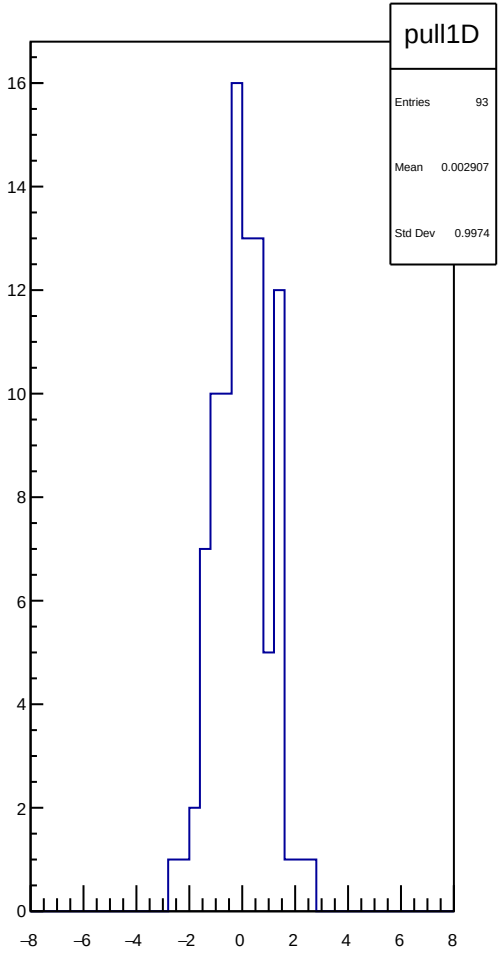

asym_usl_overload_cor_vs_cor_diff_rms vs run
χ^2 / ndf 1.787e+05 / 92
p0 29.44 ± 0.02276
70
60
50
40
30
20
10

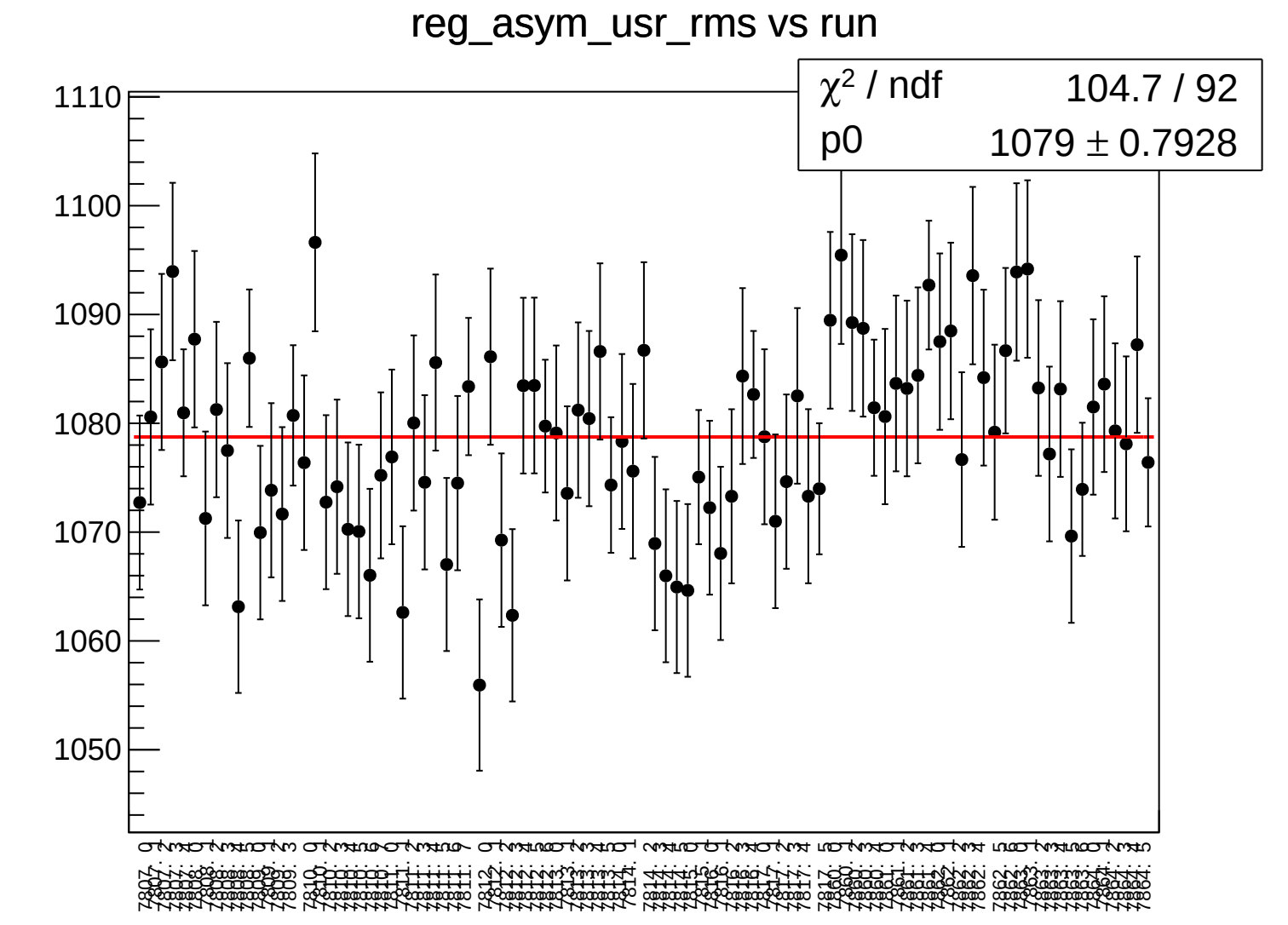

asym_usl_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.89 / 92
p0 0.01868 ± 0.03219
pull
Entries 93
Mean 590.2
Std Dev 0

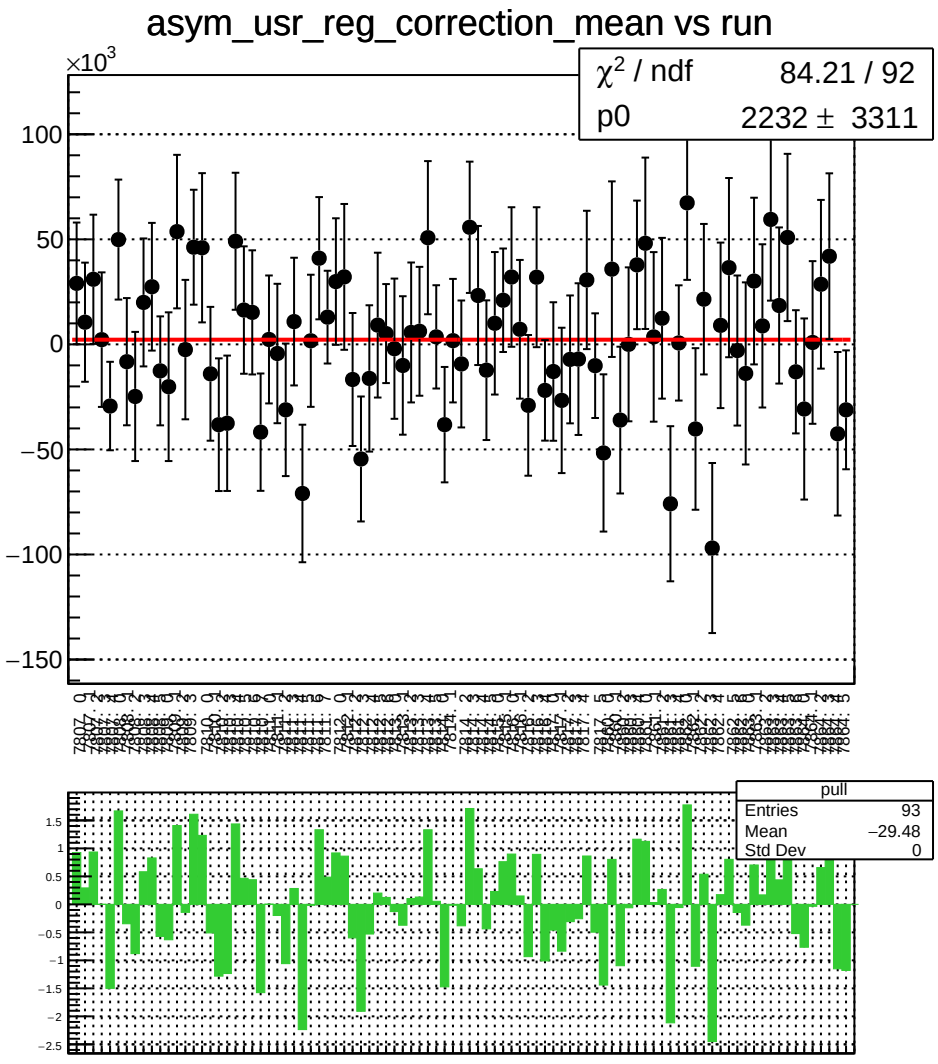

pull1D
Entries 93
Mean 0.005302
Std Dev 1.01

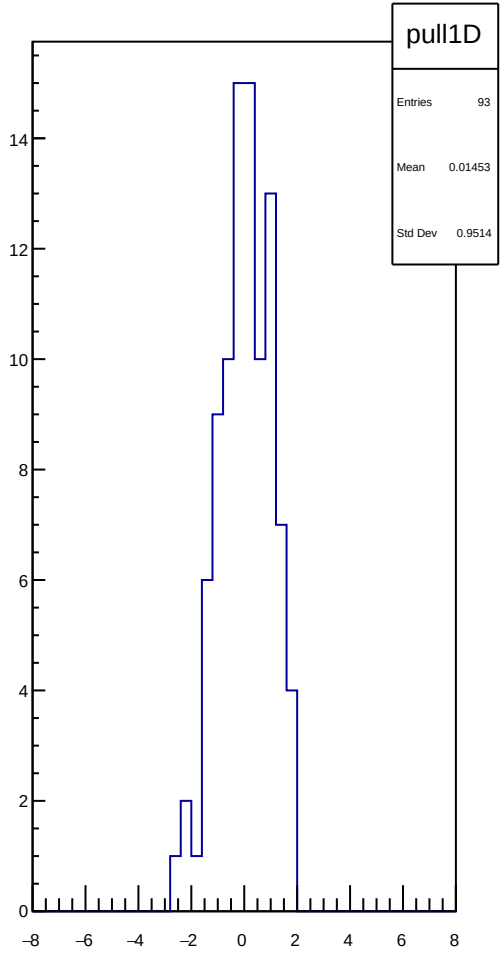

asym_usl_overload_cor_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.787e+05 / 92
p0 29.44 ± 0.02276
70
60
50
40
30
20
10

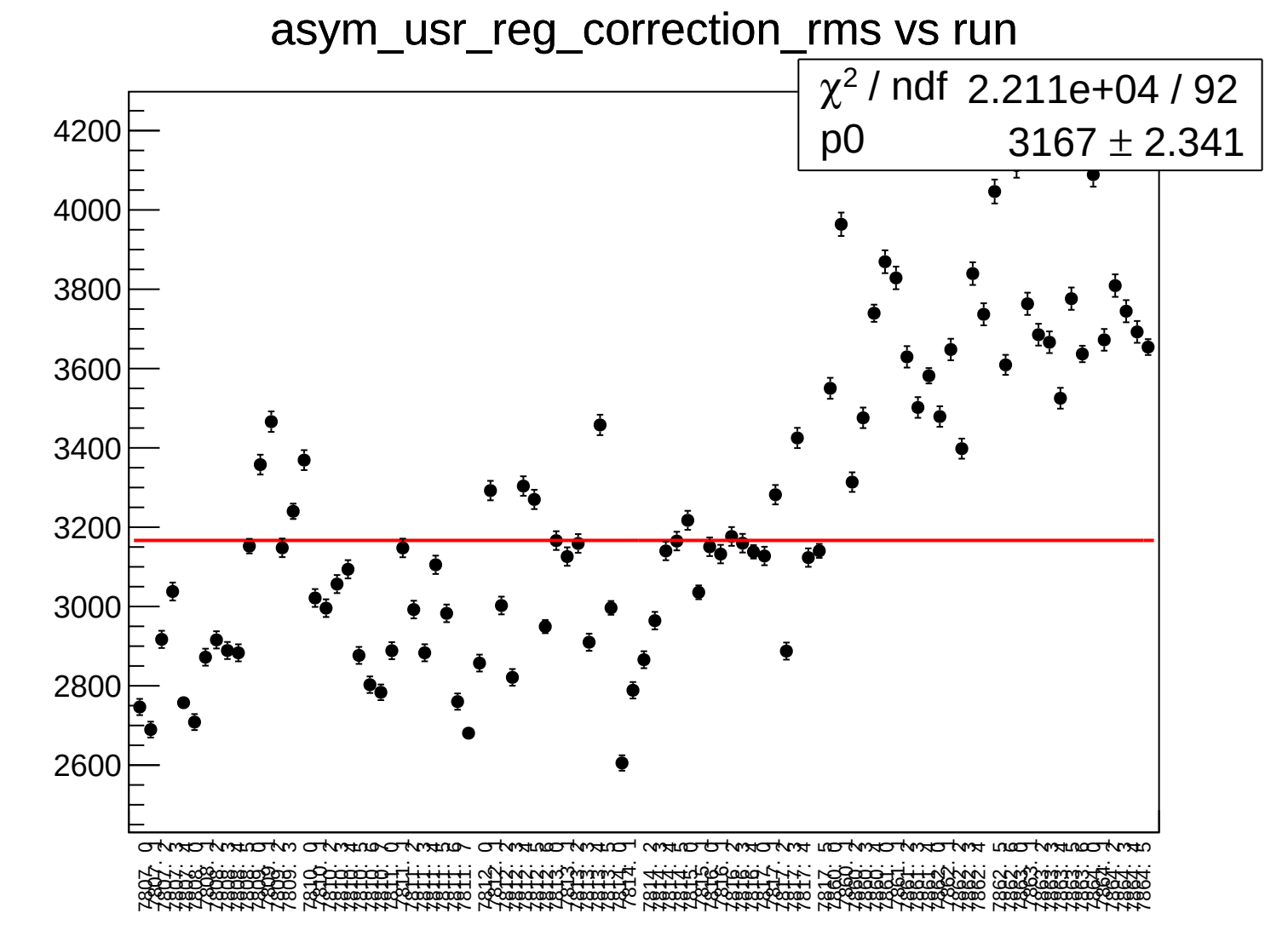

reg_asym_usr_mean vs run
χ² / ndf 92.51 / 92
p0 −1673 ± 1121
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean 788.9
Std Dev 0
2
1
0
−1
−2

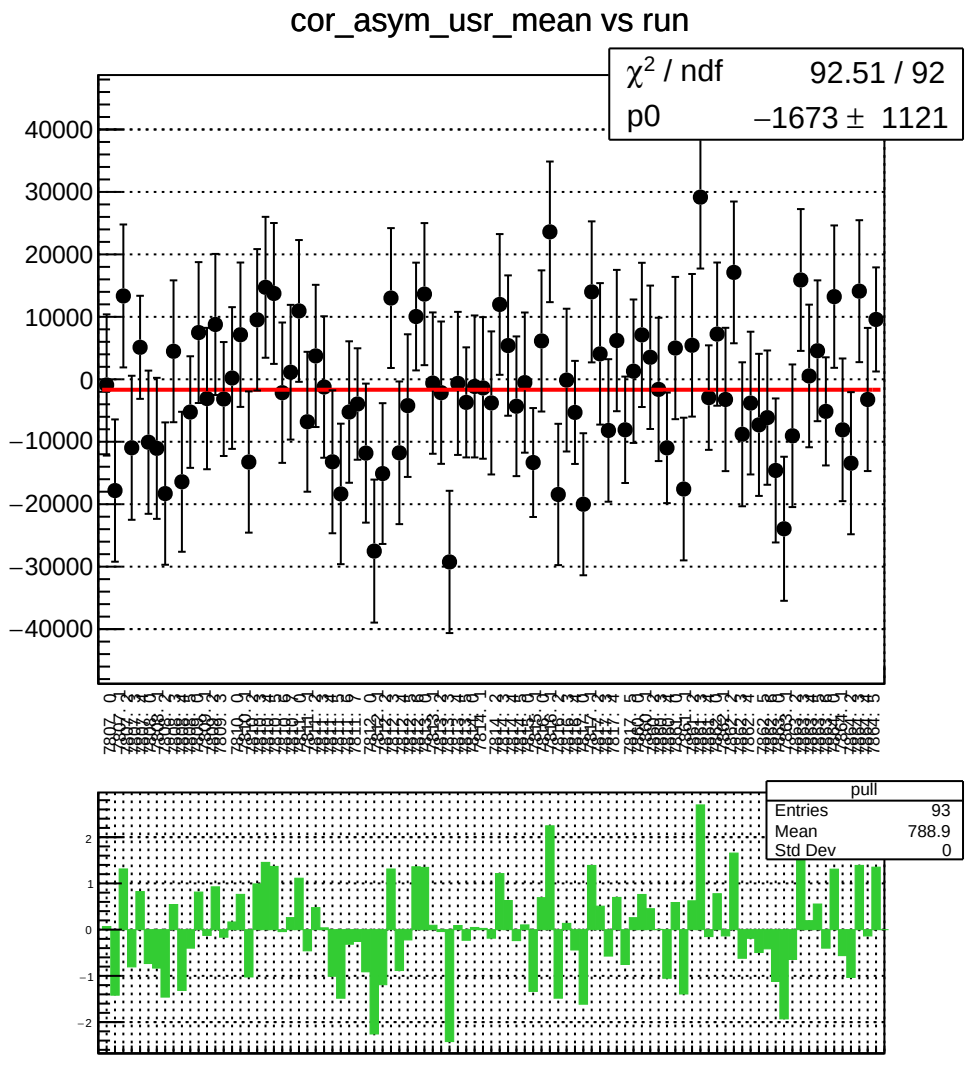

pull1D
Entries 93
Mean 0.002907
Std Dev 0.9974
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

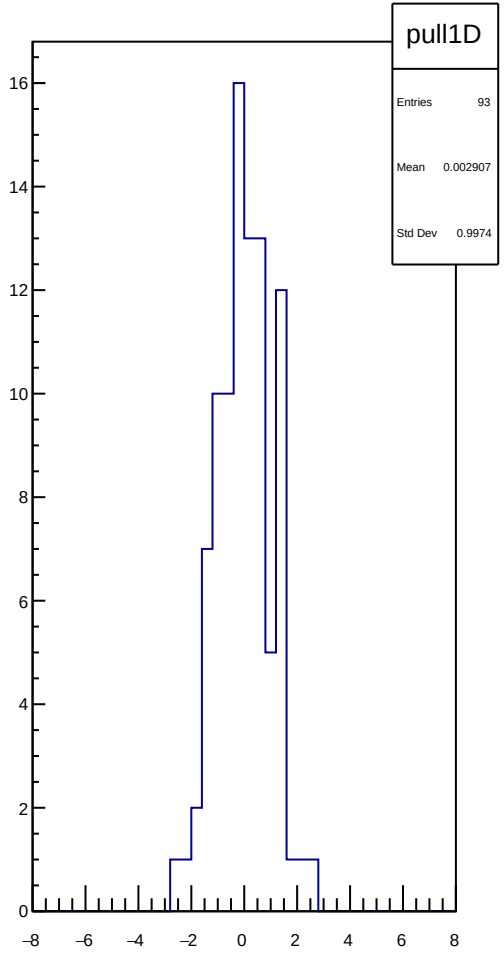

reg_asym_usr_rms vs run
χ² / ndf 104.7 / 92
p0 1079 ± 0.7928
1110
1100
1090
1080
1070
1060
1050

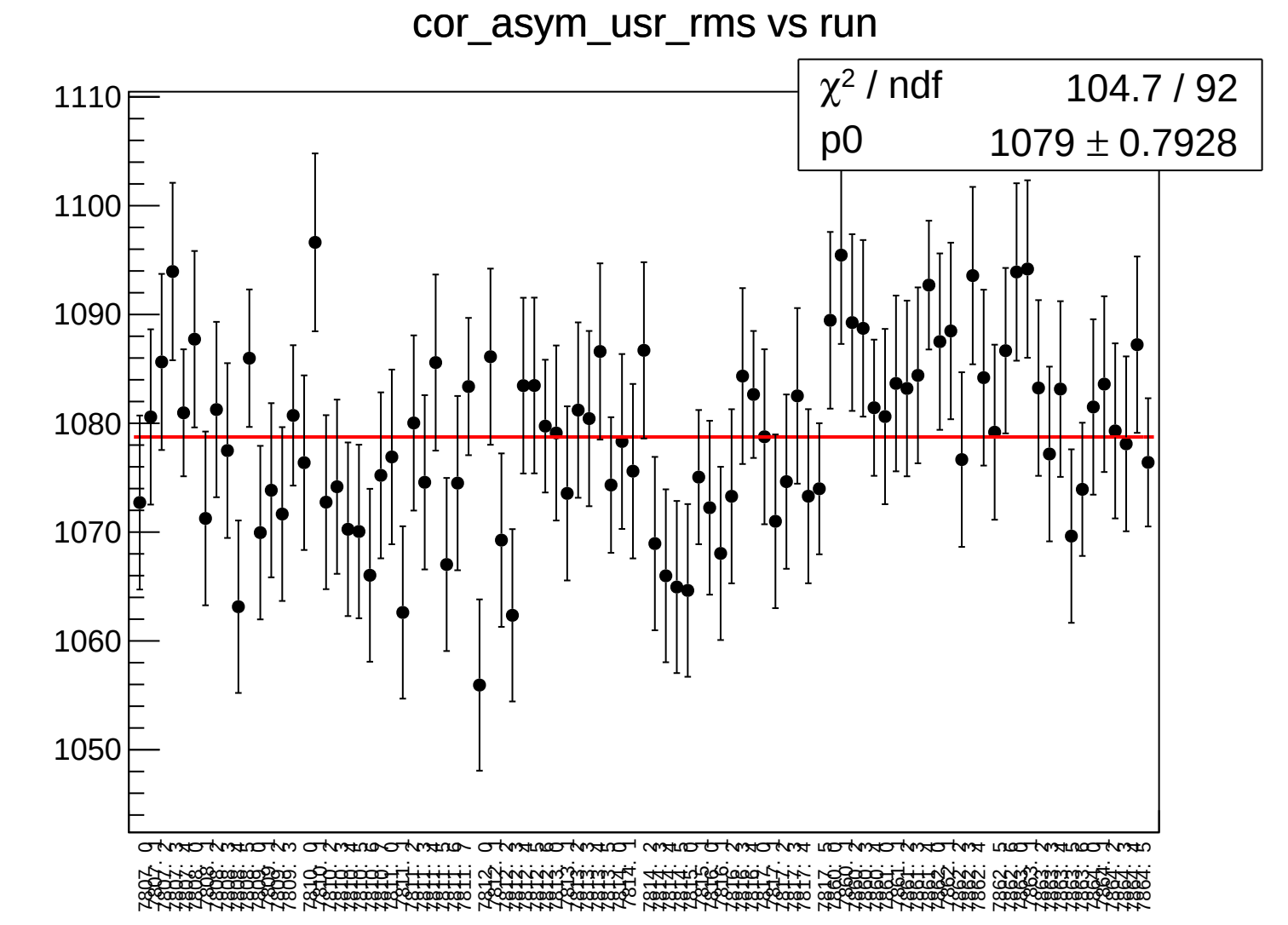

asym_usr_reg_correction_mean vs run
×10^3
χ² / ndf 84.21 / 92
p0 2232 ± 3311
100
50
0
−50
−100
−150
pull
Entries 93
Mean −29.48
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

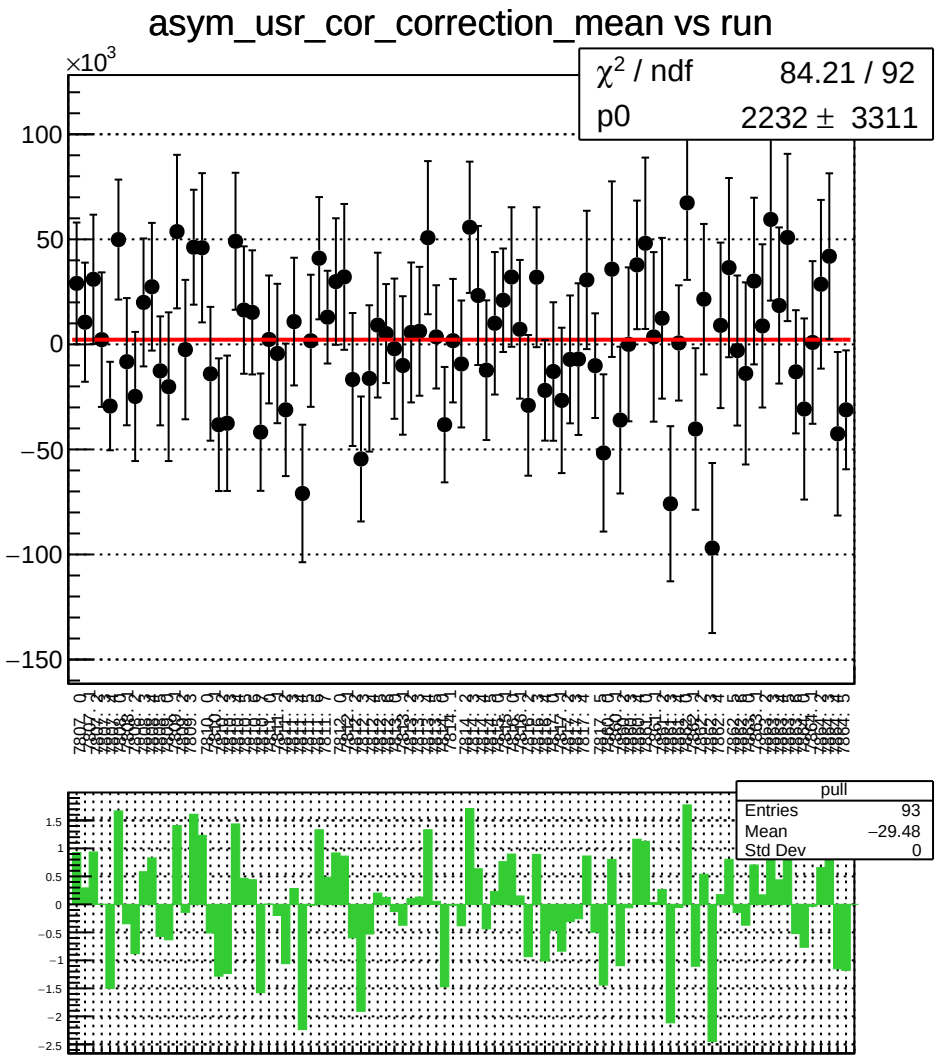

pull1D
Entries 93
Mean 0.01453
Std Dev 0.9514
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

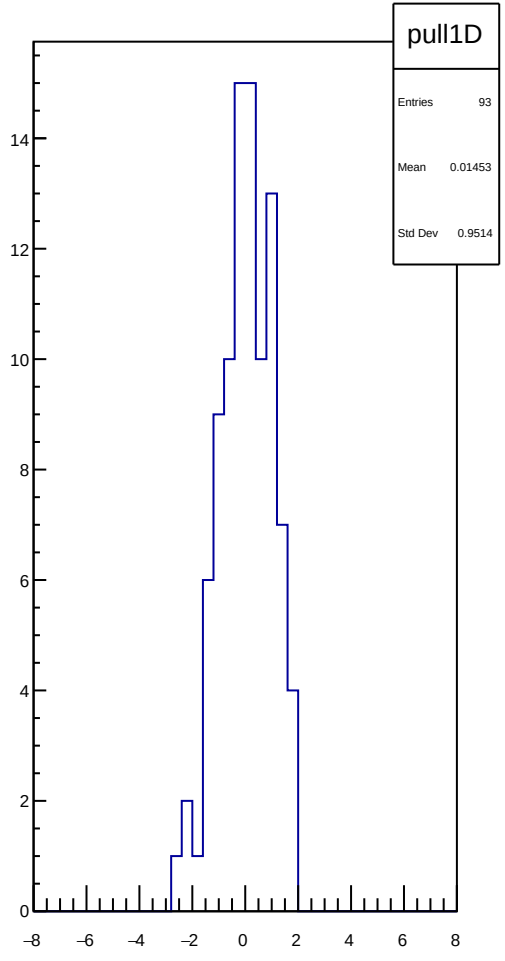

asym_usr_reg_correction_rms vs run
χ² / ndf 2.211e+04 / 92
p0 3167 ± 2.341
4200
4000
3800
3600
3400
3200
3000
2800
2600

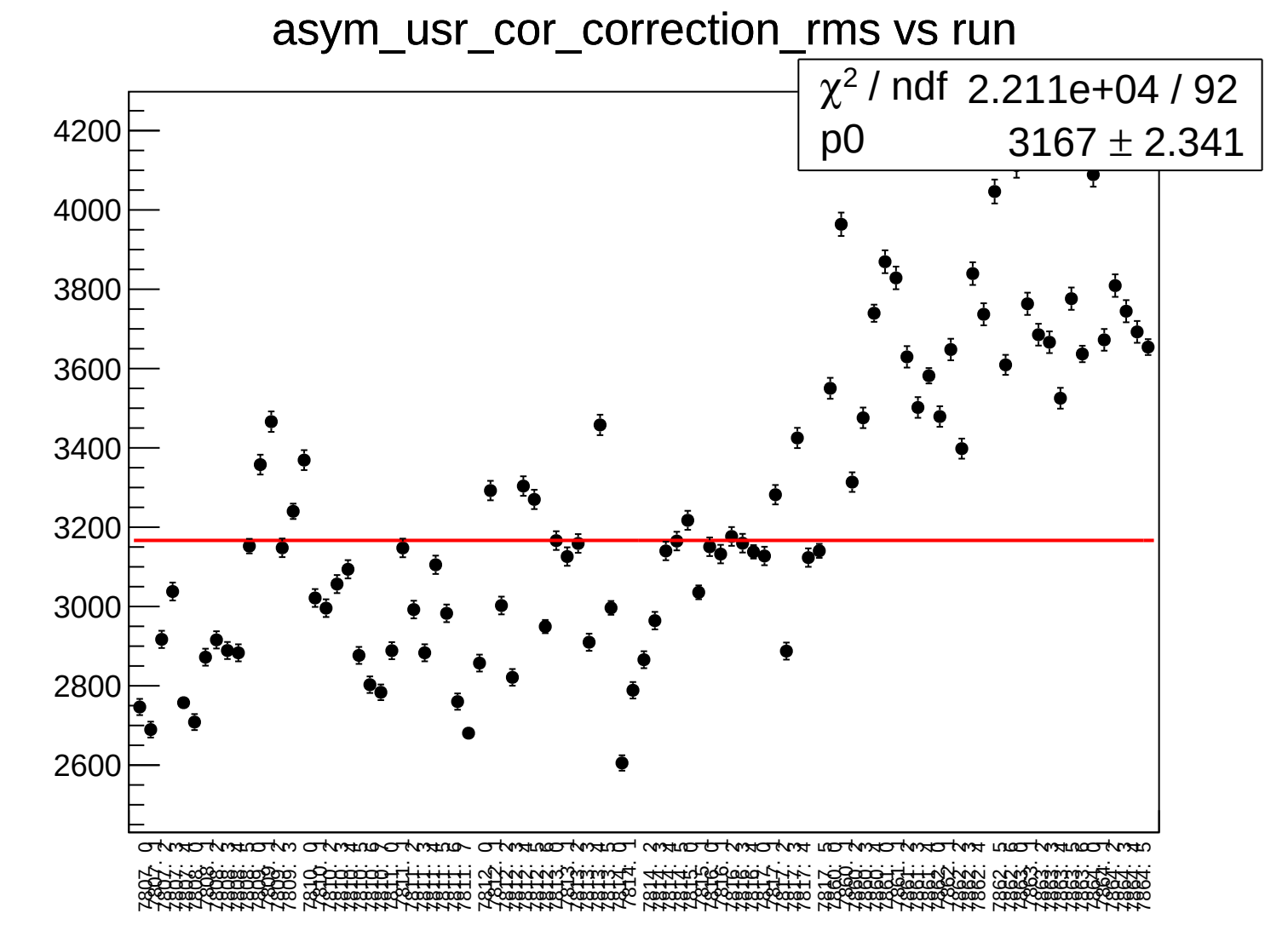

cor_asym_usr_mean vs run
χ² / ndf 92.51 / 92
p0 −1673 ± 1121
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean 788.9
Std Dev 0
2
1
0
−1
−2

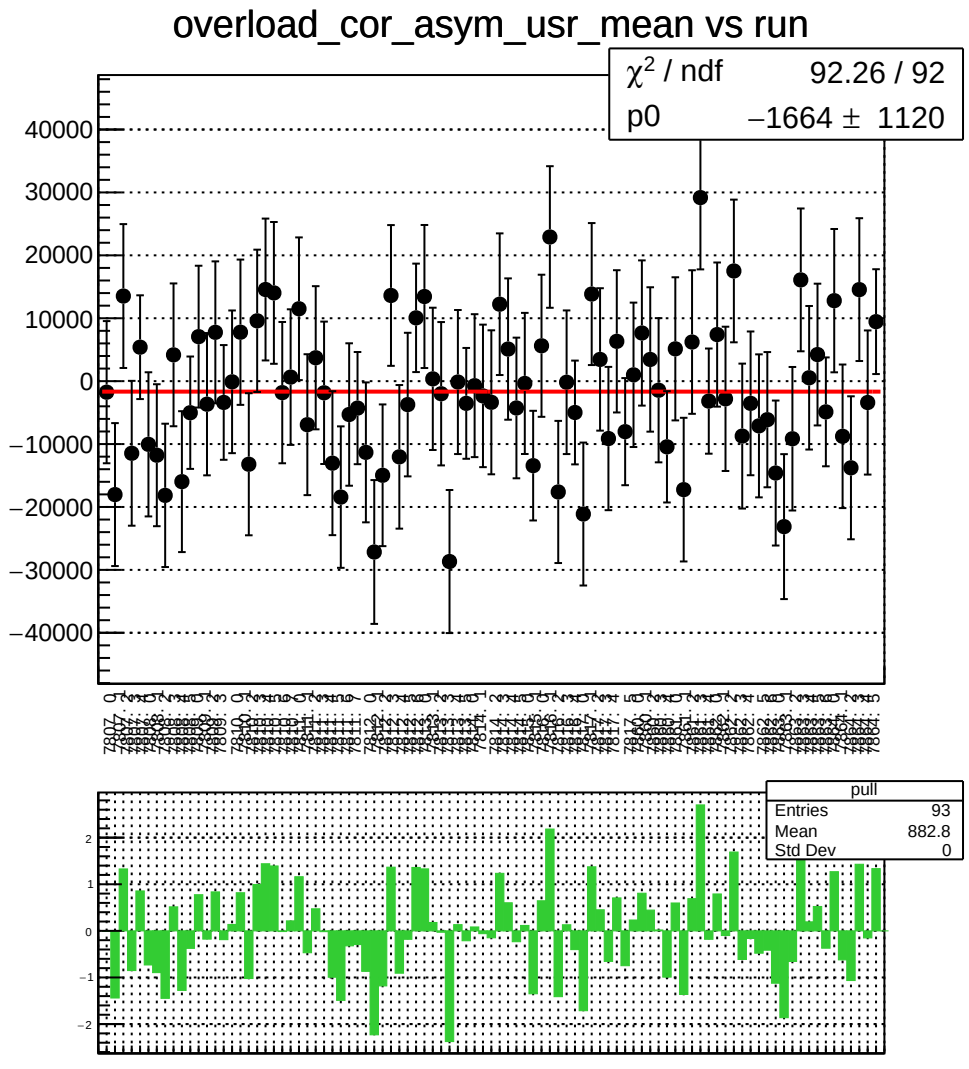

pull1D
Entries 93
Mean 0.002907
Std Dev 0.9974
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

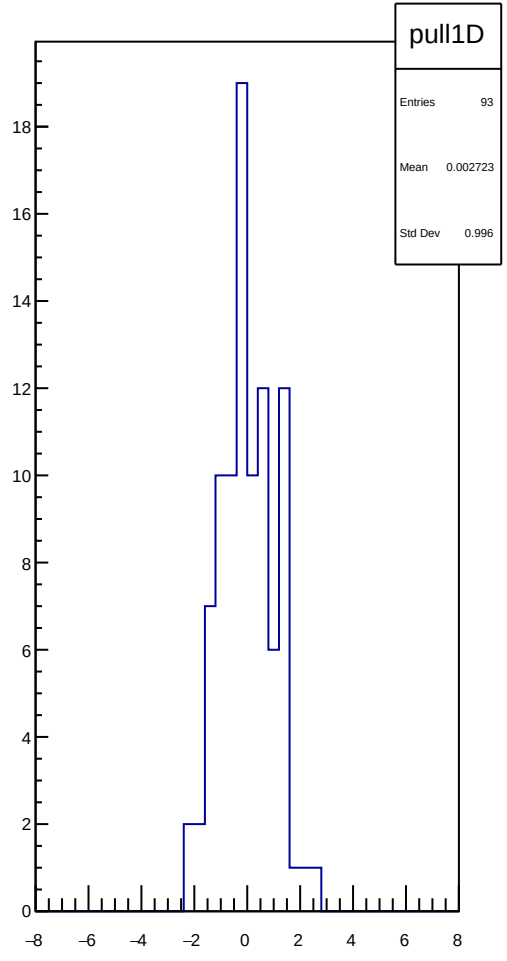

cor_asym_usr_rms vs run
χ² / ndf 104.7 / 92
p0 1079 ± 0.7928
1110
1100
1090
1080
1070
1060
1050

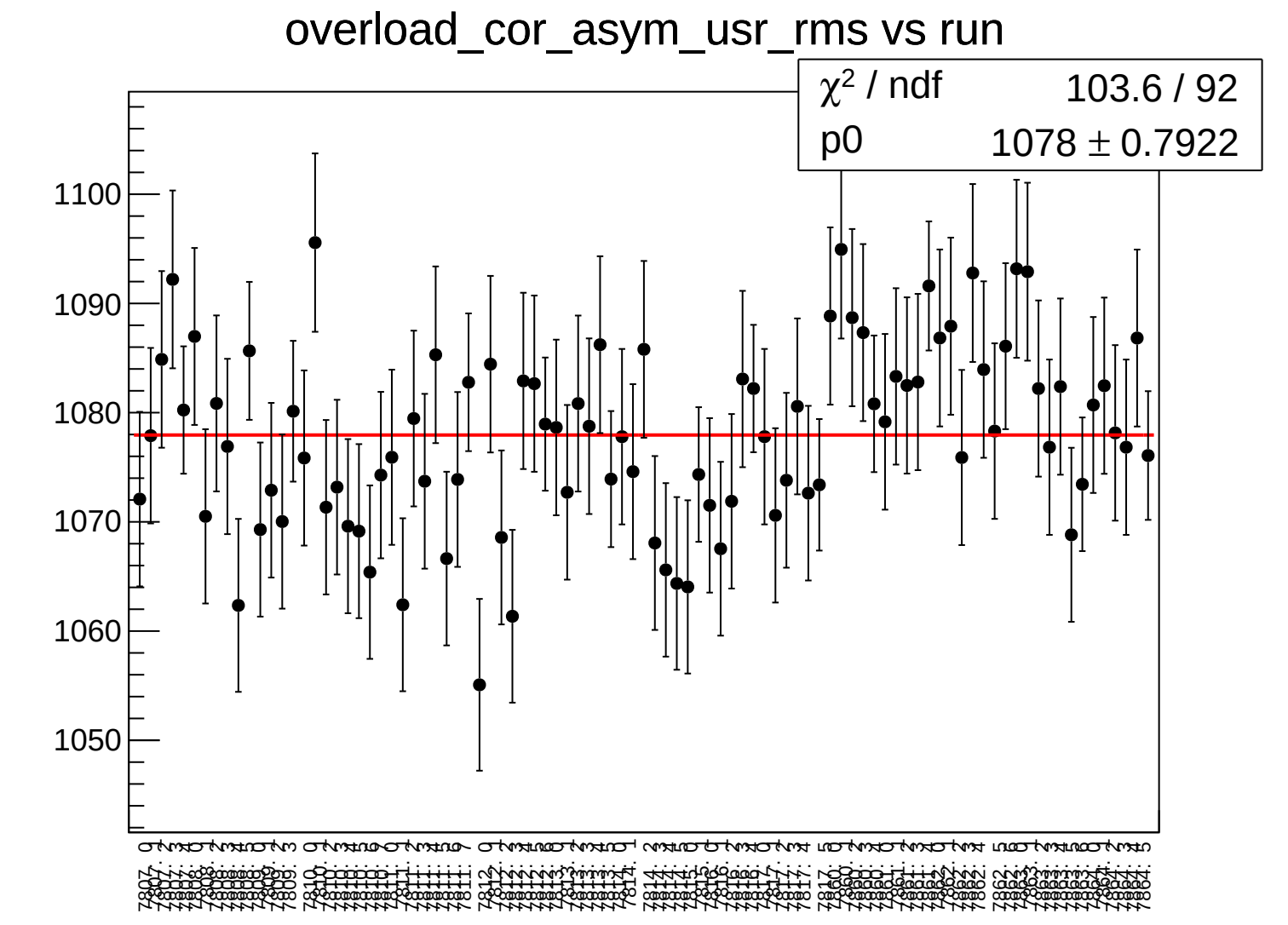

asym_usr_cor_correction_mean vs run
×10^3
χ² / ndf 84.21 / 92
p0 2232 ± 3311
100
50
0
−50
−100
−150
pull
Entries 93
Mean −29.48
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

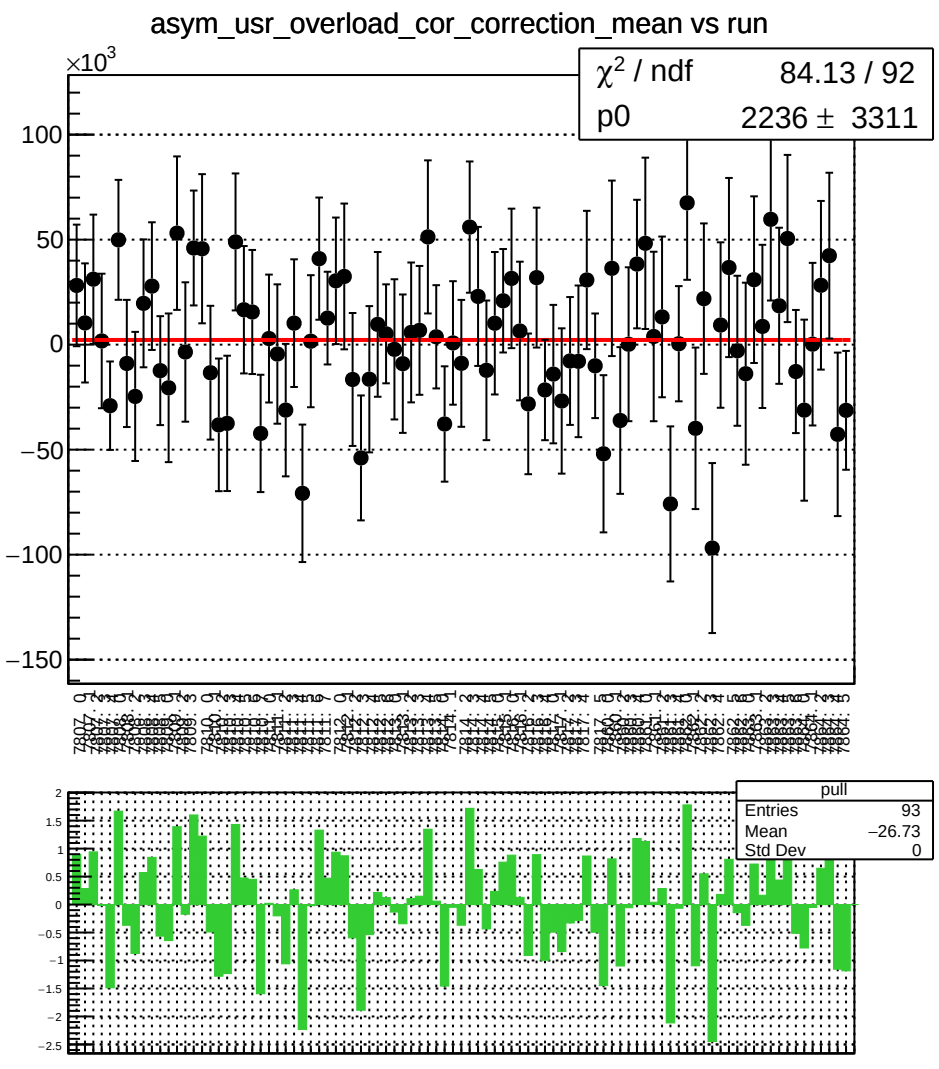

pull1D
Entries 93
Mean 0.01453
Std Dev 0.9514
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

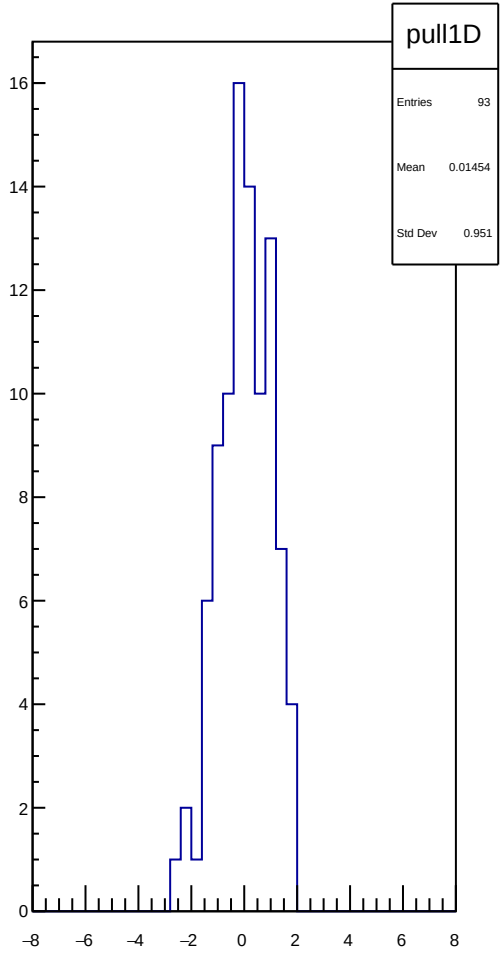

asym_usr_cor_correction_rms vs run
χ² / ndf 2.211e+04 / 92
p0 3167 ± 2.341
4200
4000
3800
3600
3400
3200
3000
2800
2600

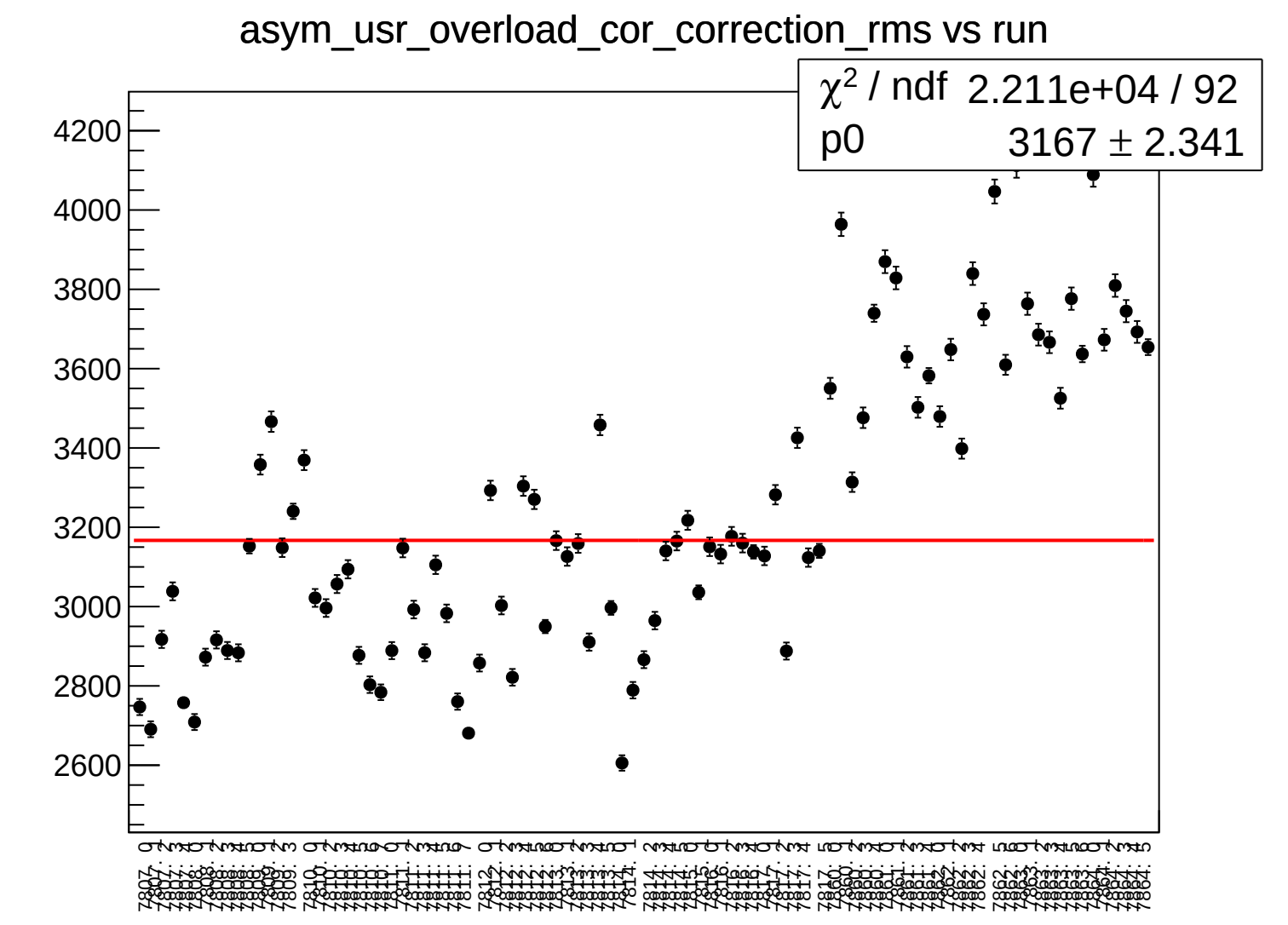

overload_cor_asym_usr_mean vs run
χ² / ndf 92.26 / 92
p0 −1664 ± 1120
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean 882.8
Std Dev 0
2
1
0
−1
−2

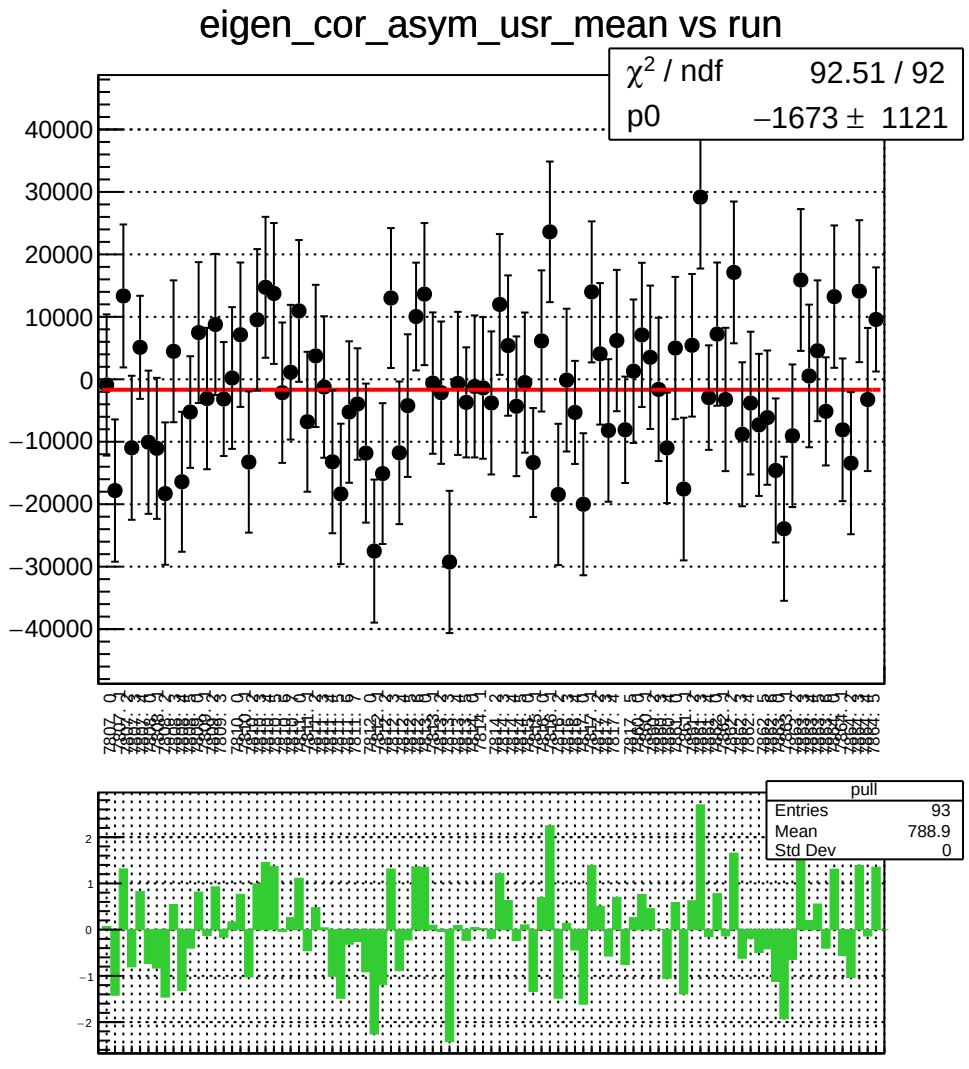

pull1D
Entries 93
Mean 0.002723
Std Dev 0.996
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

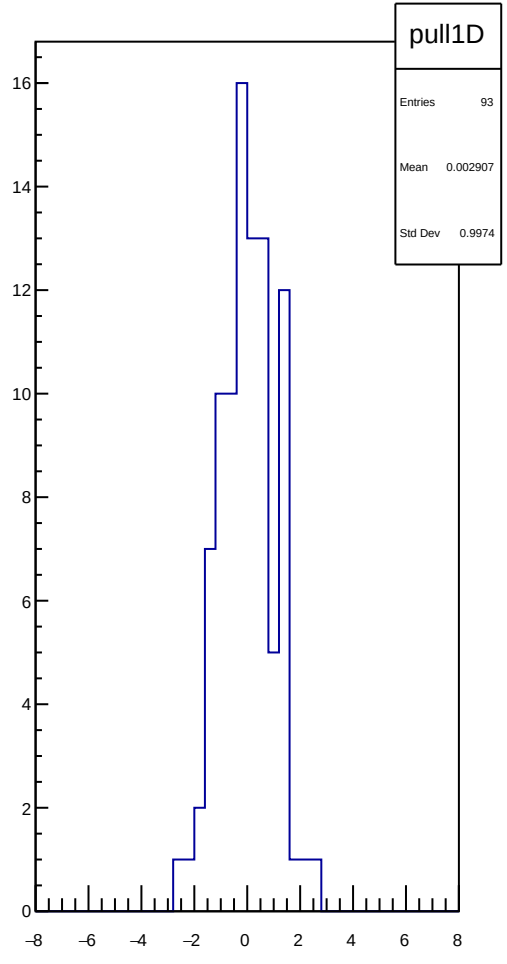

overload_cor_asym_usr_rms vs run
χ² / ndf 103.6 / 92
p0 1078 ± 0.7922
1100
1090
1080
1070
1060
1050

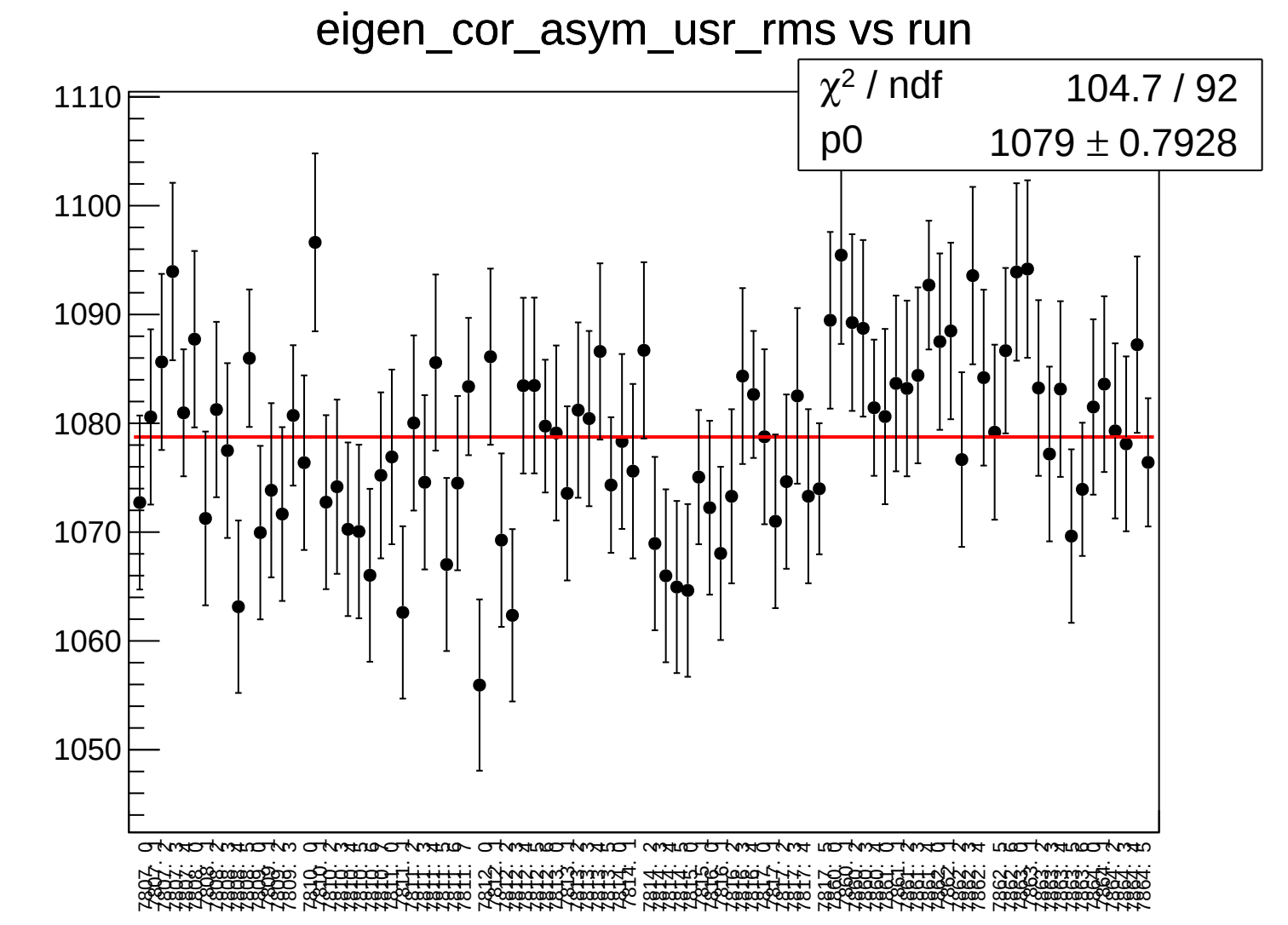

asym_usr_overload_cor_correction_mean vs run
×10^3
χ^2 / ndf 84.13 / 92
p0 2236 ± 3311
100
50
0
−50
−100
−150
pull
Entries 93
Mean −26.73
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

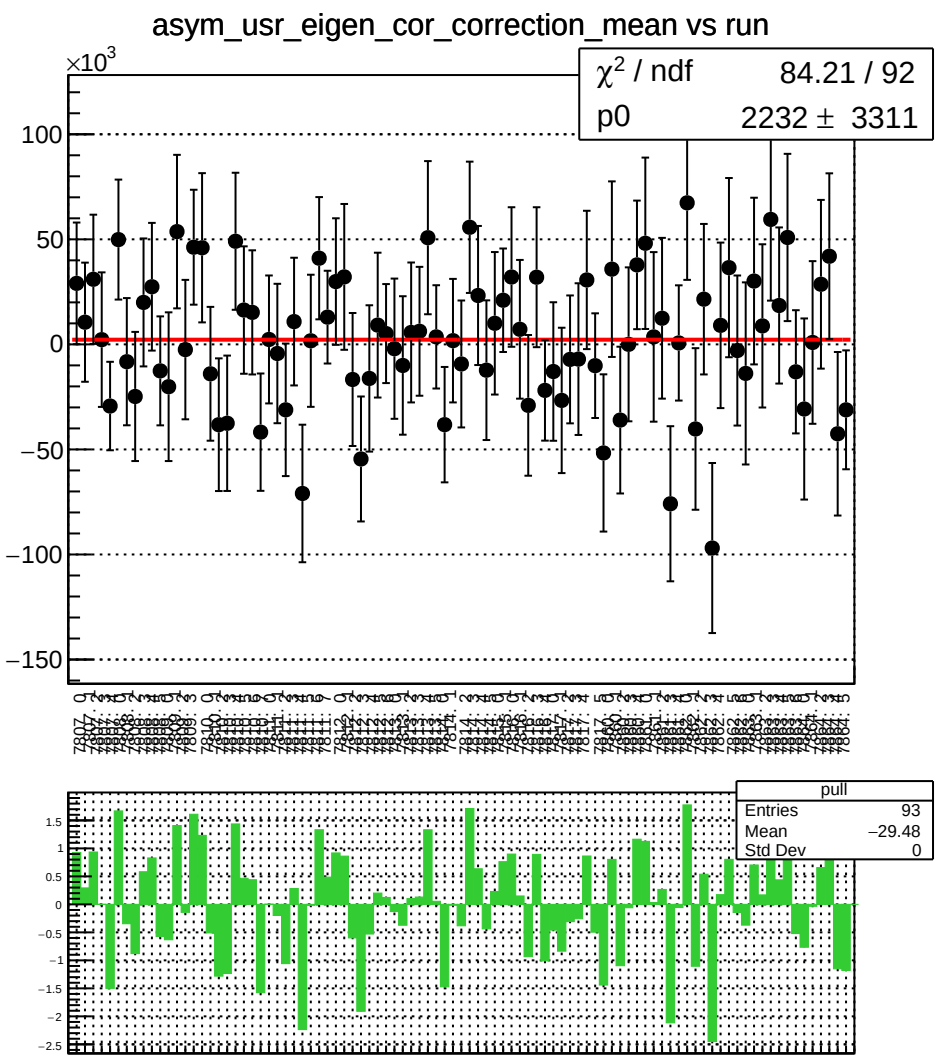

pull1D
Entries 93
Mean 0.01454
Std Dev 0.951
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

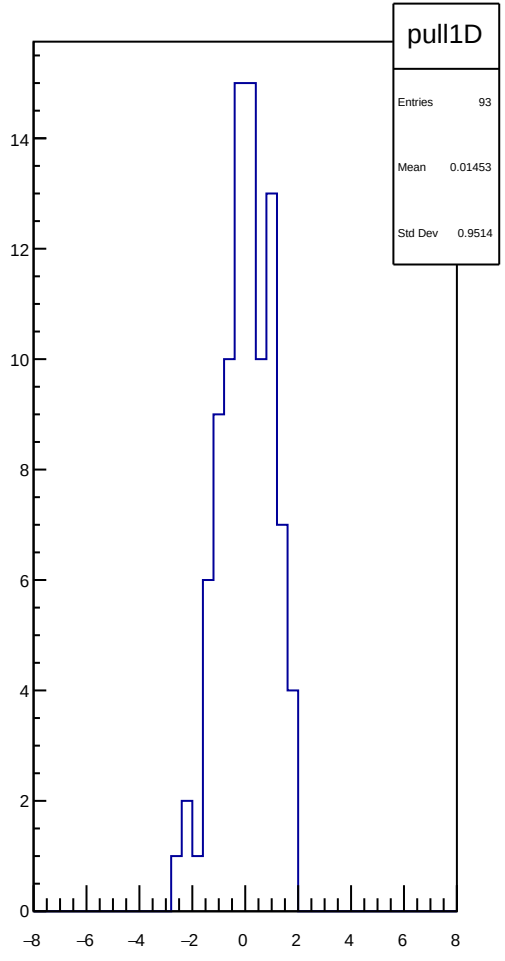

asym_usr_overload_cor_correction_rms vs run
χ² / ndf 2.211e+04 / 92
p0 3167 ± 2.341
4200
4000
3800
3600
3400
3200
3000
2800
2600

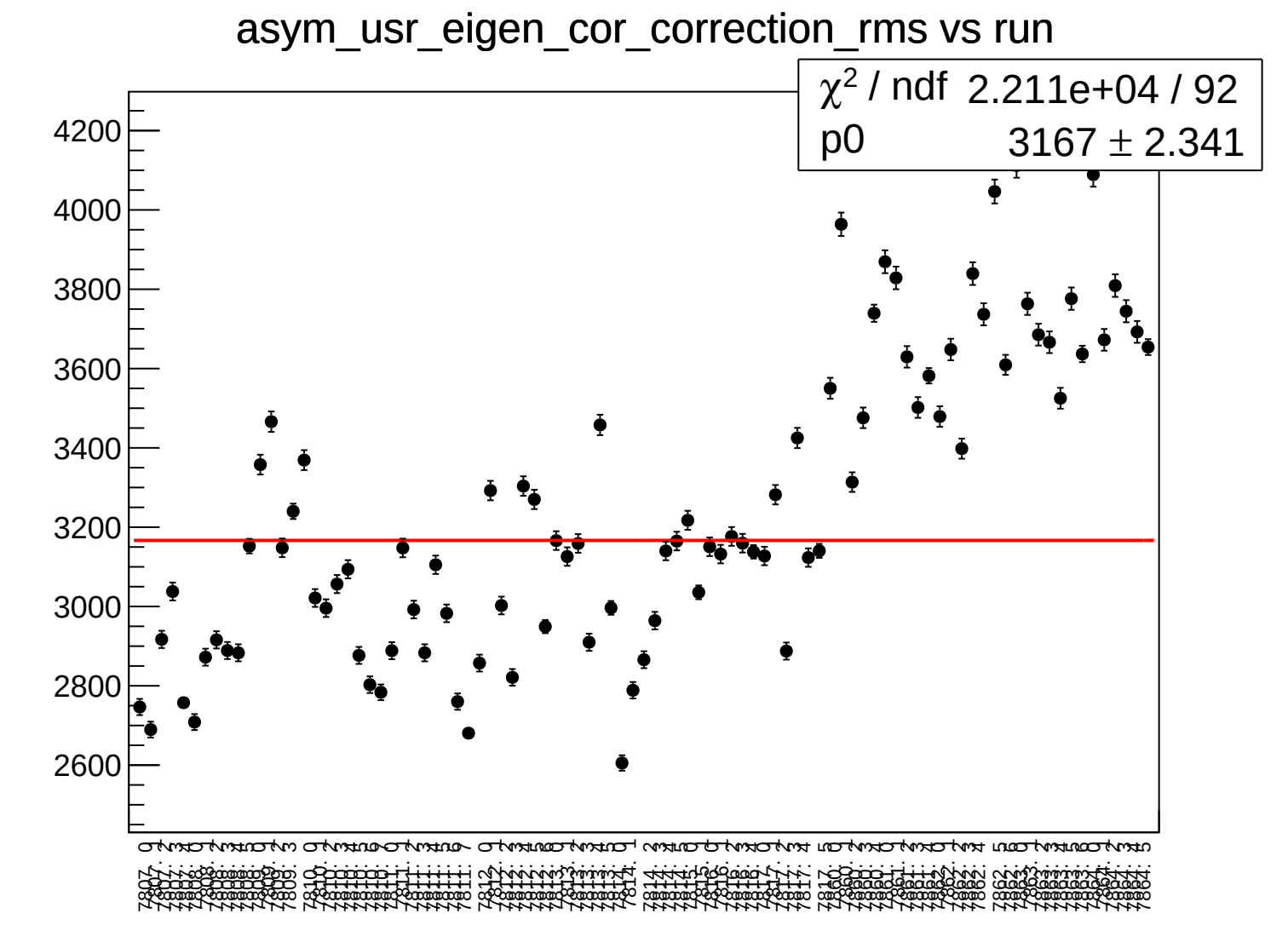

eigen_cor_asym_usr_mean vs run
χ² / ndf 92.51 / 92
p0 −1673 ± 1121
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean 788.9
Std Dev 0
2
1
0
−1
−2

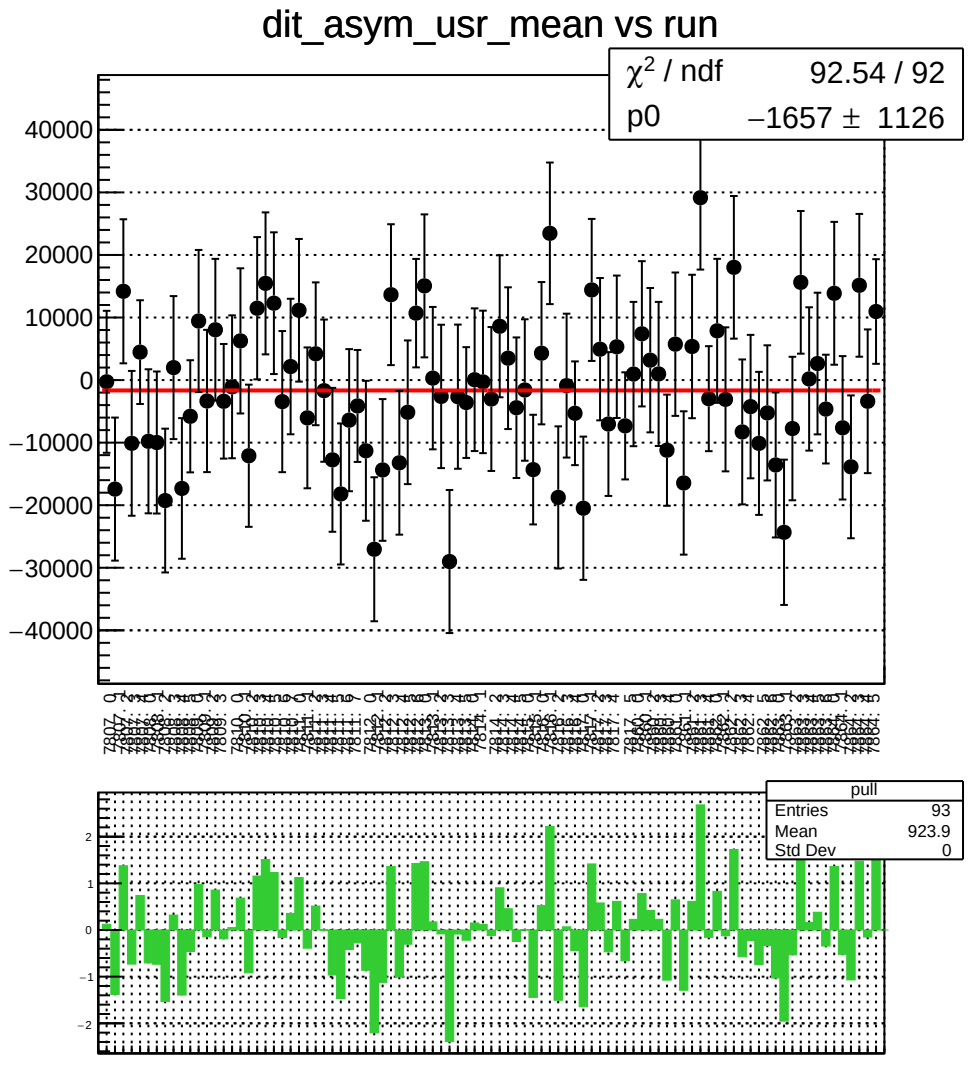

pull1D
Entries 93
Mean 0.002907
Std Dev 0.9974
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

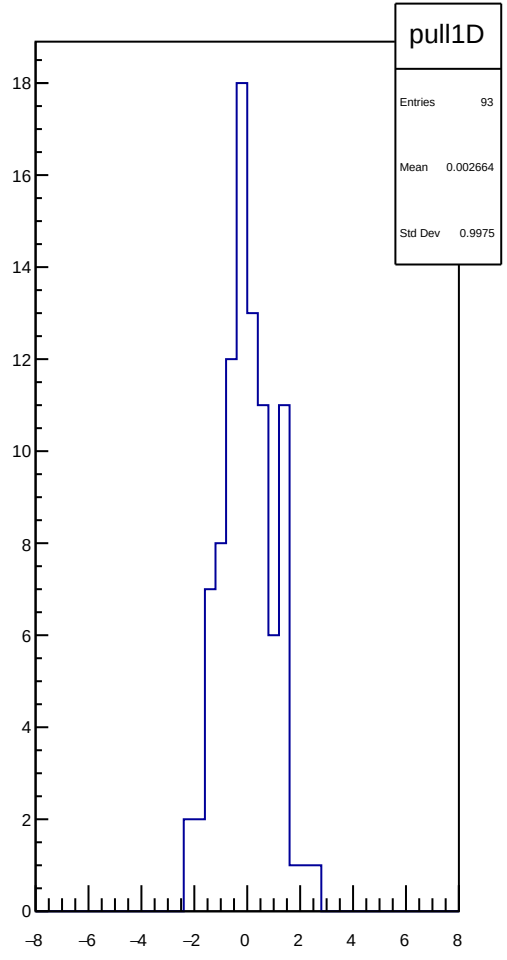

eigen_cor_asym_usr_rms vs run
χ² / ndf 104.7 / 92
p0 1079 ± 0.7928
1110
1100
1090
1080
1070
1060
1050

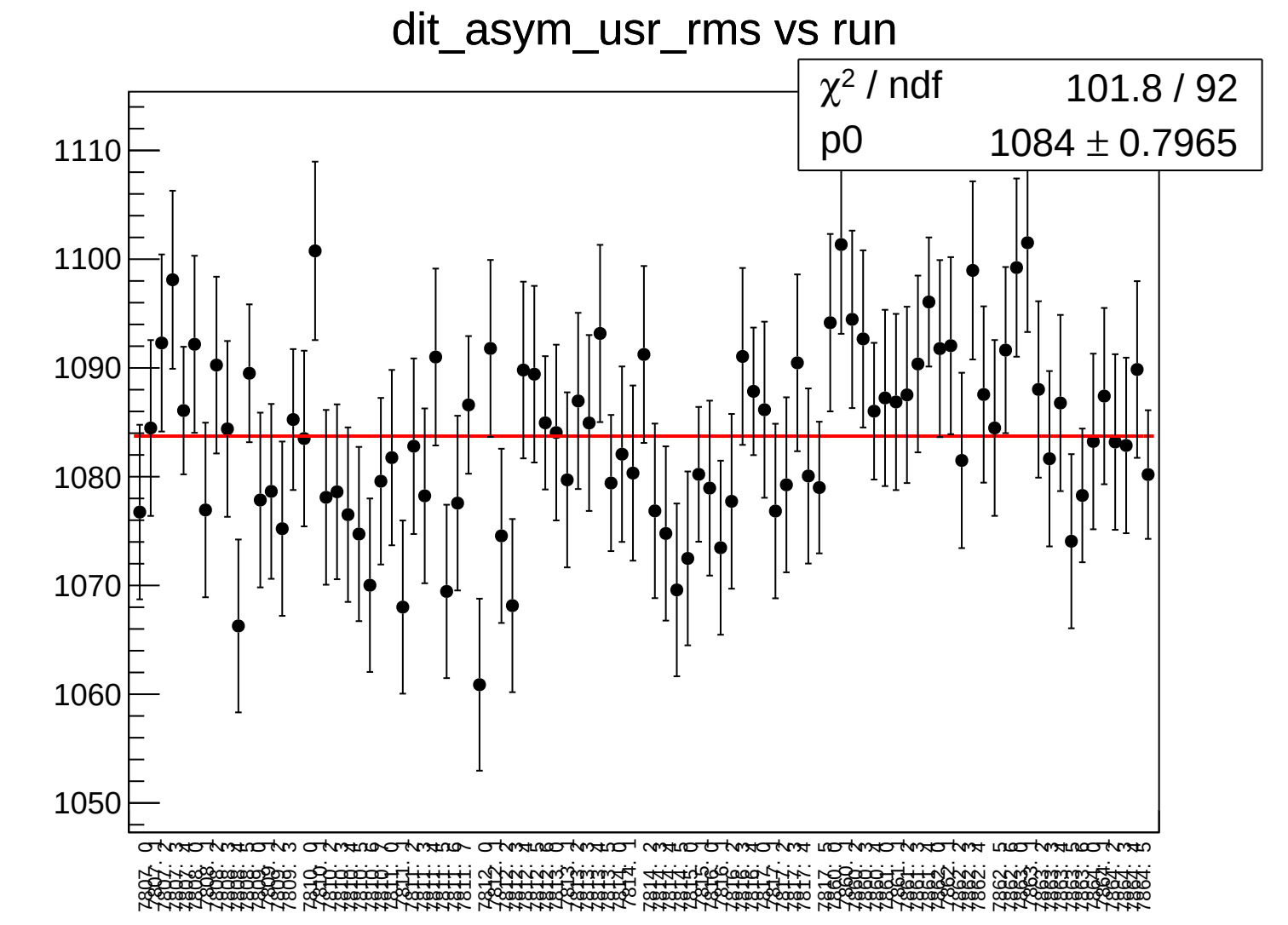

asym_usr_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 84.21 / 92
p0 2232 ± 3311
100
50
0
−50
−100
−150
pull
Entries 93
Mean −29.48
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

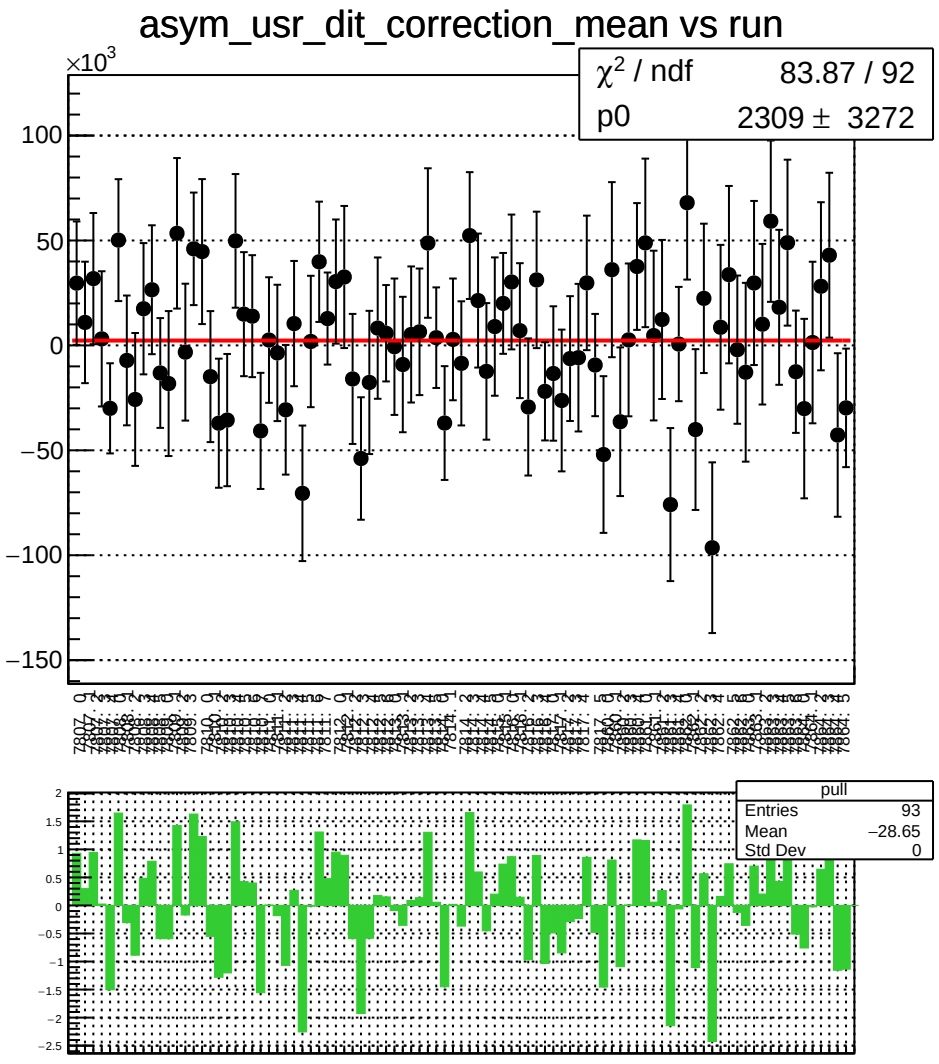

pull1D
Entries 93
Mean 0.01453
Std Dev 0.9514
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

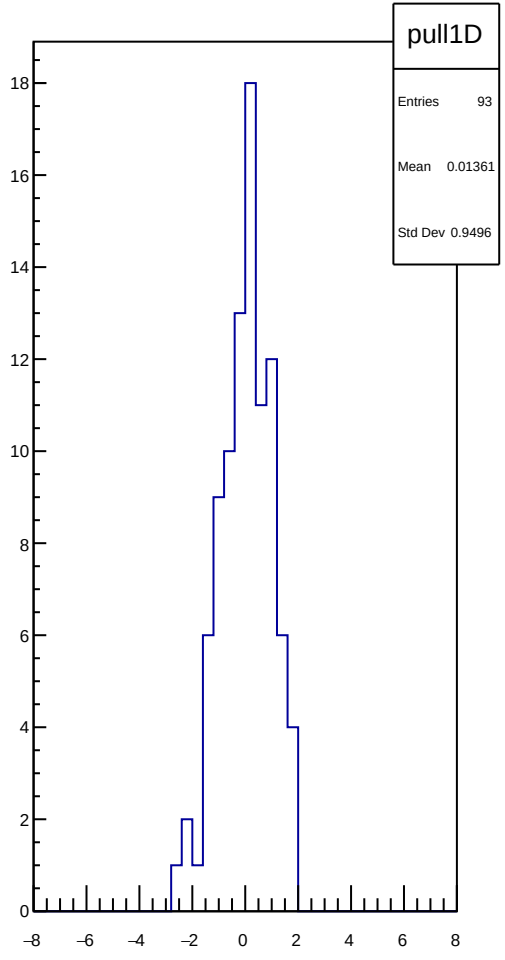

asym_usr_eigen_cor_correction_rms vs run
χ^2 / ndf 2.211e+04 / 92
p0 3167 ± 2.341
4200
4000
3800
3600
3400
3200
3000
2800
2600

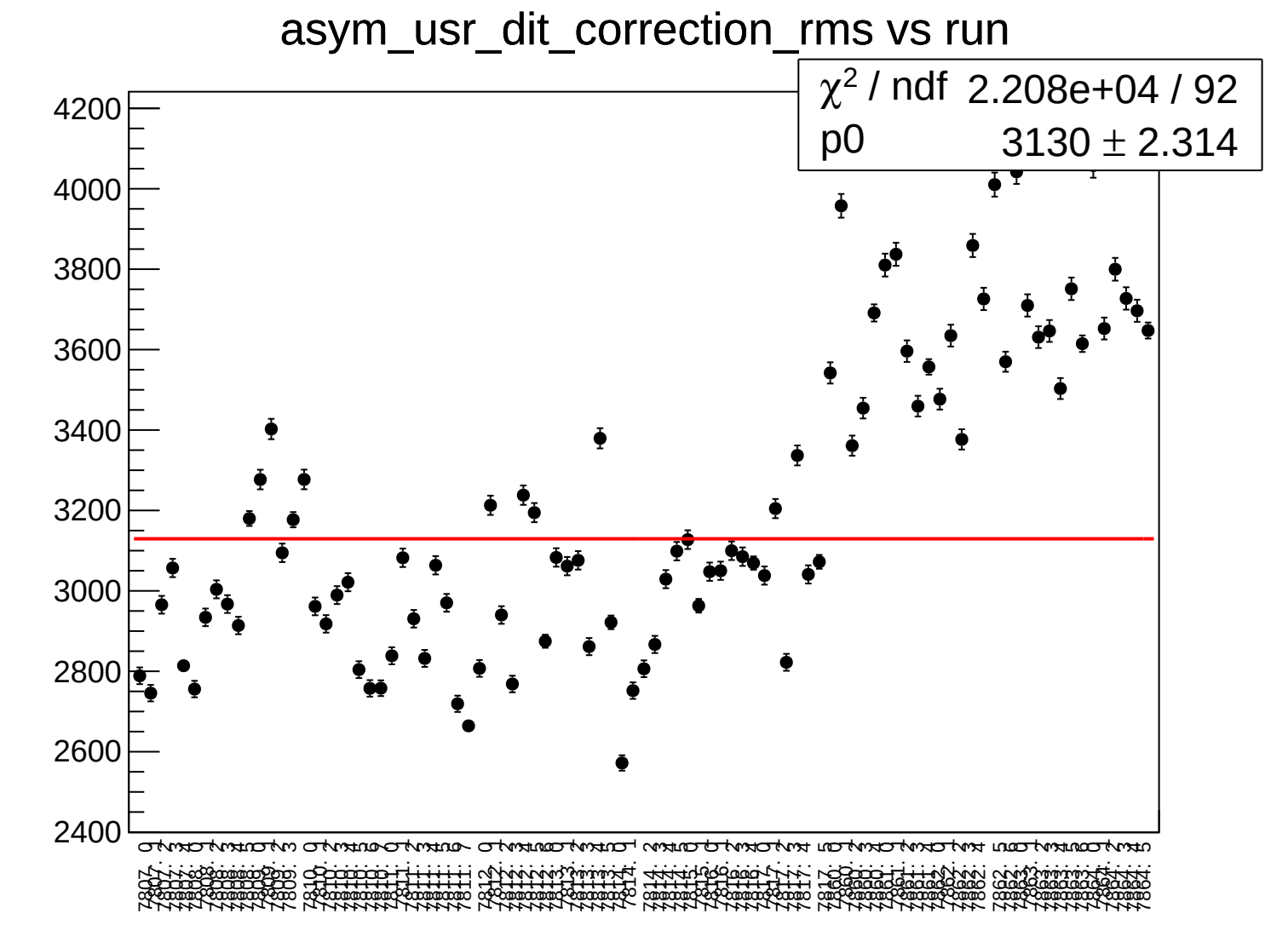

dit_asym_usr_mean vs run
χ² / ndf 92.54 / 92
p0 −1657 ± 1126
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean 923.9
Std Dev 0
2
1
0
−1
−2

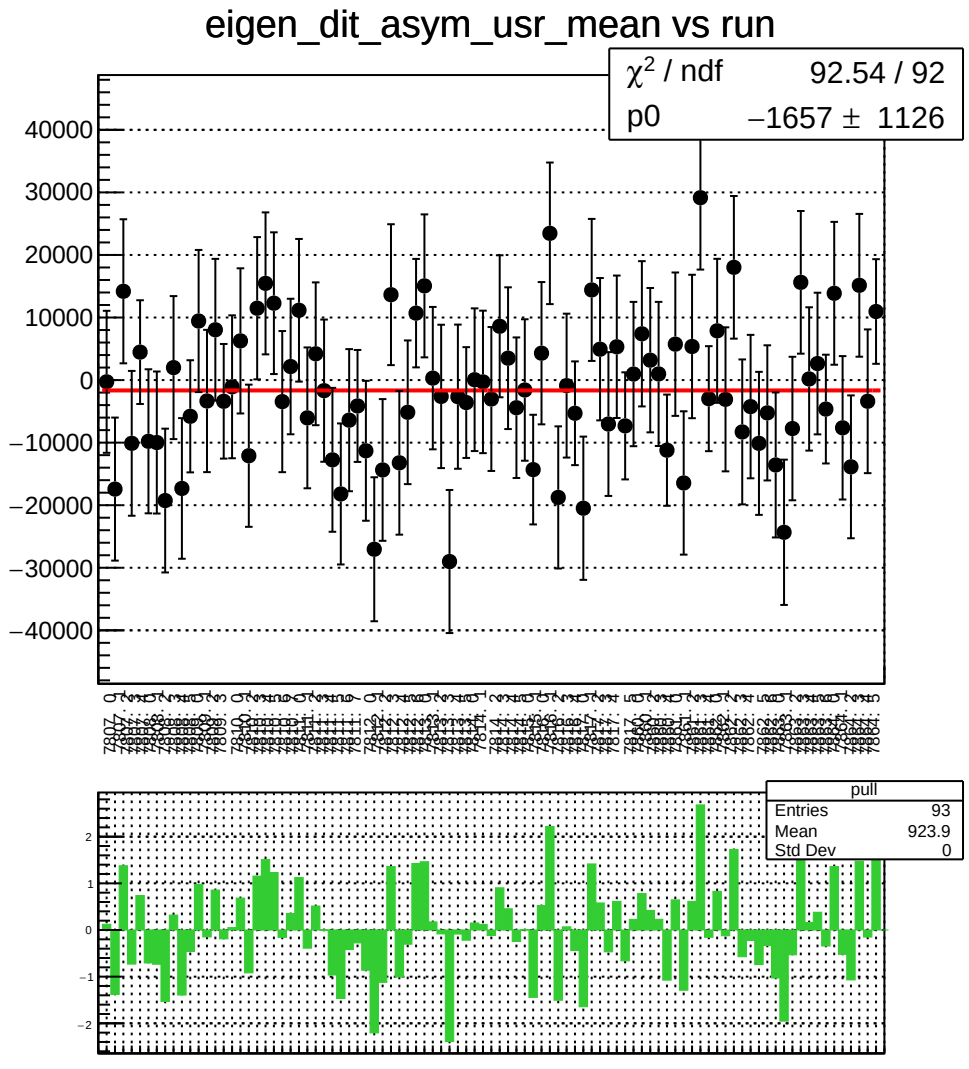

pull1D
Entries 93
Mean 0.002664
Std Dev 0.9975
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

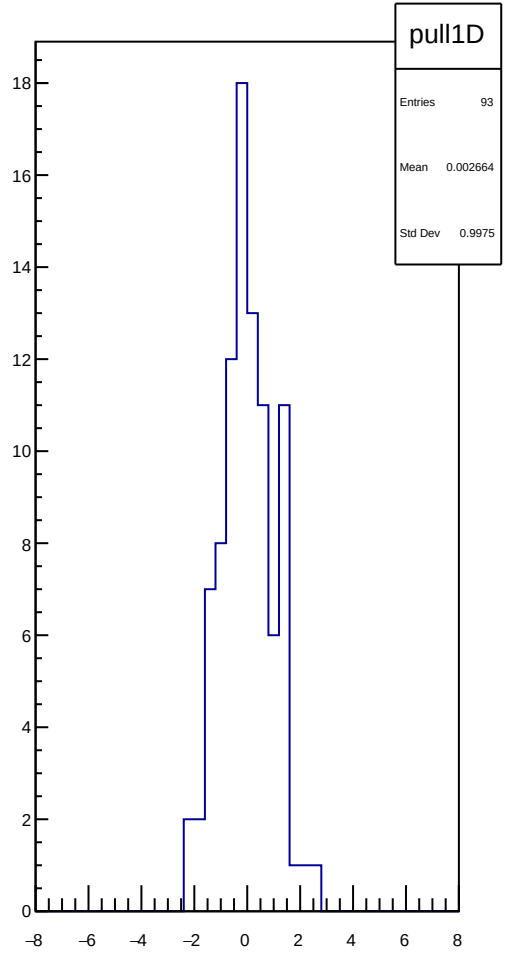

dit_asym_usr_rms vs run
χ² / ndf 101.8 / 92
p0 1084 ± 0.7965
1110
1100
1090
1080
1070
1060
1050

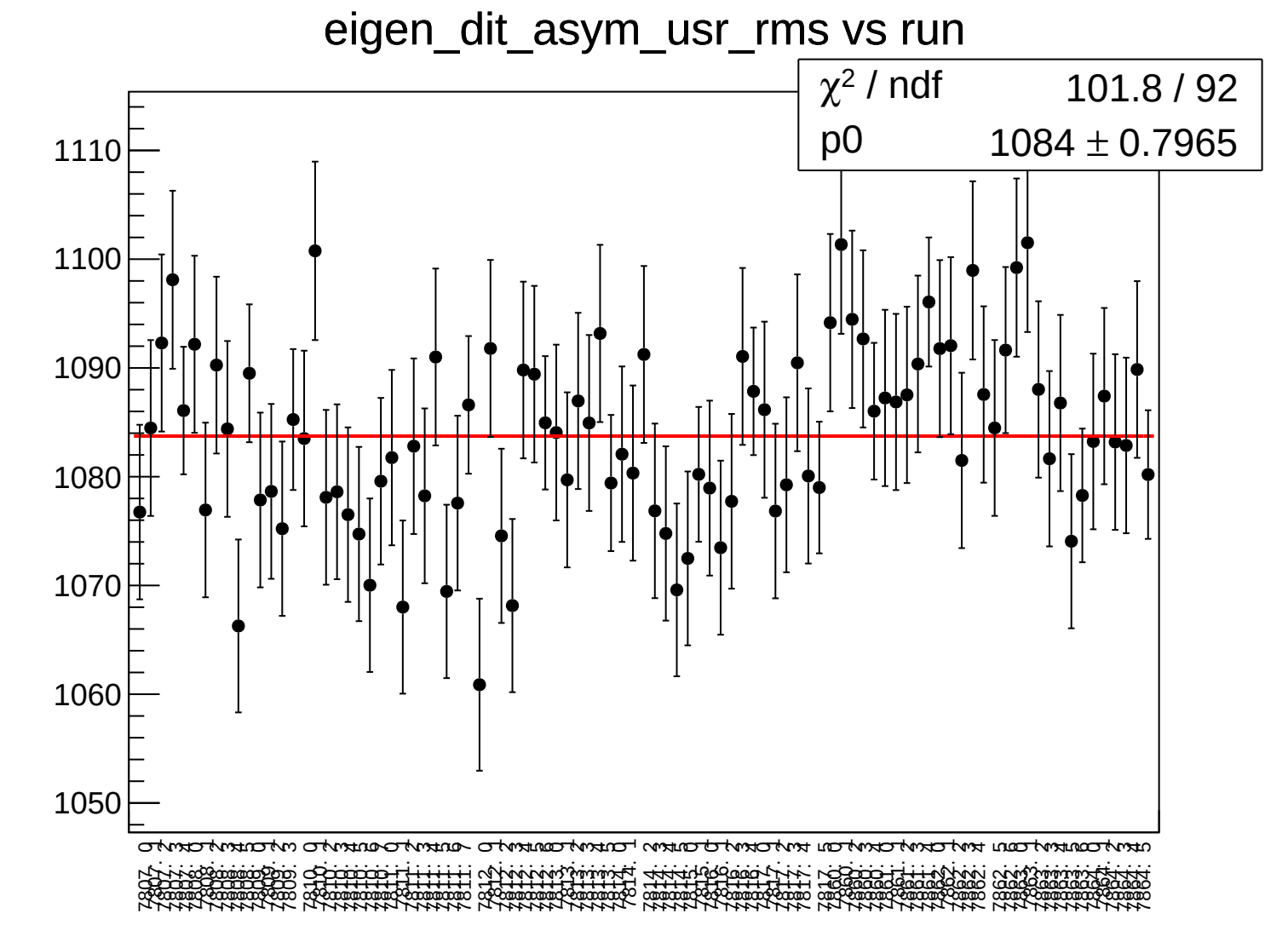

asym_usr_dit_correction_mean vs run
×10^3
χ^2 / ndf 83.87 / 92
p0 2309 ± 3272
100
50
0
−50
−100
−150
pull
Entries 93
Mean −28.65
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

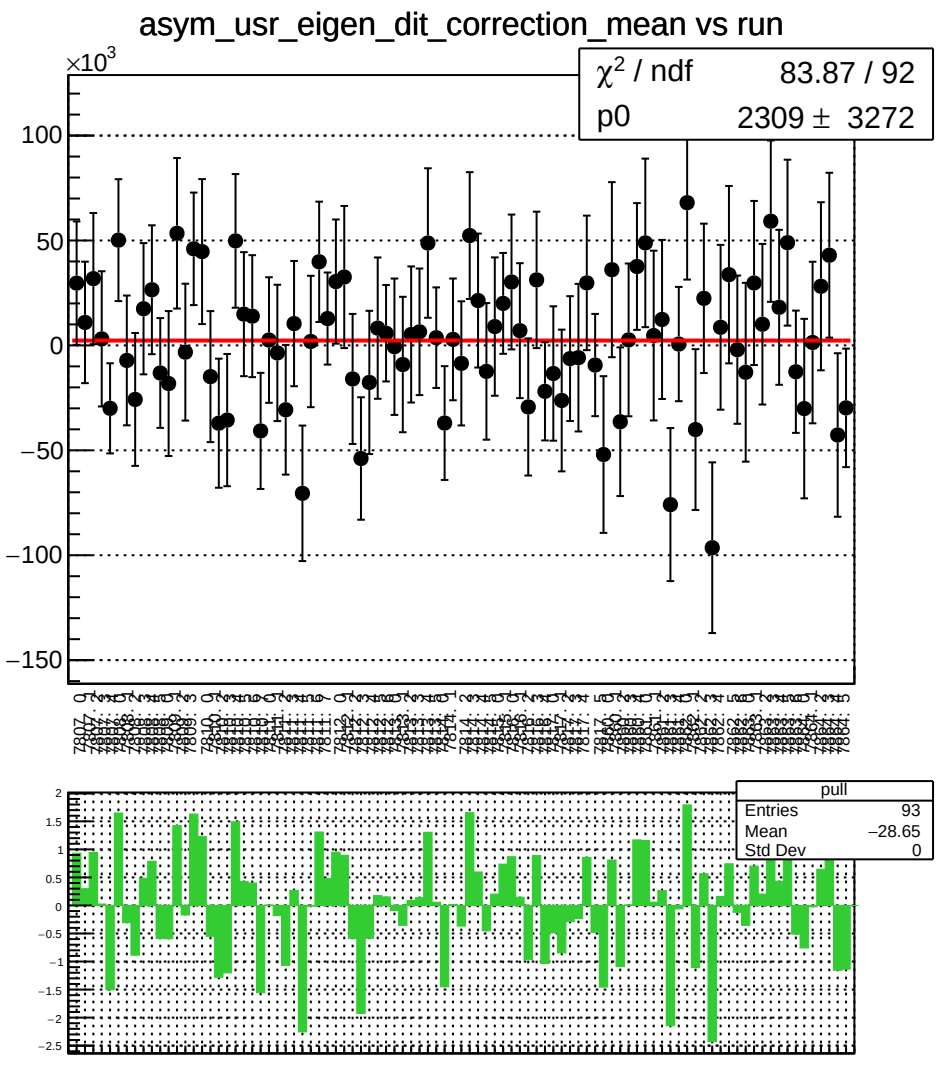

pull1D
Entries 93
Mean 0.01361
Std Dev 0.9496
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

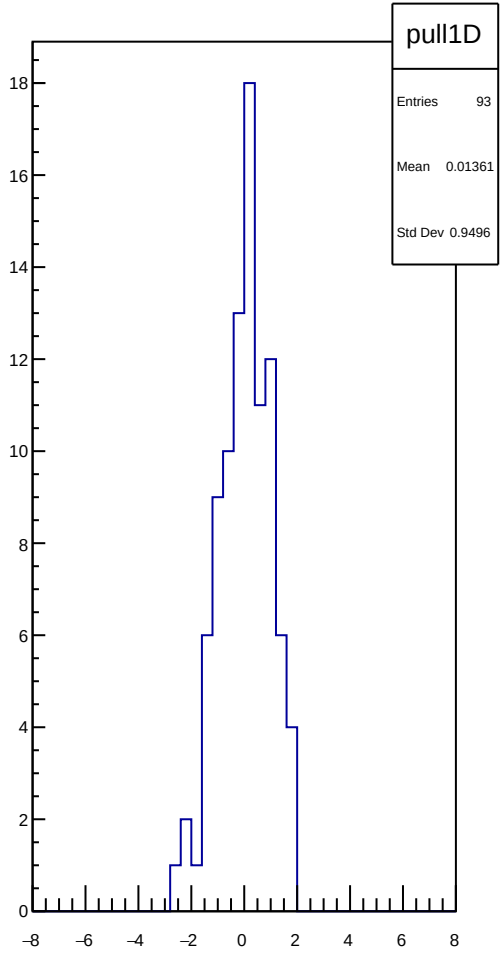

asym_usr_dit_correction_rms vs run
χ² / ndf 2.208e+04 / 92
p0 3130 ± 2.314
4200
4000
3800
3600
3400
3200
3000
2800
2600
2400

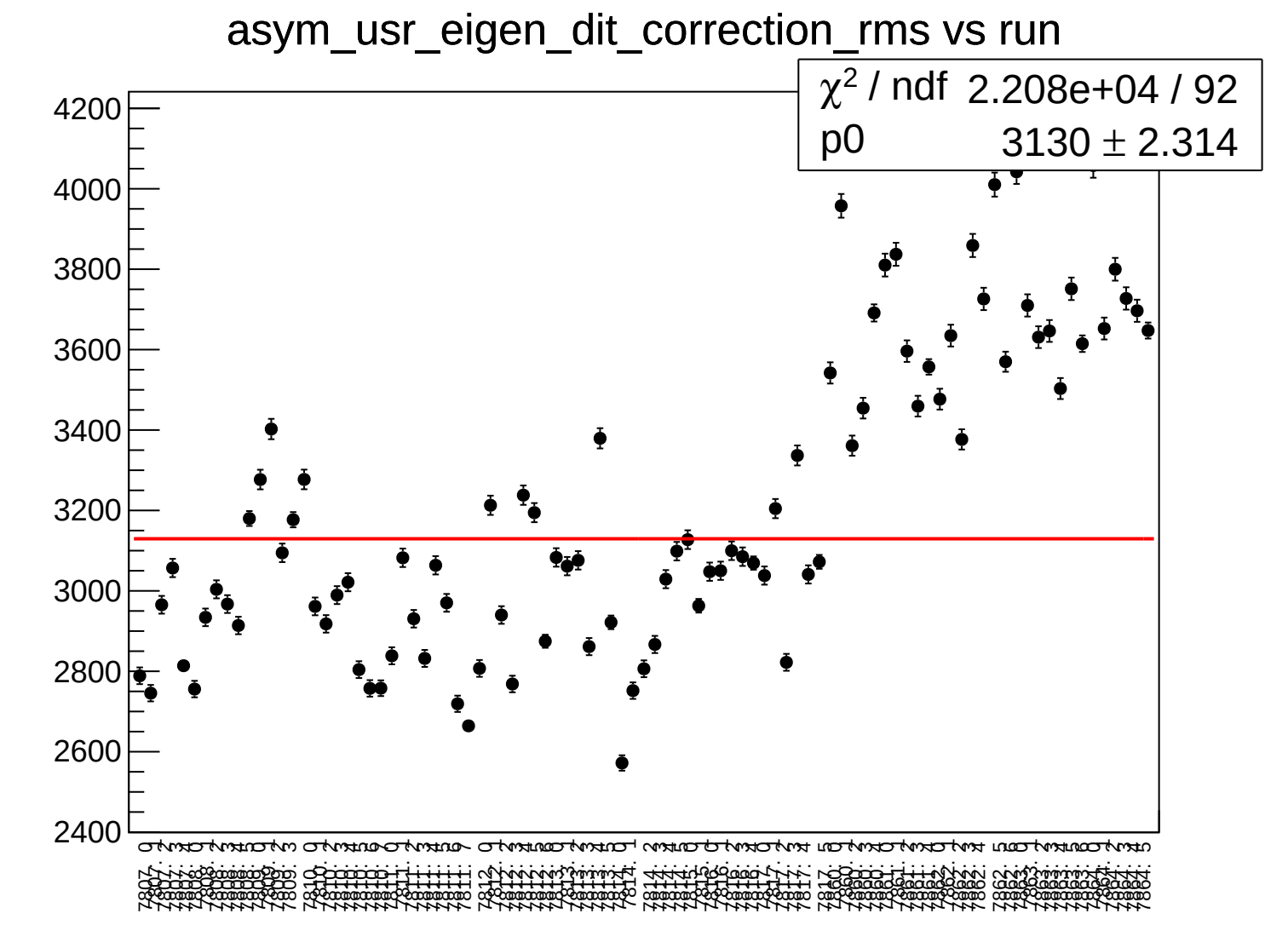

eigen_dit_asym_usr_mean vs run
χ² / ndf 92.54 / 92
p0 −1657 ± 1126
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean 923.9
Std Dev 0
2
1
0
−1
−2

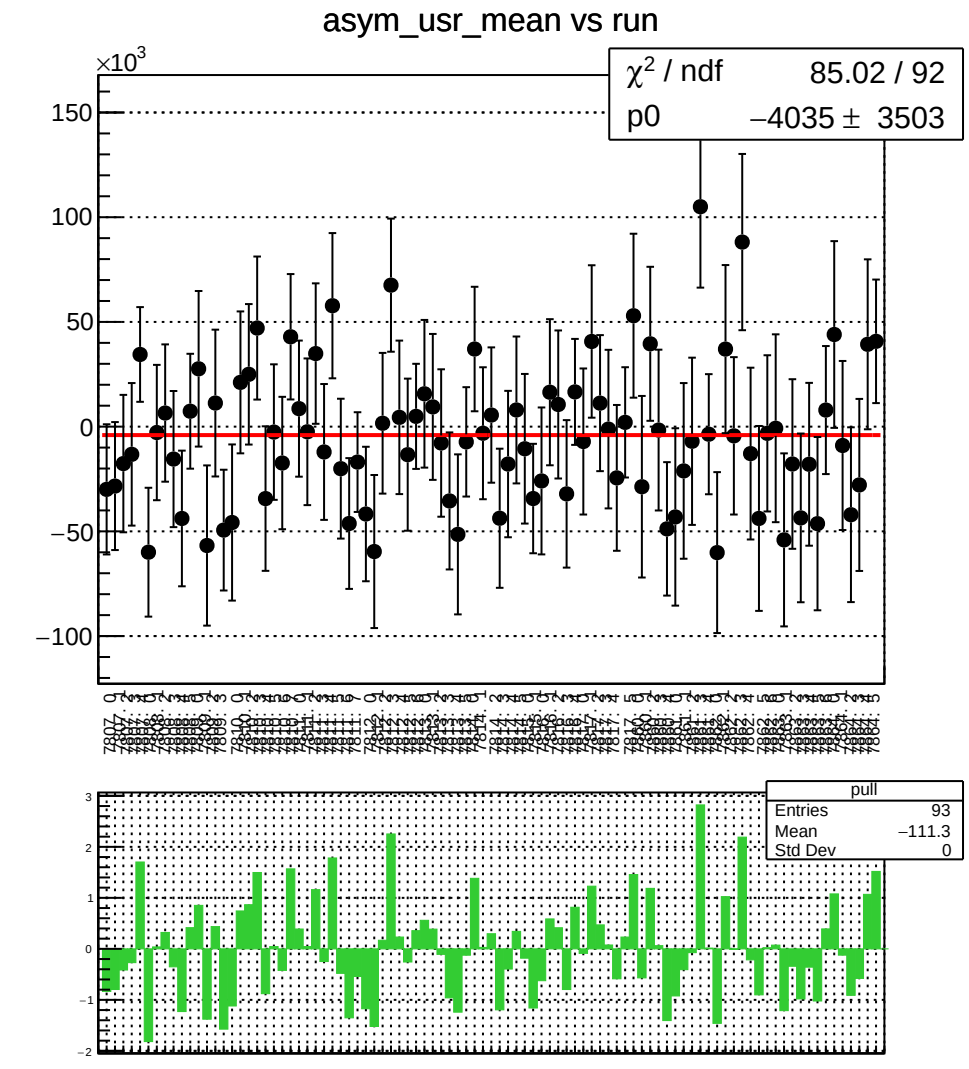

pull1D
Entries 93
Mean 0.002664
Std Dev 0.9975
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

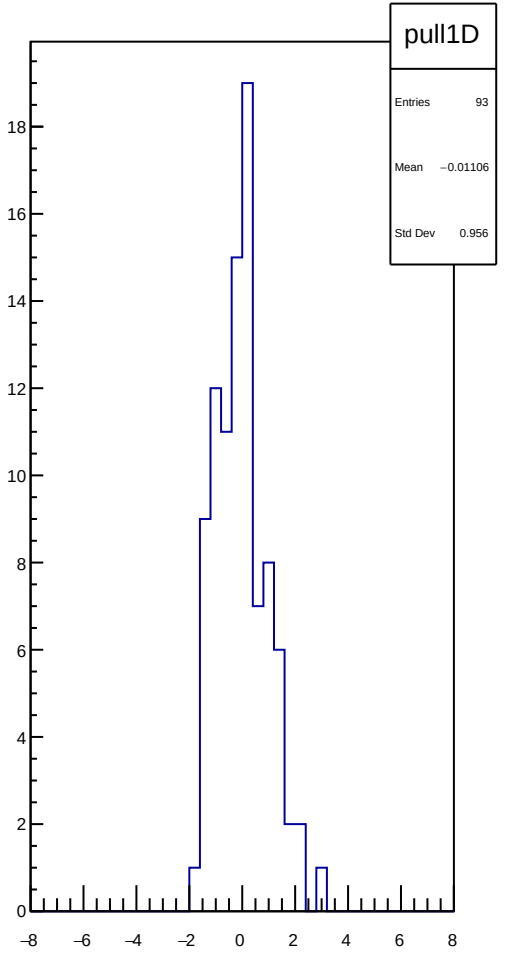

eigen_dit_asym_usr_rms vs run
χ² / ndf 101.8 / 92
p0 1084 ± 0.7965
1110
1100
1090
1080
1070
1060
1050

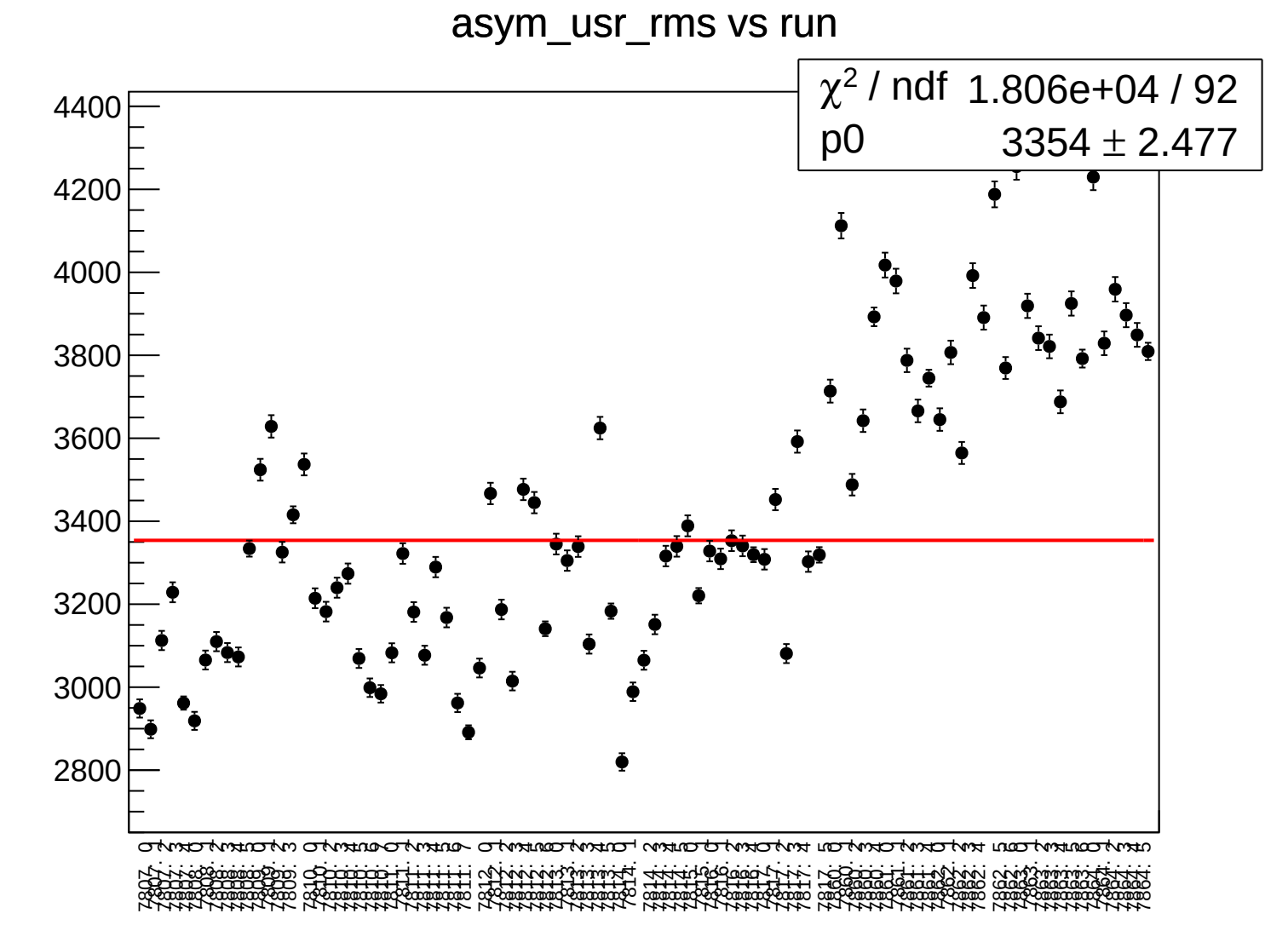

asym_usr_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 83.87 / 92
p0 2309 ± 3272
100
50
0
−50
−100
−150
pull
Entries 93
Mean −28.65
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

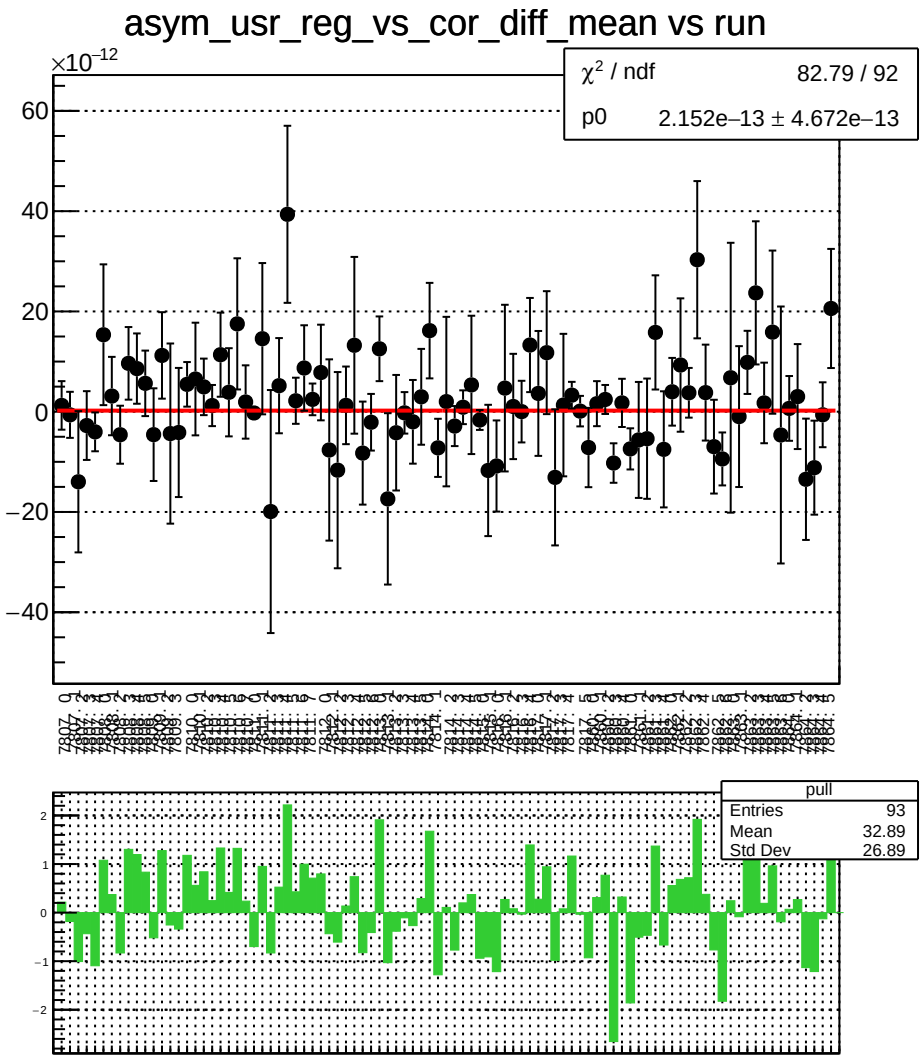

pull1D
Entries 93
Mean 0.01361
Std Dev 0.9496
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

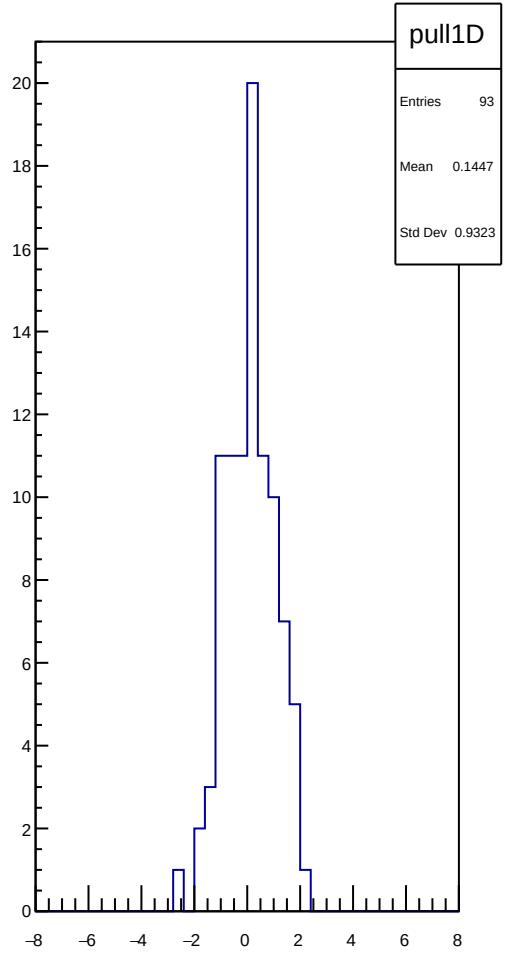

asym_usr_eigen_dit_correction_rms vs run
χ² / ndf 2.208e+04 / 92
p0 3130 ± 2.314
4200
4000
3800
3600
3400
3200
3000
2800
2600
2400

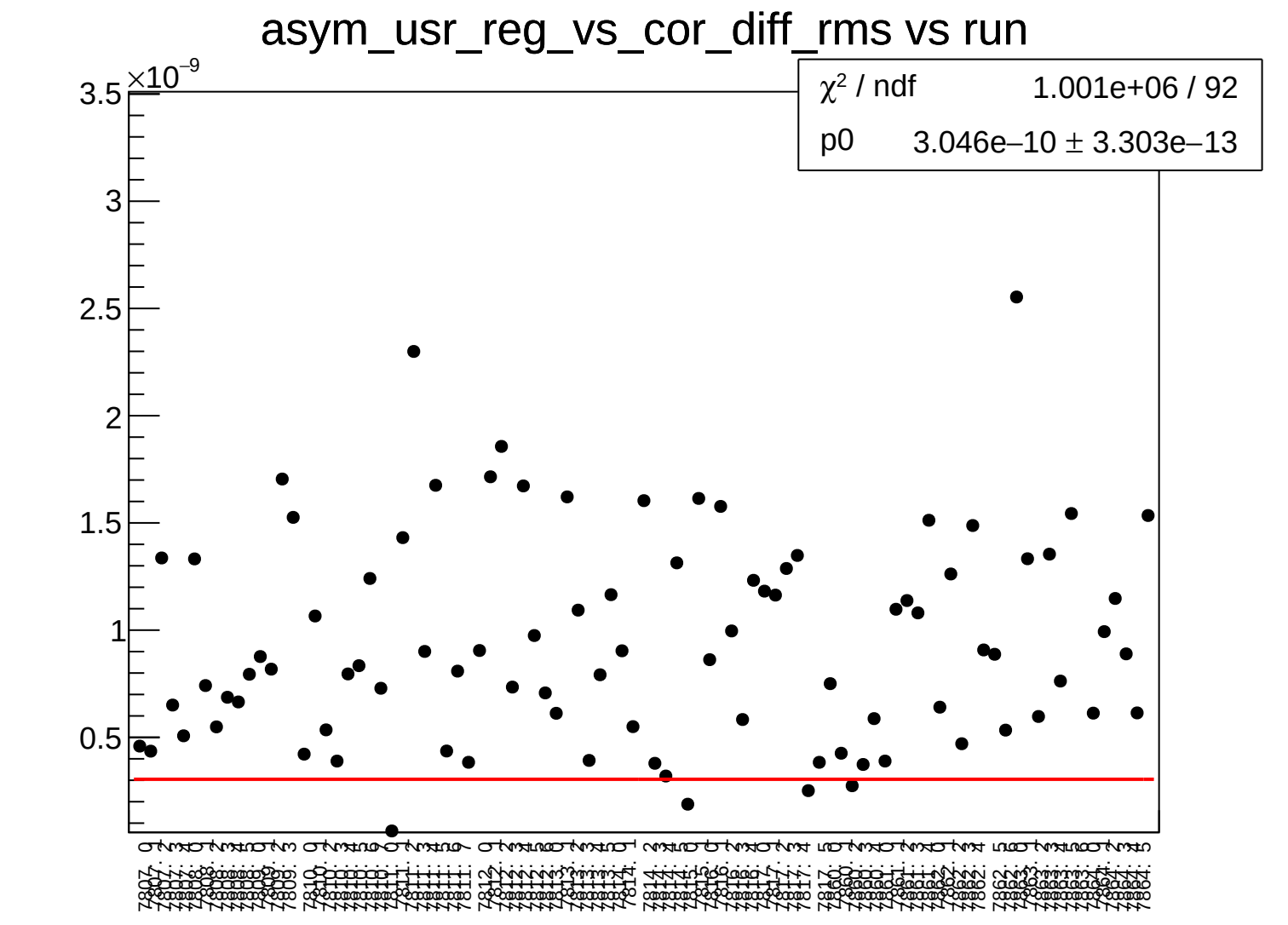

asym_usr_mean vs run
×10^3
χ² / ndf 85.02 / 92
p0 −4035 ± 3503
150
100
50
0
−50
−100
pull
Entries 93
Mean −111.3
Std Dev 0
3
2
1
0
−1
−2

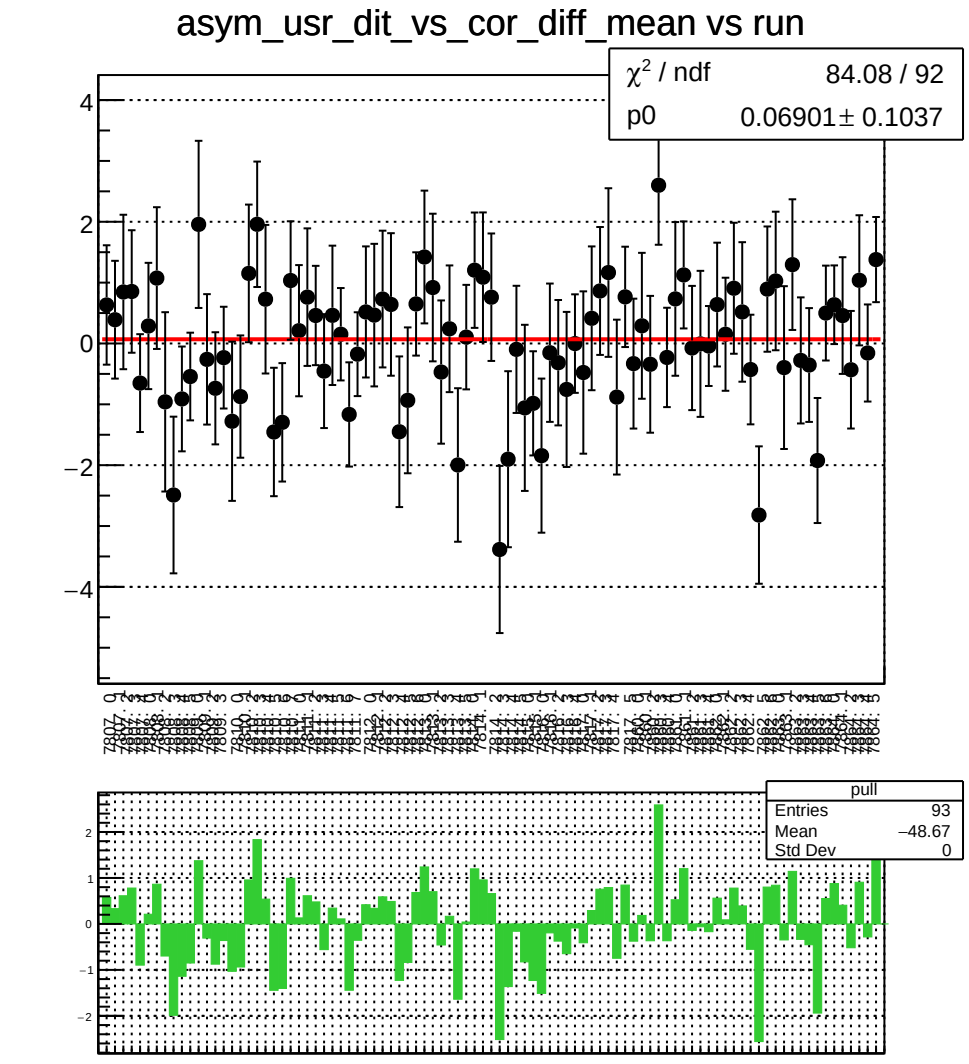

pull1D
Entries 93
Mean −0.01106
Std Dev 0.956
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

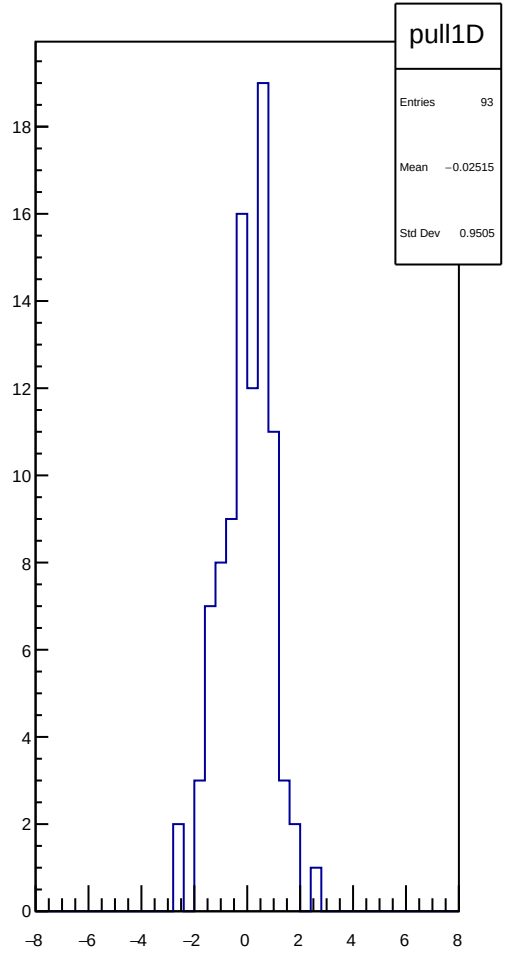

asym_usr_rms vs run
χ² / ndf 1.806e+04 / 92
p0 3354 ± 2.477
4400
4200
4000
3800
3600
3400
3200
3000
2800

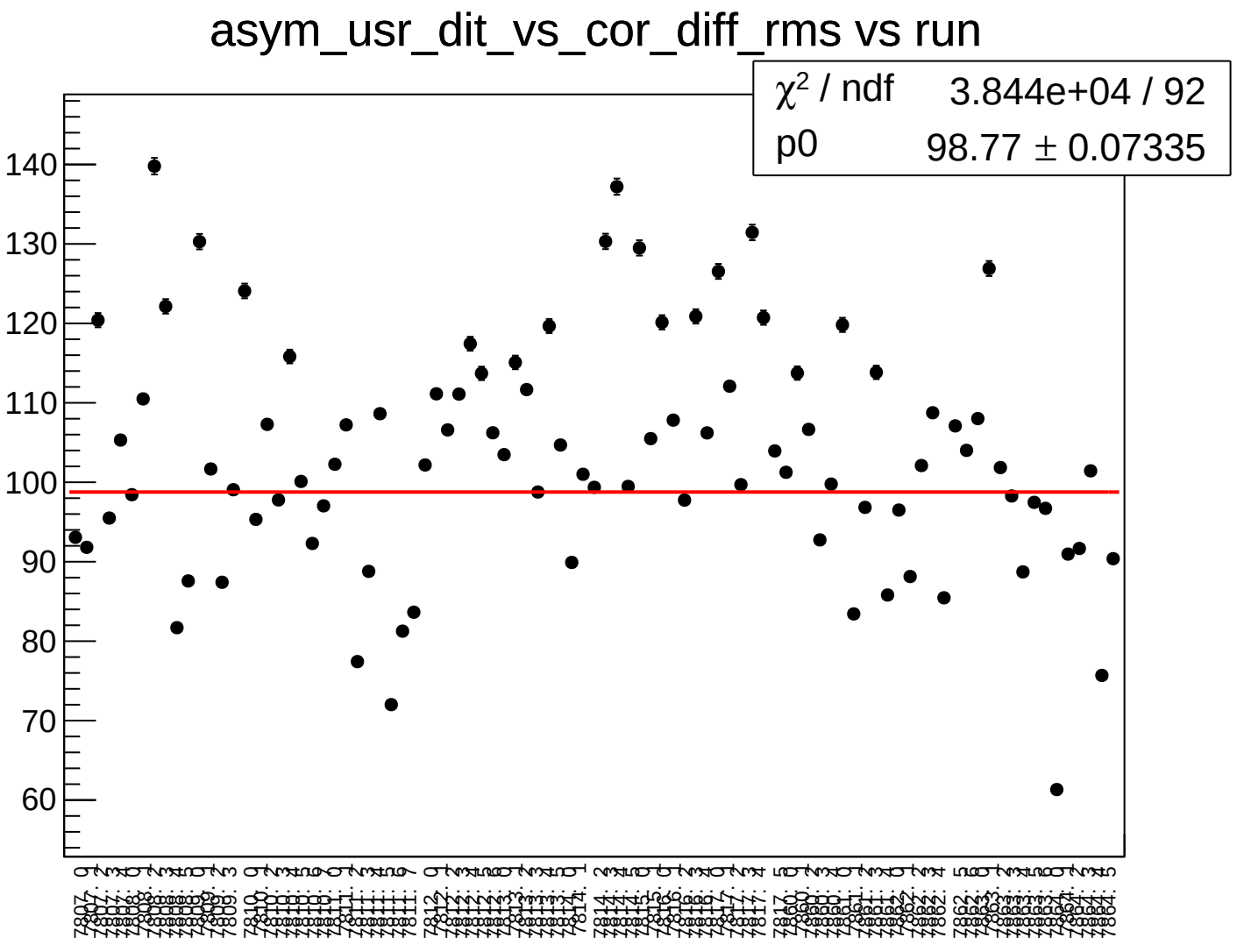

asym_usr_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.79 / 92
p0 2.152e−13 ± 4.672e−13
60
40
20
0
−20
−40
pull
Entries 93
Mean 32.89
Std Dev 26.89
2
1
0
−1
−2

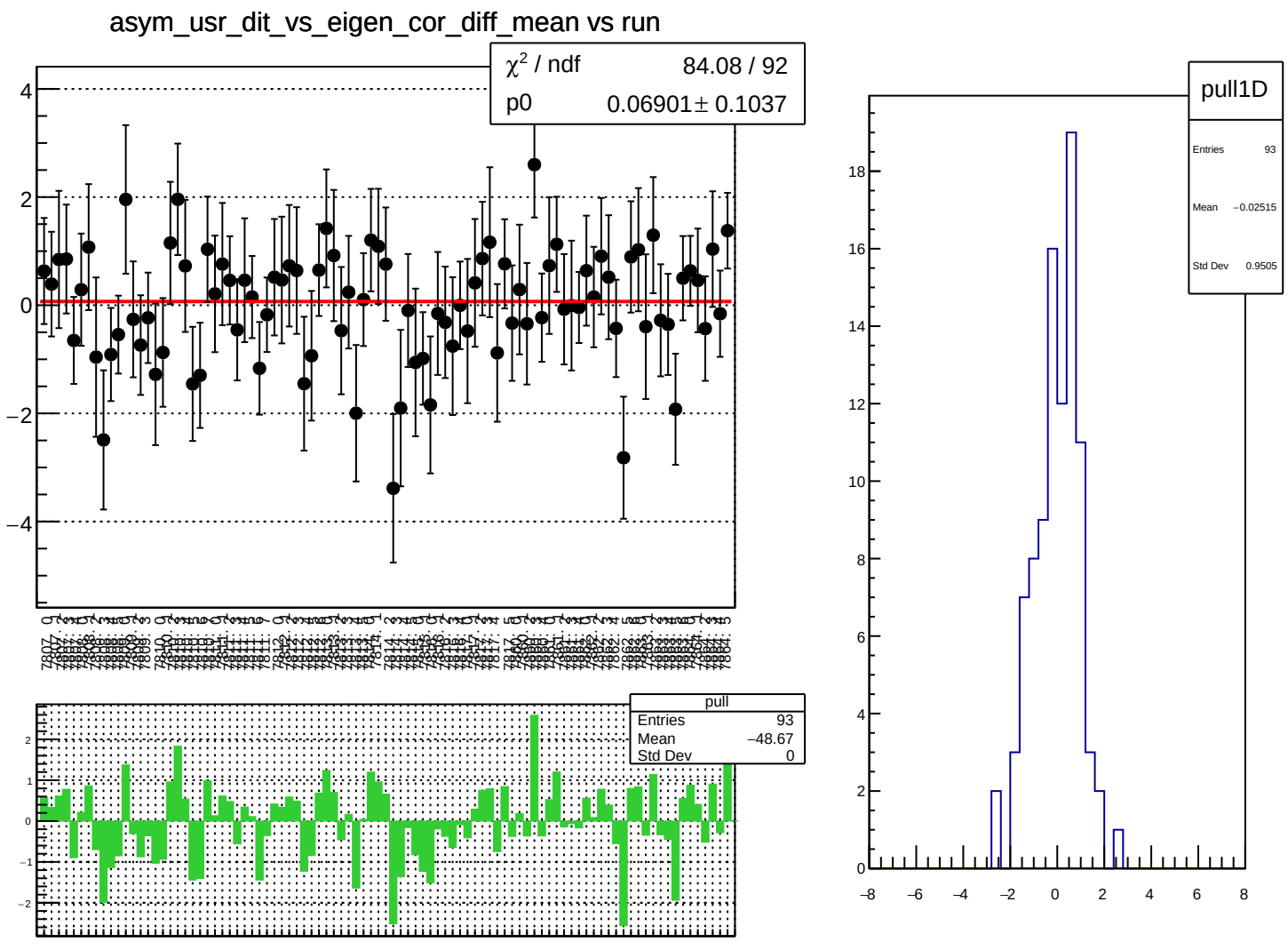

pull1D
Entries 93
Mean 0.1447
Std Dev 0.9323
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

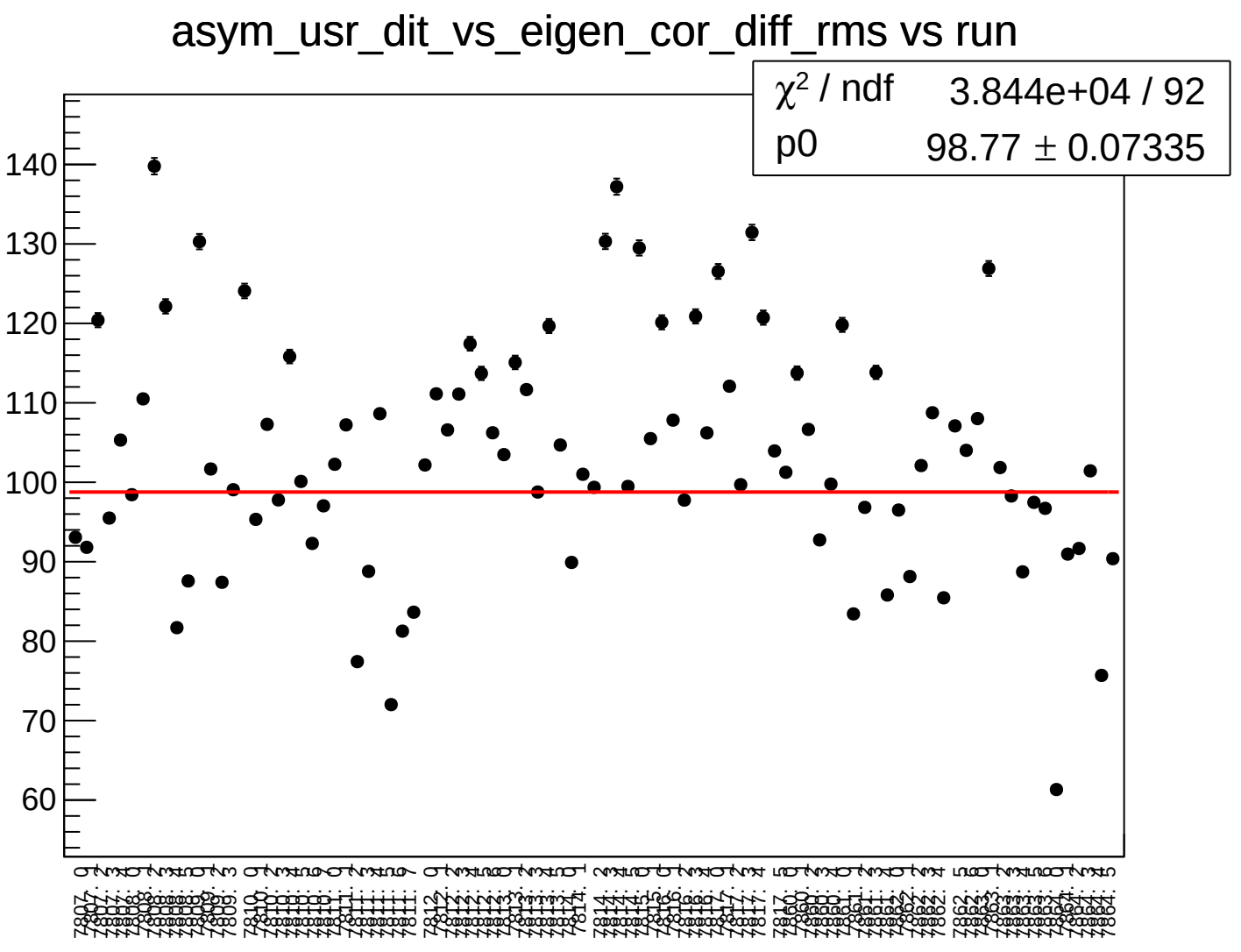

asym_usr_reg_vs_cor_diff_rms vs run
×10⁻⁹
3.5
3
2.5
2
1.5
1
0.5
χ² / ndf 1.001e+06 / 92
p0 3.046e−10 ± 3.303e−13

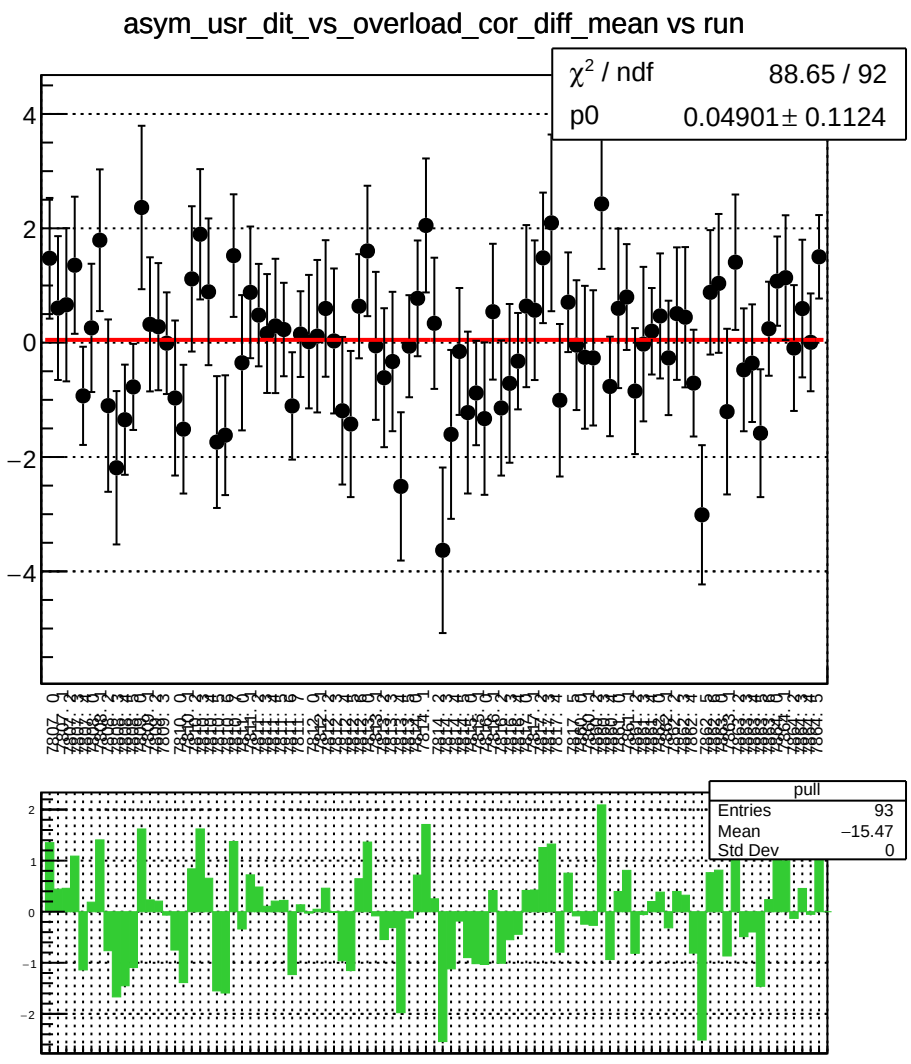

asym_usr_dit_vs_cor_diff_mean vs run
χ² / ndf 84.08 / 92
p0 0.06901 ± 0.1037
pull
Entries 93
Mean −48.67
Std Dev 0

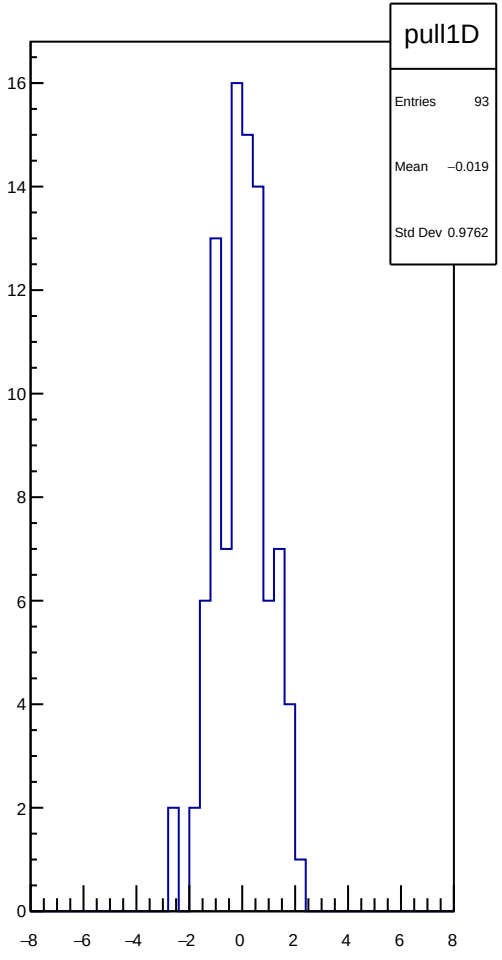

pull1D
Entries 93
Mean −0.02515
Std Dev 0.9505

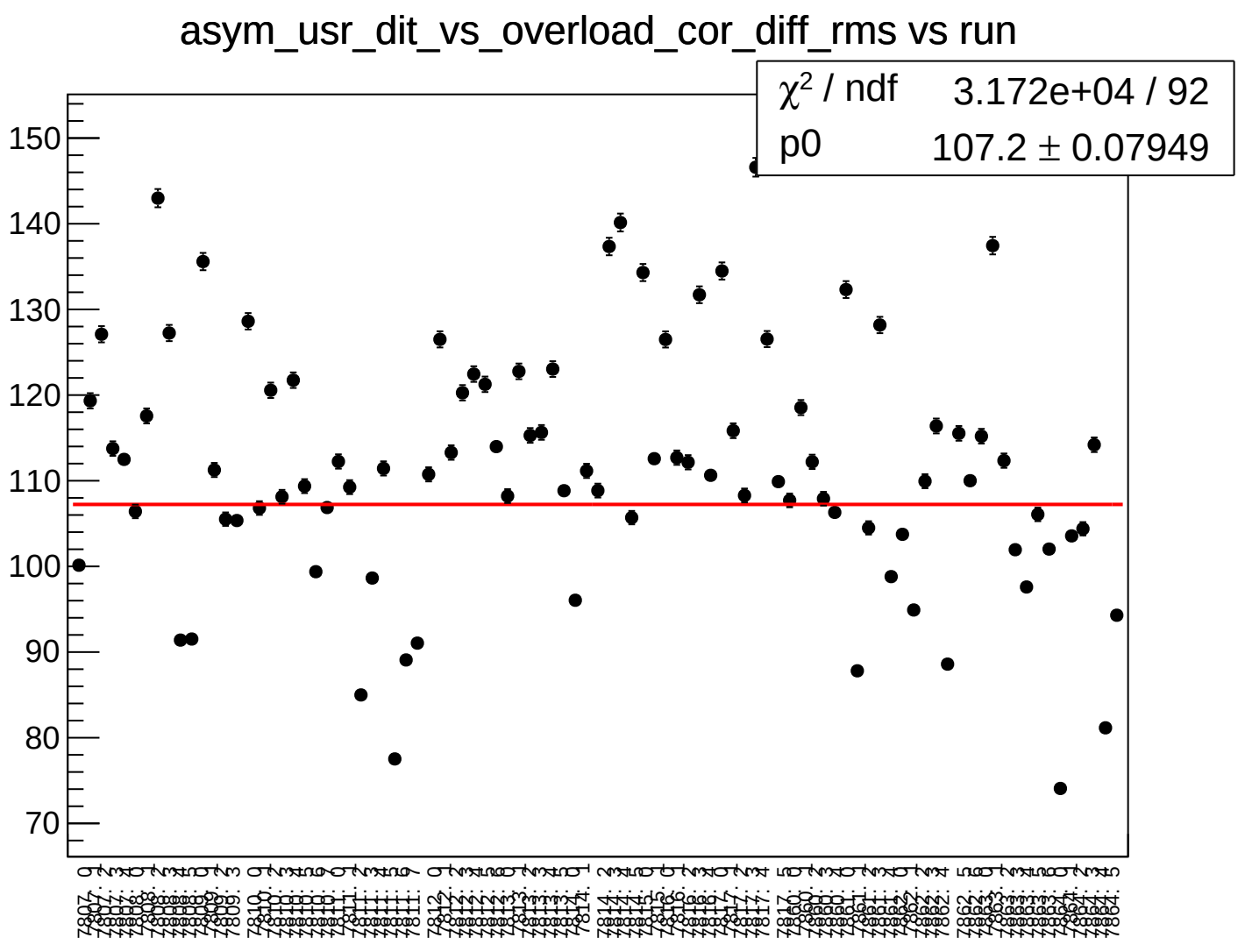

asym_usr_dit_vs_cor_diff_rms vs run
χ² / ndf 3.844e+04 / 92
p0 98.77 ± 0.07335
140
130
120
110
100
90
80
70
60

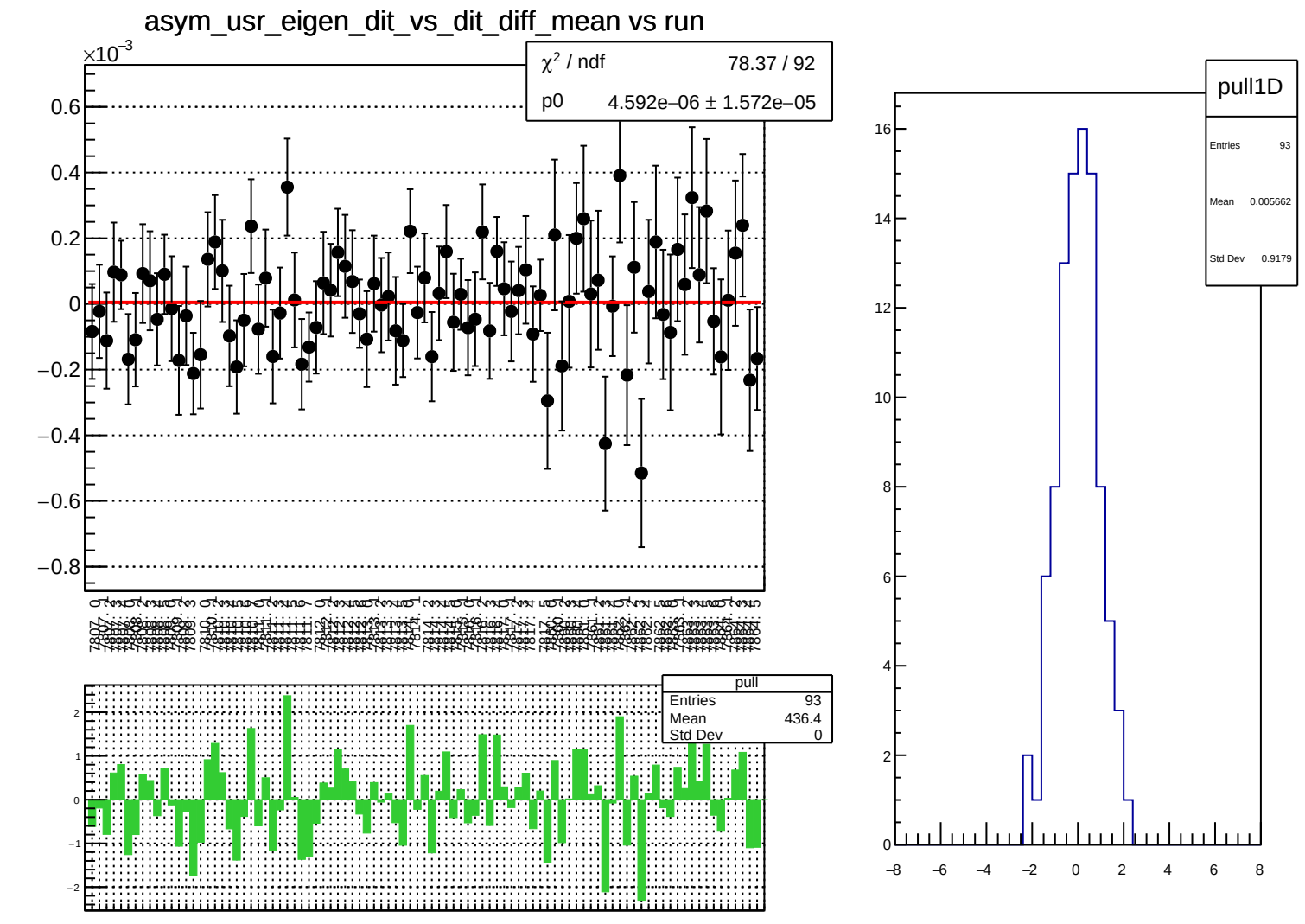

asym_usr_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.08 / 92
p0 0.06901 ± 0.1037
pull
Entries 93
Mean −48.67
Std Dev 0
pull1D
Entries 93
Mean −0.02515
Std Dev 0.9505

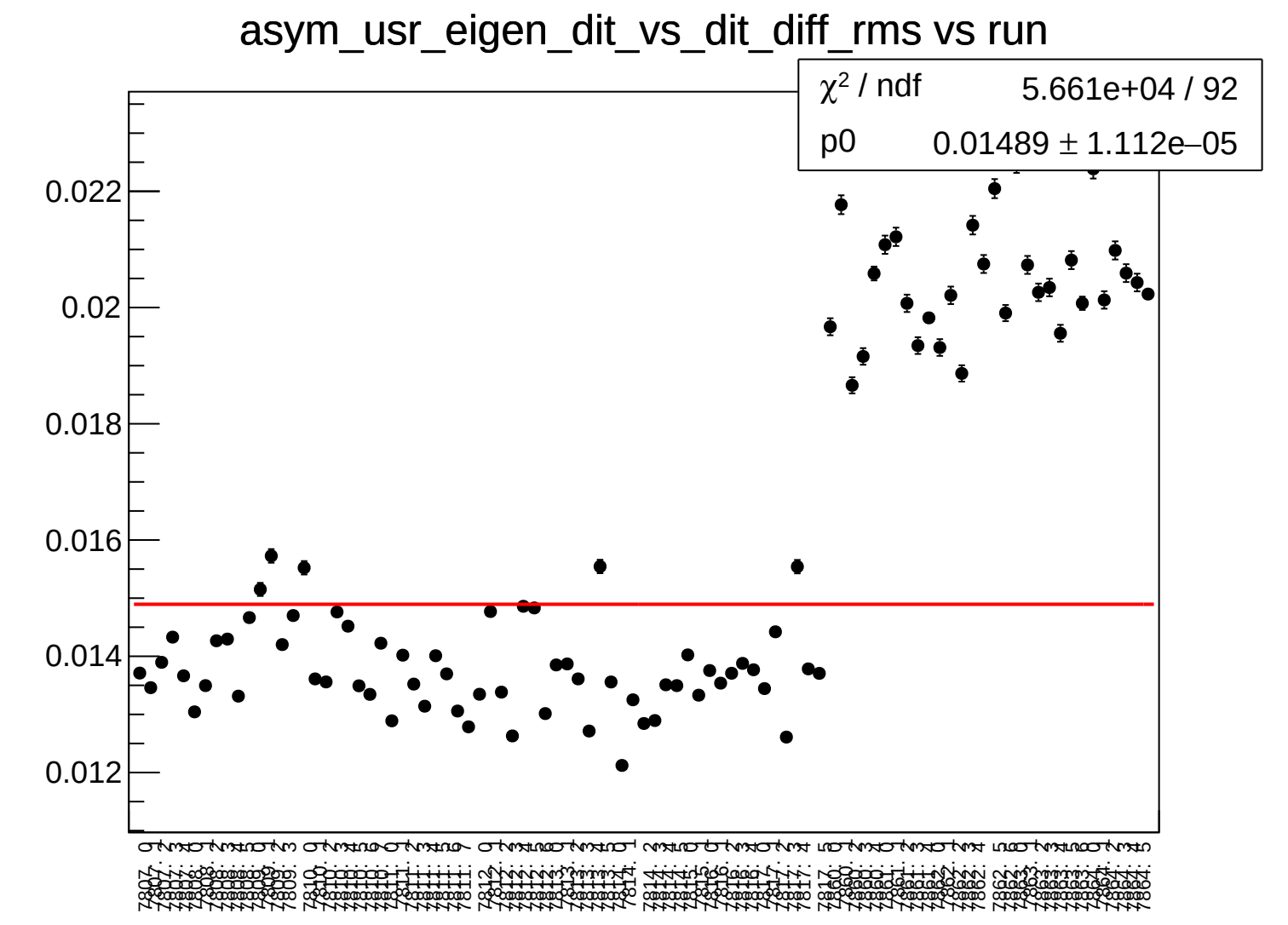

asym_usr_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.844e+04 / 92
p0 98.77 ± 0.07335
140
130
120
110
100
90
80
70
60

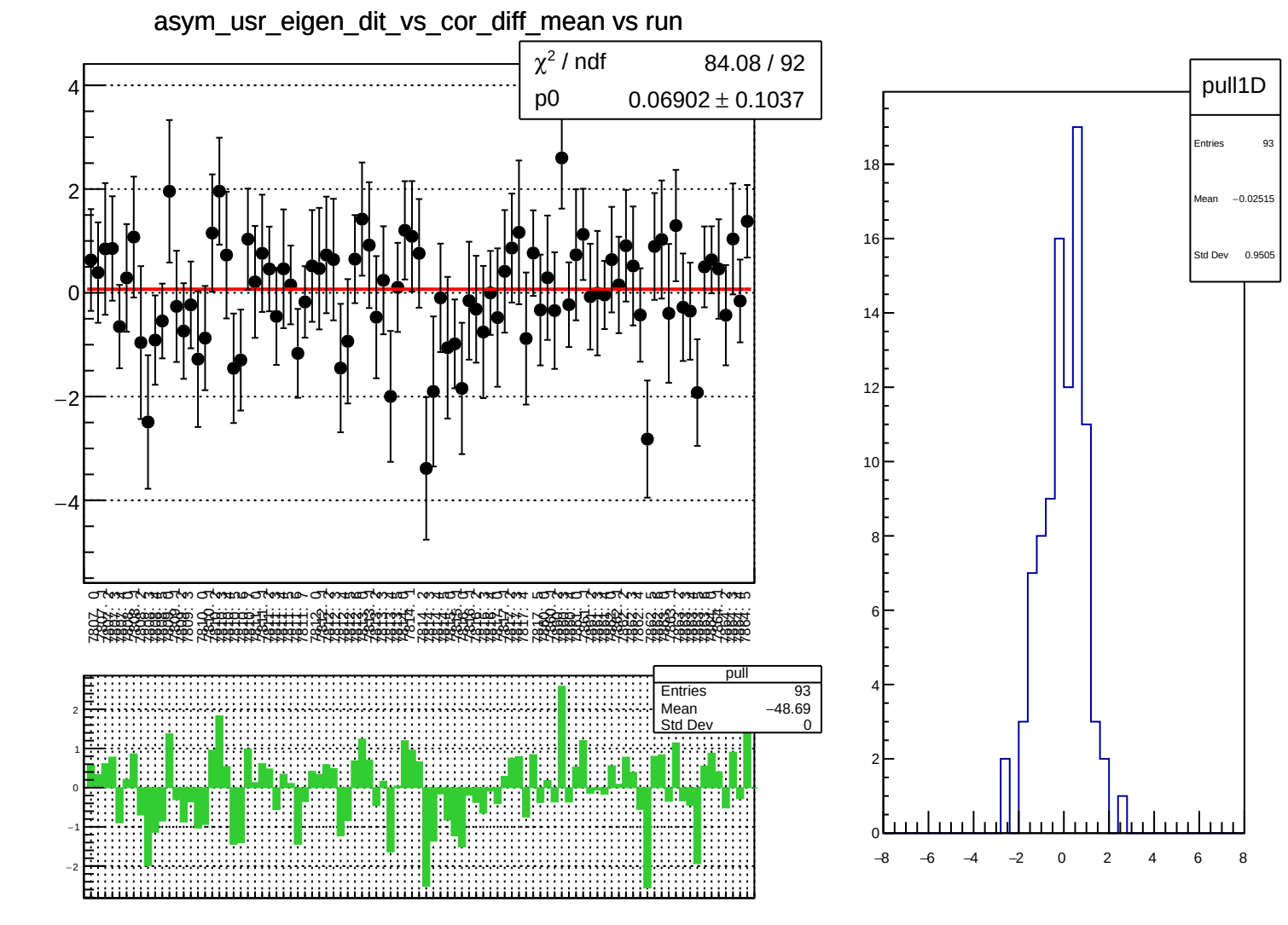

asym_usr_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 88.65 / 92
p0 0.04901 ± 0.1124
pull
Entries 93
Mean −15.47
Std Dev 0

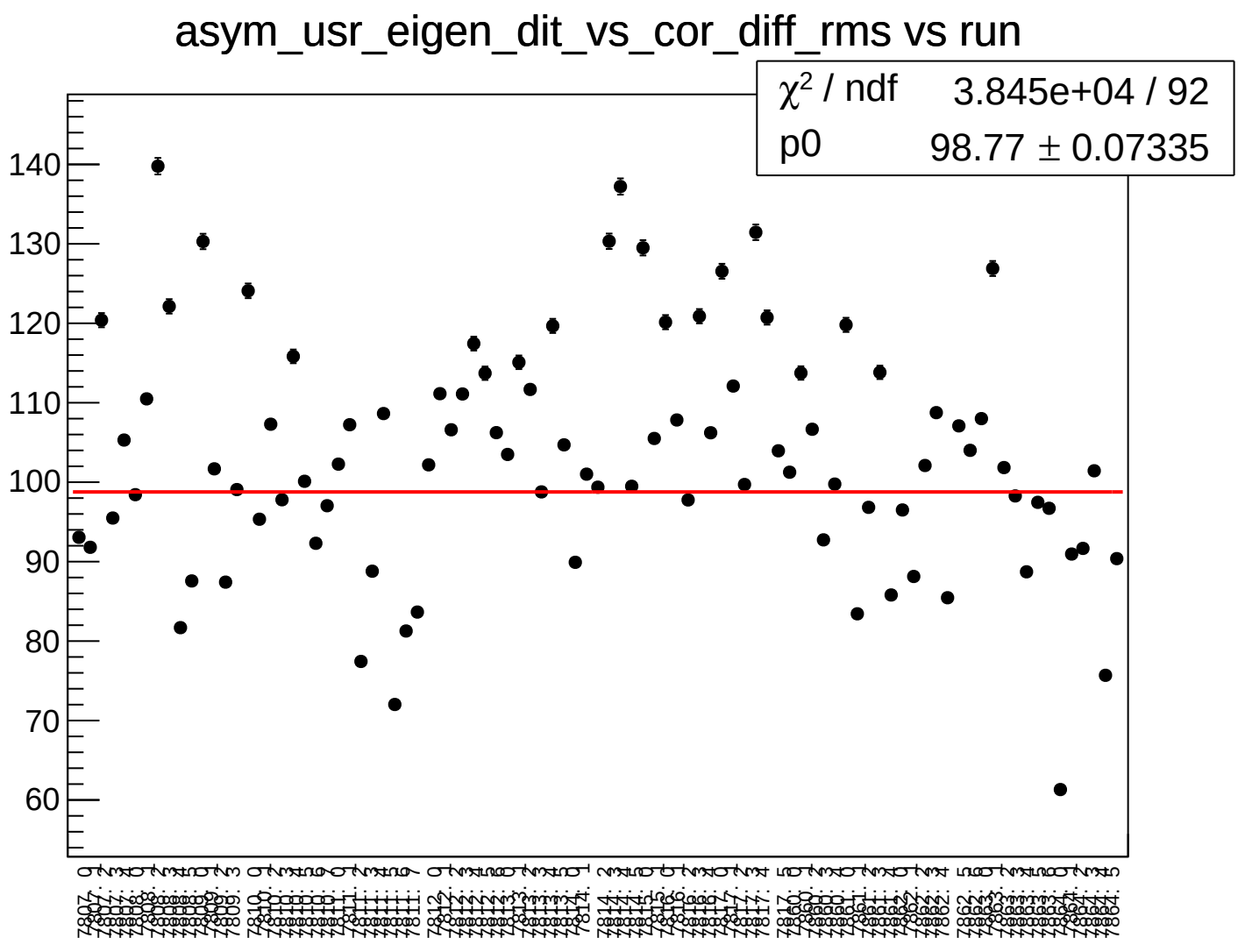

pull1D
Entries 93
Mean −0.019
Std Dev 0.9762

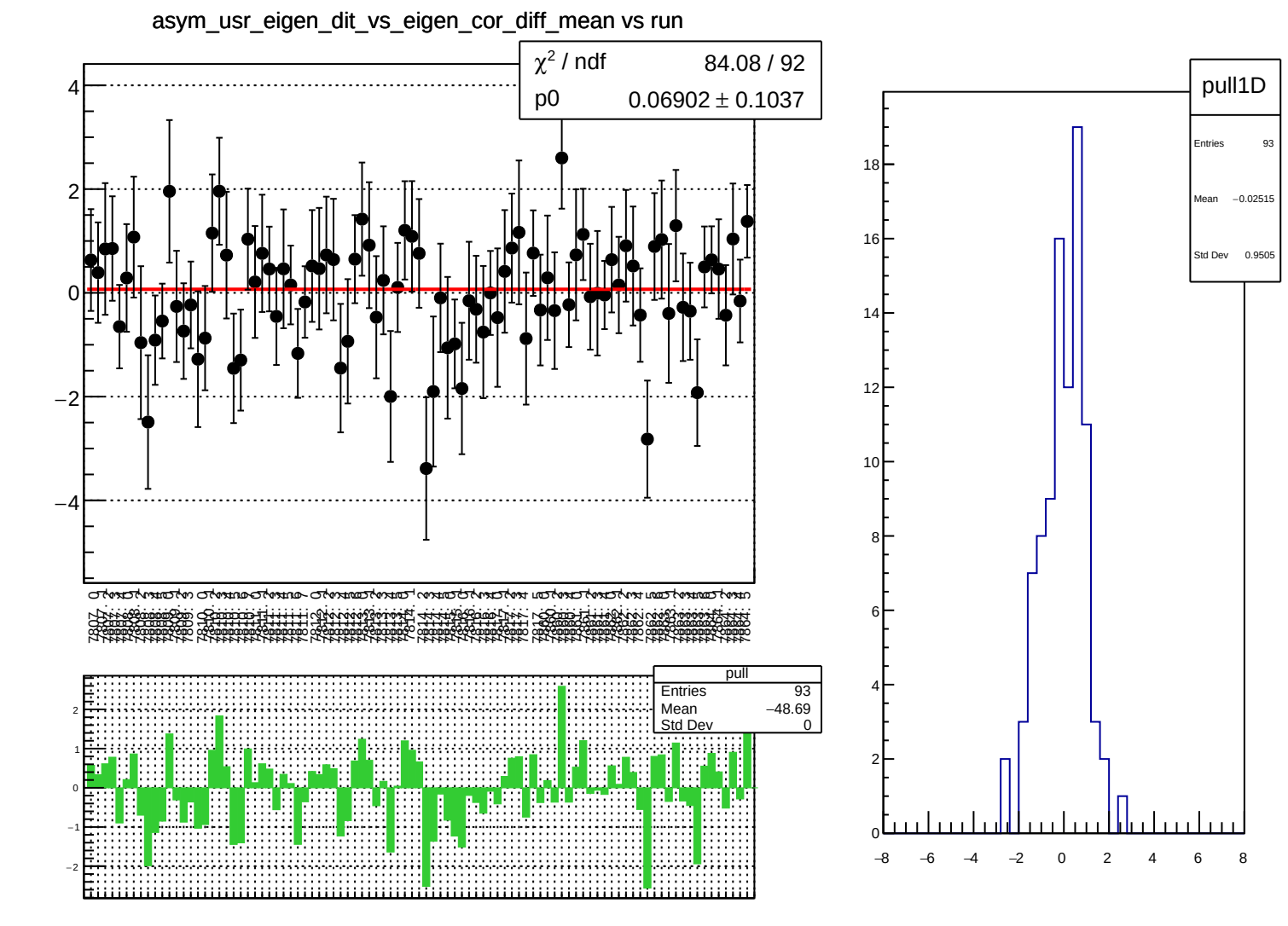

asym_usr_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 3.172e+04 / 92
p0 107.2 ± 0.07949
150
140
130
120
110
100
90
80
70

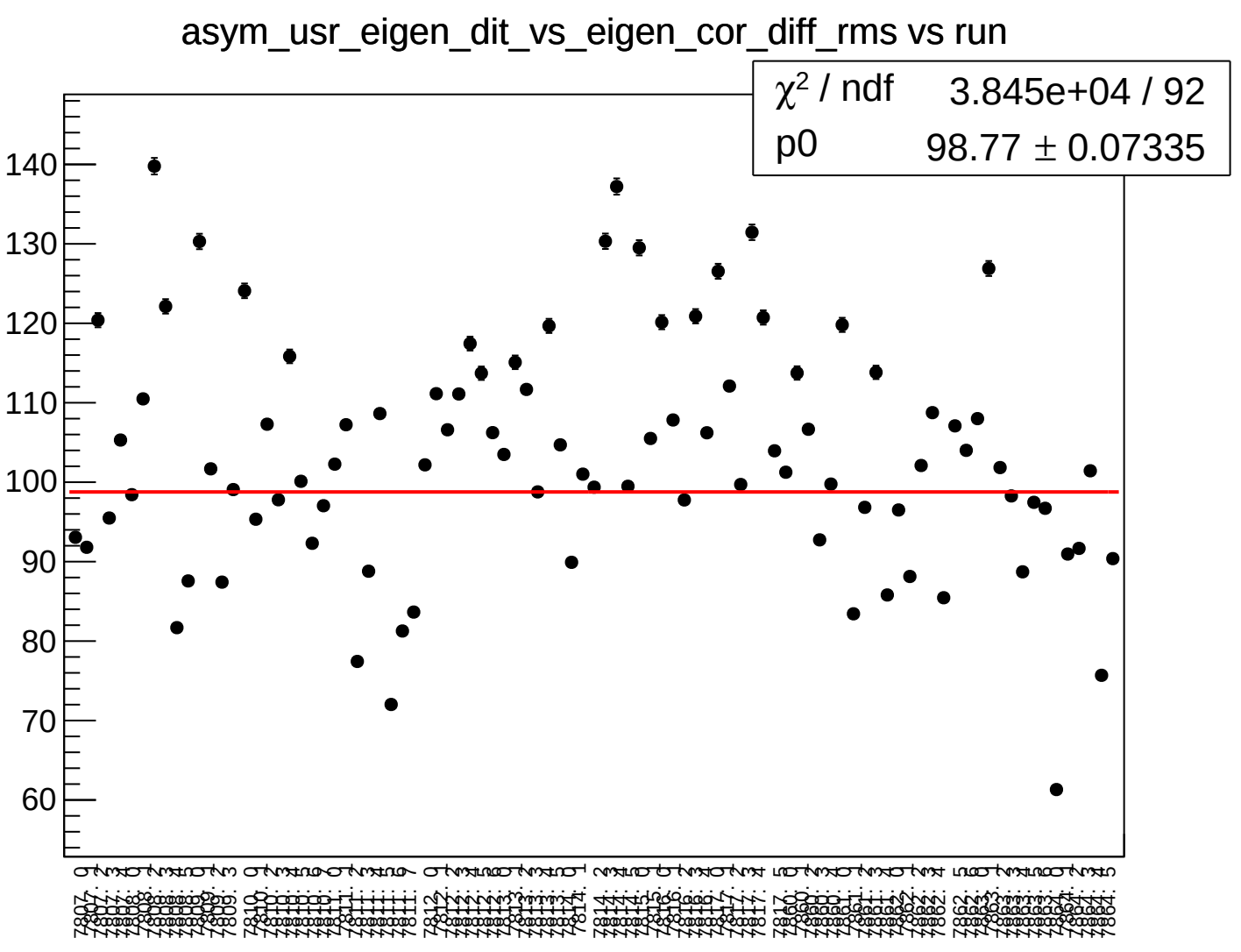

asym_usr_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 78.37 / 92
p0 4.592e−06 ± 1.572e−05
pull
Entries 93
Mean 436.4
Std Dev 0
pull1D
Entries 93
Mean 0.005662
Std Dev 0.9179

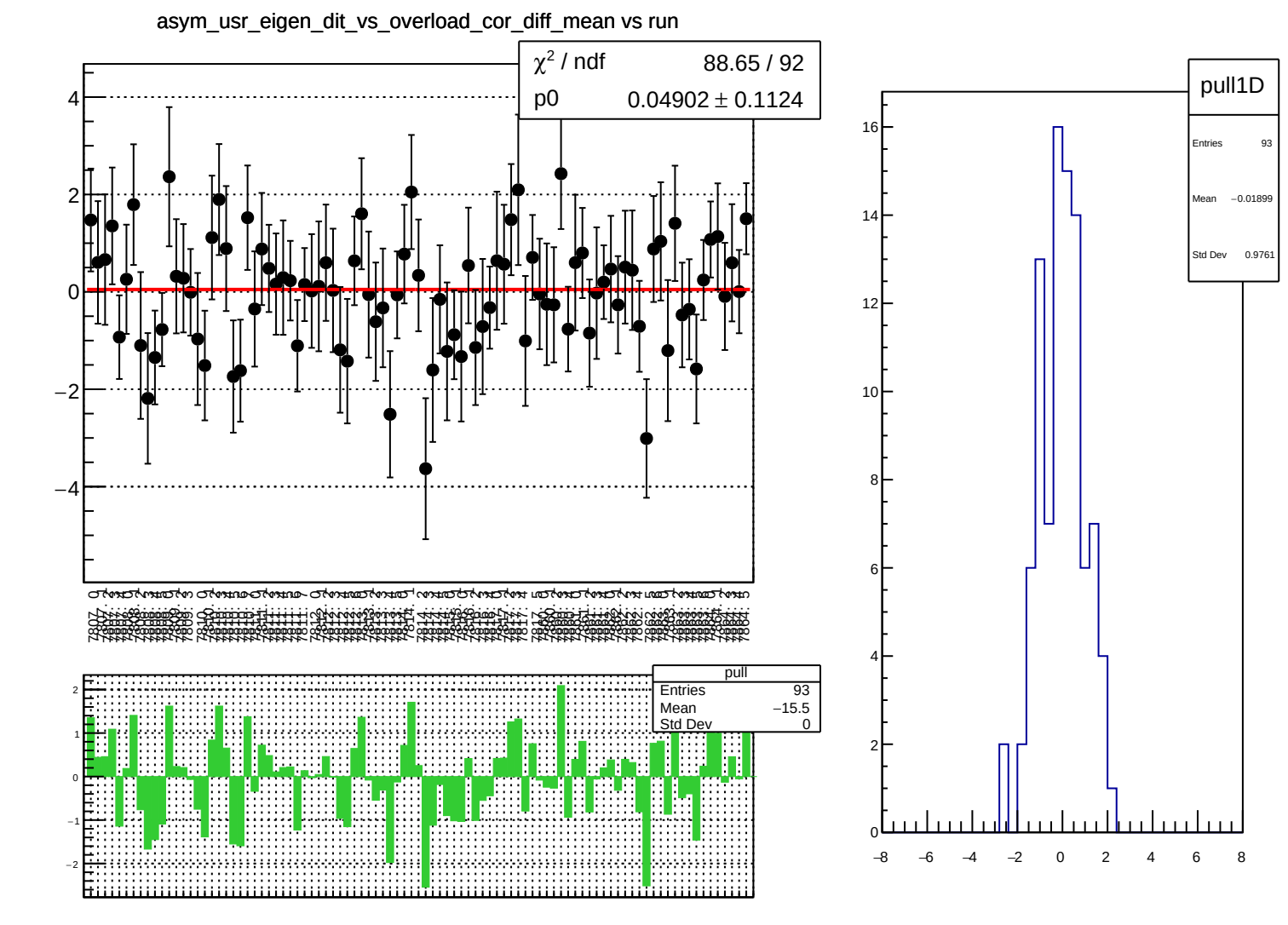

asym_usr_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.661e+04 / 92
p0 0.01489 ± 1.112e−05
0.022
0.02
0.018
0.016
0.014
0.012

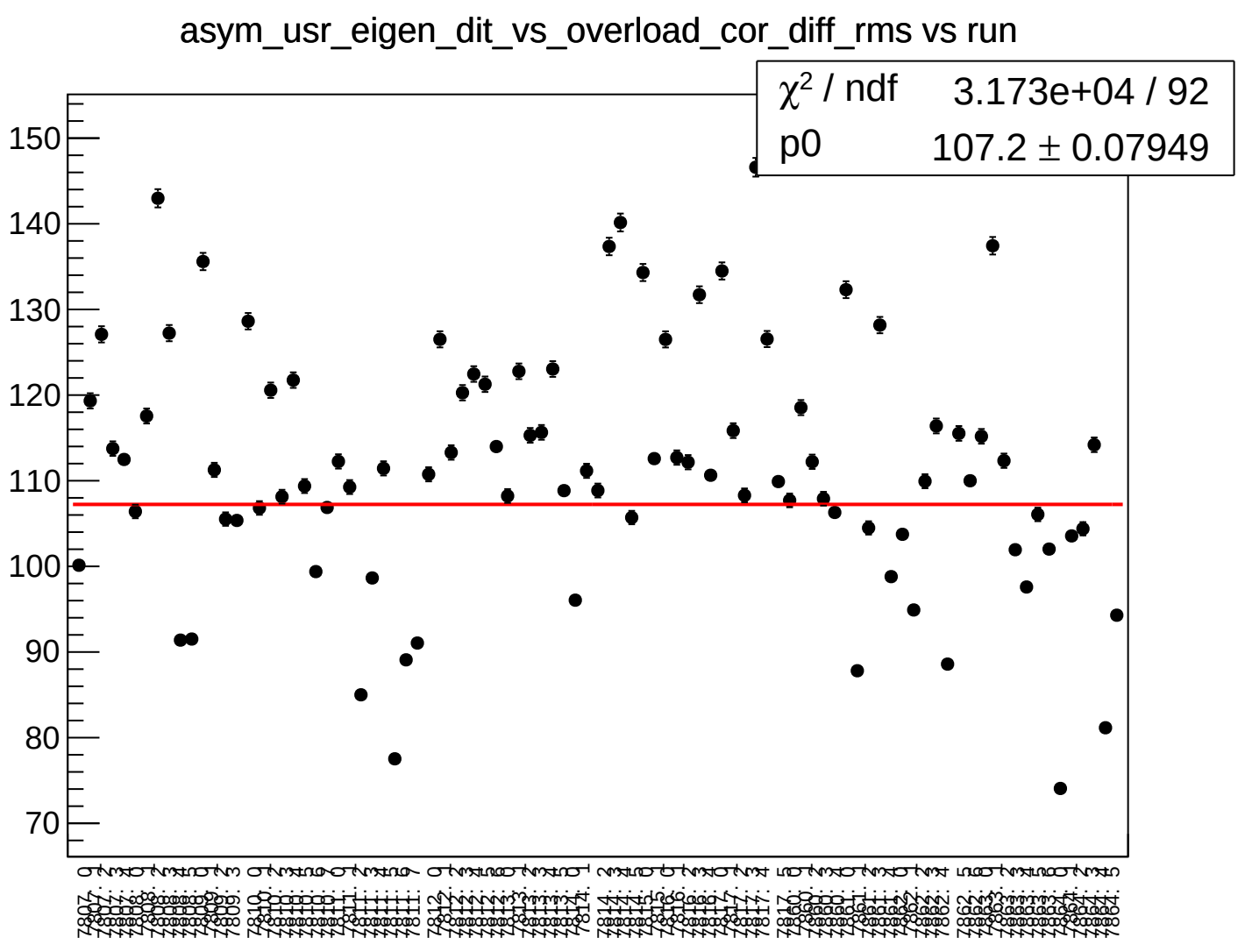

asym_usr_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.08 / 92
p0 0.06902 ± 0.1037
pull
Entries 93
Mean −48.69
Std Dev 0
pull1D
Entries 93
Mean −0.02515
Std Dev 0.9505

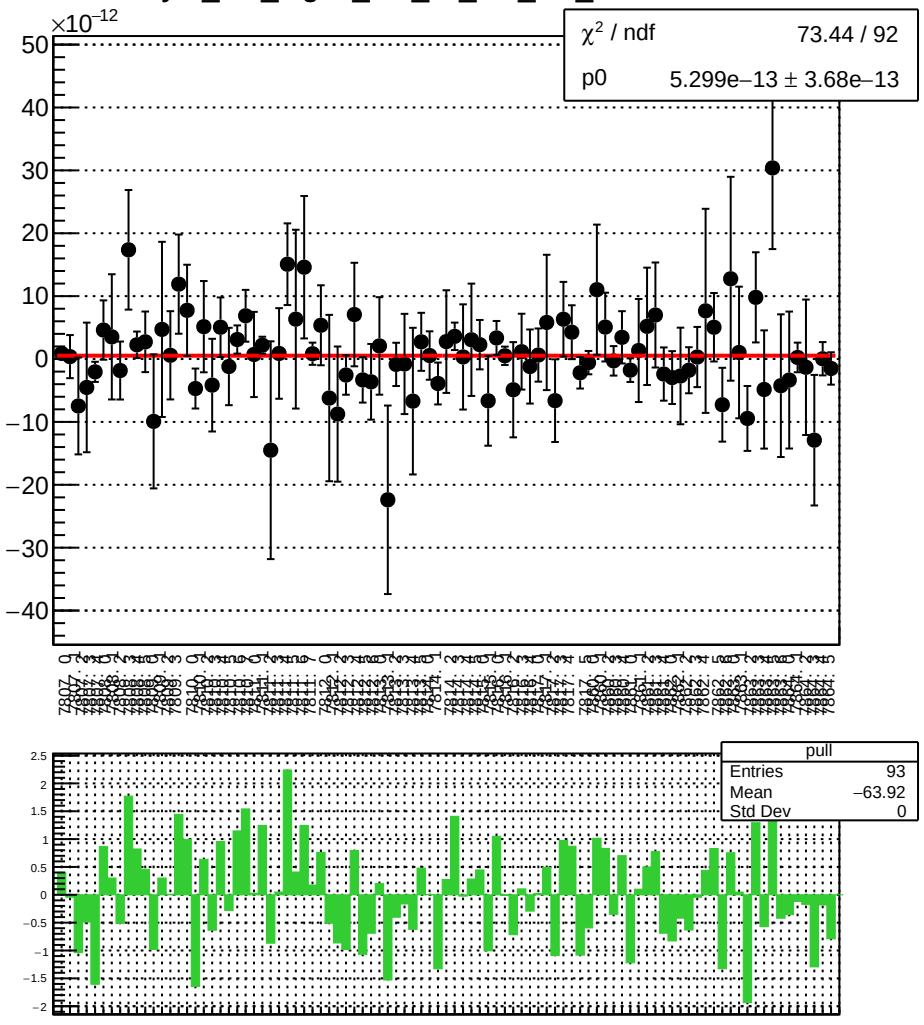

asym_usr_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.845e+04 / 92
p0 98.77 ± 0.07335
140
130
120
110
100
90
80
70
60

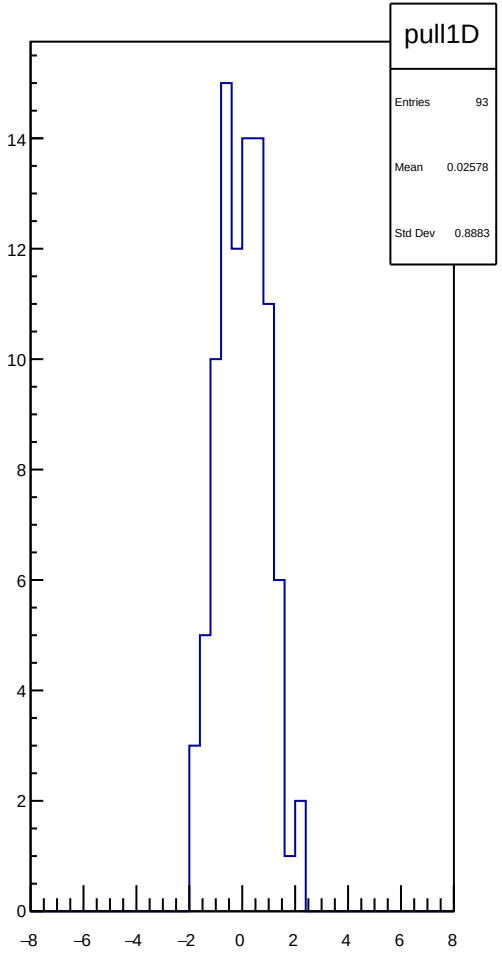

asym_usr_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.08 / 92
p0 0.06902 ± 0.1037
pull
Entries 93
Mean −48.69
Std Dev 0
pull1D
Entries 93
Mean −0.02515
Std Dev 0.9505

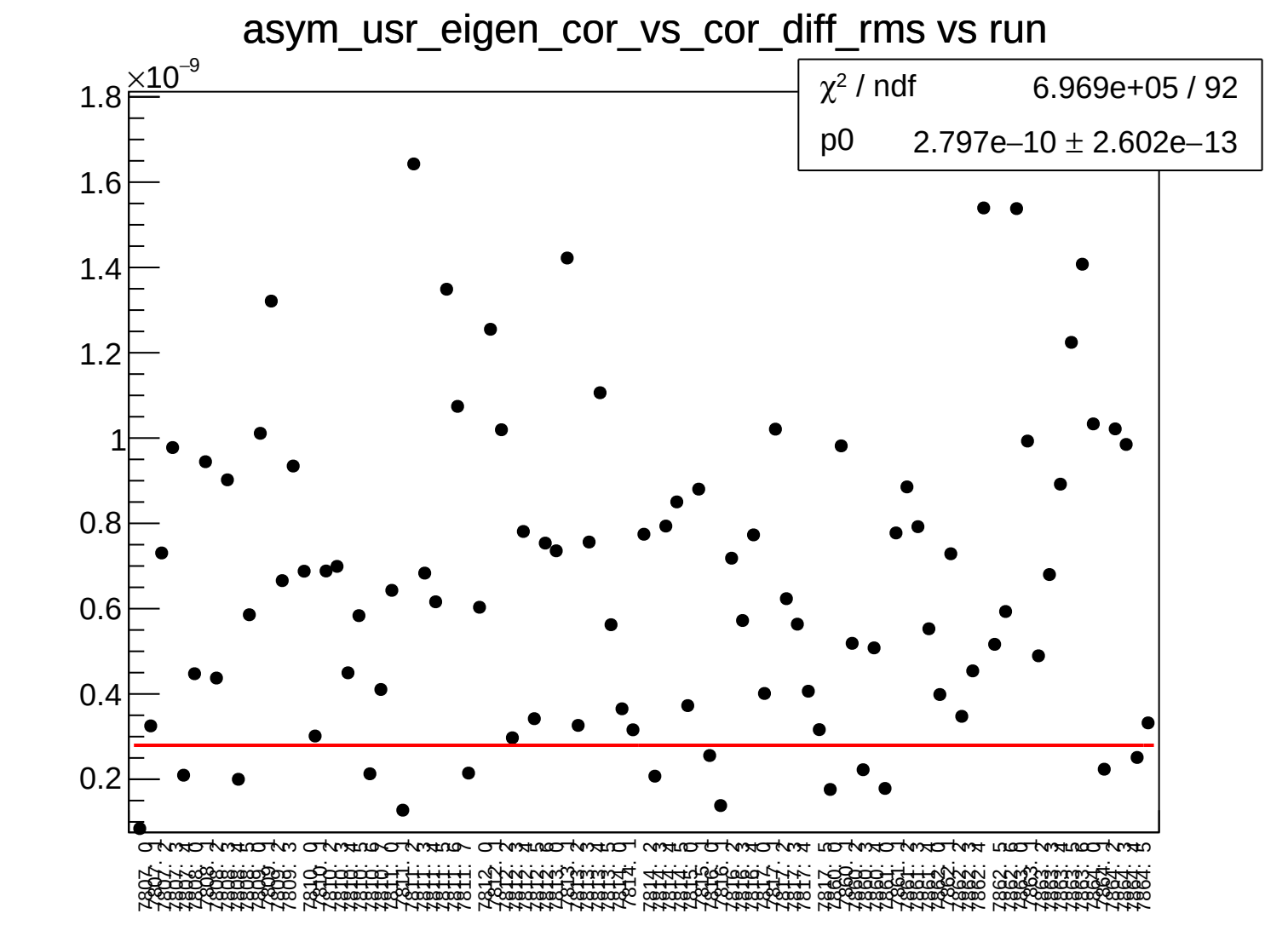

asym_usr_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.845e+04 / 92
p0 98.77 ± 0.07335
140
130
120
110
100
90
80
70
60

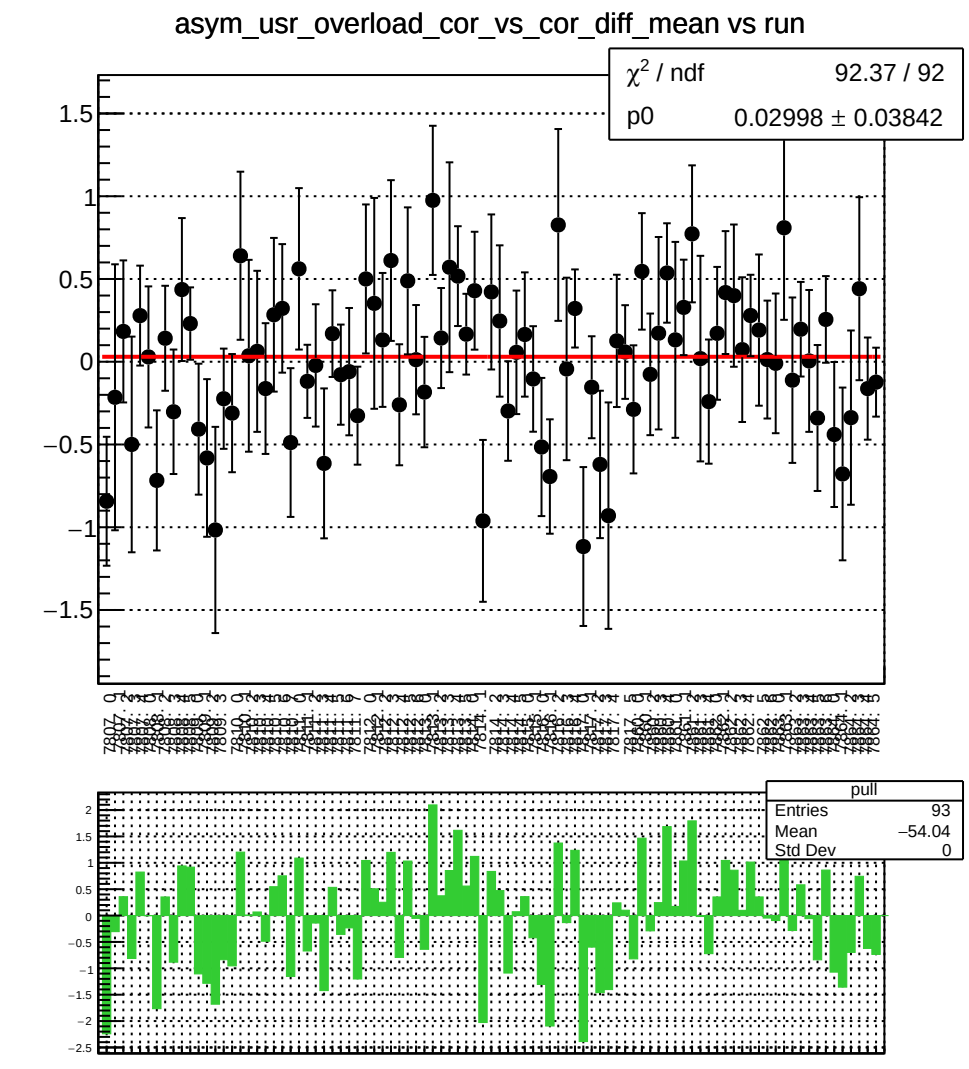

asym_usr_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 88.65 / 92
p0 0.04902 ± 0.1124
pull
Entries 93
Mean −15.5
Std Dev 0
pull1D
Entries 93
Mean −0.01899
Std Dev 0.9761

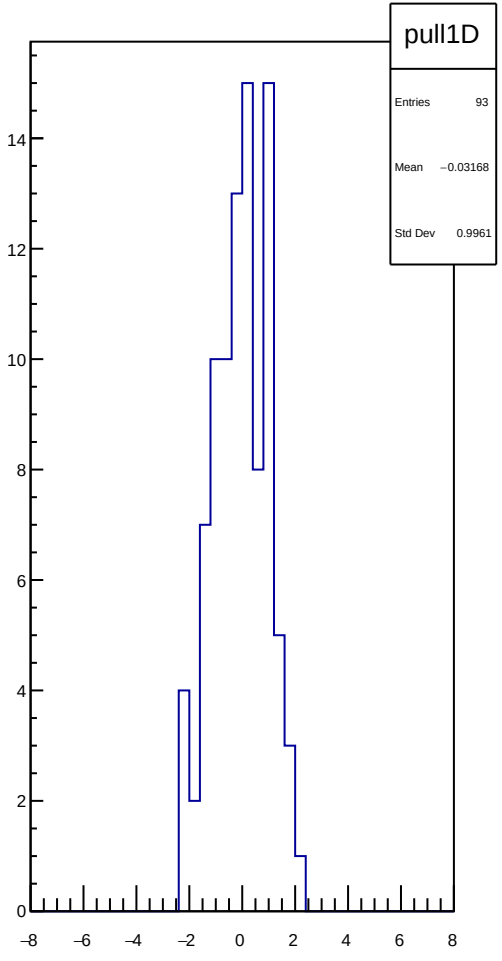

asym_usr_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 3.173e+04 / 92
p0 107.2 ± 0.07949
150
140
130
120
110
100
90
80
70

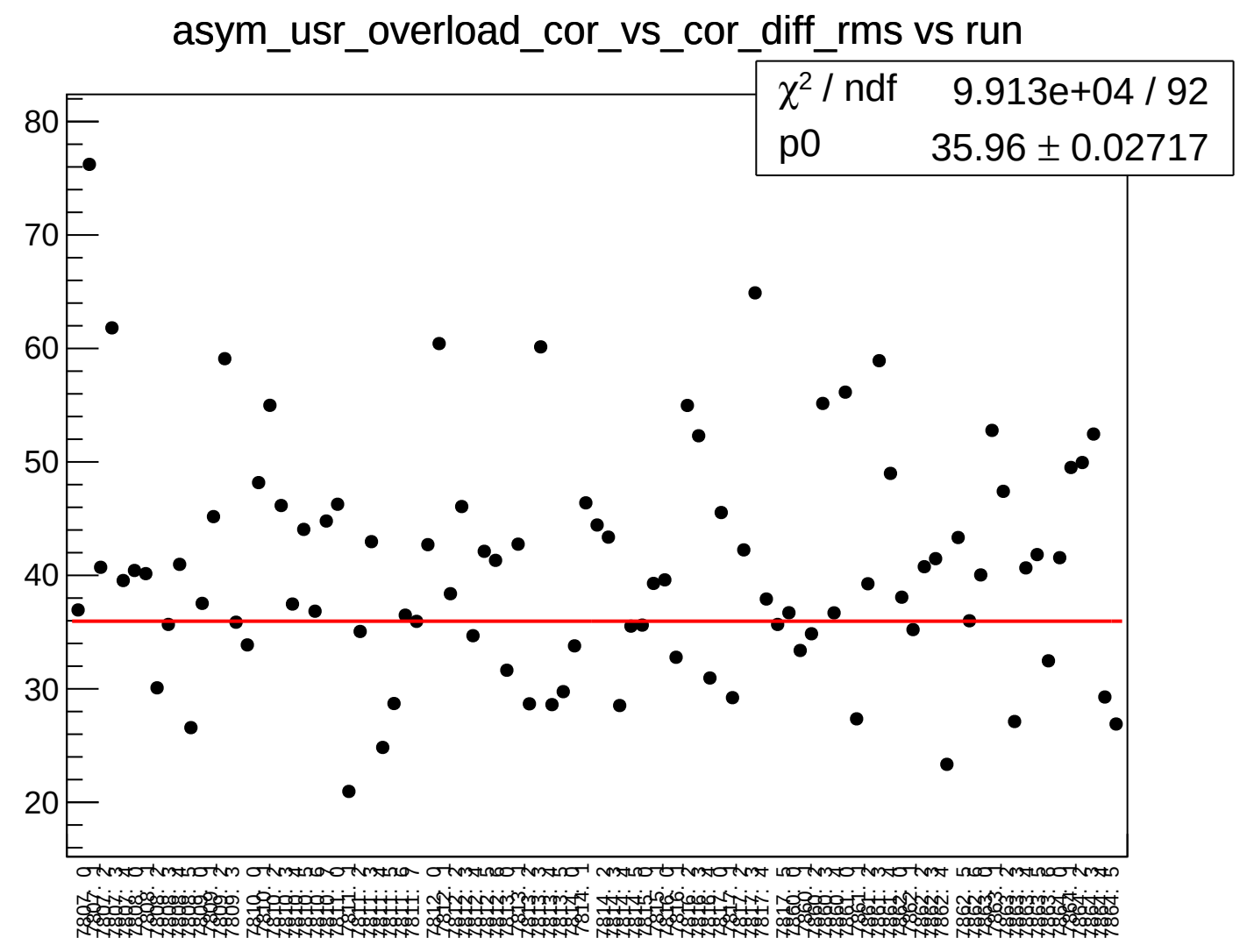

asym_usr_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 73.44 / 92
p0 5.299e−13 ± 3.68e−13
pull
Entries 93
Mean −63.92
Std Dev 0

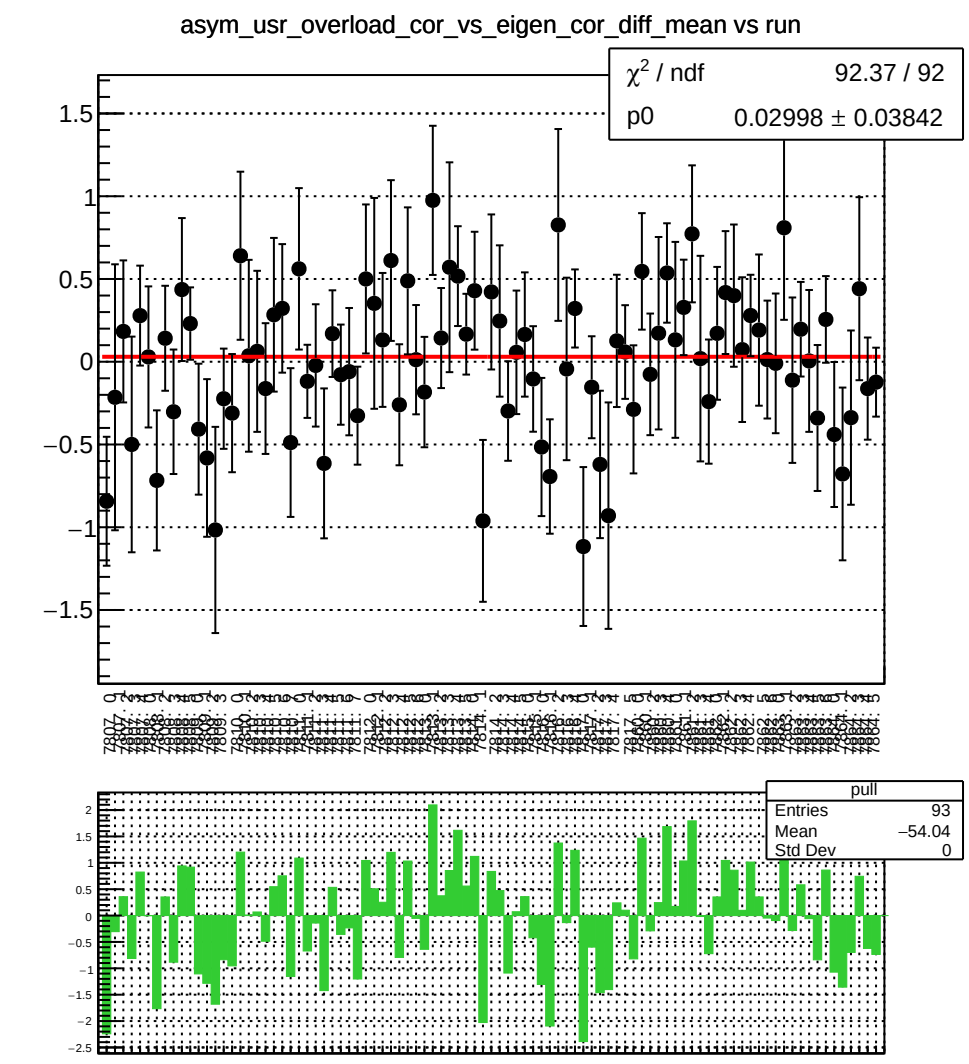

pull1D
Entries 93
Mean 0.02578
Std Dev 0.8883

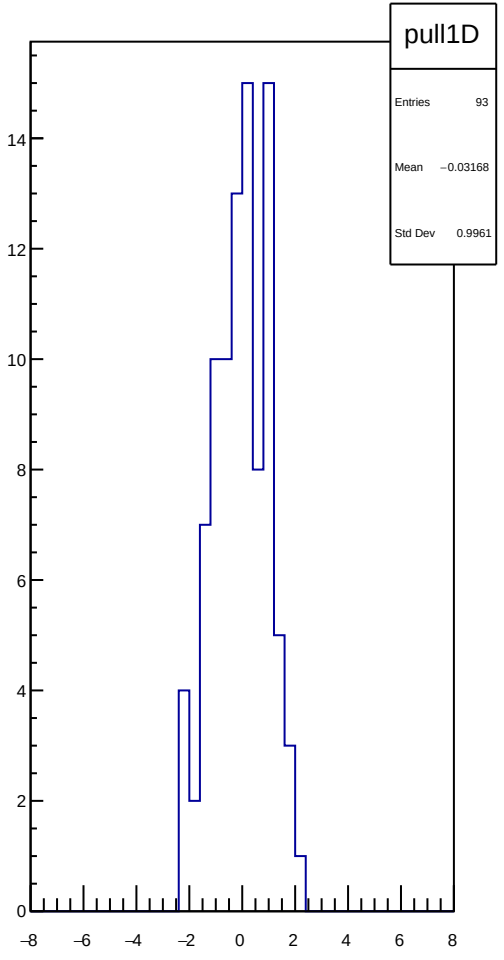

asym_usr_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
χ² / ndf 6.969e+05 / 92
p0 2.797e−10 ± 2.602e−13

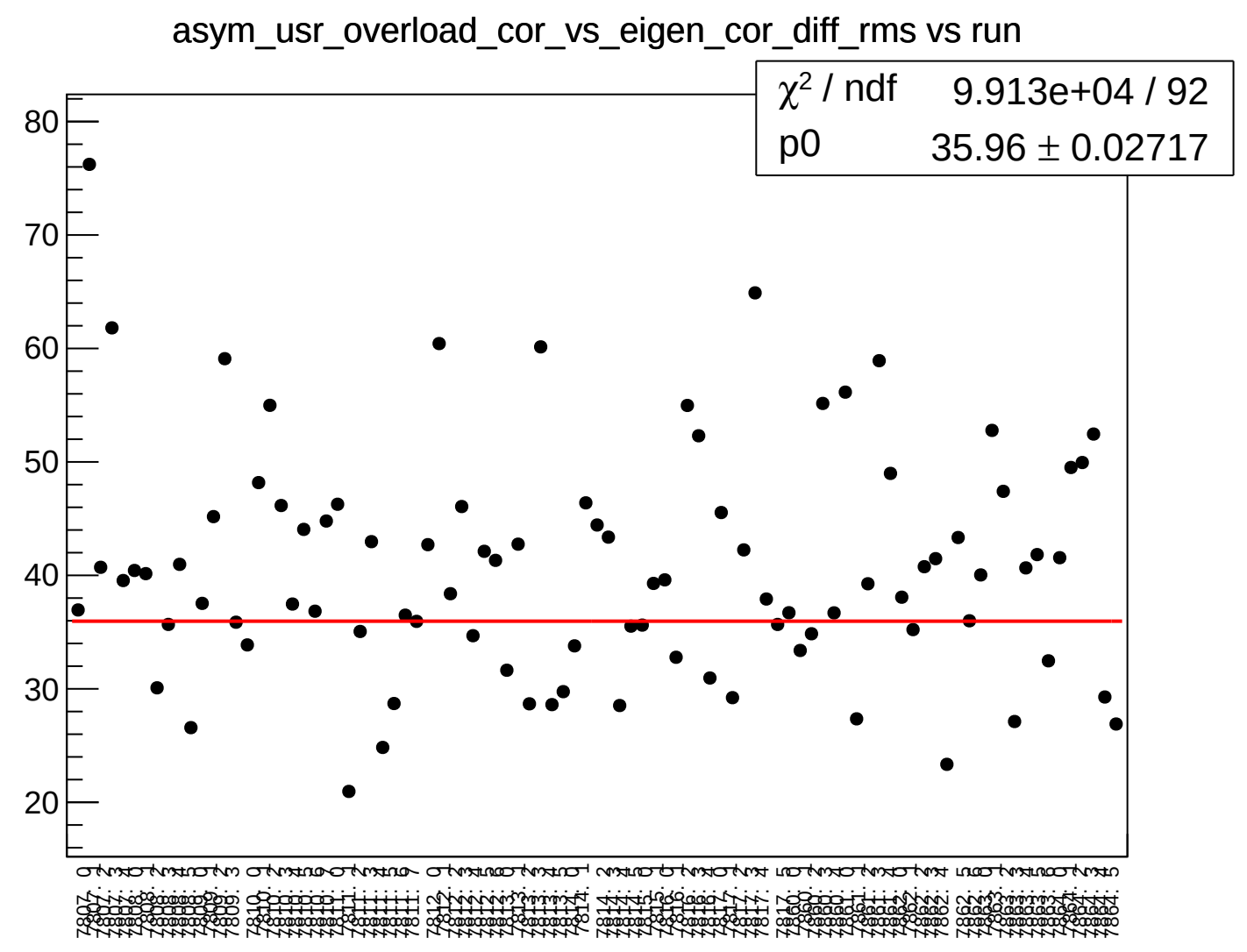

asym_usr_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 92.37 / 92
p0 0.02998 ± 0.03842
pull
Entries 93
Mean −54.04
Std Dev 0

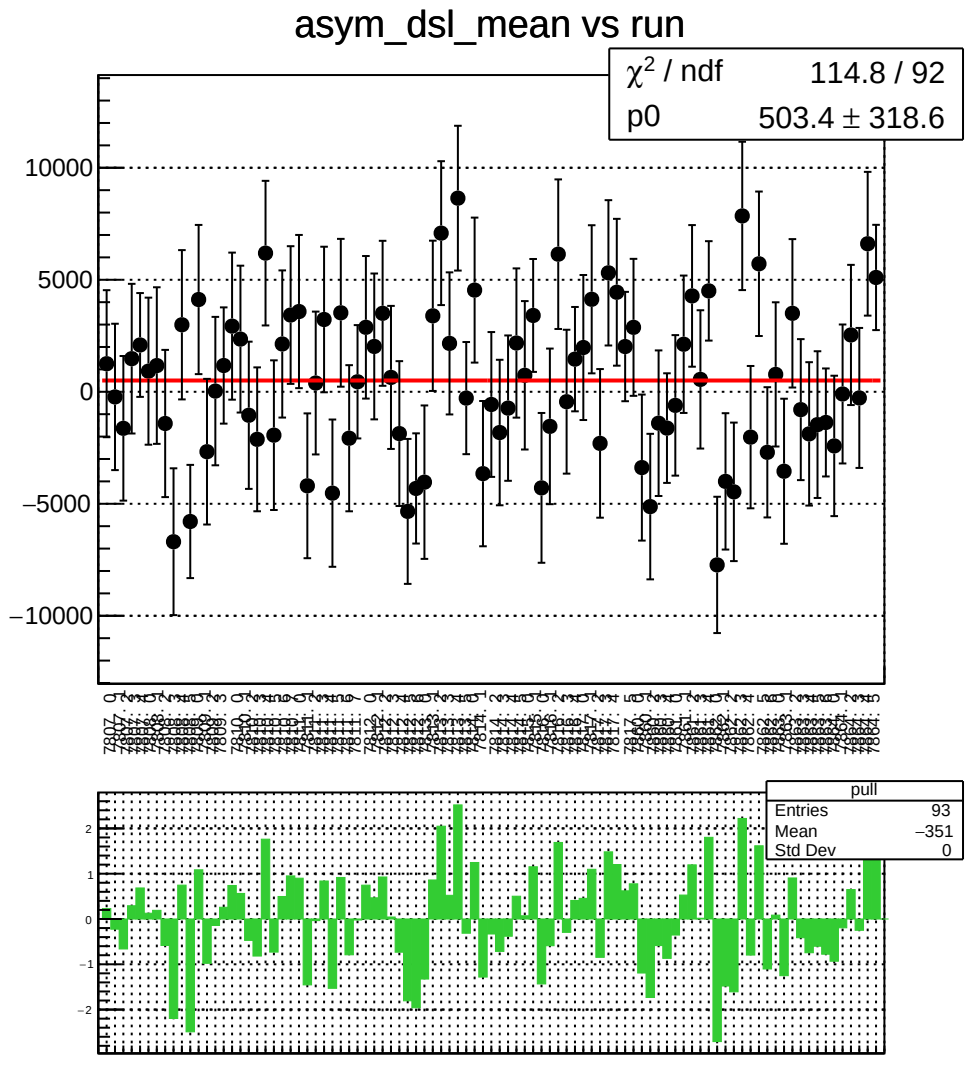

pull1D
Entries 93
Mean −0.03168
Std Dev 0.9961

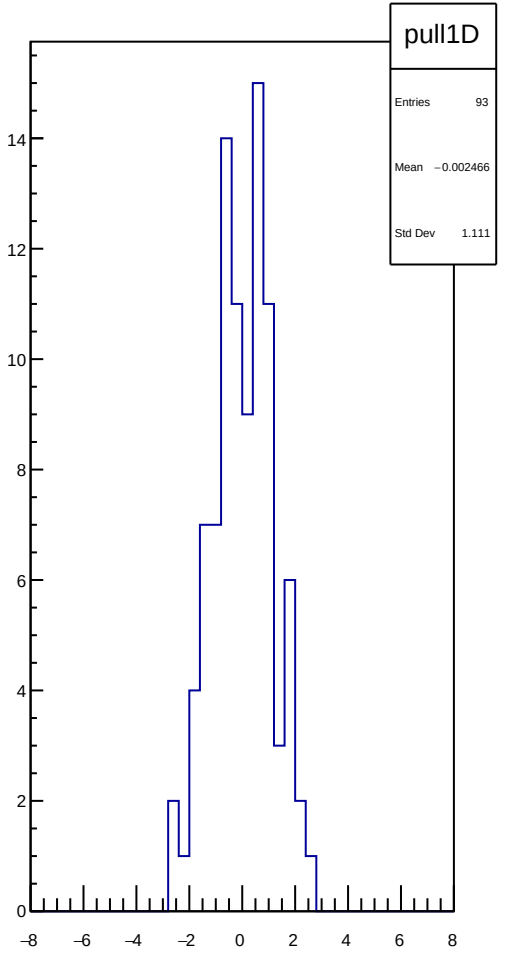

asym_usr_overload_cor_vs_cor_diff_rms vs run
χ^2 / ndf 9.913e+04 / 92
p0 35.96 ± 0.02717
80
70
60
50
40
30
20

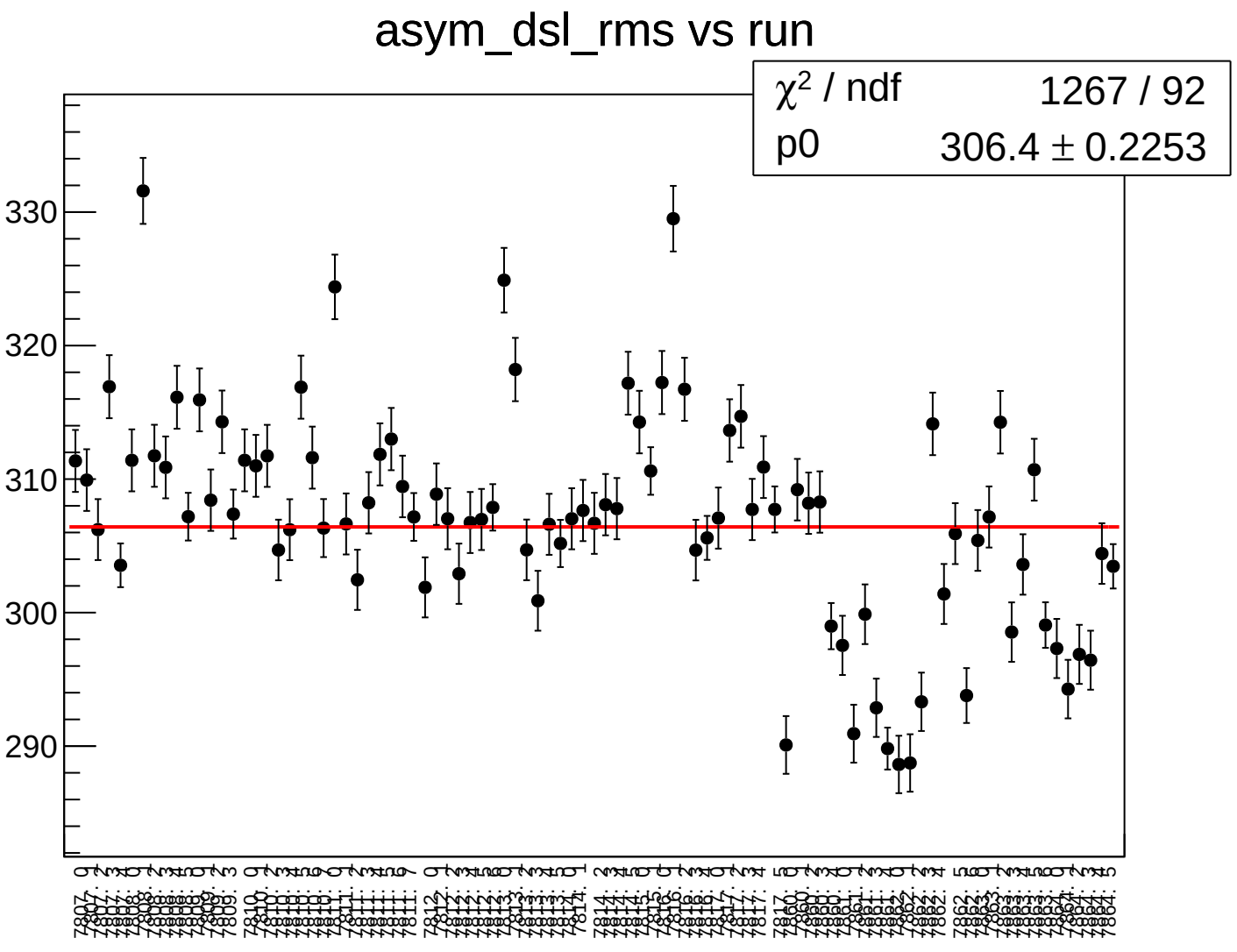

asym_usr_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.37 / 92
p0 0.02998 ± 0.03842
pull
Entries 93
Mean −54.04
Std Dev 0

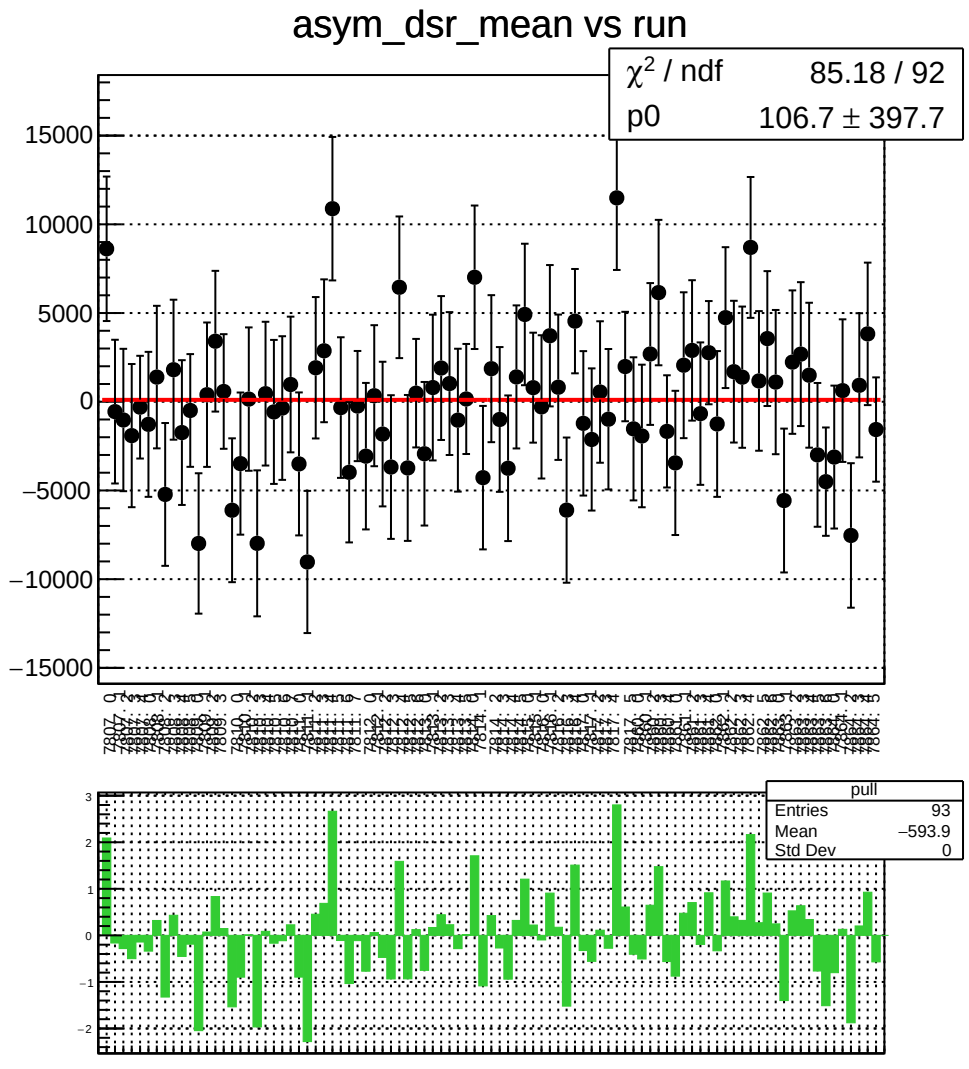

pull1D
Entries 93
Mean −0.03168
Std Dev 0.9961

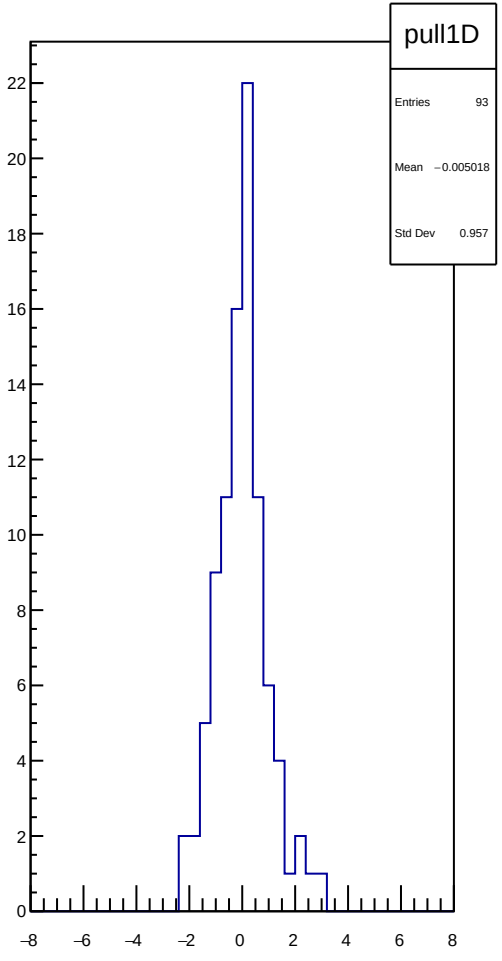

asym_usr_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.913e+04 / 92
p0 35.96 ± 0.02717
80
70
60
50
40
30
20

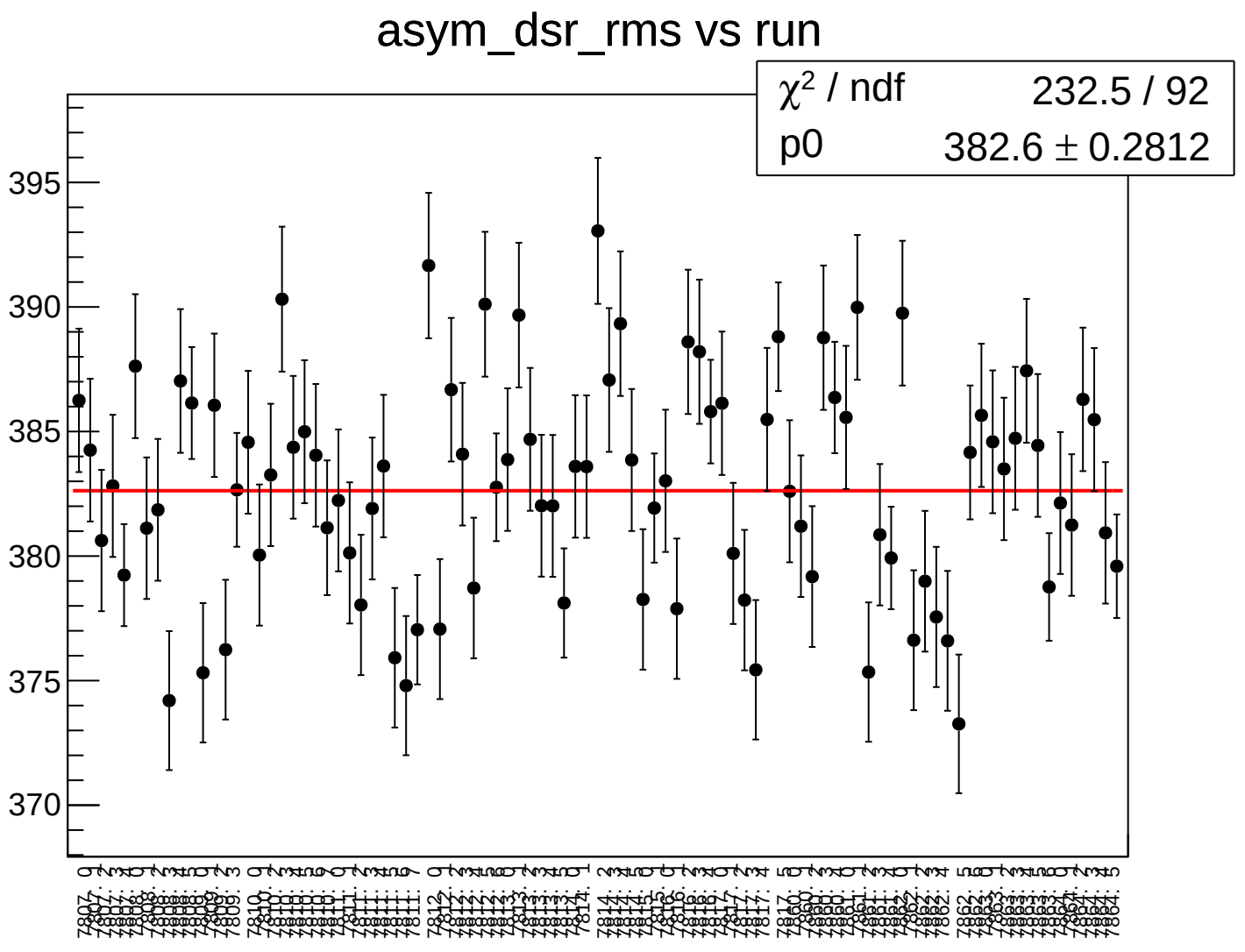

asym_dsl_mean vs run
χ² / ndf 114.8 / 92
p0 503.4 ± 318.6
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −351
Std Dev 0
2
1
0
−1
−2

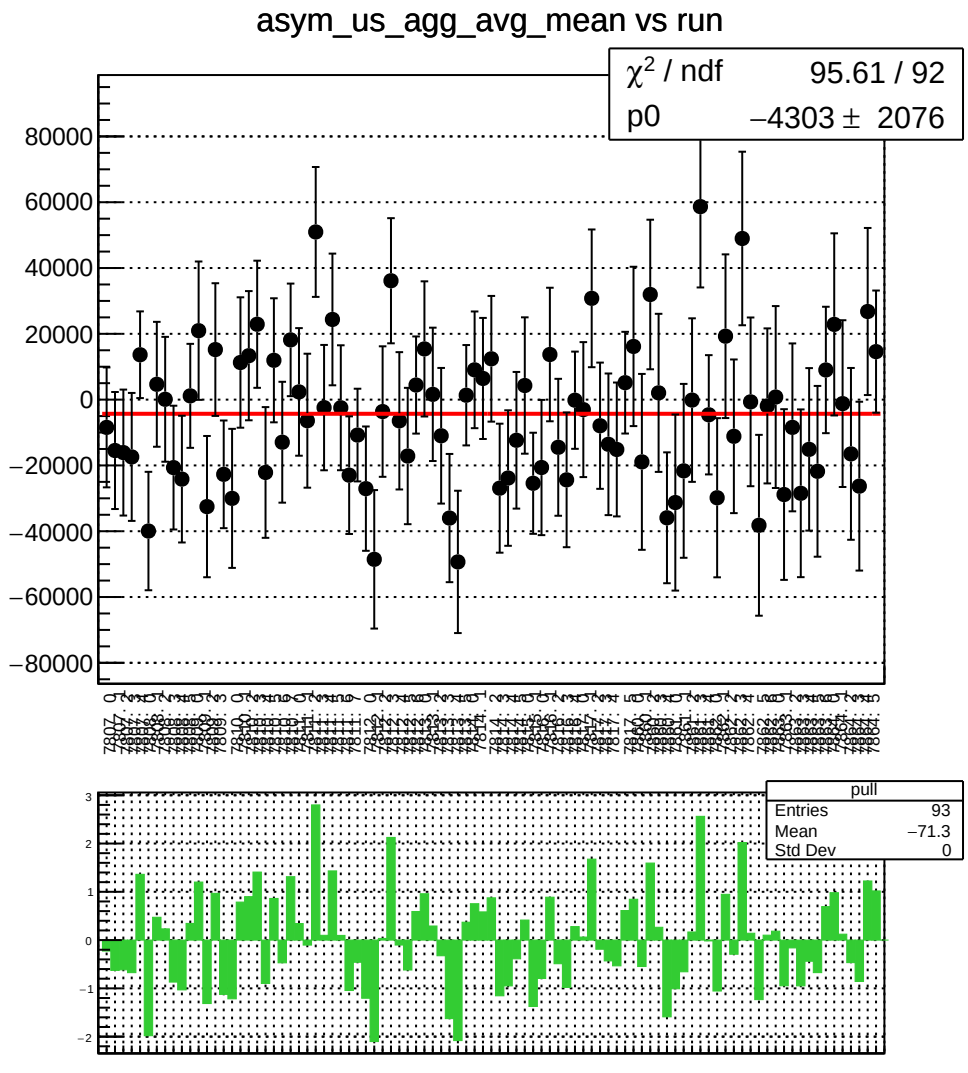

pull1D
Entries 93
Mean −0.002466
Std Dev 1.111
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

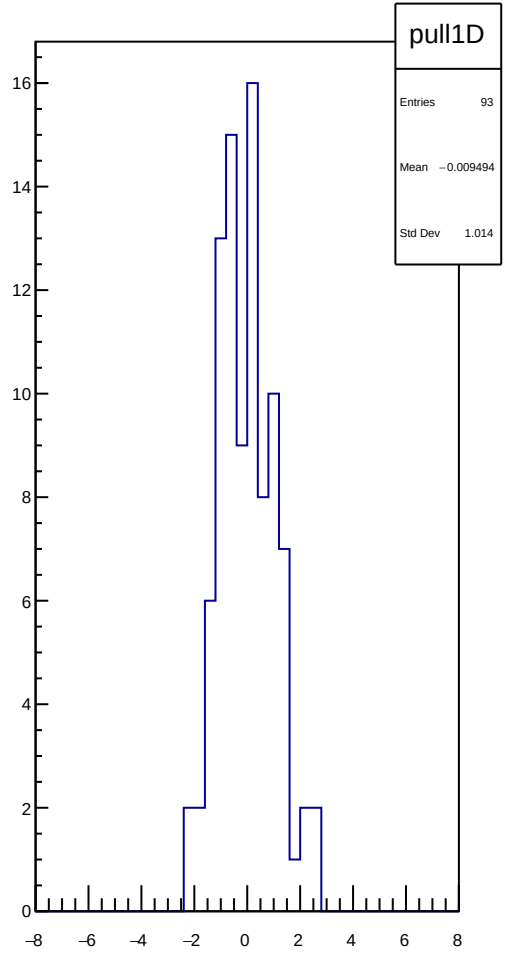

asym_dsl_rms vs run
χ² / ndf 1267 / 92
p0 306.4 ± 0.2253
330
320
310
300
290

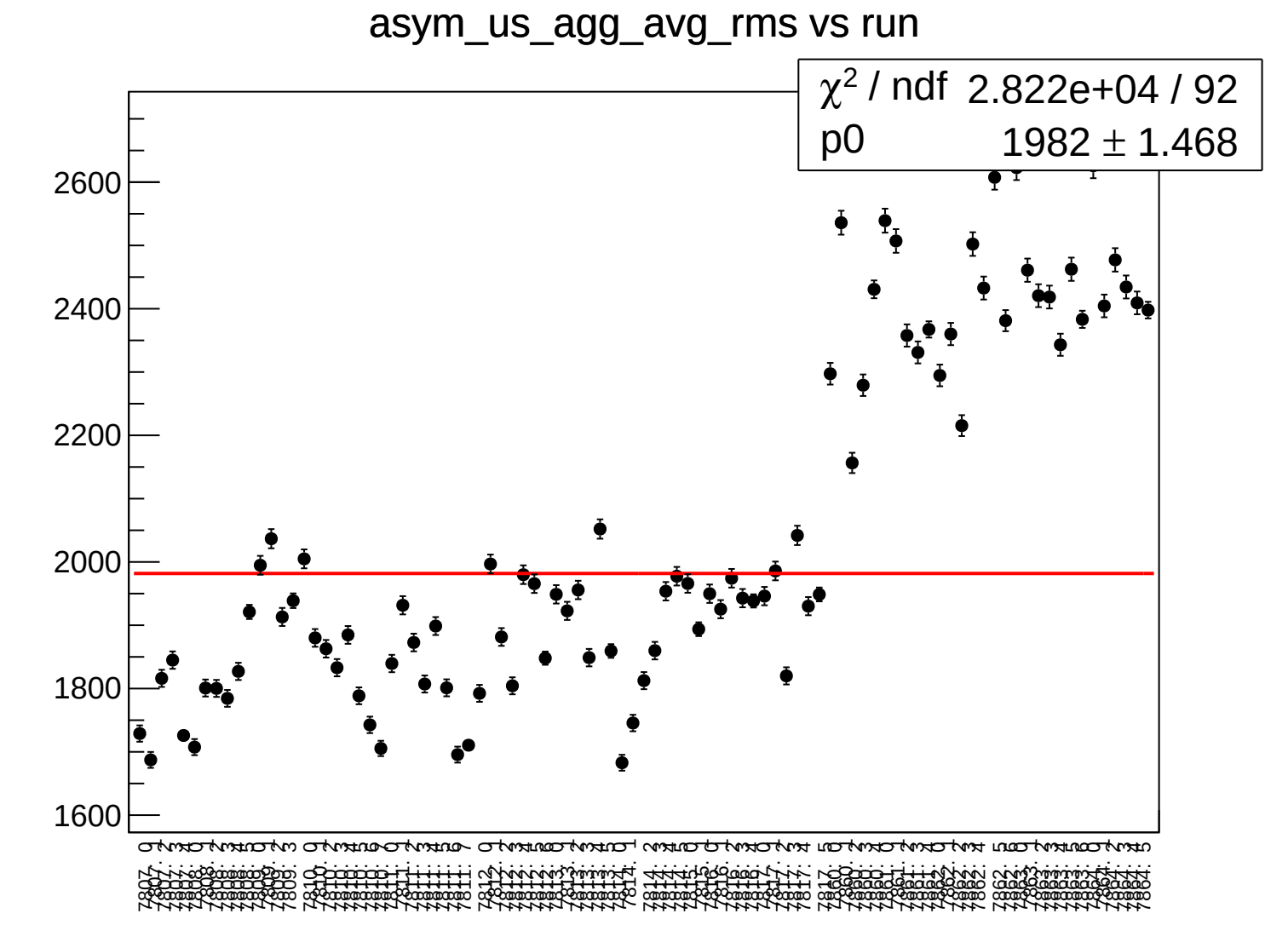

asym_dsr_mean vs run
χ² / ndf 85.18 / 92
p0 106.7 ± 397.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean −593.9
Std Dev 0
3
2
1
0
−1
−2

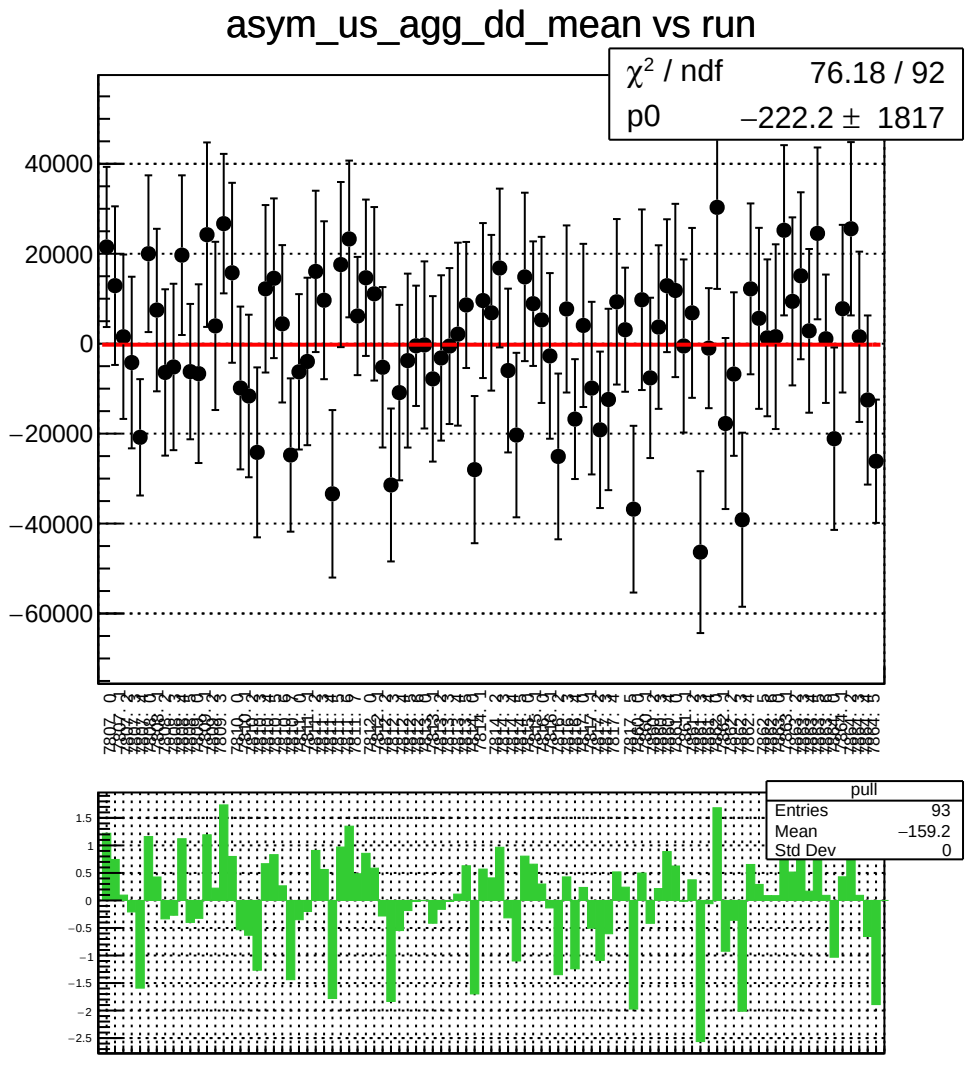

pull1D
Entries 93
Mean −0.005018
Std Dev 0.957
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

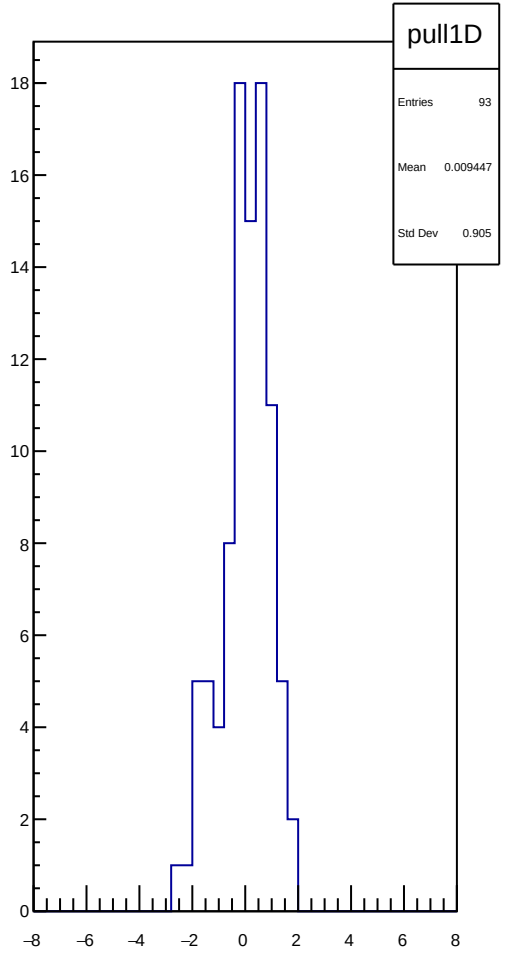

asym_dsr_rms vs run
χ^2 / ndf 232.5 / 92
p0 382.6 ± 0.2812
395
390
385
380
375
370

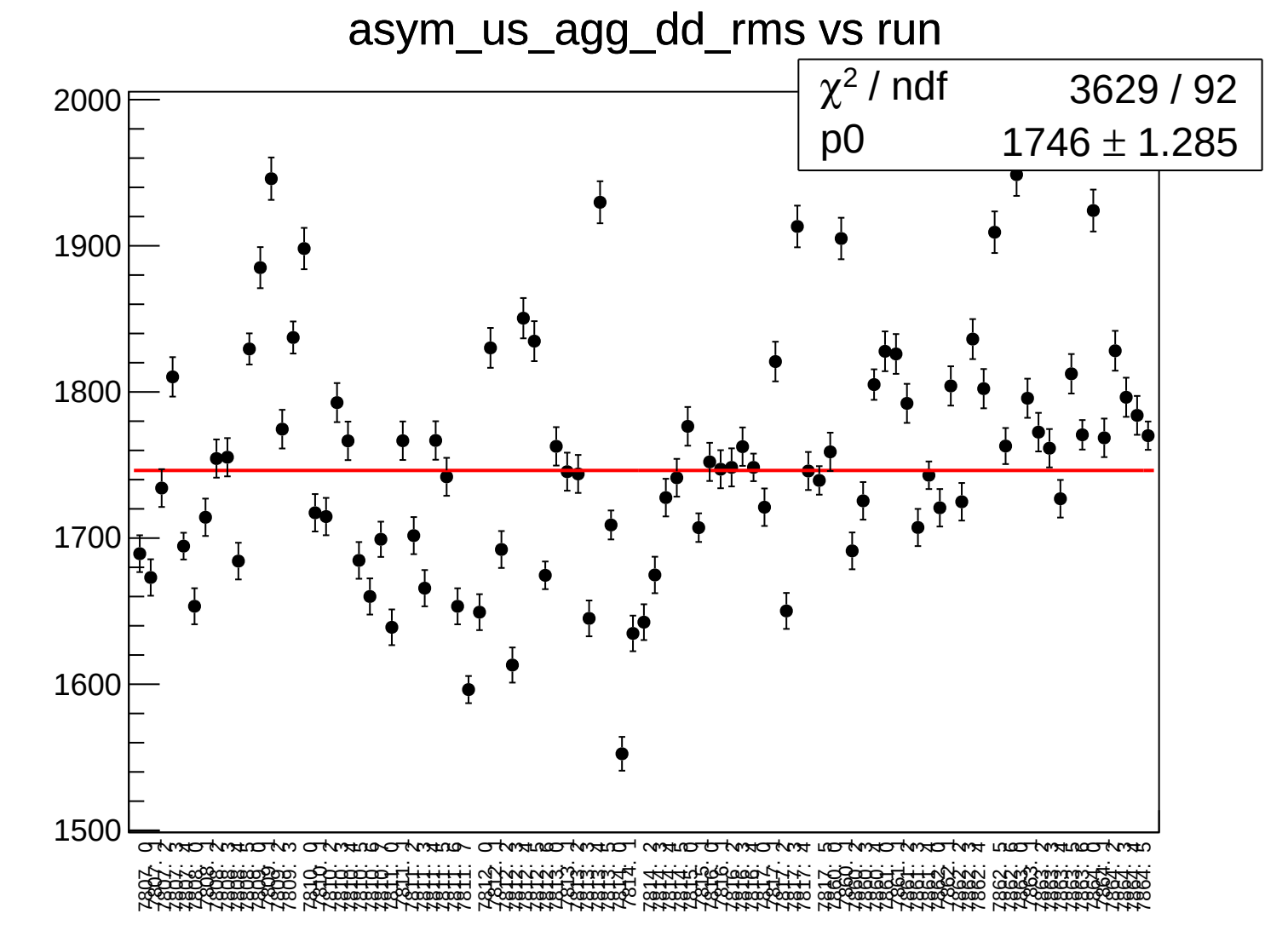

asym_us_agg_avg_mean vs run
χ² / ndf 95.61 / 92
p0 −4303 ± 2076
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean −71.3
Std Dev 0
3
2
1
0
−1
−2

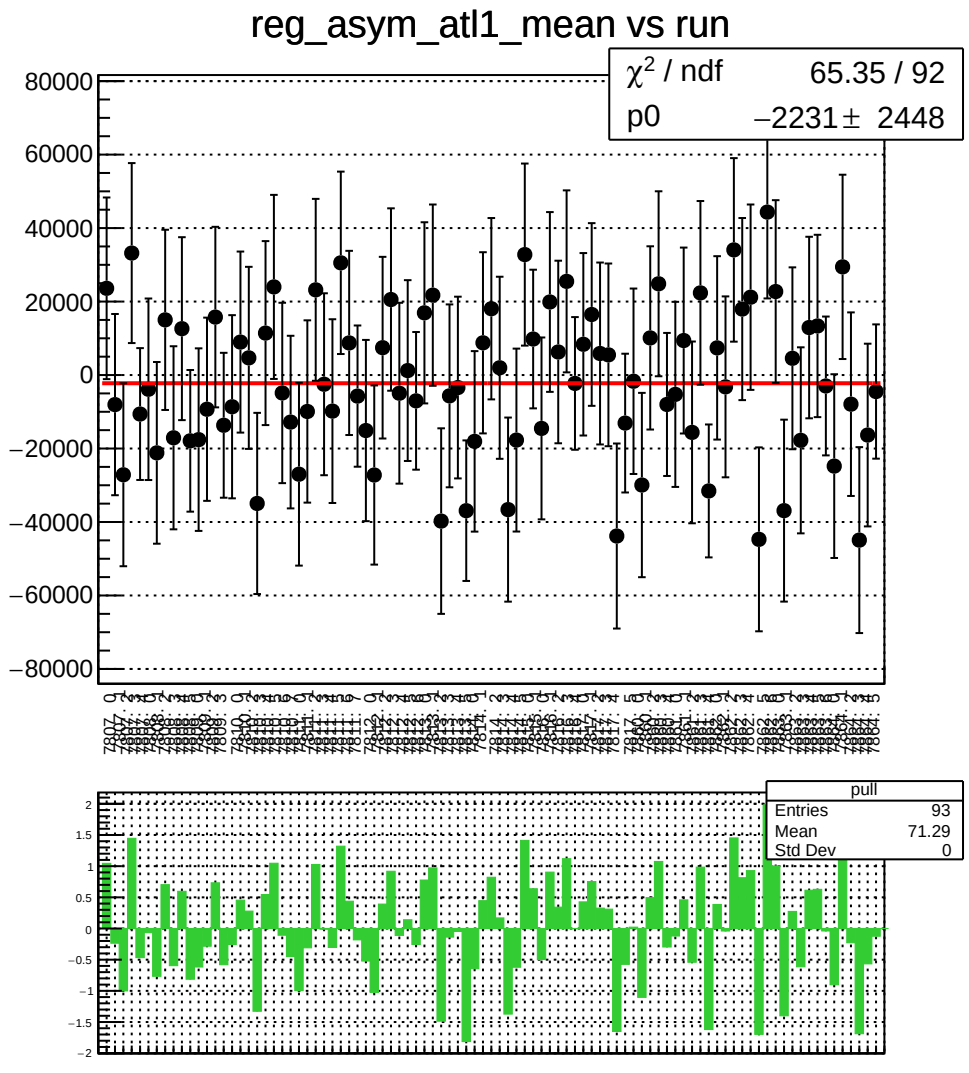

pull1D
Entries 93
Mean −0.009494
Std Dev 1.014
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

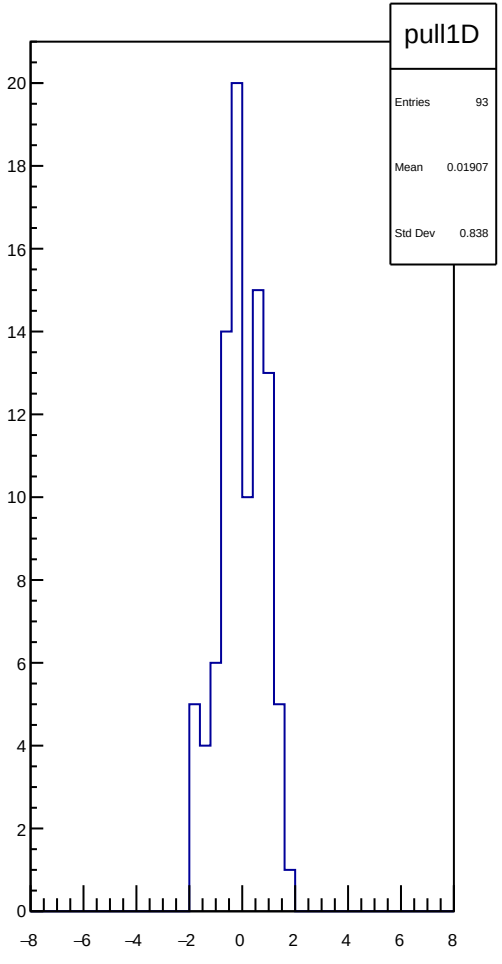

asym_us_agg_avg_rms vs run
χ^2 / ndf 2.822e+04 / 92
p0 1982 ± 1.468
2600
2400
2200
2000
1800
1600

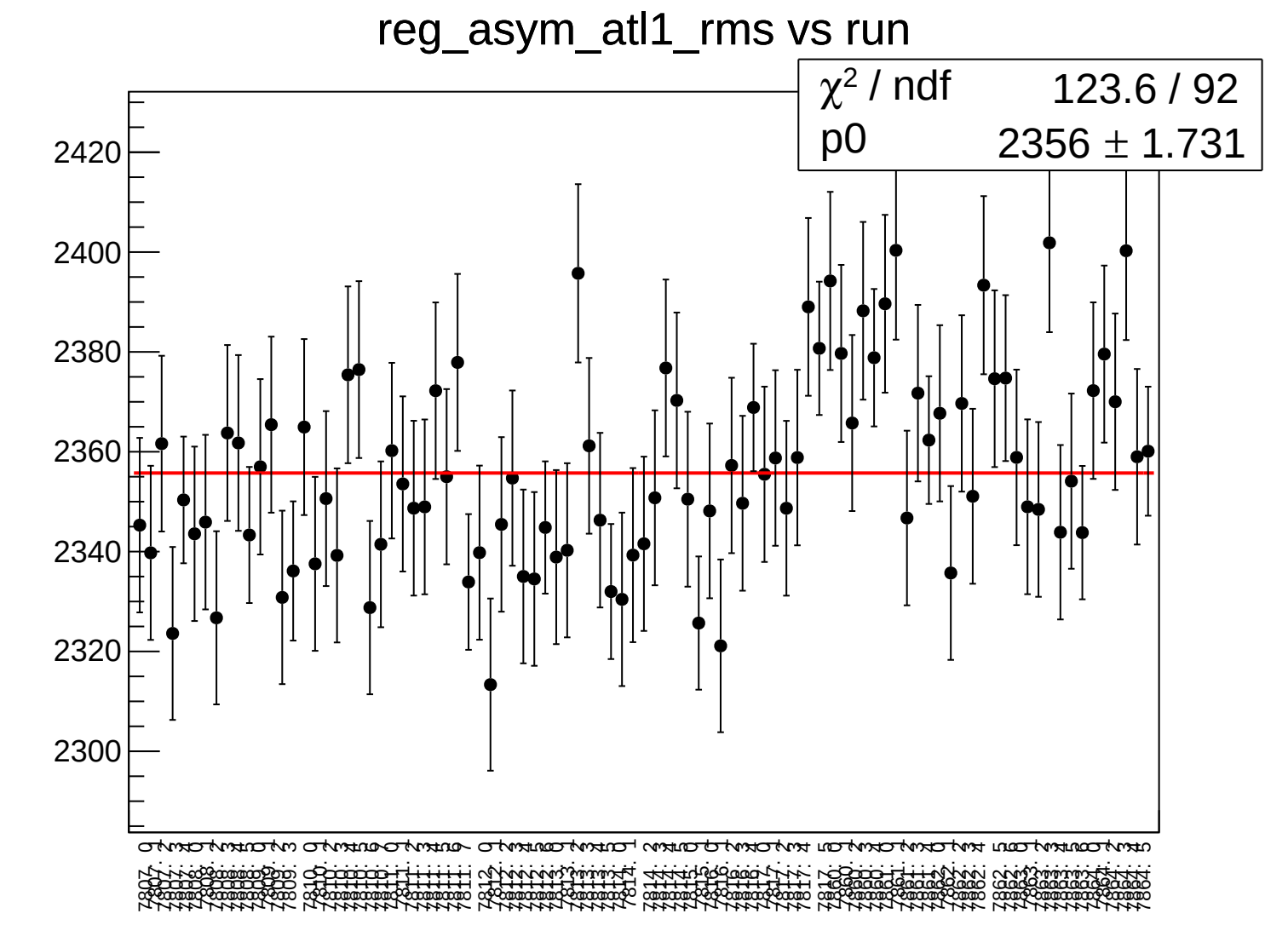

asym_us_agg_dd_mean vs run
χ² / ndf 76.18 / 92
p0 −222.2 ± 1817
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −159.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

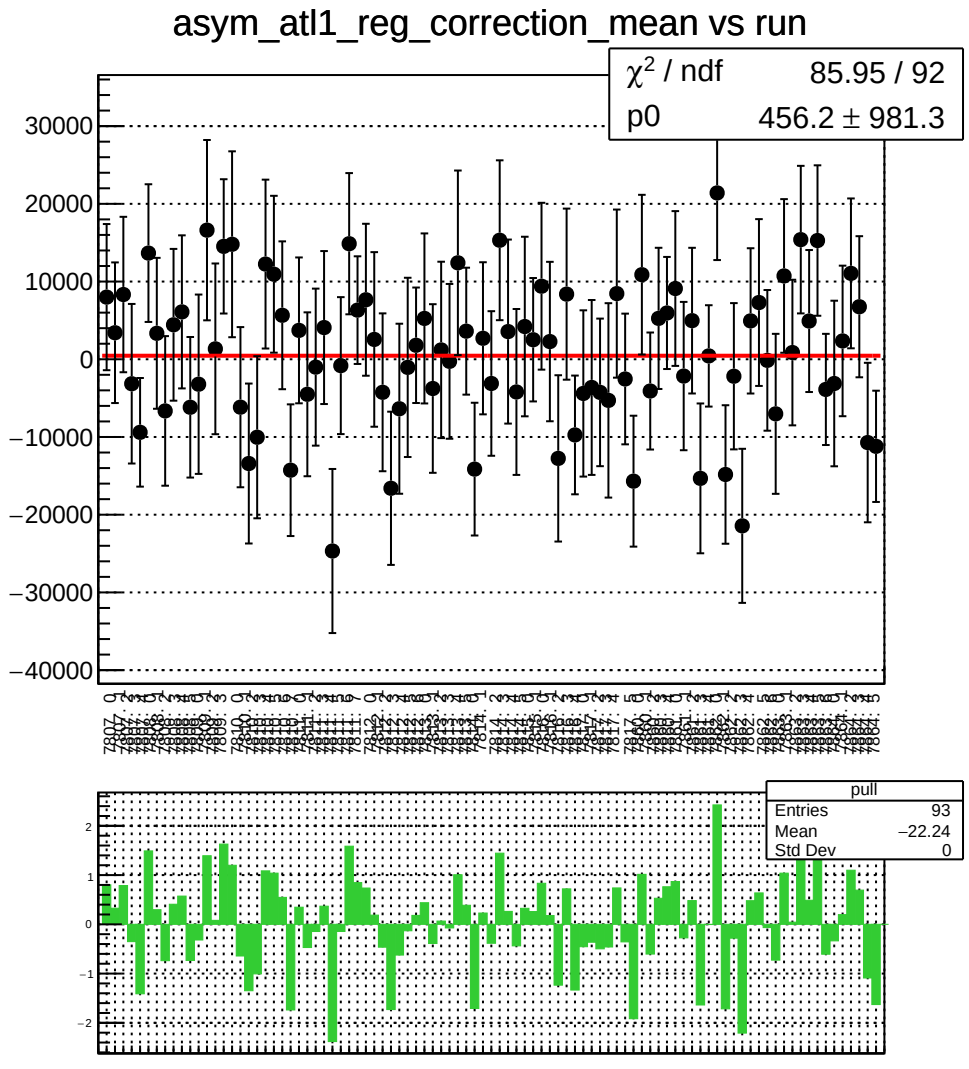

pull1D
Entries 93
Mean 0.009447
Std Dev 0.905
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

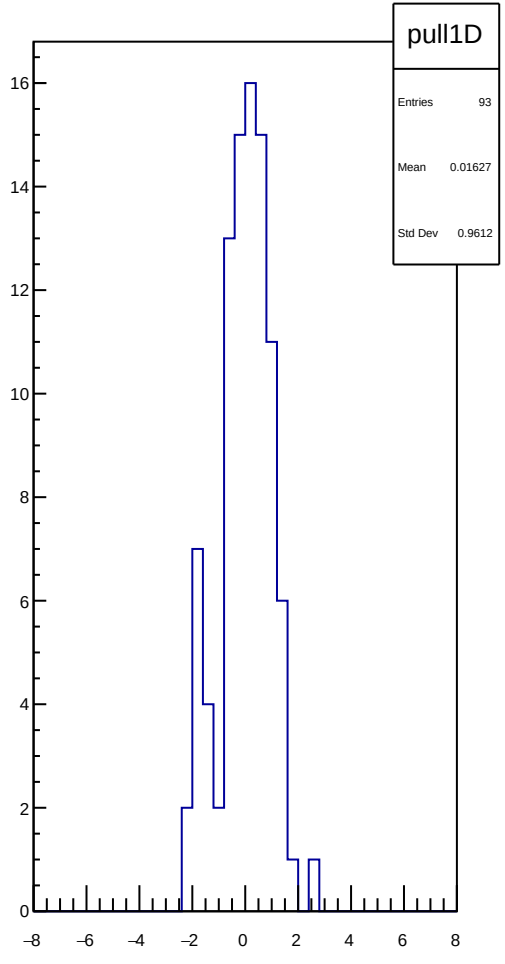

asym_us_agg_dd_rms vs run
χ² / ndf 3629 / 92
p0 1746 ± 1.285
2000
1900
1800
1700
1600
1500

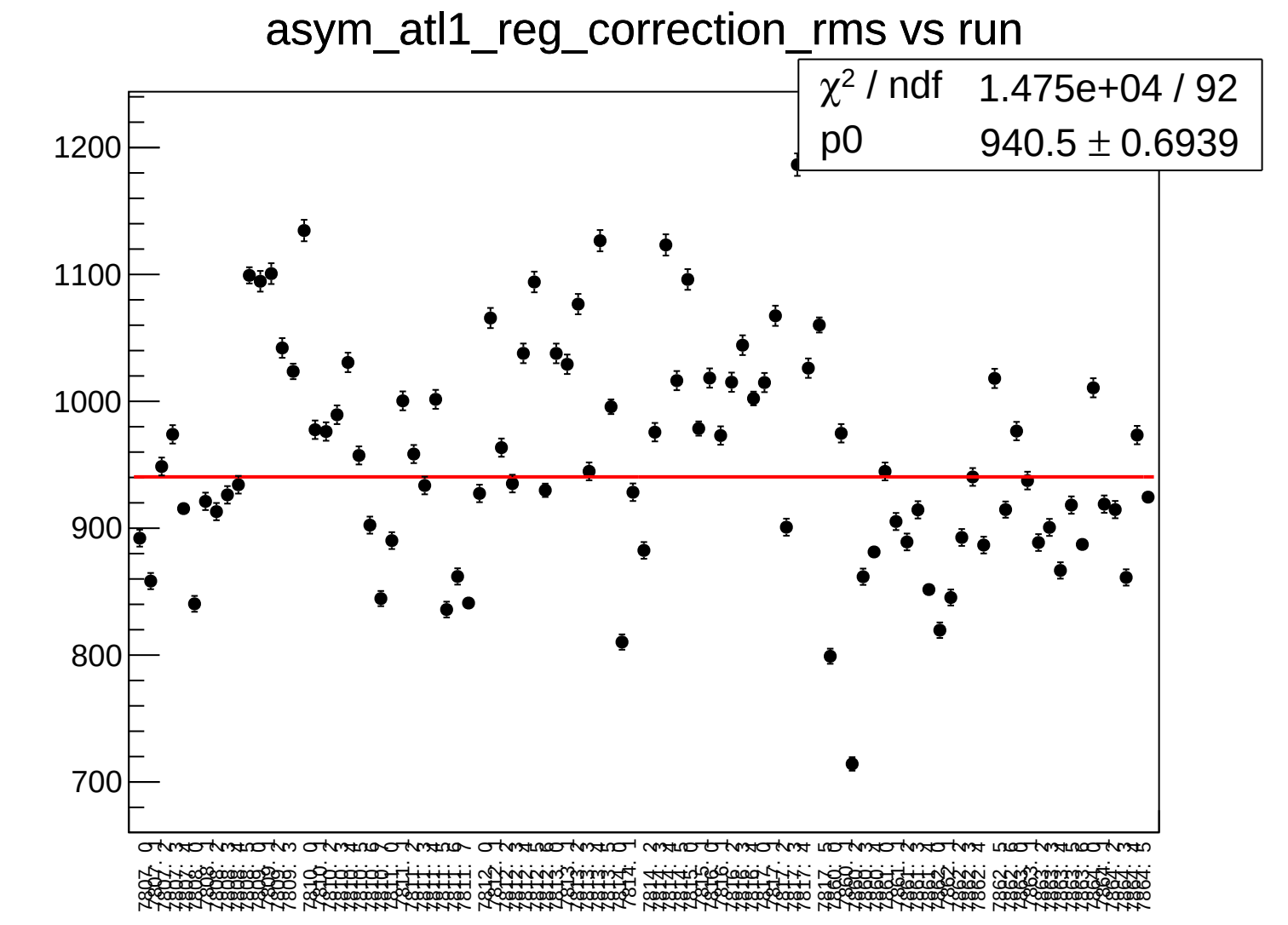

reg_asym_atl1_mean vs run
χ² / ndf 65.35 / 92
p0 −2231 ± 2448
pull
Entries 93
Mean 71.29
Std Dev 0

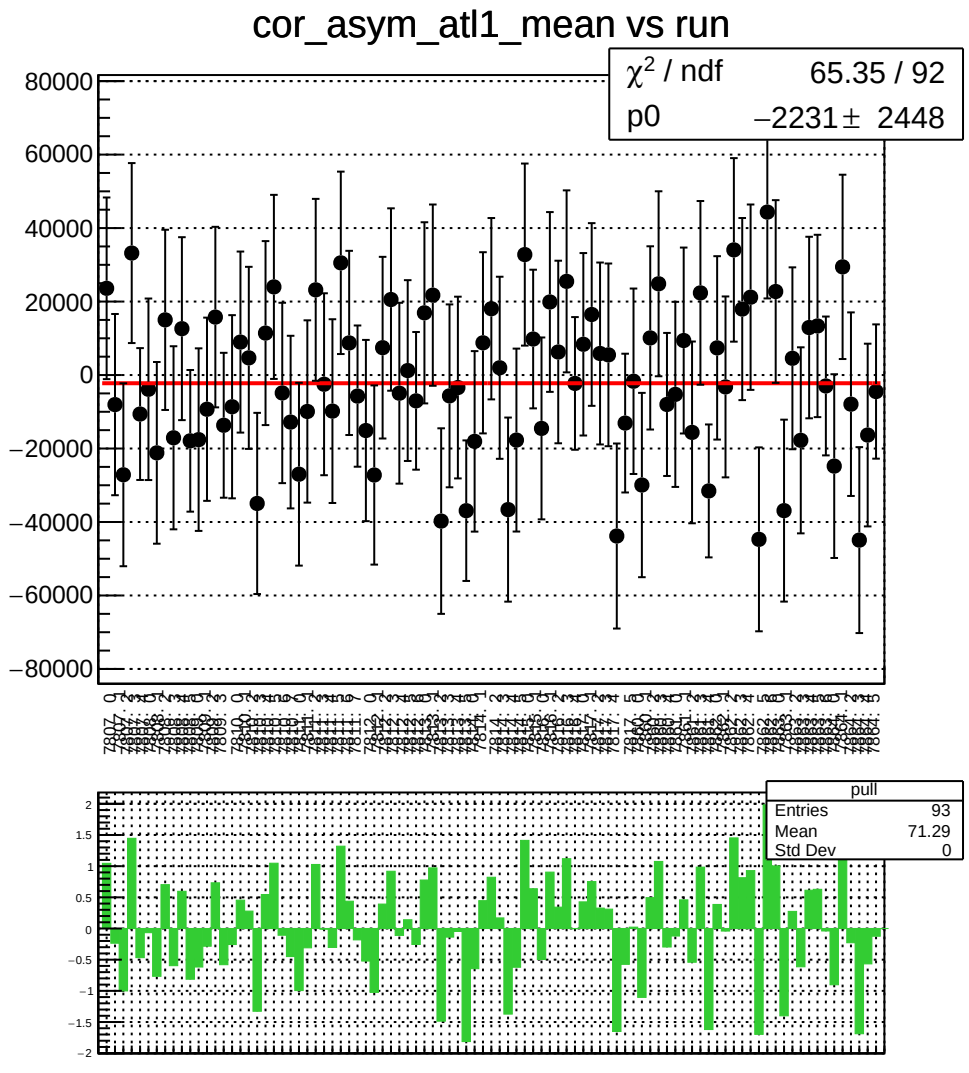

pull1D
Entries 93
Mean 0.01907
Std Dev 0.838

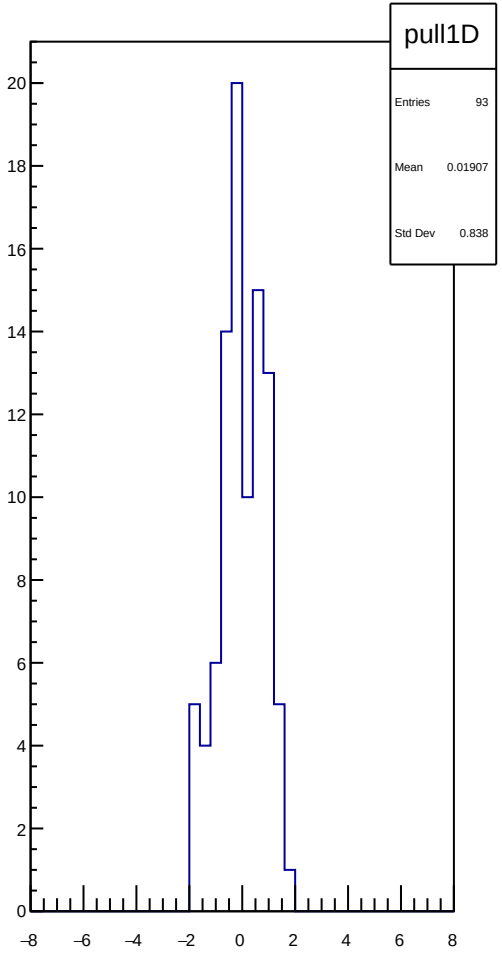

reg_asym_atl1_rms vs run
χ² / ndf 123.6 / 92
p0 2356 ± 1.731
2420
2400
2380
2360
2340
2320
2300

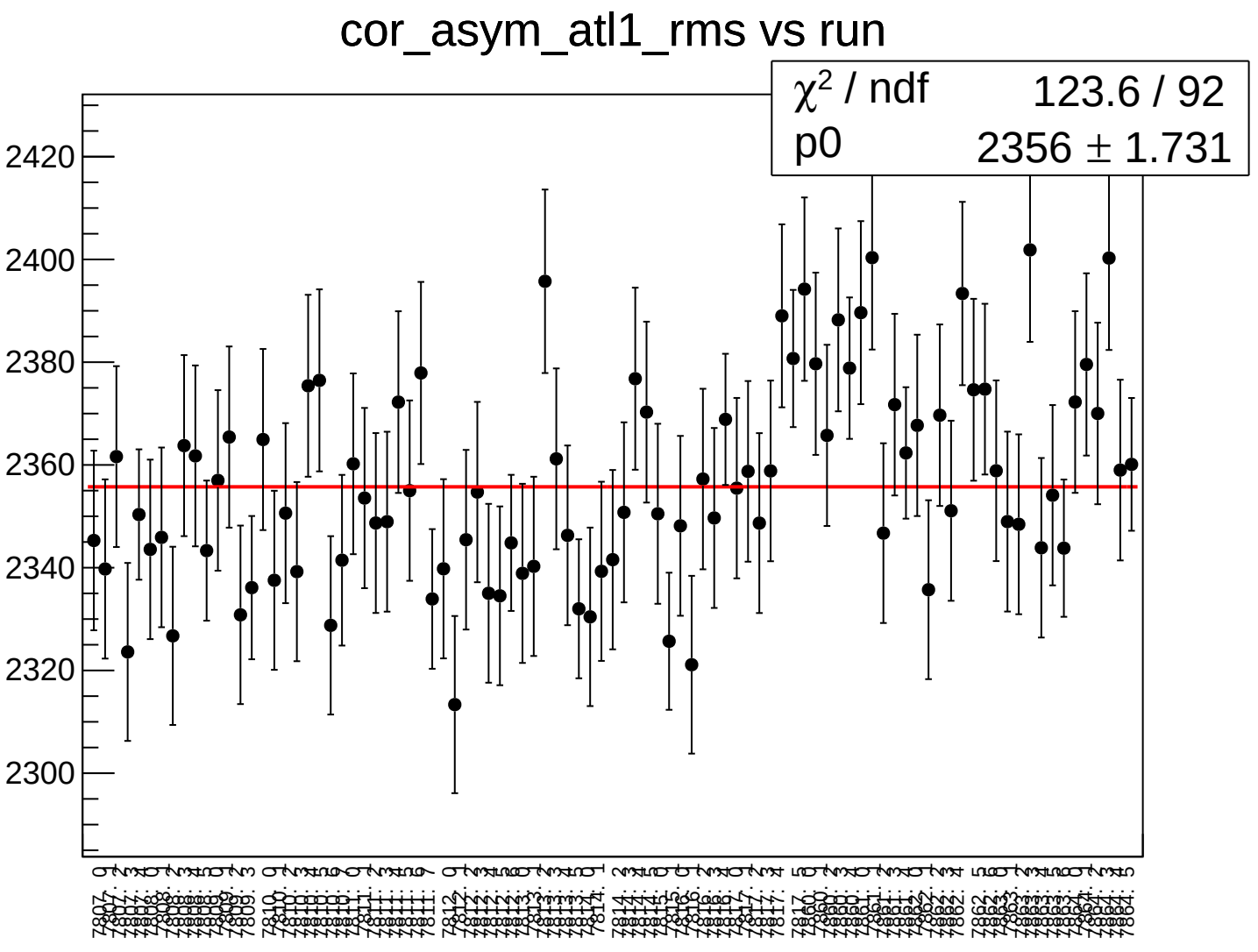

asym_atl1_reg_correction_mean vs run
χ² / ndf 85.95 / 92
p0 456.2 ± 981.3
pull
Entries 93
Mean −22.24
Std Dev 0

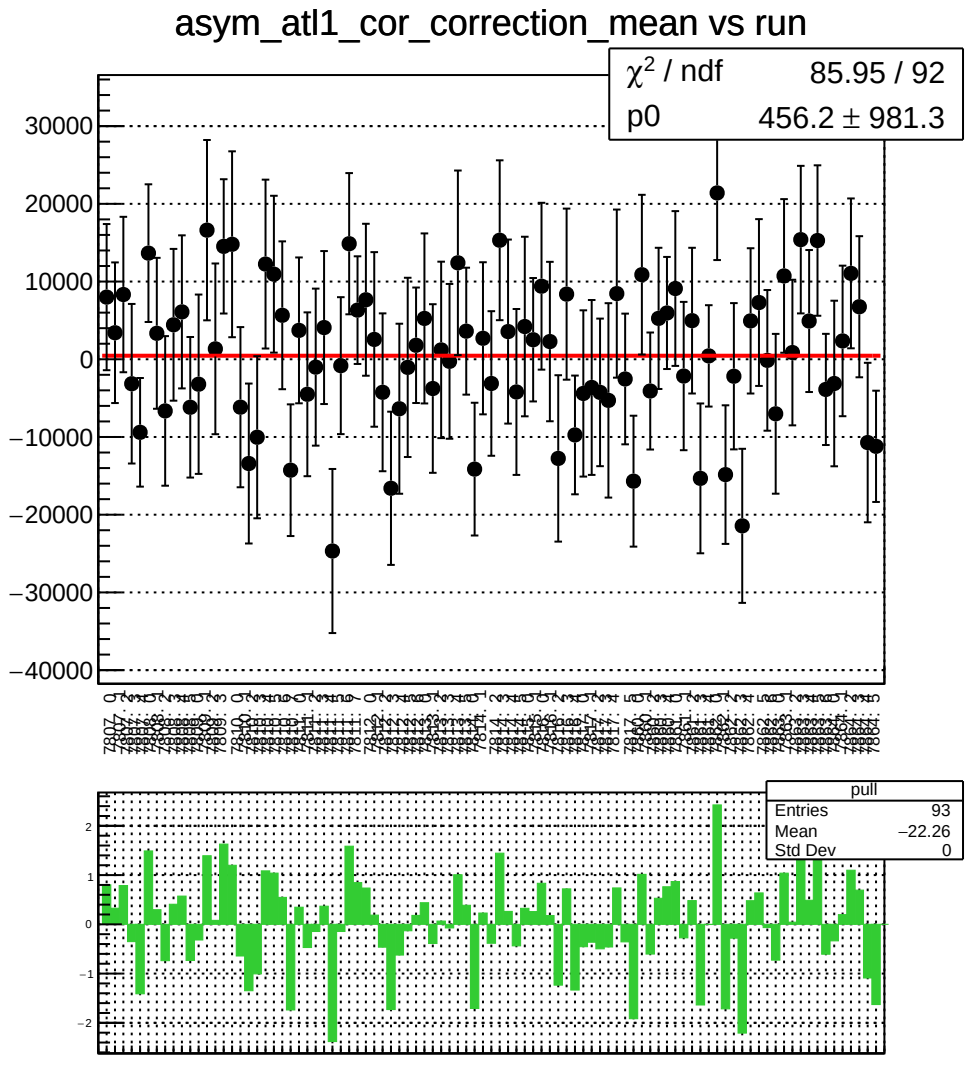

pull1D
Entries 93
Mean 0.01627
Std Dev 0.9612

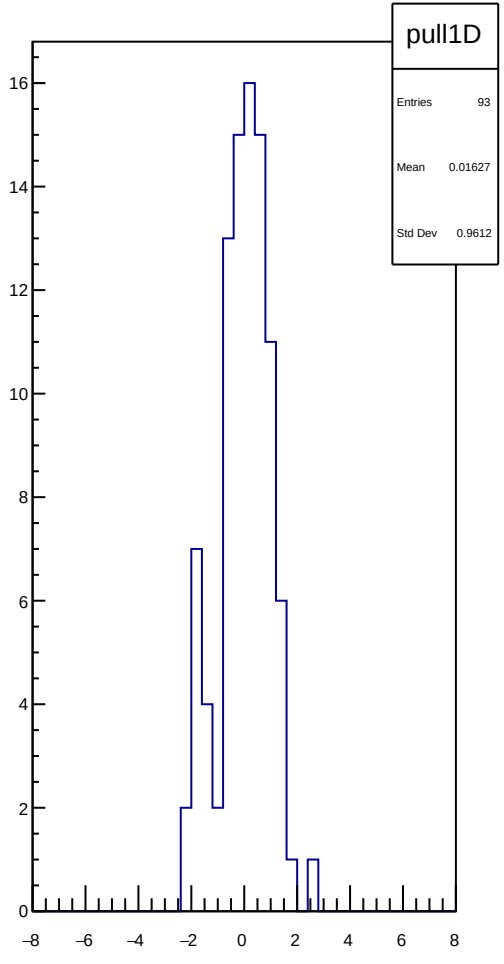

asym_atl1_reg_correction_rms vs run
χ² / ndf 1.475e+04 / 92
p0 940.5 ± 0.6939
1200
1100
1000
900
800
700

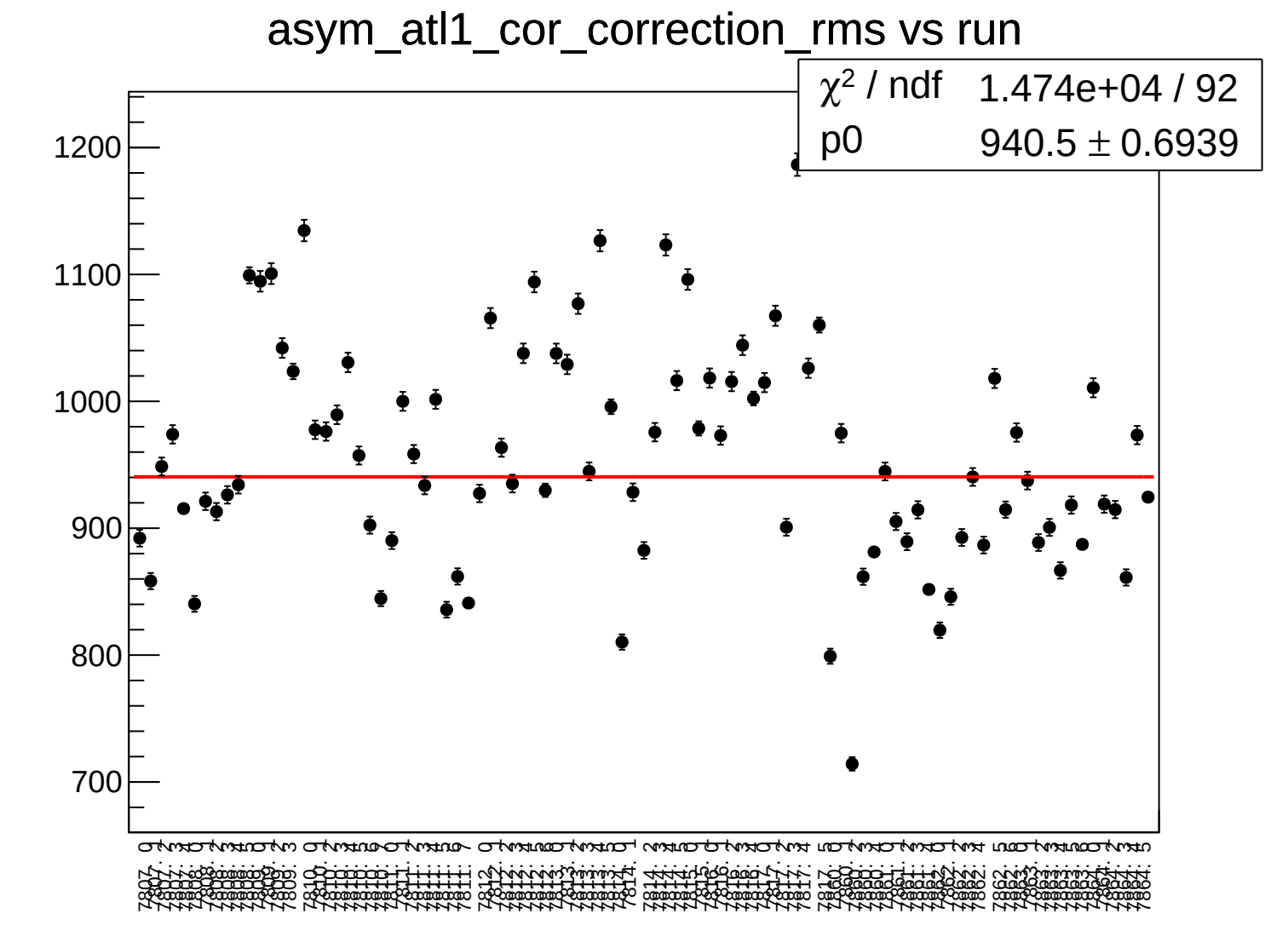

cor_asym_atl1_mean vs run
χ² / ndf 65.35 / 92
p0 −2231 ± 2448
pull
Entries 93
Mean 71.29
Std Dev 0

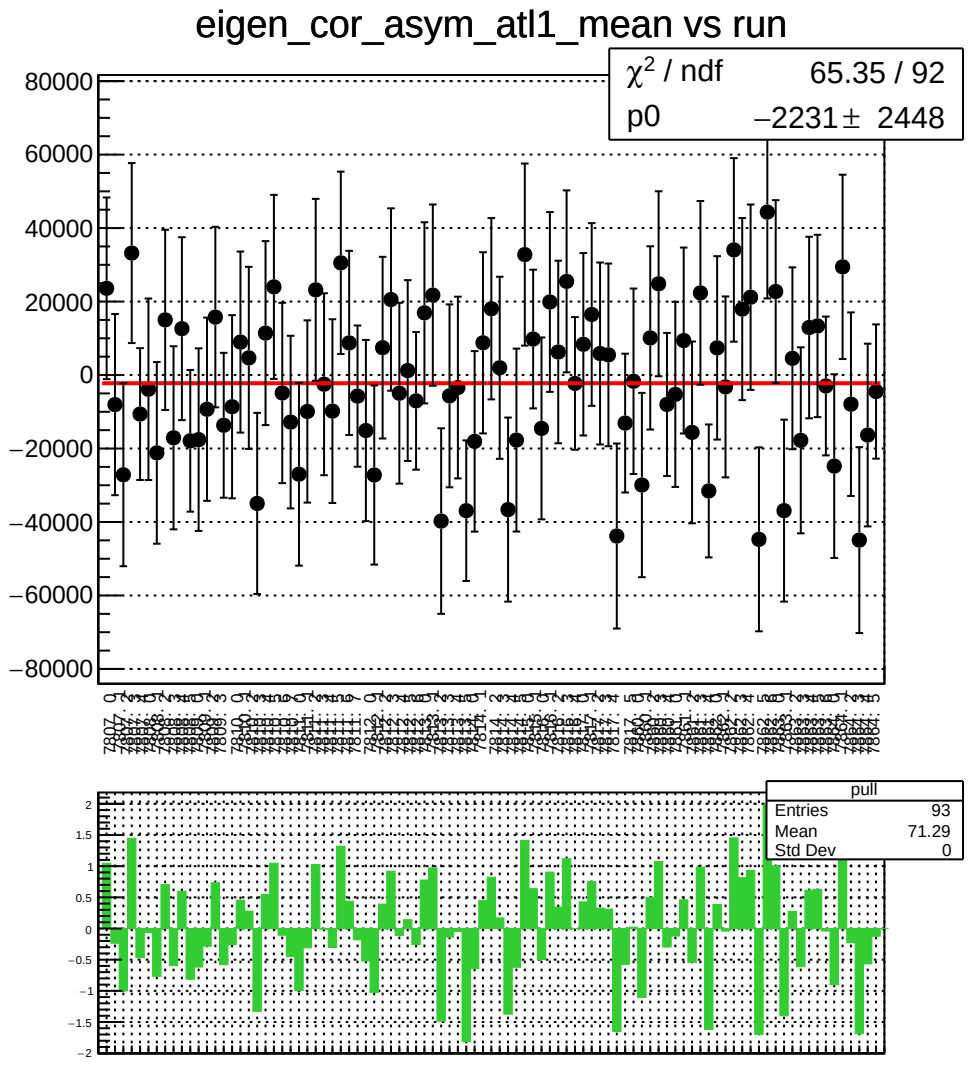

pull1D
Entries 93
Mean 0.01907
Std Dev 0.838

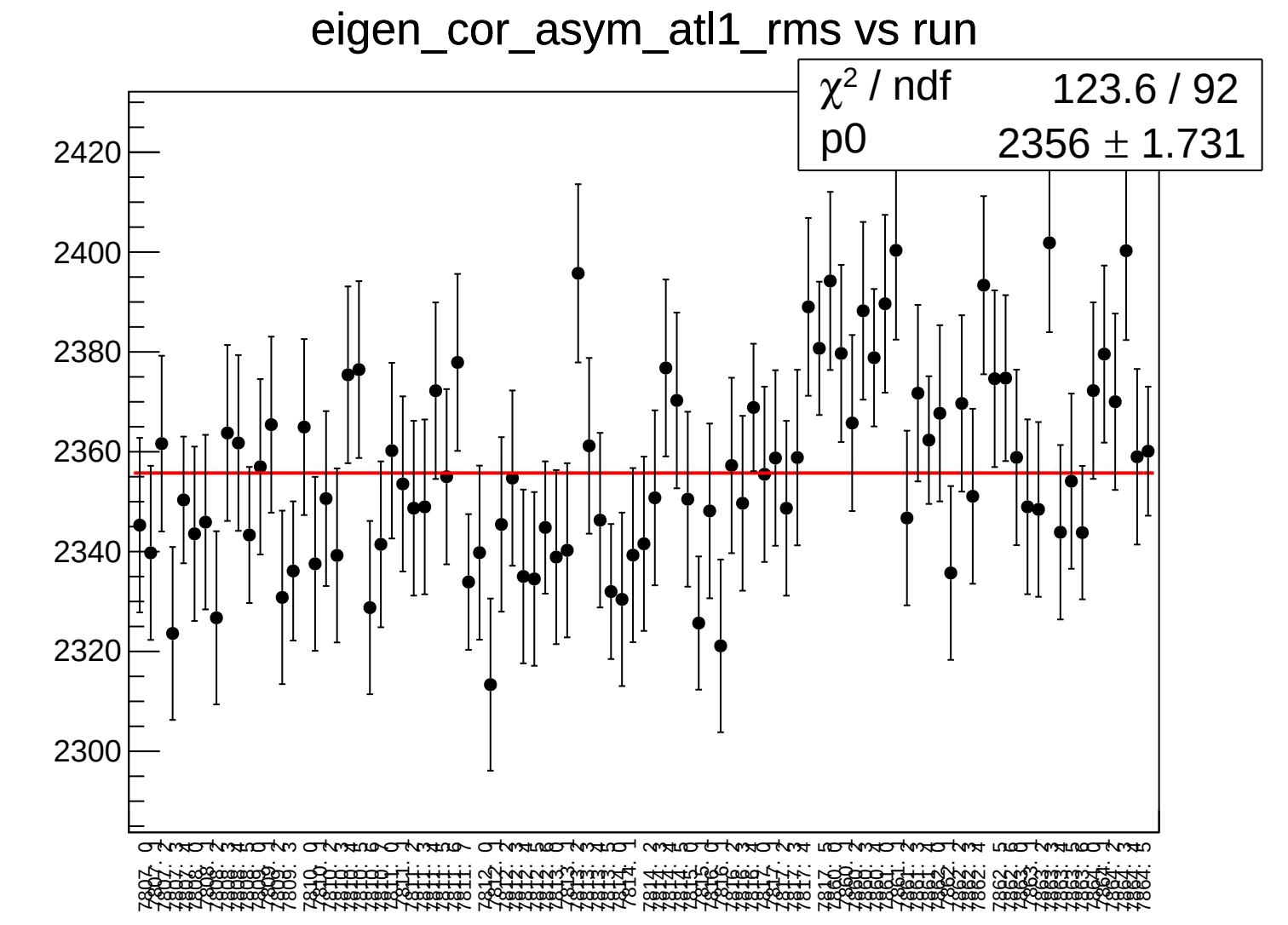

cor_asym_atl1_rms vs run
χ² / ndf 123.6 / 92
p0 2356 ± 1.731
2420
2400
2380
2360
2340
2320
2300

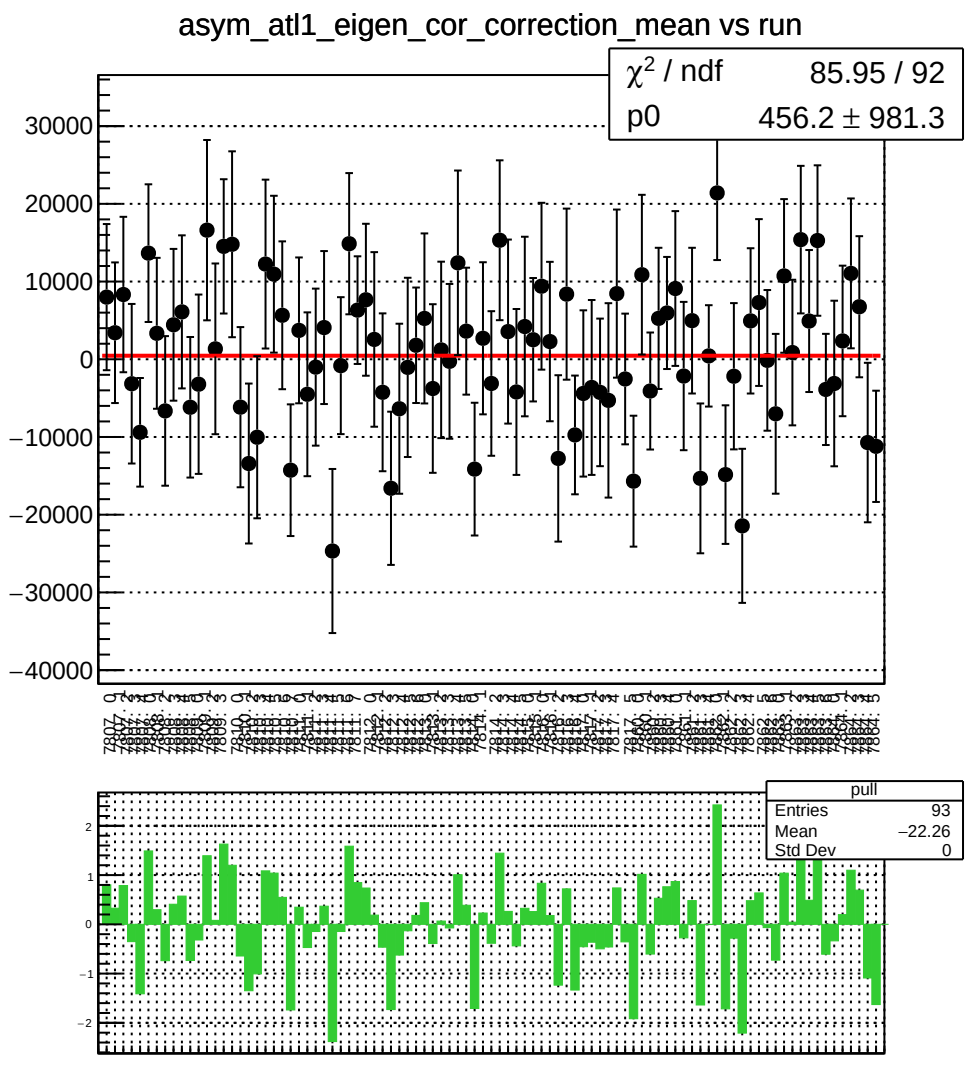

asym_atl1_cor_correction_mean vs run
χ² / ndf 85.95 / 92
p0 456.2 ± 981.3
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean −22.26
Std Dev 0
2
1
0
−1
−2

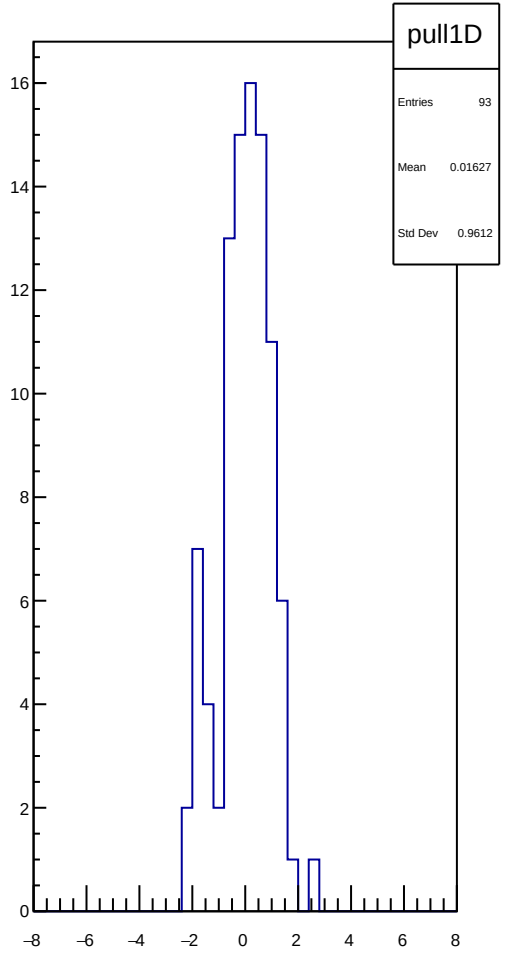

pull1D
Entries 93
Mean 0.01627
Std Dev 0.9612
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

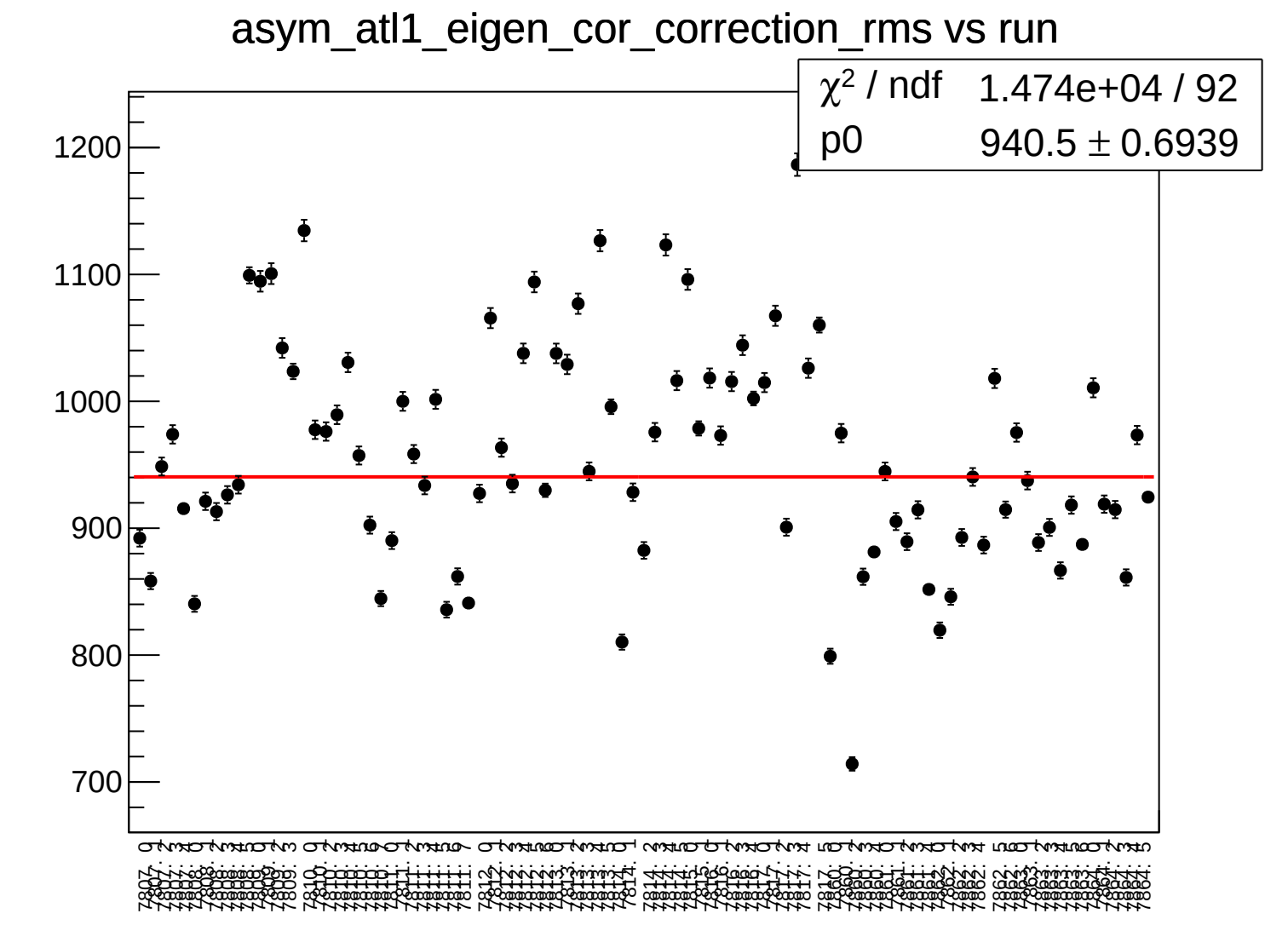

asym_atl1_cor_correction_rms vs run
χ² / ndf 1.474e+04 / 92
p0 940.5 ± 0.6939
1200
1100
1000
900
800
700

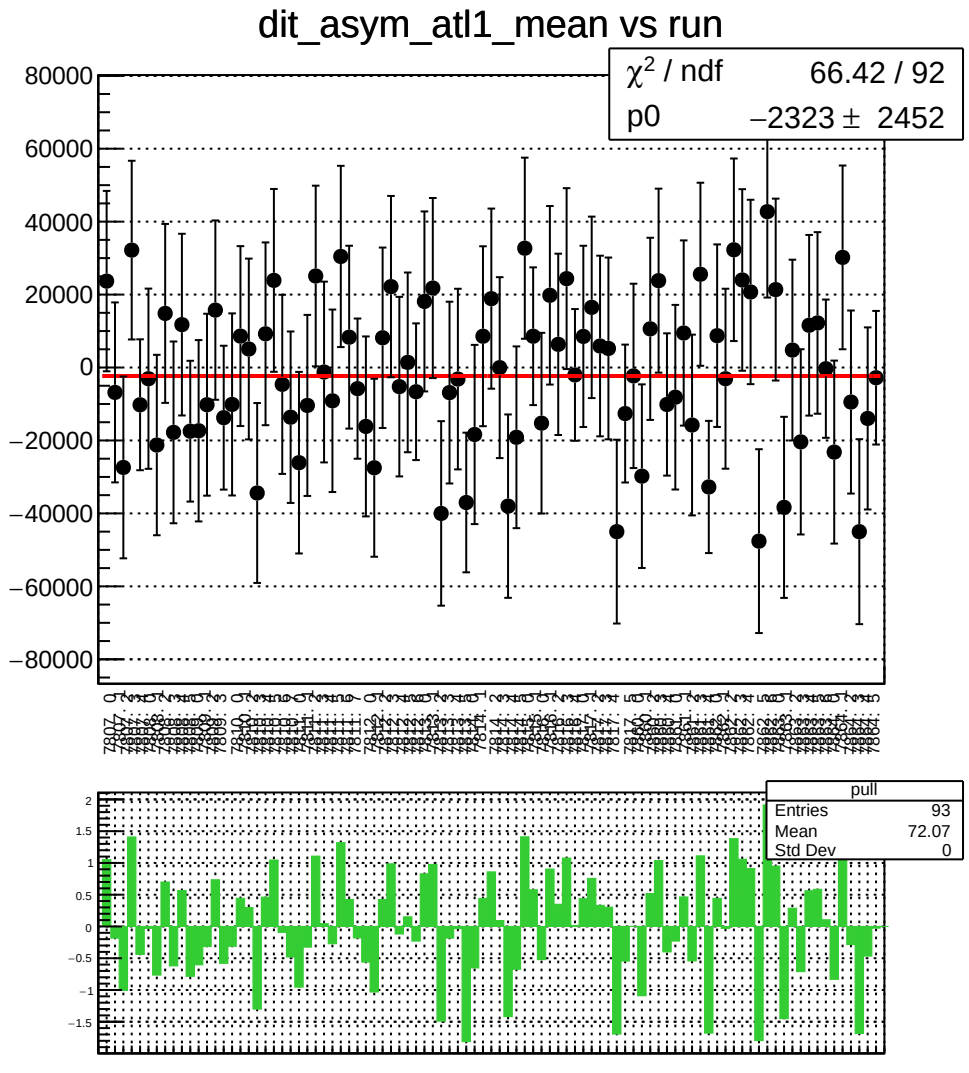

eigen_cor_asym_atl1_mean vs run
χ² / ndf 65.35 / 92
p0 −2231 ± 2448
pull
Entries 93
Mean 71.29
Std Dev 0
pull1D
Entries 93
Mean 0.01907
Std Dev 0.838

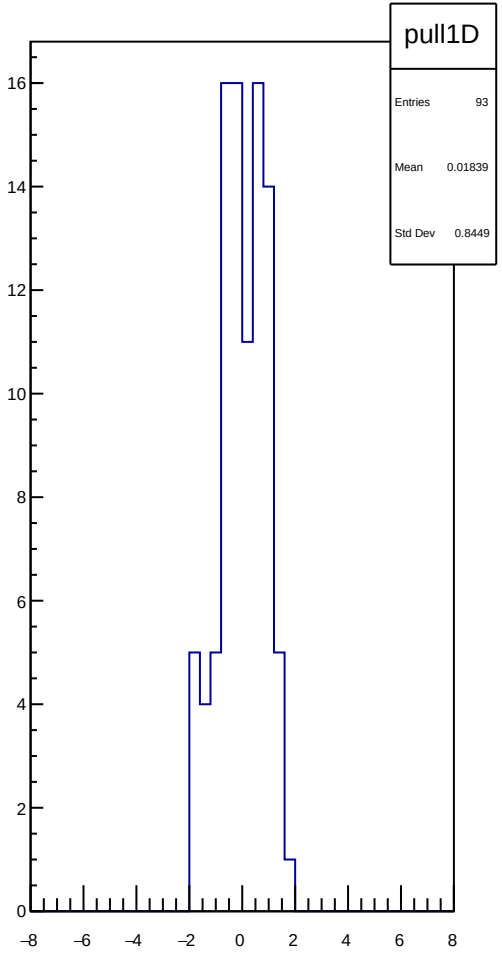

eigen_cor_asym_atl1_rms vs run
χ² / ndf 123.6 / 92
p0 2356 ± 1.731
2420
2400
2380
2360
2340
2320
2300

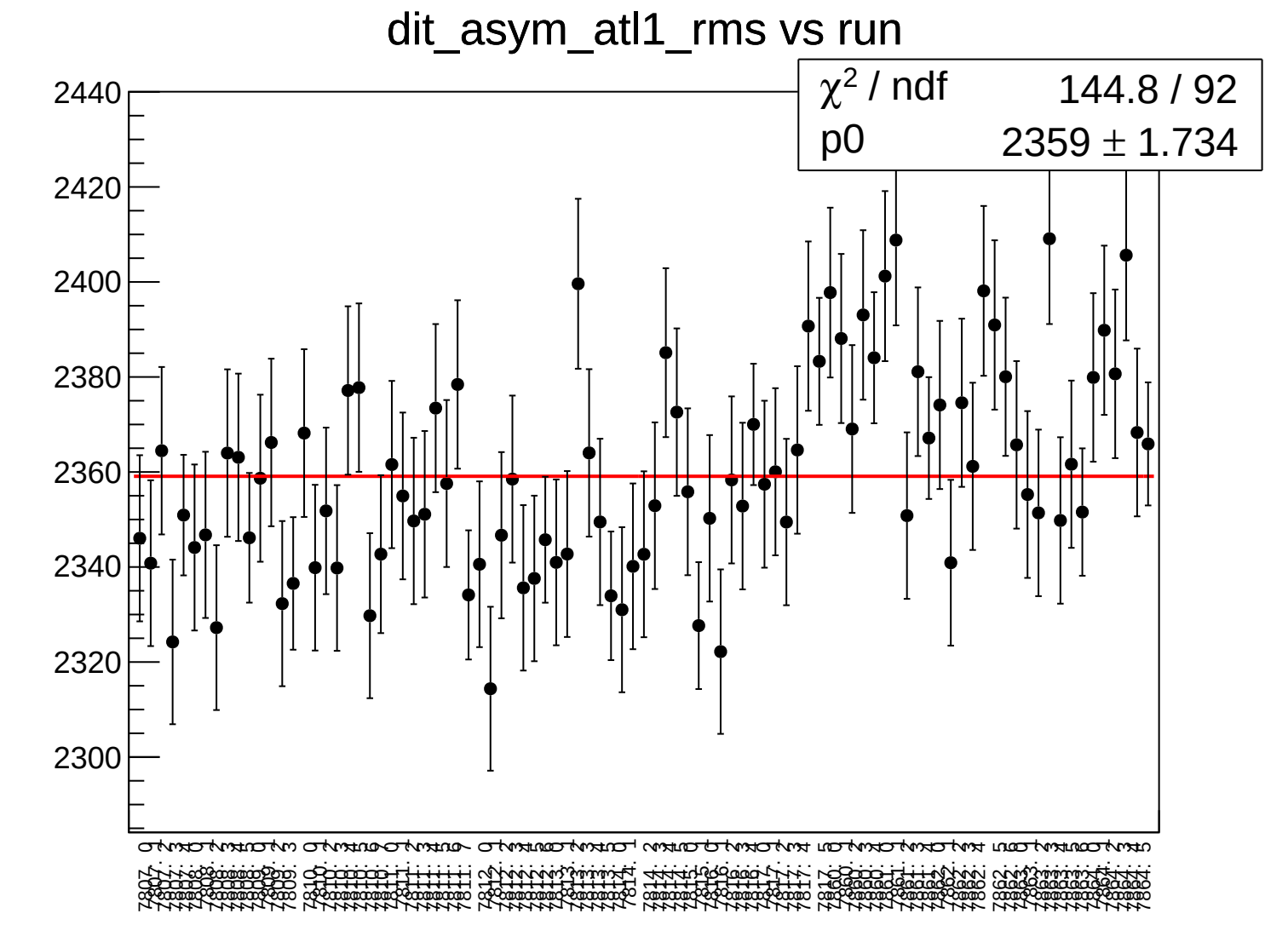

asym_atl1_eigen_cor_correction_mean vs run
χ² / ndf 85.95 / 92
p0 456.2 ± 981.3
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean −22.26
Std Dev 0
2
1
0
−1
−2

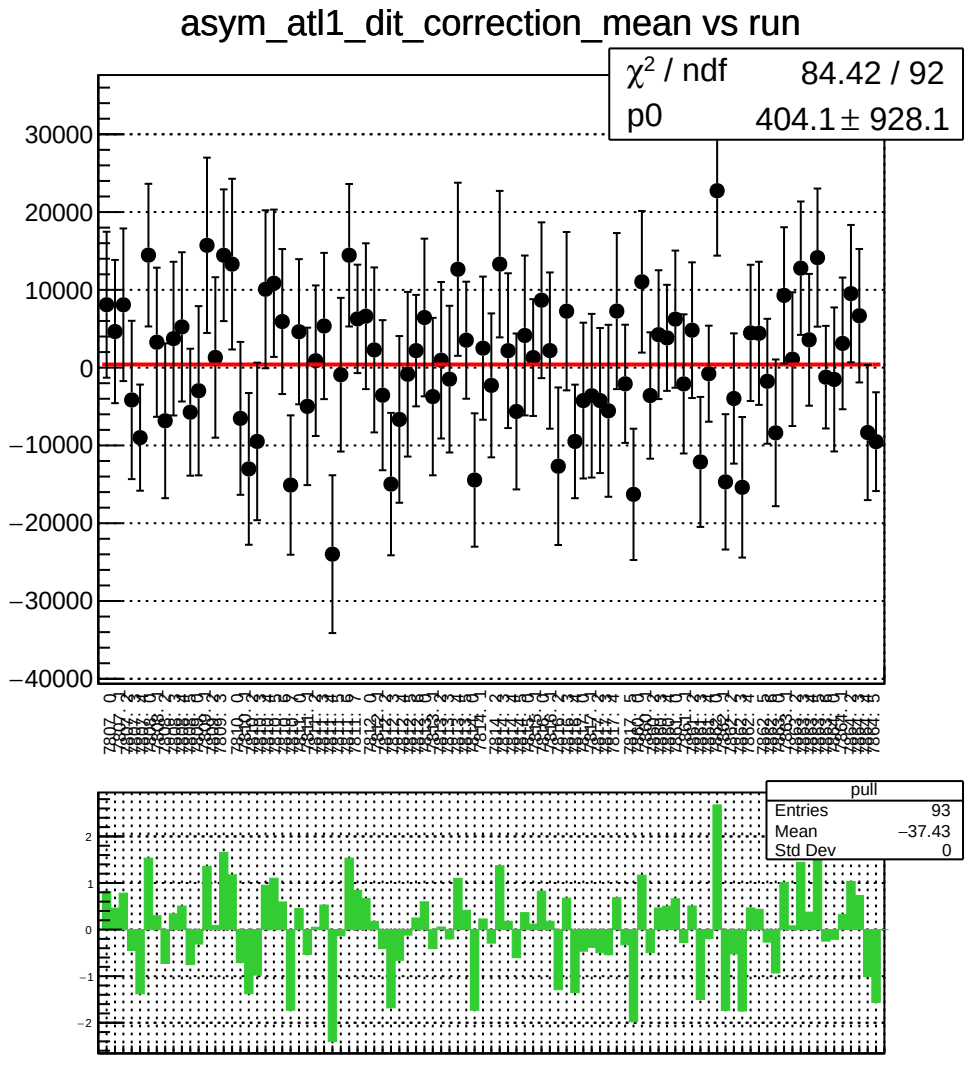

pull1D
Entries 93
Mean 0.01627
Std Dev 0.9612
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

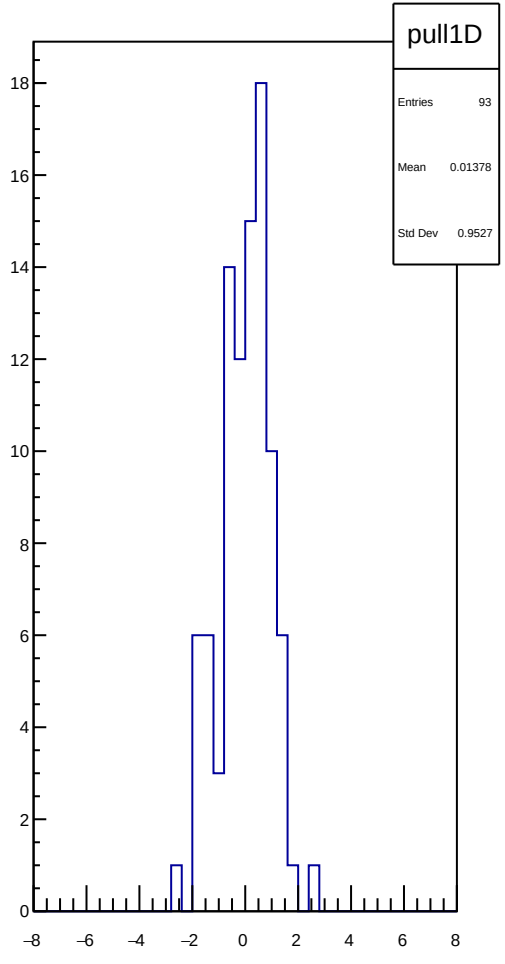

asym_atl1_eigen_cor_correction_rms vs run
χ² / ndf 1.474e+04 / 92
p0 940.5 ± 0.6939
1200
1100
1000
900
800
700

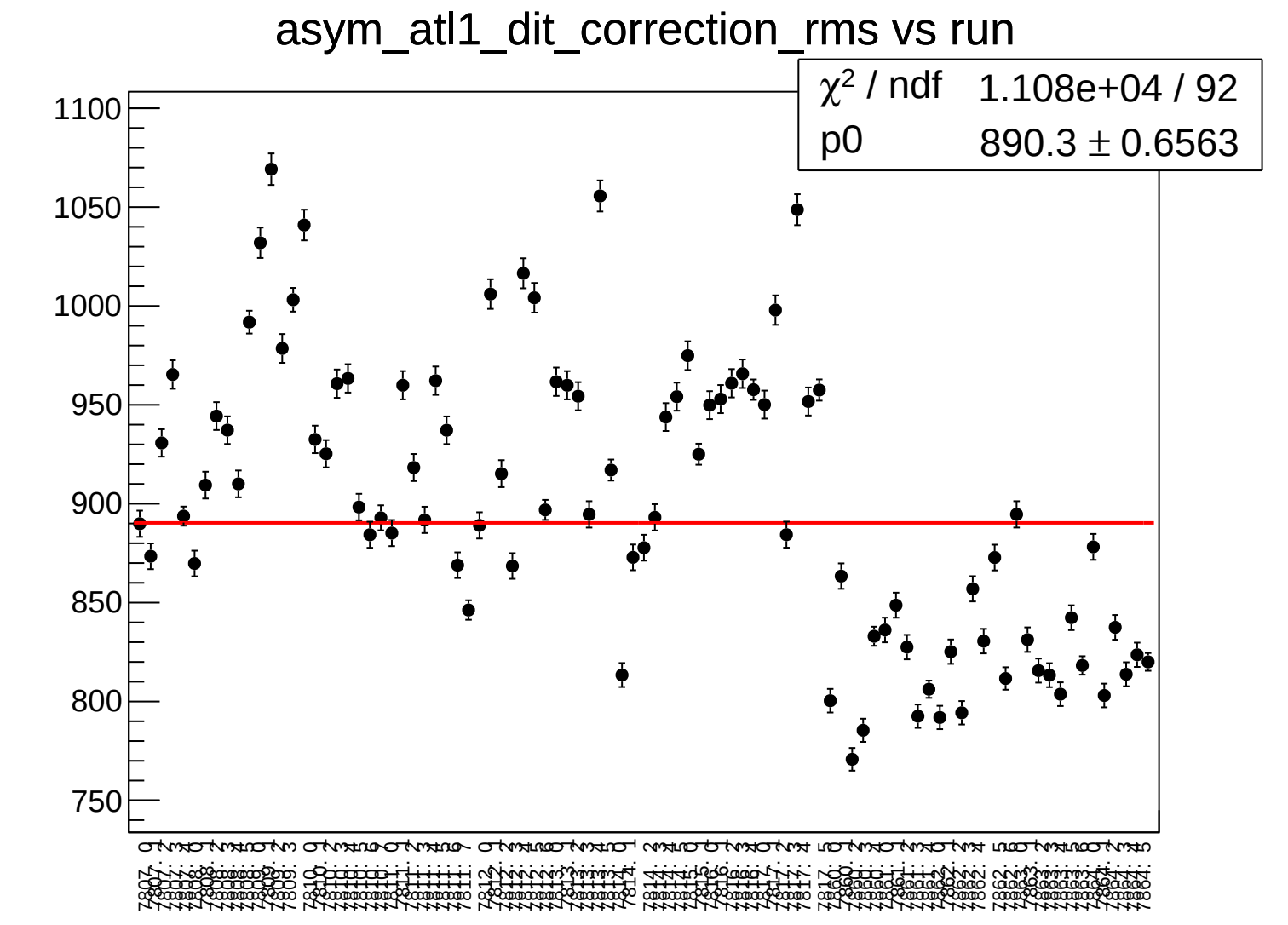

dit_asym_atl1_mean vs run
χ² / ndf 66.42 / 92
p0 −2323 ± 2452
pull
Entries 93
Mean 72.07
Std Dev 0

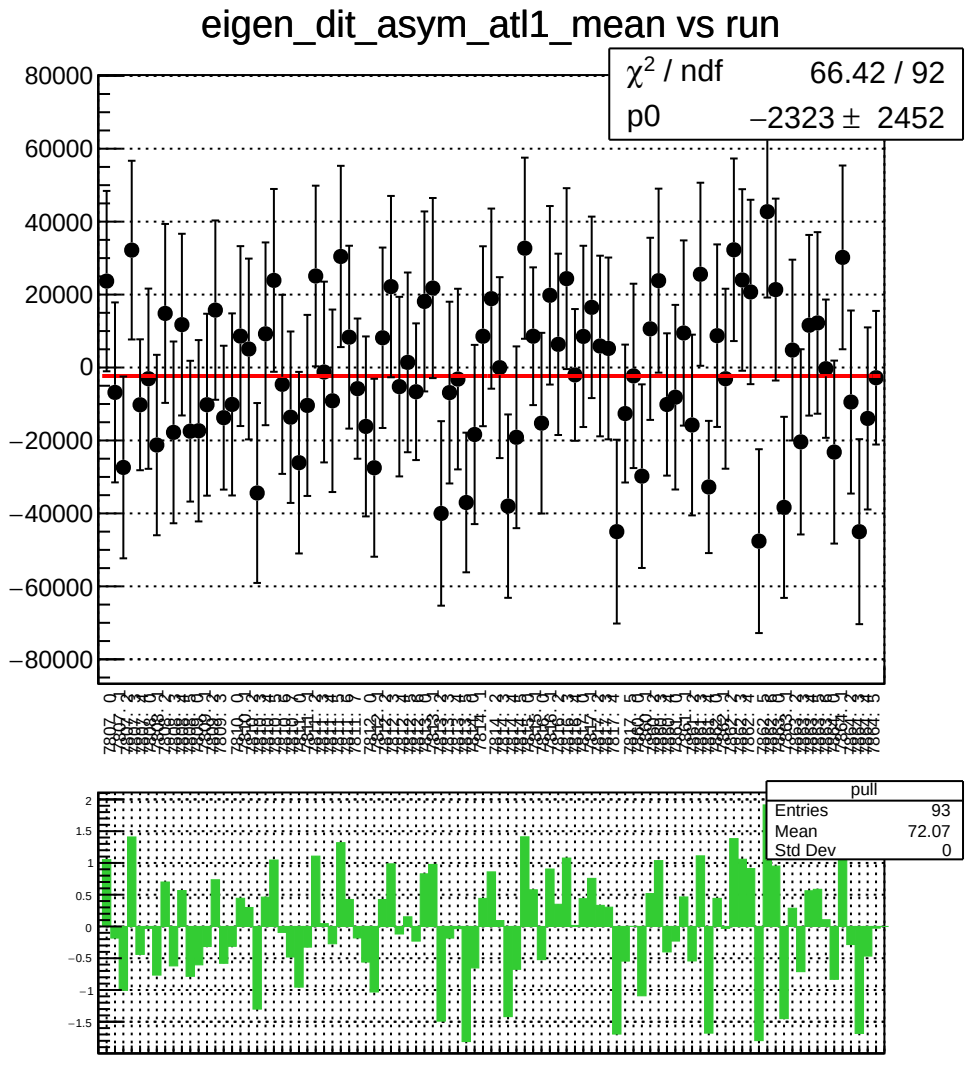

pull1D
Entries 93
Mean 0.01839
Std Dev 0.8449

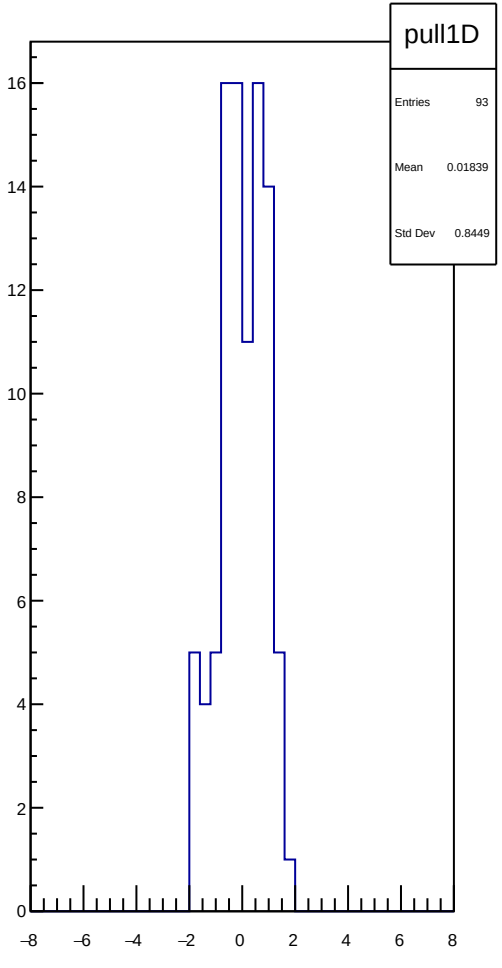

dit_asym_atl1_rms vs run
χ^2 / ndf 144.8 / 92
p0 2359 ± 1.734
2440
2420
2400
2380
2360
2340
2320
2300

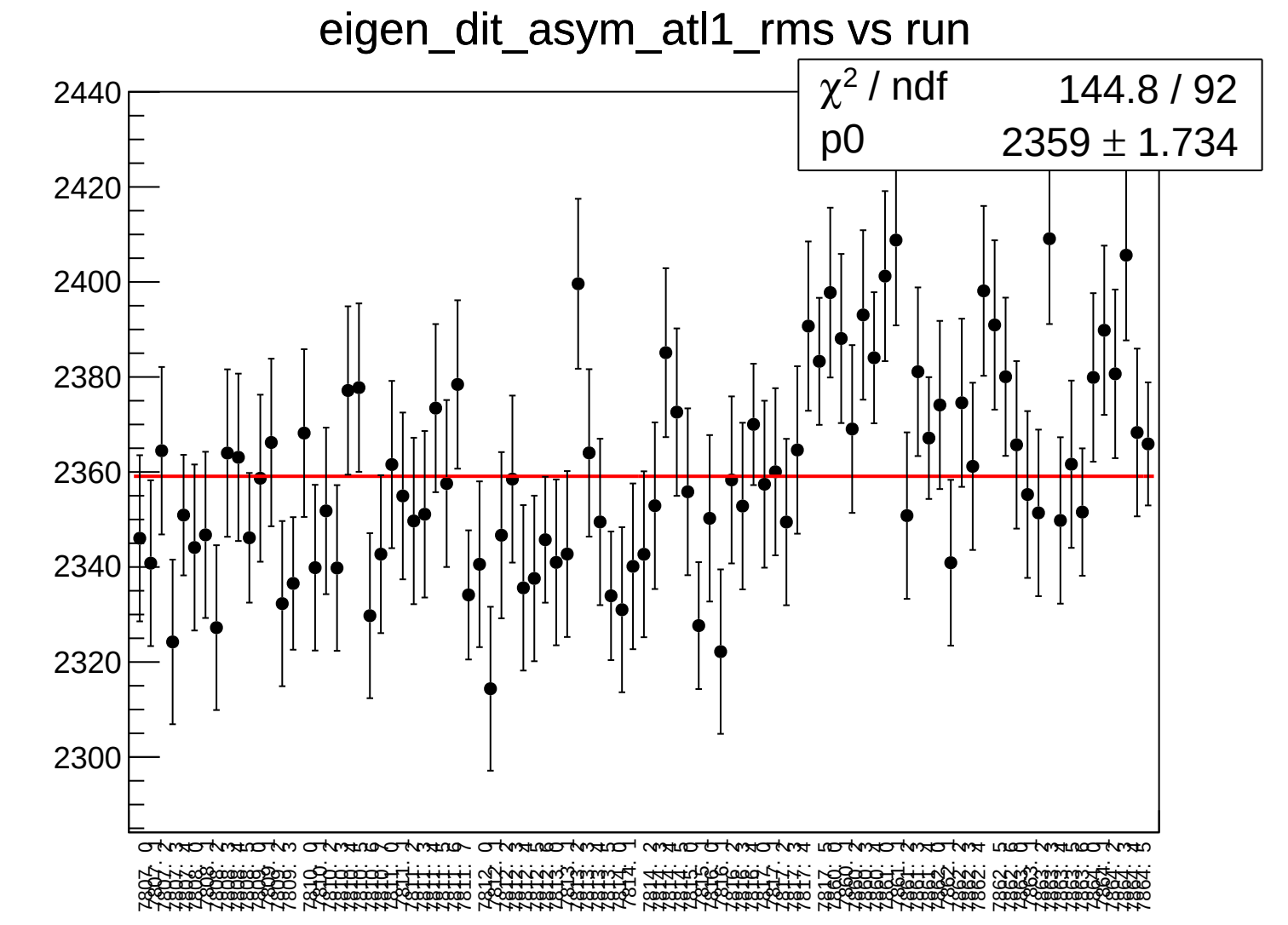

asym_atl1_dit_correction_mean vs run
χ² / ndf 84.42 / 92
p0 404.1 ± 928.1
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean −37.43
Std Dev 0
2
1
0
−1
−2

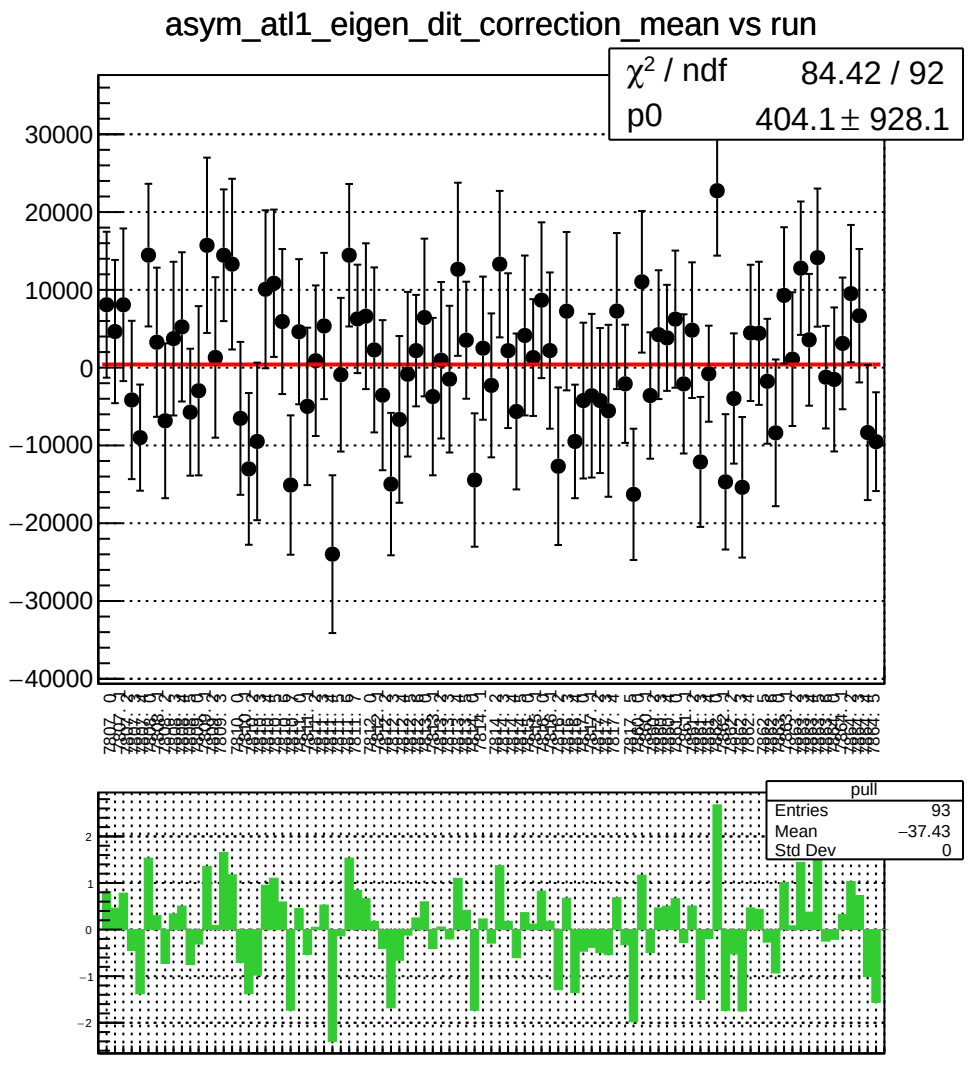

pull1D
Entries 93
Mean 0.01378
Std Dev 0.9527
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

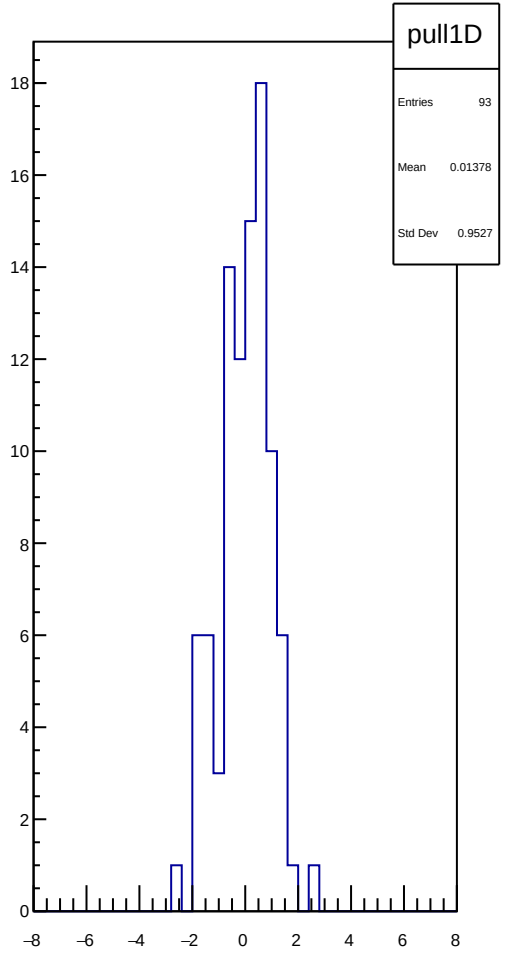

asym_atl1_dit_correction_rms vs run
χ² / ndf 1.108e+04 / 92
p0 890.3 ± 0.6563
1100
1050
1000
950
900
850
800
750

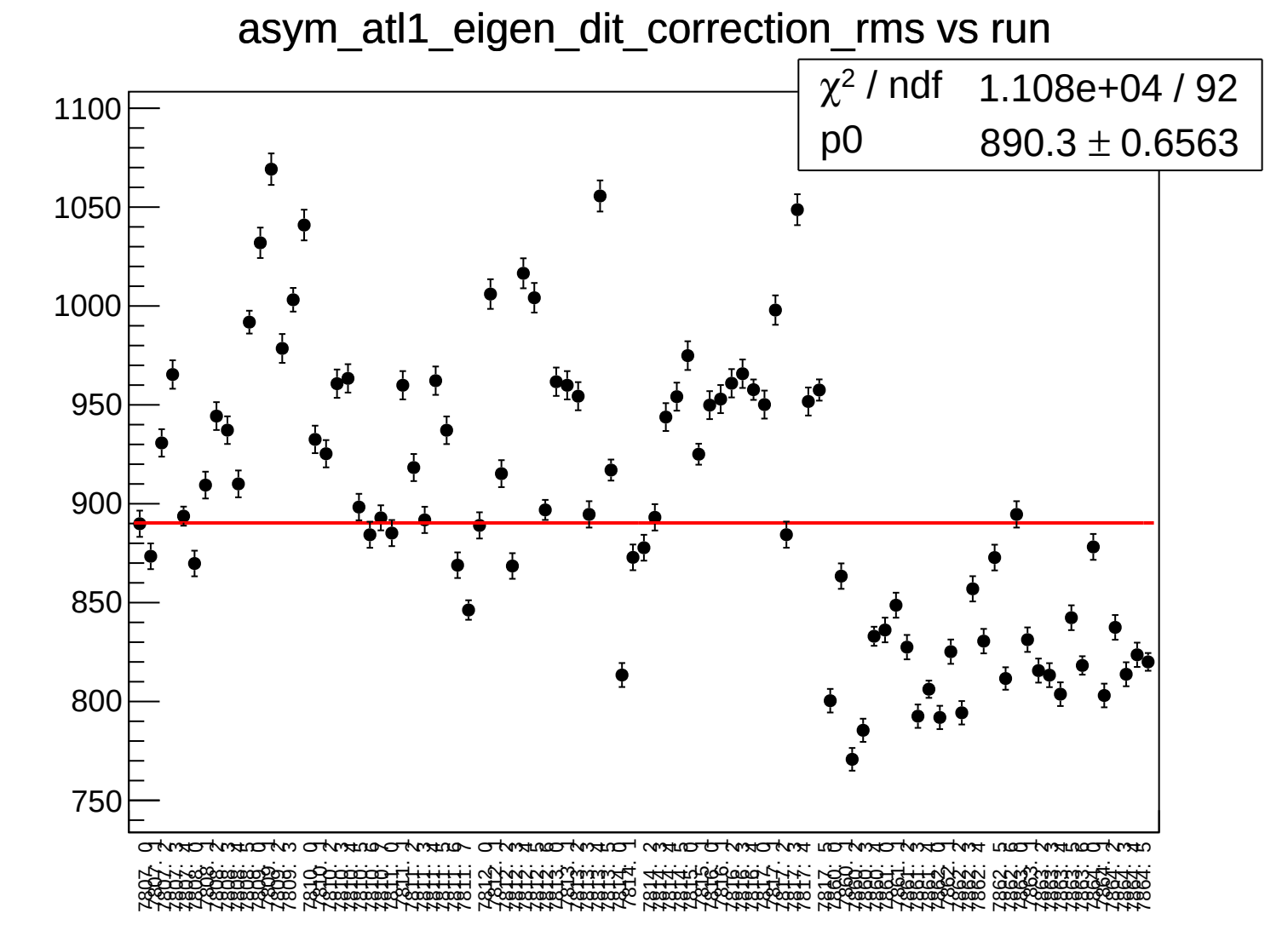

eigen_dit_asym_atl1_mean vs run
χ² / ndf 66.42 / 92
p0 −2323 ± 2452
pull
Entries 93
Mean 72.07
Std Dev 0

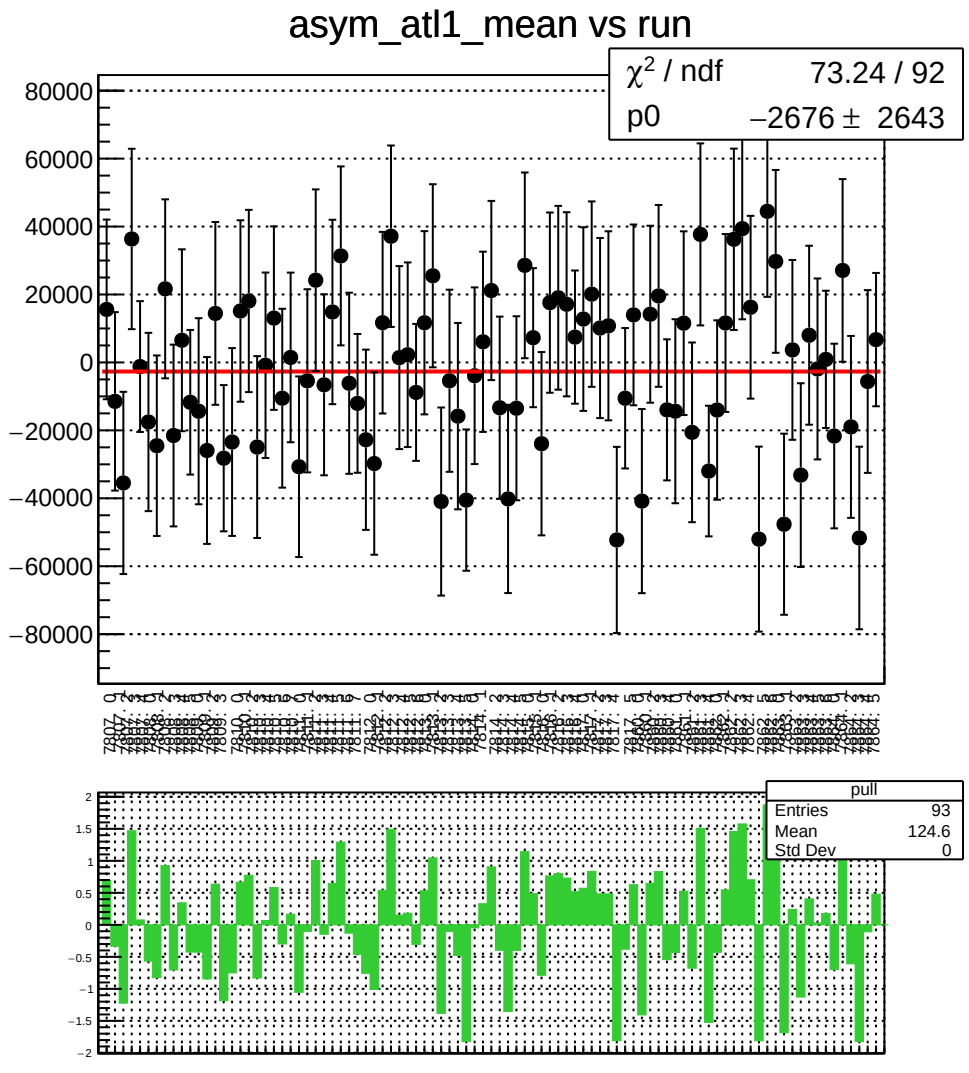

pull1D
Entries 93
Mean 0.01839
Std Dev 0.8449

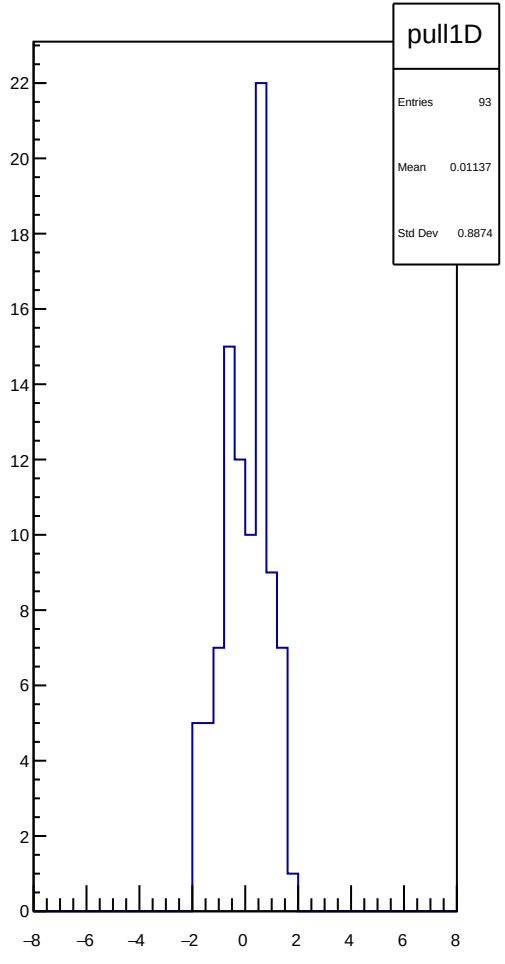

eigen_dit_asym_atl1_rms vs run
χ^2 / ndf 144.8 / 92
p0 2359 ± 1.734
2440
2420
2400
2380
2360
2340
2320
2300

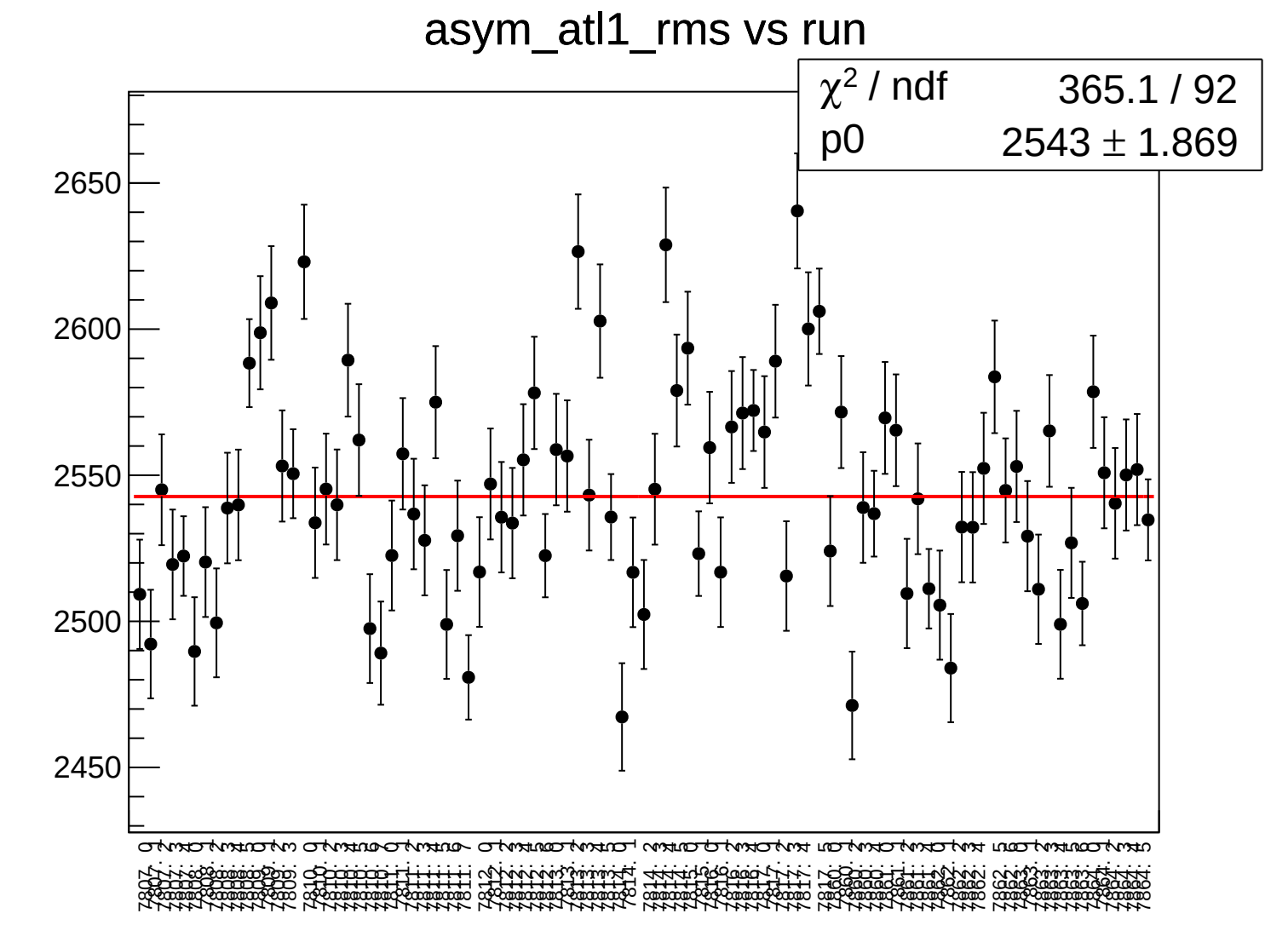

asym_atl1_eigen_dit_correction_mean vs run
χ² / ndf 84.42 / 92
p0 404.1 ± 928.1
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean −37.43
Std Dev 0
2
1
0
−1
−2

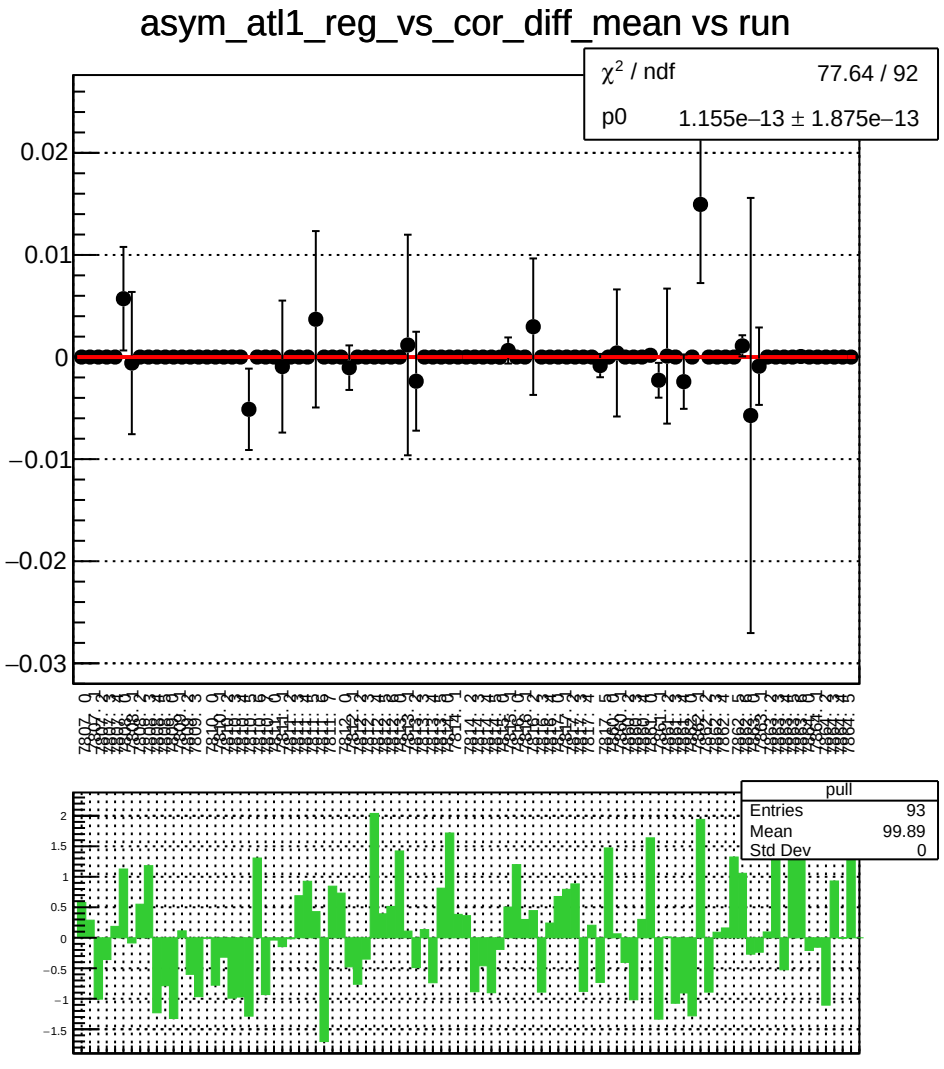

pull1D
Entries 93
Mean 0.01378
Std Dev 0.9527
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

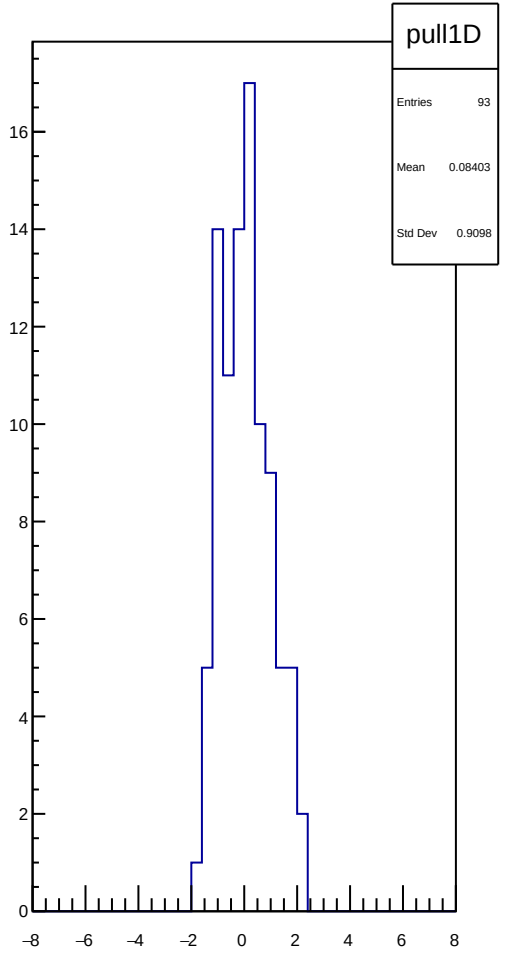

asym_atl1_eigen_dit_correction_rms vs run
χ² / ndf 1.108e+04 / 92
p0 890.3 ± 0.6563
1100
1050
1000
950
900
850
800
750

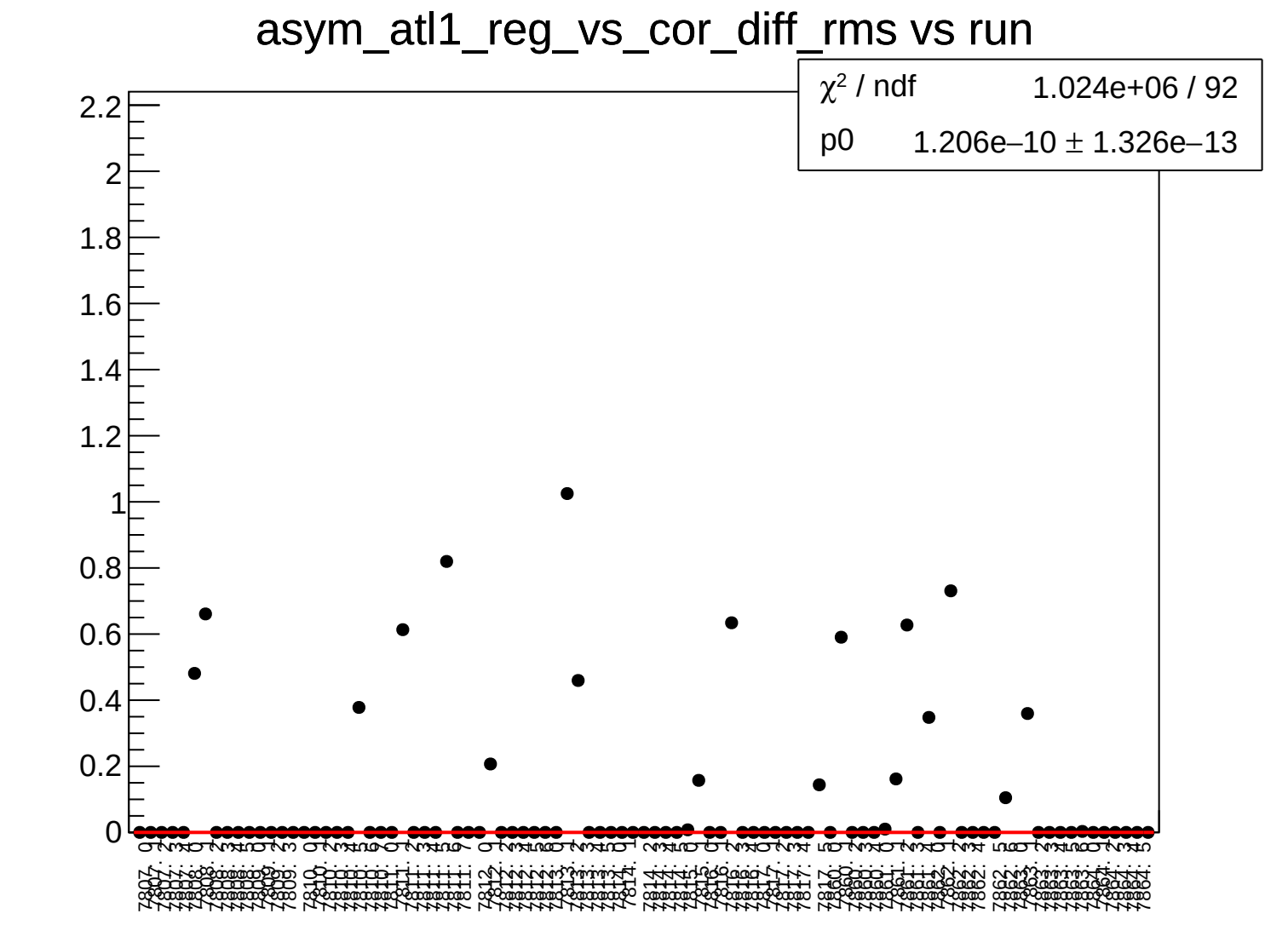

asym_atl1_mean vs run
χ² / ndf 73.24 / 92
p0 −2676 ± 2643
pull
Entries 93
Mean 124.6
Std Dev 0

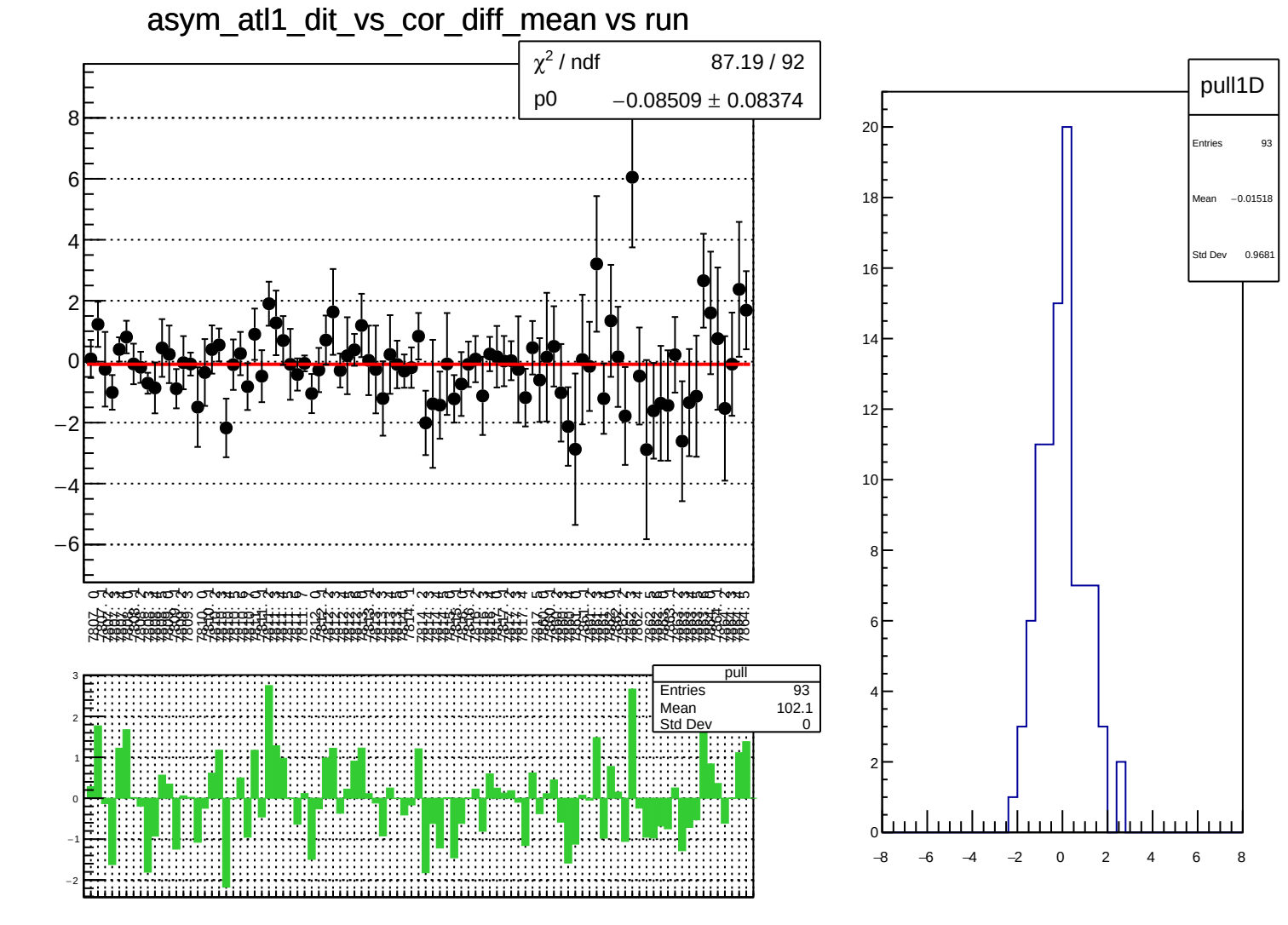

pull1D
Entries 93
Mean 0.01137
Std Dev 0.8874

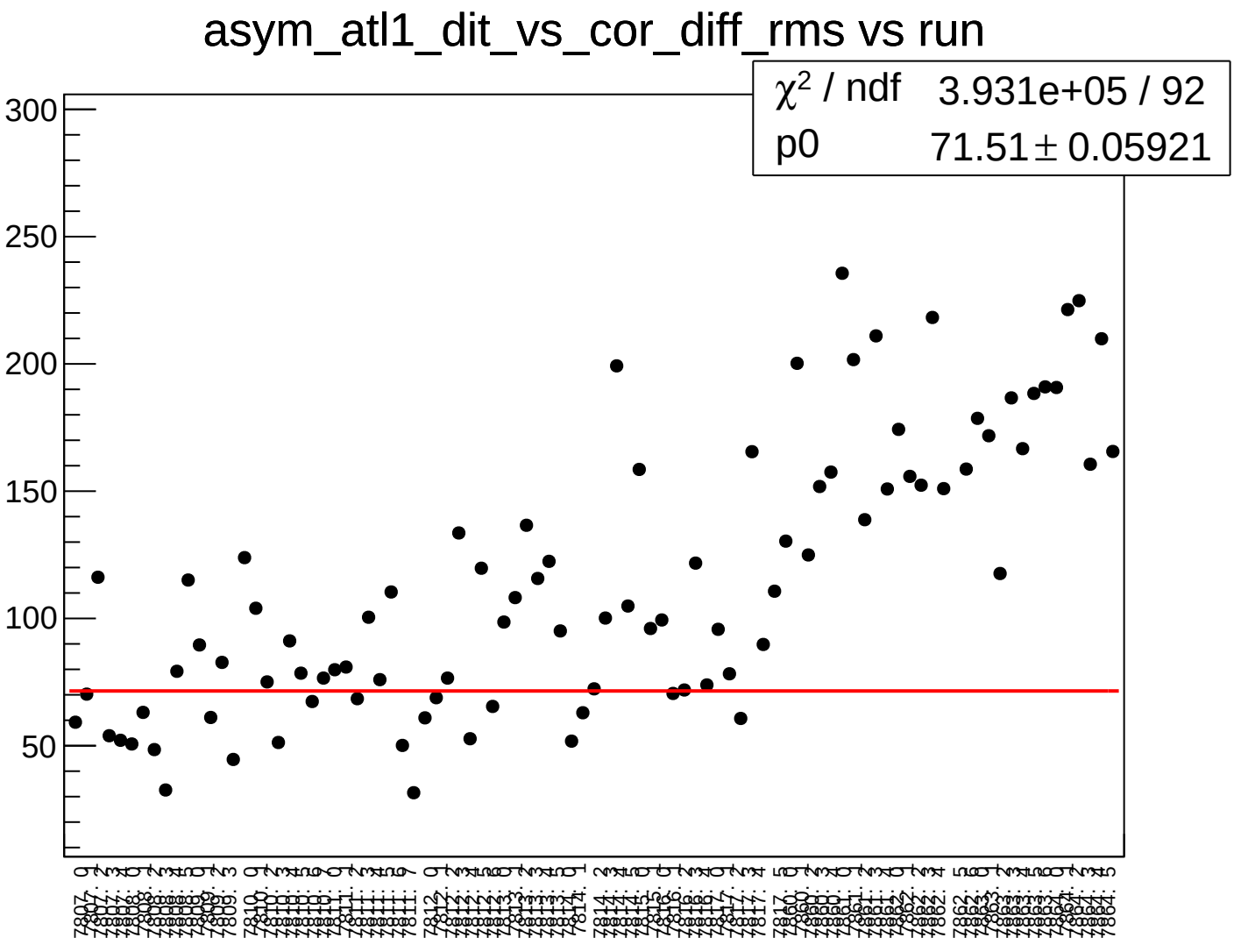

asym_atl1_rms vs run
χ² / ndf 365.1 / 92
p0 2543 ± 1.869
2650
2600
2550
2500
2450

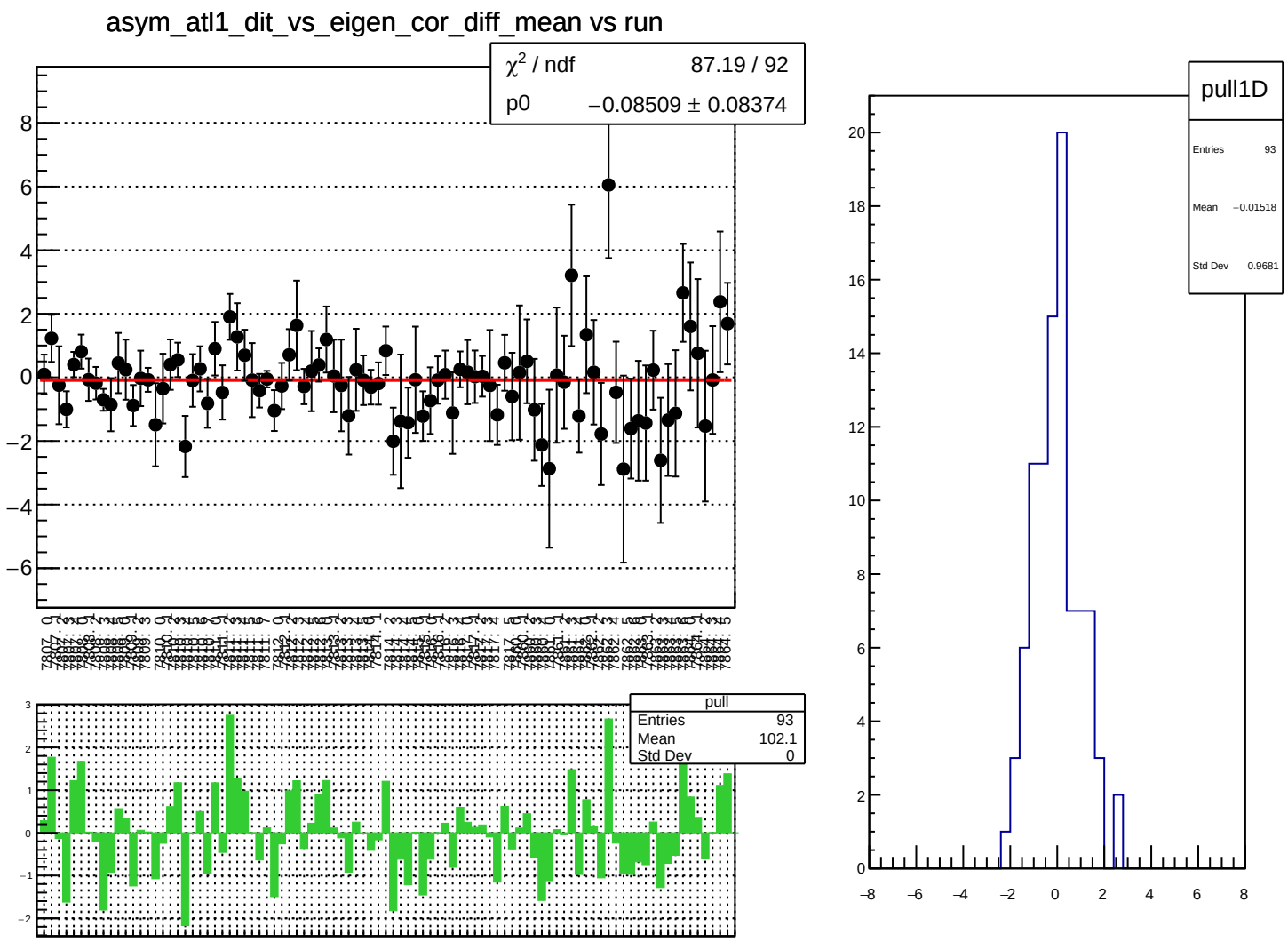

asym_atl1_reg_vs_cor_diff_mean vs run
χ² / ndf 77.64 / 92
p0 1.155e−13 ± 1.875e−13
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 93
Mean 99.89
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

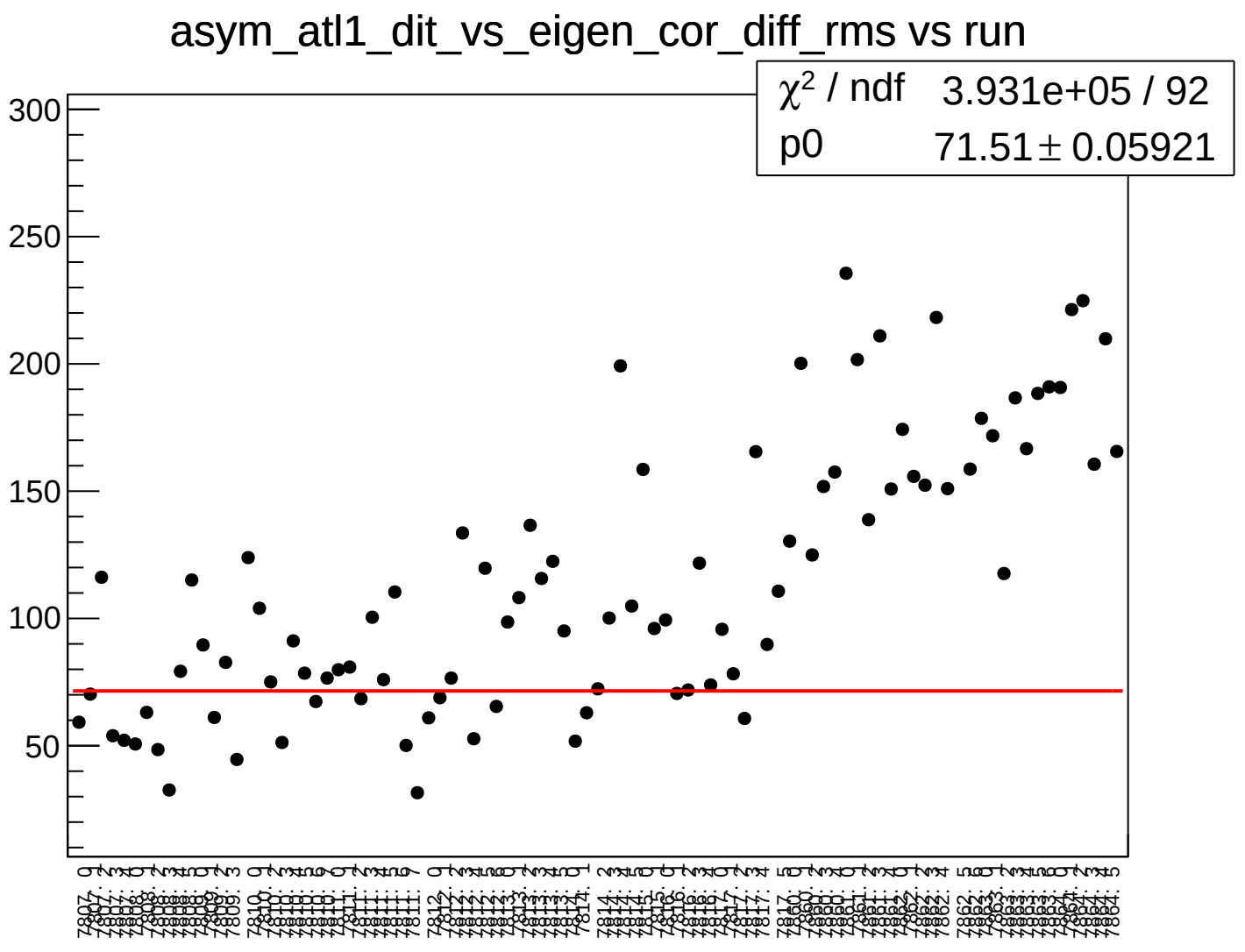

pull1D
Entries 93
Mean 0.08403
Std Dev 0.9098
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

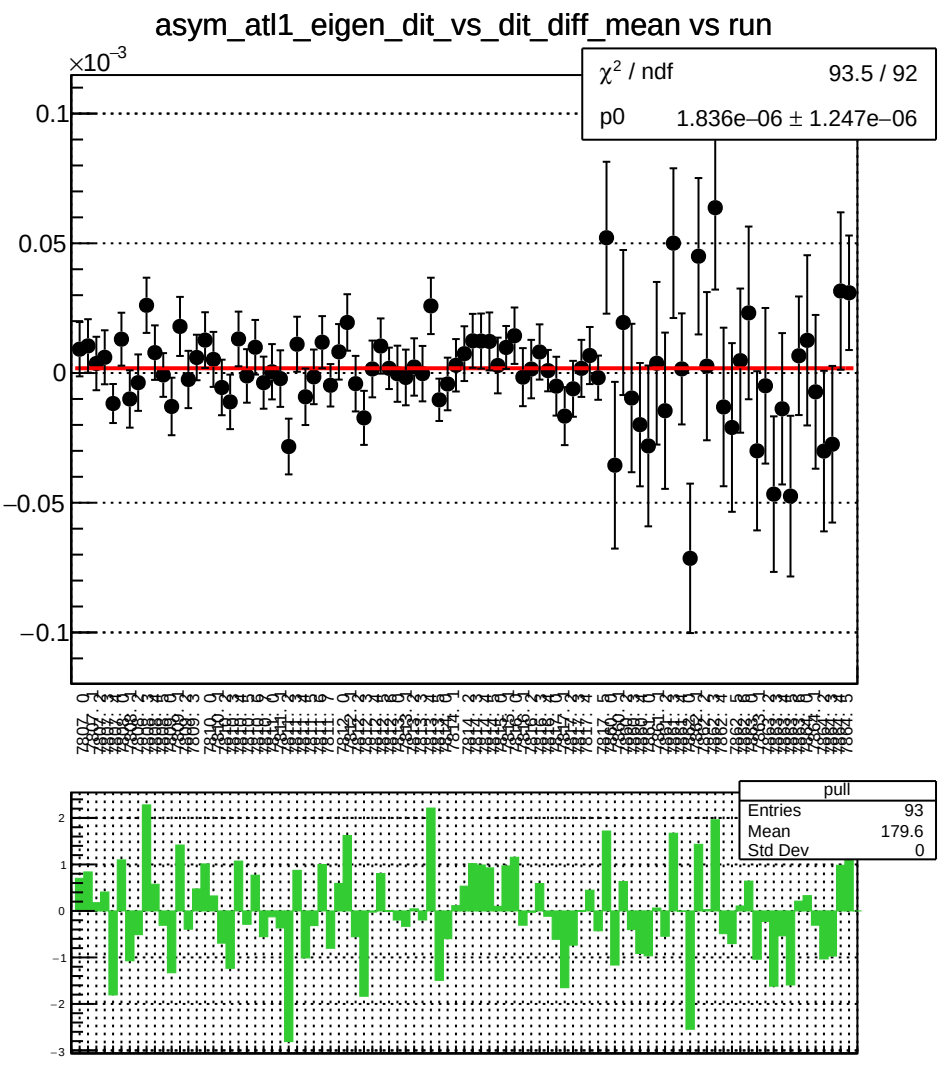

asym_atl1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.024e+06 / 92
p0 1.206e−10 ± 1.326e−13
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

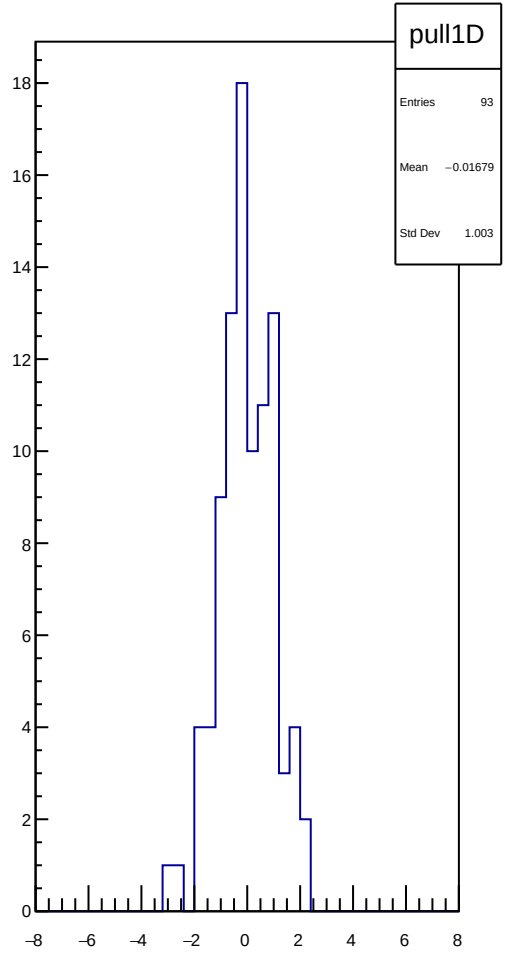

asym_atl1_dit_vs_cor_diff_mean vs run
χ² / ndf 87.19 / 92
p0 −0.08509 ± 0.08374
pull
Entries 93
Mean 102.1
Std Dev 0
pull1D
Entries 93
Mean −0.01518
Std Dev 0.9681

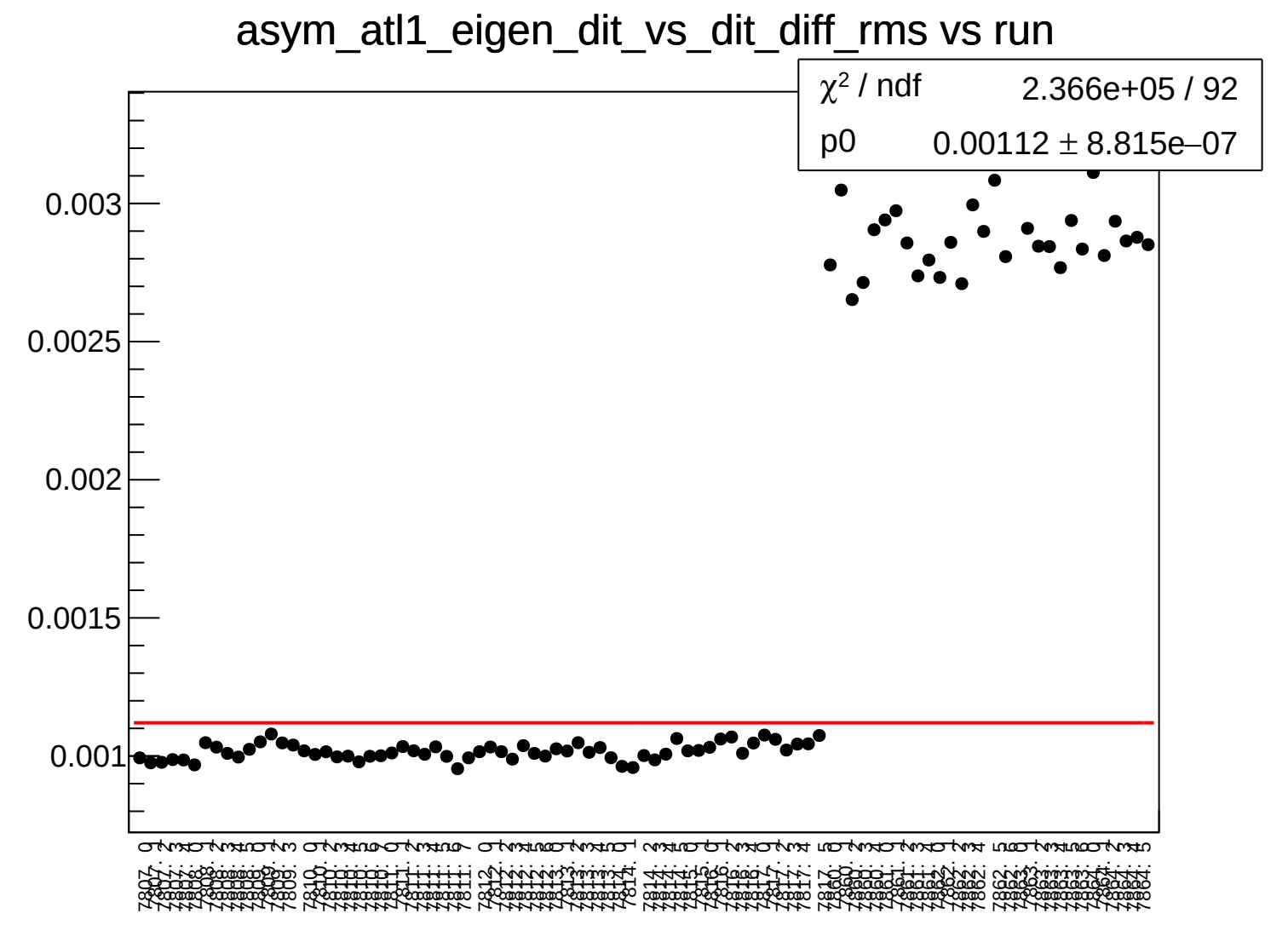

asym_atl1_dit_vs_cor_diff_rms vs run
χ² / ndf 3.931e+05 / 92
p0 71.51 ± 0.05921
300
250
200
150
100
50

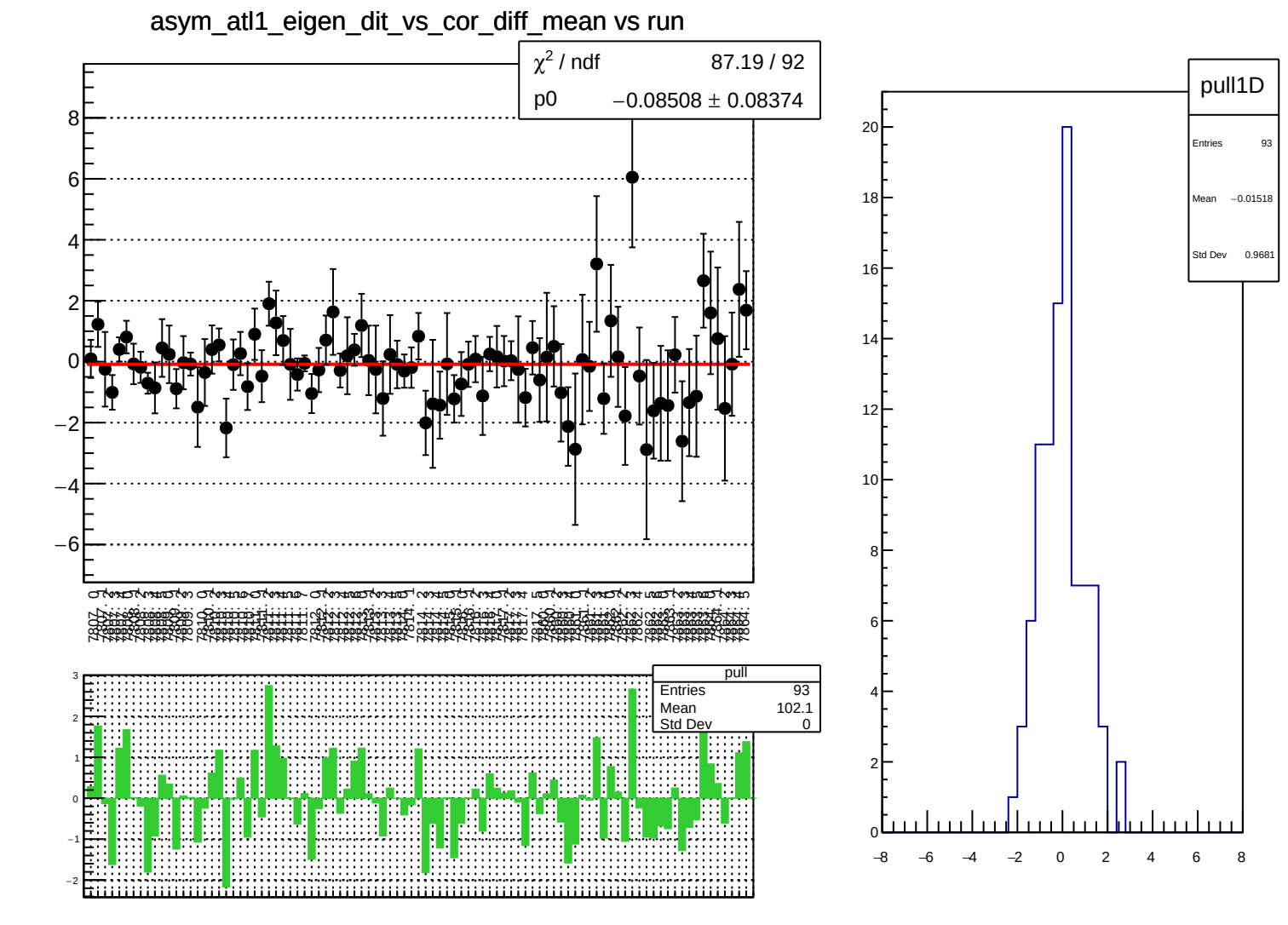

asym_atl1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.19 / 92
p0 −0.08509 ± 0.08374
pull
Entries 93
Mean 102.1
Std Dev 0
pull1D
Entries 93
Mean −0.01518
Std Dev 0.9681

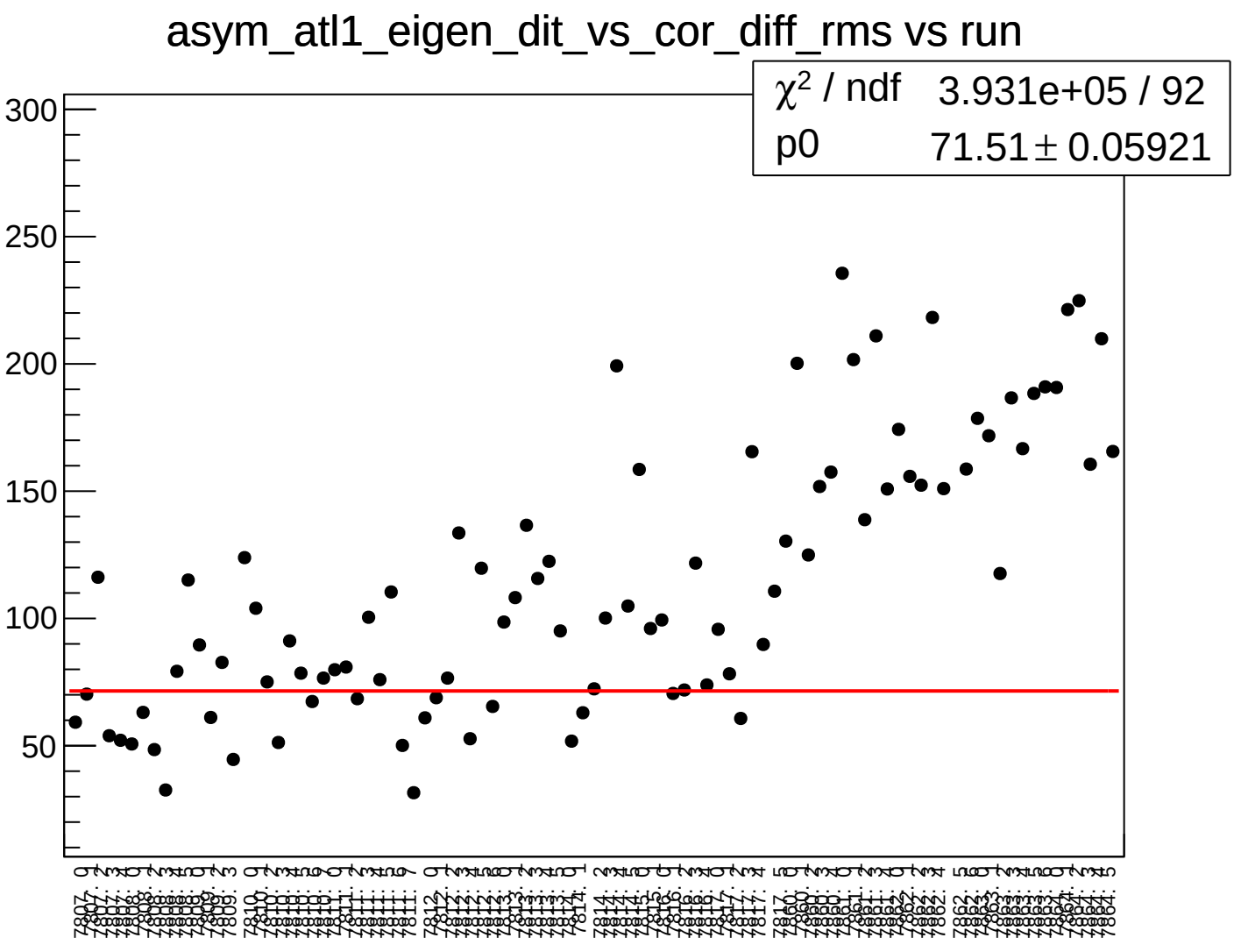

asym_atl1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.931e+05 / 92
p0 71.51 ± 0.05921
300
250
200
150
100
50

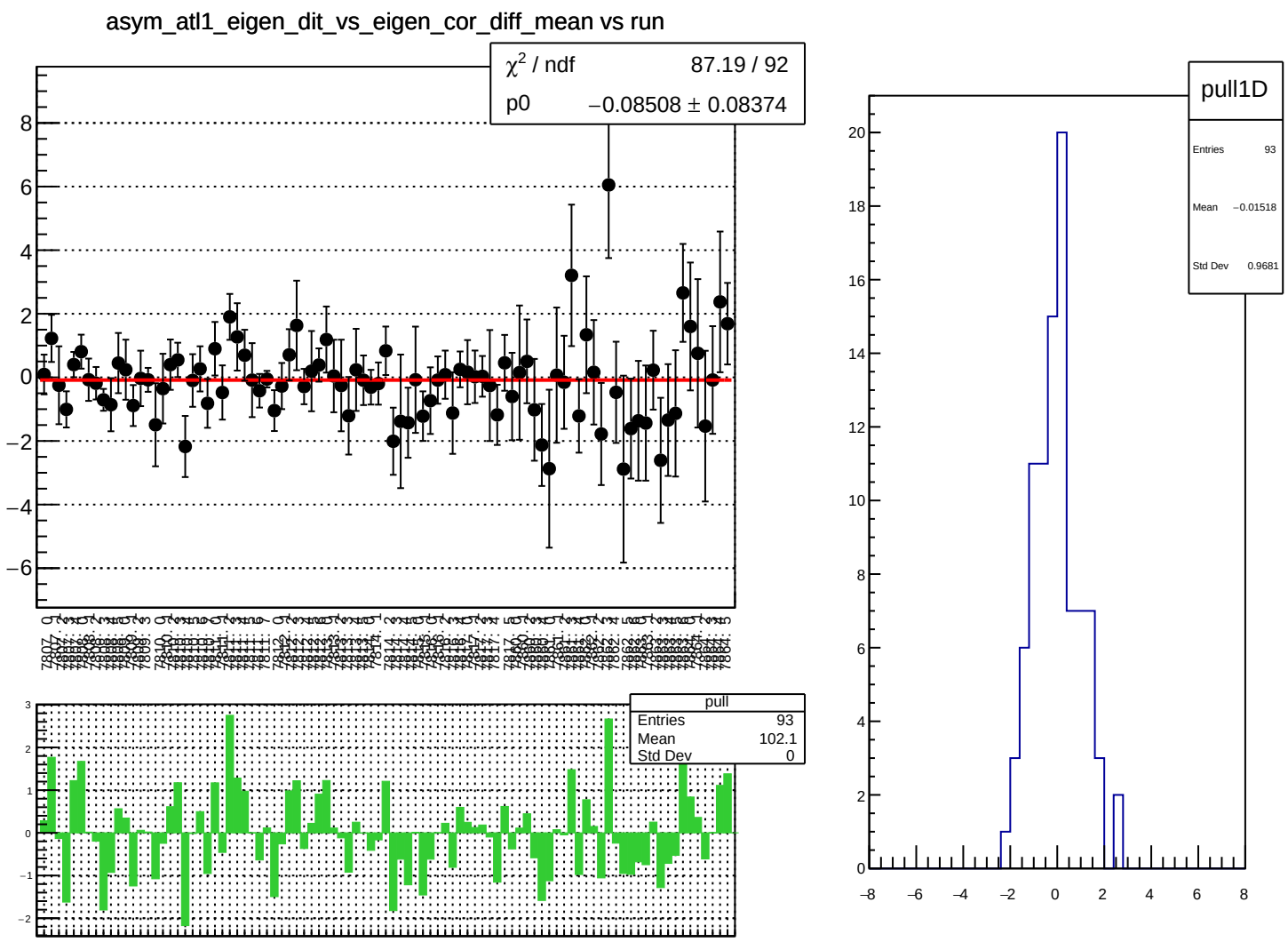

asym_atl1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93.5 / 92
p0 1.836e−06 ± 1.247e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 93
Mean 179.6
Std Dev 0
2
1
0
−1
−2
−3

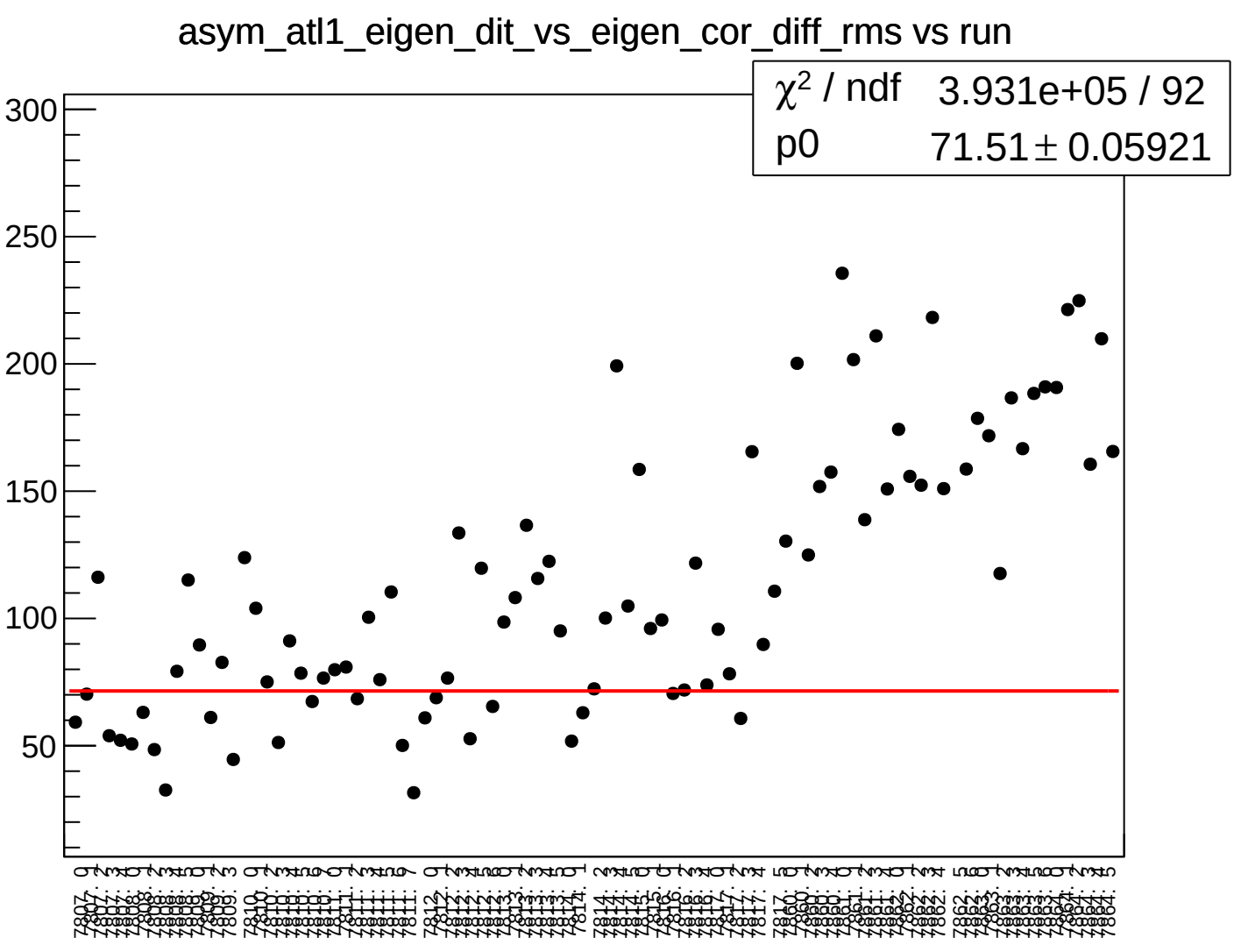

pull1D
Entries 93
Mean −0.01679
Std Dev 1.003
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

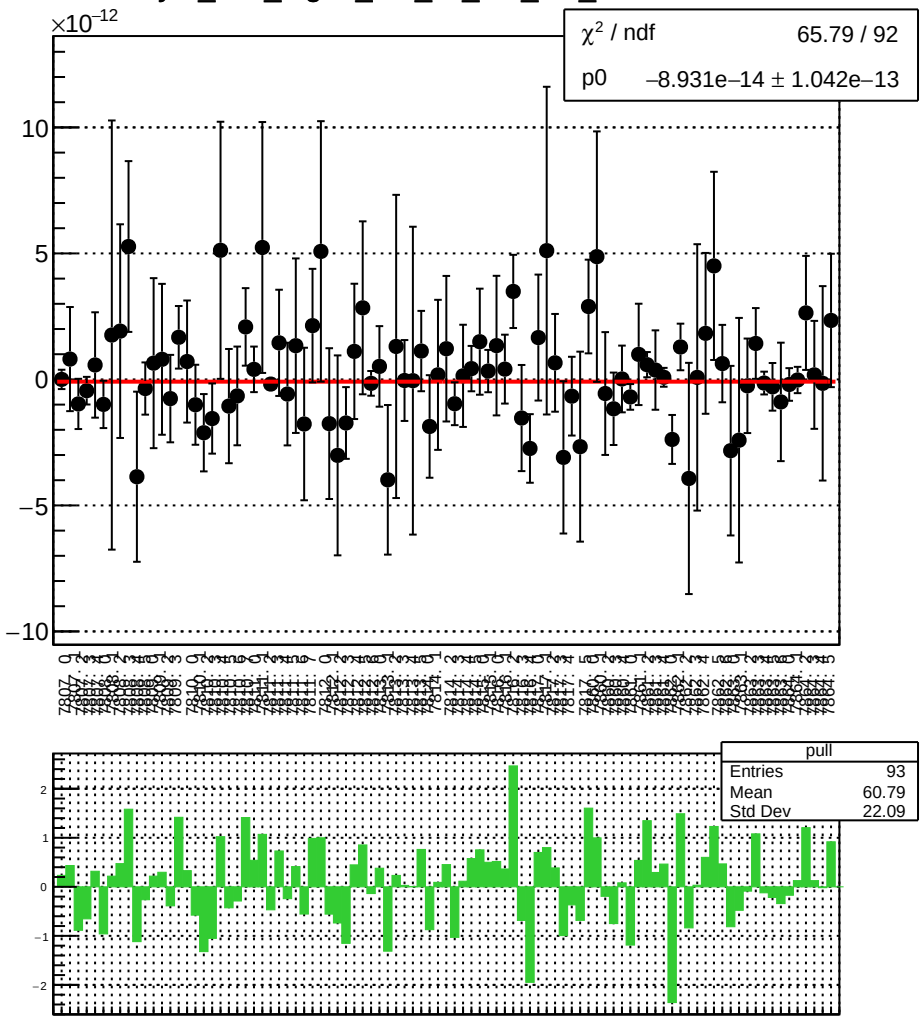

asym_atl1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.366e+05 / 92
p0 0.00112 ± 8.815e–07
0.003
0.0025
0.002
0.0015
0.001

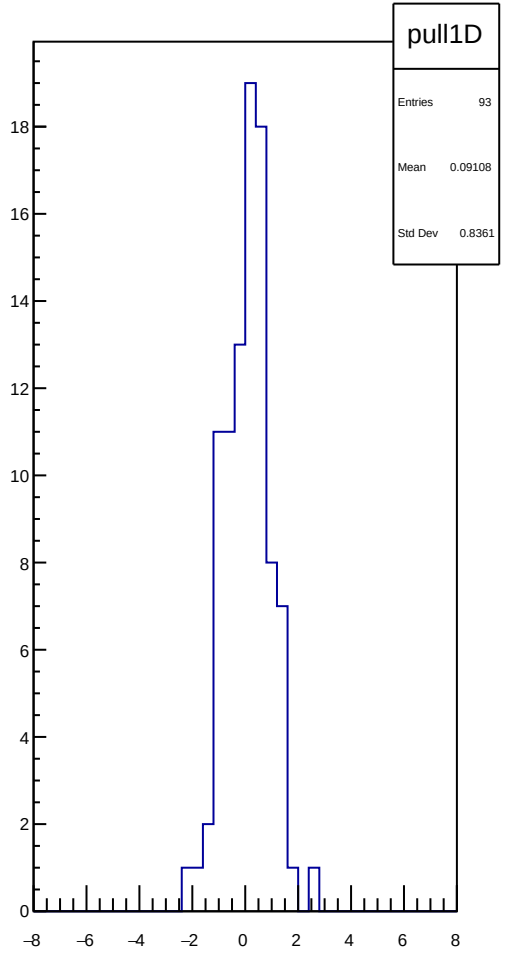

asym_atl1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.19 / 92
p0 −0.08508 ± 0.08374
pull
Entries 93
Mean 102.1
Std Dev 0
pull1D
Entries 93
Mean −0.01518
Std Dev 0.9681

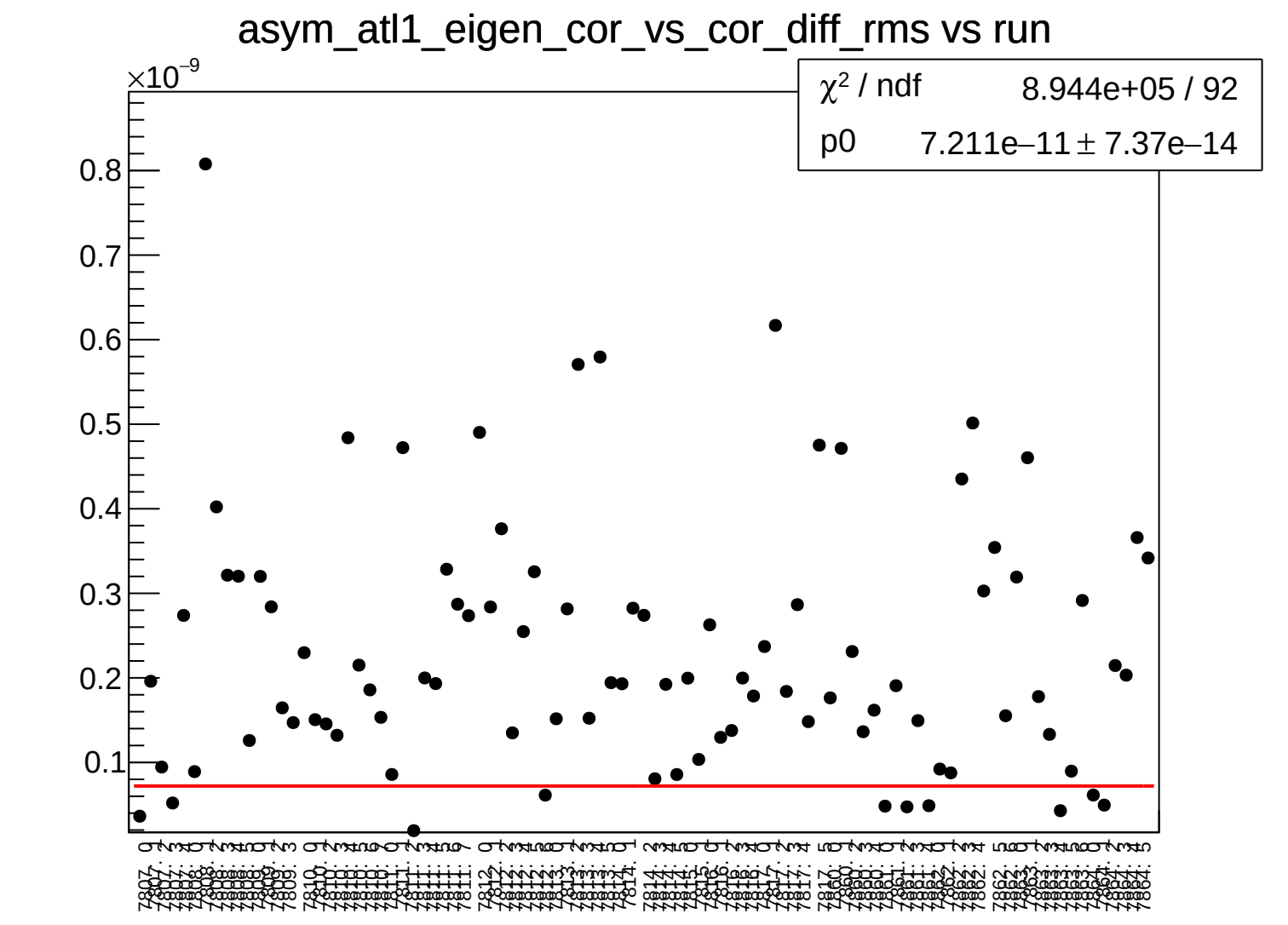

asym_atl1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.931e+05 / 92
p0 71.51 ± 0.05921
300
250
200
150
100
50

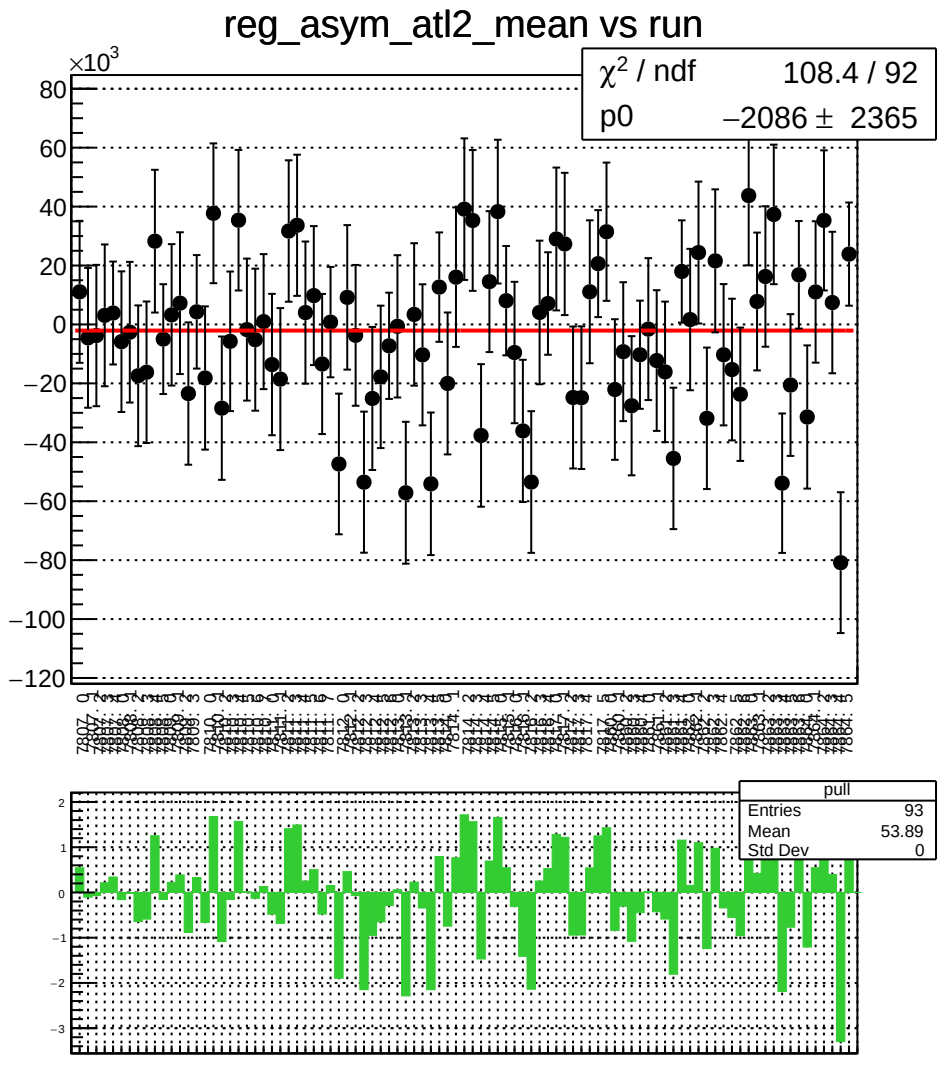

asym_atl1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.19 / 92
p0 −0.08508 ± 0.08374
pull
Entries 93
Mean 102.1
Std Dev 0
pull1D
Entries 93
Mean −0.01518
Std Dev 0.9681

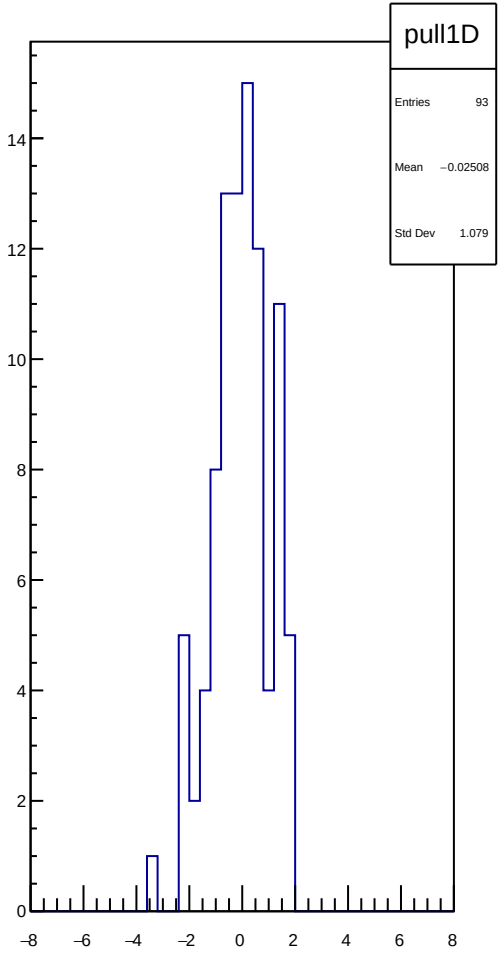

asym_atl1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.931e+05 / 92
p0 71.51 ± 0.05921
300
250
200
150
100
50

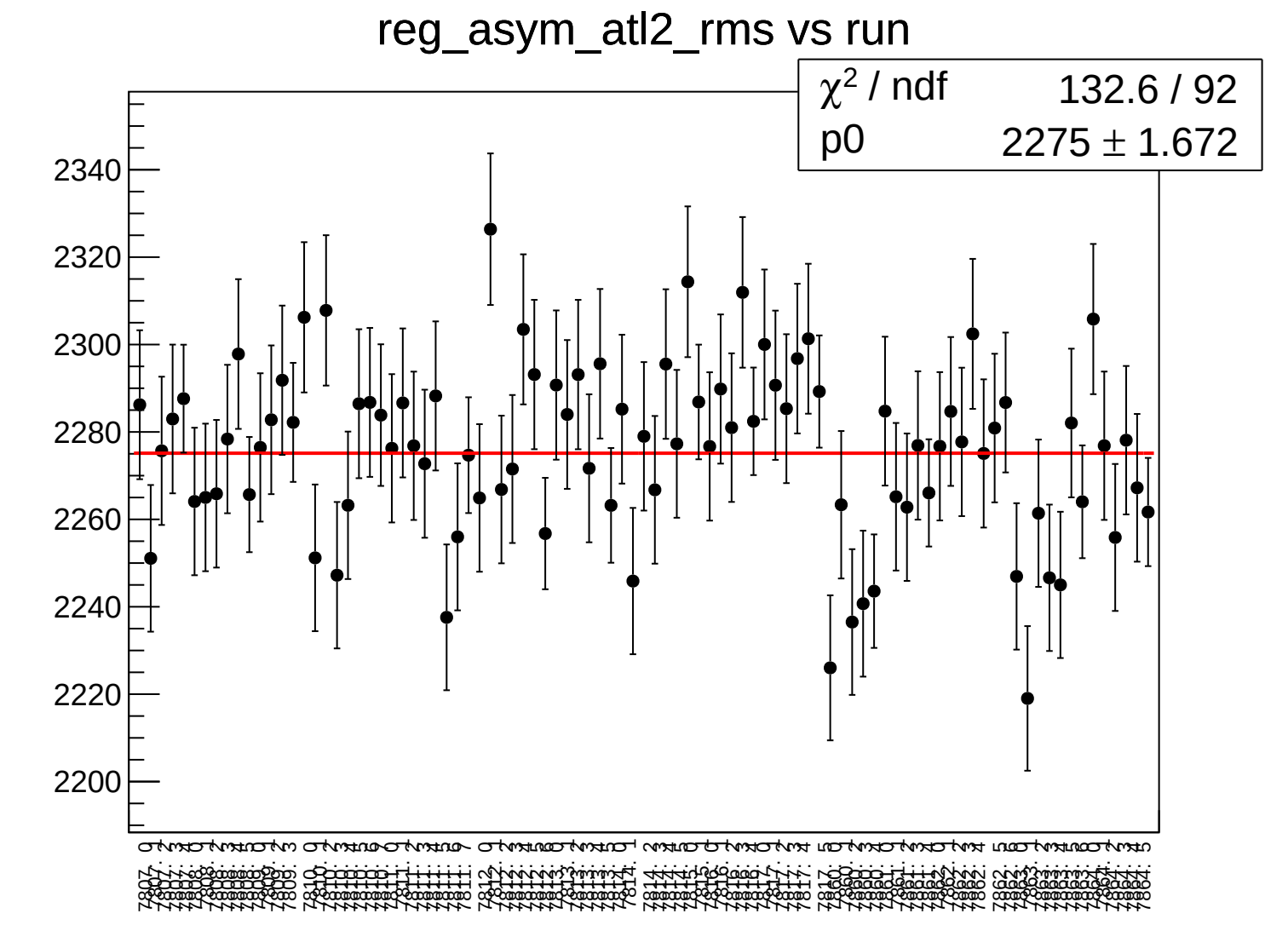

asym_atl1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 65.79 / 92
p0 −8.931e−14 ± 1.042e−13
10
5
0
−5
−10
pull
Entries 93
Mean 60.79
Std Dev 22.09
2
1
0
−1
−2

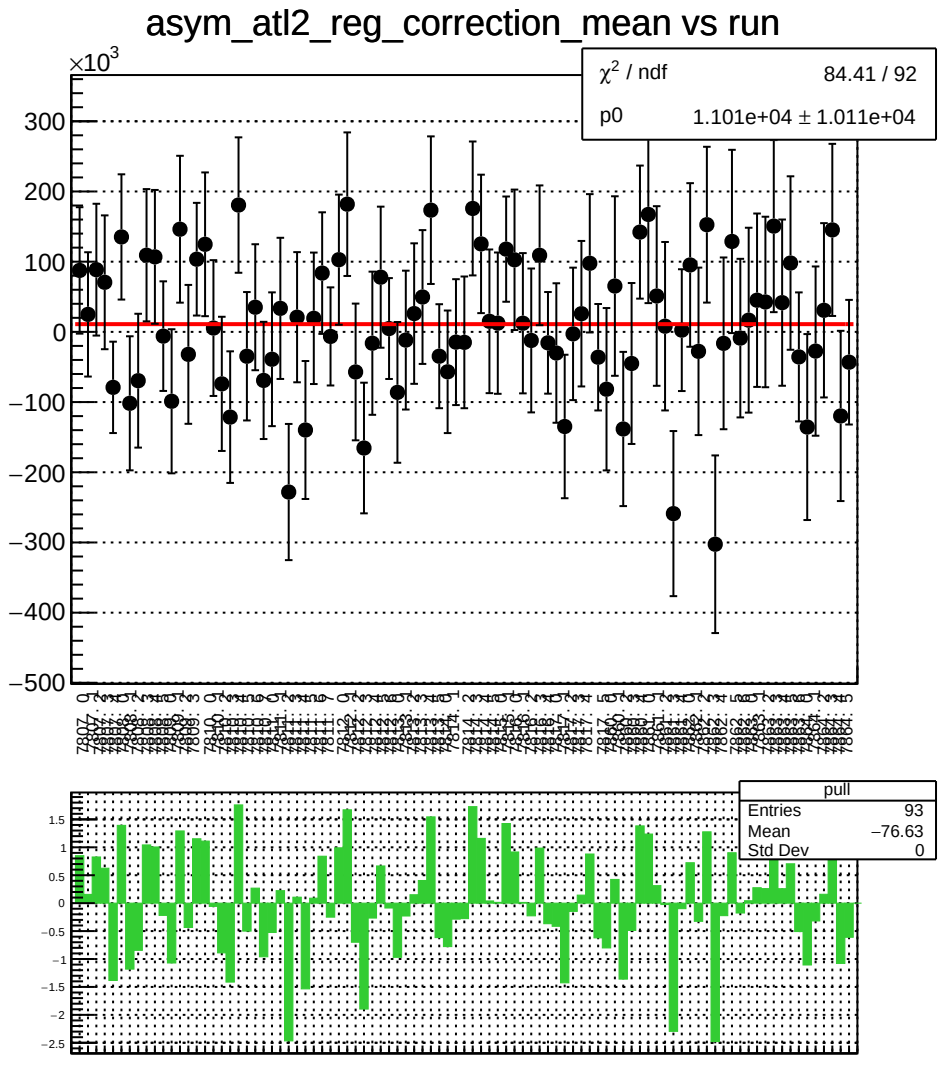

pull1D
Entries 93
Mean 0.09108
Std Dev 0.8361
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

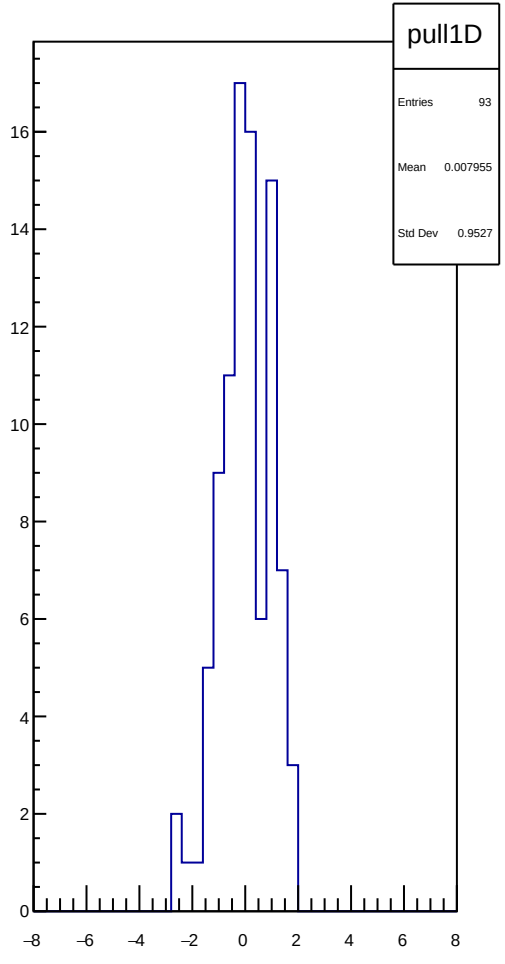

asym_atl1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.944e+05 / 92
p0 7.211e−11 ± 7.37e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

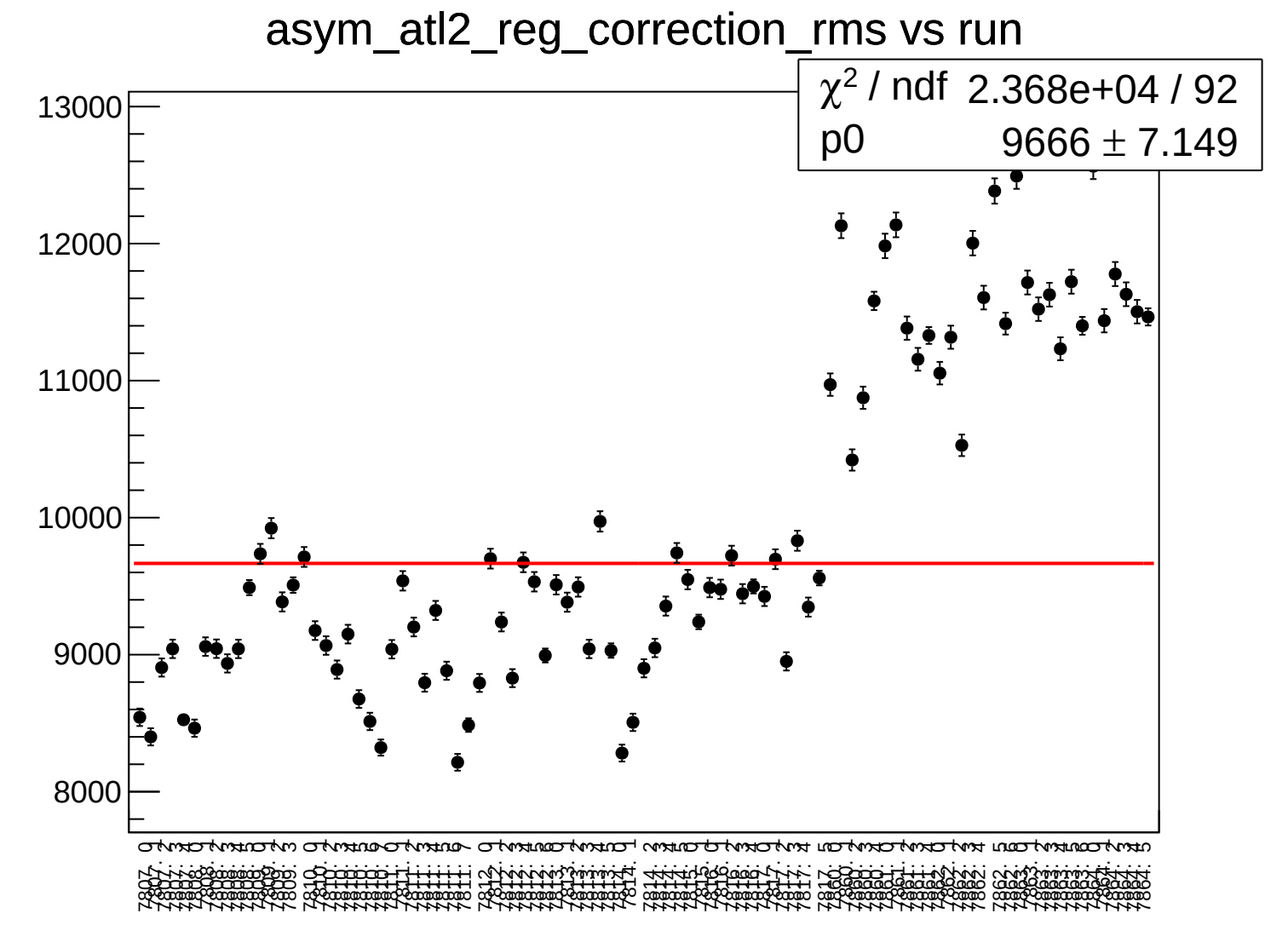

reg_asym_atl2_mean vs run
χ² / ndf 108.4 / 92
p0 −2086 ± 2365
pull
Entries 93
Mean 53.89
Std Dev 0

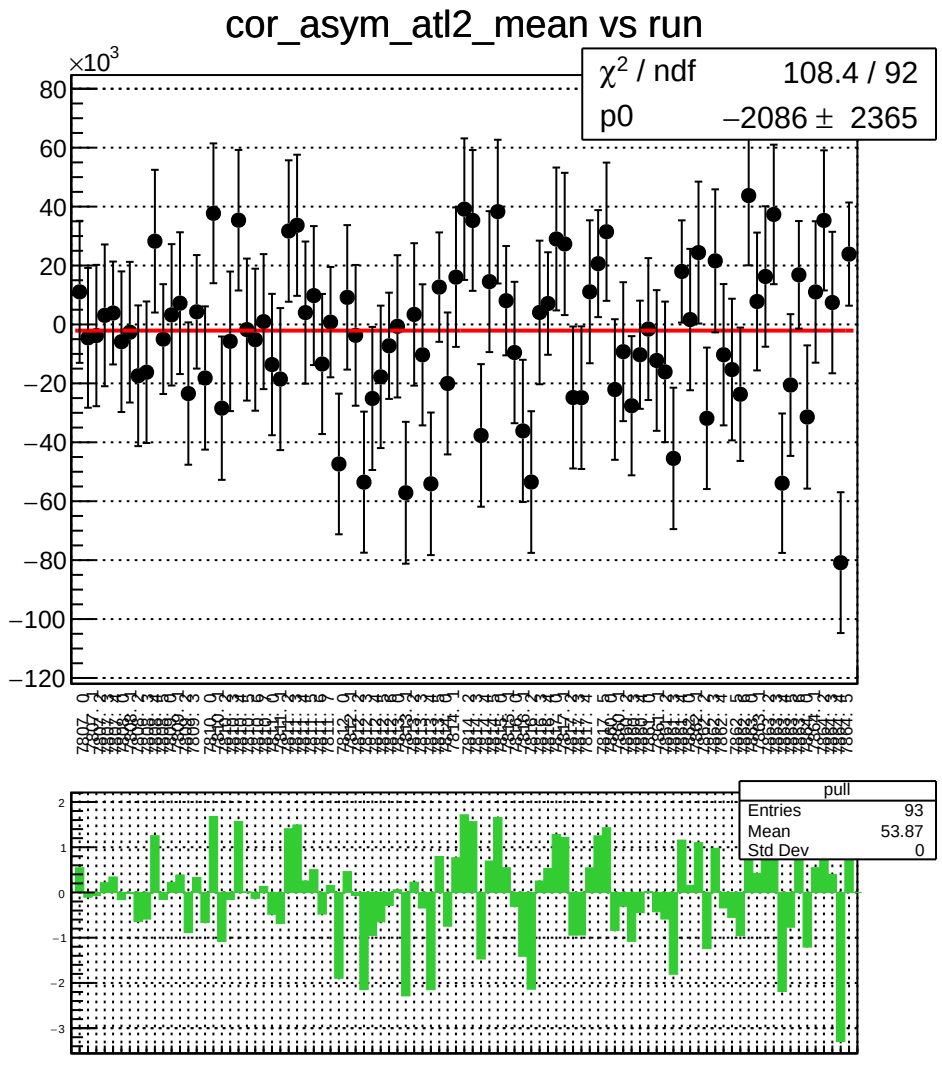

pull1D
Entries 93
Mean −0.02508
Std Dev 1.079

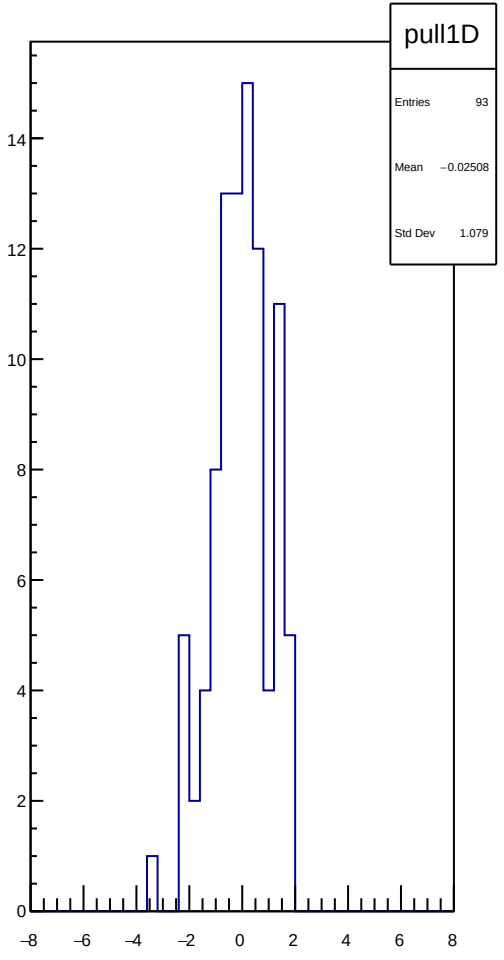

reg_asym_atl2_rms vs run
χ^2 / ndf 132.6 / 92
p0 2275 ± 1.672
2340
2320
2300
2280
2260
2240
2220
2200

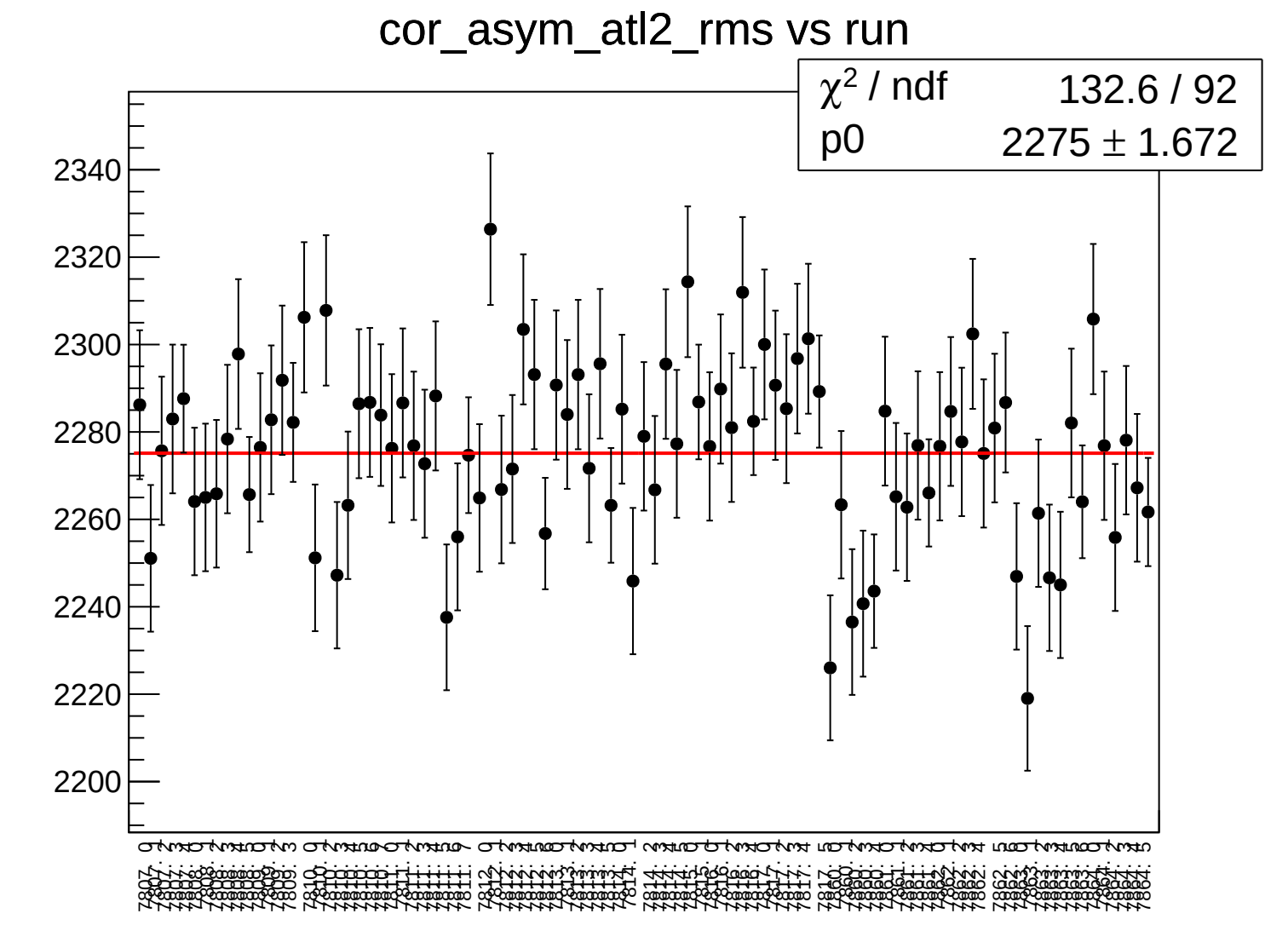

asym_atl2_reg_correction_mean vs run
×10^3
χ² / ndf 84.41 / 92
p0 1.101e+04 ± 1.011e+04
pull
Entries 93
Mean −76.63
Std Dev 0

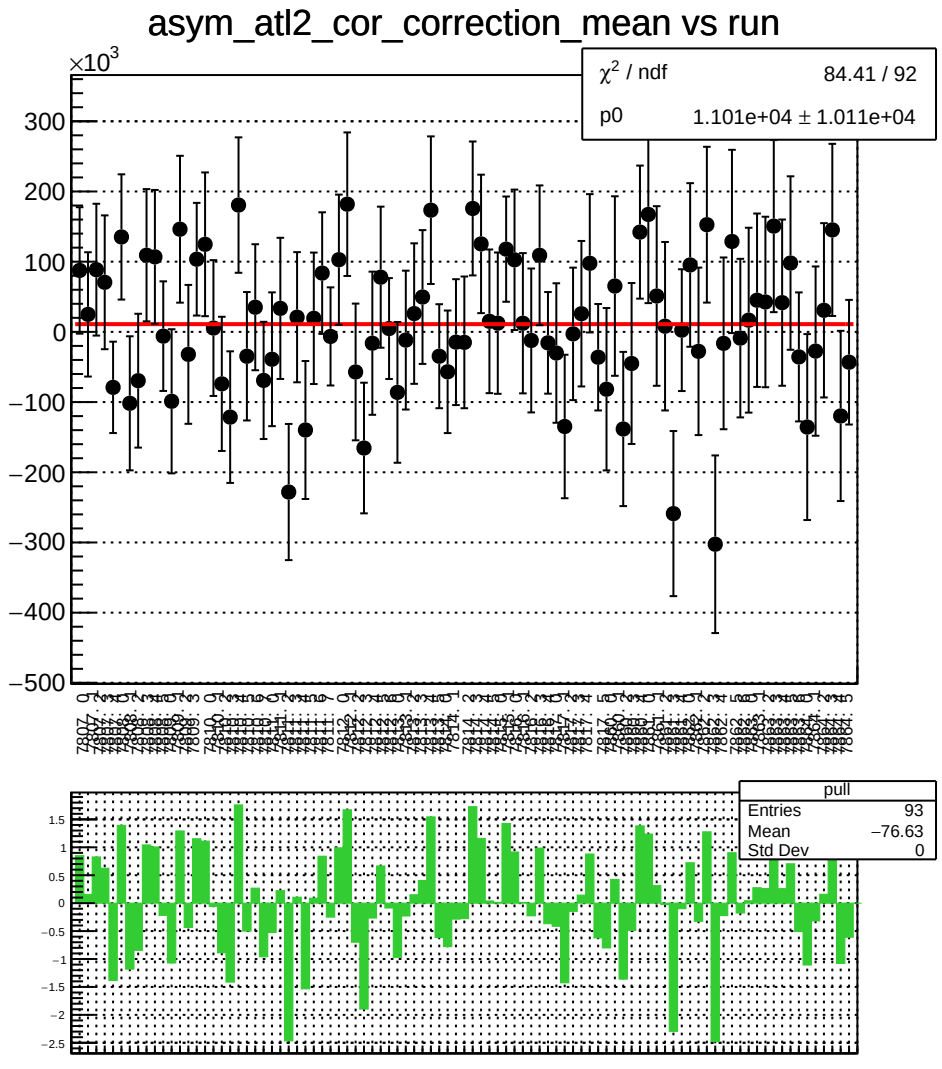

pull1D
Entries 93
Mean 0.007955
Std Dev 0.9527

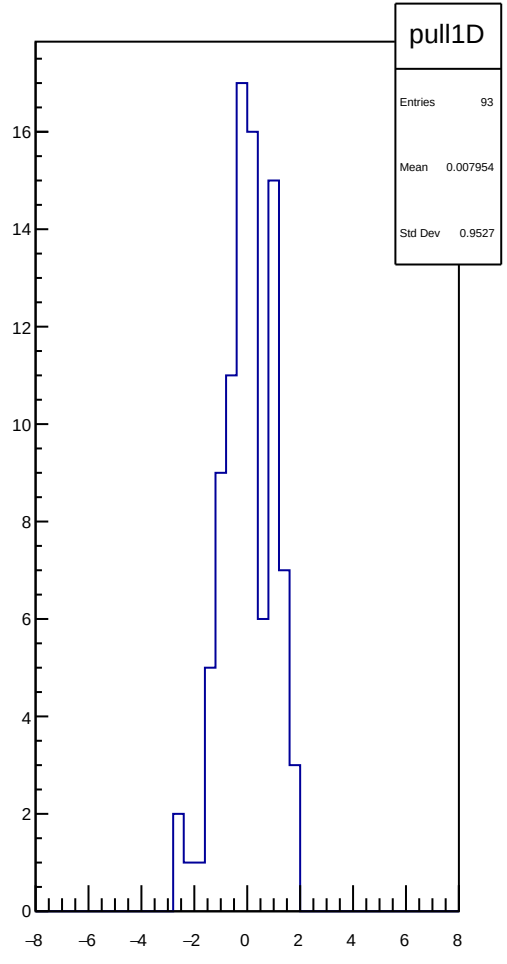

asym_atl2_reg_correction_rms vs run
χ² / ndf 2.368e+04 / 92
p0 9666 ± 7.149
13000
12000
11000
10000
9000
8000

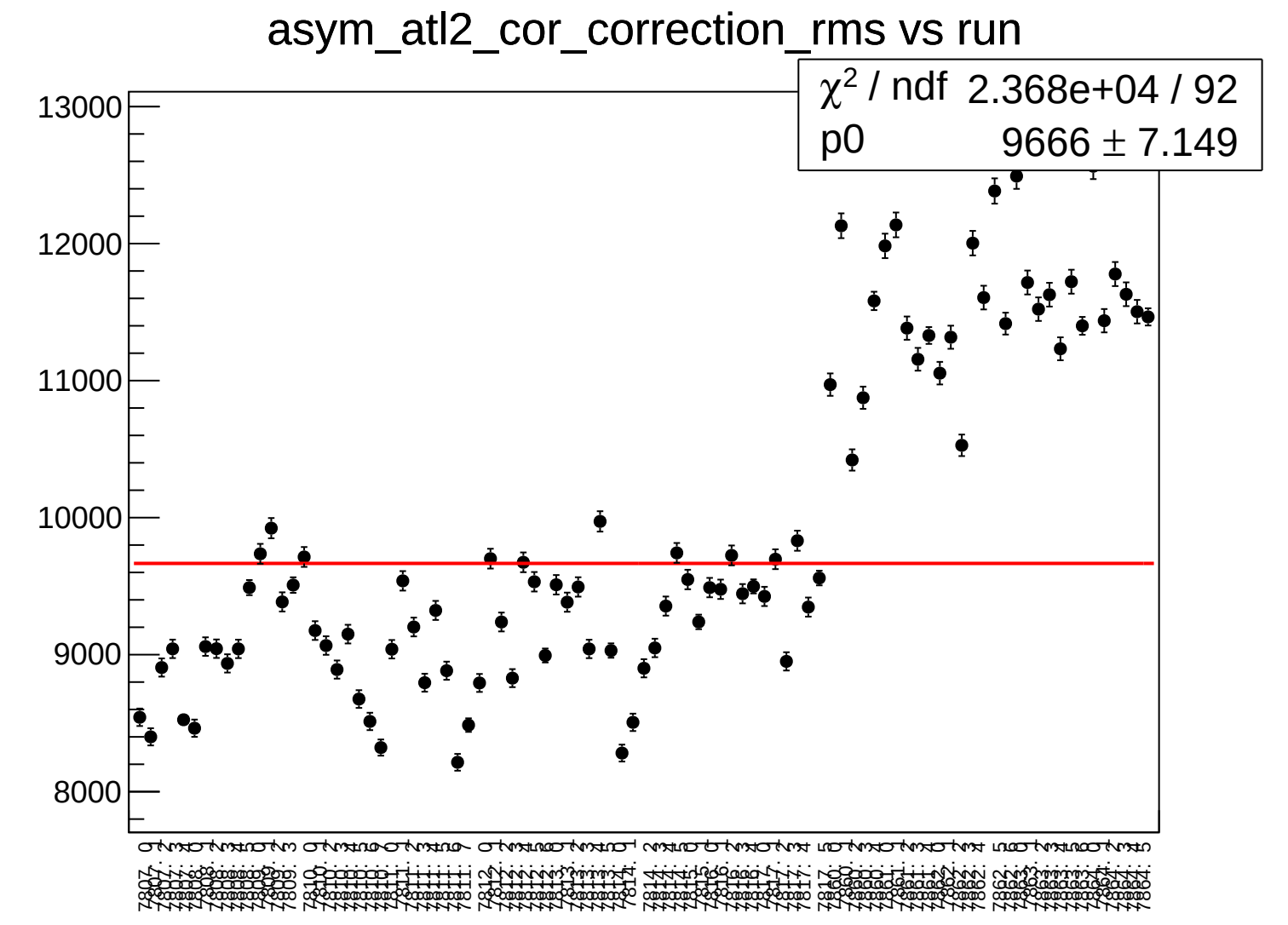

cor_asym_atl2_mean vs run
χ² / ndf 108.4 / 92
p0 −2086 ± 2365
pull
Entries 93
Mean 53.87
Std Dev 0

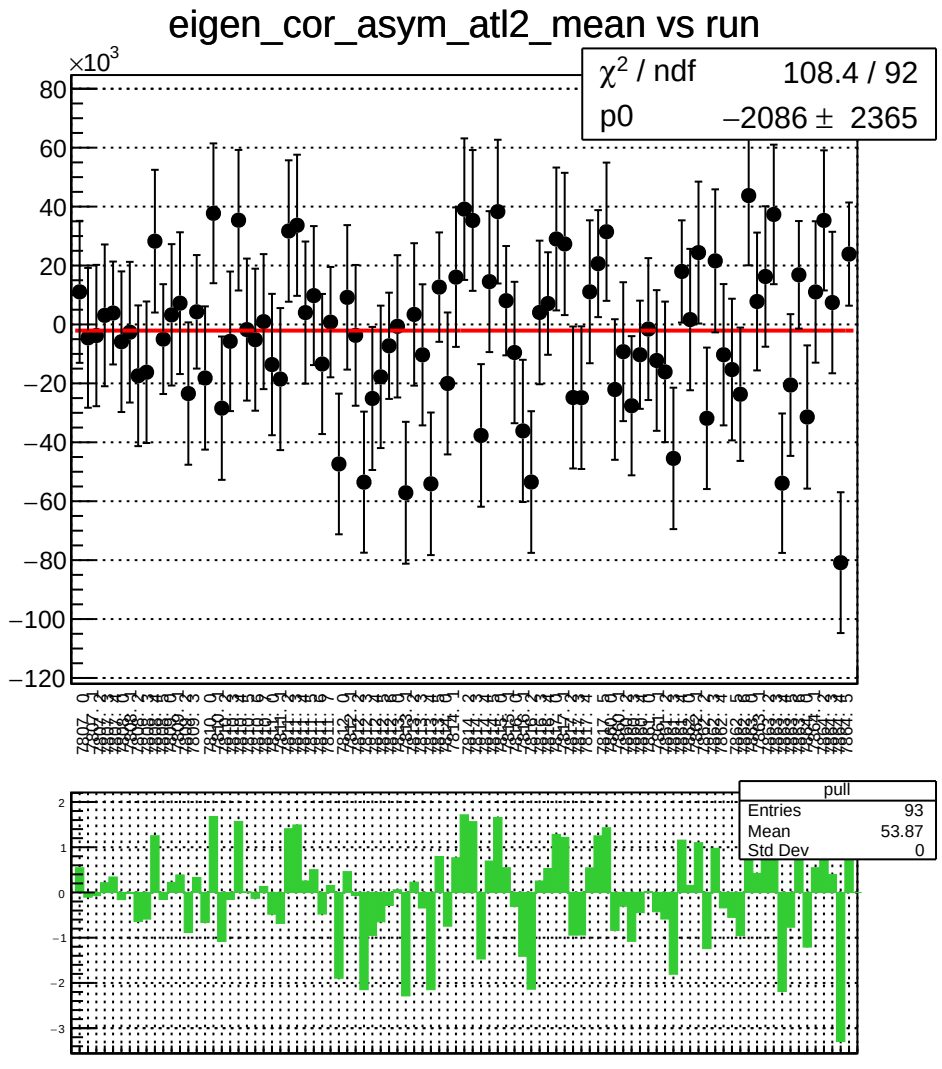

pull1D
Entries 93
Mean −0.02508
Std Dev 1.079

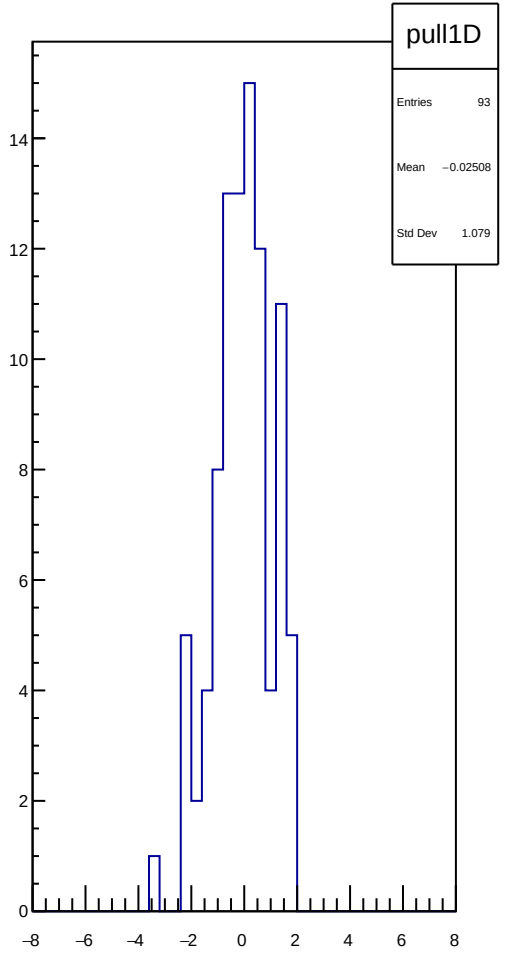

cor_asym_atl2_rms vs run
χ^2 / ndf 132.6 / 92
p0 2275 ± 1.672
2340
2320
2300
2280
2260
2240
2220
2200

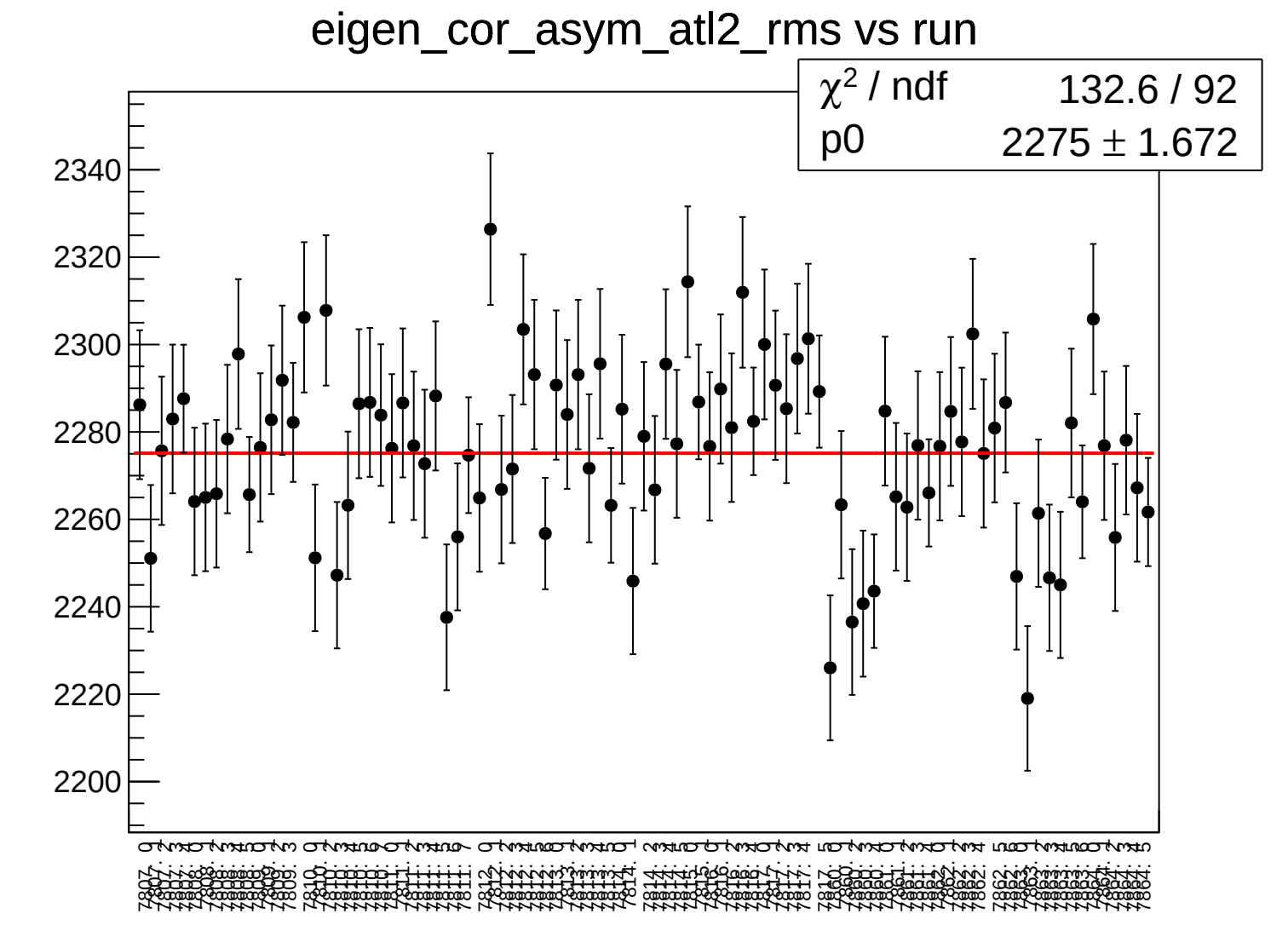

asym_atl2_cor_correction_mean vs run
χ² / ndf 84.41 / 92
p0 1.101e+04 ± 1.011e+04
×10³
pull
Entries 93
Mean −76.63
Std Dev 0

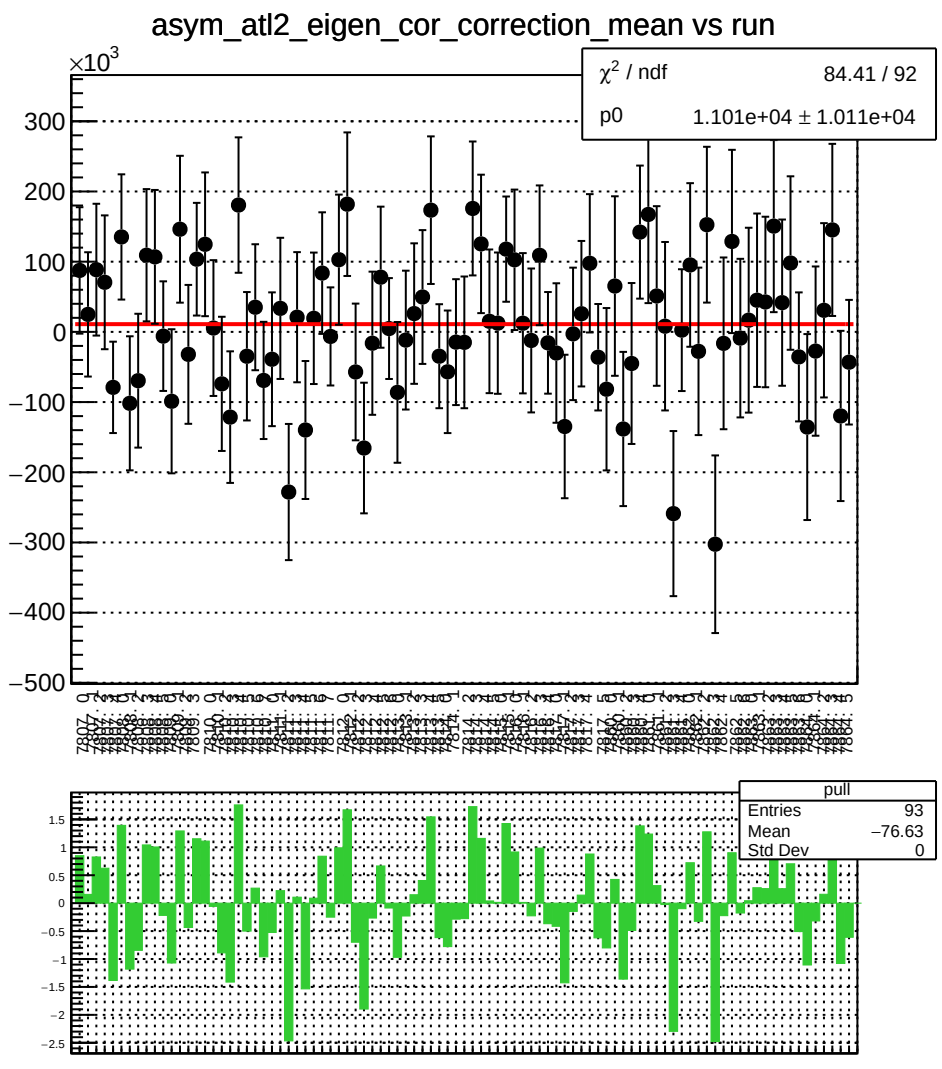

pull1D
Entries 93
Mean 0.007954
Std Dev 0.9527

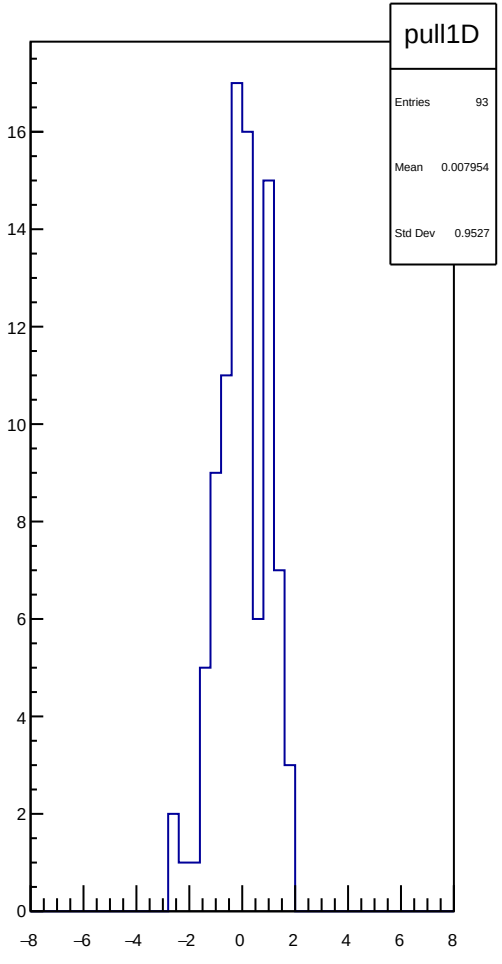

asym_atl2_cor_correction_rms vs run
χ² / ndf 2.368e+04 / 92
p0 9666 ± 7.149
13000
12000
11000
10000
9000
8000

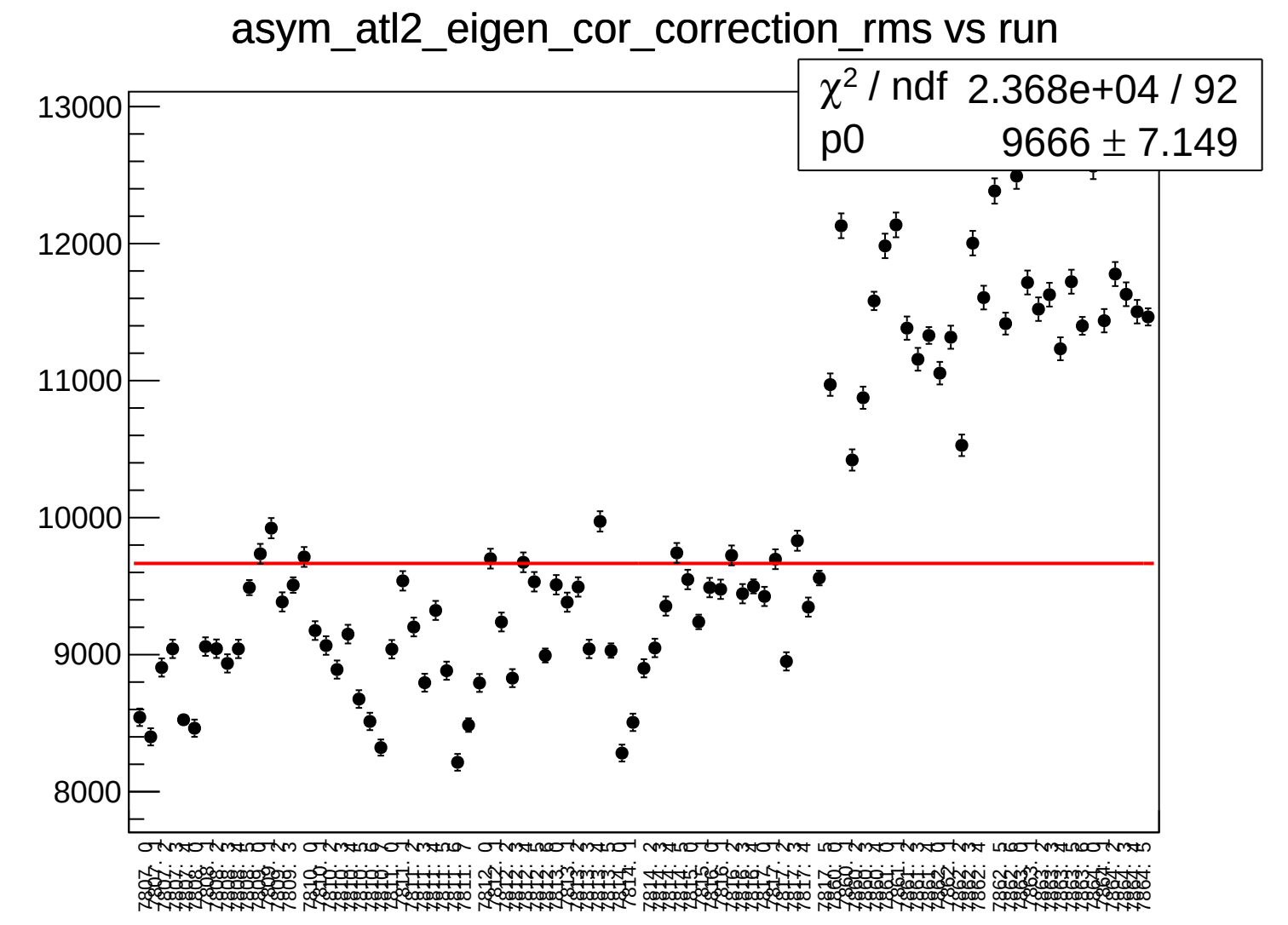

eigen_cor_asym_atl2_mean vs run
χ² / ndf 108.4 / 92
p0 −2086 ± 2365
×10³
pull
Entries 93
Mean 53.87
Std Dev 0

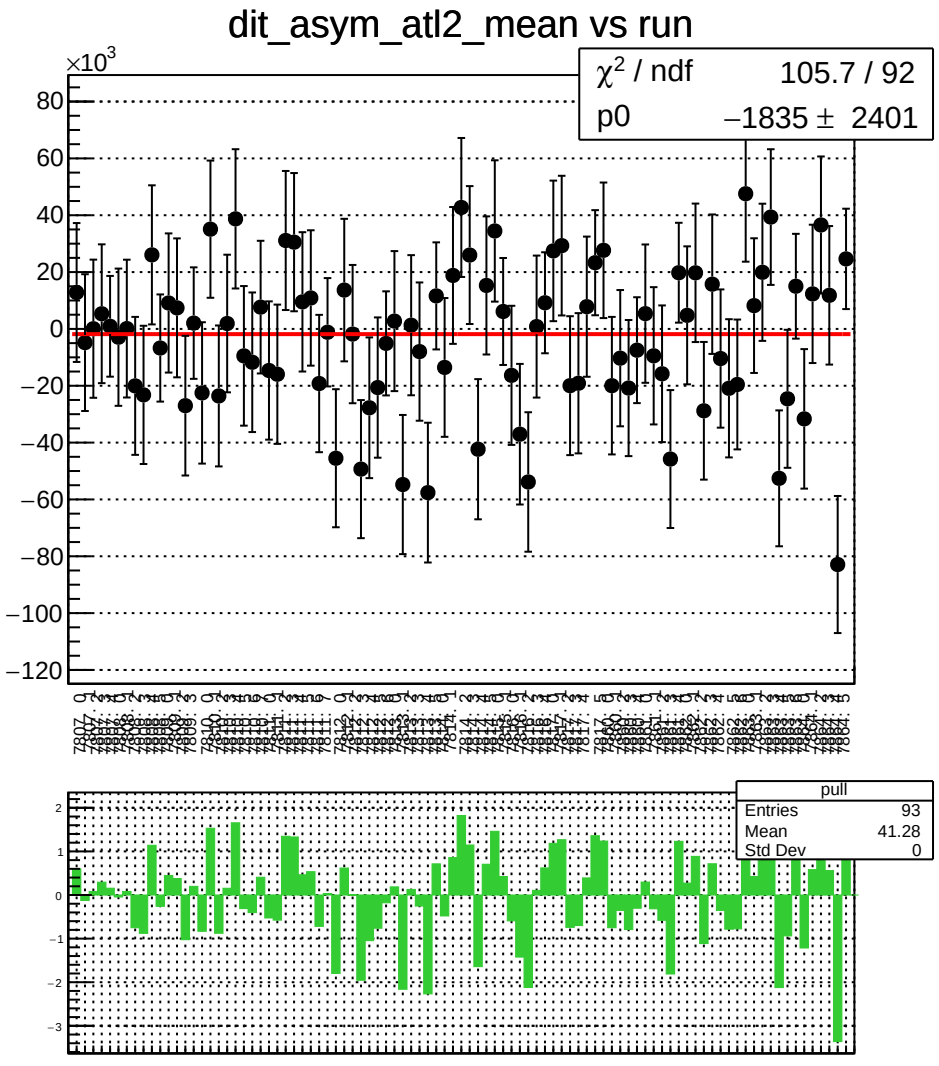

pull1D
Entries 93
Mean −0.02508
Std Dev 1.079

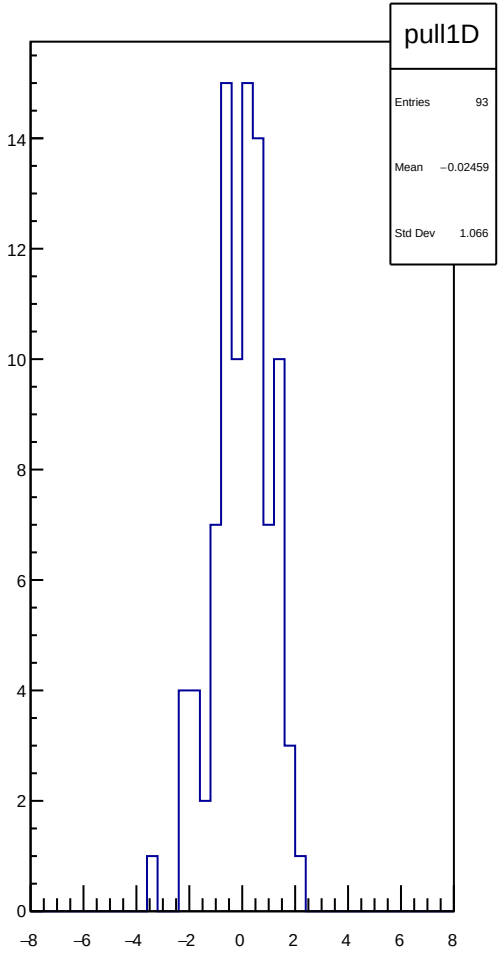

eigen_cor_asym_atl2_rms vs run
χ^2 / ndf 132.6 / 92
p0 2275 ± 1.672
2340
2320
2300
2280
2260
2240
2220
2200

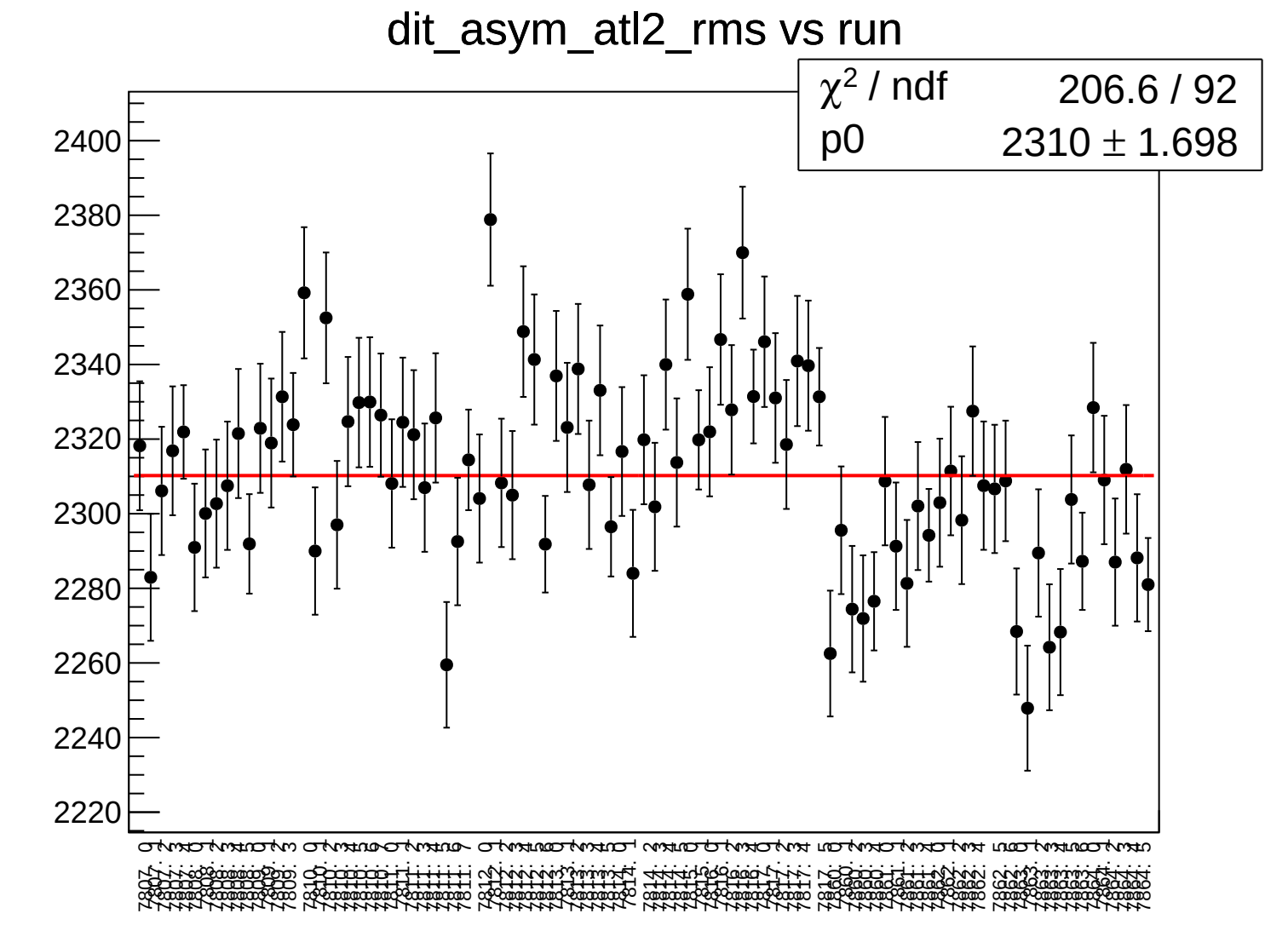

asym_atl2_eigen_cor_correction_mean vs run
χ² / ndf 84.41 / 92
p0 1.101e+04 ± 1.011e+04
×10³
pull
Entries 93
Mean −76.63
Std Dev 0

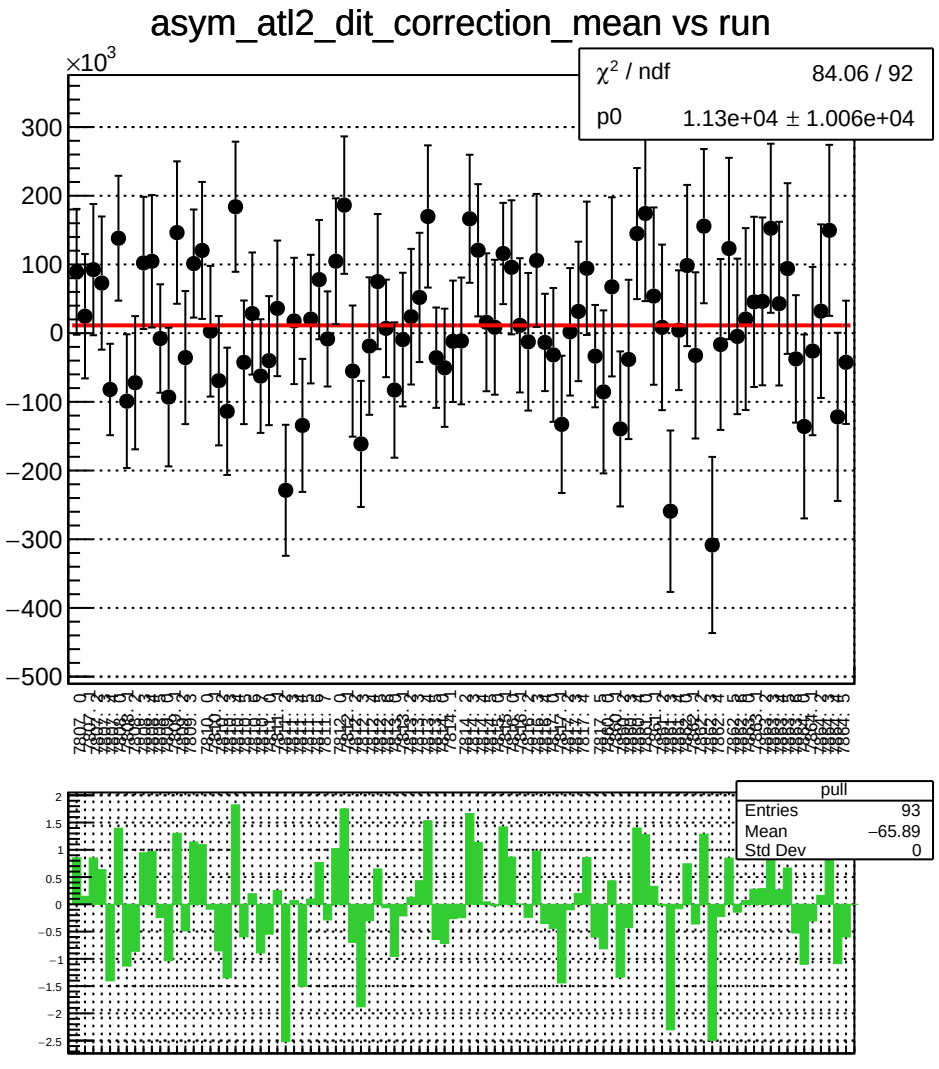

pull1D
Entries 93
Mean 0.007954
Std Dev 0.9527

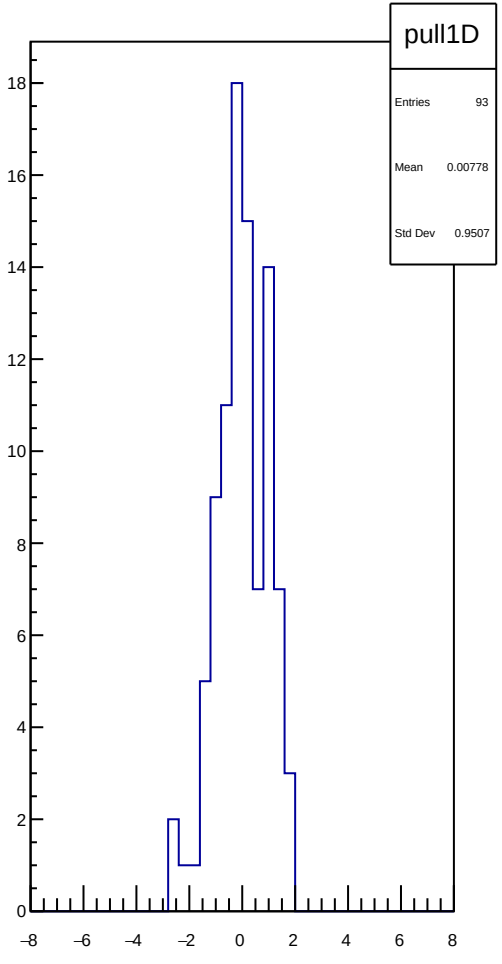

asym_atl2_eigen_cor_correction_rms vs run
χ² / ndf 2.368e+04 / 92
p0 9666 ± 7.149
13000
12000
11000
10000
9000
8000

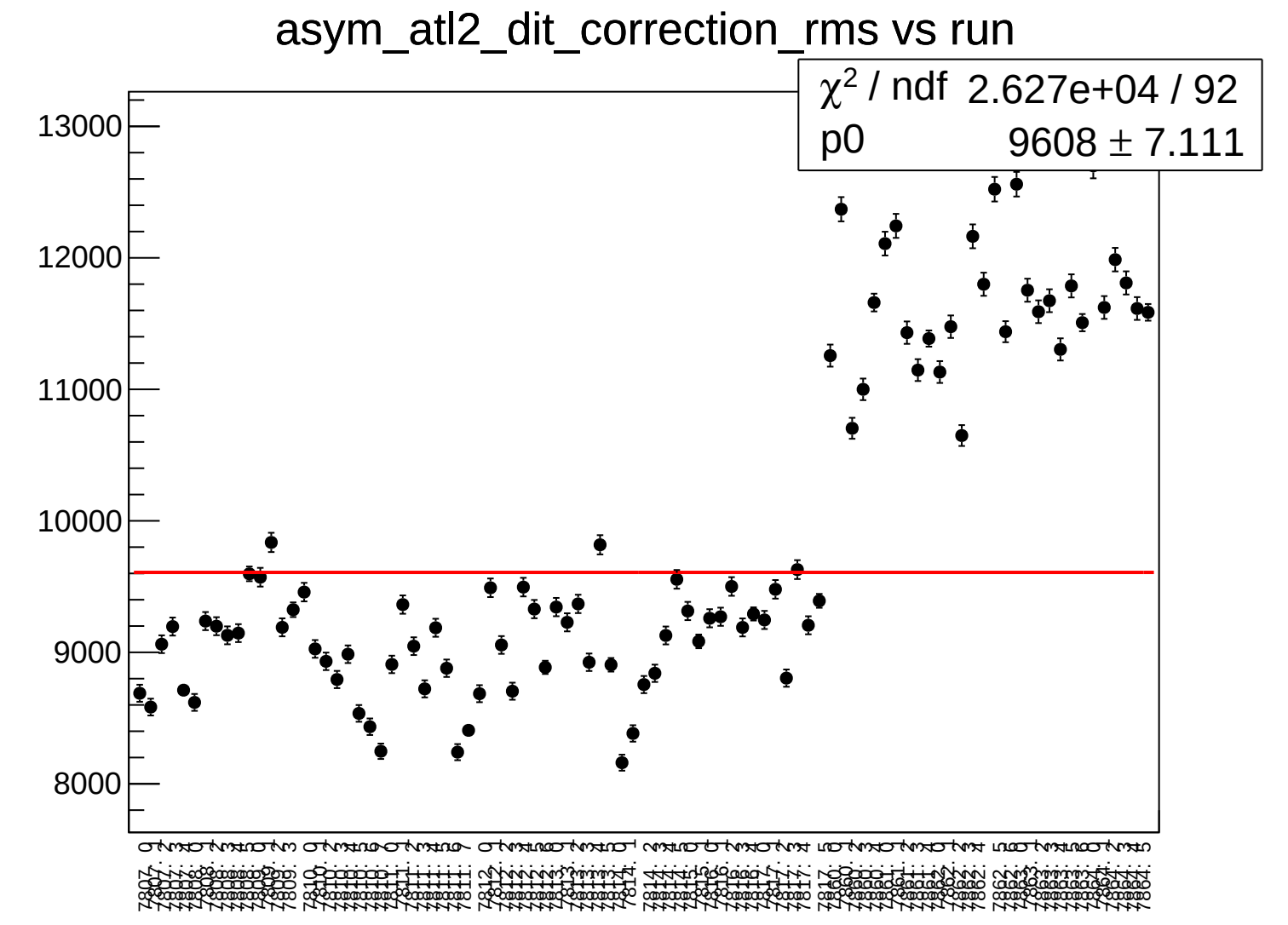

dit_asym_atl2_mean vs run
χ² / ndf 105.7 / 92
p0 −1835 ± 2401
×10³
pull
Entries 93
Mean 41.28
Std Dev 0

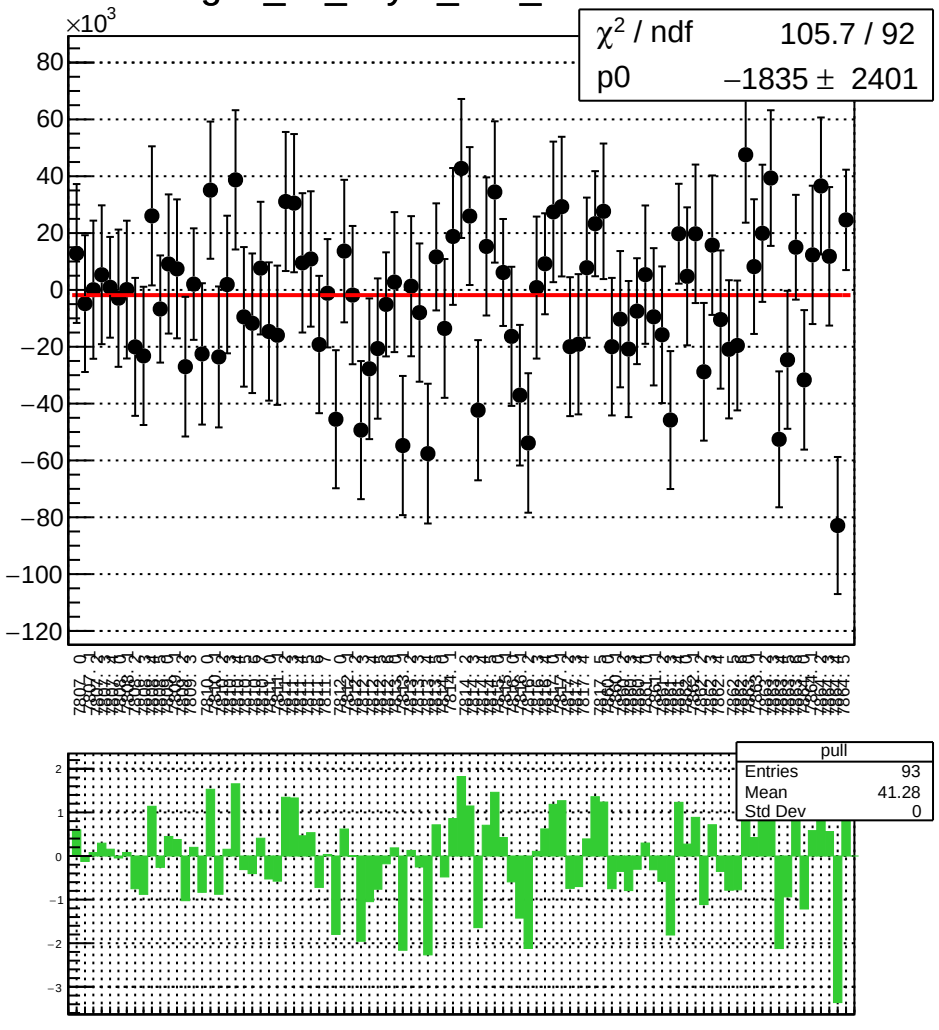

pull1D
Entries 93
Mean −0.02459
Std Dev 1.066

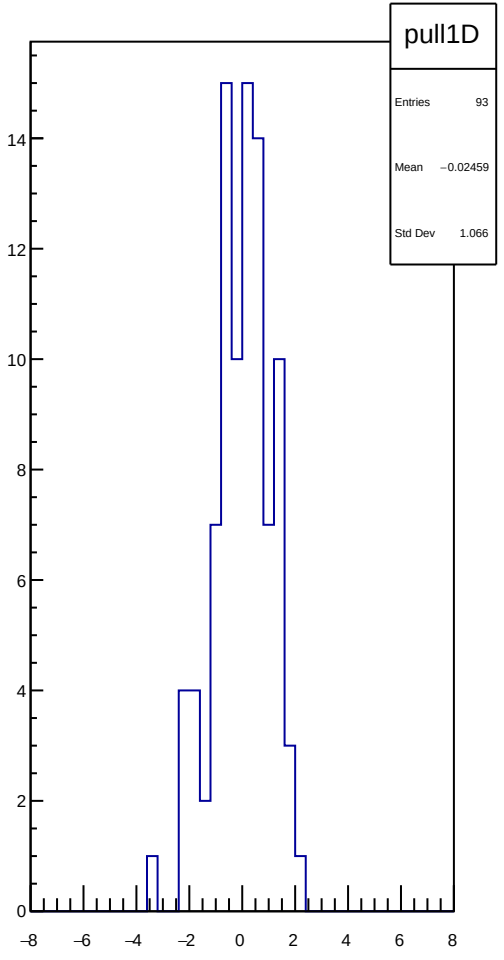

dit_asym_atl2_rms vs run
χ² / ndf 206.6 / 92
p0 2310 ± 1.698
2400
2380
2360
2340
2320
2300
2280
2260
2240
2220

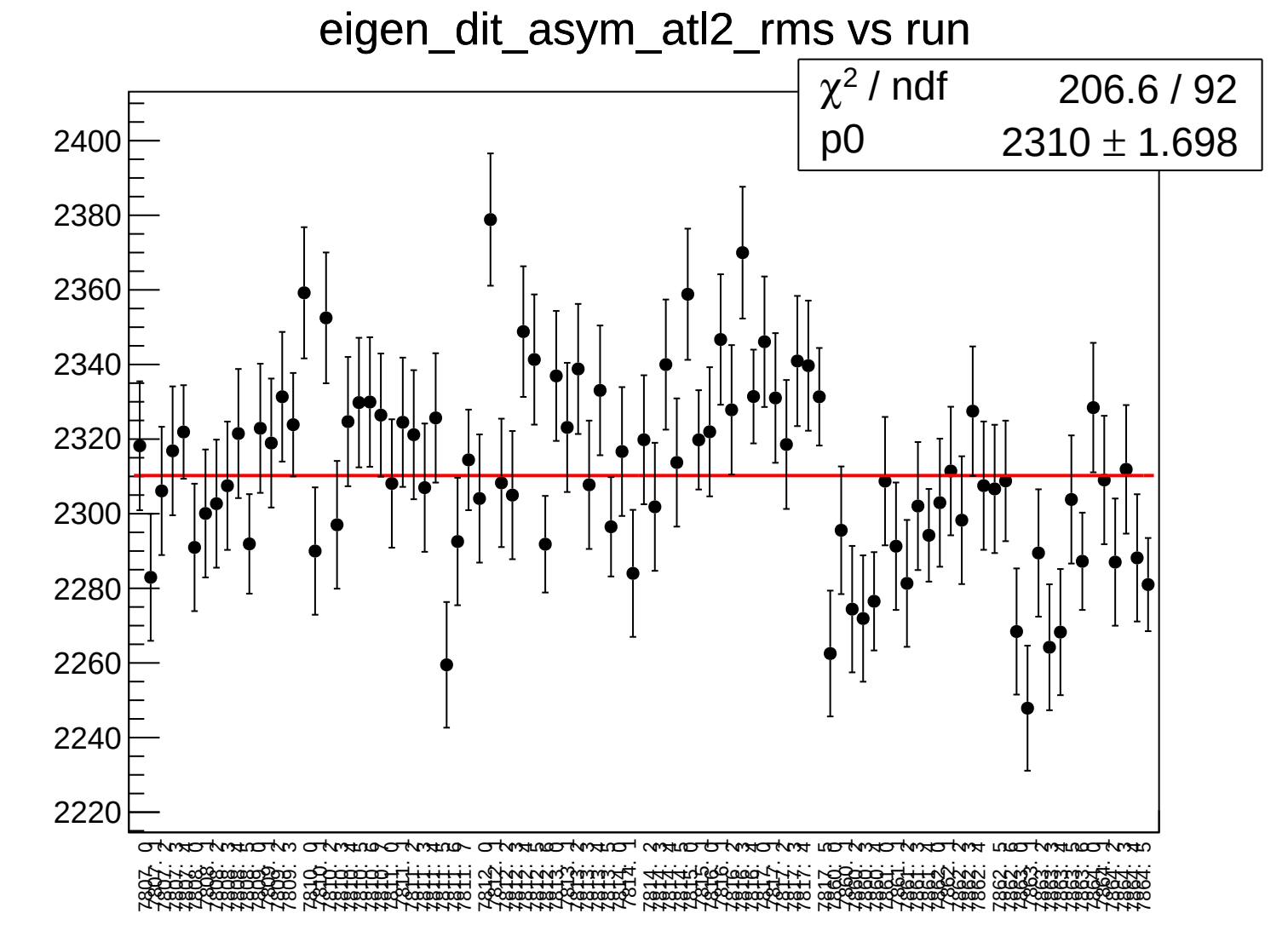

asym_atl2_dit_correction_mean vs run
×10^3
χ² / ndf 84.06 / 92
p0 1.13e+04 ± 1.006e+04
pull
Entries 93
Mean −65.89
Std Dev 0

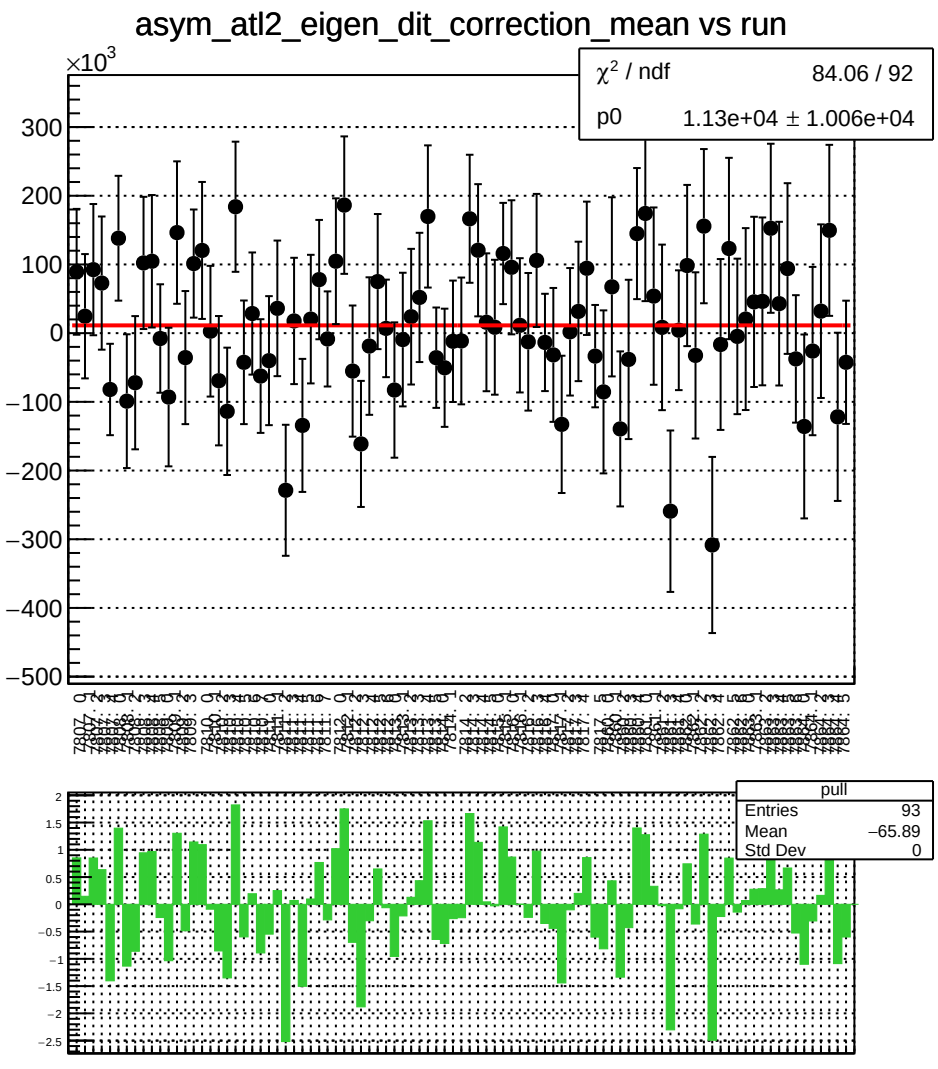

pull1D
Entries 93
Mean 0.00778
Std Dev 0.9507

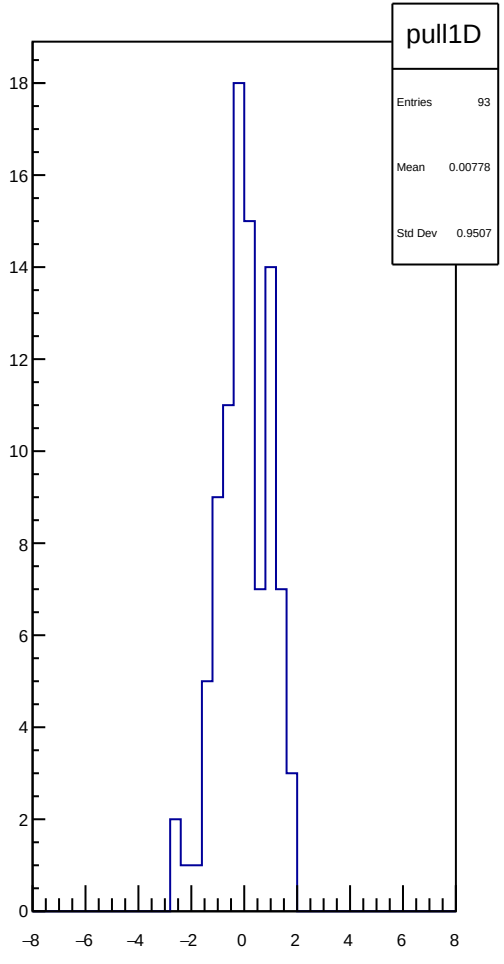

asym_atl2_dit_correction_rms vs run
χ² / ndf 2.627e+04 / 92
p0 9608 ± 7.111
13000
12000
11000
10000
9000
8000

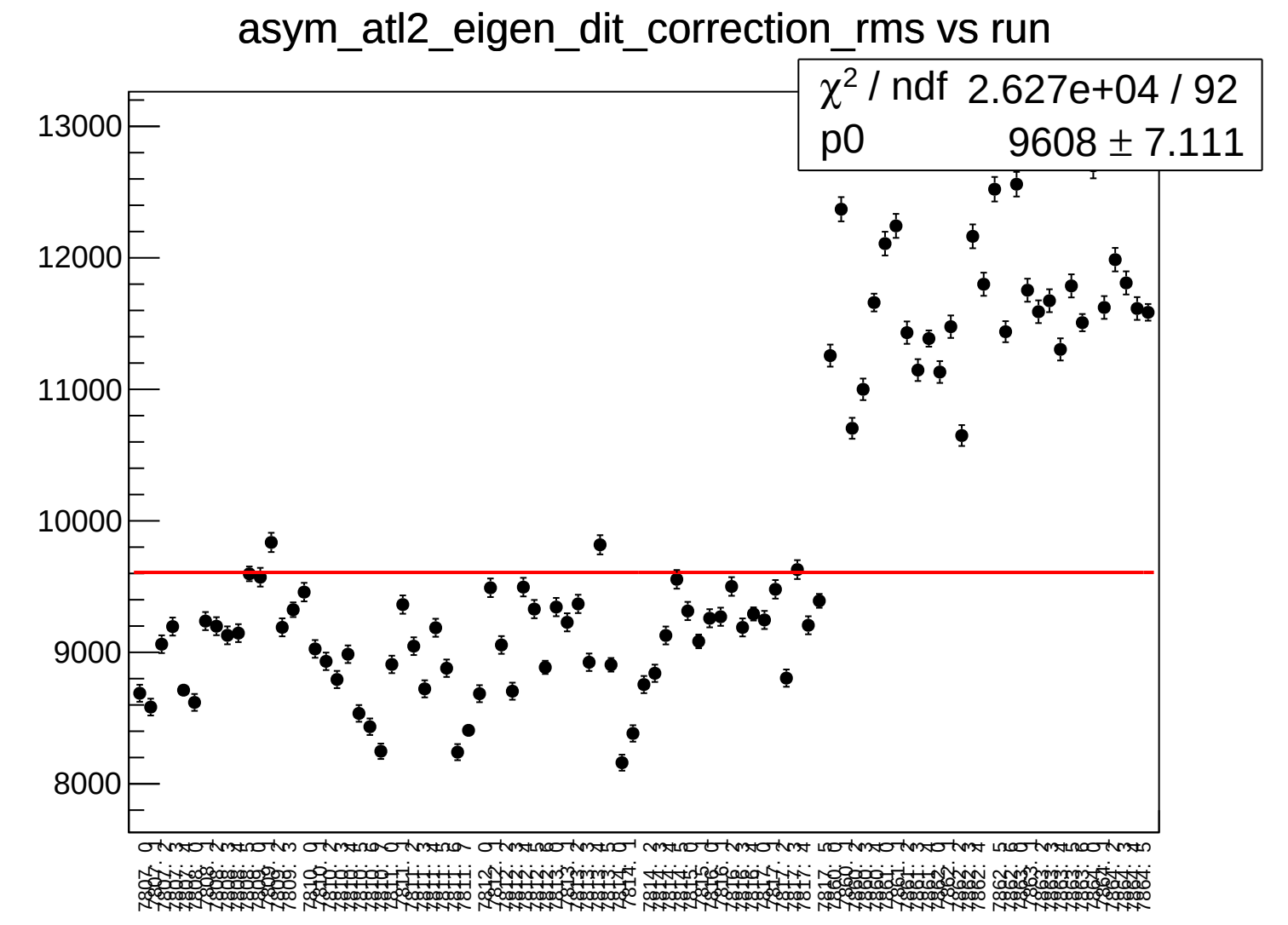

eigen_dit_asym_atl2_mean vs run
χ² / ndf 105.7 / 92
p0 −1835 ± 2401
pull
Entries 93
Mean 41.28
Std Dev 0

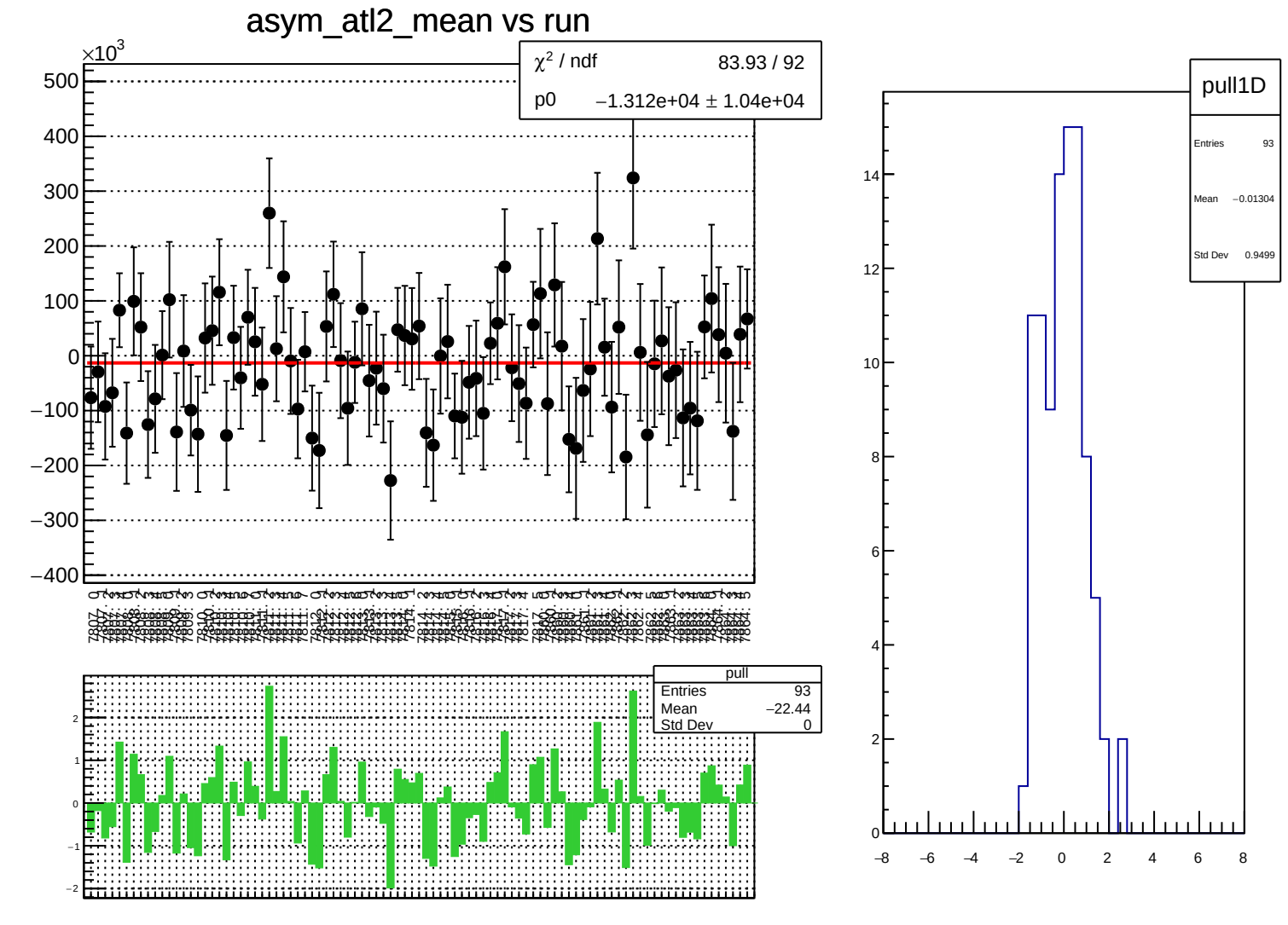

pull1D
Entries 93
Mean −0.02459
Std Dev 1.066

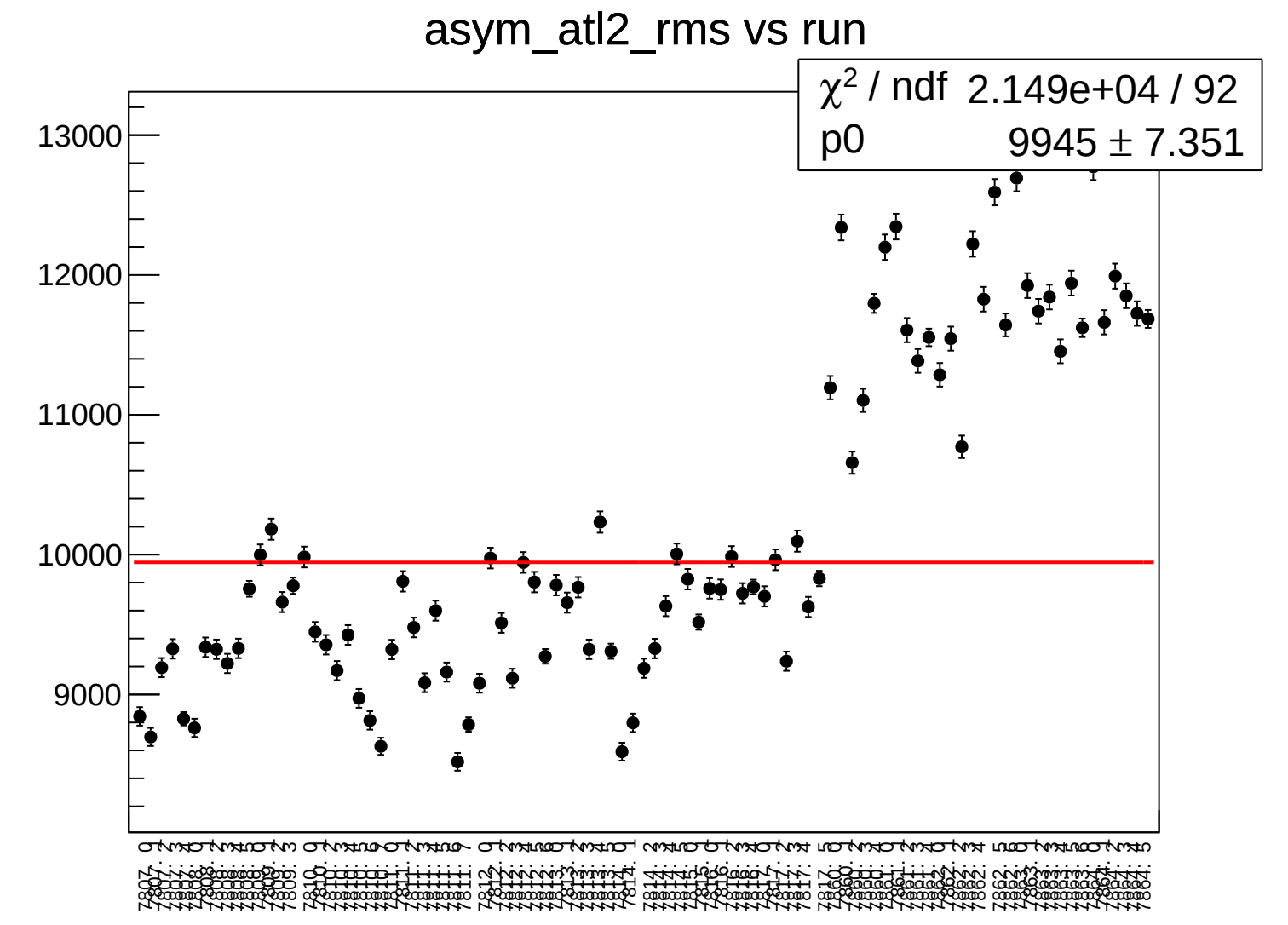

eigen_dit_asym_atl2_rms vs run
χ² / ndf 206.6 / 92
p0 2310 ± 1.698
2400
2380
2360
2340
2320
2300
2280
2260
2240
2220

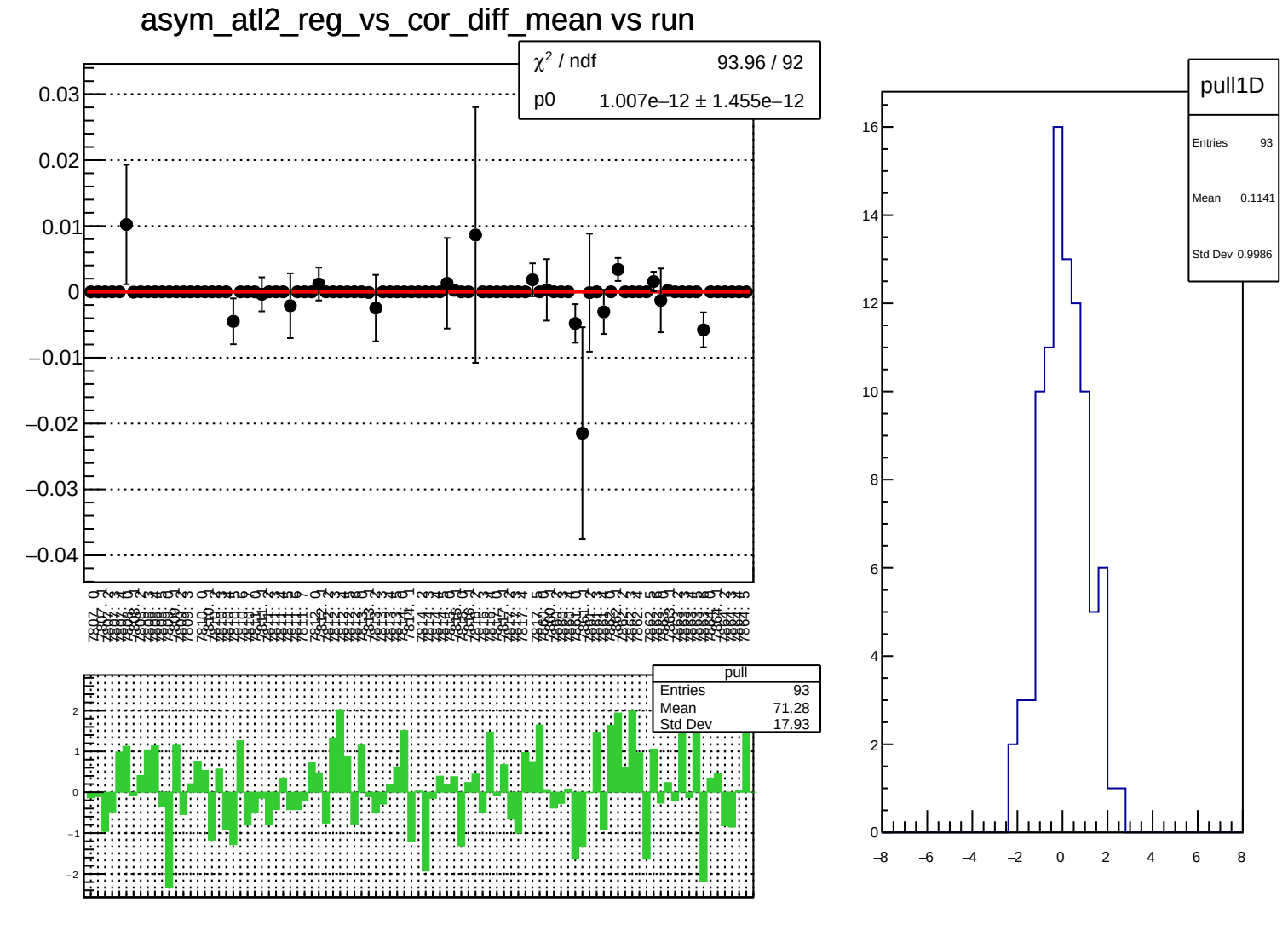

asym_atl2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 84.06 / 92
p0 1.13e+04 ± 1.006e+04
300
200
100
0
−100
−200
−300
−400
−500
pull
Entries 93
Mean −65.89
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

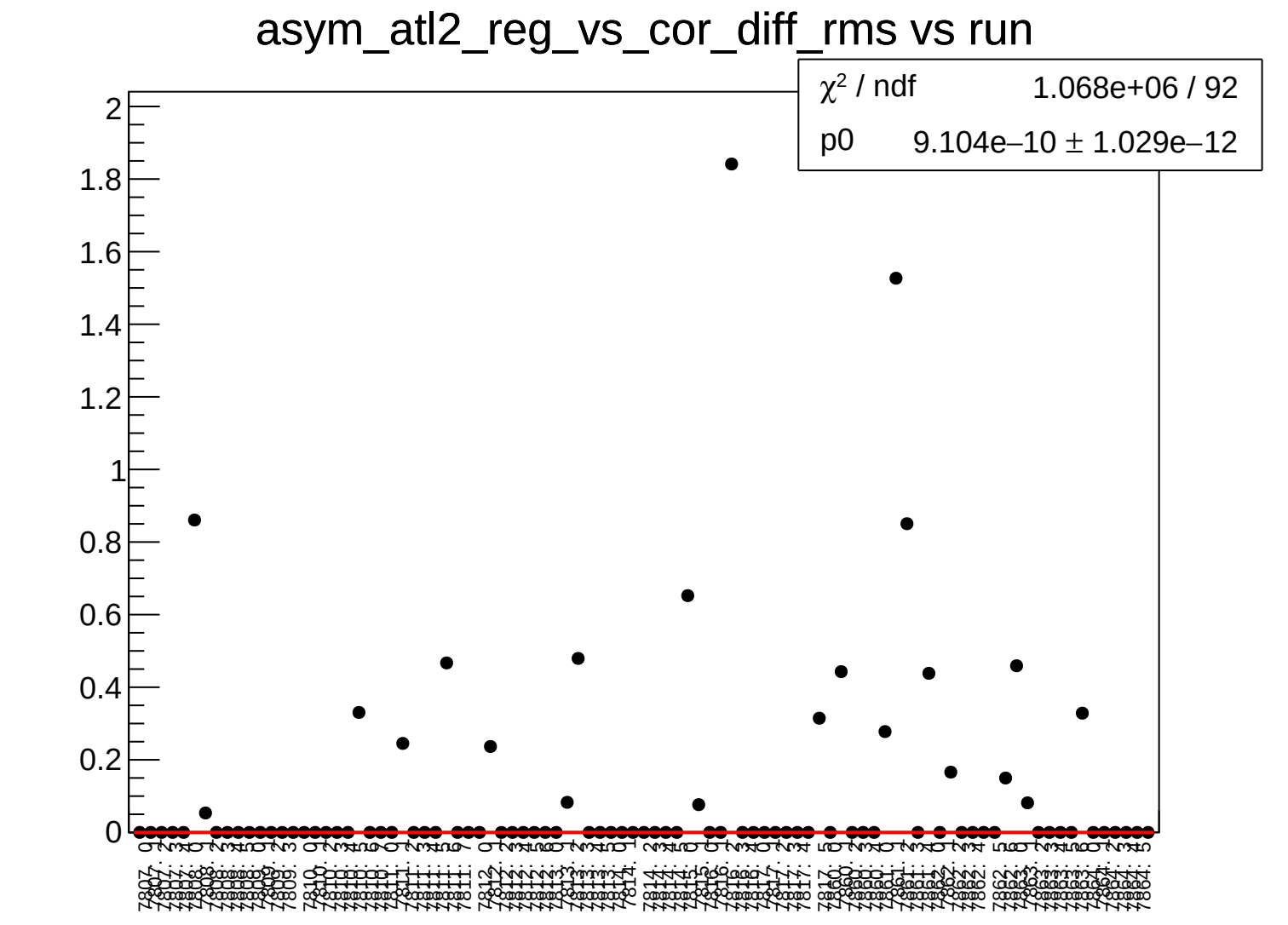

pull1D
Entries 93
Mean 0.00778
Std Dev 0.9507
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

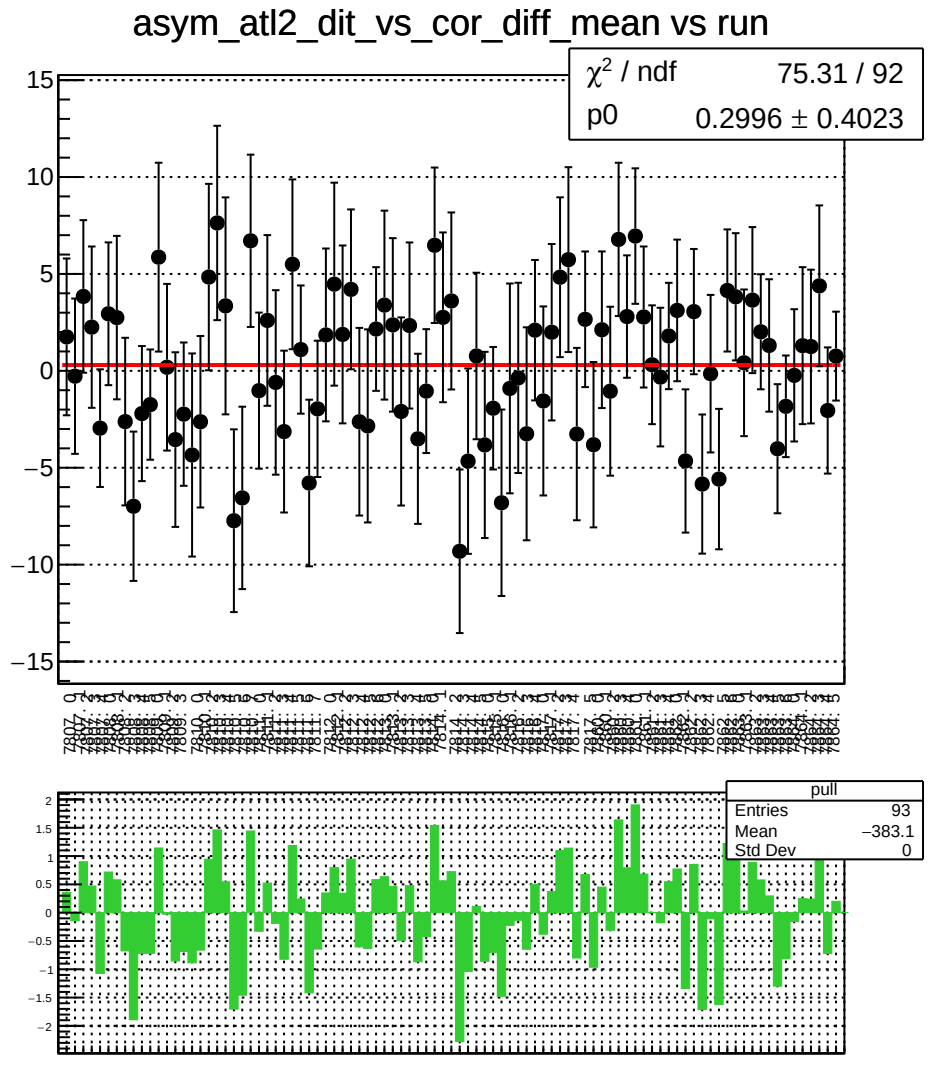

asym_atl2_eigen_dit_correction_rms vs run
χ² / ndf 2.627e+04 / 92
p0 9608 ± 7.111
13000
12000
11000
10000
9000
8000

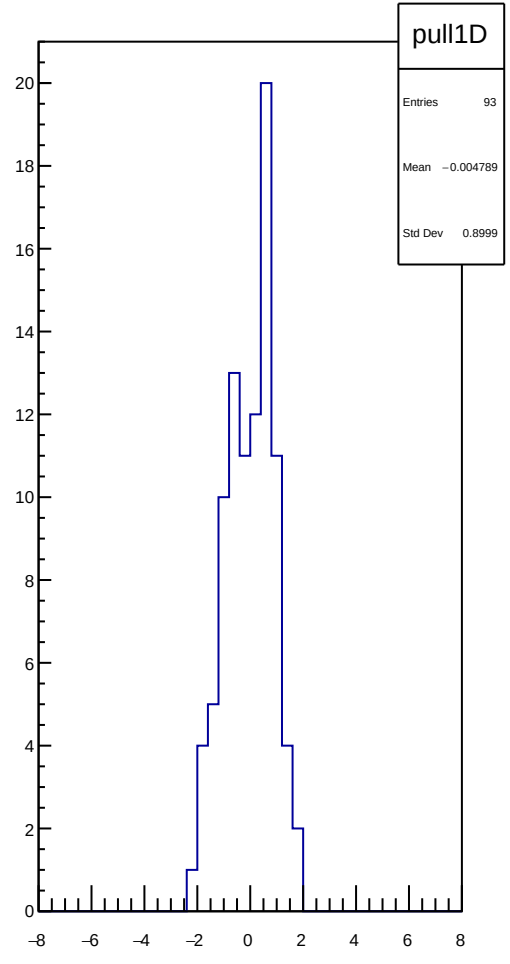

asym_atl2_mean vs run
×10^3
χ² / ndf 83.93 / 92
p0 −1.312e+04 ± 1.04e+04
pull
Entries 93
Mean −22.44
Std Dev 0
pull1D
Entries 93
Mean −0.01304
Std Dev 0.9499

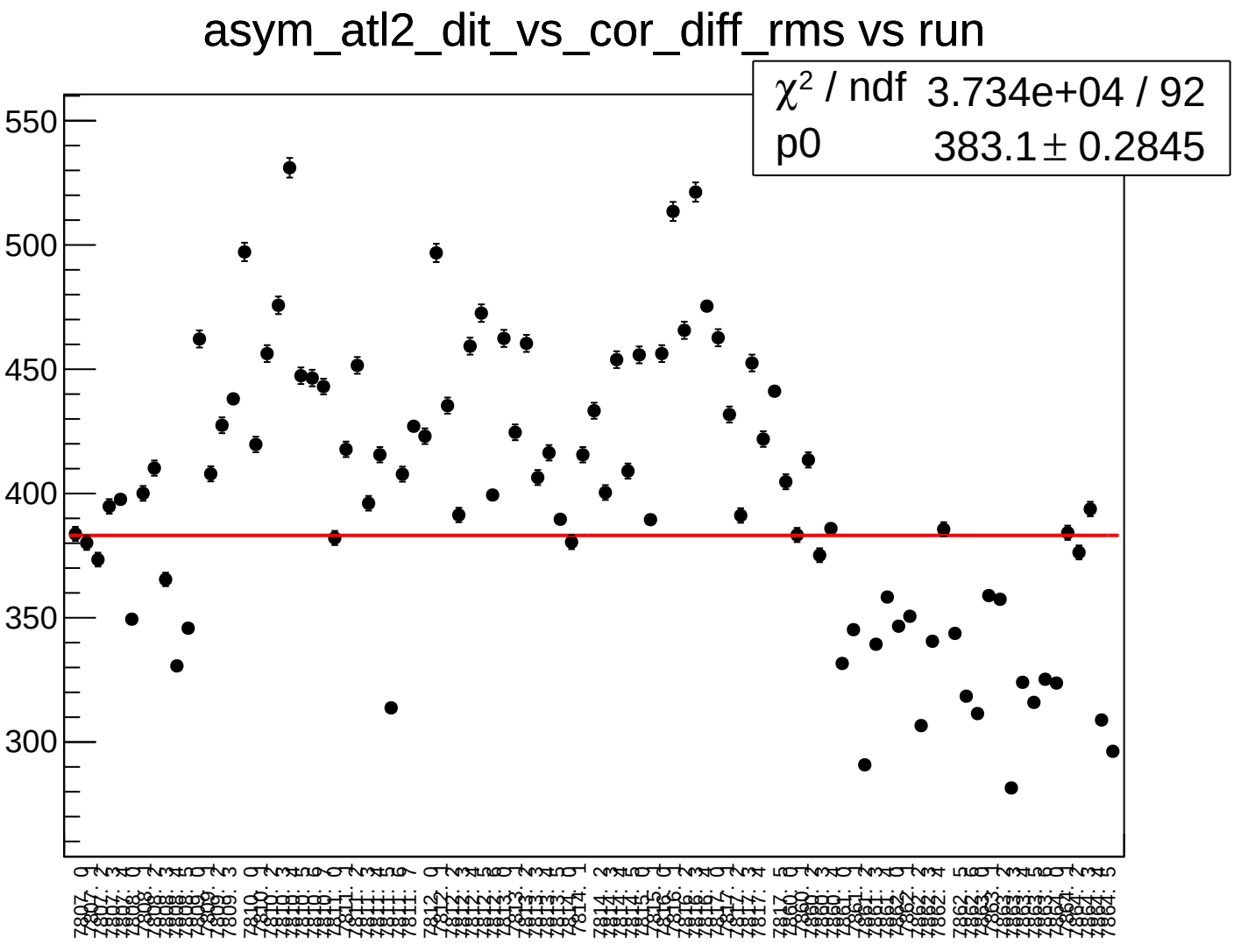

asym_atl2_rms vs run
χ² / ndf 2.149e+04 / 92
p0 9945 ± 7.351
13000
12000
11000
10000
9000

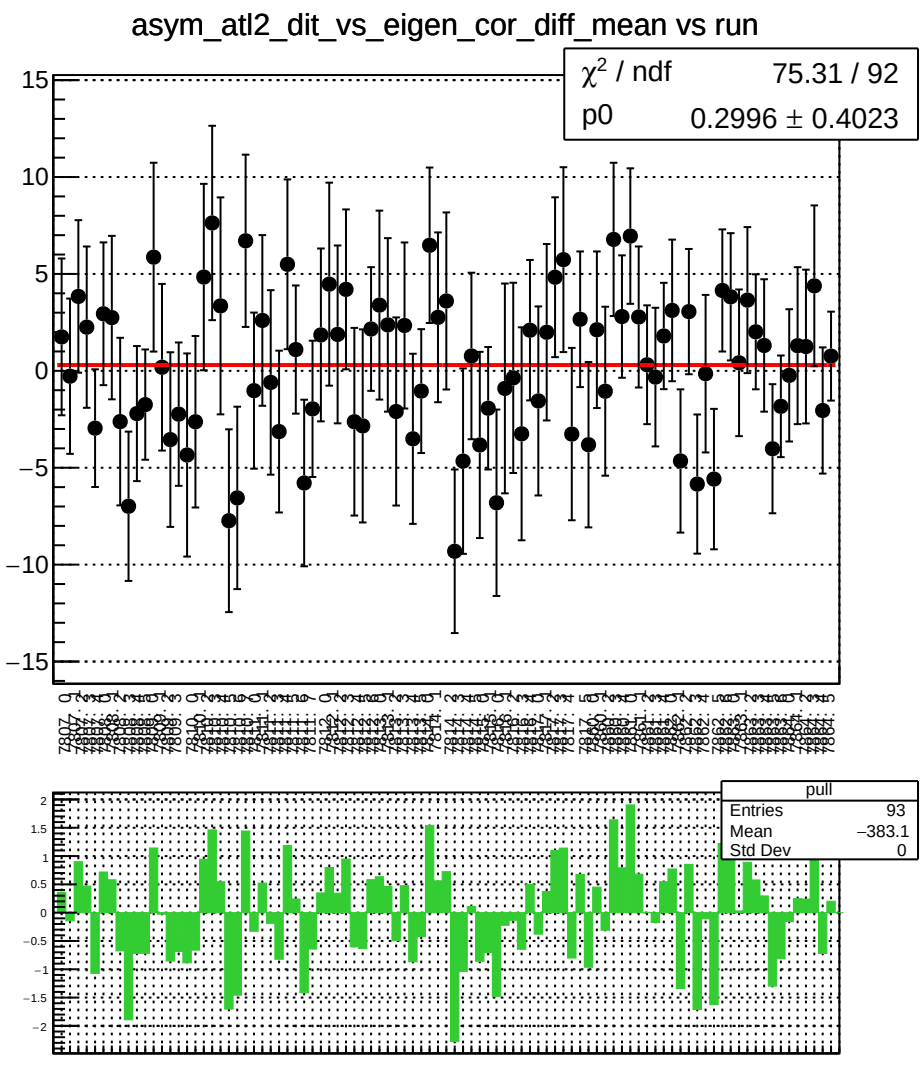

asym_atl2_reg_vs_cor_diff_mean vs run
χ² / ndf 93.96 / 92
p0 1.007e−12 ± 1.455e−12
pull
Entries 93
Mean 71.28
Std Dev 17.93
pull1D
Entries 93
Mean 0.1141
Std Dev 0.9986

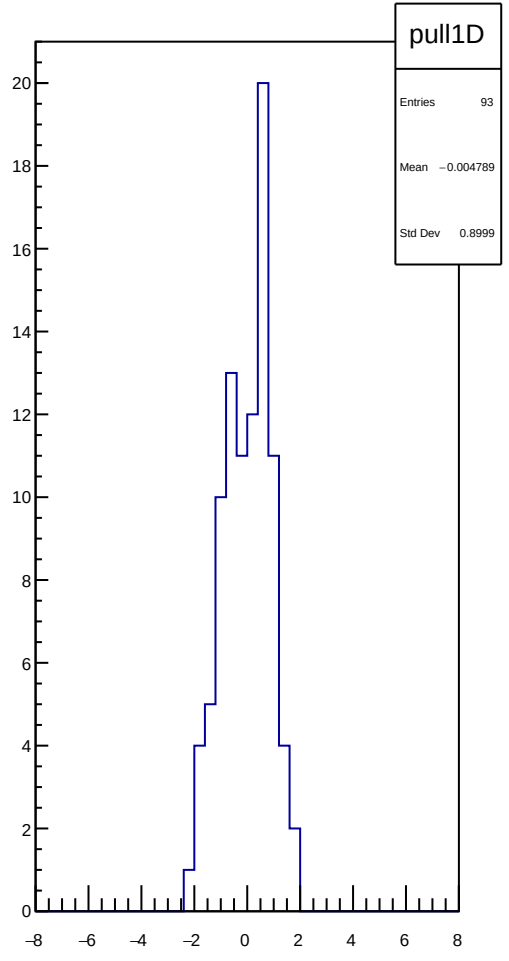

asym_atl2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.068e+06 / 92
p0 9.104e−10 ± 1.029e−12
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

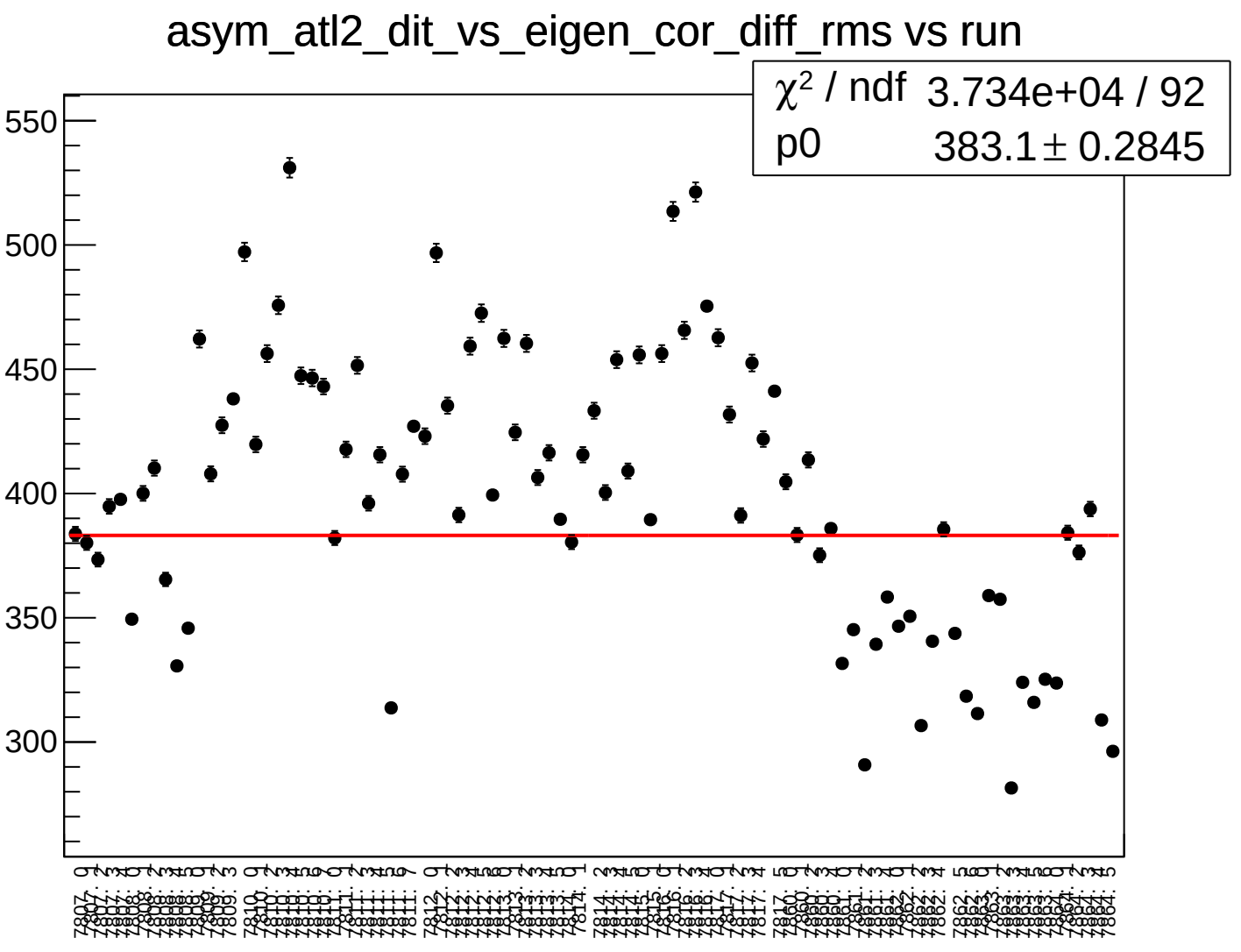

asym_atl2_dit_vs_cor_diff_mean vs run
χ² / ndf 75.31 / 92
p0 0.2996 ± 0.4023
pull
Entries 93
Mean −383.1
Std Dev 0

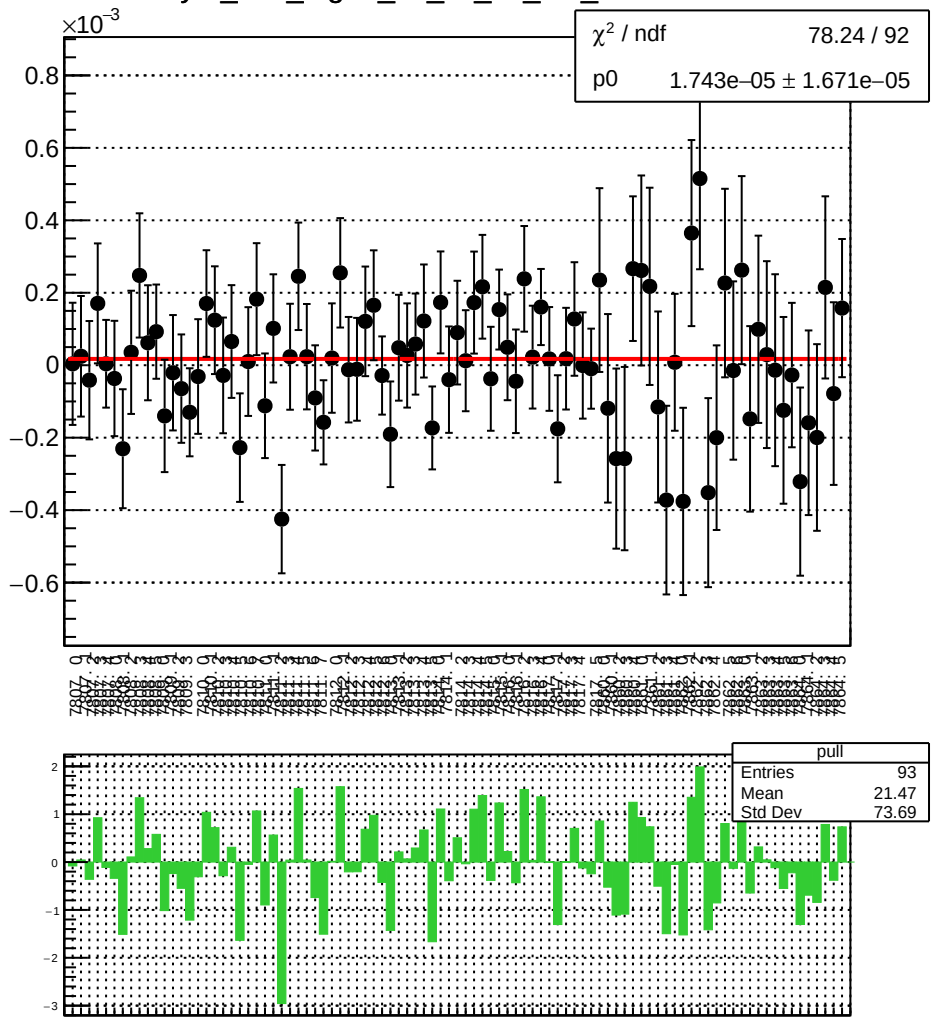

pull1D
Entries 93
Mean −0.004789
Std Dev 0.8999

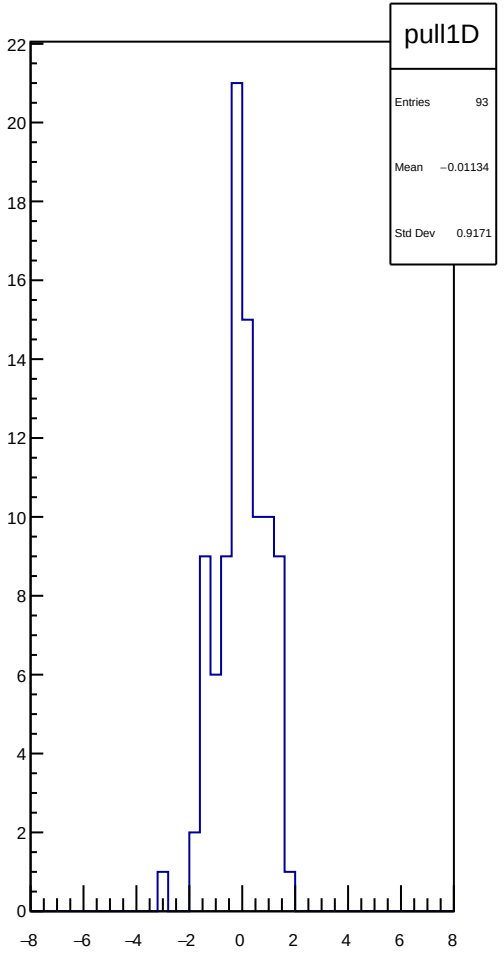

asym_atl2_dit_vs_cor_diff_rms vs run
χ² / ndf 3.734e+04 / 92
p0 383.1 ± 0.2845
550
500
450
400
350
300

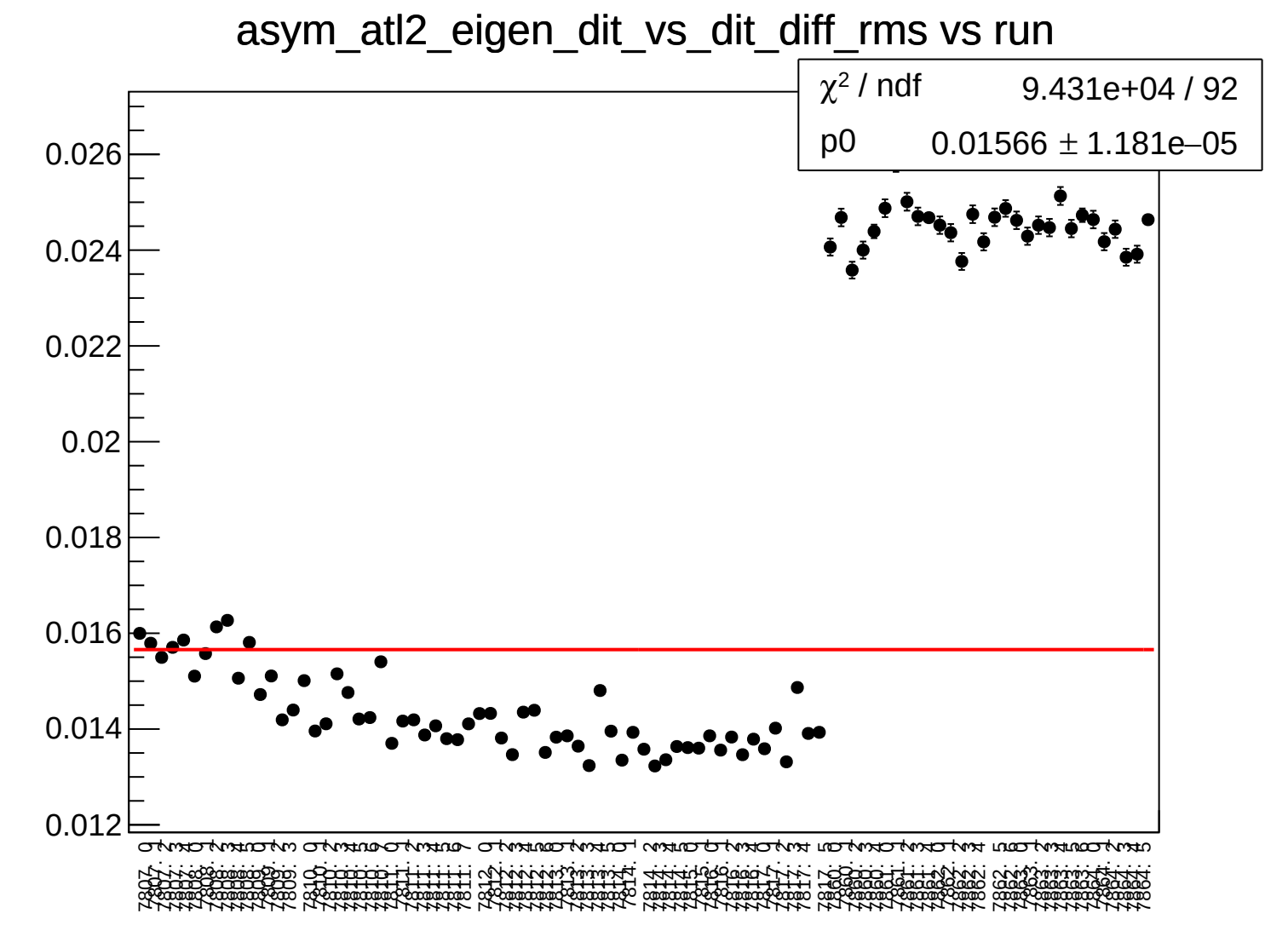

asym_atl2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.31 / 92
p0 0.2996 ± 0.4023
pull
Entries 93
Mean −383.1
Std Dev 0

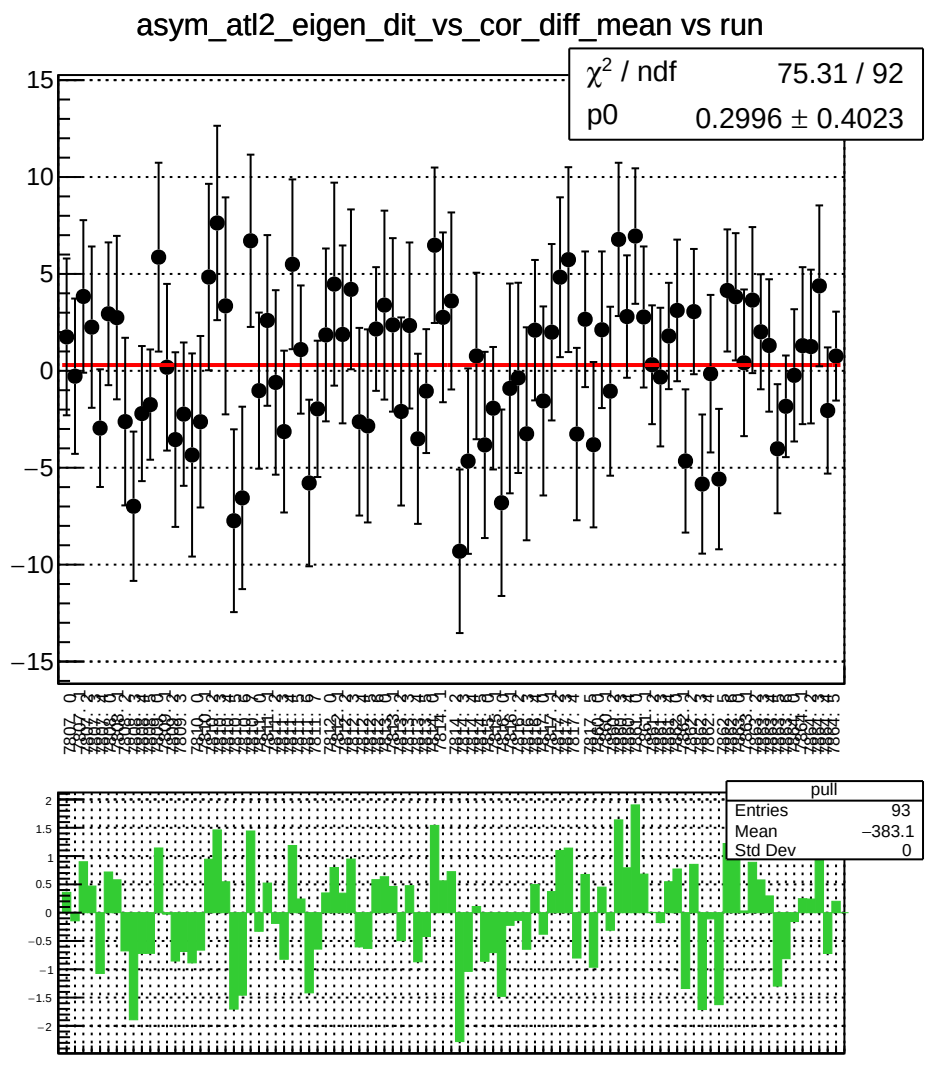

pull1D
Entries 93
Mean −0.004789
Std Dev 0.8999

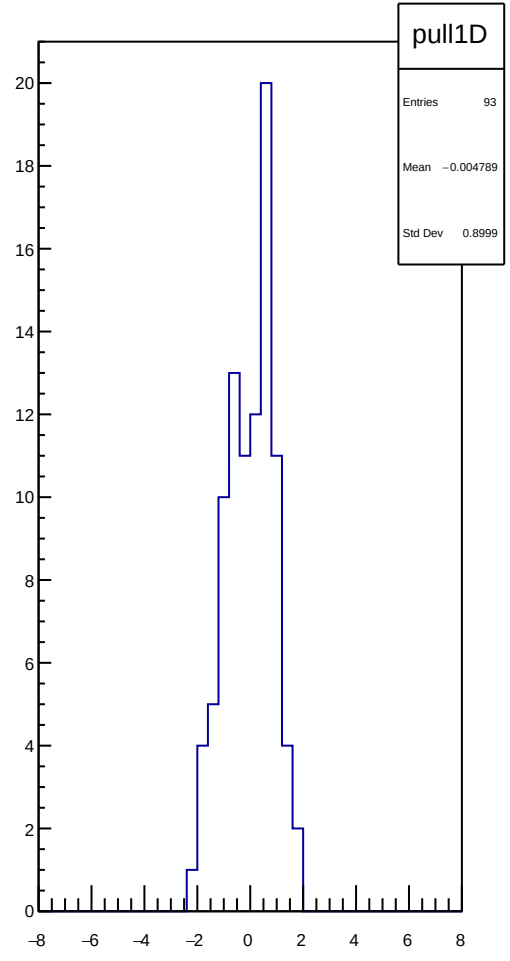

asym_atl2_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 3.734e+04 / 92
p0 383.1 ± 0.2845
550
500
450
400
350
300

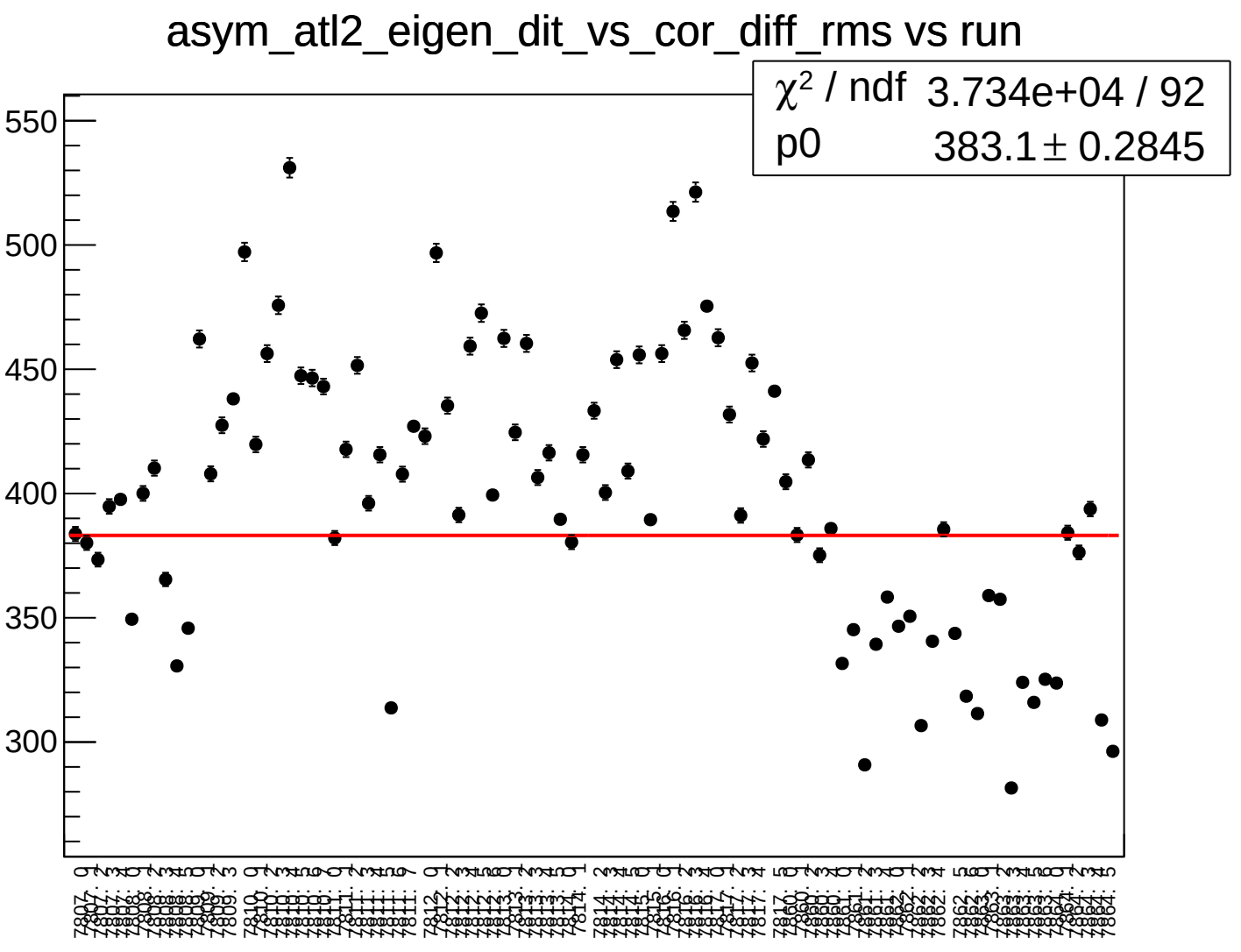

asym_atl2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 78.24 / 92
p0 1.743e−05 ± 1.671e−05
×10⁻³
pull
Entries 93
Mean 21.47
Std Dev 73.69

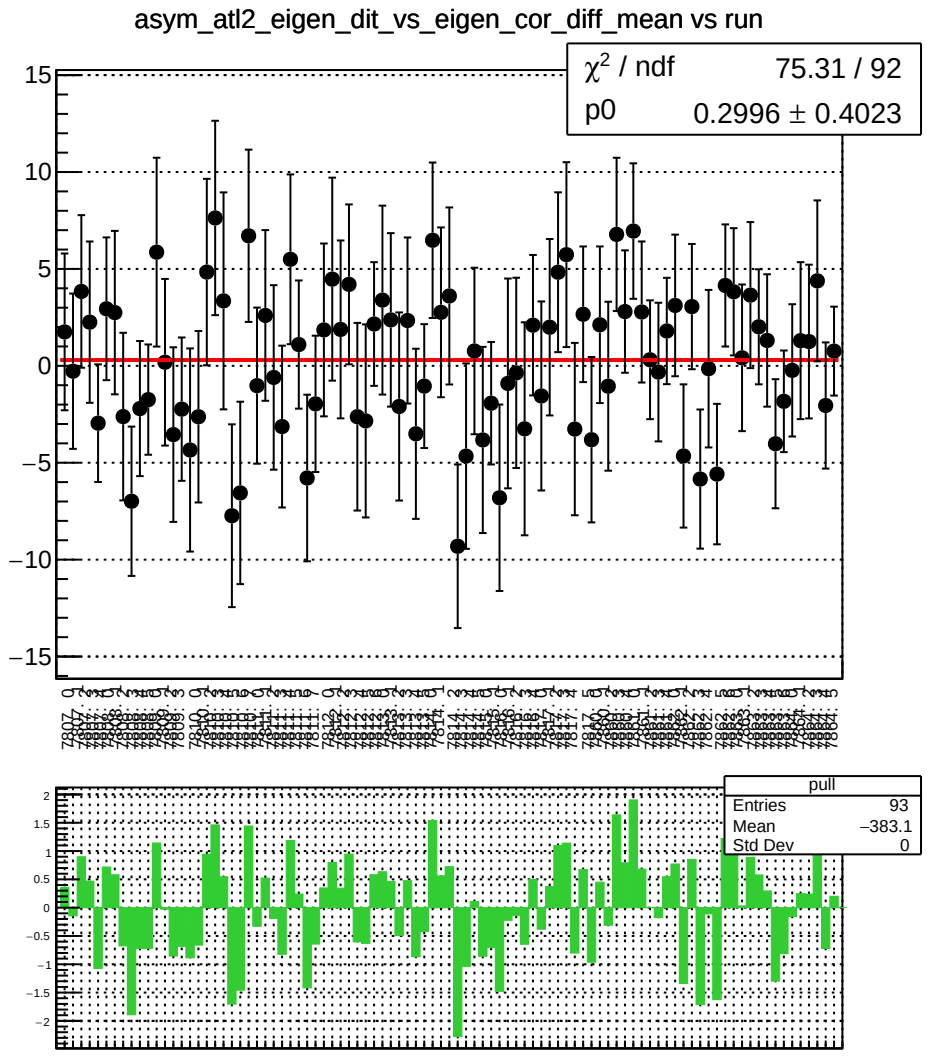

pull1D
Entries 93
Mean −0.01134
Std Dev 0.9171

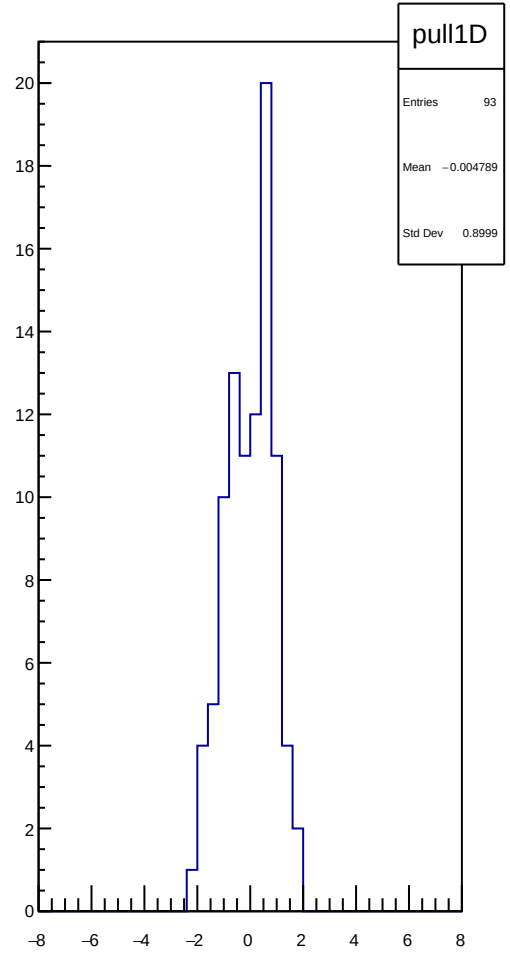

asym_atl2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.431e+04 / 92
p0 0.01566 ± 1.181e−05
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012

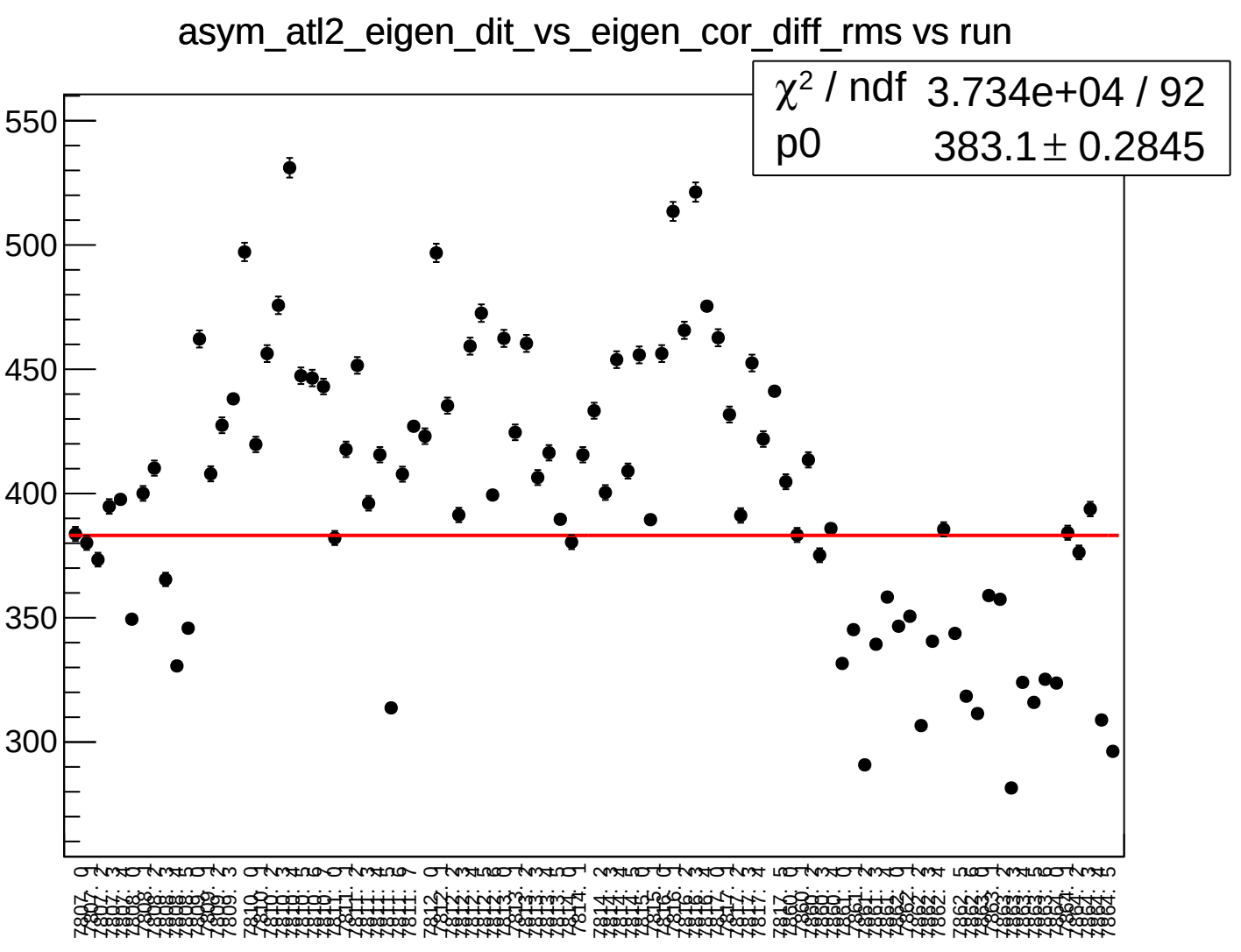

asym_atl2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.31 / 92
p0 0.2996 ± 0.4023
pull
Entries 93
Mean −383.1
Std Dev 0

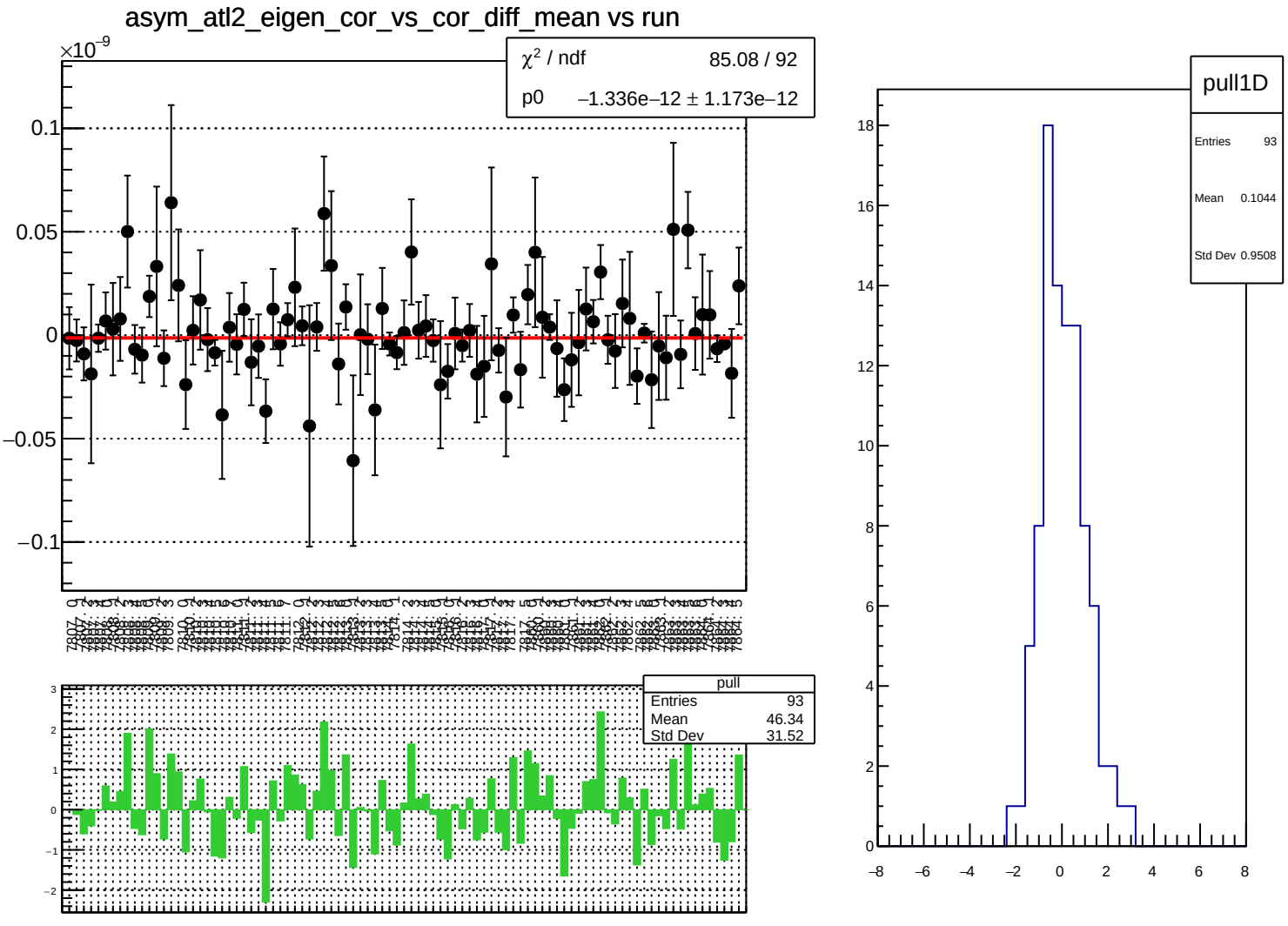

pull1D
Entries 93
Mean −0.004789
Std Dev 0.8999

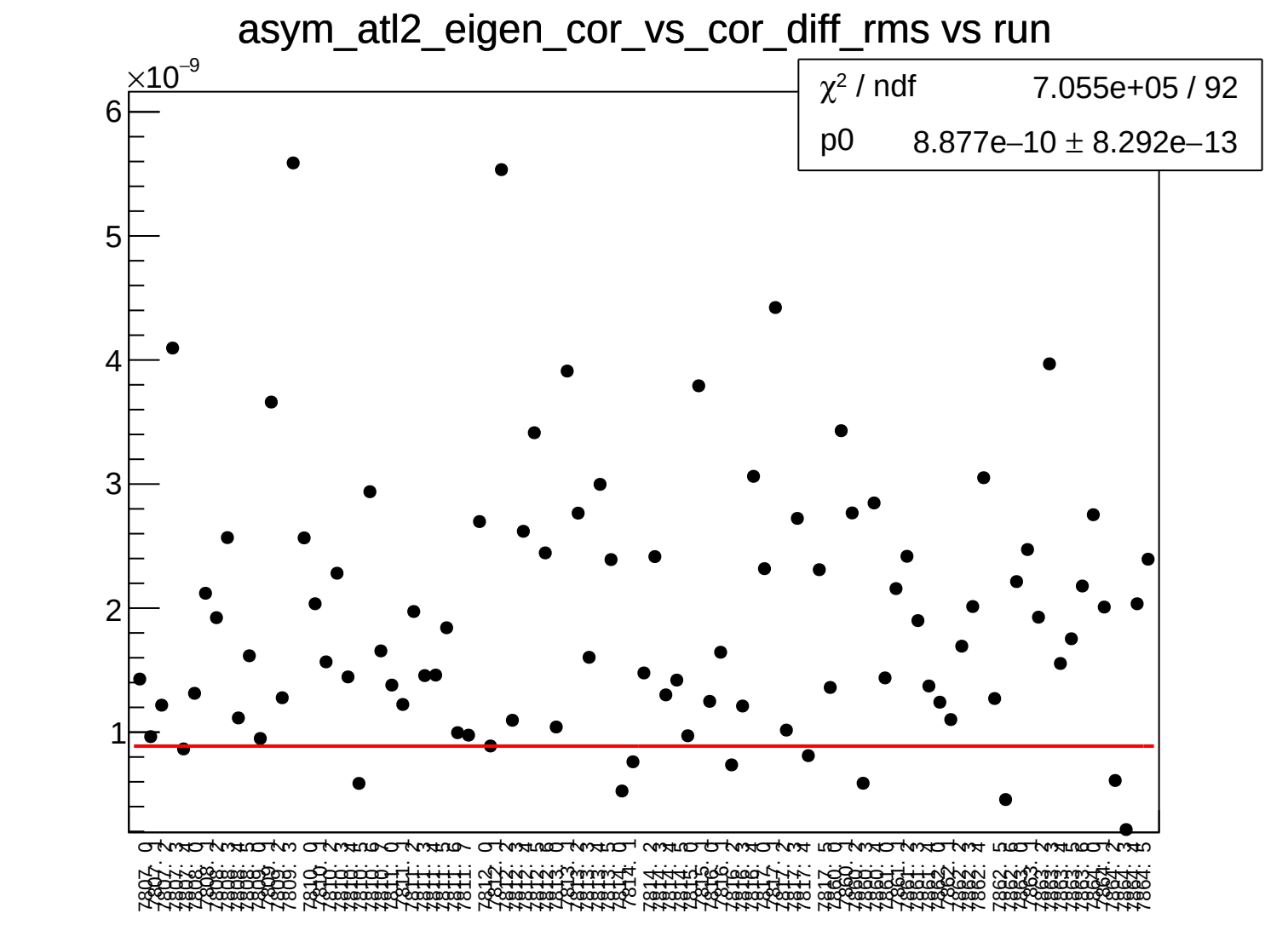

asym_atl2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.734e+04 / 92
p0 383.1 ± 0.2845
550
500
450
400
350
300

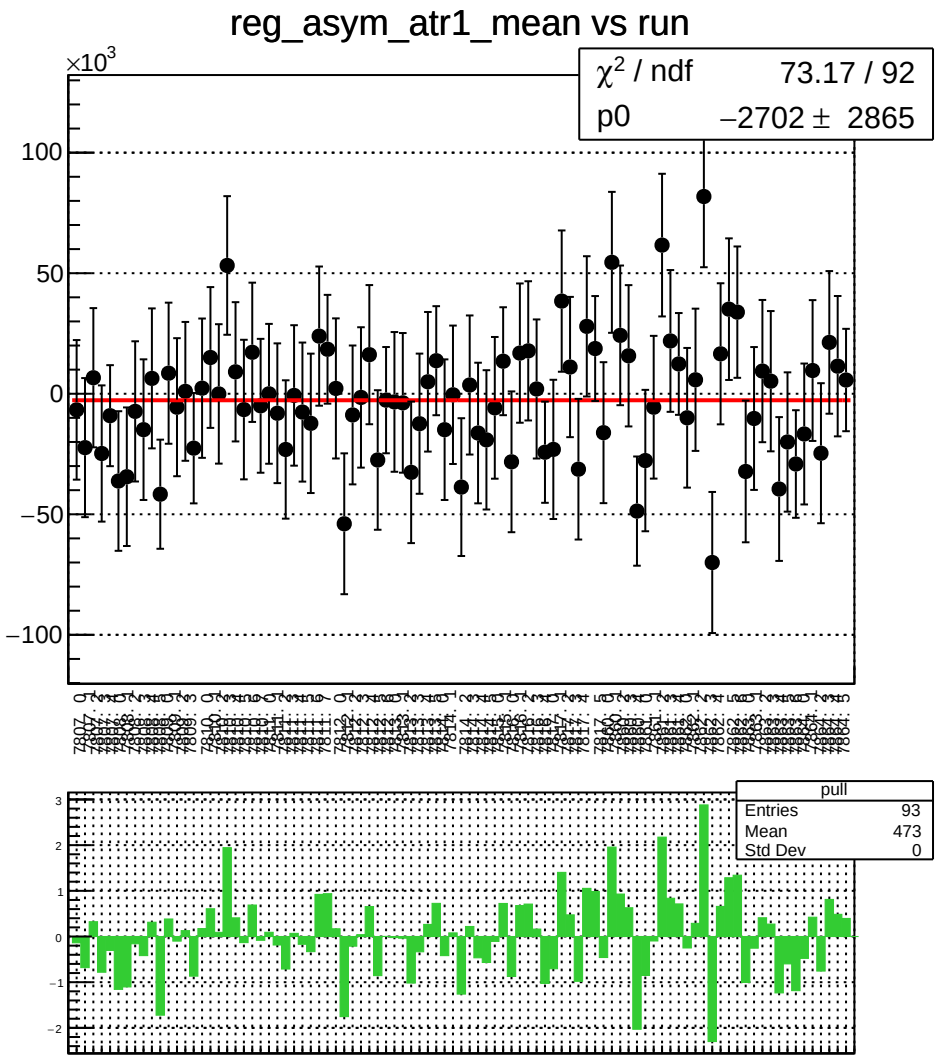

asym_atl2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.31 / 92
p0 0.2996 ± 0.4023
pull
Entries 93
Mean −383.1
Std Dev 0

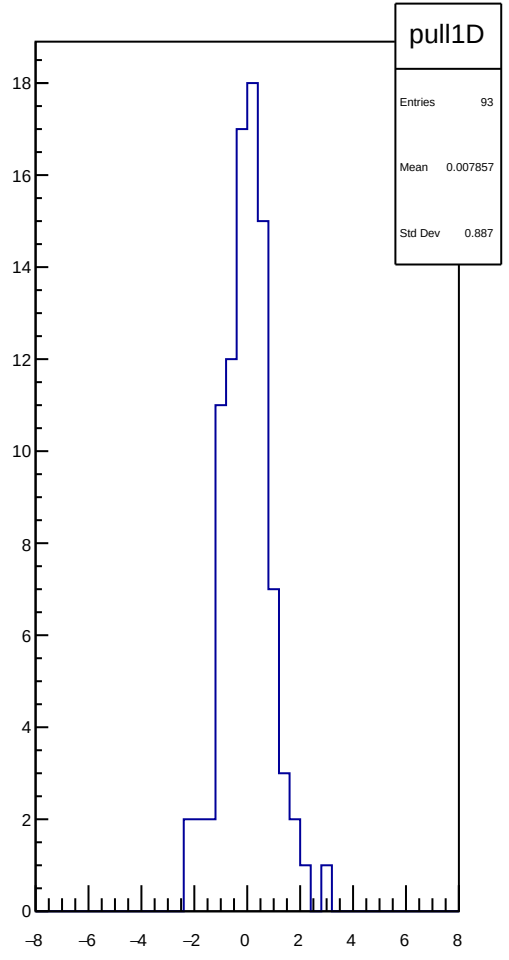

pull1D
Entries 93
Mean −0.004789
Std Dev 0.8999

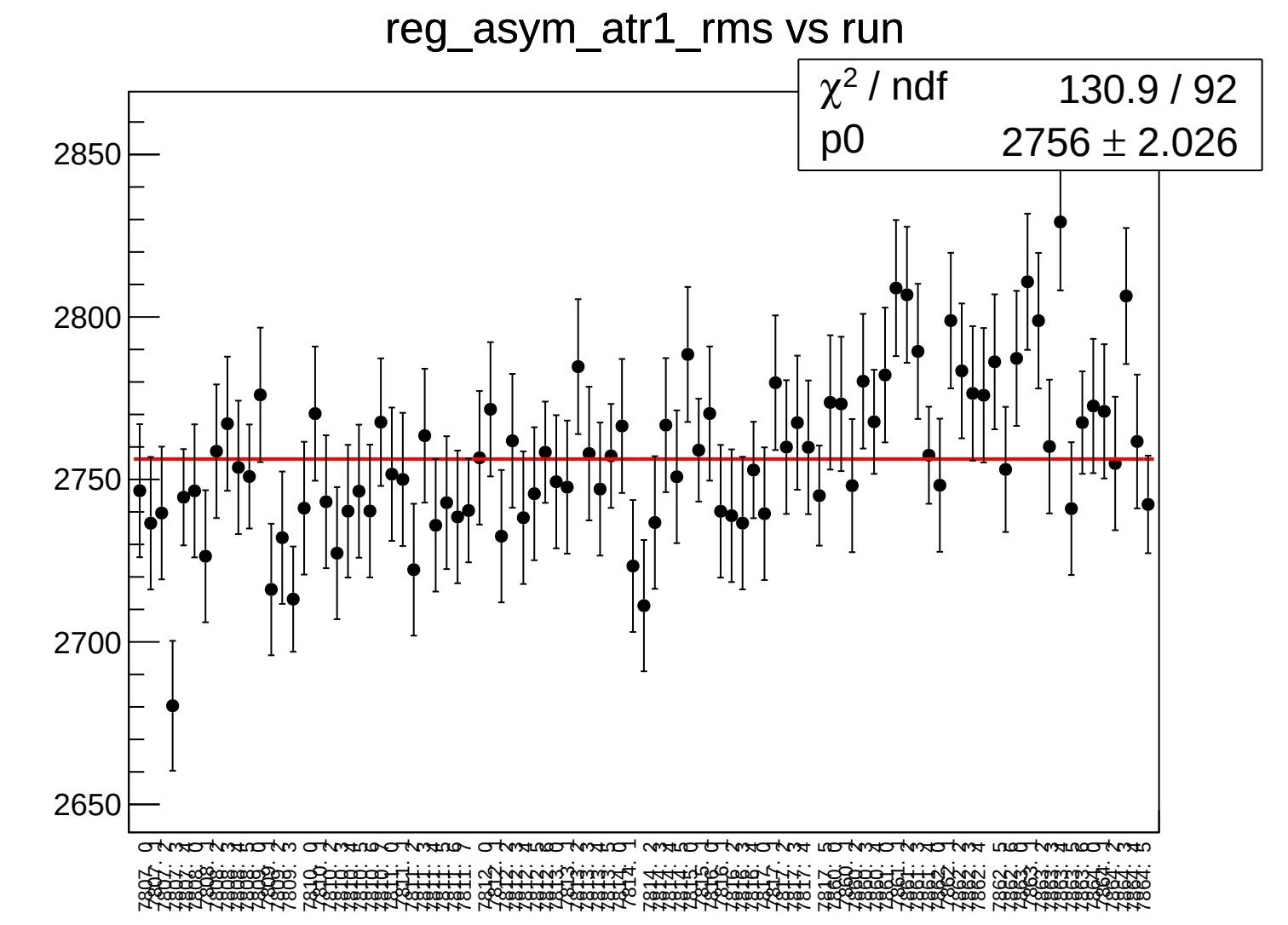

asym_atl2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.734e+04 / 92
p0 383.1 ± 0.2845
550
500
450
400
350
300

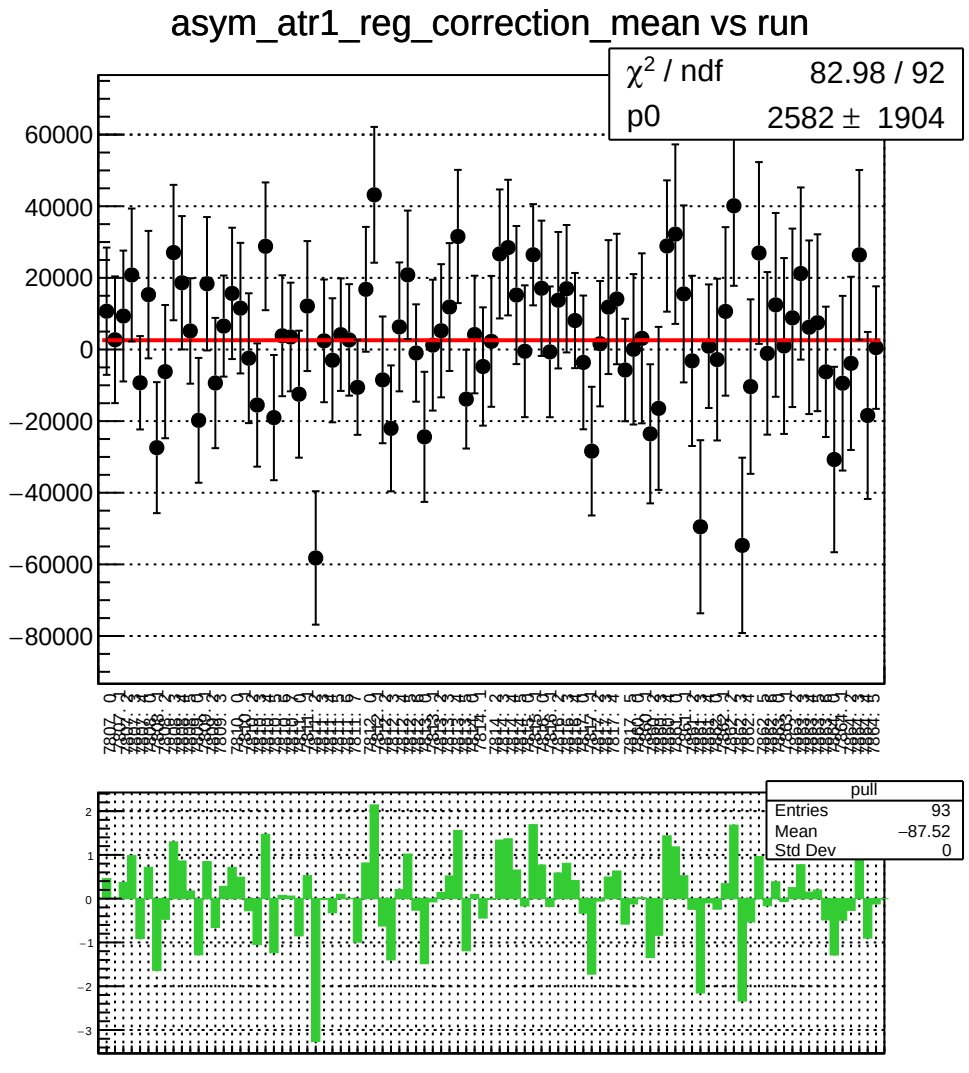

asym_atl2_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 85.08 / 92
p0 −1.336e−12 ± 1.173e−12
0.1
0.05
0
−0.05
−0.1
pull
Entries 93
Mean 46.34
Std Dev 31.52
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.1044
Std Dev 0.9508
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

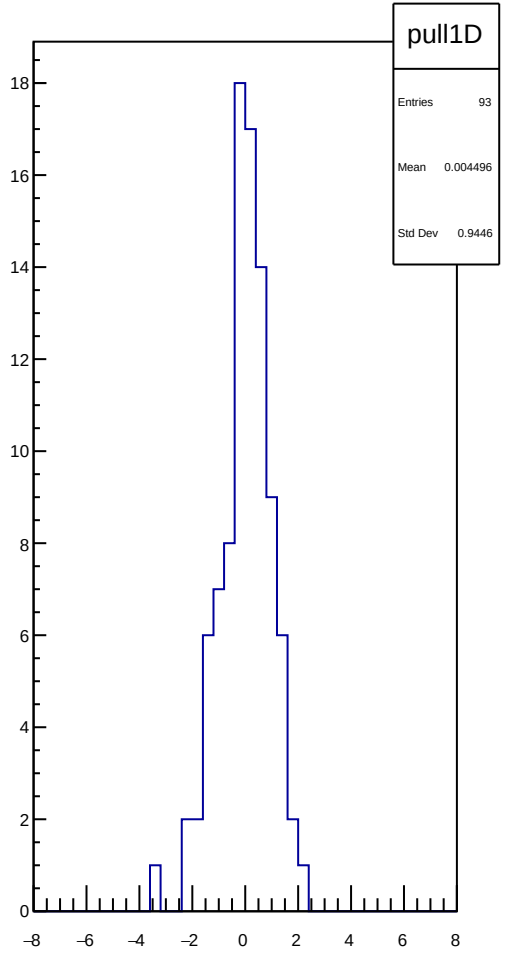

asym_atl2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.055e+05 / 92
p0 8.877e−10 ± 8.292e−13
6
5
4
3
2
1

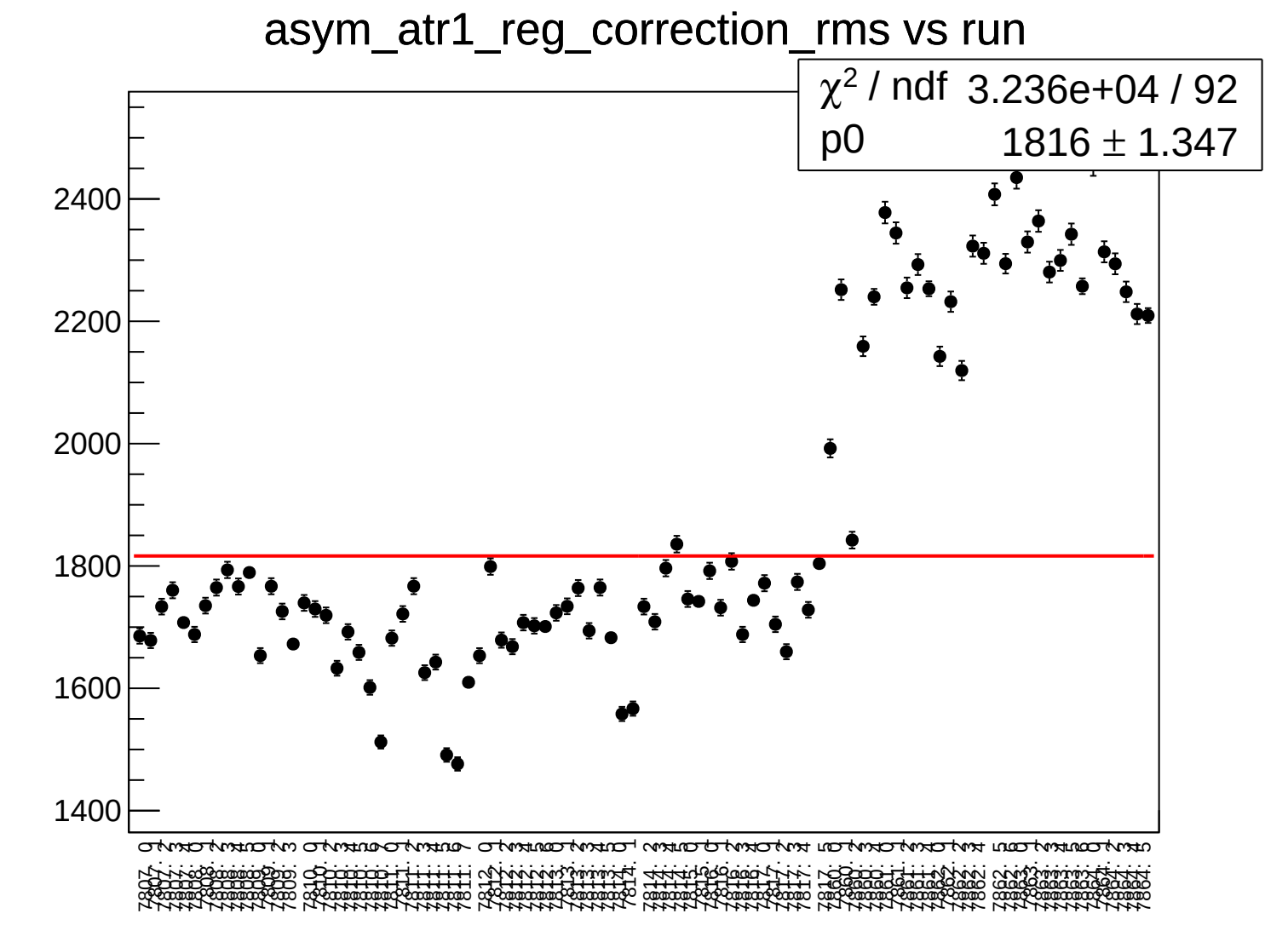

reg_asym_atr1_mean vs run
×10^3
χ^2 / ndf 73.17 / 92
p0 −2702 ± 2865
100
50
0
−50
−100
pull
Entries 93
Mean 473
Std Dev 0
3
2
1
0
−1
−2

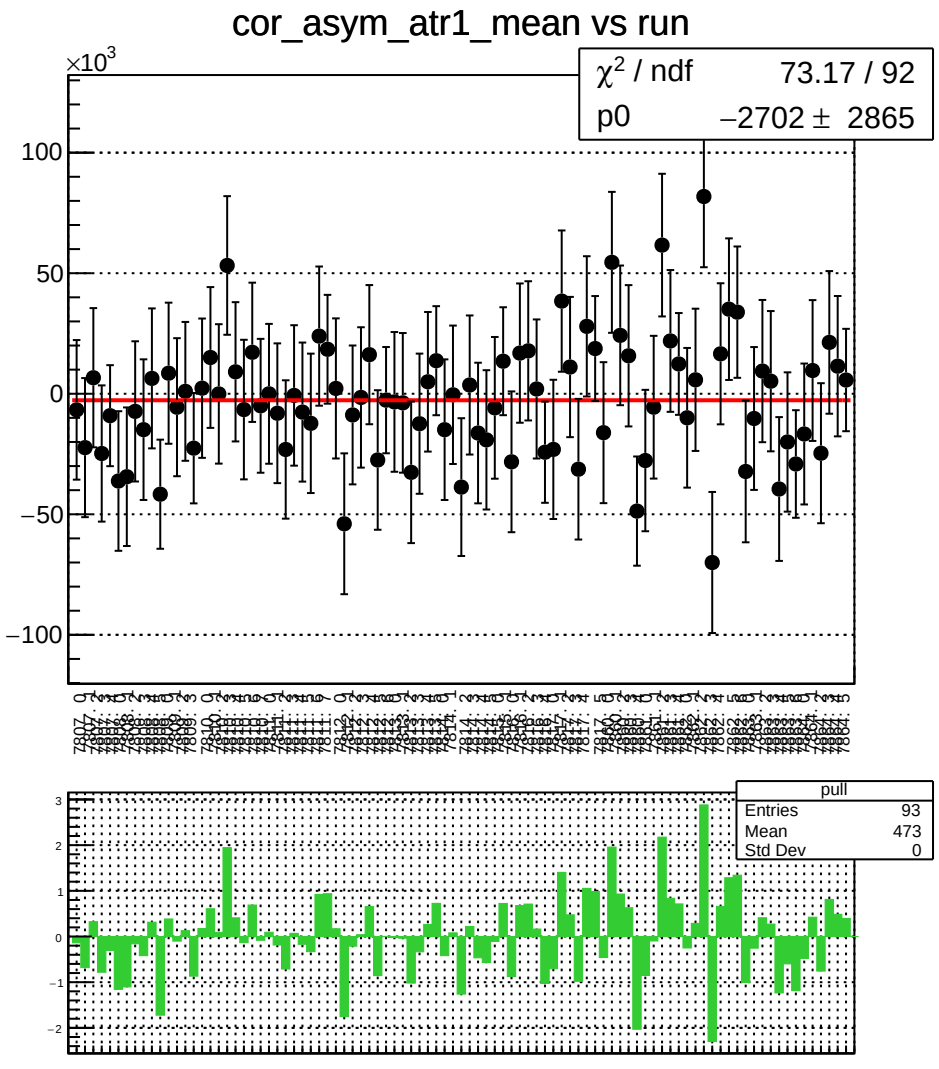

pull1D
Entries 93
Mean 0.007857
Std Dev 0.887
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

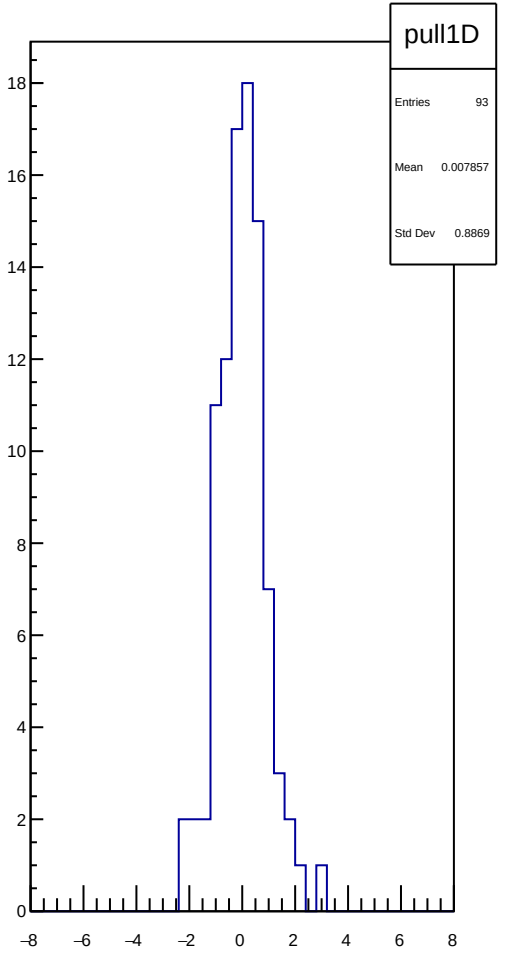

reg_asym_atr1_rms vs run
χ² / ndf 130.9 / 92
p0 2756 ± 2.026
2850
2800
2750
2700
2650

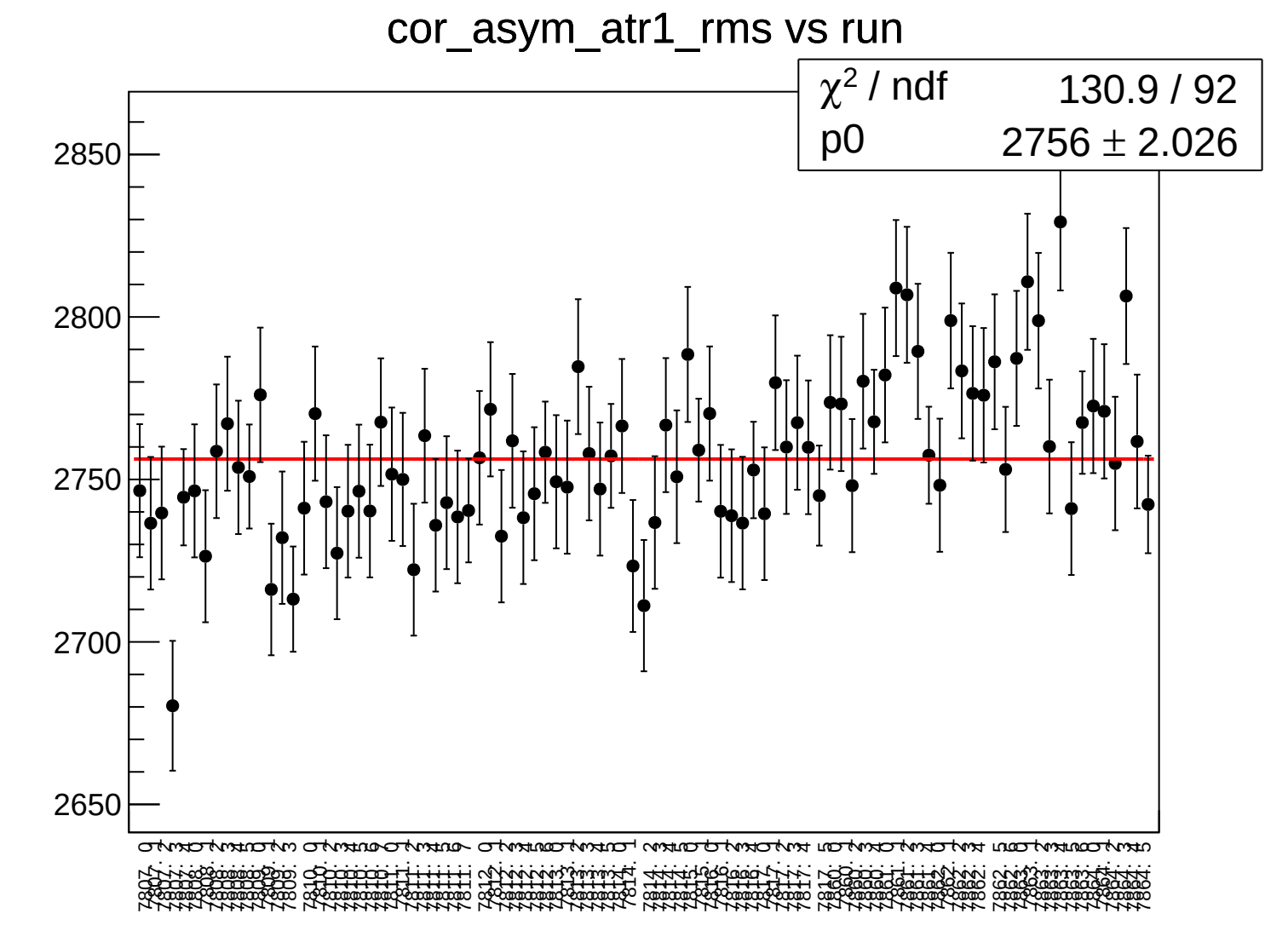

asym_atr1_reg_correction_mean vs run
χ² / ndf 82.98 / 92
p0 2582 ± 1904
pull
Entries 93
Mean −87.52
Std Dev 0

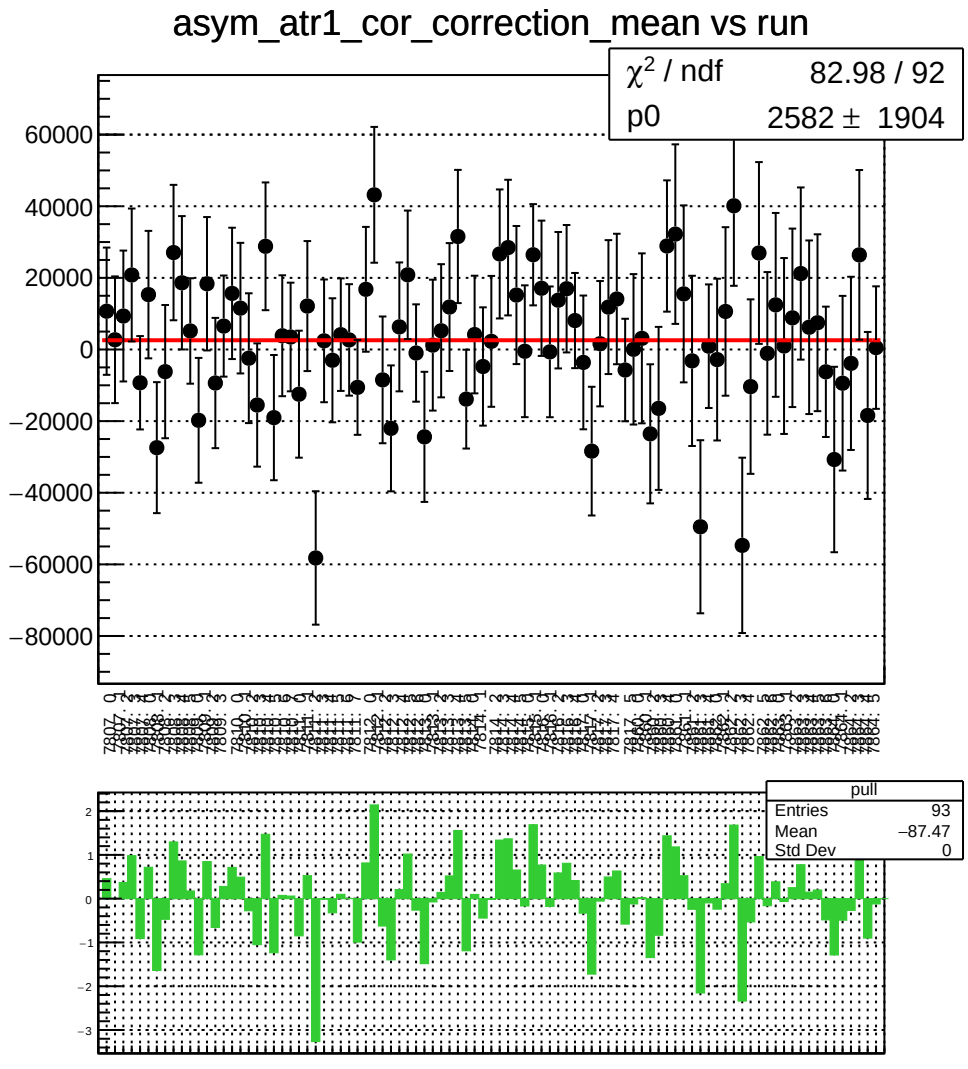

pull1D
Entries 93
Mean 0.004496
Std Dev 0.9446

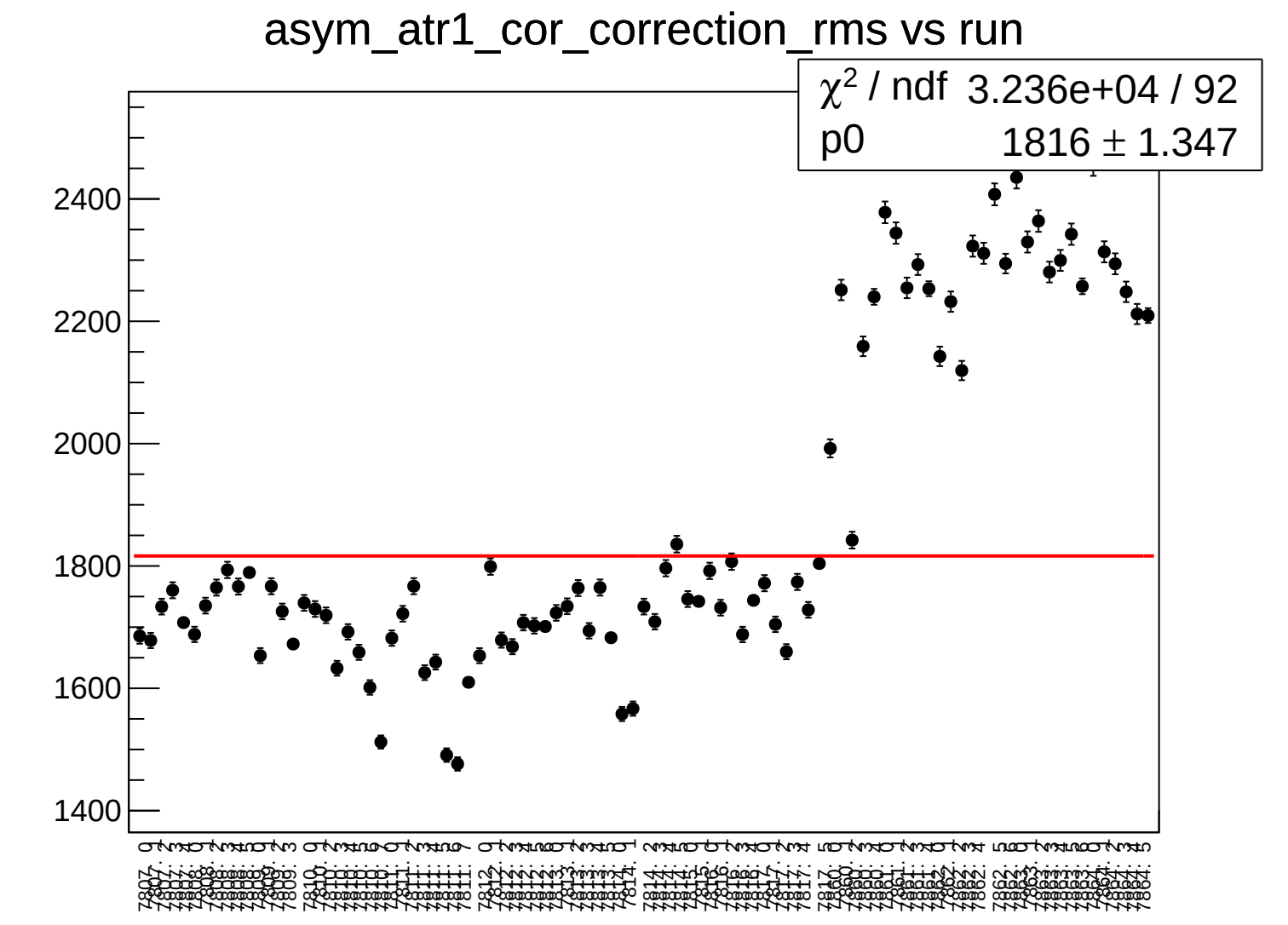

asym_atr1_reg_correction_rms vs run
χ² / ndf 3.236e+04 / 92
p0 1816 ± 1.347
2400
2200
2000
1800
1600
1400

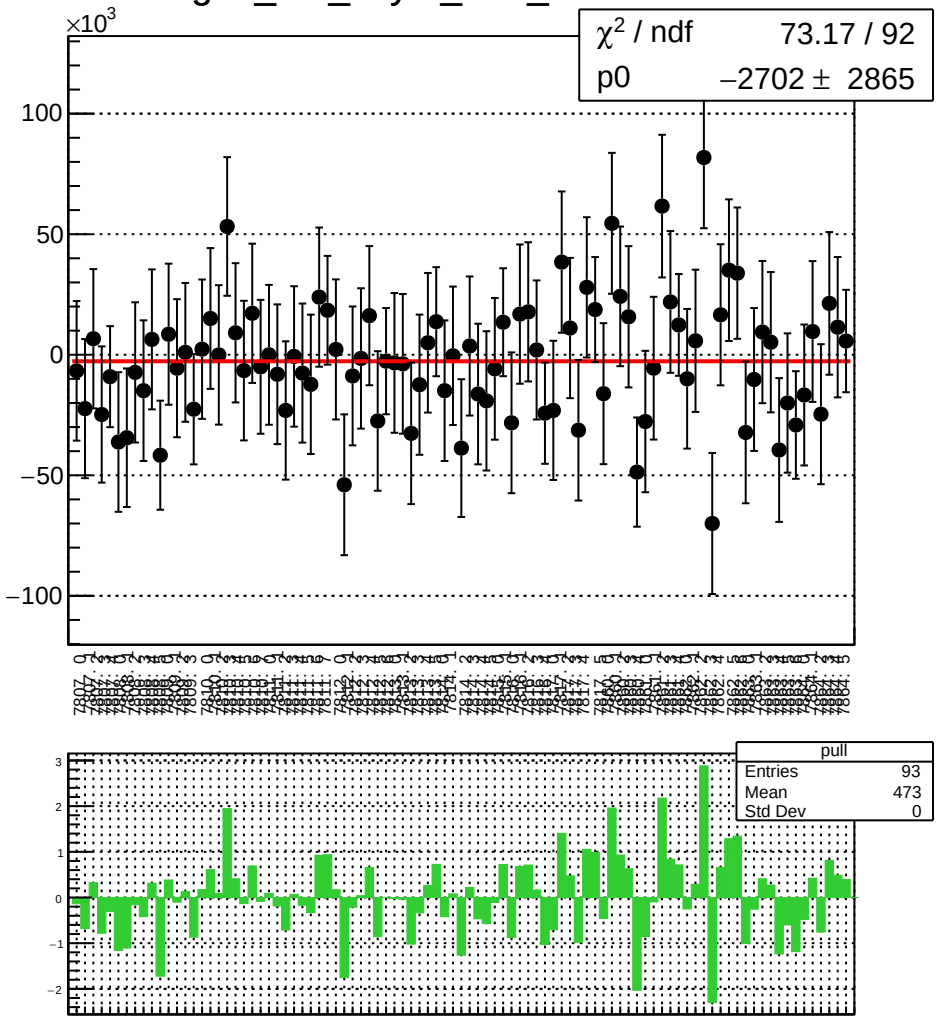

cor_asym_atr1_mean vs run
×10^3
χ^2 / ndf 73.17 / 92
p0 −2702 ± 2865
100
50
0
−50
−100
pull
Entries 93
Mean 473
Std Dev 0
3
2
1
0
−1
−2

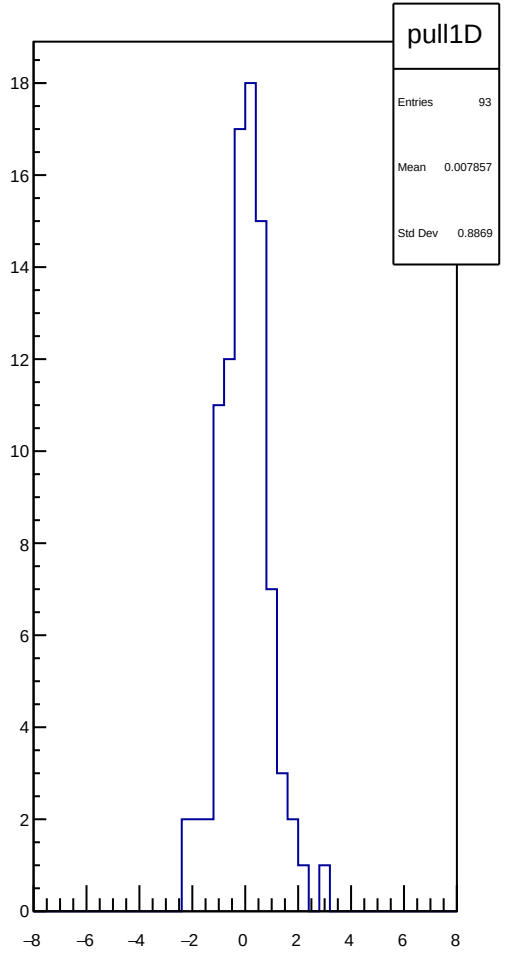

pull1D
Entries 93
Mean 0.007857
Std Dev 0.8869
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

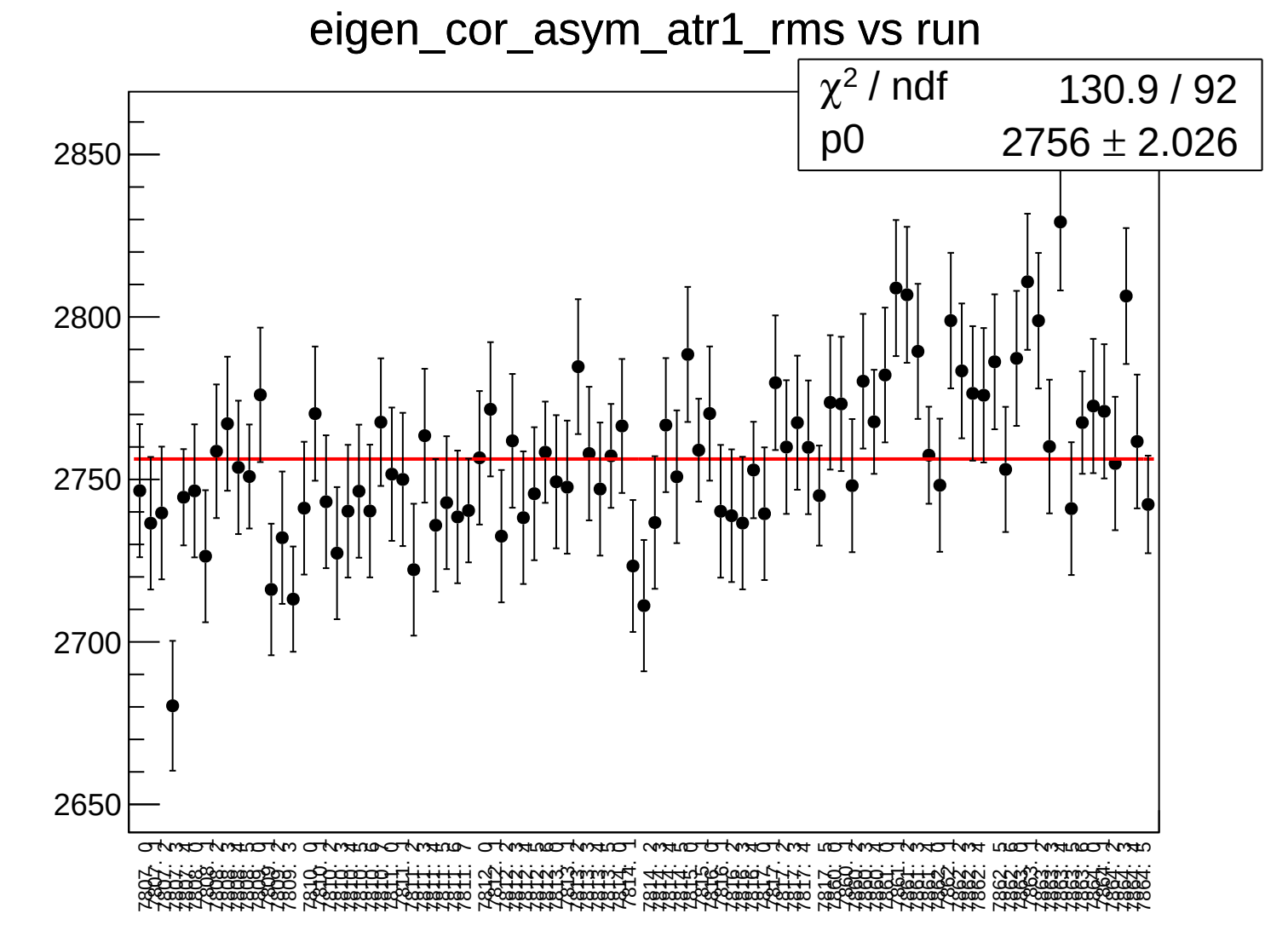

cor_asym_atr1_rms vs run
χ² / ndf 130.9 / 92
p0 2756 ± 2.026
2850
2800
2750
2700
2650

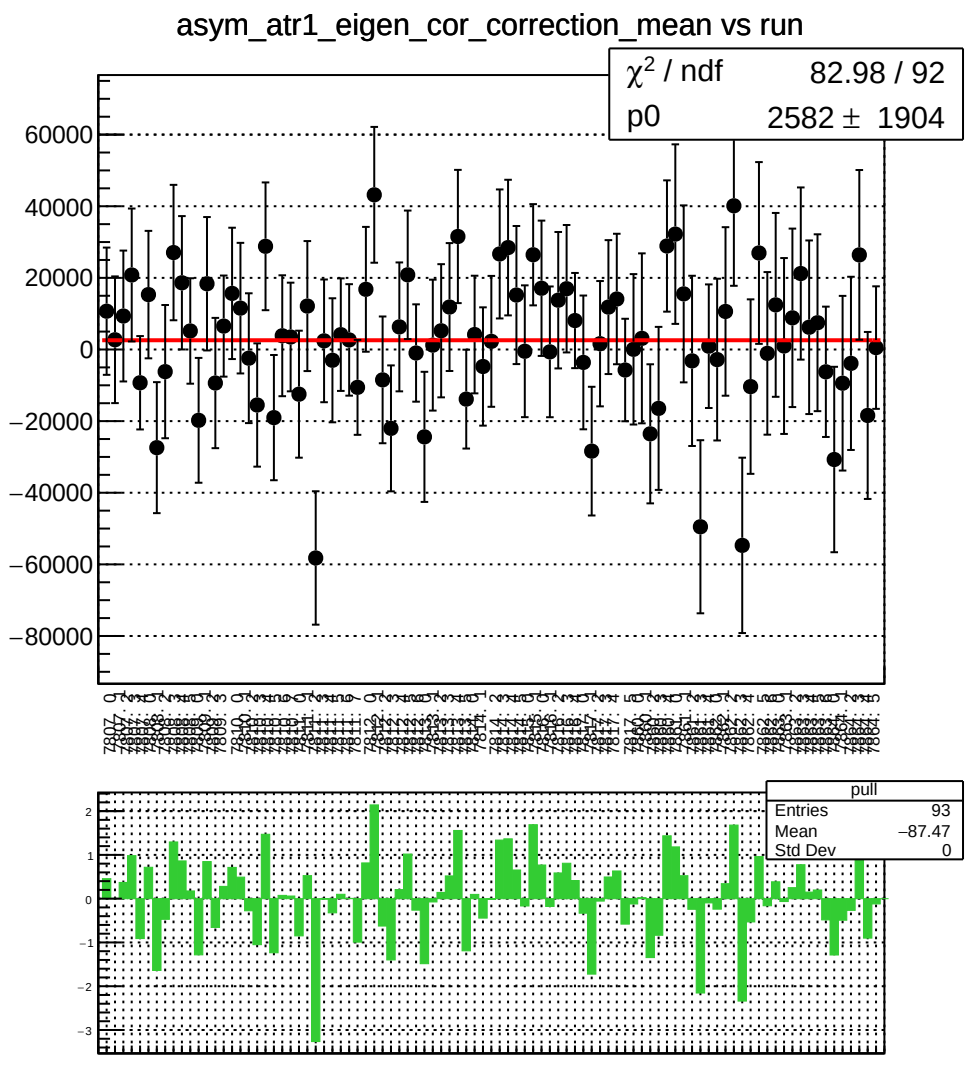

asym_atr1_cor_correction_mean vs run
χ² / ndf 82.98 / 92
p0 2582 ± 1904
pull
Entries 93
Mean −87.47
Std Dev 0
pull1D
Entries 93
Mean 0.004497
Std Dev 0.9446

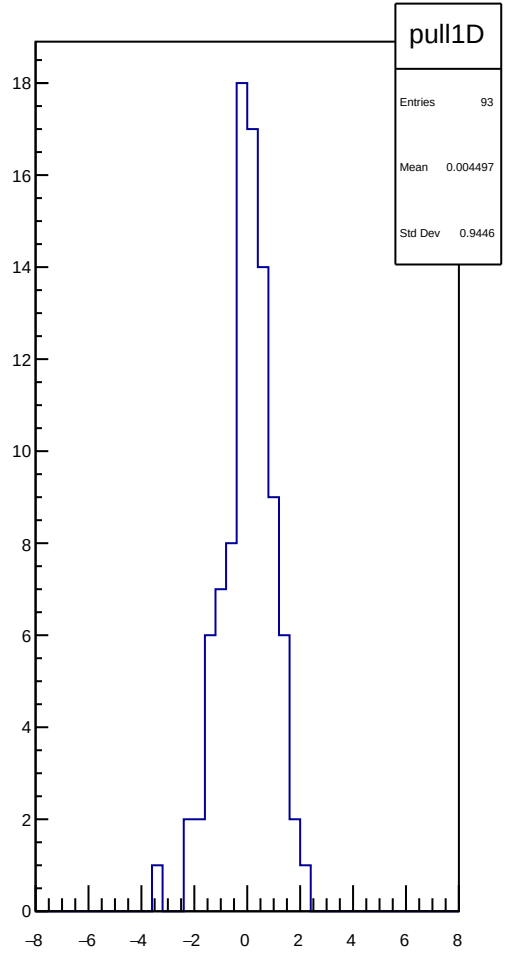

asym_atr1_cor_correction_rms vs run
χ² / ndf 3.236e+04 / 92
p0 1816 ± 1.347
2400
2200
2000
1800
1600
1400

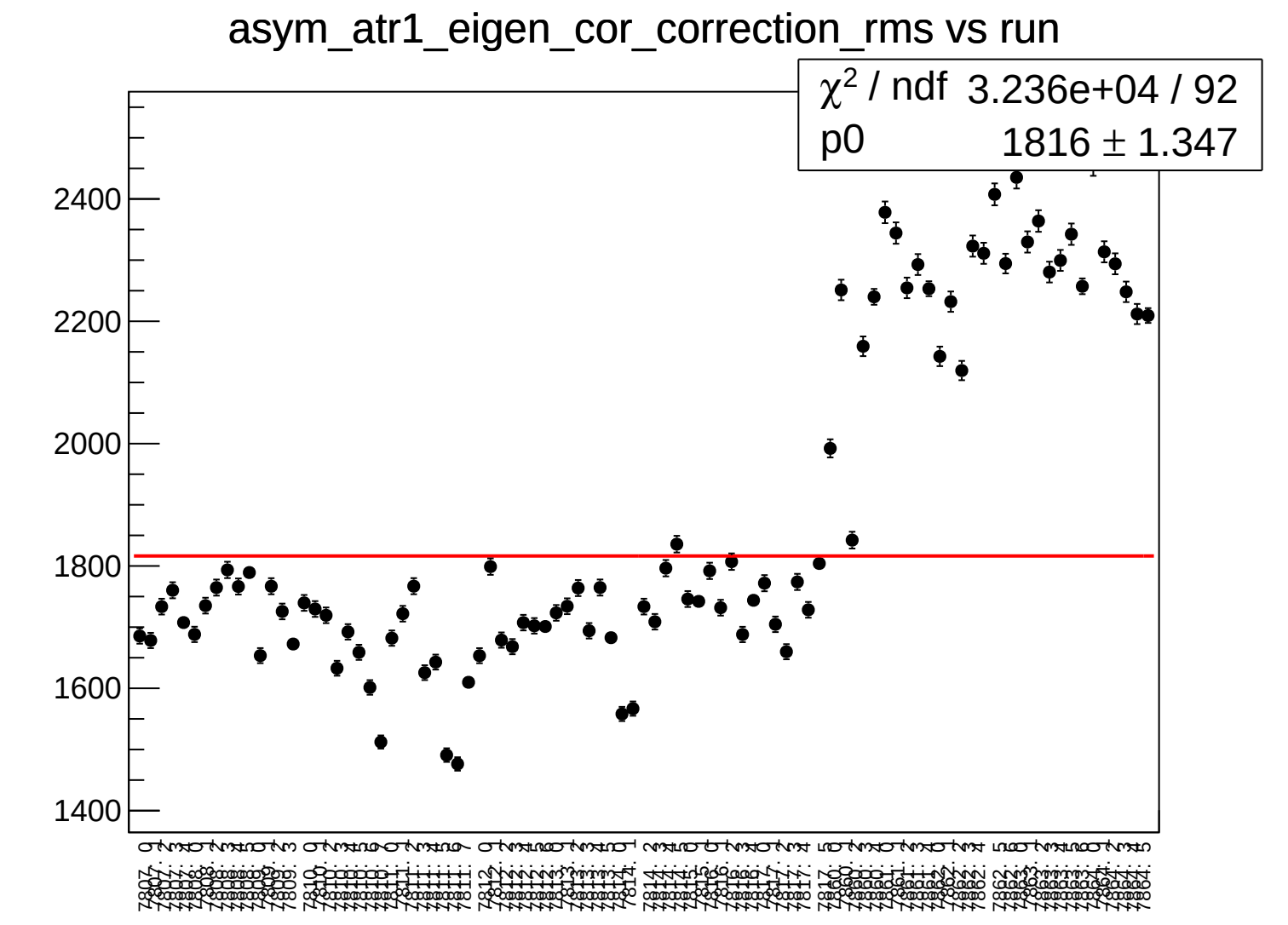

eigen_cor_asym_atr1_mean vs run
×10^3
χ² / ndf 73.17 / 92
p0 −2702 ± 2865
100
50
0
−50
−100
pull
Entries 93
Mean 473
Std Dev 0
3
2
1
0
−1
−2

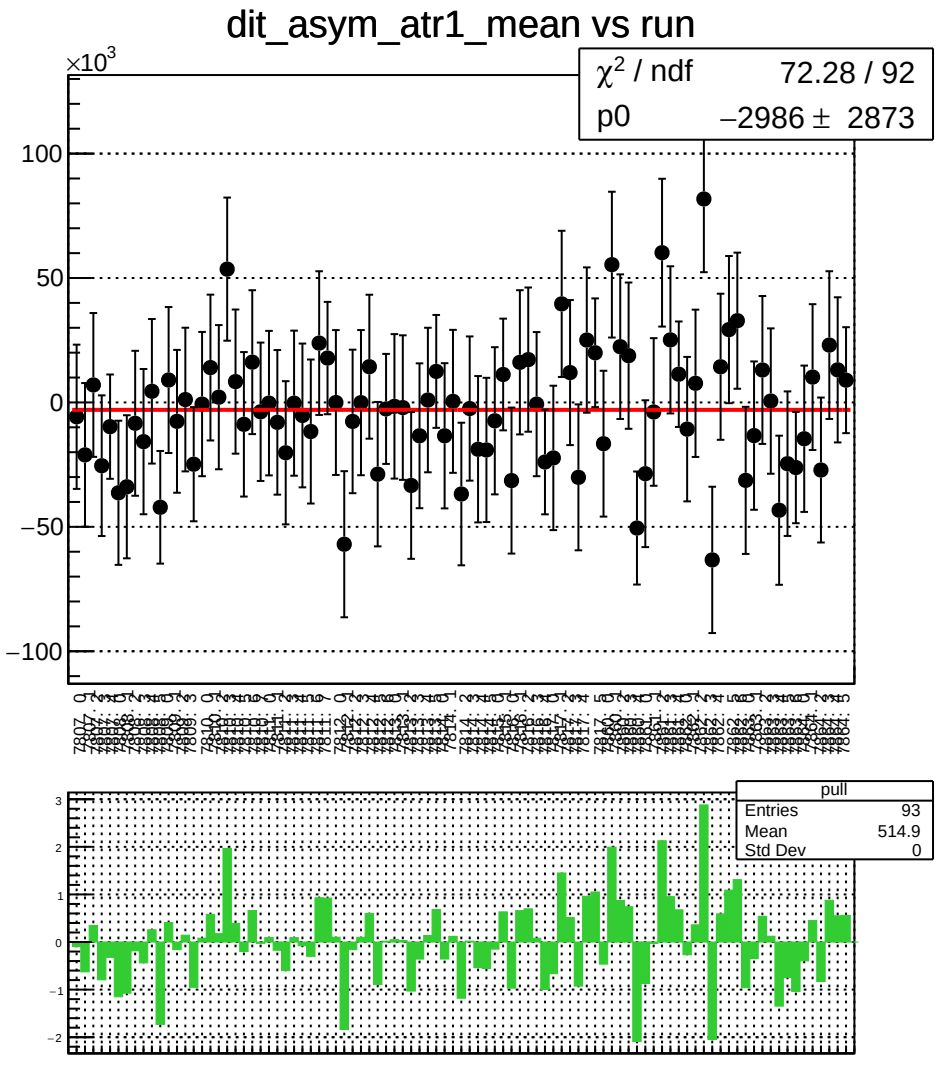

pull1D
Entries 93
Mean 0.007857
Std Dev 0.8869
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

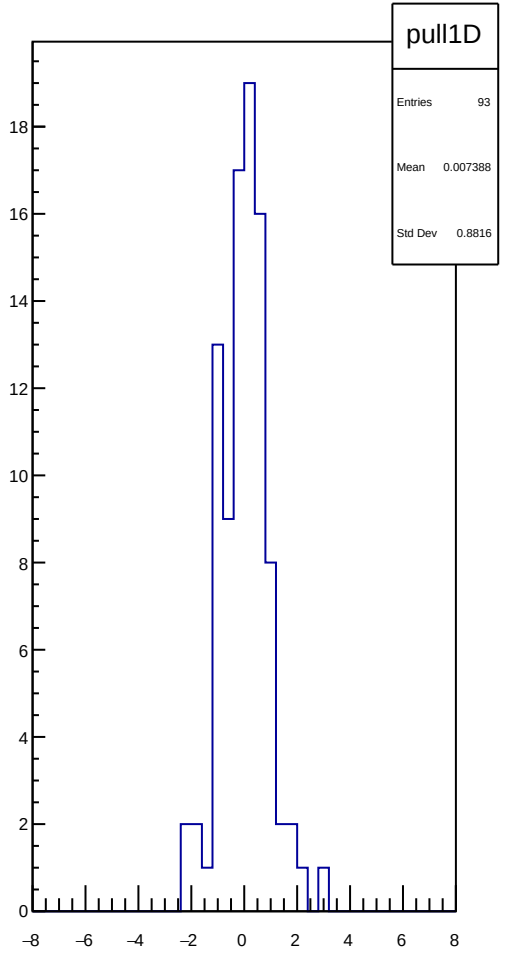

eigen_cor_asym_atr1_rms vs run
χ² / ndf 130.9 / 92
p0 2756 ± 2.026
2850
2800
2750
2700
2650

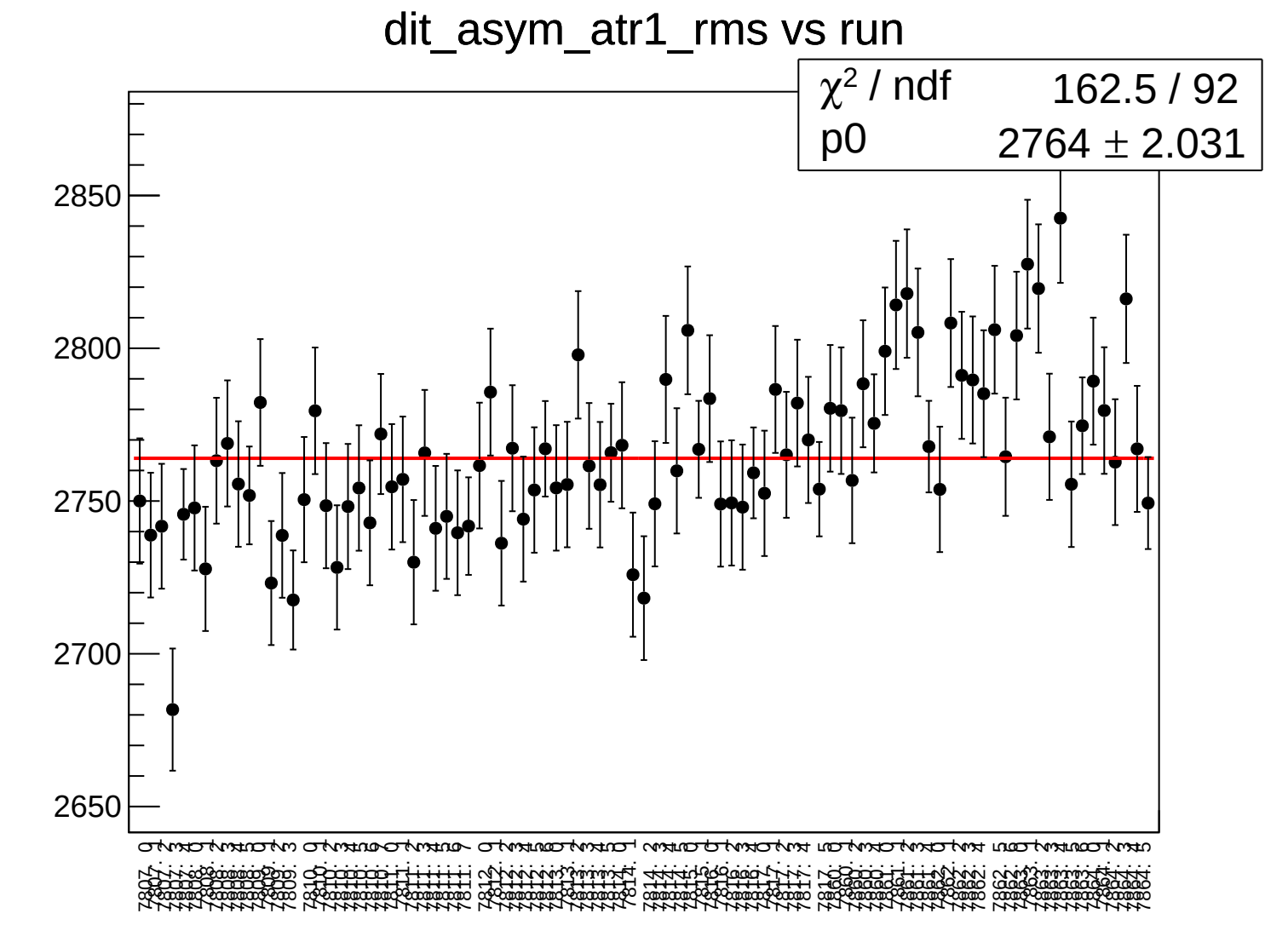

asym_atr1_eigen_cor_correction_mean vs run
χ² / ndf 82.98 / 92
p0 2582 ± 1904
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean −87.47
Std Dev 0
2
1
0
−1
−2
−3

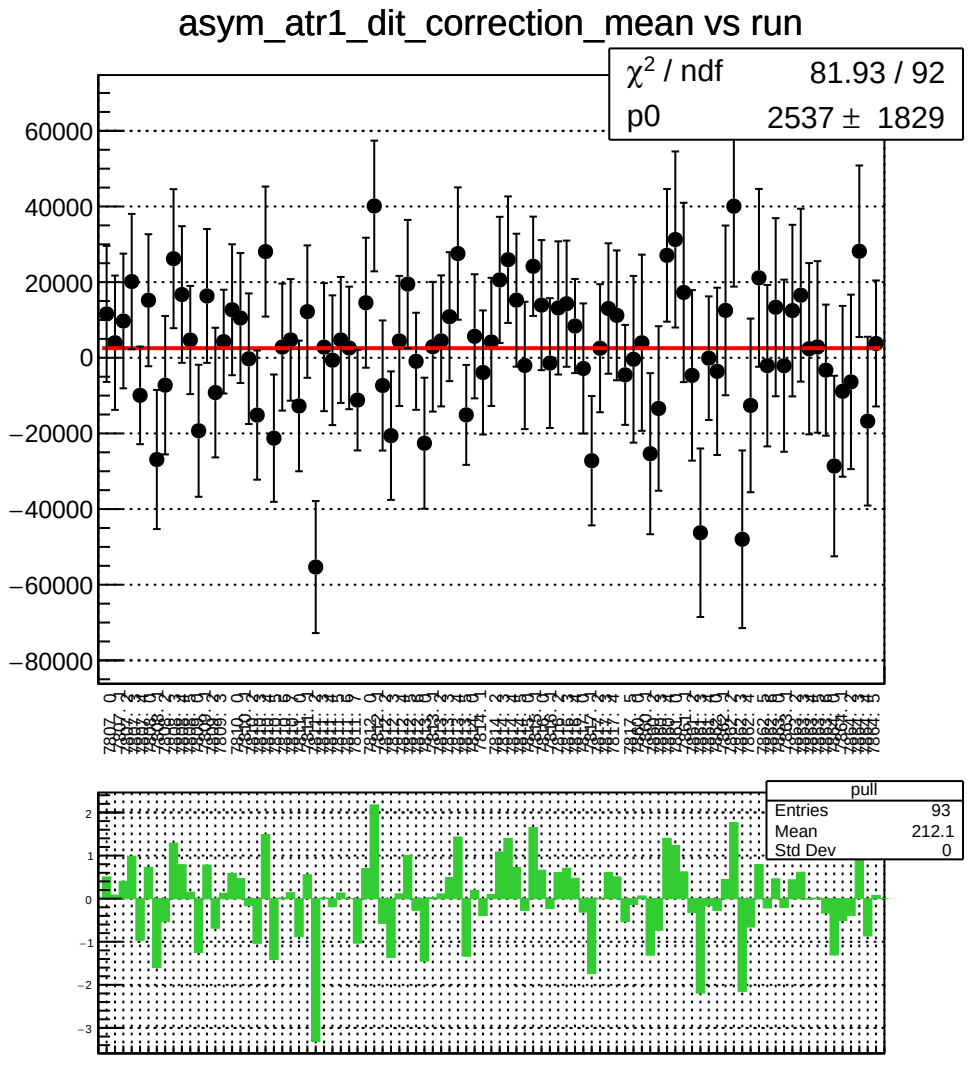

pull1D
Entries 93
Mean 0.004497
Std Dev 0.9446
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

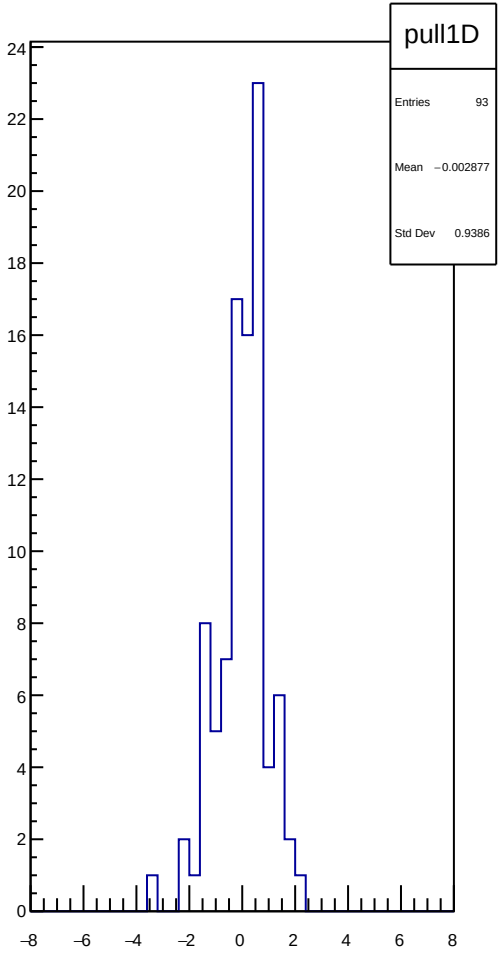

asym_atr1_eigen_cor_correction_rms vs run
χ² / ndf 3.236e+04 / 92
p0 1816 ± 1.347
2400
2200
2000
1800
1600
1400

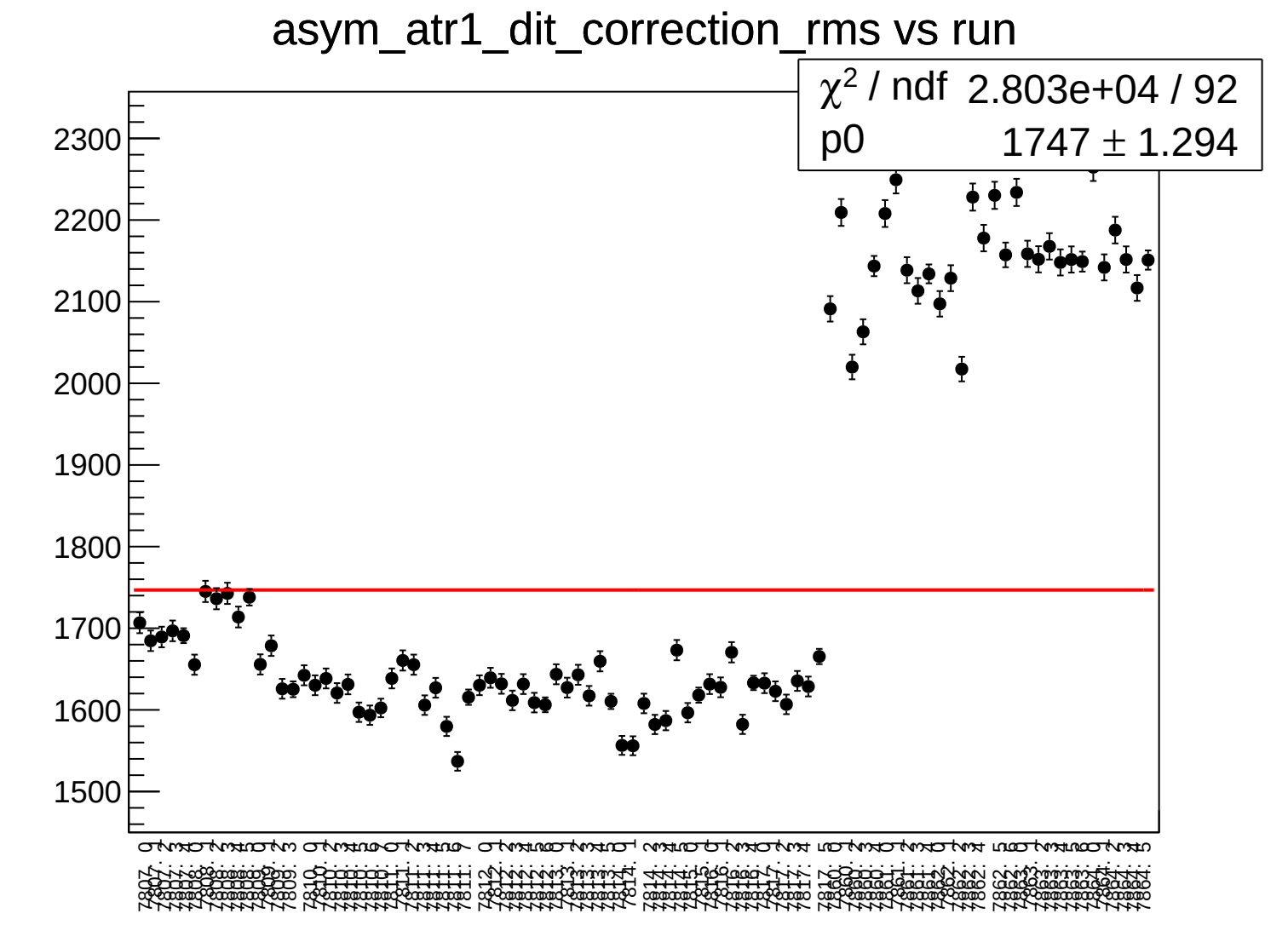

dit_asym_atr1_mean vs run
χ² / ndf 72.28 / 92
p0 −2986 ± 2873
×10³
100
50
0
−50
−100
pull
Entries 93
Mean 514.9
Std Dev 0
3
2
1
0
−1
−2

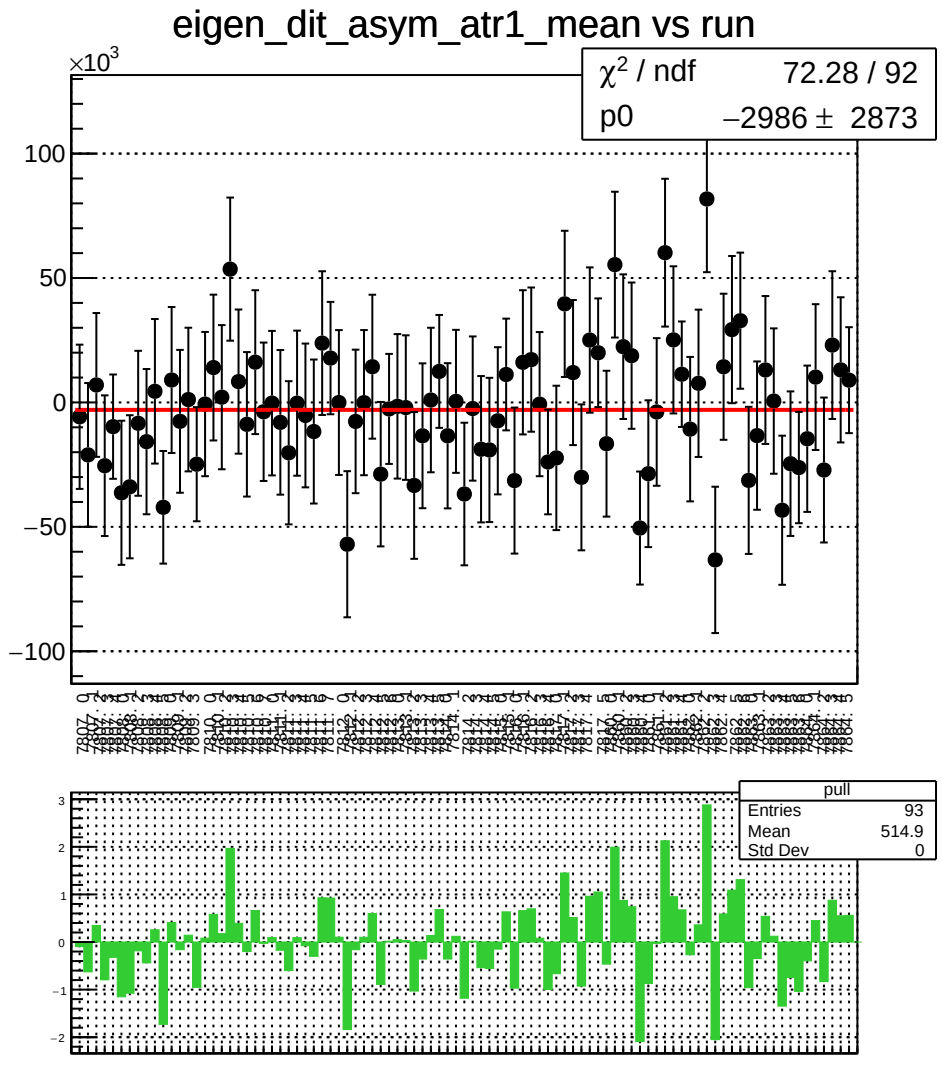

pull1D
Entries 93
Mean 0.007388
Std Dev 0.8816
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

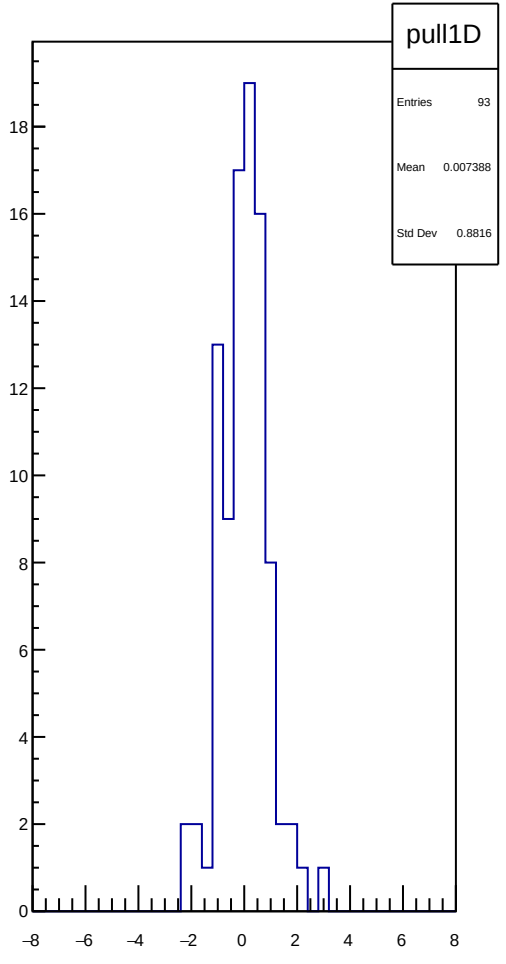

dit_asym_atr1_rms vs run
χ² / ndf 162.5 / 92
p0 2764 ± 2.031
2850
2800
2750
2700
2650

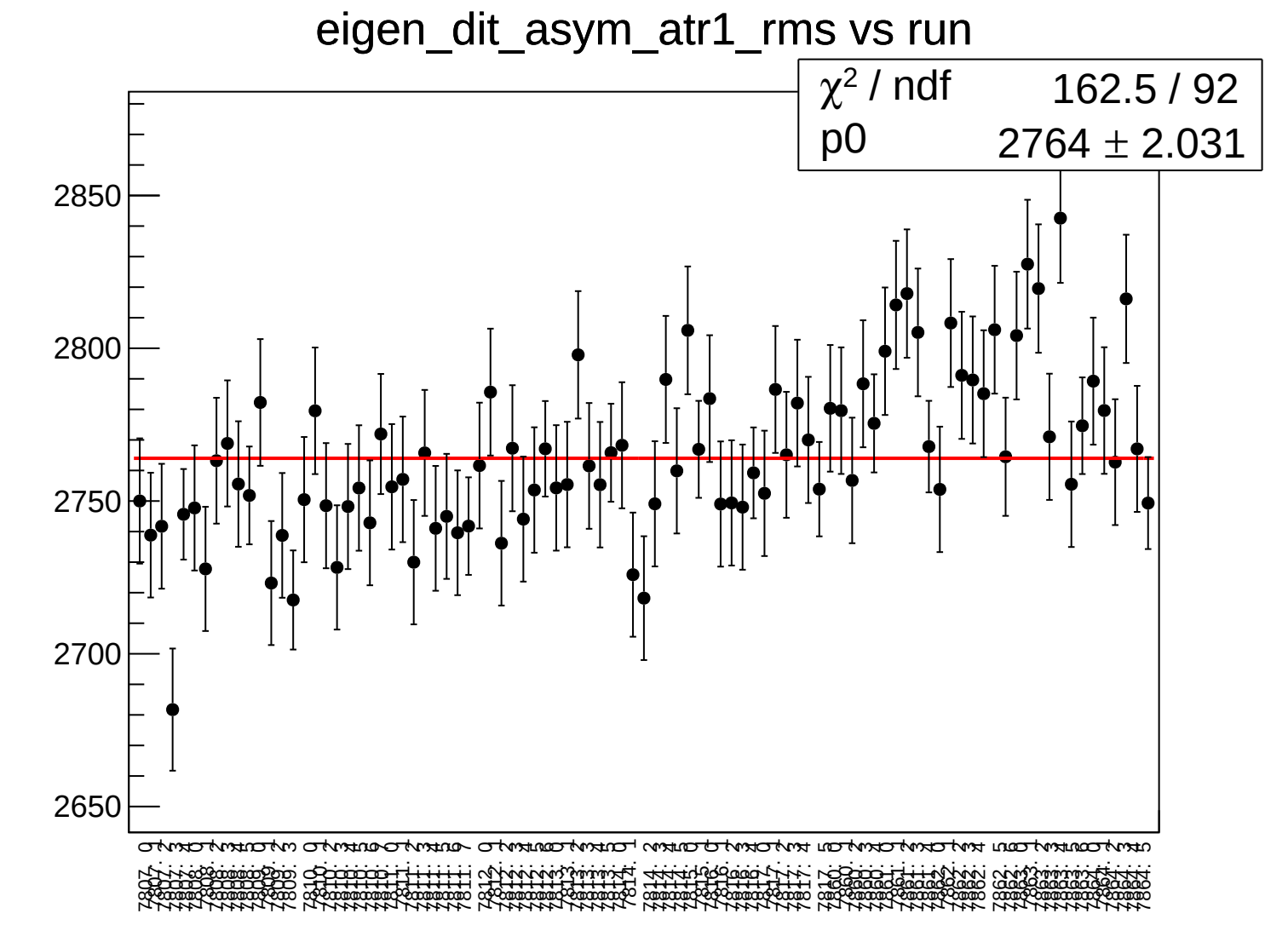

asym_atr1_dit_correction_mean vs run
χ² / ndf 81.93 / 92
p0 2537 ± 1829
pull
Entries 93
Mean 212.1
Std Dev 0

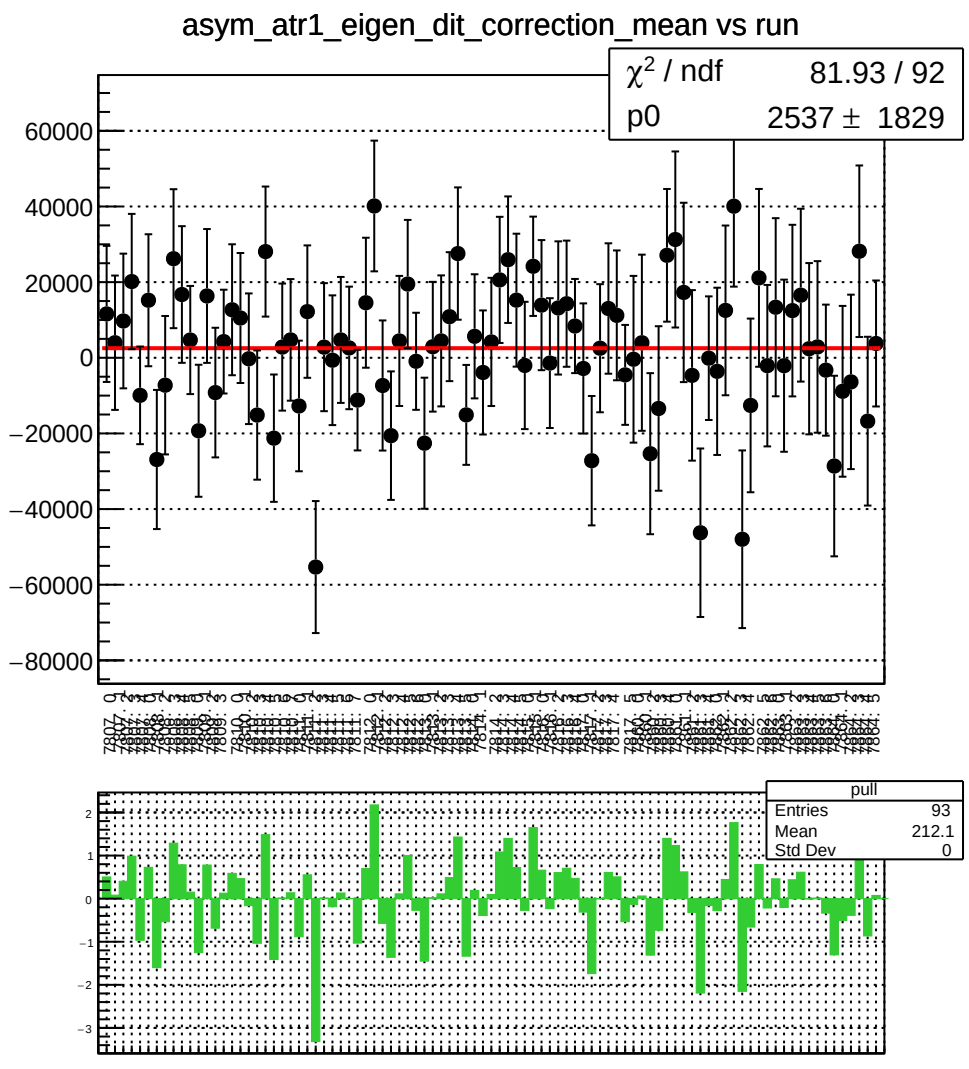

pull1D
Entries 93
Mean −0.002877
Std Dev 0.9386

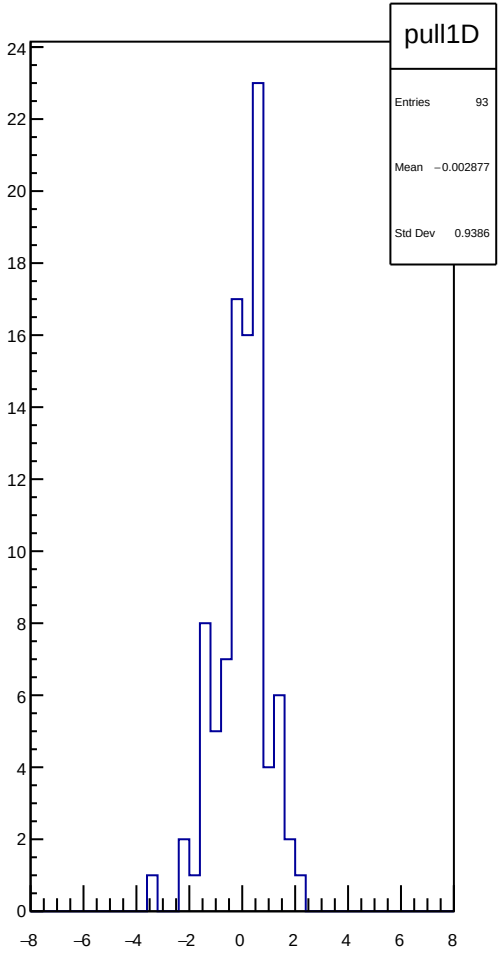

asym_atr1_dit_correction_rms vs run
χ² / ndf 2.803e+04 / 92
p0 1747 ± 1.294
2300
2200
2100
2000
1900
1800
1700
1600
1500

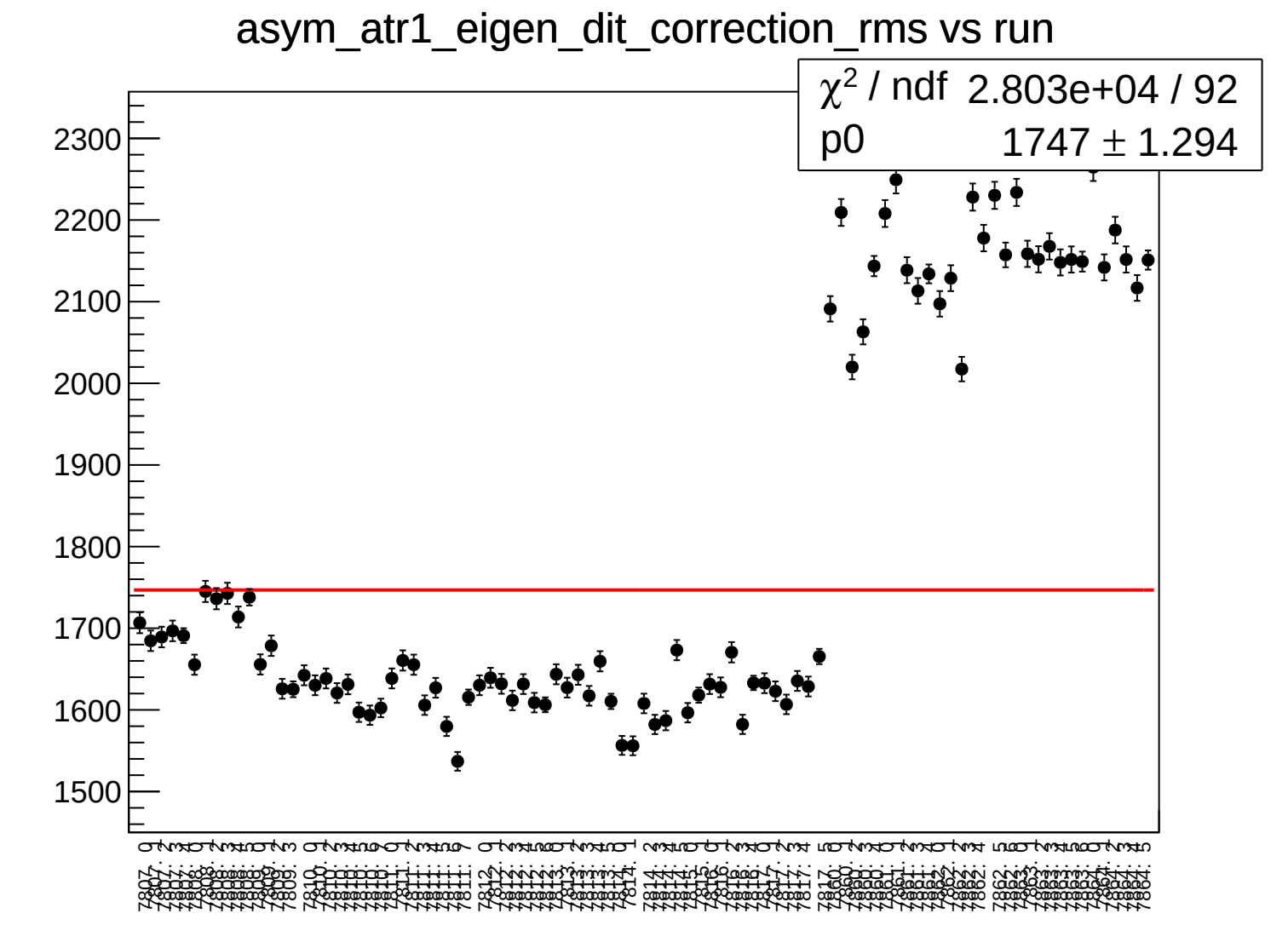

eigen_dit_asym_atr1_mean vs run
×10^3
χ² / ndf 72.28 / 92
p0 −2986 ± 2873
100
50
0
−50
−100
pull
Entries 93
Mean 514.9
Std Dev 0
3
2
1
0
−1
−2

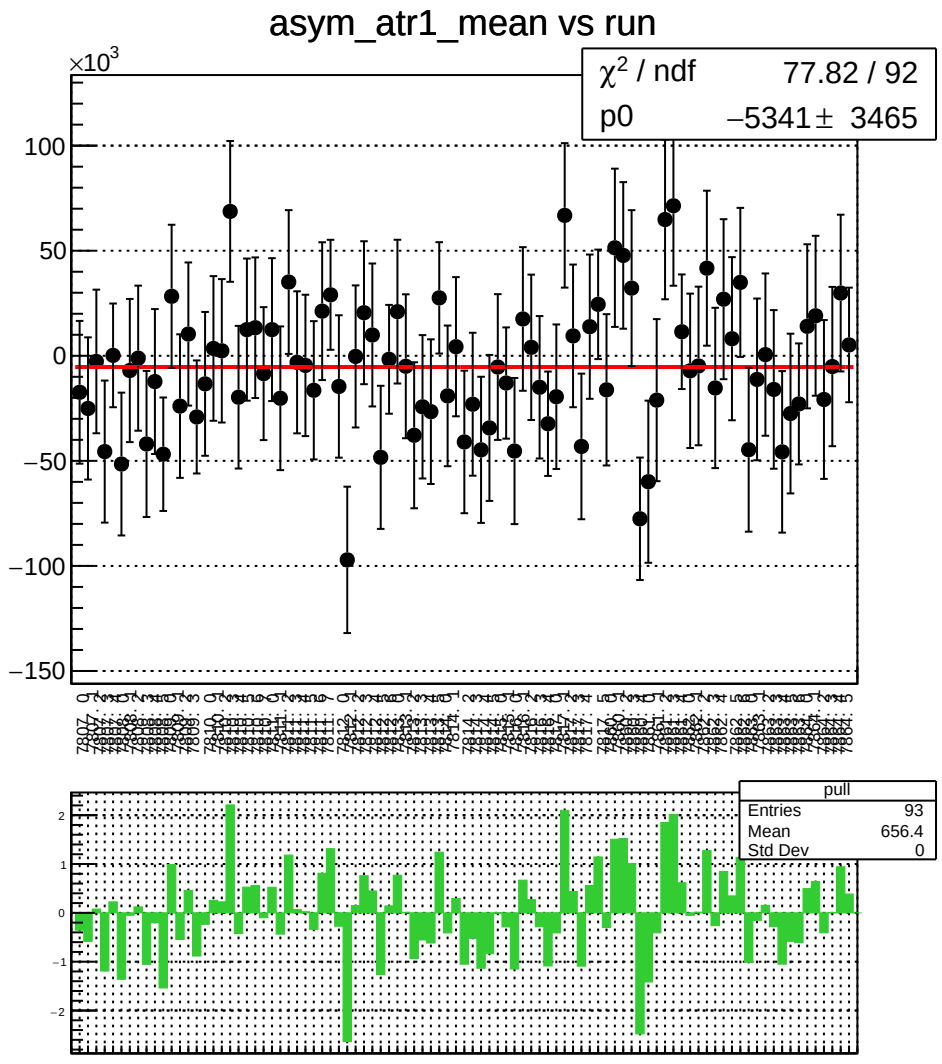

pull1D
Entries 93
Mean 0.007388
Std Dev 0.8816
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

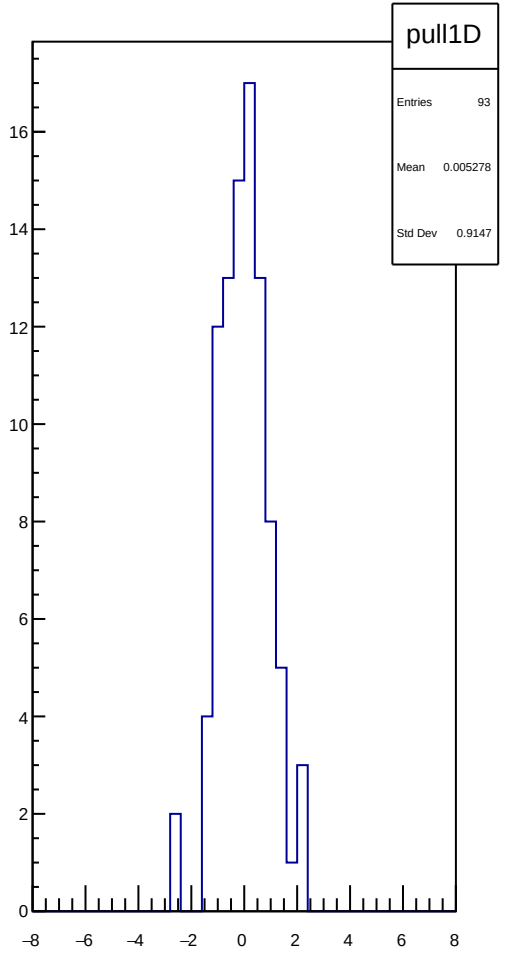

eigen_dit_asym_atr1_rms vs run
χ² / ndf 162.5 / 92
p0 2764 ± 2.031
2850
2800
2750
2700
2650

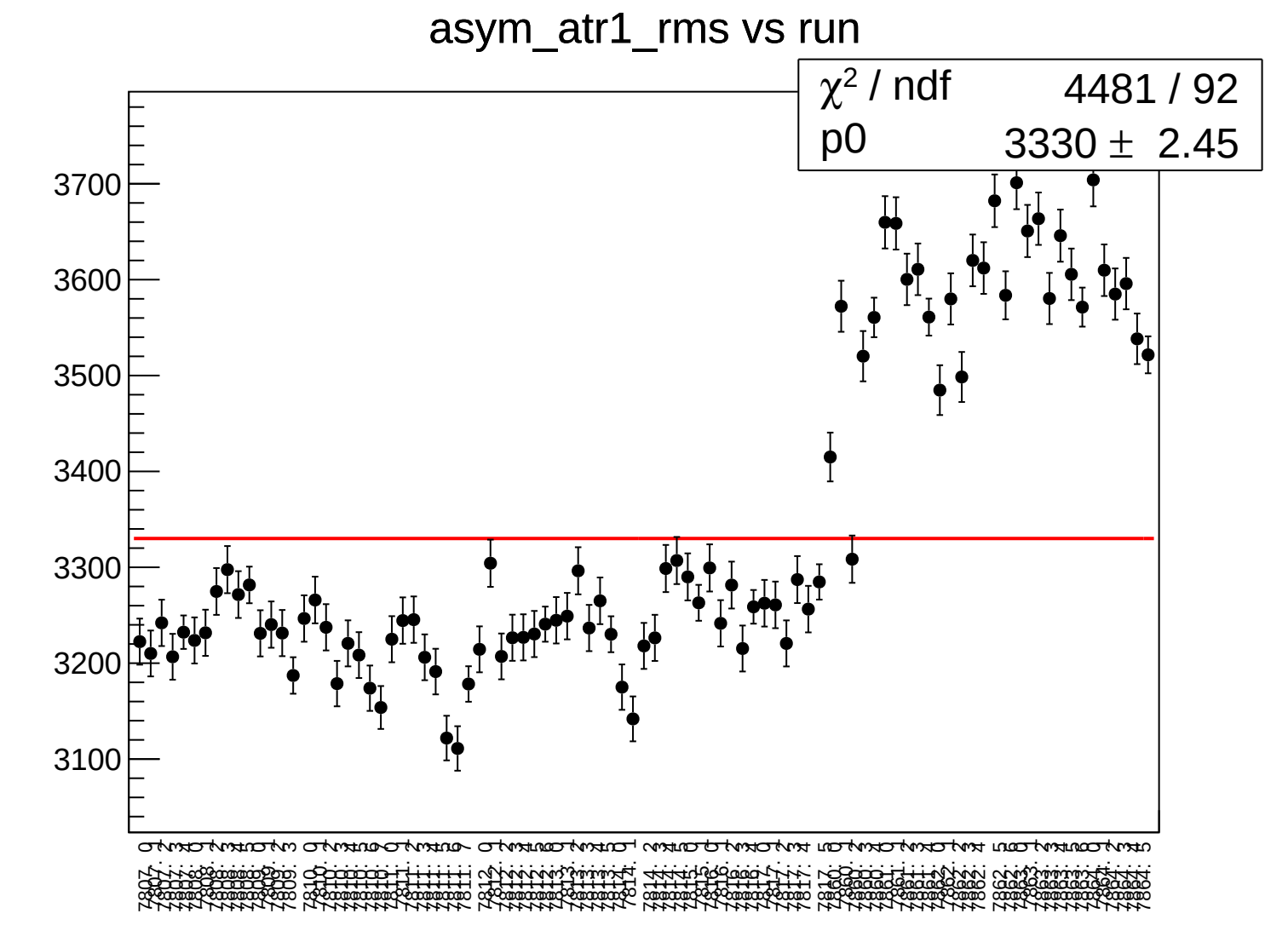

asym_atr1_eigen_dit_correction_mean vs run
χ² / ndf 81.93 / 92
p0 2537 ± 1829
pull
Entries 93
Mean 212.1
Std Dev 0

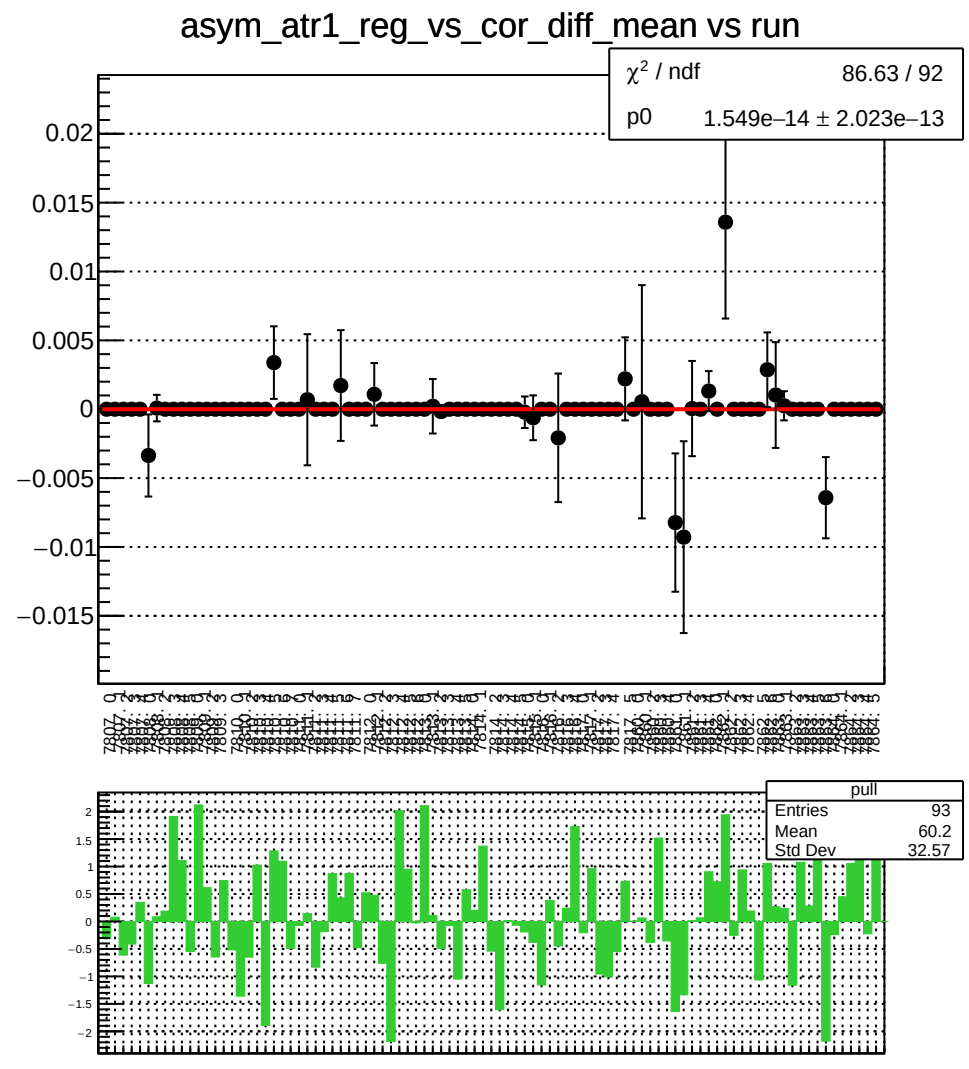

pull1D
Entries 93
Mean −0.002877
Std Dev 0.9386

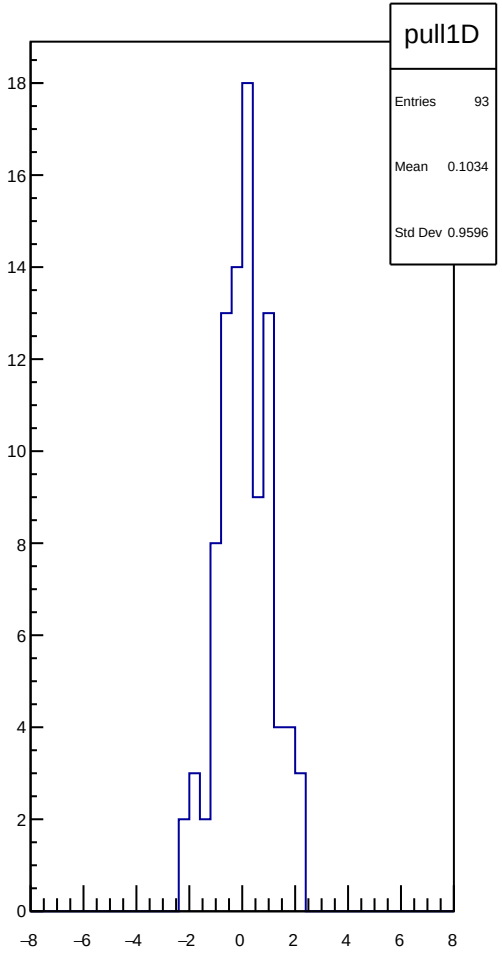

asym_atr1_eigen_dit_correction_rms vs run
χ² / ndf 2.803e+04 / 92
p0 1747 ± 1.294
2300
2200
2100
2000
1900
1800
1700
1600
1500

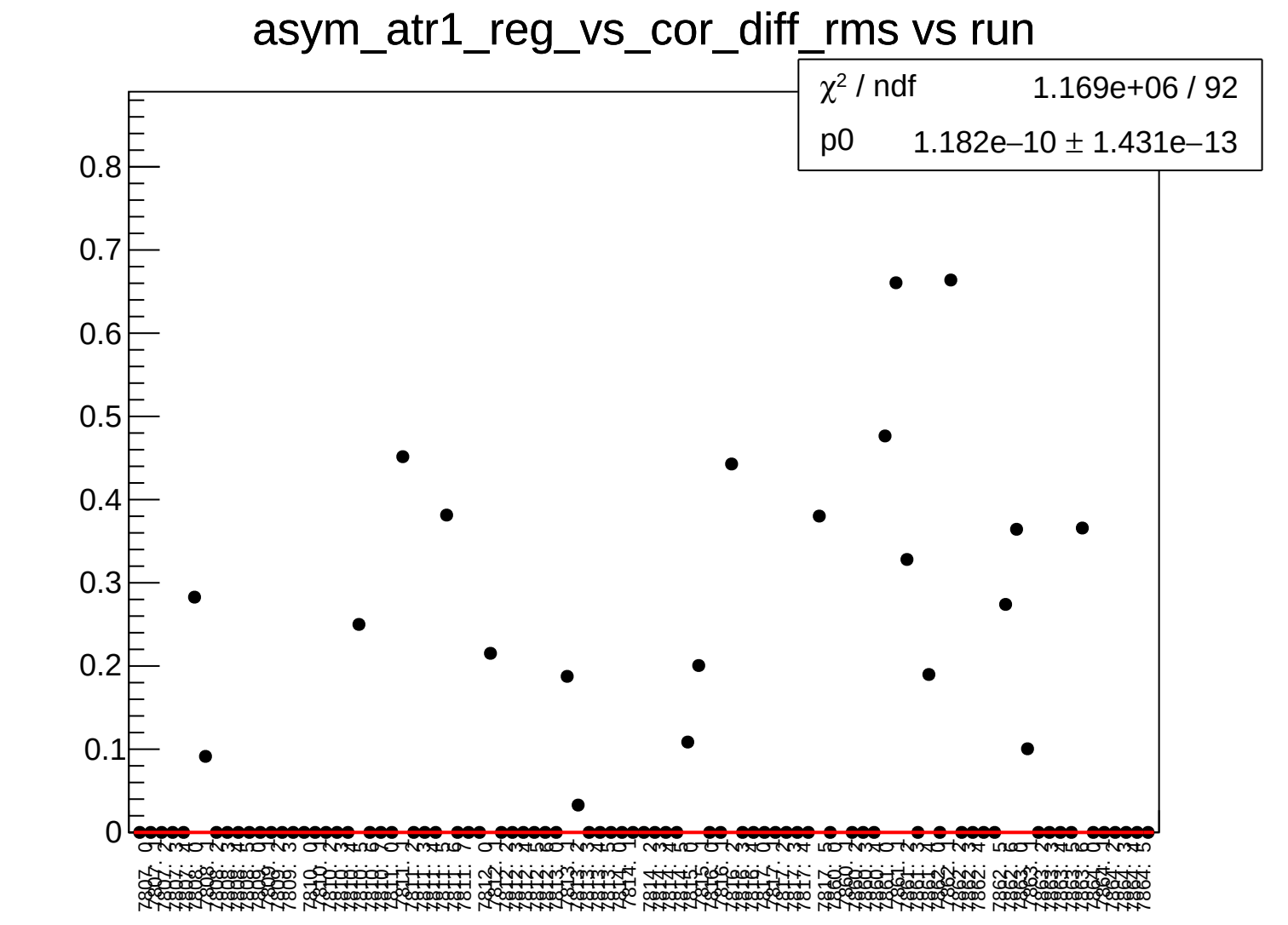

asym_atr1_mean vs run
×10^3
χ² / ndf 77.82 / 92
p0 −5341 ± 3465
100
50
0
−50
−100
−150
pull
Entries 93
Mean 656.4
Std Dev 0
2
1
0
−1
−2

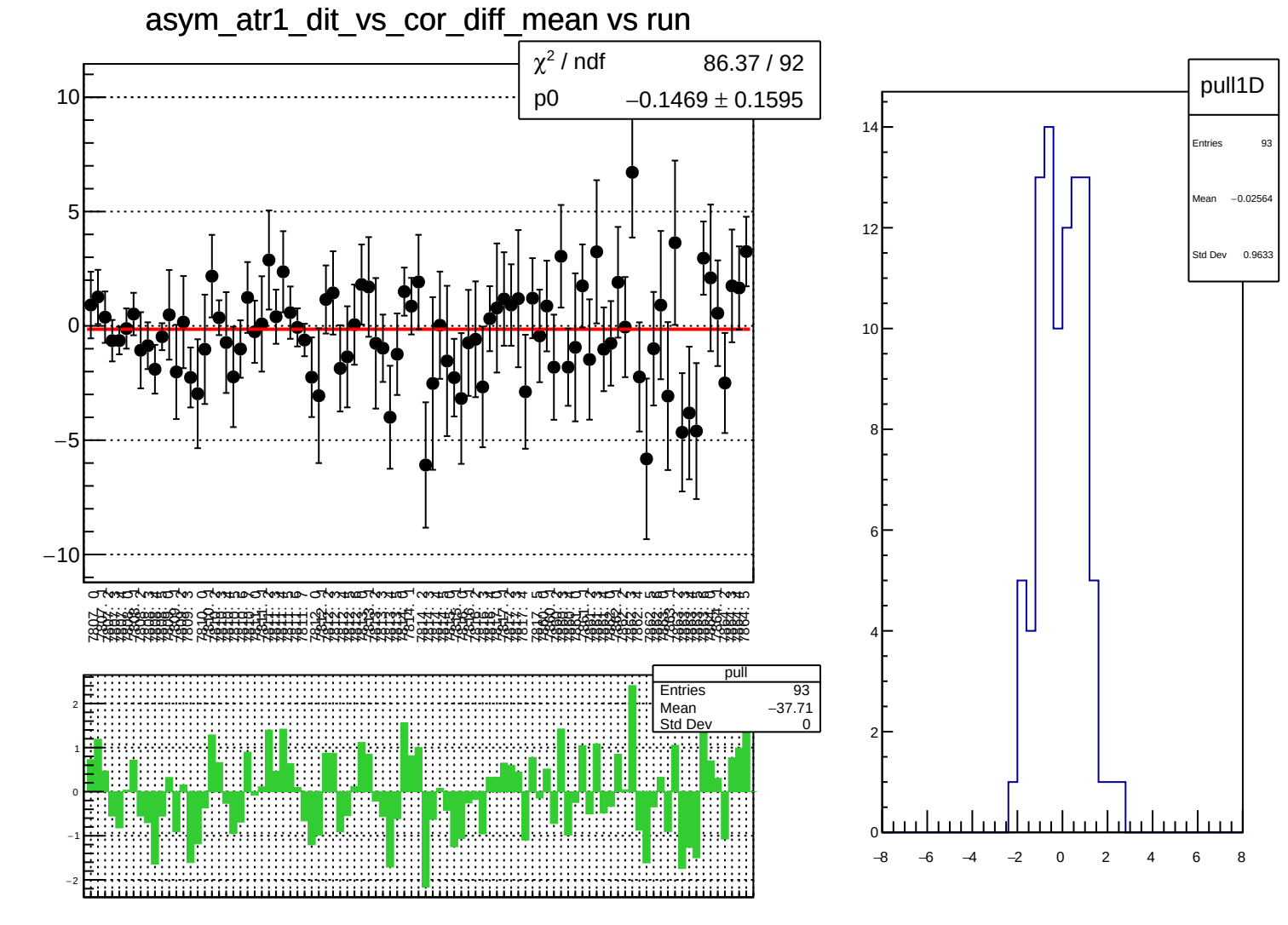

pull1D
Entries 93
Mean 0.005278
Std Dev 0.9147
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

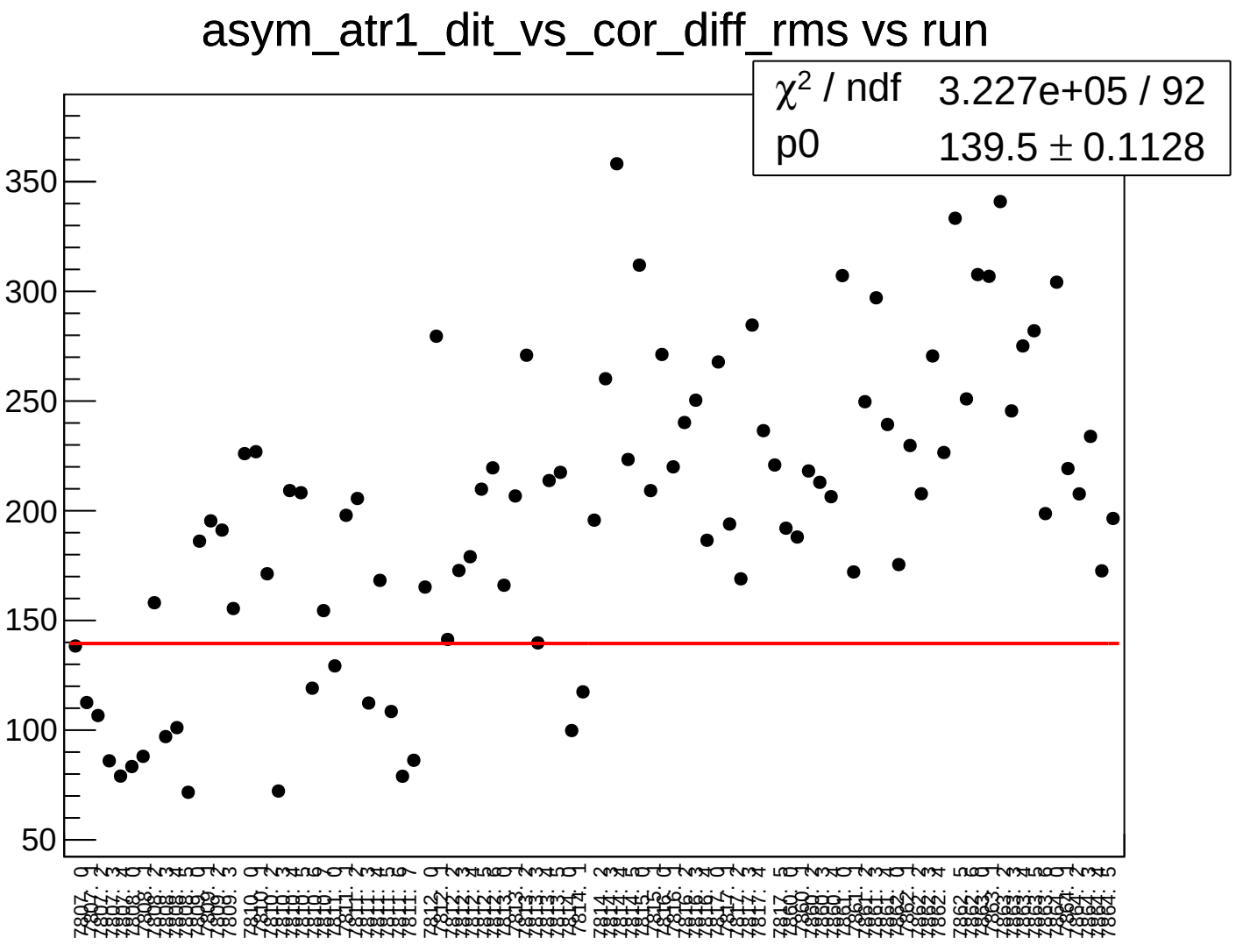

asym_atr1_rms vs run
χ² / ndf 4481 / 92
p0 3330 ± 2.45
3700
3600
3500
3400
3300
3200
3100

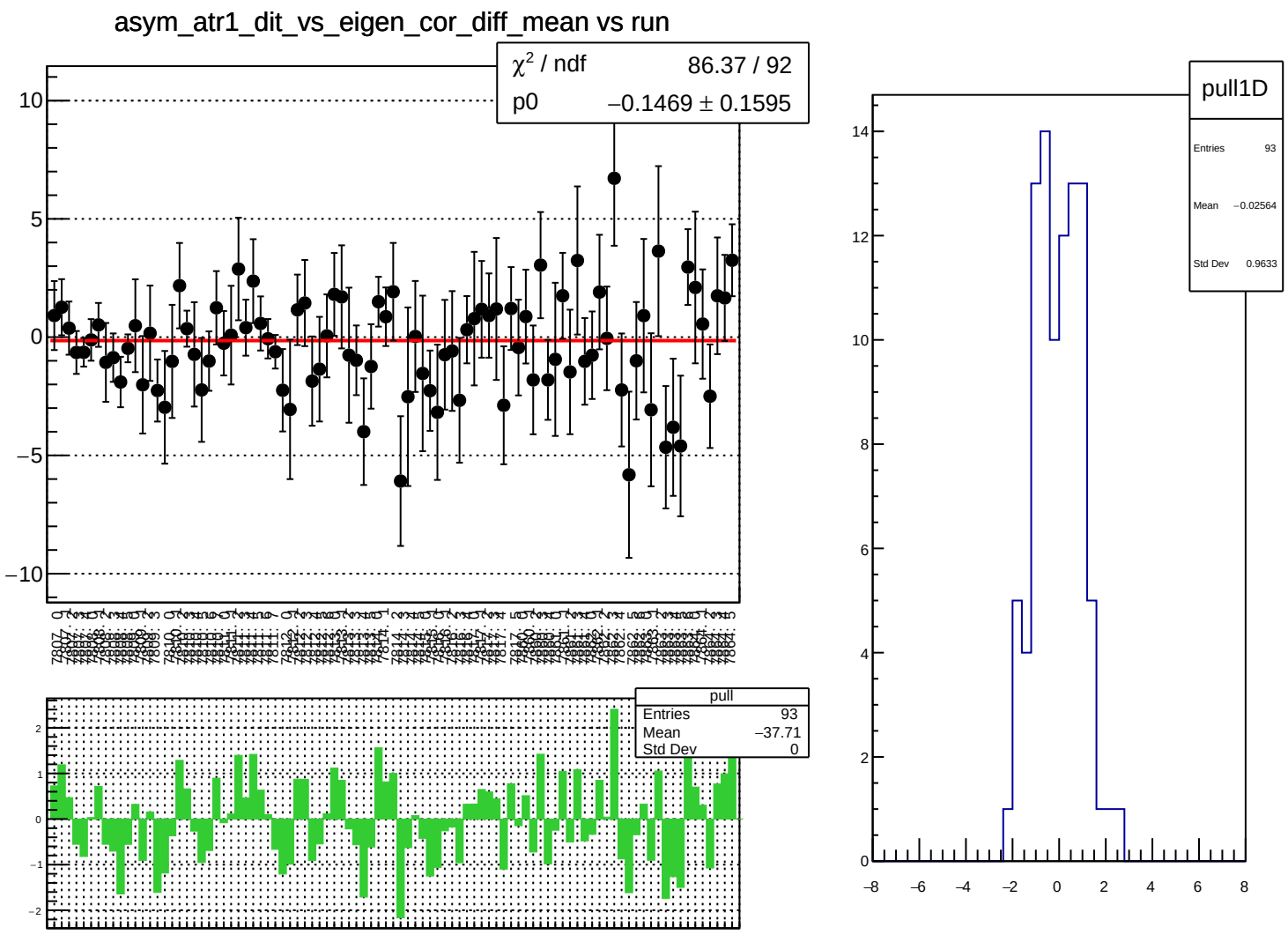

asym_atr1_reg_vs_cor_diff_mean vs run
χ² / ndf 86.63 / 92
p0 1.549e−14 ± 2.023e−13
pull
Entries 93
Mean 60.2
Std Dev 32.57

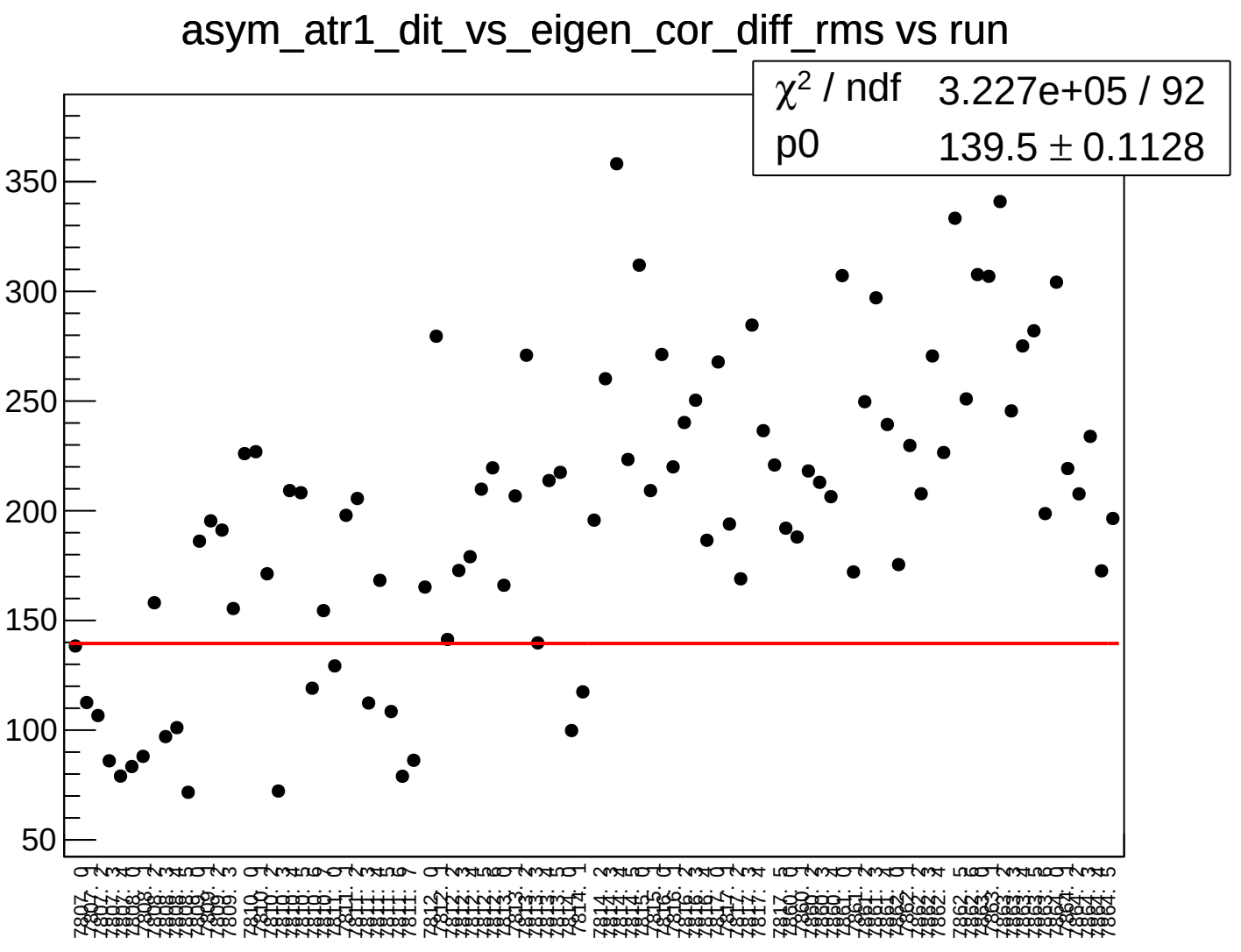

pull1D
Entries 93
Mean 0.1034
Std Dev 0.9596

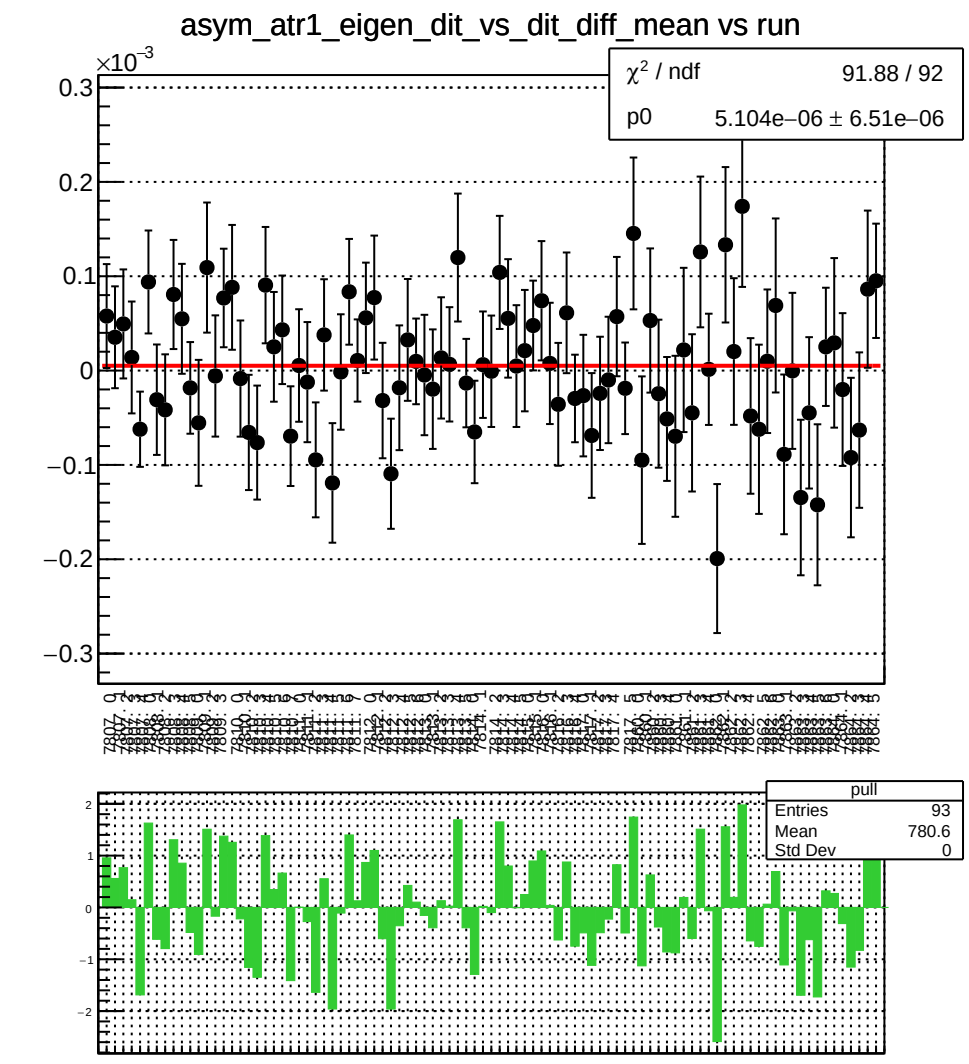

asym_atr1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.169e+06 / 92
p0 1.182e−10 ± 1.431e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

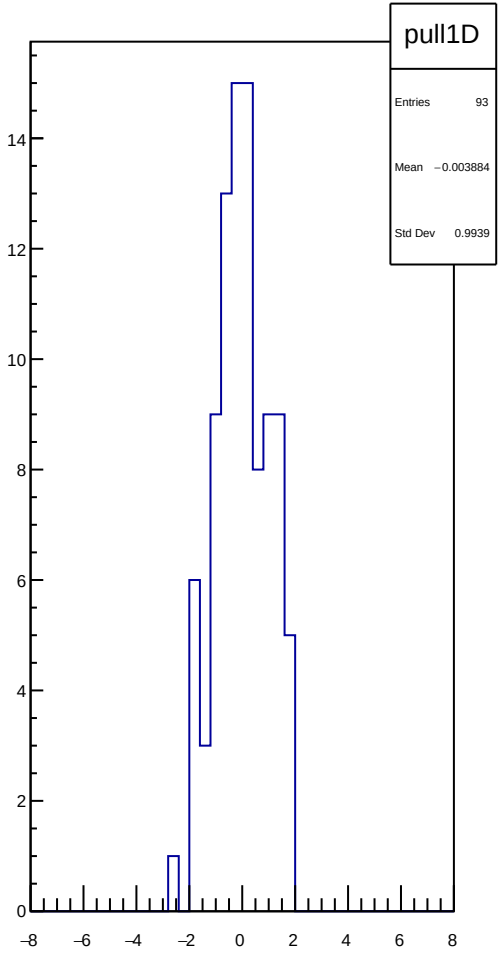

asym_atr1_dit_vs_cor_diff_mean vs run
χ² / ndf 86.37 / 92
p0 −0.1469 ± 0.1595
pull
Entries 93
Mean −37.71
Std Dev 0
pull1D
Entries 93
Mean −0.02564
Std Dev 0.9633


asym_atr1_dit_vs_cor_diff_rms vs run
χ² / ndf 3.227e+05 / 92
p0 139.5 ± 0.1128
350
300
250
200
150
100
50

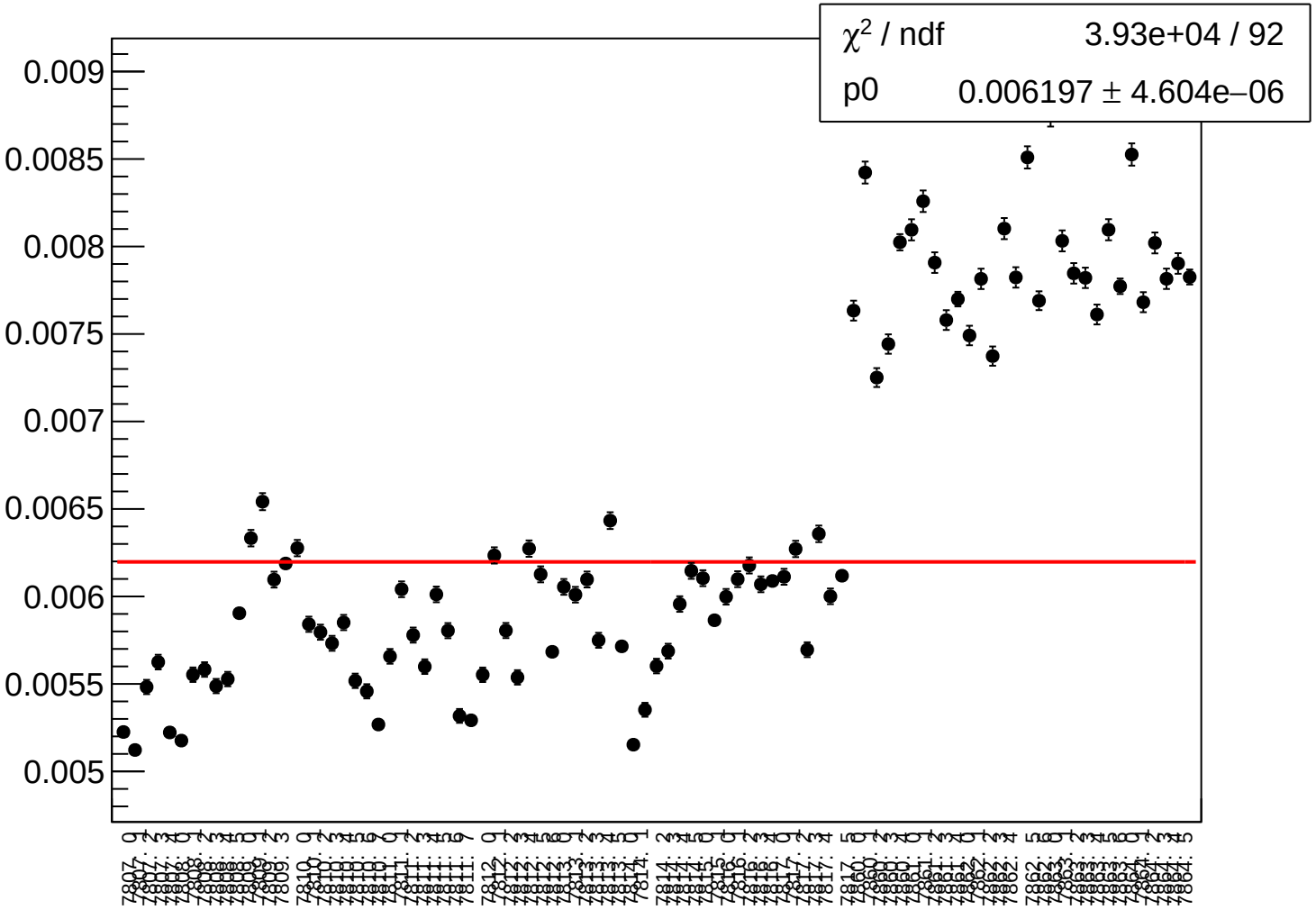

asym_atr1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.37 / 92
p0 −0.1469 ± 0.1595
pull
Entries 93
Mean −37.71
Std Dev 0
pull1D
Entries 93
Mean −0.02564
Std Dev 0.9633

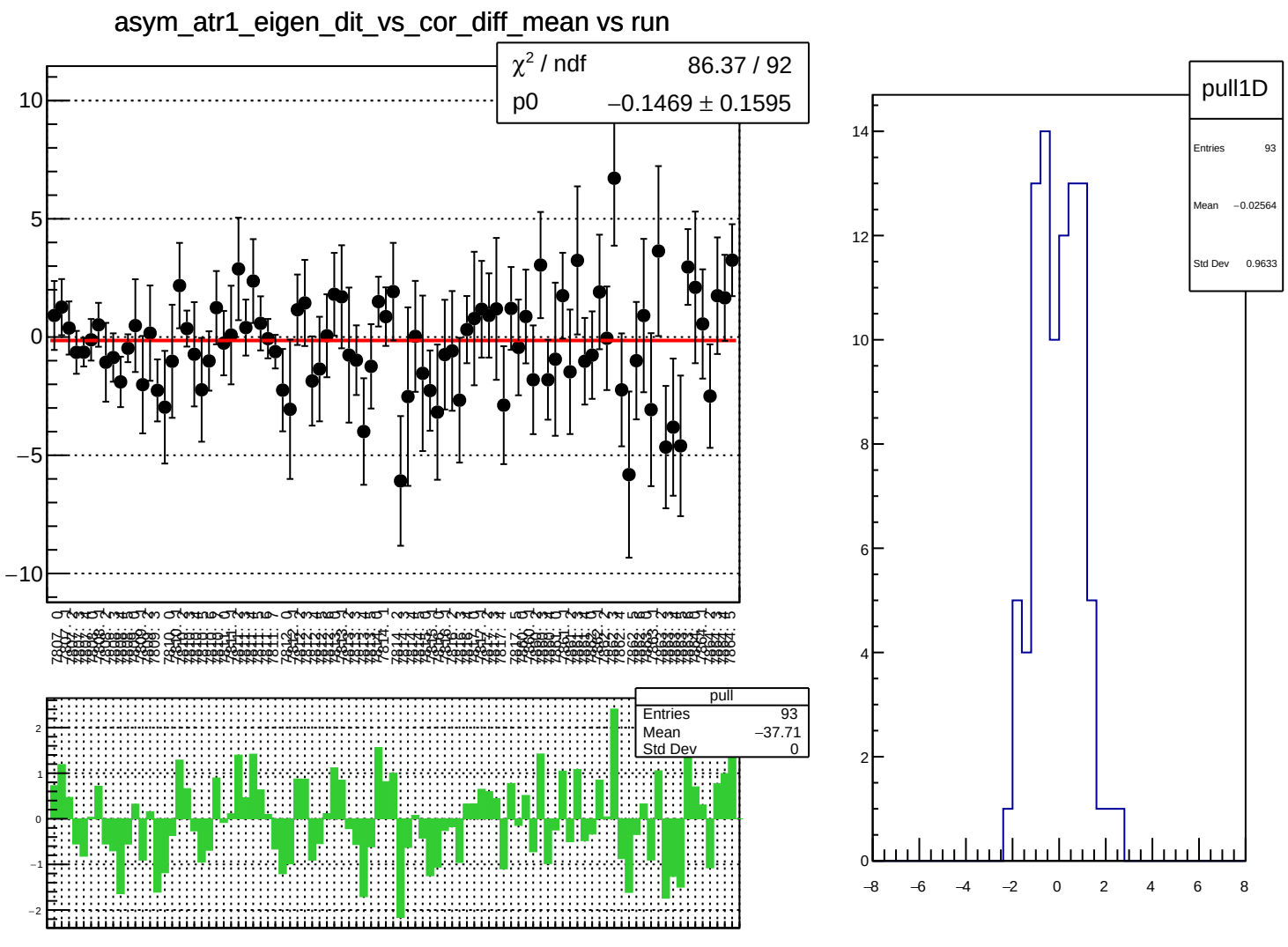

asym_atr1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.227e+05 / 92
p0 139.5 ± 0.1128
350
300
250
200
150
100
50

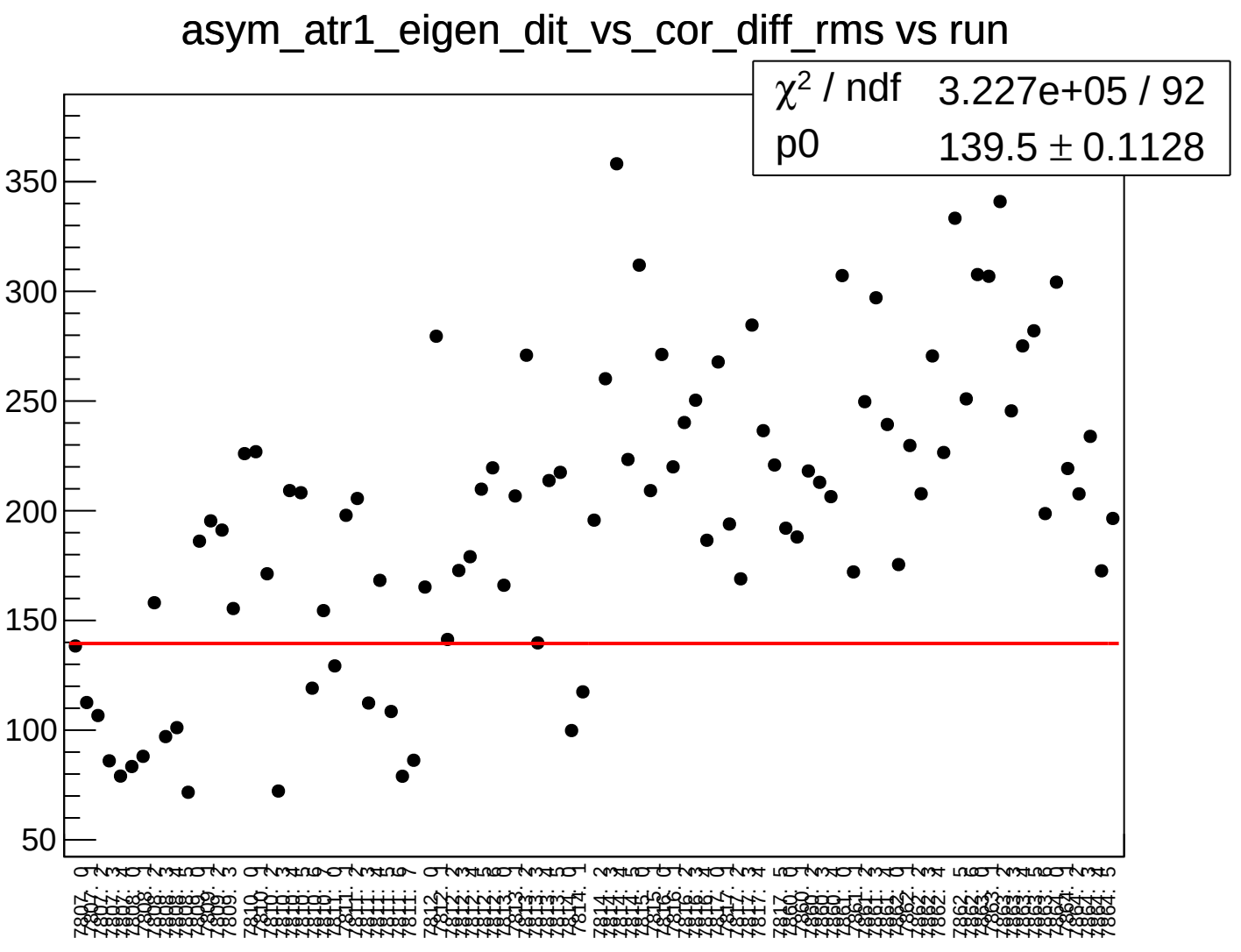

asym_atr1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.88 / 92
p0 5.104e−06 ± 6.51e−06
pull
Entries 93
Mean 780.6
Std Dev 0

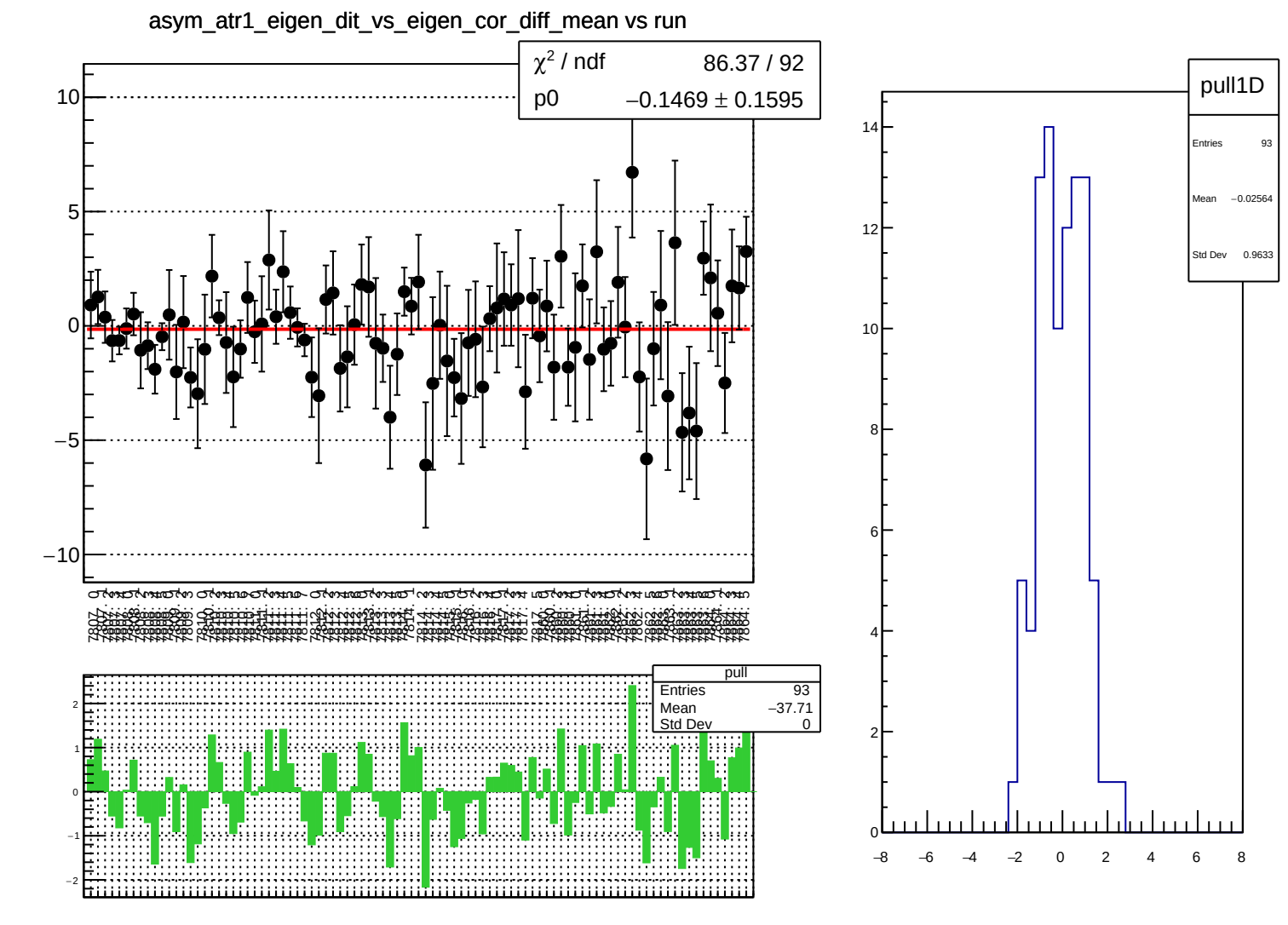

pull1D
Entries 93
Mean −0.003884
Std Dev 0.9939

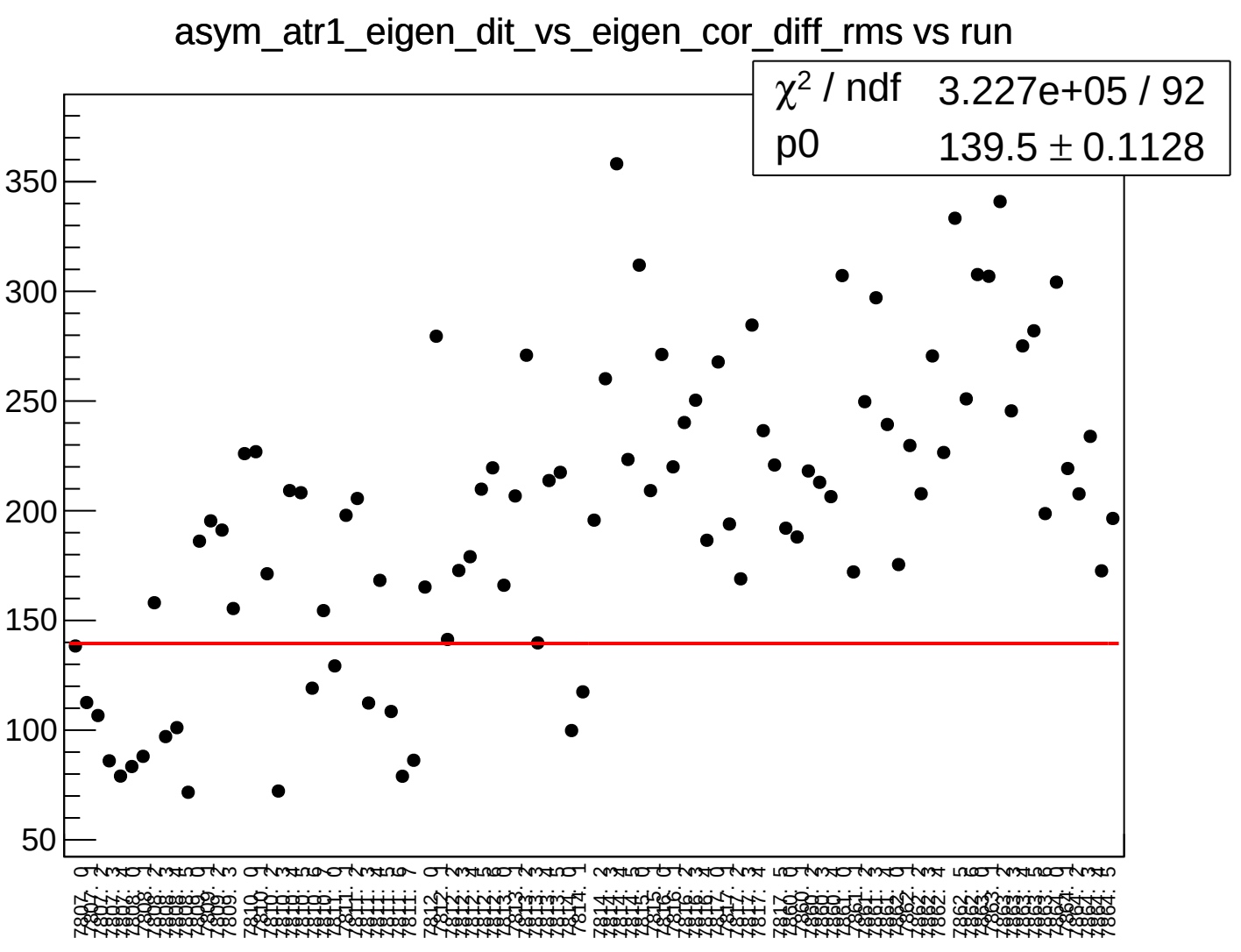
asym_atr1_eigen_dit_vs_dit_diff_rms vs run

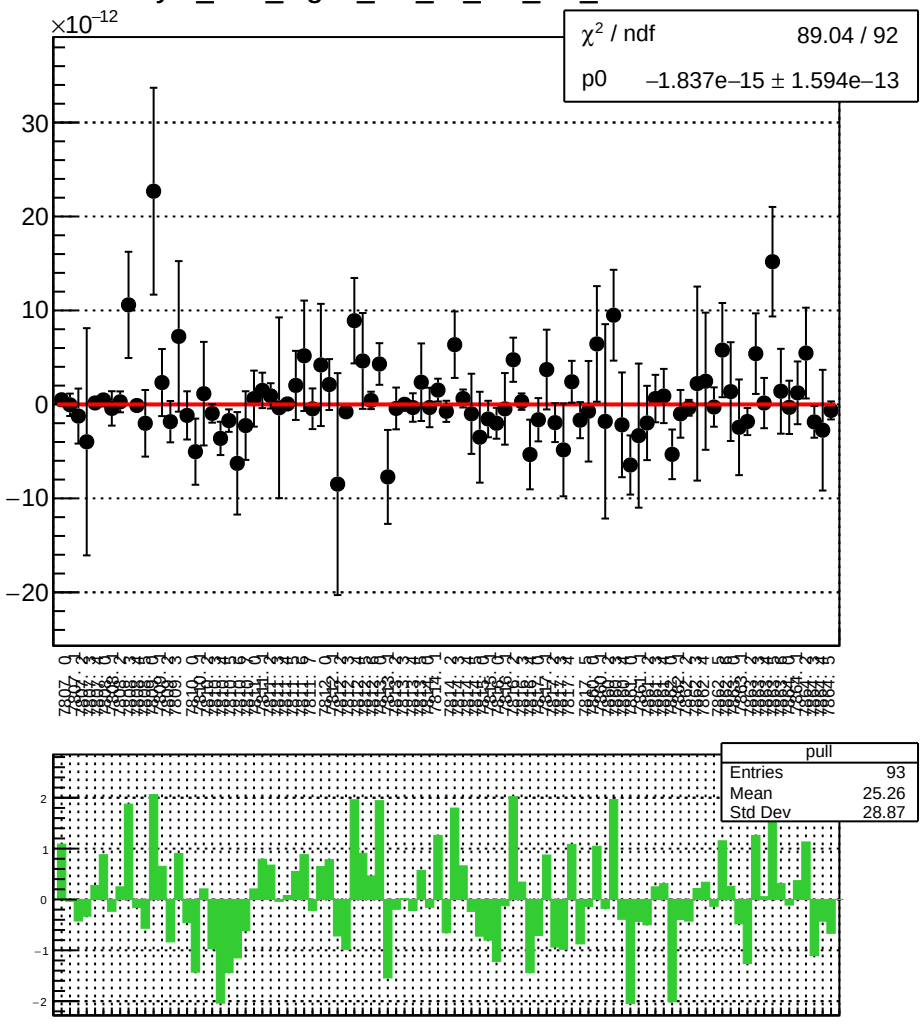


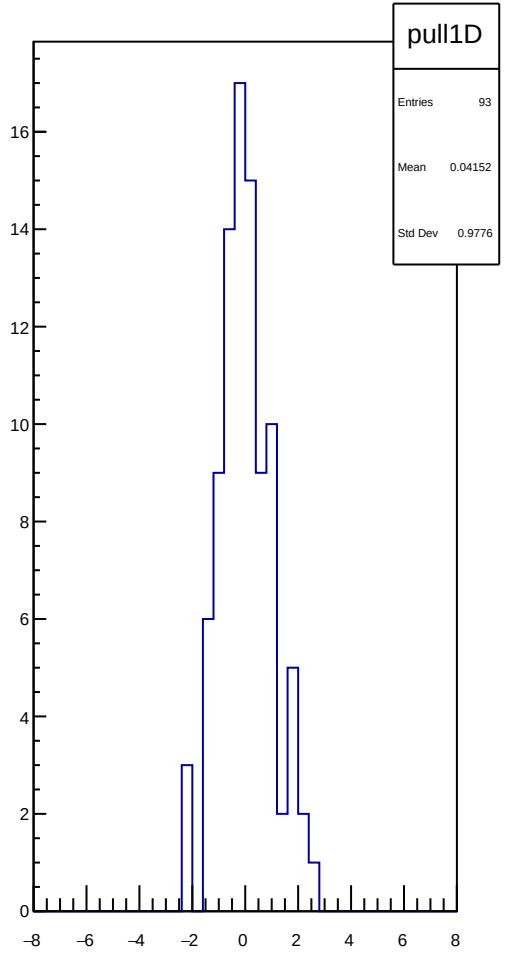

asym_atr1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.37 / 92
p0 −0.1469 ± 0.1595
pull
Entries 93
Mean −37.71
Std Dev 0
pull1D
Entries 93
Mean −0.02564
Std Dev 0.9633

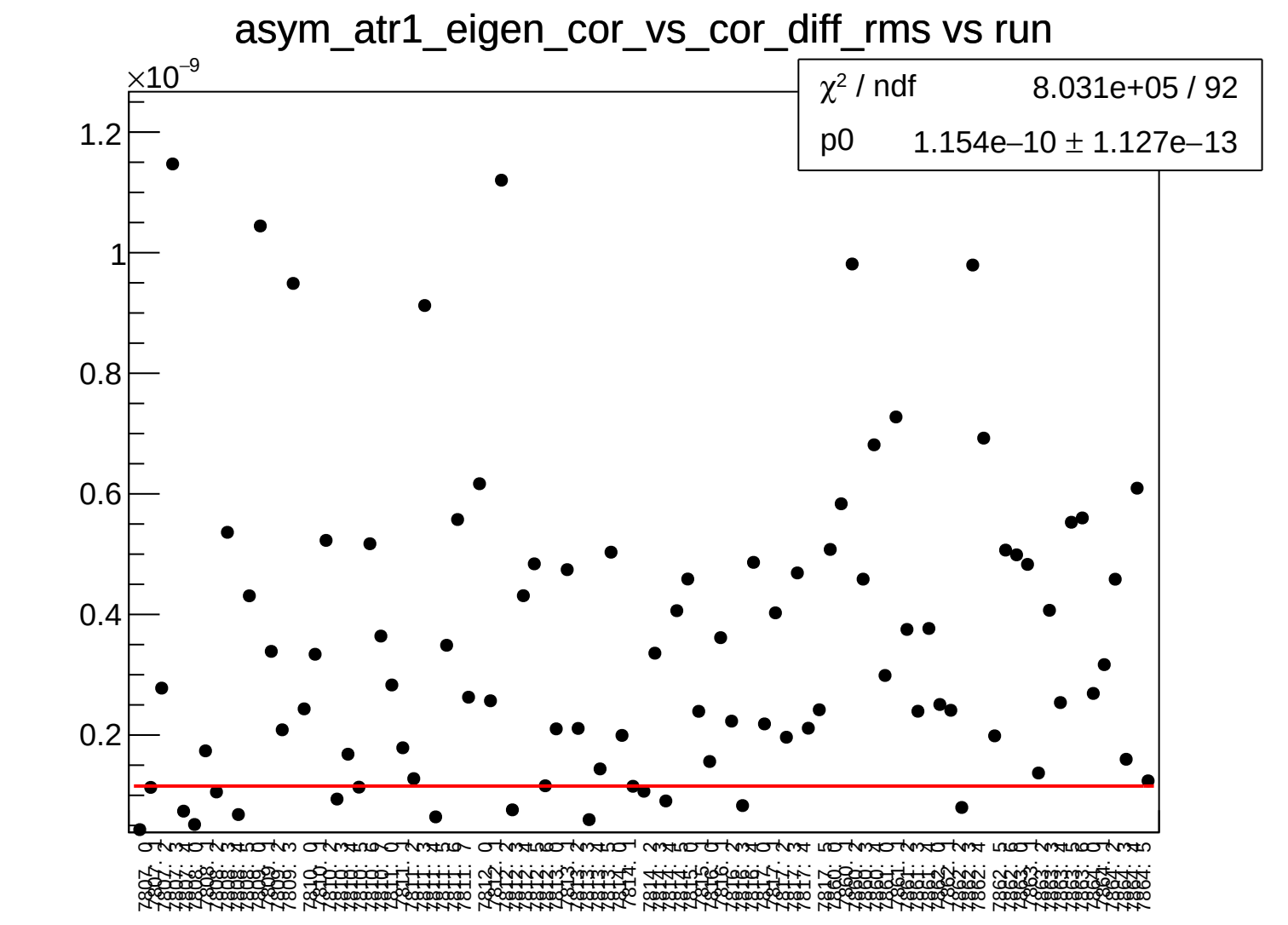

asym_atr1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.227e+05 / 92
p0 139.5 ± 0.1128
350
300
250
200
150
100
50

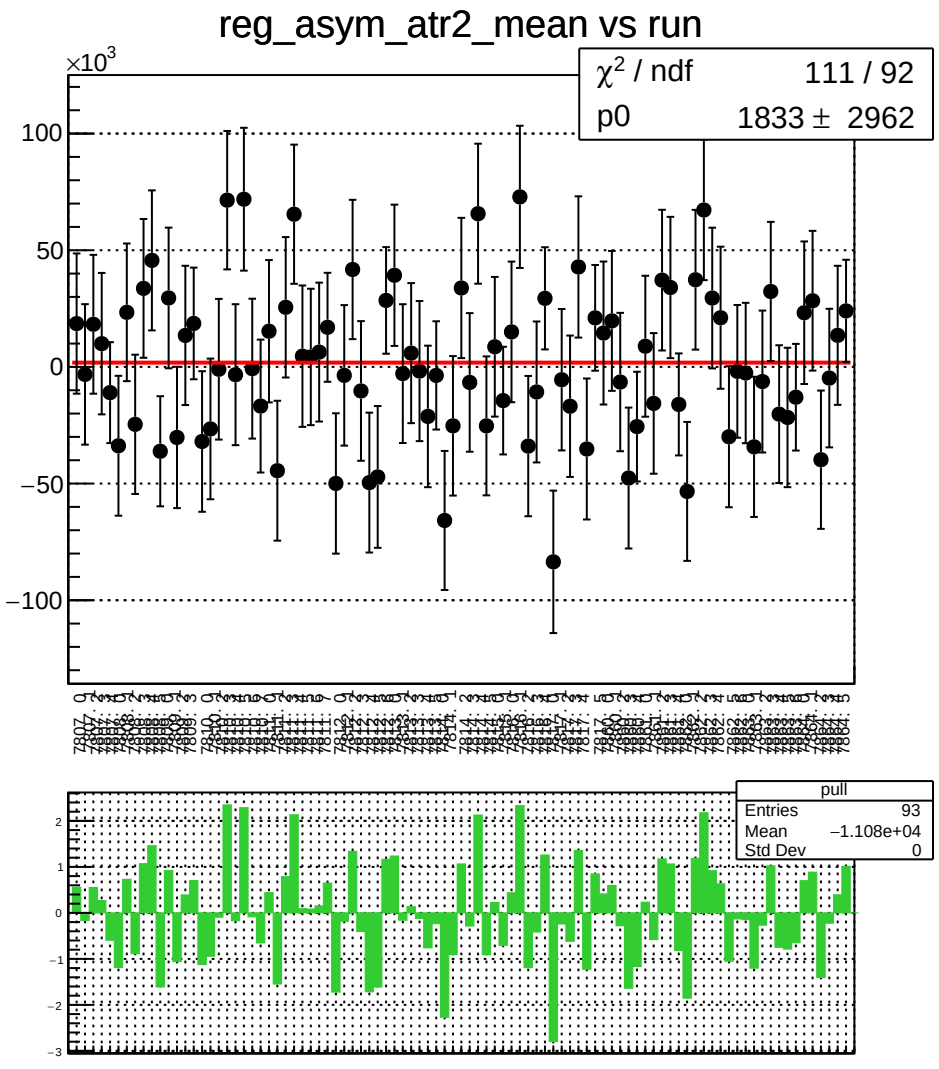

asym_atr1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.37 / 92
p0 −0.1469 ± 0.1595
pull
Entries 93
Mean −37.71
Std Dev 0
pull1D
Entries 93
Mean −0.02564
Std Dev 0.9633

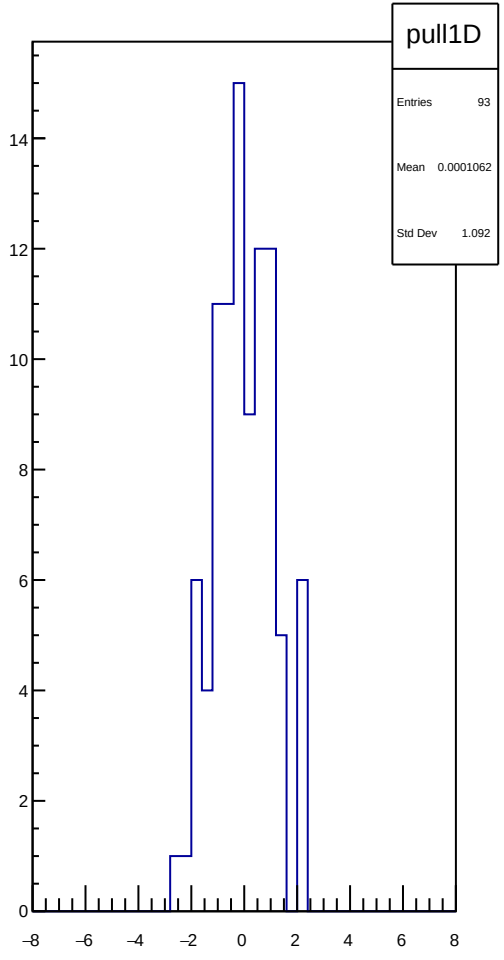

asym_atr1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.227e+05 / 92
p0 139.5 ± 0.1128
350
300
250
200
150
100
50

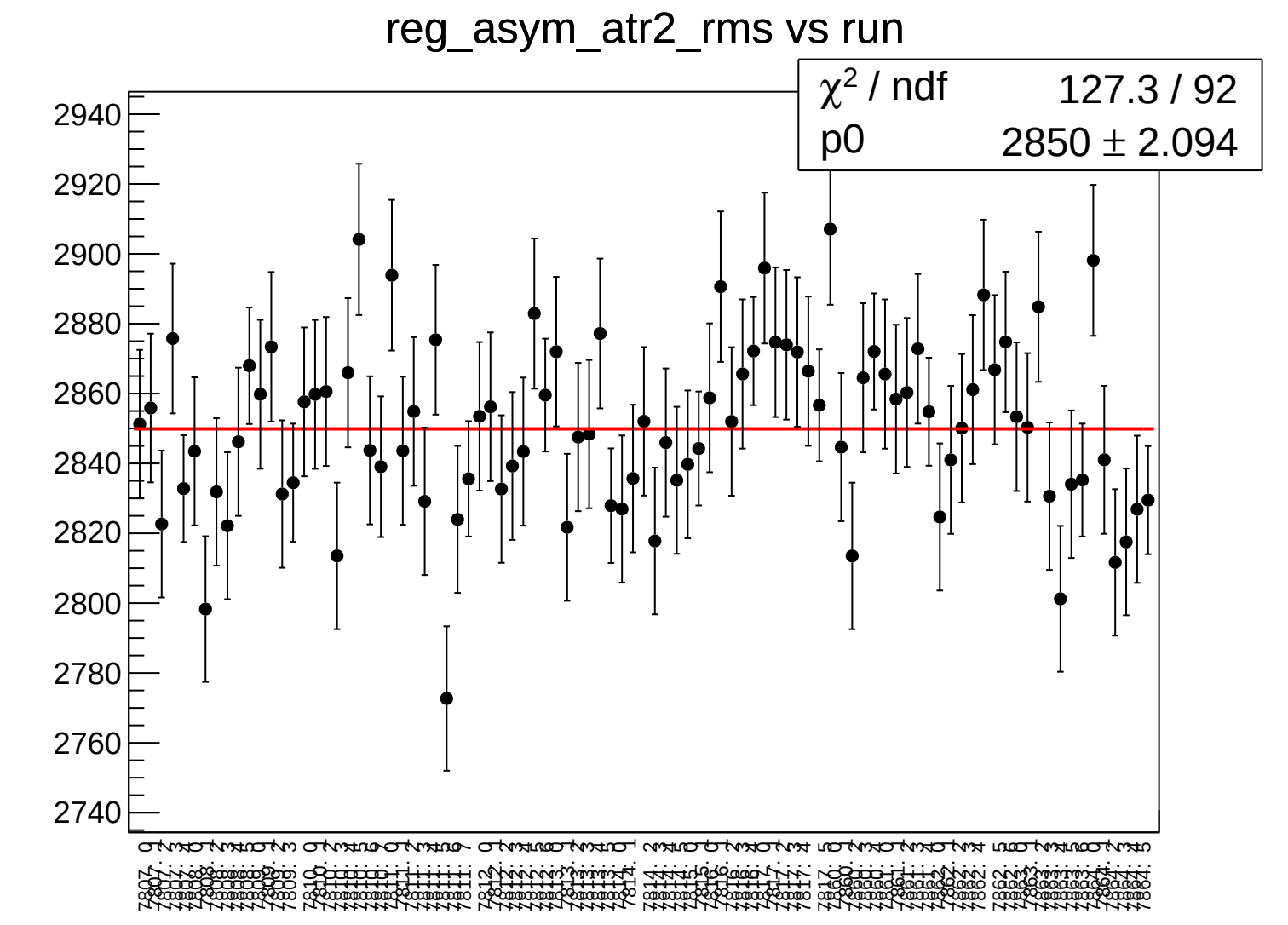

asym_atr1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.04 / 92
p0 −1.837e−15 ± 1.594e−13
30
20
10
0
−10
−20
pull
Entries 93
Mean 25.26
Std Dev 28.87
2
1
0
−1
−2

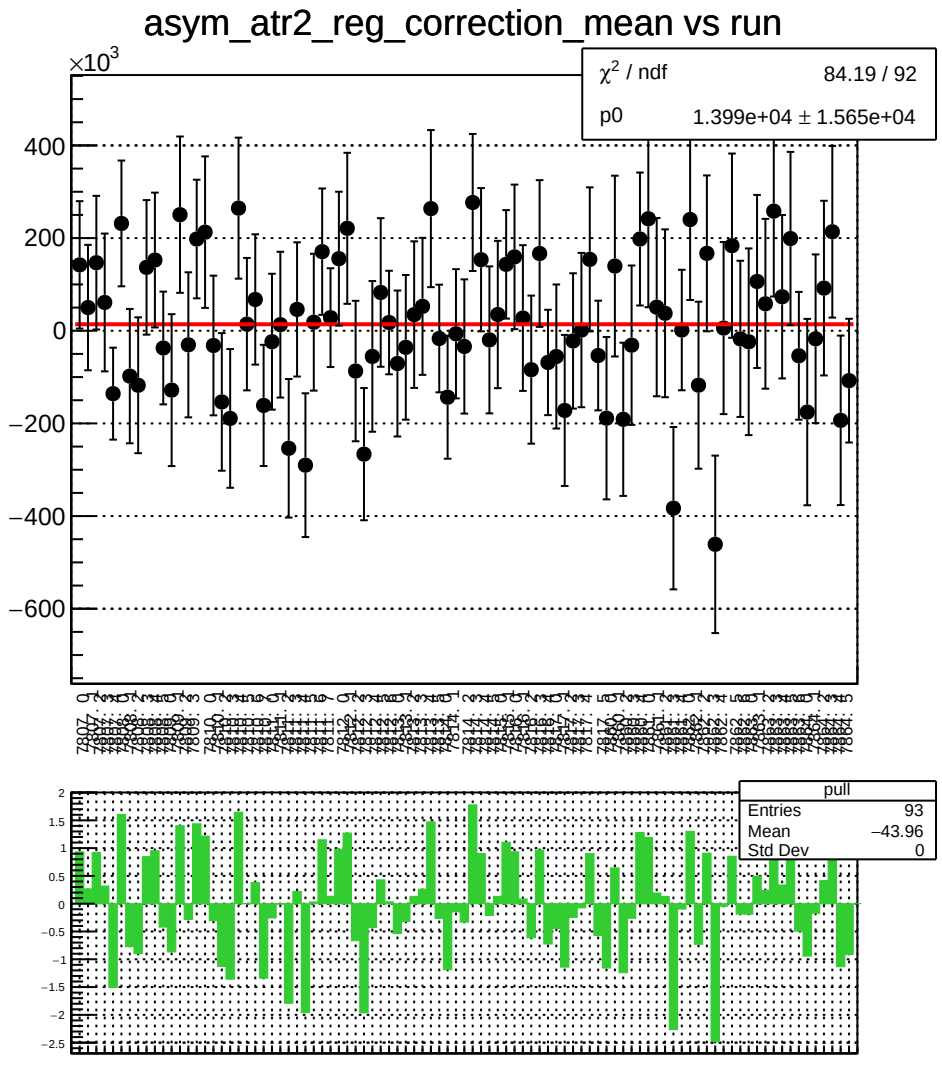

pull1D
Entries 93
Mean 0.04152
Std Dev 0.9776
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

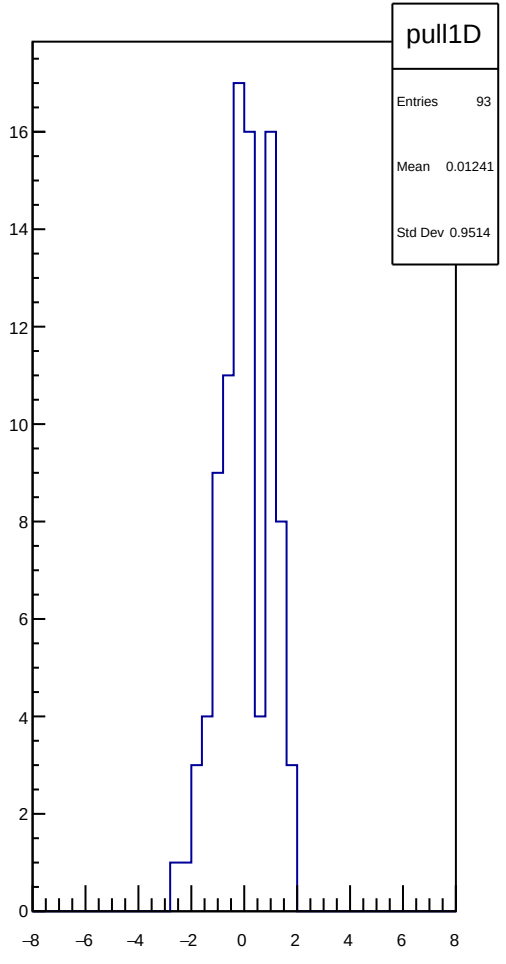

asym_atr1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.031e+05 / 92
p0 1.154e−10 ± 1.127e−13
1.2
1
0.8
0.6
0.4
0.2

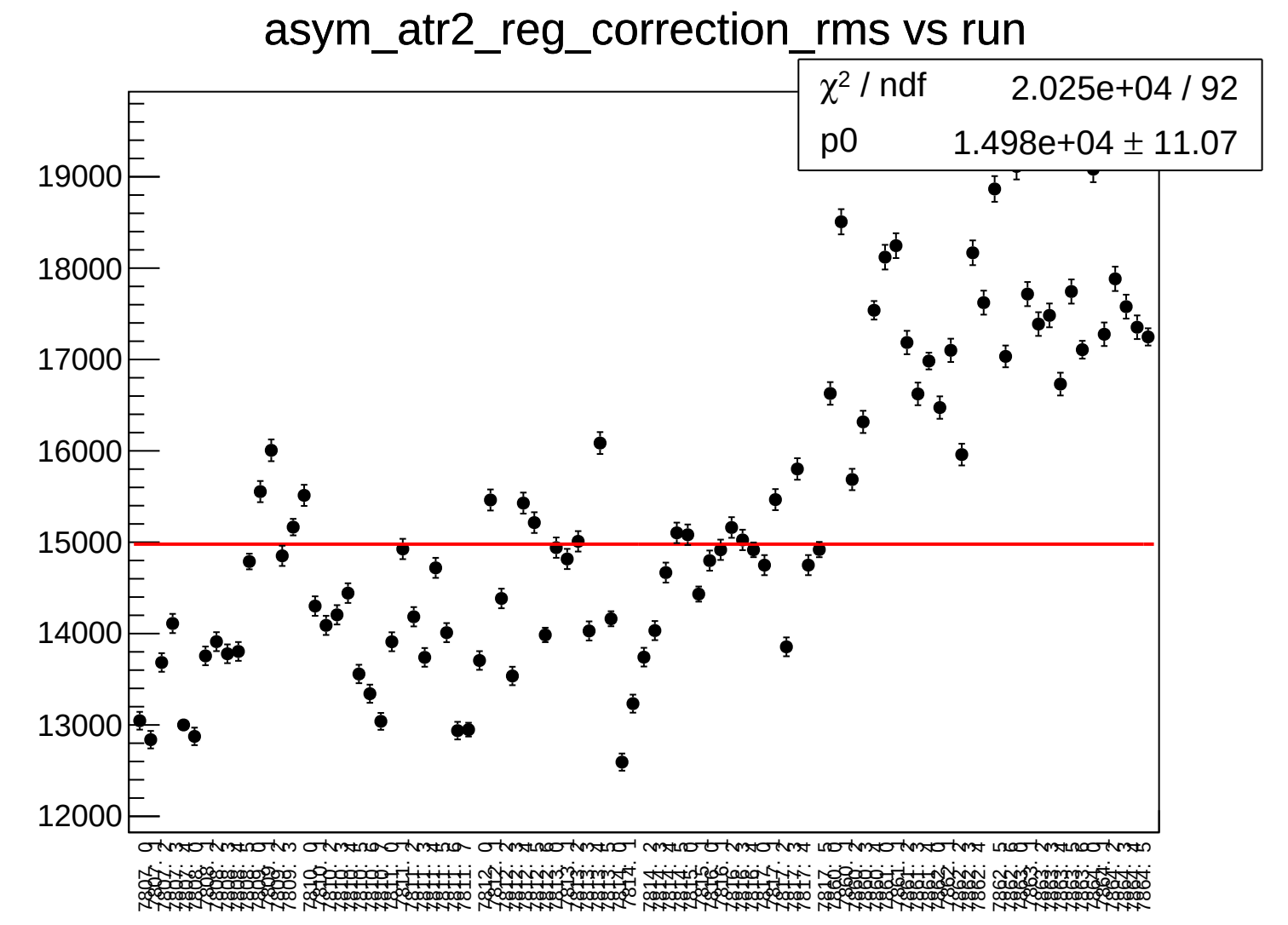

reg_asym_atr2_mean vs run
×10^3
χ^2 / ndf 111 / 92
p0 1833 ± 2962
100
50
0
−50
−100
pull
Entries 93
Mean −1.108e+04
Std Dev 0
2
1
0
−1
−2
−3

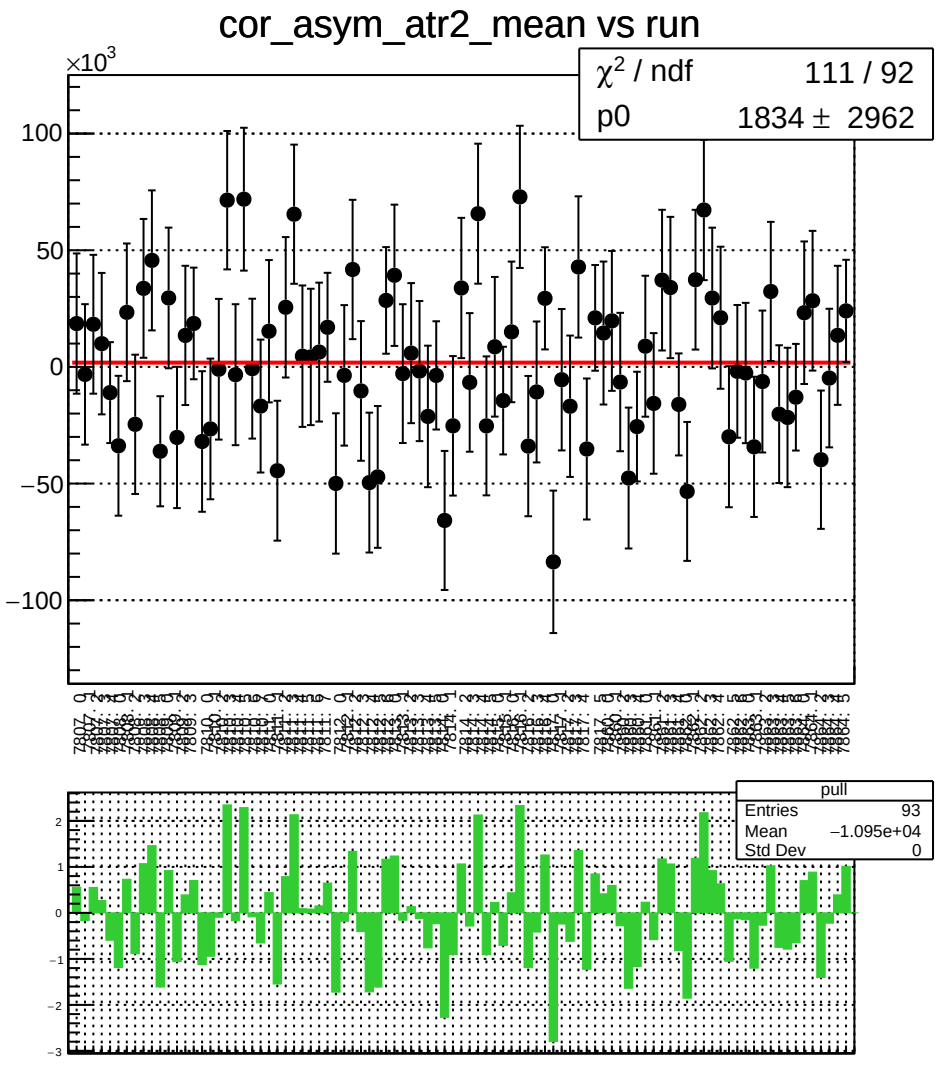

pull1D
Entries 93
Mean 0.0001062
Std Dev 1.092
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

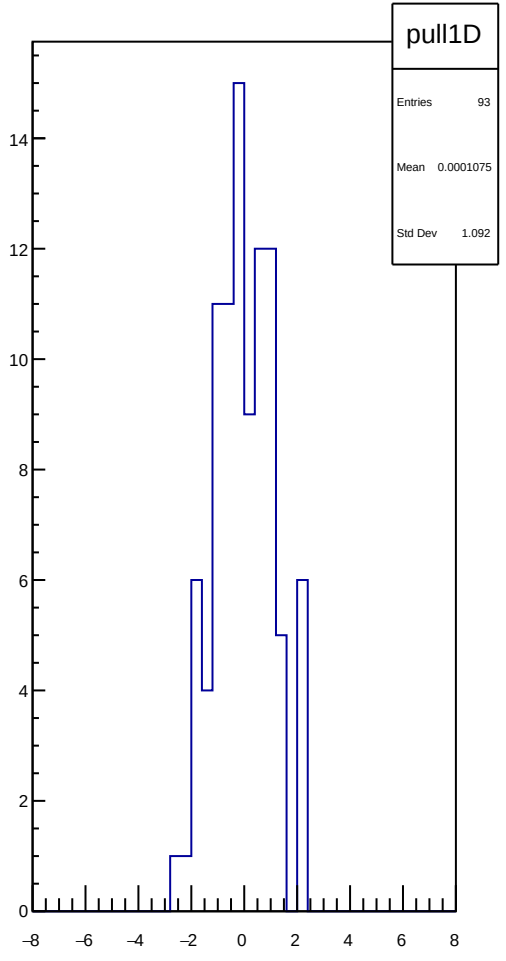

reg_asym_atr2_rms vs run
χ^2 / ndf 127.3 / 92
p0 2850 ± 2.094
2940
2920
2900
2880
2860
2840
2820
2800
2780
2760
2740

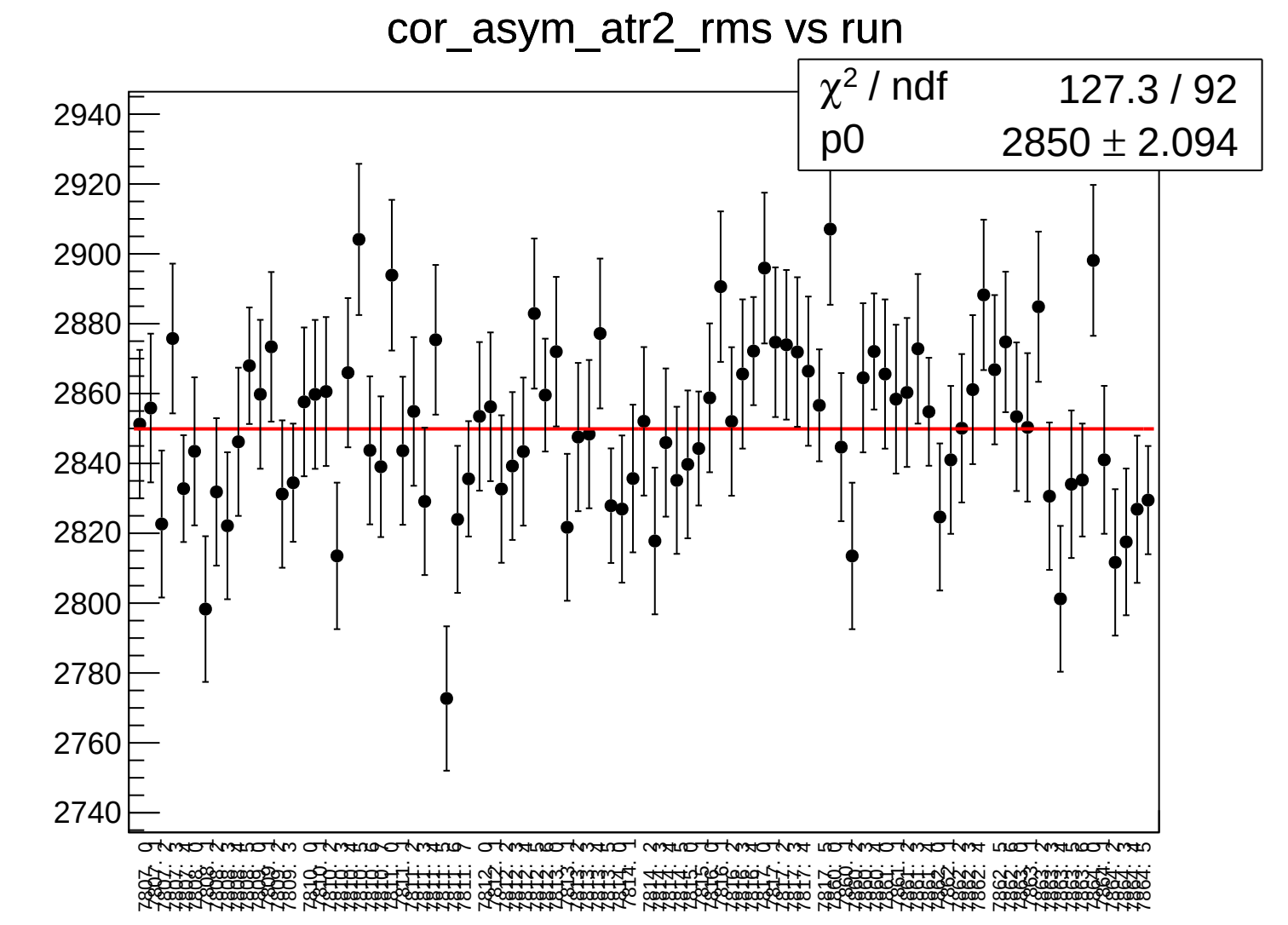

asym_atr2_reg_correction_mean vs run
×10^3
χ² / ndf 84.19 / 92
p0 1.399e+04 ± 1.565e+04
400
200
0
−200
−400
−600
pull
Entries 93
Mean −43.96
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

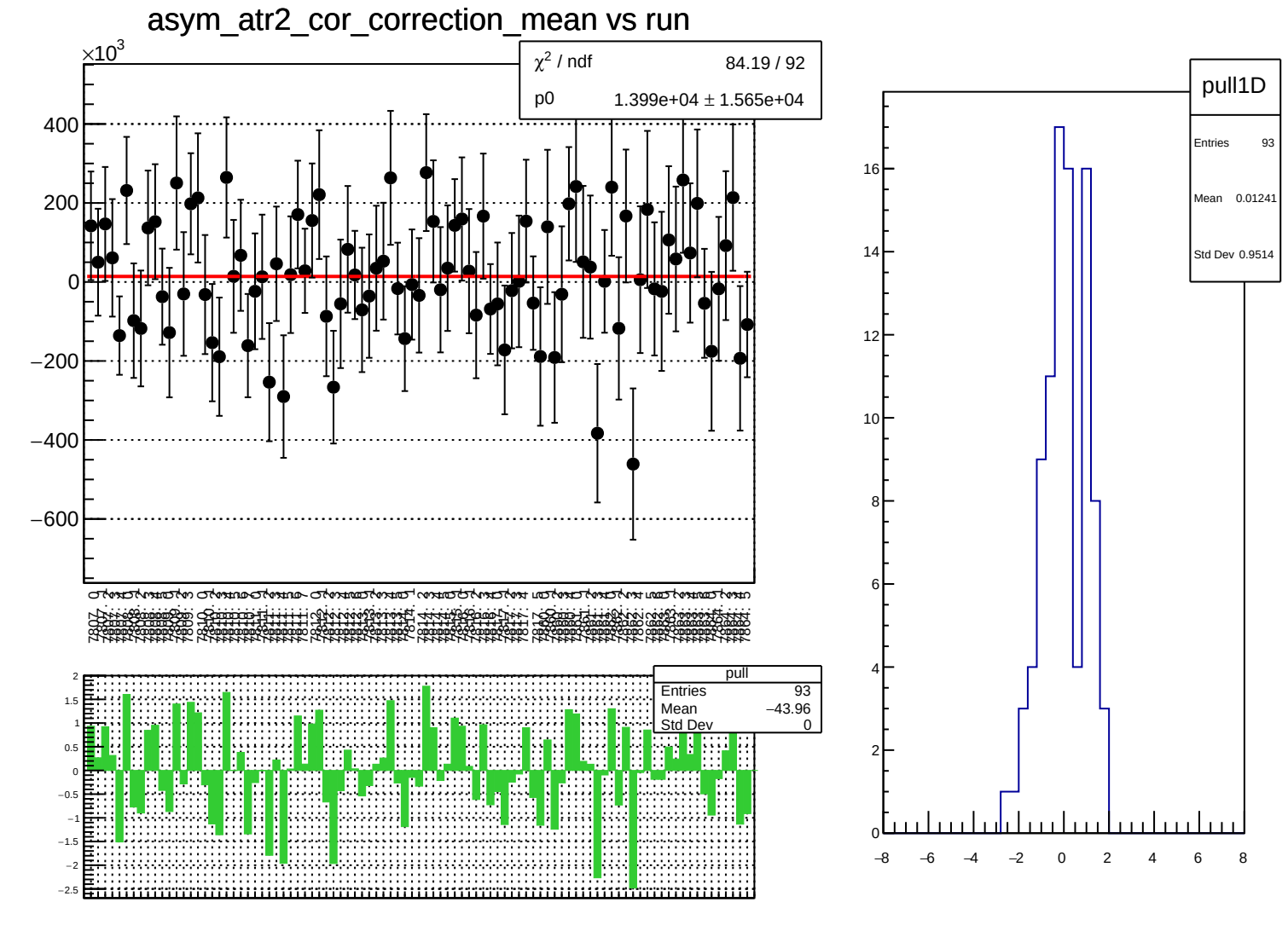

pull1D
Entries 93
Mean 0.01241
Std Dev 0.9514
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

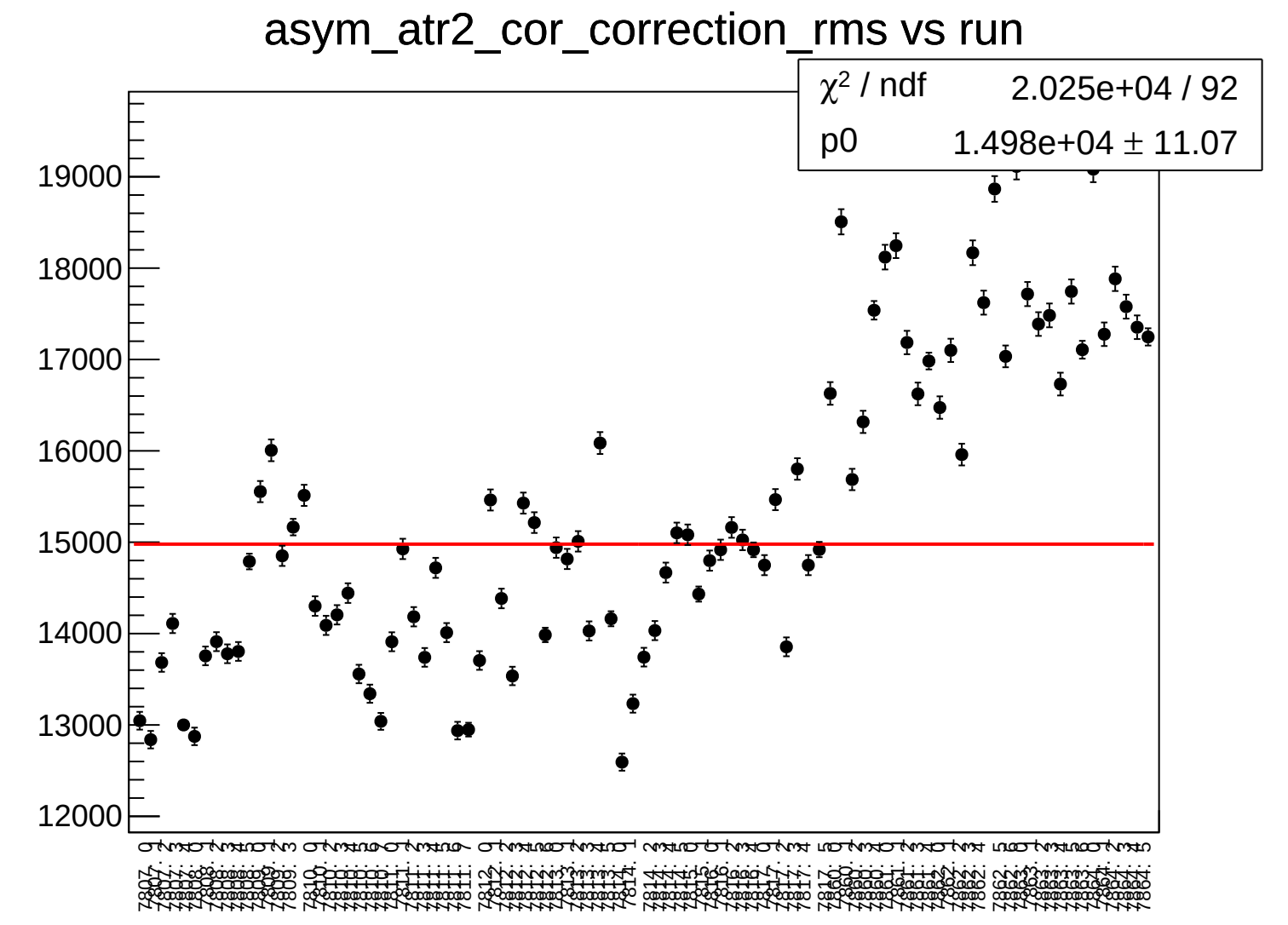

asym_atr2_reg_correction_rms vs run
χ² / ndf 2.025e+04 / 92
p0 1.498e+04 ± 11.07
19000
18000
17000
16000
15000
14000
13000
12000

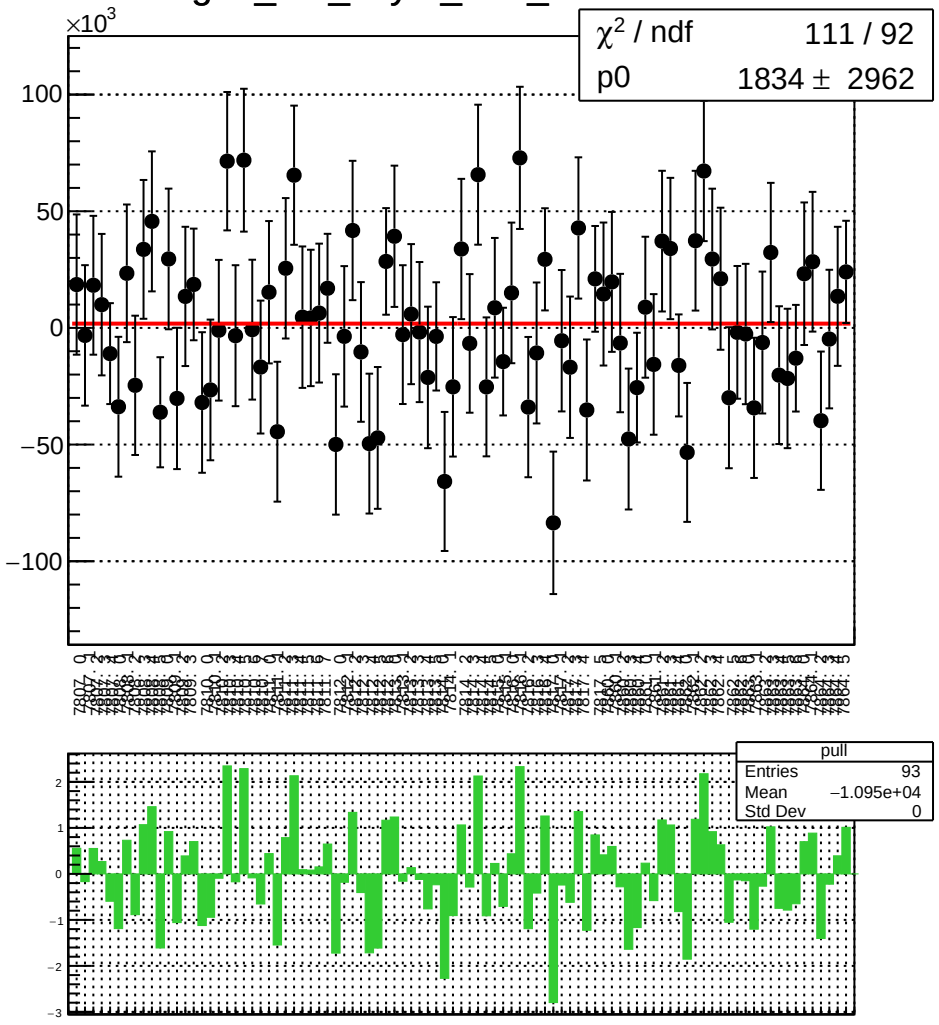

cor_asym_atr2_mean vs run
×10^3
χ² / ndf 111 / 92
p0 1834 ± 2962
100
50
0
−50
−100
pull
Entries 93
Mean −1.095e+04
Std Dev 0
2
1
0
−1
−2
−3

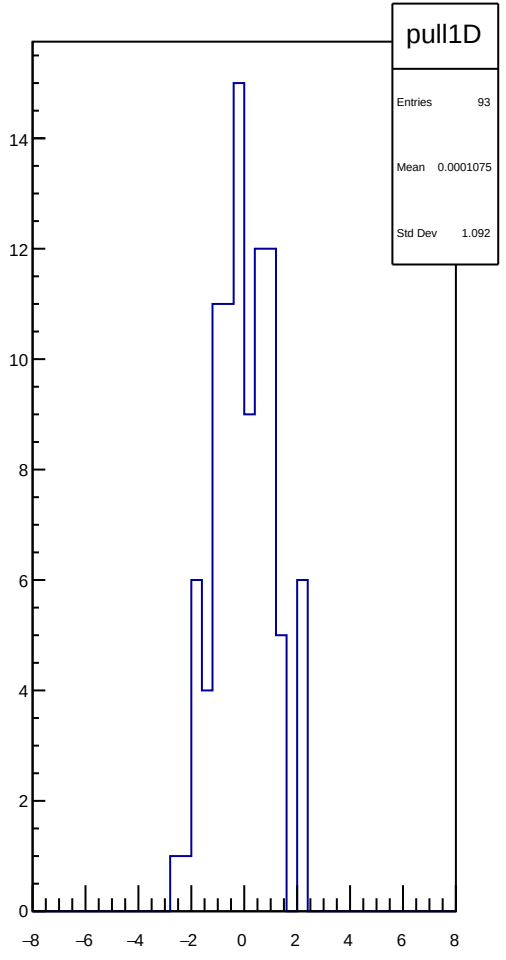

pull1D
Entries 93
Mean 0.0001075
Std Dev 1.092
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

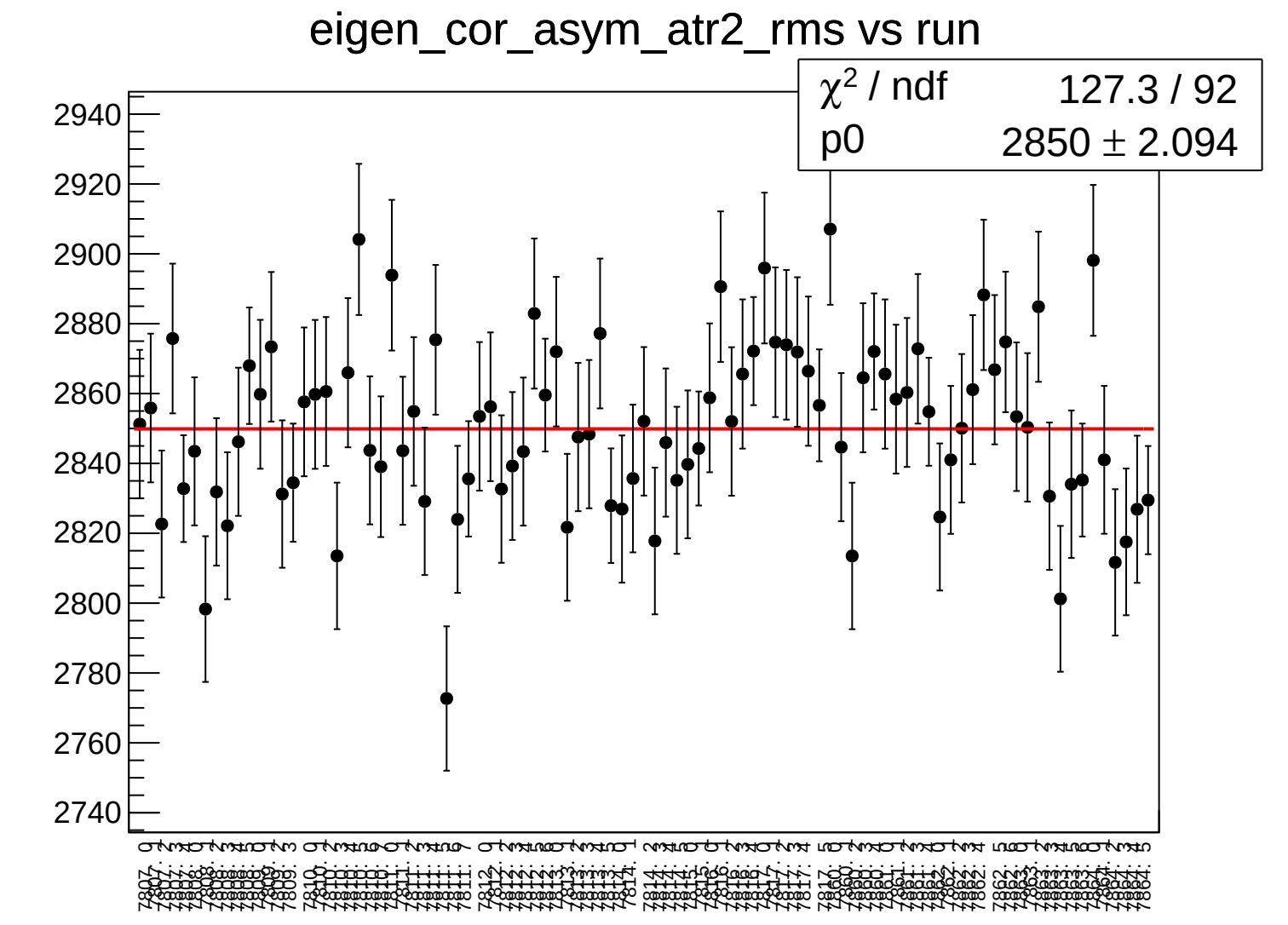

cor_asym_atr2_rms vs run
χ^2 / ndf 127.3 / 92
p0 2850 ± 2.094
2940
2920
2900
2880
2860
2840
2820
2800
2780
2760
2740

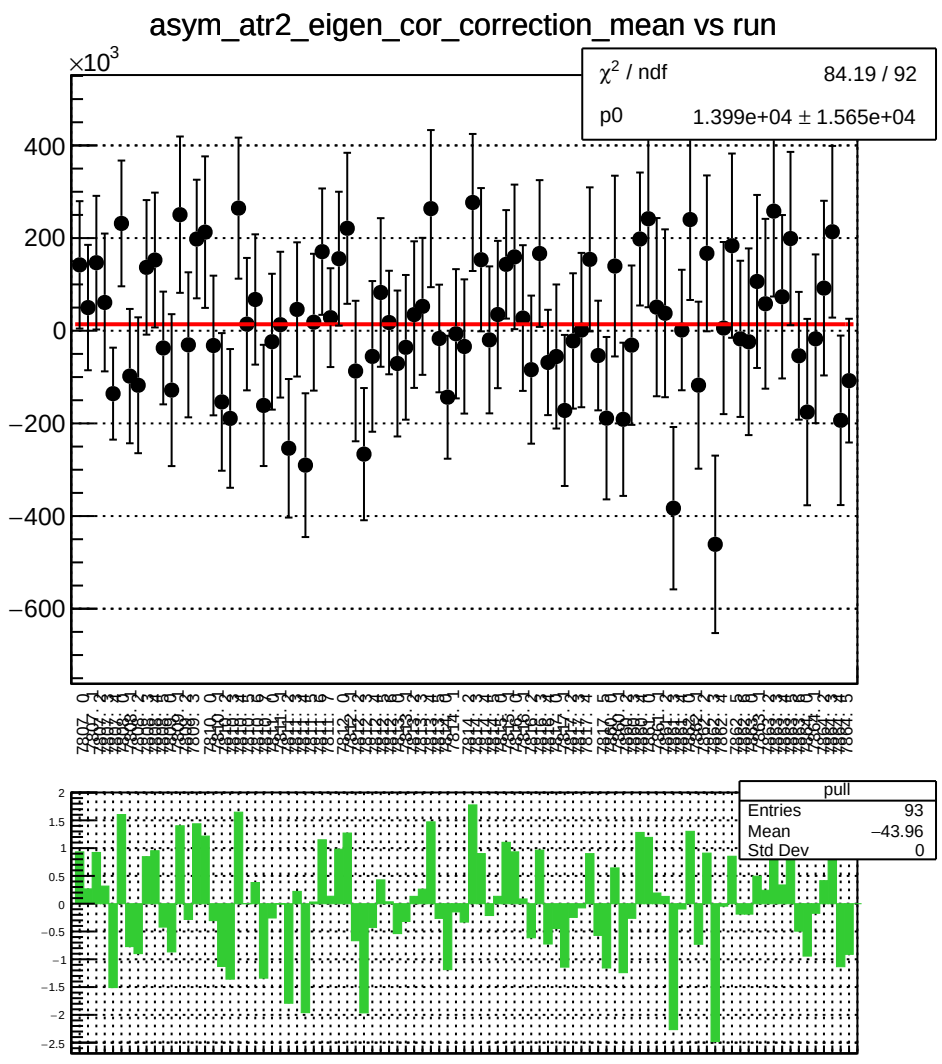

asym_atr2_cor_correction_mean vs run
×10^3
χ² / ndf 84.19 / 92
p0 1.399e+04 ± 1.565e+04
400
200
0
−200
−400
−600
pull
Entries 93
Mean −43.96
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 93
Mean 0.01241
Std Dev 0.9514
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

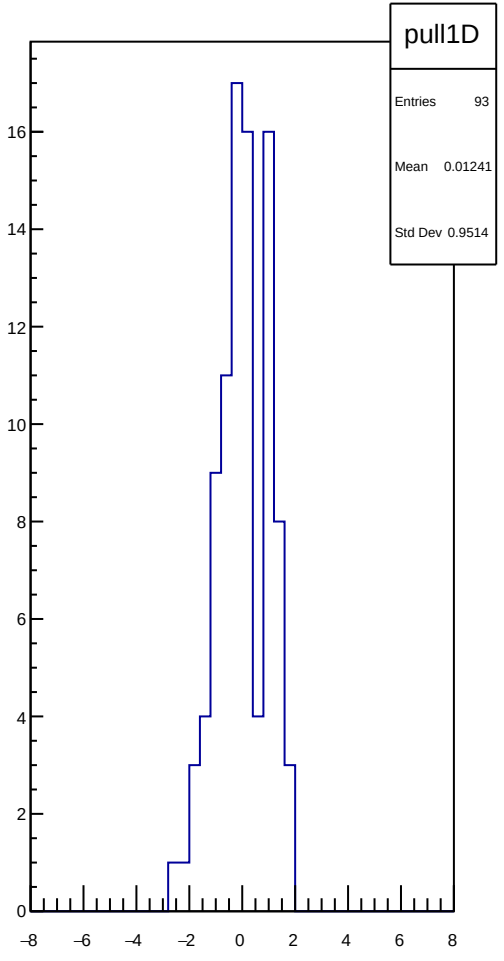

asym_atr2_cor_correction_rms vs run
χ² / ndf 2.025e+04 / 92
p0 1.498e+04 ± 11.07
19000
18000
17000
16000
15000
14000
13000
12000

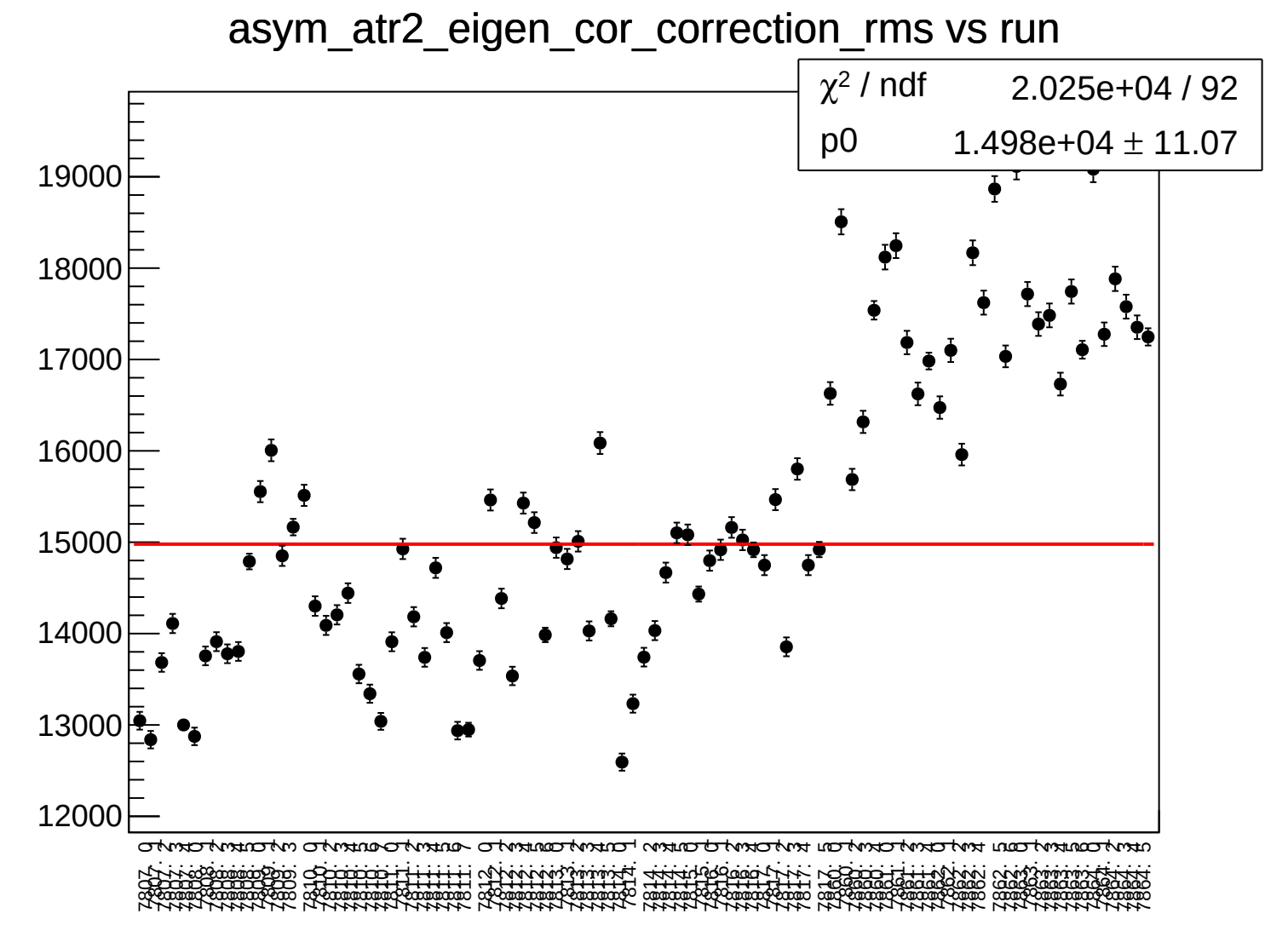

eigen_cor_asym_atr2_mean vs run
×10^3
χ² / ndf 111 / 92
p0 1834 ± 2962
100
50
0
−50
−100
pull
Entries 93
Mean −1.095e+04
Std Dev 0
2
1
0
−1
−2
−3

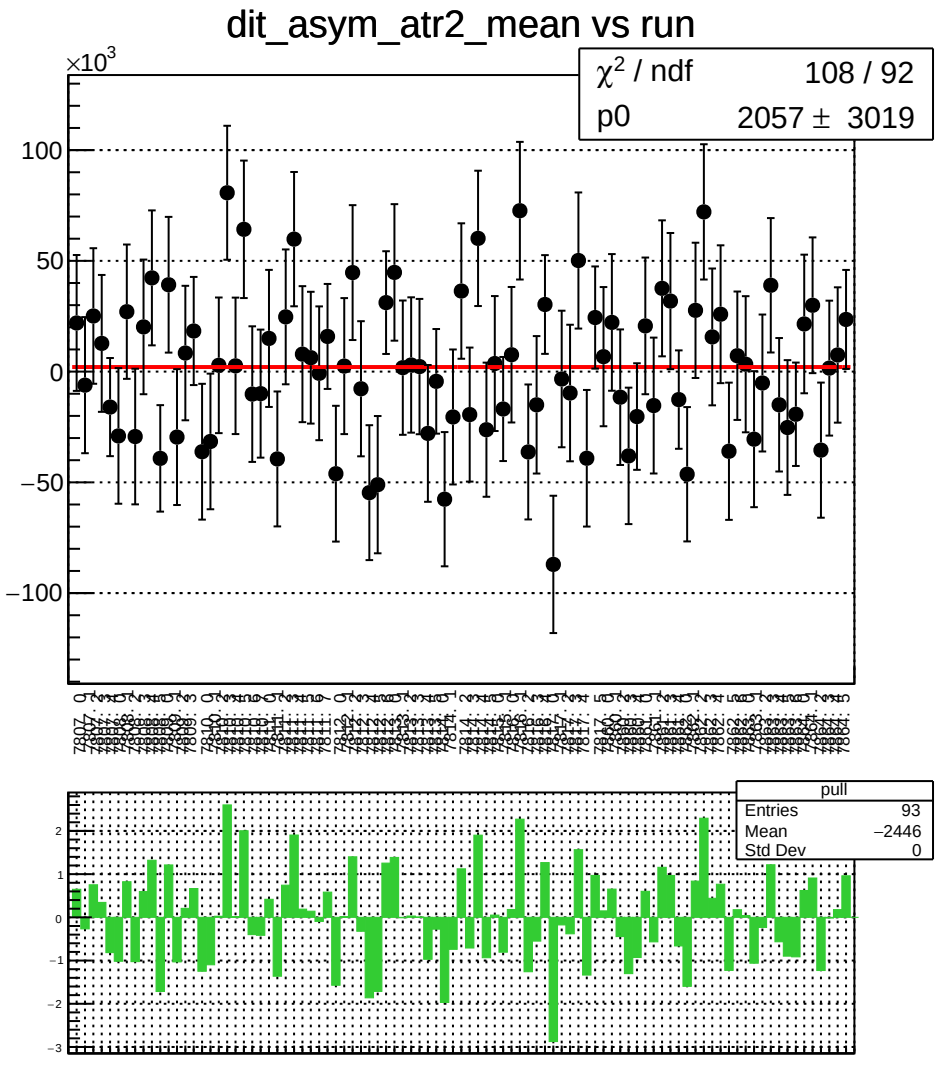

pull1D
Entries 93
Mean 0.0001075
Std Dev 1.092
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

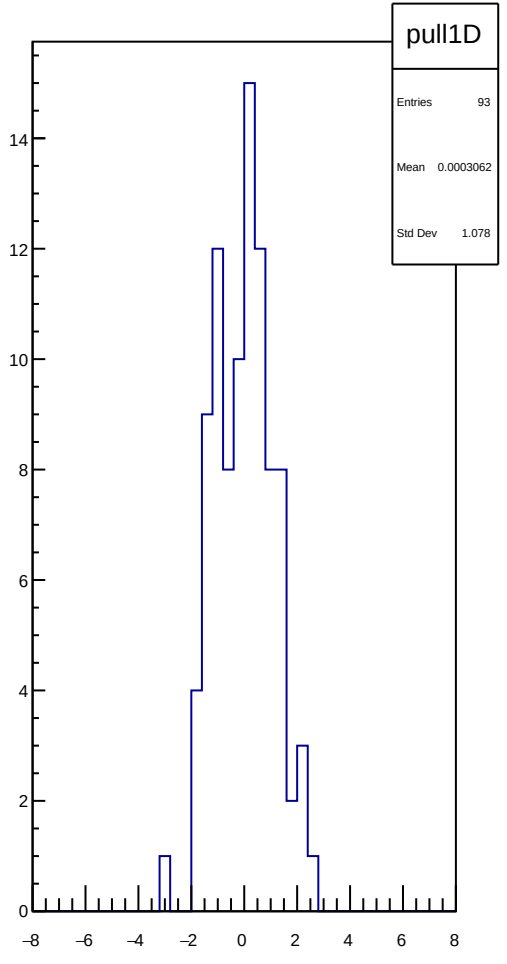

eigen_cor_asym_atr2_rms vs run
χ² / ndf 127.3 / 92
p0 2850 ± 2.094
2940
2920
2900
2880
2860
2840
2820
2800
2780
2760
2740

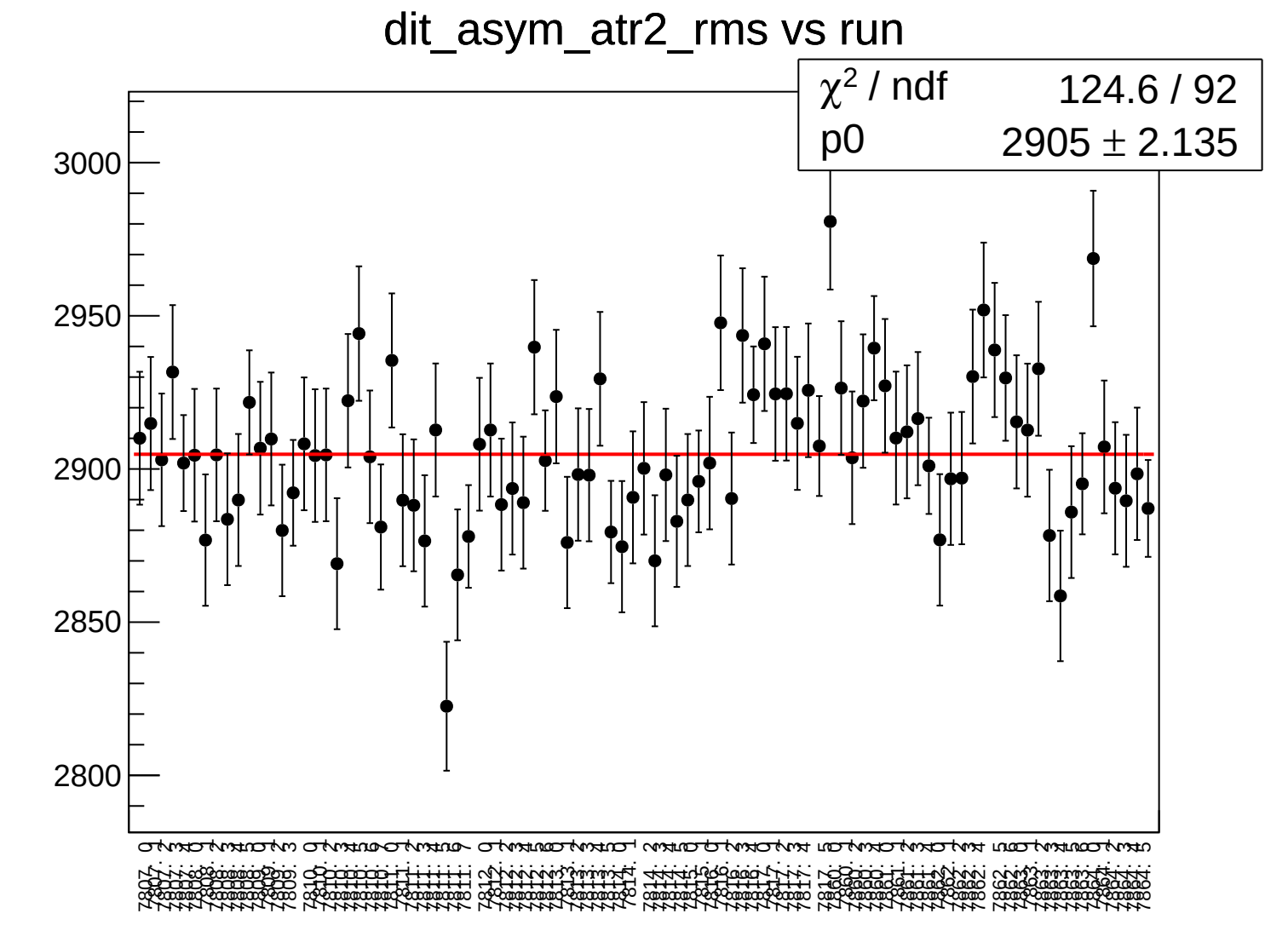

asym_atr2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 84.19 / 92
p0 1.399e+04 ± 1.565e+04
400
200
0
−200
−400
−600
pull
Entries 93
Mean −43.96
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

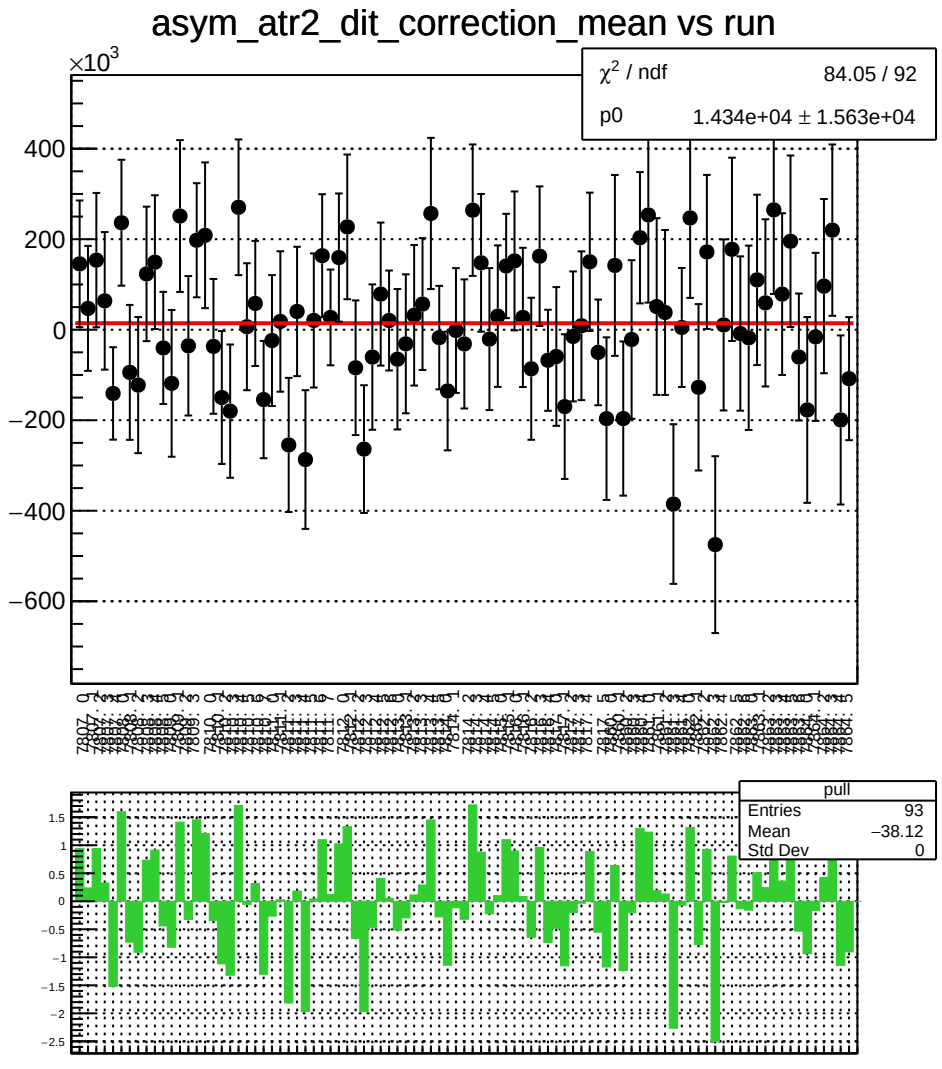

pull1D
Entries 93
Mean 0.01241
Std Dev 0.9514
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

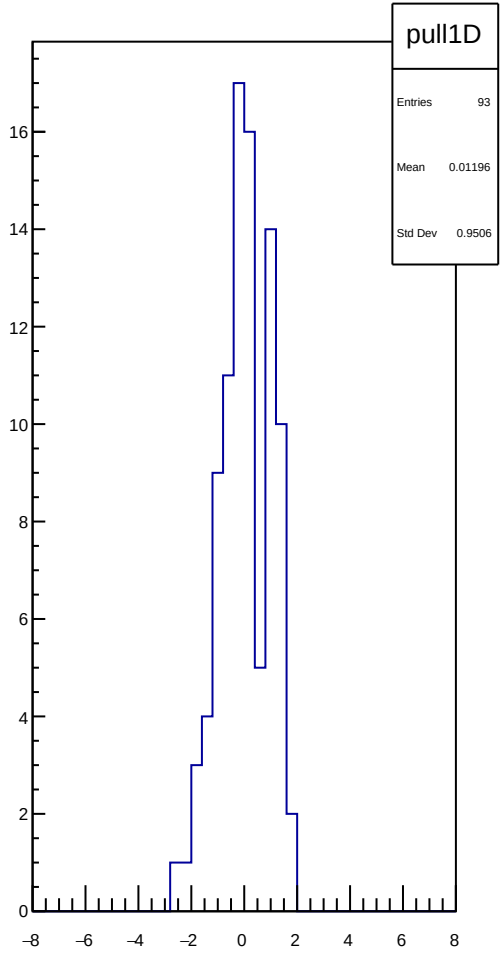

asym_atr2_eigen_cor_correction_rms vs run
χ² / ndf 2.025e+04 / 92
p0 1.498e+04 ± 11.07
19000
18000
17000
16000
15000
14000
13000
12000

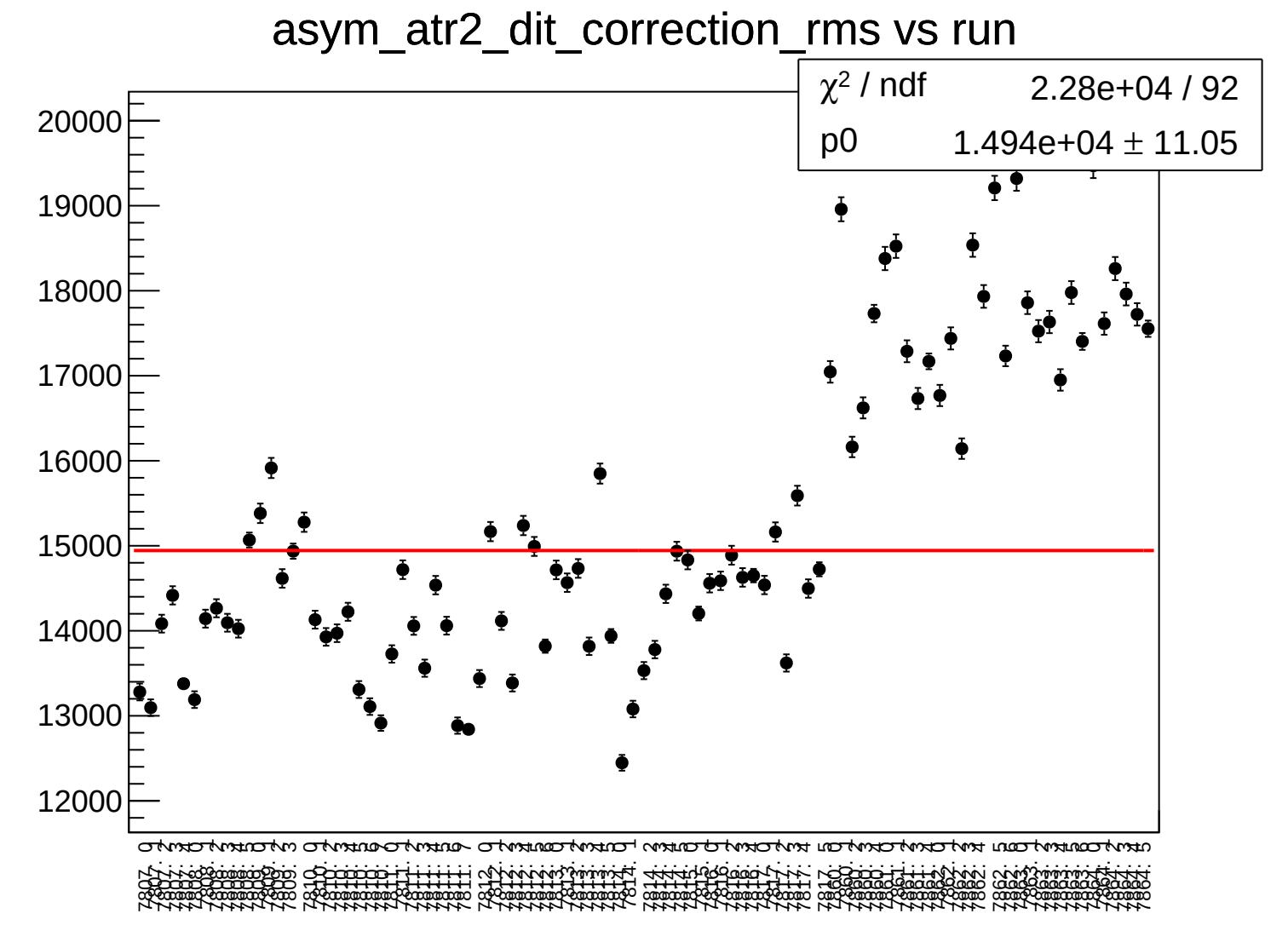

dit_asym_atr2_mean vs run
×10^3
χ^2 / ndf 108 / 92
p0 2057 ± 3019
100
50
0
−50
−100
pull
Entries 93
Mean −2446
Std Dev 0
2
1
0
−1
−2
−3

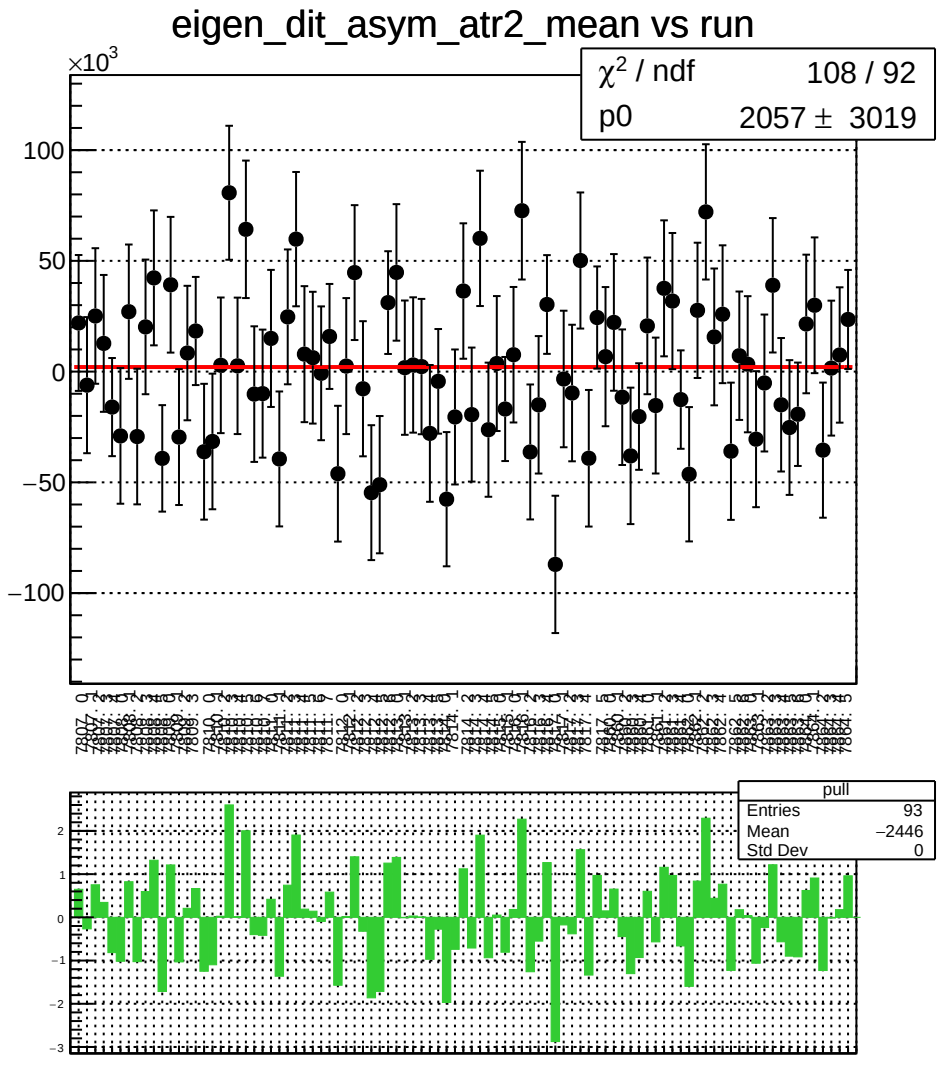

pull1D
Entries 93
Mean 0.0003062
Std Dev 1.078
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

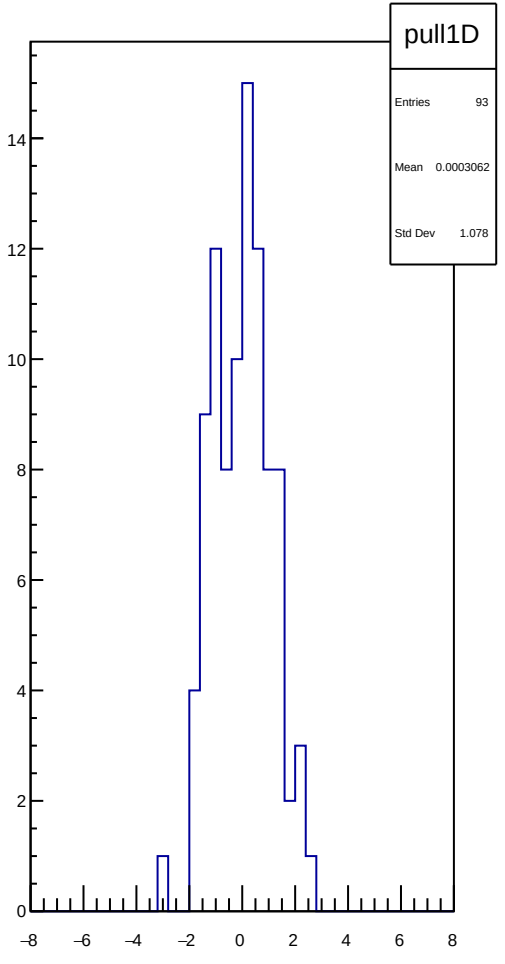

dit_asym_atr2_rms vs run
χ^2 / ndf 124.6 / 92
p0 2905 ± 2.135
3000
2950
2900
2850
2800

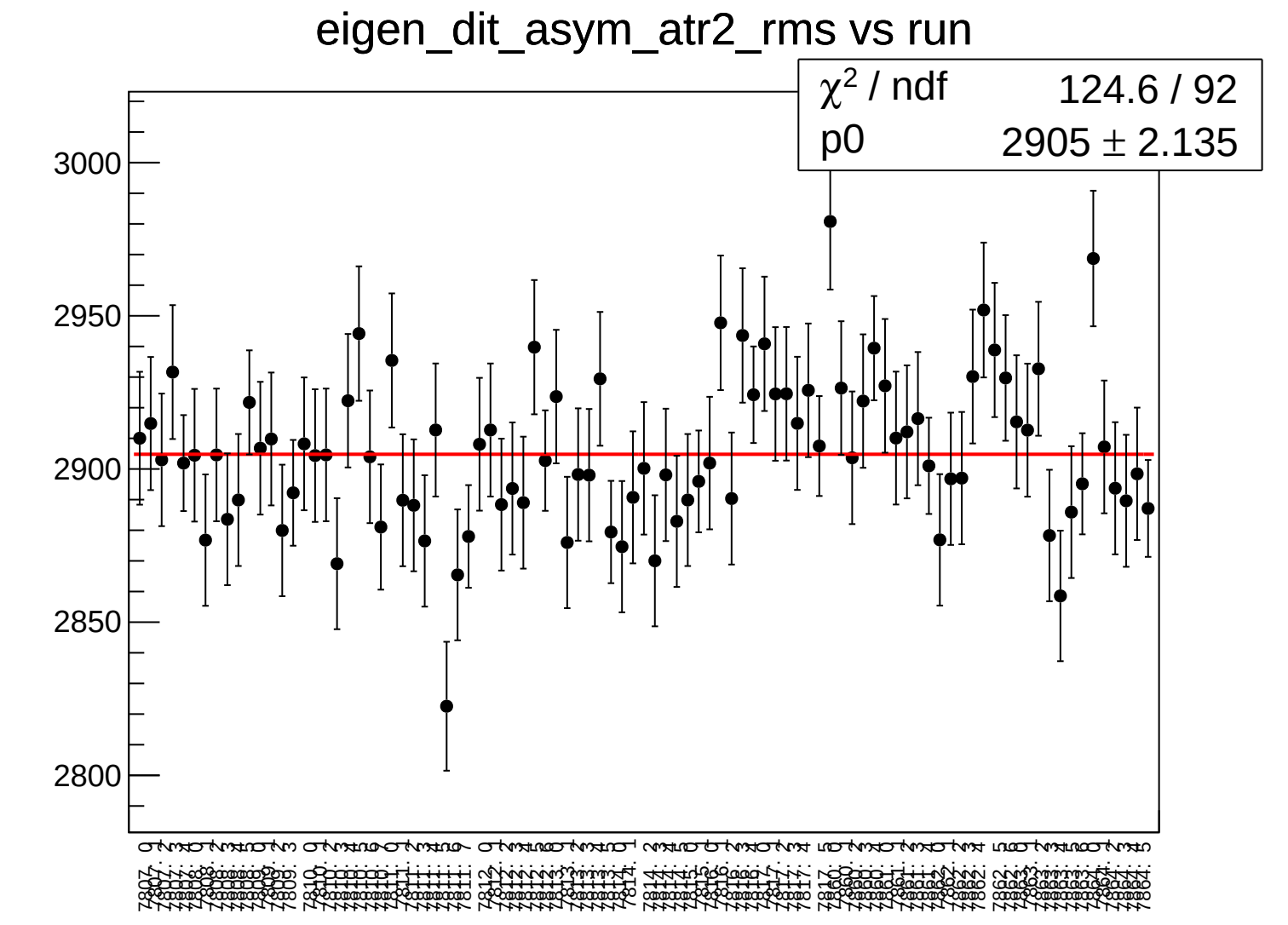

asym_atr2_dit_correction_mean vs run
×10^3
χ² / ndf 84.05 / 92
p0 1.434e+04 ± 1.563e+04
400
200
0
−200
−400
−600
pull
Entries 93
Mean −38.12
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

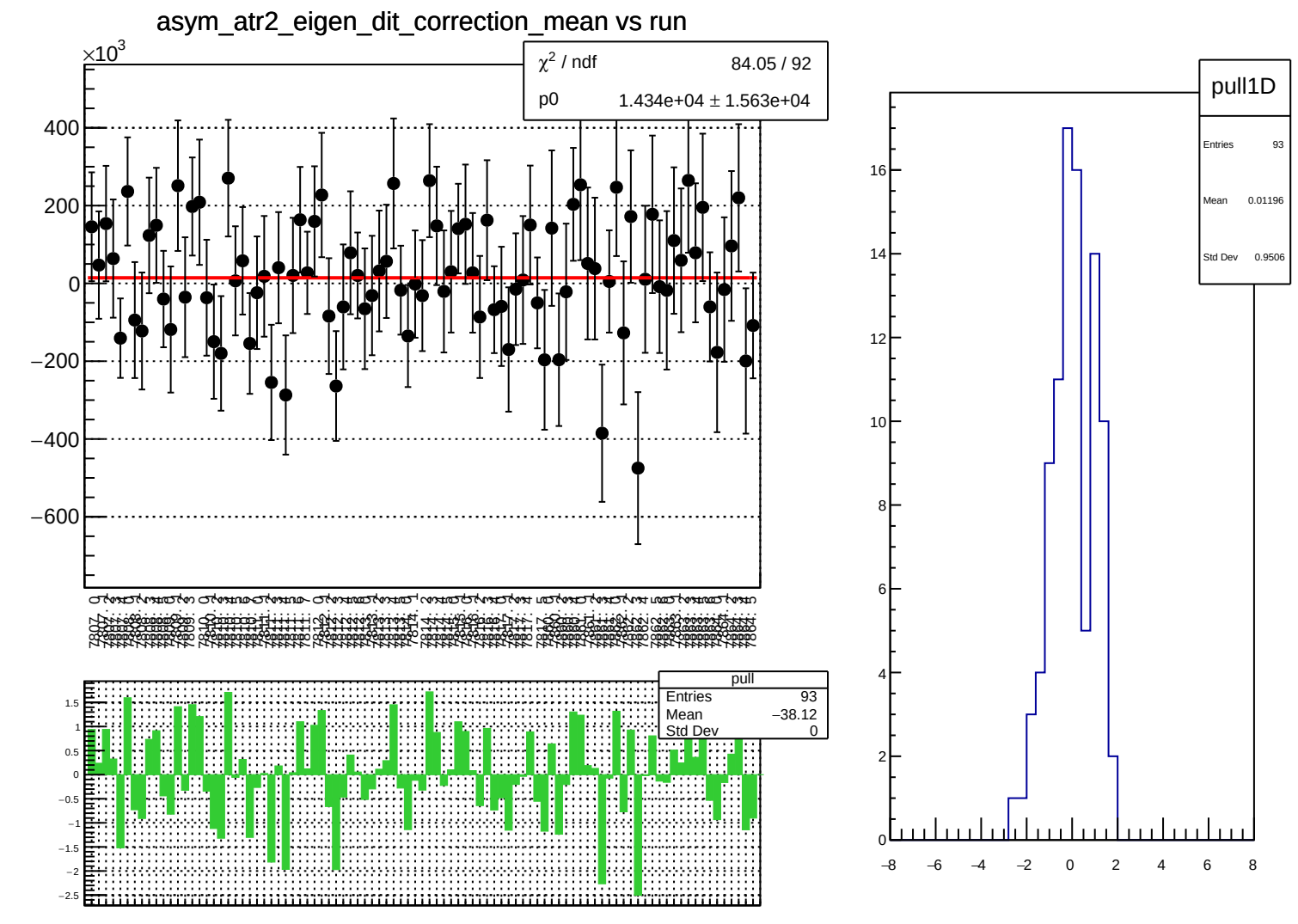

pull1D
Entries 93
Mean 0.01196
Std Dev 0.9506
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

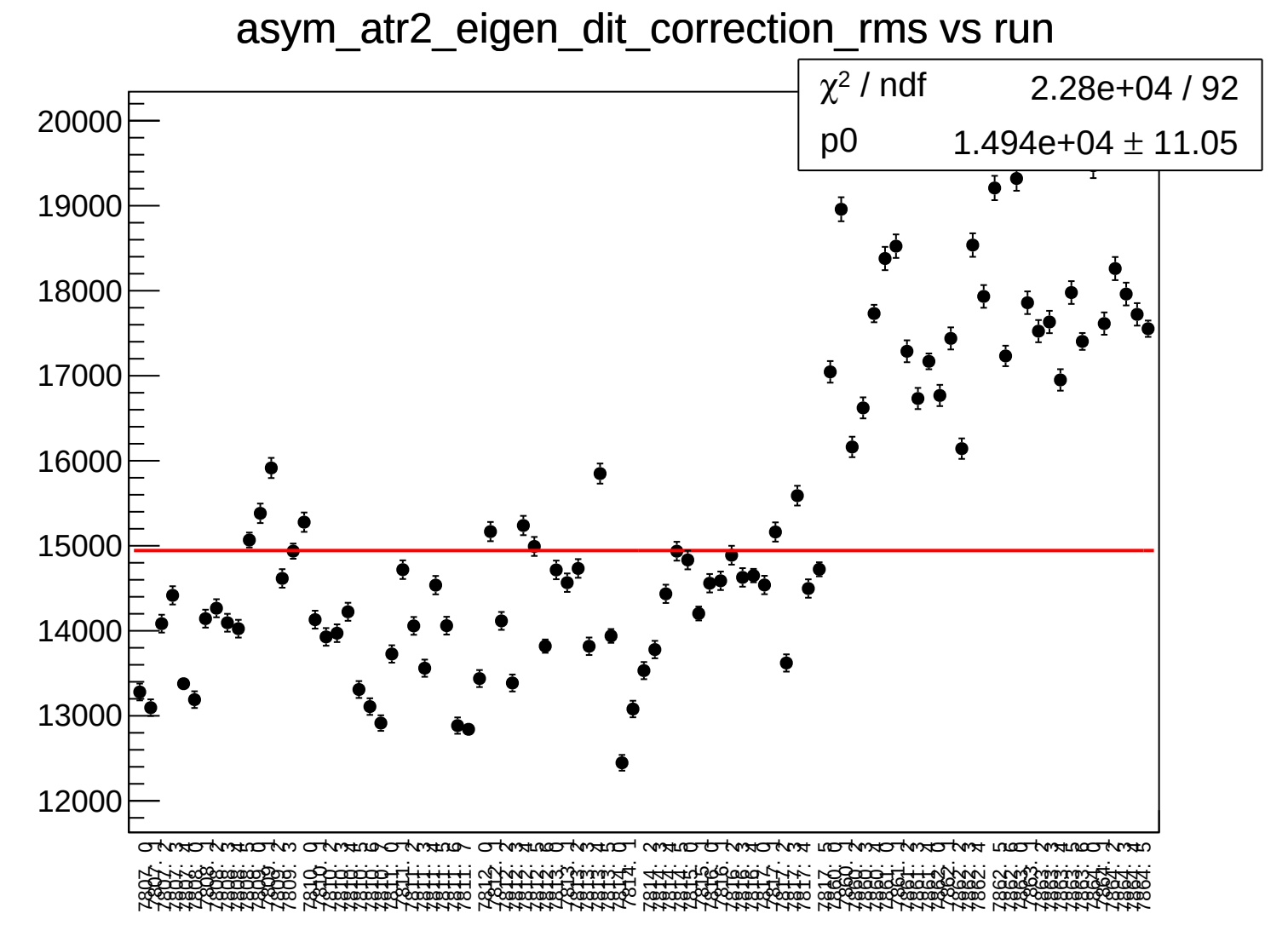

asym_atr2_dit_correction_rms vs run
χ² / ndf 2.28e+04 / 92
p0 1.494e+04 ± 11.05
20000
19000
18000
17000
16000
15000
14000
13000
12000

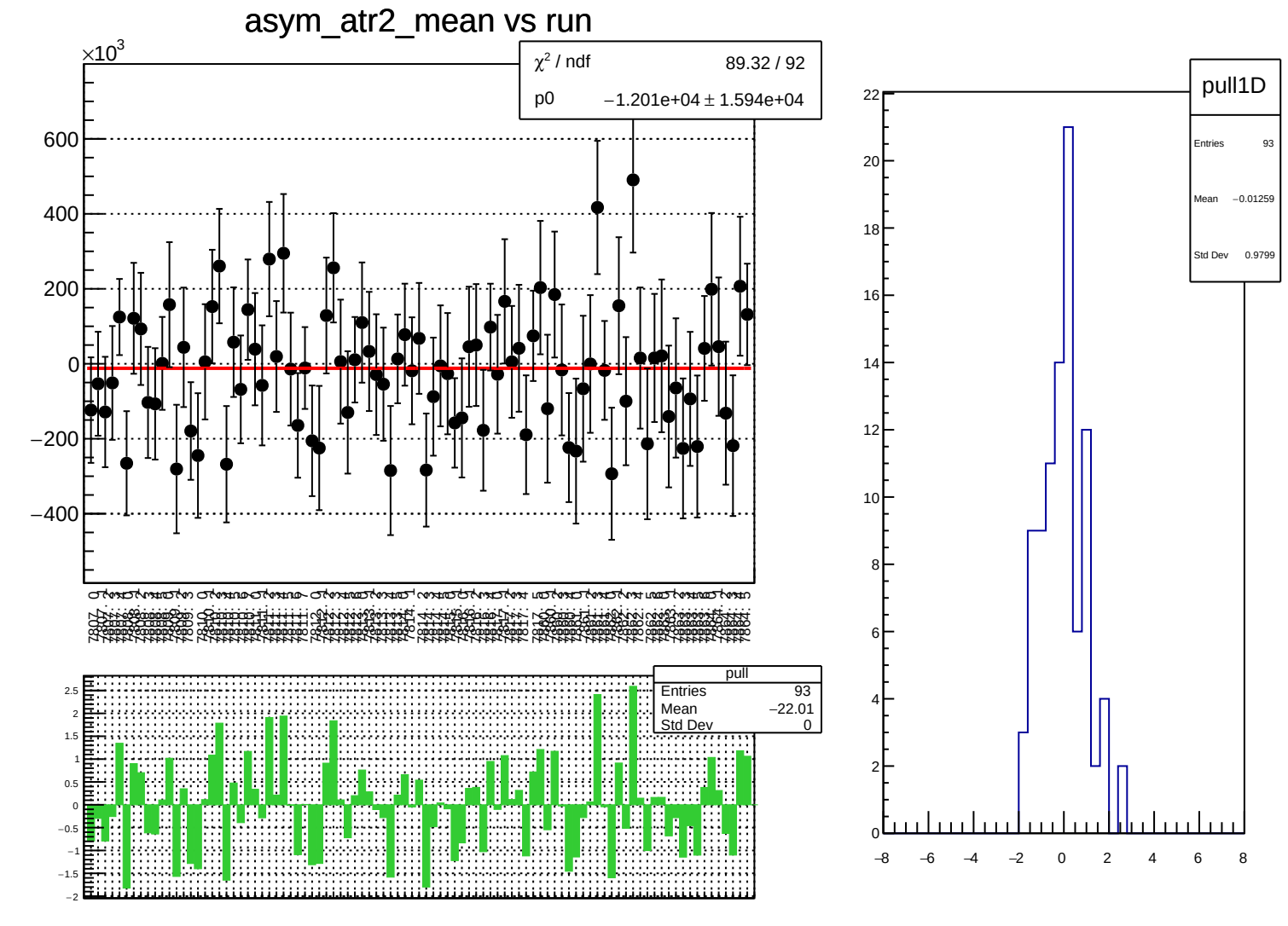

eigen_dit_asym_atr2_mean vs run
×10^3
χ² / ndf 108 / 92
p0 2057 ± 3019
100
50
0
−50
−100
pull
Entries 93
Mean −2446
Std Dev 0
2
1
0
−1
−2
−3

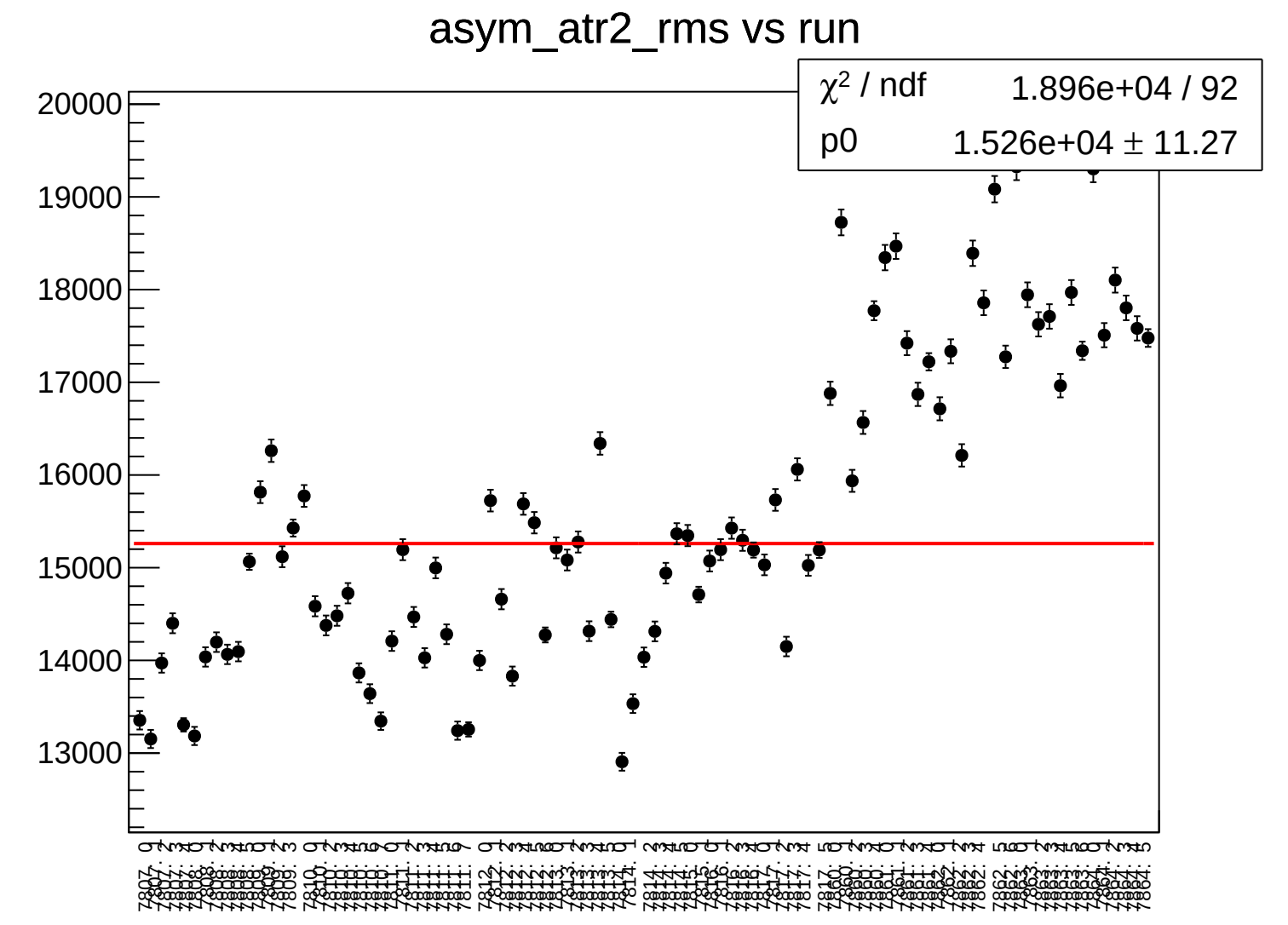

pull1D
Entries 93
Mean 0.0003062
Std Dev 1.078
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

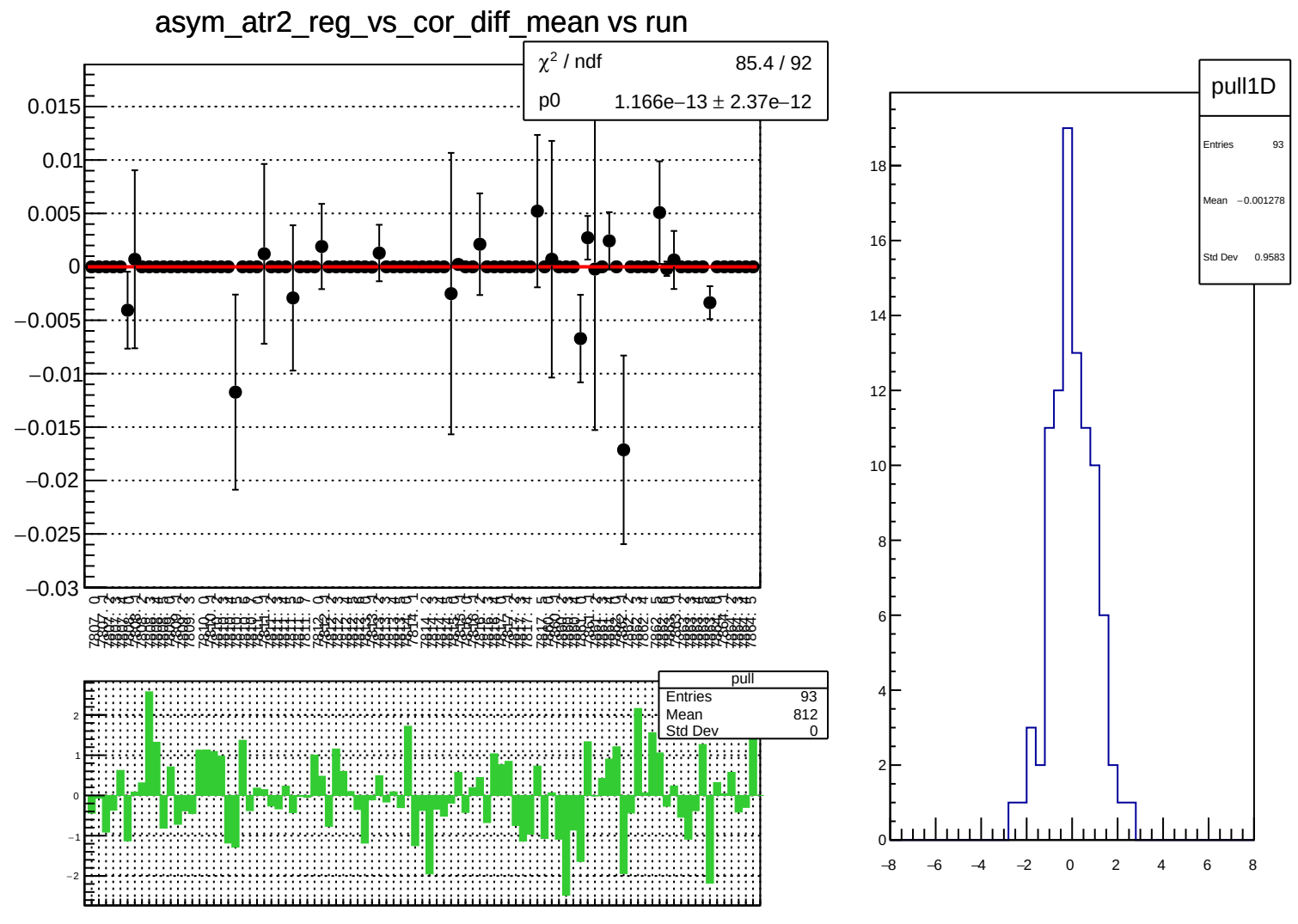

eigen_dit_asym_atr2_rms vs run
χ² / ndf 124.6 / 92
p0 2905 ± 2.135
3000
2950
2900
2850
2800

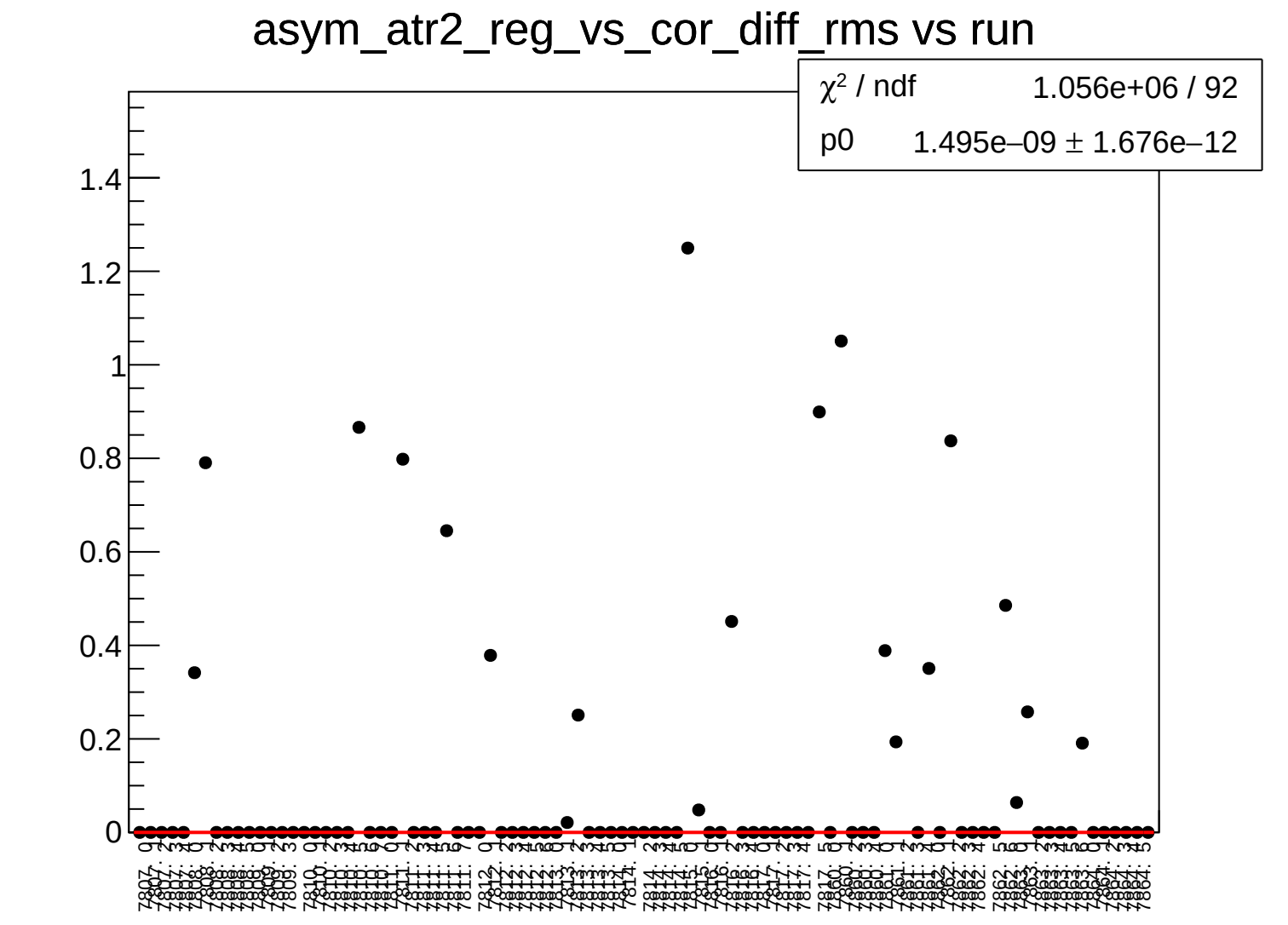

asym_atr2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 84.05 / 92
p0 1.434e+04 ± 1.563e+04
400
200
0
−200
−400
−600
pull
Entries 93
Mean −38.12
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 93
Mean 0.01196
Std Dev 0.9506
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

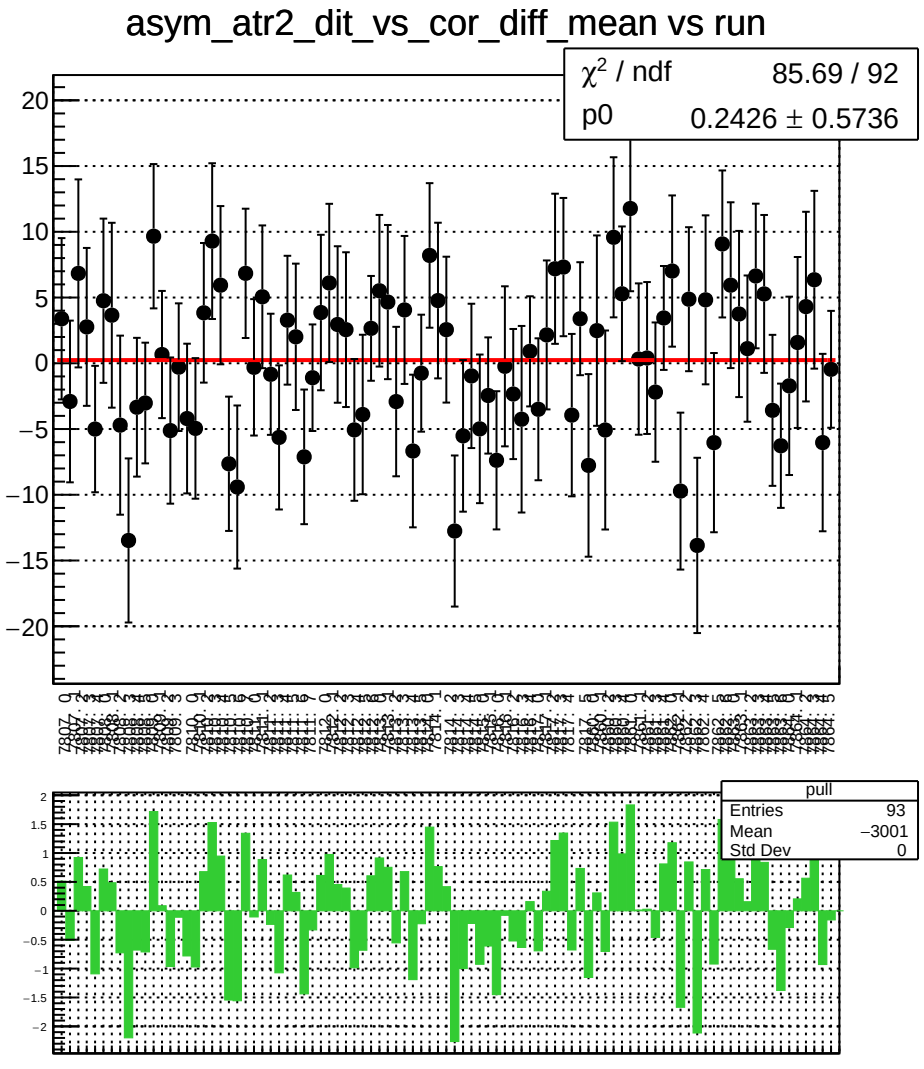

asym_atr2_eigen_dit_correction_rms vs run
χ² / ndf 2.28e+04 / 92
p0 1.494e+04 ± 11.05
20000
19000
18000
17000
16000
15000
14000
13000
12000

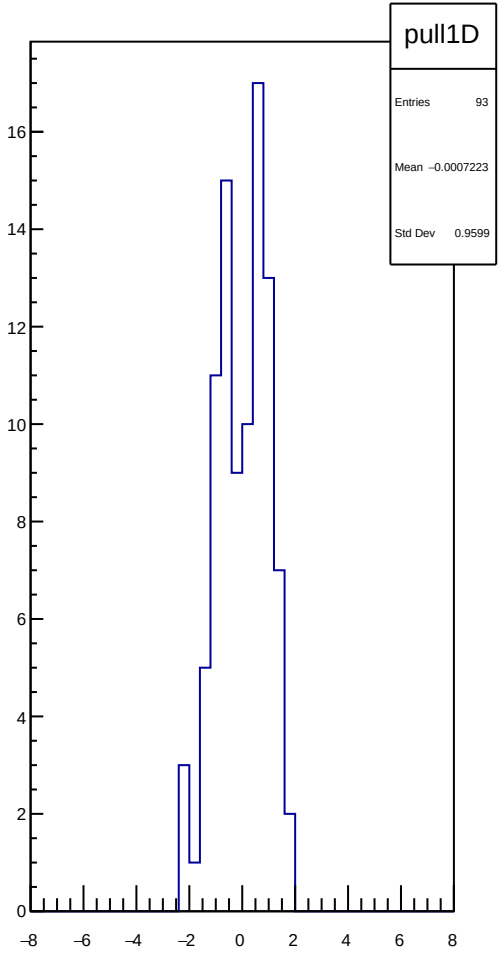

asym_atr2_mean vs run
×10^3
χ² / ndf 89.32 / 92
p0 −1.201e+04 ± 1.594e+04
600
400
200
0
−200
−400
pull
Entries 93
Mean −22.01
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean −0.01259
Std Dev 0.9799
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

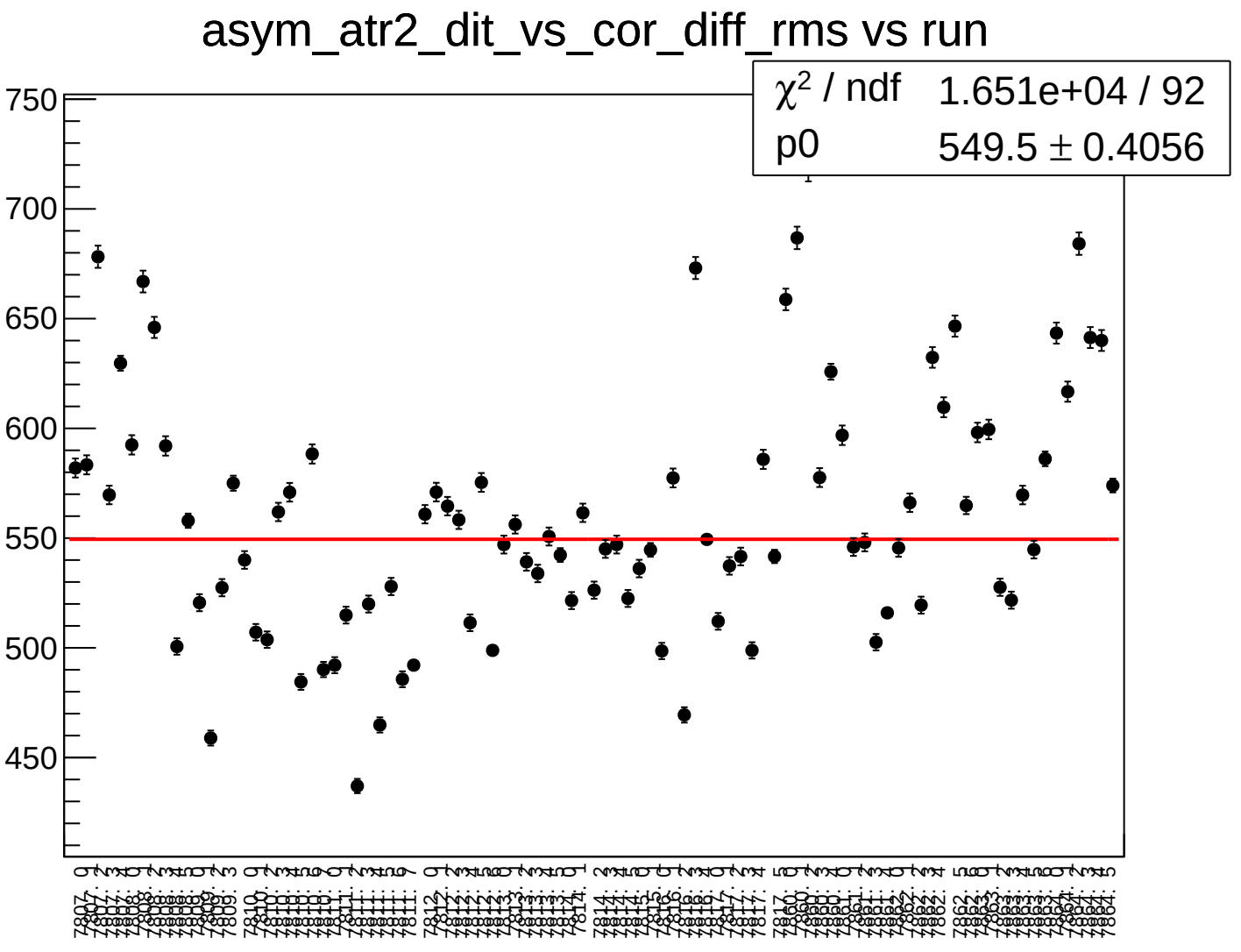

asym_atr2_rms vs run
χ² / ndf 1.896e+04 / 92
p0 1.526e+04 ± 11.27
20000
19000
18000
17000
16000
15000
14000
13000

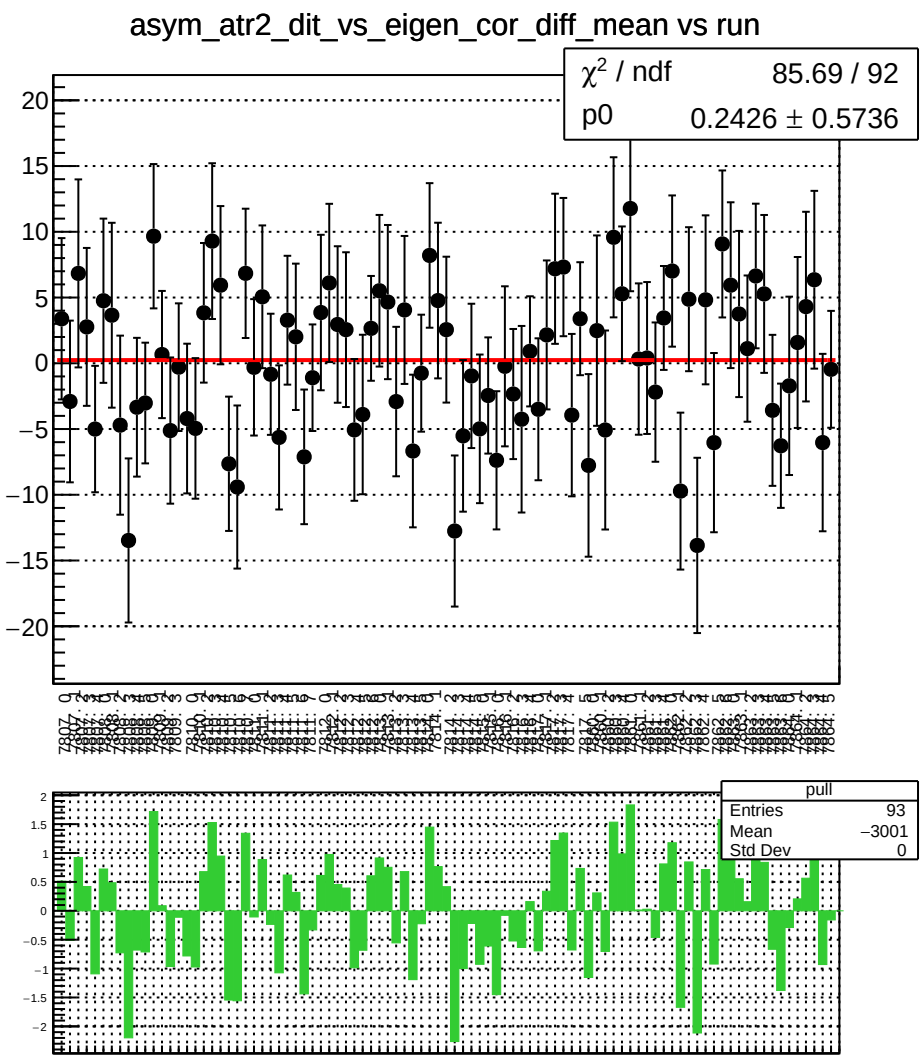

asym_atr2_reg_vs_cor_diff_mean vs run
χ² / ndf 85.4 / 92
p0 1.166e−13 ± 2.37e−12
pull
Entries 93
Mean 812
Std Dev 0
pull1D
Entries 93
Mean −0.001278
Std Dev 0.9583

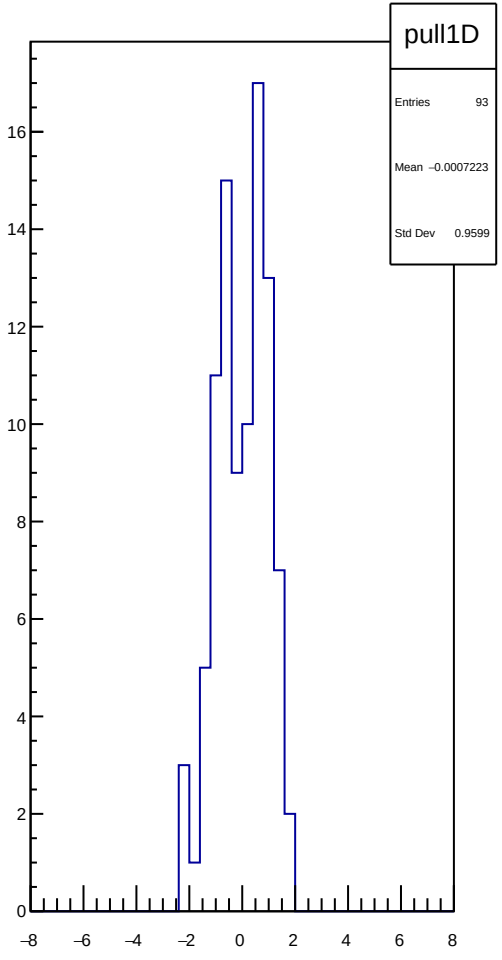

asym_atr2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.056e+06 / 92
p0 1.495e−09 ± 1.676e−12
1.4
1.2
1
0.8
0.6
0.4
0.2
0

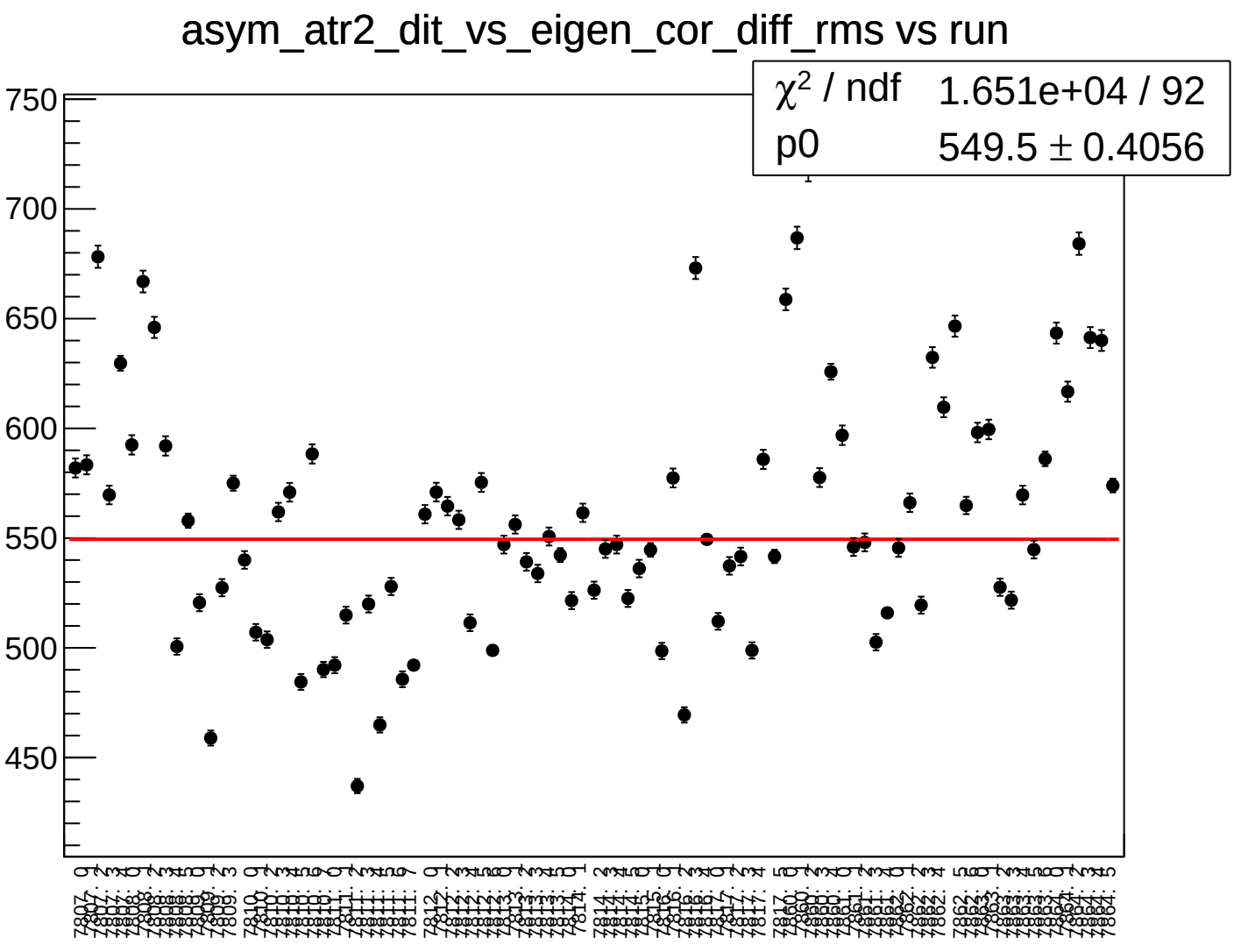

asym_atr2_dit_vs_cor_diff_mean vs run
χ² / ndf 85.69 / 92
p0 0.2426 ± 0.5736
pull
Entries 93
Mean −3001
Std Dev 0

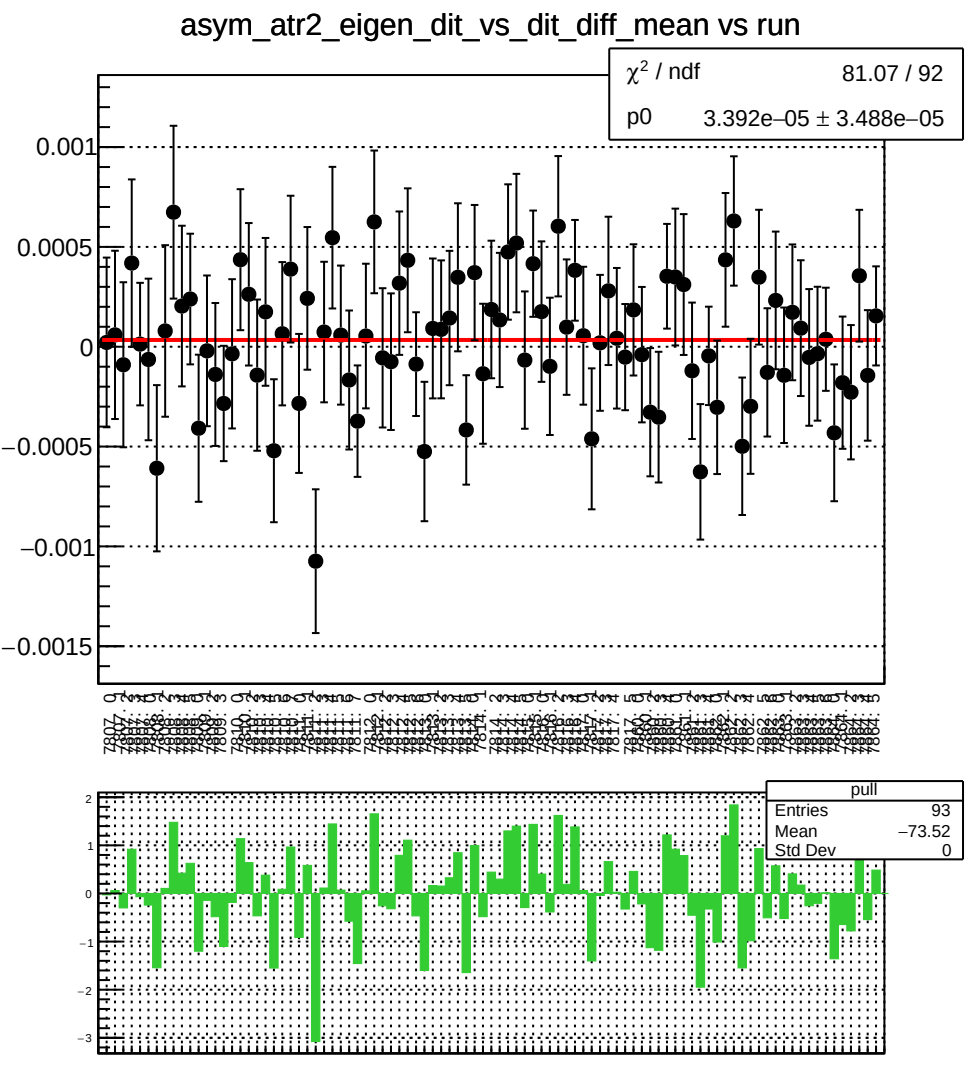

pull1D
Entries 93
Mean −0.0007223
Std Dev 0.9599

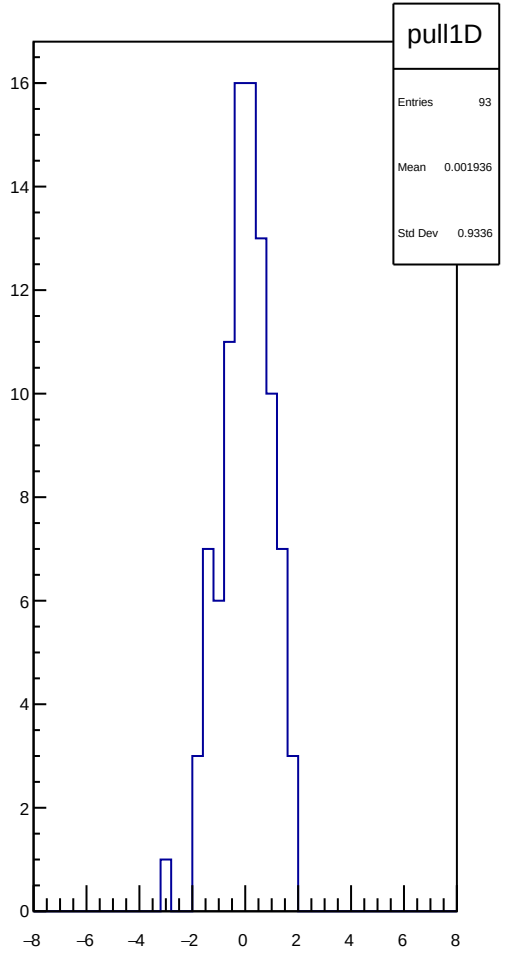

asym_atr2_dit_vs_cor_diff_rms vs run
χ² / ndf 1.651e+04 / 92
p0 549.5 ± 0.4056
750
700
650
600
550
500
450

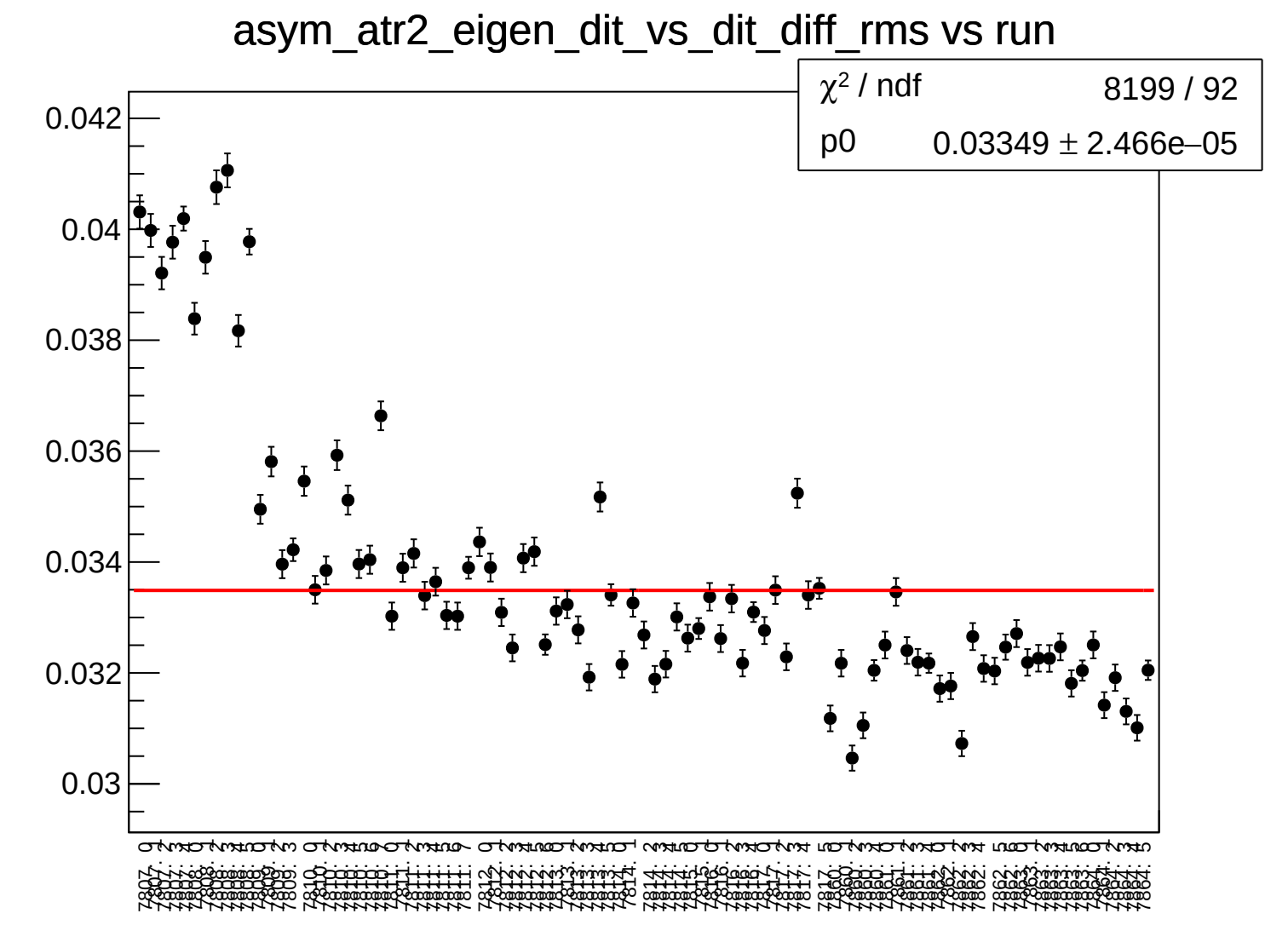

asym_atr2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.69 / 92
p0 0.2426 ± 0.5736
pull
Entries 93
Mean −3001
Std Dev 0

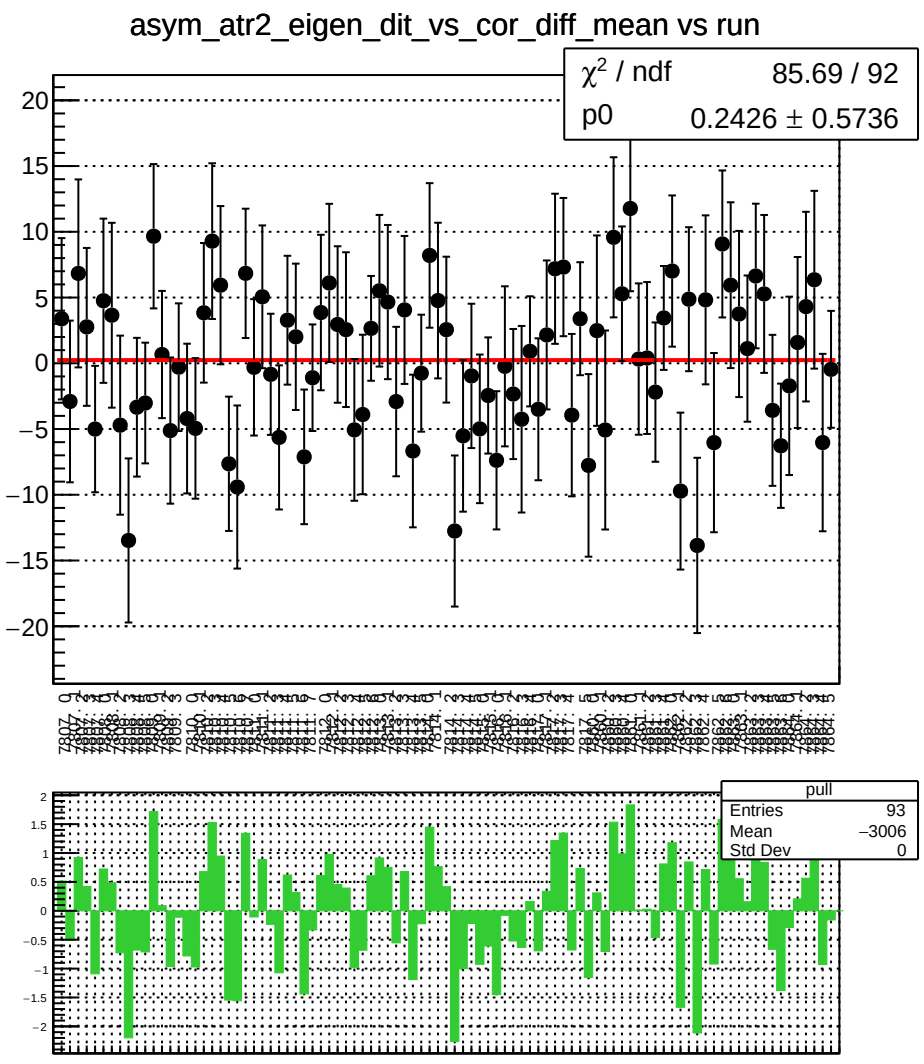

pull1D
Entries 93
Mean −0.0007223
Std Dev 0.9599

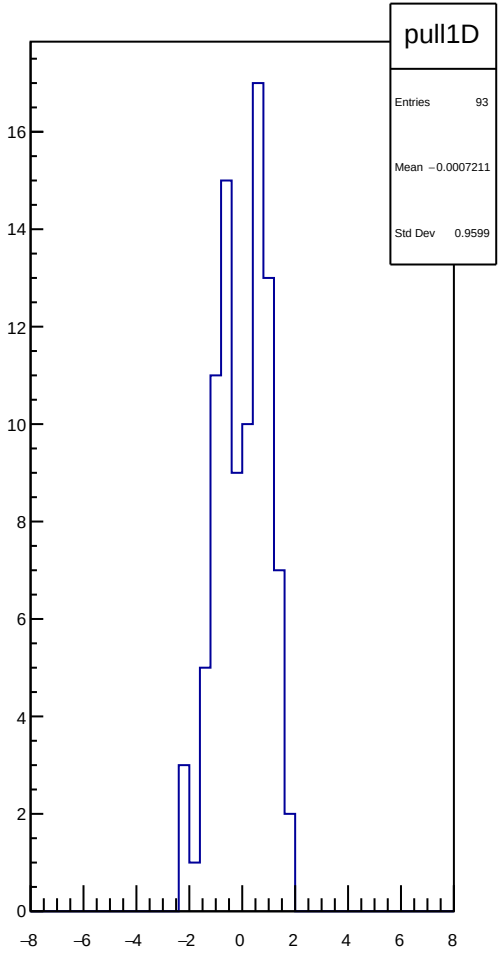

asym_atr2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.651e+04 / 92
p0 549.5 ± 0.4056
750
700
650
600
550
500
450

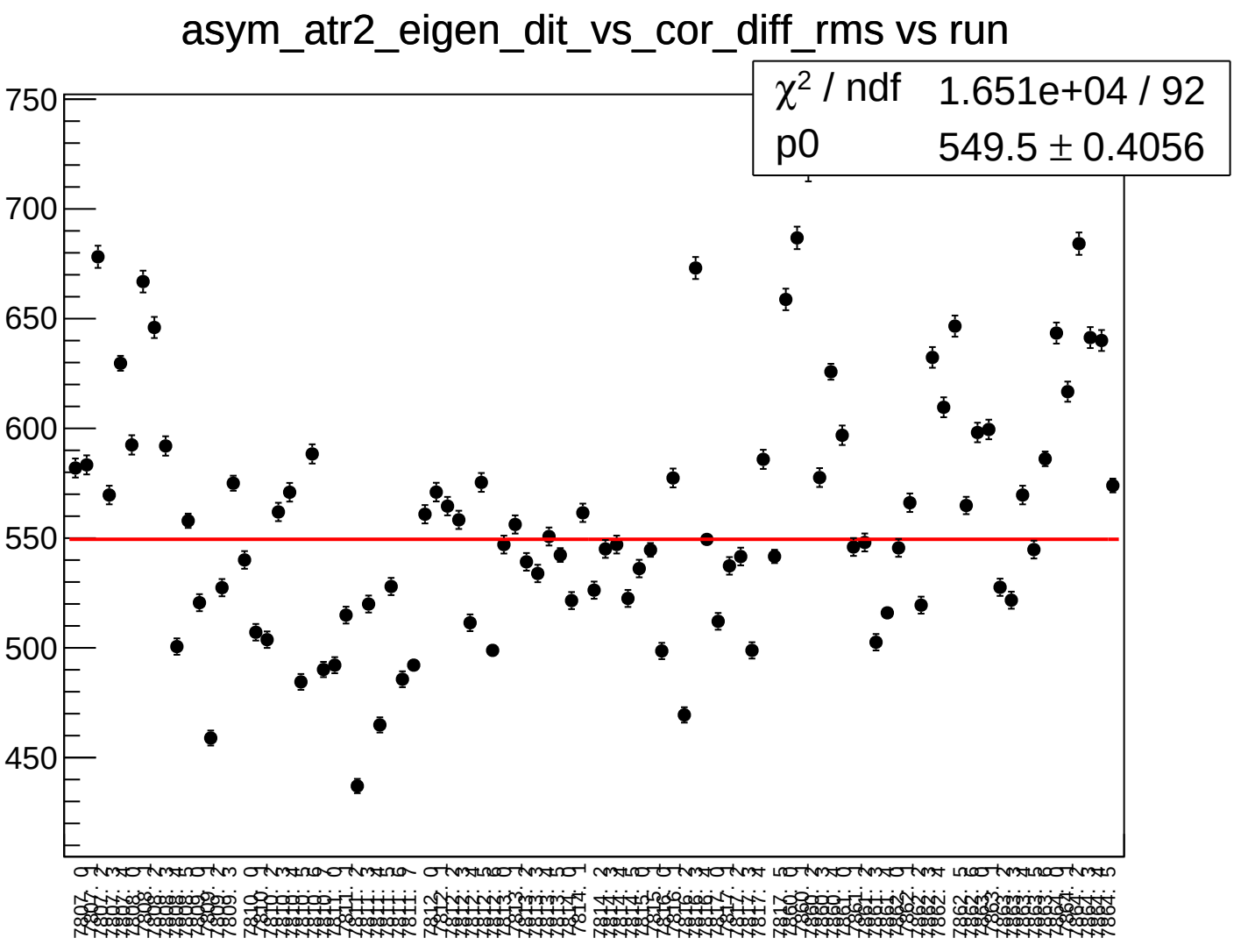

asym_atr2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 81.07 / 92
p0 3.392e−05 ± 3.488e−05
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 93
Mean −73.52
Std Dev 0
2
1
0
−1
−2
−3

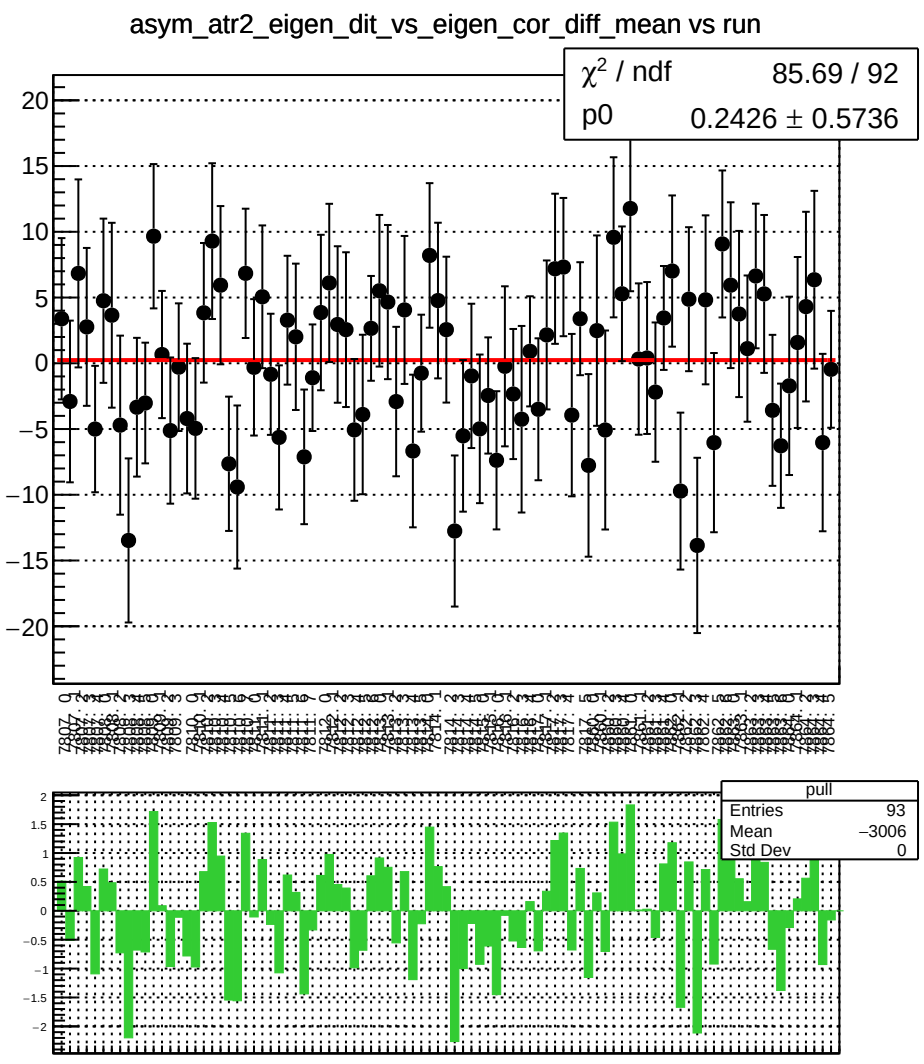

pull1D
Entries 93
Mean 0.001936
Std Dev 0.9336
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

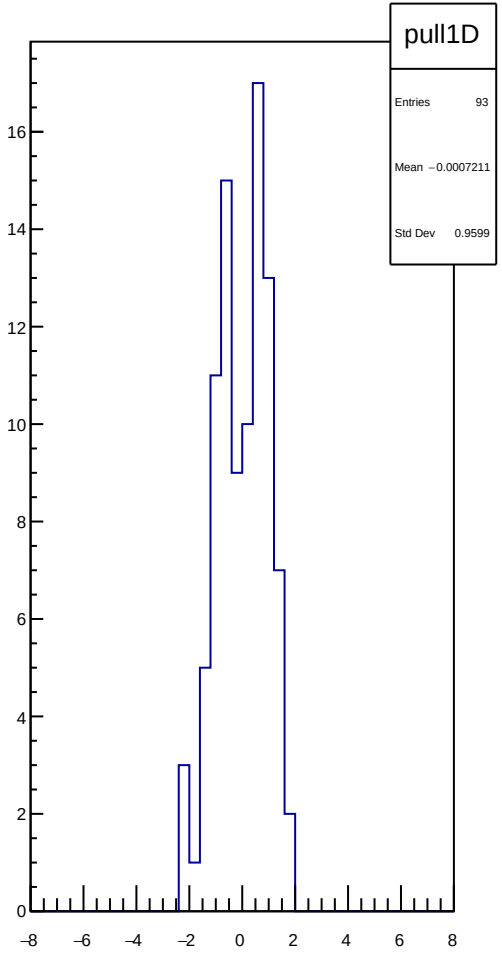

asym_atr2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8199 / 92
p0 0.03349 ± 2.466e–05
0.042
0.04
0.038
0.036
0.034
0.032
0.03

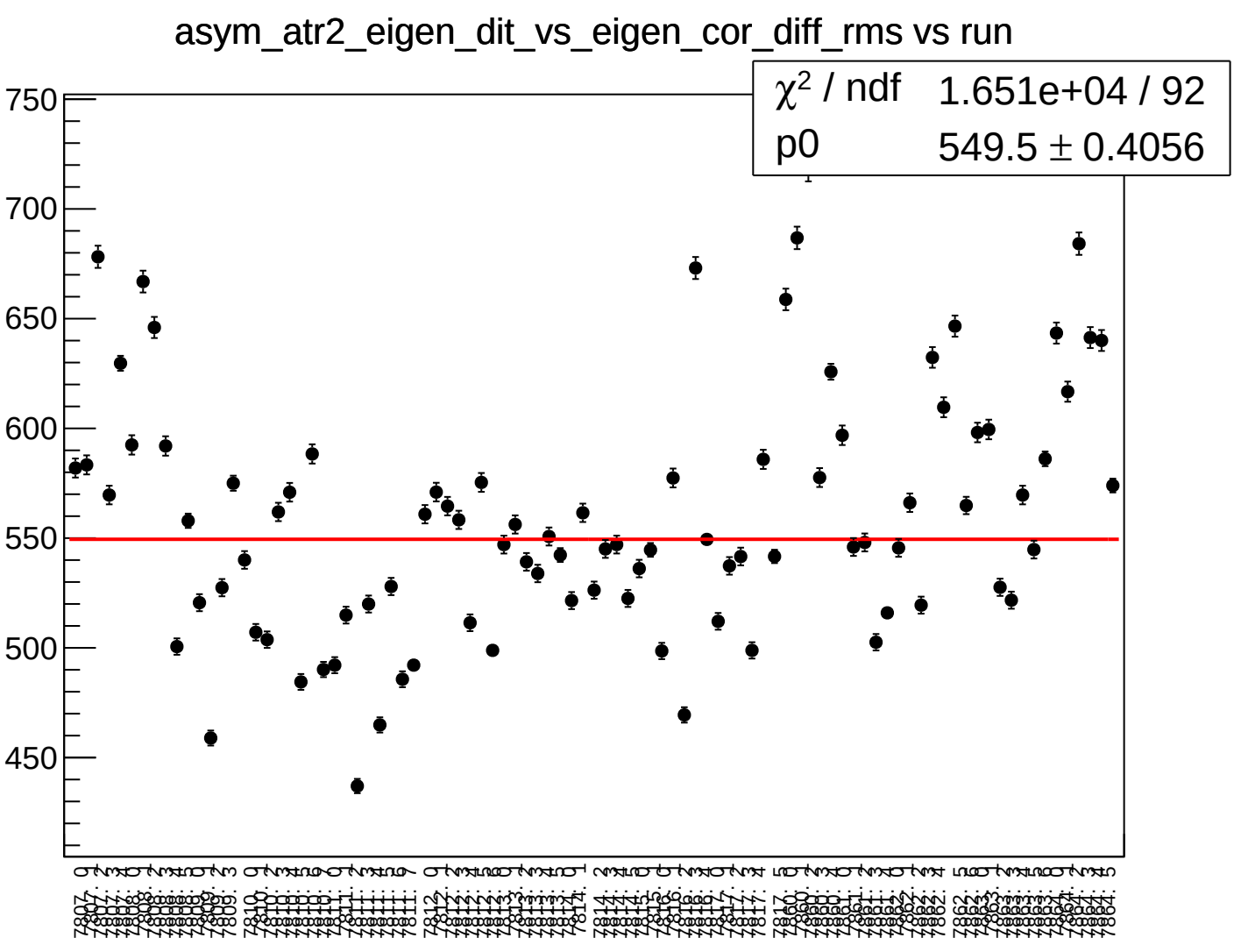

asym_atr2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.69 / 92
p0 0.2426 ± 0.5736
pull
Entries 93
Mean −3006
Std Dev 0

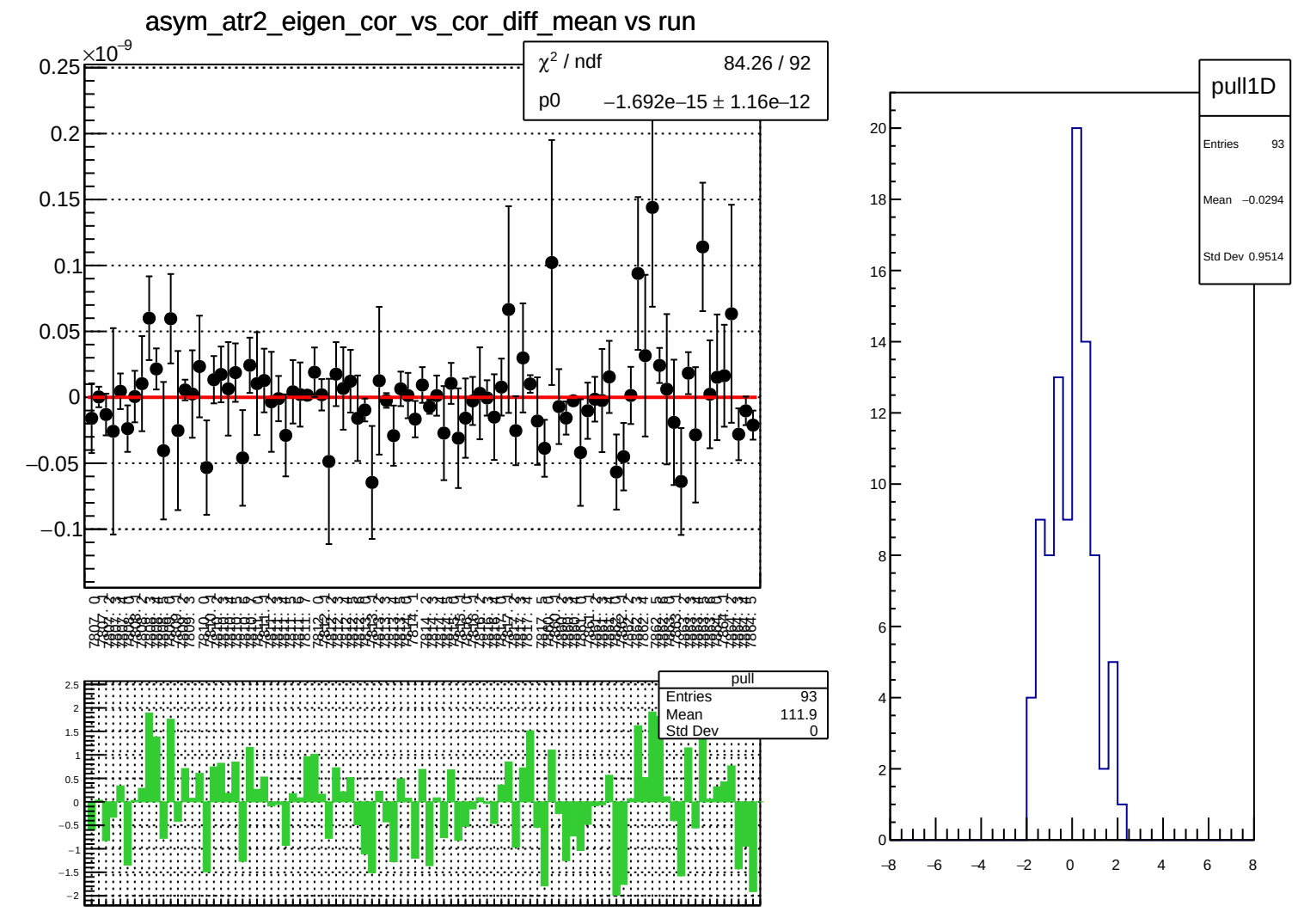

pull1D
Entries 93
Mean −0.0007211
Std Dev 0.9599


asym_atr2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.651e+04 / 92
p0 549.5 ± 0.4056
750
700
650
600
550
500
450

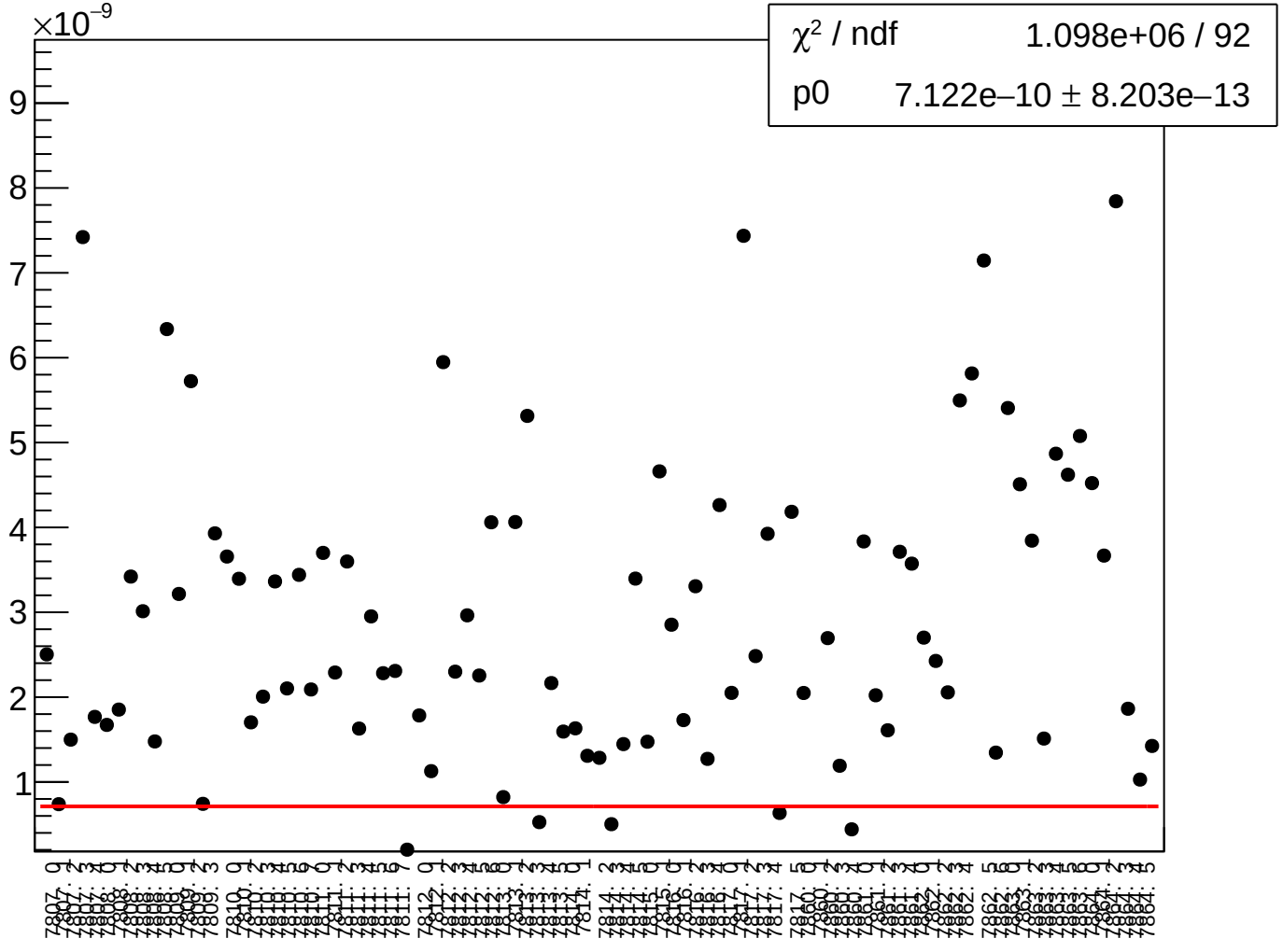

asym_atr2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.69 / 92
p0 0.2426 ± 0.5736
pull
Entries 93
Mean −3006
Std Dev 0

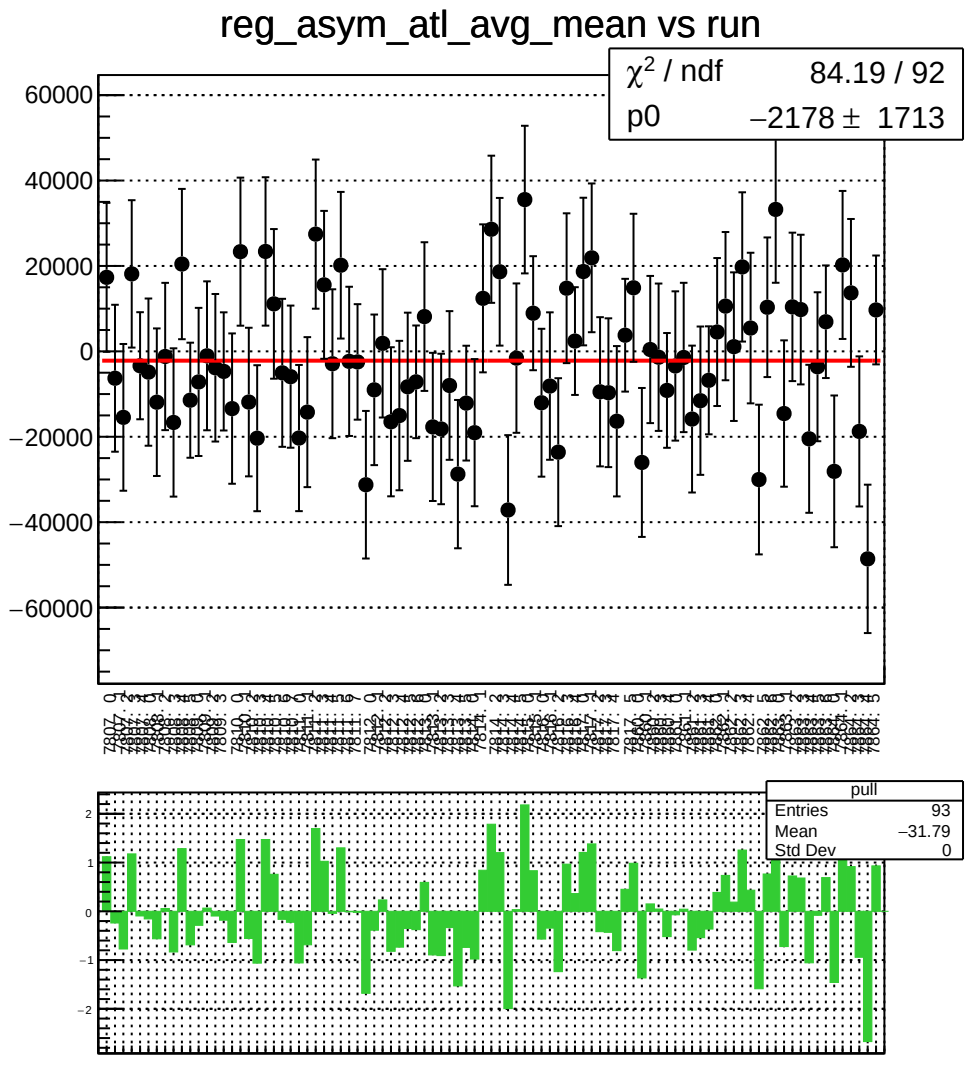

pull1D
Entries 93
Mean −0.0007211
Std Dev 0.9599

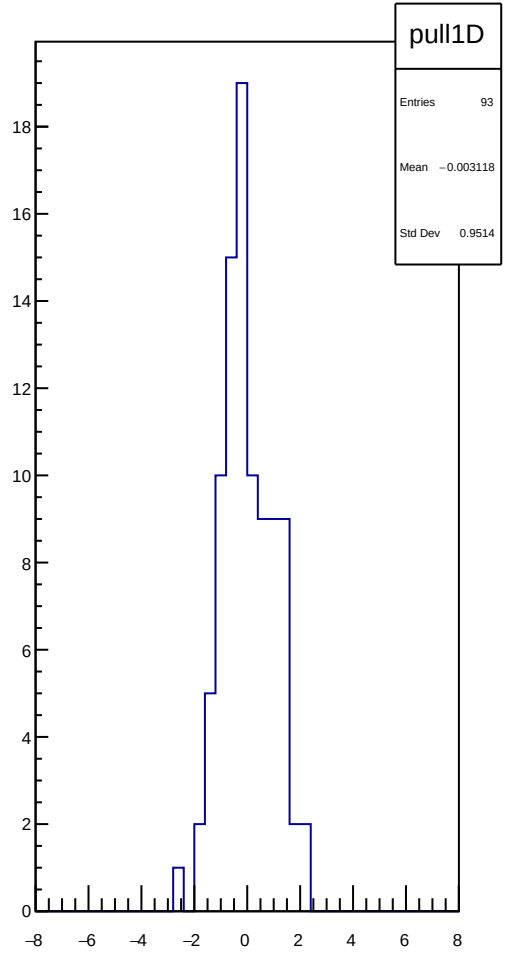

asym_atr2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.651e+04 / 92
p0 549.5 ± 0.4056
750
700
650
600
550
500
450

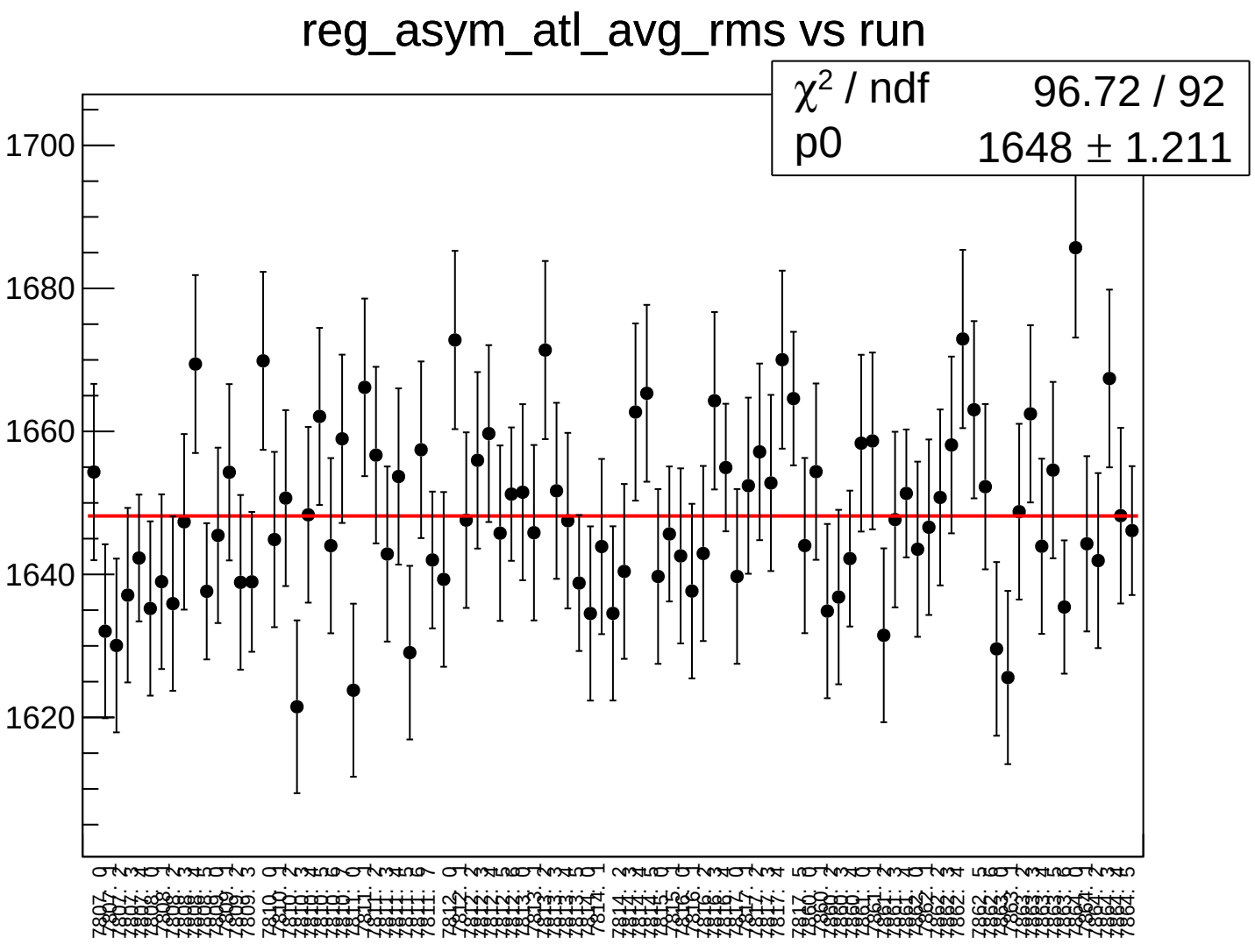

asym_atr2_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 84.26 / 92
p0 −1.692e−15 ± 1.16e−12
pull
Entries 93
Mean 111.9
Std Dev 0
pull1D
Entries 93
Mean −0.0294
Std Dev 0.9514

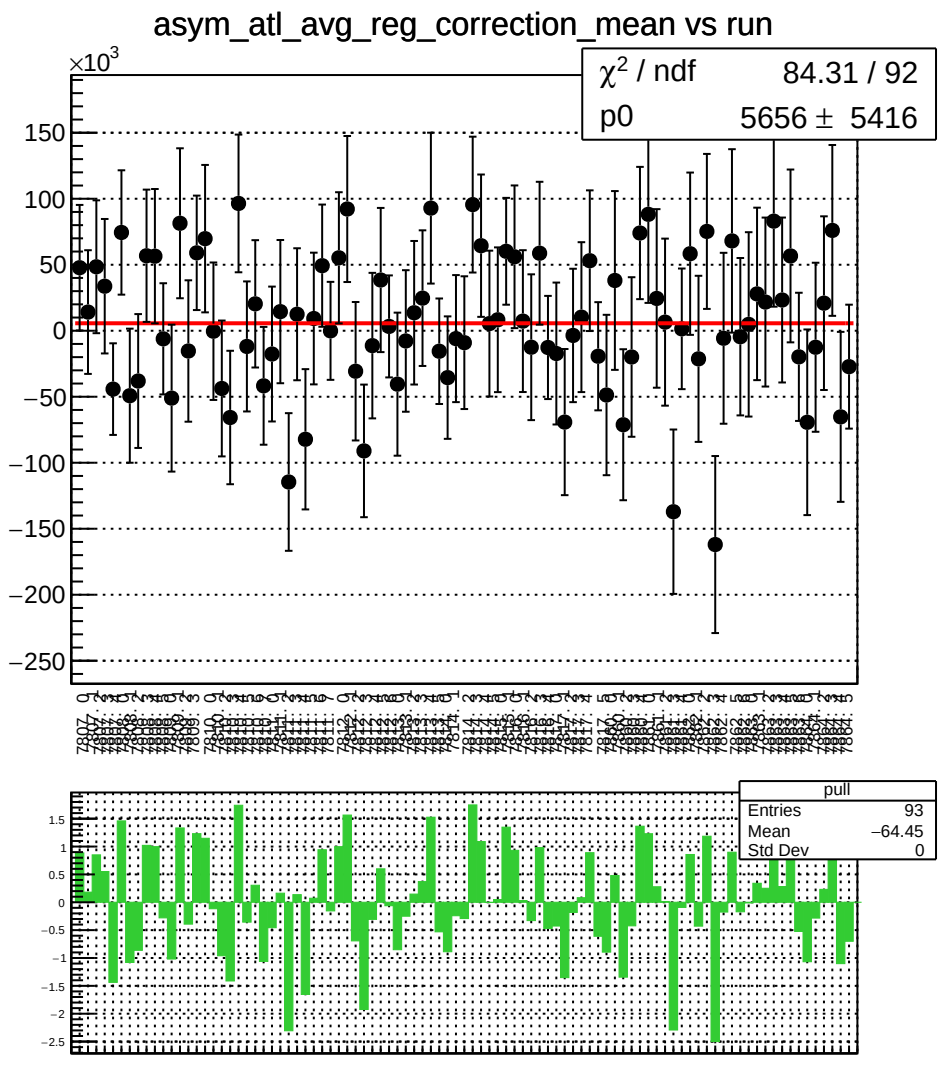
asym_atr2_eigen_cor_vs_cor_diff_rms vs run

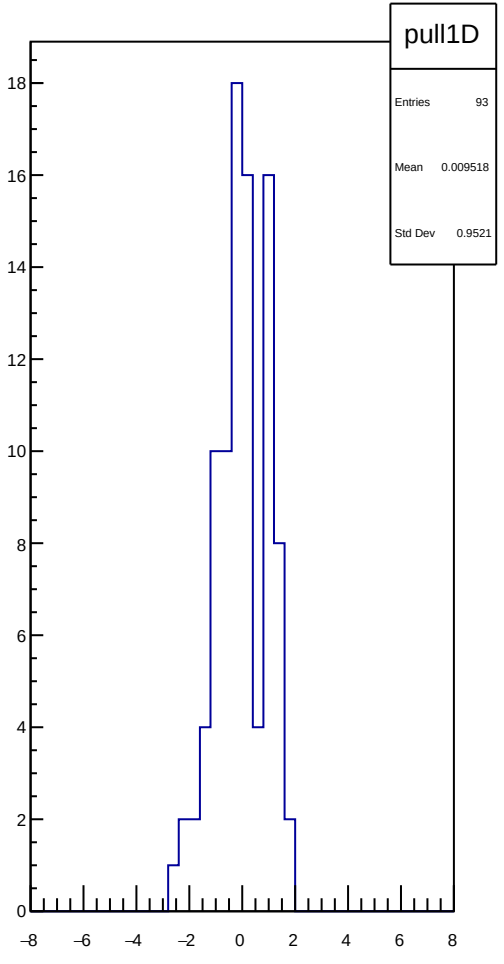


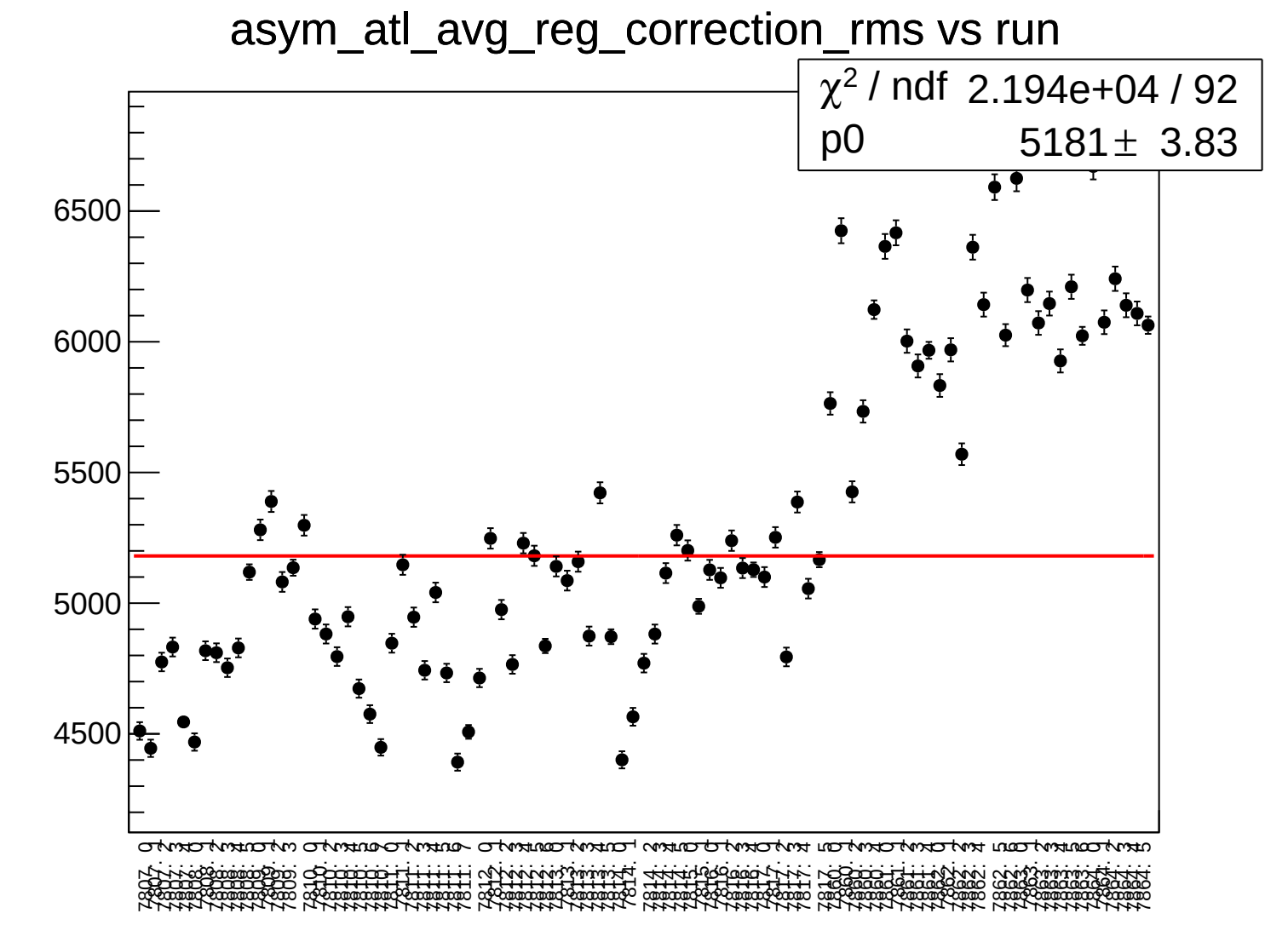

reg_asym_atl_avg_mean vs run
χ² / ndf 84.19 / 92
p0 −2178 ± 1713
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −31.79
Std Dev 0
2
1
0
−1
−2

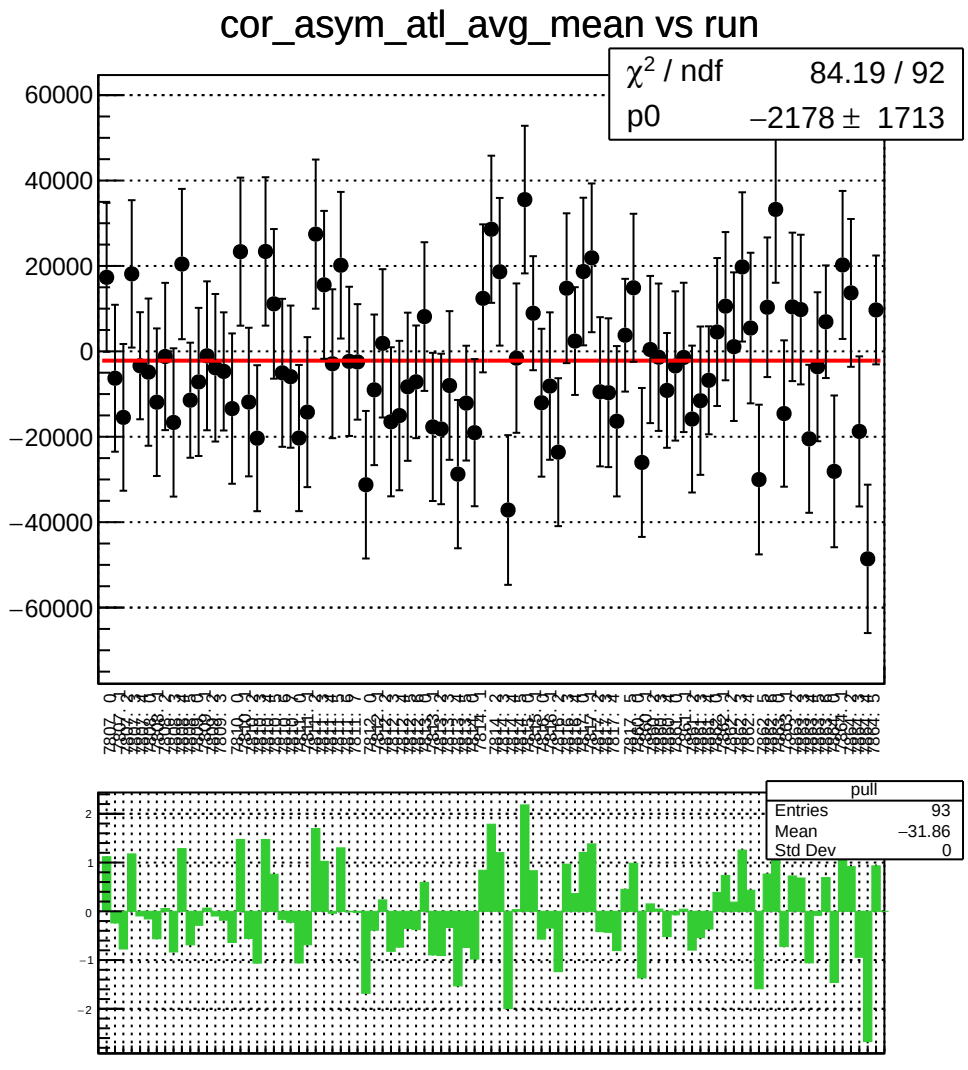

pull1D
Entries 93
Mean −0.003118
Std Dev 0.9514
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

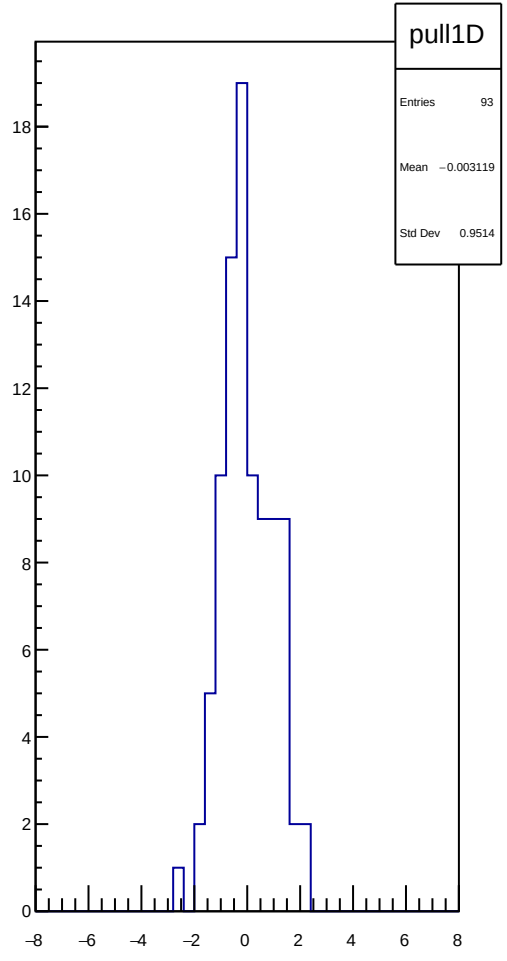

reg_asym_atl_avg_rms vs run
χ^2 / ndf 96.72 / 92
p0 1648 ± 1.211
1700
1680
1660
1640
1620

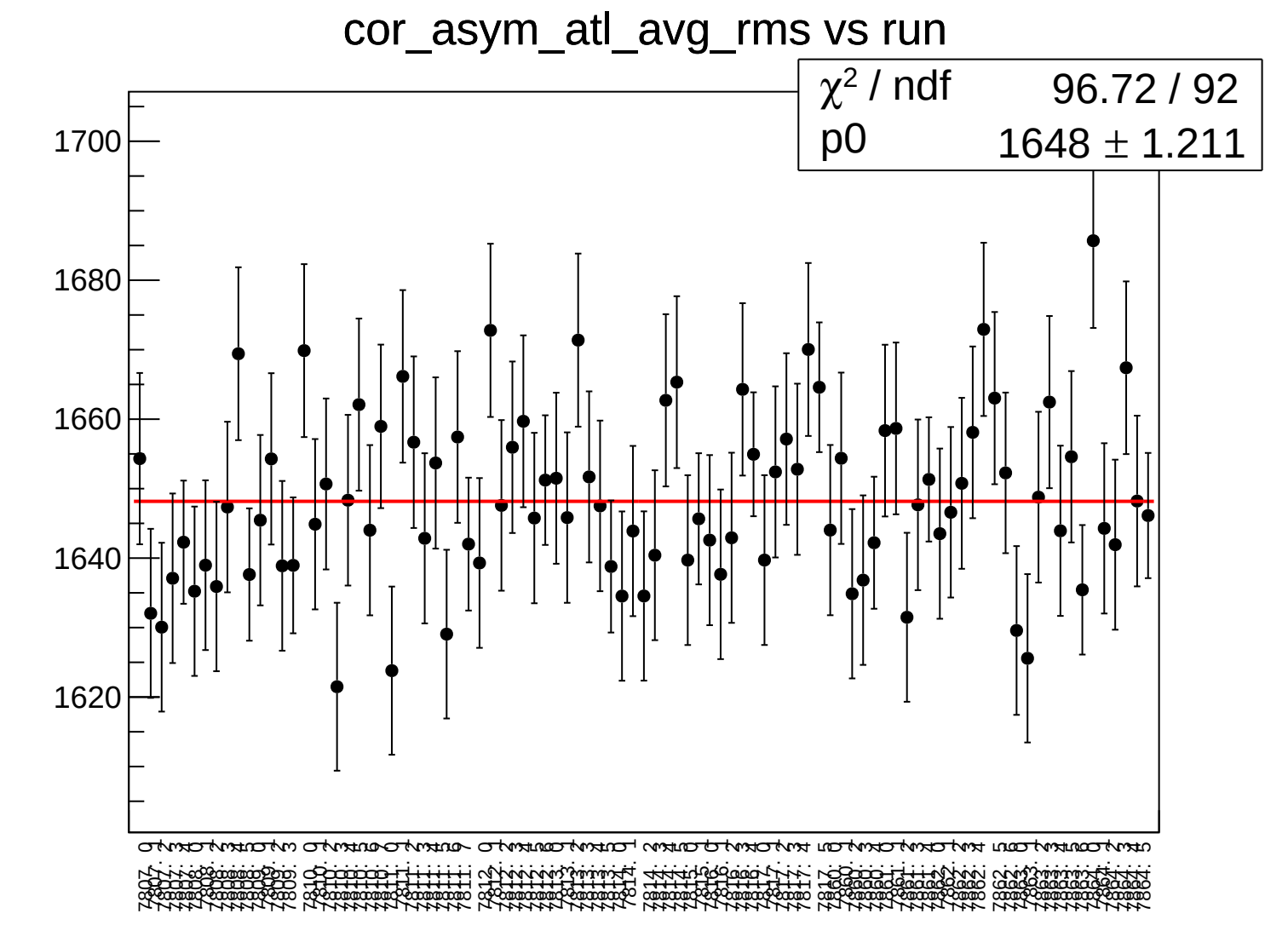

asym_atl_avg_reg_correction_mean vs run
×10^3
χ² / ndf 84.31 / 92
p0 5656 ± 5416
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 93
Mean −64.45
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

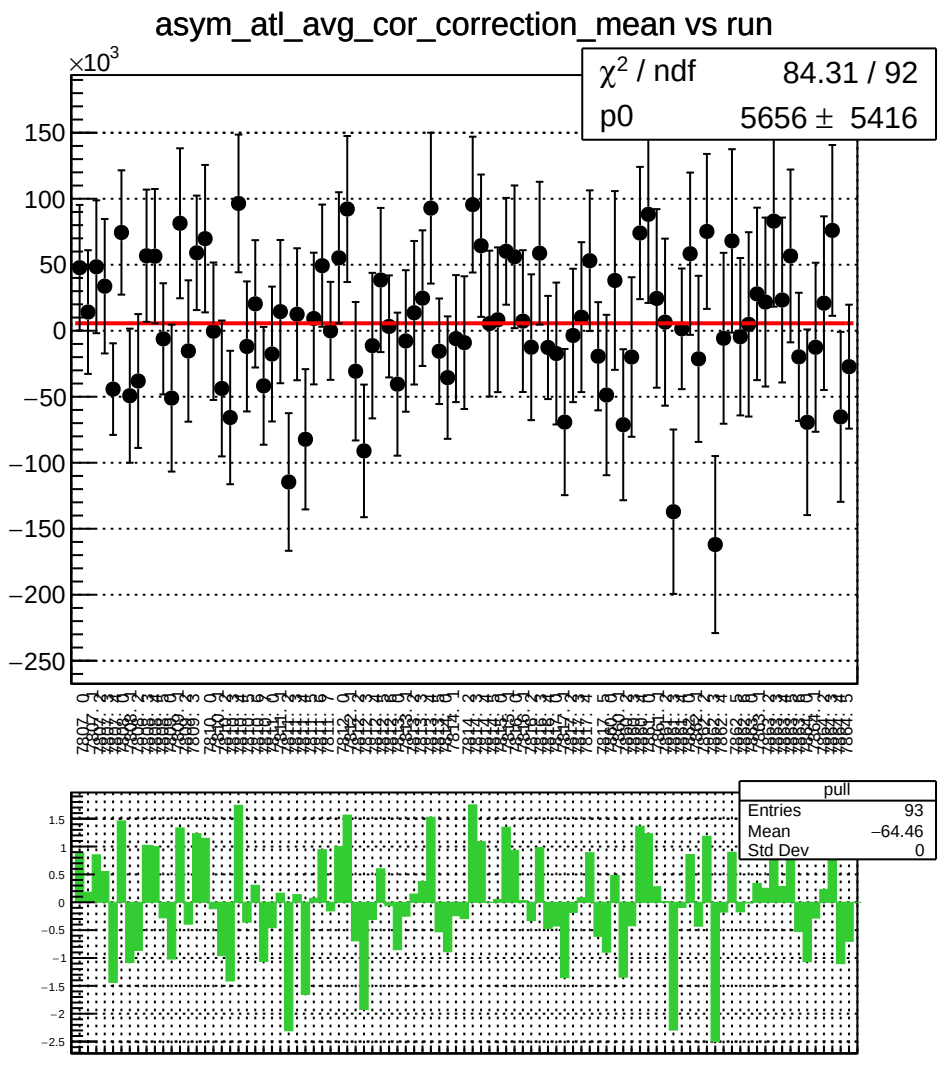

pull1D
Entries 93
Mean 0.009518
Std Dev 0.9521
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

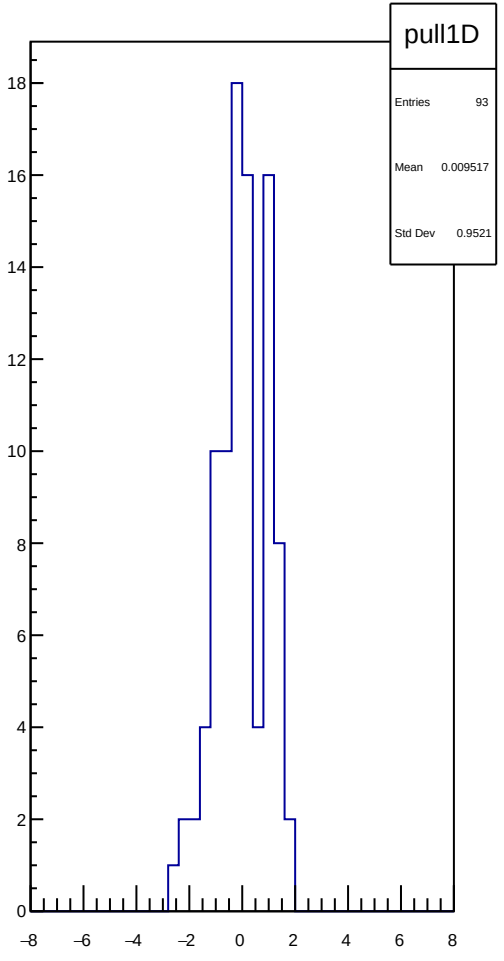

asym_atl_avg_reg_correction_rms vs run
χ² / ndf 2.194e+04 / 92
p0 5181 ± 3.83
6500
6000
5500
5000
4500

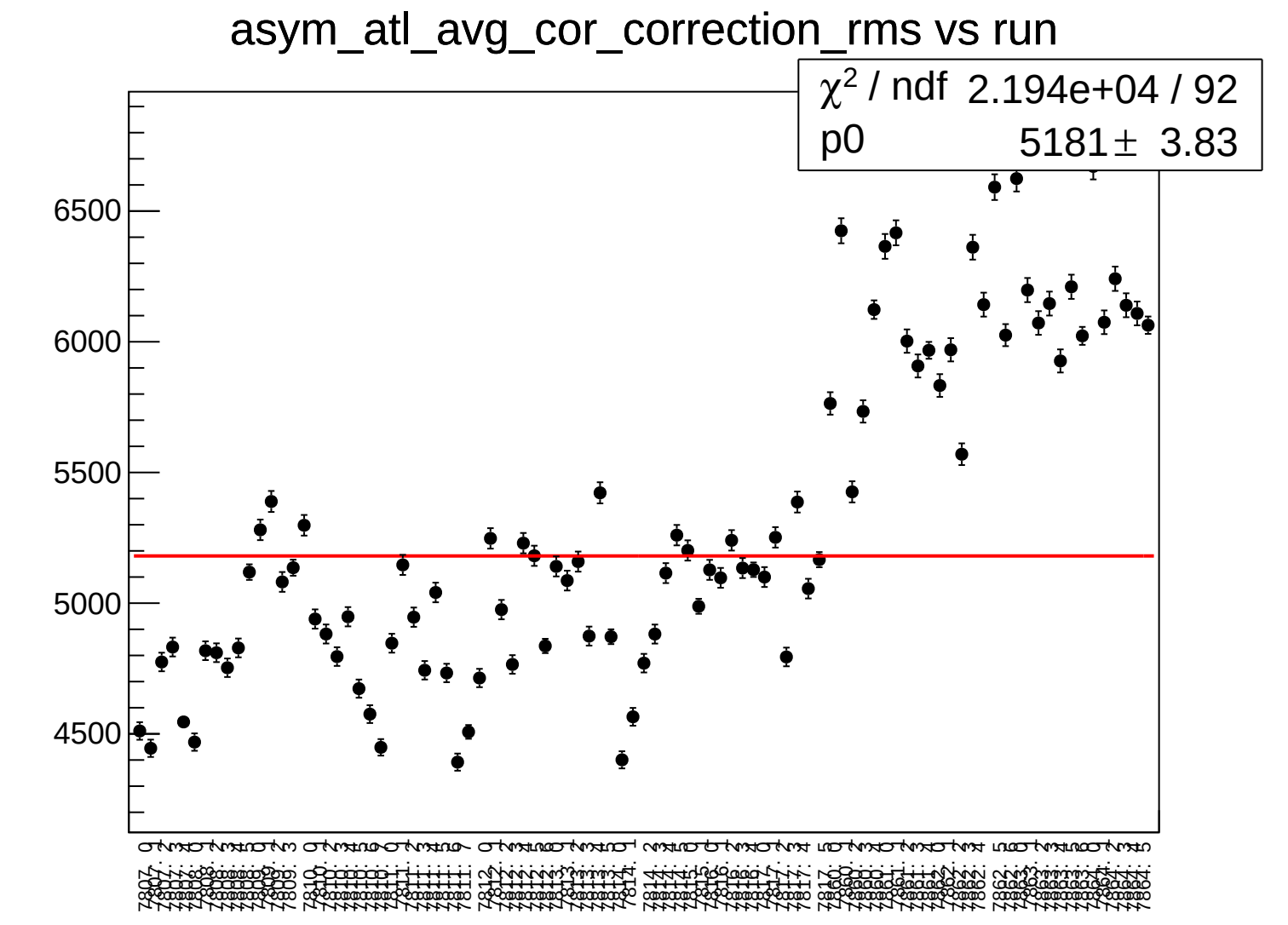

cor_asym_atl_avg_mean vs run
χ² / ndf 84.19 / 92
p0 −2178 ± 1713
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −31.86
Std Dev 0
2
1
0
−1
−2

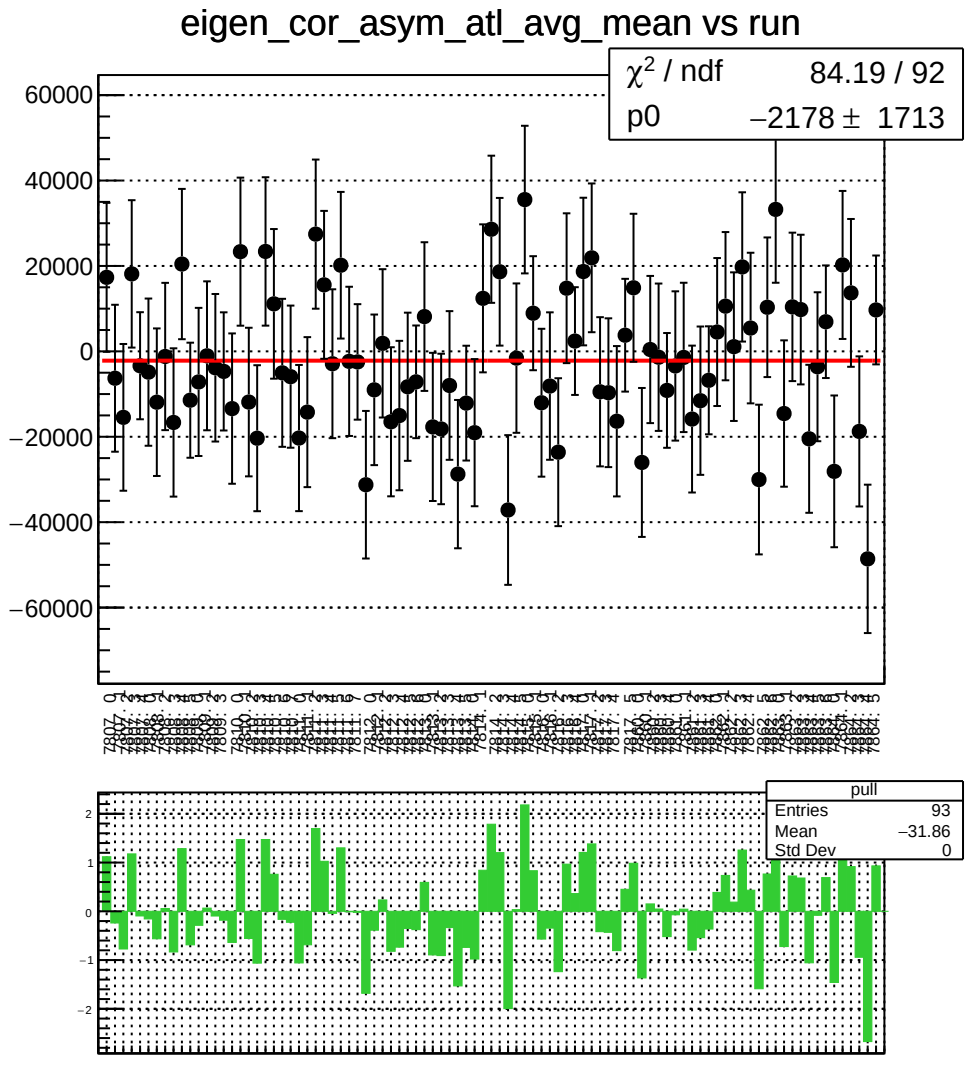

pull1D
Entries 93
Mean −0.003119
Std Dev 0.9514
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

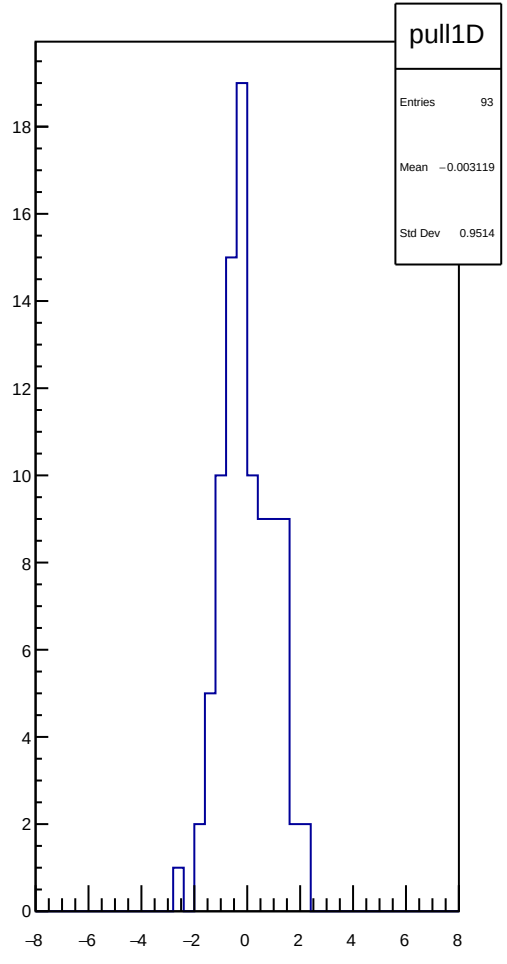

cor_asym_atl_avg_rms vs run
χ² / ndf 96.72 / 92
p0 1648 ± 1.211
1700
1680
1660
1640
1620

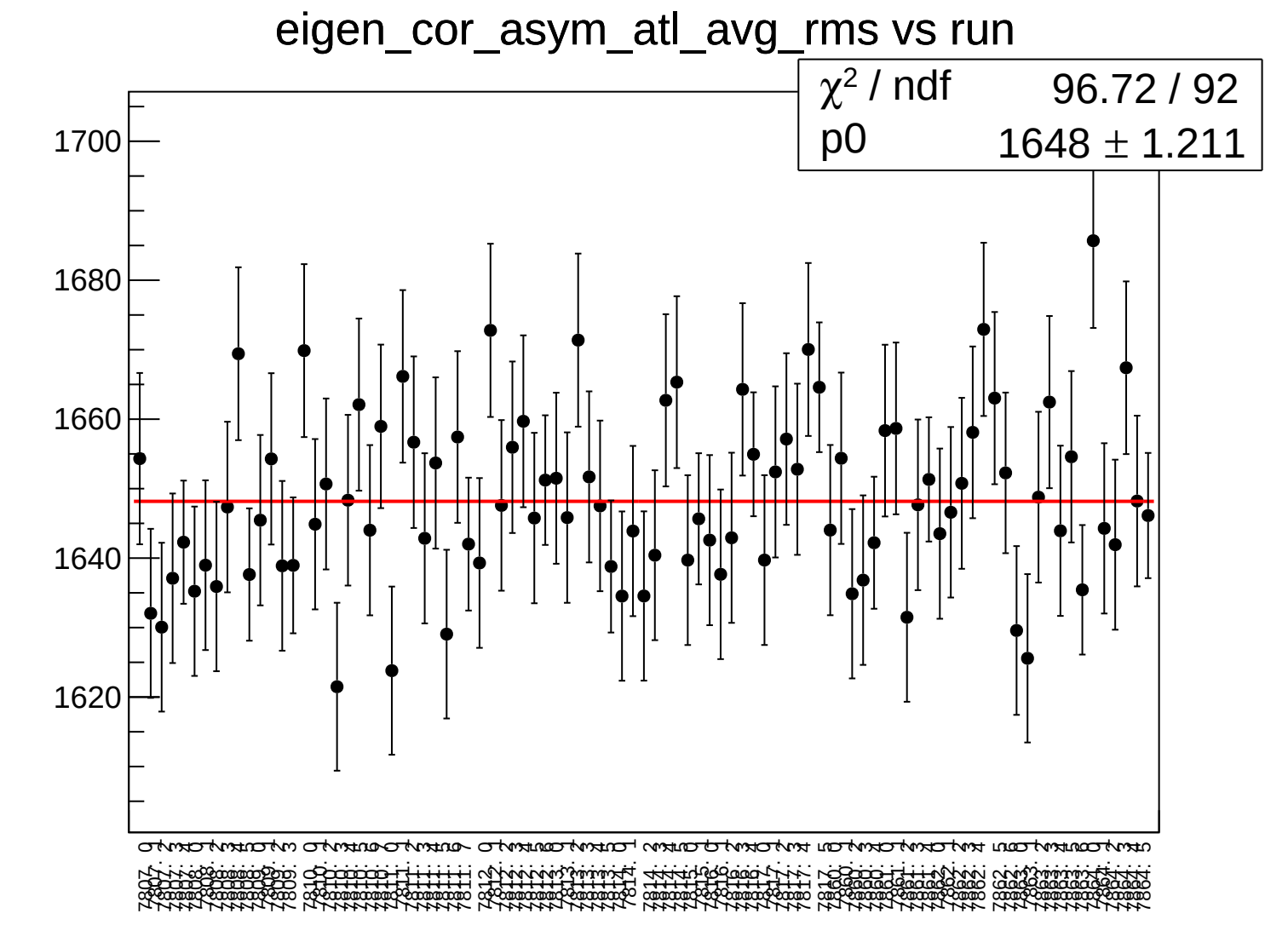

asym_atl_avg_cor_correction_mean vs run
×10^3
χ² / ndf 84.31 / 92
p0 5656 ± 5416
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 93
Mean −64.46
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

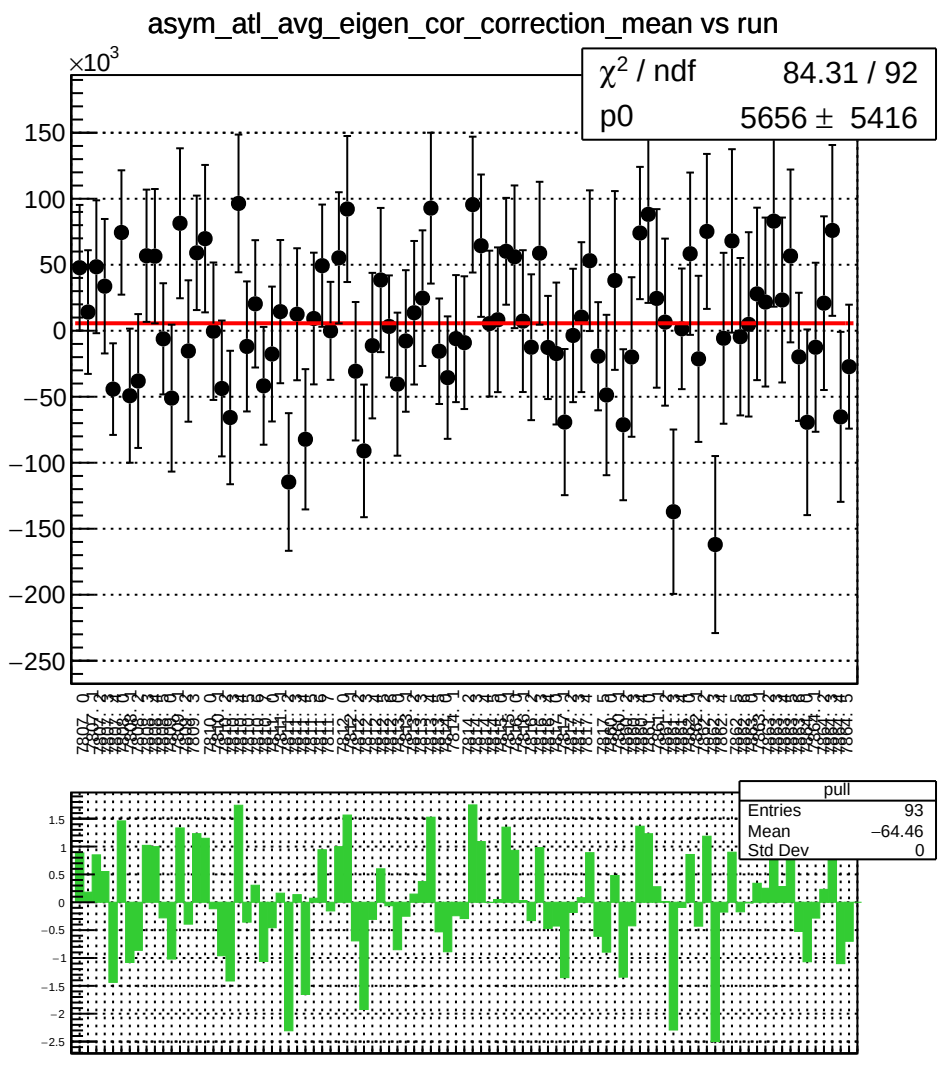

pull1D
Entries 93
Mean 0.009517
Std Dev 0.9521
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

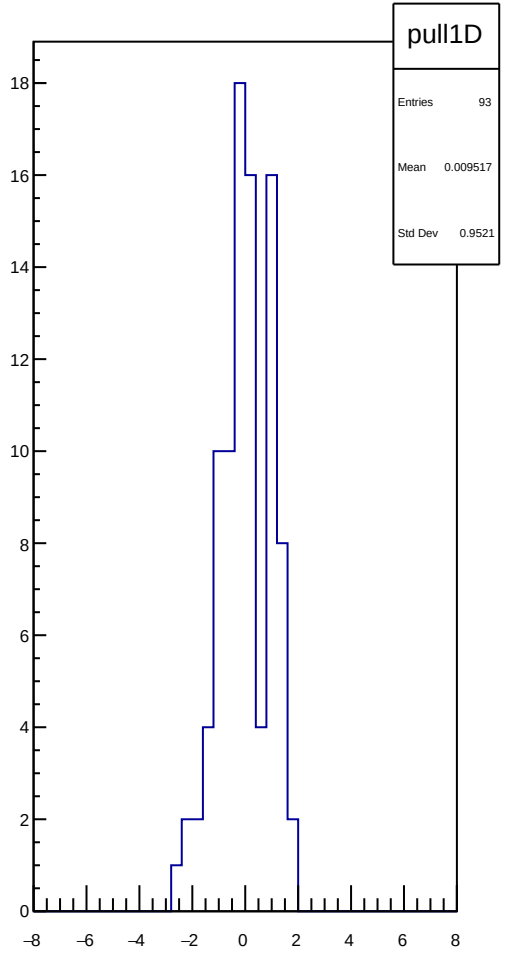

asym_atl_avg_cor_correction_rms vs run
χ² / ndf 2.194e+04 / 92
p0 5181 ± 3.83
6500
6000
5500
5000
4500

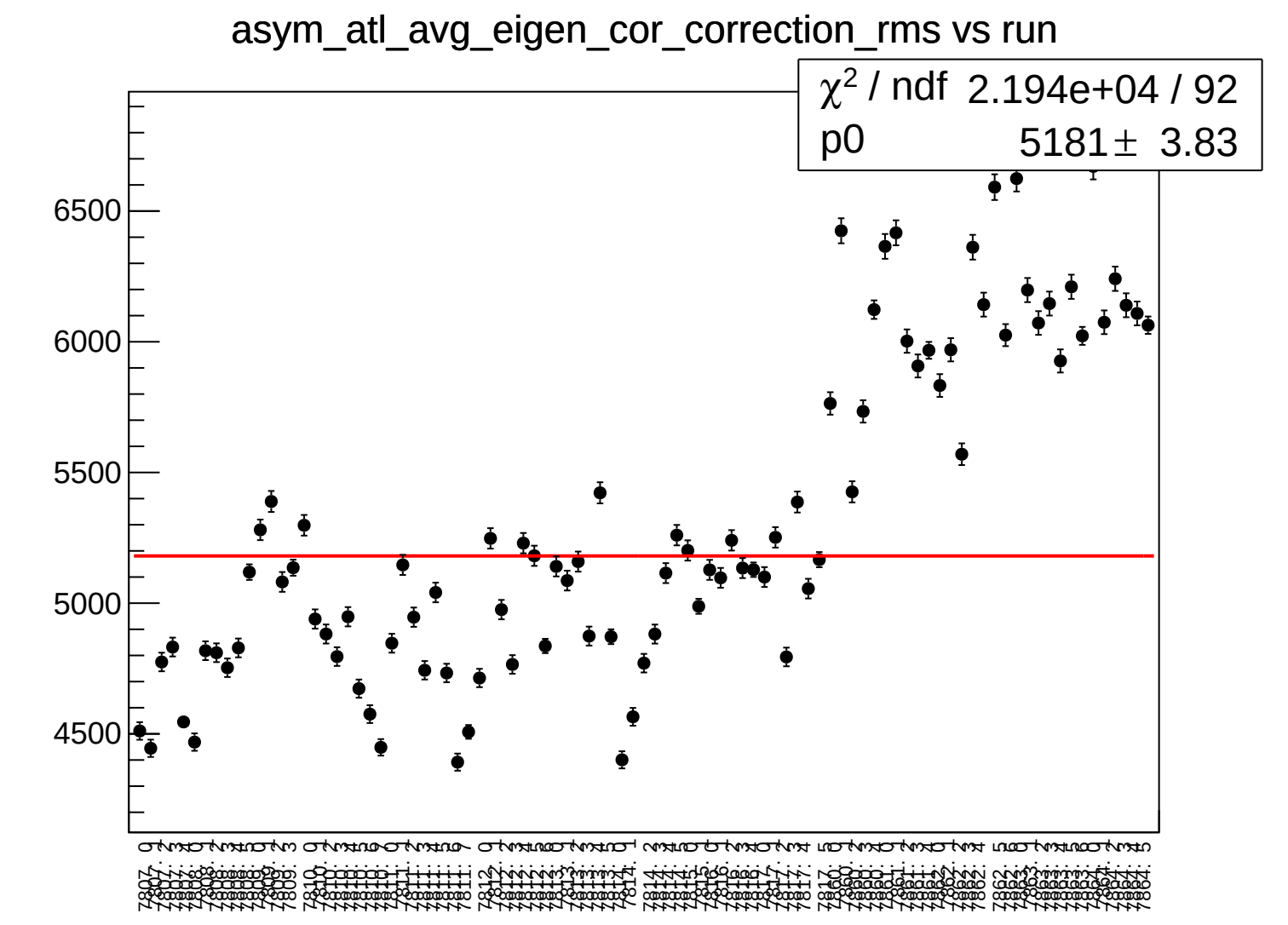

eigen_cor_asym_atl_avg_mean vs run
χ² / ndf 84.19 / 92
p0 −2178 ± 1713
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −31.86
Std Dev 0
2
1
0
−1
−2

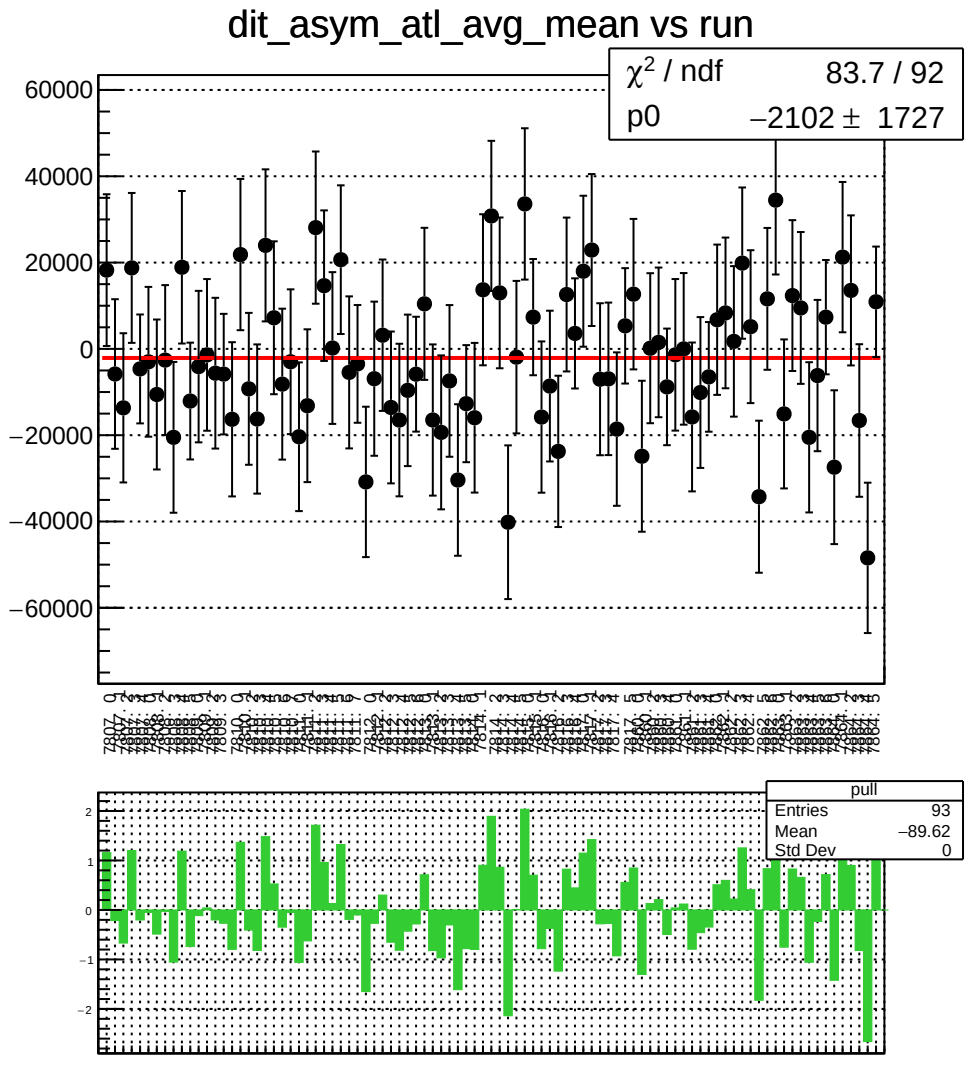

pull1D
Entries 93
Mean −0.003119
Std Dev 0.9514
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

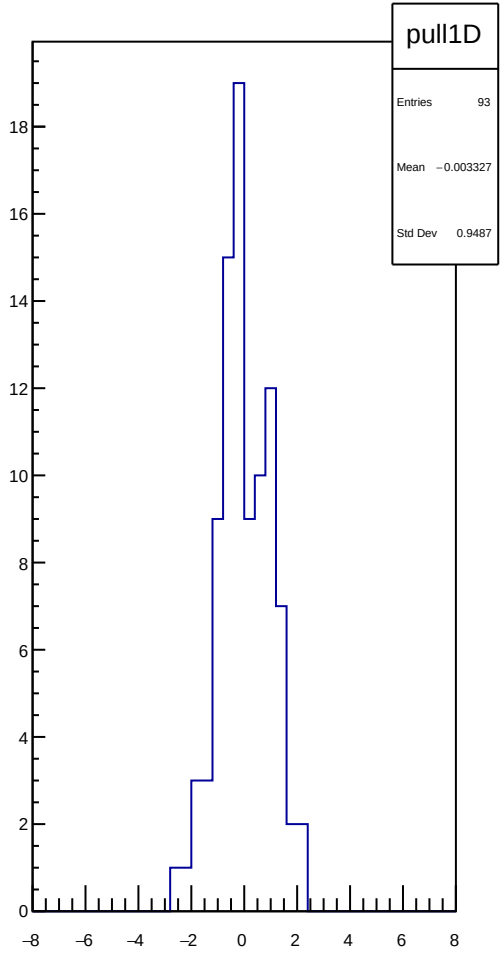

eigen_cor_asym_atl_avg_rms vs run
χ² / ndf 96.72 / 92
p0 1648 ± 1.211
1700
1680
1660
1640
1620

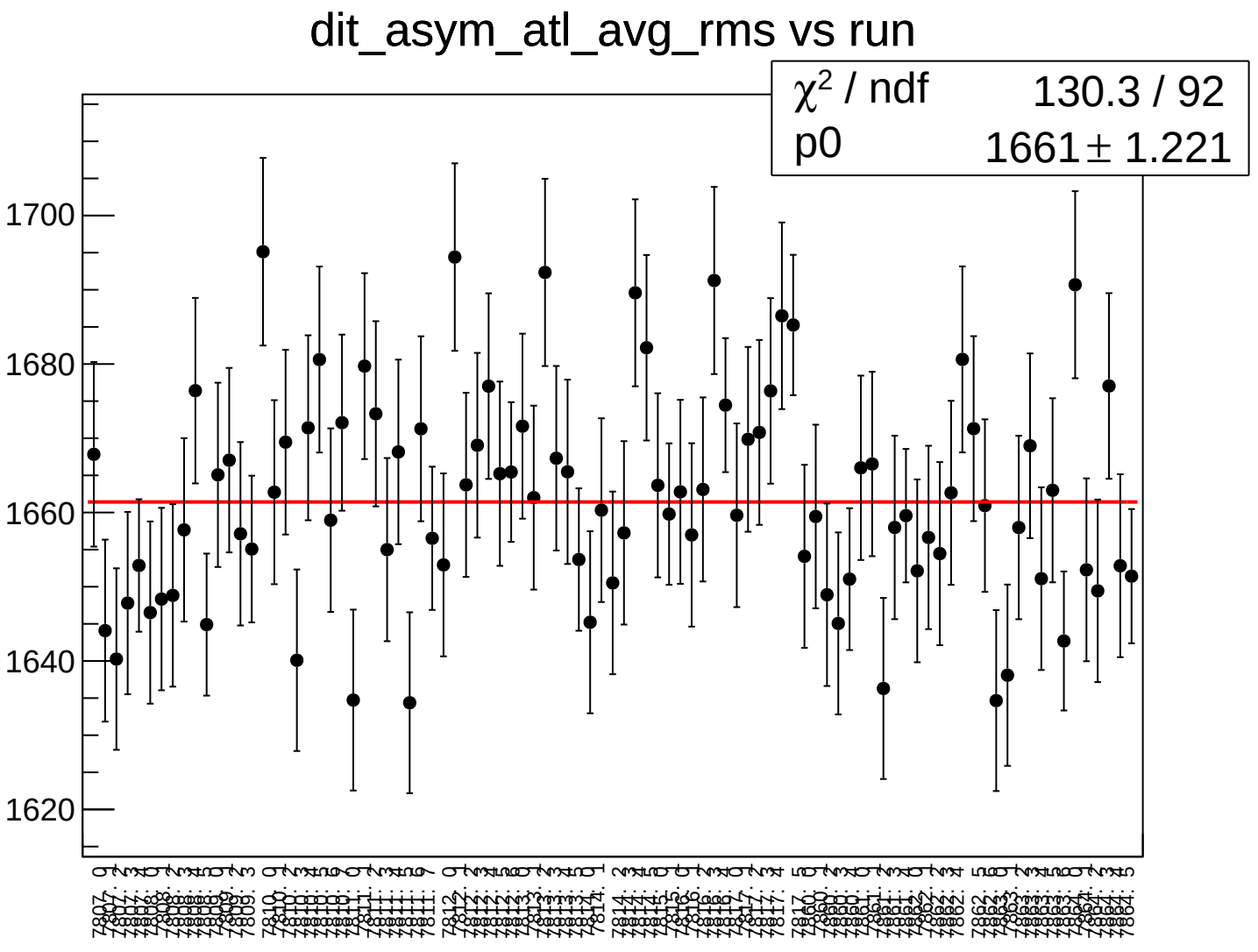

asym_atl_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 84.31 / 92
p0 5656 ± 5416
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 93
Mean −64.46
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

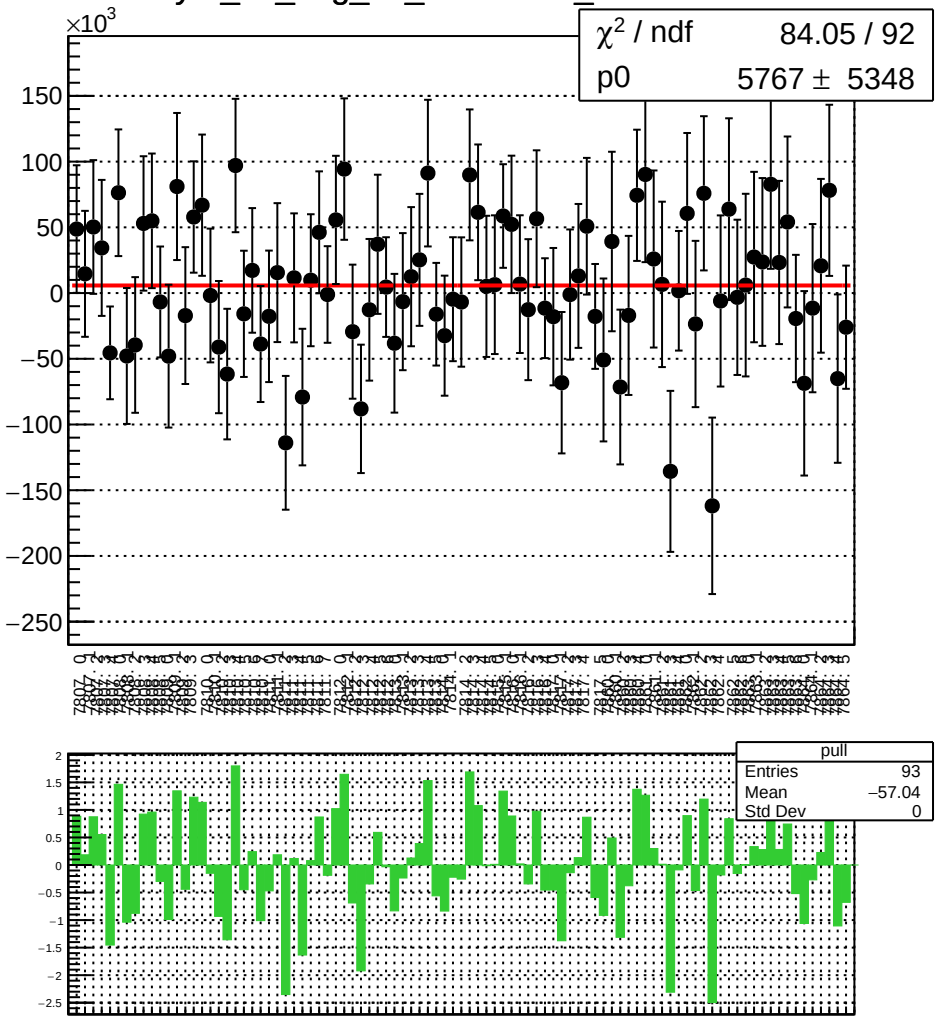

pull1D
Entries 93
Mean 0.009517
Std Dev 0.9521
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

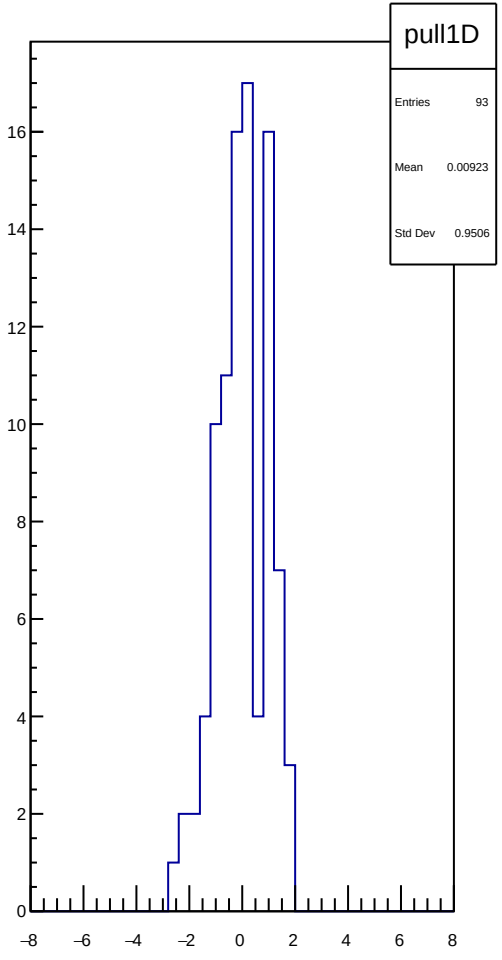

asym_atl_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.194e+04 / 92
p0 5181 ± 3.83
6500
6000
5500
5000
4500

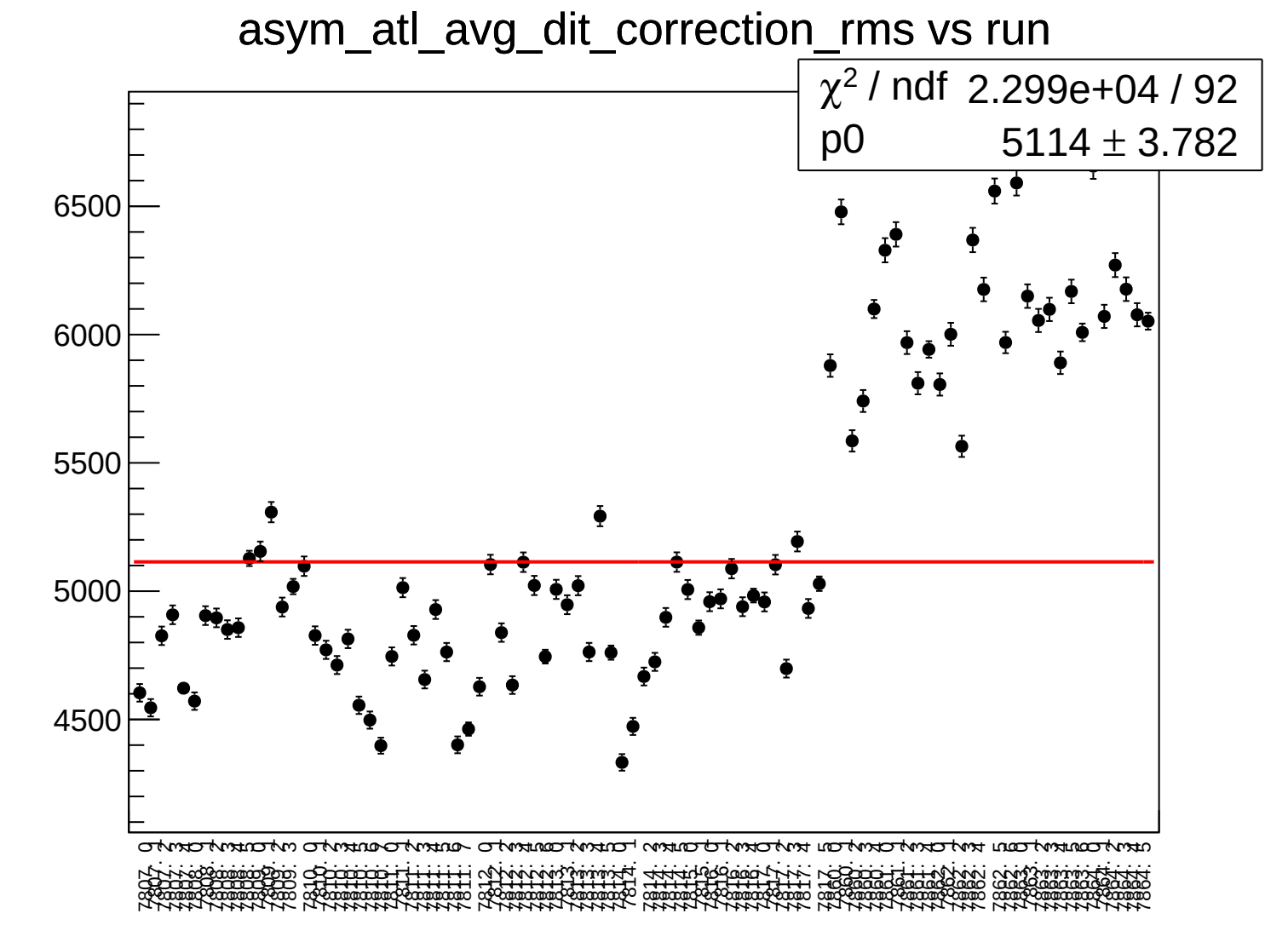

dit_asym_atl_avg_mean vs run
χ² / ndf 83.7 / 92
p0 −2102 ± 1727
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −89.62
Std Dev 0
2
1
0
−1
−2

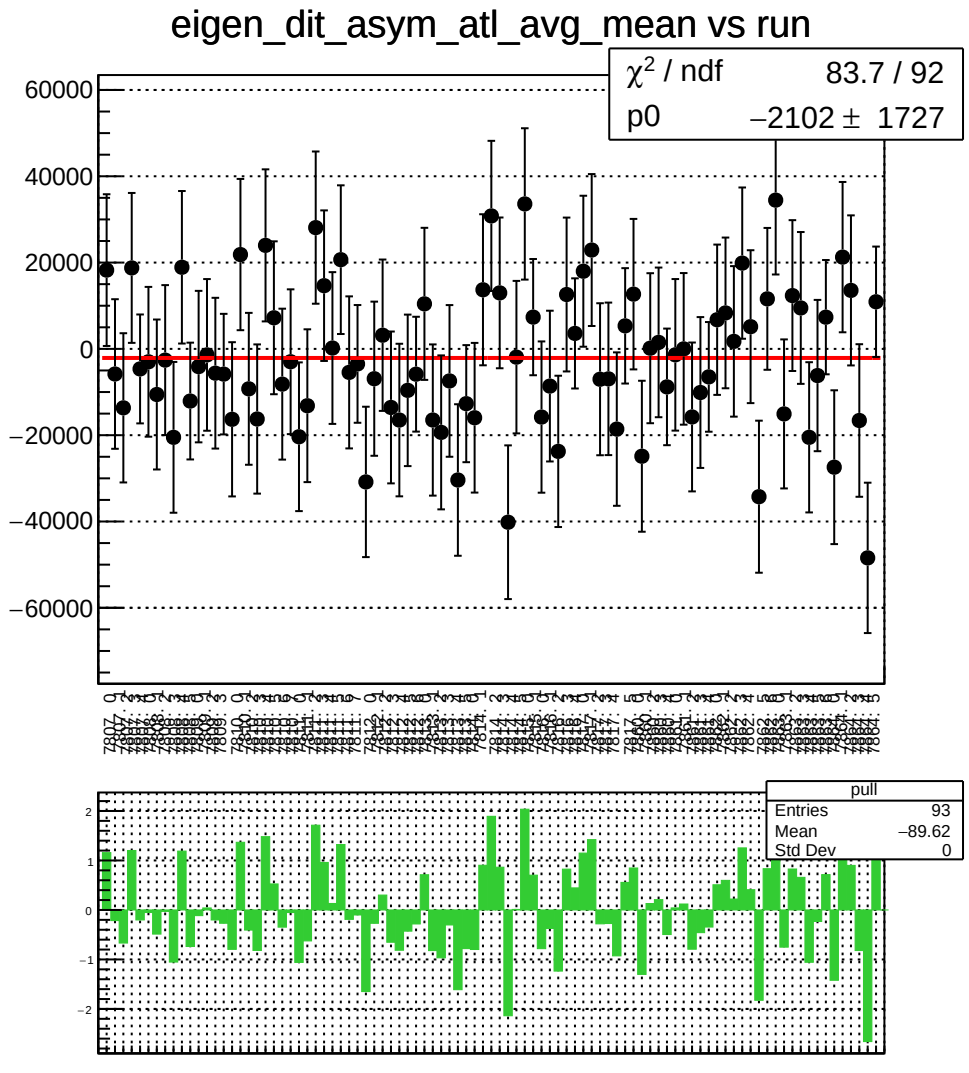

pull1D
Entries 93
Mean −0.003327
Std Dev 0.9487
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

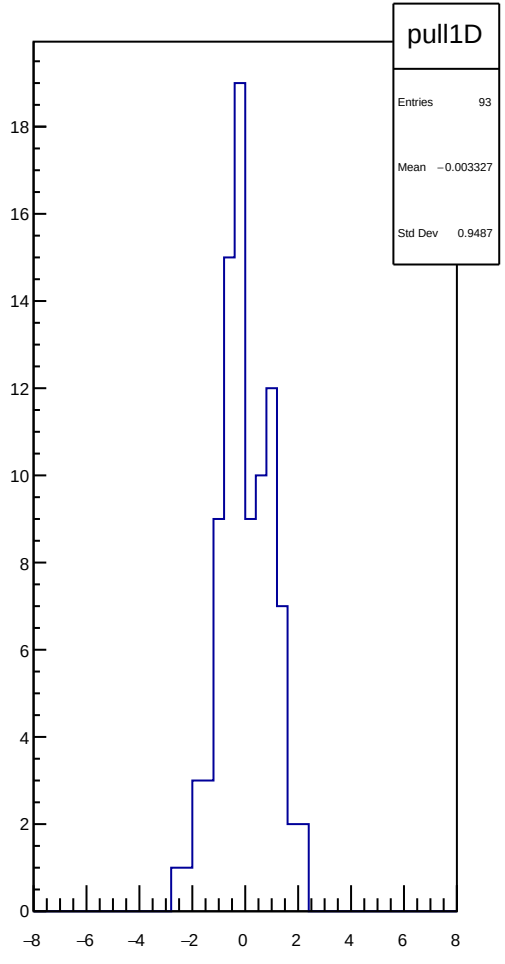

dit_asym_atl_avg_rms vs run
χ² / ndf 130.3 / 92
p0 1661 ± 1.221
1700
1680
1660
1640
1620

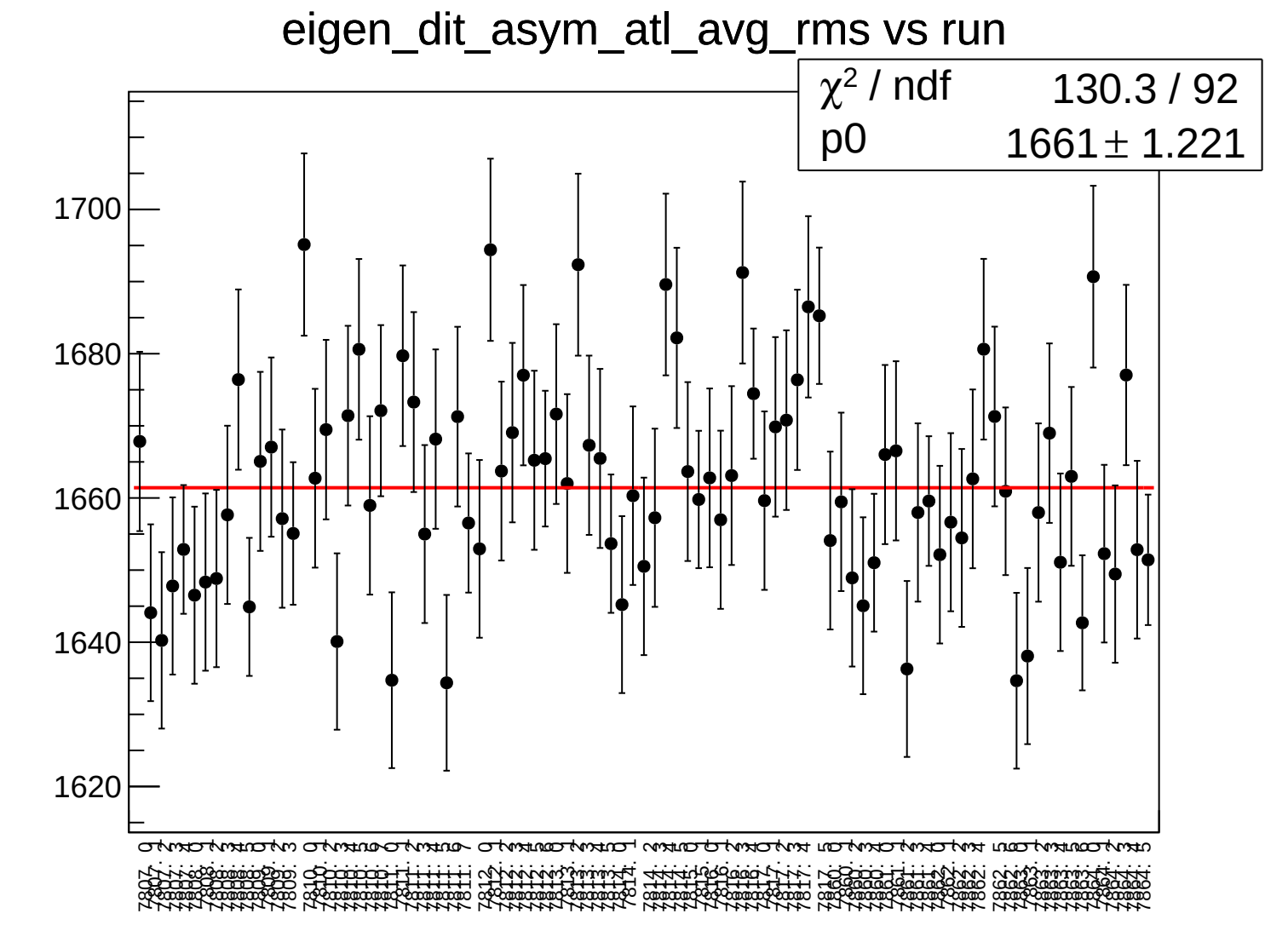

asym_atl_avg_dit_correction_mean vs run
×10^3
χ² / ndf 84.05 / 92
p0 5767 ± 5348
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 93
Mean −57.04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

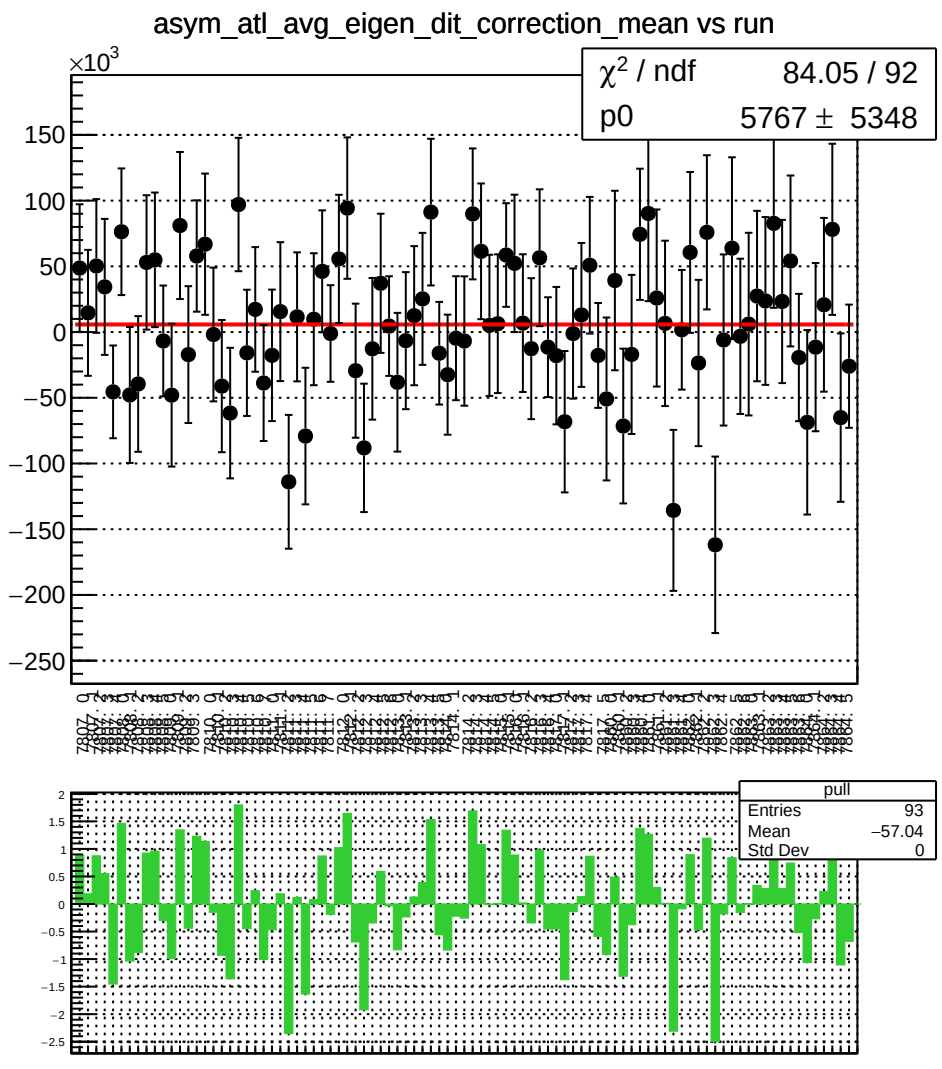

pull1D
Entries 93
Mean 0.00923
Std Dev 0.9506
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

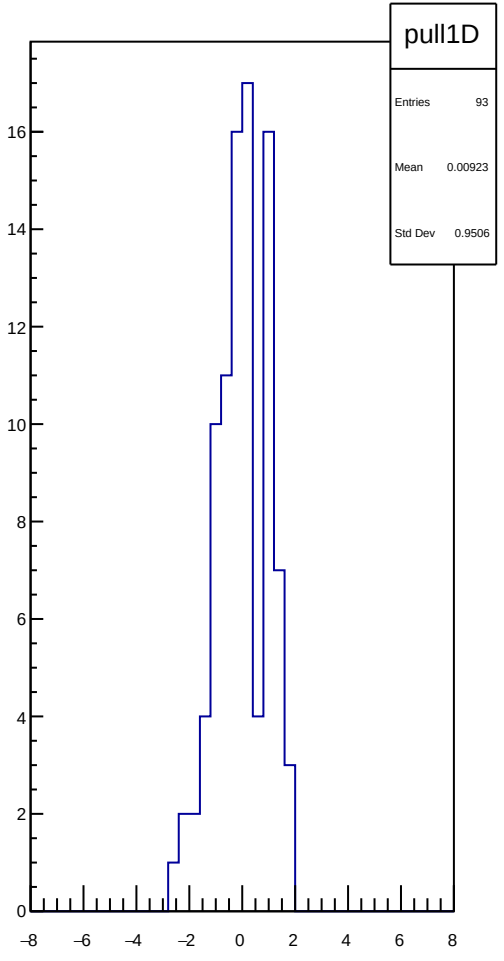

asym_atl_avg_dit_correction_rms vs run
χ² / ndf 2.299e+04 / 92
p0 5114 ± 3.782
6500
6000
5500
5000
4500

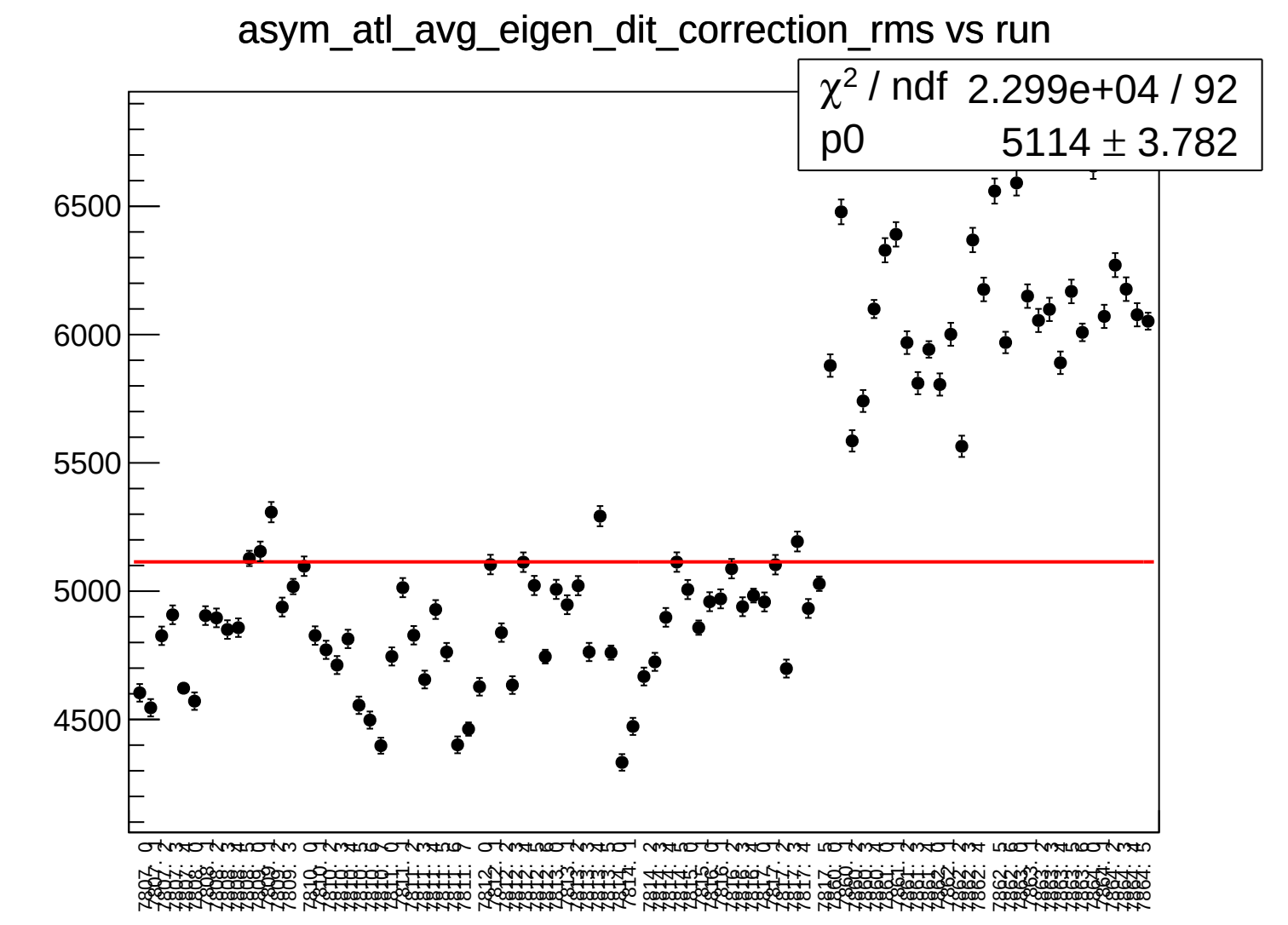

eigen_dit_asym_atl_avg_mean vs run
χ² / ndf 83.7 / 92
p0 −2102 ± 1727
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −89.62
Std Dev 0
2
1
0
−1
−2

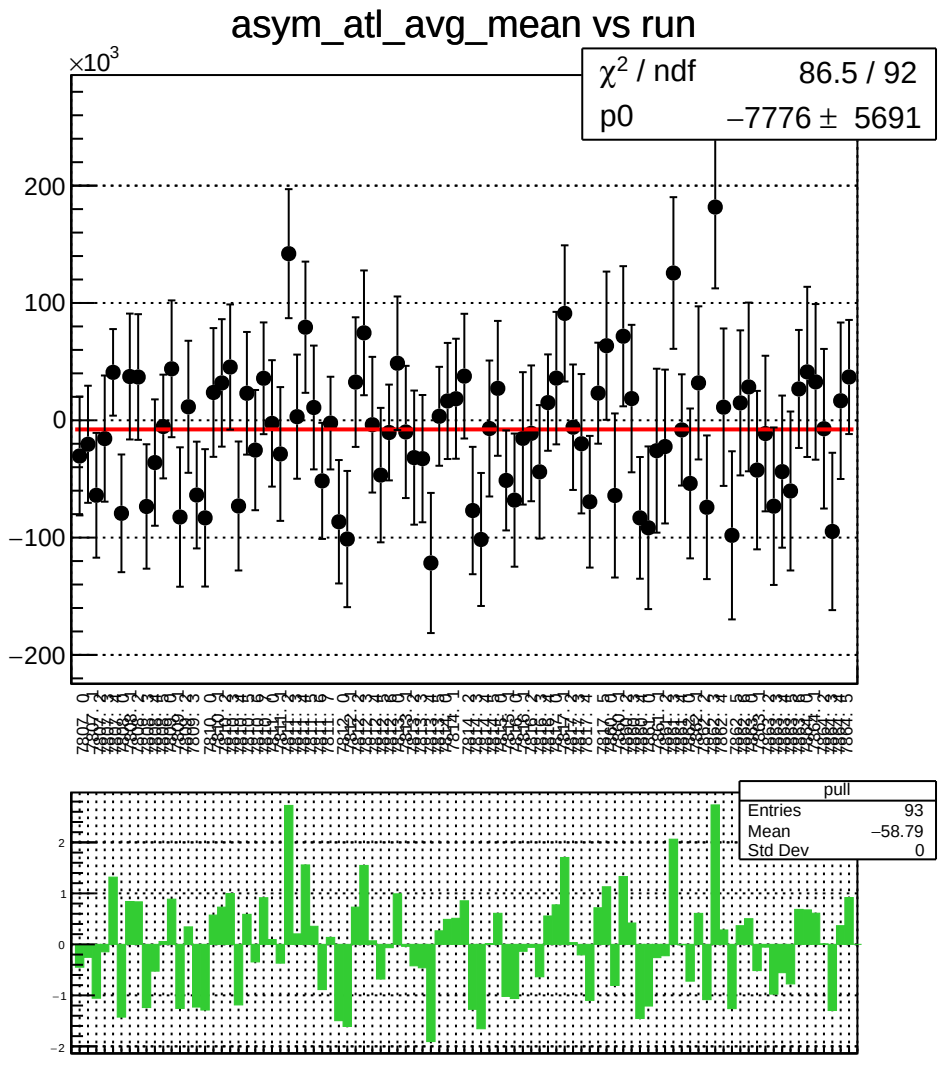

pull1D
Entries 93
Mean −0.003327
Std Dev 0.9487
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

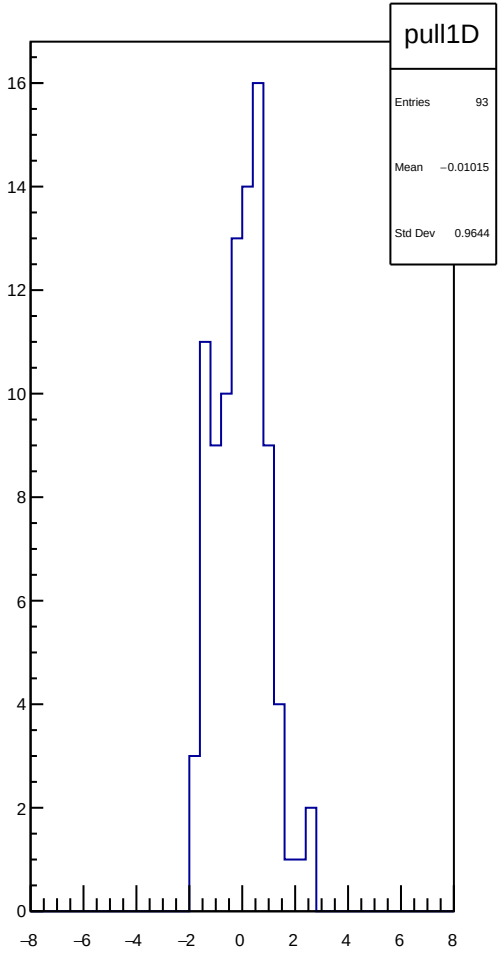

eigen_dit_asym_atl_avg_rms vs run
χ² / ndf 130.3 / 92
p0 1661 ± 1.221
1700
1680
1660
1640
1620

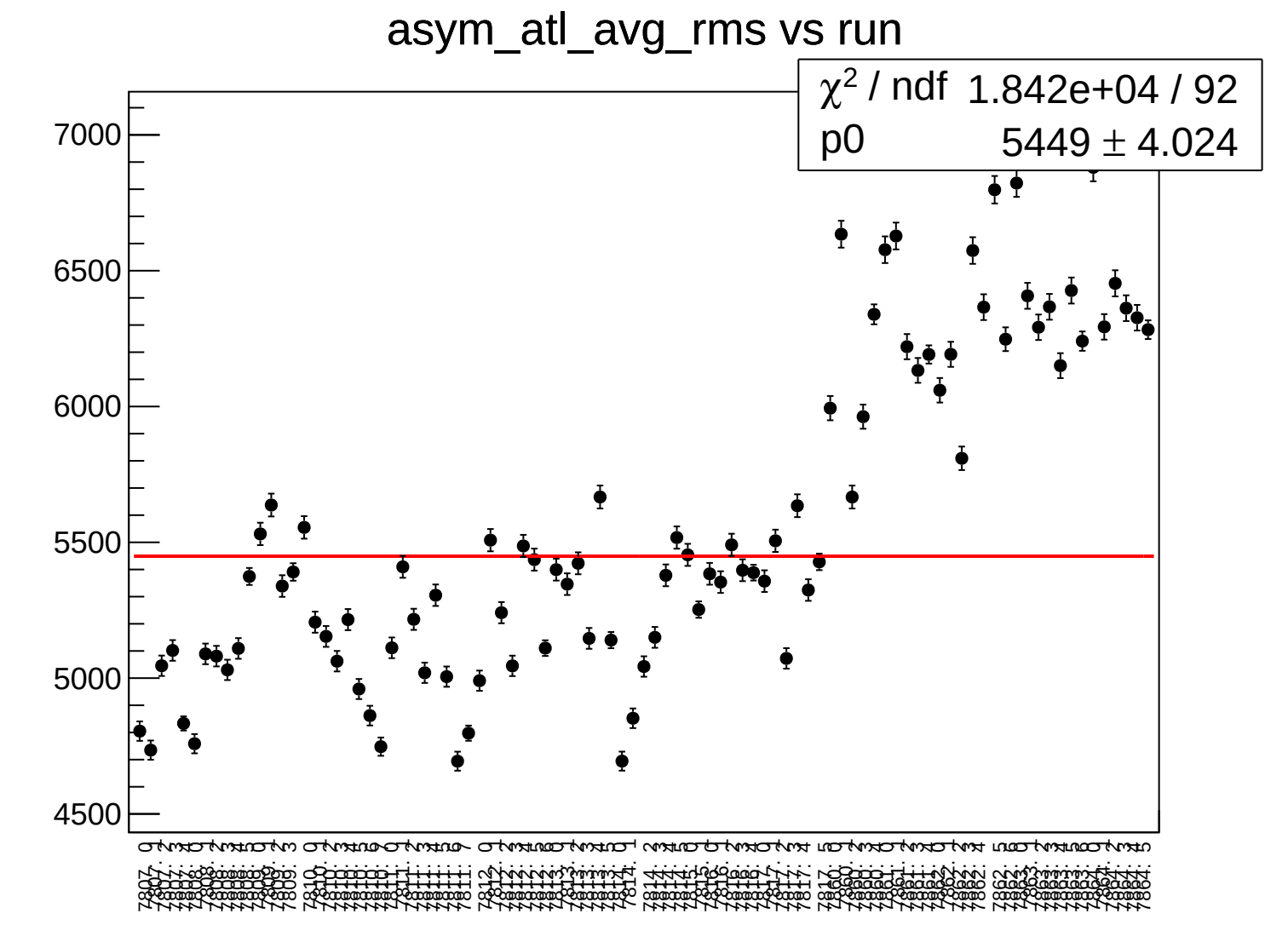

asym_atl_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 84.05 / 92
p0 5767 ± 5348
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 93
Mean −57.04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

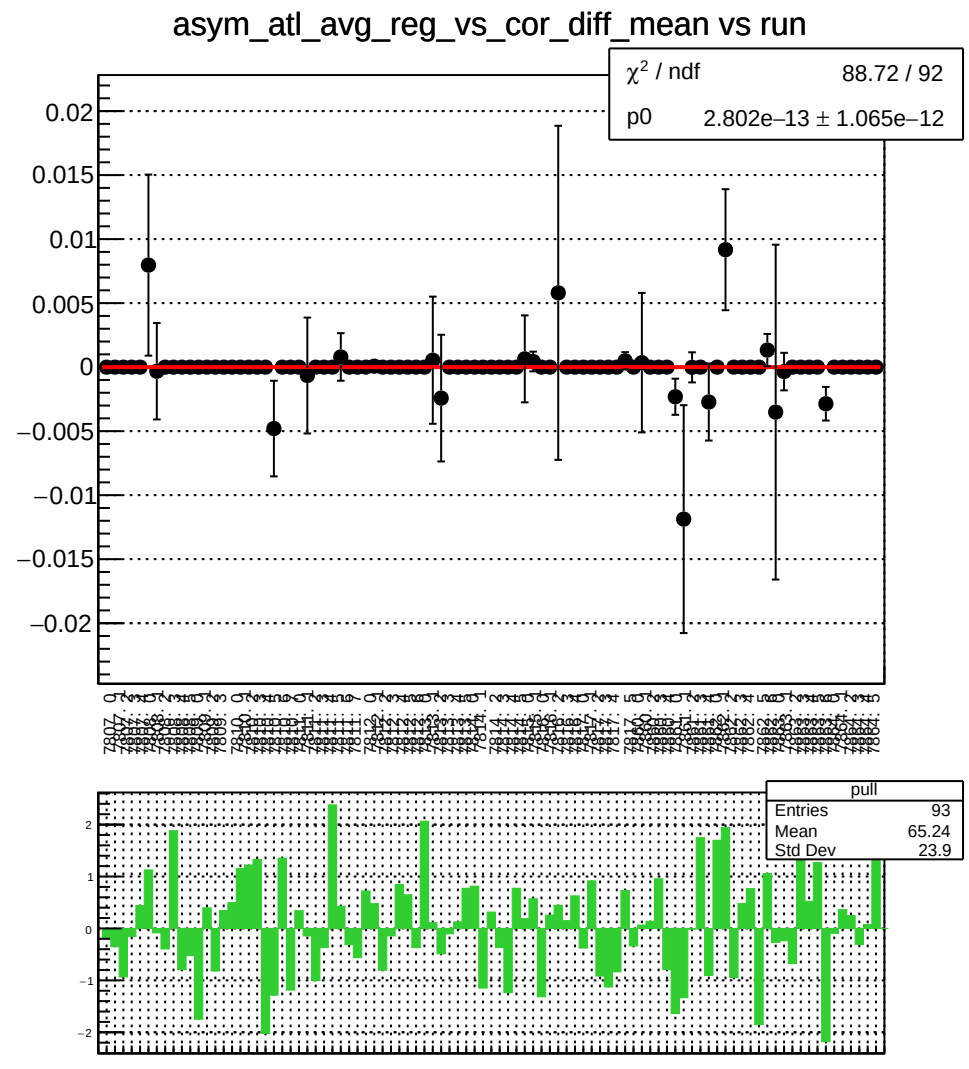

pull1D
Entries 93
Mean 0.00923
Std Dev 0.9506
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

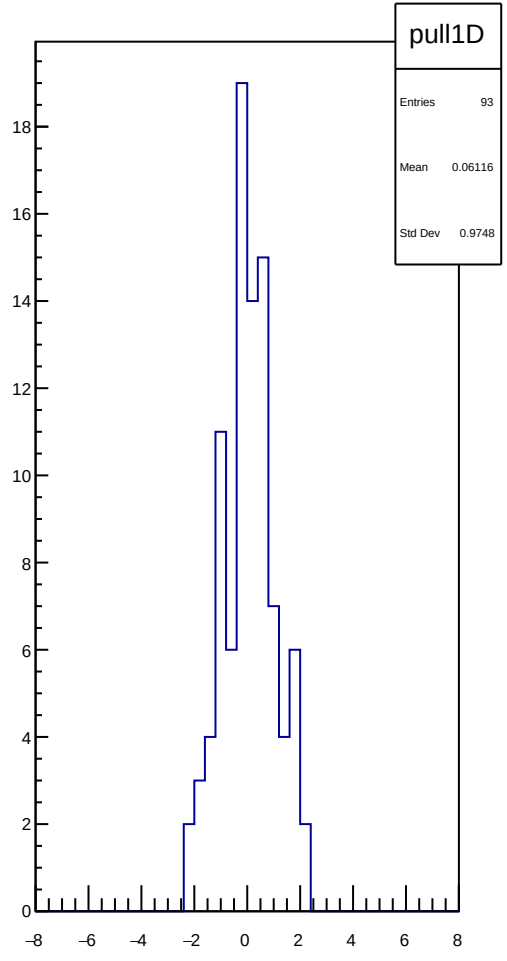

asym_atl_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.299e+04 / 92
p0 5114 ± 3.782
6500
6000
5500
5000
4500

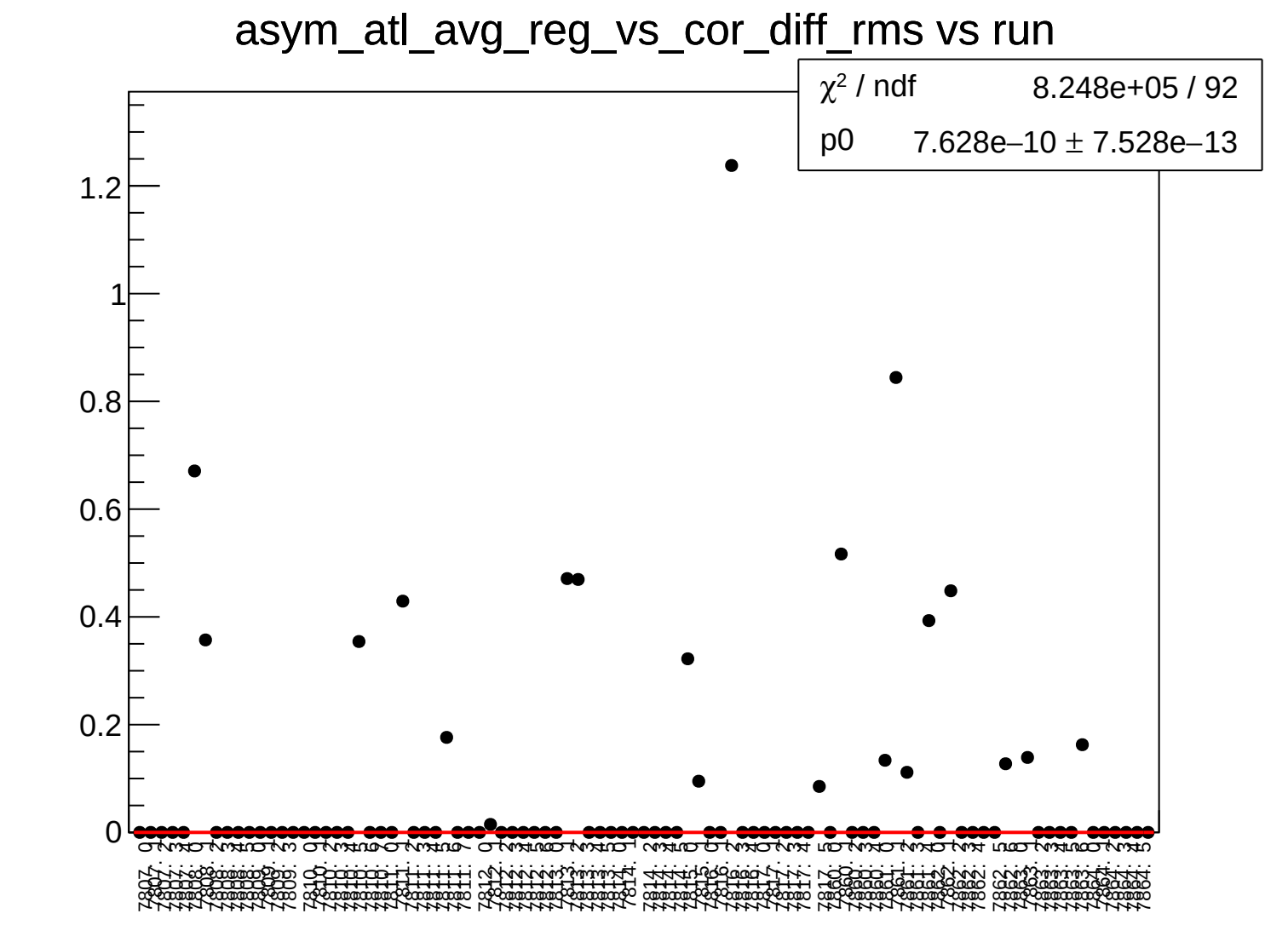

asym_atl_avg_mean vs run
×10^3
χ² / ndf 86.5 / 92
p0 −7776 ± 5691
200
100
0
−100
−200
pull
Entries 93
Mean −58.79
Std Dev 0
2
1
0
−1
−2

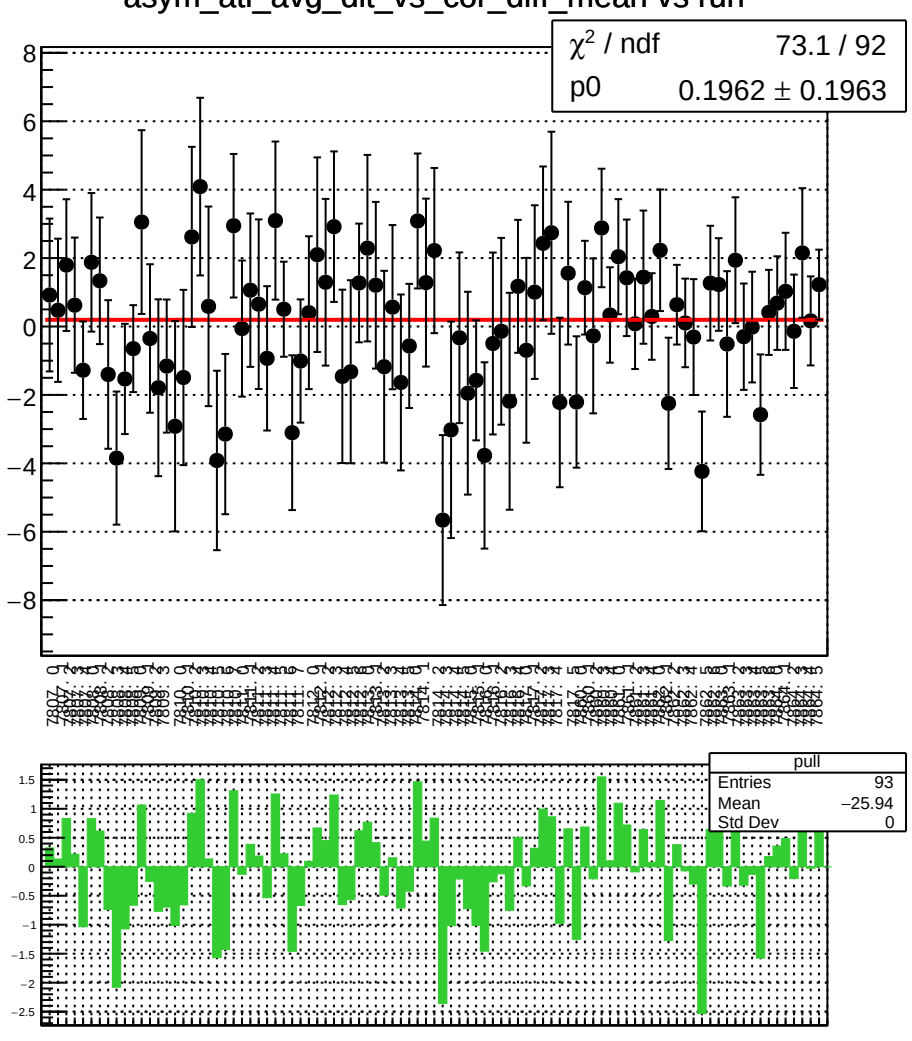

pull1D
Entries 93
Mean −0.01015
Std Dev 0.9644
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

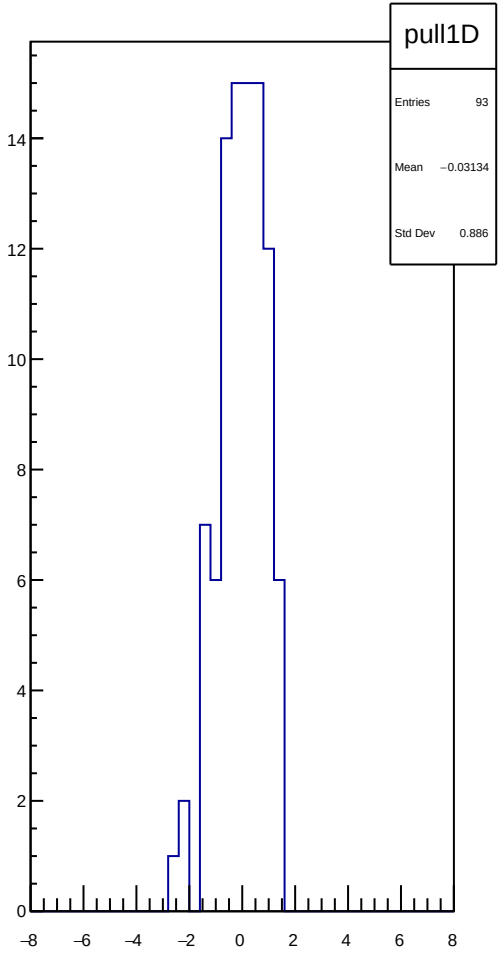

asym_atl_avg_rms vs run
χ² / ndf 1.842e+04 / 92
p0 5449 ± 4.024
7000
6500
6000
5500
5000
4500

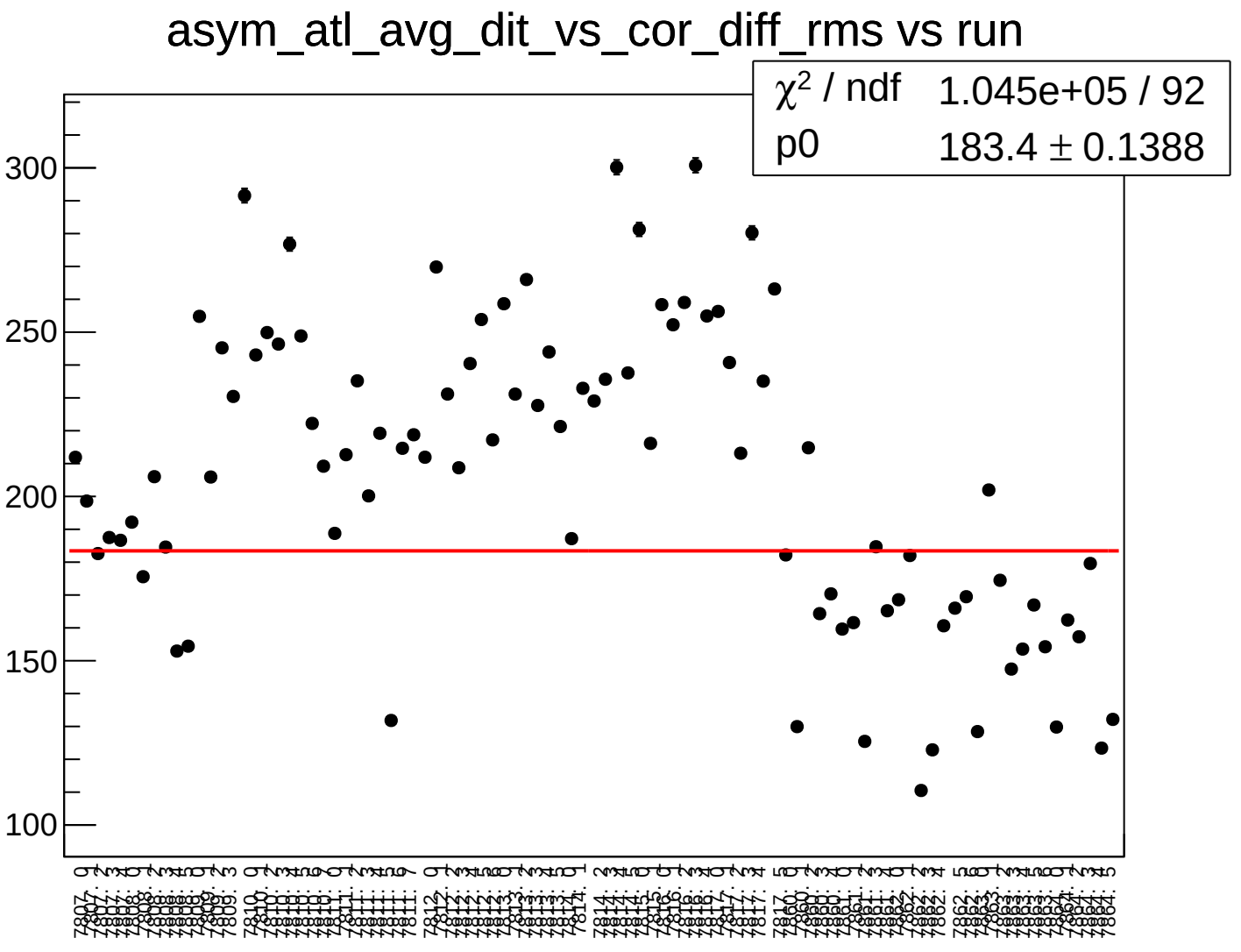

asym_atl_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 88.72 / 92
p0 2.802e−13 ± 1.065e−12
pull
Entries 93
Mean 65.24
Std Dev 23.9

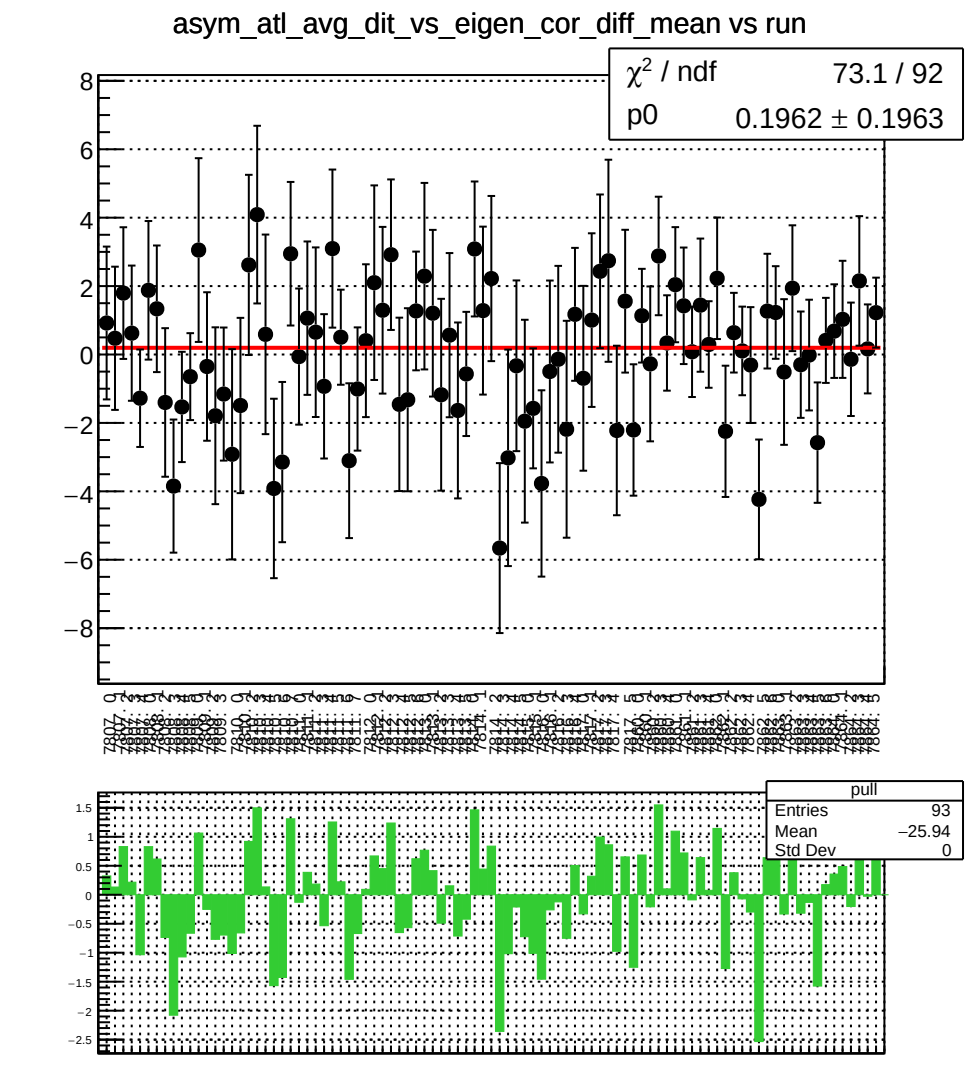

pull1D
Entries 93
Mean 0.06116
Std Dev 0.9748

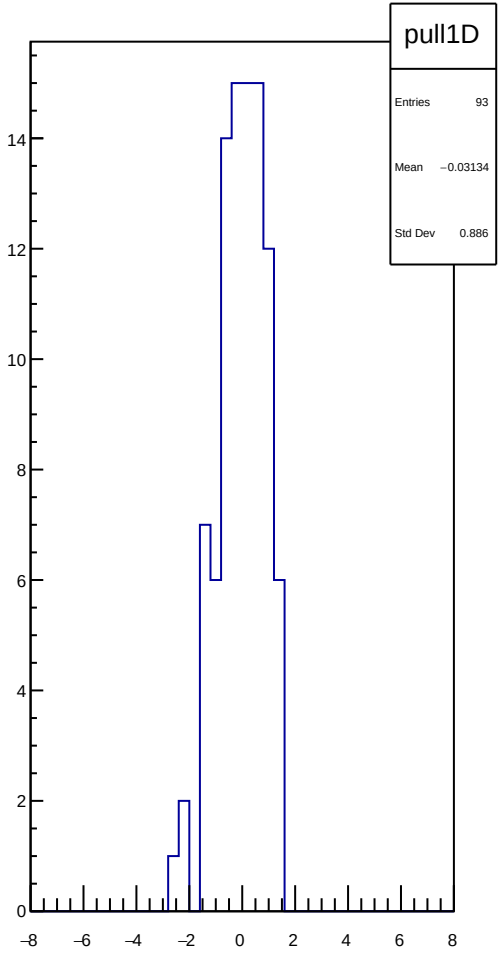

asym_atl_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.248e+05 / 92
p0 7.628e−10 ± 7.528e−13
1.2
1
0.8
0.6
0.4
0.2
0

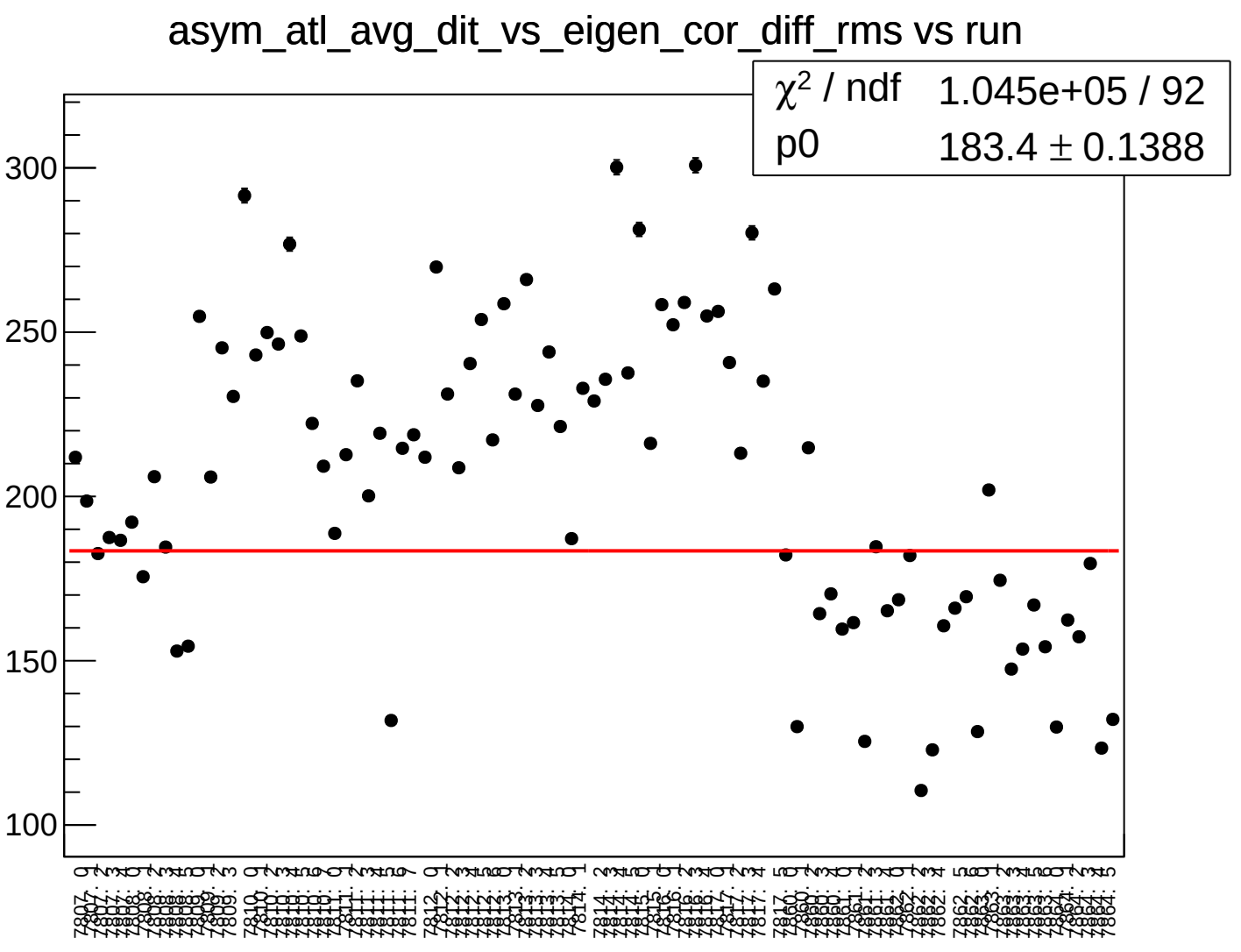

asym_atl_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 73.1 / 92
p0 0.1962 ± 0.1963
pull
Entries 93
Mean −25.94
Std Dev 0

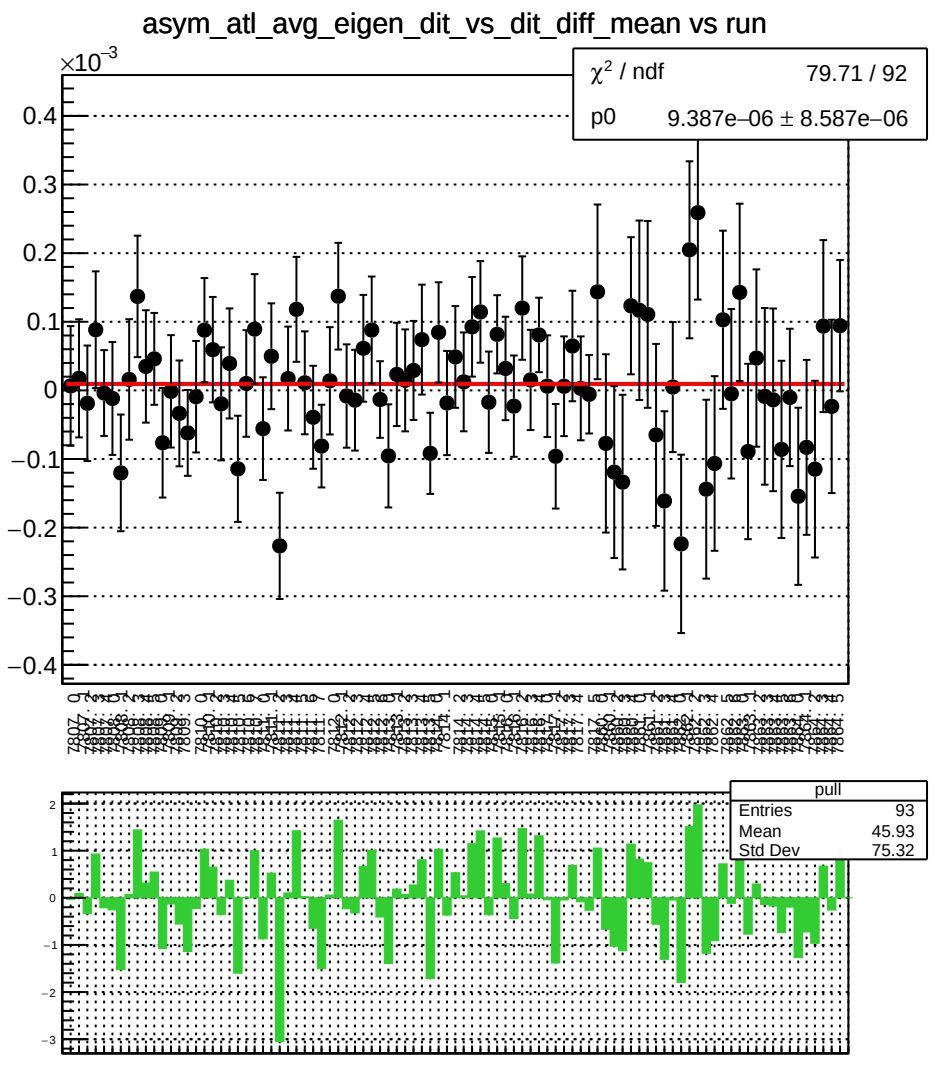

pull1D
Entries 93
Mean −0.03134
Std Dev 0.886

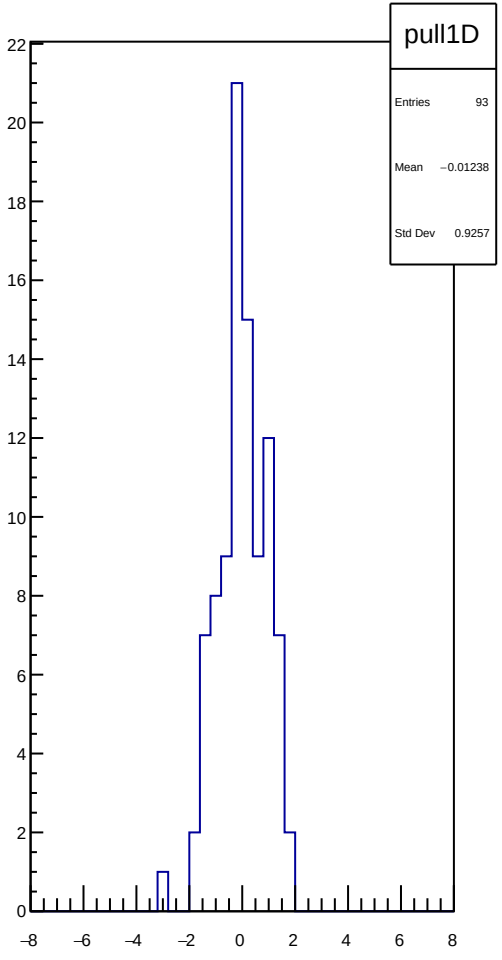

asym_atl_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.045e+05 / 92
p0 183.4 ± 0.1388
300
250
200
150
100

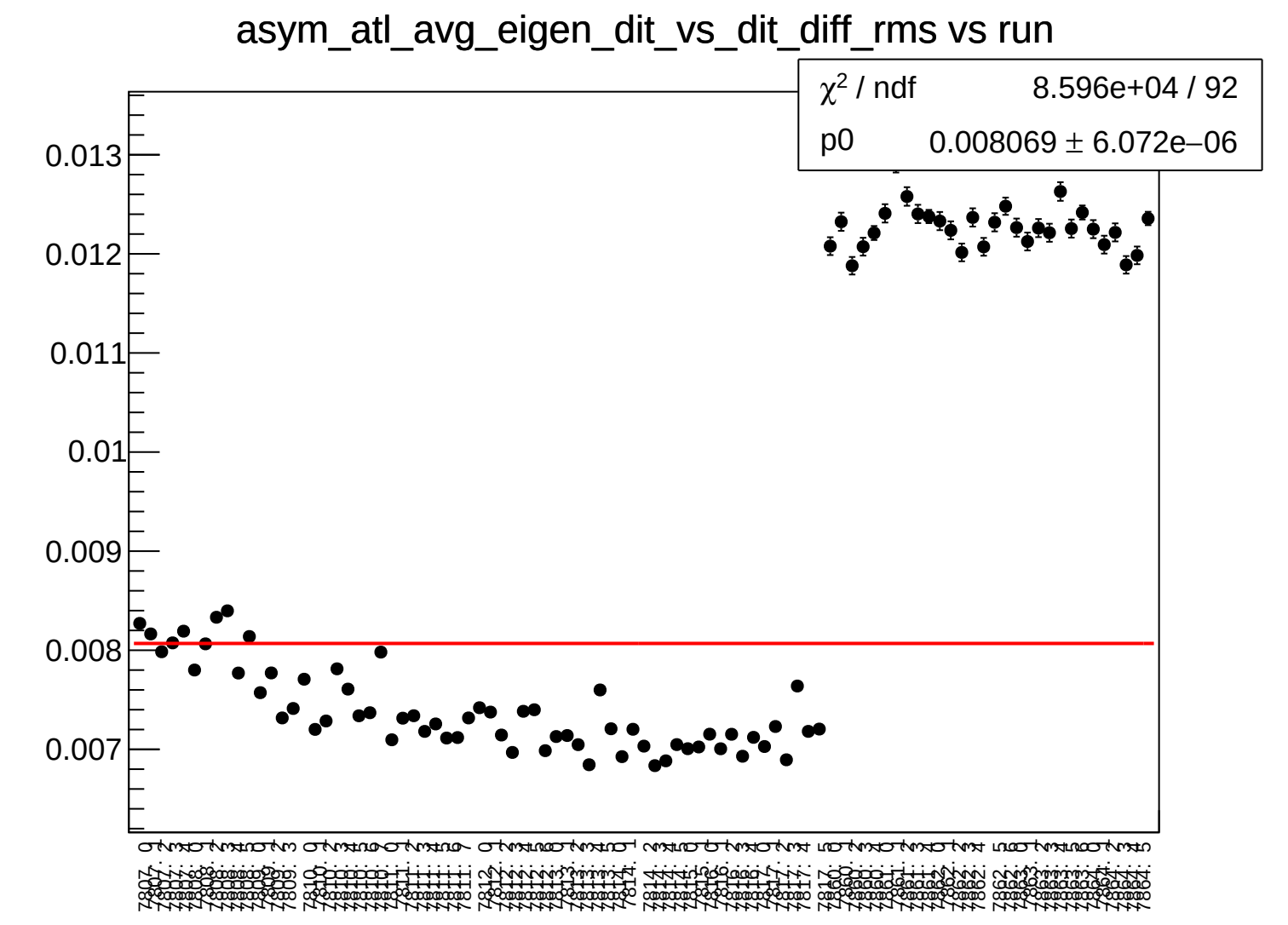

asym_atl_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.1 / 92
p0 0.1962 ± 0.1963
pull
Entries 93
Mean −25.94
Std Dev 0

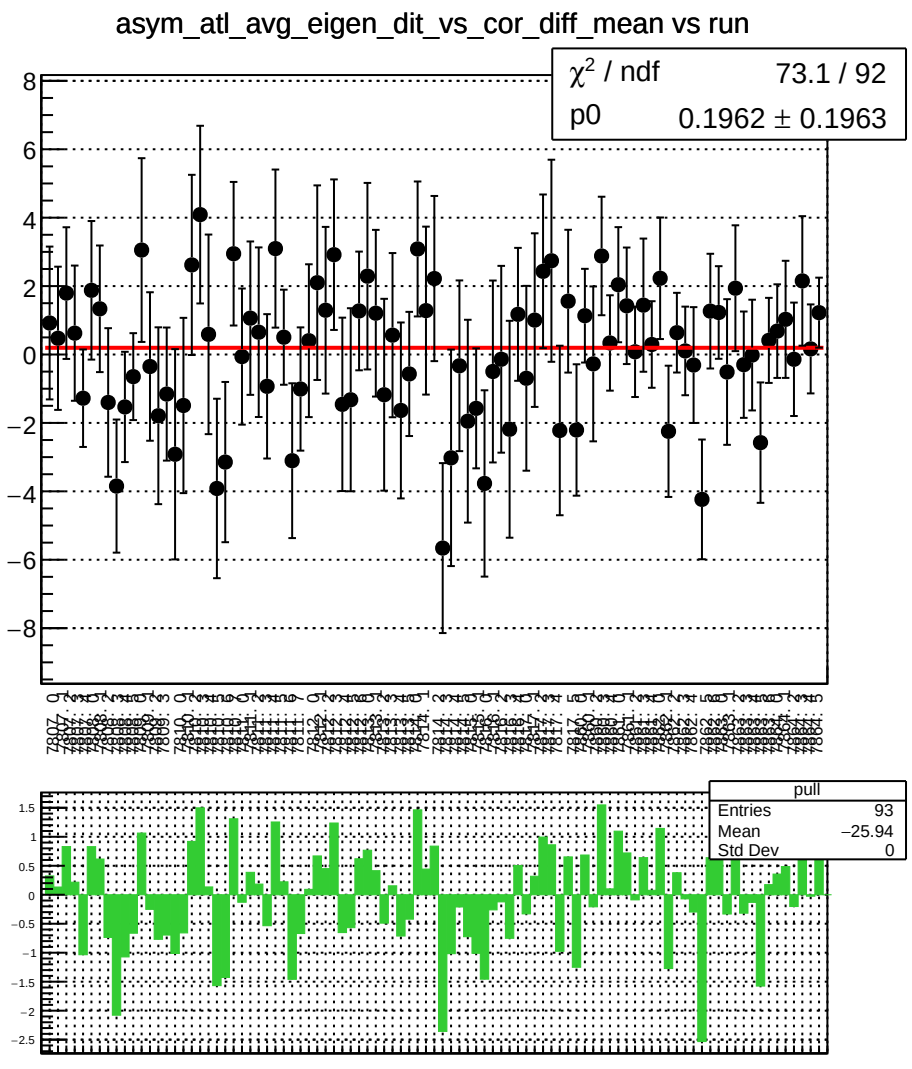

pull1D
Entries 93
Mean −0.03134
Std Dev 0.886

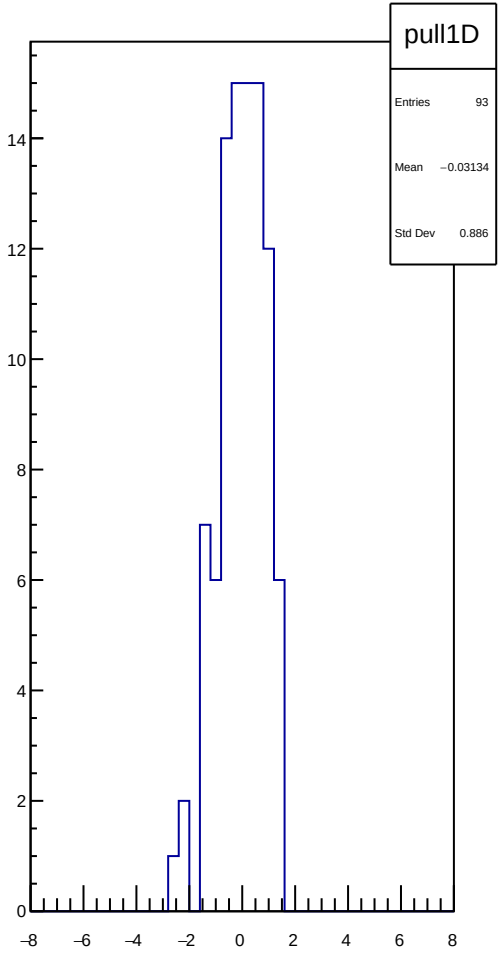

asym_atl_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.045e+05 / 92
p0 183.4 ± 0.1388
300
250
200
150
100

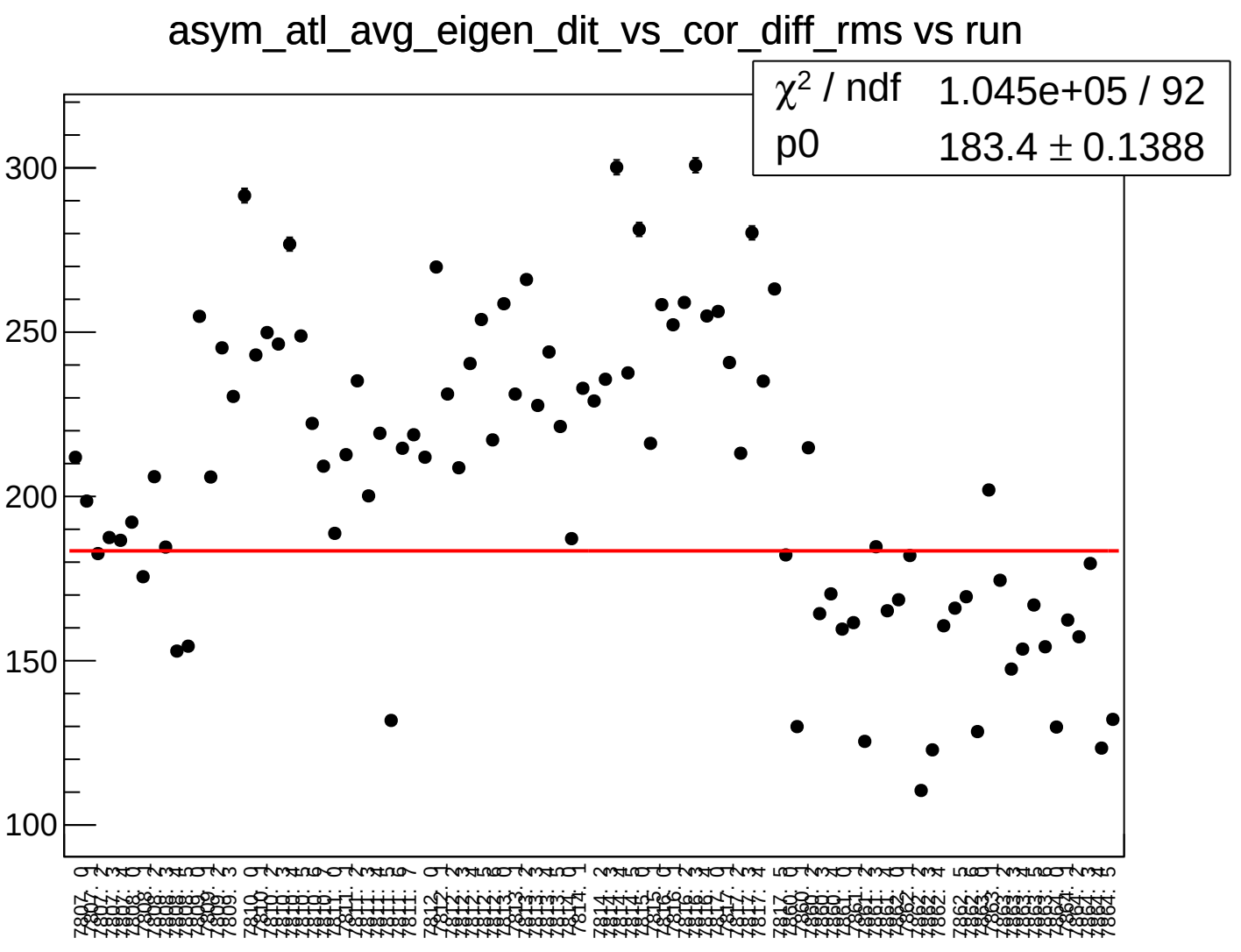

asym_atl_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 79.71 / 92
p0 9.387e−06 ± 8.587e−06
pull
Entries 93
Mean 45.93
Std Dev 75.32

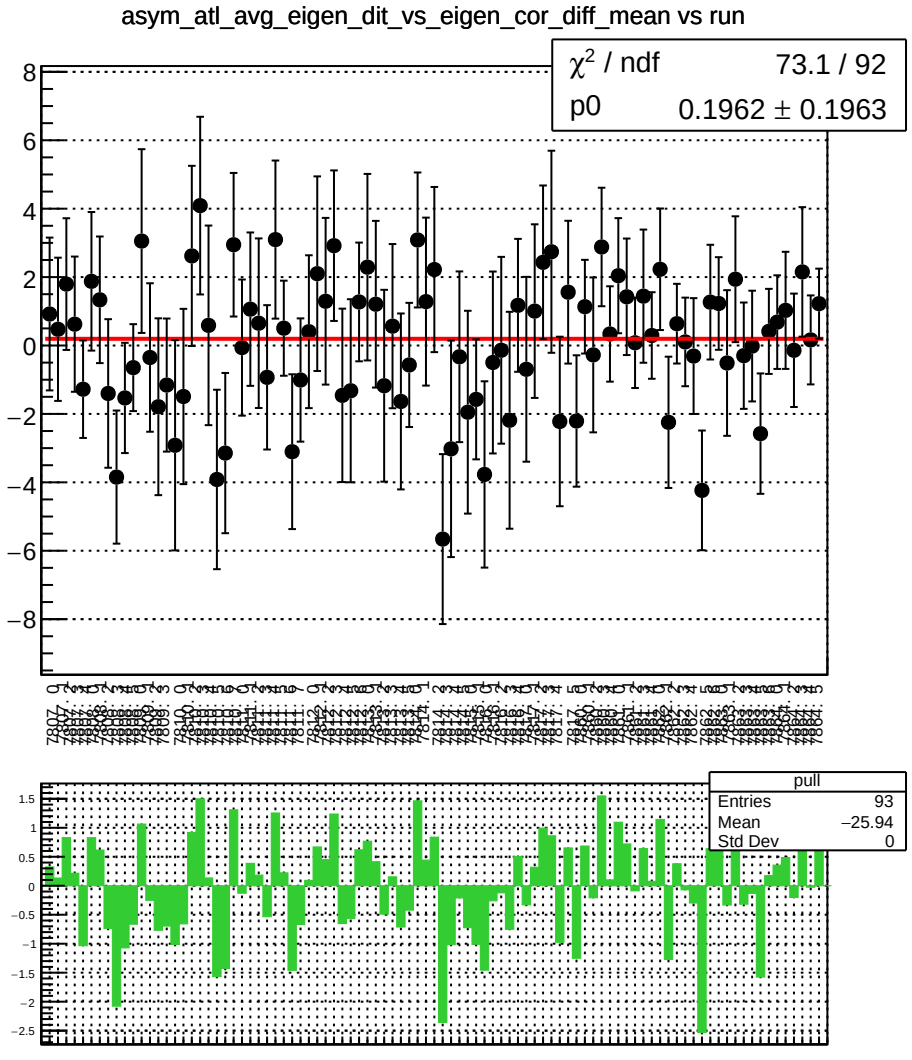

pull1D
Entries 93
Mean −0.01238
Std Dev 0.9257

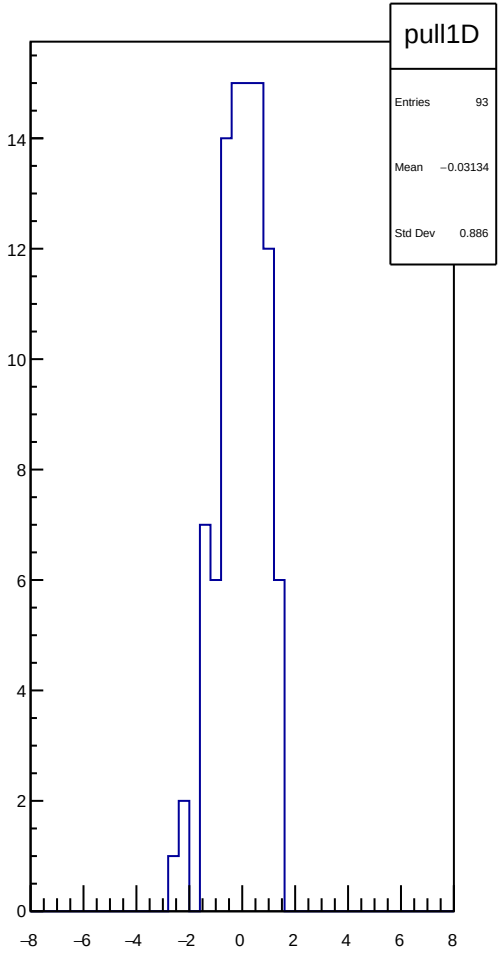

asym_atl_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.596e+04 / 92
p0 0.008069 ± 6.072e−06
0.013
0.012
0.011
0.01
0.009
0.008
0.007

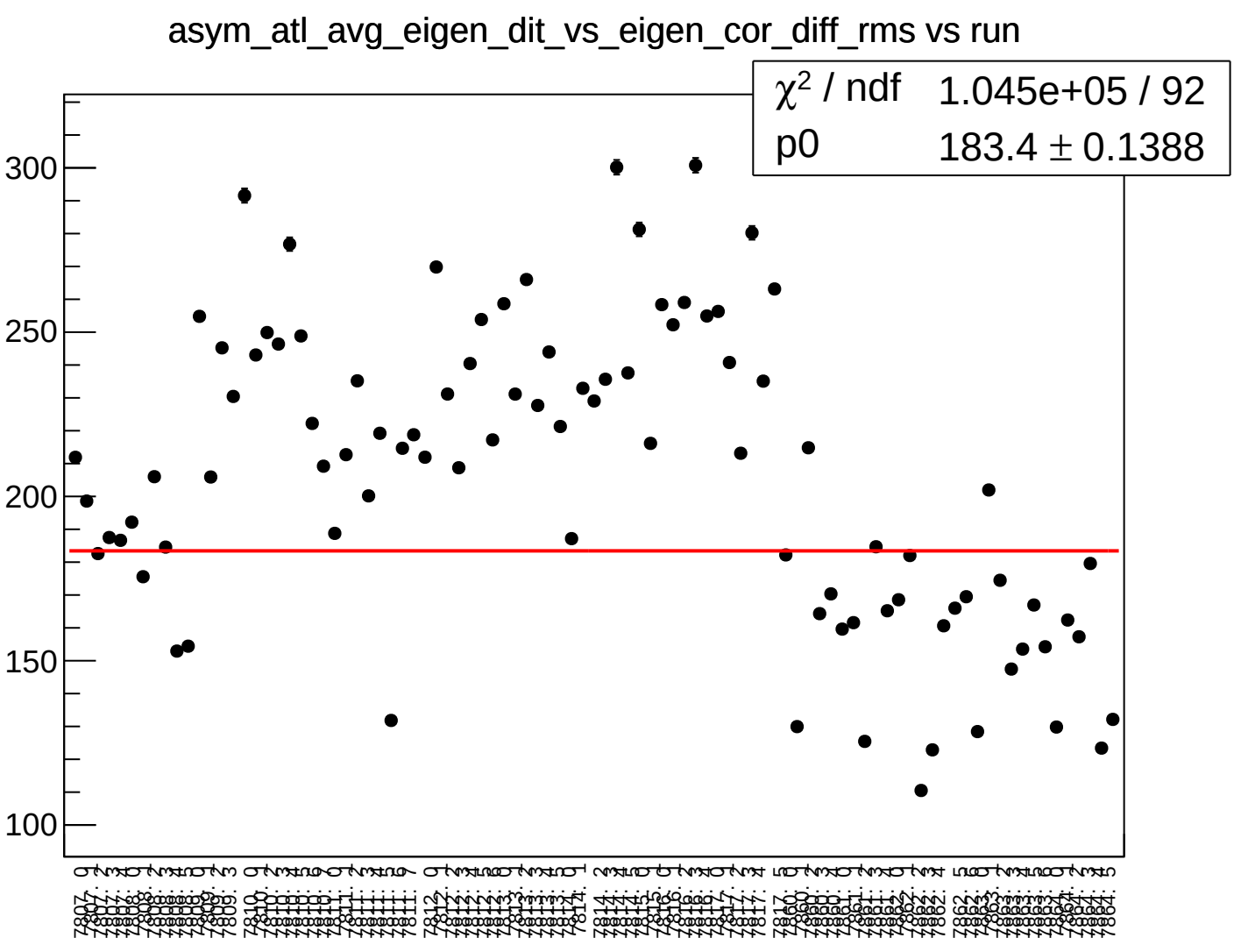

asym_atl_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 73.1 / 92
p0 0.1962 ± 0.1963
pull
Entries 93
Mean −25.94
Std Dev 0

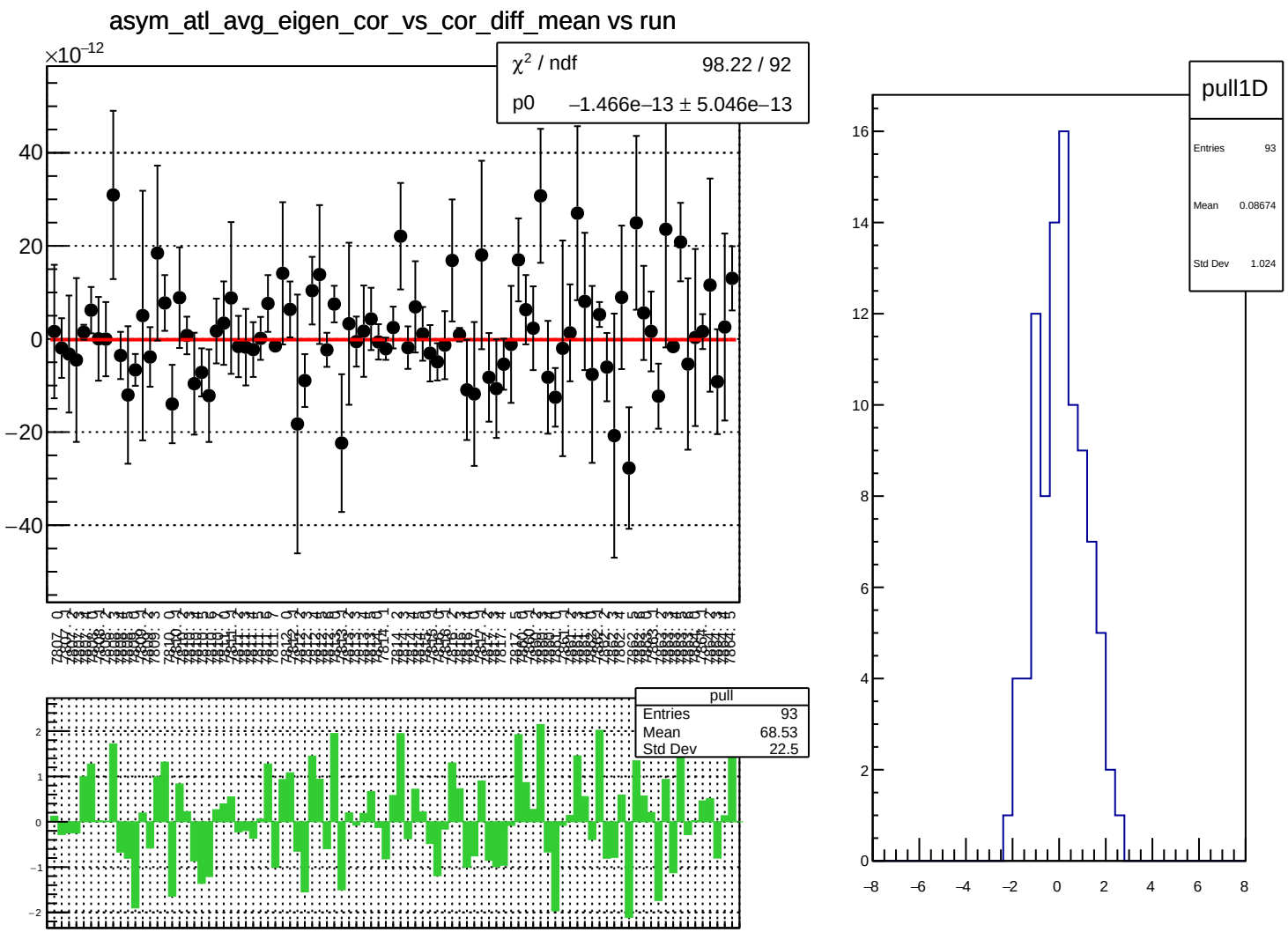

pull1D
Entries 93
Mean −0.03134
Std Dev 0.886

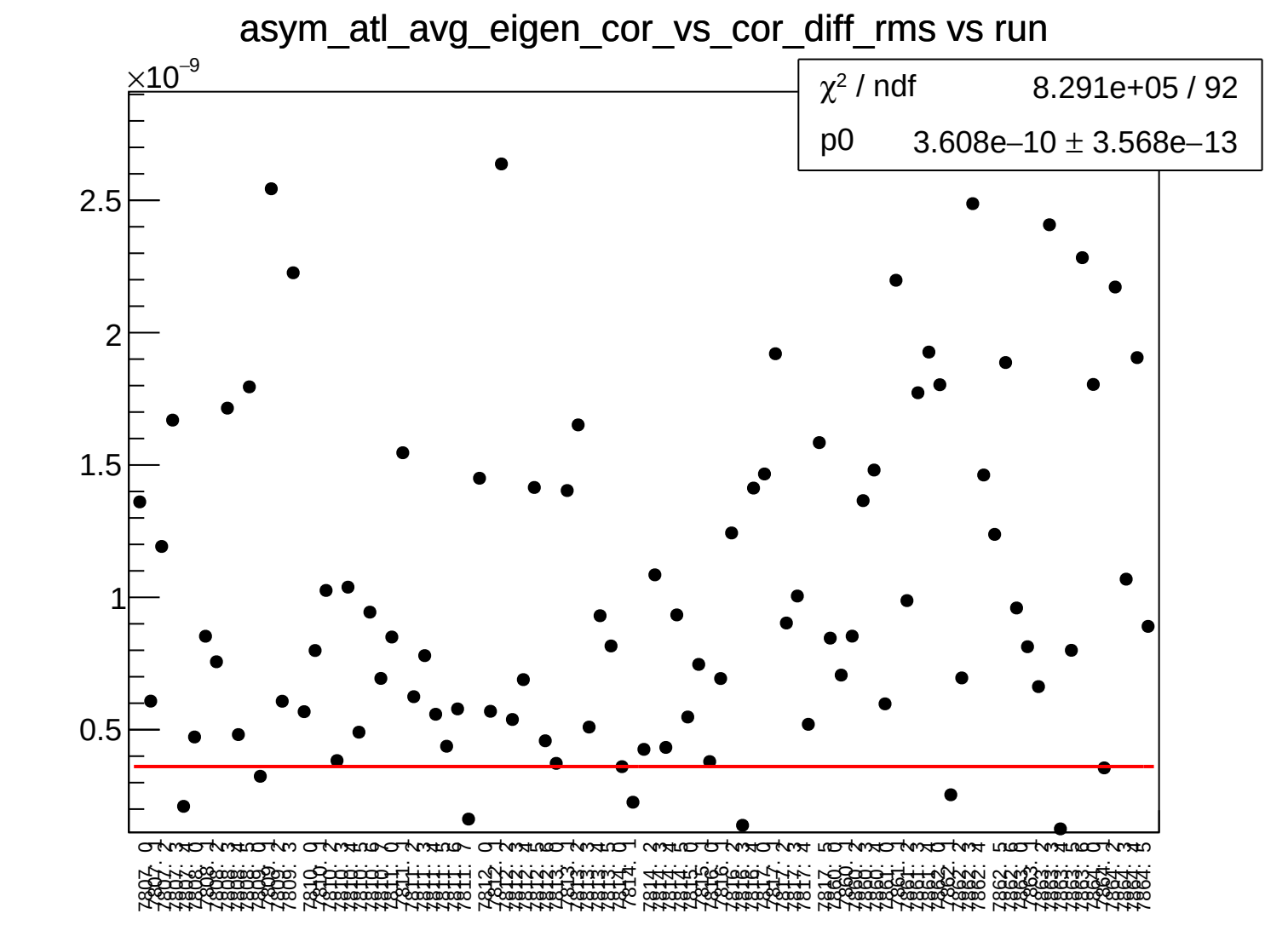

asym_atl_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.045e+05 / 92
p0 183.4 ± 0.1388
300
250
200
150
100

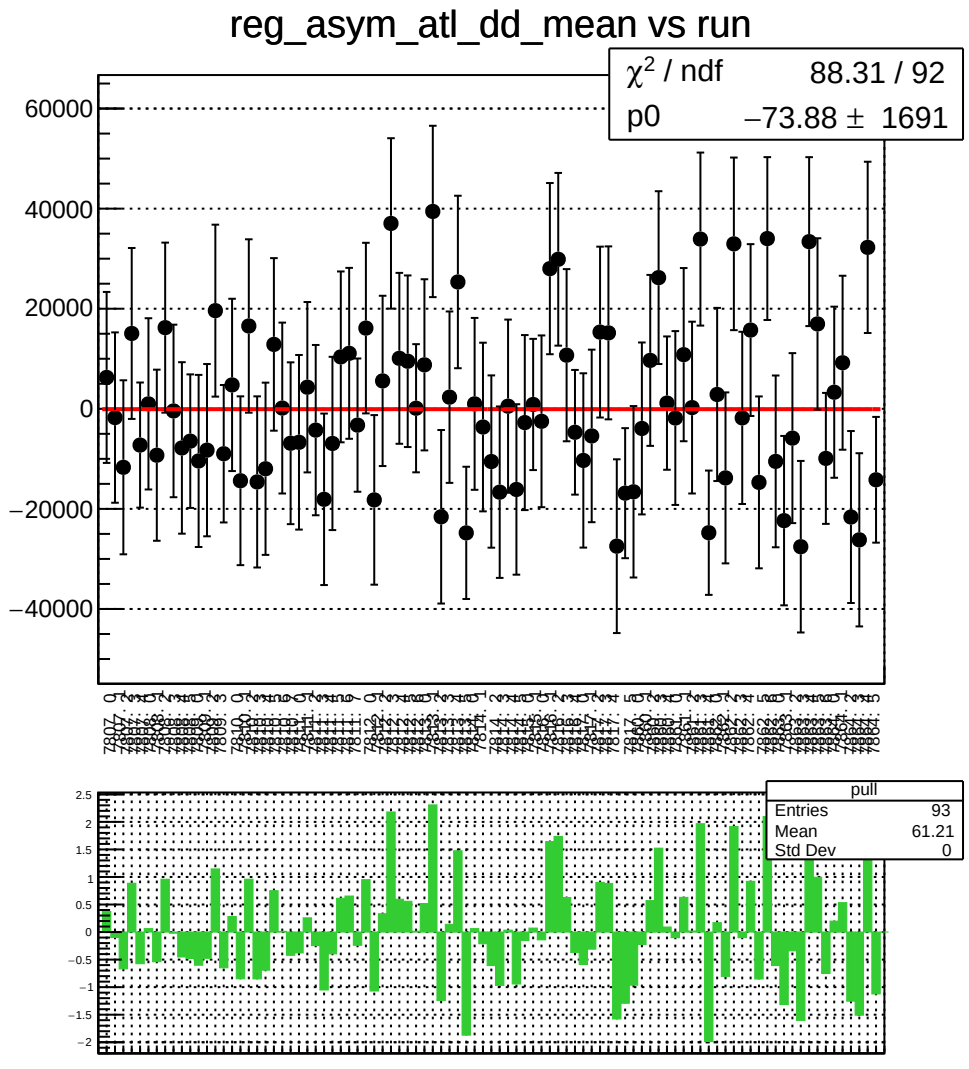

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.1 / 92
p0 0.1962 ± 0.1963
pull
Entries 93
Mean −25.94
Std Dev 0

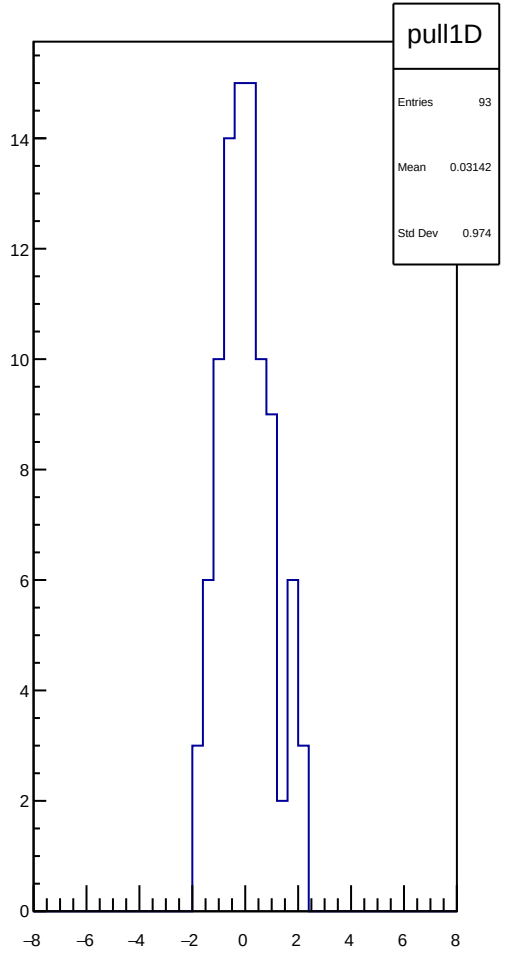

pull1D
Entries 93
Mean −0.03134
Std Dev 0.886

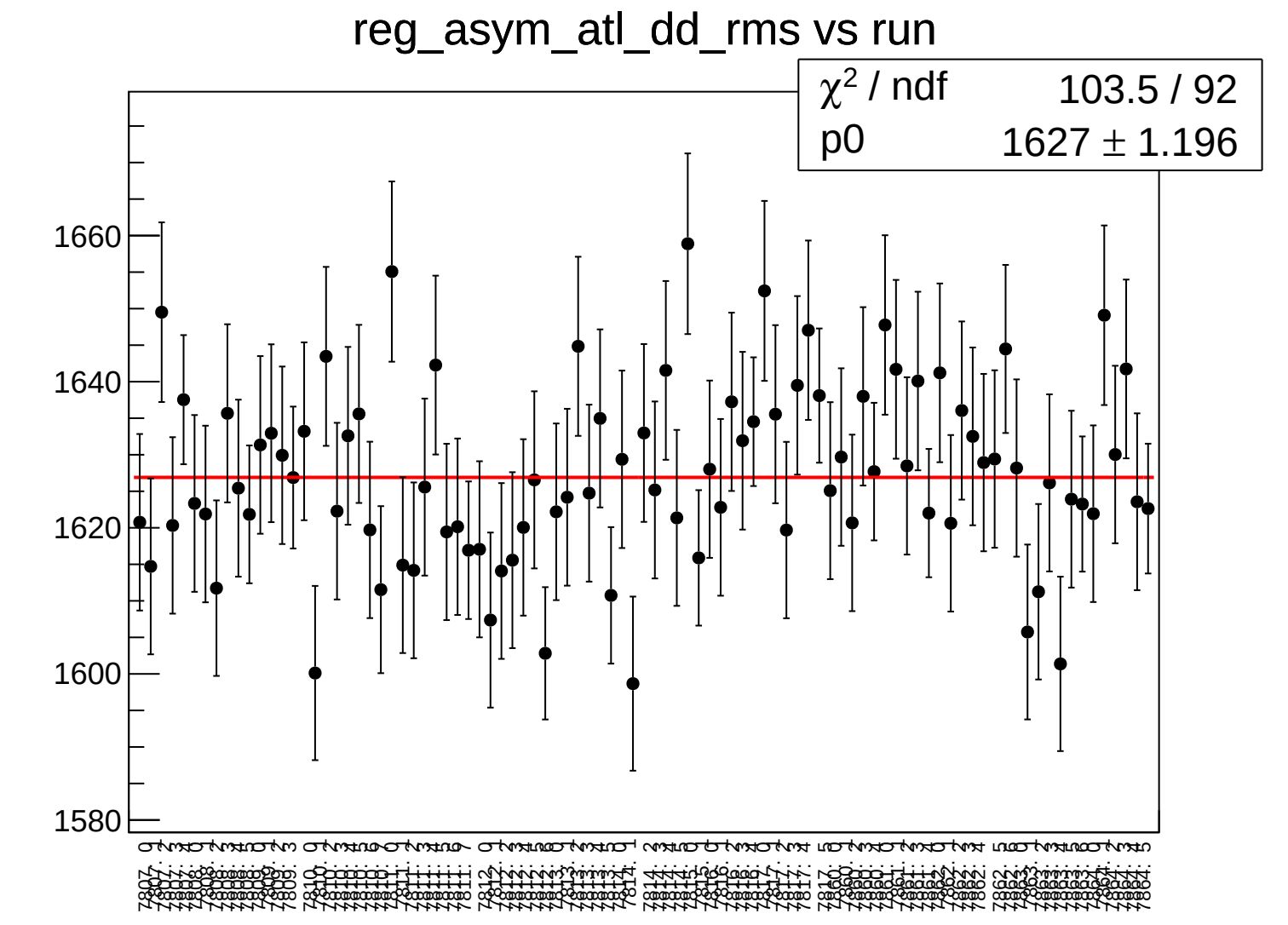

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.045e+05 / 92
p0 183.4 ± 0.1388
300
250
200
150
100

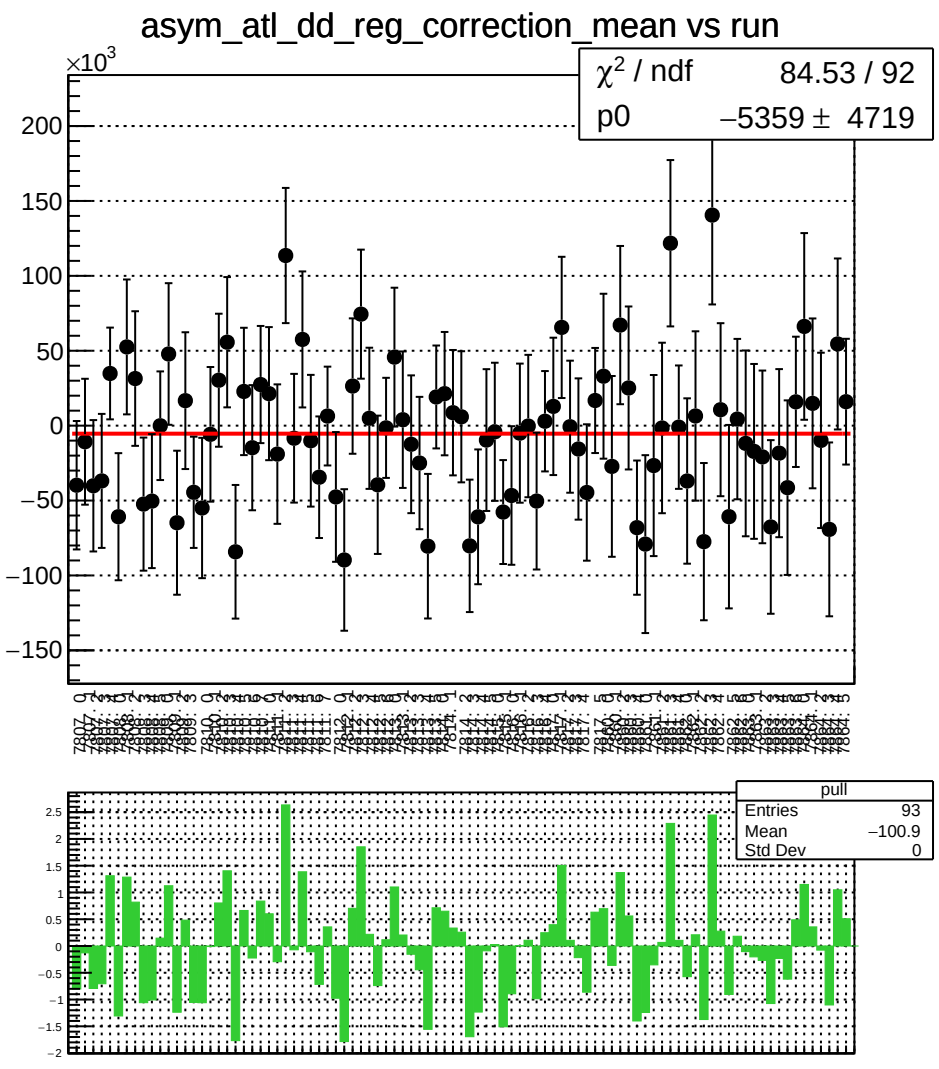

asym_atl_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.22 / 92
p0 −1.466e−13 ± 5.046e−13
40
20
0
−20
−40
pull
Entries 93
Mean 68.53
Std Dev 22.5
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.08674
Std Dev 1.024
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

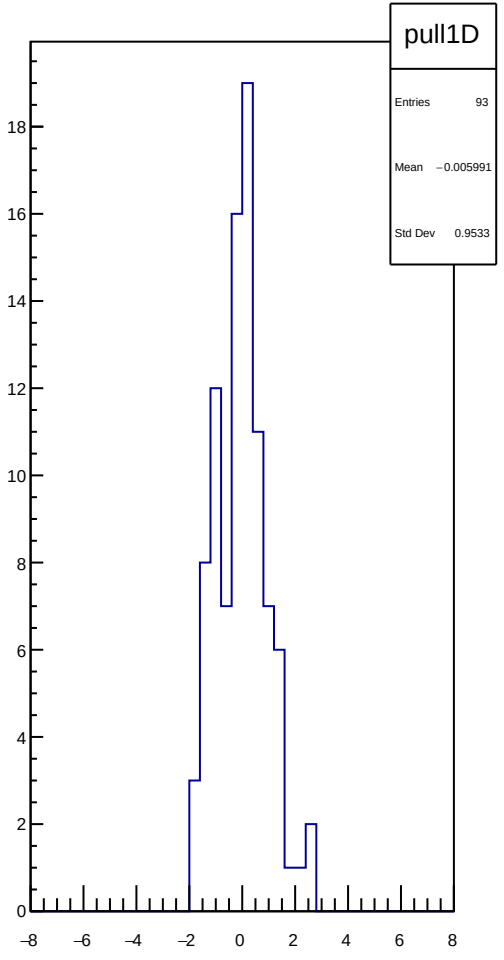

asym_atl_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.291e+05 / 92
p0 3.608e−10 ± 3.568e−13
2.5
2
1.5
1
0.5

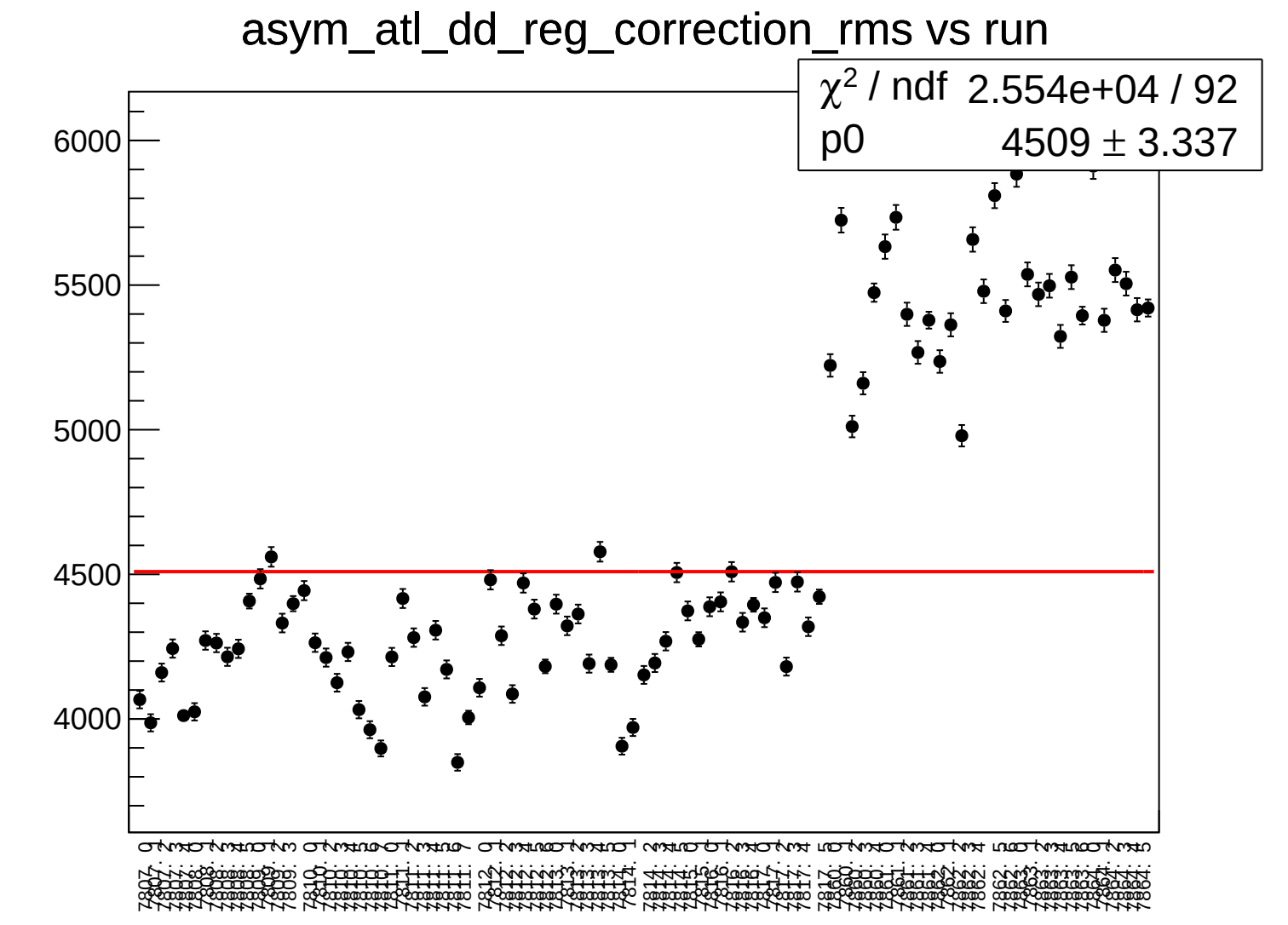

reg_asym_atl_dd_mean vs run
χ² / ndf 88.31 / 92
p0 −73.88 ± 1691
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 61.21
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

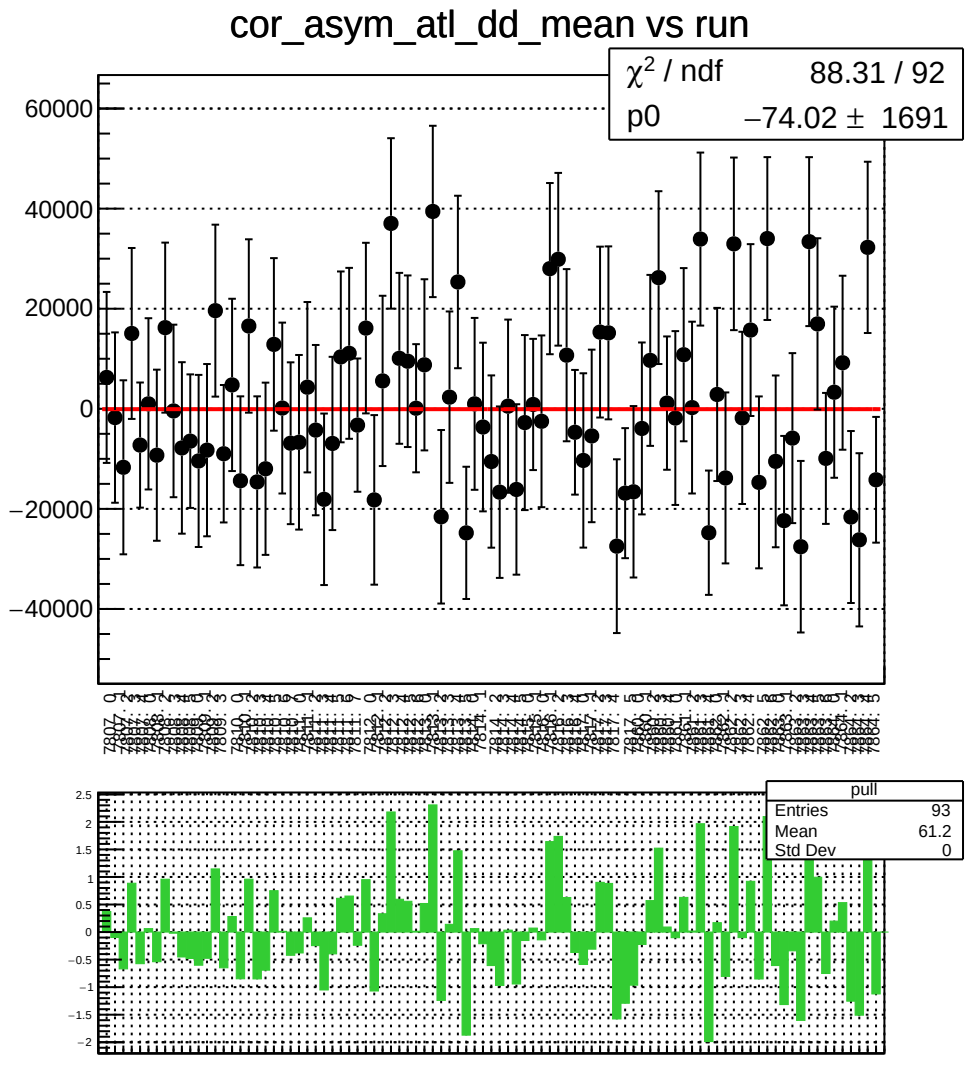

pull1D
Entries 93
Mean 0.03142
Std Dev 0.974
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

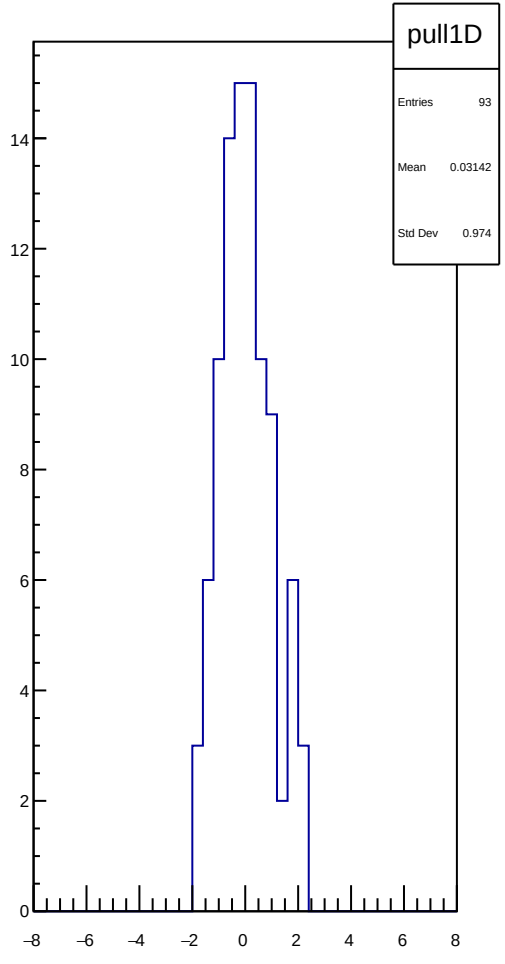

reg_asym_atl_dd_rms vs run
χ^2 / ndf 103.5 / 92
p0 1627 ± 1.196
1660
1640
1620
1600
1580

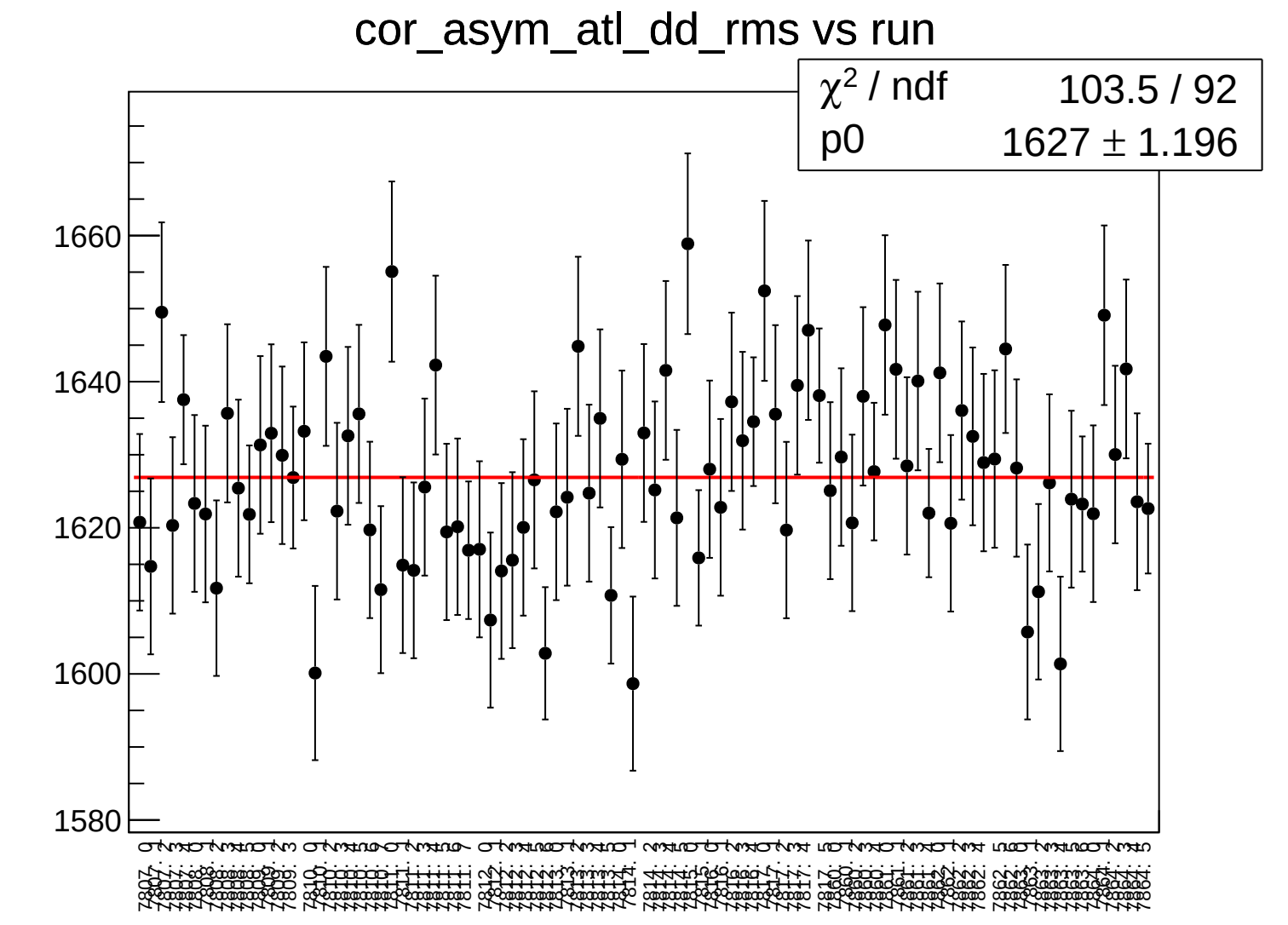

asym_atl_dd_reg_correction_mean vs run
×10^3
χ² / ndf 84.53 / 92
p0 −5359 ± 4719
200
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean −100.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

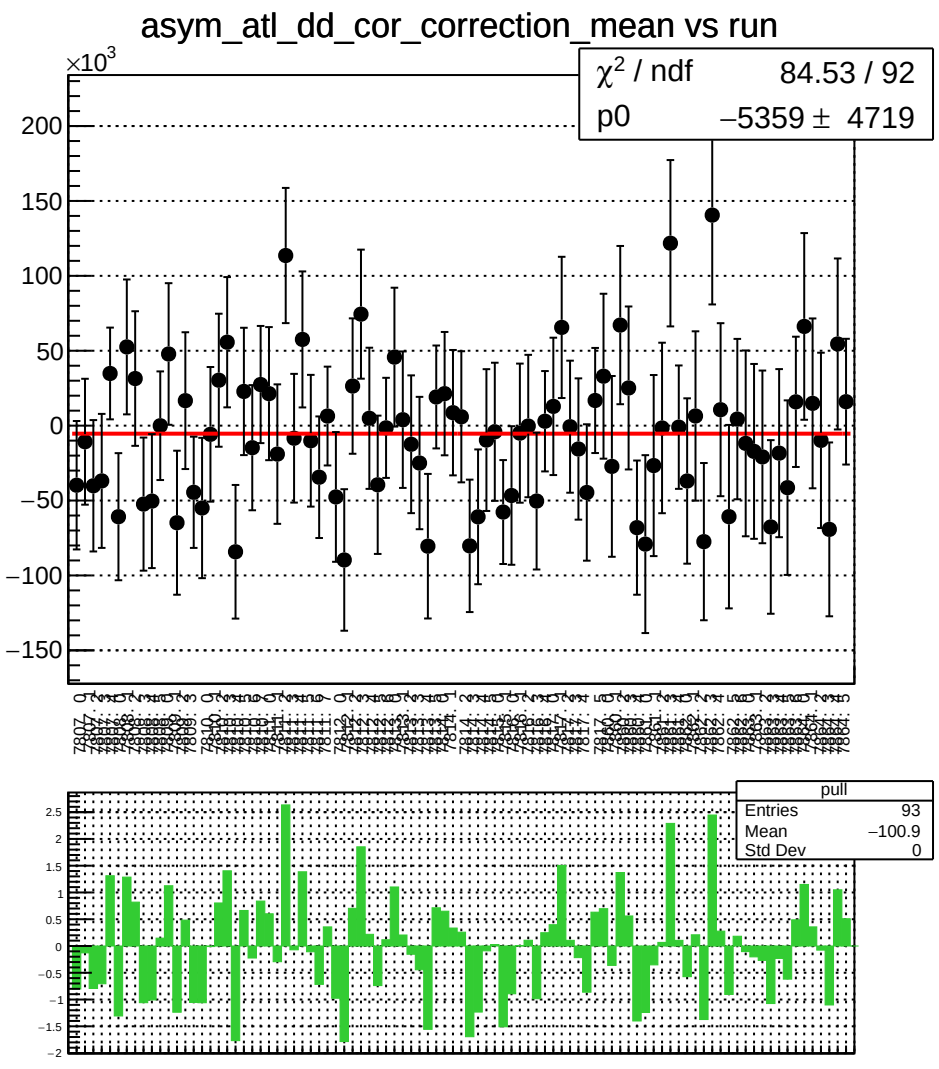

pull1D
Entries 93
Mean −0.005991
Std Dev 0.9533
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

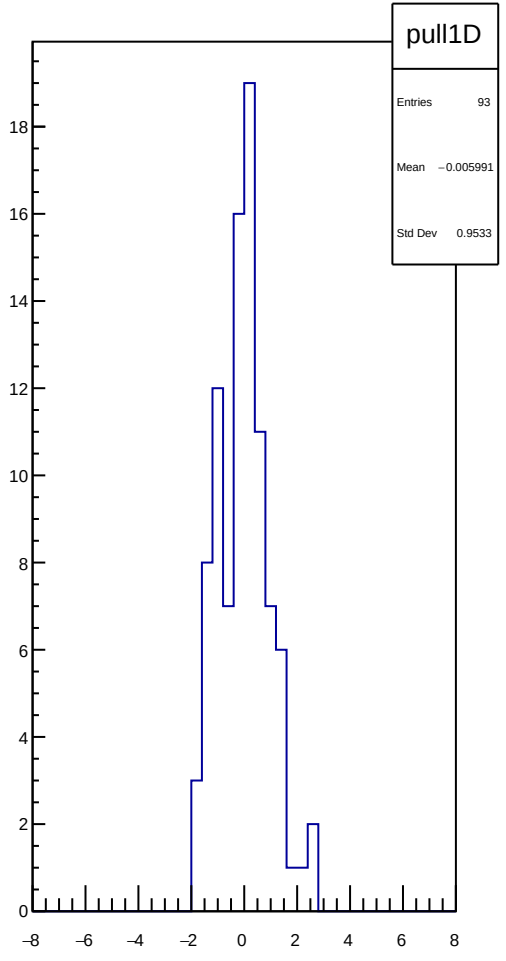

asym_atl_dd_reg_correction_rms vs run
χ² / ndf 2.554e+04 / 92
p0 4509 ± 3.337
6000
5500
5000
4500
4000

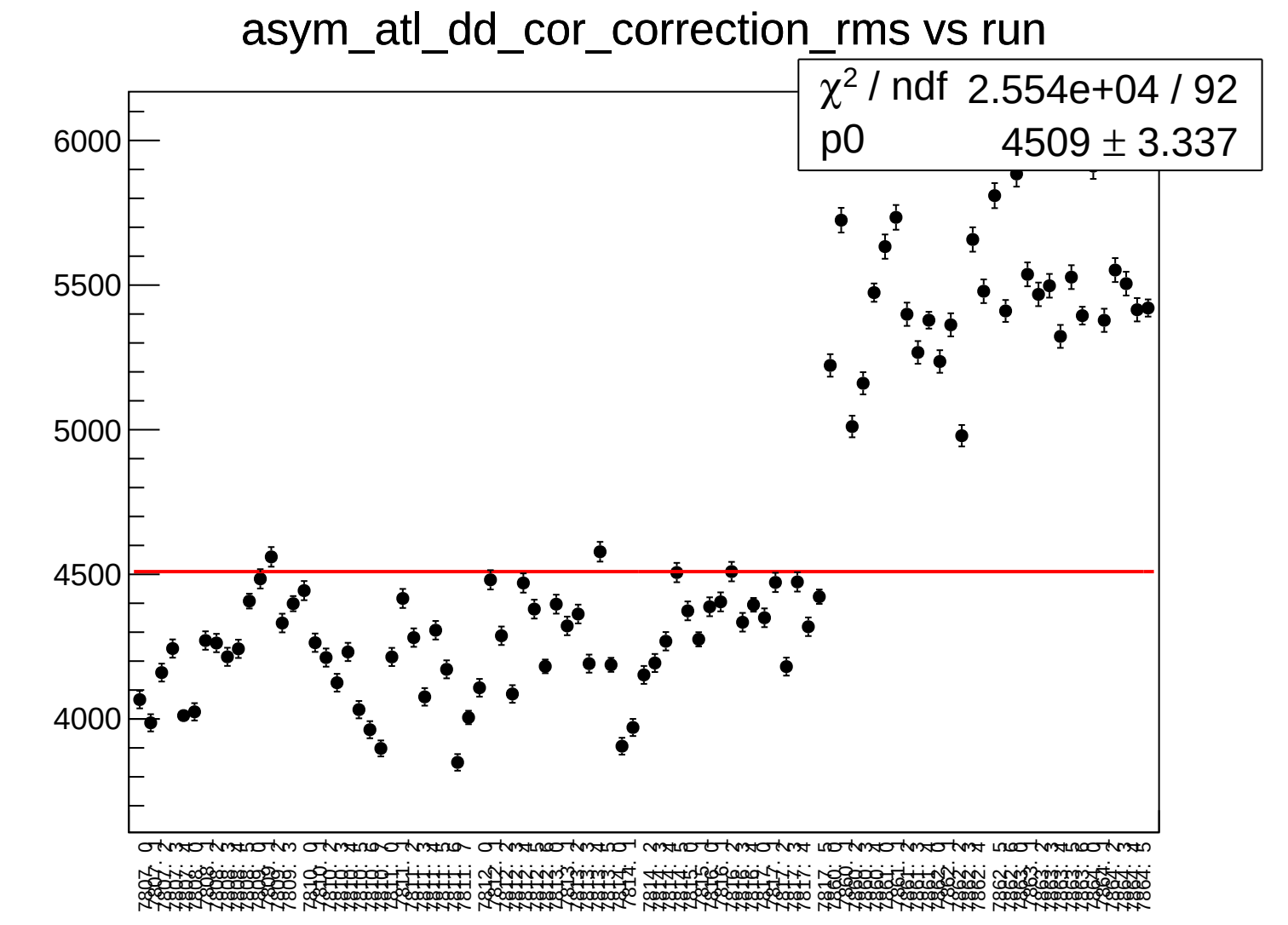

cor_asym_atl_dd_mean vs run
χ² / ndf 88.31 / 92
p0 −74.02 ± 1691
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 61.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

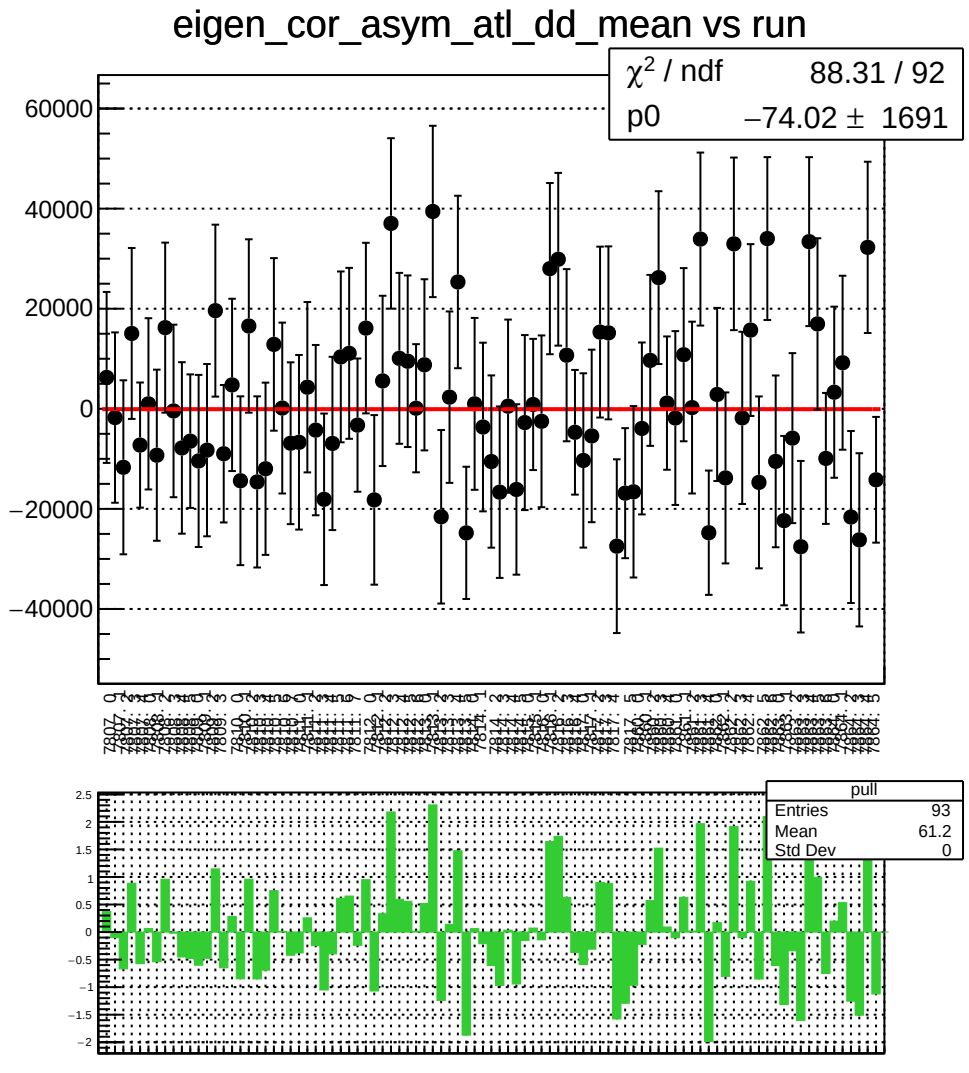

pull1D
Entries 93
Mean 0.03142
Std Dev 0.974
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

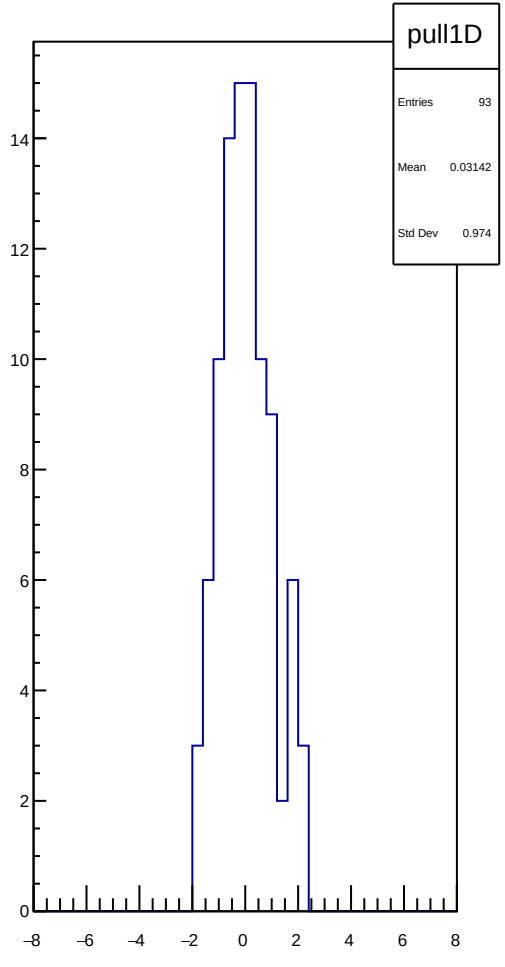

cor_asym_atl_dd_rms vs run
χ^2 / ndf 103.5 / 92
p0 1627 ± 1.196
1660
1640
1620
1600
1580


asym_atl_dd_cor_correction_mean vs run
×10^3
χ² / ndf 84.53 / 92
p0 −5359 ± 4719
200
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean −100.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 93
Mean −0.005991
Std Dev 0.9533
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 2.554e+04 / 92
p0 4509 ± 3.337
6000
5500
5000
4500
4000


eigen_cor_asym_atl_dd_mean vs run
χ² / ndf 88.31 / 92
p0 −74.02 ± 1691
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 61.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 93
Mean 0.03142
Std Dev 0.974
14
12
10
8
6
4
2
0
−8
−6
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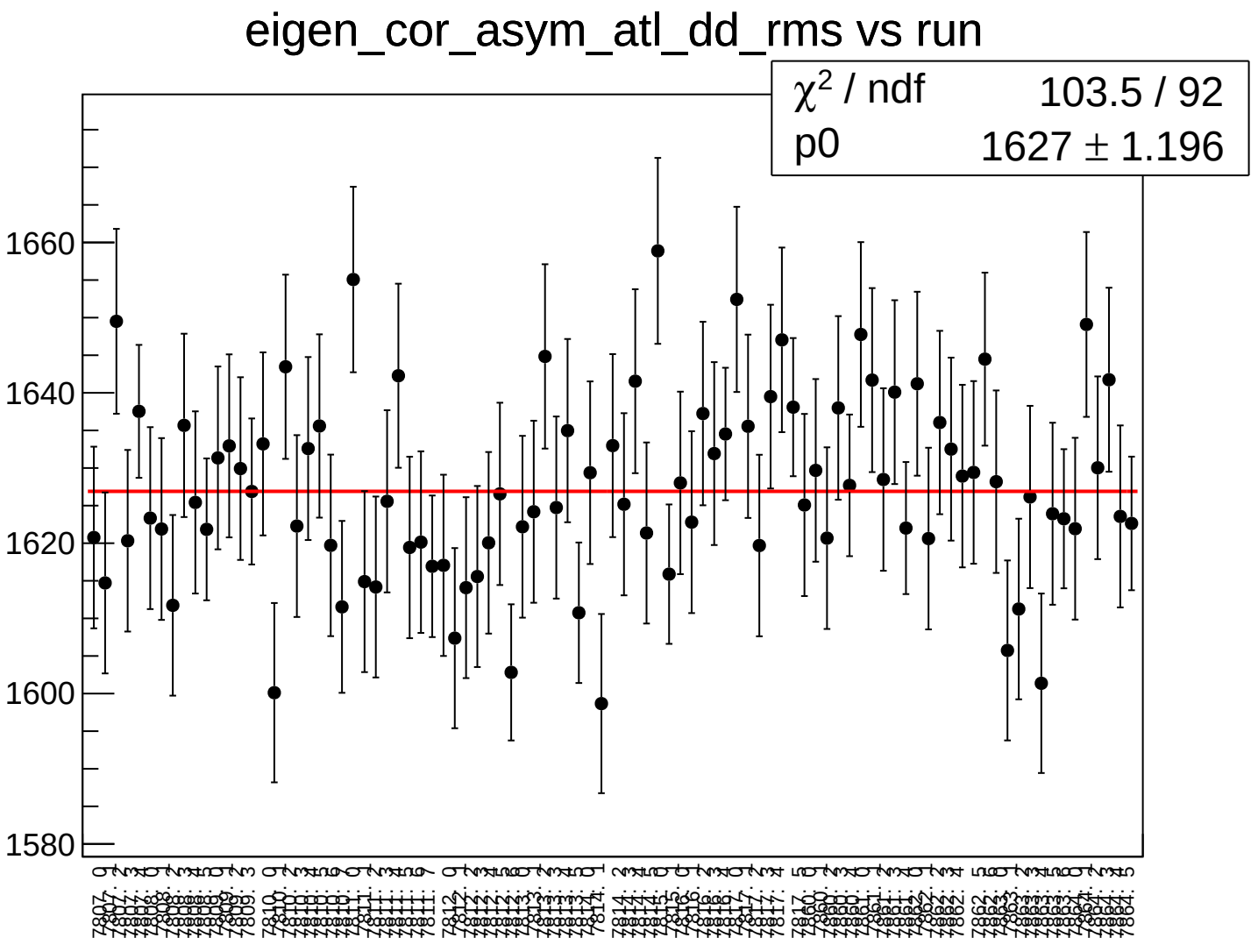
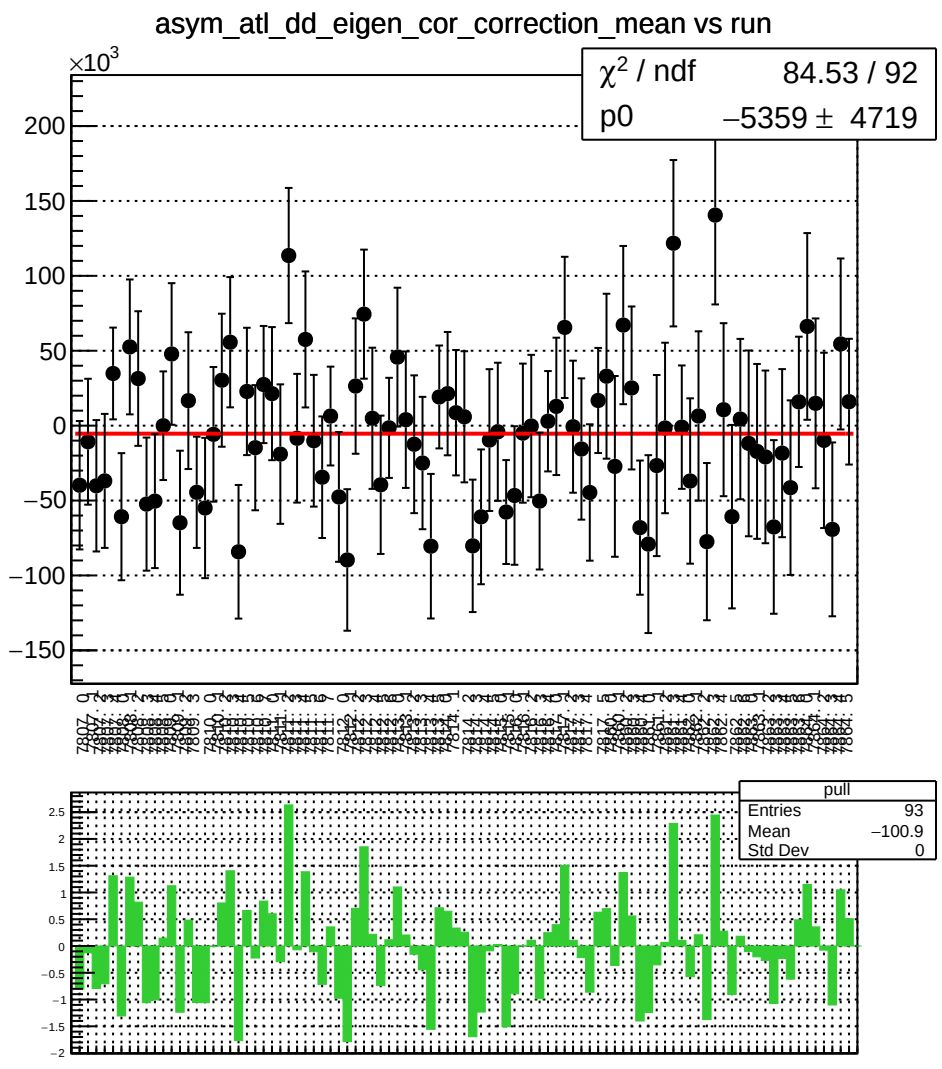
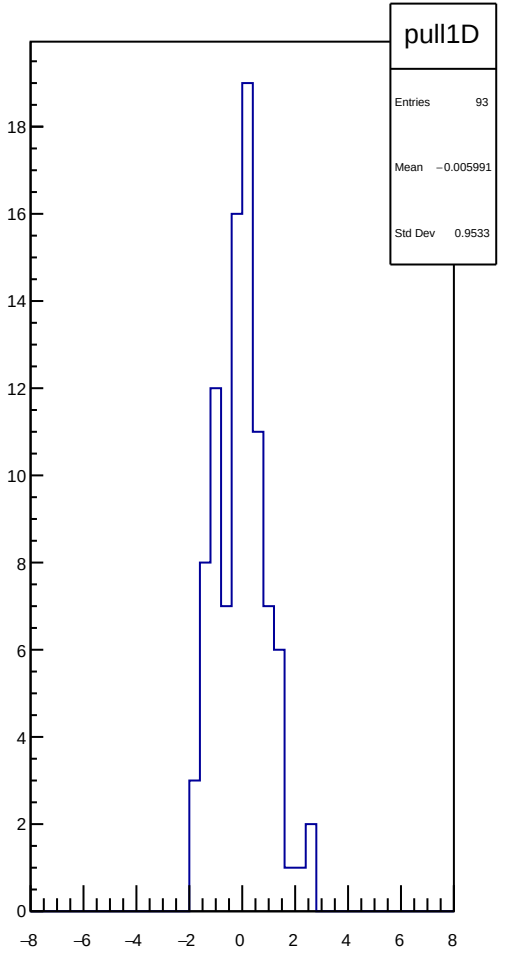
2
4
6
8


eigen_cor_asym_atl_dd_rms vs run
χ² / ndf 103.5 / 92
p0 1627 ± 1.196
1660
1640
1620
1600
1580


asym_atl_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 84.53 / 92
p0 −5359 ± 4719
200
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean −100.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 93
Mean −0.005991
Std Dev 0.9533
18
16
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10
8
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2
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−4
−2
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2
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6
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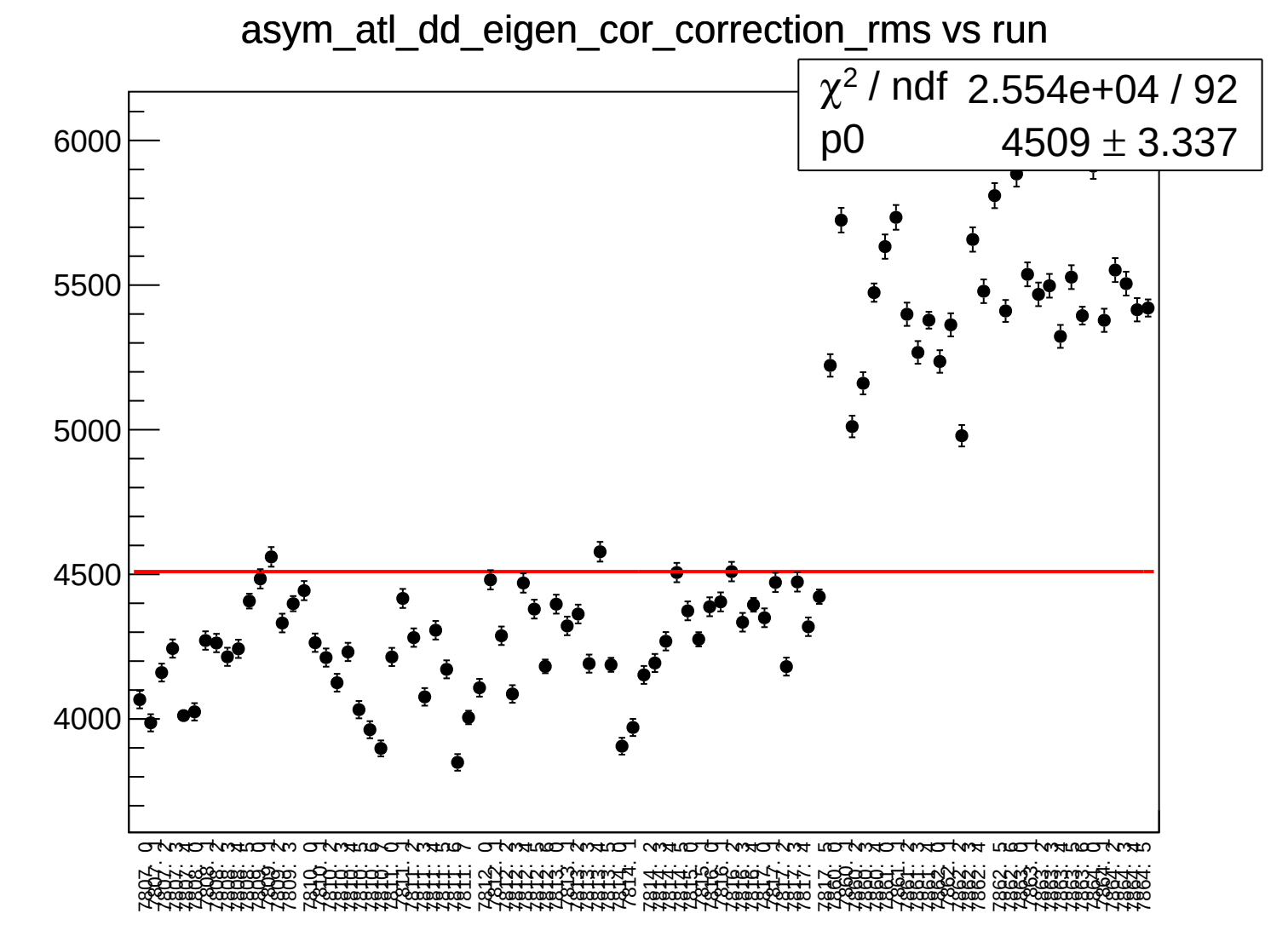
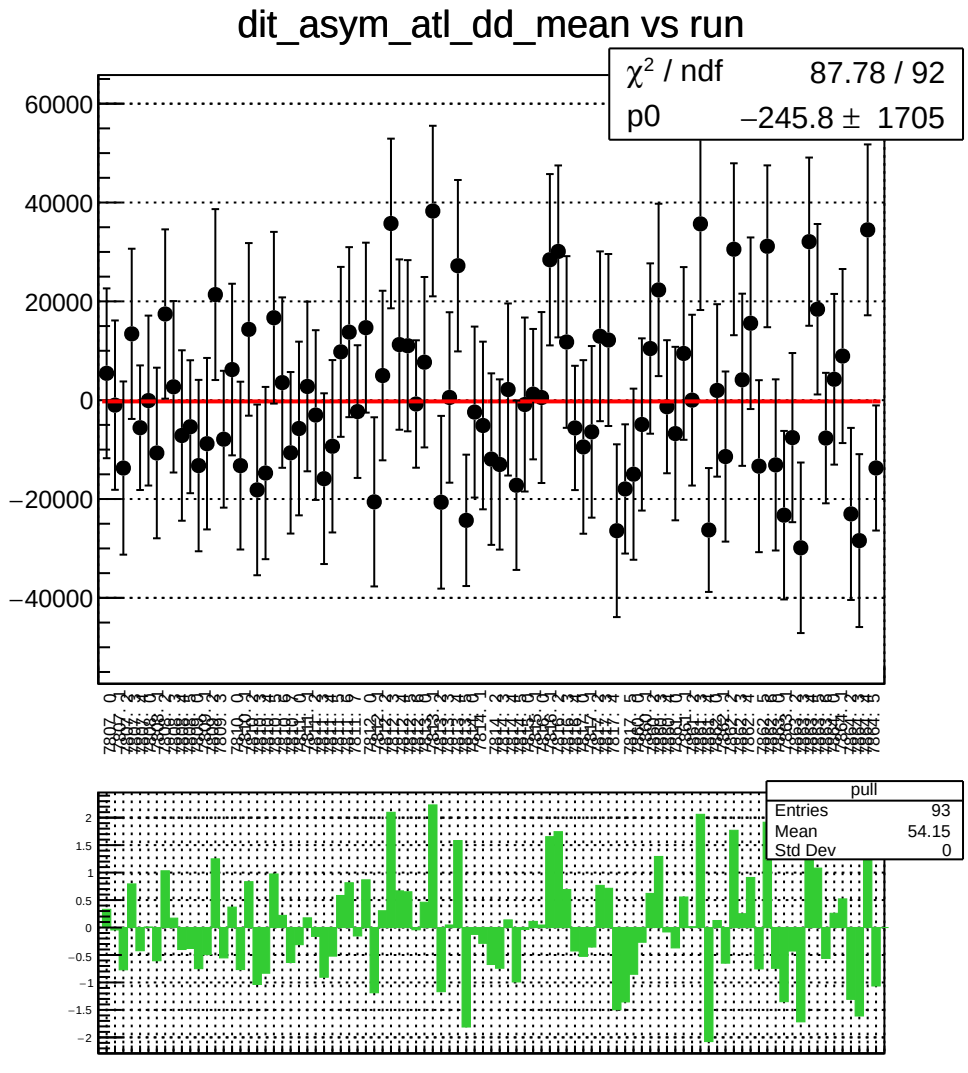
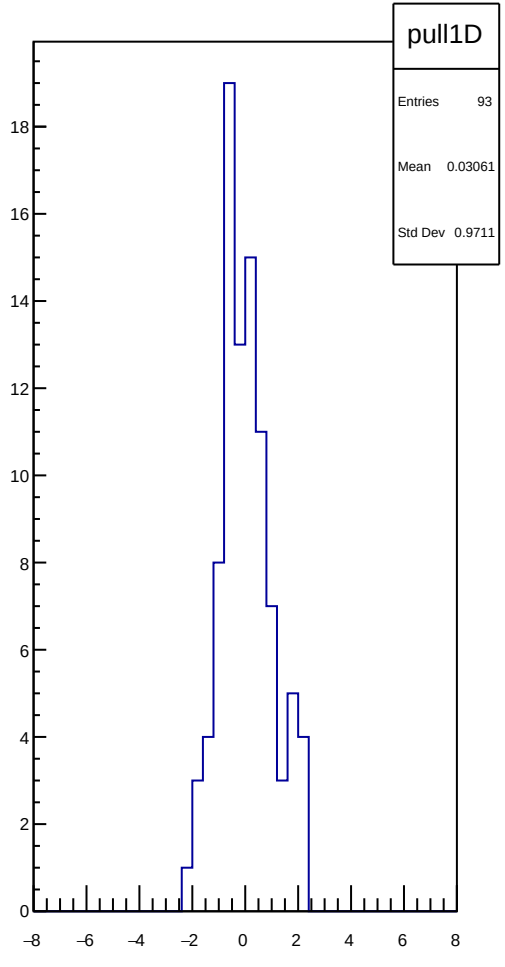
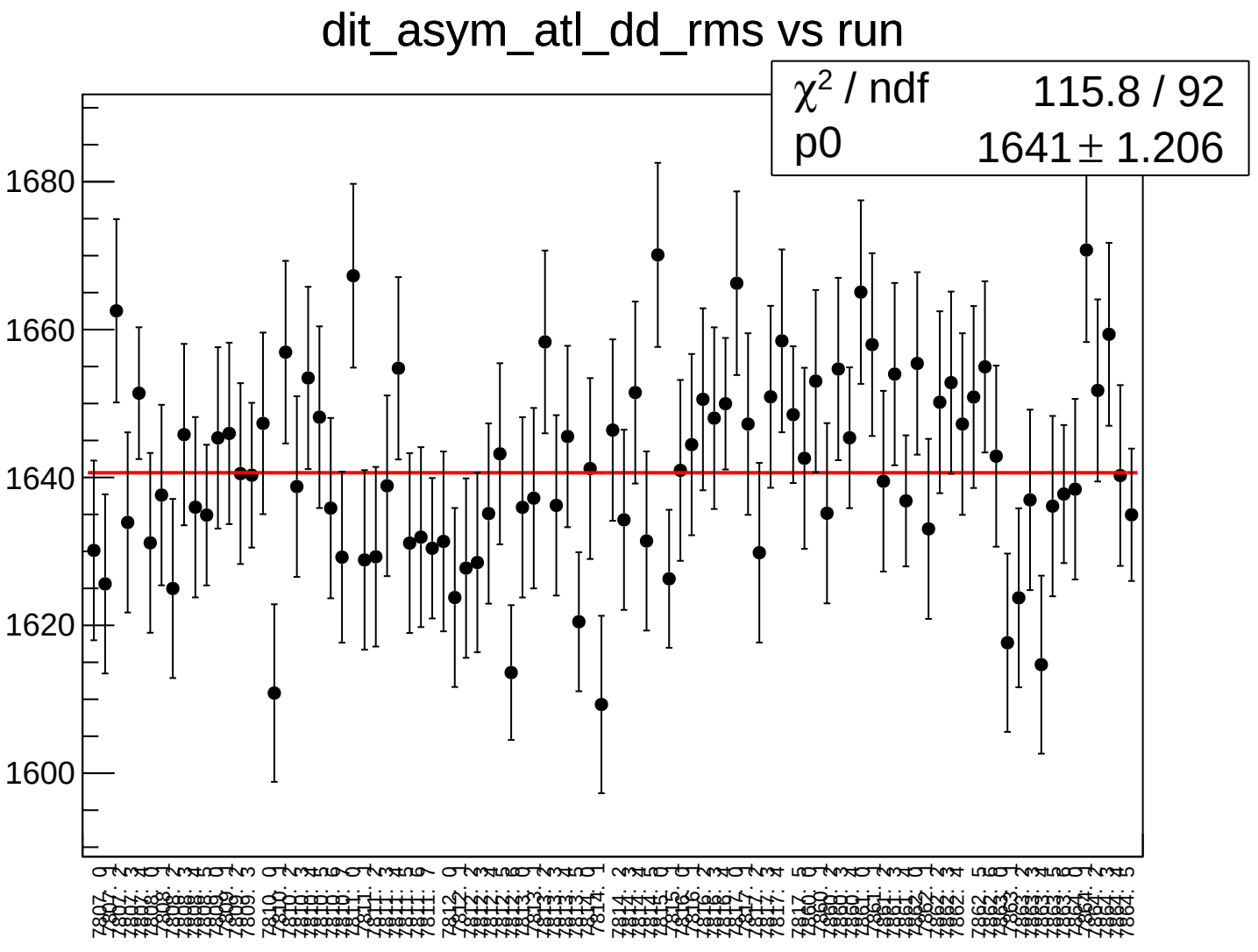
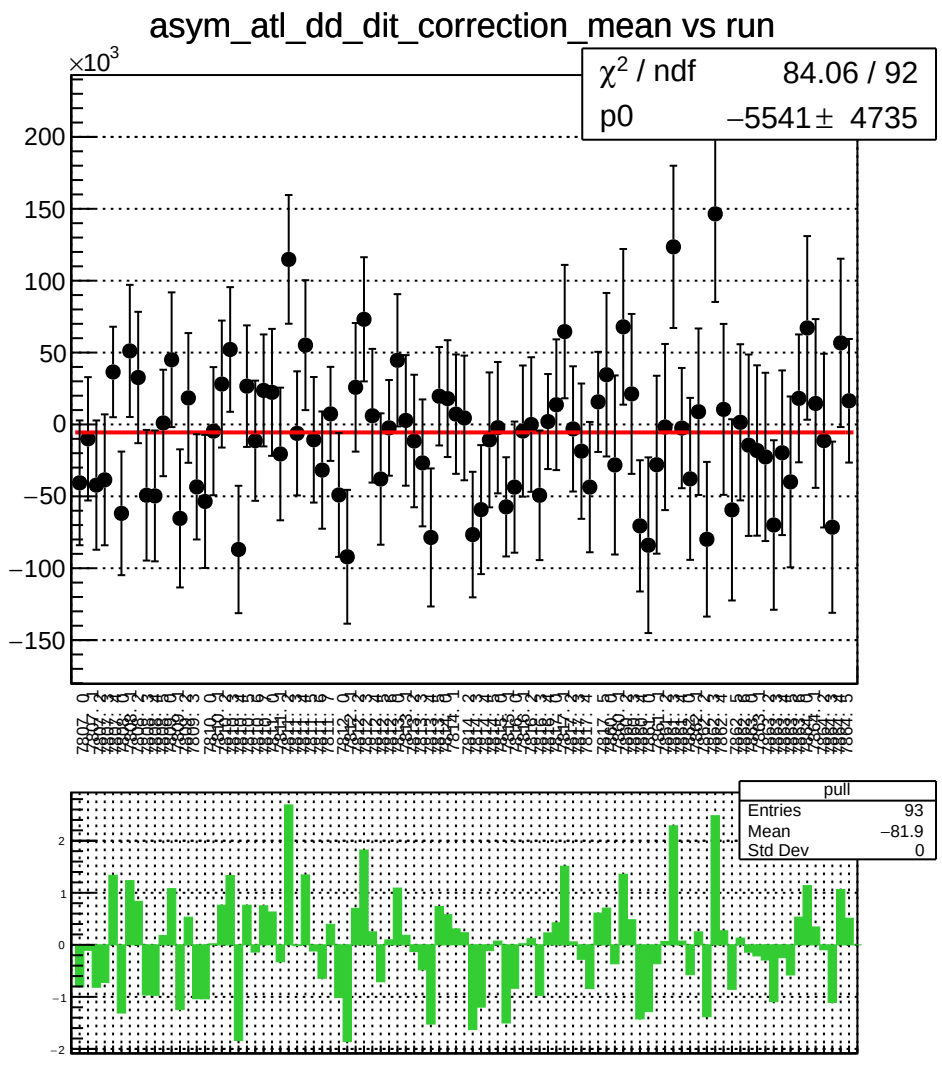
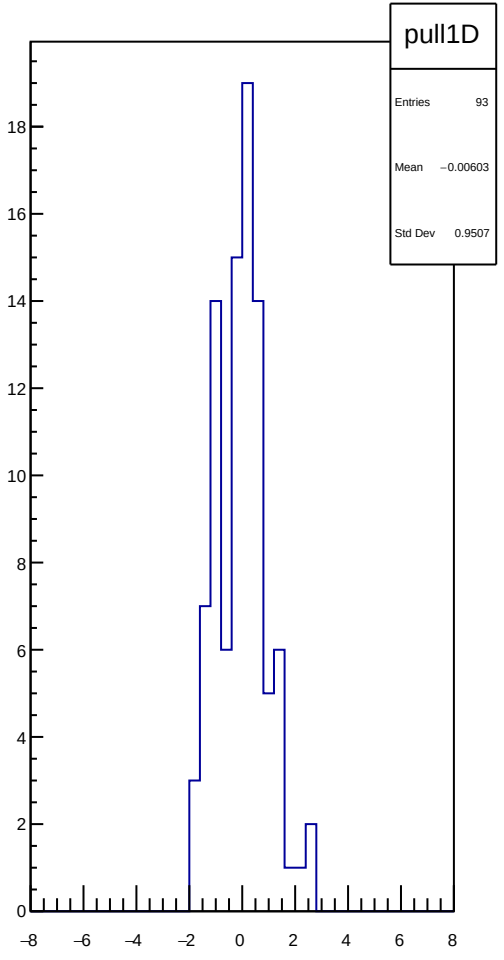

asym_atl_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.554e+04 / 92
p0 4509 ± 3.337
6000
5500
5000
4500
4000

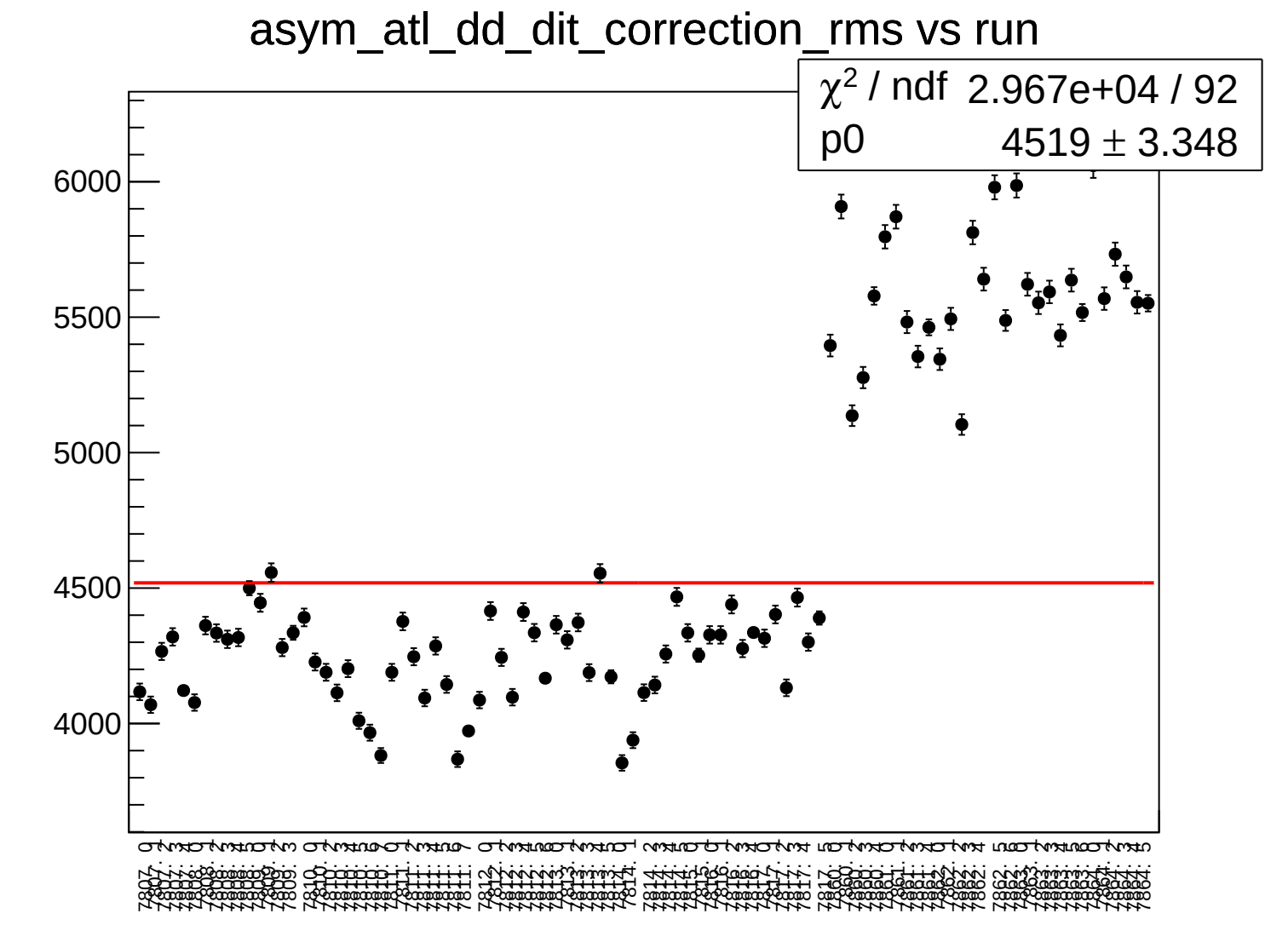

dit_asym_atl_dd_mean vs run
χ² / ndf 87.78 / 92
p0 −245.8 ± 1705
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 54.15
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

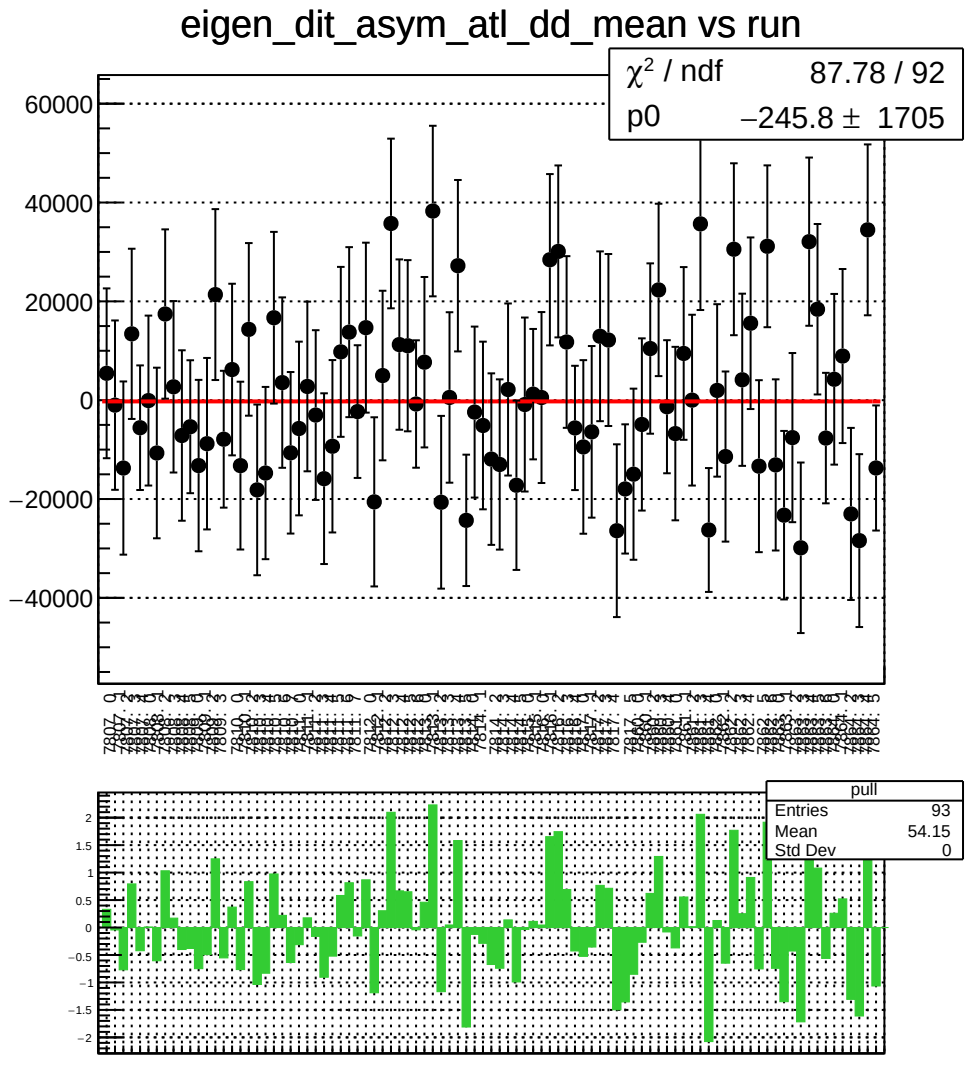

pull1D
Entries 93
Mean 0.03061
Std Dev 0.9711
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

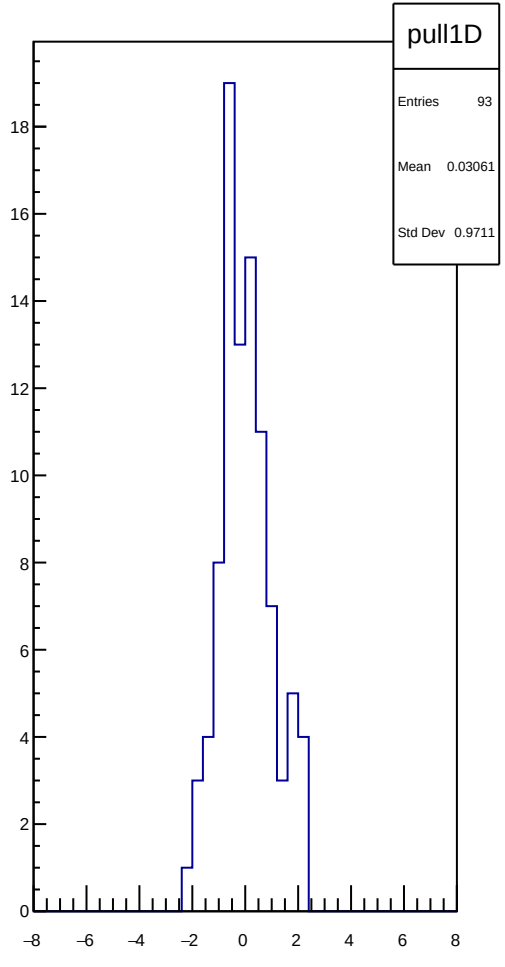

dit_asym_atl_dd_rms vs run
χ² / ndf 115.8 / 92
p0 1641 ± 1.206
1680
1660
1640
1620
1600


asym_atl_dd_dit_correction_mean vs run
×10^3
χ² / ndf 84.06 / 92
p0 −5541 ± 4735
200
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean −81.9
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 93
Mean −0.00603
Std Dev 0.9507
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 2.967e+04 / 92
p0 4519 ± 3.348
6000
5500
5000
4500
4000


eigen_dit_asym_atl_dd_mean vs run
χ² / ndf 87.78 / 92
p0 −245.8 ± 1705
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 54.15
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 93
Mean 0.03061
Std Dev 0.9711
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16
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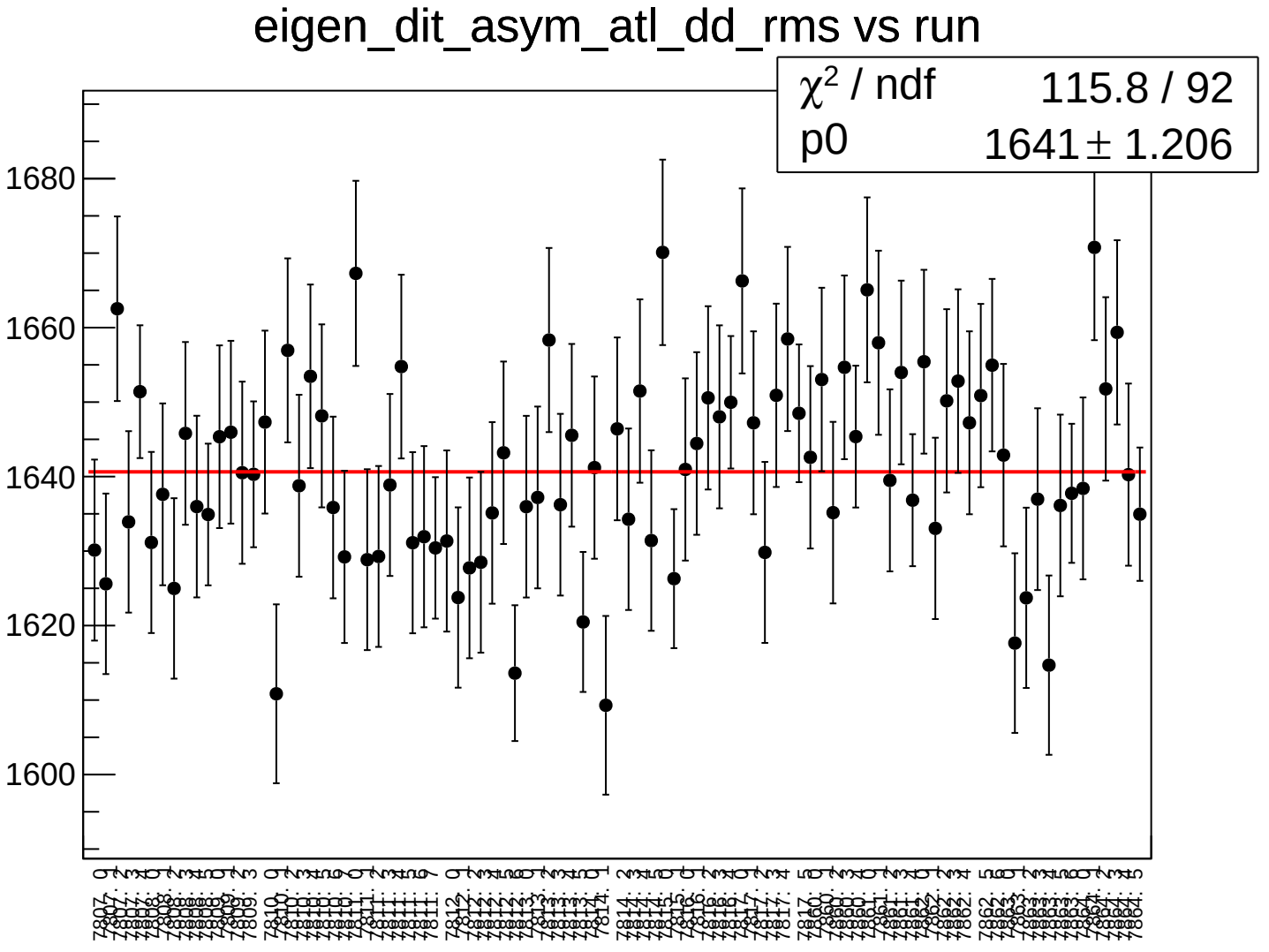
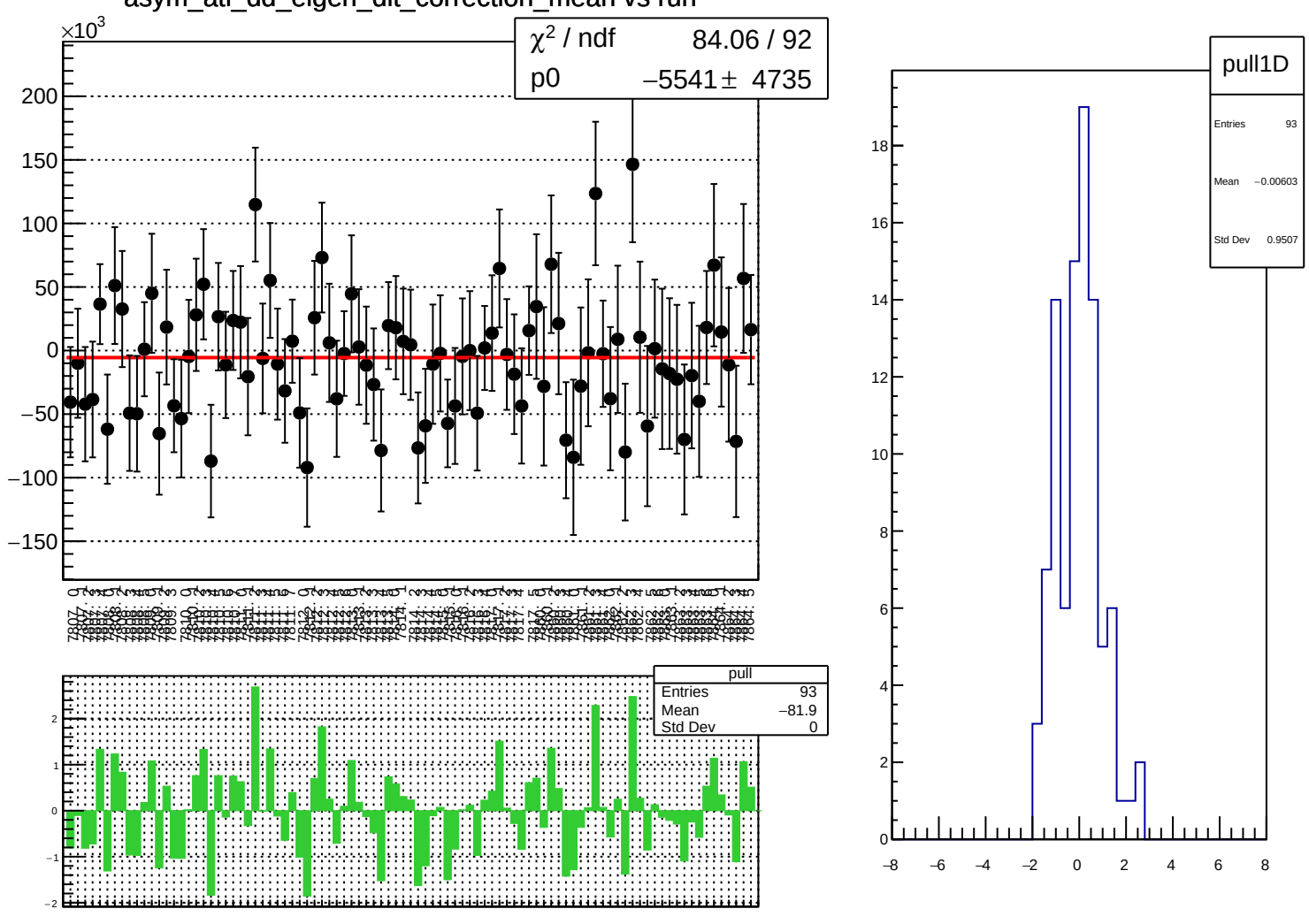
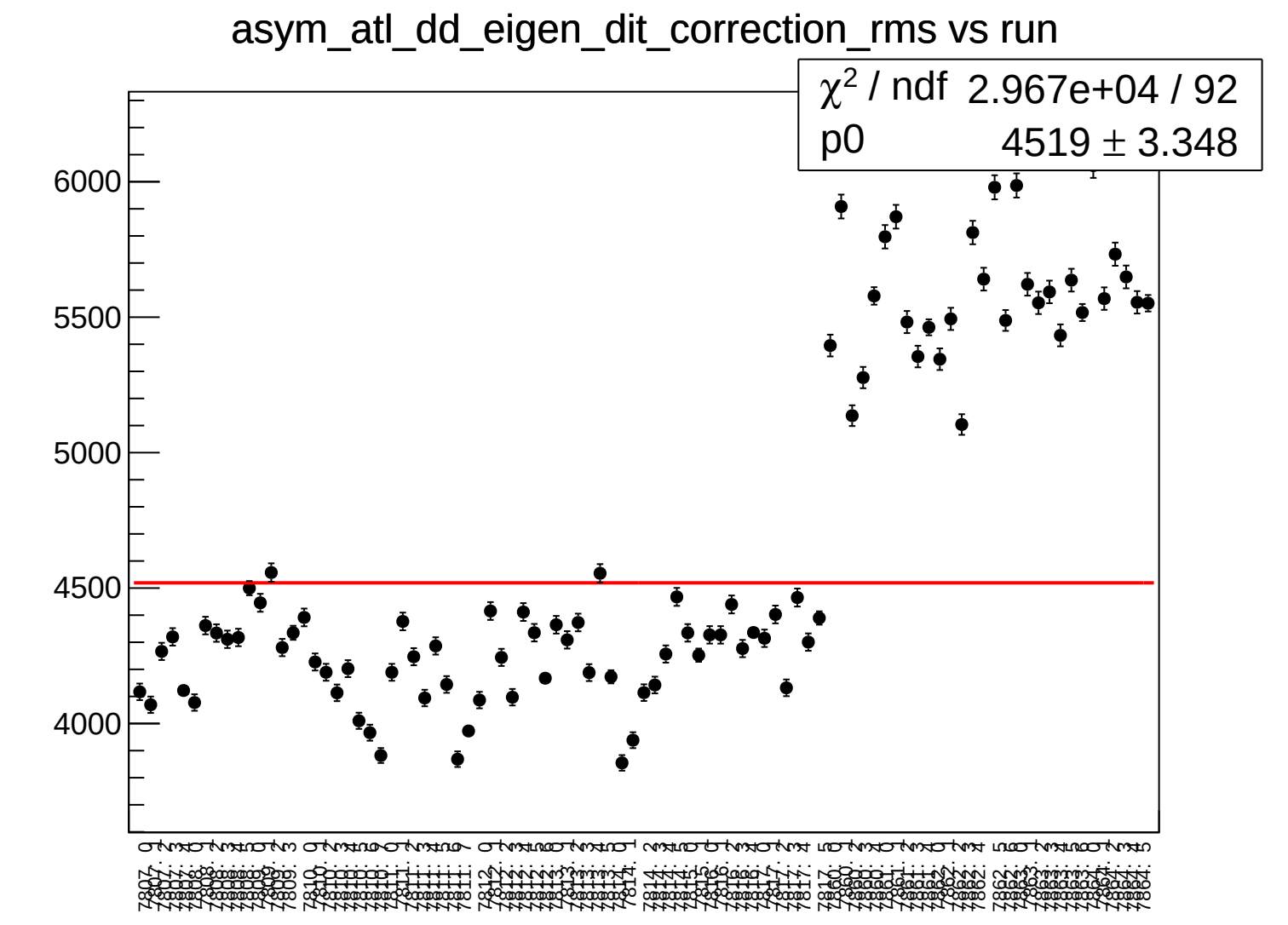
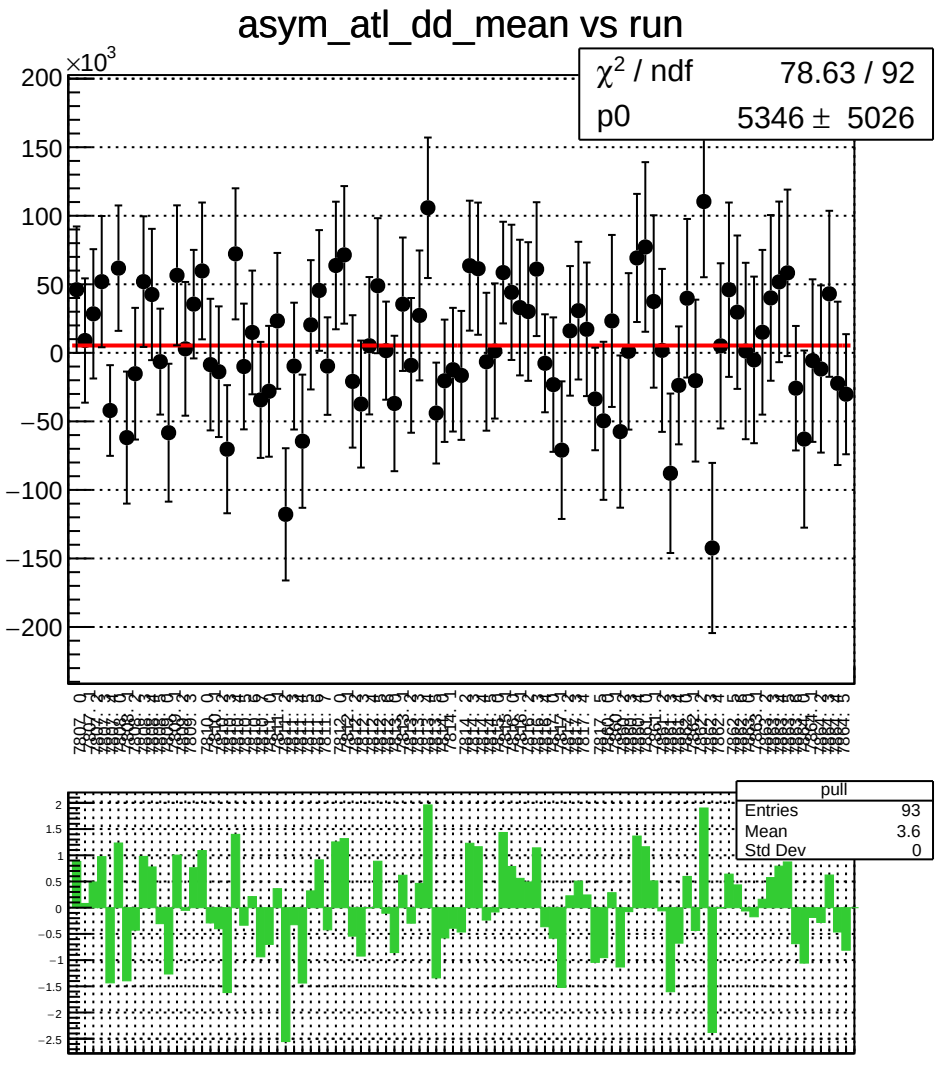
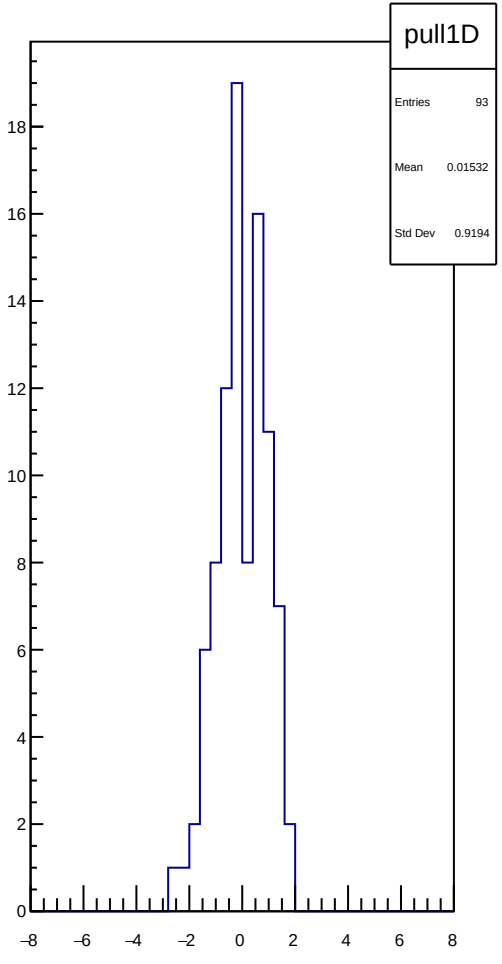
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

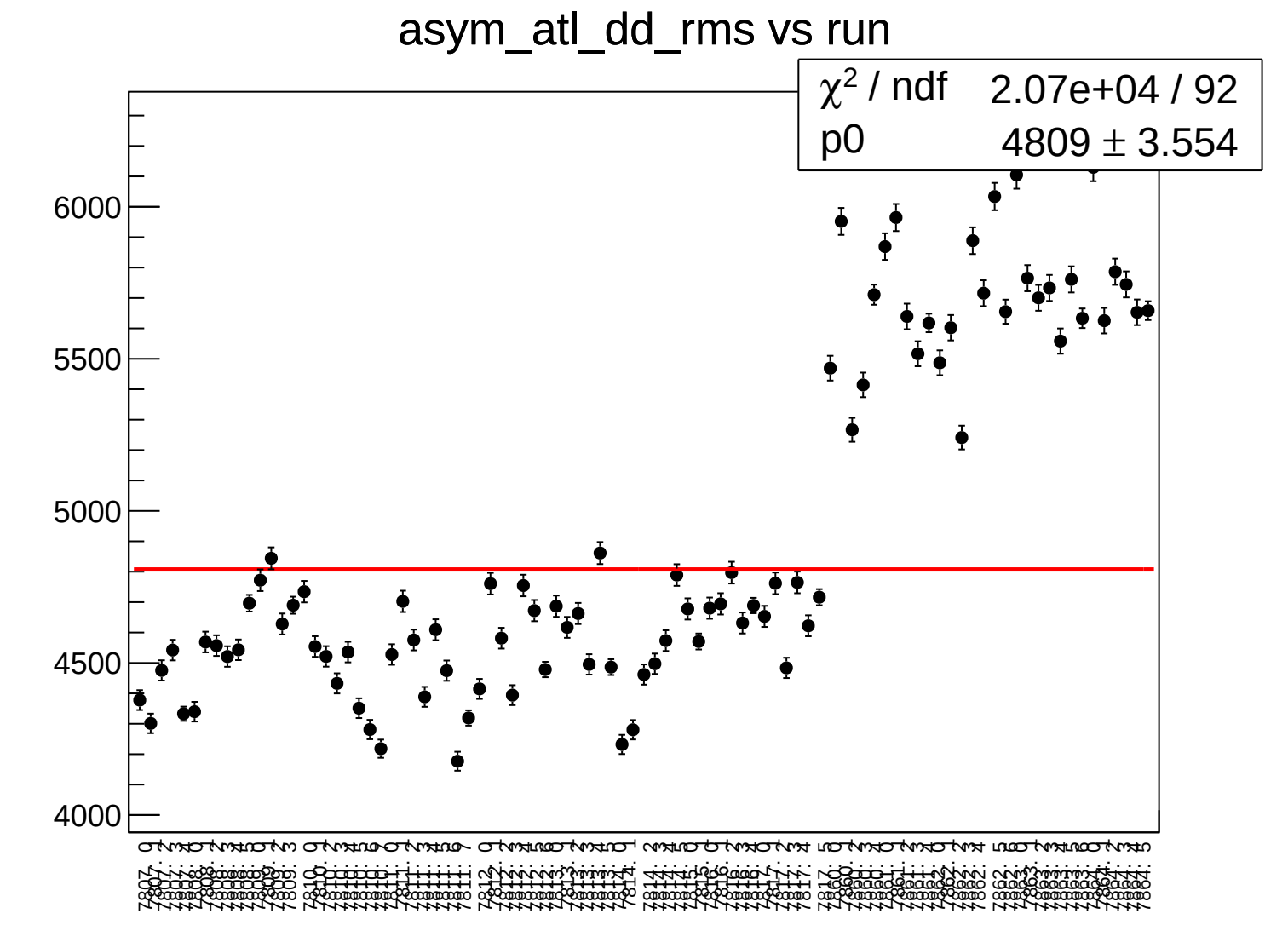

eigen_dit_asym_atl_dd_rms vs run
χ^2 / ndf 115.8 / 92
p0 1641 ± 1.206
1680
1660
1640
1620
1600

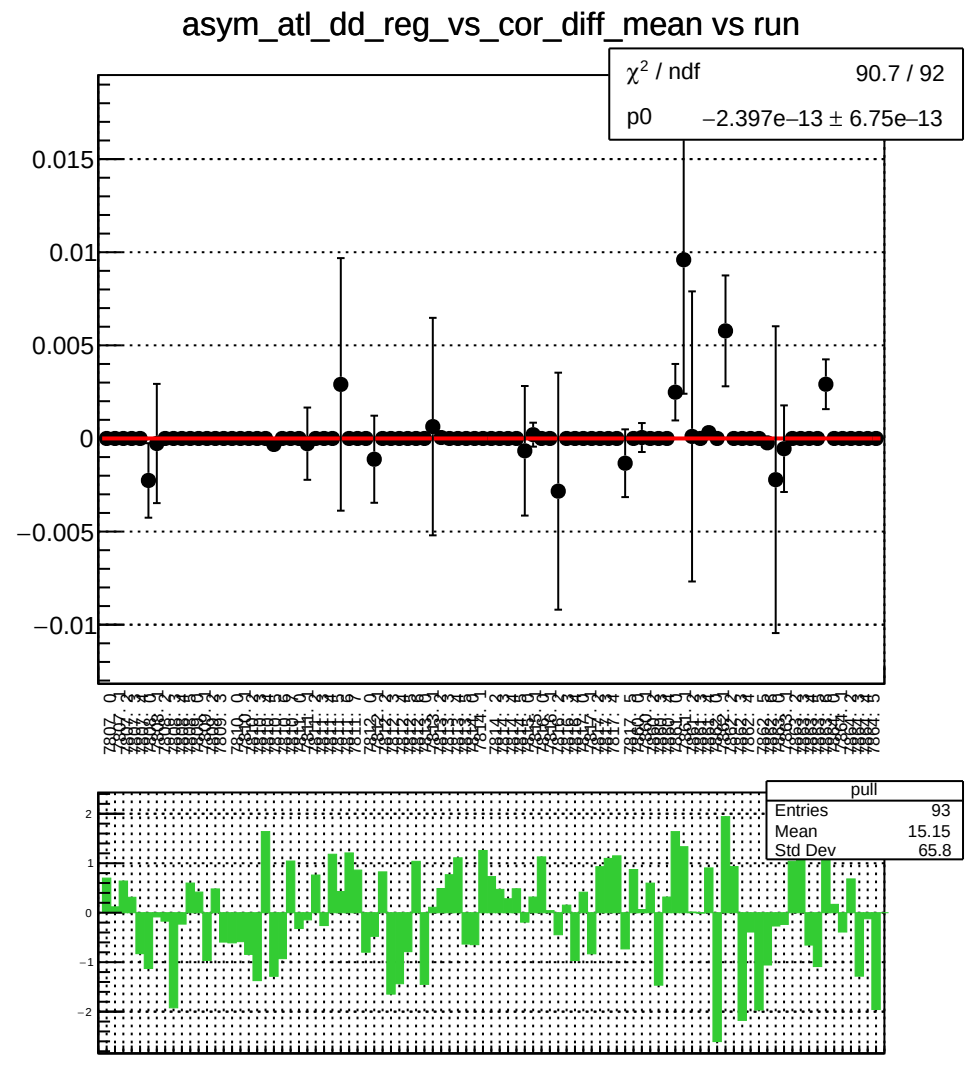

asym_atl_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 84.06 / 92
p0 −5541 ± 4735
200
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean −81.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.00603
Std Dev 0.9507
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

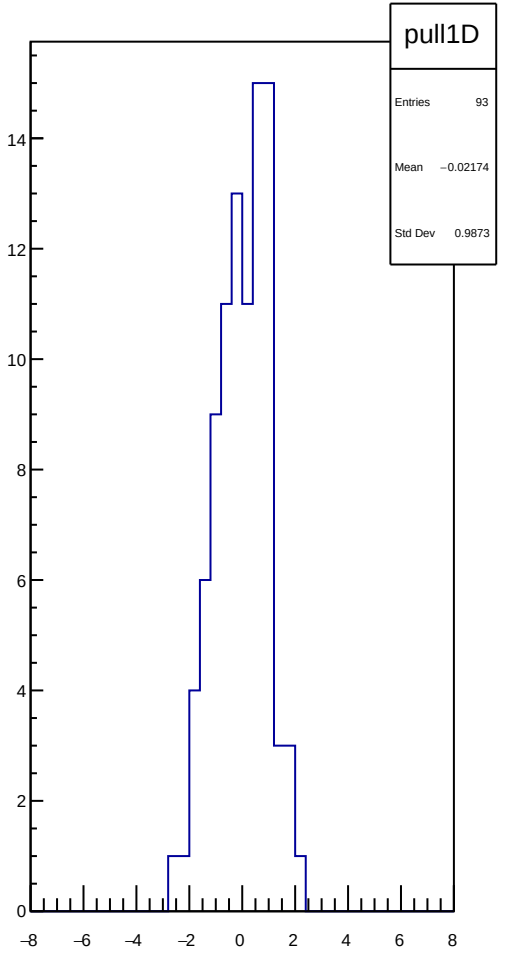

asym_atl_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.967e+04 / 92
p0 4519 ± 3.348
6000
5500
5000
4500
4000

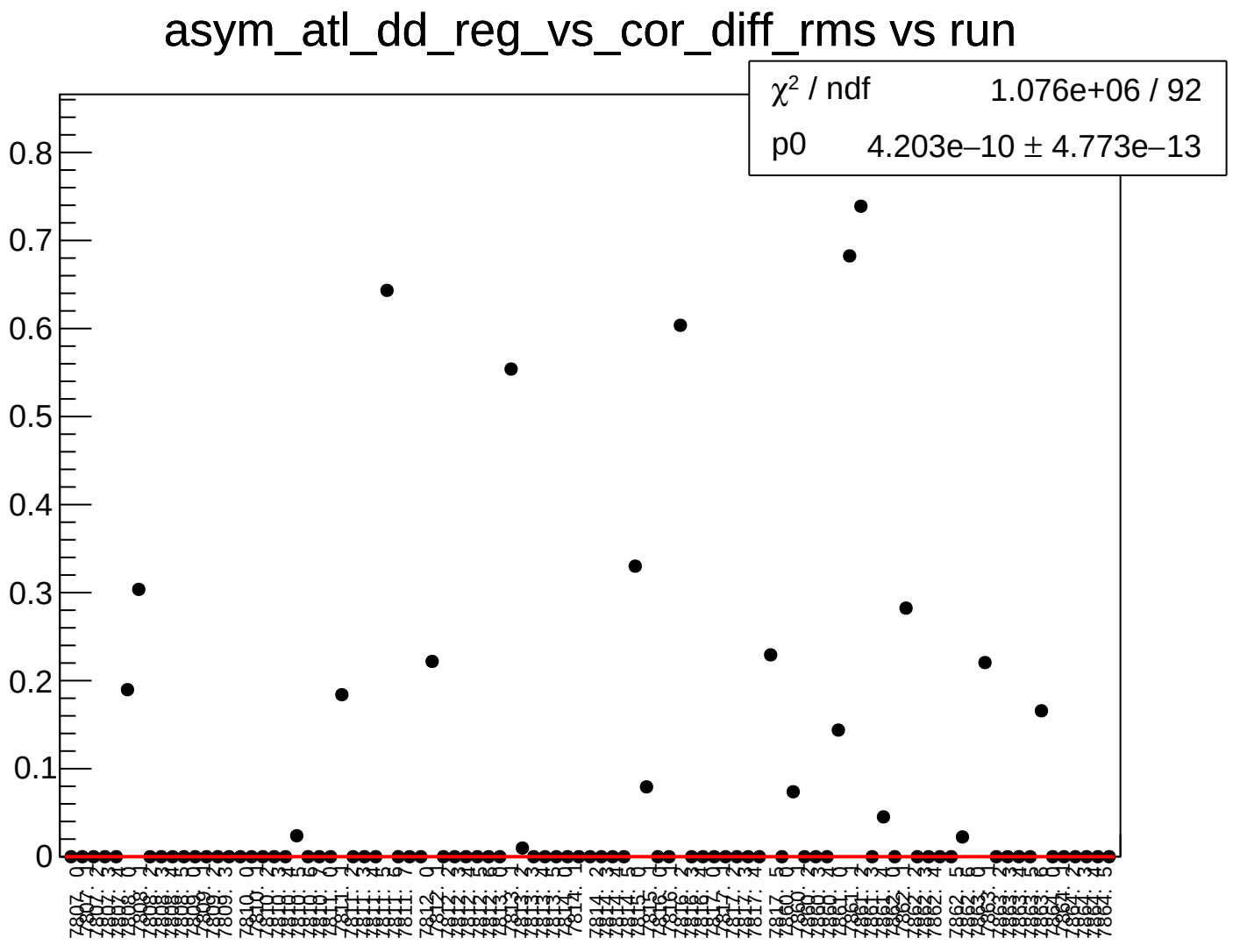

asym_atl_dd_mean vs run
×10^3
χ² / ndf 78.63 / 92
p0 5346 ± 5026
pull
Entries 93
Mean 3.6
Std Dev 0

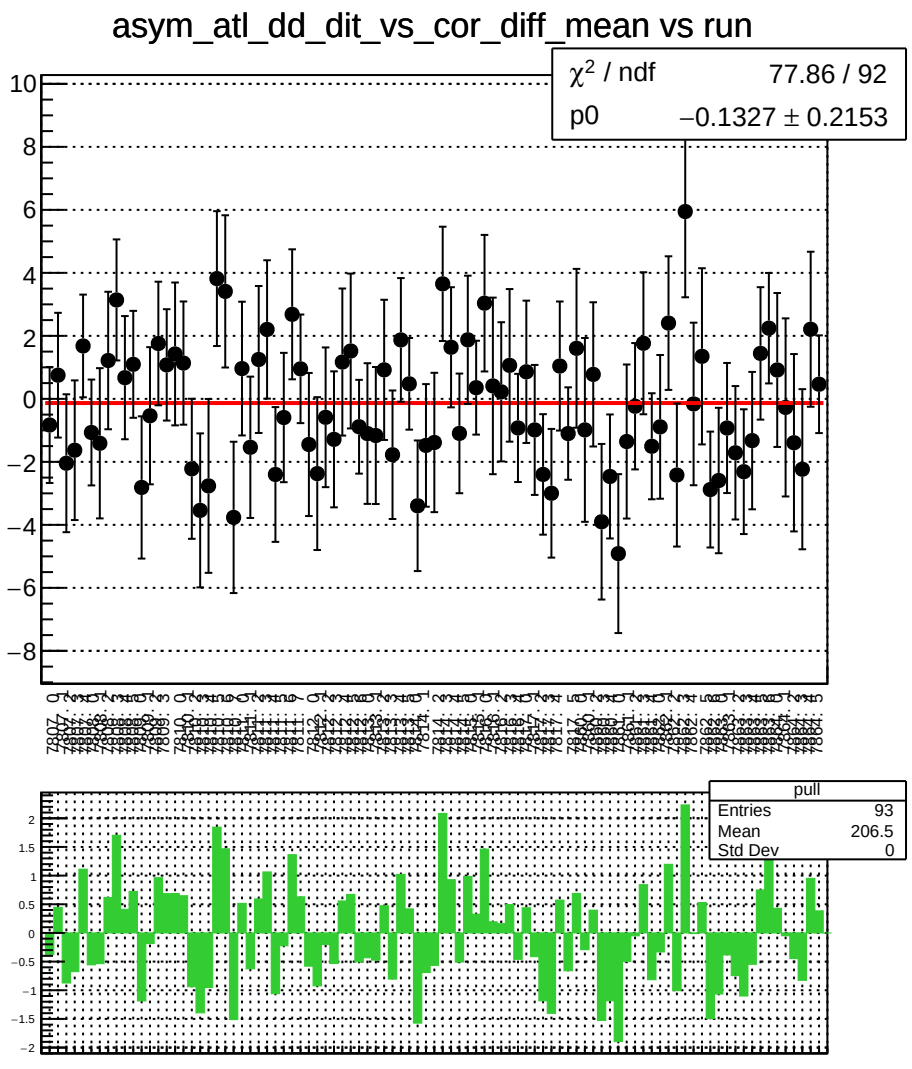

pull1D
Entries 93
Mean 0.01532
Std Dev 0.9194

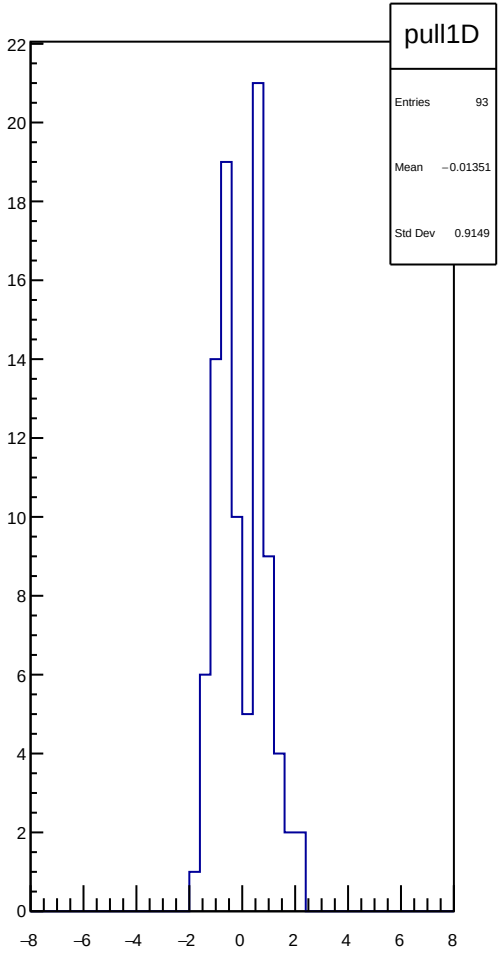

asym_atl_dd_rms vs run
χ² / ndf 2.07e+04 / 92
p0 4809 ± 3.554
6000
5500
5000
4500
4000

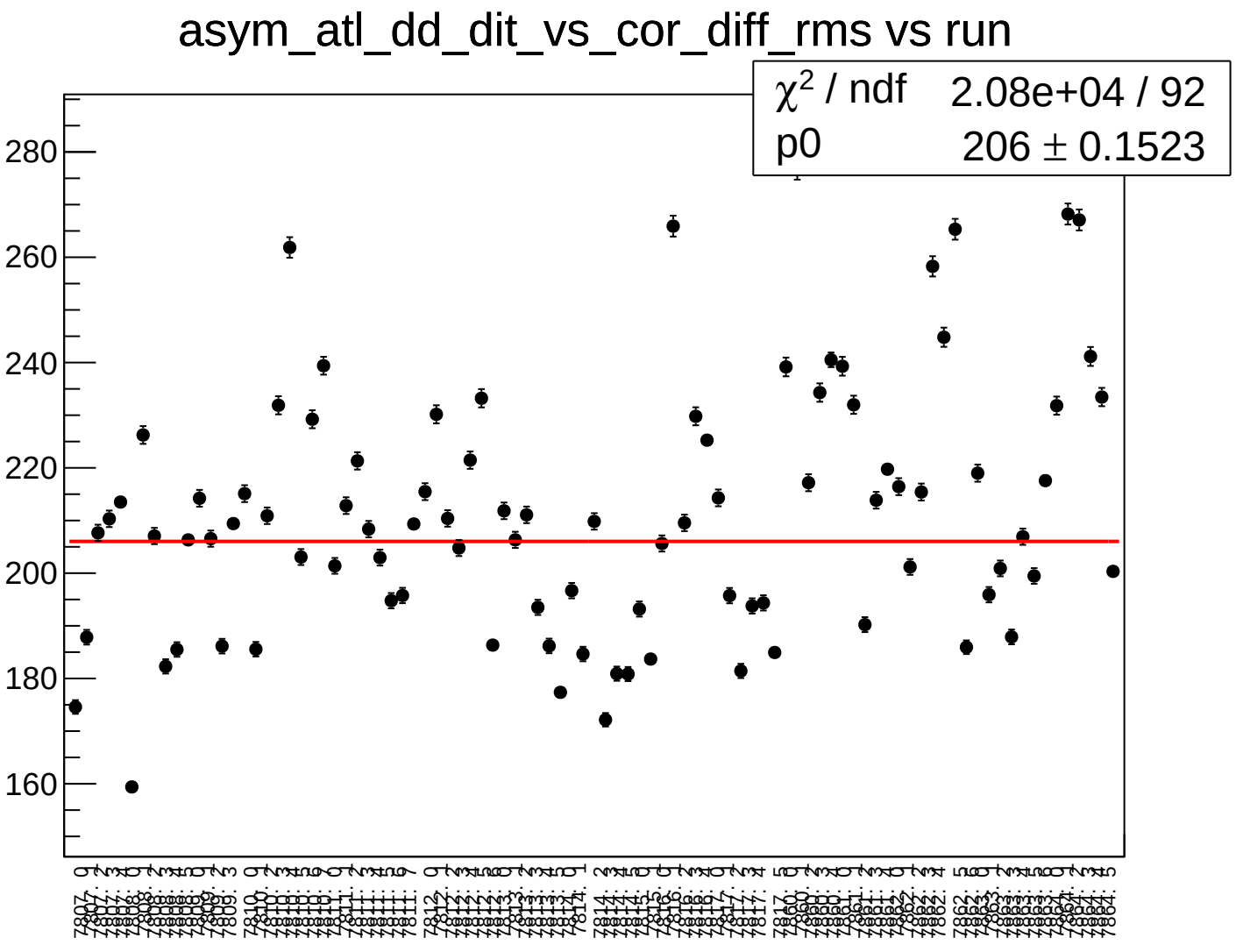

asym_atl_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 90.7 / 92
p0 −2.397e−13 ± 6.75e−13
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 93
Mean 15.15
Std Dev 65.8
2
1
0
−1
−2

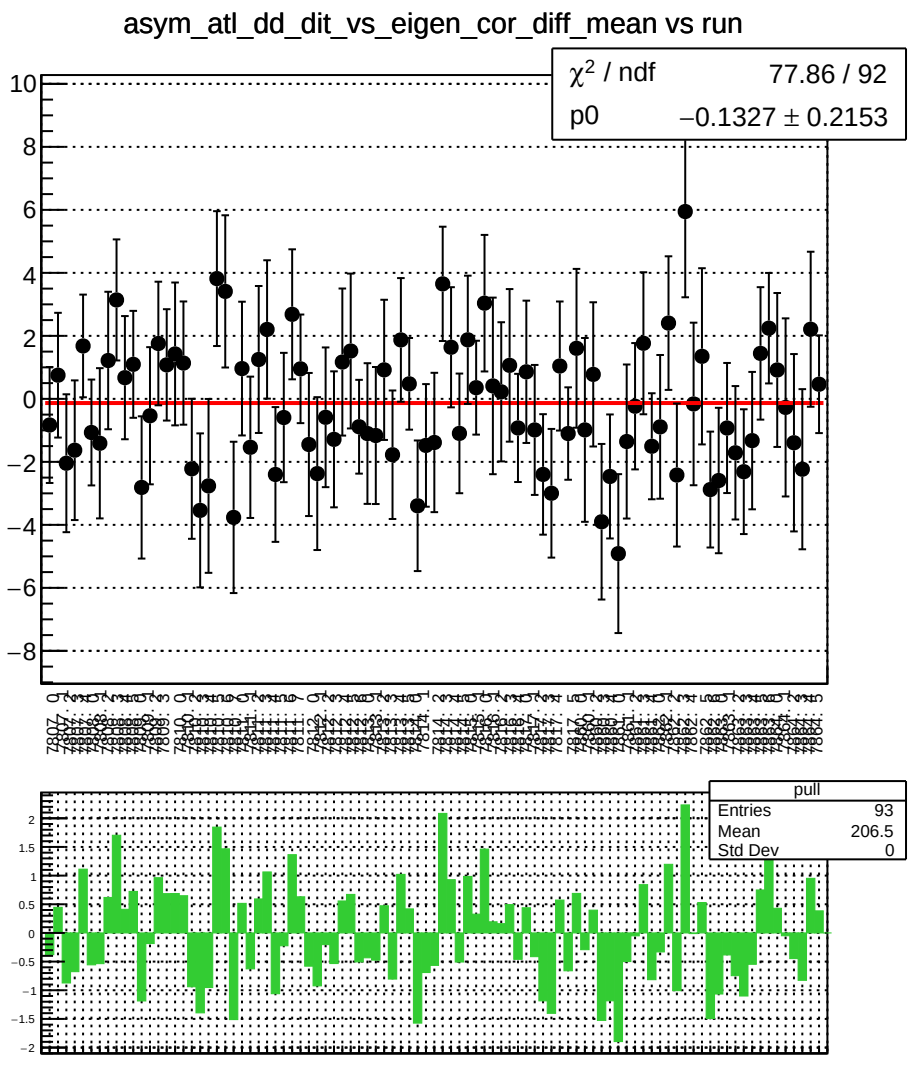

pull1D
Entries 93
Mean −0.02174
Std Dev 0.9873
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

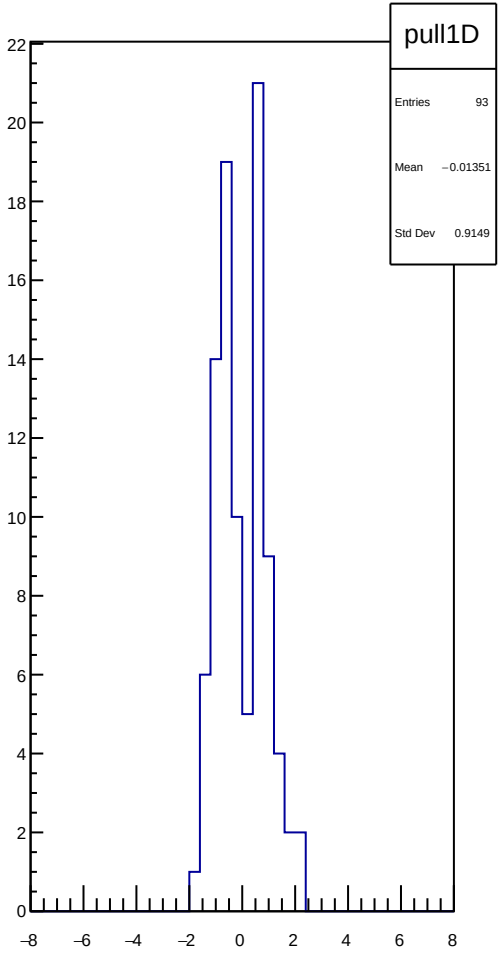

asym_atl_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.076e+06 / 92
p0 4.203e−10 ± 4.773e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

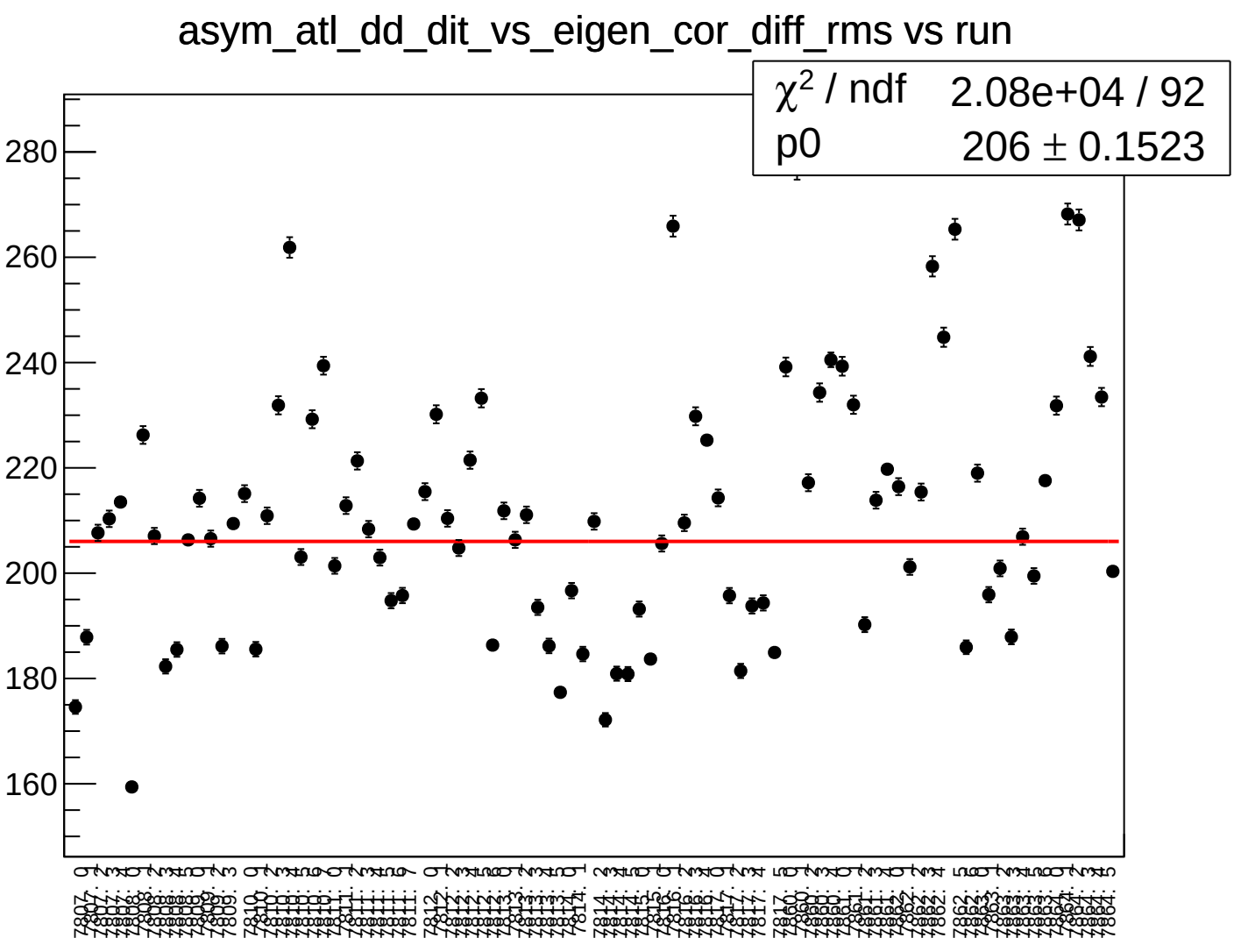

asym_atl_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 77.86 / 92
p0 −0.1327 ± 0.2153
pull
Entries 93
Mean 206.5
Std Dev 0

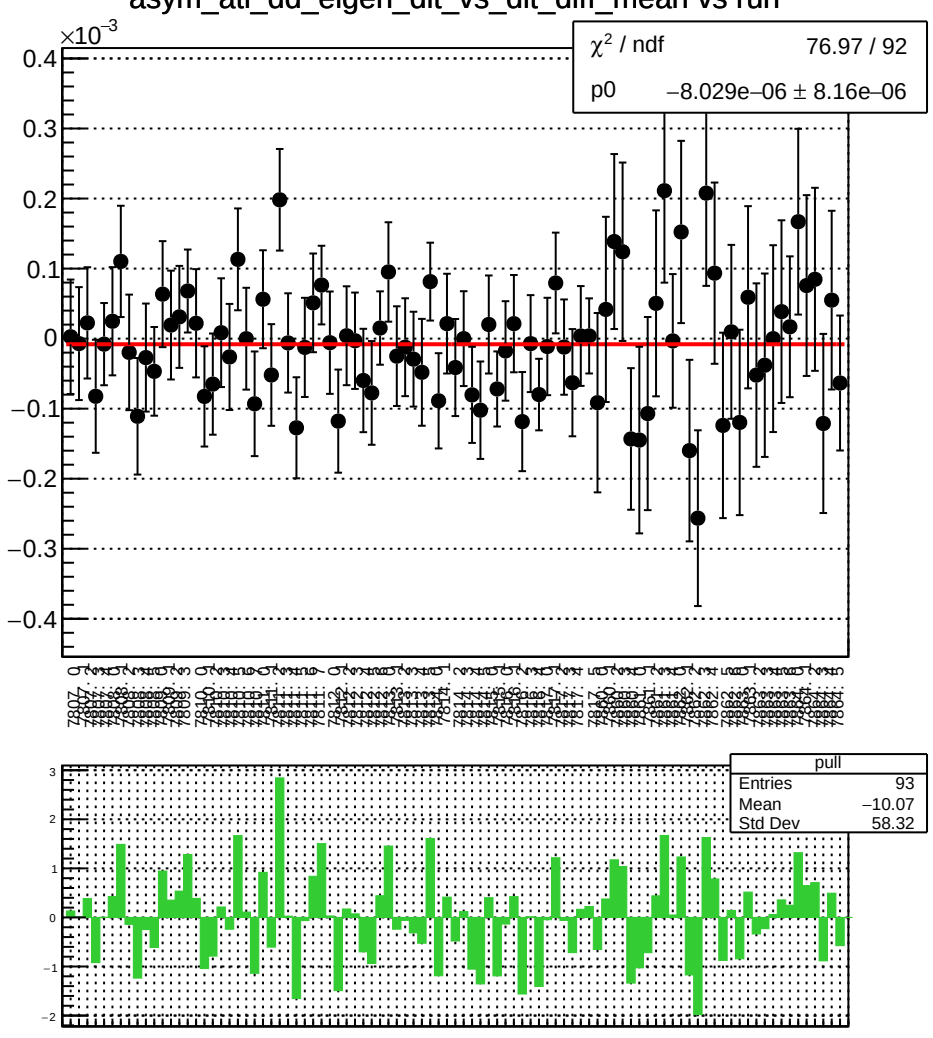

pull1D
Entries 93
Mean −0.01351
Std Dev 0.9149

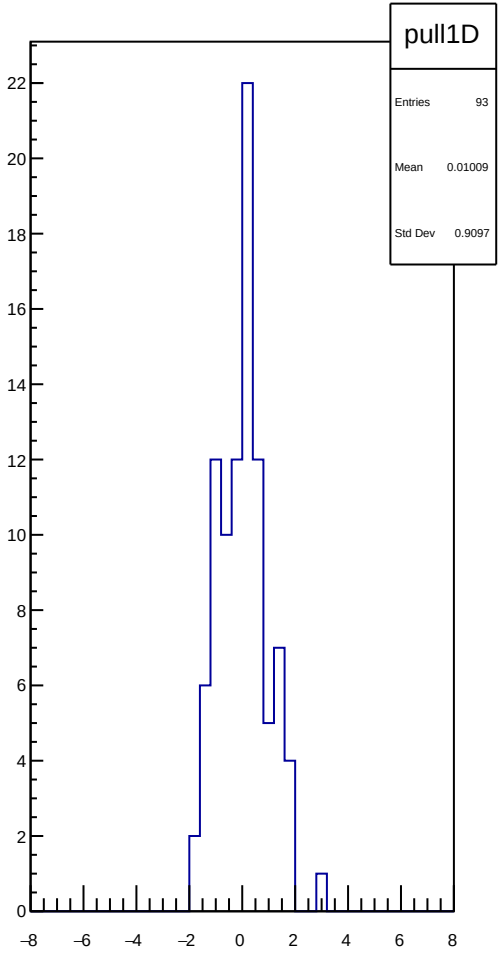

asym_atl_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.08e+04 / 92
p0 206 ± 0.1523
280
260
240
220
200
180
160

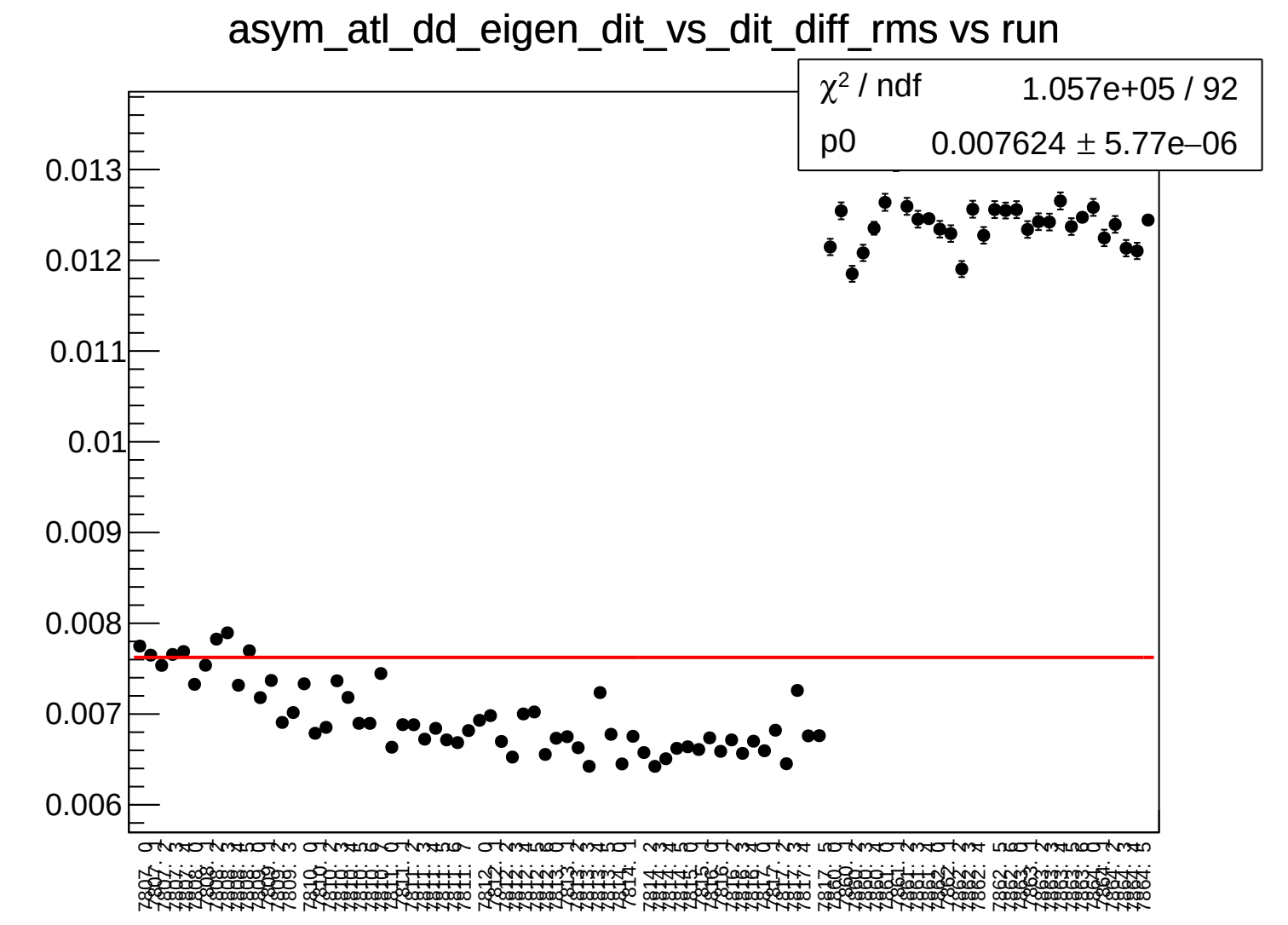

asym_atl_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.86 / 92
p0 −0.1327 ± 0.2153
pull
Entries 93
Mean 206.5
Std Dev 0

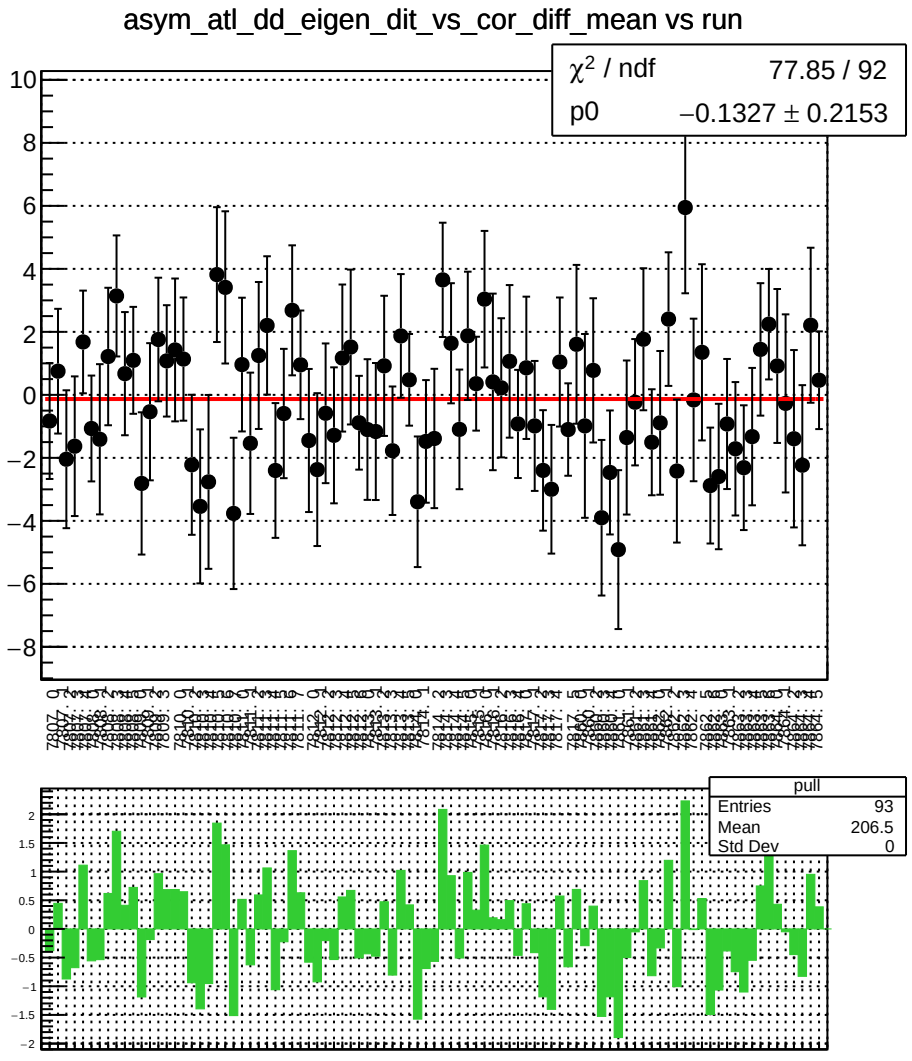

pull1D
Entries 93
Mean −0.01351
Std Dev 0.9149

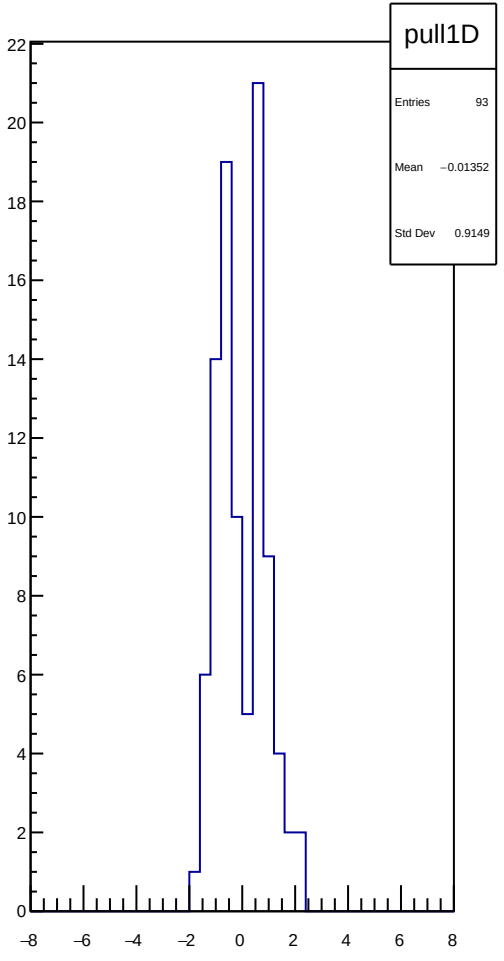

asym_atl_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.08e+04 / 92
p0 206 ± 0.1523
280
260
240
220
200
180
160

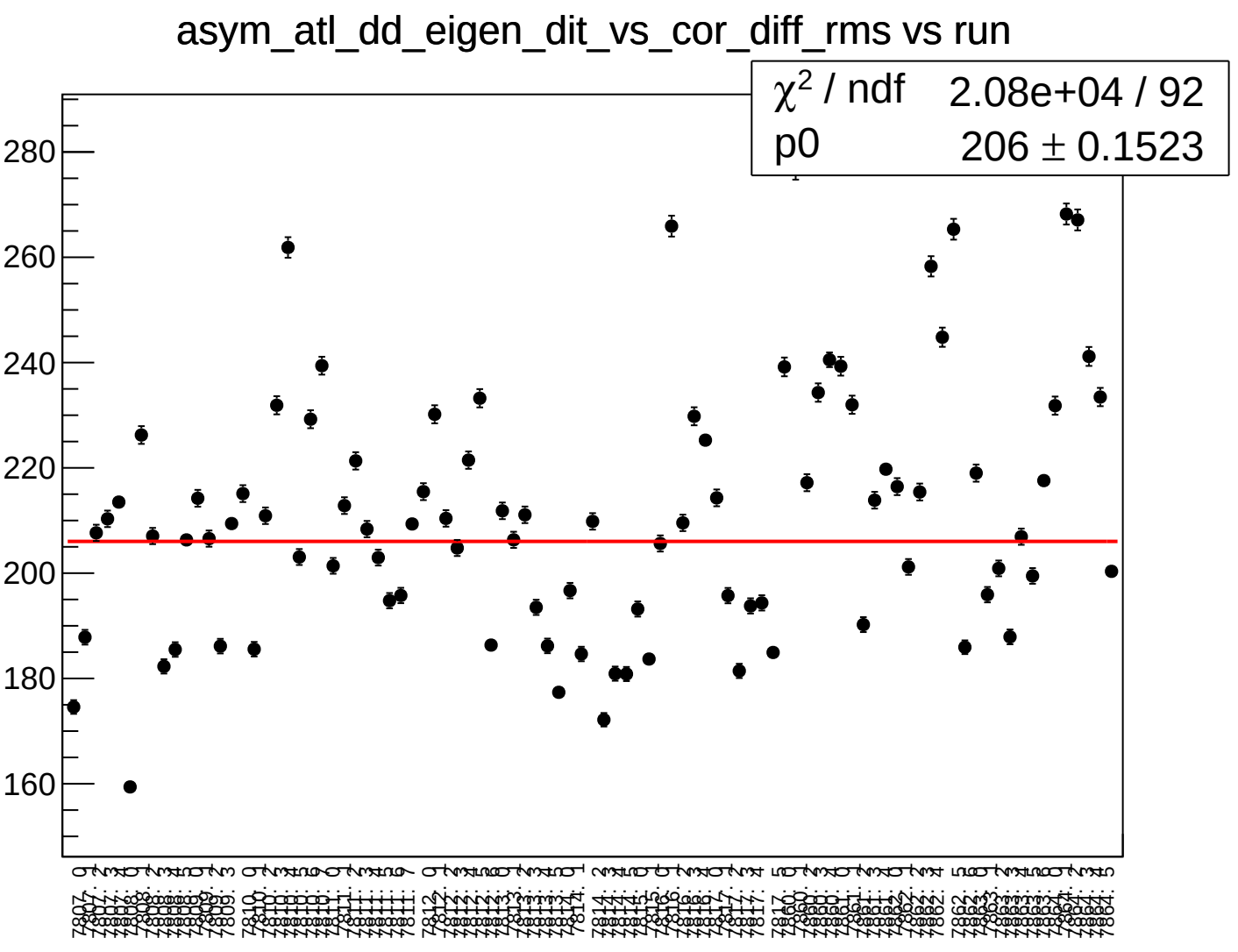

asym_atl_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 76.97 / 92
p0 −8.029e−06 ± 8.16e−06
pull
Entries 93
Mean −10.07
Std Dev 58.32

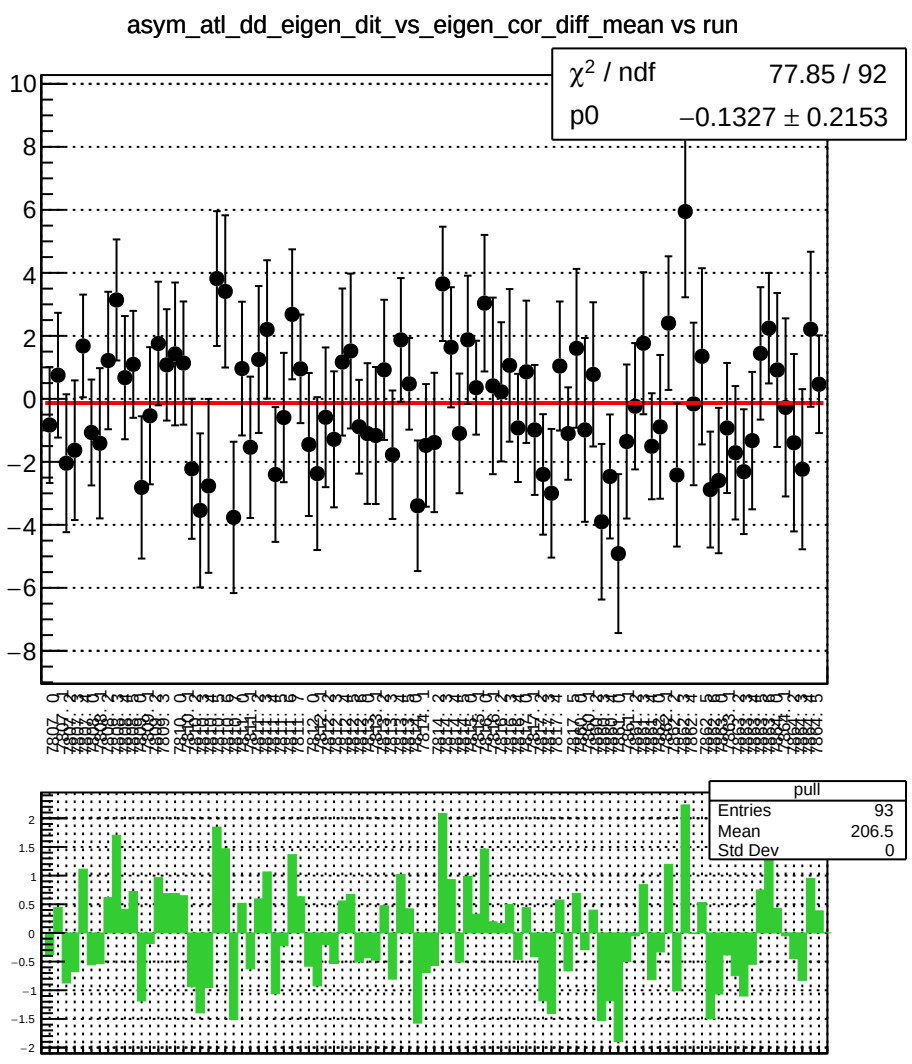

pull1D
Entries 93
Mean 0.01009
Std Dev 0.9097

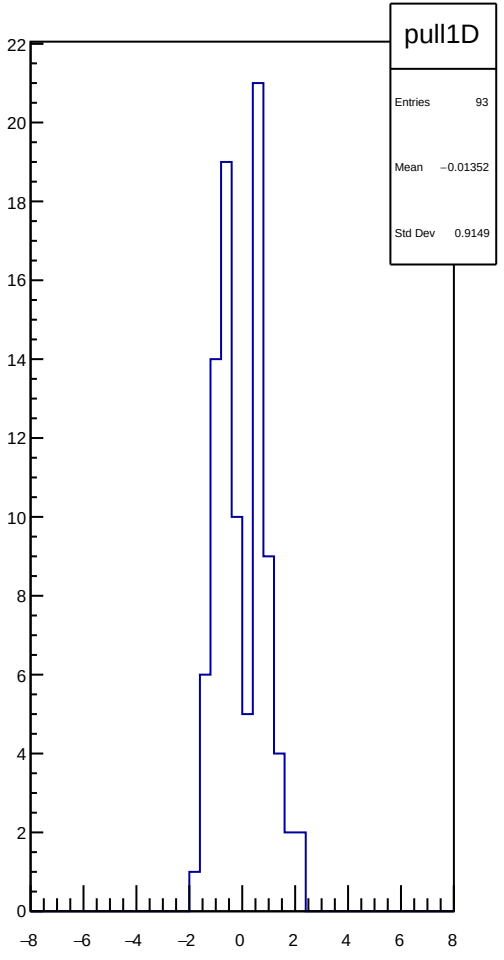

asym_atl_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.057e+05 / 92
p0 0.007624 ± 5.77e−06
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006

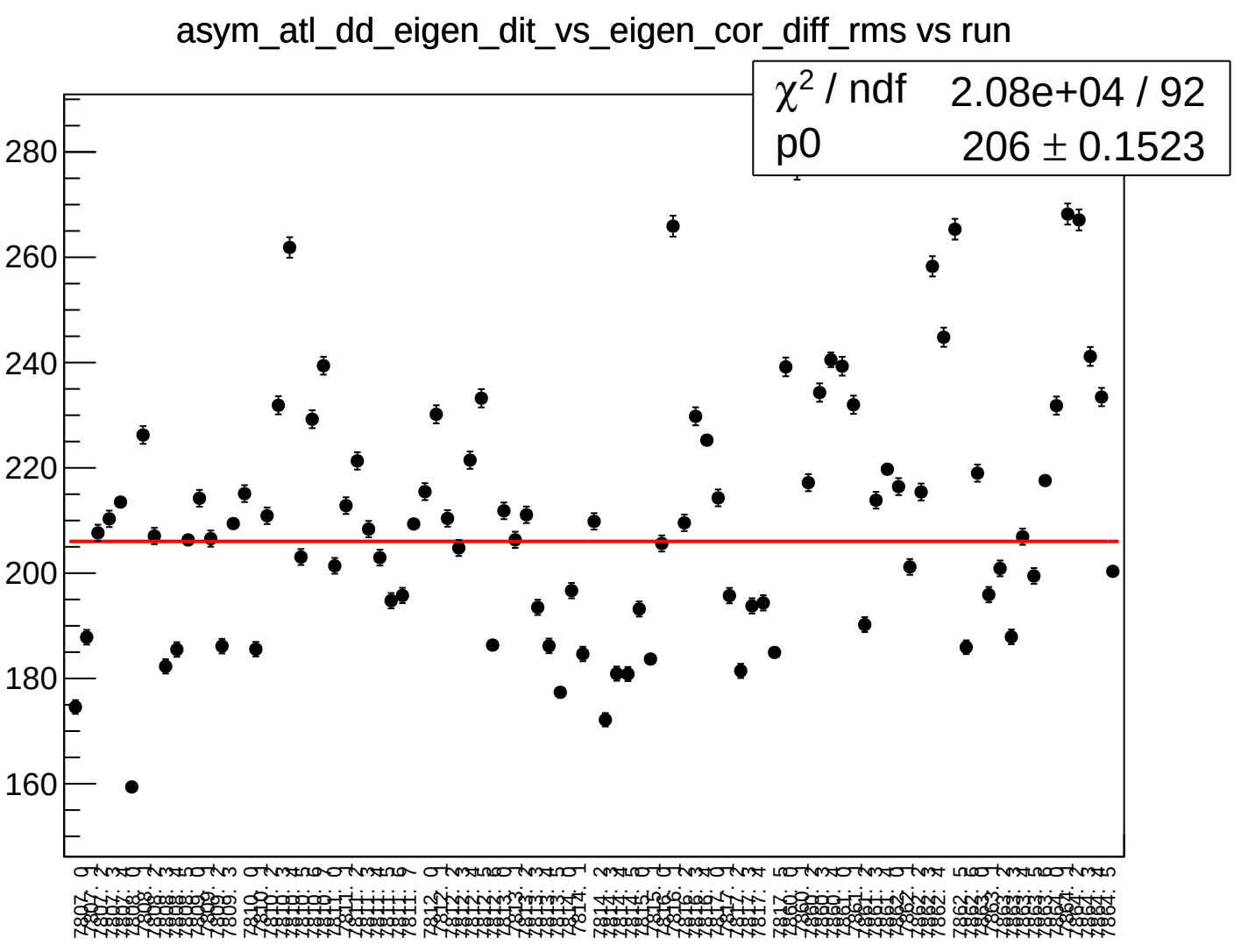

asym_atl_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.85 / 92
p0 −0.1327 ± 0.2153
pull
Entries 93
Mean 206.5
Std Dev 0

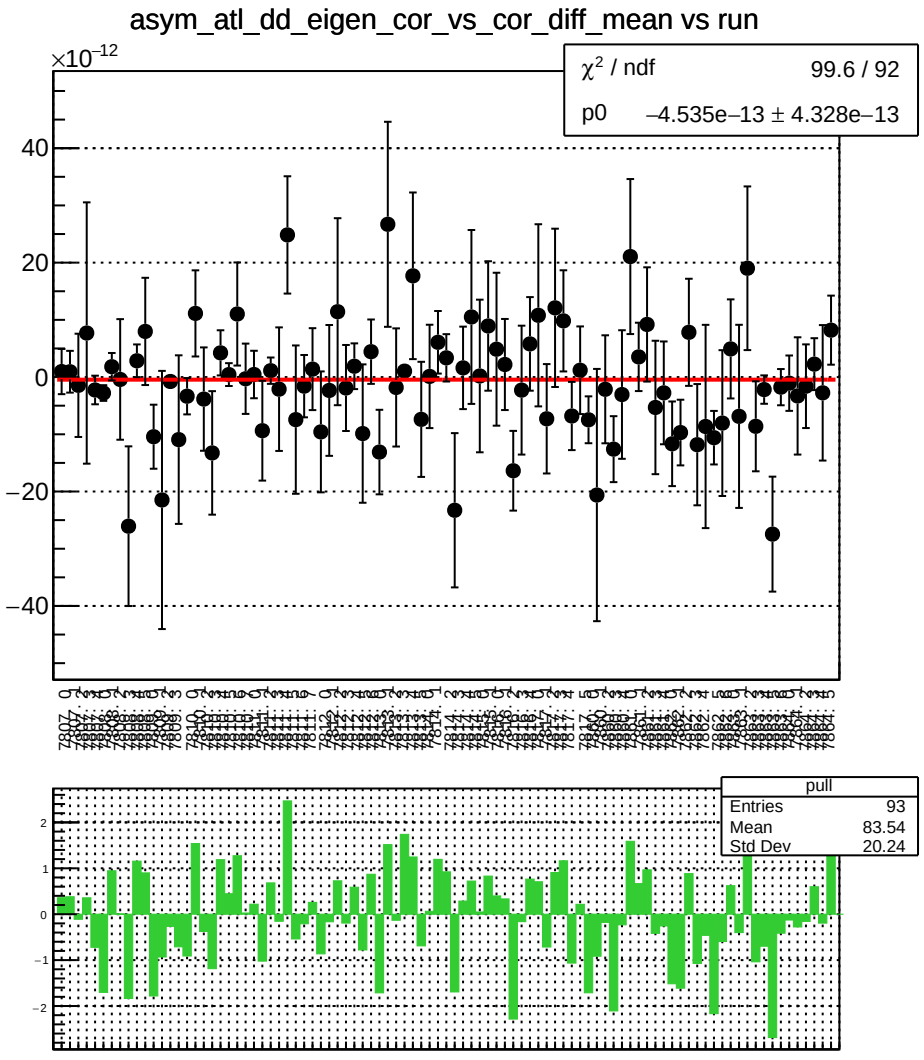

pull1D
Entries 93
Mean −0.01352
Std Dev 0.9149

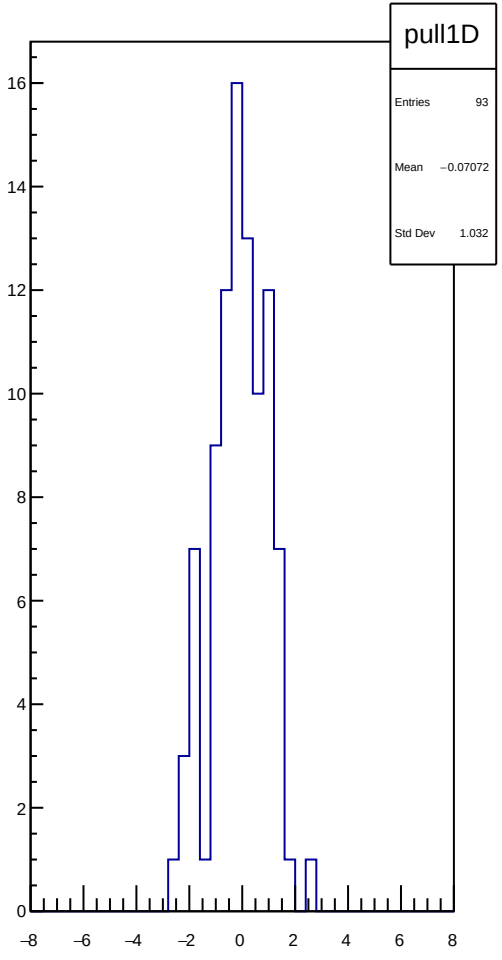

asym_atl_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.08e+04 / 92
p0 206 ± 0.1523
280
260
240
220
200
180
160

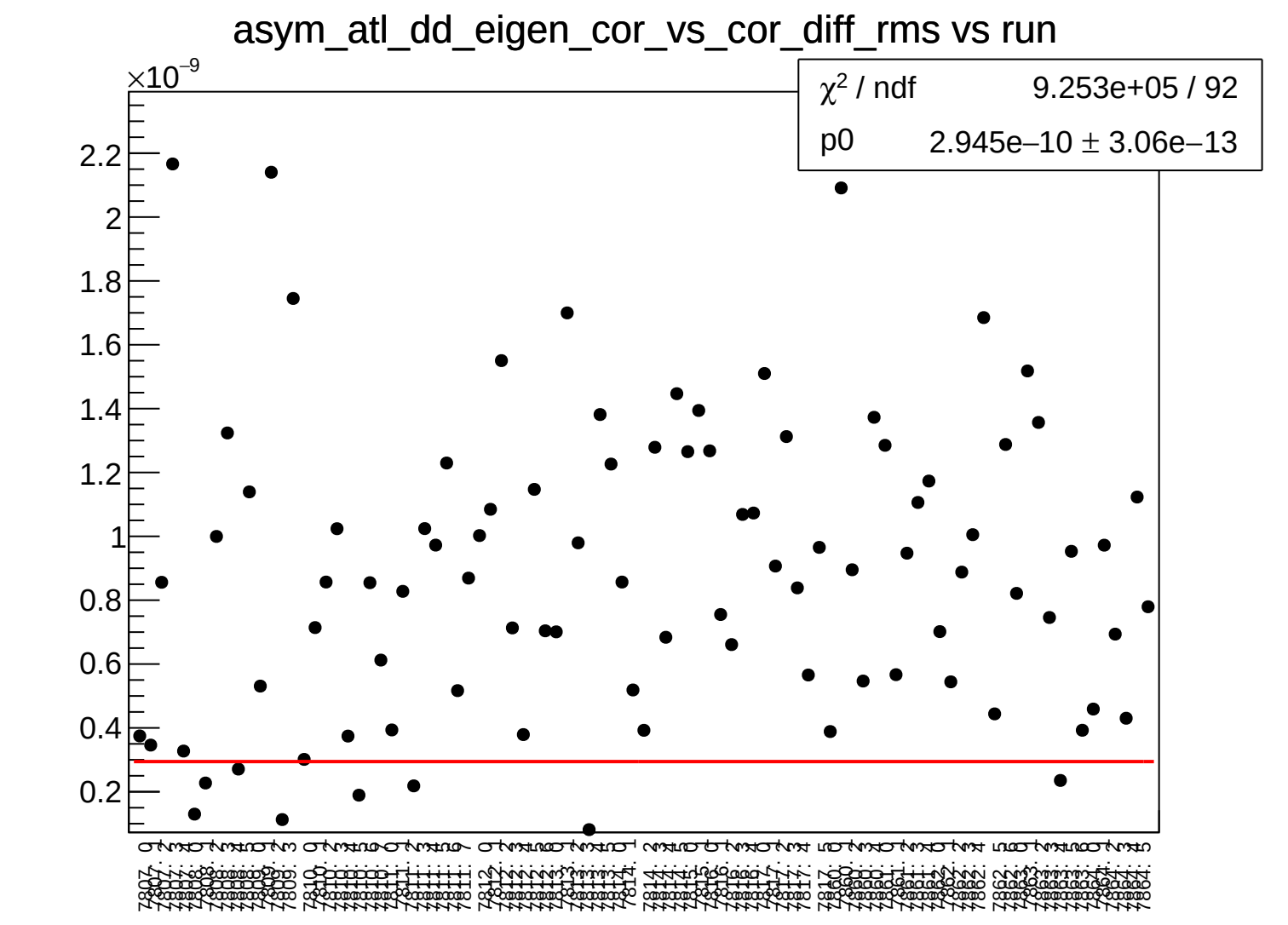

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.85 / 92
p0 −0.1327 ± 0.2153
pull
Entries 93
Mean 206.5
Std Dev 0

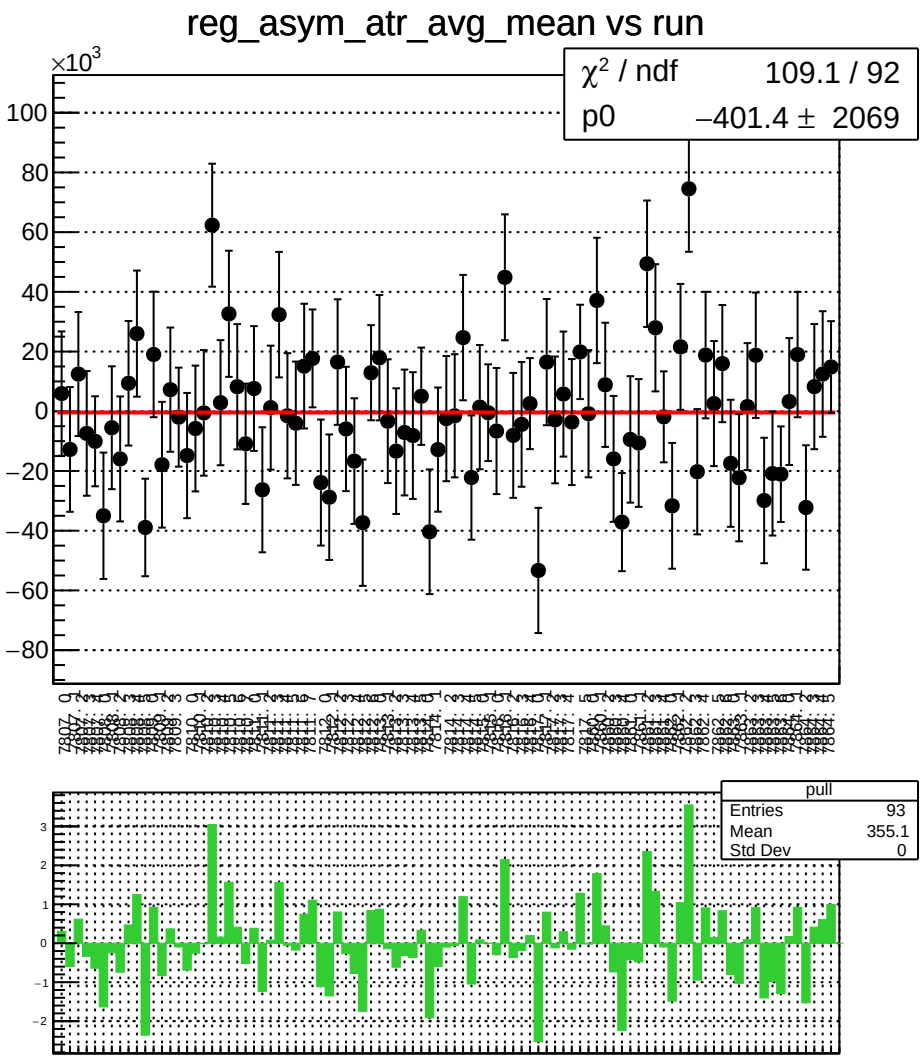

pull1D
Entries 93
Mean −0.01352
Std Dev 0.9149

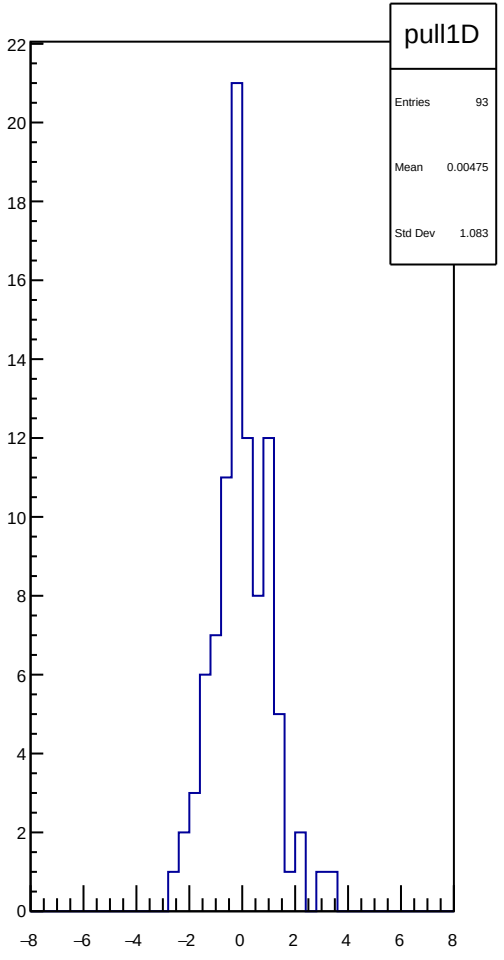

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.08e+04 / 92
p0 206 ± 0.1523
280
260
240
220
200
180
160

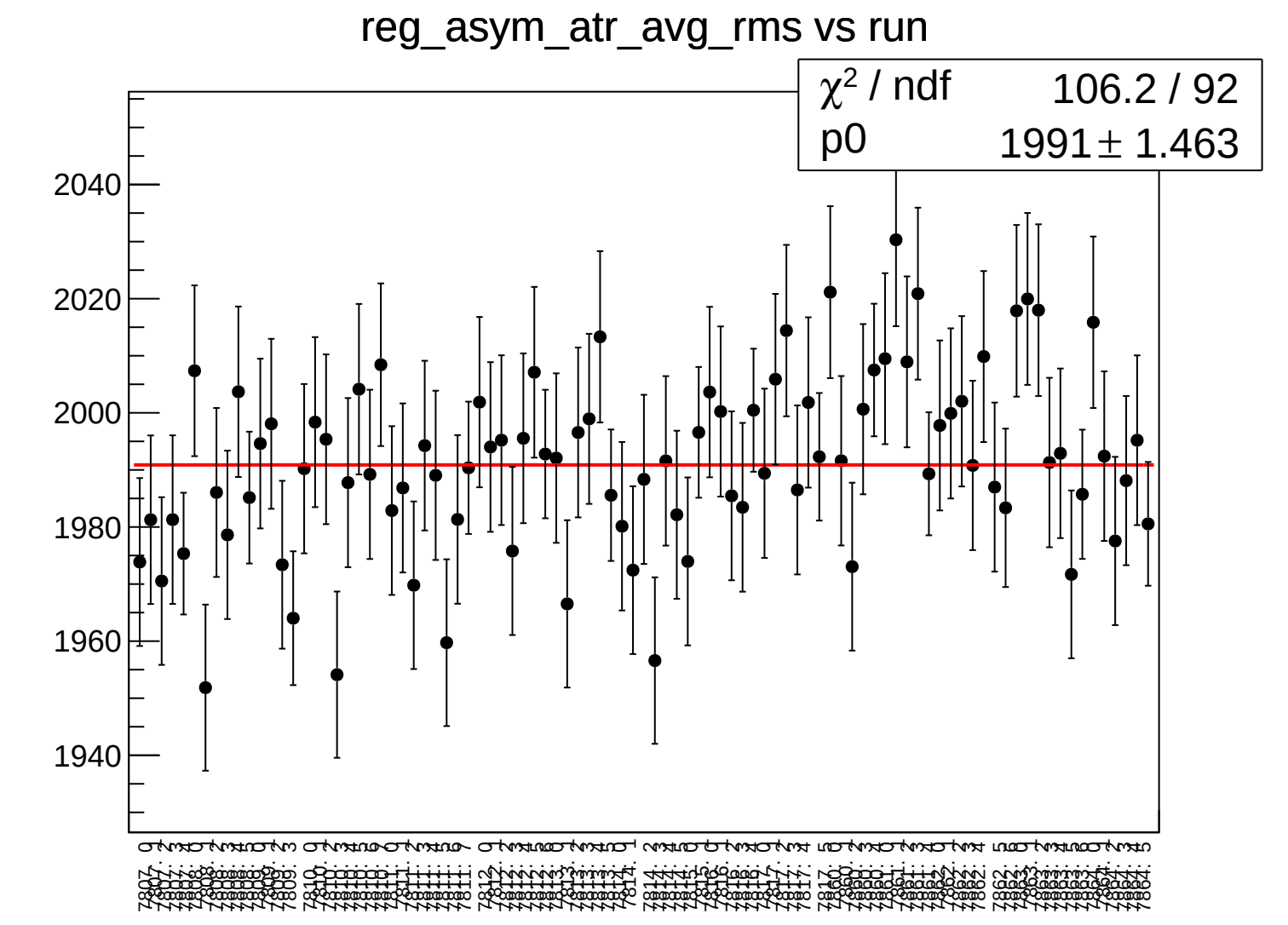

asym_atl_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.6 / 92
p0 −4.535e−13 ± 4.328e−13
40
20
0
−20
−40
pull
Entries 93
Mean 83.54
Std Dev 20.24
2
1
0
−1
−2

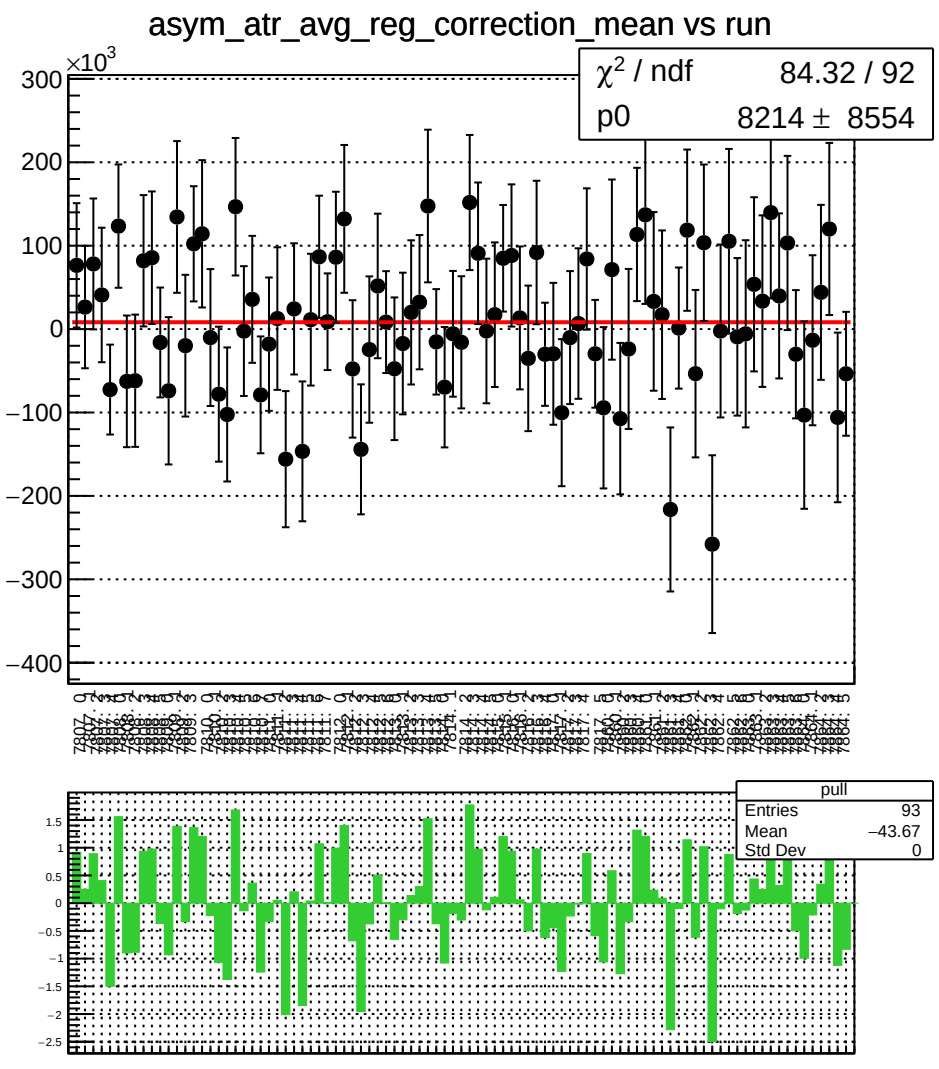

pull1D
Entries 93
Mean −0.07072
Std Dev 1.032
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

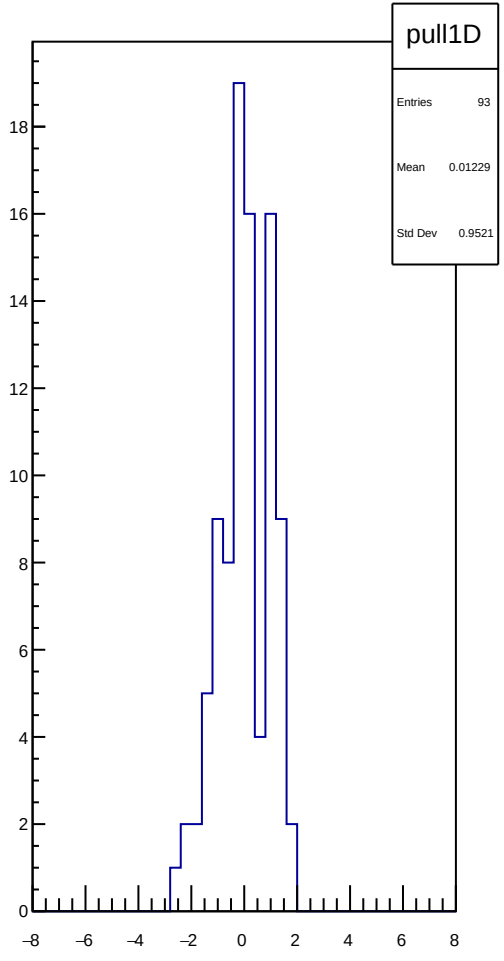

asym_atl_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.253e+05 / 92
p0 2.945e−10 ± 3.06e−13
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

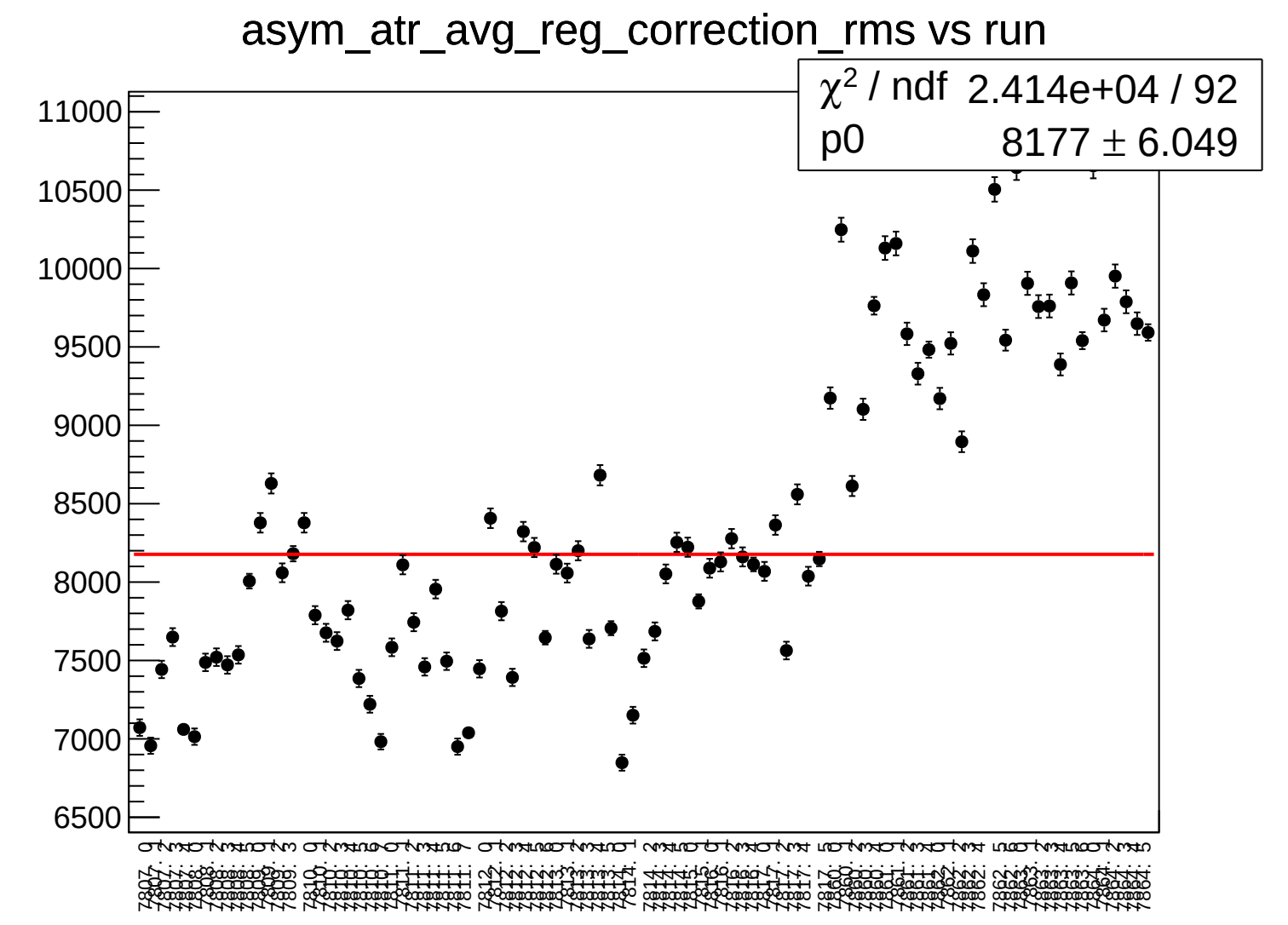

reg_asym_atr_avg_mean vs run
×10^3
χ² / ndf 109.1 / 92
p0 −401.4 ± 2069
pull
Entries 93
Mean 355.1
Std Dev 0

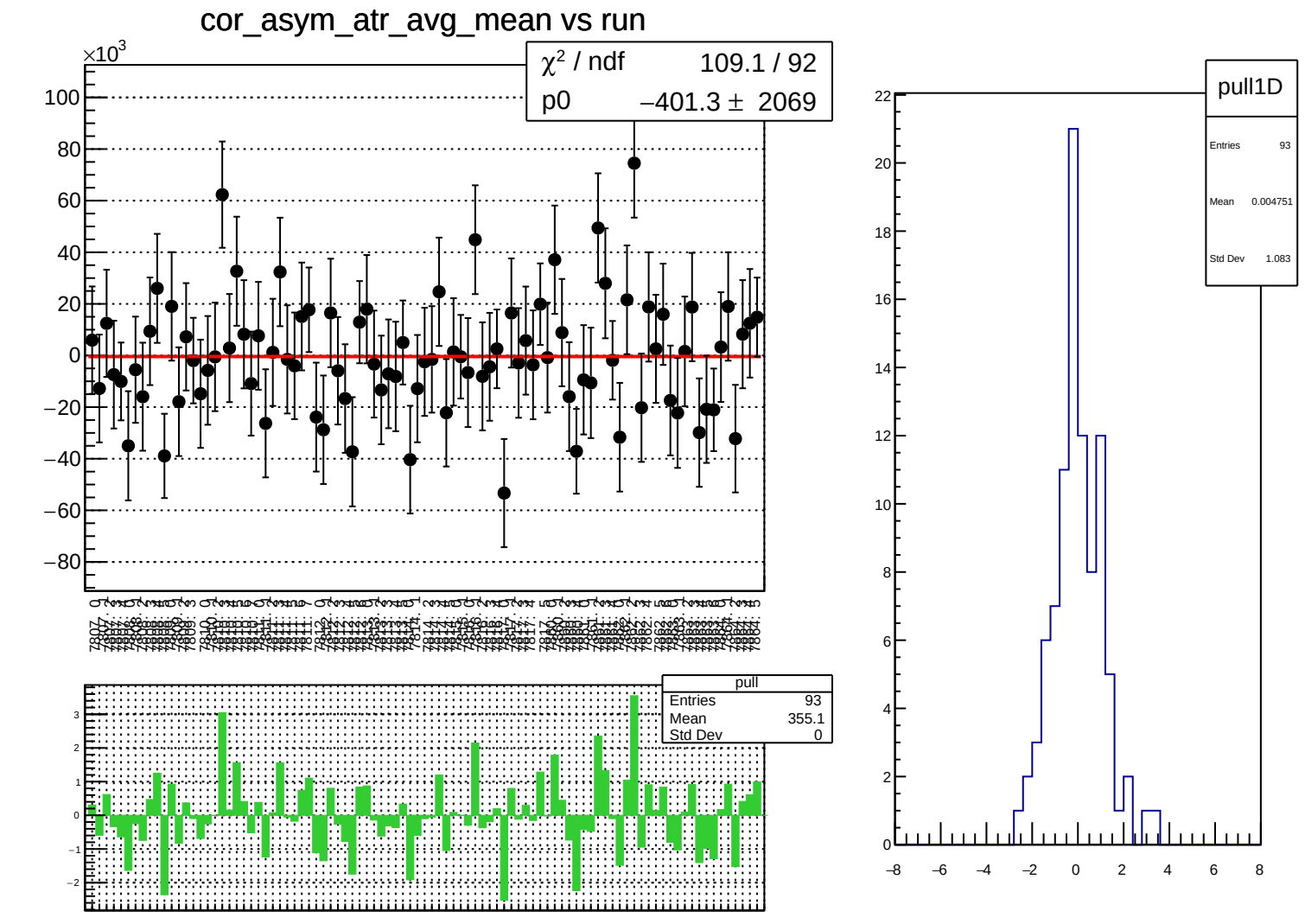

pull1D
Entries 93
Mean 0.00475
Std Dev 1.083

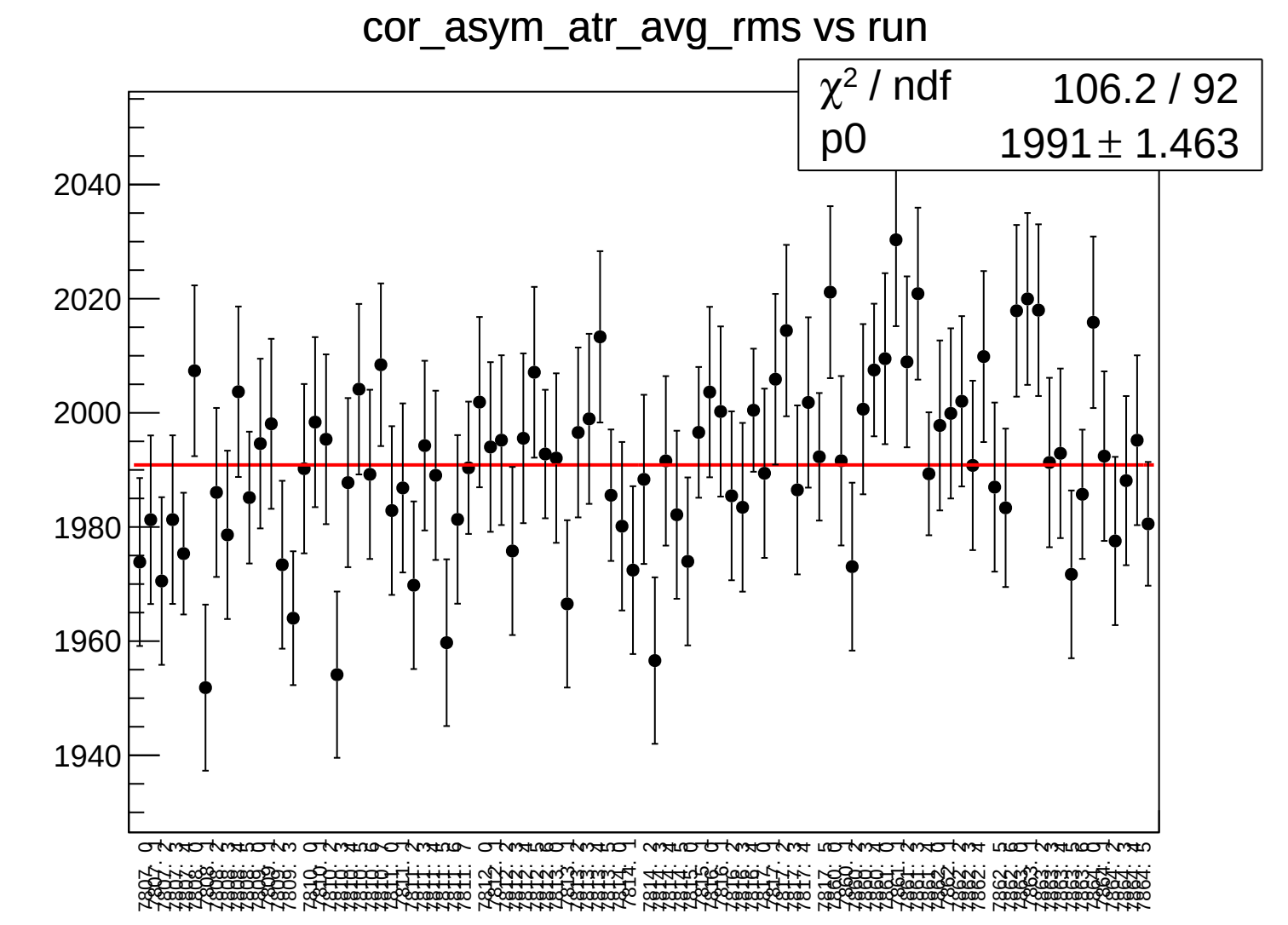

reg_asym_atr_avg_rms vs run
χ² / ndf 106.2 / 92
p0 1991 ± 1.463
2040
2020
2000
1980
1960
1940

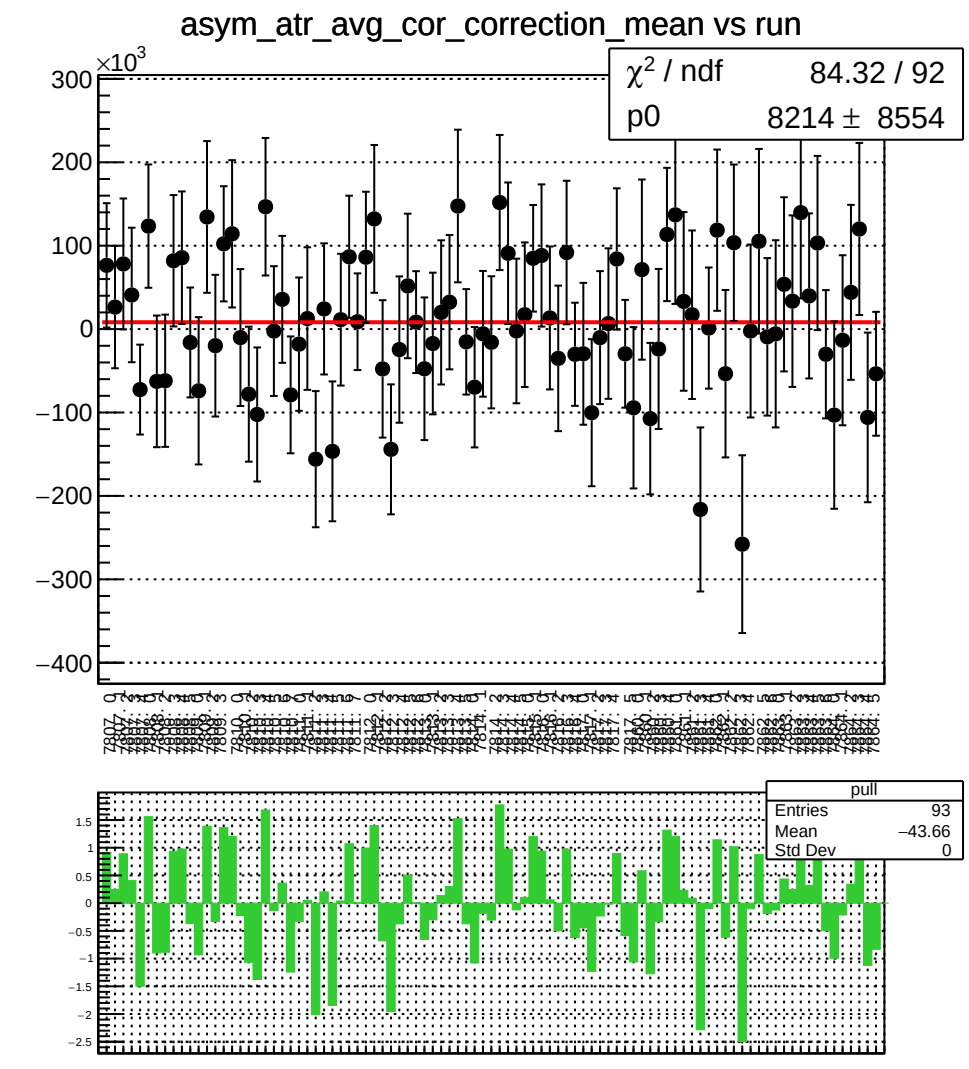

asym_atr_avg_reg_correction_mean vs run
×10^3
χ² / ndf 84.32 / 92
p0 8214 ± 8554
pull
Entries 93
Mean −43.67
Std Dev 0

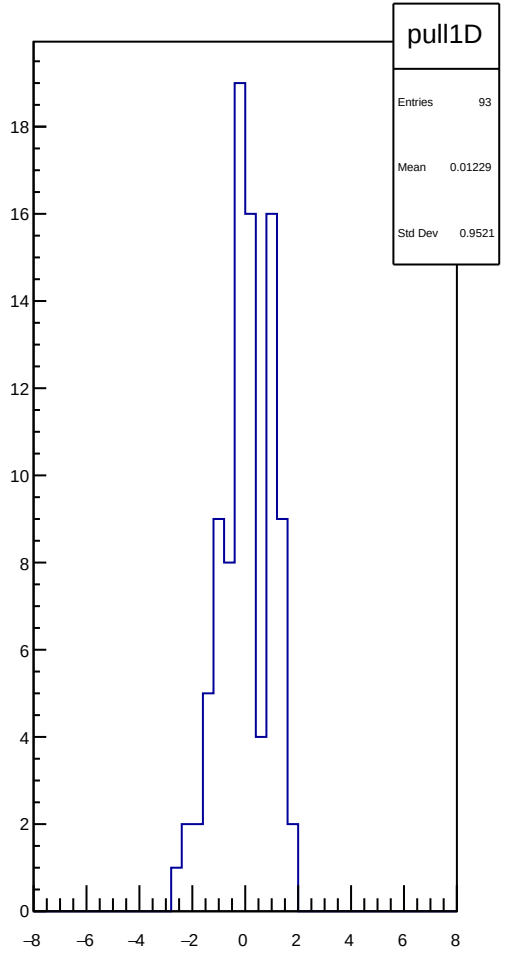

pull1D
Entries 93
Mean 0.01229
Std Dev 0.9521

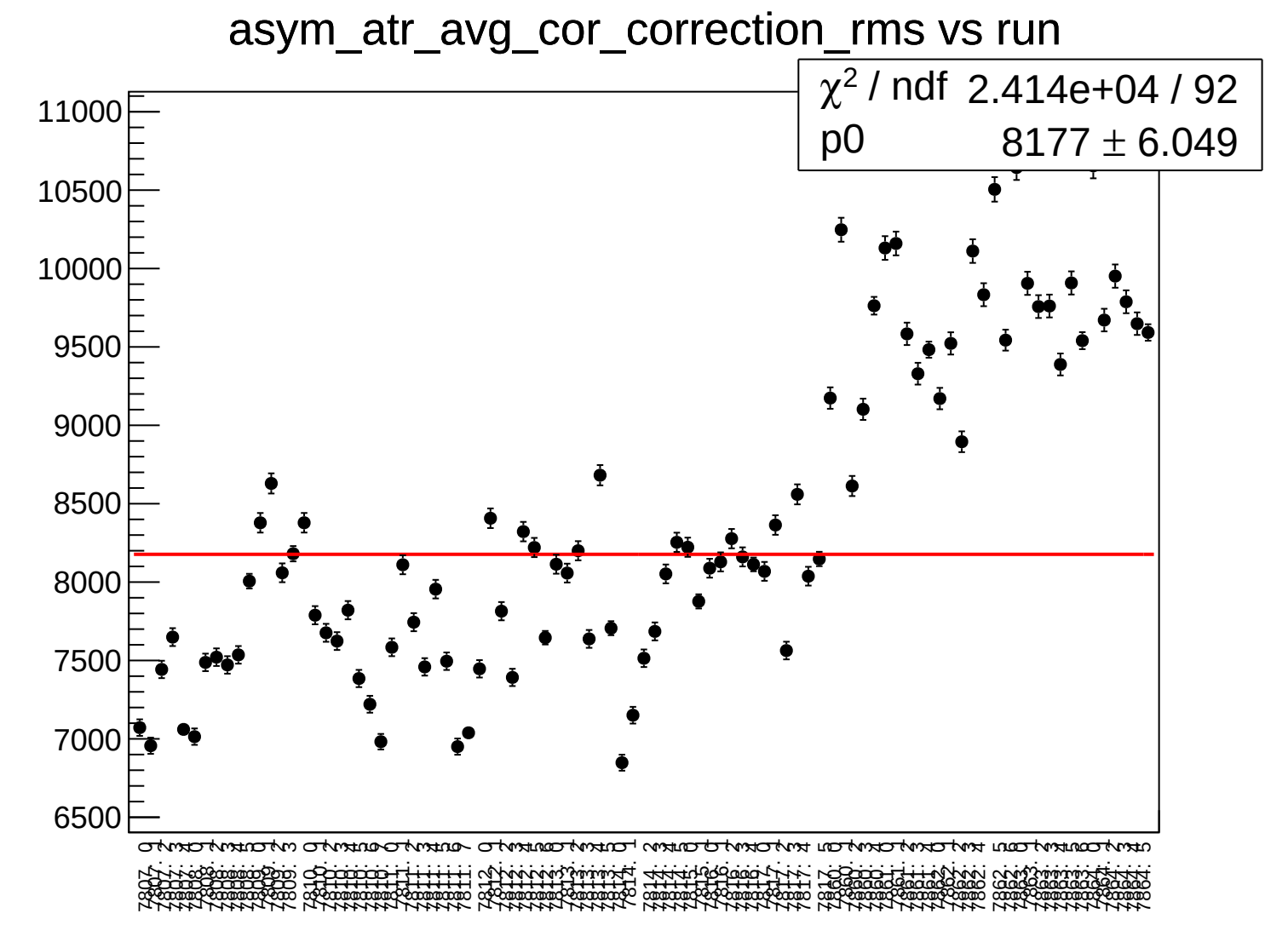

asym_atr_avg_reg_correction_rms vs run
χ² / ndf 2.414e+04 / 92
p0 8177 ± 6.049
11000
10500
10000
9500
9000
8500
8000
7500
7000
6500

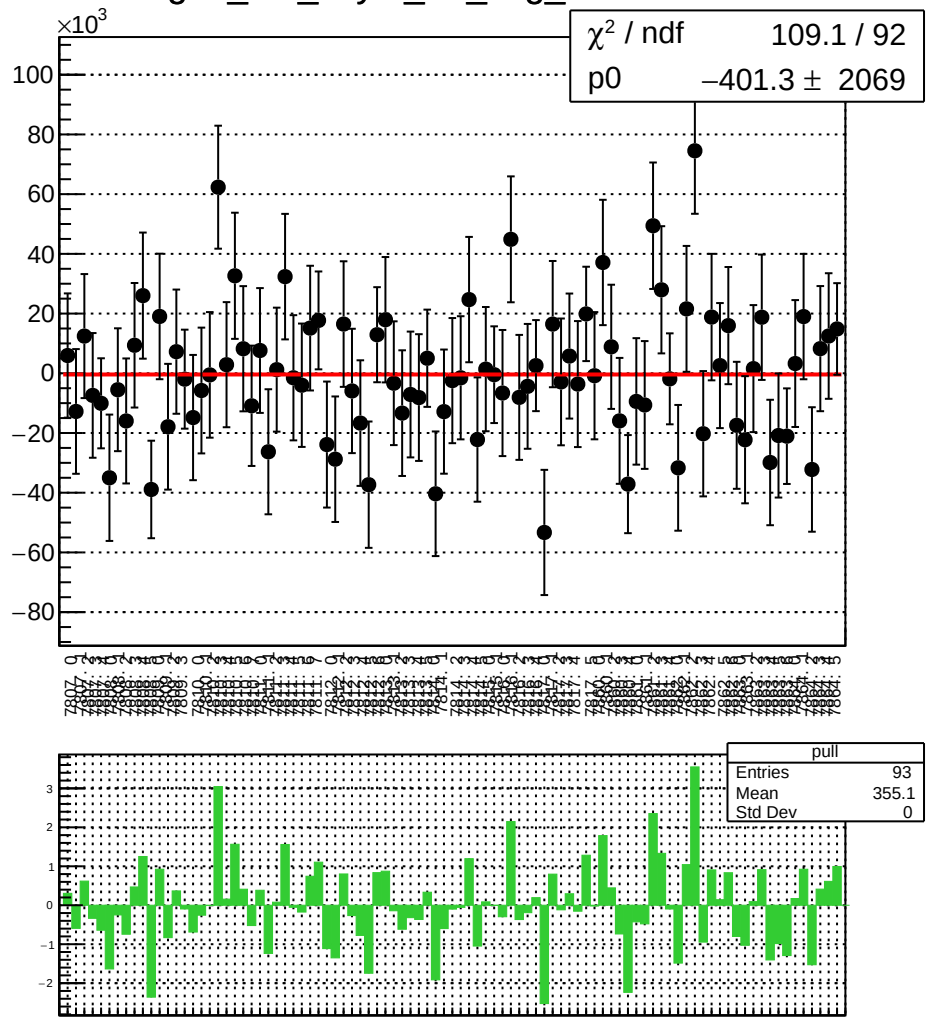

cor_asym_atr_avg_mean vs run
×10^3
χ² / ndf 109.1 / 92
p0 −401.3 ± 2069
pull
Entries 93
Mean 355.1
Std Dev 0
pull1D
Entries 93
Mean 0.004751
Std Dev 1.083

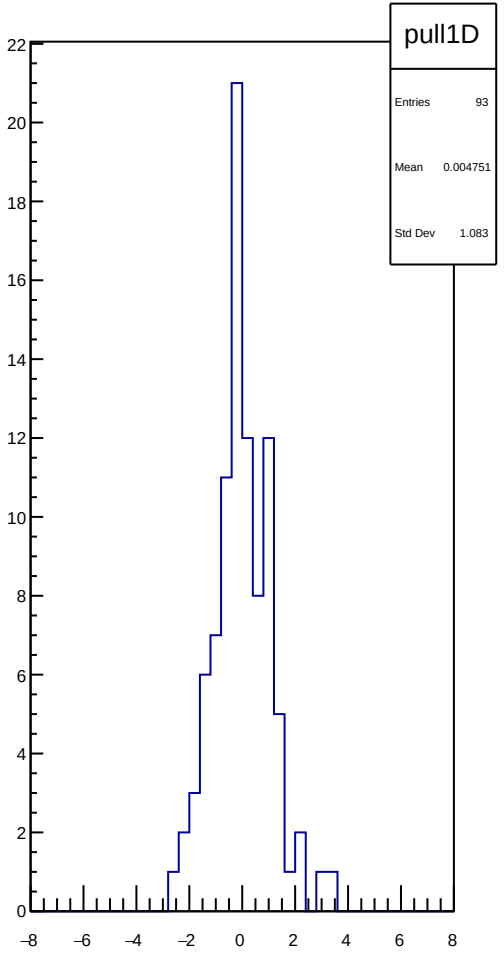

cor_asym_atr_avg_rms vs run
χ² / ndf 106.2 / 92
p0 1991 ± 1.463
2040
2020
2000
1980
1960
1940

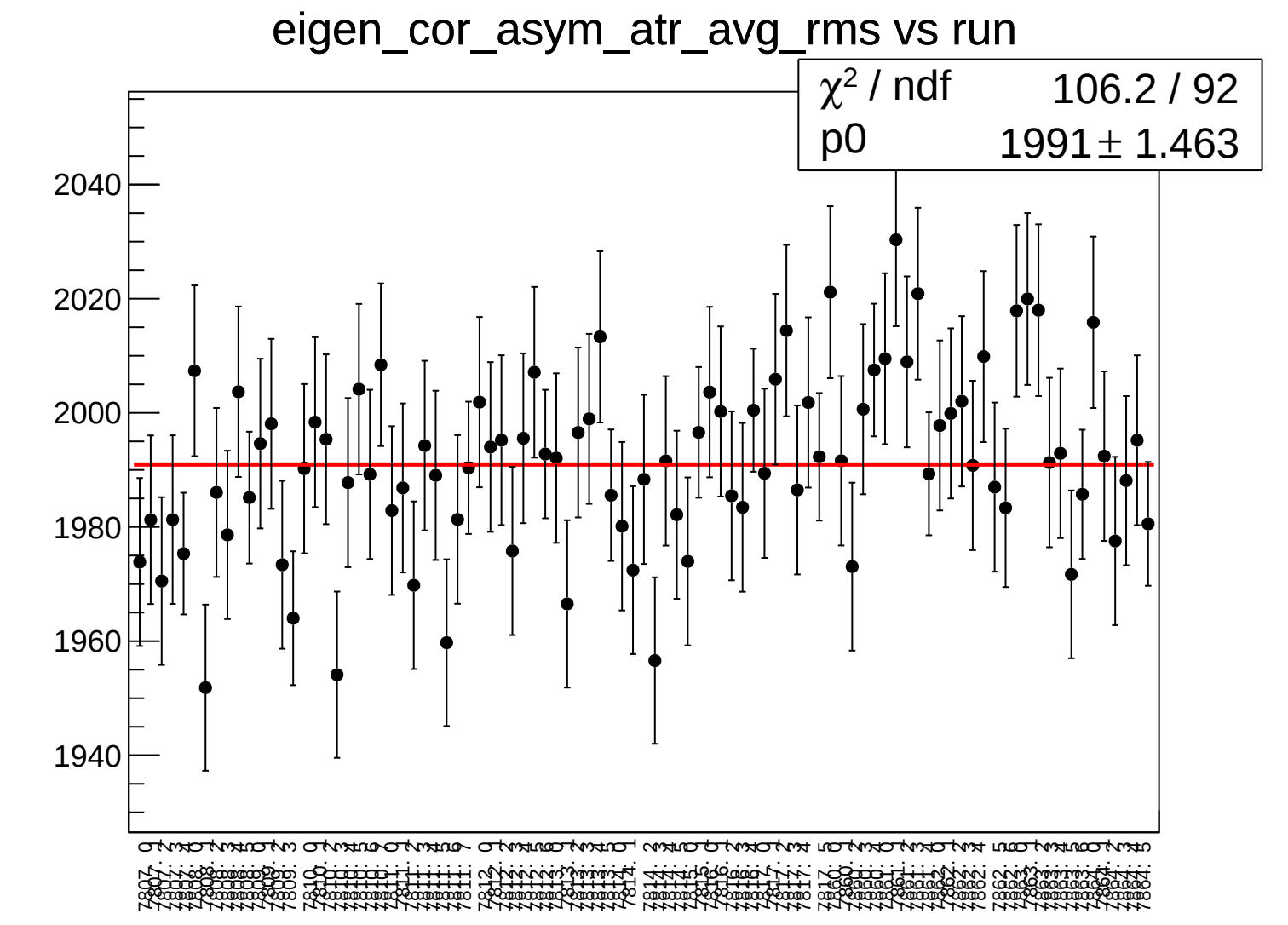

asym_atr_avg_cor_correction_mean vs run
×10^3
χ² / ndf 84.32 / 92
p0 8214 ± 8554
pull
Entries 93
Mean −43.66
Std Dev 0

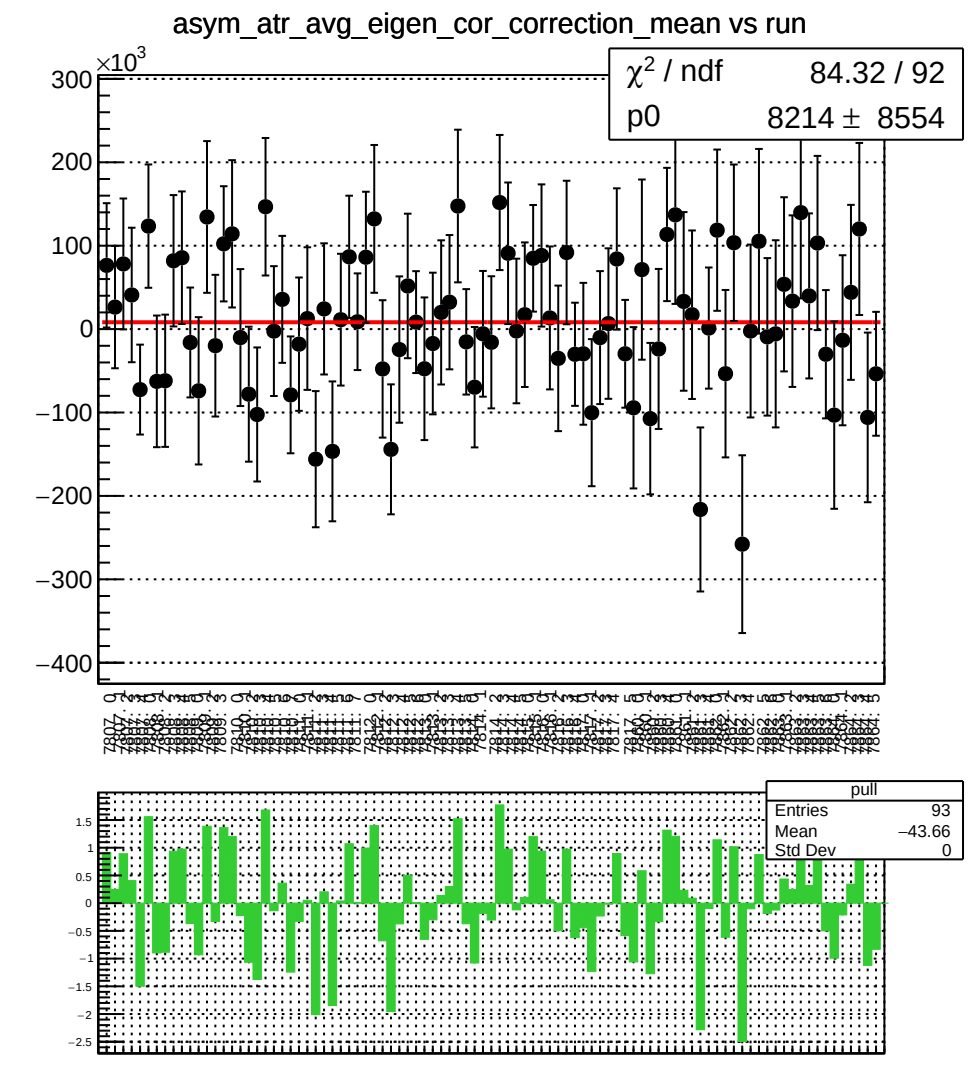

pull1D
Entries 93
Mean 0.01229
Std Dev 0.9521

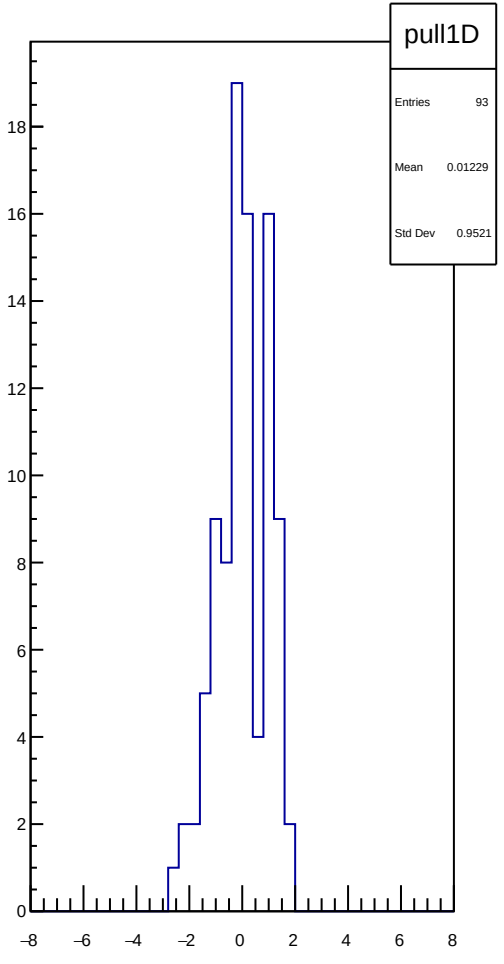

asym_atr_avg_cor_correction_rms vs run
χ² / ndf 2.414e+04 / 92
p0 8177 ± 6.049
11000
10500
10000
9500
9000
8500
8000
7500
7000
6500

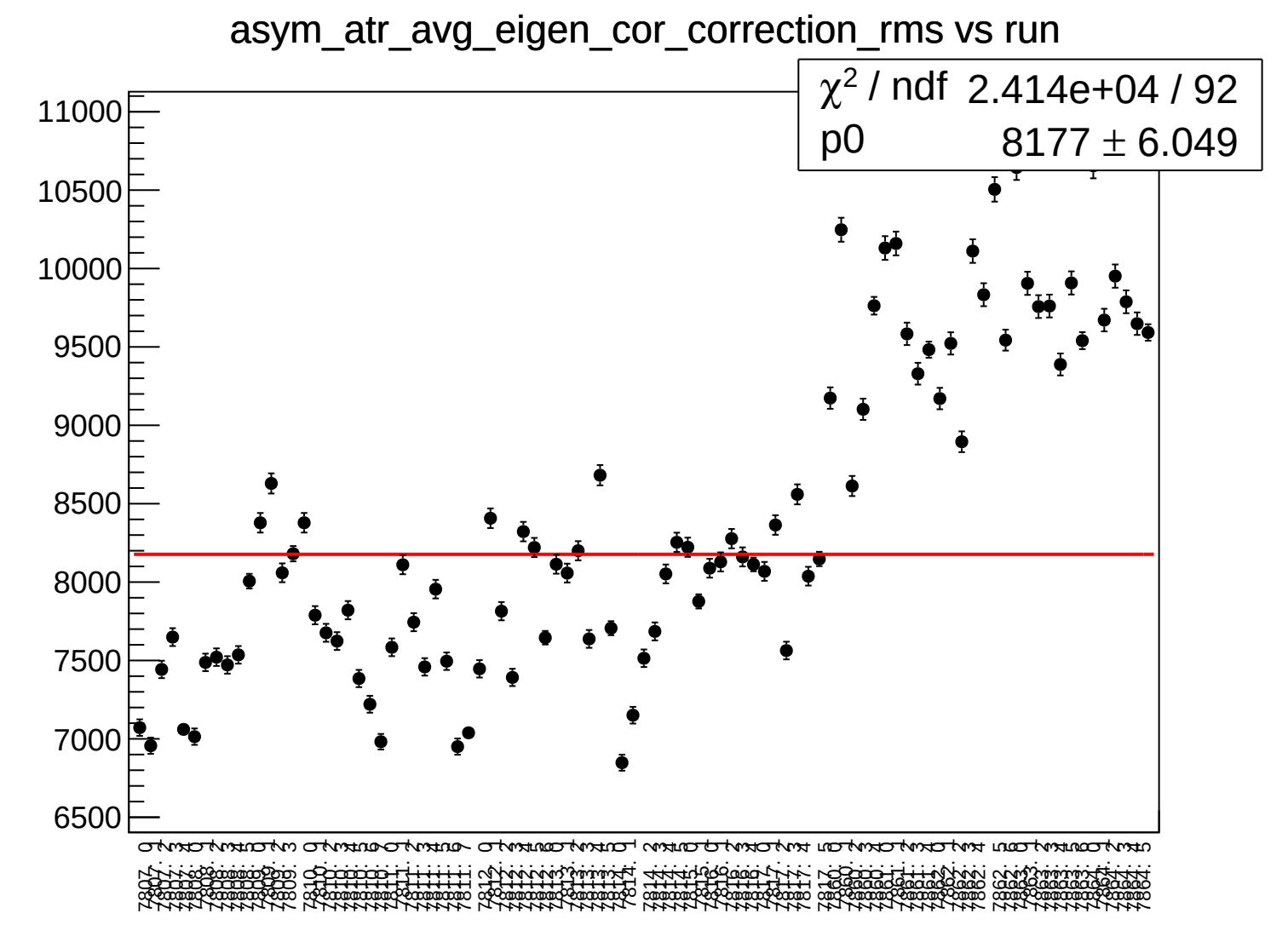

eigen_cor_asym_atr_avg_mean vs run
×10^3
χ² / ndf 109.1 / 92
p0 −401.3 ± 2069
pull
Entries 93
Mean 355.1
Std Dev 0

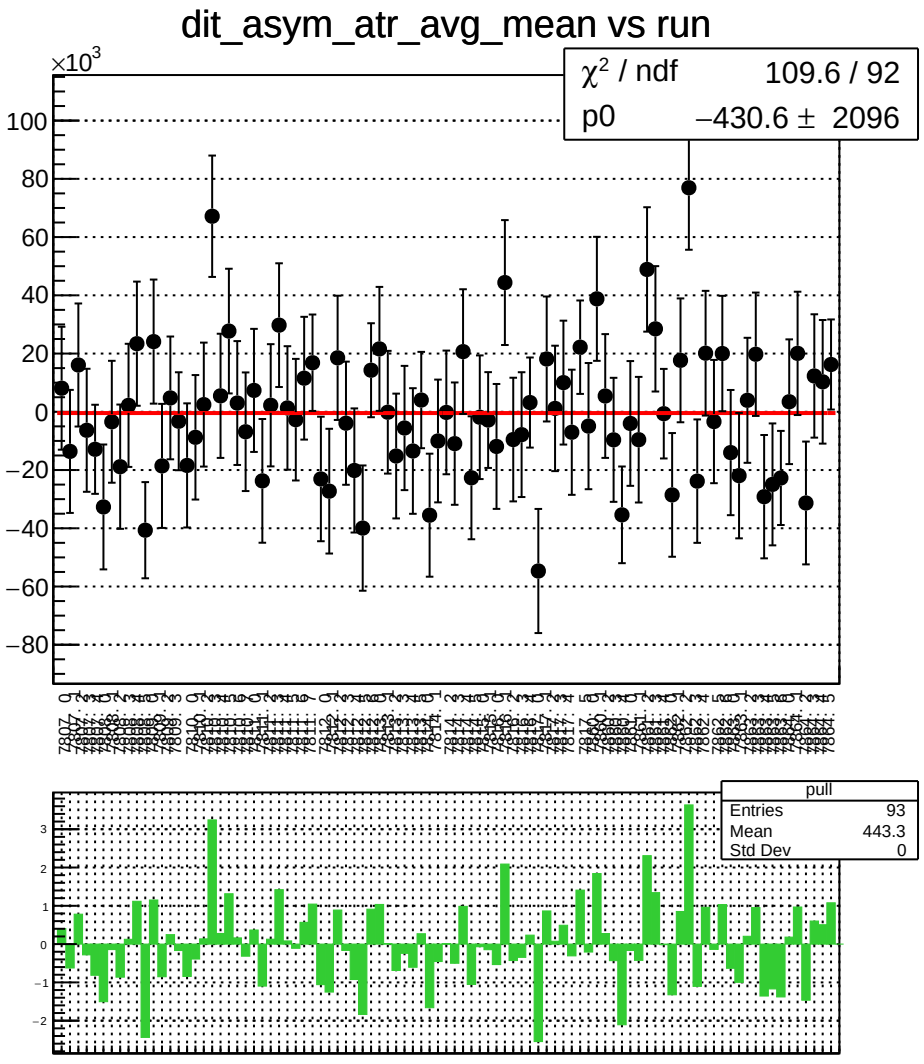

pull1D
Entries 93
Mean 0.004751
Std Dev 1.083

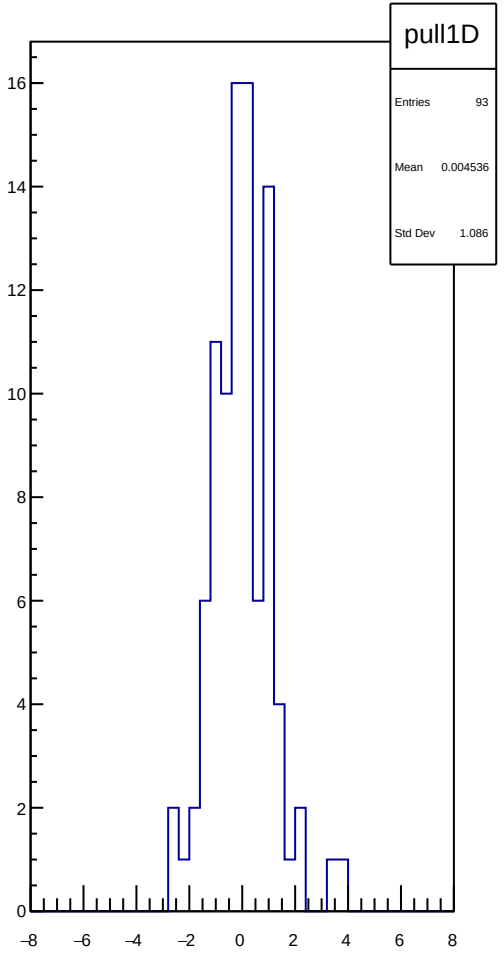

eigen_cor_asym_atr_avg_rms vs run
χ² / ndf 106.2 / 92
p0 1991 ± 1.463
2040
2020
2000
1980
1960
1940

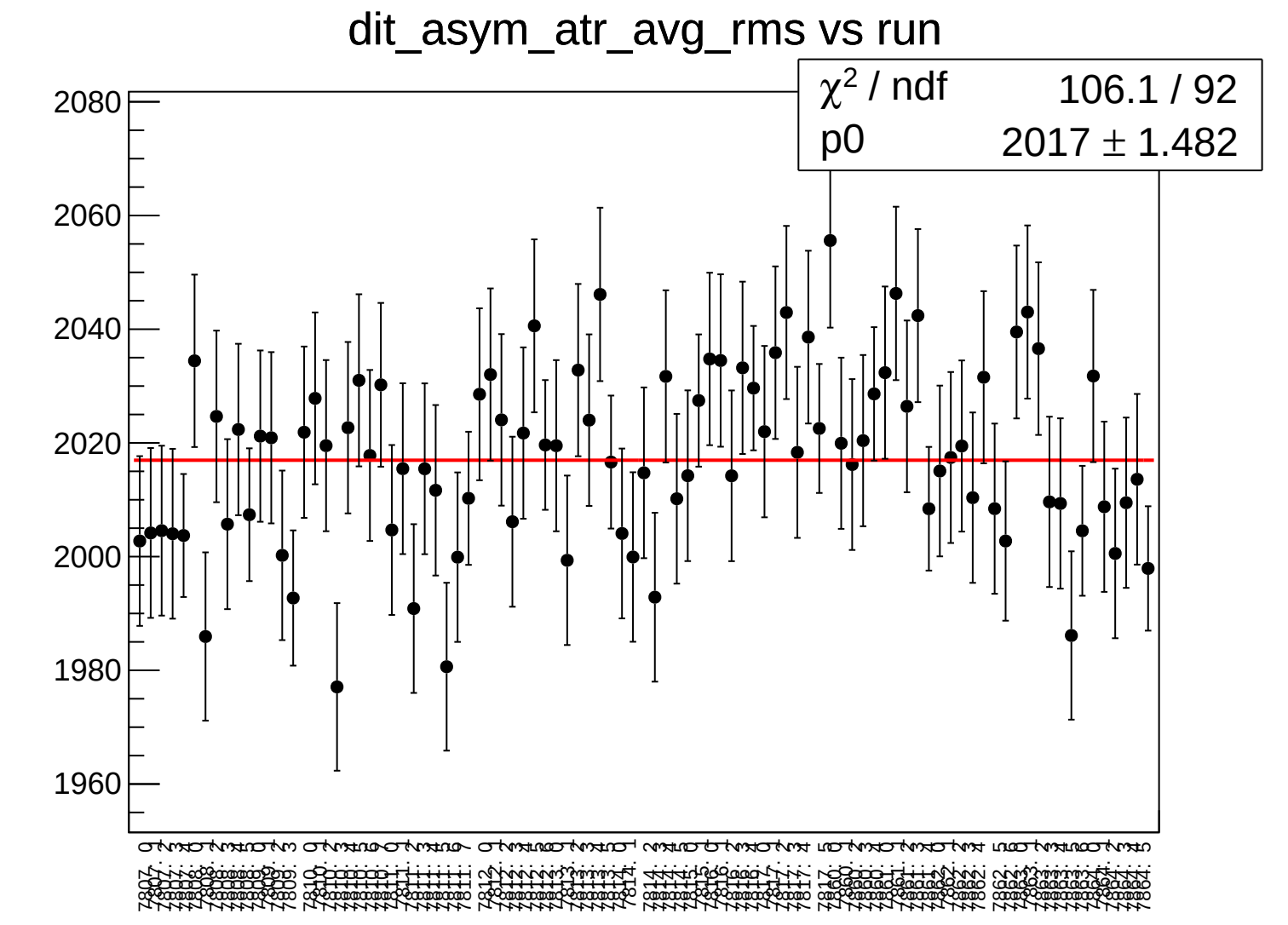

asym_atr_avg_eigen_cor_correction_mean vs run
χ² / ndf 84.32 / 92
p0 8214 ± 8554
×10³
pull
Entries 93
Mean −43.66
Std Dev 0

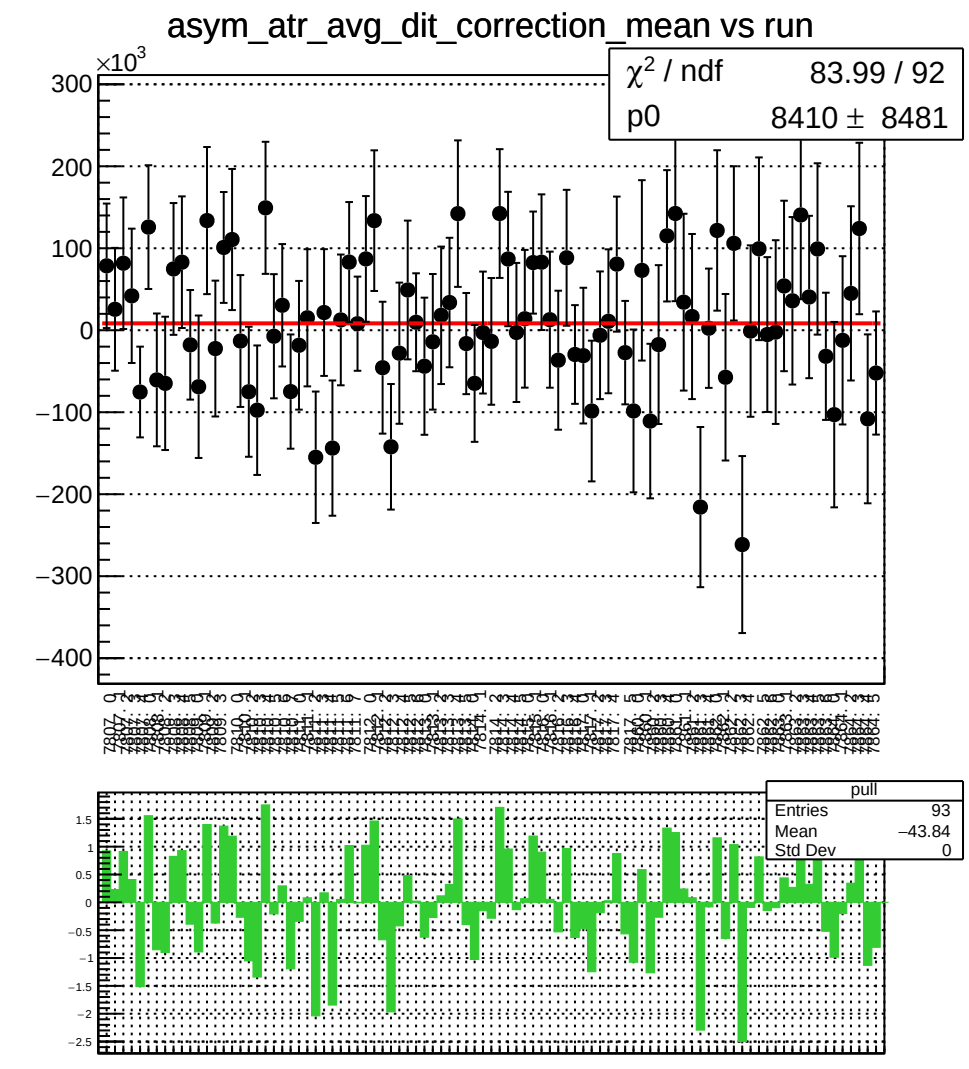

pull1D
Entries 93
Mean 0.01229
Std Dev 0.9521

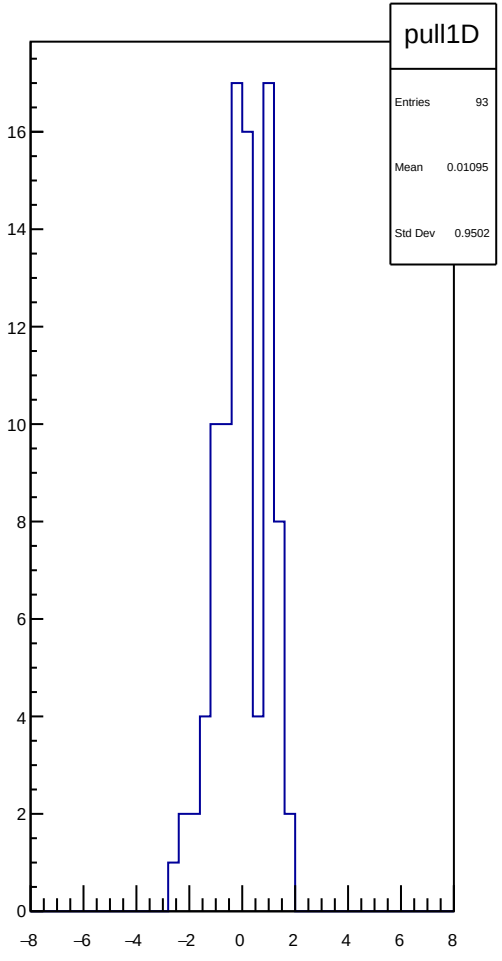

asym_atr_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.414e+04 / 92
p0 8177 ± 6.049
11000
10500
10000
9500
9000
8500
8000
7500
7000
6500

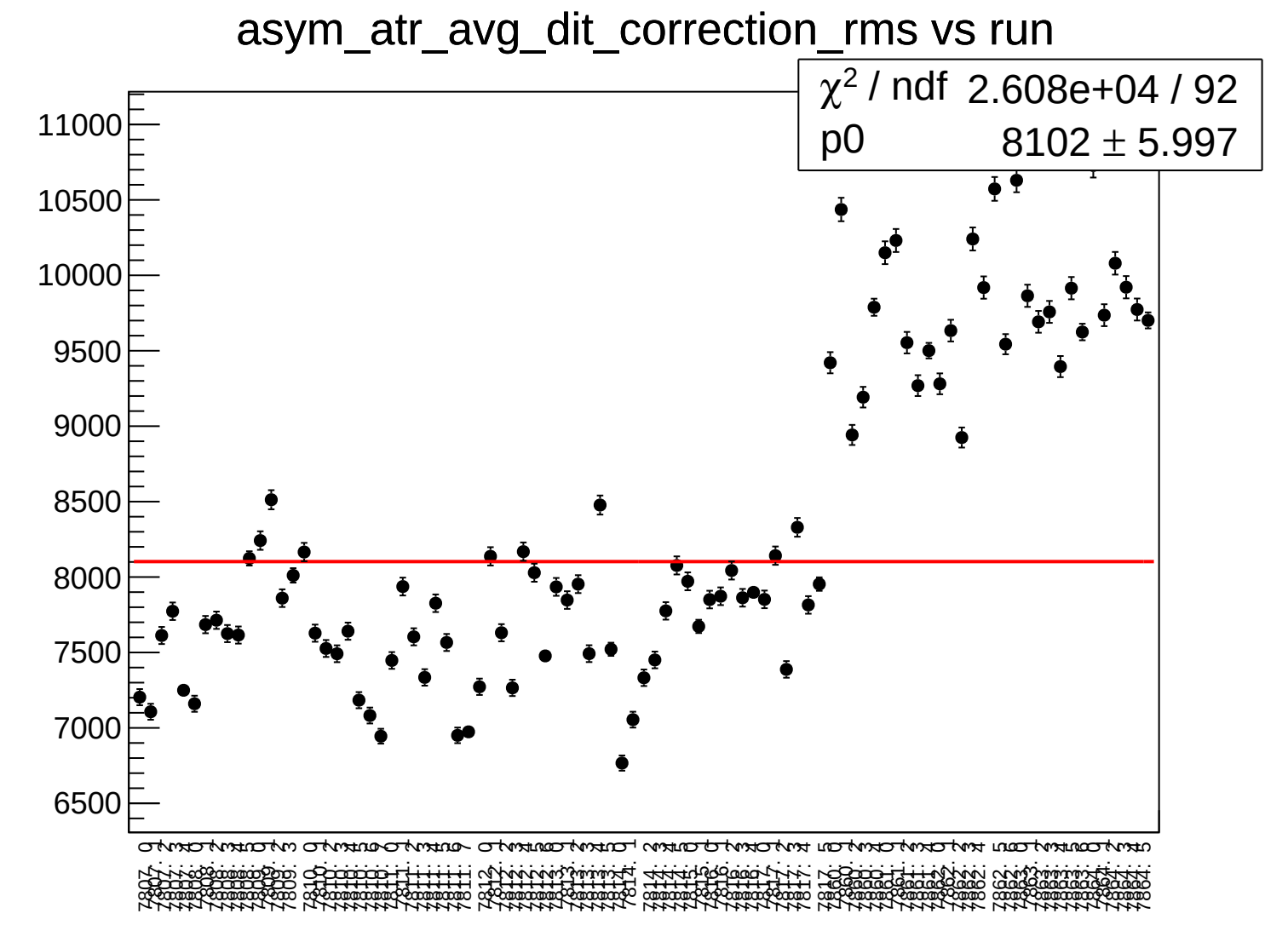

dit_asym_atr_avg_mean vs run
×10^3
χ² / ndf 109.6 / 92
p0 −430.6 ± 2096
100
80
60
40
20
0
−20
−40
−60
−80
pull
Entries 93
Mean 443.3
Std Dev 0
3
2
1
0
−1
−2

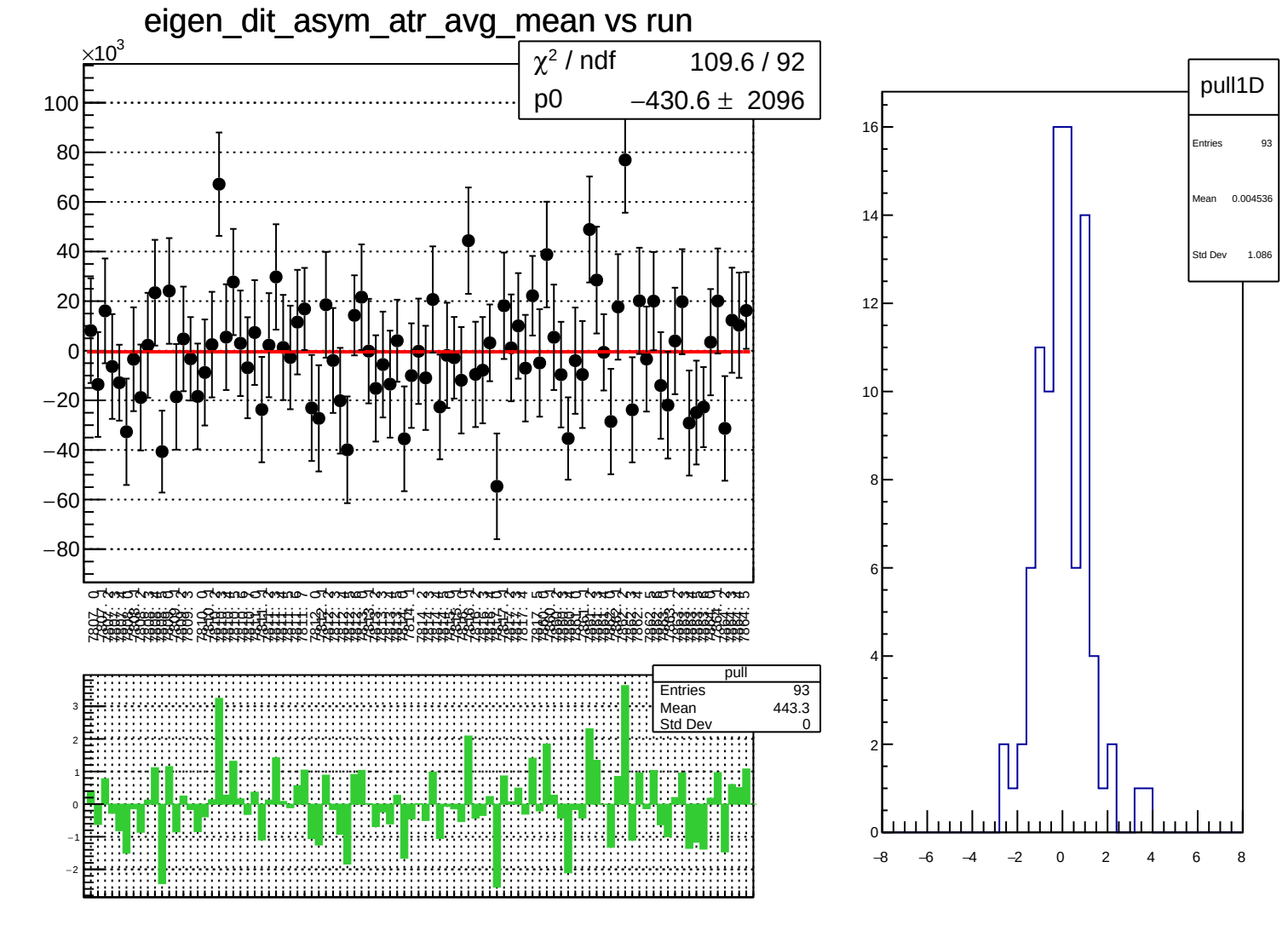

pull1D
Entries 93
Mean 0.004536
Std Dev 1.086
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

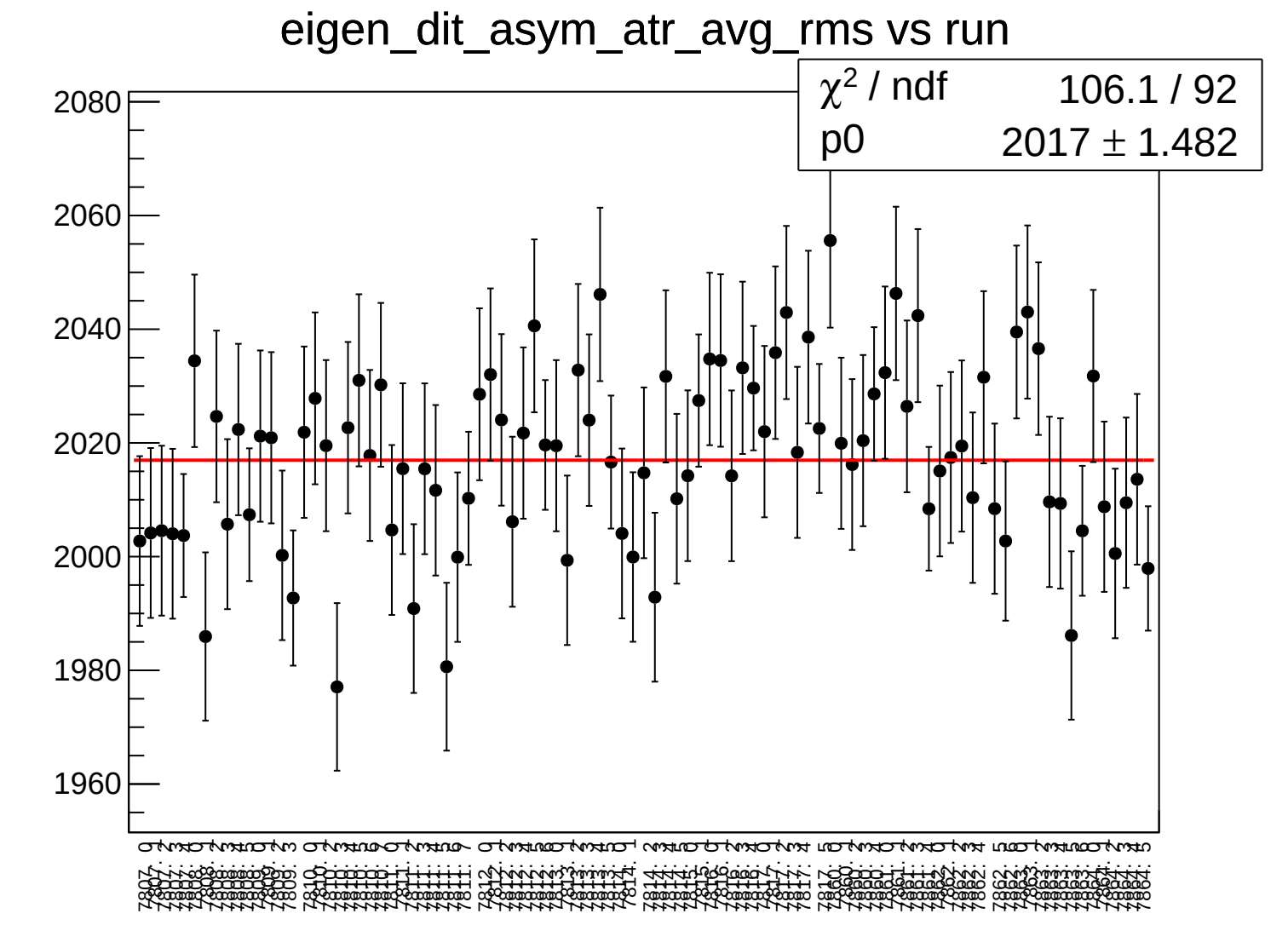

dit_asym_atr_avg_rms vs run
χ² / ndf 106.1 / 92
p0 2017 ± 1.482
2080
2060
2040
2020
2000
1980
1960

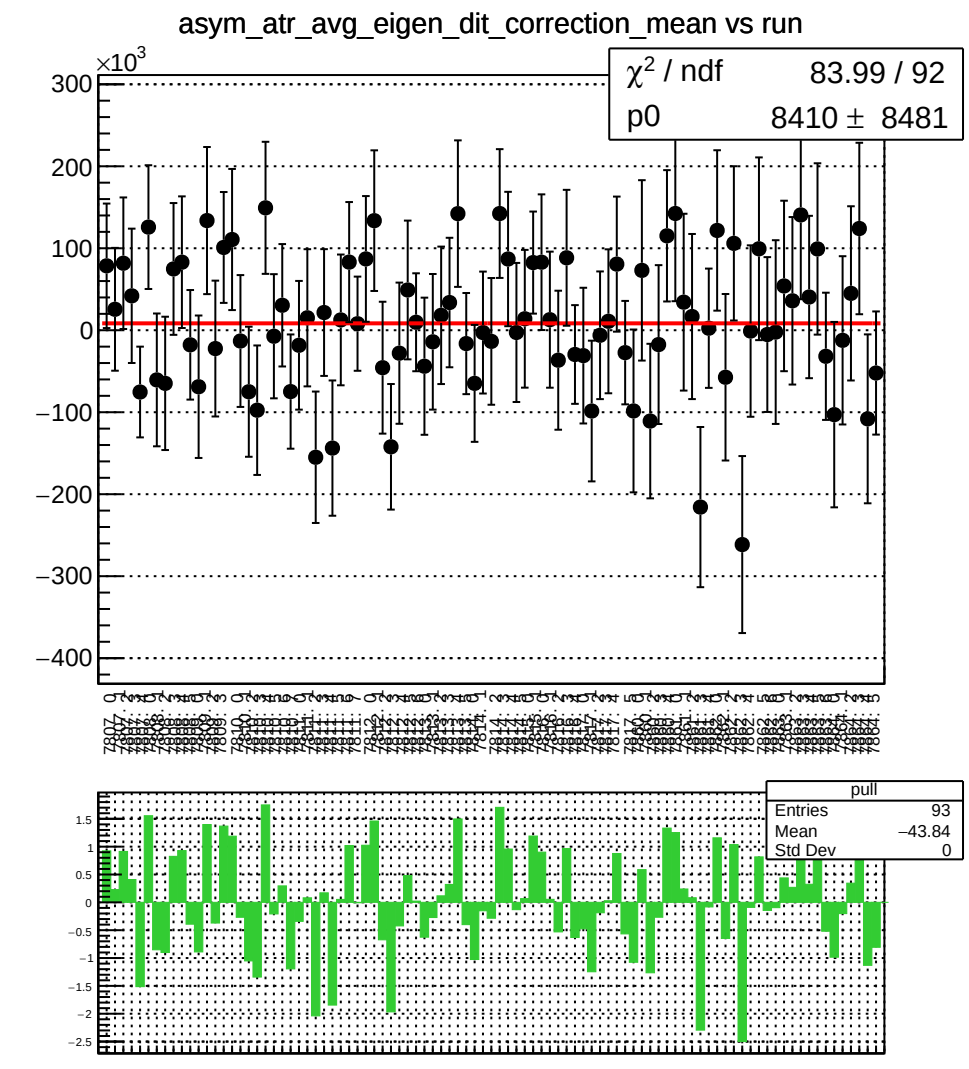

asym_atr_avg_dit_correction_mean vs run
χ² / ndf 83.99 / 92
p0 8410 ± 8481
×10³
pull
Entries 93
Mean −43.84
Std Dev 0

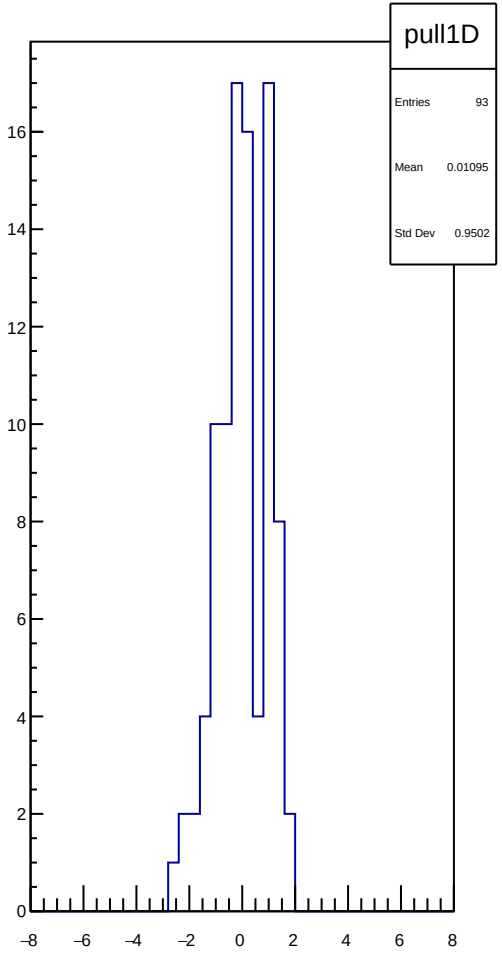

pull1D
Entries 93
Mean 0.01095
Std Dev 0.9502

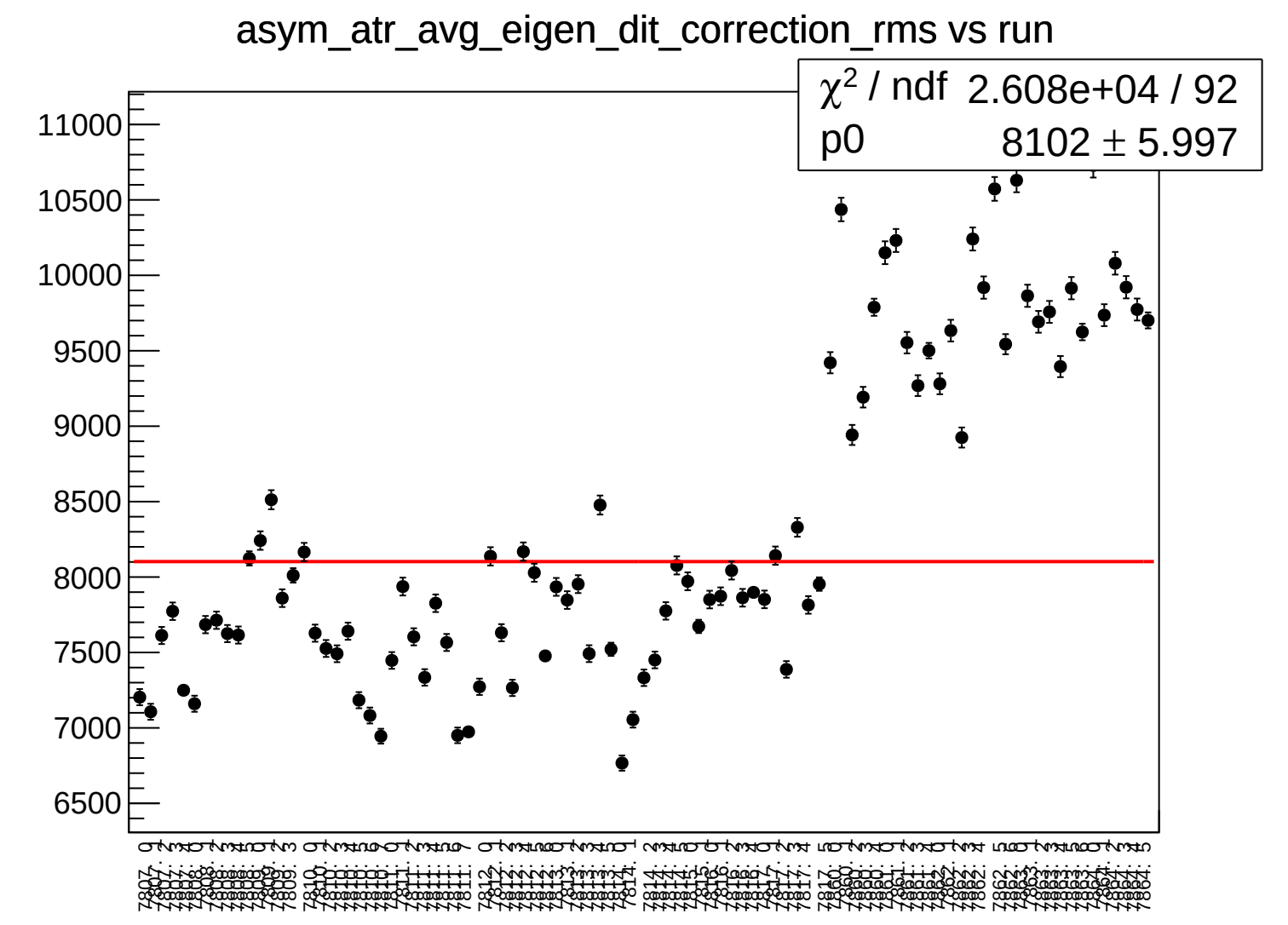

asym_atr_avg_dit_correction_rms vs run
χ² / ndf 2.608e+04 / 92
p0 8102 ± 5.997
11000
10500
10000
9500
9000
8500
8000
7500
7000
6500

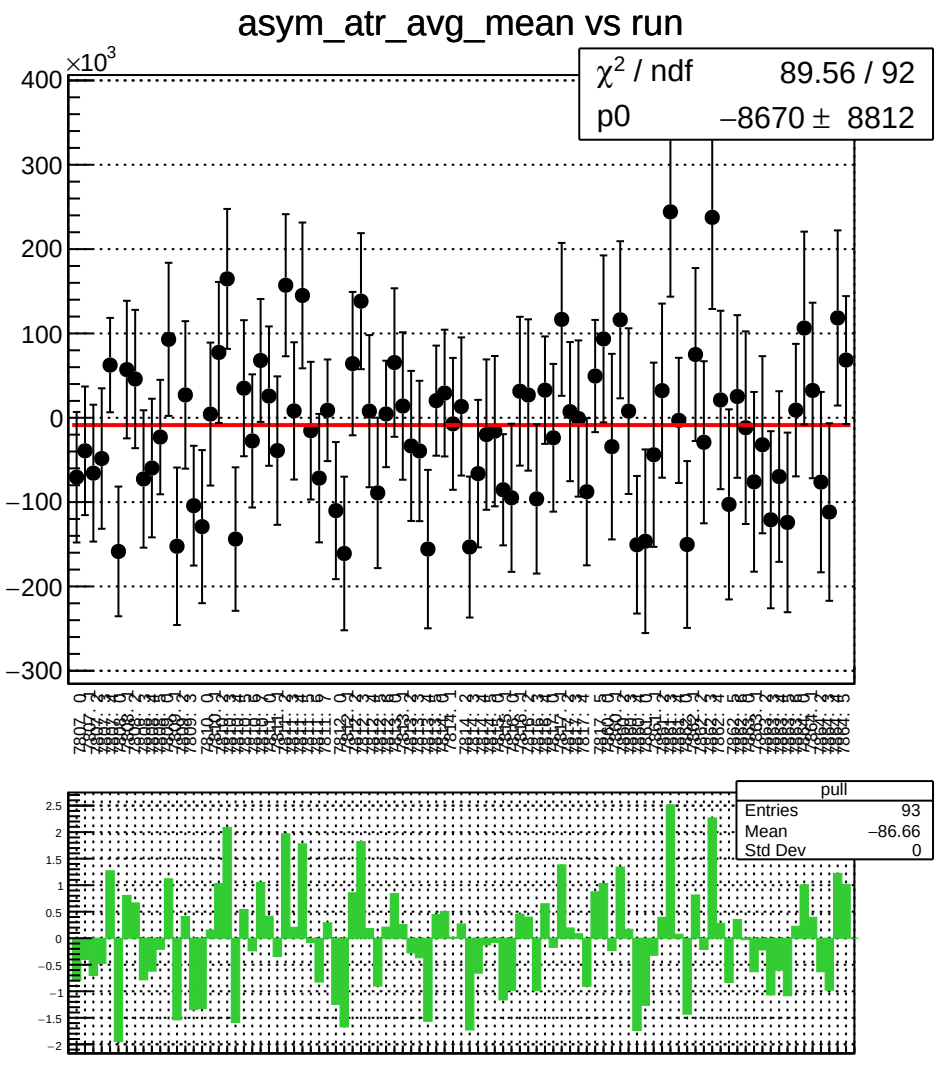

eigen_dit_asym_atr_avg_mean vs run
χ² / ndf 109.6 / 92
p0 −430.6 ± 2096
×10³
pull
Entries 93
Mean 443.3
Std Dev 0
pull1D
Entries 93
Mean 0.004536
Std Dev 1.086

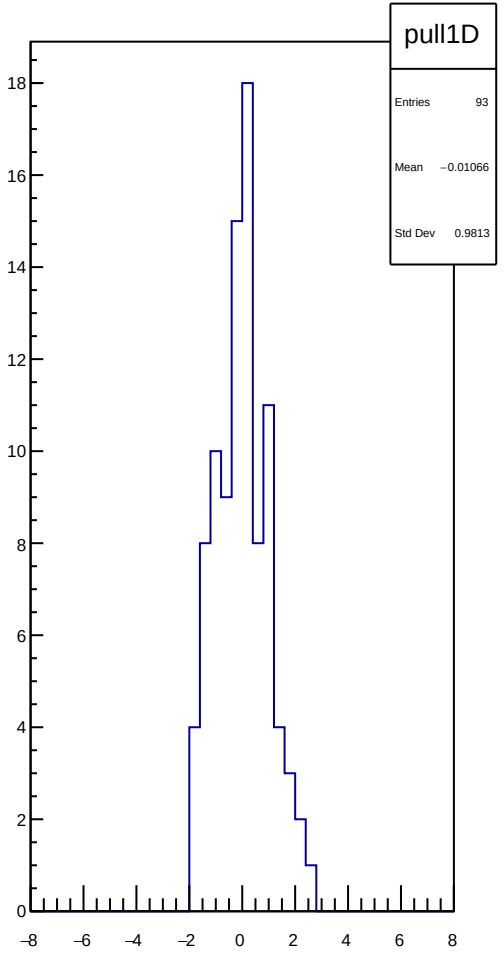

eigen_dit_asym_atr_avg_rms vs run
χ² / ndf 106.1 / 92
p0 2017 ± 1.482
2080
2060
2040
2020
2000
1980
1960


asym_atr_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 83.99 / 92
p0 8410 ± 8481
pull
Entries 93
Mean −43.84
Std Dev 0

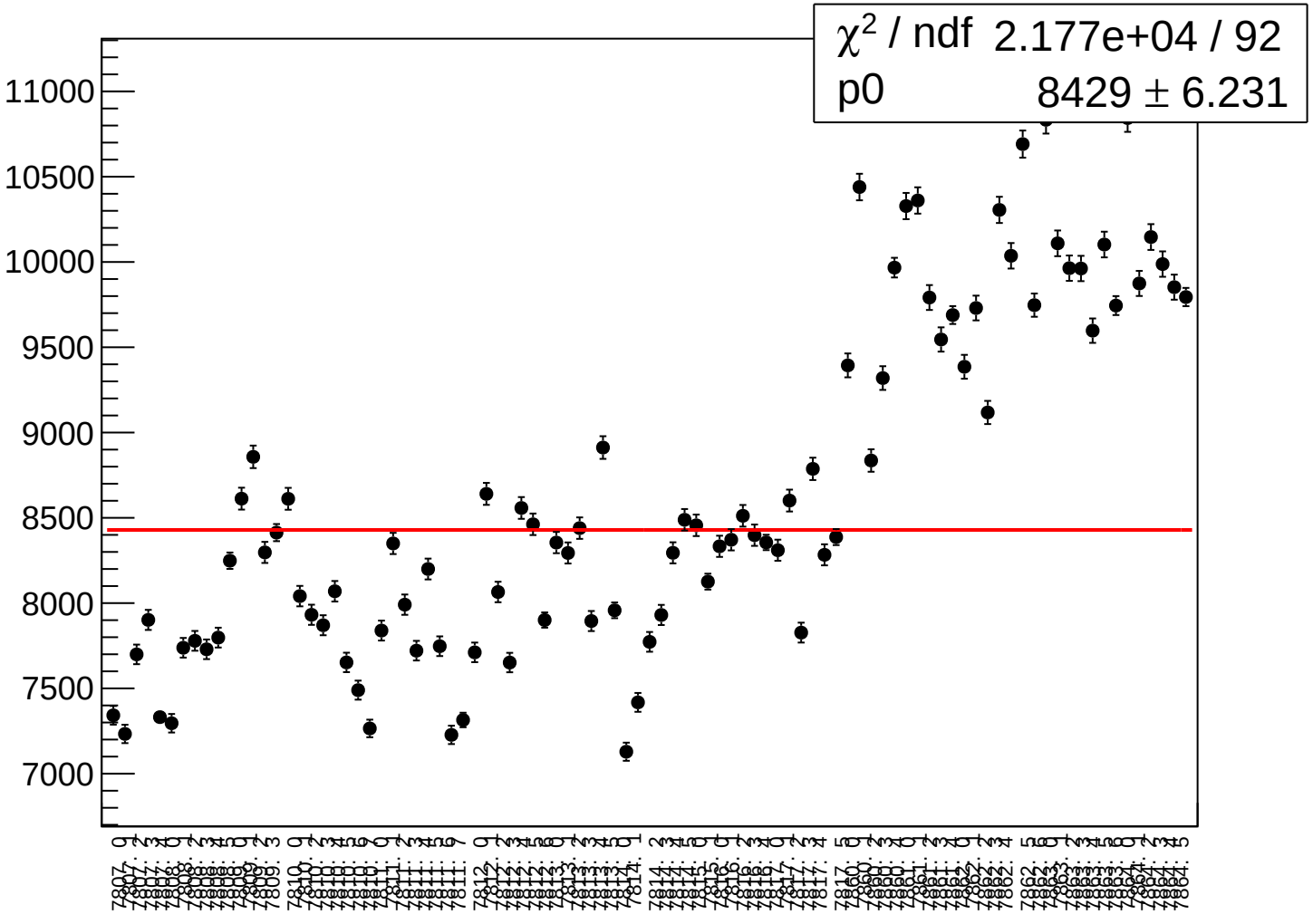

pull1D
Entries 93
Mean 0.01095
Std Dev 0.9502

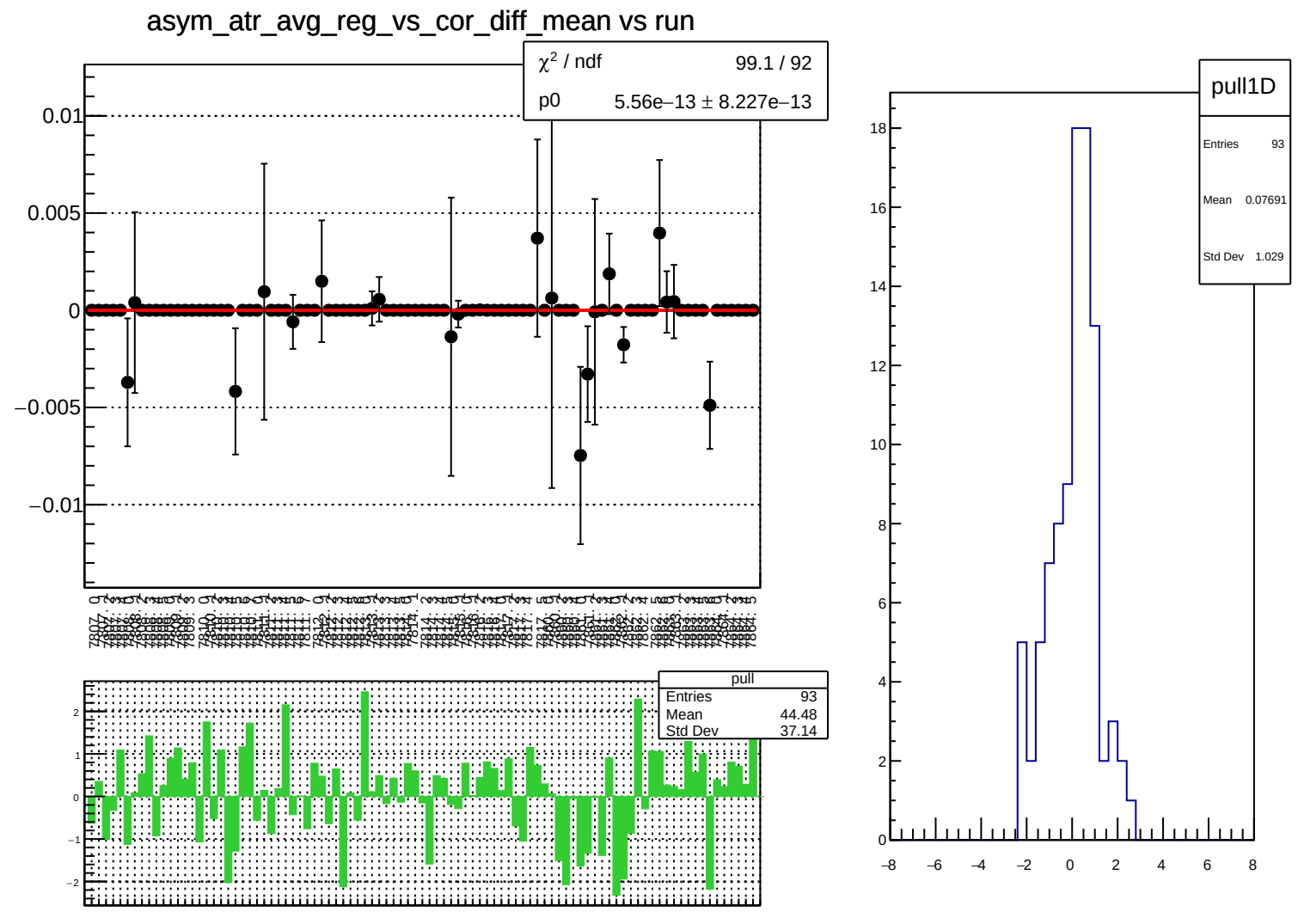

asym_atr_avg_eigen_dit_correction_rms vs run
χ^2 / ndf 2.608e+04 / 92
p0 8102 ± 5.997
11000
10500
10000
9500
9000
8500
8000
7500
7000
6500

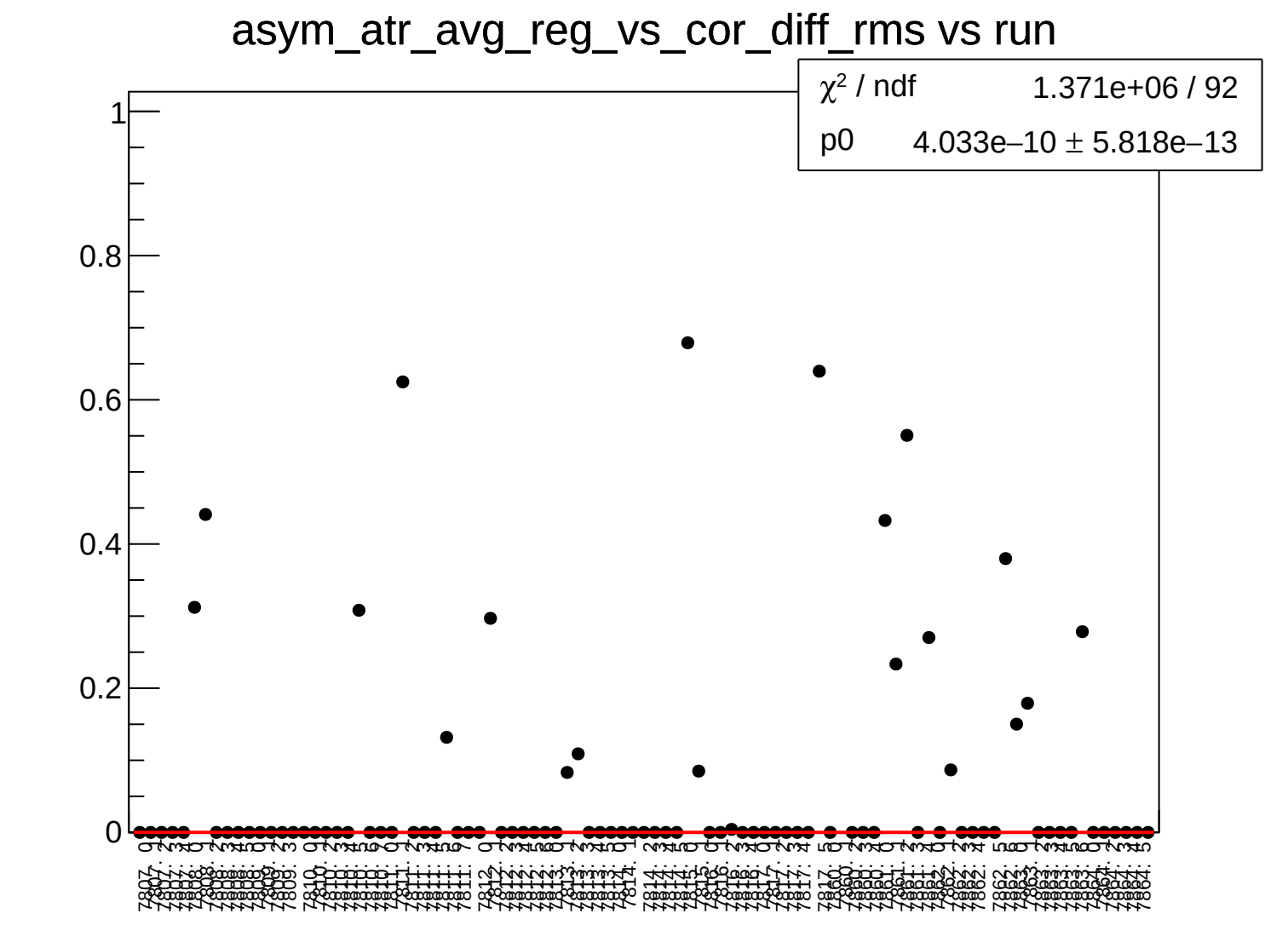

asym_atr_avg_mean vs run
×10^3
χ² / ndf 89.56 / 92
p0 −8670 ± 8812
pull
Entries 93
Mean −86.66
Std Dev 0

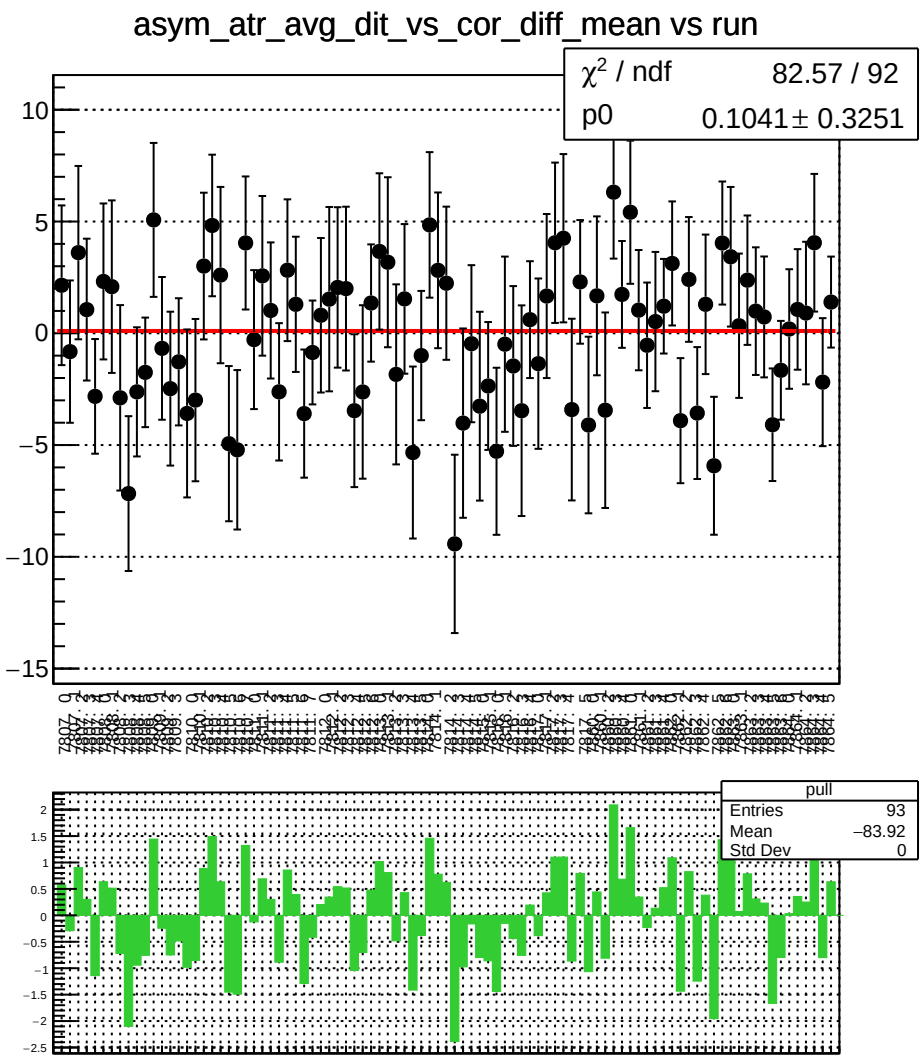

pull1D
Entries 93
Mean −0.01066
Std Dev 0.9813

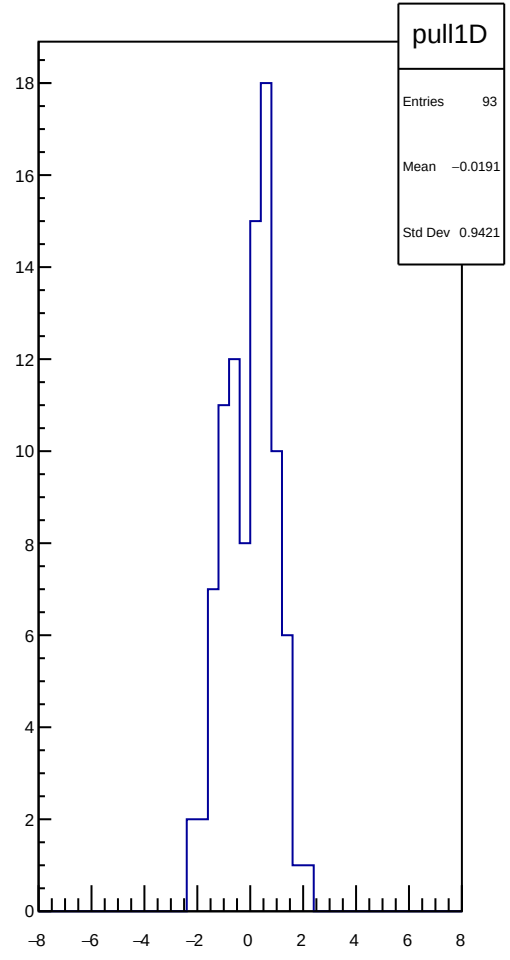
asym_atr_avg_rms vs run

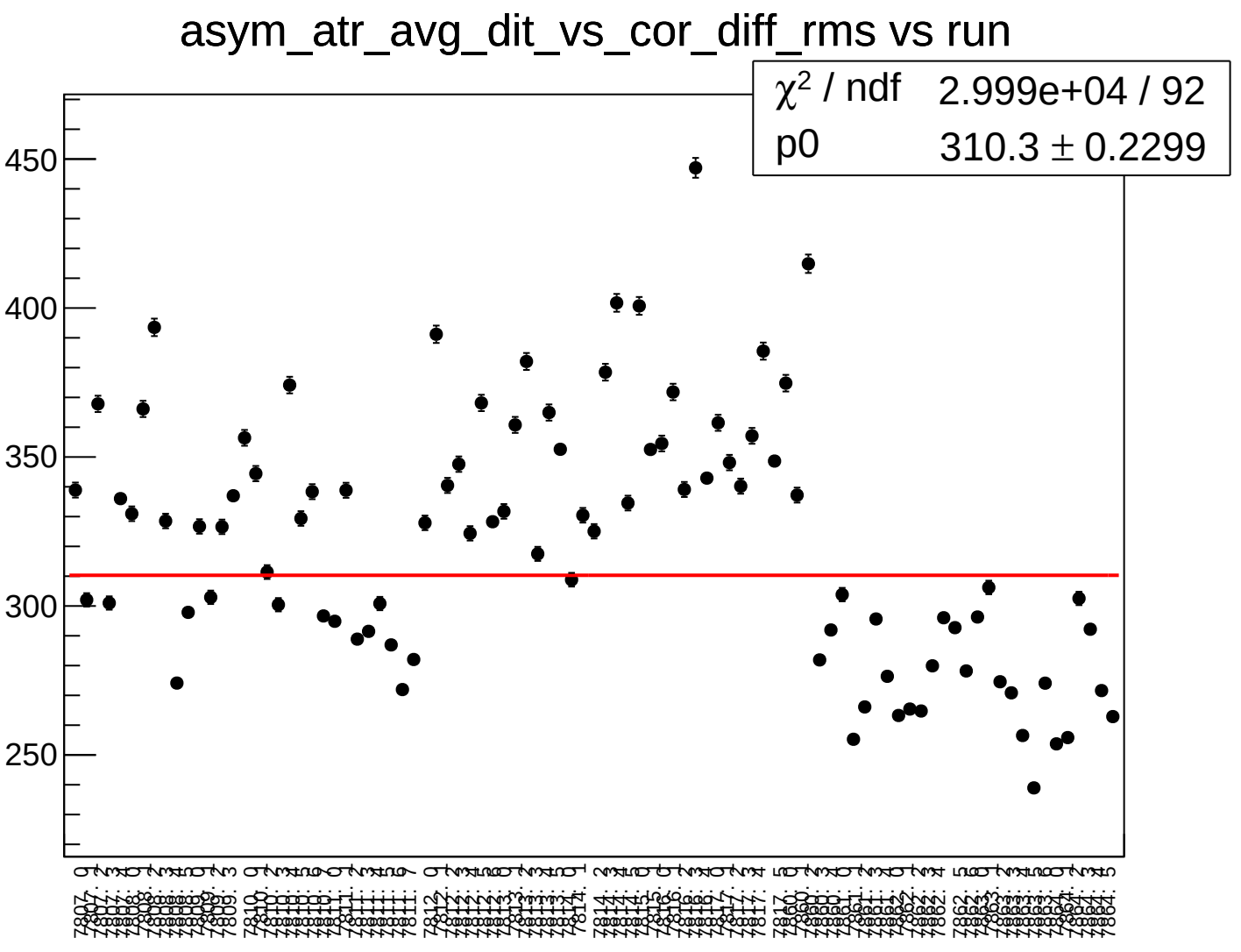


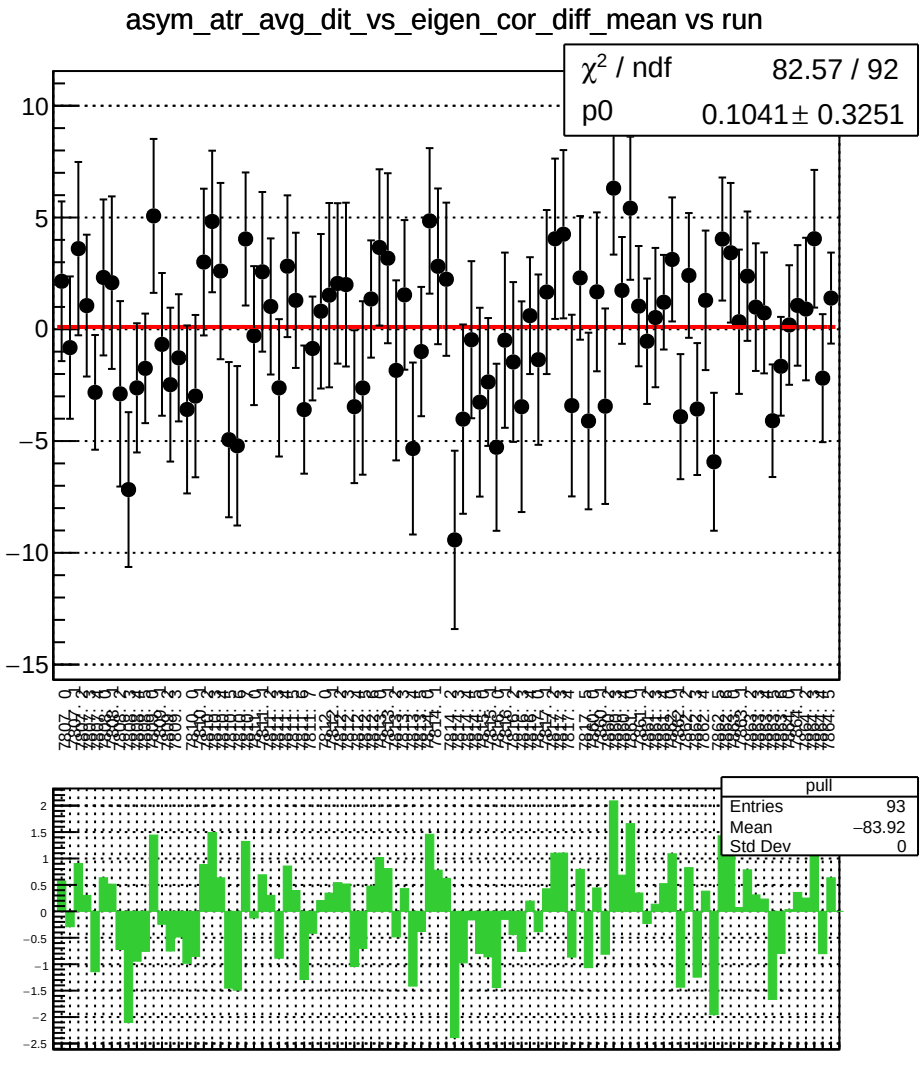

asym_atr_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 99.1 / 92
p0 5.56e−13 ± 8.227e−13
0.01
0.005
0
−0.005
−0.01
pull
Entries 93
Mean 44.48
Std Dev 37.14
pull1D
Entries 93
Mean 0.07691
Std Dev 1.029

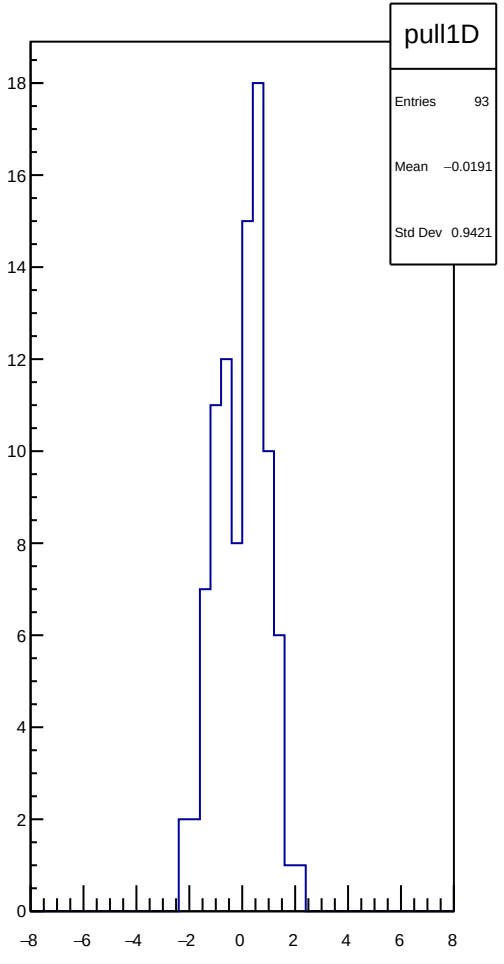

asym_atr_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.371e+06 / 92
p0 4.033e−10 ± 5.818e−13
1
0.8
0.6
0.4
0.2
0

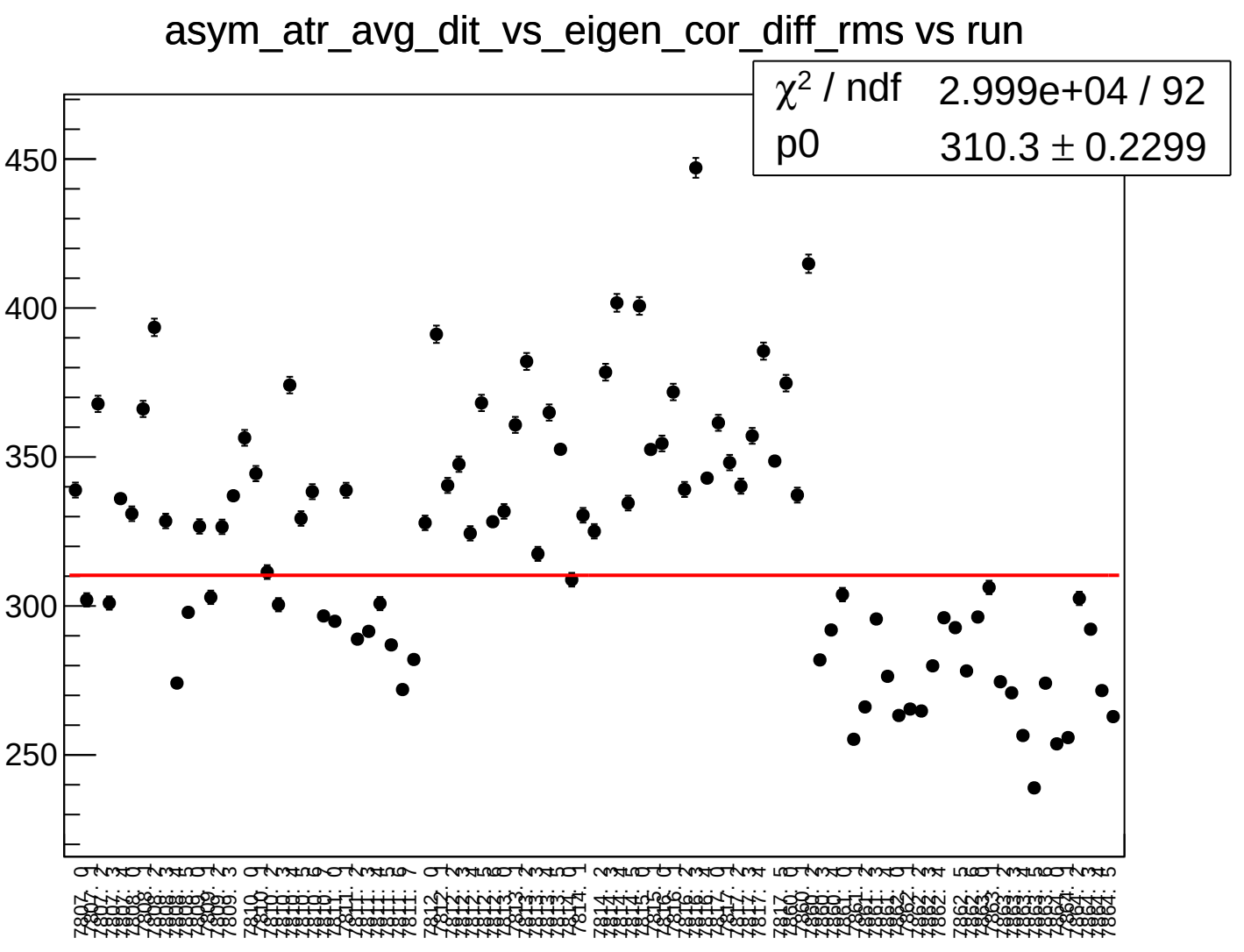

asym_atr_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 82.57 / 92
p0 0.1041± 0.3251
pull
Entries 93
Mean −83.92
Std Dev 0

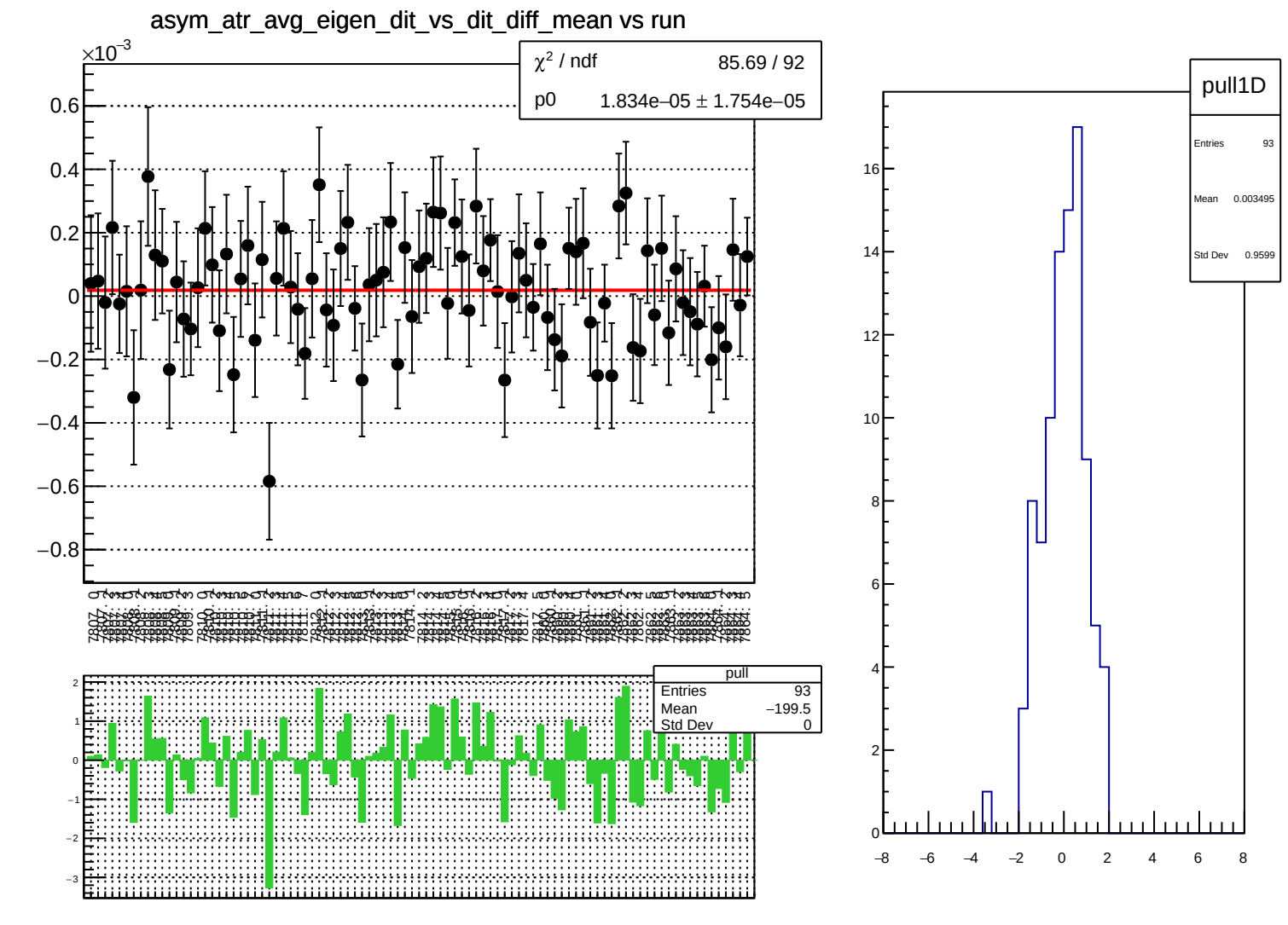

pull1D
Entries 93
Mean −0.0191
Std Dev 0.9421

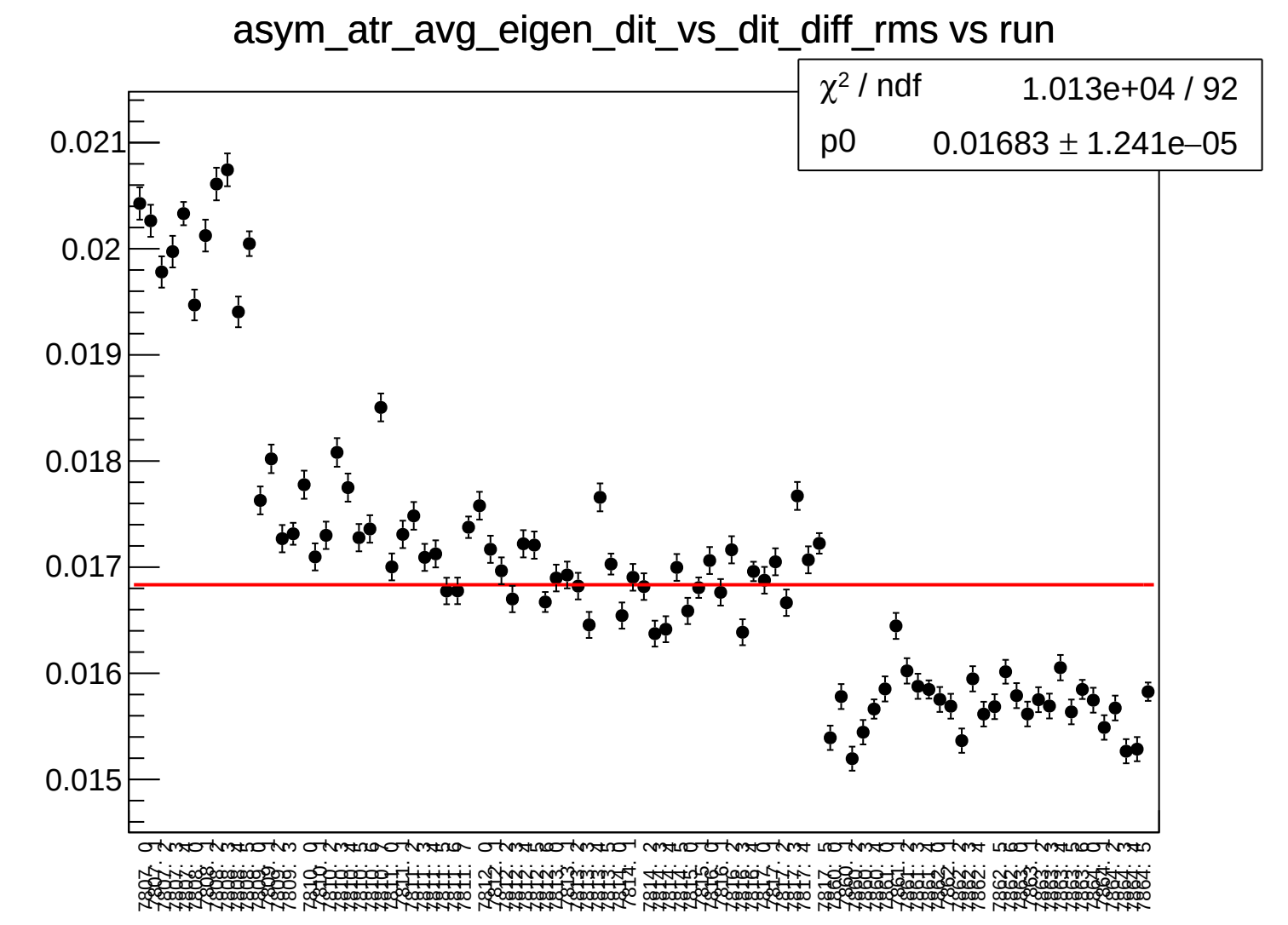

asym_atr_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.999e+04 / 92
p0 310.3 ± 0.2299
450
400
350
300
250

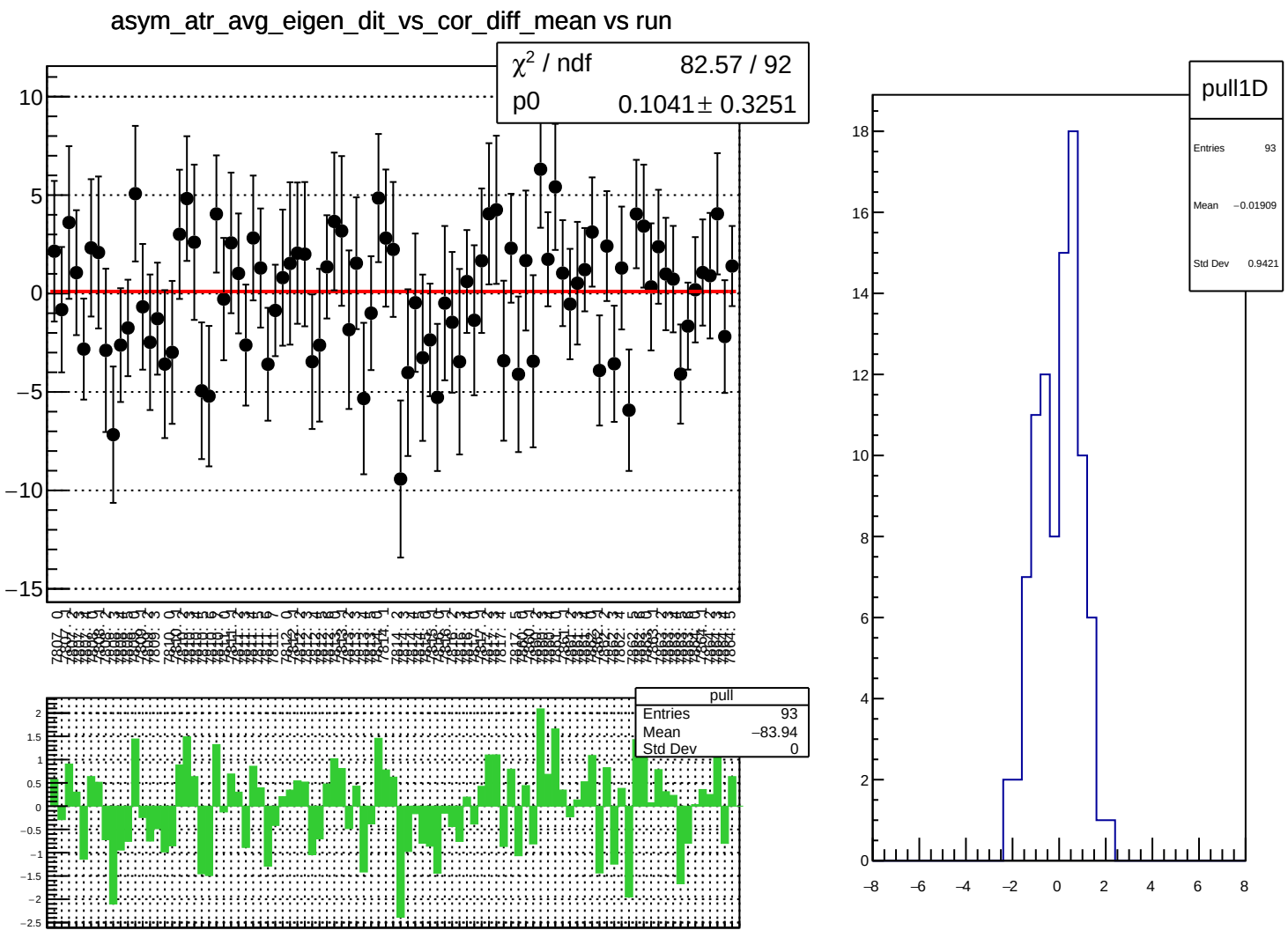

asym_atr_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.57 / 92
p0 0.1041± 0.3251
pull
Entries 93
Mean −83.92
Std Dev 0

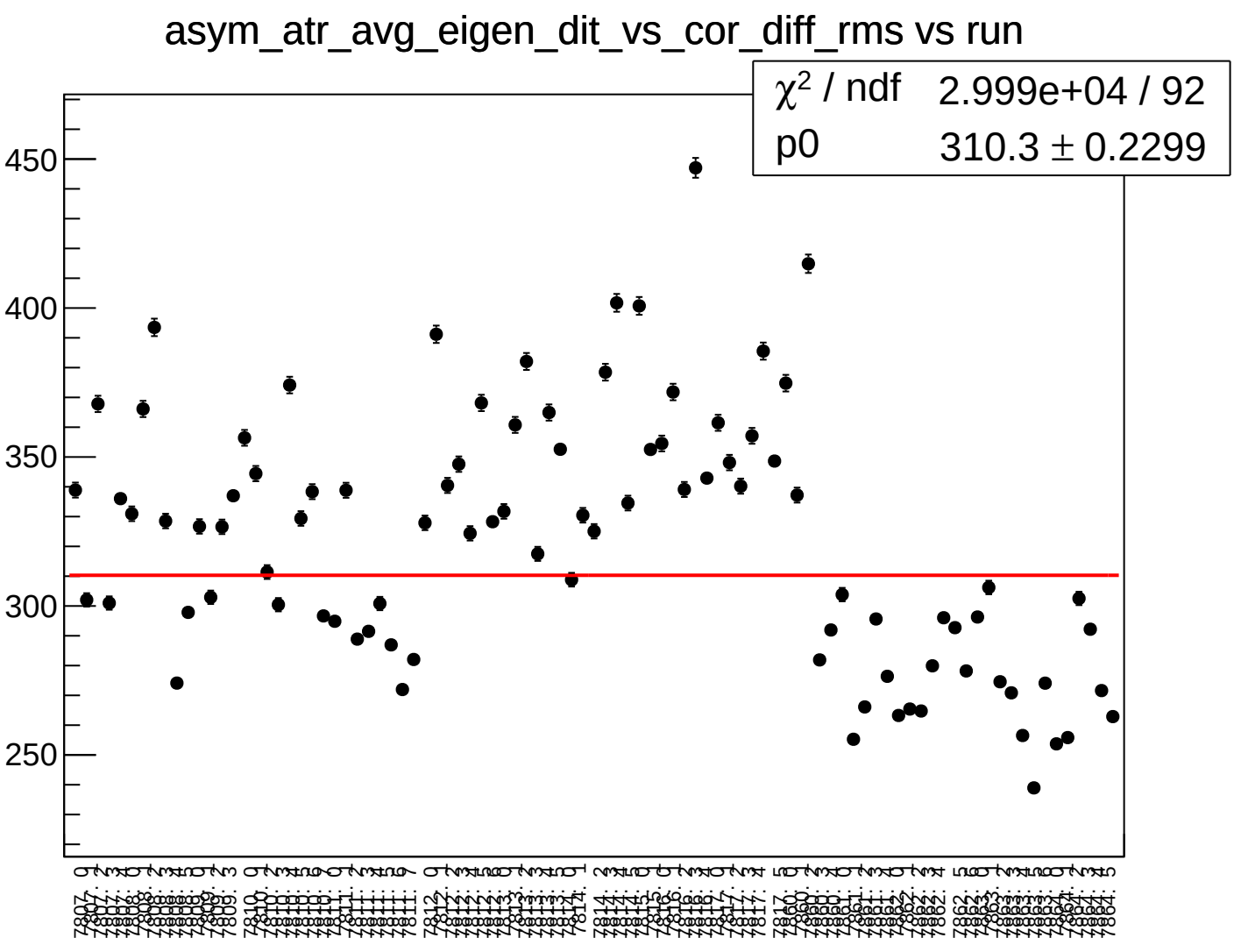

pull1D
Entries 93
Mean −0.0191
Std Dev 0.9421

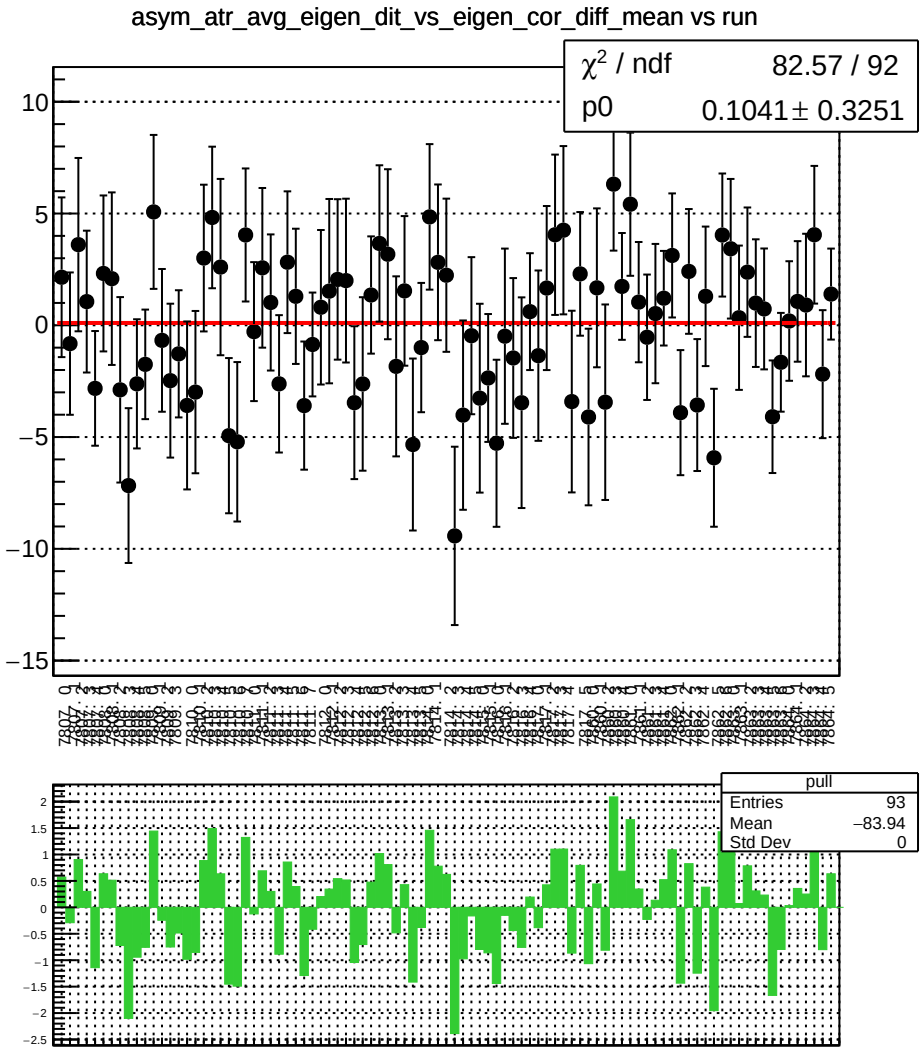

asym_atr_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.999e+04 / 92
p0 310.3 ± 0.2299
450
400
350
300
250

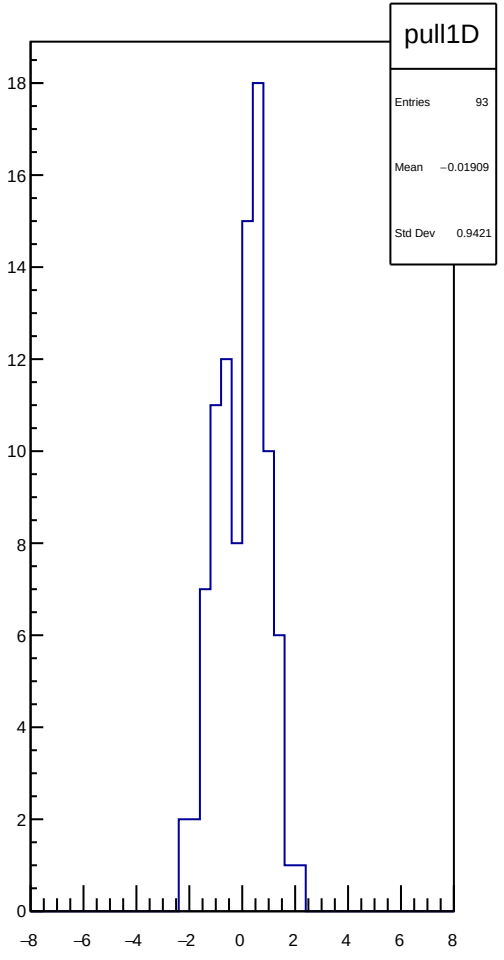

asym_atr_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.69 / 92
p0 1.834e−05 ± 1.754e−05
pull
Entries 93
Mean −199.5
Std Dev 0
pull1D
Entries 93
Mean 0.003495
Std Dev 0.9599

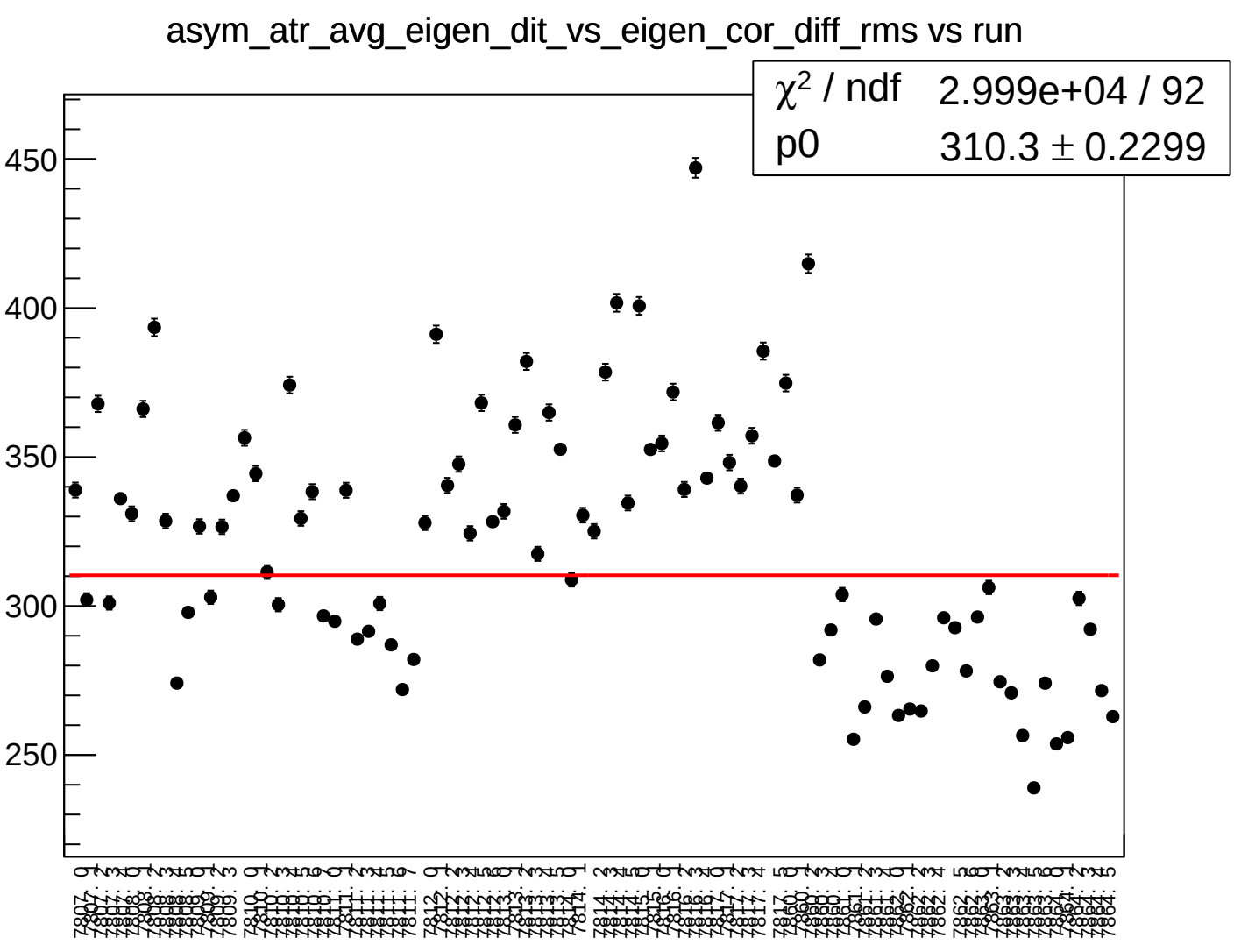

asym_atr_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.013e+04 / 92
p0 0.01683 ± 1.241e−05
0.021
0.02
0.019
0.018
0.017
0.016
0.015

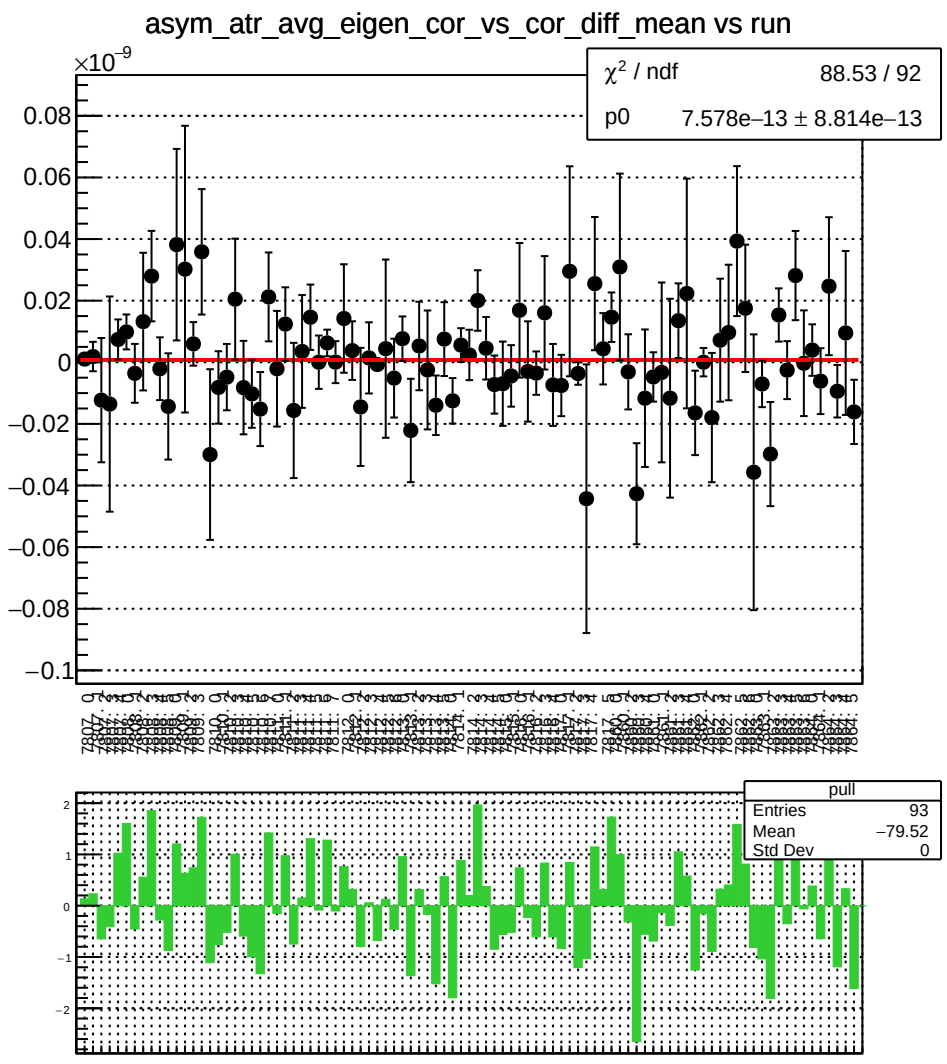

asym_atr_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.57 / 92
p0 0.1041± 0.3251
pull
Entries 93
Mean −83.94
Std Dev 0
pull1D
Entries 93
Mean −0.01909
Std Dev 0.9421

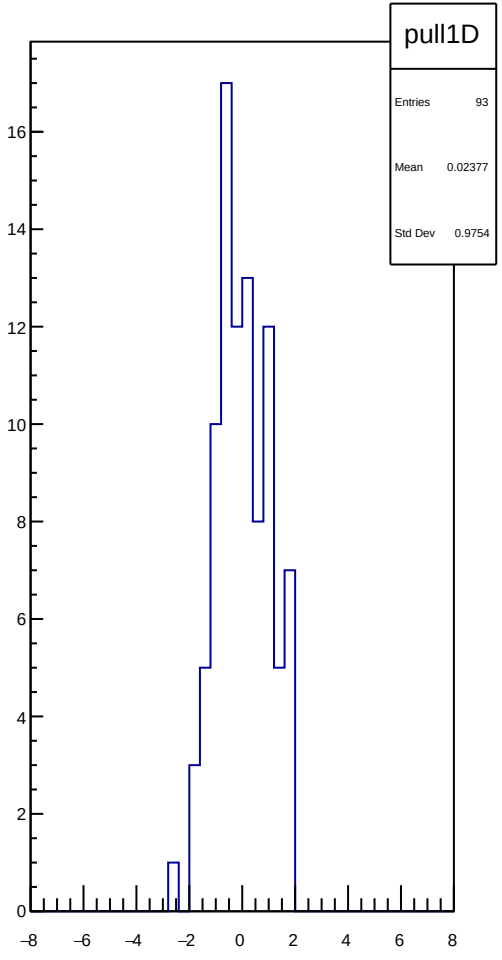

asym_atr_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.999e+04 / 92
p0 310.3 ± 0.2299
450
400
350
300
250

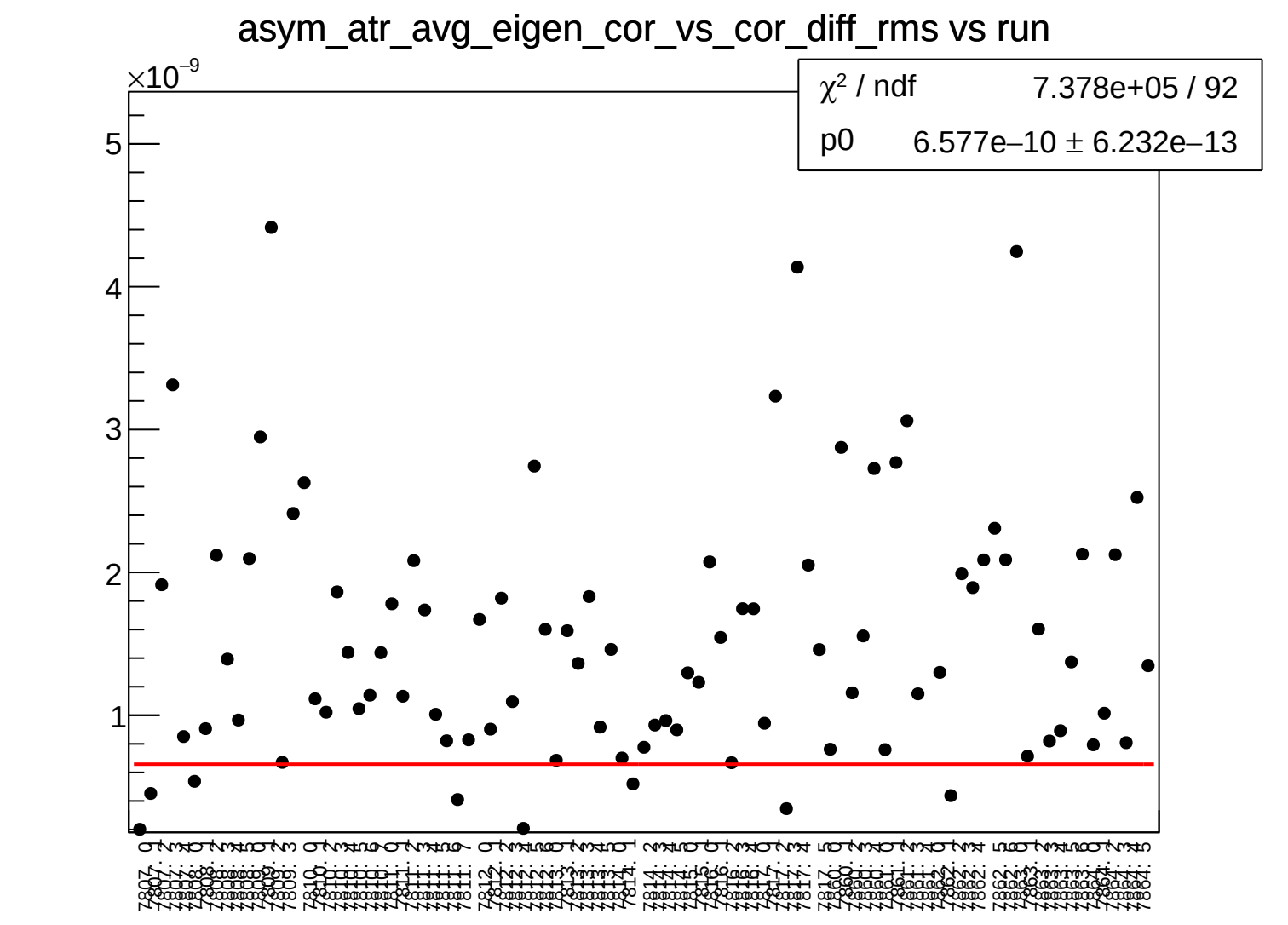

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.57 / 92
p0 0.1041± 0.3251
pull
Entries 93
Mean −83.94
Std Dev 0

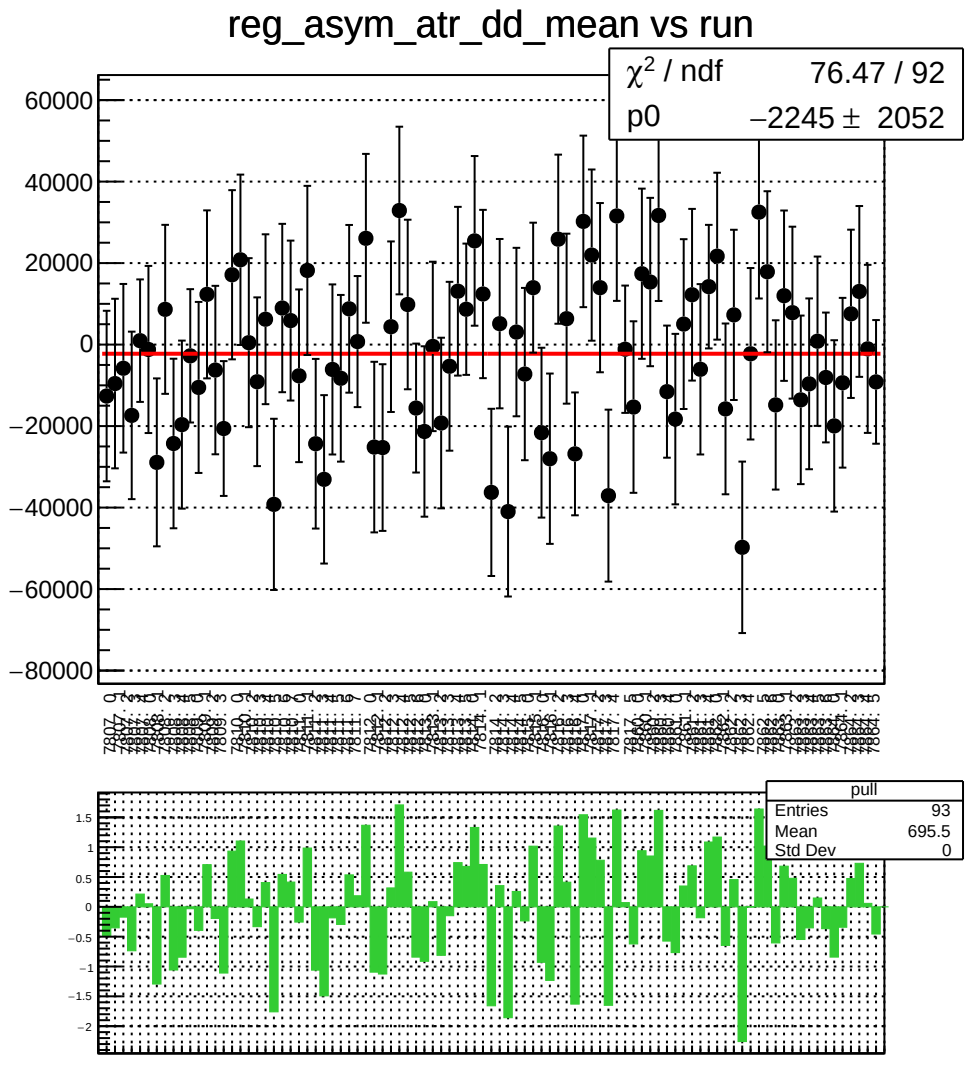

pull1D
Entries 93
Mean −0.01909
Std Dev 0.9421

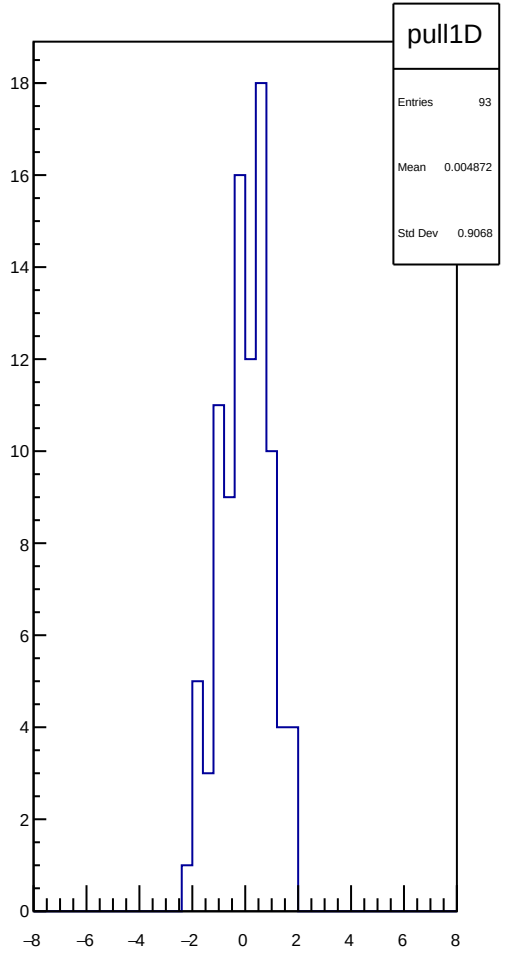

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.999e+04 / 92
p0 310.3 ± 0.2299
450
400
350
300
250

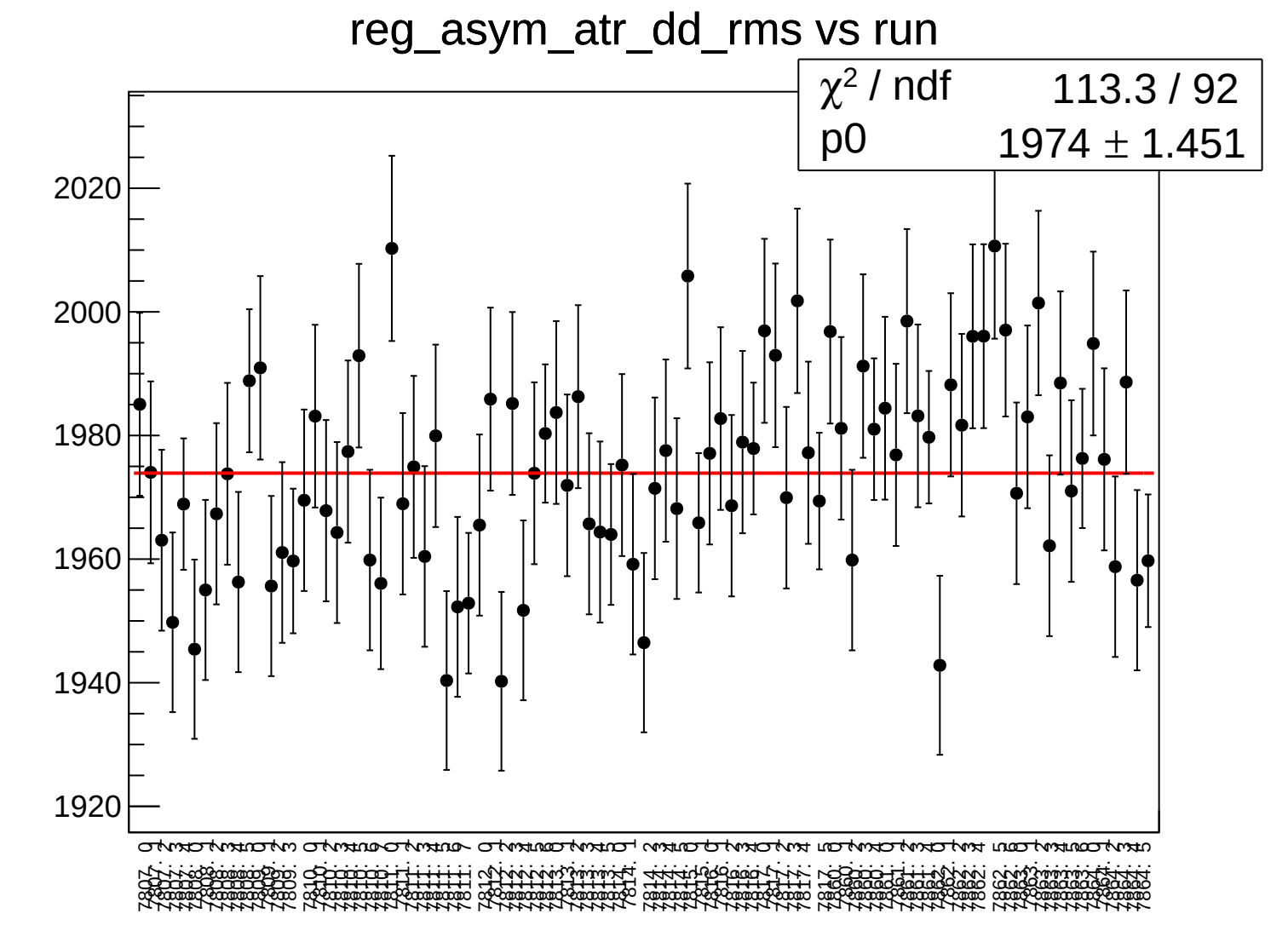

asym_atr_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 88.53 / 92
p0 7.578e−13 ± 8.814e−13
pull
Entries 93
Mean −79.52
Std Dev 0

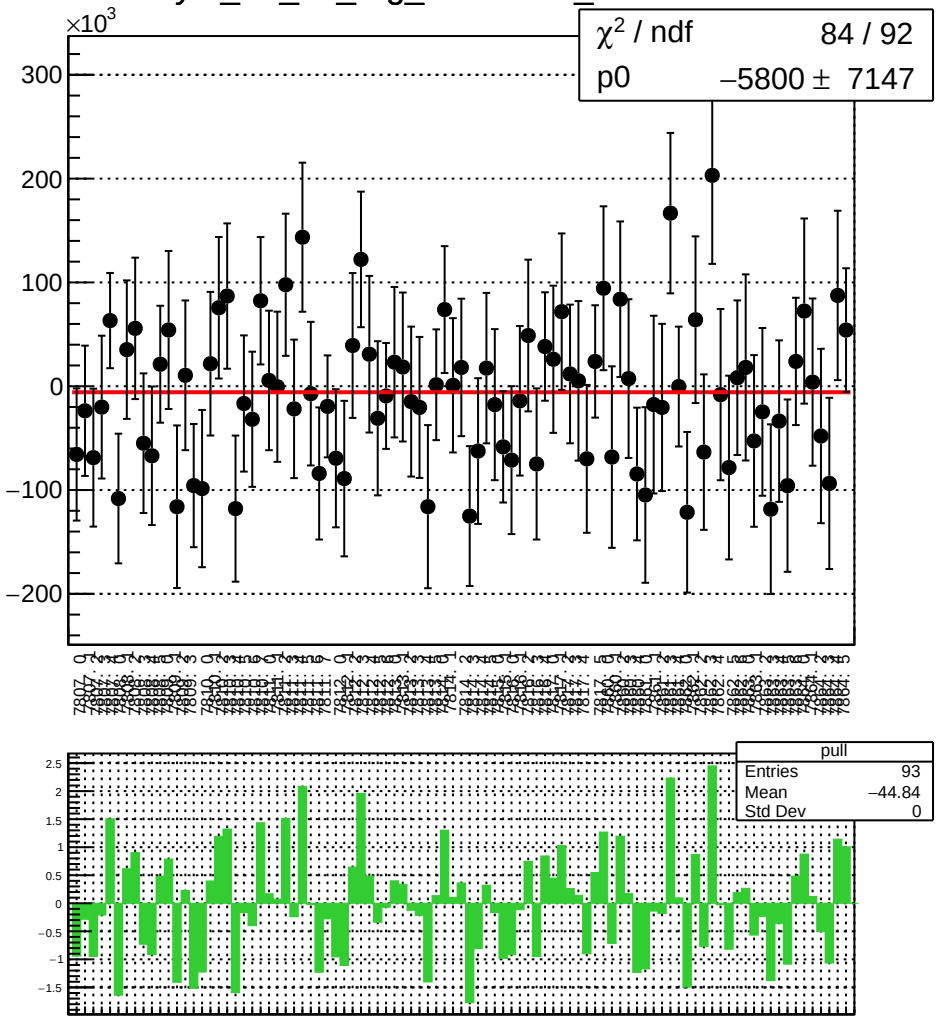

pull1D
Entries 93
Mean 0.02377
Std Dev 0.9754

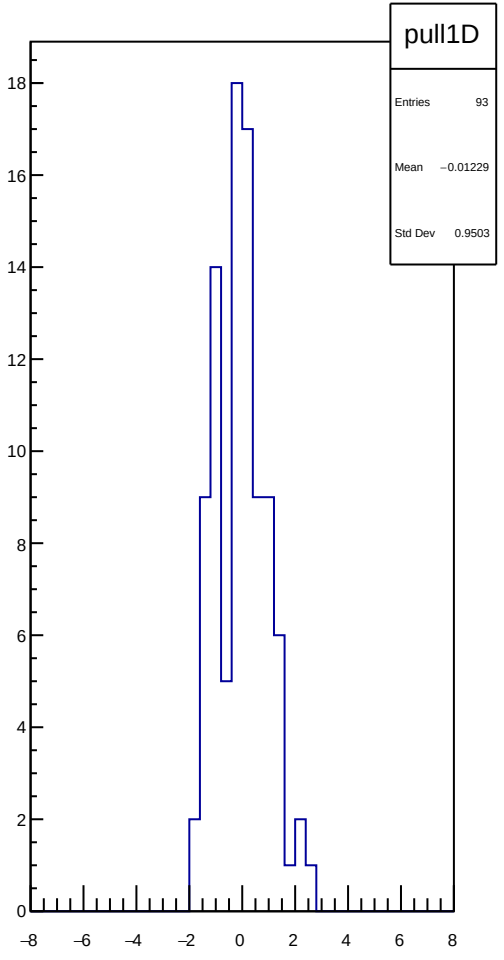

asym_atr_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.378e+05 / 92
p0 6.577e−10 ± 6.232e−13
5
4
3
2
1

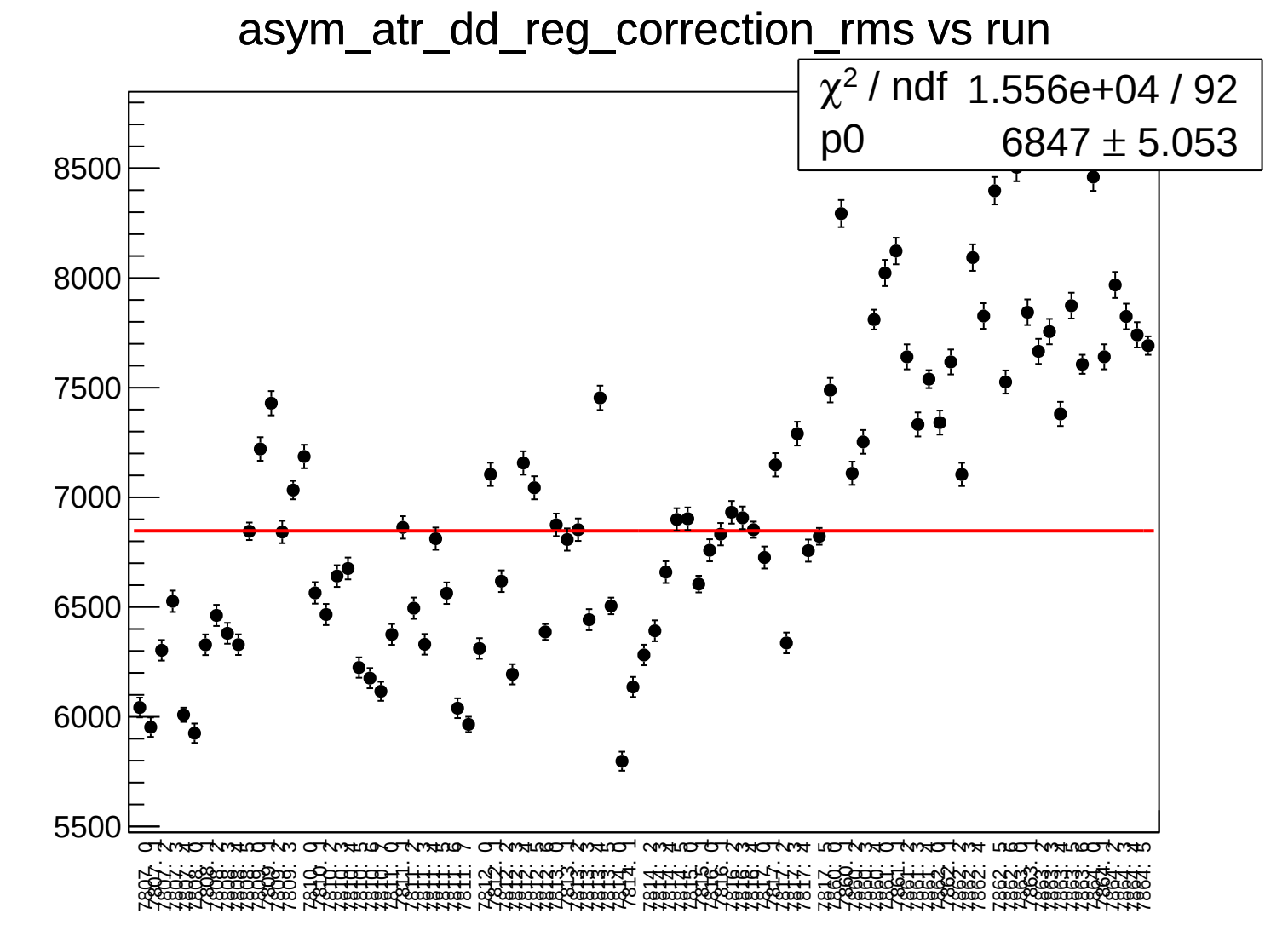

reg_asym_atr_dd_mean vs run
χ² / ndf 76.47 / 92
p0 −2245 ± 2052
pull
Entries 93
Mean 695.5
Std Dev 0

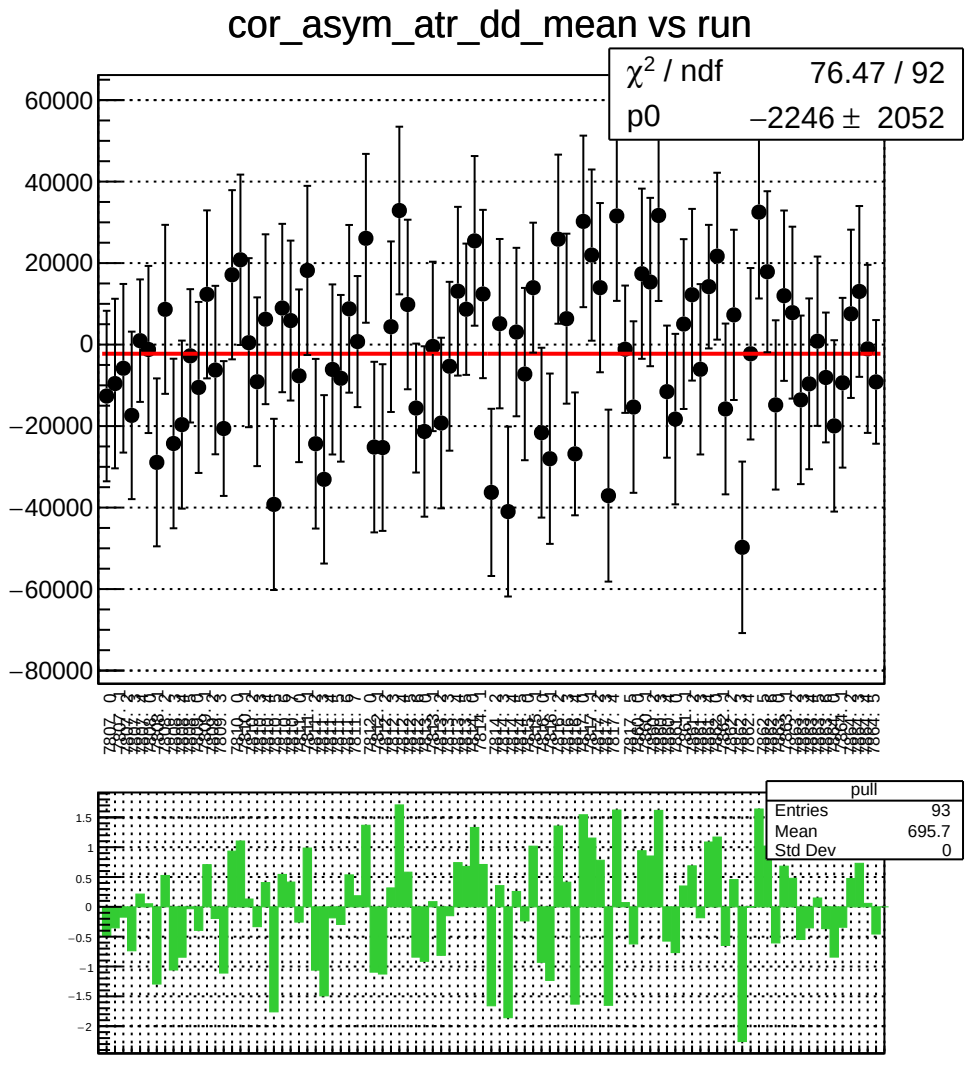

pull1D
Entries 93
Mean 0.004872
Std Dev 0.9068

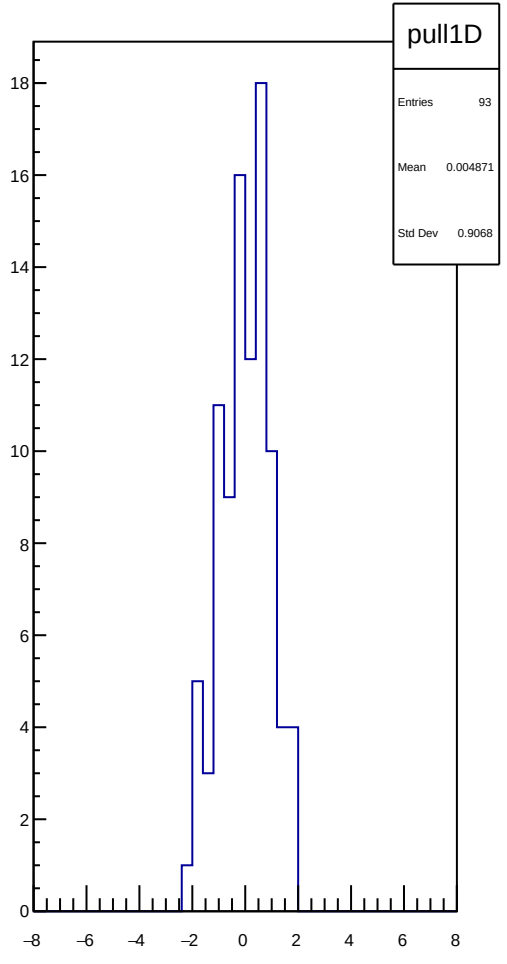

reg_asym_atr_dd_rms vs run
χ² / ndf 113.3 / 92
p0 1974 ± 1.451
2020
2000
1980
1960
1940
1920

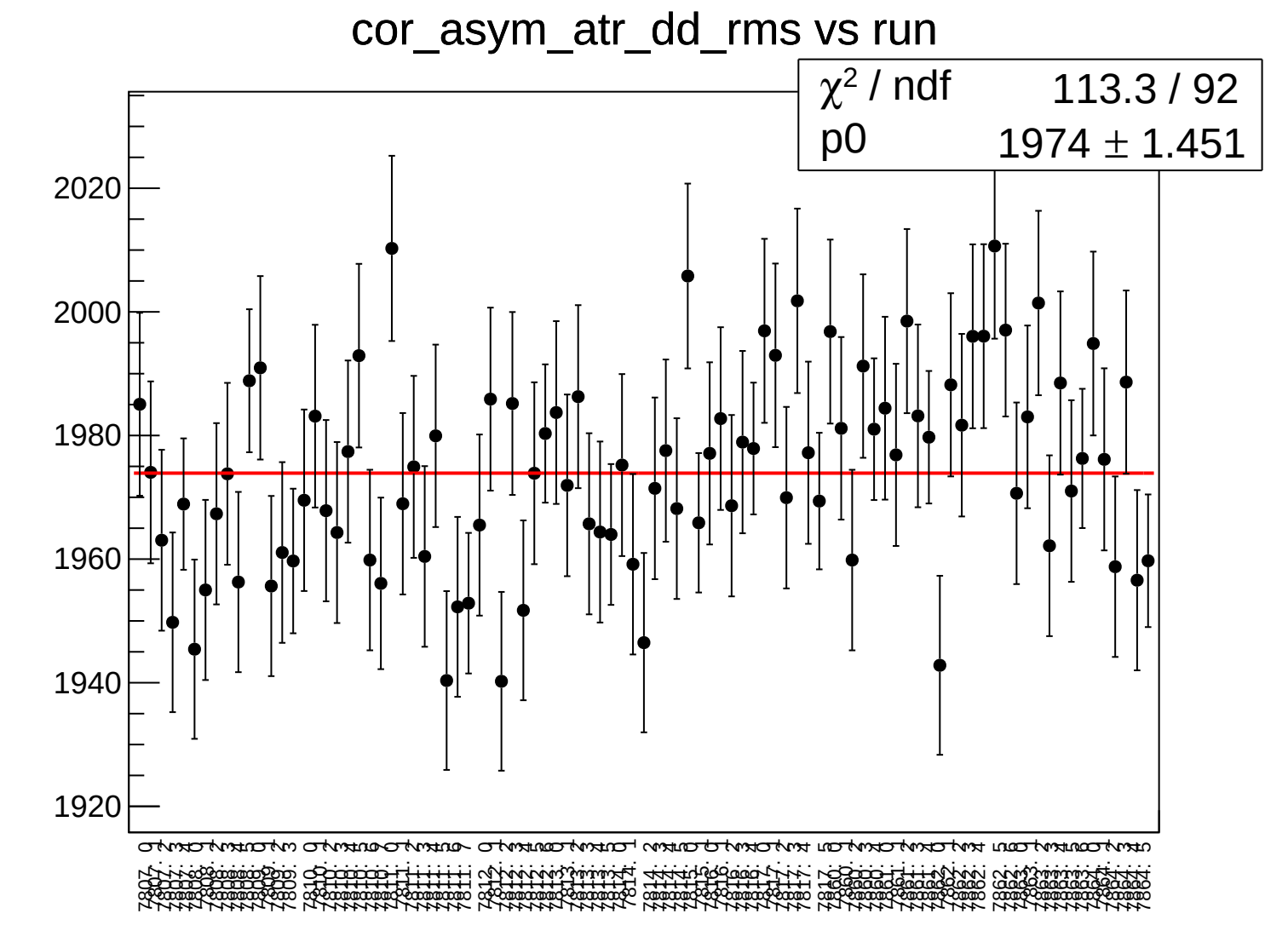

asym_atr_dd_reg_correction_mean vs run
×10^3
χ² / ndf 84 / 92
p0 −5800 ± 7147
pull
Entries 93
Mean −44.84
Std Dev 0

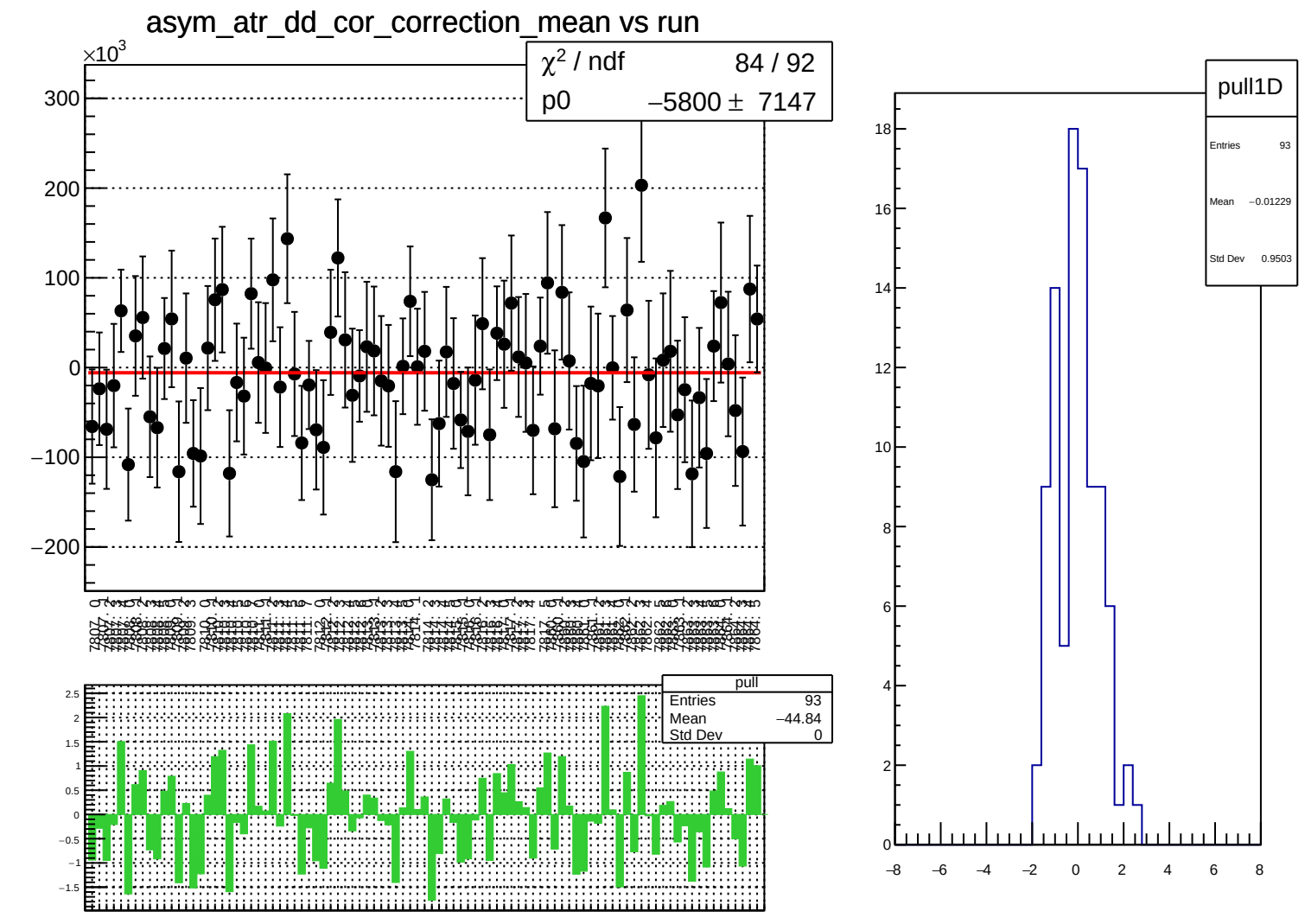

pull1D
Entries 93
Mean −0.01229
Std Dev 0.9503

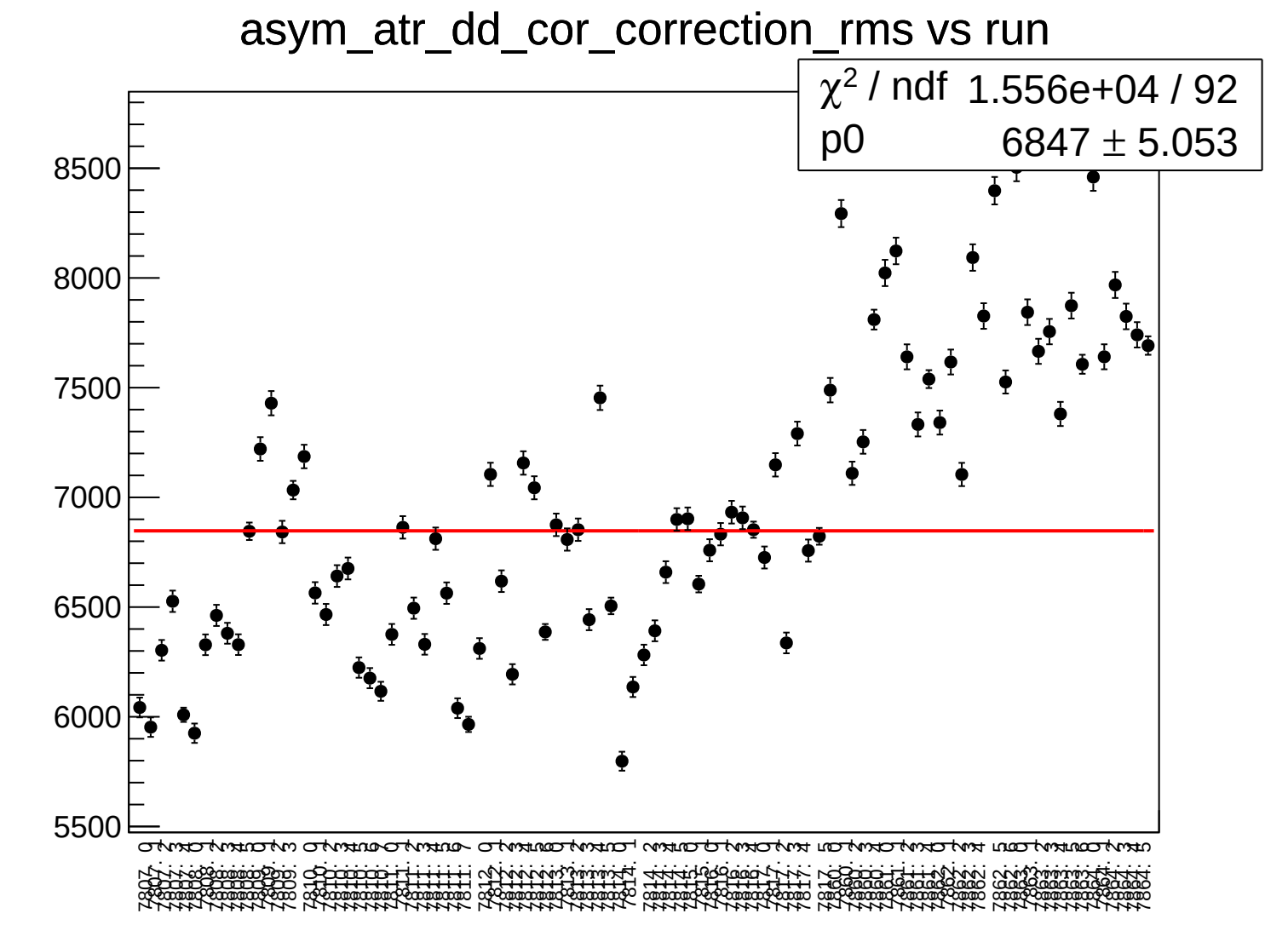

asym_atr_dd_reg_correction_rms vs run
χ² / ndf 1.556e+04 / 92
p0 6847 ± 5.053
8500
8000
7500
7000
6500
6000
5500

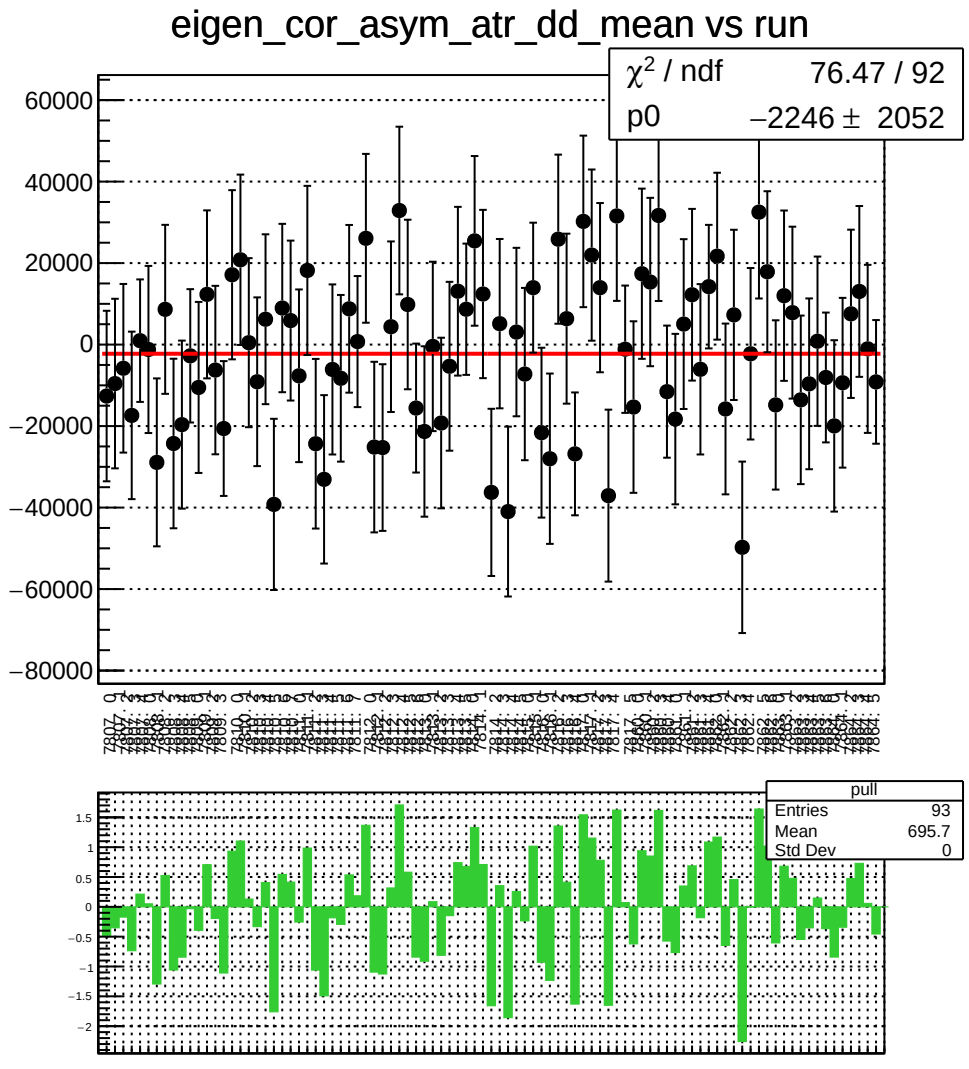

cor_asym_atr_dd_mean vs run
χ² / ndf 76.47 / 92
p0 −2246 ± 2052
pull
Entries 93
Mean 695.7
Std Dev 0

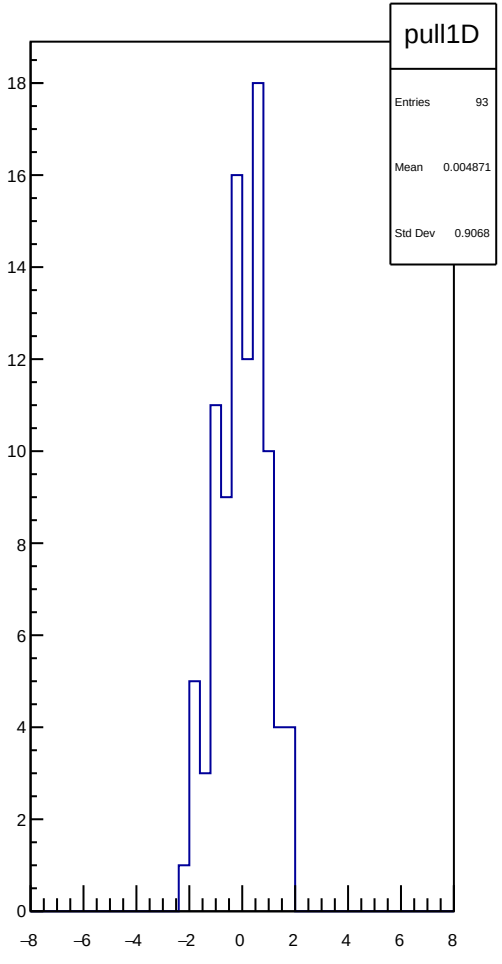

pull1D
Entries 93
Mean 0.004871
Std Dev 0.9068

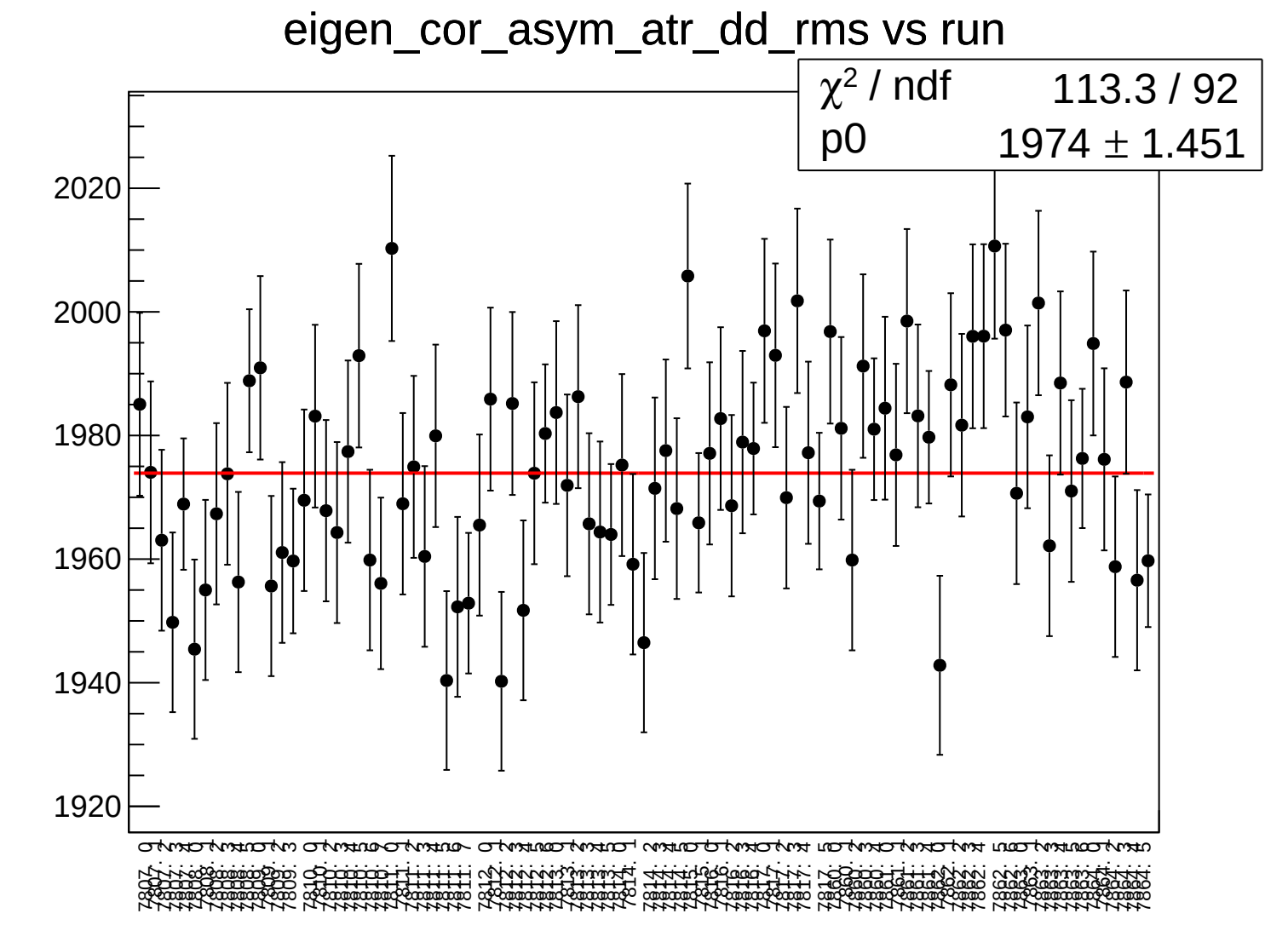

cor_asym_atr_dd_rms vs run
χ^2 / ndf 113.3 / 92
p0 1974 ± 1.451
2020
2000
1980
1960
1940
1920

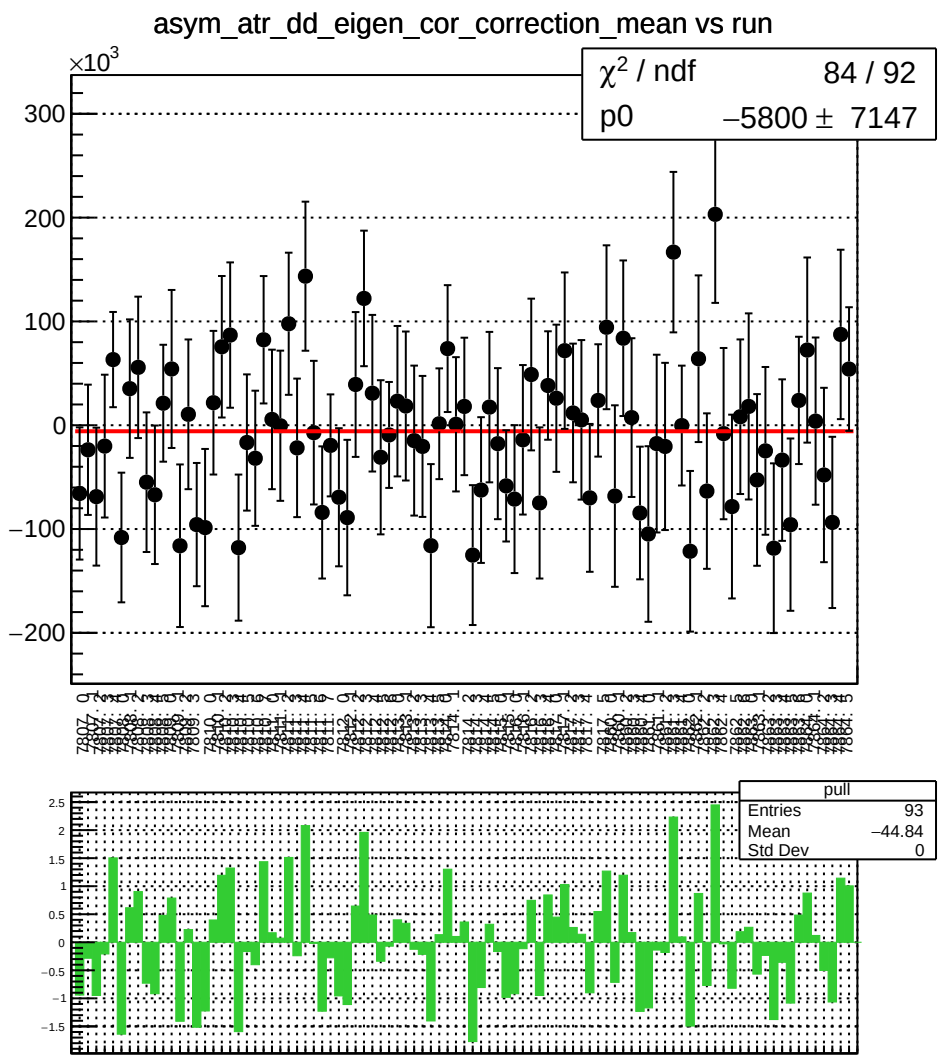

asym_atr_dd_cor_correction_mean vs run
χ² / ndf 84 / 92
p0 −5800 ± 7147
×10³
300
200
100
0
−100
−200
pull
Entries 93
Mean −44.84
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 93
Mean −0.01229
Std Dev 0.9503
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

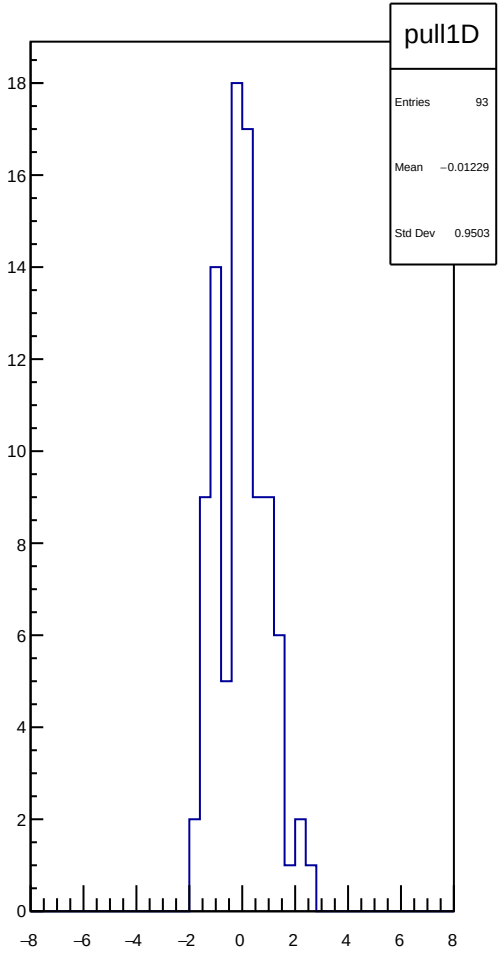

asym_atr_dd_cor_correction_rms vs run
χ² / ndf 1.556e+04 / 92
p0 6847 ± 5.053
8500
8000
7500
7000
6500
6000
5500

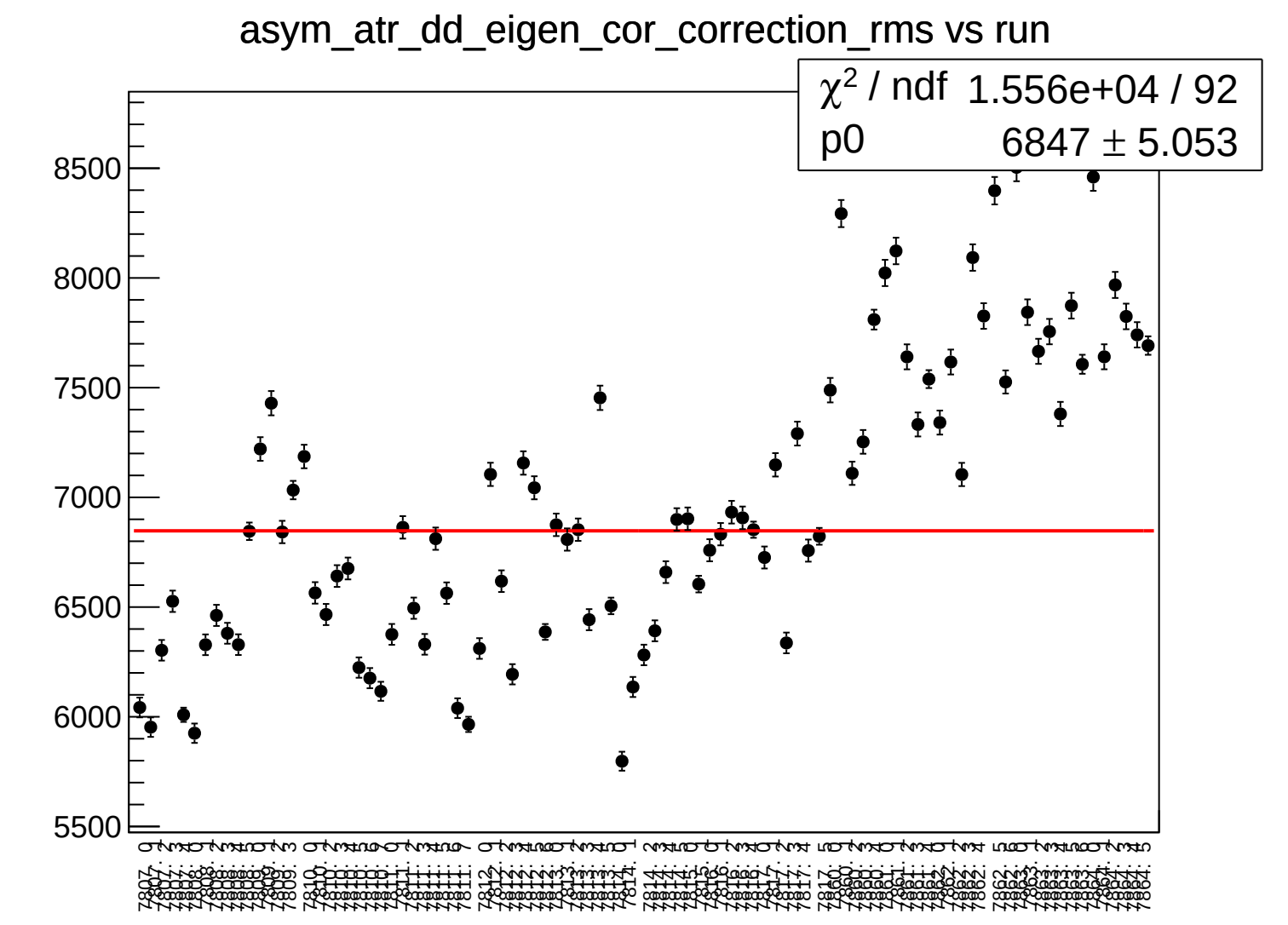

eigen_cor_asym_atr_dd_mean vs run
χ² / ndf 76.47 / 92
p0 −2246 ± 2052
pull
Entries 93
Mean 695.7
Std Dev 0

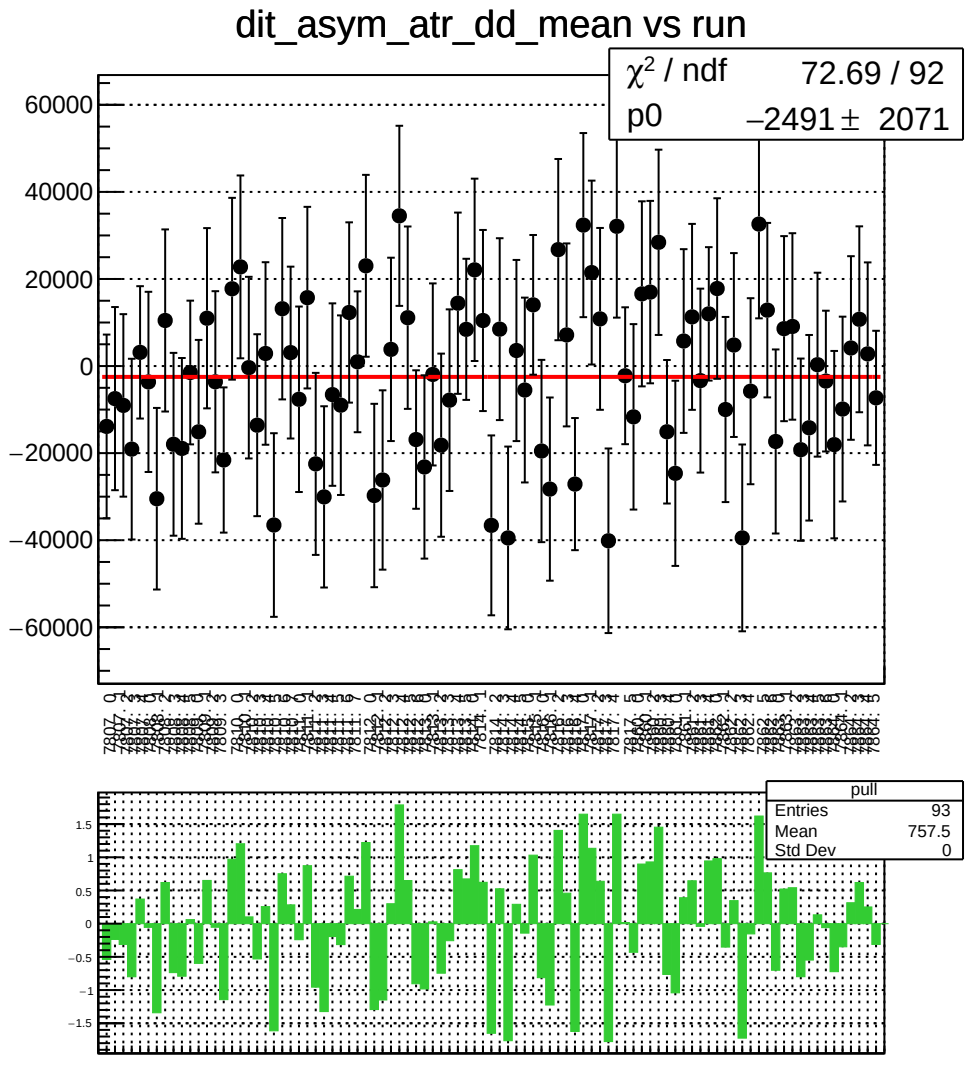

pull1D
Entries 93
Mean 0.004871
Std Dev 0.9068

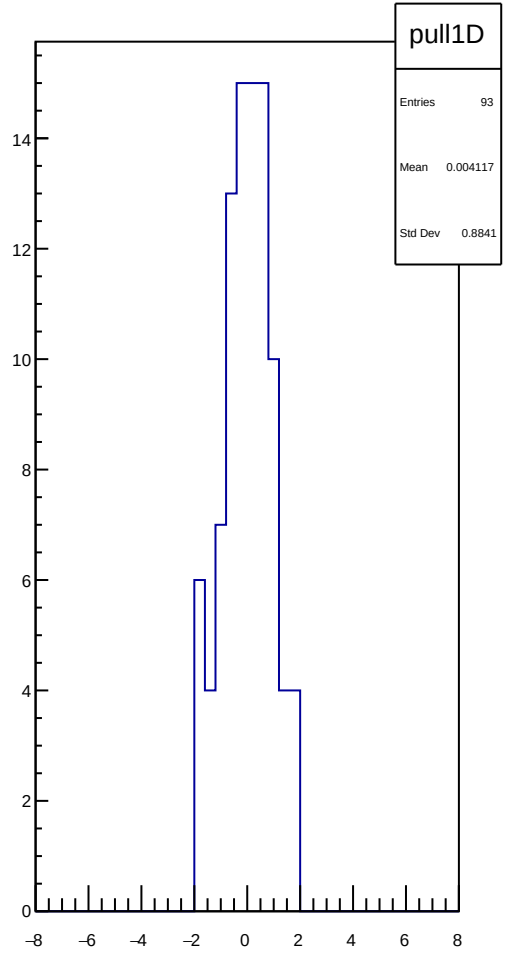

eigen_cor_asym_atr_dd_rms vs run
χ² / ndf 113.3 / 92
p0 1974 ± 1.451
2020
2000
1980
1960
1940
1920

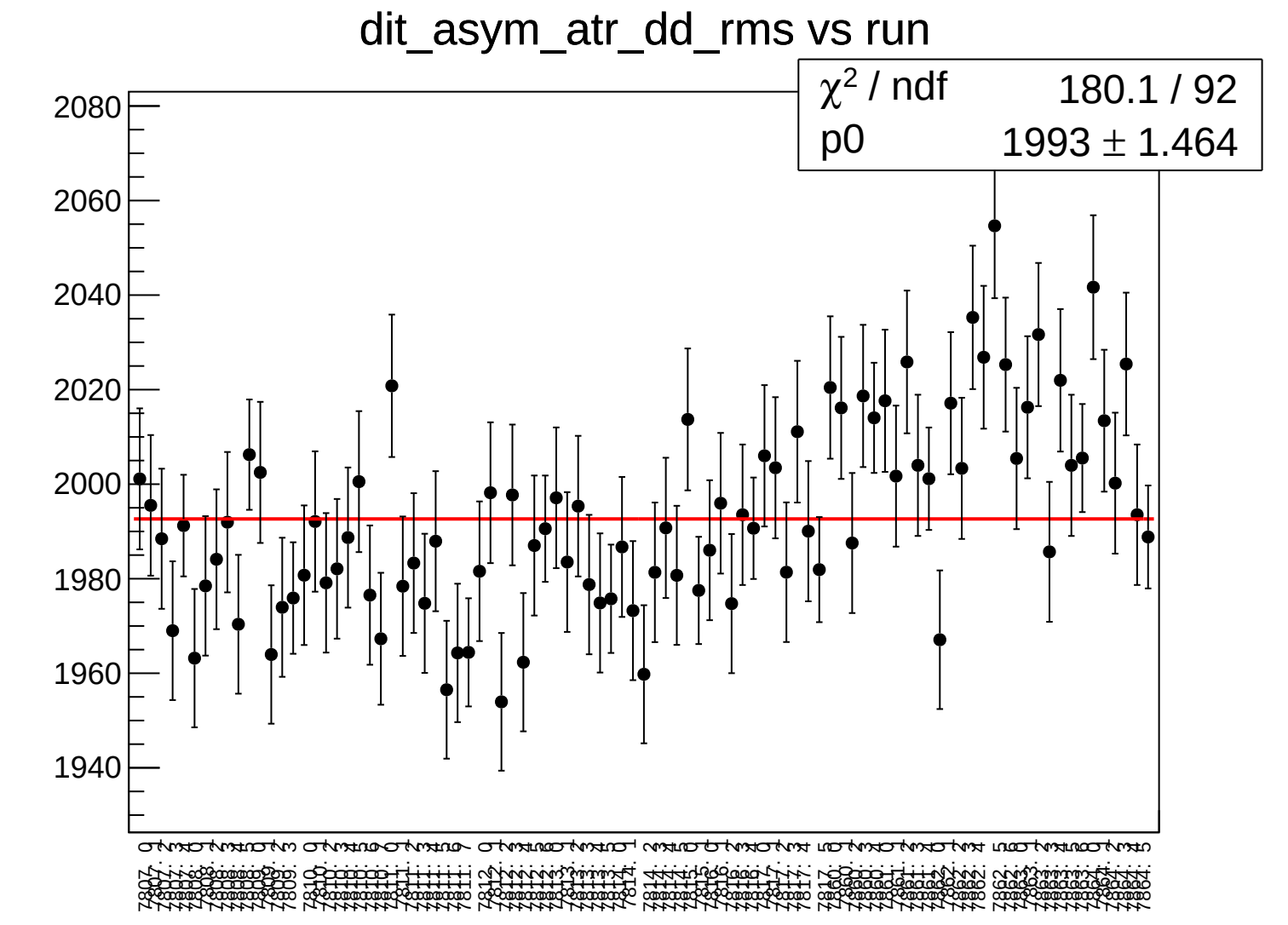

asym_atr_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 84 / 92
p0 −5800 ± 7147
pull
Entries 93
Mean −44.84
Std Dev 0

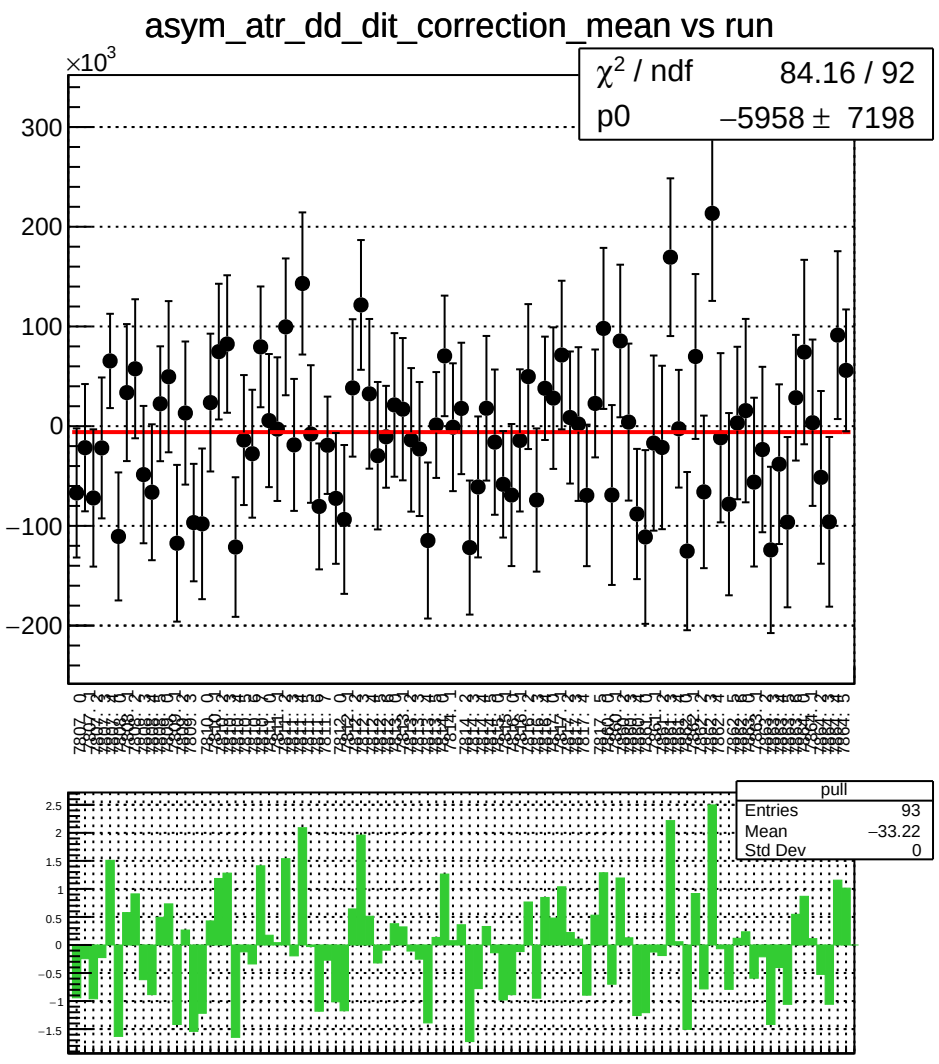

pull1D
Entries 93
Mean −0.01229
Std Dev 0.9503

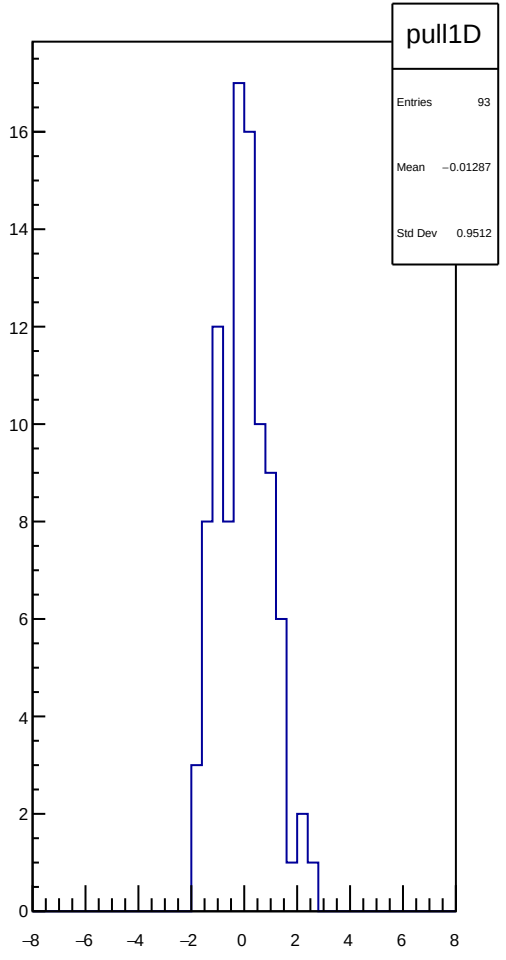

asym_atr_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.556e+04 / 92
p0 6847 ± 5.053
8500
8000
7500
7000
6500
6000
5500

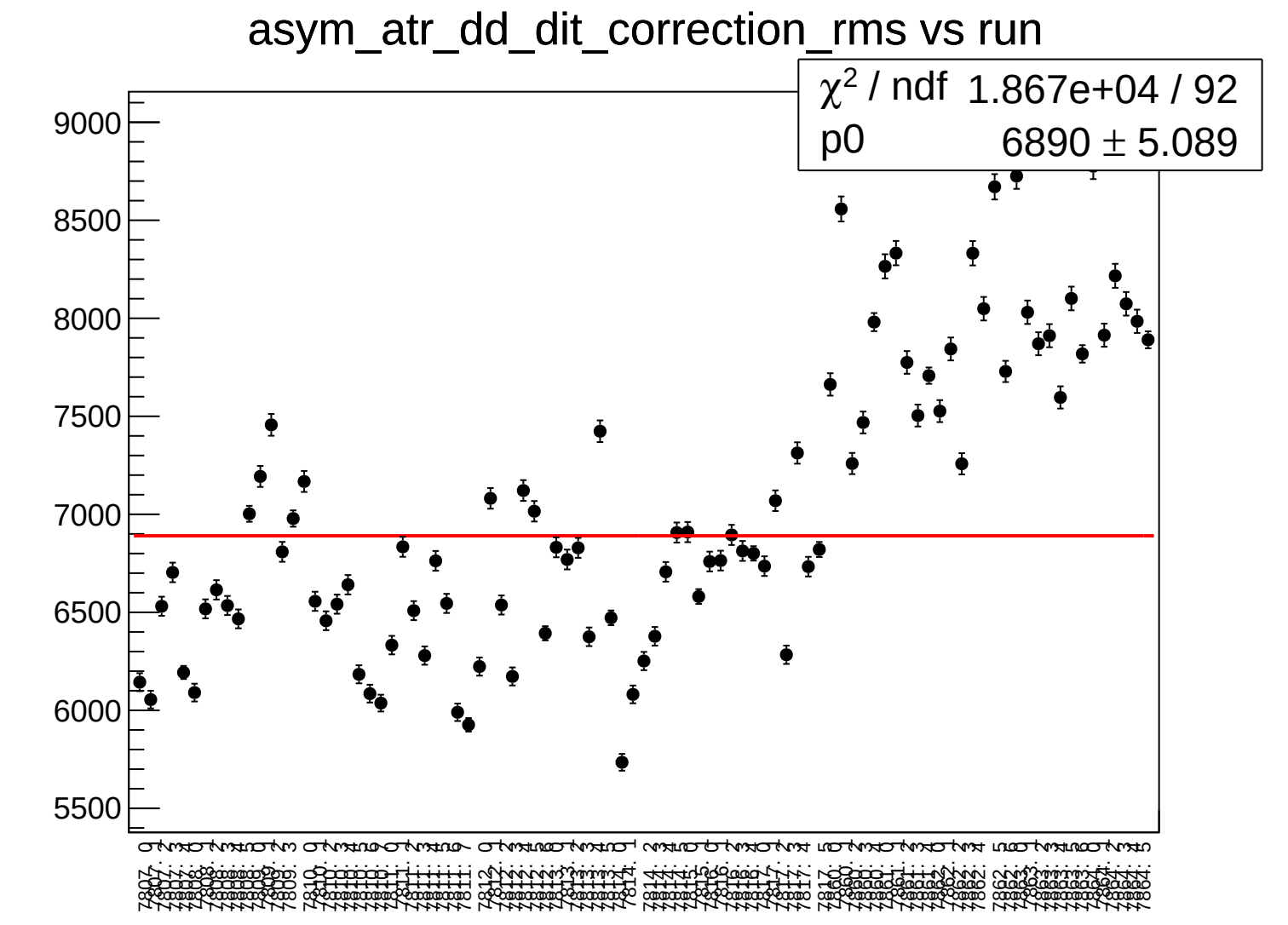

dit_asym_atr_dd_mean vs run
χ² / ndf 72.69 / 92
p0 −2491 ± 2071
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 757.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

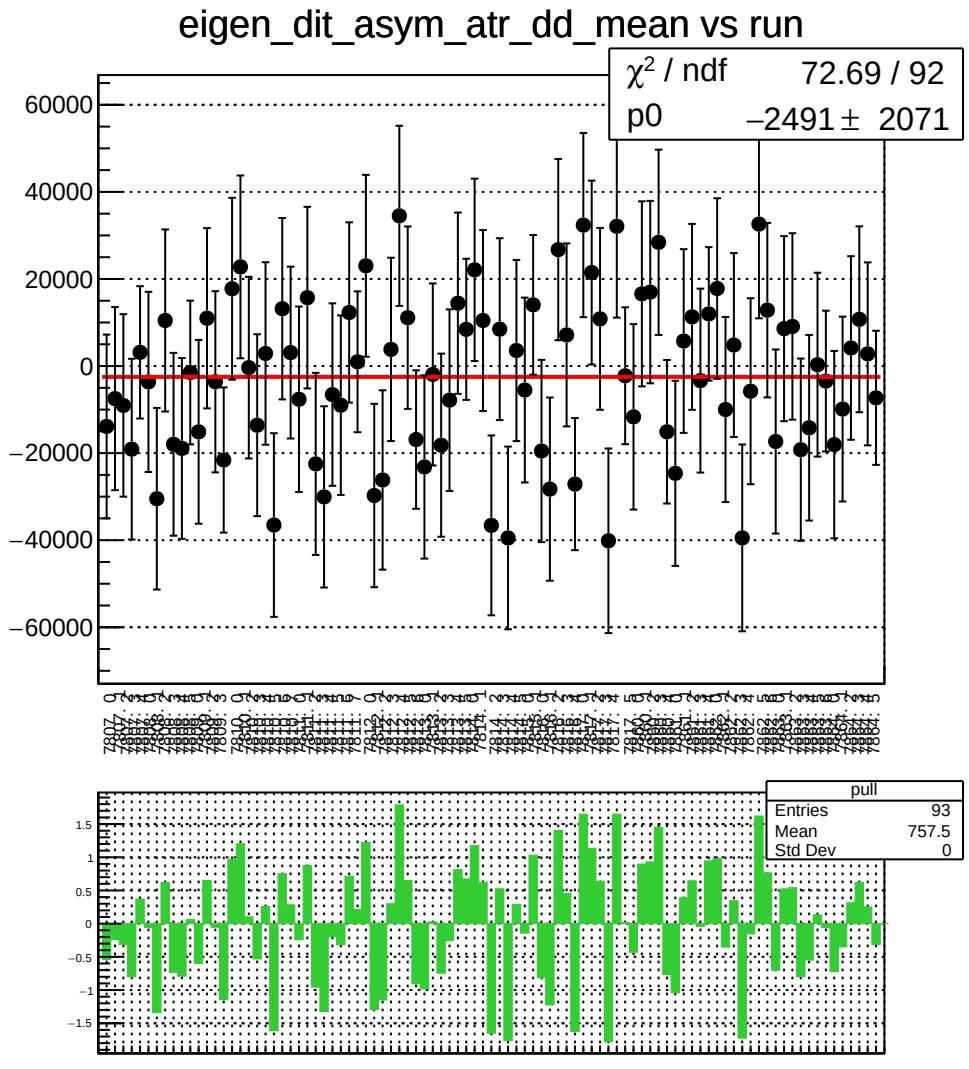

pull1D
Entries 93
Mean 0.004117
Std Dev 0.8841
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

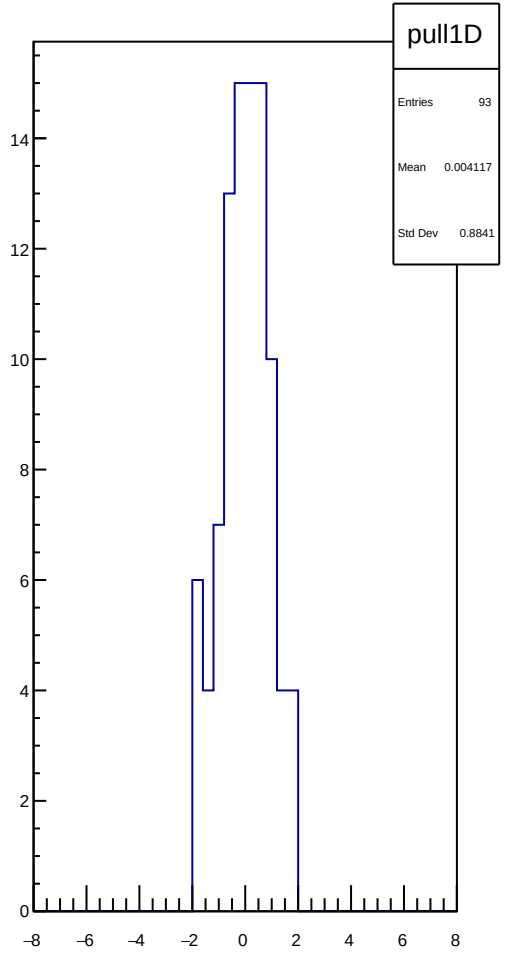

dit_asym_atr_dd_rms vs run
χ² / ndf 180.1 / 92
p0 1993 ± 1.464
2080
2060
2040
2020
2000
1980
1960
1940

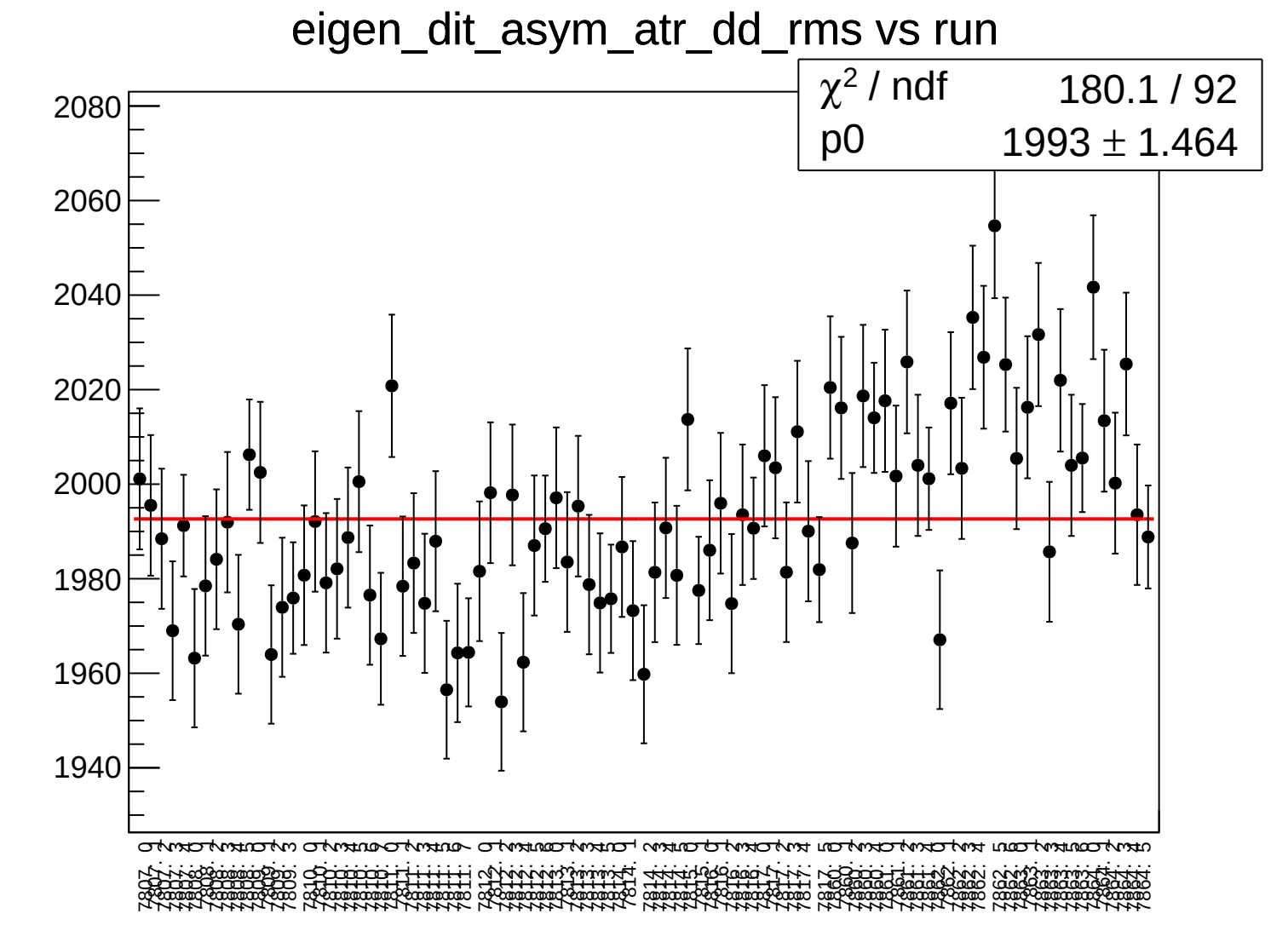

asym_atr_dd_dit_correction_mean vs run
×10^3
χ² / ndf 84.16 / 92
p0 −5958 ± 7198
300
200
100
0
−100
−200
pull
Entries 93
Mean −33.22
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

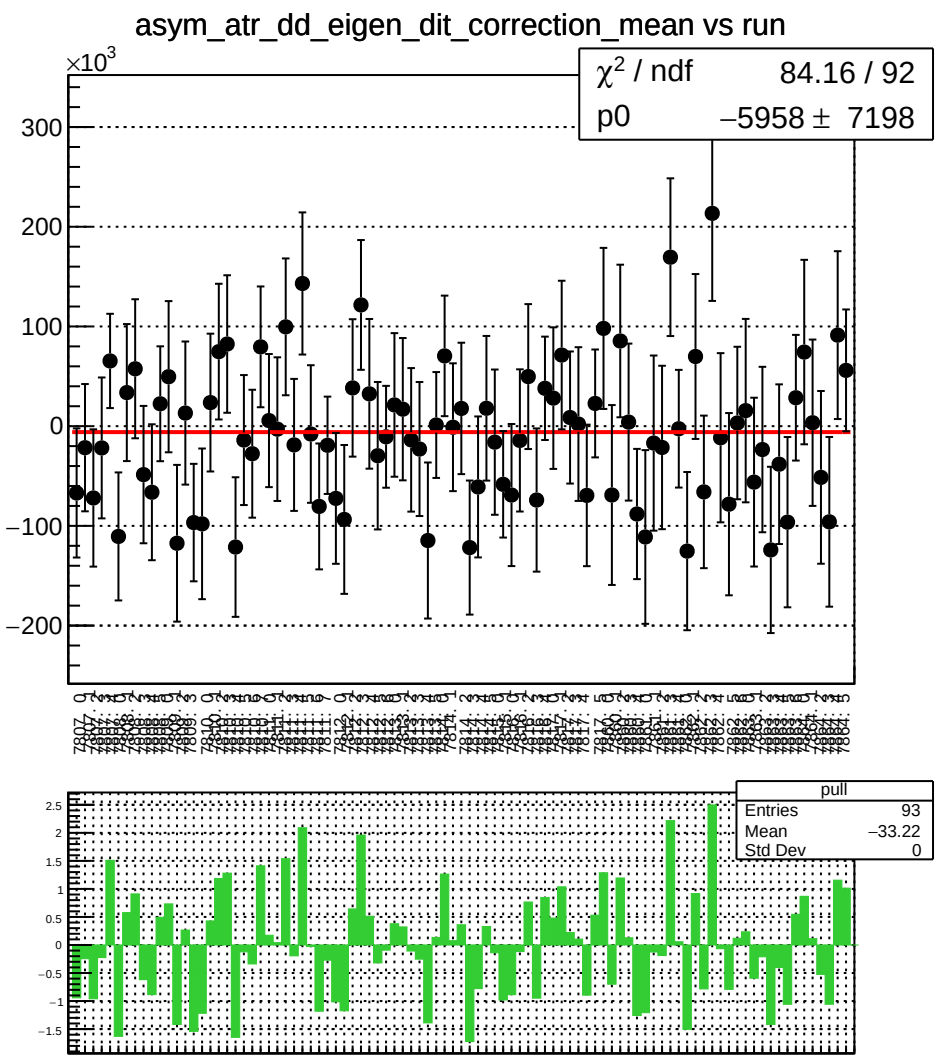

pull1D
Entries 93
Mean −0.01287
Std Dev 0.9512
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

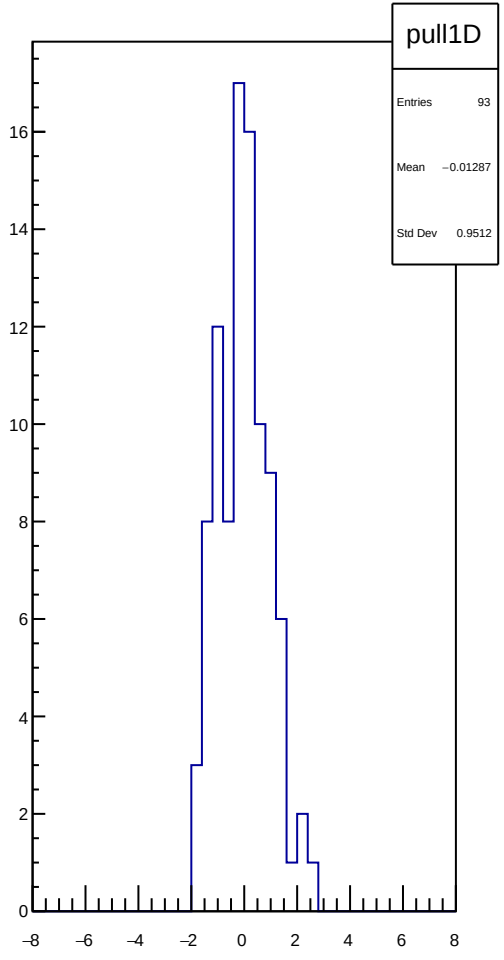

asym_atr_dd_dit_correction_rms vs run
χ^2 / ndf 1.867e+04 / 92
p0 6890 ± 5.089
9000
8500
8000
7500
7000
6500
6000
5500

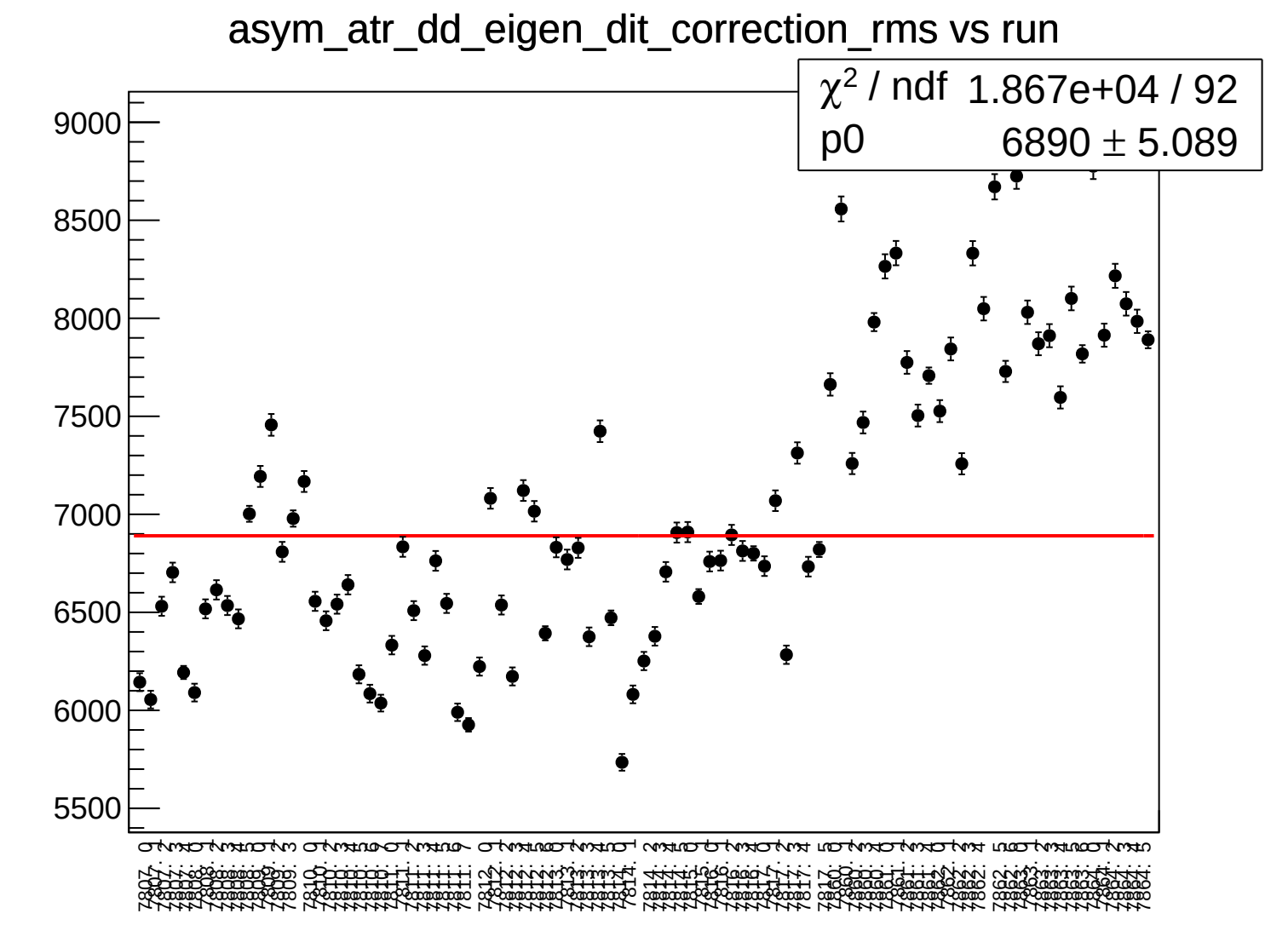

eigen_dit_asym_atr_dd_mean vs run
χ² / ndf 72.69 / 92
p0 −2491 ± 2071
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 757.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

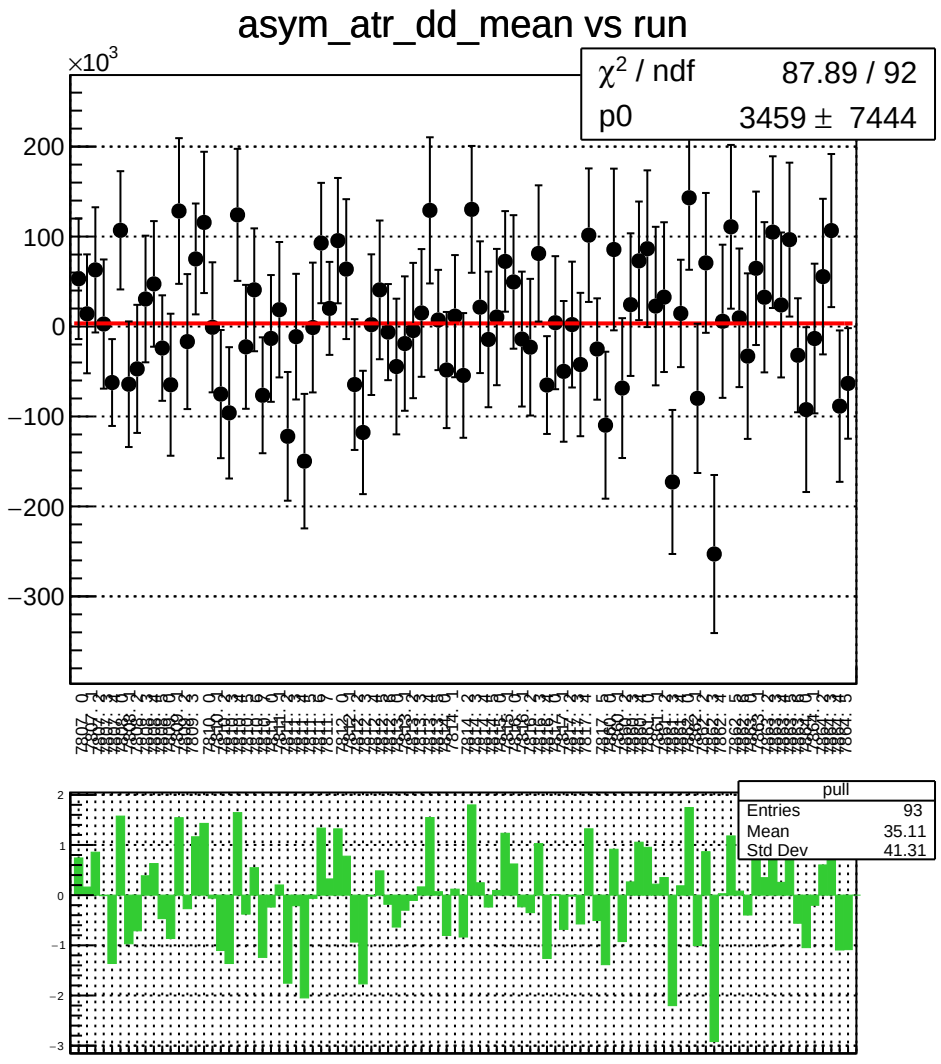

pull1D
Entries 93
Mean 0.004117
Std Dev 0.8841
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

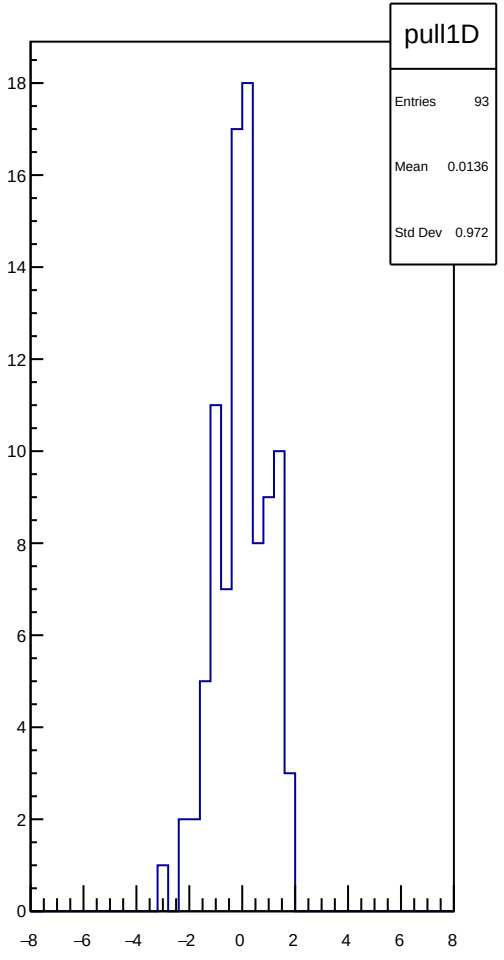

eigen_dit_asym_atr_dd_rms vs run
χ² / ndf 180.1 / 92
p0 1993 ± 1.464
2080
2060
2040
2020
2000
1980
1960
1940

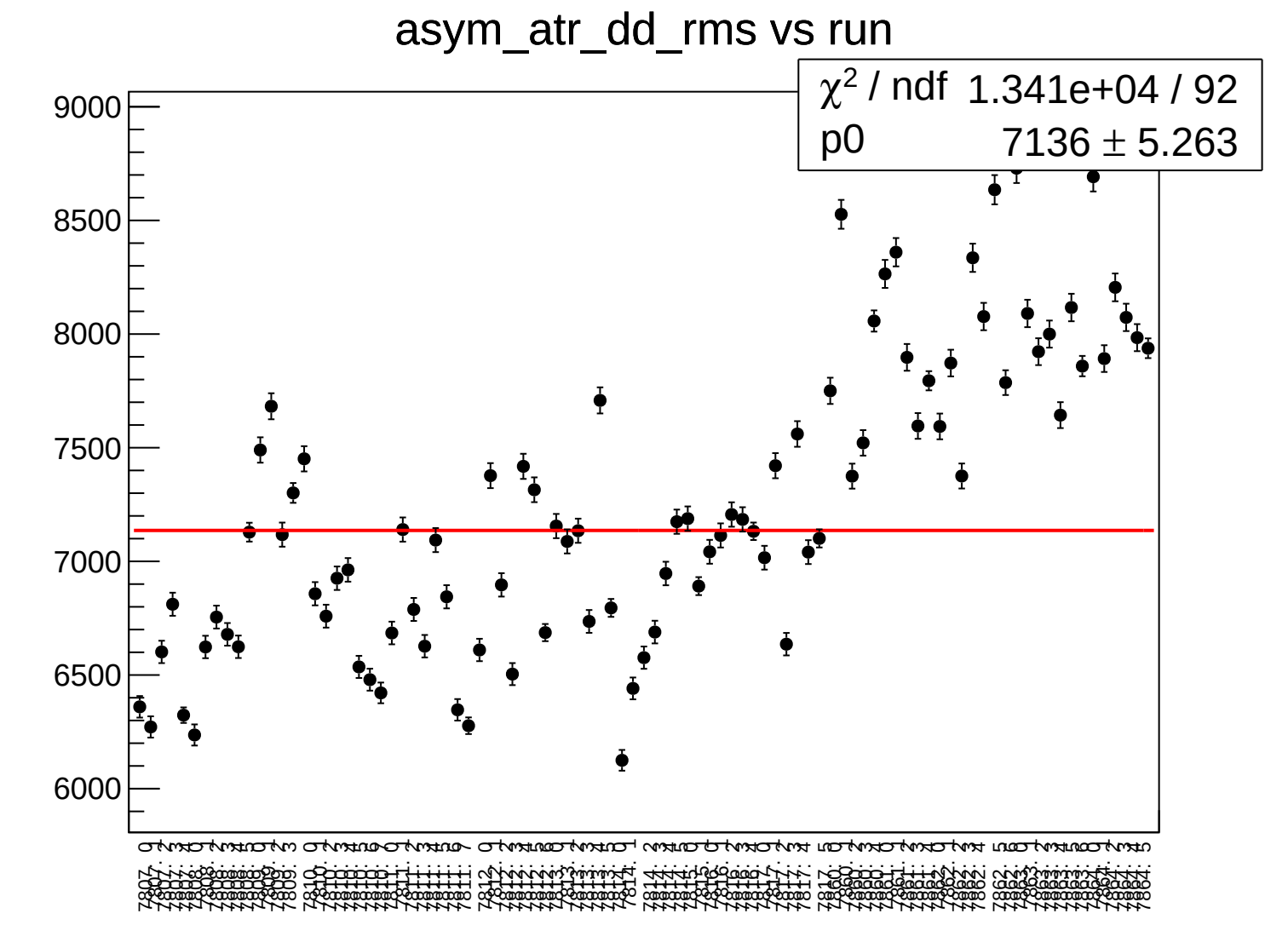

asym_atr_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 84.16 / 92
p0 −5958 ± 7198
300
200
100
0
−100
−200
pull
Entries 93
Mean −33.22
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

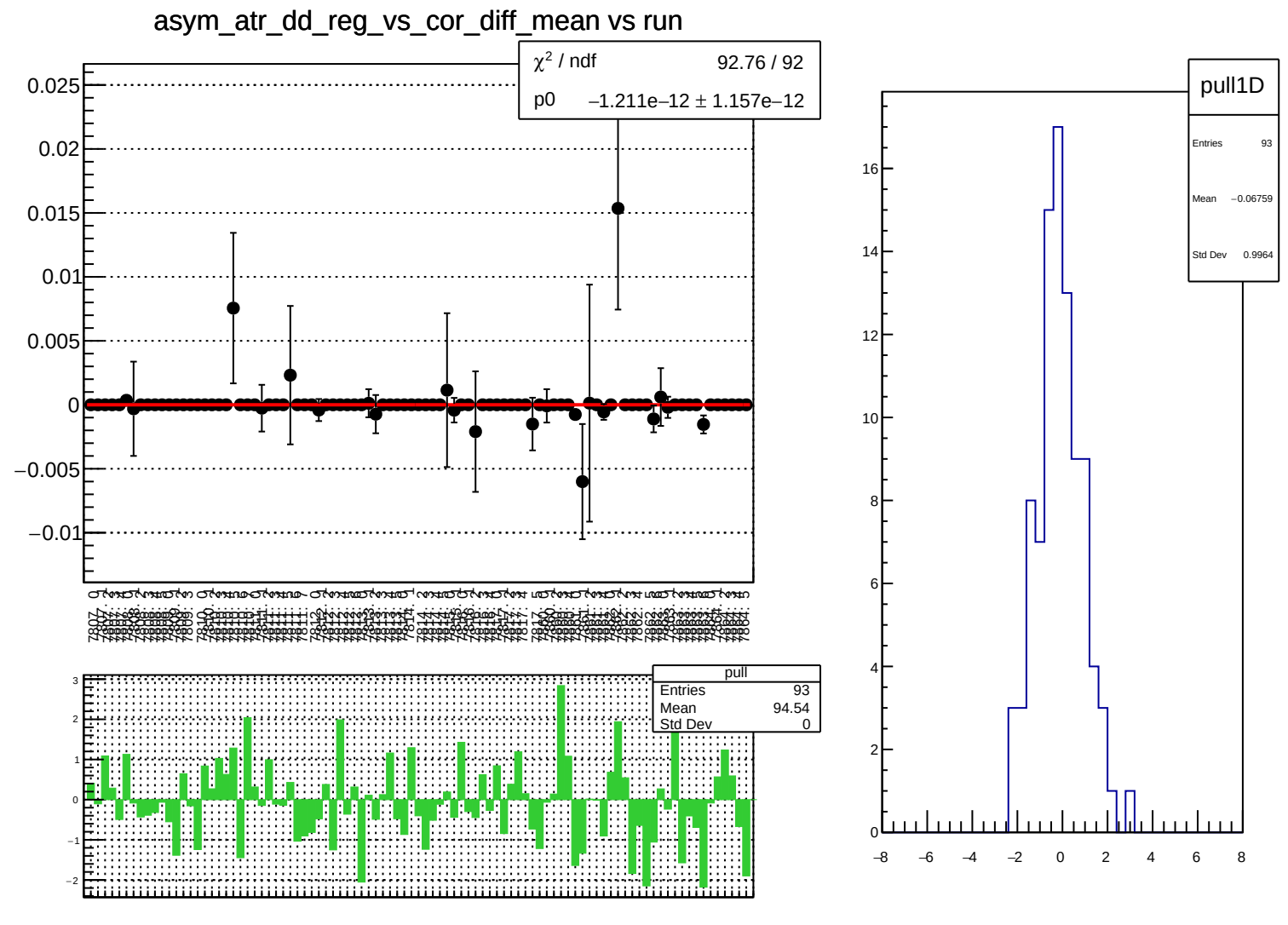

pull1D
Entries 93
Mean −0.01287
Std Dev 0.9512
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

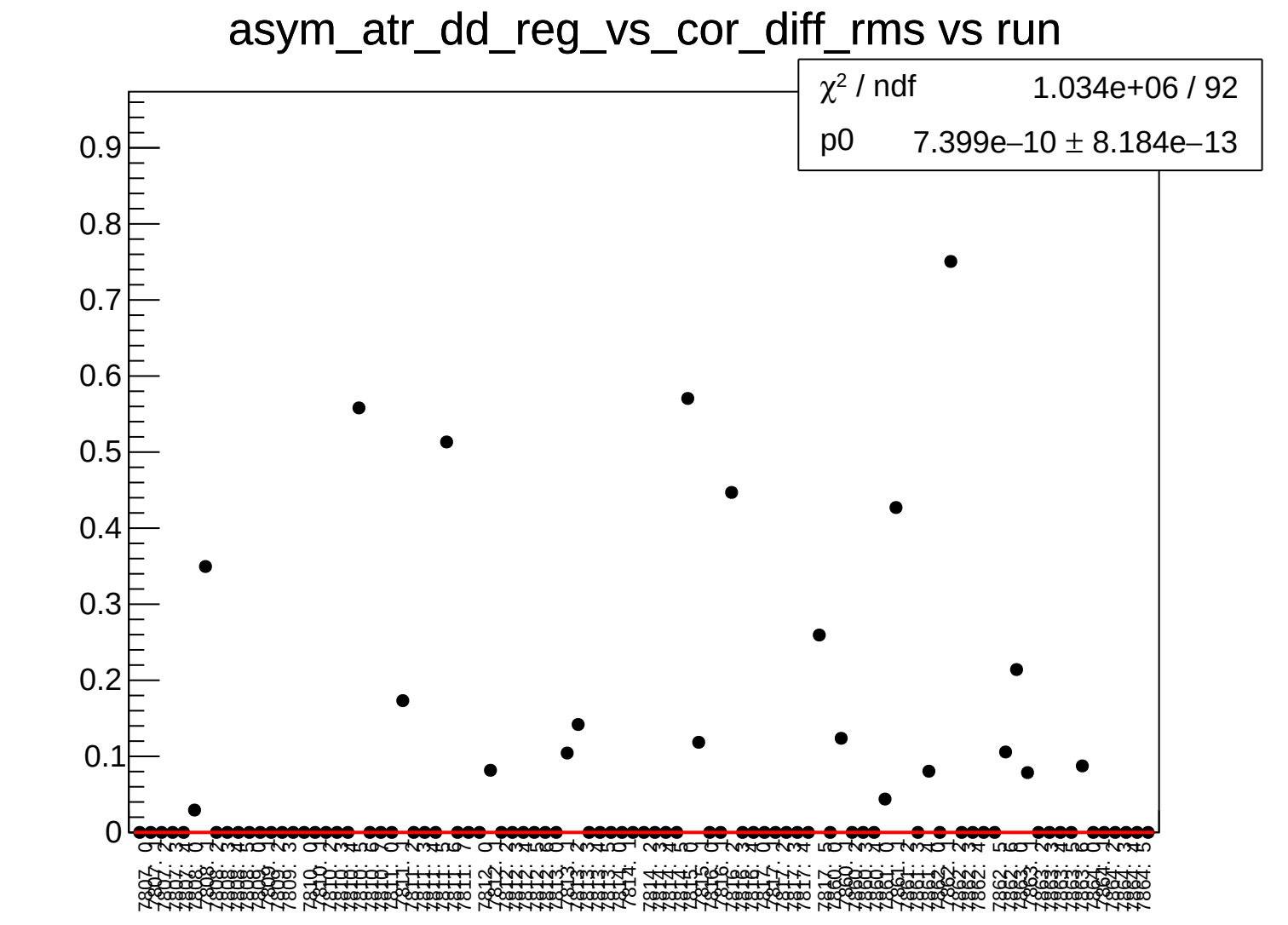

asym_atr_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 1.867e+04 / 92
p0 6890 ± 5.089
9000
8500
8000
7500
7000
6500
6000
5500

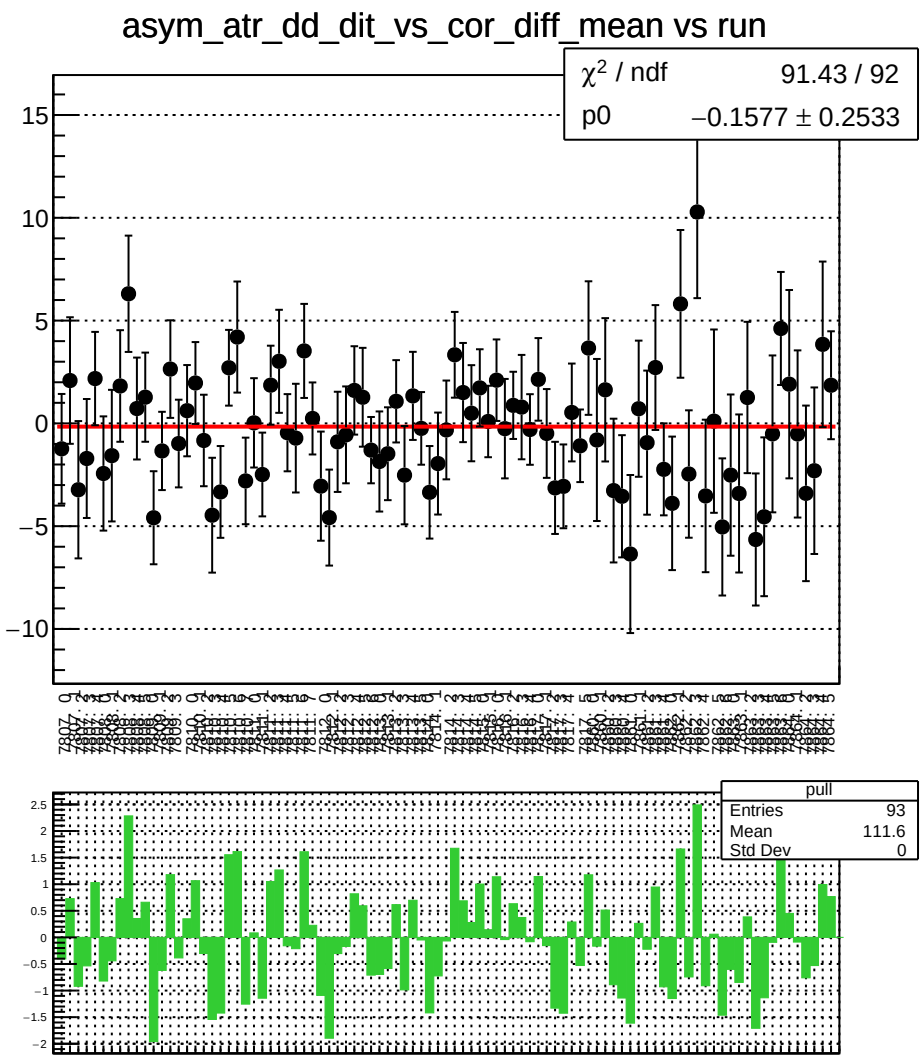

asym_atr_dd_mean vs run
×10^3
χ² / ndf 87.89 / 92
p0 3459 ± 7444
200
100
0
−100
−200
−300
pull
Entries 93
Mean 35.11
Std Dev 41.31
2
1
0
−1
−2
−3

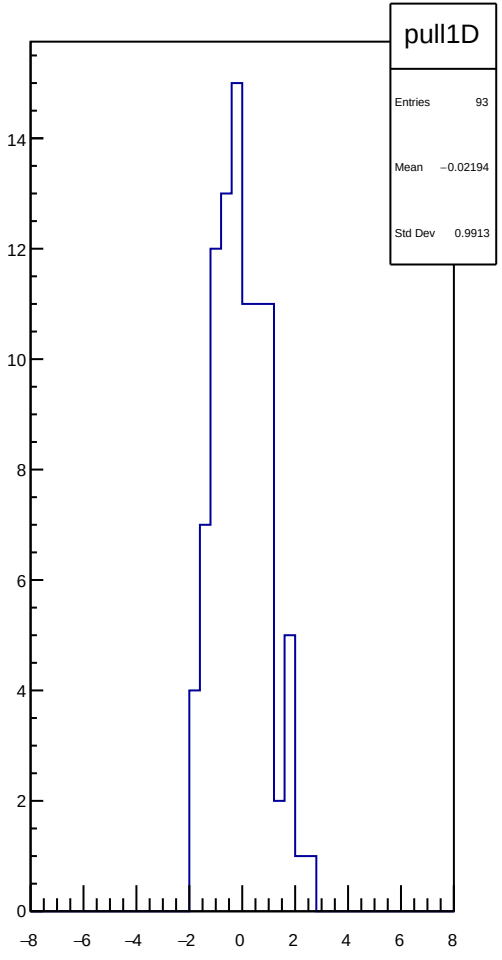

pull1D
Entries 93
Mean 0.0136
Std Dev 0.972
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

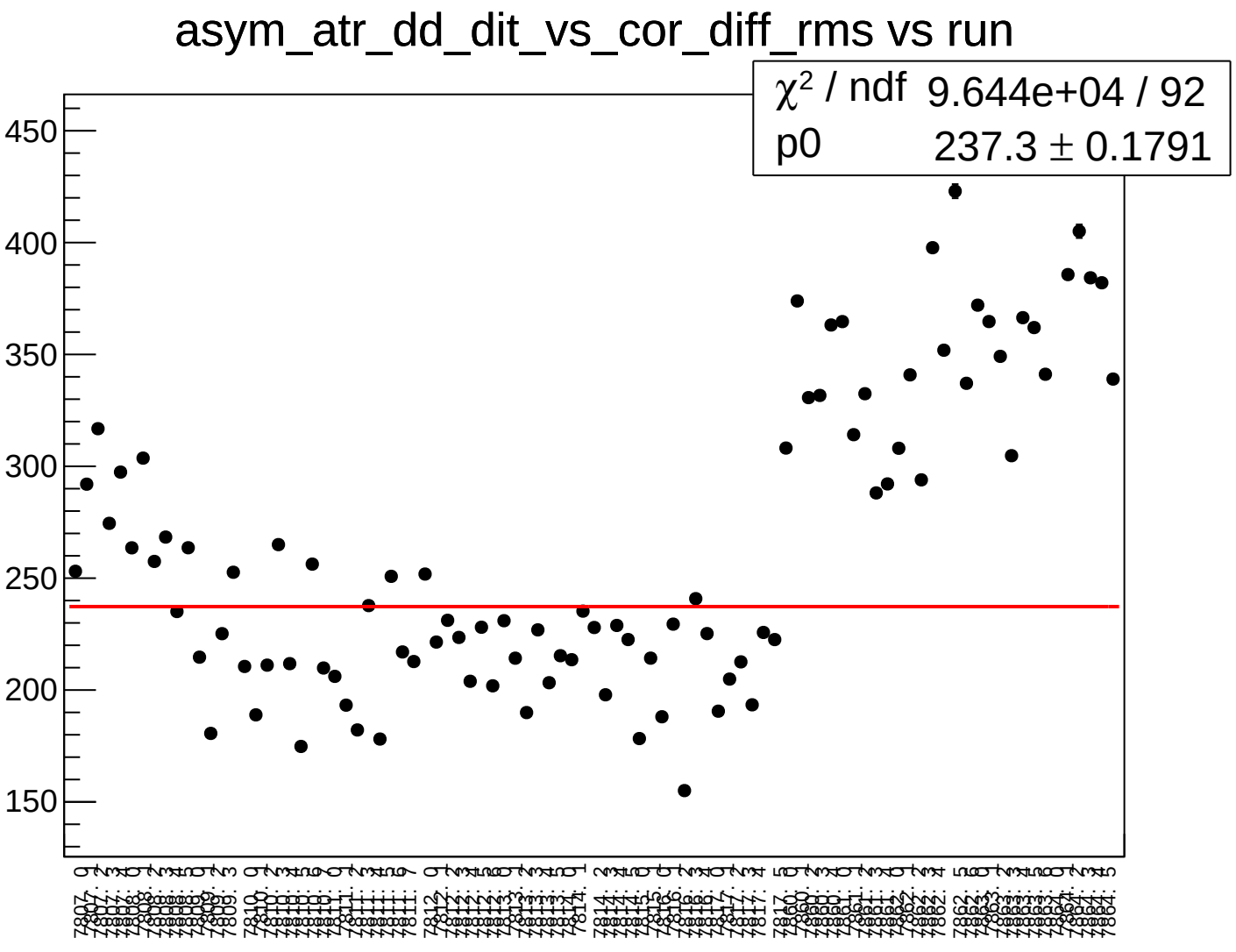

asym_atr_dd_rms vs run
χ^2 / ndf 1.341e+04 / 92
p0 7136 ± 5.263
9000
8500
8000
7500
7000
6500
6000

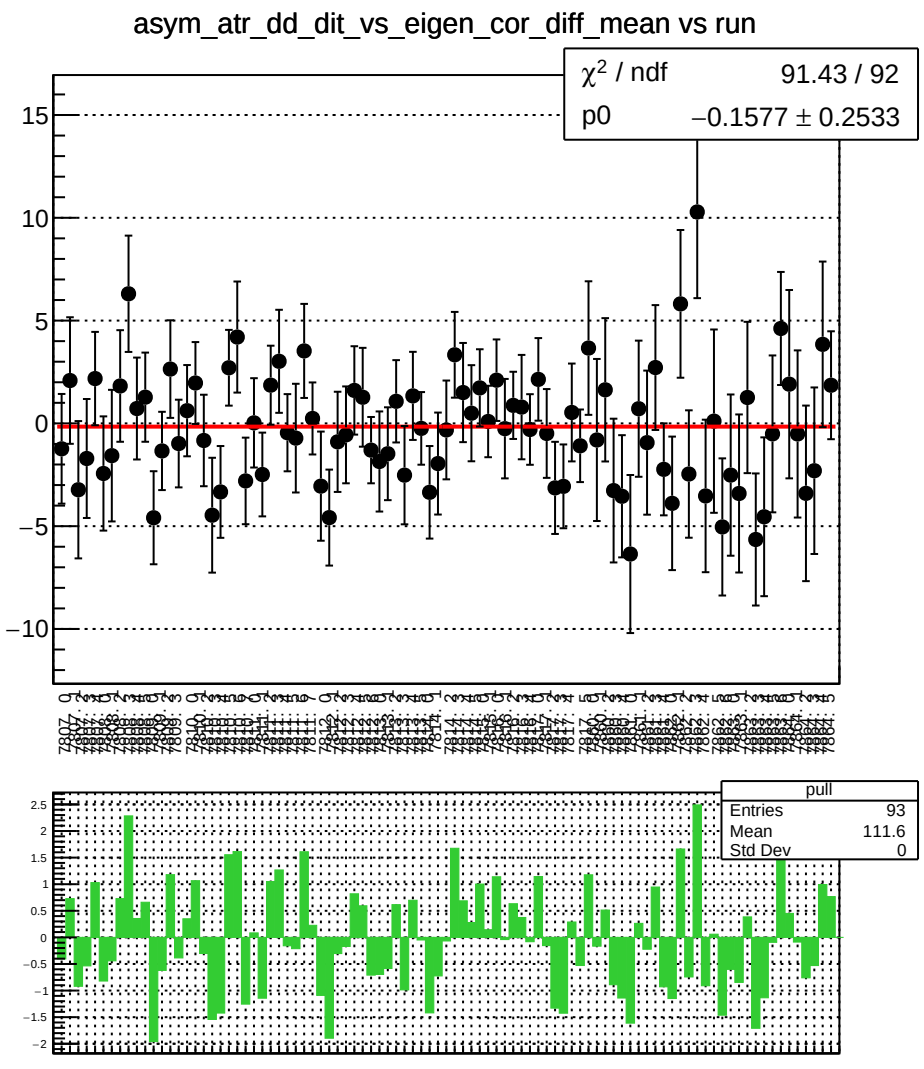

asym_atr_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 92.76 / 92
p0 −1.211e−12 ± 1.157e−12
0.025
0.02
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 93
Mean 94.54
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.06759
Std Dev 0.9964
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

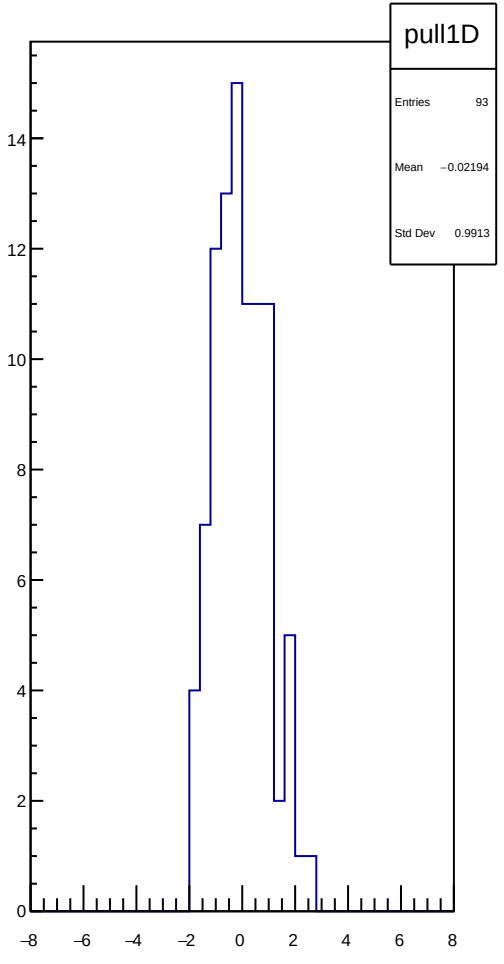

asym_atr_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.034e+06 / 92
p0 7.399e−10 ± 8.184e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

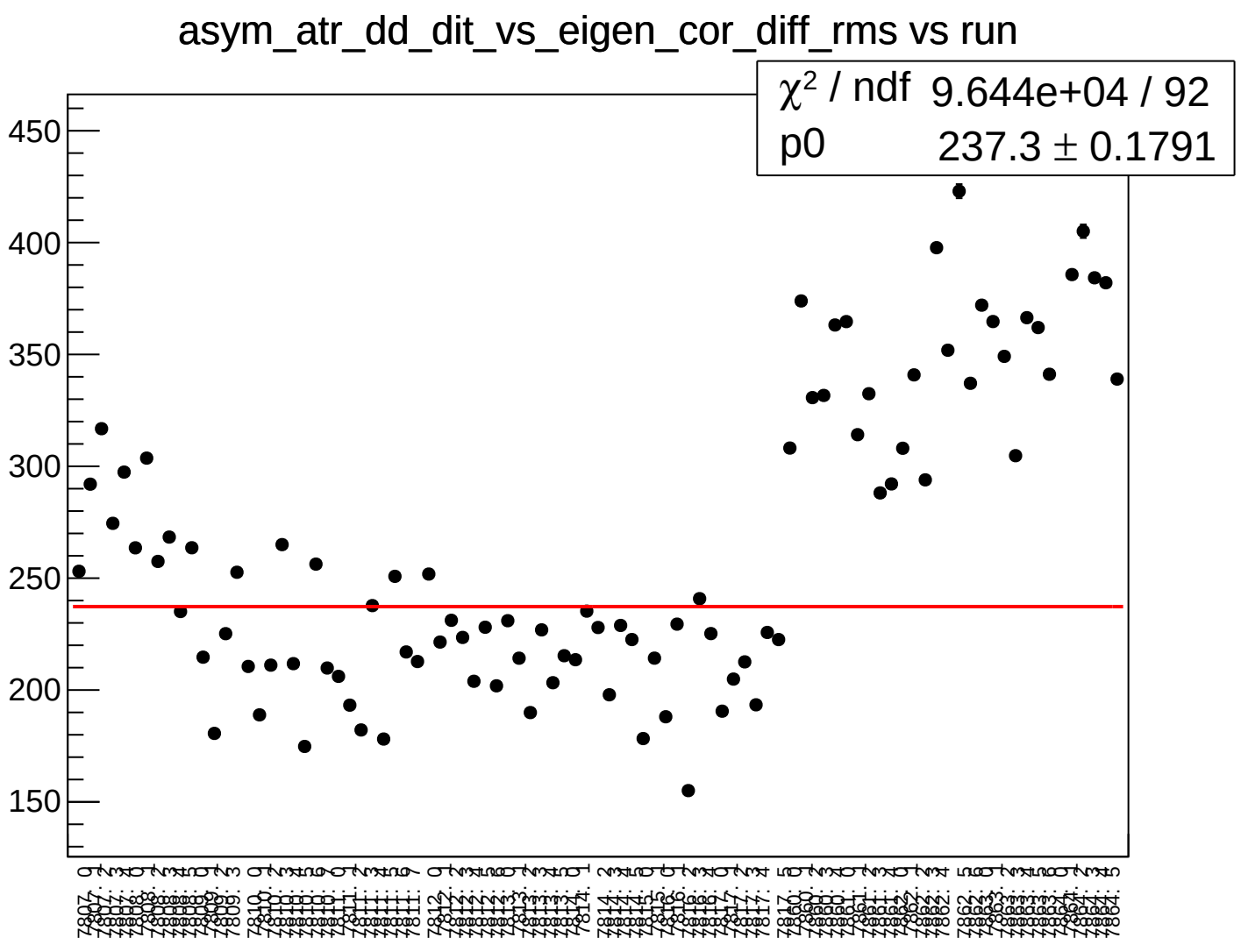

asym_atr_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 91.43 / 92
p0 −0.1577 ± 0.2533
pull
Entries 93
Mean 111.6
Std Dev 0

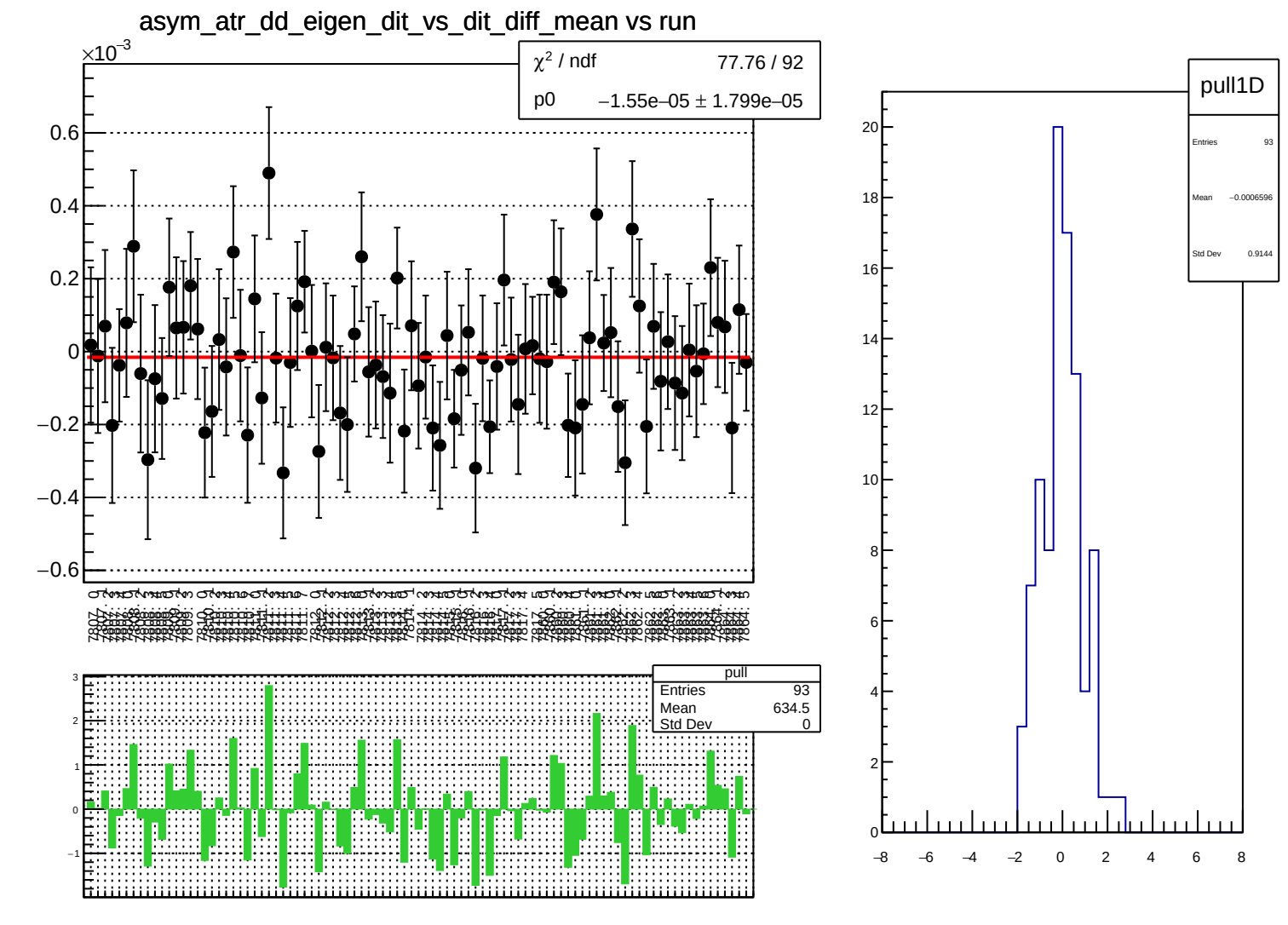

pull1D
Entries 93
Mean −0.02194
Std Dev 0.9913

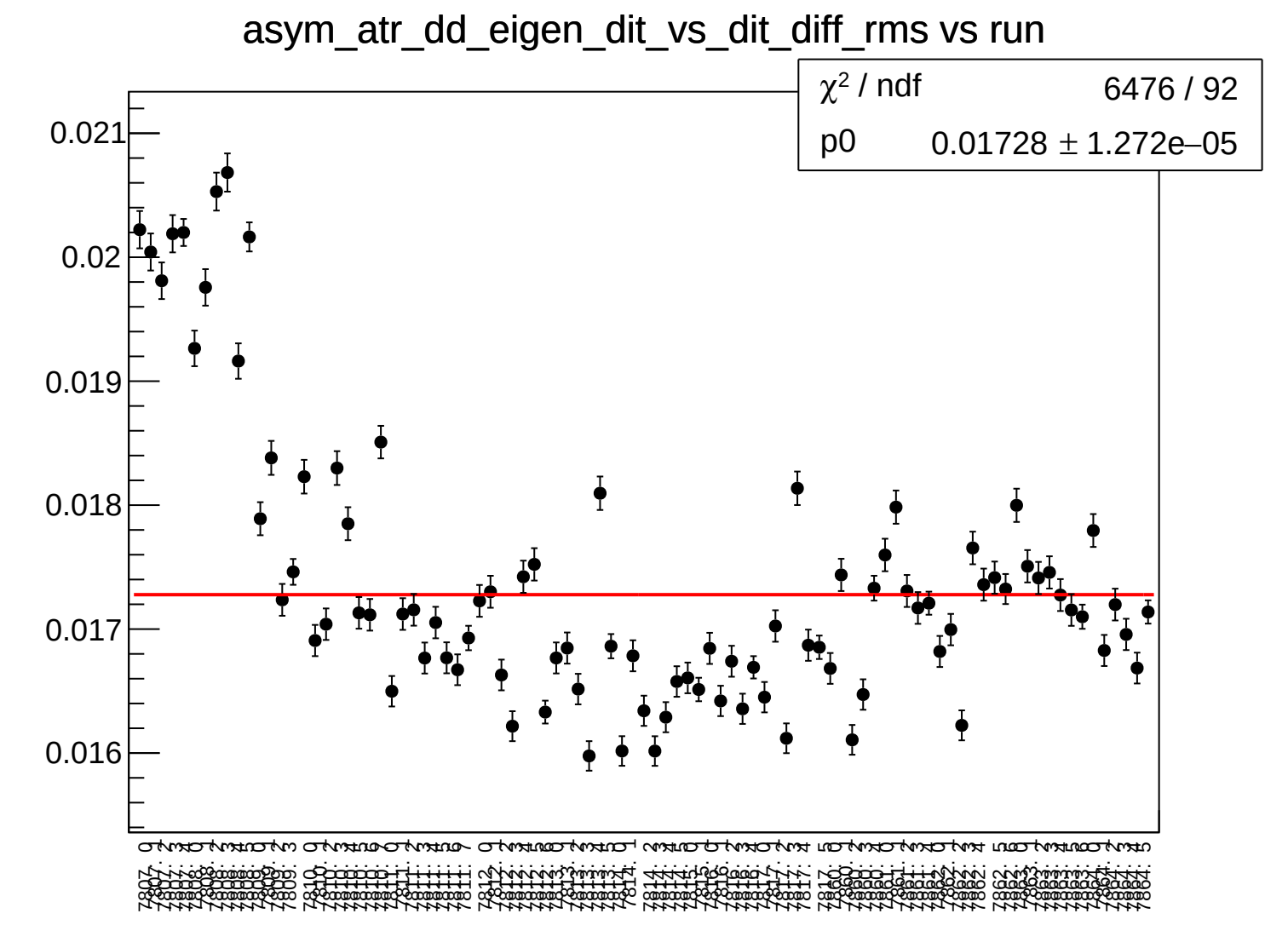

asym_atr_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9.644e+04 / 92
p0 237.3 ± 0.1791
450
400
350
300
250
200
150

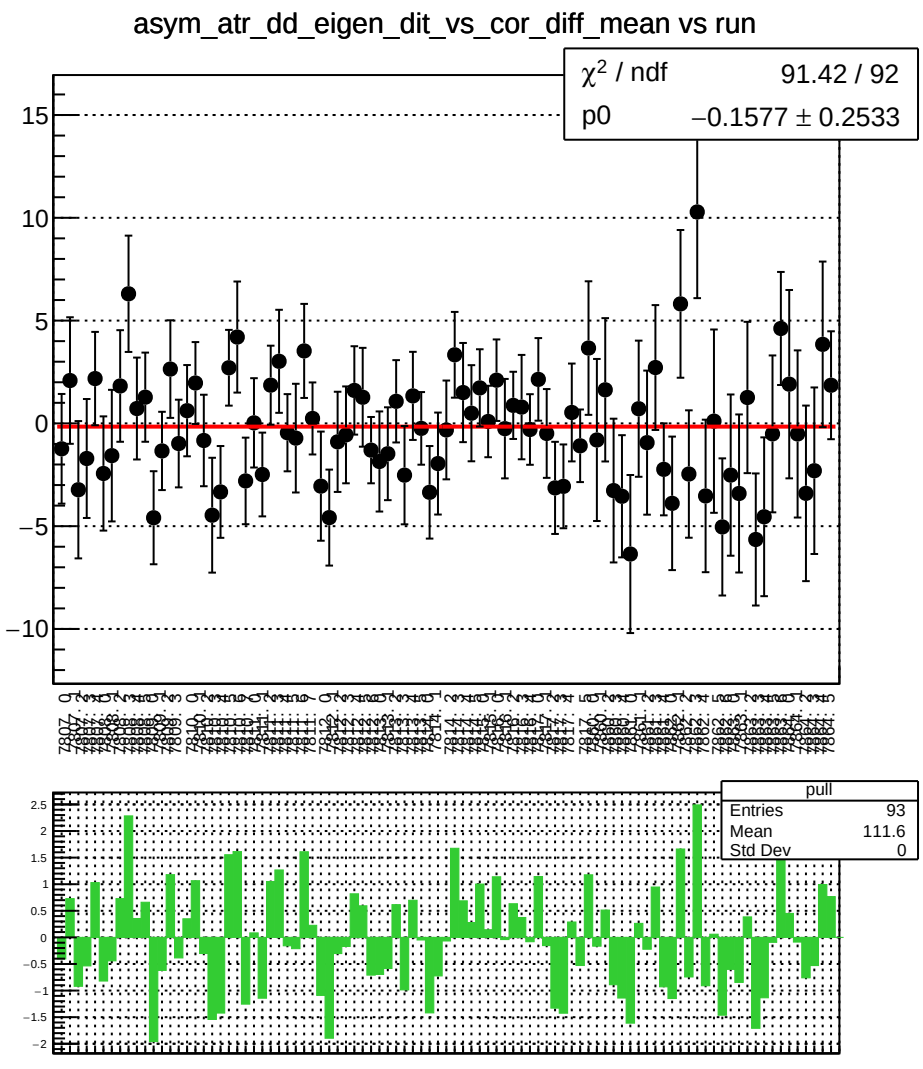

asym_atr_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.43 / 92
p0 −0.1577 ± 0.2533
pull
Entries 93
Mean 111.6
Std Dev 0

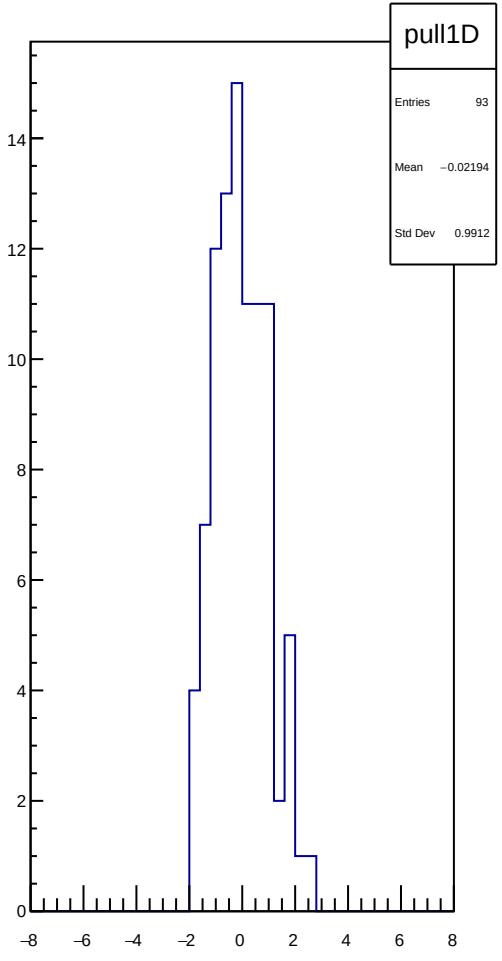

pull1D
Entries 93
Mean −0.02194
Std Dev 0.9913

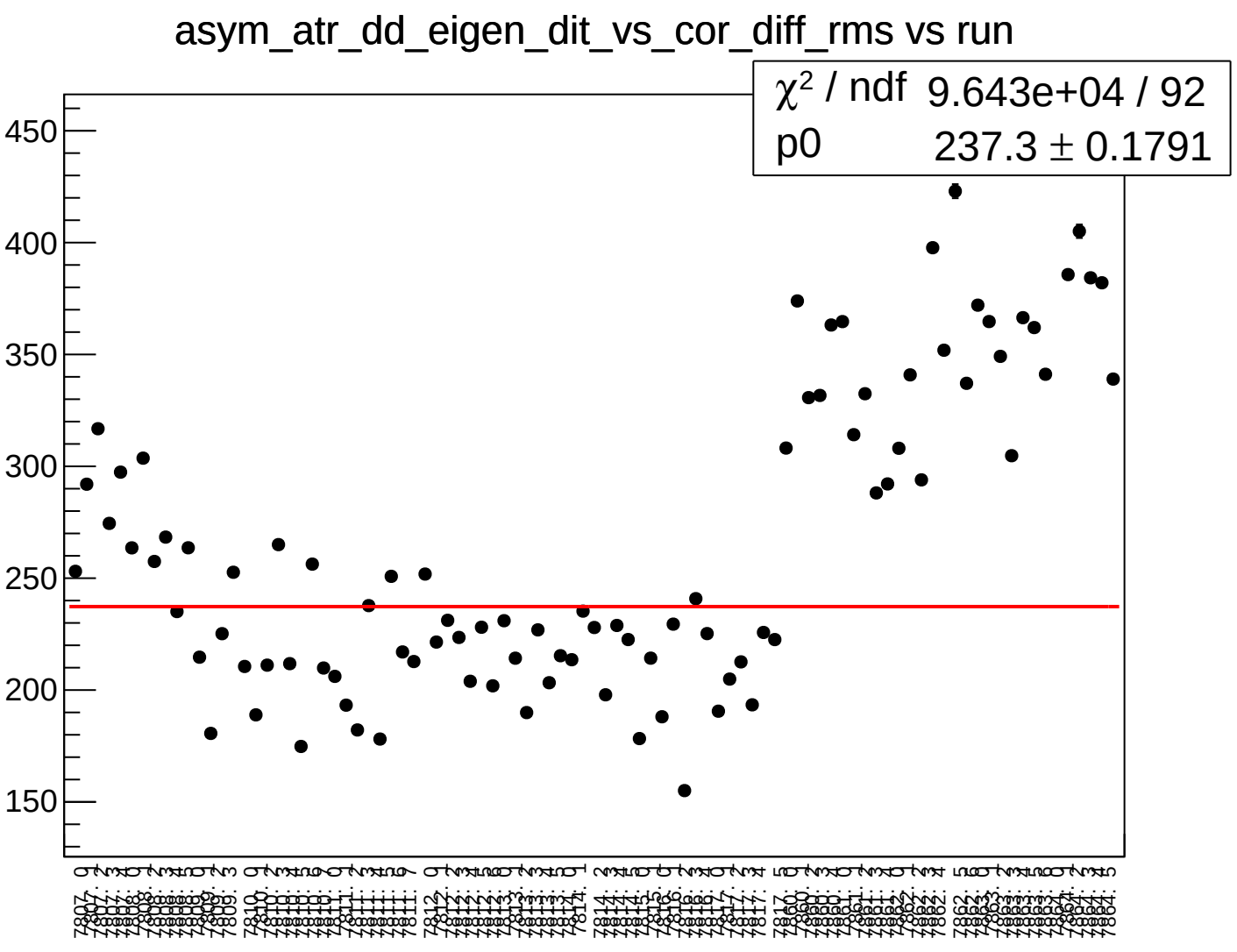

asym_atr_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.644e+04 / 92
p0 237.3 ± 0.1791
450
400
350
300
250
200
150


asym_atr_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 77.76 / 92
p0 −1.55e−05 ± 1.799e−05
pull
Entries 93
Mean 634.5
Std Dev 0
pull1D
Entries 93
Mean −0.0006596
Std Dev 0.9144

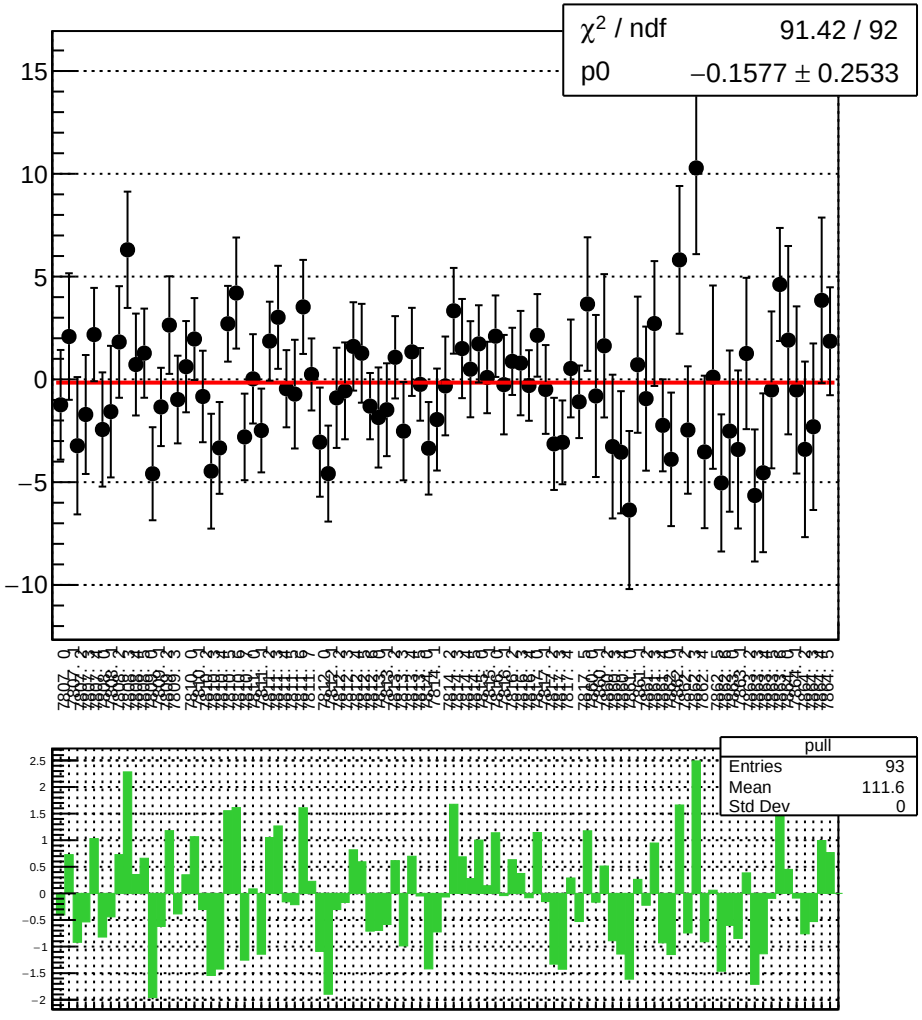

asym_atr_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6476 / 92
p0 0.01728 ± 1.272e–05
0.021
0.02
0.019
0.018
0.017
0.016

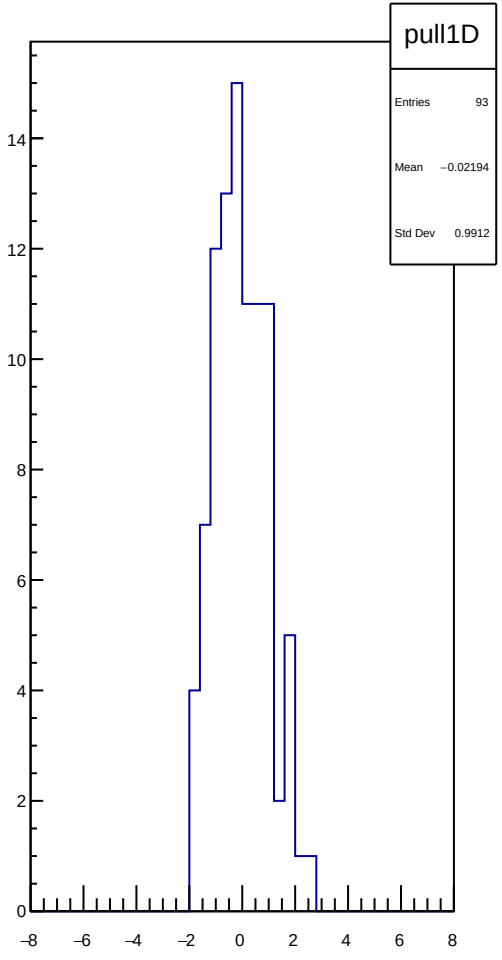

asym_atr_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.42 / 92
p0 −0.1577 ± 0.2533
pull
Entries 93
Mean 111.6
Std Dev 0

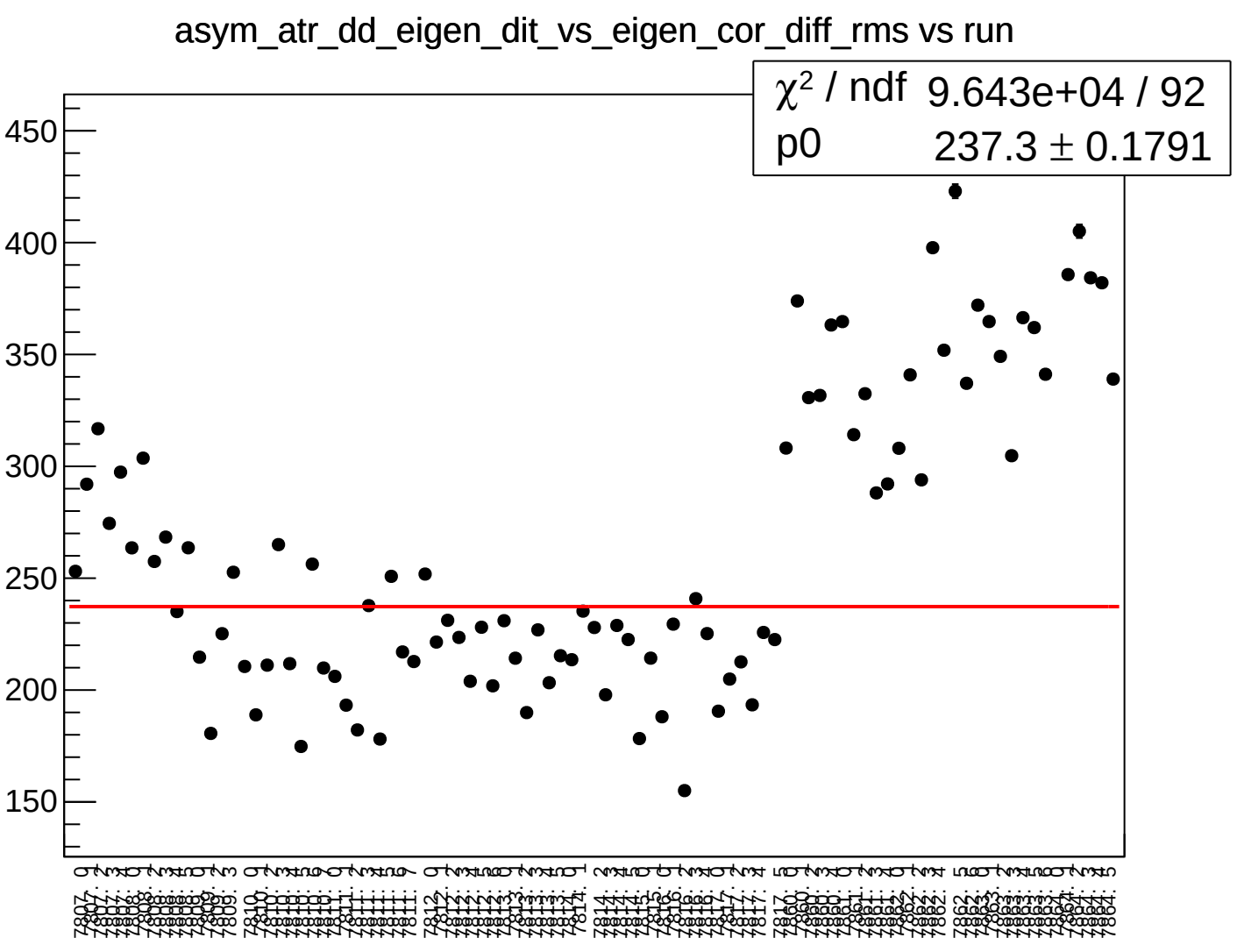

pull1D
Entries 93
Mean −0.02194
Std Dev 0.9912

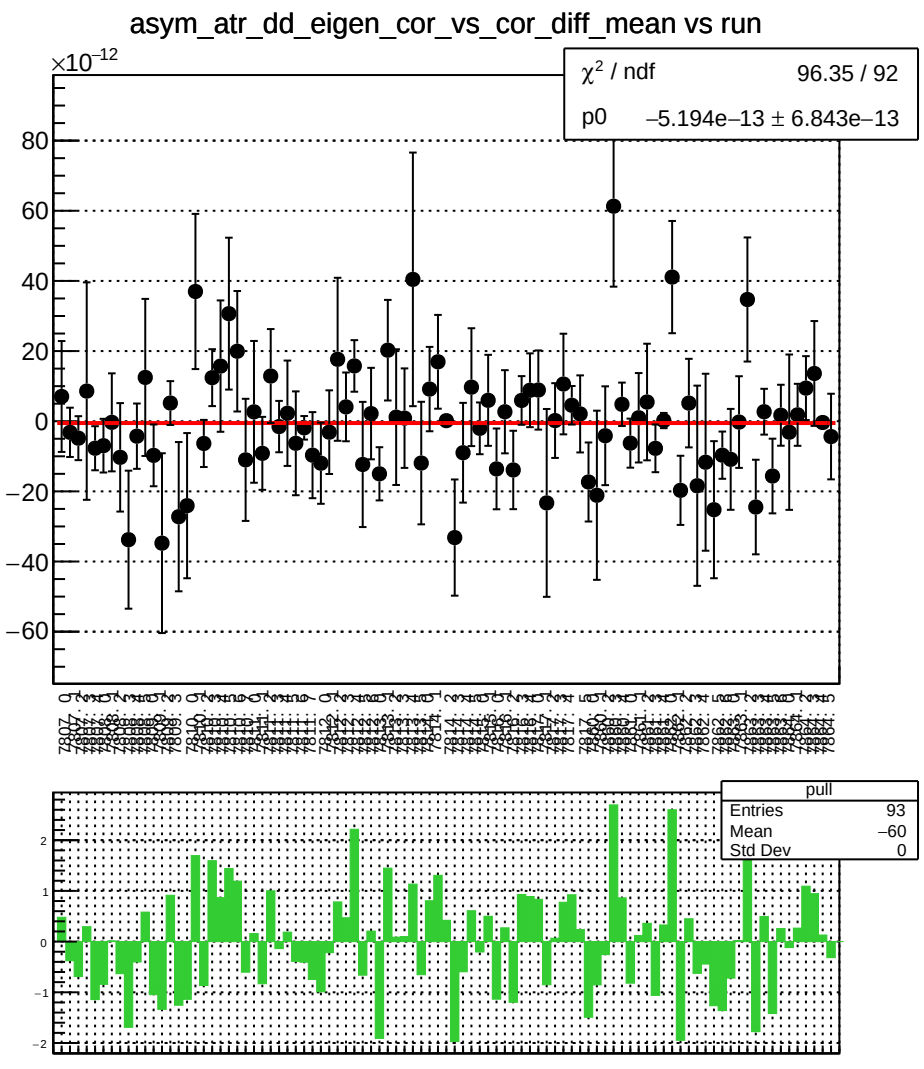

asym_atr_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.643e+04 / 92
p0 237.3 ± 0.1791
450
400
350
300
250
200
150

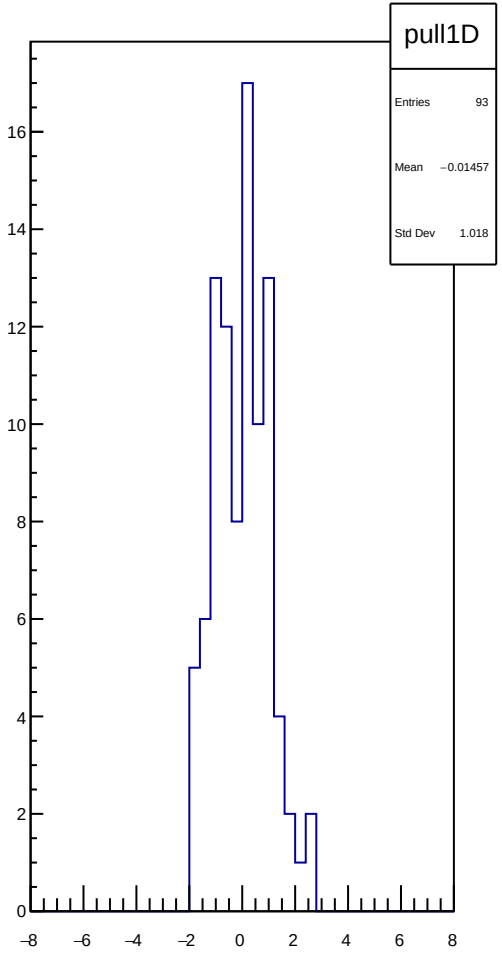
asym_atr_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

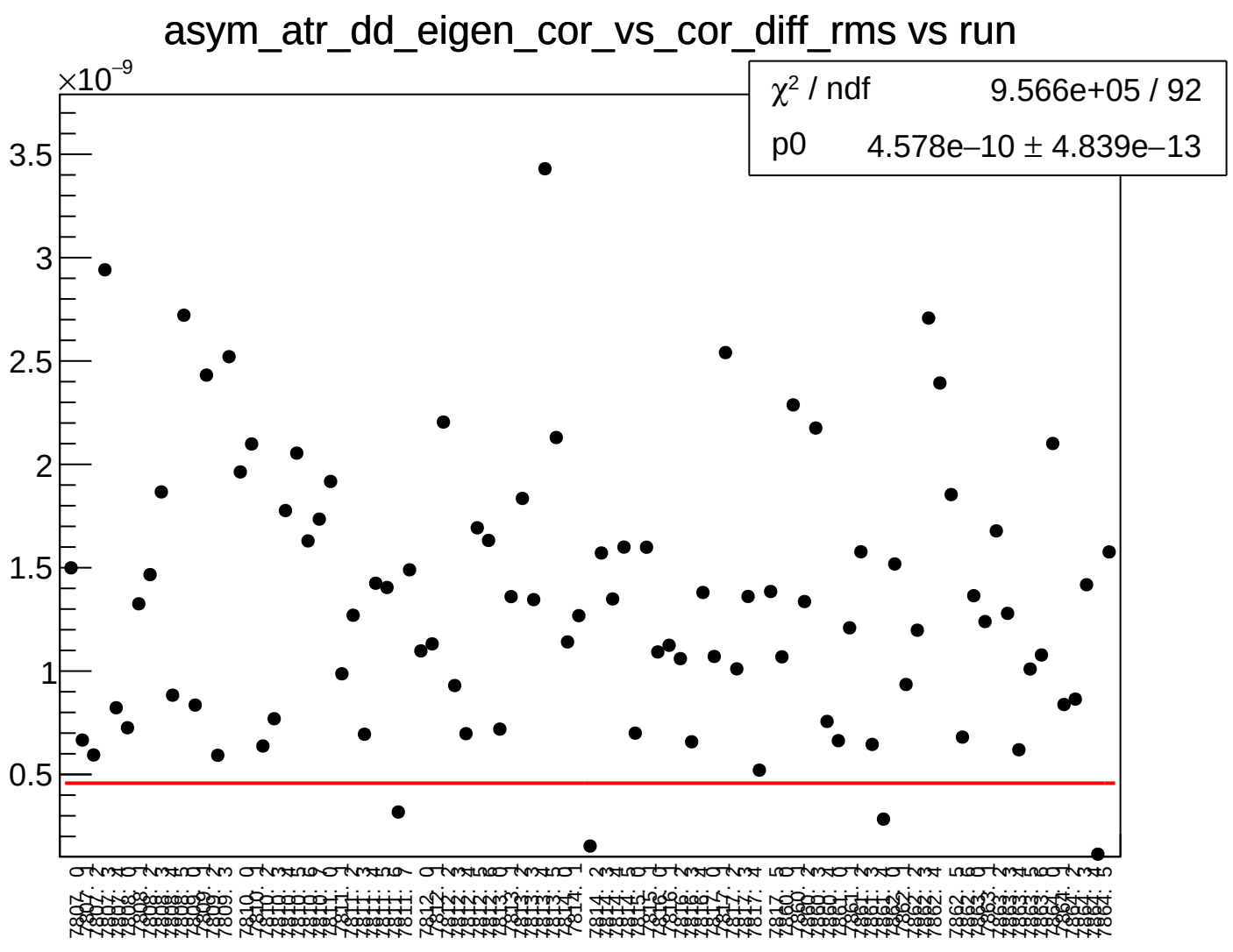


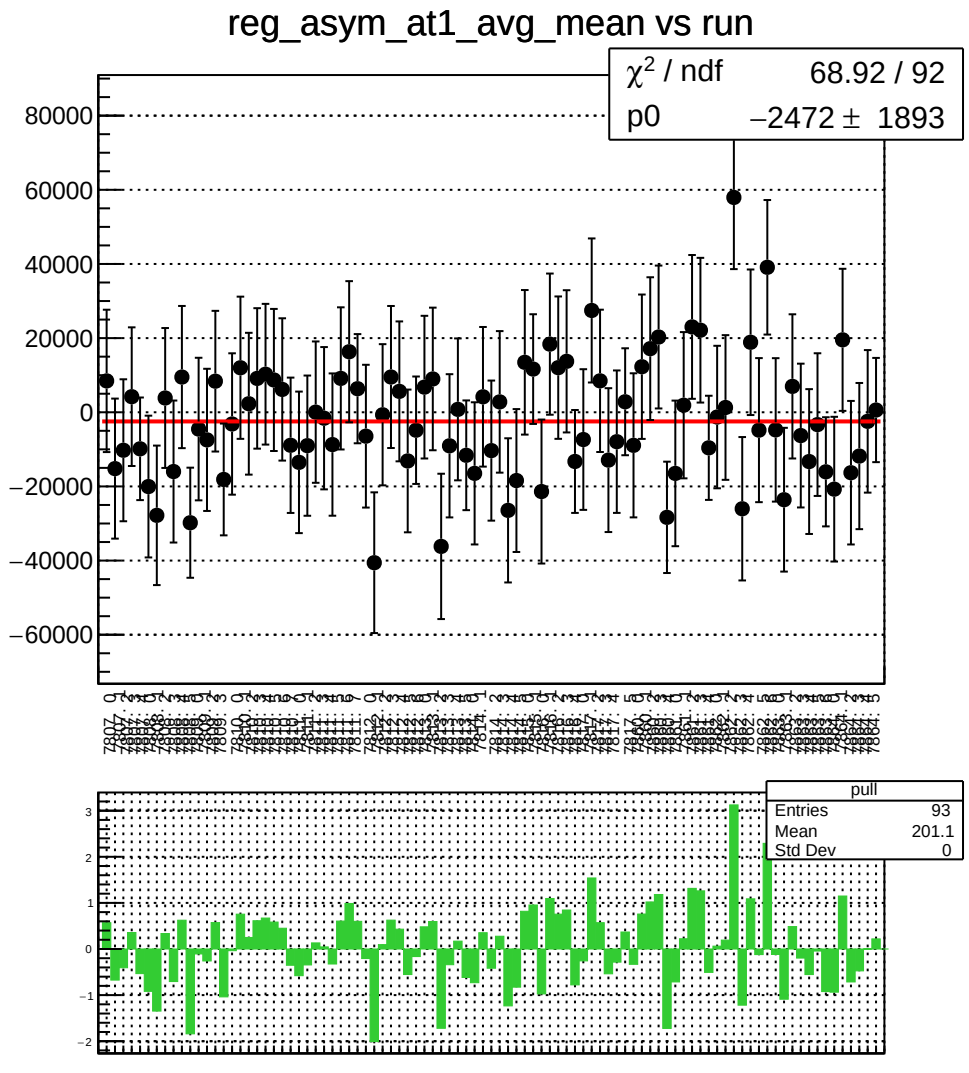


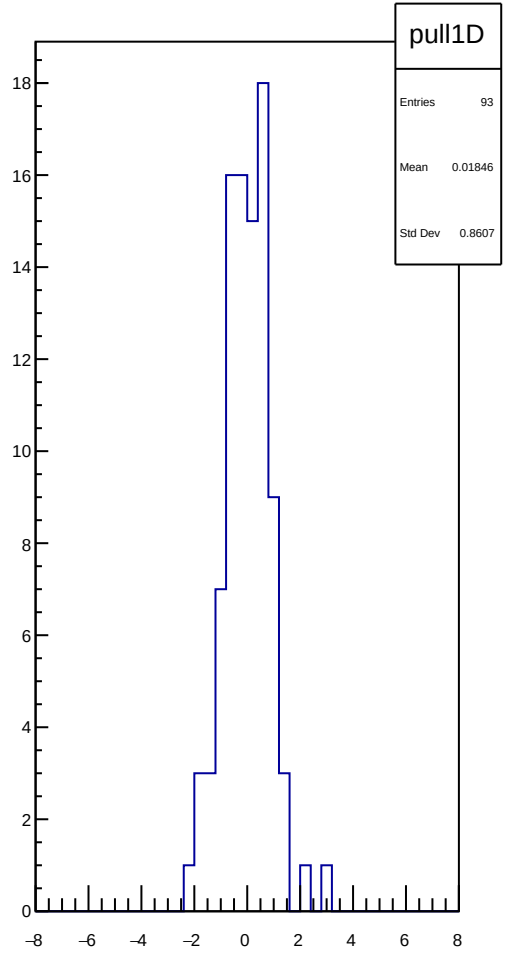

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.643e+04 / 92
p0 237.3 ± 0.1791
450
400
350
300
250
200
150

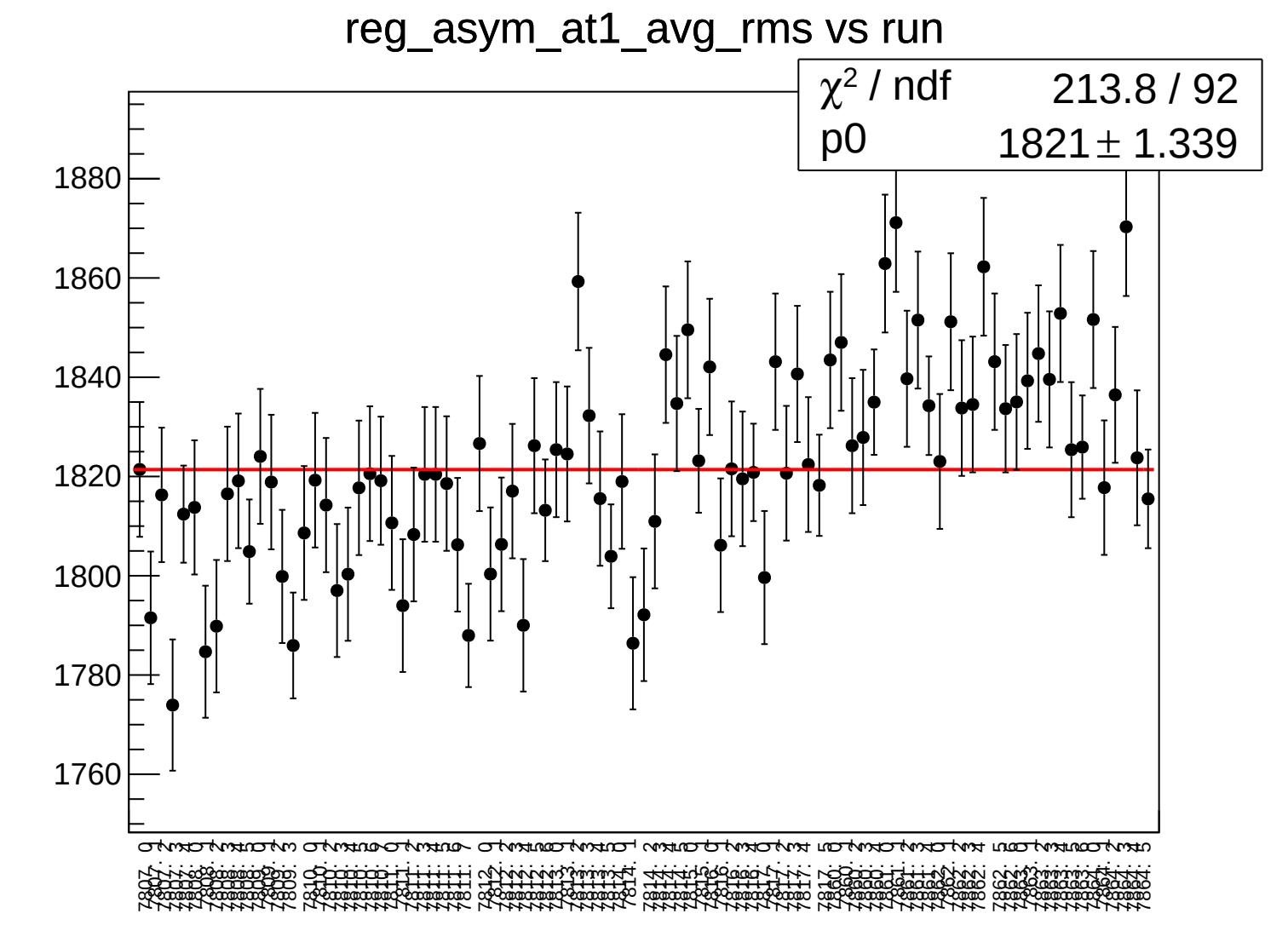

asym_atr_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.35 / 92
p0 −5.194e−13 ± 6.843e−13
pull
Entries 93
Mean −60
Std Dev 0

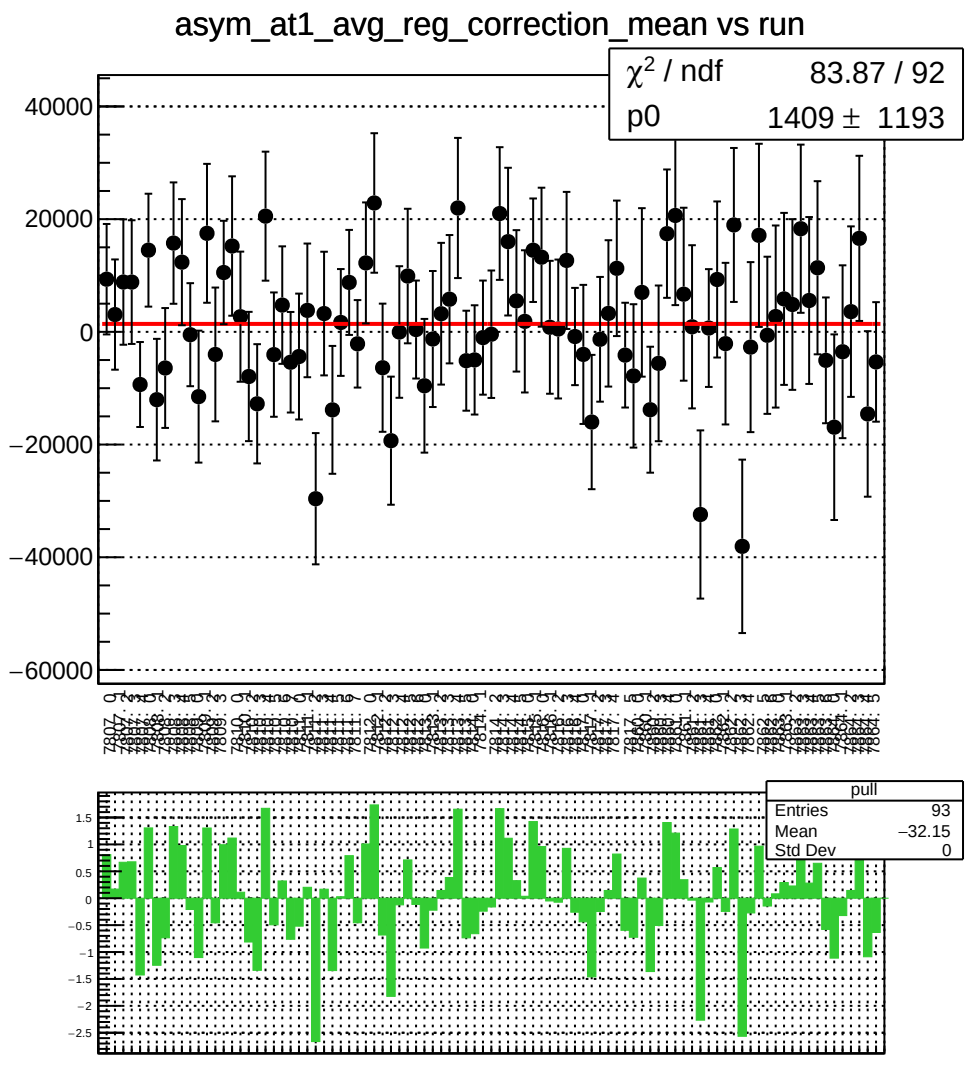

pull1D
Entries 93
Mean −0.01457
Std Dev 1.018

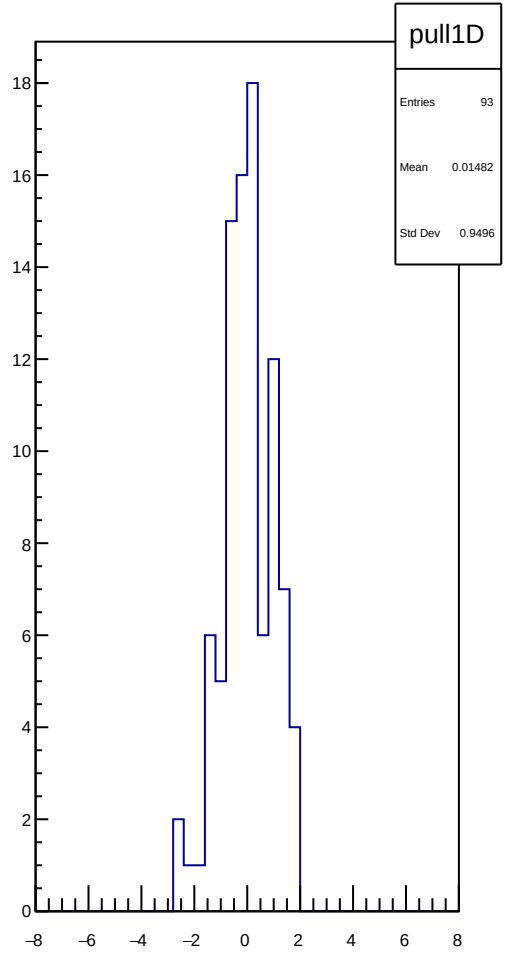

asym_atr_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.566e+05 / 92
p0 4.578e−10 ± 4.839e−13
3.5
3
2.5
2
1.5
1
0.5

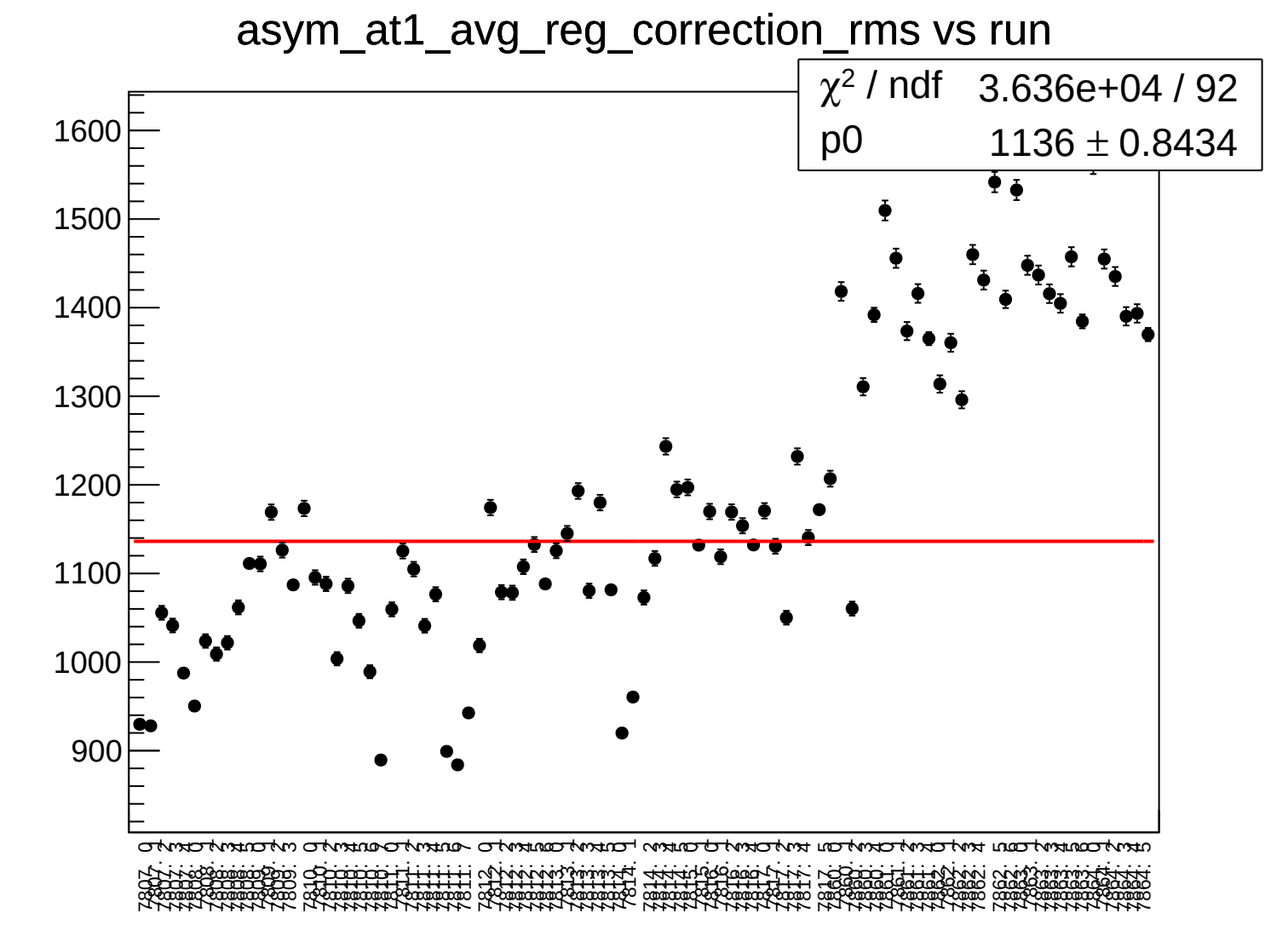

reg_asym_at1_avg_mean vs run
χ² / ndf 68.92 / 92
p0 −2472 ± 1893
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 201.1
Std Dev 0
3
2
1
0
−1
−2

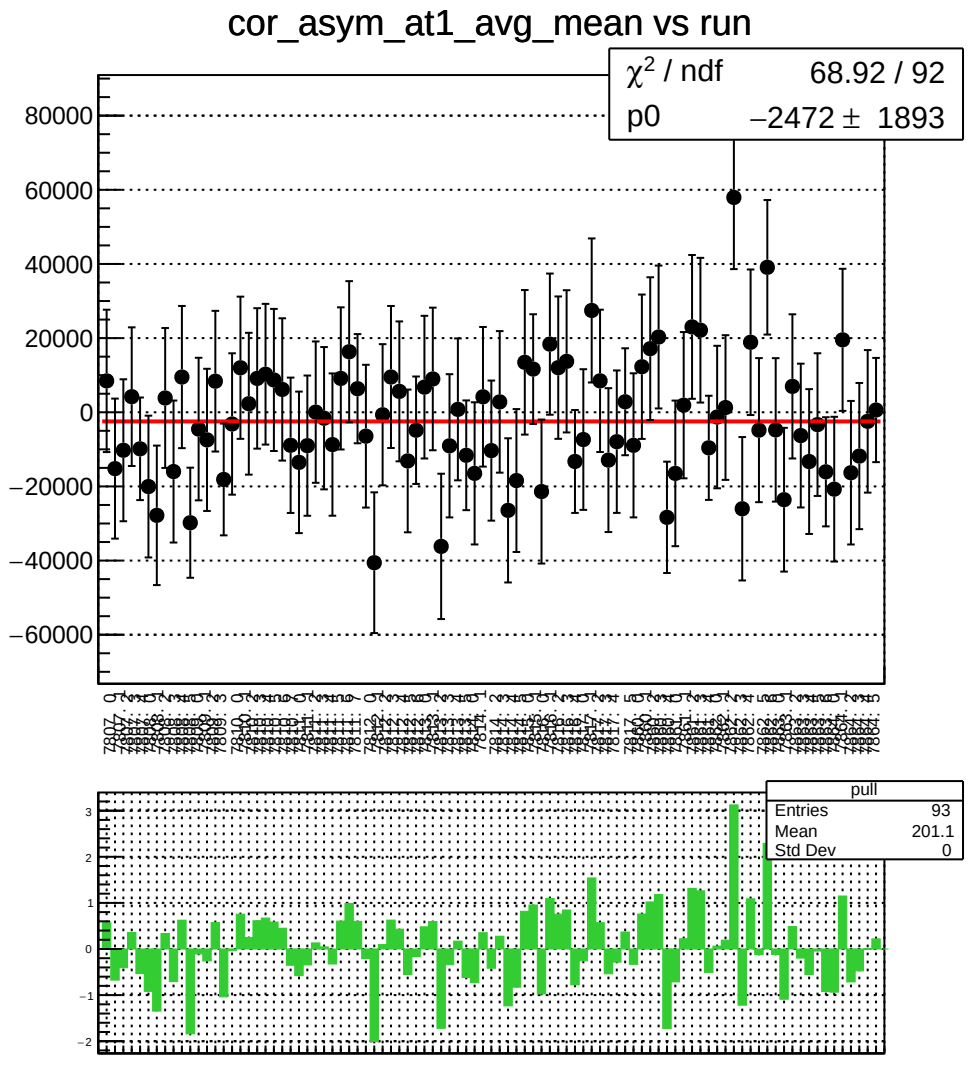

pull1D
Entries 93
Mean 0.01846
Std Dev 0.8607
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

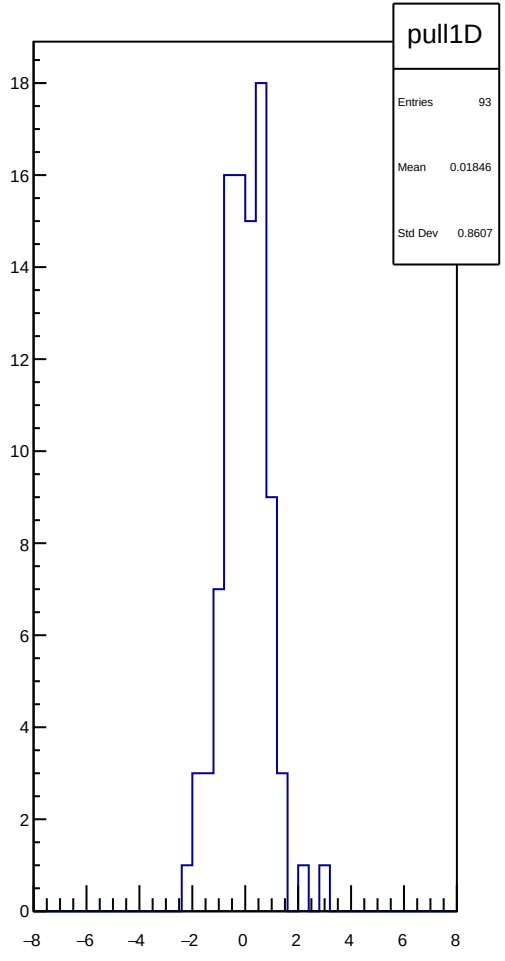

reg_asym_at1_avg_rms vs run
χ² / ndf 213.8 / 92
p0 1821 ± 1.339
1880
1860
1840
1820
1800
1780
1760

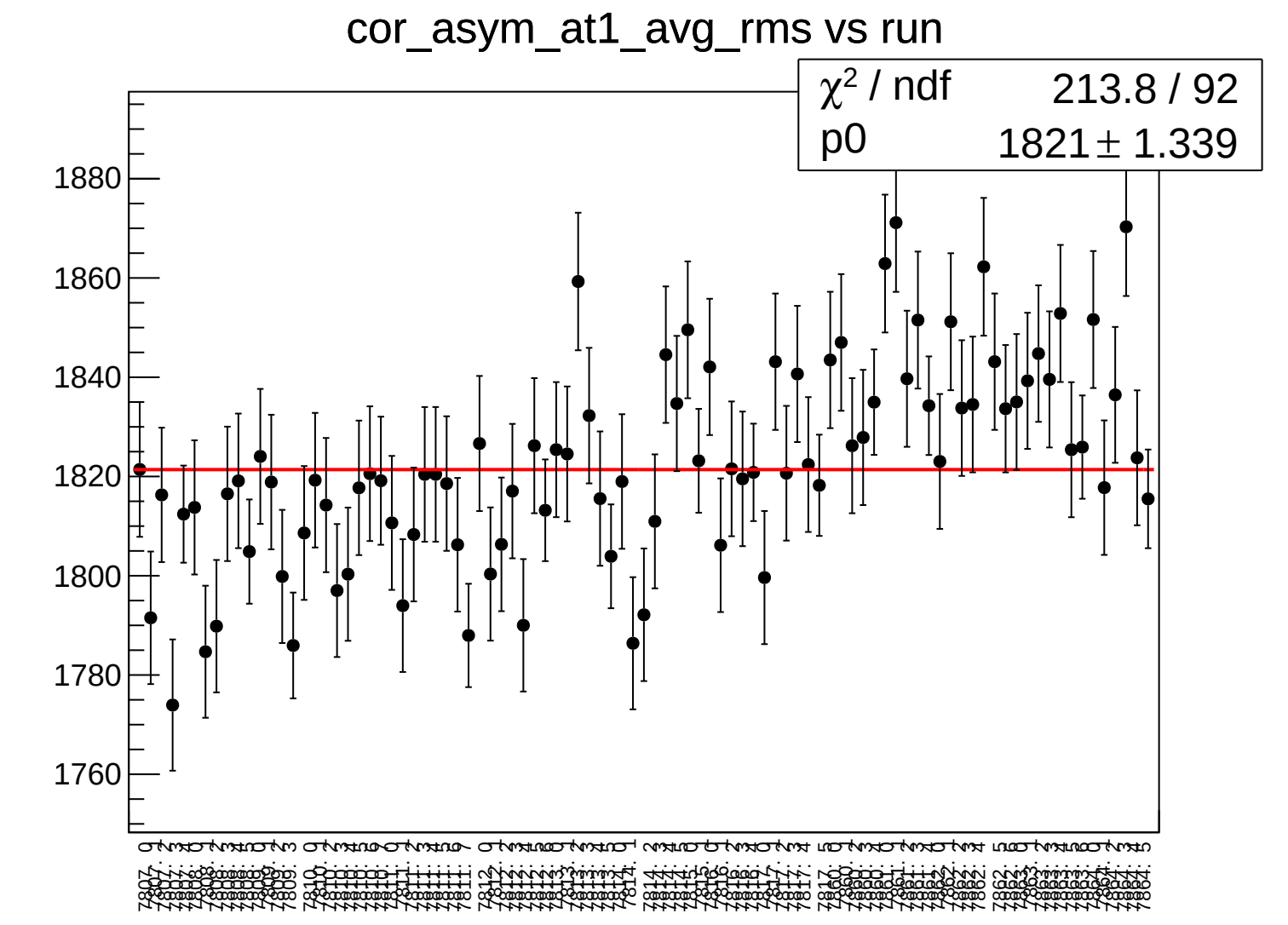

asym_at1_avg_reg_correction_mean vs run
χ² / ndf 83.87 / 92
p0 1409 ± 1193
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −32.15
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

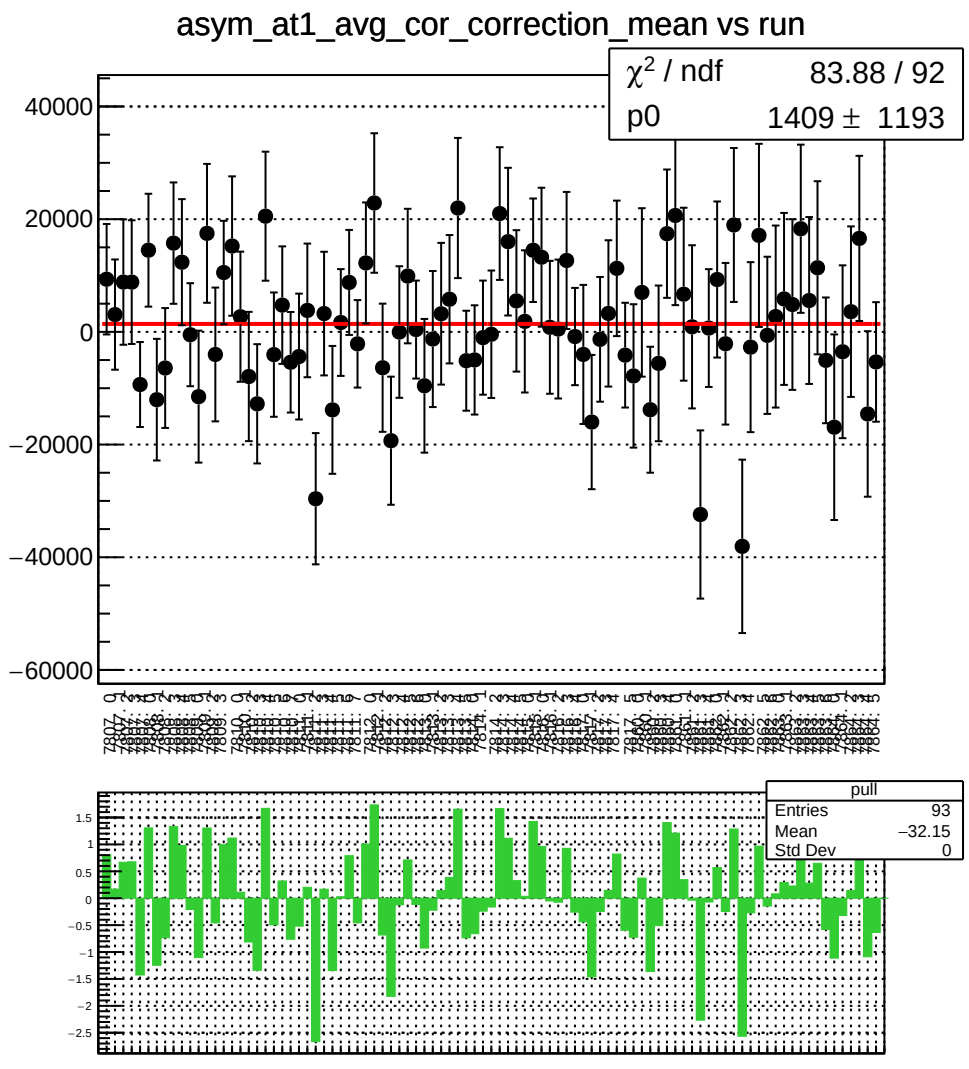

pull1D
Entries 93
Mean 0.01482
Std Dev 0.9496
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

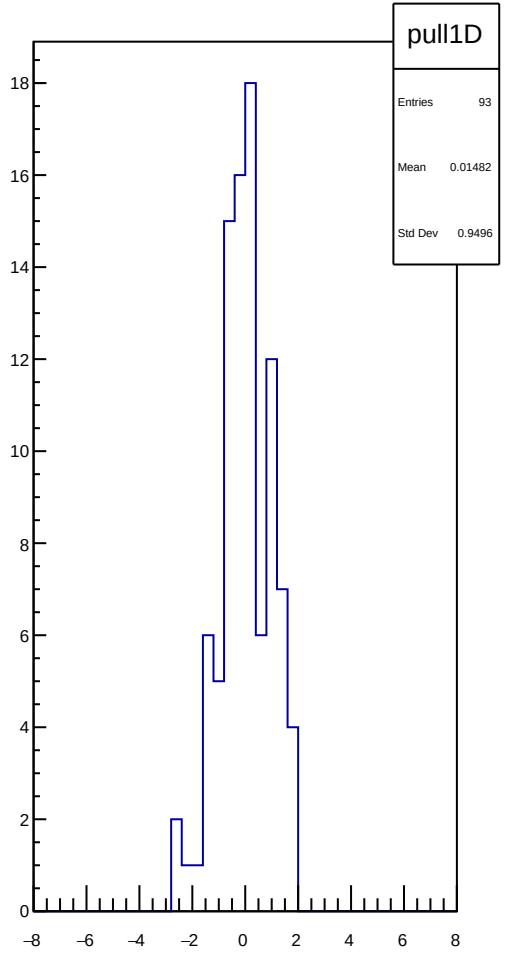

asym_at1_avg_reg_correction_rms vs run
χ² / ndf 3.636e+04 / 92
p0 1136 ± 0.8434
1600
1500
1400
1300
1200
1100
1000
900

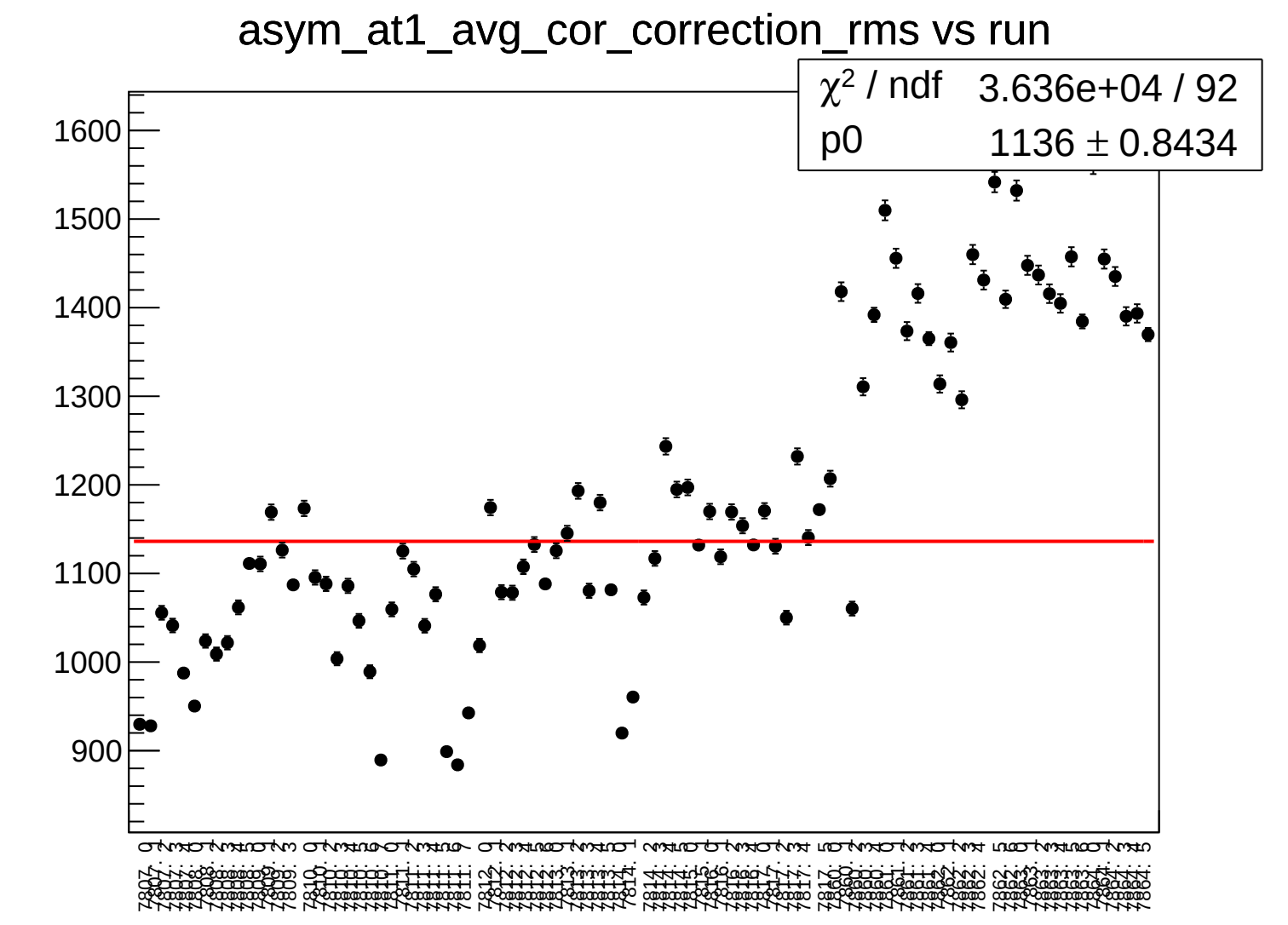

cor_asym_at1_avg_mean vs run
χ² / ndf 68.92 / 92
p0 −2472 ± 1893
pull
Entries 93
Mean 201.1
Std Dev 0

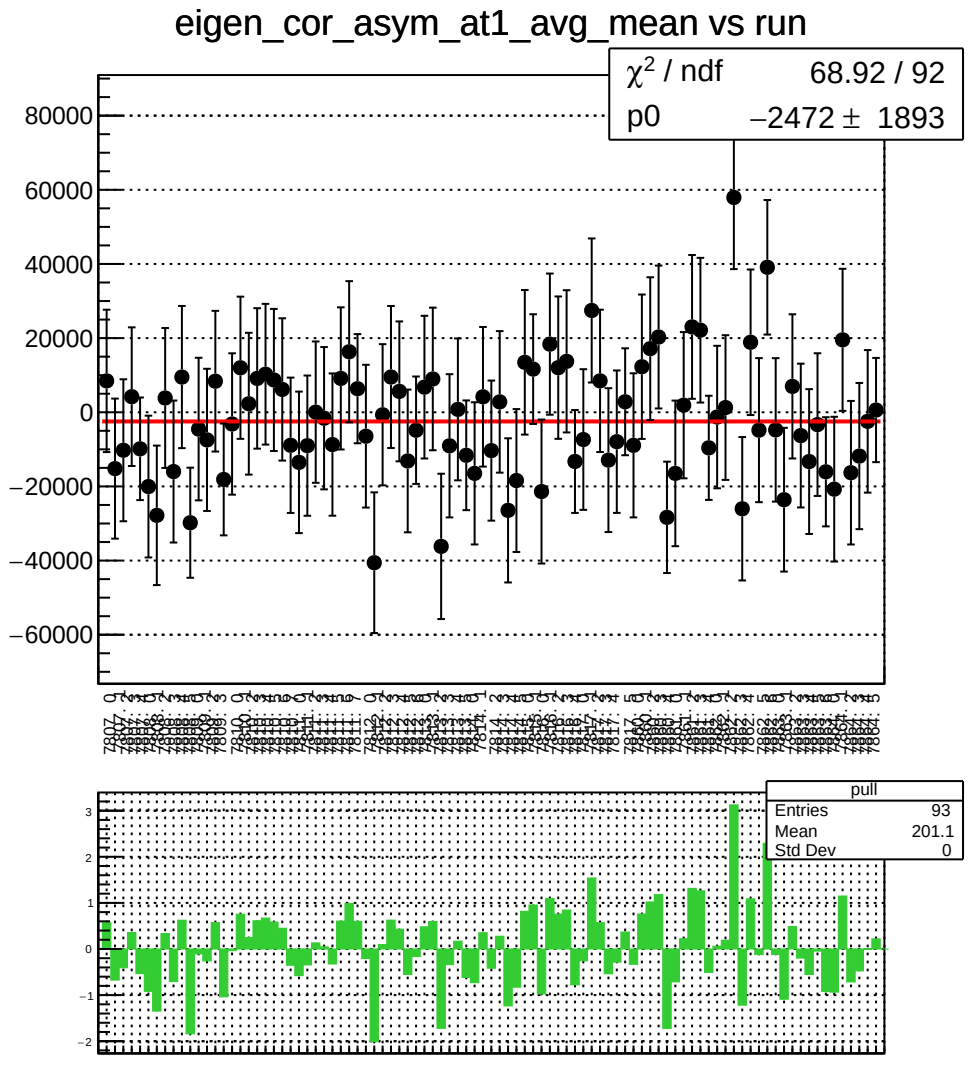

pull1D
Entries 93
Mean 0.01846
Std Dev 0.8607

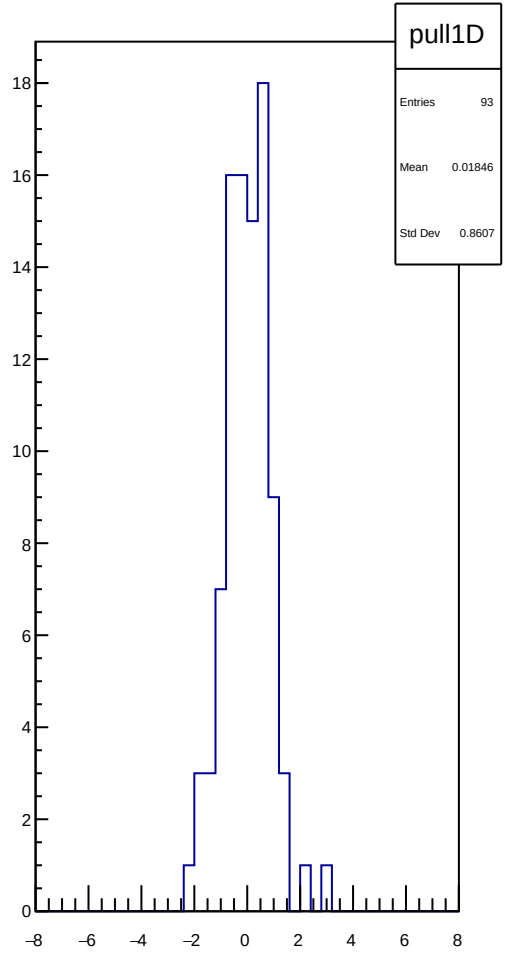

cor_asym_at1_avg_rms vs run
χ^2 / ndf 213.8 / 92
p0 1821 ± 1.339
1880
1860
1840
1820
1800
1780
1760

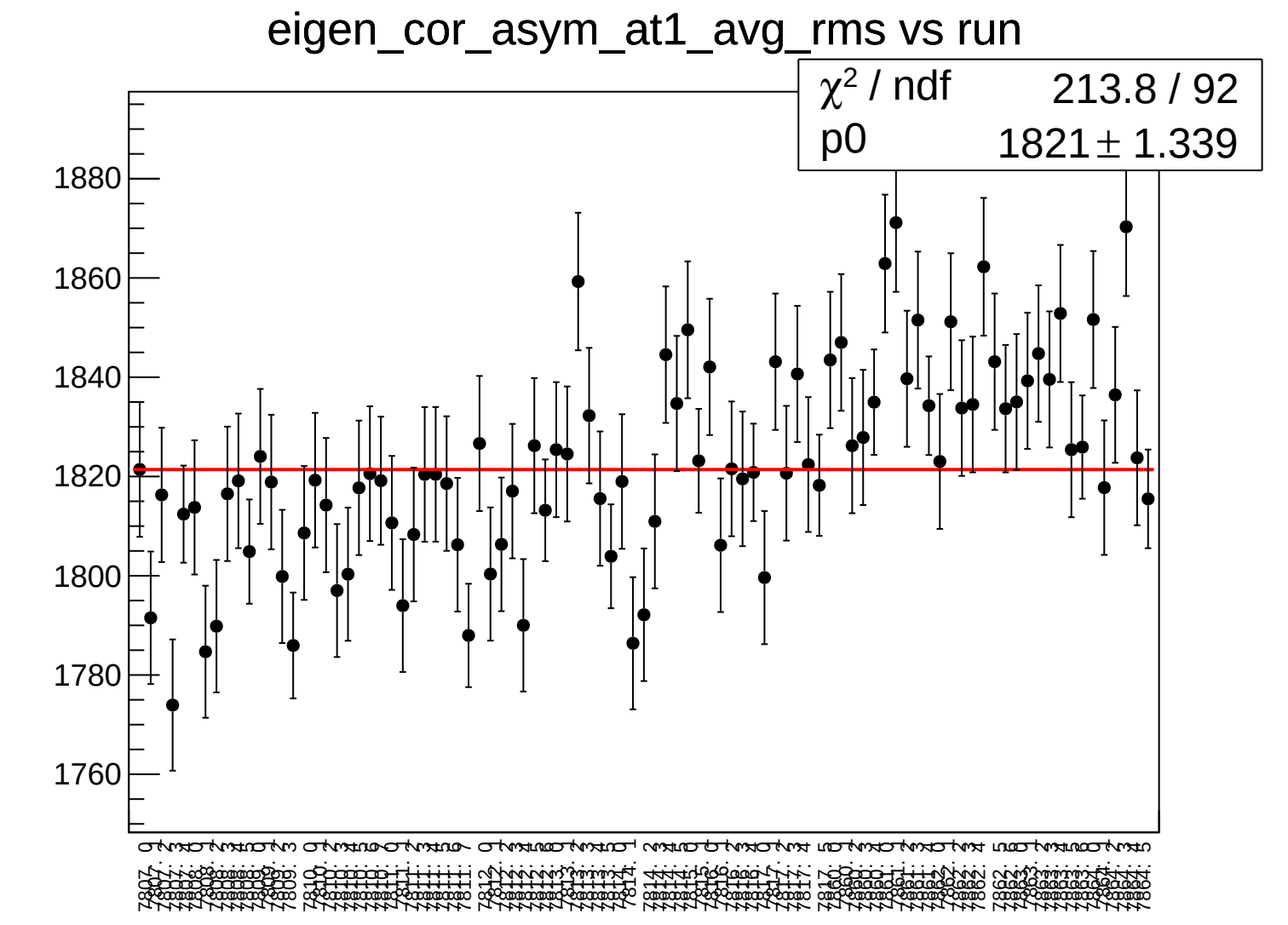

asym_at1_avg_cor_correction_mean vs run
χ² / ndf 83.88 / 92
p0 1409 ± 1193
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −32.15
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

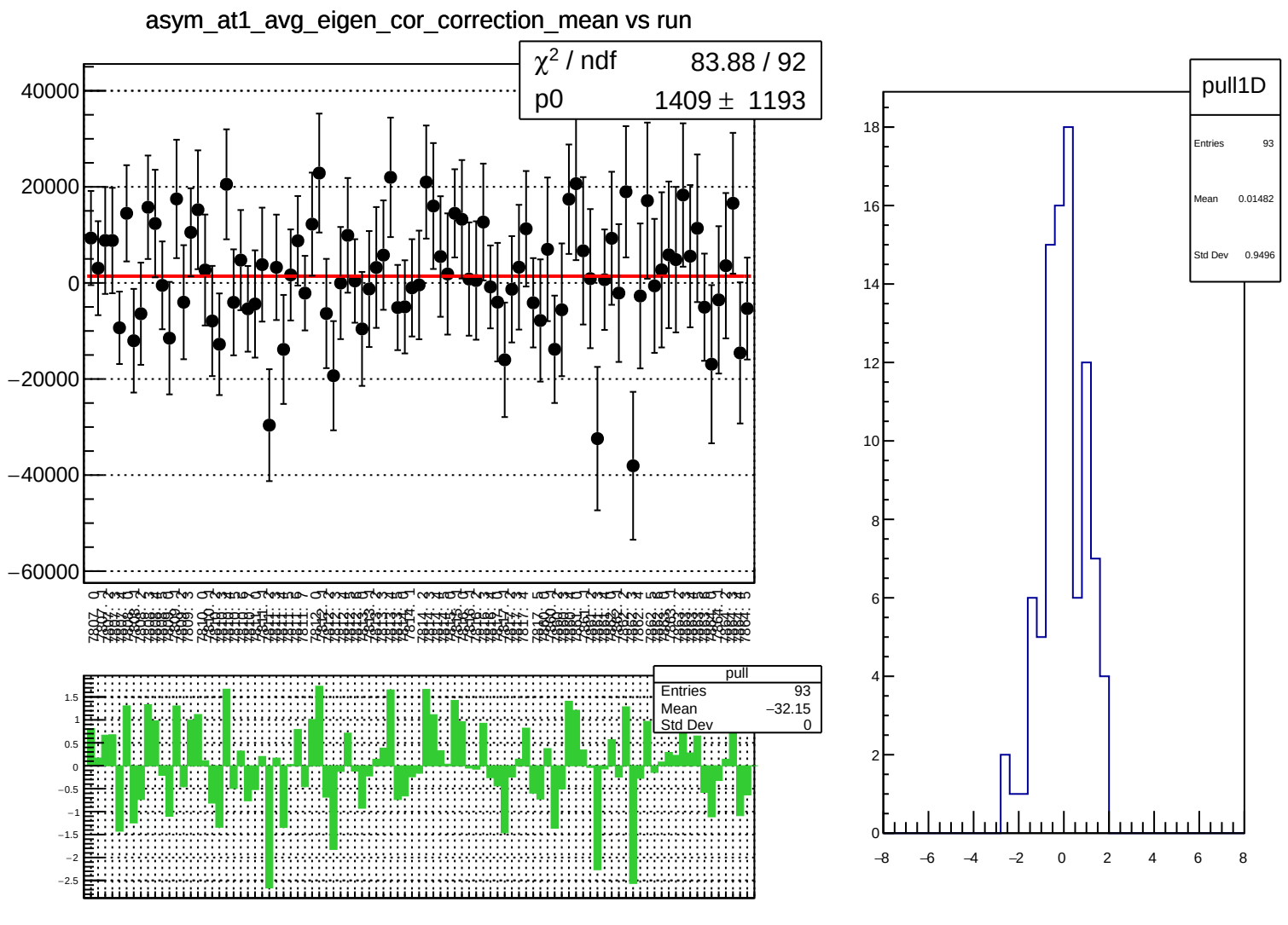

pull1D
Entries 93
Mean 0.01482
Std Dev 0.9496
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

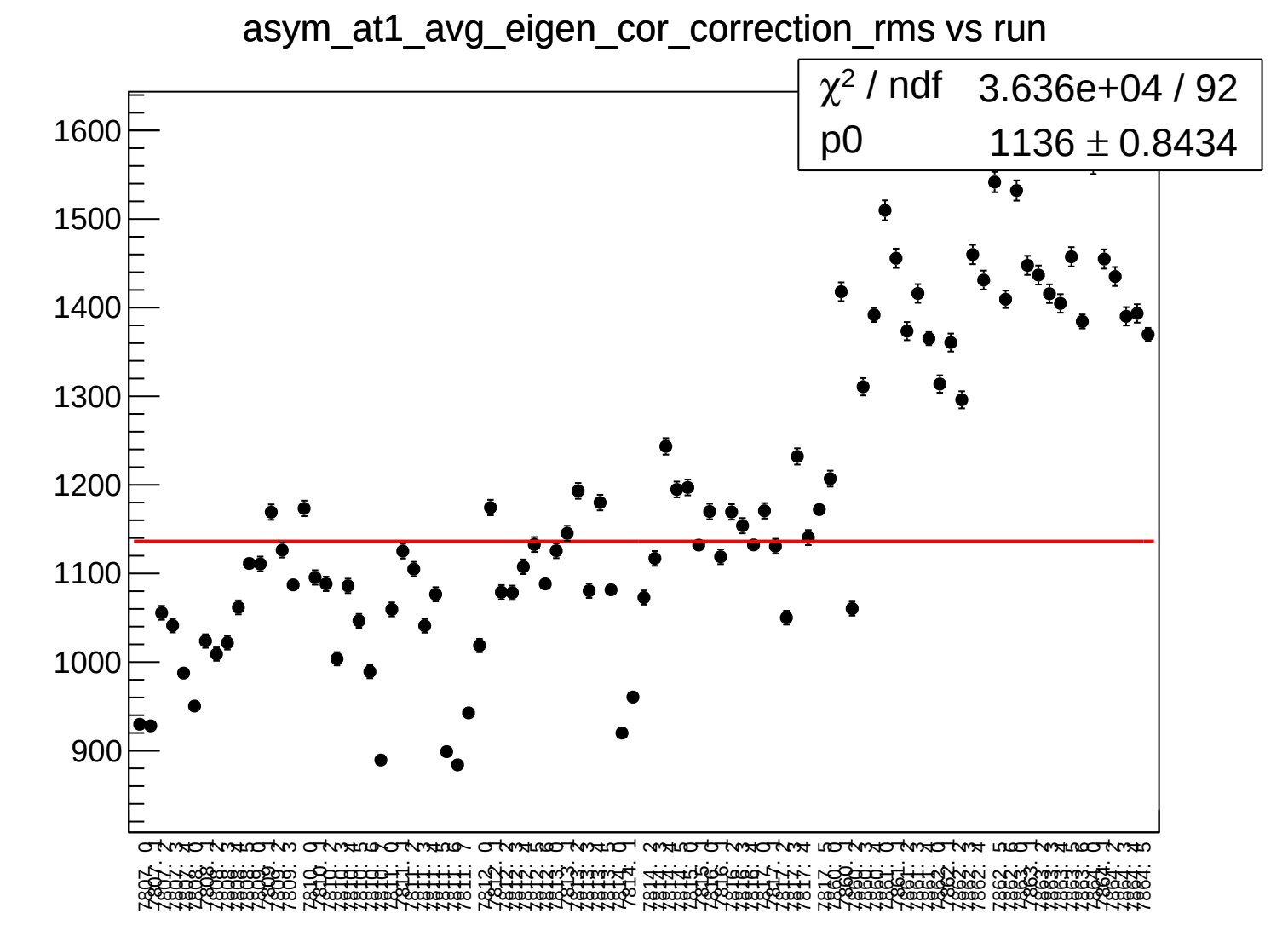

asym_at1_avg_cor_correction_rms vs run
χ² / ndf 3.636e+04 / 92
p0 1136 ± 0.8434
1600
1500
1400
1300
1200
1100
1000
900

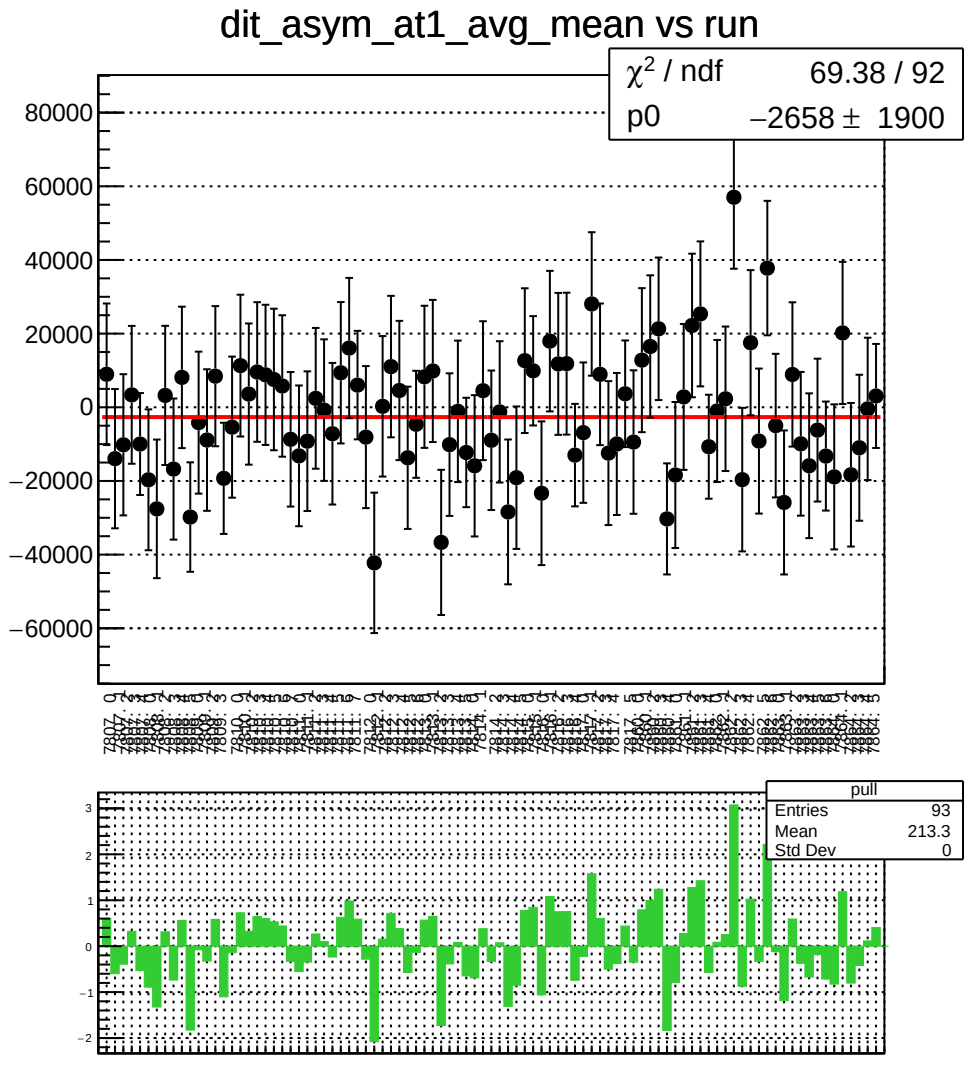

eigen_cor_asym_at1_avg_mean vs run
χ² / ndf 68.92 / 92
p0 −2472 ± 1893
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 201.1
Std Dev 0
3
2
1
0
−1
−2

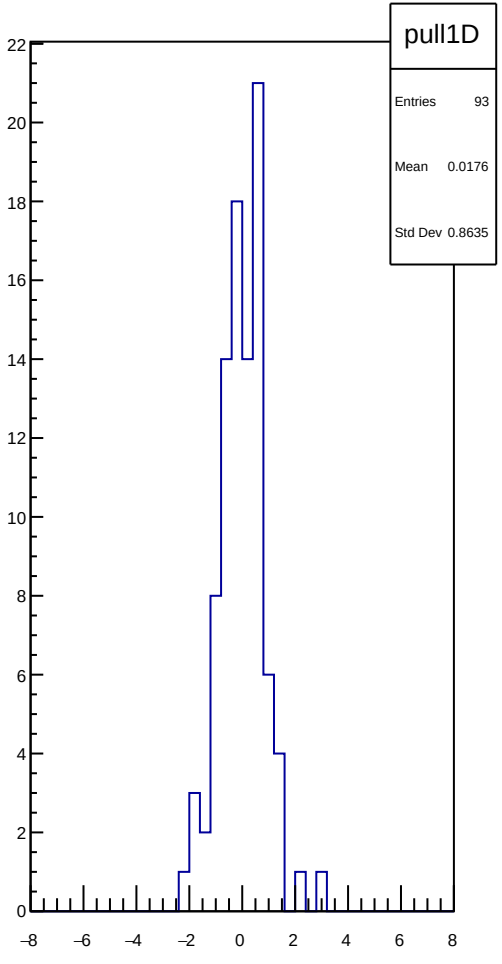

pull1D
Entries 93
Mean 0.01846
Std Dev 0.8607
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

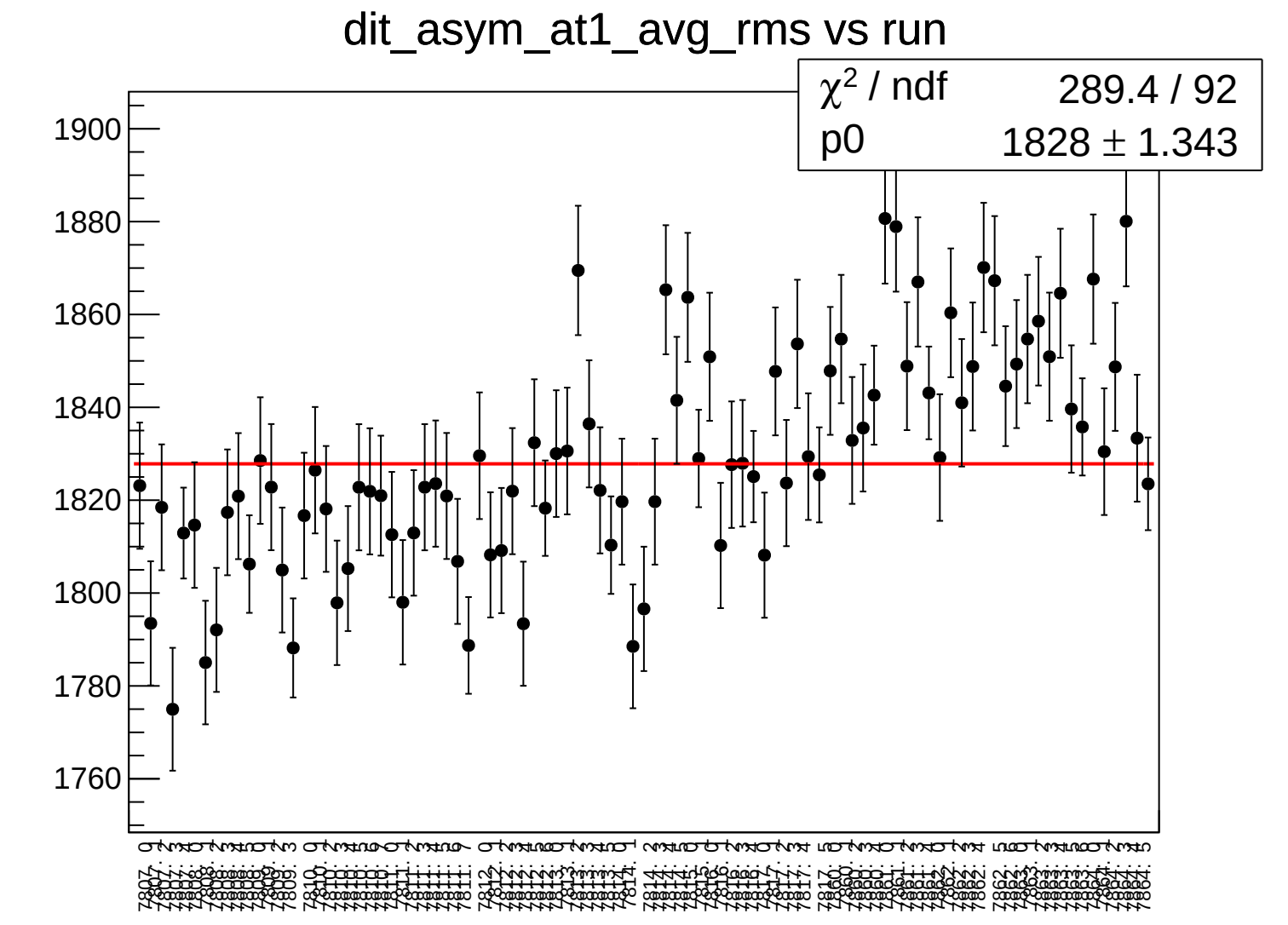

eigen_cor_asym_at1_avg_rms vs run
χ² / ndf 213.8 / 92
p0 1821 ± 1.339
1880
1860
1840
1820
1800
1780
1760

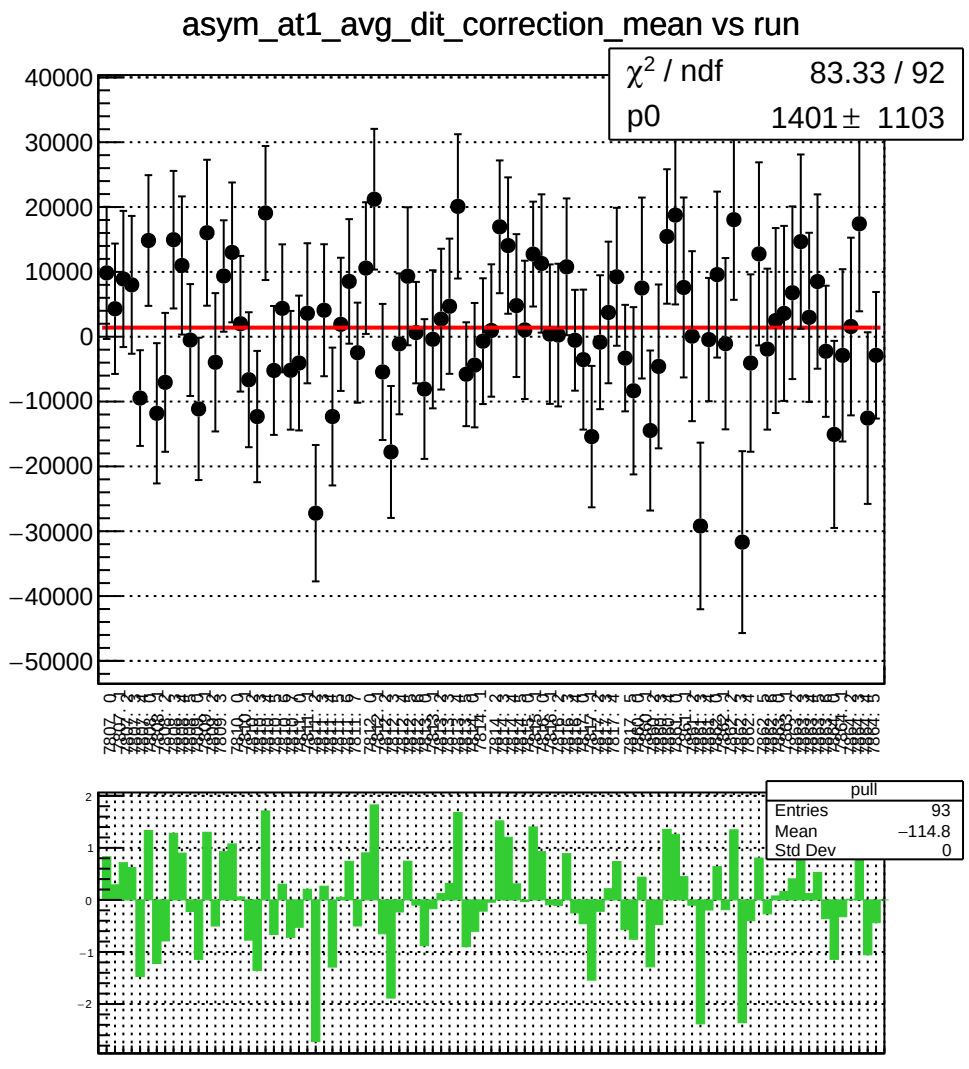

asym_at1_avg_eigen_cor_correction_mean vs run
χ² / ndf 83.88 / 92
p0 1409 ± 1193
pull
Entries 93
Mean −32.15
Std Dev 0
pull1D
Entries 93
Mean 0.01482
Std Dev 0.9496

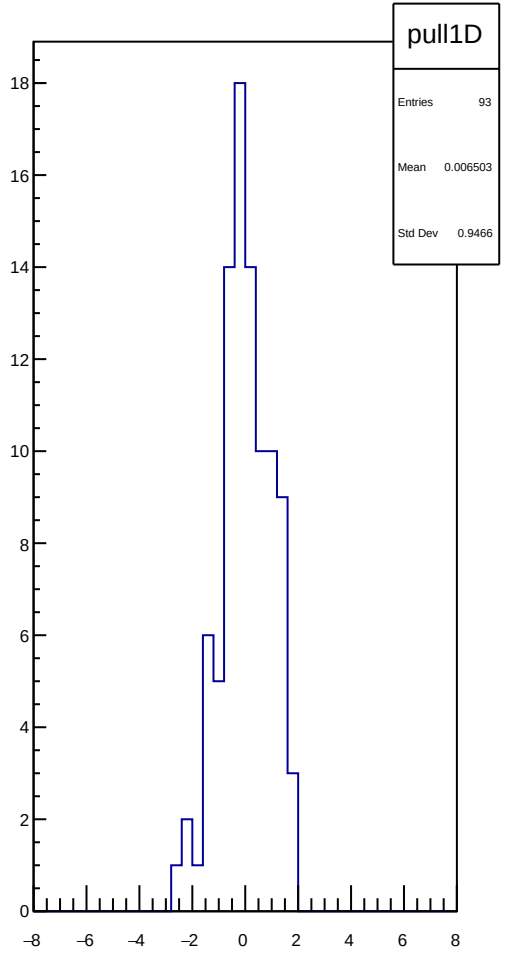

asym_at1_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.636e+04 / 92
p0 1136 ± 0.8434
1600
1500
1400
1300
1200
1100
1000
900

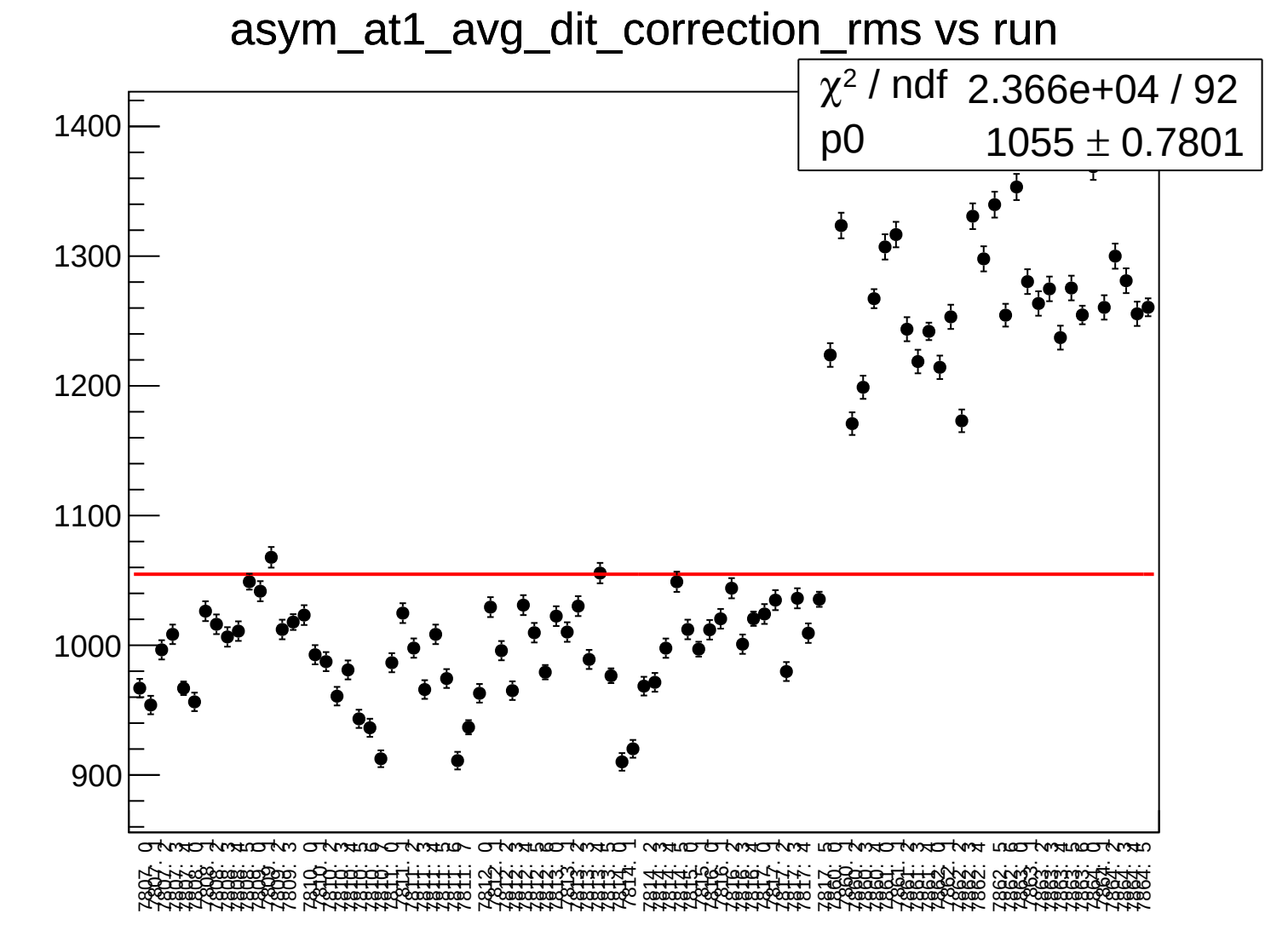

dit_asym_at1_avg_mean vs run
χ² / ndf 69.38 / 92
p0 −2658 ± 1900
pull
Entries 93
Mean 213.3
Std Dev 0

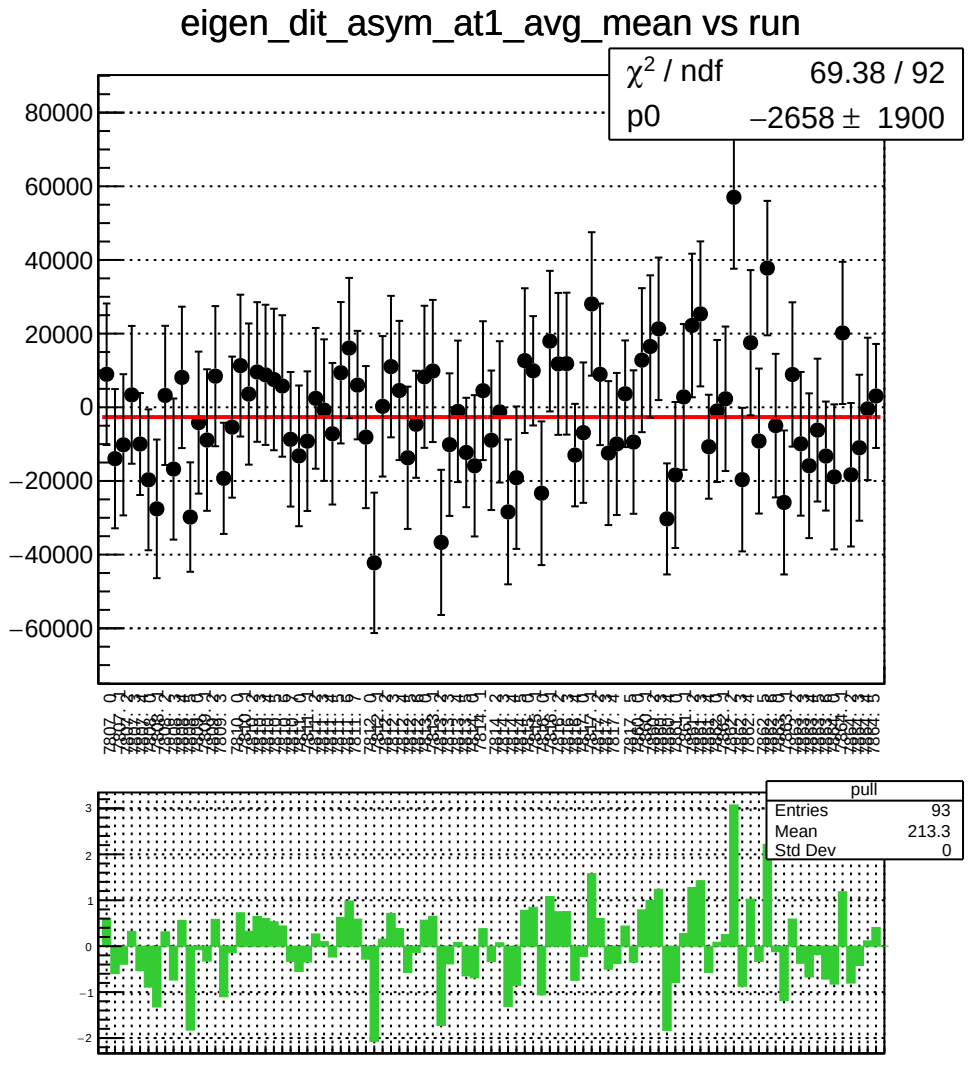

pull1D
Entries 93
Mean 0.0176
Std Dev 0.8635

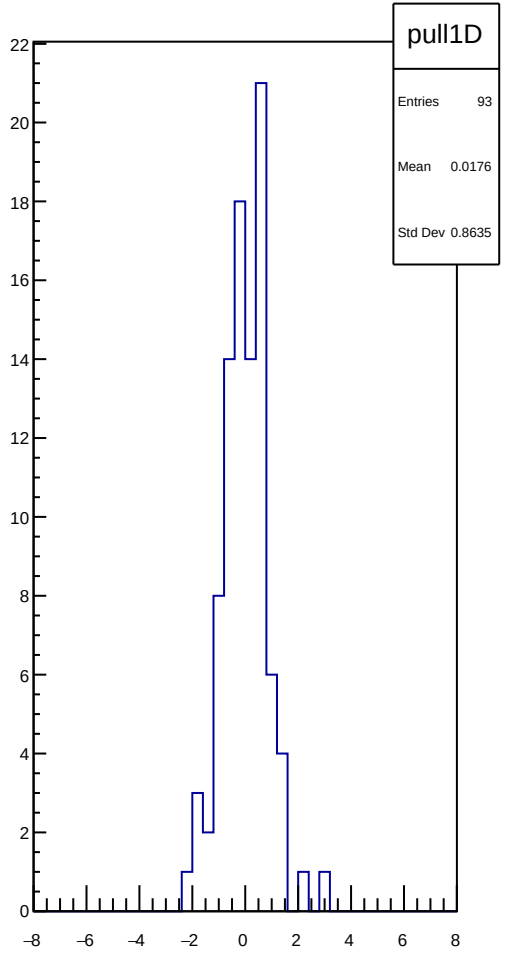

dit_asym_at1_avg_rms vs run
χ² / ndf 289.4 / 92
p0 1828 ± 1.343
1900
1880
1860
1840
1820
1800
1780
1760

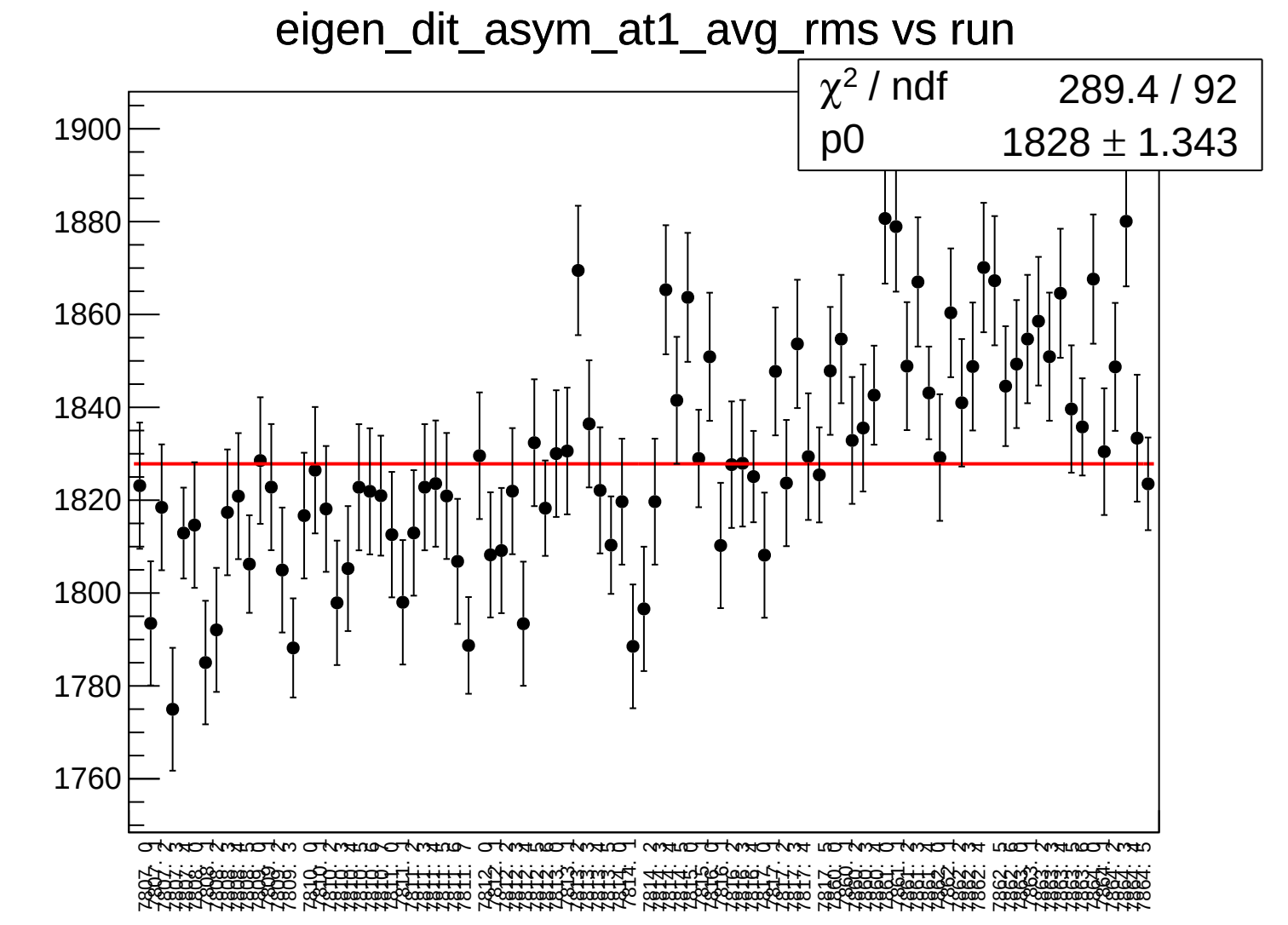

asym_at1_avg_dit_correction_mean vs run
χ² / ndf 83.33 / 92
p0 1401 ± 1103
pull
Entries 93
Mean −114.8
Std Dev 0

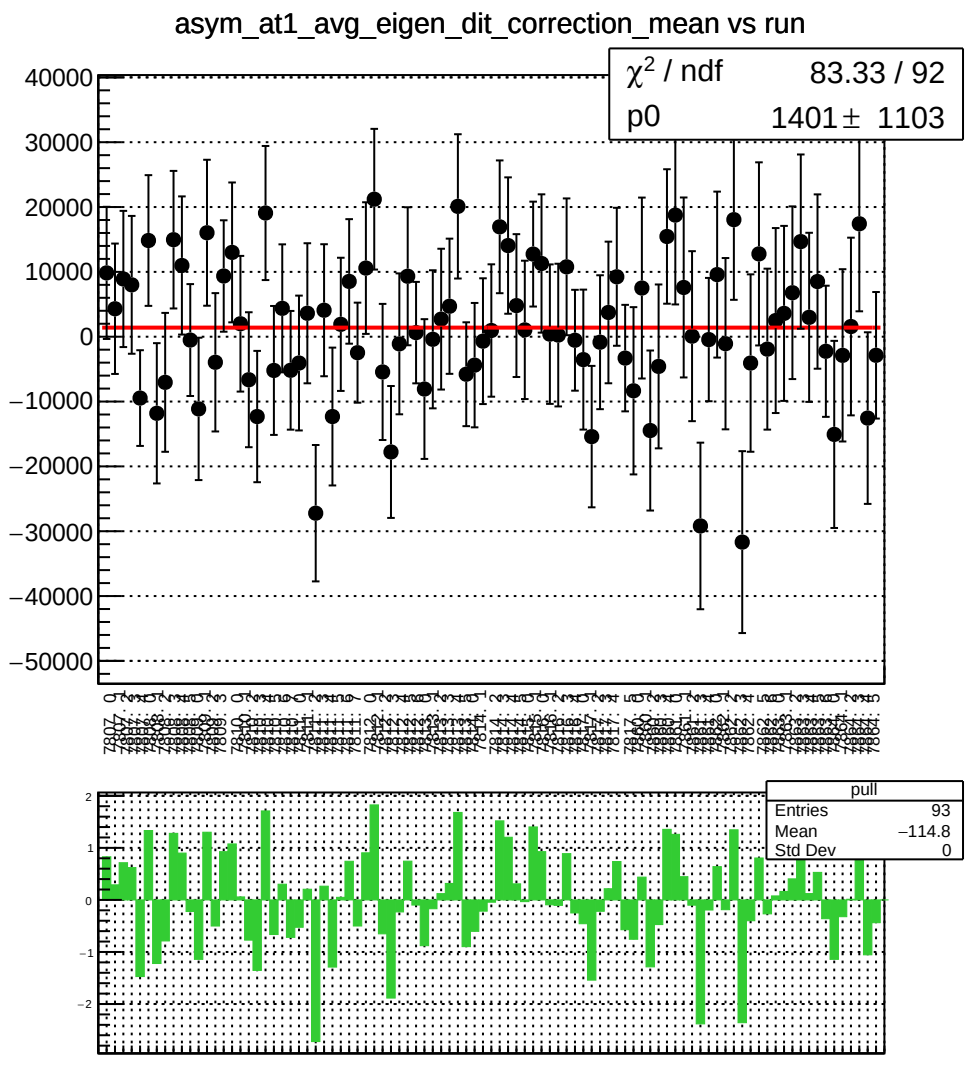

pull1D
Entries 93
Mean 0.006503
Std Dev 0.9466

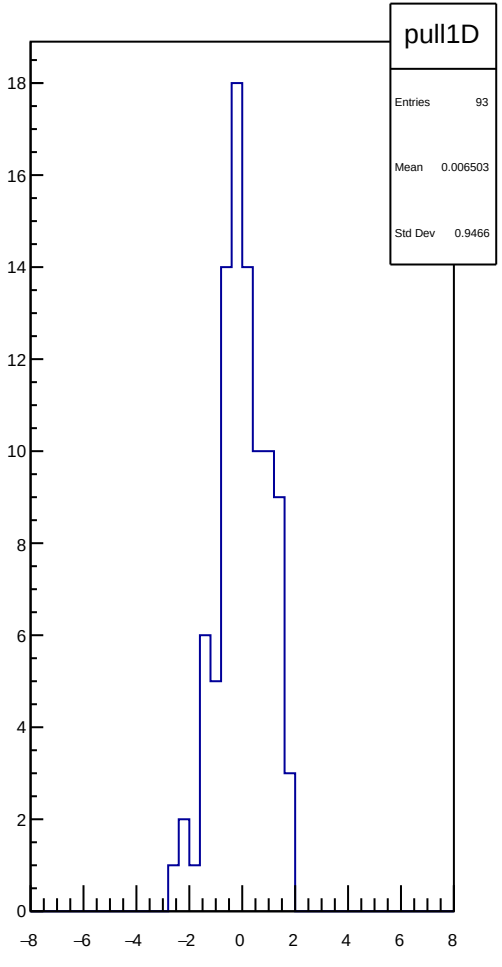

asym_at1_avg_dit_correction_rms vs run
χ² / ndf 2.366e+04 / 92
p0 1055 ± 0.7801
1400
1300
1200
1100
1000
900

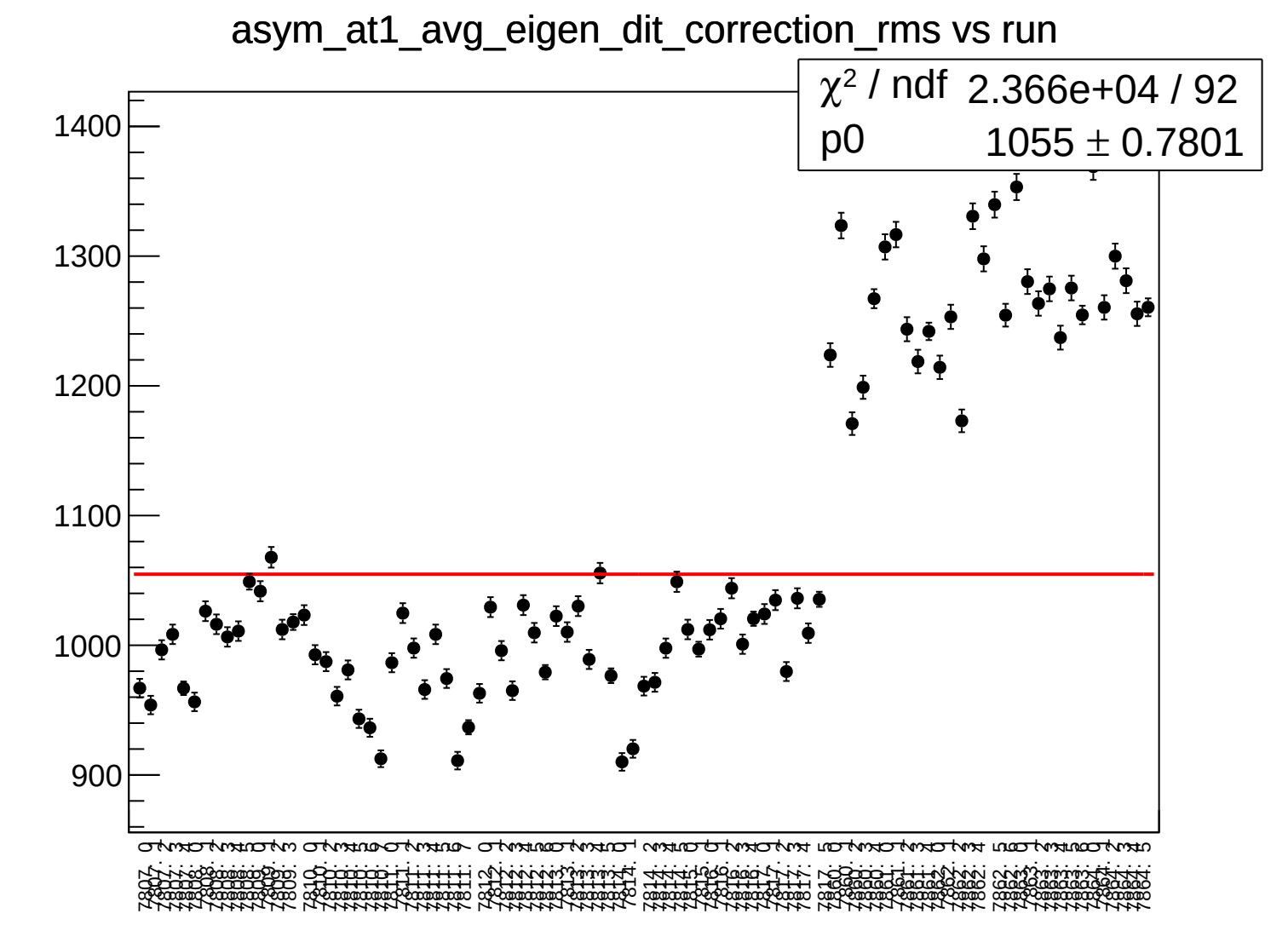

eigen_dit_asym_at1_avg_mean vs run
χ² / ndf 69.38 / 92
p0 −2658 ± 1900
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 213.3
Std Dev 0
3
2
1
0
−1
−2

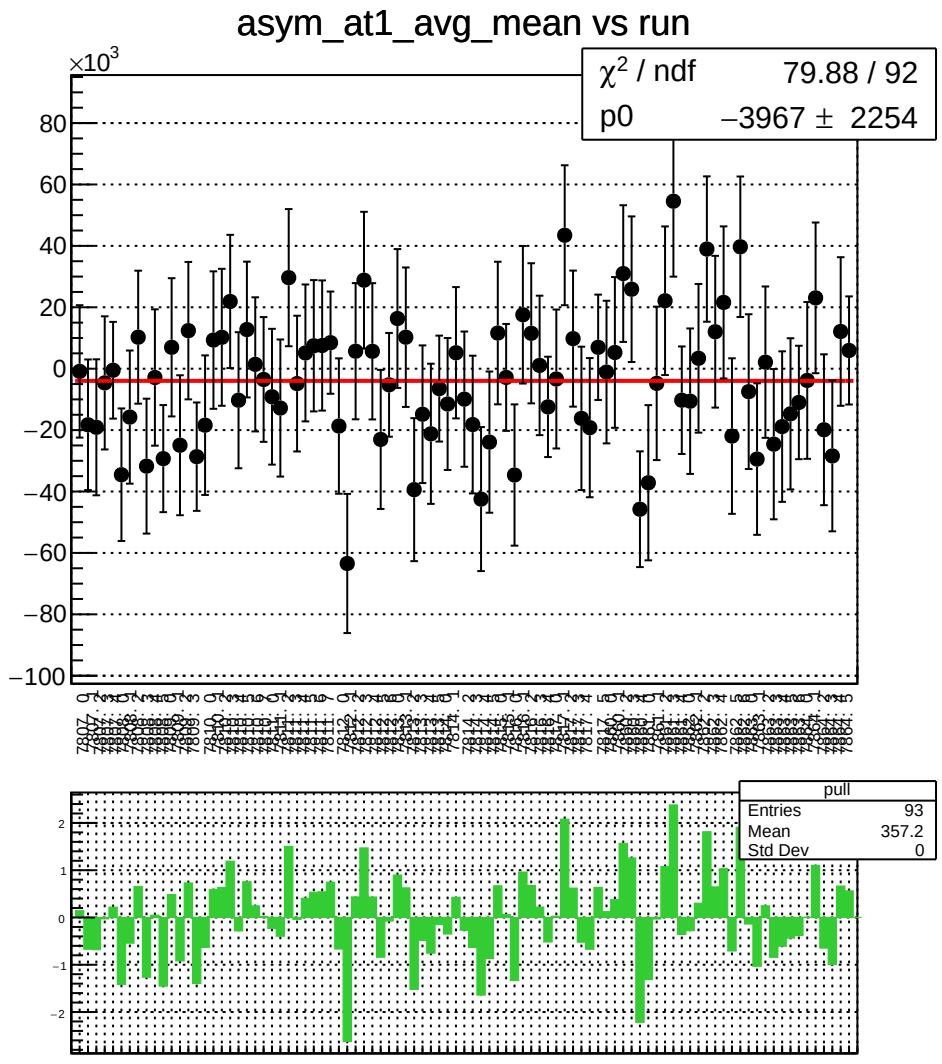

pull1D
Entries 93
Mean 0.0176
Std Dev 0.8635
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

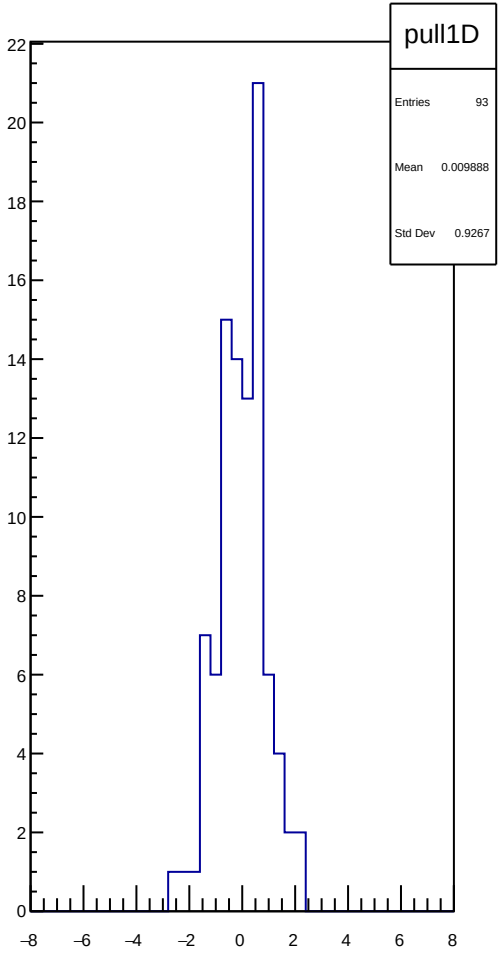

eigen_dit_asym_at1_avg_rms vs run
χ² / ndf 289.4 / 92
p0 1828 ± 1.343
1900
1880
1860
1840
1820
1800
1780
1760

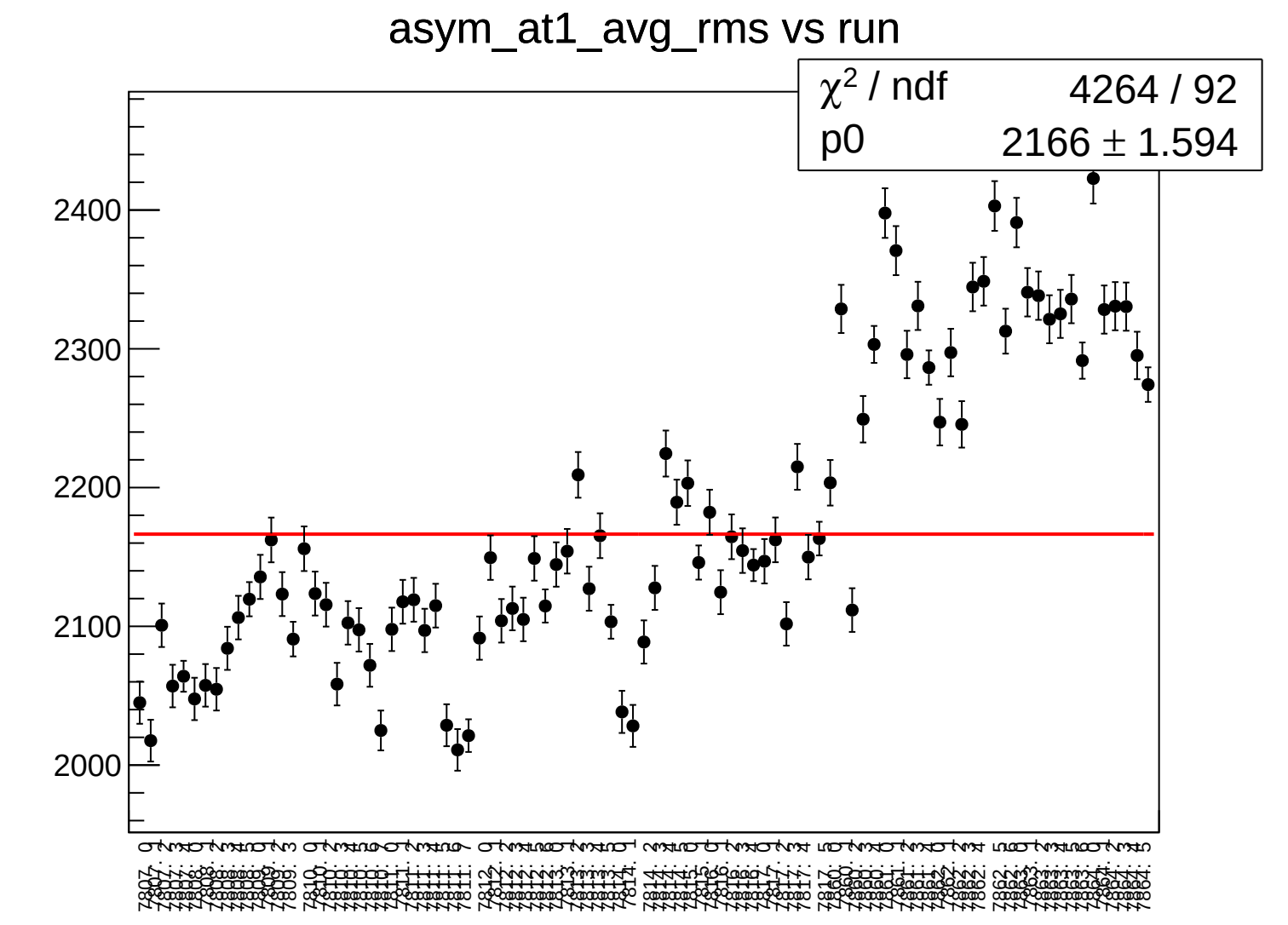

asym_at1_avg_eigen_dit_correction_mean vs run
χ² / ndf 83.33 / 92
p0 1401 ± 1103
pull
Entries 93
Mean −114.8
Std Dev 0

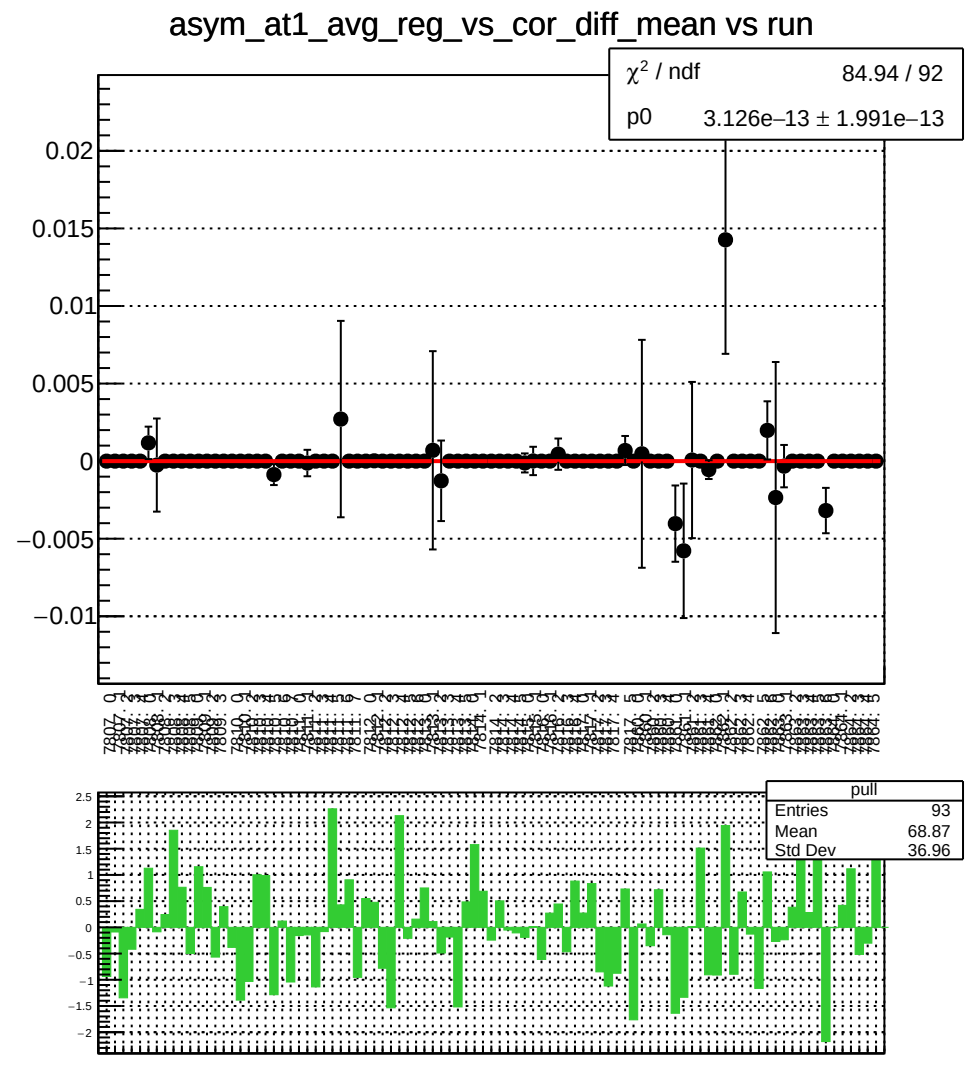

pull1D
Entries 93
Mean 0.006503
Std Dev 0.9466

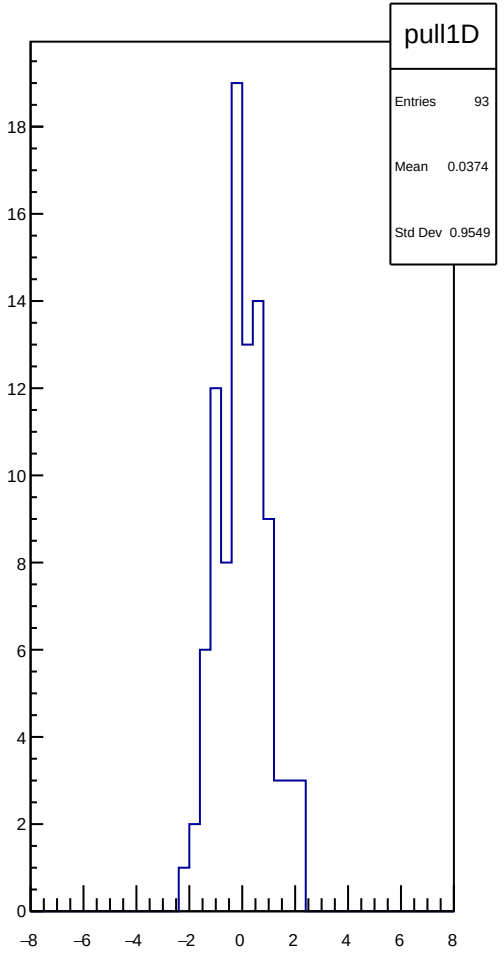

asym_at1_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.366e+04 / 92
p0 1055 ± 0.7801
1400
1300
1200
1100
1000
900

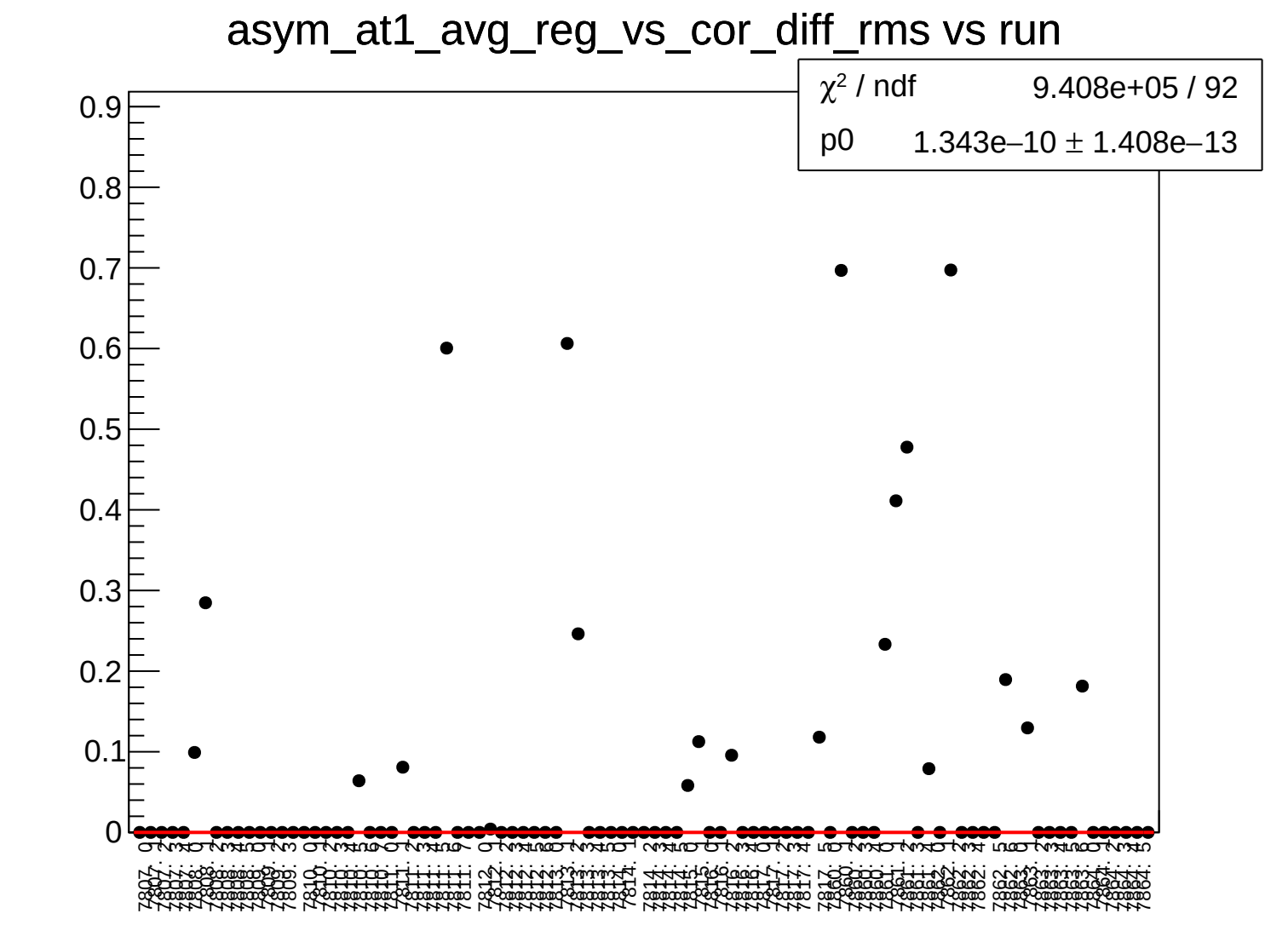

asym_at1_avg_mean vs run
×10^3
χ^2 / ndf 79.88 / 92
p0 −3967 ± 2254
pull
Entries 93
Mean 357.2
Std Dev 0

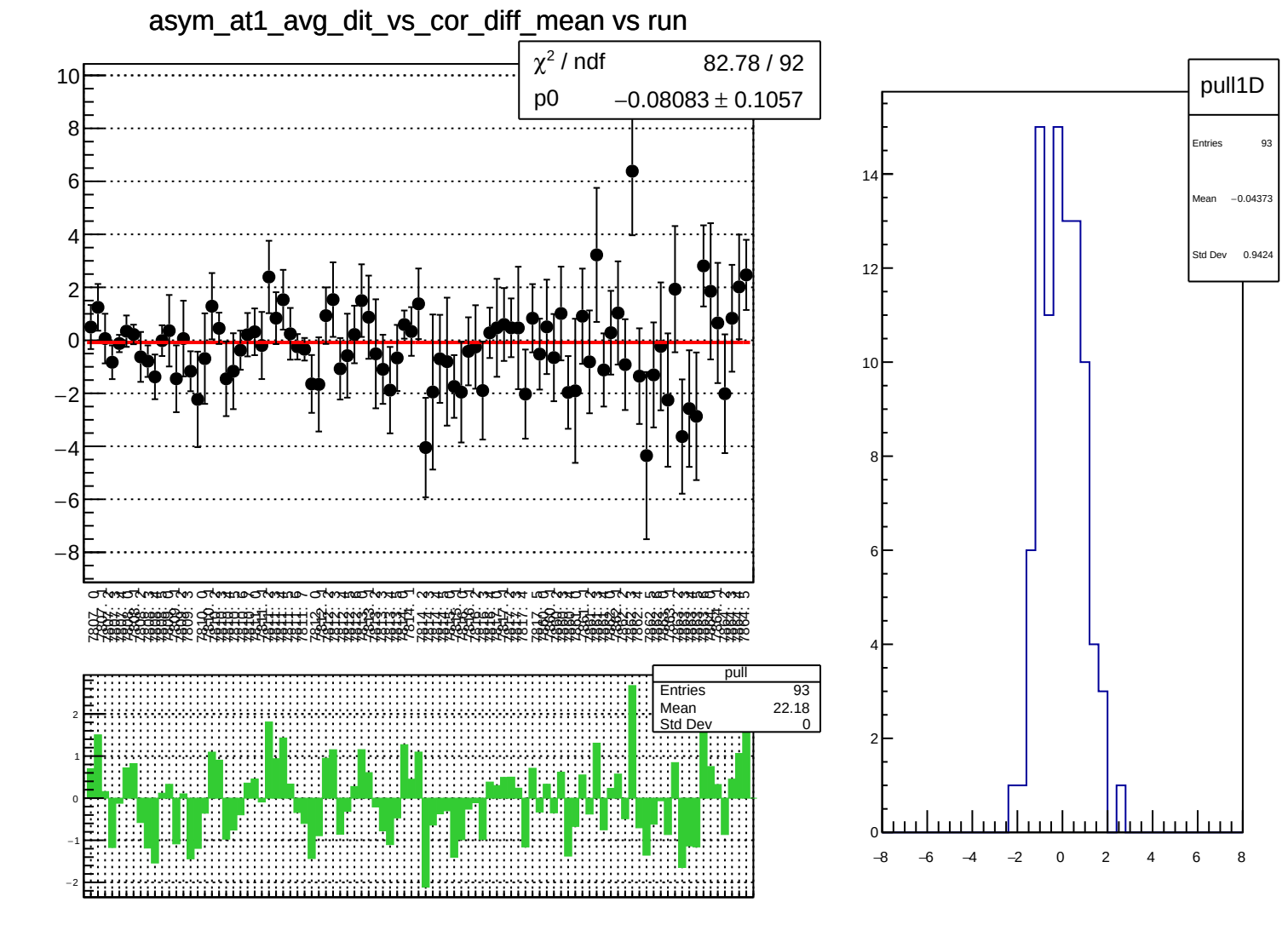

pull1D
Entries 93
Mean 0.009888
Std Dev 0.9267

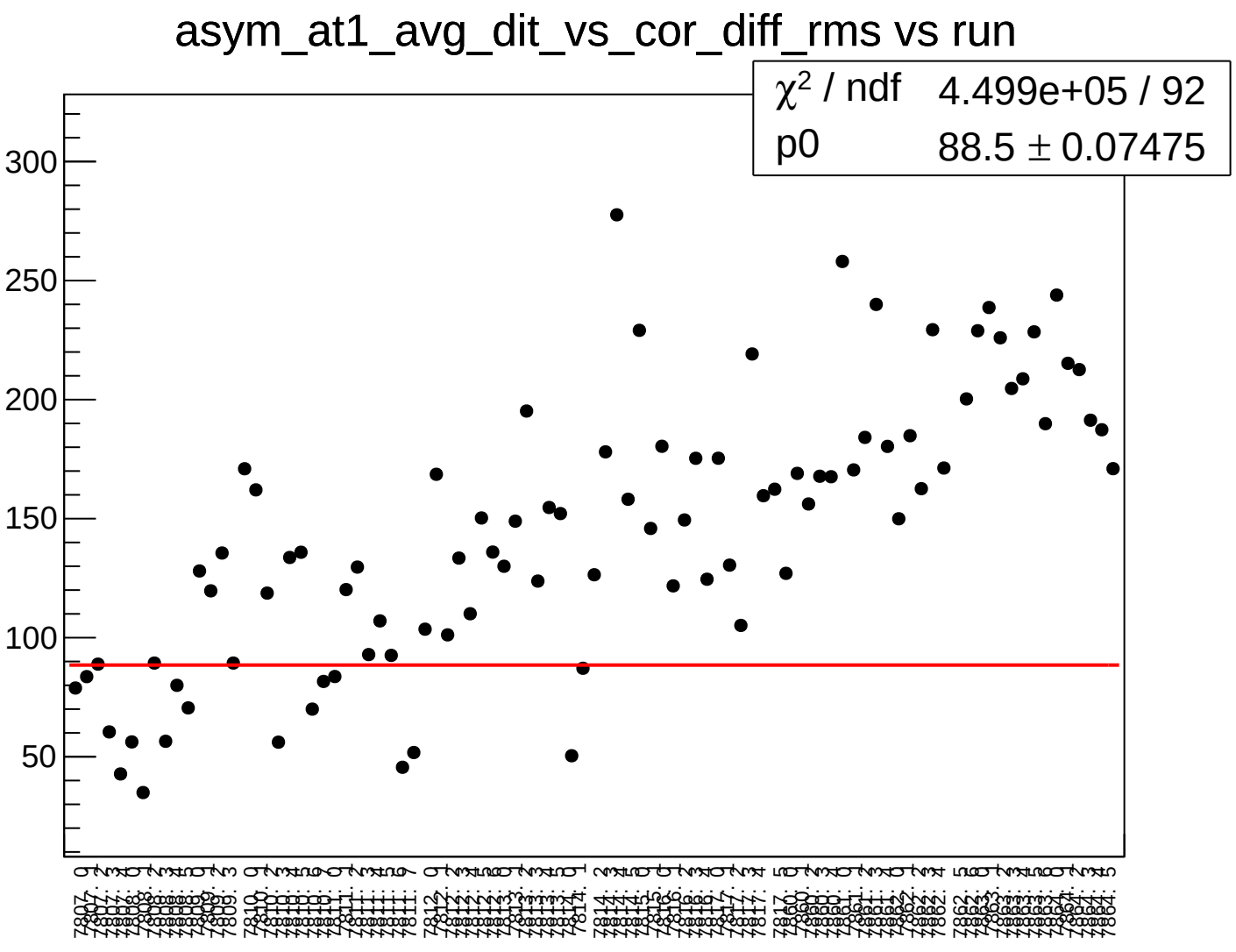

asym_at1_avg_rms vs run
χ² / ndf 4264 / 92
p0 2166 ± 1.594
2400
2300
2200
2100
2000

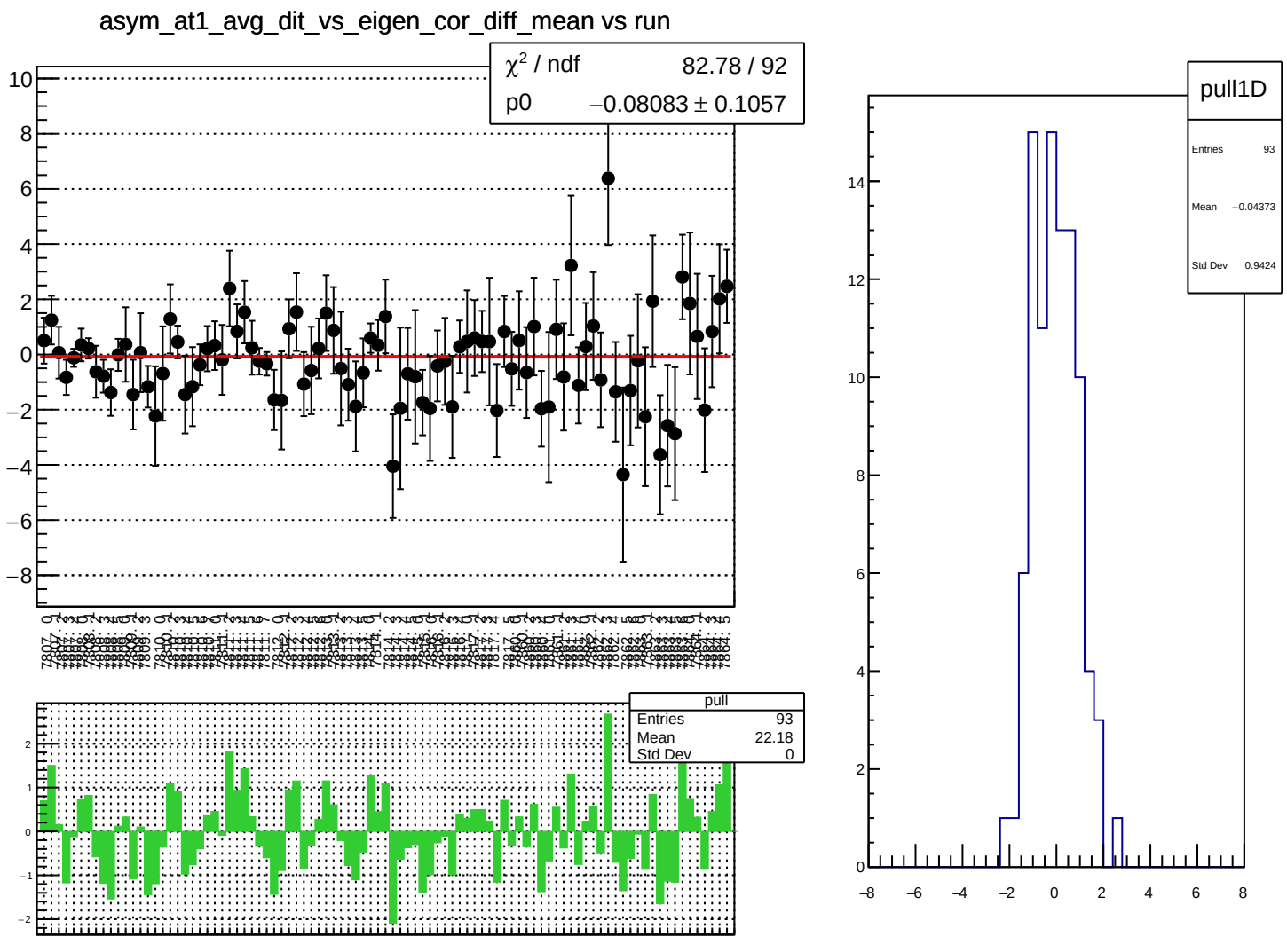

asym_at1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 84.94 / 92
p0 3.126e−13 ± 1.991e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 93
Mean 68.87
Std Dev 36.96
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

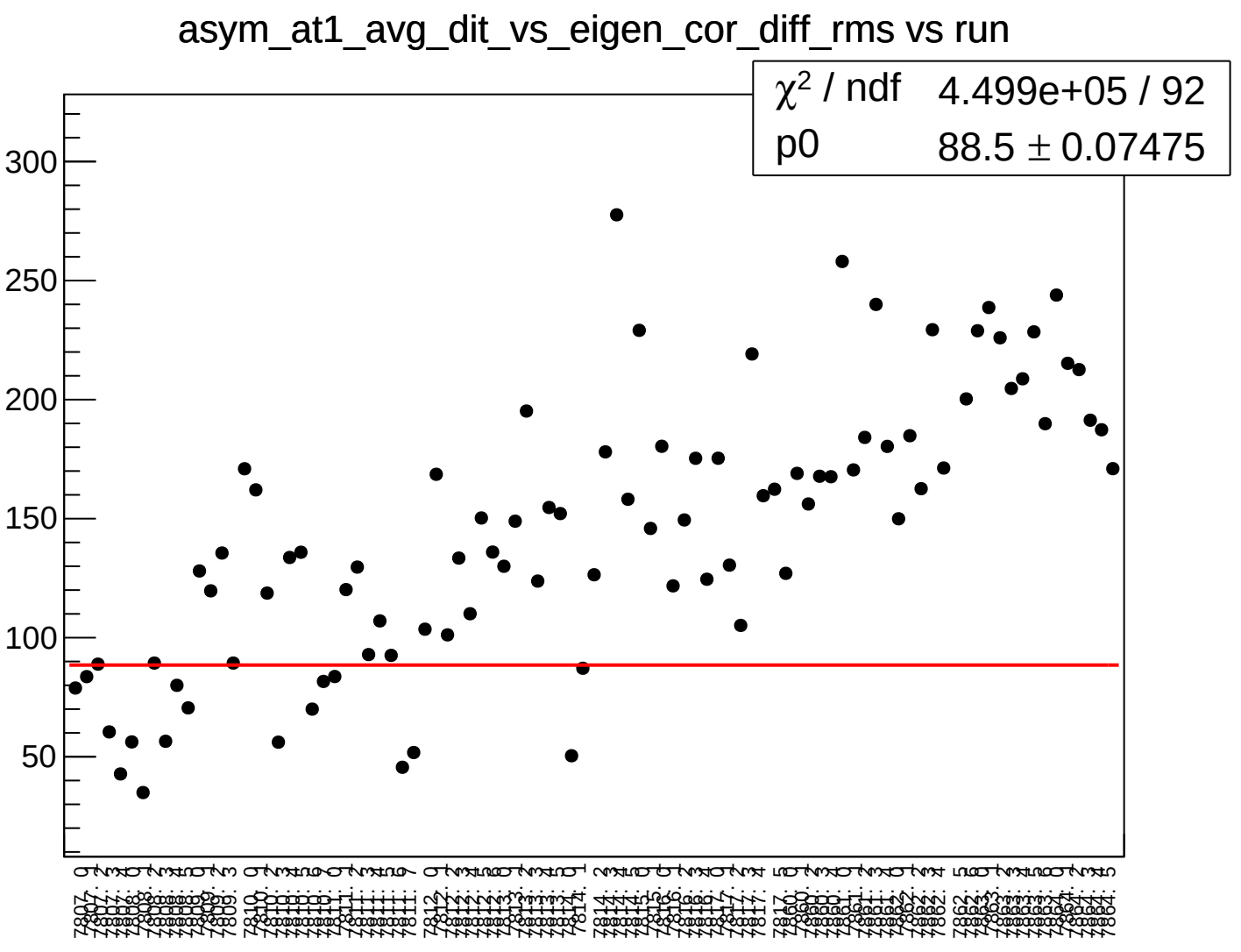

pull1D
Entries 93
Mean 0.0374
Std Dev 0.9549
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

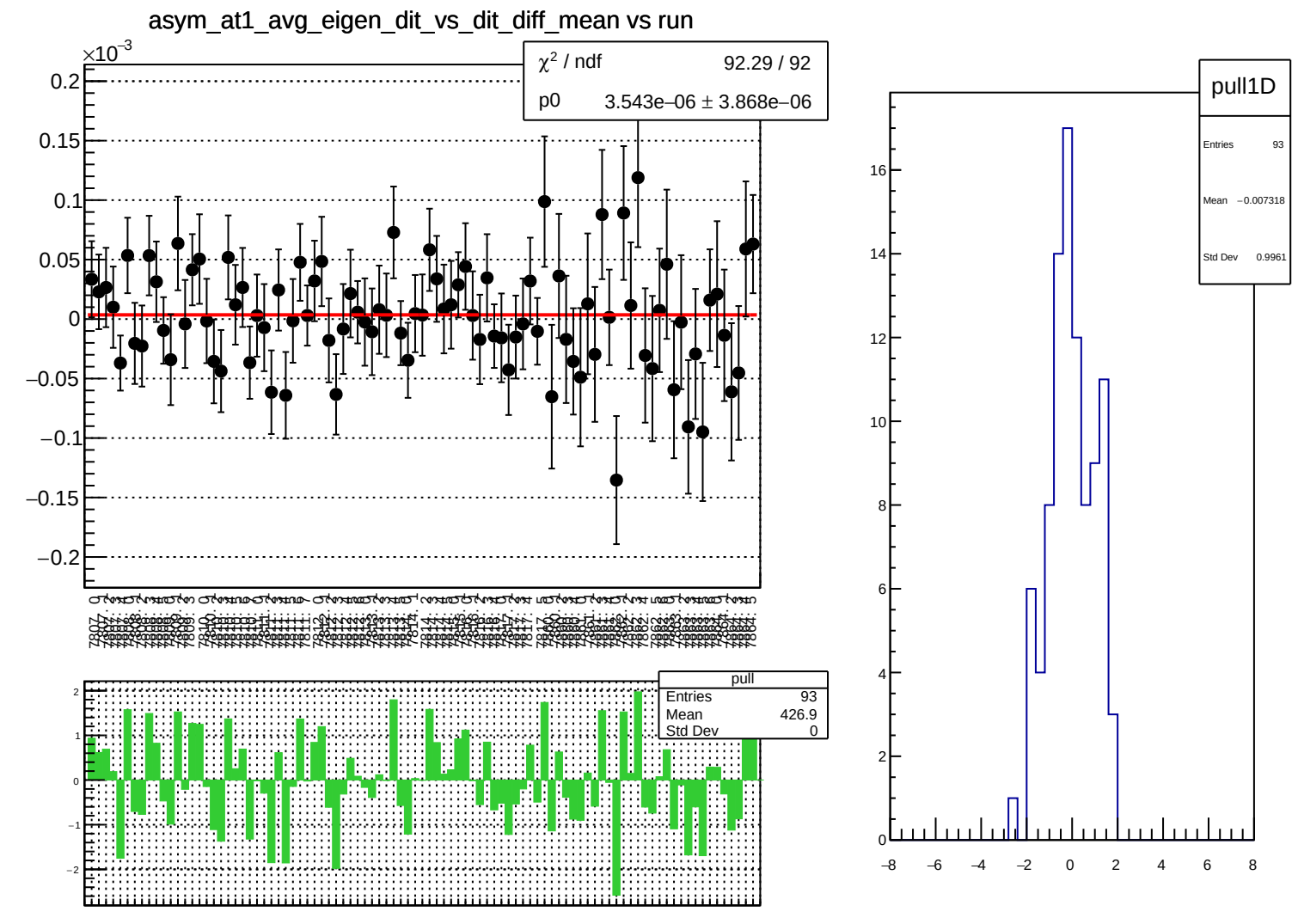

asym_at1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.408e+05 / 92
p0 1.343e−10 ± 1.408e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

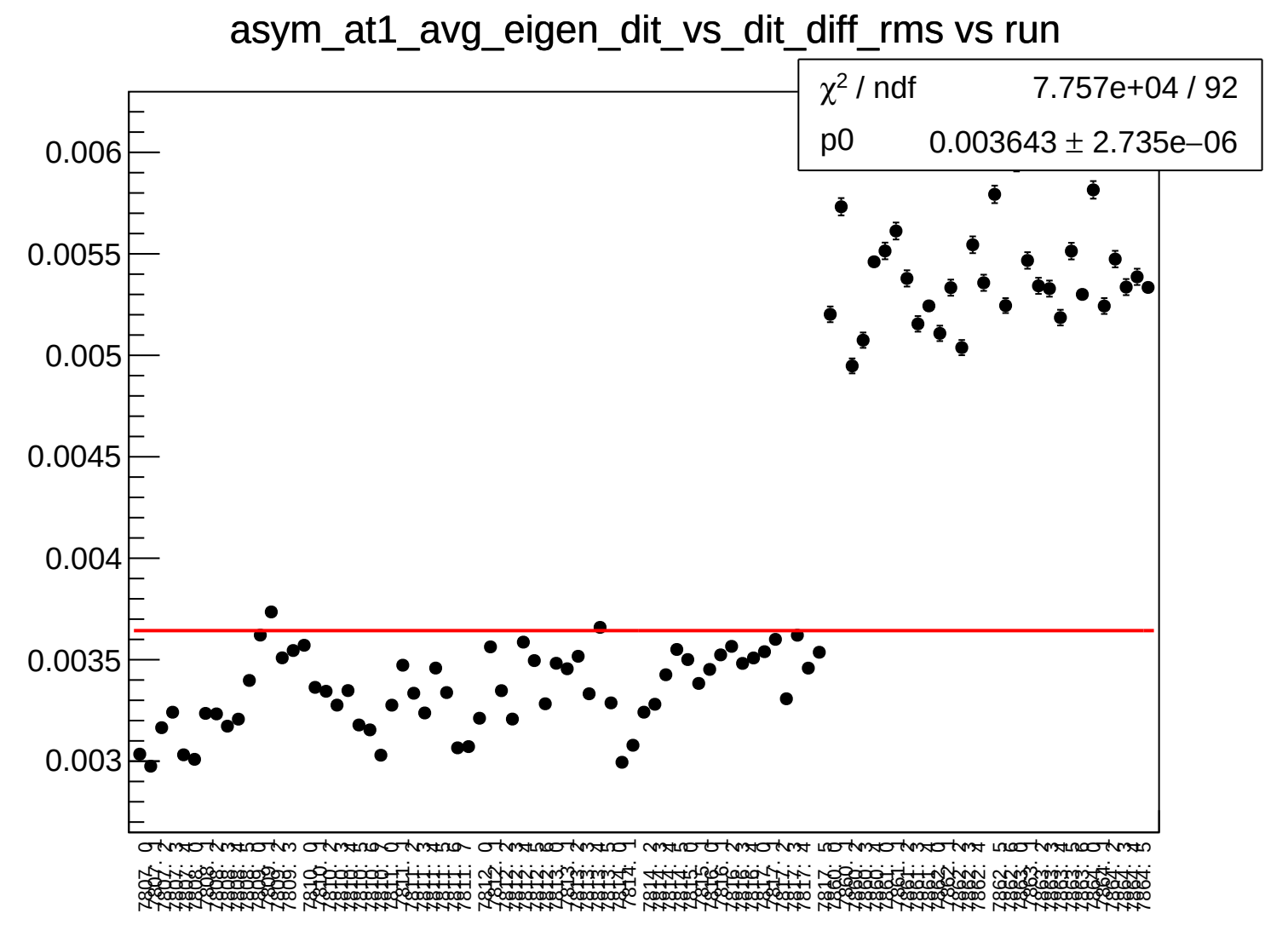

asym_at1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 82.78 / 92
p0 −0.08083 ± 0.1057
pull
Entries 93
Mean 22.18
Std Dev 0
pull1D
Entries 93
Mean −0.04373
Std Dev 0.9424

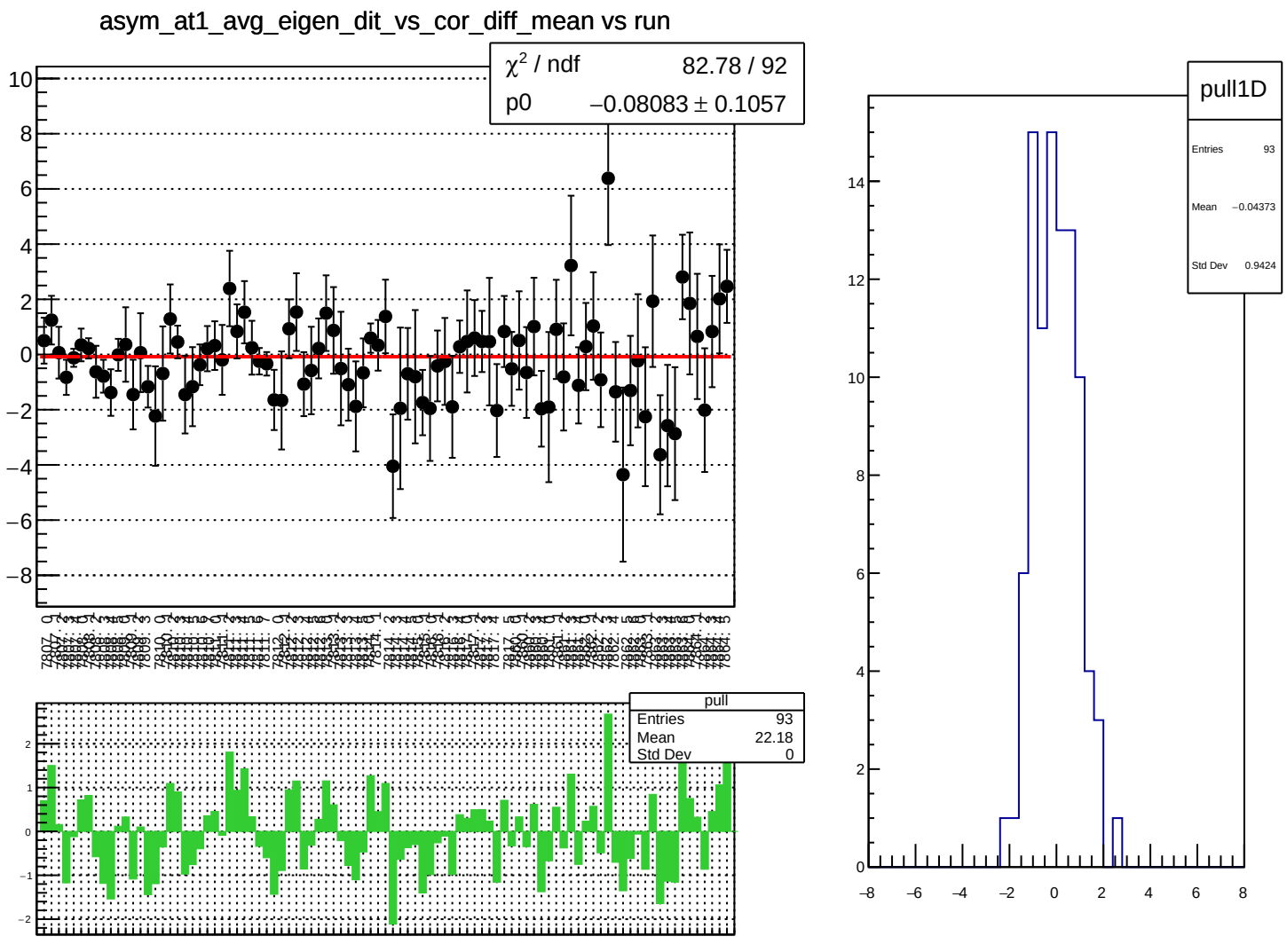

asym_at1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.499e+05 / 92
p0 88.5 ± 0.07475
300
250
200
150
100
50

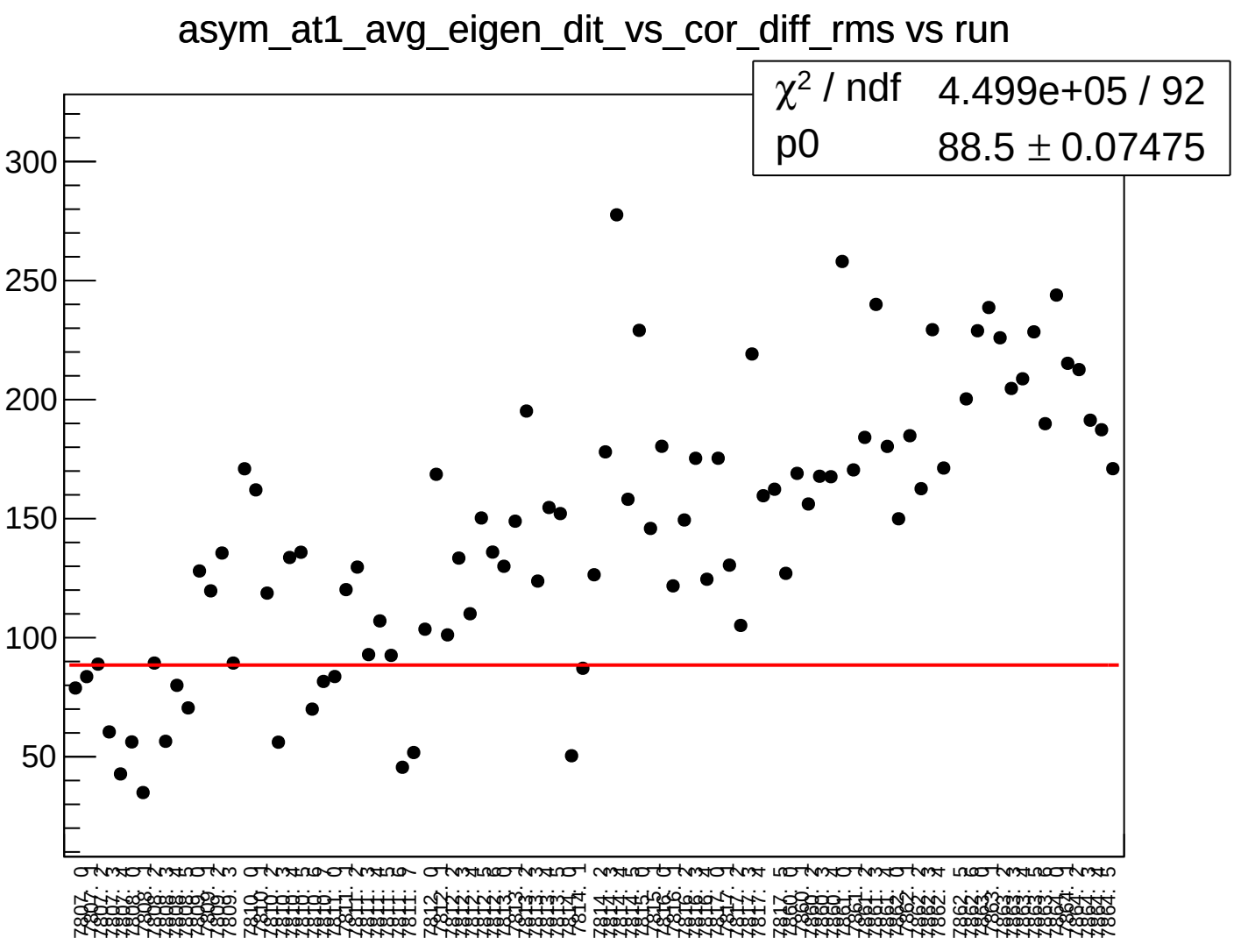

asym_at1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.78 / 92
p0 −0.08083 ± 0.1057
pull
Entries 93
Mean 22.18
Std Dev 0
pull1D
Entries 93
Mean −0.04373
Std Dev 0.9424

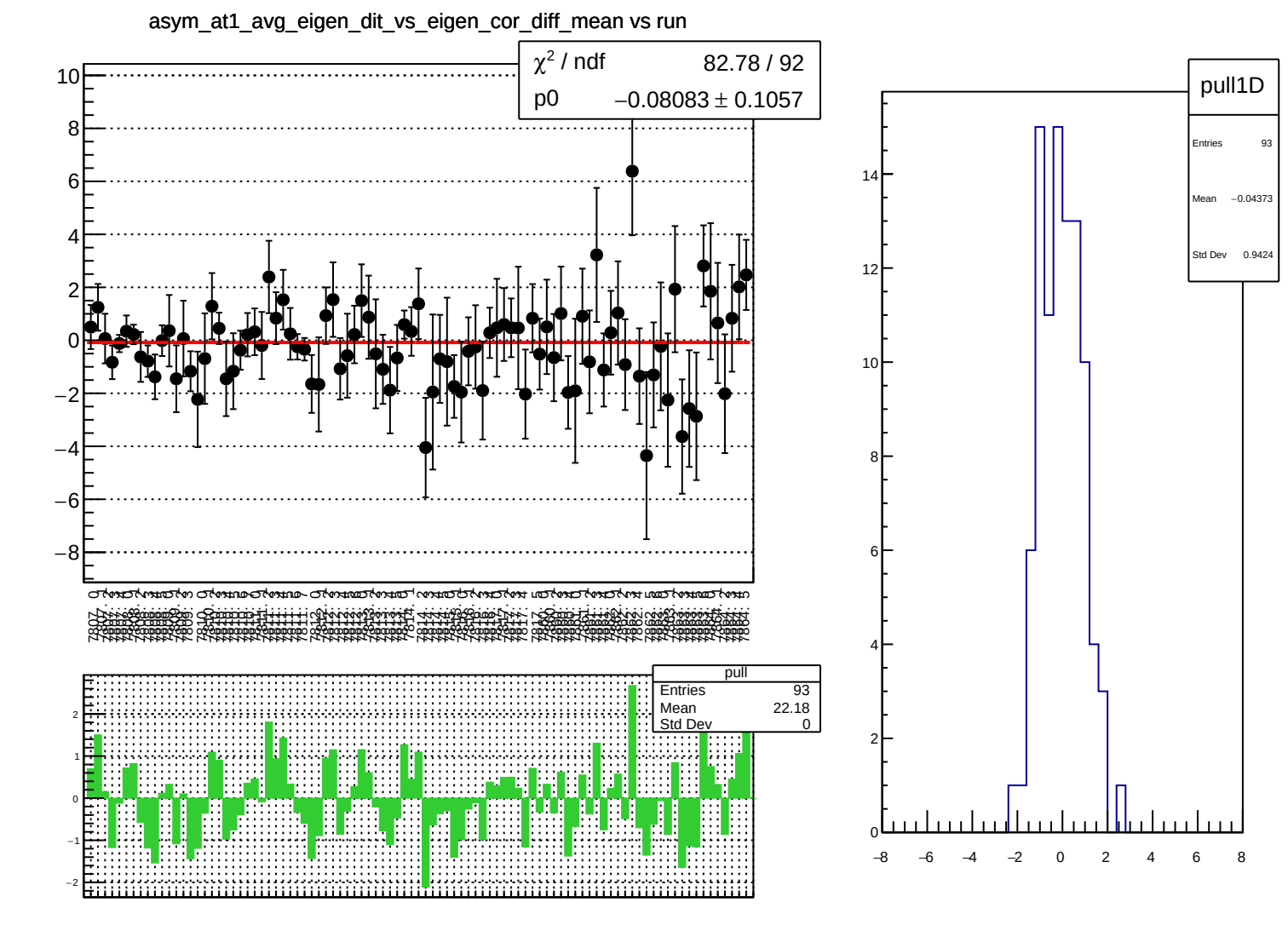

asym_at1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.499e+05 / 92
p0 88.5 ± 0.07475
300
250
200
150
100
50

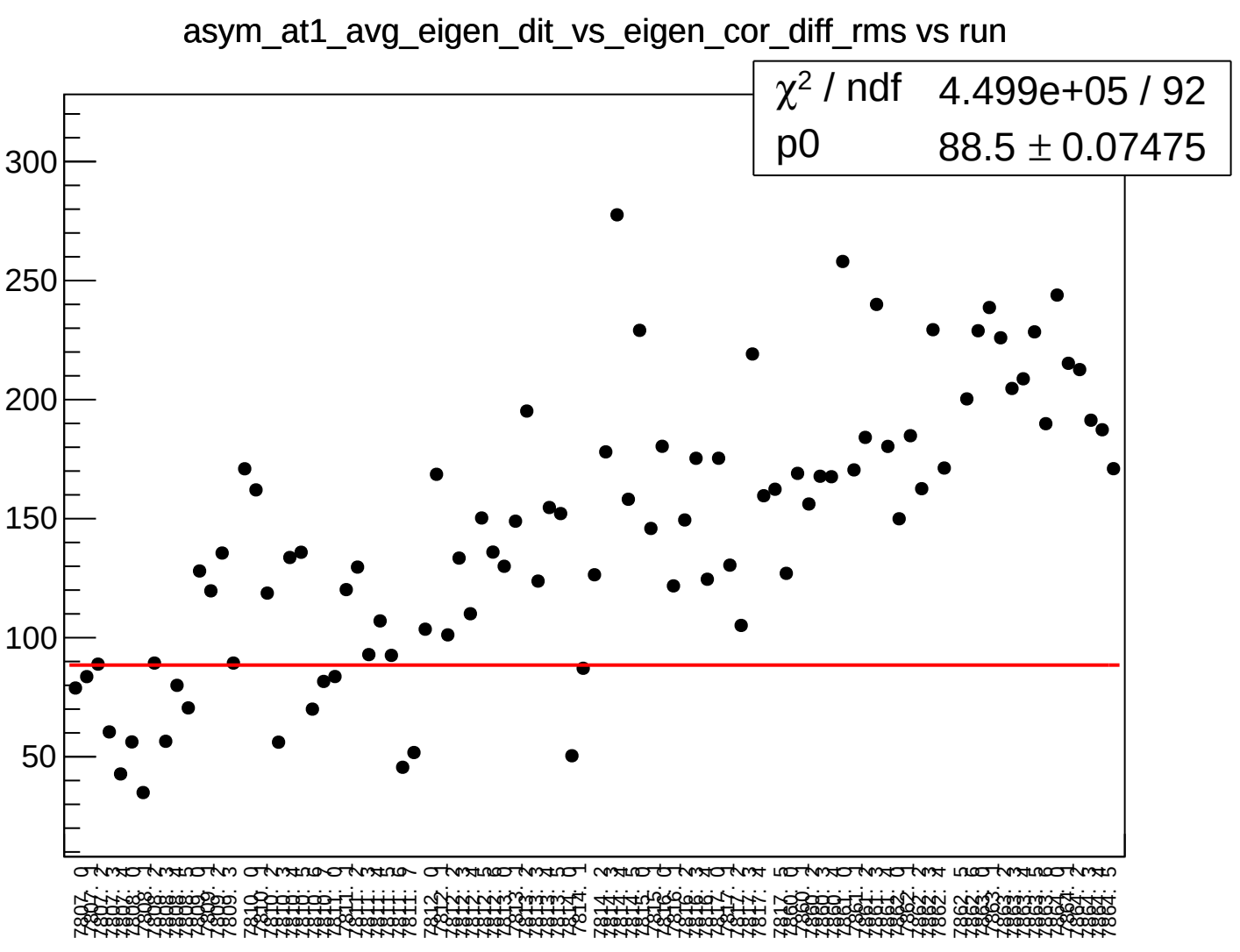

asym_at1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.29 / 92
p0 3.543e−06 ± 3.868e−06
pull
Entries 93
Mean 426.9
Std Dev 0
pull1D
Entries 93
Mean −0.007318
Std Dev 0.9961

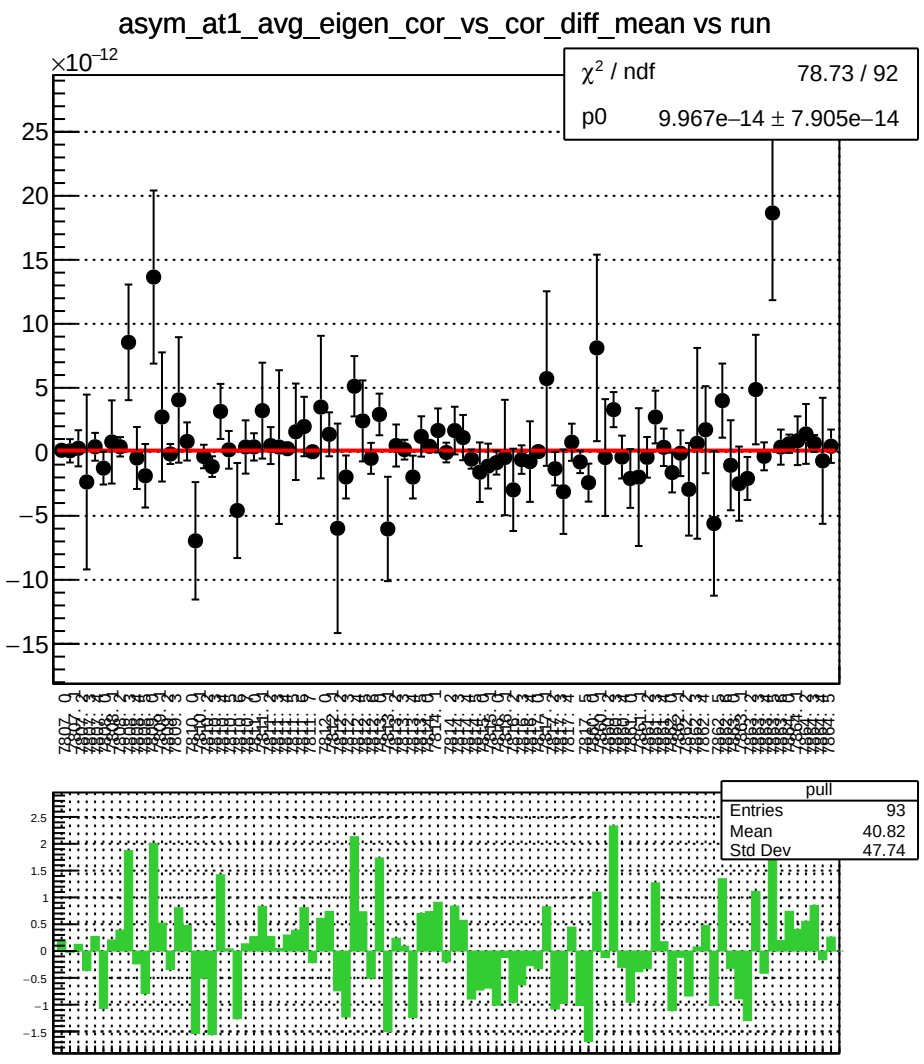

asym_at1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.757e+04 / 92
p0 0.003643 ± 2.735e−06
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003

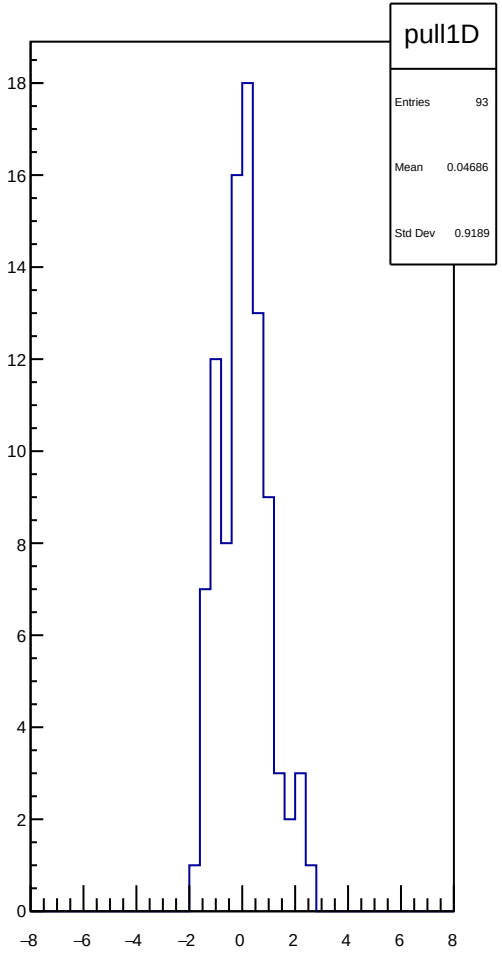

asym_at1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.78 / 92
p0 −0.08083 ± 0.1057
pull
Entries 93
Mean 22.18
Std Dev 0
pull1D
Entries 93
Mean −0.04373
Std Dev 0.9424

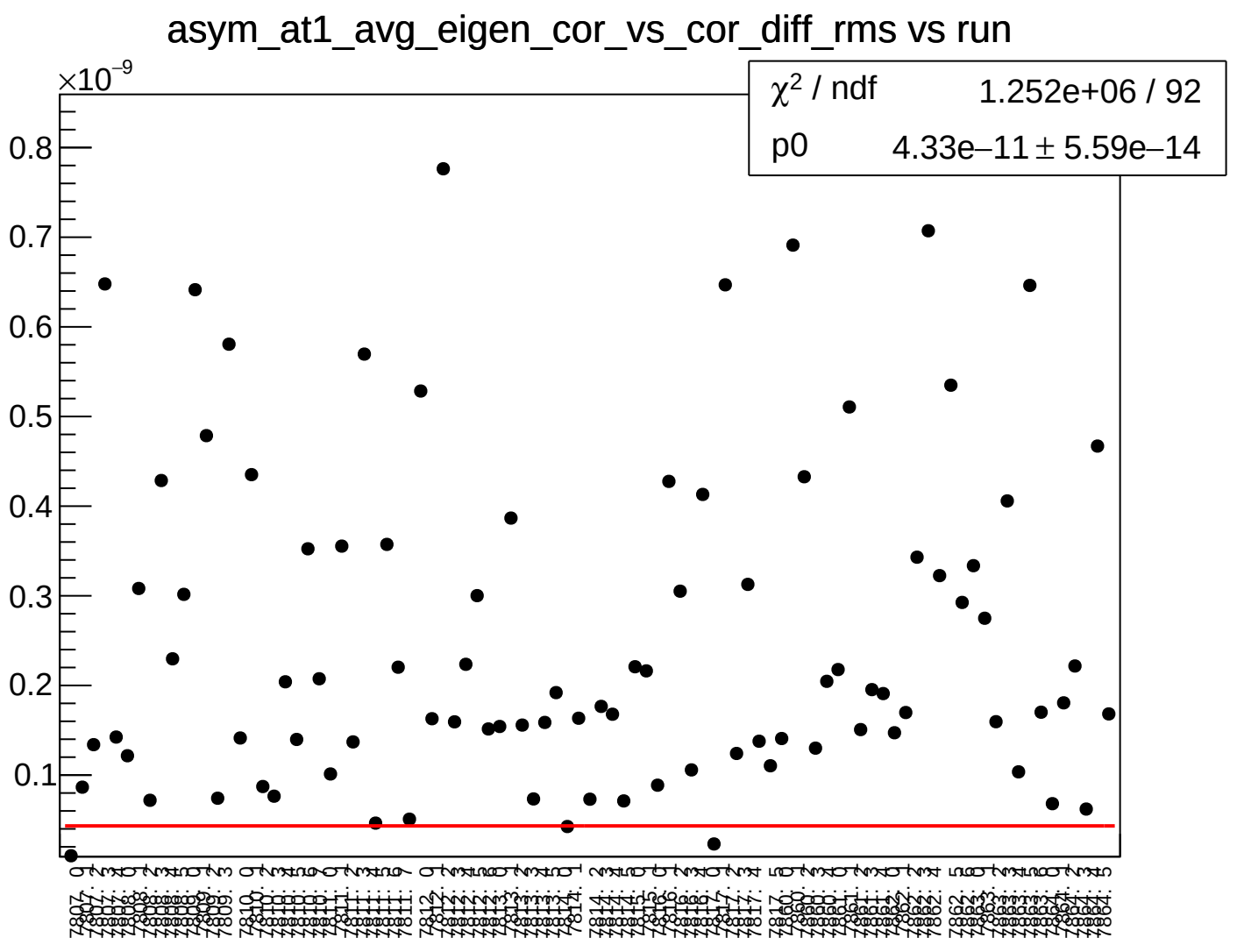

asym_at1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.499e+05 / 92
p0 88.5 ± 0.07475
300
250
200
150
100
50

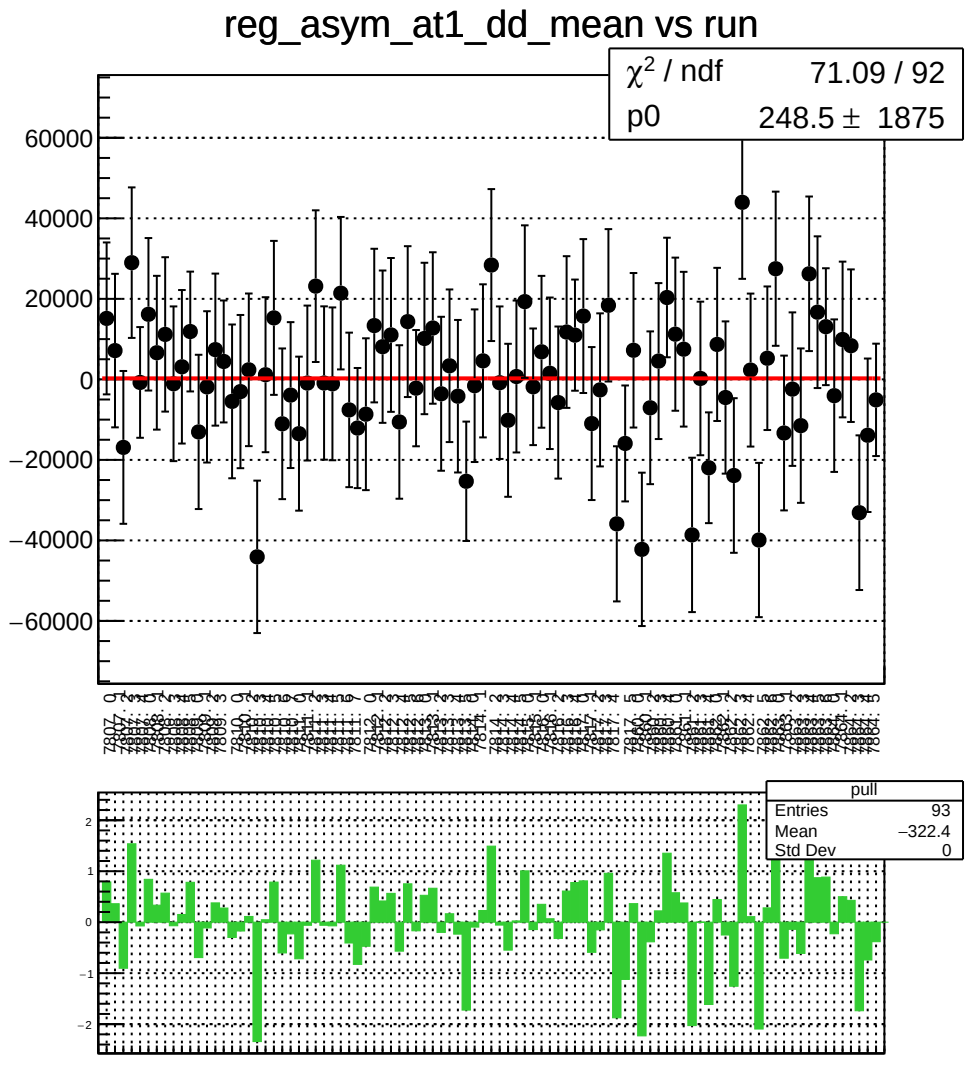

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.78 / 92
p0 −0.08083 ± 0.1057
pull
Entries 93
Mean 22.18
Std Dev 0
pull1D
Entries 93
Mean −0.04373
Std Dev 0.9424

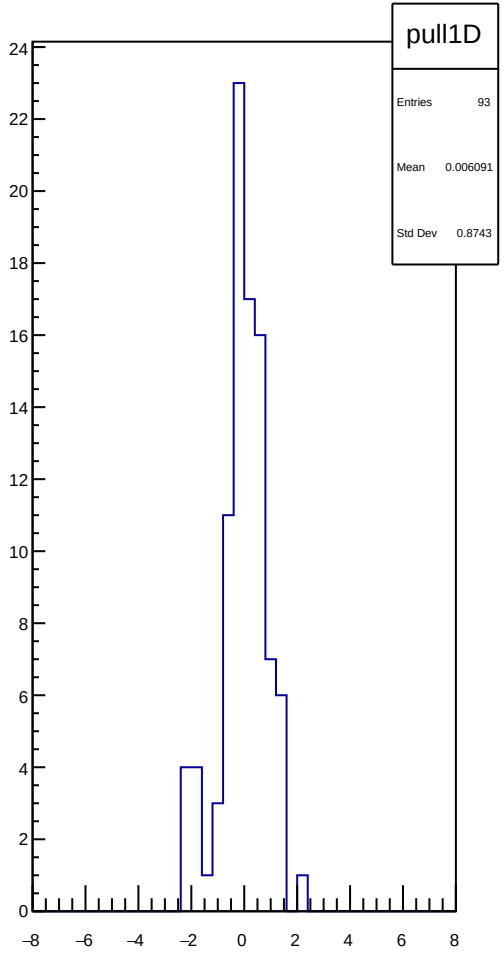

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.499e+05 / 92
p0 88.5 ± 0.07475
300
250
200
150
100
50

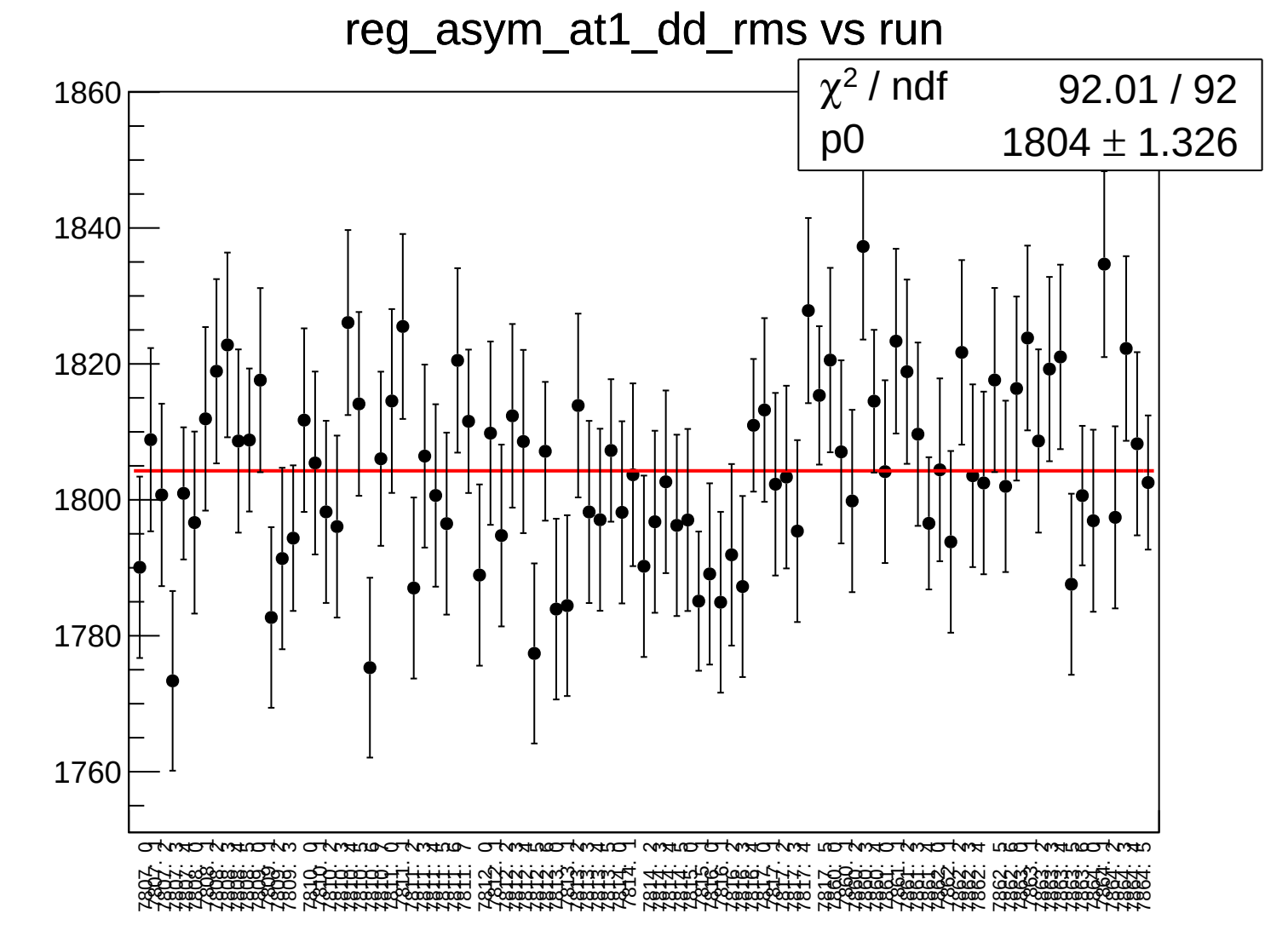

asym_at1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.73 / 92
p0 9.967e−14 ± 7.905e−14
pull
Entries 93
Mean 40.82
Std Dev 47.74

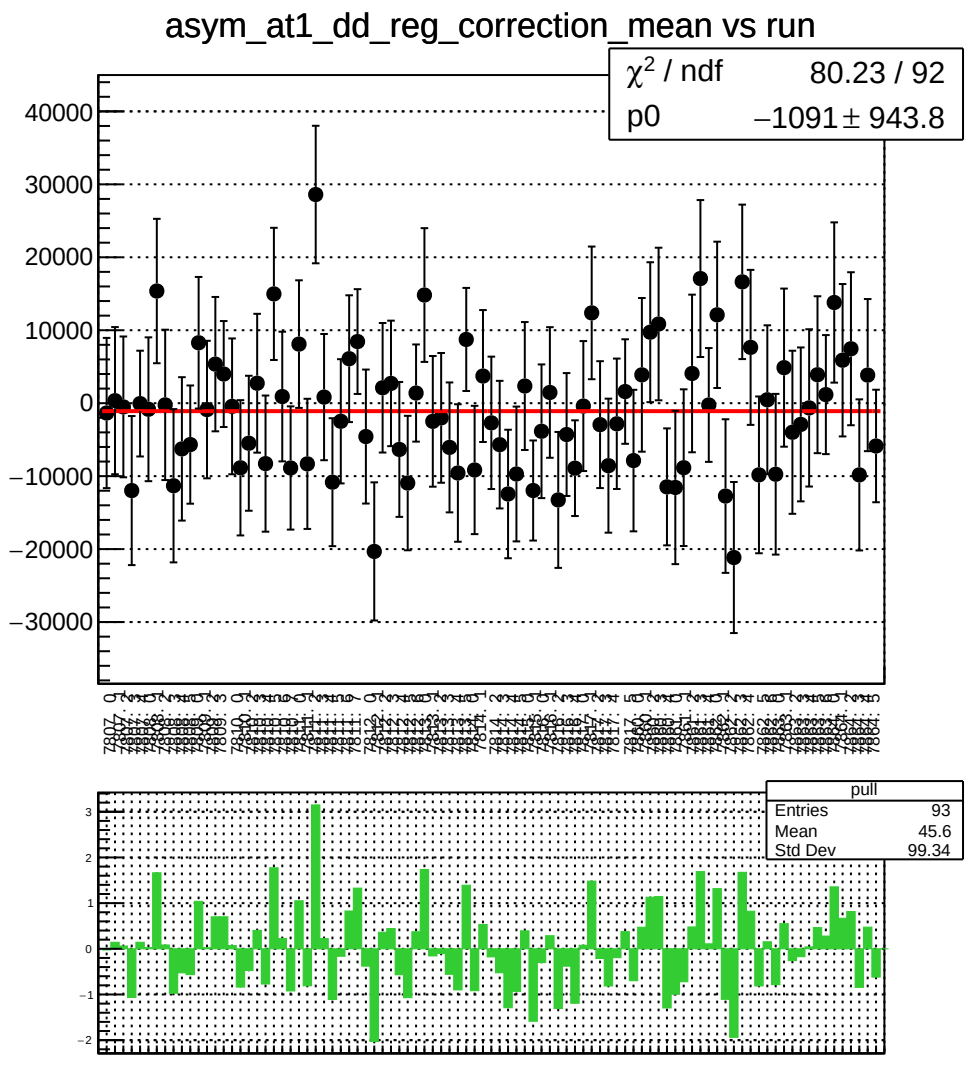

pull1D
Entries 93
Mean 0.04686
Std Dev 0.9189

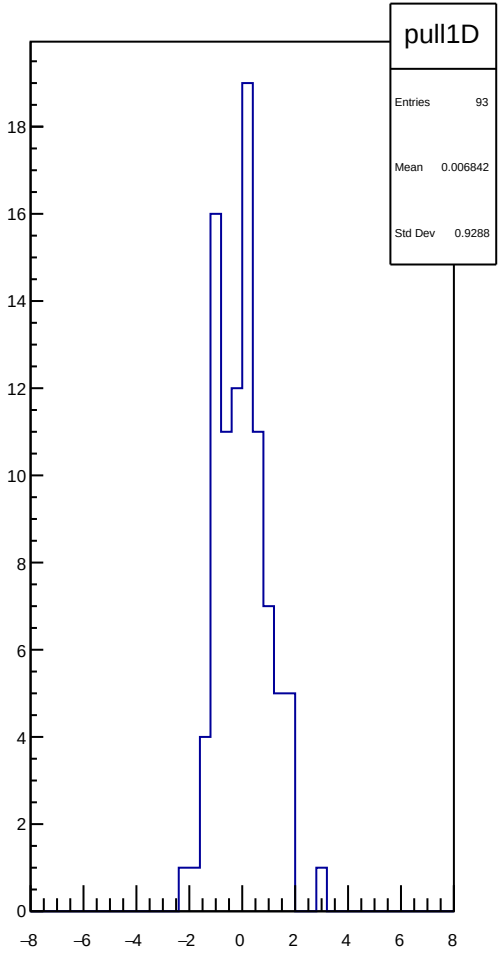

asym_at1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.252e+06 / 92
p0 4.33e−11 ± 5.59e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

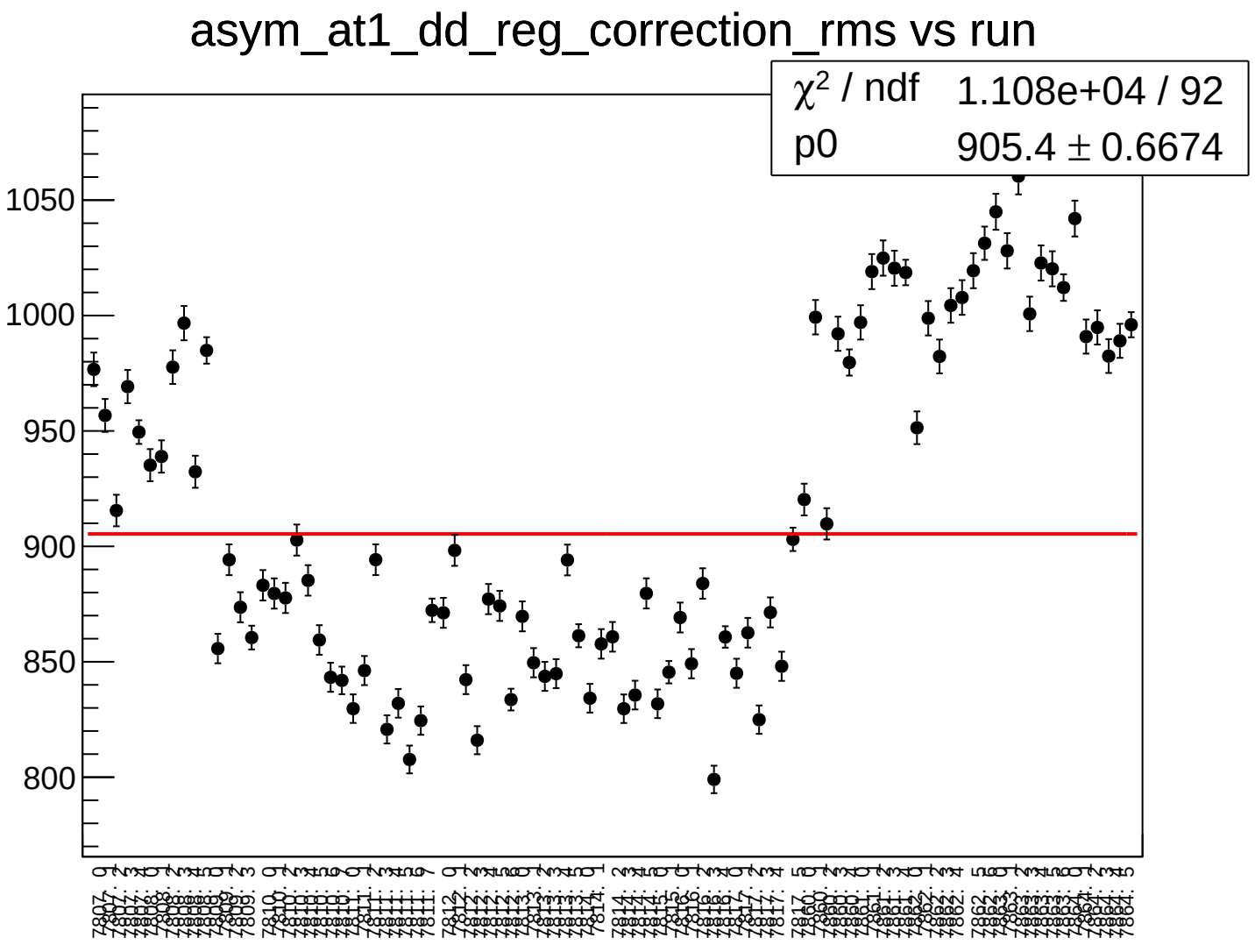

reg_asym_at1_dd_mean vs run
χ² / ndf 71.09 / 92
p0 248.5 ± 1875
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −322.4
Std Dev 0
2
1
0
−1
−2

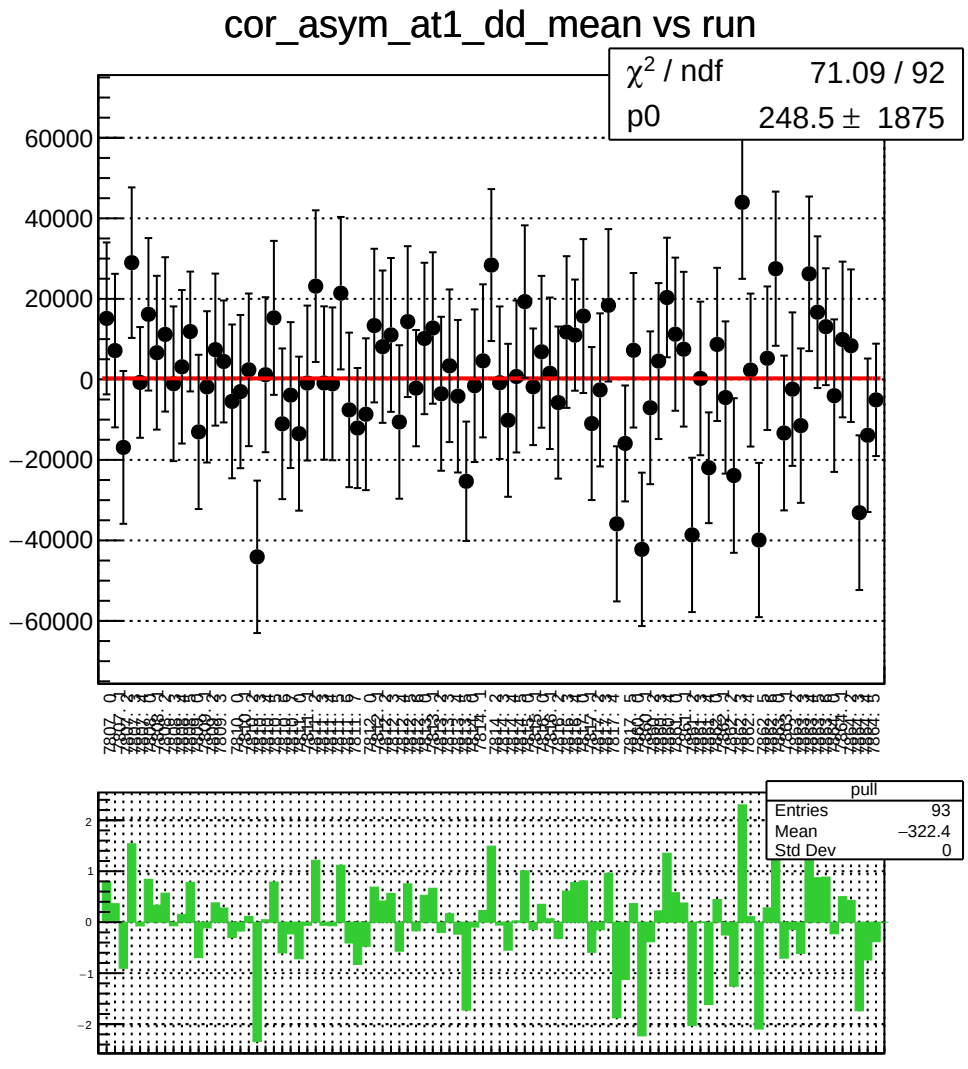

pull1D
Entries 93
Mean 0.006091
Std Dev 0.8743
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

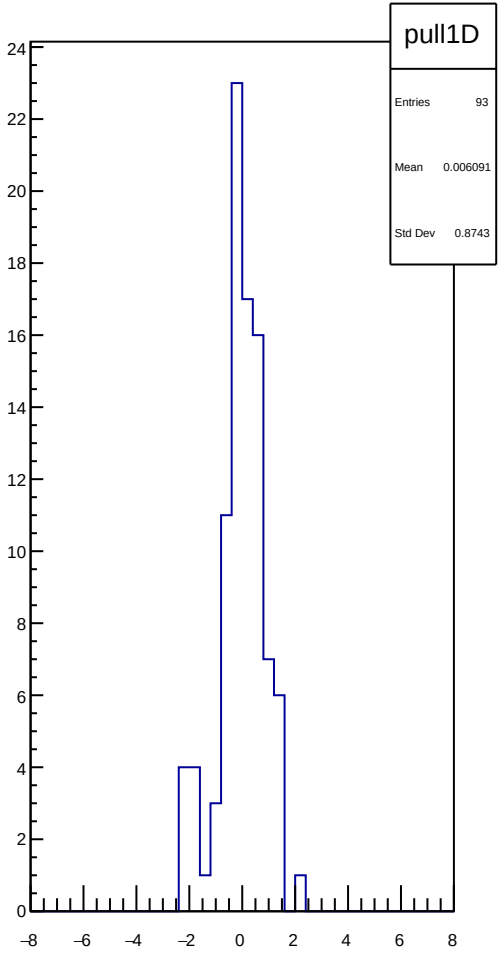

reg_asym_at1_dd_rms vs run
χ^2 / ndf 92.01 / 92
p0 1804 ± 1.326
1860
1840
1820
1800
1780
1760

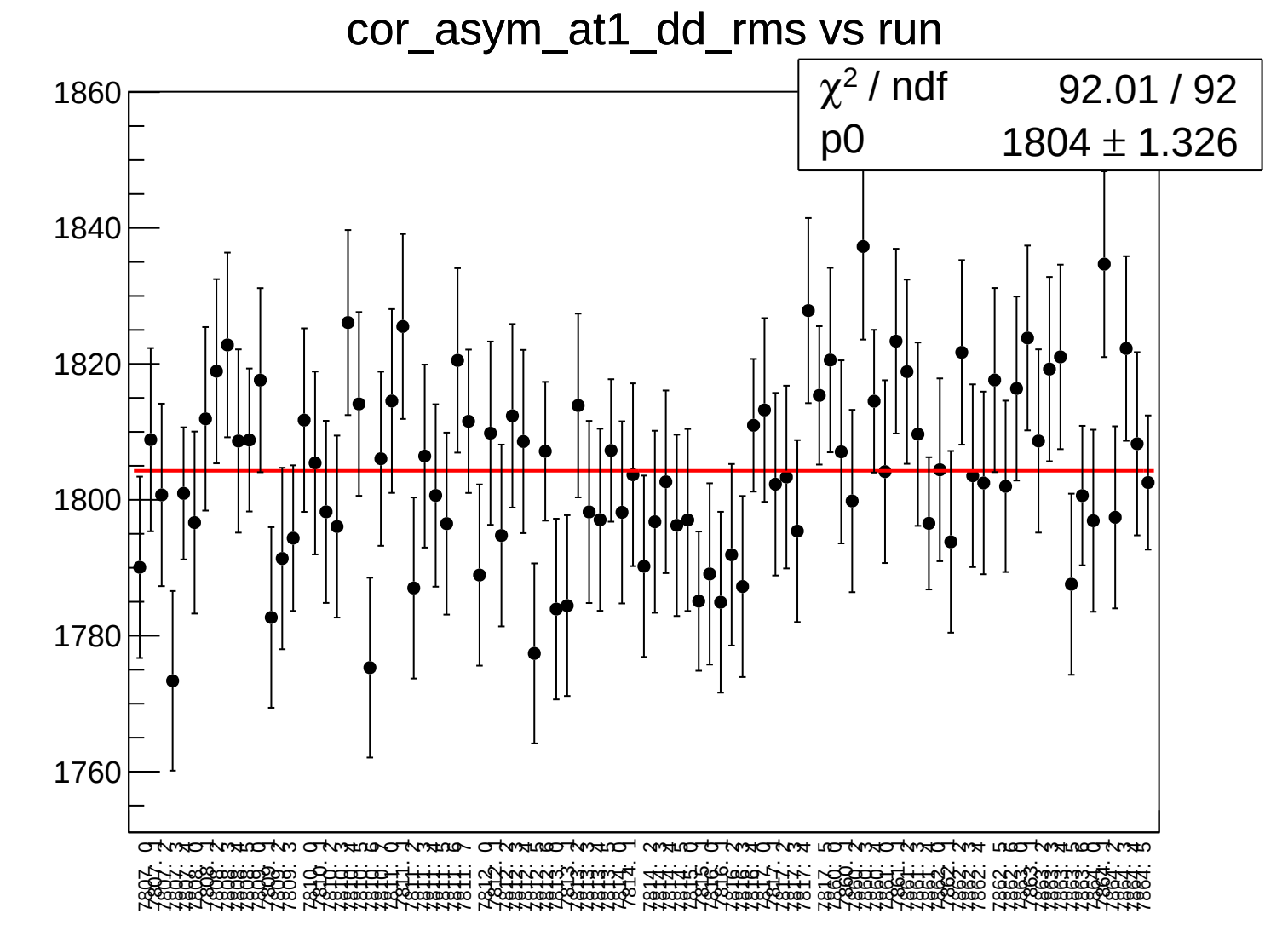

asym_at1_dd_reg_correction_mean vs run
χ² / ndf 80.23 / 92
p0 −1091 ± 943.8
pull
Entries 93
Mean 45.6
Std Dev 99.34

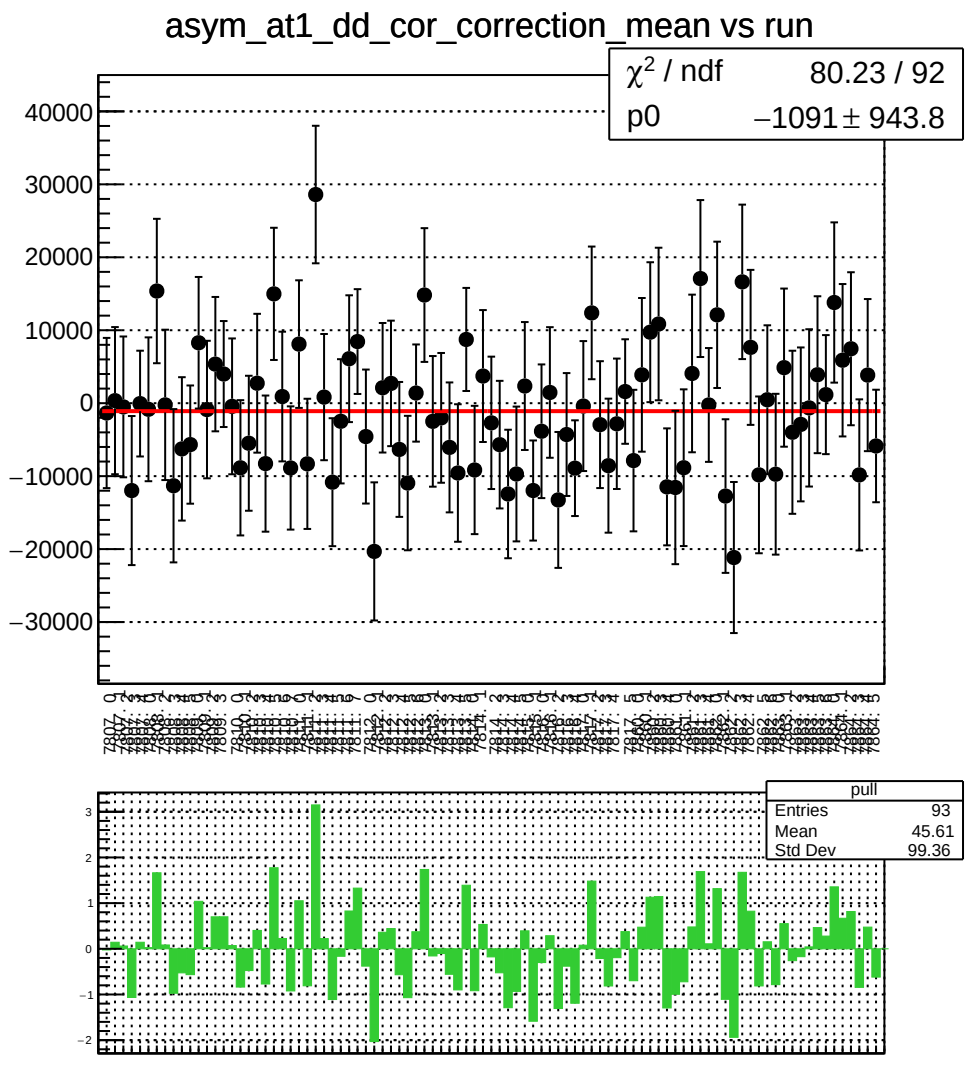

pull1D
Entries 93
Mean 0.006842
Std Dev 0.9288

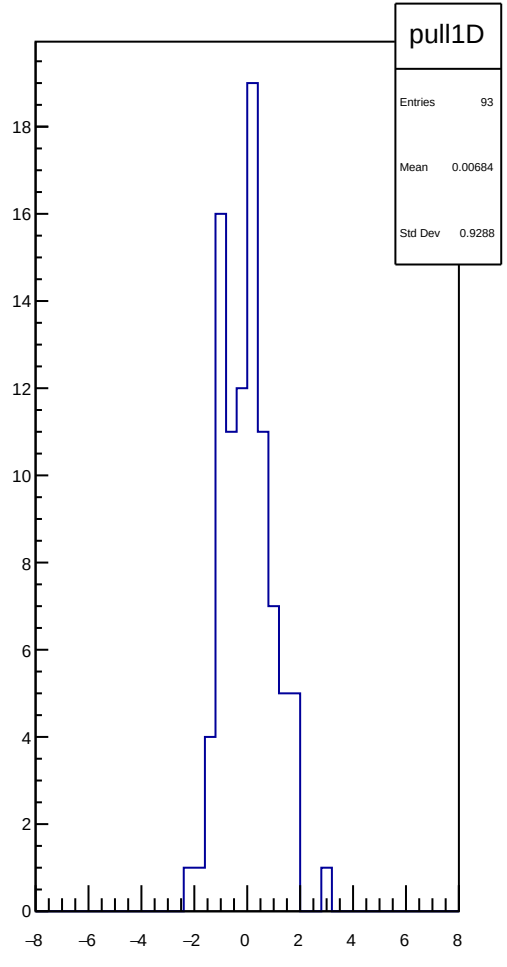

asym_at1_dd_reg_correction_rms vs run
χ² / ndf 1.108e+04 / 92
p0 905.4 ± 0.6674
1050
1000
950
900
850
800

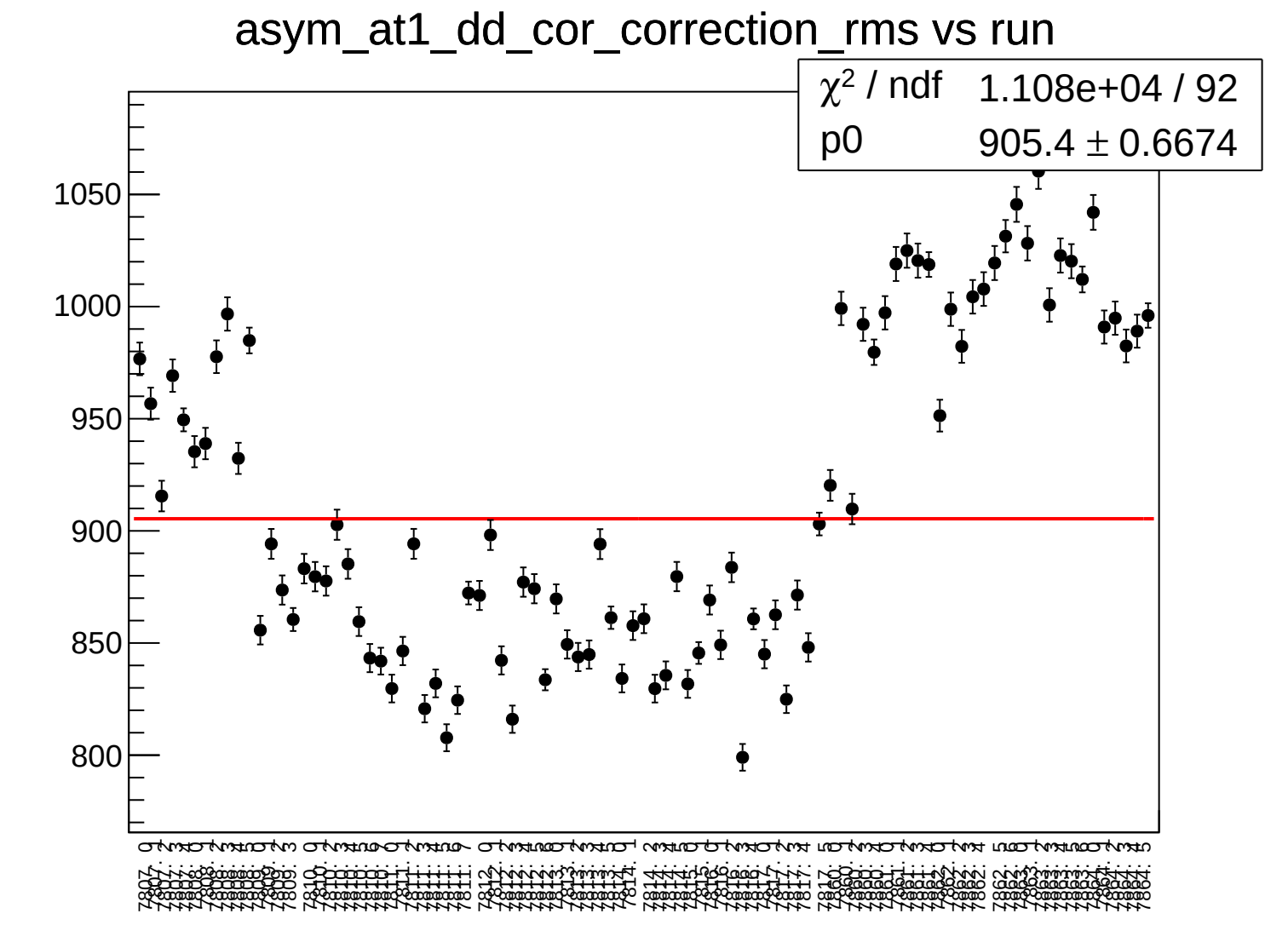

cor_asym_at1_dd_mean vs run
χ² / ndf 71.09 / 92
p0 248.5 ± 1875
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −322.4
Std Dev 0
2
1
0
−1
−2

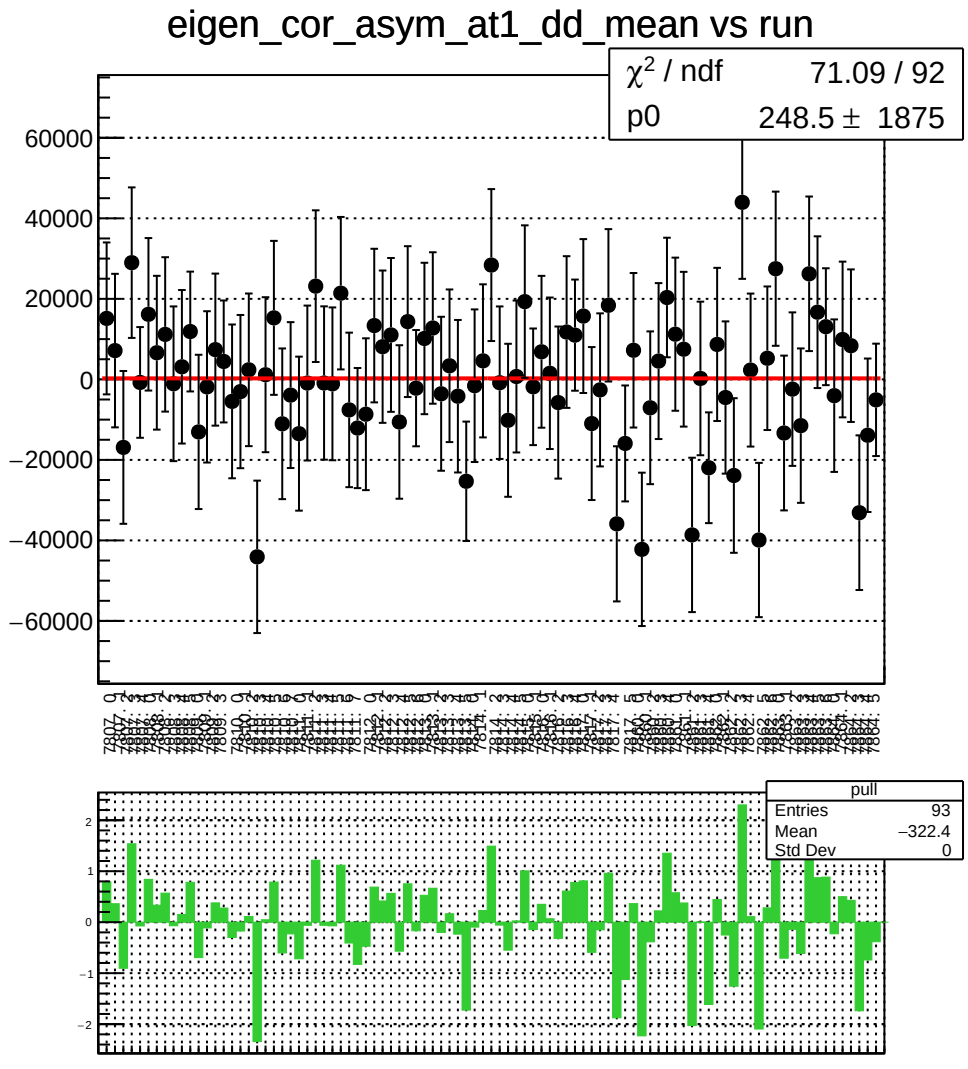

pull1D
Entries 93
Mean 0.006091
Std Dev 0.8743
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

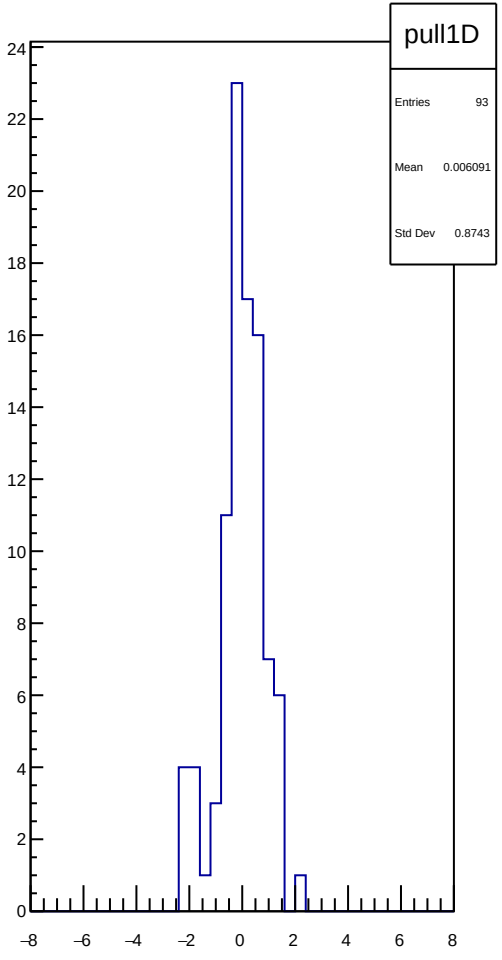

cor_asym_at1_dd_rms vs run
χ^2 / ndf 92.01 / 92
p0 1804 ± 1.326
1860
1840
1820
1800
1780
1760

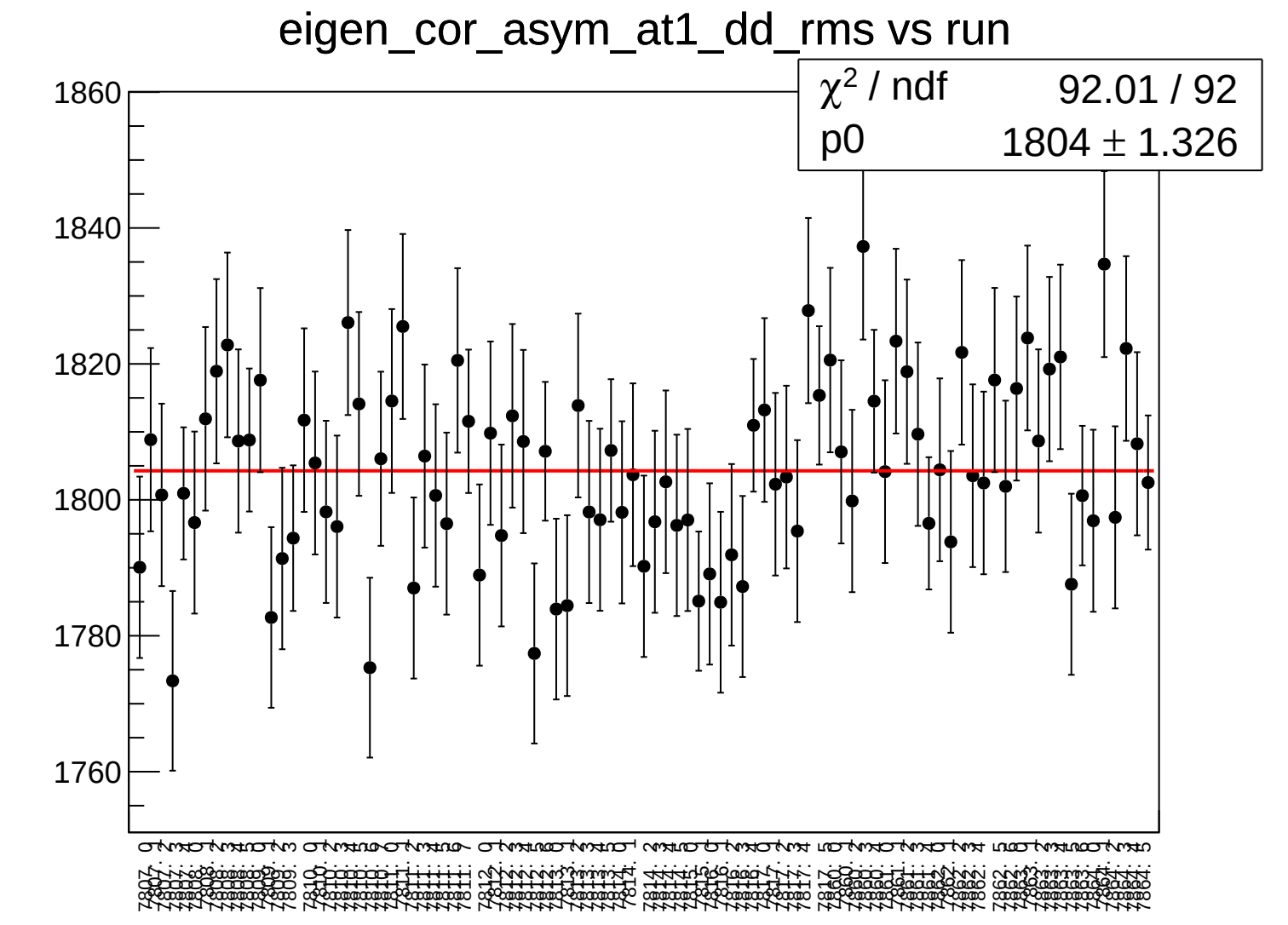

asym_at1_dd_cor_correction_mean vs run
χ² / ndf 80.23 / 92
p0 −1091 ± 943.8
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean 45.61
Std Dev 99.36
3
2
1
0
−1
−2

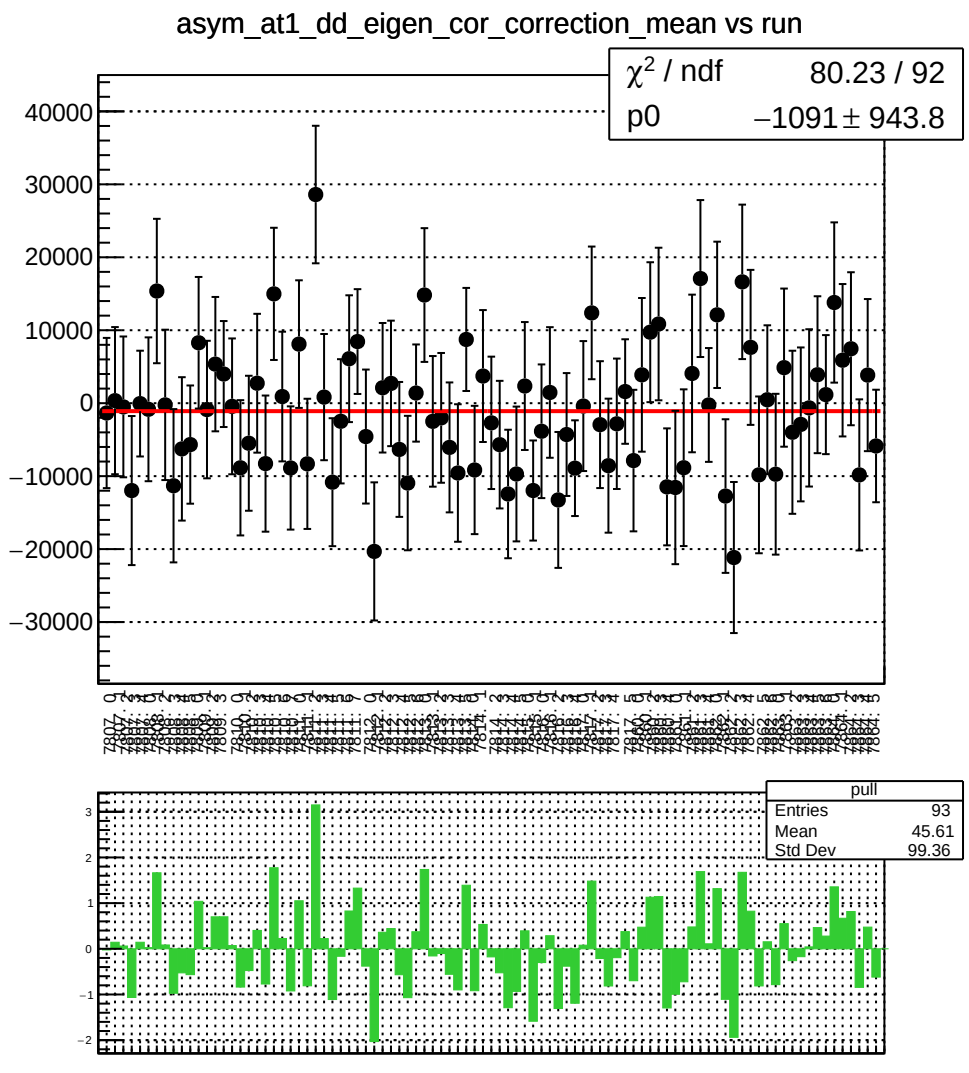

pull1D
Entries 93
Mean 0.00684
Std Dev 0.9288
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

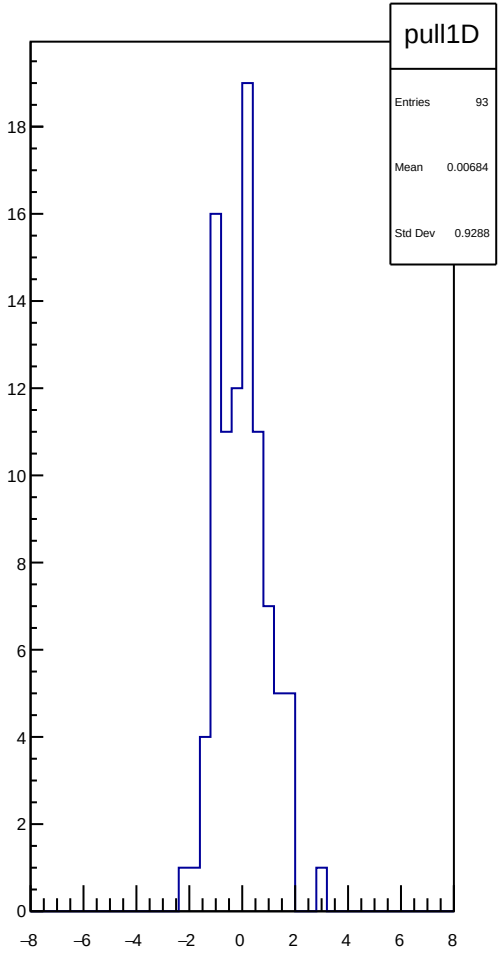

asym_at1_dd_cor_correction_rms vs run
χ² / ndf 1.108e+04 / 92
p0 905.4 ± 0.6674
1050
1000
950
900
850
800

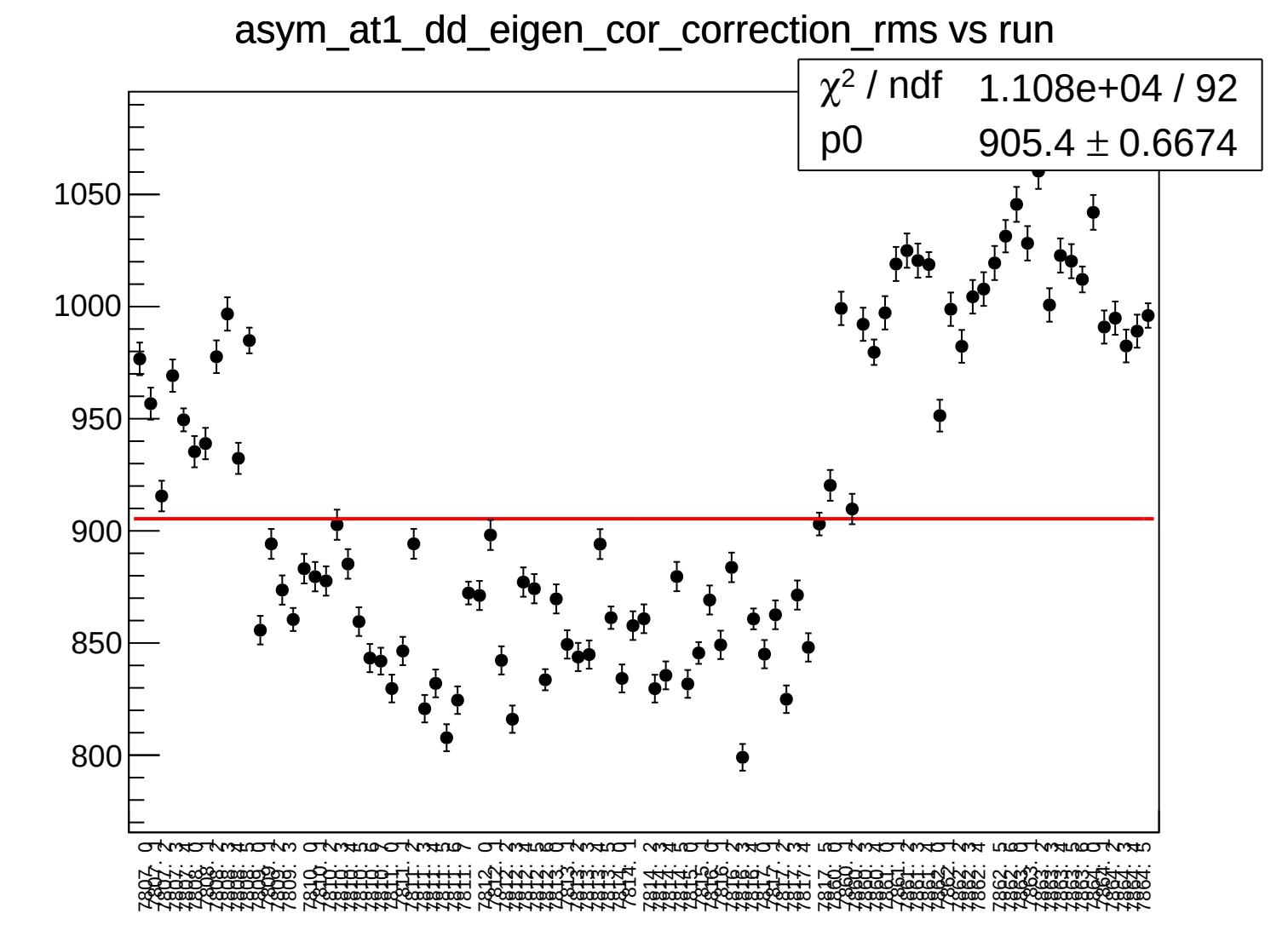

eigen_cor_asym_at1_dd_mean vs run
χ² / ndf 71.09 / 92
p0 248.5 ± 1875
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −322.4
Std Dev 0
2
1
0
−1
−2

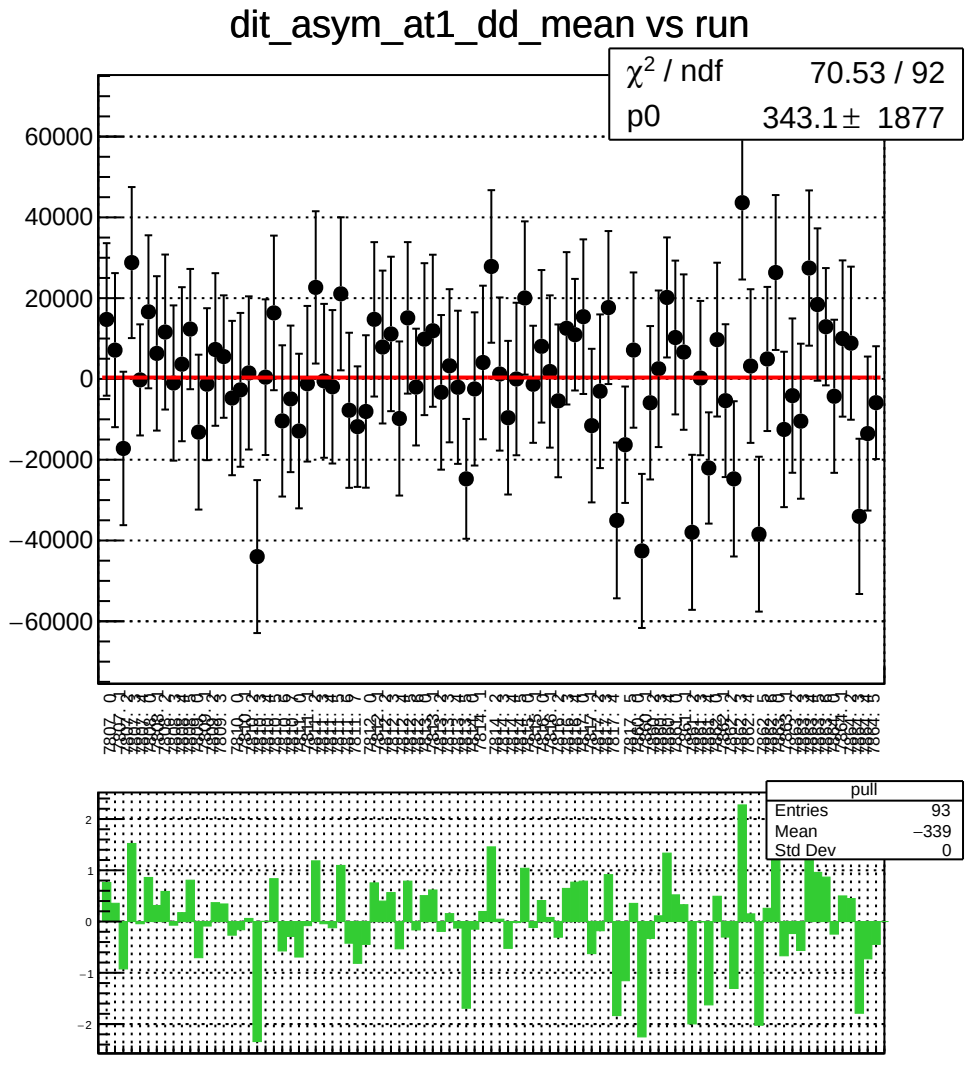

pull1D
Entries 93
Mean 0.006091
Std Dev 0.8743
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

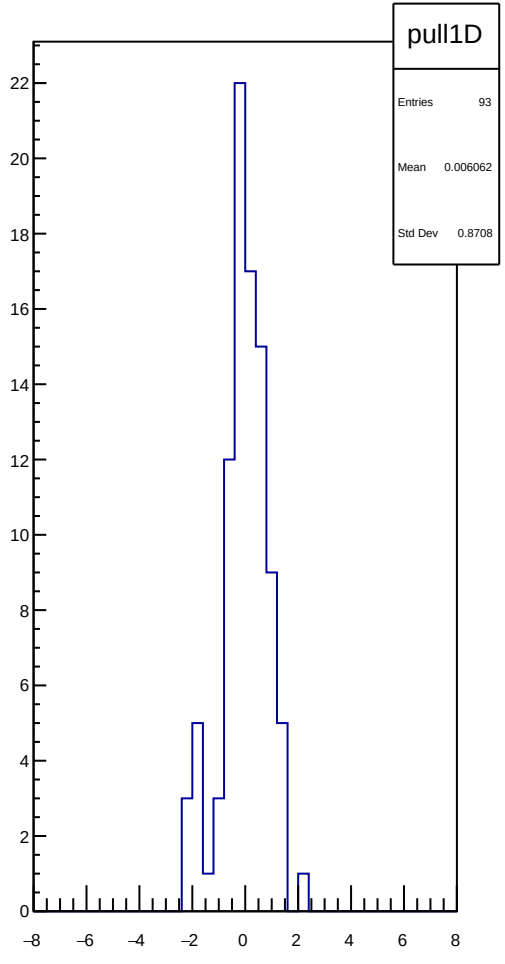

eigen_cor_asym_at1_dd_rms vs run
χ² / ndf 92.01 / 92
p0 1804 ± 1.326
1860
1840
1820
1800
1780
1760

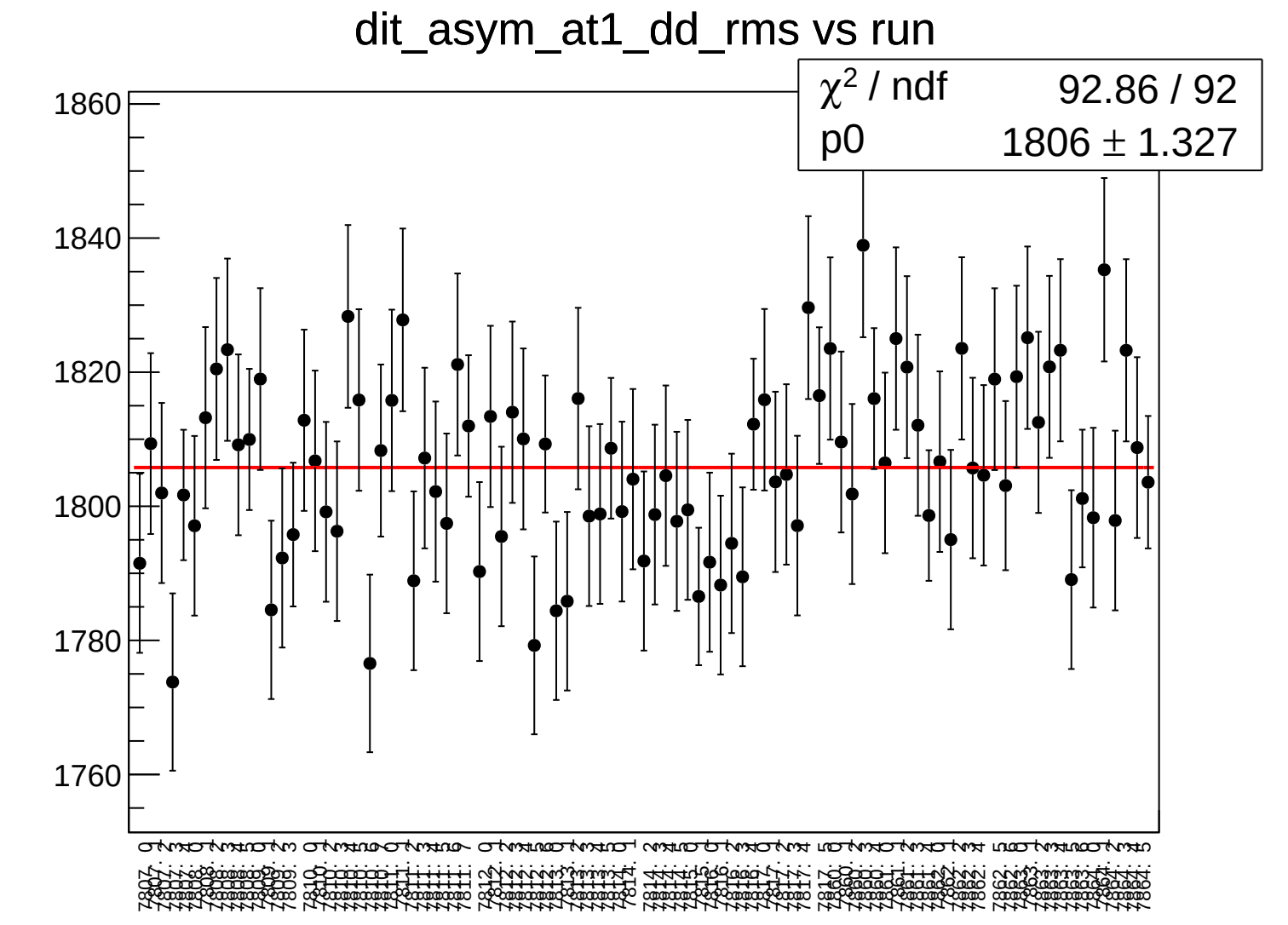

asym_at1_dd_eigen_cor_correction_mean vs run
χ² / ndf 80.23 / 92
p0 −1091 ± 943.8
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean 45.61
Std Dev 99.36
3
2
1
0
−1
−2

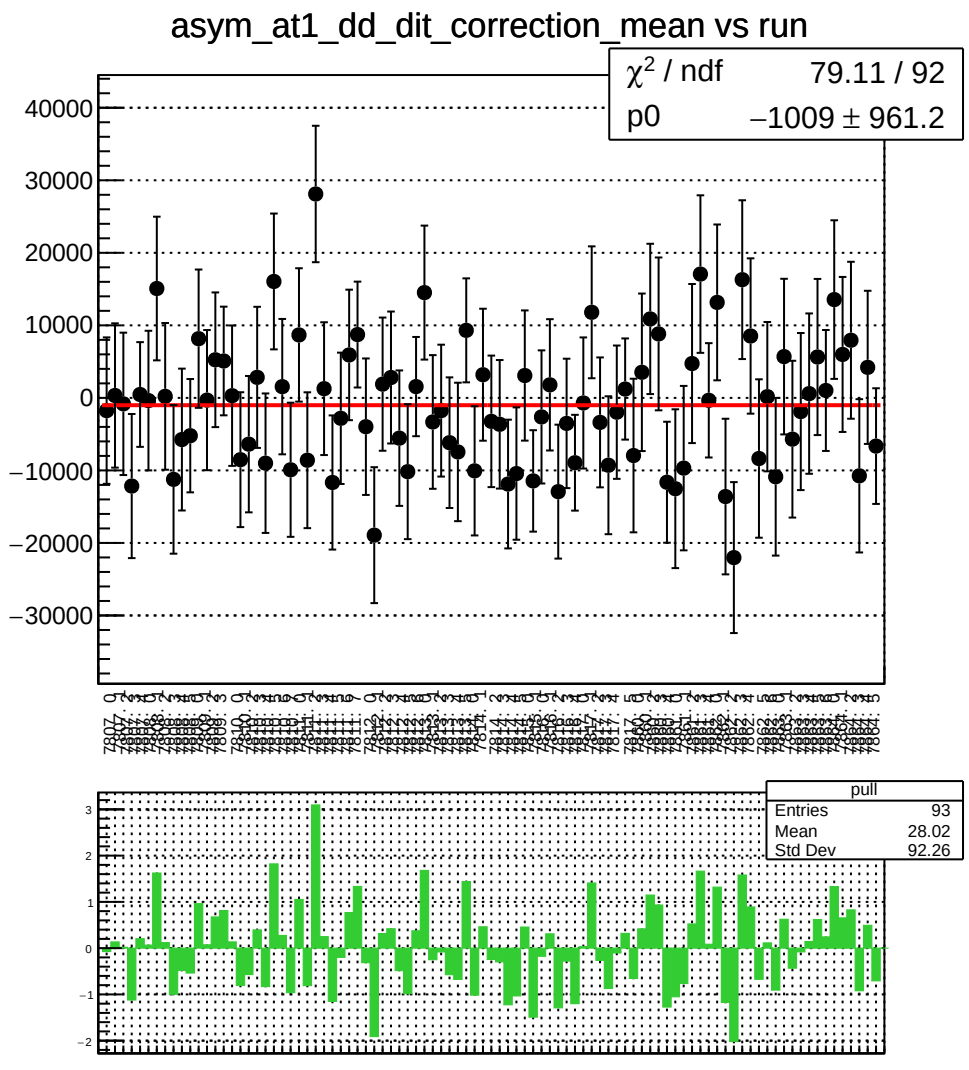

pull1D
Entries 93
Mean 0.00684
Std Dev 0.9288
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

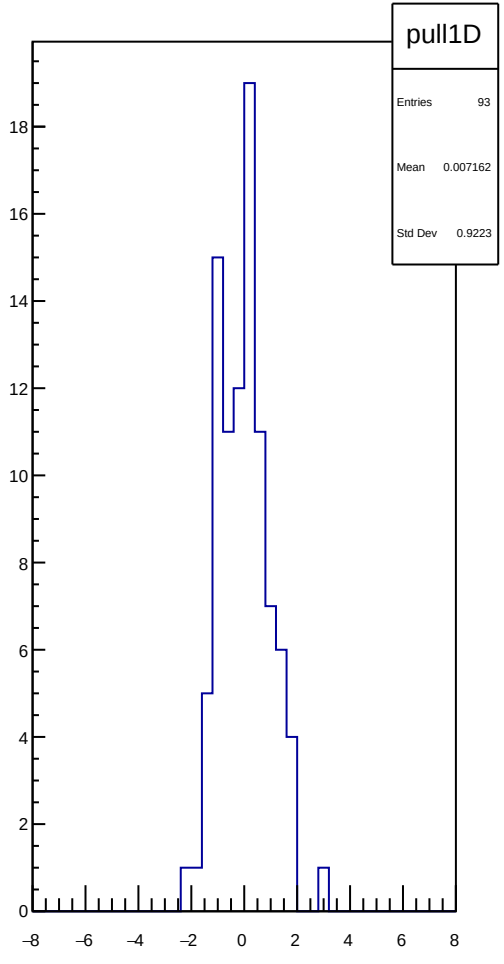

asym_at1_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.108e+04 / 92
p0 905.4 ± 0.6674
1050
1000
950
900
850
800


dit_asym_at1_dd_mean vs run
χ² / ndf 70.53 / 92
p0 343.1 ± 1877
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −339
Std Dev 0
2
1
0
−1
−2

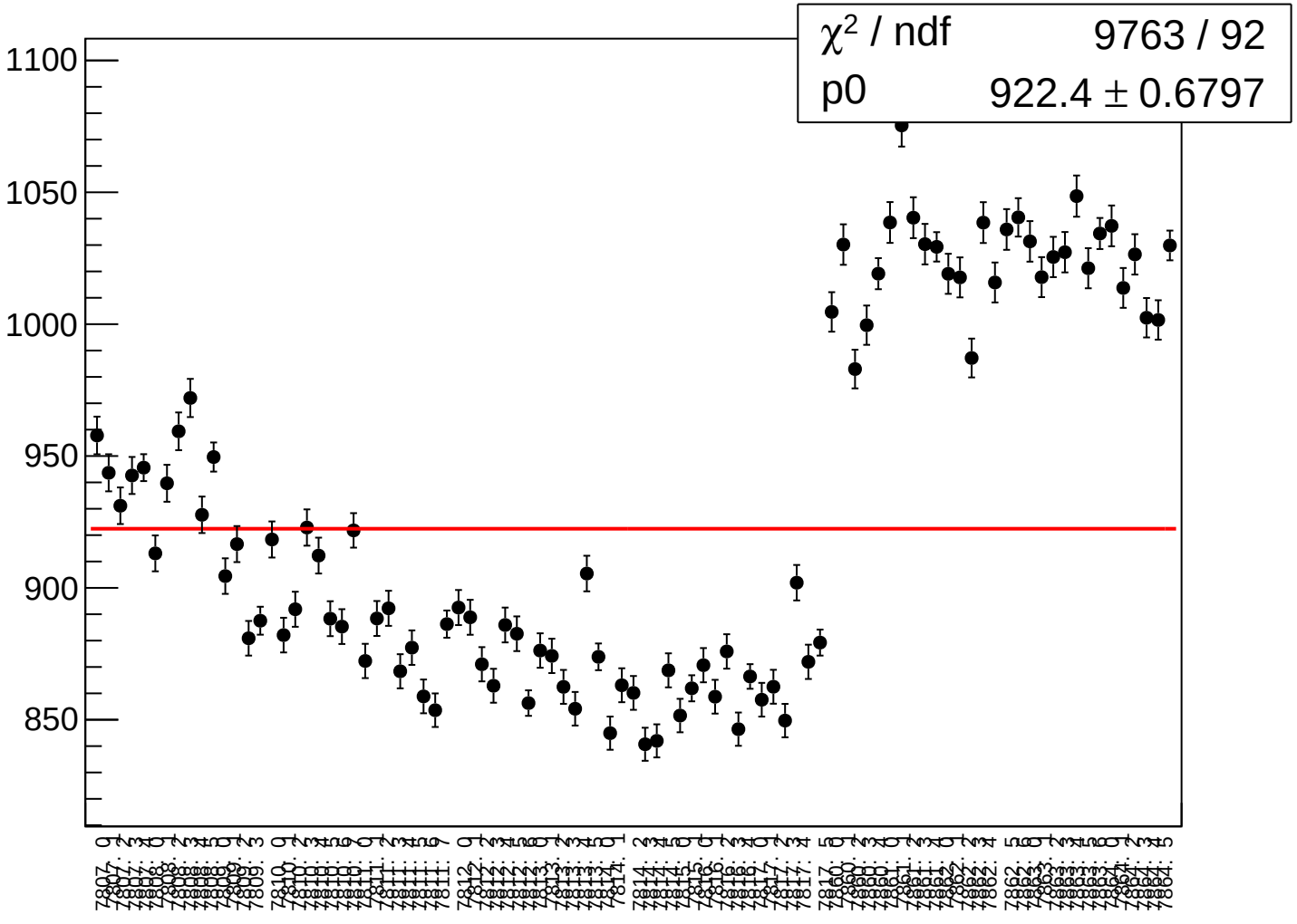

pull1D
Entries 93
Mean 0.006062
Std Dev 0.8708
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

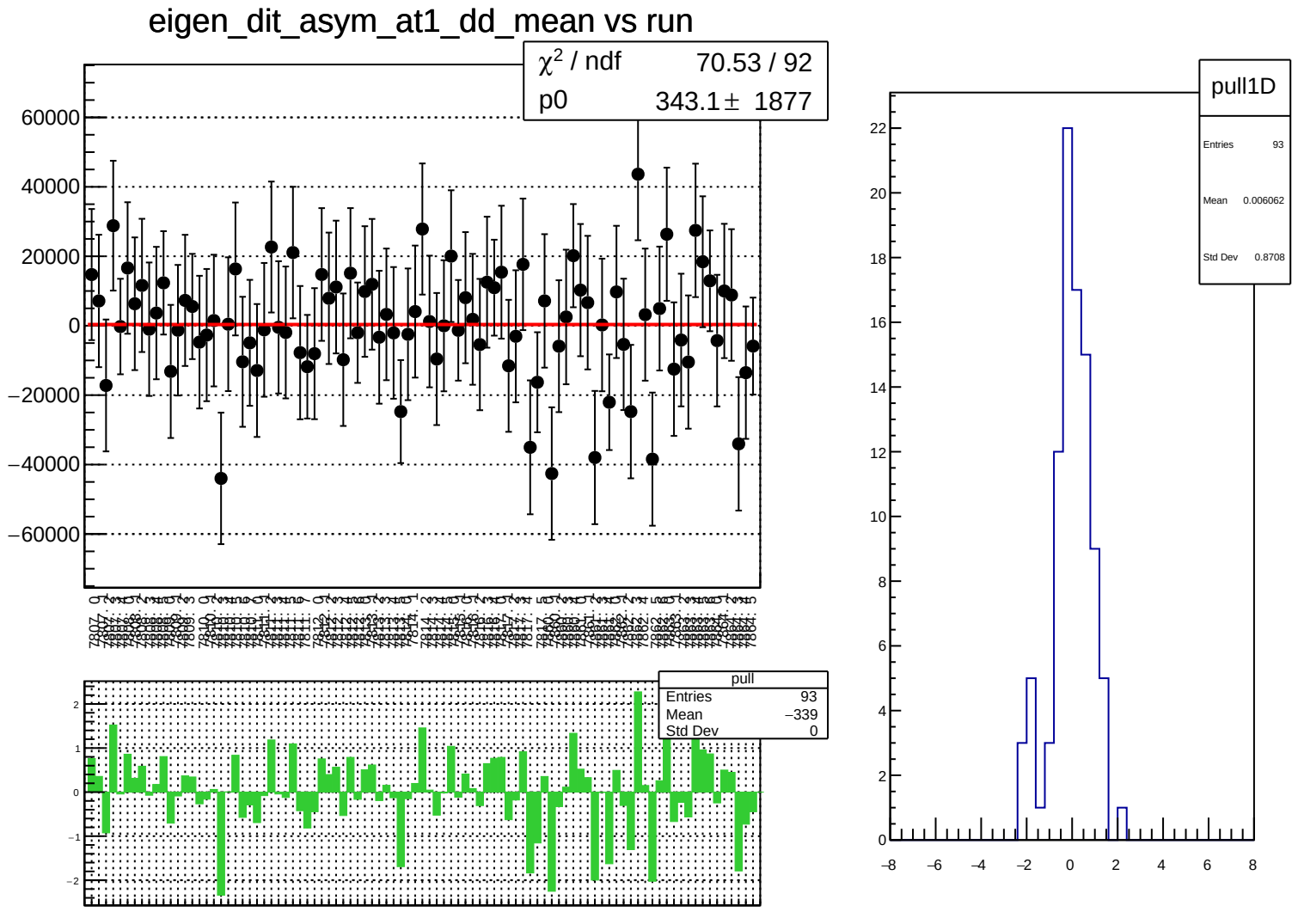

dit_asym_at1_dd_rms vs run
χ² / ndf 92.86 / 92
p0 1806 ± 1.327
1860
1840
1820
1800
1780
1760

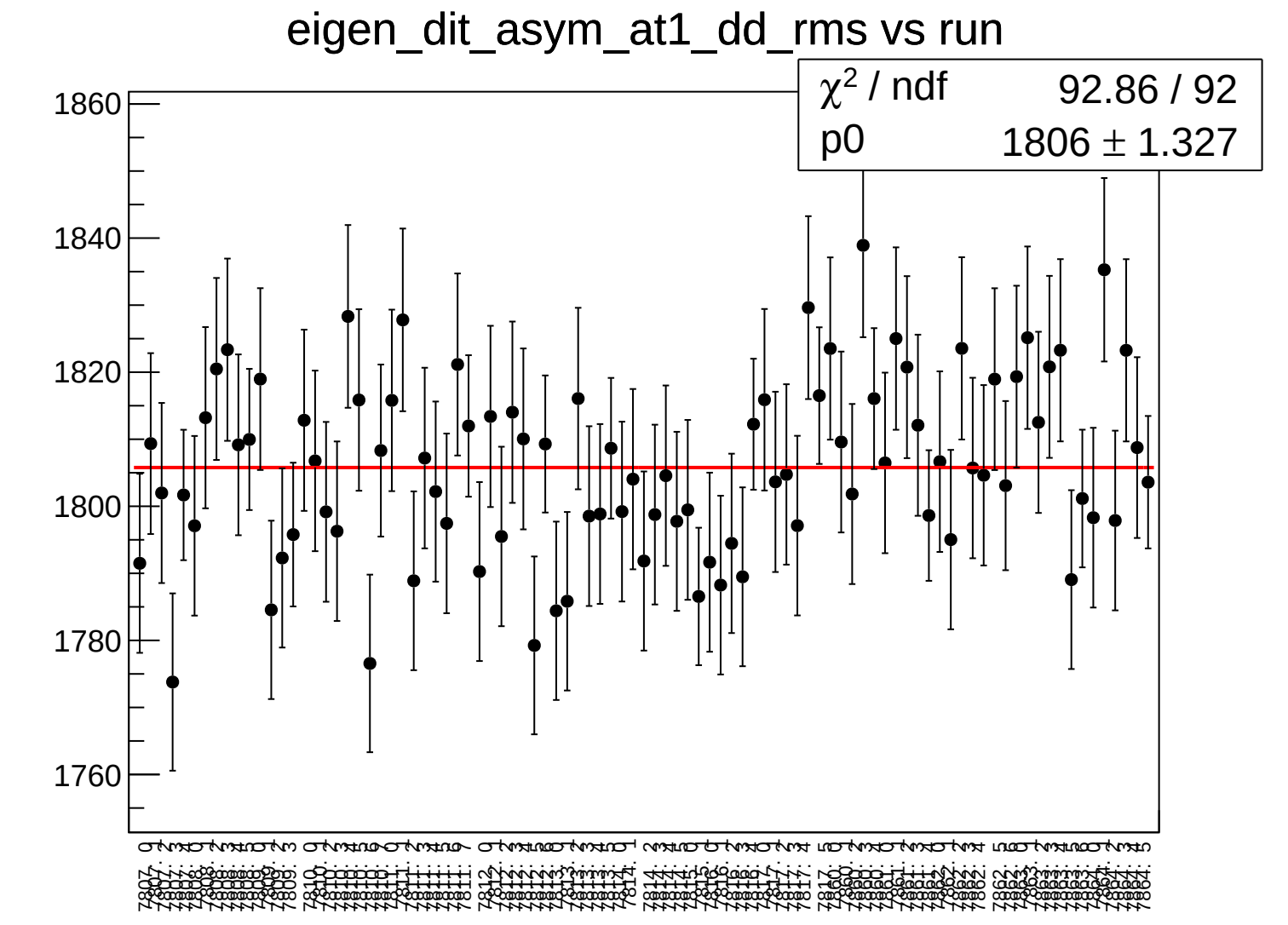

asym_at1_dd_dit_correction_mean vs run
χ² / ndf 79.11 / 92
p0 −1009 ± 961.2
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean 28.02
Std Dev 92.26
3
2
1
0
−1
−2

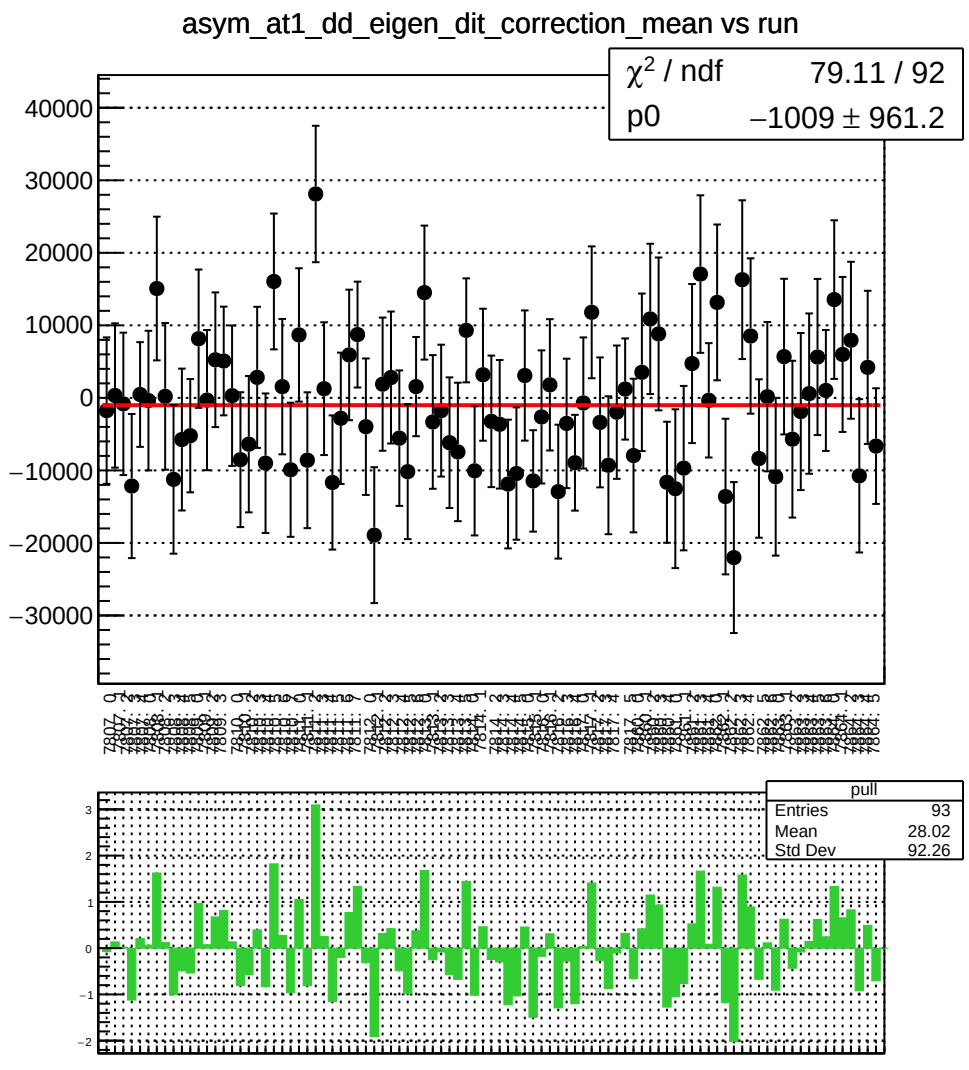

pull1D
Entries 93
Mean 0.007162
Std Dev 0.9223
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

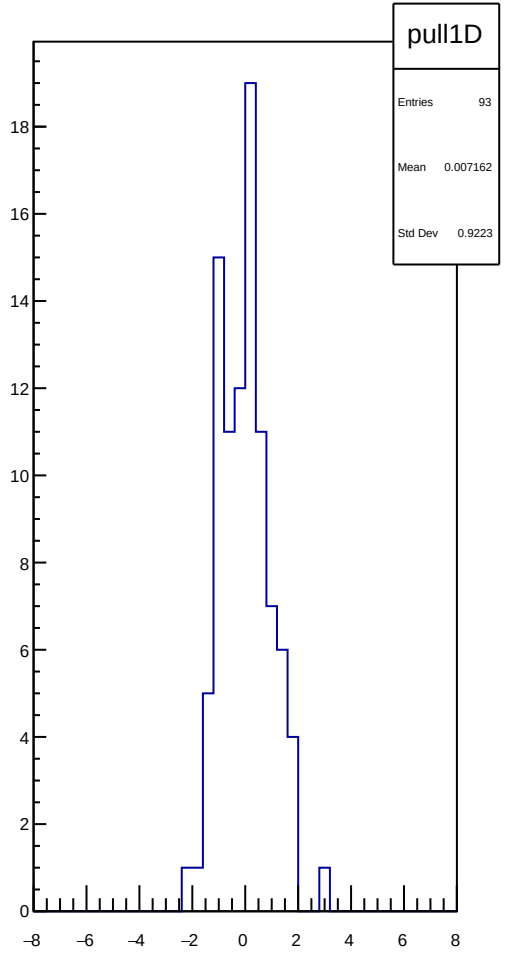
asym_at1_dd_dit_correction_rms vs run




eigen_dit_asym_at1_dd_mean vs run
χ² / ndf 70.53 / 92
p0 343.1 ± 1877
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −339
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.006062
Std Dev 0.8708
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_at1_dd_rms vs run
χ^2 / ndf 92.86 / 92
p0 1806 ± 1.327
1860
1840
1820
1800
1780
1760


asym_at1_dd_eigen_dit_correction_mean vs run
χ² / ndf 79.11 / 92
p0 −1009 ± 961.2
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean 28.02
Std Dev 92.26
3
2
1
0
−1
−2


pull1D
Entries 93
Mean 0.007162
Std Dev 0.9223
18
16
14
12
10
8
6
4
2
0
−8
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−4
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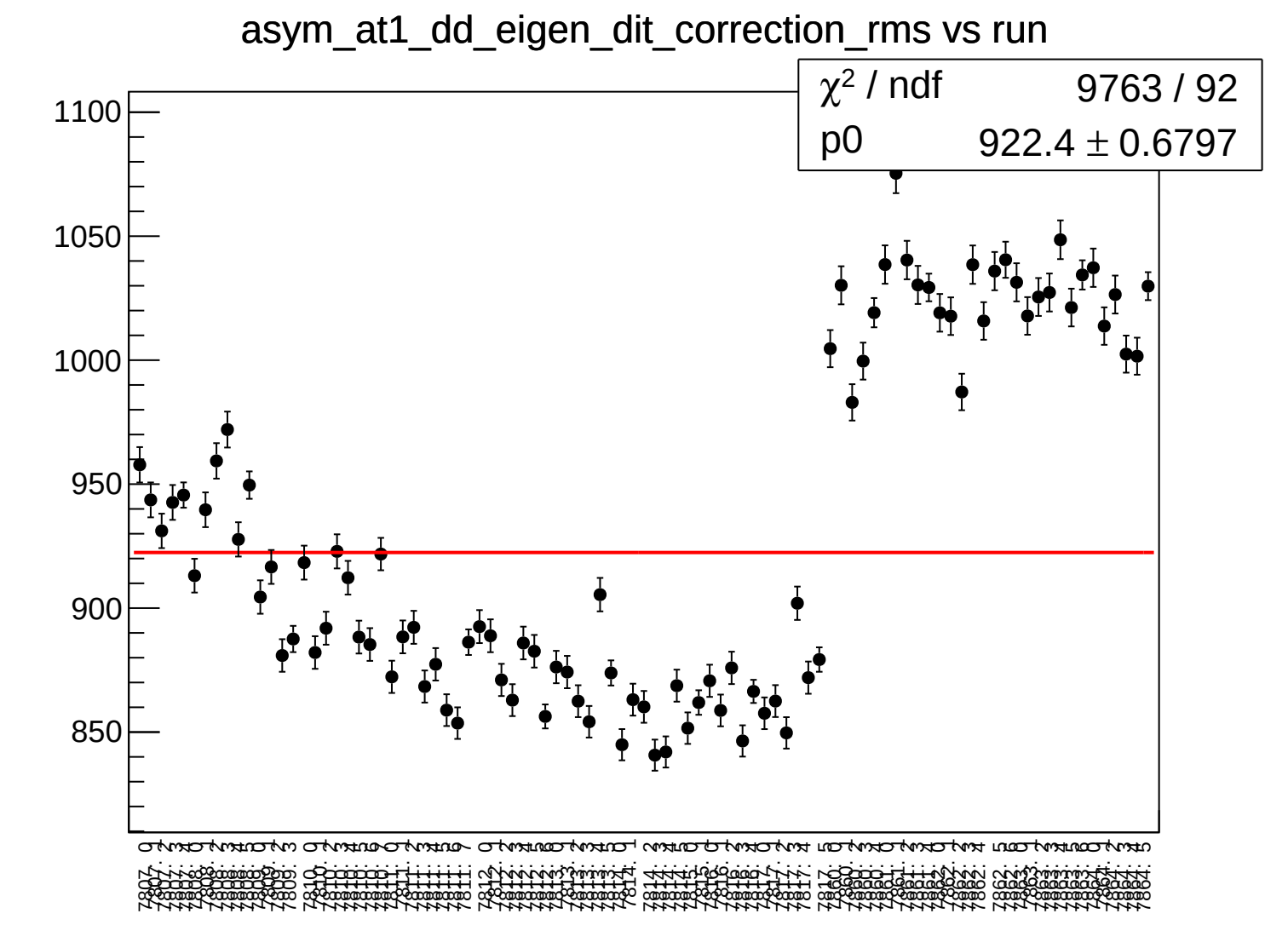
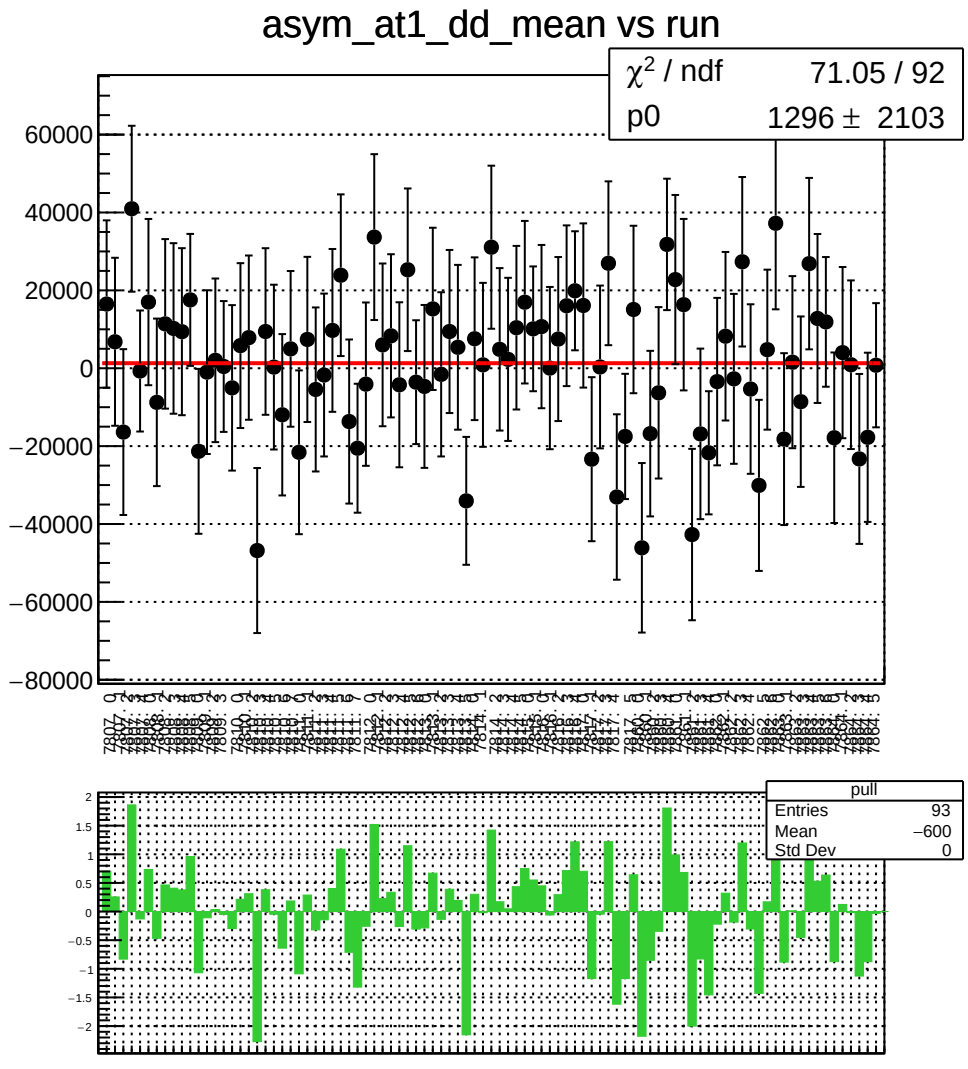
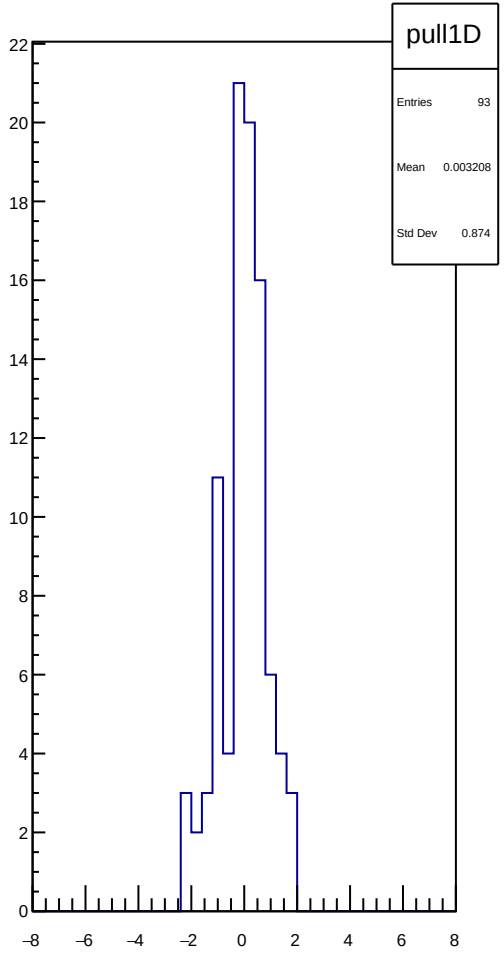
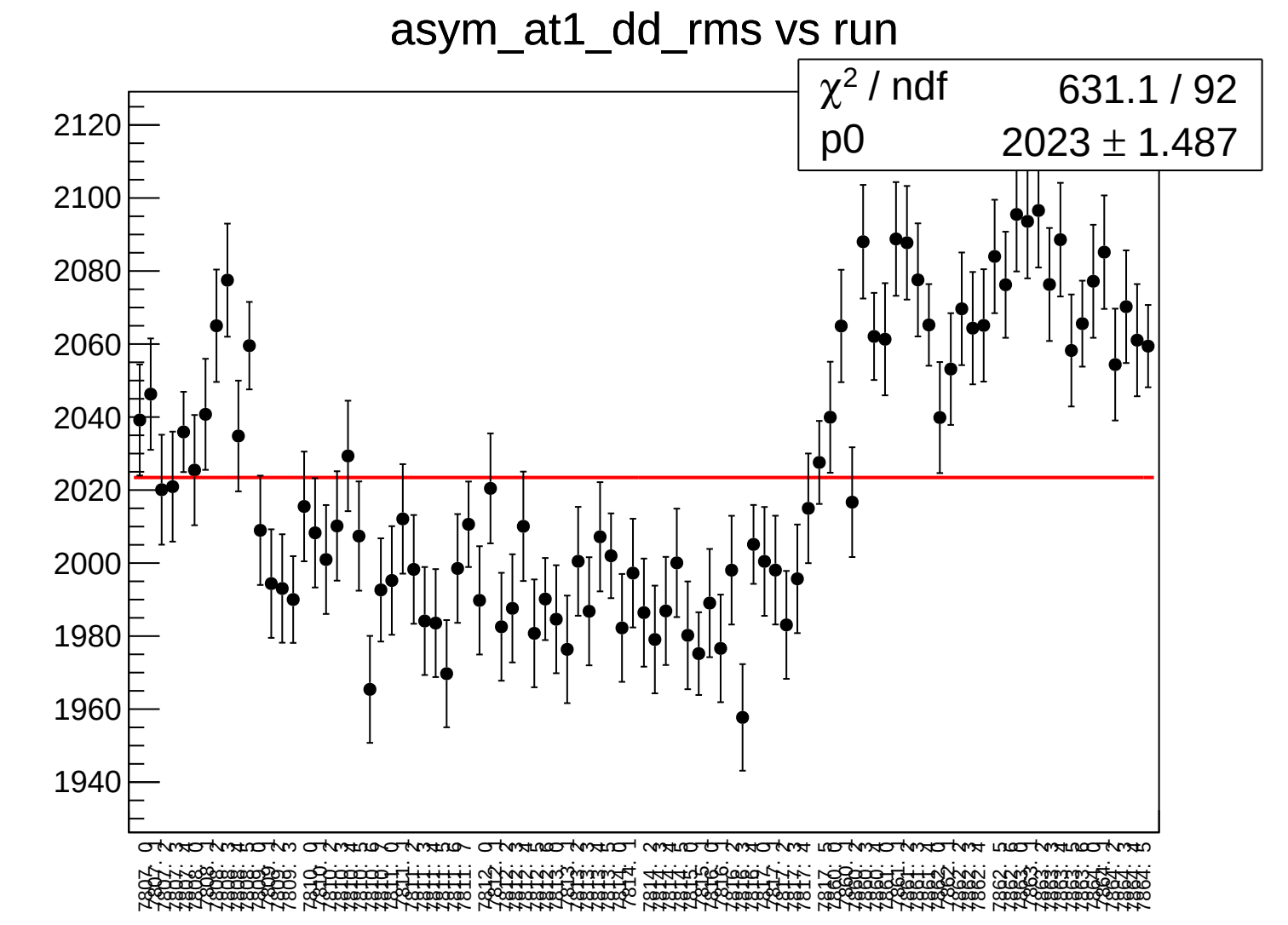
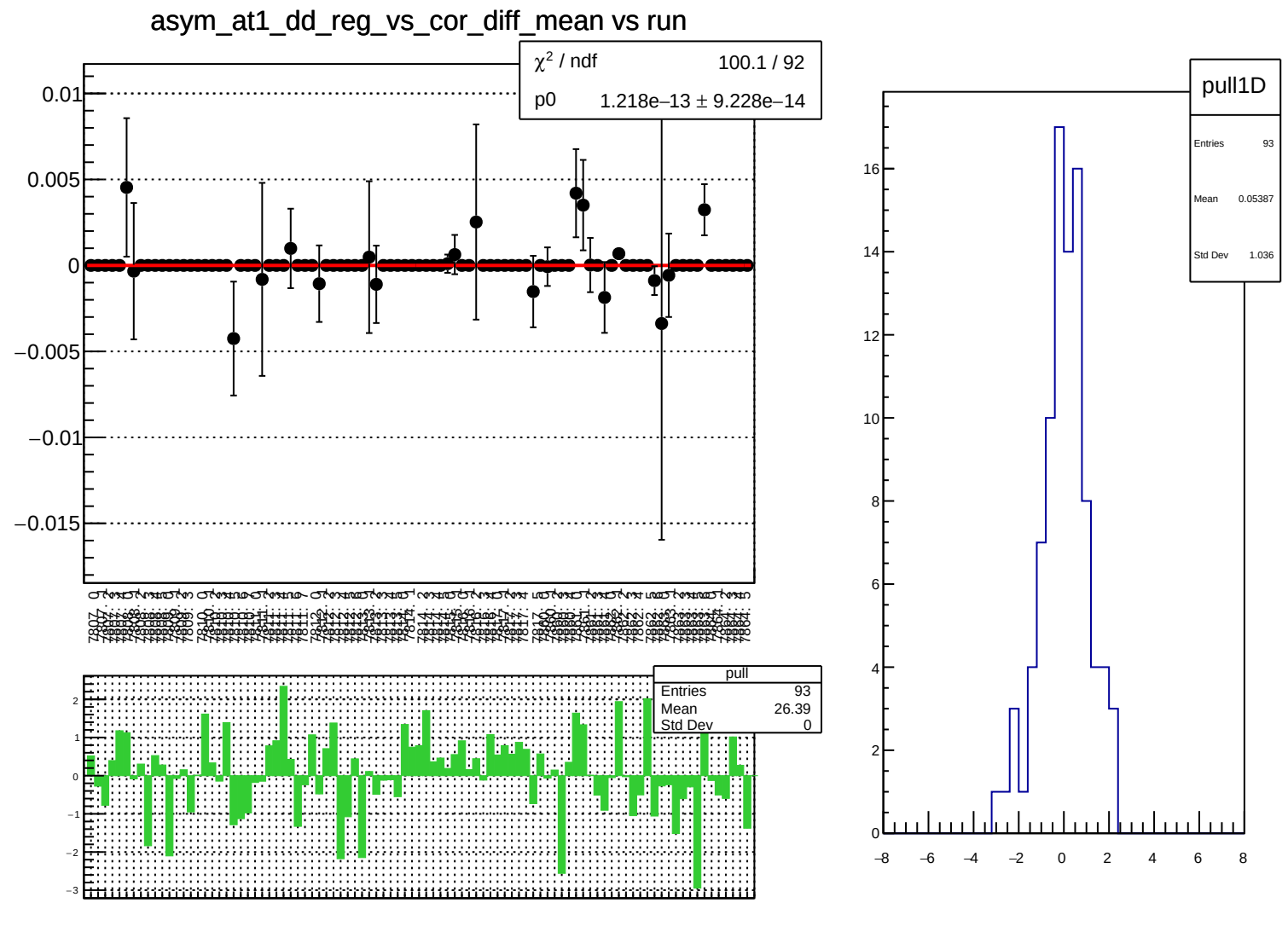
2
4
6
8

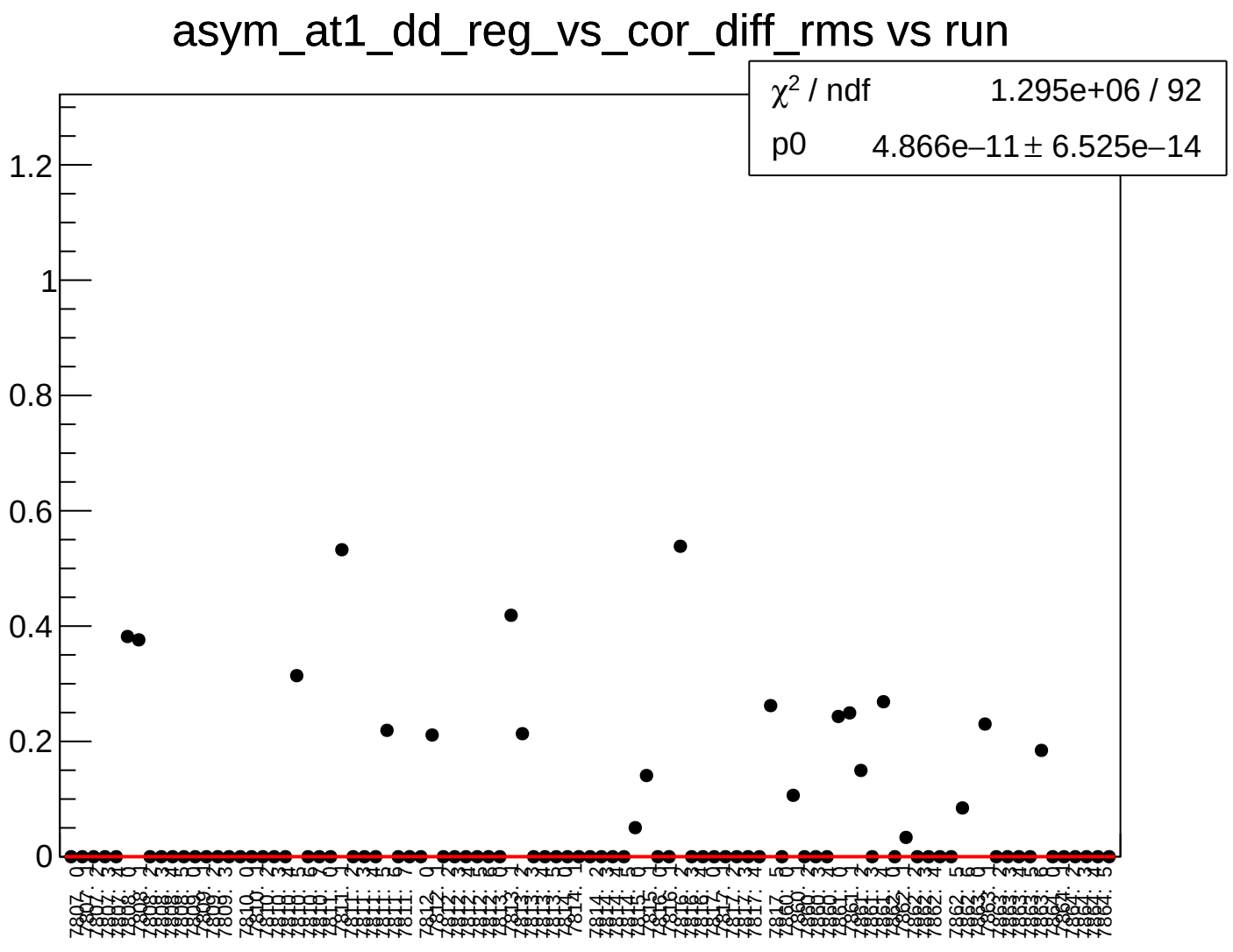

asym_at1_dd_eigen_dit_correction_rms vs run
χ² / ndf 9763 / 92
p0 922.4 ± 0.6797
1100
1050
1000
950
900
850

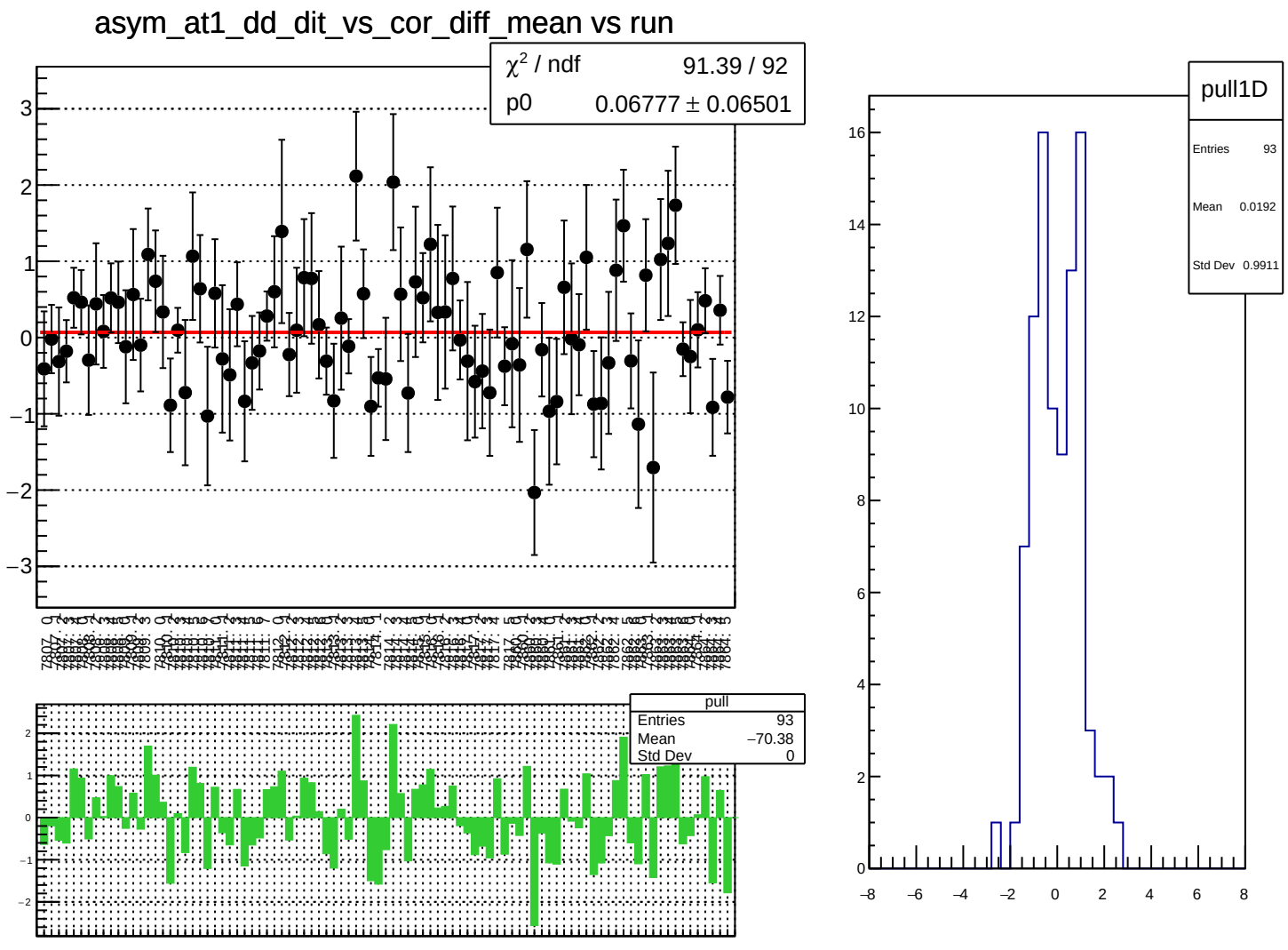

asym_at1_dd_mean vs run
χ² / ndf 71.05 / 92
p0 1296 ± 2103
pull
Entries 93
Mean −600
Std Dev 0

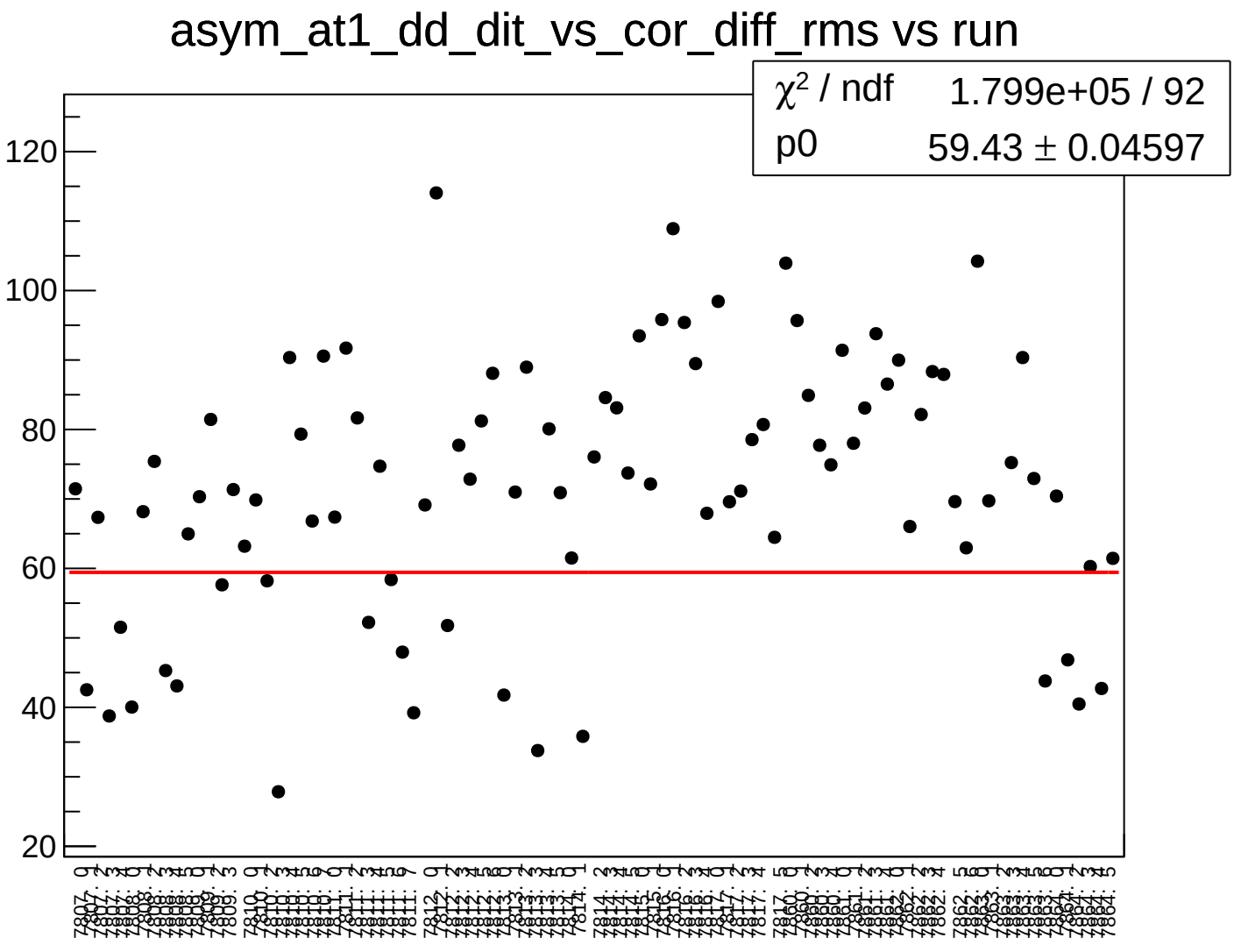

pull1D
Entries 93
Mean 0.003208
Std Dev 0.874

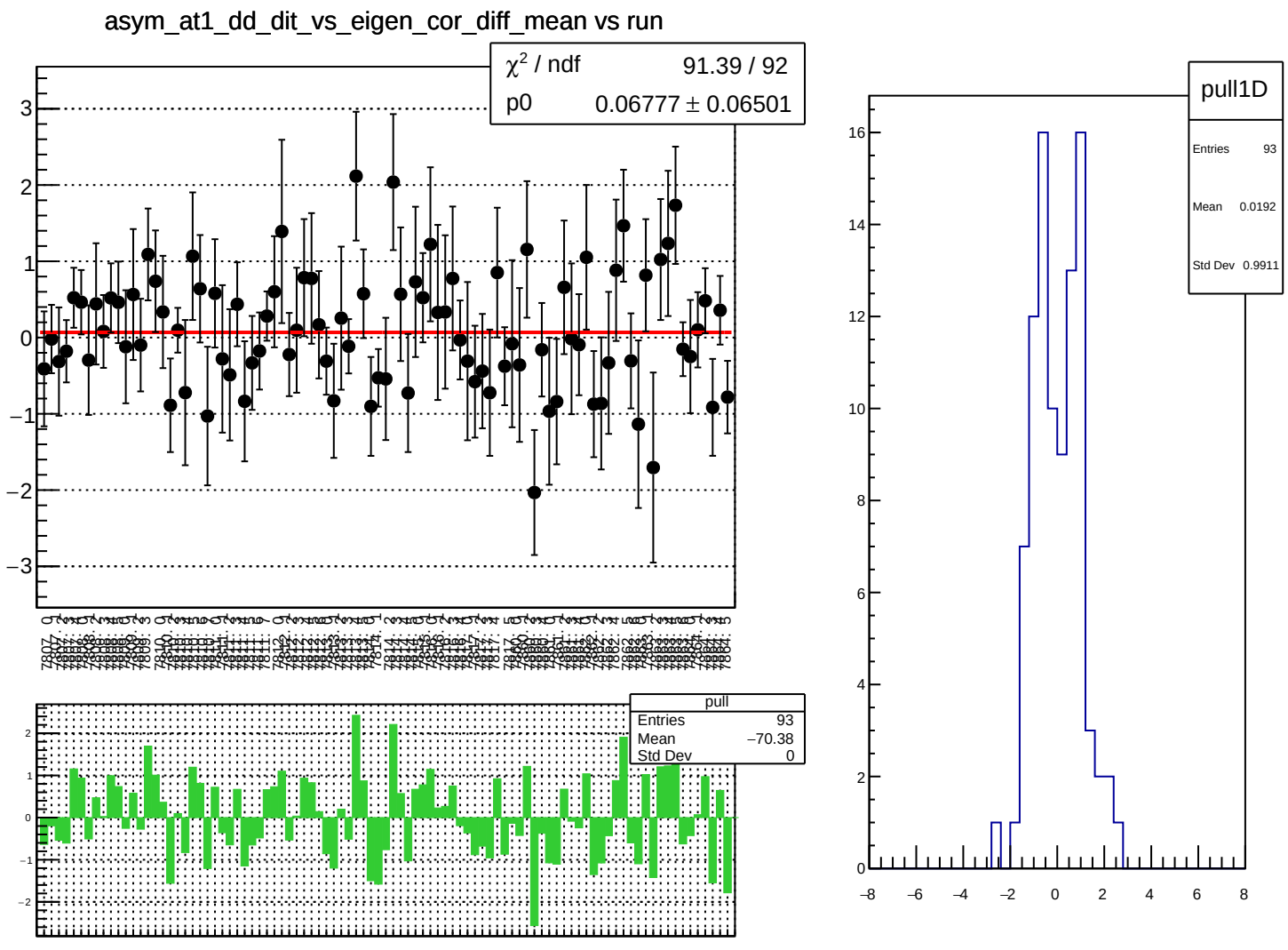

asym_at1_dd_rms vs run
χ^2 / ndf 631.1 / 92
p0 2023 ± 1.487
2120
2100
2080
2060
2040
2020
2000
1980
1960
1940

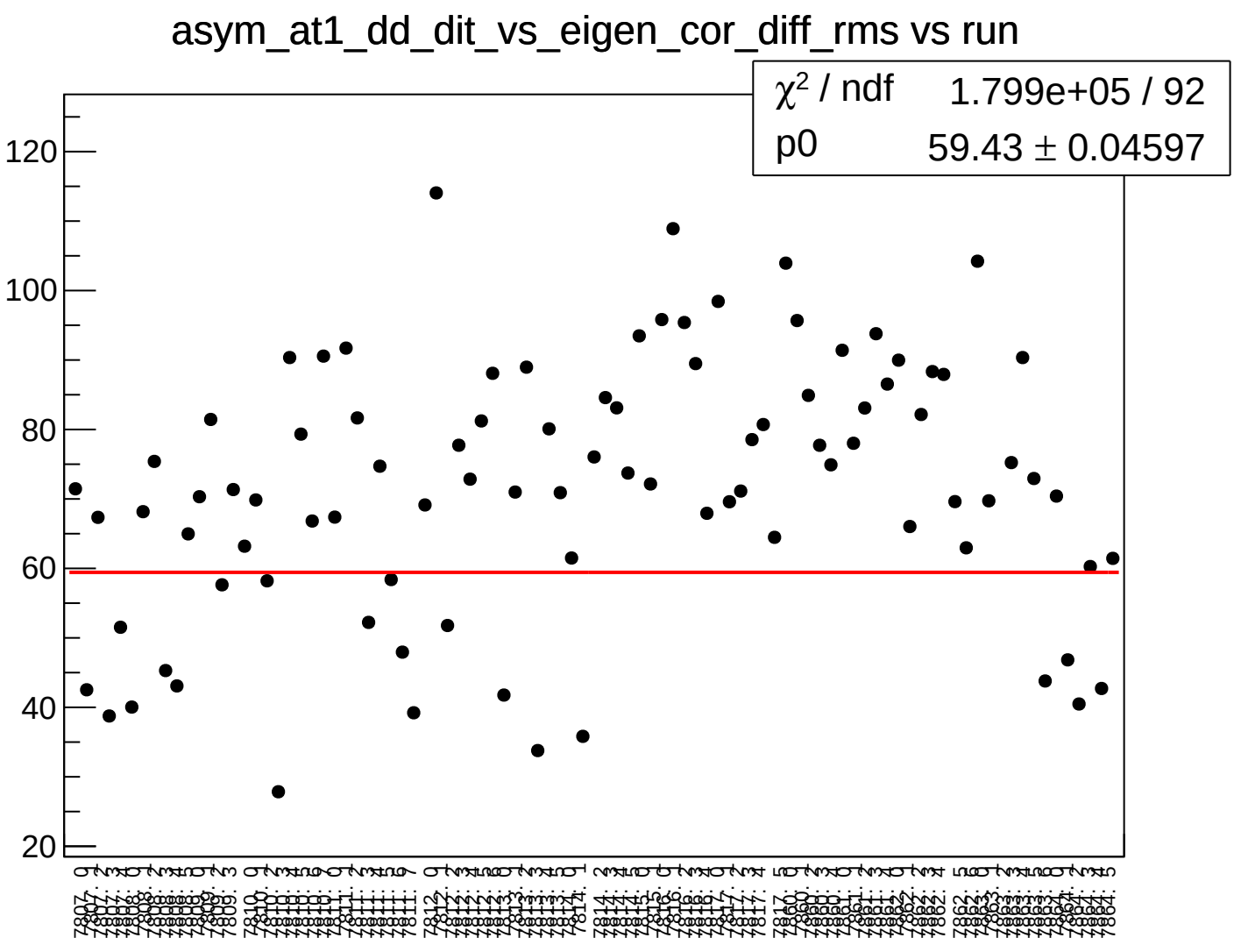

asym_at1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 100.1 / 92
p0 1.218e−13 ± 9.228e−14
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 93
Mean 26.39
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.05387
Std Dev 1.036
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

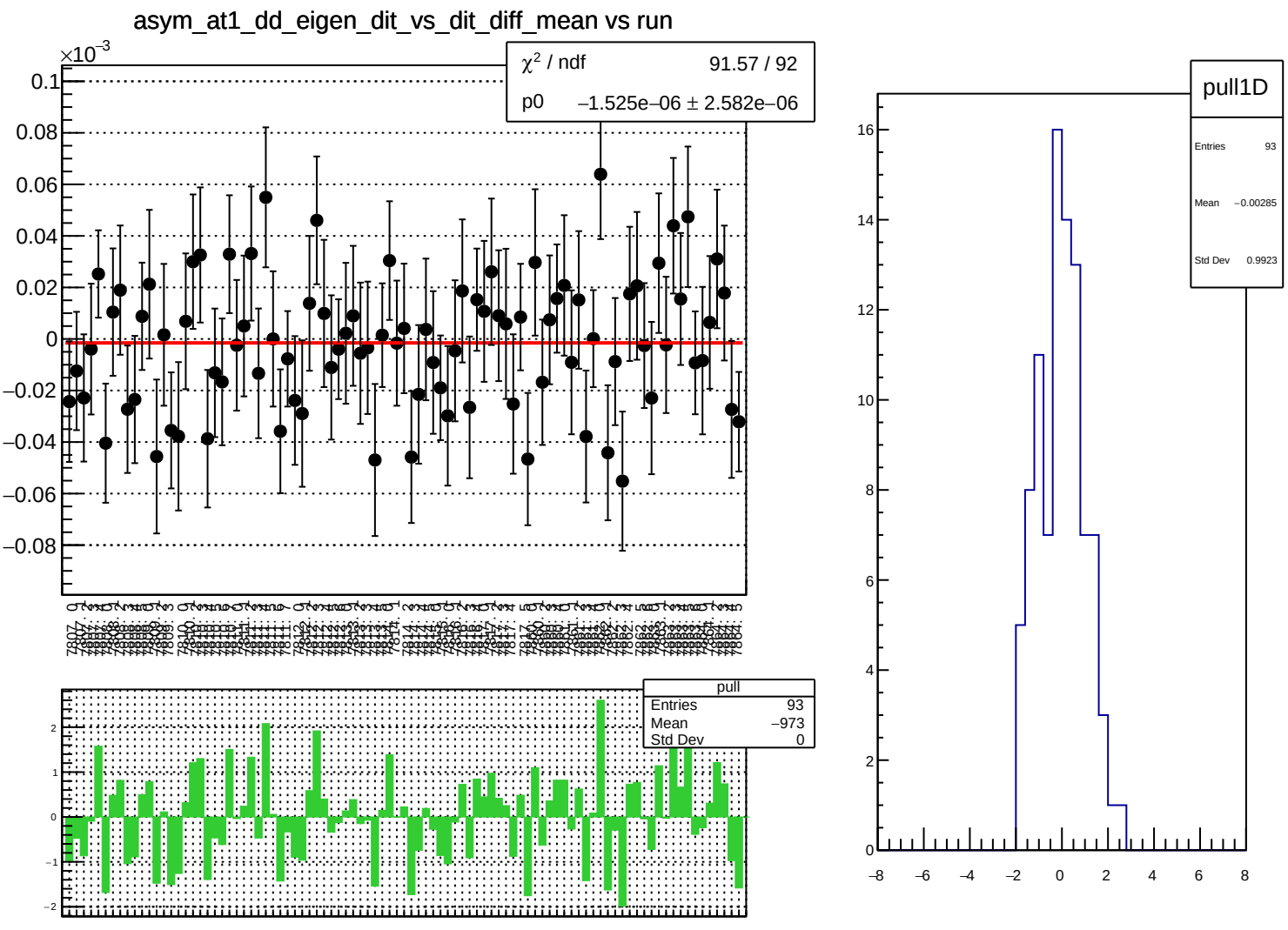

asym_at1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.295e+06 / 92
p0 4.866e−11 ± 6.525e−14
1.2
1
0.8
0.6
0.4
0.2
0

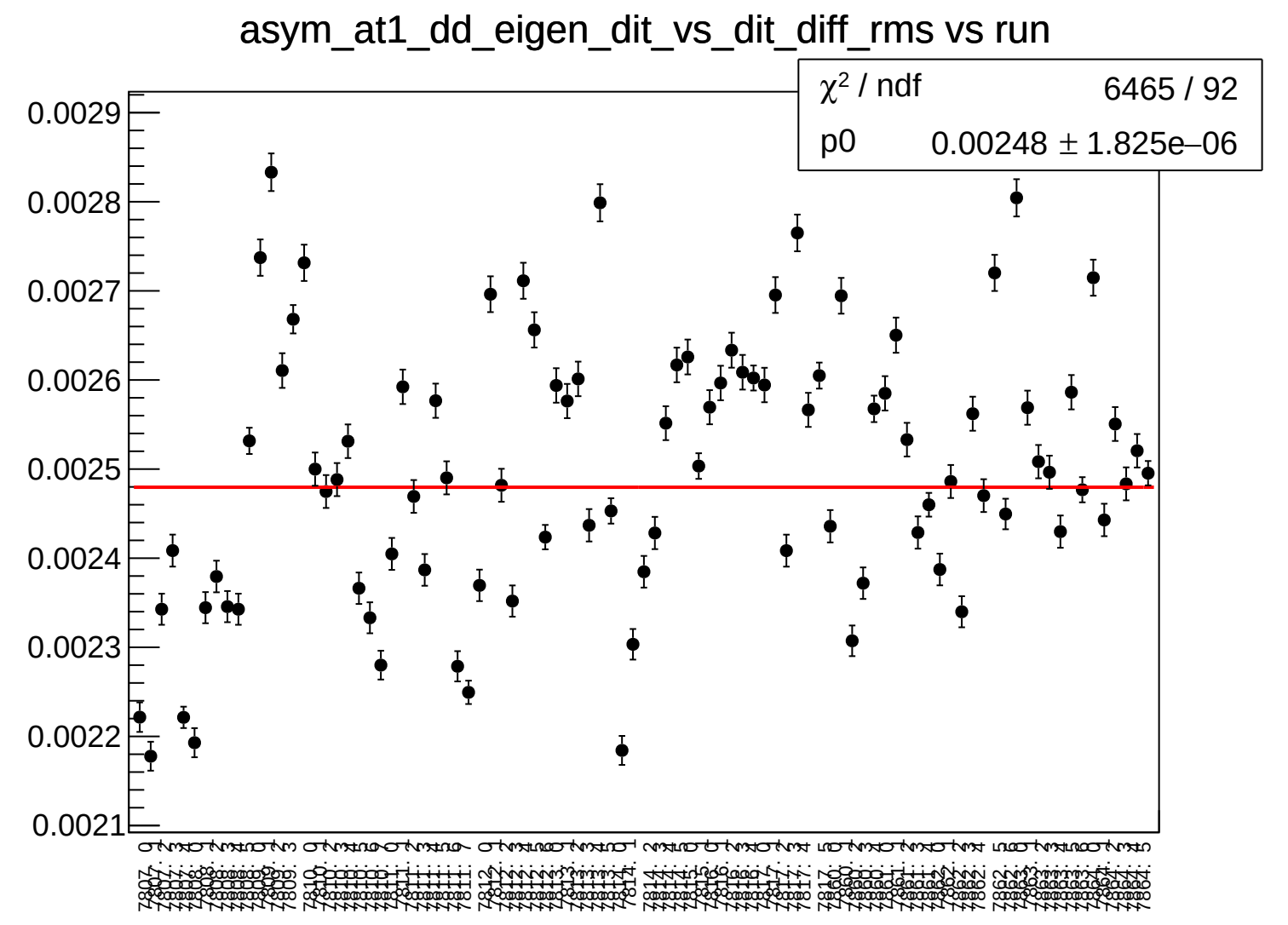

asym_at1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 91.39 / 92
p0 0.06777 ± 0.06501
pull
Entries 93
Mean −70.38
Std Dev 0
pull1D
Entries 93
Mean 0.0192
Std Dev 0.9911

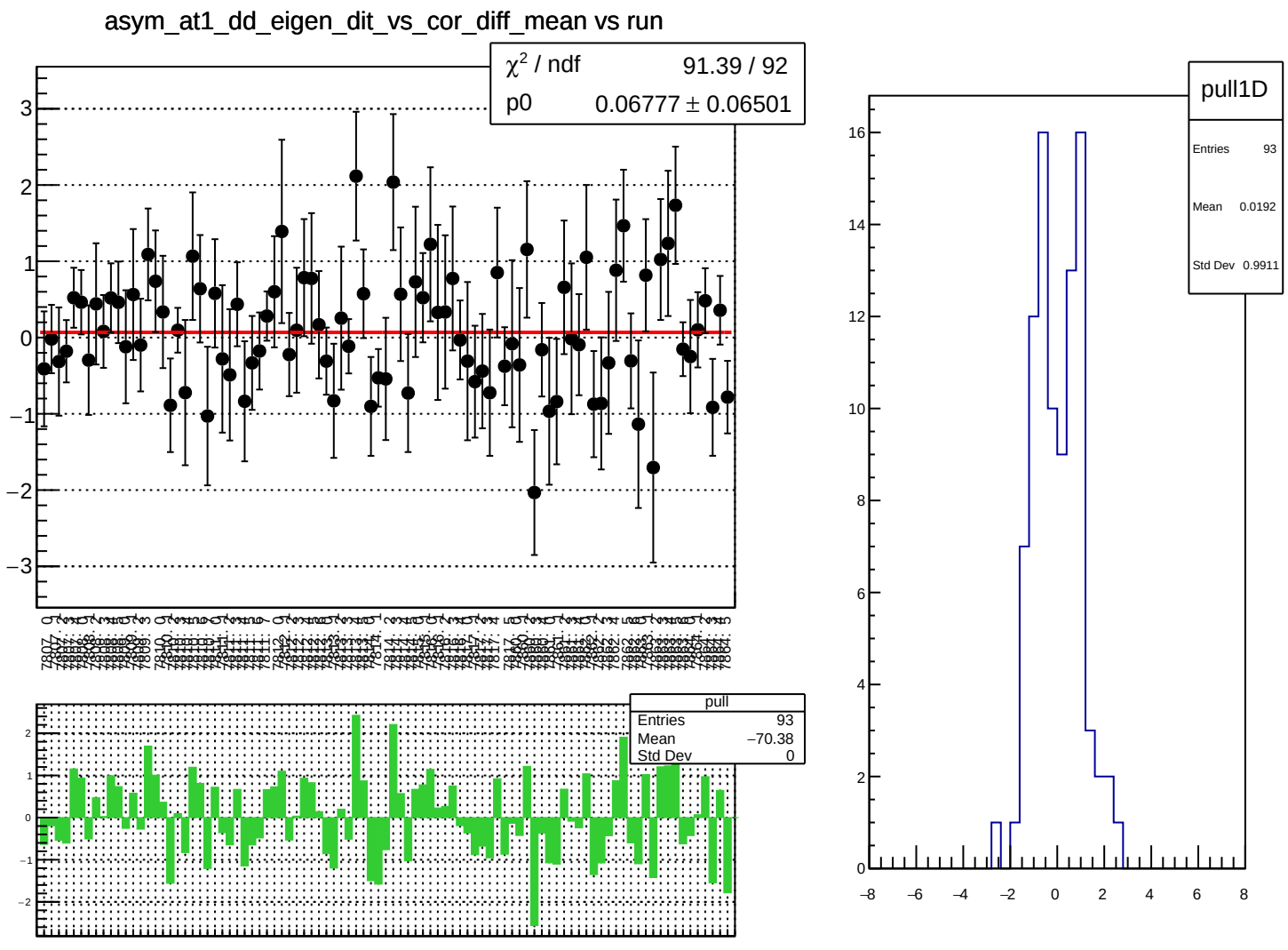

asym_at1_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.799e+05 / 92
p0 59.43 ± 0.04597
120
100
80
60
40
20

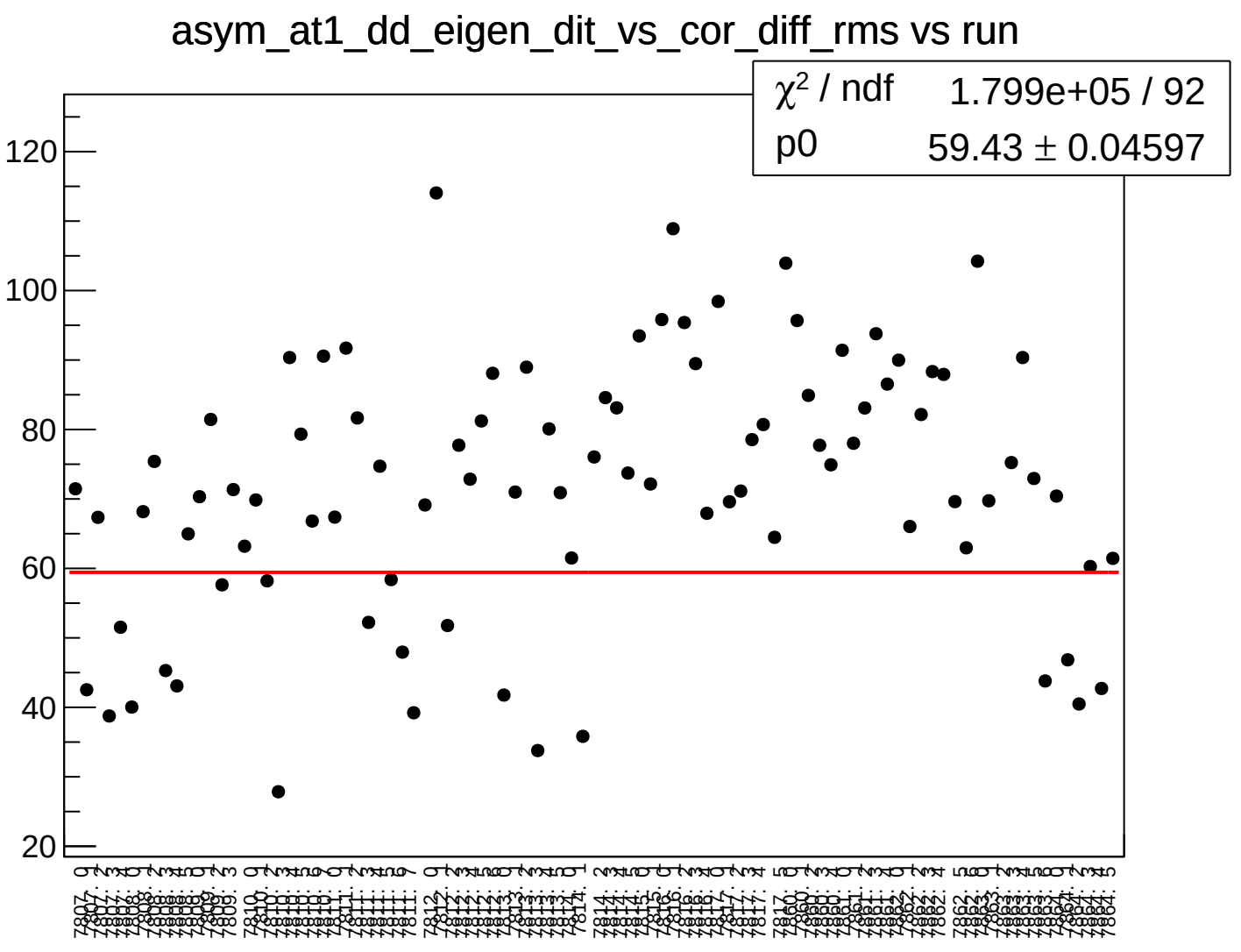

asym_at1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.39 / 92
p0 0.06777 ± 0.06501
pull
Entries 93
Mean −70.38
Std Dev 0
pull1D
Entries 93
Mean 0.0192
Std Dev 0.9911

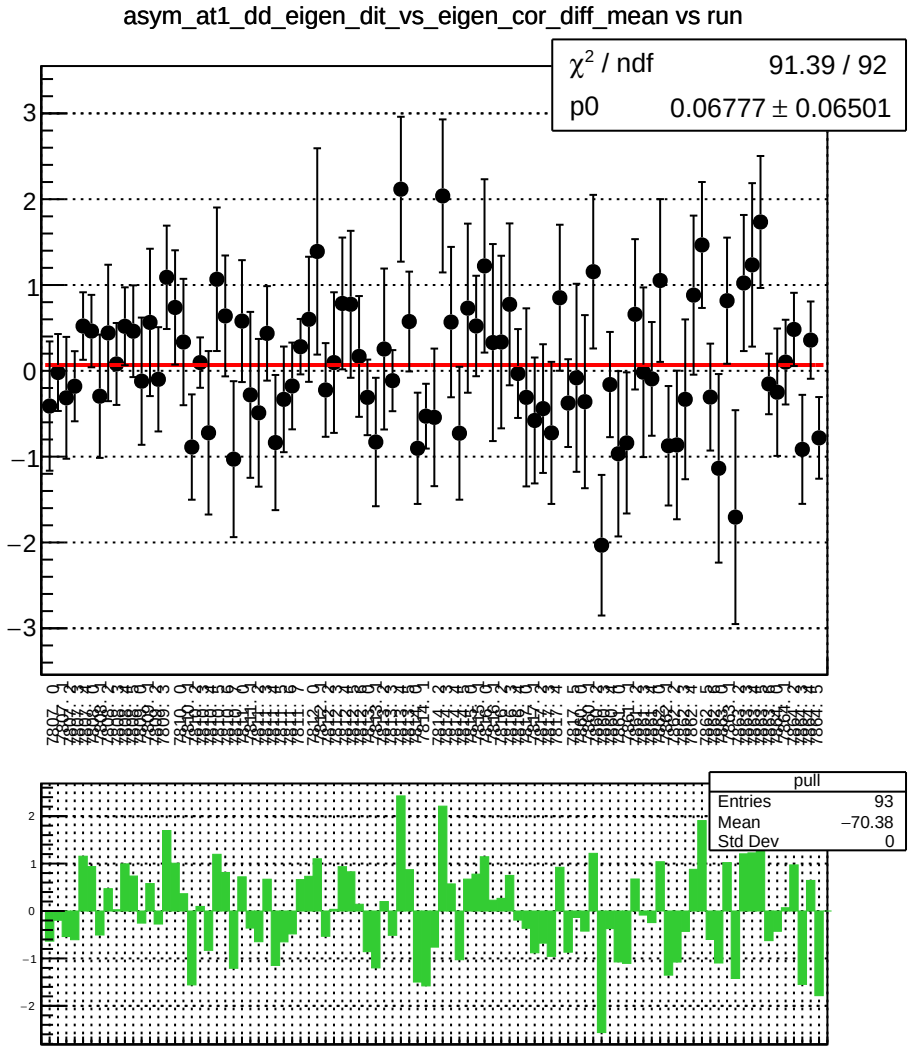

asym_at1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.799e+05 / 92
p0 59.43 ± 0.04597
120
100
80
60
40
20

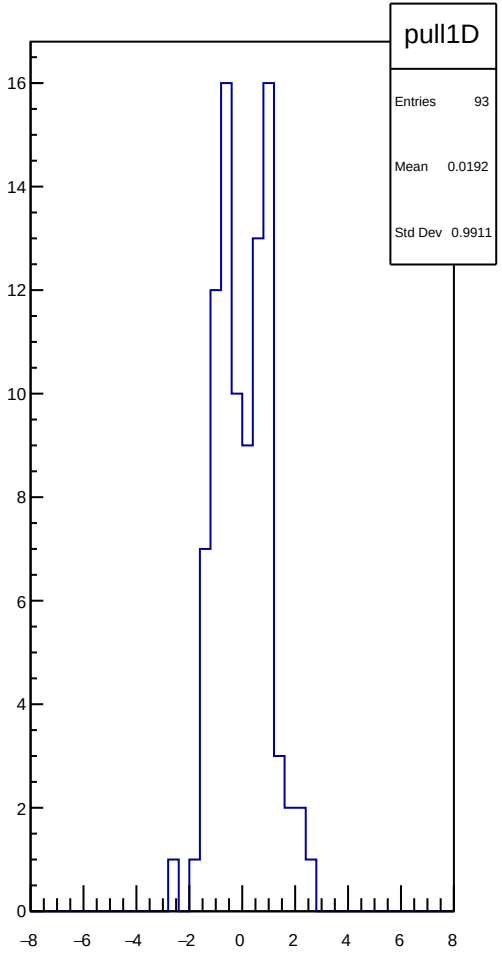

asym_at1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.57 / 92
p0 −1.525e−06 ± 2.582e−06
pull
Entries 93
Mean −973
Std Dev 0
pull1D
Entries 93
Mean −0.00285
Std Dev 0.9923

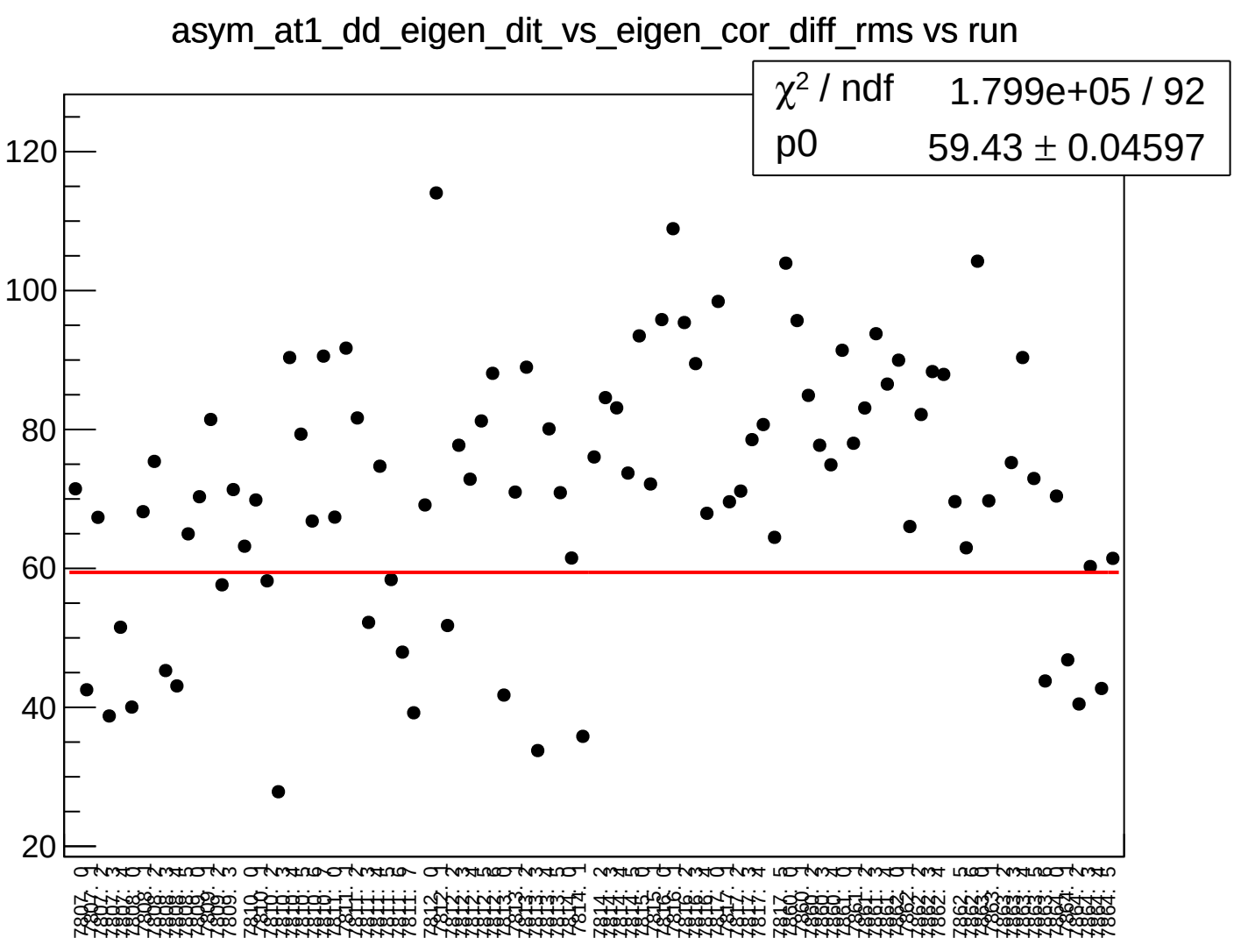

asym_at1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6465 / 92
p0 0.00248 ± 1.825e−06
0.0029
0.0028
0.0027
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021

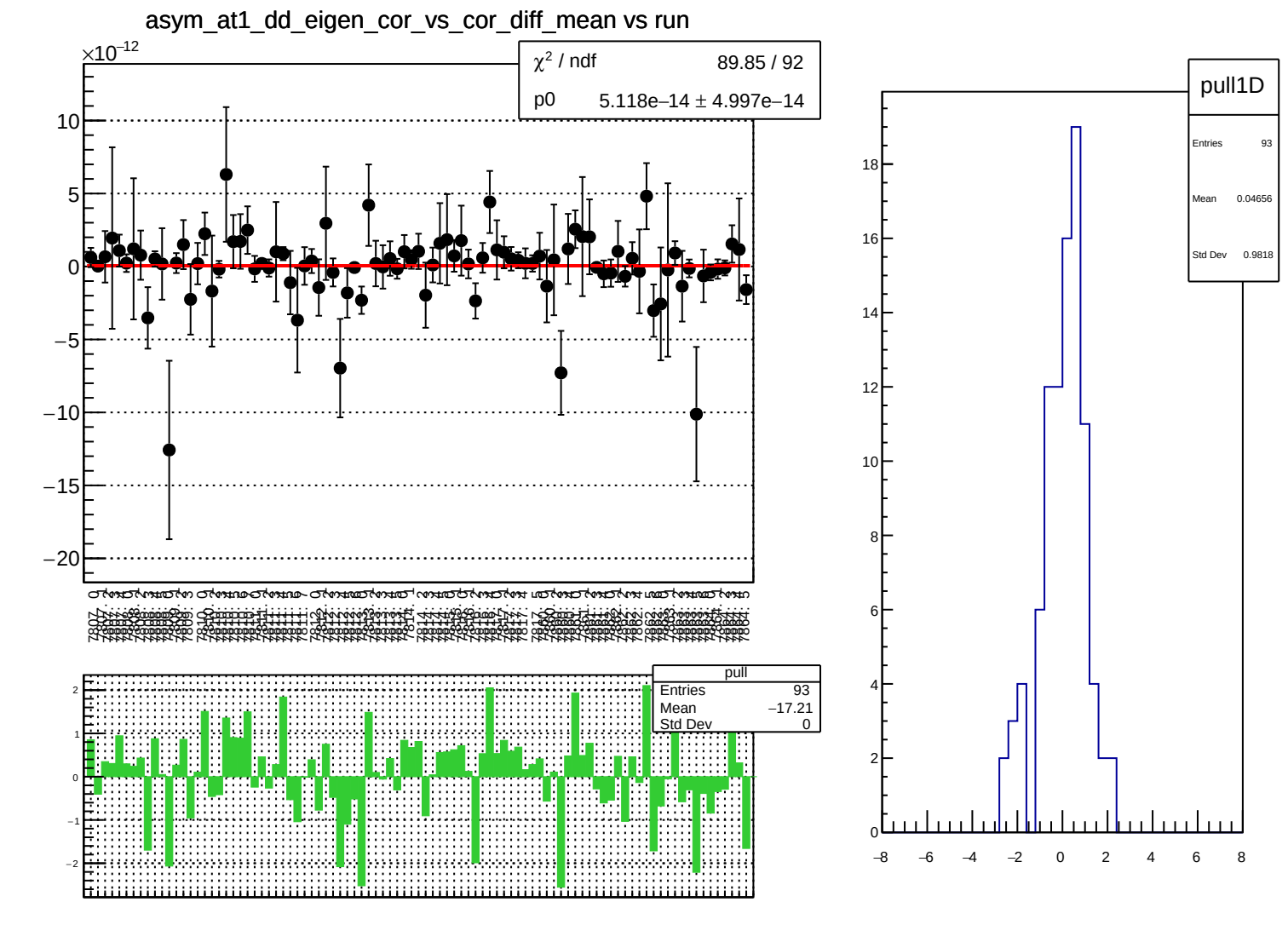

asym_at1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.39 / 92
p0 0.06777 ± 0.06501
pull
Entries 93
Mean −70.38
Std Dev 0
pull1D
Entries 93
Mean 0.0192
Std Dev 0.9911

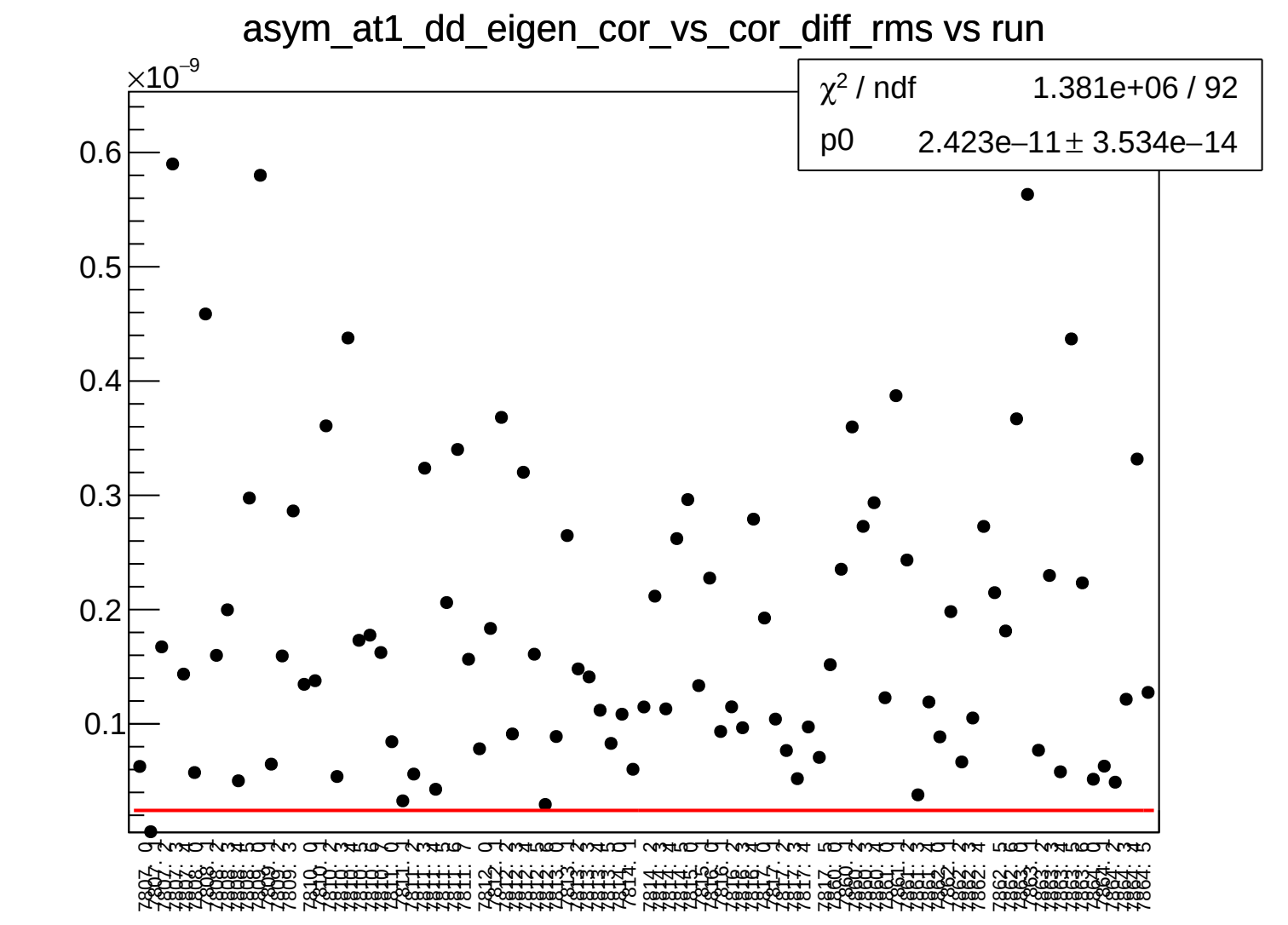

asym_at1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.799e+05 / 92
p0 59.43 ± 0.04597
120
100
80
60
40
20

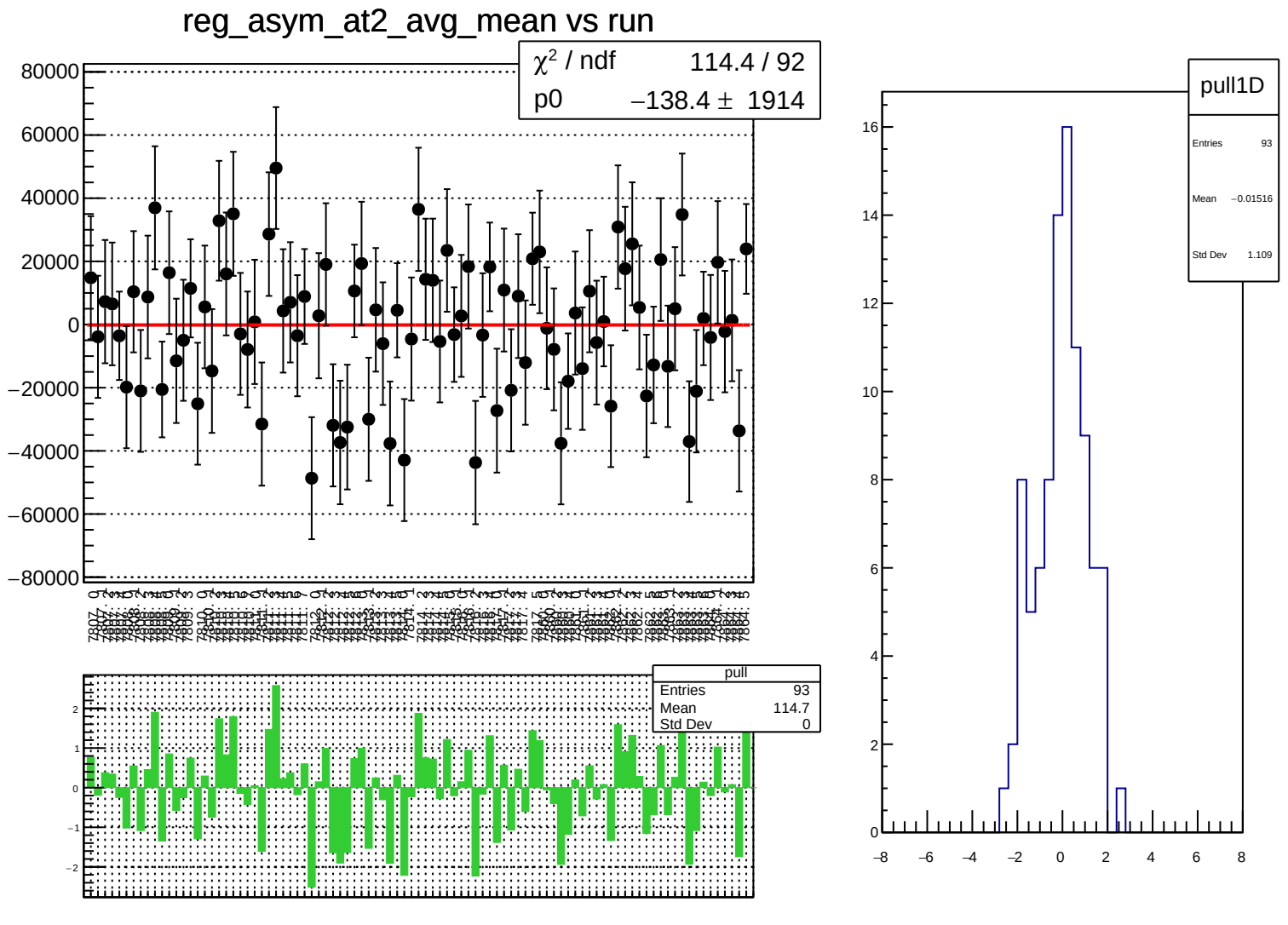

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.39 / 92
p0 0.06777 ± 0.06501
pull
Entries 93
Mean −70.38
Std Dev 0

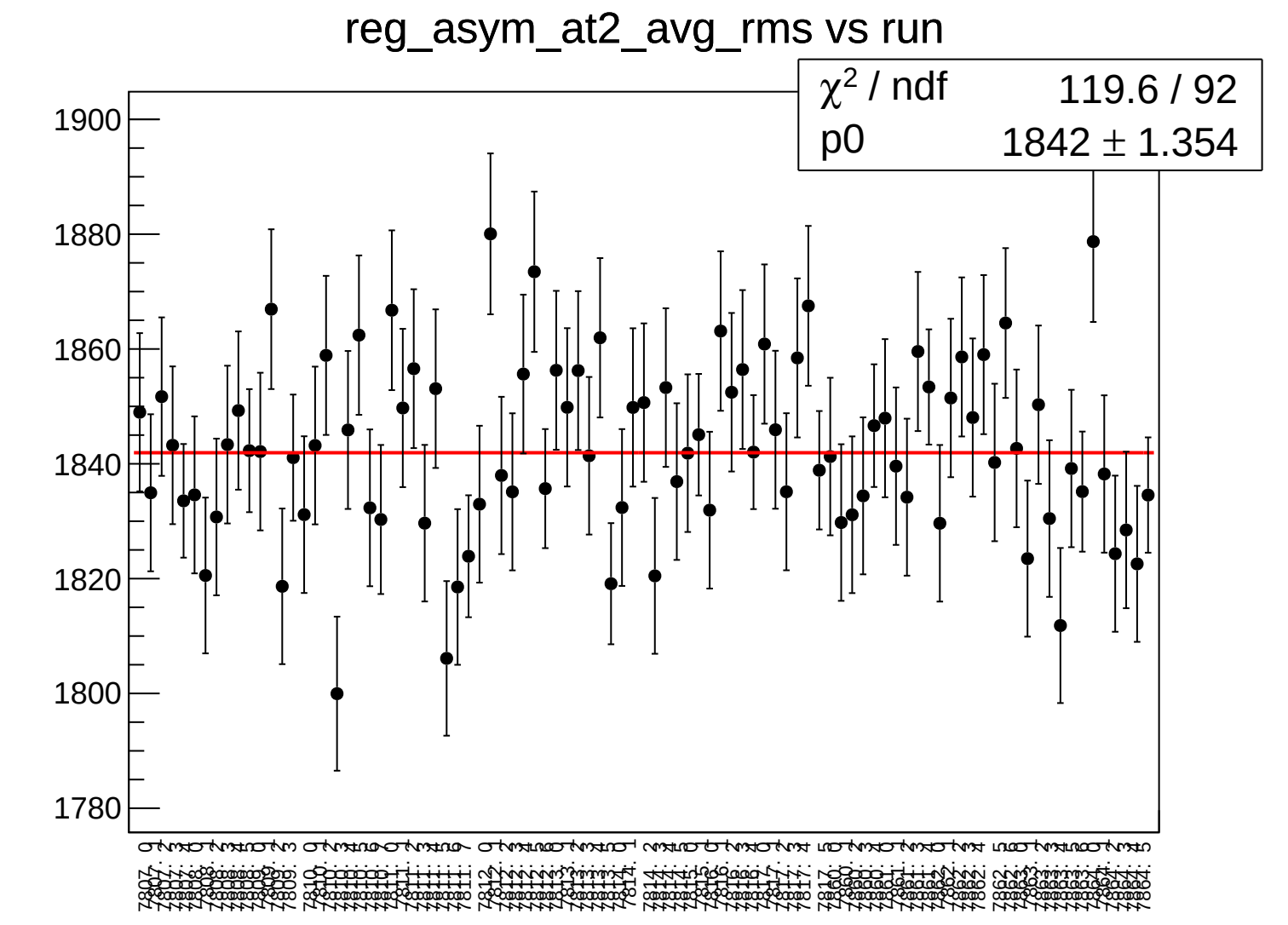

pull1D
Entries 93
Mean 0.0192
Std Dev 0.9911

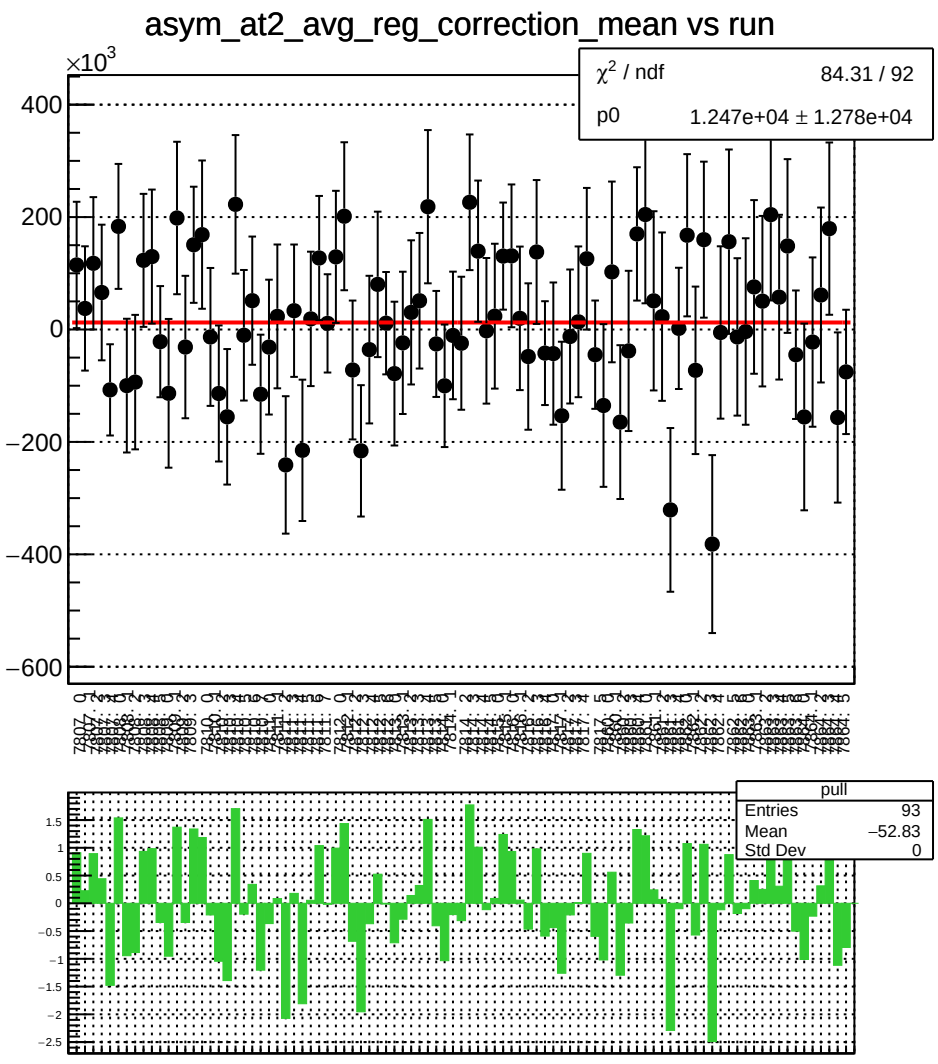

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.799e+05 / 92
p0 59.43 ± 0.04597
120
100
80
60
40
20

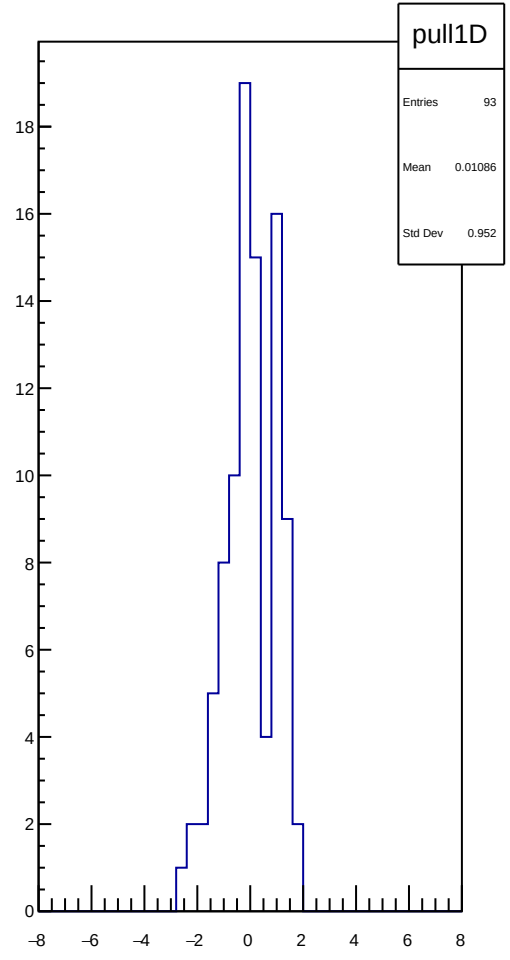

asym_at1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.85 / 92
p0 5.118e−14 ± 4.997e−14
pull
Entries 93
Mean −17.21
Std Dev 0
pull1D
Entries 93
Mean 0.04656
Std Dev 0.9818

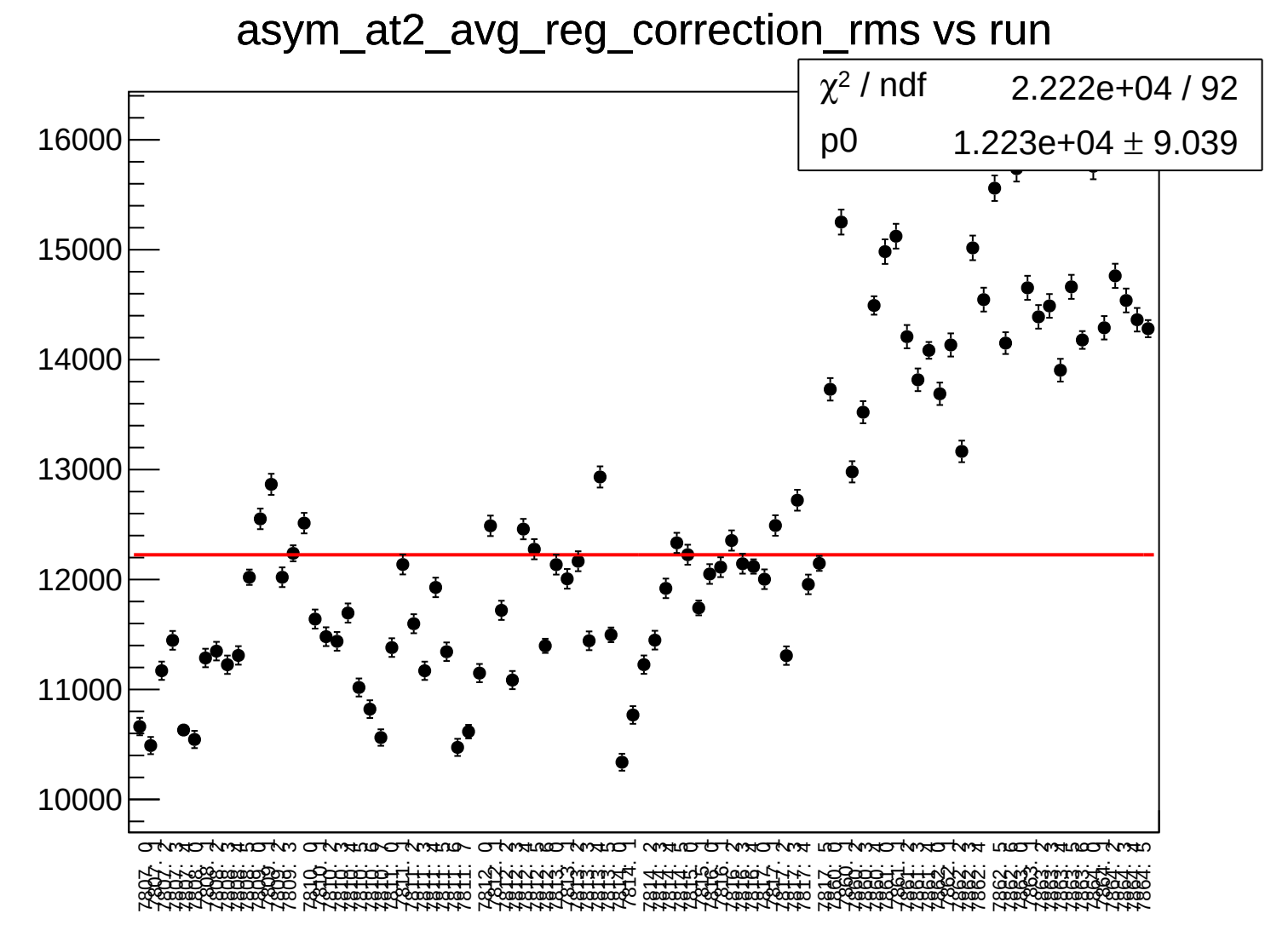

asym_at1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.381e+06 / 92
p0 2.423e−11 ± 3.534e−14
0.6
0.5
0.4
0.3
0.2
0.1

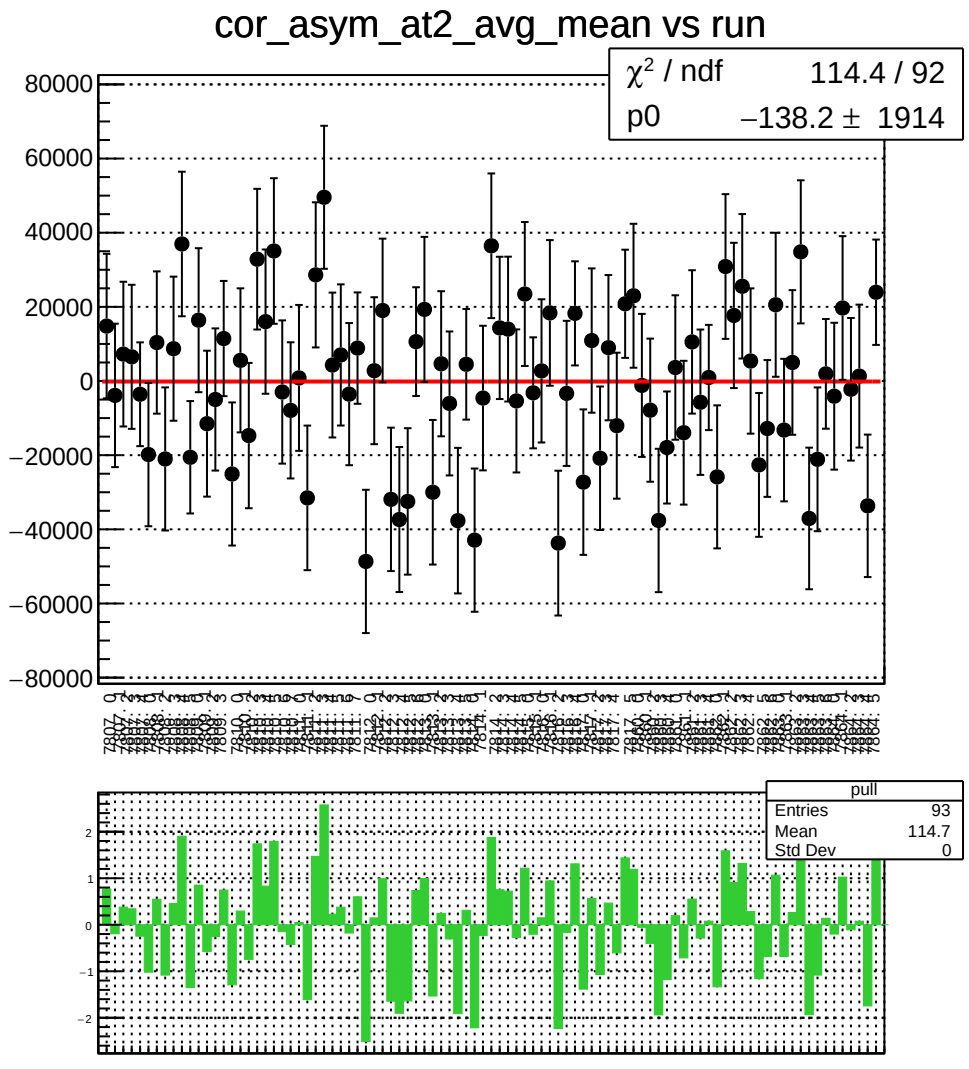

reg_asym_at2_avg_mean vs run
χ² / ndf 114.4 / 92
p0 −138.4 ± 1914
pull
Entries 93
Mean 114.7
Std Dev 0
pull1D
Entries 93
Mean −0.01516
Std Dev 1.109

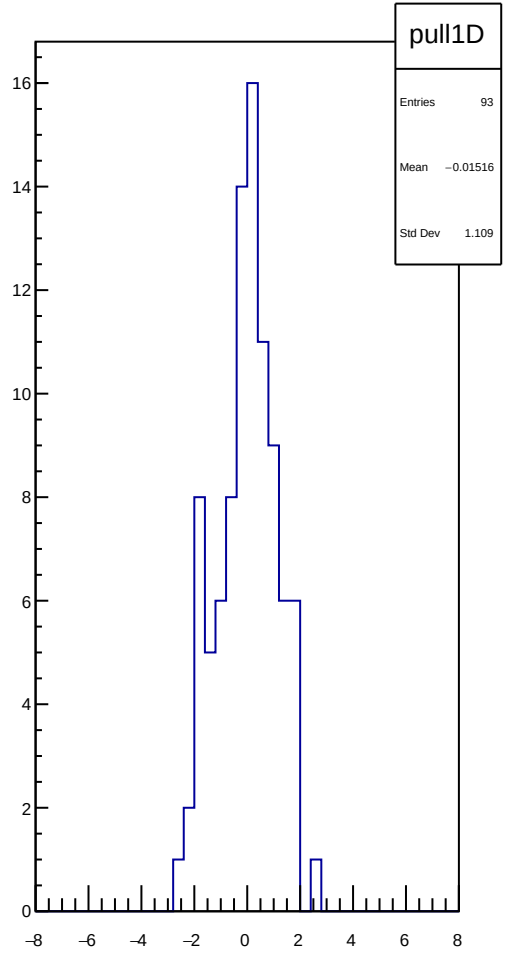

reg_asym_at2_avg_rms vs run
χ² / ndf 119.6 / 92
p0 1842 ± 1.354
1900
1880
1860
1840
1820
1800
1780

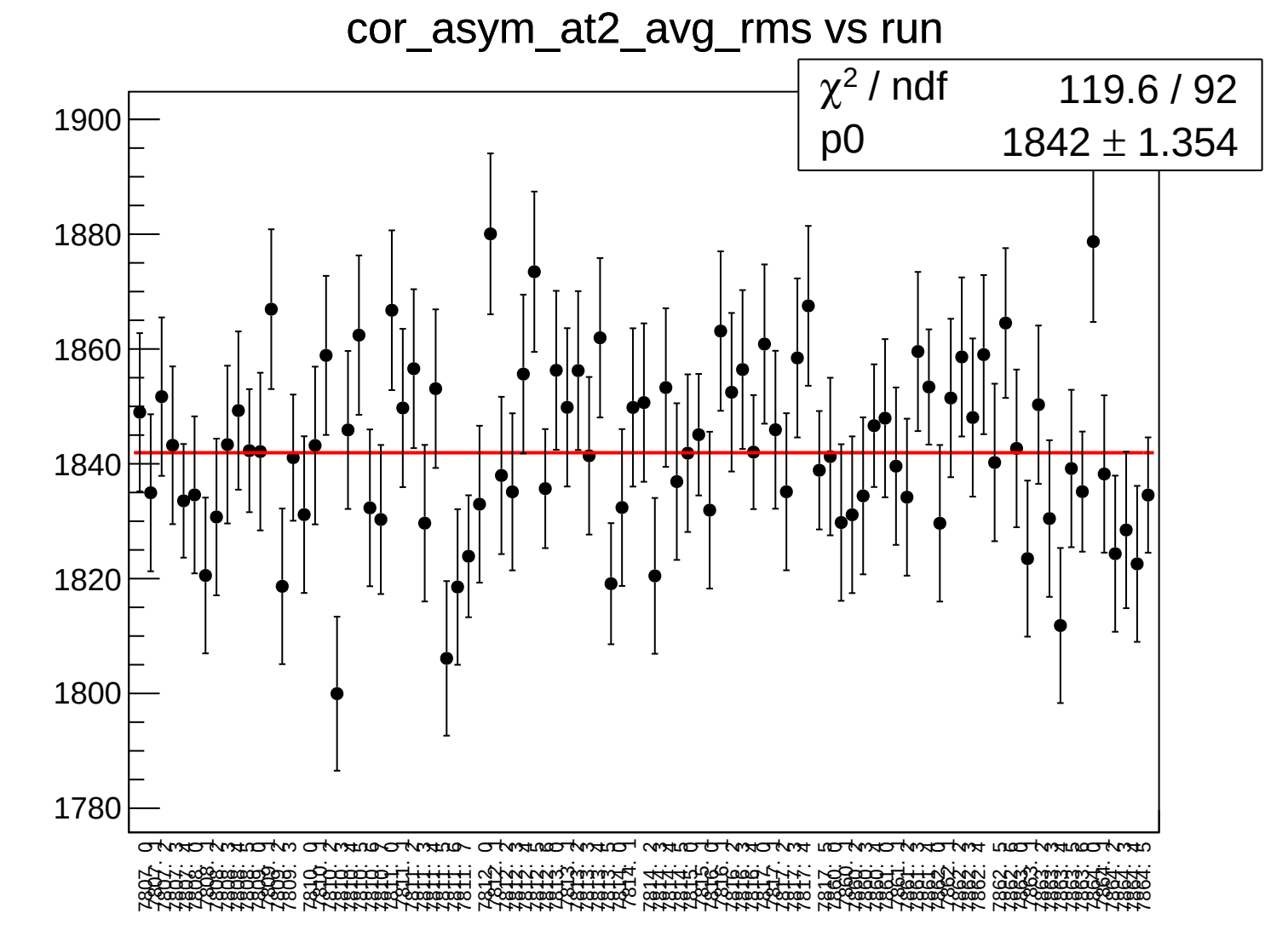

asym_at2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 84.31 / 92
p0 1.247e+04 ± 1.278e+04
pull
Entries 93
Mean −52.83
Std Dev 0

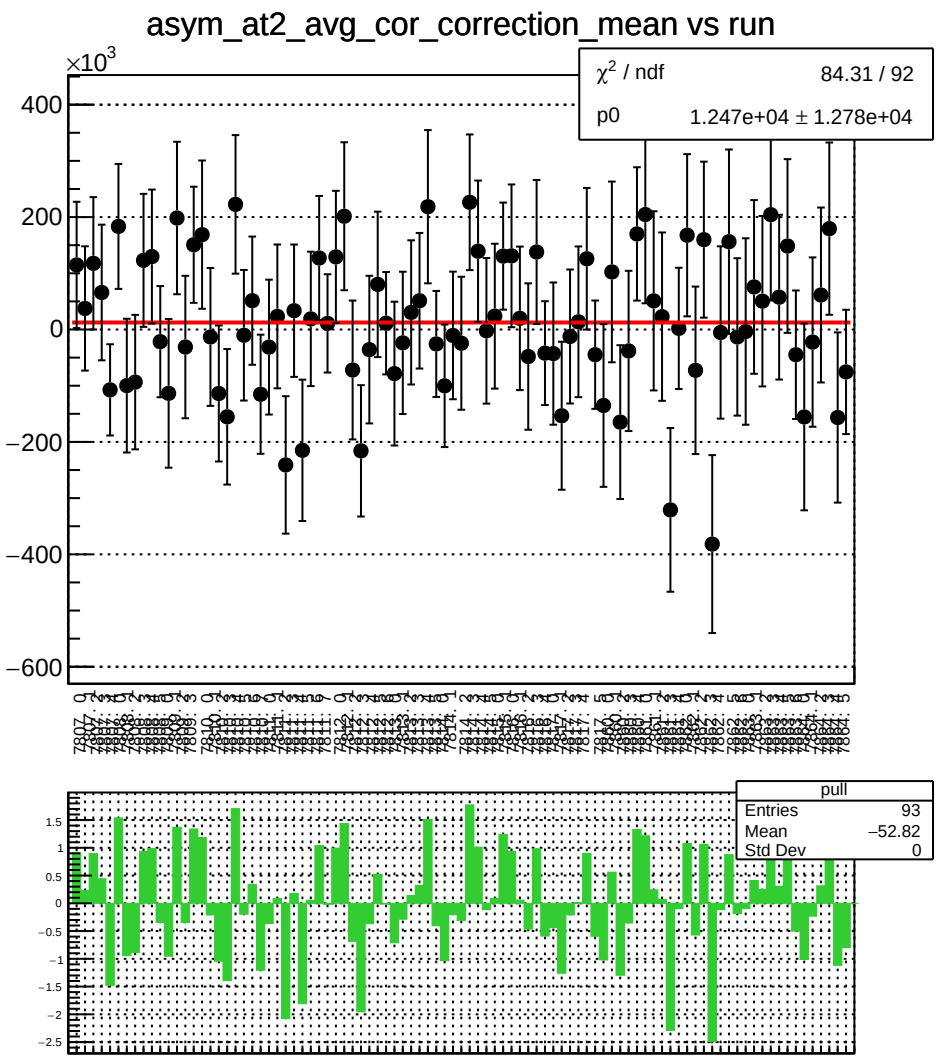

pull1D
Entries 93
Mean 0.01086
Std Dev 0.952

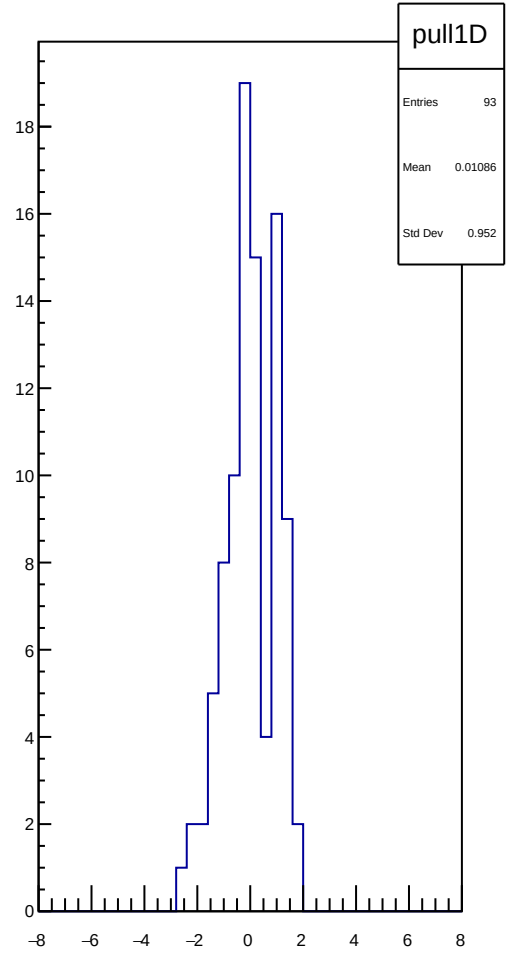

asym_at2_avg_reg_correction_rms vs run
χ² / ndf 2.222e+04 / 92
p0 1.223e+04 ± 9.039
16000
15000
14000
13000
12000
11000
10000

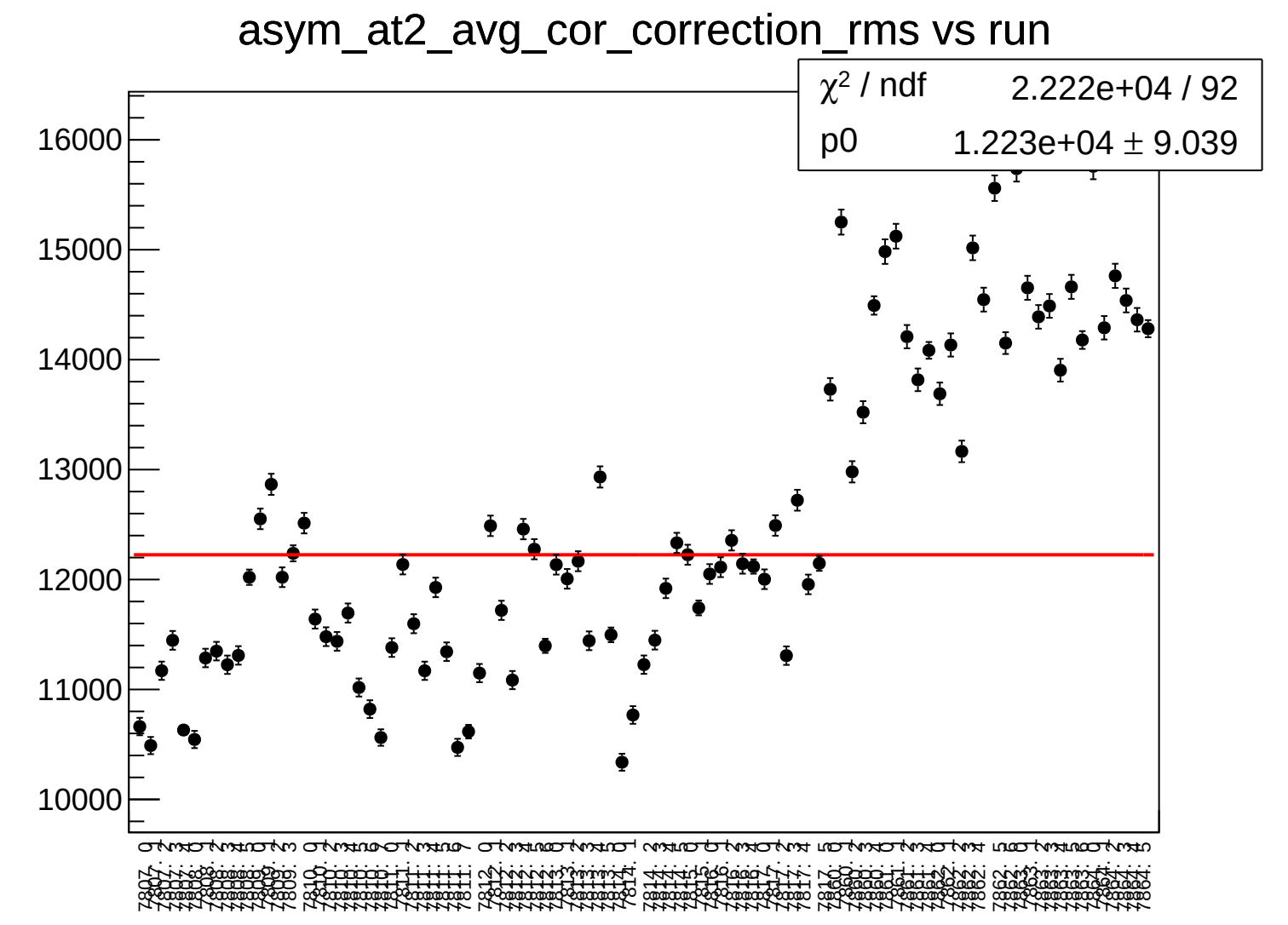

cor_asym_at2_avg_mean vs run
χ² / ndf 114.4 / 92
p0 −138.2 ± 1914
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean 114.7
Std Dev 0
2
1
0
−1
−2

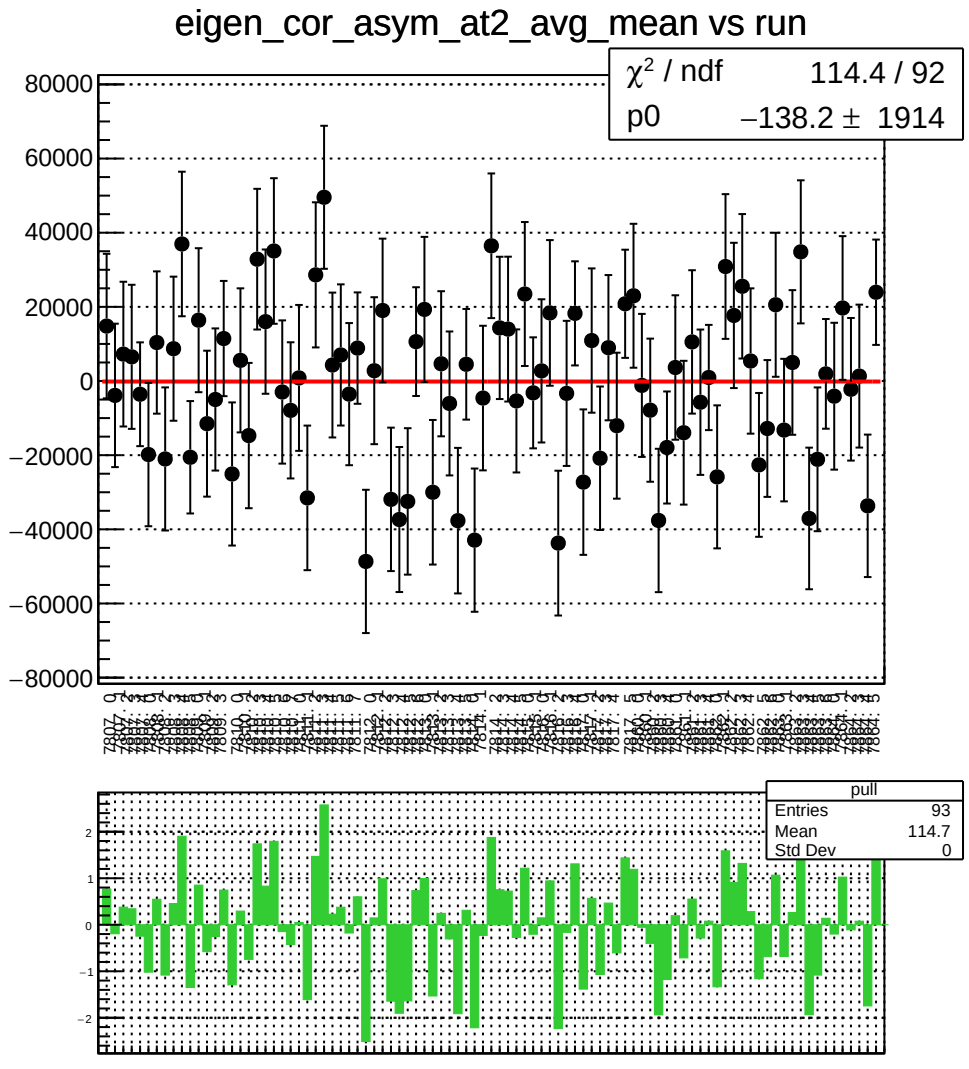

pull1D
Entries 93
Mean −0.01516
Std Dev 1.109
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

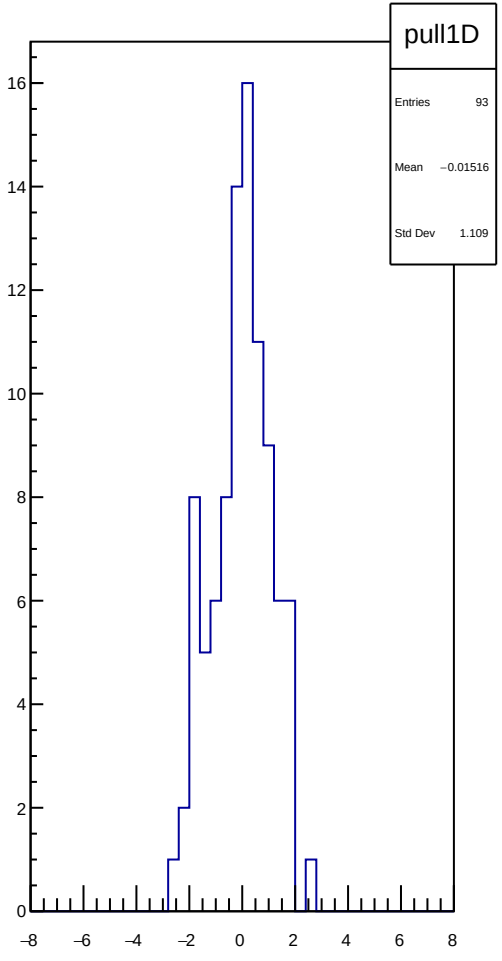

cor_asym_at2_avg_rms vs run
χ² / ndf 119.6 / 92
p0 1842 ± 1.354
1900
1880
1860
1840
1820
1800
1780

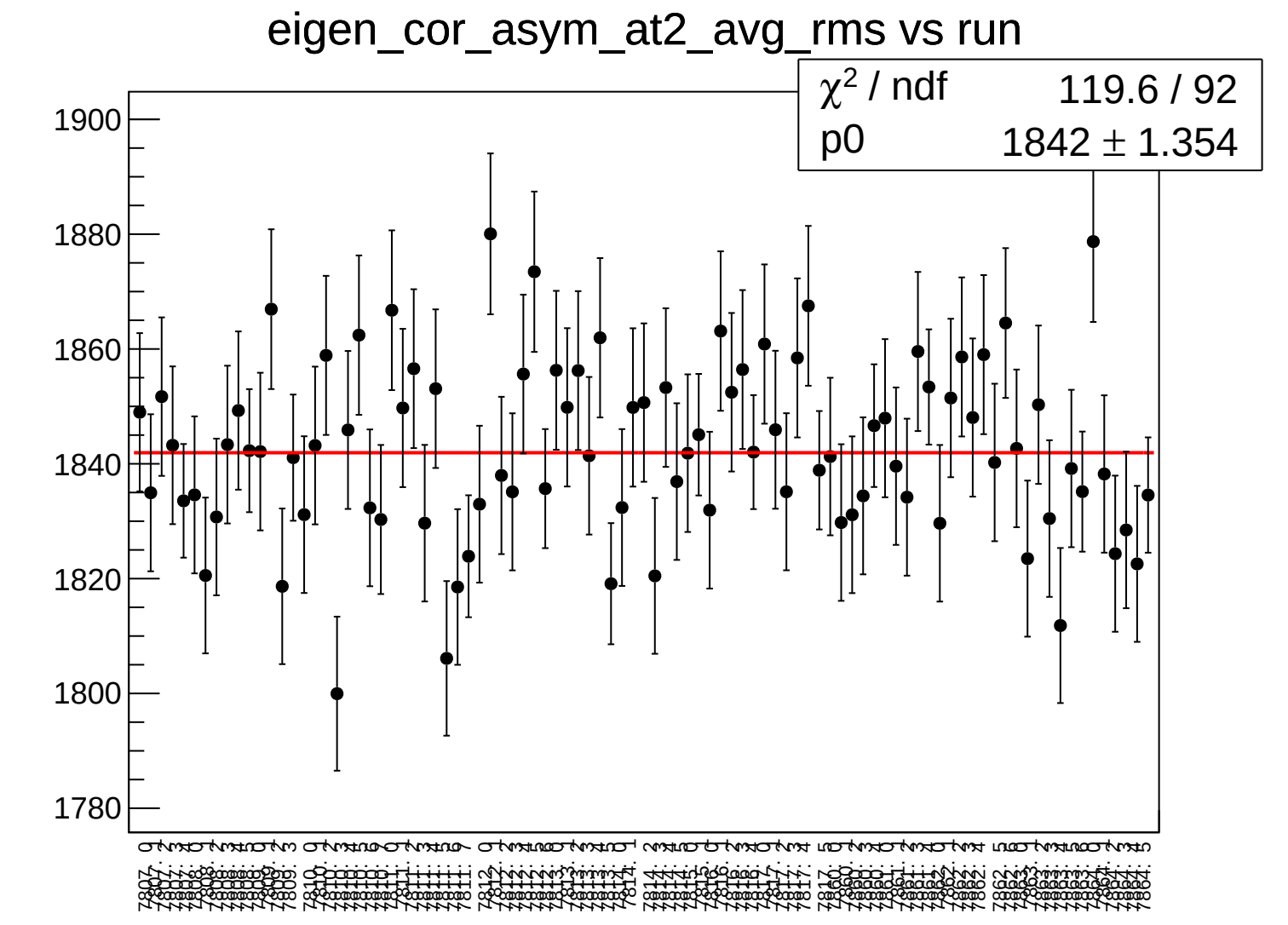

asym_at2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 84.31 / 92
p0 1.247e+04 ± 1.278e+04
pull
Entries 93
Mean −52.82
Std Dev 0

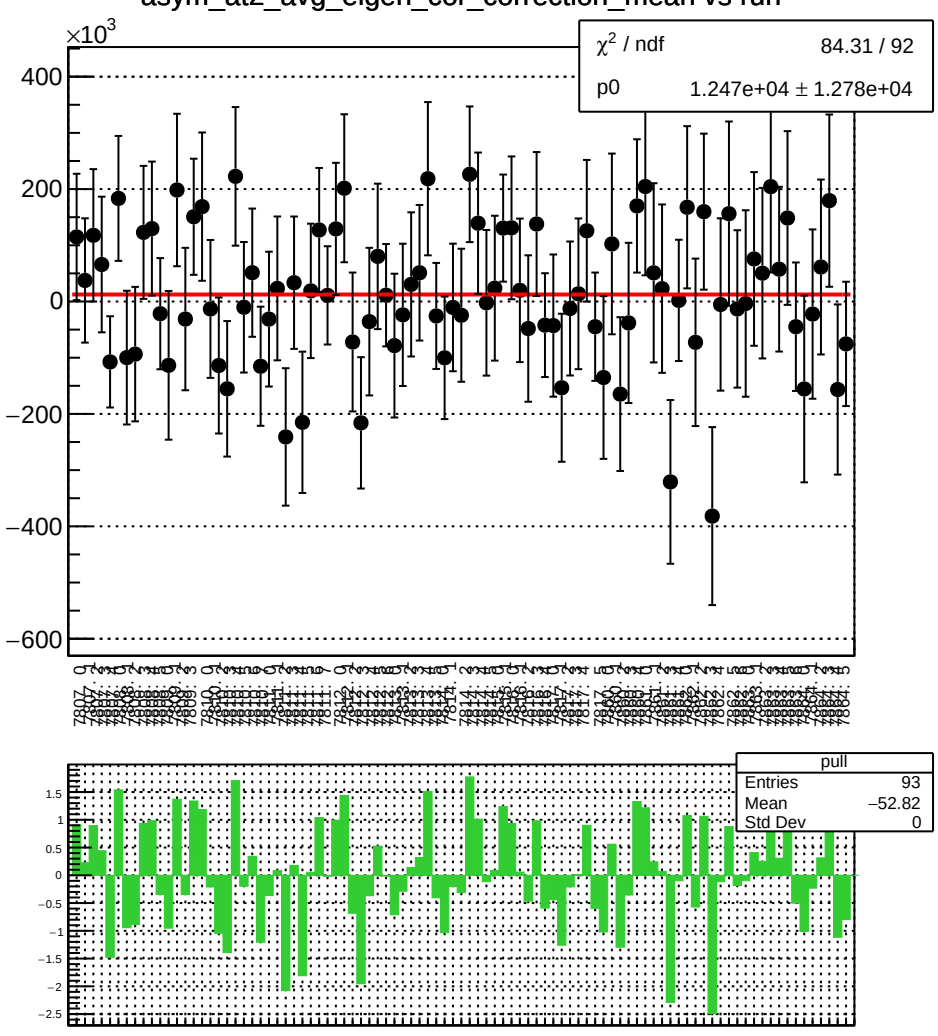

pull1D
Entries 93
Mean 0.01086
Std Dev 0.952

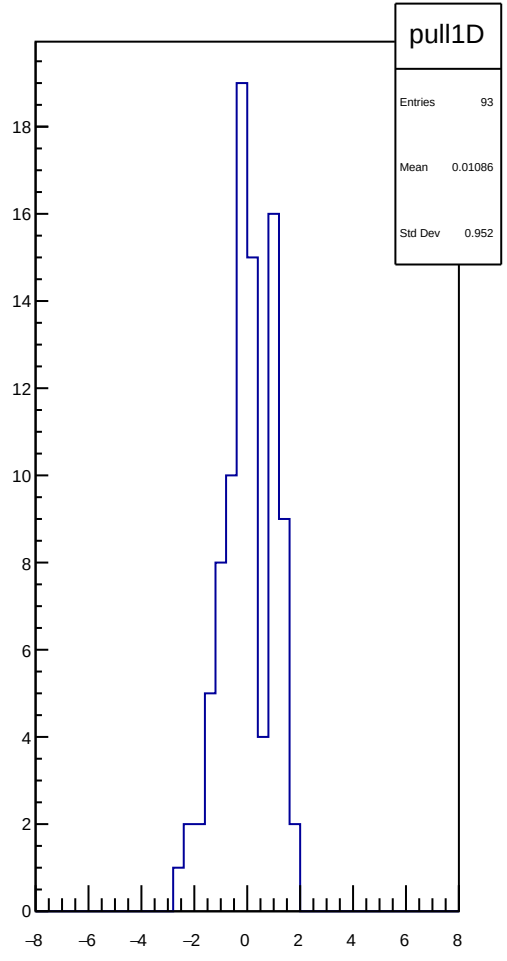

asym_at2_avg_cor_correction_rms vs run
χ² / ndf 2.222e+04 / 92
p0 1.223e+04 ± 9.039
16000
15000
14000
13000
12000
11000
10000

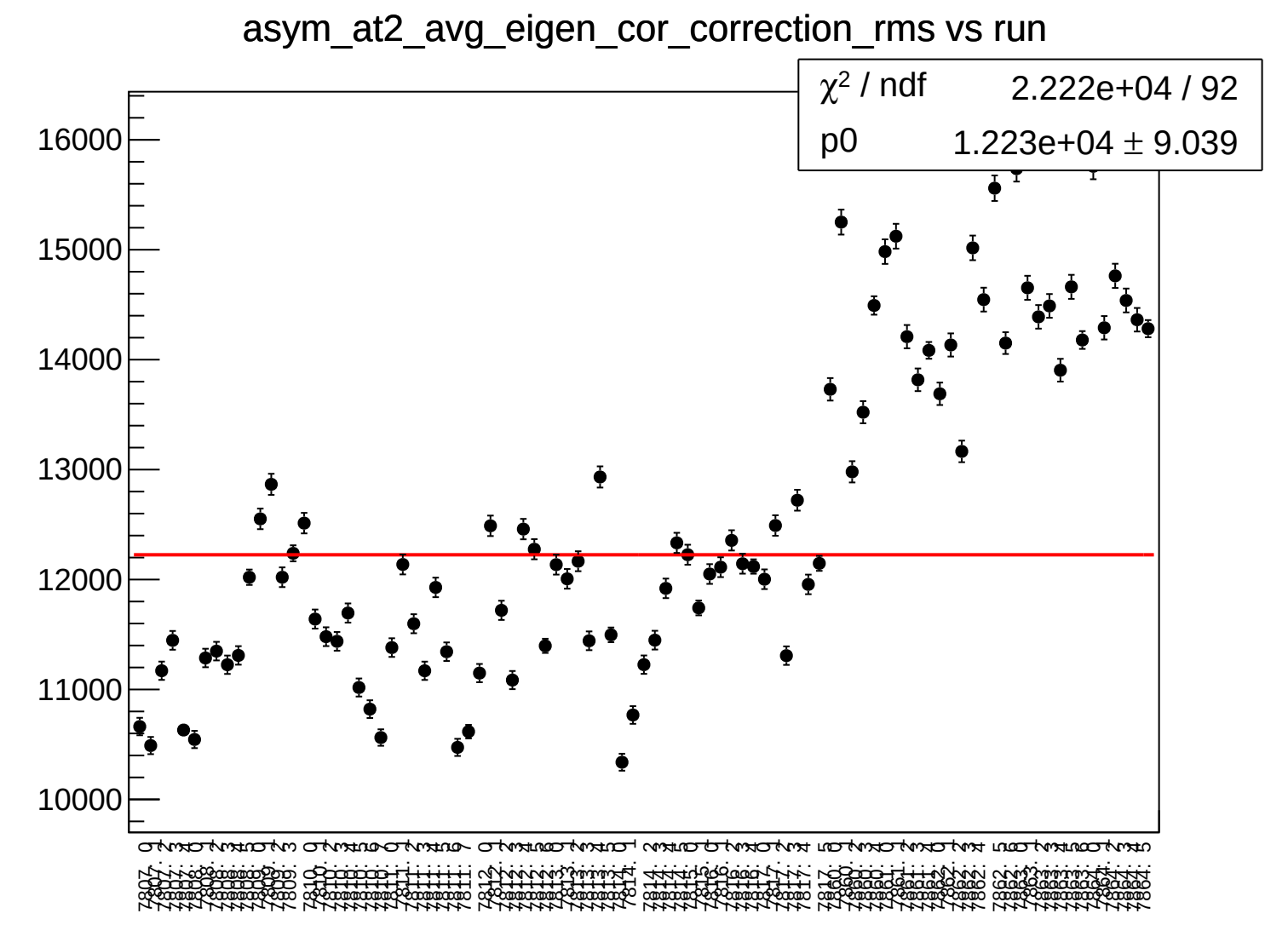

eigen_cor_asym_at2_avg_mean vs run
χ² / ndf 114.4 / 92
p0 −138.2 ± 1914
pull
Entries 93
Mean 114.7
Std Dev 0

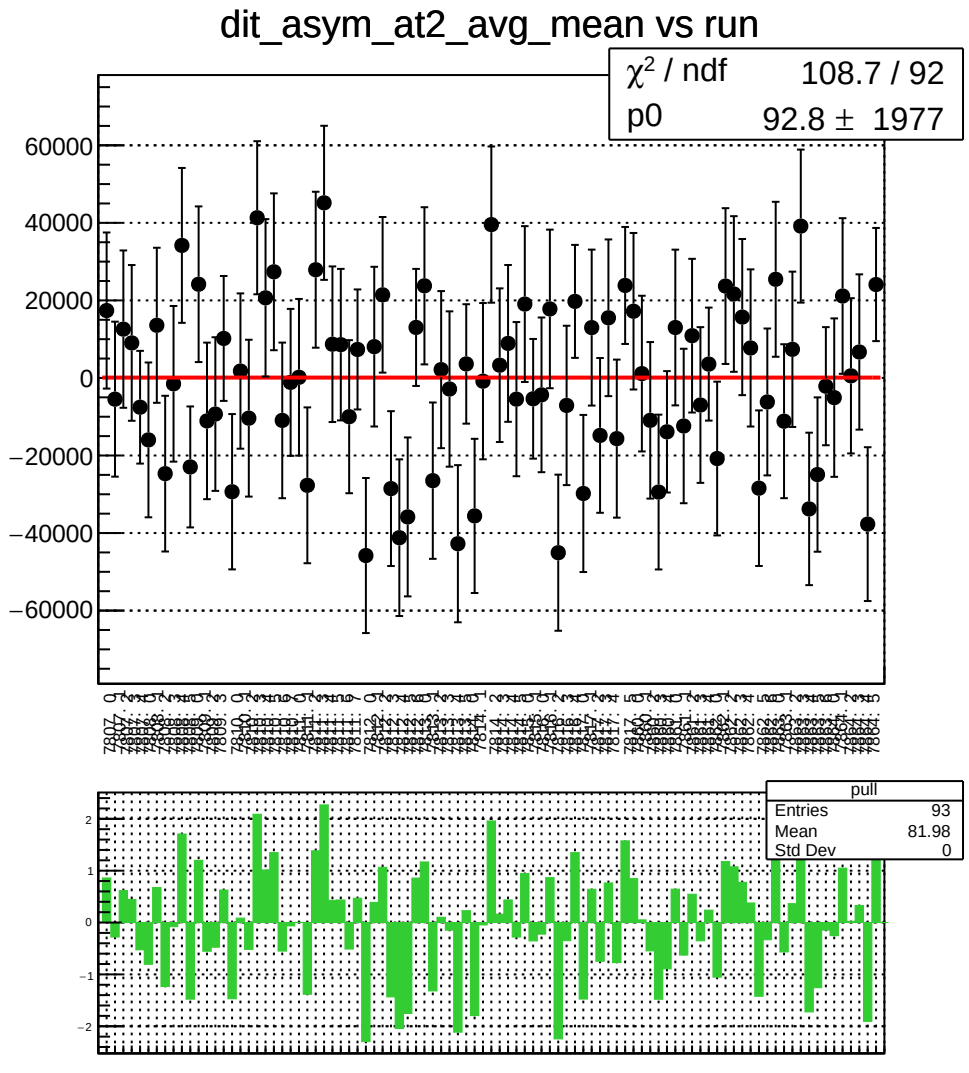

pull1D
Entries 93
Mean −0.01516
Std Dev 1.109

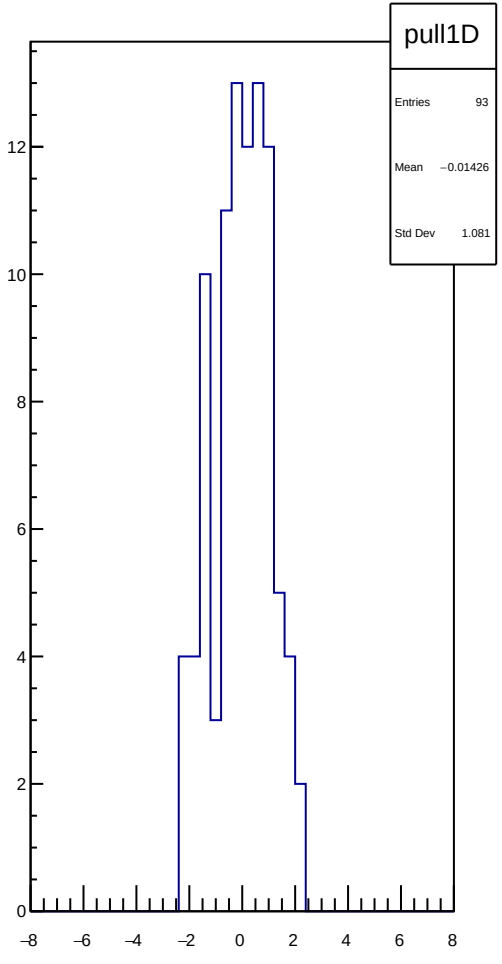

eigen_cor_asym_at2_avg_rms vs run
χ² / ndf 119.6 / 92
p0 1842 ± 1.354
1900
1880
1860
1840
1820
1800
1780

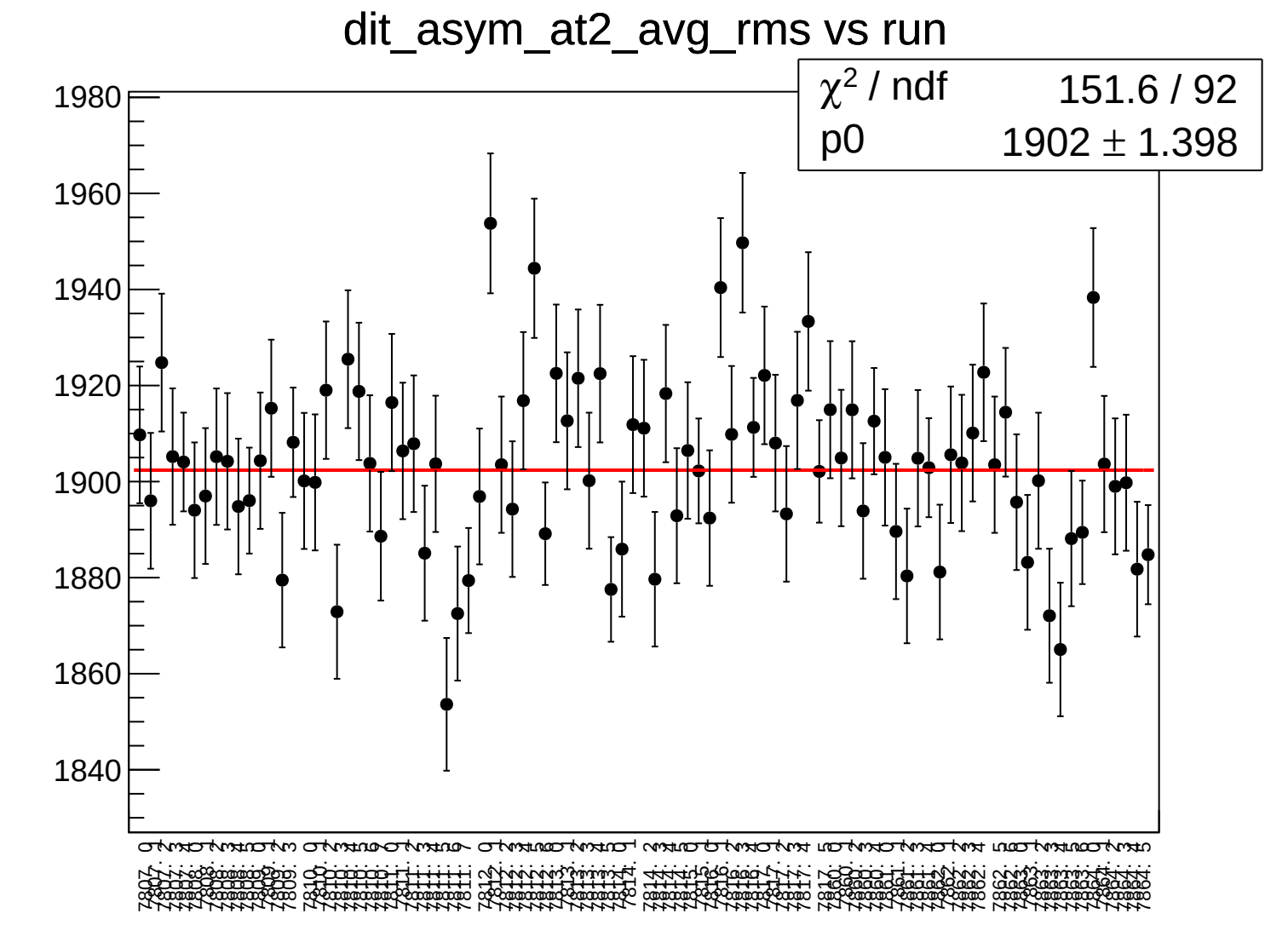

asym_at2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 84.31 / 92
p0 1.247e+04 ± 1.278e+04
400
200
0
−200
−400
−600
pull
Entries 93
Mean −52.82
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

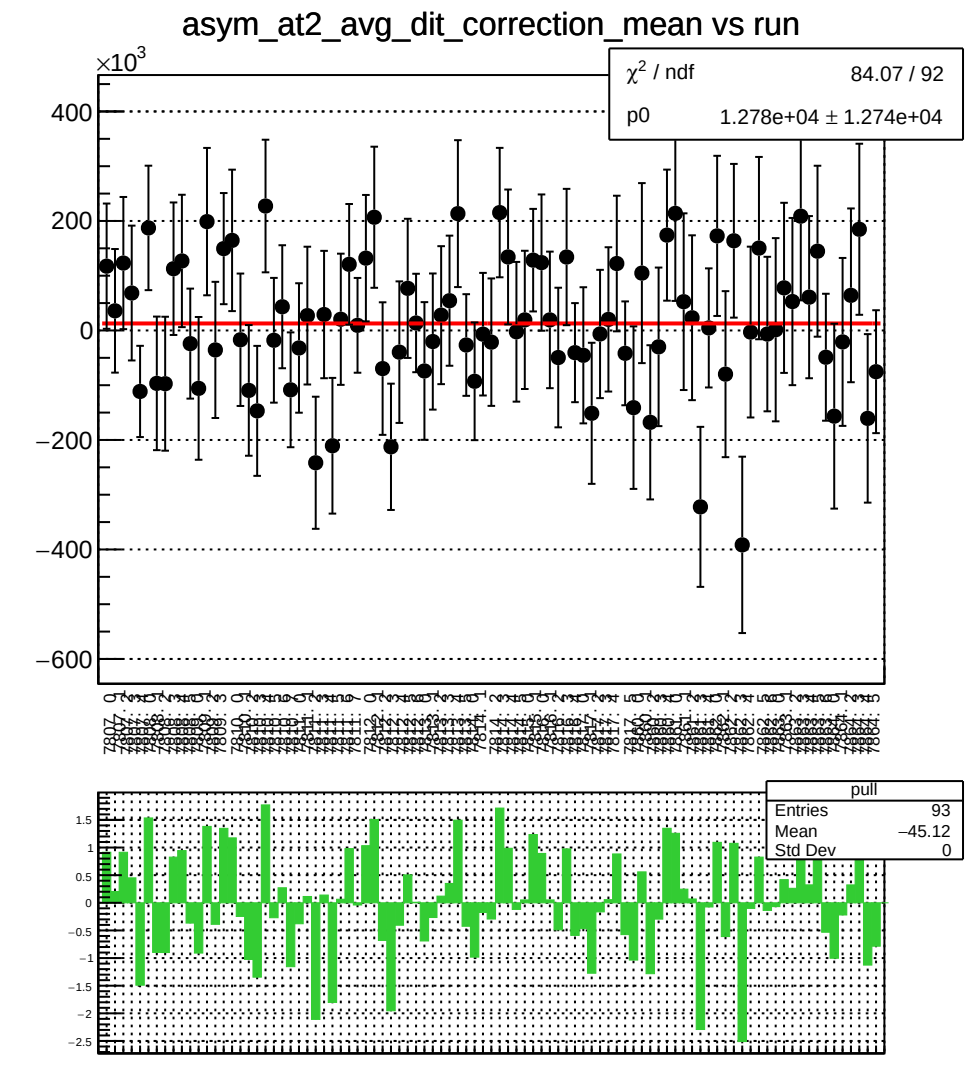

pull1D
Entries 93
Mean 0.01086
Std Dev 0.952
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

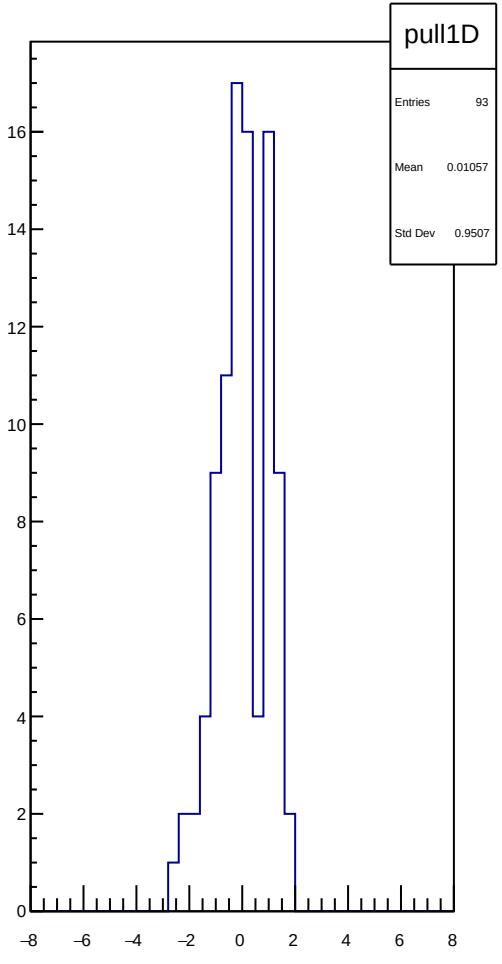

asym_at2_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.222e+04 / 92
p0 1.223e+04 ± 9.039
16000
15000
14000
13000
12000
11000
10000

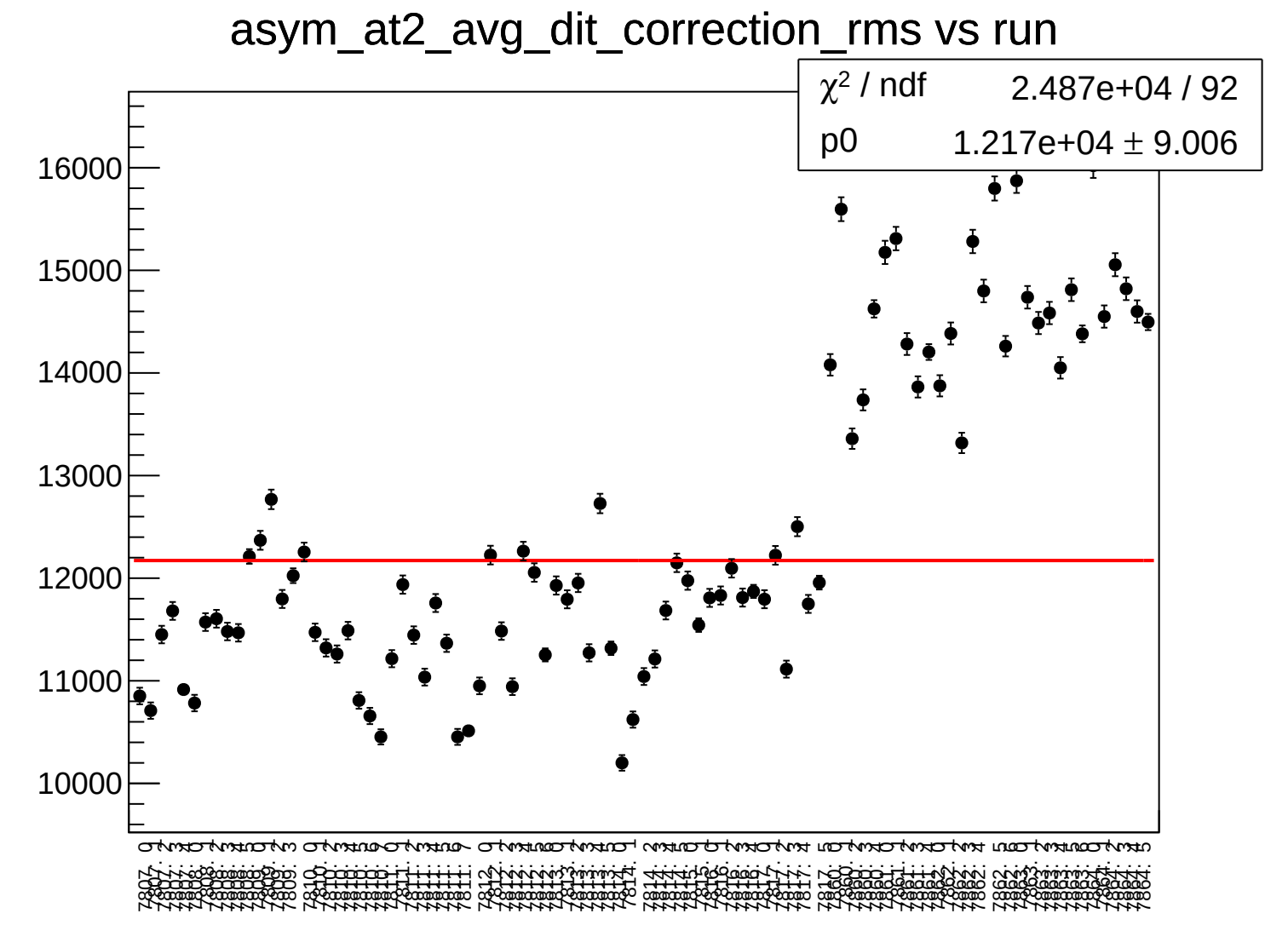

dit_asym_at2_avg_mean vs run
χ² / ndf 108.7 / 92
p0 92.8 ± 1977
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 81.98
Std Dev 0
2
1
0
−1
−2

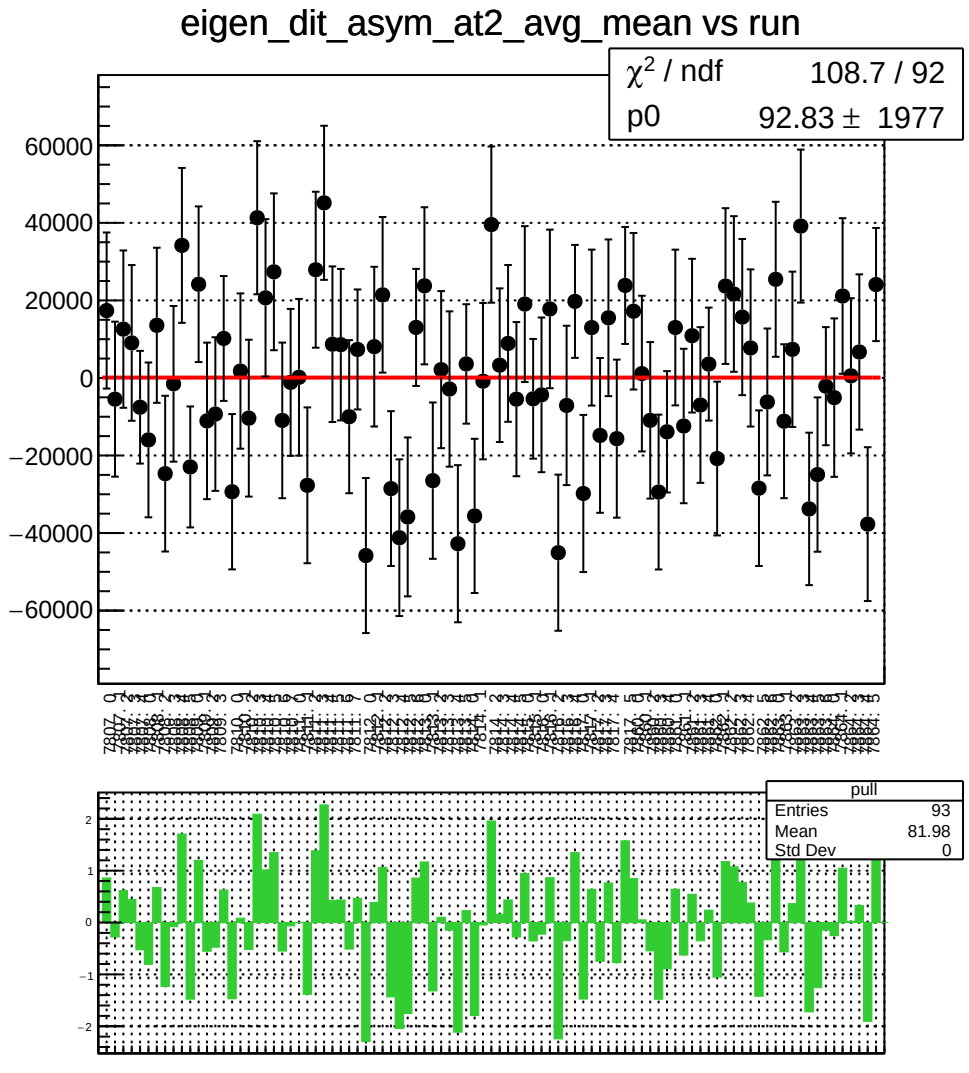

pull1D
Entries 93
Mean −0.01426
Std Dev 1.081
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

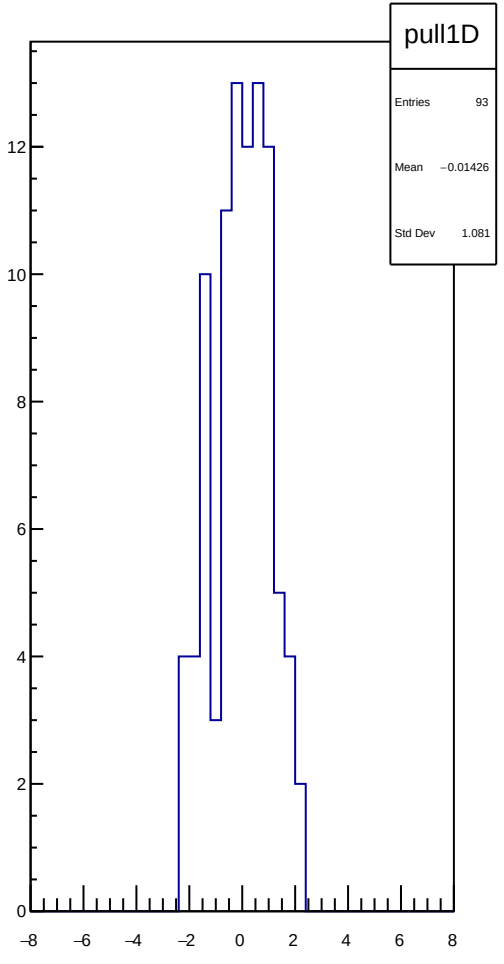

dit_asym_at2_avg_rms vs run
χ² / ndf 151.6 / 92
p0 1902 ± 1.398
1980
1960
1940
1920
1900
1880
1860
1840

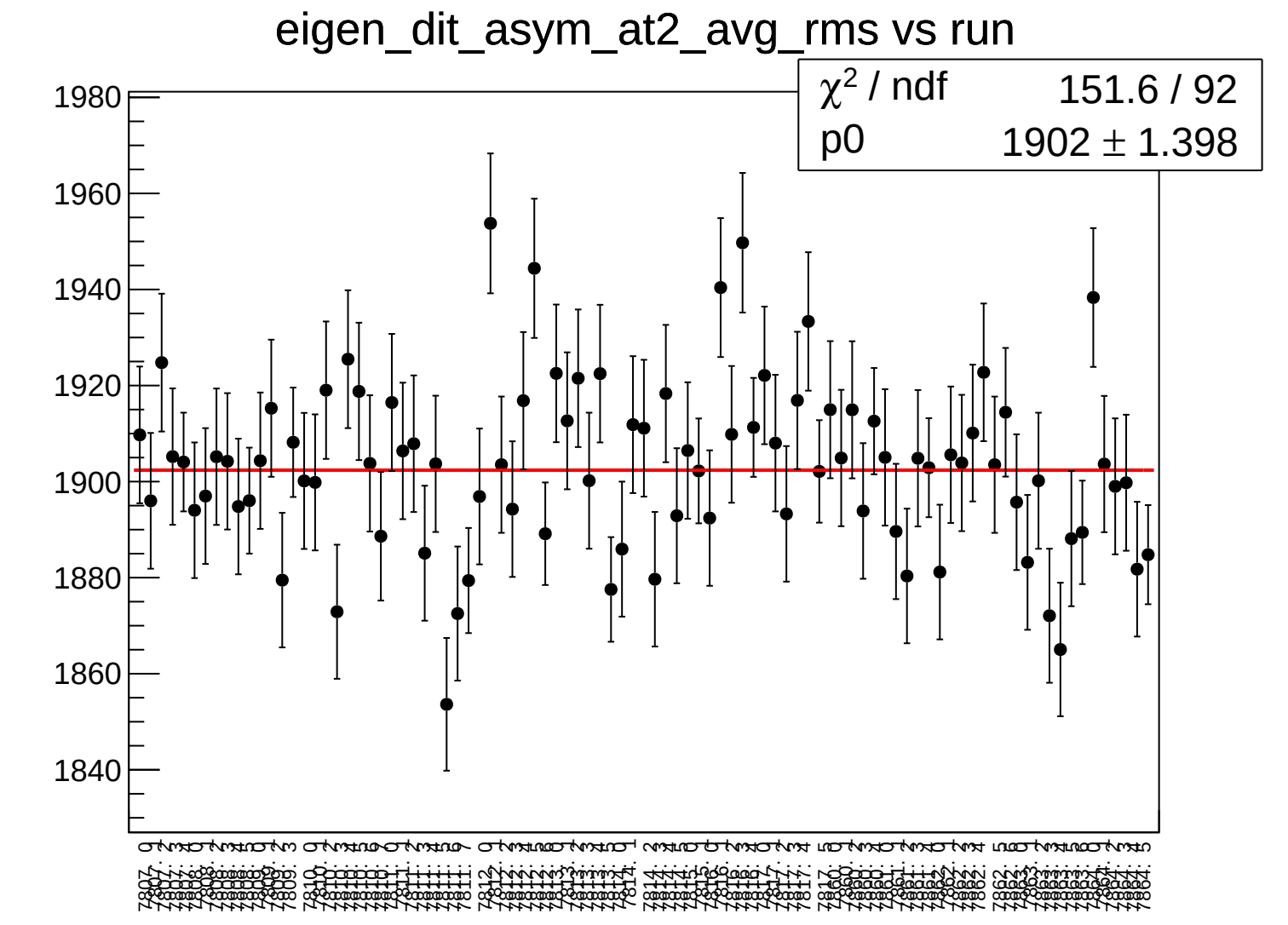

asym_at2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 84.07 / 92
p0 1.278e+04 ± 1.274e+04
pull
Entries 93
Mean −45.12
Std Dev 0

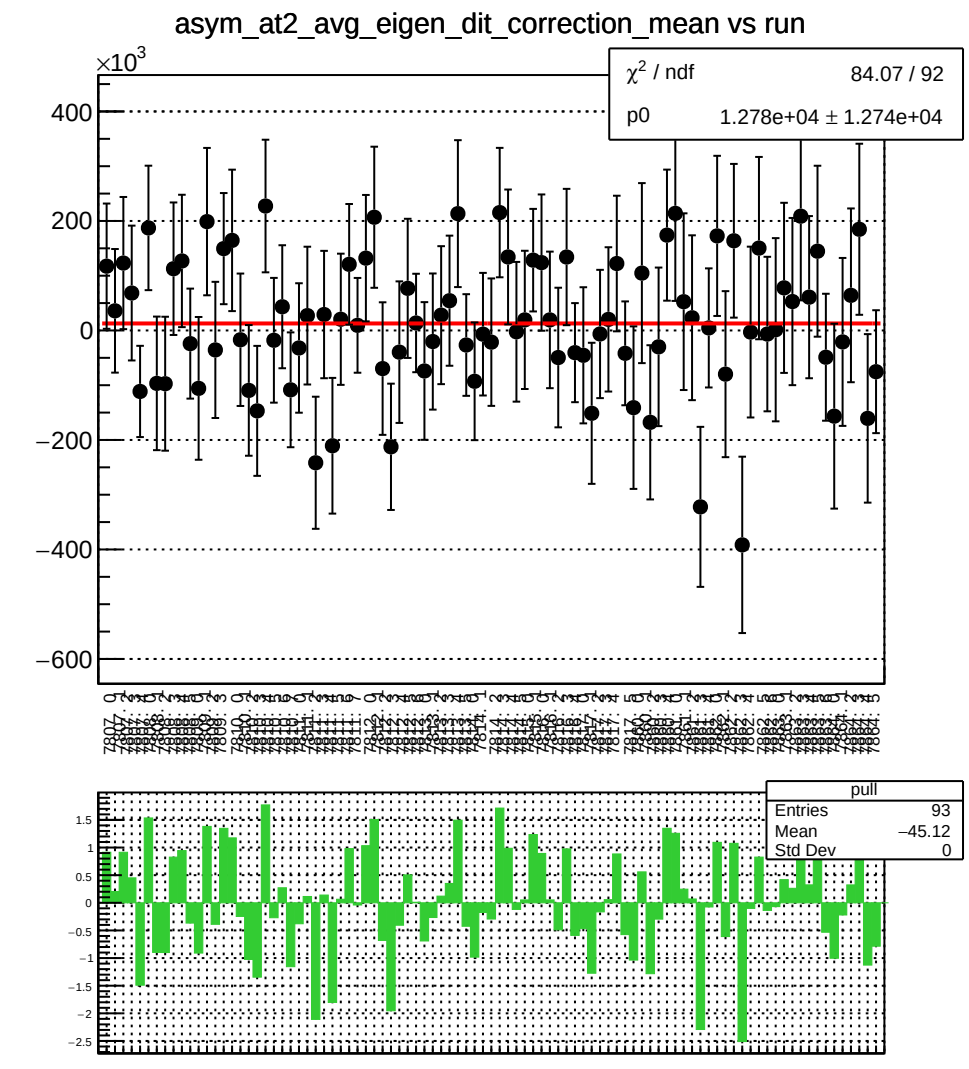

pull1D
Entries 93
Mean 0.01057
Std Dev 0.9507

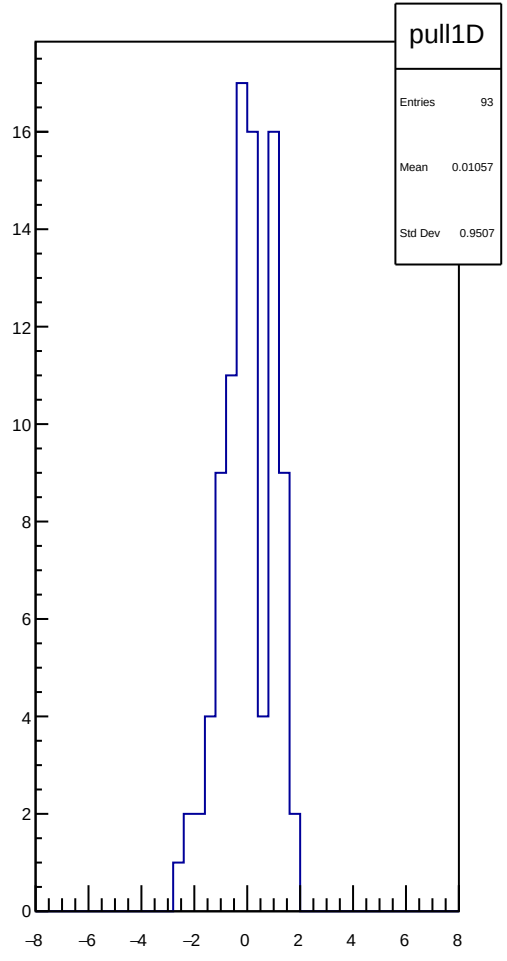

asym_at2_avg_dit_correction_rms vs run
χ² / ndf 2.487e+04 / 92
p0 1.217e+04 ± 9.006
16000
15000
14000
13000
12000
11000
10000

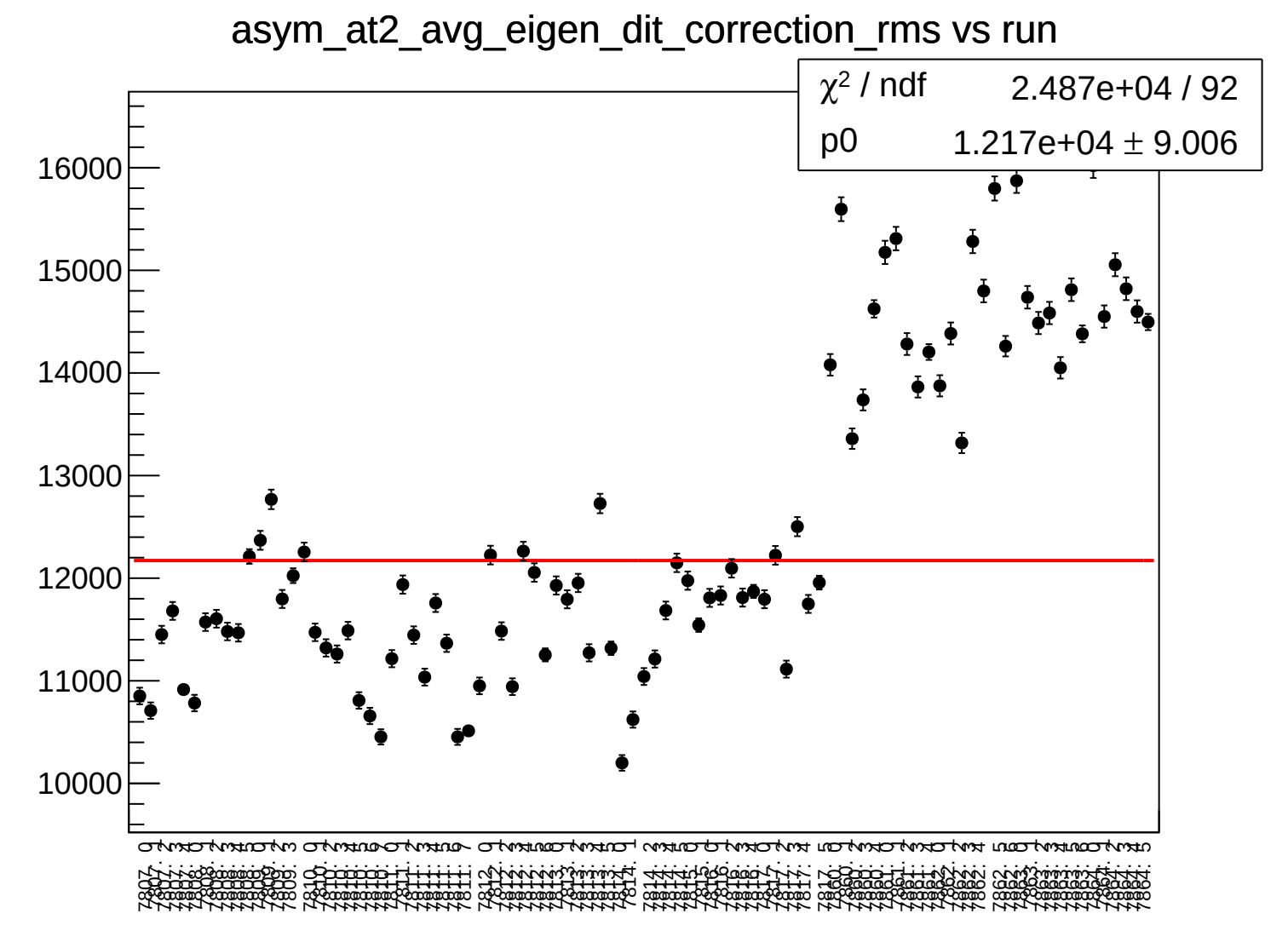

eigen_dit_asym_at2_avg_mean vs run
χ² / ndf 108.7 / 92
p0 92.83 ± 1977
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 81.98
Std Dev 0
2
1
0
−1
−2

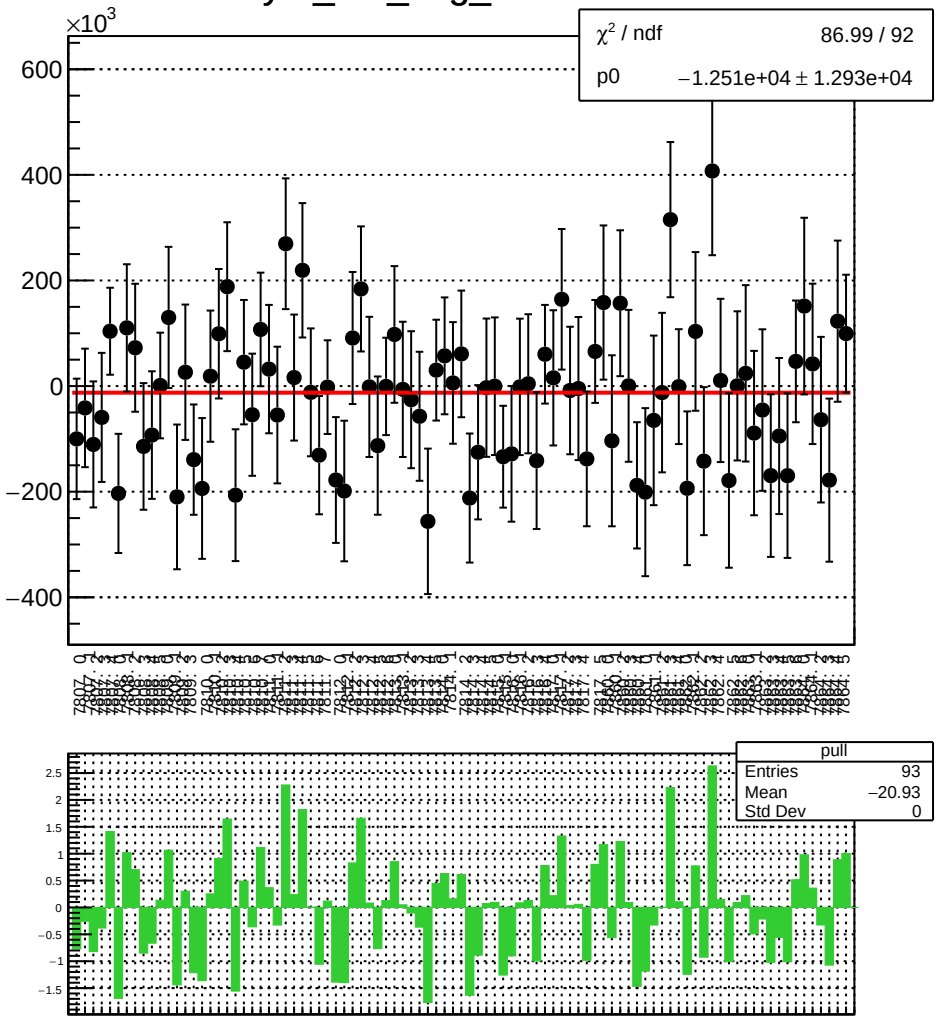

pull1D
Entries 93
Mean −0.01426
Std Dev 1.081
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

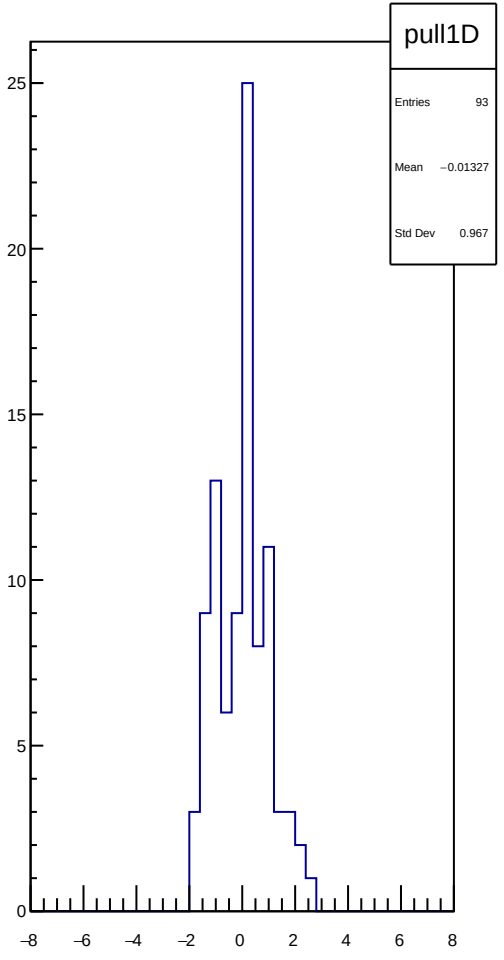

eigen_dit_asym_at2_avg_rms vs run
χ² / ndf 151.6 / 92
p0 1902 ± 1.398
1980
1960
1940
1920
1900
1880
1860
1840

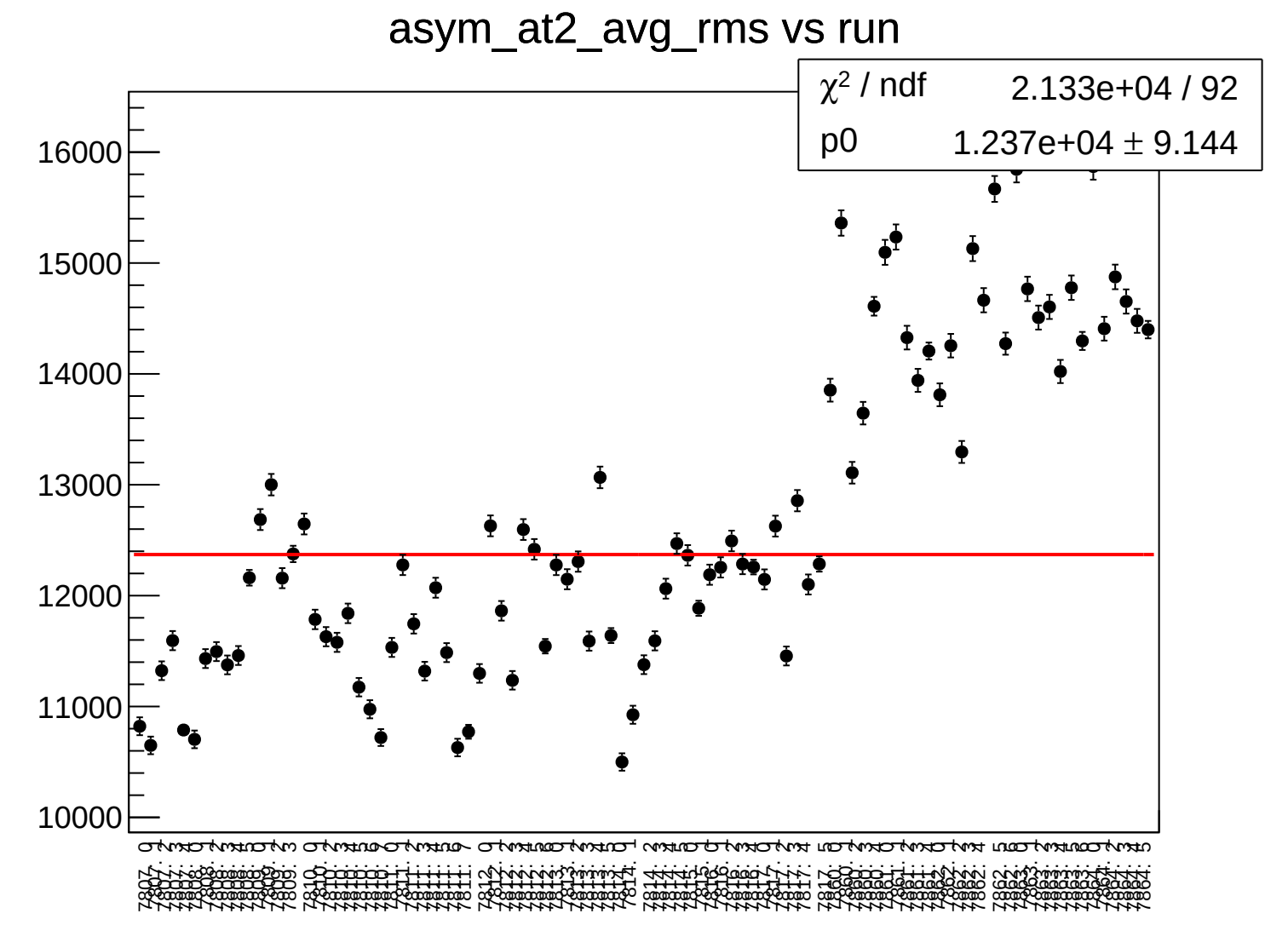

asym_at2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 84.07 / 92
p0 1.278e+04 ± 1.274e+04
pull
Entries 93
Mean −45.12
Std Dev 0

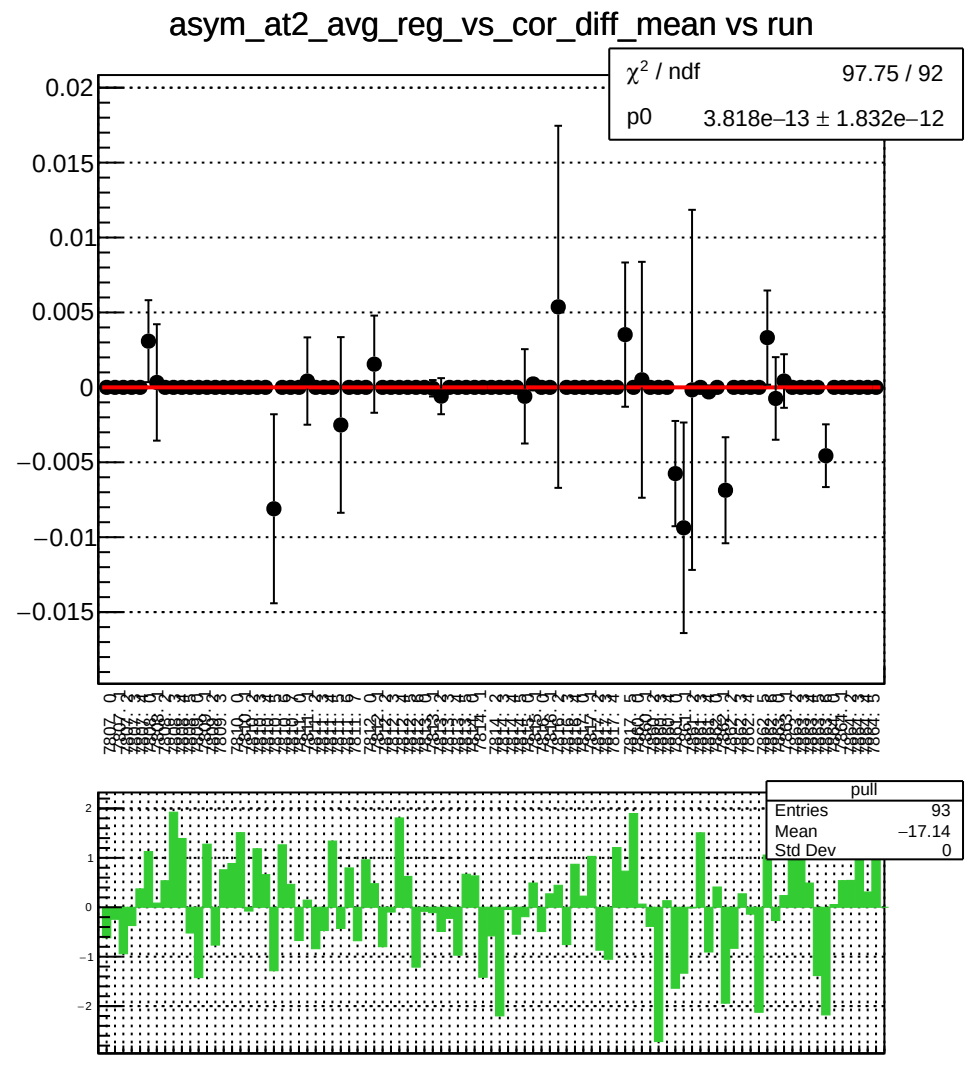

pull1D
Entries 93
Mean 0.01057
Std Dev 0.9507

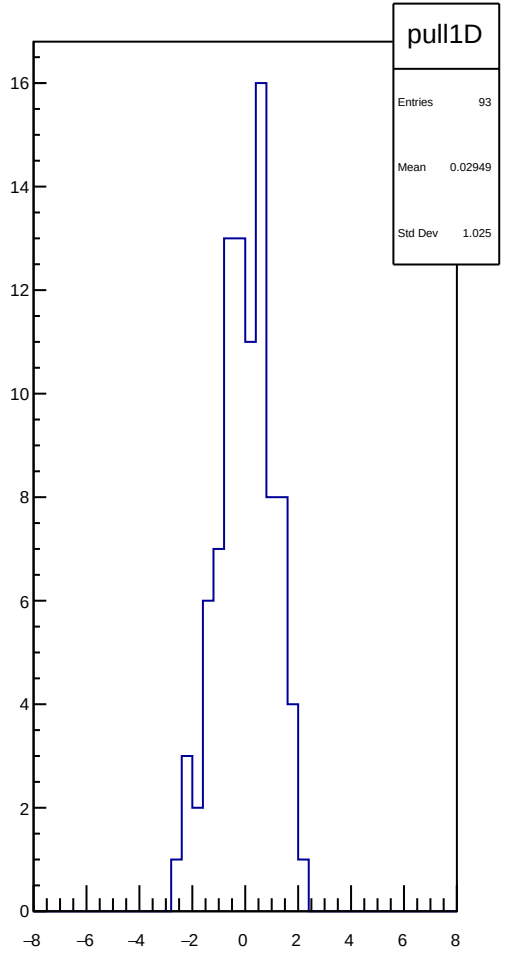

asym_at2_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.487e+04 / 92
p0 1.217e+04 ± 9.006
16000
15000
14000
13000
12000
11000
10000

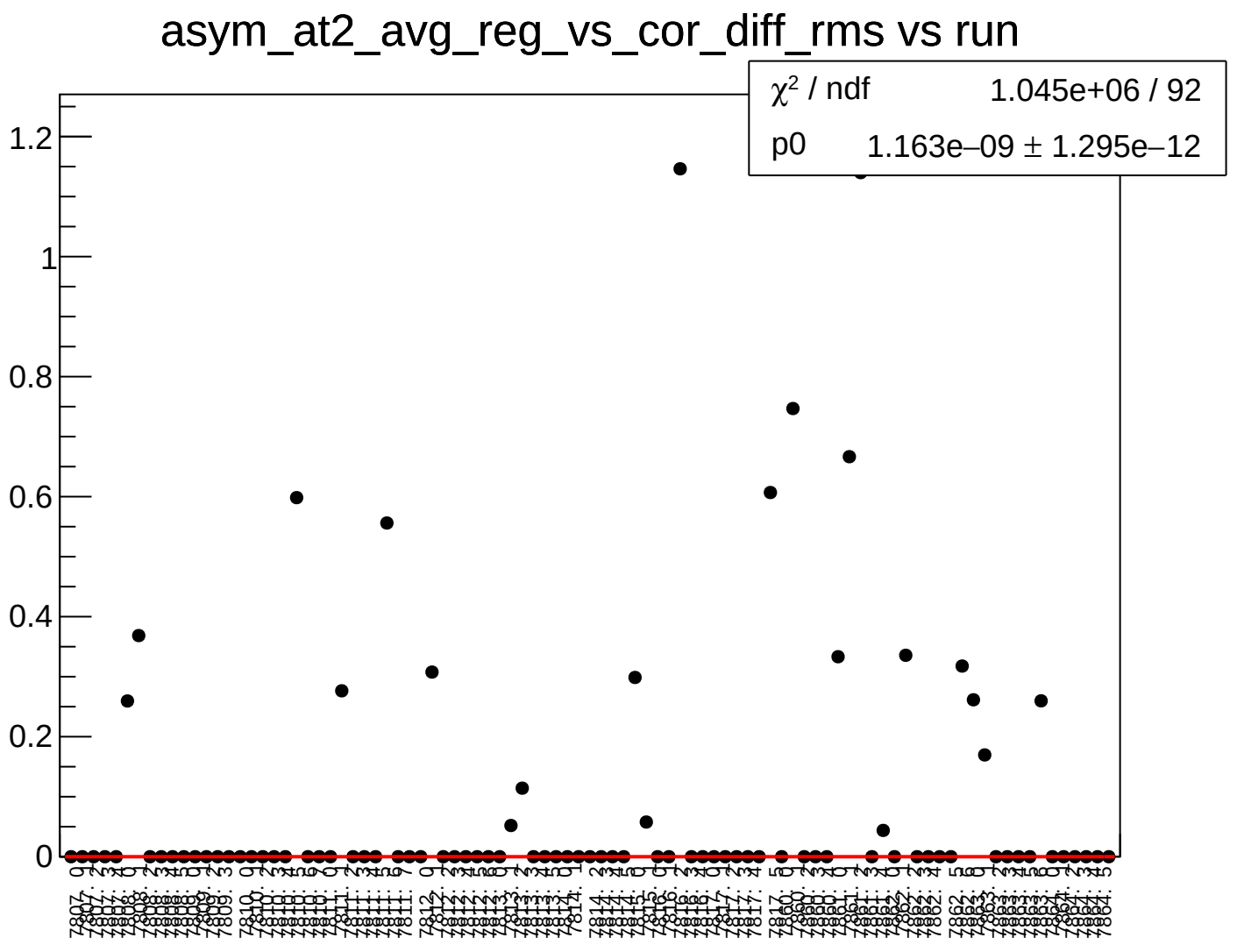

asym_at2_avg_mean vs run
×10^3
χ² / ndf 86.99 / 92
p0 −1.251e+04 ± 1.293e+04
pull
Entries 93
Mean −20.93
Std Dev 0

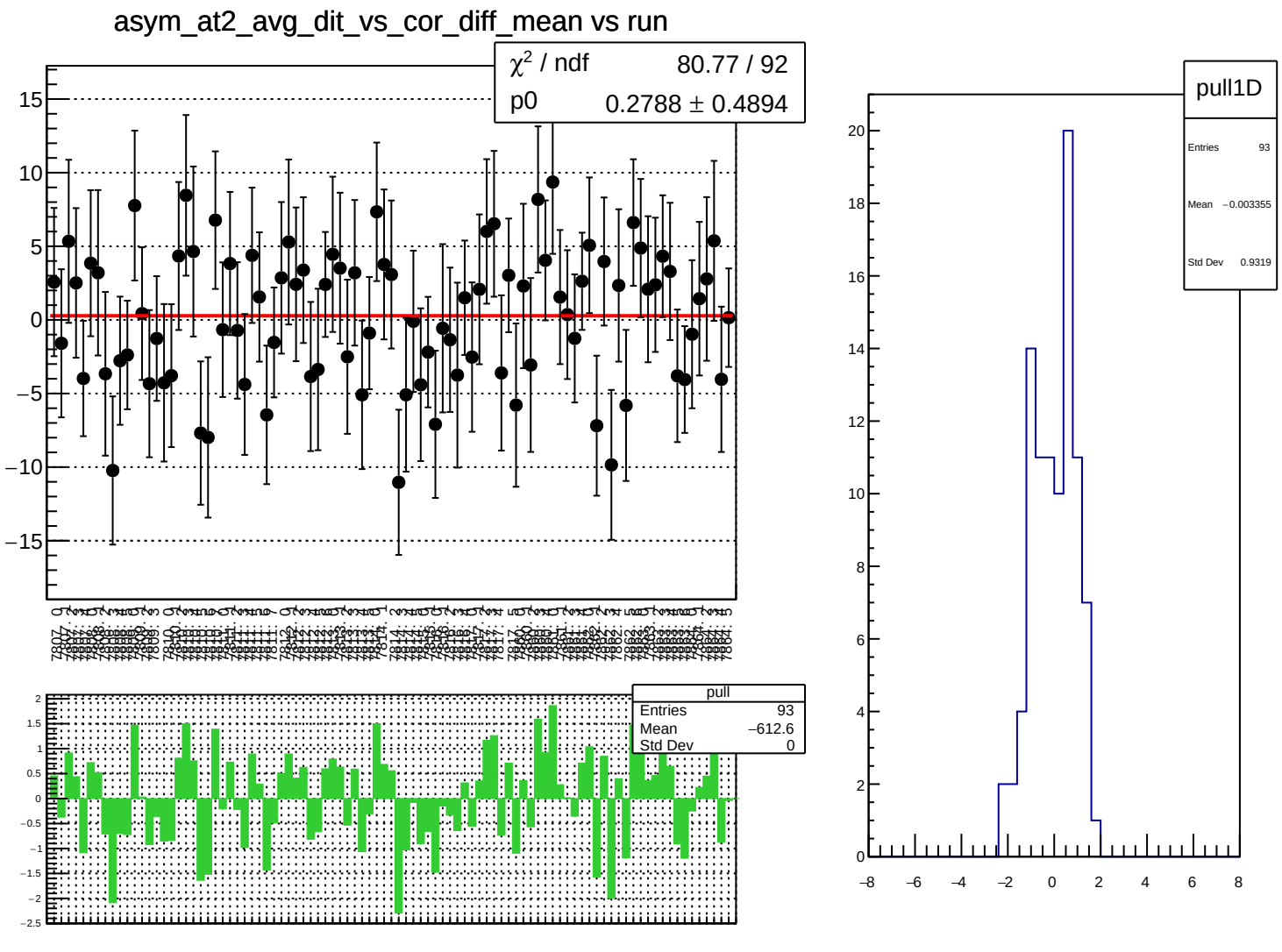

pull1D
Entries 93
Mean −0.01327
Std Dev 0.967

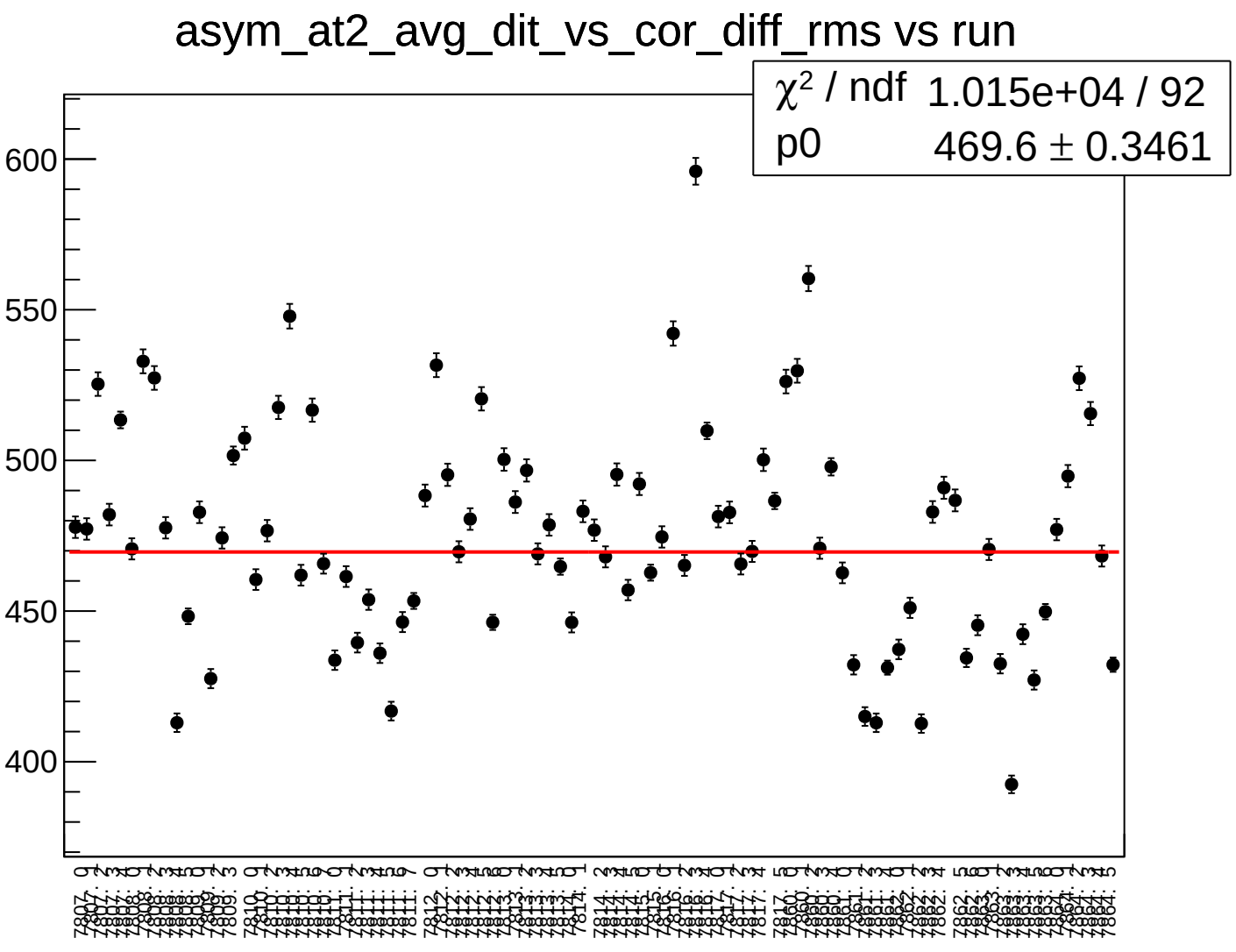

asym_at2_avg_rms vs run
χ² / ndf 2.133e+04 / 92
p0 1.237e+04 ± 9.144
16000
15000
14000
13000
12000
11000
10000

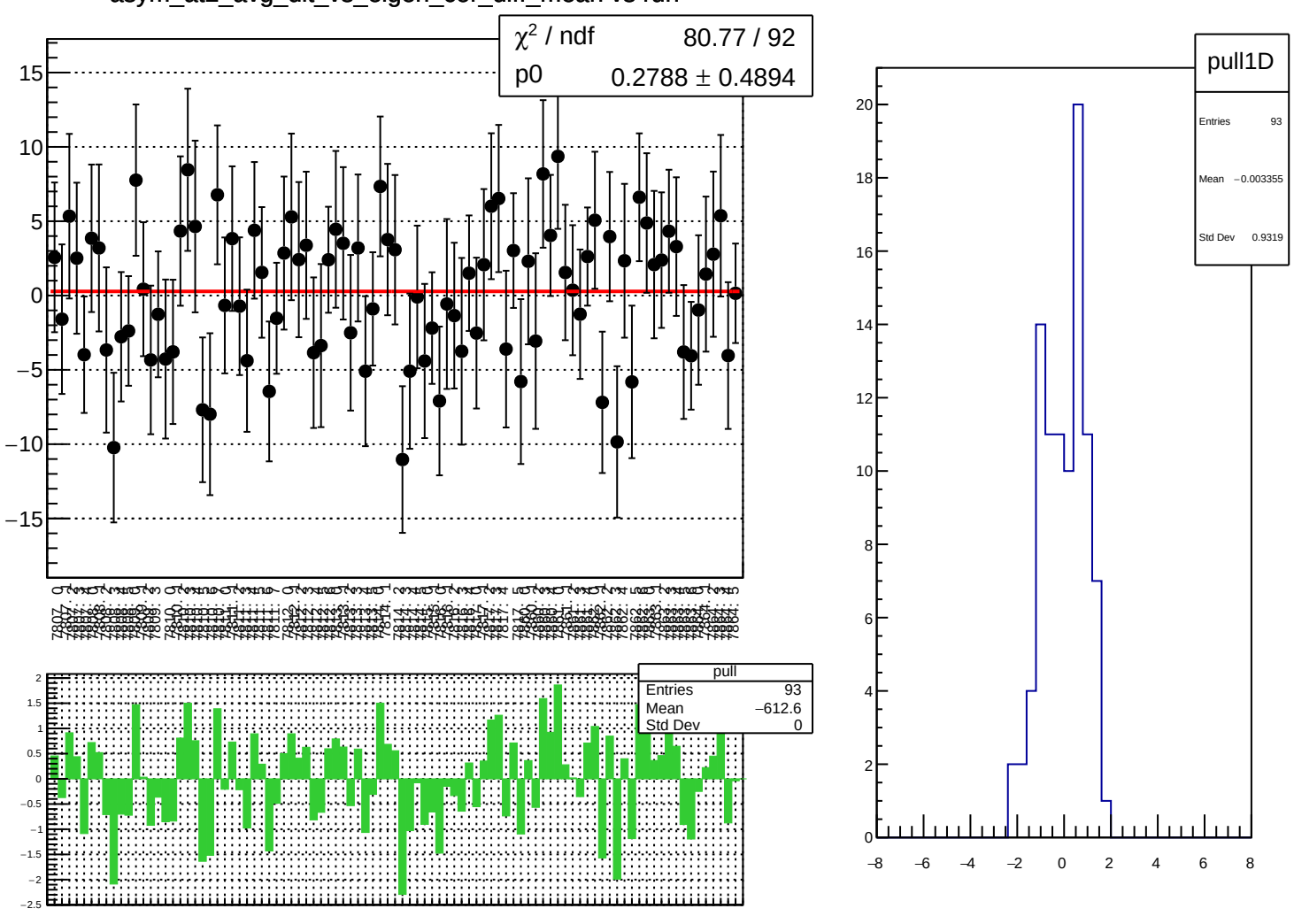

asym_at2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 97.75 / 92
p0 3.818e−13 ± 1.832e−12
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 93
Mean −17.14
Std Dev 0
2
1
0
−1
−2

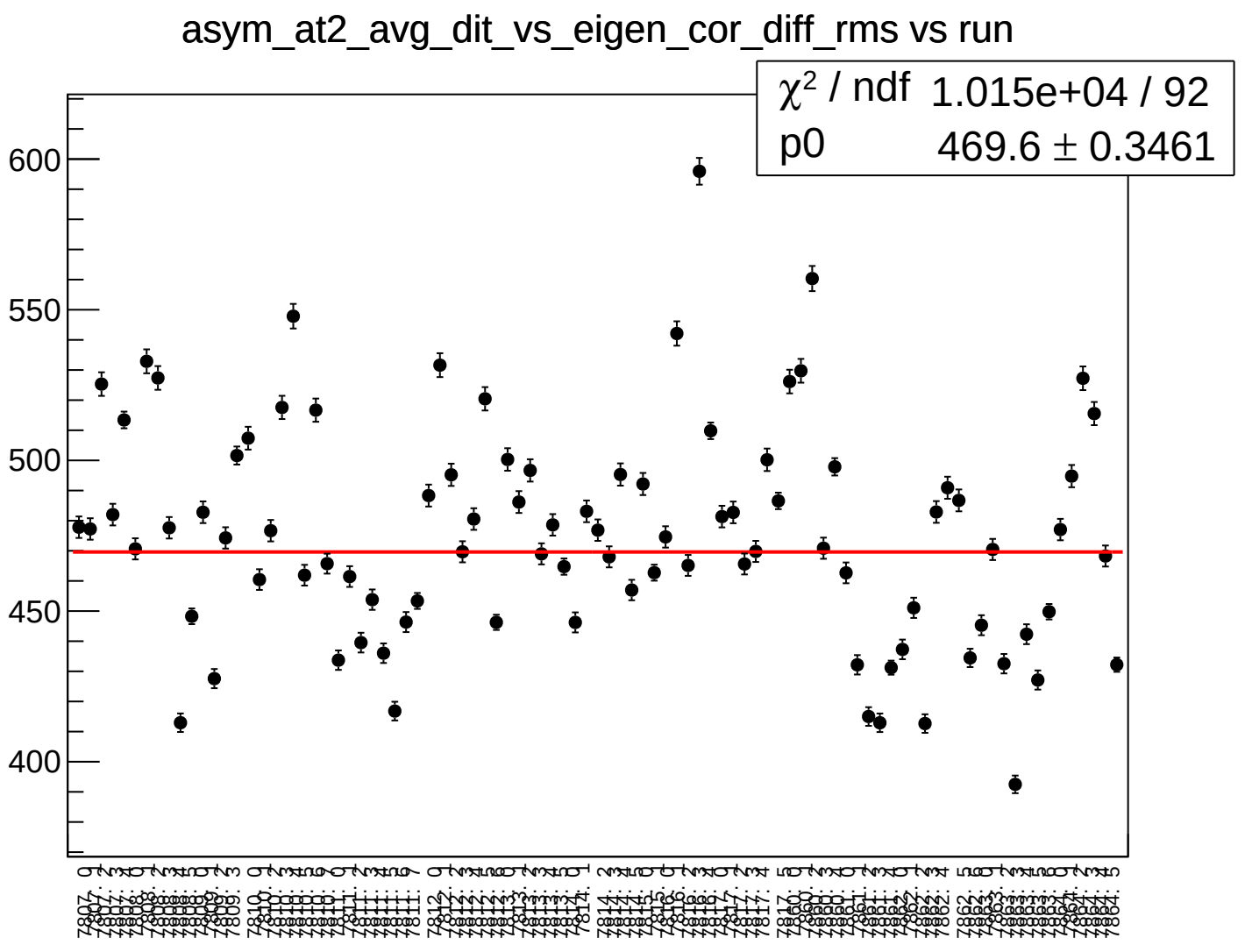

pull1D
Entries 93
Mean 0.02949
Std Dev 1.025
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

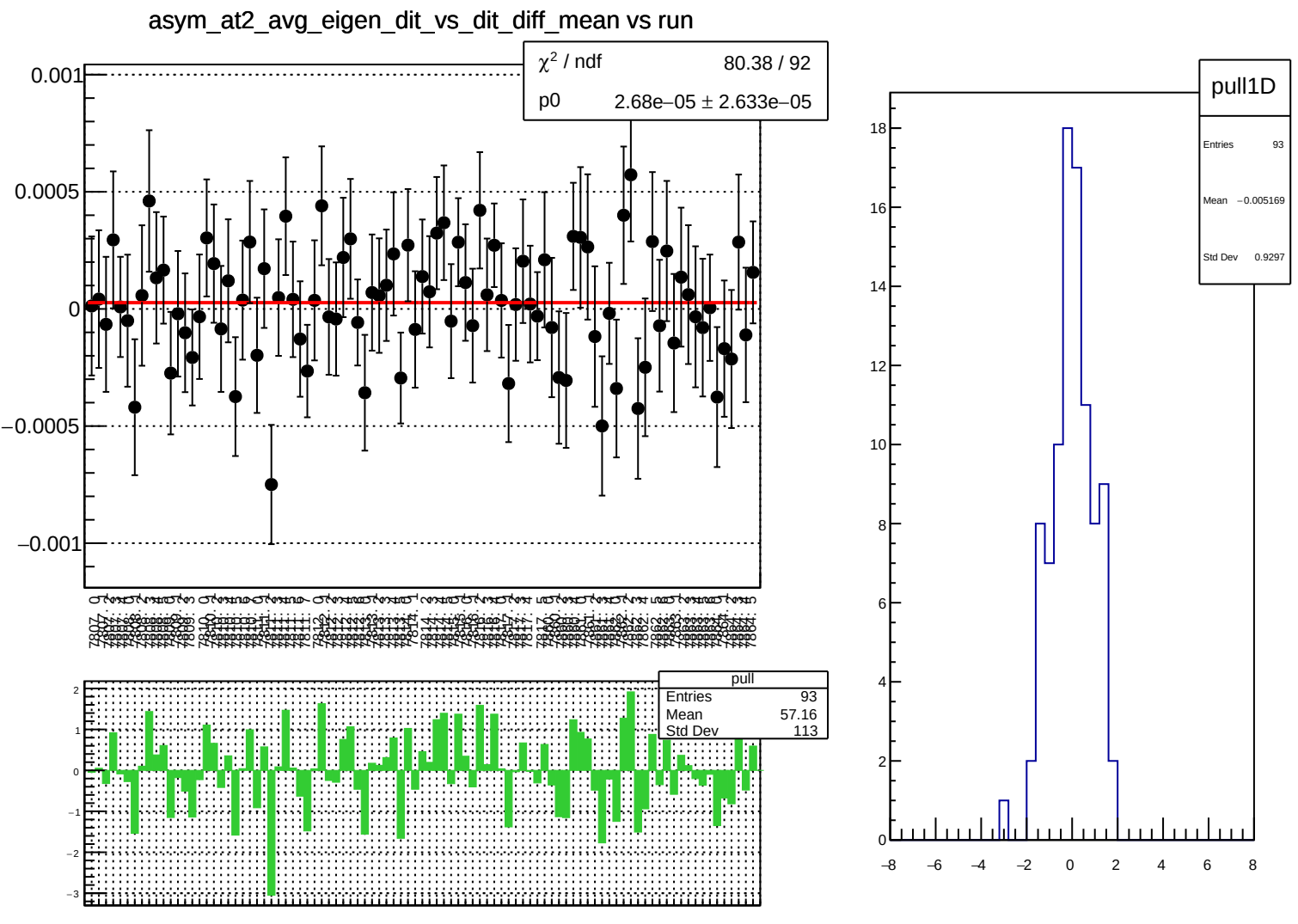

asym_at2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.045e+06 / 92
p0 1.163e−09 ± 1.295e−12
1.2
1
0.8
0.6
0.4
0.2
0

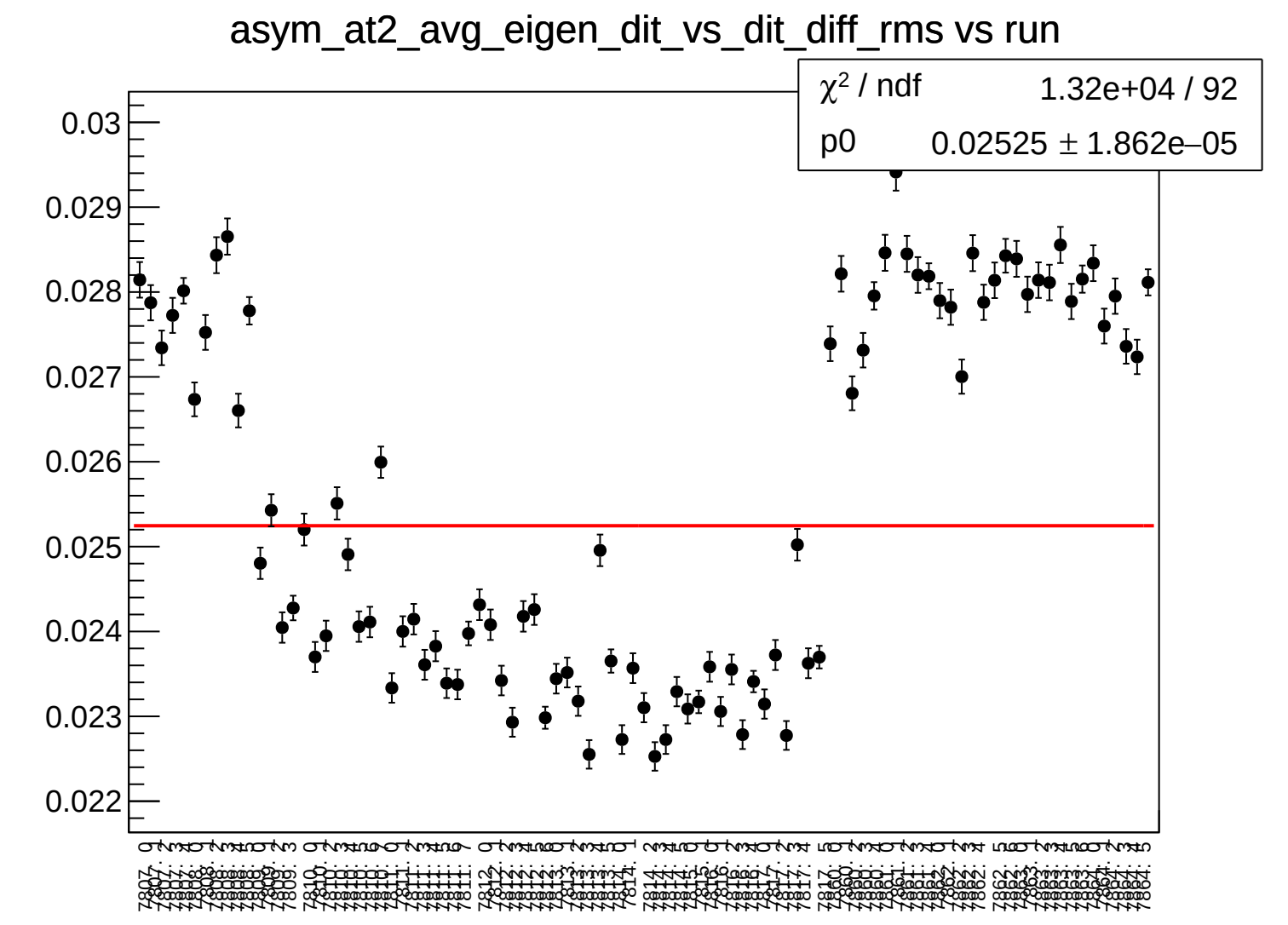

asym_at2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 80.77 / 92
p0 0.2788 ± 0.4894
pull
Entries 93
Mean −612.6
Std Dev 0
pull1D
Entries 93
Mean −0.003355
Std Dev 0.9319

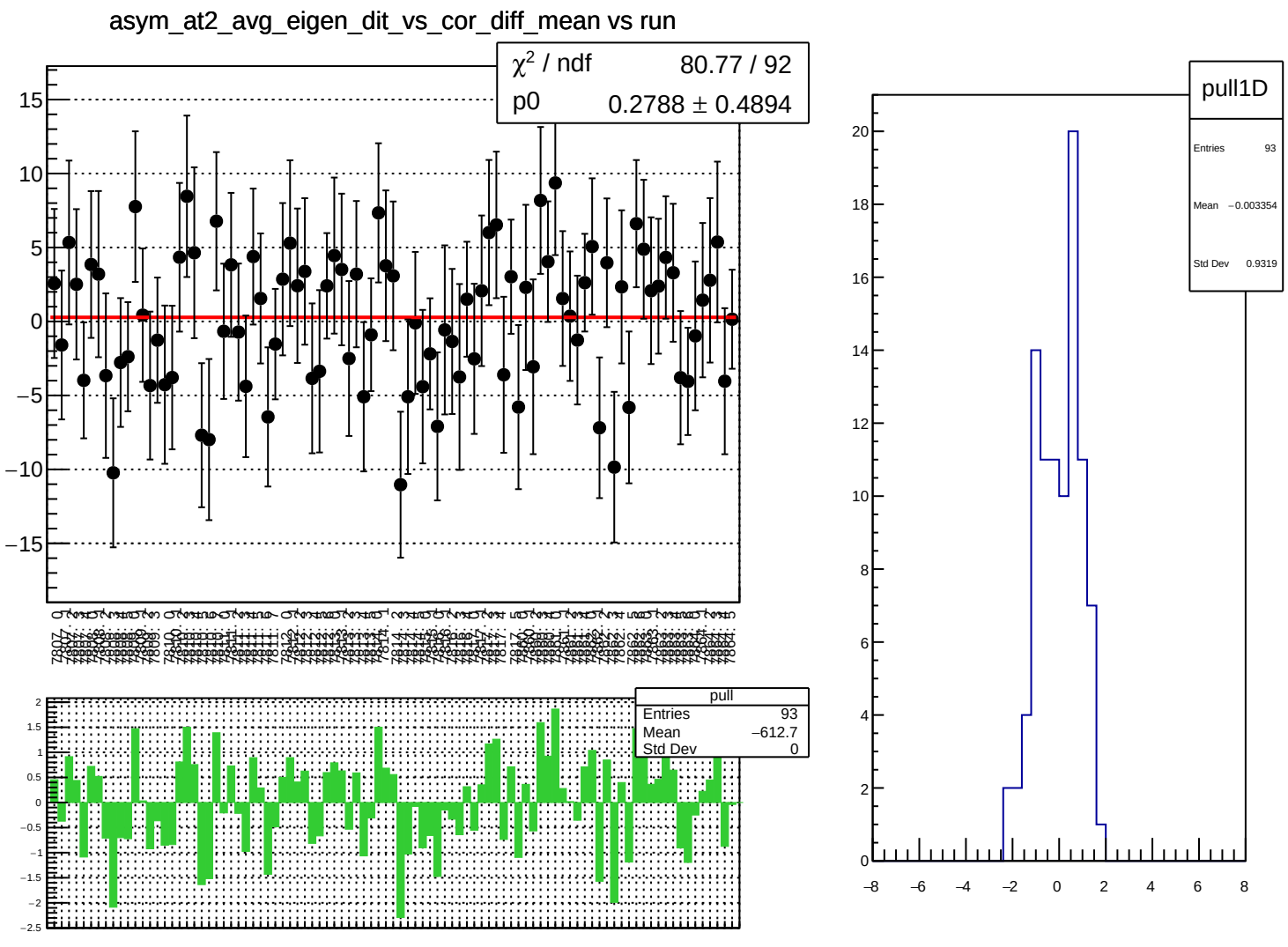

asym_at2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.015e+04 / 92
p0 469.6 ± 0.3461
600
550
500
450
400

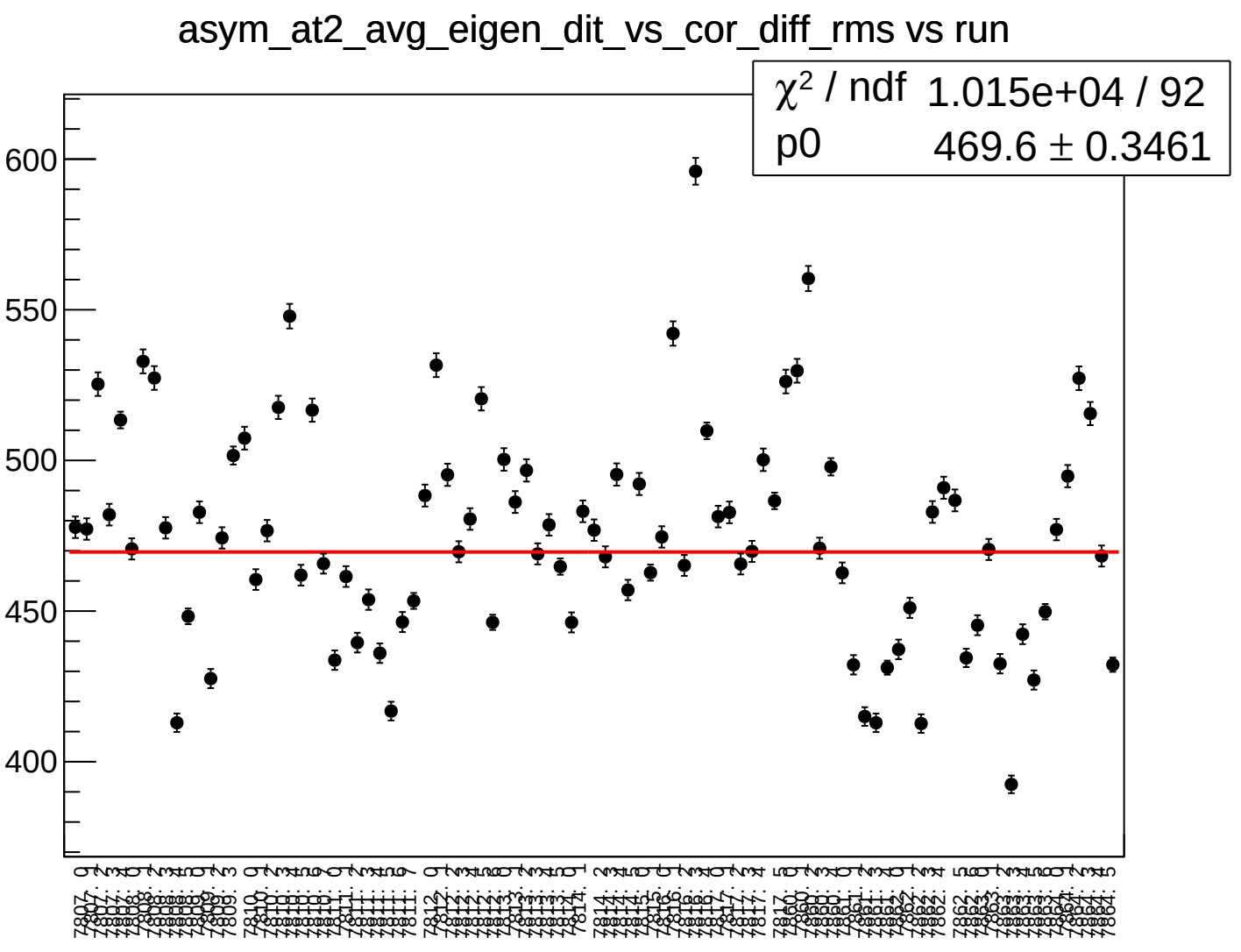

asym_at2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.77 / 92
p0 0.2788 ± 0.4894
pull
Entries 93
Mean −612.6
Std Dev 0
pull1D
Entries 93
Mean −0.003355
Std Dev 0.9319

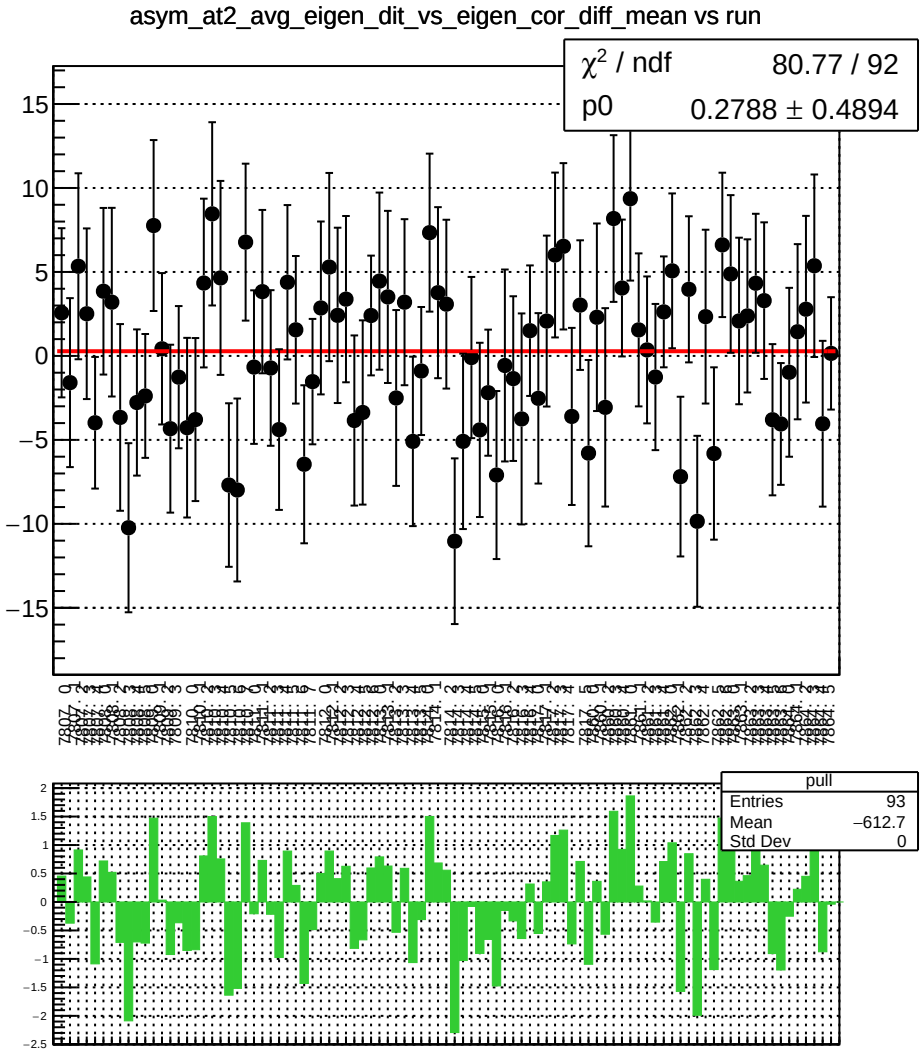

asym_at2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.015e+04 / 92
p0 469.6 ± 0.3461
600
550
500
450
400

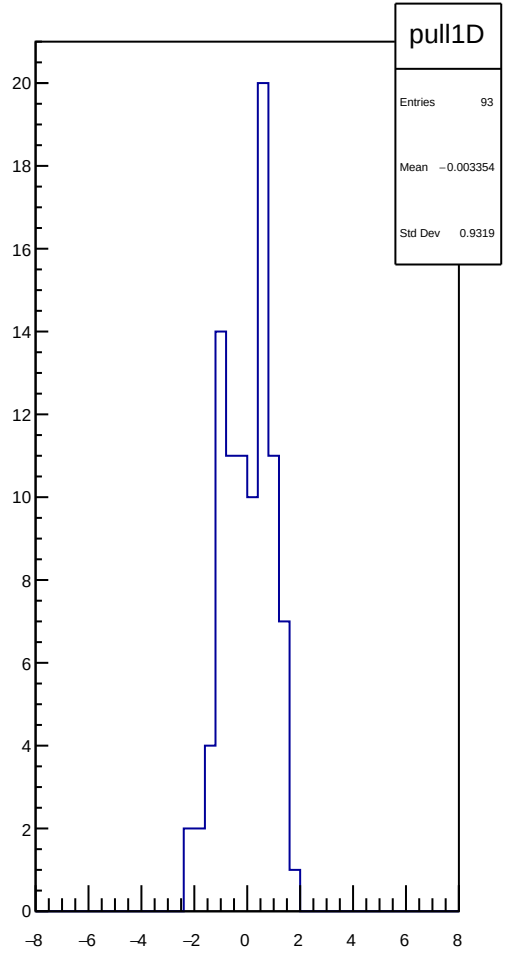

asym_at2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 80.38 / 92
p0 2.68e−05 ± 2.633e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 93
Mean 57.16
Std Dev 113
pull1D
Entries 93
Mean −0.005169
Std Dev 0.9297

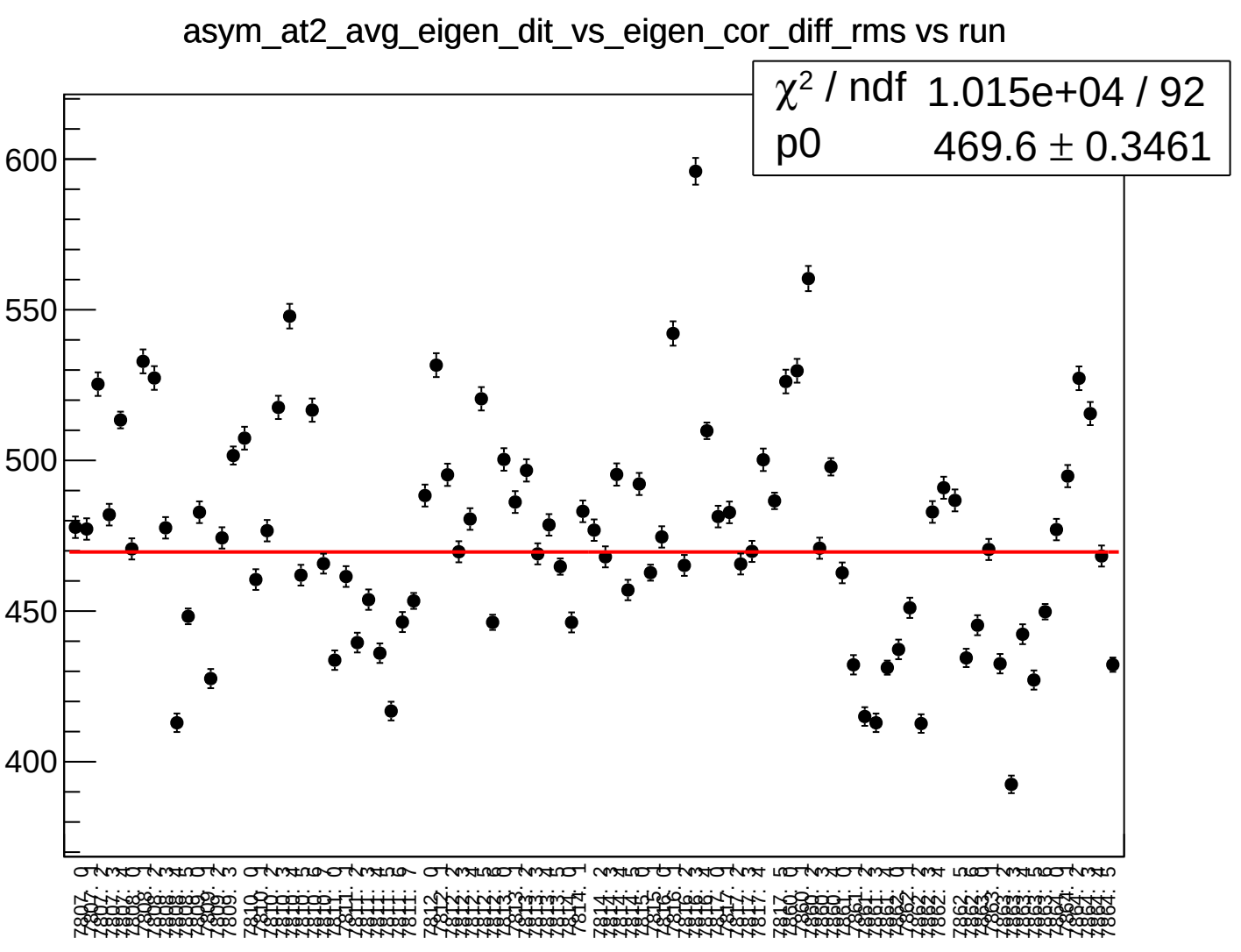

asym_at2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.32e+04 / 92
p0 0.02525 ± 1.862e−05
0.03
0.029
0.028
0.027
0.026
0.025
0.024
0.023
0.022

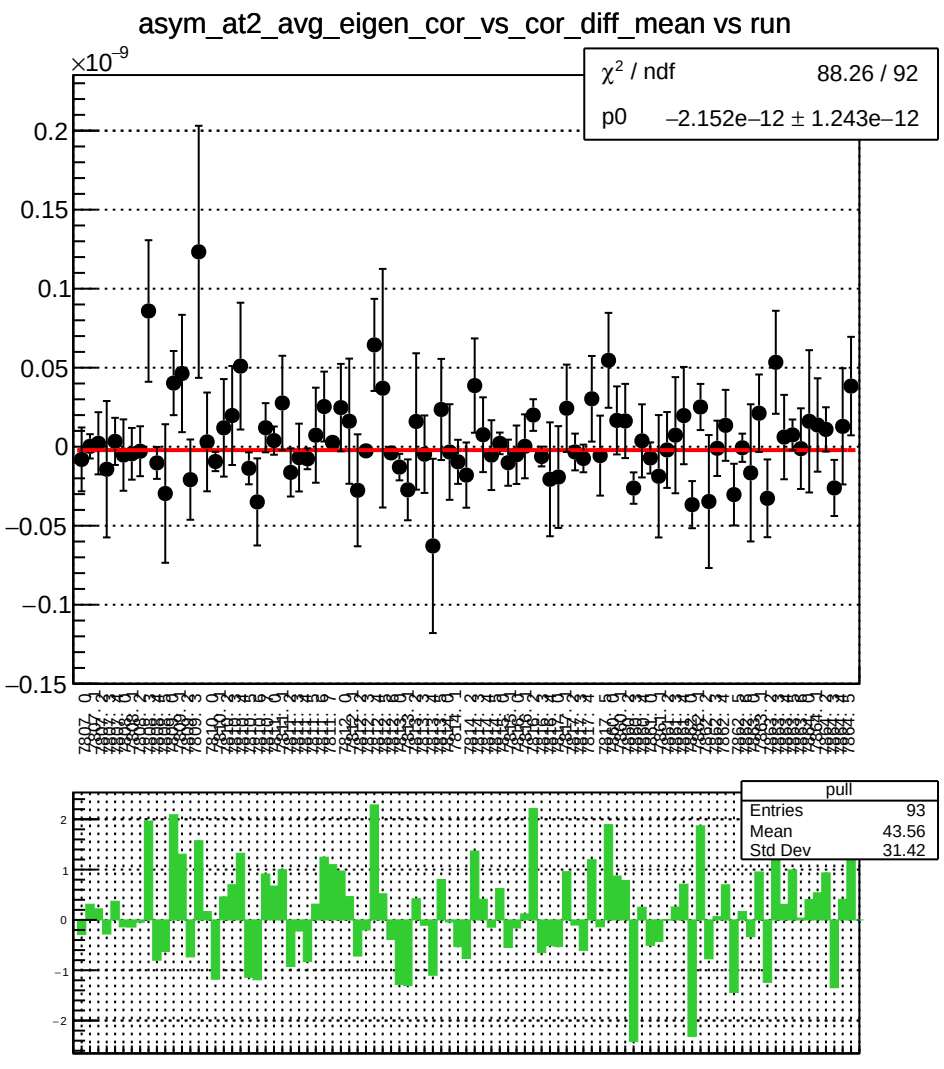

asym_at2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.77 / 92
p0 0.2788 ± 0.4894
pull
Entries 93
Mean −612.7
Std Dev 0
pull1D
Entries 93
Mean −0.003354
Std Dev 0.9319

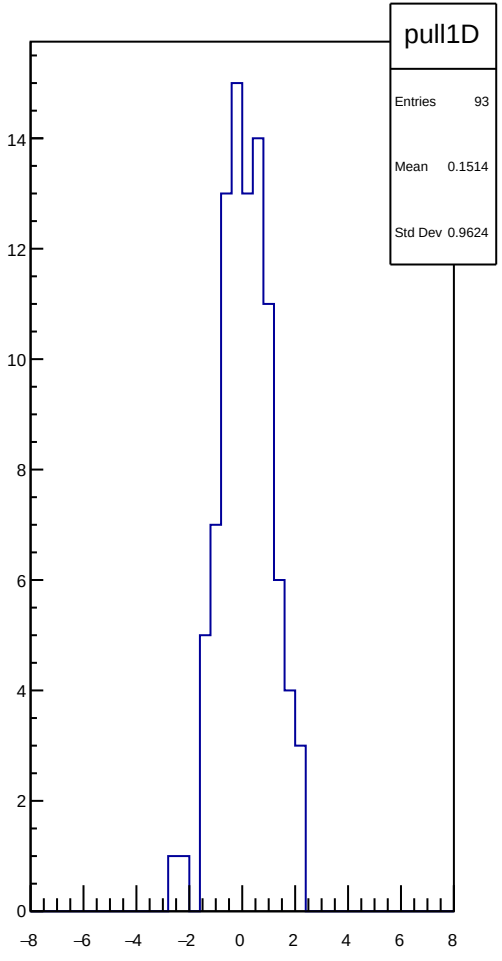

asym_at2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.015e+04 / 92
p0 469.6 ± 0.3461
600
550
500
450
400

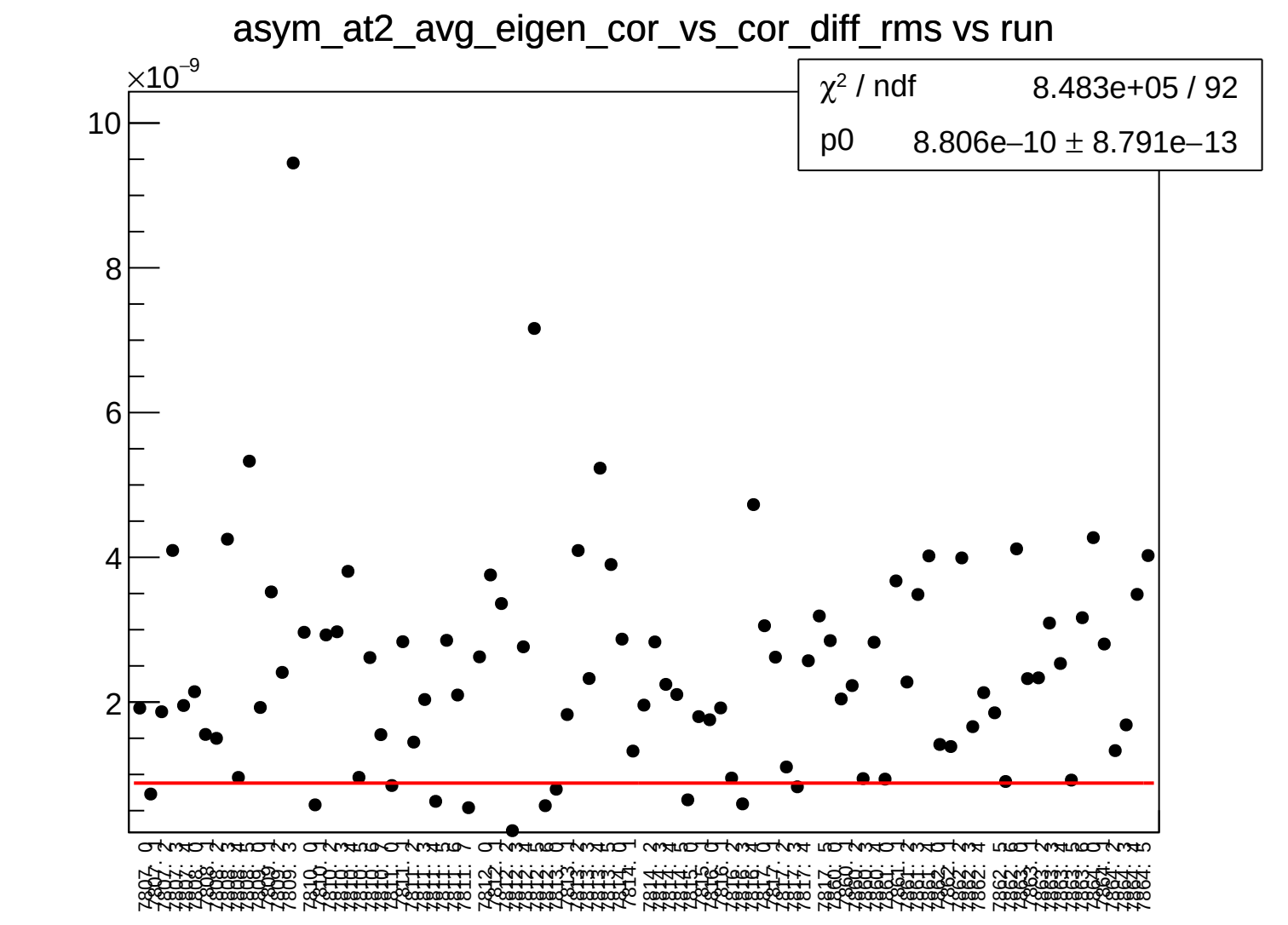

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.77 / 92
p0 0.2788 ± 0.4894
pull
Entries 93
Mean −612.7
Std Dev 0

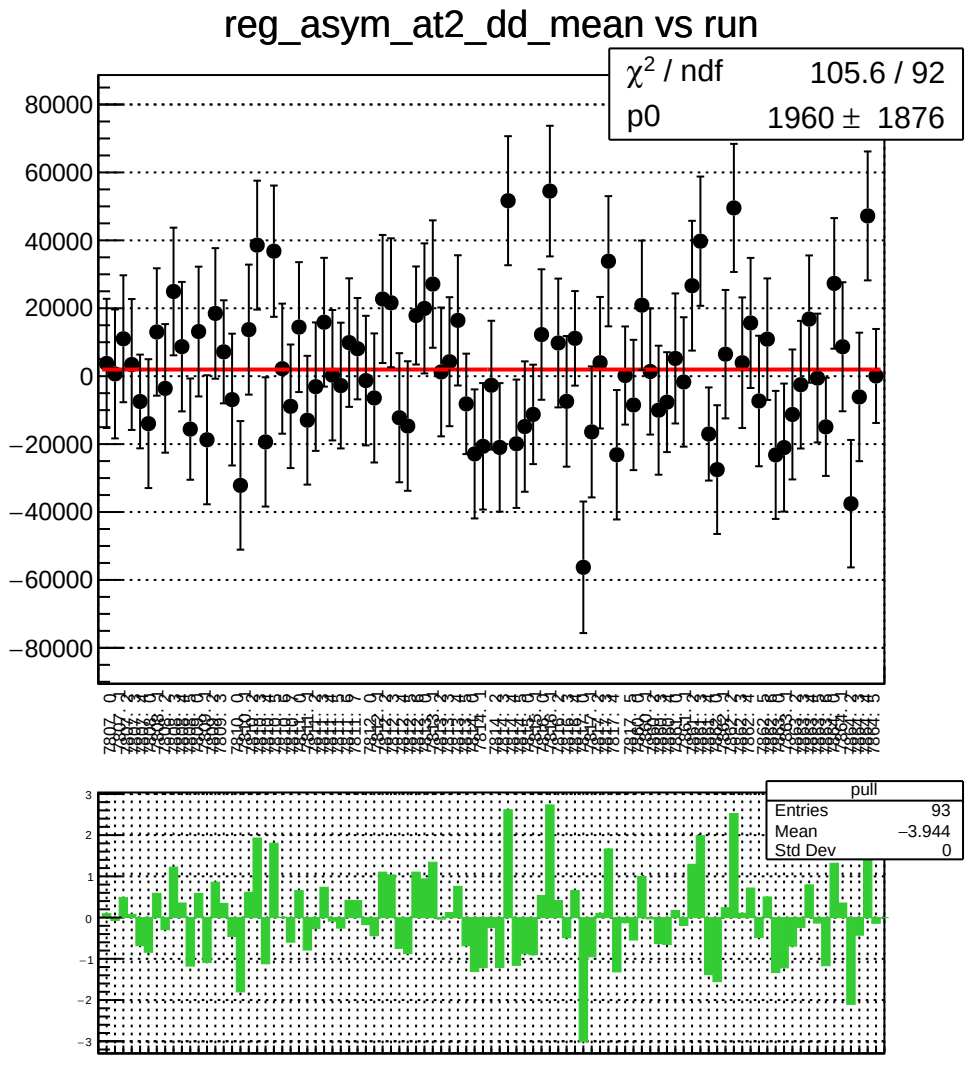

pull1D
Entries 93
Mean −0.003354
Std Dev 0.9319

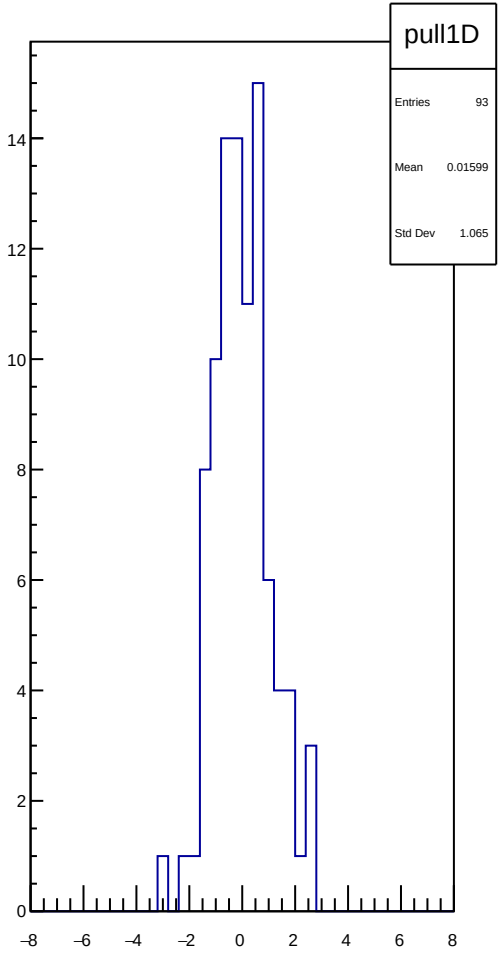

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.015e+04 / 92
p0 469.6 ± 0.3461
600
550
500
450
400

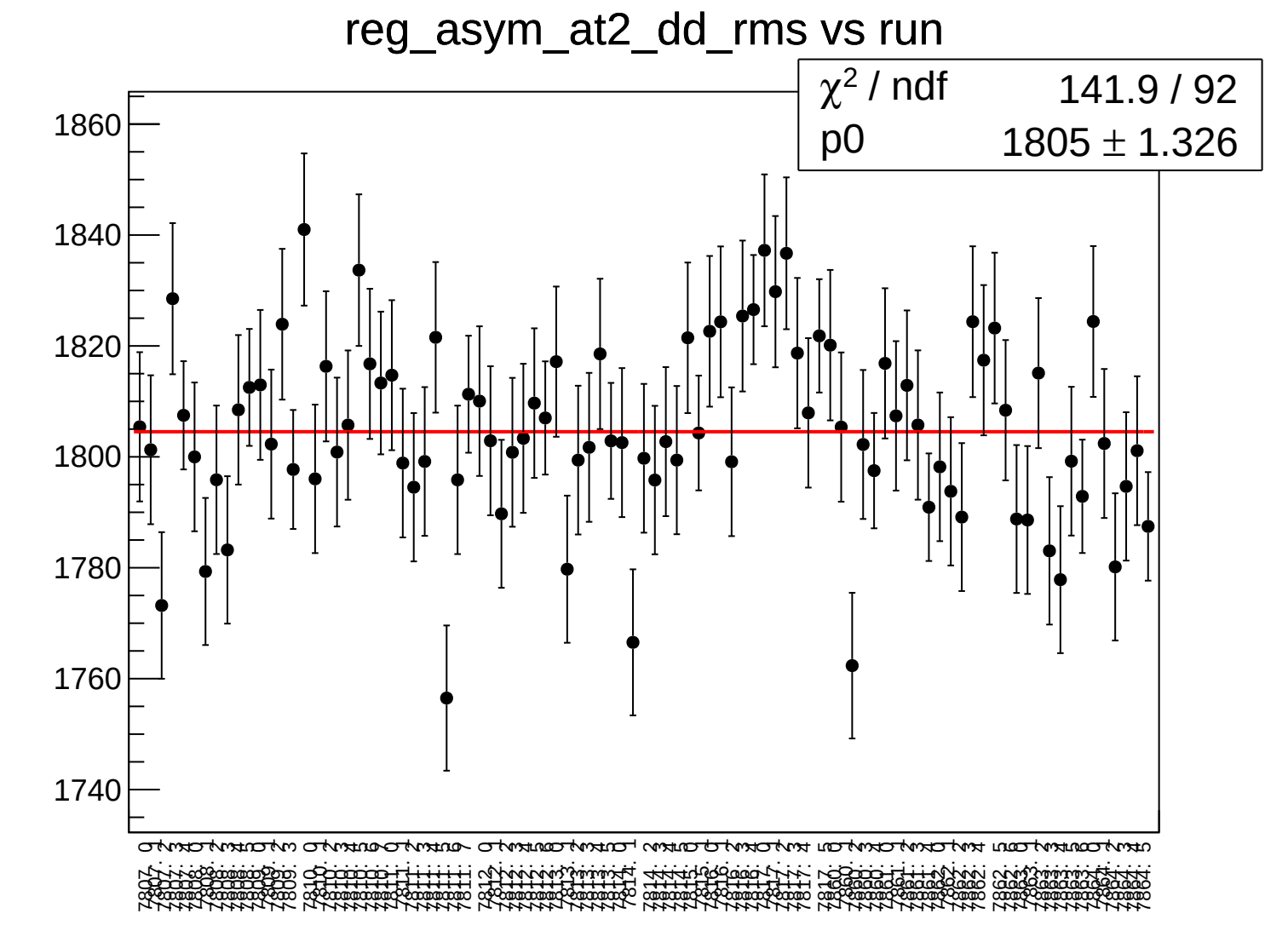

asym_at2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 88.26 / 92
p0 −2.152e−12 ± 1.243e−12
pull
Entries 93
Mean 43.56
Std Dev 31.42

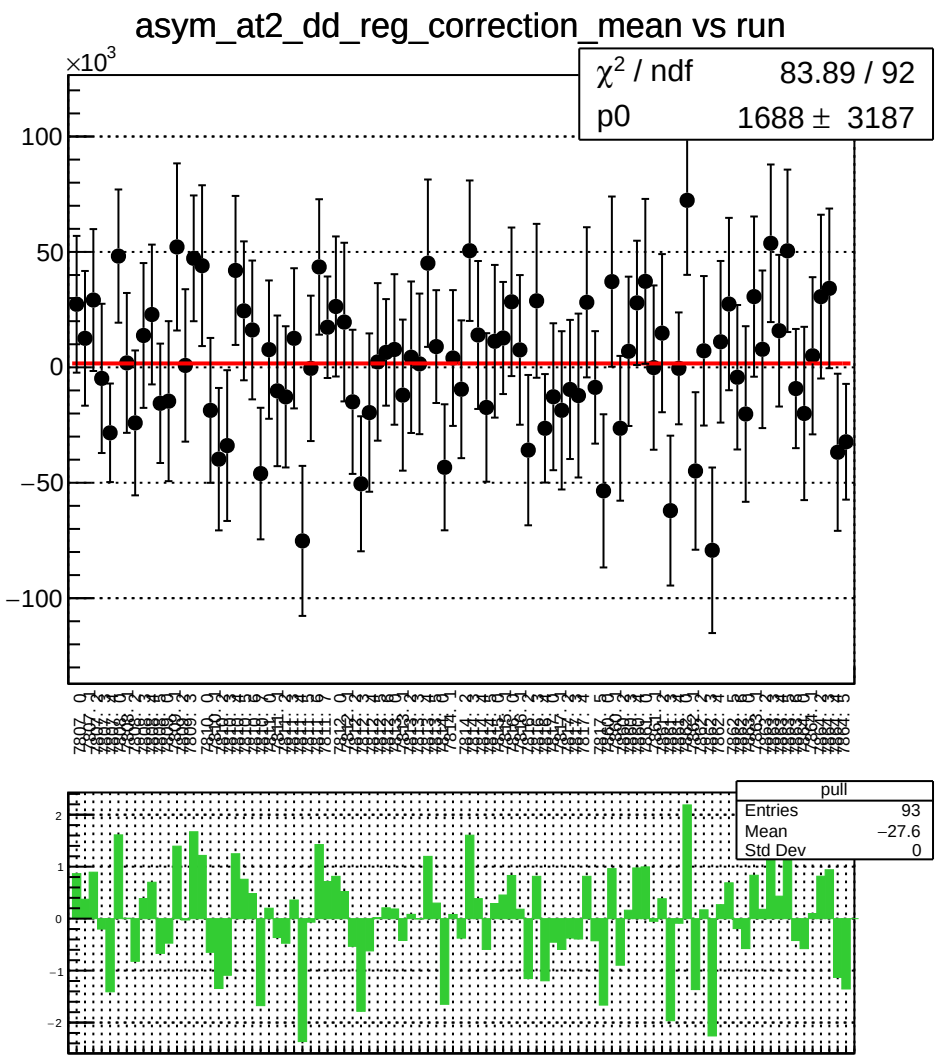

pull1D
Entries 93
Mean 0.1514
Std Dev 0.9624

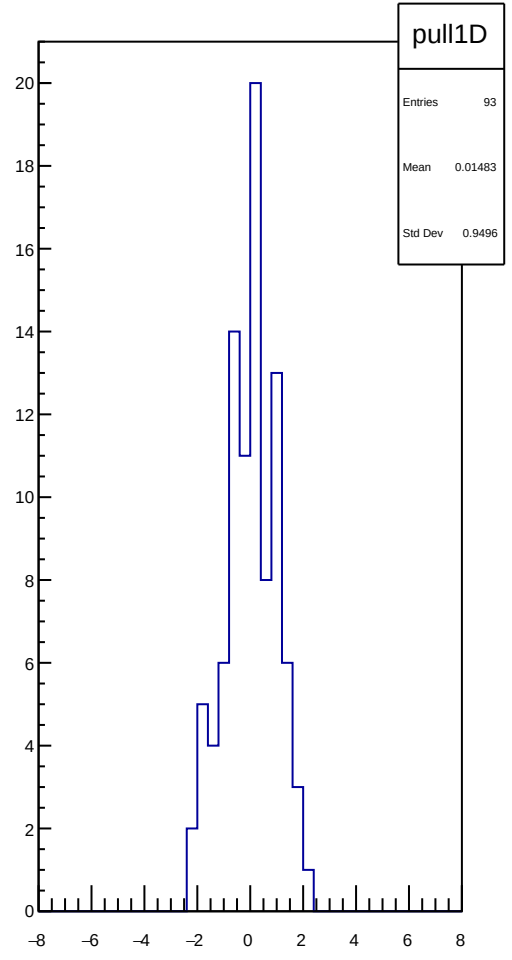

asym_at2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.483e+05 / 92
p0 8.806e−10 ± 8.791e−13
10
8
6
4
2

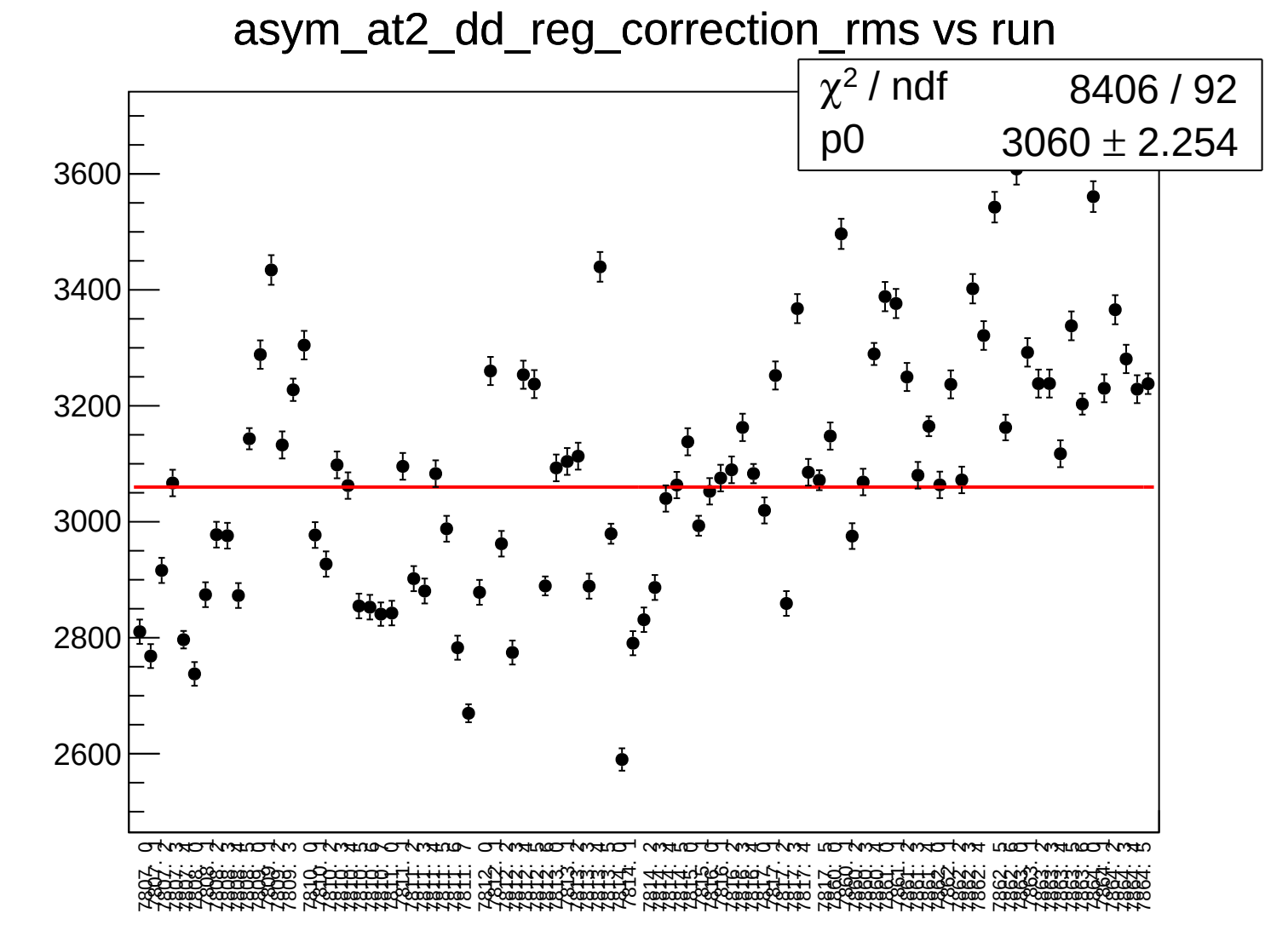

reg_asym_at2_dd_mean vs run
χ² / ndf 105.6 / 92
p0 1960 ± 1876
pull
Entries 93
Mean −3.944
Std Dev 0

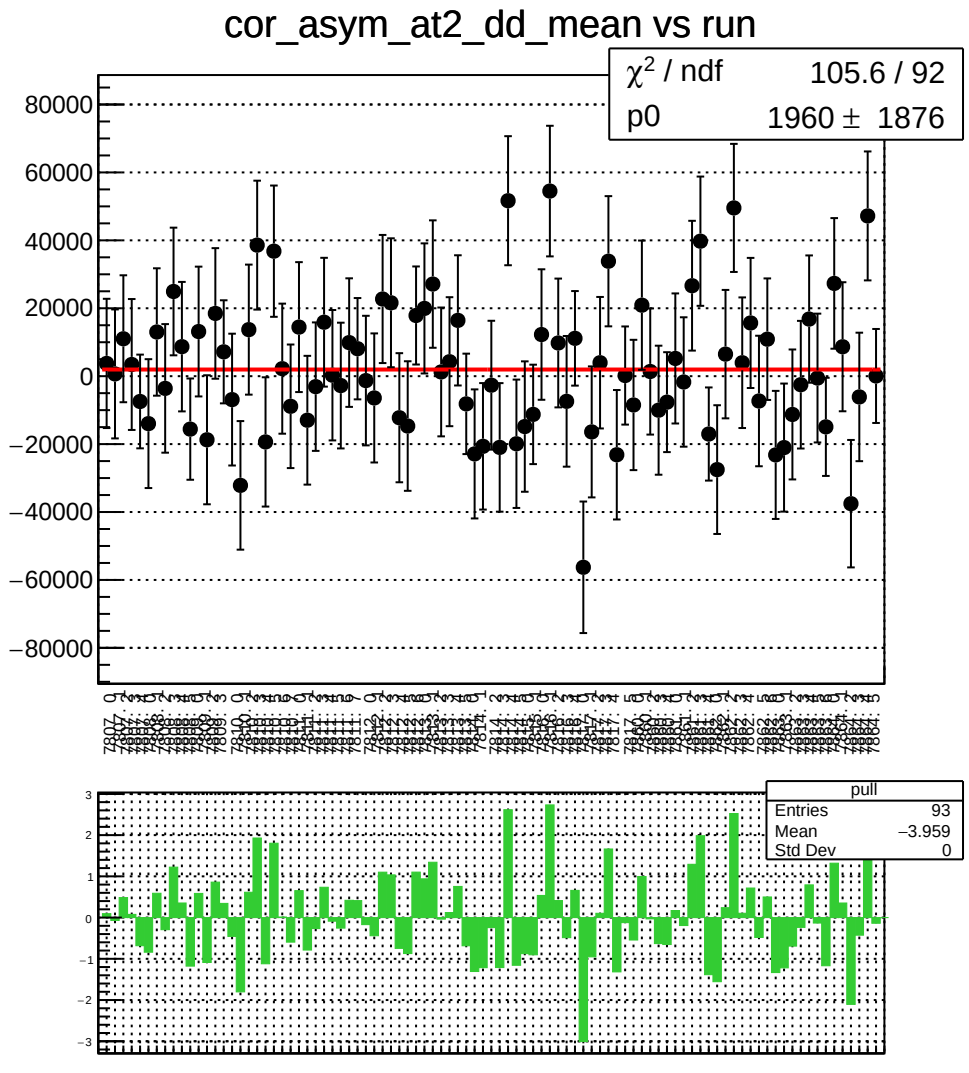

pull1D
Entries 93
Mean 0.01599
Std Dev 1.065

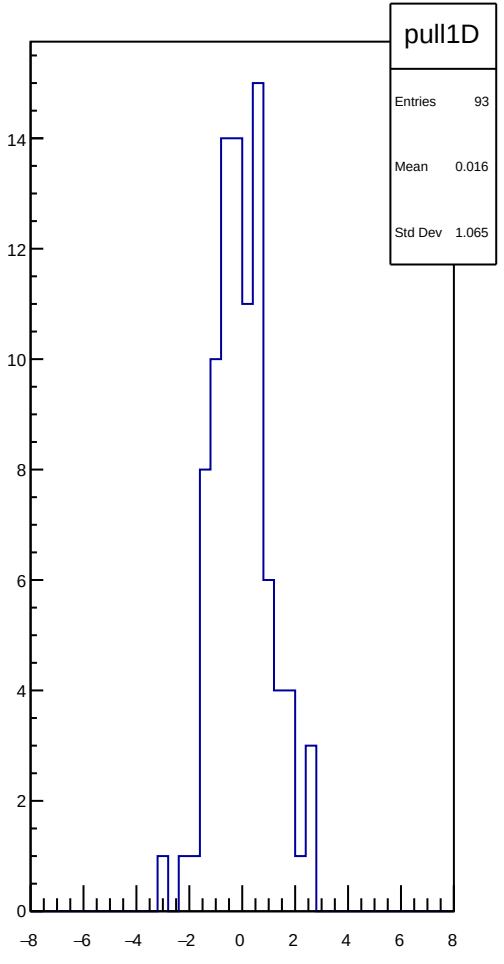

reg_asym_at2_dd_rms vs run
χ^2 / ndf 141.9 / 92
p0 1805 ± 1.326
1860
1840
1820
1800
1780
1760
1740

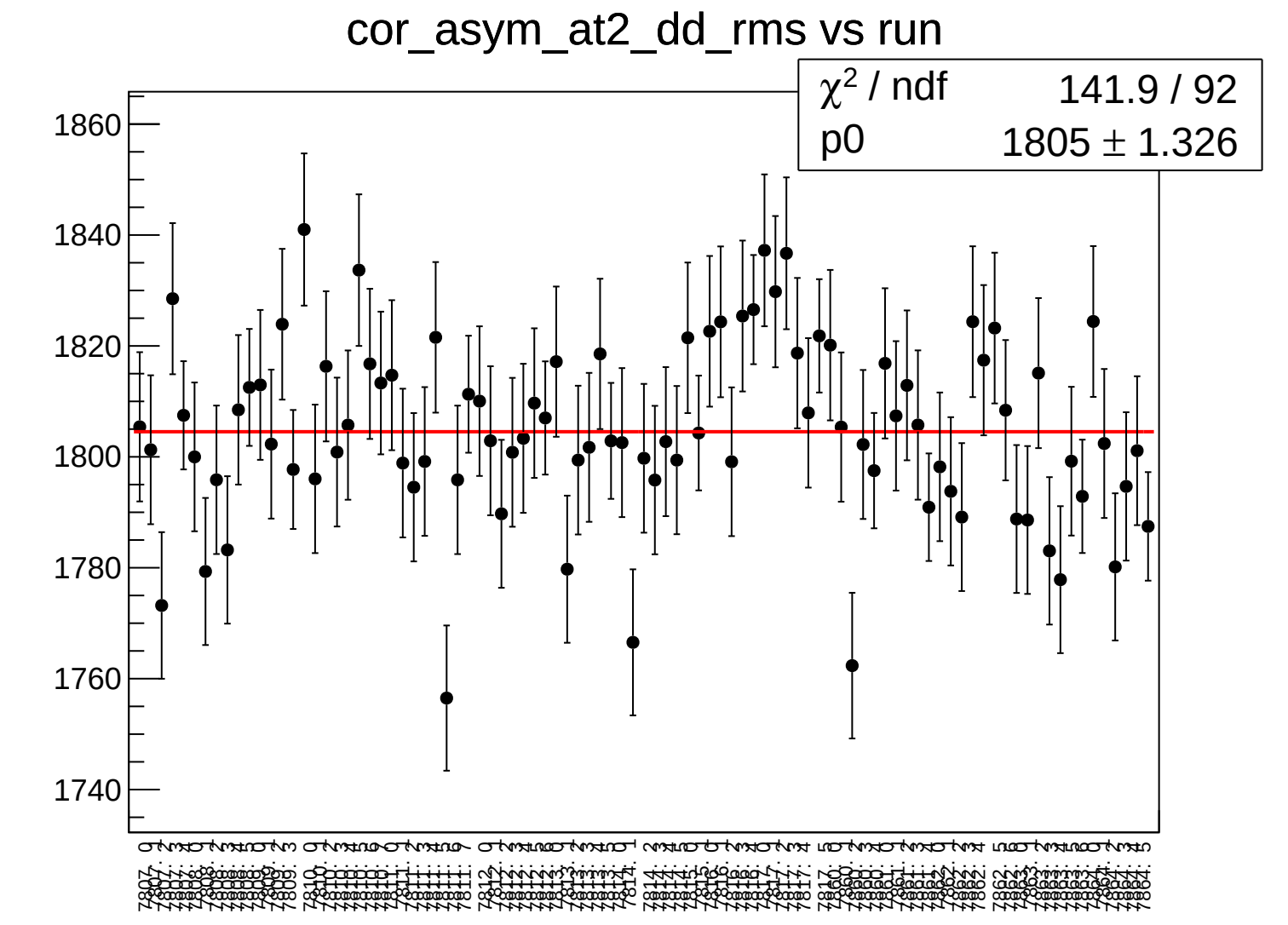

asym_at2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 83.89 / 92
p0 1688 ± 3187
100
50
0
−50
−100
pull
Entries 93
Mean −27.6
Std Dev 0
2
1
0
−1
−2

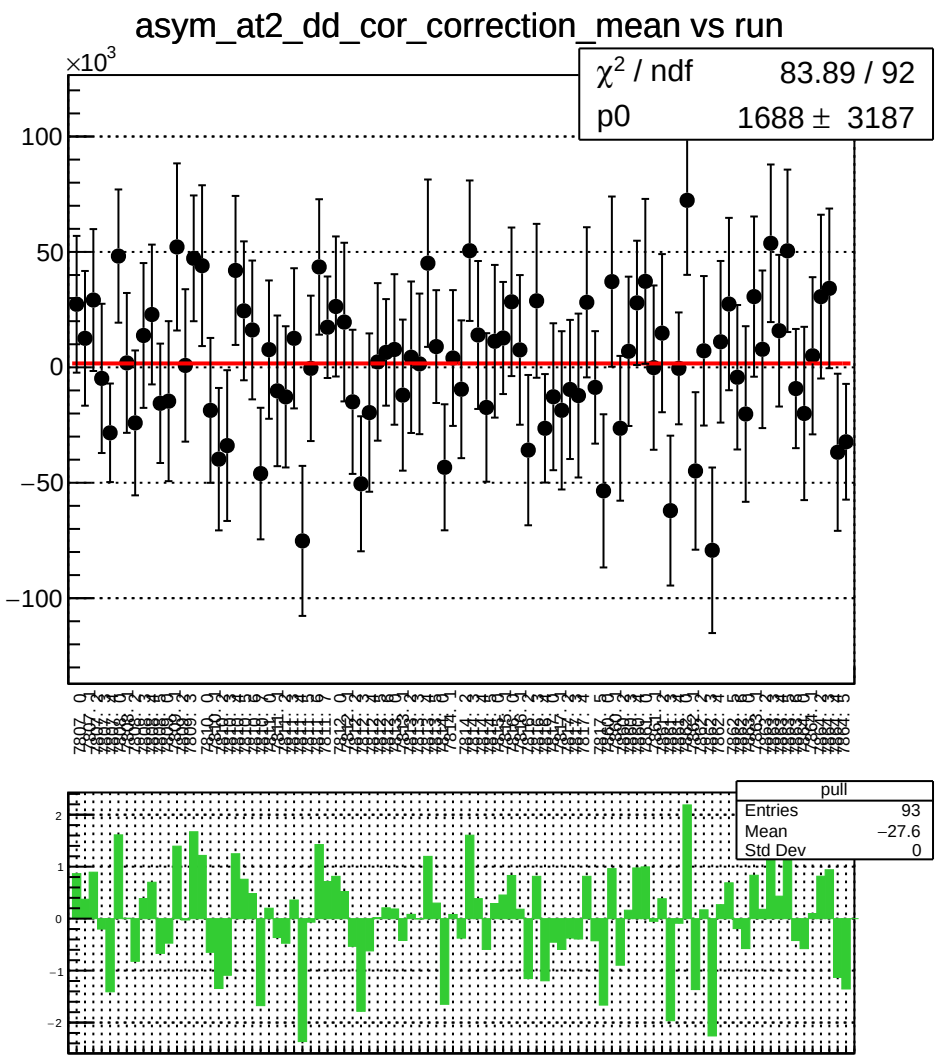

pull1D
Entries 93
Mean 0.01483
Std Dev 0.9496
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

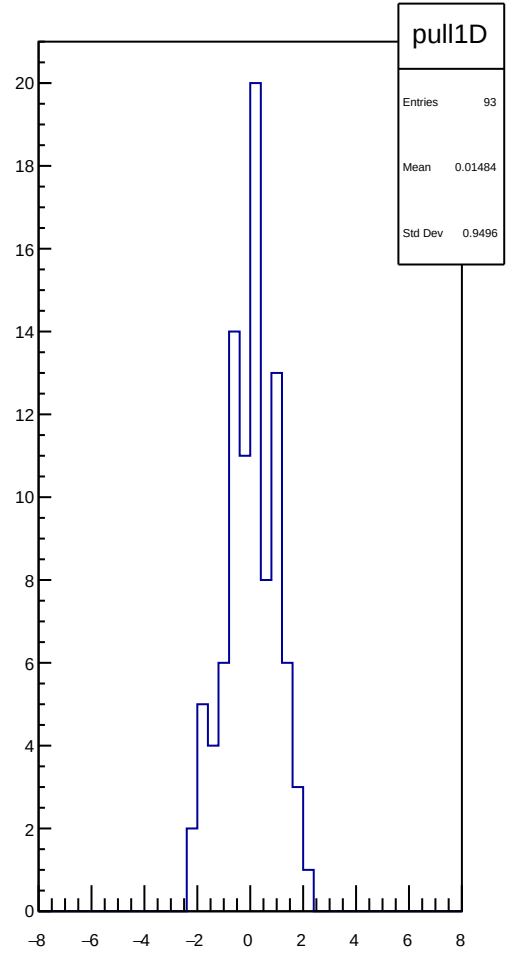

asym_at2_dd_reg_correction_rms vs run
χ² / ndf 8406 / 92
p0 3060 ± 2.254
3600
3400
3200
3000
2800
2600

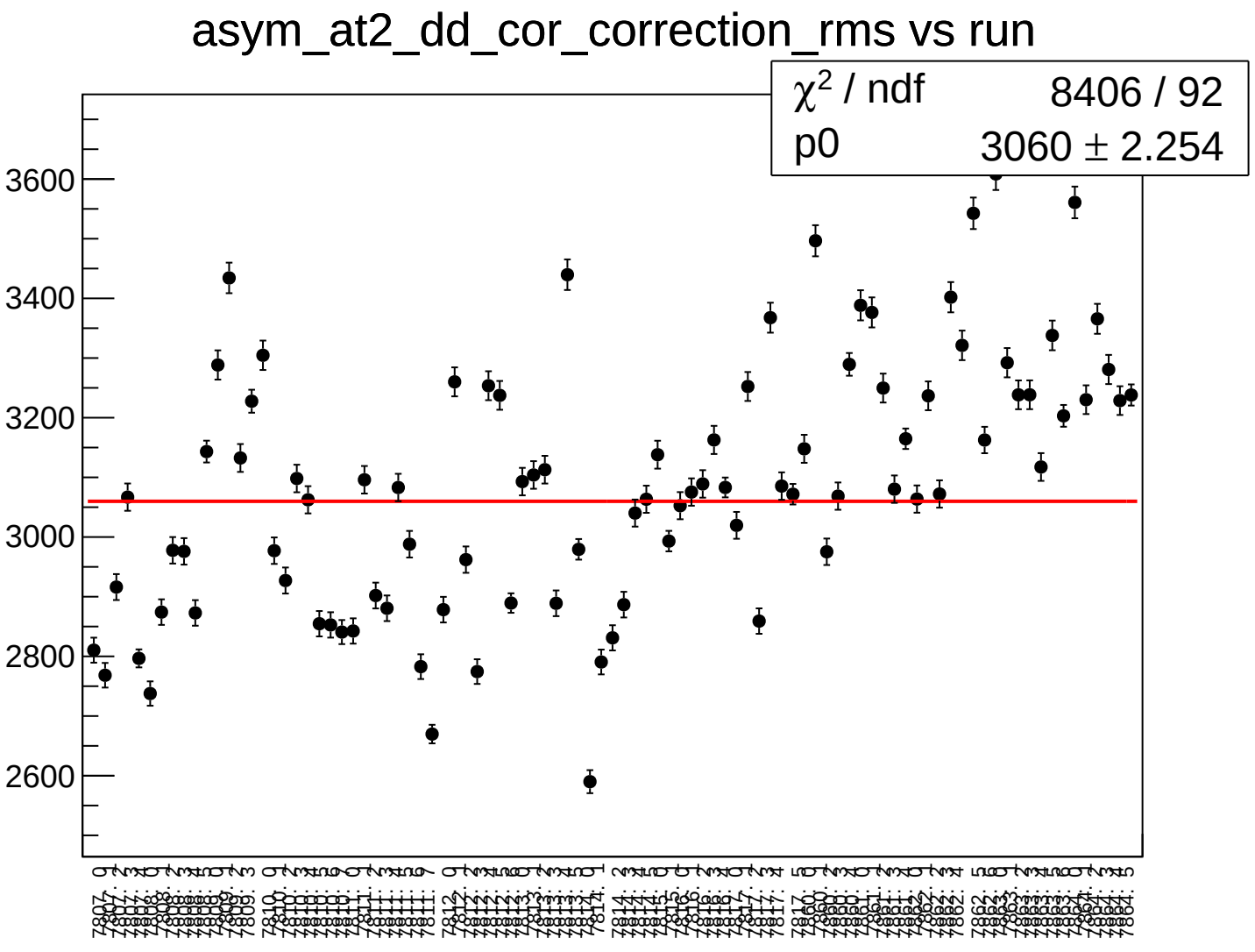

cor_asym_at2_dd_mean vs run
χ² / ndf 105.6 / 92
p0 1960 ± 1876
pull
Entries 93
Mean −3.959
Std Dev 0

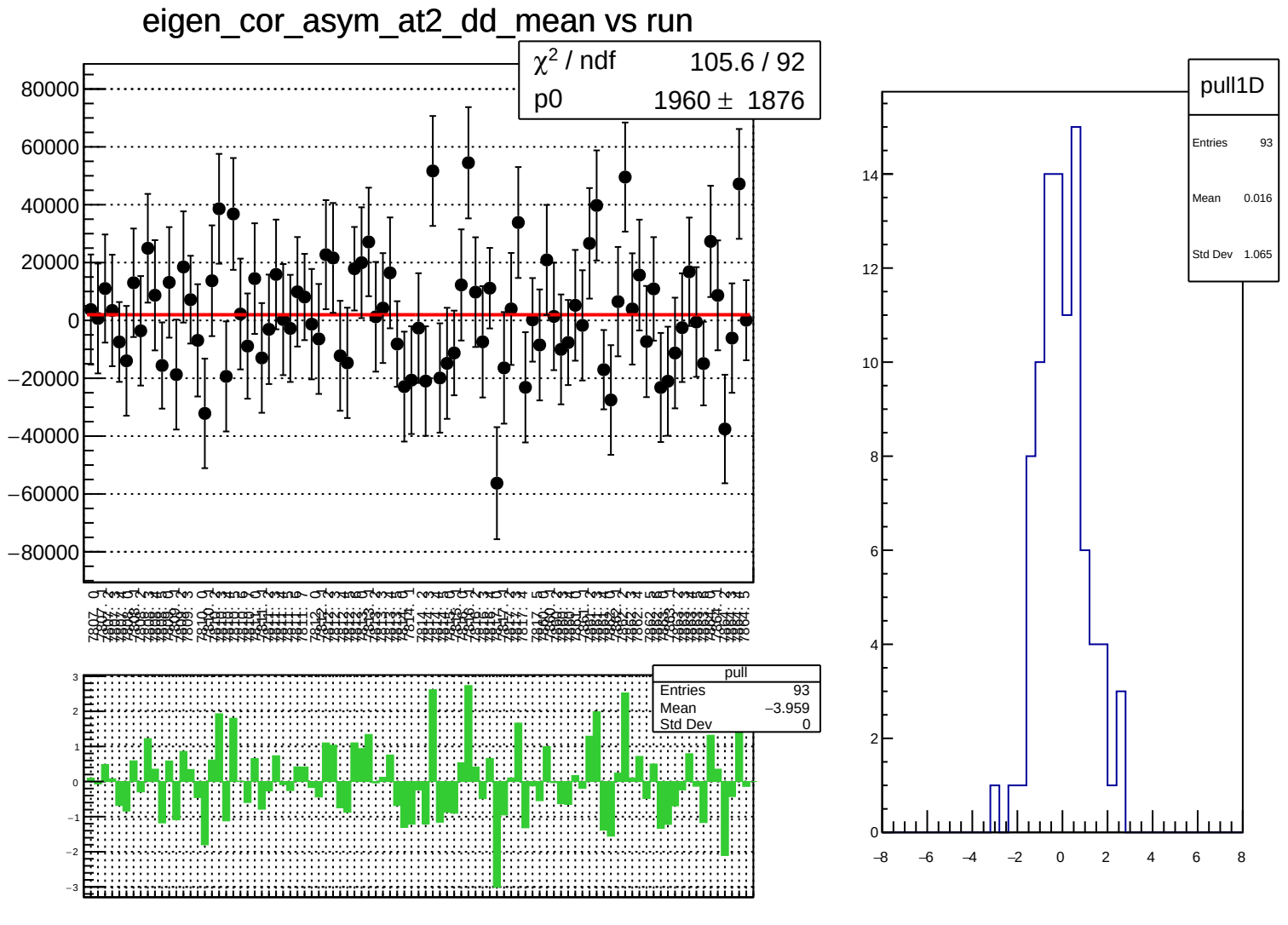

pull1D
Entries 93
Mean 0.016
Std Dev 1.065

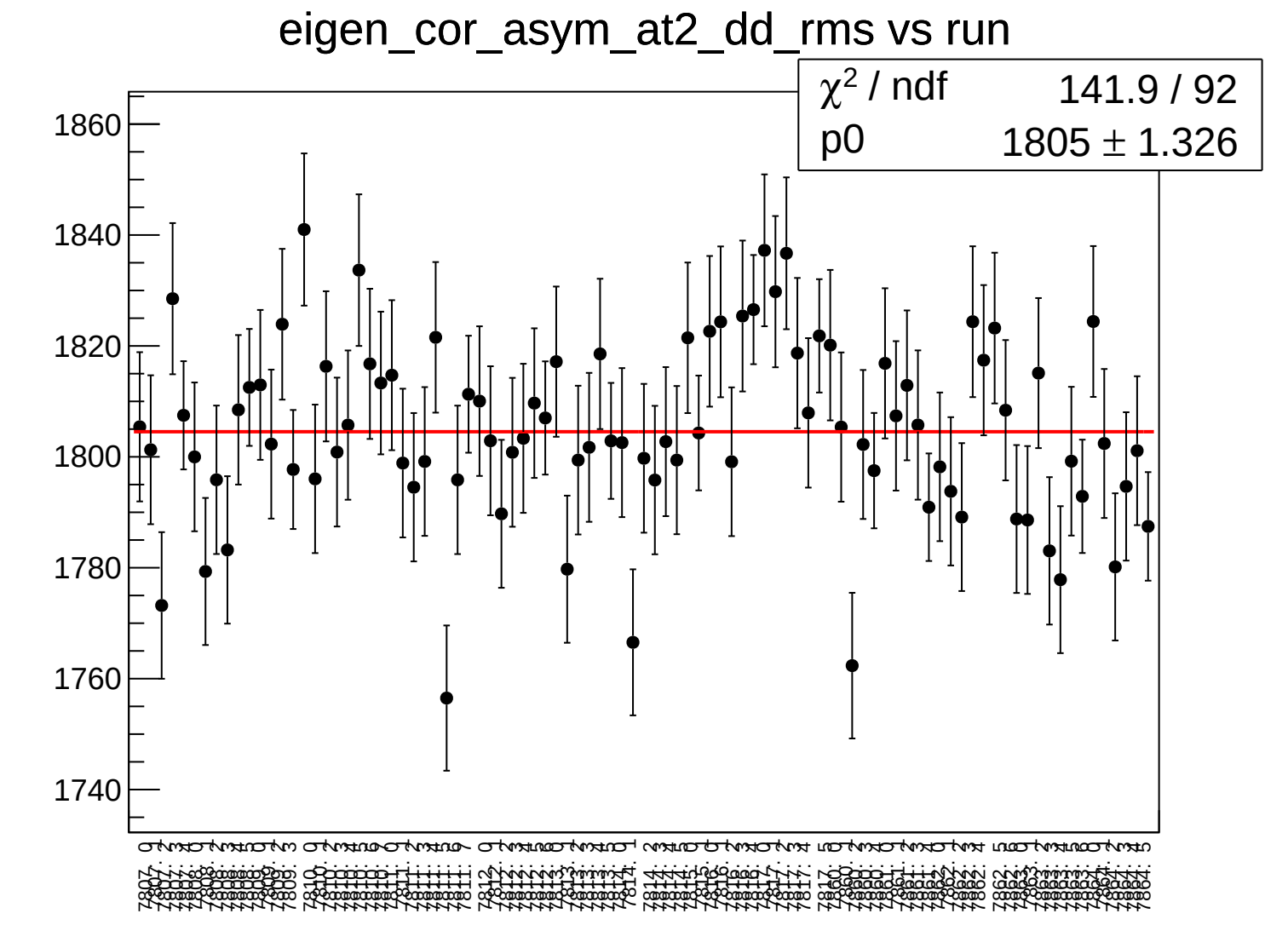

cor_asym_at2_dd_rms vs run
χ² / ndf 141.9 / 92
p0 1805 ± 1.326
1860
1840
1820
1800
1780
1760
1740

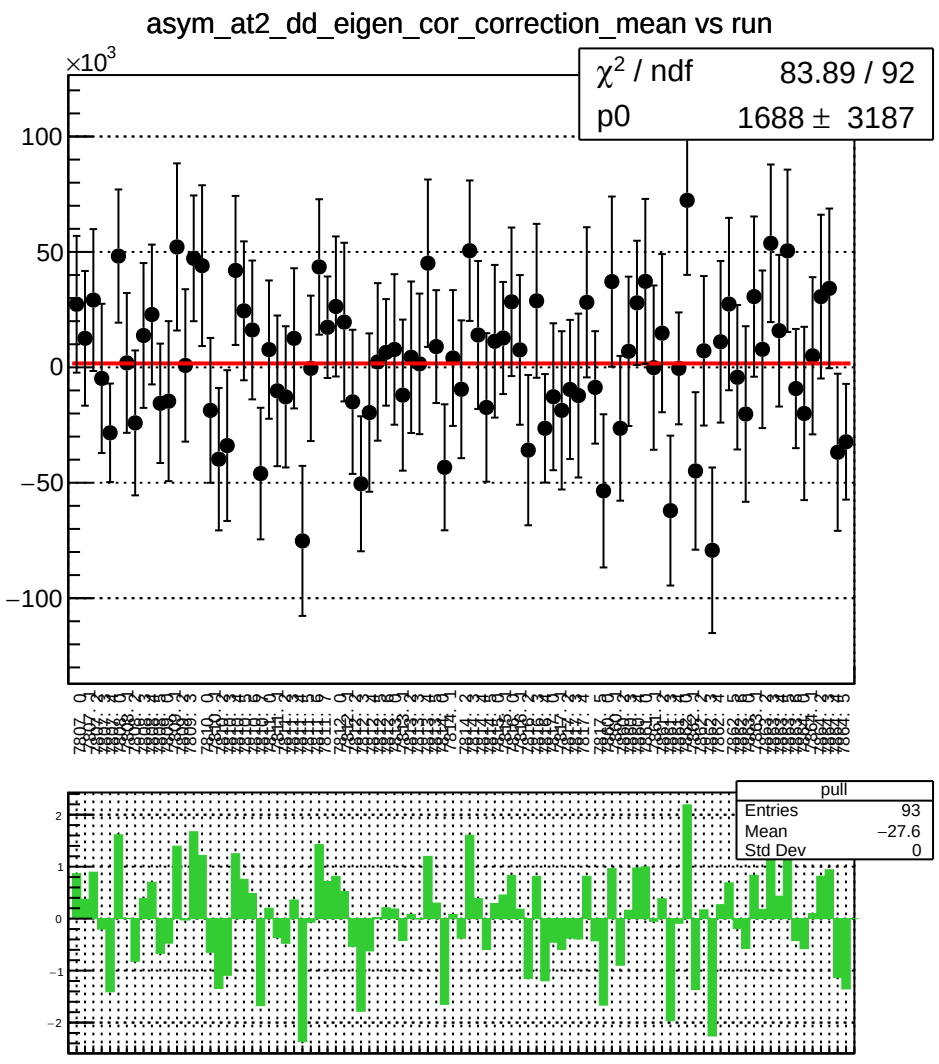

asym_at2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 83.89 / 92
p0 1688 ± 3187
100
50
0
−50
−100
pull
Entries 93
Mean −27.6
Std Dev 0
2
1
0
−1
−2

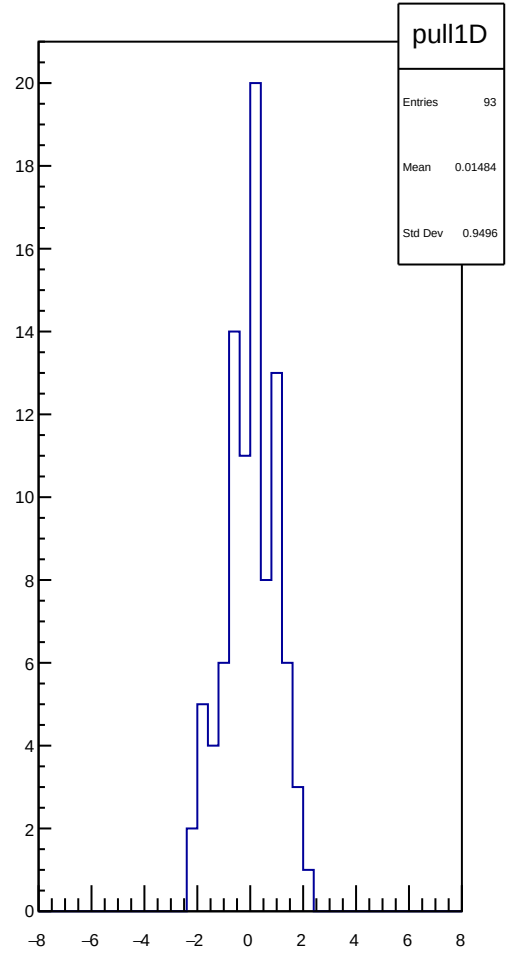

pull1D
Entries 93
Mean 0.01484
Std Dev 0.9496
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

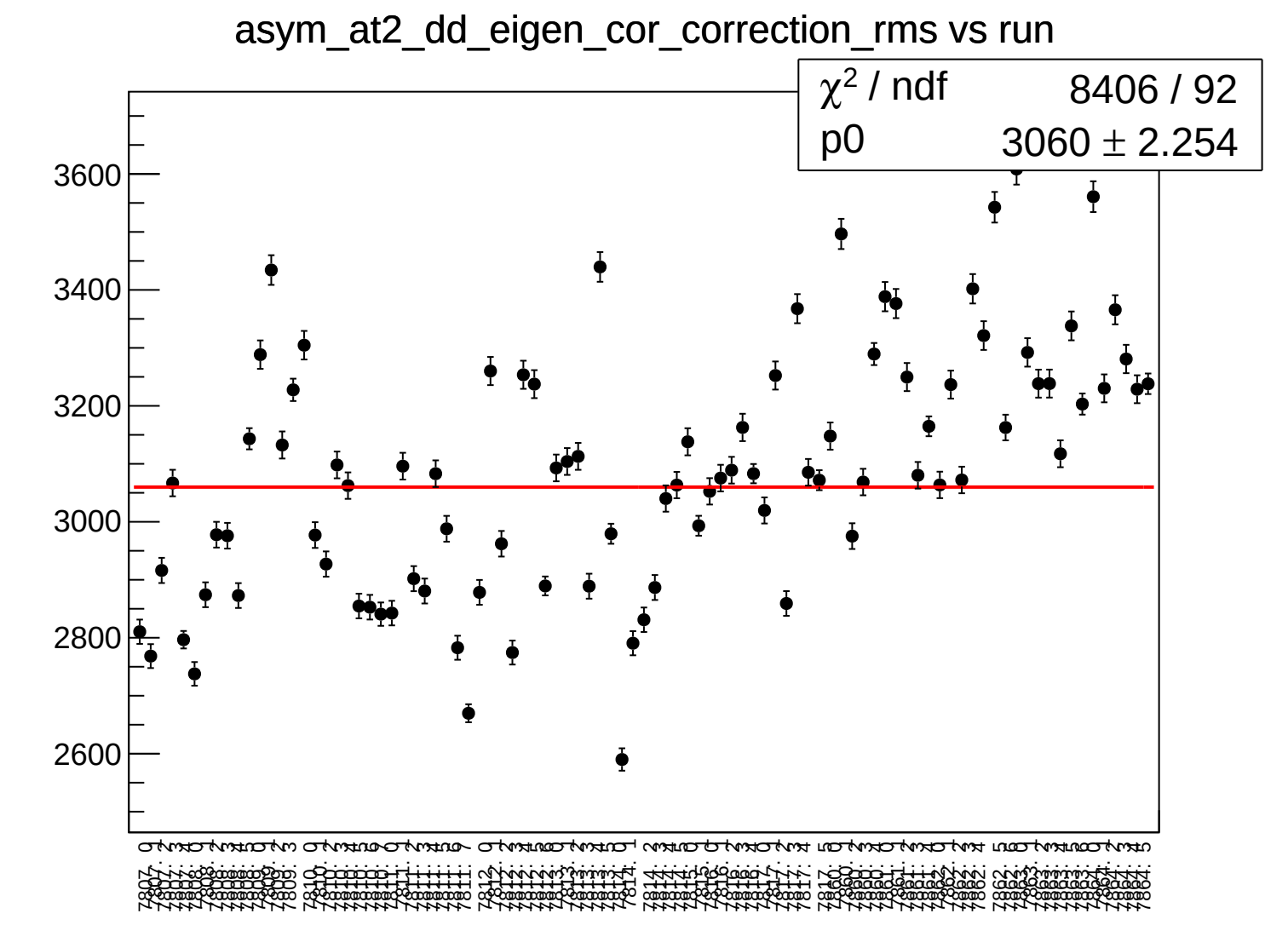

asym_at2_dd_cor_correction_rms vs run
χ² / ndf 8406 / 92
p0 3060 ± 2.254
3600
3400
3200
3000
2800
2600

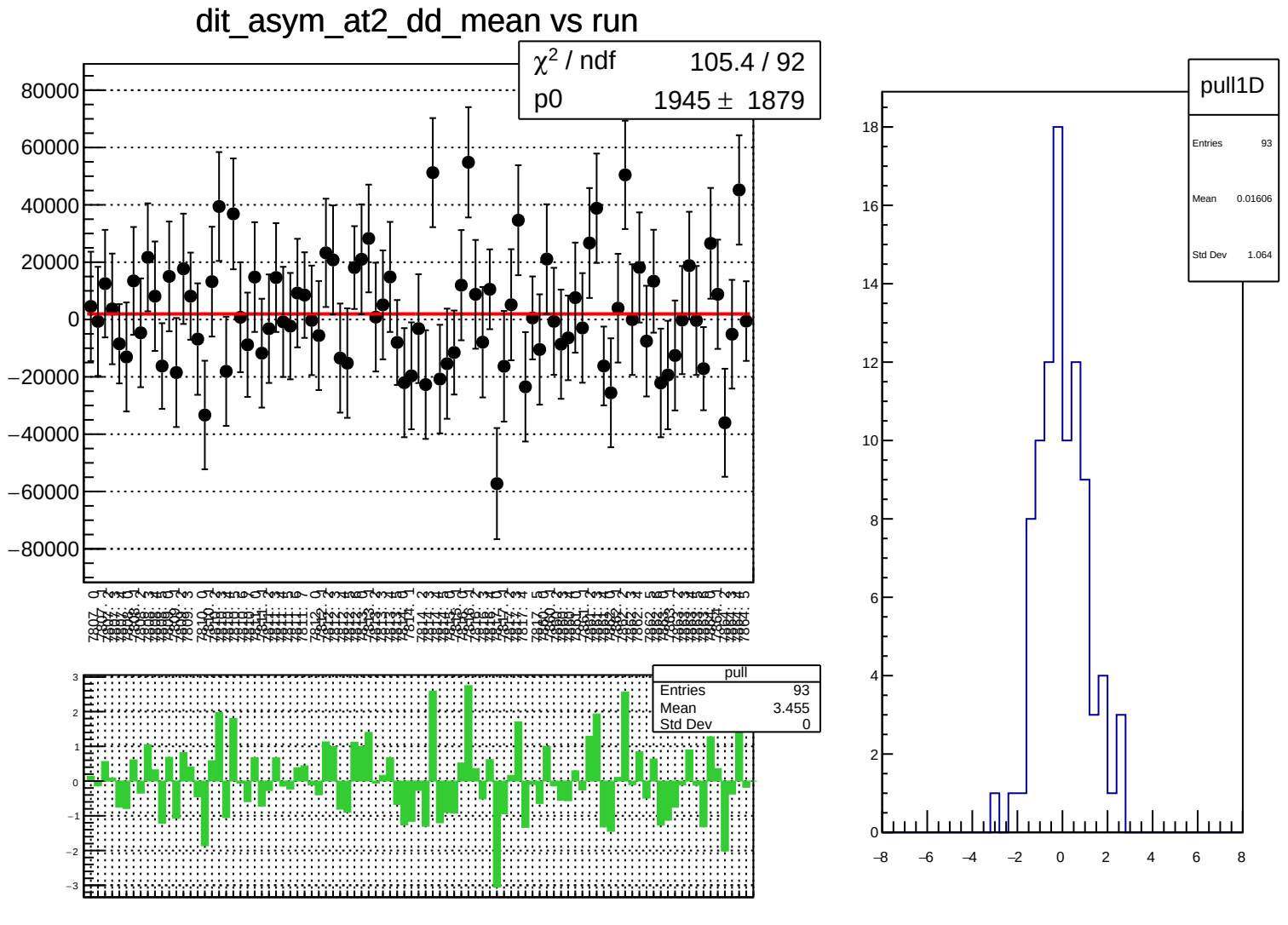

eigen_cor_asym_at2_dd_mean vs run
χ² / ndf 105.6 / 92
p0 1960 ± 1876
pull
Entries 93
Mean −3.959
Std Dev 0
pull1D
Entries 93
Mean 0.016
Std Dev 1.065

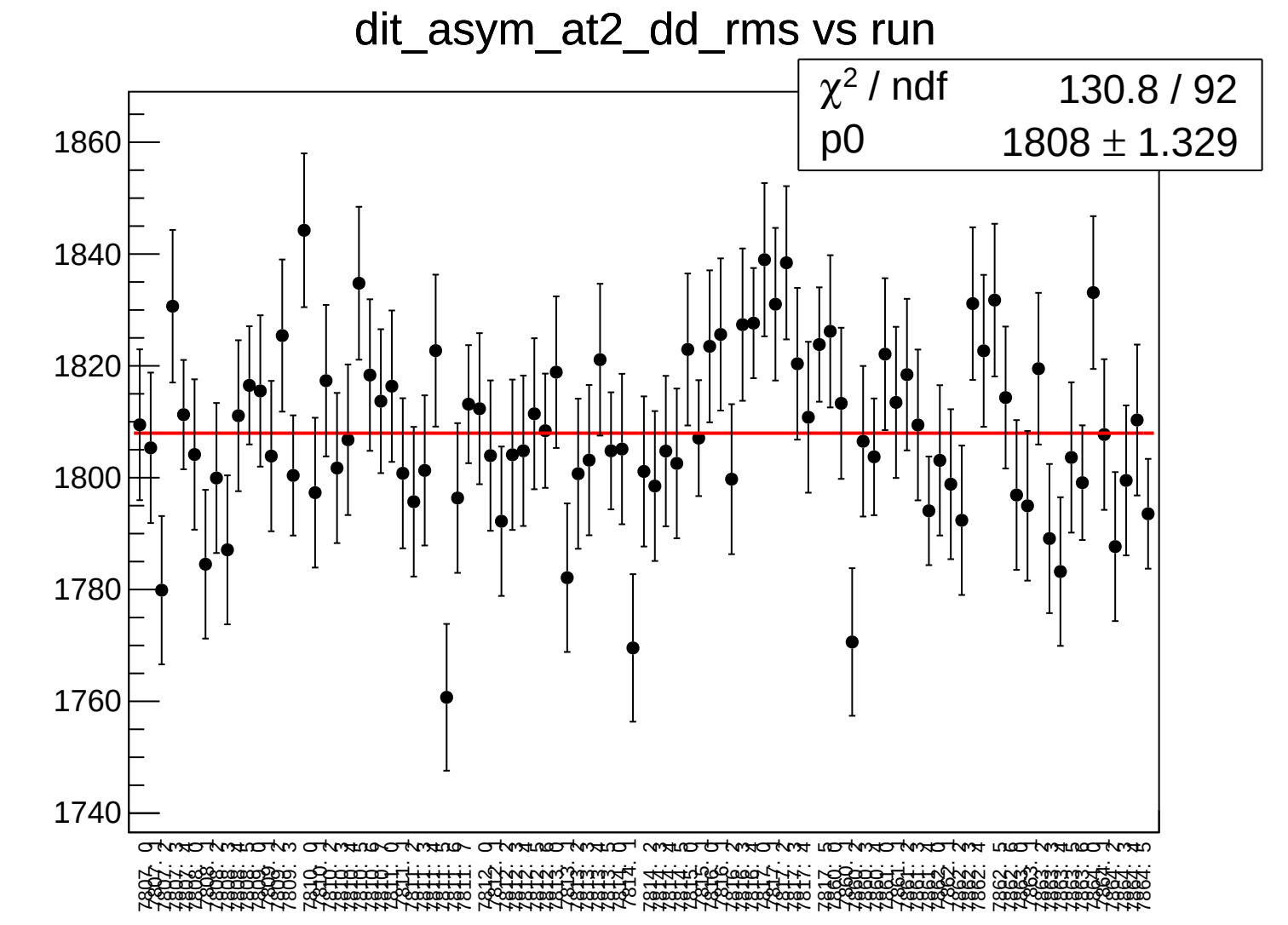

eigen_cor_asym_at2_dd_rms vs run
χ² / ndf 141.9 / 92
p0 1805 ± 1.326
1860
1840
1820
1800
1780
1760
1740

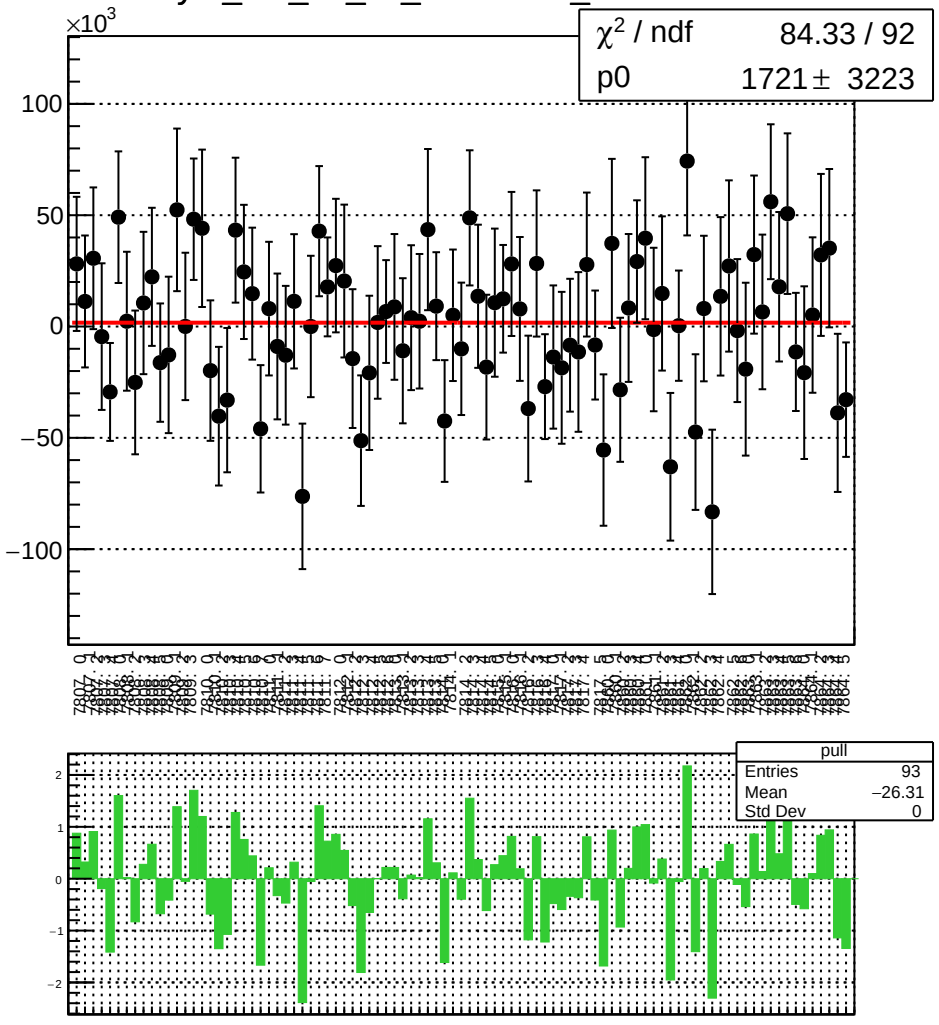

asym_at2_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 83.89 / 92
p0 1688 ± 3187
100
50
0
−50
−100
pull
Entries 93
Mean −27.6
Std Dev 0
2
1
0
−1
−2

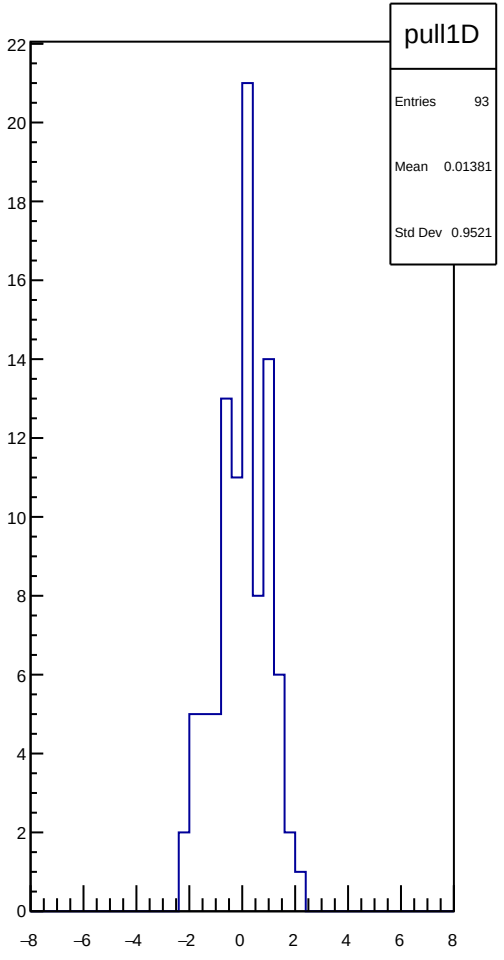

pull1D
Entries 93
Mean 0.01484
Std Dev 0.9496
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

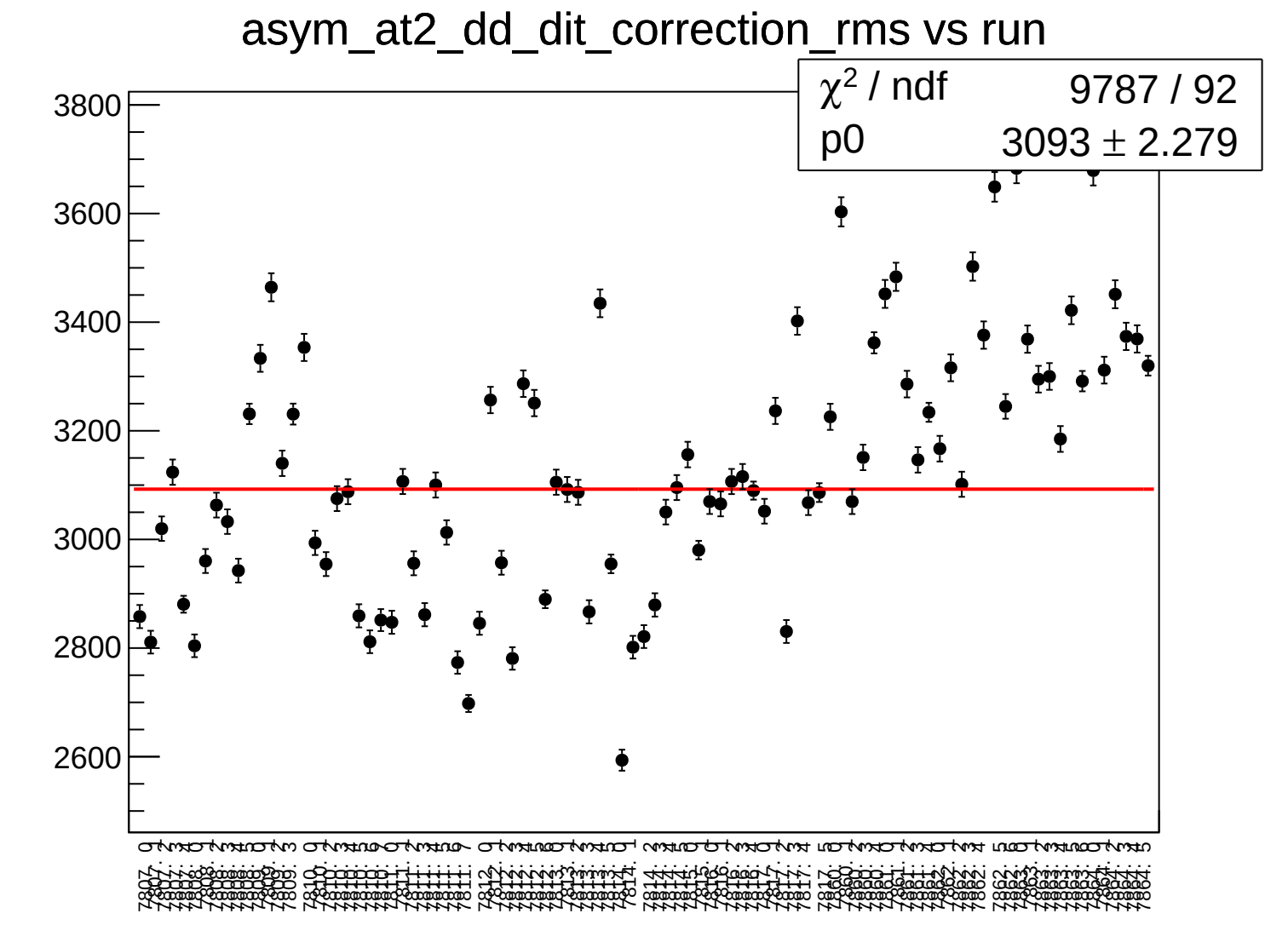

asym_at2_dd_eigen_cor_correction_rms vs run
χ² / ndf 8406 / 92
p0 3060 ± 2.254
3600
3400
3200
3000
2800
2600

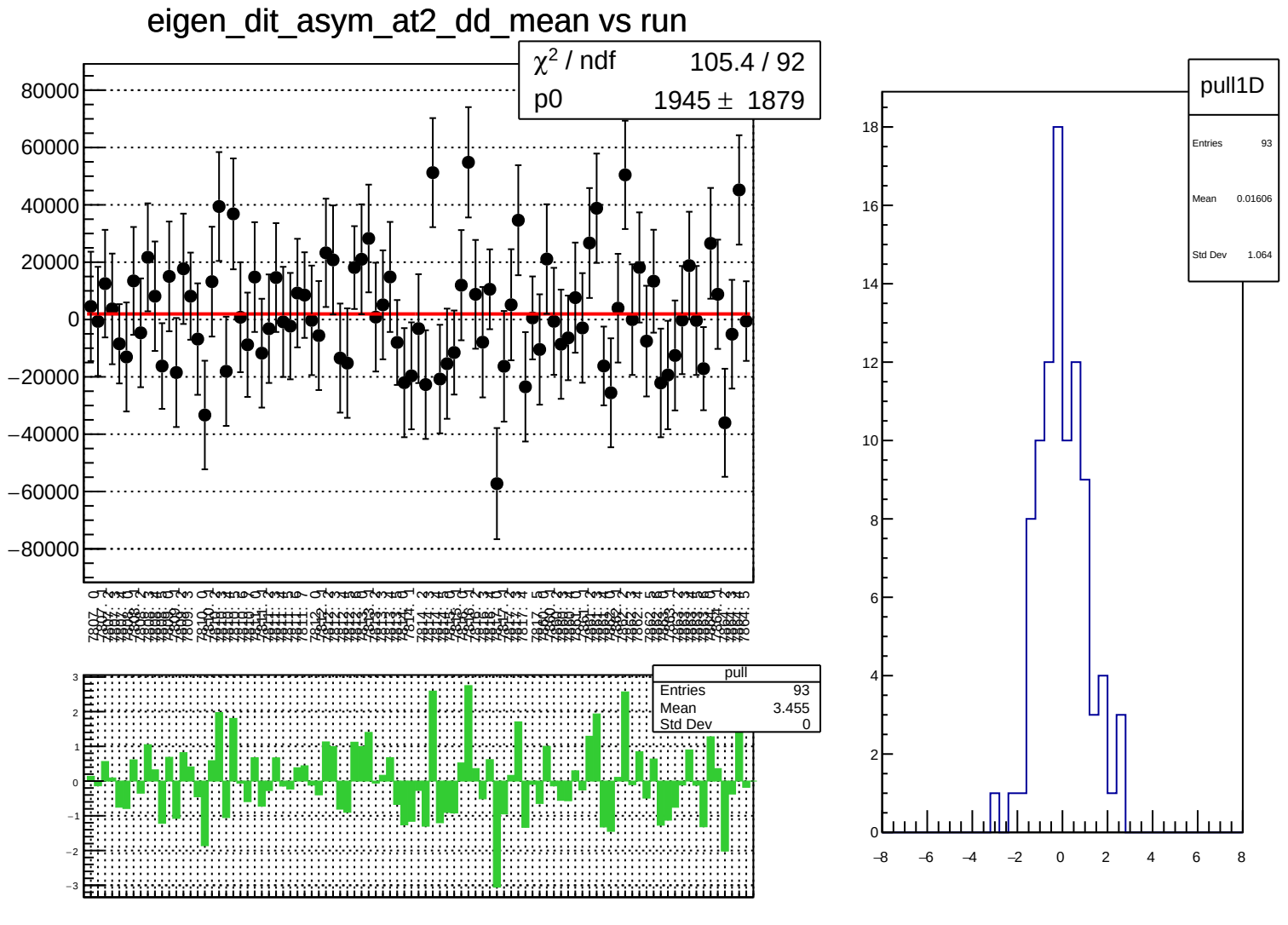

dit_asym_at2_dd_mean vs run
χ² / ndf 105.4 / 92
p0 1945 ± 1879
pull
Entries 93
Mean 3.455
Std Dev 0
pull1D
Entries 93
Mean 0.01606
Std Dev 1.064

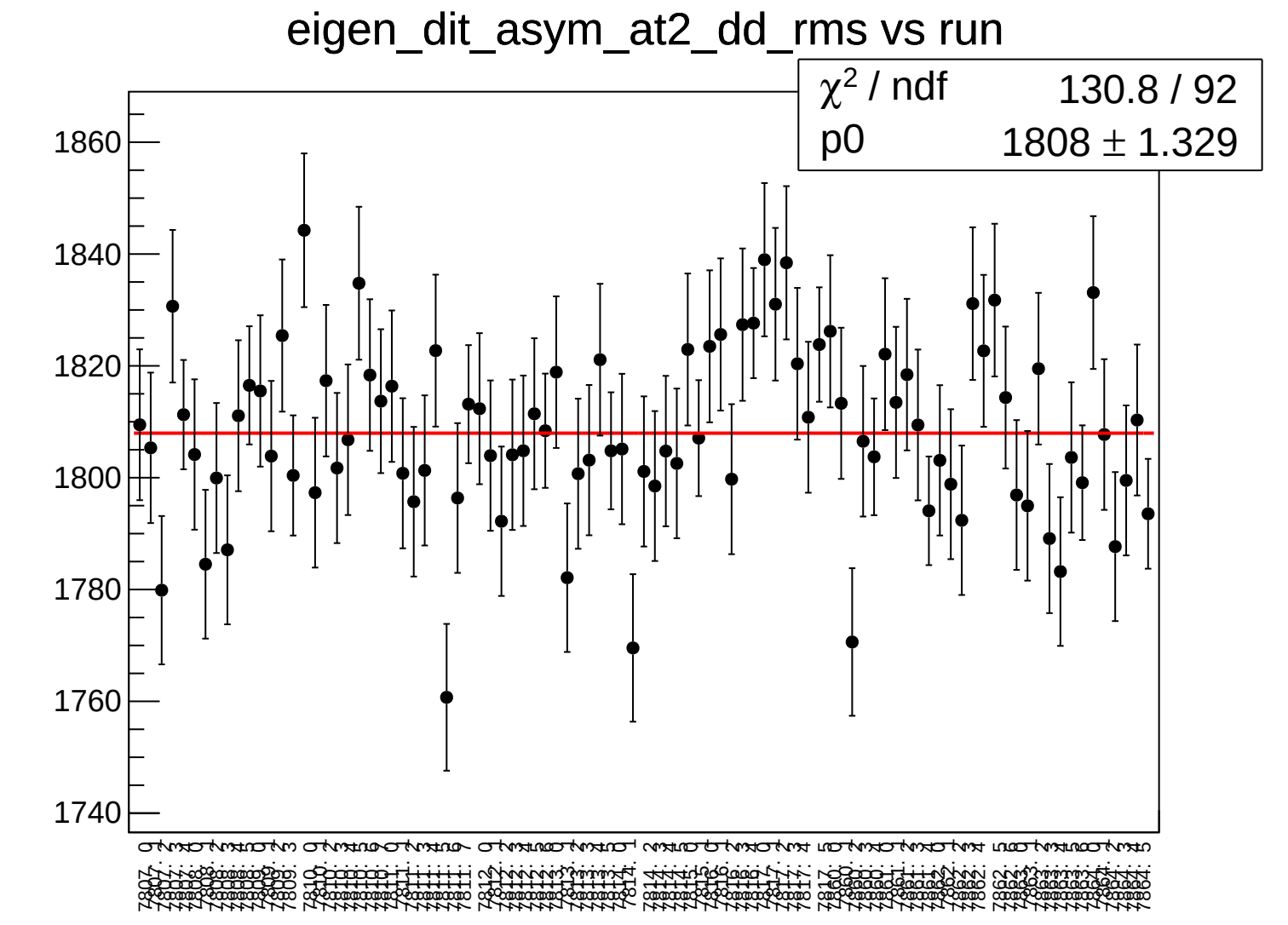

dit_asym_at2_dd_rms vs run
χ^2 / ndf 130.8 / 92
p0 1808 ± 1.329
1860
1840
1820
1800
1780
1760
1740

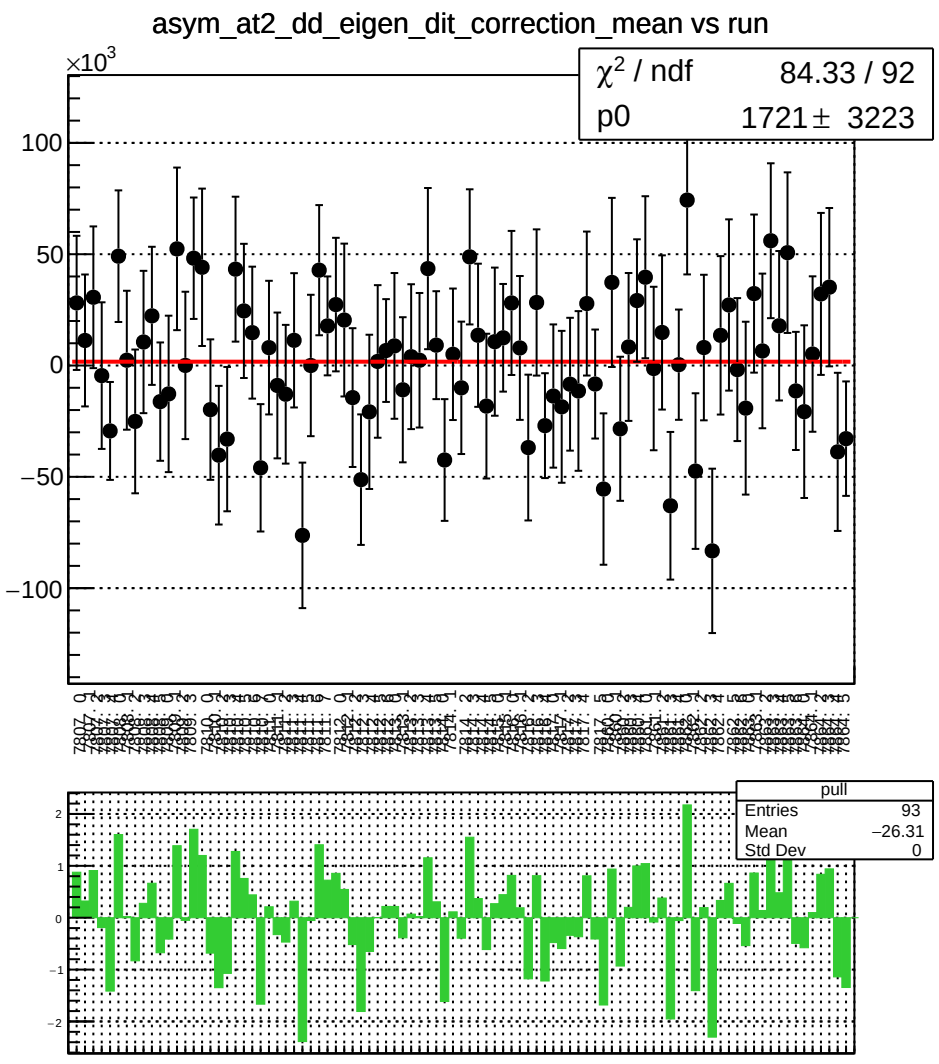

asym_at2_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 84.33 / 92
p0 1721 ± 3223
100
50
0
−50
−100
pull
Entries 93
Mean −26.31
Std Dev 0
2
1
0
−1
−2

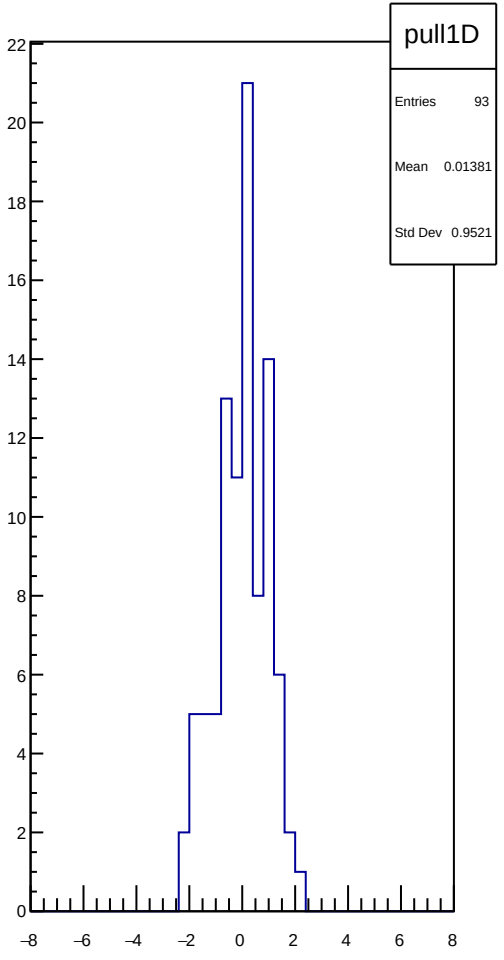

pull1D
Entries 93
Mean 0.01381
Std Dev 0.9521
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

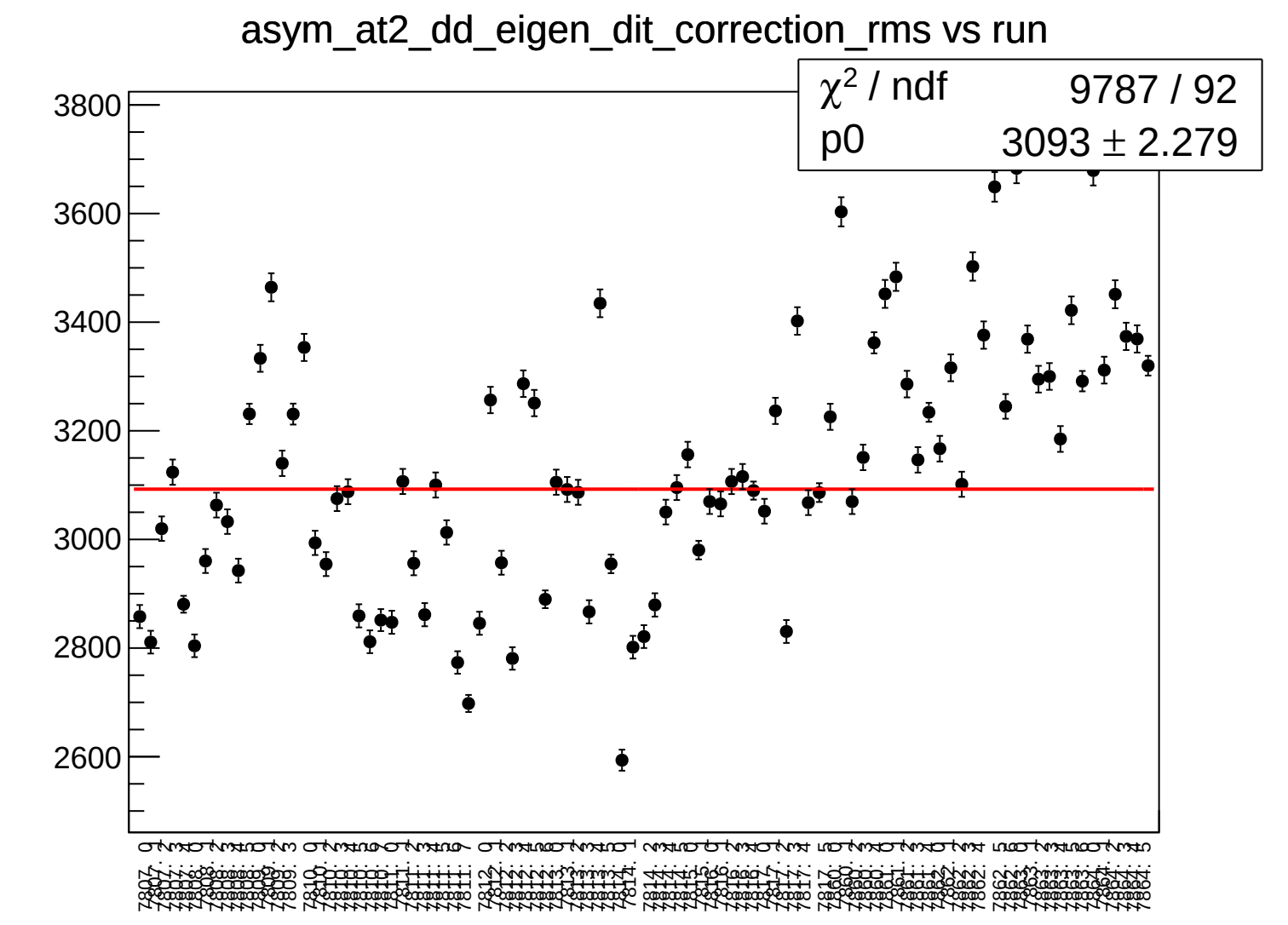

asym_at2_dd_dit_correction_rms vs run
χ² / ndf 9787 / 92
p0 3093 ± 2.279
3800
3600
3400
3200
3000
2800
2600

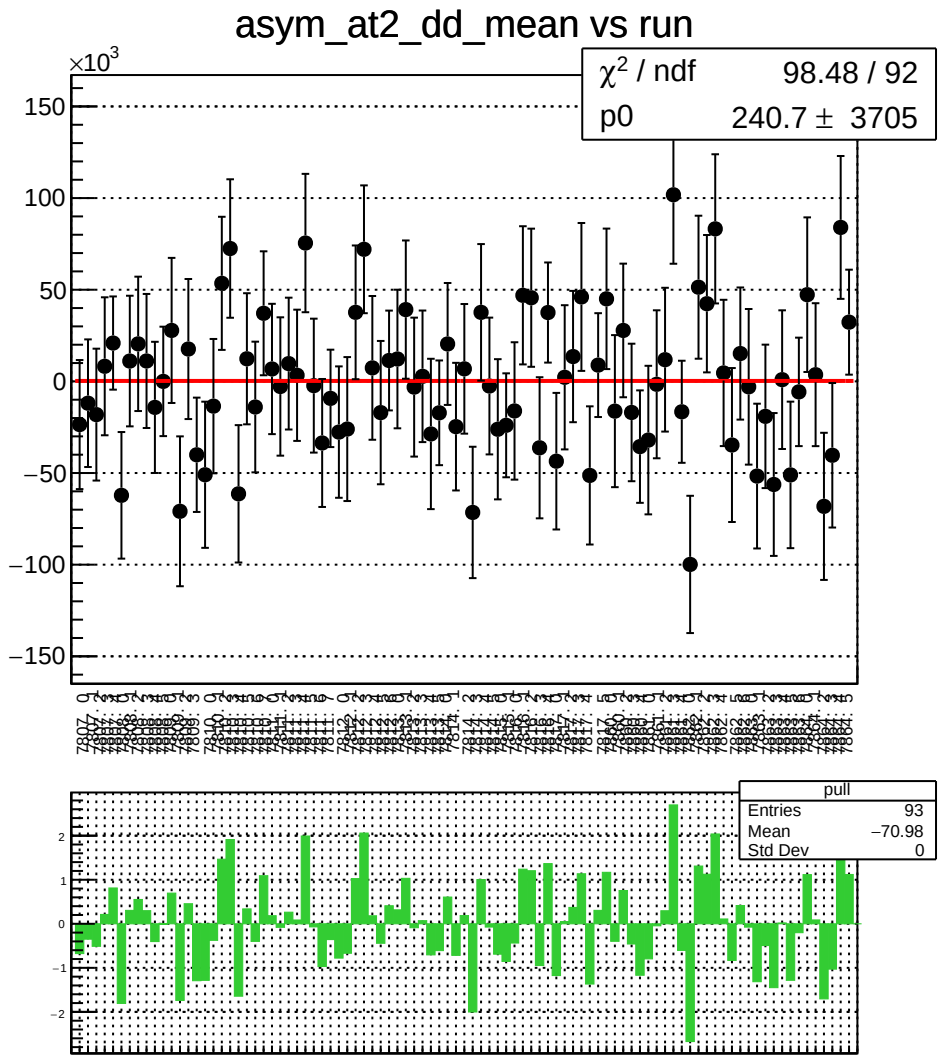

eigen_dit_asym_at2_dd_mean vs run
χ² / ndf 105.4 / 92
p0 1945 ± 1879
pull
Entries 93
Mean 3.455
Std Dev 0
pull1D
Entries 93
Mean 0.01606
Std Dev 1.064

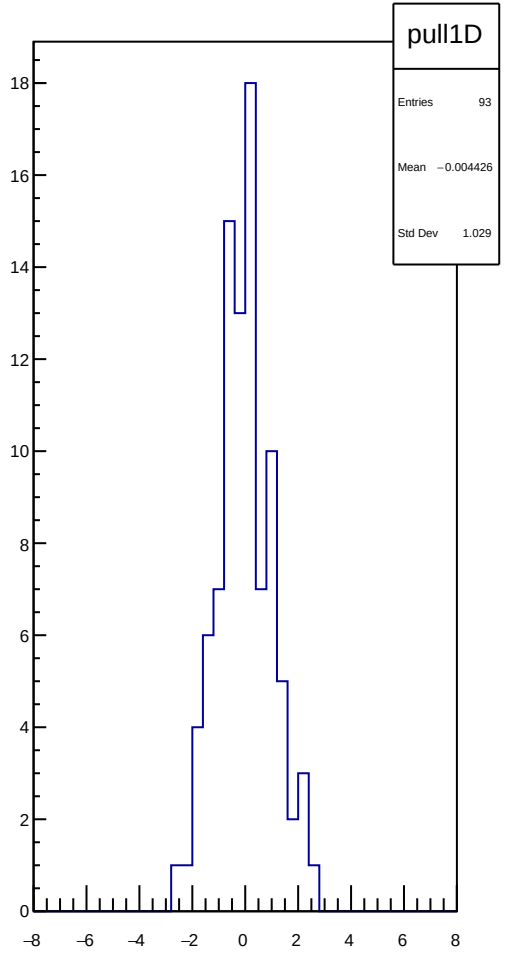

eigen_dit_asym_at2_dd_rms vs run
χ² / ndf 130.8 / 92
p0 1808 ± 1.329
1860
1840
1820
1800
1780
1760
1740

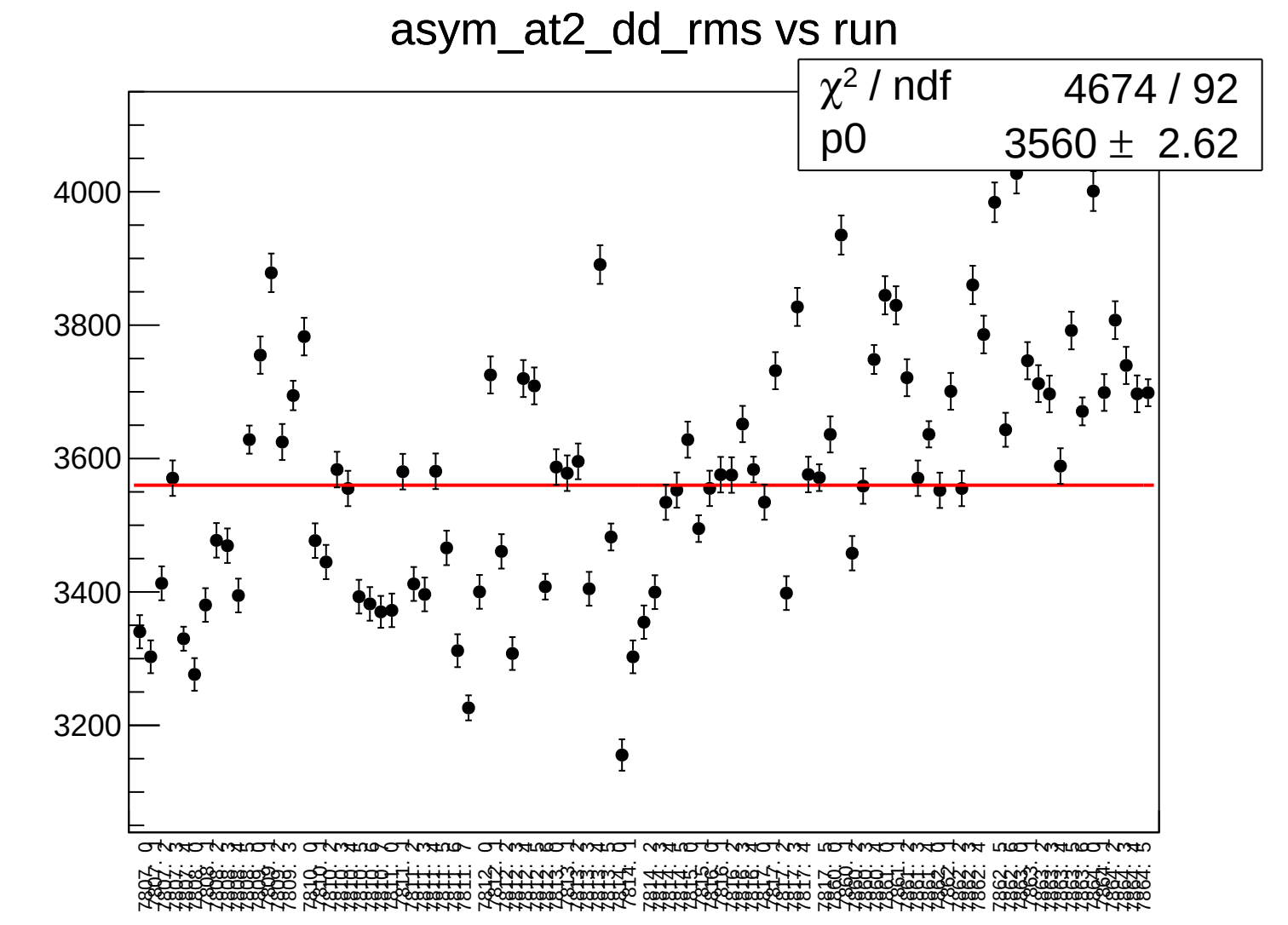

asym_at2_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 84.33 / 92
p0 1721 ± 3223
100
50
0
−50
−100
pull
Entries 93
Mean −26.31
Std Dev 0
2
1
0
−1
−2

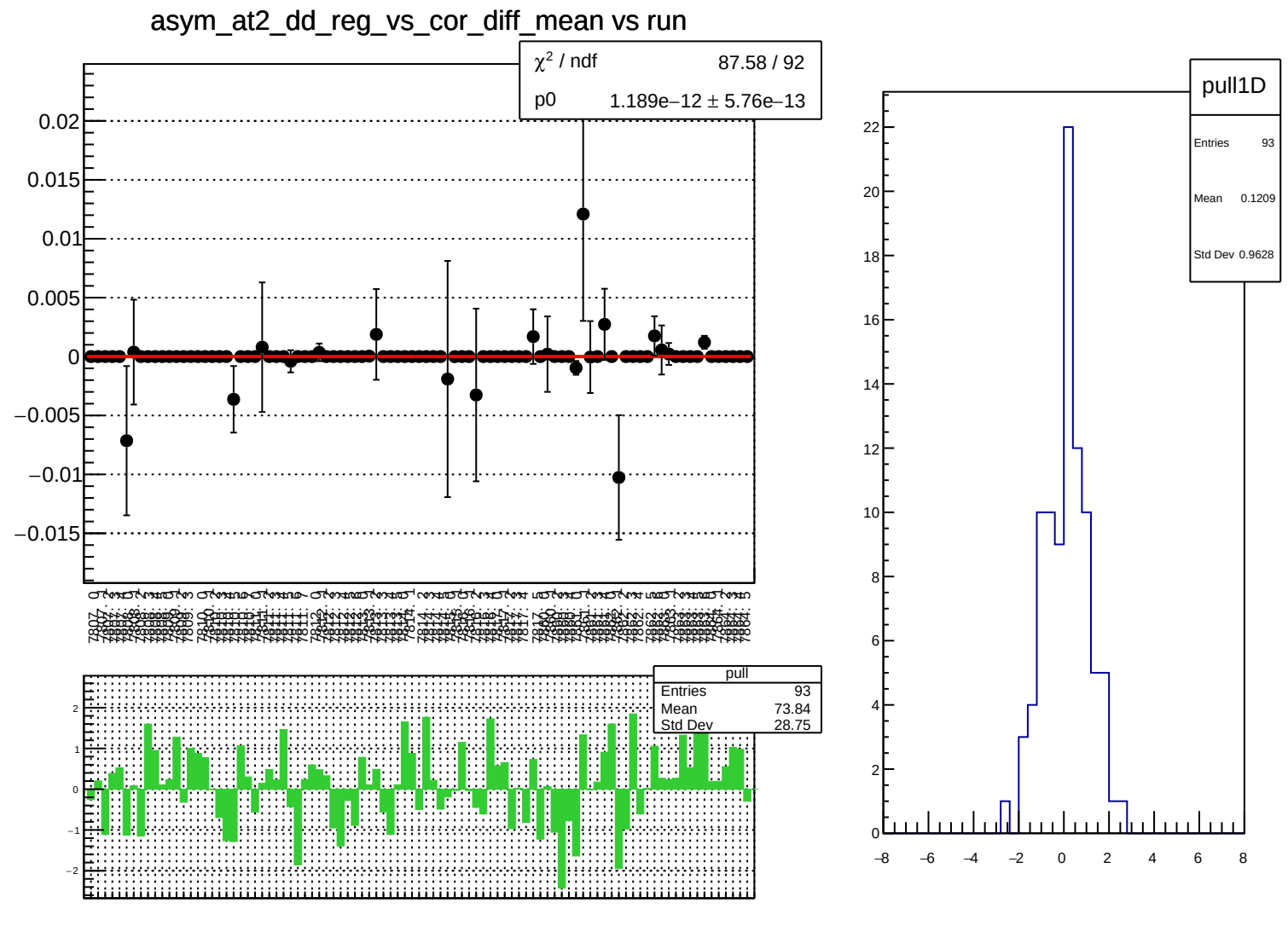

pull1D
Entries 93
Mean 0.01381
Std Dev 0.9521
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

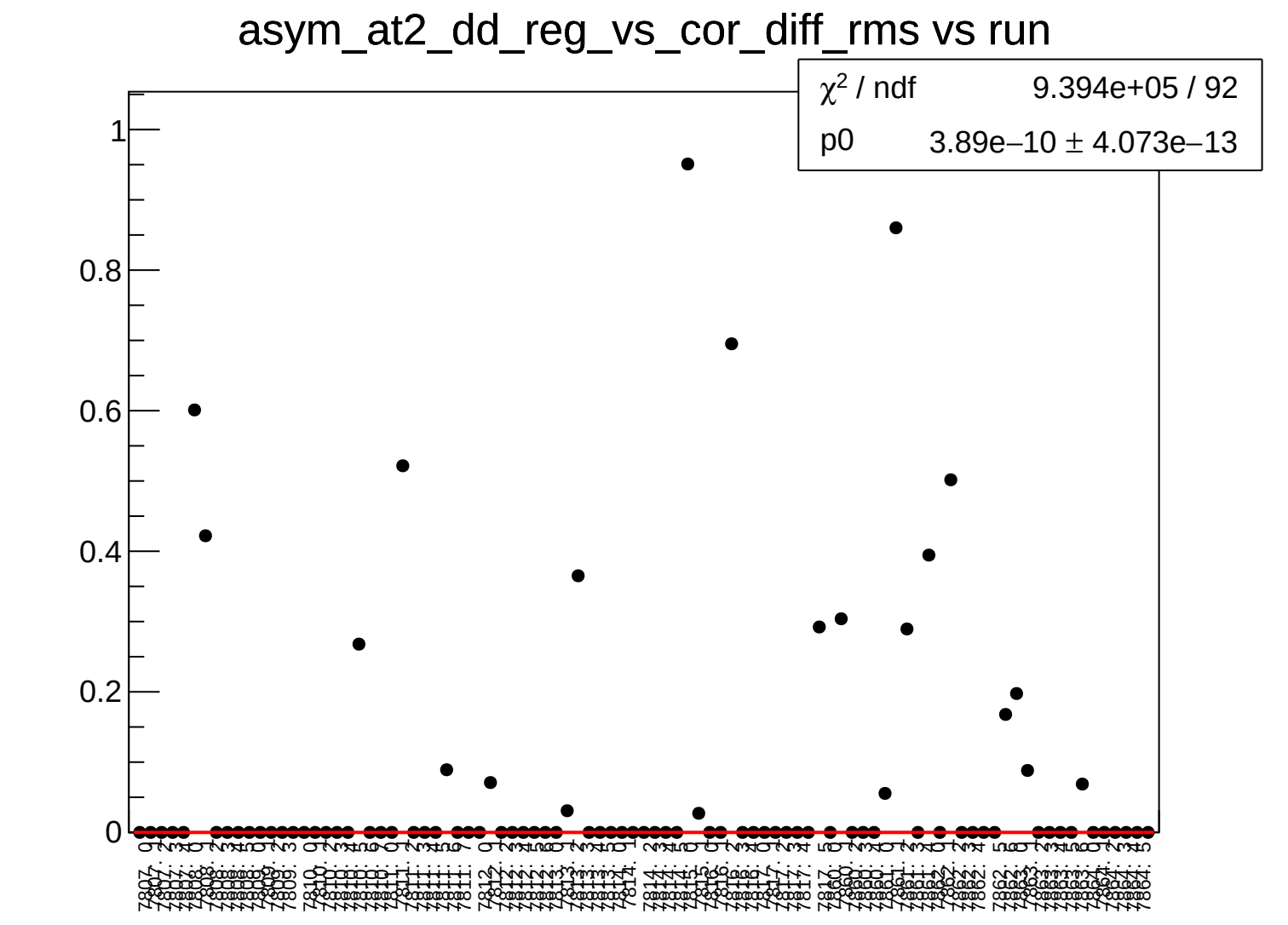

asym_at2_dd_eigen_dit_correction_rms vs run
χ² / ndf 9787 / 92
p0 3093 ± 2.279
3800
3600
3400
3200
3000
2800
2600

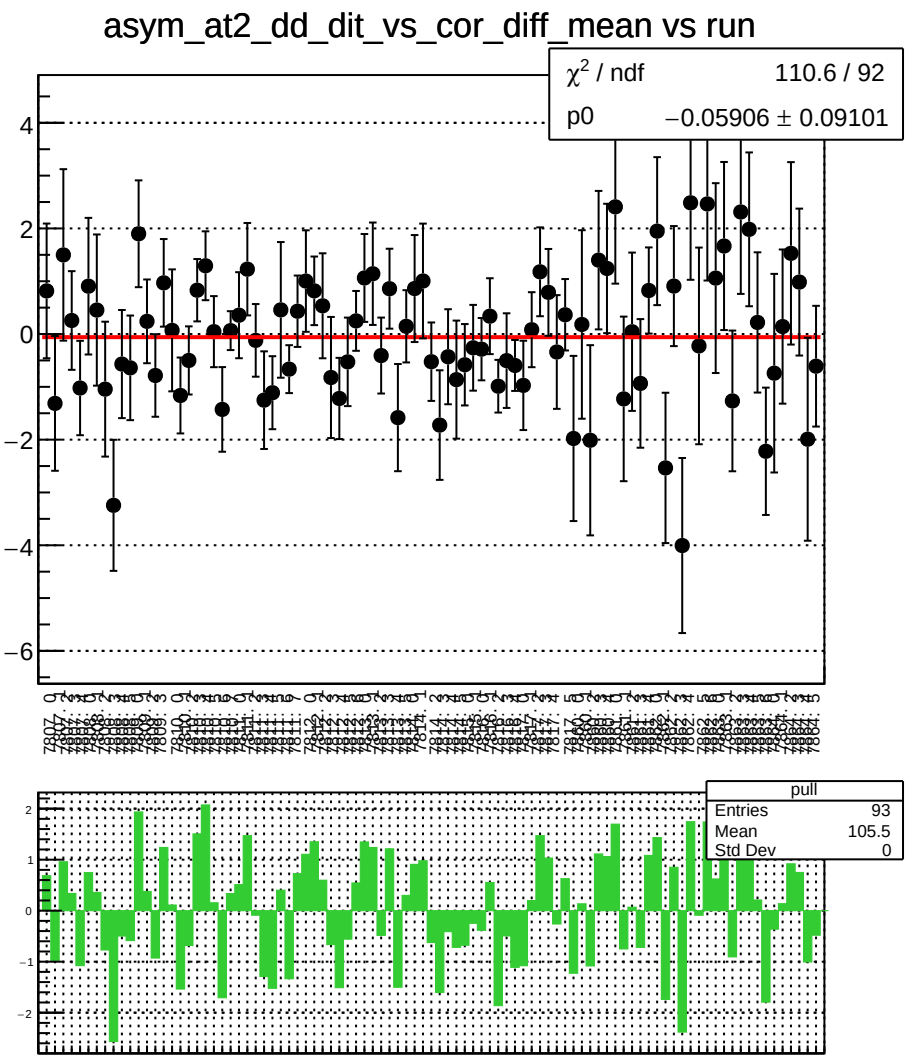

asym_at2_dd_mean vs run
×10^3
χ² / ndf 98.48 / 92
p0 240.7 ± 3705
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean −70.98
Std Dev 0
2
1
0
−1
−2

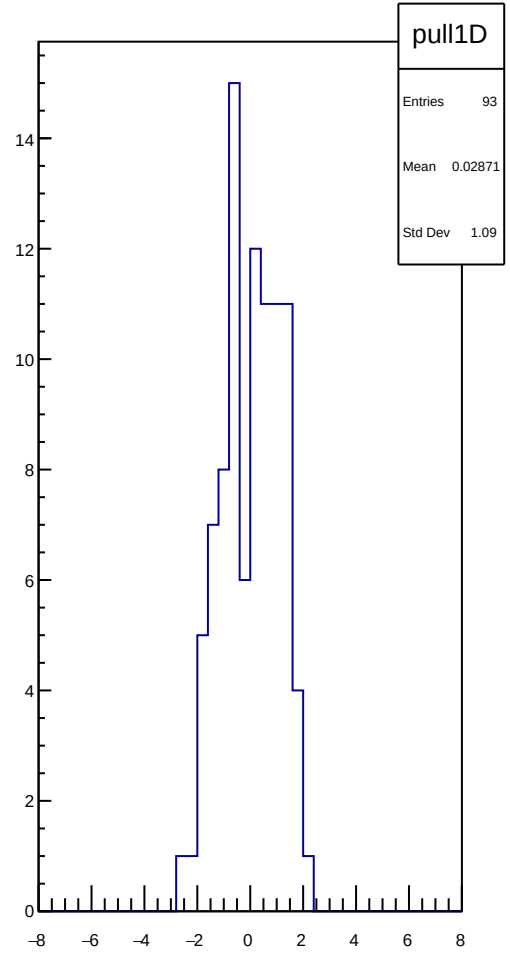

pull1D
Entries 93
Mean −0.004426
Std Dev 1.029
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

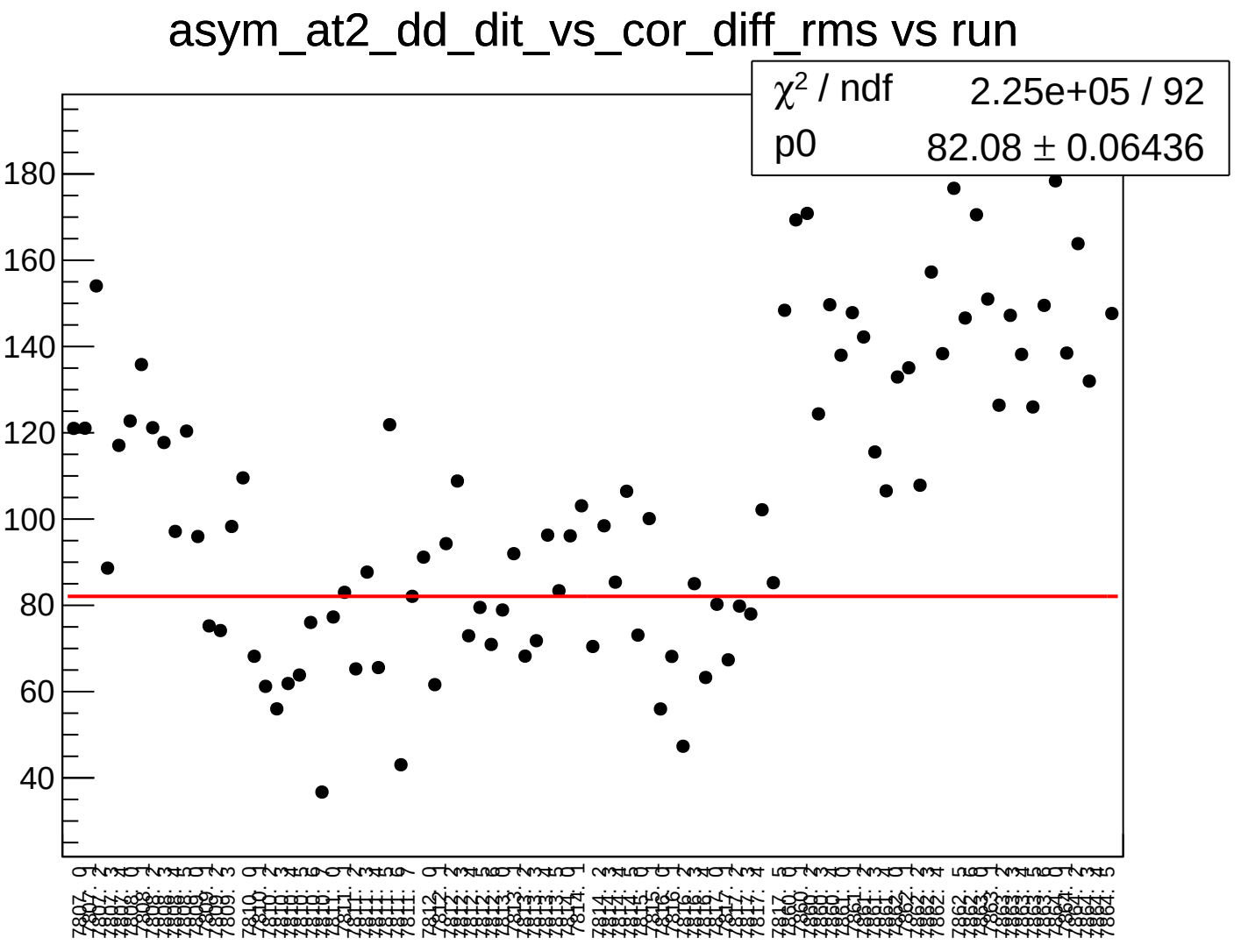

asym_at2_dd_rms vs run
χ² / ndf 4674 / 92
p0 3560 ± 2.62
4000
3800
3600
3400
3200

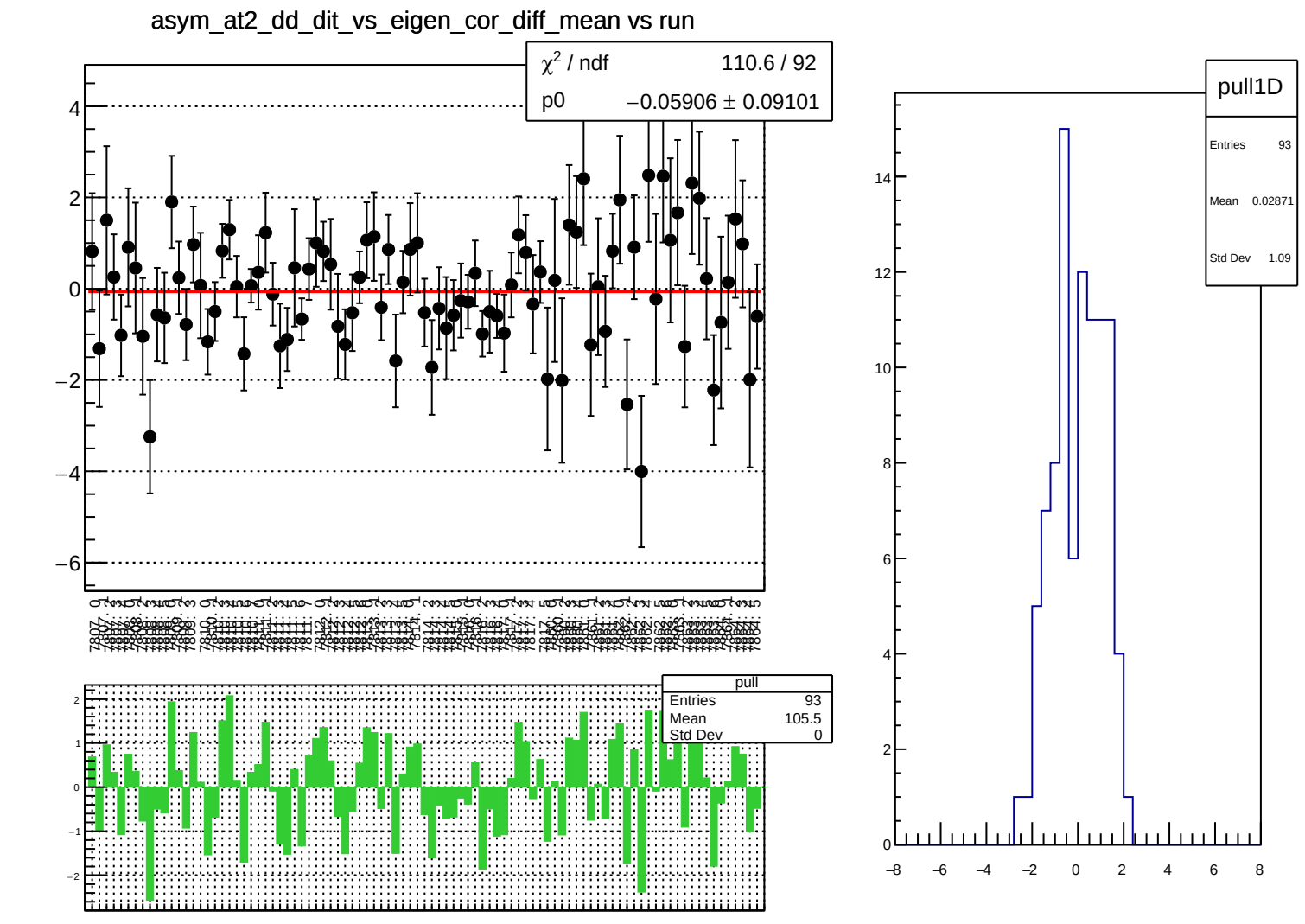

asym_at2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 87.58 / 92
p0 1.189e−12 ± 5.76e−13
pull
Entries 93
Mean 73.84
Std Dev 28.75
pull1D
Entries 93
Mean 0.1209
Std Dev 0.9628

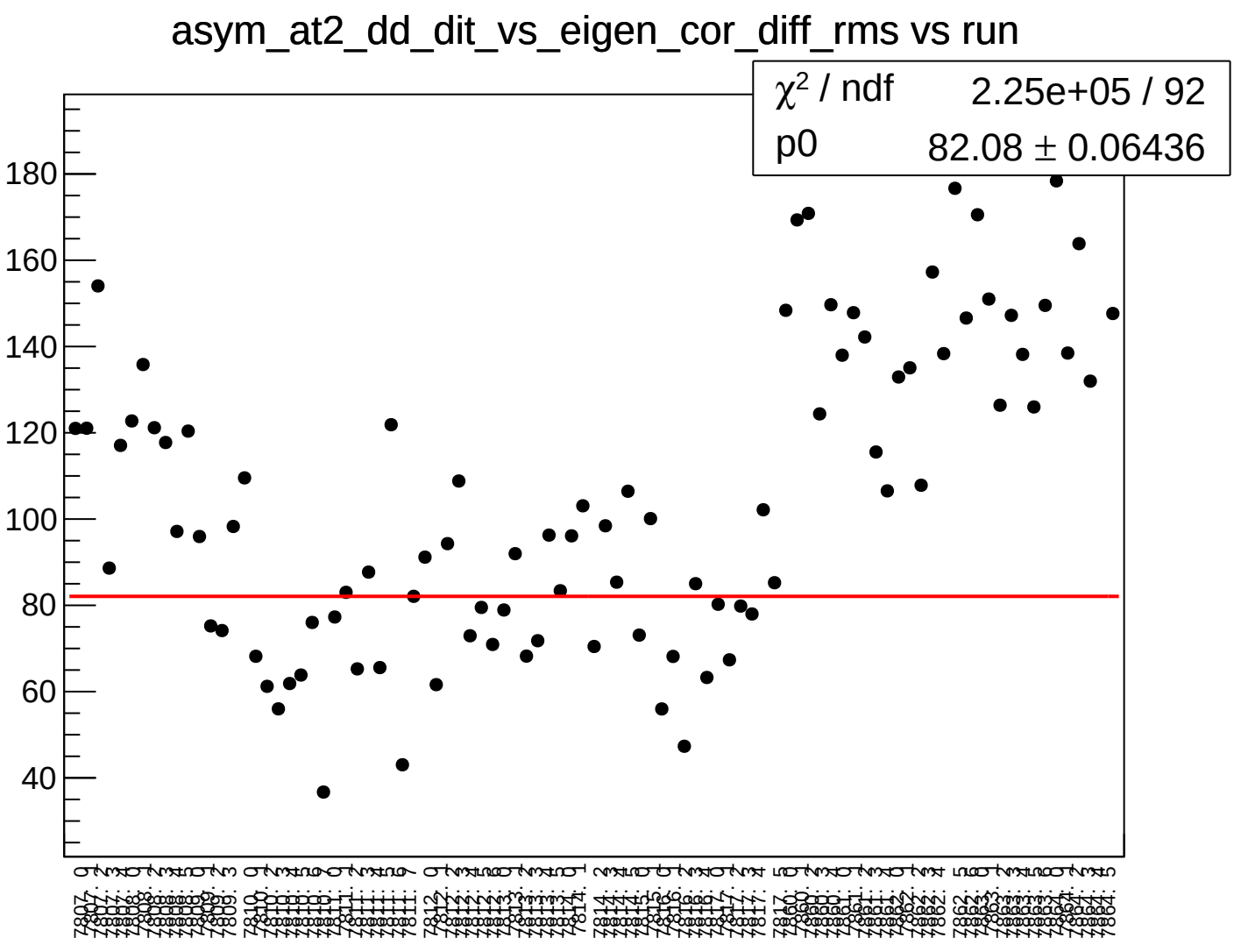

asym_at2_dd_reg_vs_cor_diff_rms vs run
χ^2 / ndf 9.394e+05 / 92
p0 3.89e−10 ± 4.073e−13
1
0.8
0.6
0.4
0.2
0

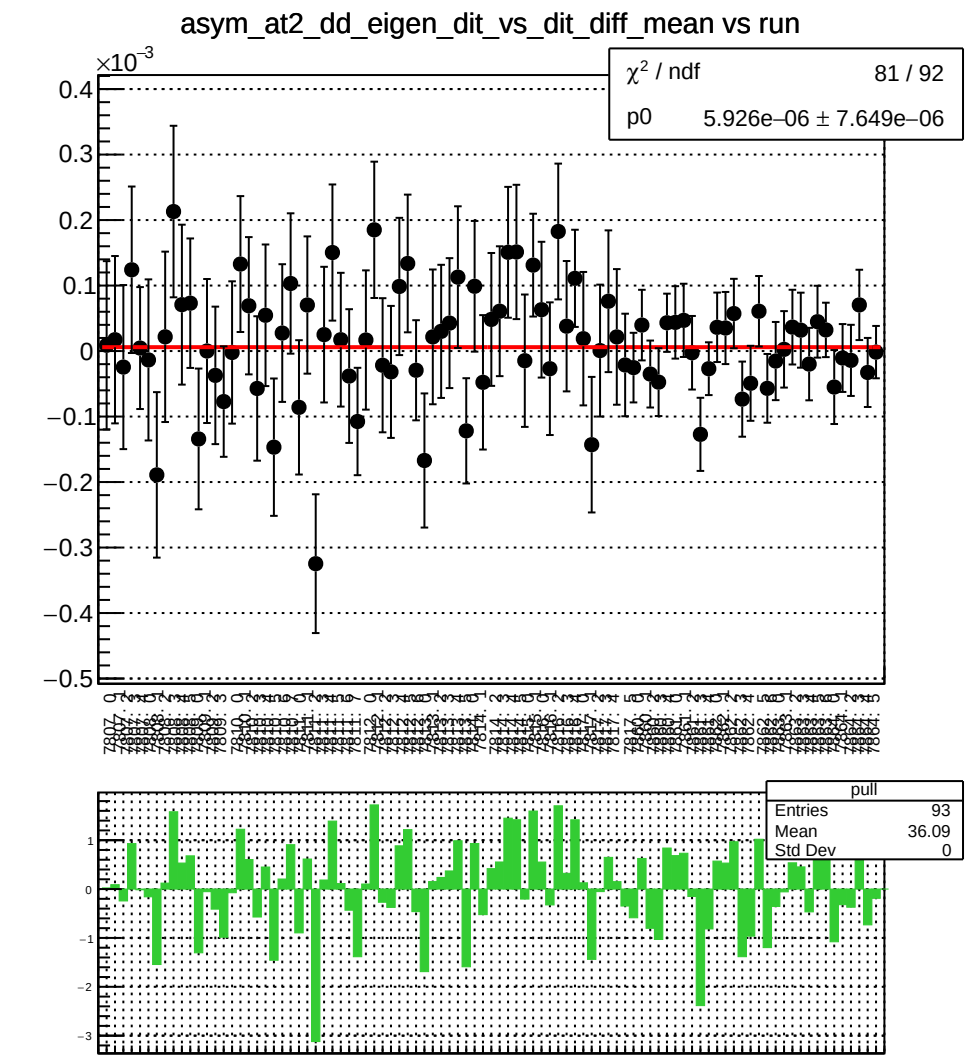

asym_at2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 110.6 / 92
p0 −0.05906 ± 0.09101
pull
Entries 93
Mean 105.5
Std Dev 0

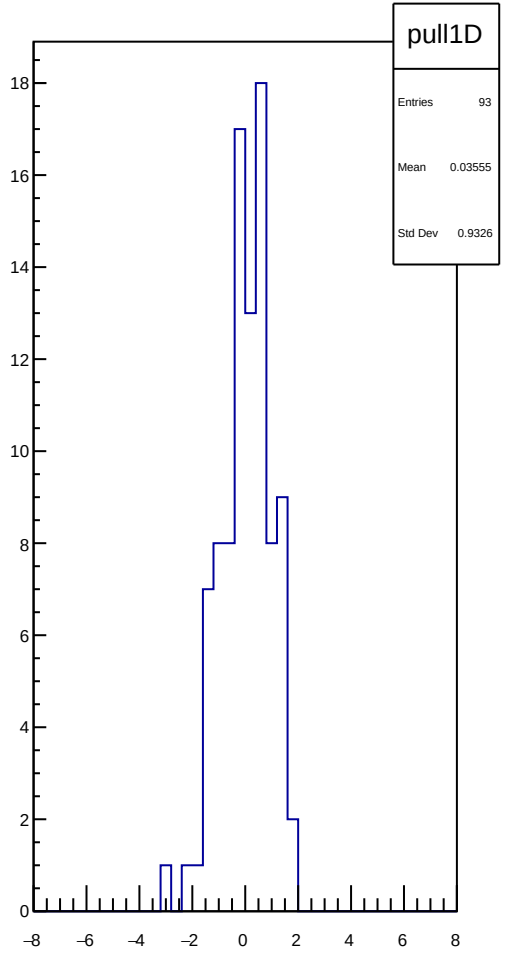

pull1D
Entries 93
Mean 0.02871
Std Dev 1.09

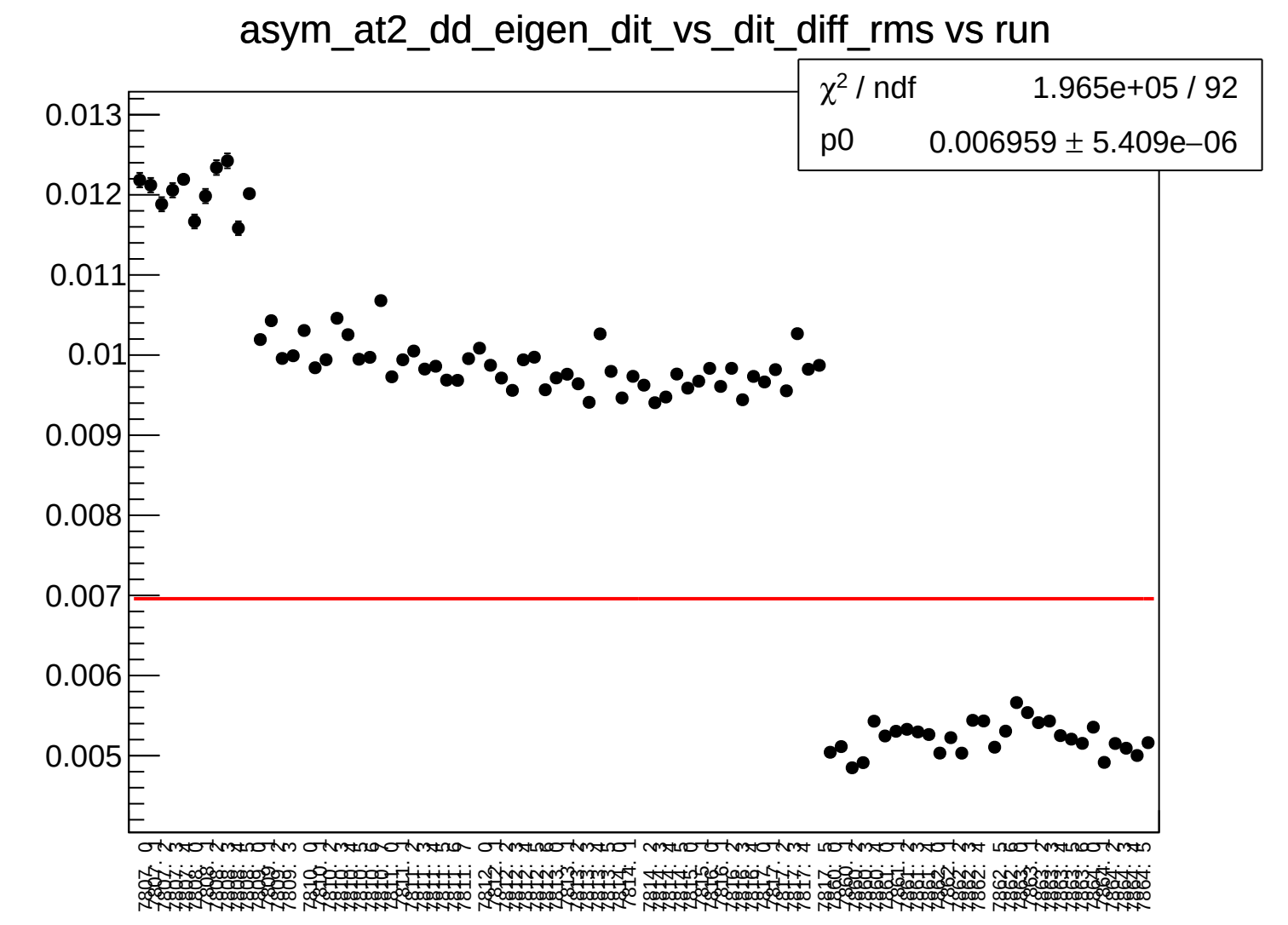

asym_at2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.25e+05 / 92
p0 82.08 ± 0.06436
180
160
140
120
100
80
60
40

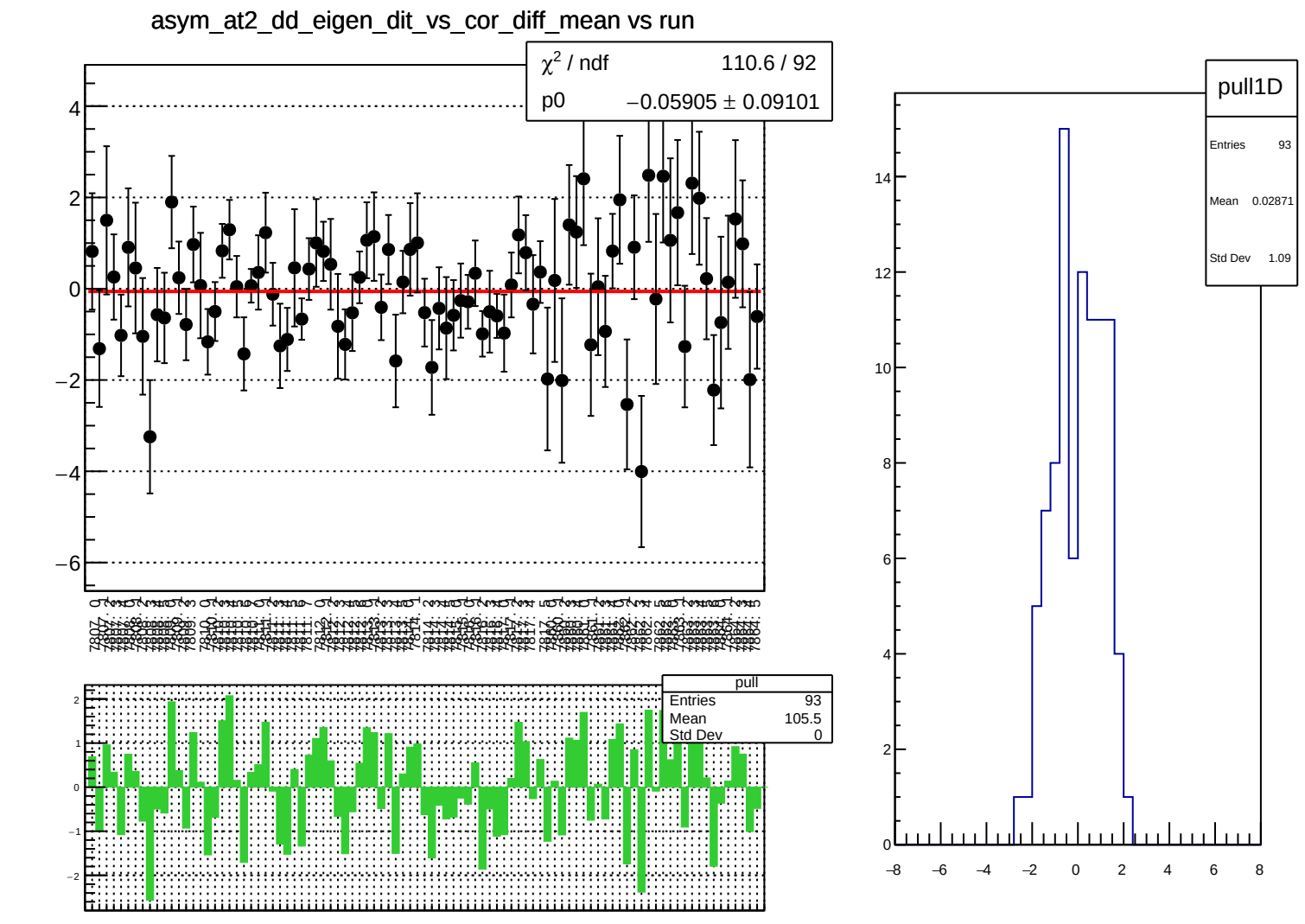

asym_at2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 110.6 / 92
p0 −0.05906 ± 0.09101
pull
Entries 93
Mean 105.5
Std Dev 0
pull1D
Entries 93
Mean 0.02871
Std Dev 1.09

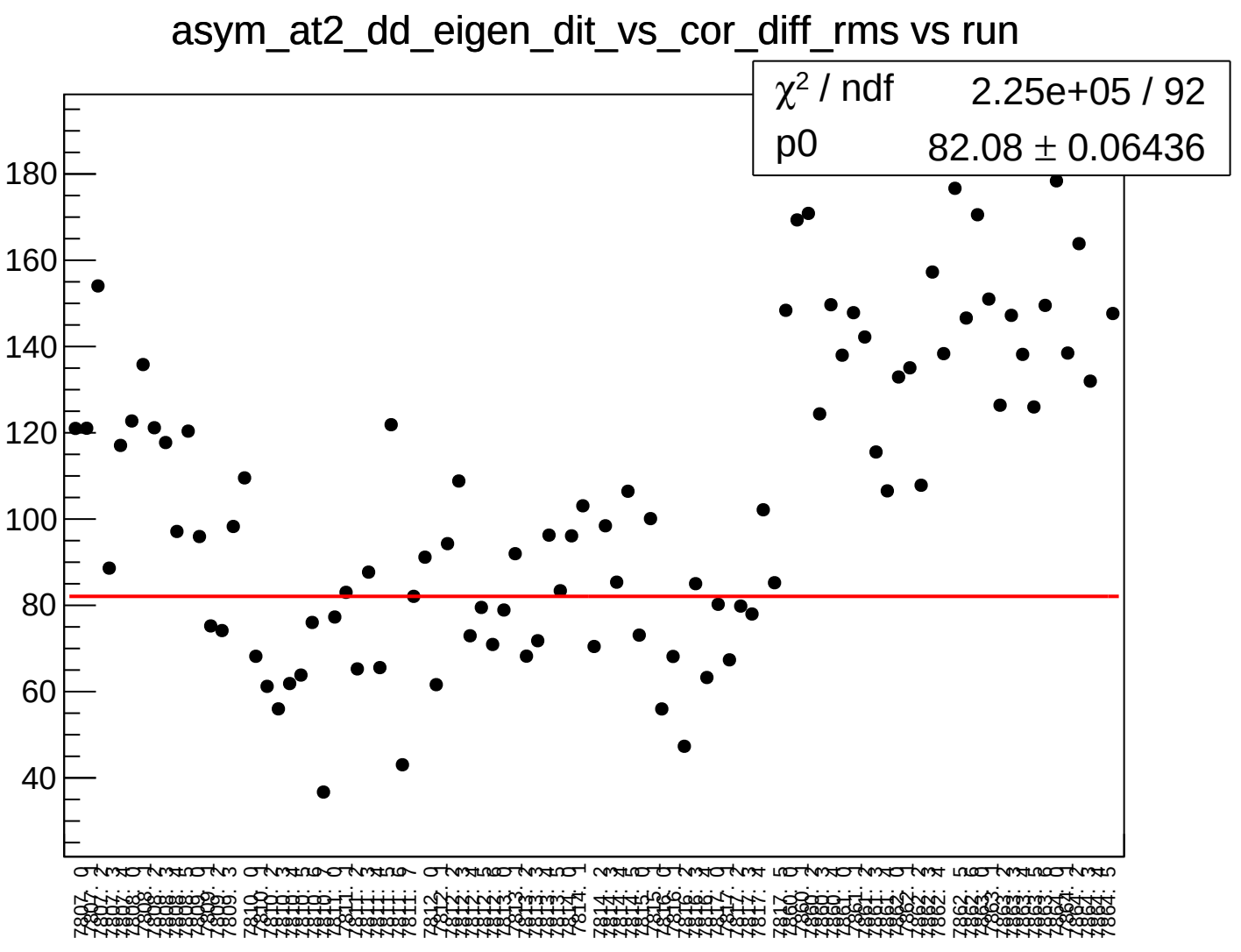

asym_at2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.25e+05 / 92
p0 82.08 ± 0.06436
180
160
140
120
100
80
60
40


asym_at2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 81 / 92
p0 5.926e−06 ± 7.649e−06
pull
Entries 93
Mean 36.09
Std Dev 0

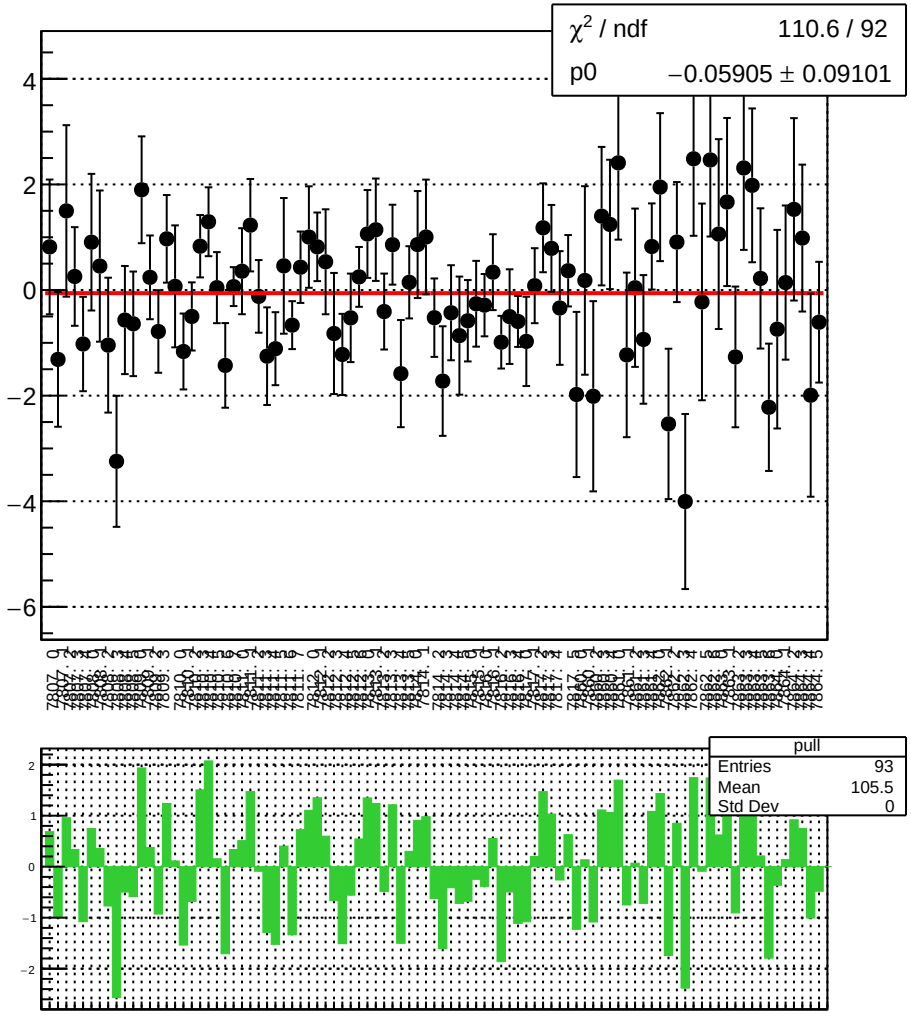

pull1D
Entries 93
Mean 0.03555
Std Dev 0.9326

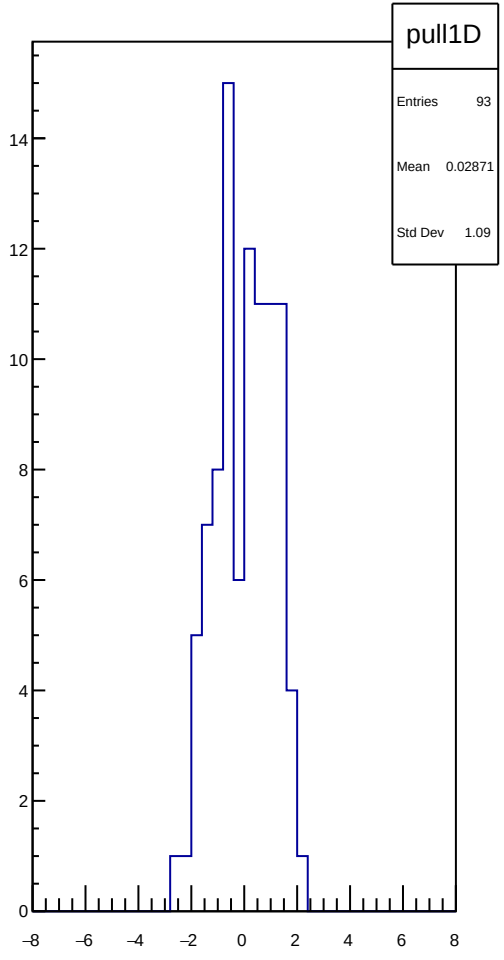

asym_at2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.965e+05 / 92
p0 0.006959 ± 5.409e−06
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005

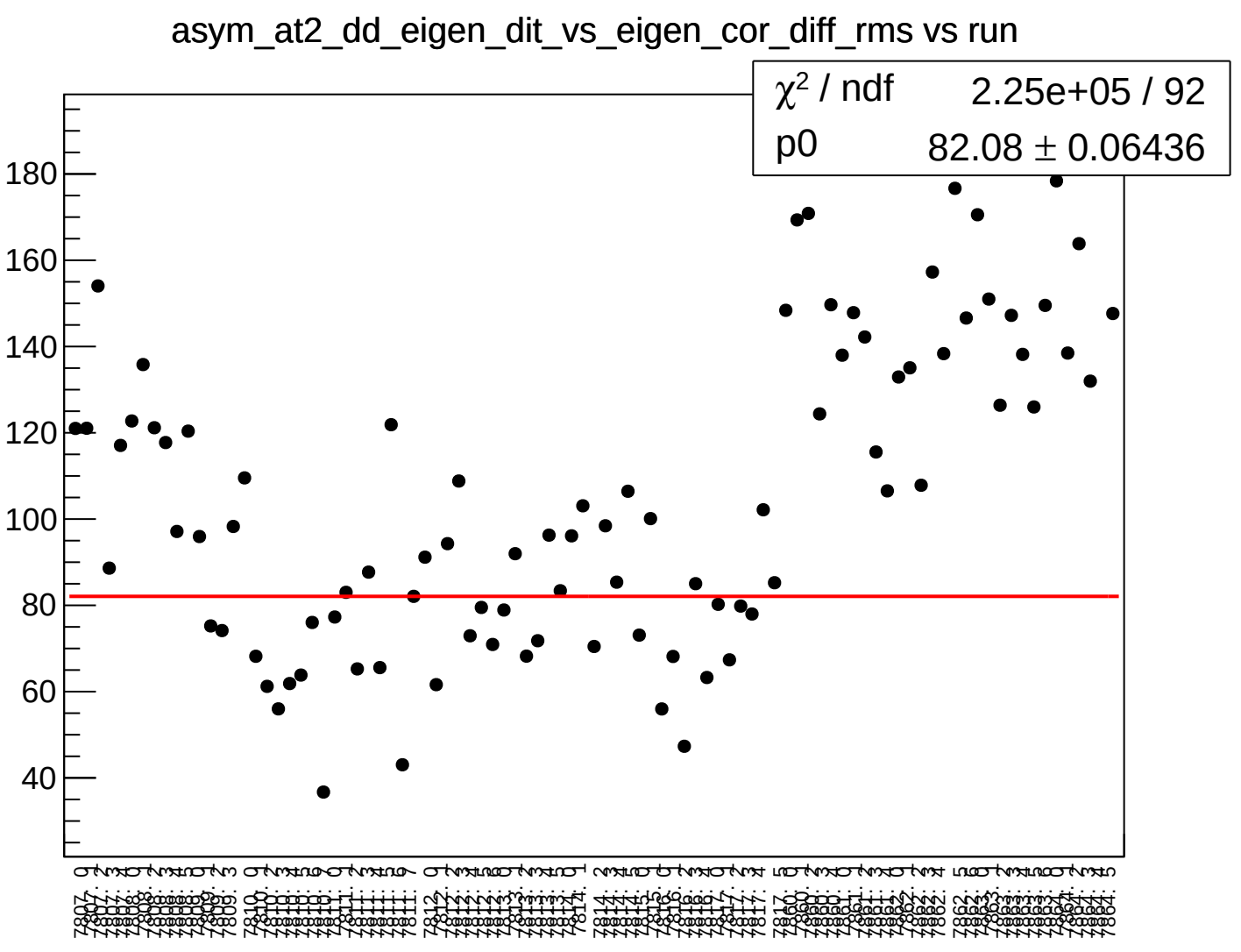

asym_at2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 110.6 / 92
p0 −0.05905 ± 0.09101
pull
Entries 93
Mean 105.5
Std Dev 0
pull1D
Entries 93
Mean 0.02871
Std Dev 1.09

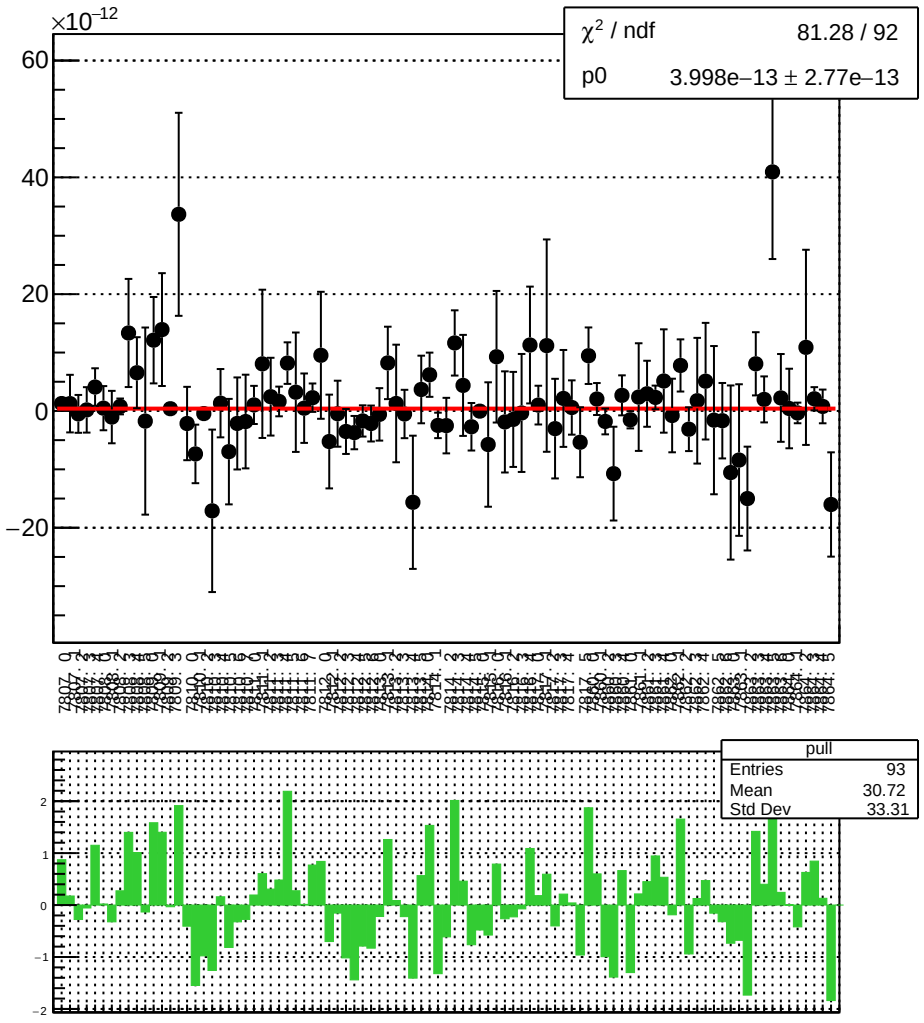

asym_at2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.25e+05 / 92
p0 82.08 ± 0.06436
180
160
140
120
100
80
60
40

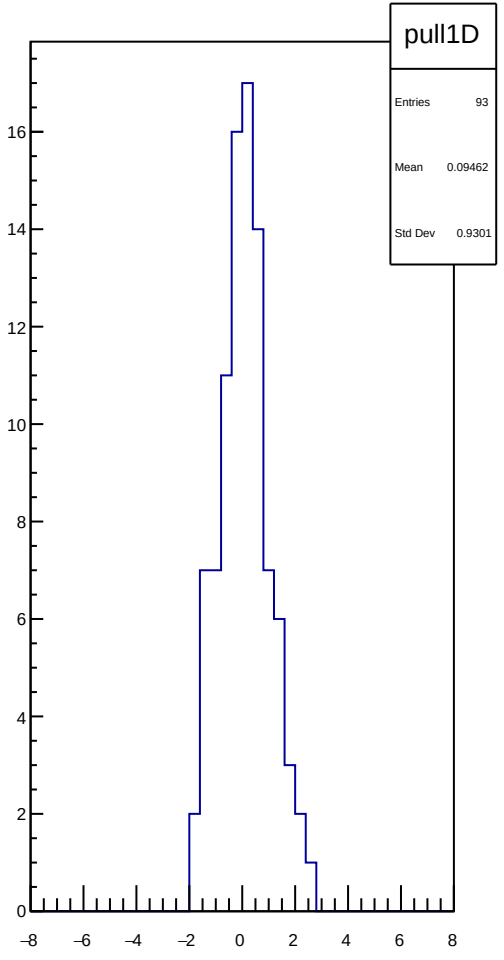
asym_at2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run






asym_at2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.25e+05 / 92
p0 82.08 ± 0.06436
180
160
140
120
100
80
60
40


asym_at2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.28 / 92
p0 3.998e−13 ± 2.77e−13
60
40
20
0
−20
pull
Entries 93
Mean 30.72
Std Dev 33.31
2
1
0
−1
−2


pull1D
Entries 93
Mean 0.09462
Std Dev 0.9301
16
14
12
10
8
6
4
2
0
−8
−6
−4
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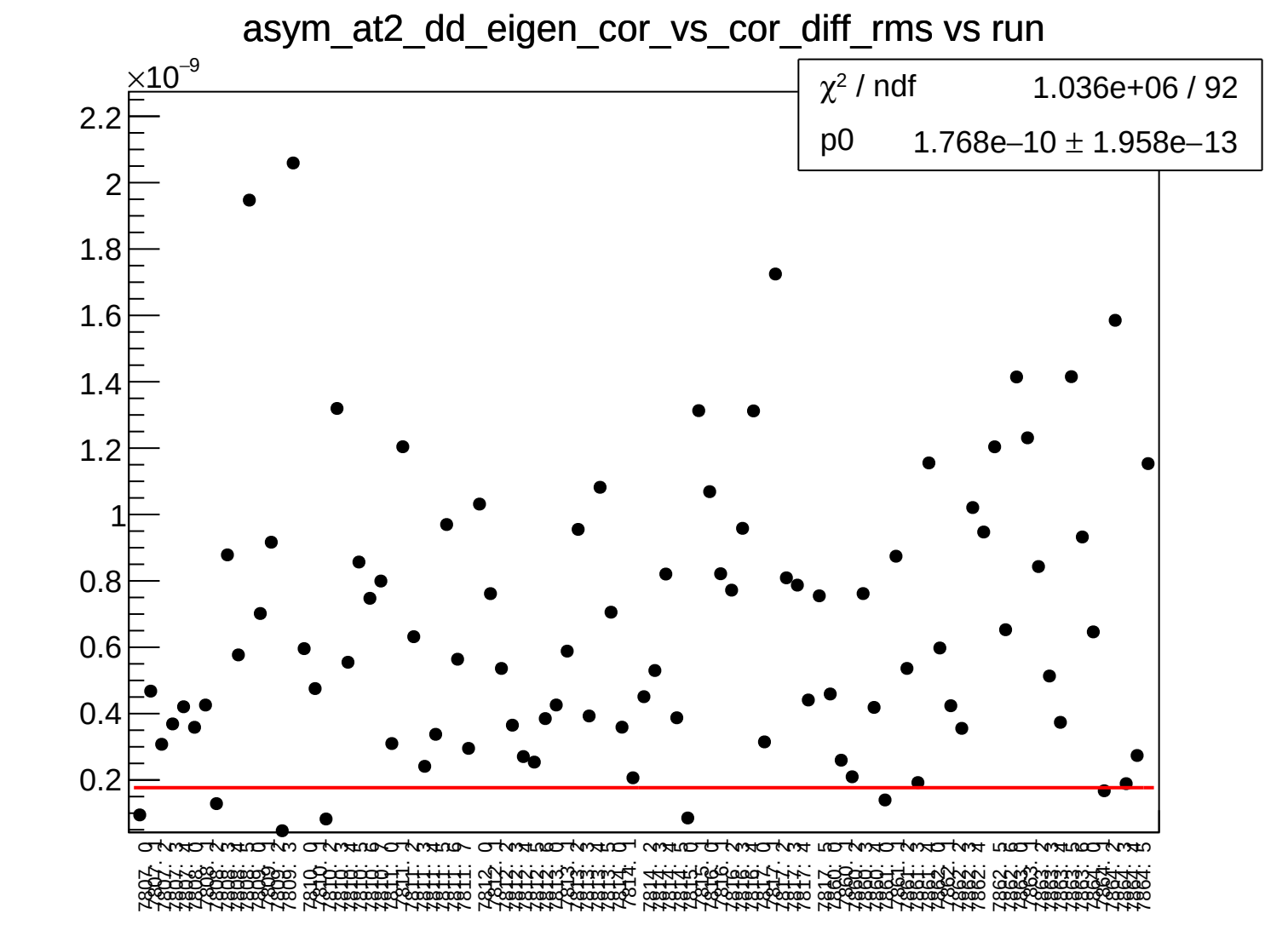
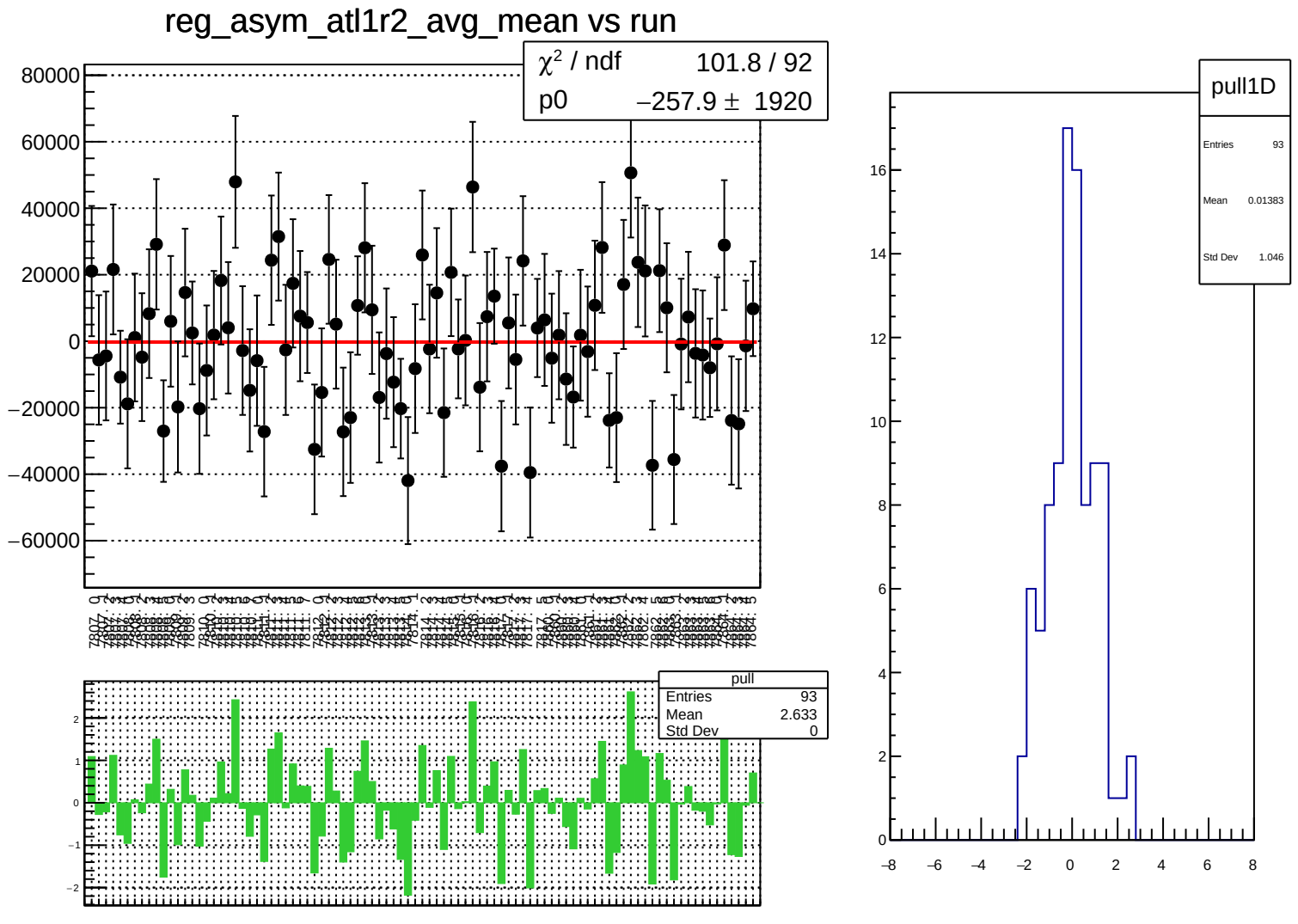
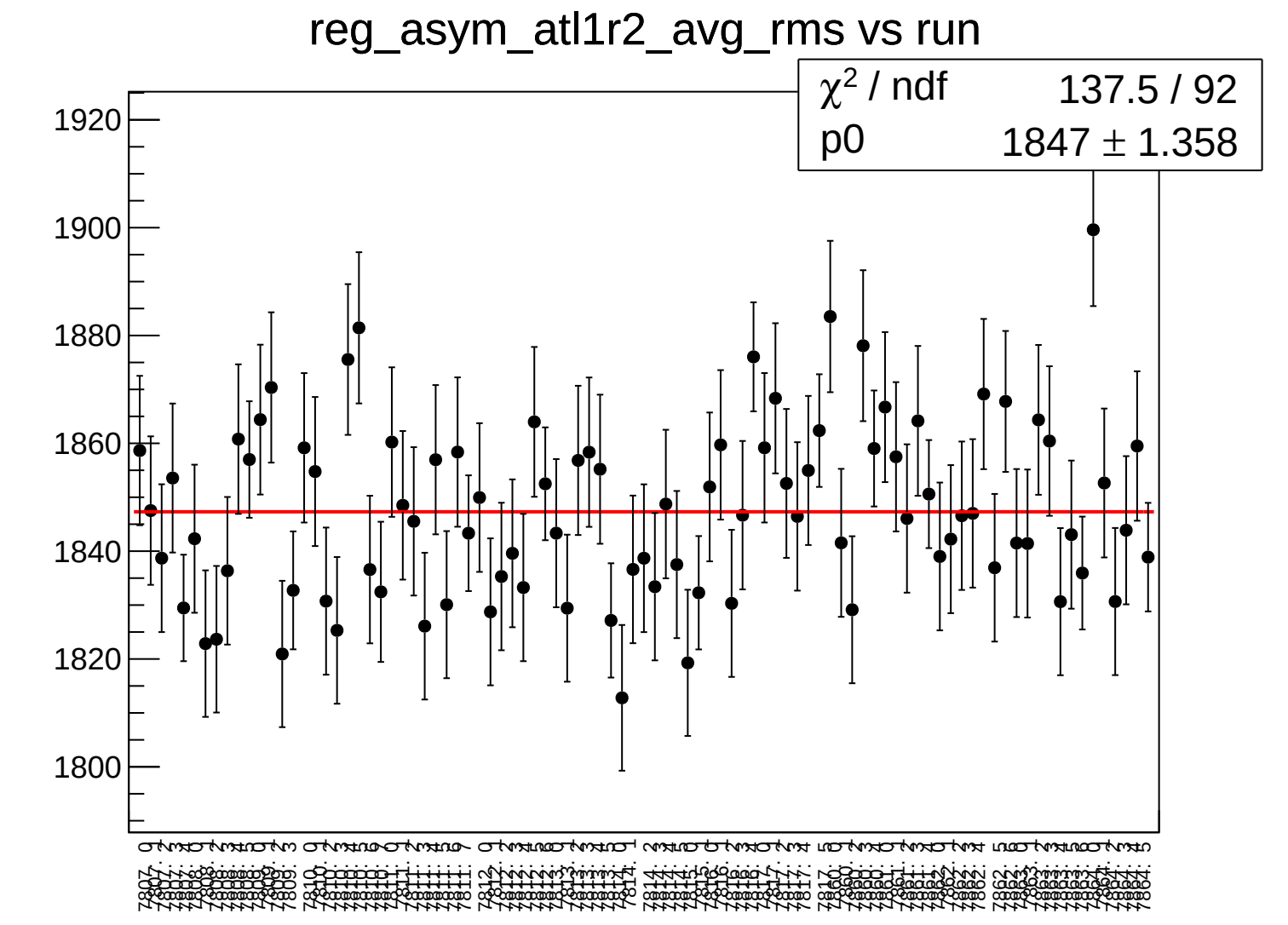
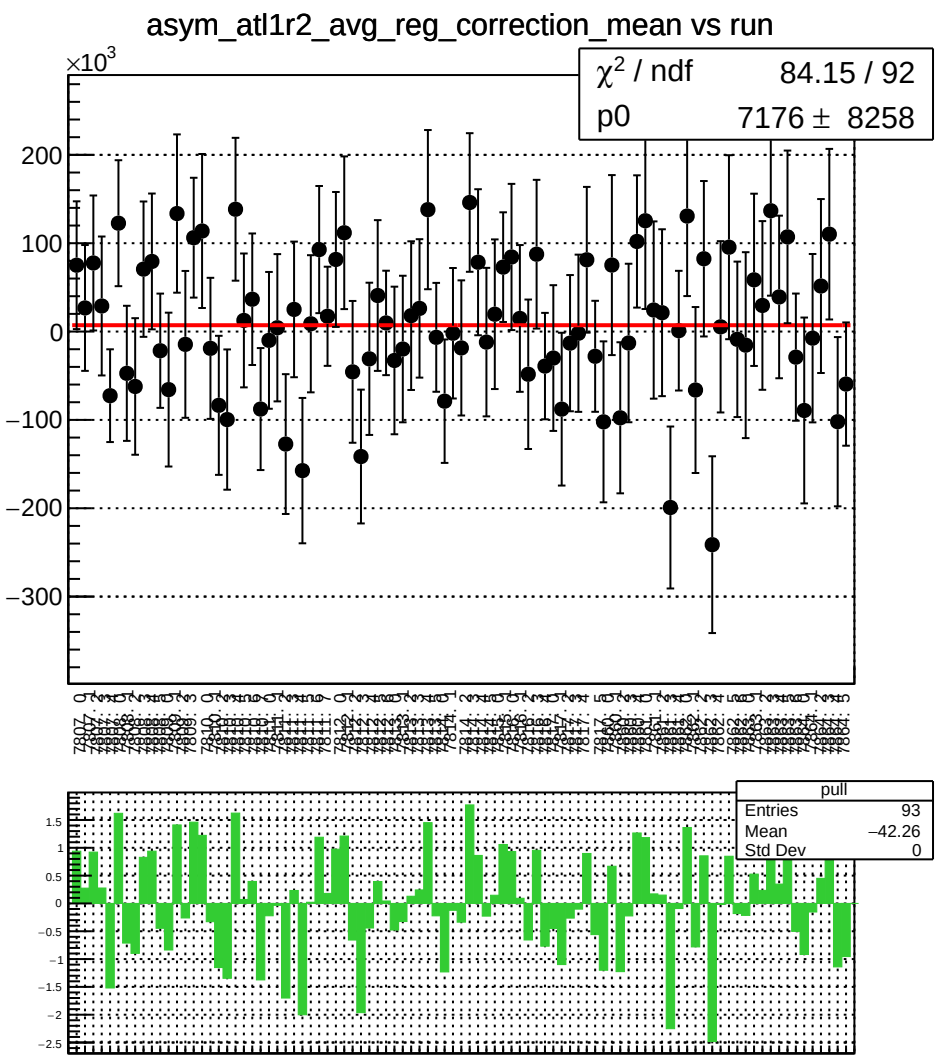
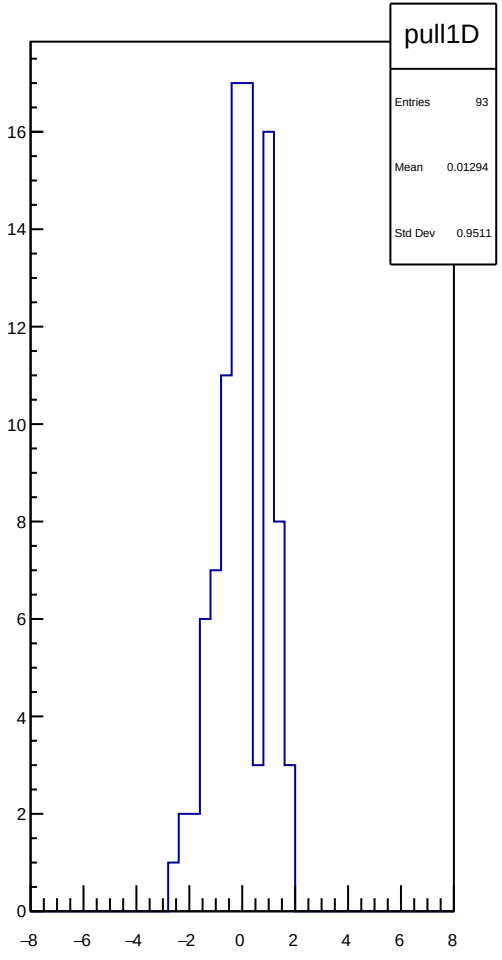
0
2
4
6
8

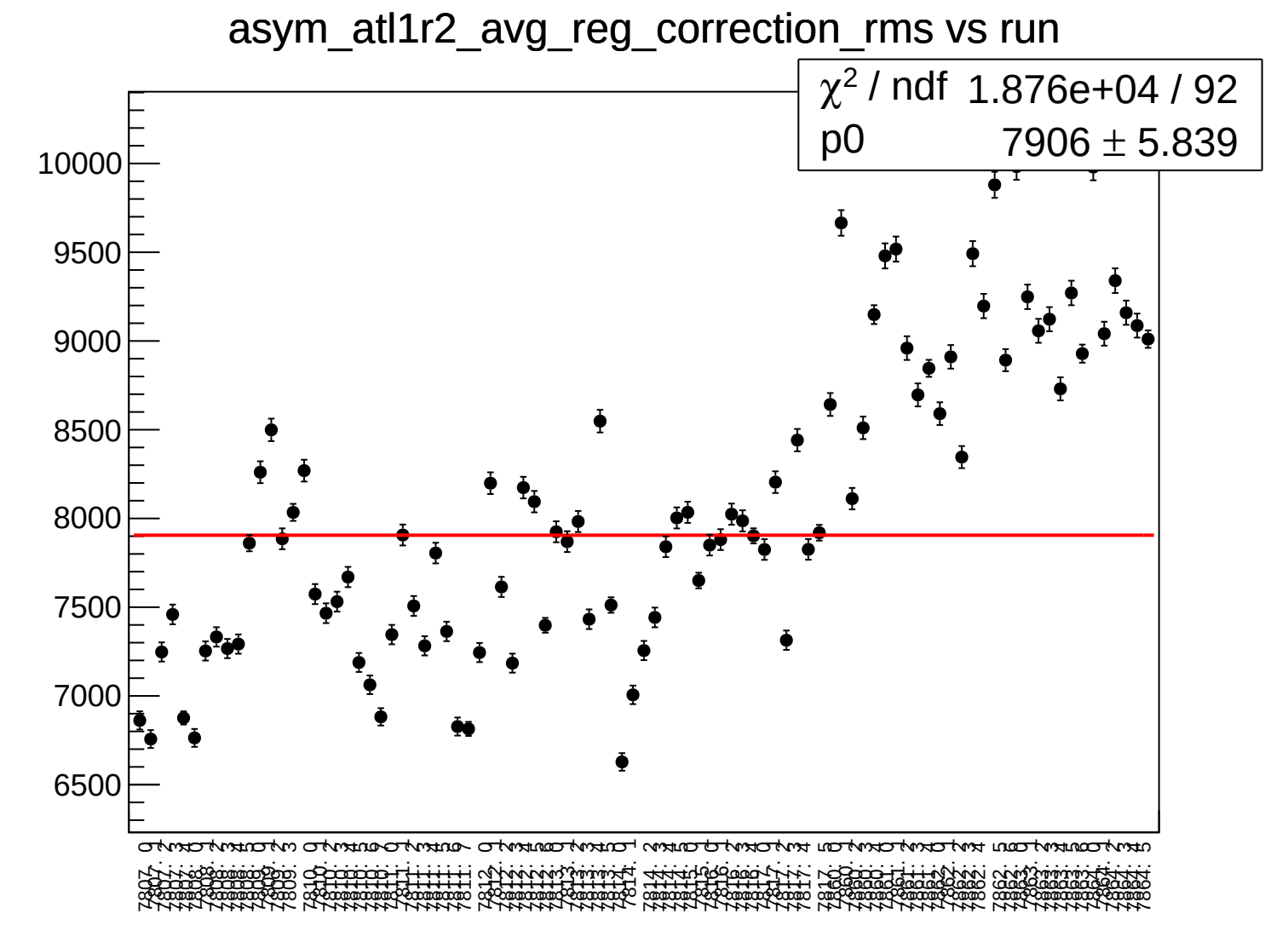

asym_at2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.036e+06 / 92
p0 1.768e−10 ± 1.958e−13
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

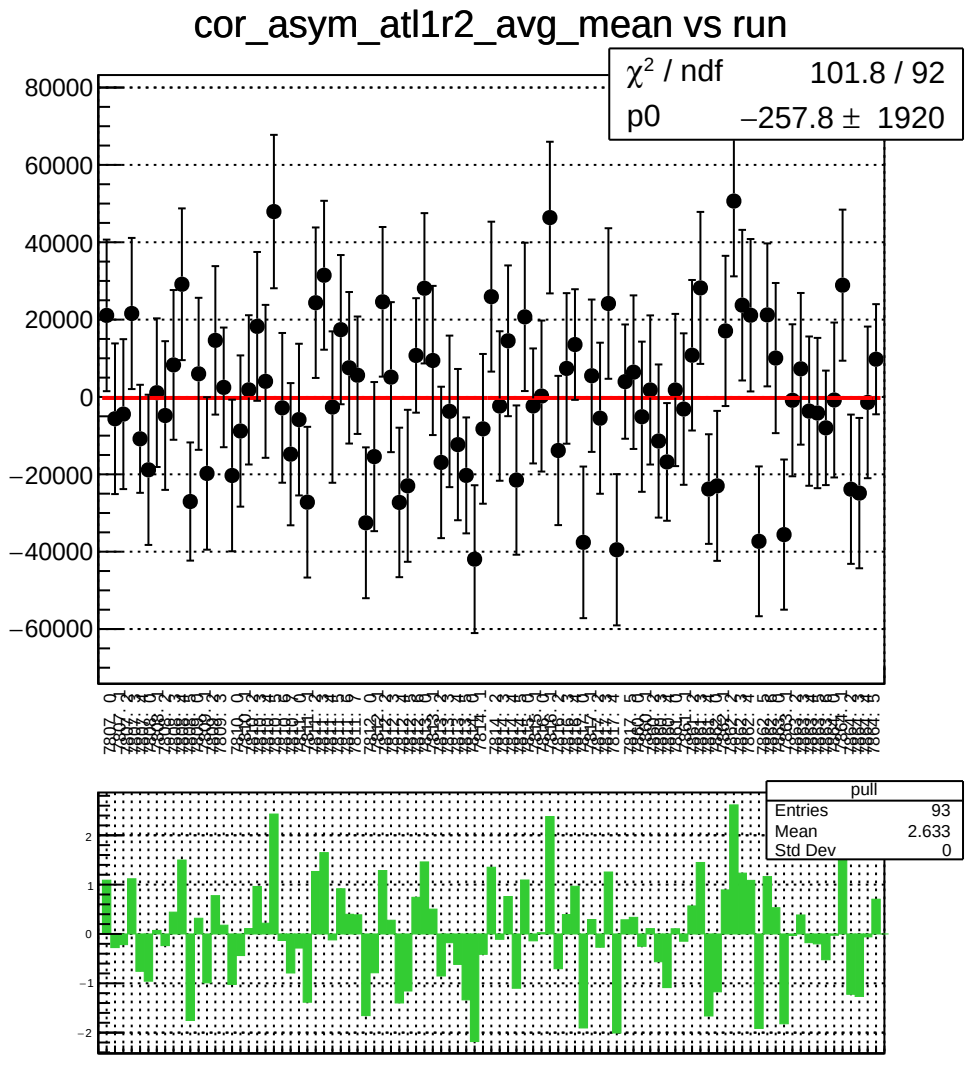

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 101.8 / 92
p0 −257.9 ± 1920
pull
Entries 93
Mean 2.633
Std Dev 0
pull1D
Entries 93
Mean 0.01383
Std Dev 1.046

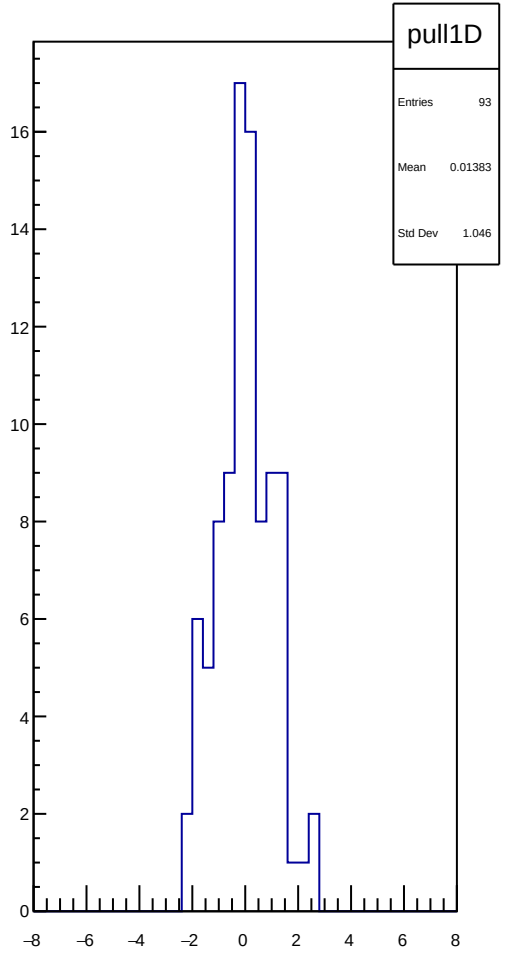

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 137.5 / 92
p0 1847 ± 1.358
1920
1900
1880
1860
1840
1820
1800

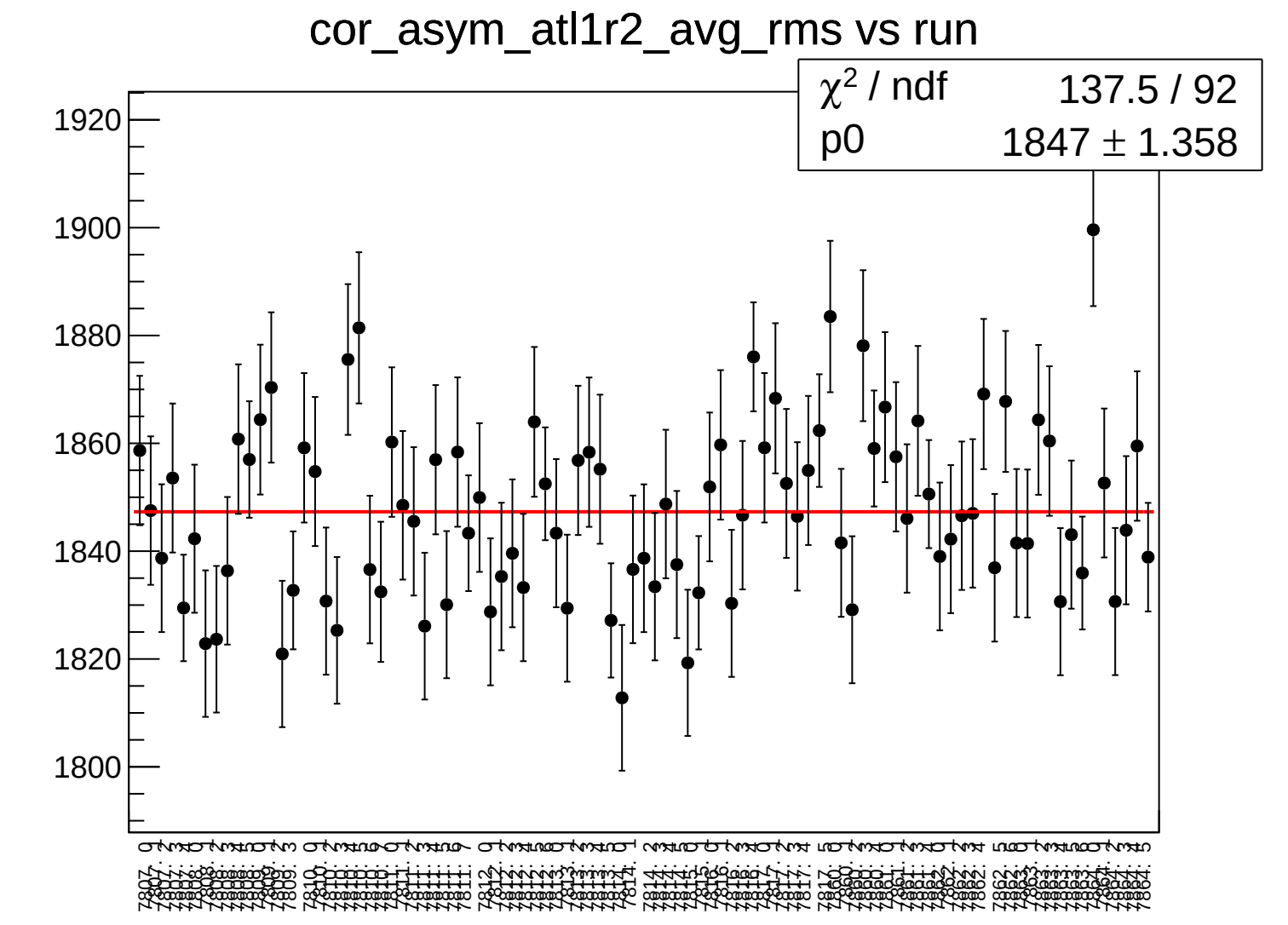

asym_atl1r2_avg_reg_correction_mean vs run
χ² / ndf 84.15 / 92
p0 7176 ± 8258
×10³
pull
Entries 93
Mean −42.26
Std Dev 0

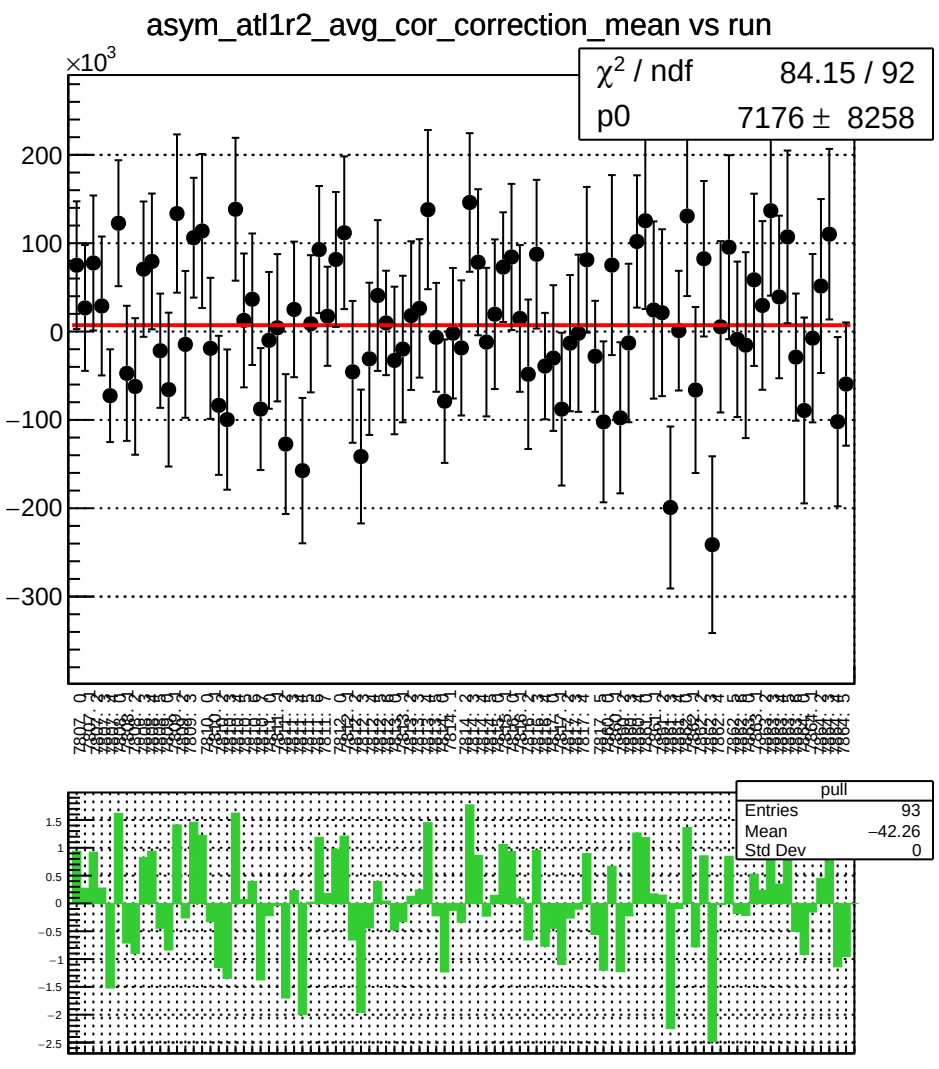

pull1D
Entries 93
Mean 0.01294
Std Dev 0.9511

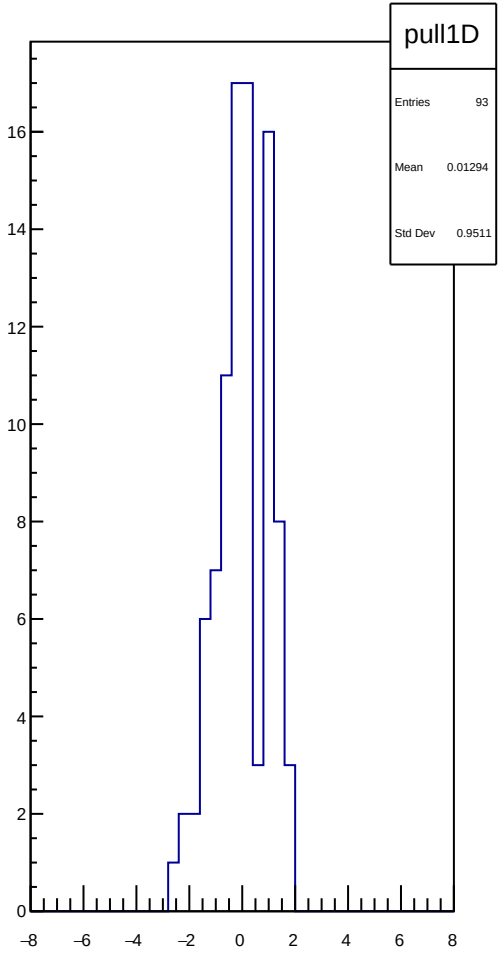

asym_atl1r2_avg_reg_correction_rms vs run
χ² / ndf 1.876e+04 / 92
p0 7906 ± 5.839
10000
9500
9000
8500
8000
7500
7000
6500

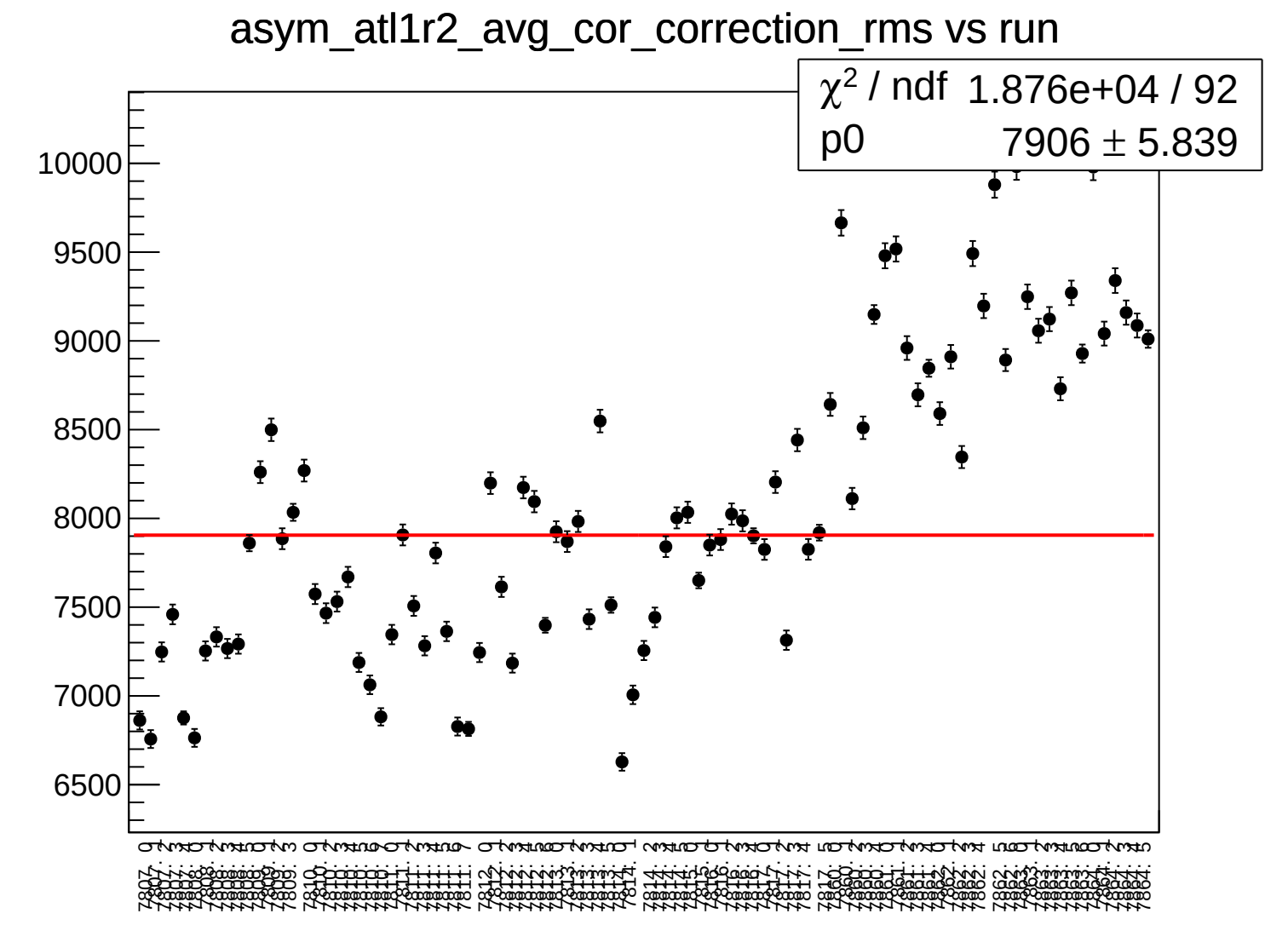

cor_asym_atl1r2_avg_mean vs run
χ² / ndf 101.8 / 92
p0 −257.8 ± 1920
pull
Entries 93
Mean 2.633
Std Dev 0

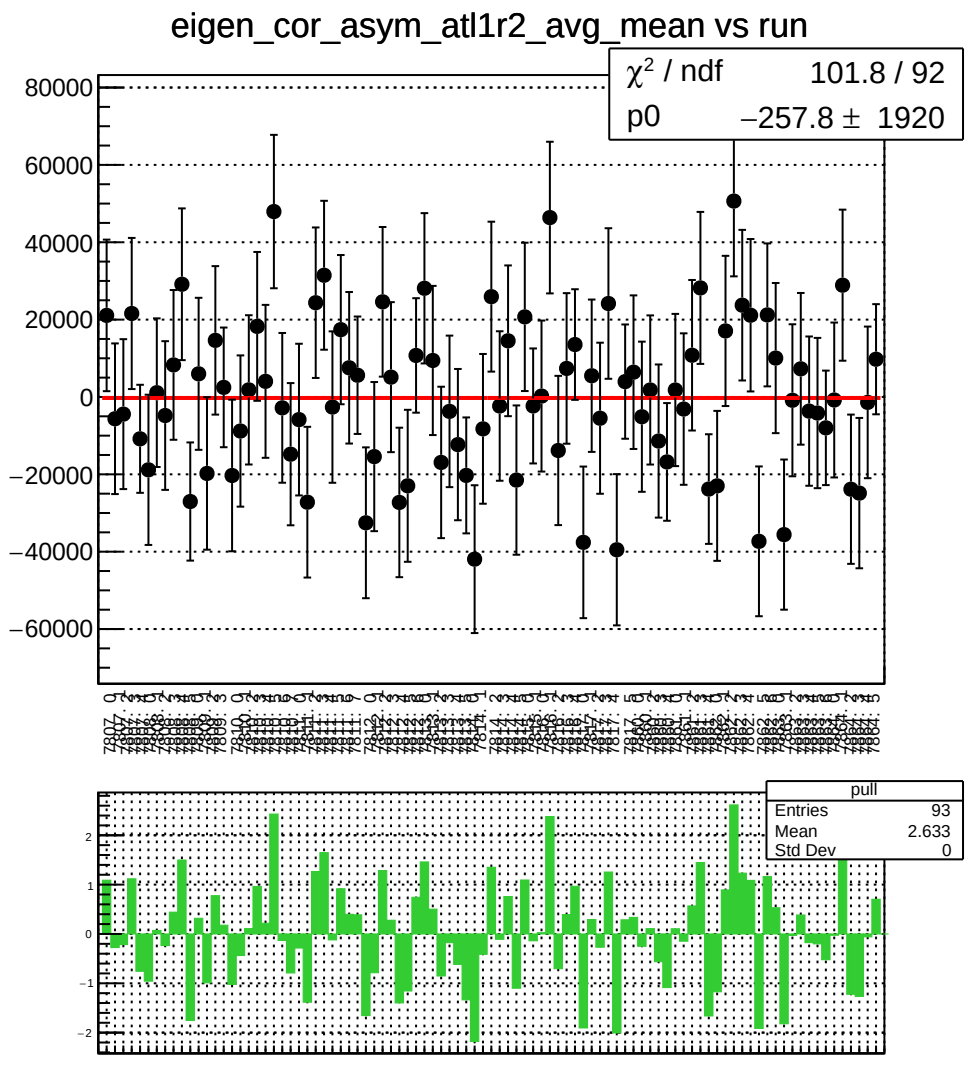

pull1D
Entries 93
Mean 0.01383
Std Dev 1.046

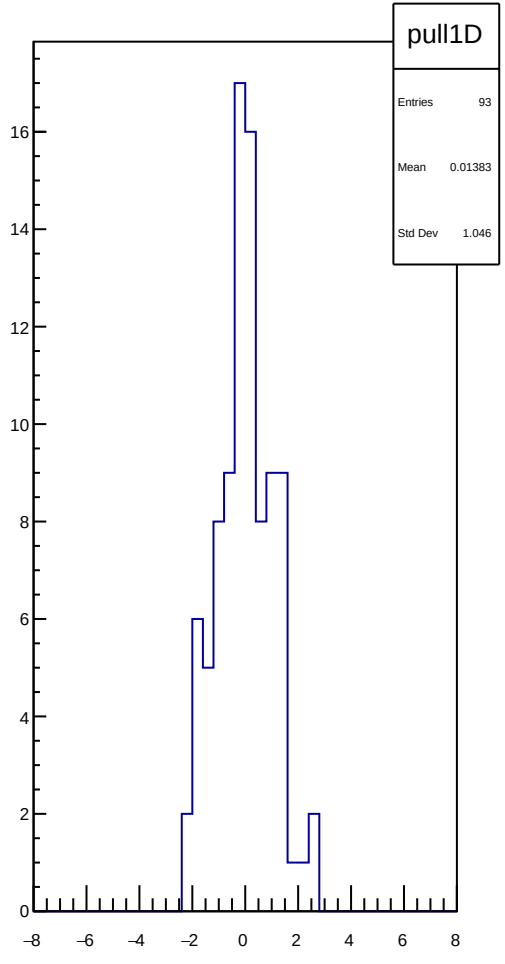

cor_asym_atl1r2_avg_rms vs run
χ² / ndf 137.5 / 92
p0 1847 ± 1.358
1920
1900
1880
1860
1840
1820
1800

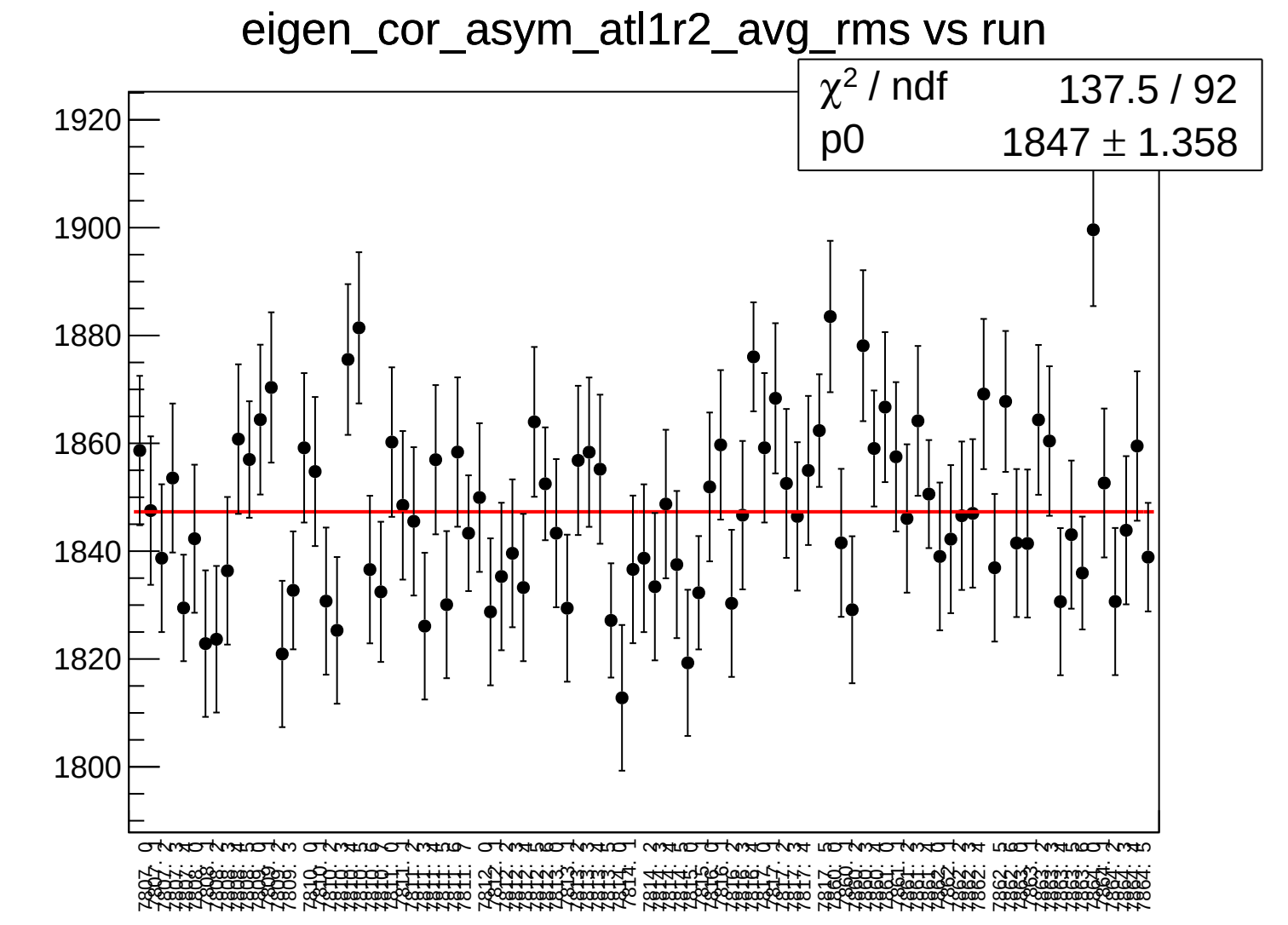

asym_atl1r2_avg_cor_correction_mean vs run
χ² / ndf 84.15 / 92
p0 7176 ± 8258
×10³
pull
Entries 93
Mean −42.26
Std Dev 0

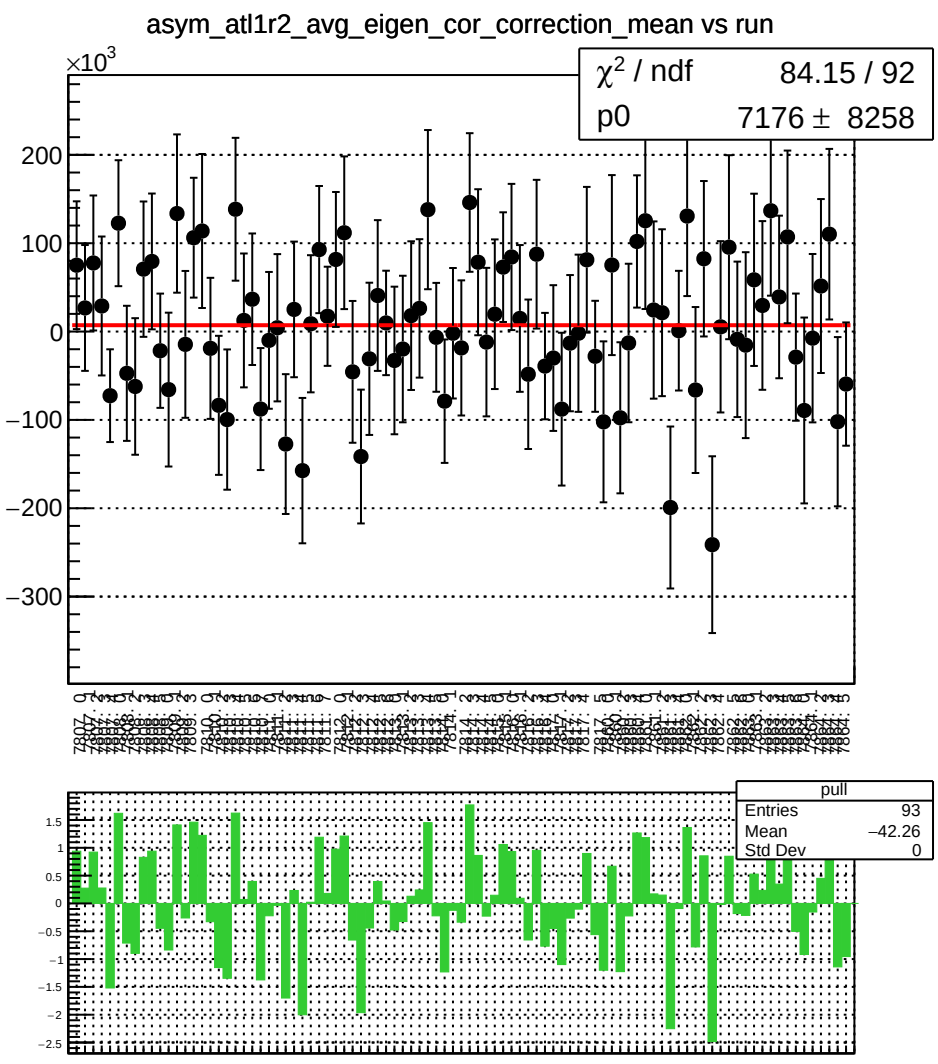

pull1D
Entries 93
Mean 0.01294
Std Dev 0.9511

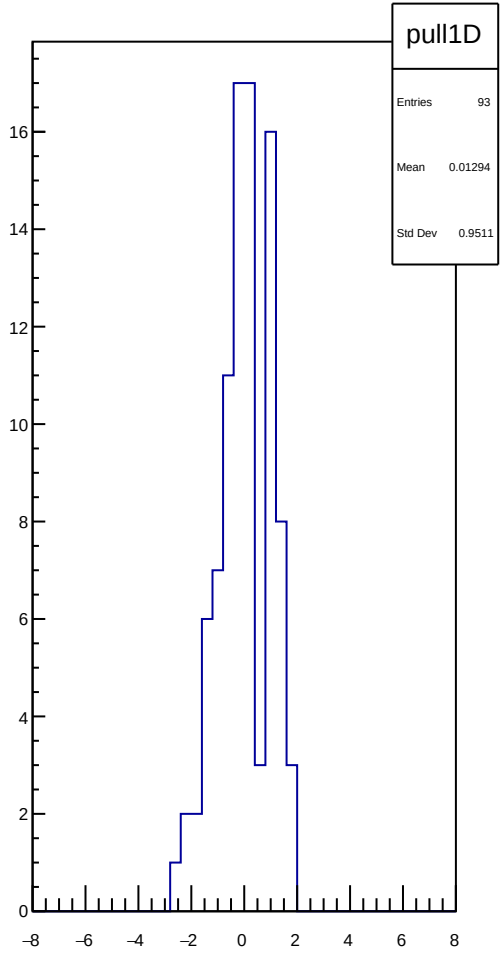

asym_atl1r2_avg_cor_correction_rms vs run
χ² / ndf 1.876e+04 / 92
p0 7906 ± 5.839
10000
9500
9000
8500
8000
7500
7000
6500

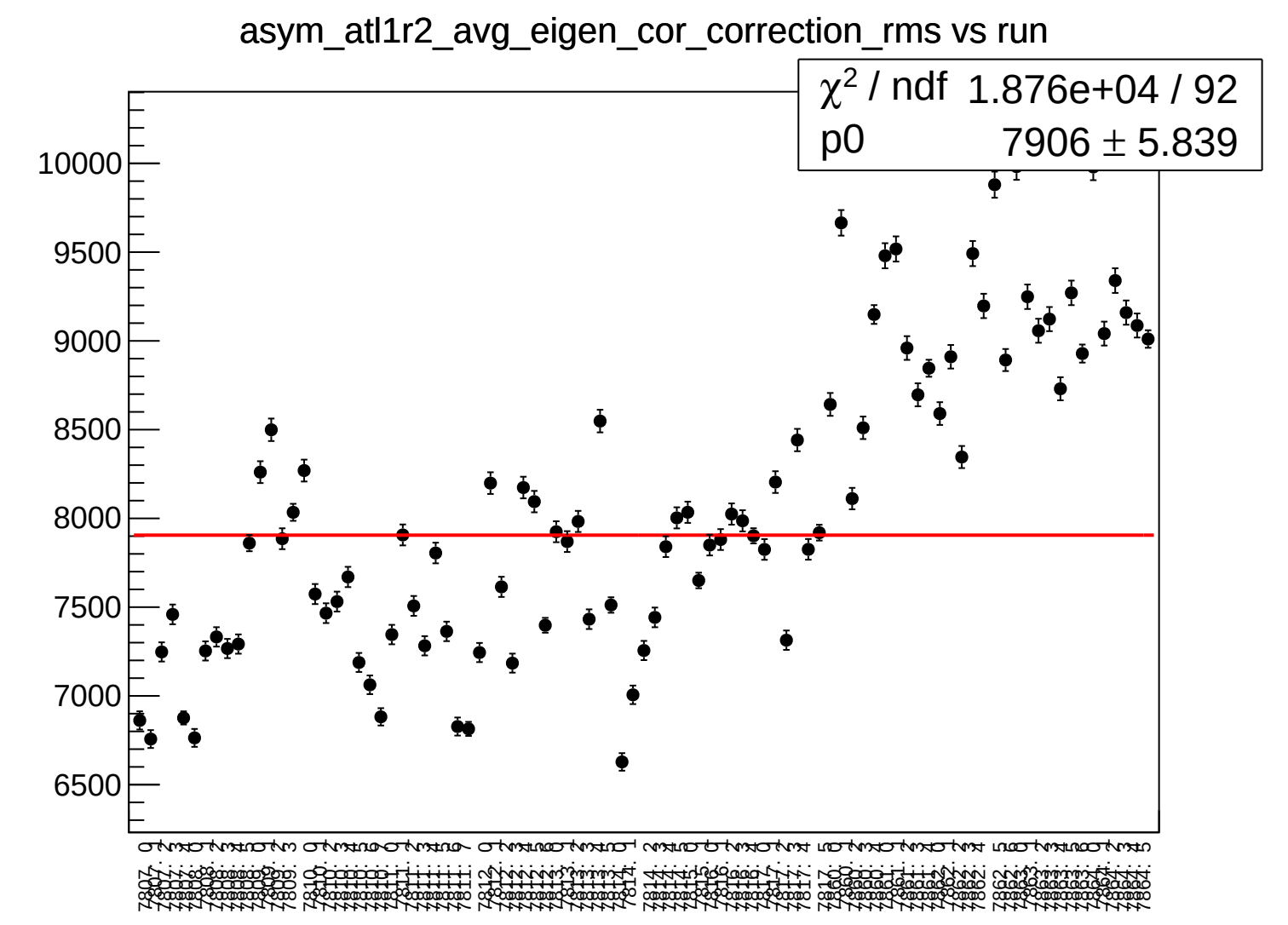

eigen_cor_asym_atl1r2_avg_mean vs run
χ² / ndf 101.8 / 92
p0 −257.8 ± 1920
pull
Entries 93
Mean 2.633
Std Dev 0

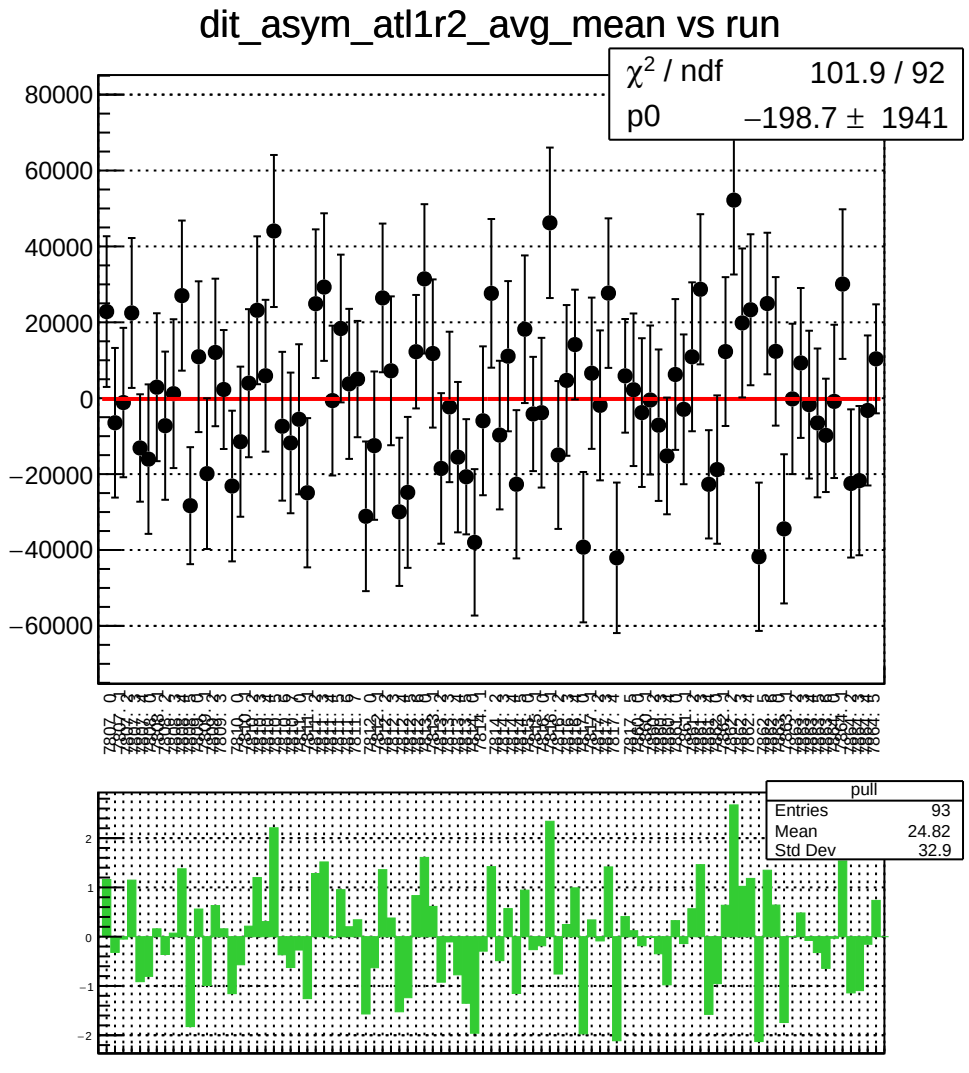

pull1D
Entries 93
Mean 0.01383
Std Dev 1.046

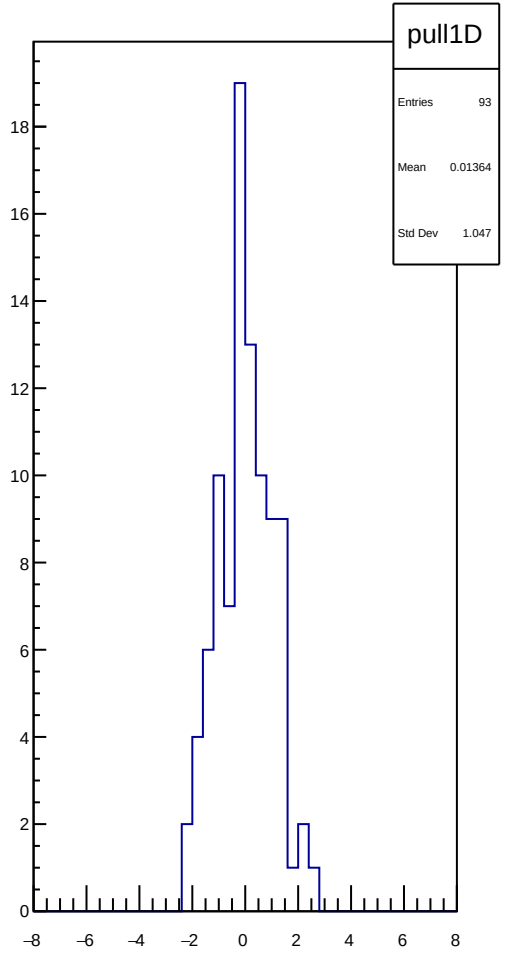

eigen_cor_asym_atl1r2_avg_rms vs run
χ² / ndf 137.5 / 92
p0 1847 ± 1.358
1920
1900
1880
1860
1840
1820
1800

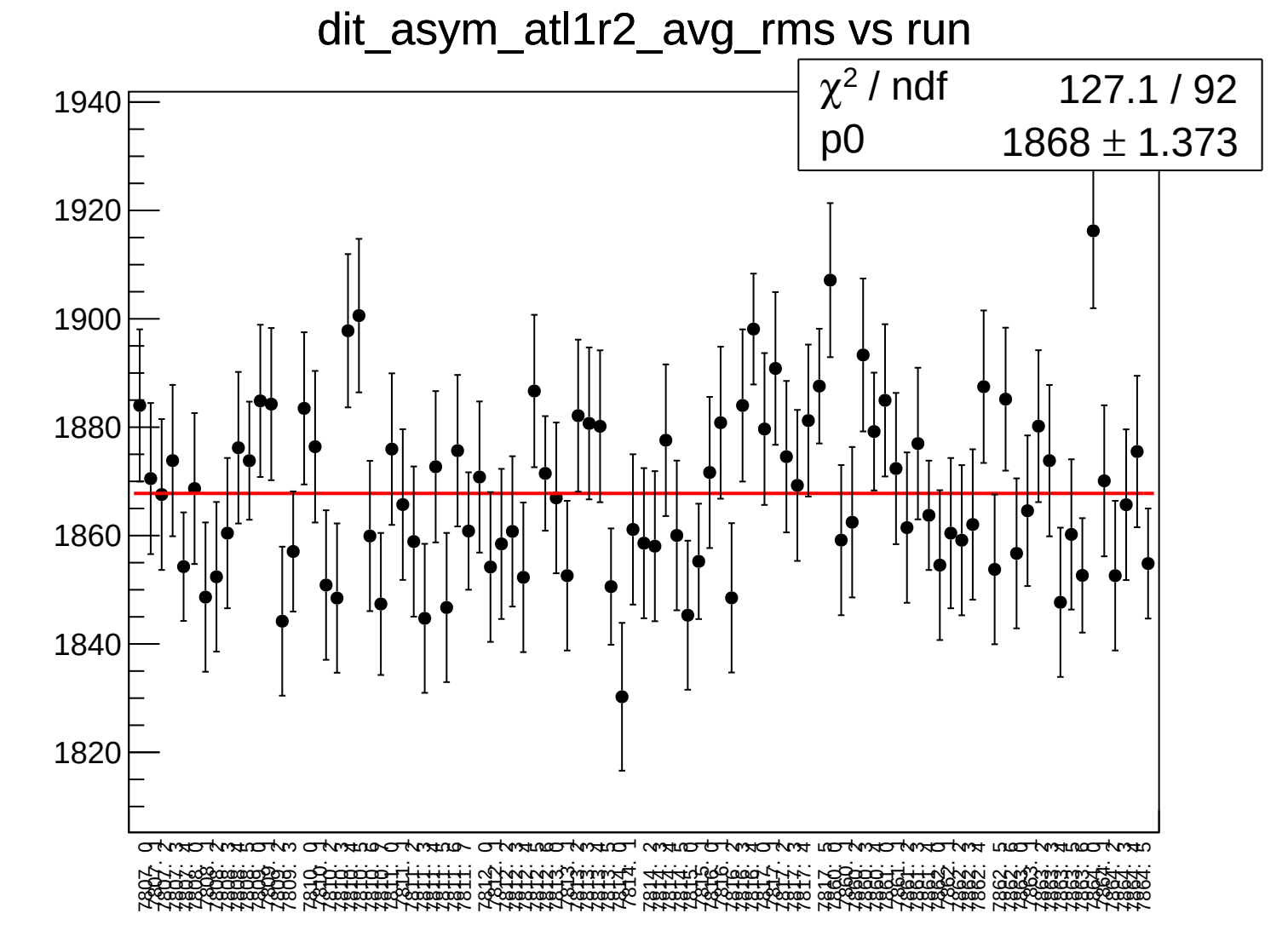

asym_atl1r2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 84.15 / 92
p0 7176 ± 8258
200
100
0
−100
−200
−300
pull
Entries 93
Mean −42.26
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

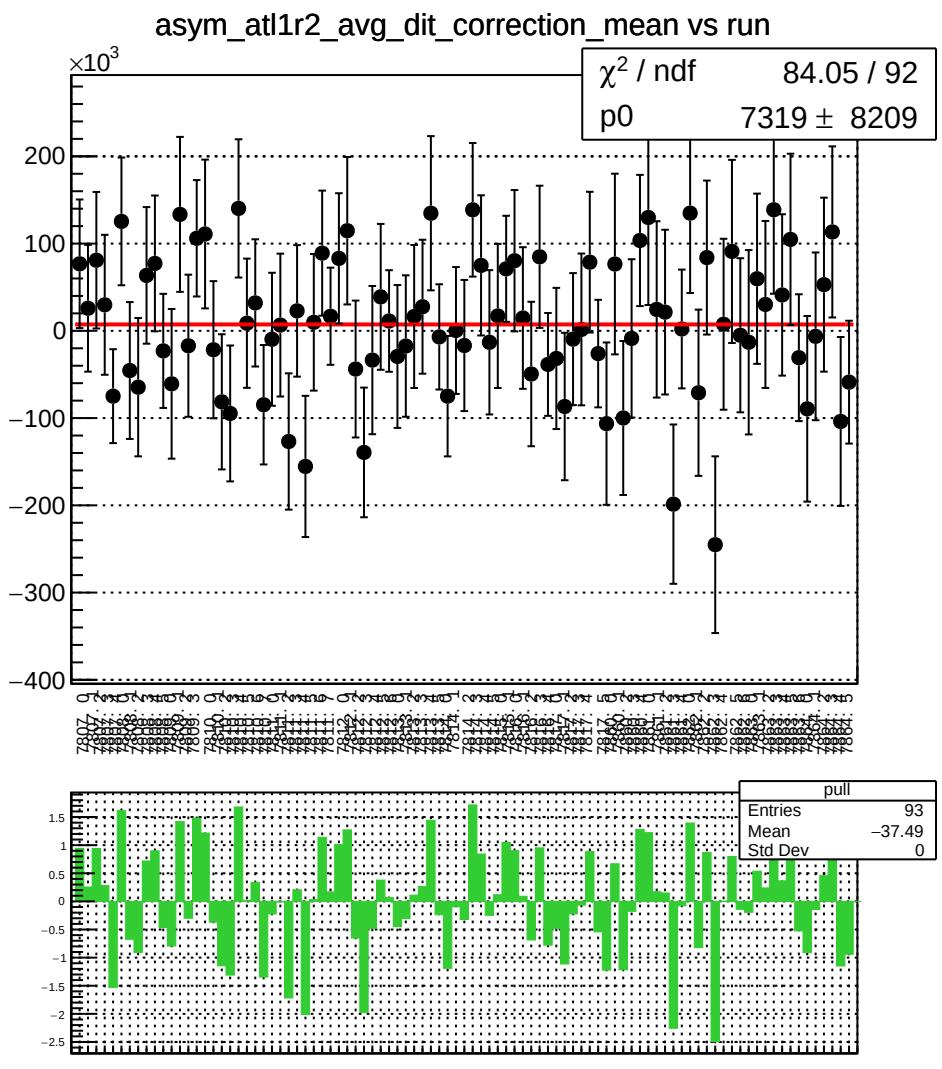

pull1D
Entries 93
Mean 0.01294
Std Dev 0.9511
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

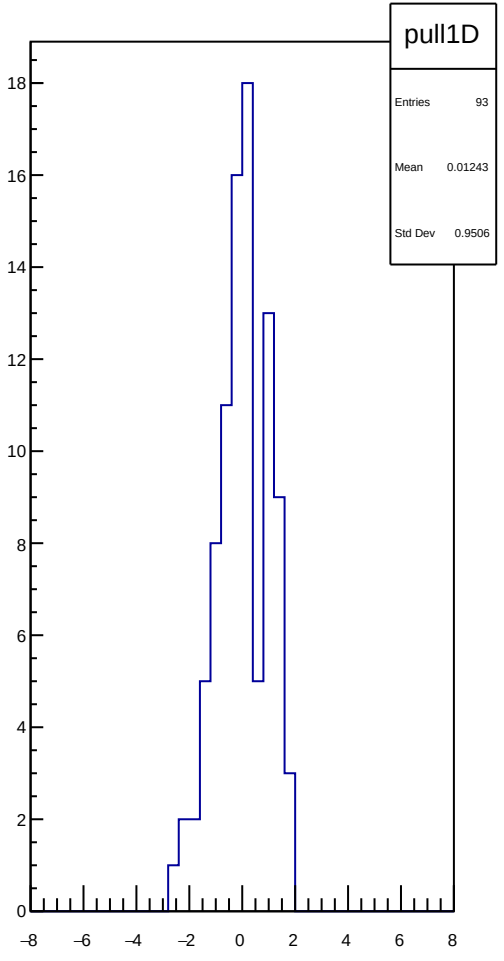

asym_atl1r2_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.876e+04 / 92
p0 7906 ± 5.839
10000
9500
9000
8500
8000
7500
7000
6500

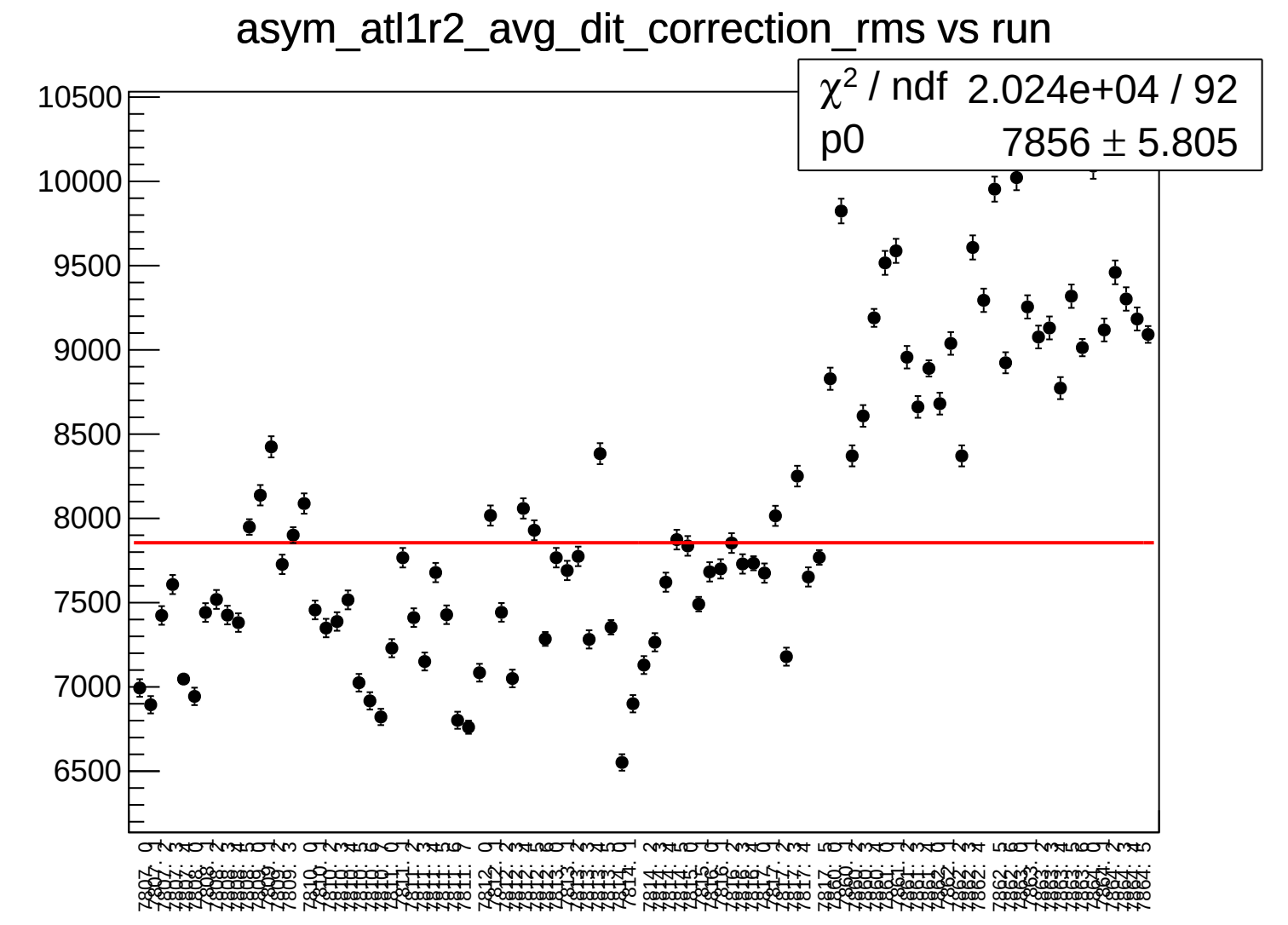

dit_asym_atl1r2_avg_mean vs run
χ² / ndf 101.9 / 92
p0 −198.7 ± 1941
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 24.82
Std Dev 32.9
2
1
0
−1
−2

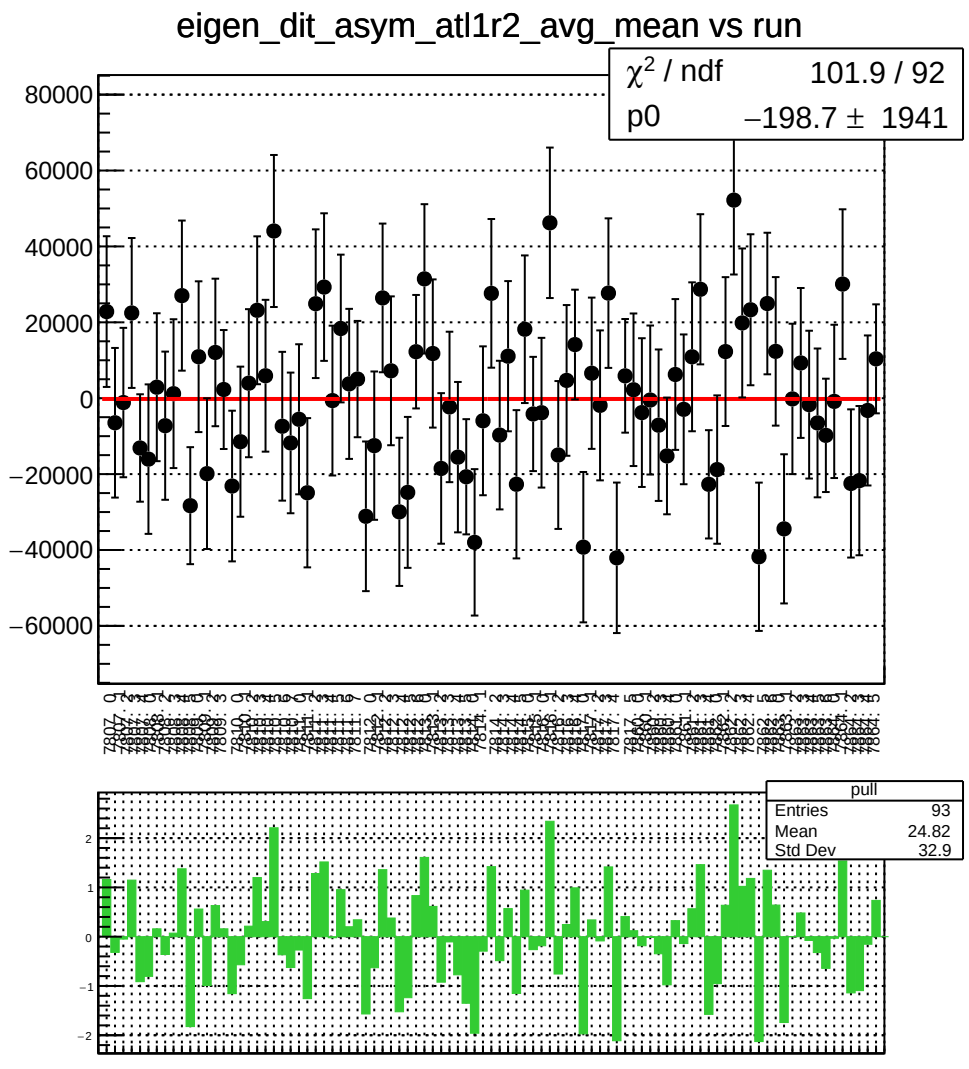

pull1D
Entries 93
Mean 0.01364
Std Dev 1.047
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

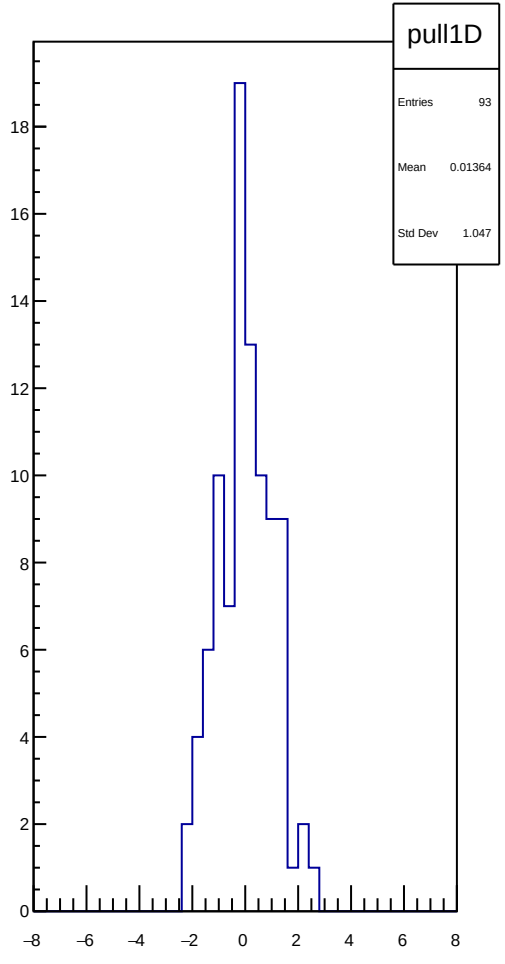

dit_asym_atl1r2_avg_rms vs run
χ² / ndf 127.1 / 92
p0 1868 ± 1.373
1940
1920
1900
1880
1860
1840
1820

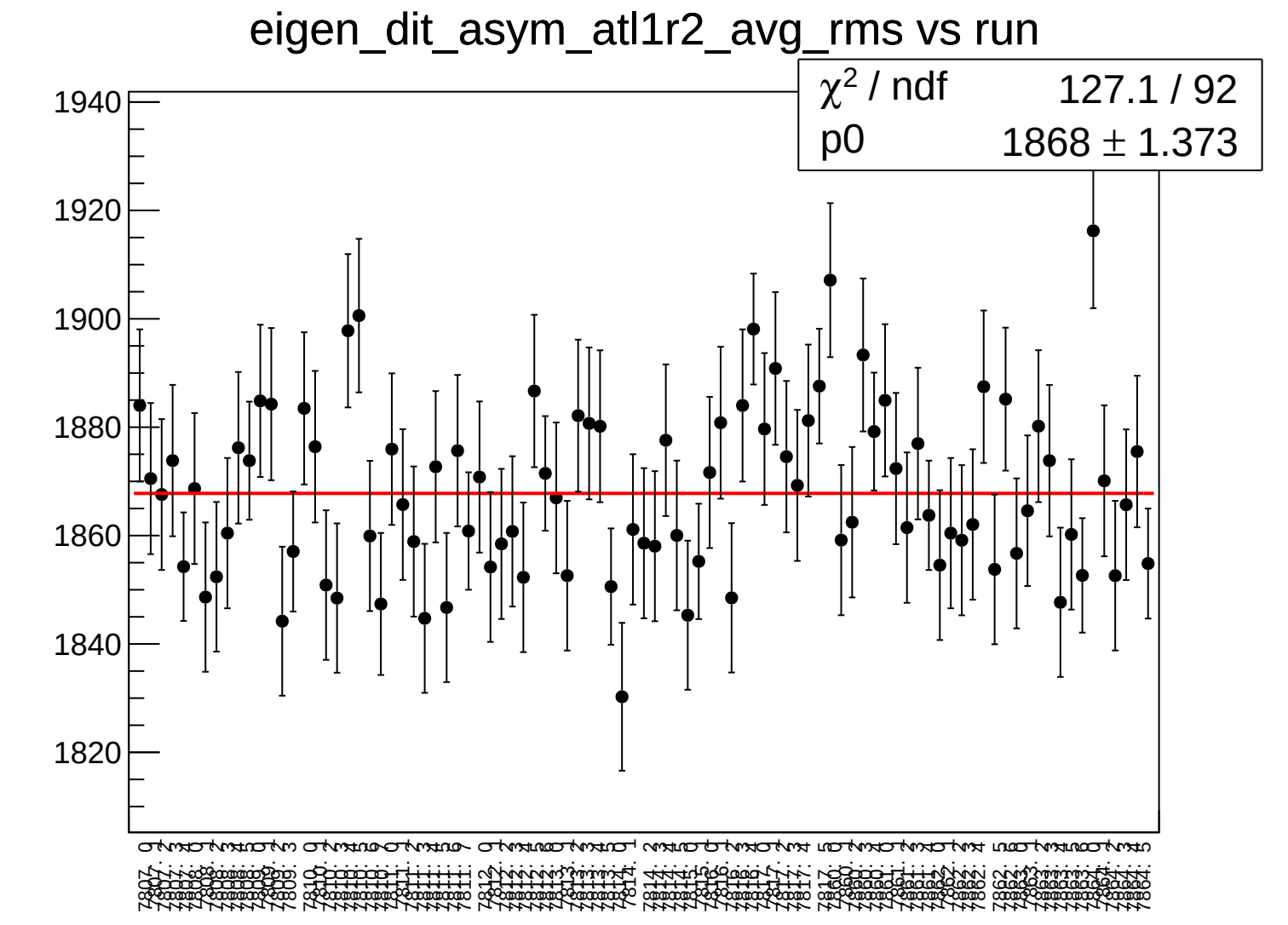

asym_atl1r2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 84.05 / 92
p0 7319 ± 8209
200
100
0
−100
−200
−300
−400
pull
Entries 93
Mean −37.49
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

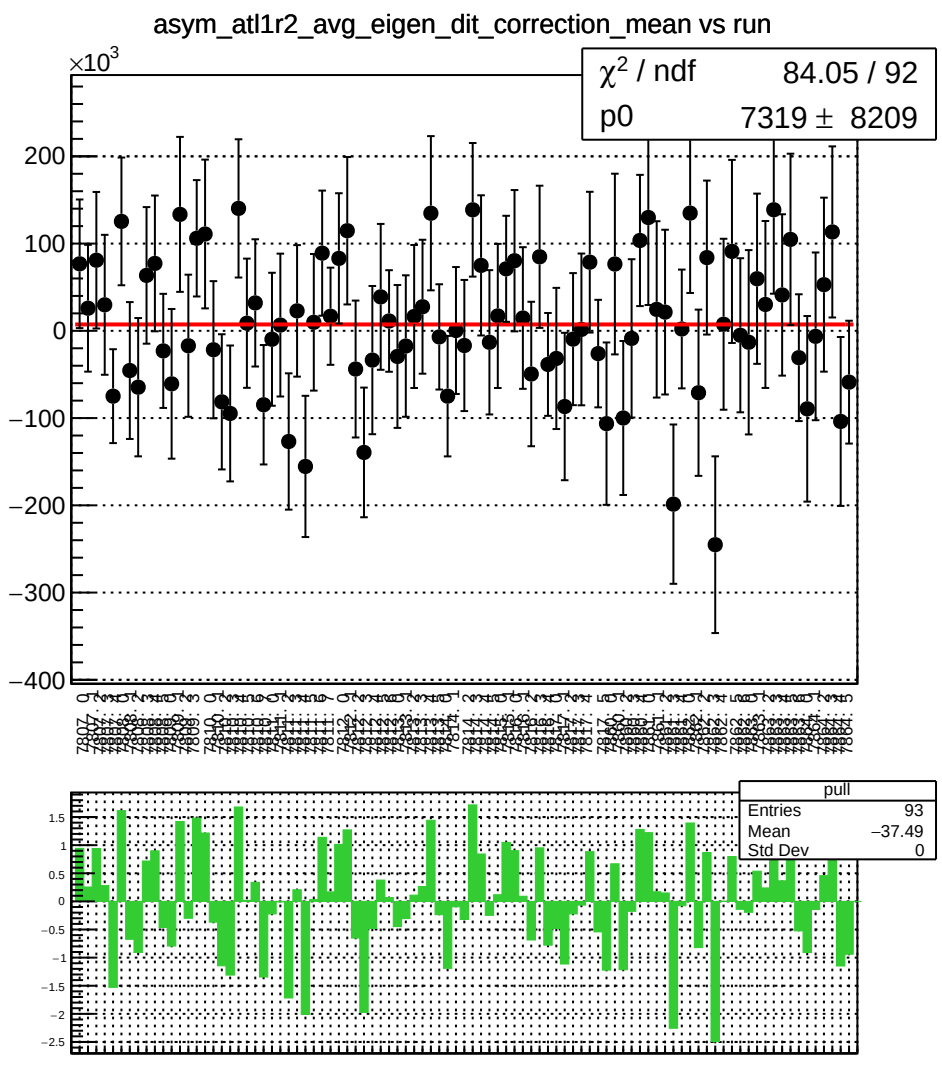

pull1D
Entries 93
Mean 0.01243
Std Dev 0.9506
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

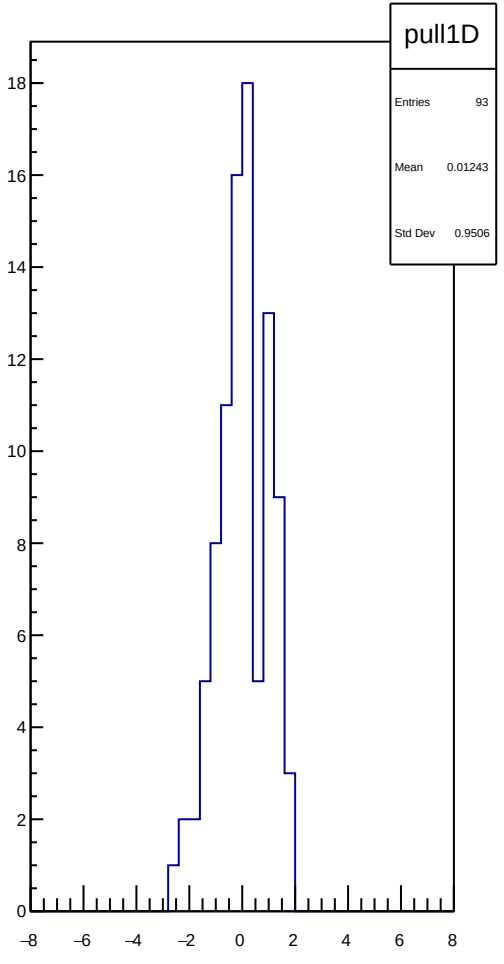

asym_atl1r2_avg_dit_correction_rms vs run
χ² / ndf 2.024e+04 / 92
p0 7856 ± 5.805
10500
10000
9500
9000
8500
8000
7500
7000
6500

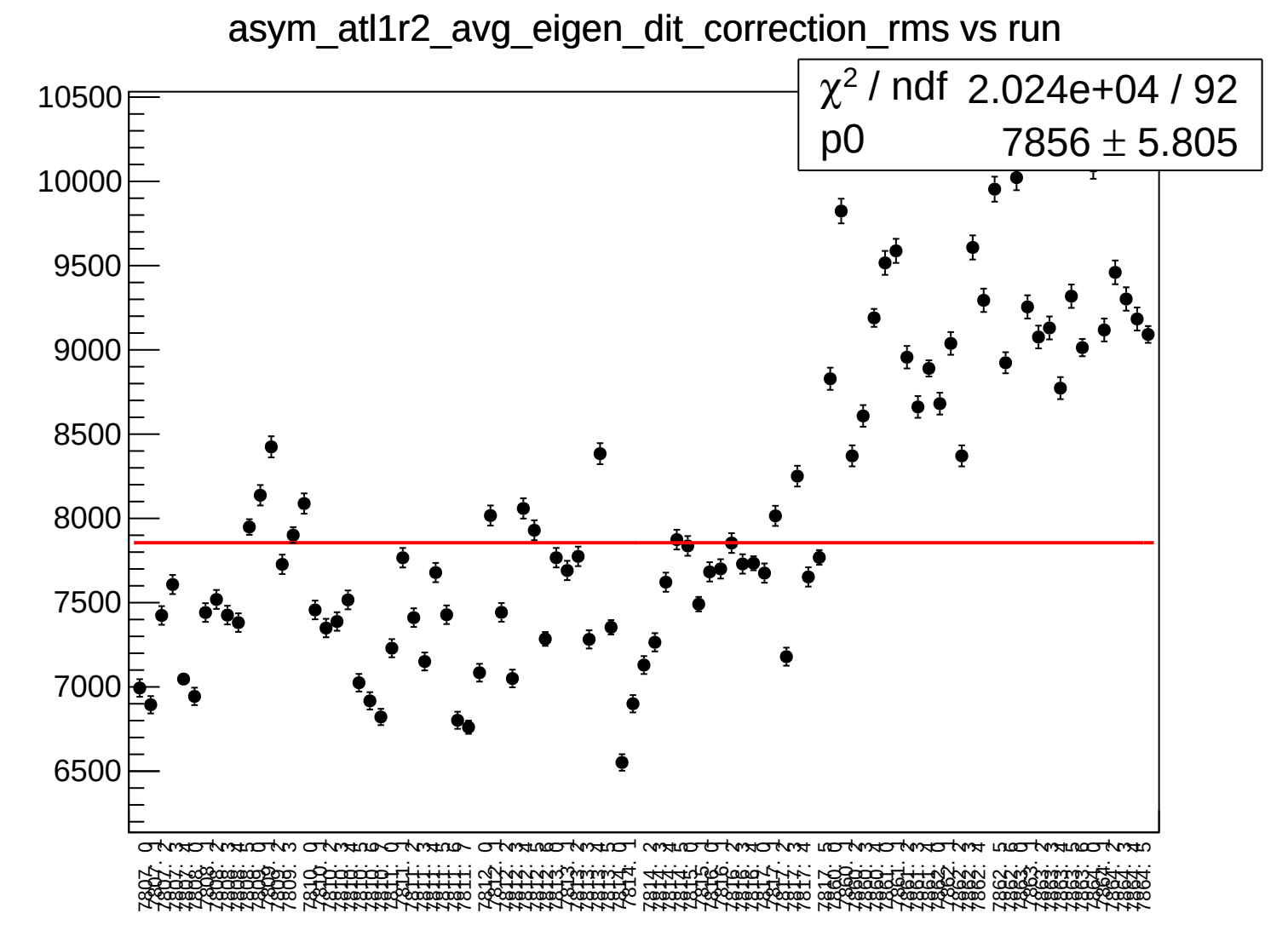

eigen_dit_asym_atl1r2_avg_mean vs run
χ² / ndf 101.9 / 92
p0 −198.7 ± 1941
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 24.82
Std Dev 32.9
2
1
0
−1
−2

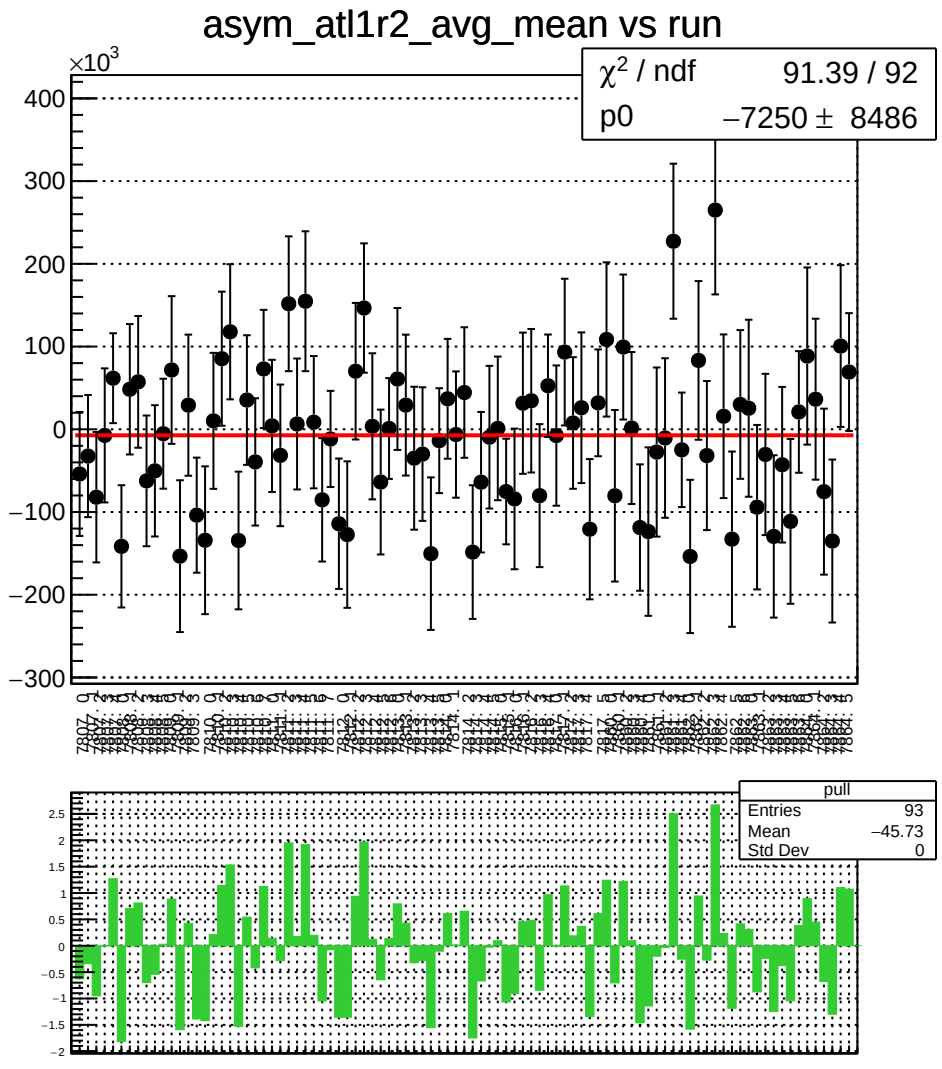

pull1D
Entries 93
Mean 0.01364
Std Dev 1.047
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

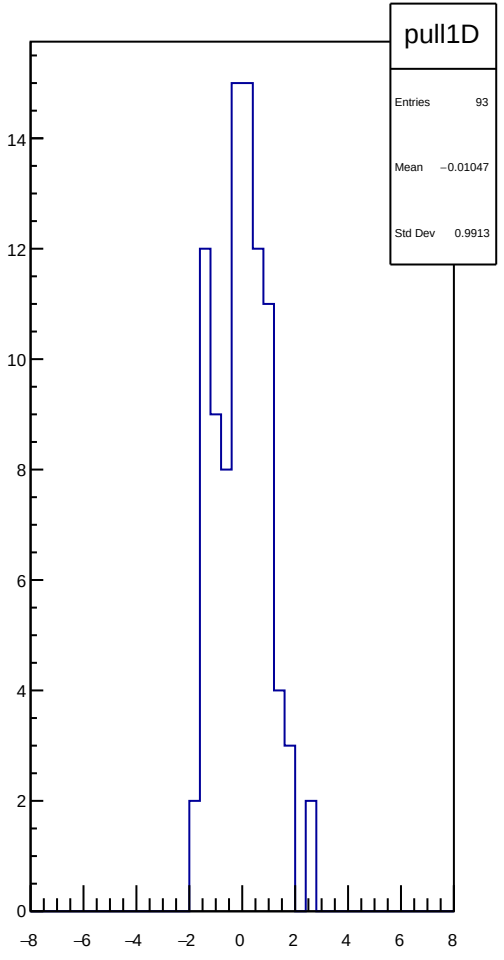

eigen_dit_asym_atl1r2_avg_rms vs run
χ^2 / ndf 127.1 / 92
p0 1868 ± 1.373
1940
1920
1900
1880
1860
1840
1820

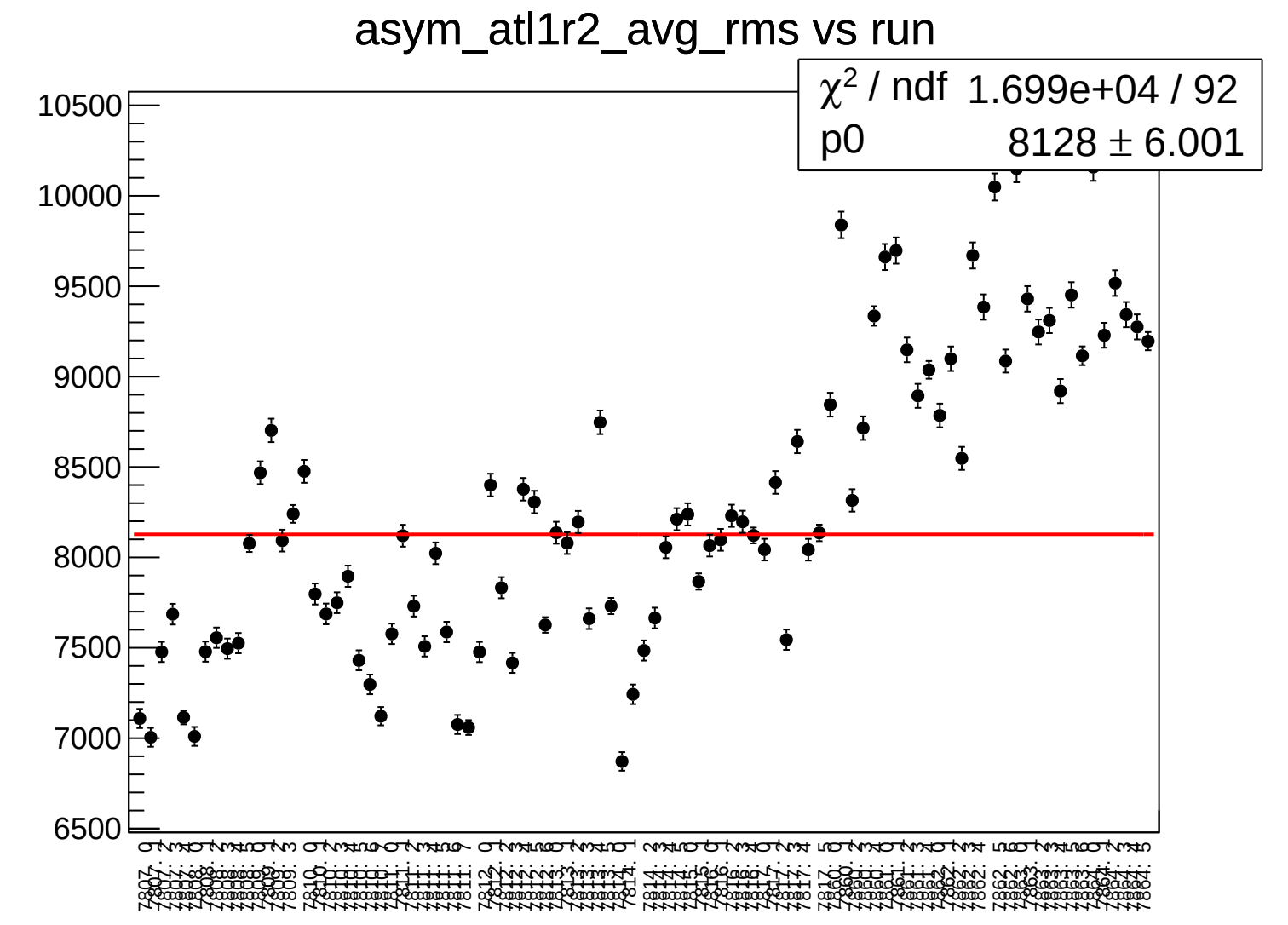

asym_atl1r2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 84.05 / 92
p0 7319 ± 8209
pull
Entries 93
Mean −37.49
Std Dev 0

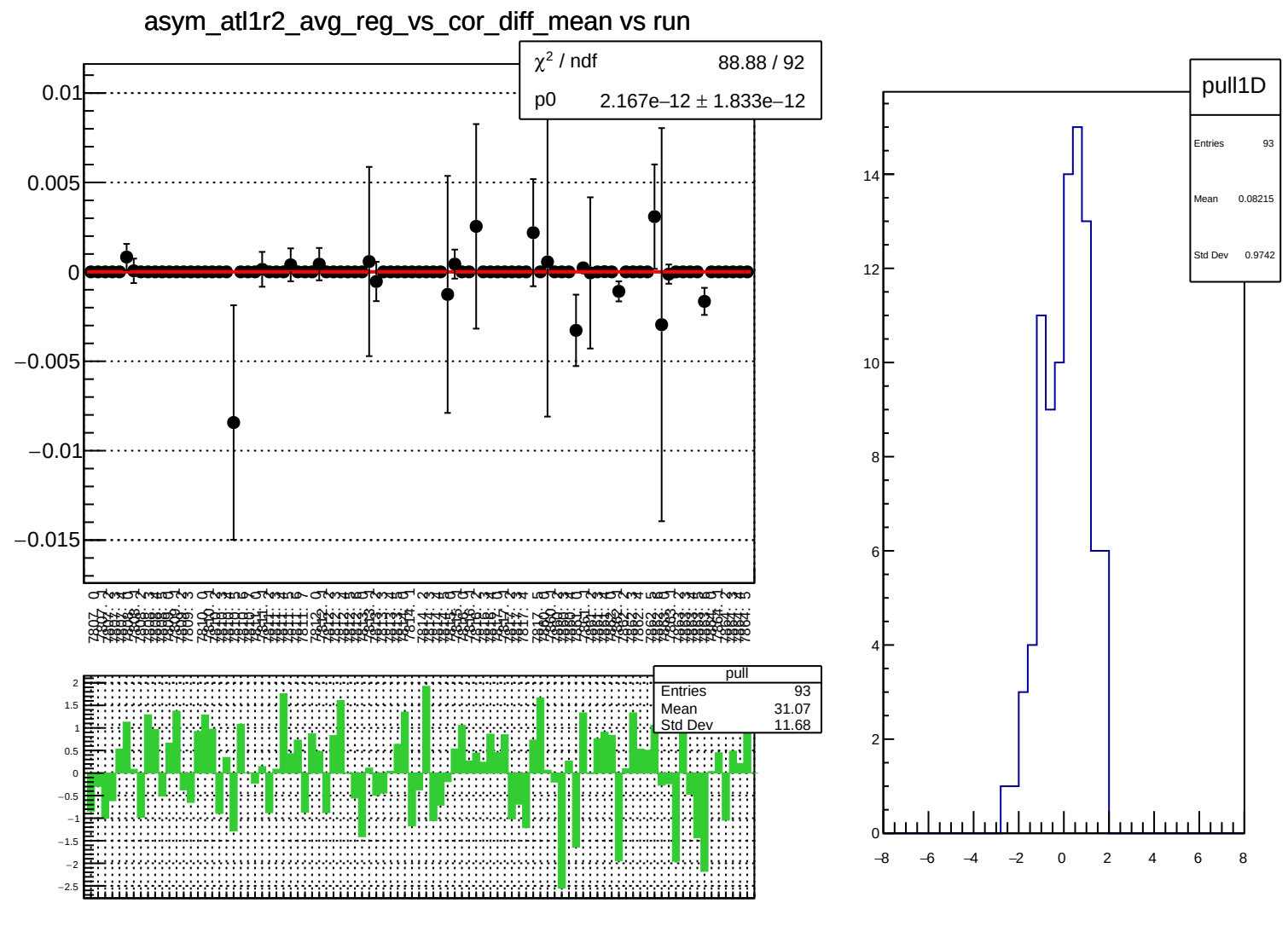

pull1D
Entries 93
Mean 0.01243
Std Dev 0.9506

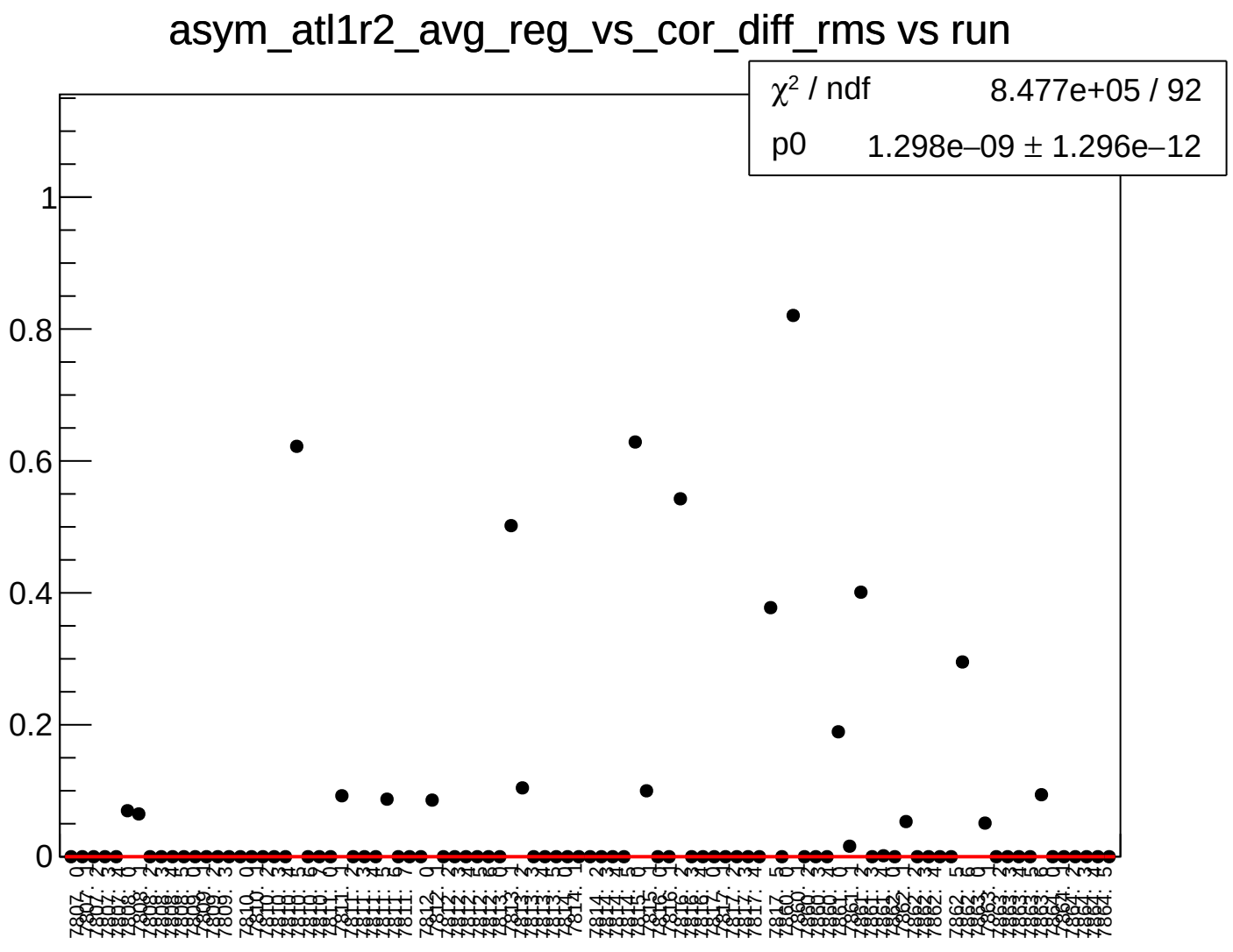

asym_atl1r2_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.024e+04 / 92
p0 7856 ± 5.805
10500
10000
9500
9000
8500
8000
7500
7000
6500

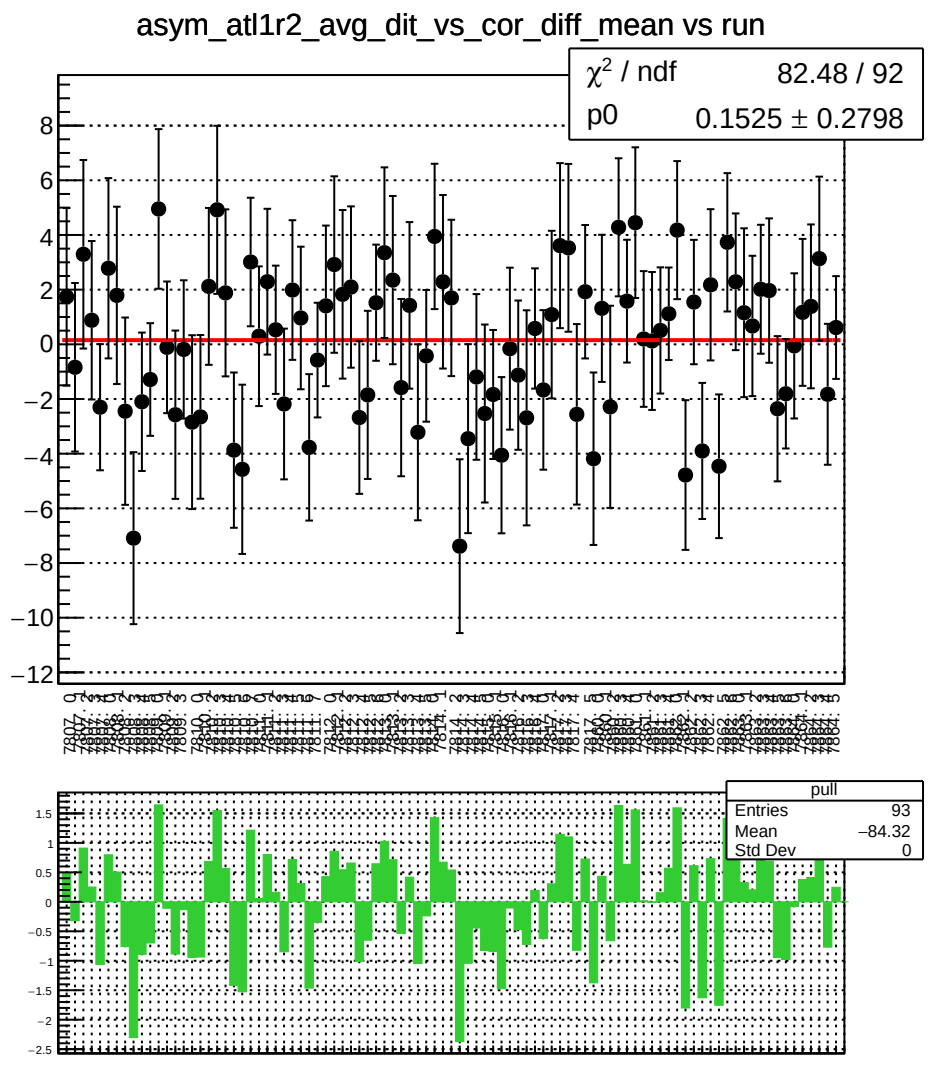

asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 91.39 / 92
p0 −7250 ± 8486
pull
Entries 93
Mean −45.73
Std Dev 0

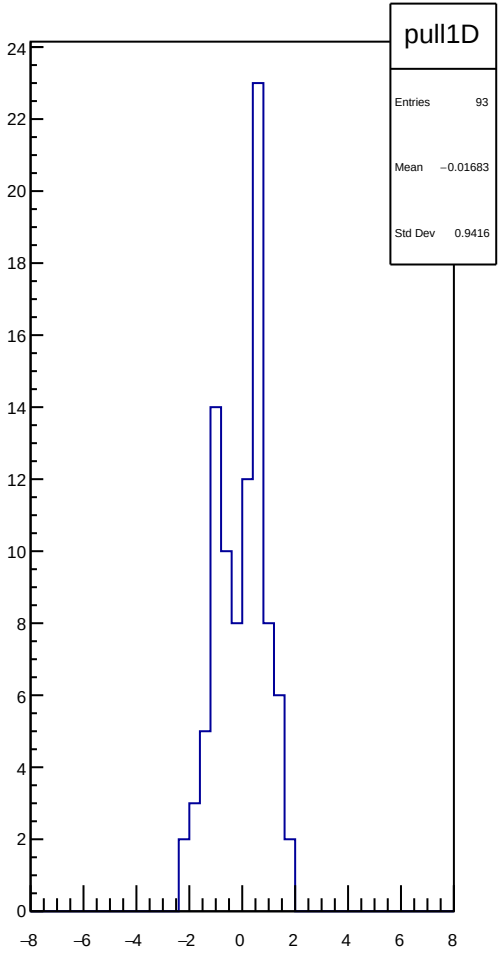

pull1D
Entries 93
Mean −0.01047
Std Dev 0.9913

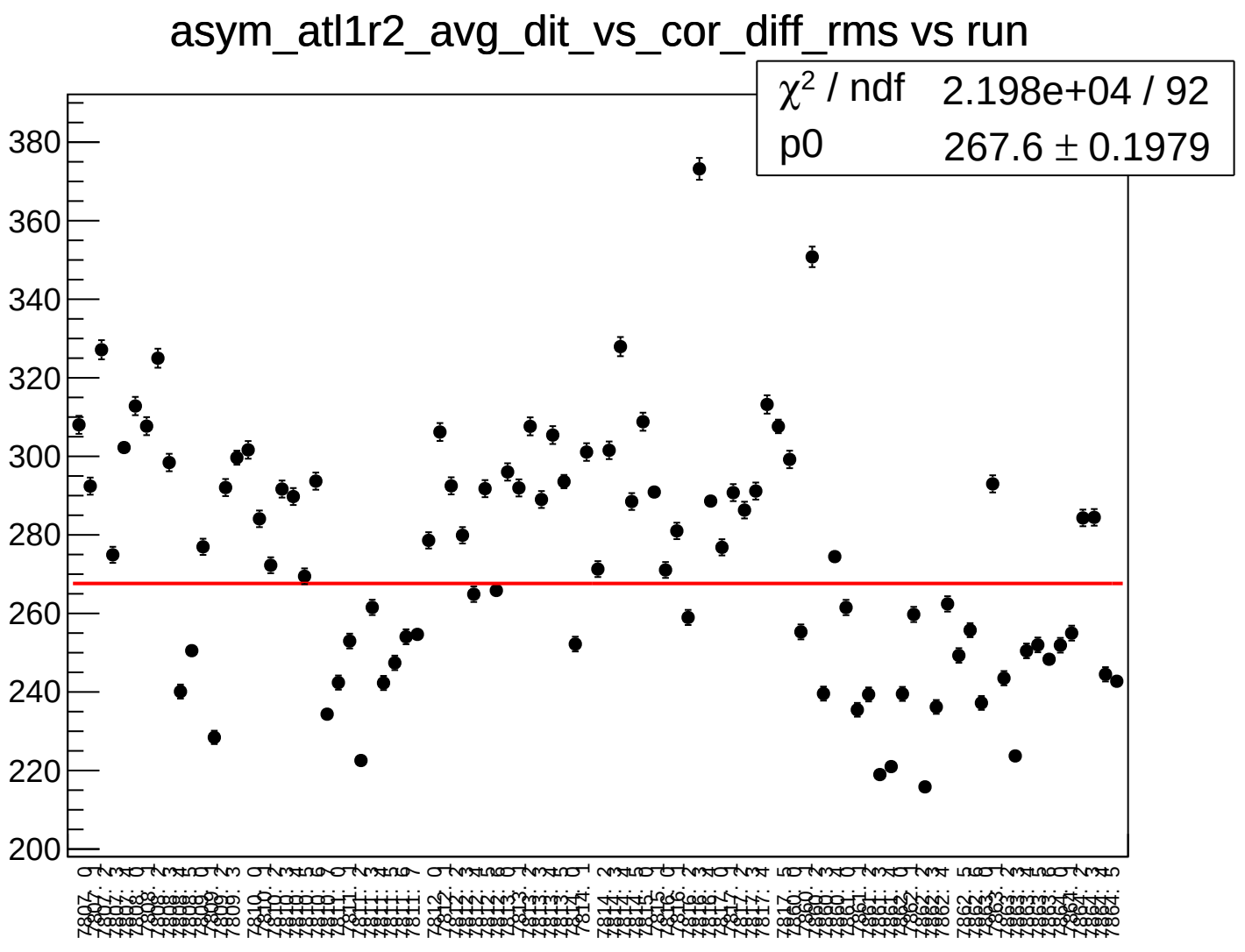

asym_atl1r2_avg_rms vs run
χ² / ndf 1.699e+04 / 92
p0 8128 ± 6.001
10500
10000
9500
9000
8500
8000
7500
7000
6500

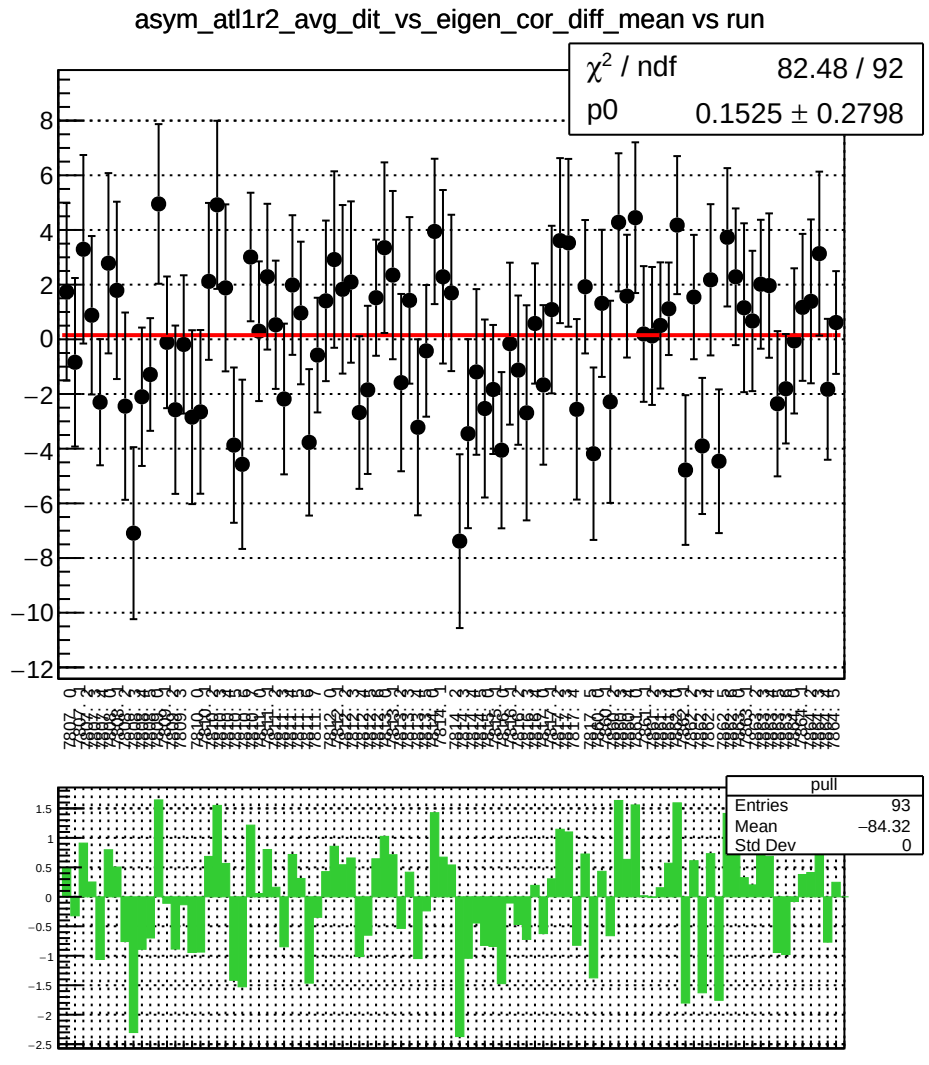

asym_atl1r2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 88.88 / 92
p0 2.167e−12 ± 1.833e−12
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 93
Mean 31.07
Std Dev 11.68
pull1D
Entries 93
Mean 0.08215
Std Dev 0.9742

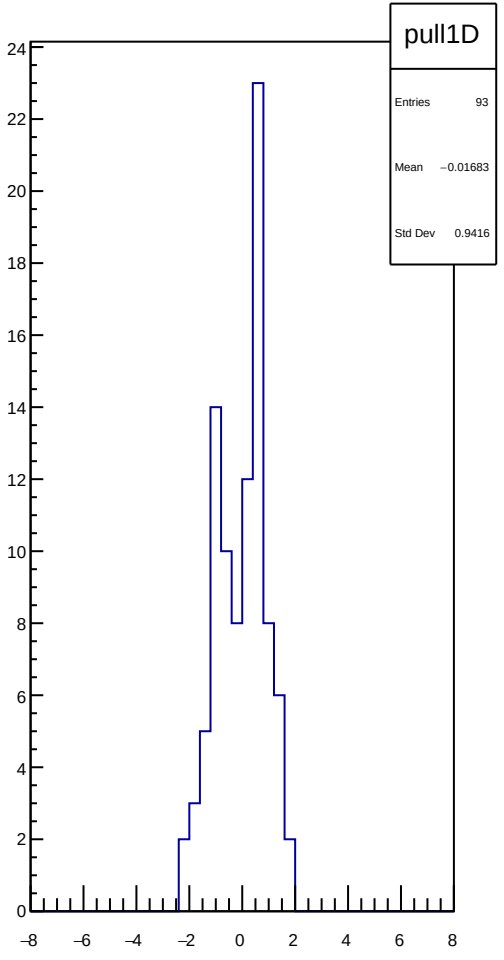

asym_atl1r2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.477e+05 / 92
p0 1.298e−09 ± 1.296e−12
1
0.8
0.6
0.4
0.2
0

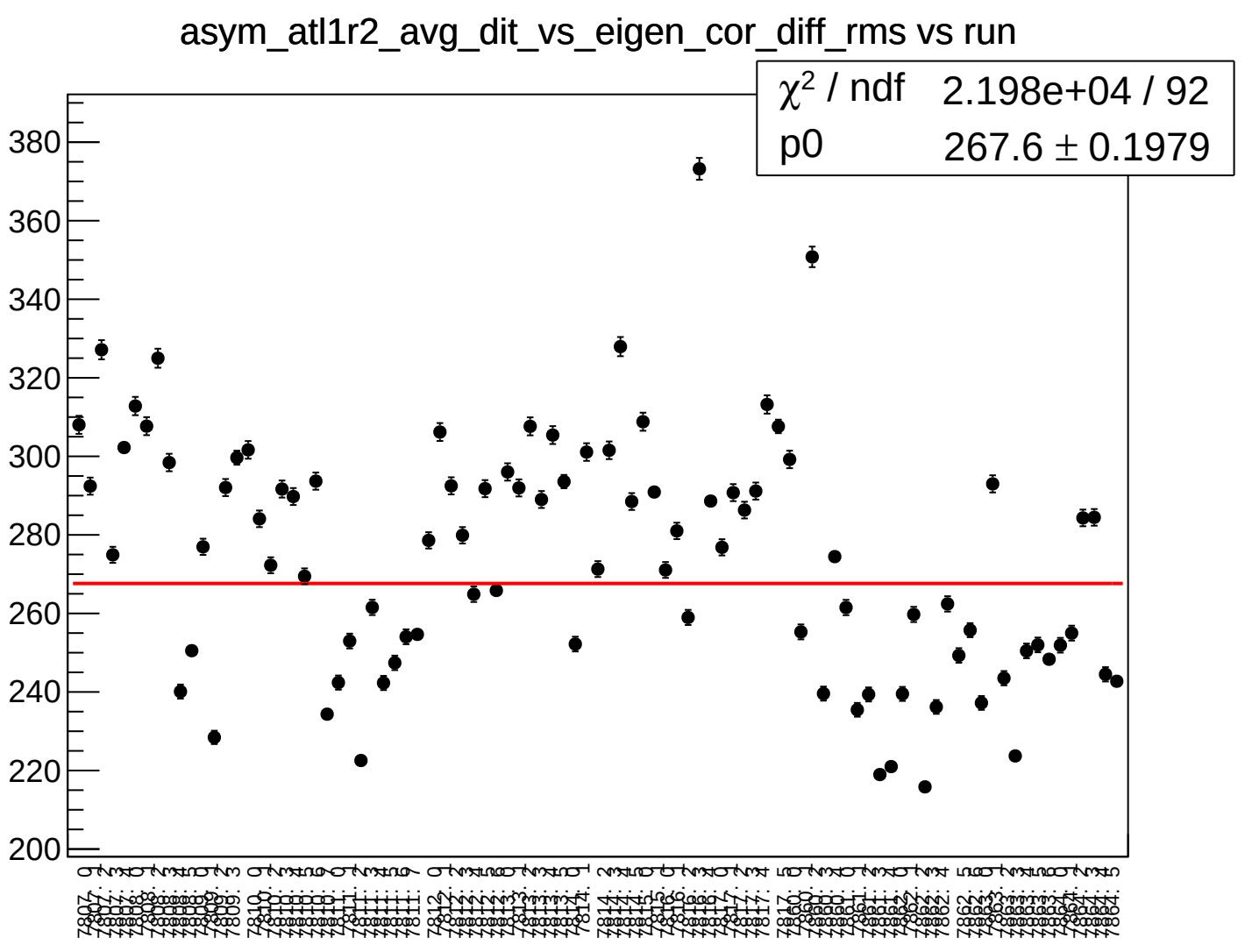

asym_atl1r2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 82.48 / 92
p0 0.1525 ± 0.2798
pull
Entries 93
Mean −84.32
Std Dev 0

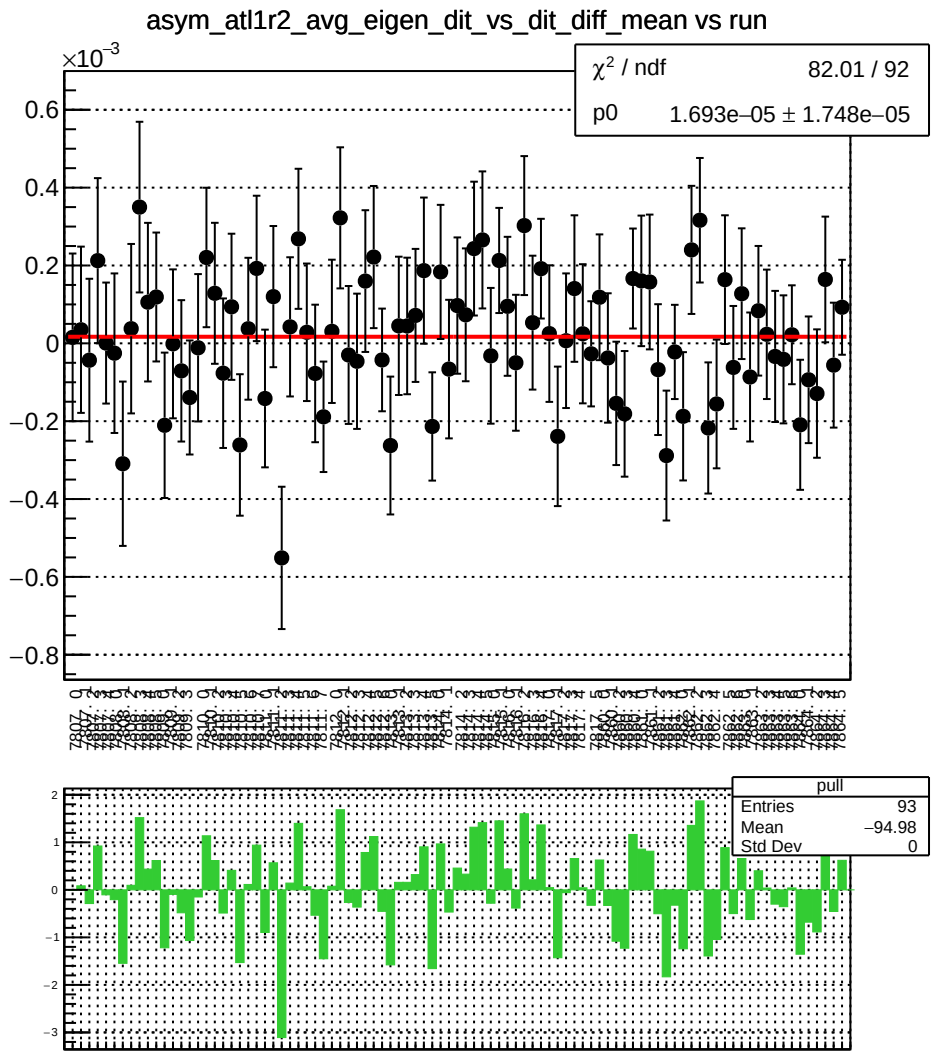

pull1D
Entries 93
Mean −0.01683
Std Dev 0.9416

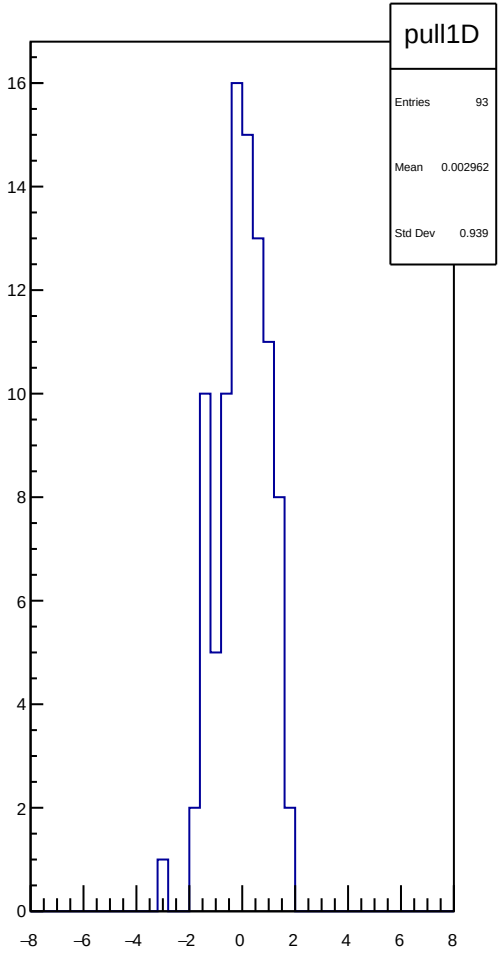

asym_atl1r2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.198e+04 / 92
p0 267.6 ± 0.1979
380
360
340
320
300
280
260
240
220
200

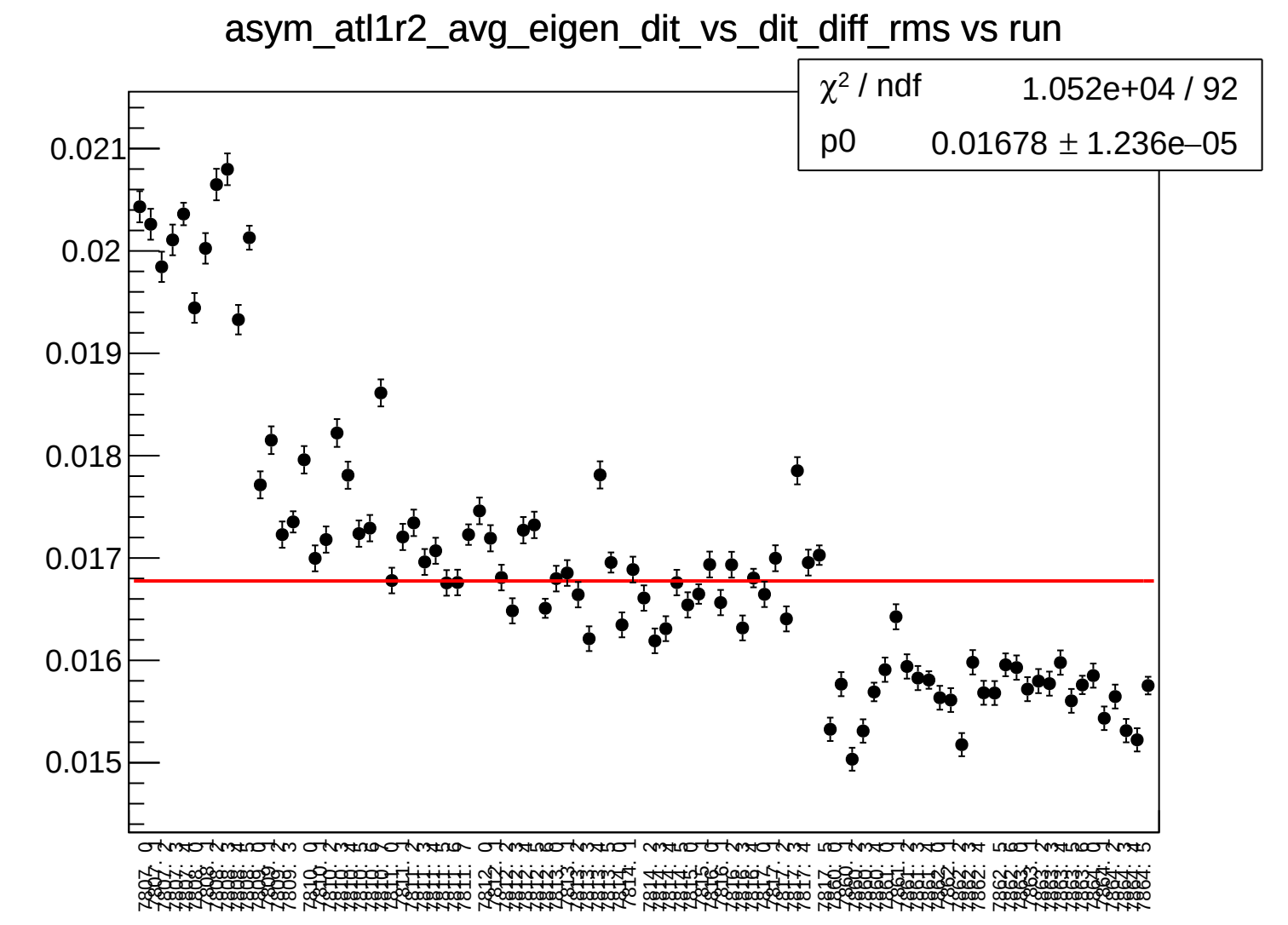

asym_atl1r2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.48 / 92
p0 0.1525 ± 0.2798
pull
Entries 93
Mean −84.32
Std Dev 0

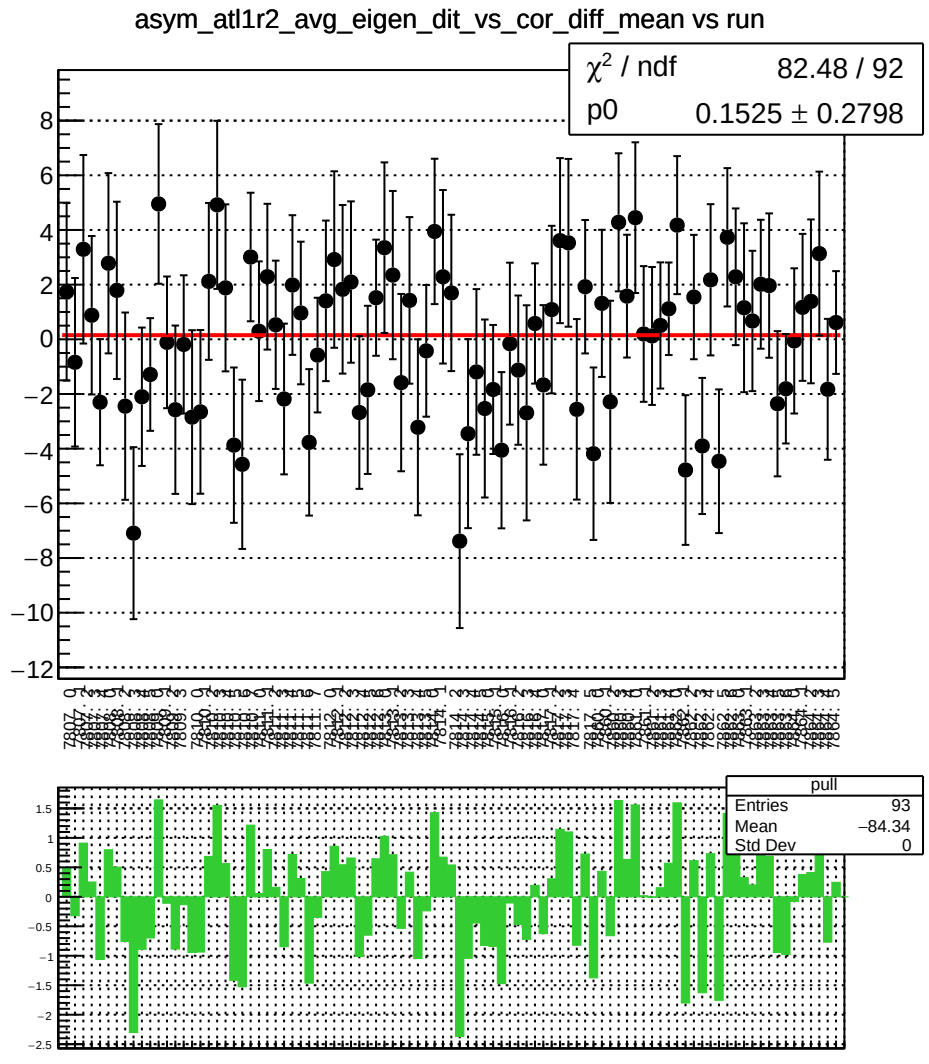

pull1D
Entries 93
Mean −0.01683
Std Dev 0.9416

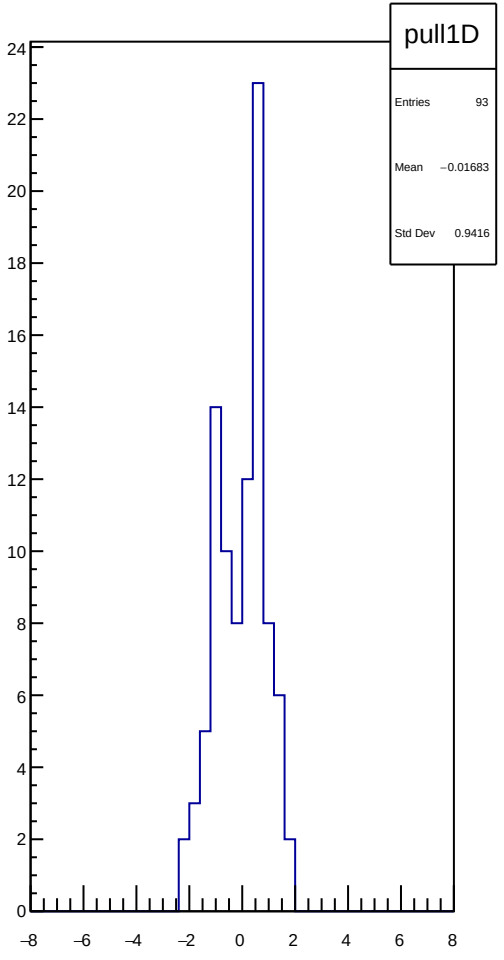

asym_atl1r2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.198e+04 / 92
p0 267.6 ± 0.1979
380
360
340
320
300
280
260
240
220
200

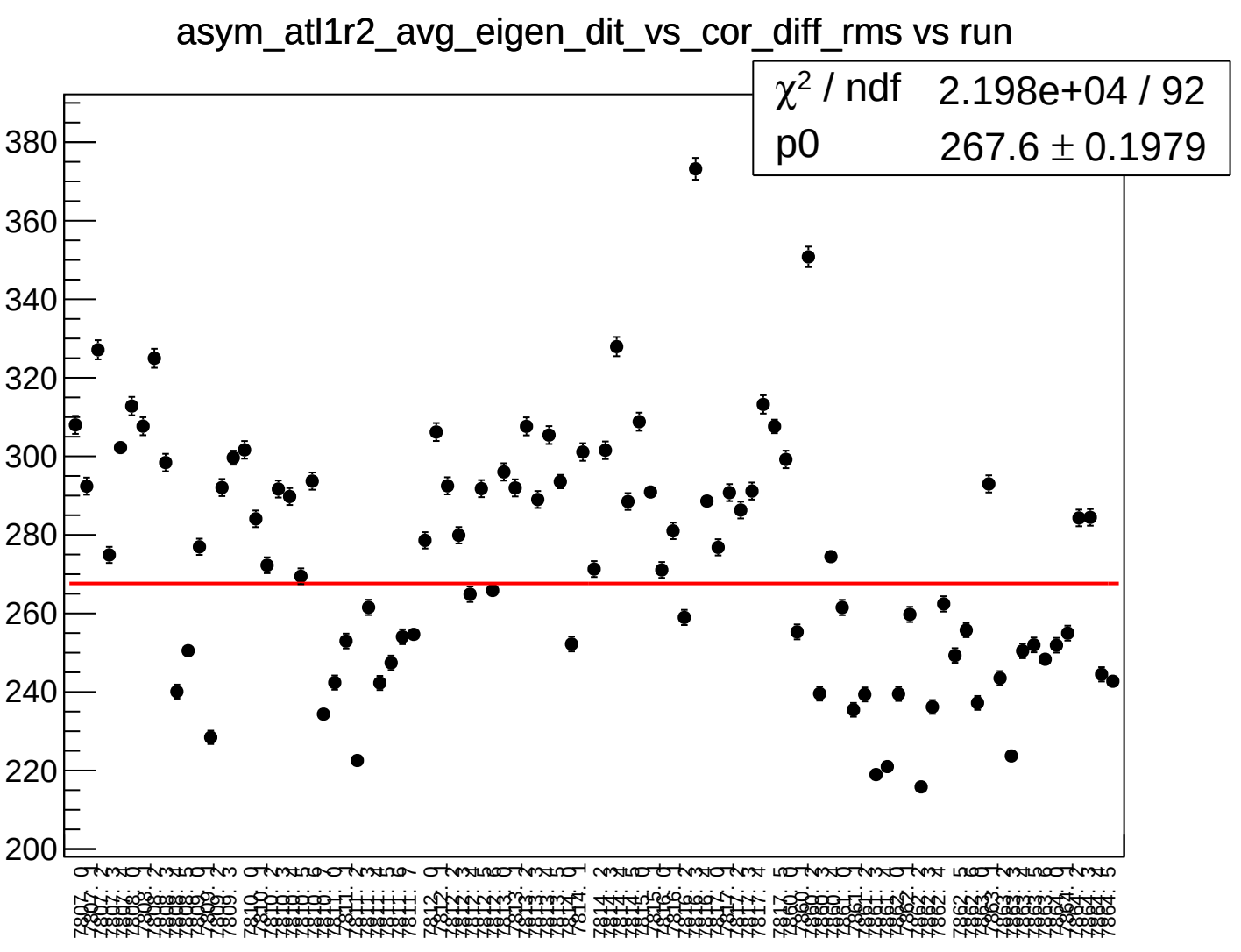

asym_atl1r2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 82.01 / 92
p0 1.693e−05 ± 1.748e−05
pull
Entries 93
Mean −94.98
Std Dev 0

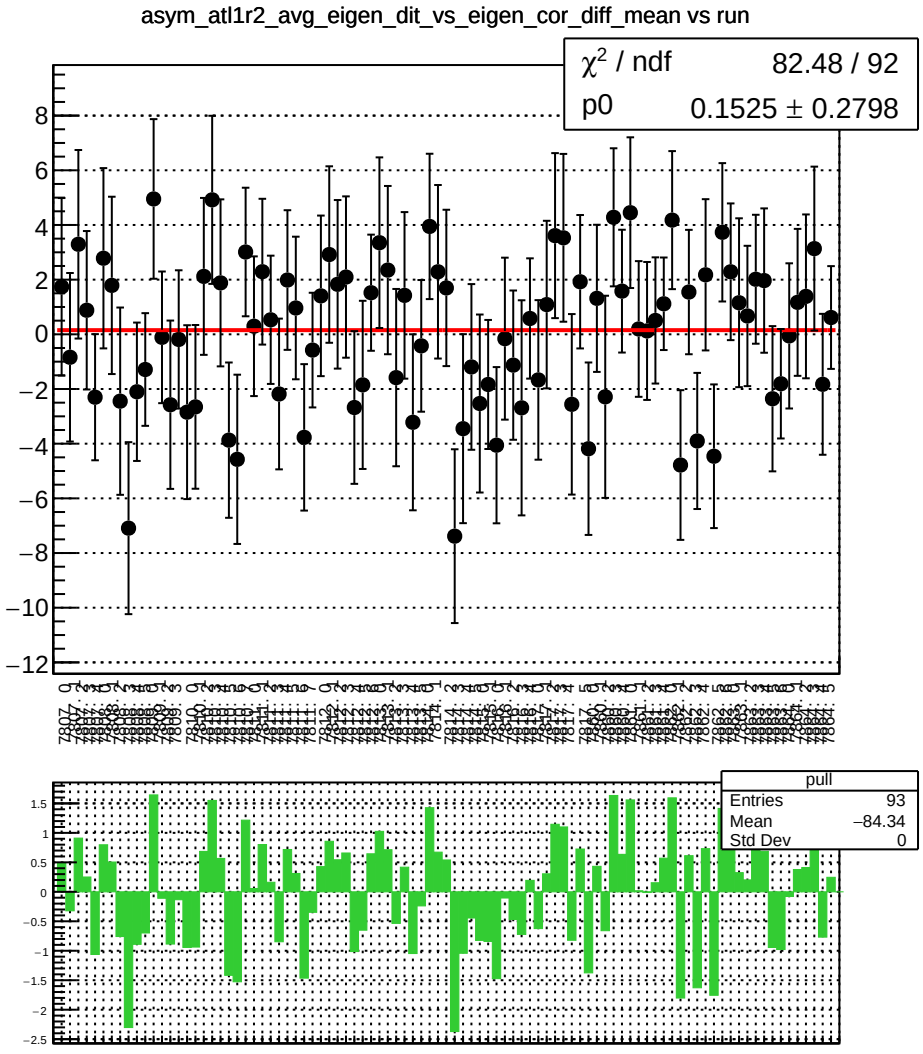

pull1D
Entries 93
Mean 0.002962
Std Dev 0.939

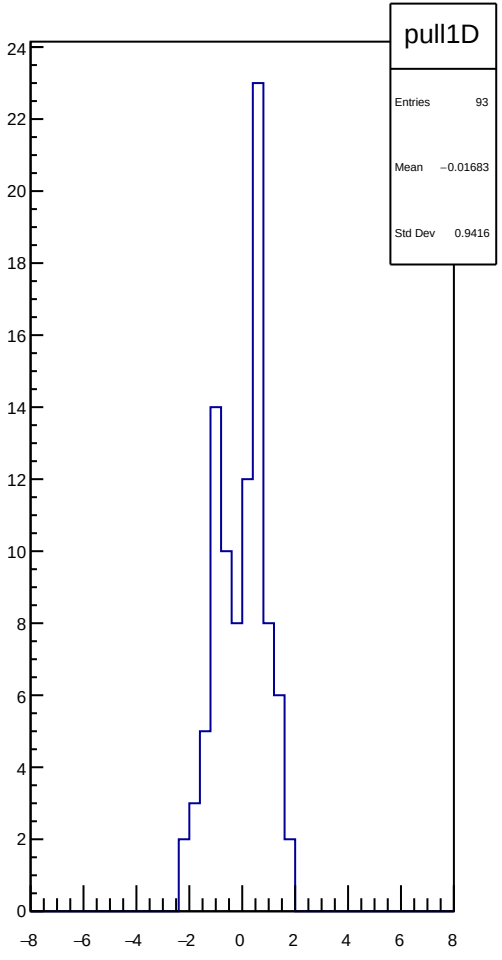

asym_atl1r2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.052e+04 / 92
p0 0.01678 ± 1.236e−05
0.021
0.02
0.019
0.018
0.017
0.016
0.015

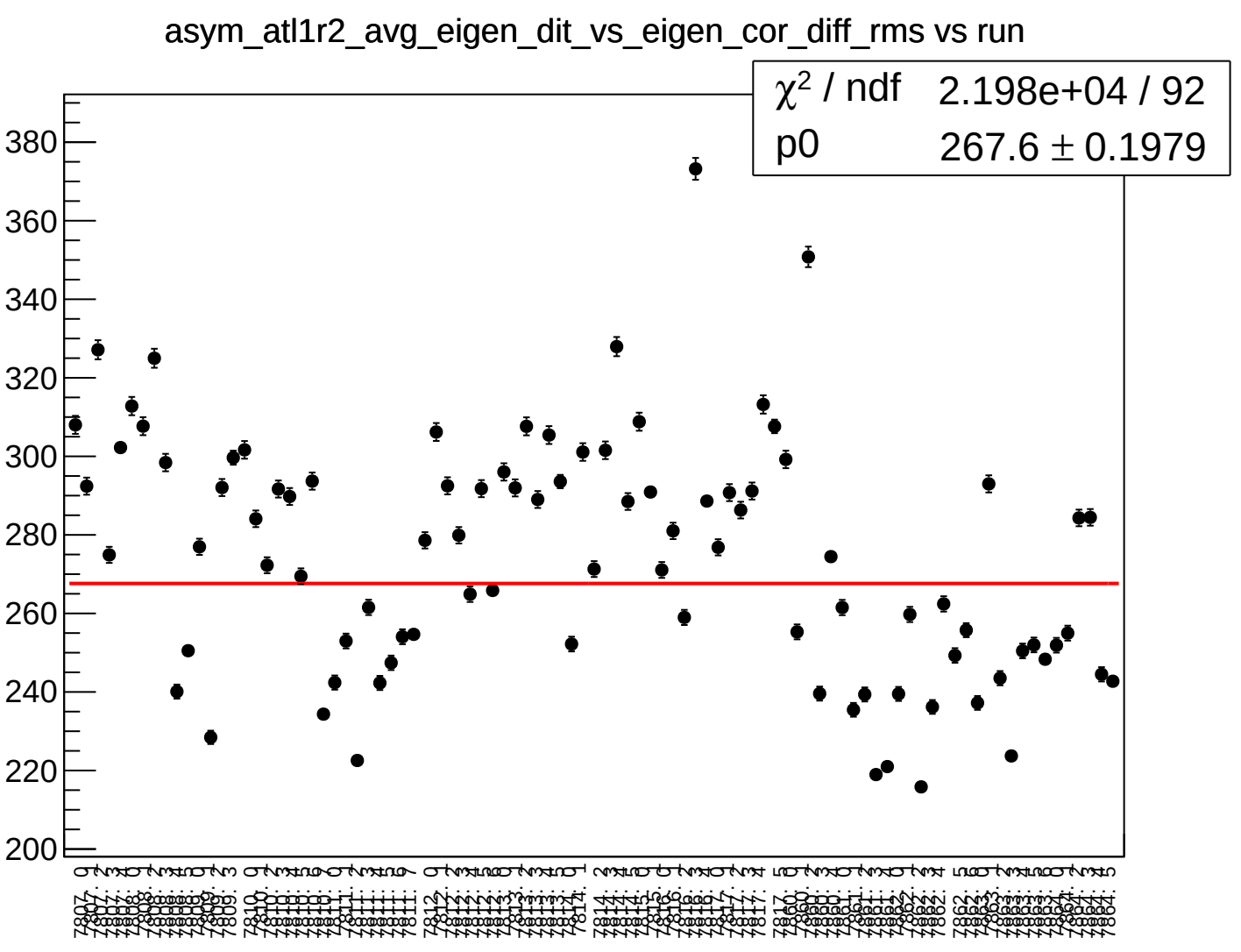

asym_atl1r2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.48 / 92
p0 0.1525 ± 0.2798
pull
Entries 93
Mean −84.34
Std Dev 0

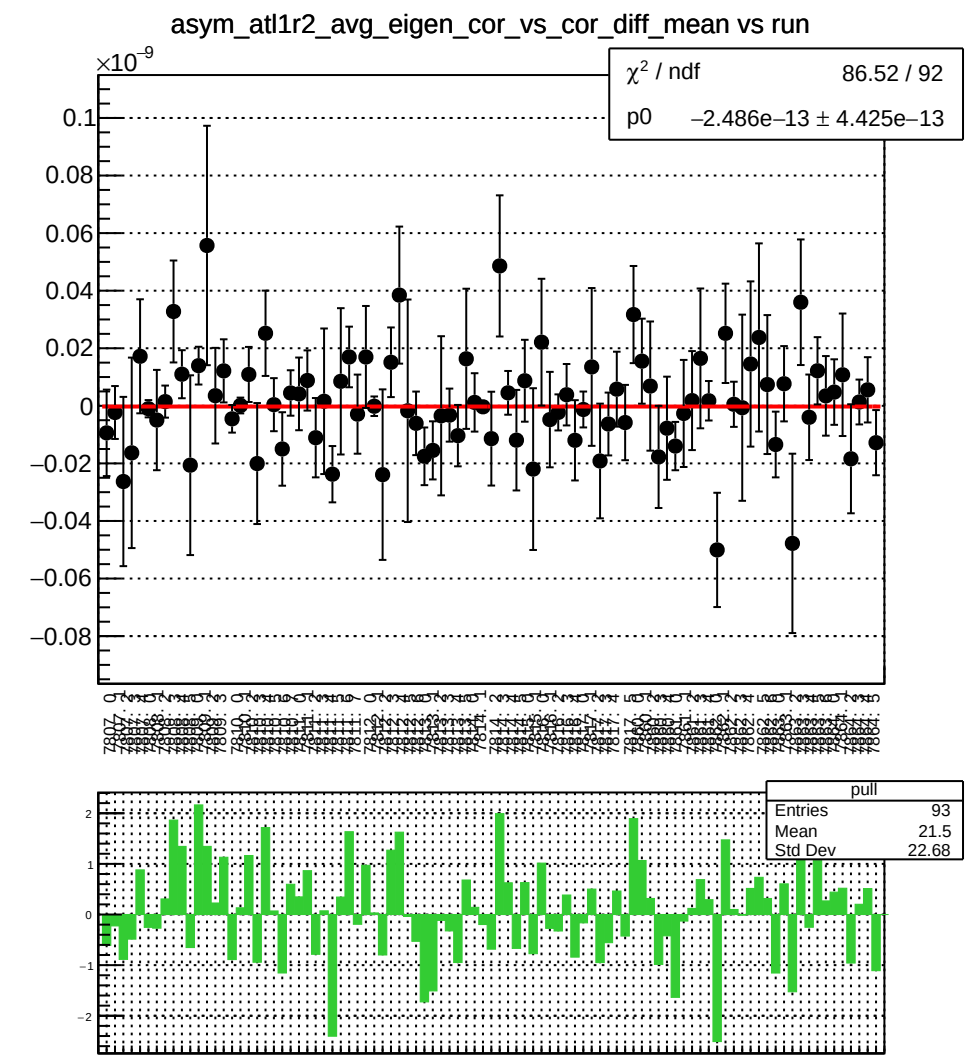

pull1D
Entries 93
Mean −0.01683
Std Dev 0.9416

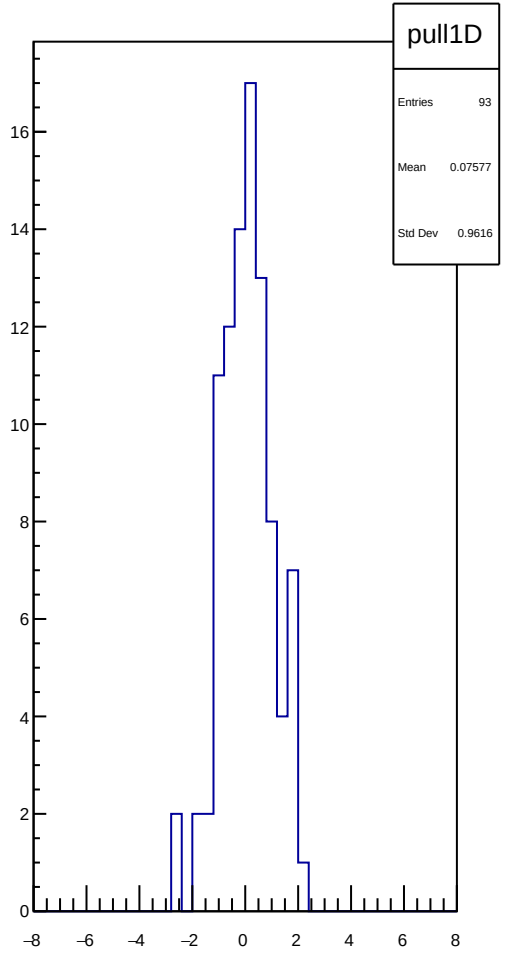

asym_atl1r2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.198e+04 / 92
p0 267.6 ± 0.1979
380
360
340
320
300
280
260
240
220
200

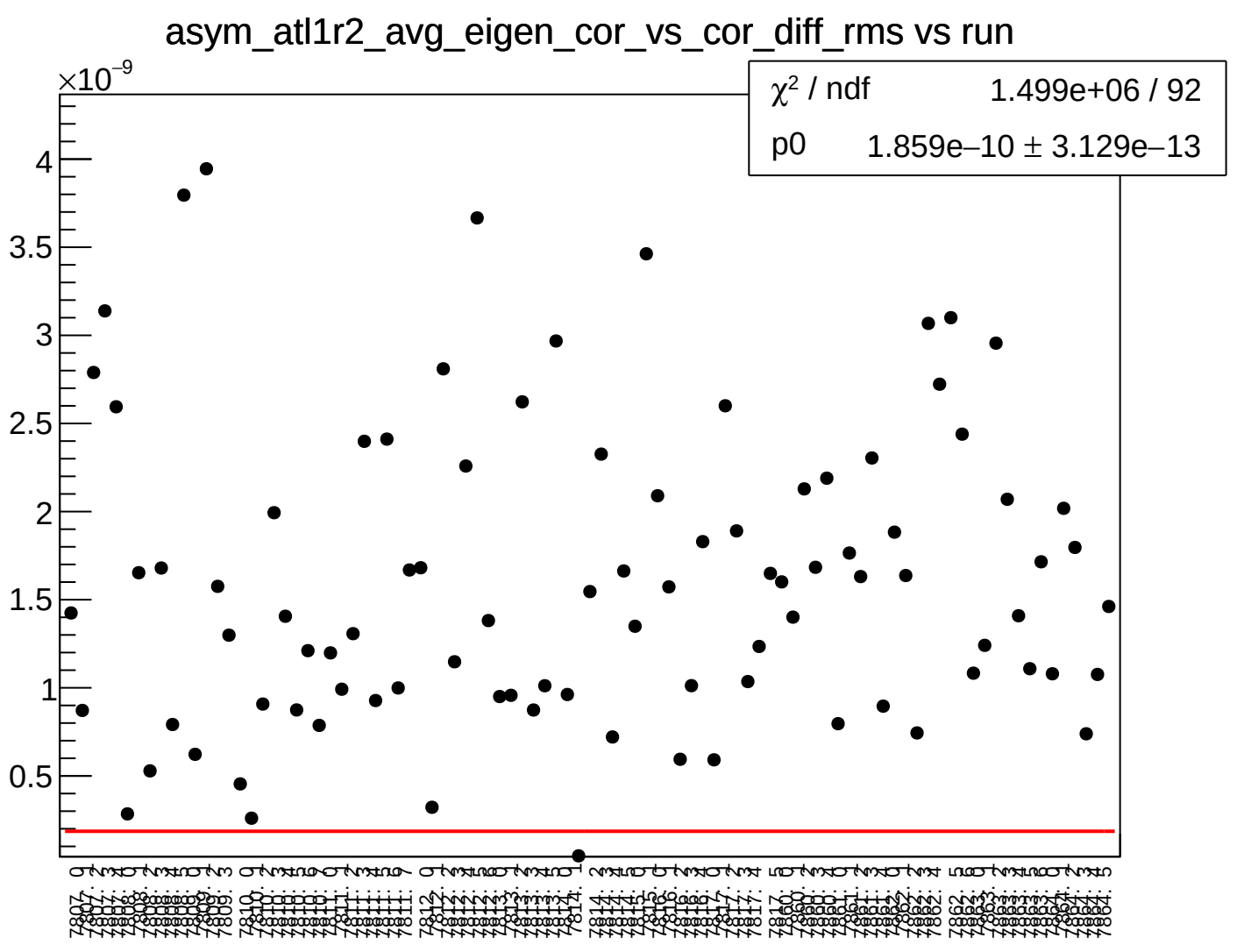

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.48 / 92
p0 0.1525 ± 0.2798
pull
Entries 93
Mean −84.34
Std Dev 0

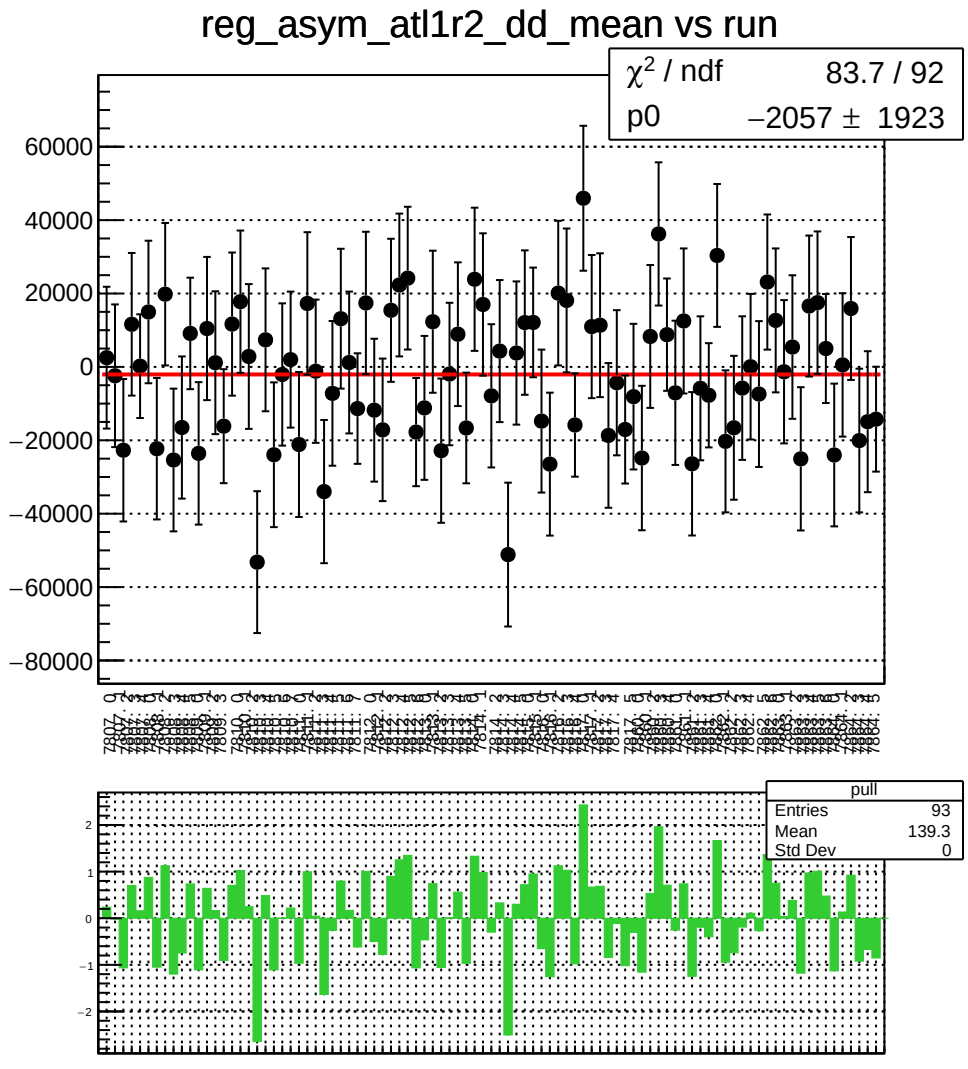

pull1D
Entries 93
Mean −0.01683
Std Dev 0.9416

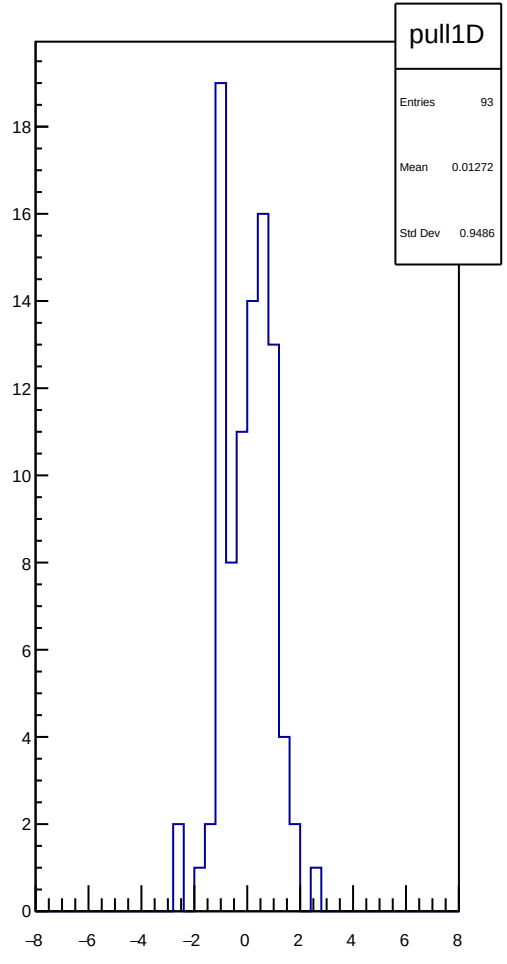

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.198e+04 / 92
p0 267.6 ± 0.1979
380
360
340
320
300
280
260
240
220
200

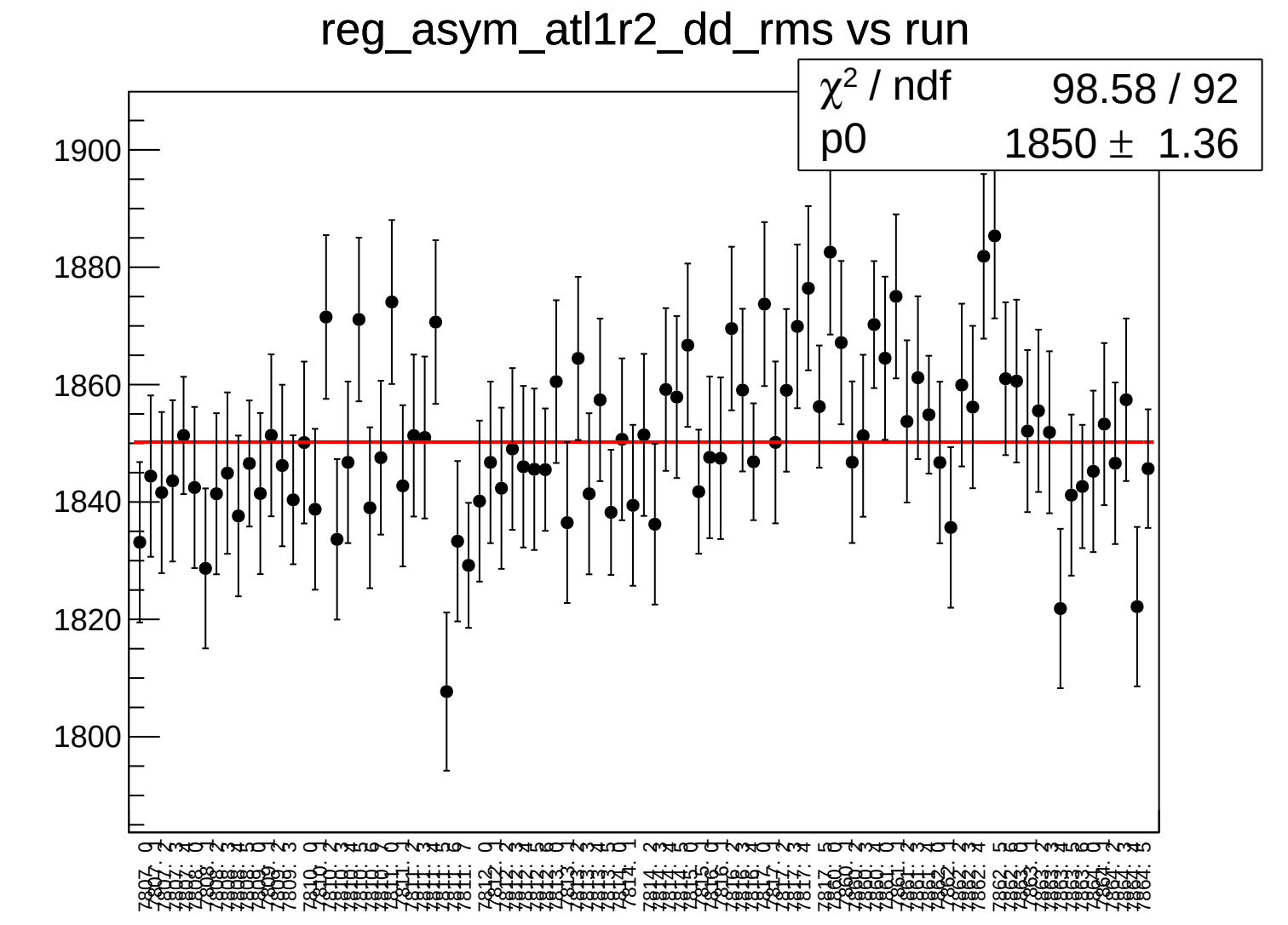

asym_atl1r2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 86.52 / 92
p0 −2.486e−13 ± 4.425e−13
pull
Entries 93
Mean 21.5
Std Dev 22.68

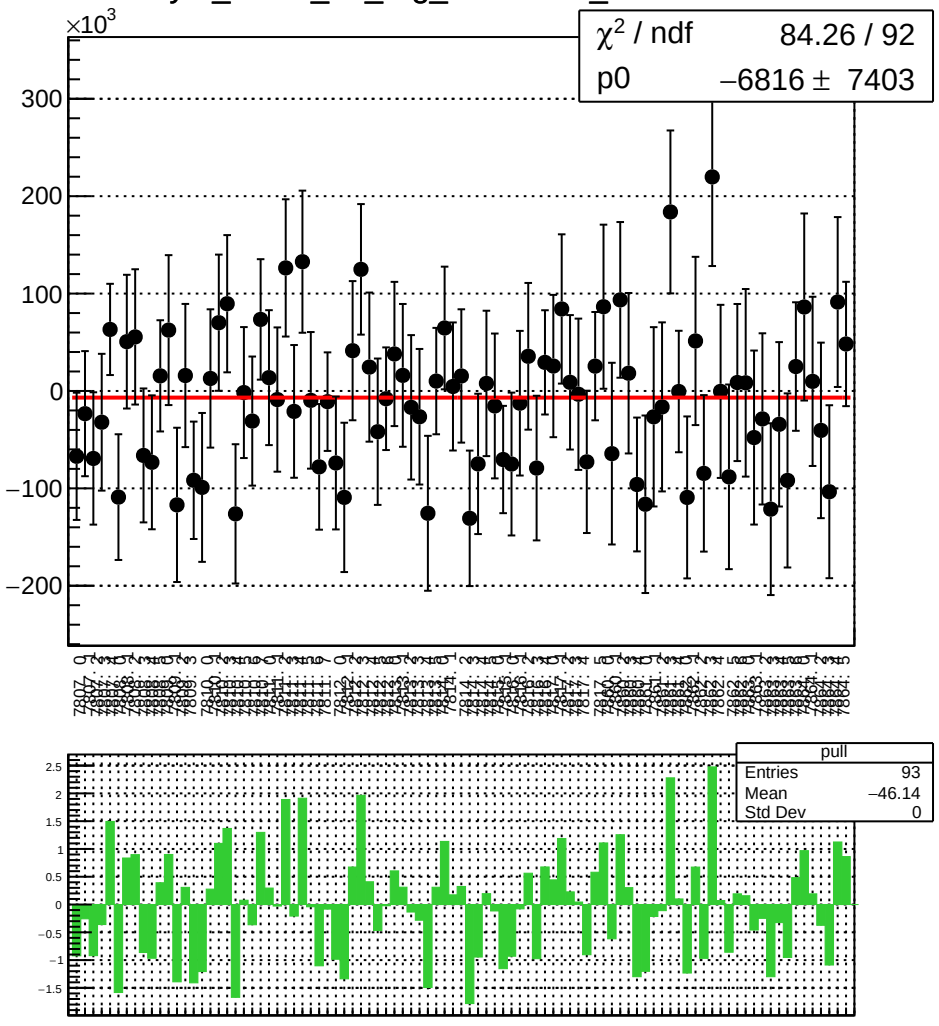

pull1D
Entries 93
Mean 0.07577
Std Dev 0.9616

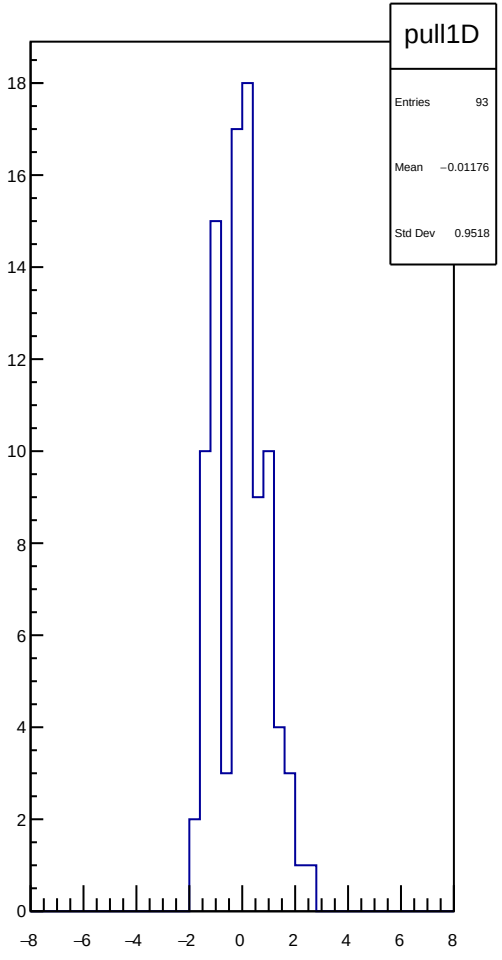

asym_atl1r2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.499e+06 / 92
p0 1.859e−10 ± 3.129e−13
4
3.5
3
2.5
2
1.5
1
0.5

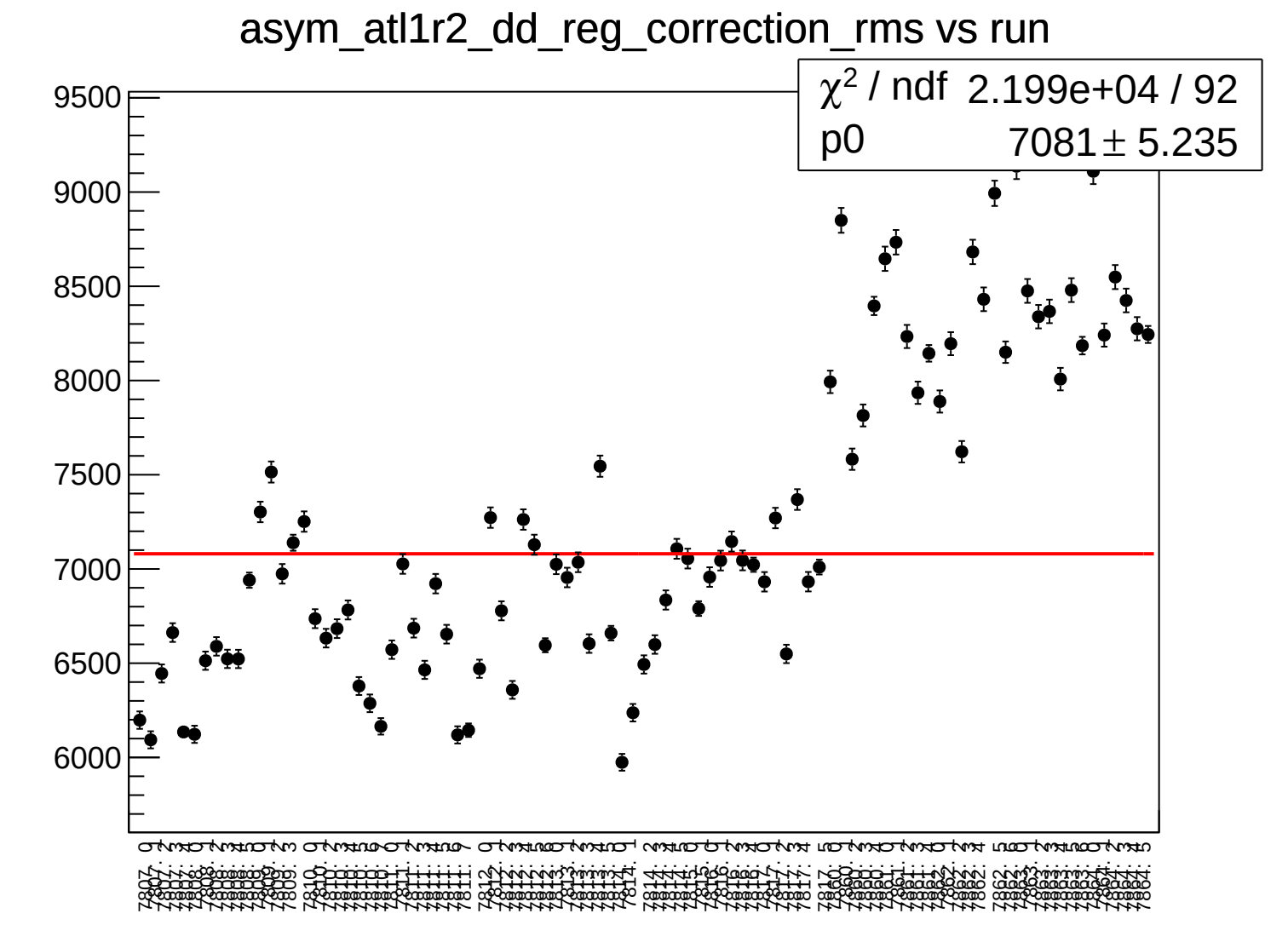

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 83.7 / 92
p0 −2057 ± 1923
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean 139.3
Std Dev 0
2
1
0
−1
−2

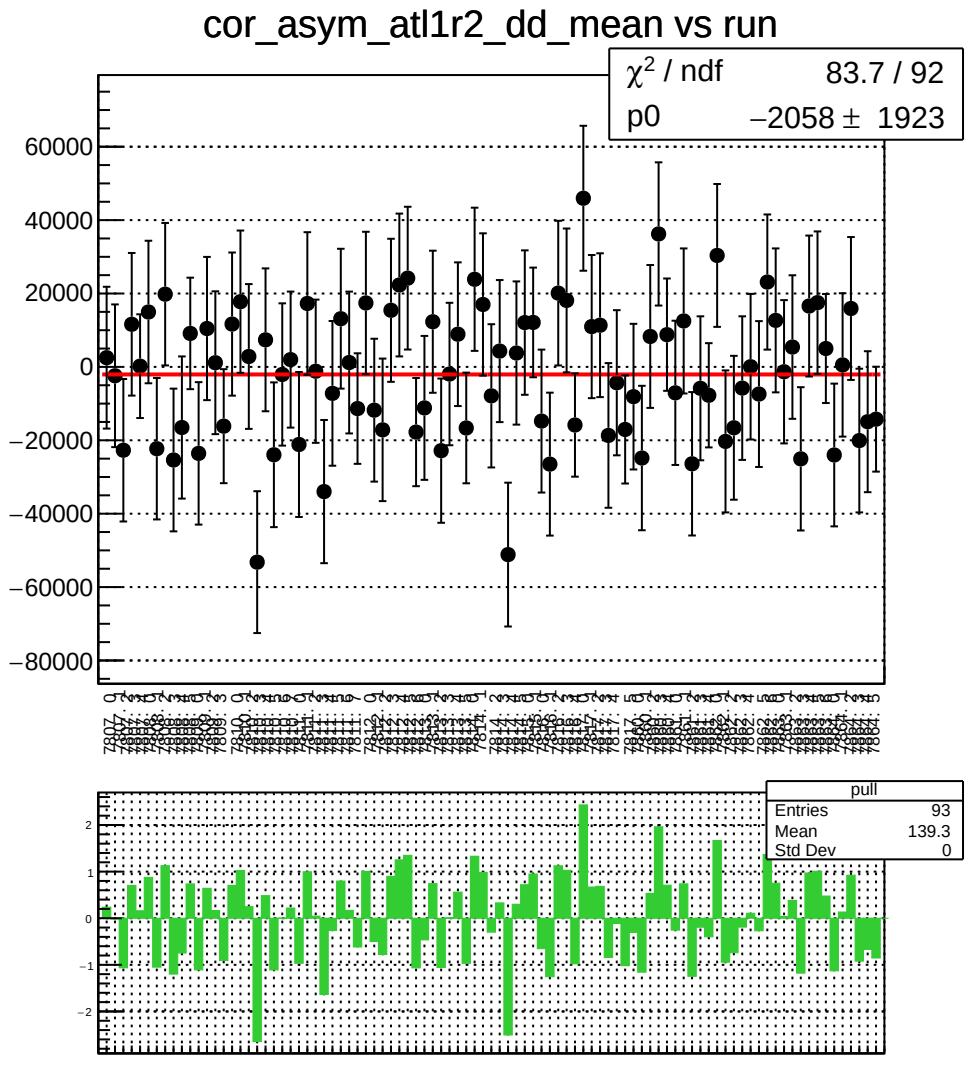

pull1D
Entries 93
Mean 0.01272
Std Dev 0.9486
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

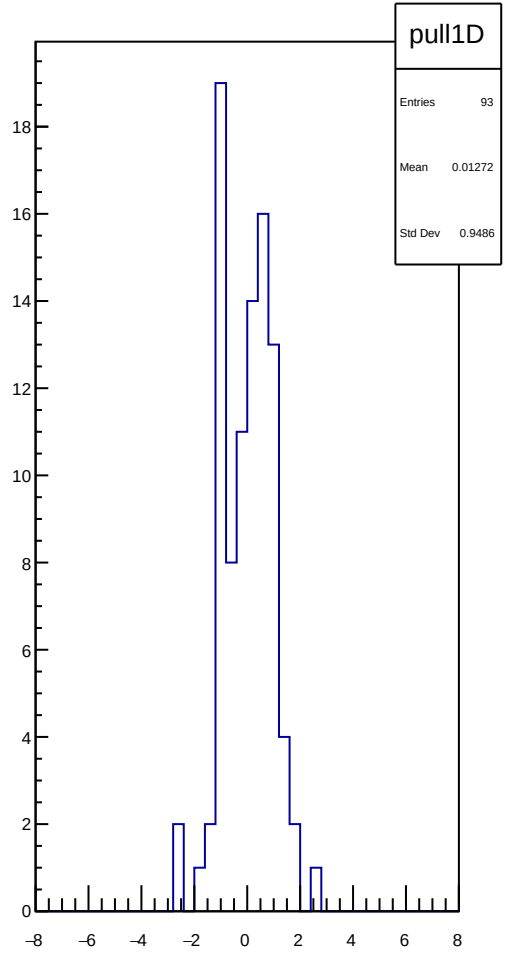

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 98.58 / 92
p0 1850 ± 1.36
1900
1880
1860
1840
1820
1800

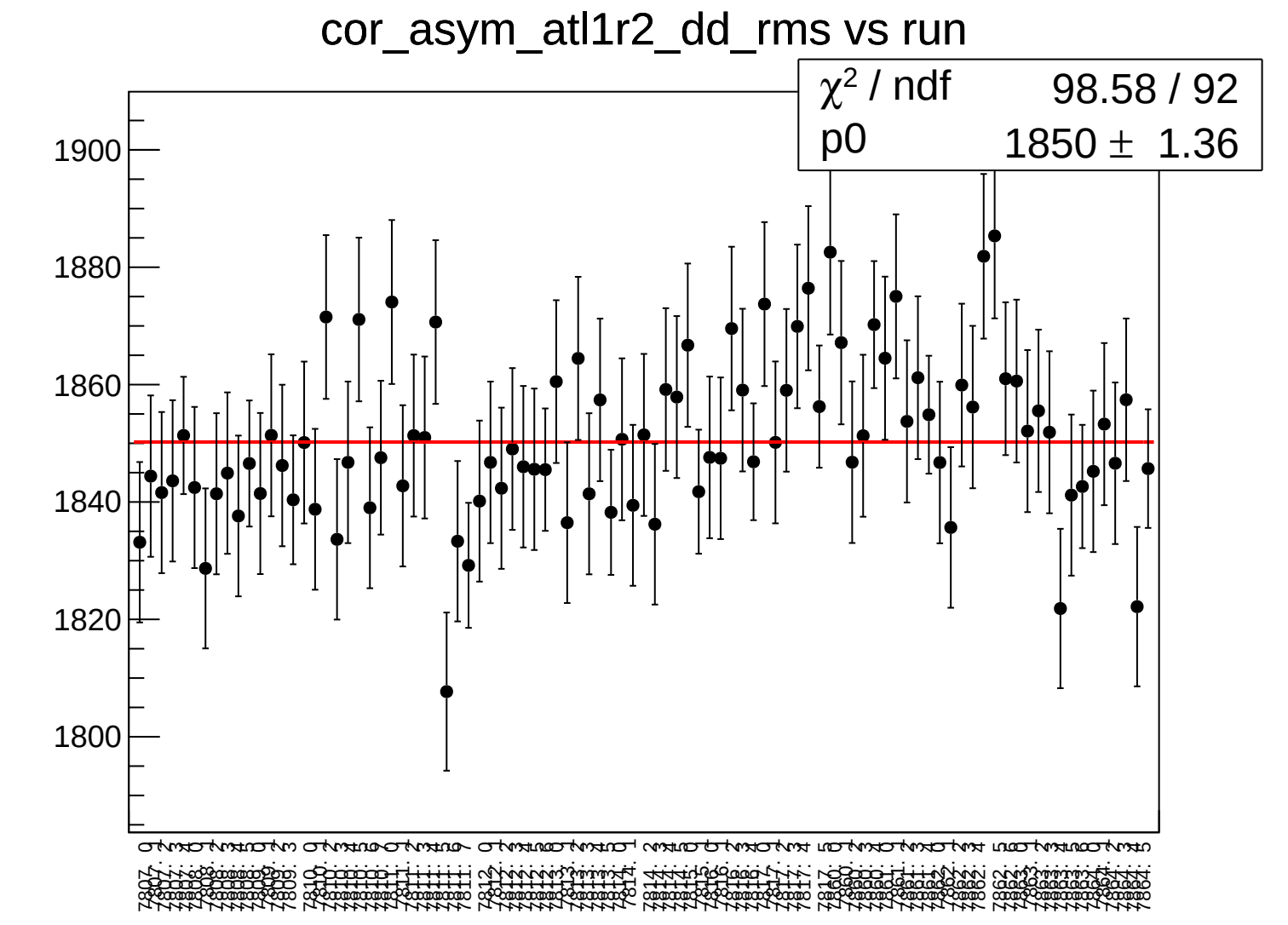

asym_atl1r2_dd_reg_correction_mean vs run
χ² / ndf 84.26 / 92
p0 −6816 ± 7403
×10³
pull
Entries 93
Mean −46.14
Std Dev 0

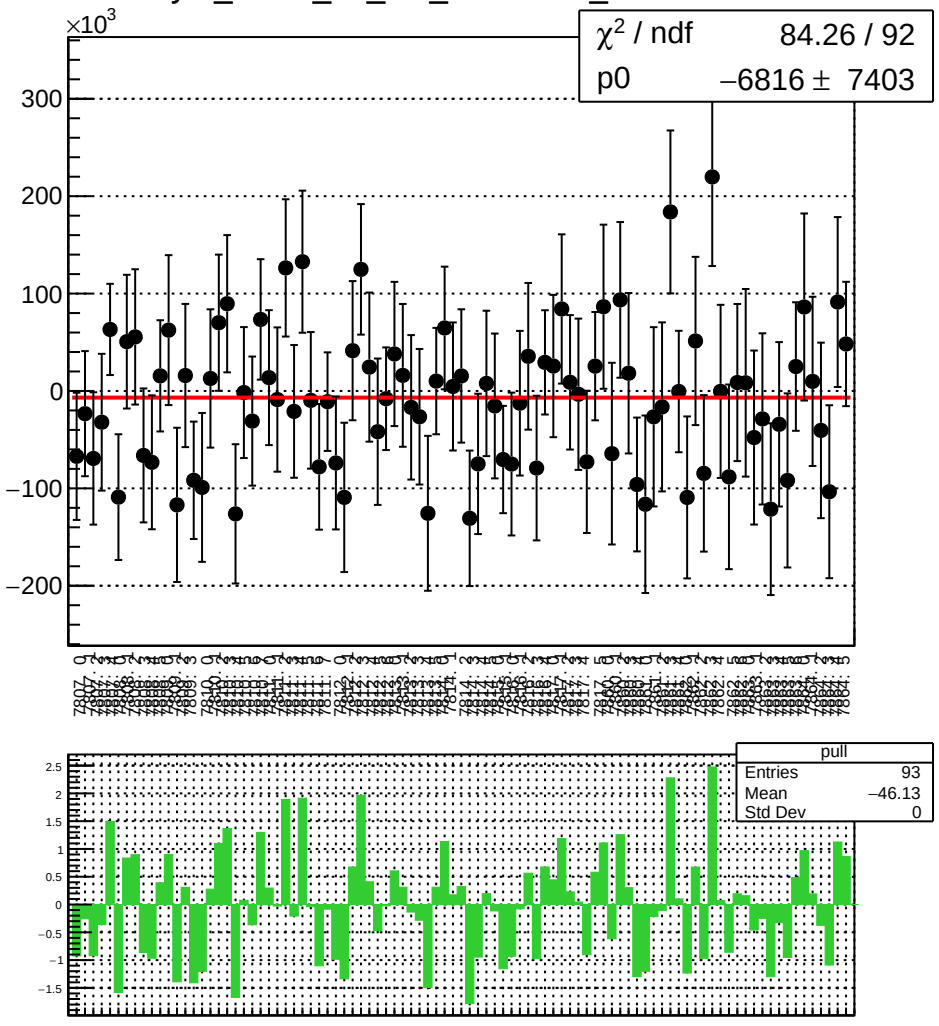

pull1D
Entries 93
Mean −0.01176
Std Dev 0.9518

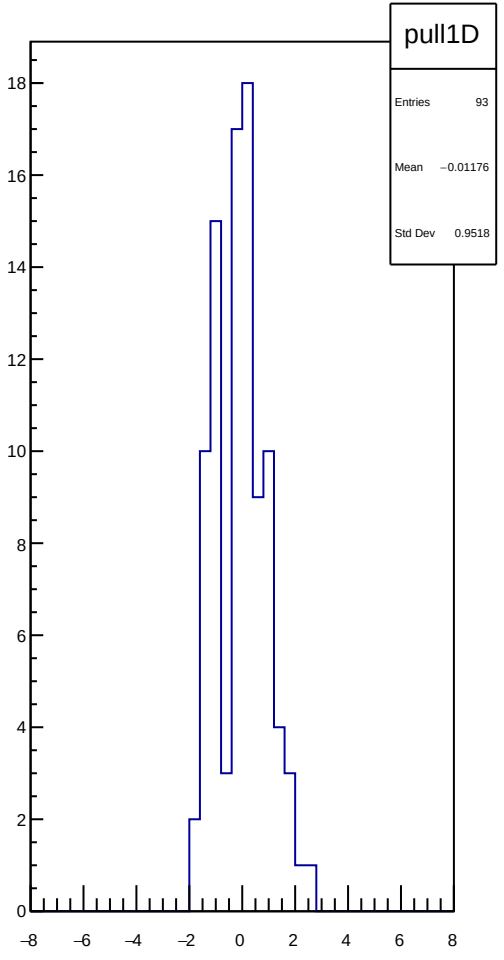

asym_atl1r2_dd_reg_correction_rms vs run
χ² / ndf 2.199e+04 / 92
p0 7081 ± 5.235
9500
9000
8500
8000
7500
7000
6500
6000

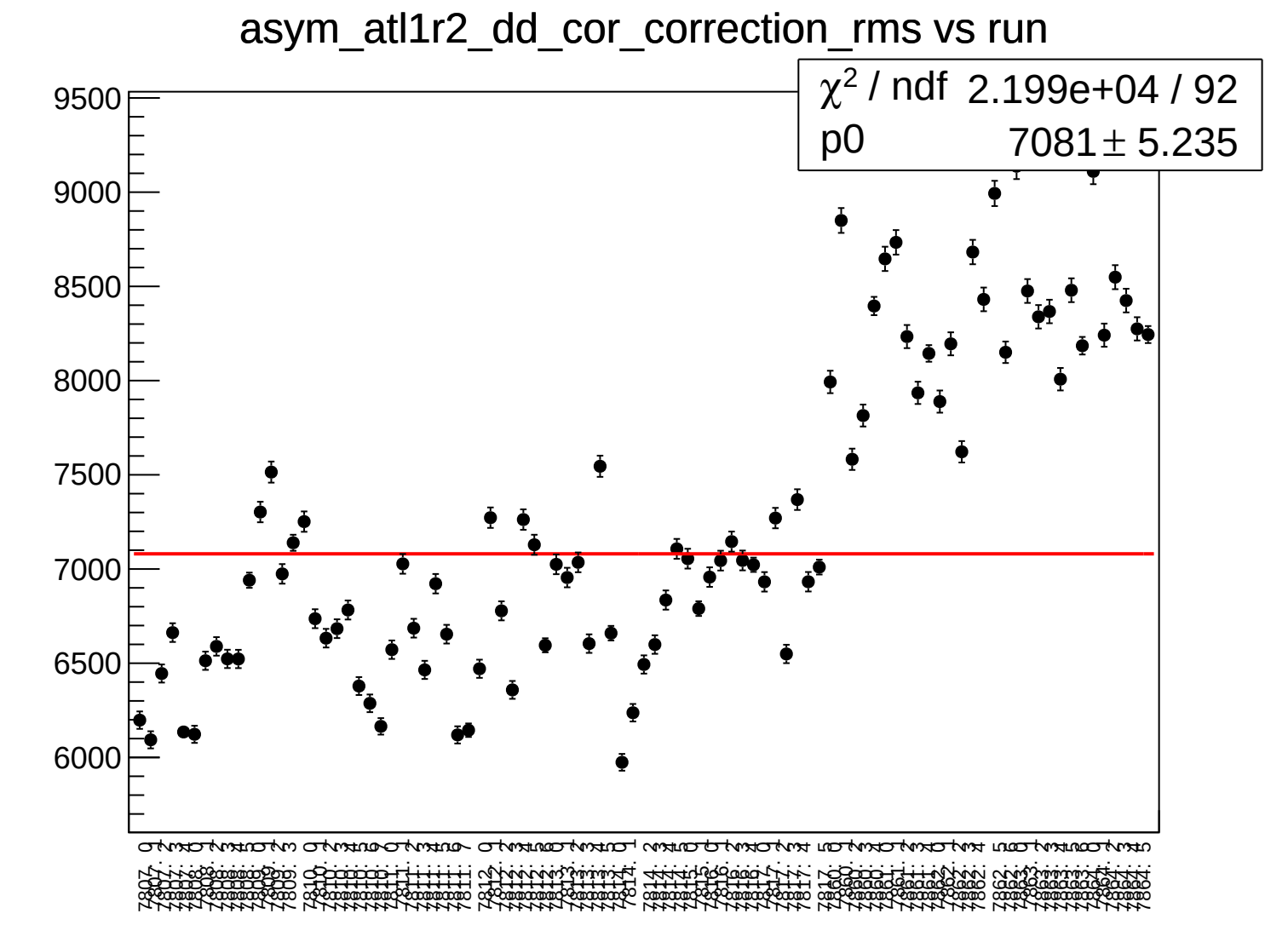

cor_asym_atl1r2_dd_mean vs run
χ² / ndf 83.7 / 92
p0 −2058 ± 1923
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean 139.3
Std Dev 0
2
1
0
−1
−2

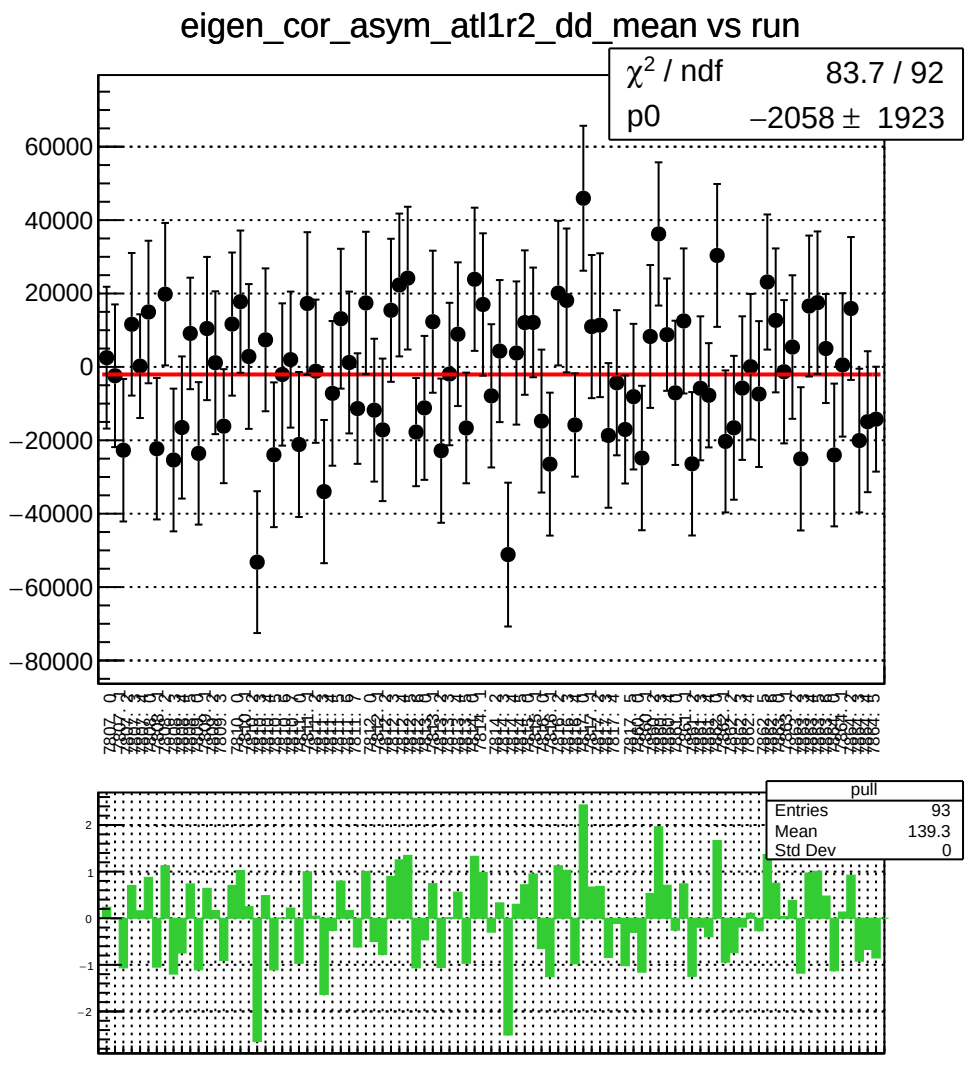

pull1D
Entries 93
Mean 0.01272
Std Dev 0.9486
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

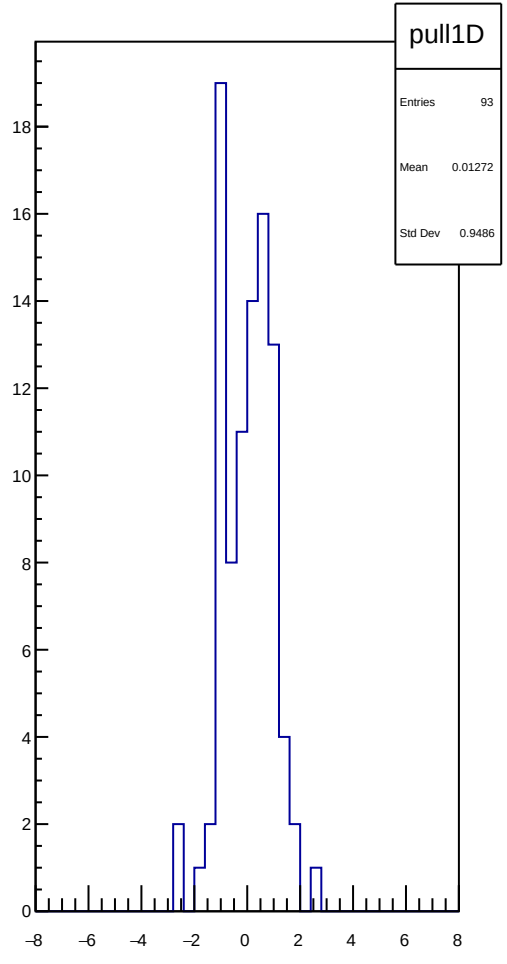

cor_asym_atl1r2_dd_rms vs run
χ² / ndf 98.58 / 92
p0 1850 ± 1.36
1900
1880
1860
1840
1820
1800

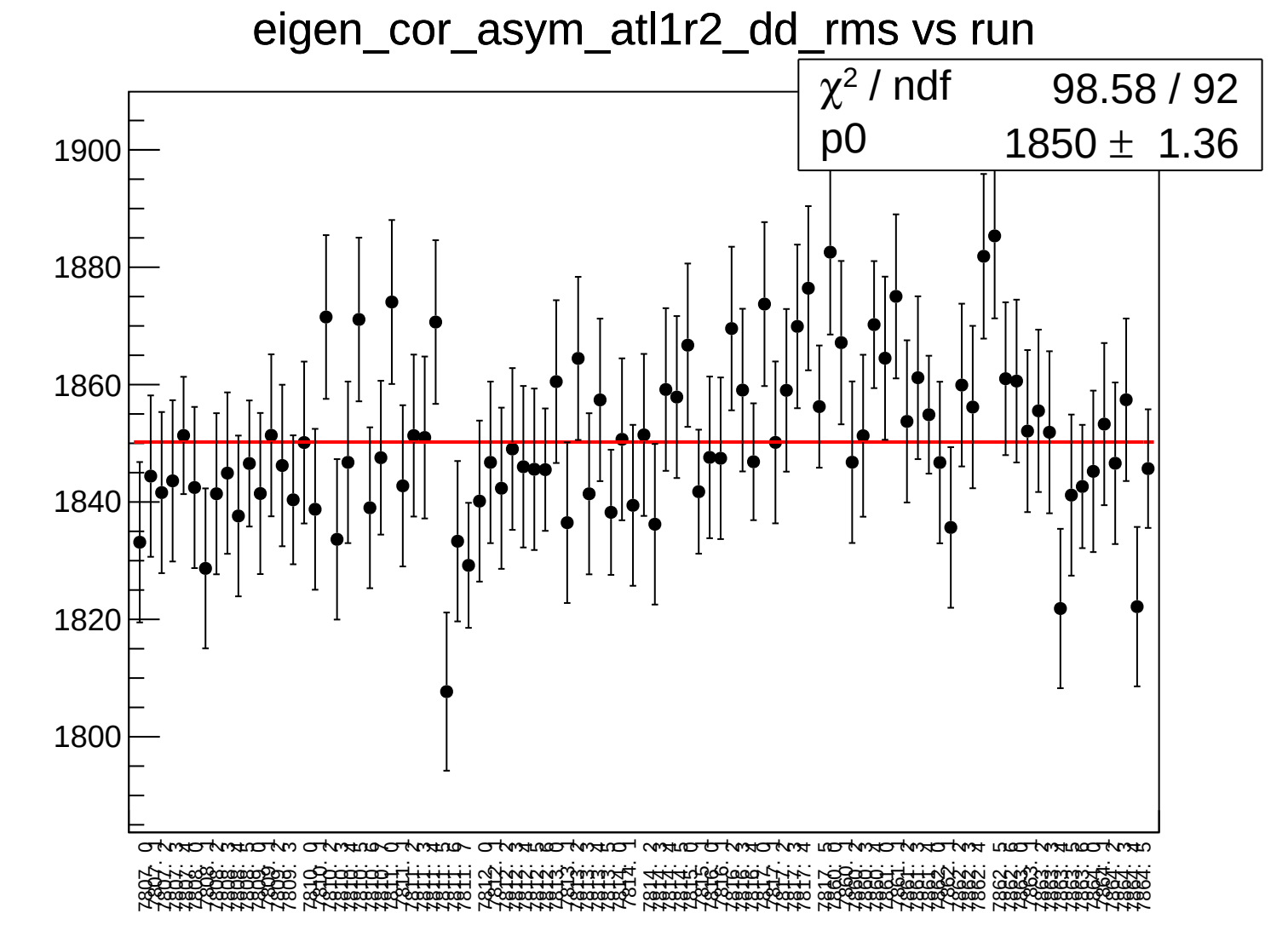

asym_atl1r2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 84.26 / 92
p0 −6816 ± 7403
300
200
100
0
−100
−200
pull
Entries 93
Mean −46.13
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

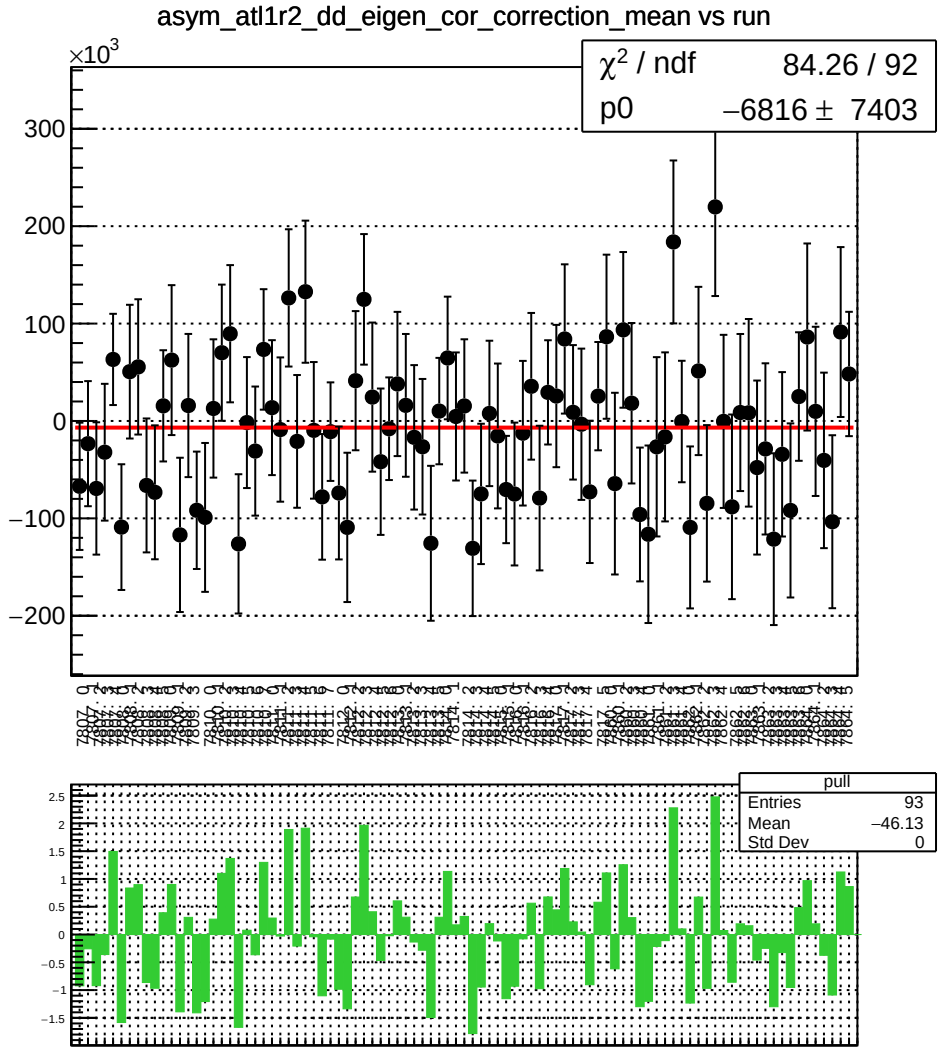

pull1D
Entries 93
Mean −0.01176
Std Dev 0.9518
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

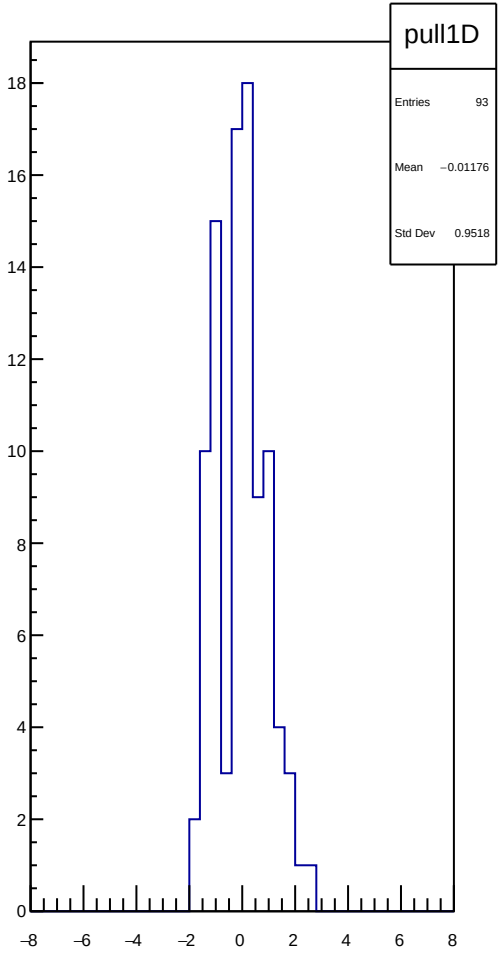

asym_atl1r2_dd_cor_correction_rms vs run
χ² / ndf 2.199e+04 / 92
p0 7081 ± 5.235
9500
9000
8500
8000
7500
7000
6500
6000

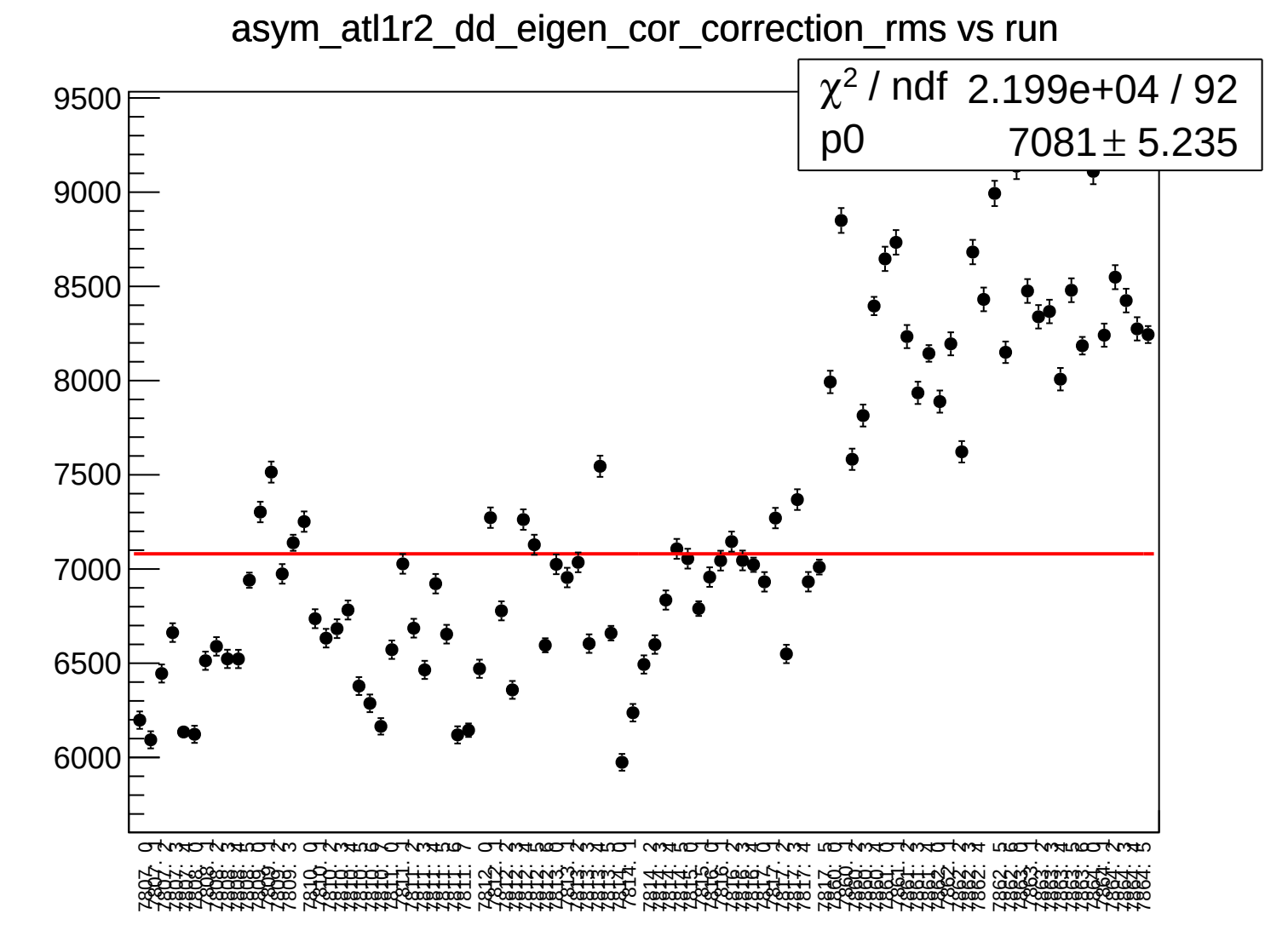

eigen_cor_asym_atl1r2_dd_mean vs run
χ² / ndf 83.7 / 92
p0 −2058 ± 1923
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean 139.3
Std Dev 0
2
1
0
−1
−2

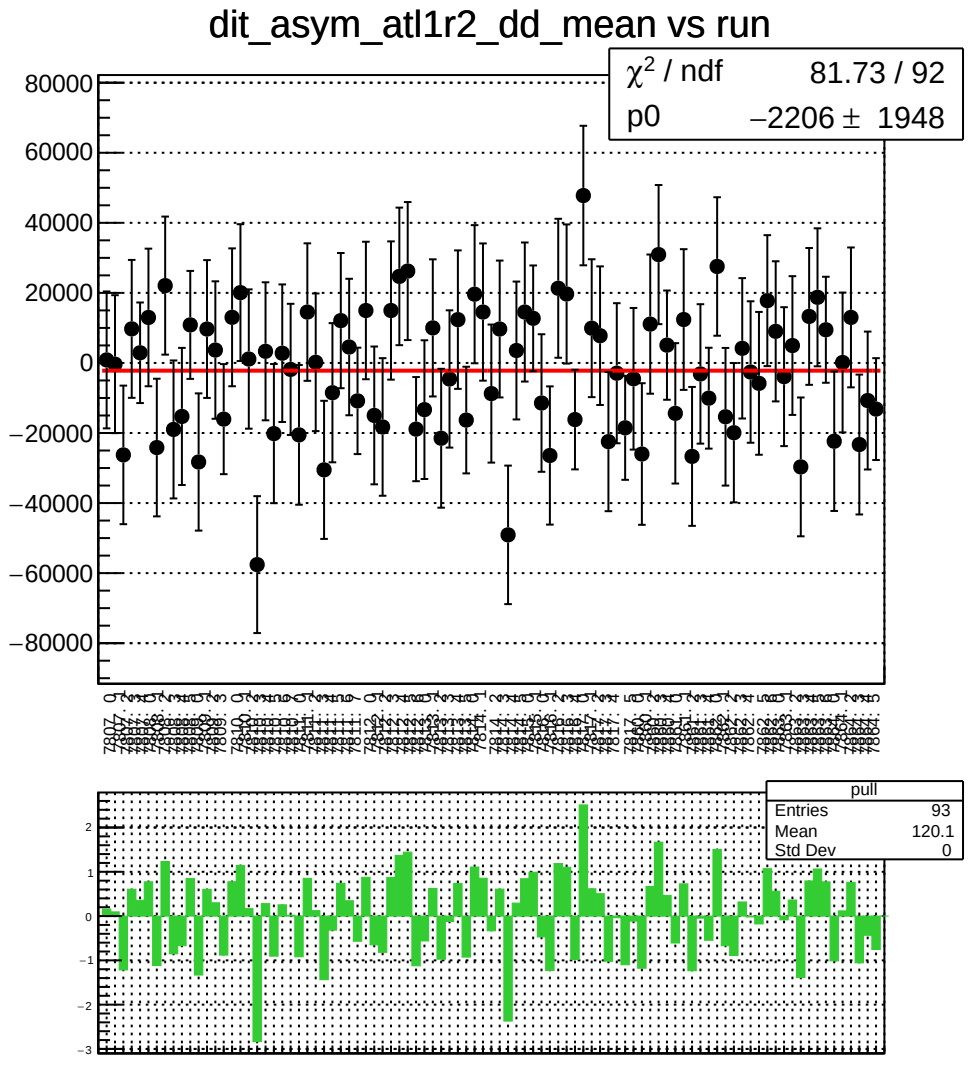

pull1D
Entries 93
Mean 0.01272
Std Dev 0.9486
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

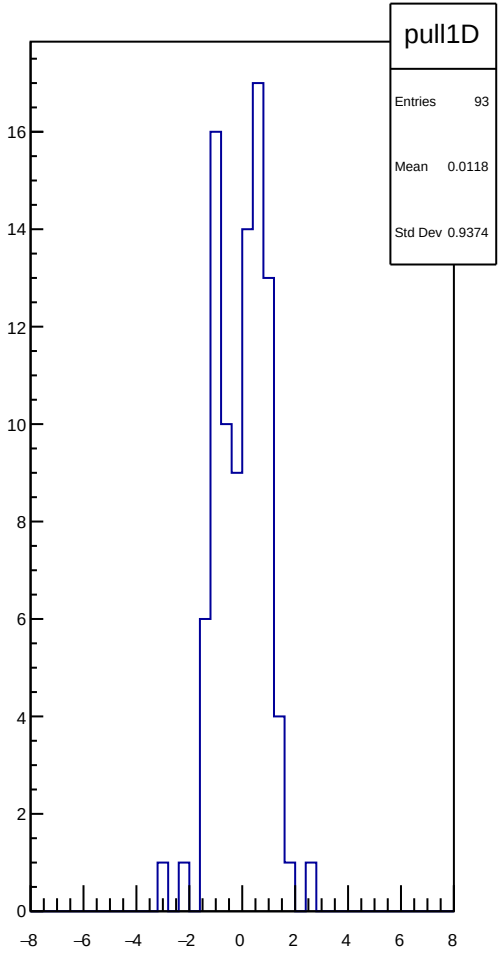

eigen_cor_asym_atl1r2_dd_rms vs run
χ^2 / ndf 98.58 / 92
p0 1850 ± 1.36
1900
1880
1860
1840
1820
1800

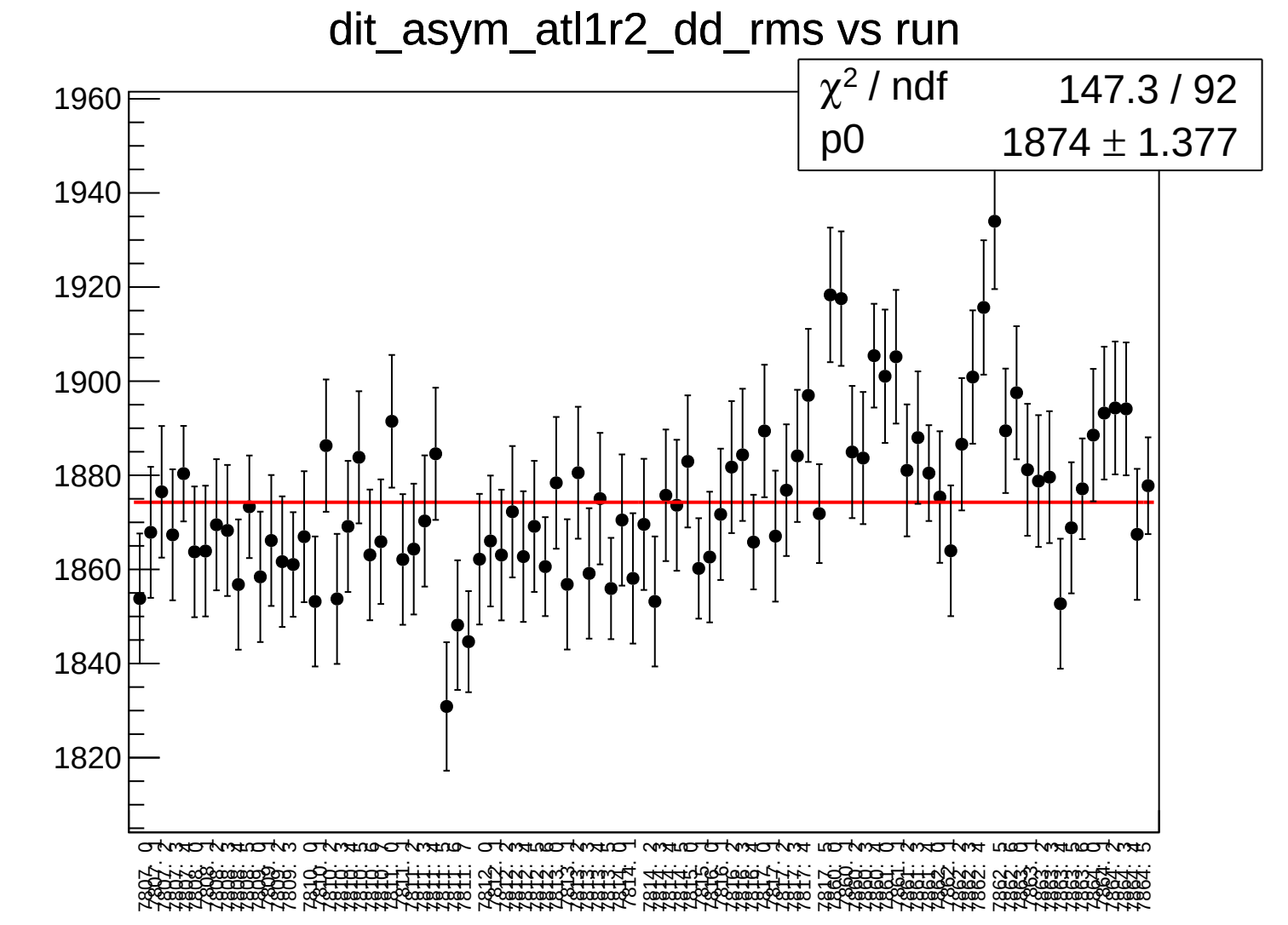

asym_atl1r2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 84.26 / 92
p0 −6816 ± 7403
300
200
100
0
−100
−200
pull
Entries 93
Mean −46.13
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

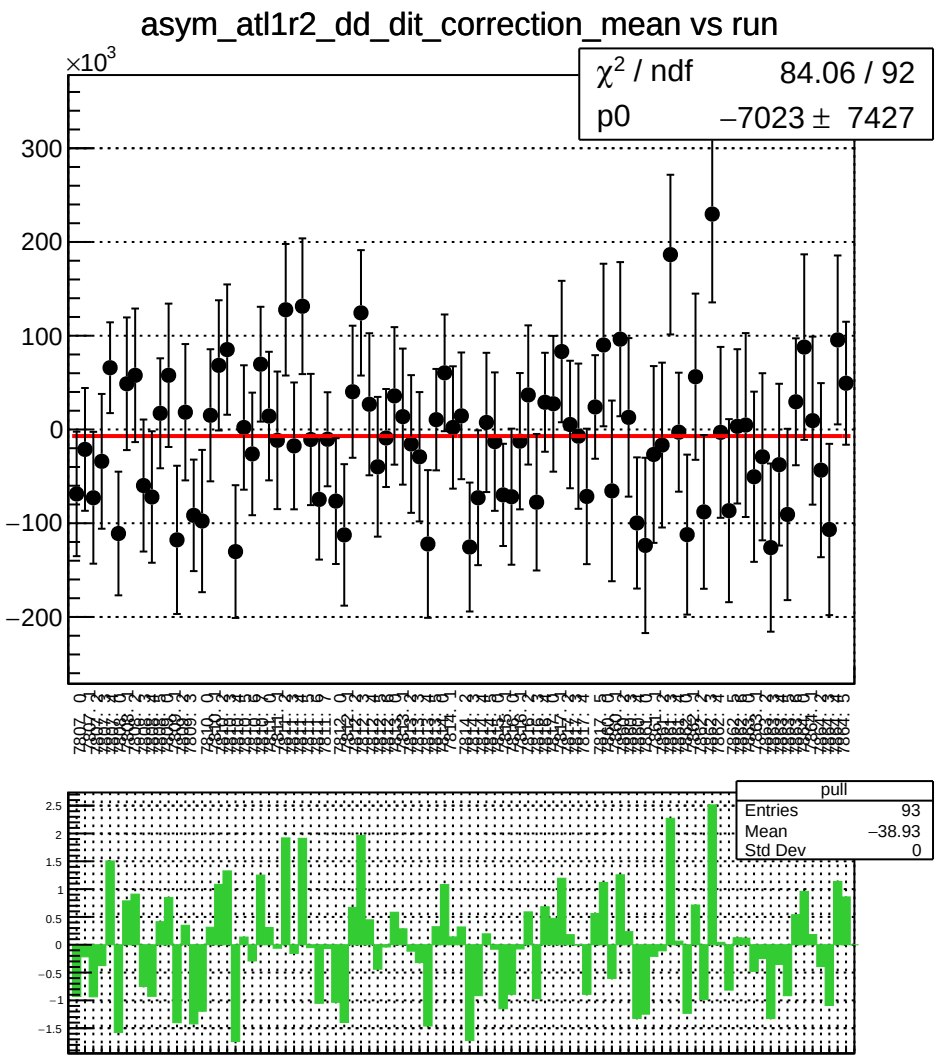

pull1D
Entries 93
Mean −0.01176
Std Dev 0.9518
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

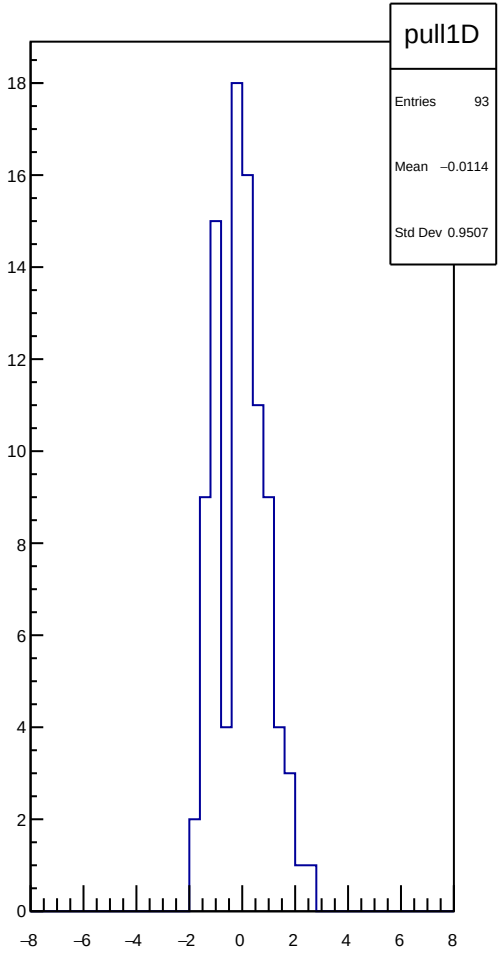

asym_atl1r2_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.199e+04 / 92
p0 7081 ± 5.235
9500
9000
8500
8000
7500
7000
6500
6000

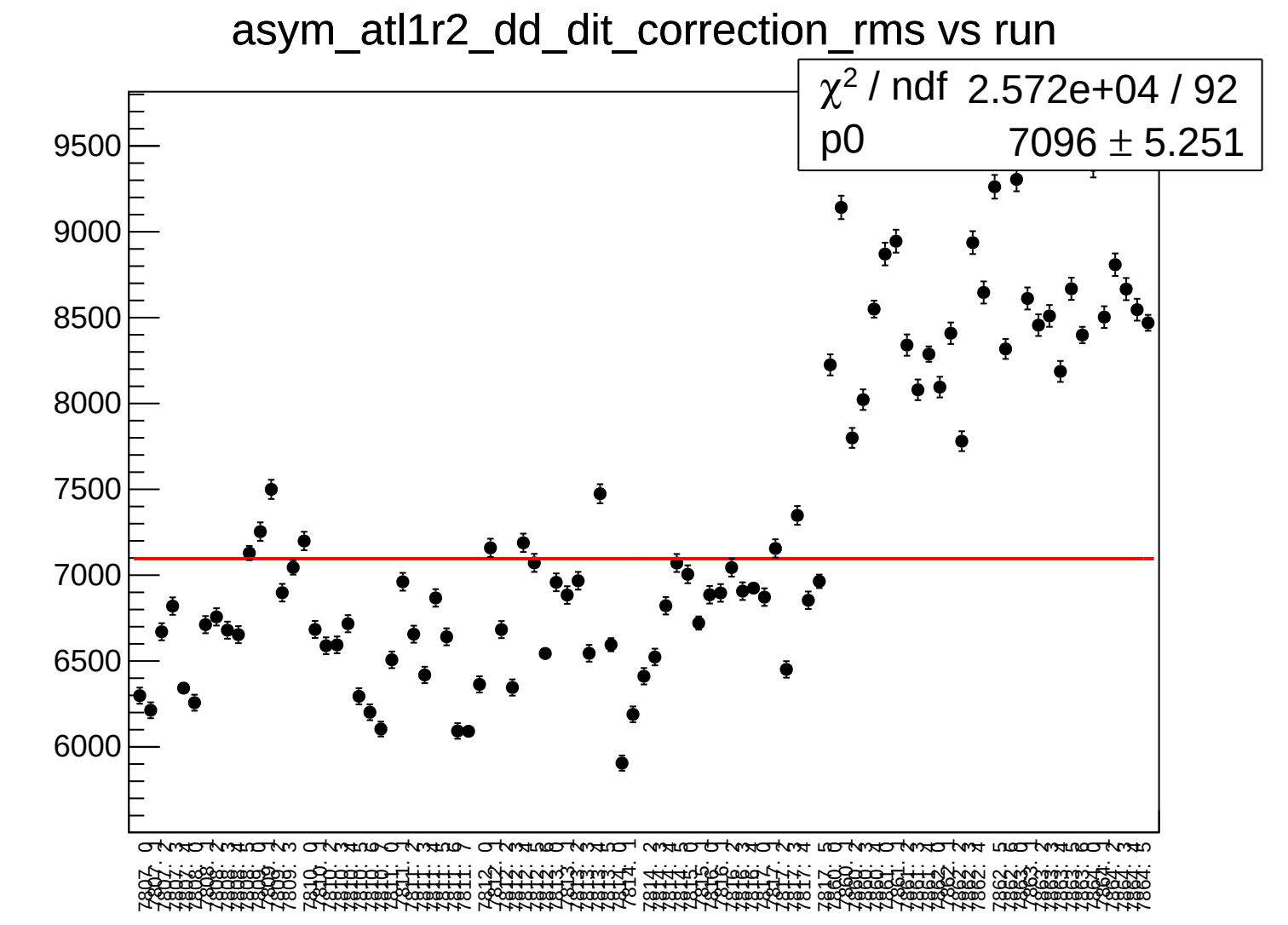

dit_asym_atl1r2_dd_mean vs run
χ² / ndf 81.73 / 92
p0 −2206 ± 1948
pull
Entries 93
Mean 120.1
Std Dev 0

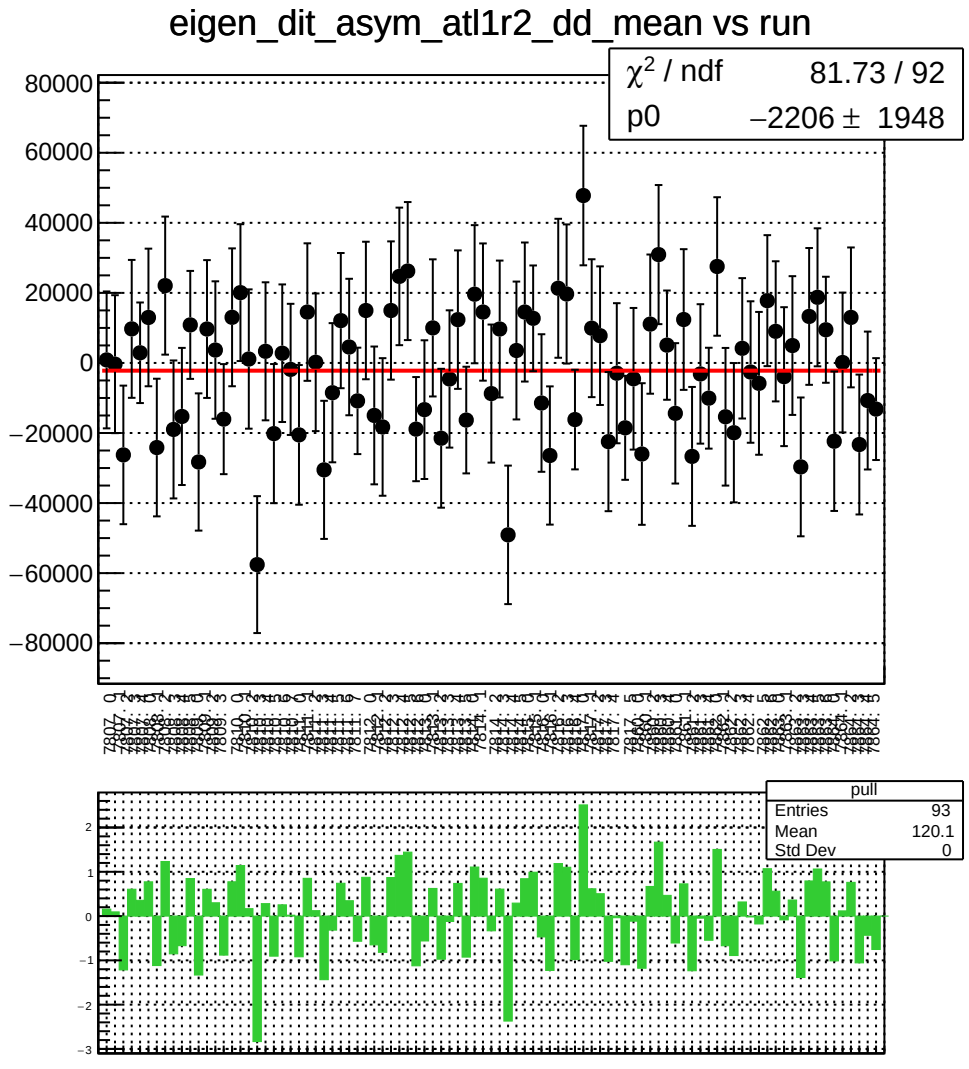

pull1D
Entries 93
Mean 0.0118
Std Dev 0.9374

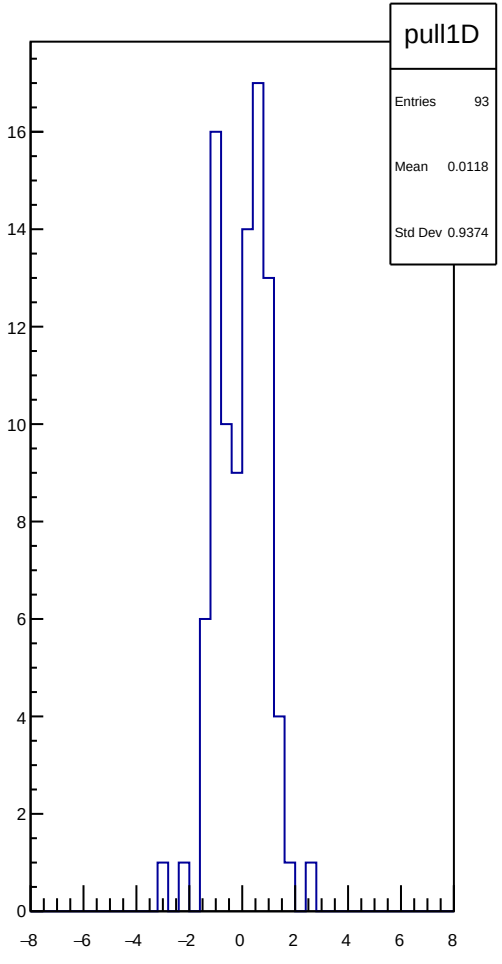

dit_asym_atl1r2_dd_rms vs run
χ^2 / ndf 147.3 / 92
p0 1874 ± 1.377
1960
1940
1920
1900
1880
1860
1840
1820

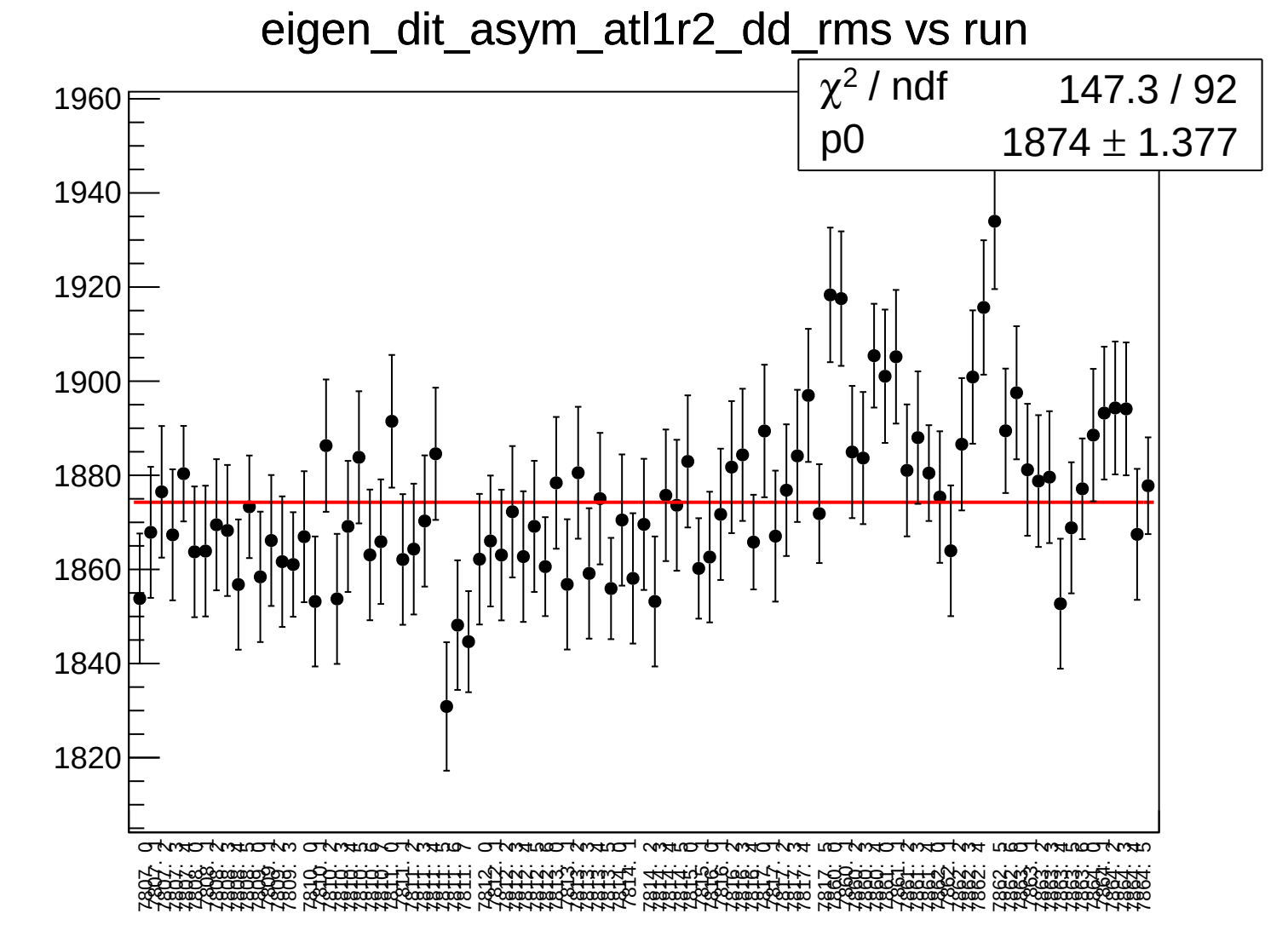

asym_atl1r2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 84.06 / 92
p0 −7023 ± 7427
300
200
100
0
−100
−200
pull
Entries 93
Mean −38.93
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

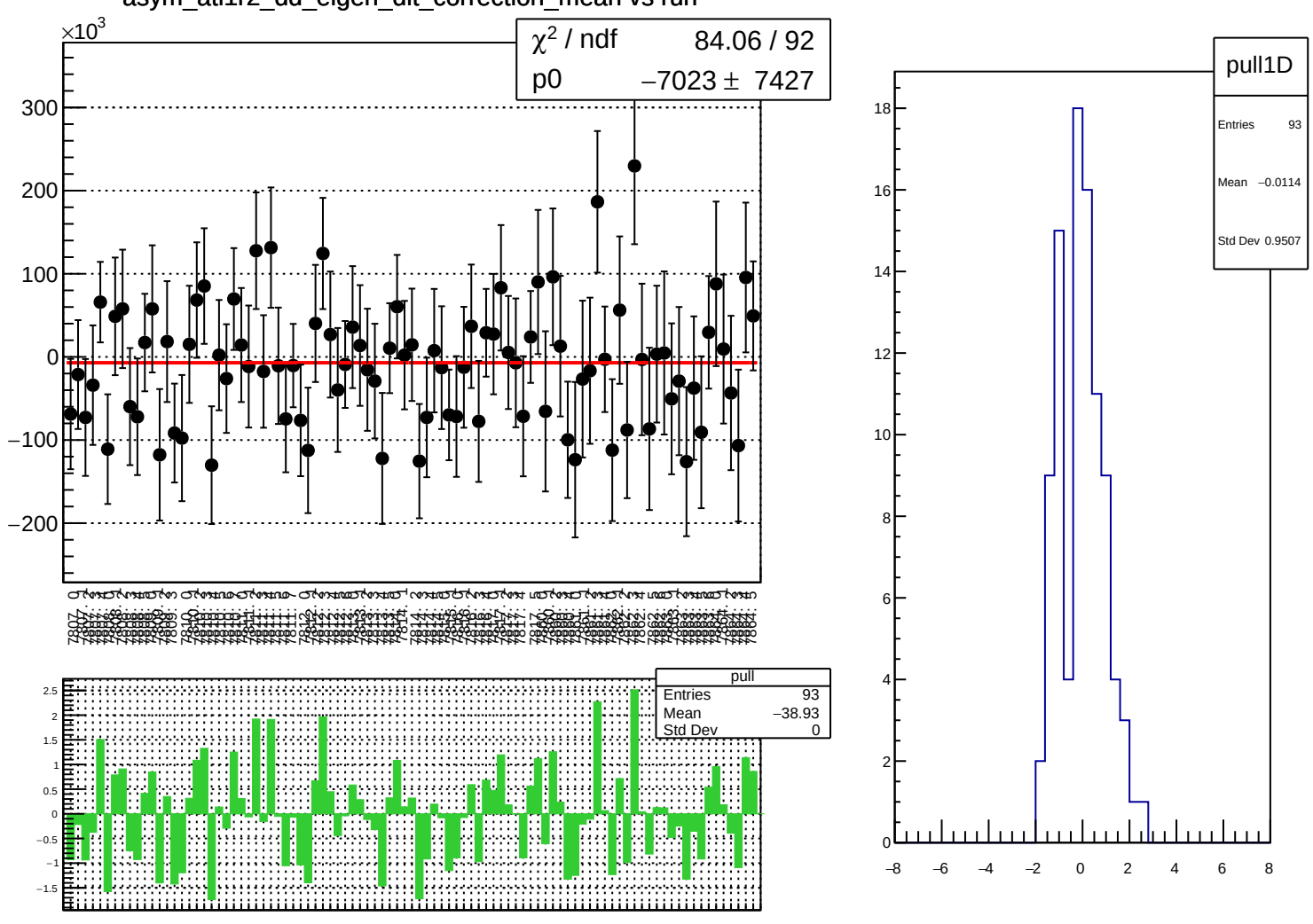

pull1D
Entries 93
Mean −0.0114
Std Dev 0.9507
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

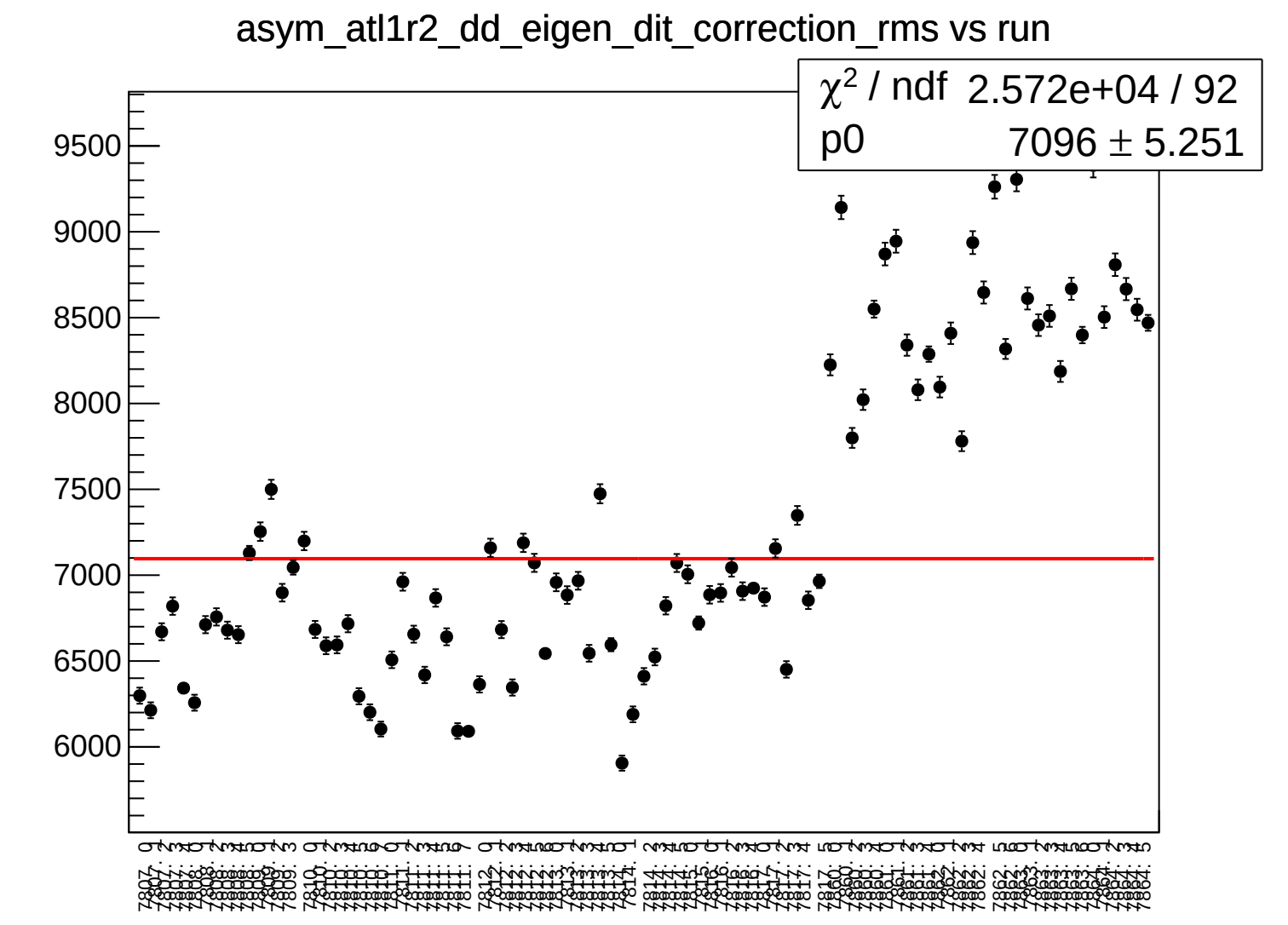

asym_atl1r2_dd_dit_correction_rms vs run
χ² / ndf 2.572e+04 / 92
p0 7096 ± 5.251
9500
9000
8500
8000
7500
7000
6500
6000

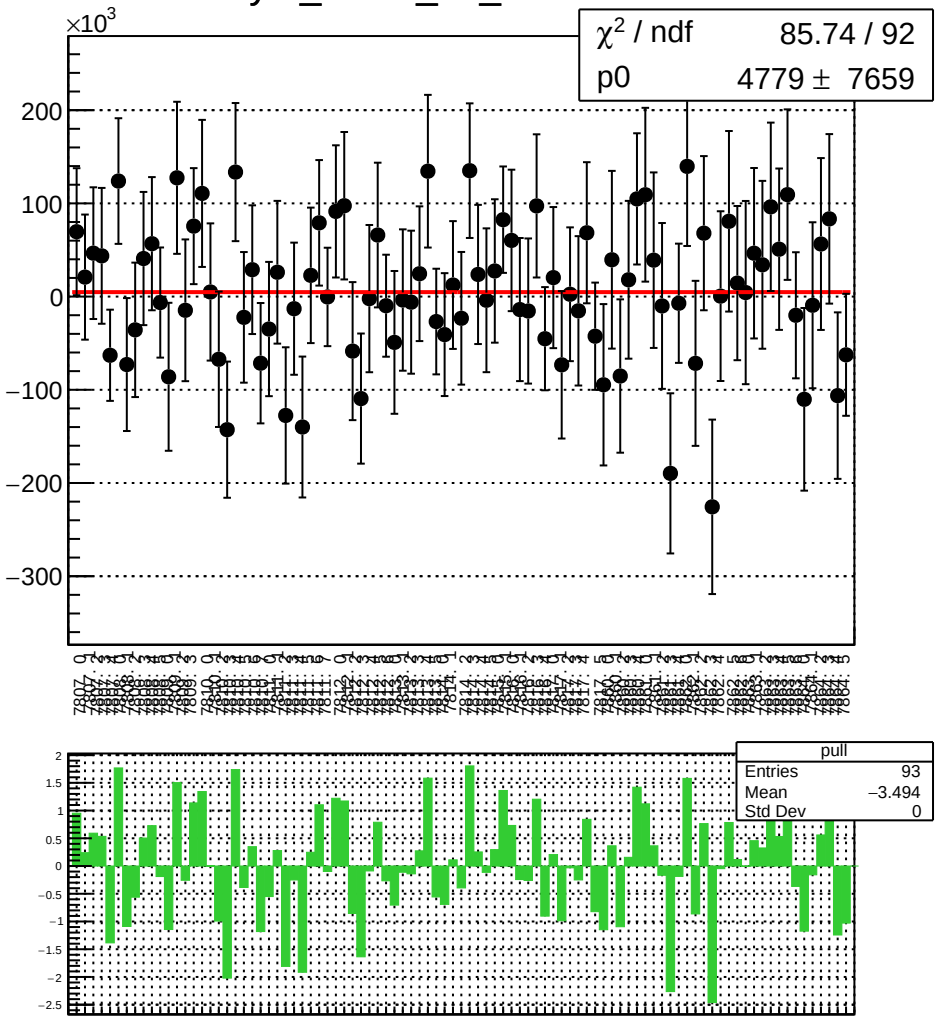

eigen_dit_asym_atl1r2_dd_mean vs run
χ² / ndf 81.73 / 92
p0 −2206 ± 1948
pull
Entries 93
Mean 120.1
Std Dev 0

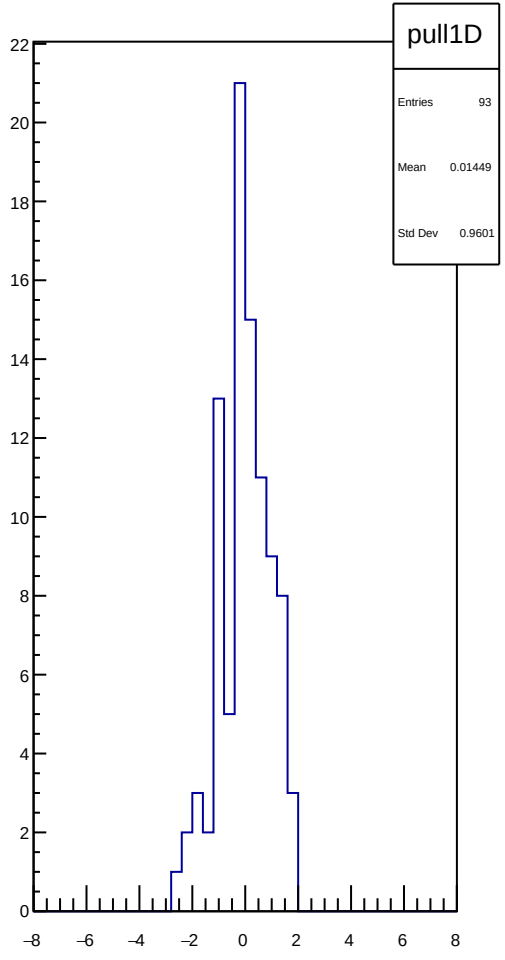

pull1D
Entries 93
Mean 0.0118
Std Dev 0.9374

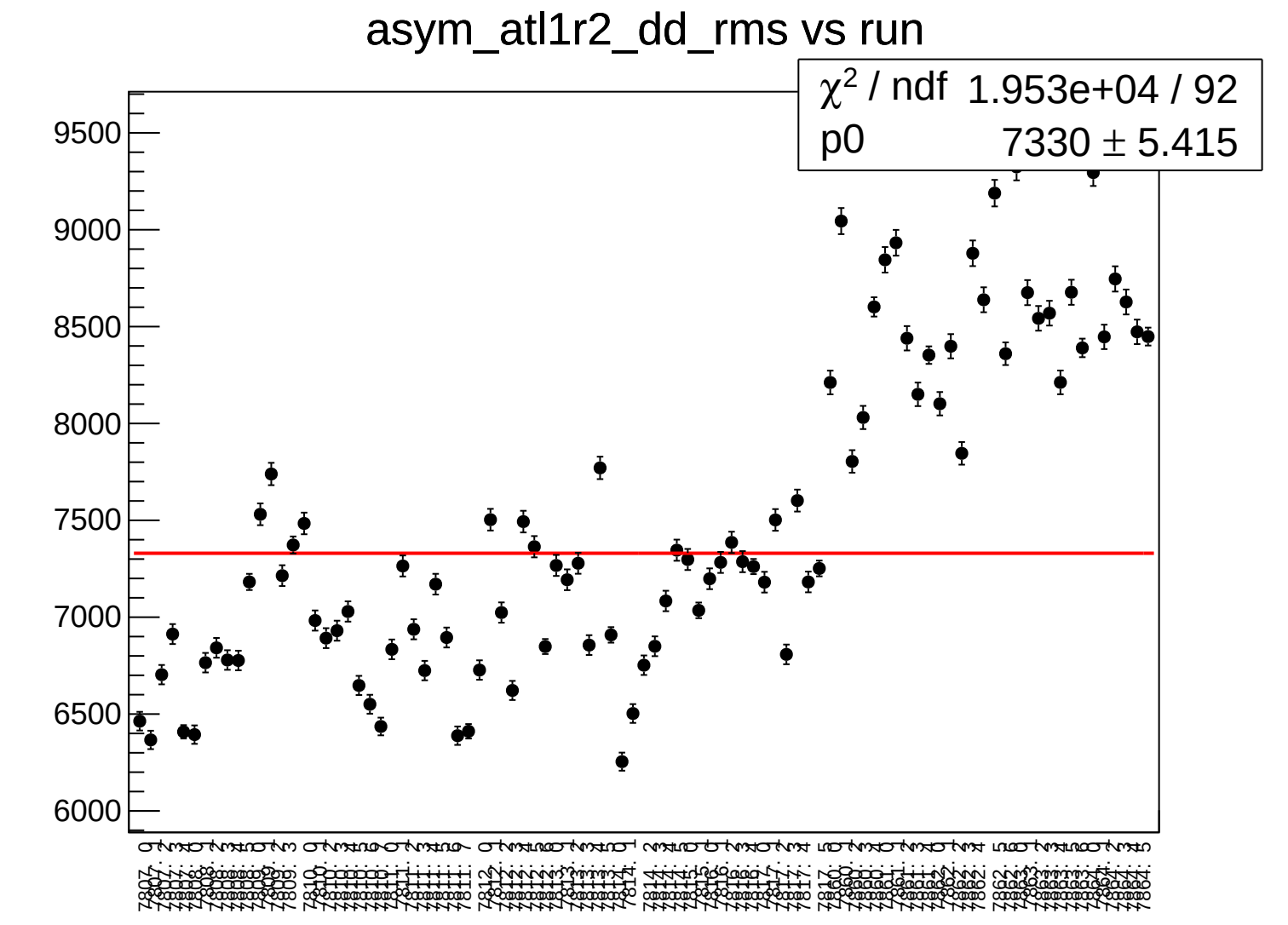

eigen_dit_asym_atl1r2_dd_rms vs run
χ^2 / ndf 147.3 / 92
p0 1874 ± 1.377
1960
1940
1920
1900
1880
1860
1840
1820

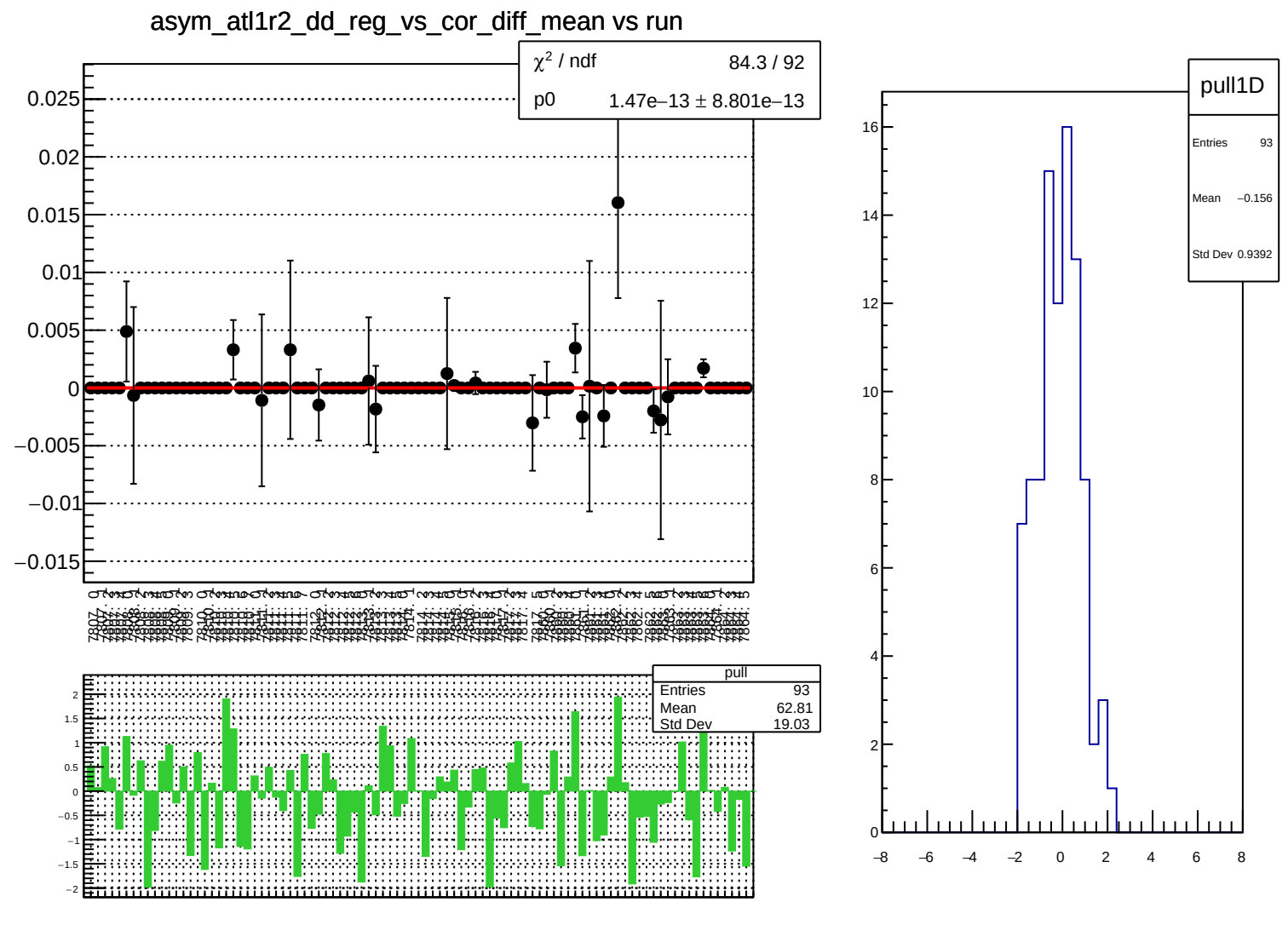

asym_atl1r2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 84.06 / 92
p0 −7023 ± 7427
300
200
100
0
−100
−200
pull
Entries 93
Mean −38.93
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 93
Mean −0.0114
Std Dev 0.9507
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

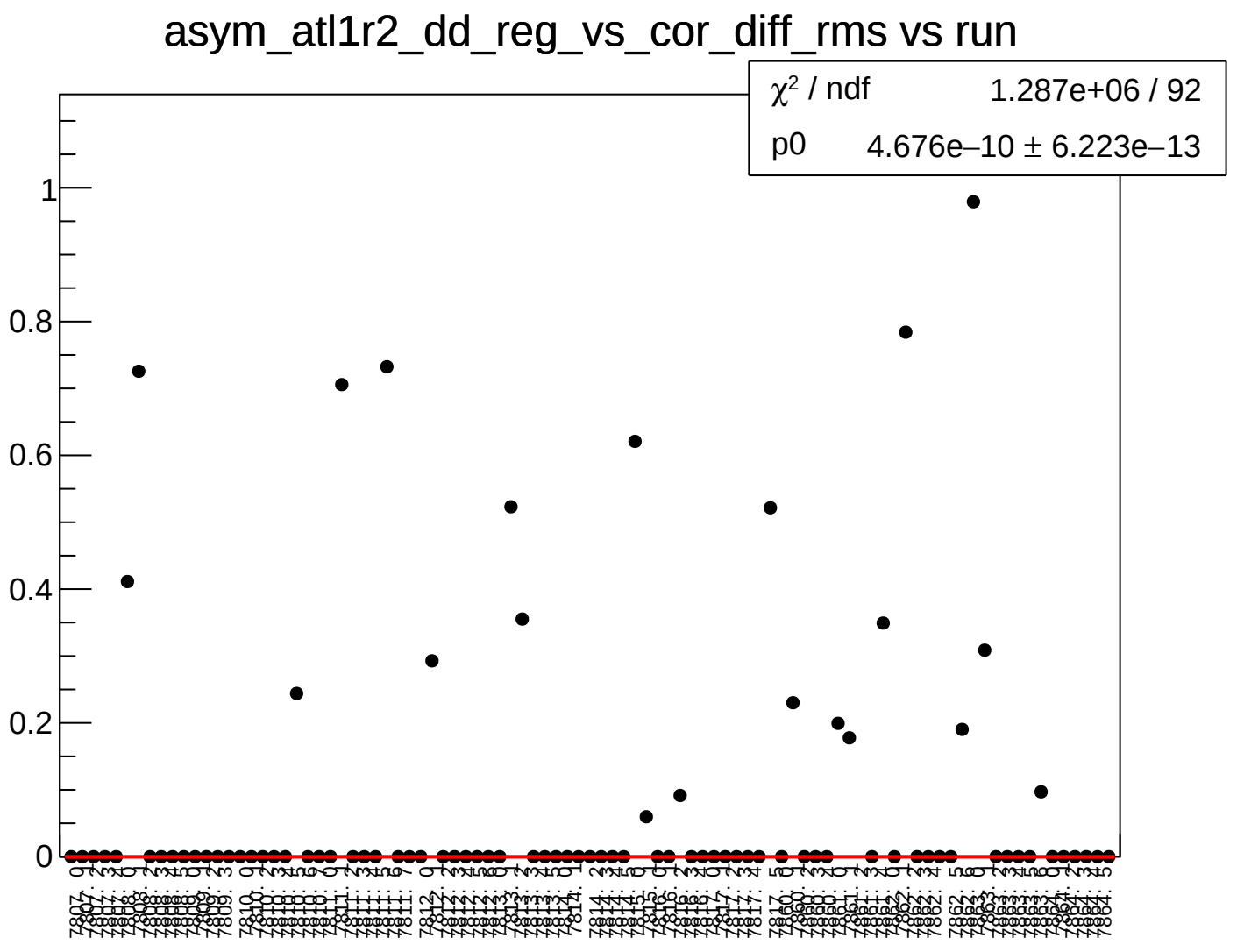

asym_atl1r2_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.572e+04 / 92
p0 7096 ± 5.251
9500
9000
8500
8000
7500
7000
6500
6000


asym_atl1r2_dd_mean vs run
×10^3
χ^2 / ndf 85.74 / 92
p0 4779 ± 7659
200
100
0
−100
−200
−300
pull
Entries 93
Mean −3.494
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

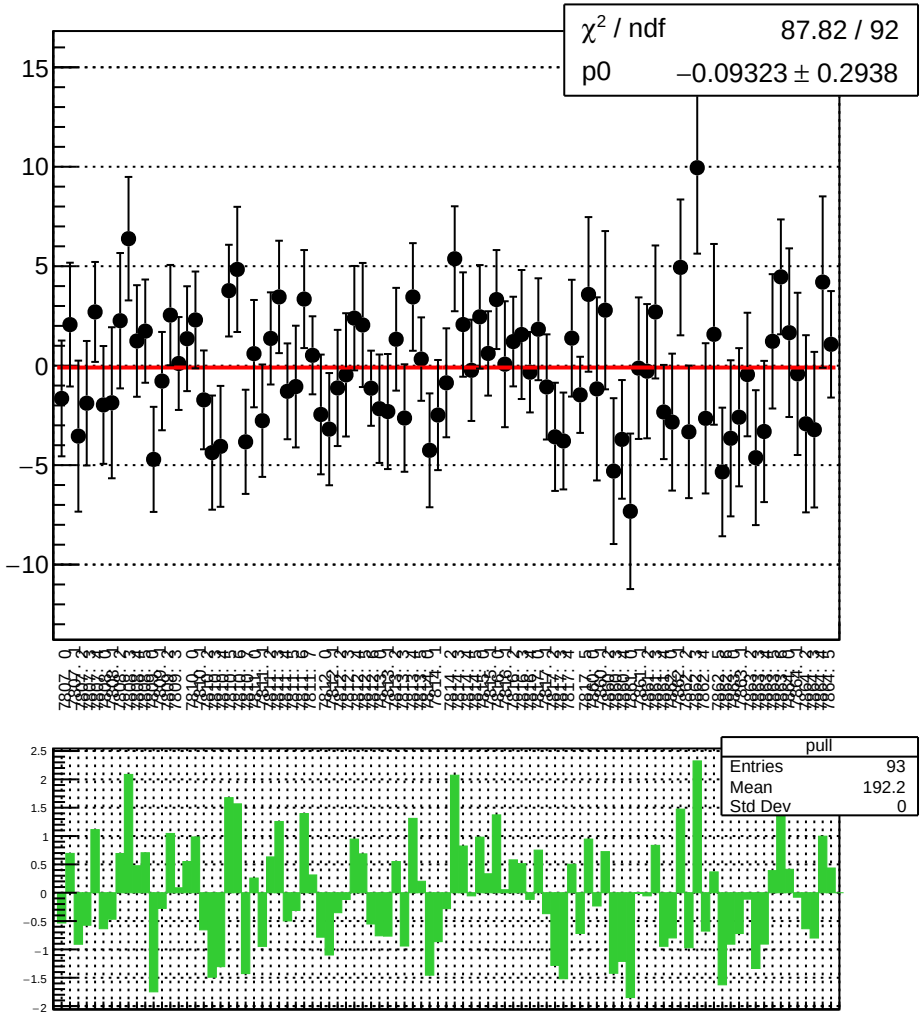

pull1D
Entries 93
Mean 0.01449
Std Dev 0.9601
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

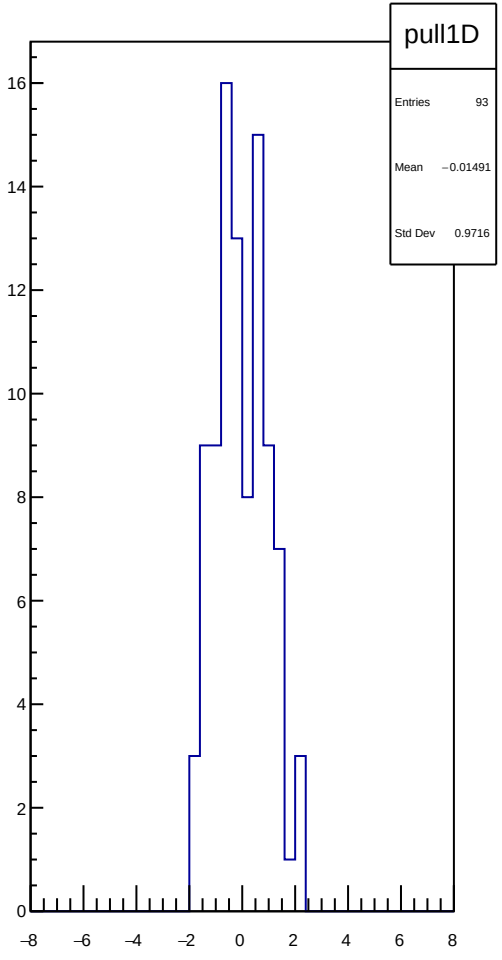

asym_atl1r2_dd_rms vs run
χ^2 / ndf 1.953e+04 / 92
p0 7330 ± 5.415
9500
9000
8500
8000
7500
7000
6500
6000

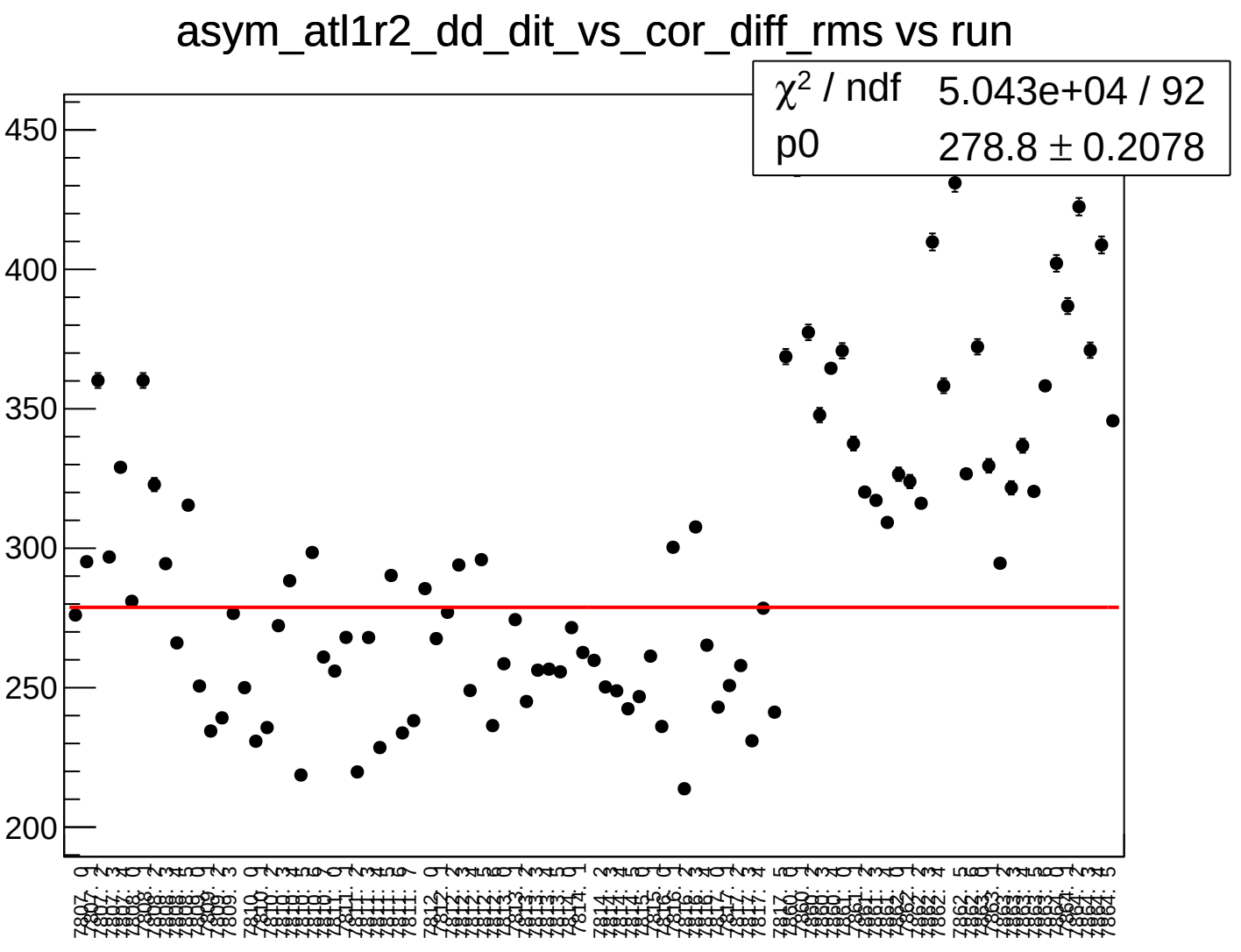

asym_atl1r2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 84.3 / 92
p0 1.47e−13 ± 8.801e−13
0.025
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 93
Mean 62.81
Std Dev 19.03
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean −0.156
Std Dev 0.9392
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

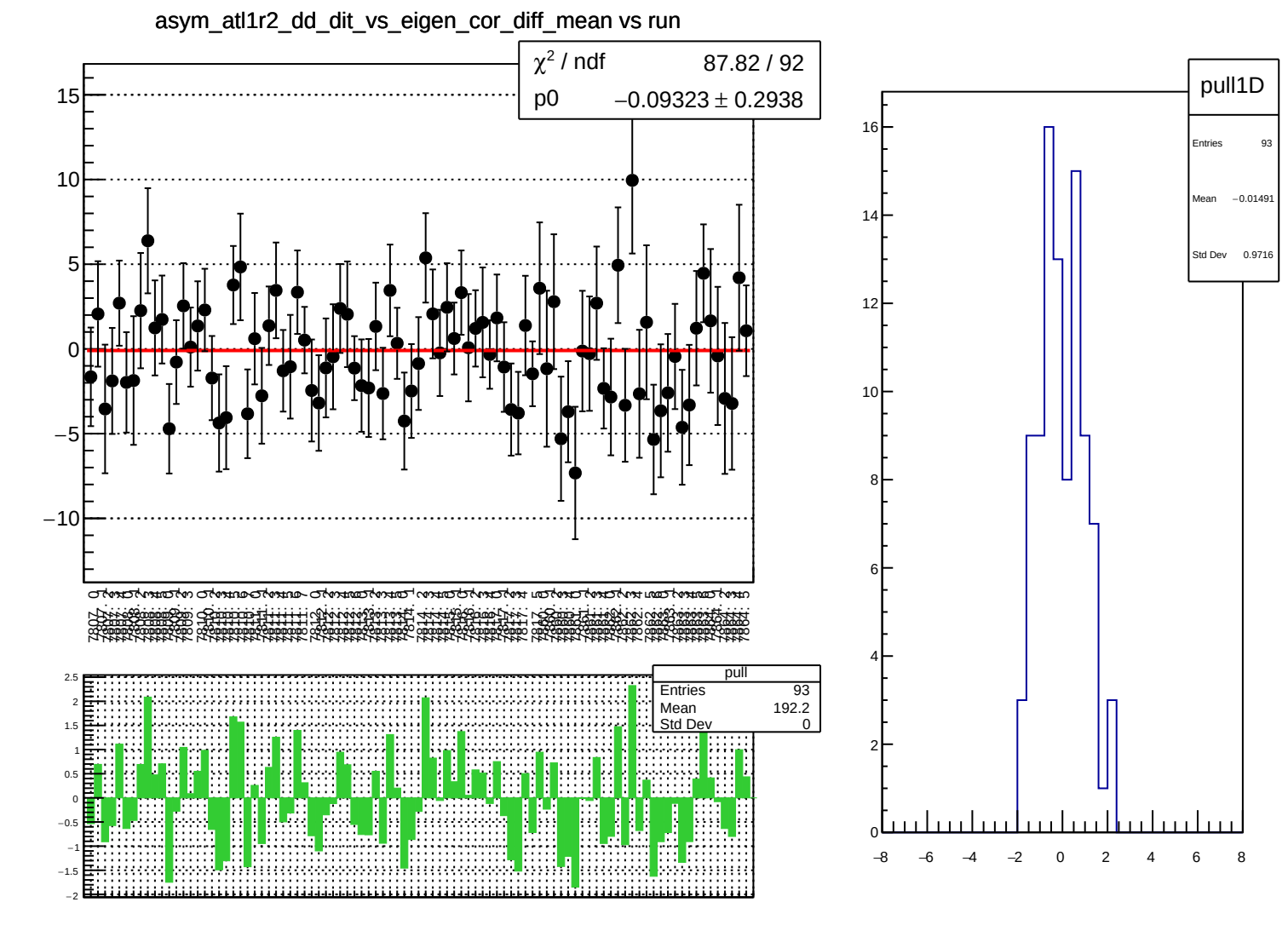

asym_atl1r2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.287e+06 / 92
p0 4.676e−10 ± 6.223e−13
1
0.8
0.6
0.4
0.2
0

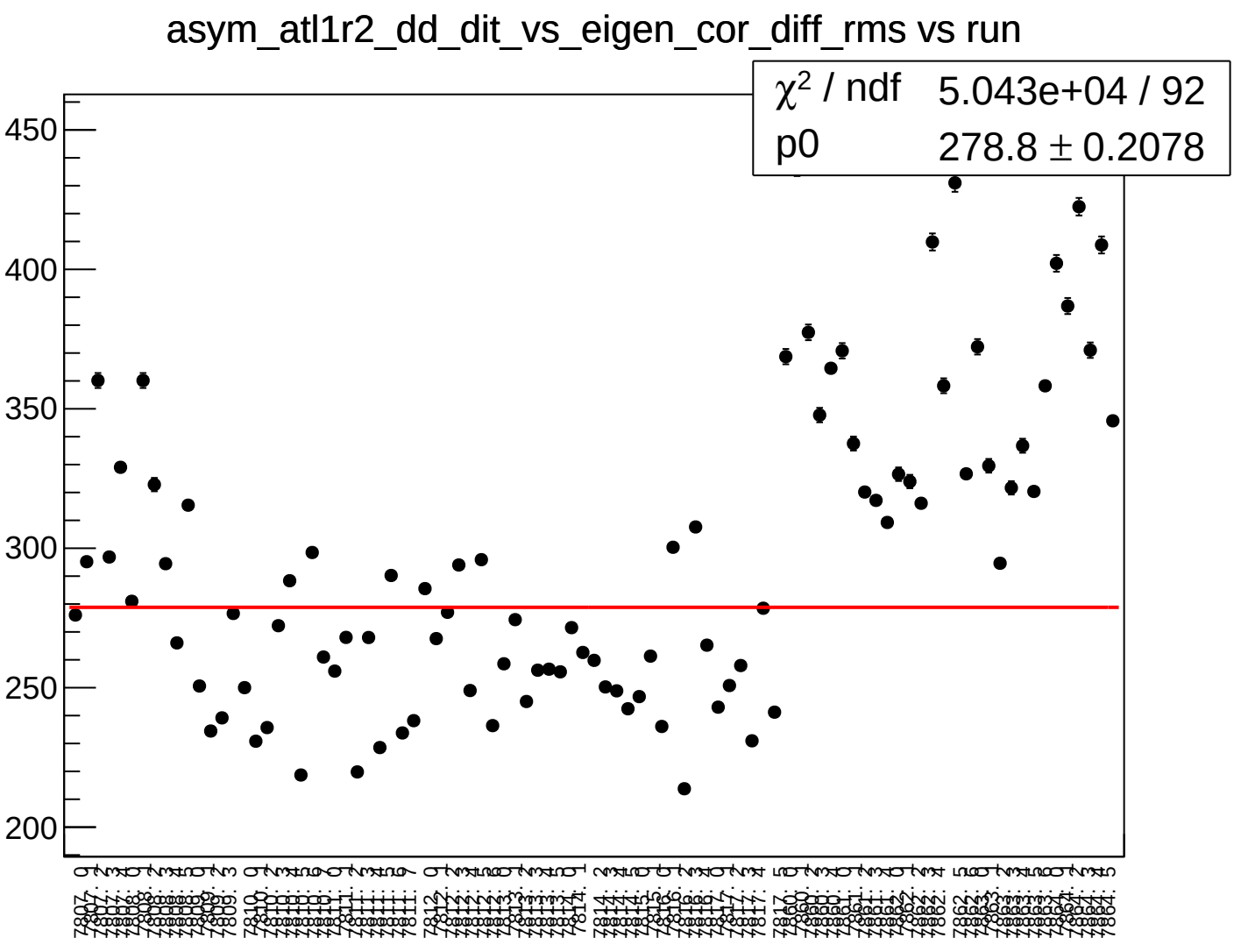
asym_atl1r2_dd_dit_vs_cor_diff_mean vs run

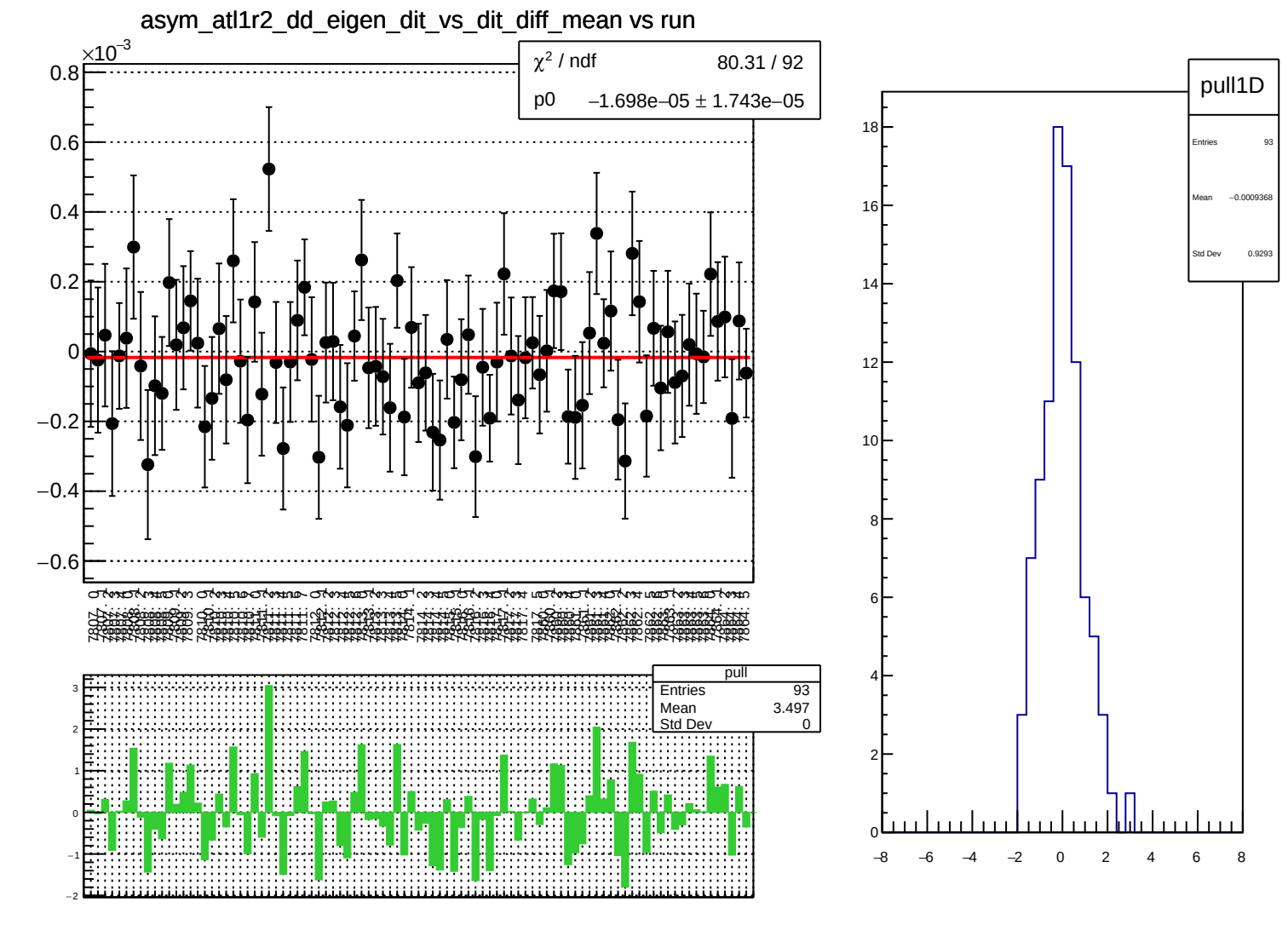


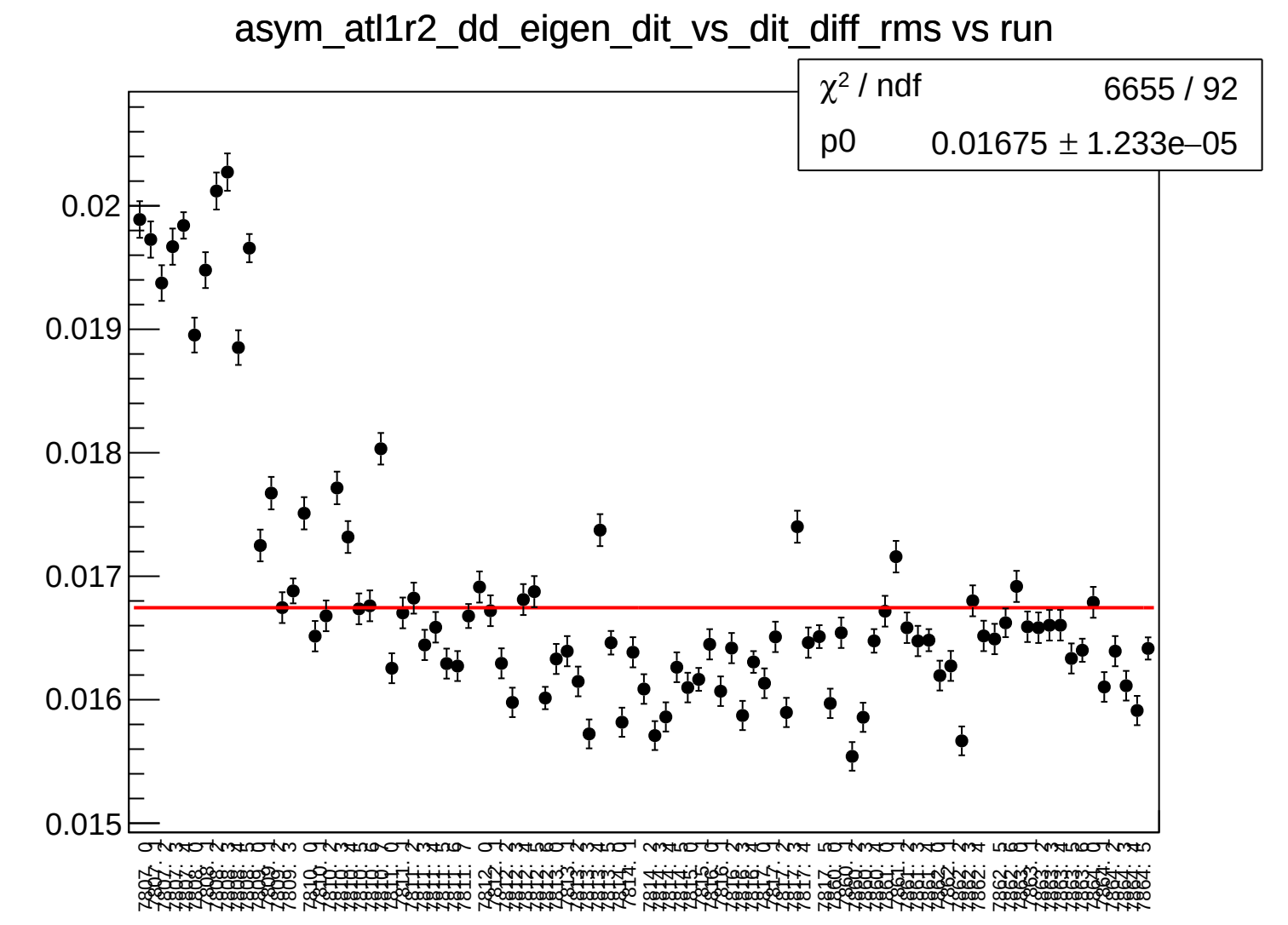


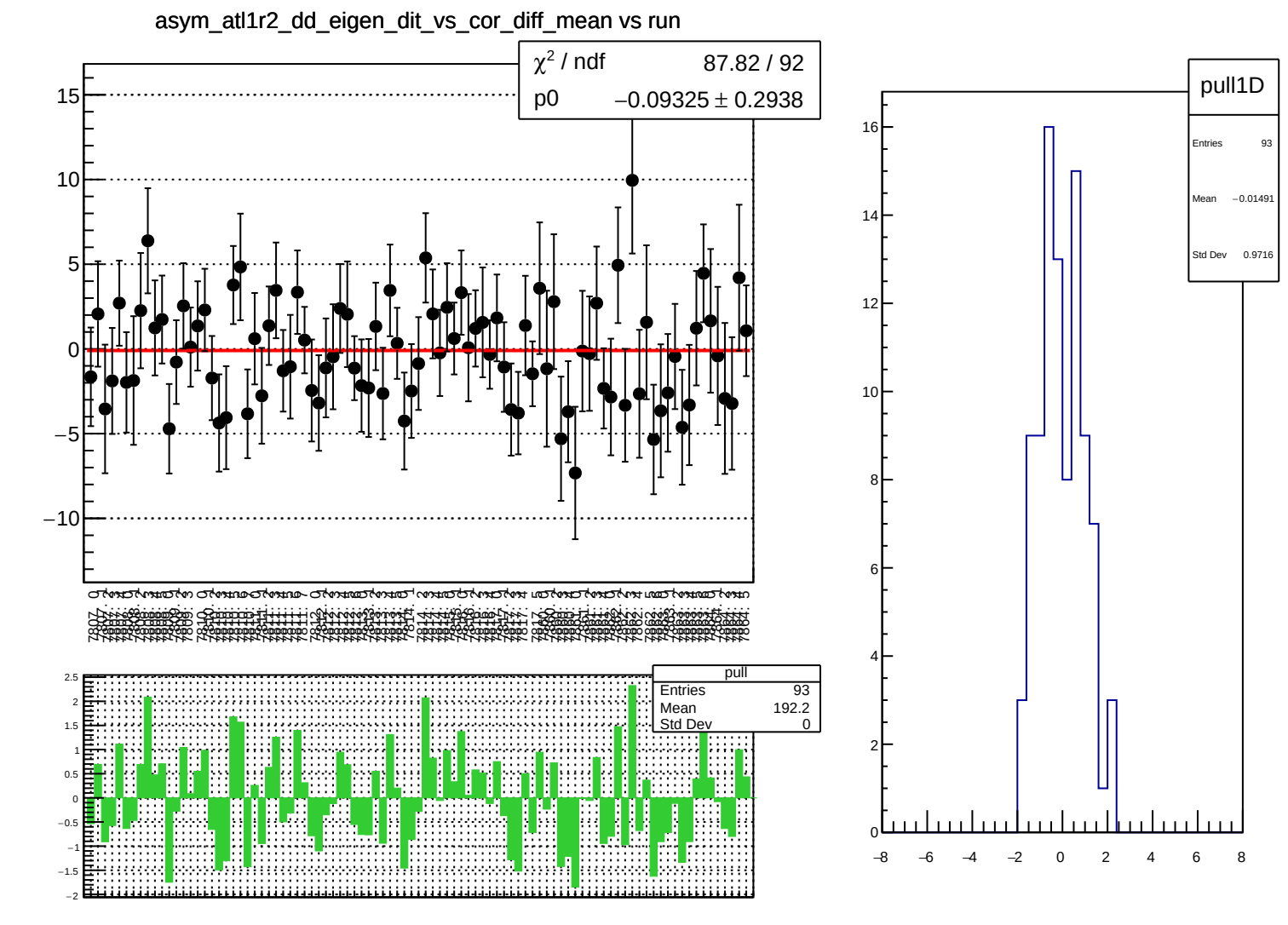

asym_atl1r2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.043e+04 / 92
p0 278.8 ± 0.2078
450
400
350
300
250
200

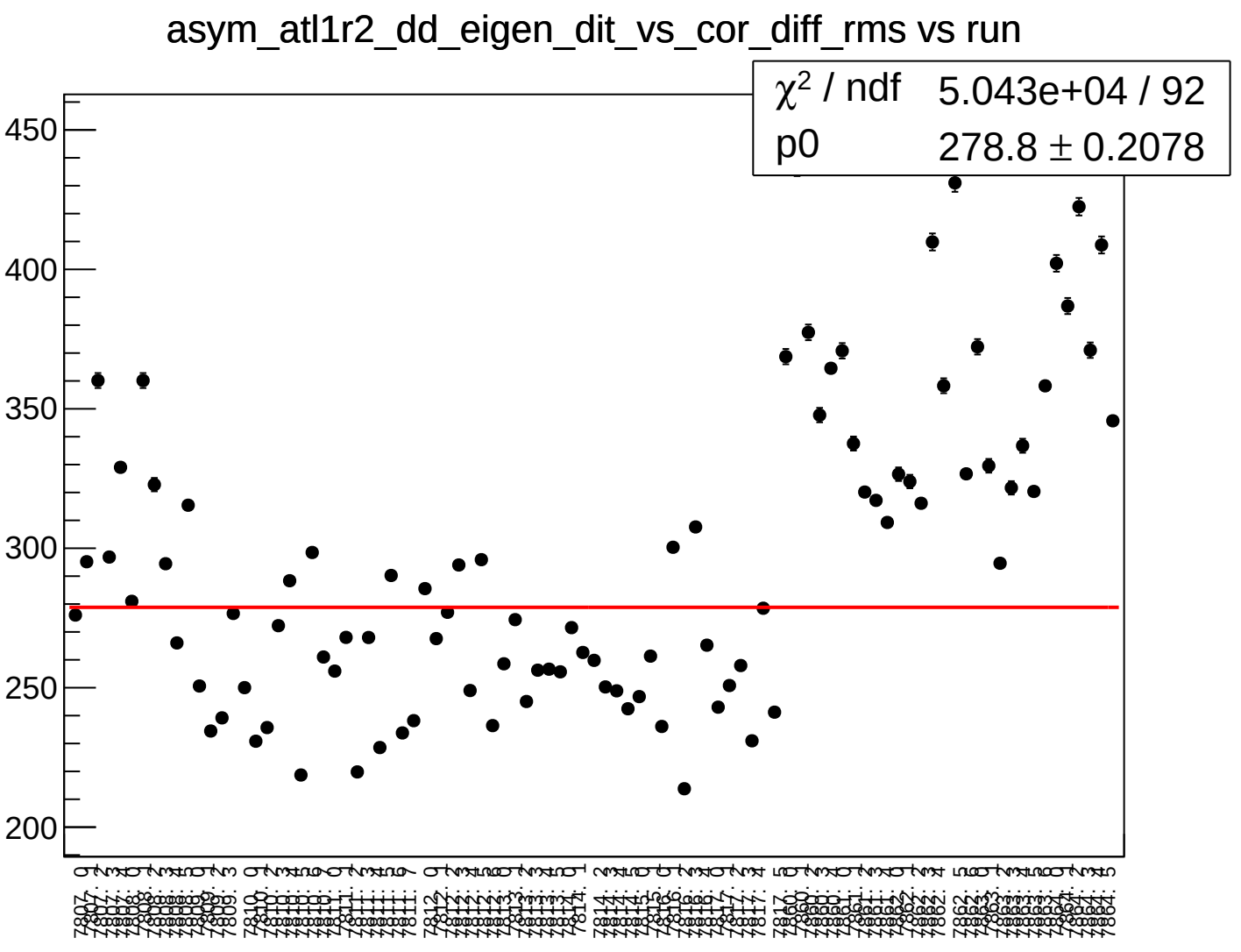

asym_atl1r2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.82 / 92
p0 −0.09323 ± 0.2938
pull
Entries 93
Mean 192.2
Std Dev 0
pull1D
Entries 93
Mean −0.01491
Std Dev 0.9716

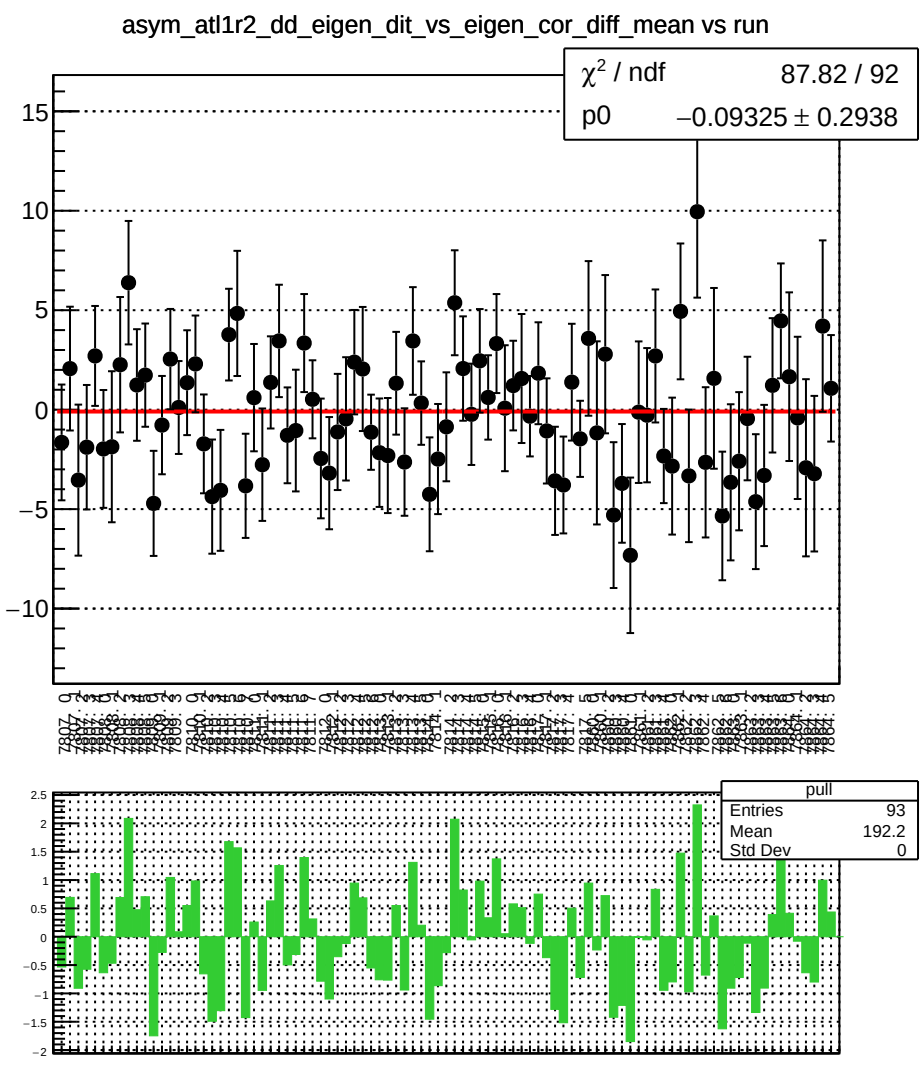

asym_atl1r2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.043e+04 / 92
p0 278.8 ± 0.2078
450
400
350
300
250
200

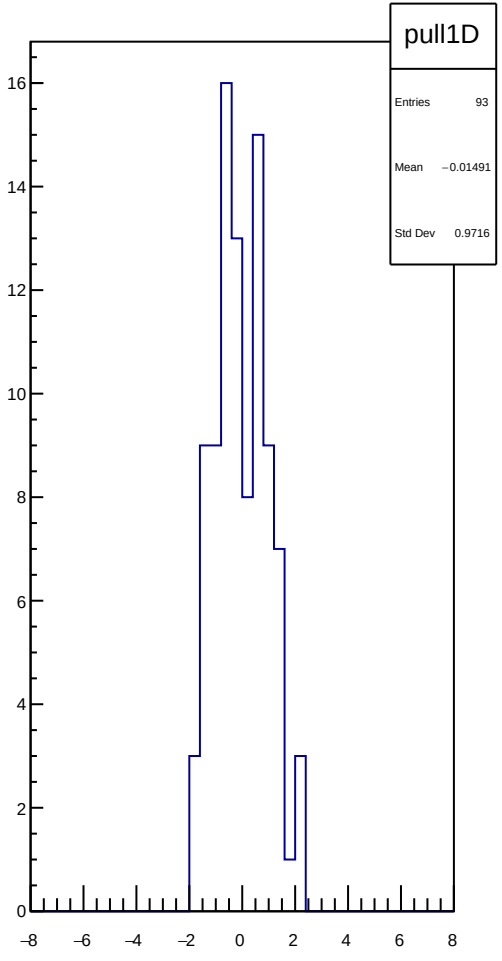

asym_atl1r2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 80.31 / 92
p0 −1.698e−05 ± 1.743e−05
pull
Entries 93
Mean 3.497
Std Dev 0
pull1D
Entries 93
Mean −0.0009368
Std Dev 0.9293

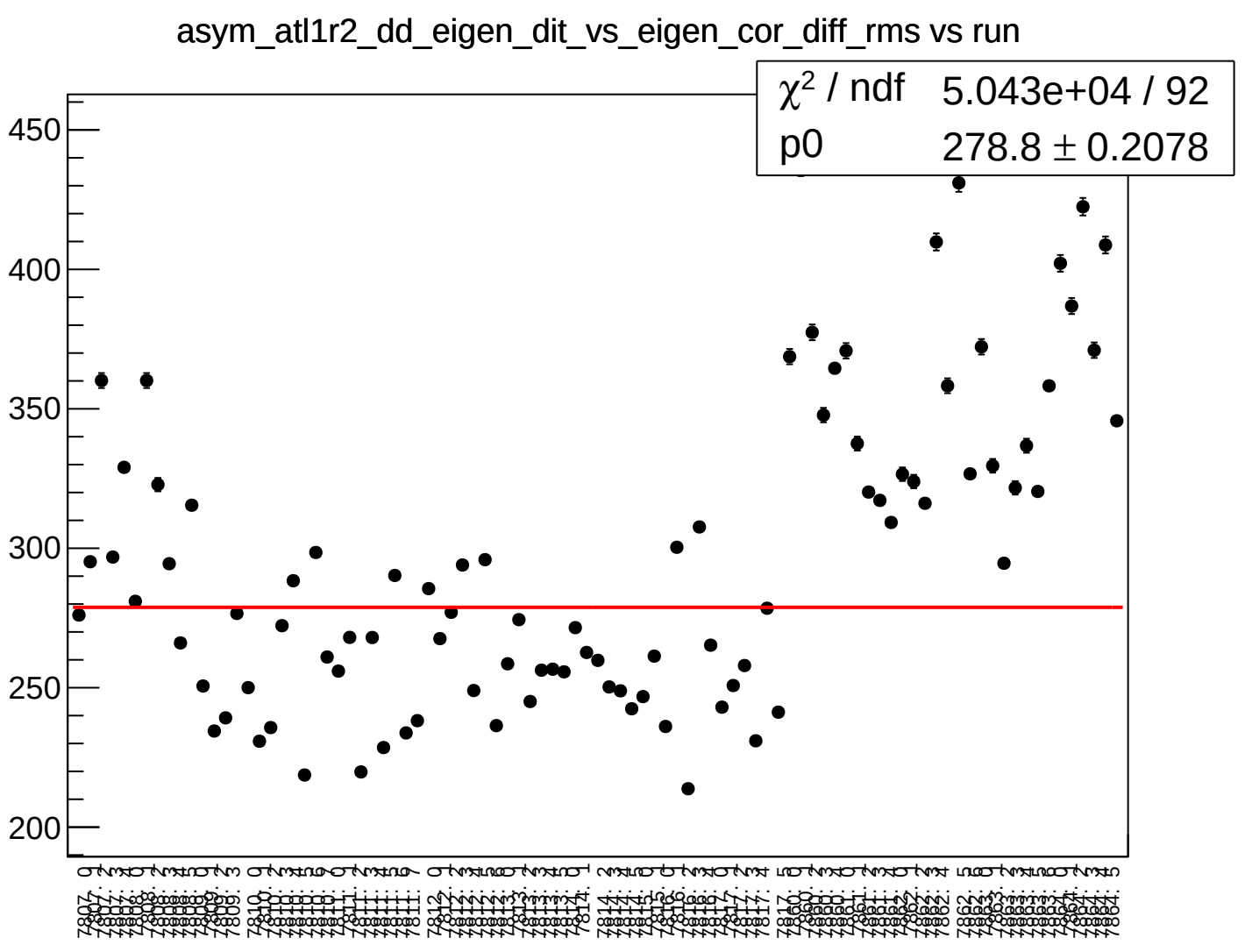

asym_atl1r2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6655 / 92
p0 0.01675 ± 1.233e−05
0.02
0.019
0.018
0.017
0.016
0.015

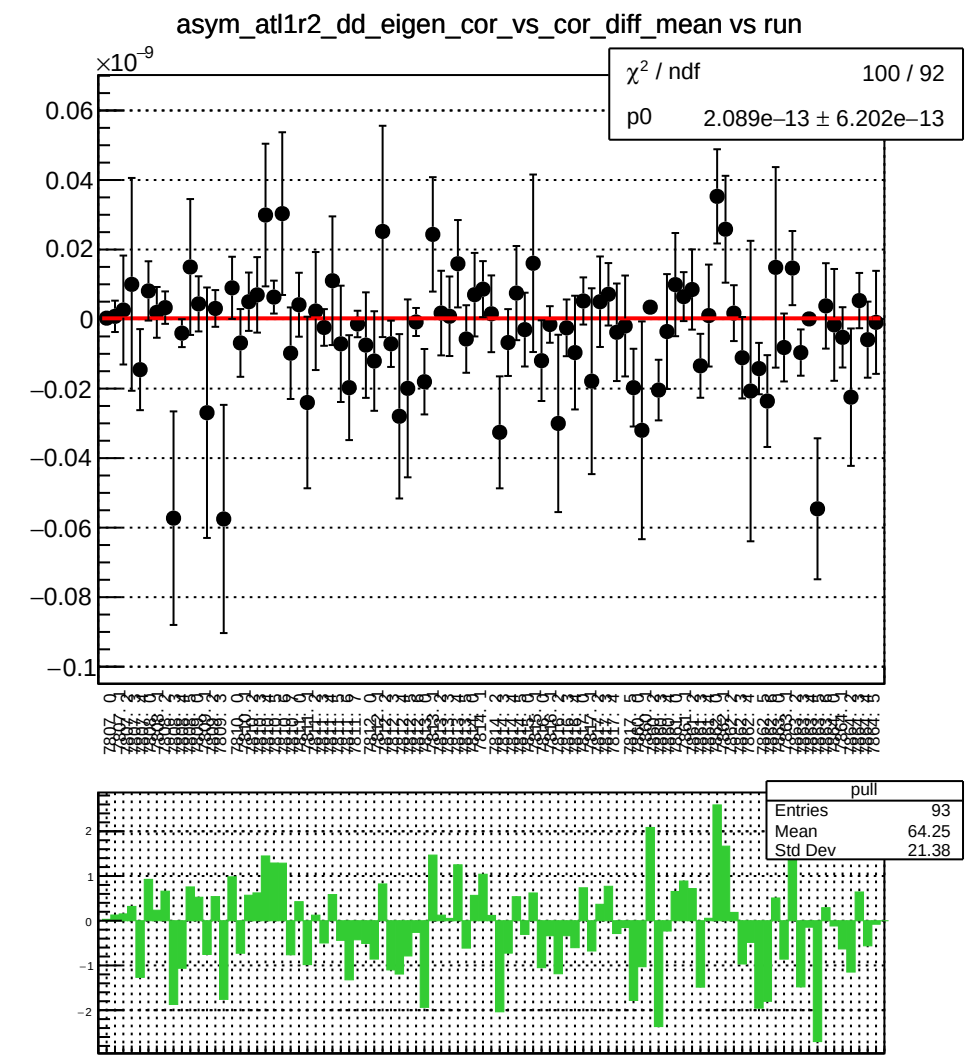

asym_atl1r2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.82 / 92
p0 −0.09325 ± 0.2938
pull
Entries 93
Mean 192.2
Std Dev 0
pull1D
Entries 93
Mean −0.01491
Std Dev 0.9716

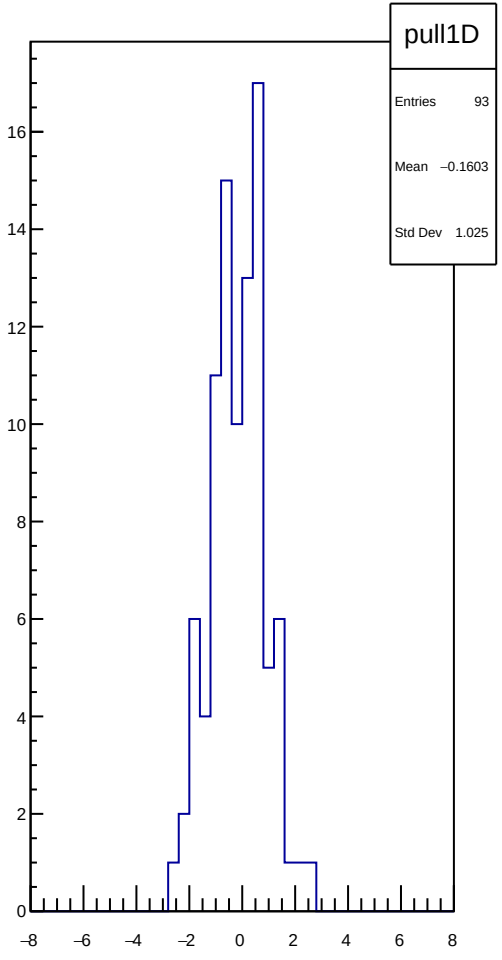

asym_atl1r2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.043e+04 / 92
p0 278.8 ± 0.2078
450
400
350
300
250
200

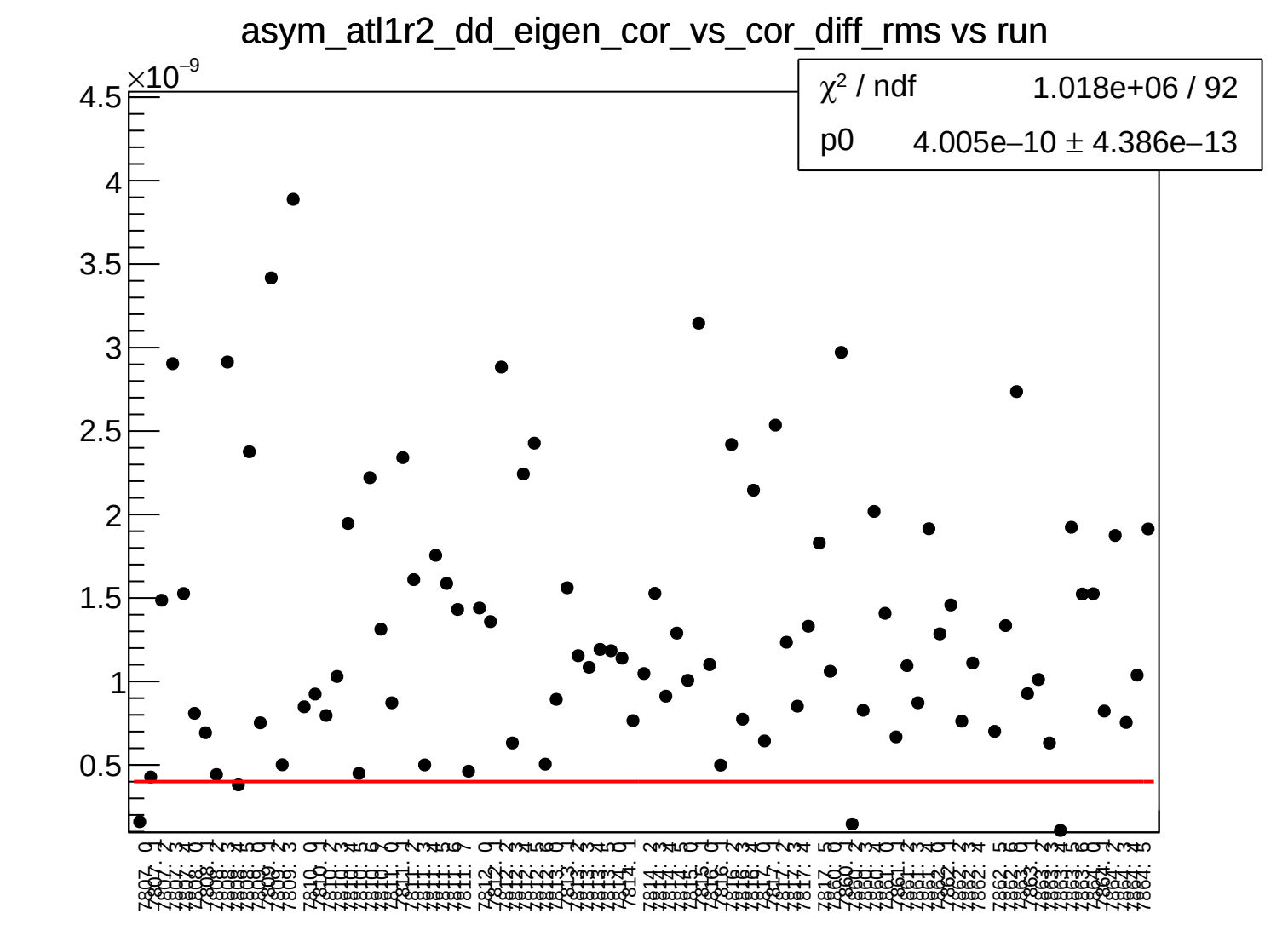

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.82 / 92
p0 −0.09325 ± 0.2938
pull
Entries 93
Mean 192.2
Std Dev 0

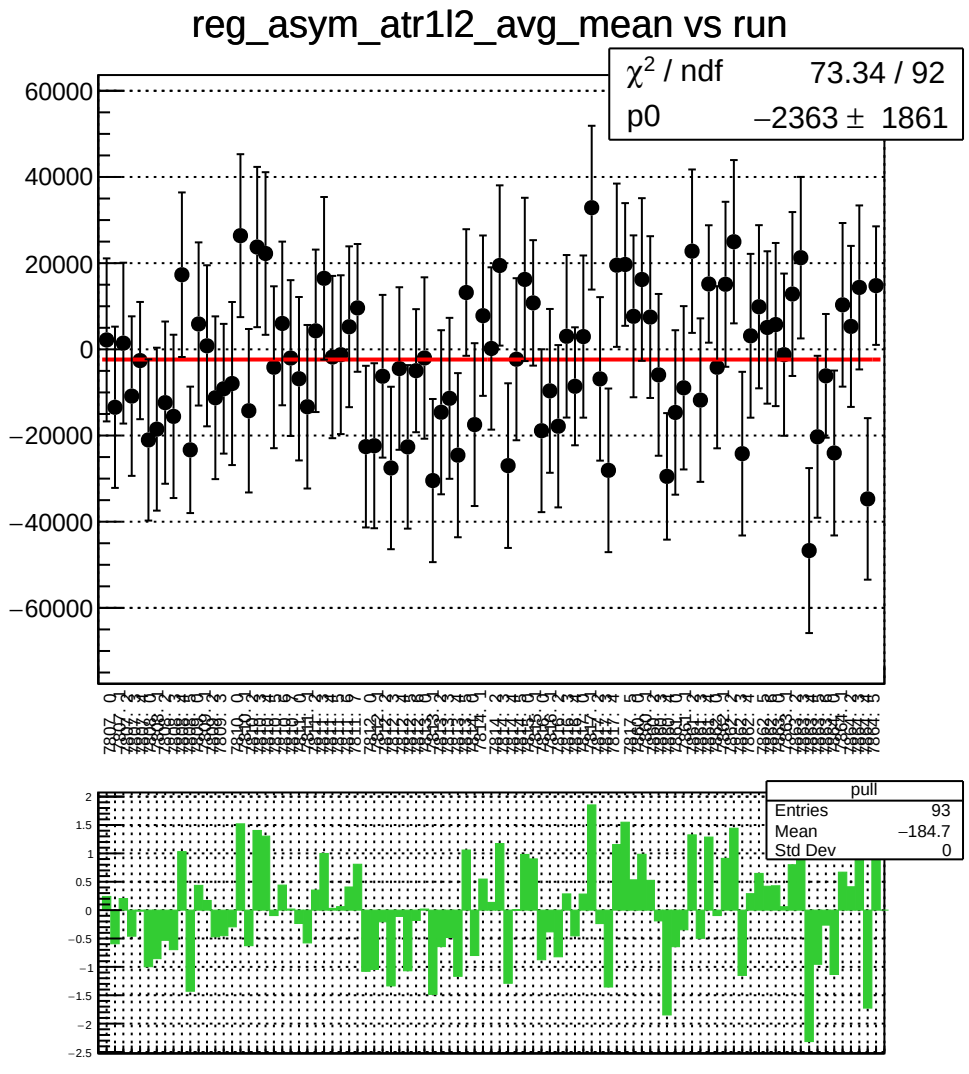

pull1D
Entries 93
Mean −0.01491
Std Dev 0.9716

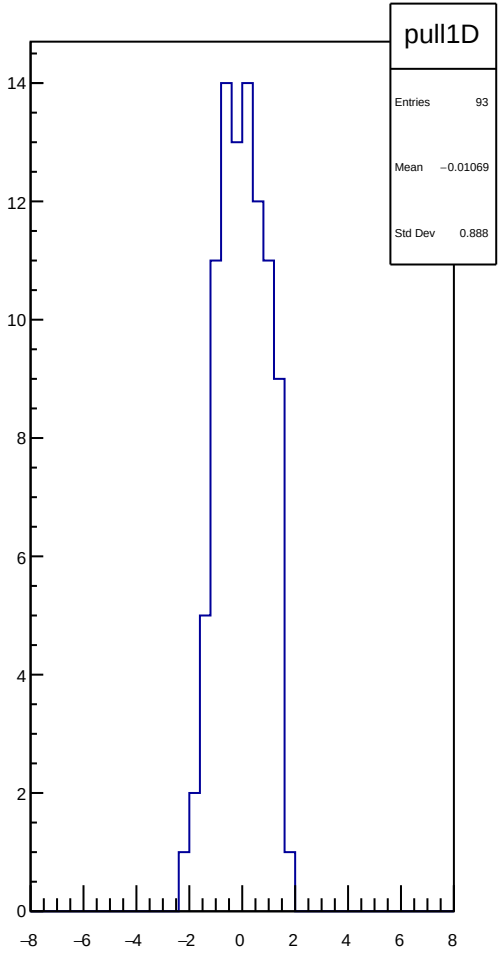

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.043e+04 / 92
p0 278.8 ± 0.2078
450
400
350
300
250
200

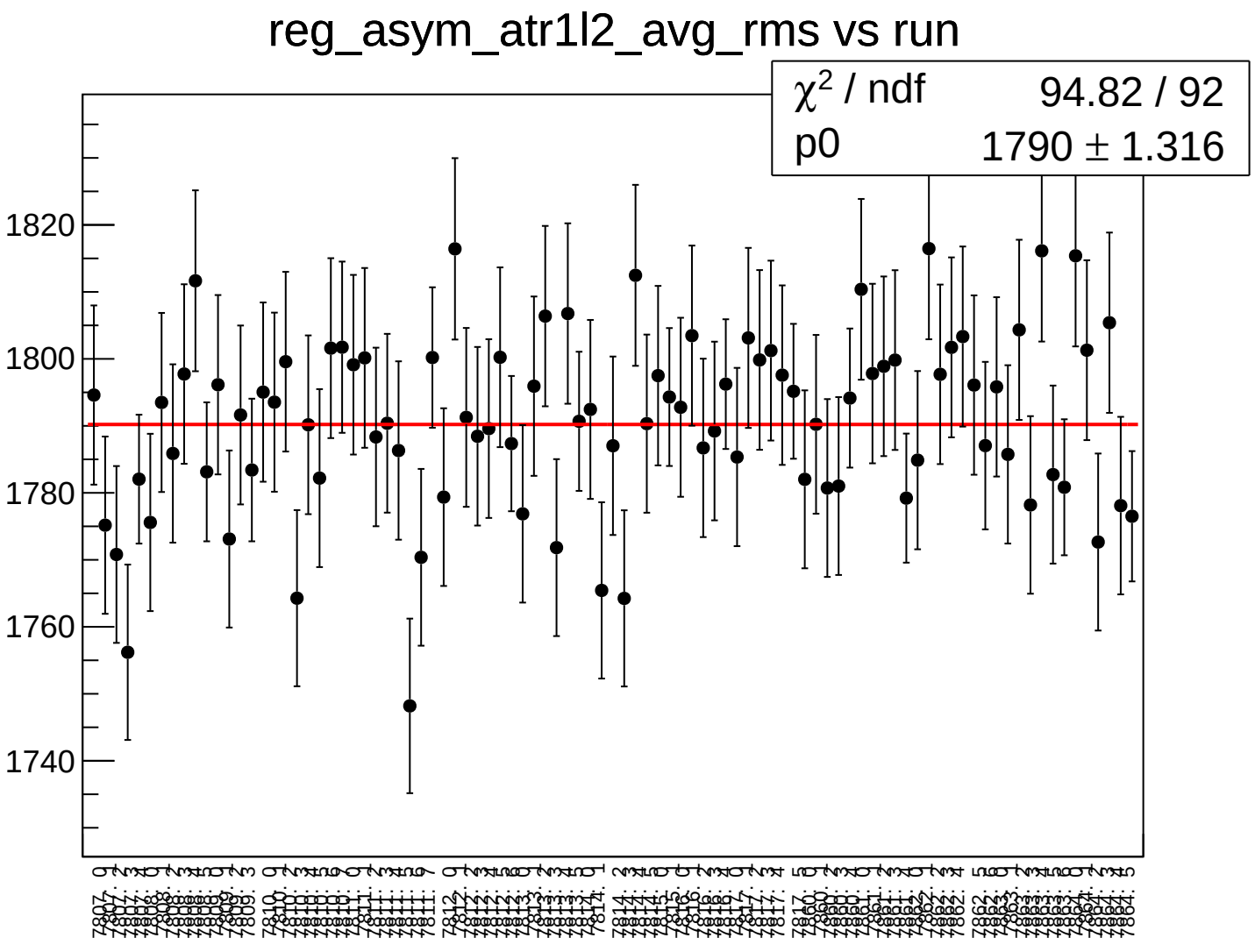

asym_atl1r2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 100 / 92
p0 2.089e−13 ± 6.202e−13
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
pull
Entries 93
Mean 64.25
Std Dev 21.38
2
1
0
−1
−2

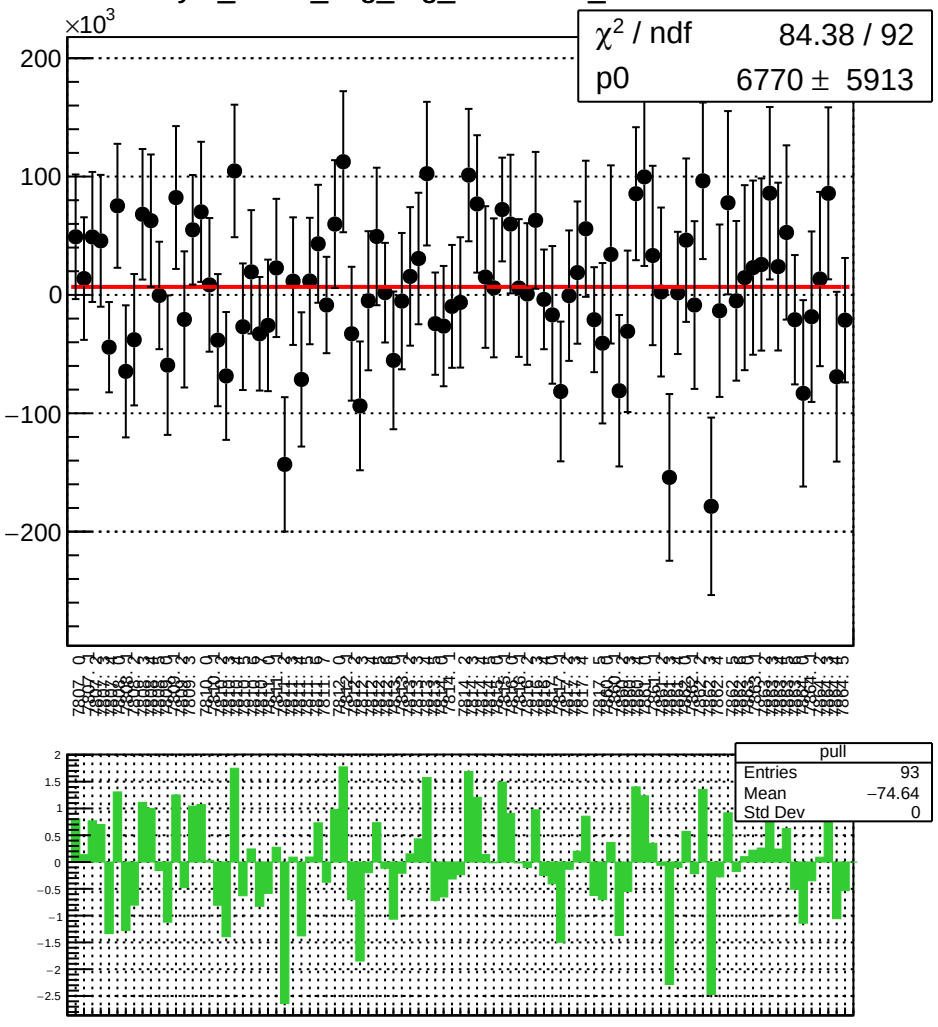

pull1D
Entries 93
Mean −0.1603
Std Dev 1.025
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

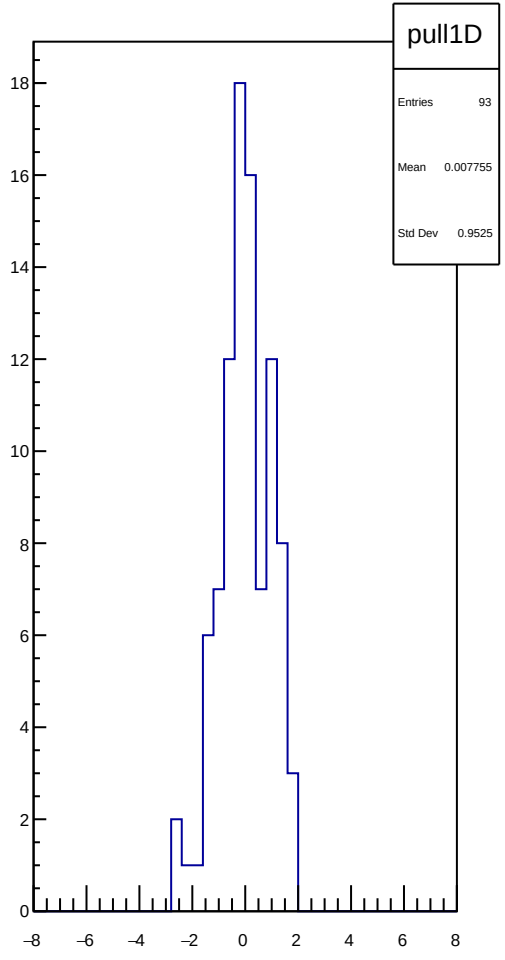

asym_atl1r2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.018e+06 / 92
p0 4.005e−10 ± 4.386e−13
4.5
4
3.5
3
2.5
2
1.5
1
0.5

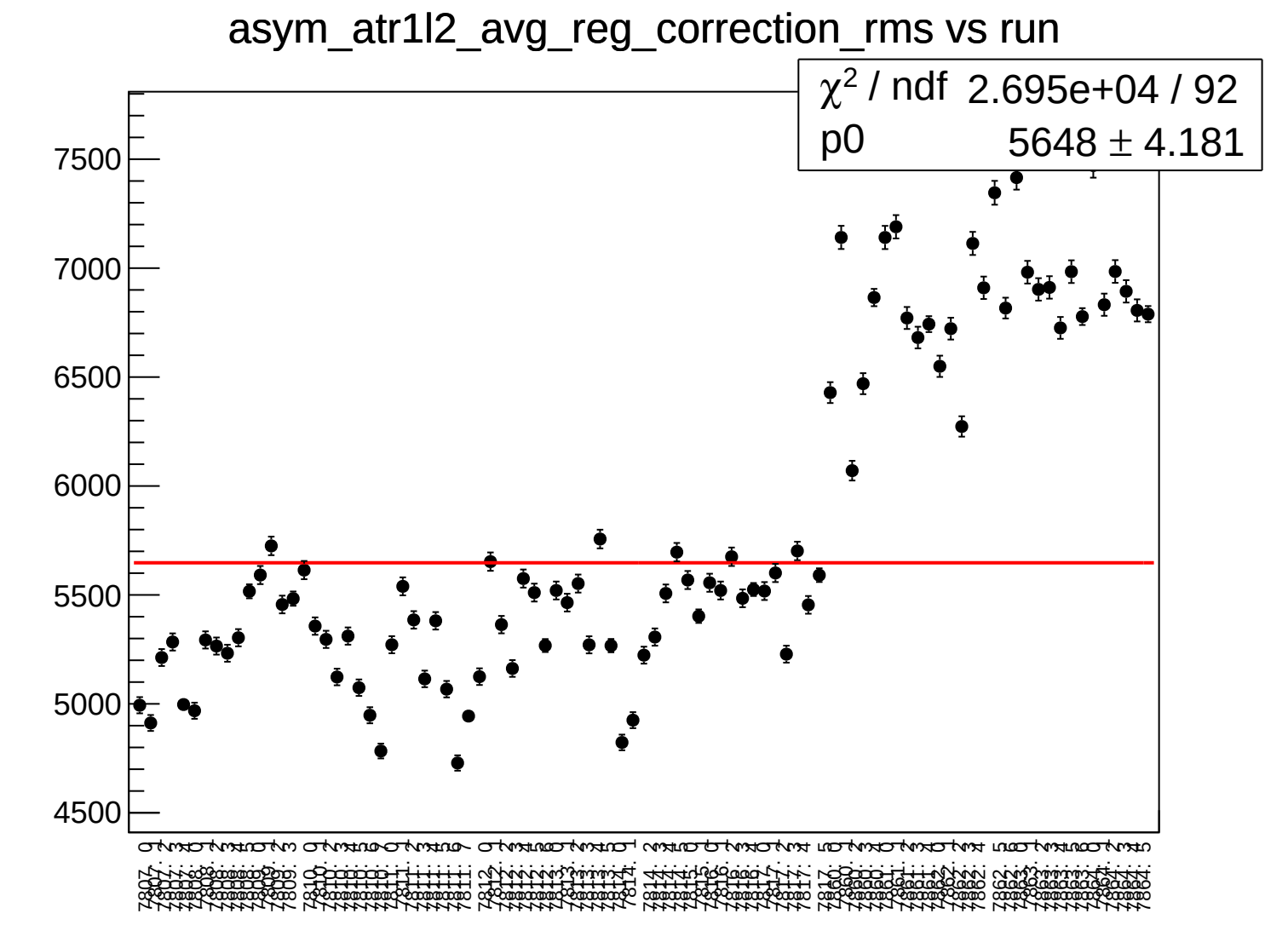

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 73.34 / 92
p0 −2363 ± 1861
pull
Entries 93
Mean −184.7
Std Dev 0

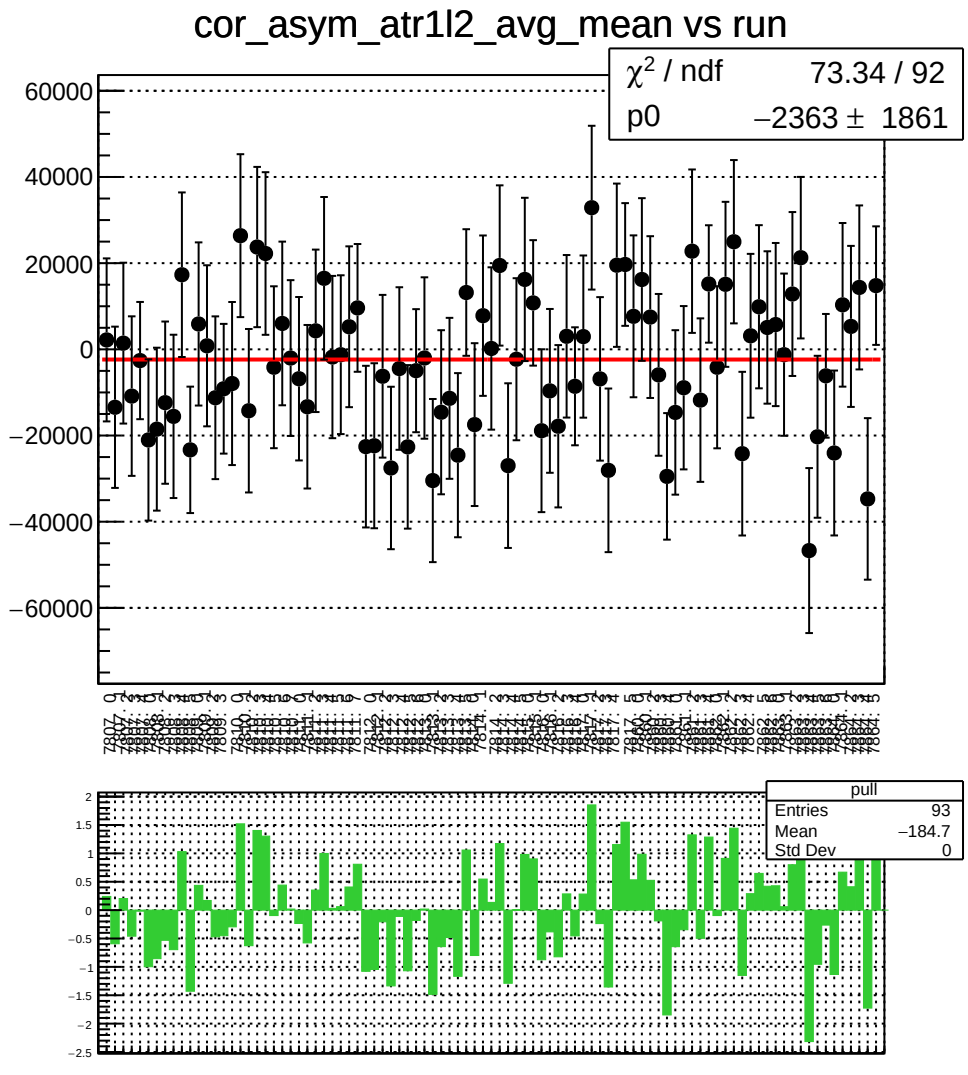

pull1D
Entries 93
Mean −0.01069
Std Dev 0.888

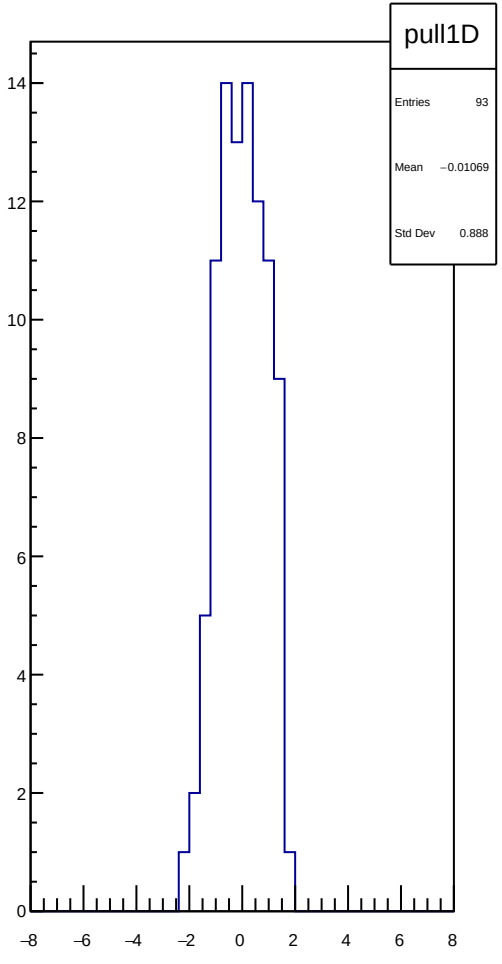

reg_asym_atr1l2_avg_rms vs run
χ² / ndf 94.82 / 92
p0 1790 ± 1.316
1820
1800
1780
1760
1740

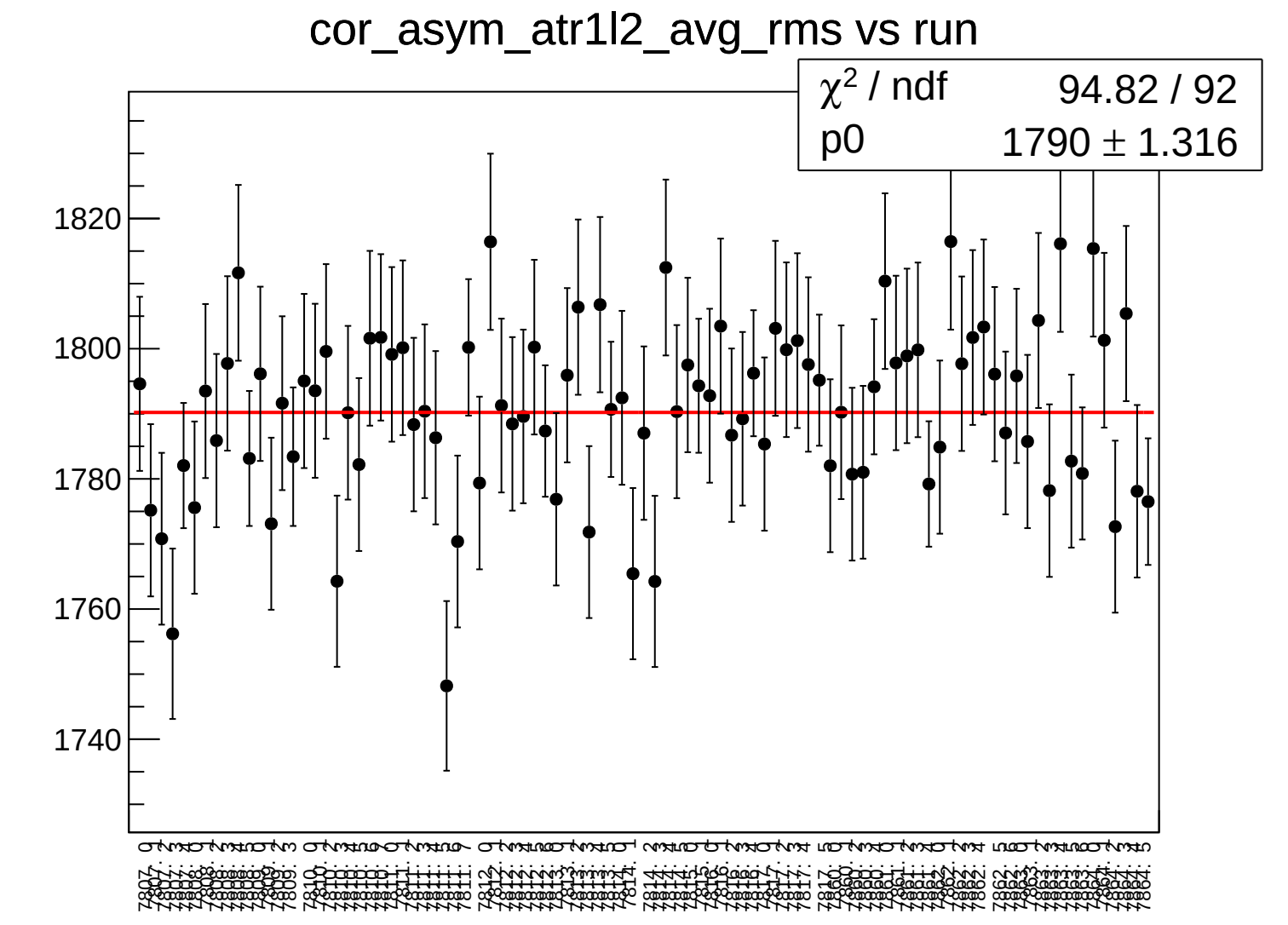

asym_atr1l2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 84.38 / 92
p0 6770 ± 5913
200
100
0
−100
−200
pull
Entries 93
Mean −74.64
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

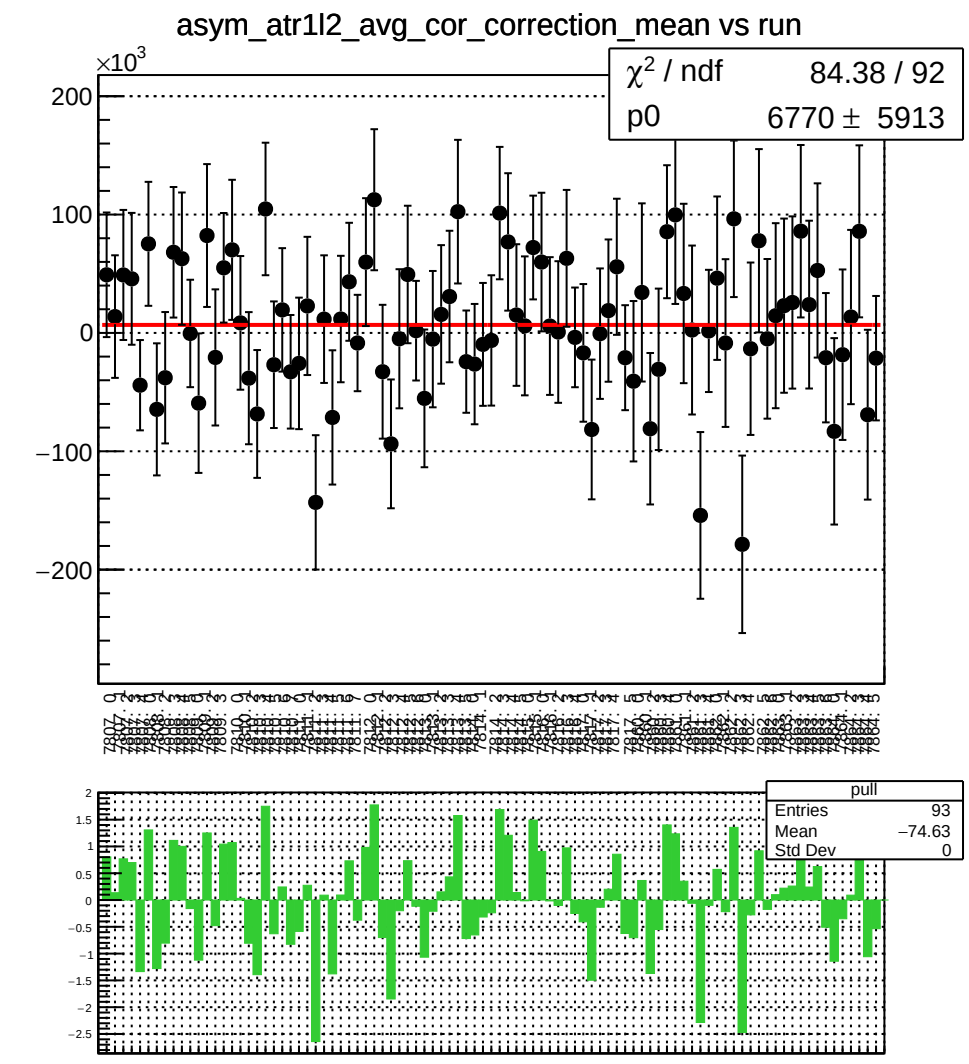

pull1D
Entries 93
Mean 0.007755
Std Dev 0.9525
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

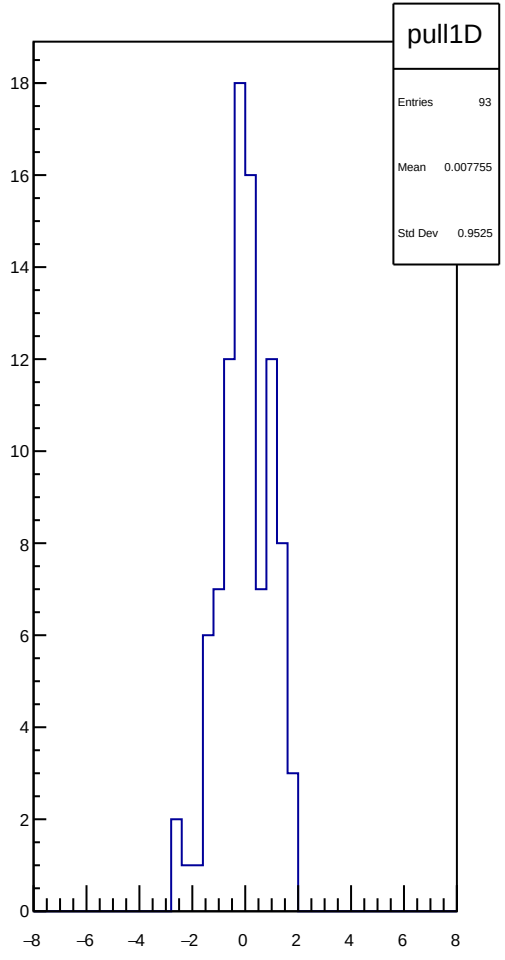

asym_atr1l2_avg_reg_correction_rms vs run
χ² / ndf 2.695e+04 / 92
p0 5648 ± 4.181
7500
7000
6500
6000
5500
5000
4500

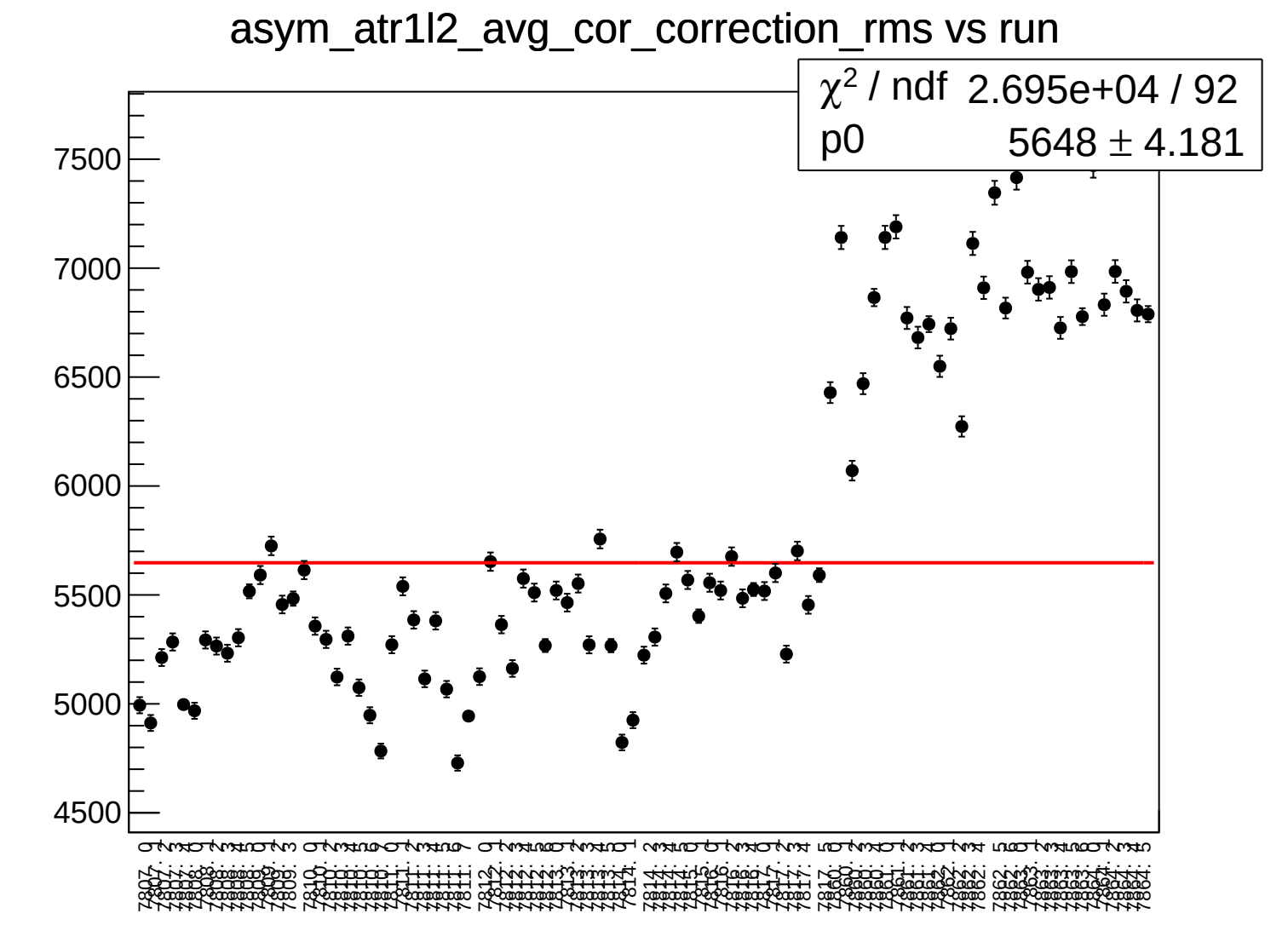

cor_asym_atr1l2_avg_mean vs run
χ² / ndf 73.34 / 92
p0 −2363 ± 1861
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −184.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

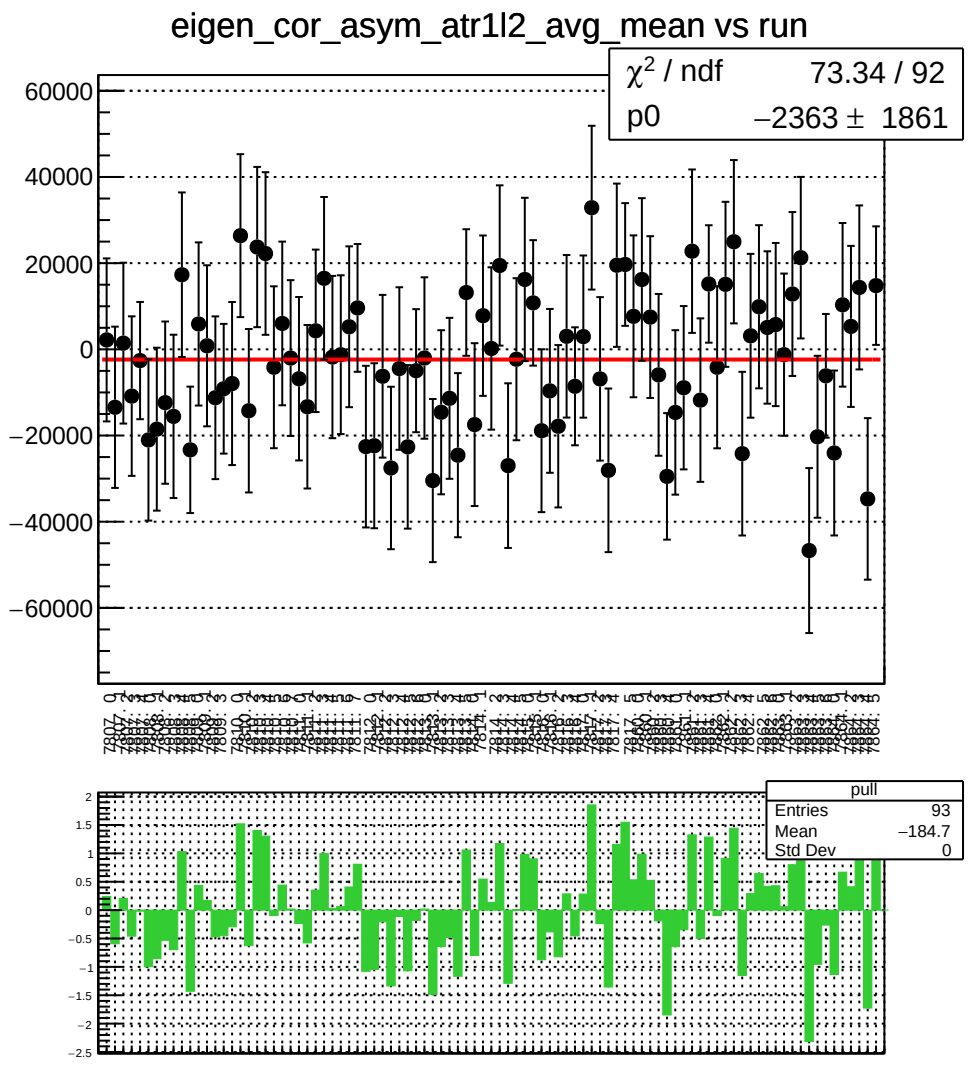

pull1D
Entries 93
Mean −0.01069
Std Dev 0.888
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

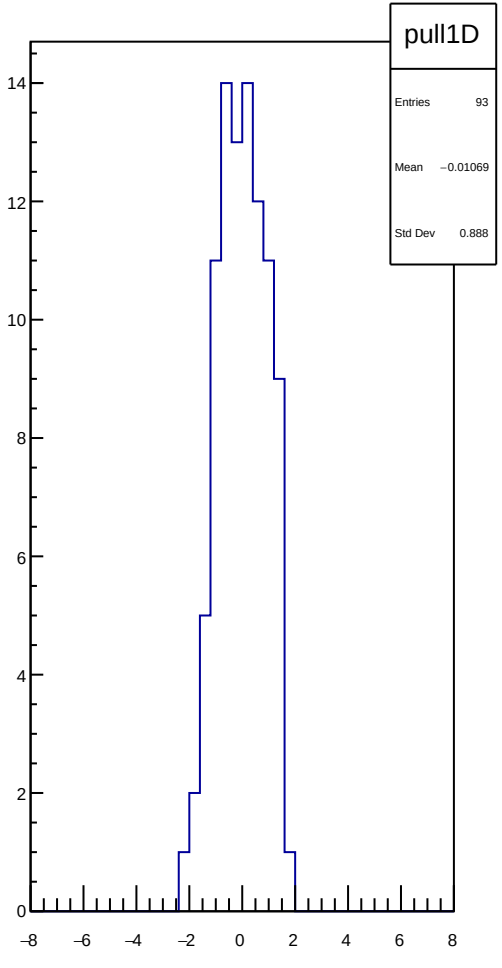

cor_asym_atr1l2_avg_rms vs run
χ² / ndf 94.82 / 92
p0 1790 ± 1.316
1820
1800
1780
1760
1740

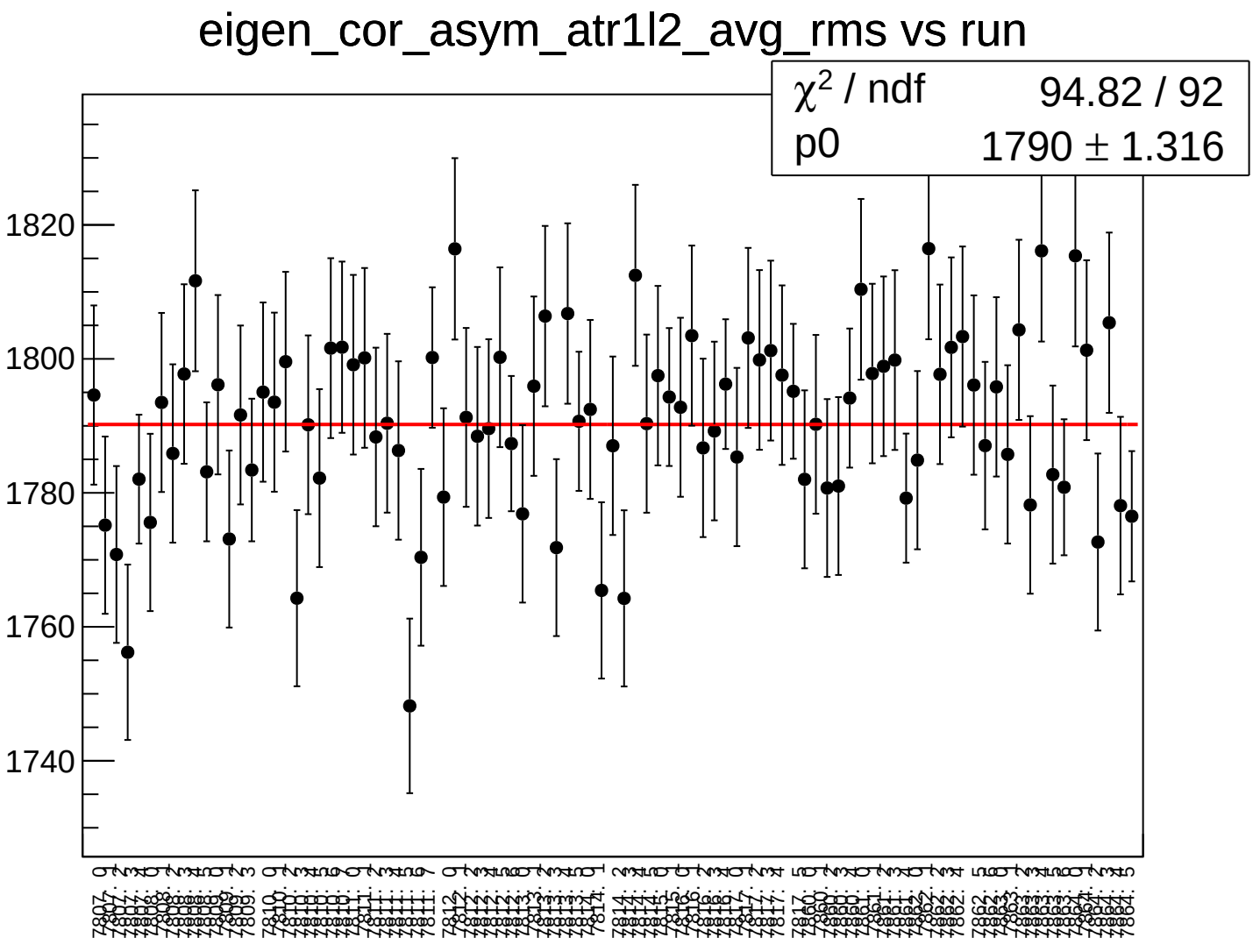

asym_atr1l2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 84.38 / 92
p0 6770 ± 5913
200
100
0
−100
−200
pull
Entries 93
Mean −74.63
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

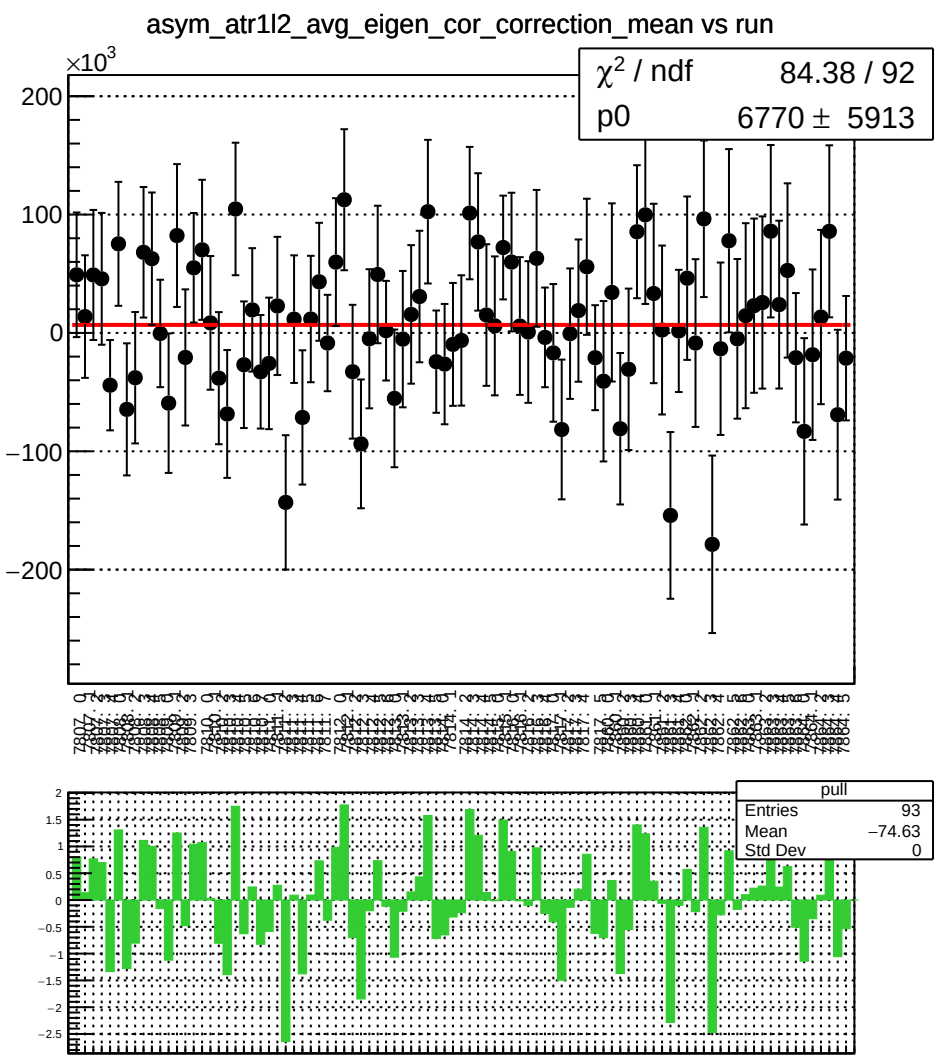

pull1D
Entries 93
Mean 0.007755
Std Dev 0.9525
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

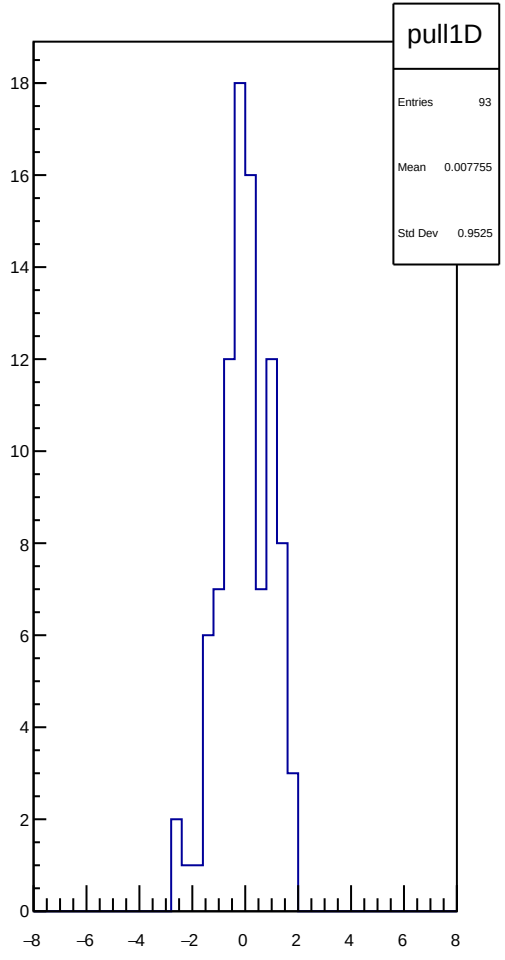

asym_atr1l2_avg_cor_correction_rms vs run
χ² / ndf 2.695e+04 / 92
p0 5648 ± 4.181
7500
7000
6500
6000
5500
5000
4500

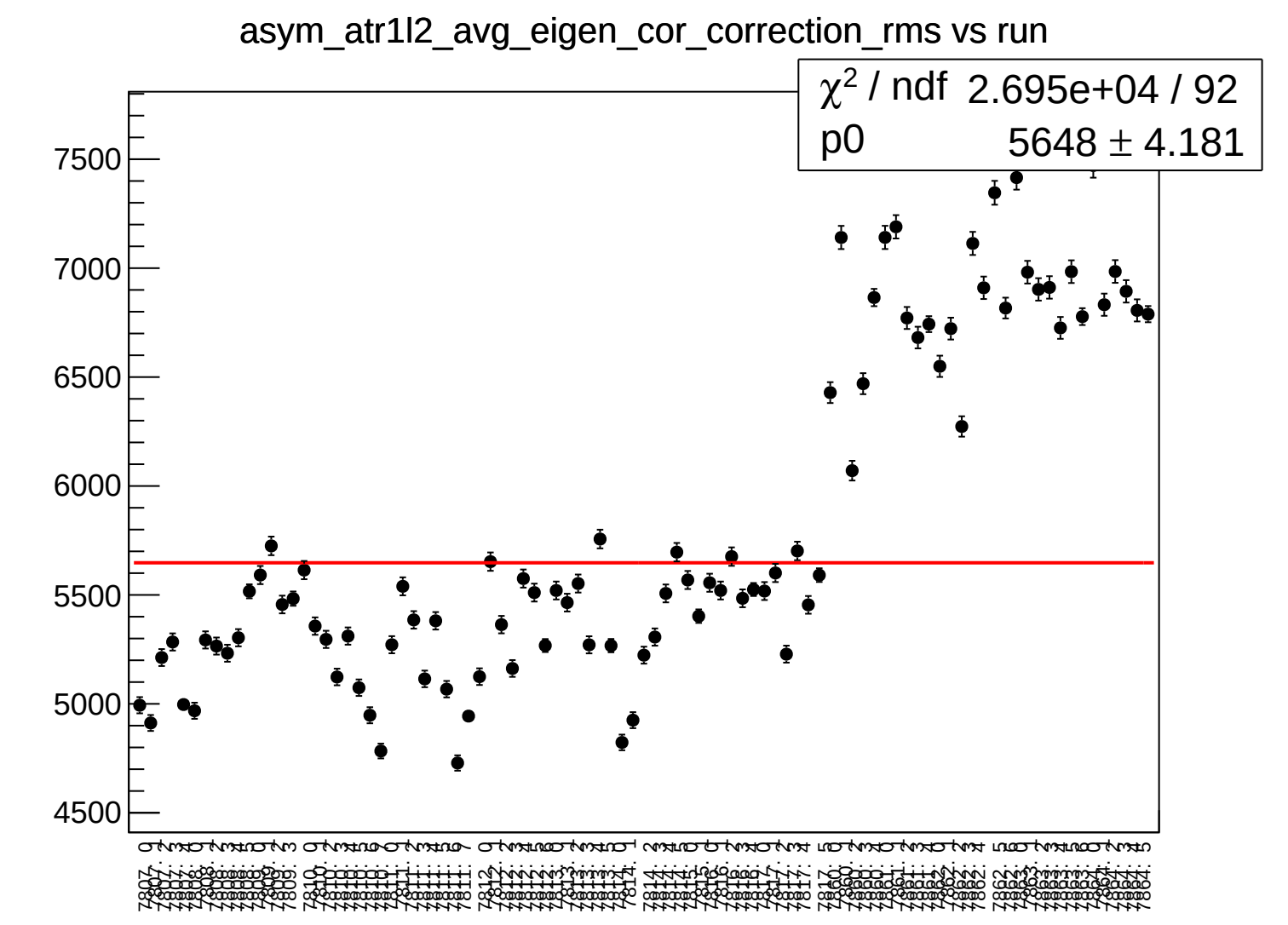

eigen_cor_asym_atr1l2_avg_mean vs run
χ² / ndf 73.34 / 92
p0 −2363 ± 1861
pull
Entries 93
Mean −184.7
Std Dev 0

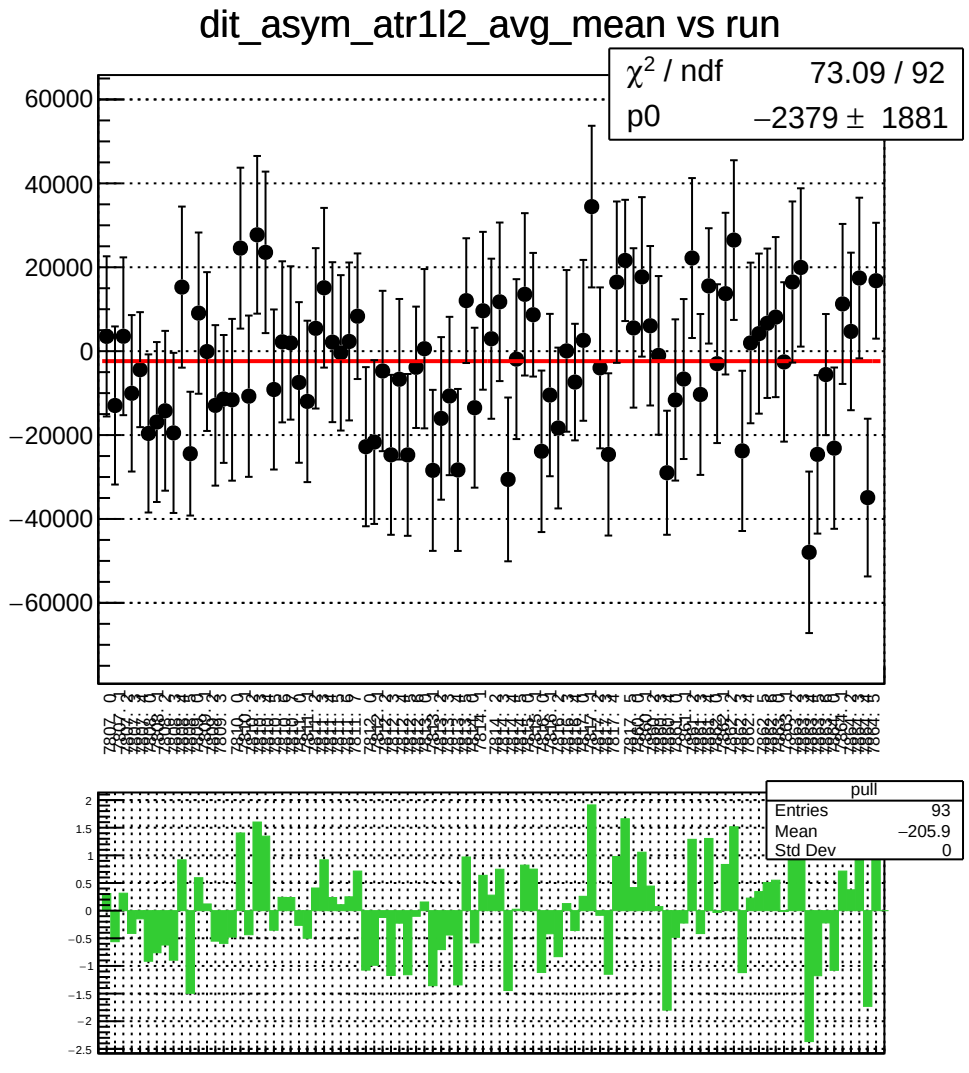

pull1D
Entries 93
Mean −0.01069
Std Dev 0.888

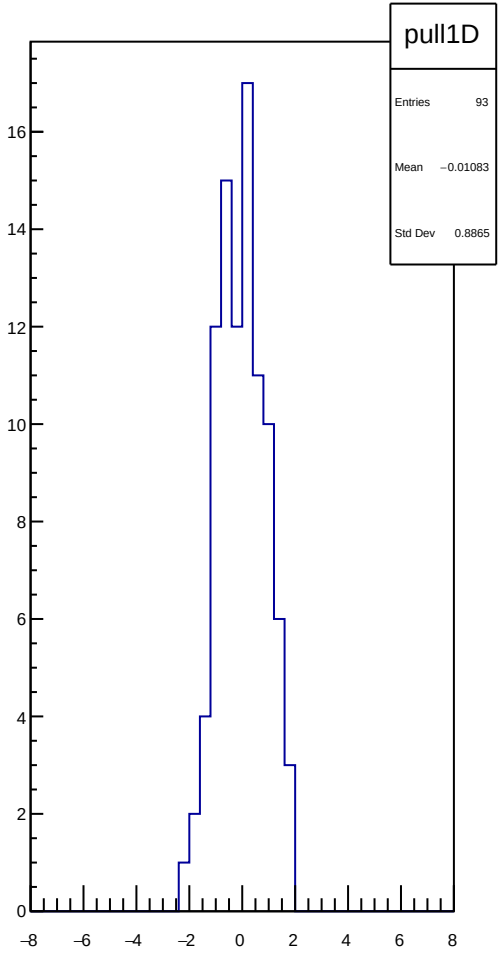

eigen_cor_asym_atr1l2_avg_rms vs run
χ² / ndf 94.82 / 92
p0 1790 ± 1.316
1820
1800
1780
1760
1740

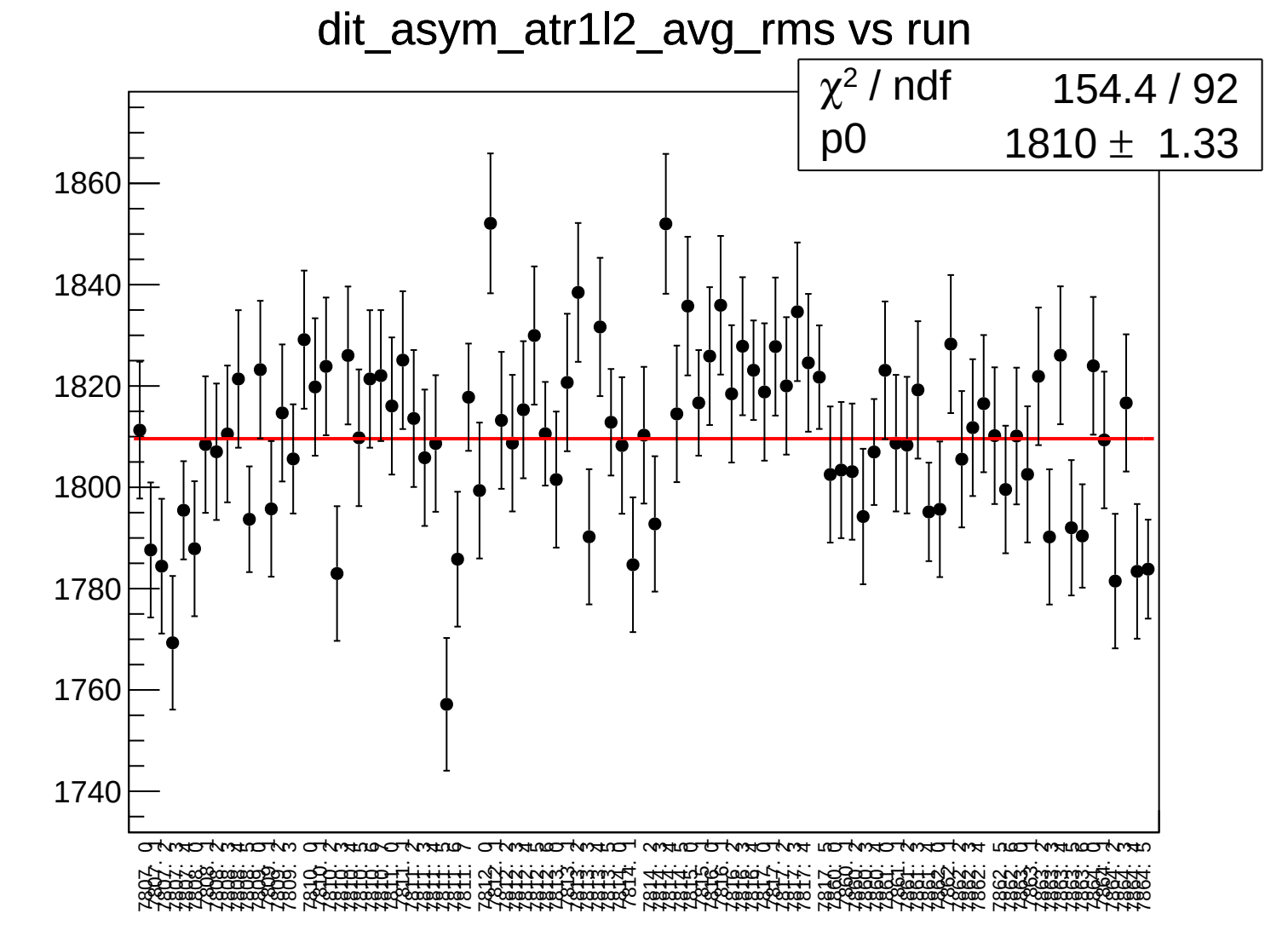

asym_atr1l2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 84.38 / 92
p0 6770 ± 5913
200
100
0
−100
−200
pull
Entries 93
Mean −74.63
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

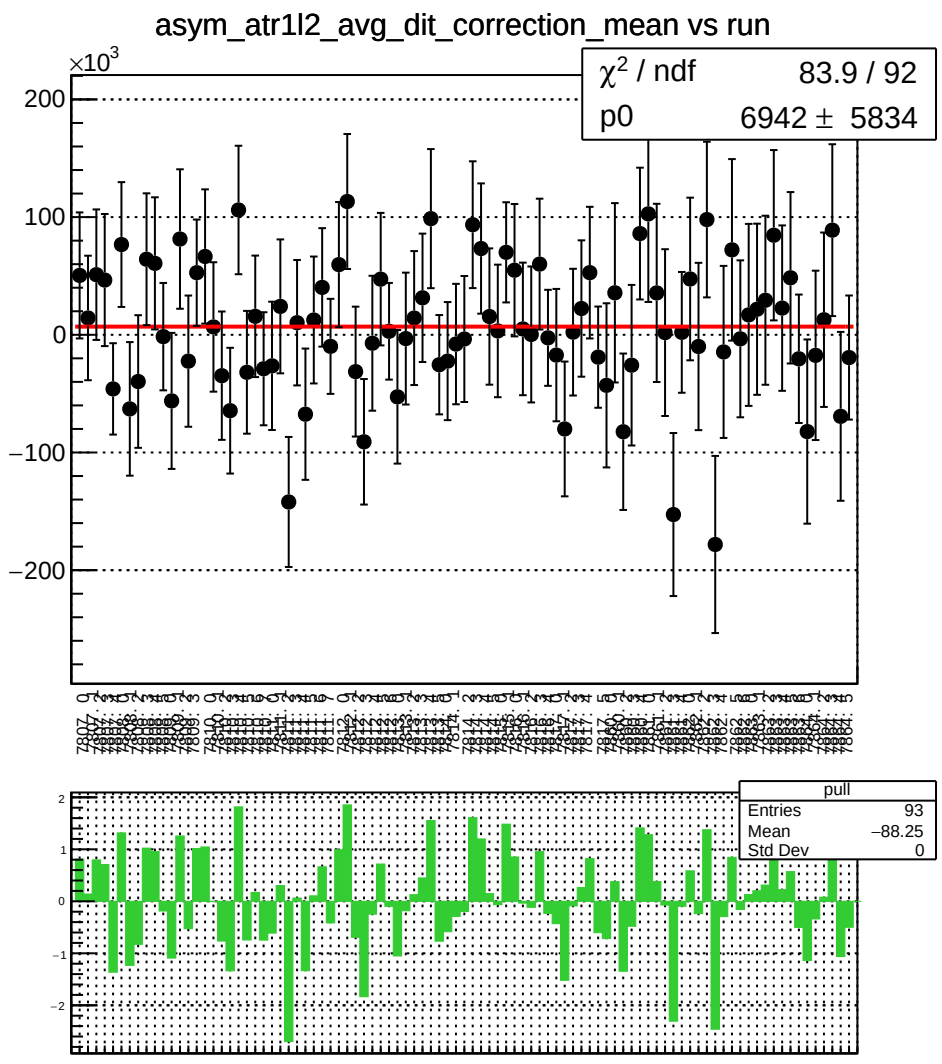

pull1D
Entries 93
Mean 0.007755
Std Dev 0.9525
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

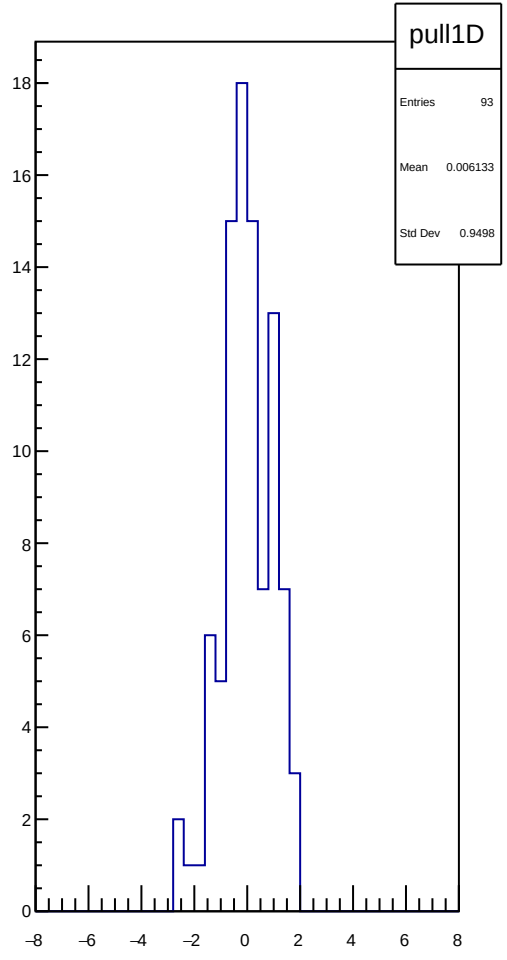

asym_atr1l2_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.695e+04 / 92
p0 5648 ± 4.181
7500
7000
6500
6000
5500
5000
4500

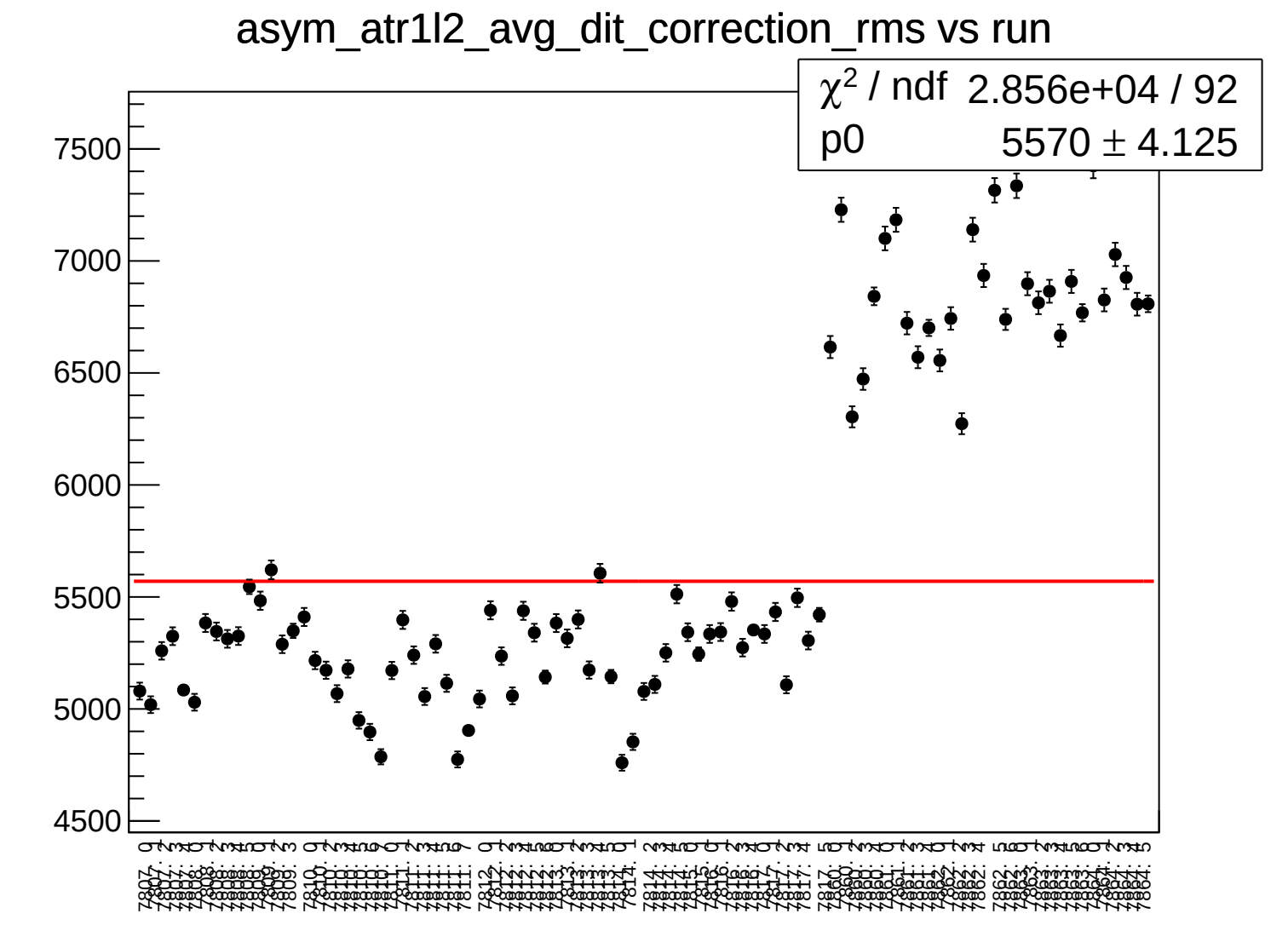

dit_asym_atr1l2_avg_mean vs run
χ² / ndf 73.09 / 92
p0 −2379 ± 1881
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −205.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

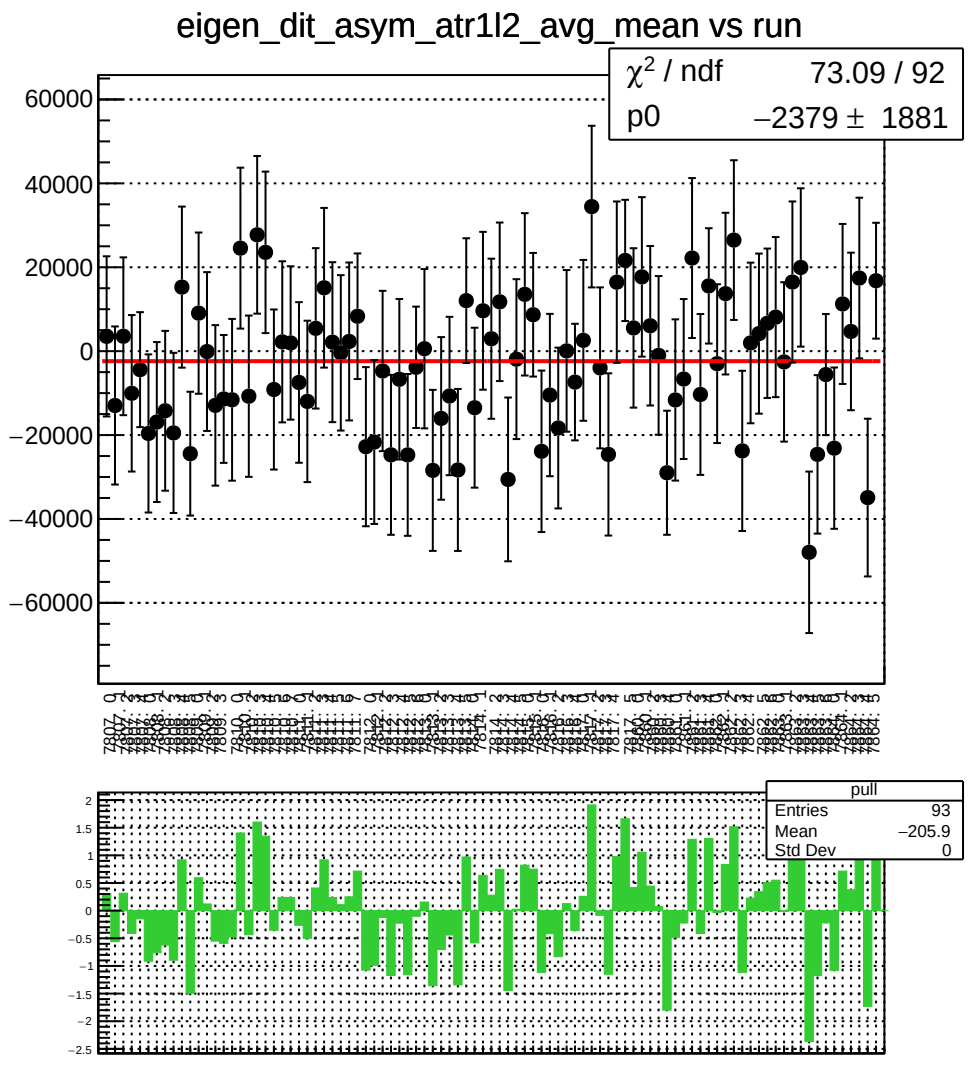

pull1D
Entries 93
Mean −0.01083
Std Dev 0.8865
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

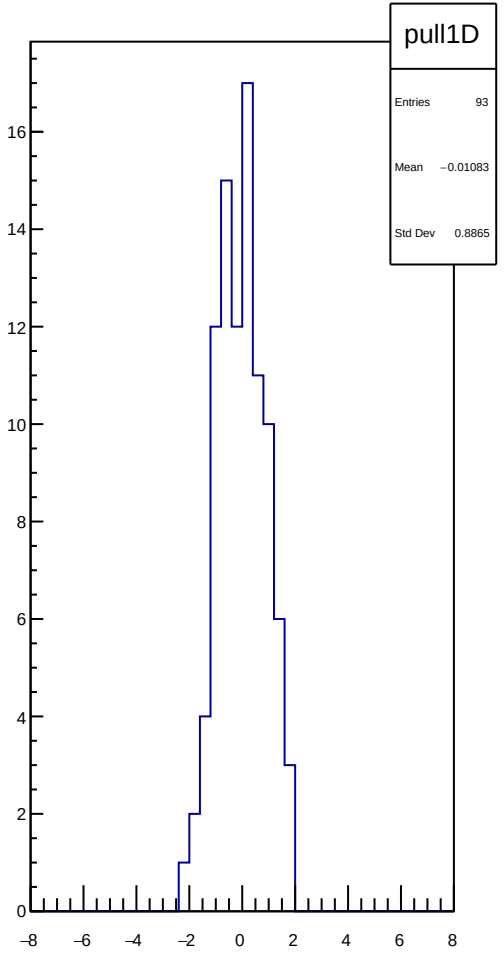

dit_asym_atr1l2_avg_rms vs run
χ² / ndf 154.4 / 92
p0 1810 ± 1.33
1860
1840
1820
1800
1780
1760
1740

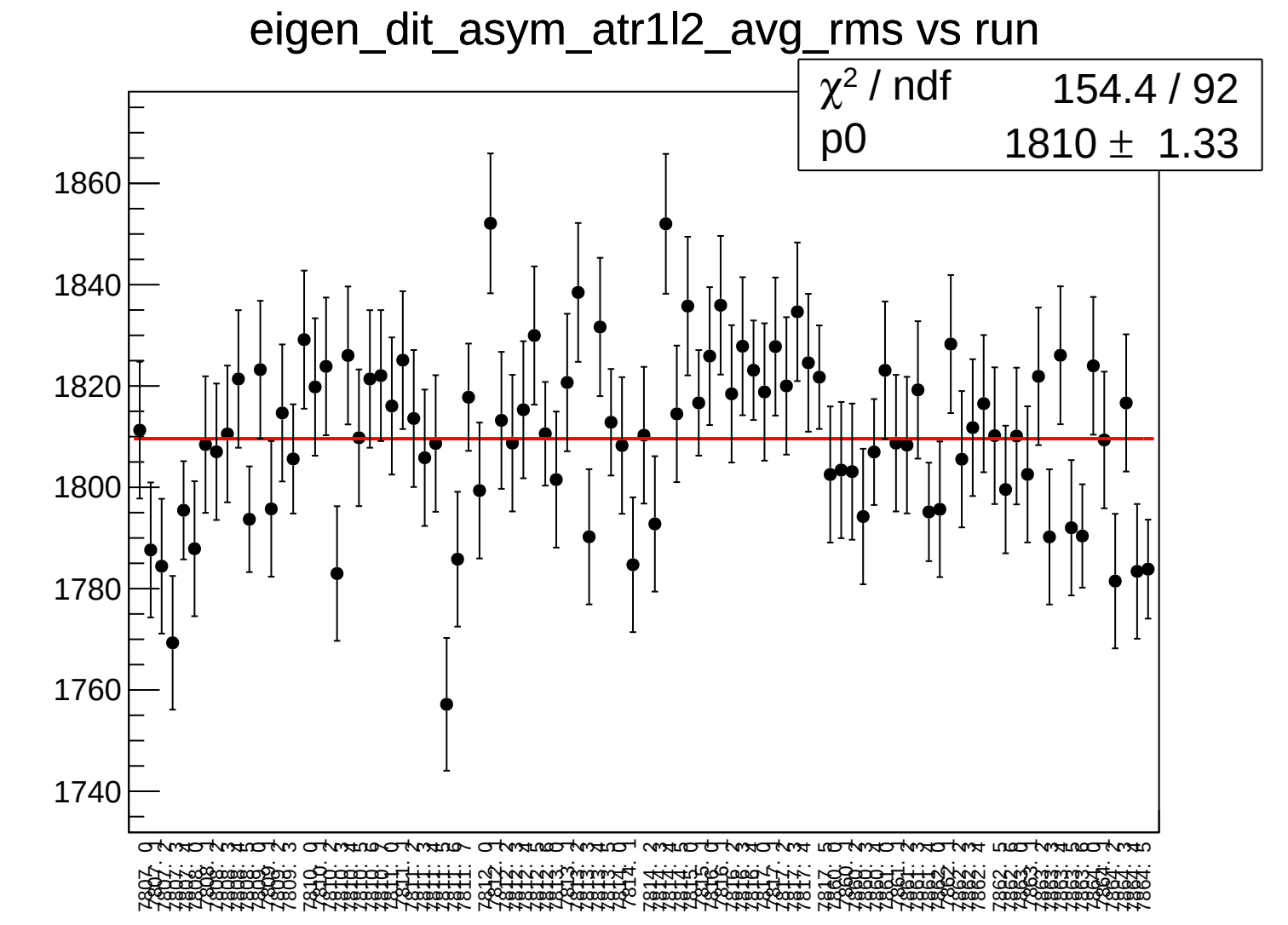

asym_atr1l2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 83.9 / 92
p0 6942 ± 5834
200
100
0
−100
−200
pull
Entries 93
Mean −88.25
Std Dev 0
2
1
0
−1
−2

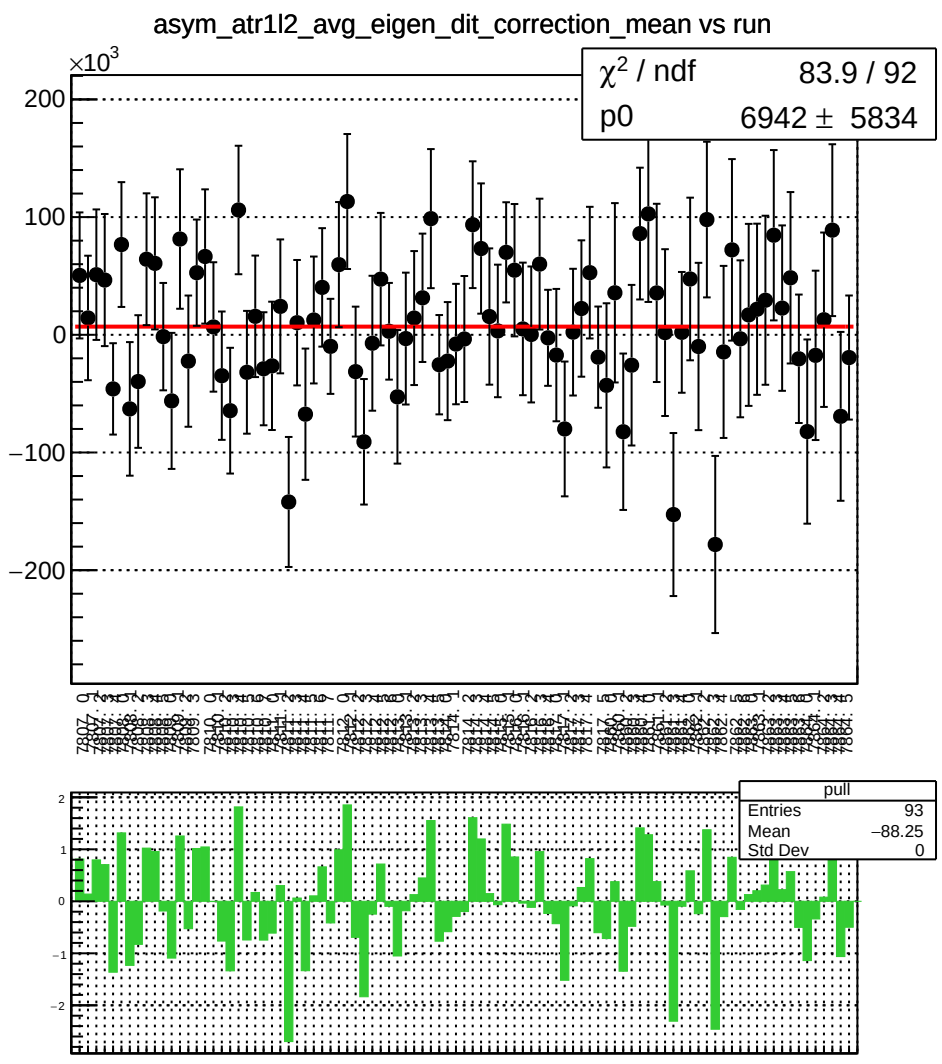

pull1D
Entries 93
Mean 0.006133
Std Dev 0.9498
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

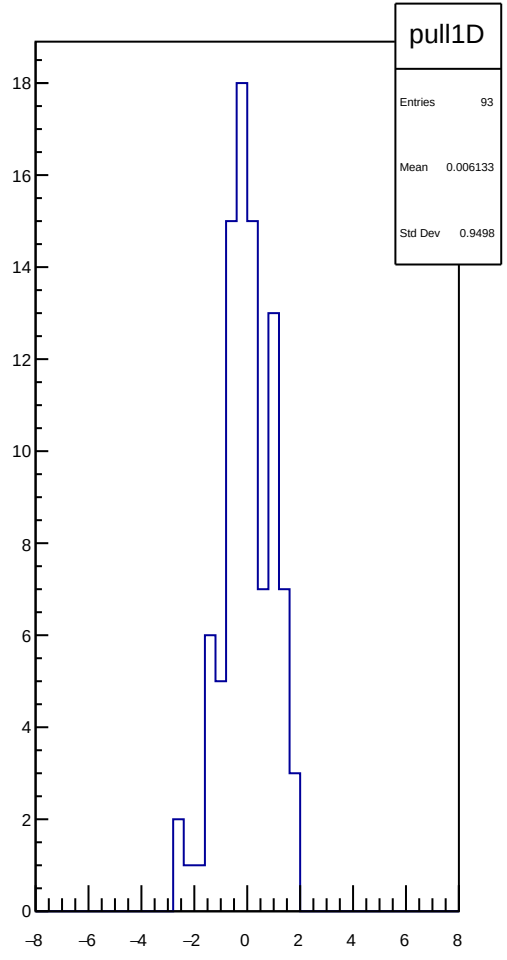

asym_atr1l2_avg_dit_correction_rms vs run
χ² / ndf 2.856e+04 / 92
p0 5570 ± 4.125
7500
7000
6500
6000
5500
5000
4500

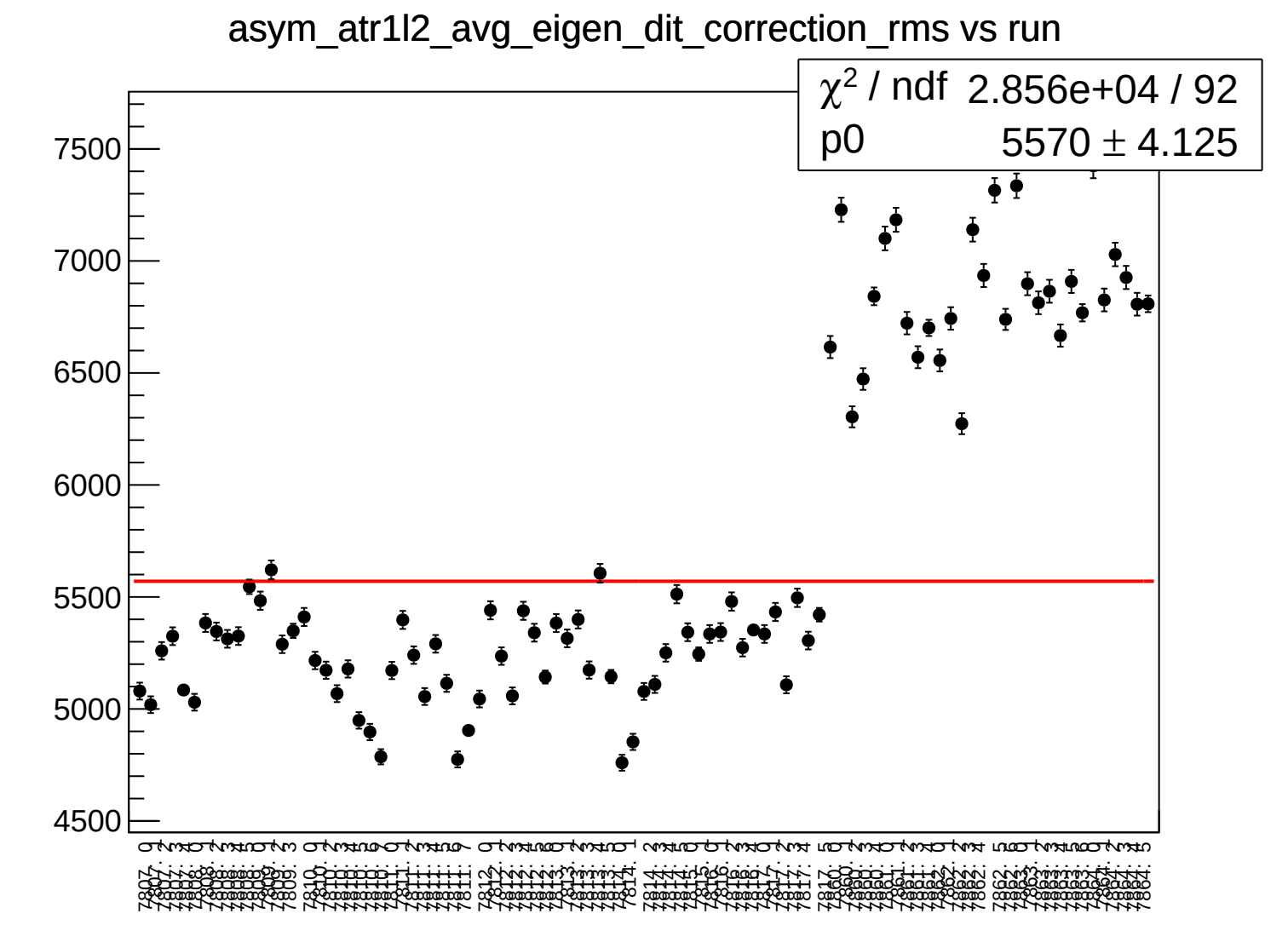

eigen_dit_asym_atr1l2_avg_mean vs run
χ² / ndf 73.09 / 92
p0 −2379 ± 1881
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −205.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

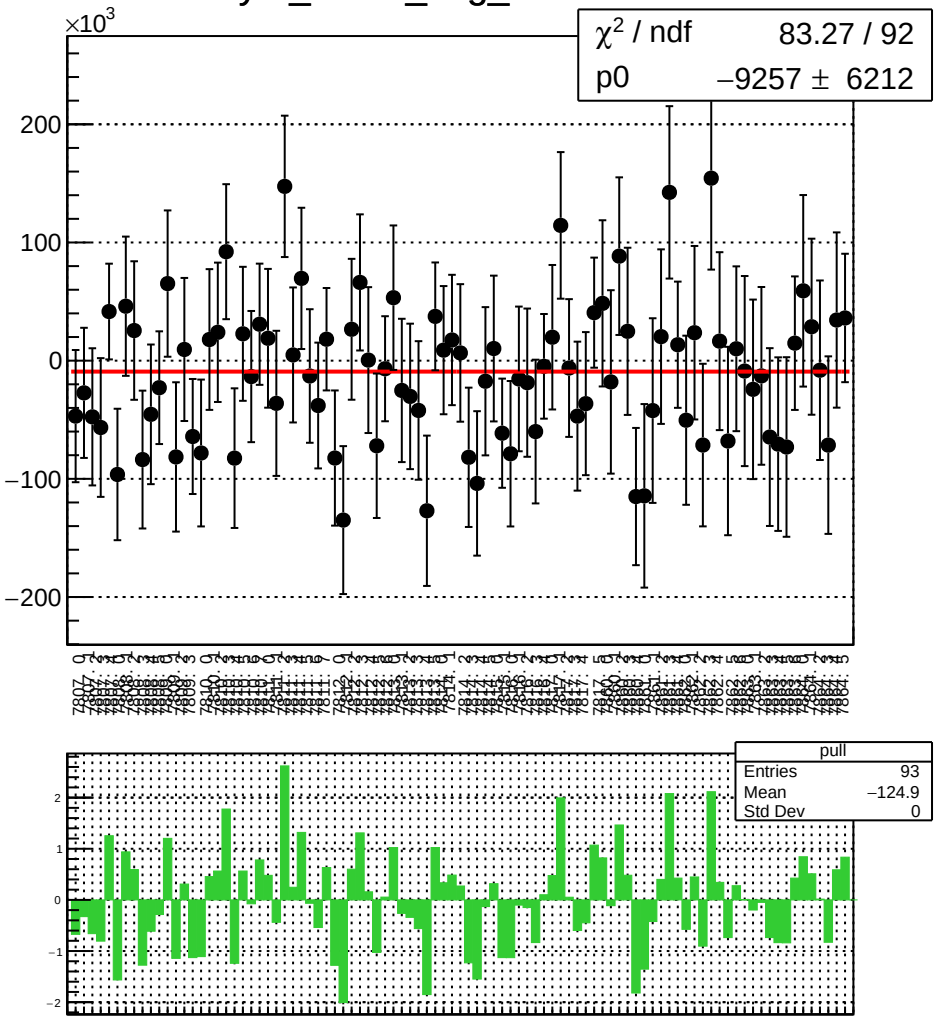

pull1D
Entries 93
Mean −0.01083
Std Dev 0.8865
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

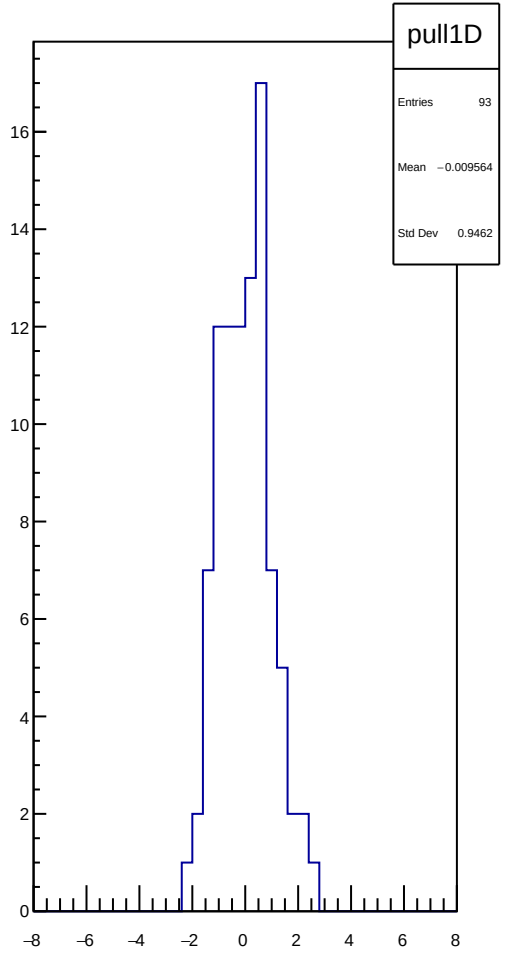

eigen_dit_asym_atr1l2_avg_rms vs run
χ² / ndf 154.4 / 92
p0 1810 ± 1.33
1860
1840
1820
1800
1780
1760
1740


asym_atr1l2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 83.9 / 92
p0 6942 ± 5834
200
100
0
−100
−200
pull
Entries 93
Mean −88.25
Std Dev 0
2
1
0
−1
−2

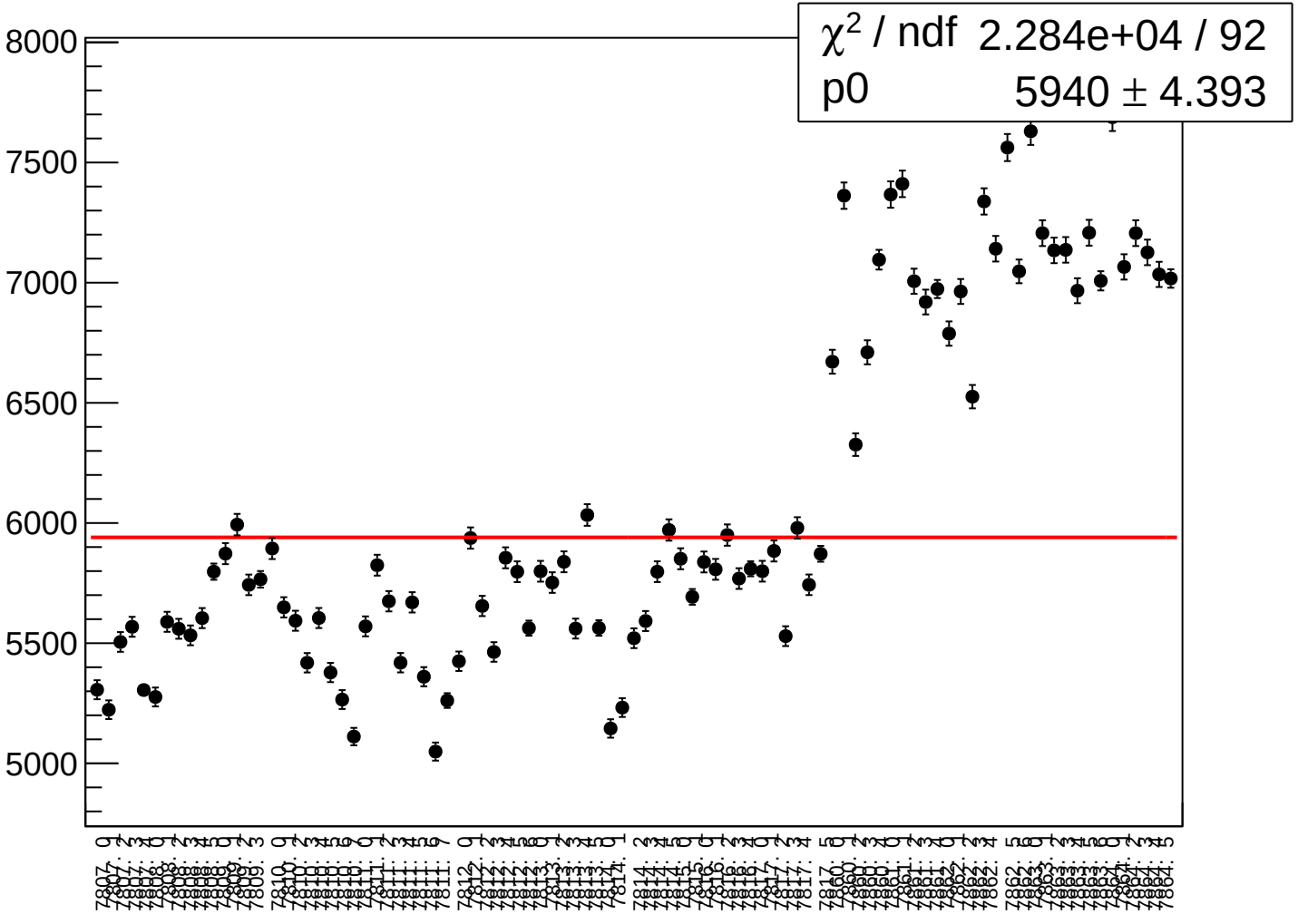

pull1D
Entries 93
Mean 0.006133
Std Dev 0.9498
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

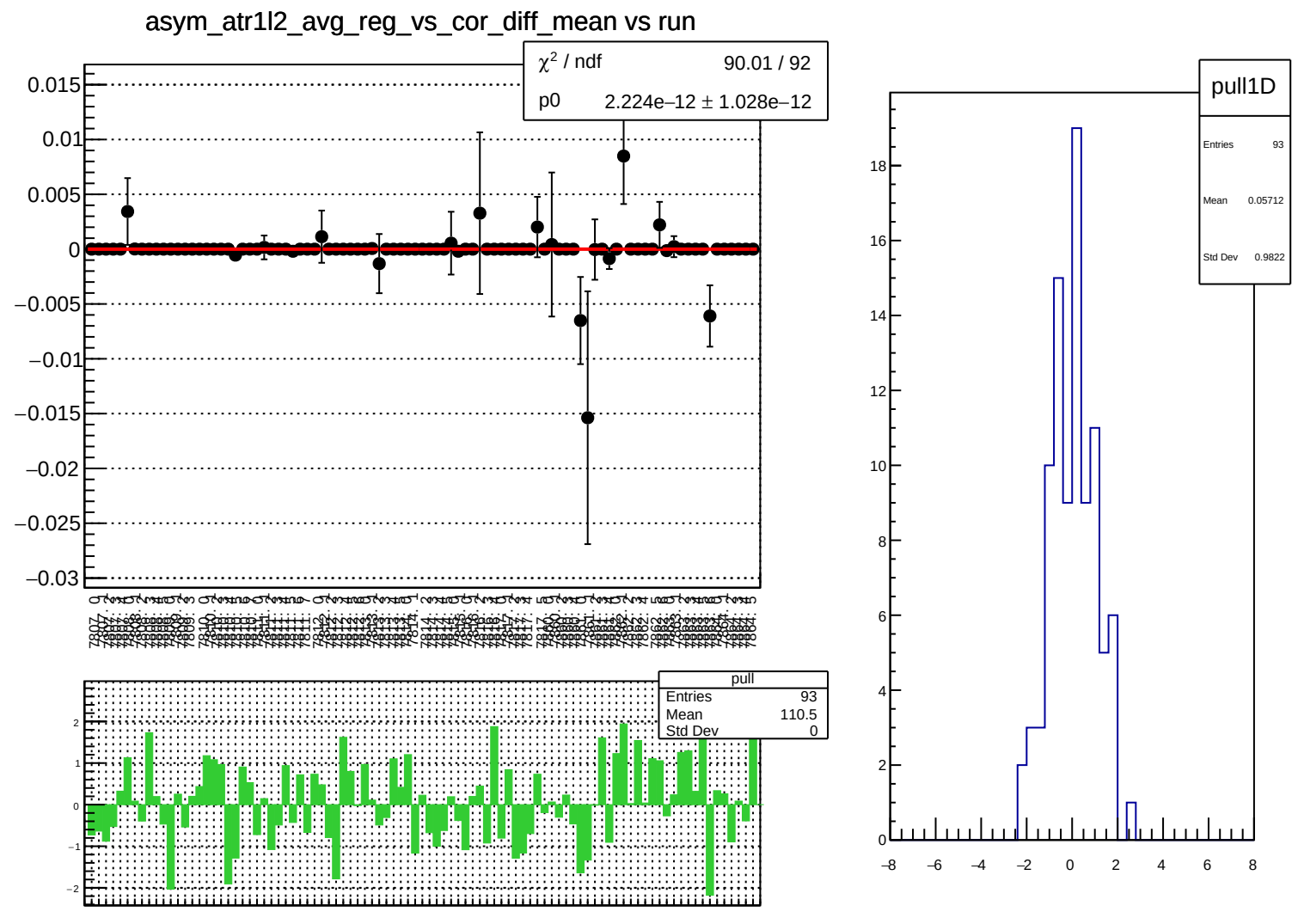

asym_atr1l2_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.856e+04 / 92
p0 5570 ± 4.125
7500
7000
6500
6000
5500
5000
4500

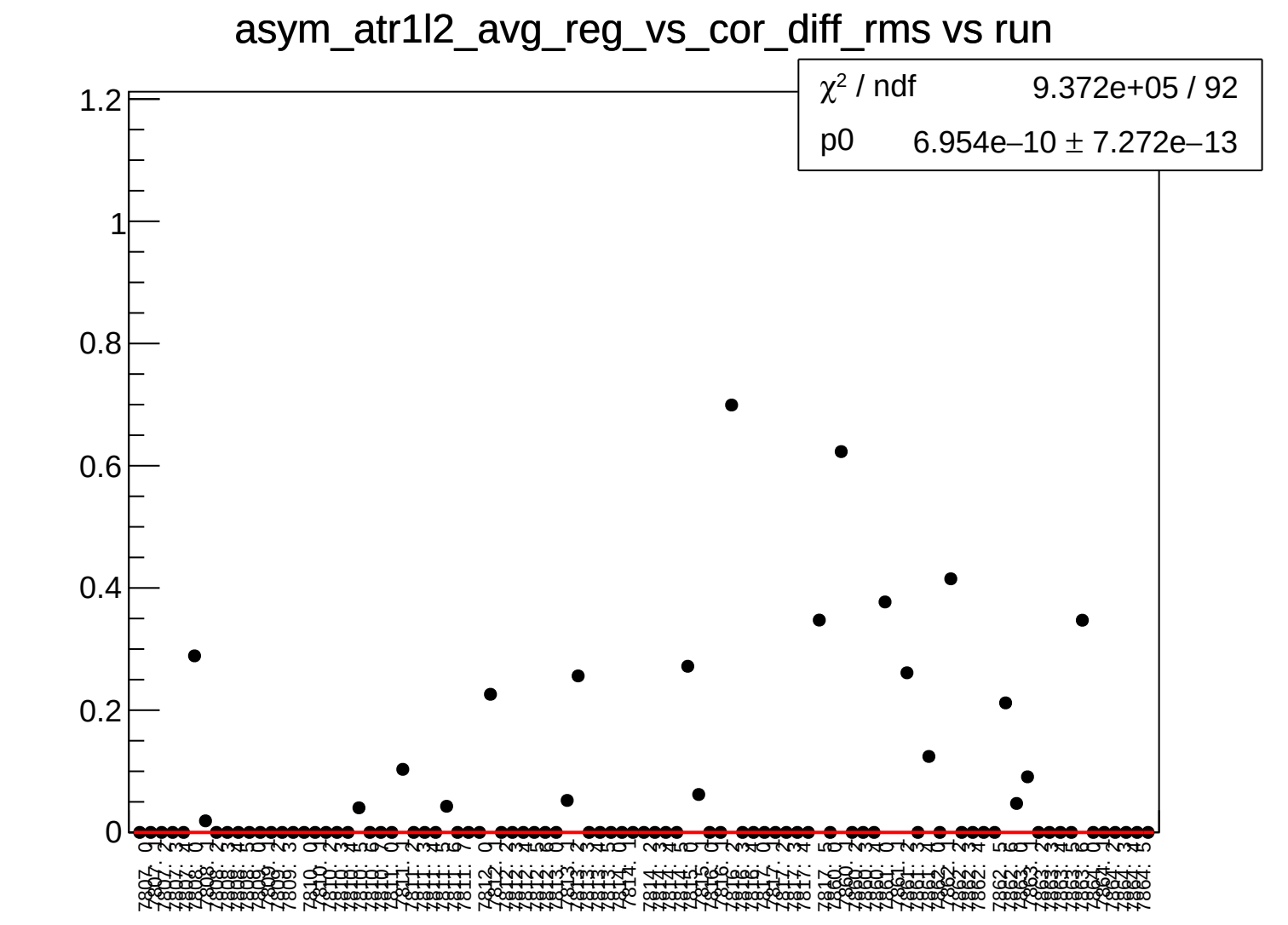

asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 83.27 / 92
p0 −9257 ± 6212
200
100
0
−100
−200
pull
Entries 93
Mean −124.9
Std Dev 0
2
1
0
−1
−2

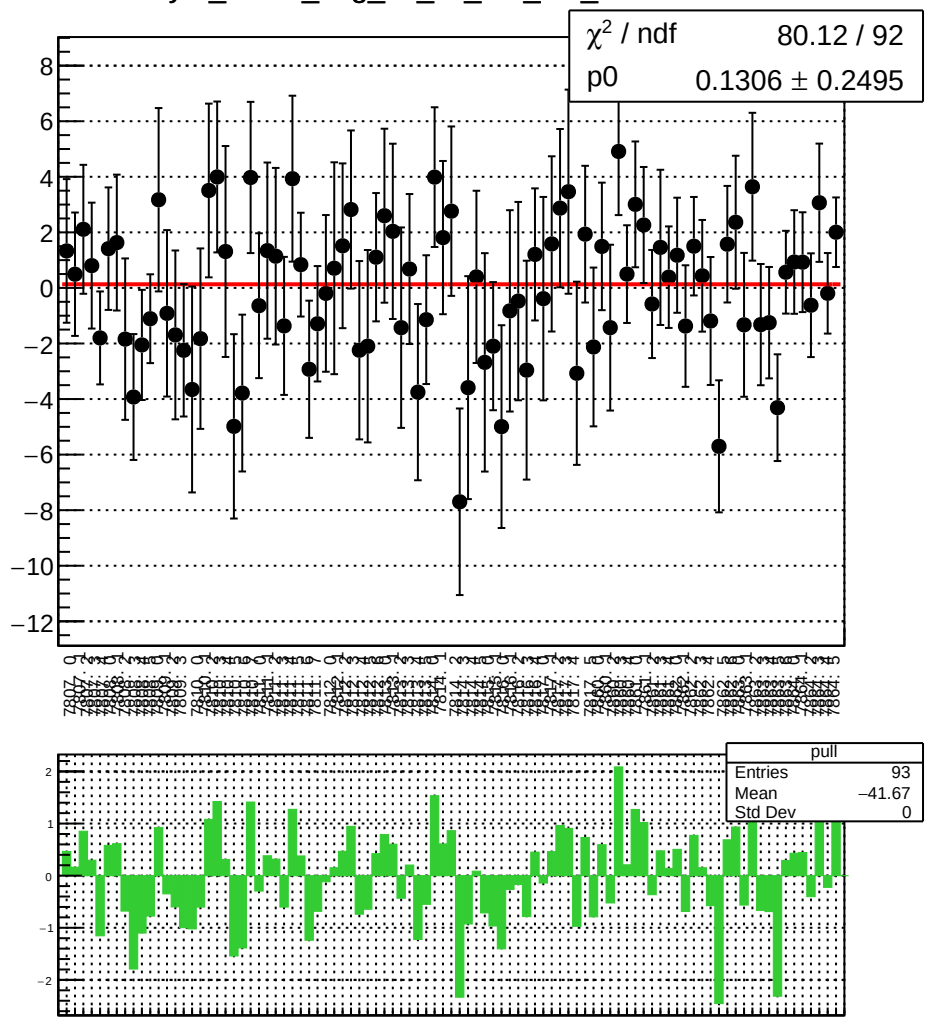

pull1D
Entries 93
Mean −0.009564
Std Dev 0.9462
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

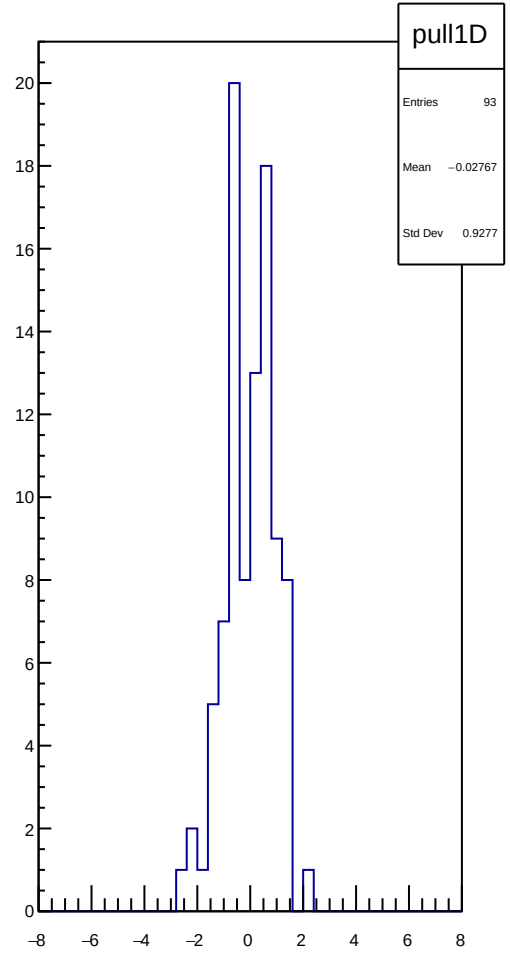
asym_atr1l2_avg_rms vs run

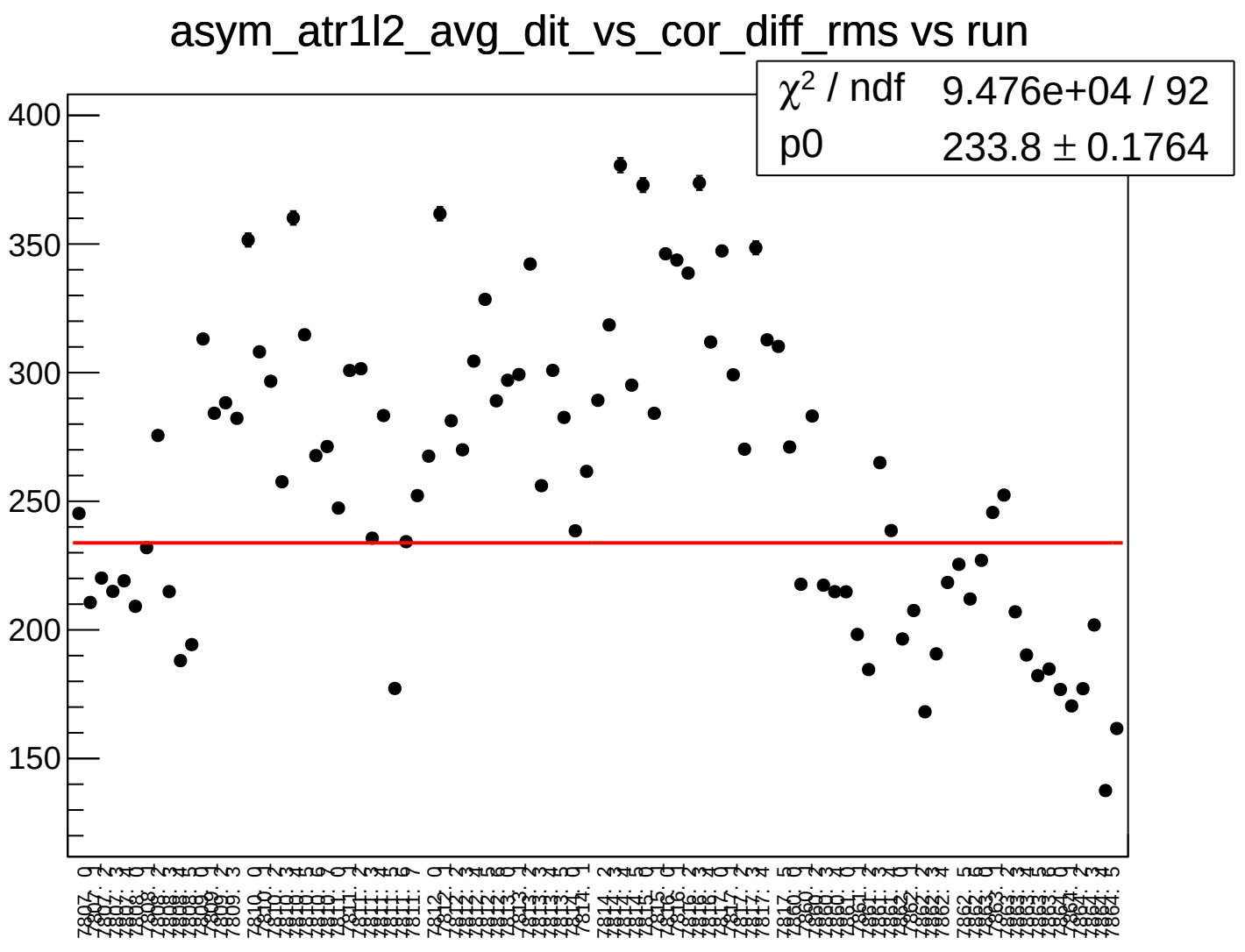


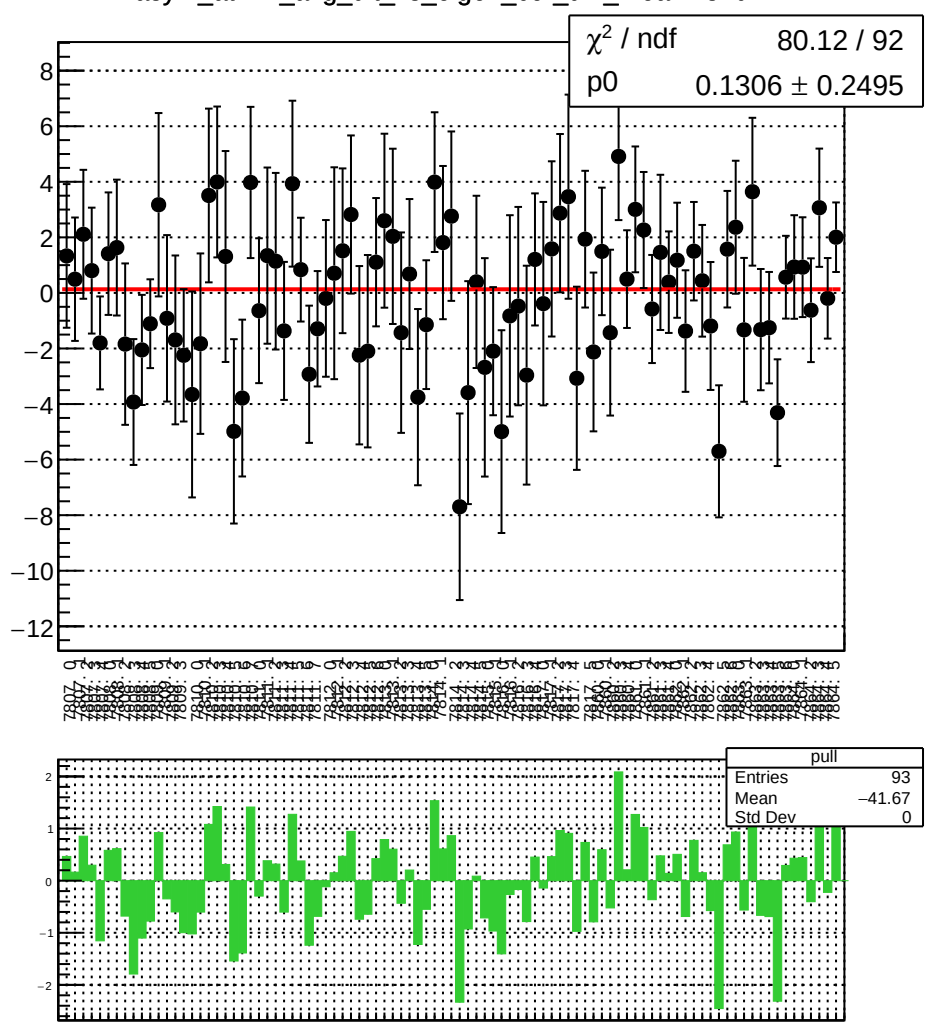

asym_atr1l2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 90.01 / 92
p0 2.224e−12 ± 1.028e−12
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
−0.025
−0.03
pull
Entries 93
Mean 110.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.05712
Std Dev 0.9822
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

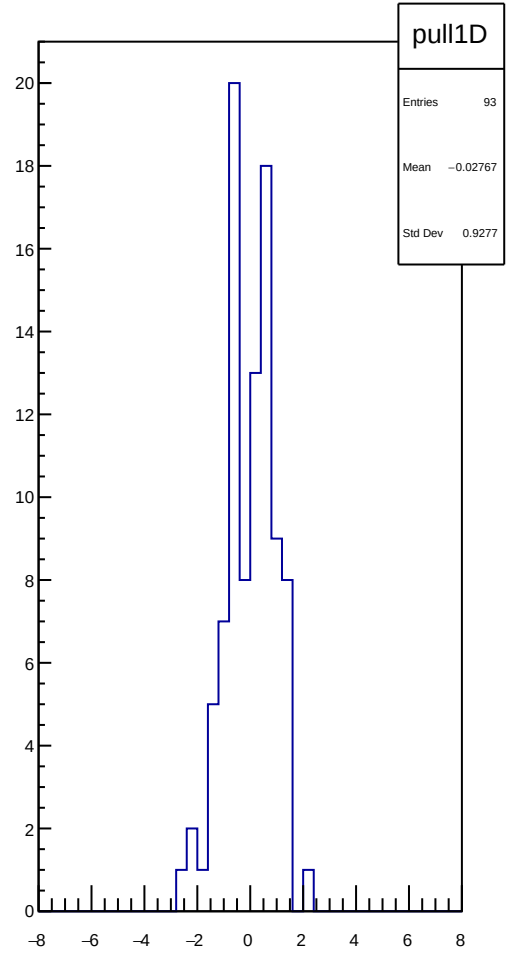

asym_atr1l2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.372e+05 / 92
p0 6.954e−10 ± 7.272e−13
1.2
1
0.8
0.6
0.4
0.2
0

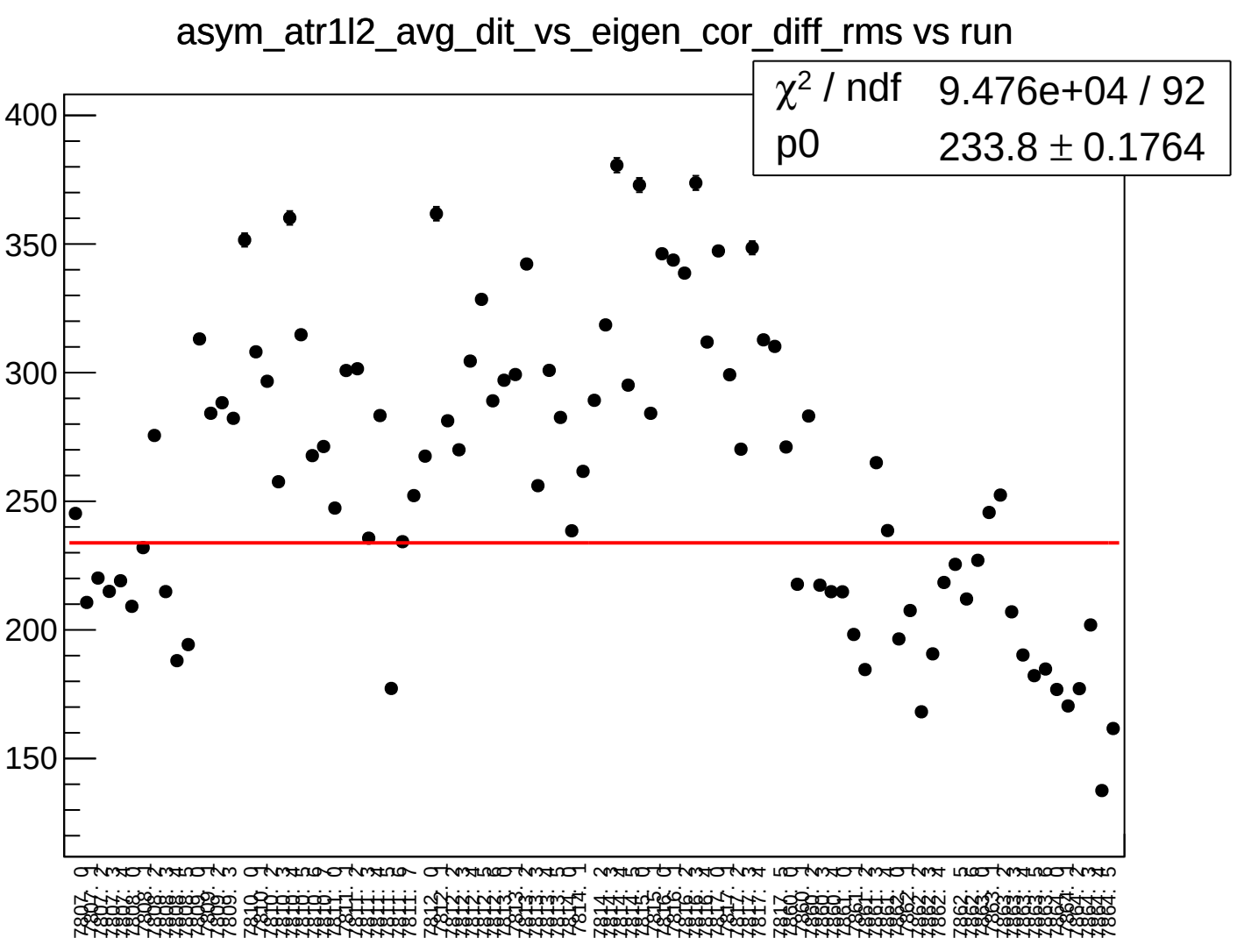

asym_atr1l2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 80.12 / 92
p0 0.1306 ± 0.2495
pull
Entries 93
Mean −41.67
Std Dev 0

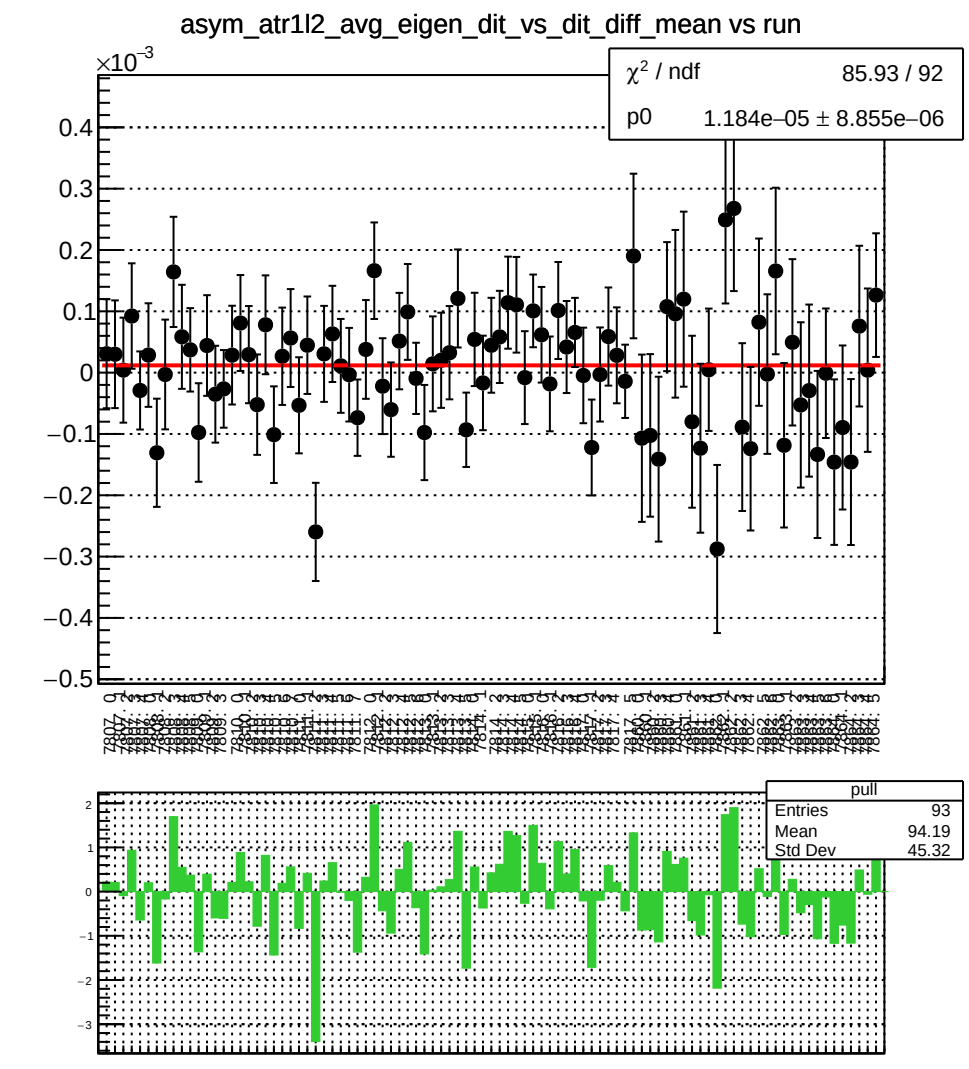

pull1D
Entries 93
Mean −0.02767
Std Dev 0.9277

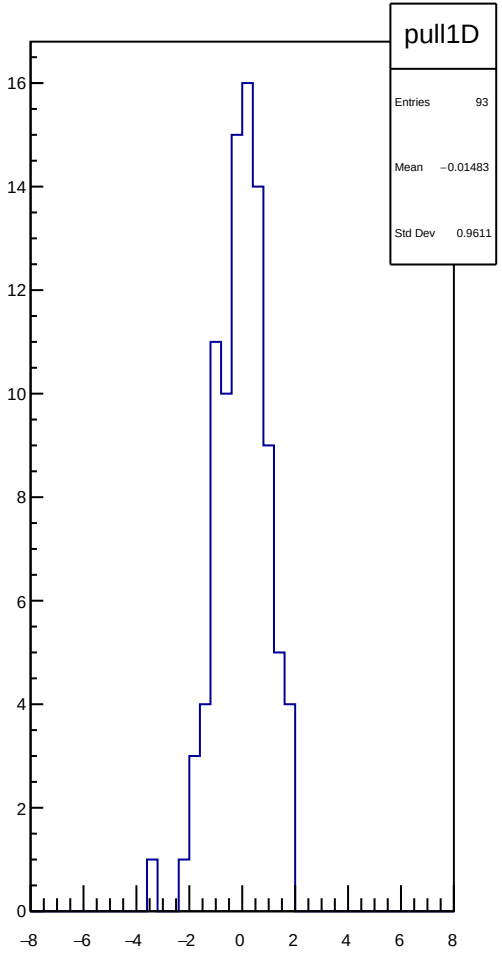

asym_atr1l2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 9.476e+04 / 92
p0 233.8 ± 0.1764
400
350
300
250
200
150

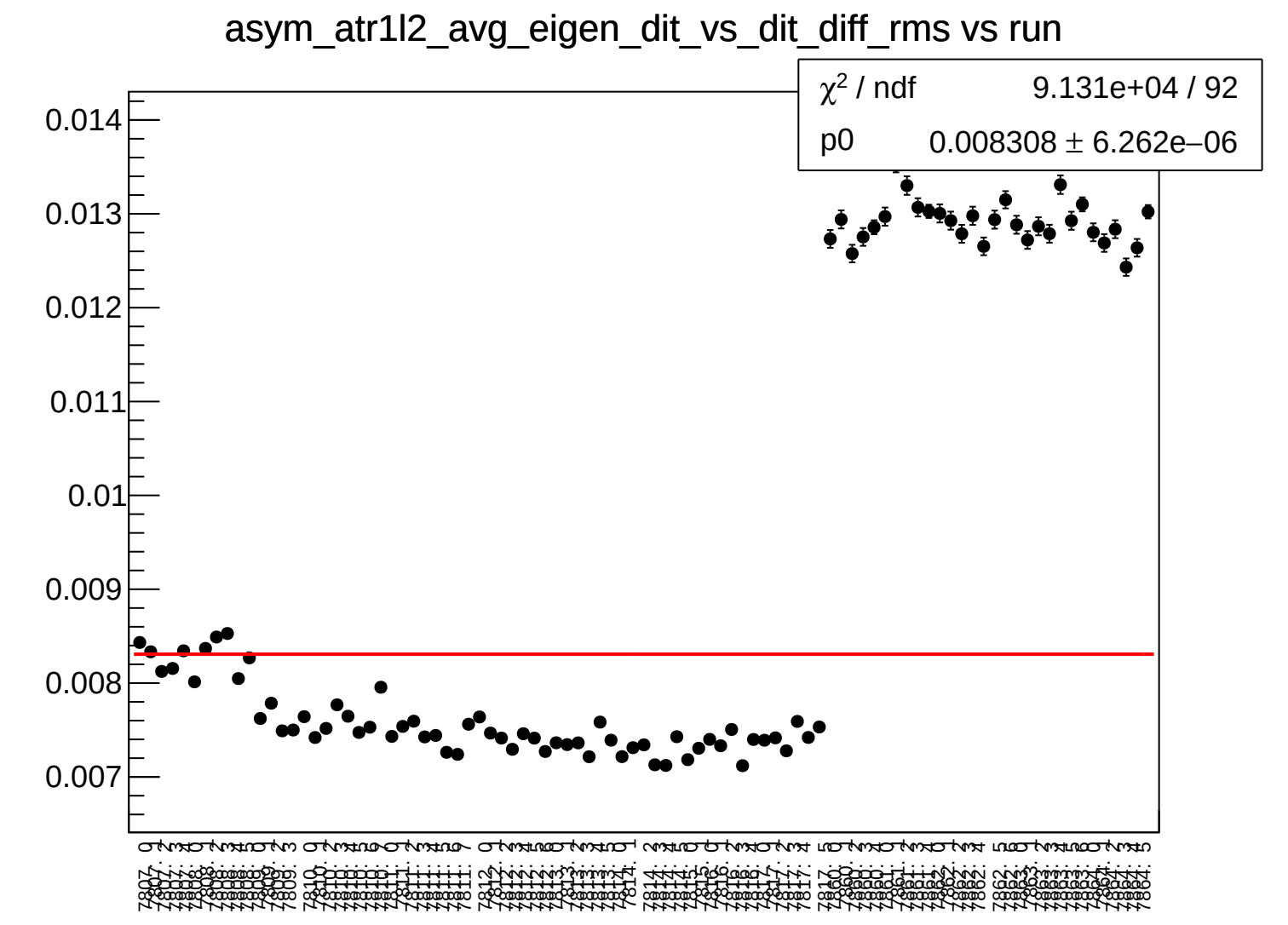

asym_atr1l2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.12 / 92
p0 0.1306 ± 0.2495
pull
Entries 93
Mean −41.67
Std Dev 0

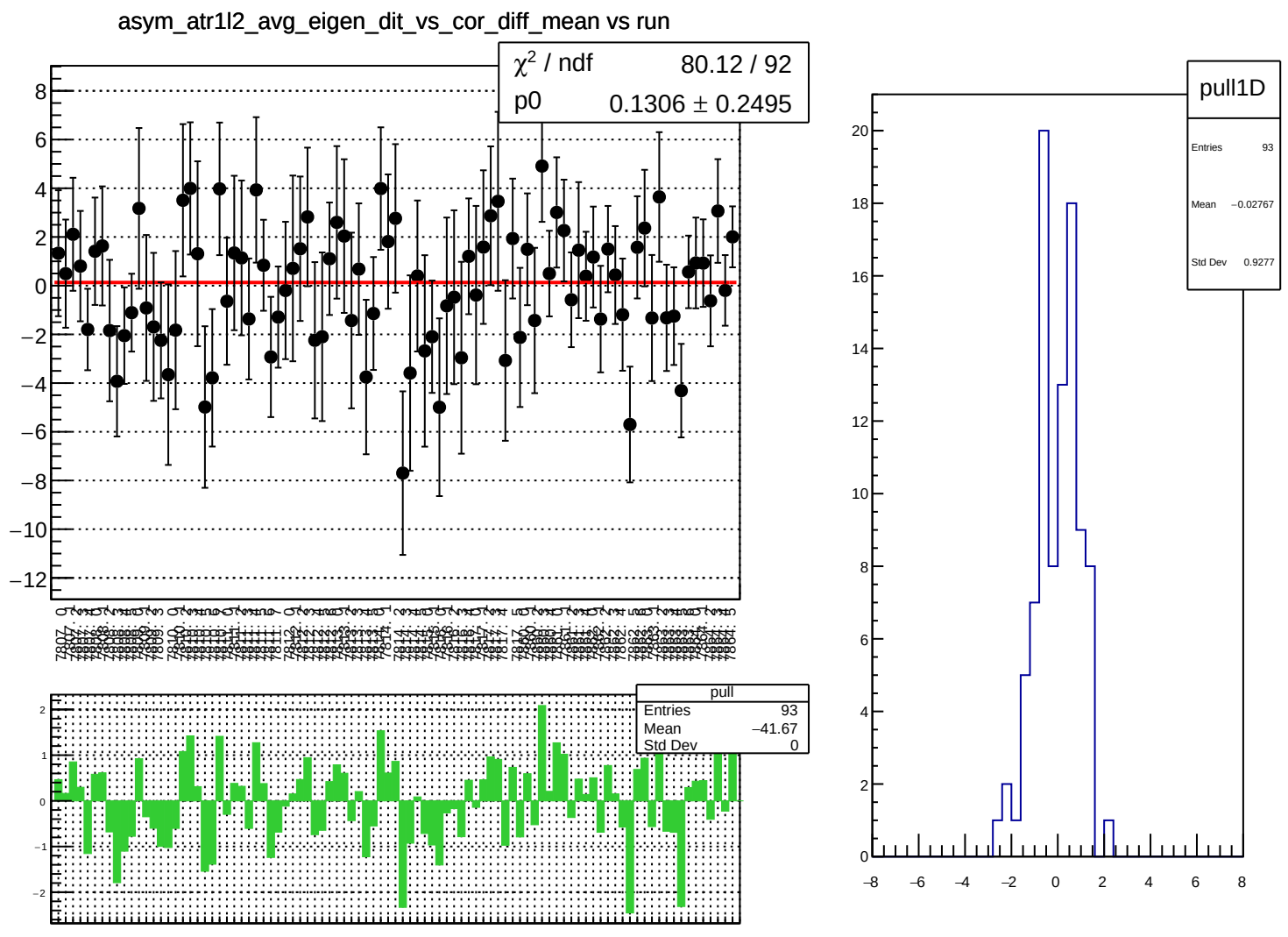

pull1D
Entries 93
Mean −0.02767
Std Dev 0.9277

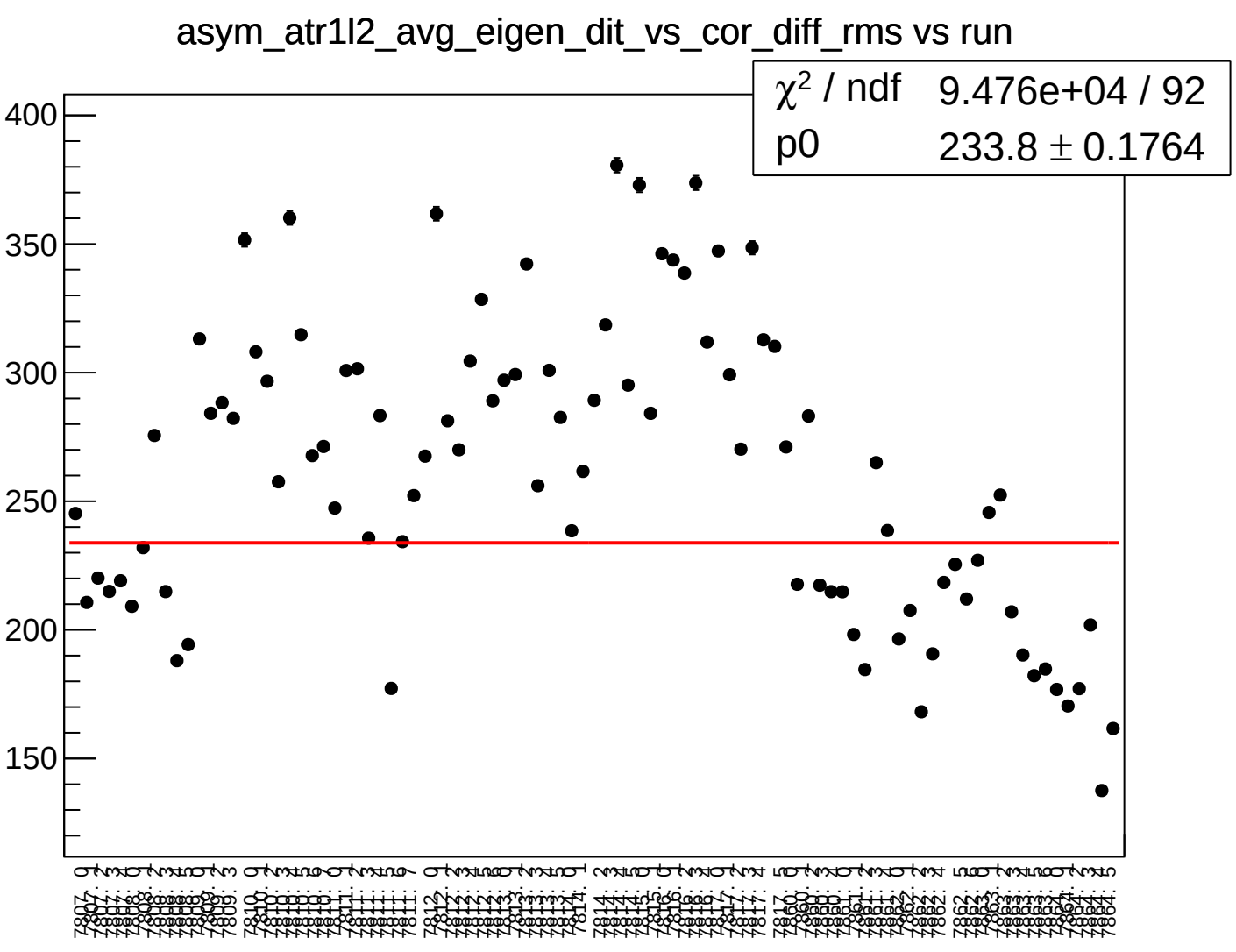

asym_atr1l2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.476e+04 / 92
p0 233.8 ± 0.1764
400
350
300
250
200
150

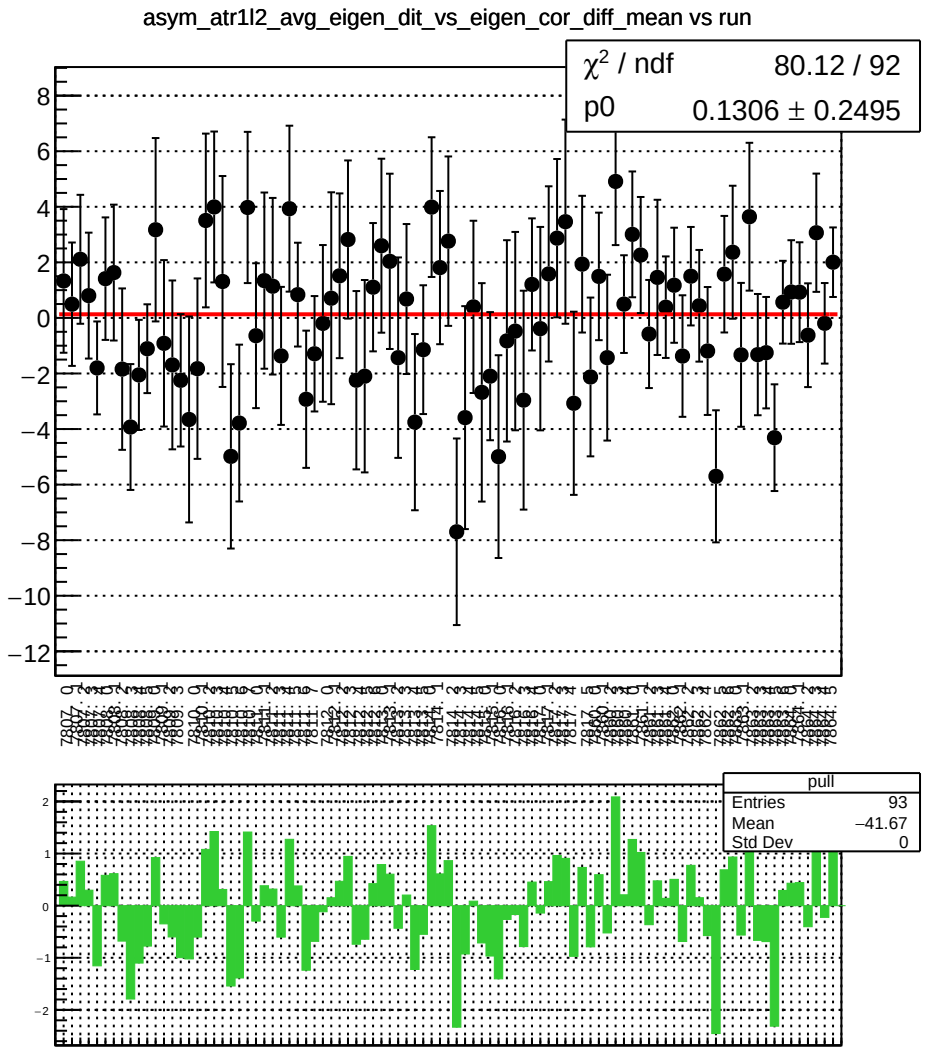

asym_atr1l2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.93 / 92
p0 1.184e−05 ± 8.855e−06
pull
Entries 93
Mean 94.19
Std Dev 45.32

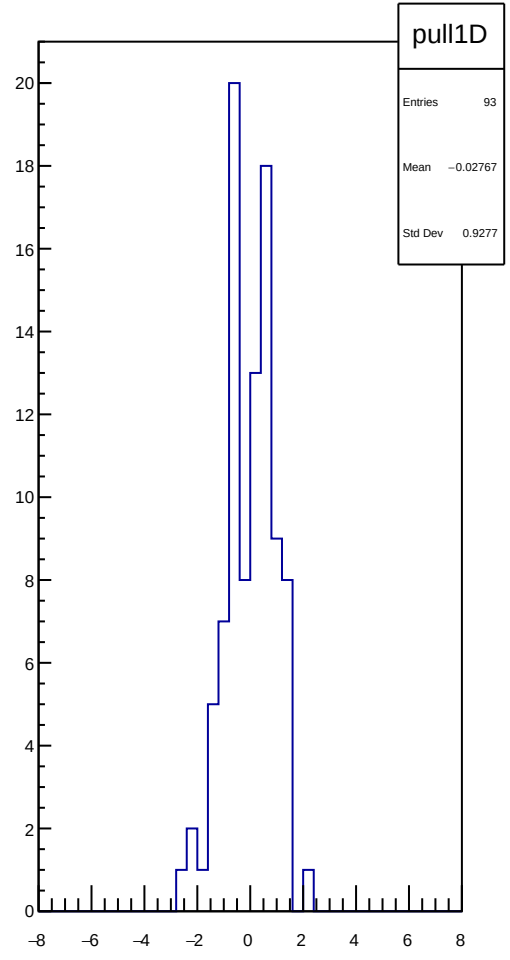

pull1D
Entries 93
Mean −0.01483
Std Dev 0.9611

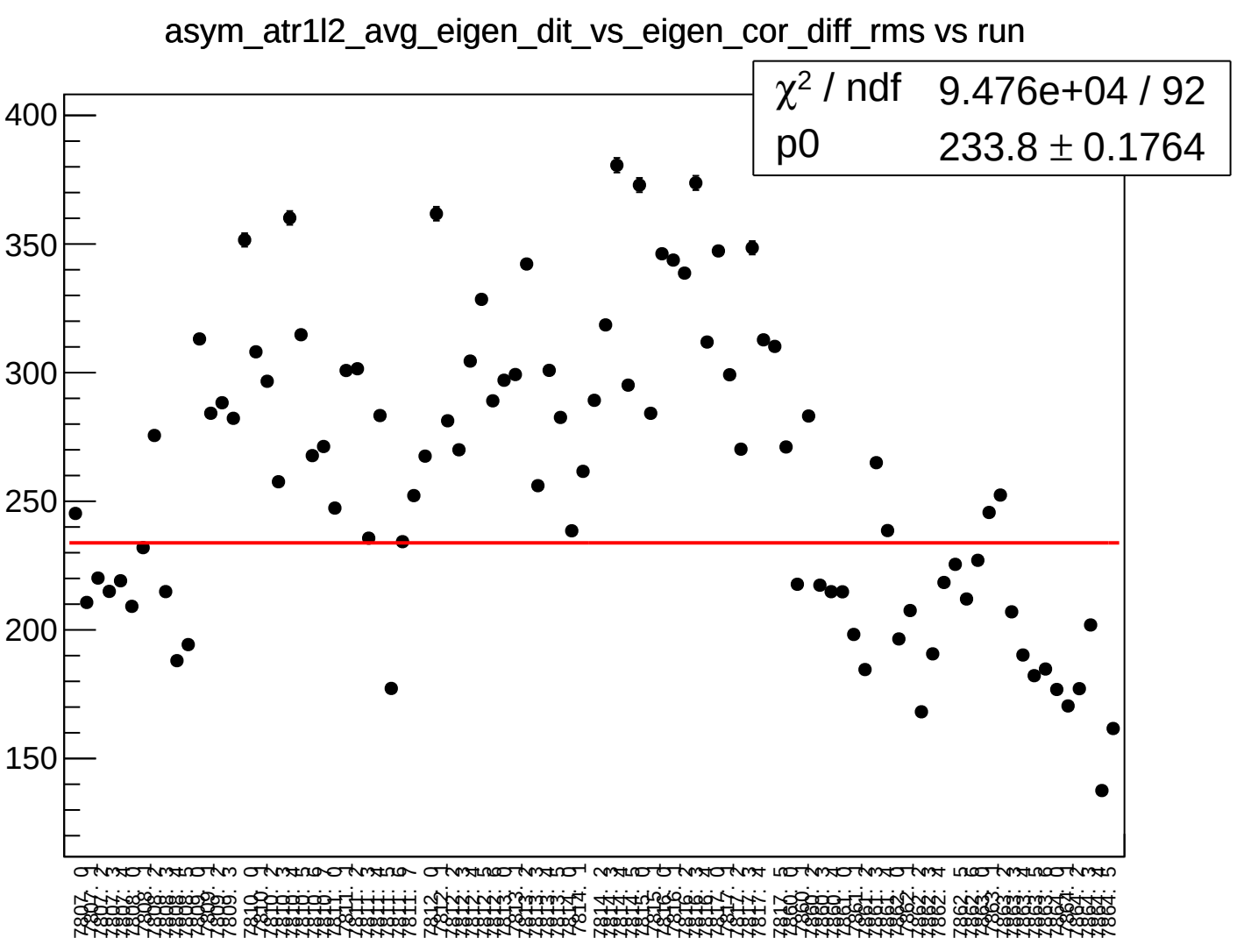

asym_atr1l2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.131e+04 / 92
p0 0.008308 ± 6.262e−06
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007

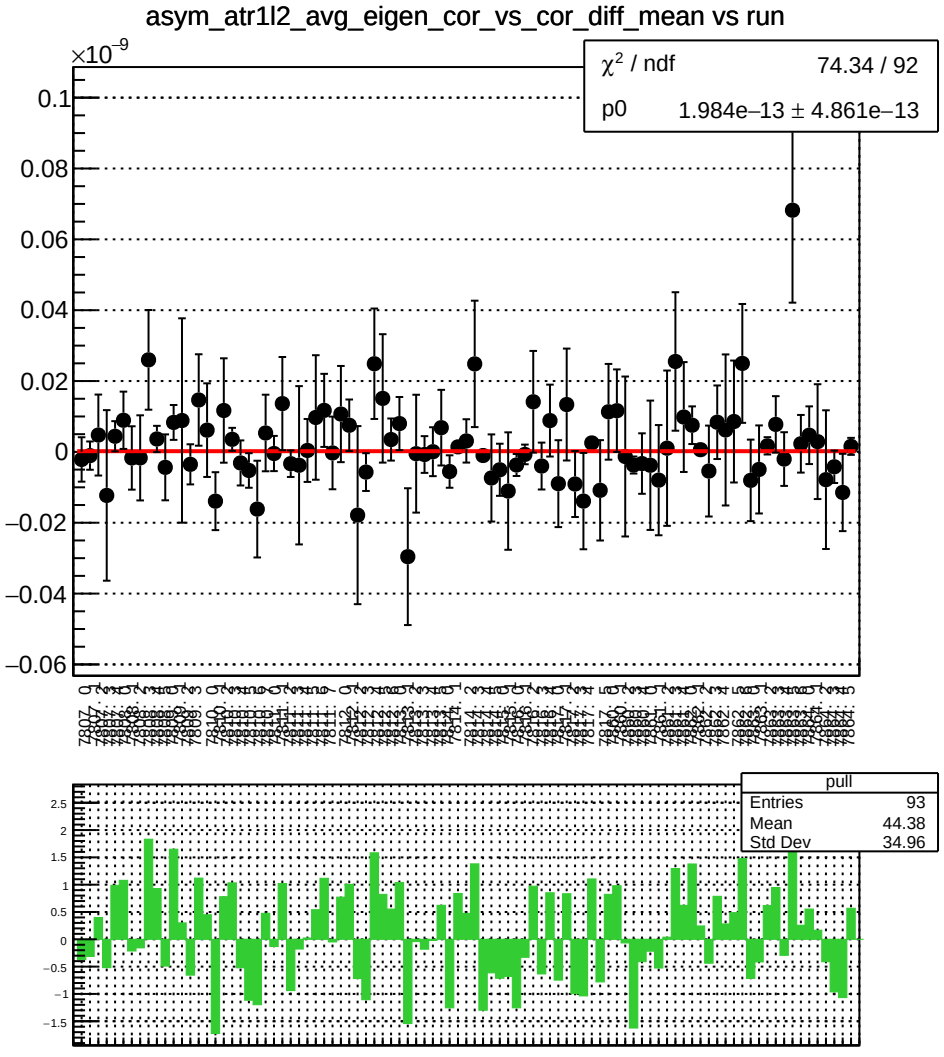

asym_atr1l2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.12 / 92
p0 0.1306 ± 0.2495
pull
Entries 93
Mean −41.67
Std Dev 0
pull1D
Entries 93
Mean −0.02767
Std Dev 0.9277

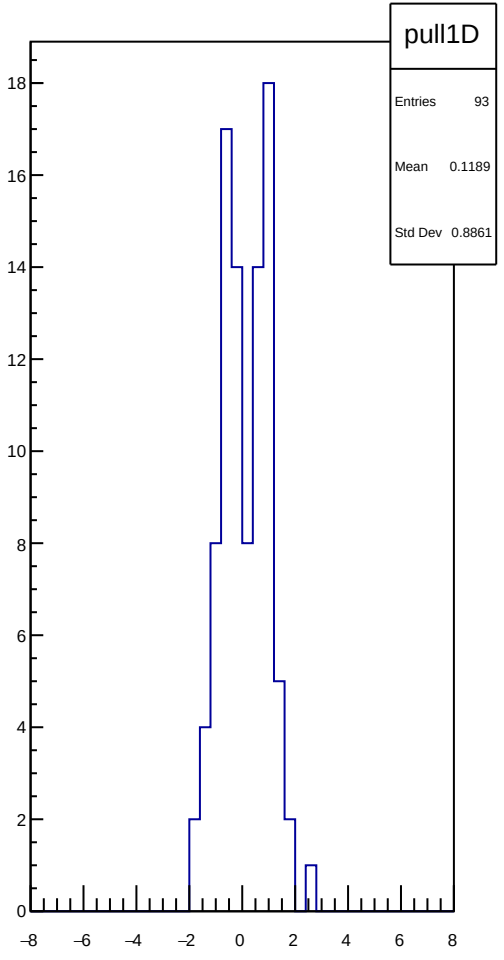

asym_atr1l2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.476e+04 / 92
p0 233.8 ± 0.1764
400
350
300
250
200
150

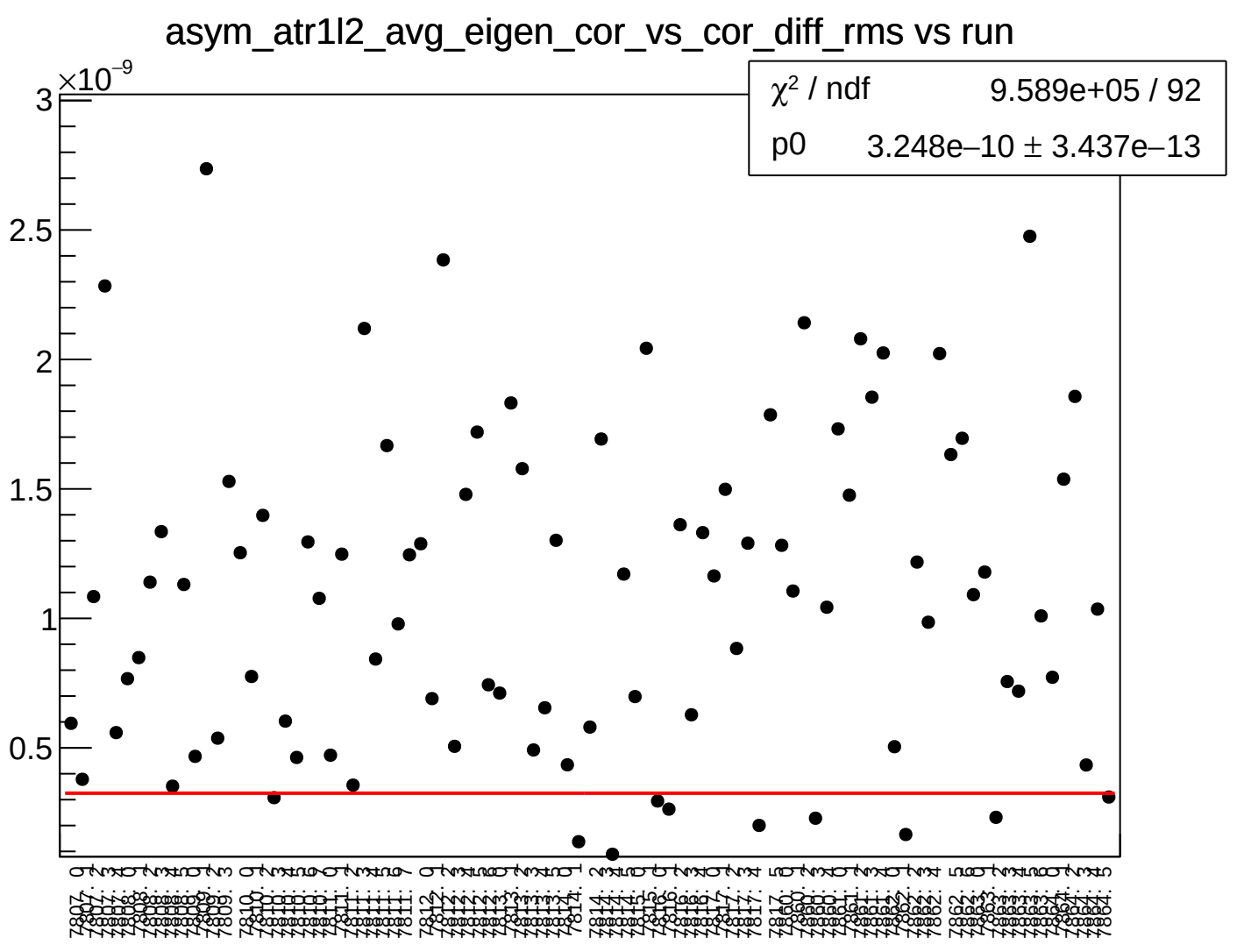

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.12 / 92
p0 0.1306 ± 0.2495
pull
Entries 93
Mean −41.67
Std Dev 0

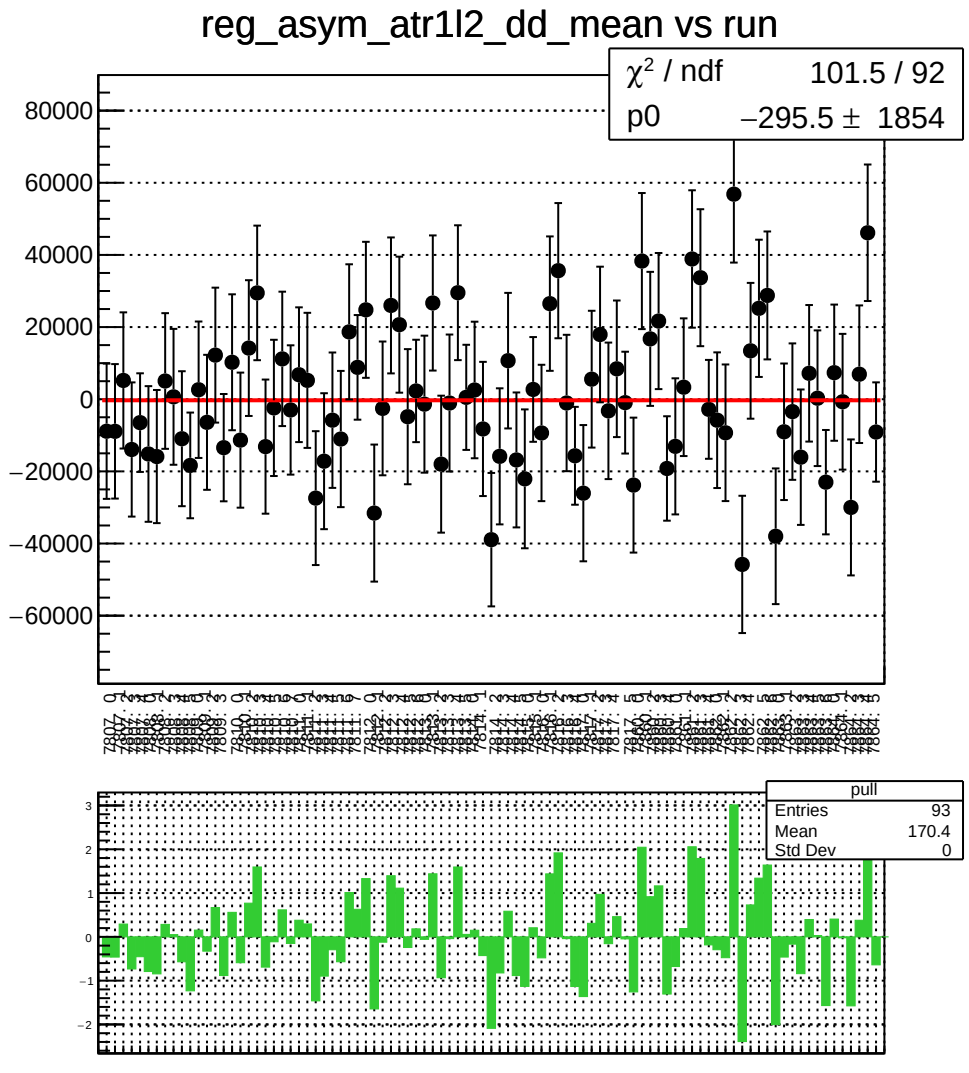

pull1D
Entries 93
Mean −0.02767
Std Dev 0.9277

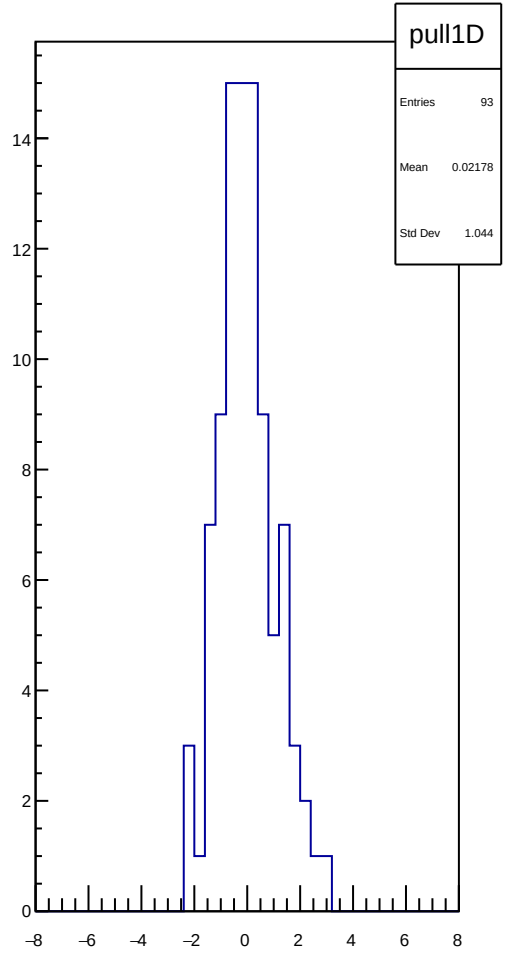

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.476e+04 / 92
p0 233.8 ± 0.1764
400
350
300
250
200
150

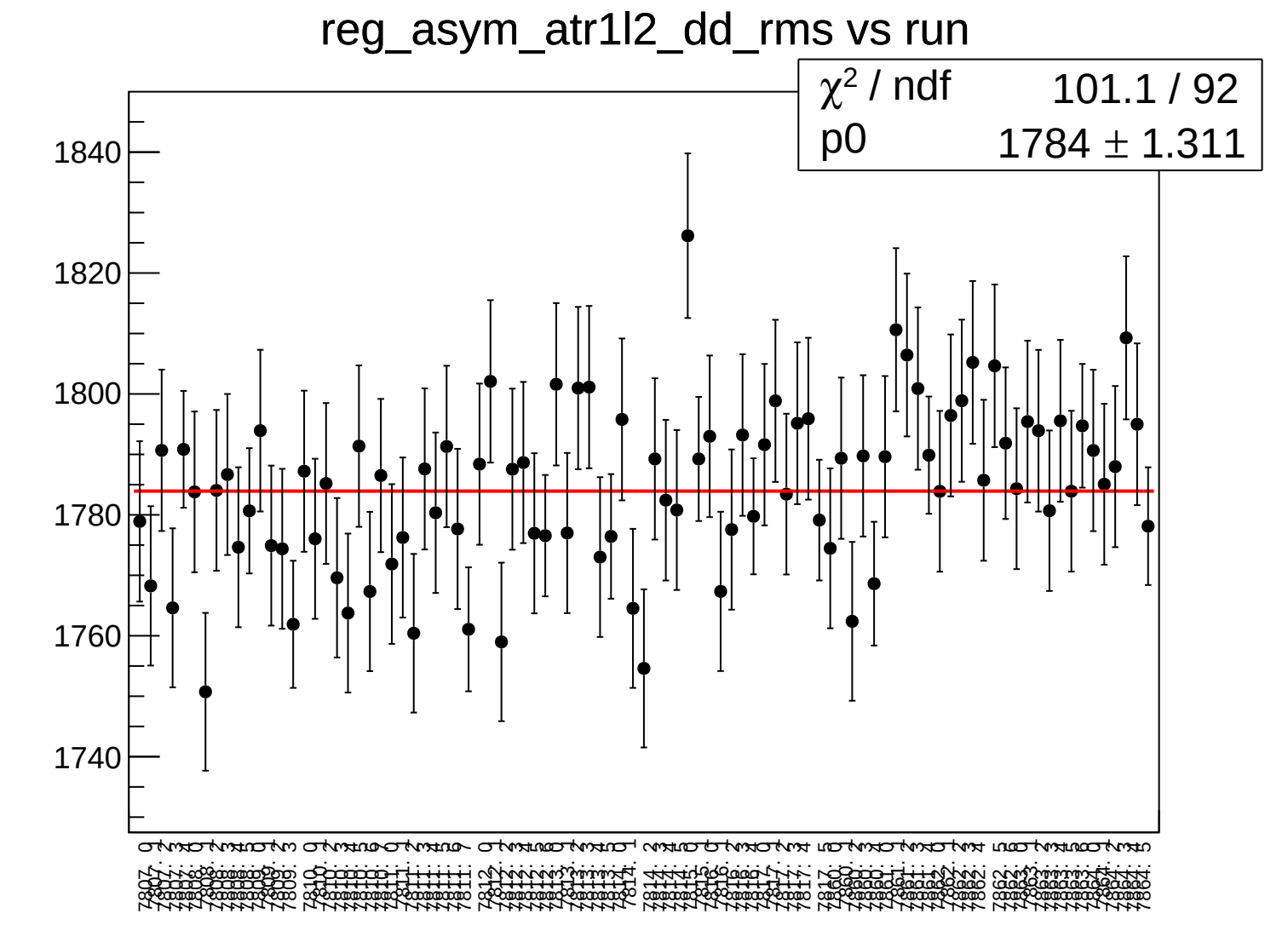

asym_atr1l2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 74.34 / 92
p0 1.984e−13 ± 4.861e−13
0.1
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 93
Mean 44.38
Std Dev 34.96
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

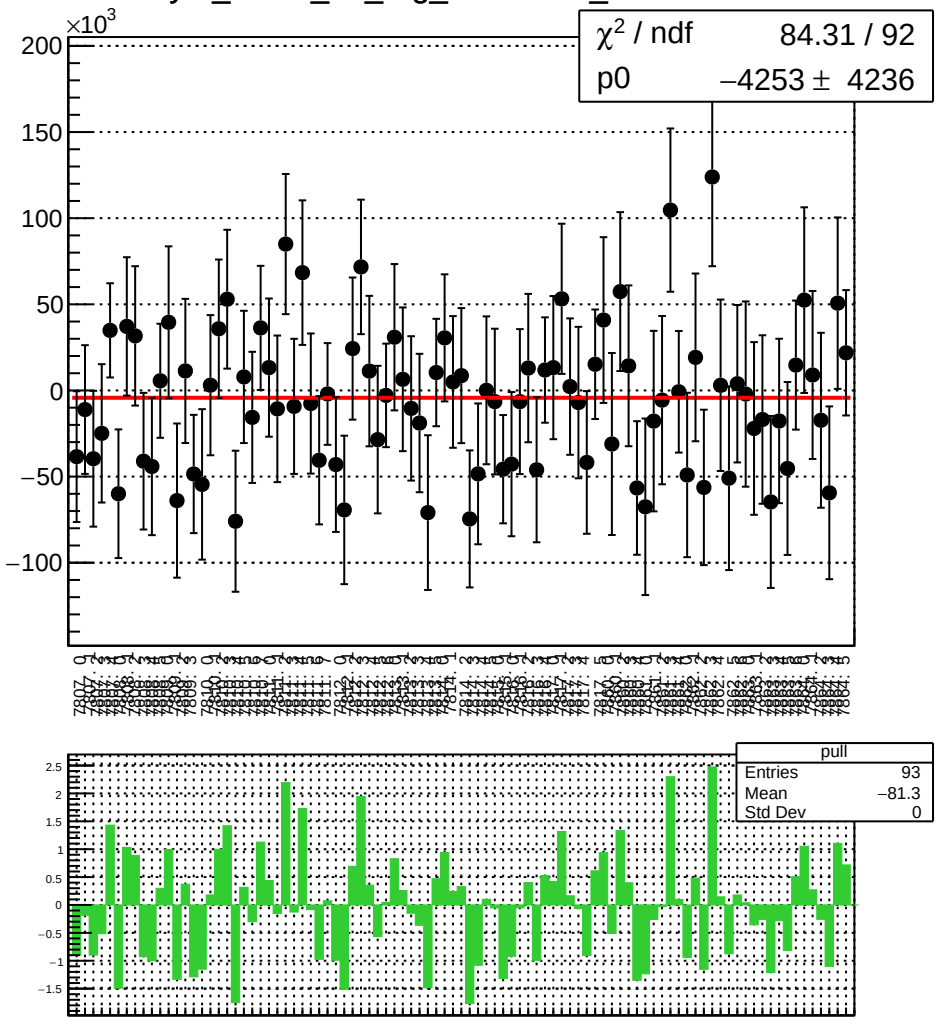

pull1D
Entries 93
Mean 0.1189
Std Dev 0.8861
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

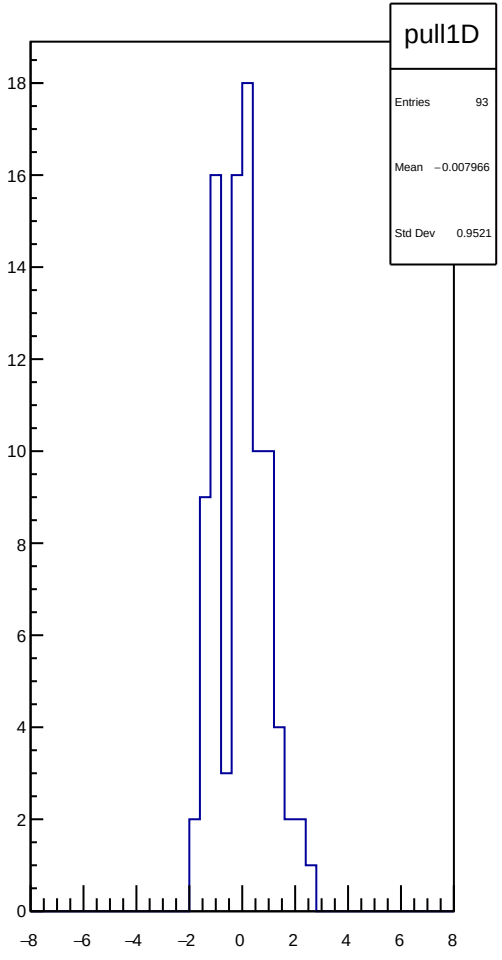

asym_atr1l2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
3
2.5
2
1.5
1
0.5
χ² / ndf 9.589e+05 / 92
p0 3.248e−10 ± 3.437e−13

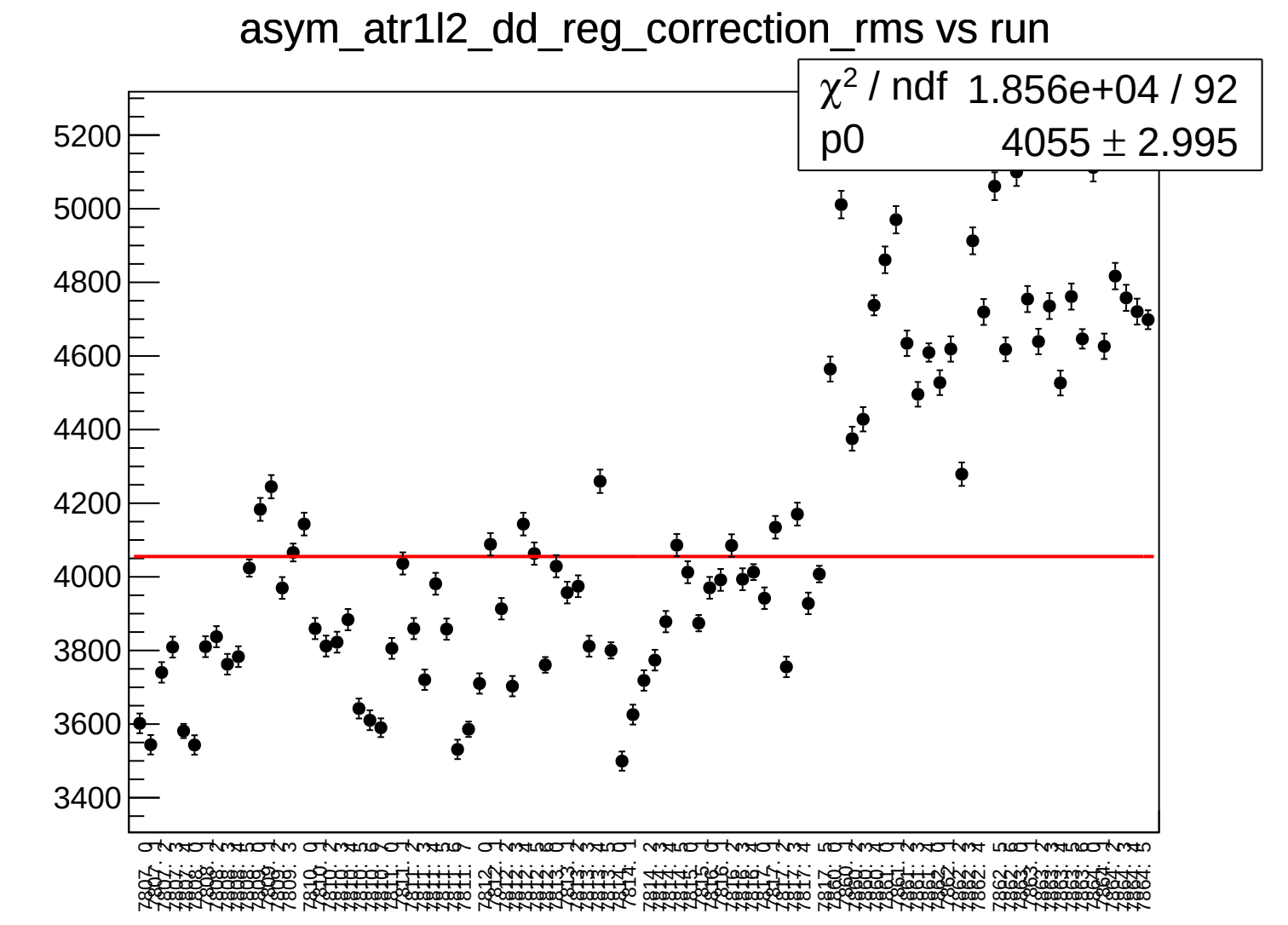

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 101.5 / 92
p0 −295.5 ± 1854
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 170.4
Std Dev 0
3
2
1
0
−1
−2

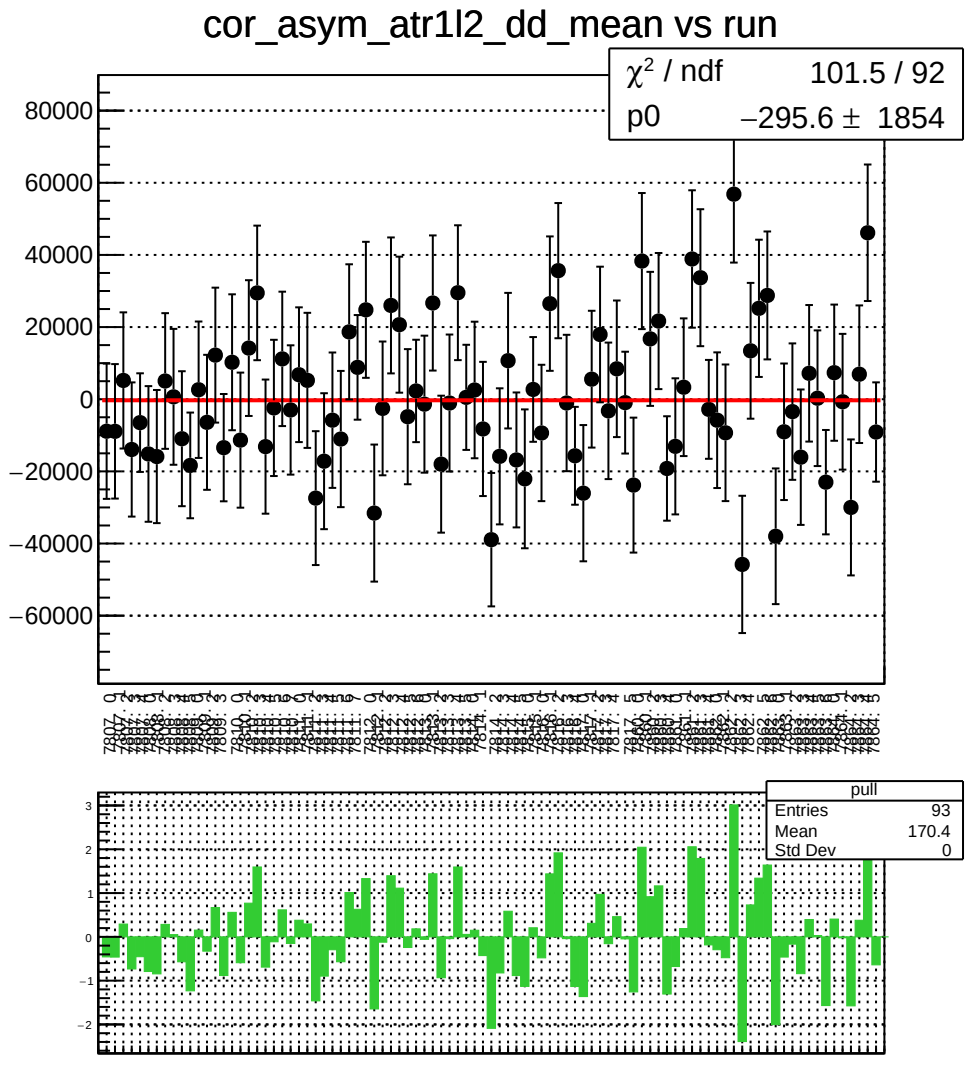

pull1D
Entries 93
Mean 0.02178
Std Dev 1.044
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

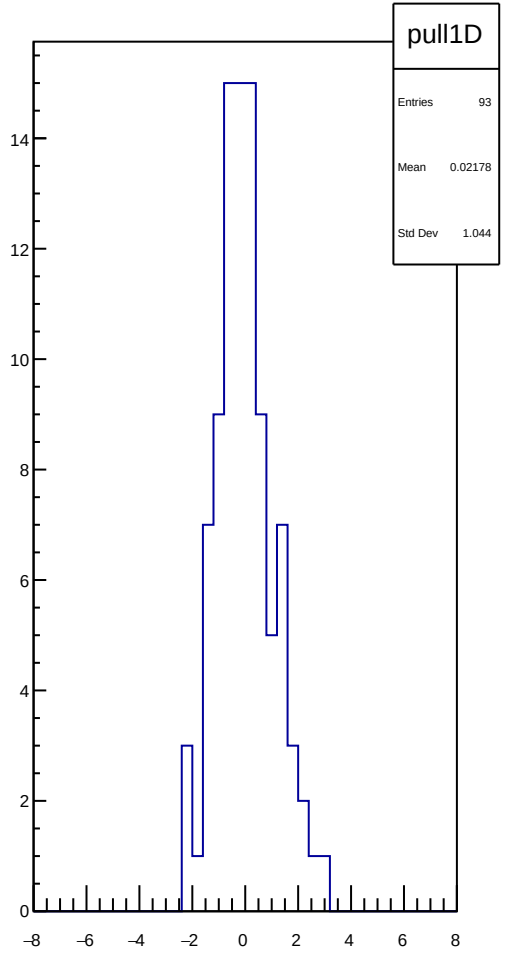

reg_asym_atr1l2_dd_rms vs run
χ^2 / ndf 101.1 / 92
p0 1784 ± 1.311
1840
1820
1800
1780
1760
1740

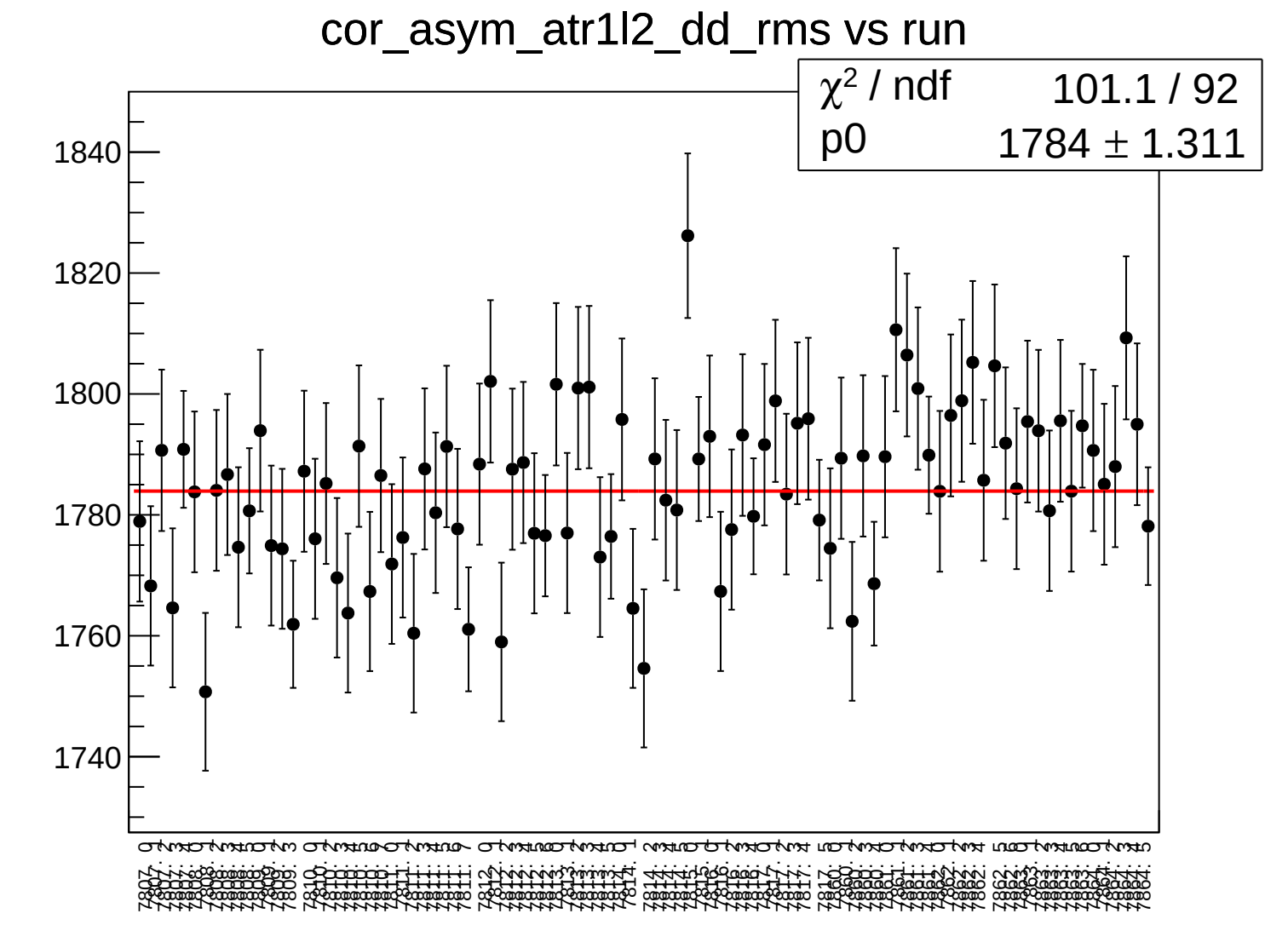

asym_atr1l2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 84.31 / 92
p0 −4253 ± 4236
pull
Entries 93
Mean −81.3
Std Dev 0

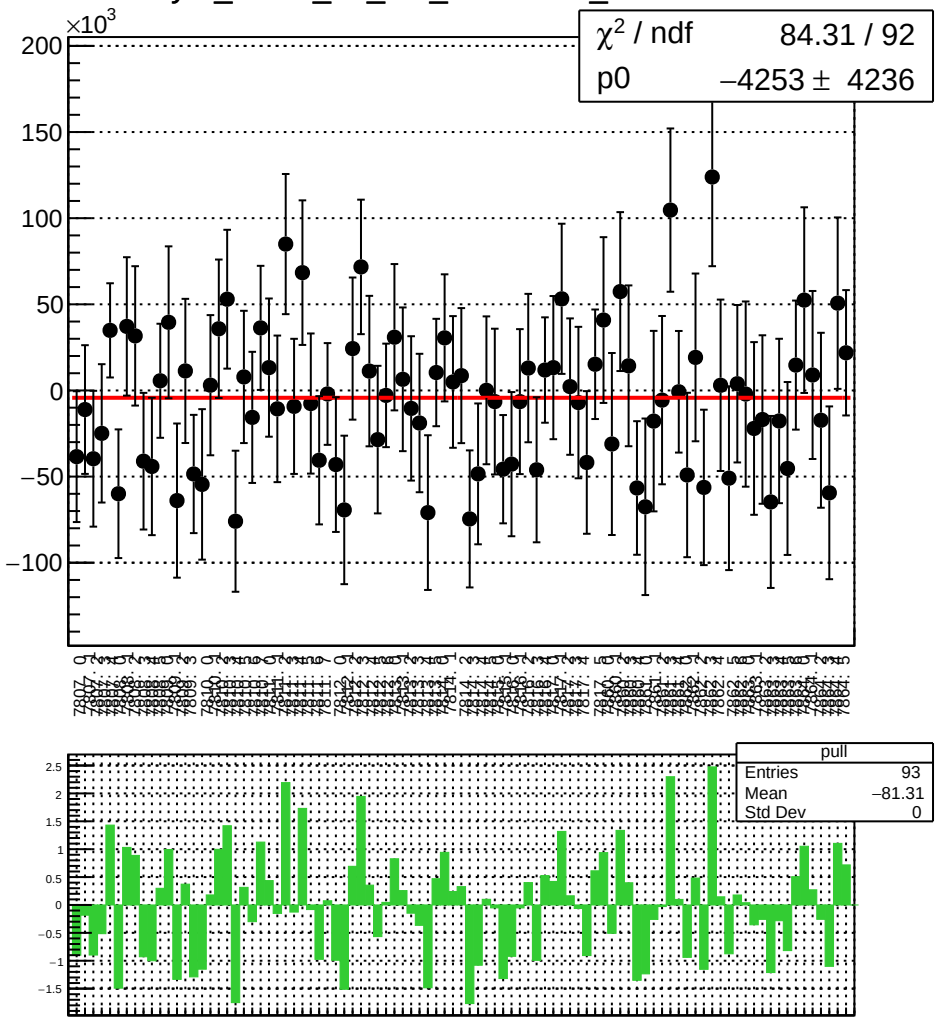

pull1D
Entries 93
Mean −0.007966
Std Dev 0.9521

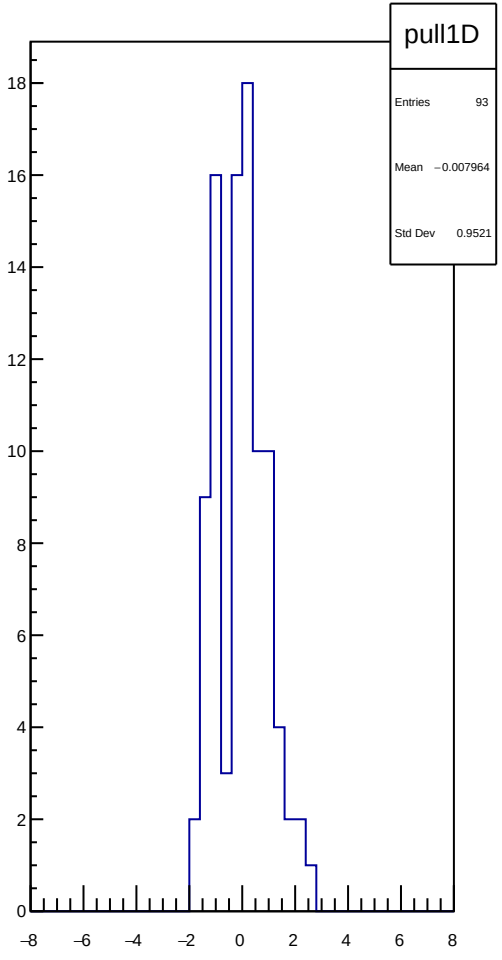

asym_atr1l2_dd_reg_correction_rms vs run
χ² / ndf 1.856e+04 / 92
p0 4055 ± 2.995
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400

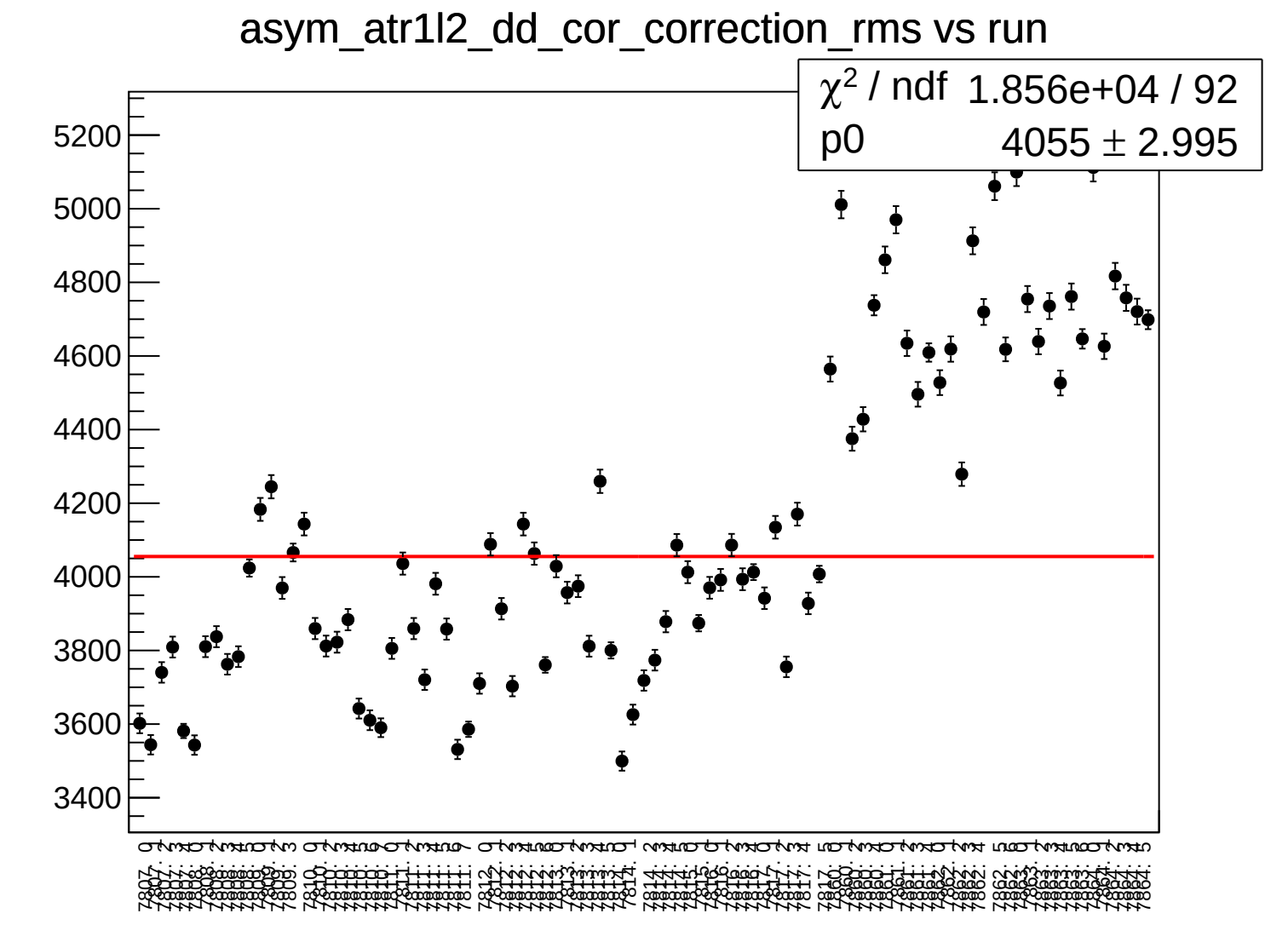

cor_asym_atr1l2_dd_mean vs run
χ² / ndf 101.5 / 92
p0 −295.6 ± 1854
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 170.4
Std Dev 0
3
2
1
0
−1
−2

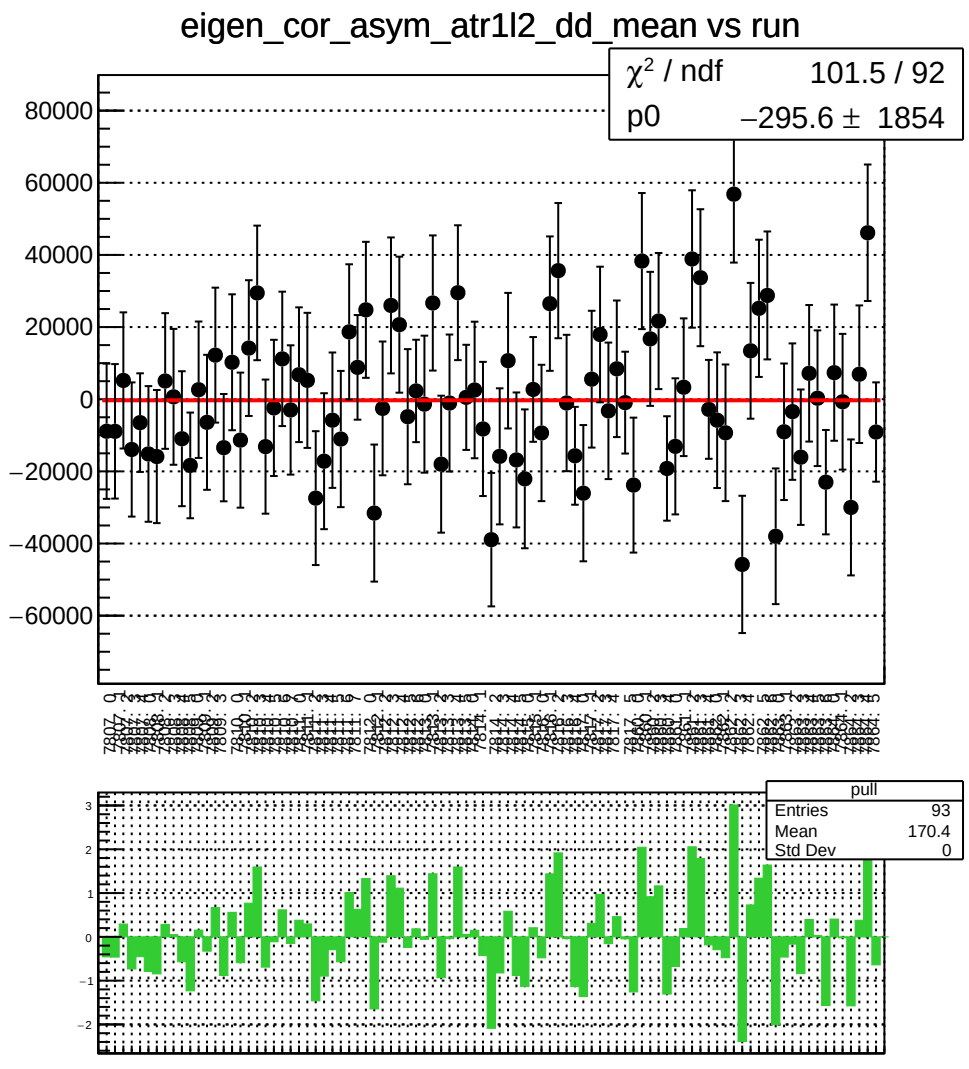

pull1D
Entries 93
Mean 0.02178
Std Dev 1.044
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

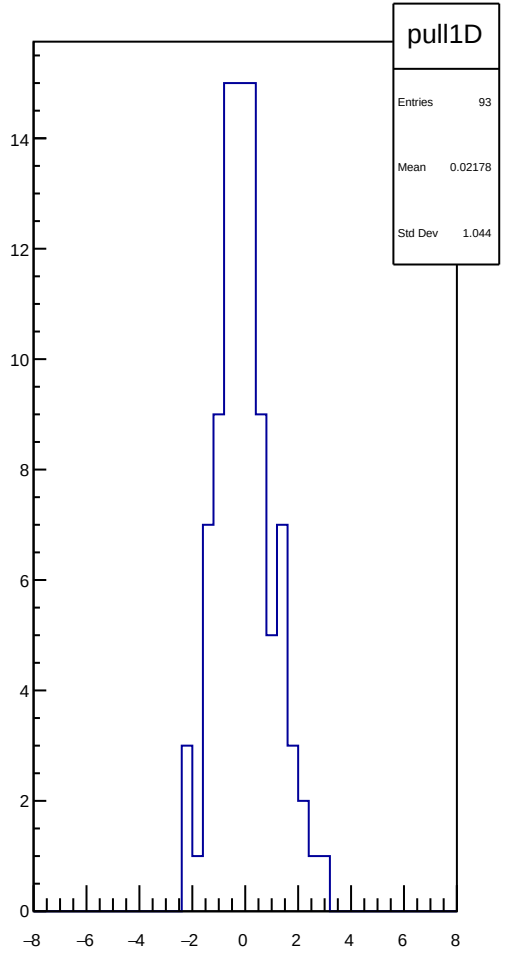

cor_asym_atr1l2_dd_rms vs run
χ² / ndf 101.1 / 92
p0 1784 ± 1.311
1840
1820
1800
1780
1760
1740

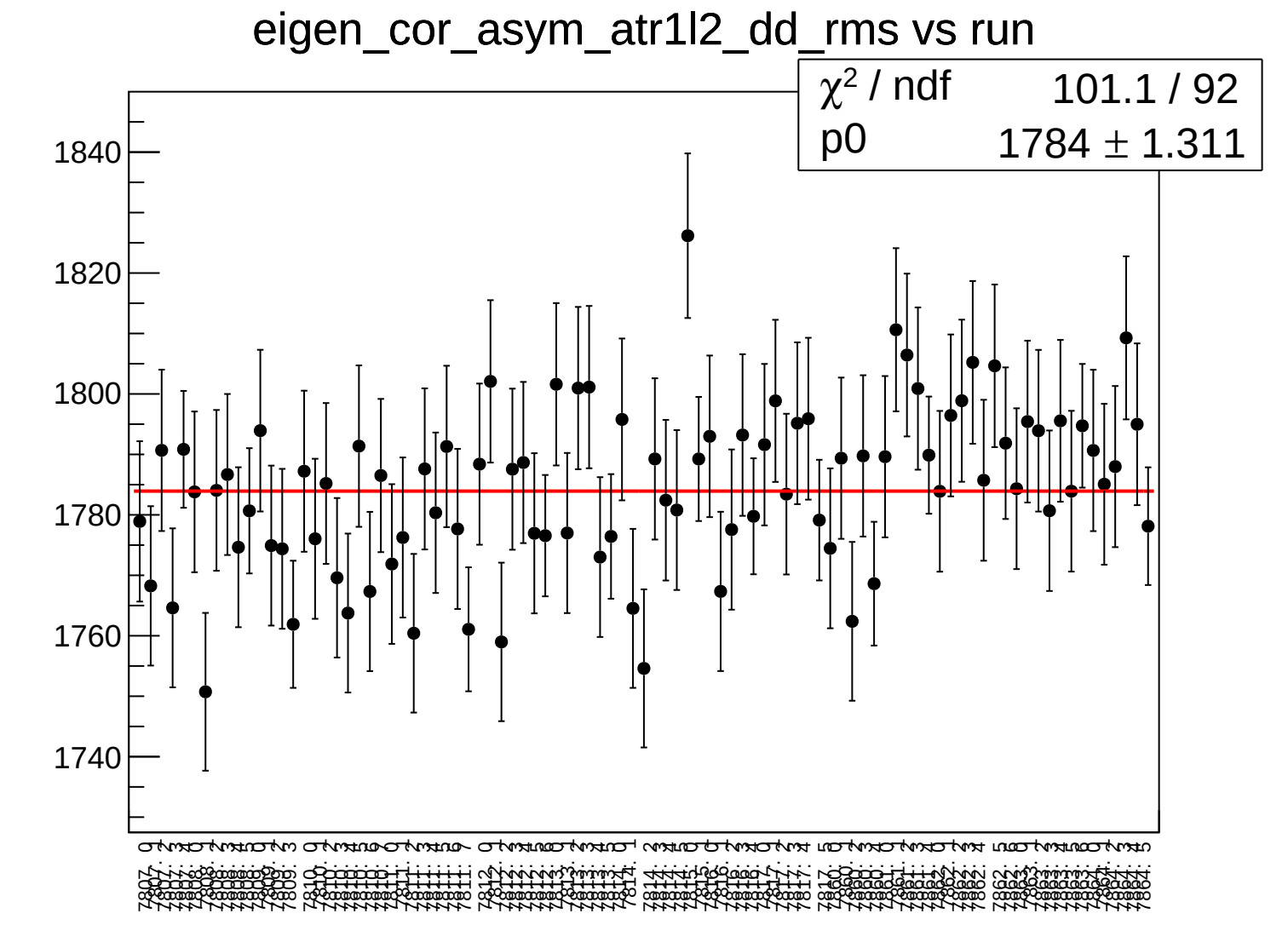

asym_atr1l2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 84.31 / 92
p0 −4253 ± 4236
pull
Entries 93
Mean −81.31
Std Dev 0

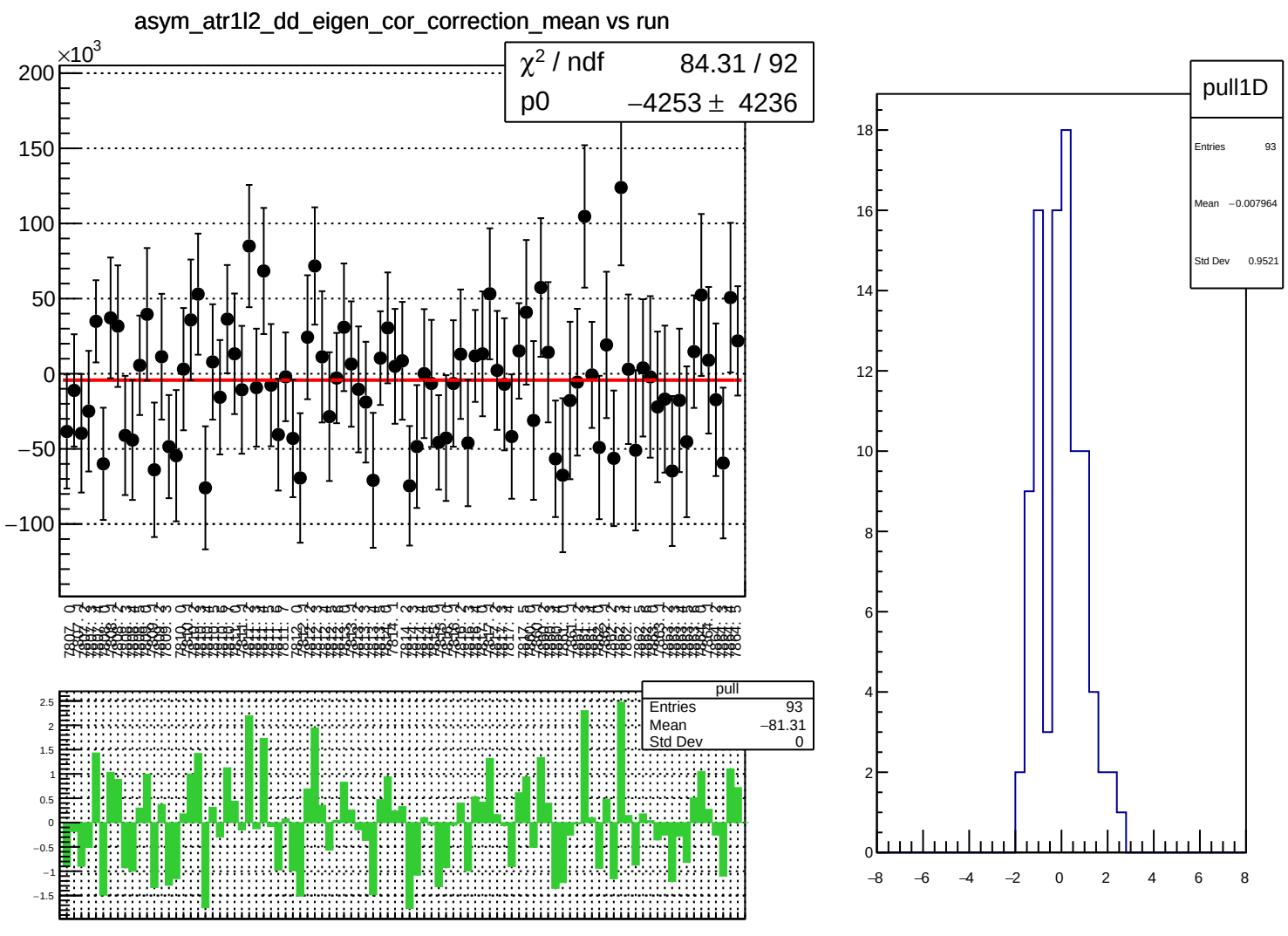

pull1D
Entries 93
Mean −0.007964
Std Dev 0.9521

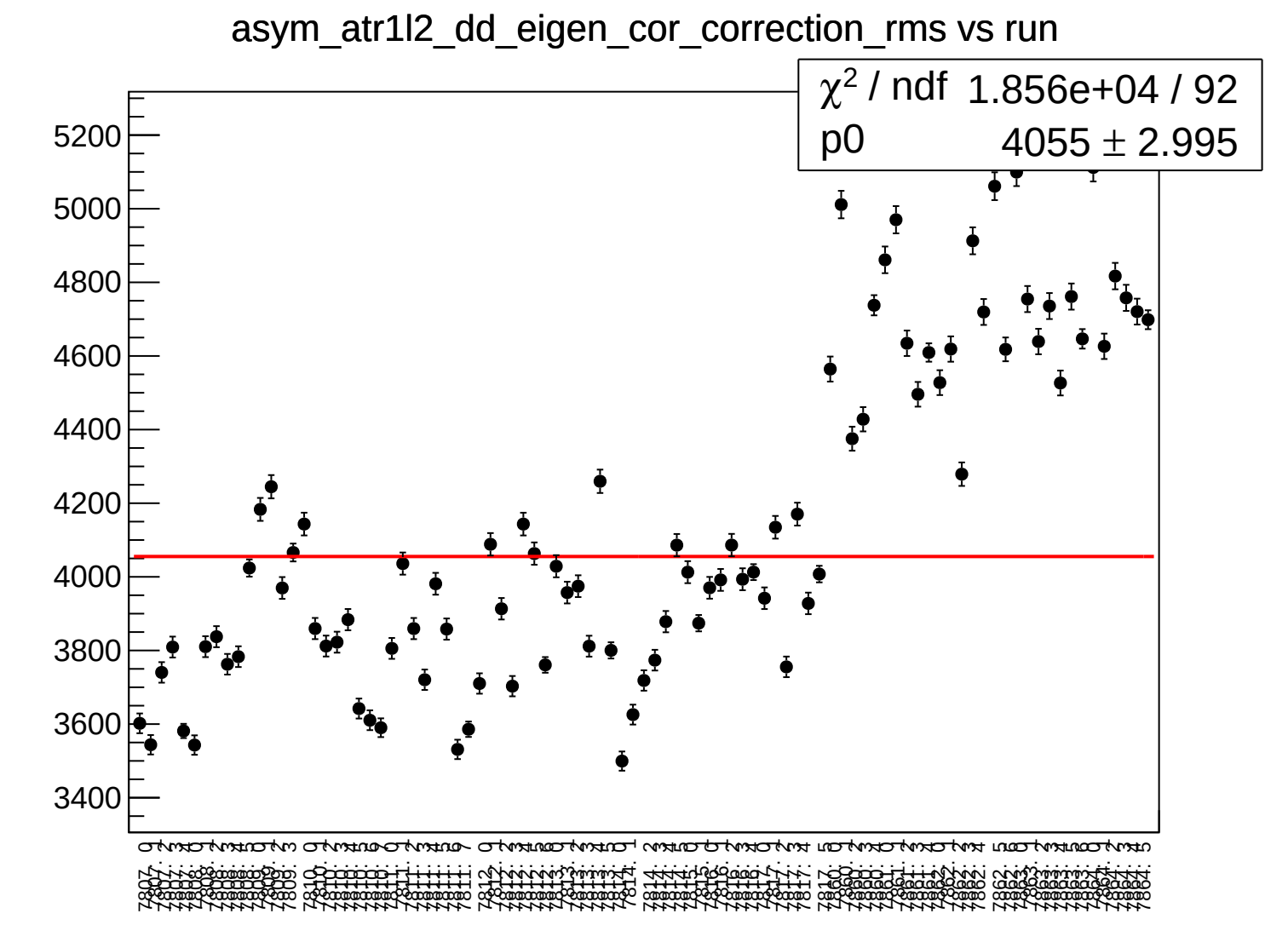

asym_atr1l2_dd_cor_correction_rms vs run
χ² / ndf 1.856e+04 / 92
p0 4055 ± 2.995
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400

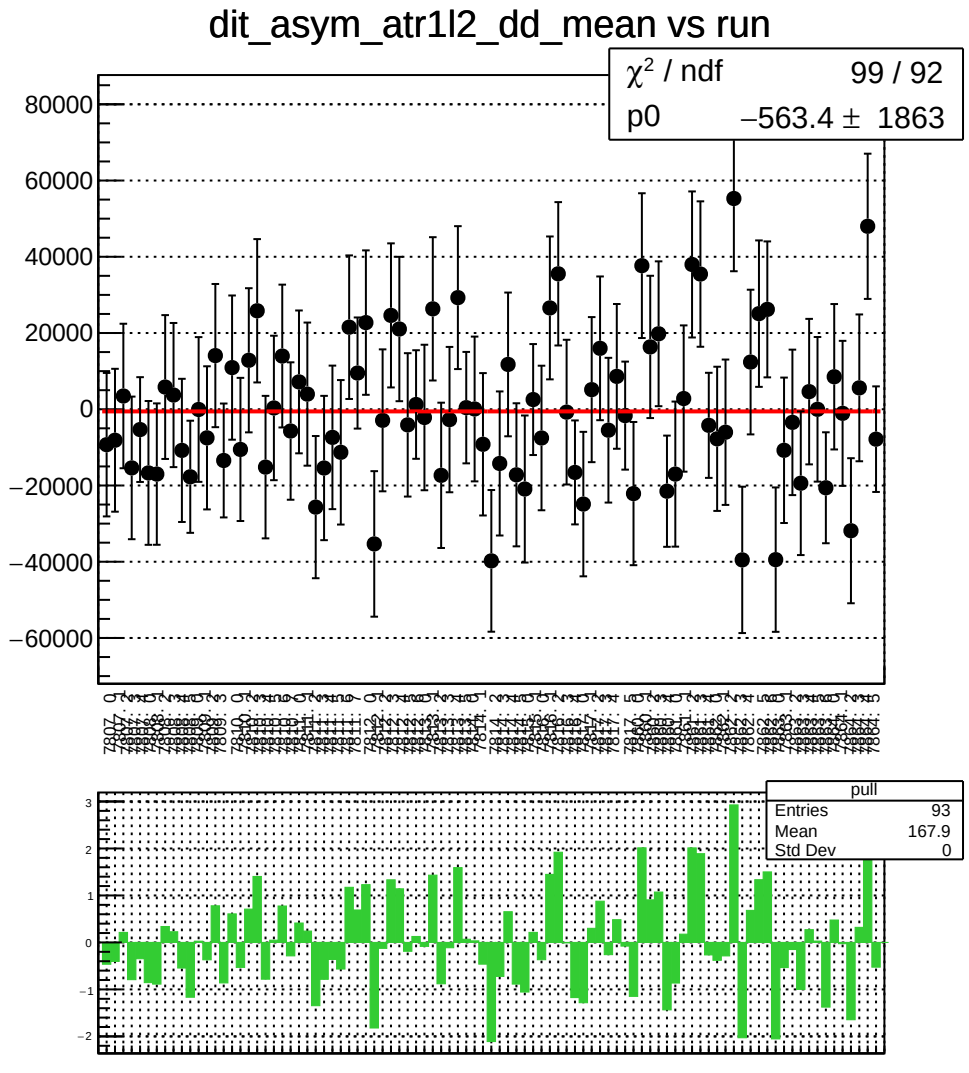

eigen_cor_asym_atr1l2_dd_mean vs run
χ² / ndf 101.5 / 92
p0 −295.6 ± 1854
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 170.4
Std Dev 0
3
2
1
0
−1
−2

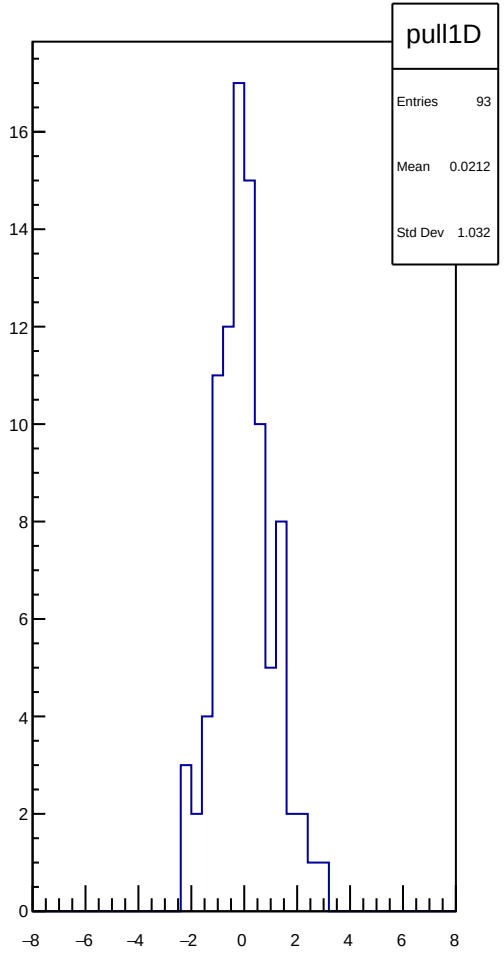

pull1D
Entries 93
Mean 0.02178
Std Dev 1.044
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

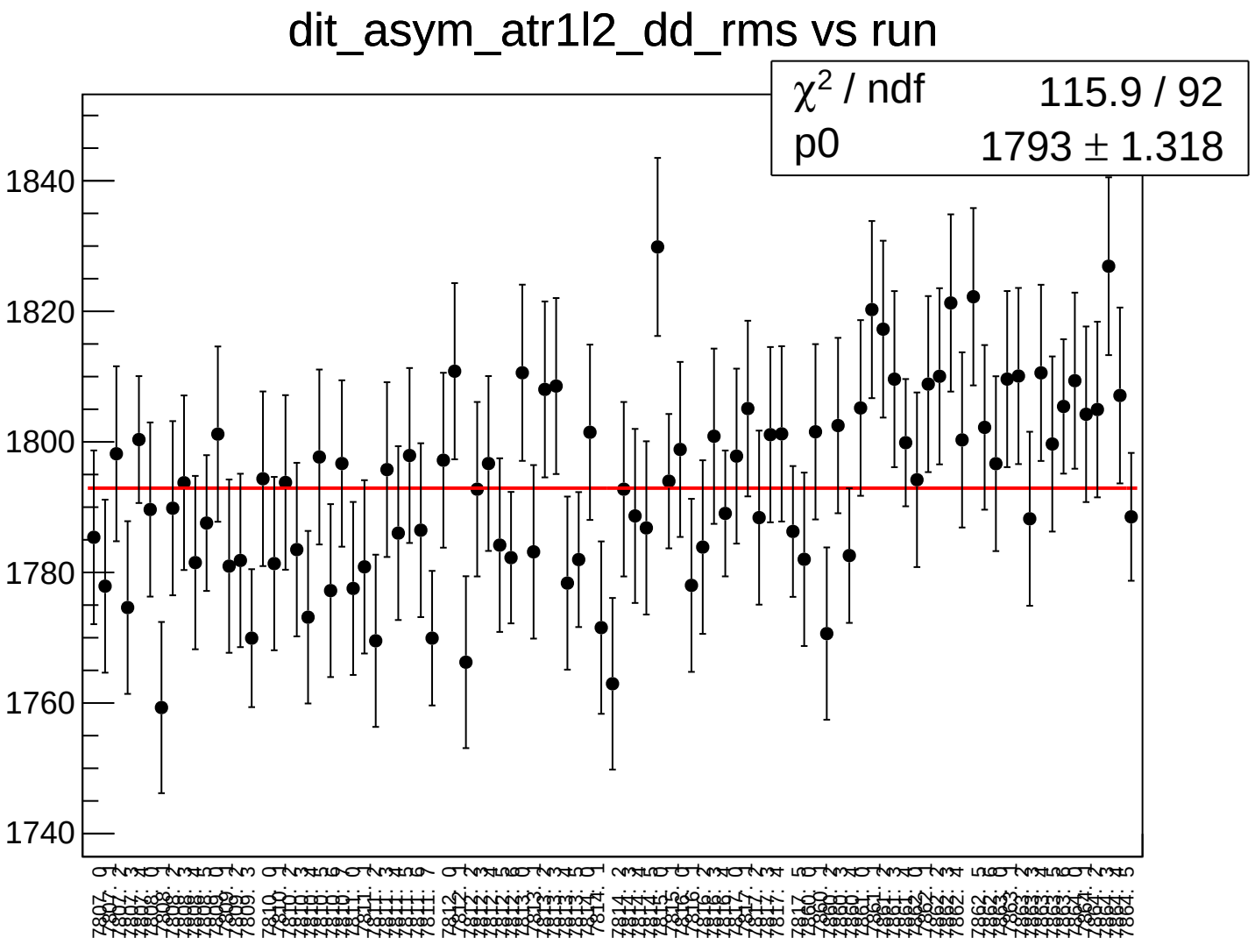

eigen_cor_asym_atr1l2_dd_rms vs run
χ² / ndf 101.1 / 92
p0 1784 ± 1.311
1840
1820
1800
1780
1760
1740

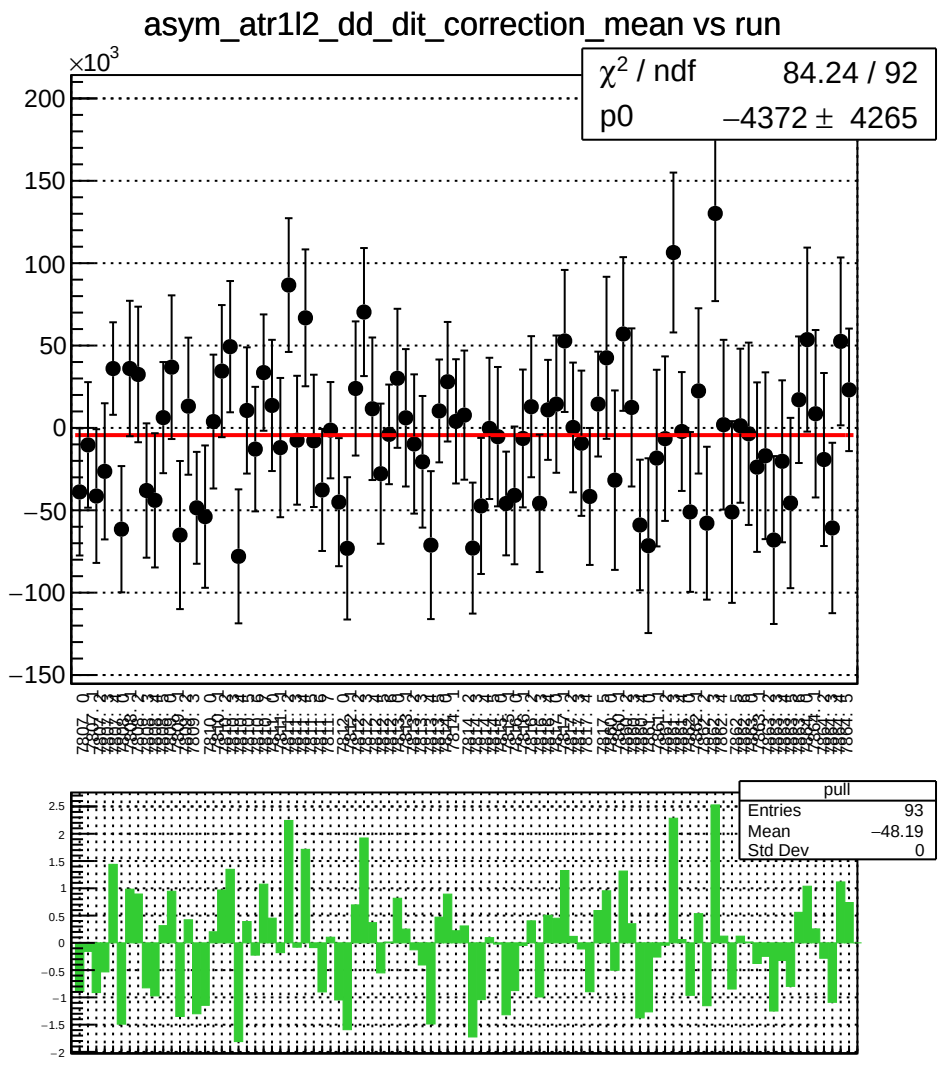

asym_atr1l2_dd_eigen_cor_correction_mean vs run
χ² / ndf 84.31 / 92
p0 −4253 ± 4236
×10³
pull
Entries 93
Mean −81.31
Std Dev 0
pull1D
Entries 93
Mean −0.007964
Std Dev 0.9521

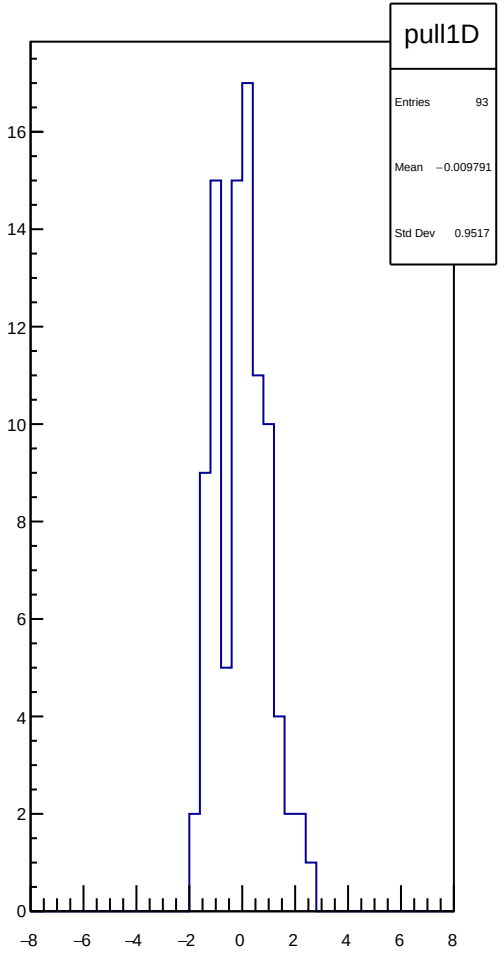

asym_atr1l2_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.856e+04 / 92
p0 4055 ± 2.995
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400

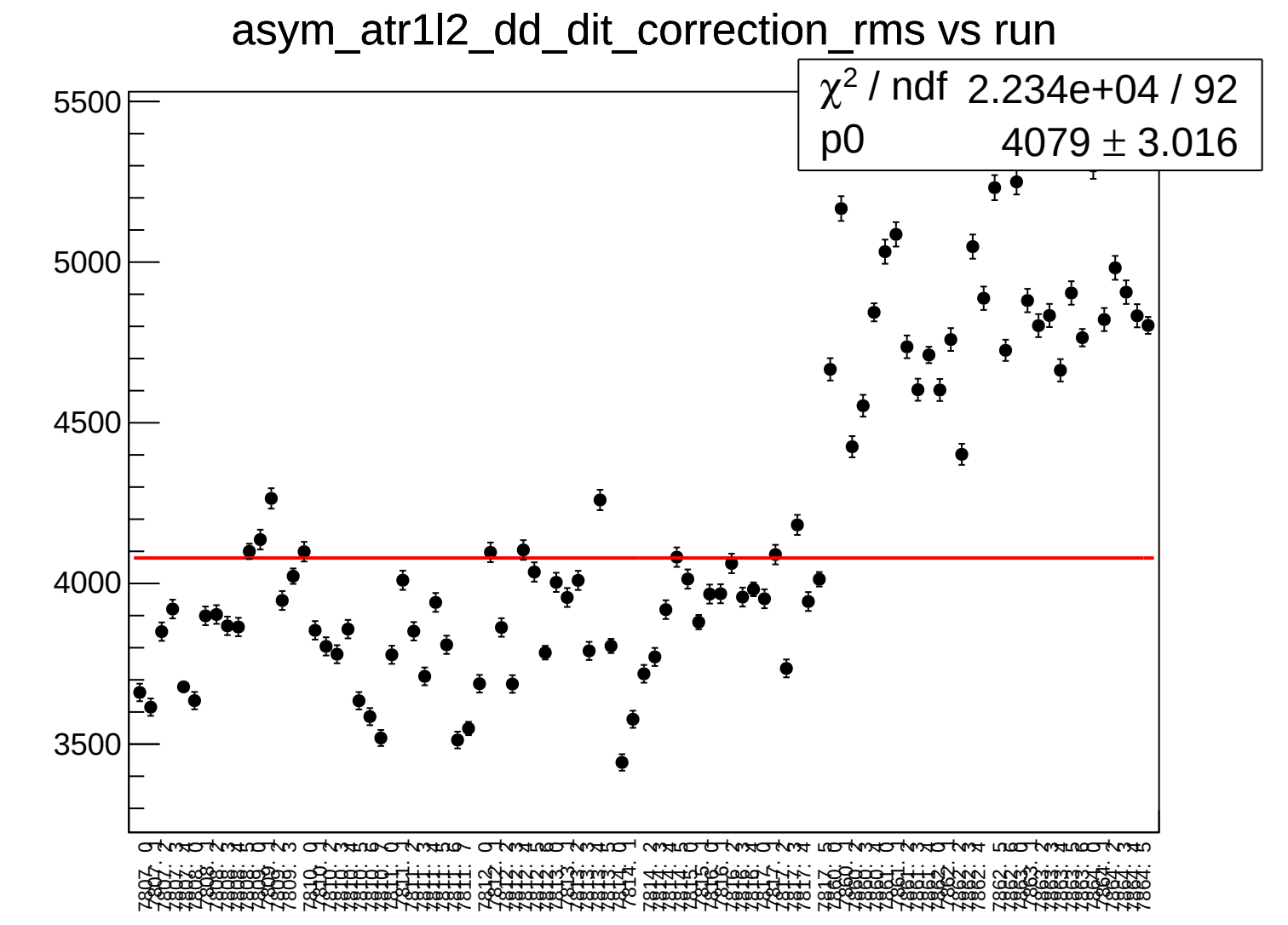

dit_asym_atr1l2_dd_mean vs run
χ² / ndf 99 / 92
p0 −563.4 ± 1863
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 167.9
Std Dev 0
3
2
1
0
−1
−2

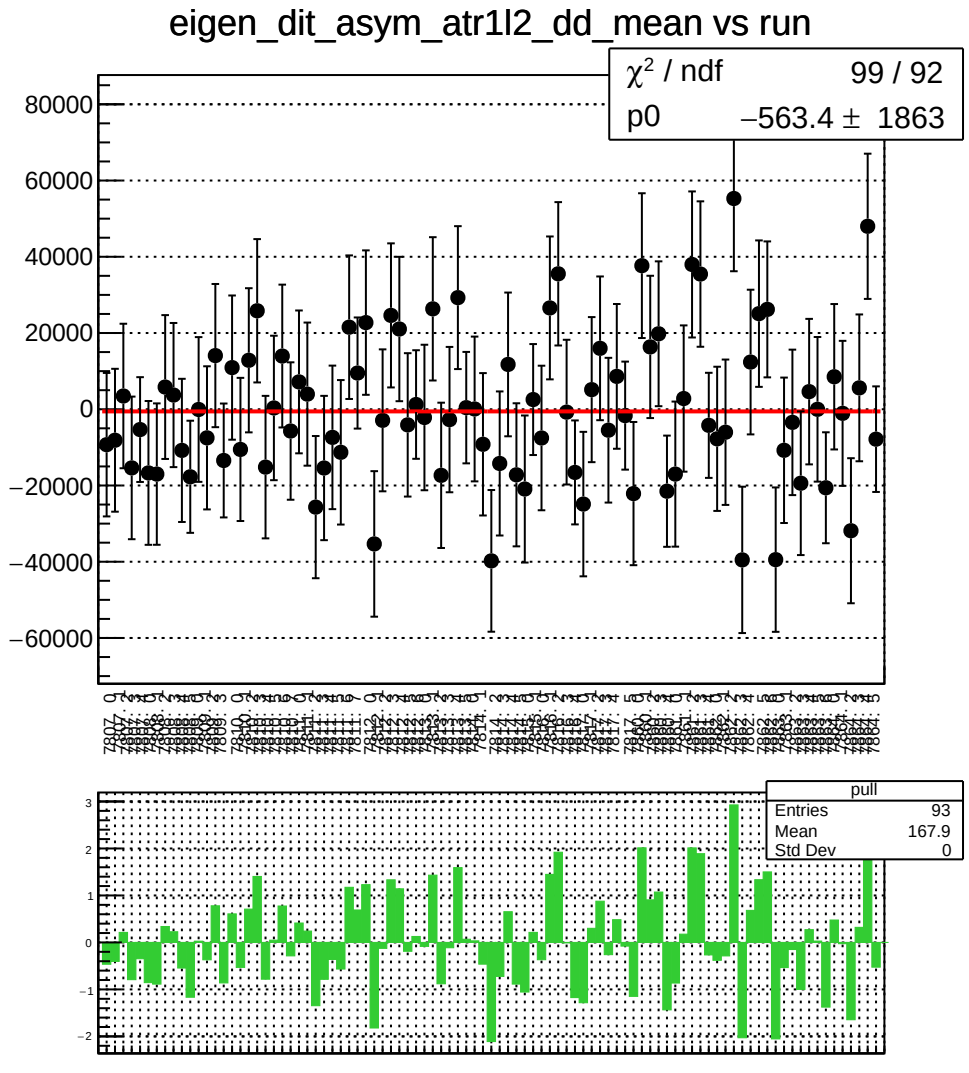

pull1D
Entries 93
Mean 0.0212
Std Dev 1.032
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

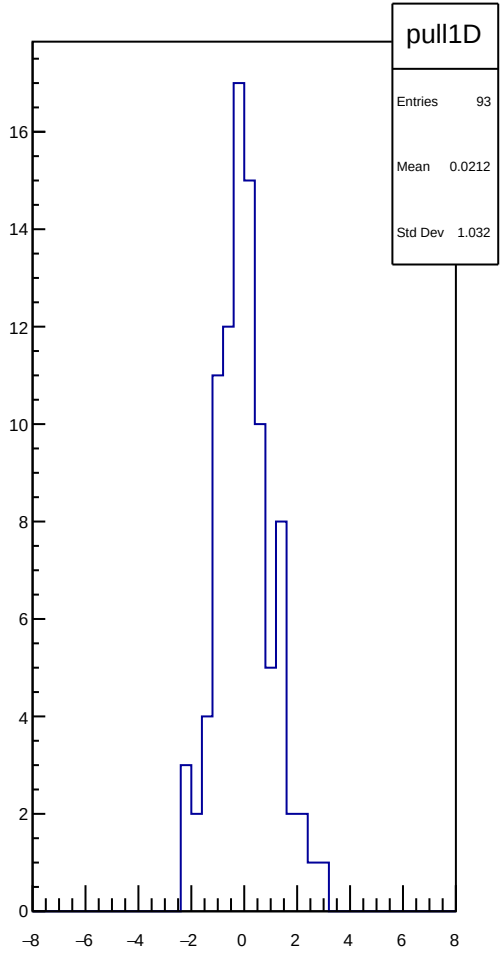

dit_asym_atr1l2_dd_rms vs run
χ² / ndf 115.9 / 92
p0 1793 ± 1.318
1840
1820
1800
1780
1760
1740

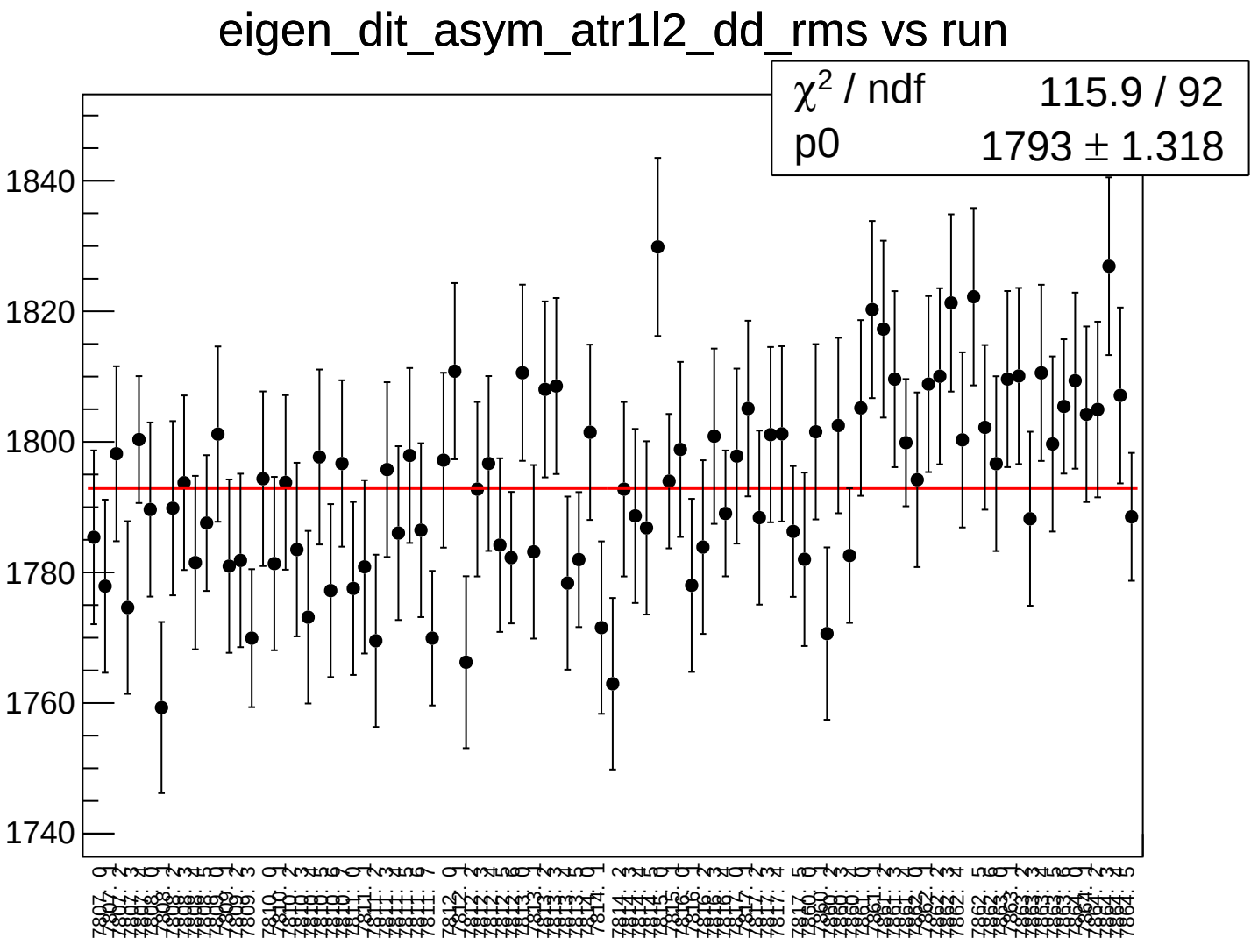

asym_atr1l2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 84.24 / 92
p0 −4372 ± 4265
pull
Entries 93
Mean −48.19
Std Dev 0

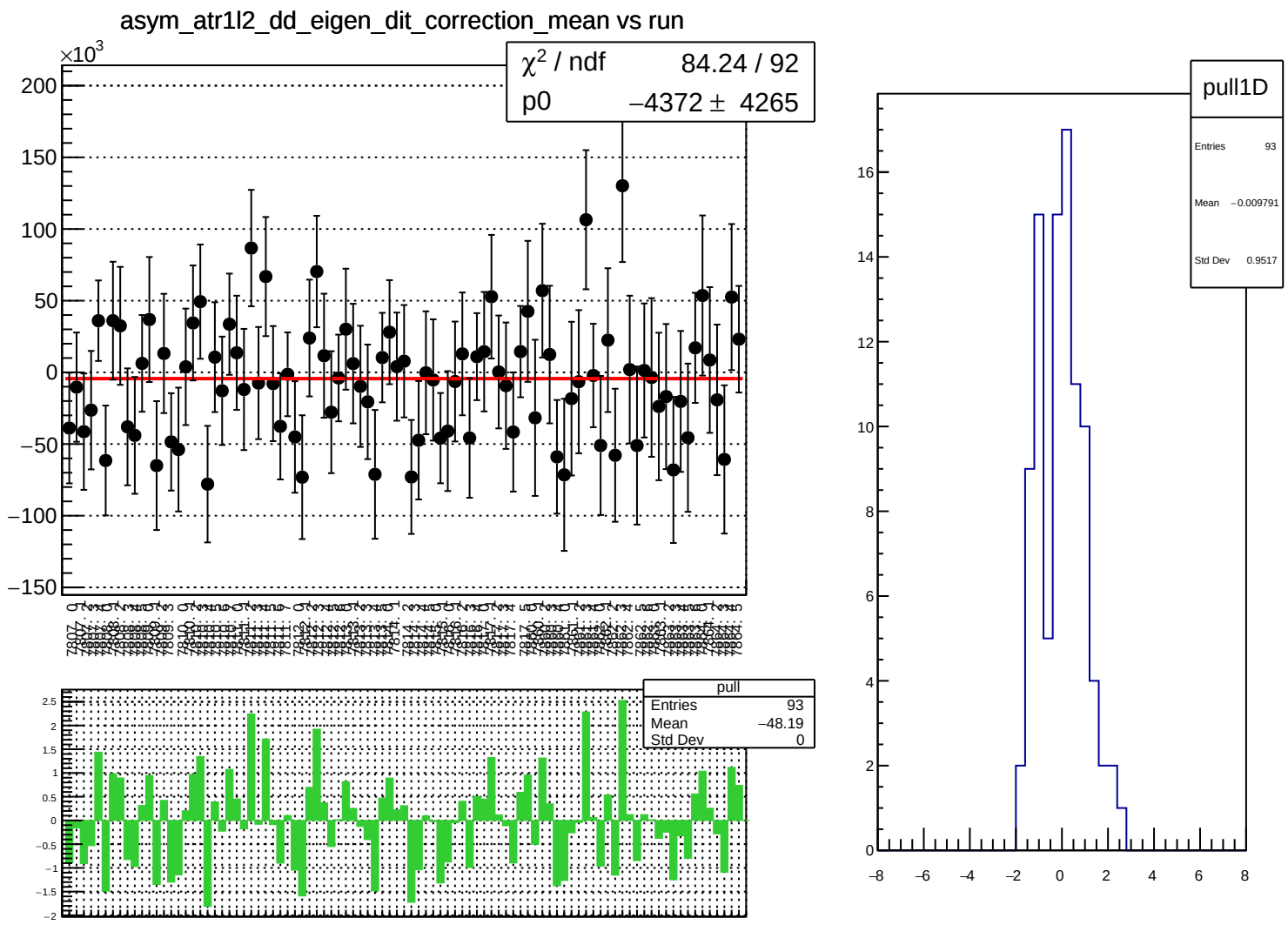

pull1D
Entries 93
Mean −0.009791
Std Dev 0.9517

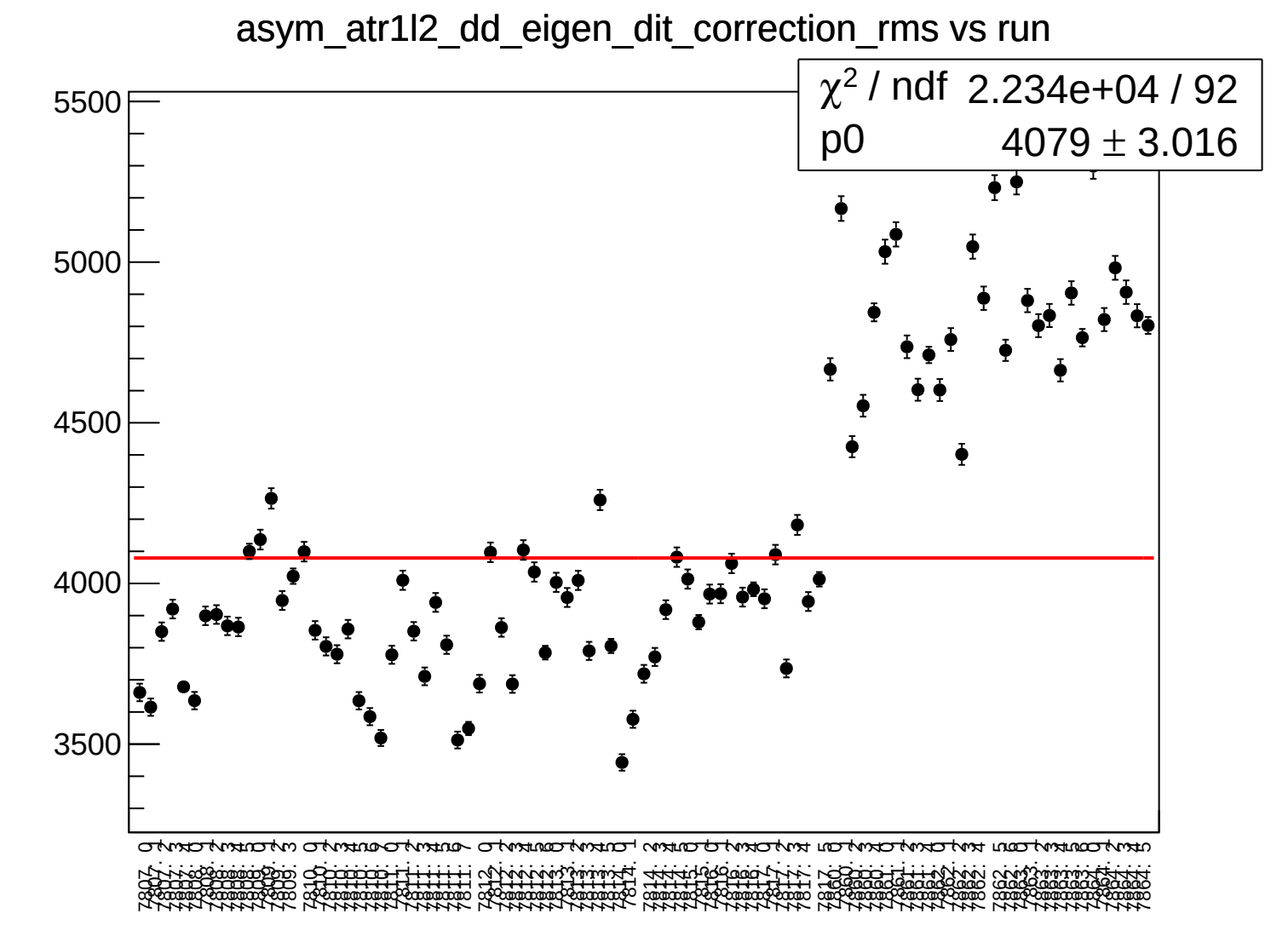

asym_atr1l2_dd_dit_correction_rms vs run
χ² / ndf 2.234e+04 / 92
p0 4079 ± 3.016
5500
5000
4500
4000
3500

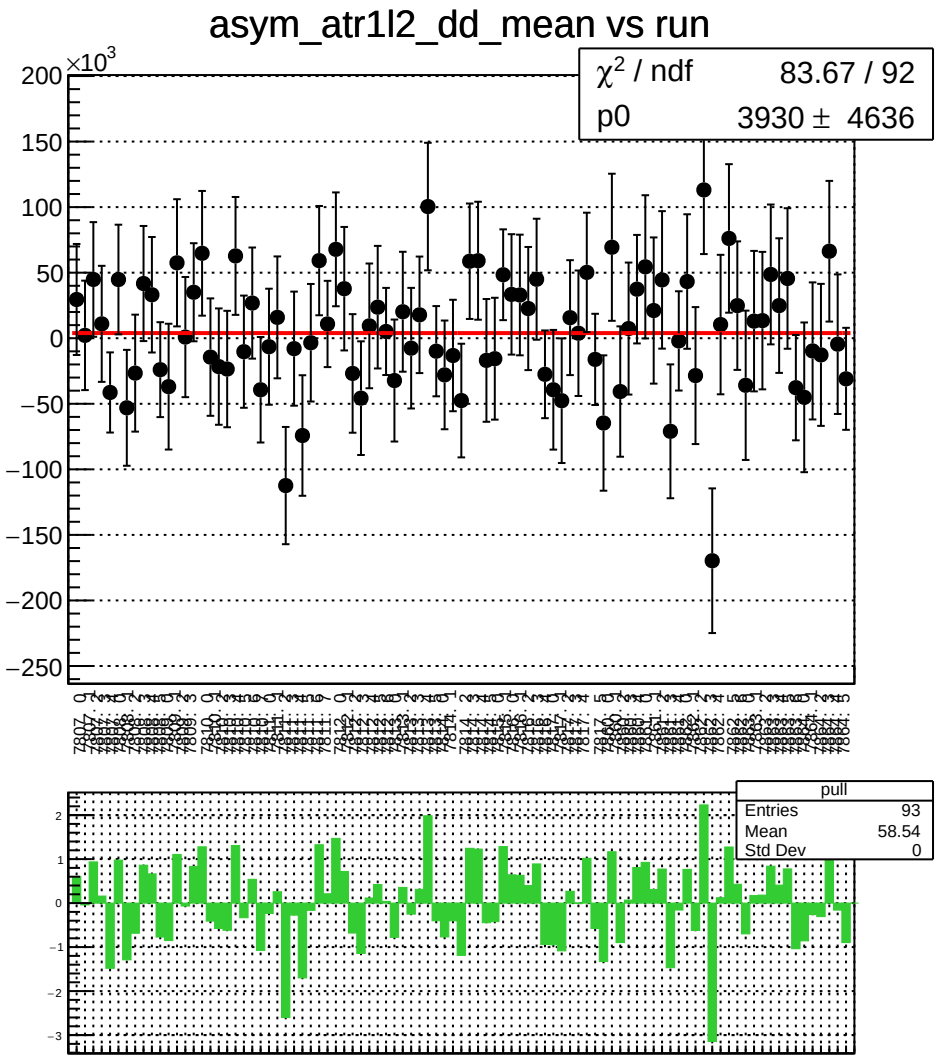

eigen_dit_asym_atr1l2_dd_mean vs run
χ² / ndf 99 / 92
p0 −563.4 ± 1863
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 167.9
Std Dev 0
3
2
1
0
−1
−2

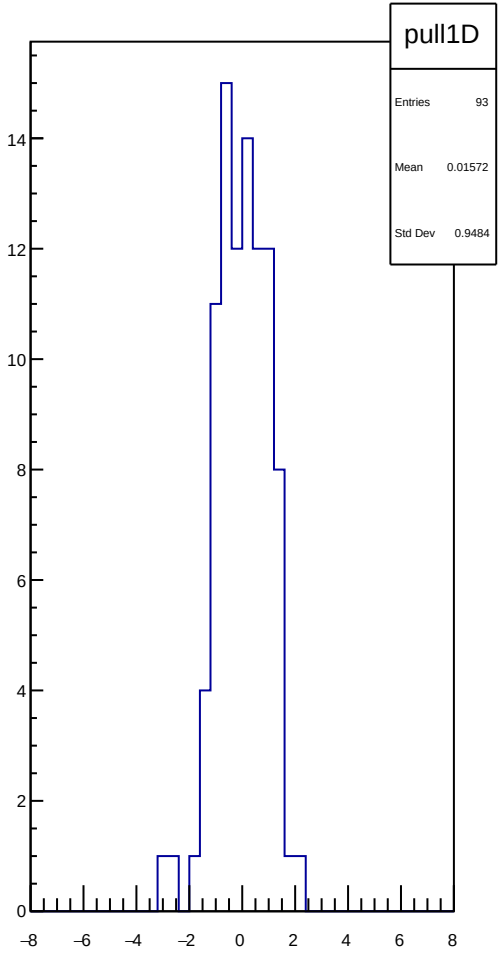

pull1D
Entries 93
Mean 0.0212
Std Dev 1.032
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

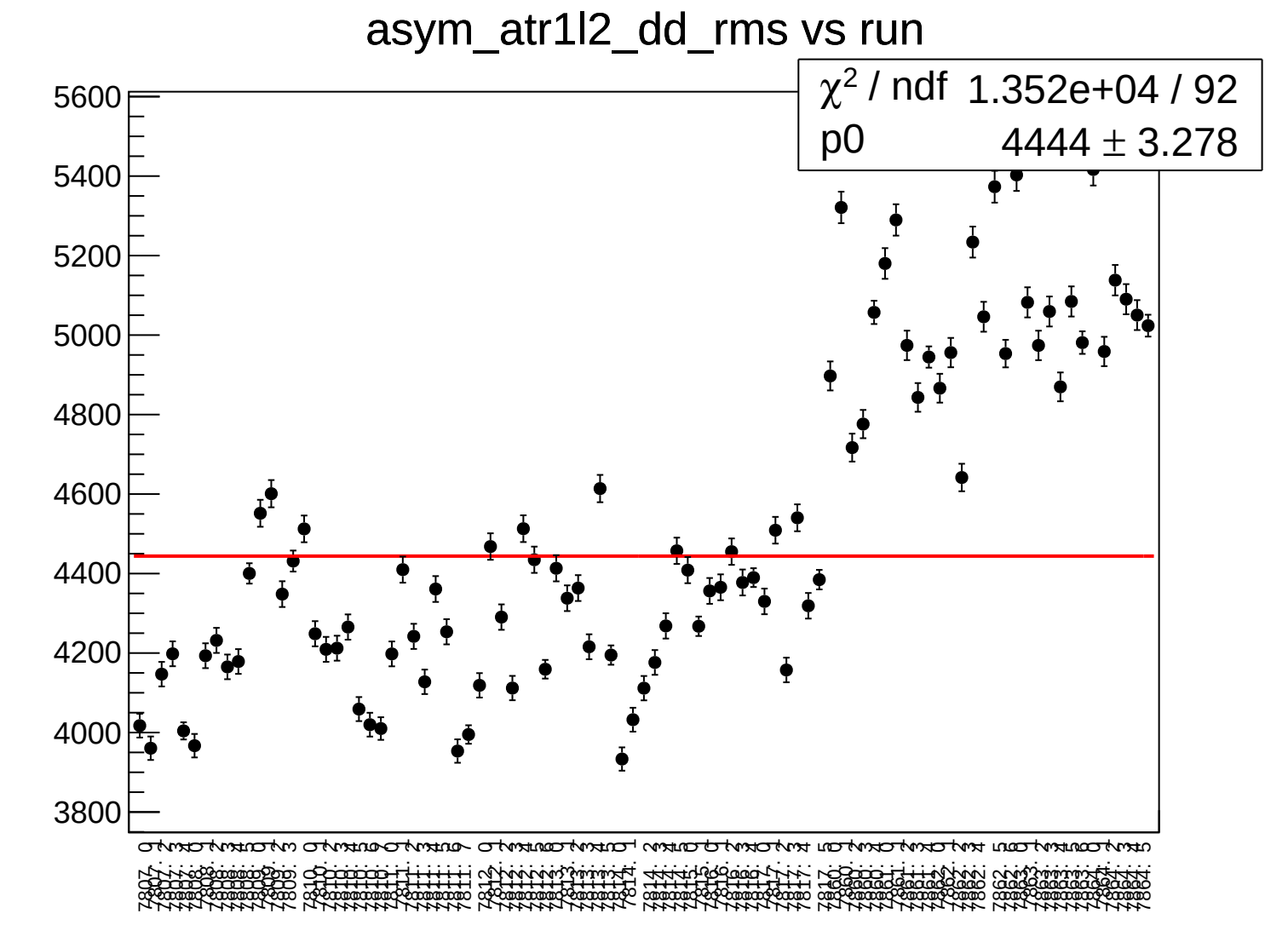

eigen_dit_asym_atr1l2_dd_rms vs run
χ² / ndf 115.9 / 92
p0 1793 ± 1.318
1840
1820
1800
1780
1760
1740

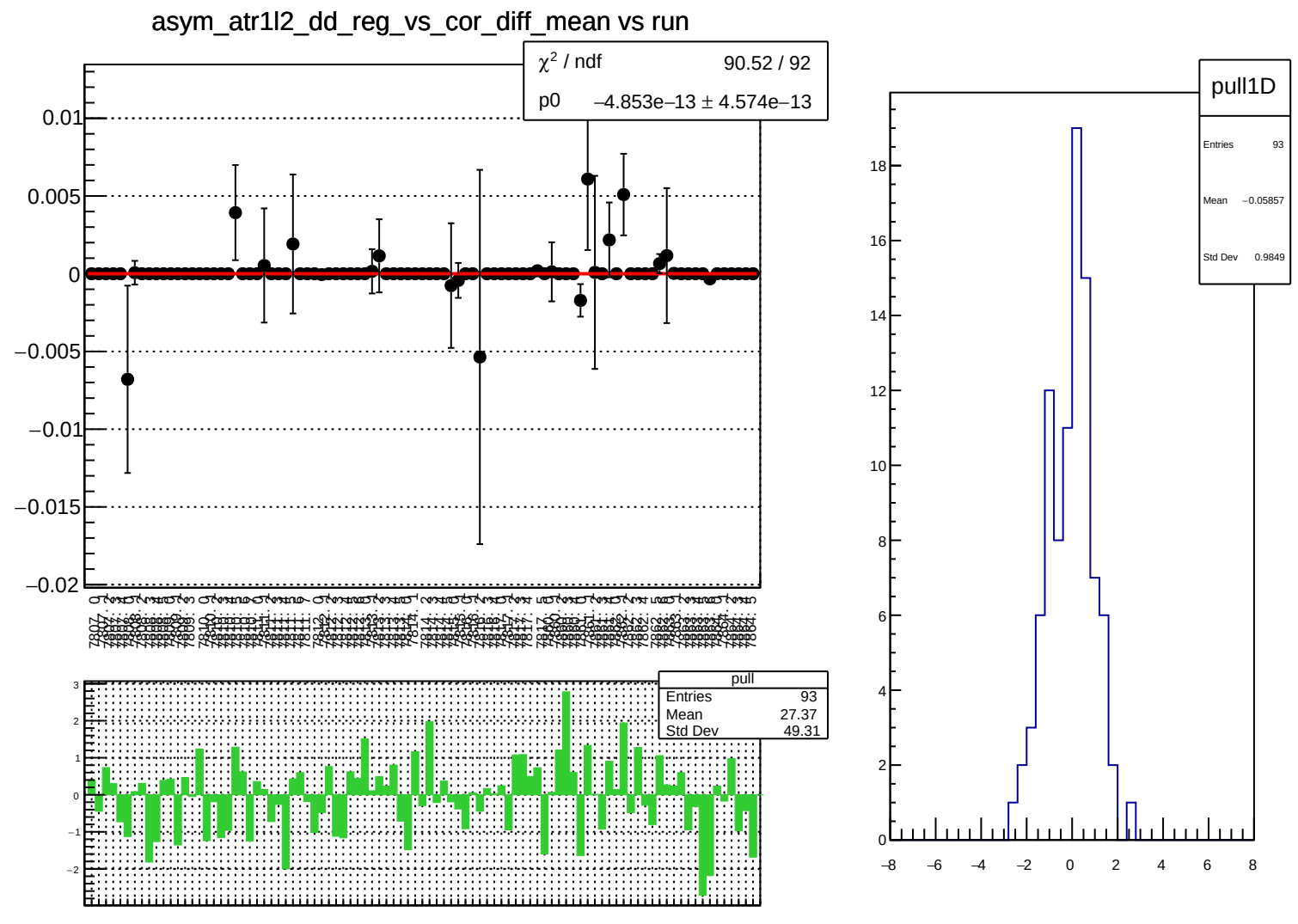

asym_atr1l2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 84.24 / 92
p0 −4372 ± 4265
pull
Entries 93
Mean −48.19
Std Dev 0
pull1D
Entries 93
Mean −0.009791
Std Dev 0.9517

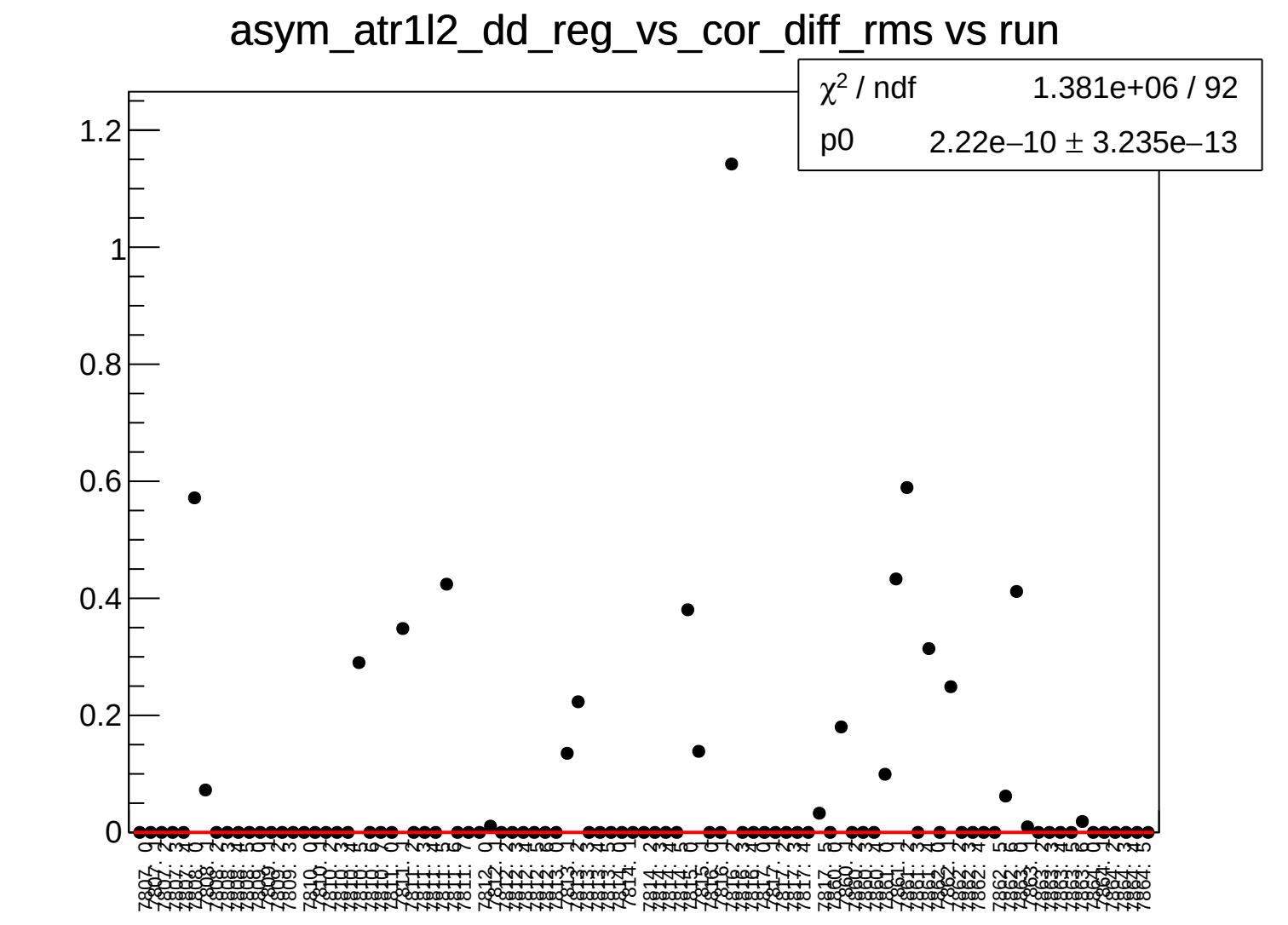

asym_atr1l2_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 2.234e+04 / 92
p0 4079 ± 3.016
5500
5000
4500
4000
3500

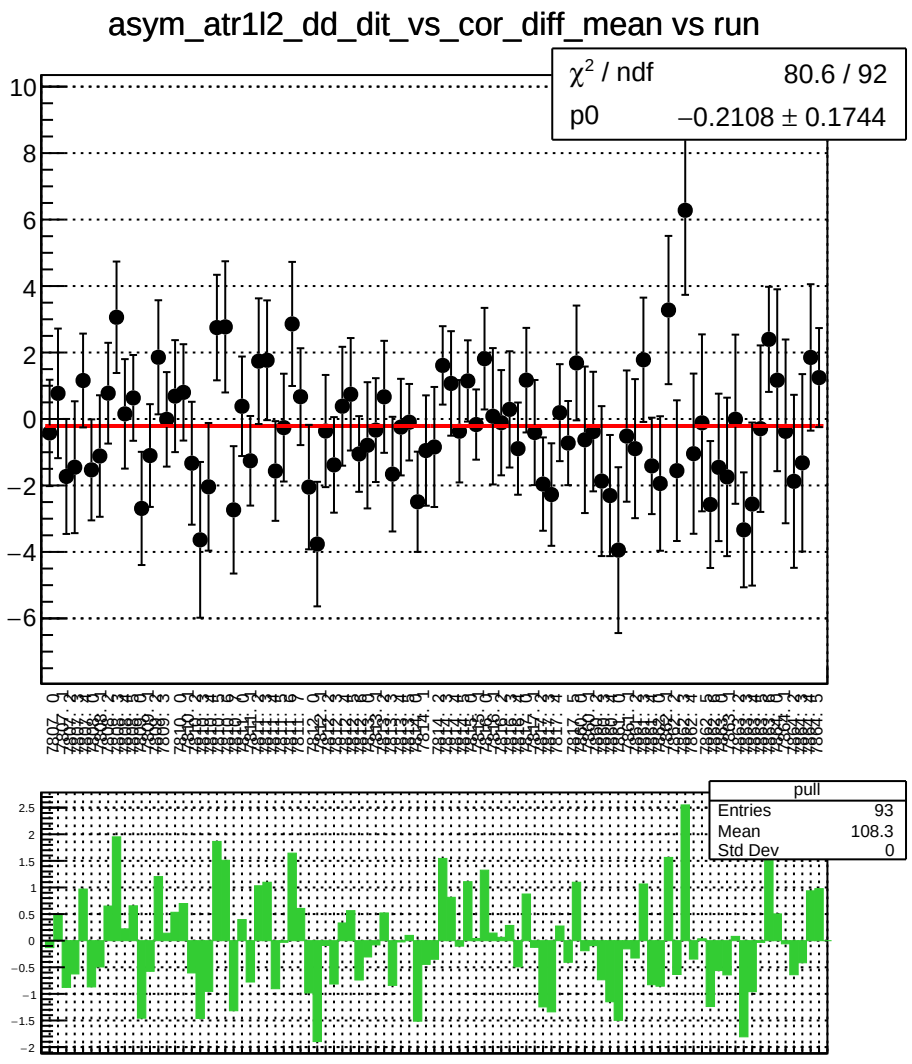

asym_atr1l2_dd_mean vs run
χ² / ndf 83.67 / 92
p0 3930 ± 4636
×10³
pull
Entries 93
Mean 58.54
Std Dev 0

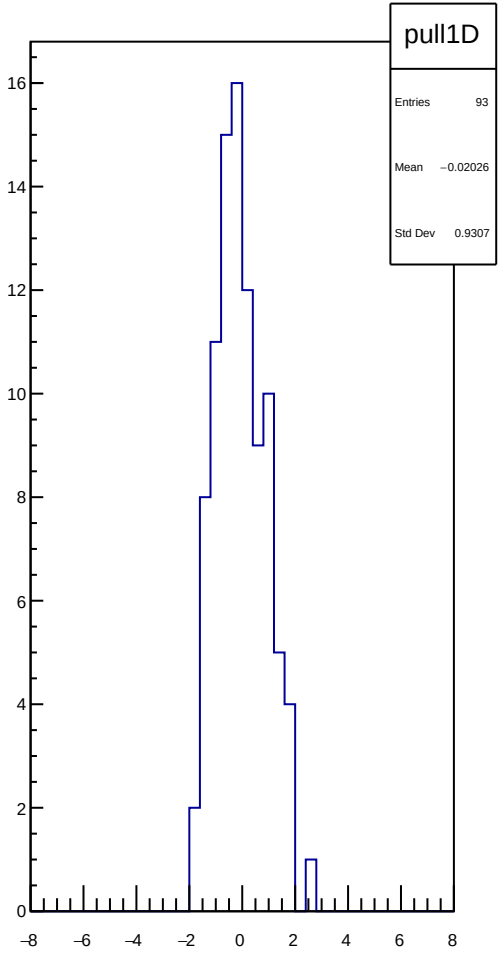

pull1D
Entries 93
Mean 0.01572
Std Dev 0.9484

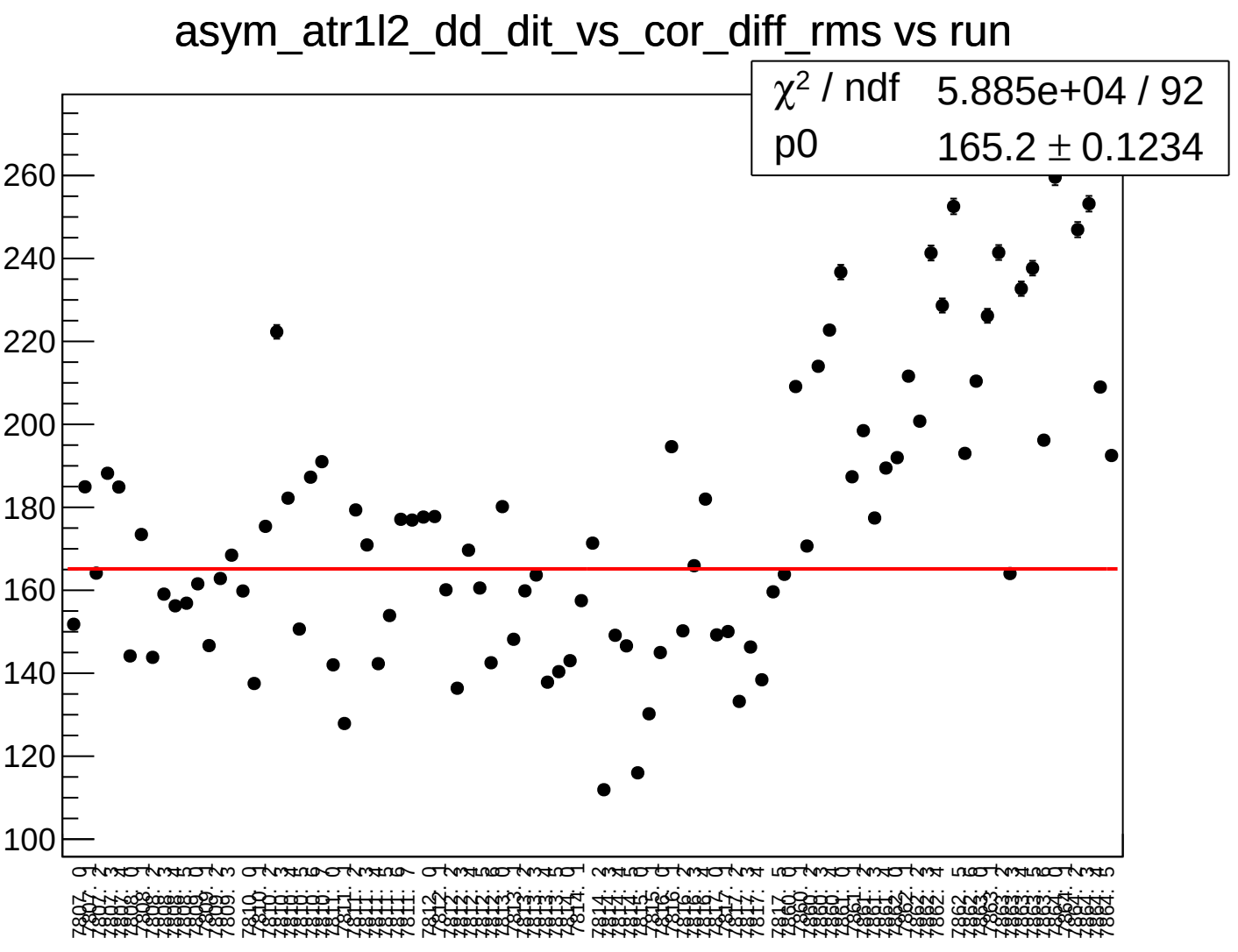

asym_atr1l2_dd_rms vs run
χ^2 / ndf 1.352e+04 / 92
p0 4444 ± 3.278
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800

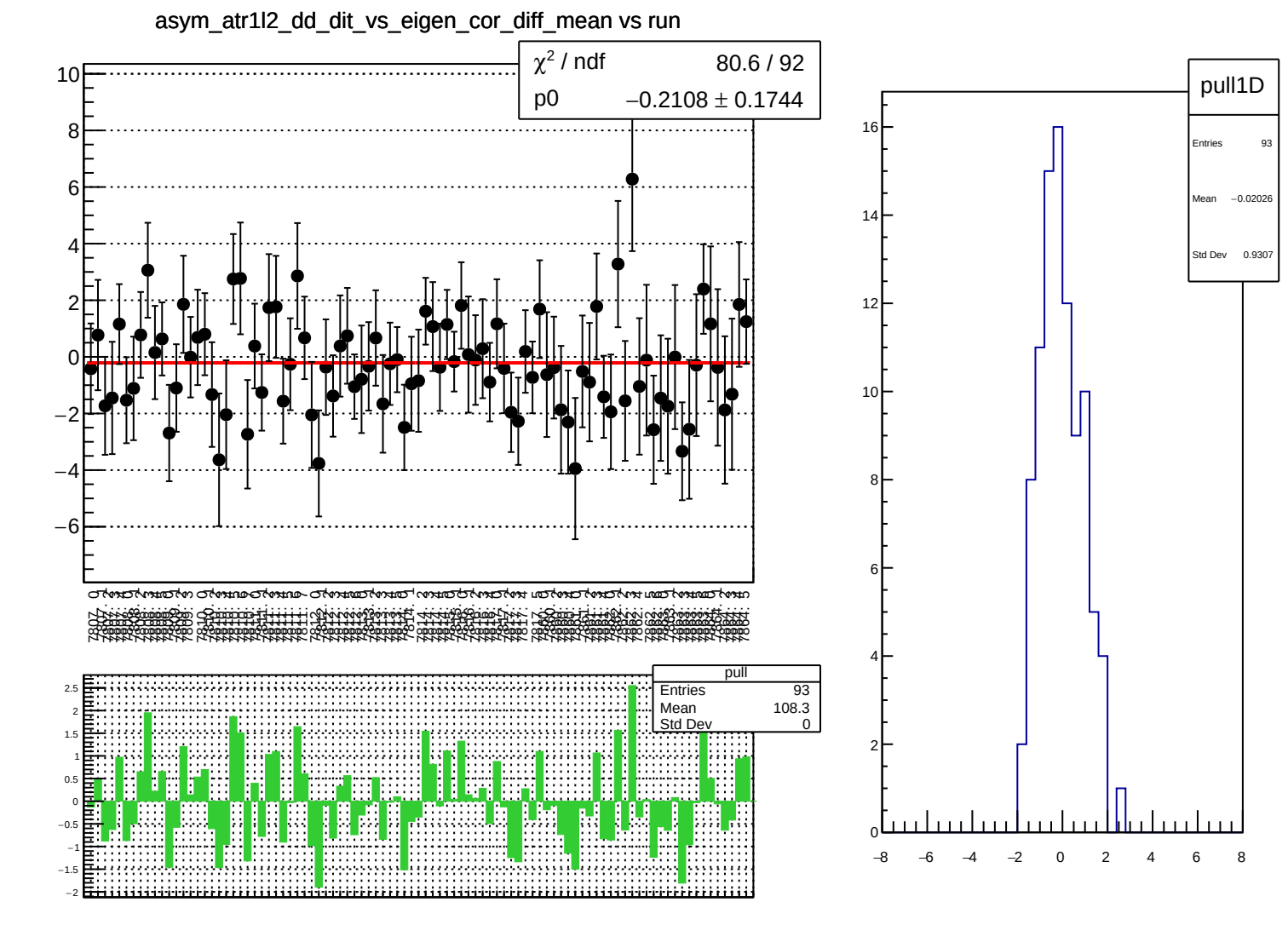

asym_atr1l2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 90.52 / 92
p0 −4.853e−13 ± 4.574e−13
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 93
Mean 27.37
Std Dev 49.31
3
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.05857
Std Dev 0.9849
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

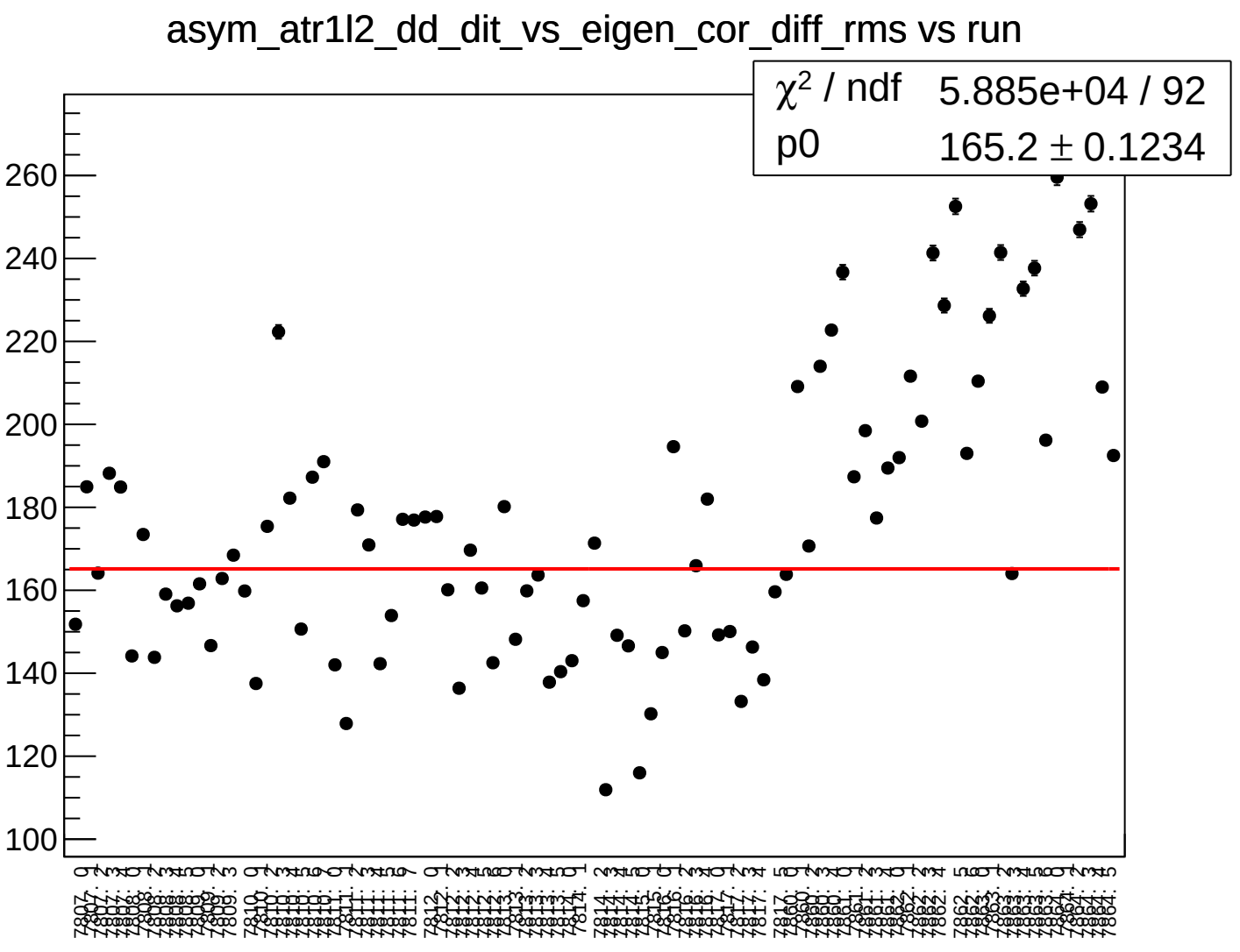

asym_atr1l2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.381e+06 / 92
p0 2.22e−10 ± 3.235e−13
1.2
1
0.8
0.6
0.4
0.2
0

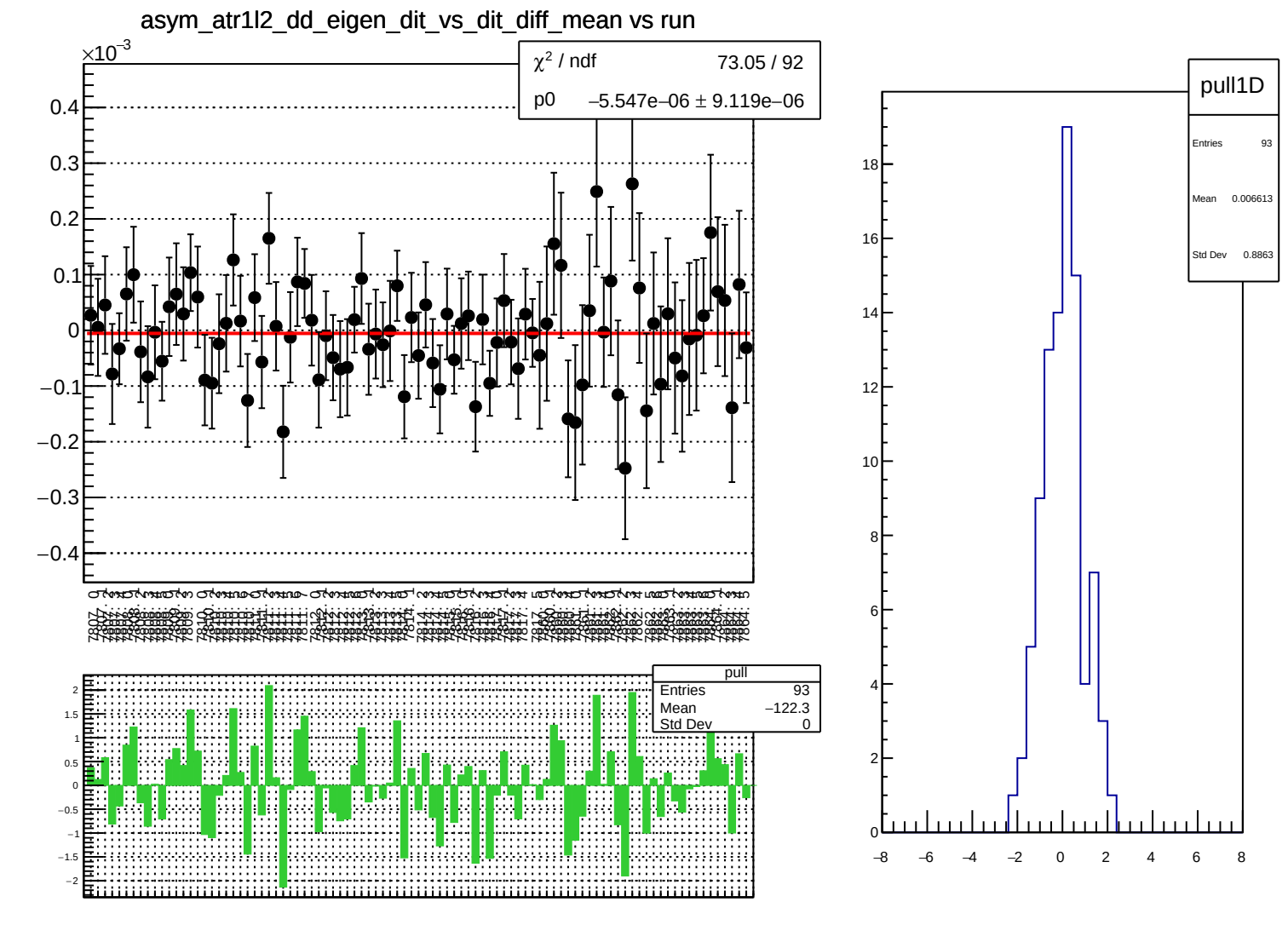

asym_atr1l2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 80.6 / 92
p0 −0.2108 ± 0.1744
pull
Entries 93
Mean 108.3
Std Dev 0

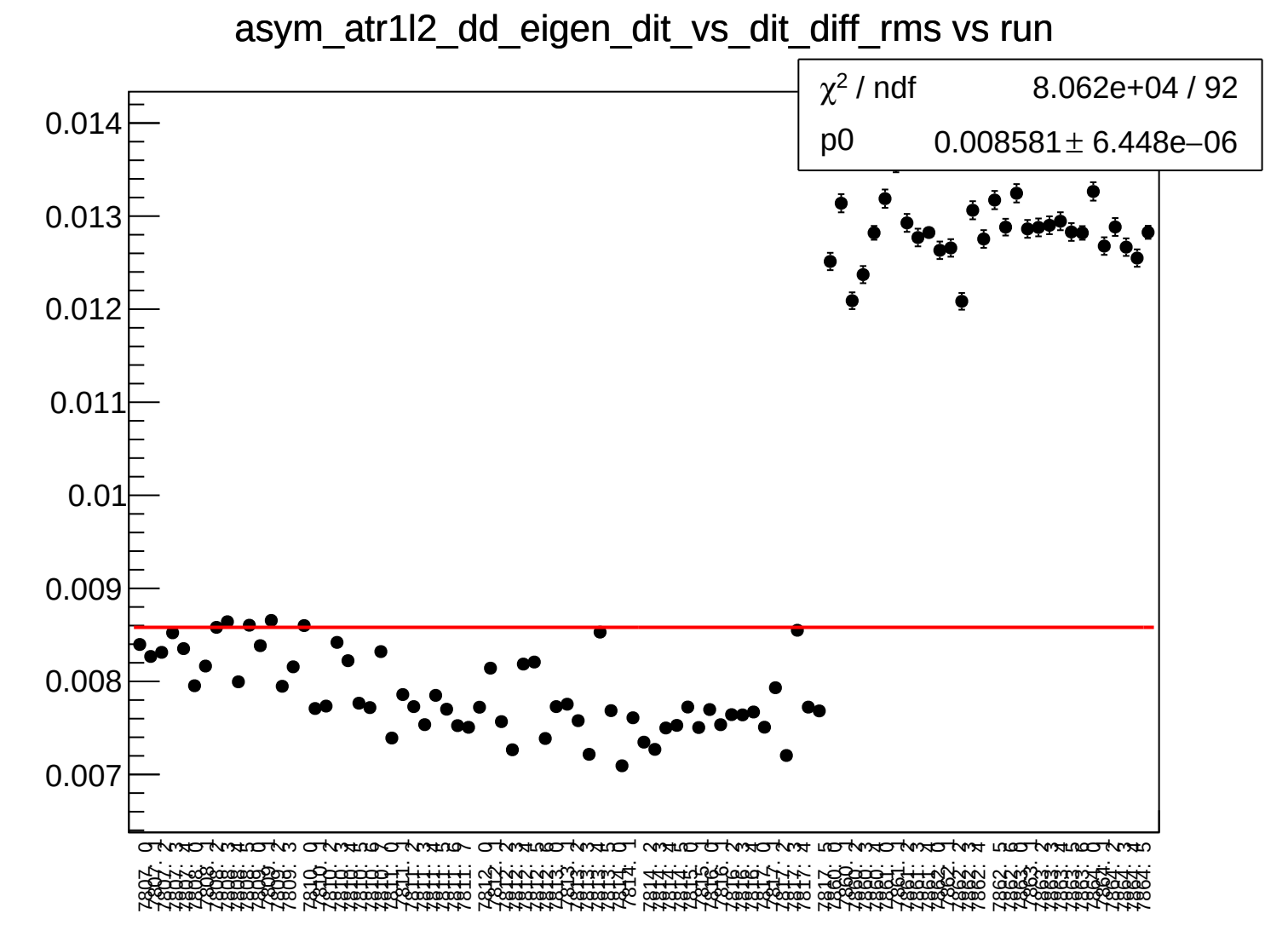

pull1D
Entries 93
Mean −0.02026
Std Dev 0.9307

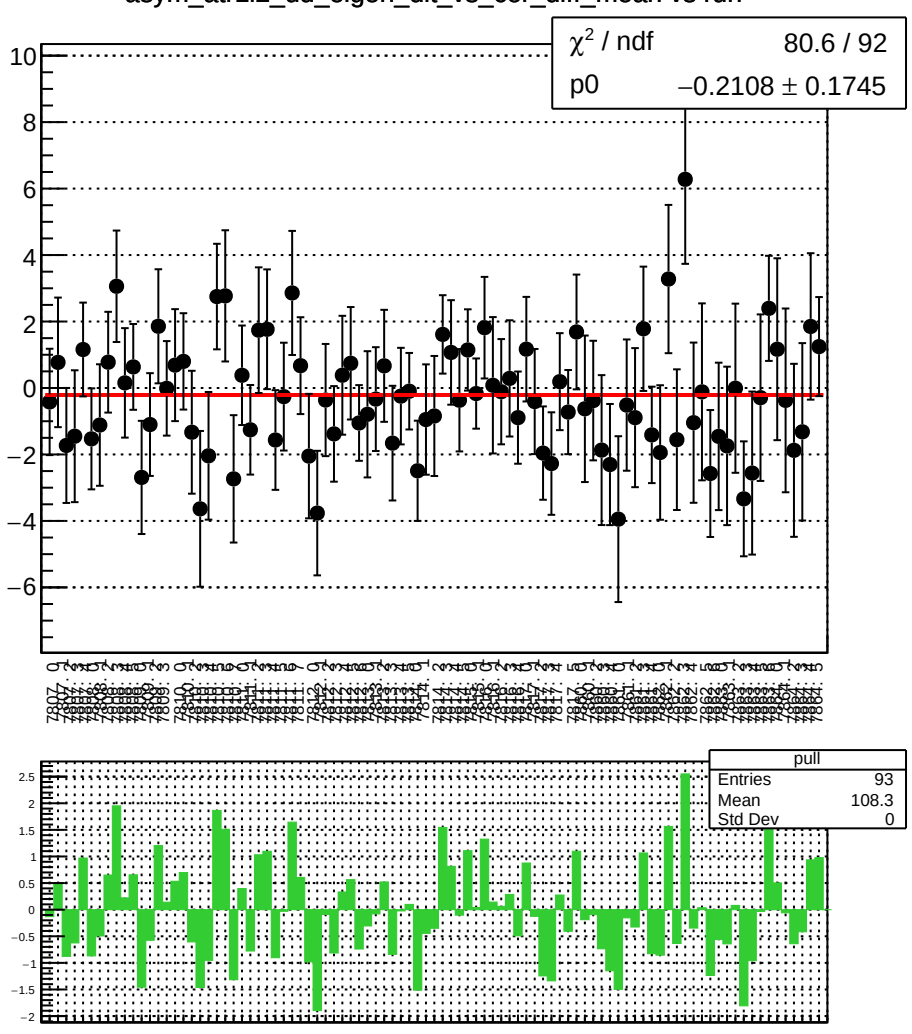

asym_atr1l2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.885e+04 / 92
p0 165.2 ± 0.1234
260
240
220
200
180
160
140
120
100

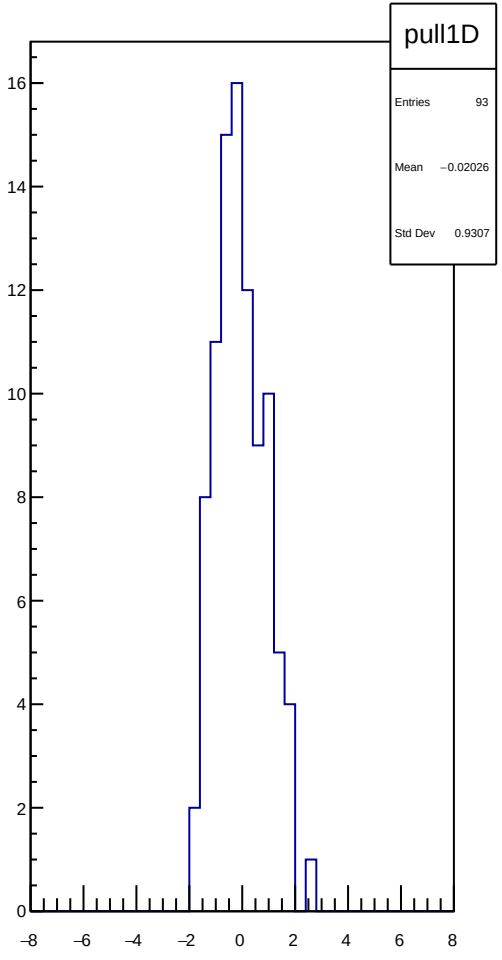

asym_atr1l2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.6 / 92
p0 −0.2108 ± 0.1744
pull
Entries 93
Mean 108.3
Std Dev 0
pull1D
Entries 93
Mean −0.02026
Std Dev 0.9307

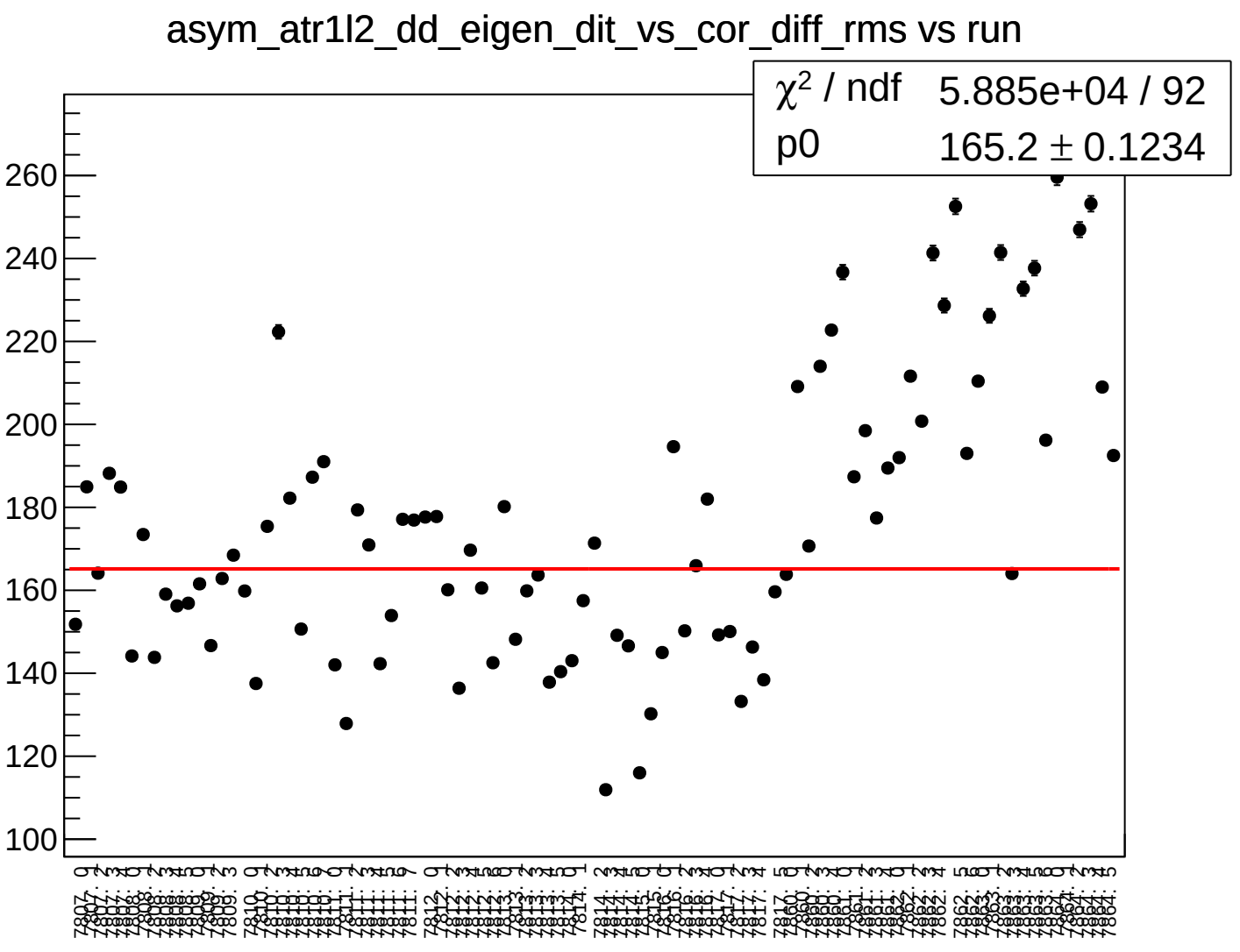

asym_atr1l2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.885e+04 / 92
p0 165.2 ± 0.1234
260
240
220
200
180
160
140
120
100

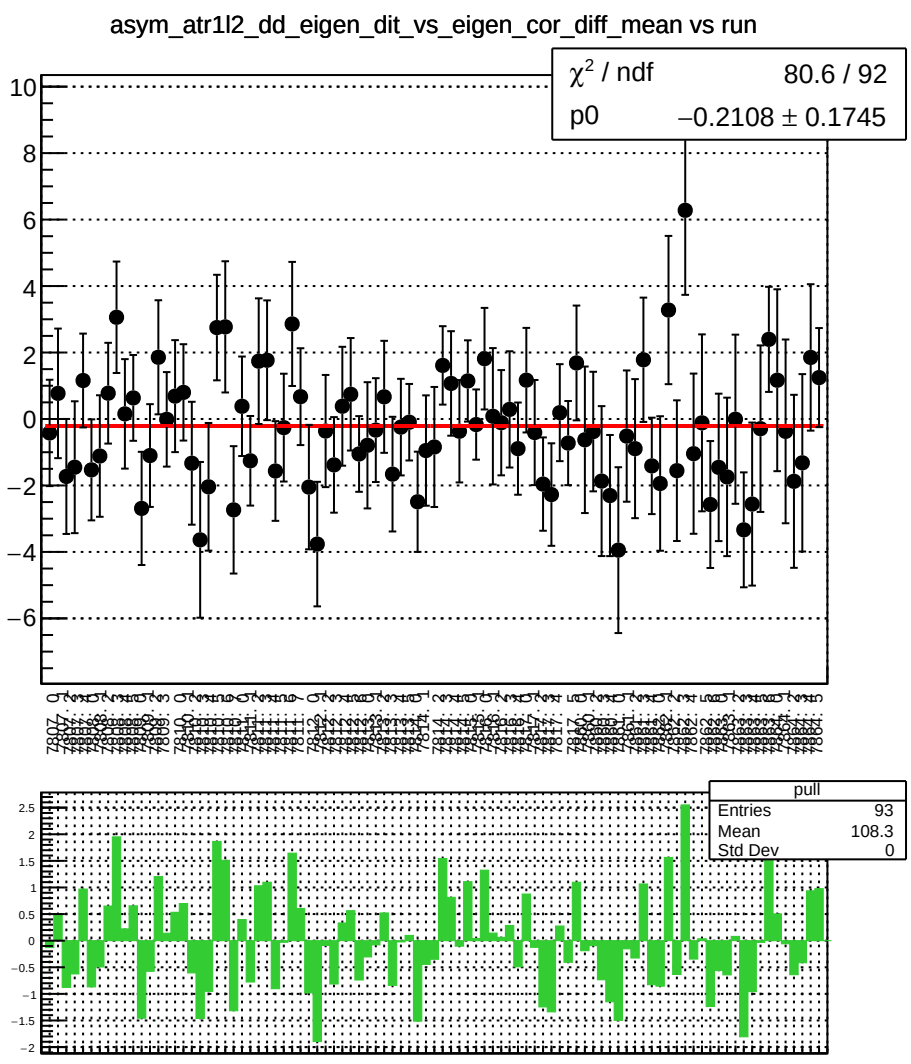

asym_atr1l2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.05 / 92
p0 −5.547e−06 ± 9.119e−06
pull
Entries 93
Mean −122.3
Std Dev 0
pull1D
Entries 93
Mean 0.006613
Std Dev 0.8863

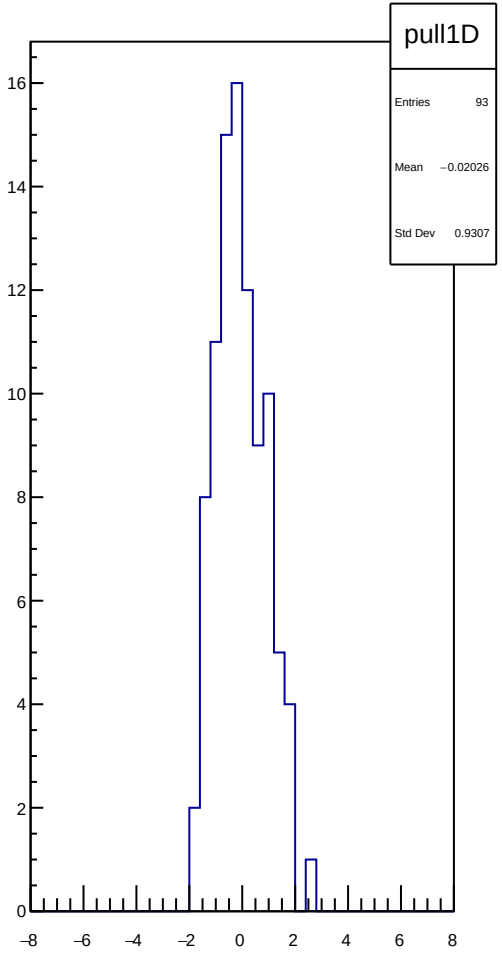

asym_atr1l2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.062e+04 / 92
p0 0.008581 ± 6.448e−06
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007

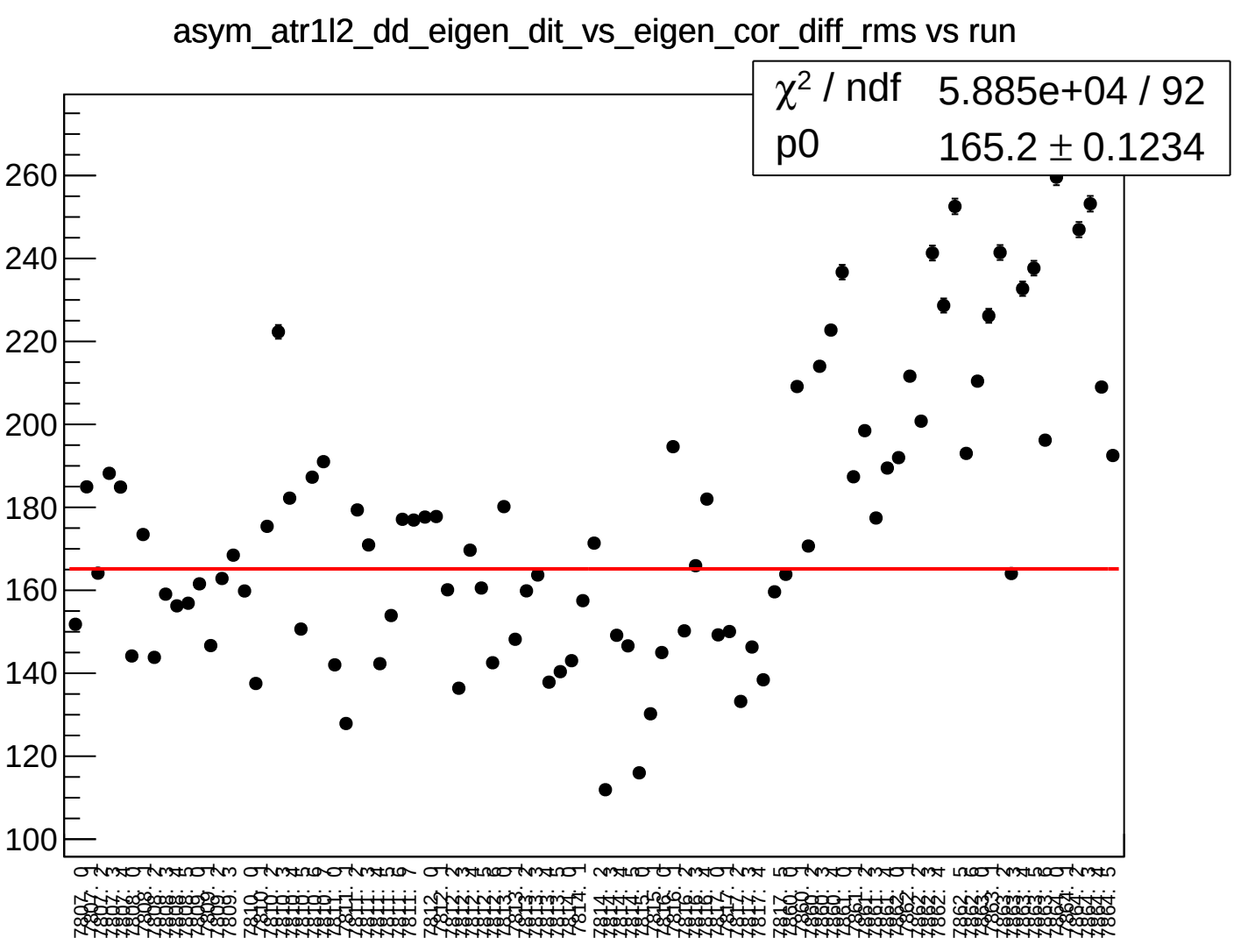

asym_atr1l2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.6 / 92
p0 −0.2108 ± 0.1745
pull
Entries 93
Mean 108.3
Std Dev 0

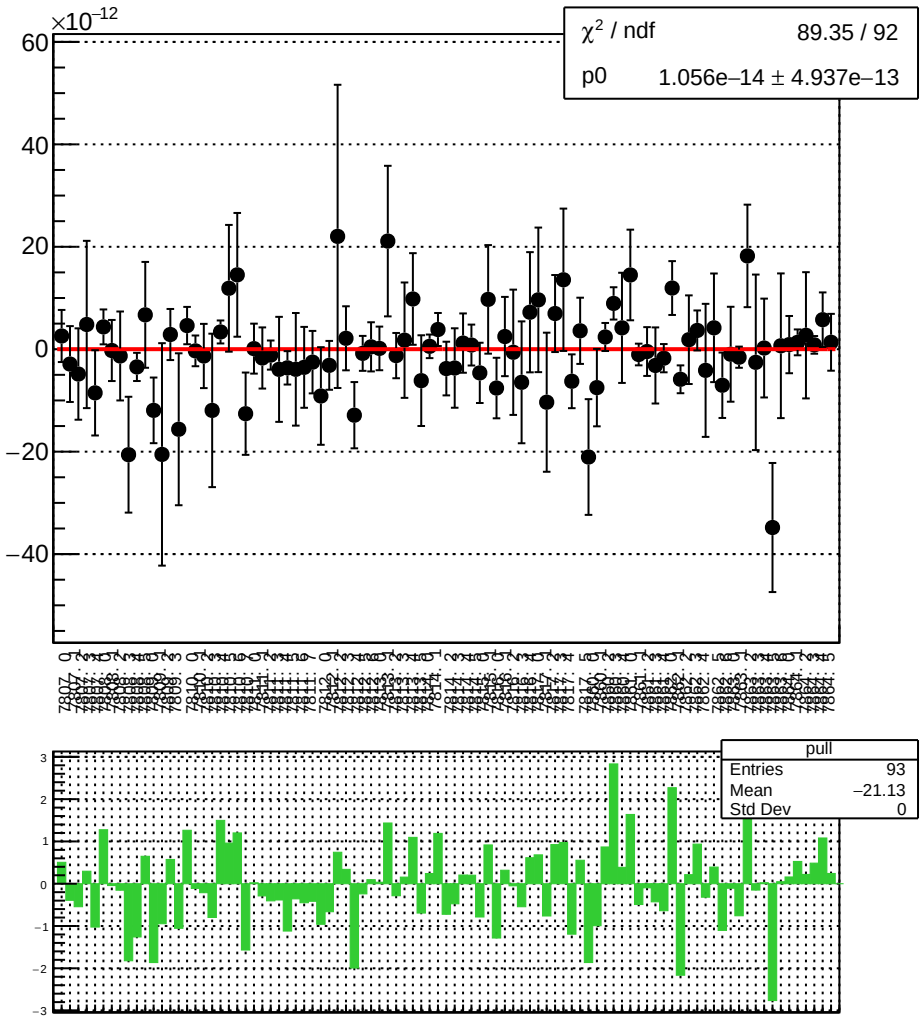

pull1D
Entries 93
Mean −0.02026
Std Dev 0.9307

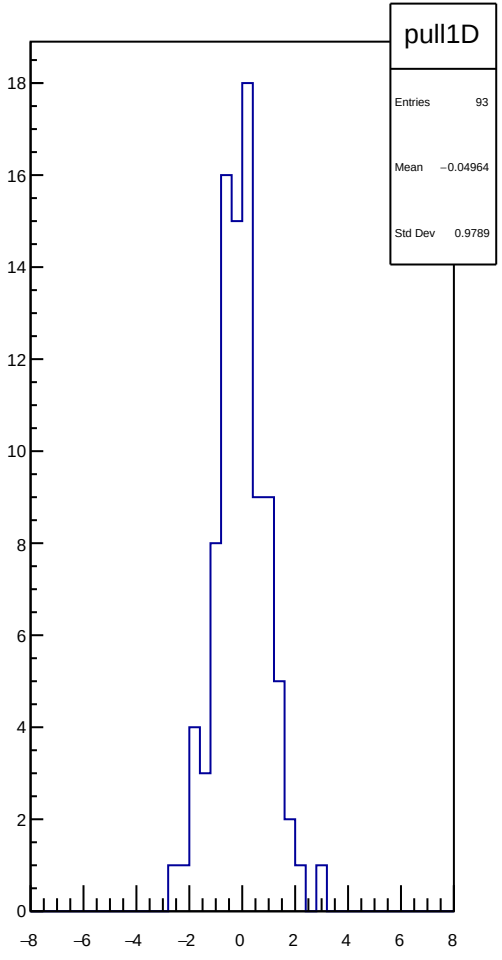

asym_atr1l2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.885e+04 / 92
p0 165.2 ± 0.1234
260
240
220
200
180
160
140
120
100

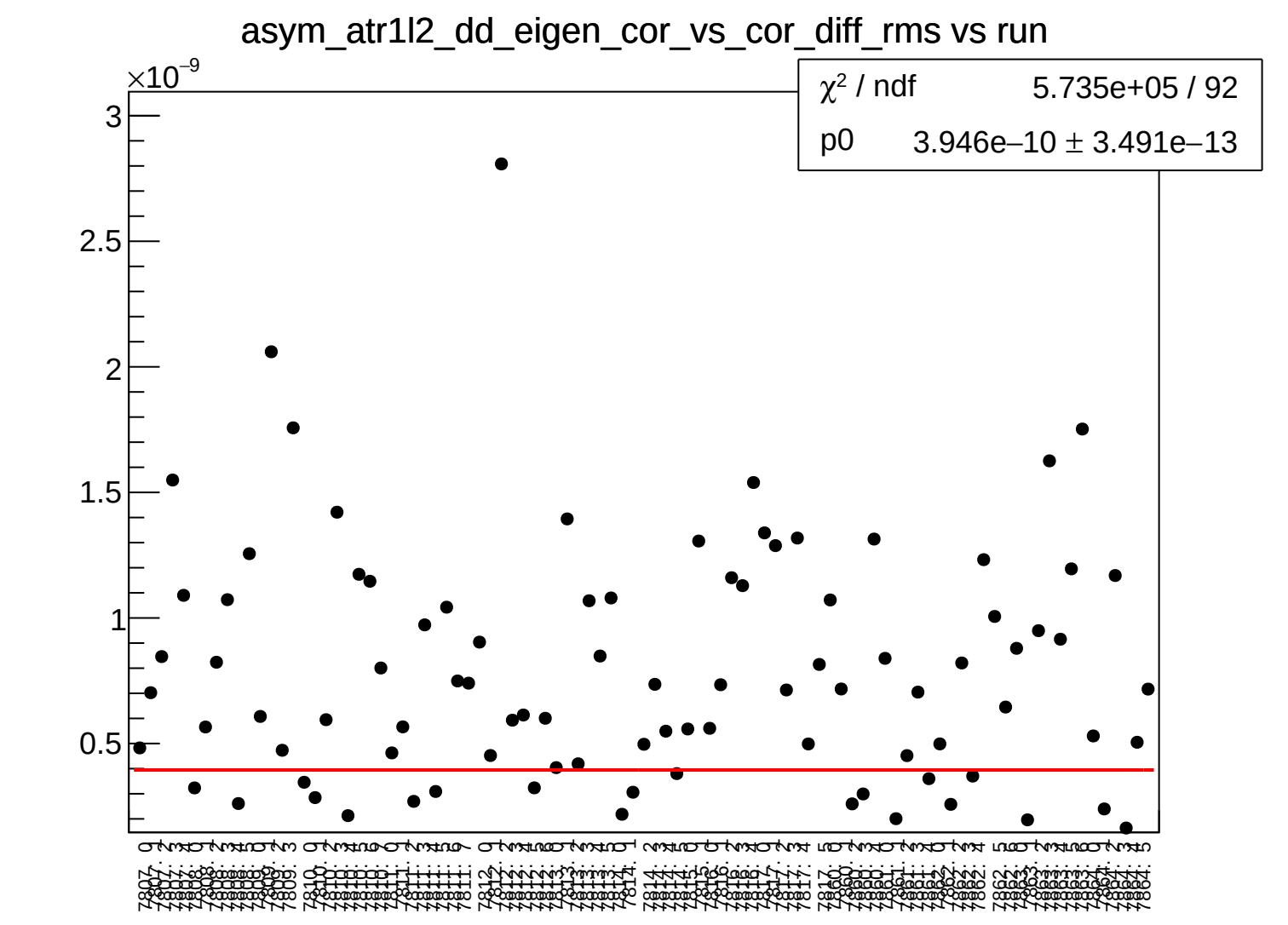

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.6 / 92
p0 −0.2108 ± 0.1745
pull
Entries 93
Mean 108.3
Std Dev 0

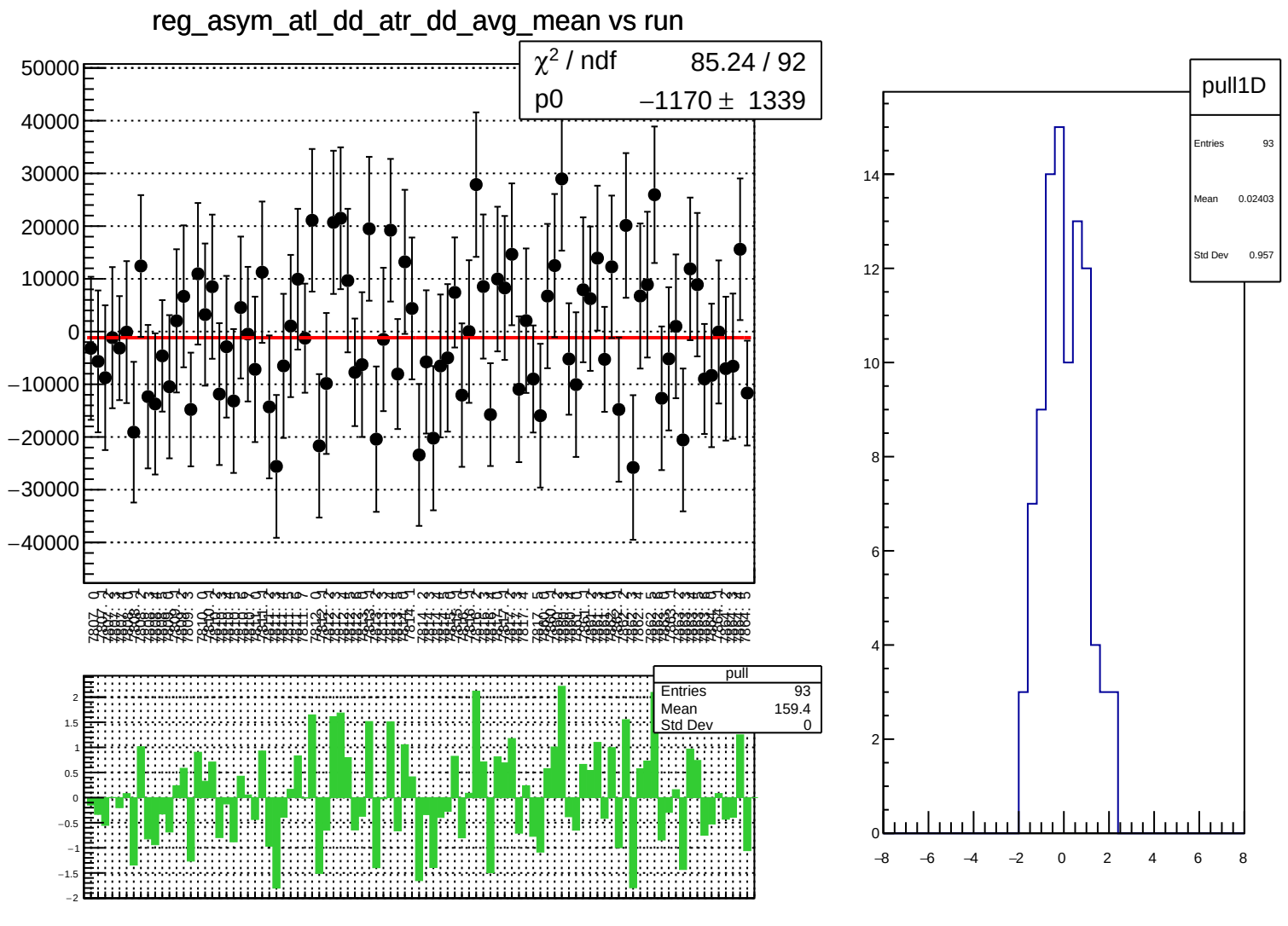

pull1D
Entries 93
Mean −0.02026
Std Dev 0.9307

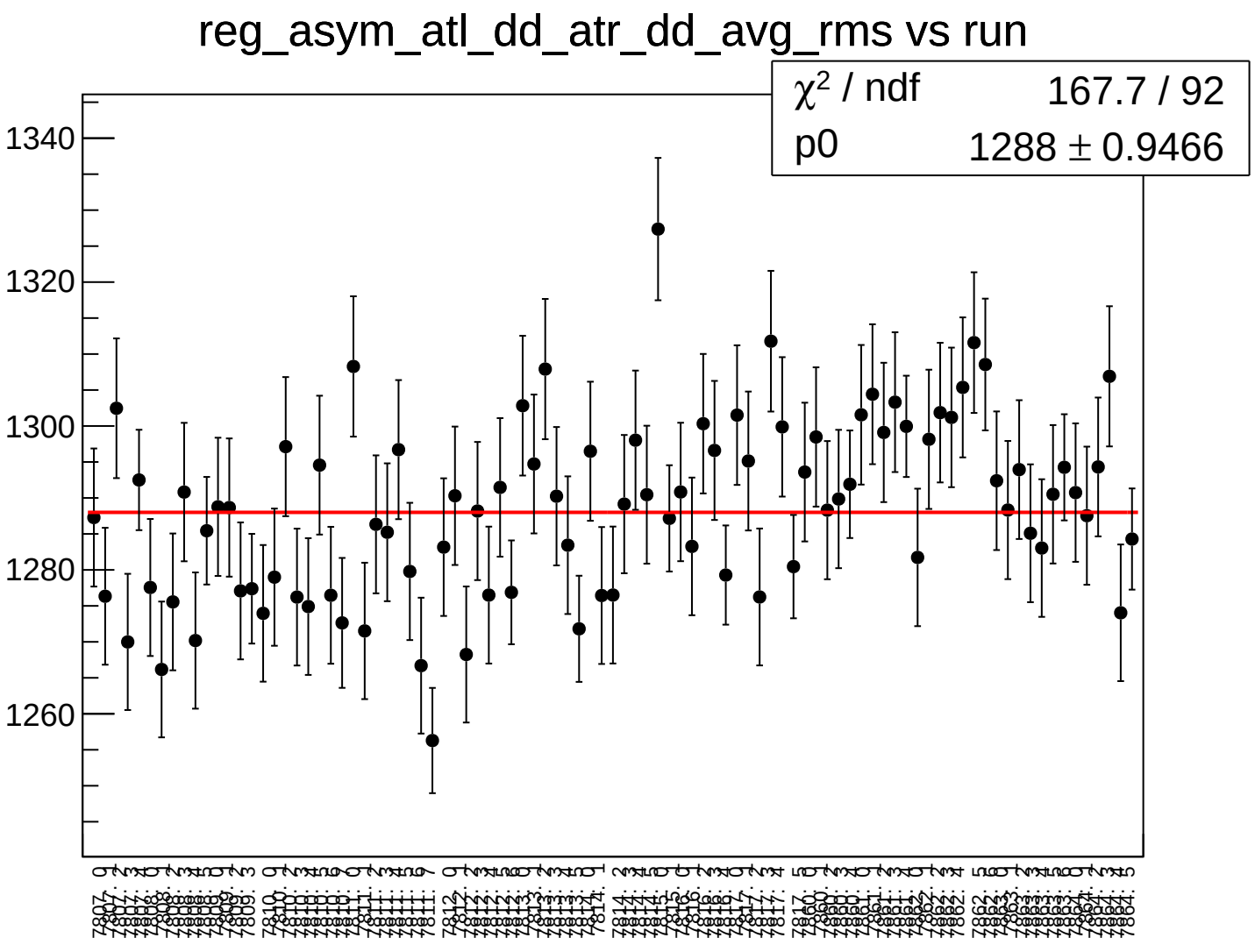

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.885e+04 / 92
p0 165.2 ± 0.1234
260
240
220
200
180
160
140
120
100

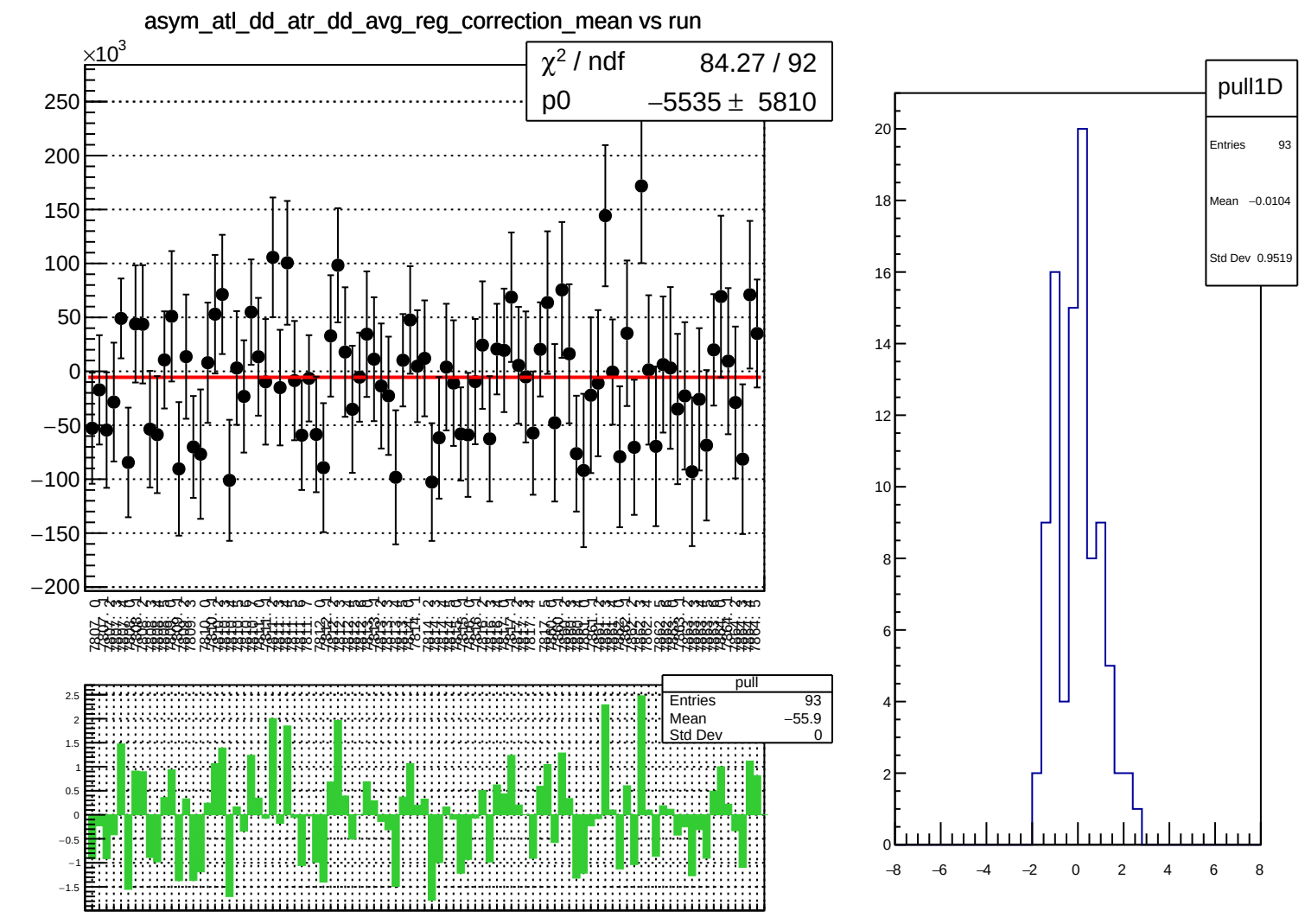

asym_atr1l2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.35 / 92
p0 1.056e−14 ± 4.937e−13
pull
Entries 93
Mean −21.13
Std Dev 0

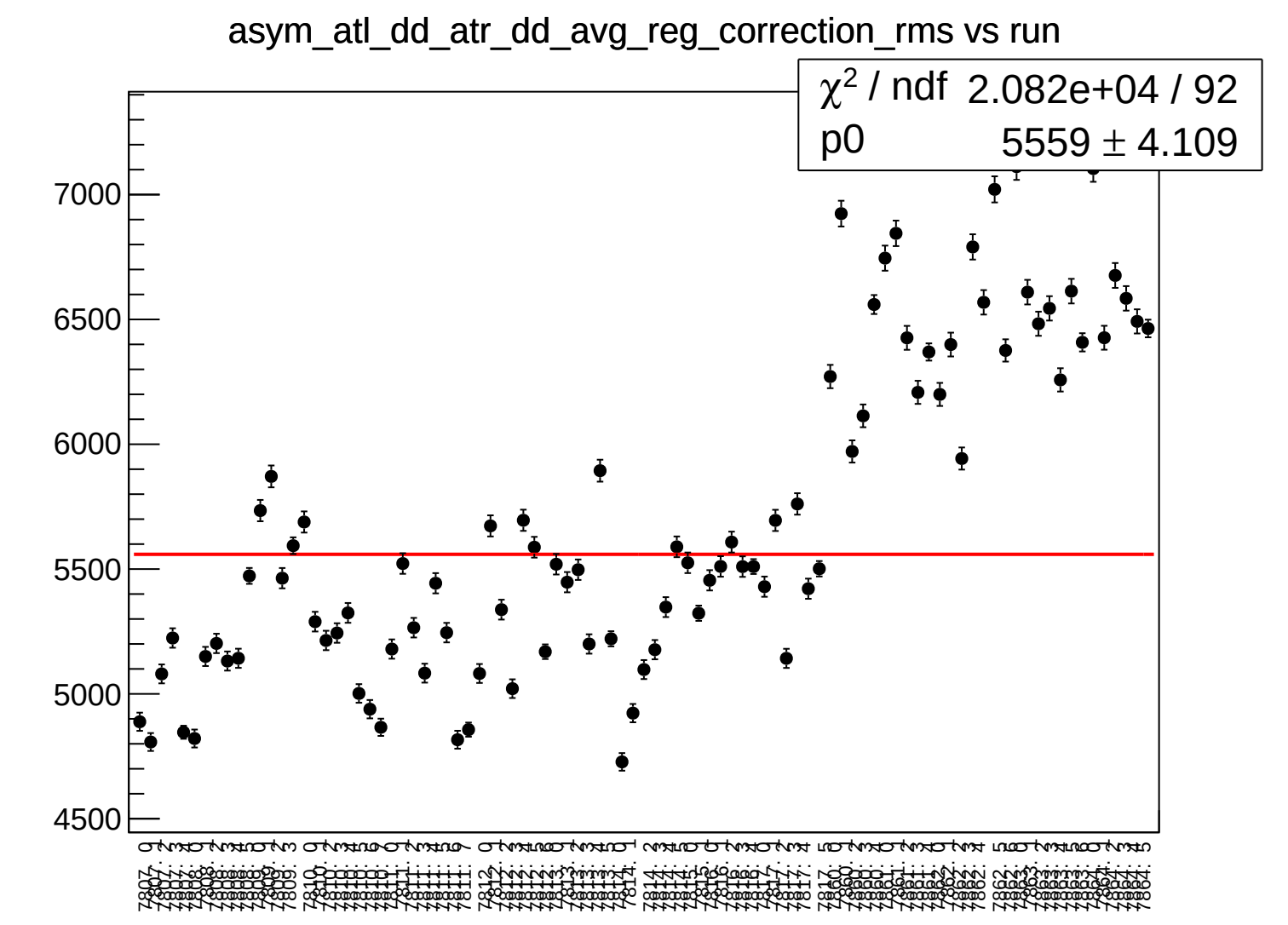

pull1D
Entries 93
Mean −0.04964
Std Dev 0.9789

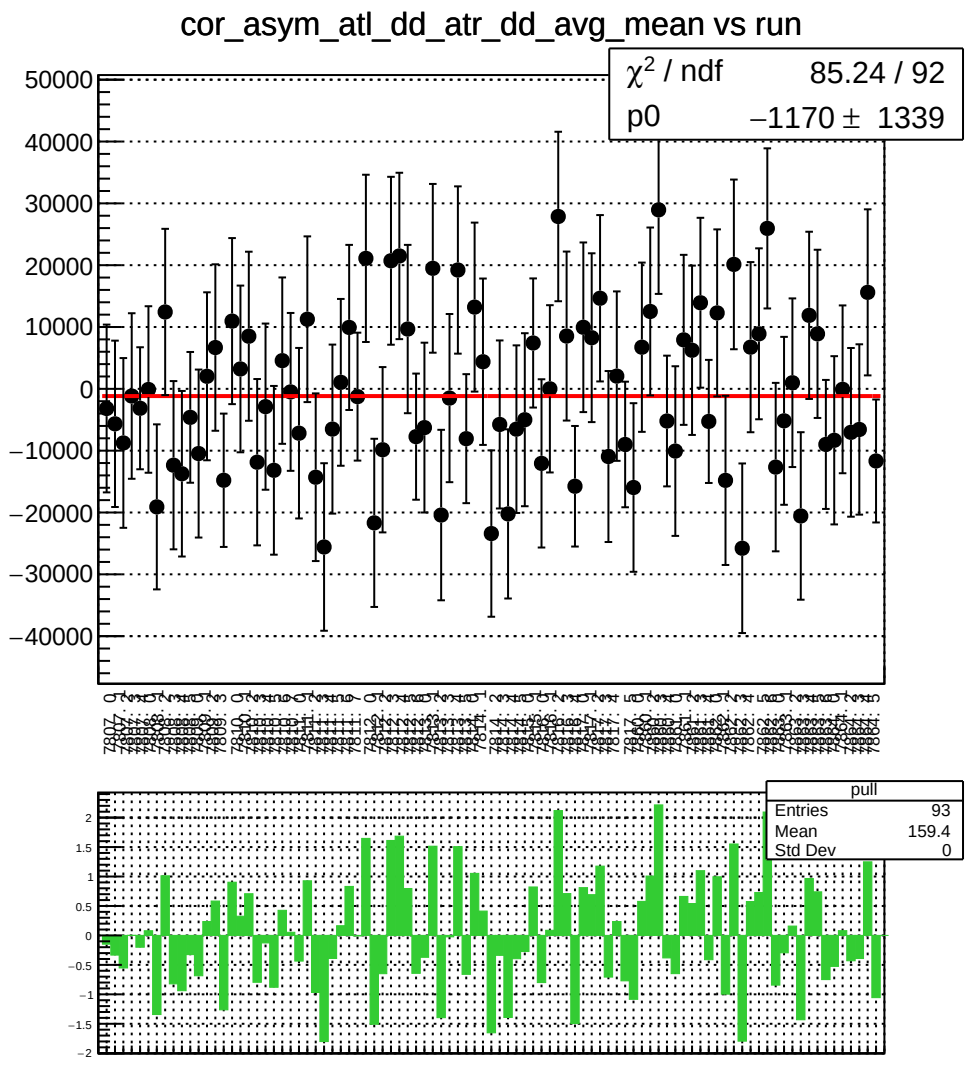

asym_atr1l2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.735e+05 / 92
p0 3.946e−10 ± 3.491e−13
3
2.5
2
1.5
1
0.5

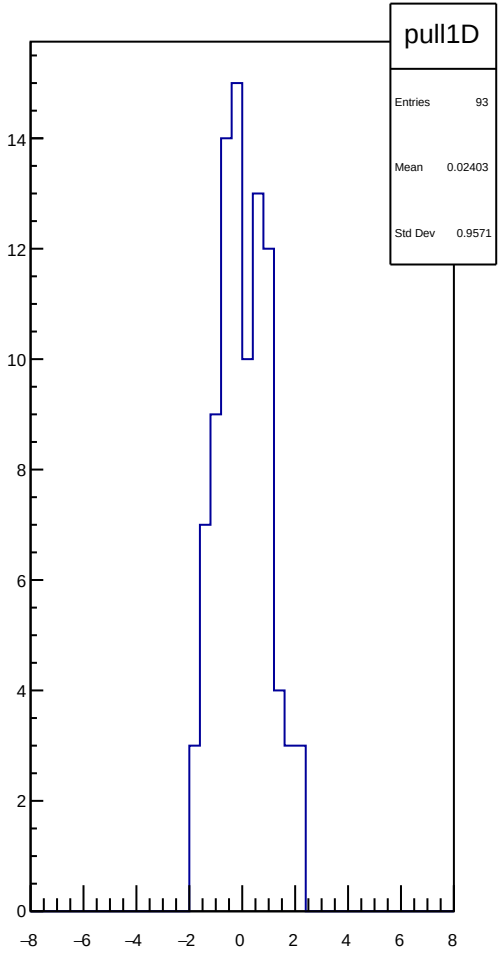

reg_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 85.24 / 92
p0 −1170 ± 1339
pull
Entries 93
Mean 159.4
Std Dev 0
pull1D
Entries 93
Mean 0.02403
Std Dev 0.957

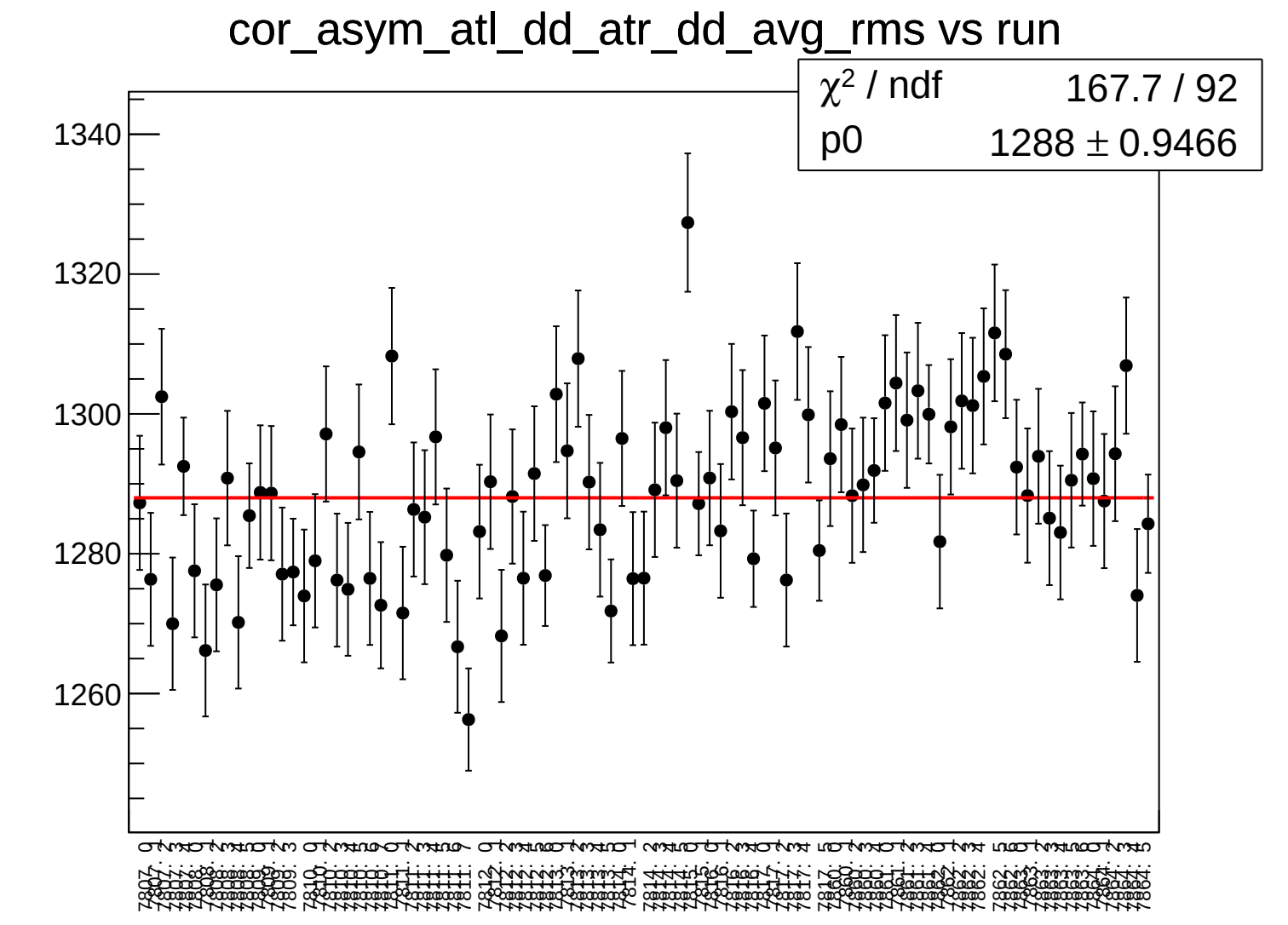

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 167.7 / 92
p0 1288 ± 0.9466
1340
1320
1300
1280
1260

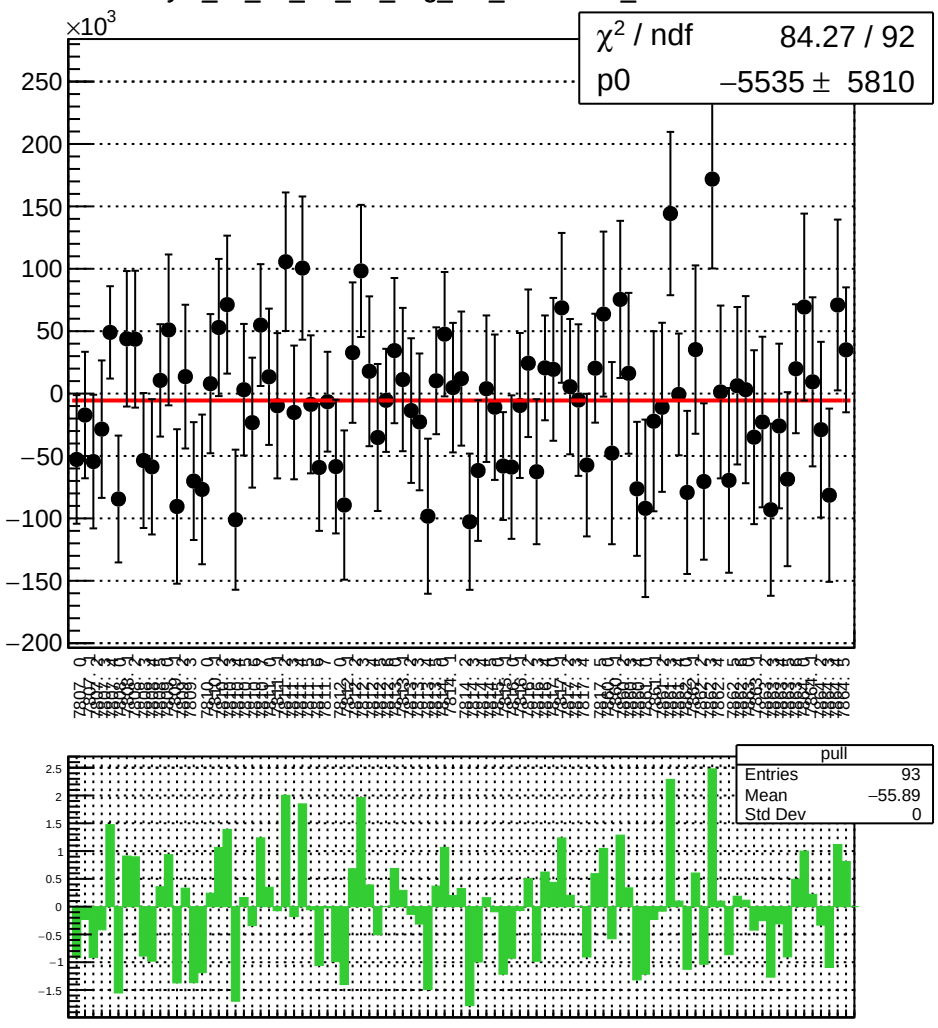

asym_atl_dd_atr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 84.27 / 92
p0 −5535 ± 5810
pull
Entries 93
Mean −55.9
Std Dev 0
pull1D
Entries 93
Mean −0.0104
Std Dev 0.9519

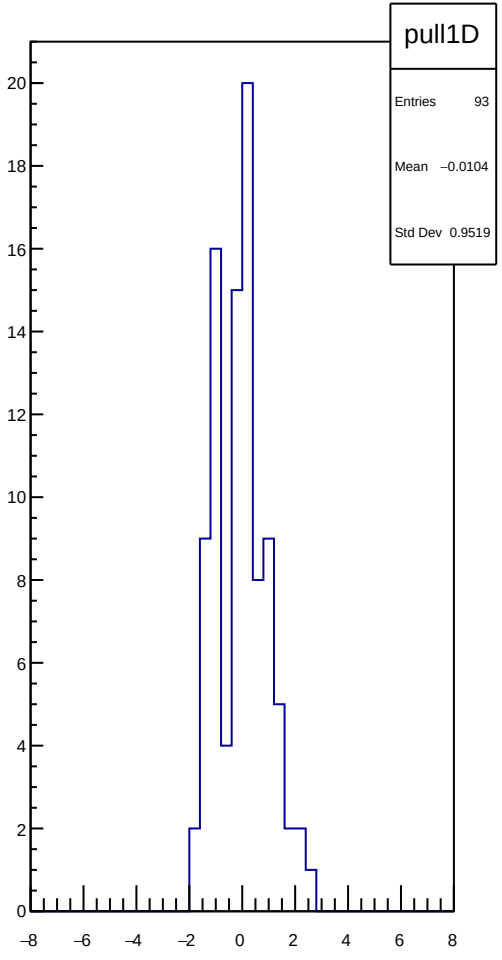

asym_atl_dd_atr_dd_avg_reg_correction_rms vs run
χ² / ndf 2.082e+04 / 92
p0 5559 ± 4.109
7000
6500
6000
5500
5000
4500

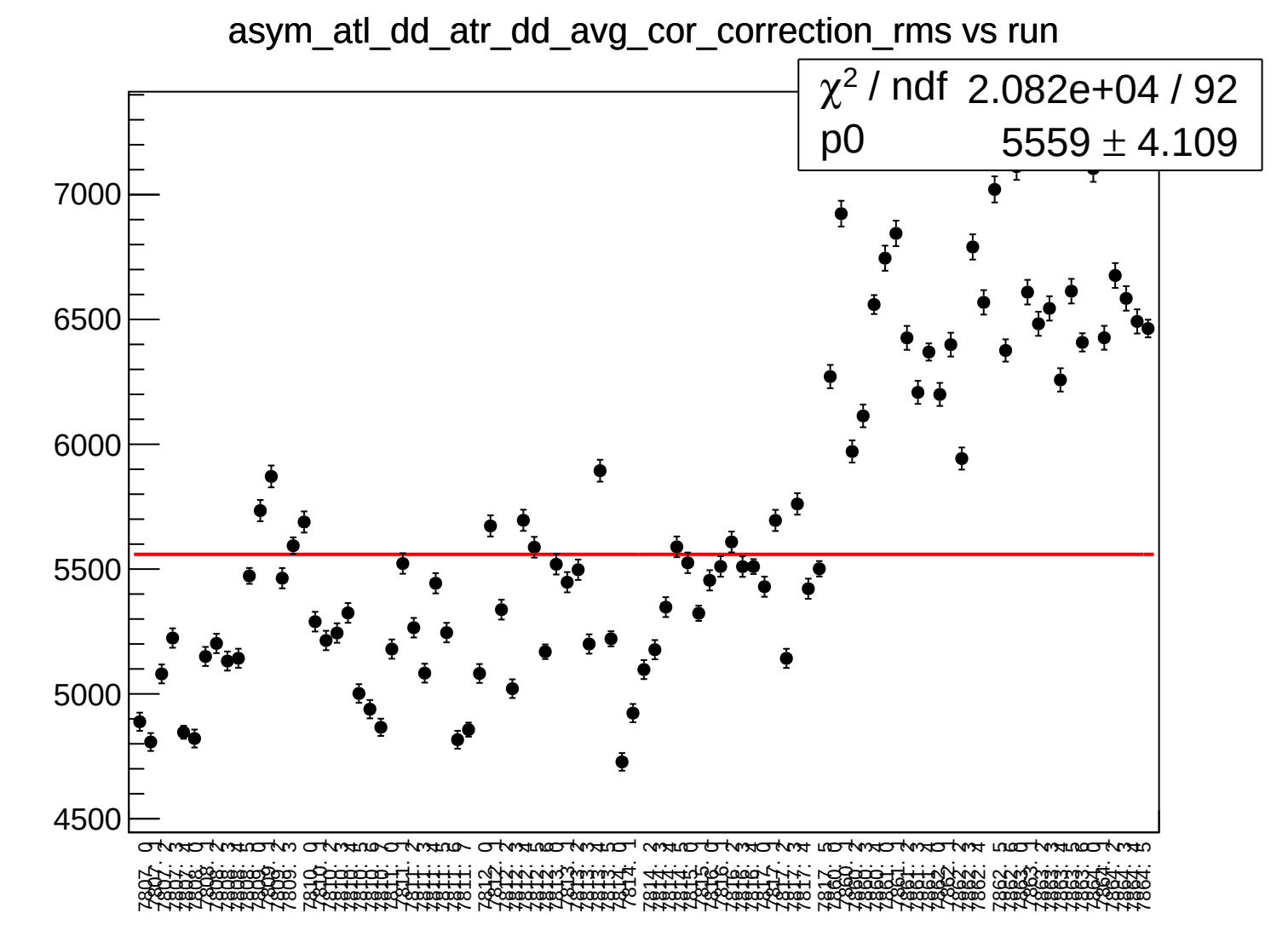

cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 85.24 / 92
p0 −1170 ± 1339
pull
Entries 93
Mean 159.4
Std Dev 0

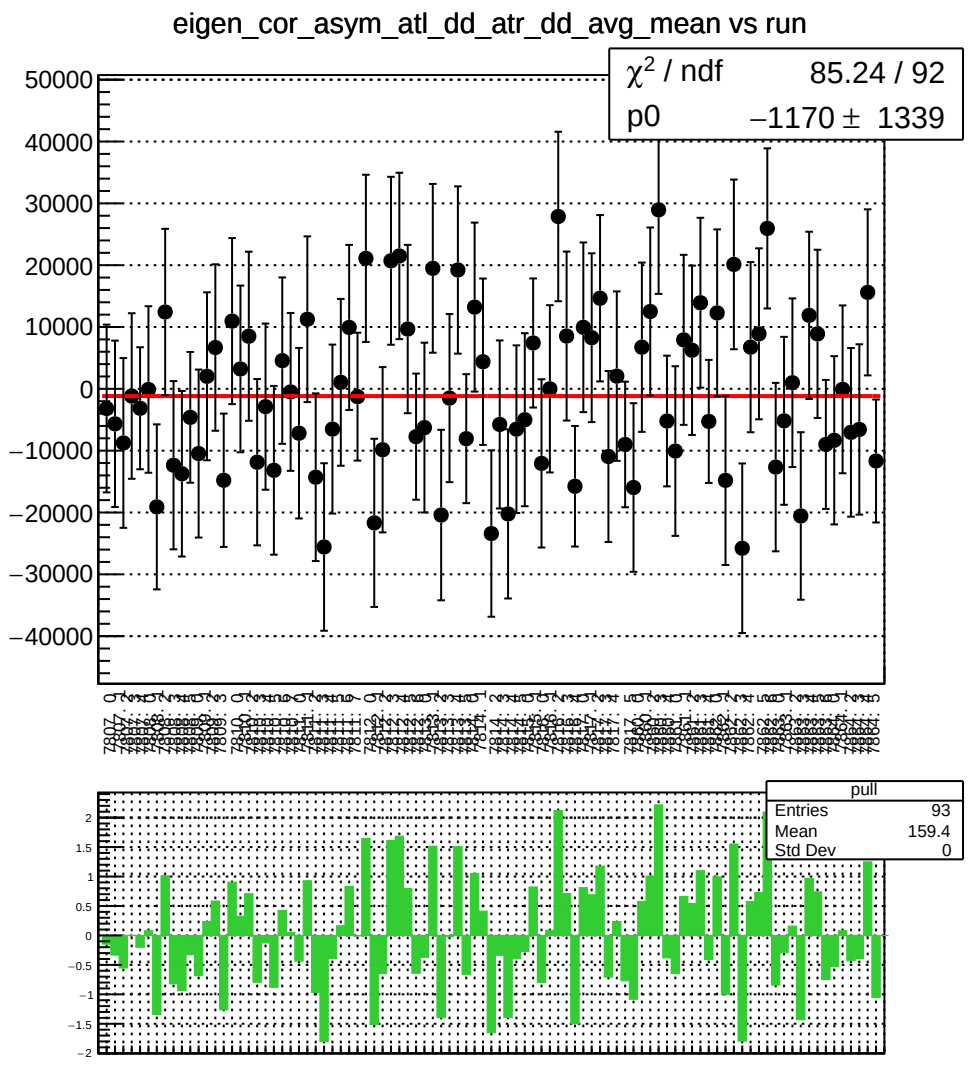

pull1D
Entries 93
Mean 0.02403
Std Dev 0.9571

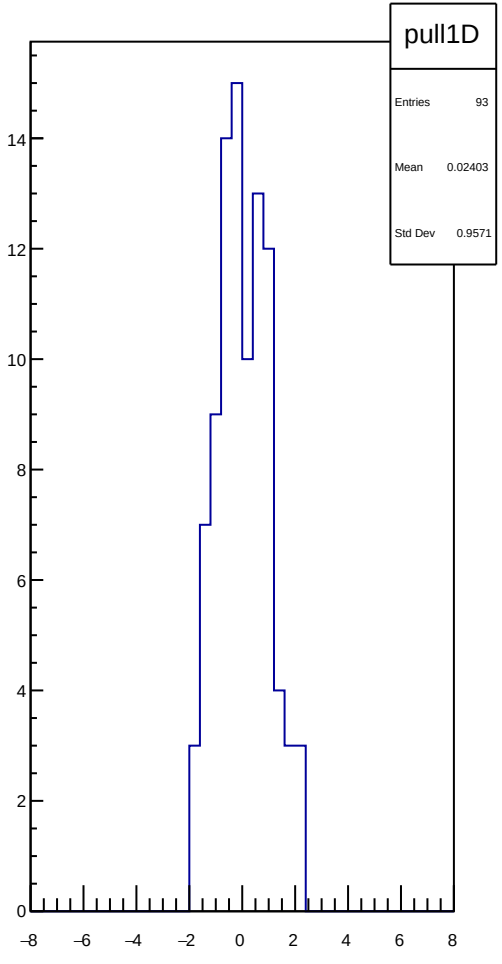

cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 167.7 / 92
p0 1288 ± 0.9466
1340
1320
1300
1280
1260

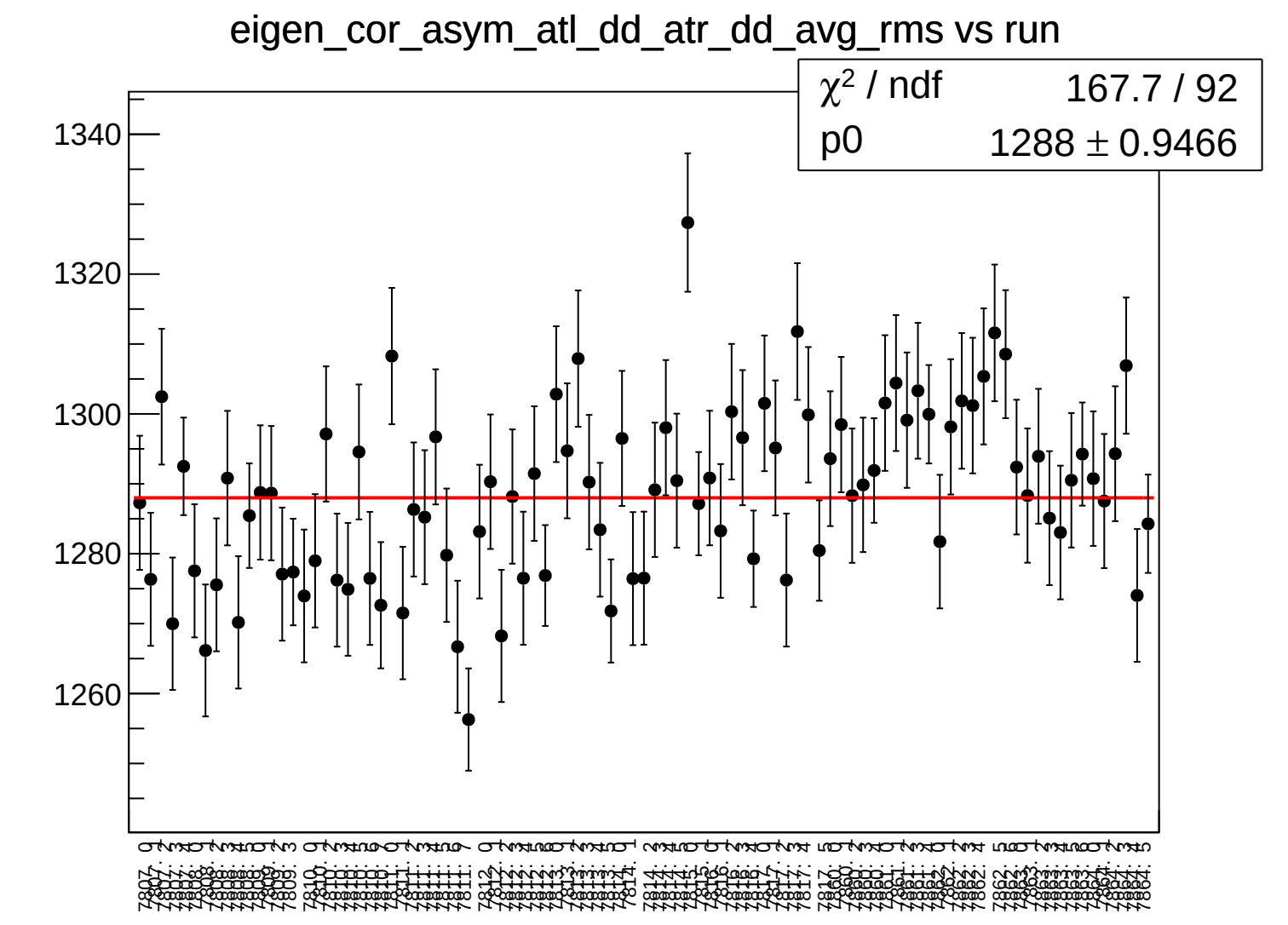

asym_atl_dd_atr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 84.27 / 92
p0 −5535 ± 5810
pull
Entries 93
Mean −55.89
Std Dev 0

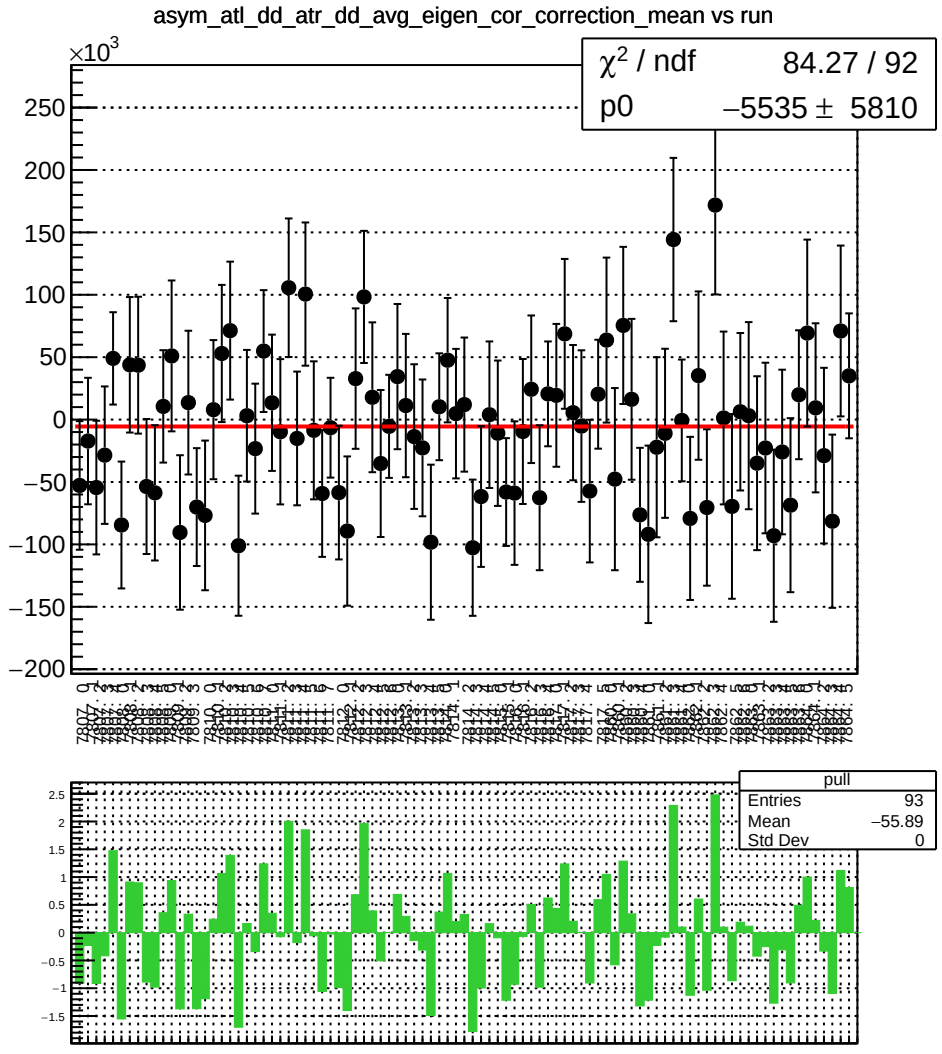

pull1D
Entries 93
Mean −0.0104
Std Dev 0.9519

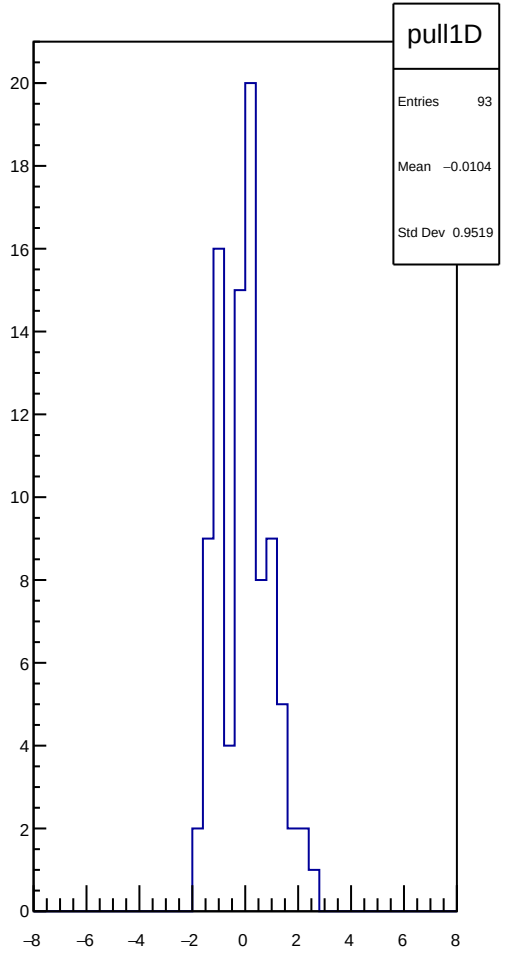

asym_atl_dd_atr_dd_avg_cor_correction_rms vs run
χ² / ndf 2.082e+04 / 92
p0 5559 ± 4.109
7000
6500
6000
5500
5000
4500

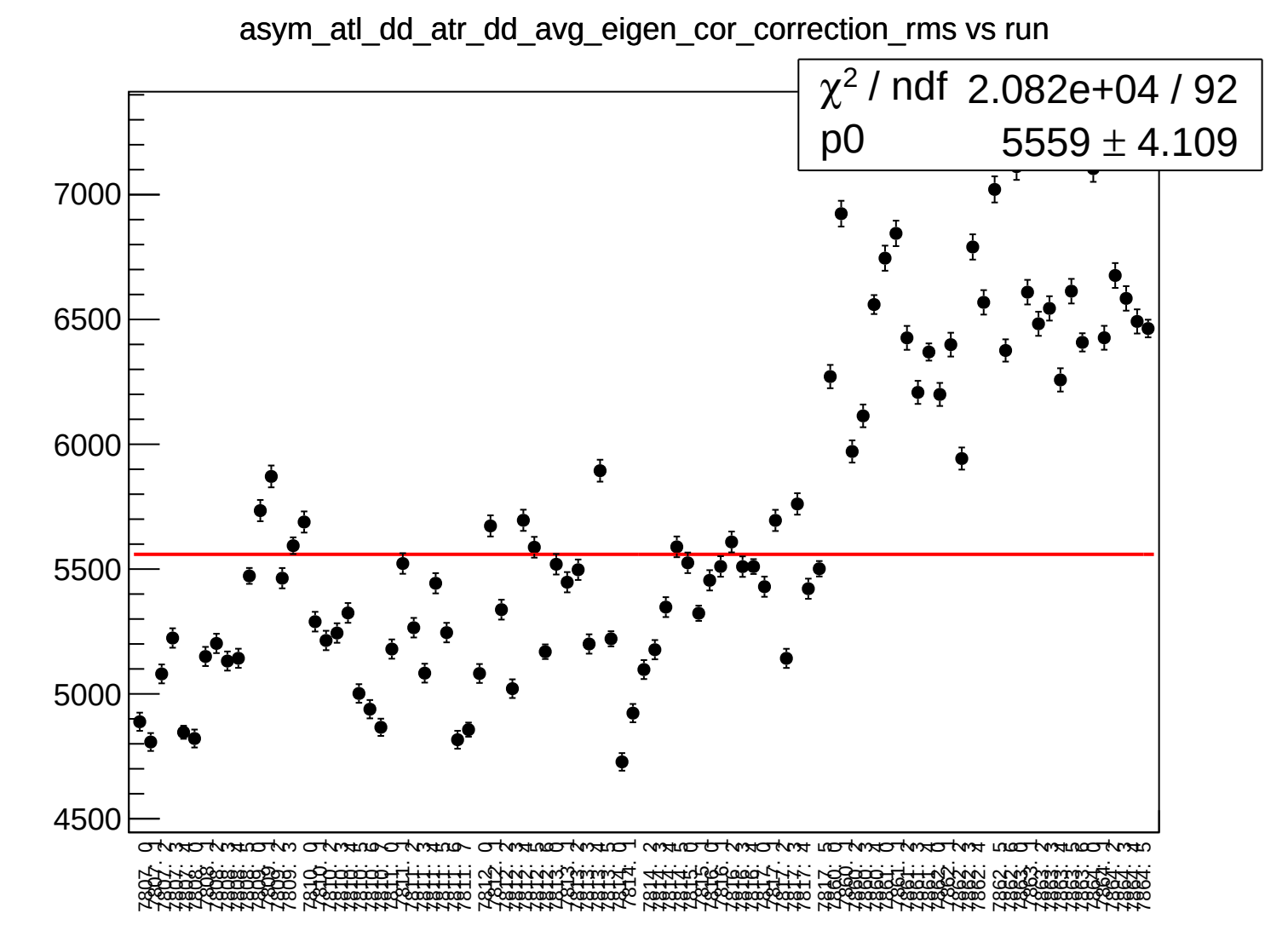

eigen_cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 85.24 / 92
p0 −1170 ± 1339
pull
Entries 93
Mean 159.4
Std Dev 0

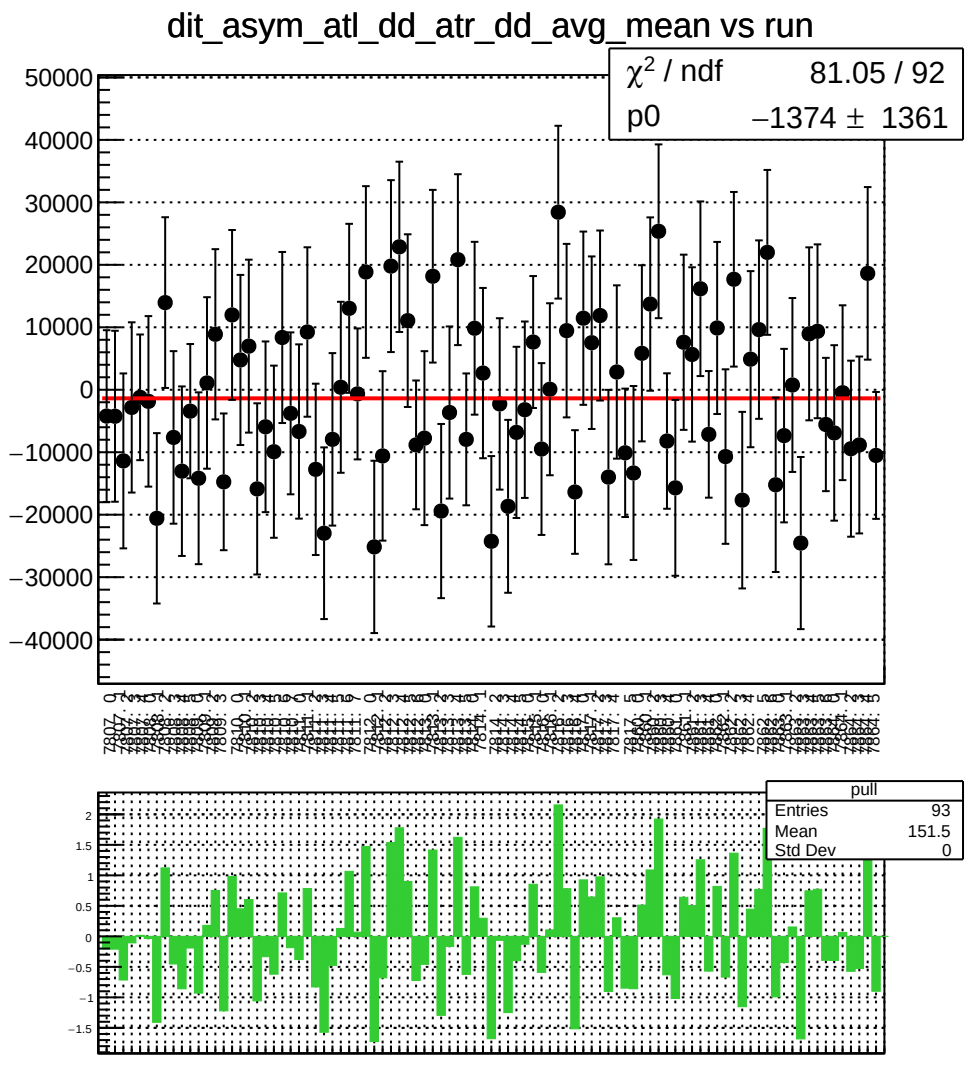

pull1D
Entries 93
Mean 0.02403
Std Dev 0.9571

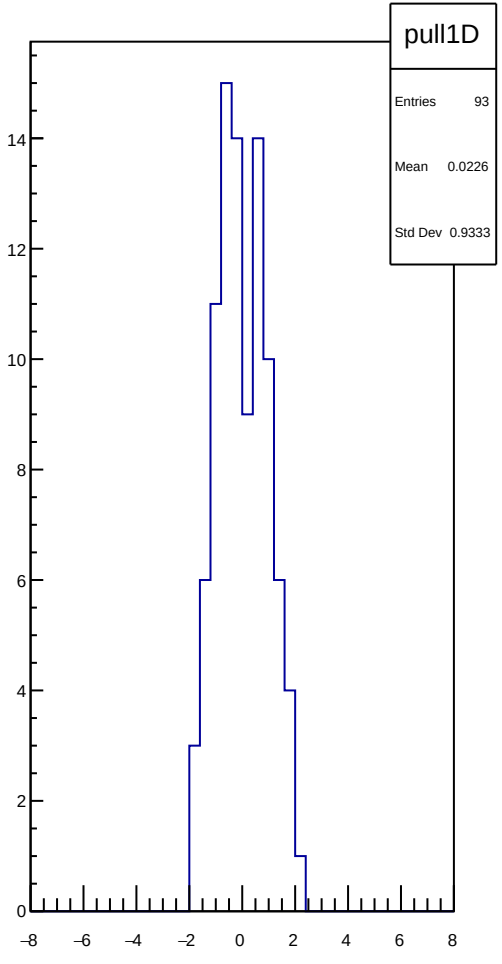

eigen_cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 167.7 / 92
p0 1288 ± 0.9466
1340
1320
1300
1280
1260

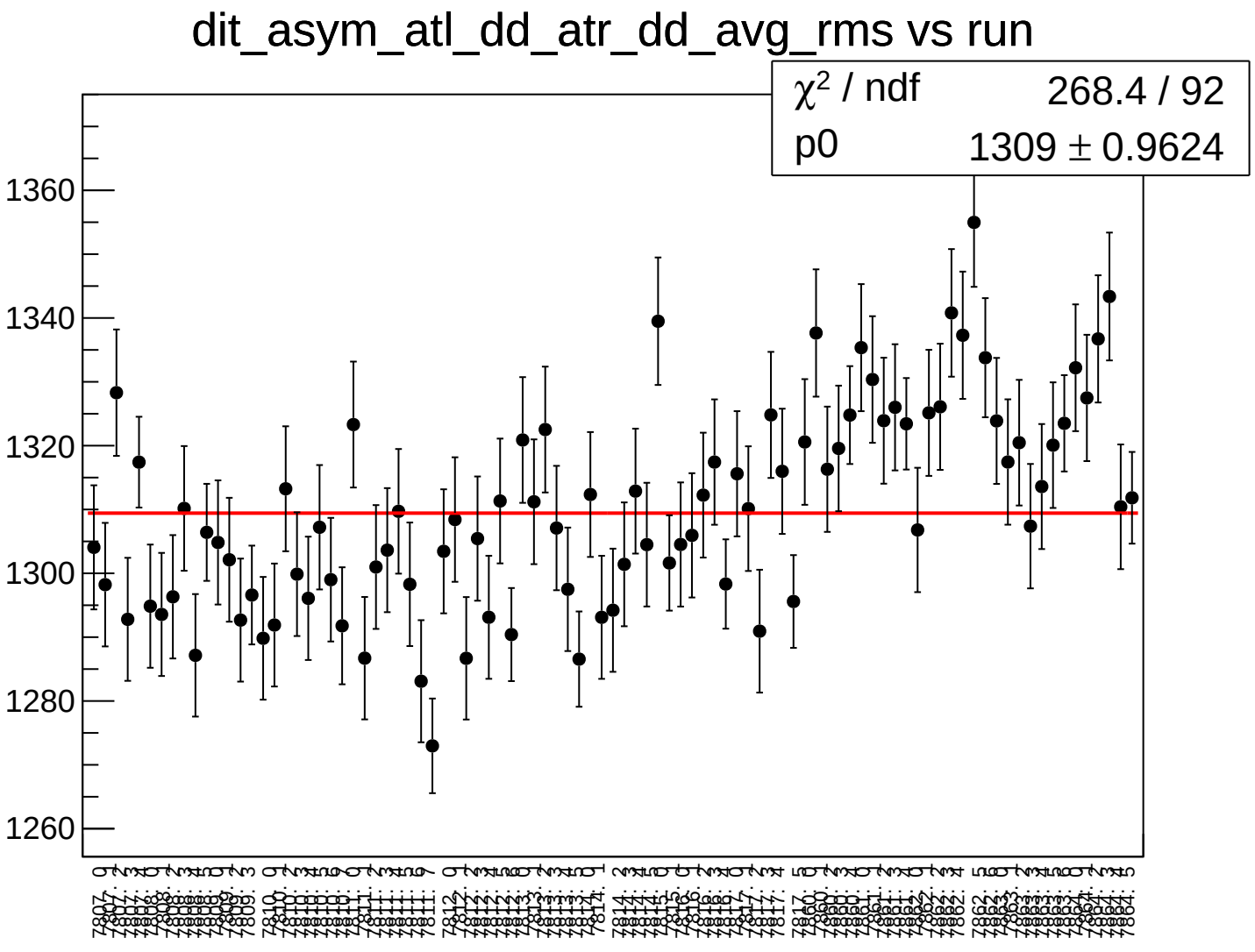

asym_atl_dd_atr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 84.27 / 92
p0 −5535 ± 5810
×10³
pull
Entries 93
Mean −55.89
Std Dev 0

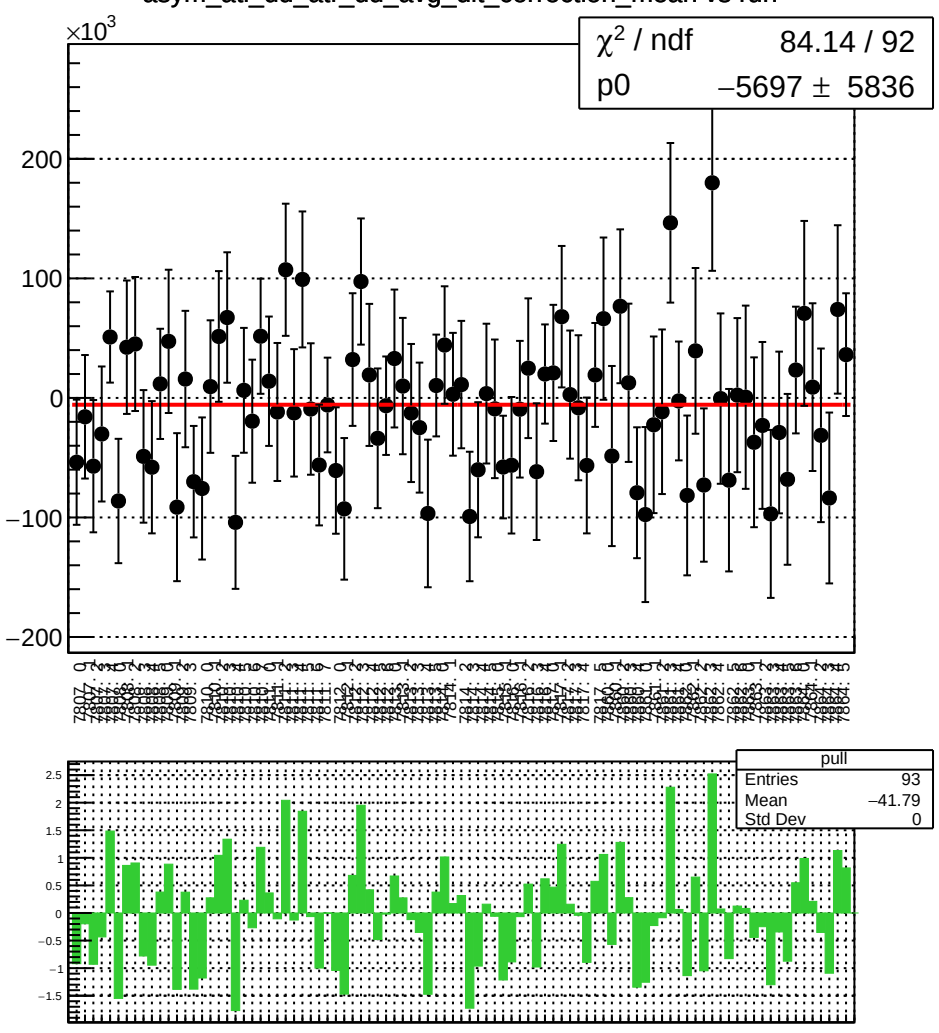

pull1D
Entries 93
Mean −0.0104
Std Dev 0.9519

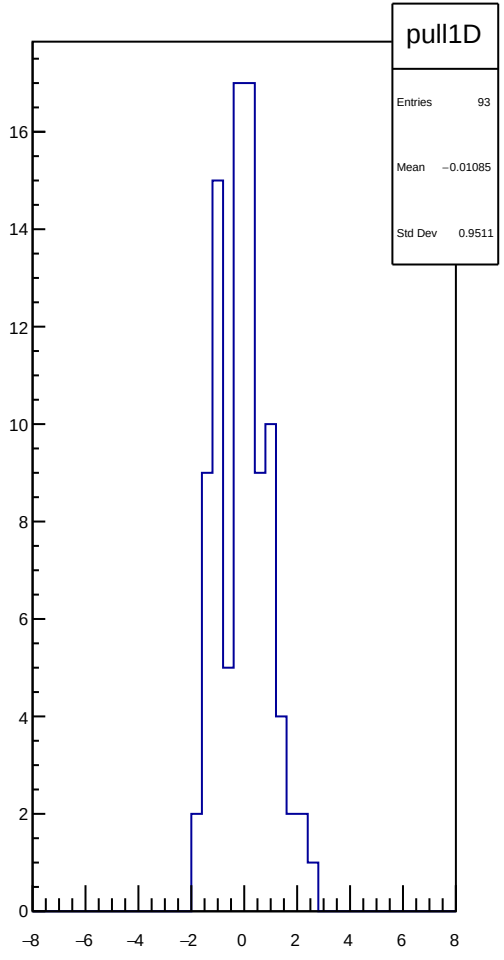

asym_atl_dd_atr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.082e+04 / 92
p0 5559 ± 4.109
7000
6500
6000
5500
5000
4500

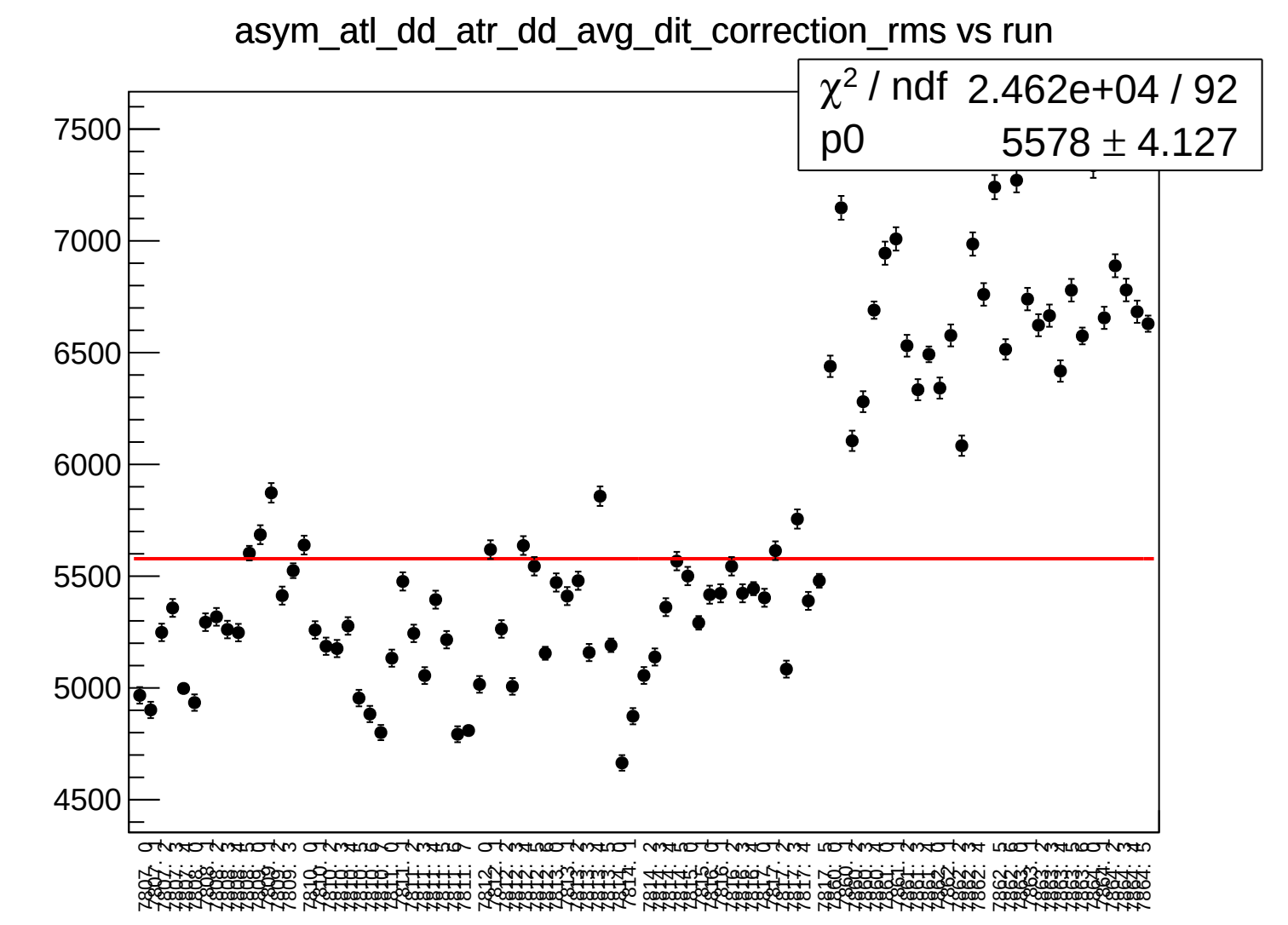

dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 81.05 / 92
p0 −1374 ± 1361
pull
Entries 93
Mean 151.5
Std Dev 0

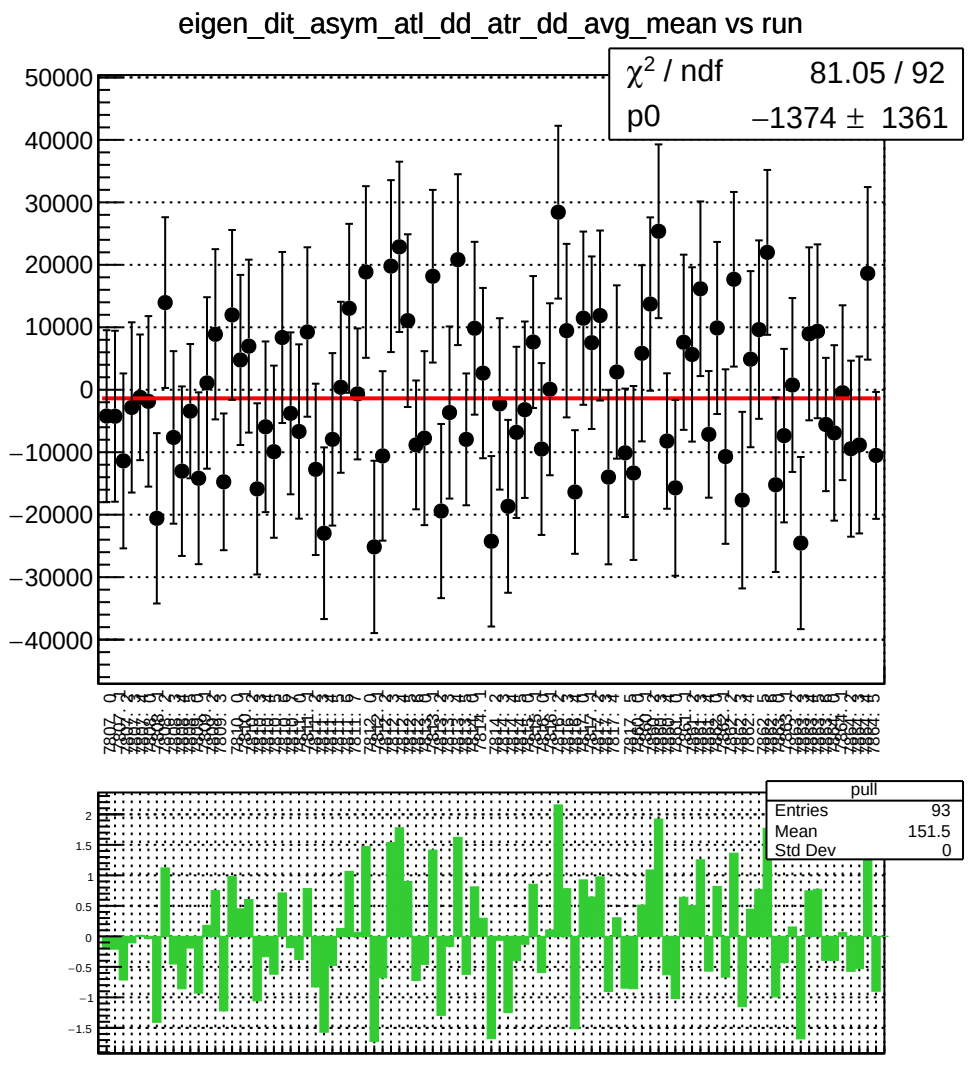

pull1D
Entries 93
Mean 0.0226
Std Dev 0.9333

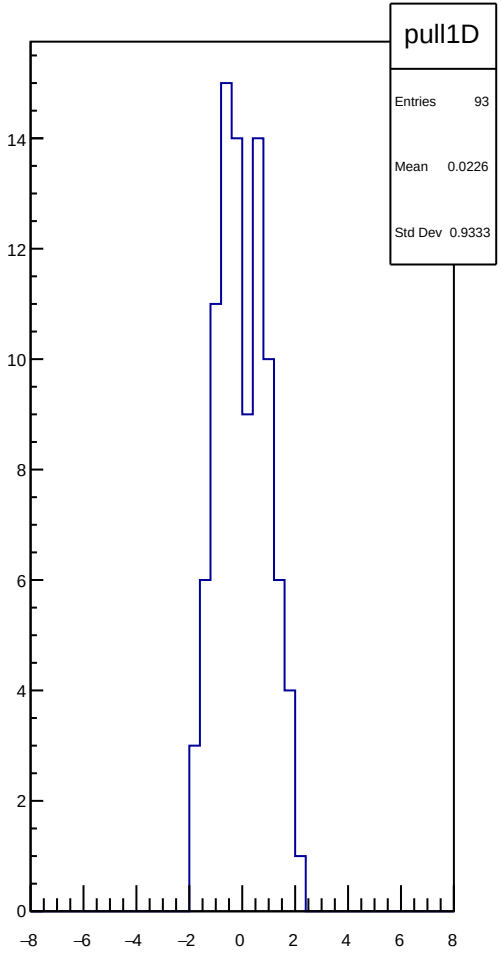

dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 268.4 / 92
p0 1309 ± 0.9624
1360
1340
1320
1300
1280
1260

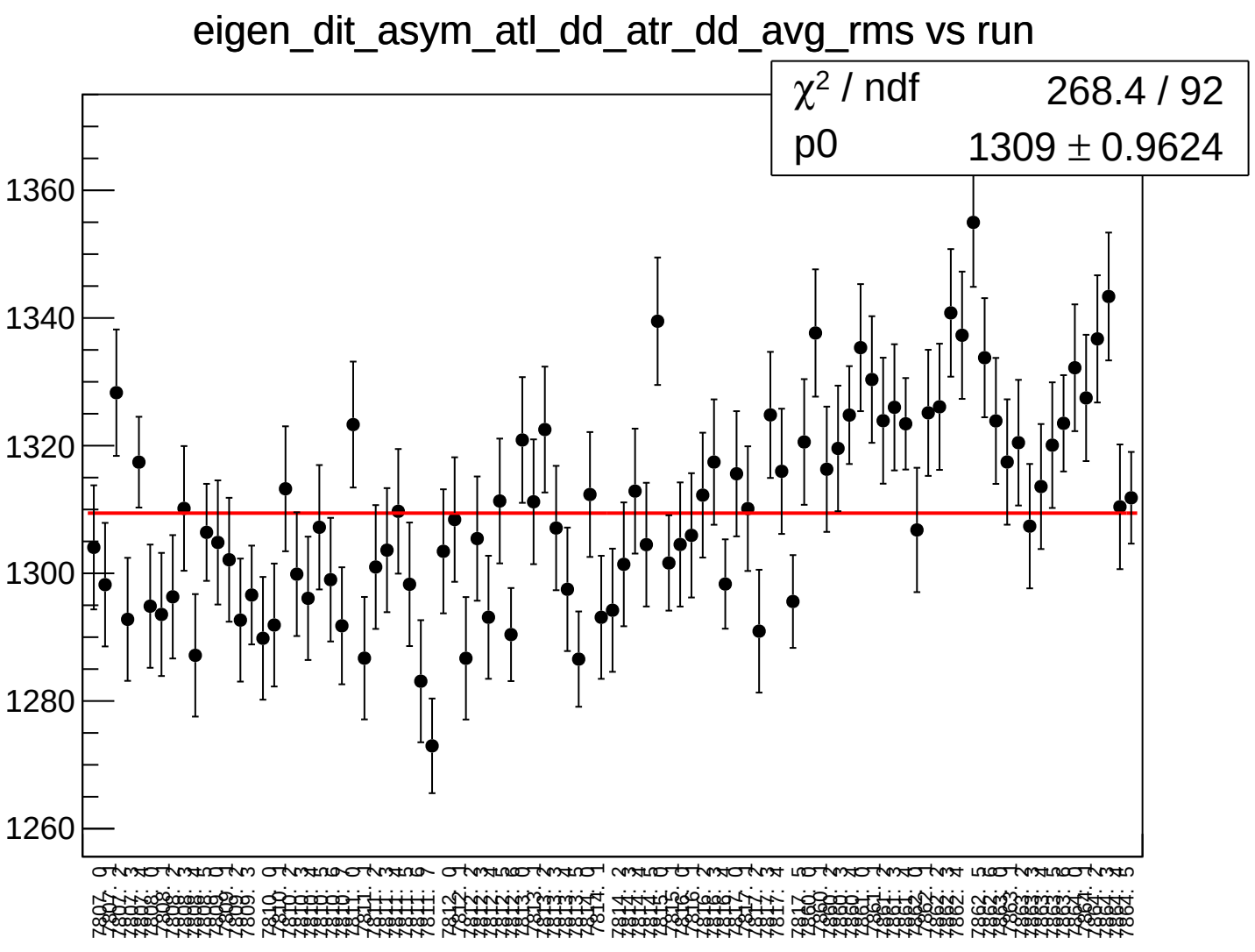

asym_atl_dd_atr_dd_avg_dit_correction_mean vs run
χ² / ndf 84.14 / 92
p0 −5697 ± 5836
×10³
200
100
0
−100
−200
pull
Entries 93
Mean −41.79
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

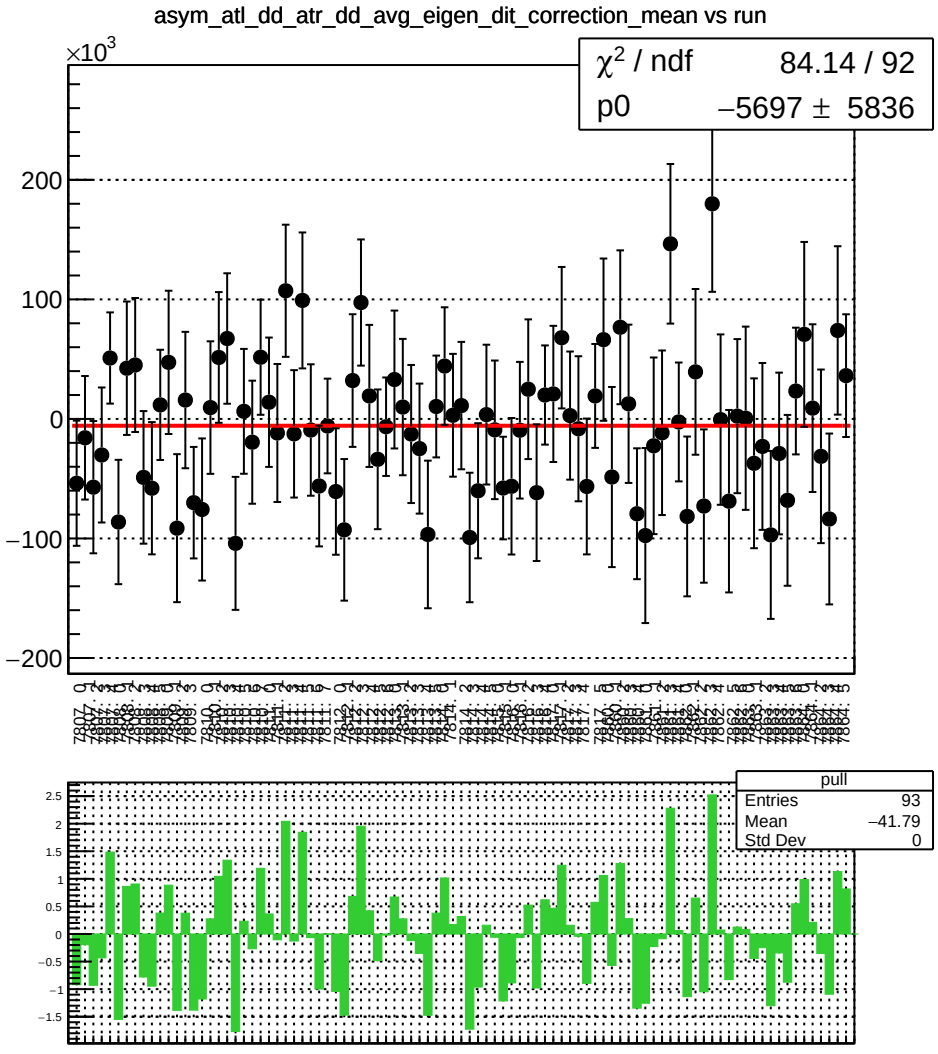

pull1D
Entries 93
Mean −0.01085
Std Dev 0.9511
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

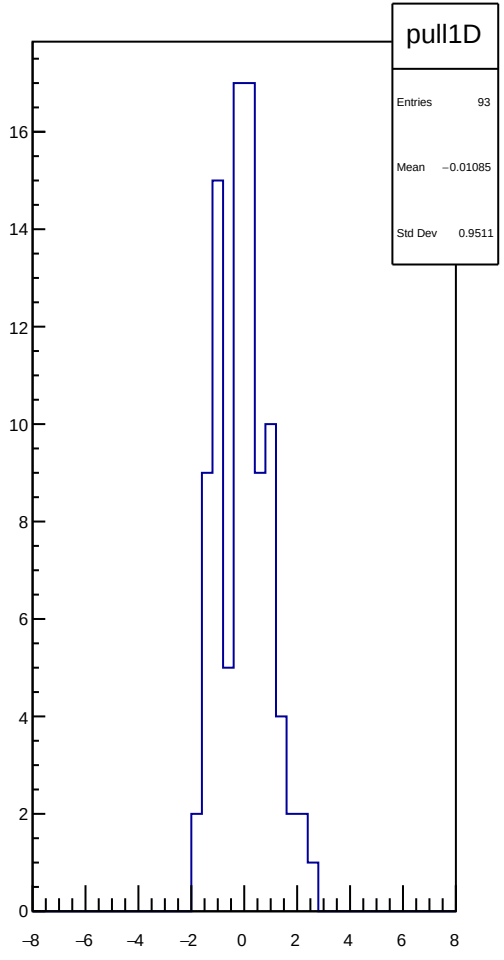

asym_atl_dd_atr_dd_avg_dit_correction_rms vs run
χ² / ndf 2.462e+04 / 92
p0 5578 ± 4.127
7500
7000
6500
6000
5500
5000
4500

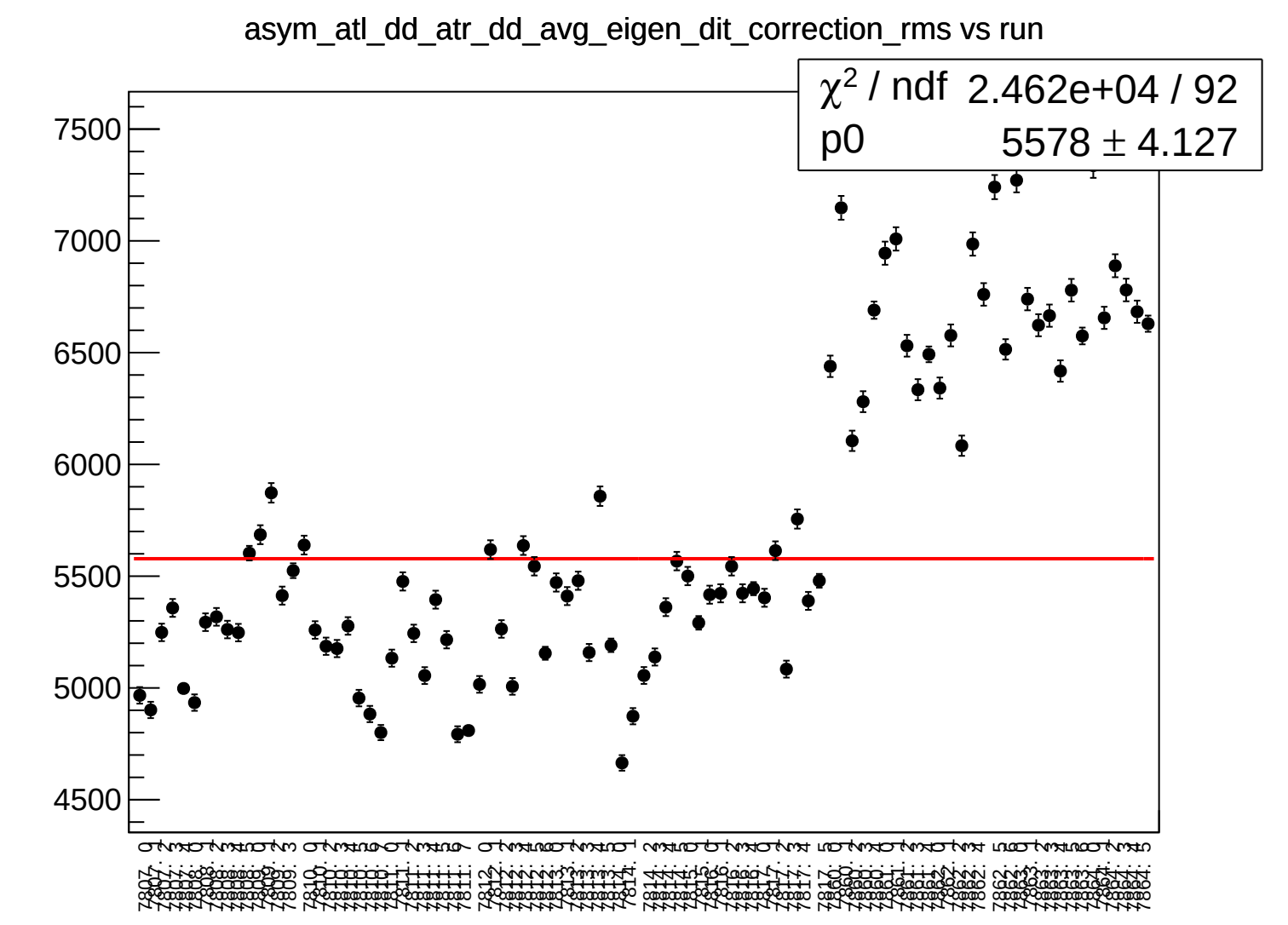

eigen_dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 81.05 / 92
p0 −1374 ± 1361
pull
Entries 93
Mean 151.5
Std Dev 0

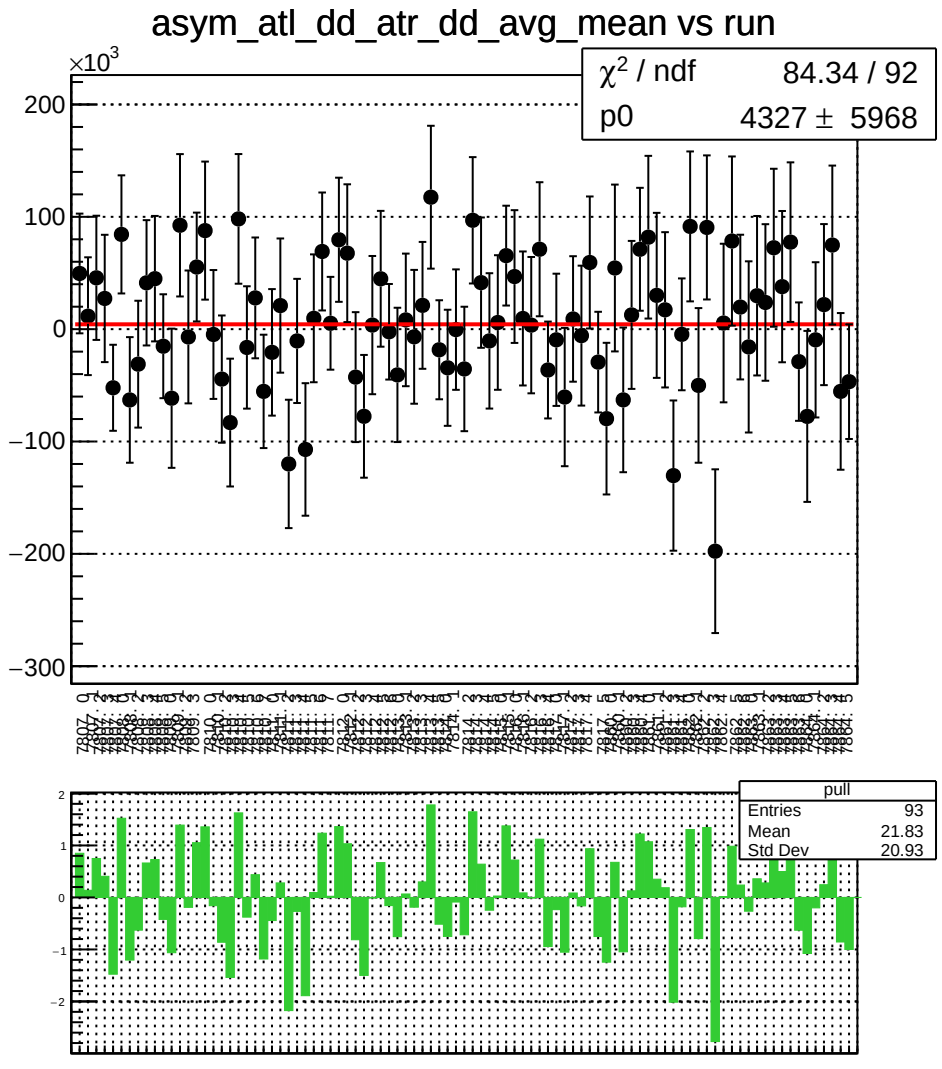

pull1D
Entries 93
Mean 0.0226
Std Dev 0.9333

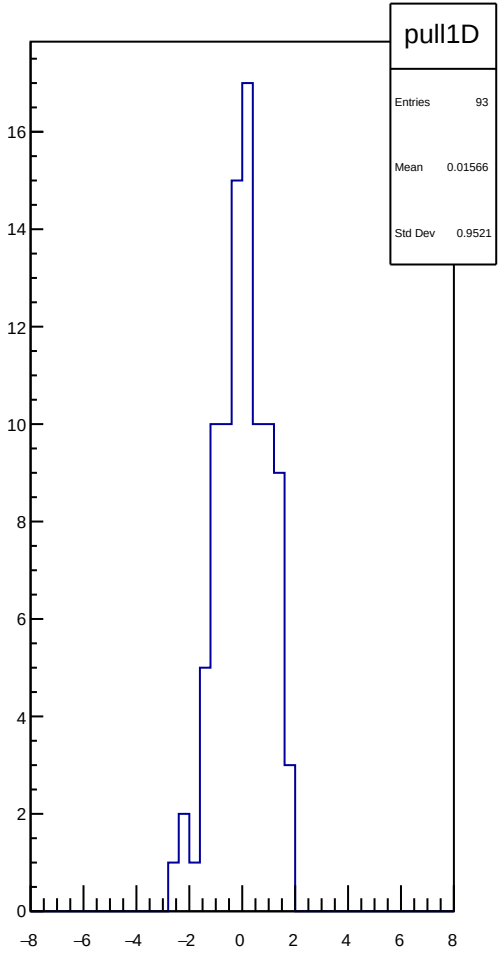

eigen_dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 268.4 / 92
p0 1309 ± 0.9624
1360
1340
1320
1300
1280
1260

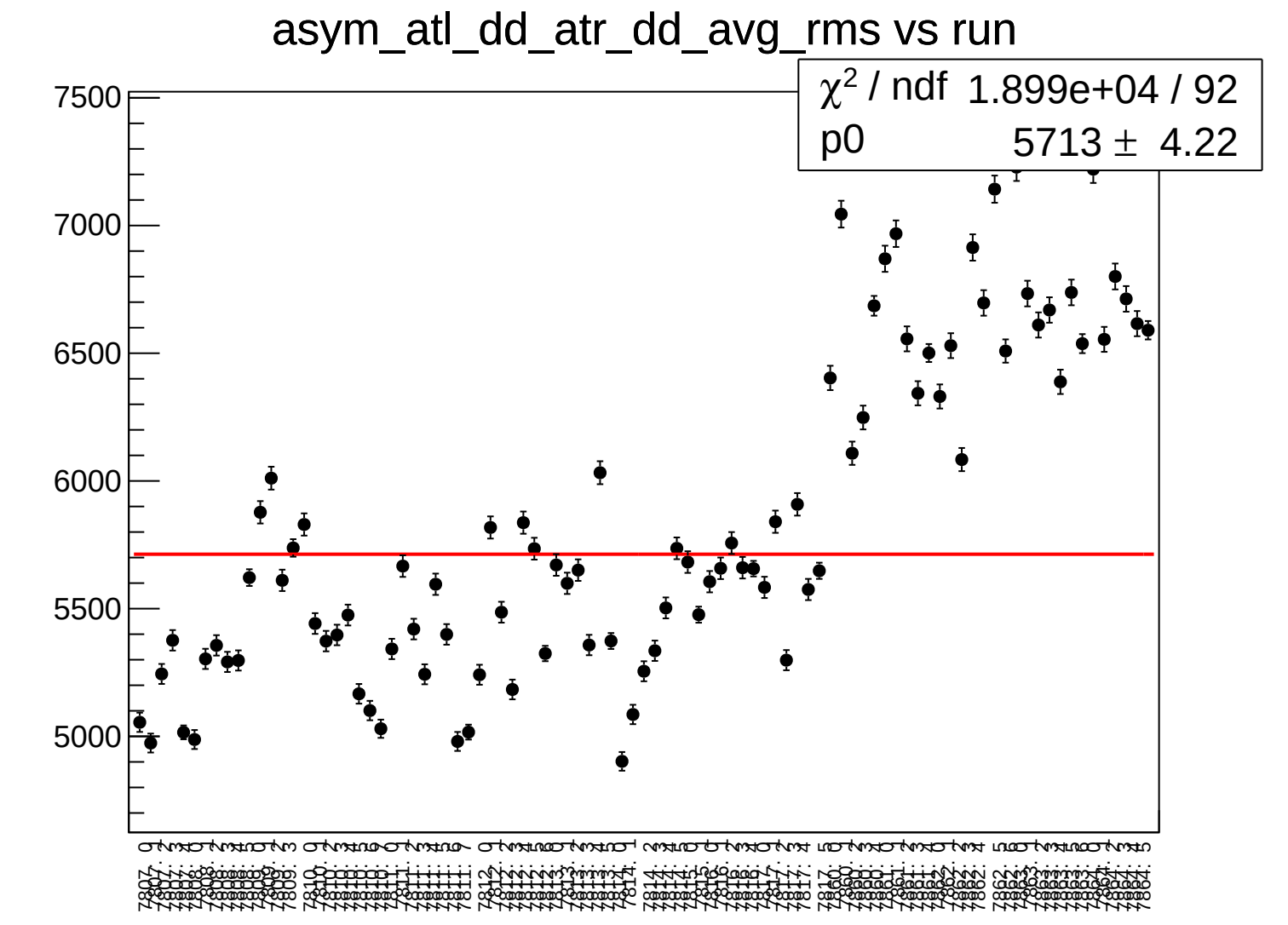

asym_atl_dd_atr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 84.14 / 92
p0 −5697 ± 5836
200
100
0
−100
−200
pull
Entries 93
Mean −41.79
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

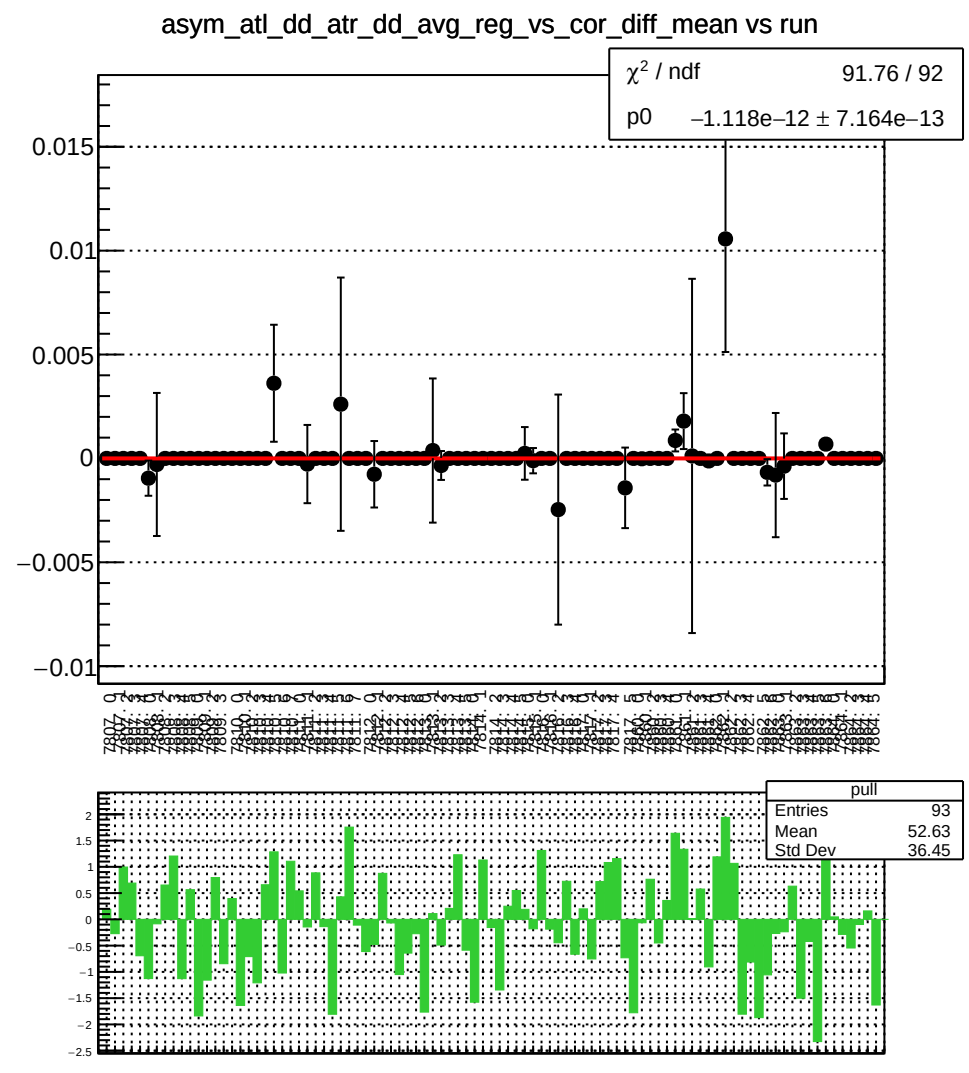

pull1D
Entries 93
Mean −0.01085
Std Dev 0.9511
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

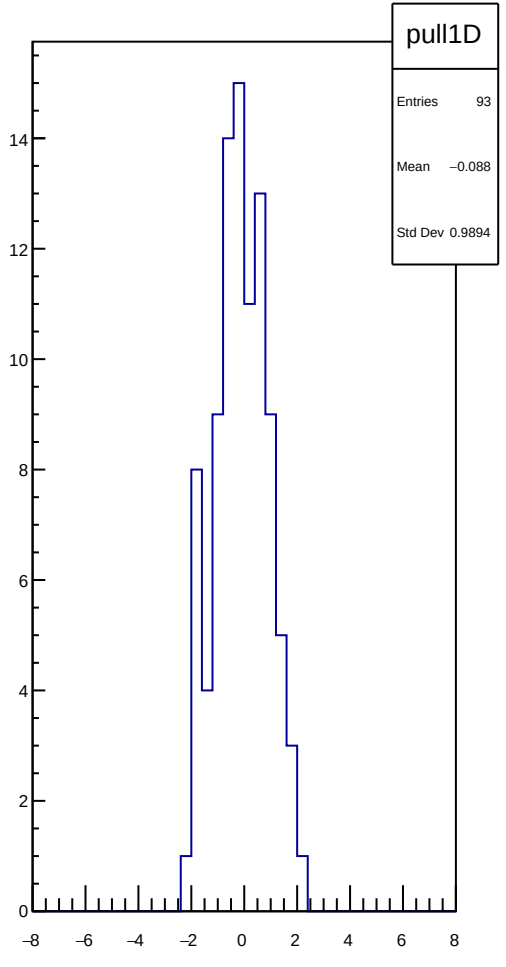

asym_atl_dd_atr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.462e+04 / 92
p0 5578 ± 4.127
7500
7000
6500
6000
5500
5000
4500

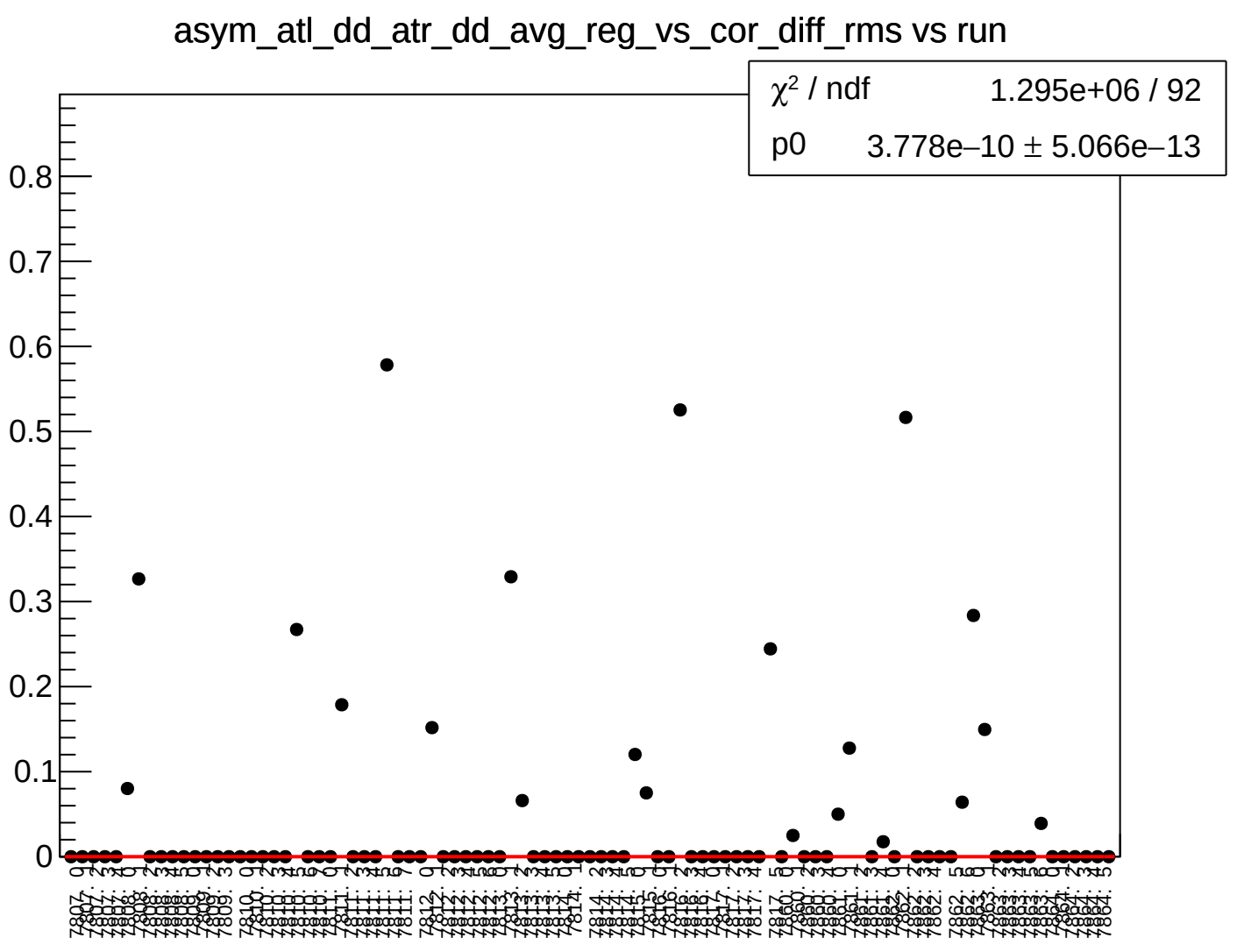

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 84.34 / 92
p0 4327 ± 5968
pull
Entries 93
Mean 21.83
Std Dev 20.93

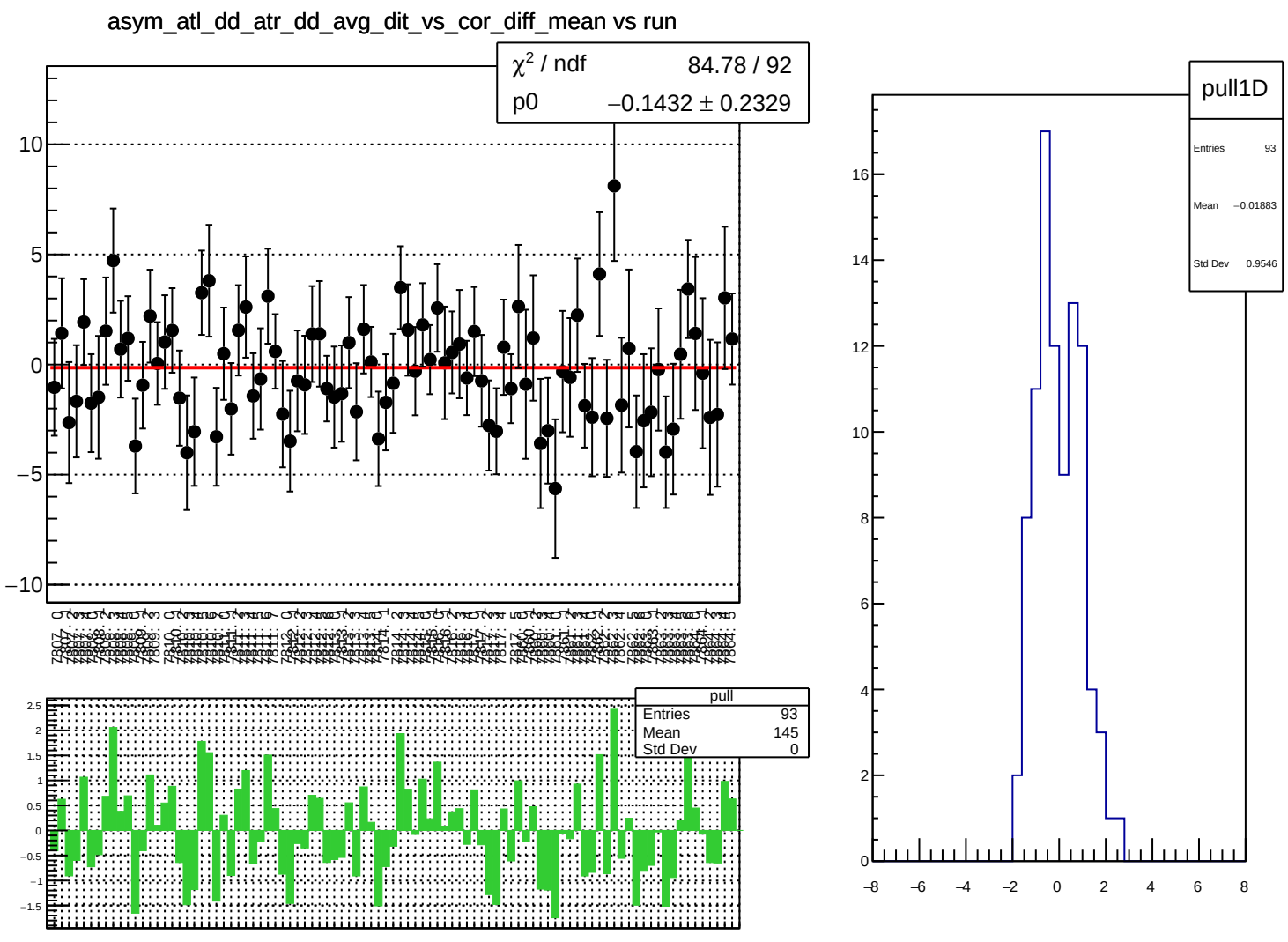

pull1D
Entries 93
Mean 0.01566
Std Dev 0.9521

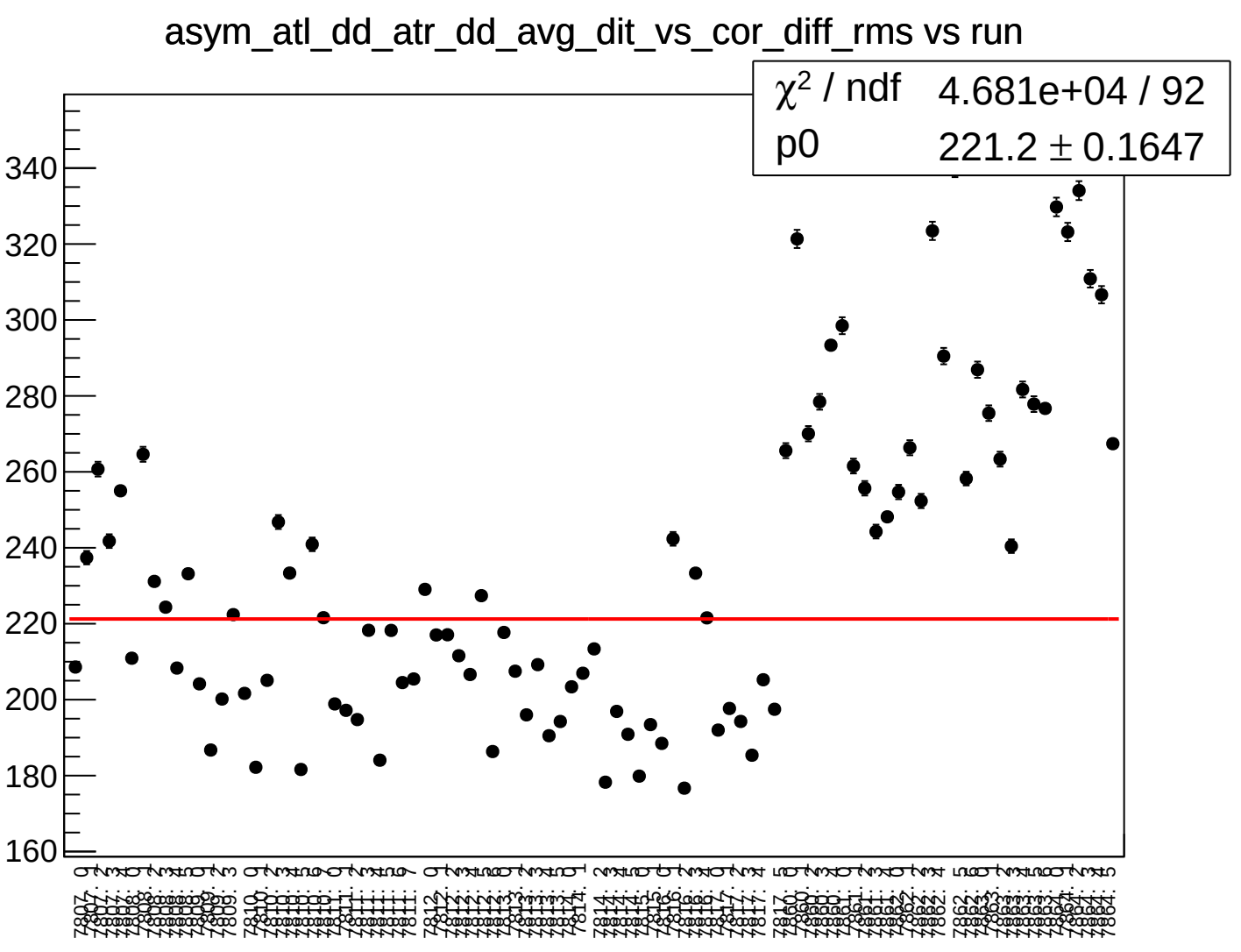

asym_atl_dd_atr_dd_avg_rms vs run
χ^2 / ndf 1.899e+04 / 92
p0 5713 ± 4.22
7500
7000
6500
6000
5500
5000

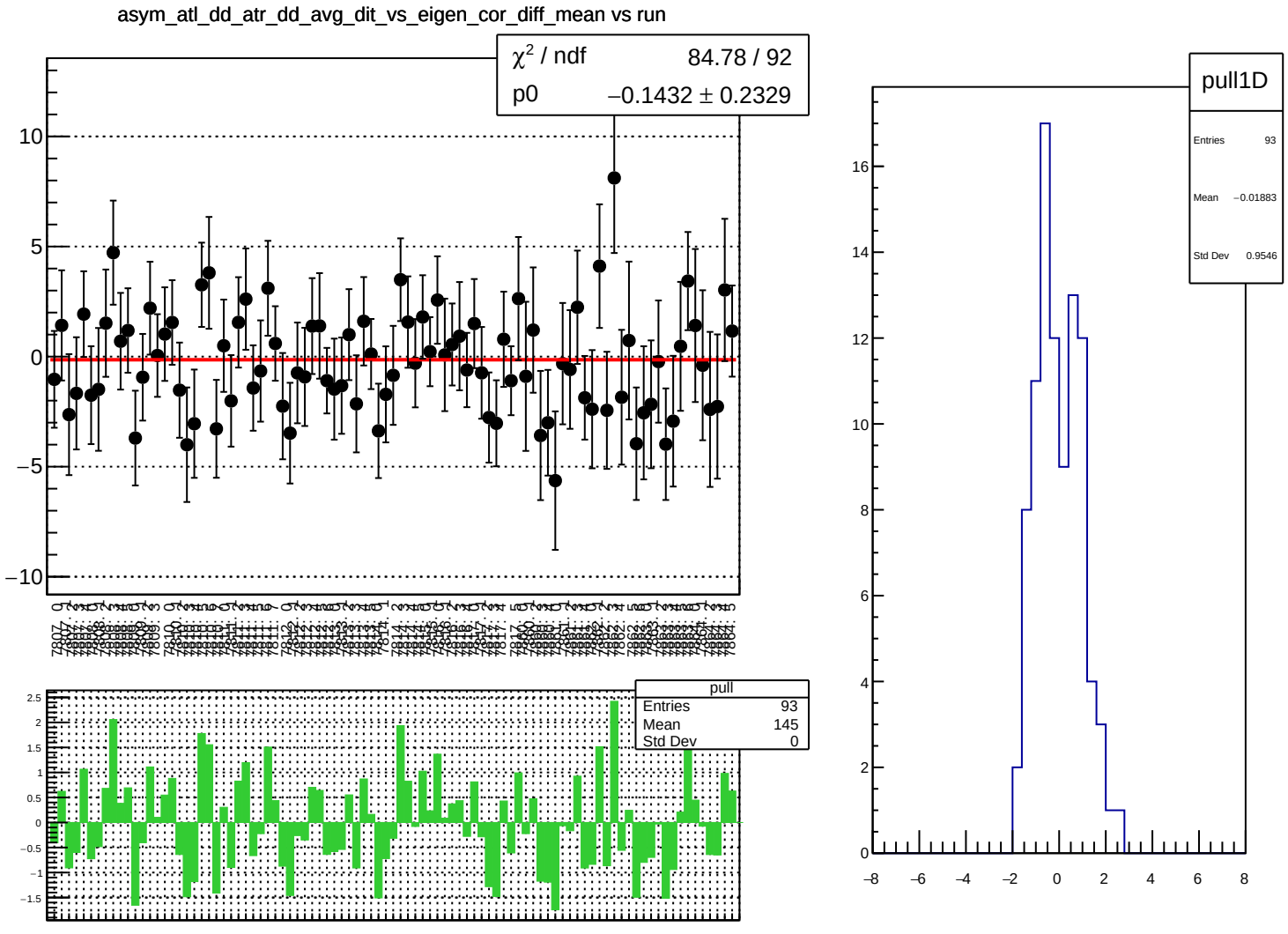

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 91.76 / 92
p0 −1.118e−12 ± 7.164e−13
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 93
Mean 52.63
Std Dev 36.45
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

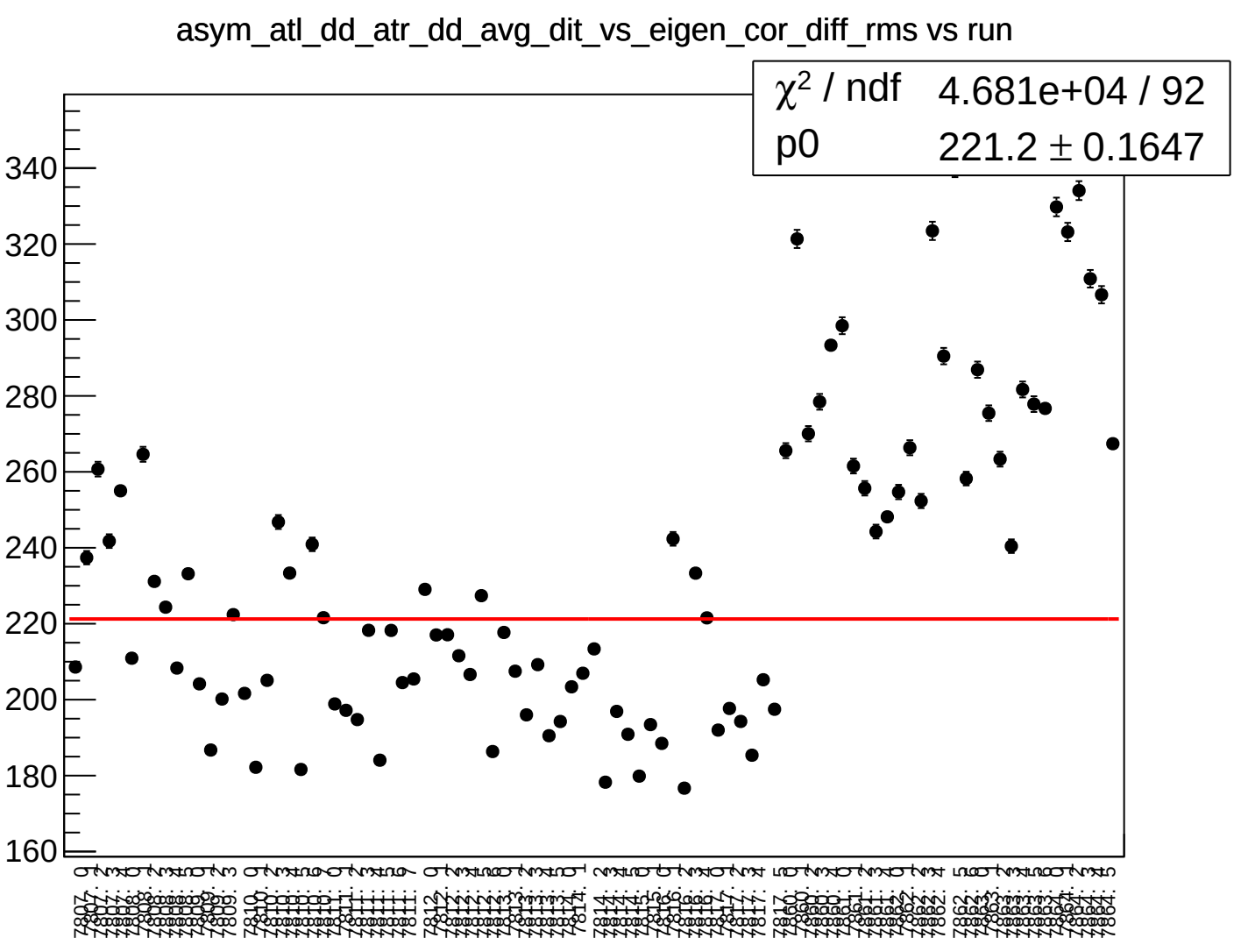

pull1D
Entries 93
Mean −0.088
Std Dev 0.9894
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

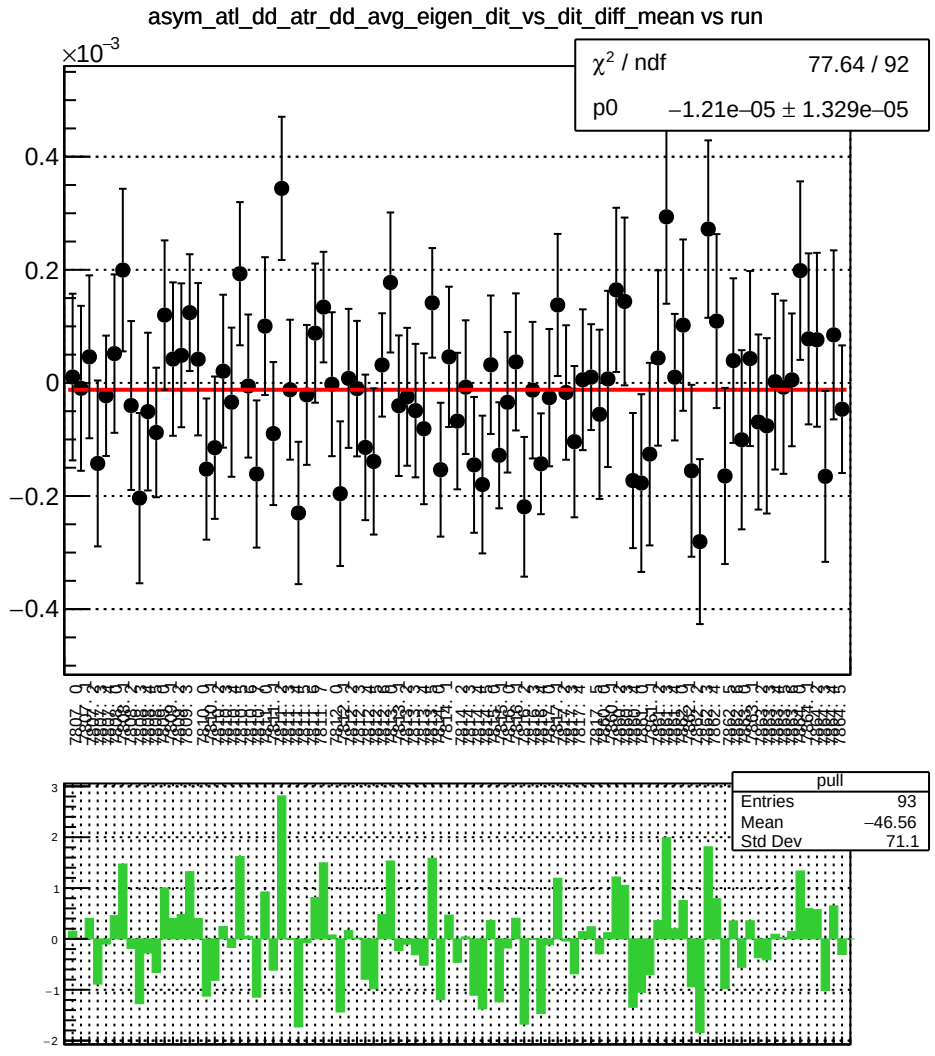

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.295e+06 / 92
p0 3.778e−10 ± 5.066e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

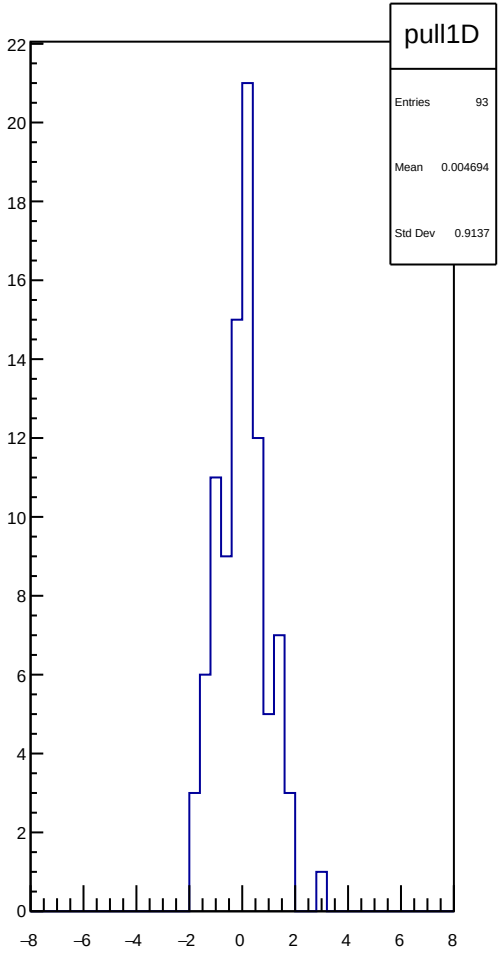

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 84.78 / 92
p0 −0.1432 ± 0.2329
pull
Entries 93
Mean 145
Std Dev 0
pull1D
Entries 93
Mean −0.01883
Std Dev 0.9546

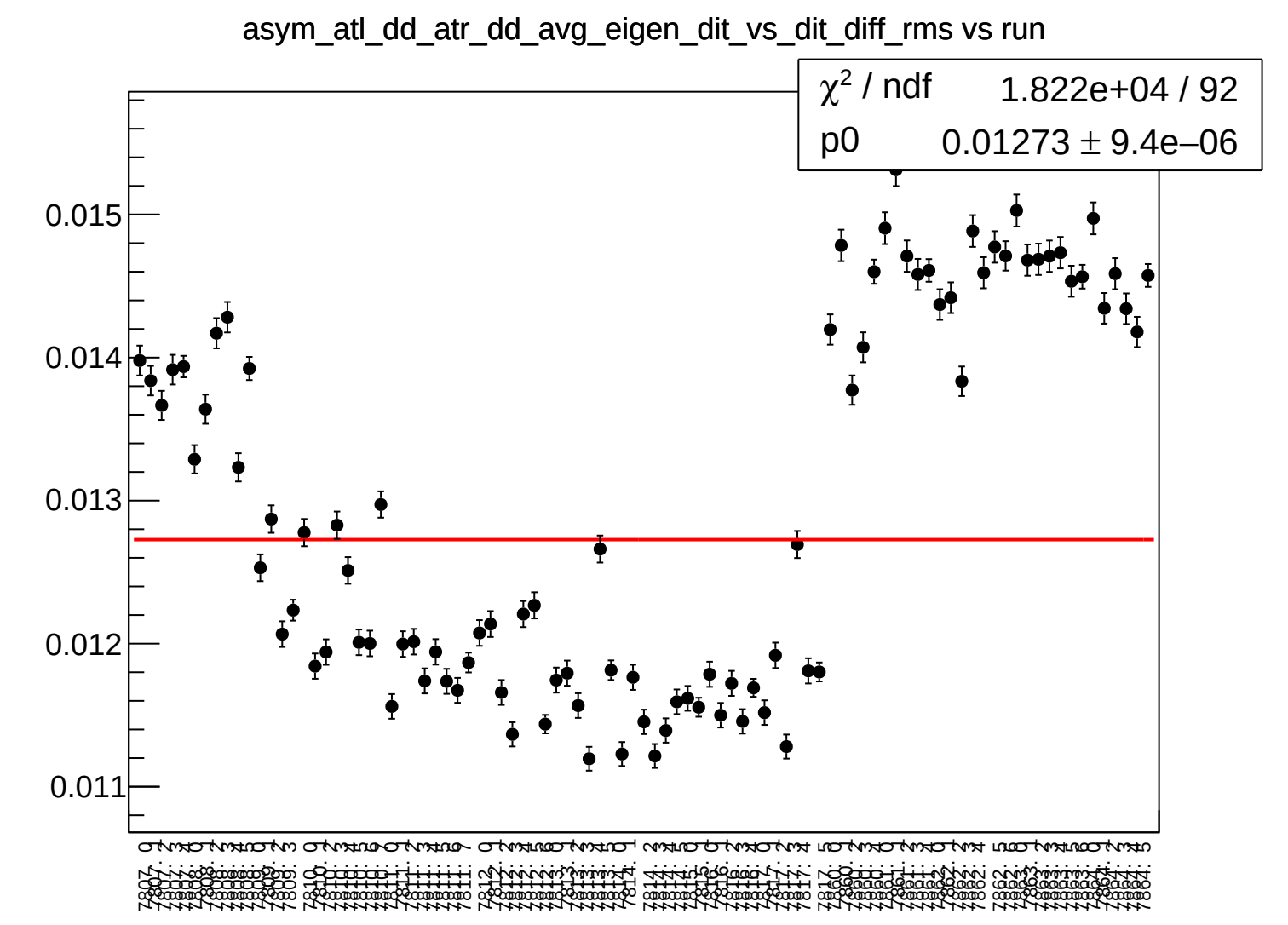

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.681e+04 / 92
p0 221.2 ± 0.1647
340
320
300
280
260
240
220
200
180
160

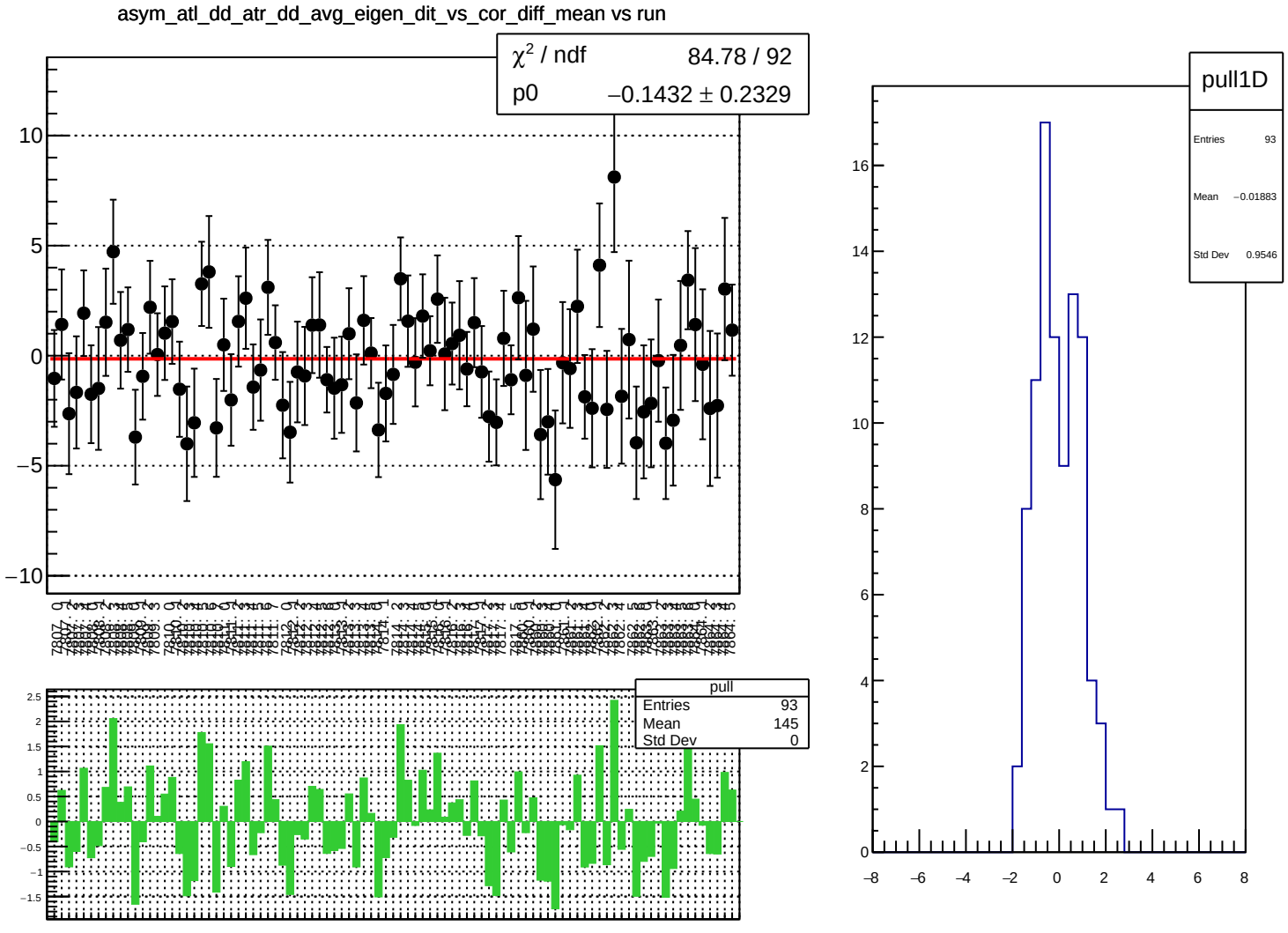

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.78 / 92
p0 −0.1432 ± 0.2329
pull
Entries 93
Mean 145
Std Dev 0
pull1D
Entries 93
Mean −0.01883
Std Dev 0.9546

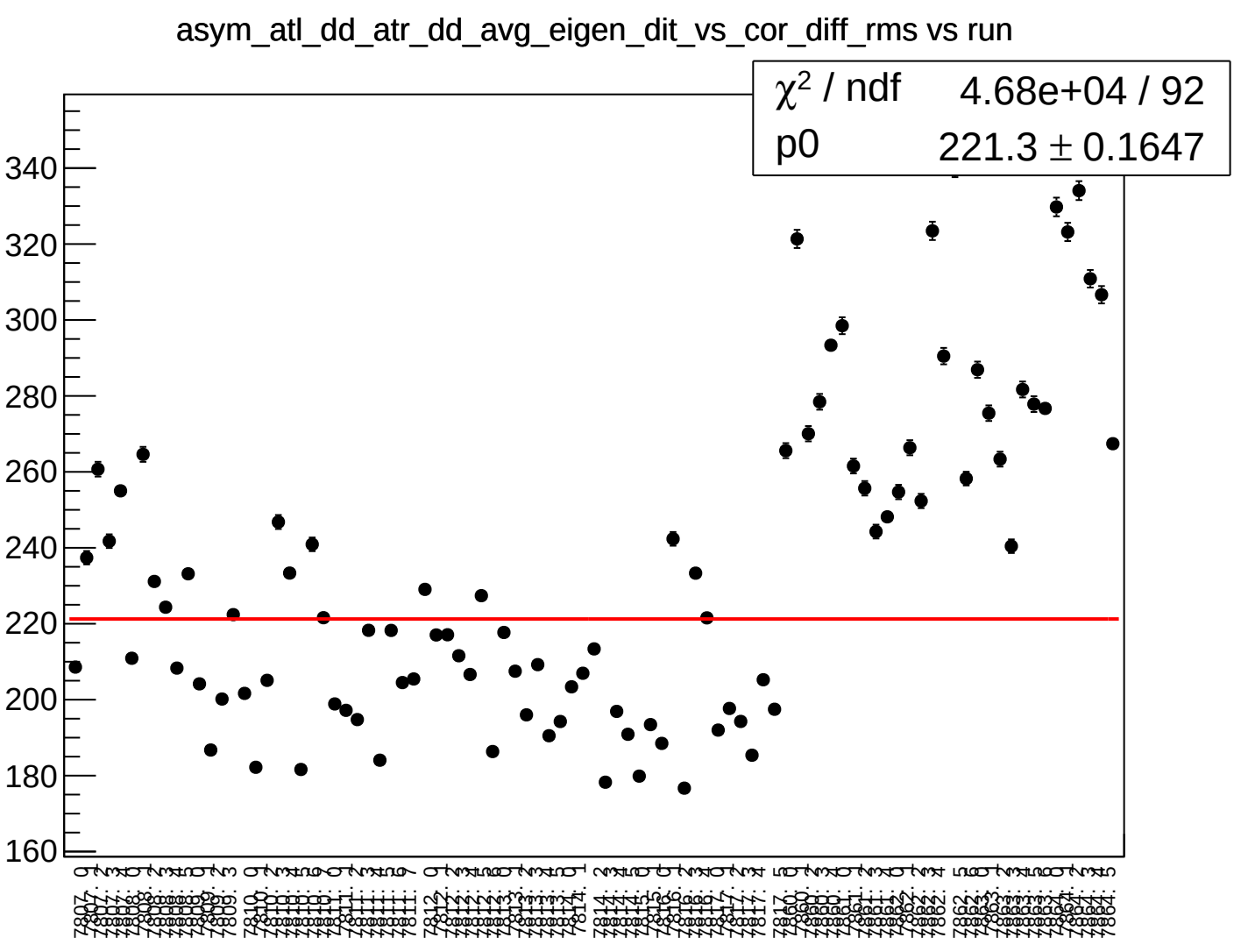

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.681e+04 / 92
p0 221.2 ± 0.1647
340
320
300
280
260
240
220
200
180
160

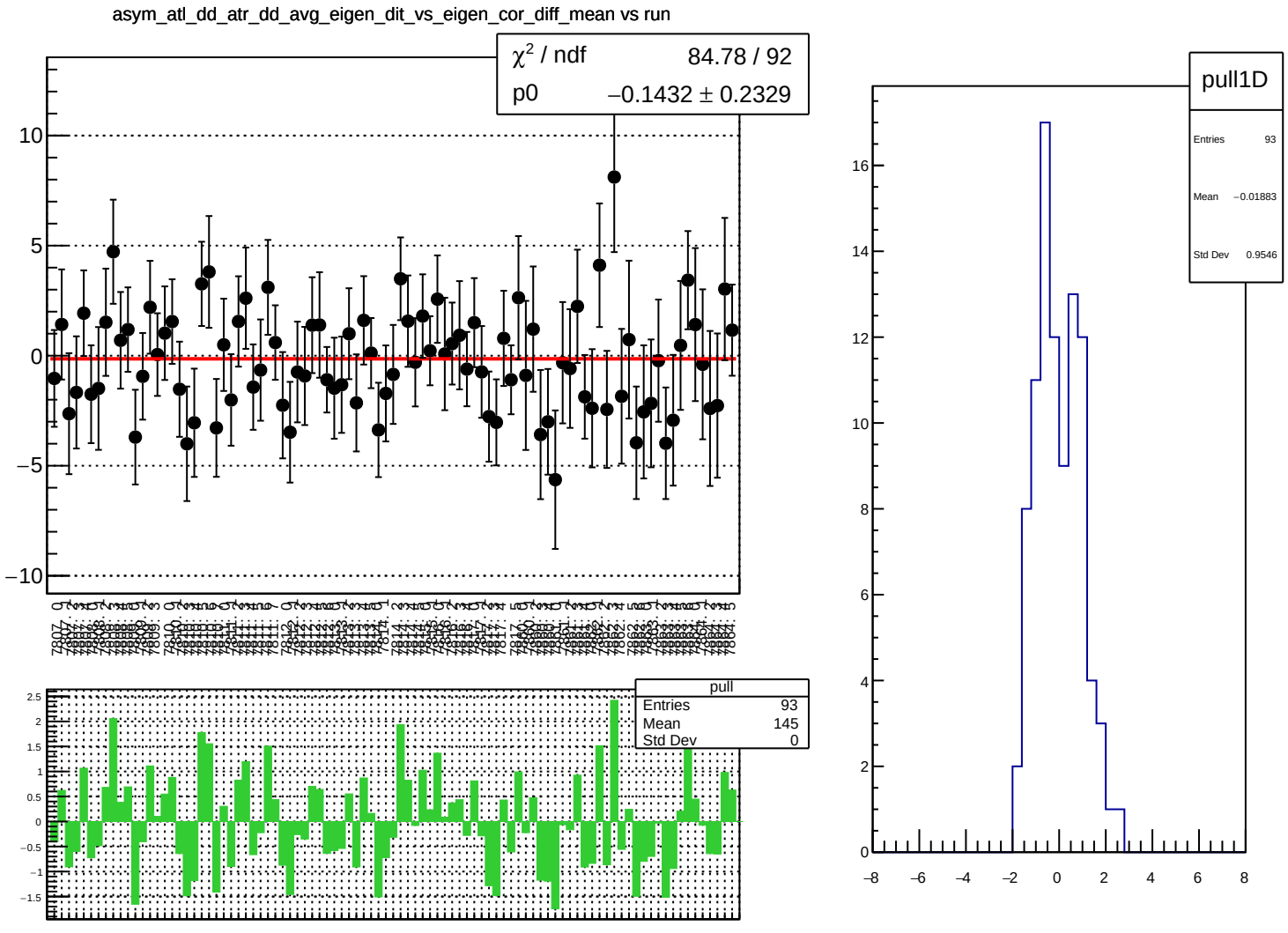

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 77.64 / 92
p0 −1.21e−05 ± 1.329e−05
0.4
0.2
0
−0.2
−0.4
pull
Entries 93
Mean −46.56
Std Dev 71.1
3
2
1
0
−1
−2

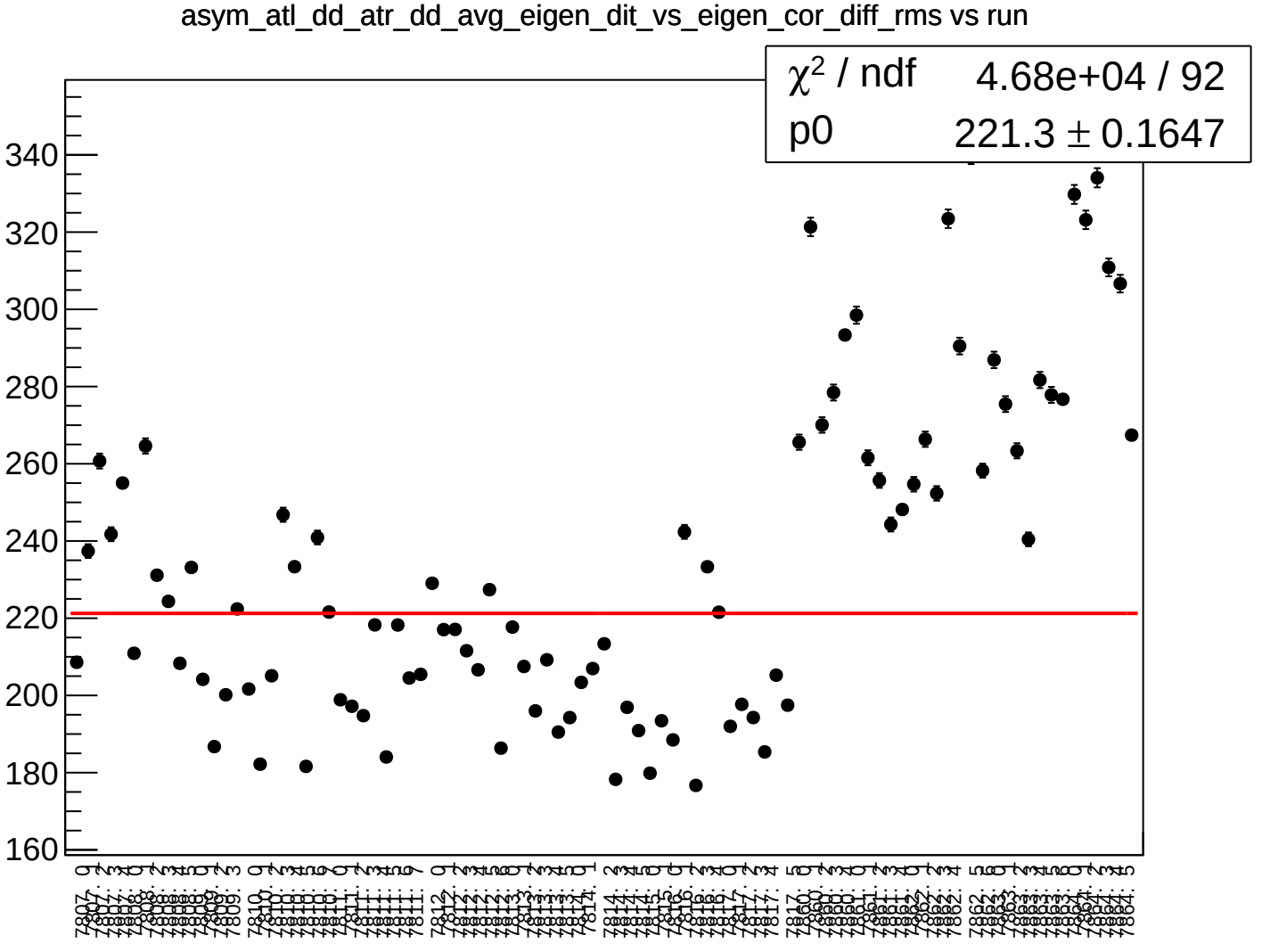

pull1D
Entries 93
Mean 0.004694
Std Dev 0.9137
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

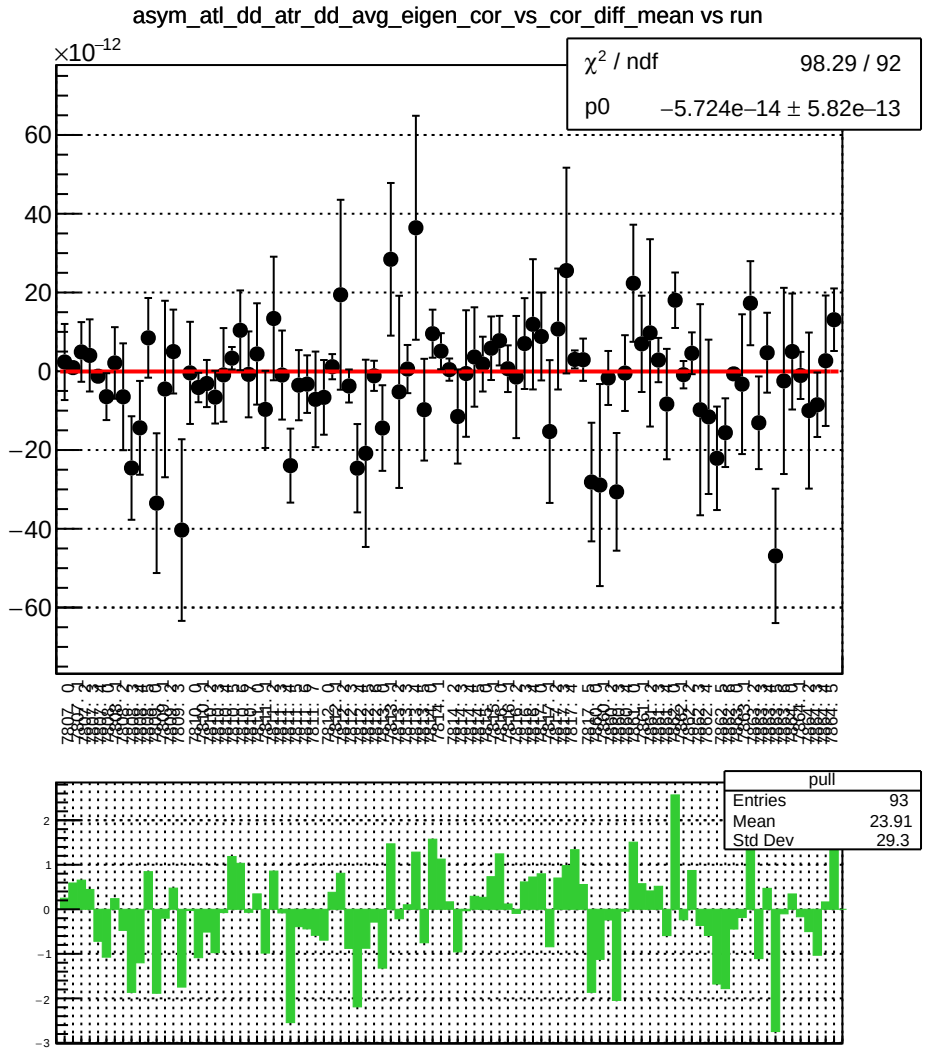

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.822e+04 / 92
p0 0.01273 ± 9.4e−06
0.015
0.014
0.013
0.012
0.011

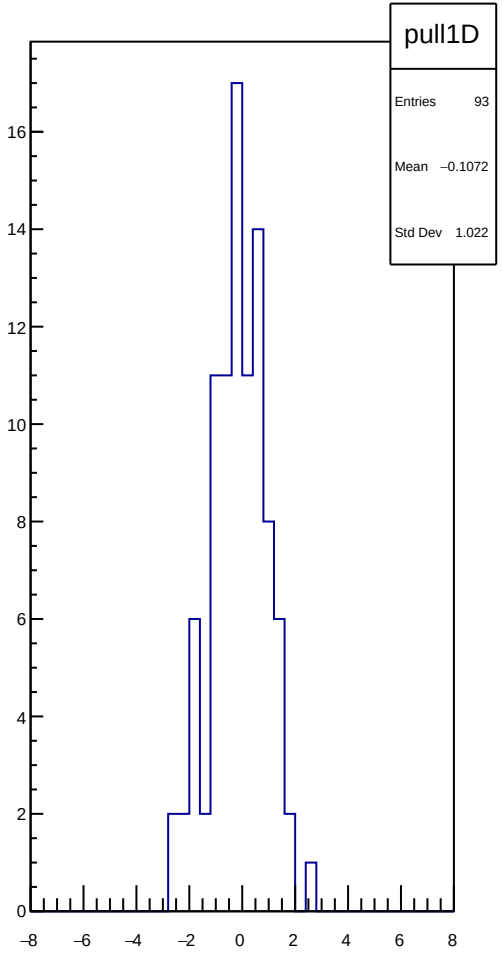

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.78 / 92
p0 −0.1432 ± 0.2329
pull
Entries 93
Mean 145
Std Dev 0
pull1D
Entries 93
Mean −0.01883
Std Dev 0.9546

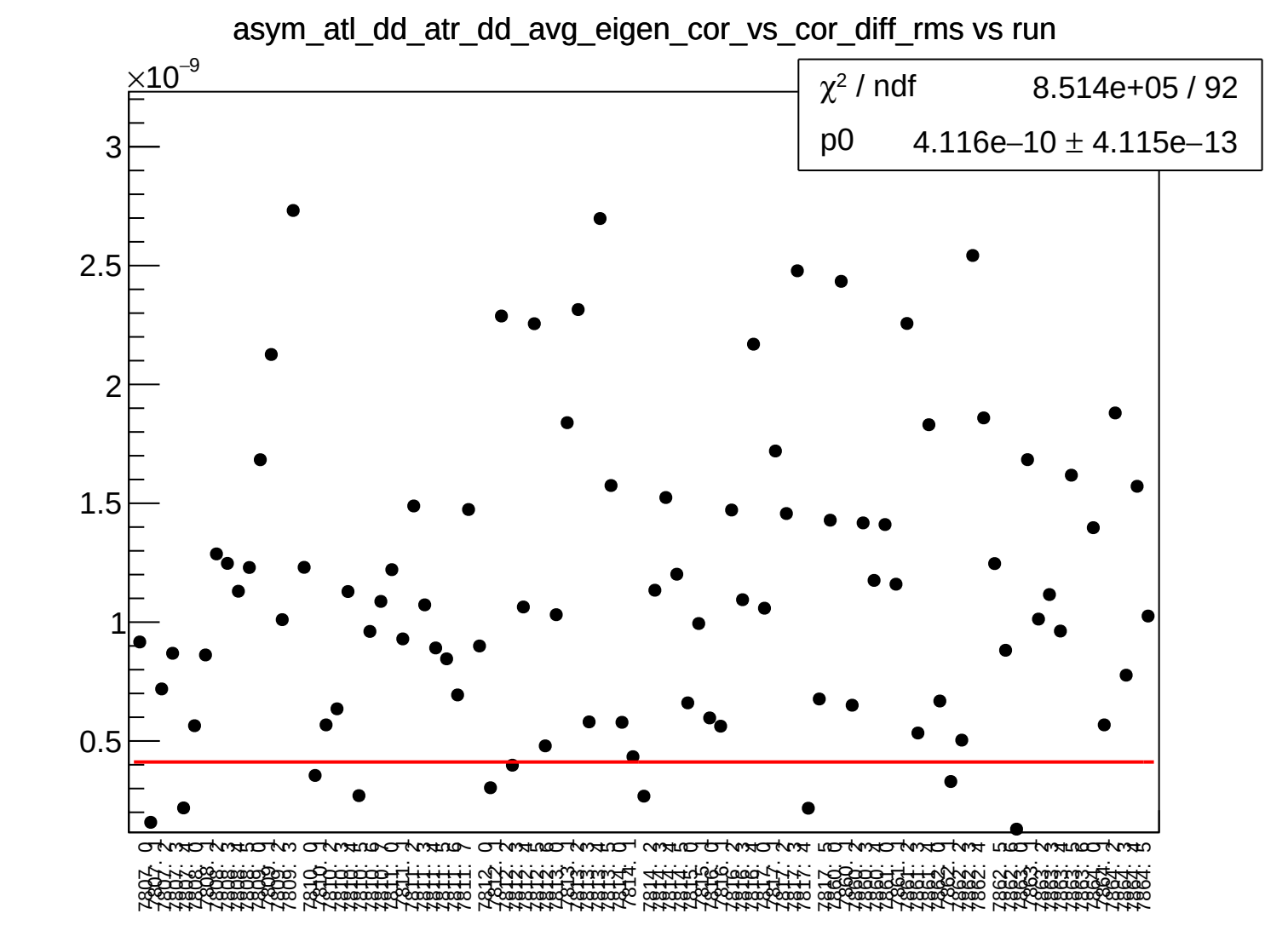

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.68e+04 / 92
p0 221.3 ± 0.1647
340
320
300
280
260
240
220
200
180
160

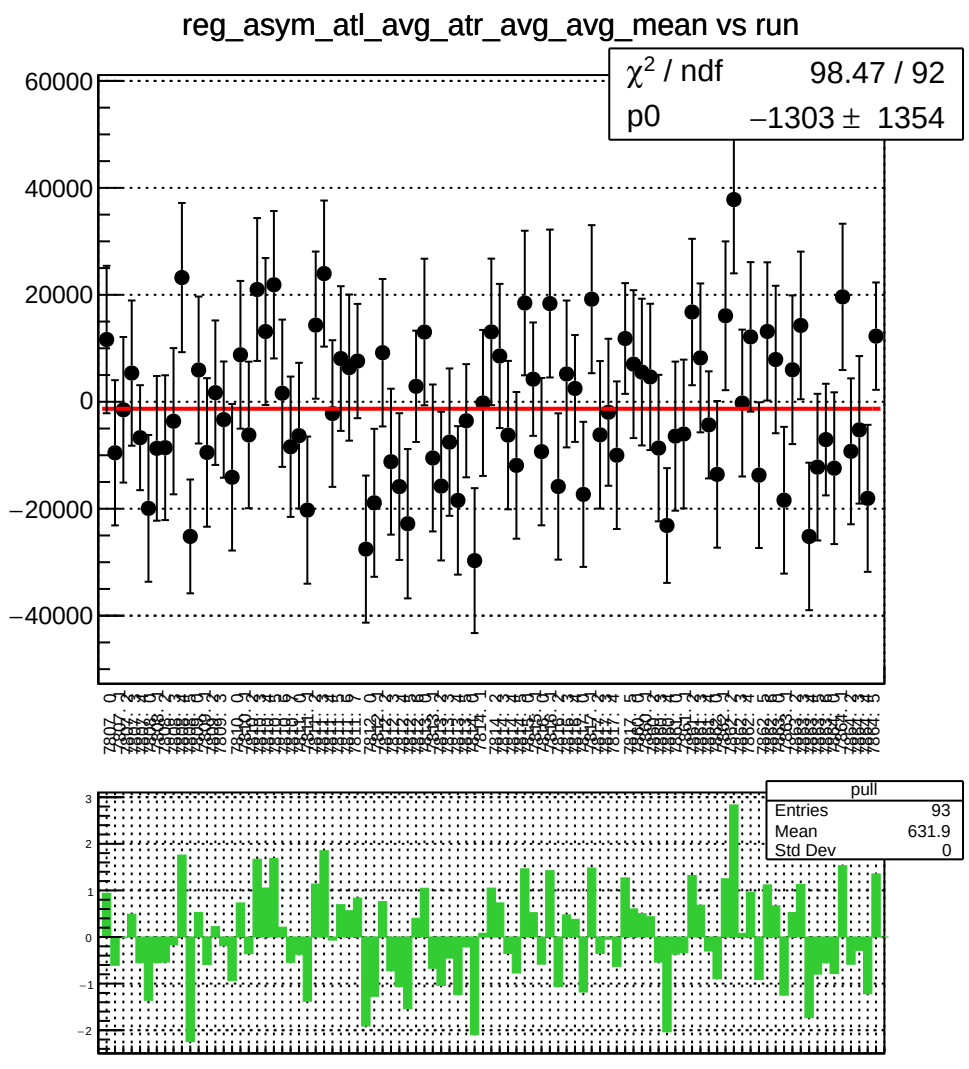

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.78 / 92
p0 −0.1432 ± 0.2329
pull
Entries 93
Mean 145
Std Dev 0
pull1D
Entries 93
Mean −0.01883
Std Dev 0.9546

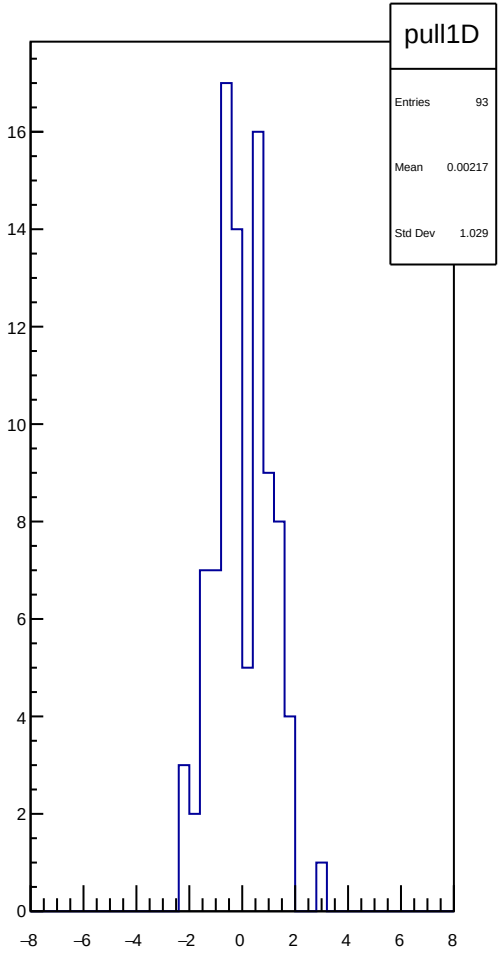

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.68e+04 / 92
p0 221.3 ± 0.1647
340
320
300
280
260
240
220
200
180
160

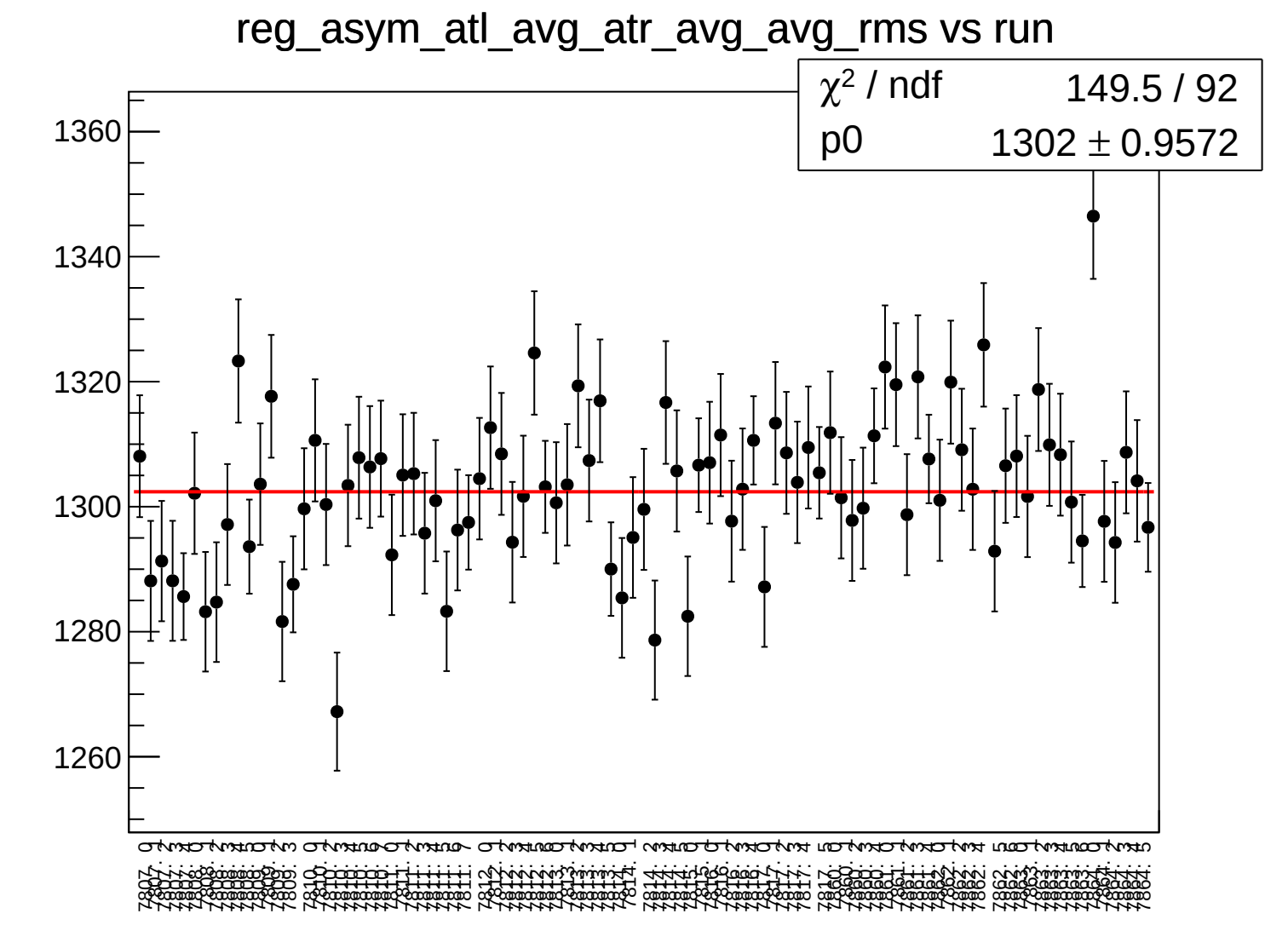

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 98.29 / 92
p0 −5.724e−14 ± 5.82e−13
pull
Entries 93
Mean 23.91
Std Dev 29.3

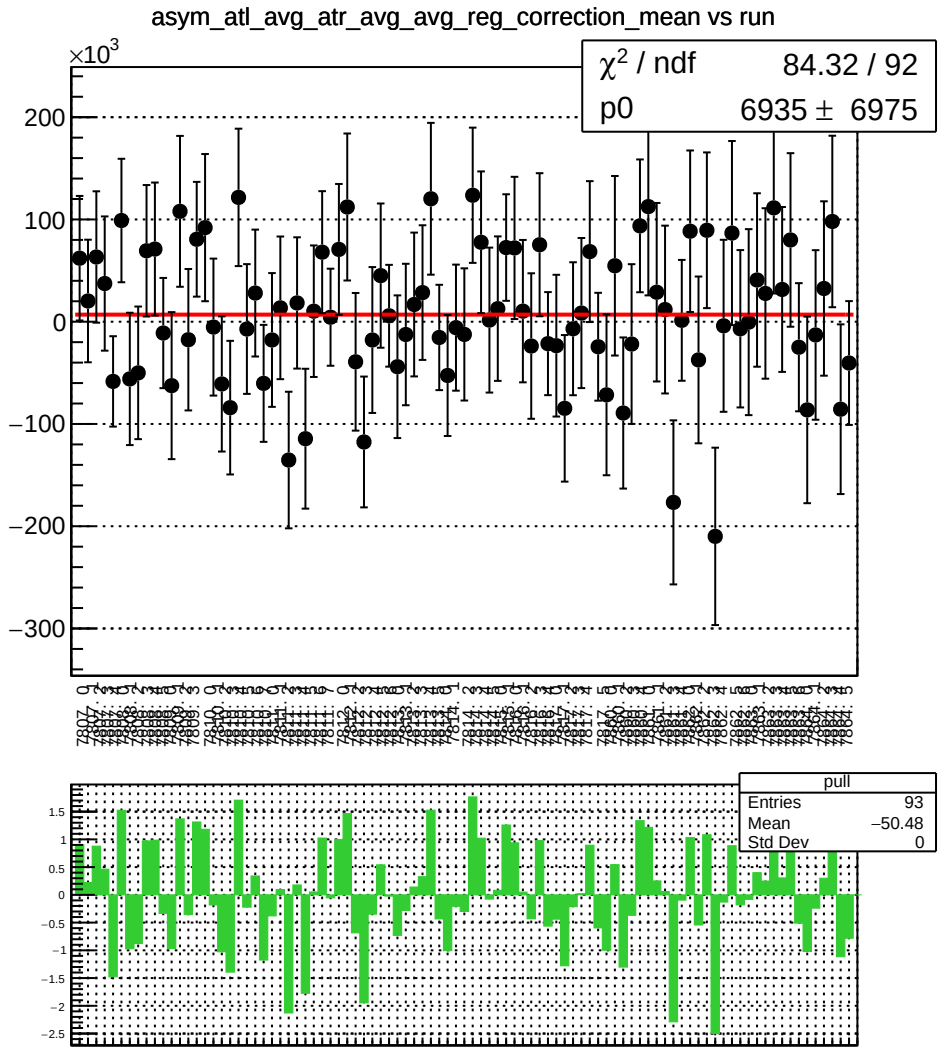

pull1D
Entries 93
Mean −0.1072
Std Dev 1.022

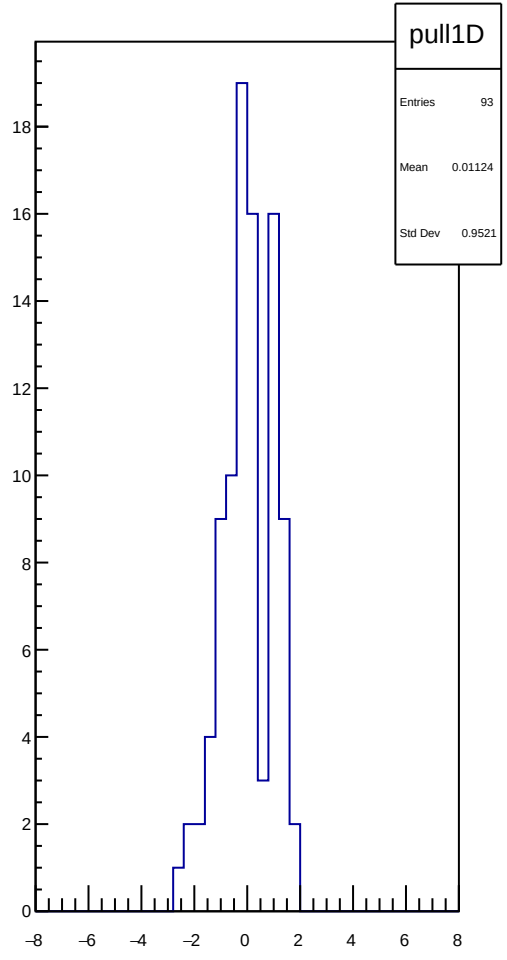

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.514e+05 / 92
p0 4.116e−10 ± 4.115e−13
3
2.5
2
1.5
1
0.5

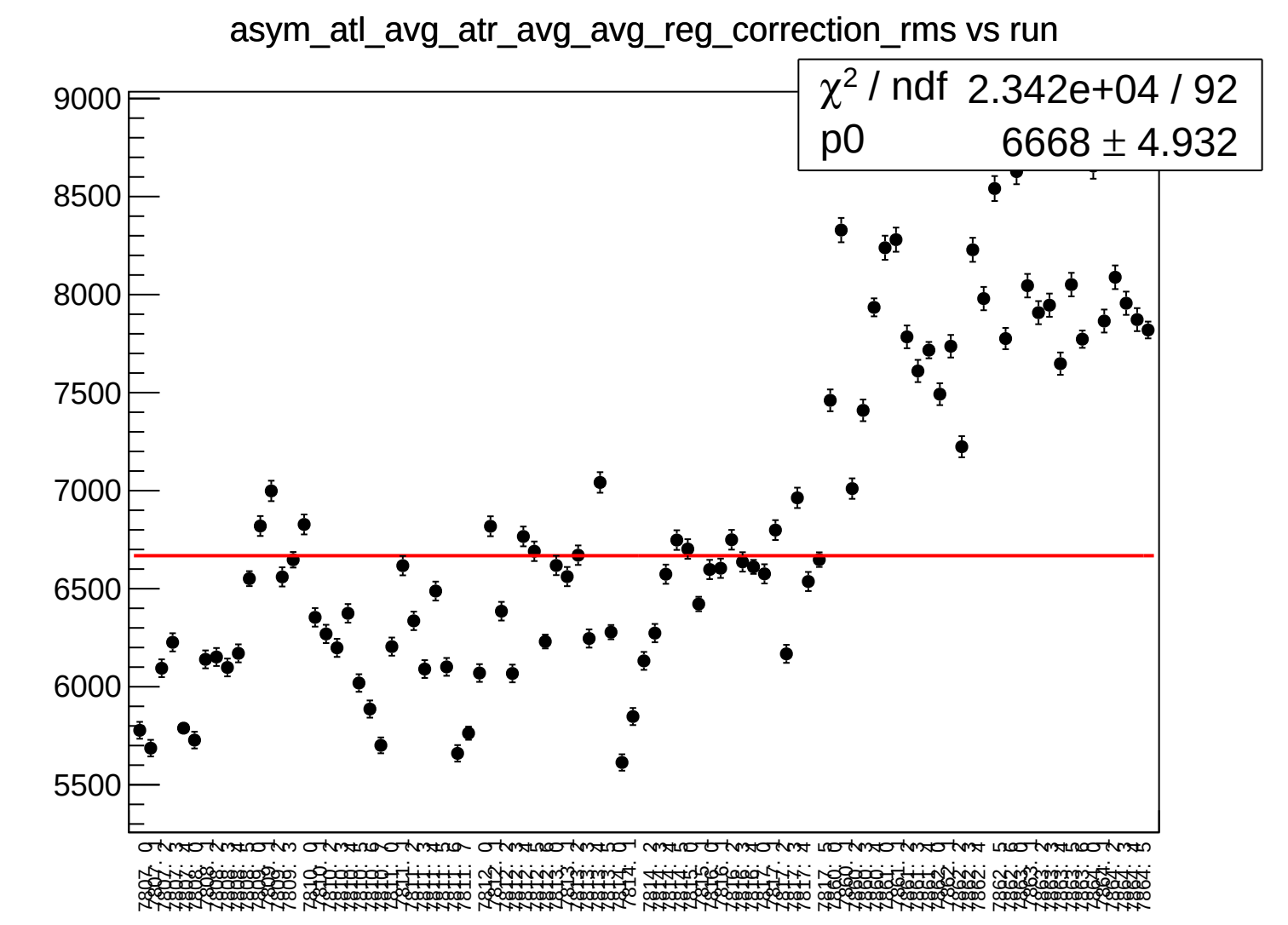

reg_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 98.47 / 92
p0 −1303 ± 1354
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 631.9
Std Dev 0
3
2
1
0
−1
−2

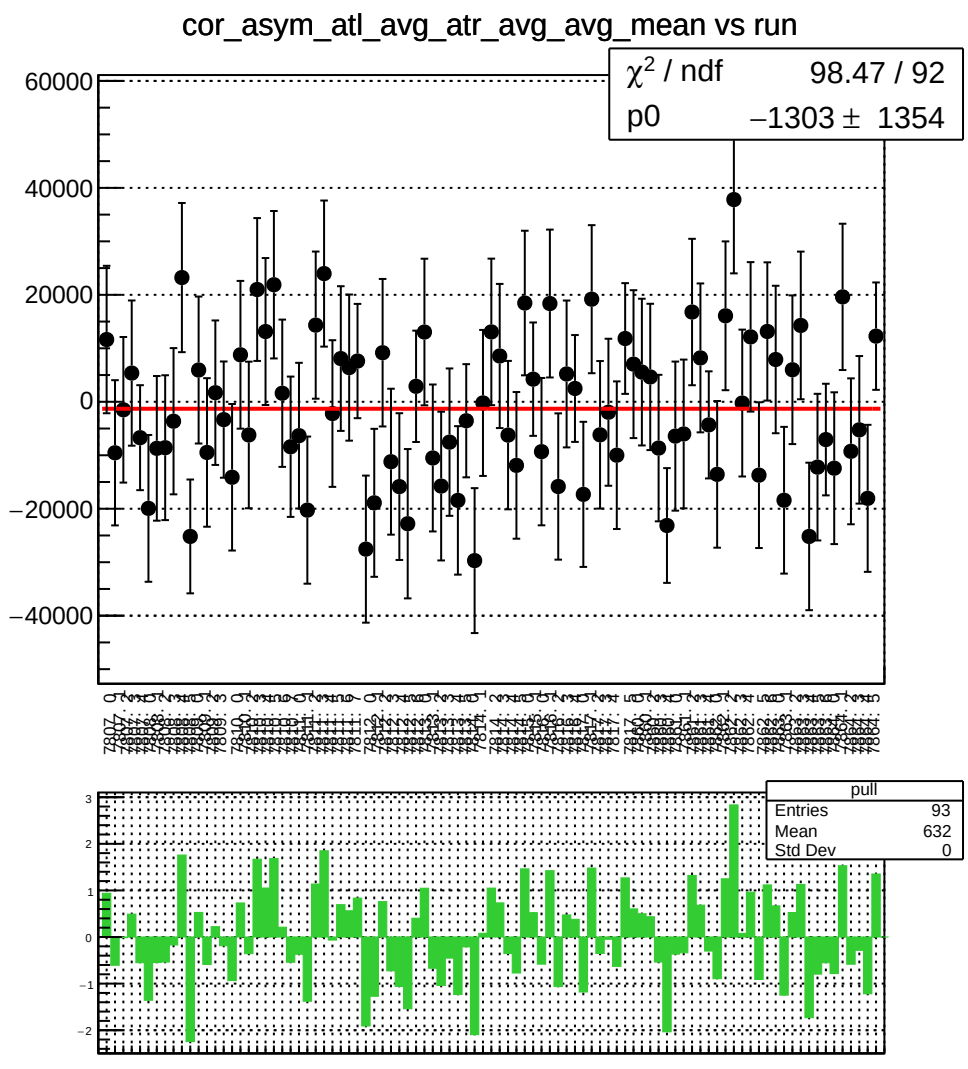

pull1D
Entries 93
Mean 0.00217
Std Dev 1.029
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

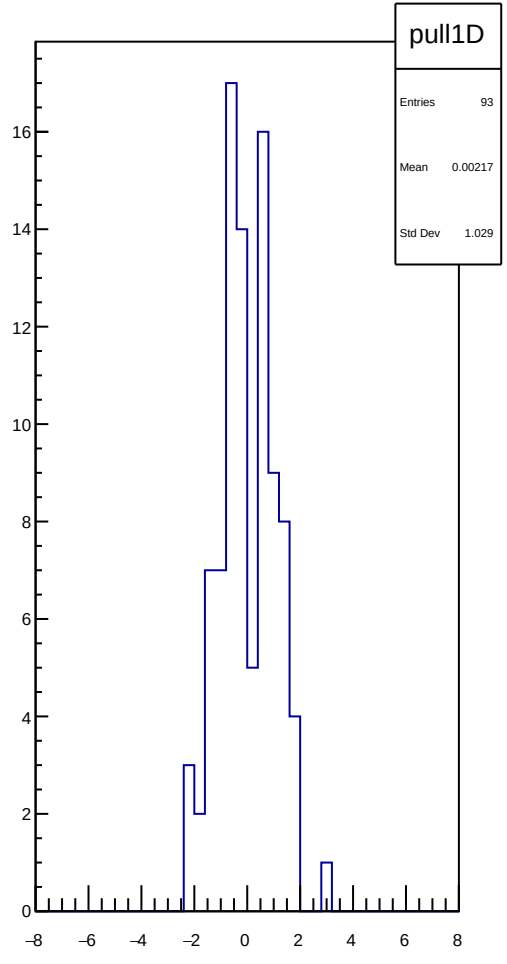

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 149.5 / 92
p0 1302 ± 0.9572
1360
1340
1320
1300
1280
1260

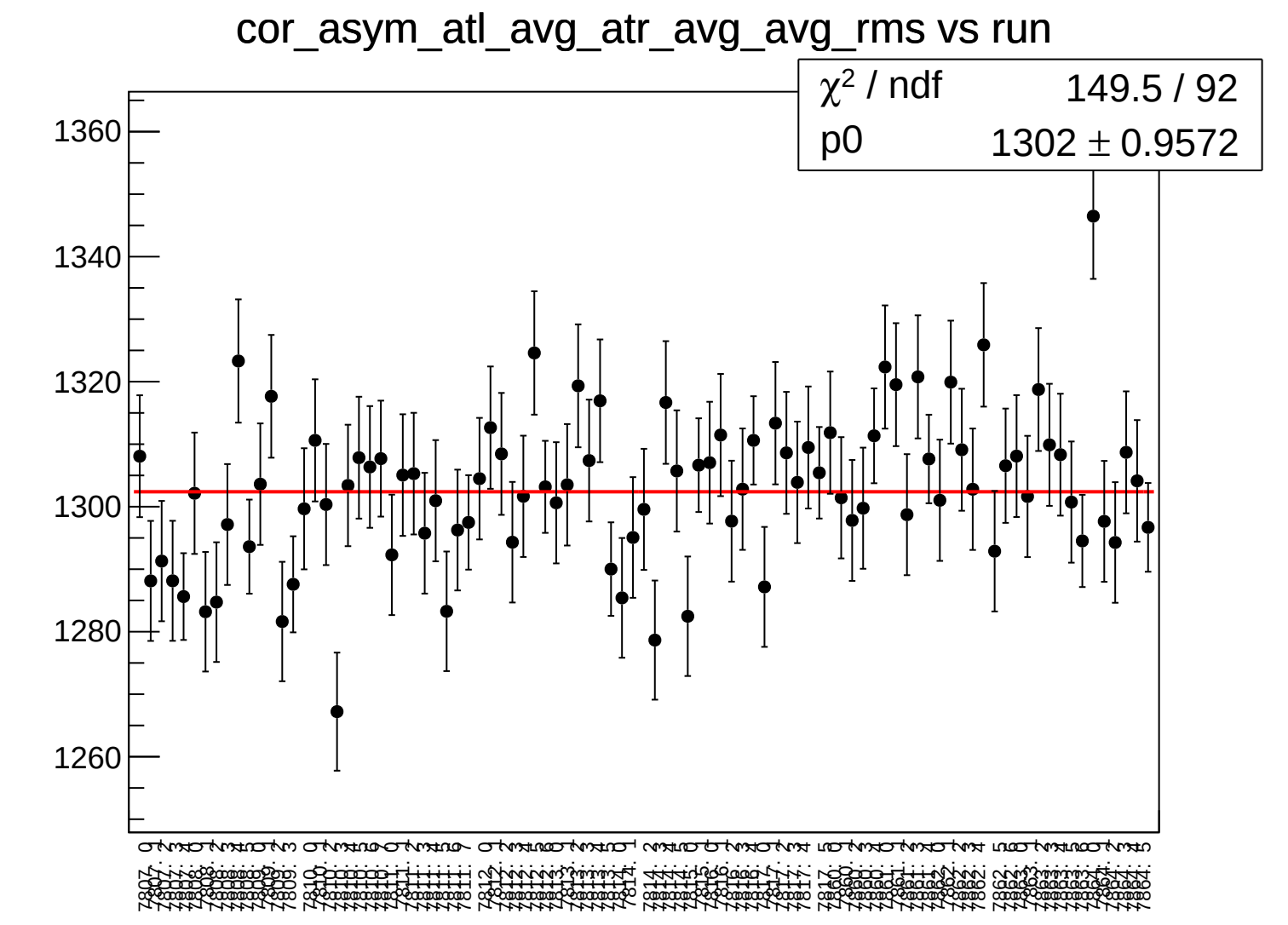

asym_atl_avg_atr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 84.32 / 92
p0 6935 ± 6975
200
100
0
−100
−200
−300
pull
Entries 93
Mean −50.48
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

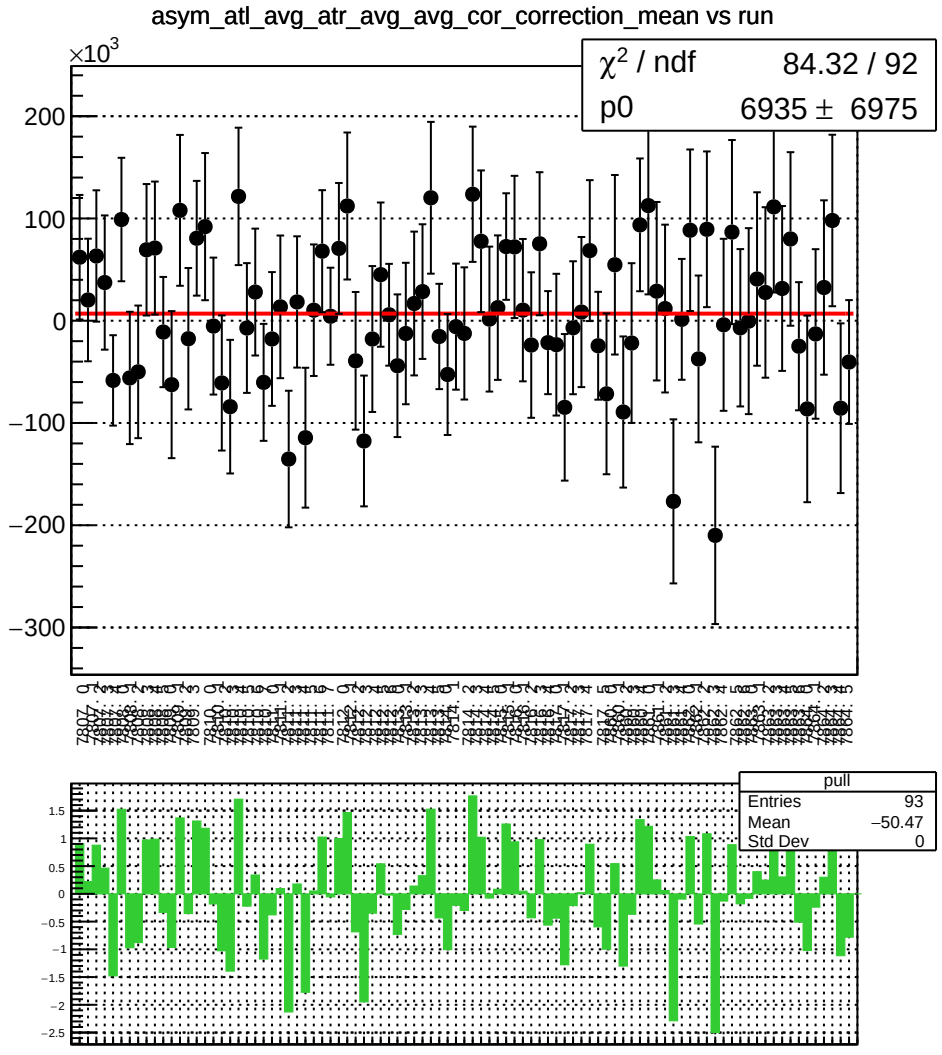

pull1D
Entries 93
Mean 0.01124
Std Dev 0.9521
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

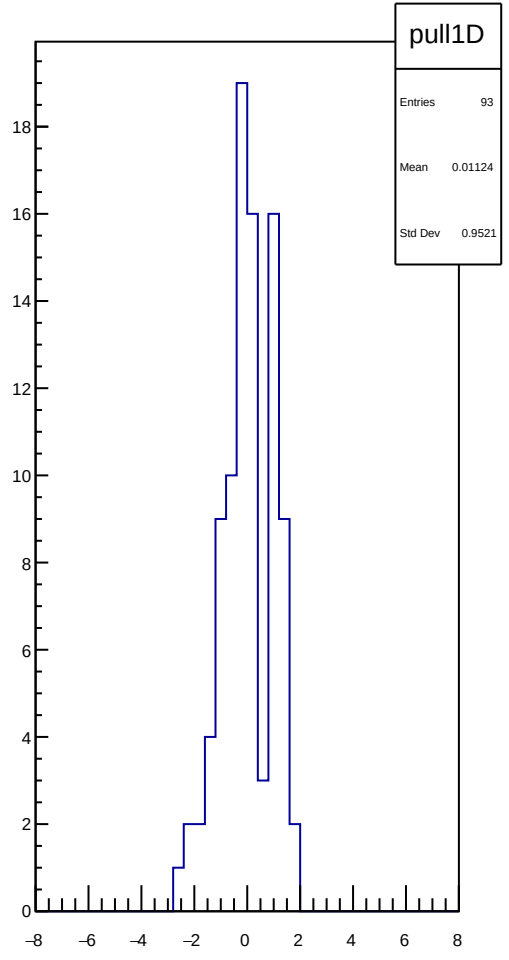

asym_atl_avg_atr_avg_avg_reg_correction_rms vs run
χ² / ndf 2.342e+04 / 92
p0 6668 ± 4.932
9000
8500
8000
7500
7000
6500
6000
5500

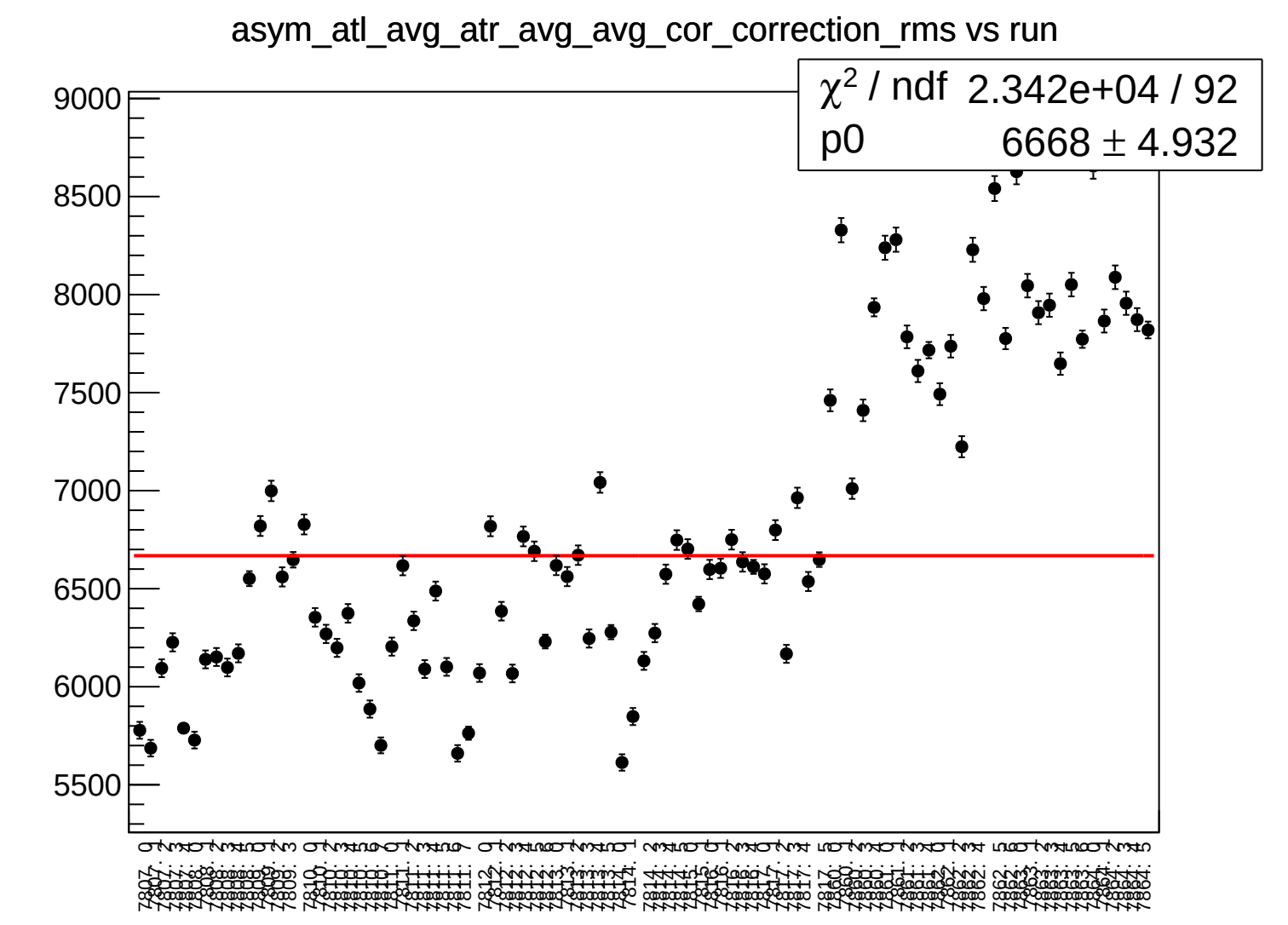

cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 98.47 / 92
p0 −1303 ± 1354
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 632
Std Dev 0
3
2
1
0
−1
−2

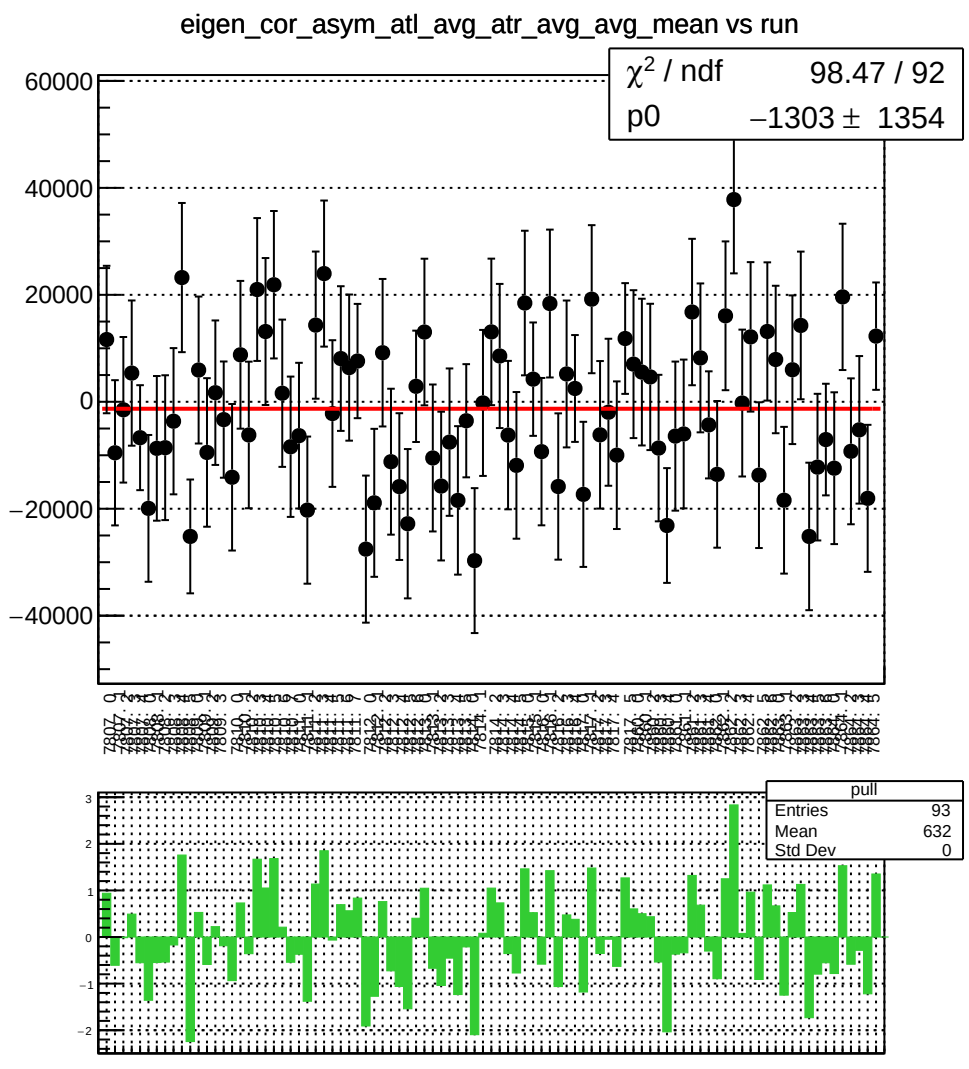

pull1D
Entries 93
Mean 0.00217
Std Dev 1.029
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

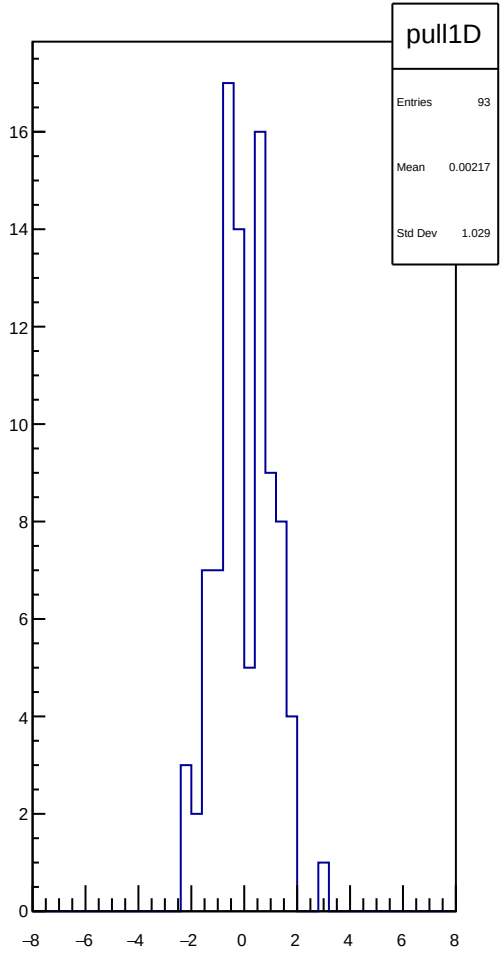

cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 149.5 / 92
p0 1302 ± 0.9572
1360
1340
1320
1300
1280
1260

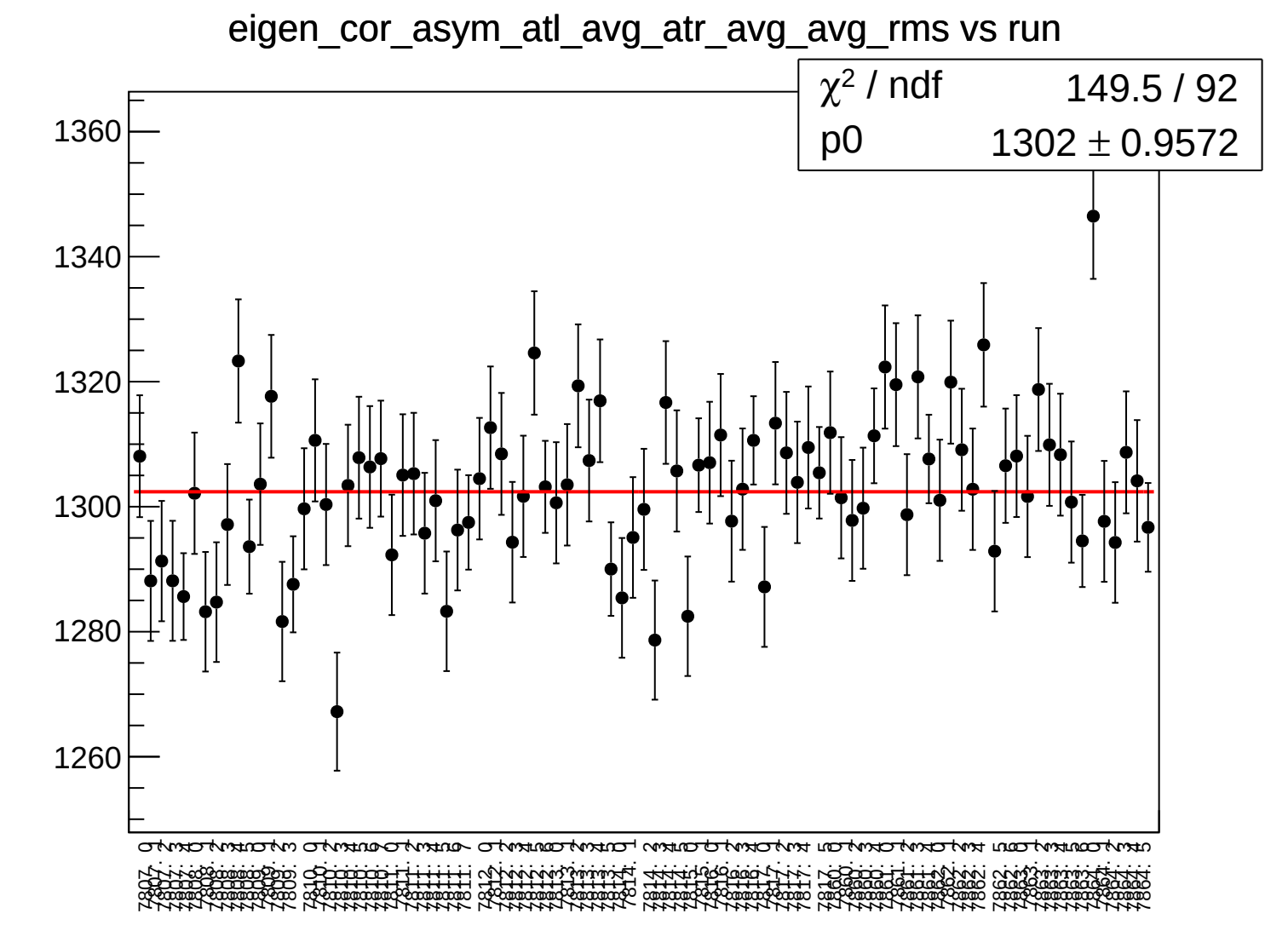

asym_atl_avg_atr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 84.32 / 92
p0 6935 ± 6975
200
100
0
−100
−200
−300
pull
Entries 93
Mean −50.47
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

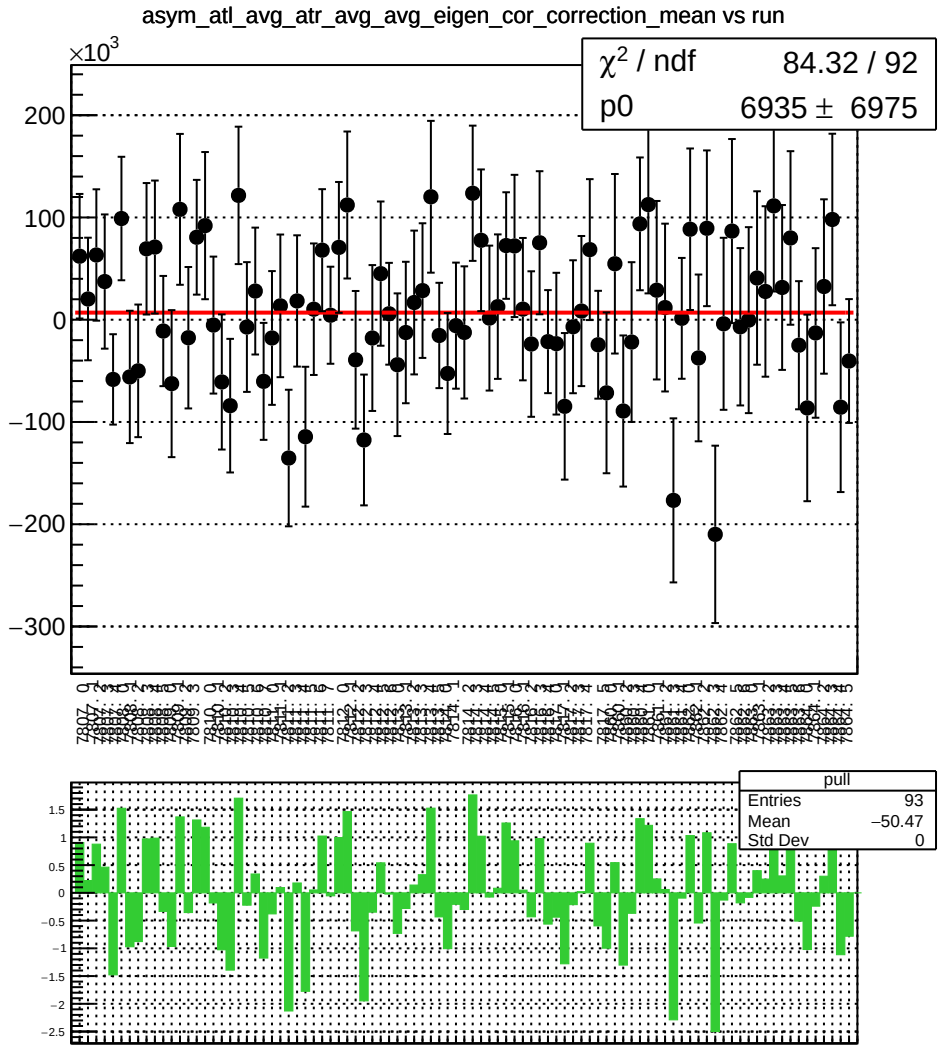

pull1D
Entries 93
Mean 0.01124
Std Dev 0.9521
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

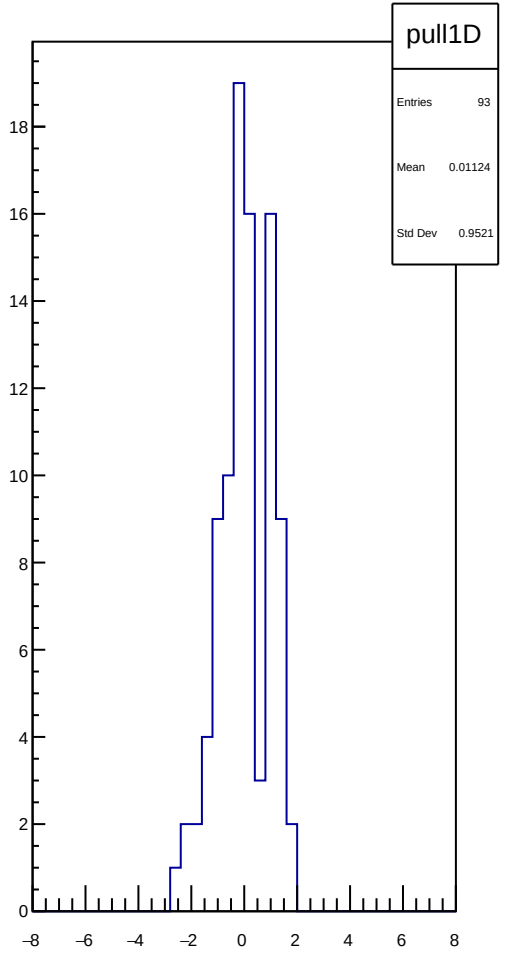

asym_atl_avg_atr_avg_avg_cor_correction_rms vs run
χ² / ndf 2.342e+04 / 92
p0 6668 ± 4.932
9000
8500
8000
7500
7000
6500
6000
5500

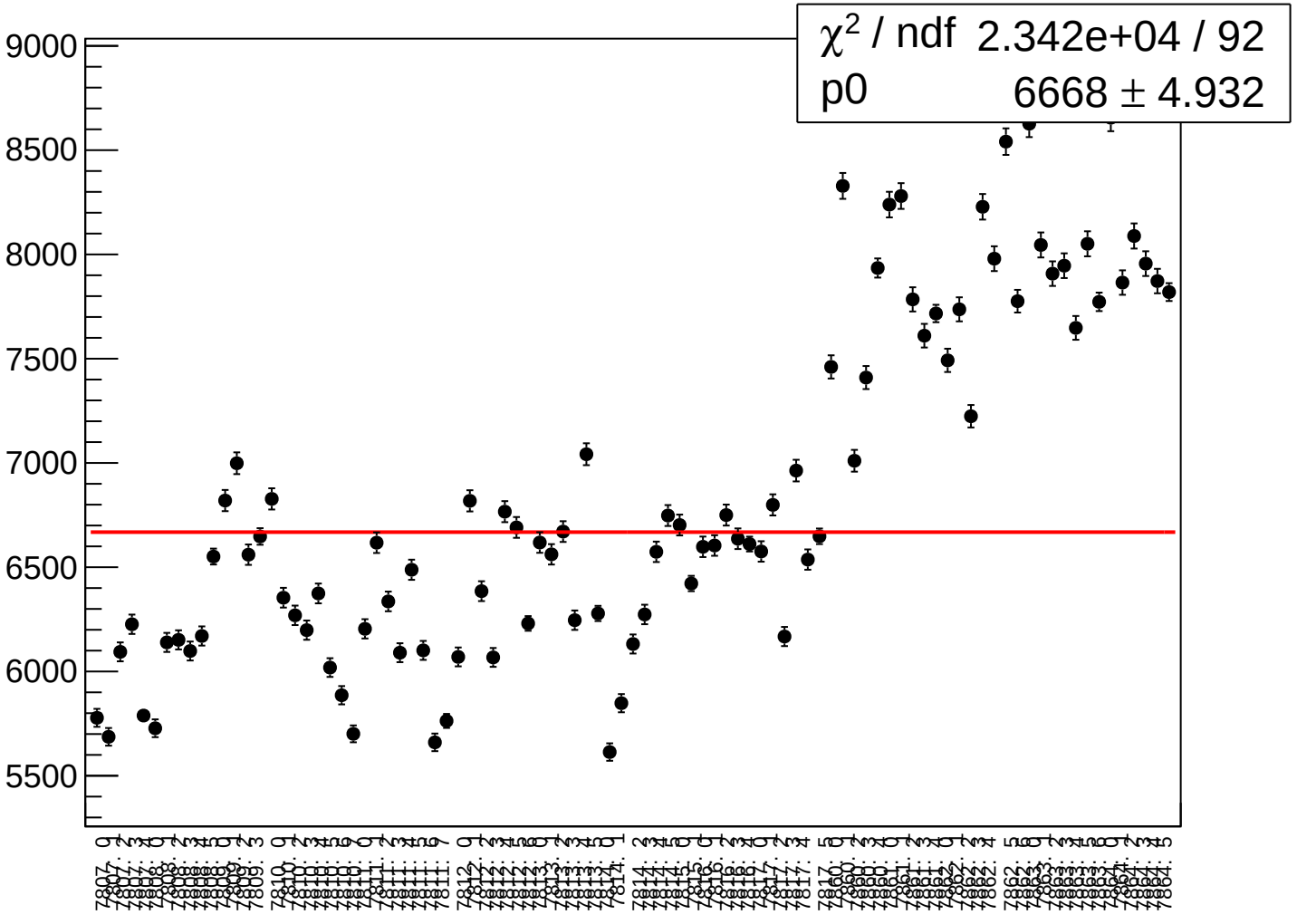

eigen_cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 98.47 / 92
p0 −1303 ± 1354
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 632
Std Dev 0
3
2
1
0
−1
−2

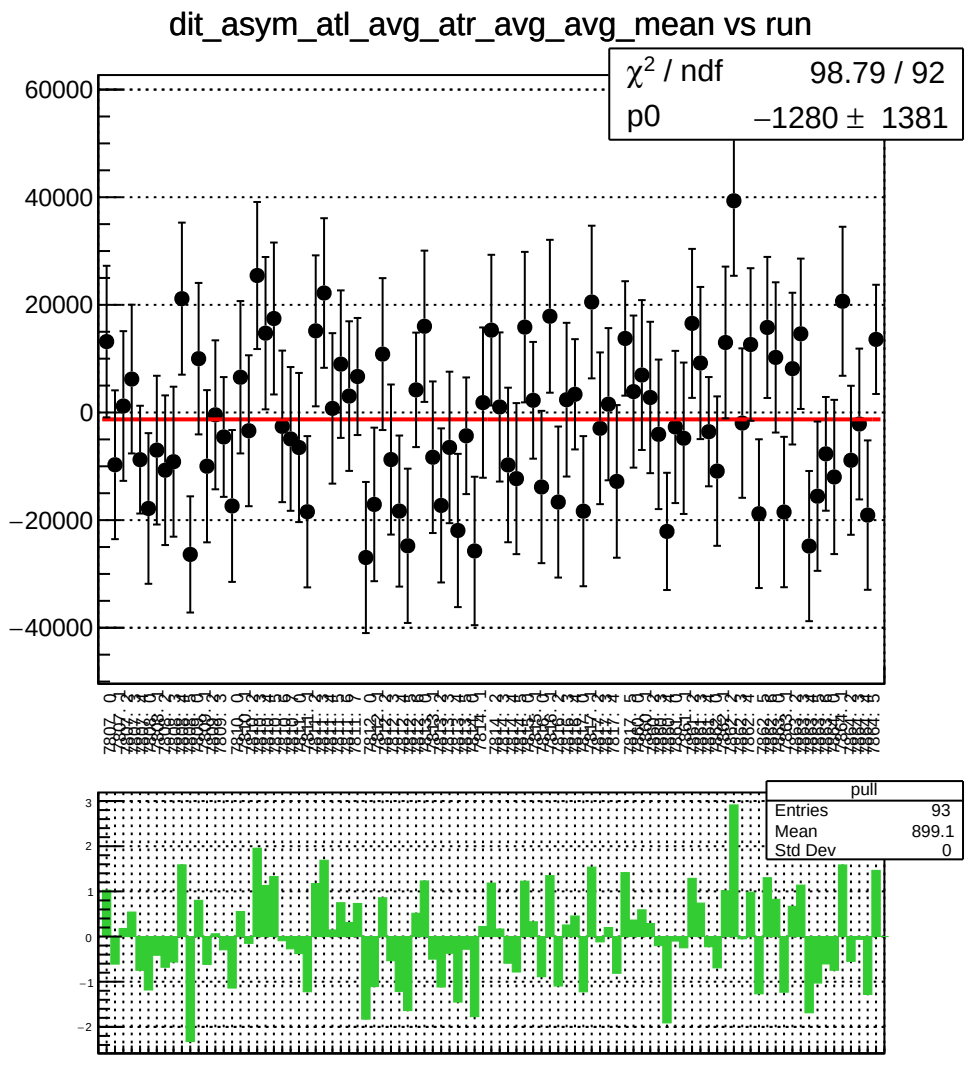

pull1D
Entries 93
Mean 0.00217
Std Dev 1.029
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

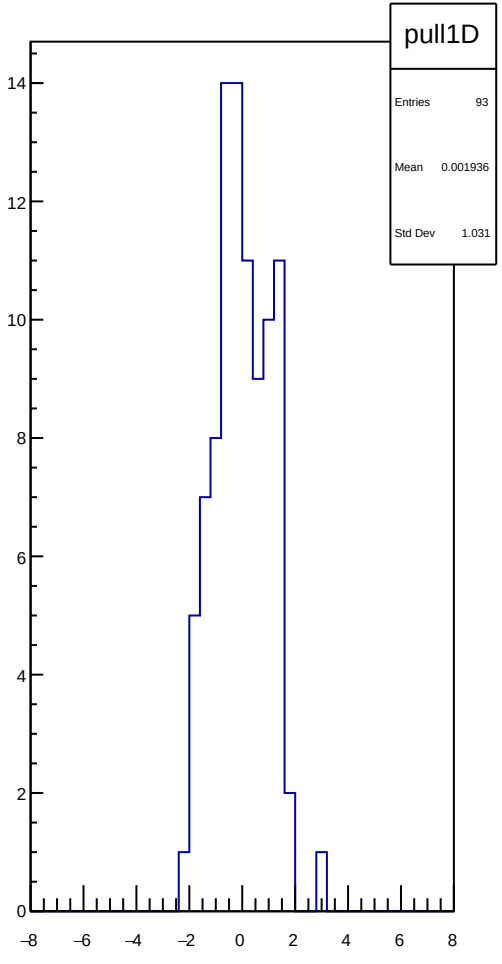

eigen_cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 149.5 / 92
p0 1302 ± 0.9572
1360
1340
1320
1300
1280
1260

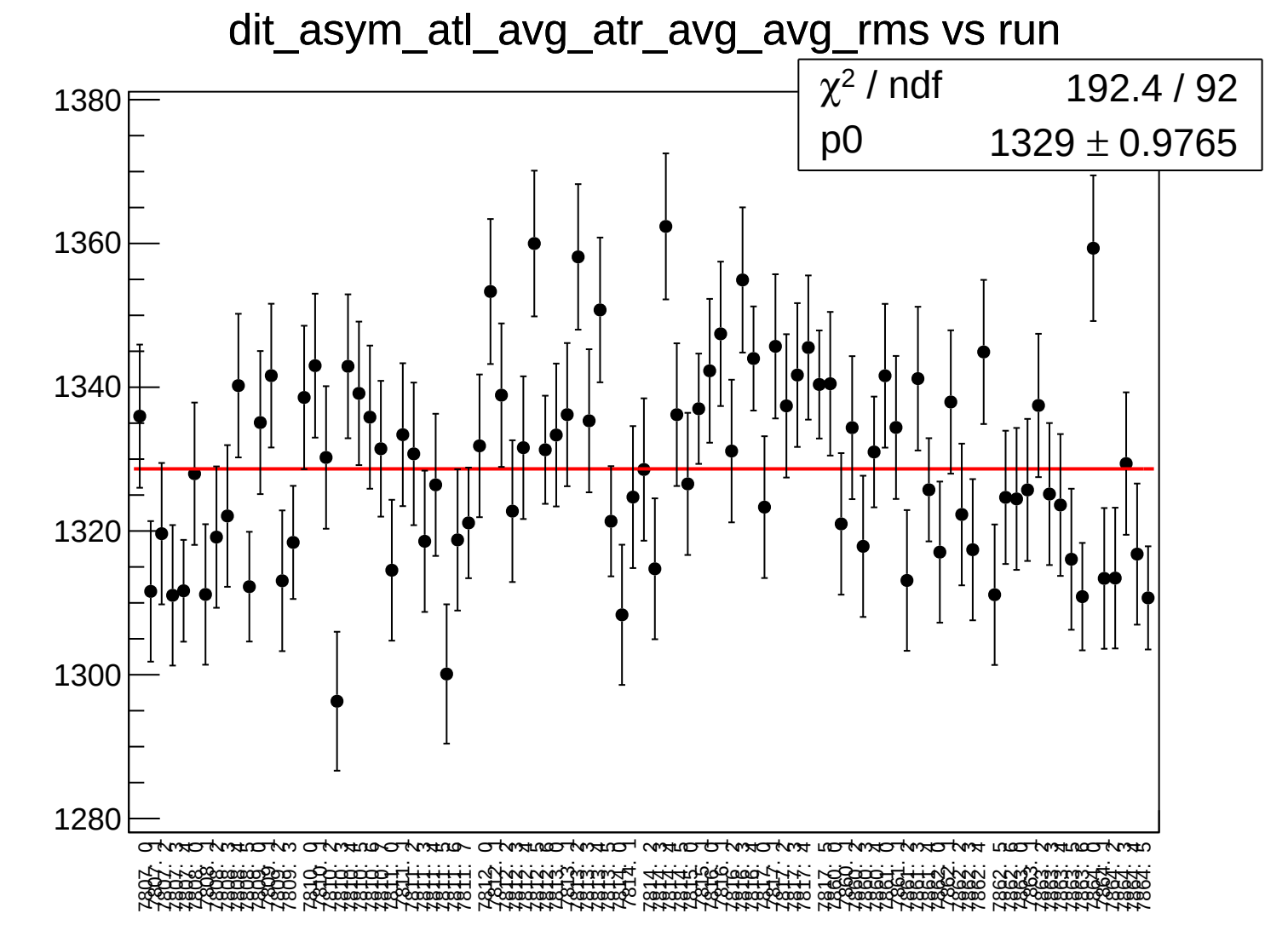

asym_atl_avg_atr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 84.32 / 92
p0 6935 ± 6975
200
100
0
−100
−200
−300
pull
Entries 93
Mean −50.47
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

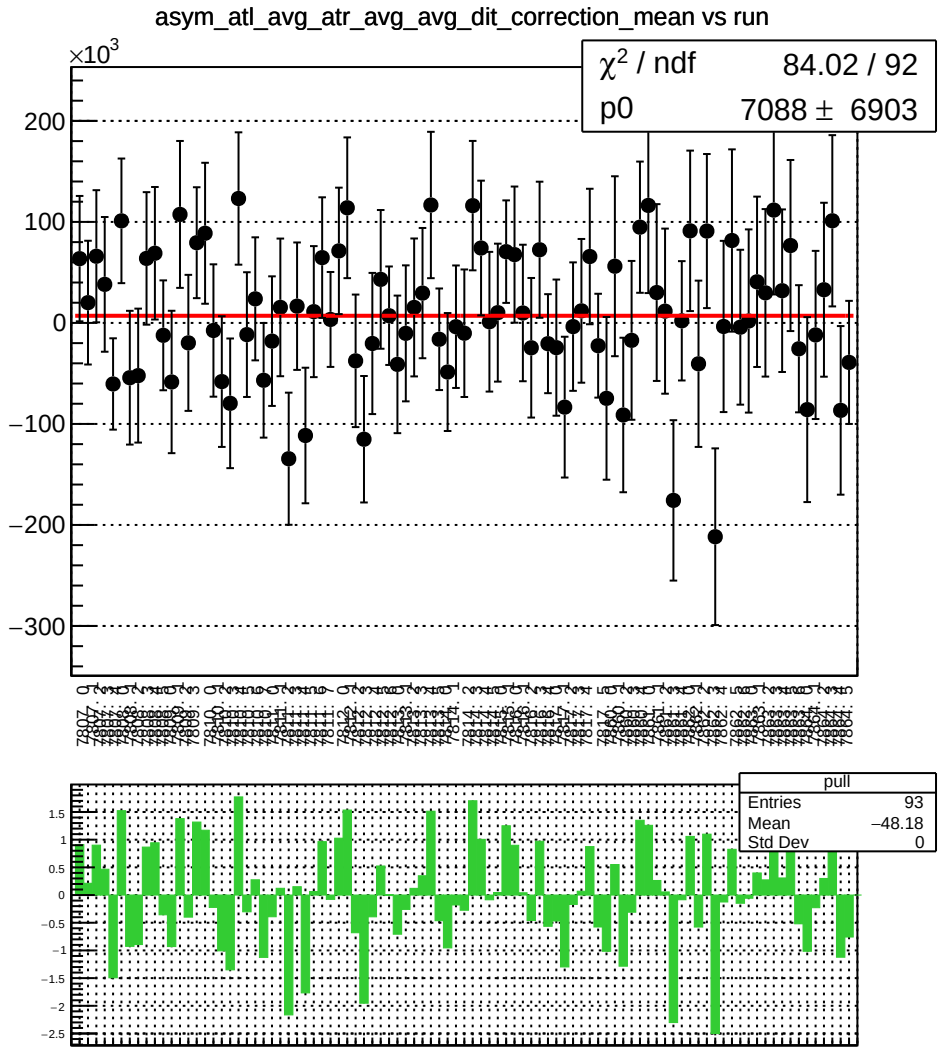

pull1D
Entries 93
Mean 0.01124
Std Dev 0.9521
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

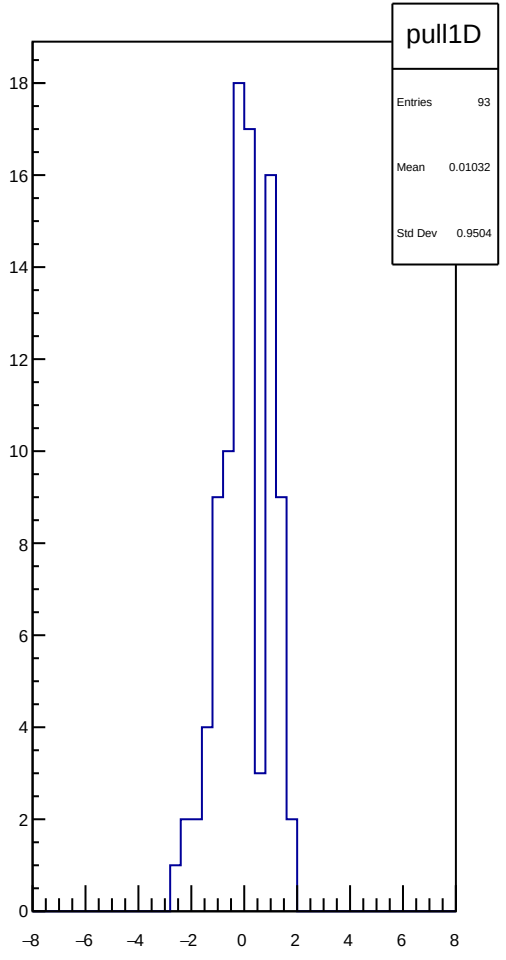

asym_atl_avg_atr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.342e+04 / 92
p0 6668 ± 4.932
9000
8500
8000
7500
7000
6500
6000
5500

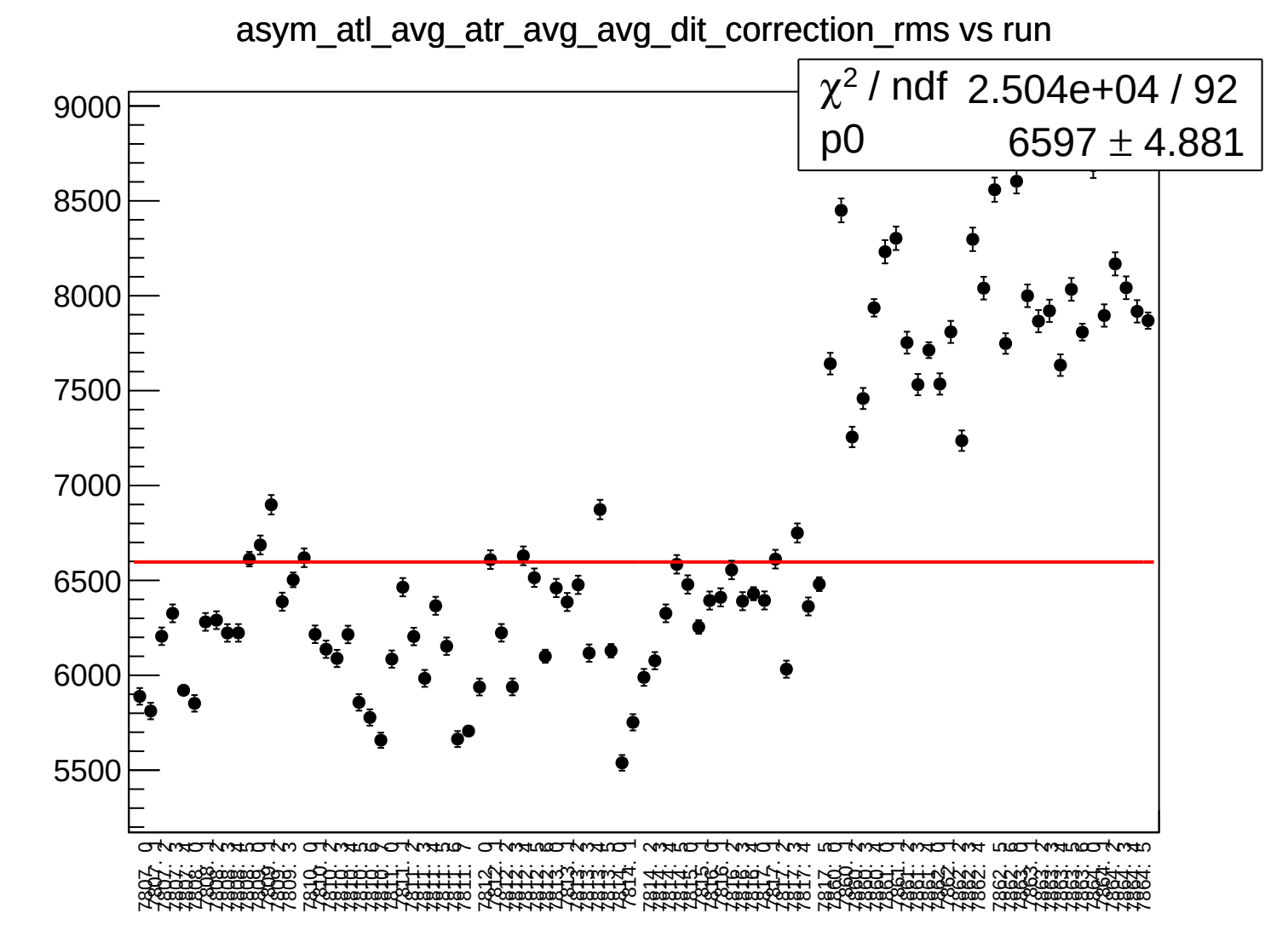

dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 98.79 / 92
p0 −1280 ± 1381
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 899.1
Std Dev 0
3
2
1
0
−1
−2

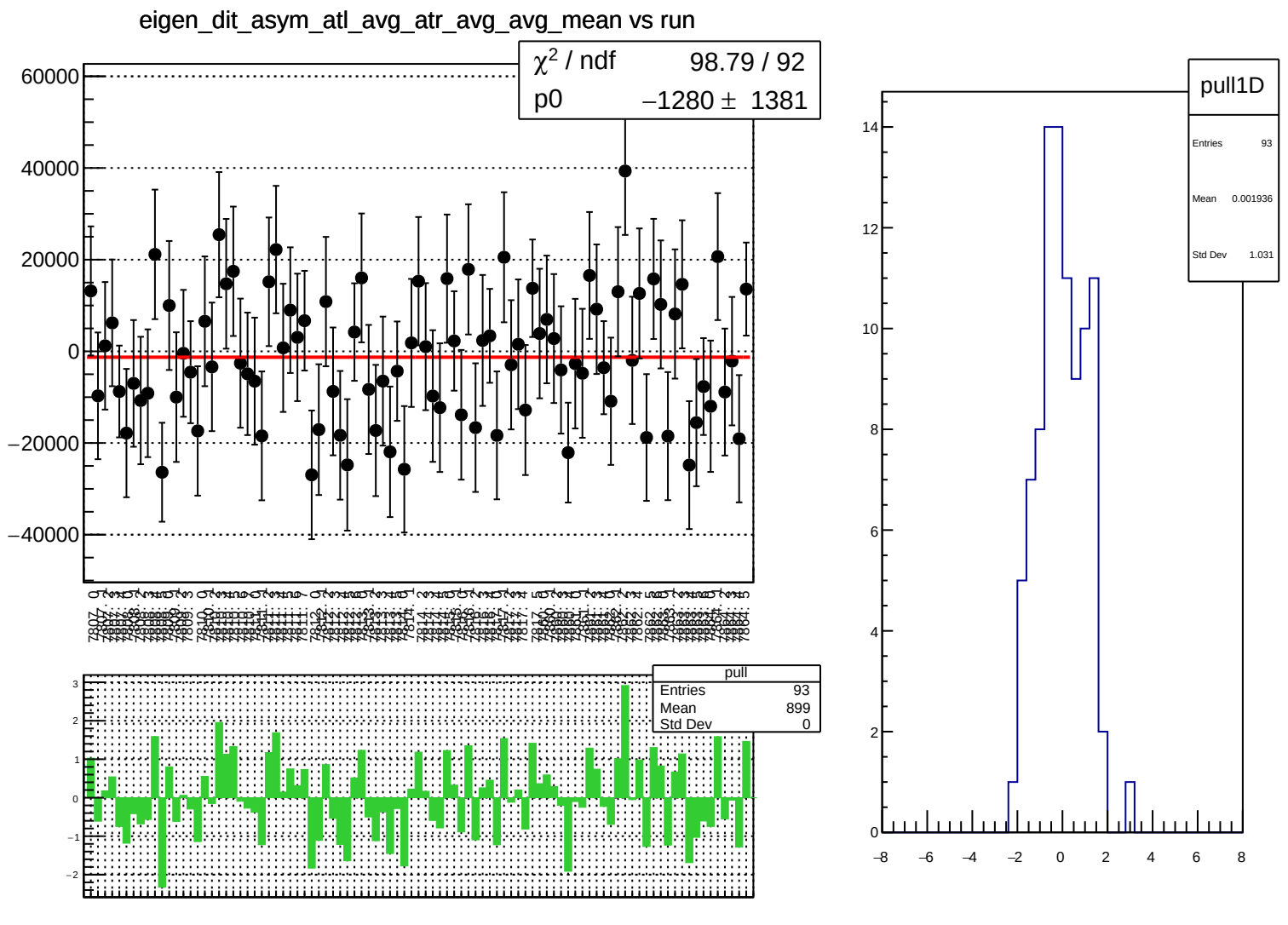

pull1D
Entries 93
Mean 0.001936
Std Dev 1.031
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

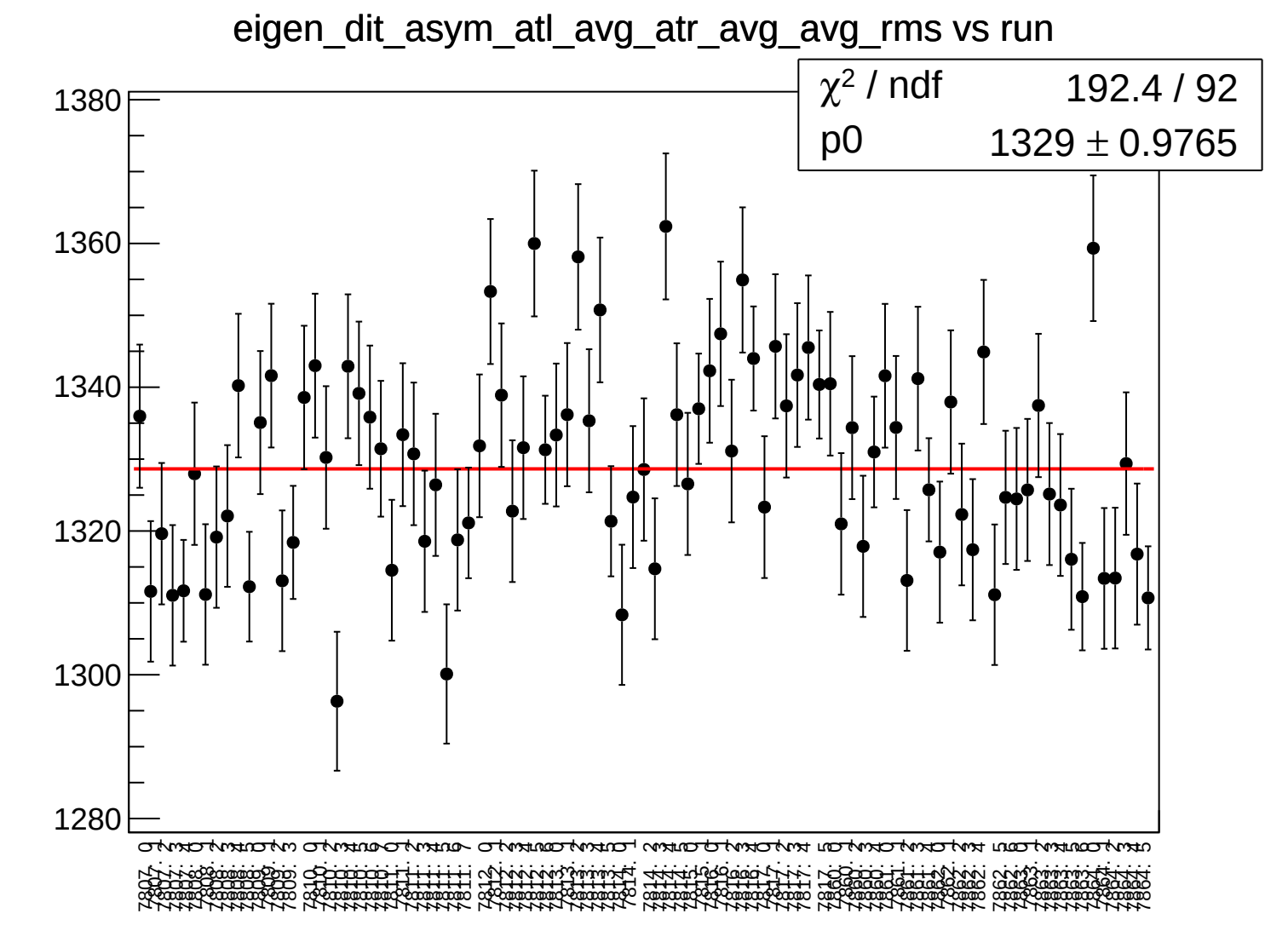

dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 192.4 / 92
p0 1329 ± 0.9765
1380
1360
1340
1320
1300
1280

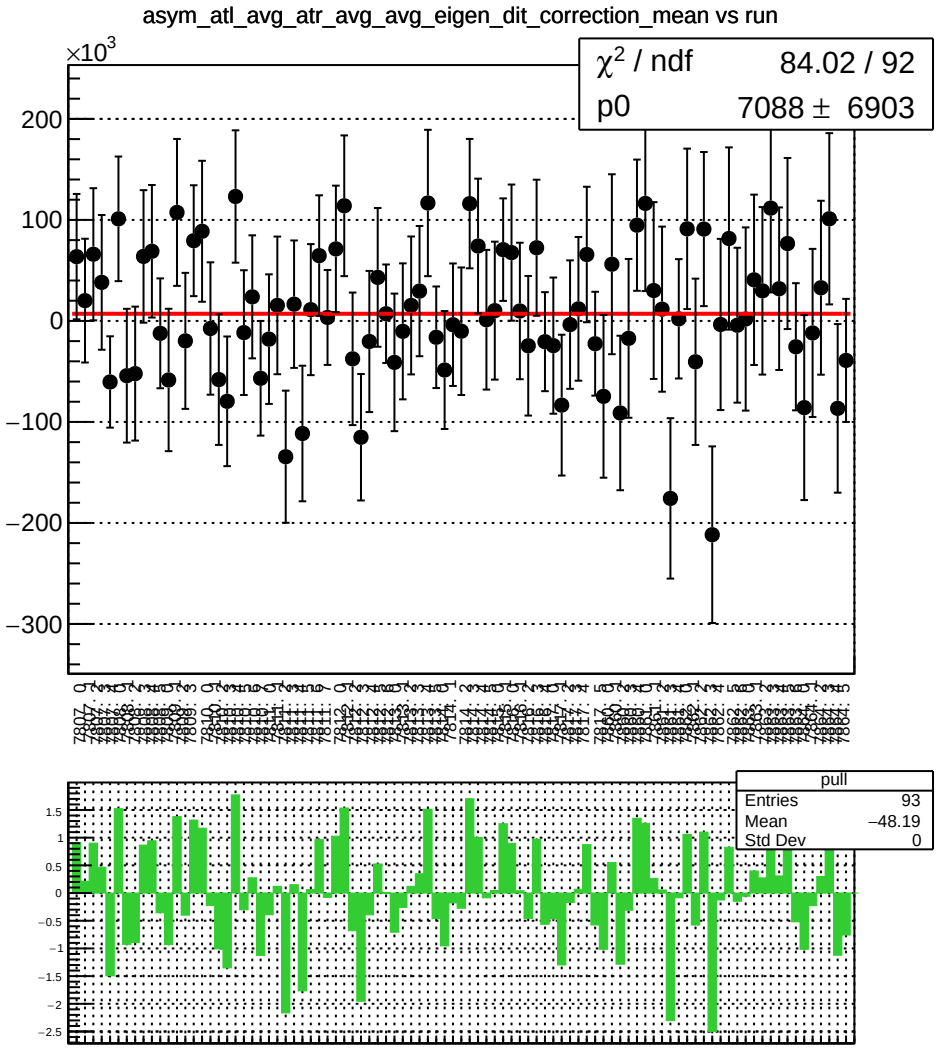

asym_atl_avg_atr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 84.02 / 92
p0 7088 ± 6903
200
100
0
−100
−200
−300
pull
Entries 93
Mean −48.18
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

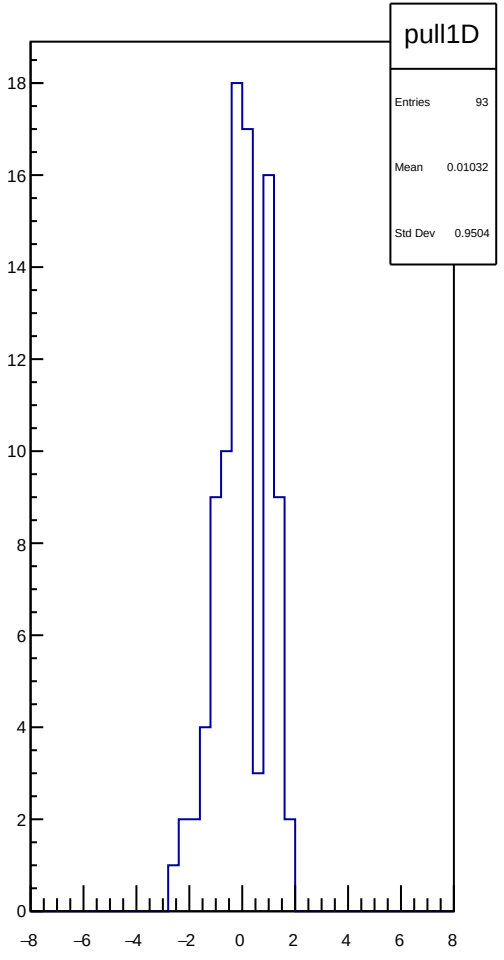

pull1D
Entries 93
Mean 0.01032
Std Dev 0.9504
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

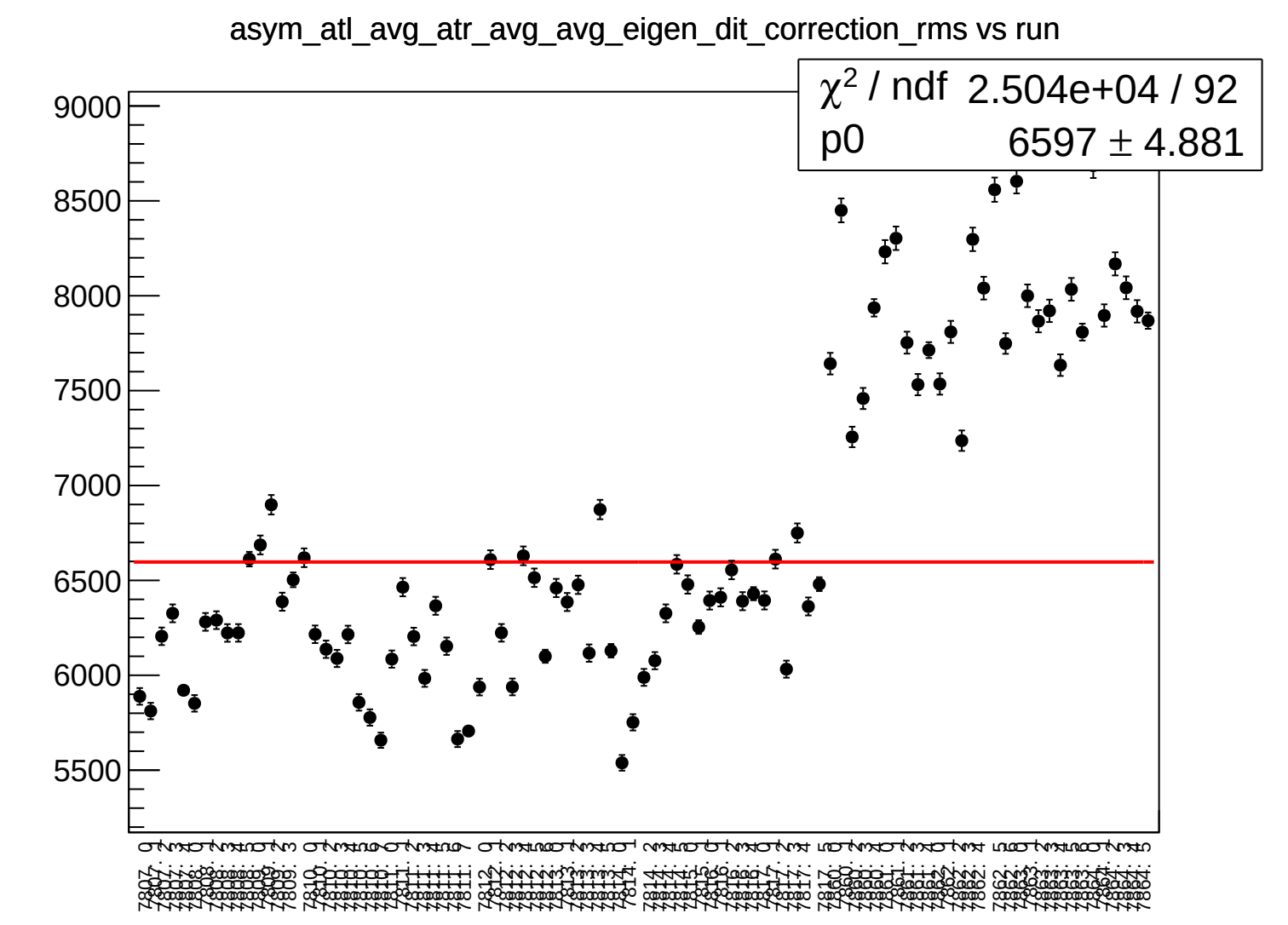

asym_atl_avg_atr_avg_avg_dit_correction_rms vs run
χ² / ndf 2.504e+04 / 92
p0 6597 ± 4.881
9000
8500
8000
7500
7000
6500
6000
5500

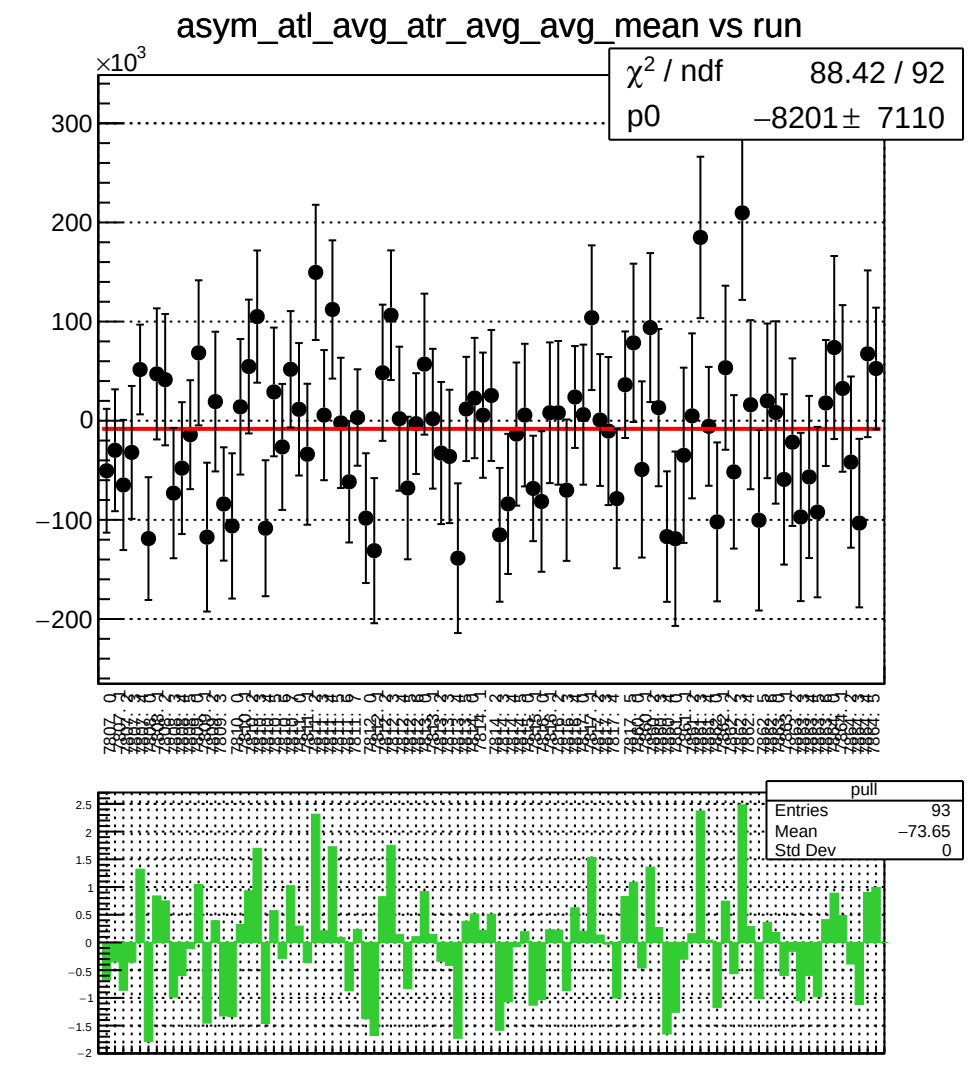

eigen_dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 98.79 / 92
p0 −1280 ± 1381
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 899
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.001936
Std Dev 1.031
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

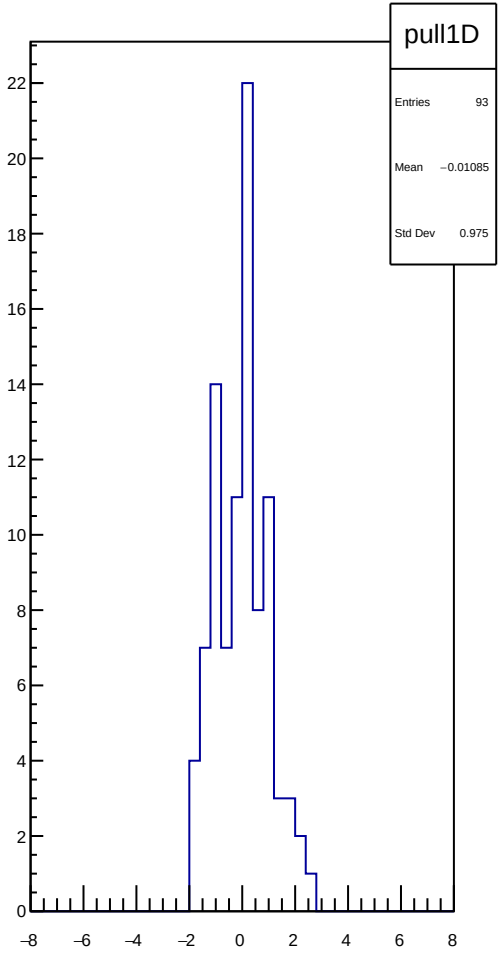

eigen_dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 192.4 / 92
p0 1329 ± 0.9765
1380
1360
1340
1320
1300
1280

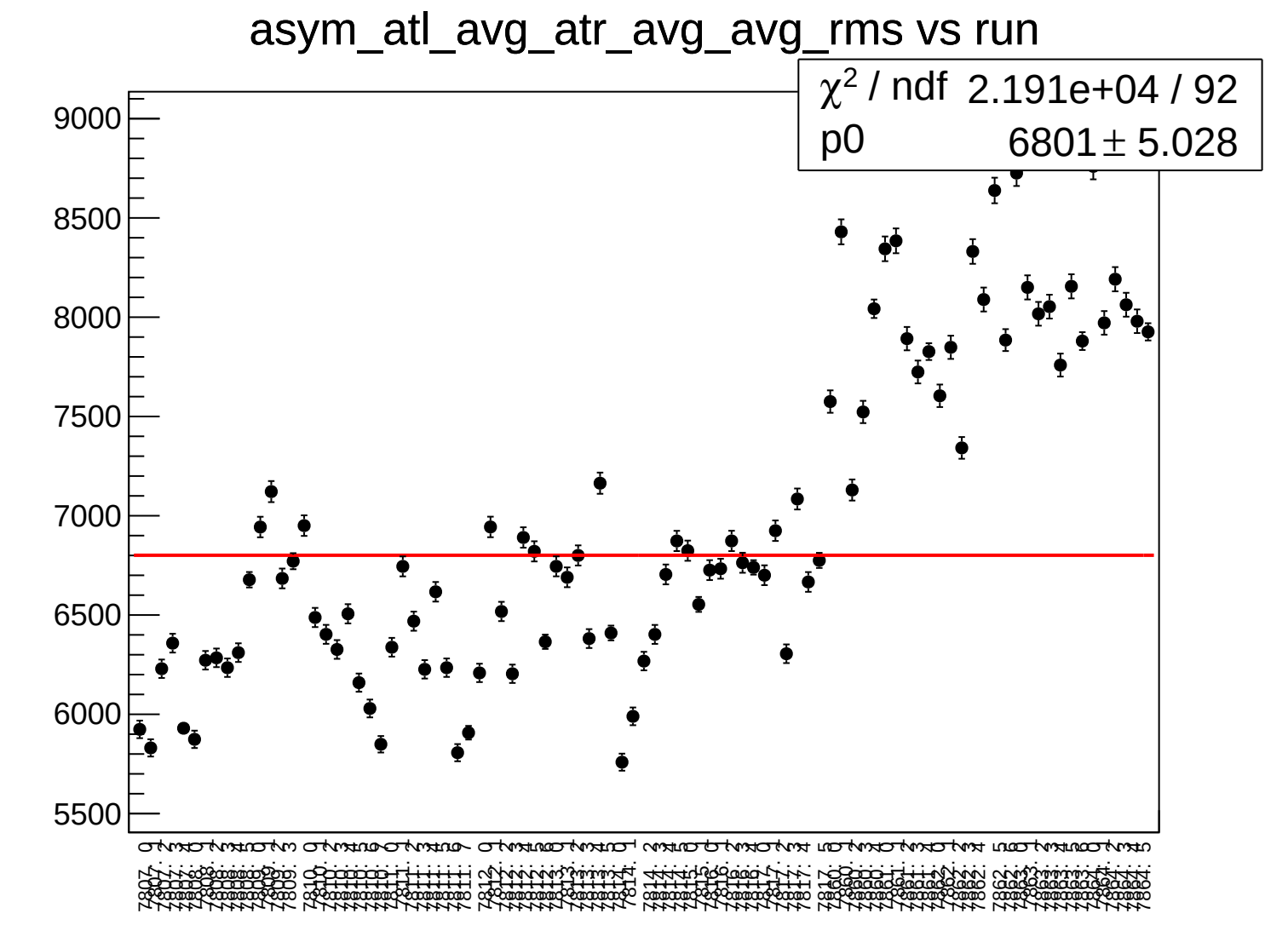

asym_atl_avg_atr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 84.02 / 92
p0 7088 ± 6903
pull
Entries 93
Mean −48.19
Std Dev 0

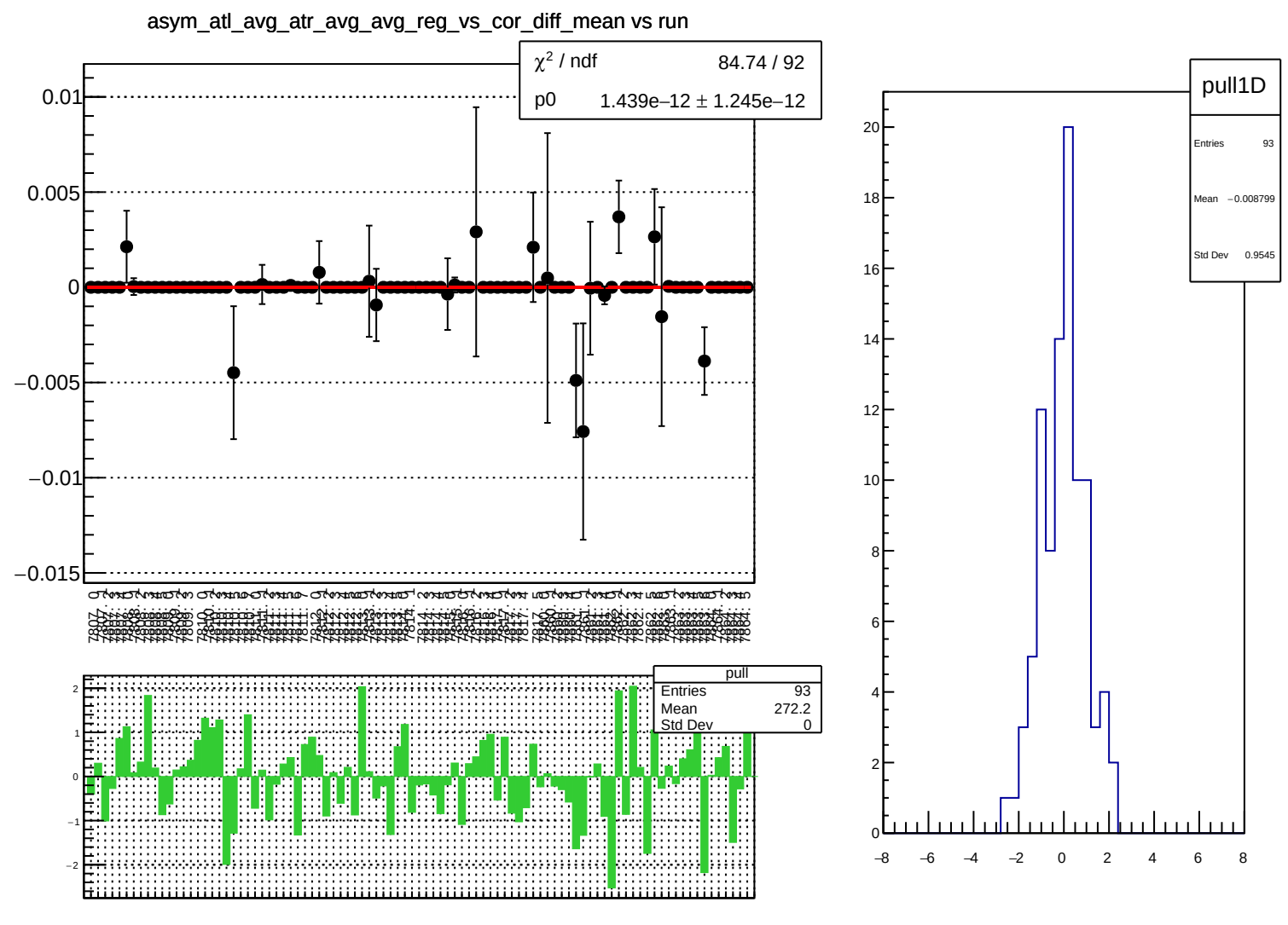

pull1D
Entries 93
Mean 0.01032
Std Dev 0.9504

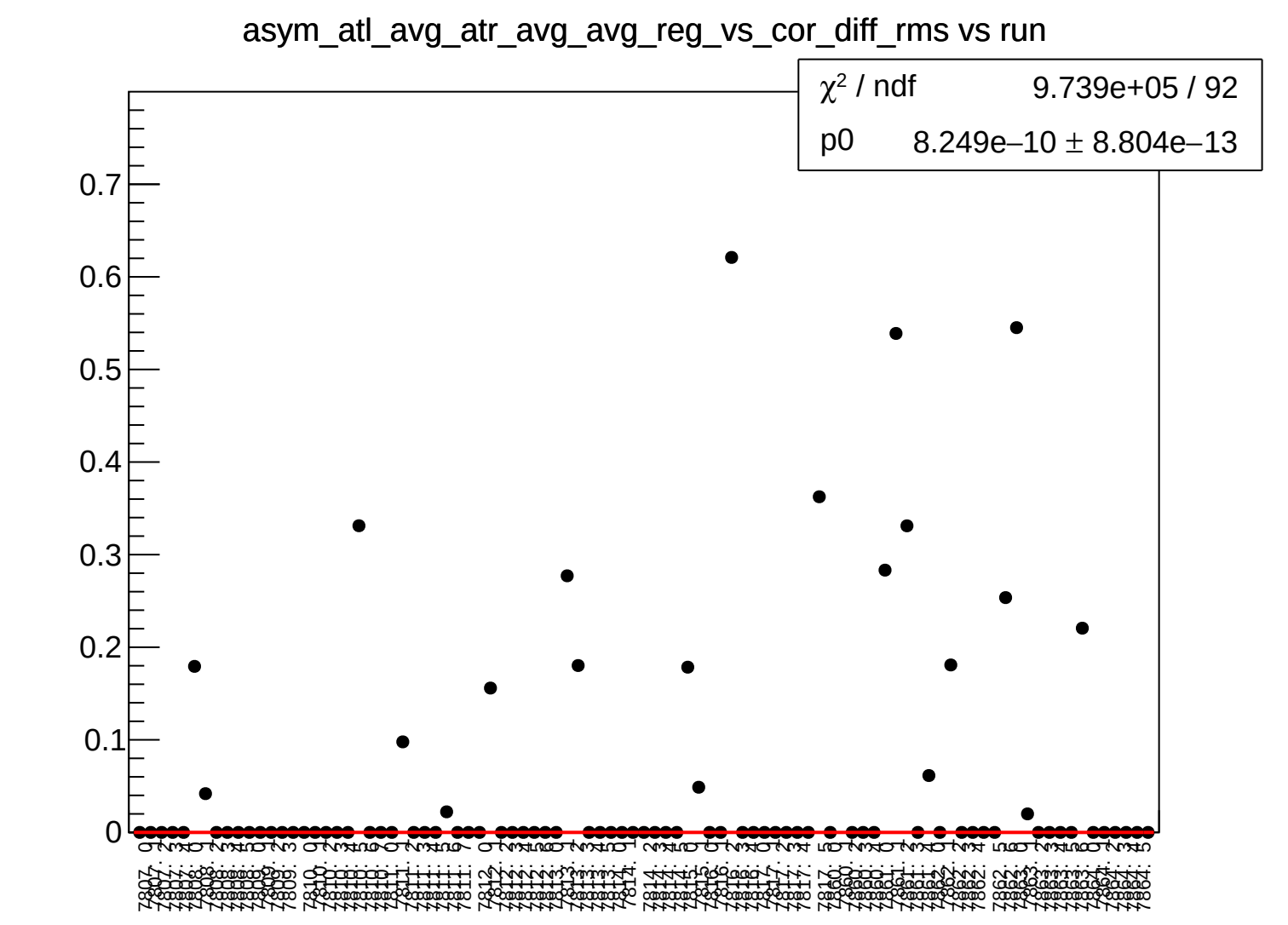

asym_atl_avg_atr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.504e+04 / 92
p0 6597 ± 4.881
9000
8500
8000
7500
7000
6500
6000
5500

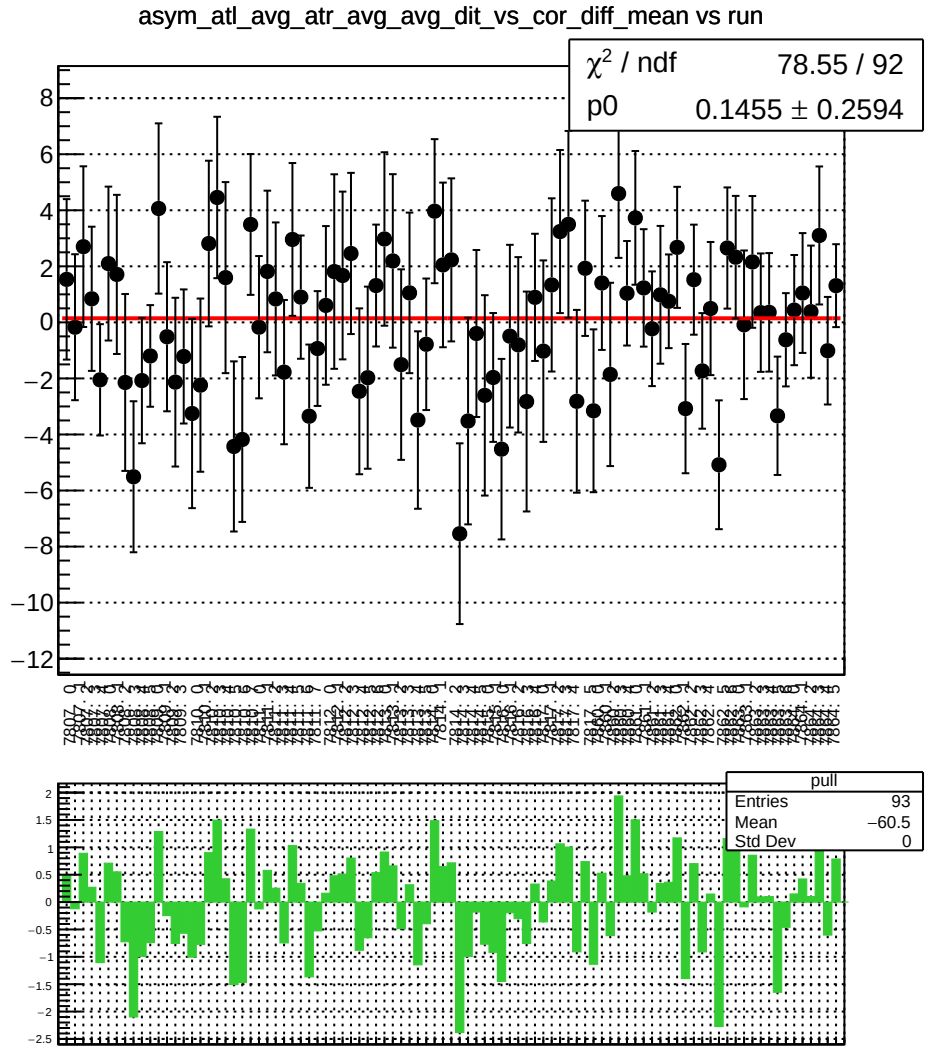

asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 88.42 / 92
p0 −8201 ± 7110
×10³
pull
Entries 93
Mean −73.65
Std Dev 0

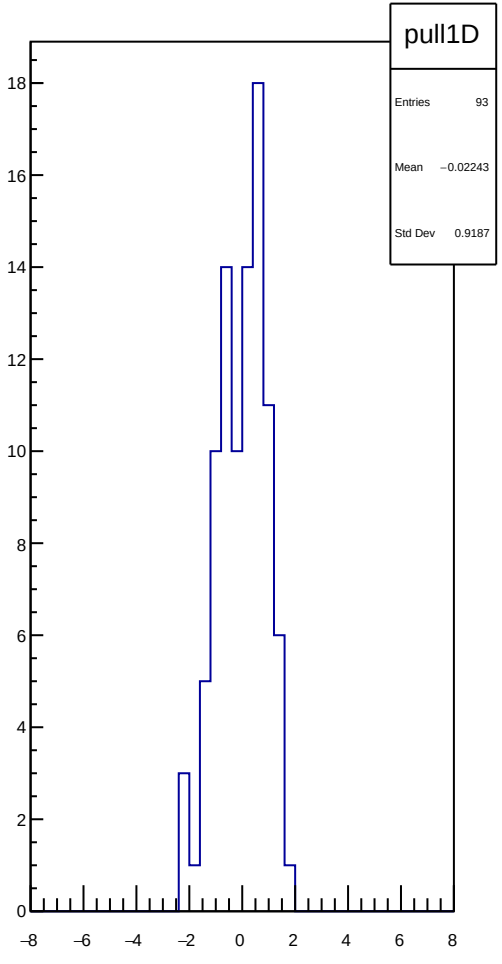

pull1D
Entries 93
Mean −0.01085
Std Dev 0.975

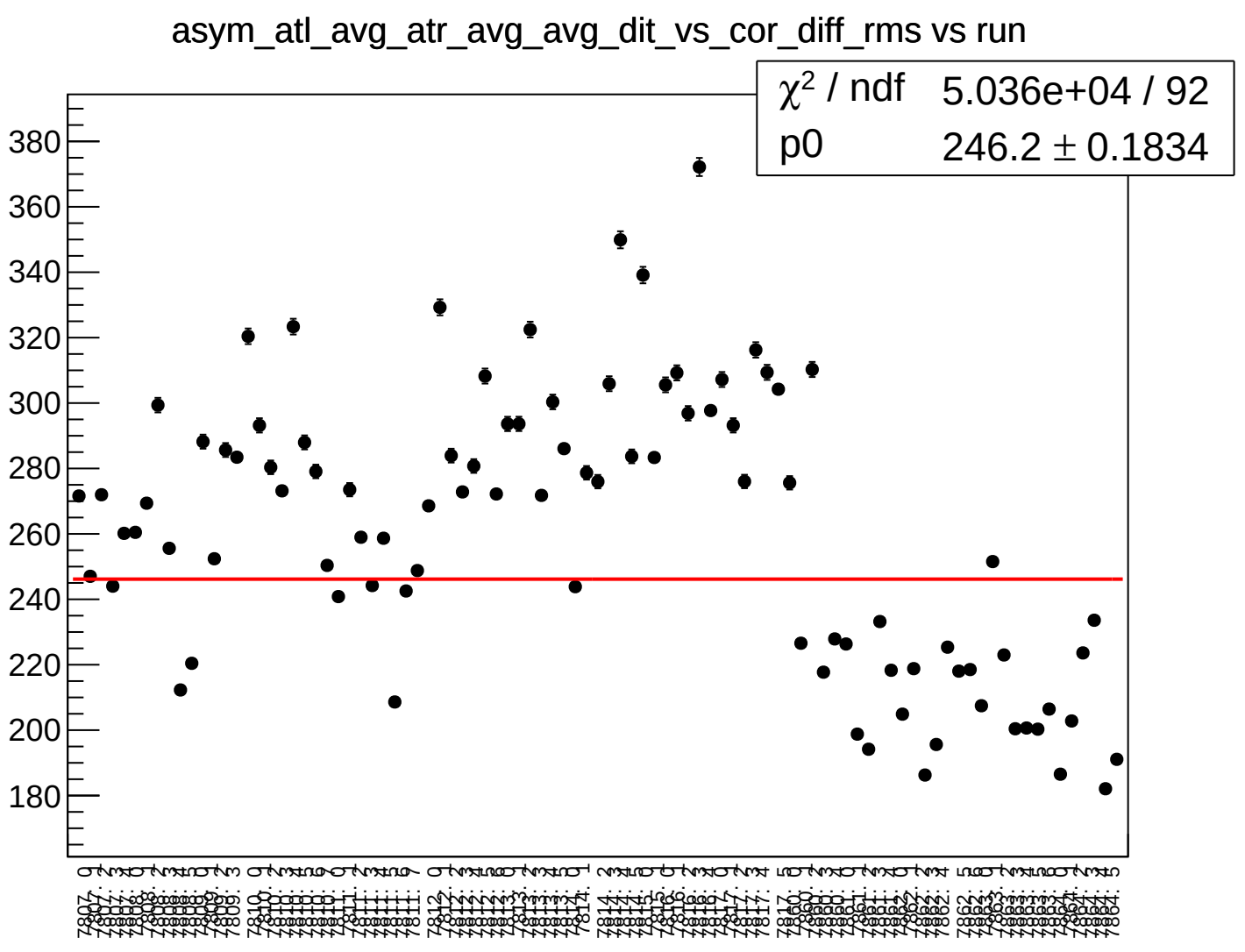

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 2.191e+04 / 92
p0 6801 ± 5.028
9000
8500
8000
7500
7000
6500
6000
5500

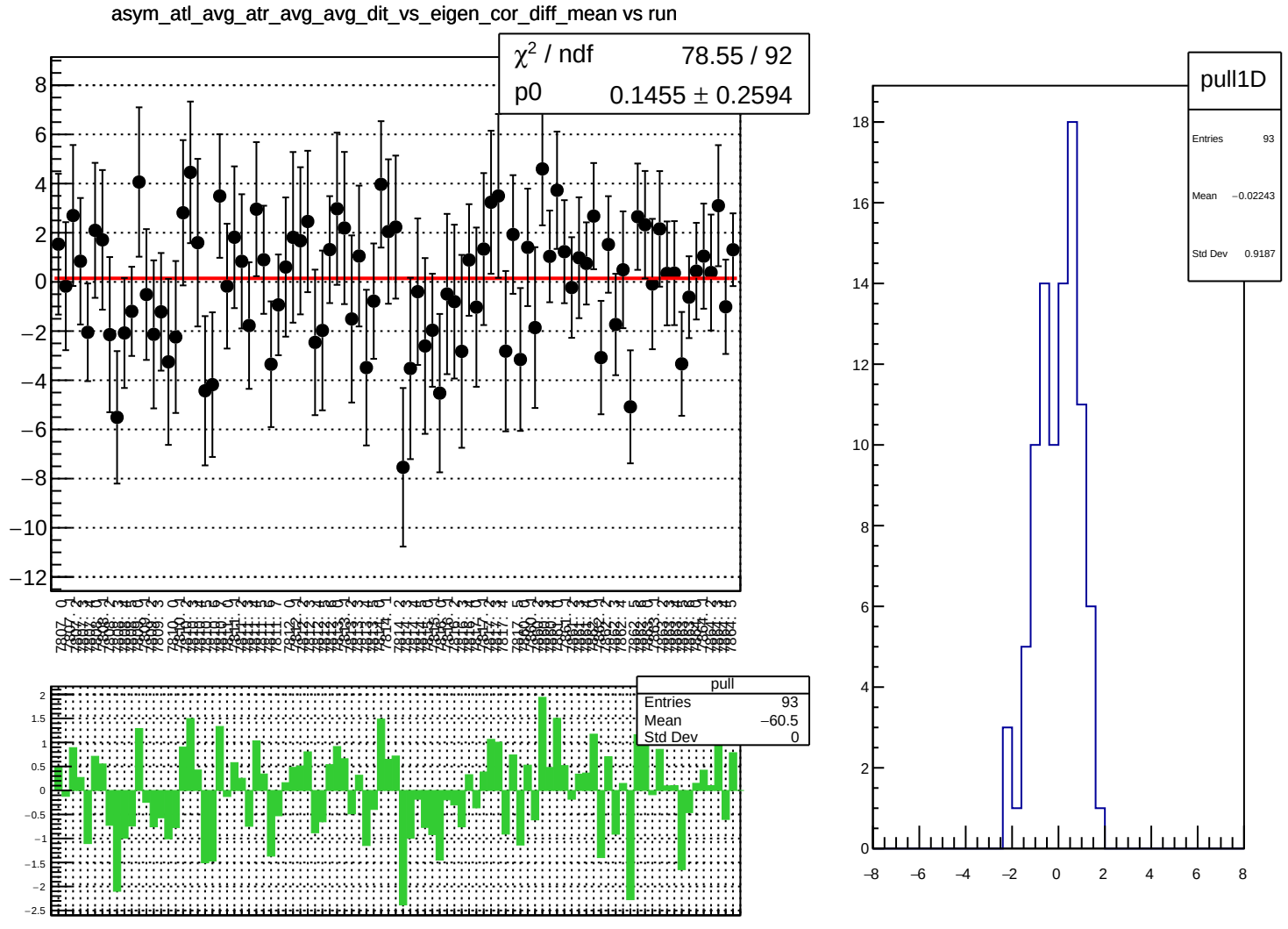

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 84.74 / 92
p0 1.439e−12 ± 1.245e−12
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 93
Mean 272.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.008799
Std Dev 0.9545
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

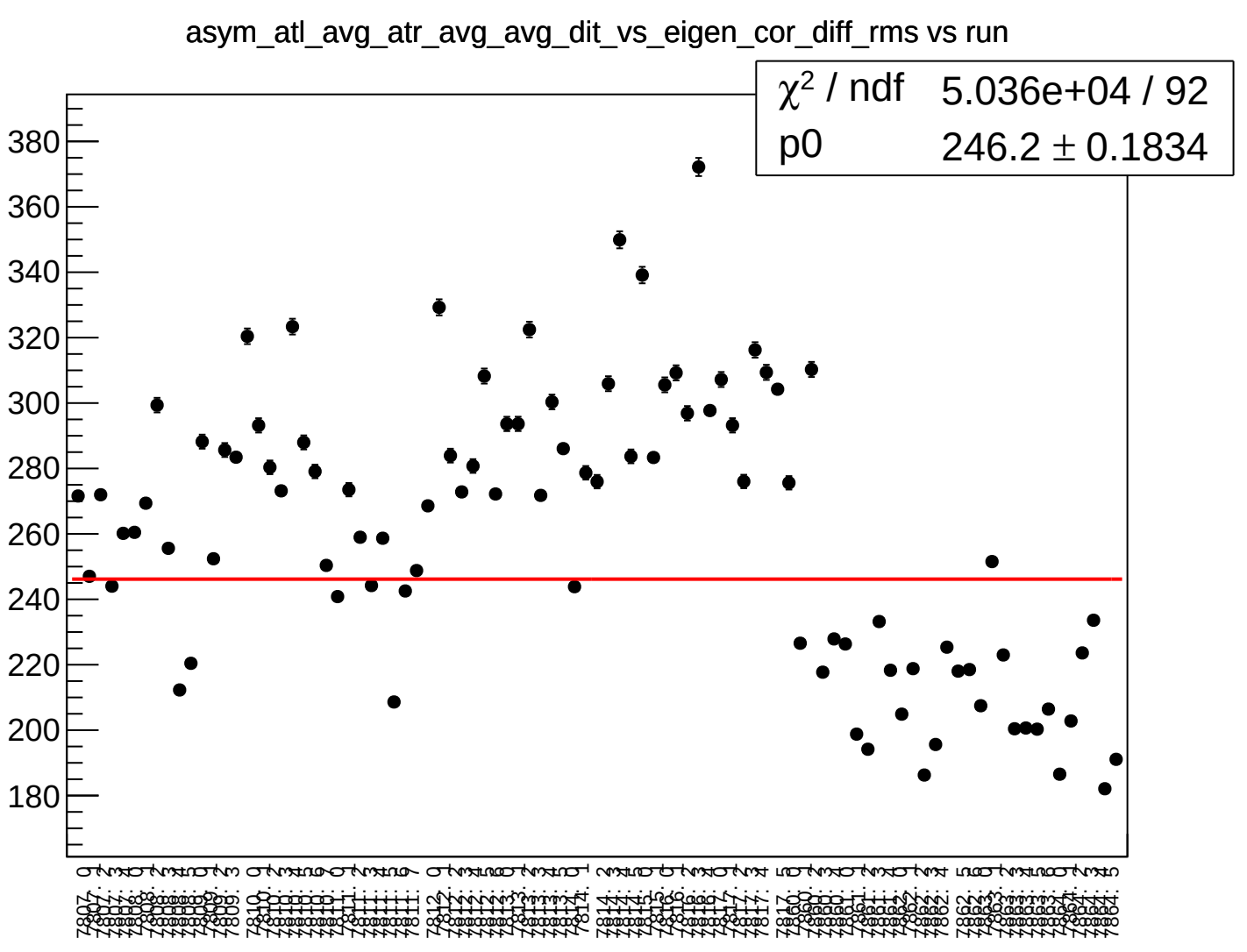

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.739e+05 / 92
p0 8.249e−10 ± 8.804e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

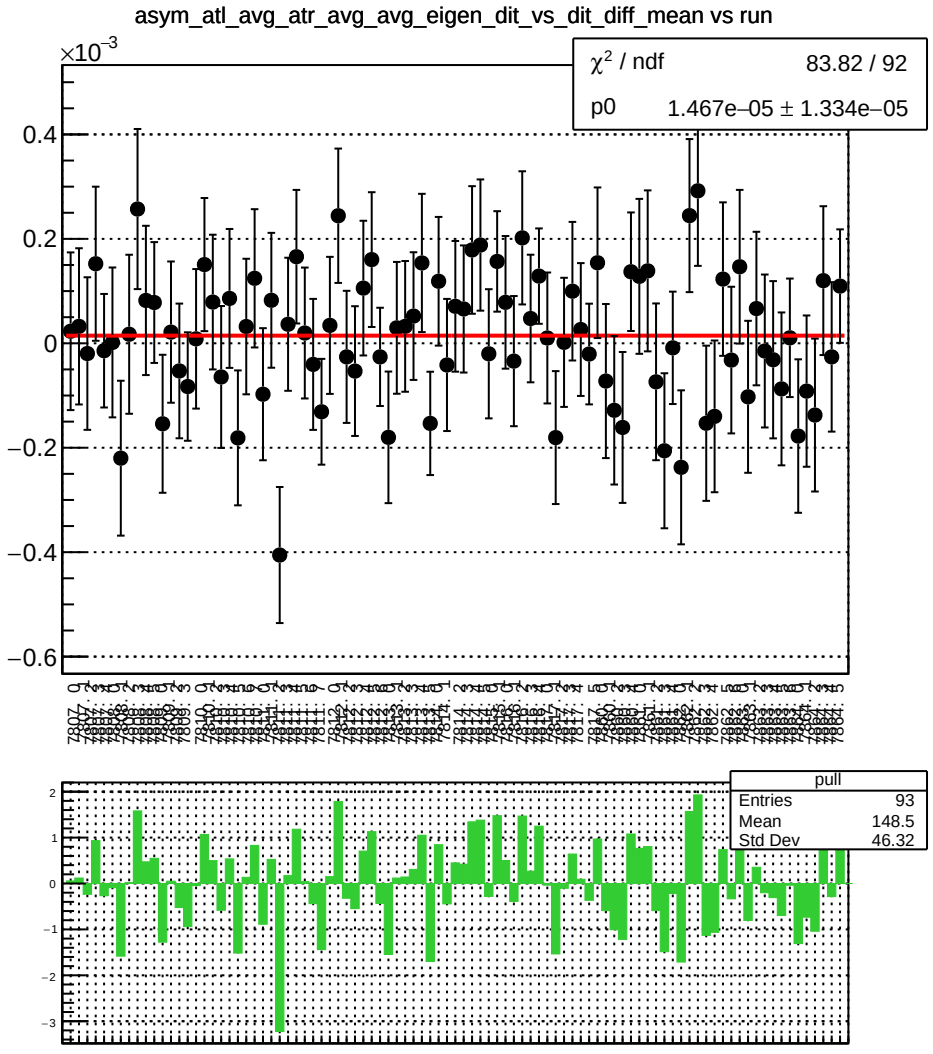

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 78.55 / 92
p0 0.1455 ± 0.2594
pull
Entries 93
Mean −60.5
Std Dev 0

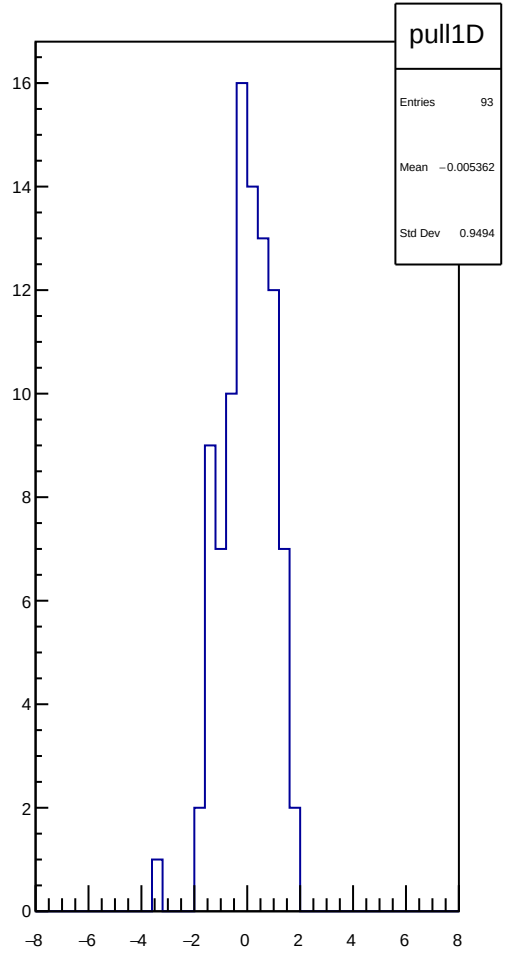

pull1D
Entries 93
Mean −0.02243
Std Dev 0.9187

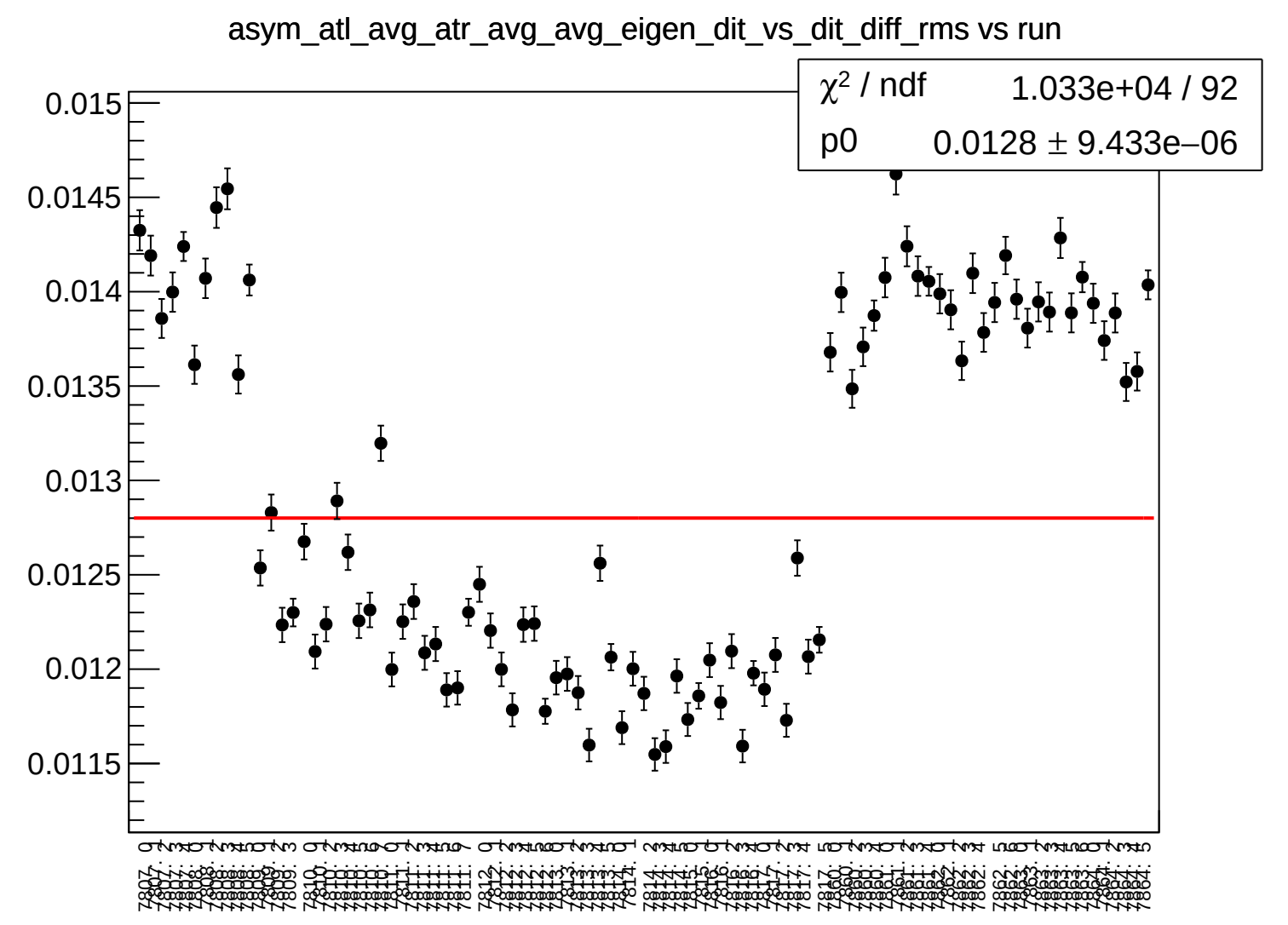

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.036e+04 / 92
p0 246.2 ± 0.1834
380
360
340
320
300
280
260
240
220
200
180

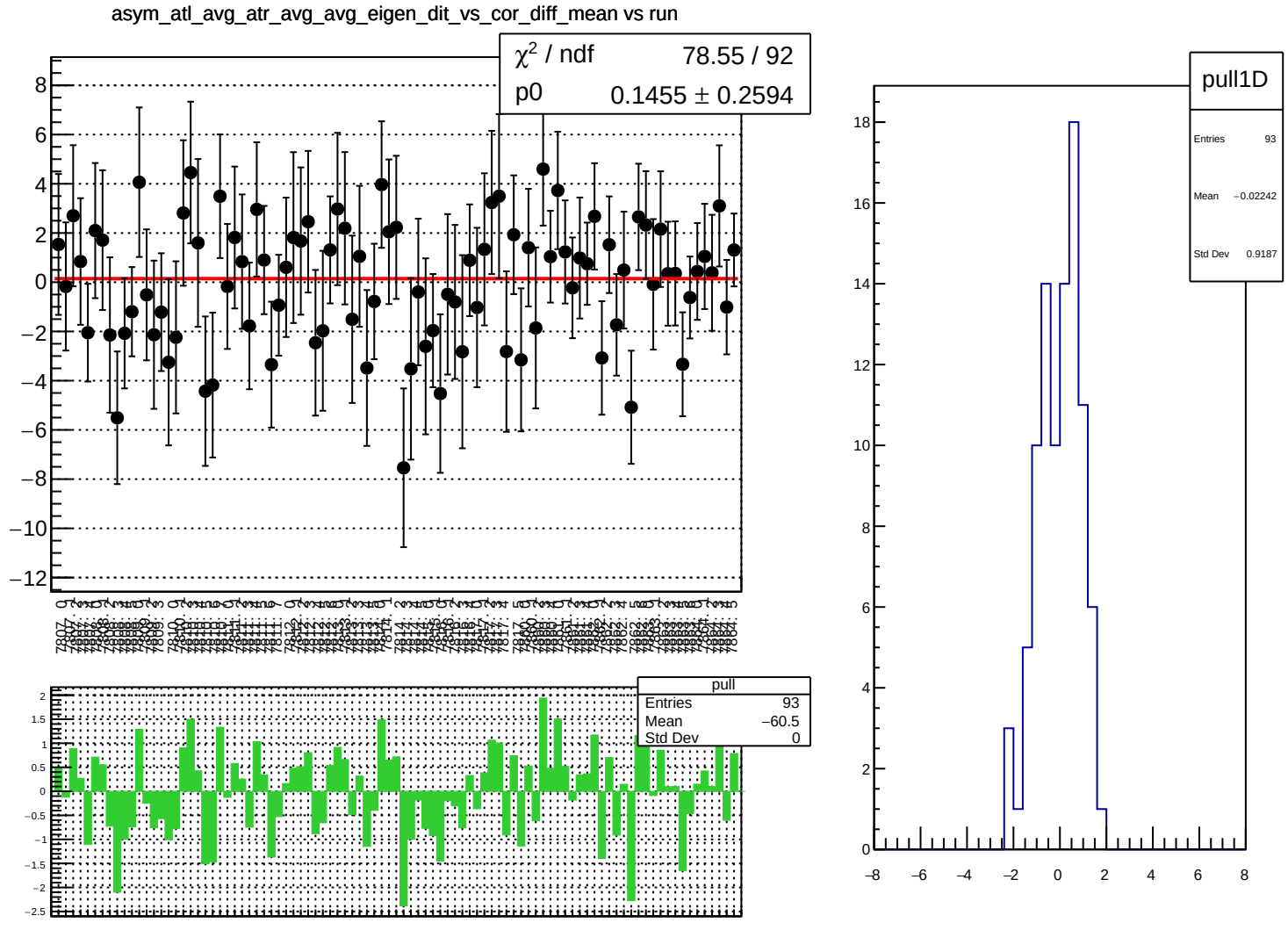

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.55 / 92
p0 0.1455 ± 0.2594
pull
Entries 93
Mean −60.5
Std Dev 0
pull1D
Entries 93
Mean −0.02243
Std Dev 0.9187

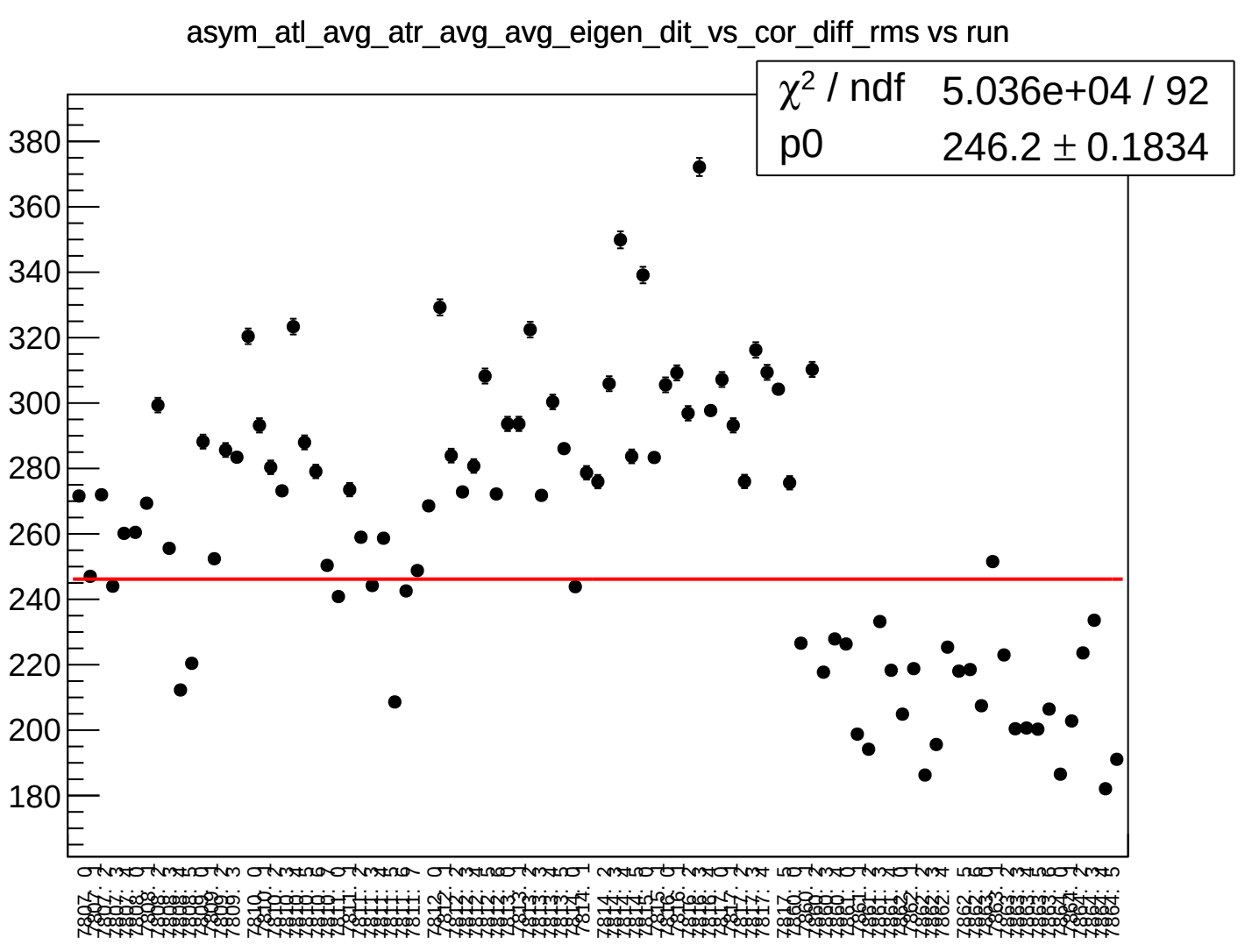

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.036e+04 / 92
p0 246.2 ± 0.1834
380
360
340
320
300
280
260
240
220
200
180

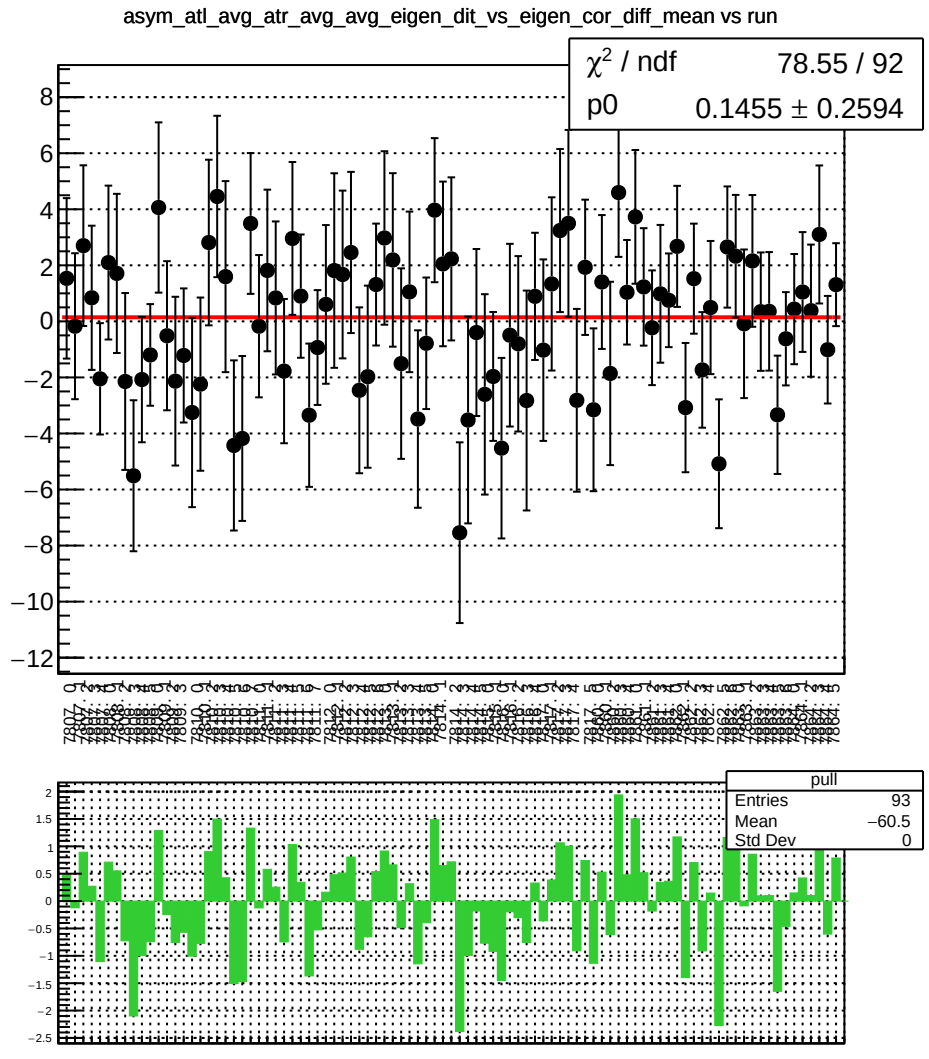

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 83.82 / 92
p0 1.467e−05 ± 1.334e−05
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 93
Mean 148.5
Std Dev 46.32
2
1
0
−1
−2
−3

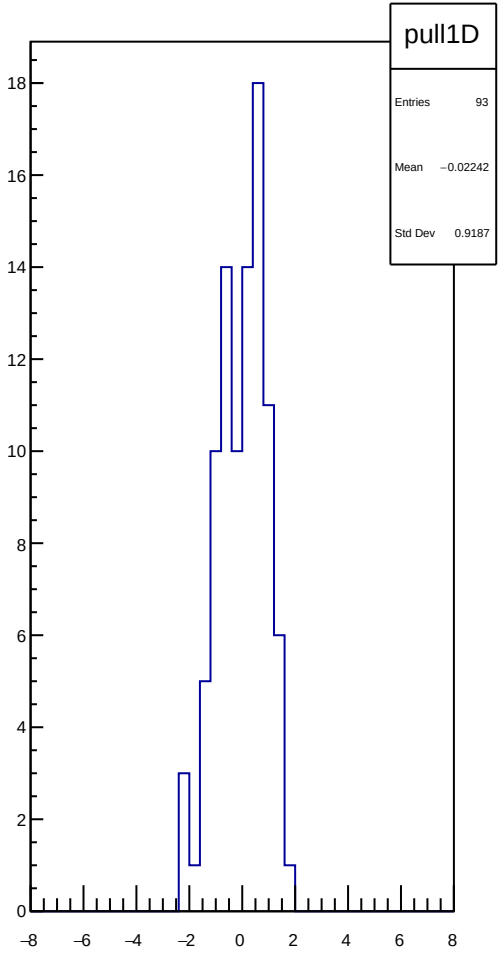

pull1D
Entries 93
Mean −0.005362
Std Dev 0.9494
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

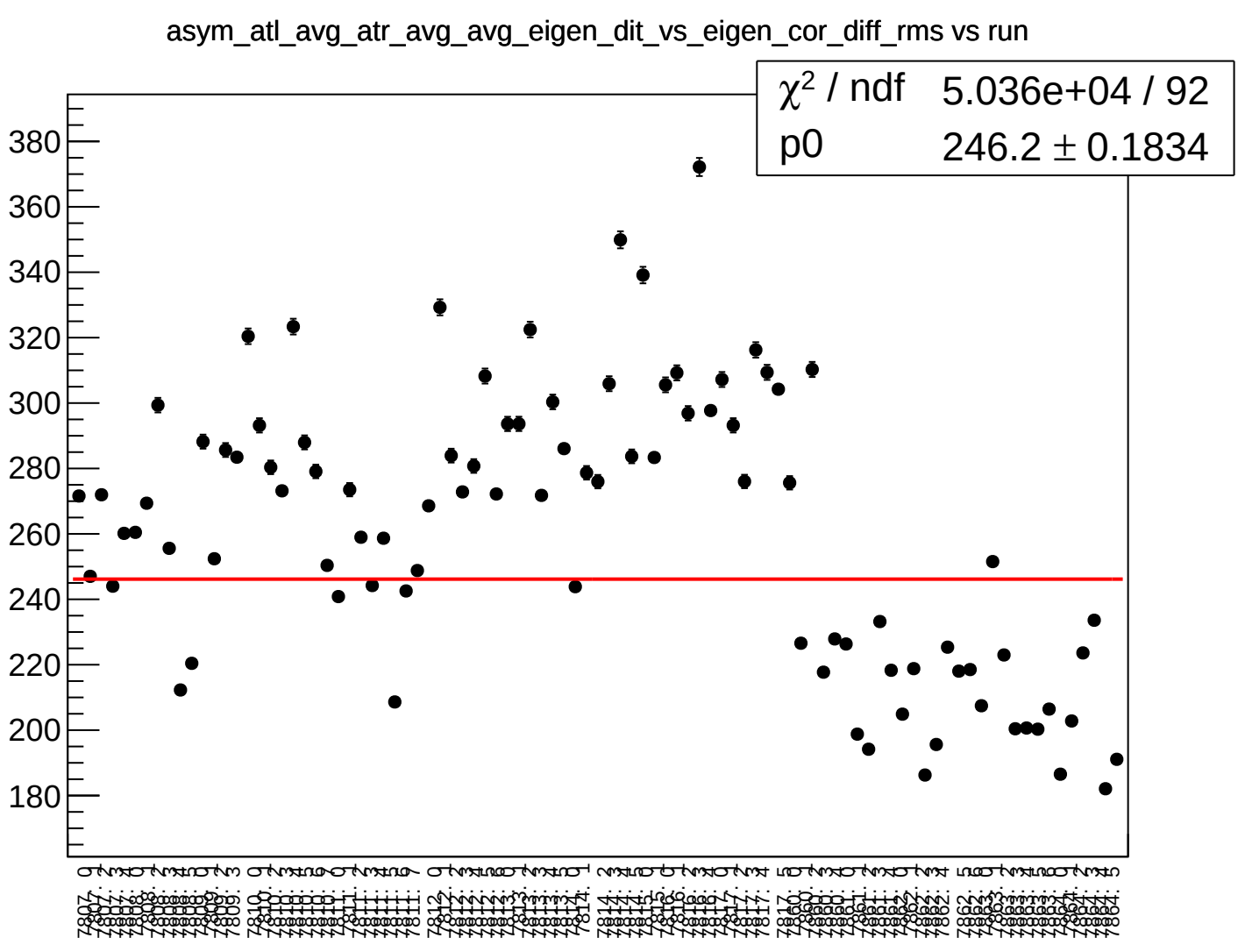

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.033e+04 / 92
p0 0.0128 ± 9.433e−06
0.015
0.0145
0.014
0.0135
0.013
0.0125
0.012
0.0115

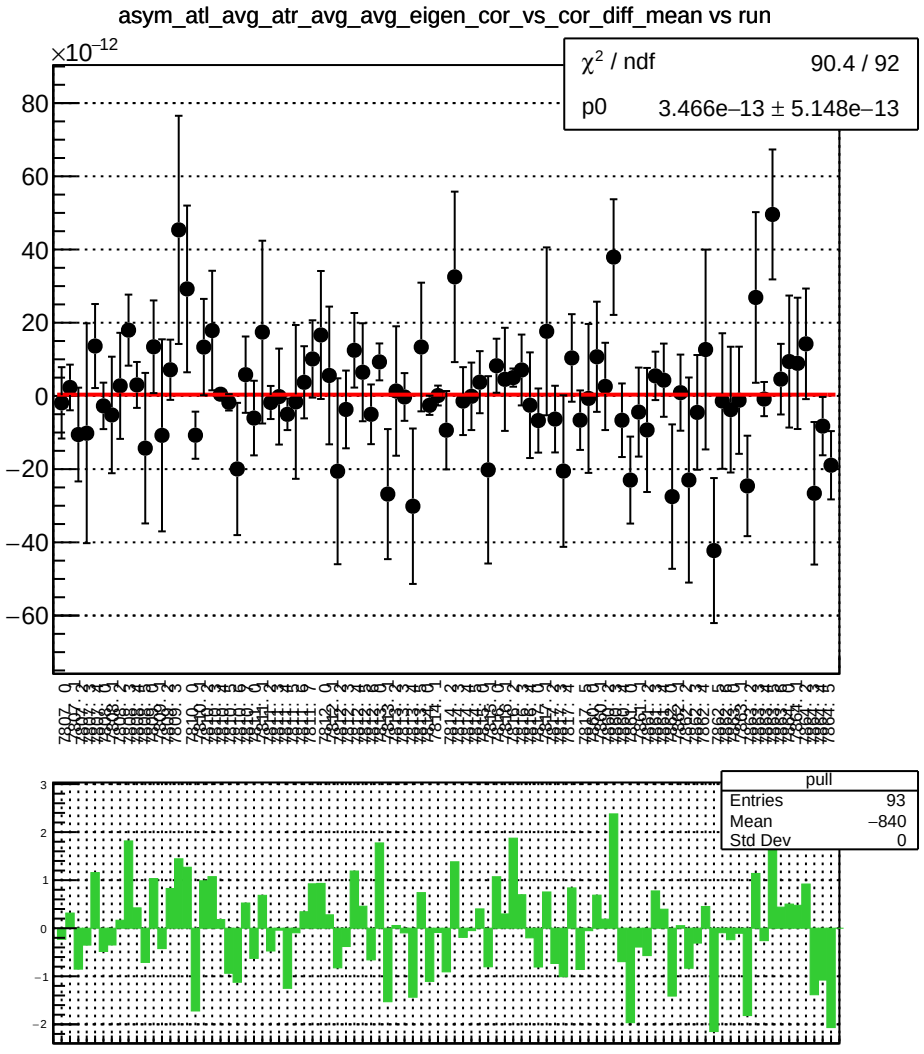

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.55 / 92
p0 0.1455 ± 0.2594
pull
Entries 93
Mean −60.5
Std Dev 0
pull1D
Entries 93
Mean −0.02242
Std Dev 0.9187

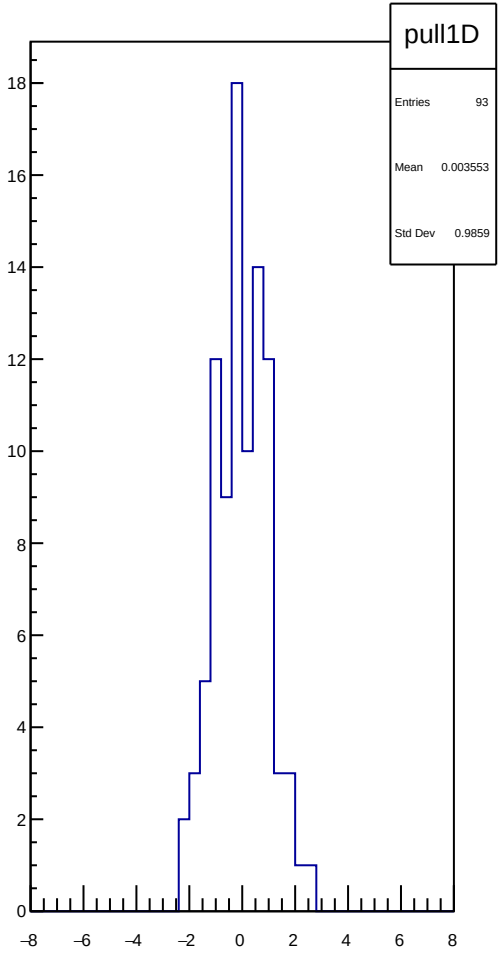

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.036e+04 / 92
p0 246.2 ± 0.1834
380
360
340
320
300
280
260
240
220
200
180

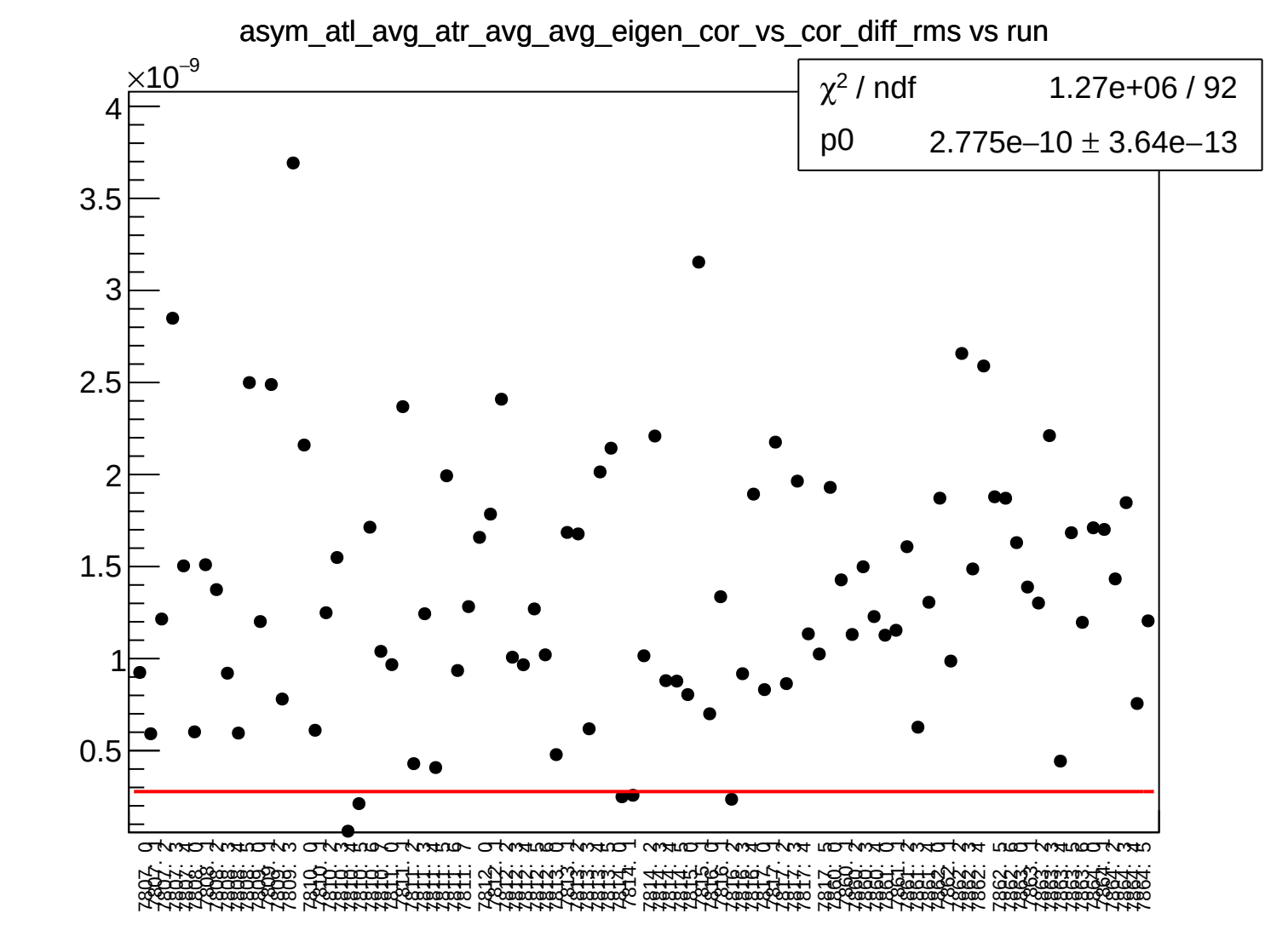

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.55 / 92
p0 0.1455 ± 0.2594
pull
Entries 93
Mean −60.5
Std Dev 0

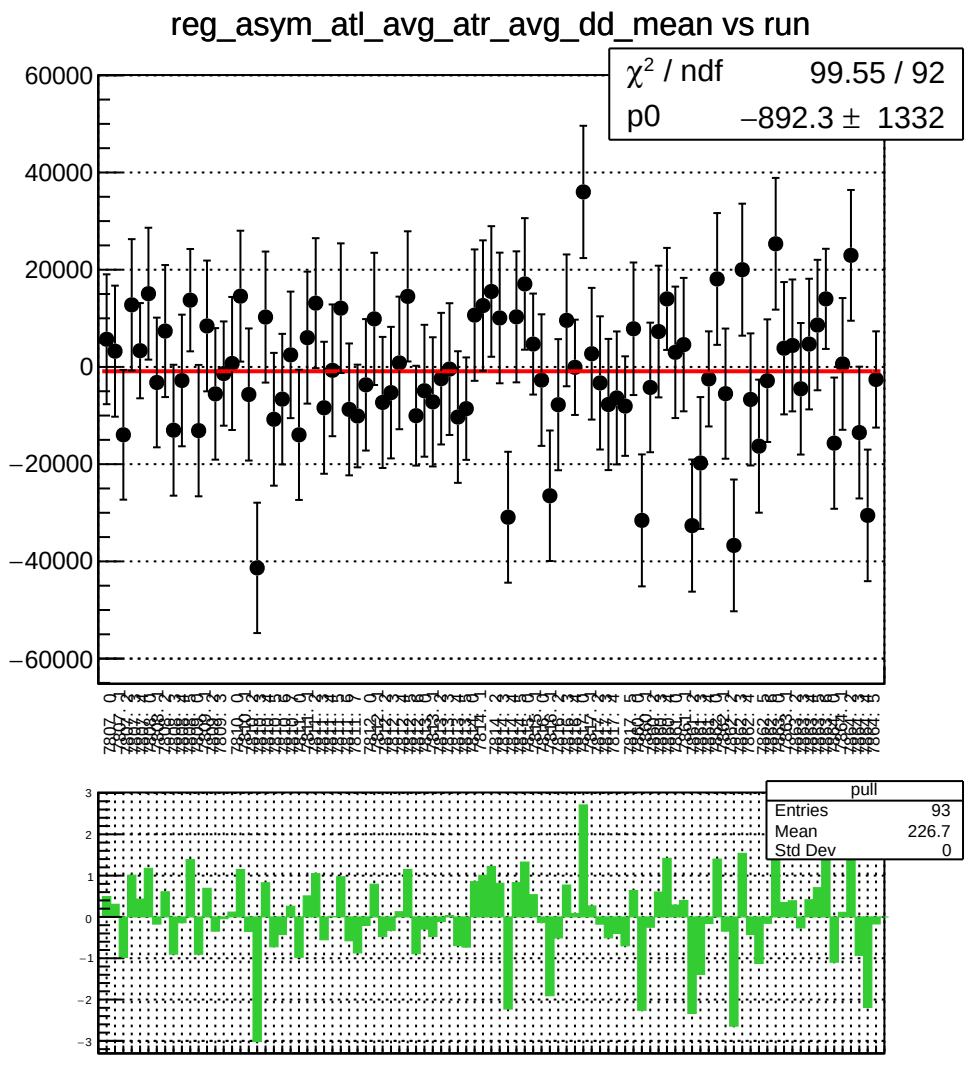

pull1D
Entries 93
Mean −0.02242
Std Dev 0.9187

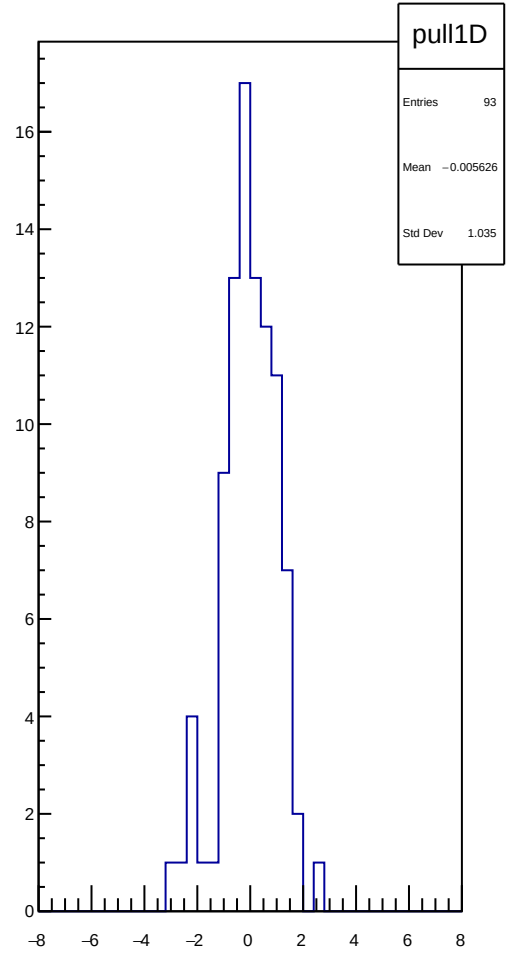

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.036e+04 / 92
p0 246.2 ± 0.1834
380
360
340
320
300
280
260
240
220
200
180

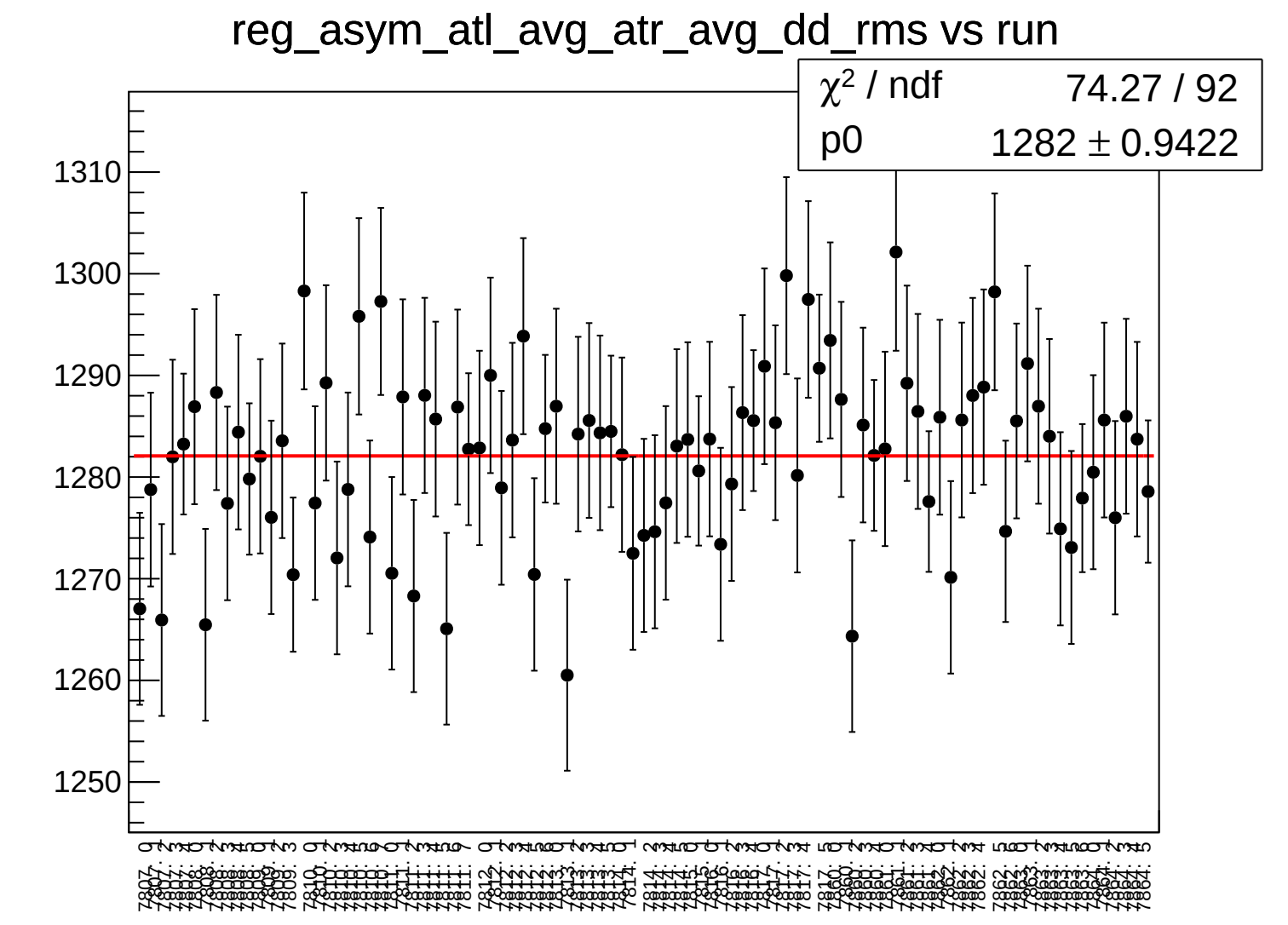

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.4 / 92
p0 3.466e−13 ± 5.148e−13
pull
Entries 93
Mean −840
Std Dev 0

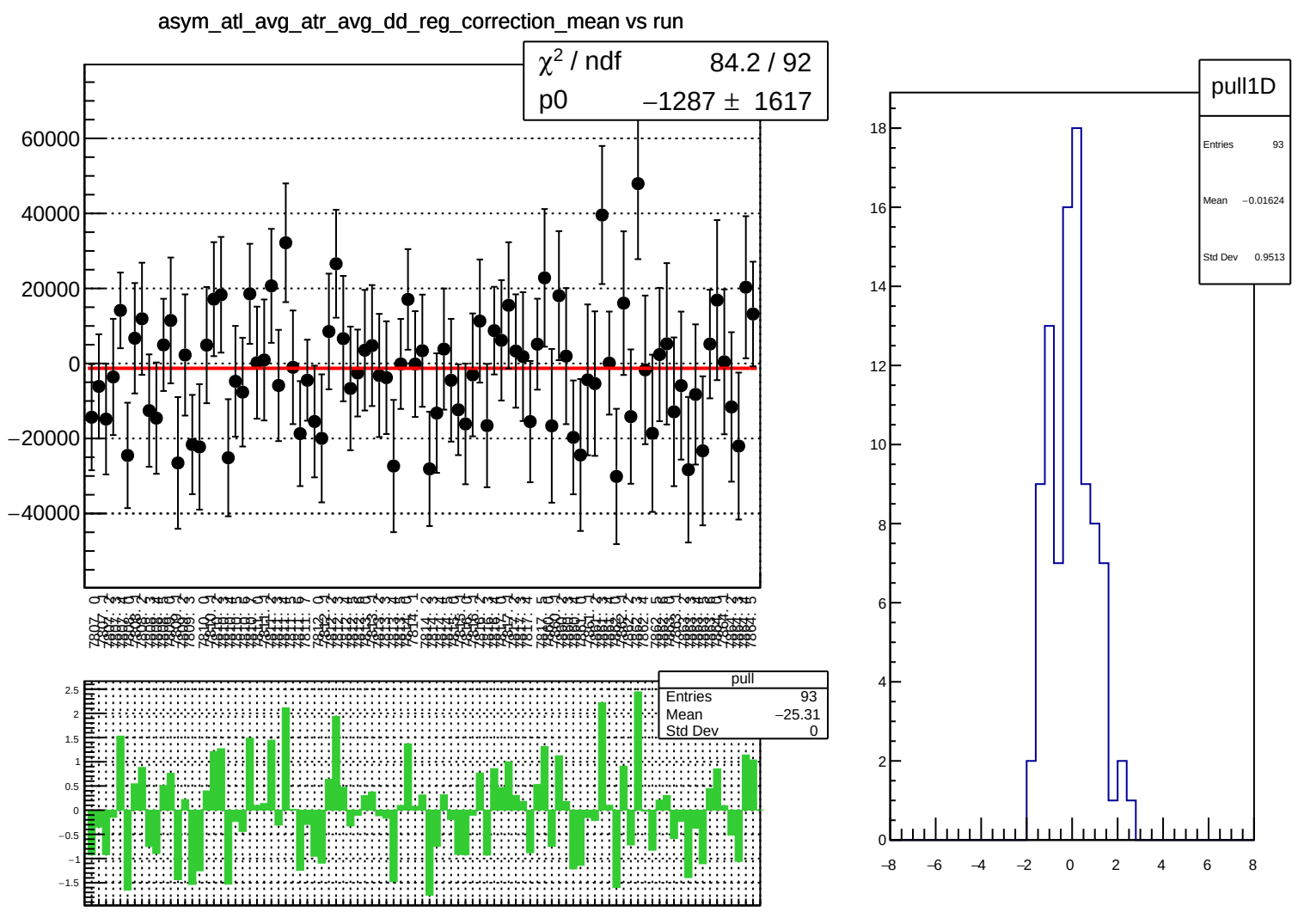

pull1D
Entries 93
Mean 0.003553
Std Dev 0.9859

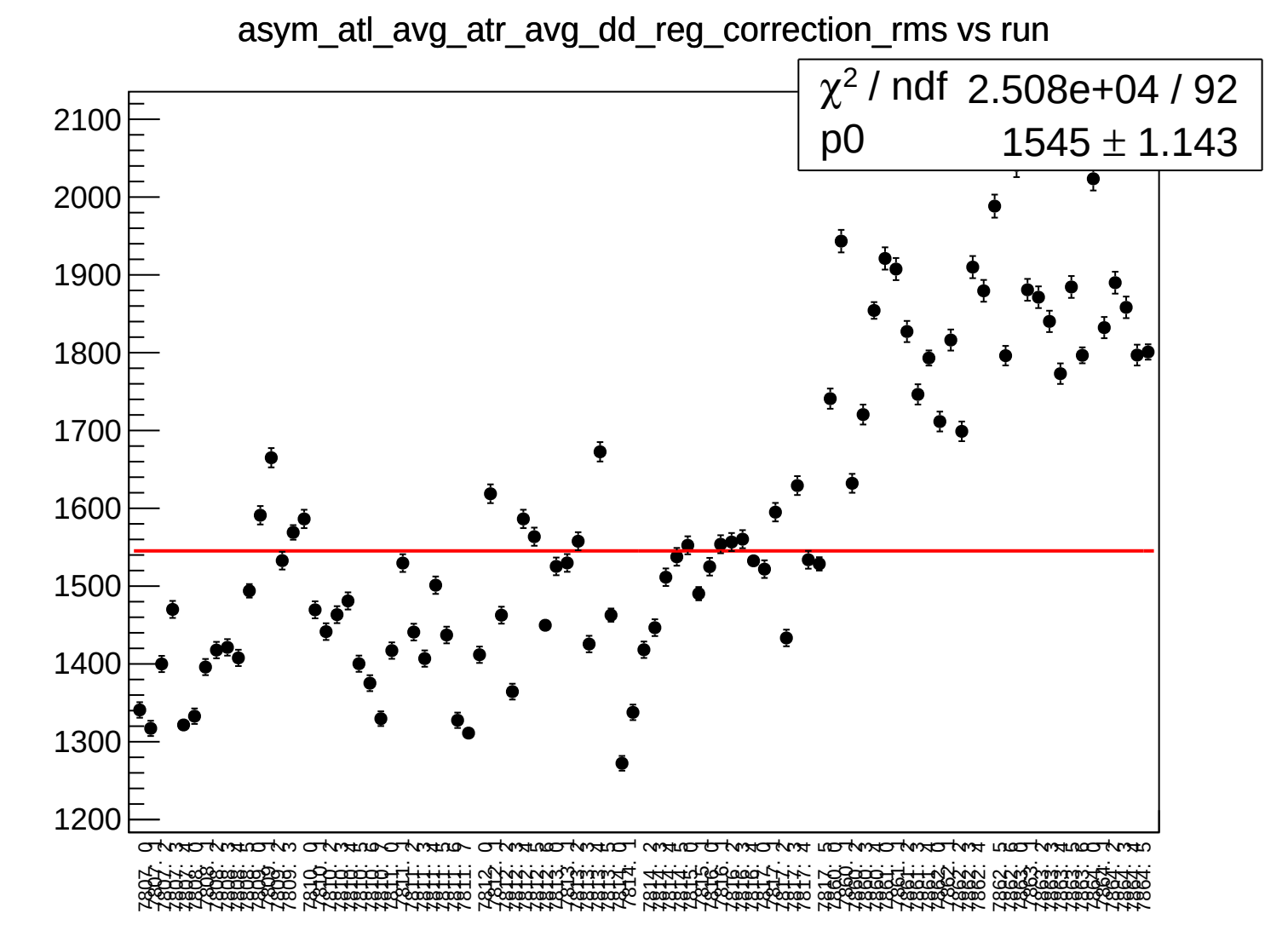

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.27e+06 / 92
p0 2.775e−10 ± 3.64e−13
4
3.5
3
2.5
2
1.5
1
0.5

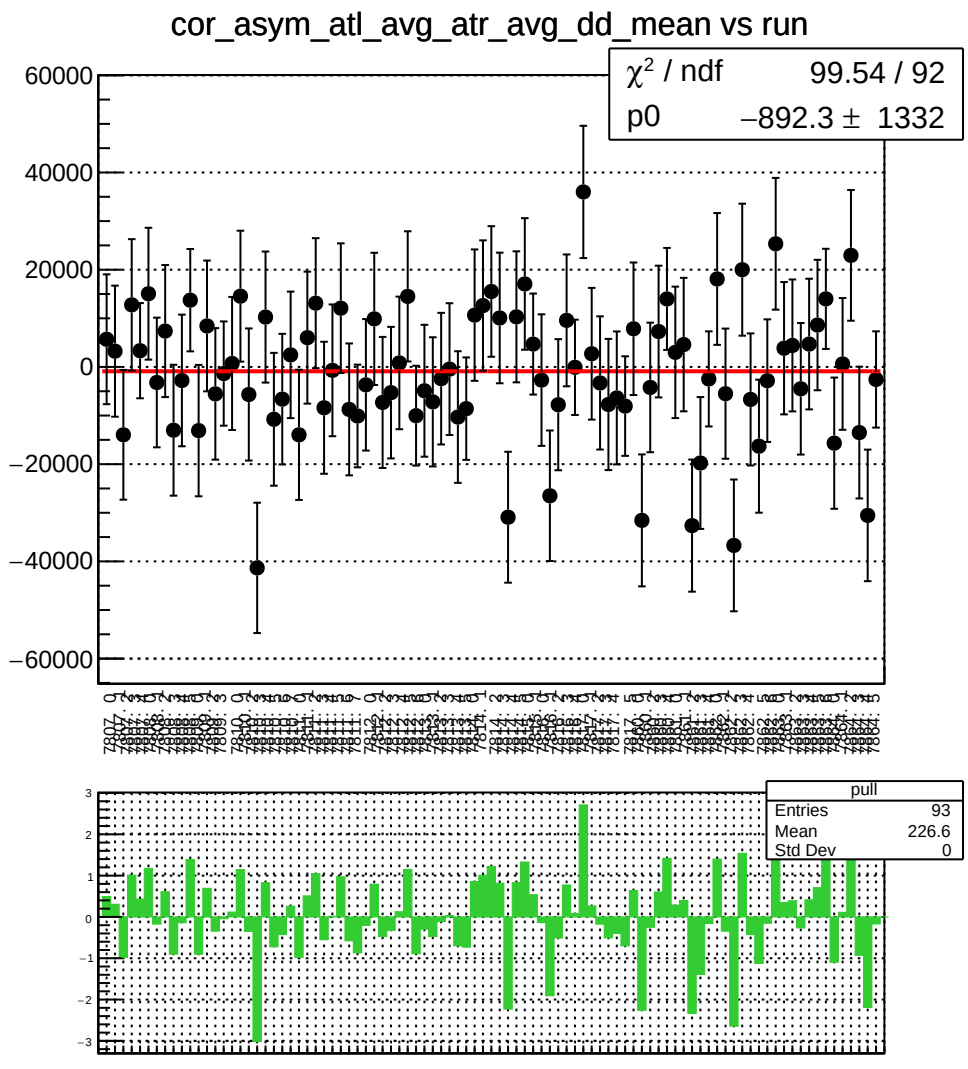

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 99.55 / 92
p0 −892.3 ± 1332
pull
Entries 93
Mean 226.7
Std Dev 0

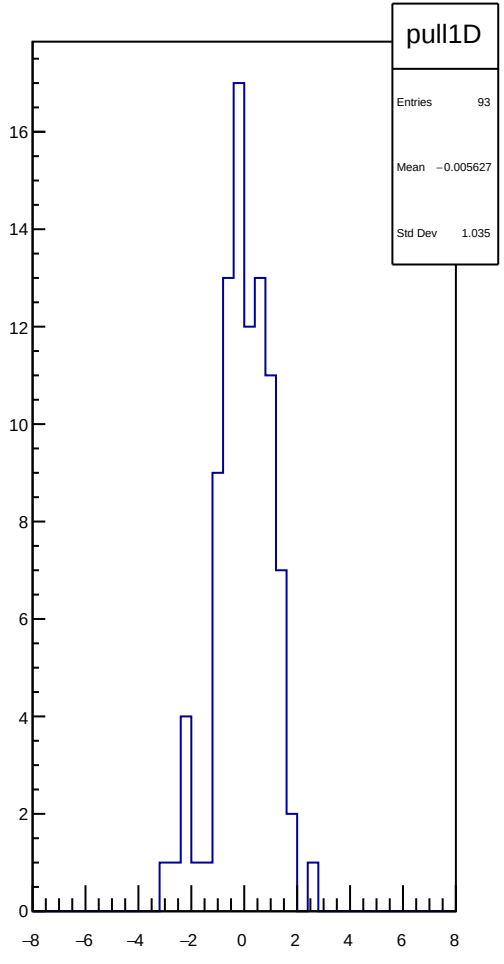

pull1D
Entries 93
Mean −0.005626
Std Dev 1.035

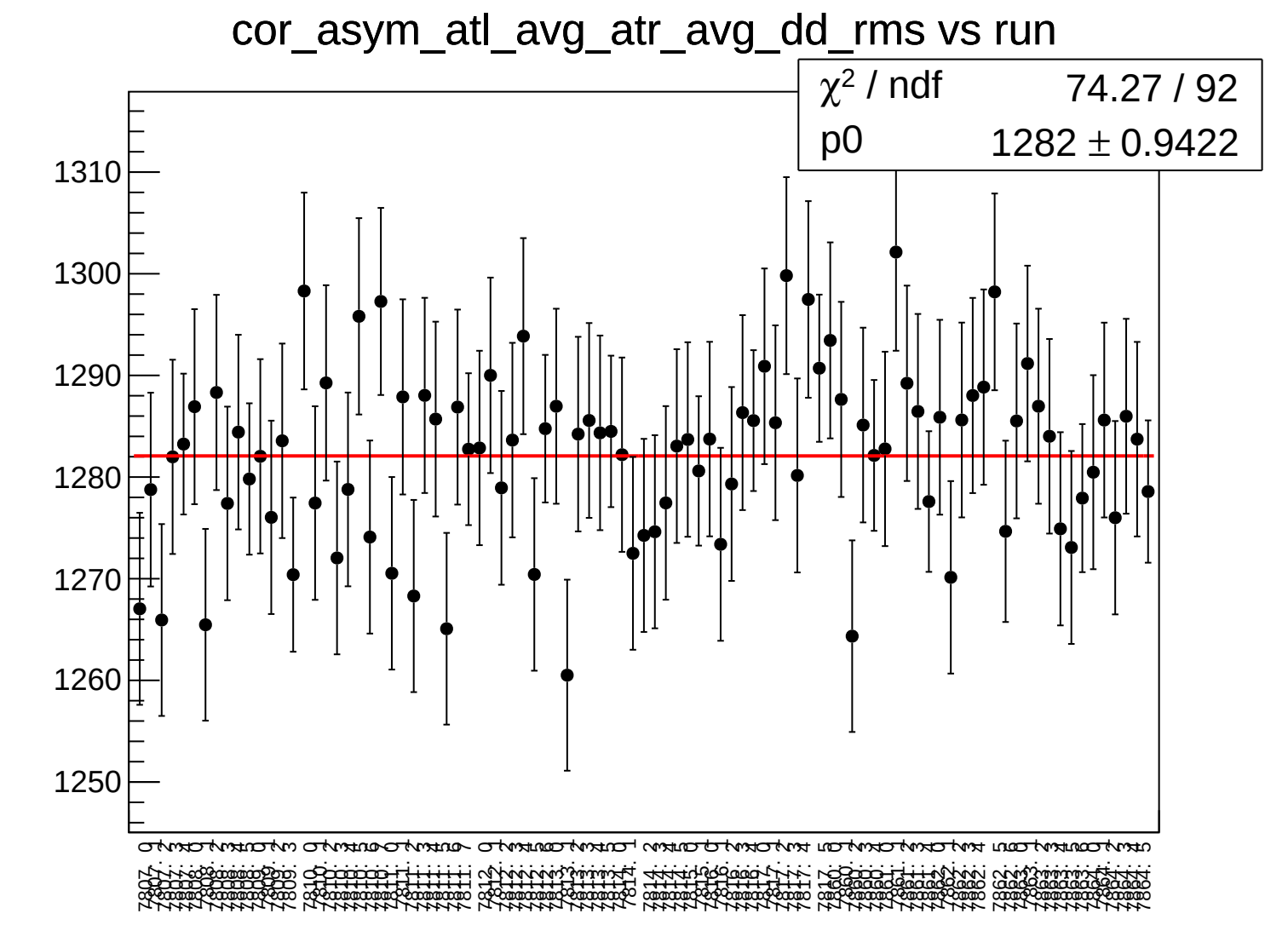

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 74.27 / 92
p0 1282 ± 0.9422
1310
1300
1290
1280
1270
1260
1250

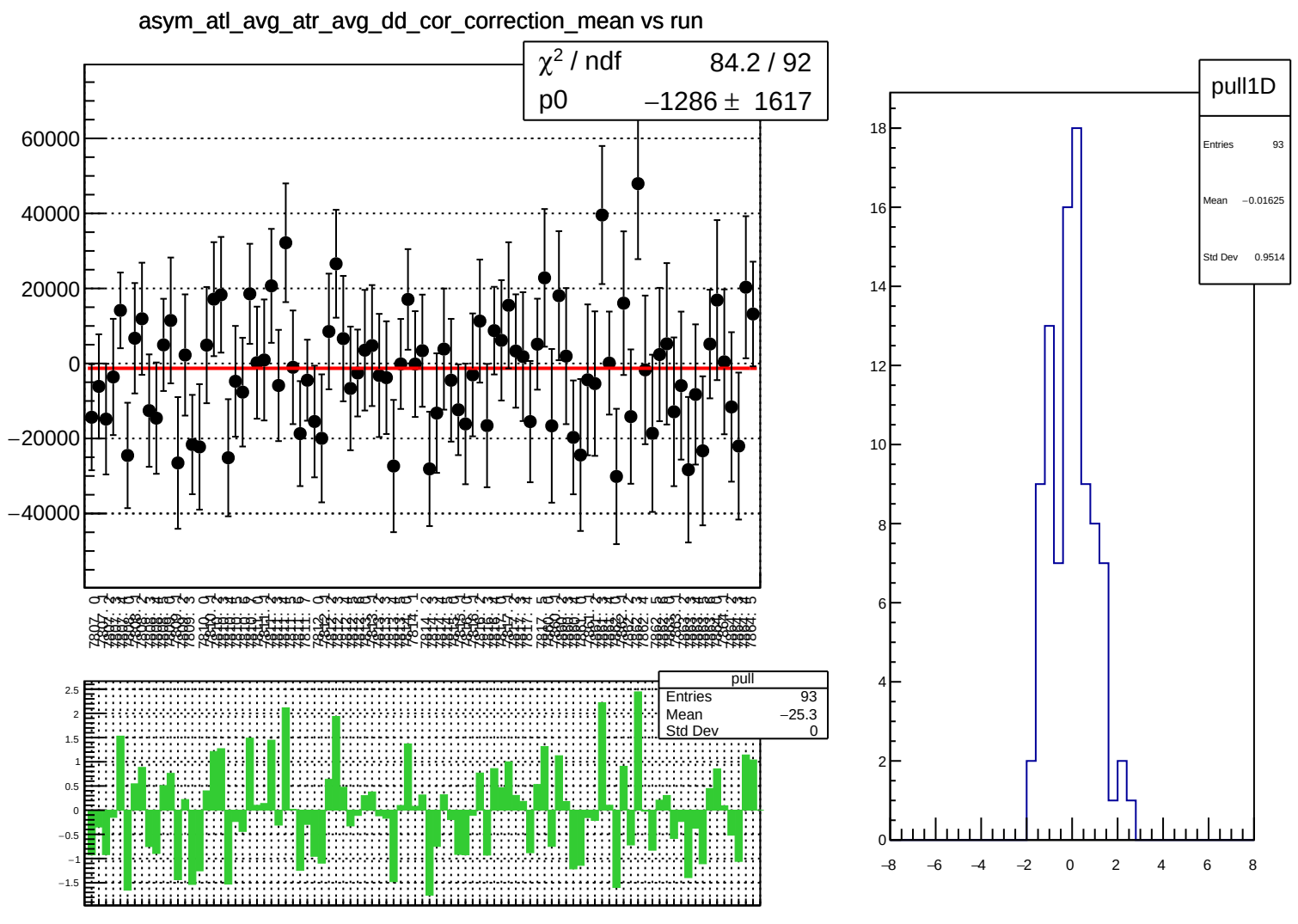

asym_atl_avg_atr_avg_dd_reg_correction_mean vs run
χ² / ndf 84.2 / 92
p0 −1287 ± 1617
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −25.31
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 93
Mean −0.01624
Std Dev 0.9513
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

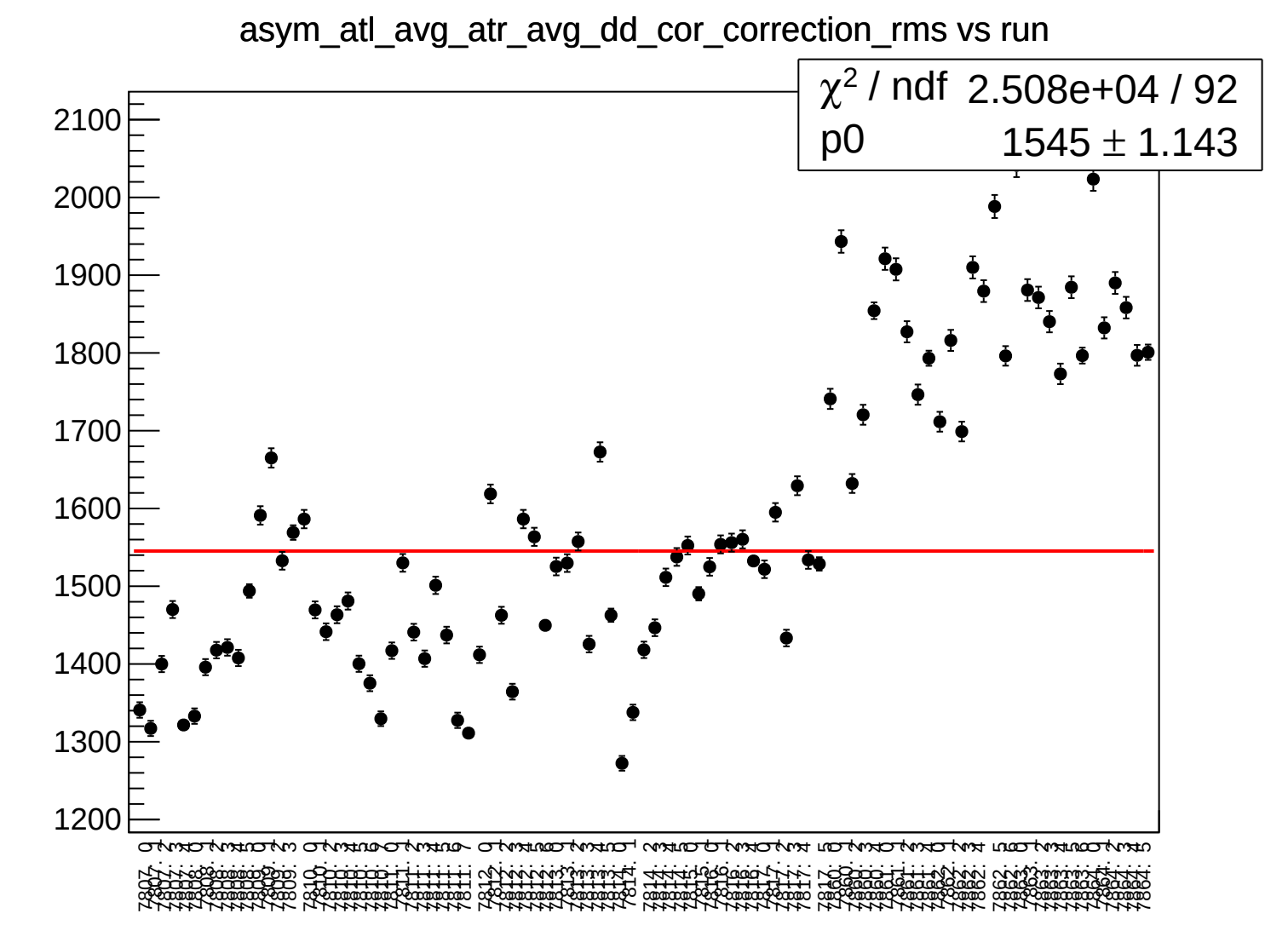

asym_atl_avg_atr_avg_dd_reg_correction_rms vs run
χ² / ndf 2.508e+04 / 92
p0 1545 ± 1.143
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200

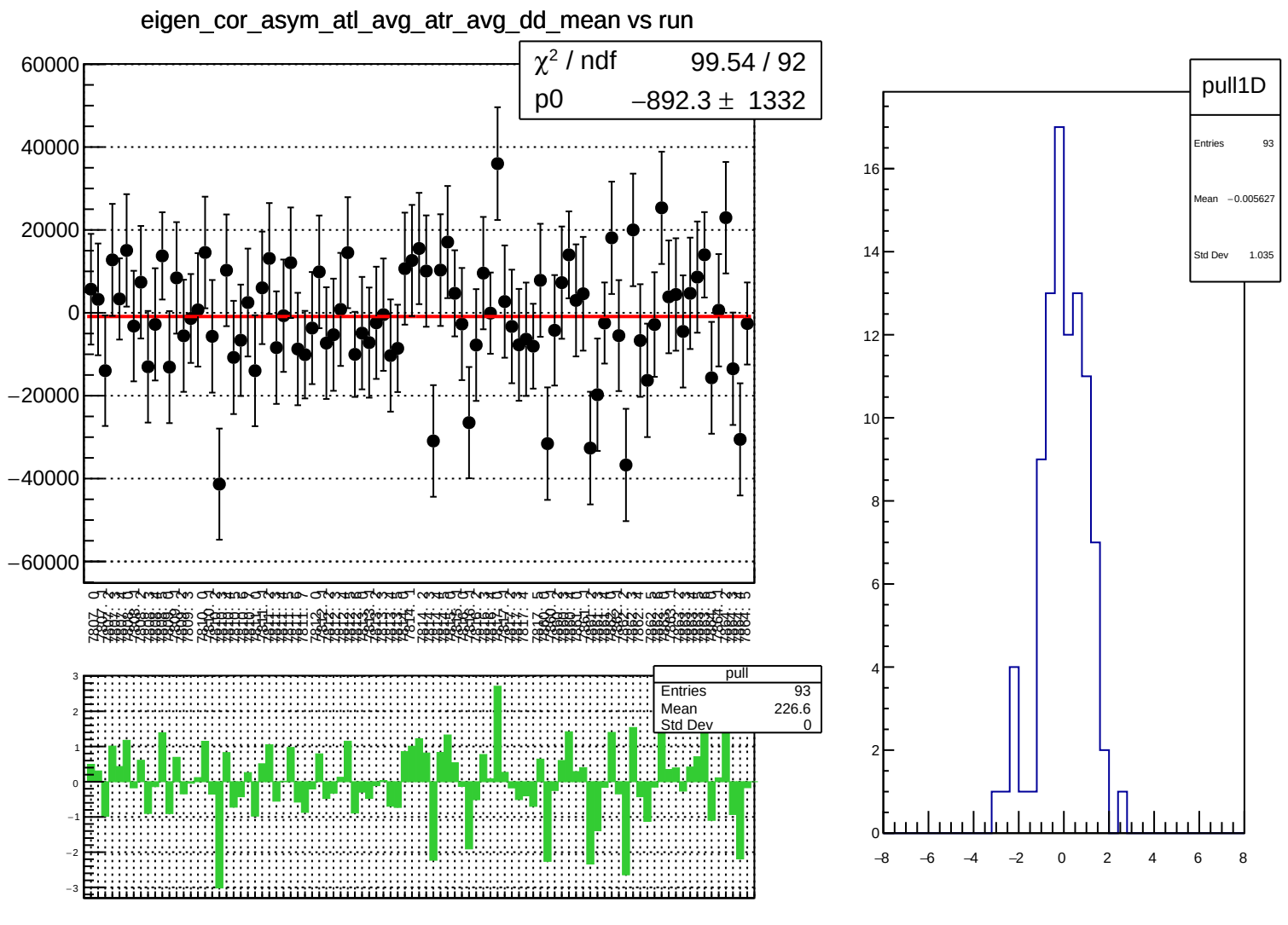

cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 99.54 / 92
p0 −892.3 ± 1332
pull
Entries 93
Mean 226.6
Std Dev 0

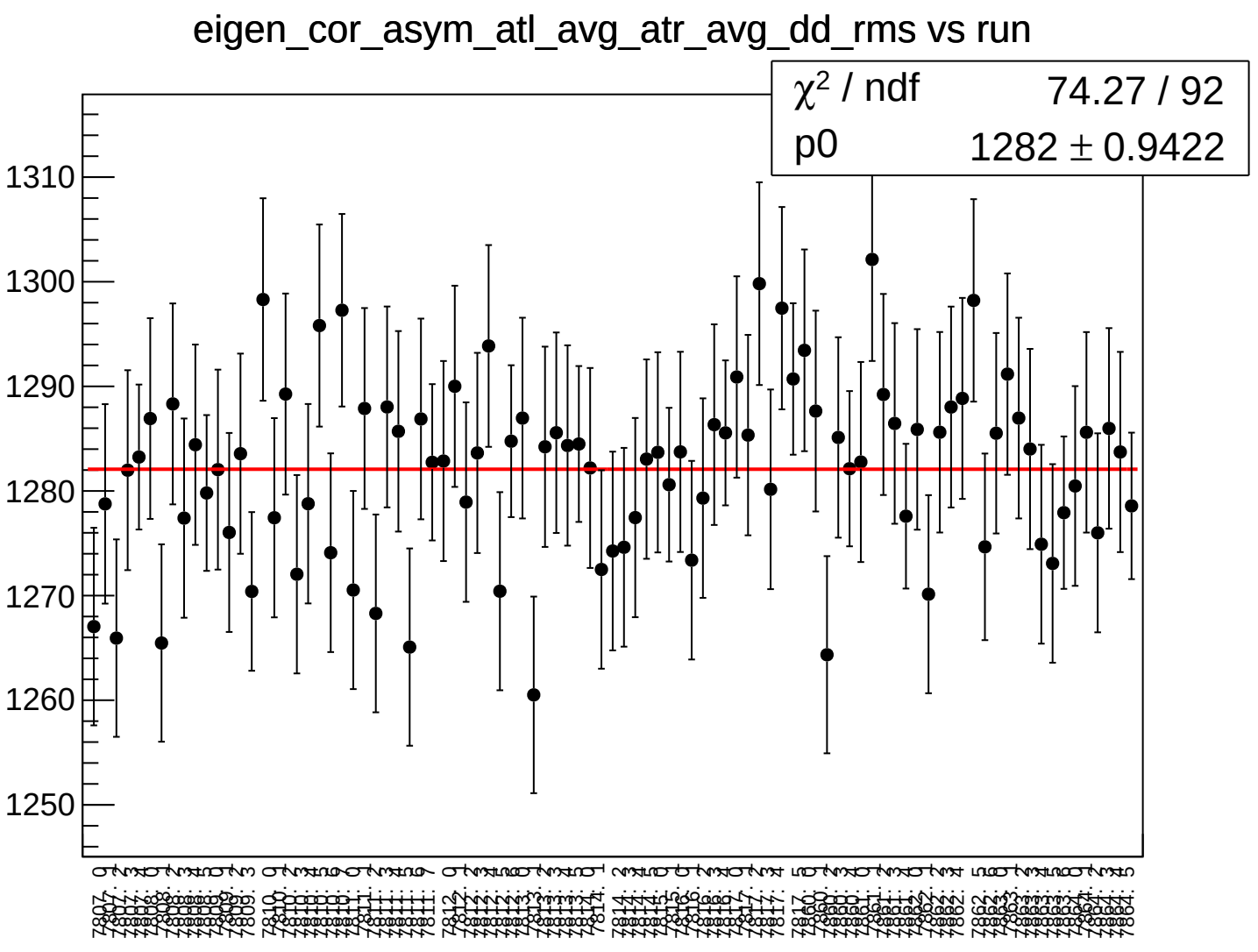

pull1D
Entries 93
Mean −0.005627
Std Dev 1.035

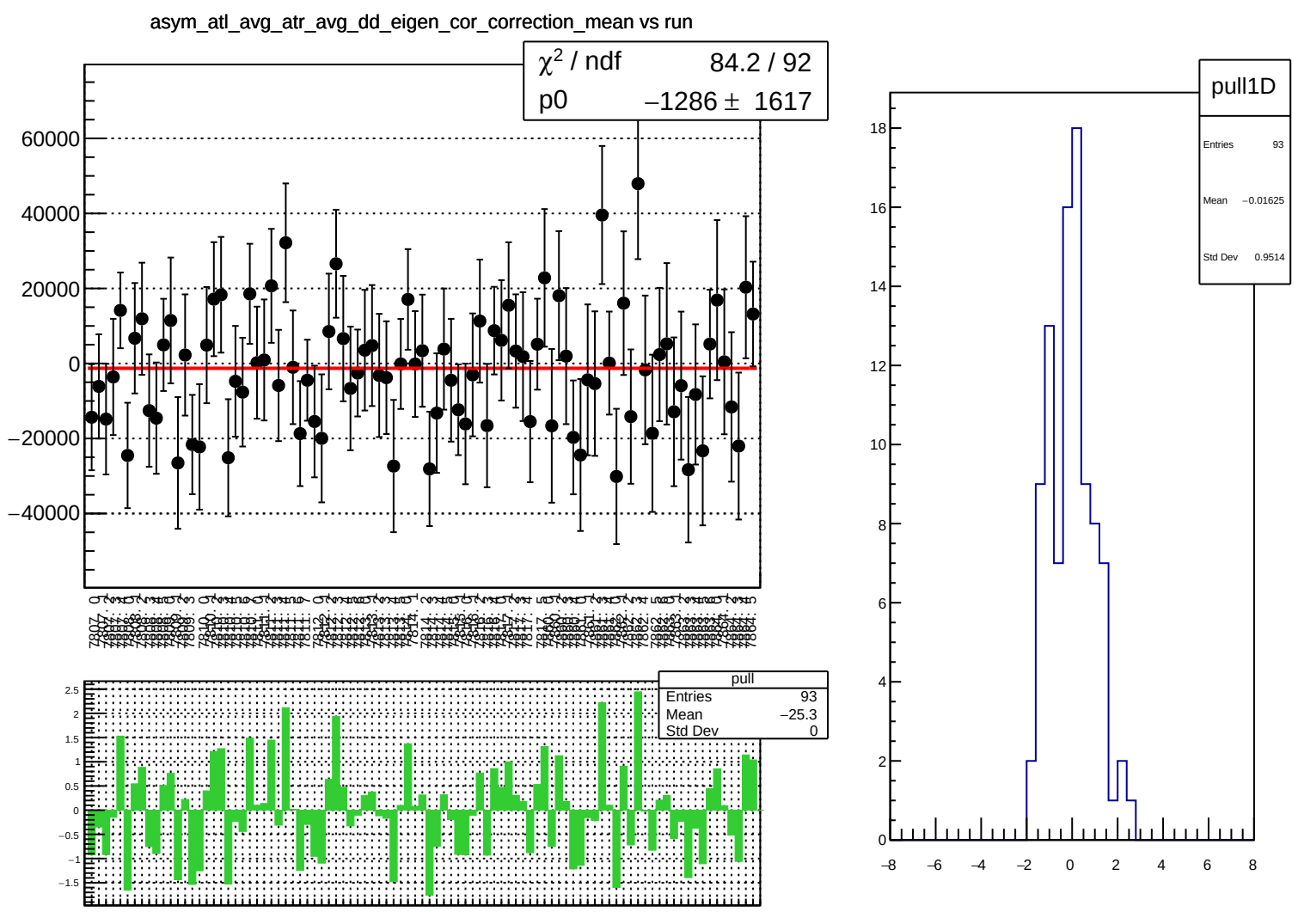

cor_asym_atl_avg_atr_avg_dd_rms vs run
χ^2 / ndf 74.27 / 92
p0 1282 ± 0.9422
1310
1300
1290
1280
1270
1260
1250

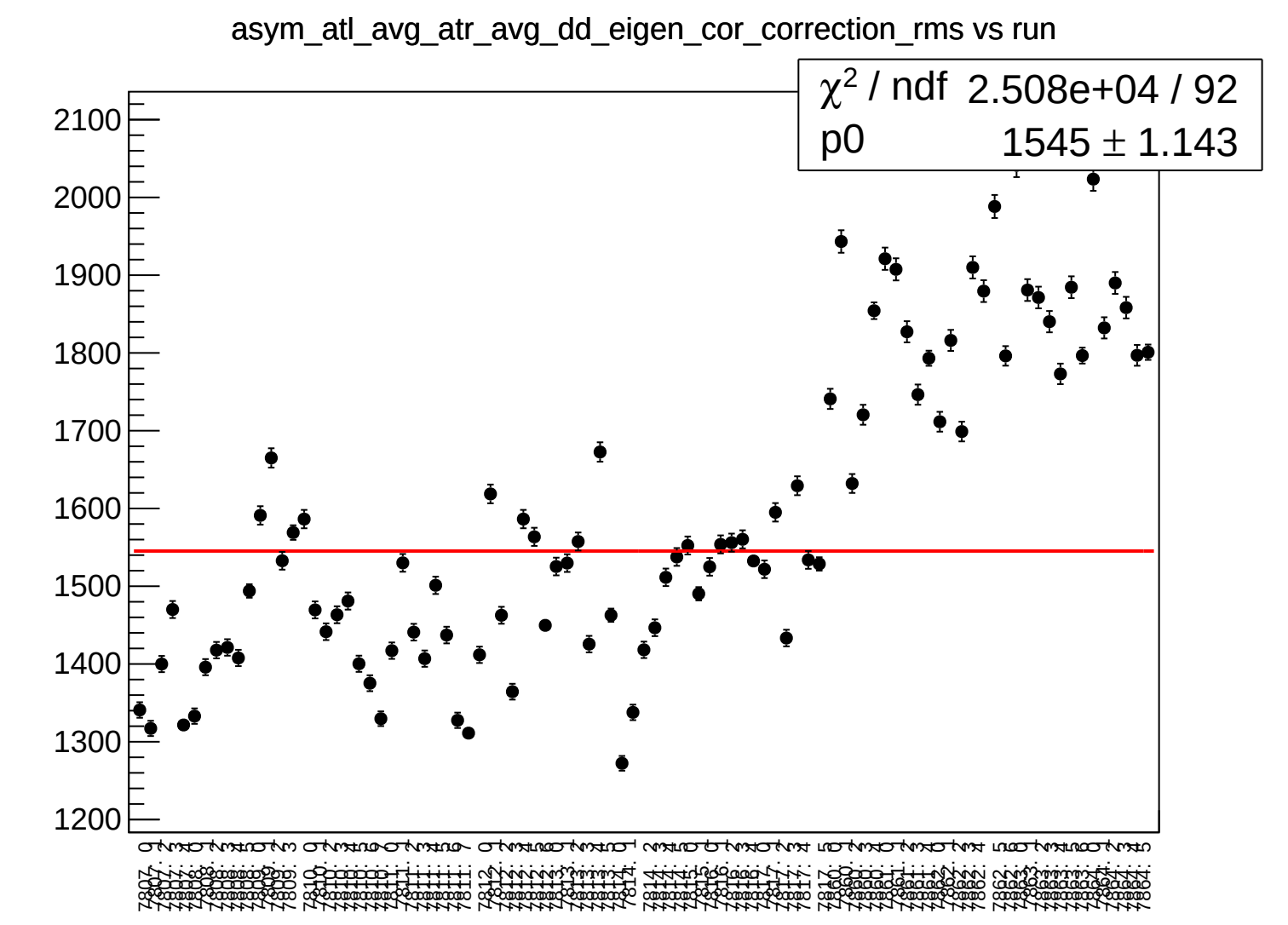

asym_atl_avg_atr_avg_dd_cor_correction_mean vs run
χ² / ndf 84.2 / 92
p0 −1286 ± 1617
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −25.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 93
Mean −0.01625
Std Dev 0.9514
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

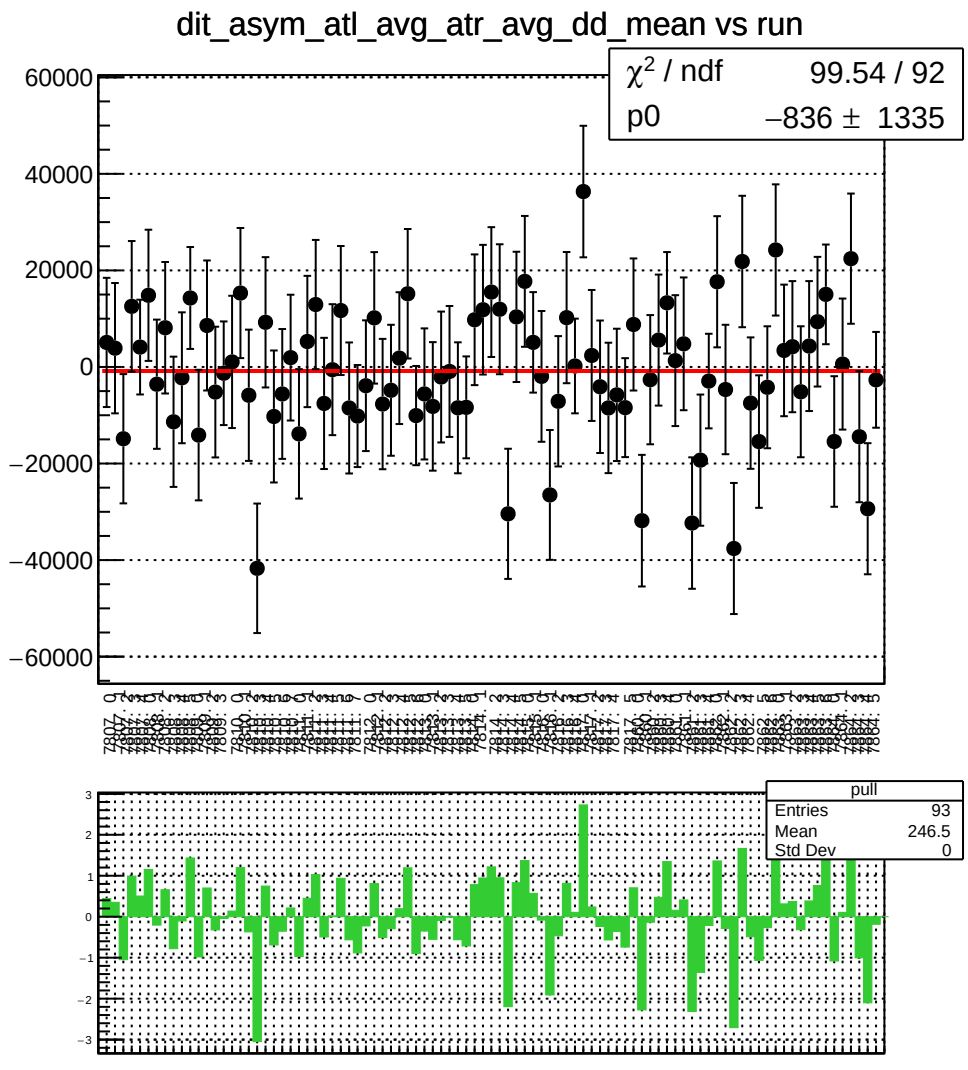

asym_atl_avg_atr_avg_dd_cor_correction_rms vs run
χ² / ndf 2.508e+04 / 92
p0 1545 ± 1.143
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200

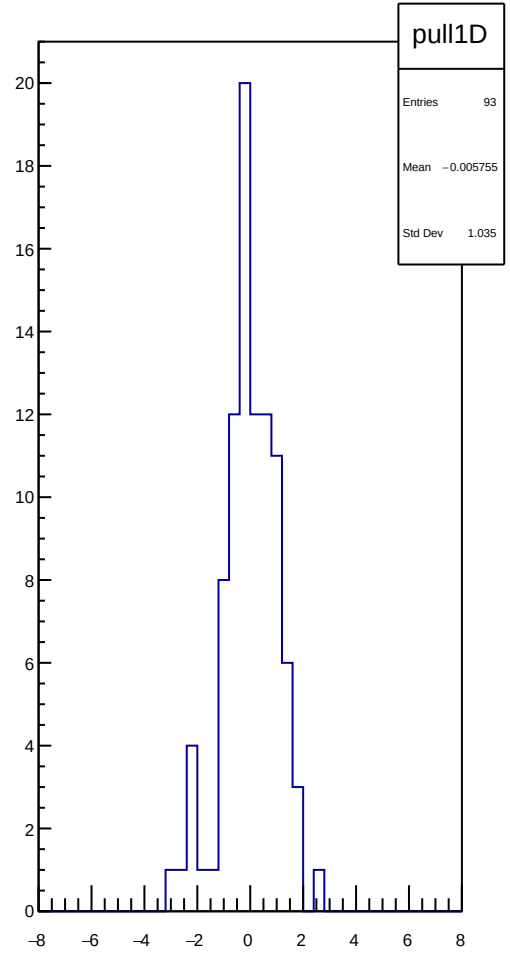

eigen_cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 99.54 / 92
p0 −892.3 ± 1332
pull
Entries 93
Mean 226.6
Std Dev 0
pull1D
Entries 93
Mean −0.005627
Std Dev 1.035

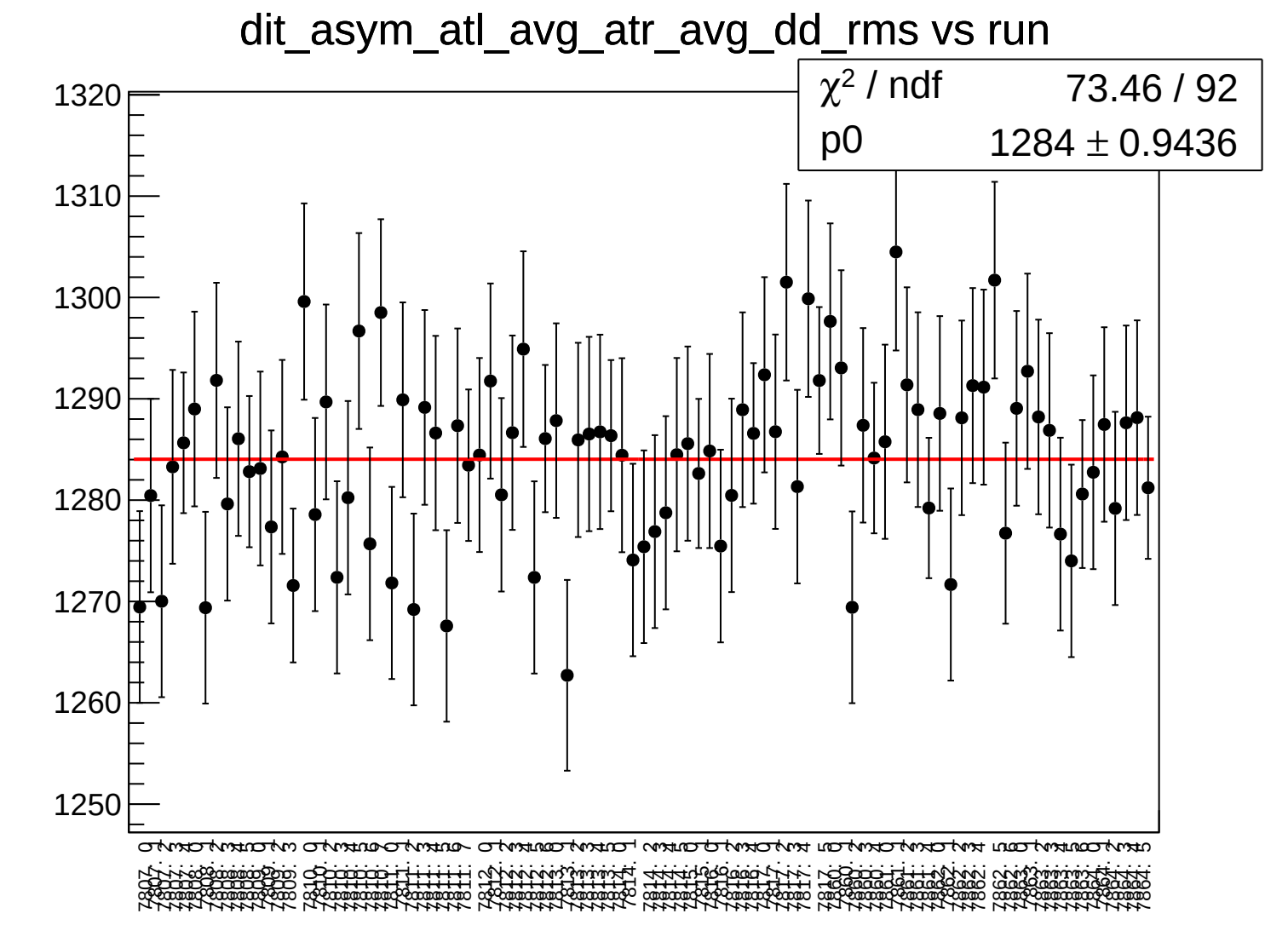

eigen_cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 74.27 / 92
p0 1282 ± 0.9422
1310
1300
1290
1280
1270
1260
1250

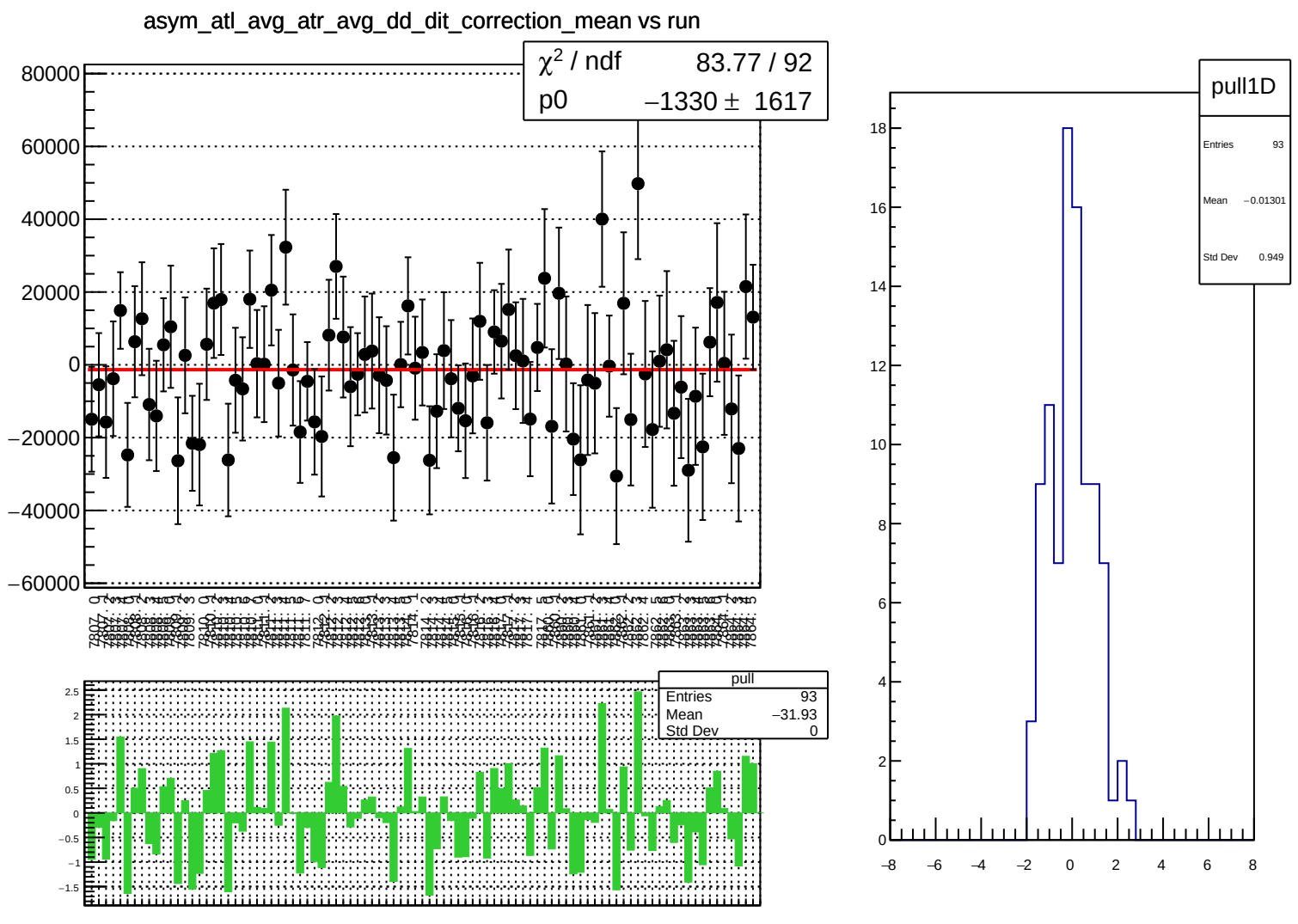

asym_atl_avg_atr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 84.2 / 92
p0 −1286 ± 1617
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −25.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 93
Mean −0.01625
Std Dev 0.9514
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

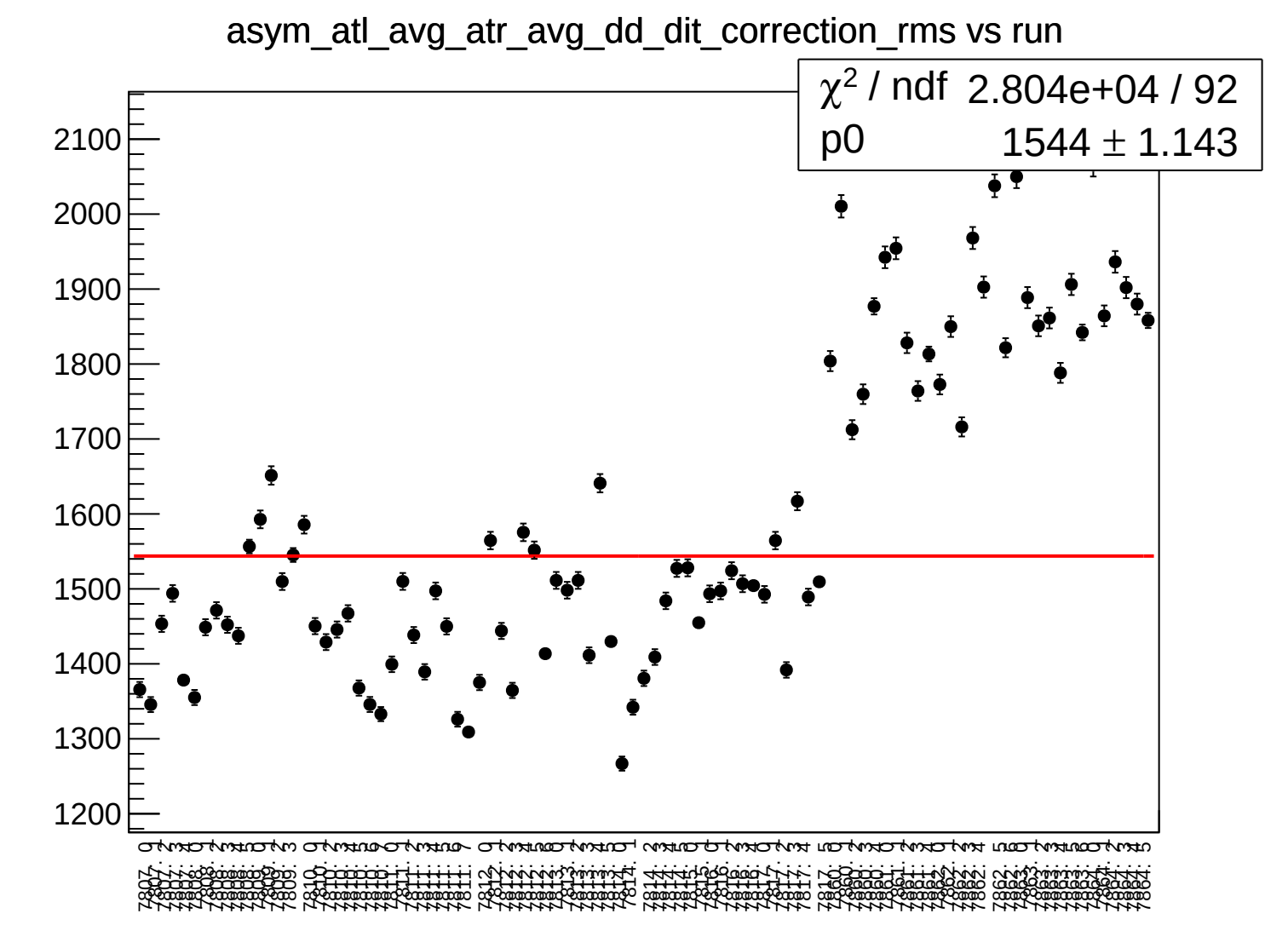

asym_atl_avg_atr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.508e+04 / 92
p0 1545 ± 1.143
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200

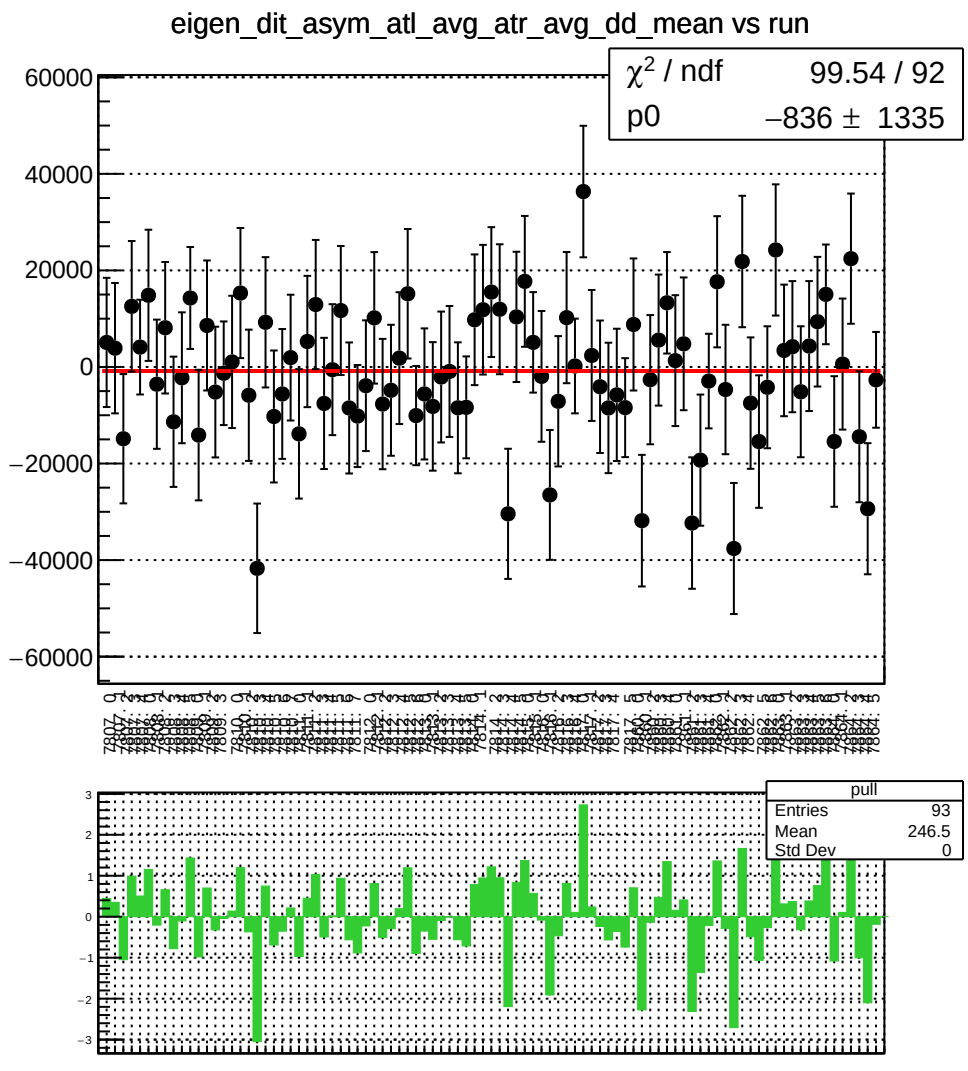

dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 99.54 / 92
p0 −836 ± 1335
pull
Entries 93
Mean 246.5
Std Dev 0

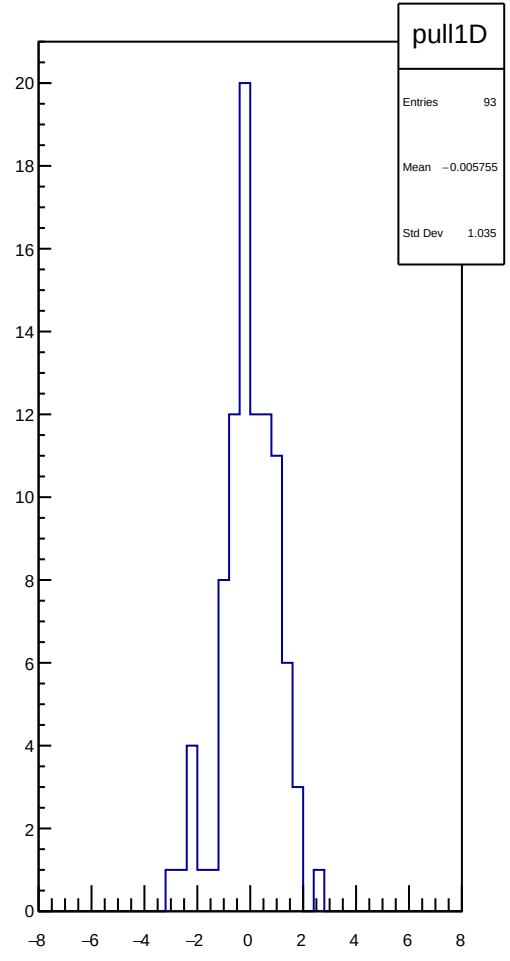

pull1D
Entries 93
Mean −0.005755
Std Dev 1.035

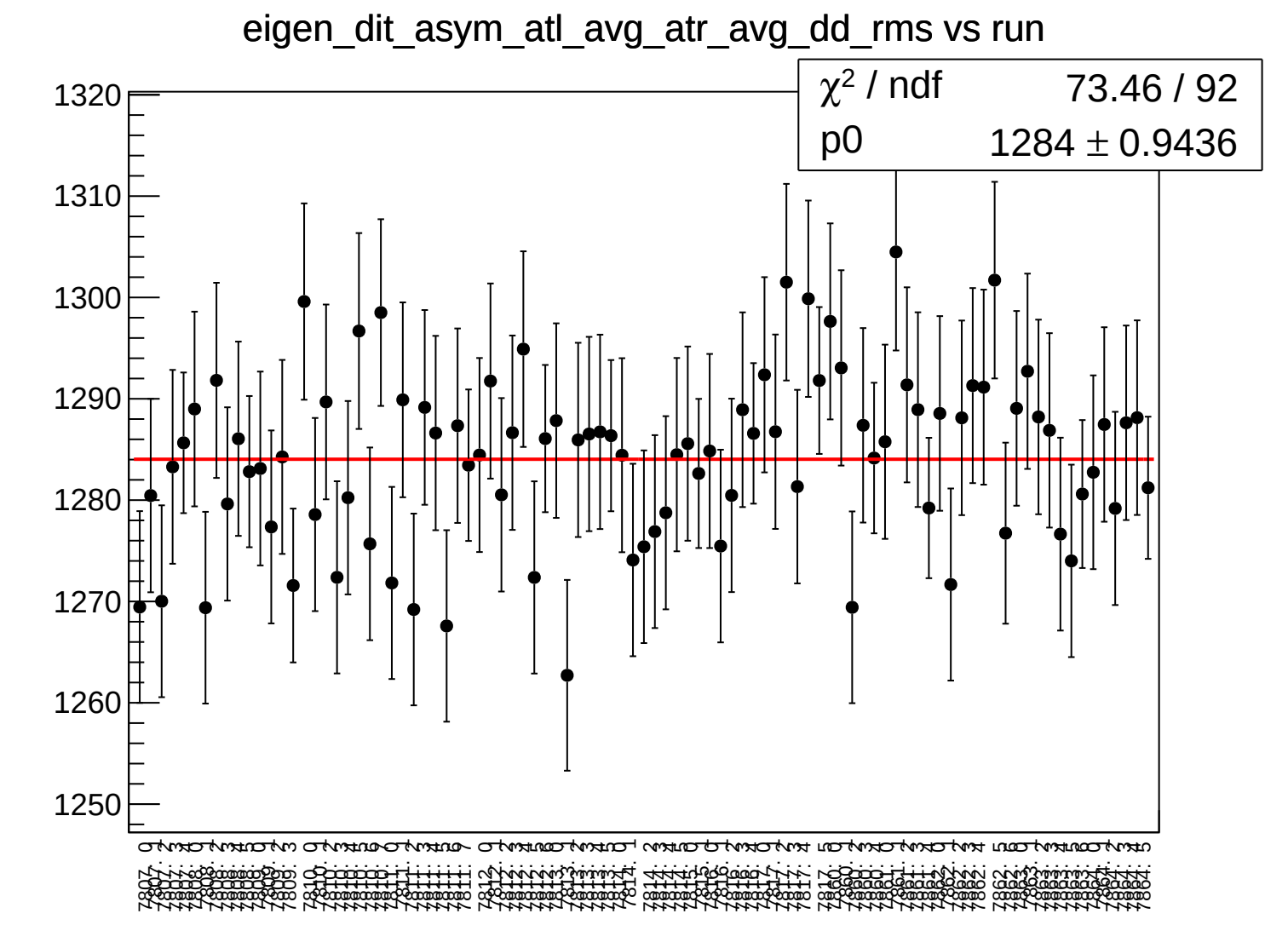

dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 73.46 / 92
p0 1284 ± 0.9436
1320
1310
1300
1290
1280
1270
1260
1250

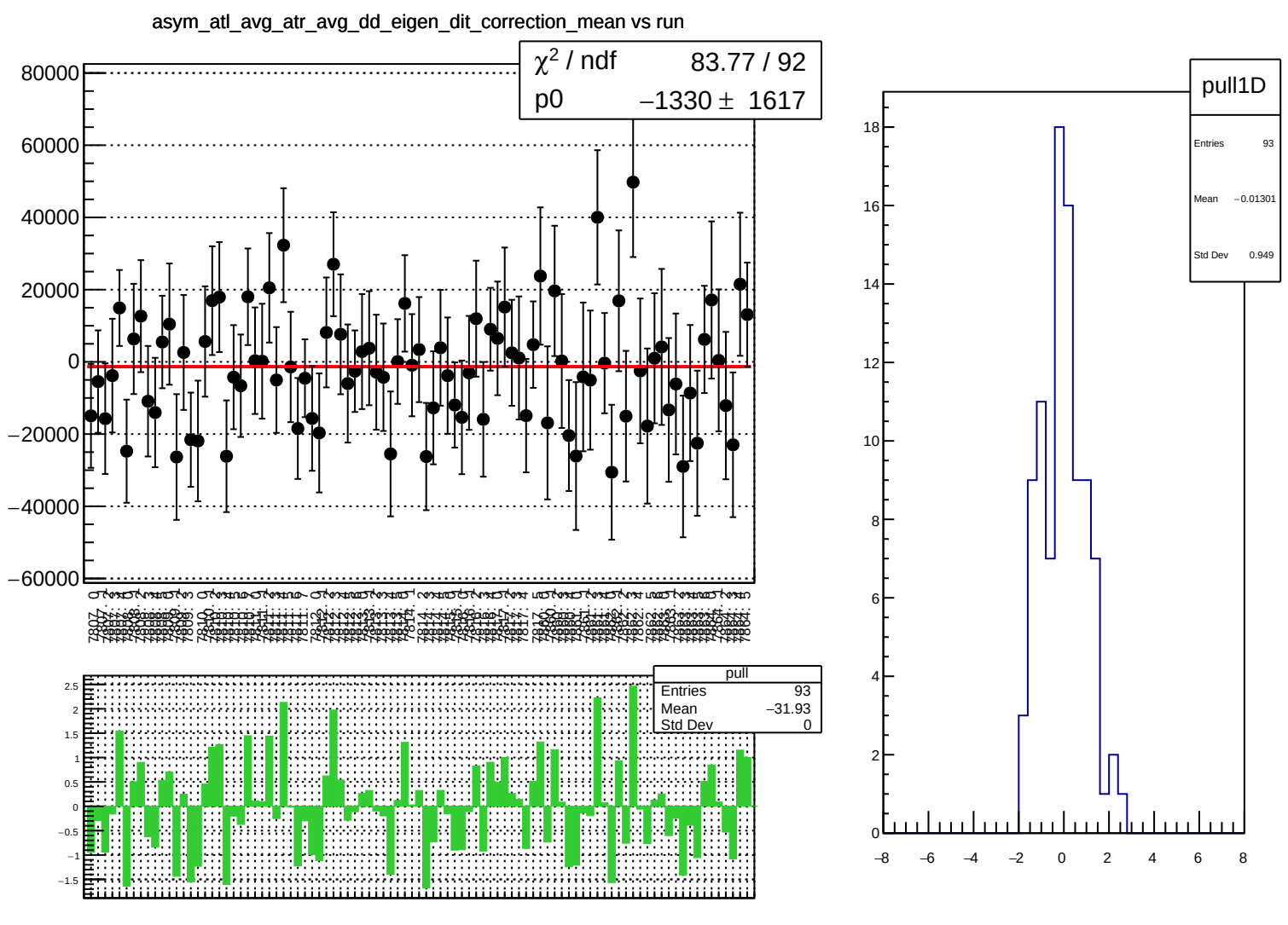

asym_atl_avg_atr_avg_dd_dit_correction_mean vs run
χ² / ndf 83.77 / 92
p0 −1330 ± 1617
pull
Entries 93
Mean −31.93
Std Dev 0
pull1D
Entries 93
Mean −0.01301
Std Dev 0.949

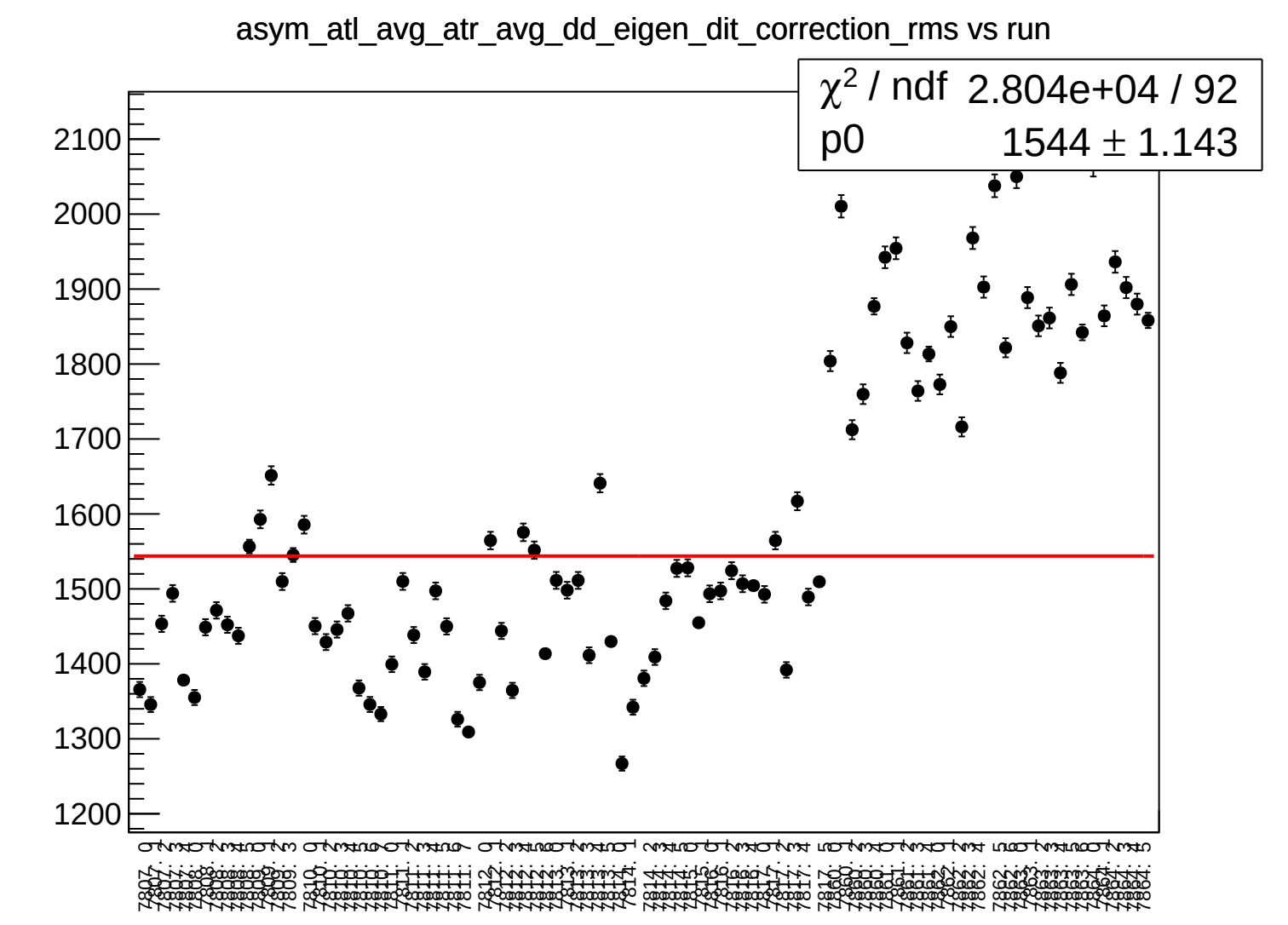

asym_atl_avg_atr_avg_dd_dit_correction_rms vs run
χ² / ndf 2.804e+04 / 92
p0 1544 ± 1.143
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200

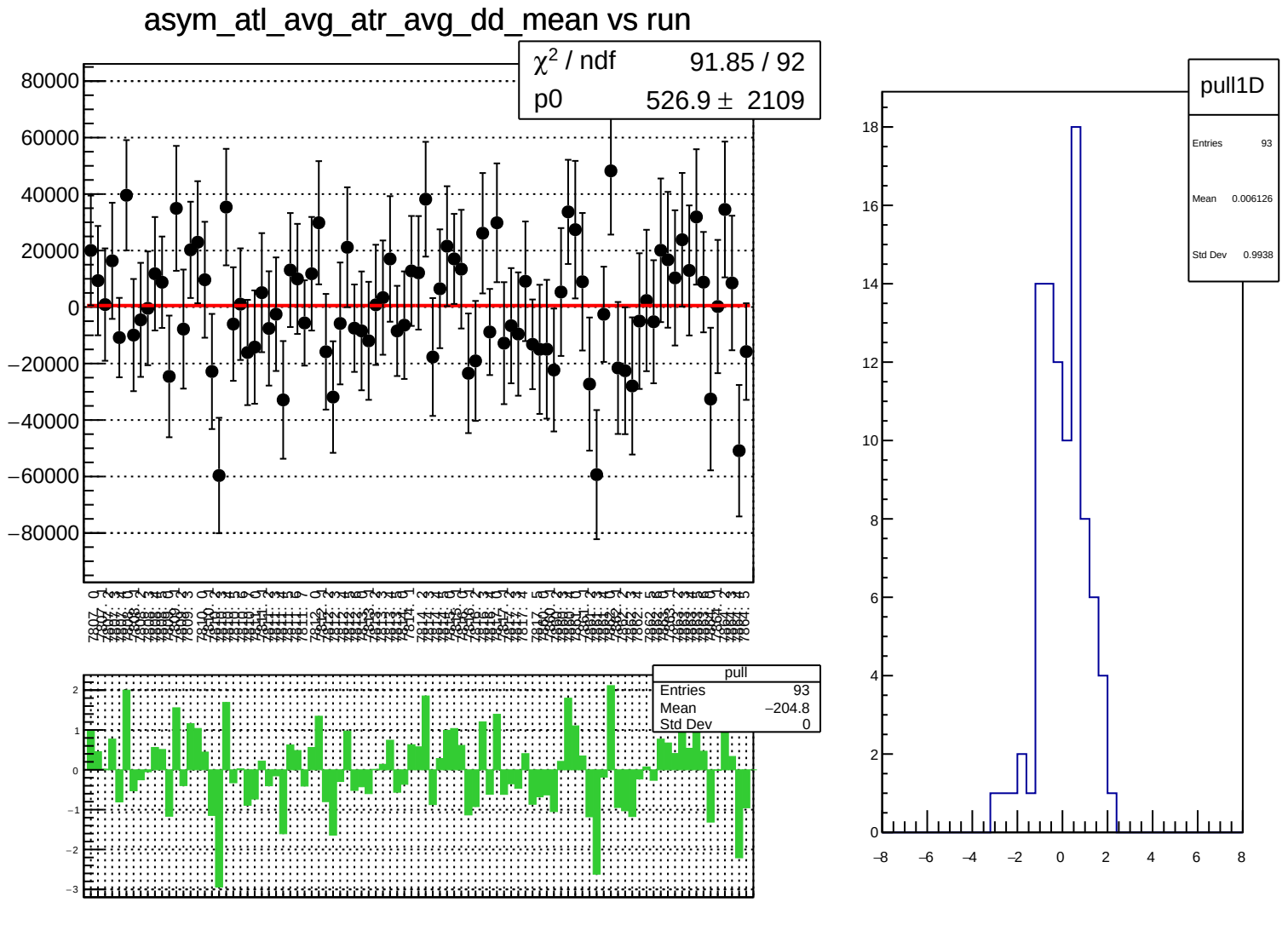

eigen_dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 99.54 / 92
p0 −836 ± 1335
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 246.5
Std Dev 0
3
2
1
0
−1
−2
−3

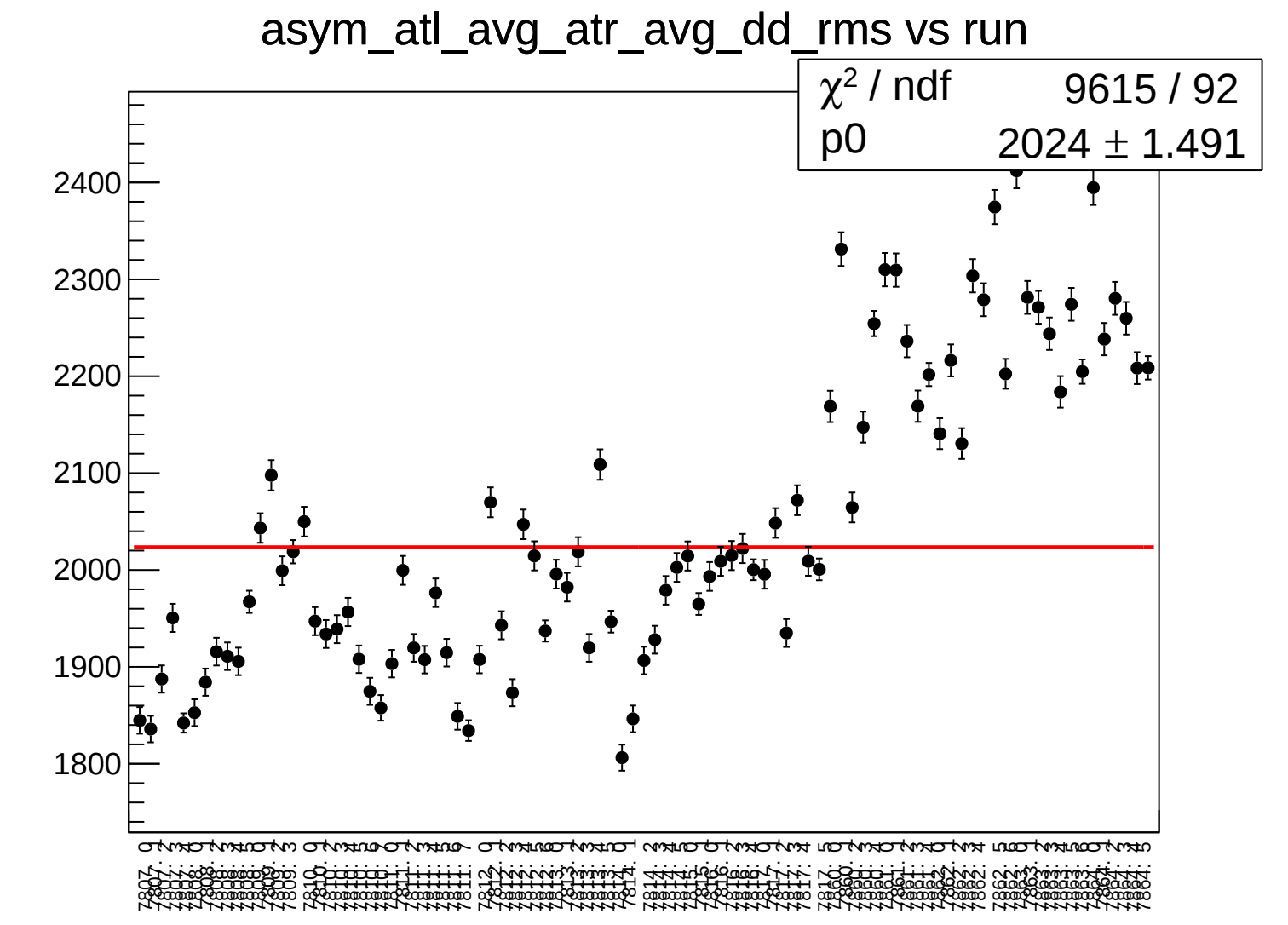

pull1D
Entries 93
Mean −0.005755
Std Dev 1.035
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

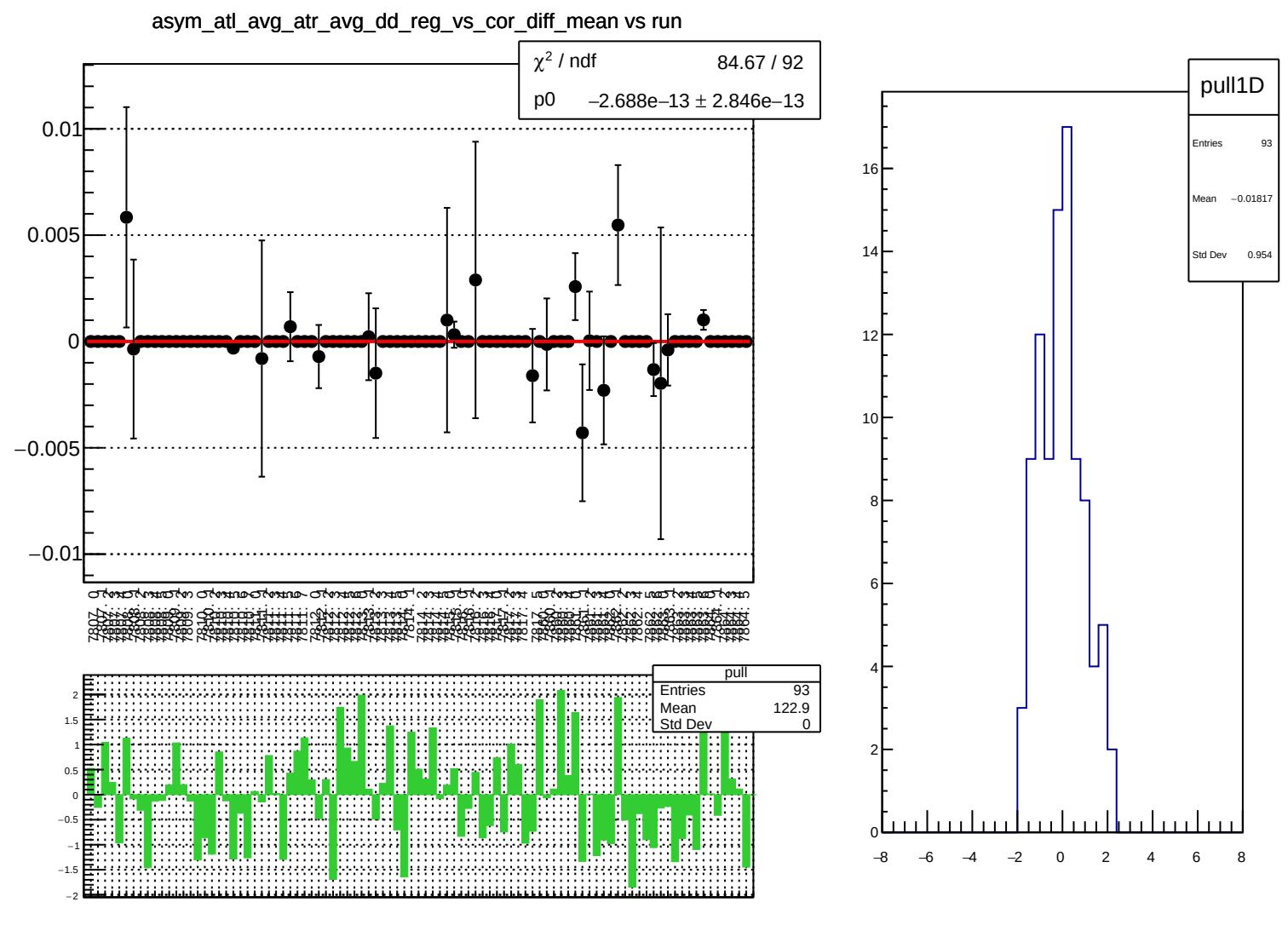

eigen_dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 73.46 / 92
p0 1284 ± 0.9436
1320
1310
1300
1290
1280
1270
1260
1250

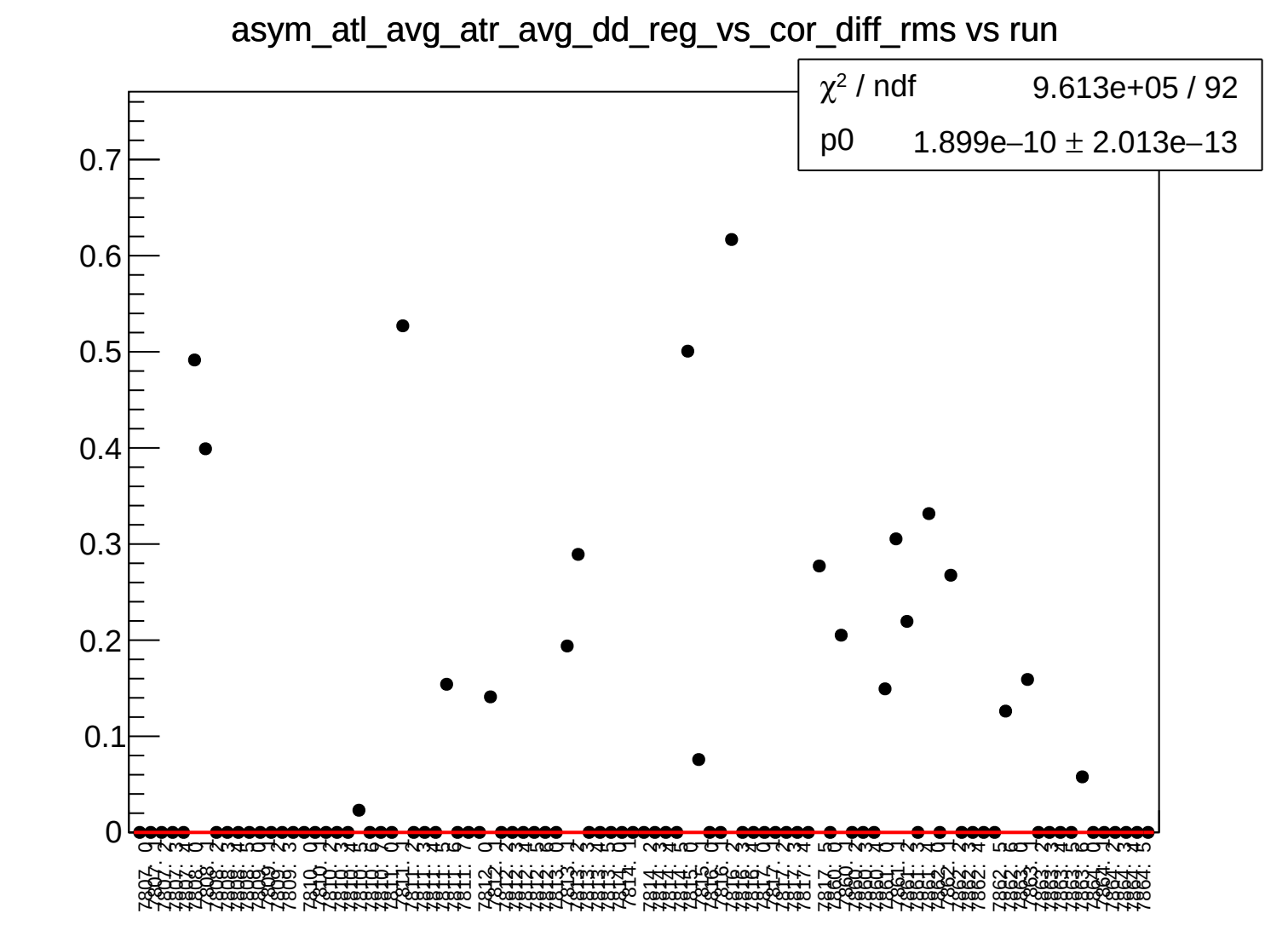

asym_atl_avg_atr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 83.77 / 92
p0 −1330 ± 1617
pull
Entries 93
Mean −31.93
Std Dev 0
pull1D
Entries 93
Mean −0.01301
Std Dev 0.949

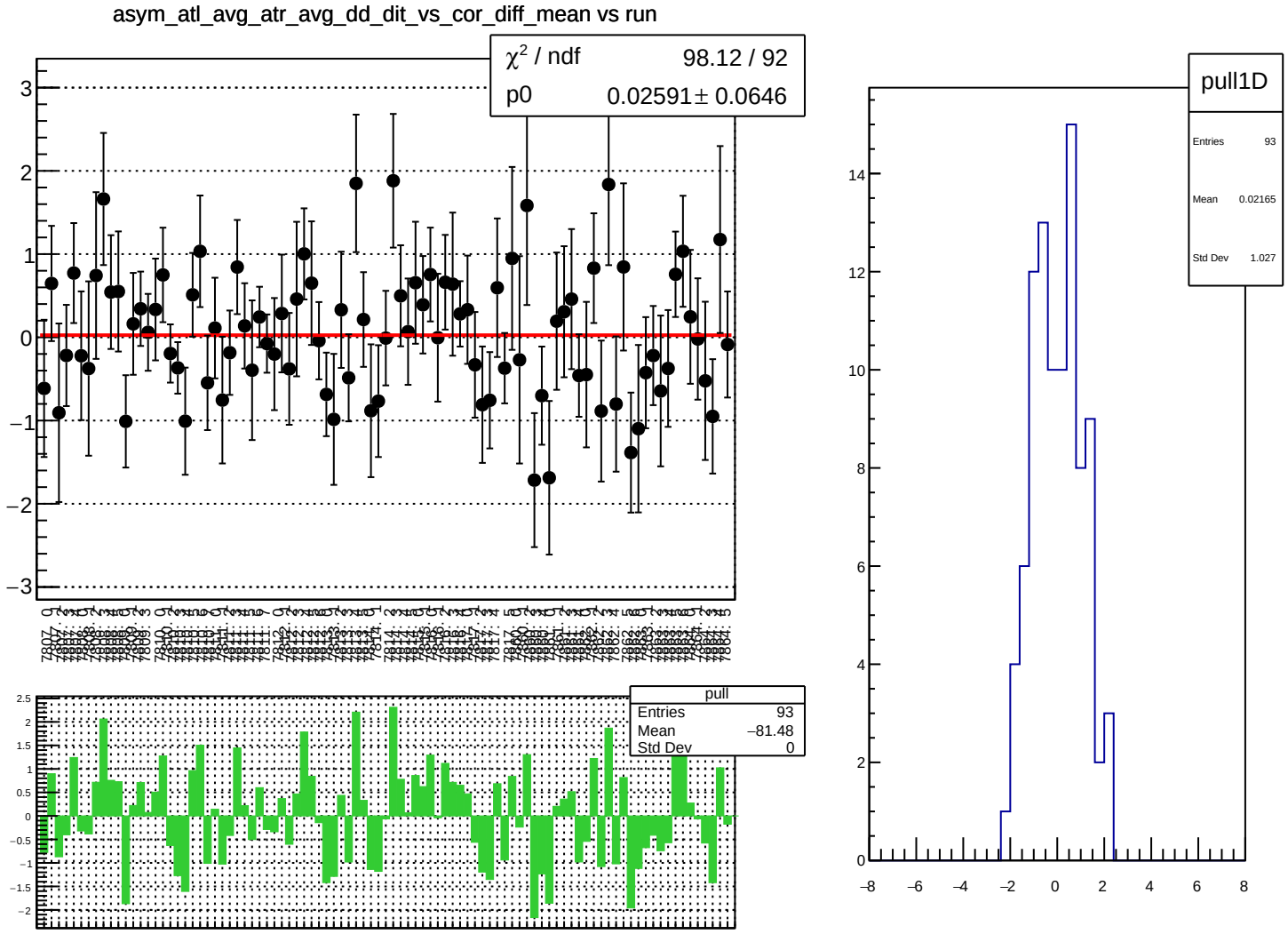

asym_atl_avg_atr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.804e+04 / 92
p0 1544 ± 1.143
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200

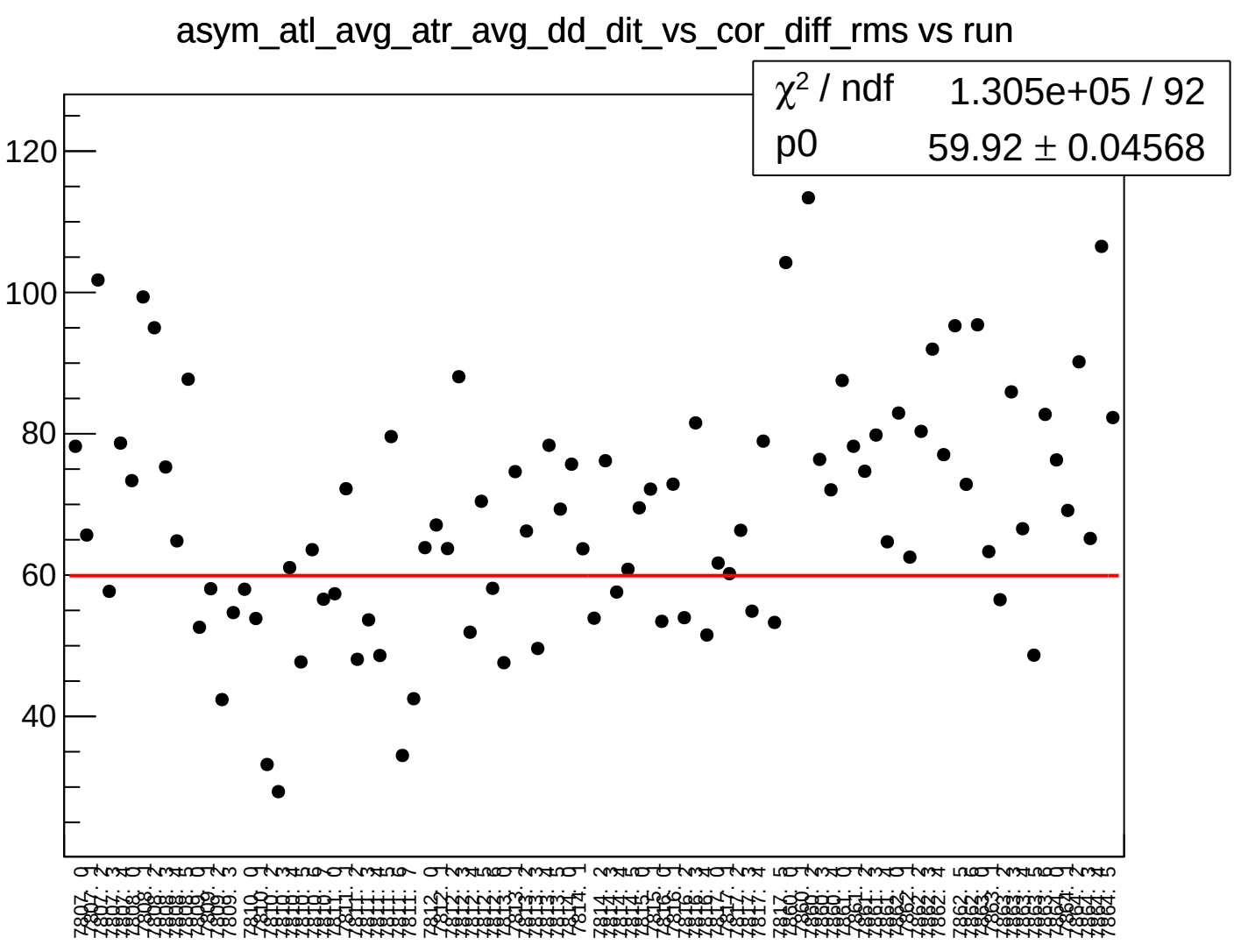

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 91.85 / 92
p0 526.9 ± 2109
pull
Entries 93
Mean −204.8
Std Dev 0
pull1D
Entries 93
Mean 0.006126
Std Dev 0.9938

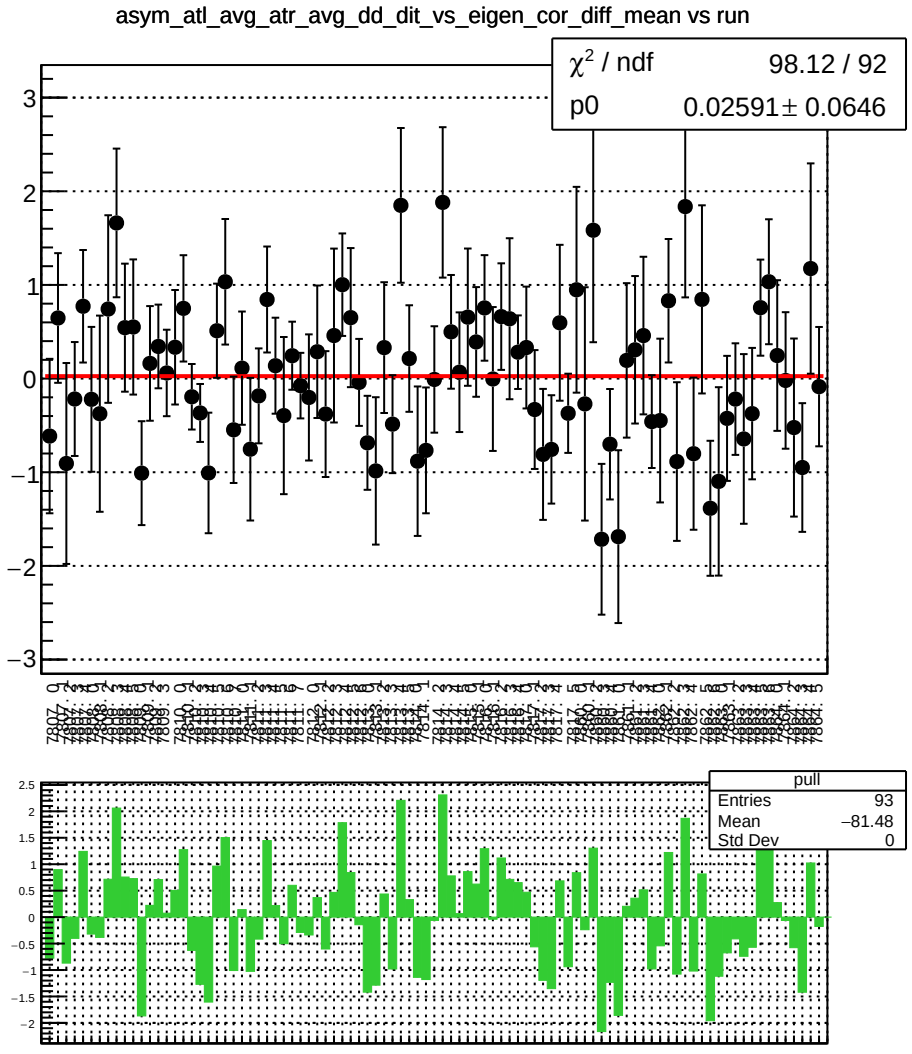

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 9615 / 92
p0 2024 ± 1.491
2400
2300
2200
2100
2000
1900
1800

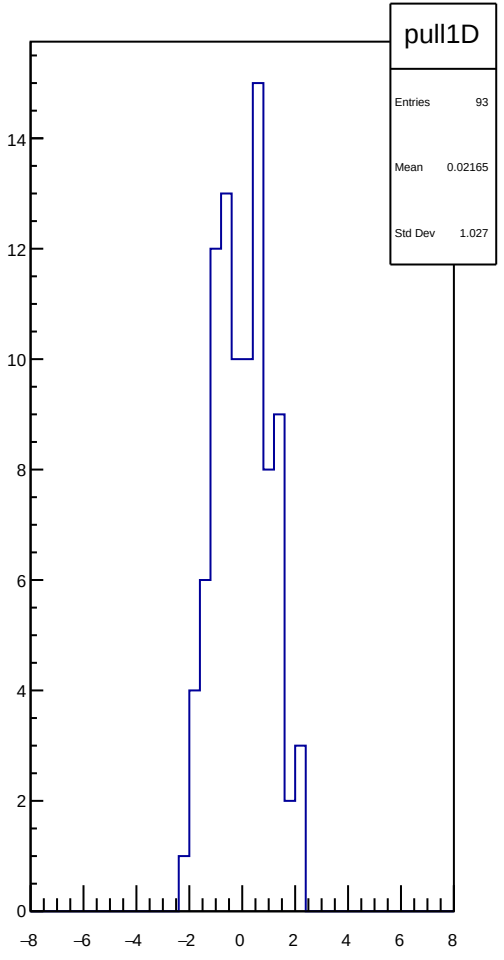

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 84.67 / 92
p0 −2.688e−13 ± 2.846e−13
0.01
0.005
0
−0.005
−0.01
pull
Entries 93
Mean 122.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean −0.01817
Std Dev 0.954
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

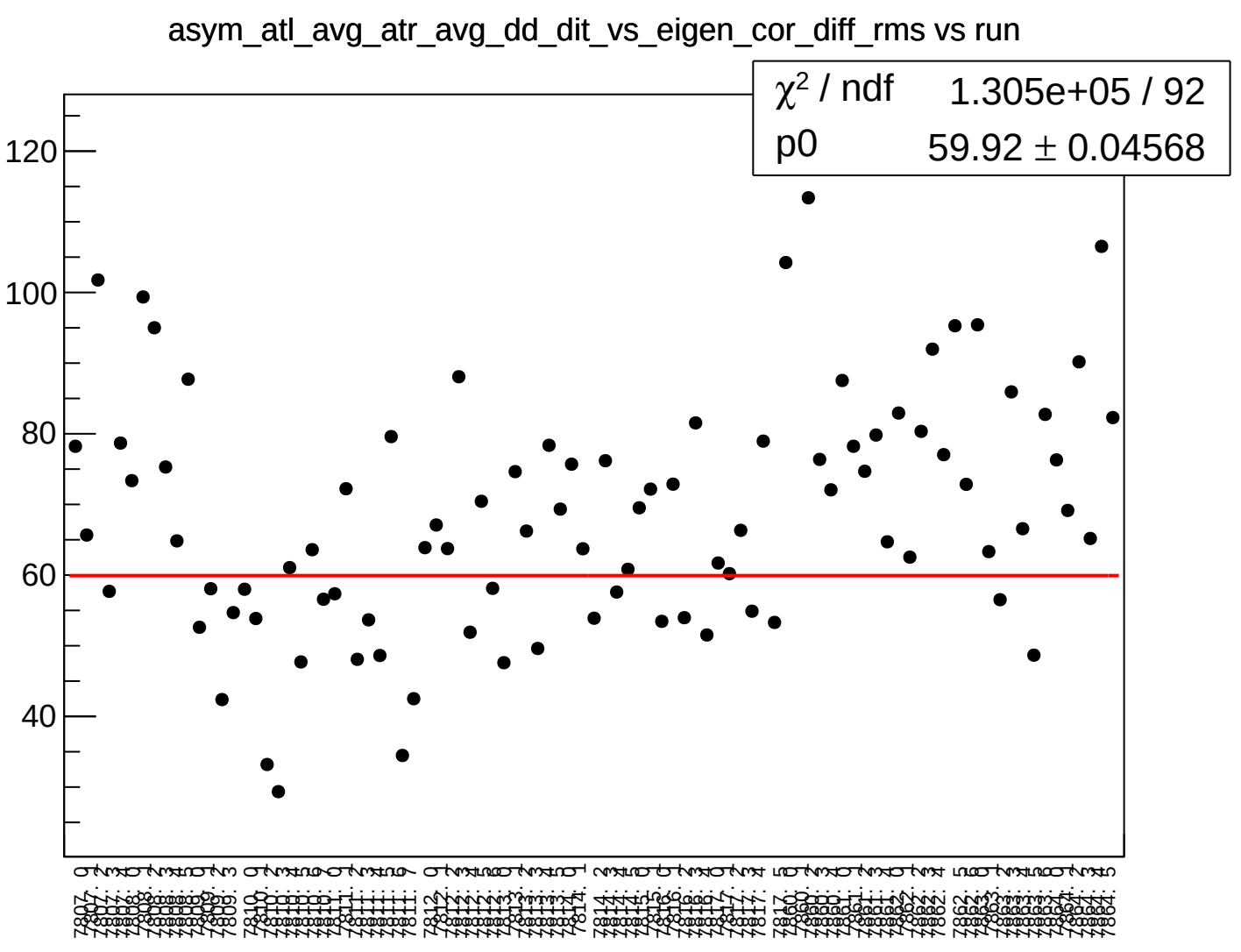

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.613e+05 / 92
p0 1.899e−10 ± 2.013e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

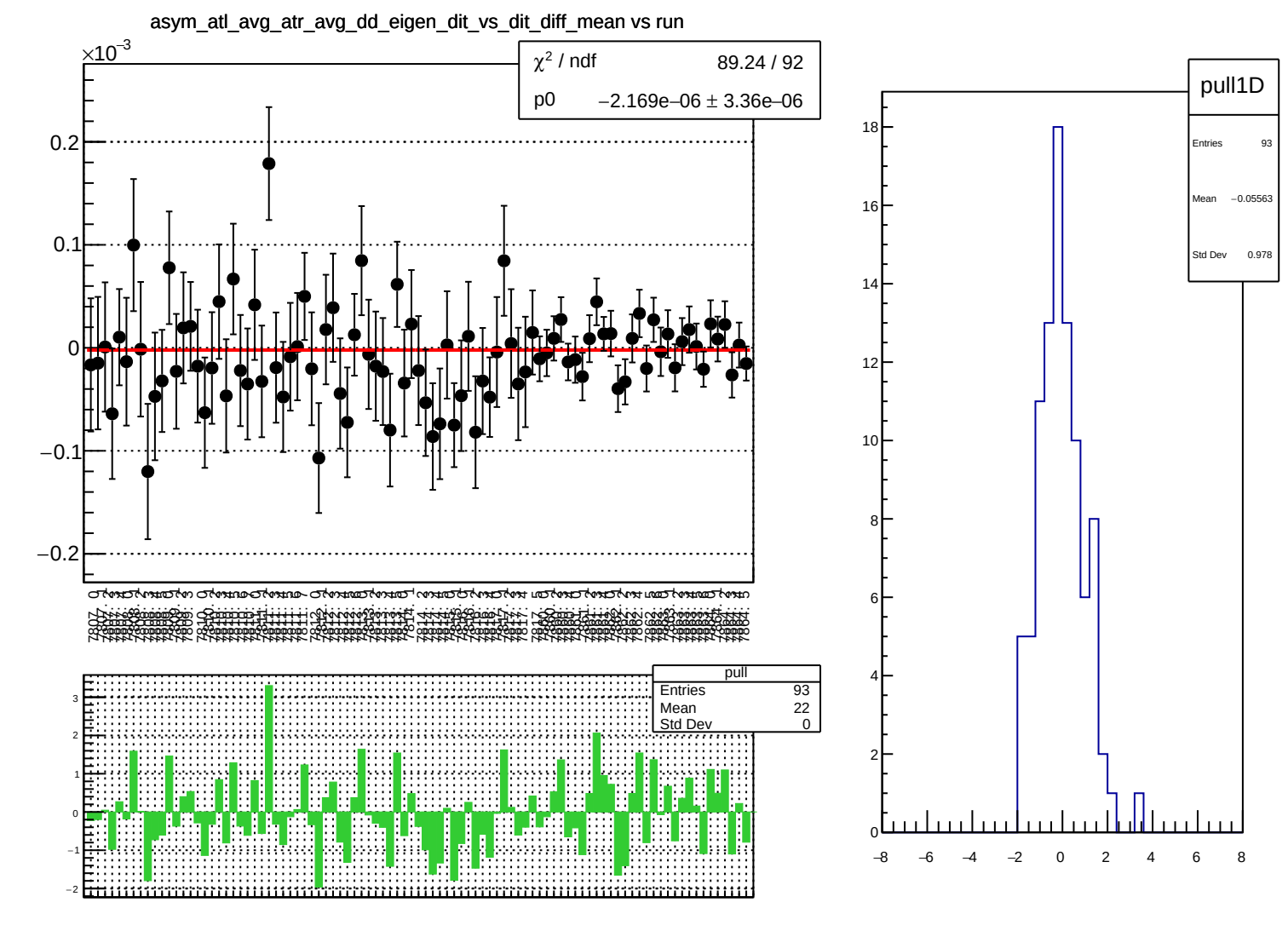

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 98.12 / 92
p0 0.02591 ± 0.0646
pull
Entries 93
Mean −81.48
Std Dev 0
pull1D
Entries 93
Mean 0.02165
Std Dev 1.027

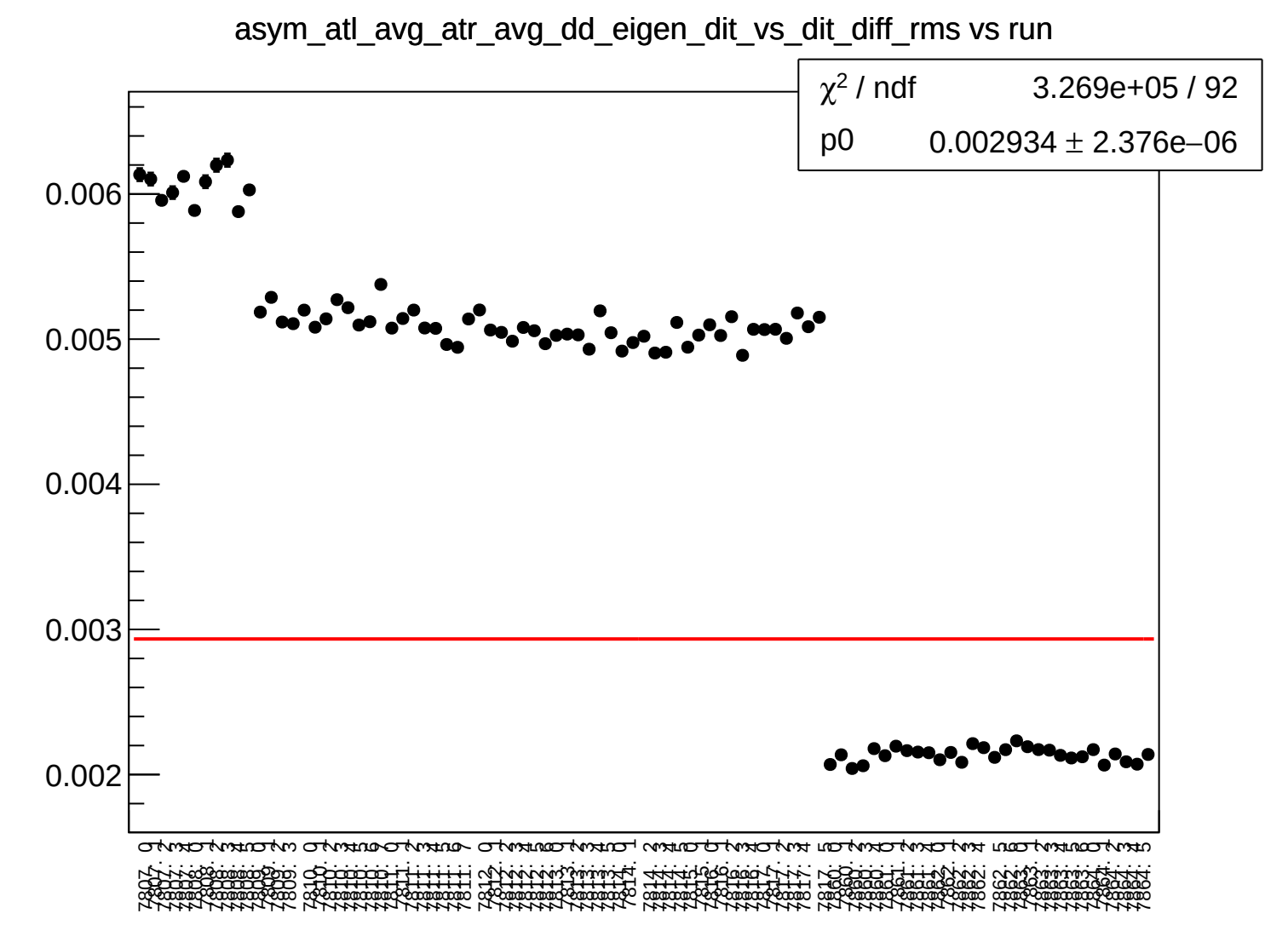

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.305e+05 / 92
p0 59.92 ± 0.04568
120
100
80
60
40

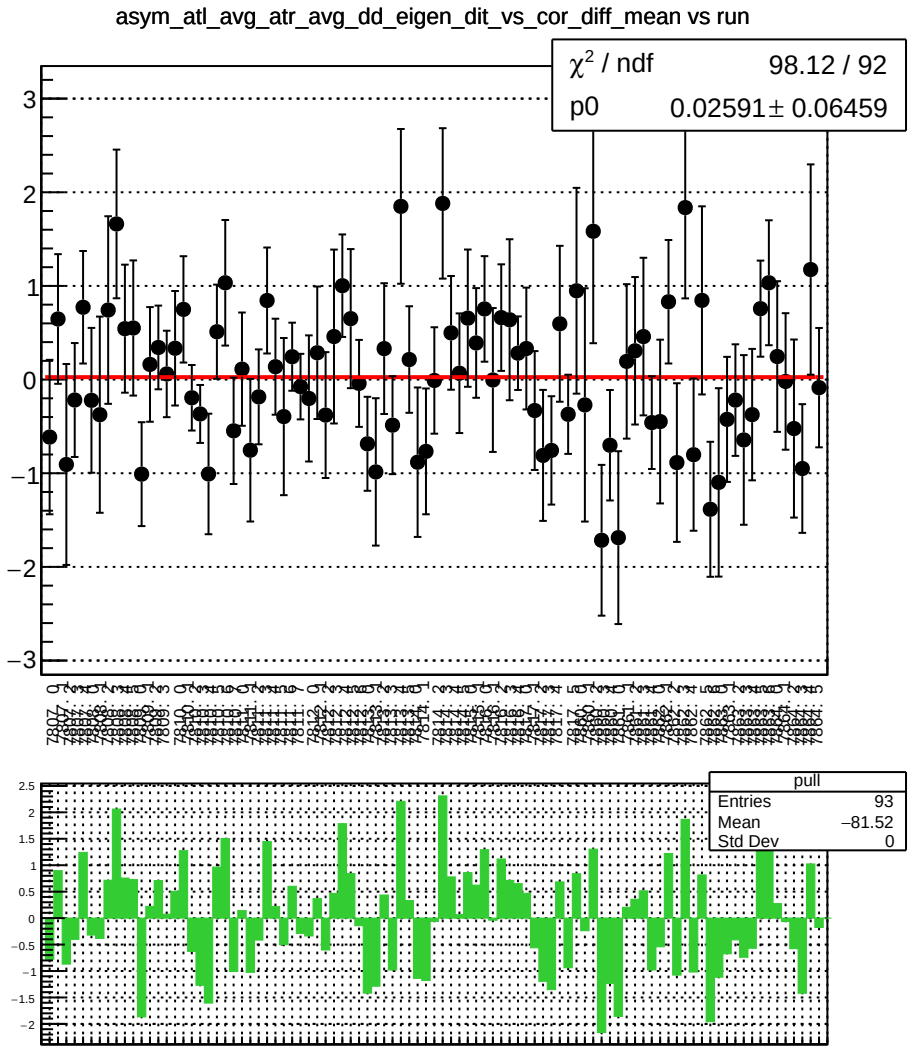

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.12 / 92
p0 0.02591 ± 0.0646
pull
Entries 93
Mean −81.48
Std Dev 0

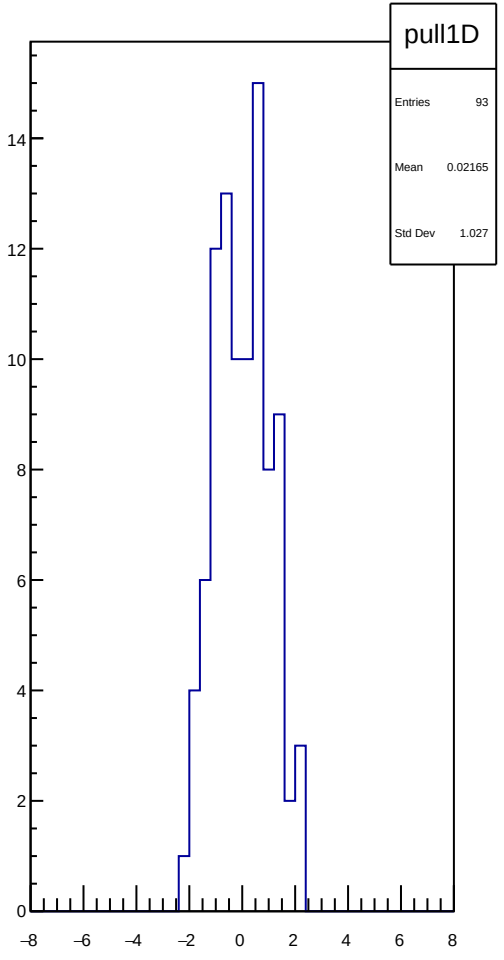

pull1D
Entries 93
Mean 0.02165
Std Dev 1.027

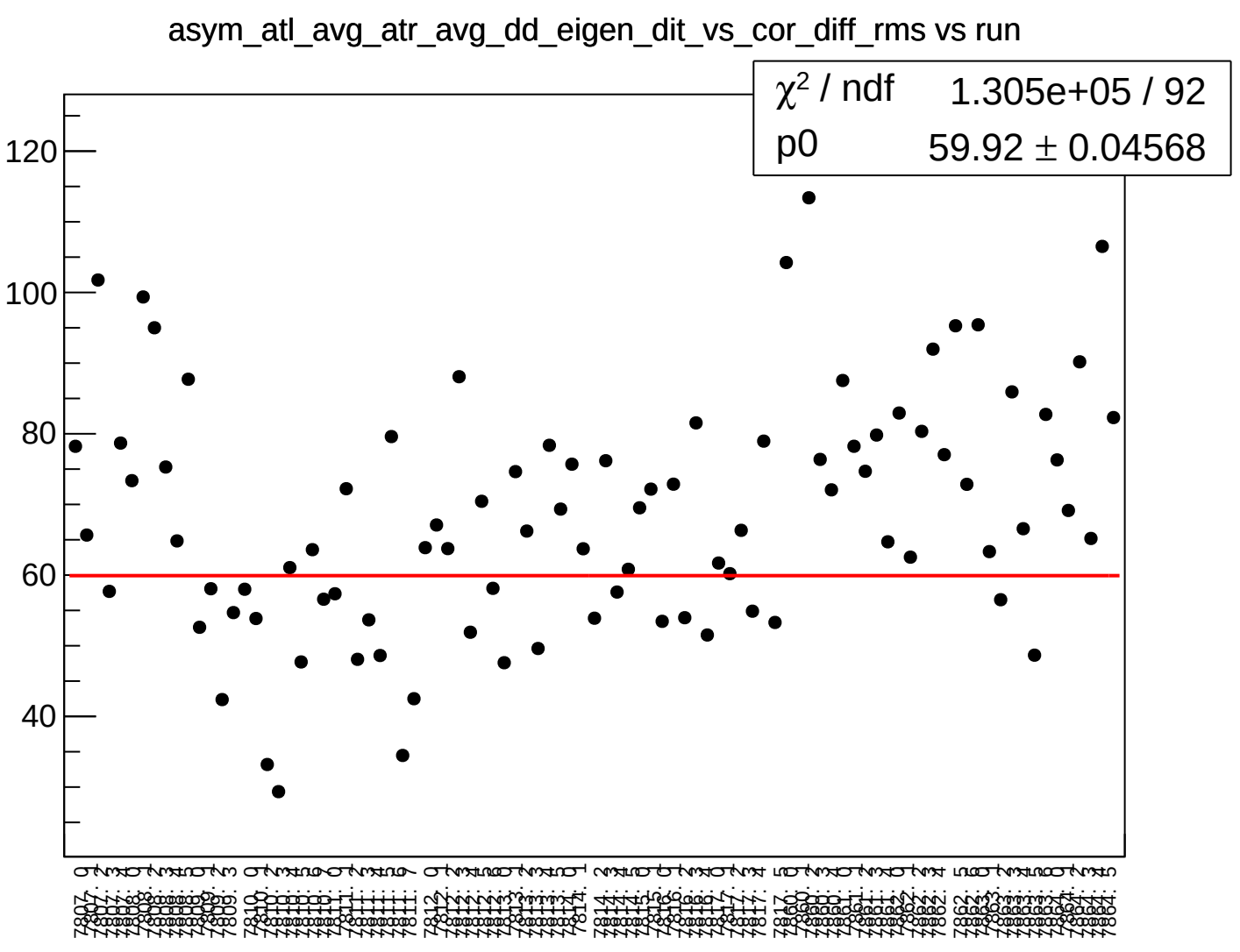

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.305e+05 / 92
p0 59.92 ± 0.04568
120
100
80
60
40

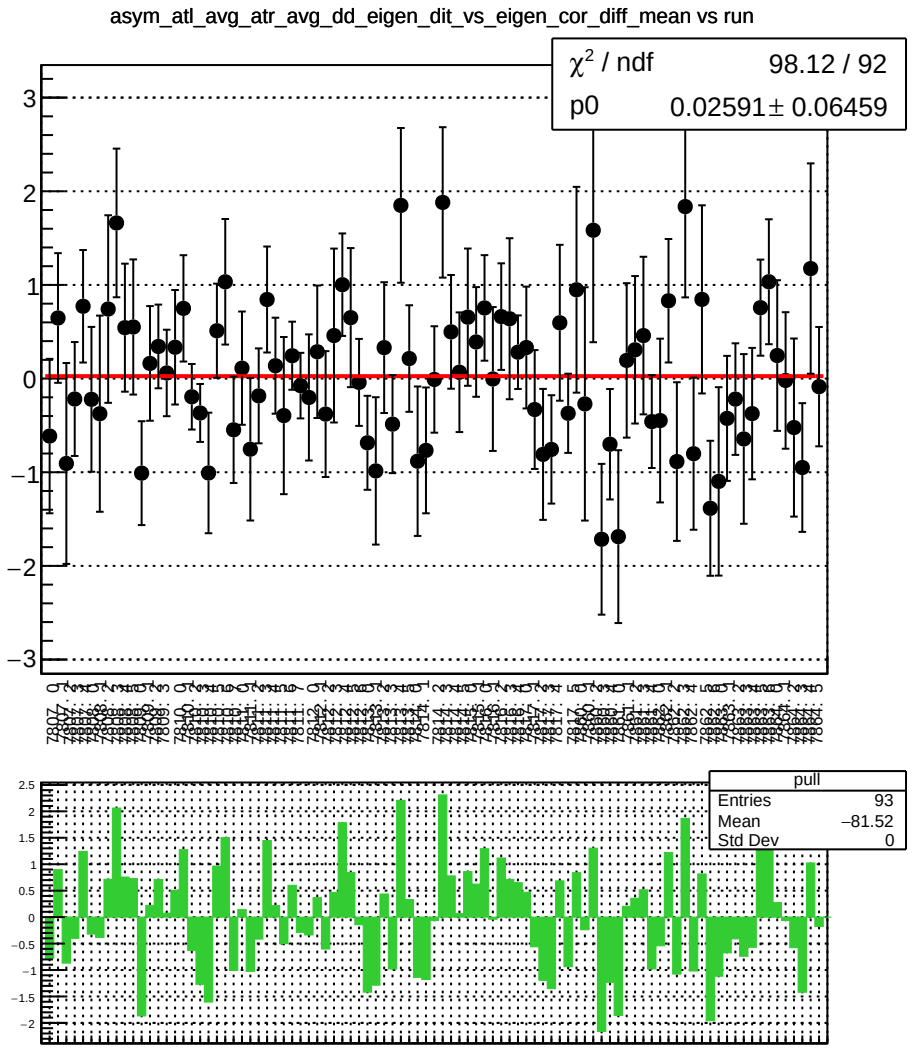

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.24 / 92
p0 −2.169e−06 ± 3.36e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 93
Mean 22
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.05563
Std Dev 0.978
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

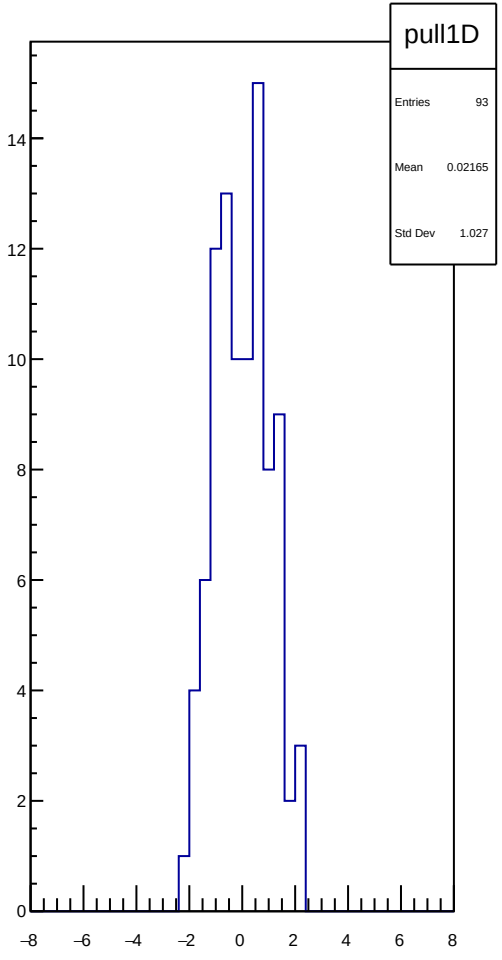

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.269e+05 / 92
p0 0.002934 ± 2.376e−06
0.006
0.005
0.004
0.003
0.002

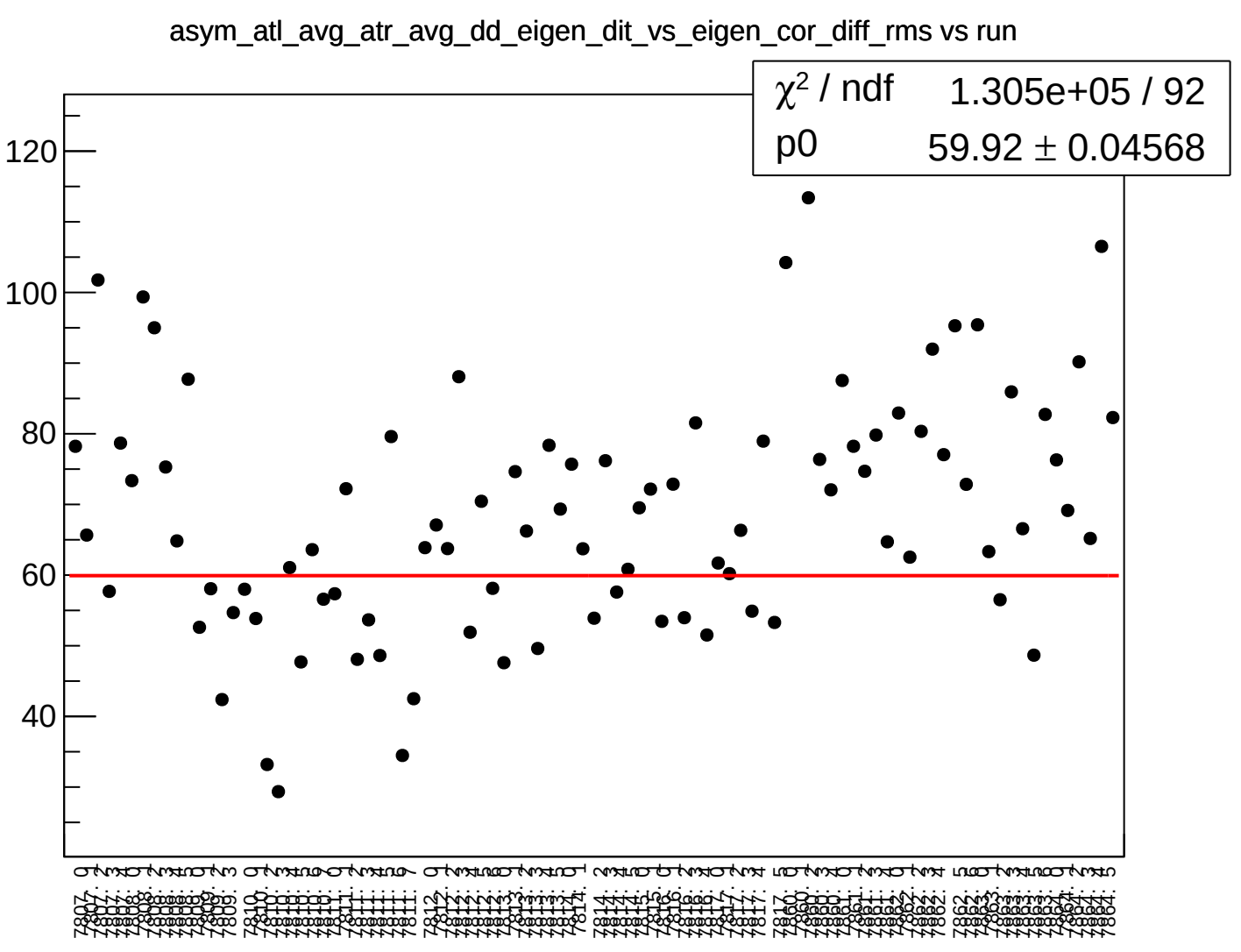

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 98.12 / 92
p0 0.02591 ± 0.06459
pull
Entries 93
Mean −81.52
Std Dev 0

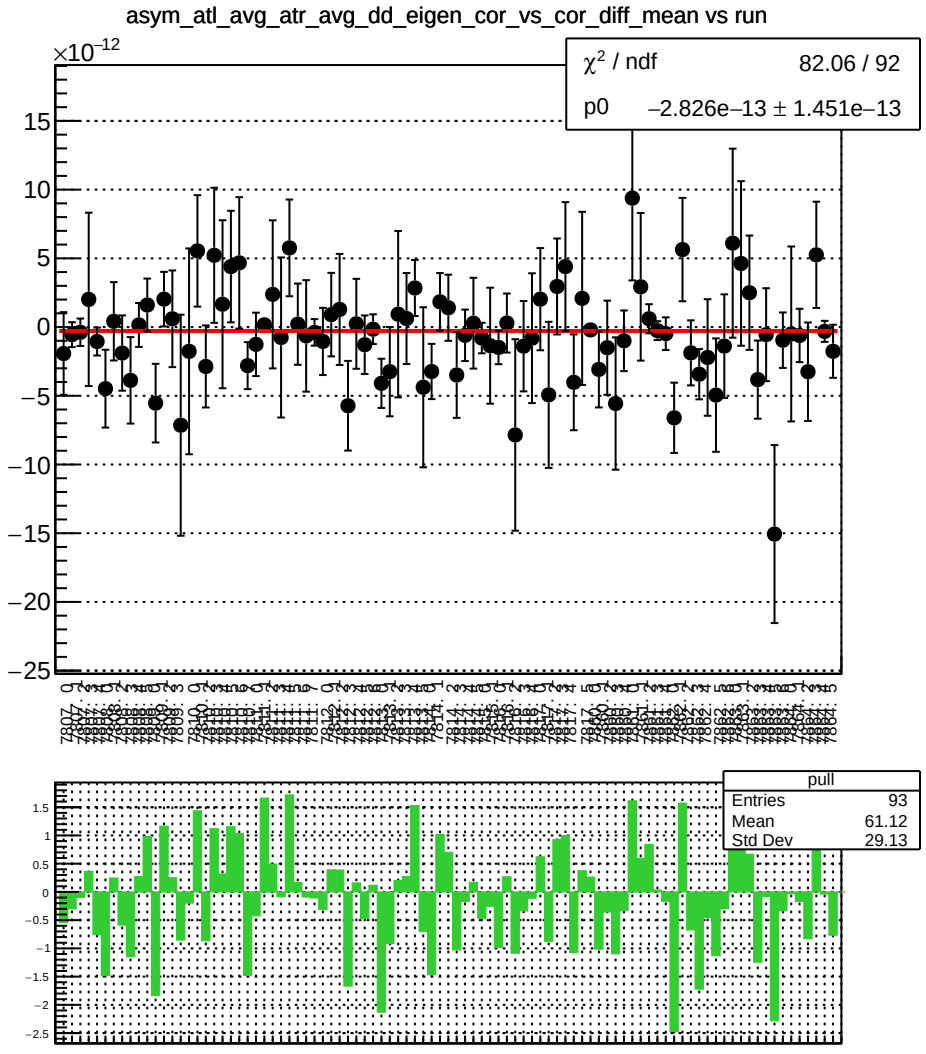

pull1D
Entries 93
Mean 0.02165
Std Dev 1.027

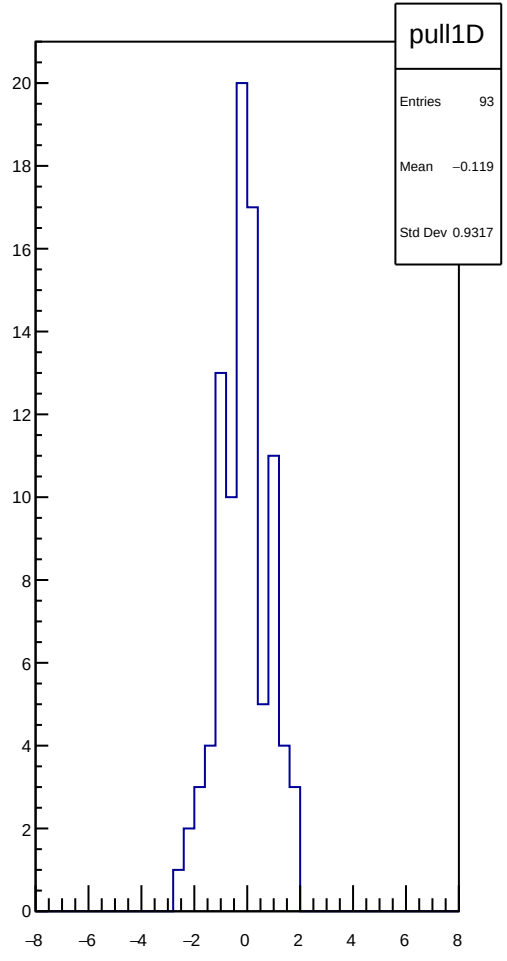

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.305e+05 / 92
p0 59.92 ± 0.04568
120
100
80
60
40

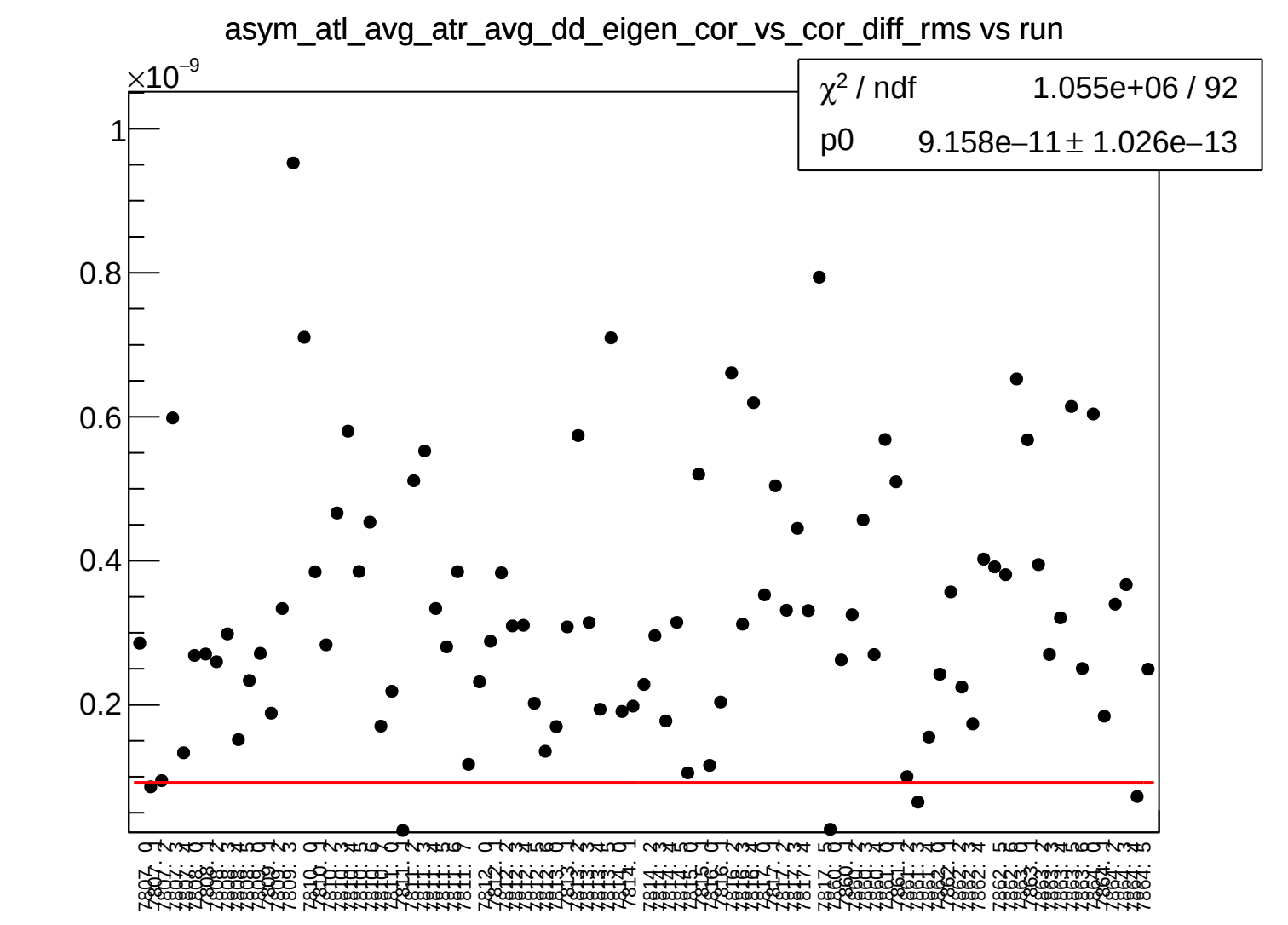

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.12 / 92
p0 0.02591 ± 0.06459
pull
Entries 93
Mean −81.52
Std Dev 0

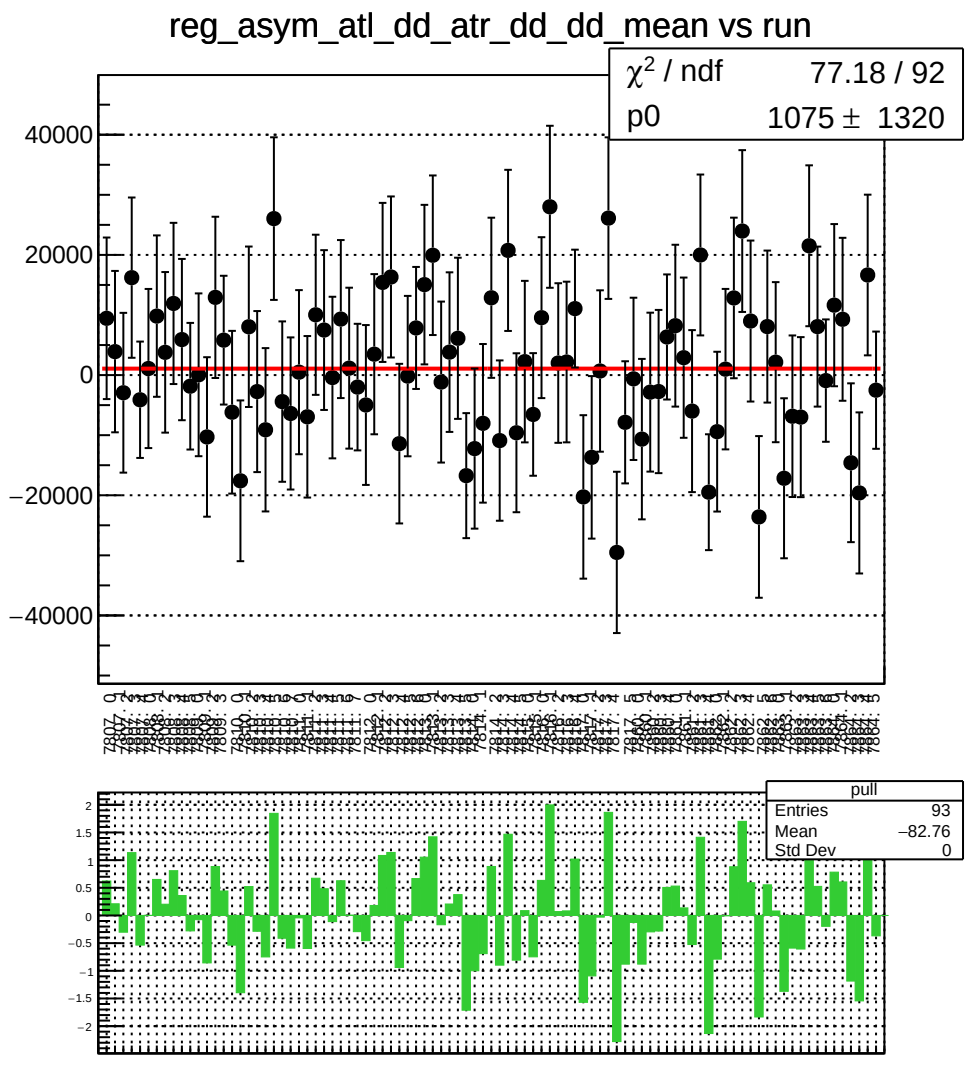

pull1D
Entries 93
Mean 0.02165
Std Dev 1.027

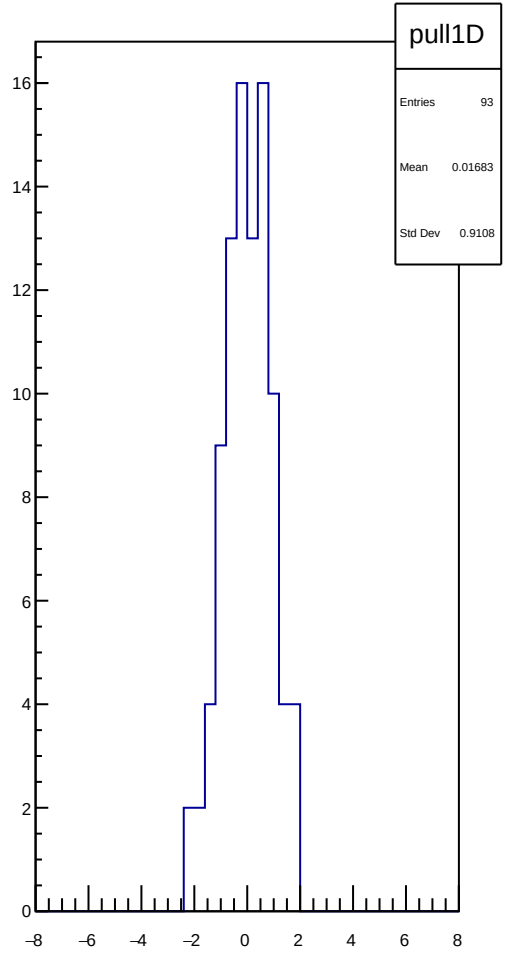

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.305e+05 / 92
p0 59.92 ± 0.04568
120
100
80
60
40

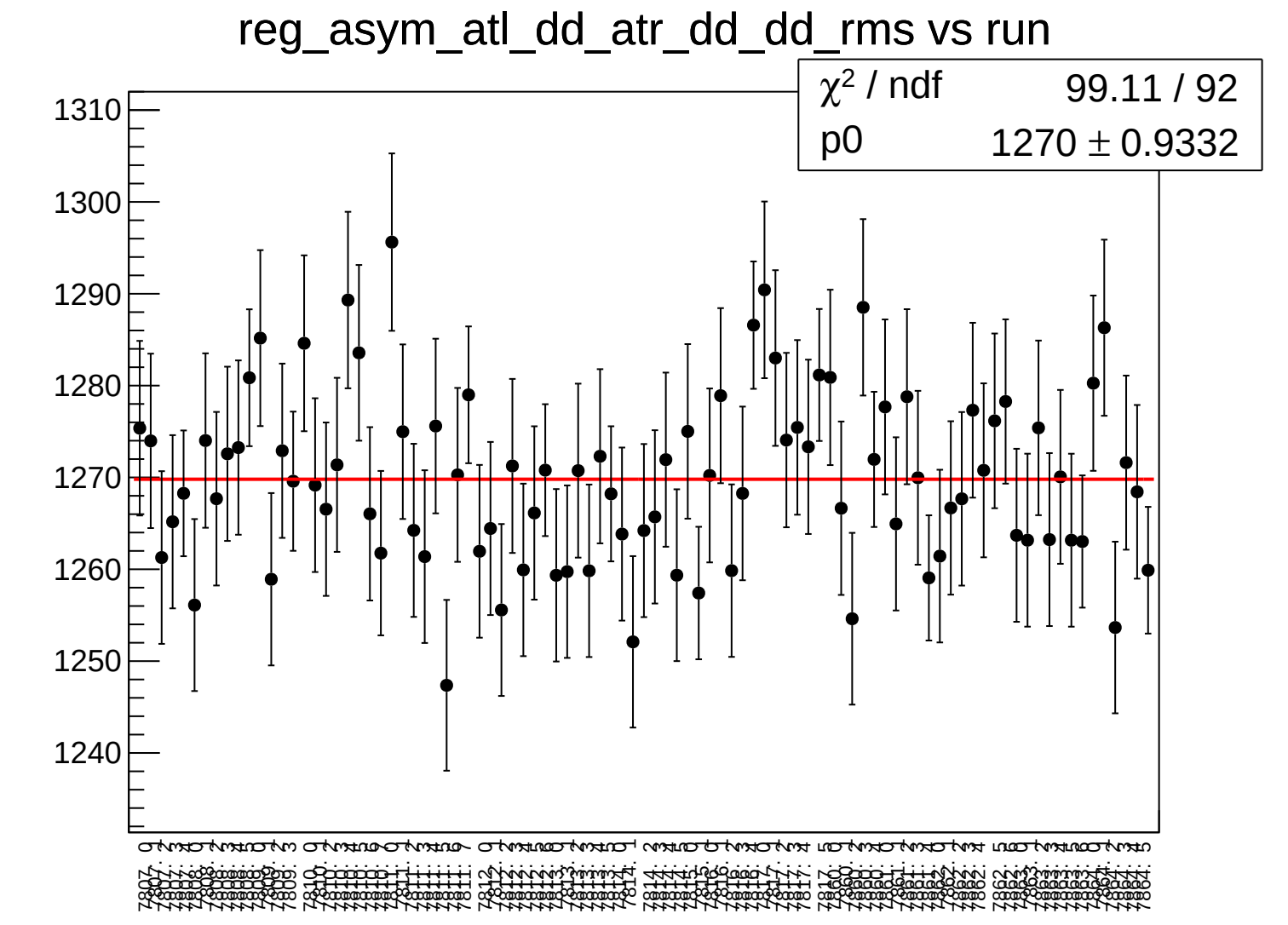

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.06 / 92
p0 −2.826e−13 ± 1.451e−13
pull
Entries 93
Mean 61.12
Std Dev 29.13

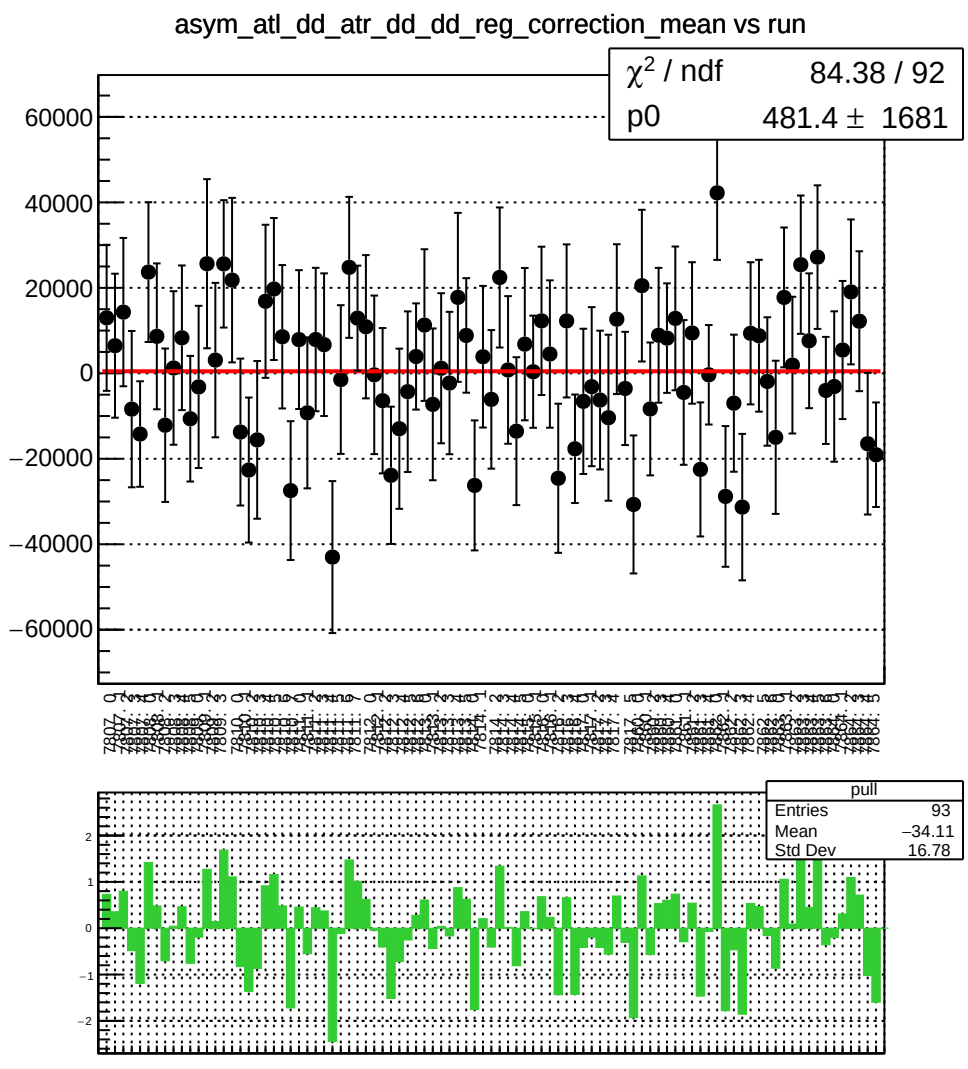

pull1D
Entries 93
Mean −0.119
Std Dev 0.9317

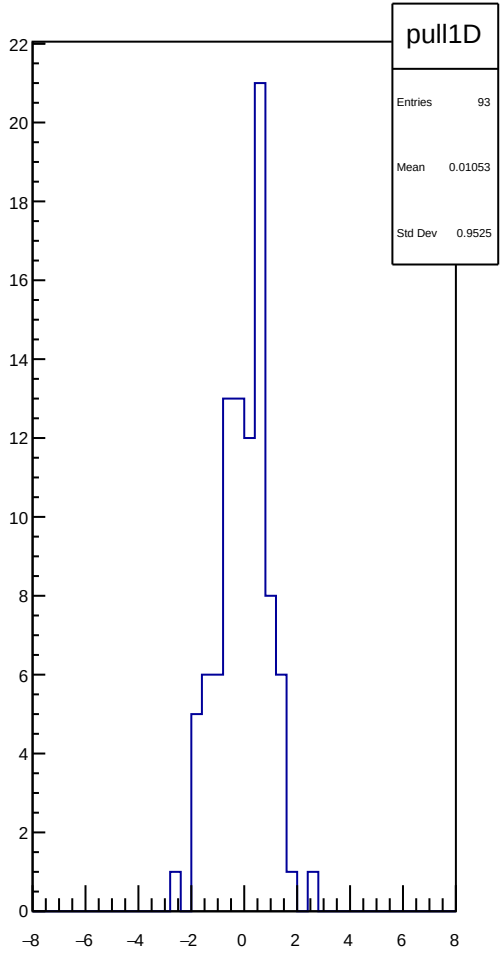

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.055e+06 / 92
p0 9.158e−11 ± 1.026e−13
1
0.8
0.6
0.4
0.2

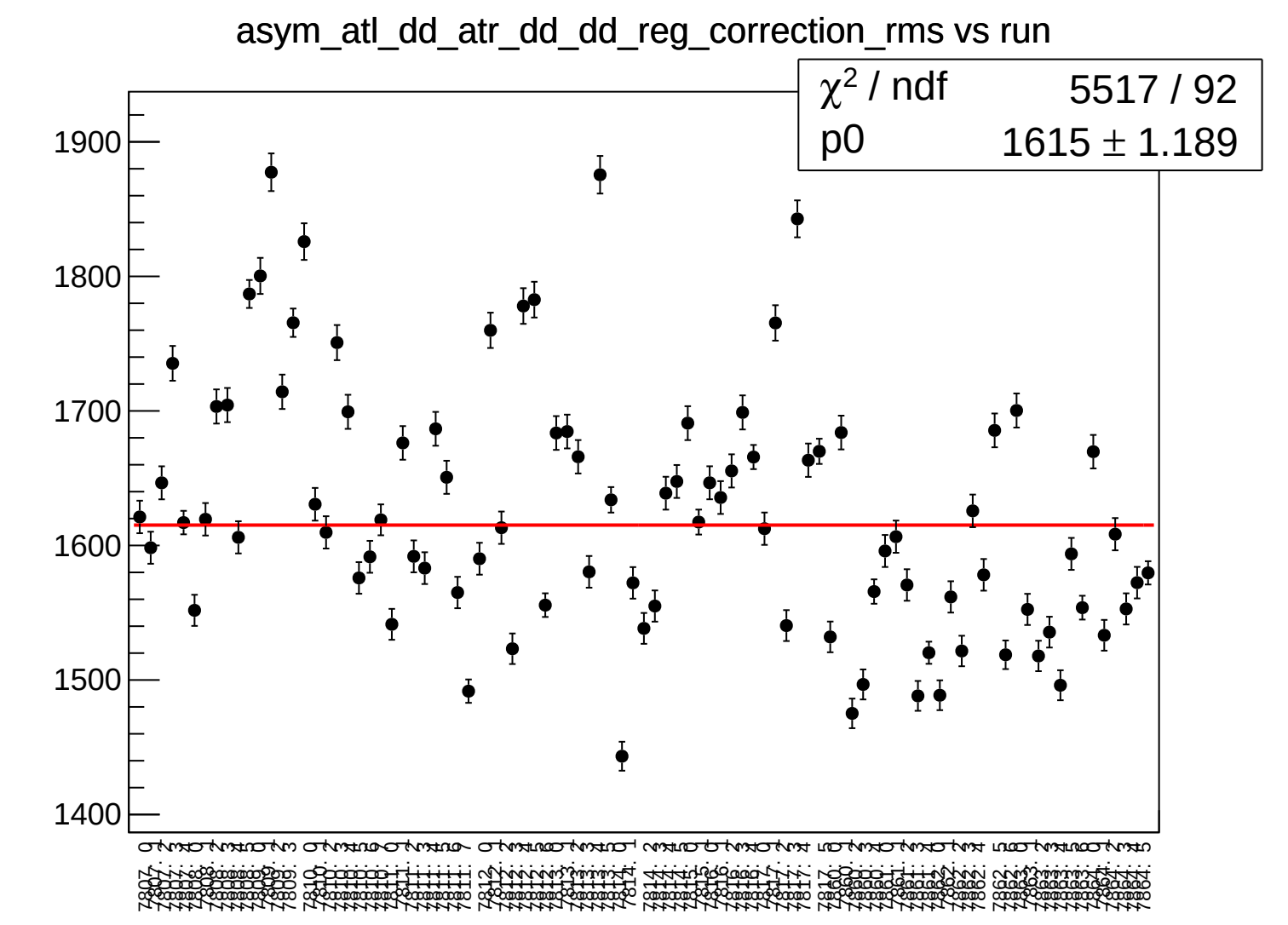

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 77.18 / 92
p0 1075 ± 1320
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −82.76
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

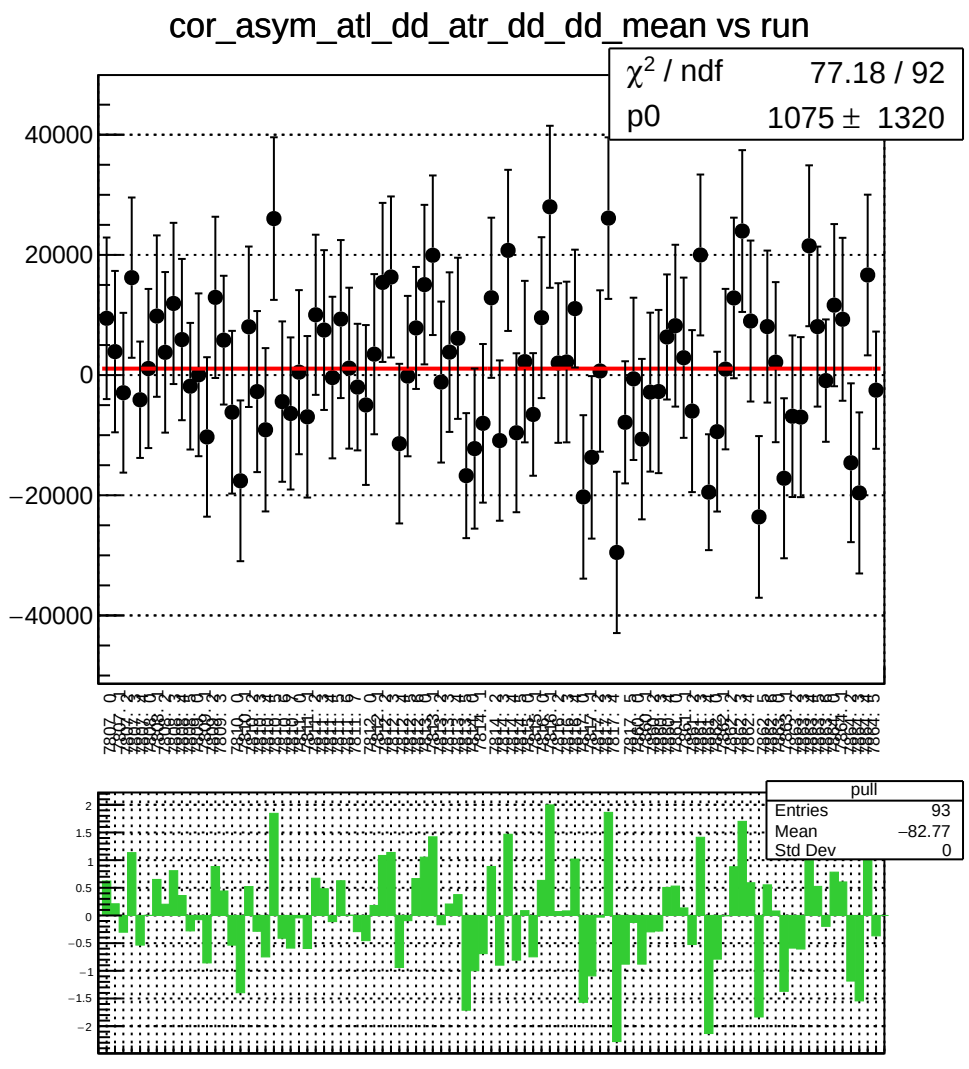

pull1D
Entries 93
Mean 0.01683
Std Dev 0.9108
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

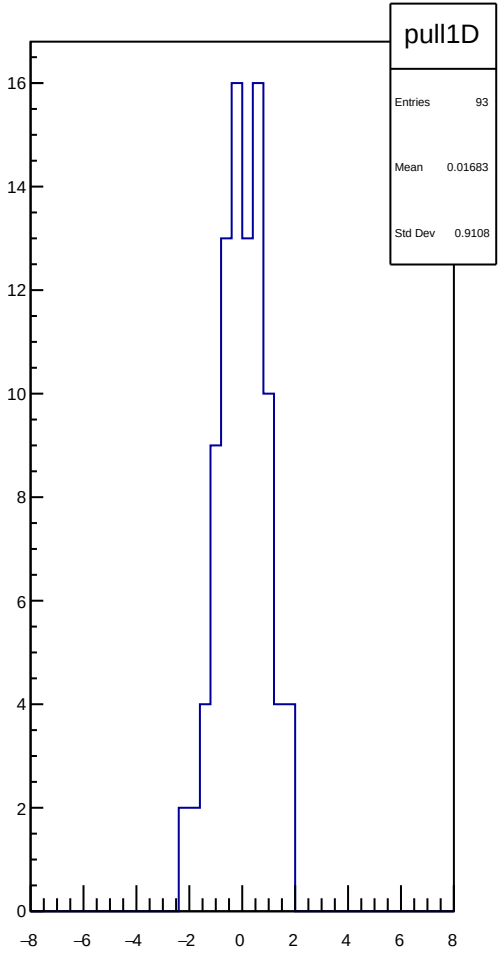

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 99.11 / 92
p0 1270 ± 0.9332
1310
1300
1290
1280
1270
1260
1250
1240

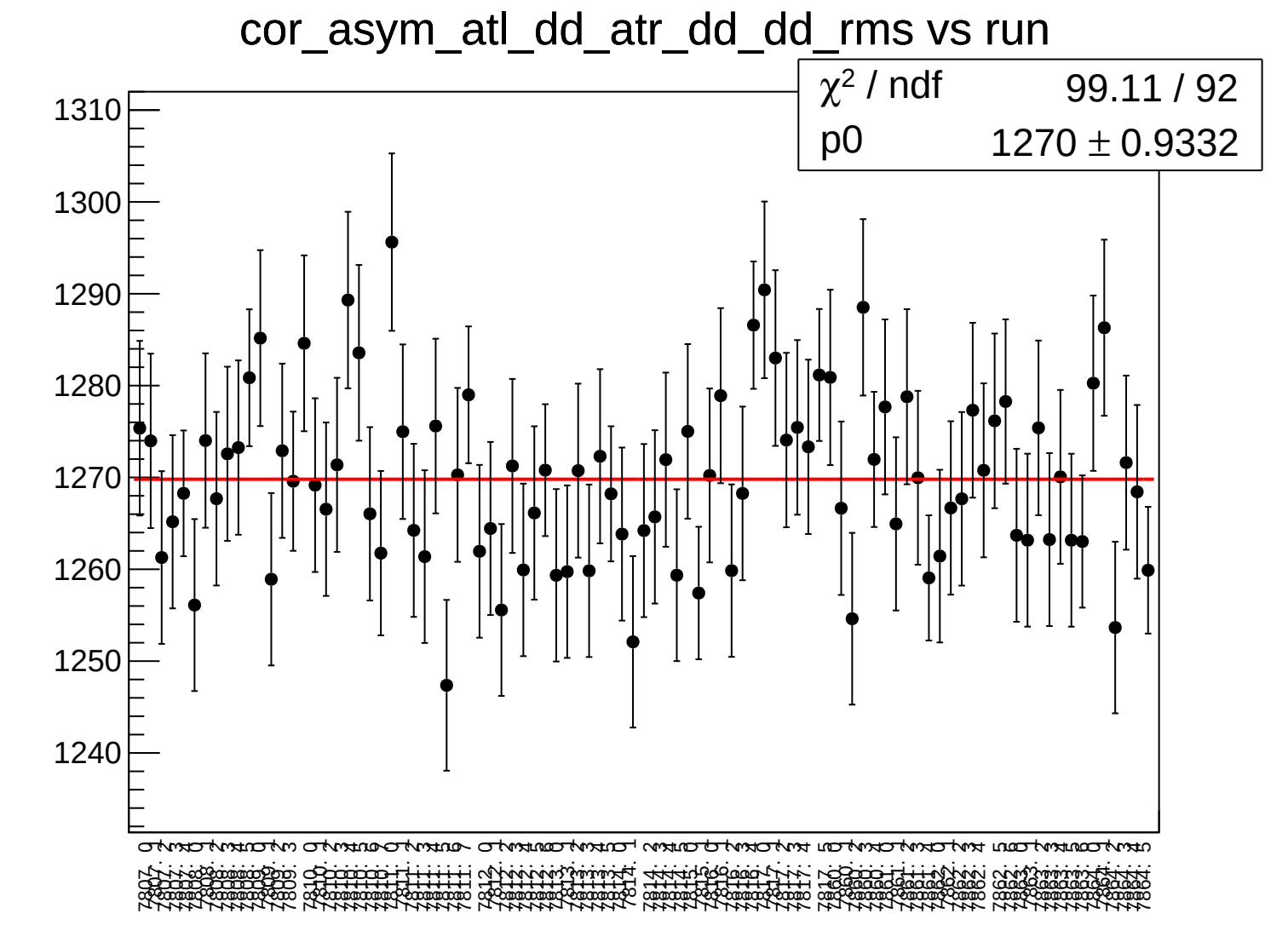

asym_atl_dd_atr_dd_dd_reg_correction_mean vs run
χ² / ndf 84.38 / 92
p0 481.4 ± 1681
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −34.11
Std Dev 16.78
2
1
0
−1
−2

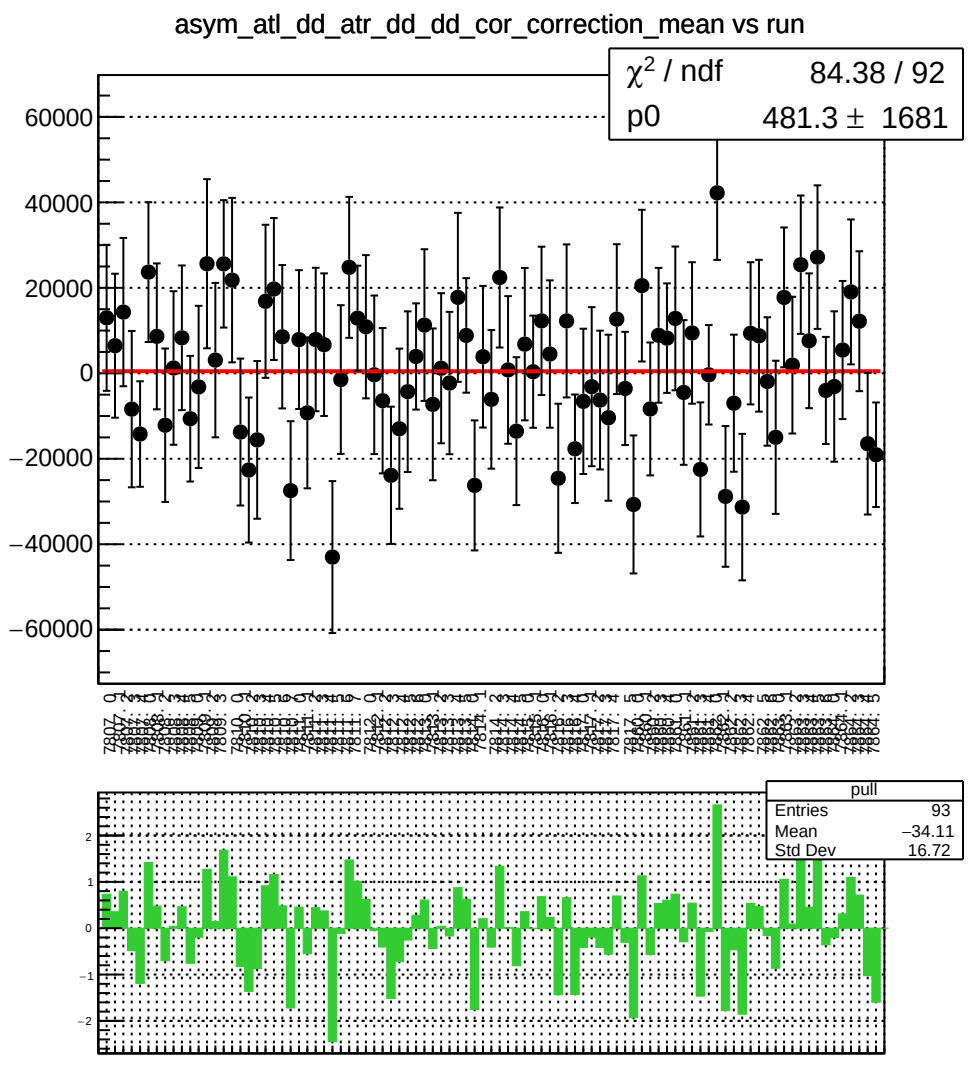

pull1D
Entries 93
Mean 0.01053
Std Dev 0.9525
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

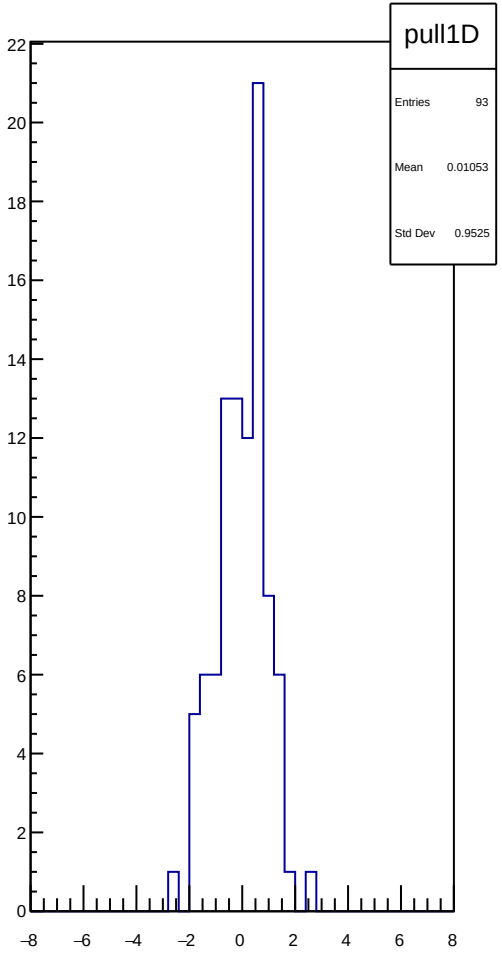

asym_atl_dd_atr_dd_dd_reg_correction_rms vs run
χ² / ndf 5517 / 92
p0 1615 ± 1.189
1900
1800
1700
1600
1500
1400

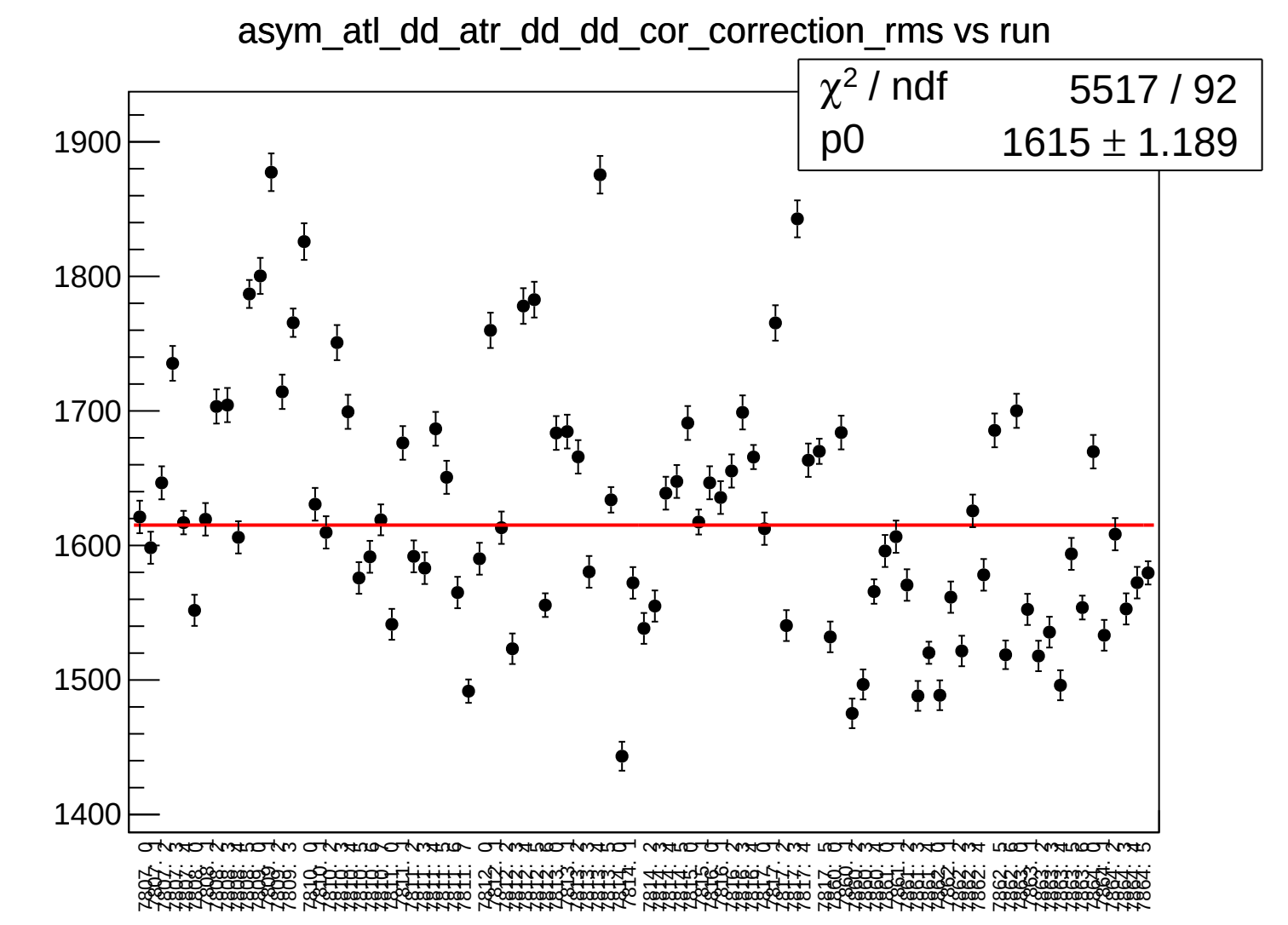

cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 77.18 / 92
p0 1075 ± 1320
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −82.77
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

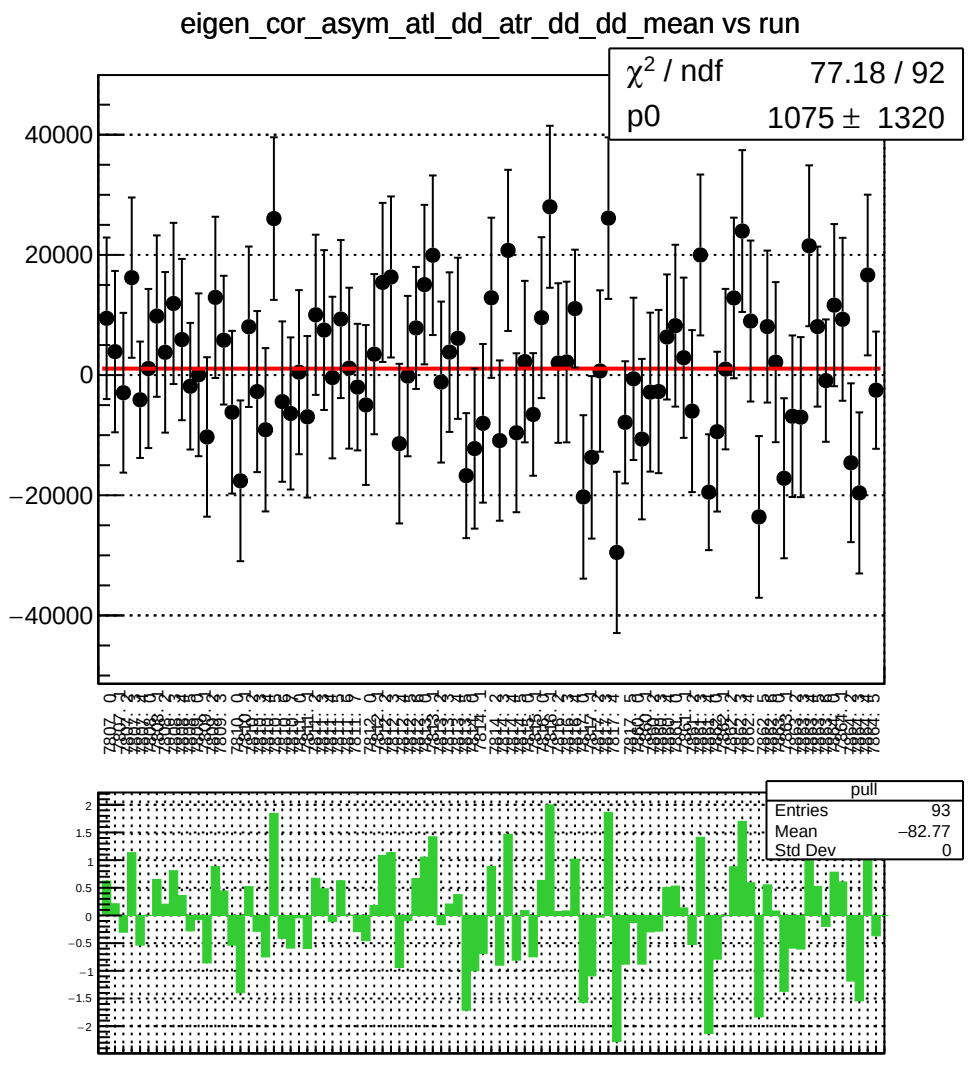

pull1D
Entries 93
Mean 0.01683
Std Dev 0.9108
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

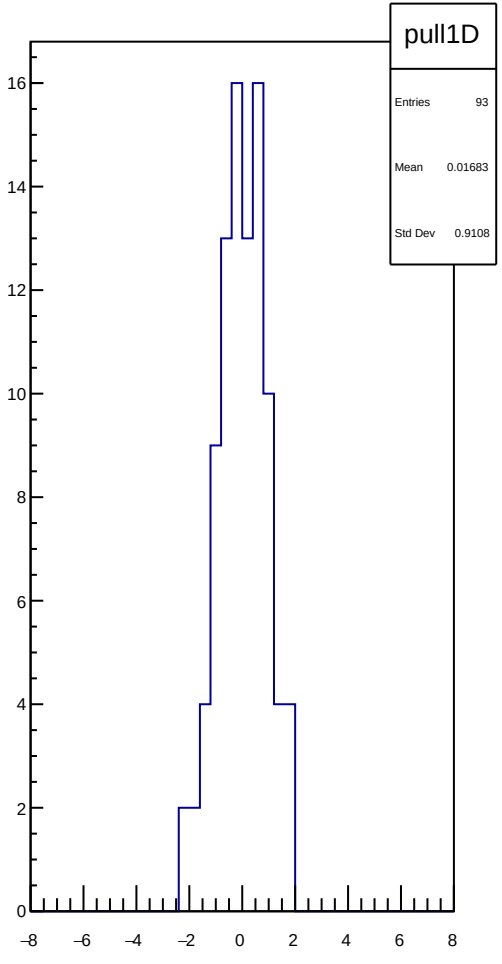

cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 99.11 / 92
p0 1270 ± 0.9332
1310
1300
1290
1280
1270
1260
1250
1240

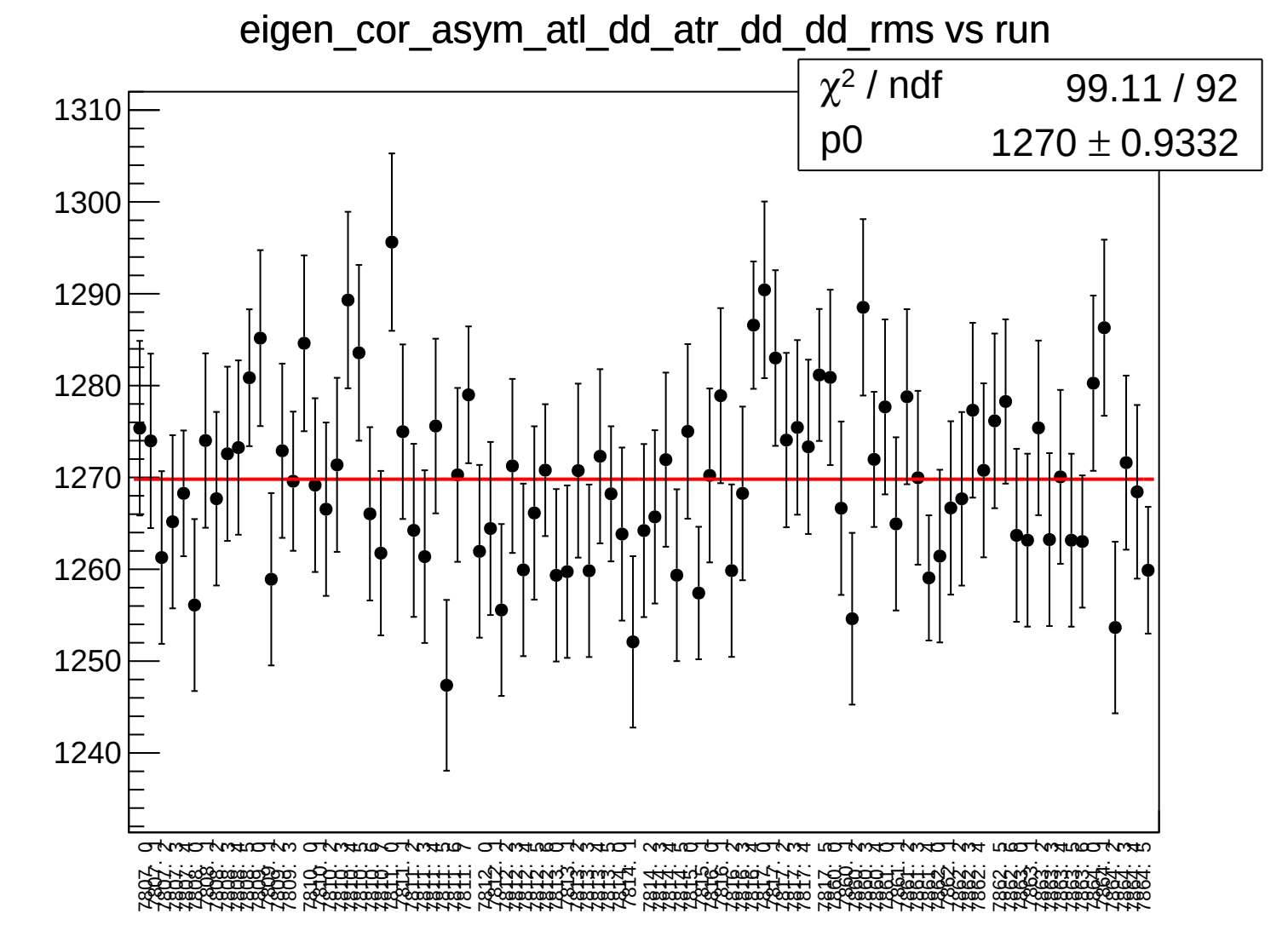

asym_atl_dd_atr_dd_dd_cor_correction_mean vs run
χ² / ndf 84.38 / 92
p0 481.3 ± 1681
pull
Entries 93
Mean −34.11
Std Dev 16.72

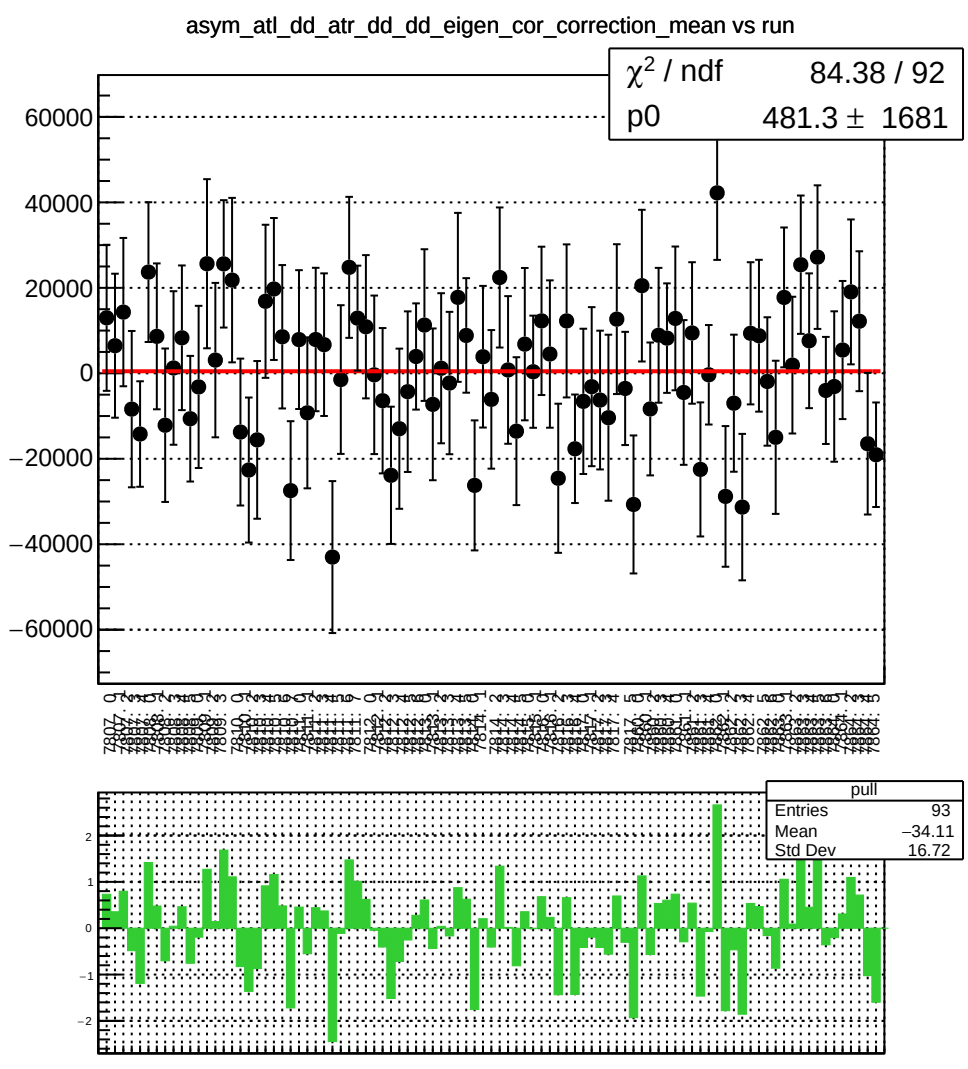

pull1D
Entries 93
Mean 0.01053
Std Dev 0.9525

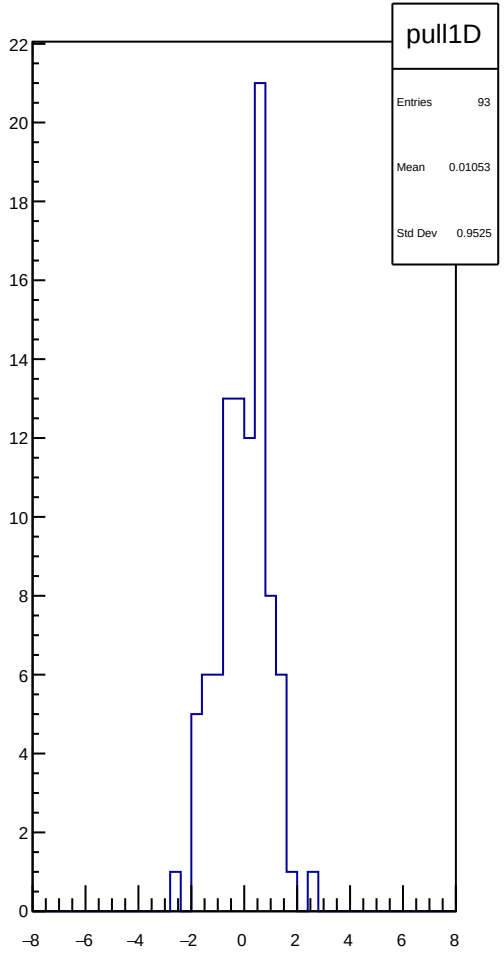

asym_atl_dd_atr_dd_dd_cor_correction_rms vs run
χ² / ndf 5517 / 92
p0 1615 ± 1.189
1900
1800
1700
1600
1500
1400

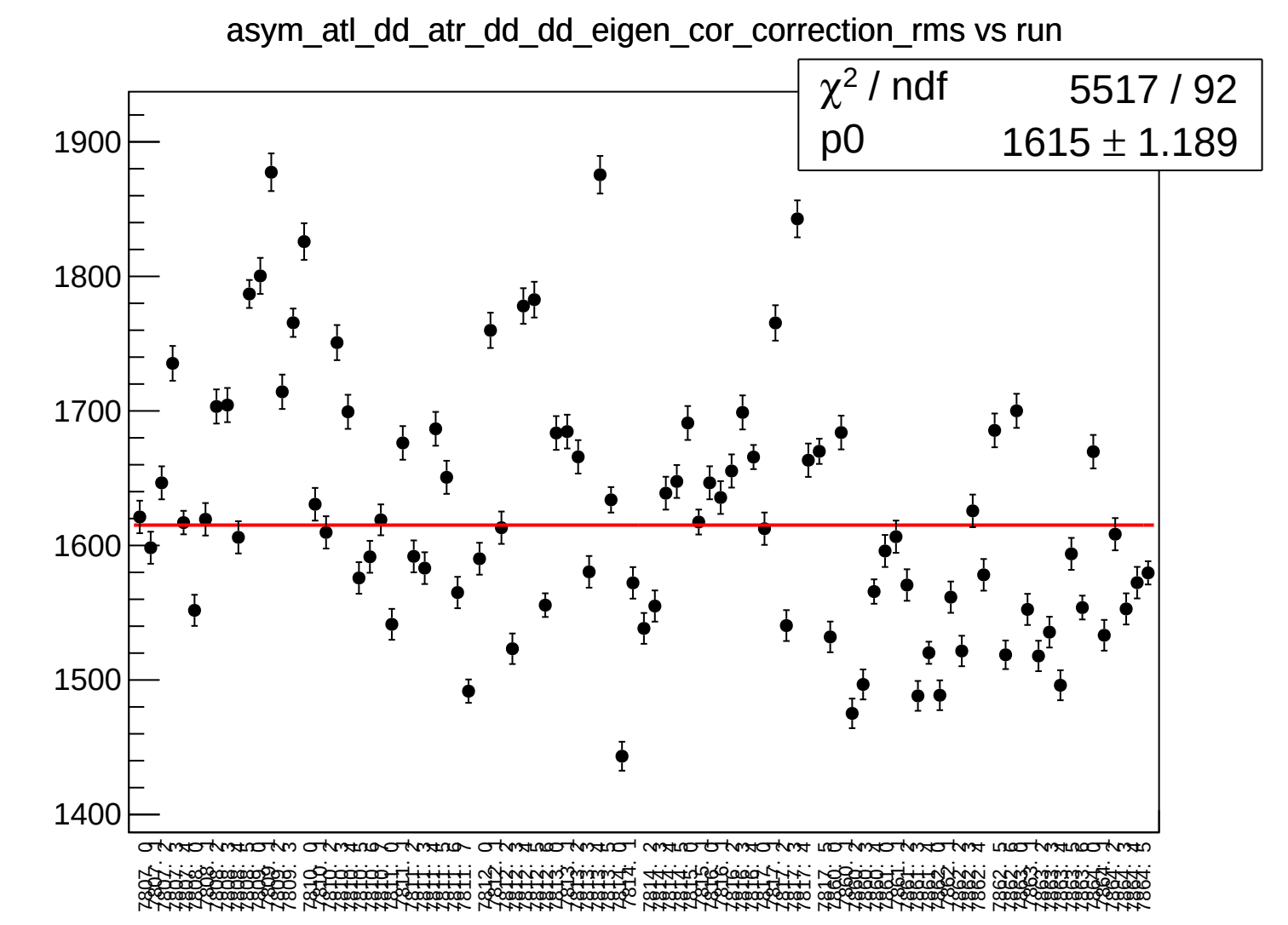

eigen_cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 77.18 / 92
p0 1075 ± 1320
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −82.77
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

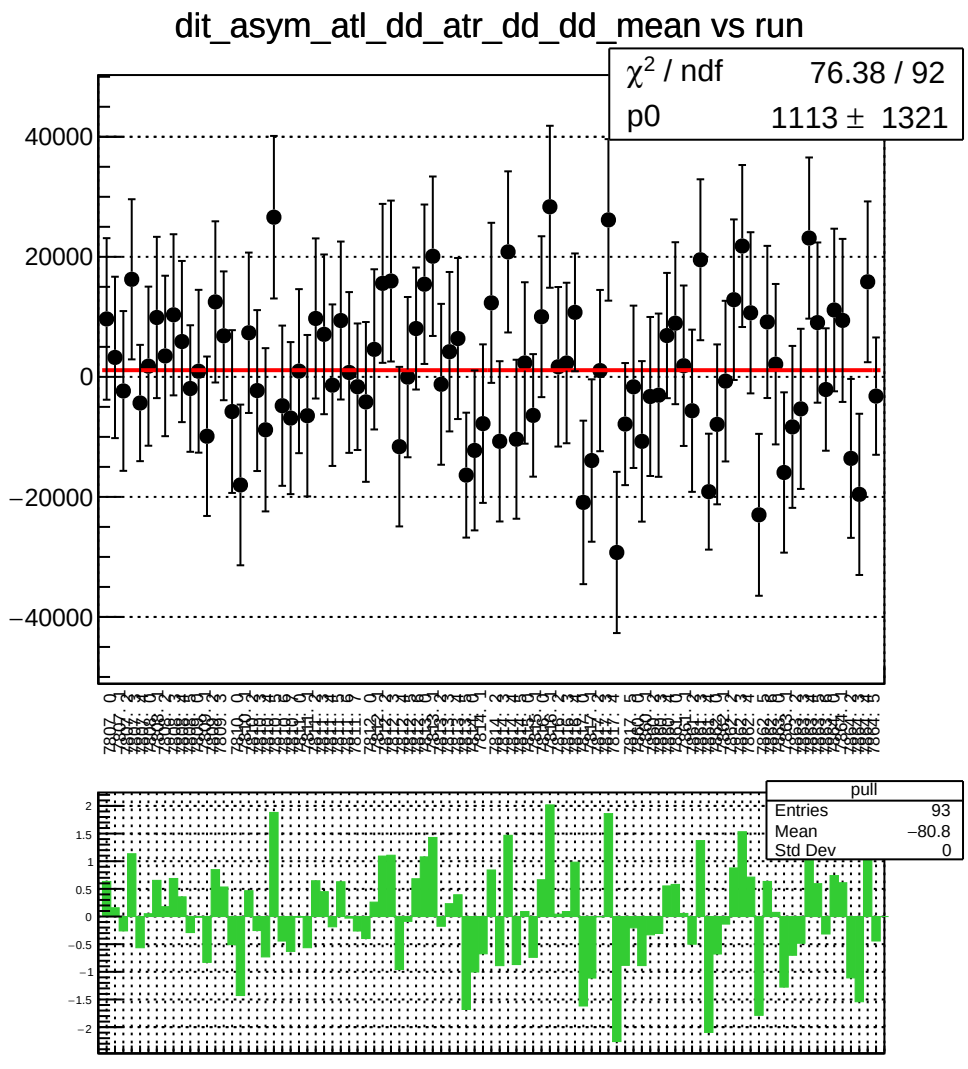

pull1D
Entries 93
Mean 0.01683
Std Dev 0.9108
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

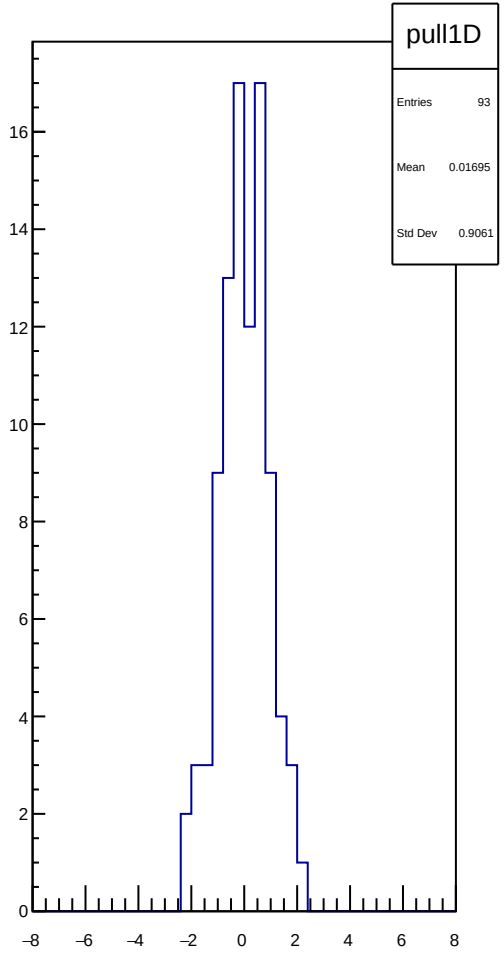

eigen_cor_asym_atl_dd_atr_dd_dd_rms vs run
χ^2 / ndf 99.11 / 92
p0 1270 ± 0.9332
1310
1300
1290
1280
1270
1260
1250
1240

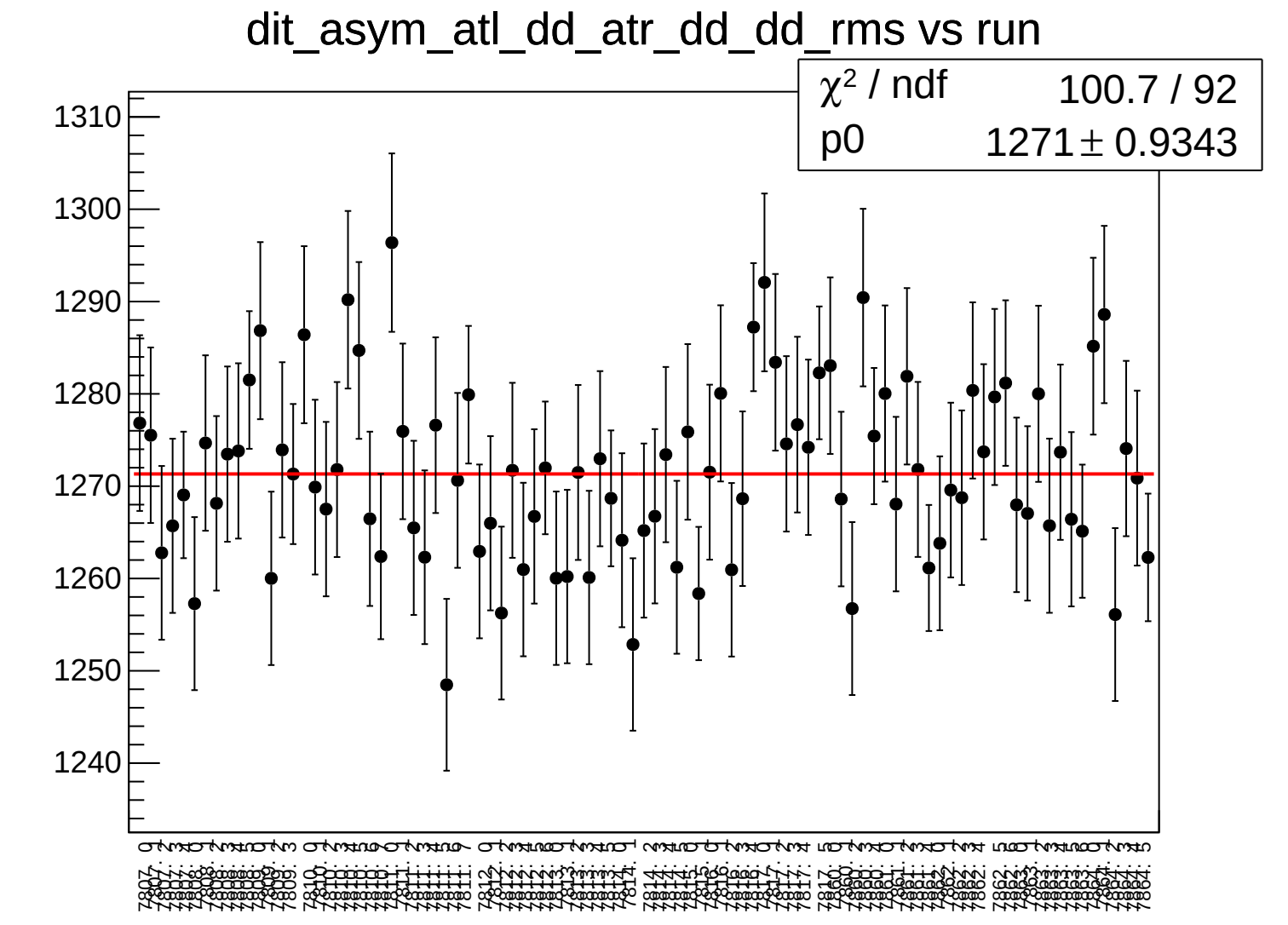

asym_atl_dd_atr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 84.38 / 92
p0 481.3 ± 1681
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −34.11
Std Dev 16.72
2
1
0
−1
−2

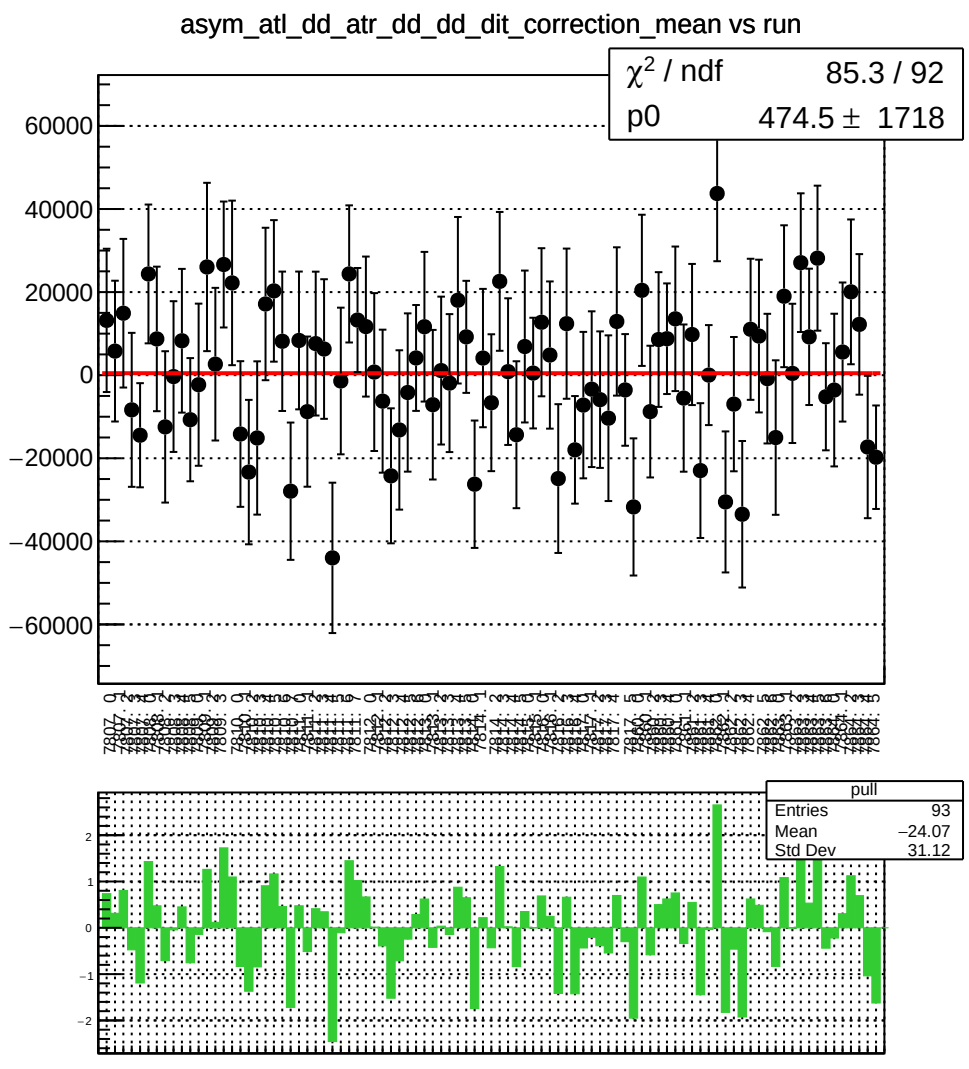

pull1D
Entries 93
Mean 0.01053
Std Dev 0.9525
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

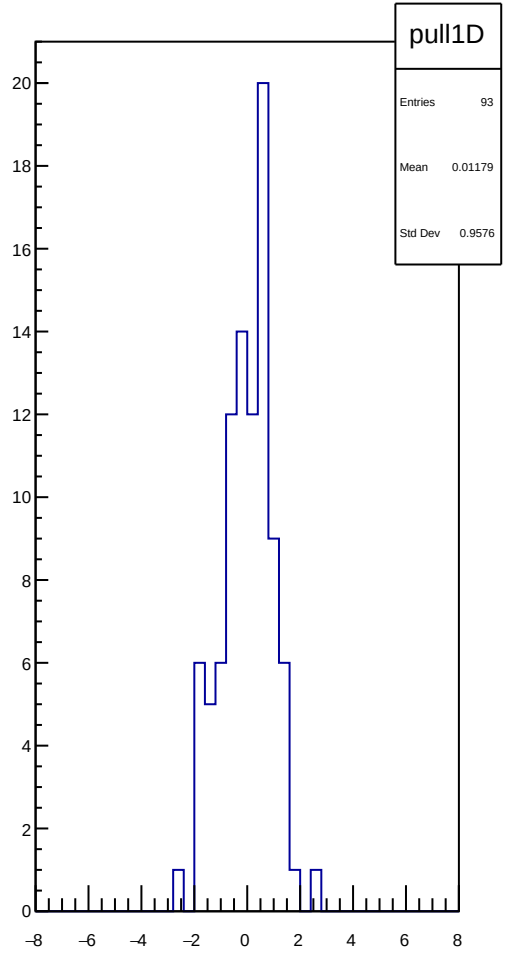

asym_atl_dd_atr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 5517 / 92
p0 1615 ± 1.189
1900
1800
1700
1600
1500
1400

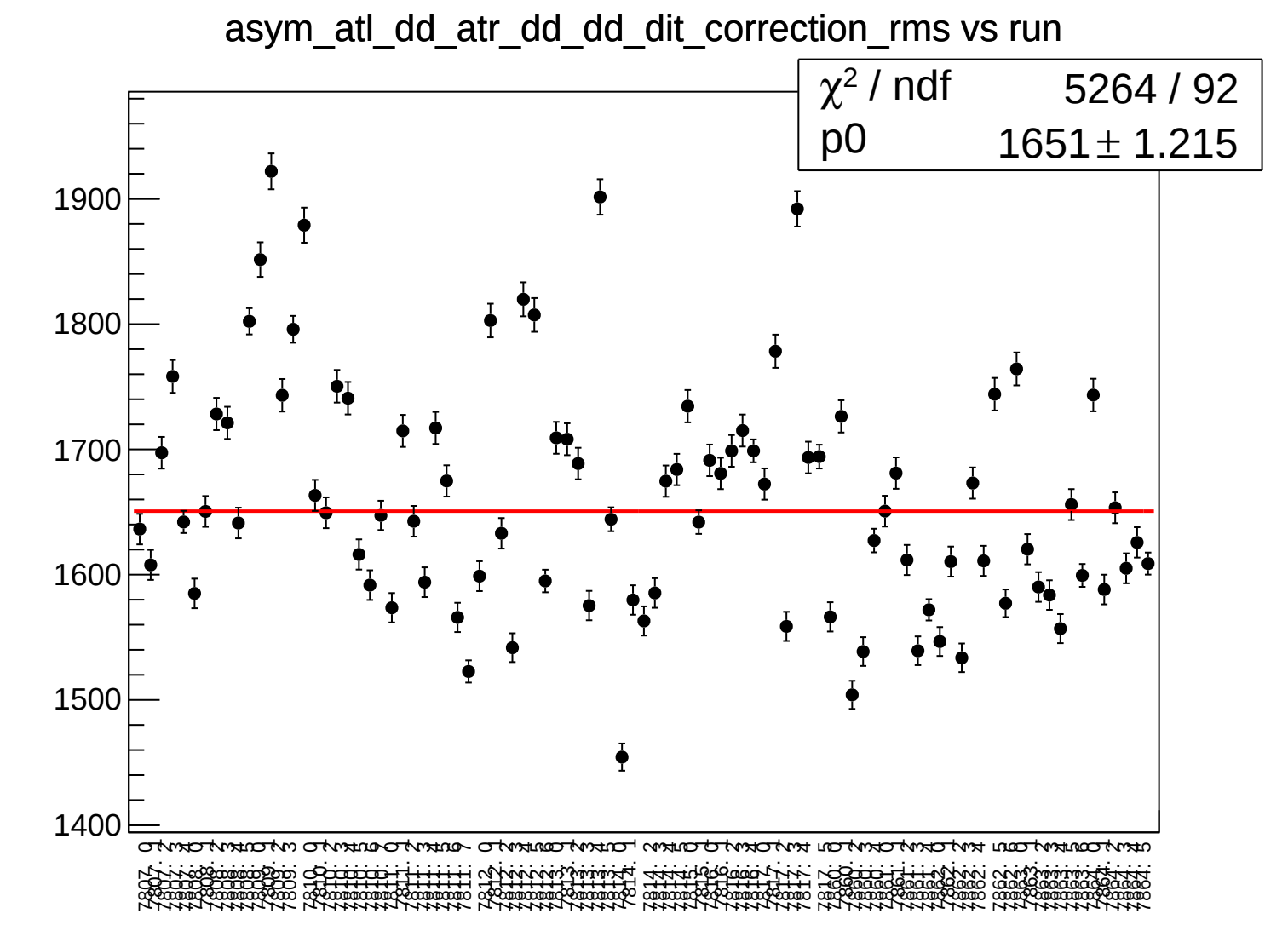

dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 76.38 / 92
p0 1113 ± 1321
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −80.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

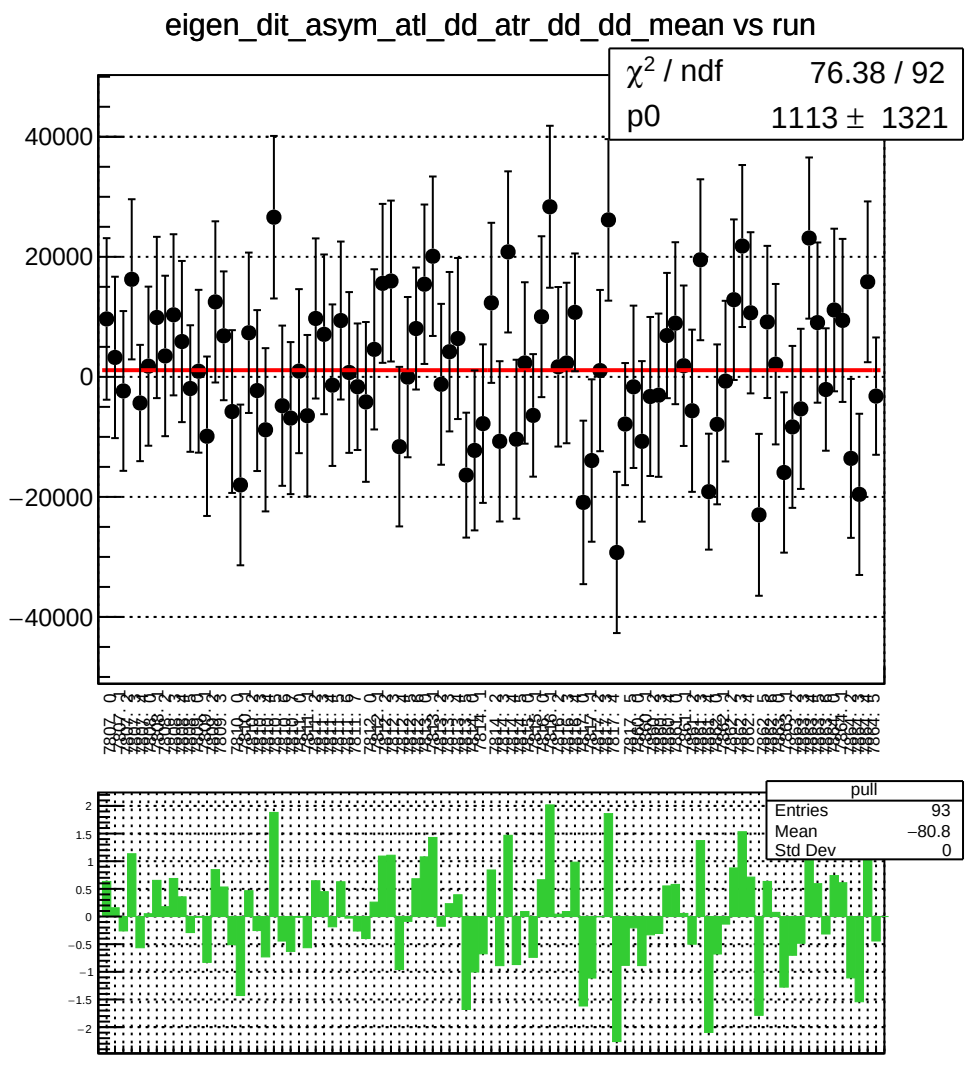

pull1D
Entries 93
Mean 0.01695
Std Dev 0.9061
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

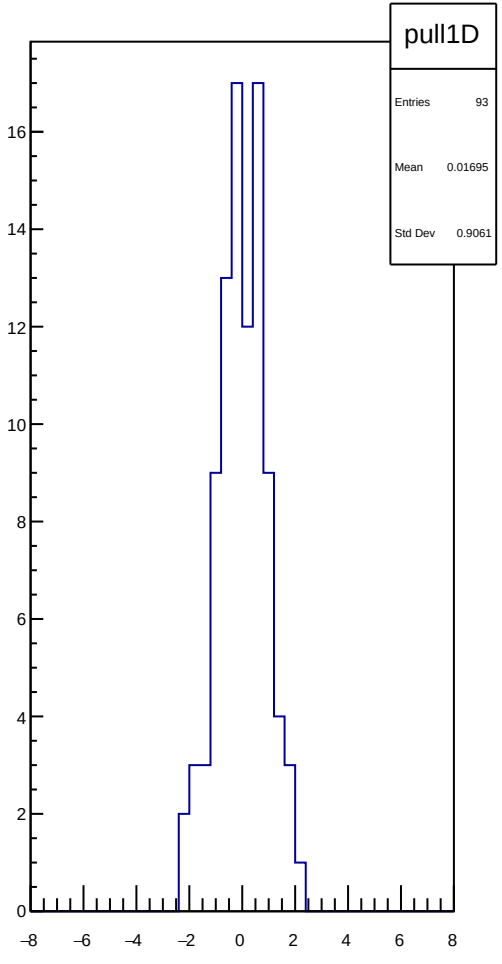

dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 100.7 / 92
p0 1271 ± 0.9343
1310
1300
1290
1280
1270
1260
1250
1240

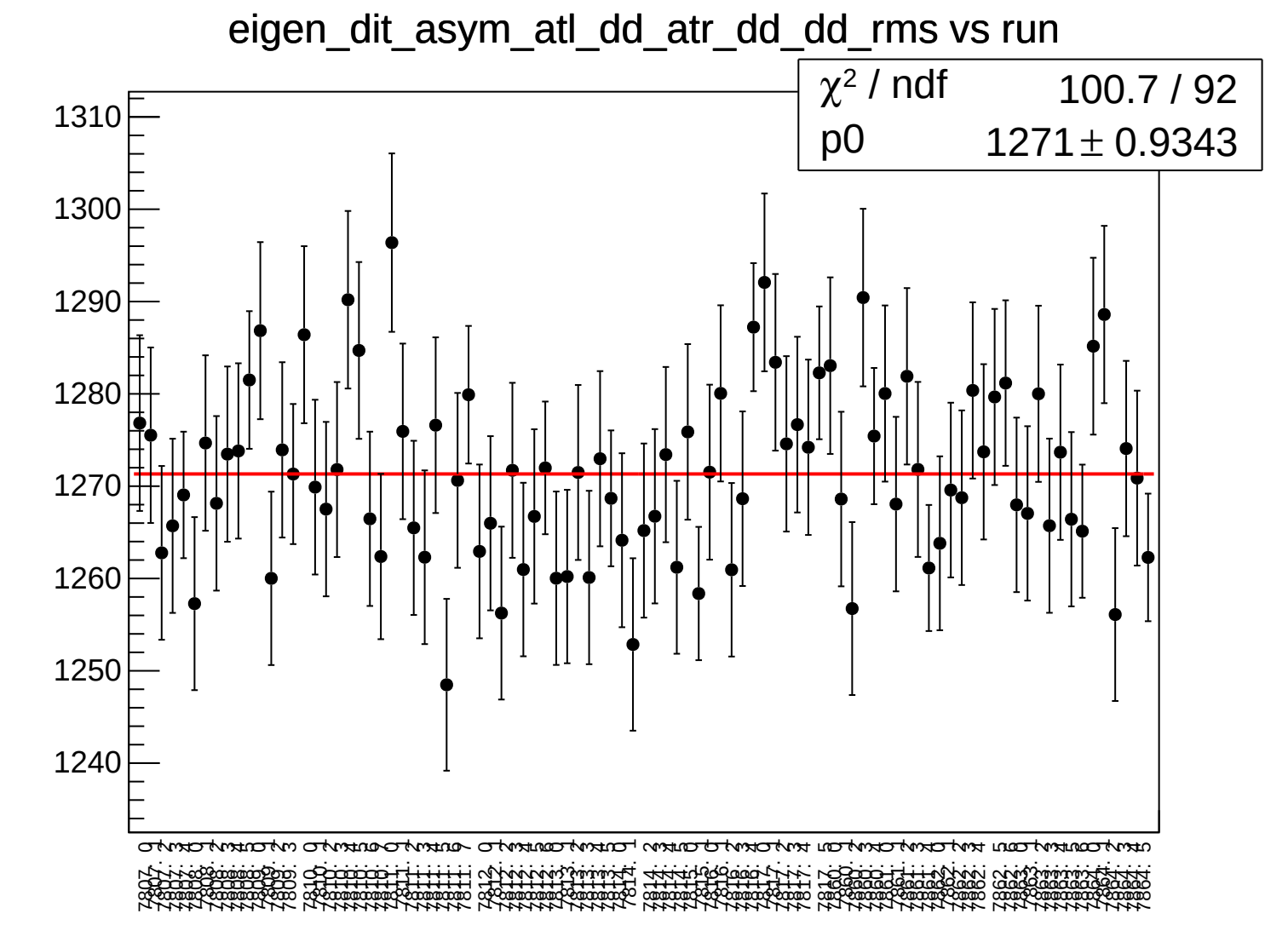

asym_atl_dd_atr_dd_dd_dit_correction_mean vs run
χ² / ndf 85.3 / 92
p0 474.5 ± 1718
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −24.07
Std Dev 31.12
2
1
0
−1
−2

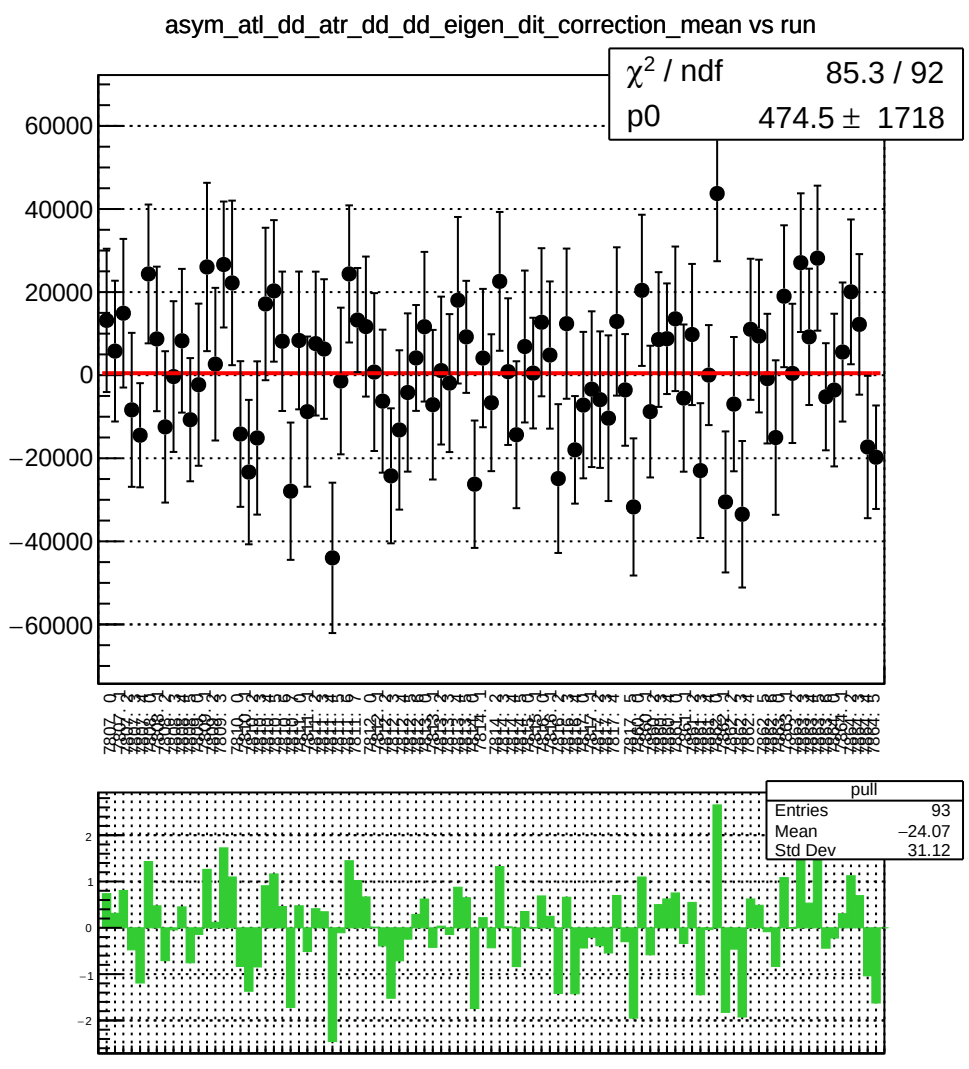

pull1D
Entries 93
Mean 0.01179
Std Dev 0.9576
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

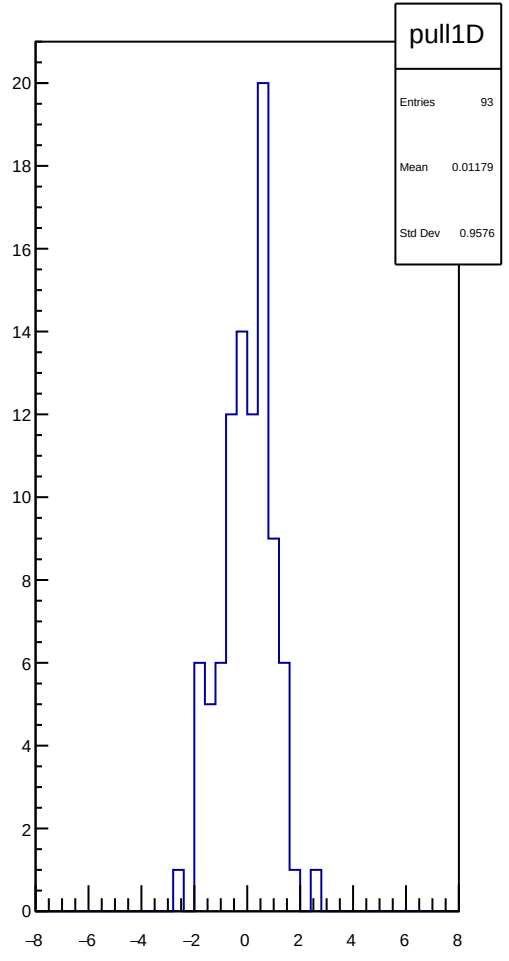

asym_atl_dd_atr_dd_dd_dit_correction_rms vs run
χ² / ndf 5264 / 92
p0 1651 ± 1.215
1900
1800
1700
1600
1500
1400

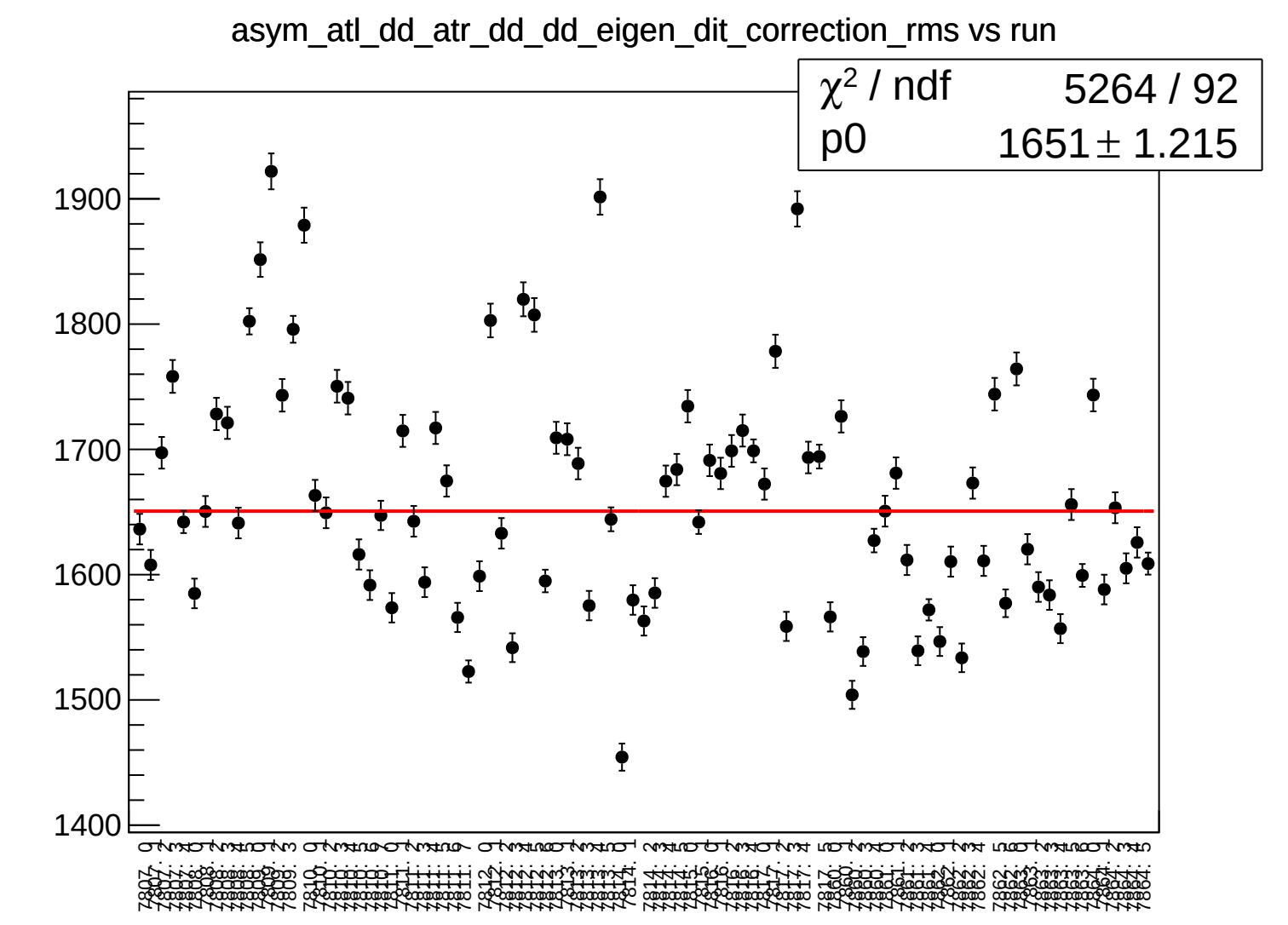

eigen_dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 76.38 / 92
p0 1113 ± 1321
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −80.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

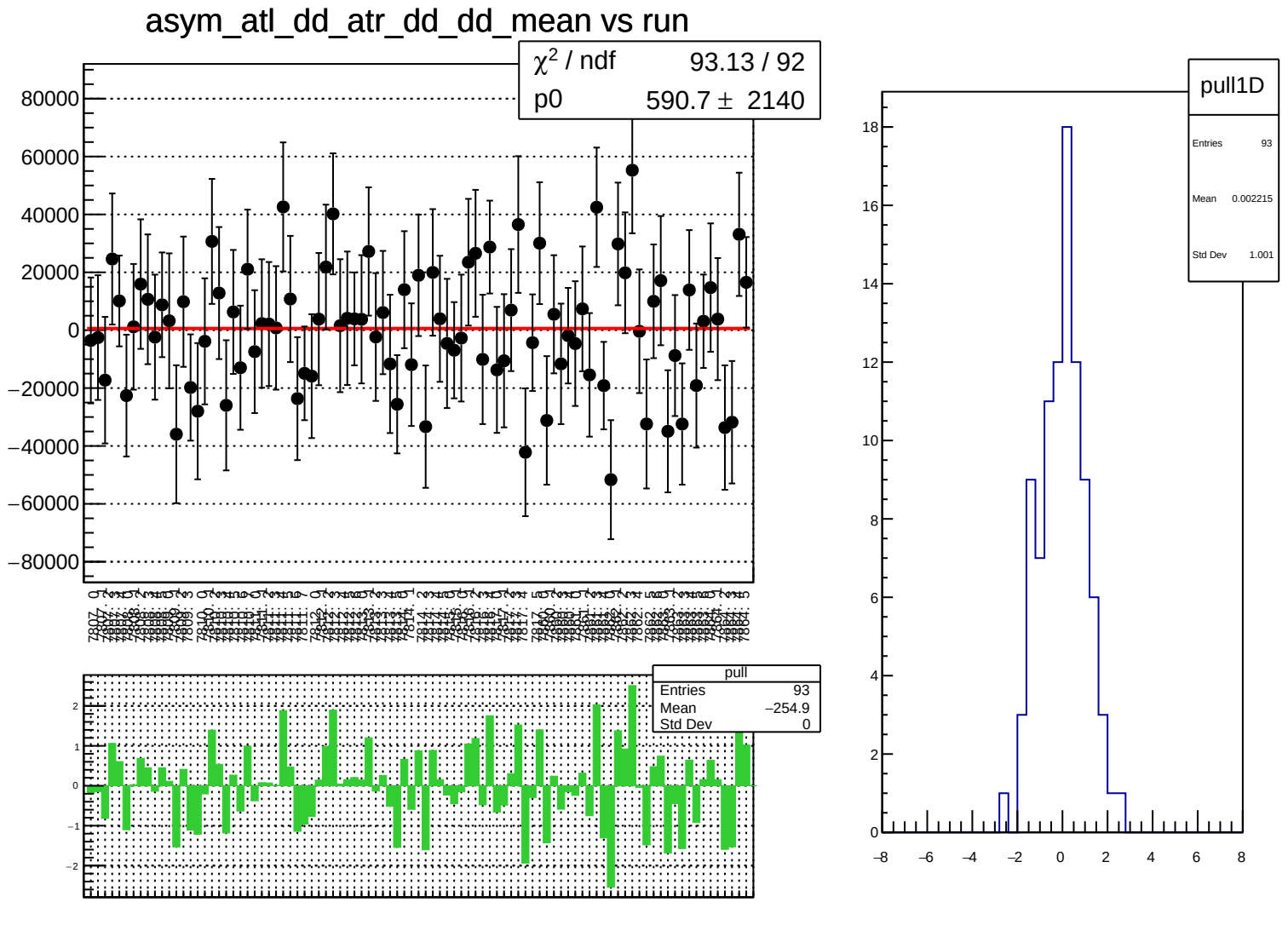

pull1D
Entries 93
Mean 0.01695
Std Dev 0.9061
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

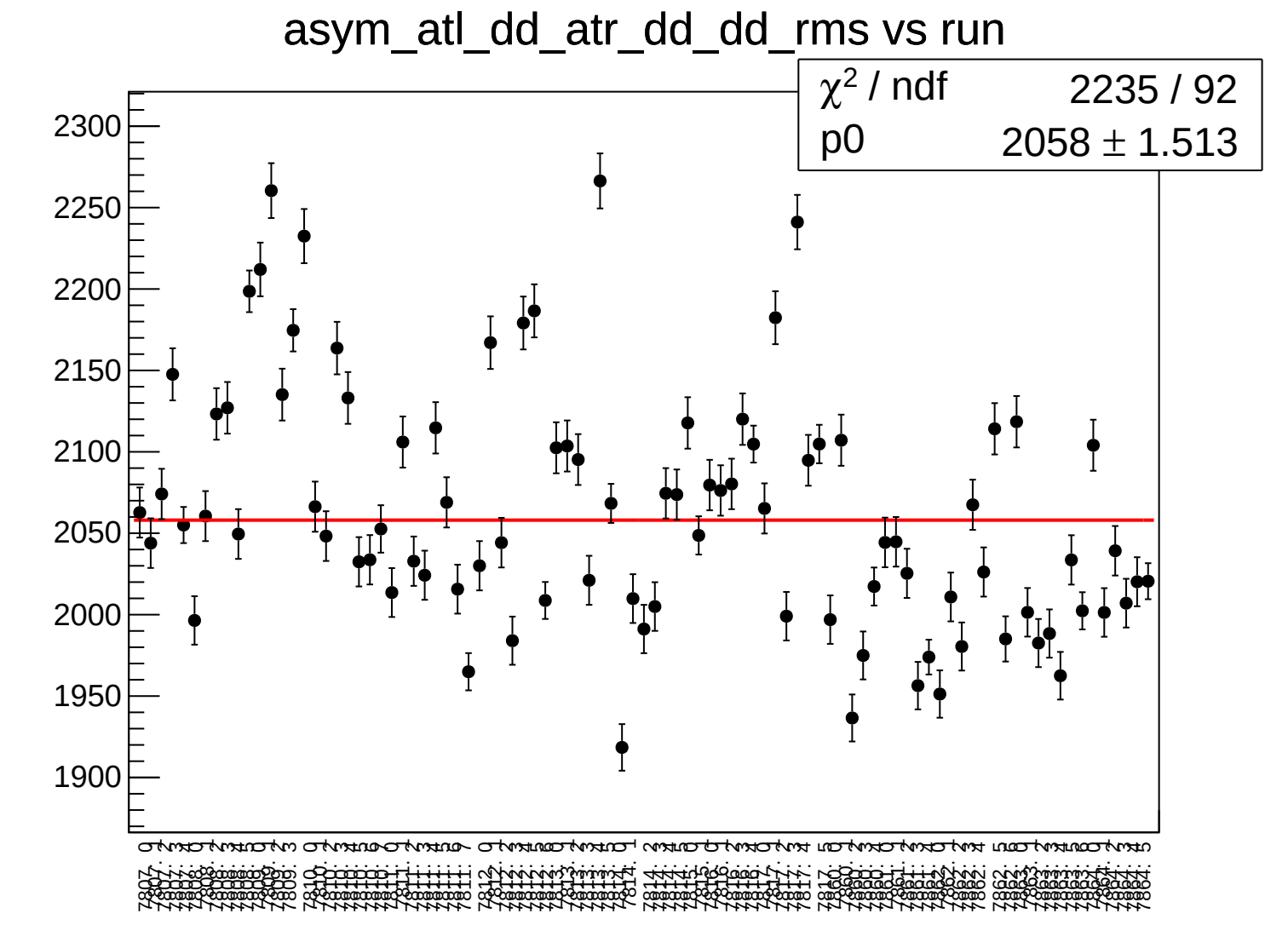

eigen_dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 100.7 / 92
p0 1271 ± 0.9343
1310
1300
1290
1280
1270
1260
1250
1240

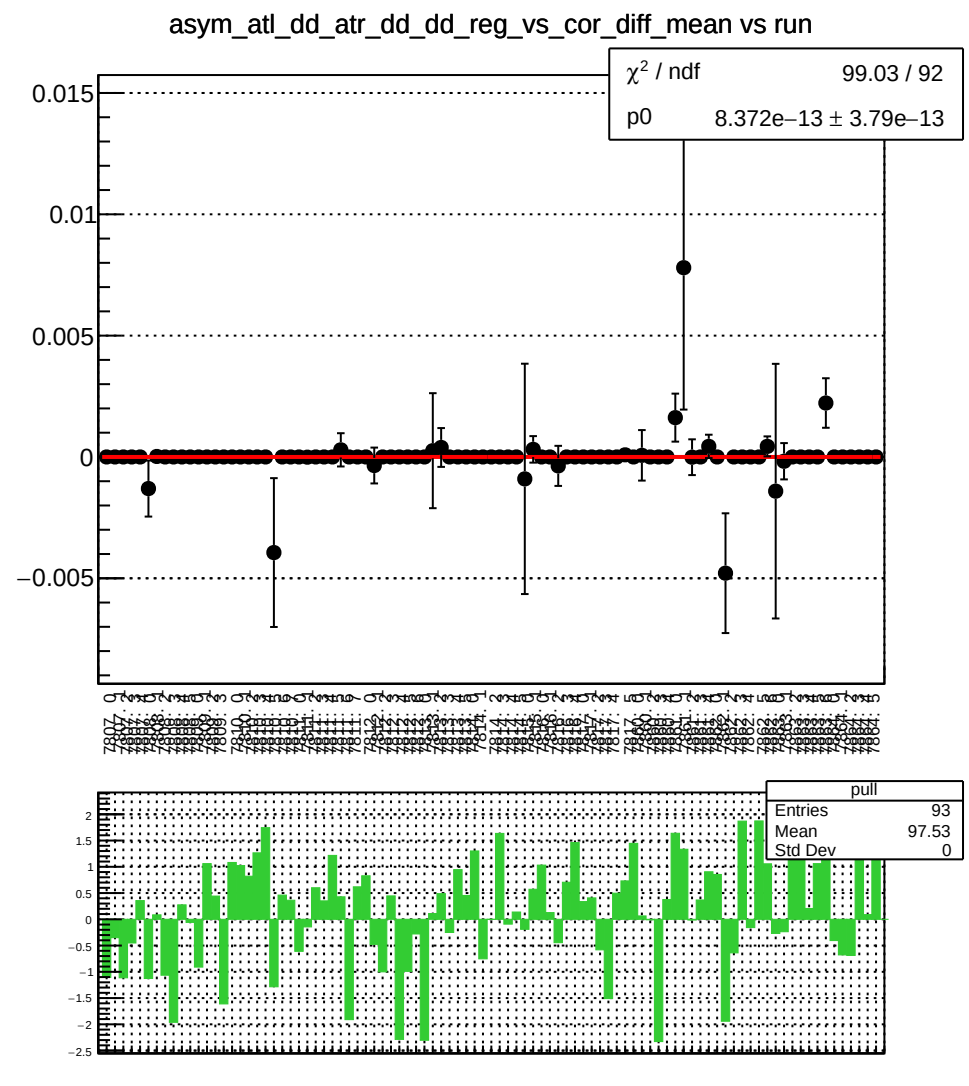

asym_atl_dd_atr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 85.3 / 92
p0 474.5 ± 1718
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −24.07
Std Dev 31.12
2
1
0
−1
−2

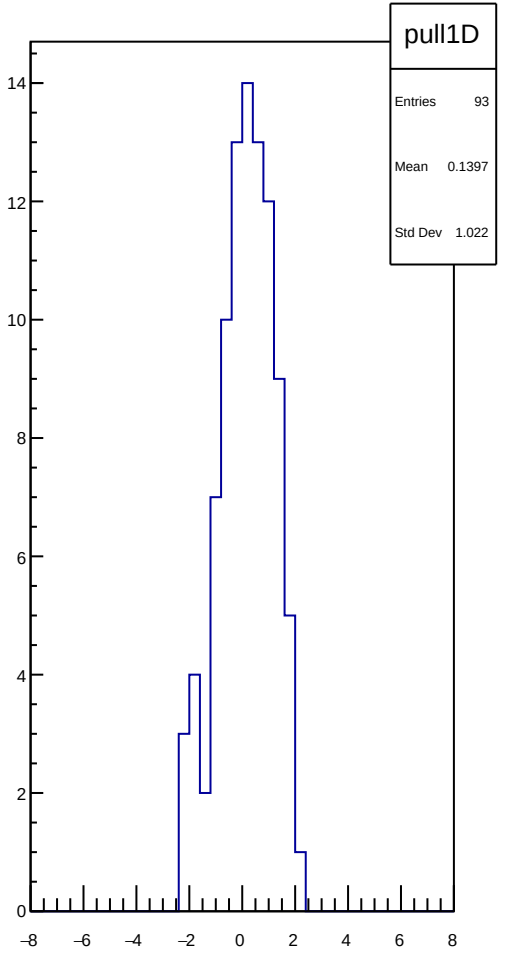

pull1D
Entries 93
Mean 0.01179
Std Dev 0.9576
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

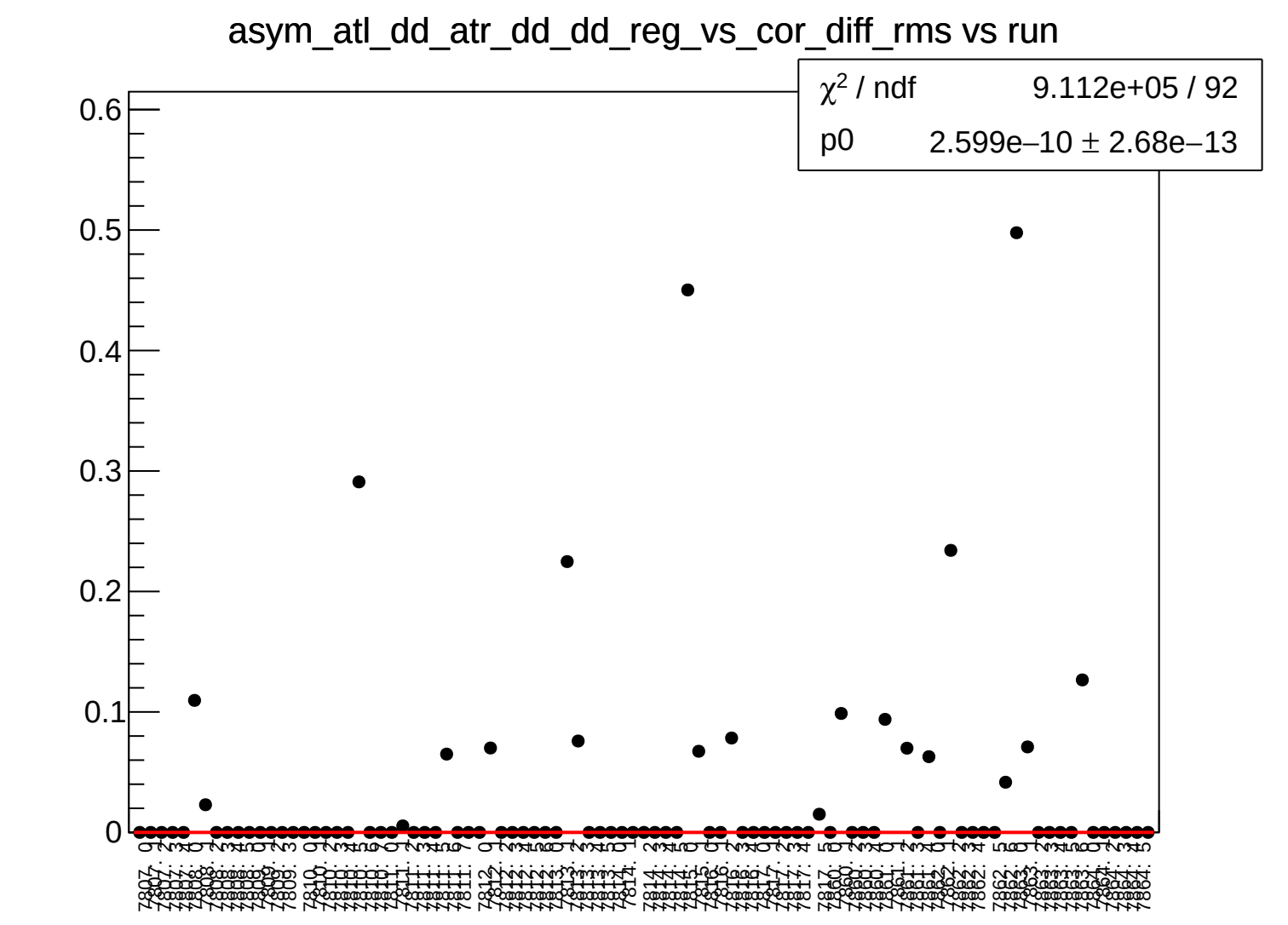

asym_atl_dd_atr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 5264 / 92
p0 1651 ± 1.215
1900
1800
1700
1600
1500
1400

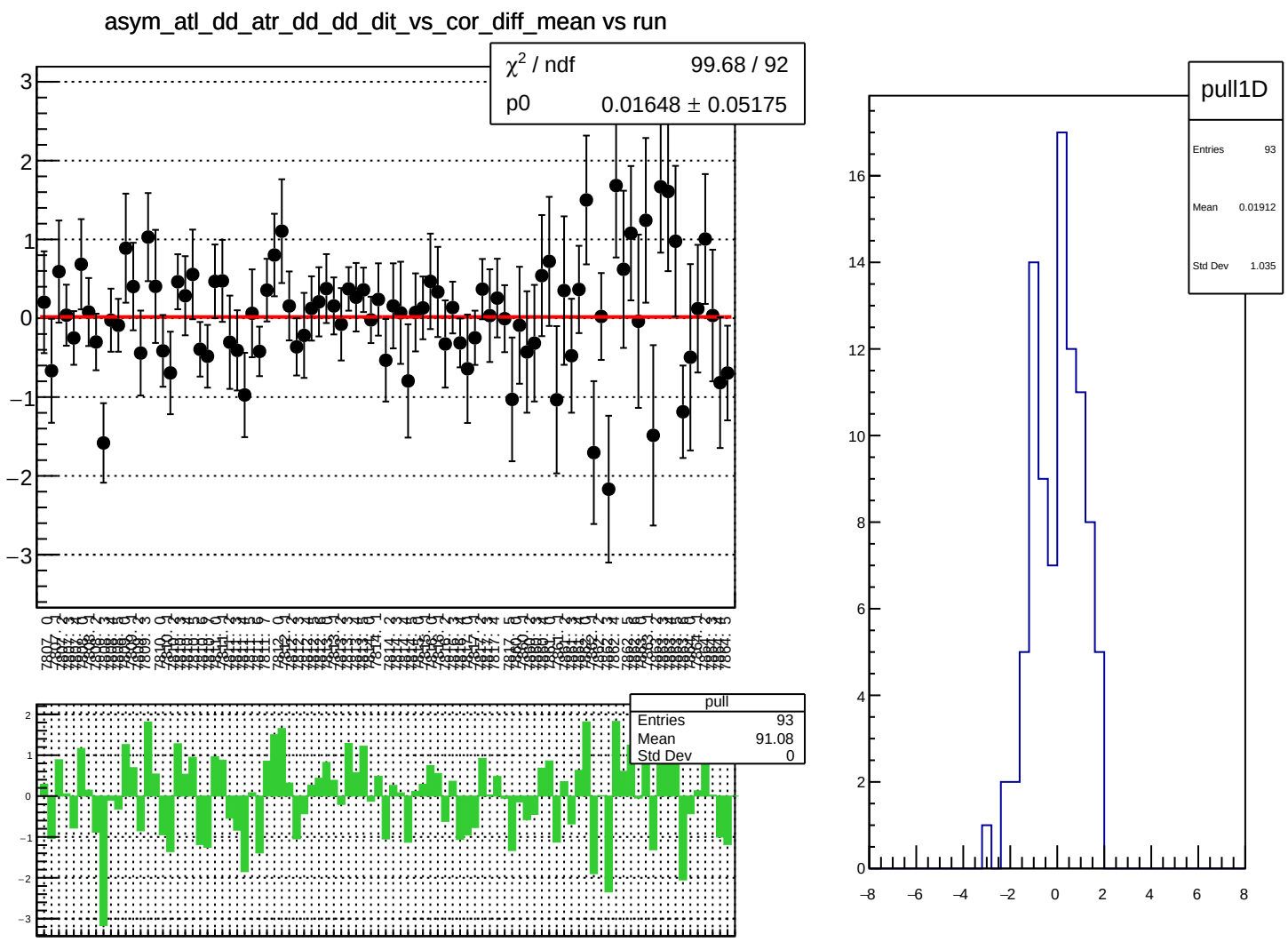

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 93.13 / 92
p0 590.7 ± 2140
pull
Entries 93
Mean −254.9
Std Dev 0
pull1D
Entries 93
Mean 0.002215
Std Dev 1.001

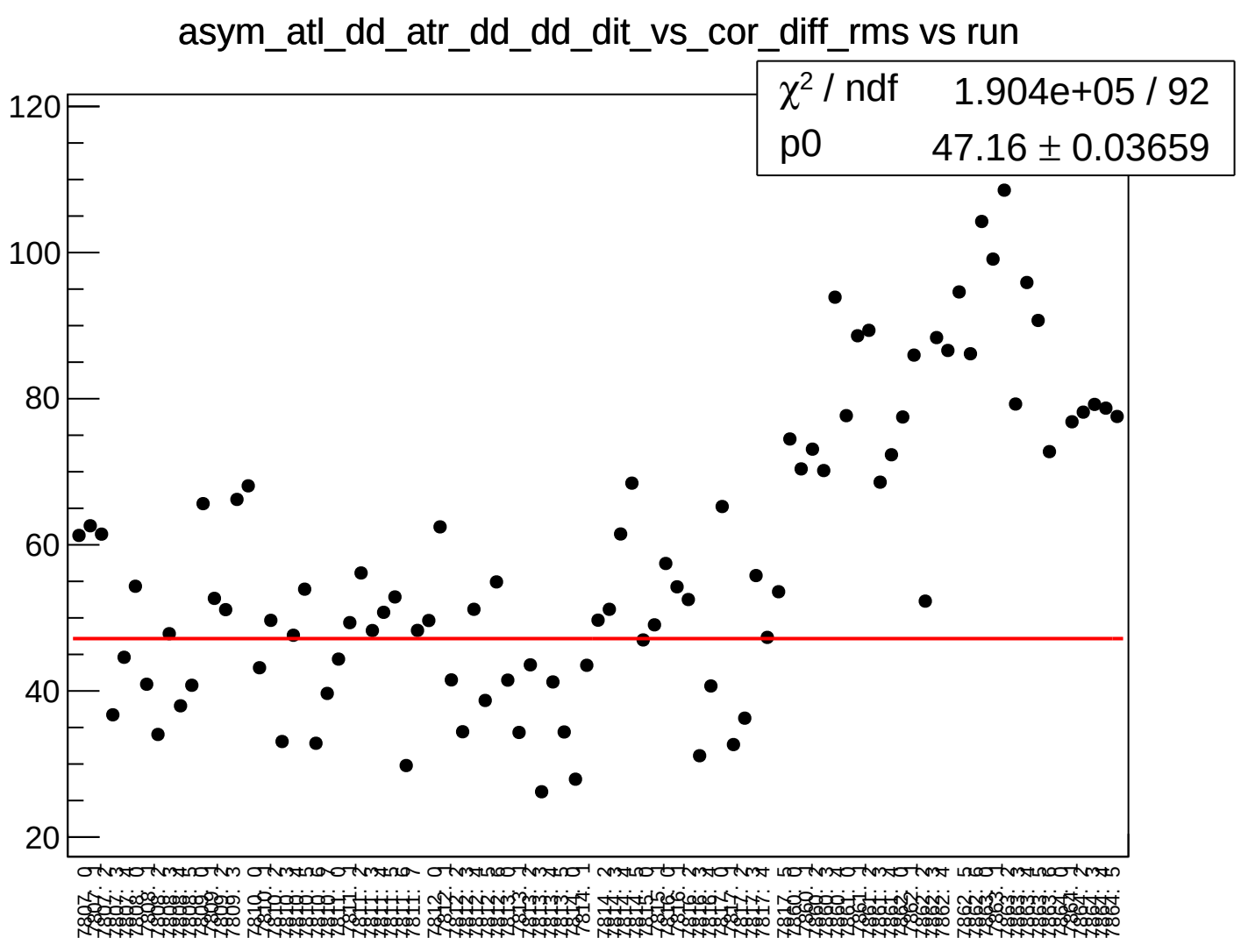

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 2235 / 92
p0 2058 ± 1.513
2300
2250
2200
2150
2100
2050
2000
1950
1900

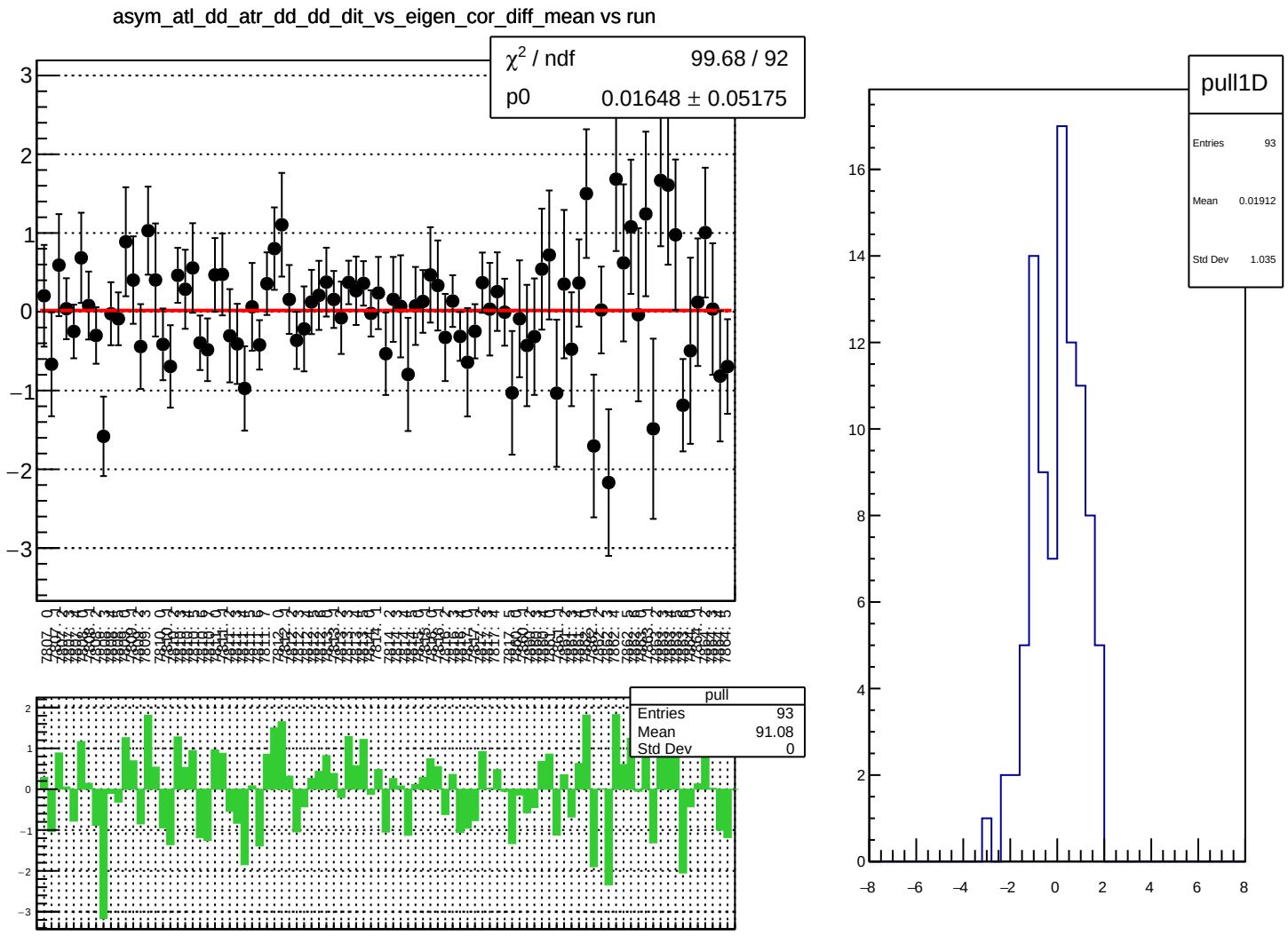

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 99.03 / 92
p0 8.372e−13 ± 3.79e−13
0.015
0.01
0.005
0
−0.005
pull
Entries 93
Mean 97.53
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

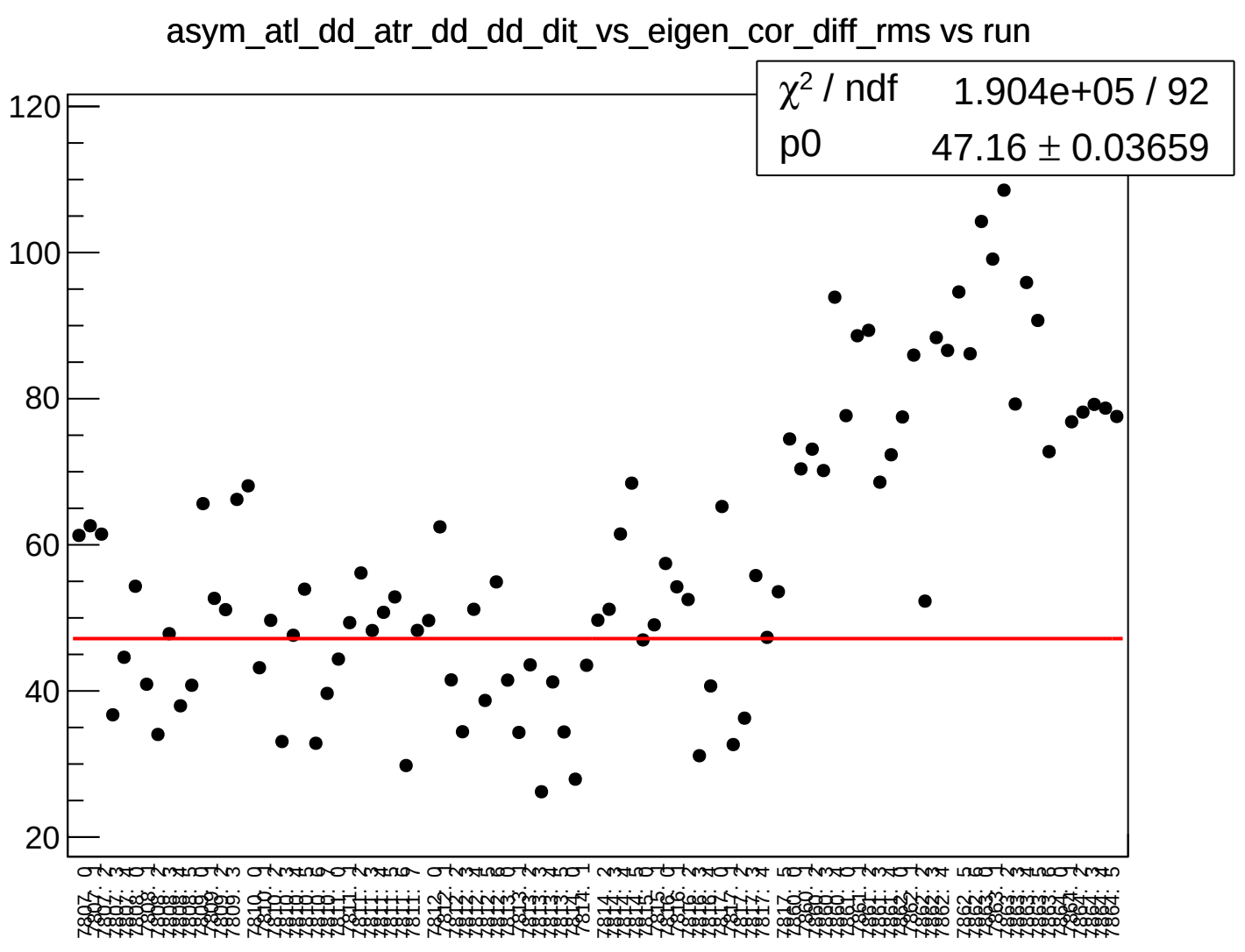

pull1D
Entries 93
Mean 0.1397
Std Dev 1.022
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

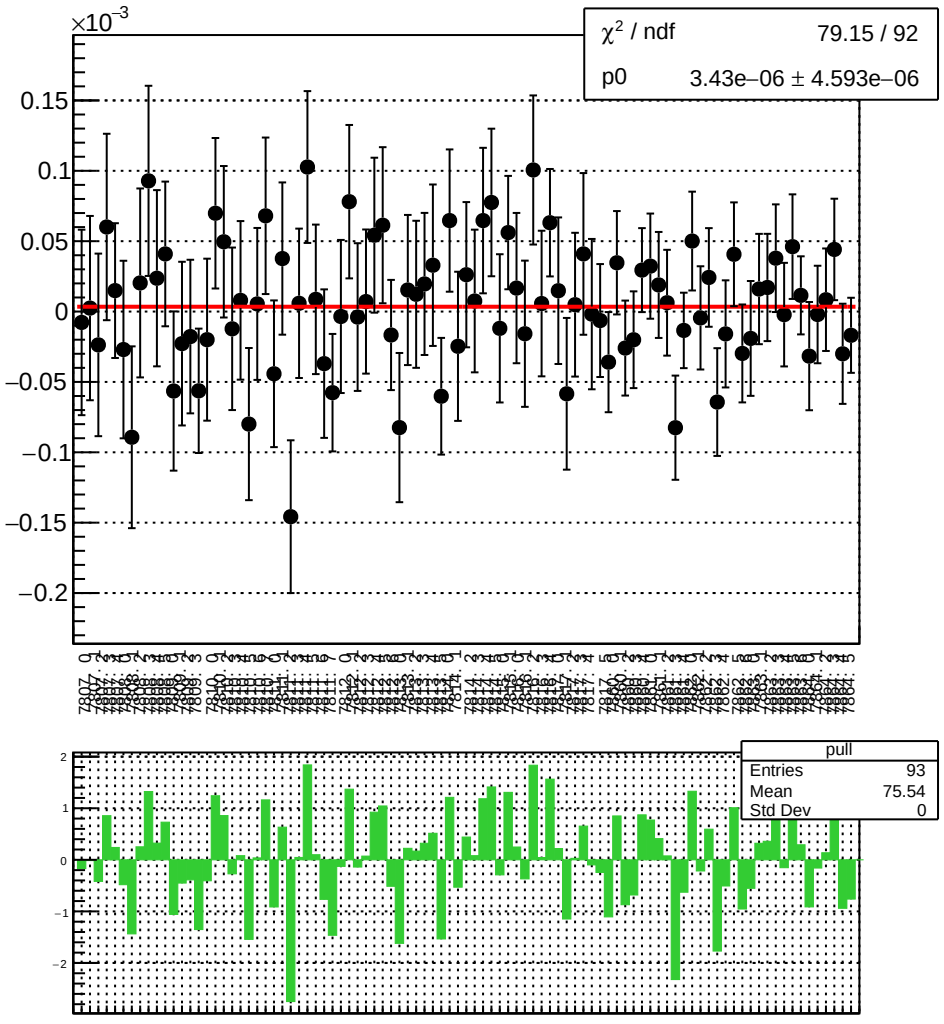

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.112e+05 / 92
p0 2.599e−10 ± 2.68e−13
0.6
0.5
0.4
0.3
0.2
0.1
0

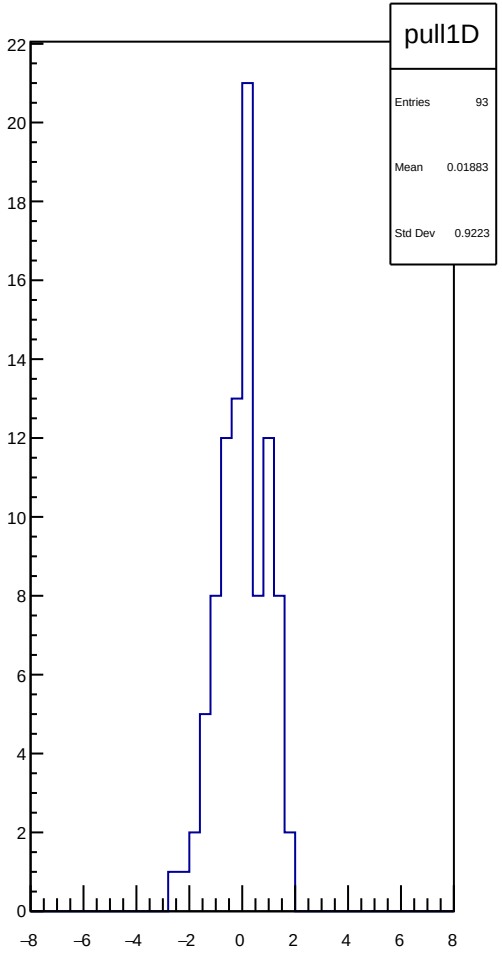

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 99.68 / 92
p0 0.01648 ± 0.05175
pull
Entries 93
Mean 91.08
Std Dev 0
pull1D
Entries 93
Mean 0.01912
Std Dev 1.035

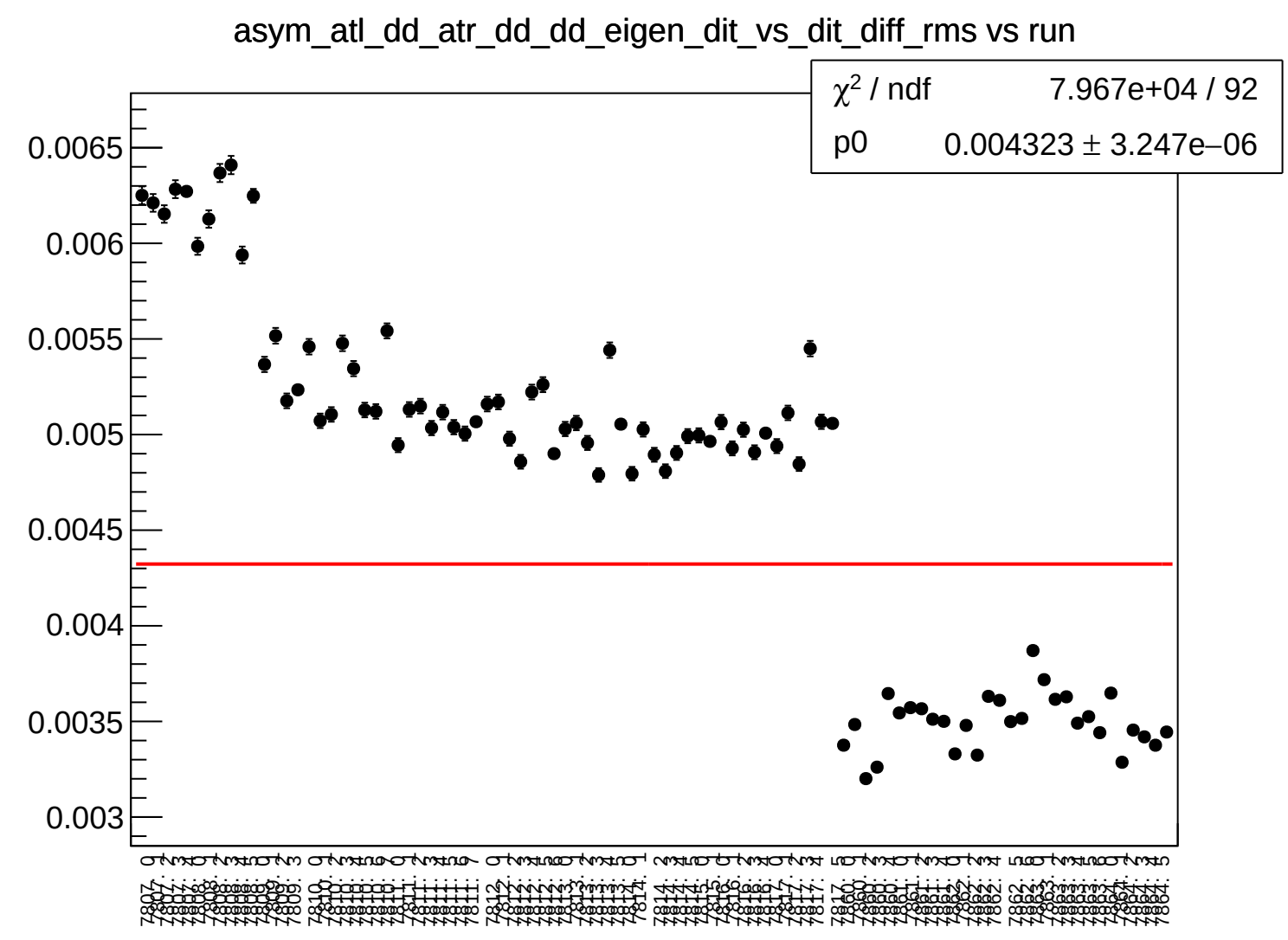

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.904e+05 / 92
p0 47.16 ± 0.03659
120
100
80
60
40
20

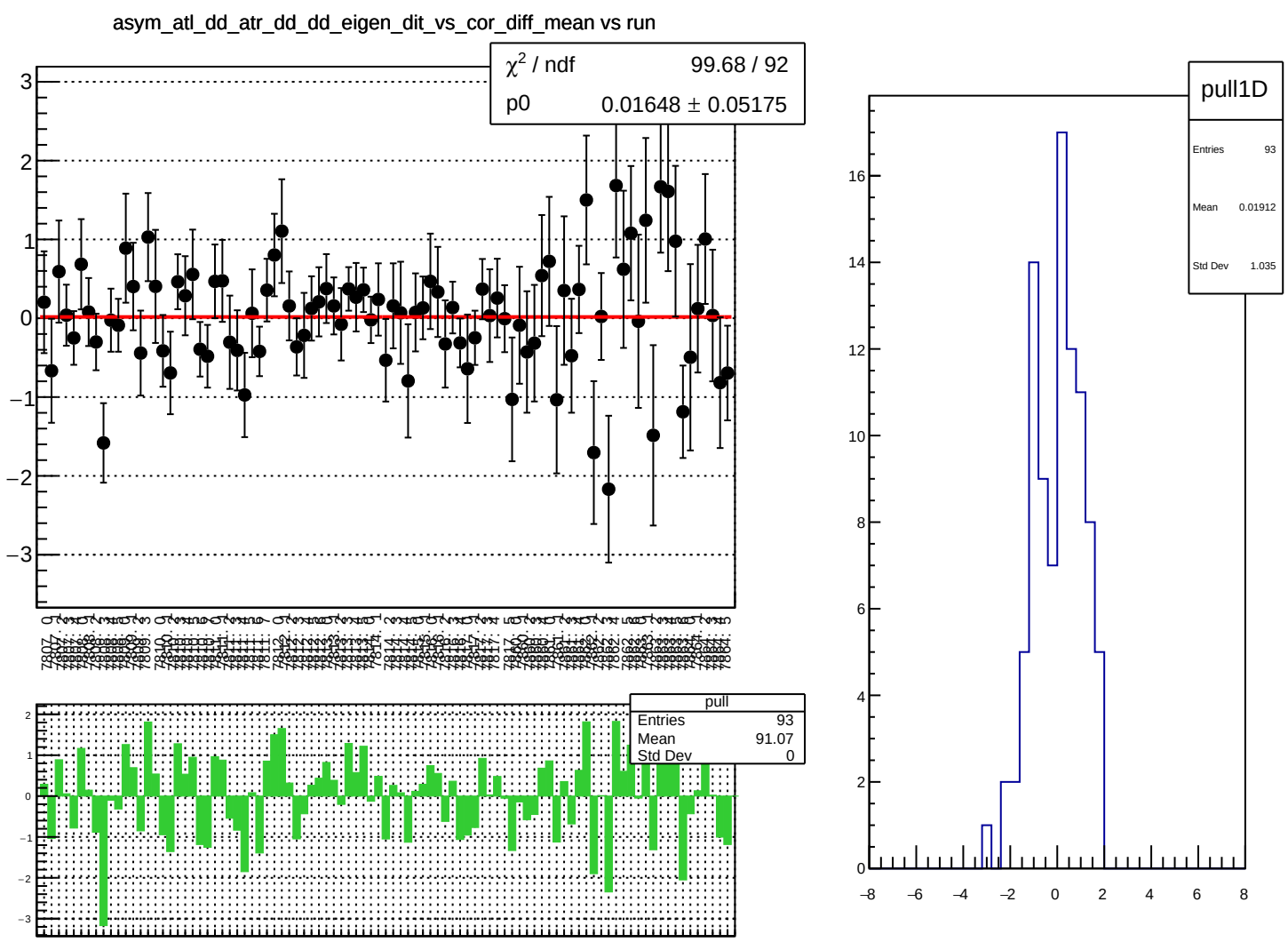

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.68 / 92
p0 0.01648 ± 0.05175
pull
Entries 93
Mean 91.08
Std Dev 0
pull1D
Entries 93
Mean 0.01912
Std Dev 1.035

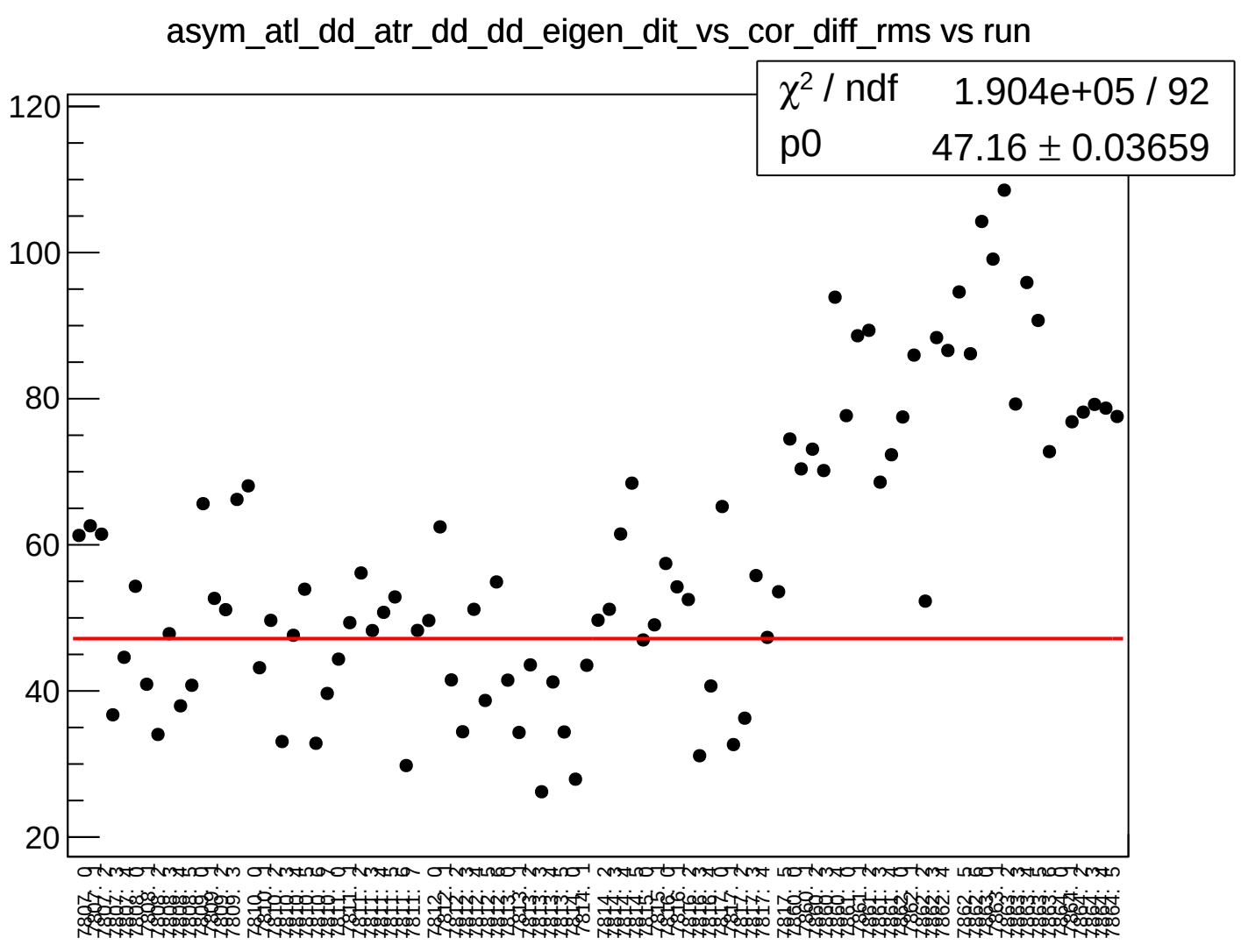

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.904e+05 / 92
p0 47.16 ± 0.03659
120
100
80
60
40
20

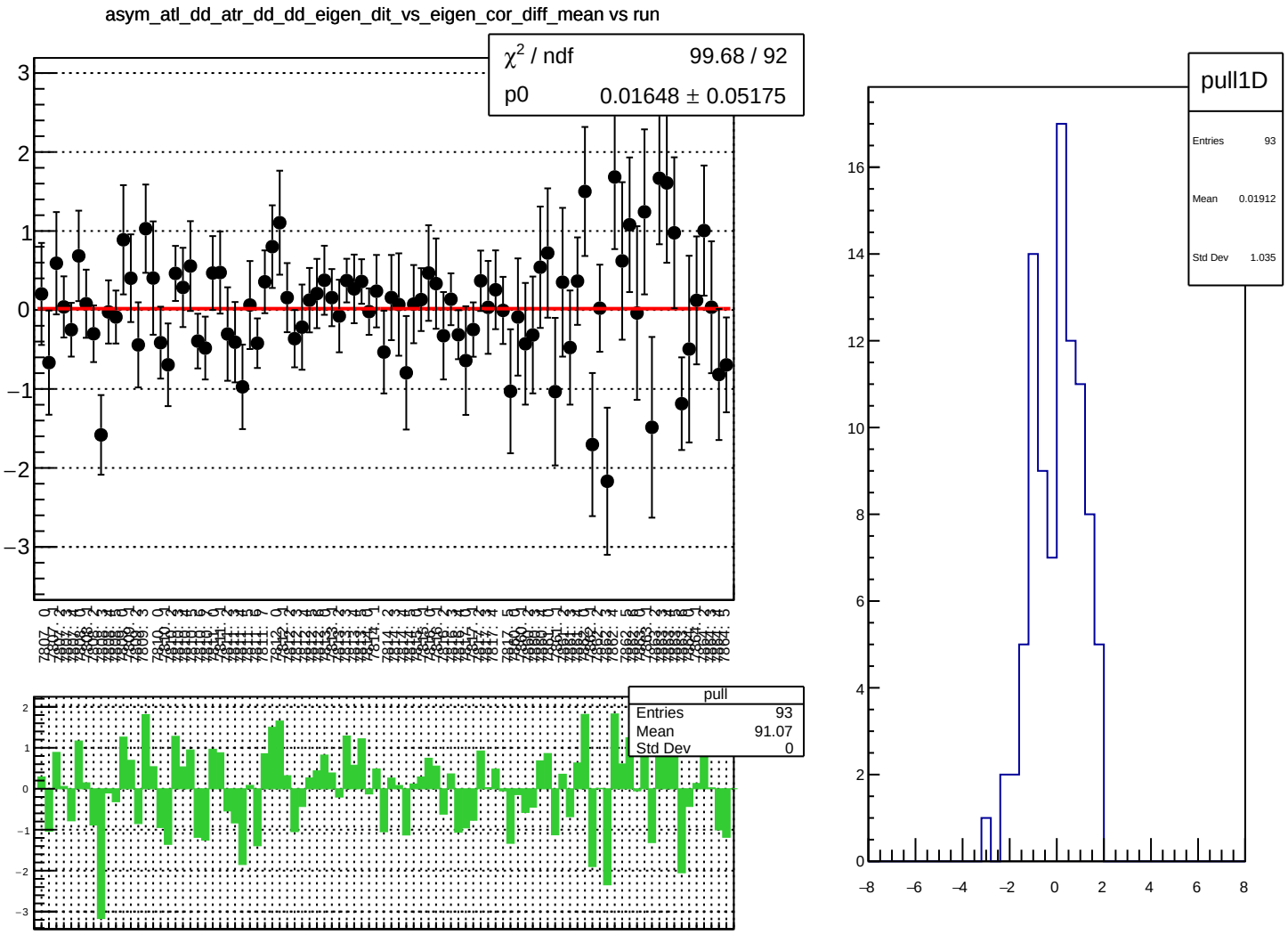

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 79.15 / 92
p0 3.43e−06 ± 4.593e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
pull
Entries 93
Mean 75.54
Std Dev 0
2
1
0
−1
−2

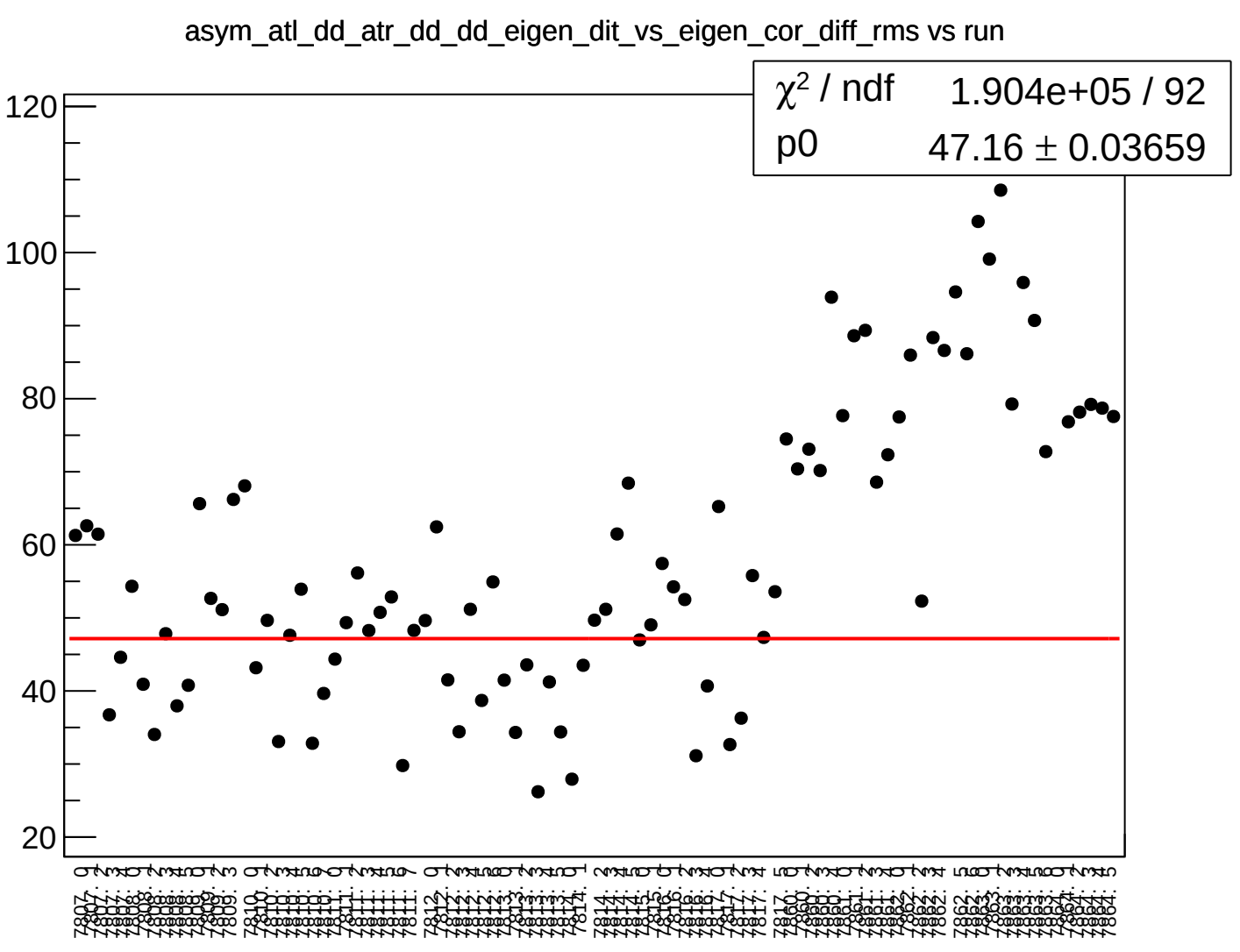

pull1D
Entries 93
Mean 0.01883
Std Dev 0.9223
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

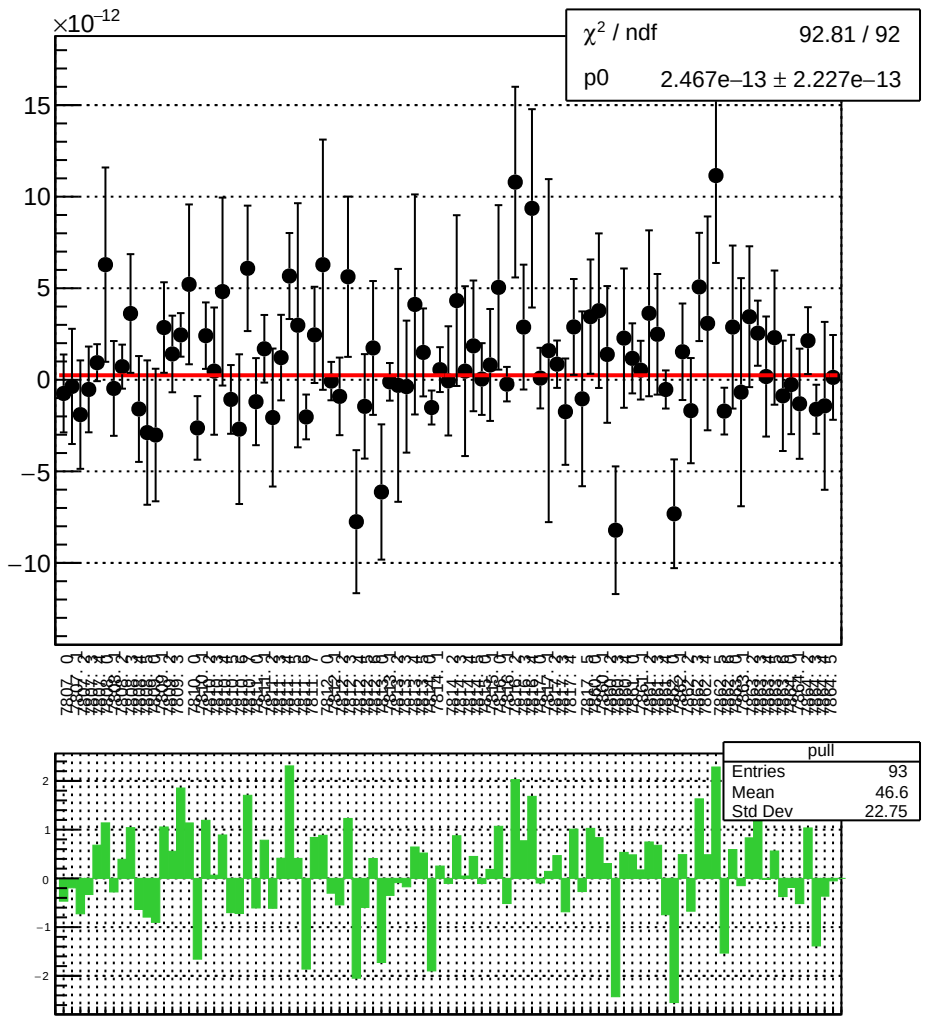

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.967e+04 / 92
p0 0.004323 ± 3.247e−06
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003

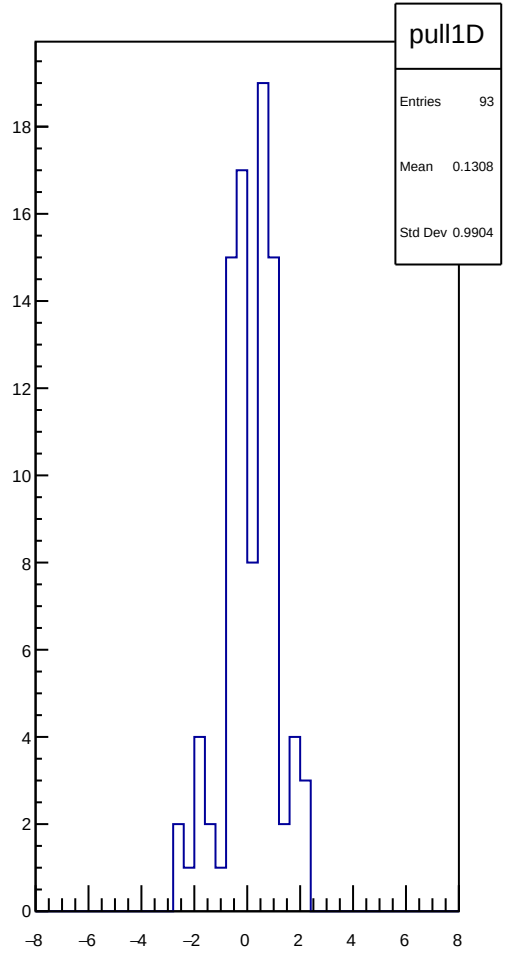

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 99.68 / 92
p0 0.01648 ± 0.05175
pull
Entries 93
Mean 91.07
Std Dev 0
pull1D
Entries 93
Mean 0.01912
Std Dev 1.035

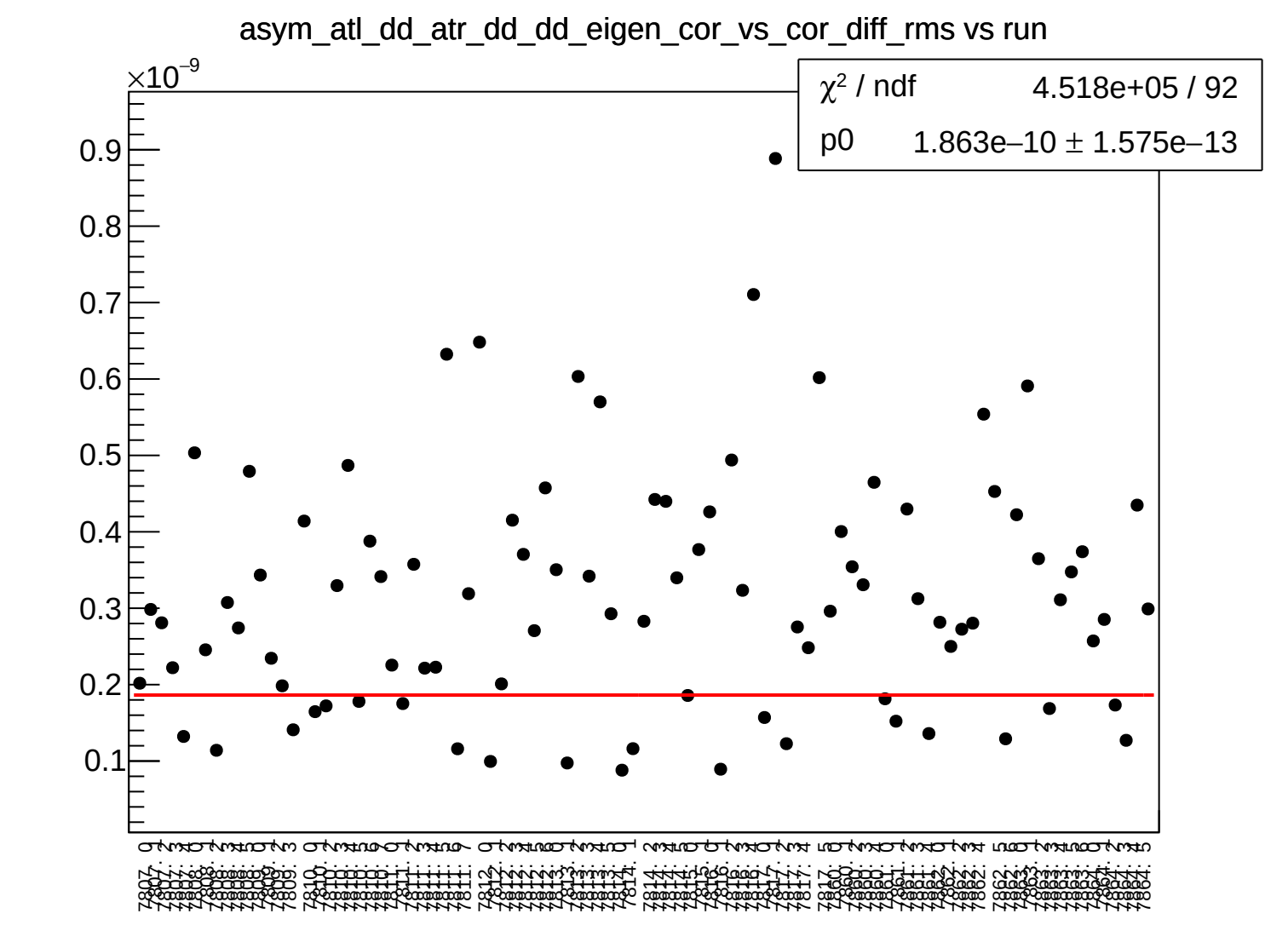

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.904e+05 / 92
p0 47.16 ± 0.03659
120
100
80
60
40
20

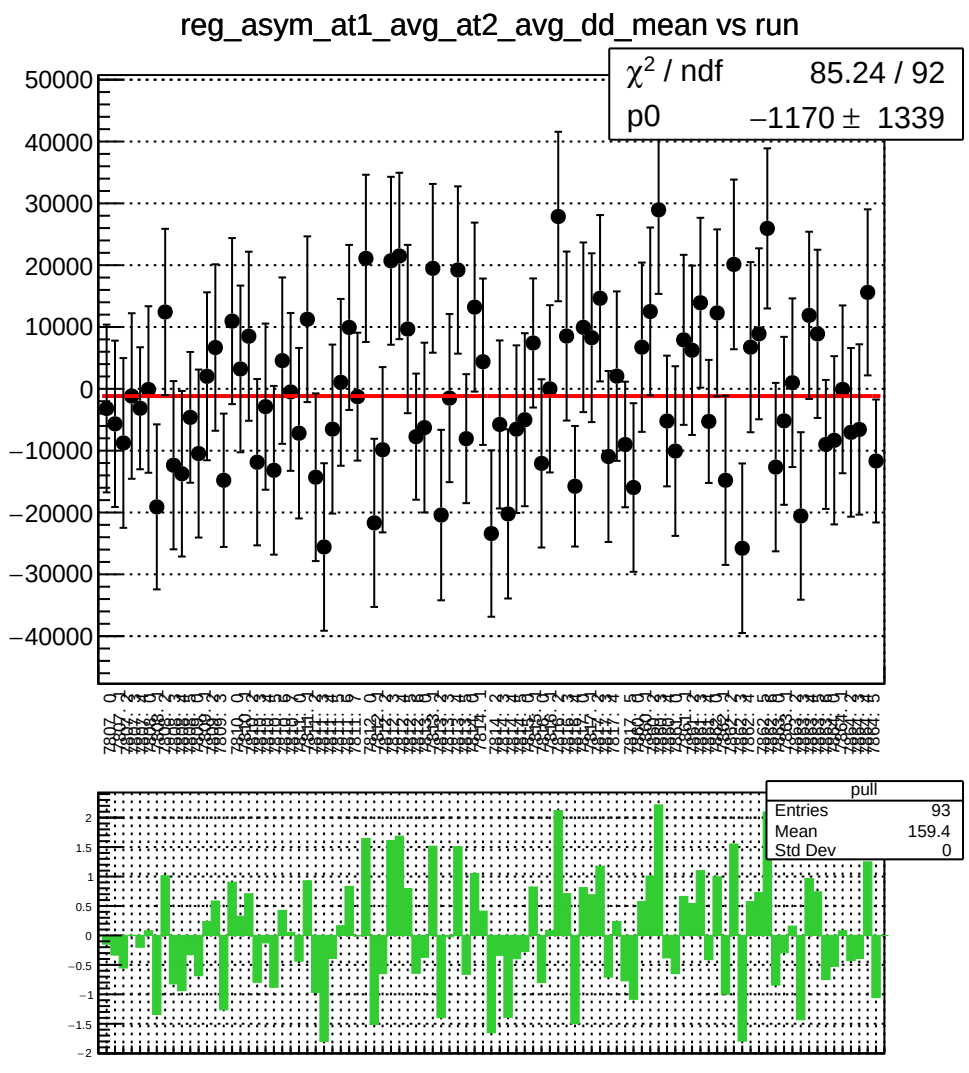

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.68 / 92
p0 0.01648 ± 0.05175
pull
Entries 93
Mean 91.07
Std Dev 0
pull1D
Entries 93
Mean 0.01912
Std Dev 1.035

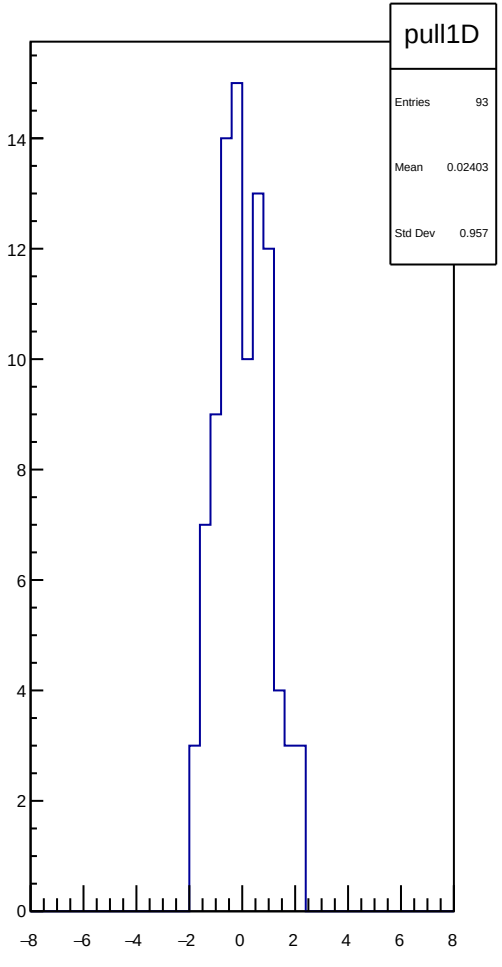

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.904e+05 / 92
p0 47.16 ± 0.03659
120
100
80
60
40
20

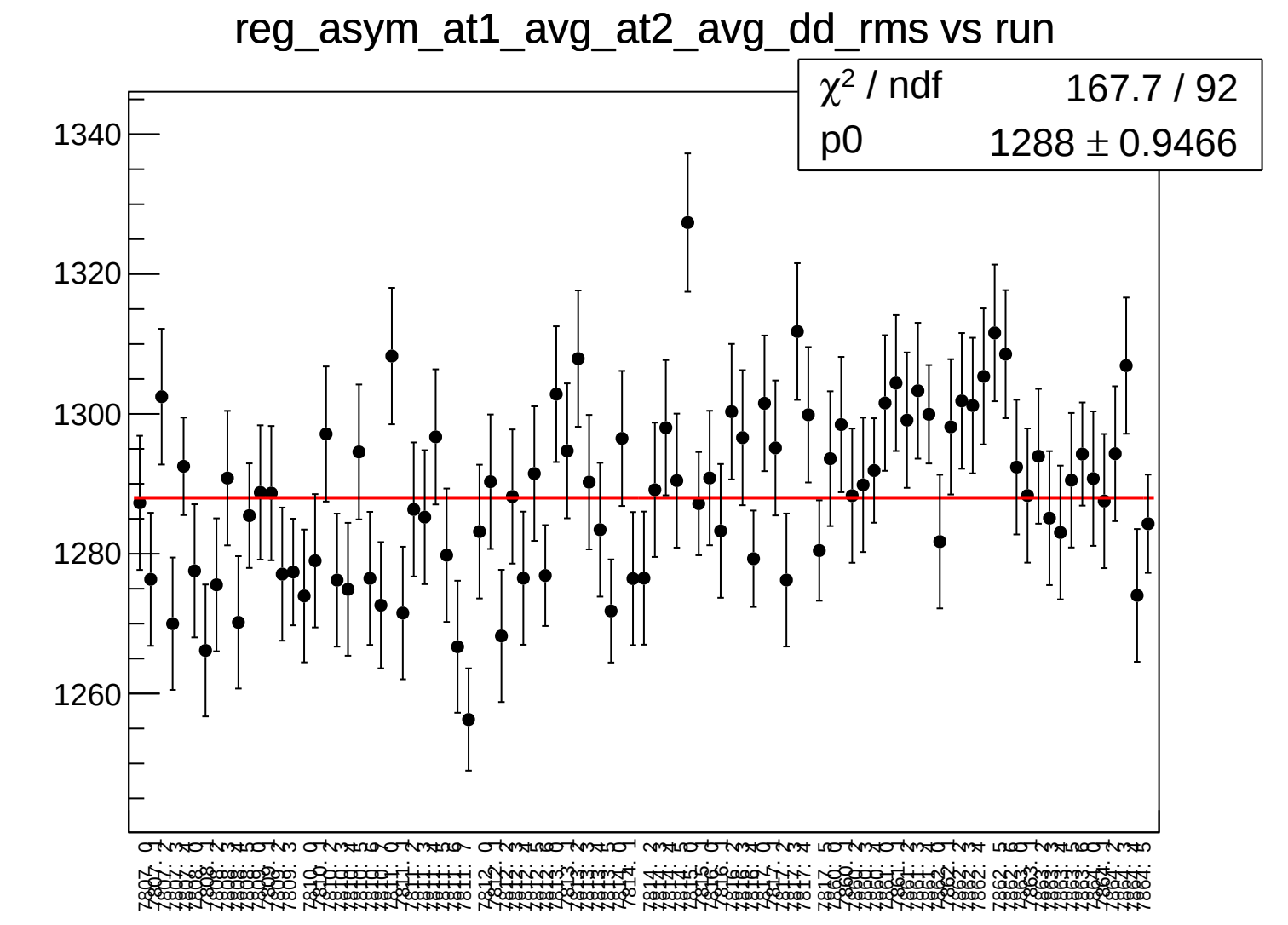

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.81 / 92
p0 2.467e−13 ± 2.227e−13
15
10
5
0
−5
−10
pull
Entries 93
Mean 46.6
Std Dev 22.75
2
1
0
−1
−2

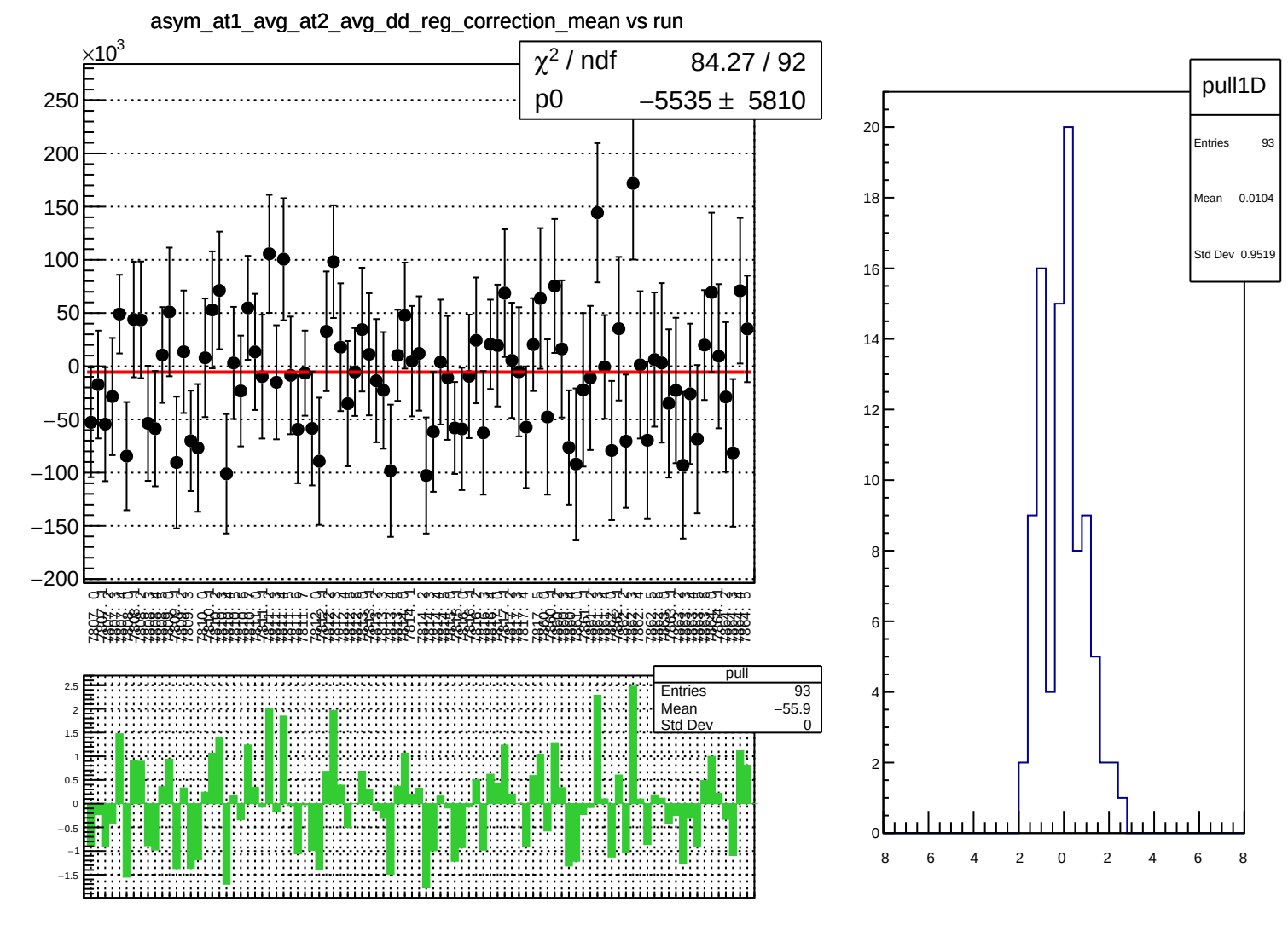

pull1D
Entries 93
Mean 0.1308
Std Dev 0.9904
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

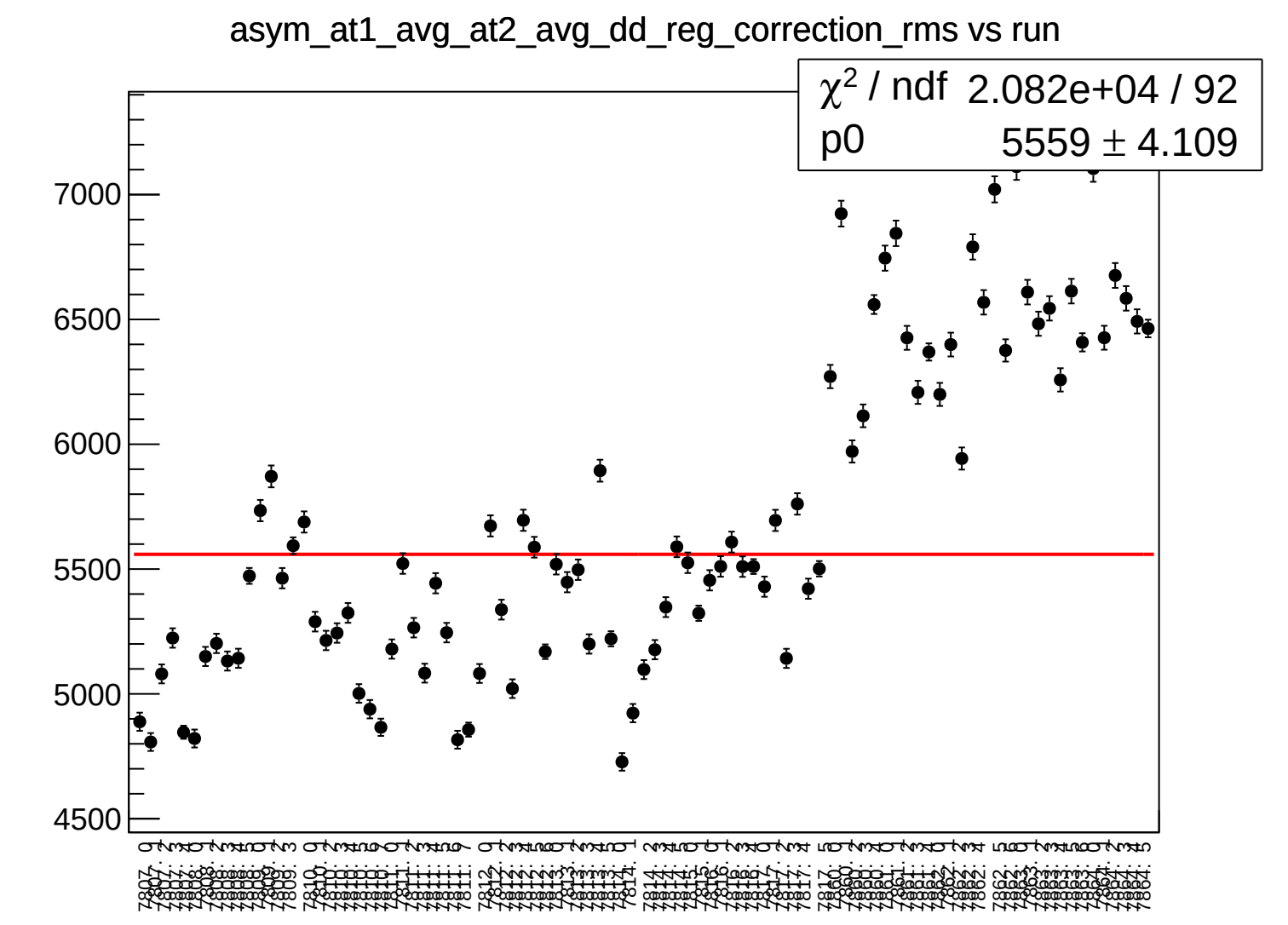

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.518e+05 / 92
p0 1.863e−10 ± 1.575e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

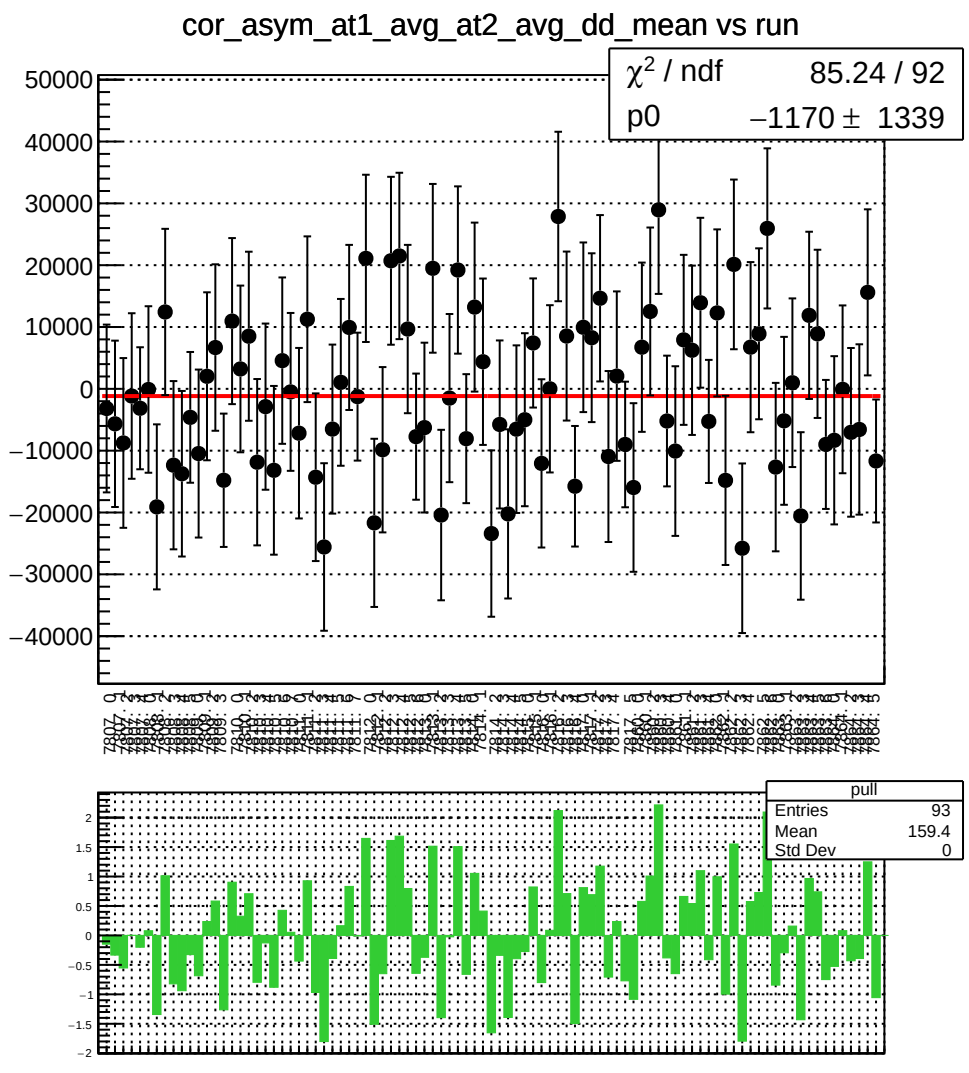

reg_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 85.24 / 92
p0 −1170 ± 1339
pull
Entries 93
Mean 159.4
Std Dev 0

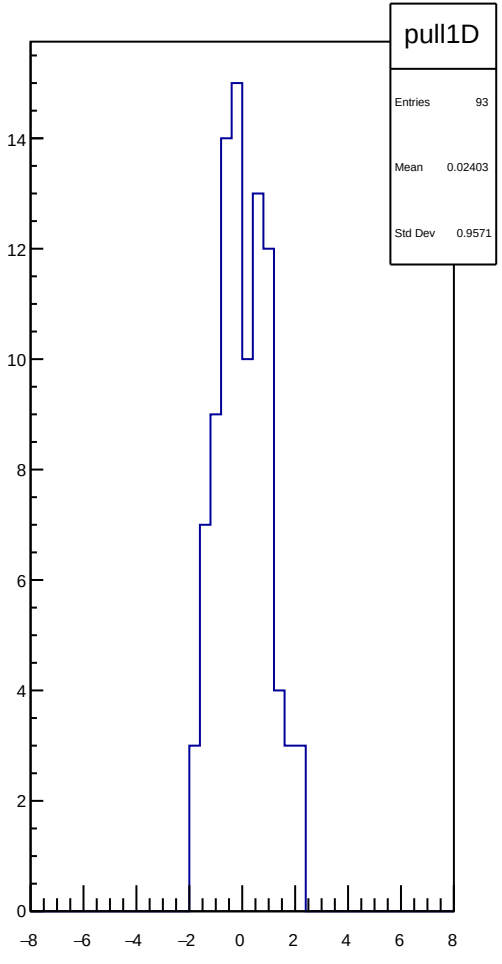

pull1D
Entries 93
Mean 0.02403
Std Dev 0.957

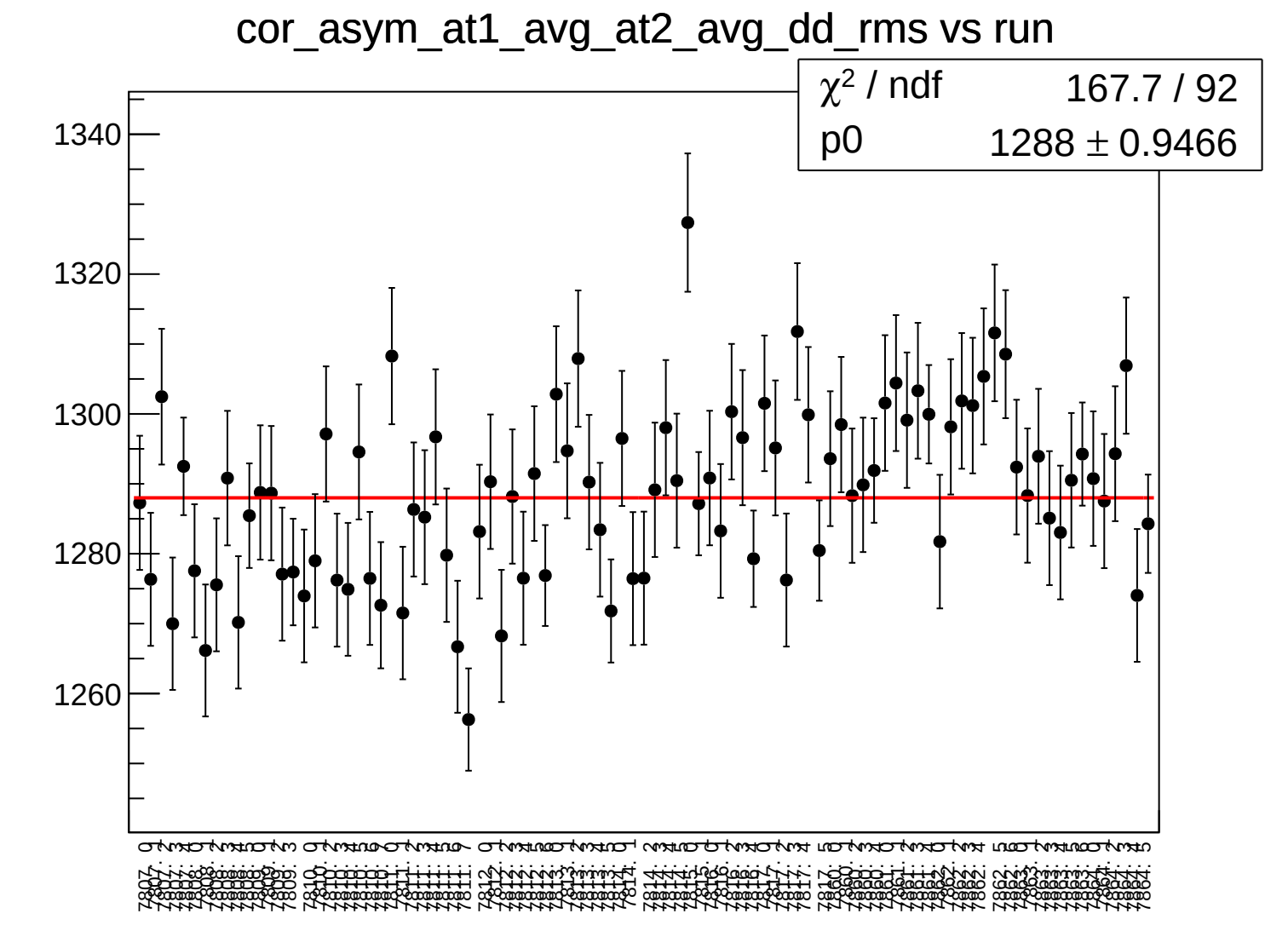

reg_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 167.7 / 92
p0 1288 ± 0.9466
1340
1320
1300
1280
1260

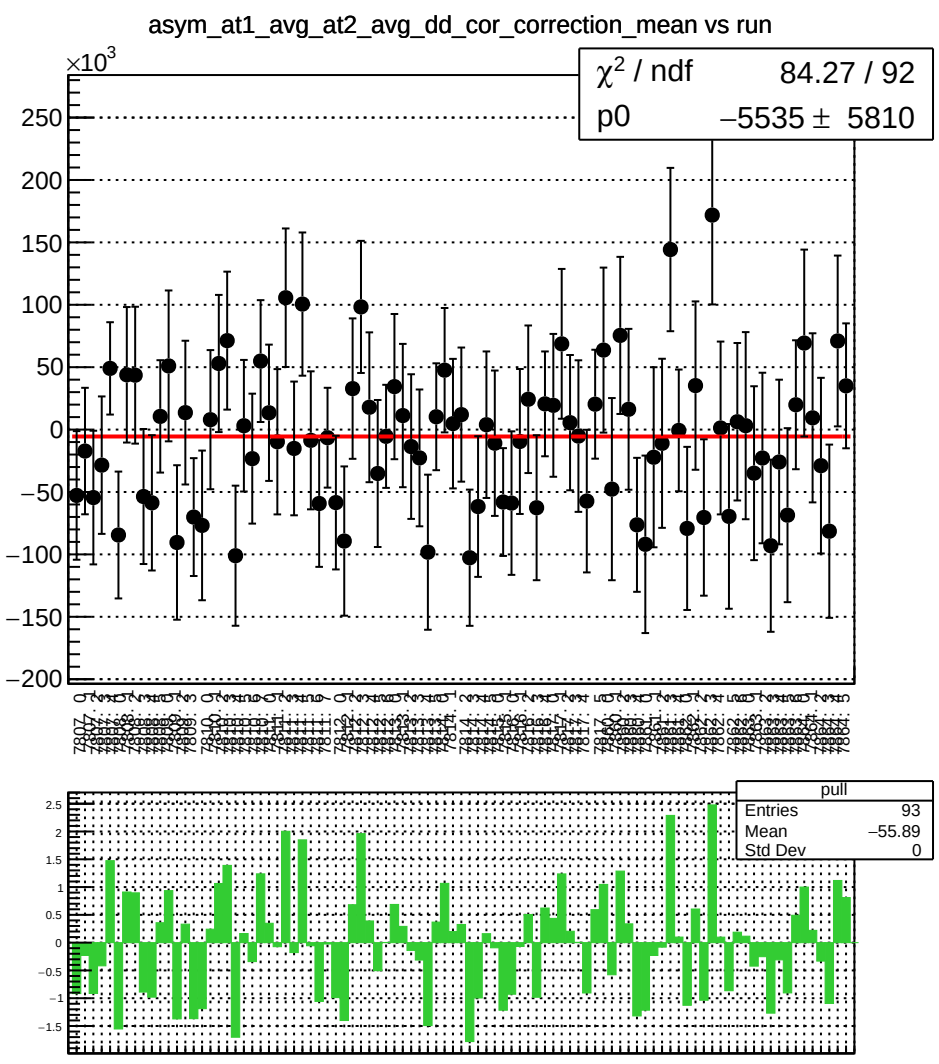

asym_at1_avg_at2_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 84.27 / 92
p0 −5535 ± 5810
pull
Entries 93
Mean −55.9
Std Dev 0
pull1D
Entries 93
Mean −0.0104
Std Dev 0.9519

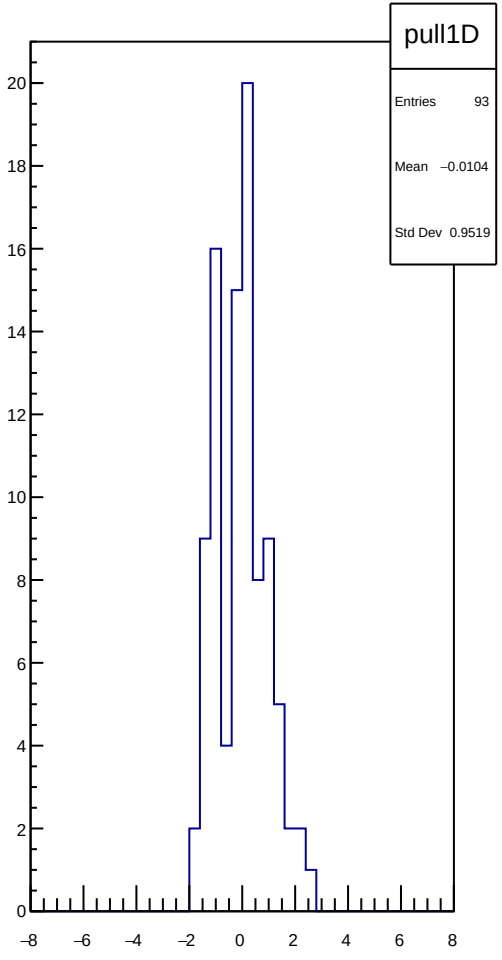

asym_at1_avg_at2_avg_dd_reg_correction_rms vs run
χ^2 / ndf 2.082e+04 / 92
p0 5559 ± 4.109
7000
6500
6000
5500
5000
4500

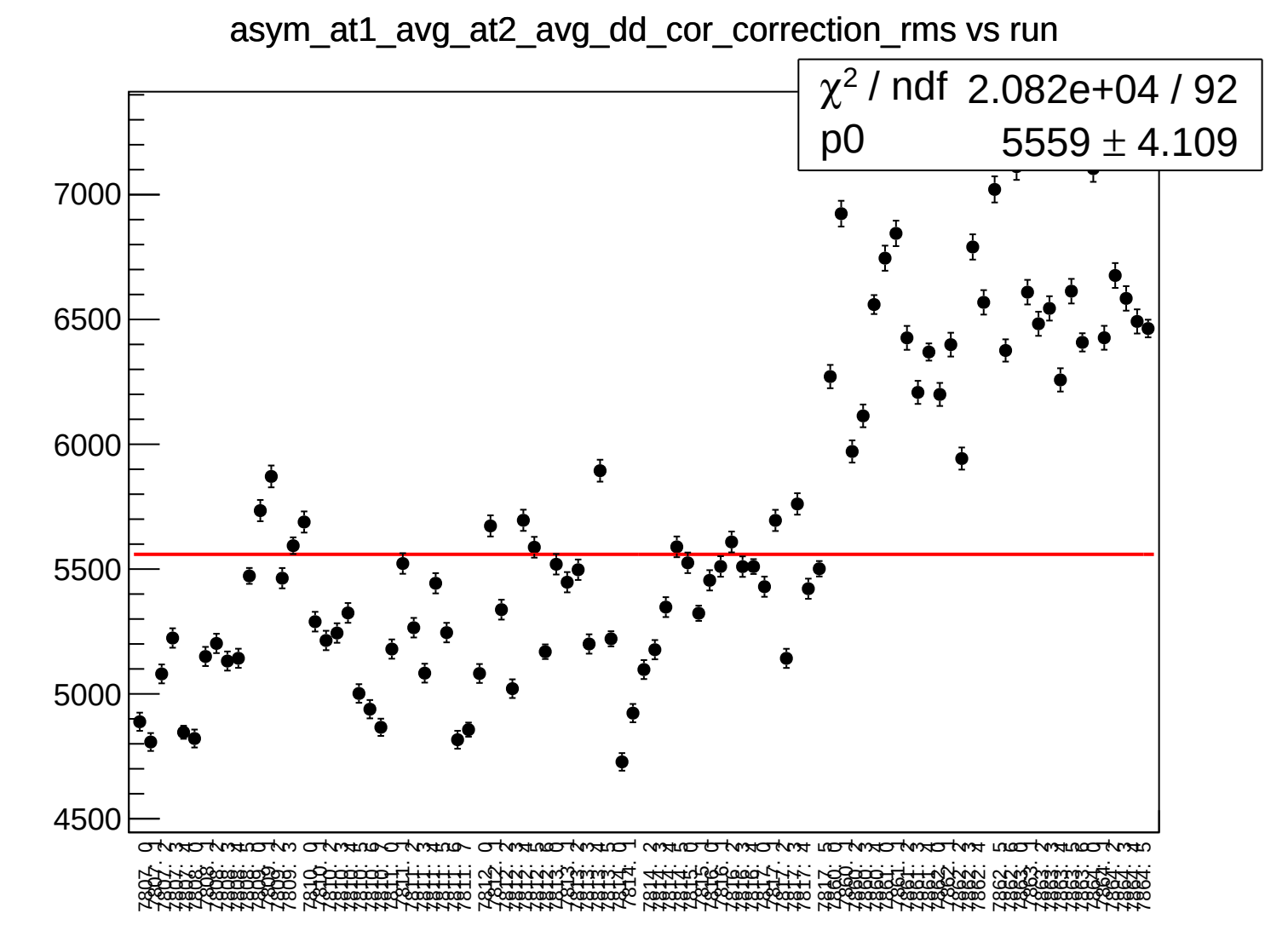

cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 85.24 / 92
p0 −1170 ± 1339
pull
Entries 93
Mean 159.4
Std Dev 0

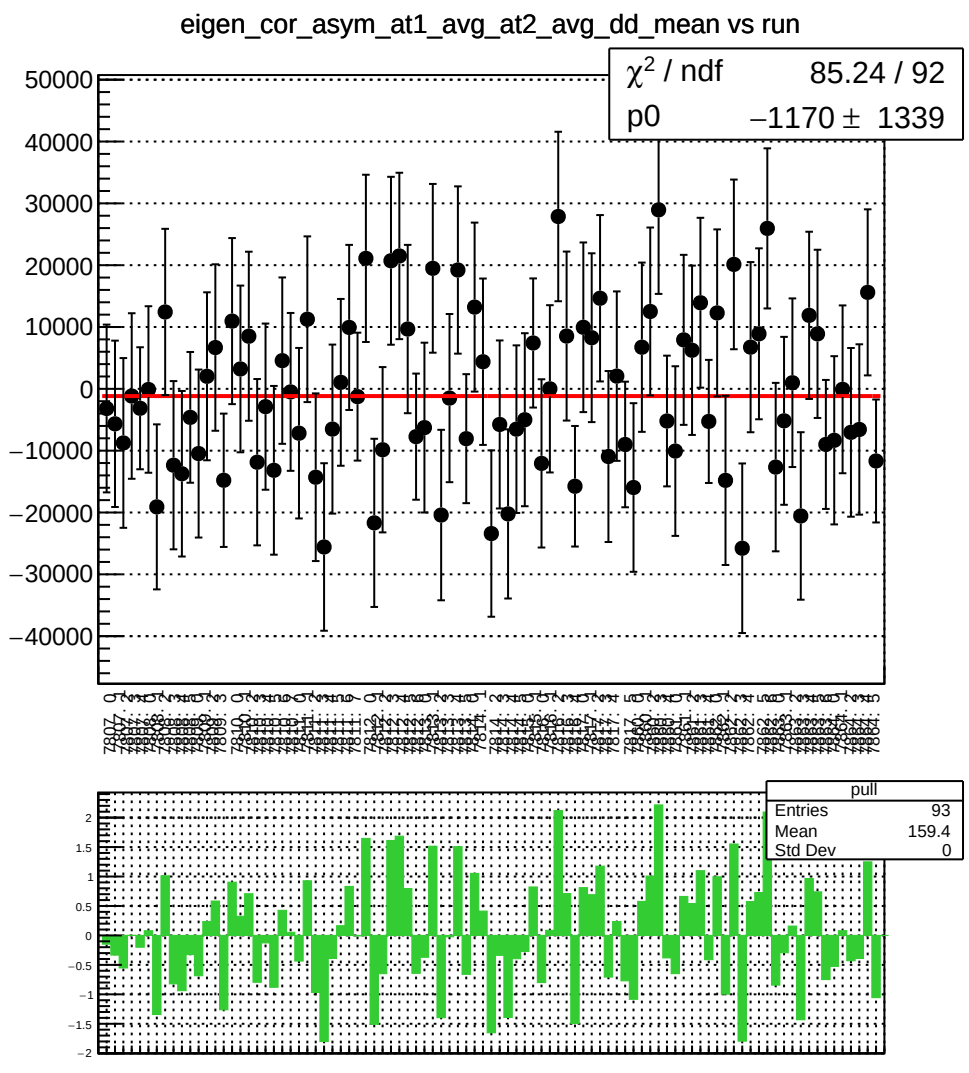

pull1D
Entries 93
Mean 0.02403
Std Dev 0.9571

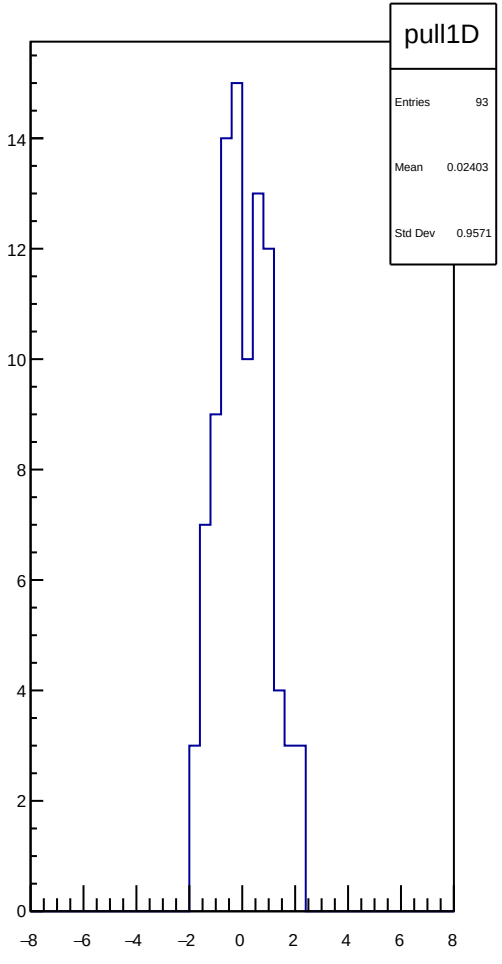

cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 167.7 / 92
p0 1288 ± 0.9466
1340
1320
1300
1280
1260

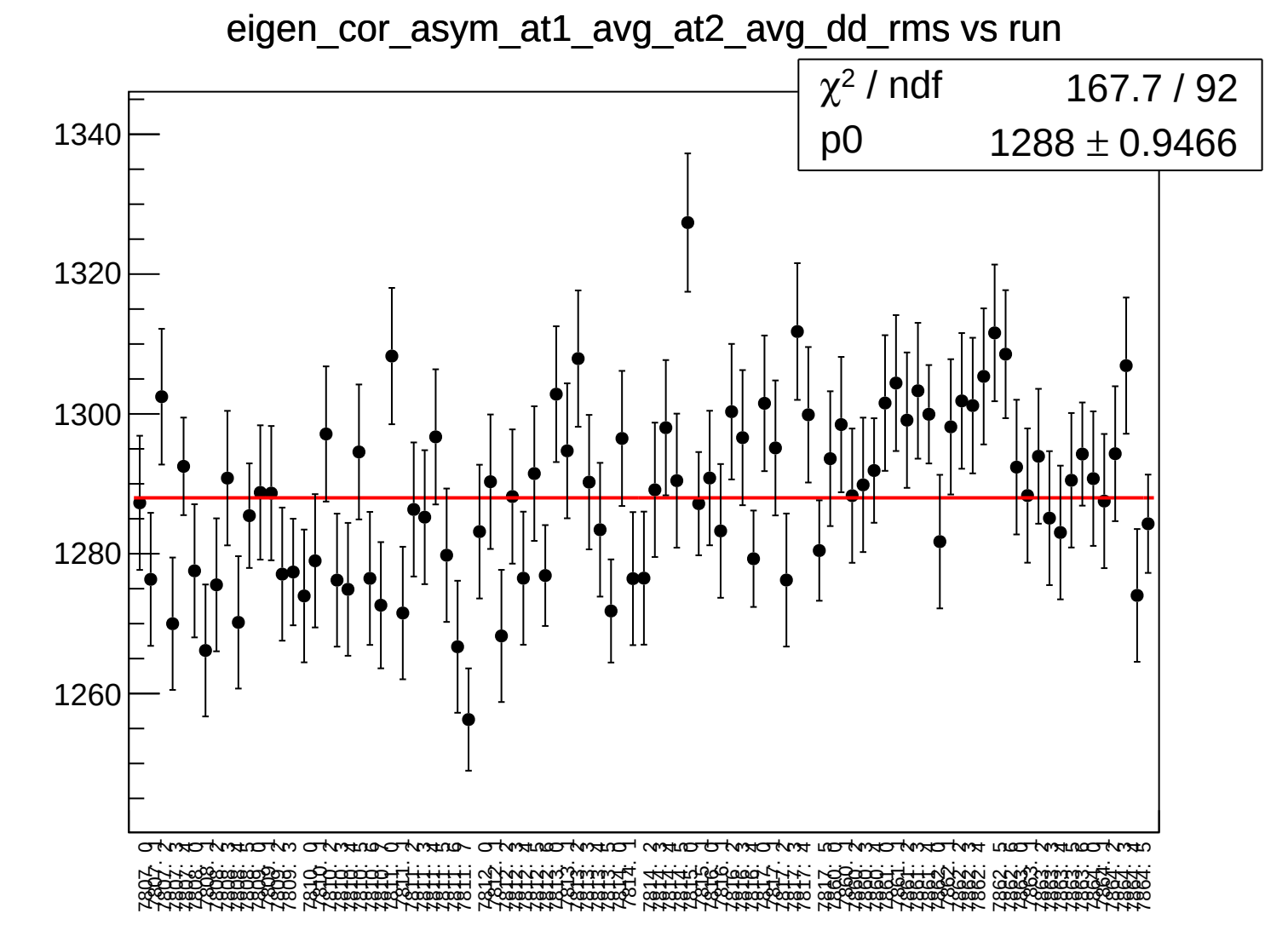

asym_at1_avg_at2_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 84.27 / 92
p0 −5535 ± 5810
pull
Entries 93
Mean −55.89
Std Dev 0

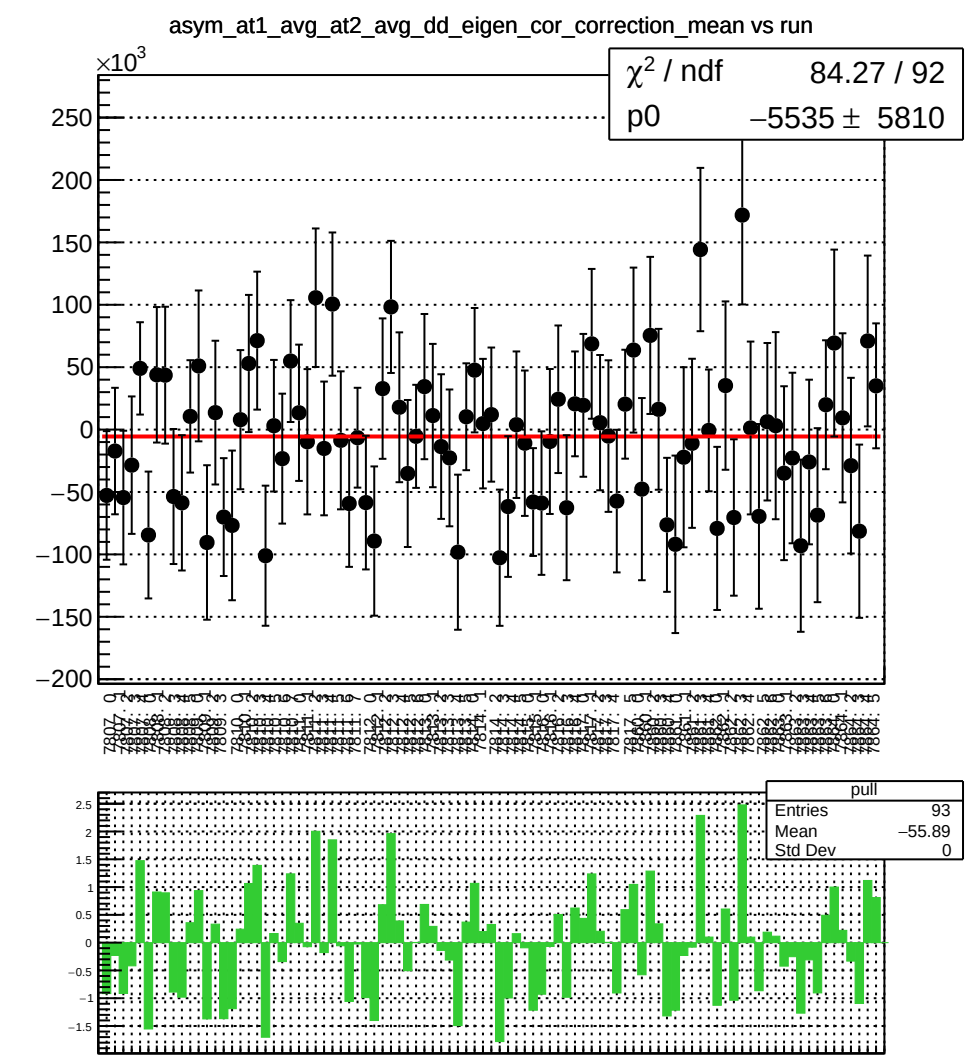

pull1D
Entries 93
Mean −0.0104
Std Dev 0.9519

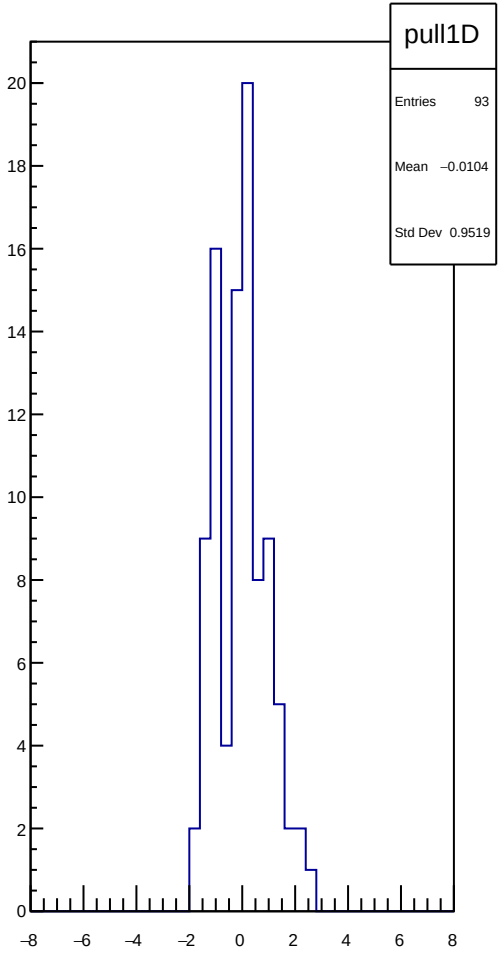

asym_at1_avg_at2_avg_dd_cor_correction_rms vs run
χ² / ndf 2.082e+04 / 92
p0 5559 ± 4.109
7000
6500
6000
5500
5000
4500

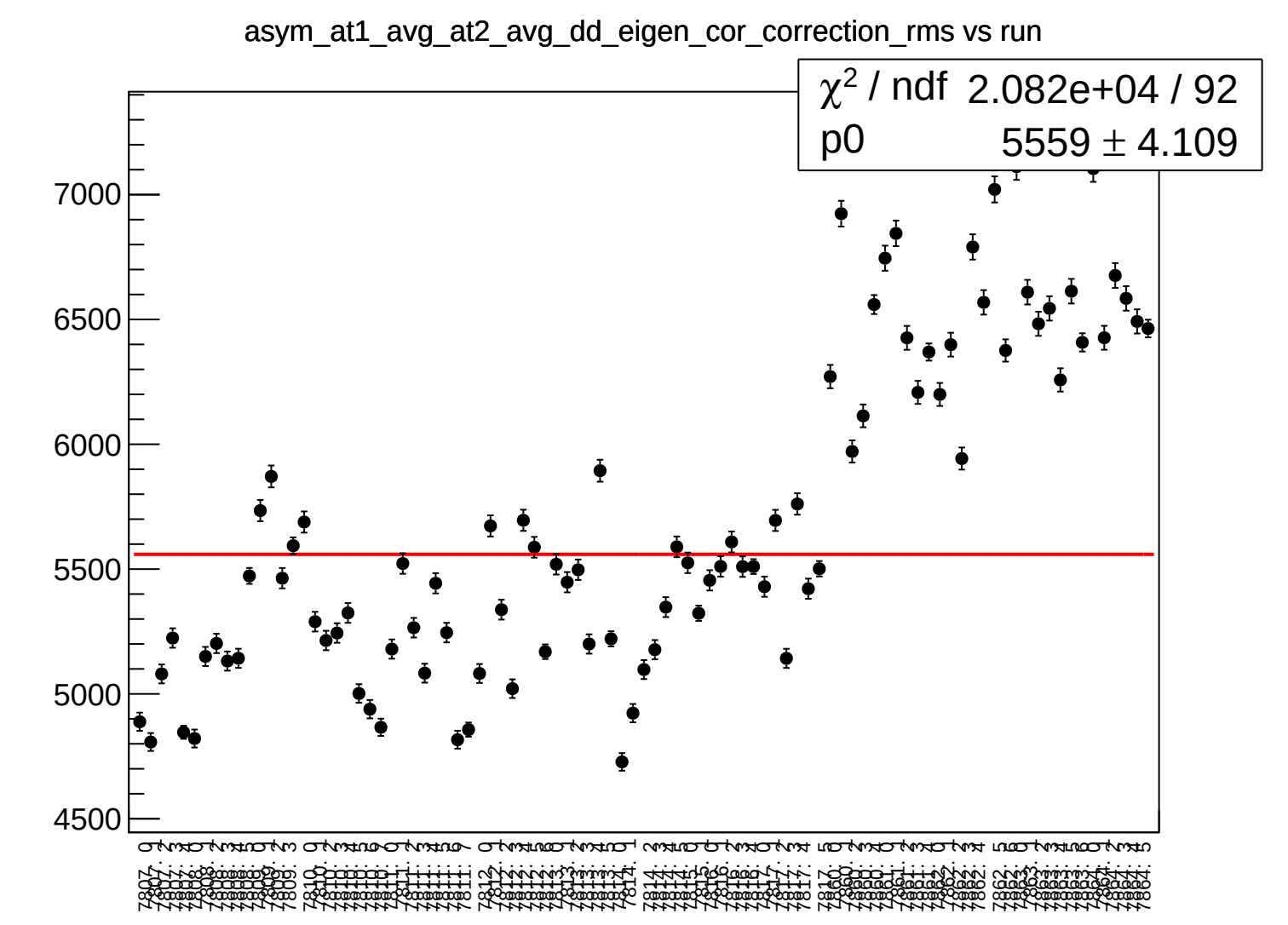

eigen_cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 85.24 / 92
p0 −1170 ± 1339
pull
Entries 93
Mean 159.4
Std Dev 0

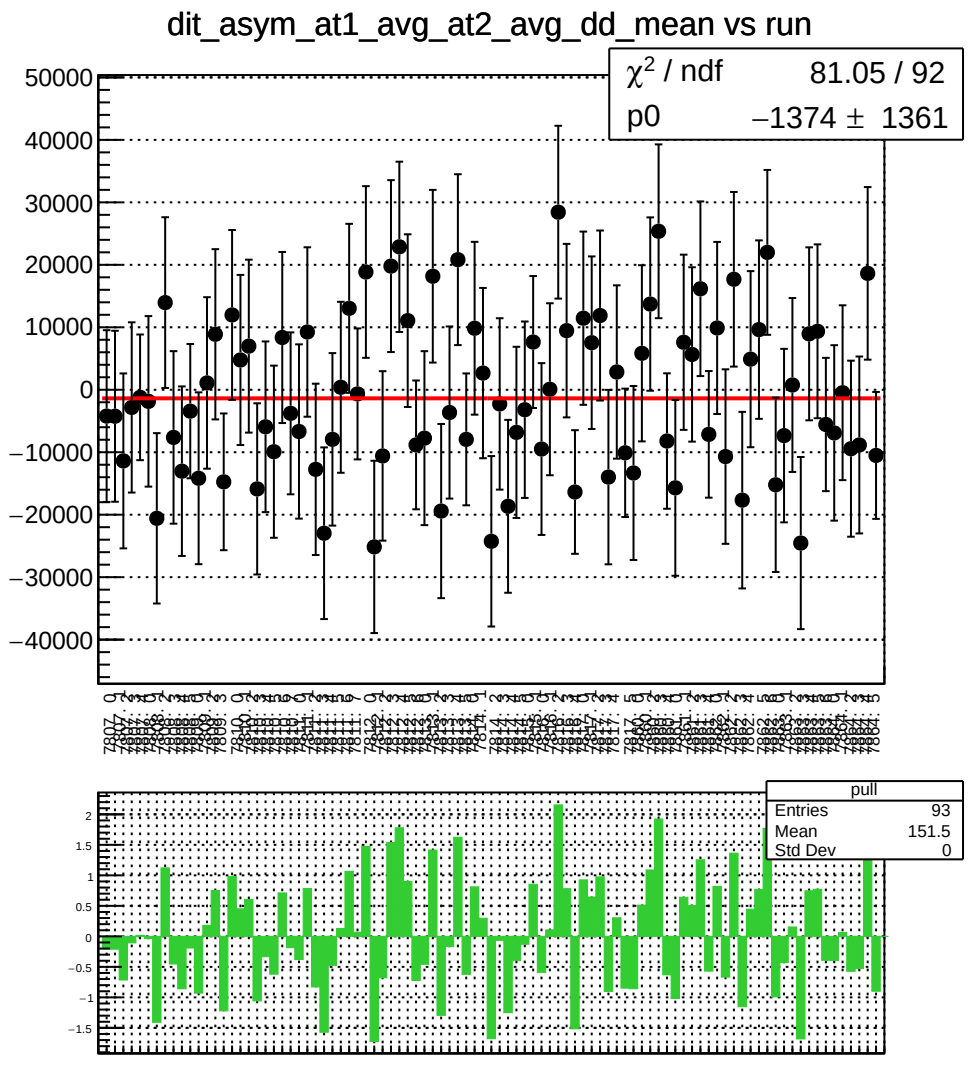

pull1D
Entries 93
Mean 0.02403
Std Dev 0.9571

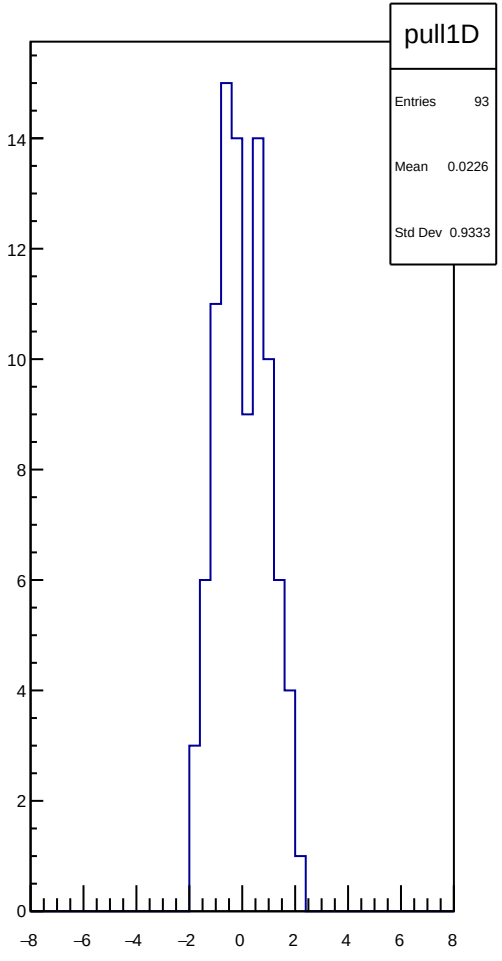

eigen_cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 167.7 / 92
p0 1288 ± 0.9466
1340
1320
1300
1280
1260

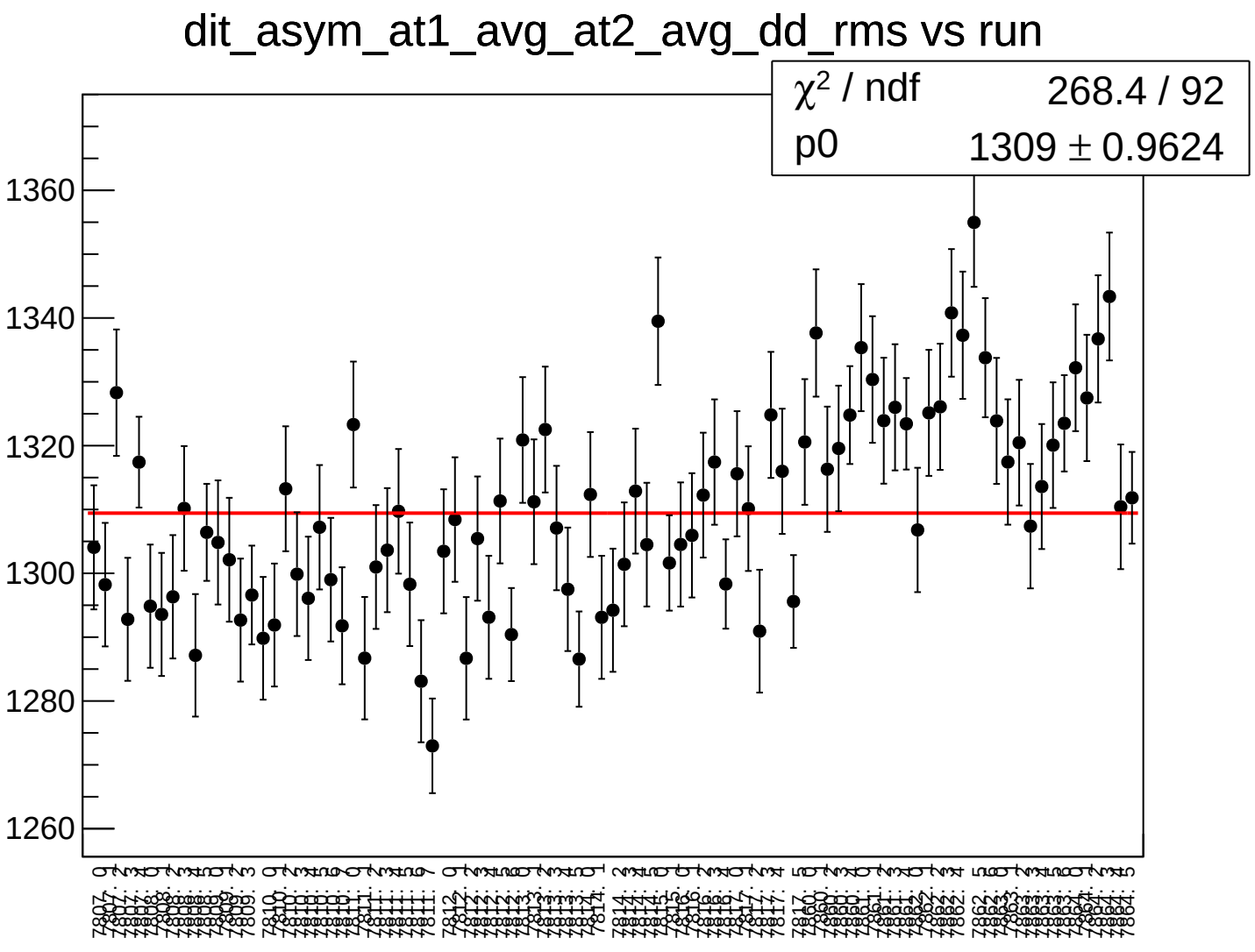

asym_at1_avg_at2_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 84.27 / 92
p0 −5535 ± 5810
pull
Entries 93
Mean −55.89
Std Dev 0

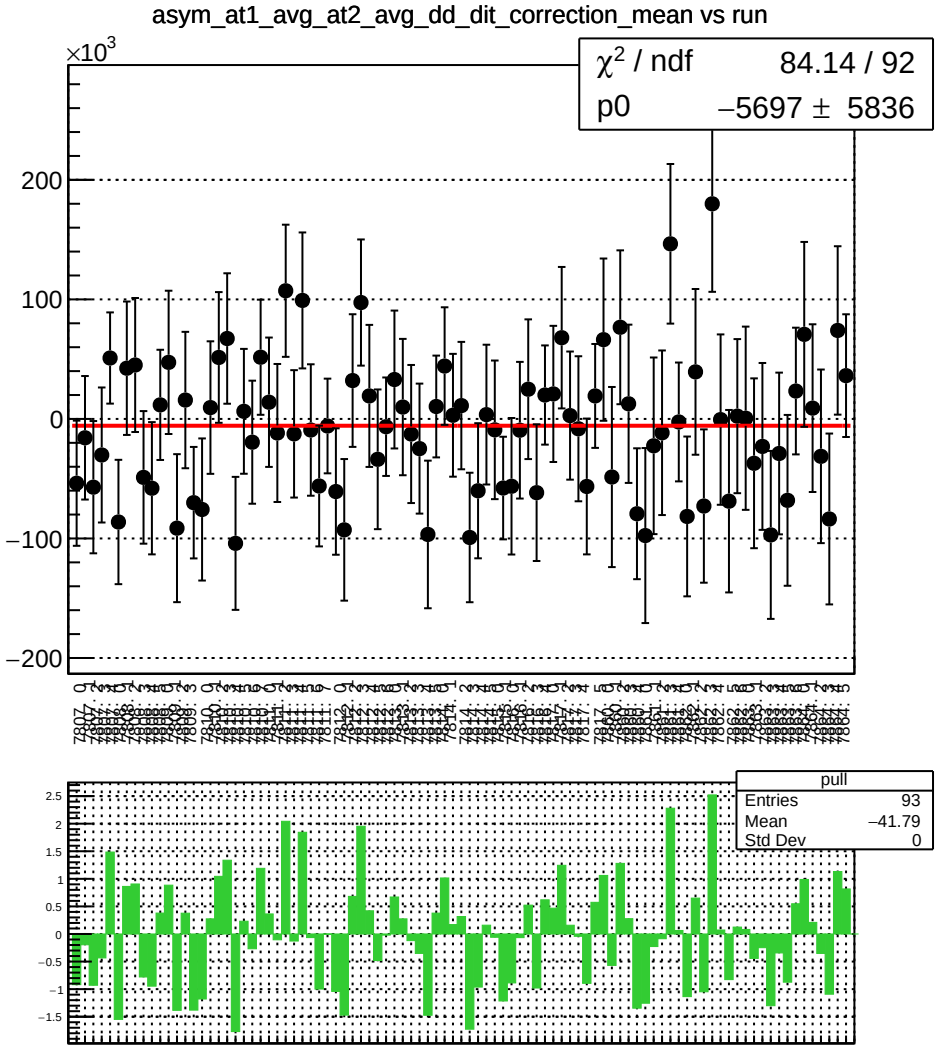

pull1D
Entries 93
Mean −0.0104
Std Dev 0.9519

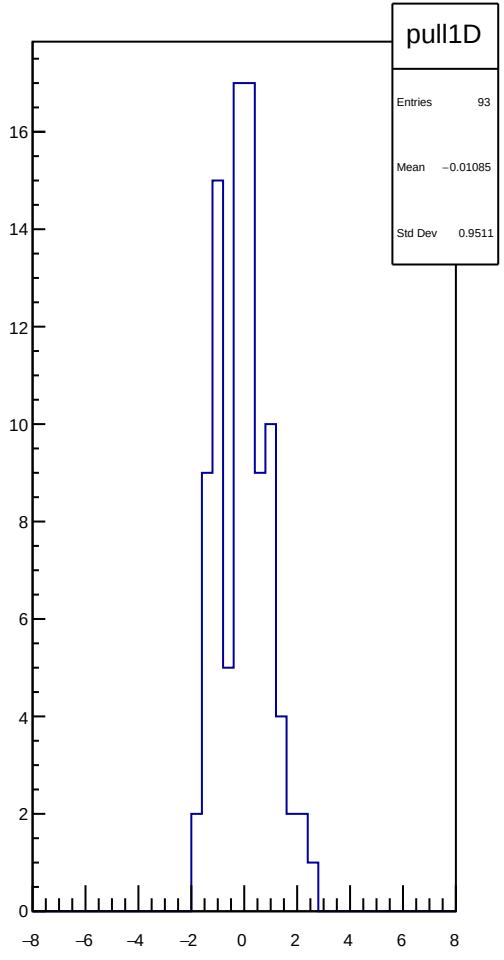

asym_at1_avg_at2_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.082e+04 / 92
p0 5559 ± 4.109
7000
6500
6000
5500
5000
4500

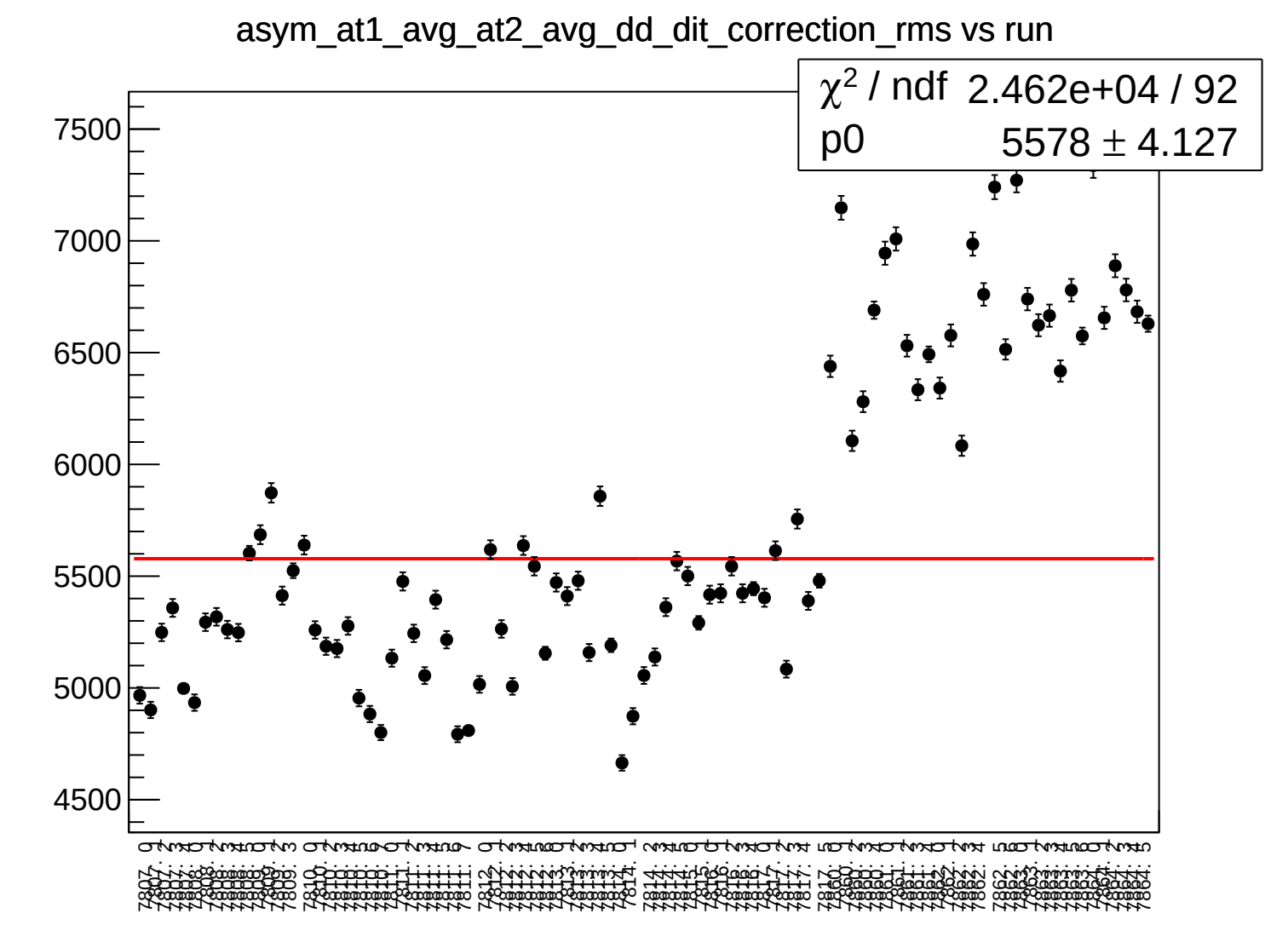

dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 81.05 / 92
p0 −1374 ± 1361
pull
Entries 93
Mean 151.5
Std Dev 0

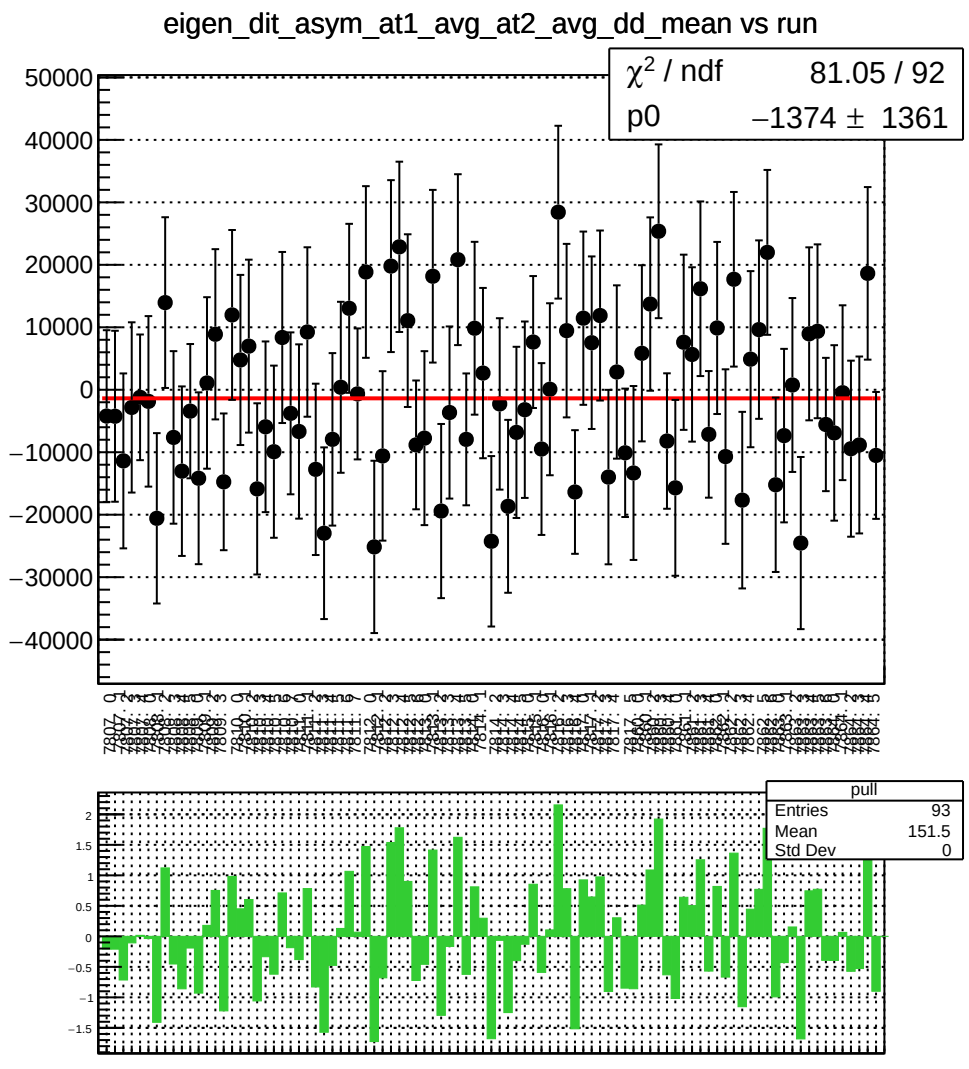

pull1D
Entries 93
Mean 0.0226
Std Dev 0.9333

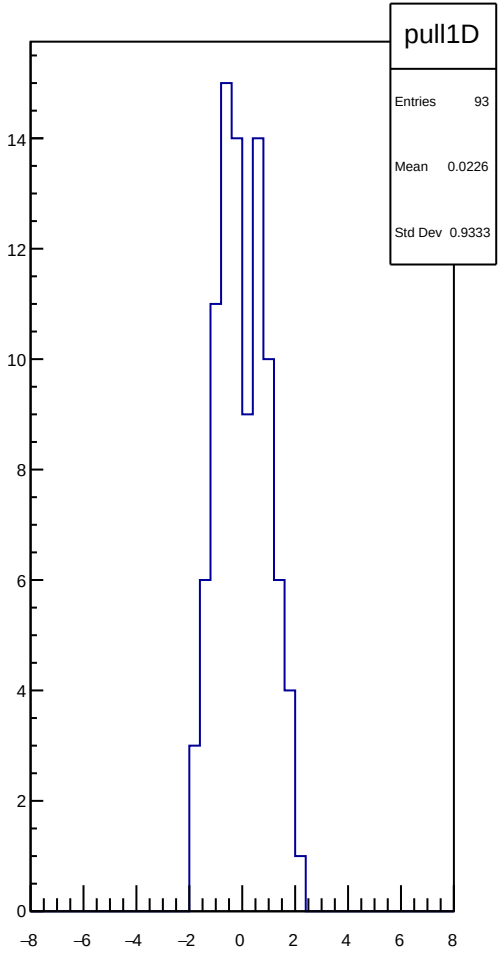

dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 268.4 / 92
p0 1309 ± 0.9624
1360
1340
1320
1300
1280
1260

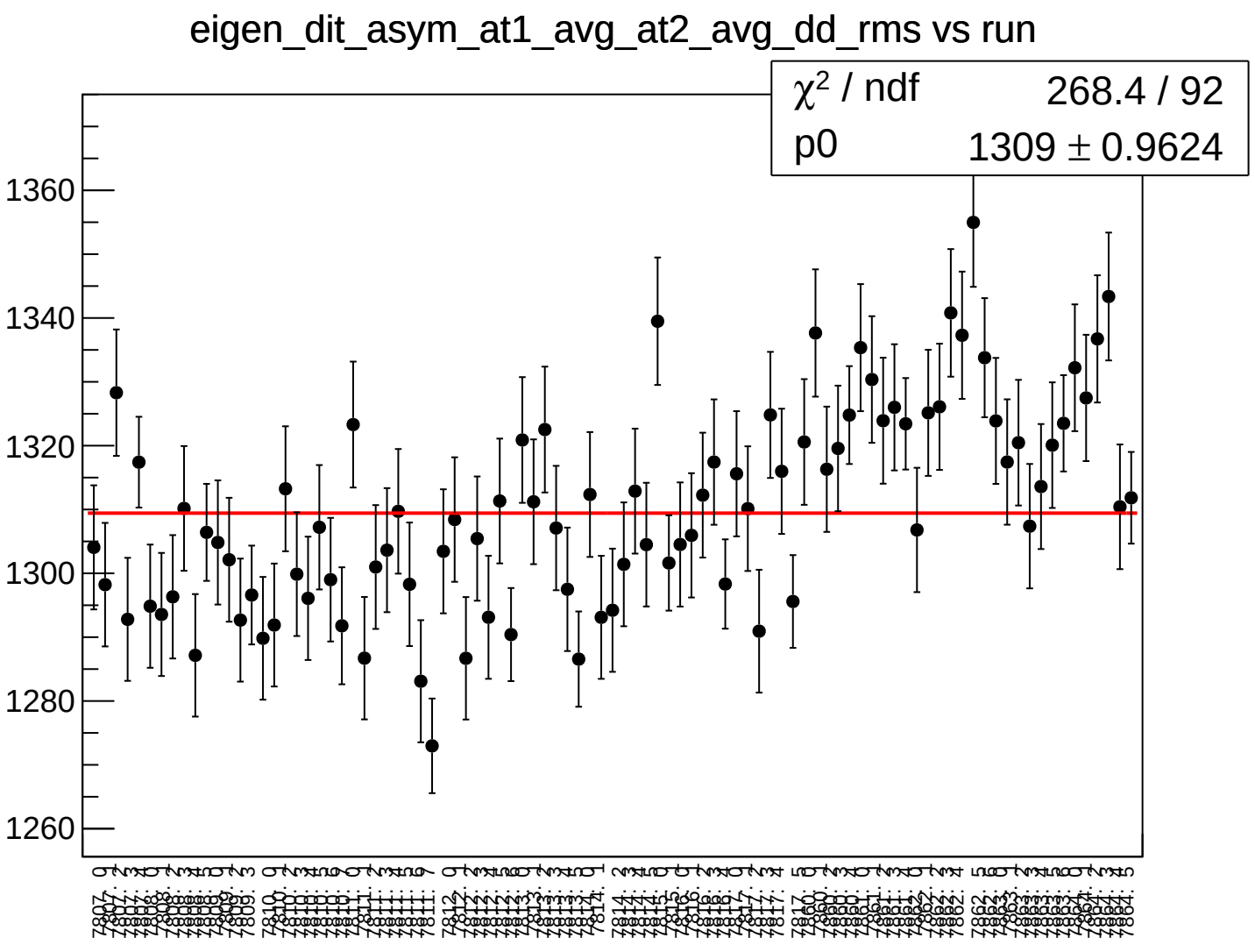

asym_at1_avg_at2_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 84.14 / 92
p0 −5697 ± 5836
200
100
0
−100
−200
pull
Entries 93
Mean −41.79
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

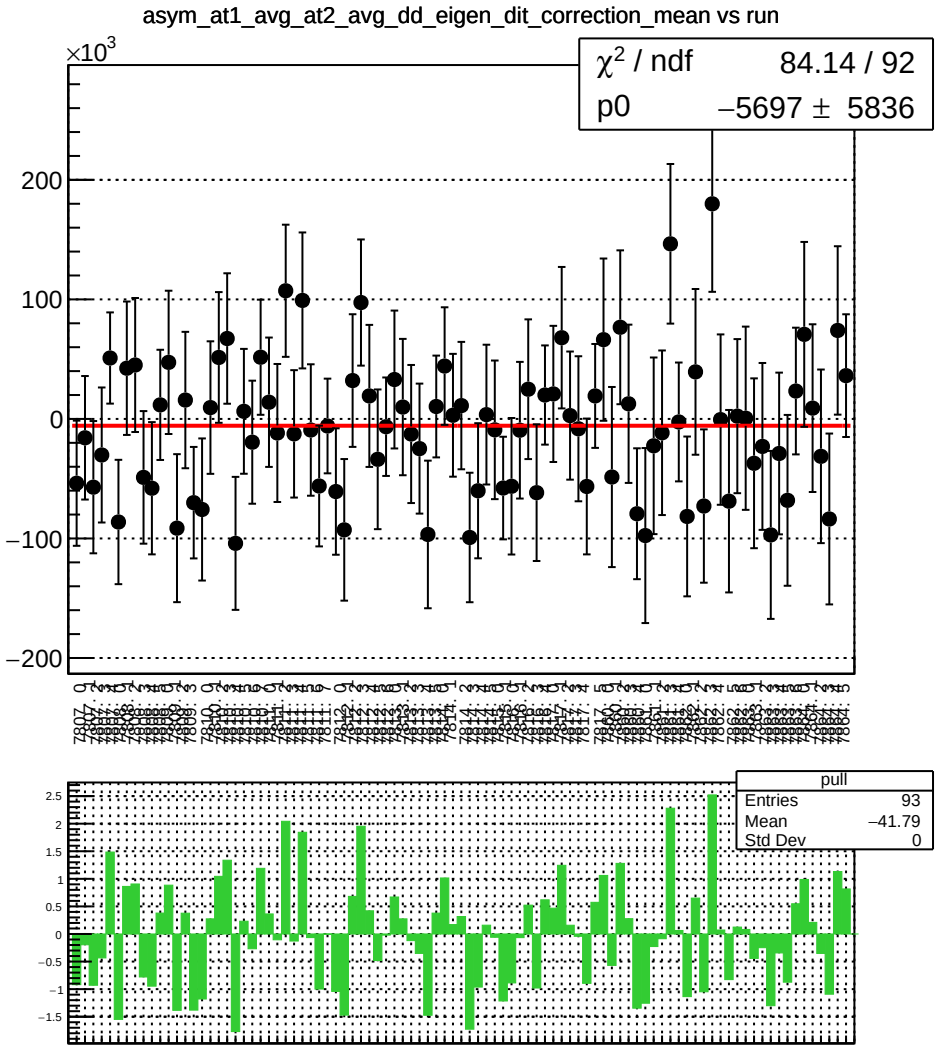

pull1D
Entries 93
Mean −0.01085
Std Dev 0.9511
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

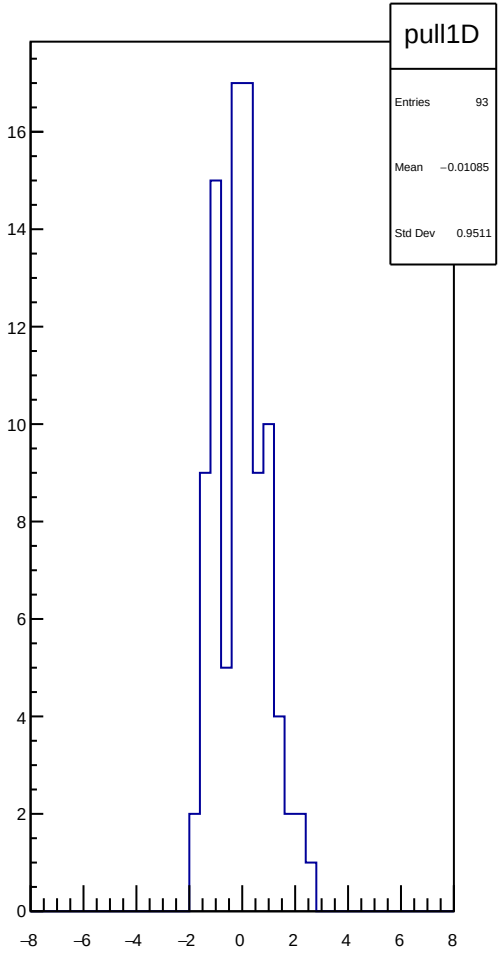

asym_at1_avg_at2_avg_dd_dit_correction_rms vs run
χ² / ndf 2.462e+04 / 92
p0 5578 ± 4.127
7500
7000
6500
6000
5500
5000
4500

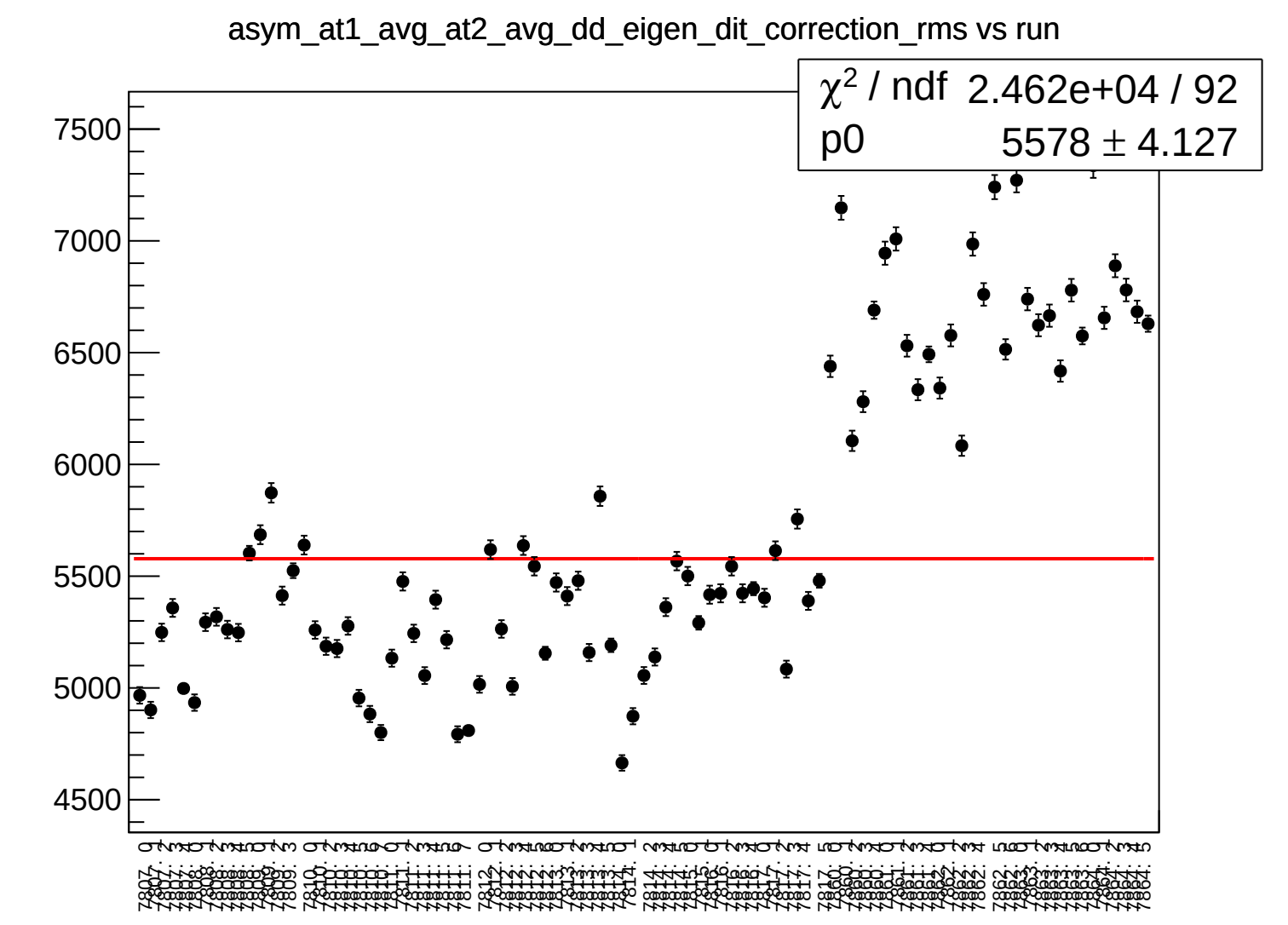

eigen_dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 81.05 / 92
p0 −1374 ± 1361
pull
Entries 93
Mean 151.5
Std Dev 0

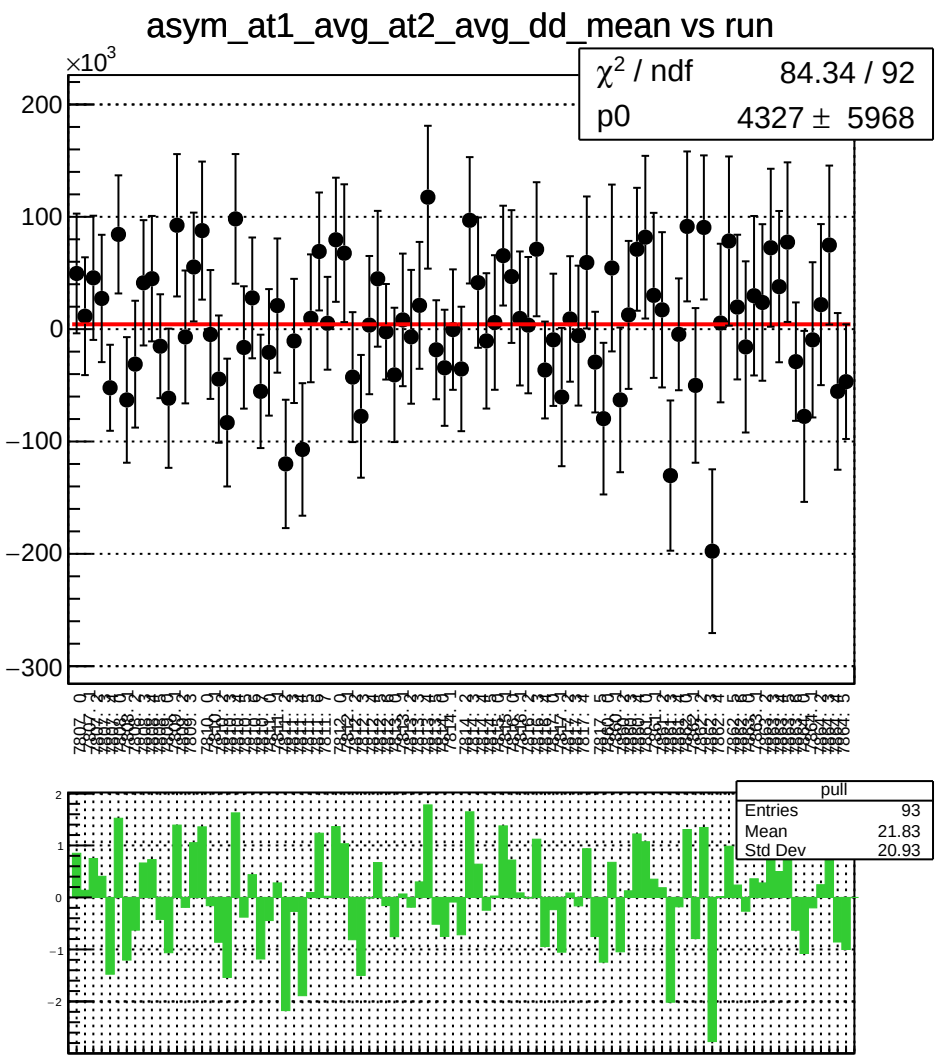

pull1D
Entries 93
Mean 0.0226
Std Dev 0.9333

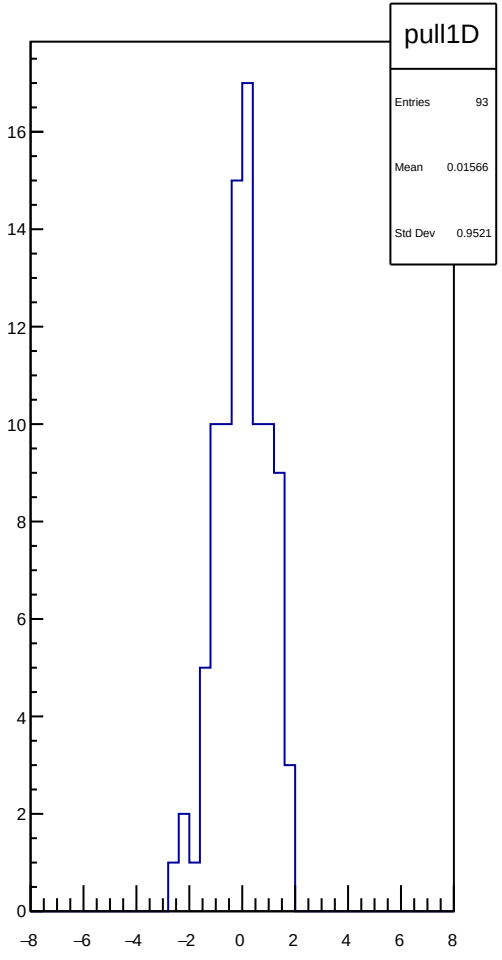

eigen_dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 268.4 / 92
p0 1309 ± 0.9624
1360
1340
1320
1300
1280
1260

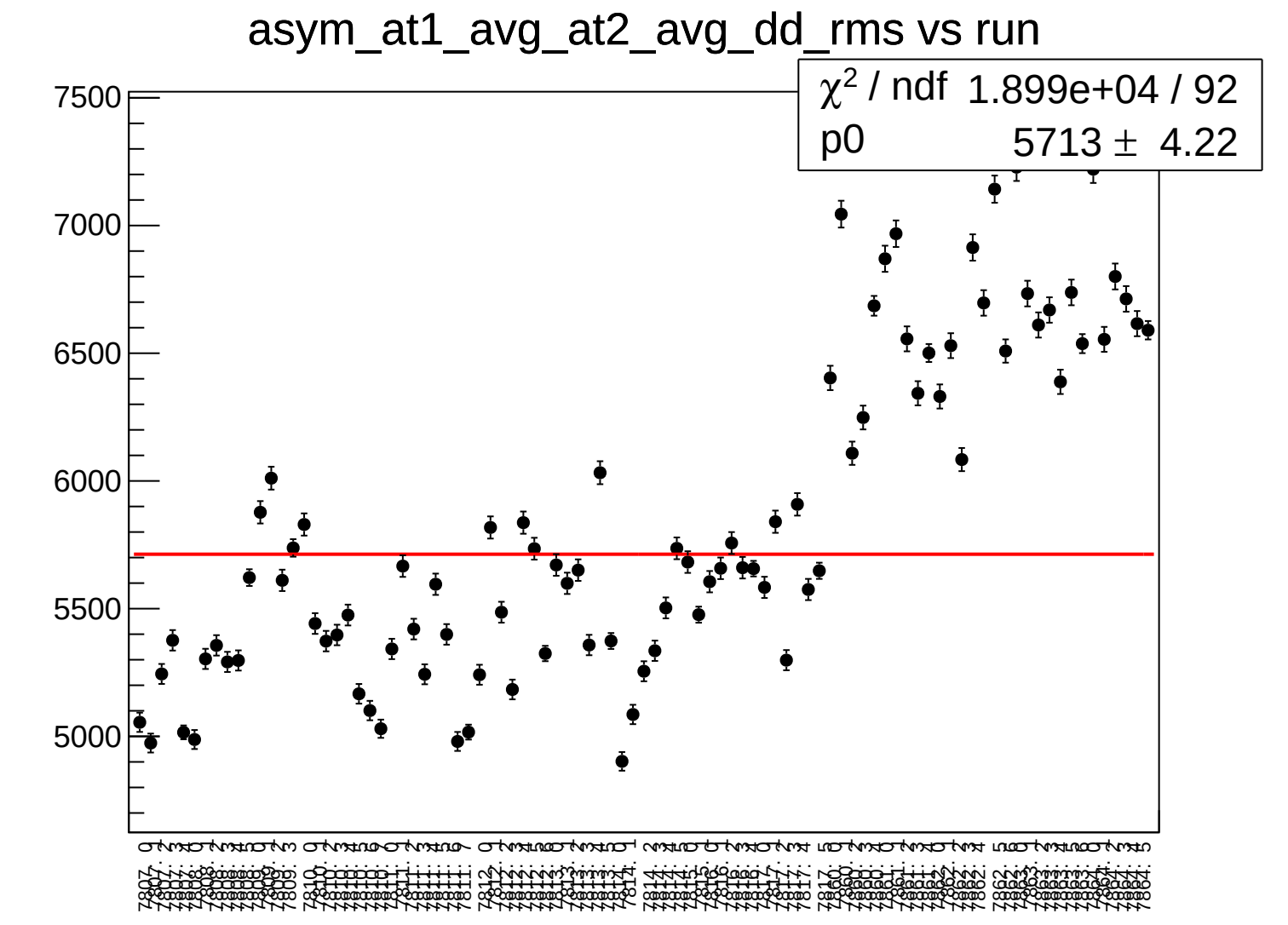

asym_at1_avg_at2_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 84.14 / 92
p0 −5697 ± 5836
200
100
0
−100
−200
pull
Entries 93
Mean −41.79
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

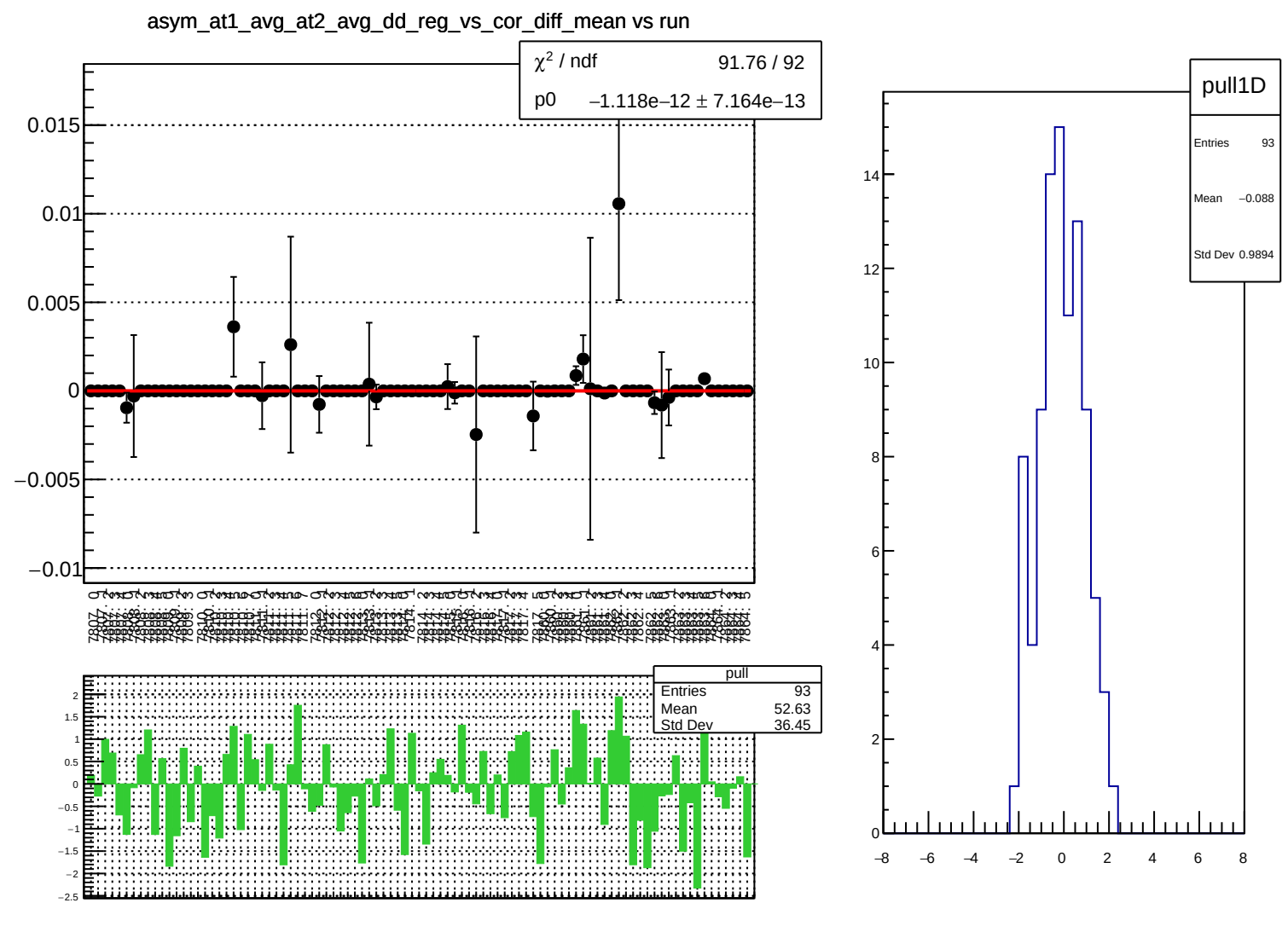

pull1D
Entries 93
Mean −0.01085
Std Dev 0.9511
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

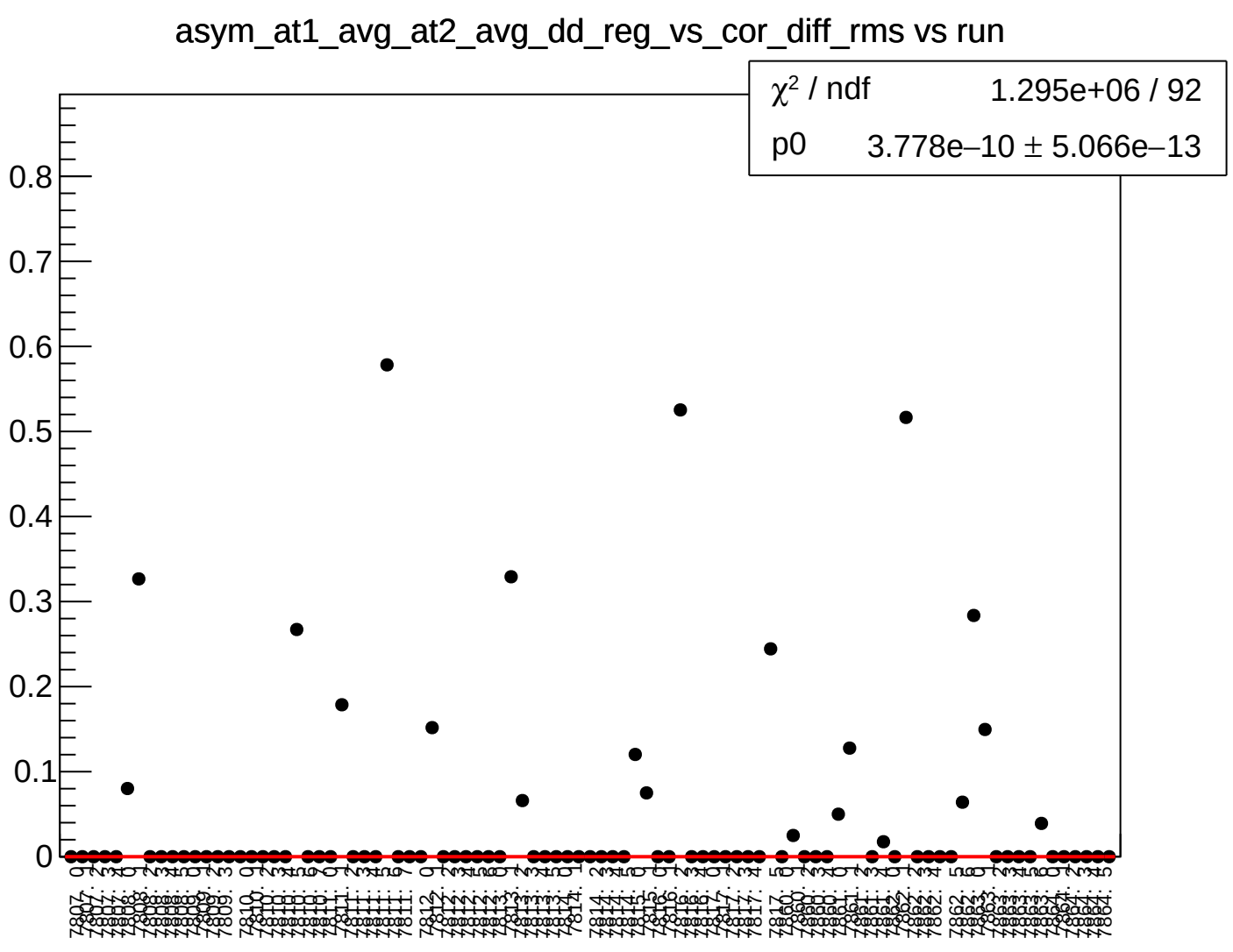

asym_at1_avg_at2_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.462e+04 / 92
p0 5578 ± 4.127
7500
7000
6500
6000
5500
5000
4500

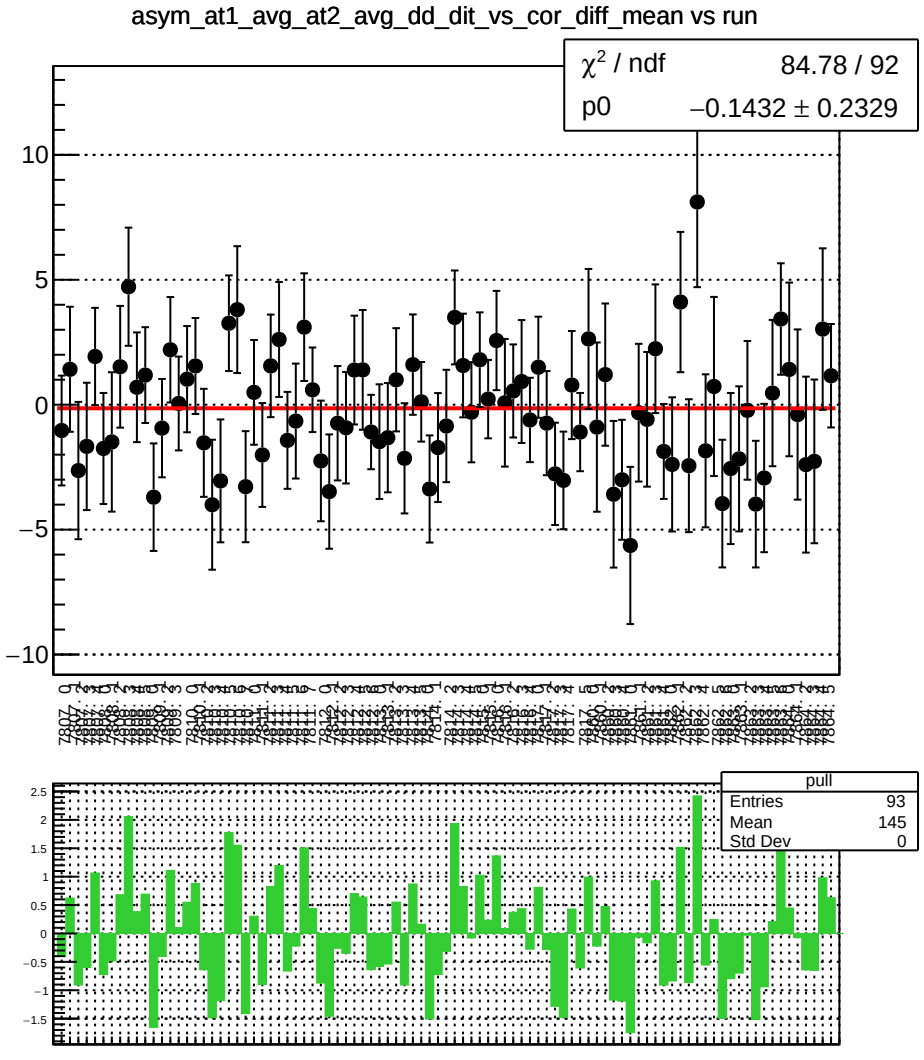

asym_at1_avg_at2_avg_dd_mean vs run
×10^3
χ² / ndf 84.34 / 92
p0 4327 ± 5968
200
100
0
−100
−200
−300
pull
Entries 93
Mean 21.83
Std Dev 20.93
2
1
0
−1
−2

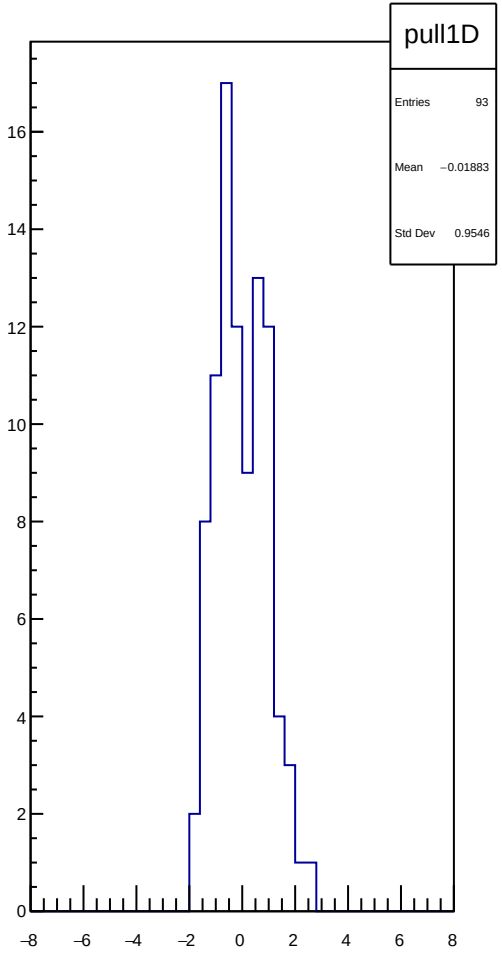

pull1D
Entries 93
Mean 0.01566
Std Dev 0.9521
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

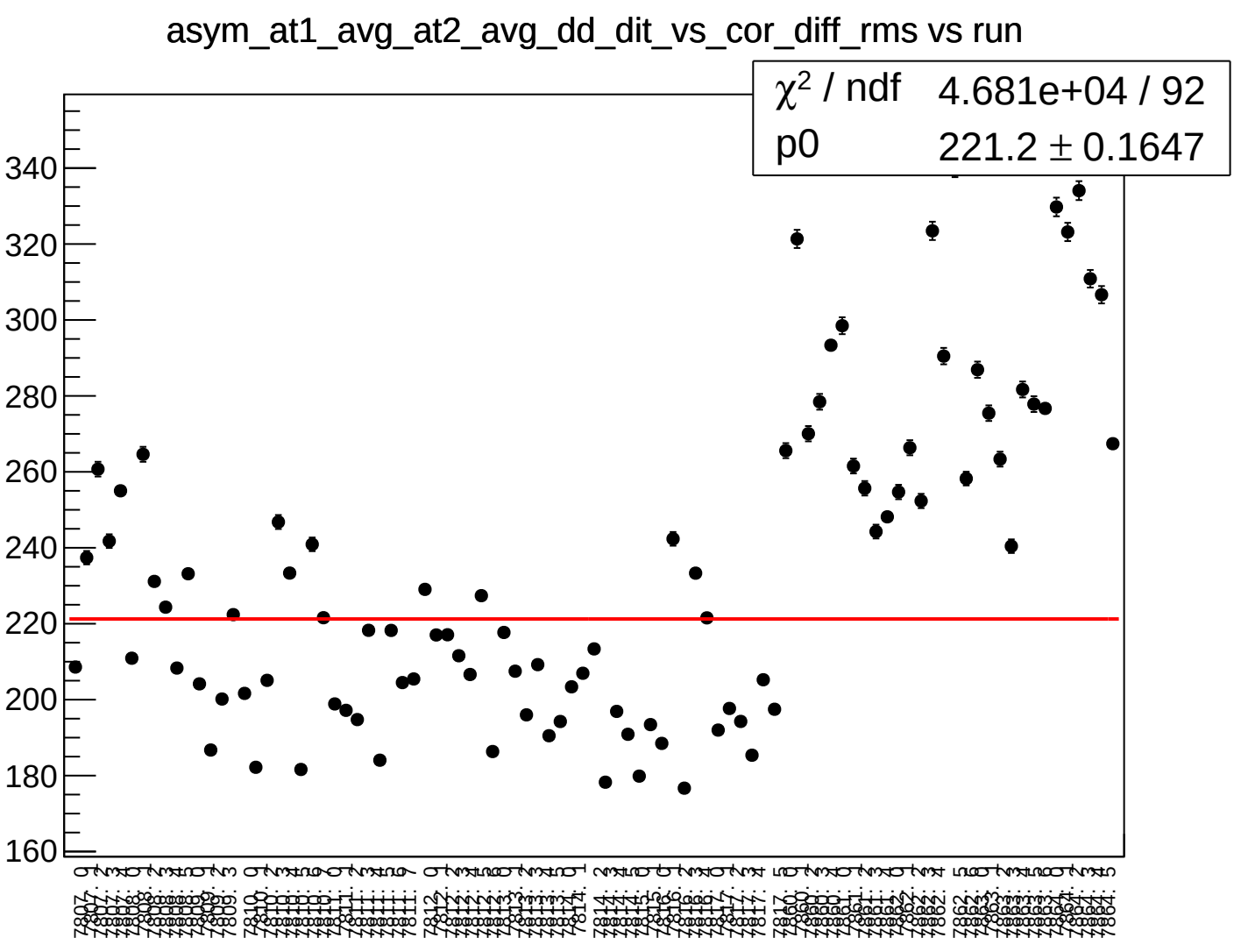

asym_at1_avg_at2_avg_dd_rms vs run
χ^2 / ndf 1.899e+04 / 92
p0 5713 ± 4.22
7500
7000
6500
6000
5500
5000

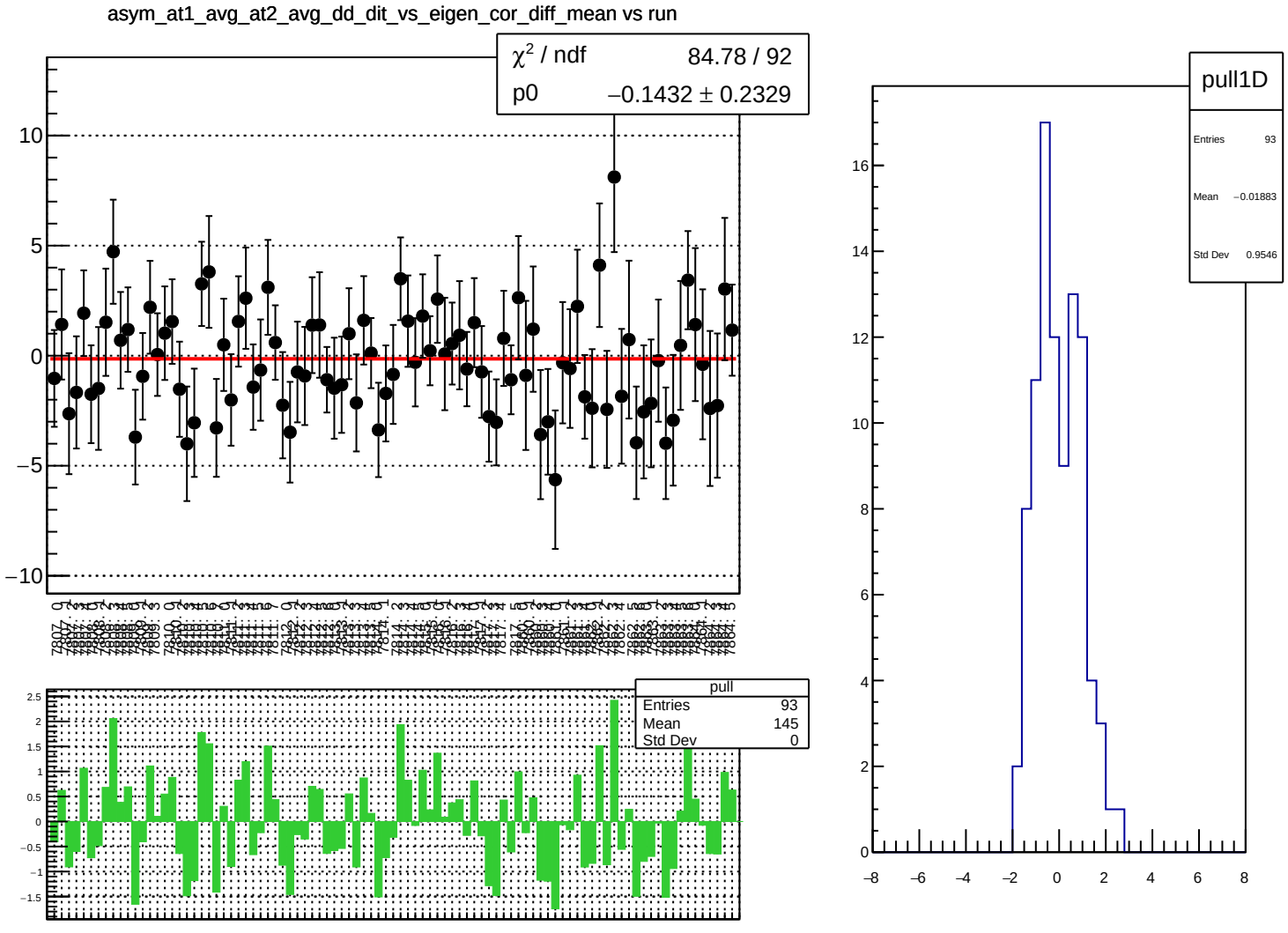

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 91.76 / 92
p0 −1.118e−12 ± 7.164e−13
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 93
Mean 52.63
Std Dev 36.45
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 93
Mean −0.088
Std Dev 0.9894
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

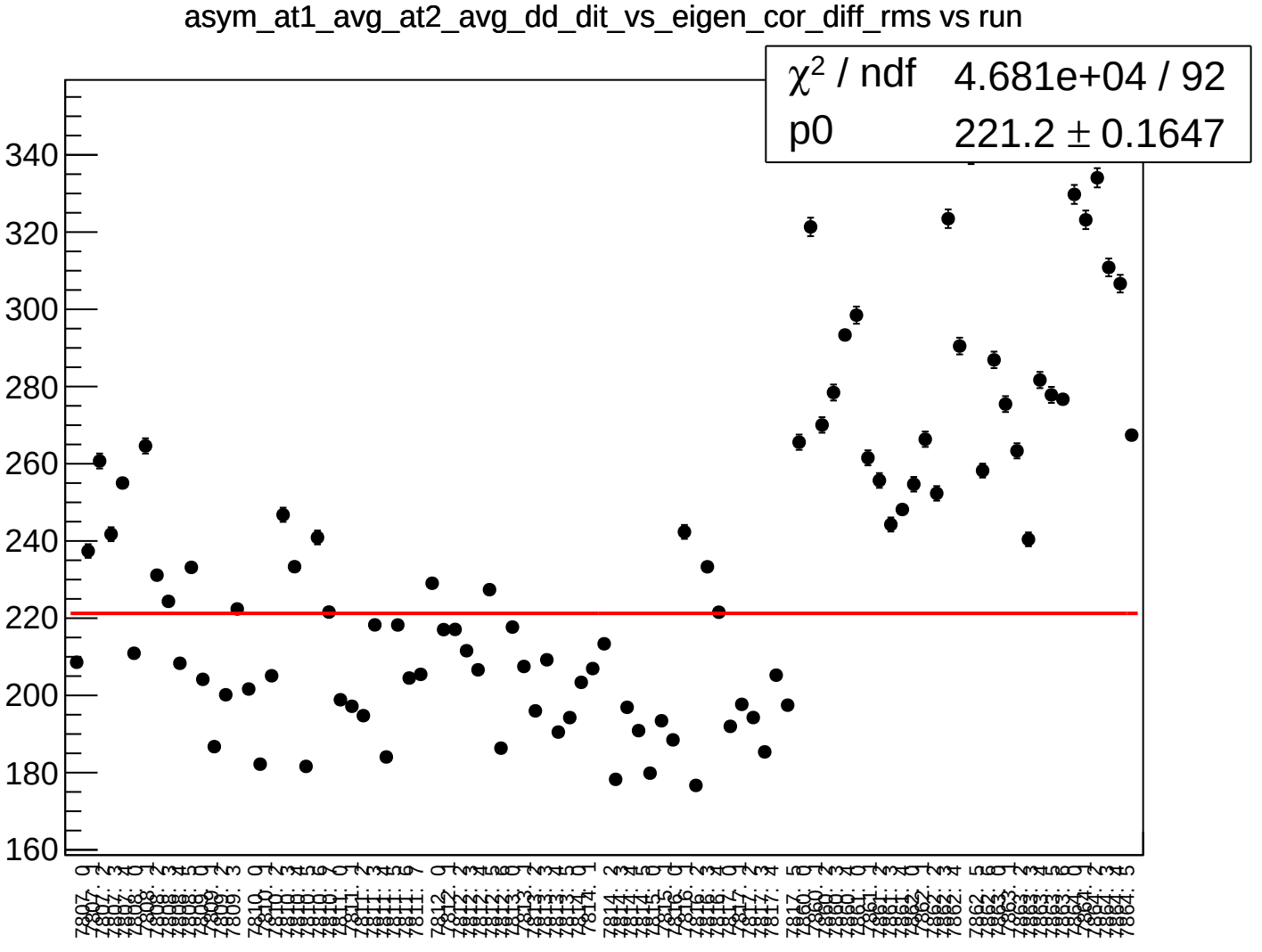

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.295e+06 / 92
p0 3.778e−10 ± 5.066e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

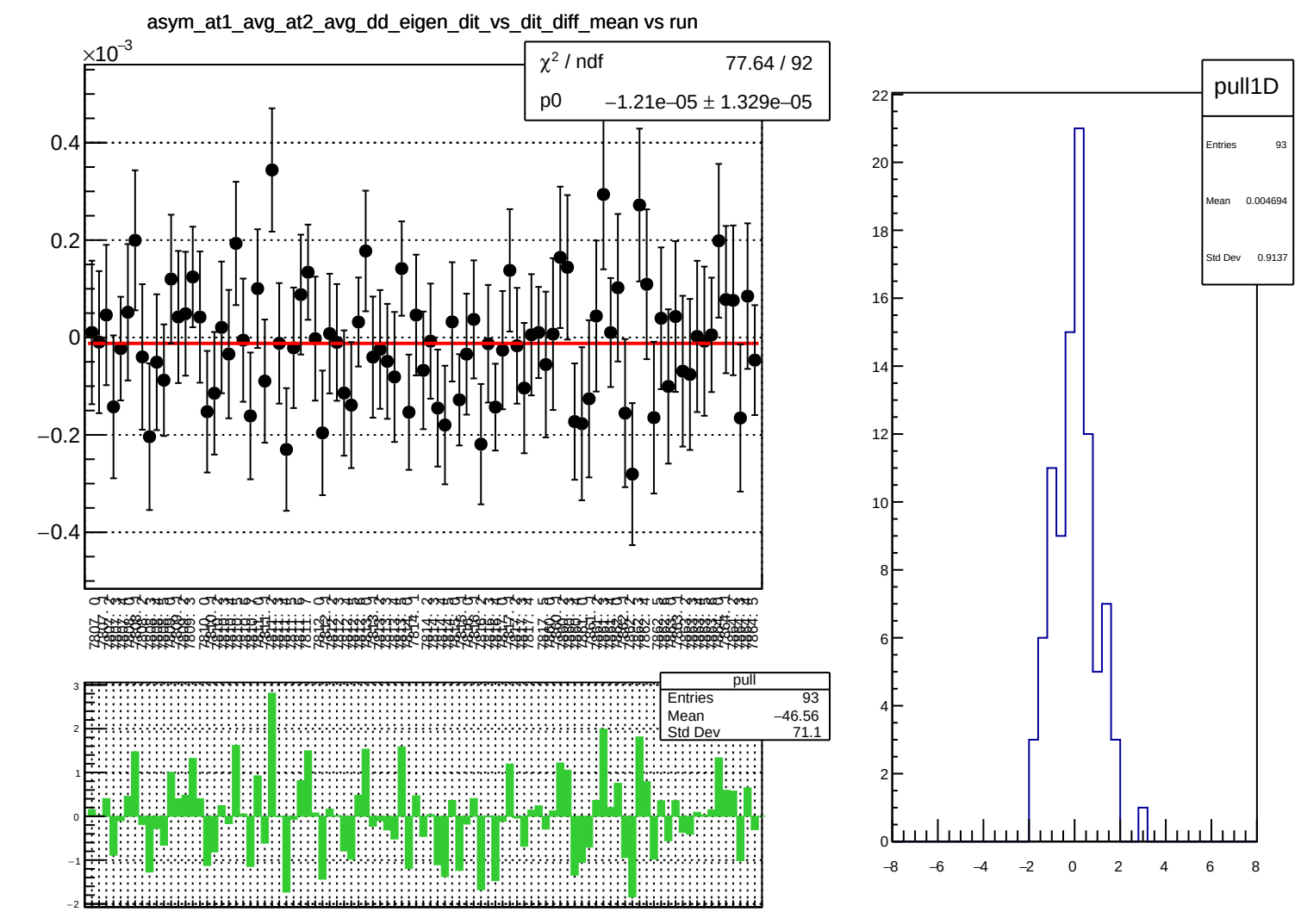

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 84.78 / 92
p0 −0.1432 ± 0.2329
pull
Entries 93
Mean 145
Std Dev 0

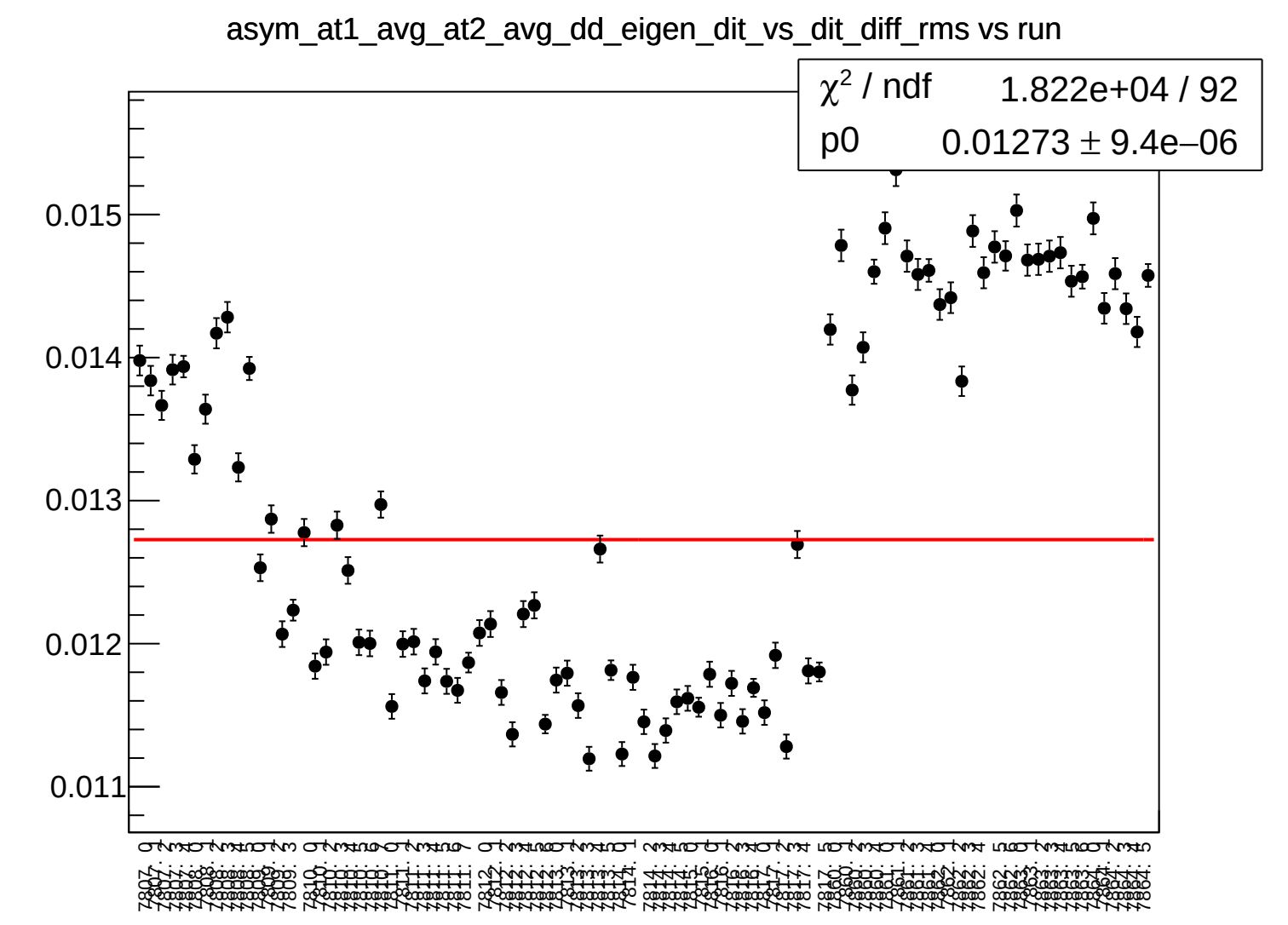

pull1D
Entries 93
Mean −0.01883
Std Dev 0.9546

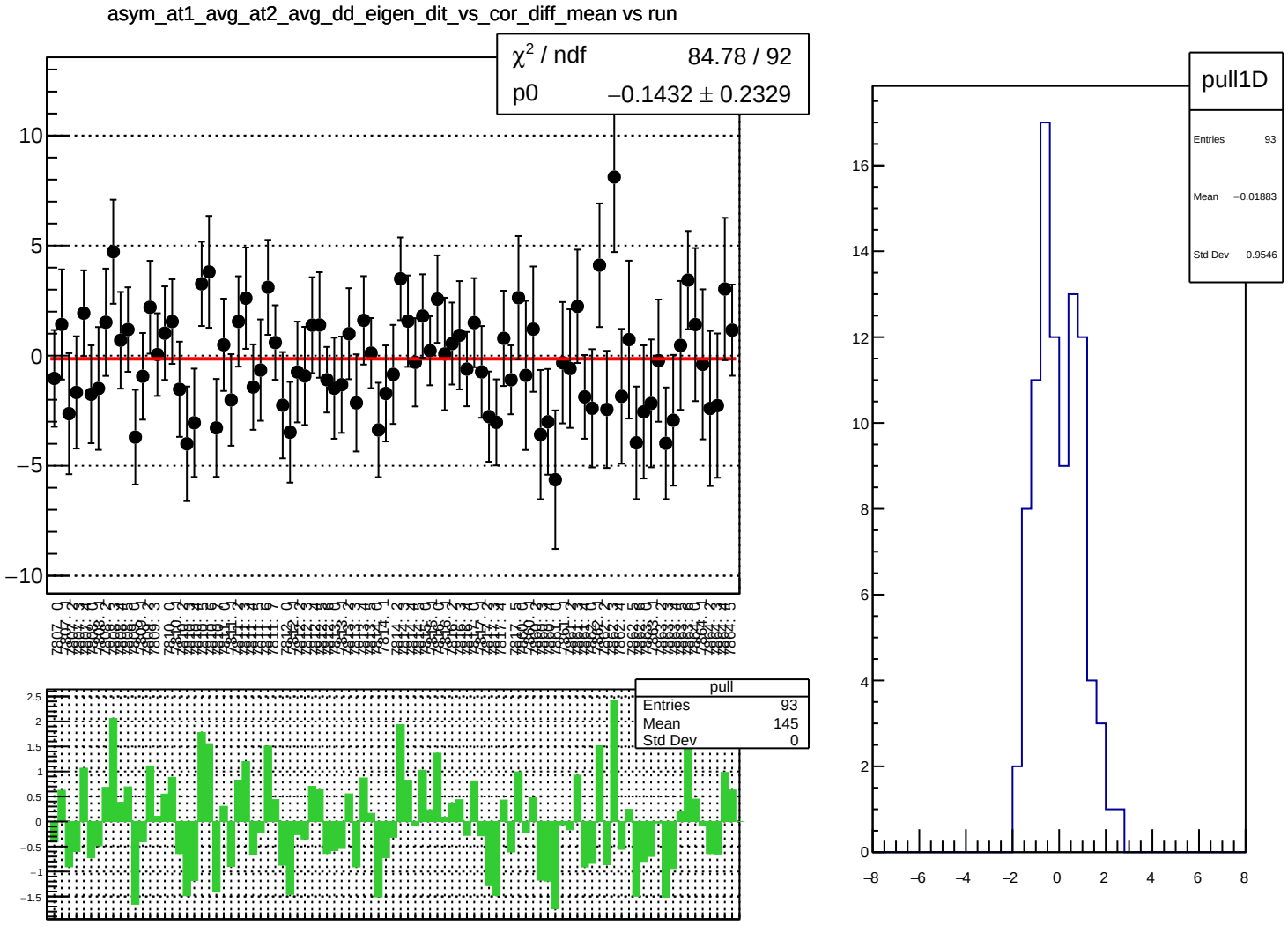

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.681e+04 / 92
p0 221.2 ± 0.1647
340
320
300
280
260
240
220
200
180
160

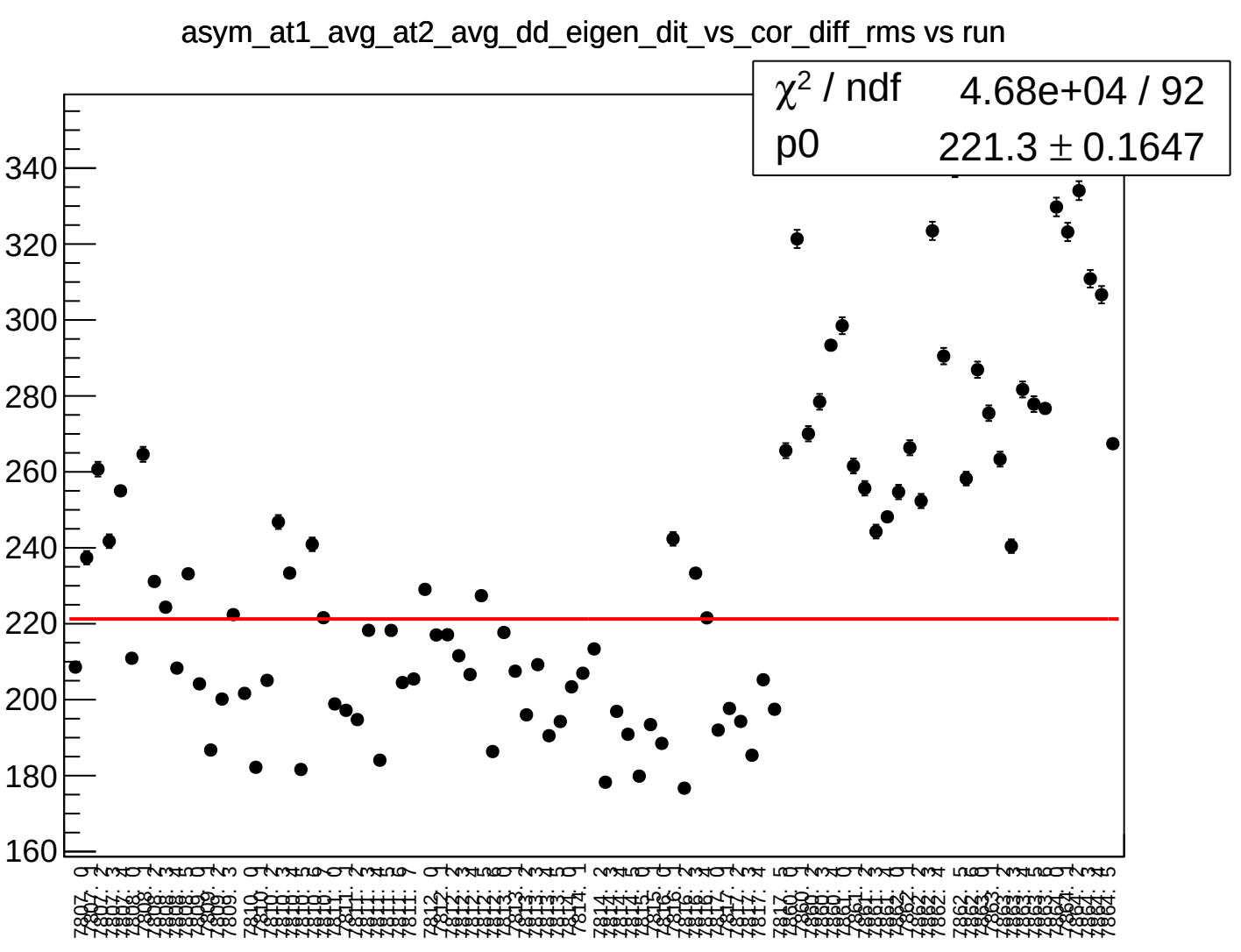

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.78 / 92
p0 −0.1432 ± 0.2329
pull
Entries 93
Mean 145
Std Dev 0
pull1D
Entries 93
Mean −0.01883
Std Dev 0.9546

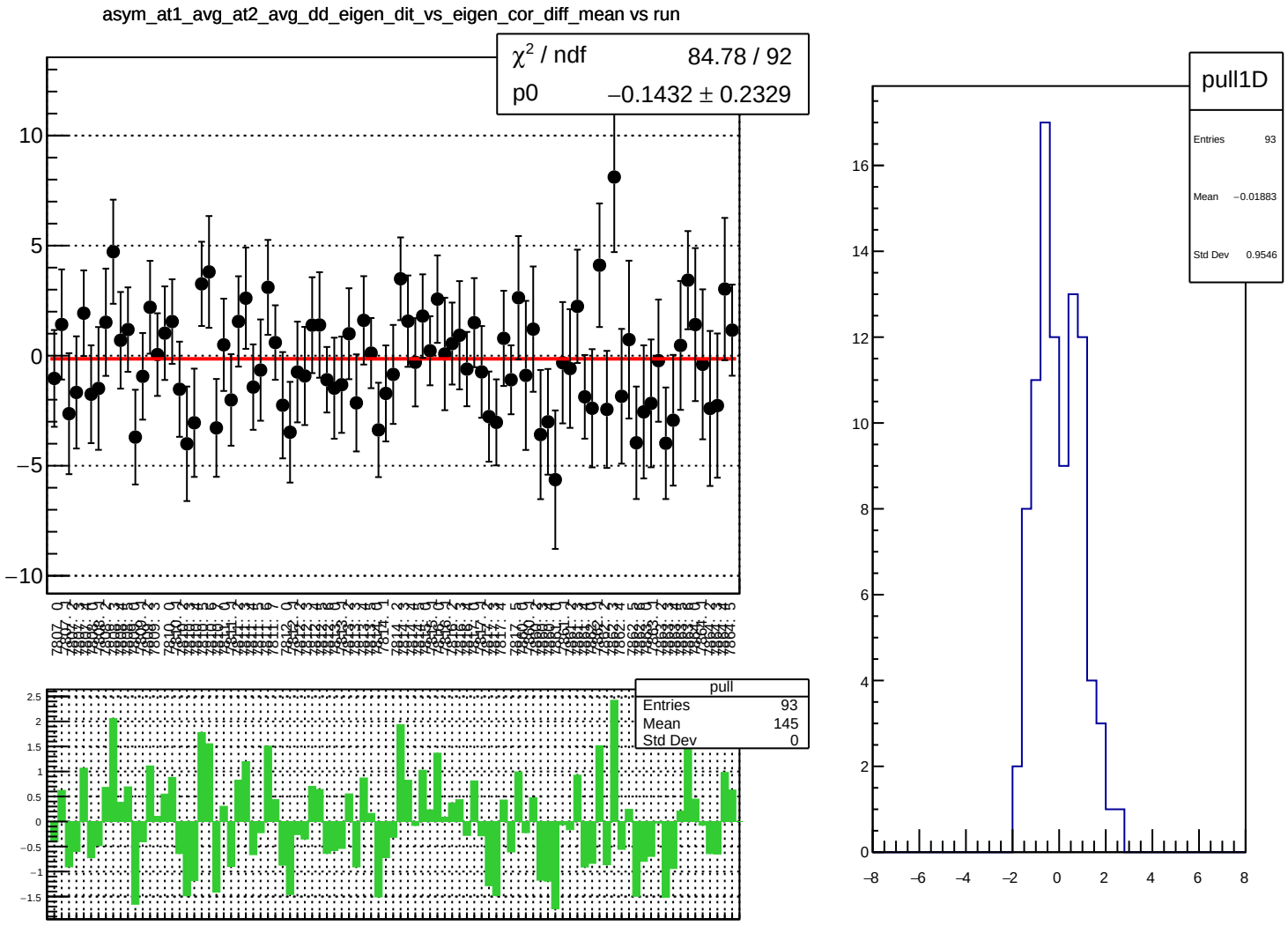

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.681e+04 / 92
p0 221.2 ± 0.1647
340
320
300
280
260
240
220
200
180
160

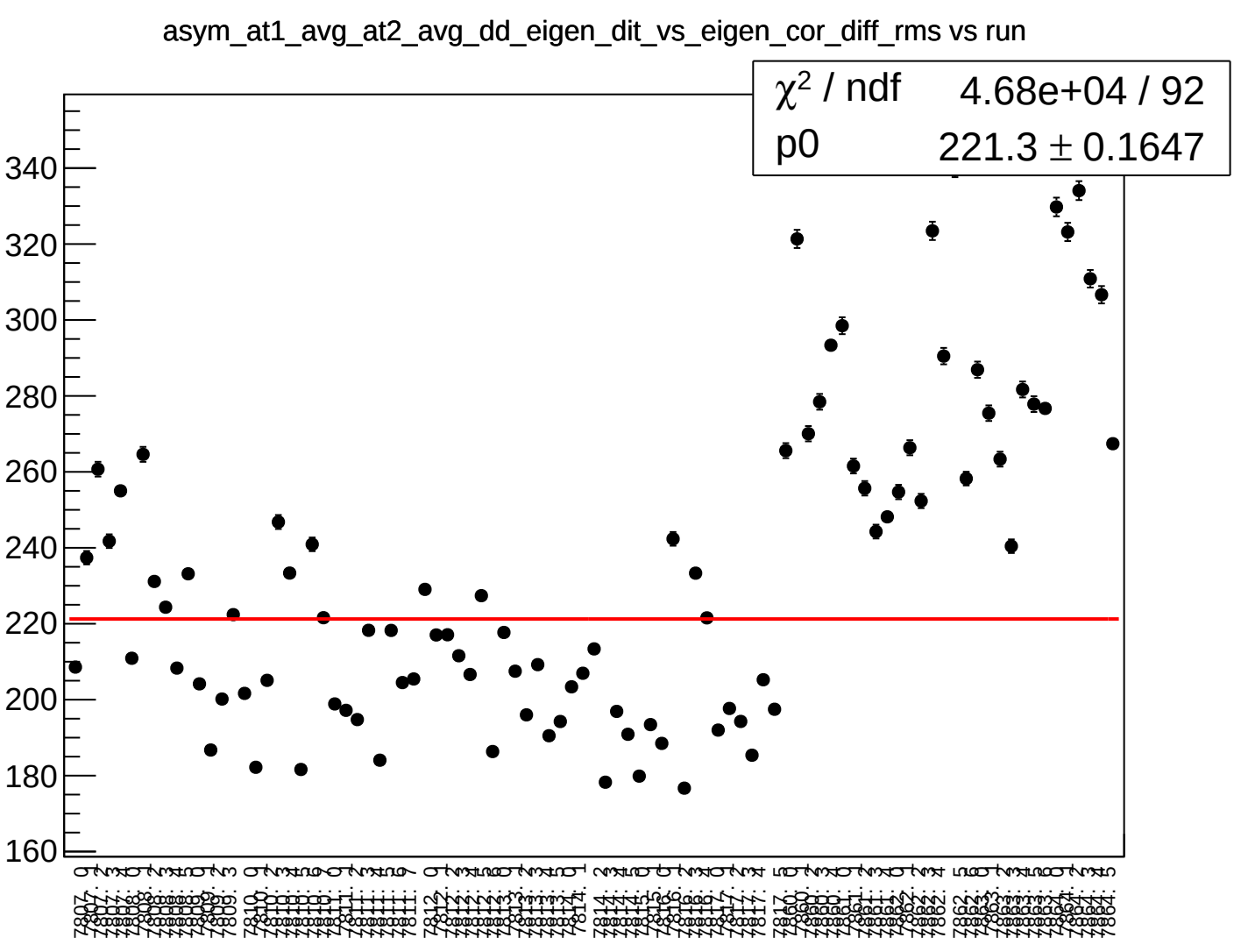

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 77.64 / 92
p0 −1.21e−05 ± 1.329e−05
0.4
0.2
0
−0.2
−0.4
pull
Entries 93
Mean −46.56
Std Dev 71.1
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.004694
Std Dev 0.9137
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

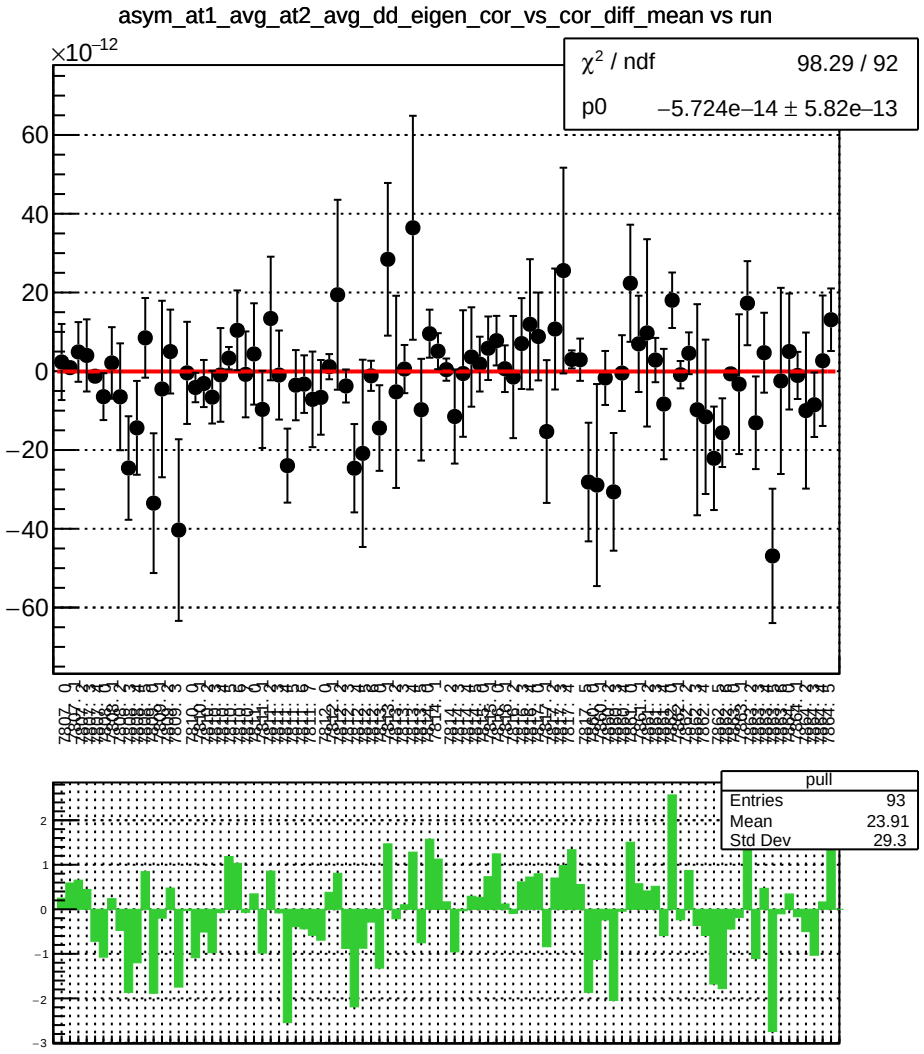

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.822e+04 / 92
p0 0.01273 ± 9.4e−06
0.015
0.014
0.013
0.012
0.011

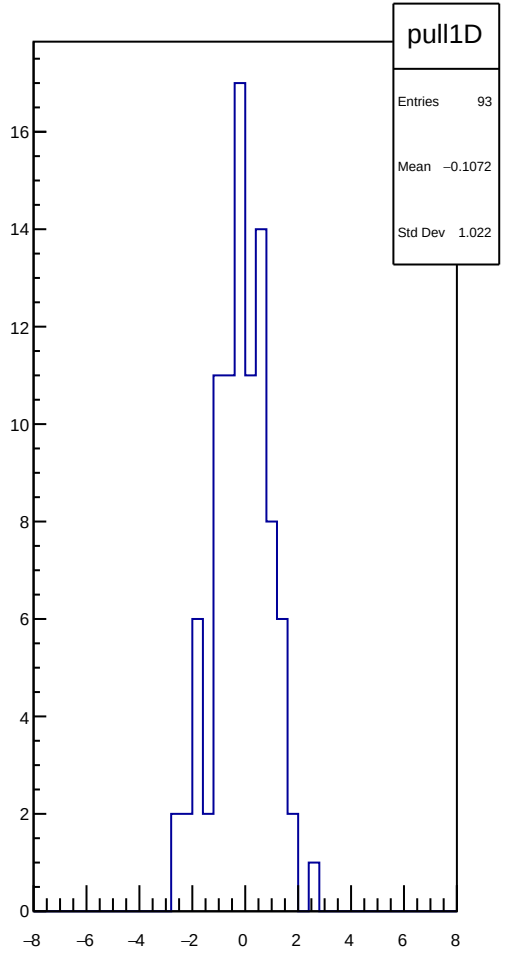

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.78 / 92
p0 −0.1432 ± 0.2329
pull
Entries 93
Mean 145
Std Dev 0
pull1D
Entries 93
Mean −0.01883
Std Dev 0.9546

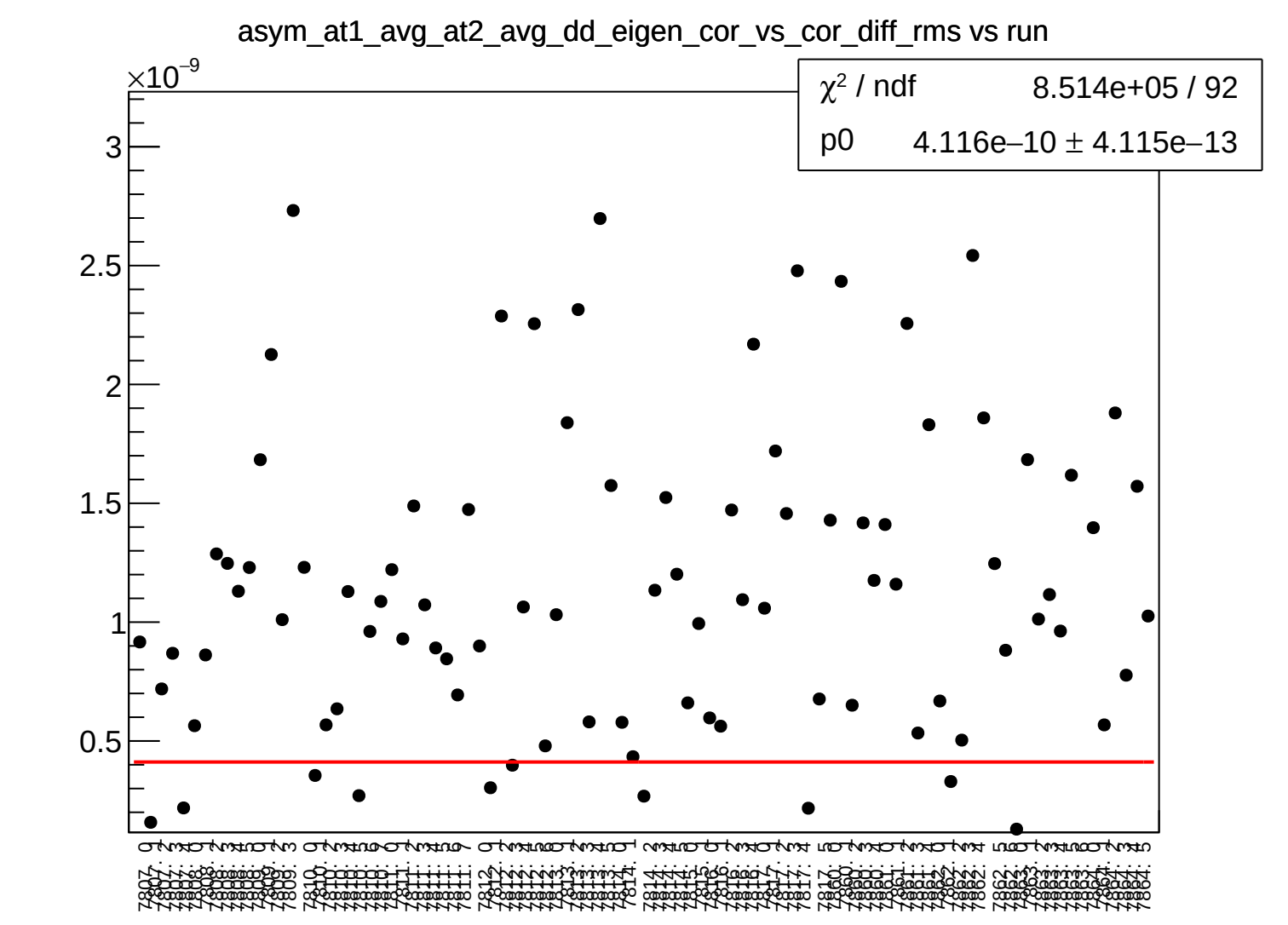

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.68e+04 / 92
p0 221.3 ± 0.1647
340
320
300
280
260
240
220
200
180
160

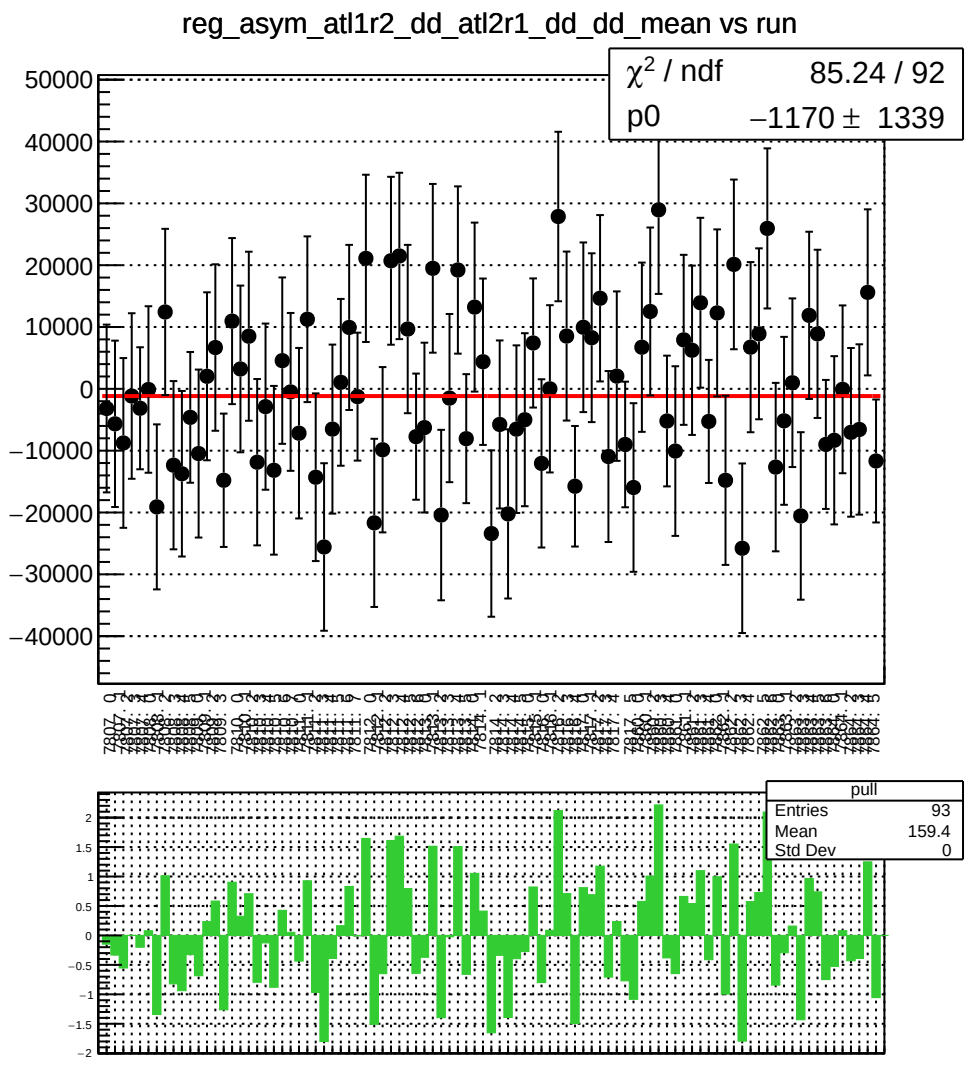

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.78 / 92
p0 −0.1432 ± 0.2329
pull
Entries 93
Mean 145
Std Dev 0
pull1D
Entries 93
Mean −0.01883
Std Dev 0.9546

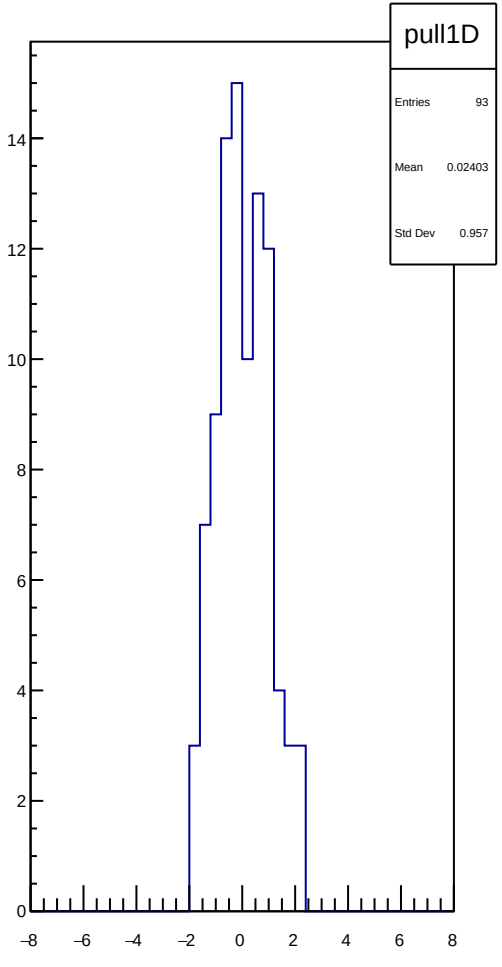

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.68e+04 / 92
p0 221.3 ± 0.1647
340
320
300
280
260
240
220
200
180
160

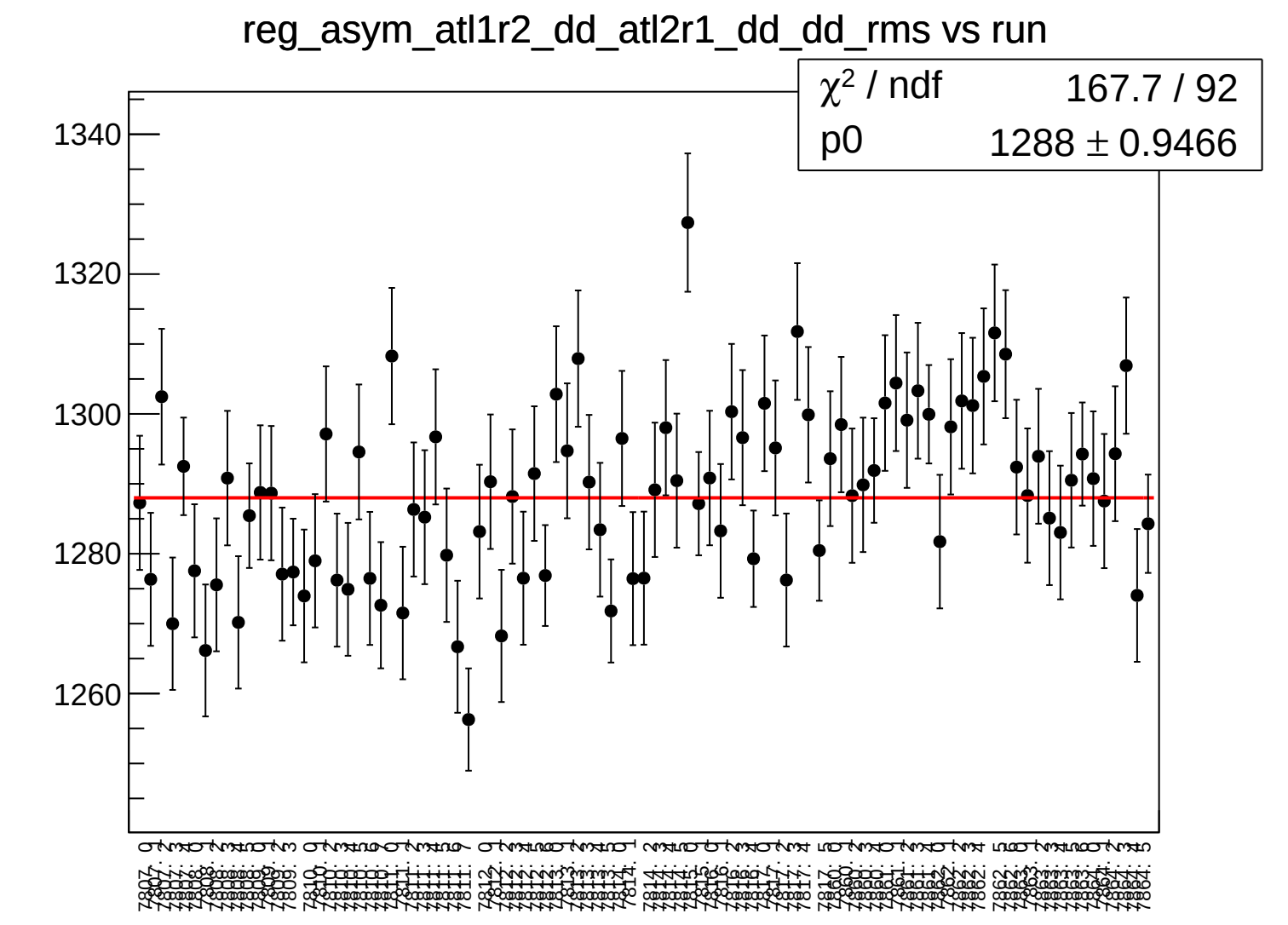

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 98.29 / 92
p0 −5.724e−14 ± 5.82e−13
pull
Entries 93
Mean 23.91
Std Dev 29.3

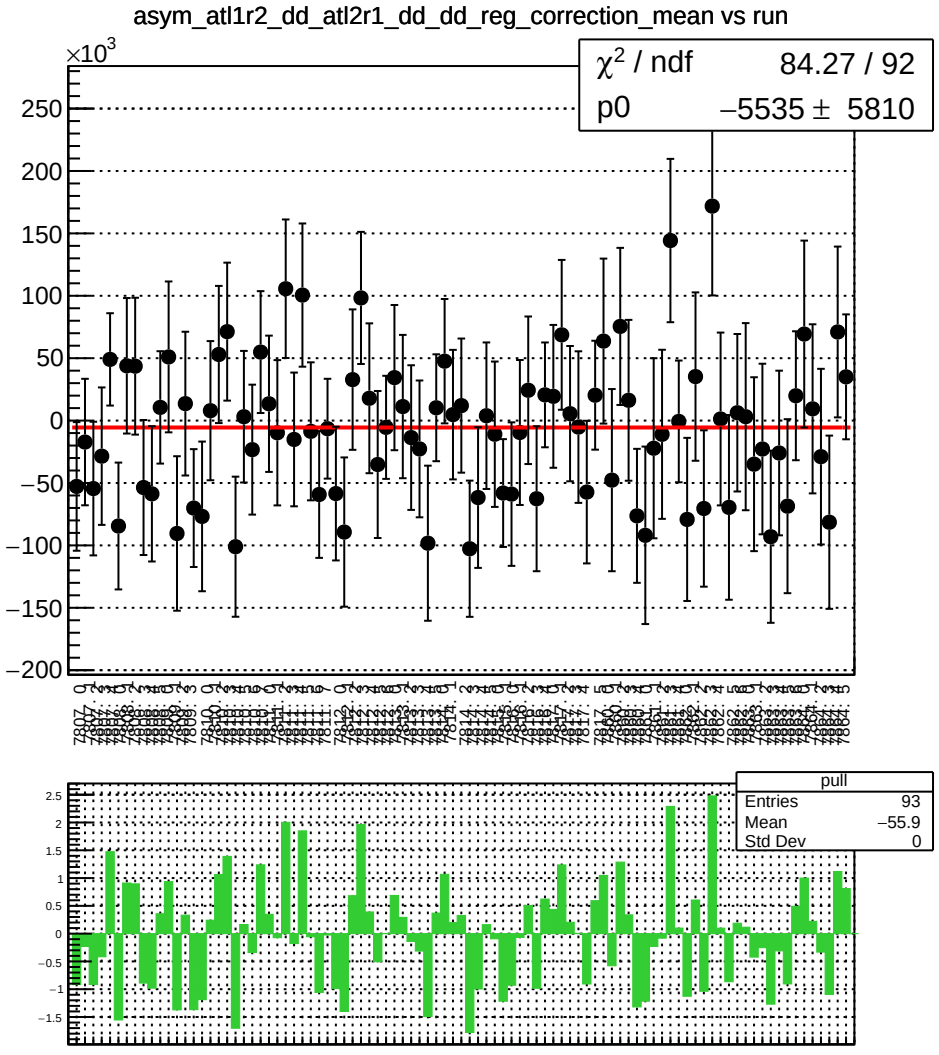

pull1D
Entries 93
Mean −0.1072
Std Dev 1.022

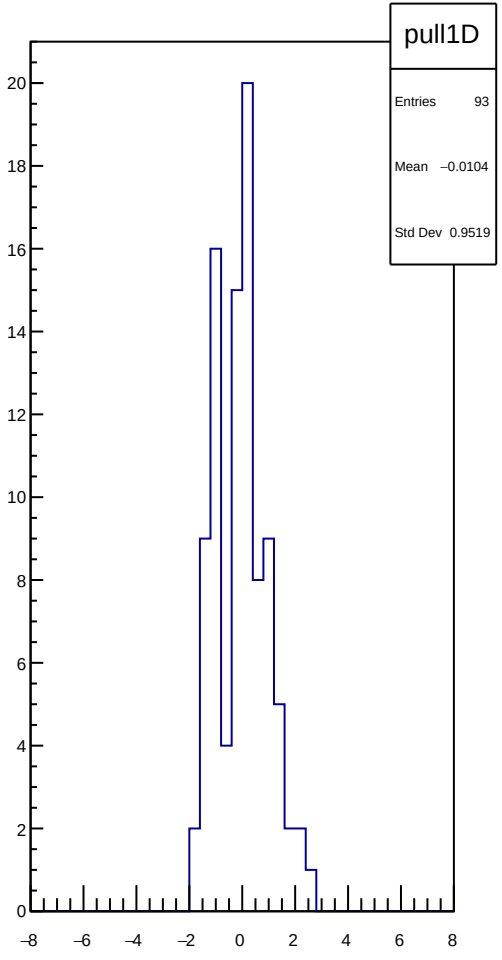

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.514e+05 / 92
p0 4.116e−10 ± 4.115e−13
3
2.5
2
1.5
1
0.5

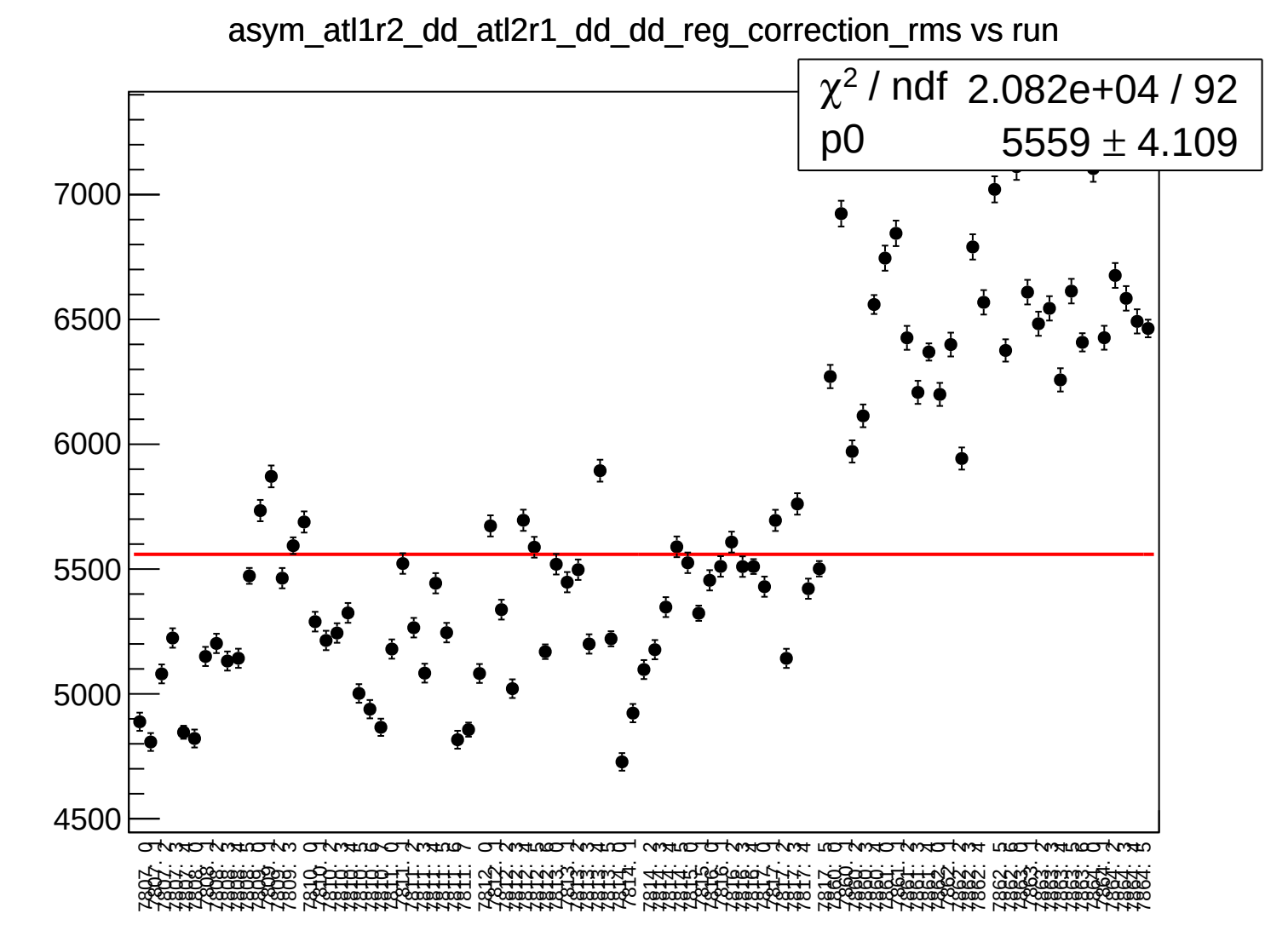

reg_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 85.24 / 92
p0 −1170 ± 1339
pull
Entries 93
Mean 159.4
Std Dev 0

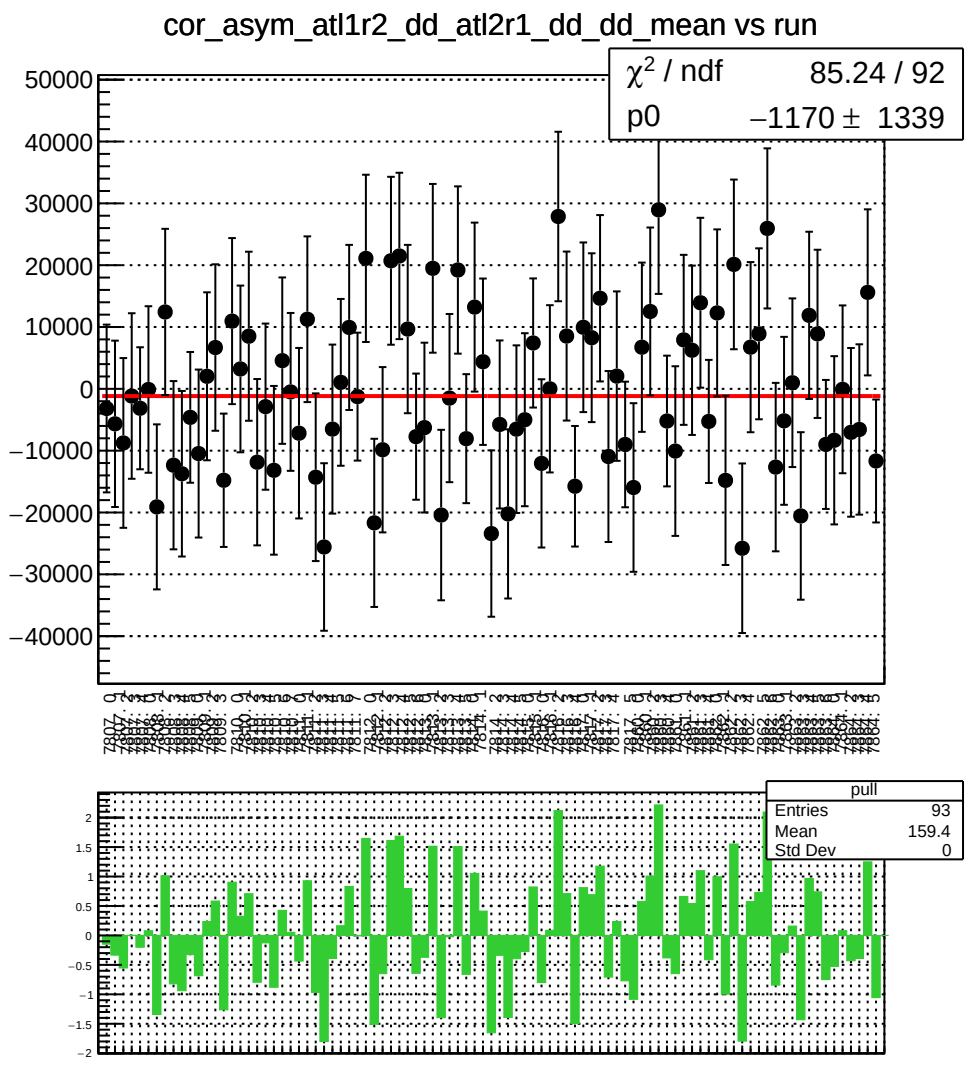

pull1D
Entries 93
Mean 0.02403
Std Dev 0.957

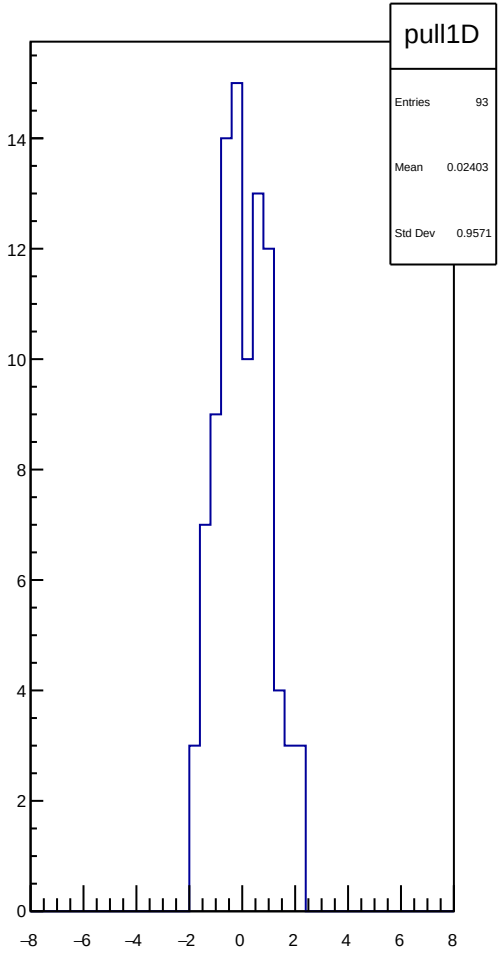

reg_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ^2 / ndf 167.7 / 92
p0 1288 ± 0.9466
1340
1320
1300
1280
1260

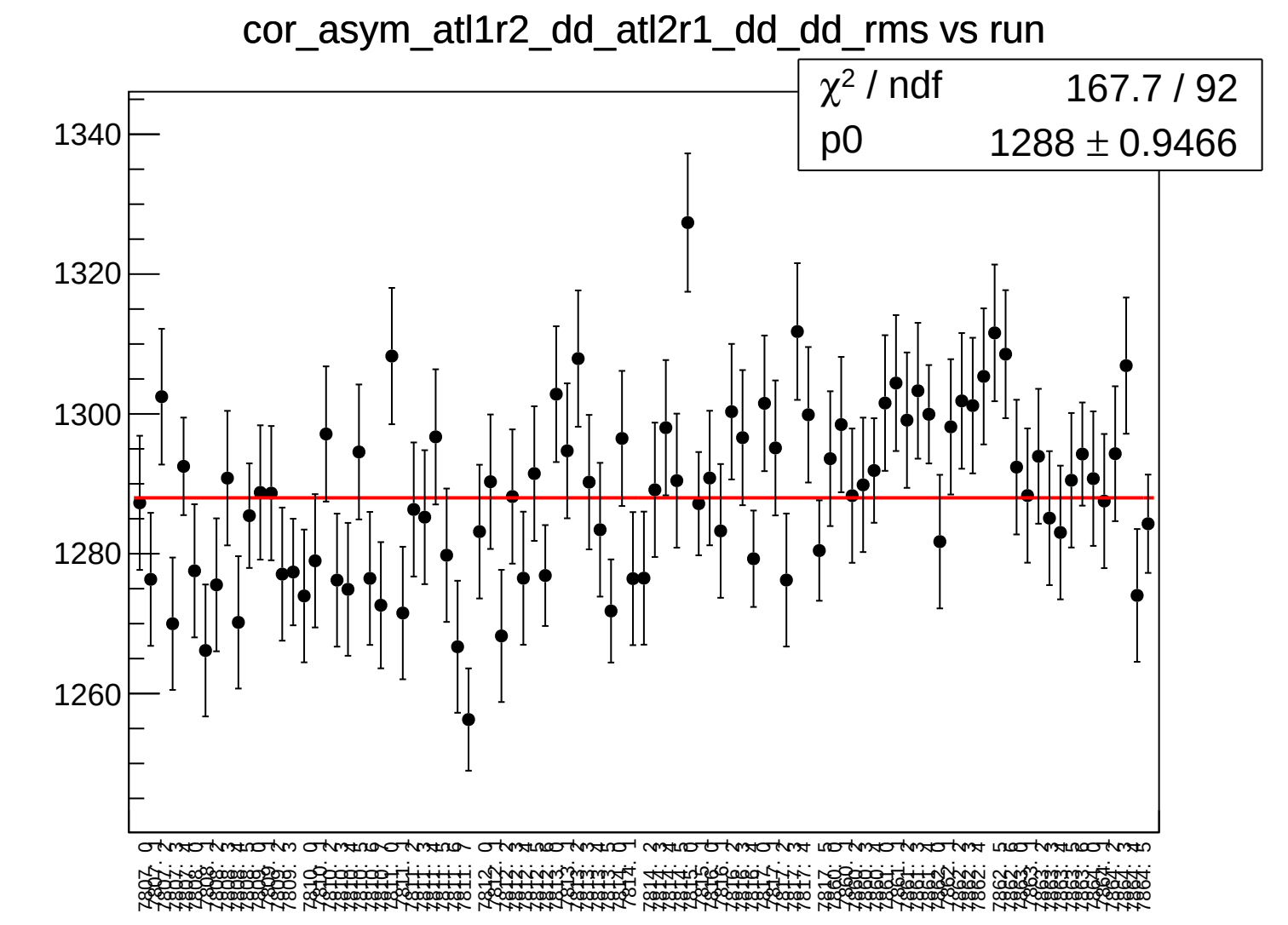

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_mean vs run
×10^3
χ² / ndf 84.27 / 92
p0 −5535 ± 5810
pull
Entries 93
Mean −55.9
Std Dev 0

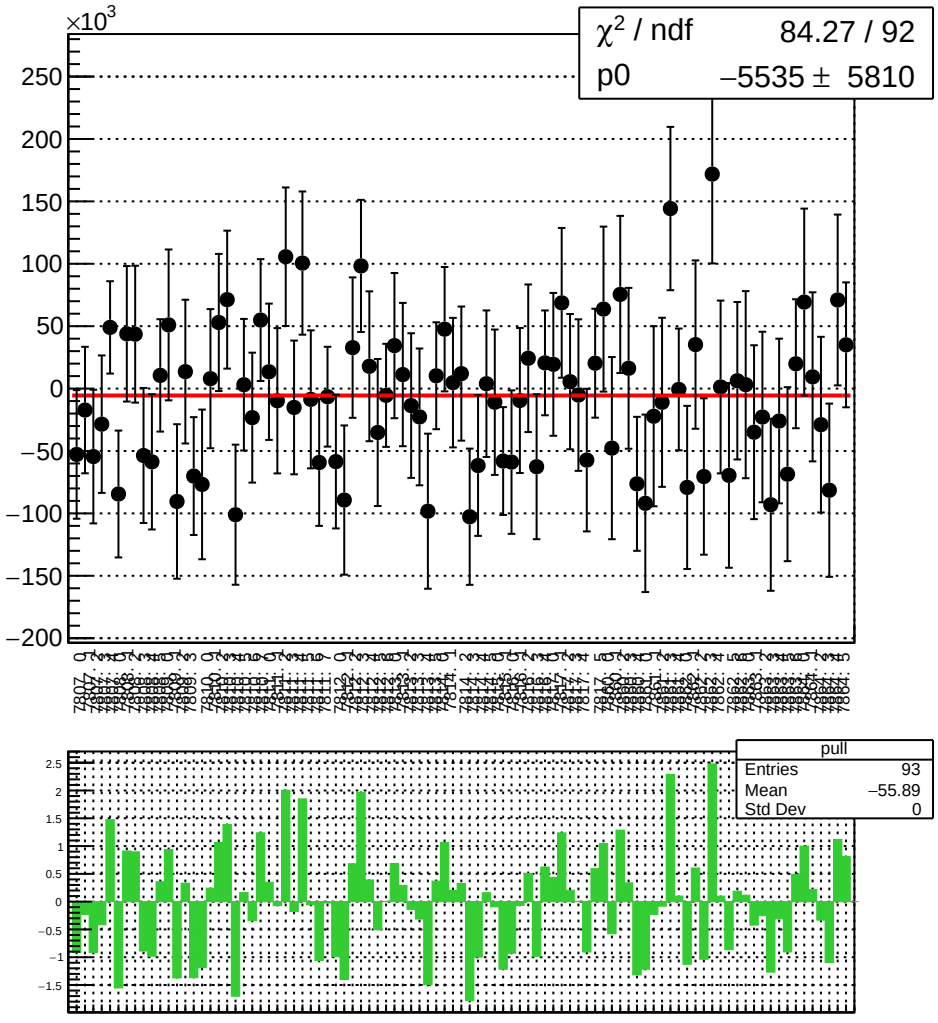

pull1D
Entries 93
Mean −0.0104
Std Dev 0.9519

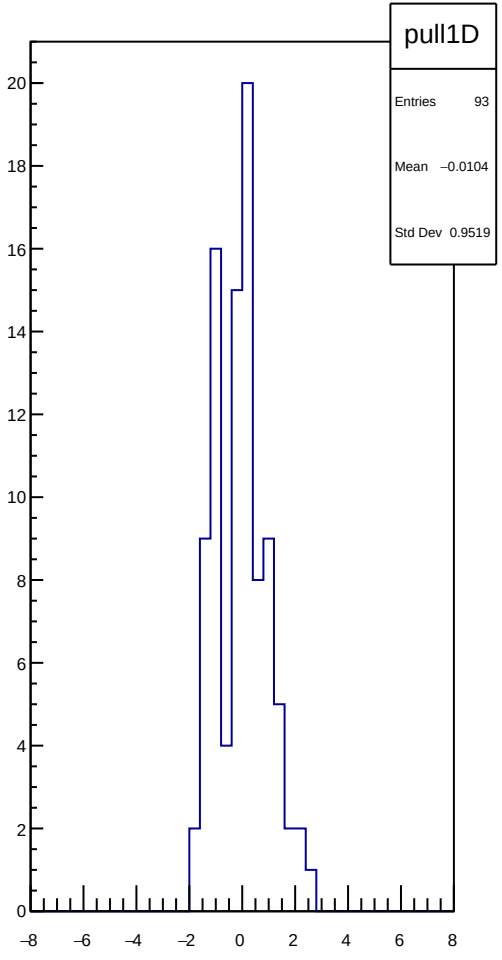

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_rms vs run
χ² / ndf 2.082e+04 / 92
p0 5559 ± 4.109
7000
6500
6000
5500
5000
4500

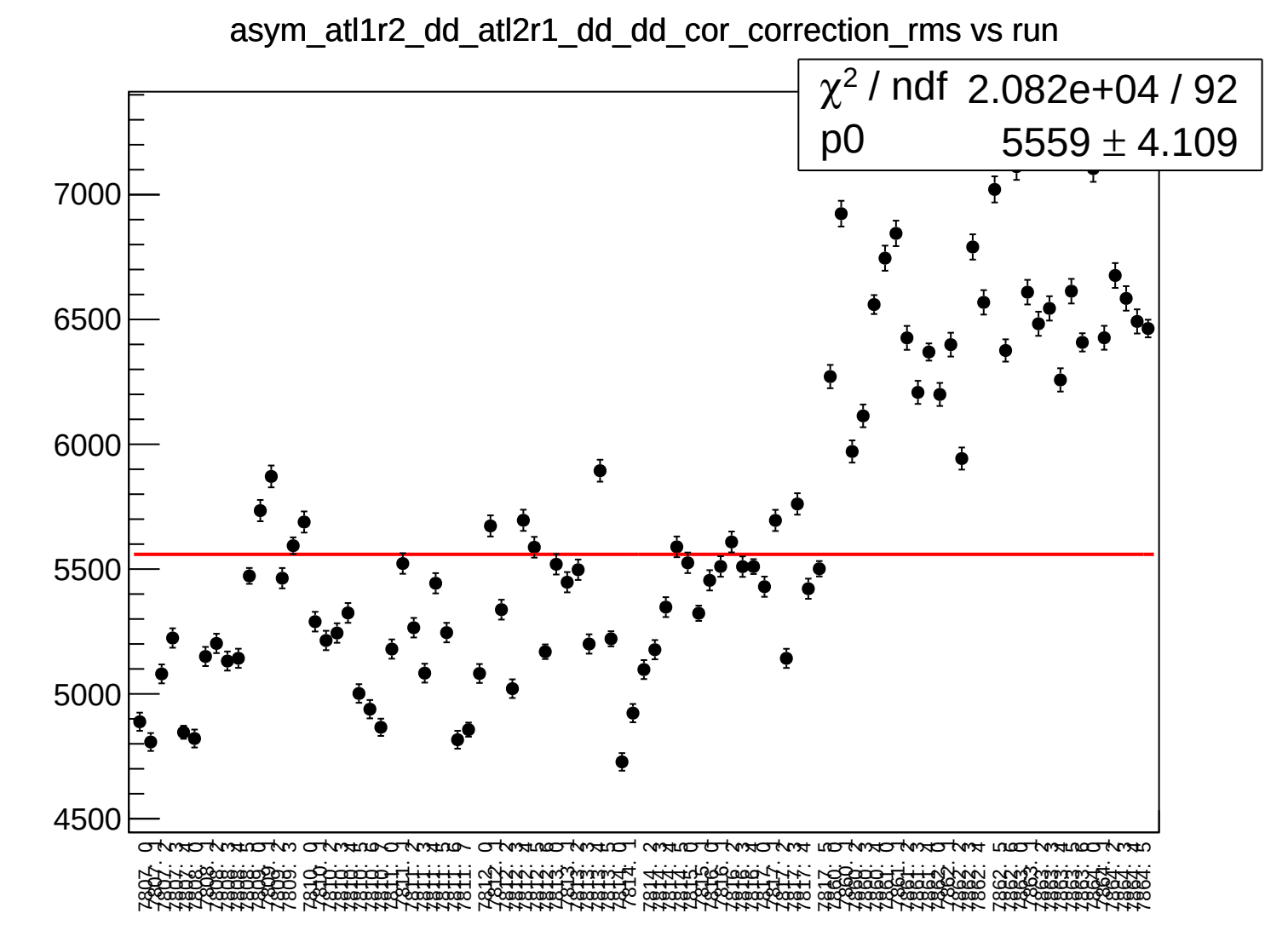

cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 85.24 / 92
p0 −1170 ± 1339
pull
Entries 93
Mean 159.4
Std Dev 0

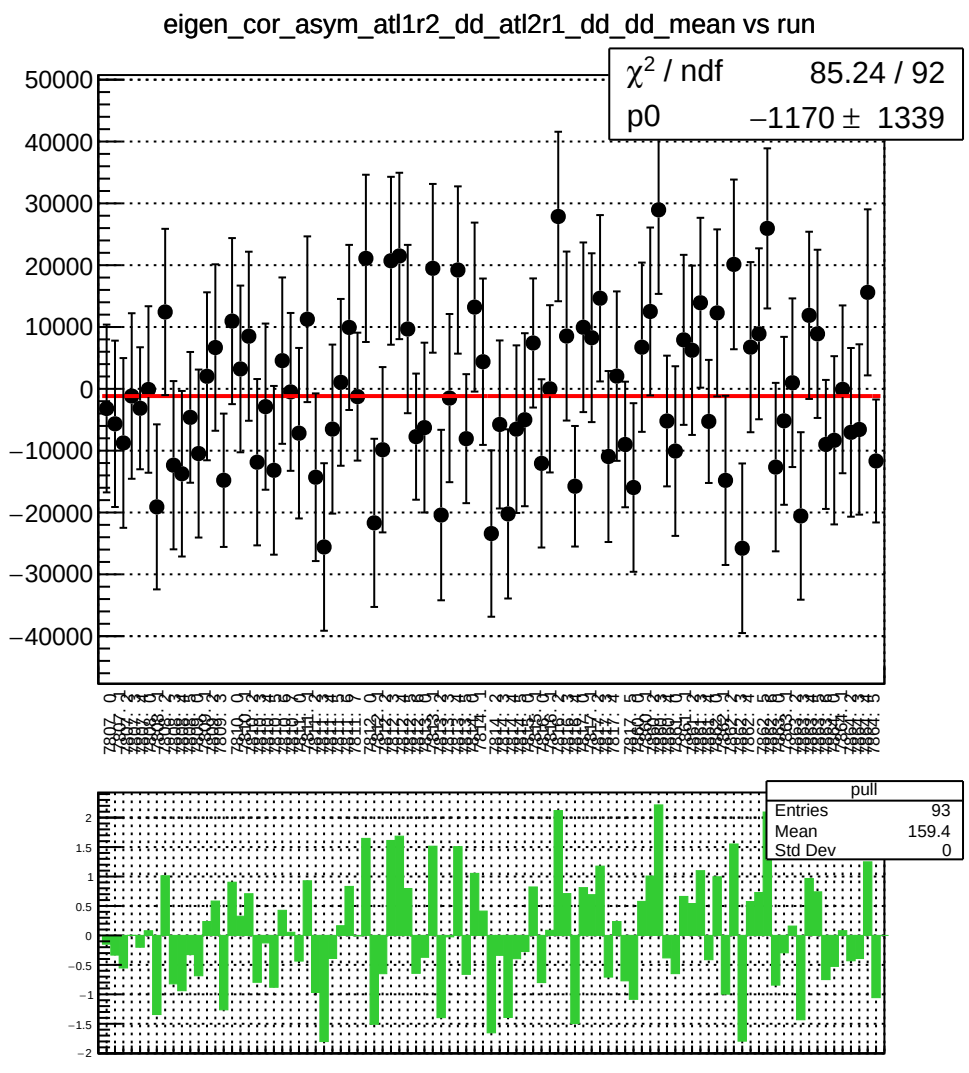

pull1D
Entries 93
Mean 0.02403
Std Dev 0.9571

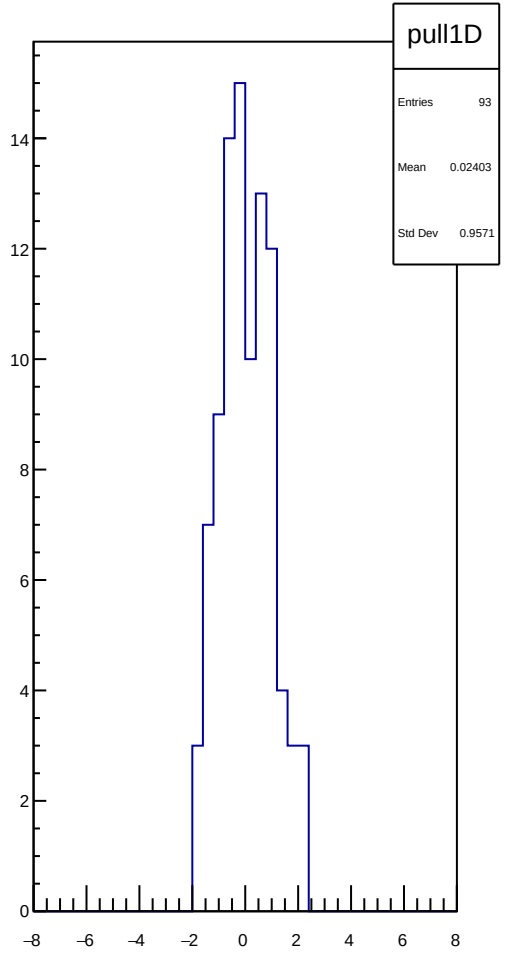

cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 167.7 / 92
p0 1288 ± 0.9466
1340
1320
1300
1280
1260

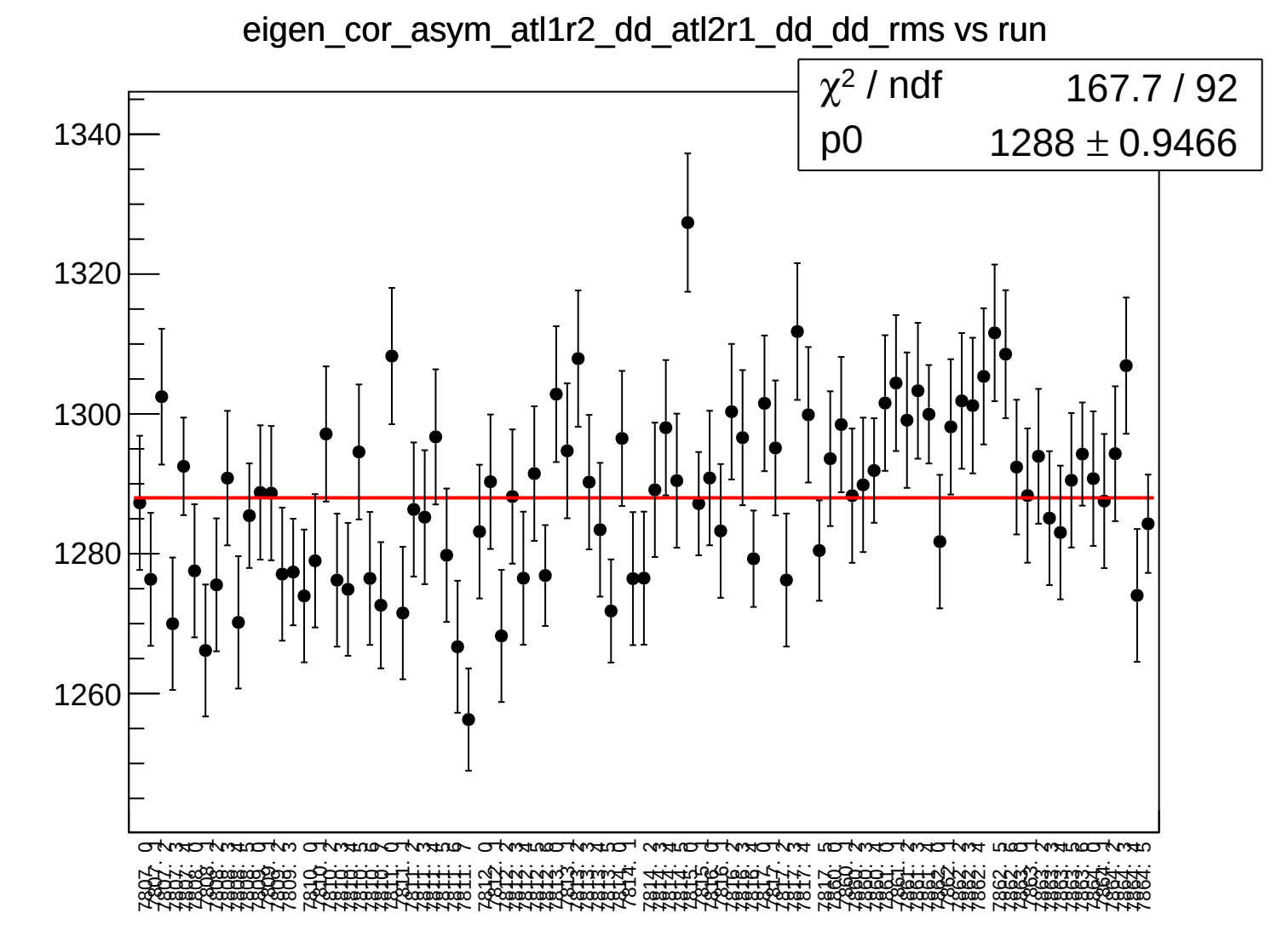

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_mean vs run
χ² / ndf 84.27 / 92
p0 −5535 ± 5810
×10³
pull
Entries 93
Mean −55.89
Std Dev 0

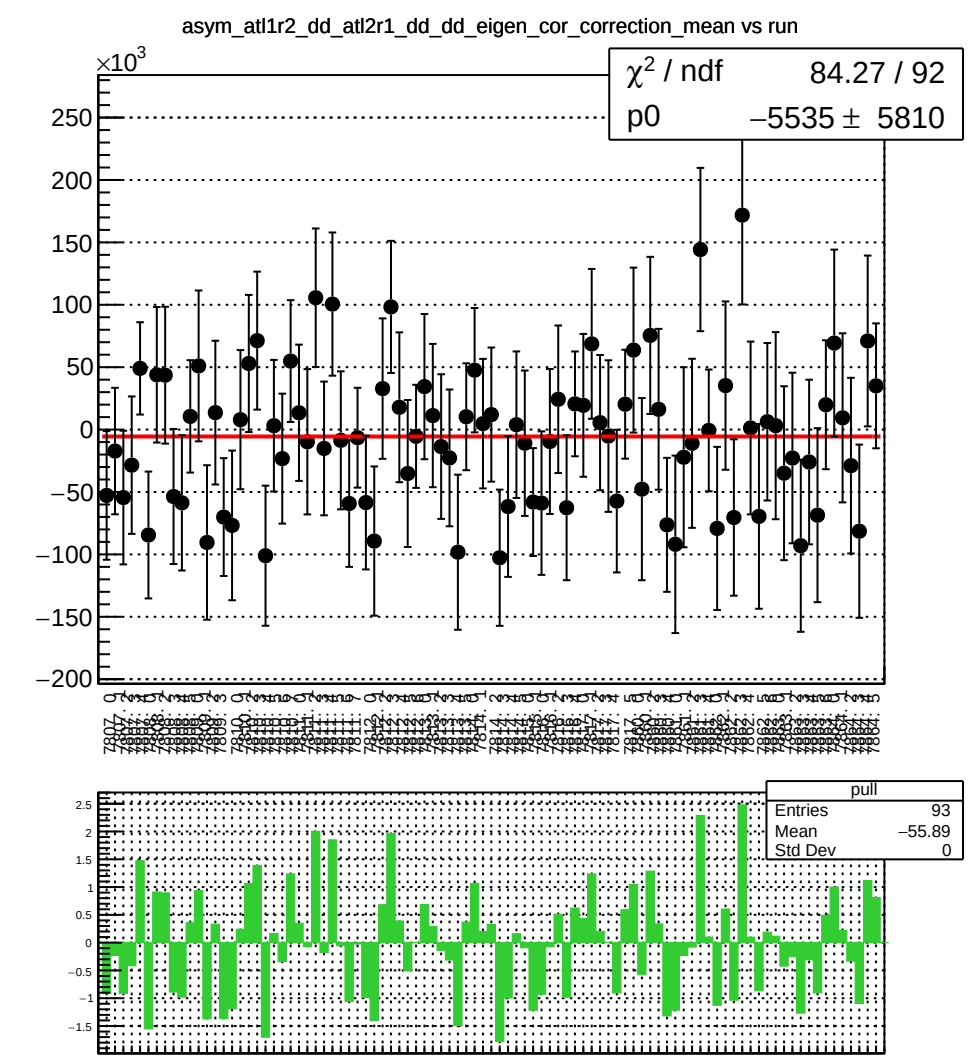

pull1D
Entries 93
Mean −0.0104
Std Dev 0.9519

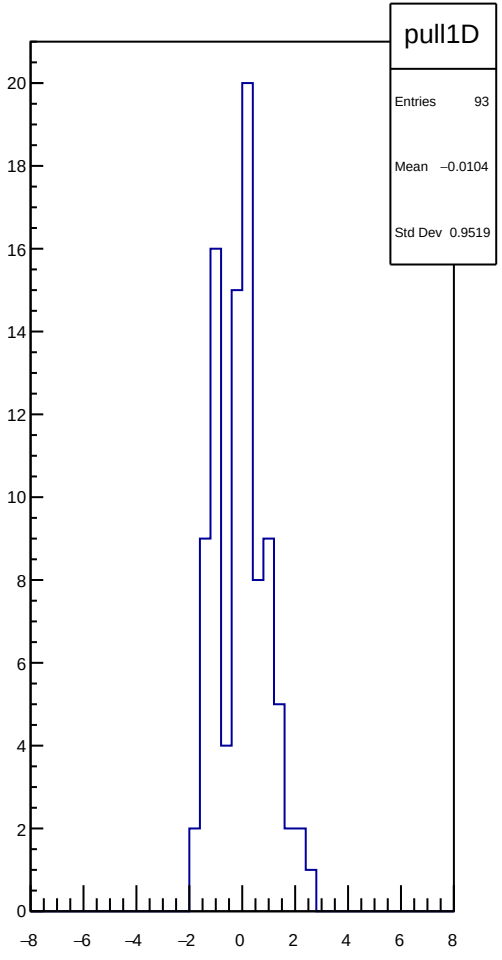

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_rms vs run
χ² / ndf 2.082e+04 / 92
p0 5559 ± 4.109
7000
6500
6000
5500
5000
4500

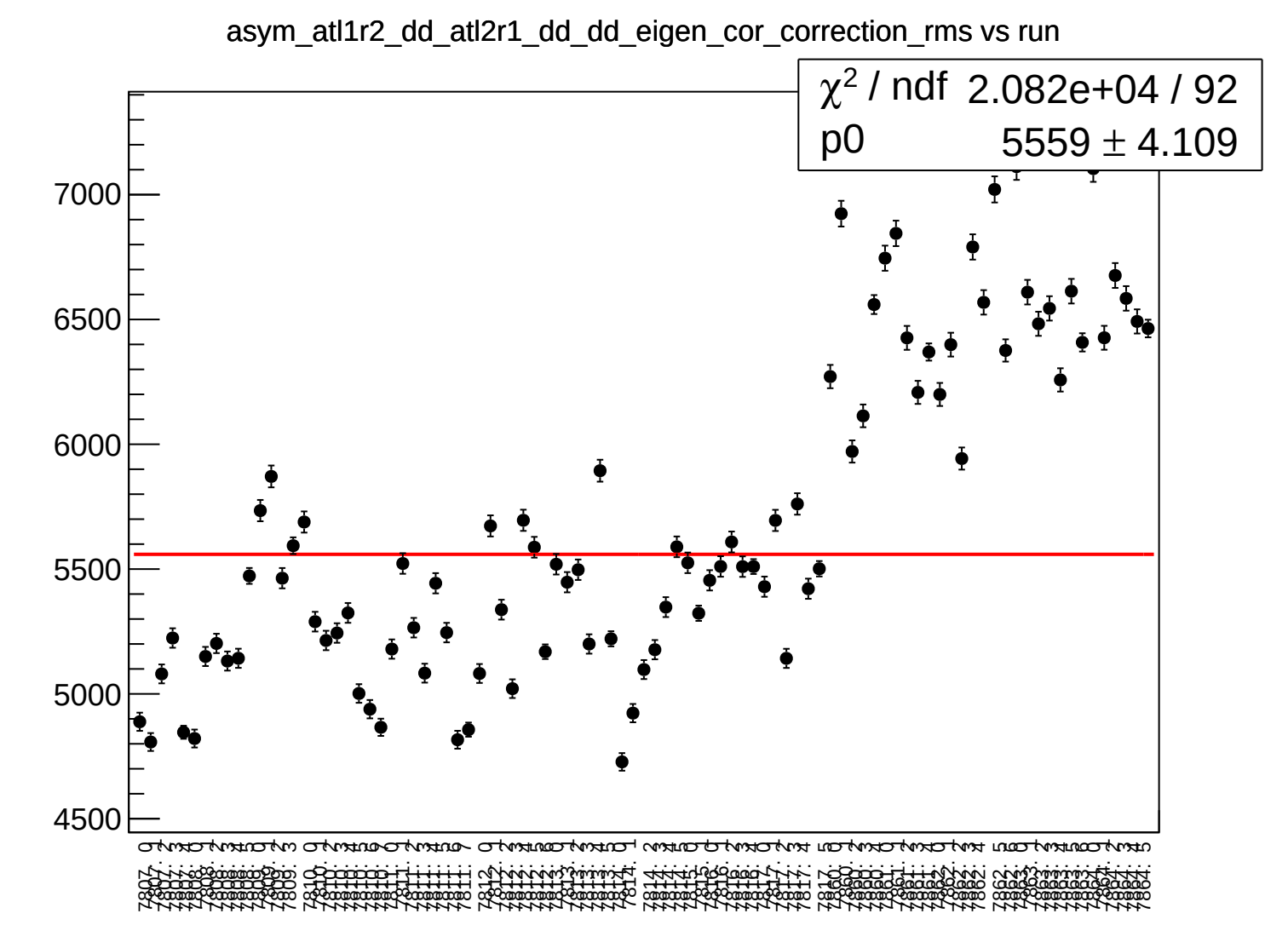

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 85.24 / 92
p0 −1170 ± 1339
pull
Entries 93
Mean 159.4
Std Dev 0

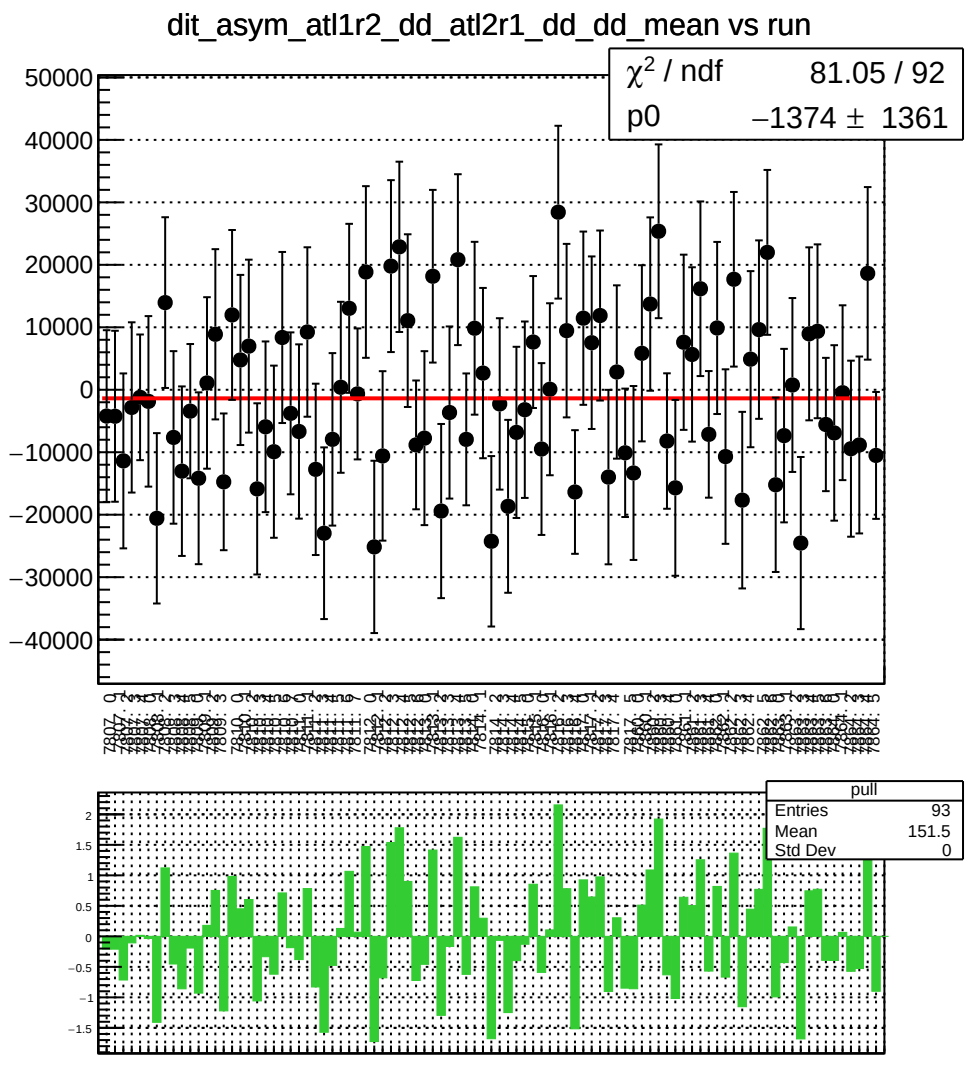

pull1D
Entries 93
Mean 0.02403
Std Dev 0.9571

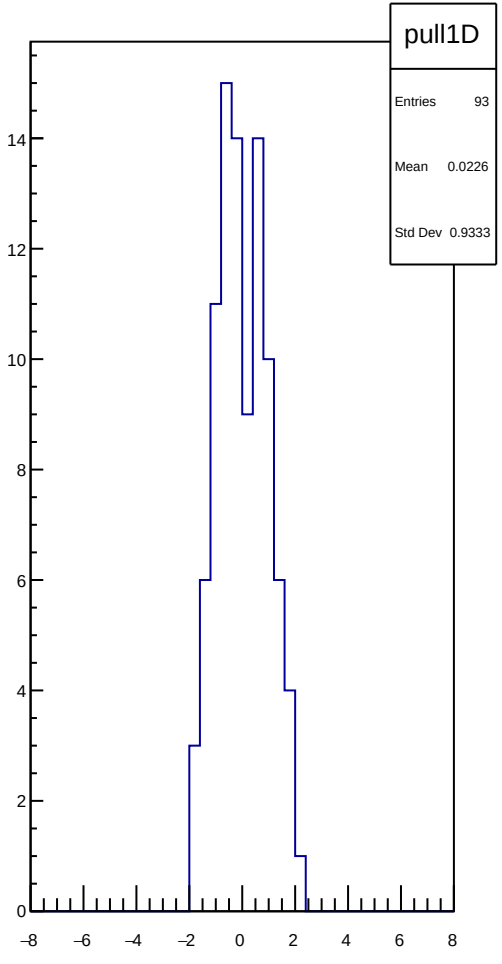

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 167.7 / 92
p0 1288 ± 0.9466
1340
1320
1300
1280
1260

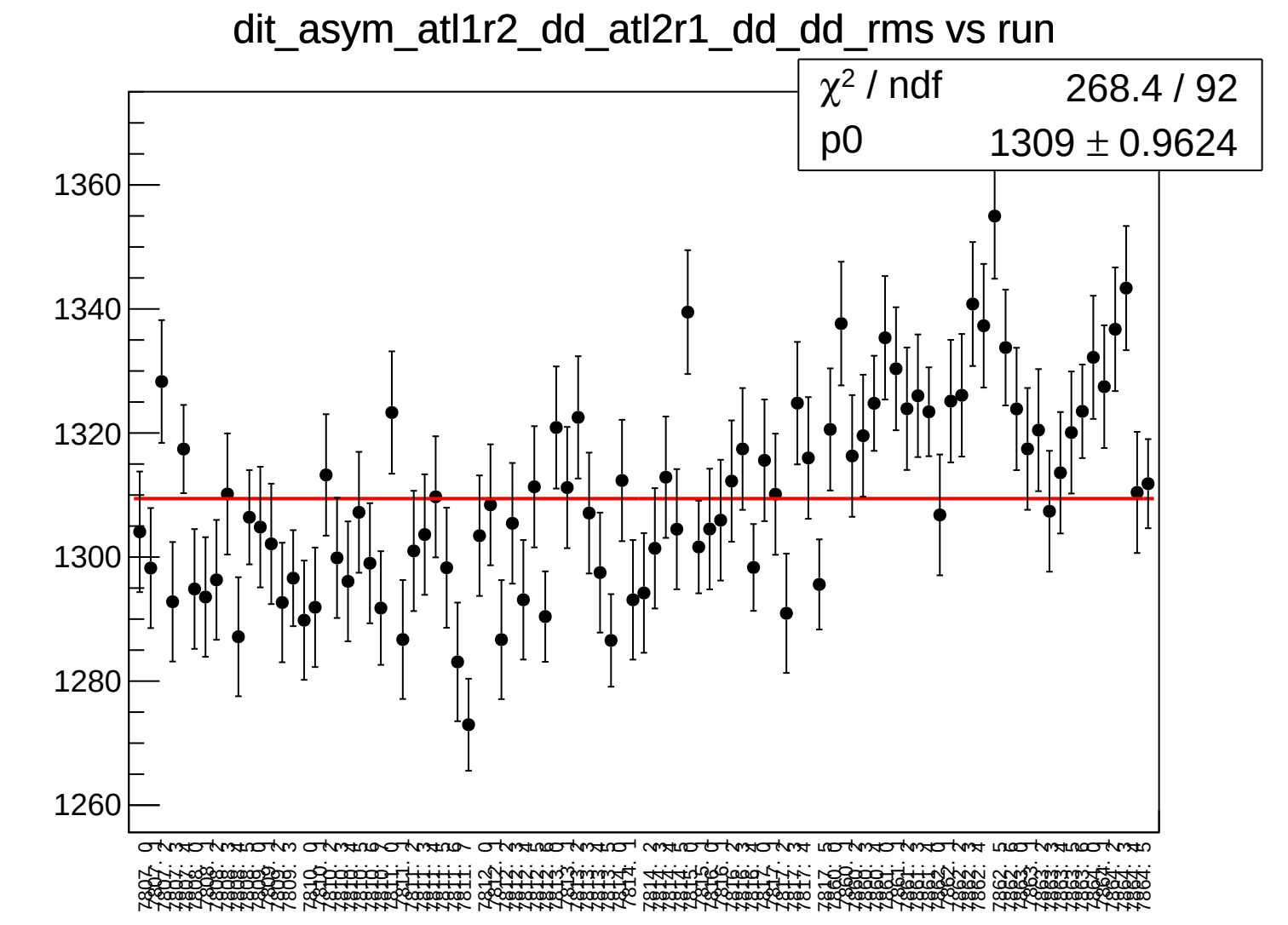

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 84.27 / 92
p0 −5535 ± 5810
×10³
pull
Entries 93
Mean −55.89
Std Dev 0

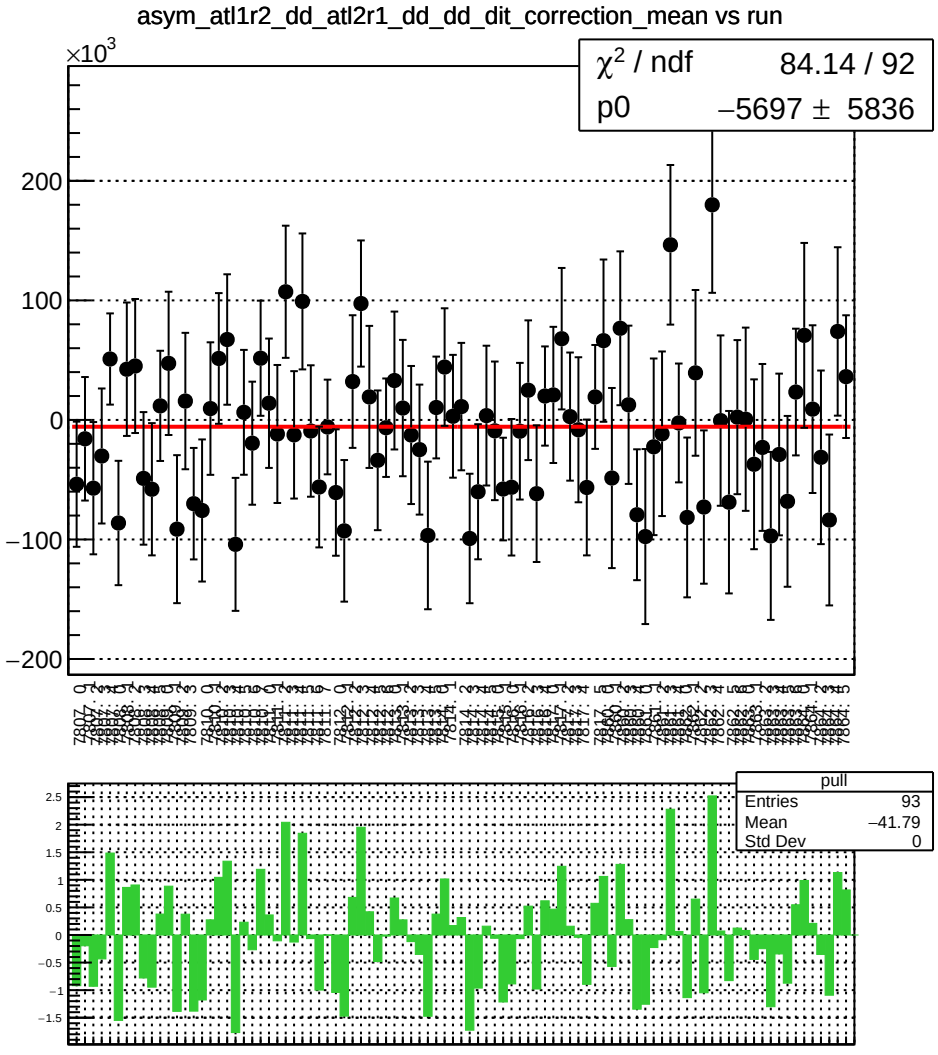

pull1D
Entries 93
Mean −0.0104
Std Dev 0.9519

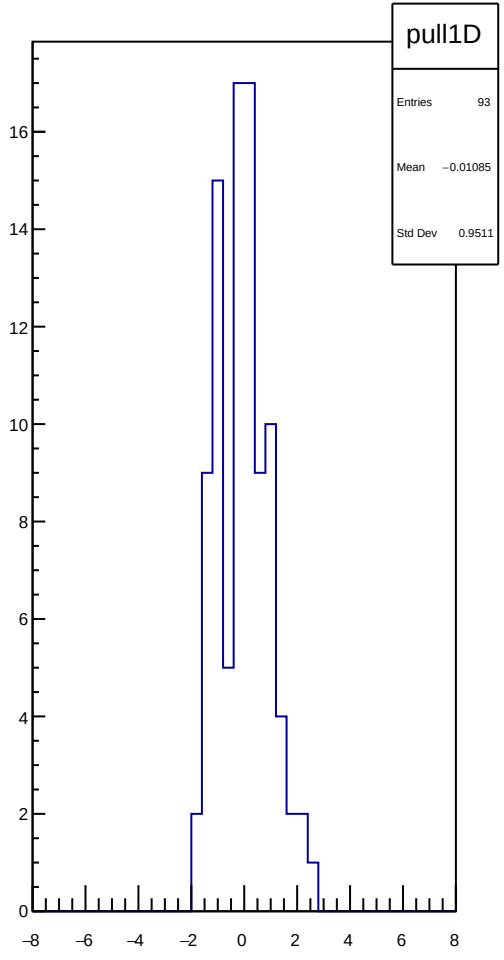

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.082e+04 / 92
p0 5559 ± 4.109
7000
6500
6000
5500
5000
4500

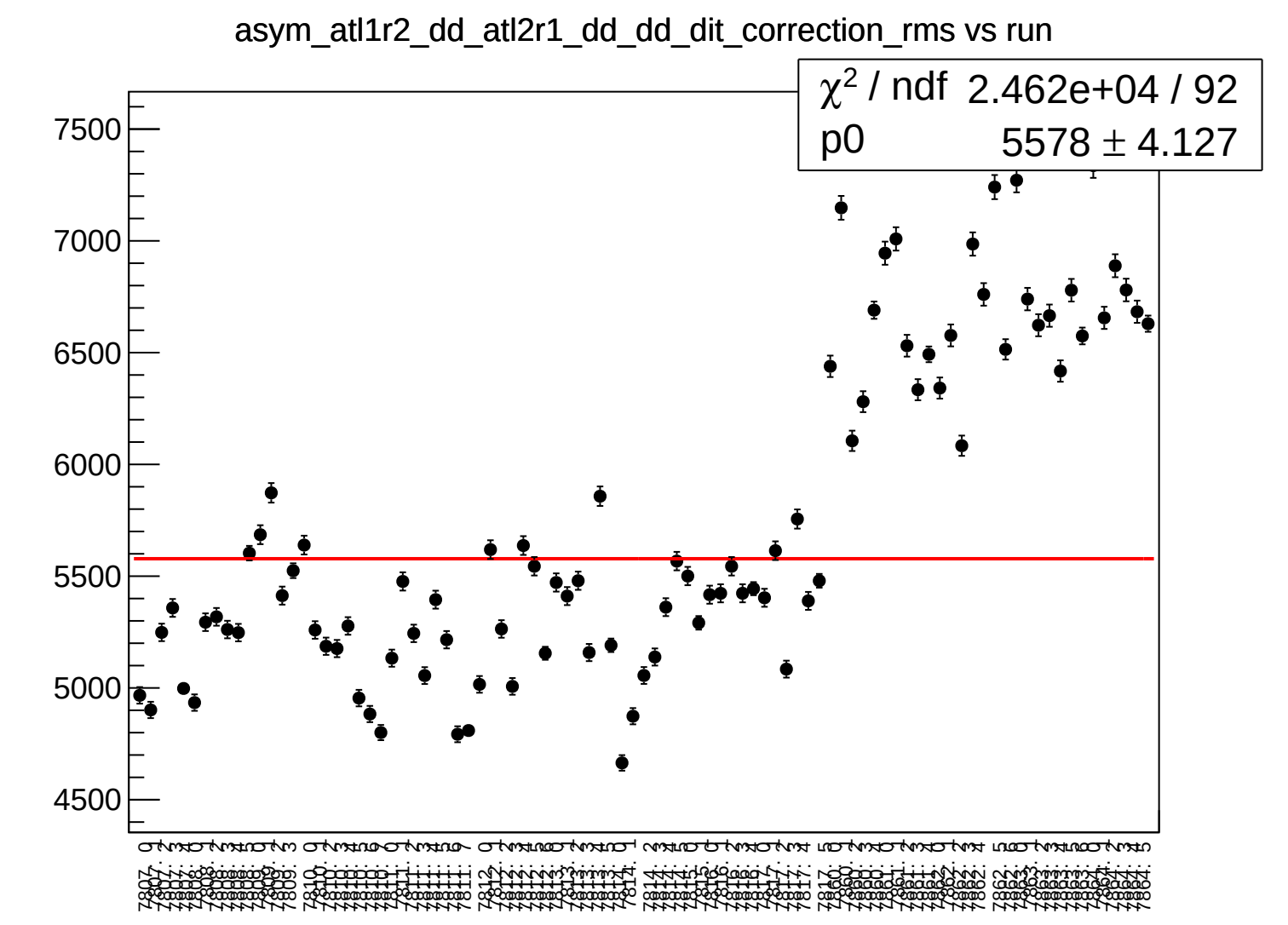

dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 81.05 / 92
p0 −1374 ± 1361
pull
Entries 93
Mean 151.5
Std Dev 0

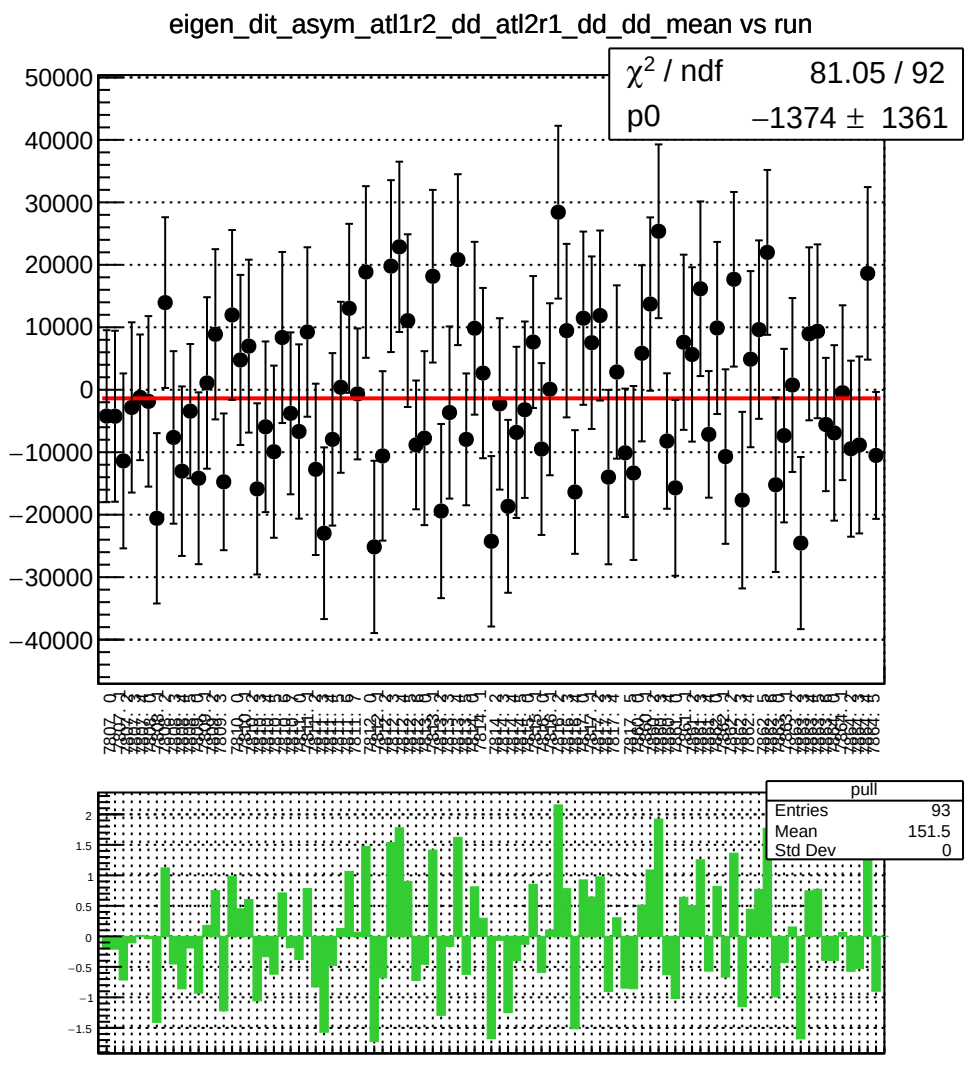

pull1D
Entries 93
Mean 0.0226
Std Dev 0.9333

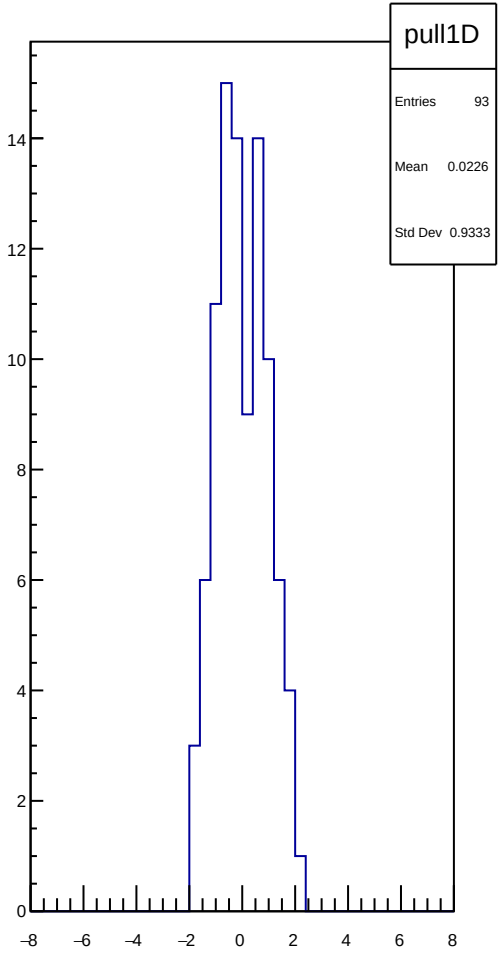

dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 268.4 / 92
p0 1309 ± 0.9624
1360
1340
1320
1300
1280
1260

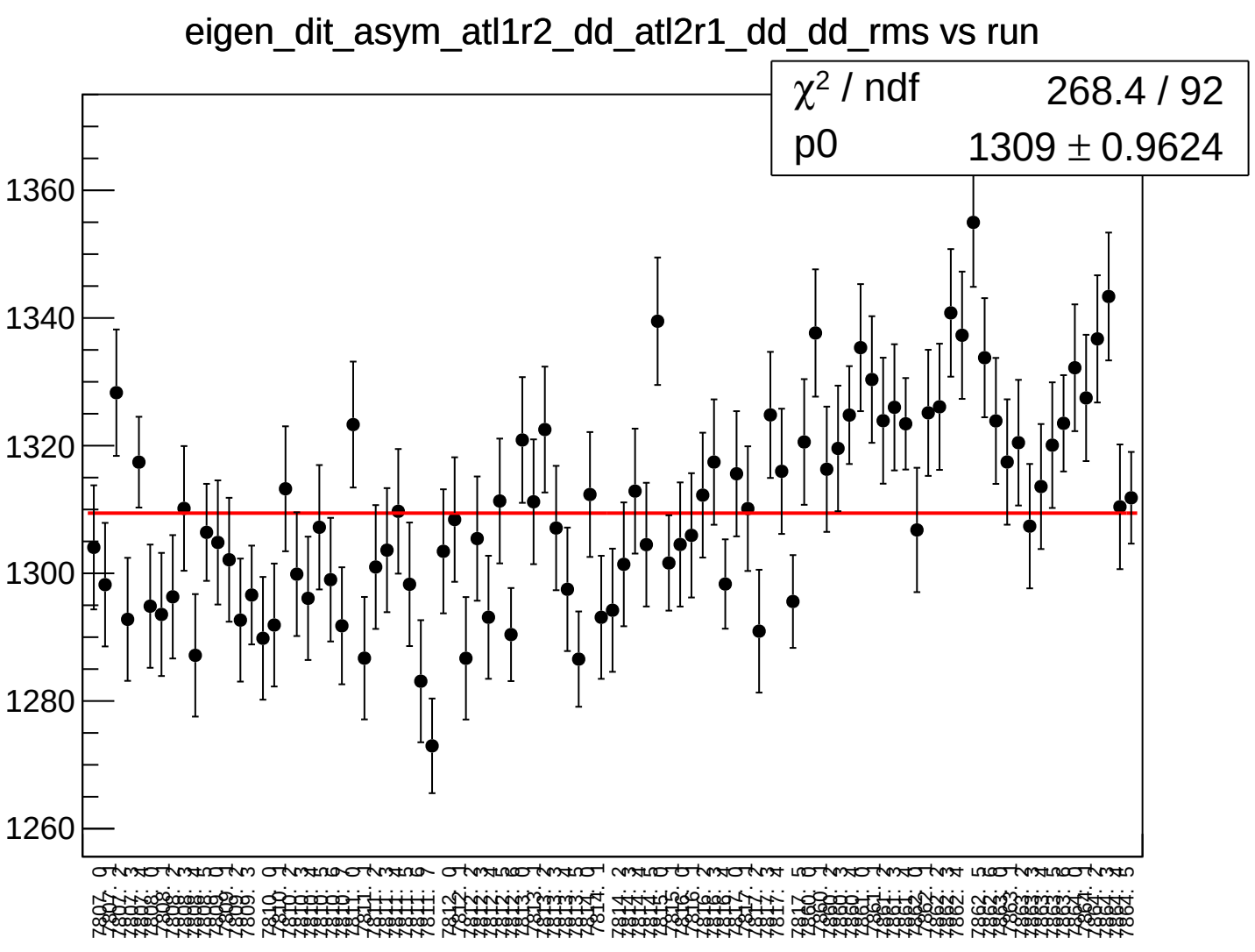

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_mean vs run
×10^3
χ² / ndf 84.14 / 92
p0 −5697 ± 5836
200
100
0
−100
−200
pull
Entries 93
Mean −41.79
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

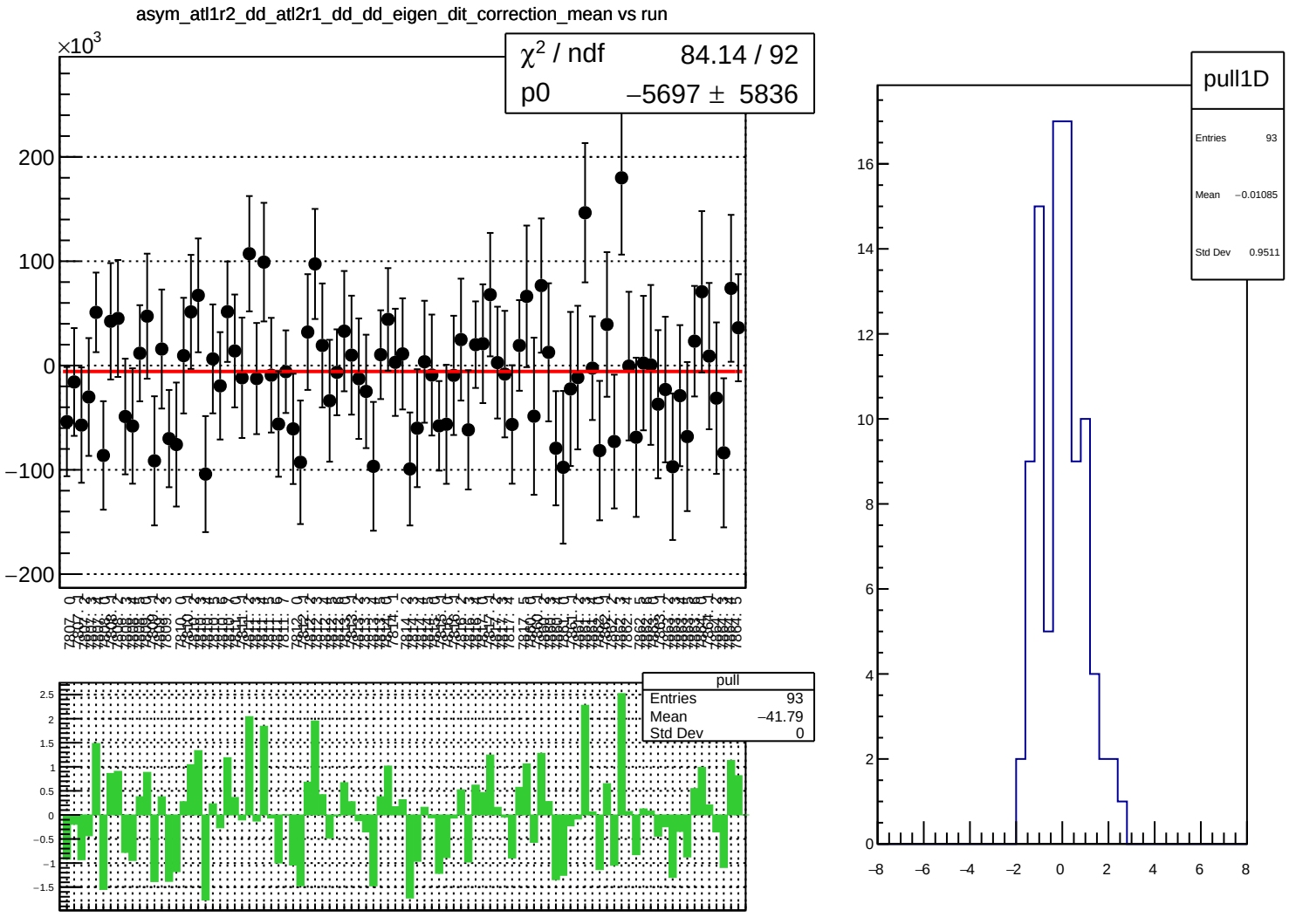

pull1D
Entries 93
Mean −0.01085
Std Dev 0.9511
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

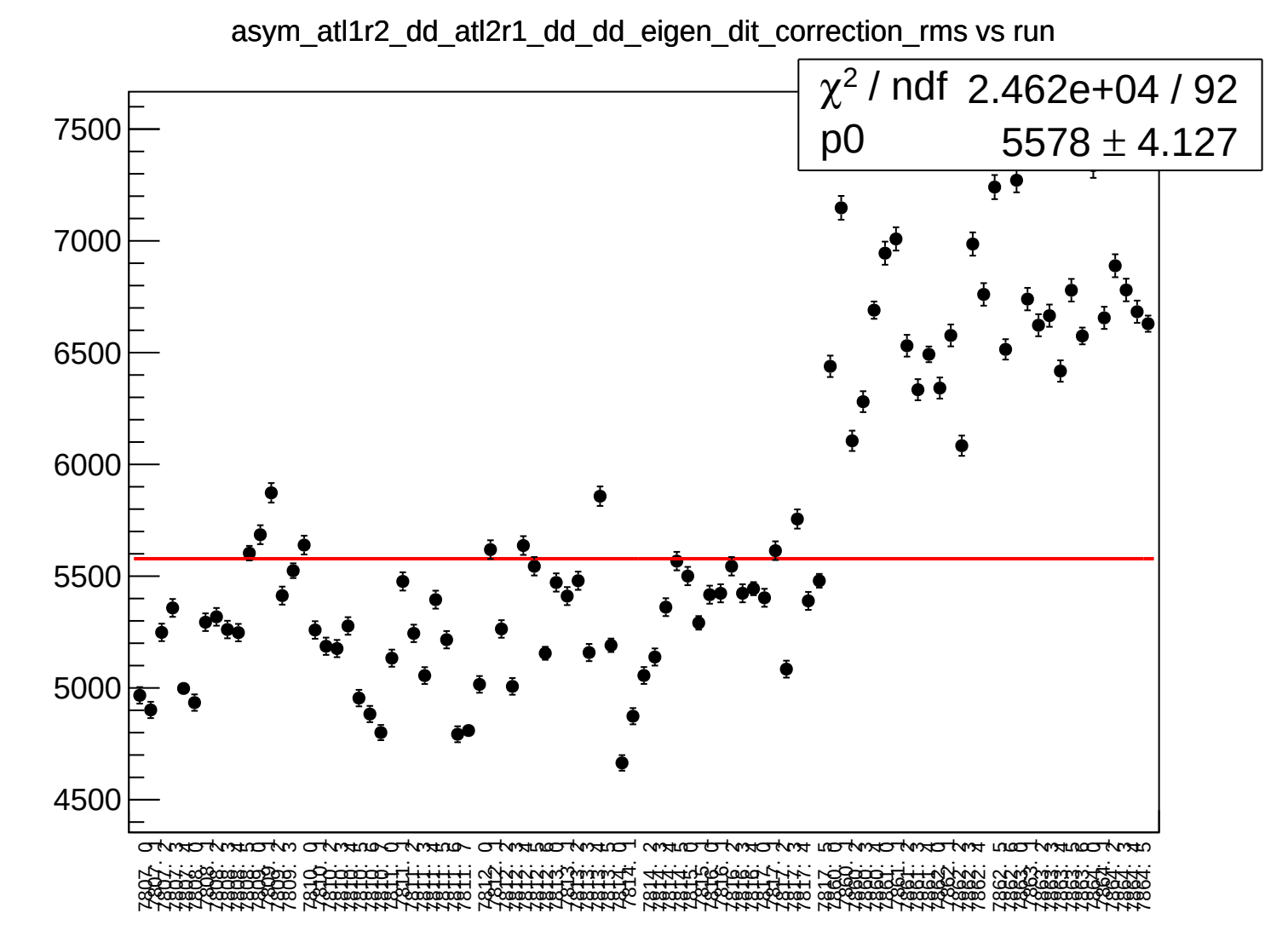

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_rms vs run
χ² / ndf 2.462e+04 / 92
p0 5578 ± 4.127
7500
7000
6500
6000
5500
5000
4500

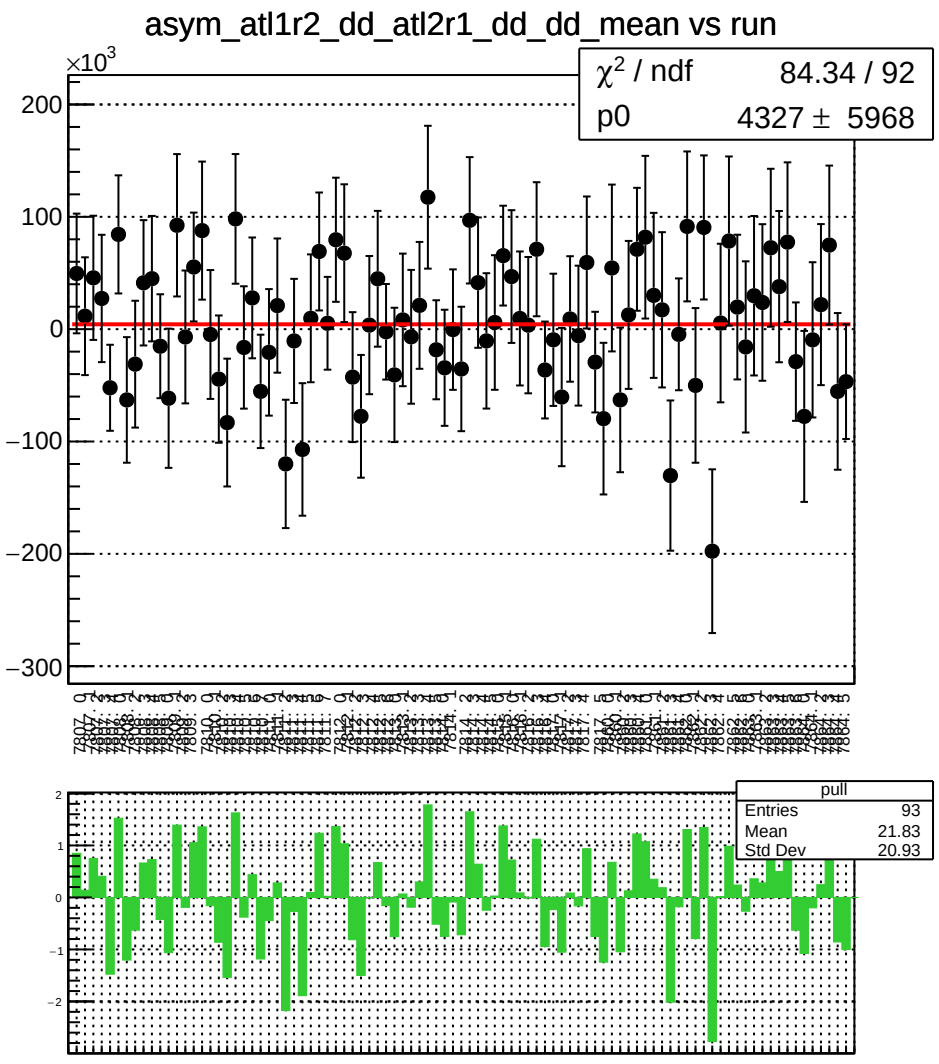

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 81.05 / 92
p0 −1374 ± 1361
pull
Entries 93
Mean 151.5
Std Dev 0

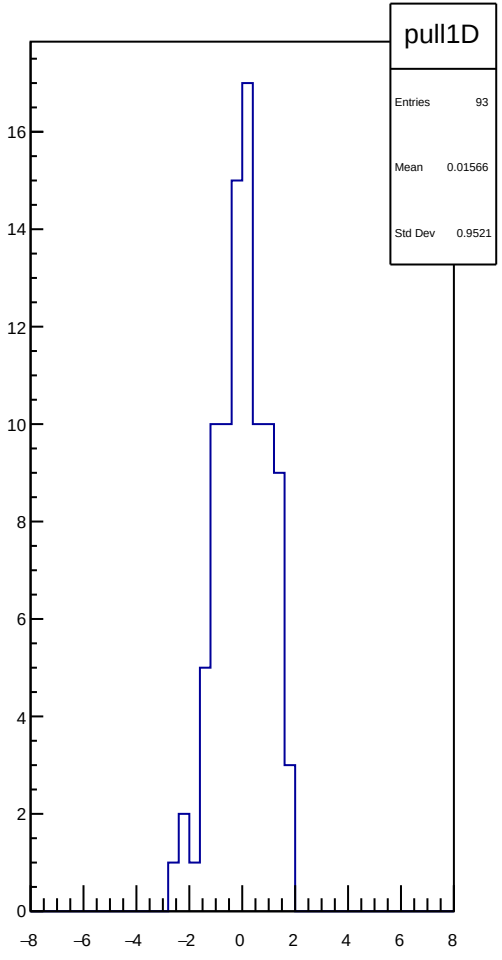

pull1D
Entries 93
Mean 0.0226
Std Dev 0.9333

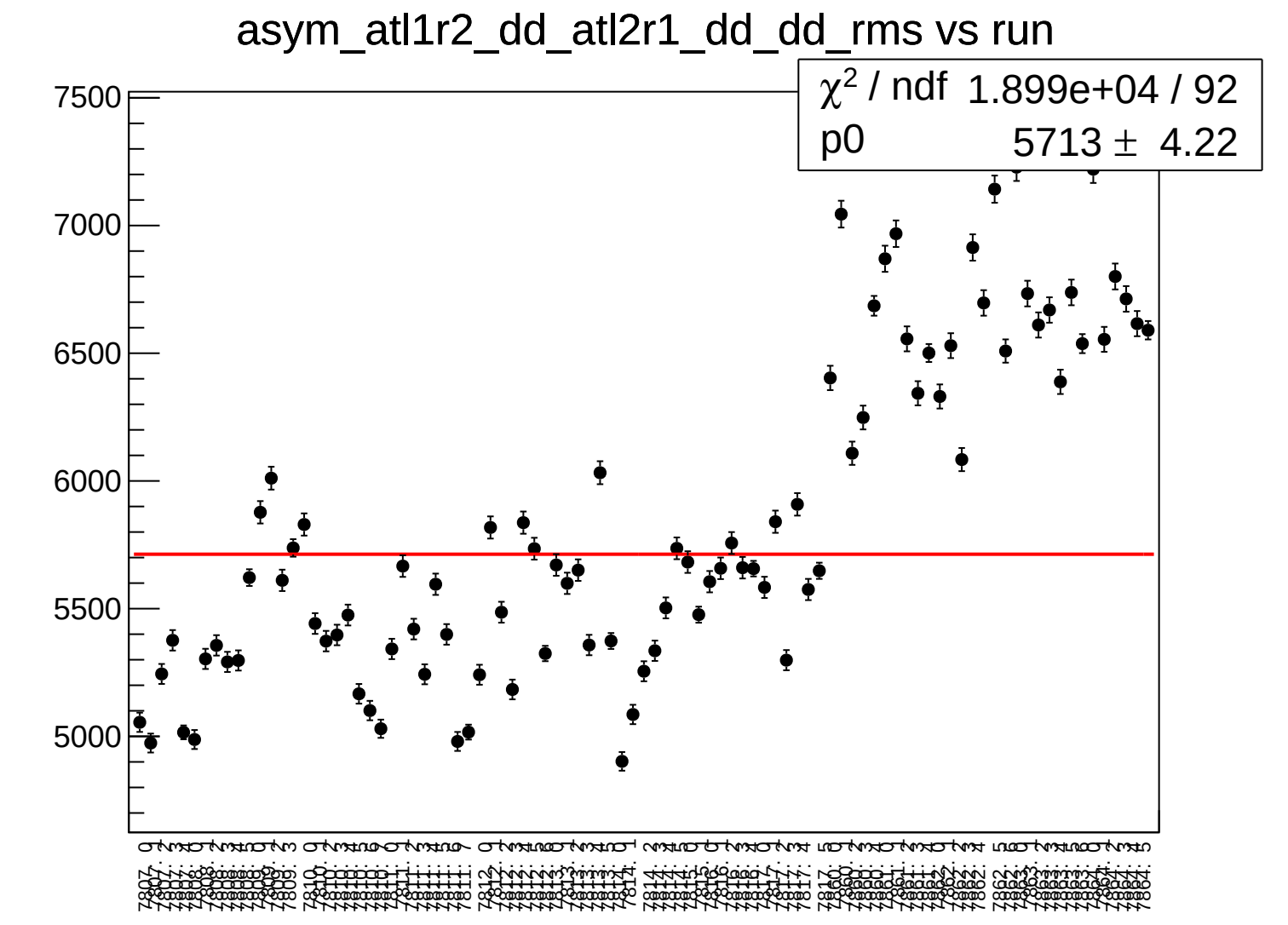

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 268.4 / 92
p0 1309 ± 0.9624
1360
1340
1320
1300
1280
1260

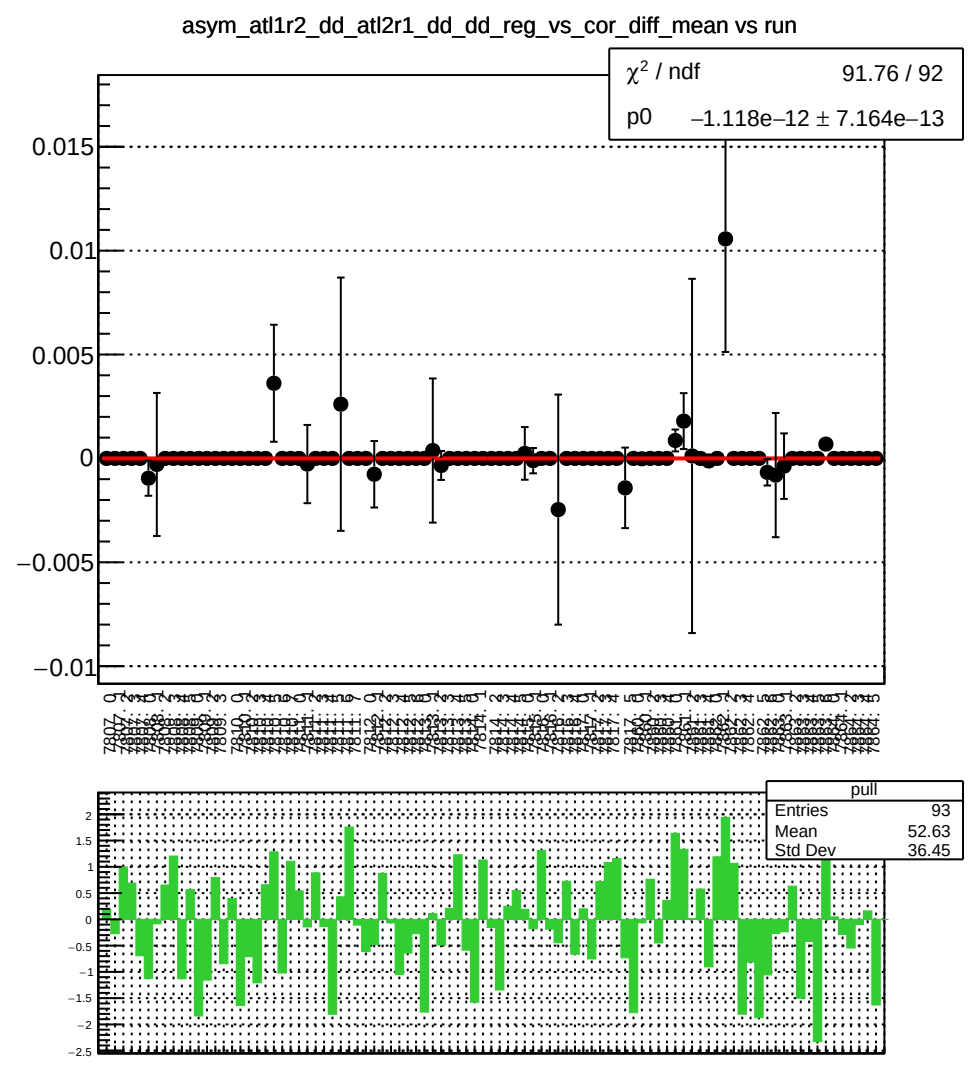

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 84.14 / 92
p0 −5697 ± 5836
200
100
0
−100
−200
pull
Entries 93
Mean −41.79
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 93
Mean −0.01085
Std Dev 0.9511
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

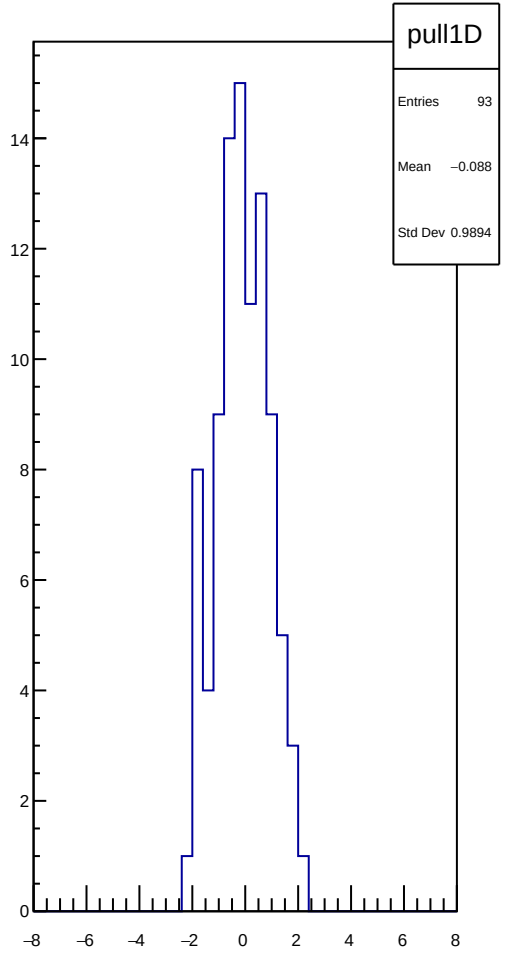

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.462e+04 / 92
p0 5578 ± 4.127
7500
7000
6500
6000
5500
5000
4500

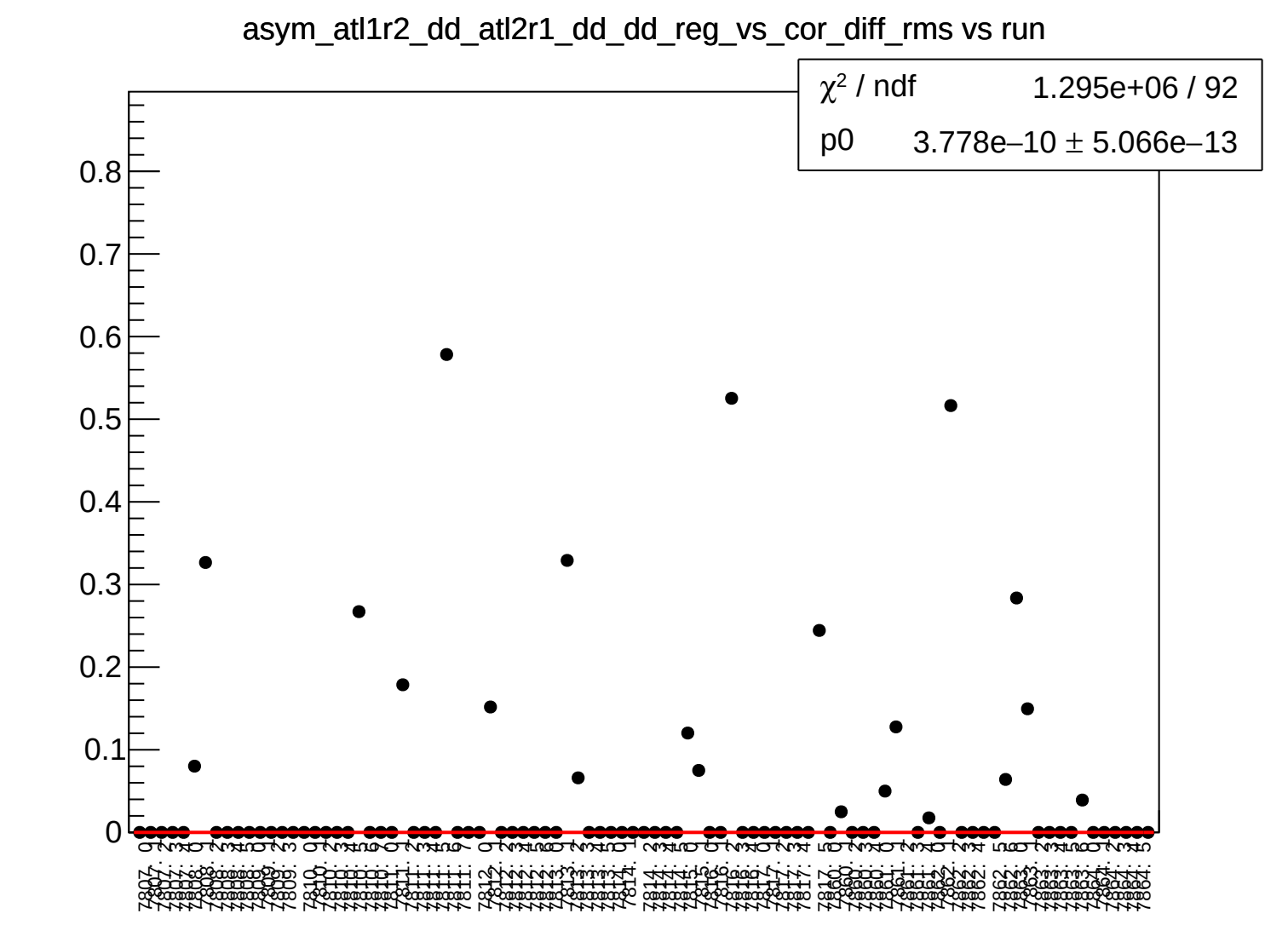

asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
×10^3
χ² / ndf 84.34 / 92
p0 4327 ± 5968
200
100
0
−100
−200
−300
pull
Entries 93
Mean 21.83
Std Dev 20.93
2
1
0
−1
−2

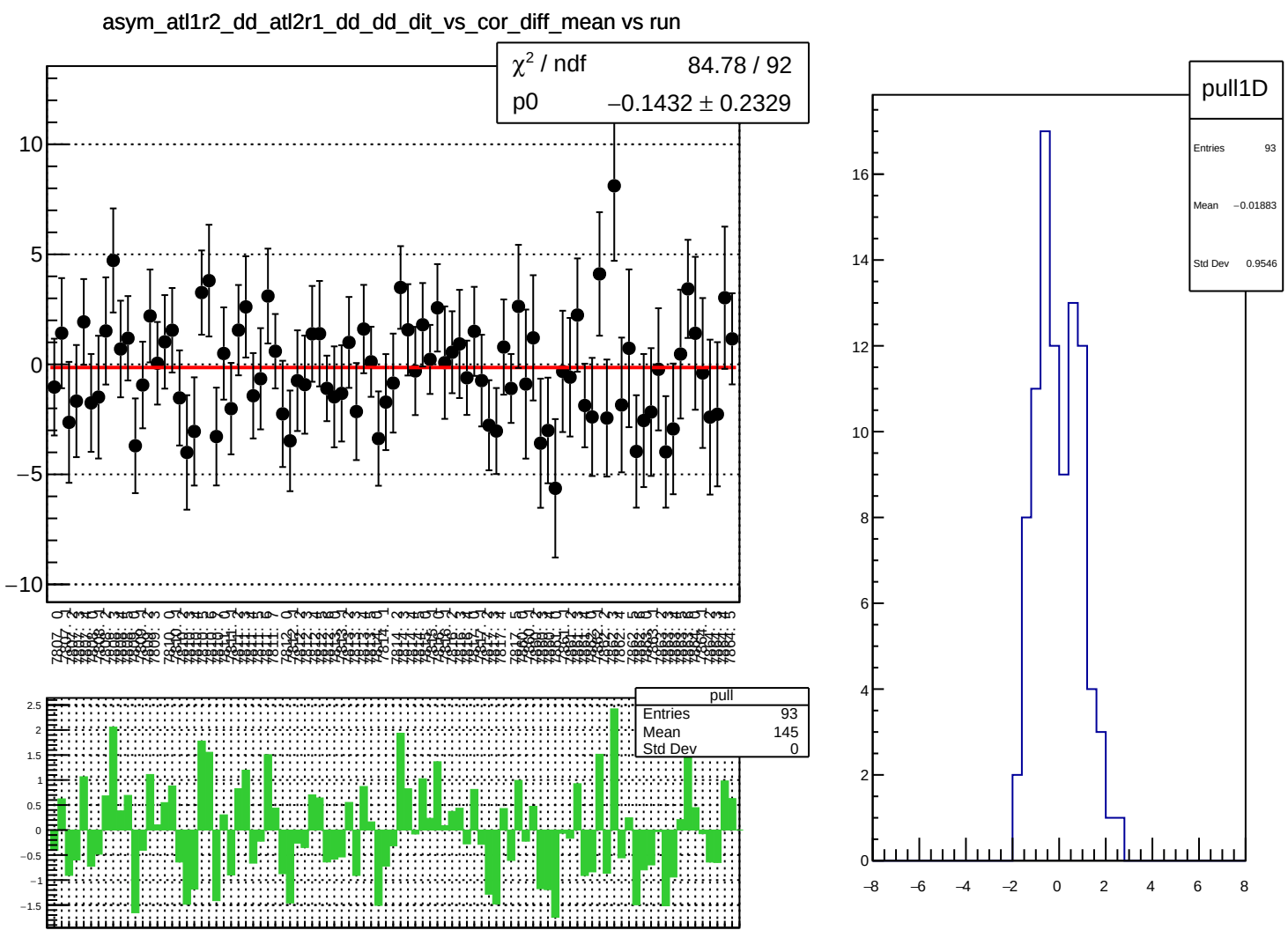

pull1D
Entries 93
Mean 0.01566
Std Dev 0.9521
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

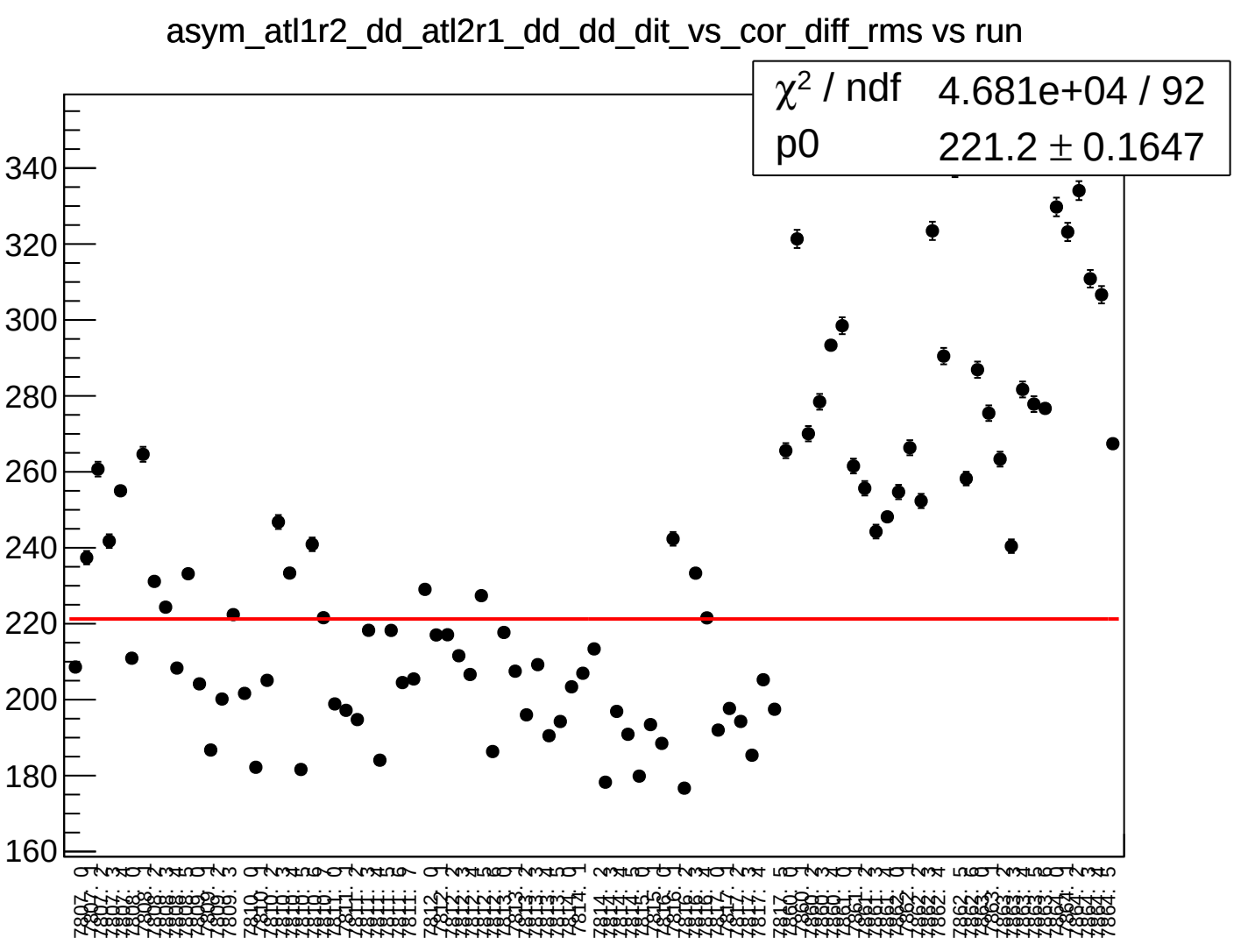

asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 1.899e+04 / 92
p0 5713 ± 4.22
7500
7000
6500
6000
5500
5000

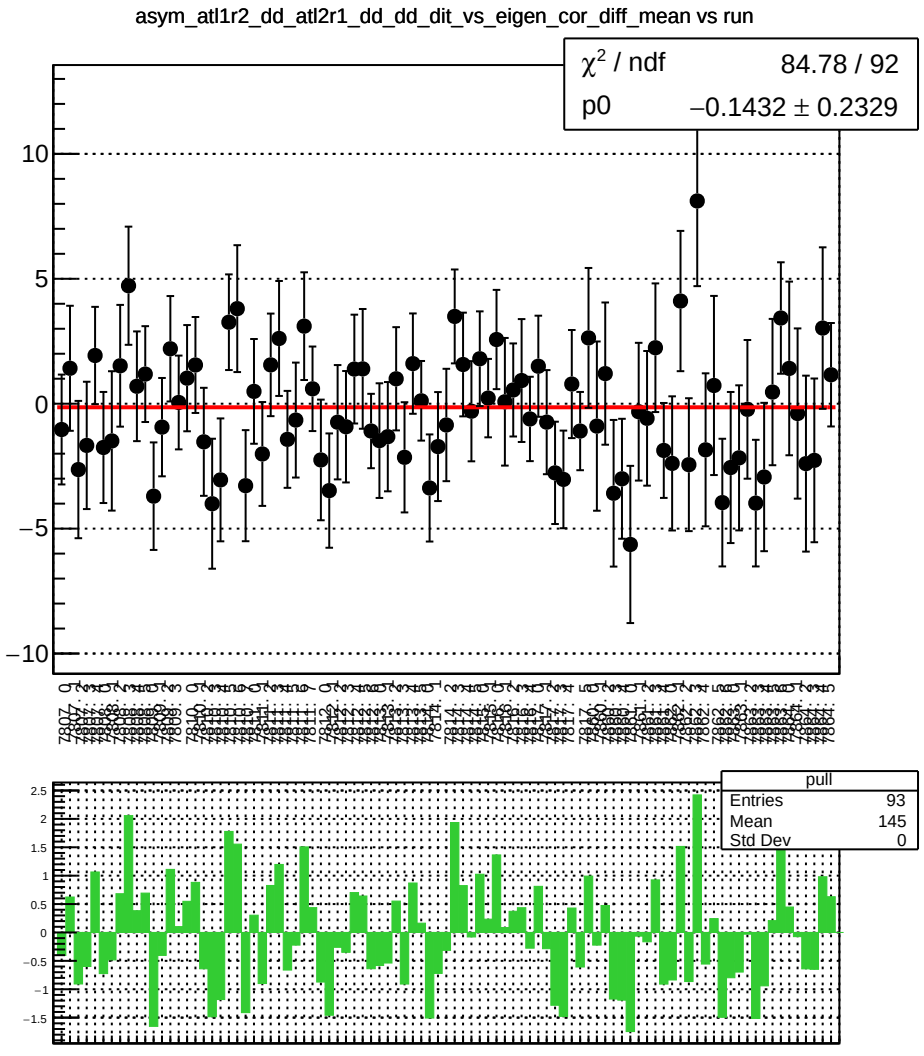

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 91.76 / 92
p0 −1.118e−12 ± 7.164e−13
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 93
Mean 52.63
Std Dev 36.45
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

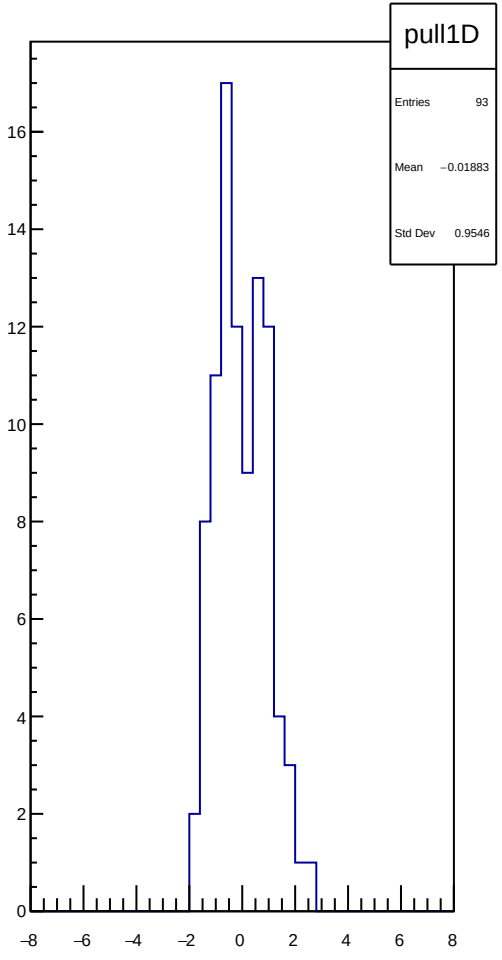

pull1D
Entries 93
Mean −0.088
Std Dev 0.9894
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

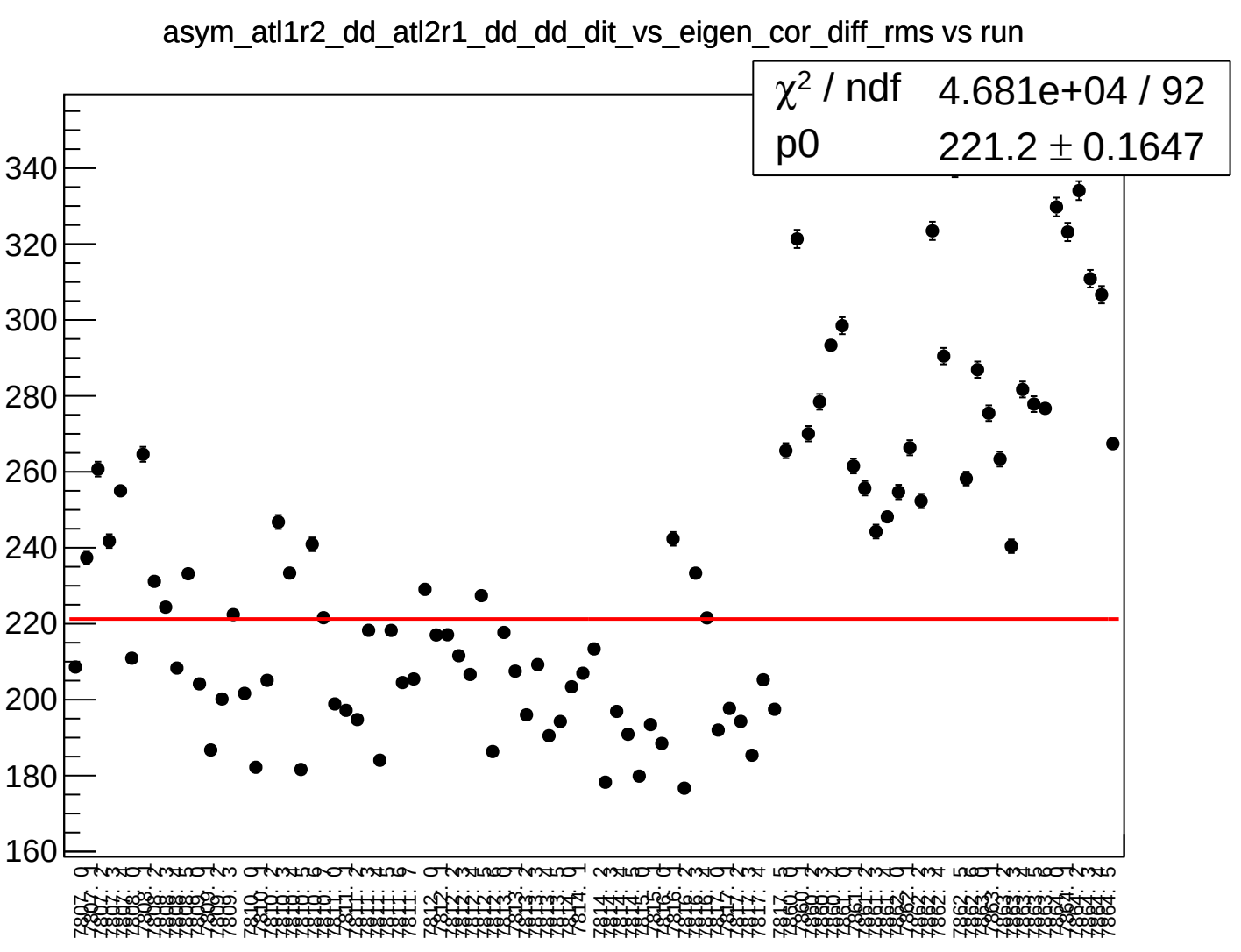

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.295e+06 / 92
p0 3.778e−10 ± 5.066e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

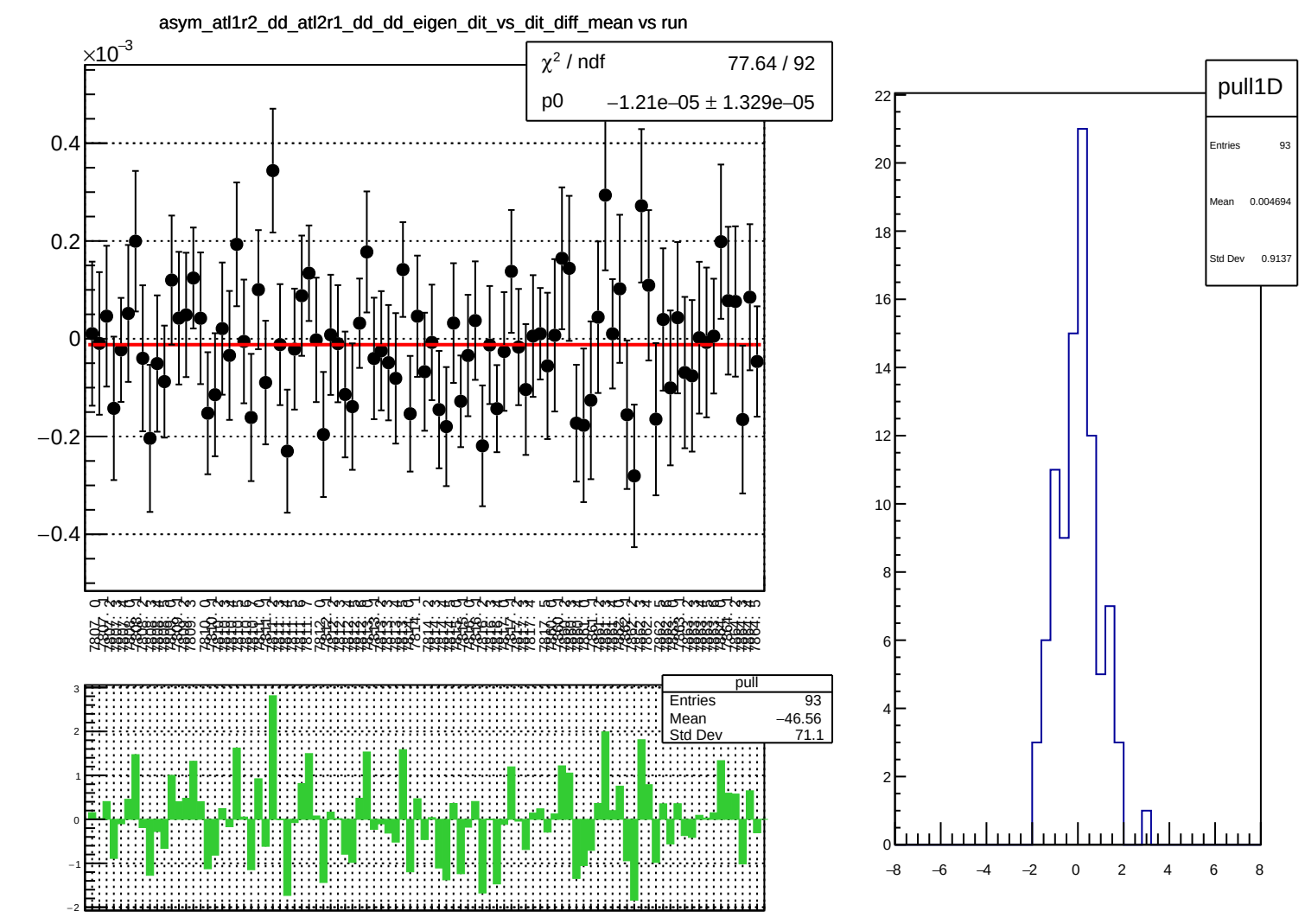

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 84.78 / 92
p0 −0.1432 ± 0.2329
pull
Entries 93
Mean 145
Std Dev 0
pull1D
Entries 93
Mean −0.01883
Std Dev 0.9546

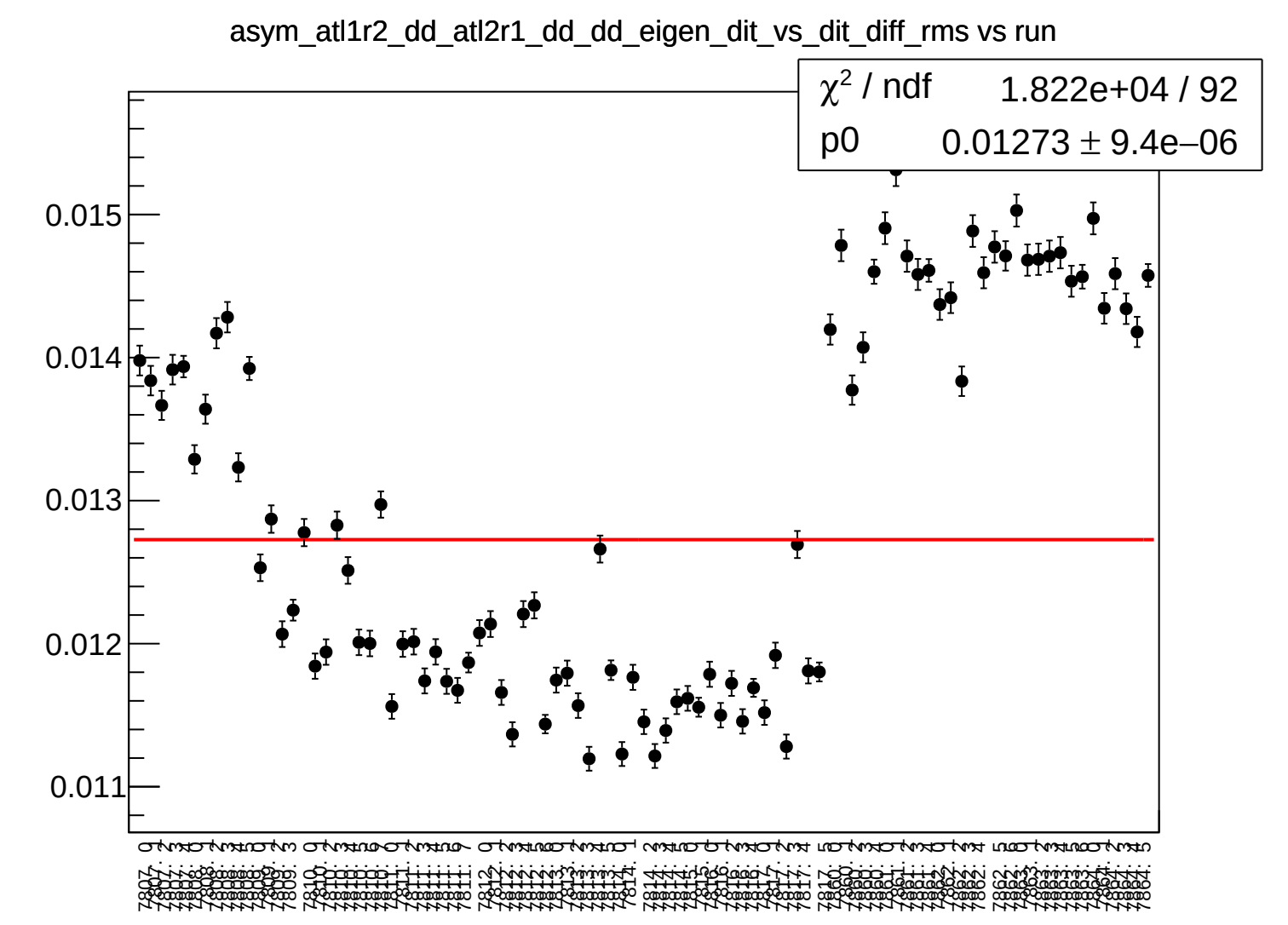

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.681e+04 / 92
p0 221.2 ± 0.1647
340
320
300
280
260
240
220
200
180
160

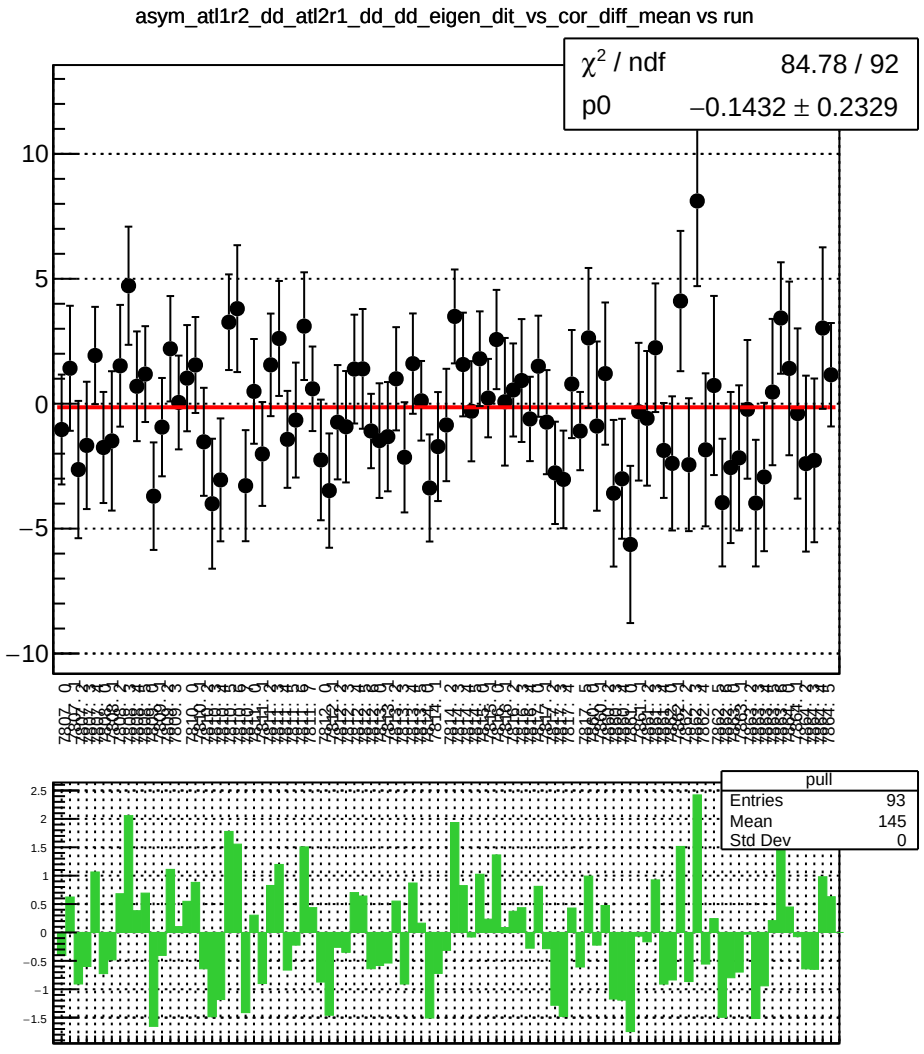

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.78 / 92
p0 −0.1432 ± 0.2329
pull
Entries 93
Mean 145
Std Dev 0

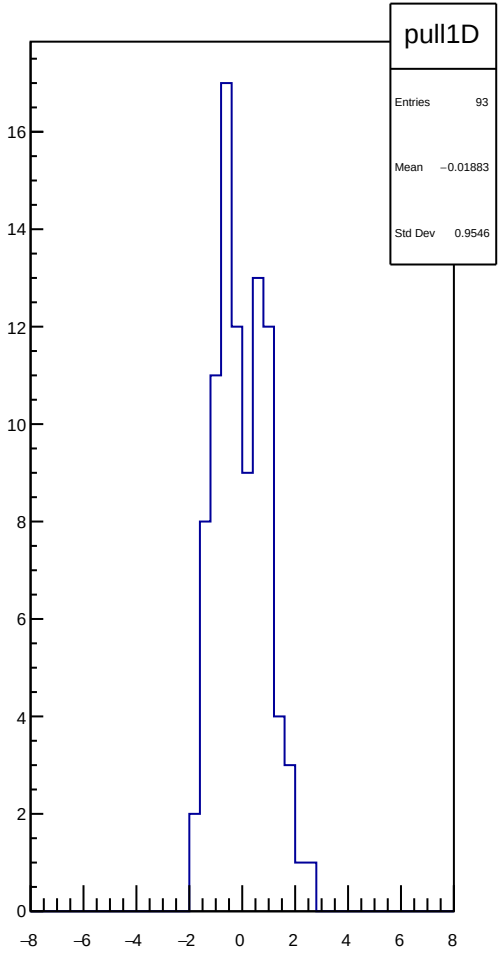

pull1D
Entries 93
Mean −0.01883
Std Dev 0.9546

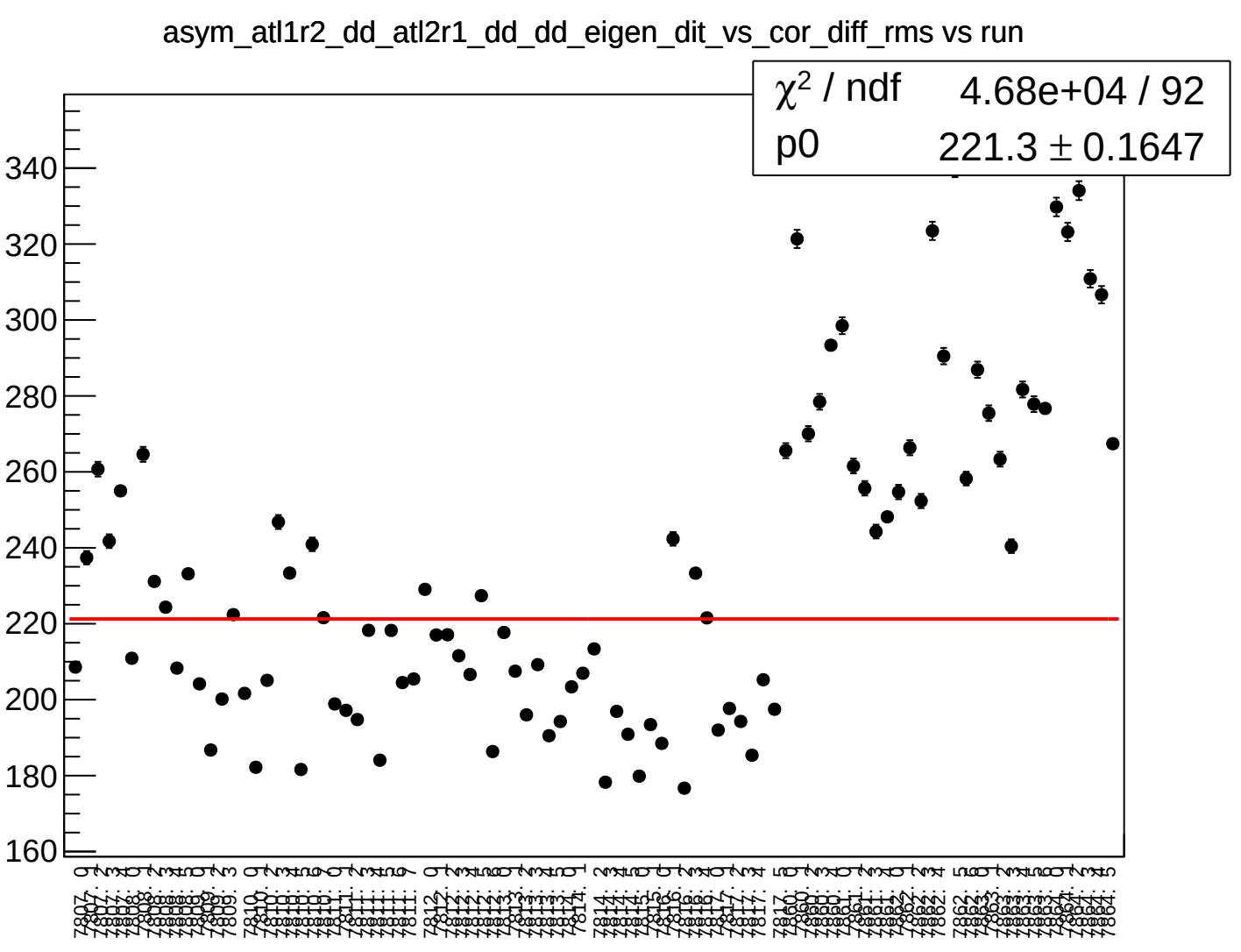

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.681e+04 / 92
p0 221.2 ± 0.1647
340
320
300
280
260
240
220
200
180
160

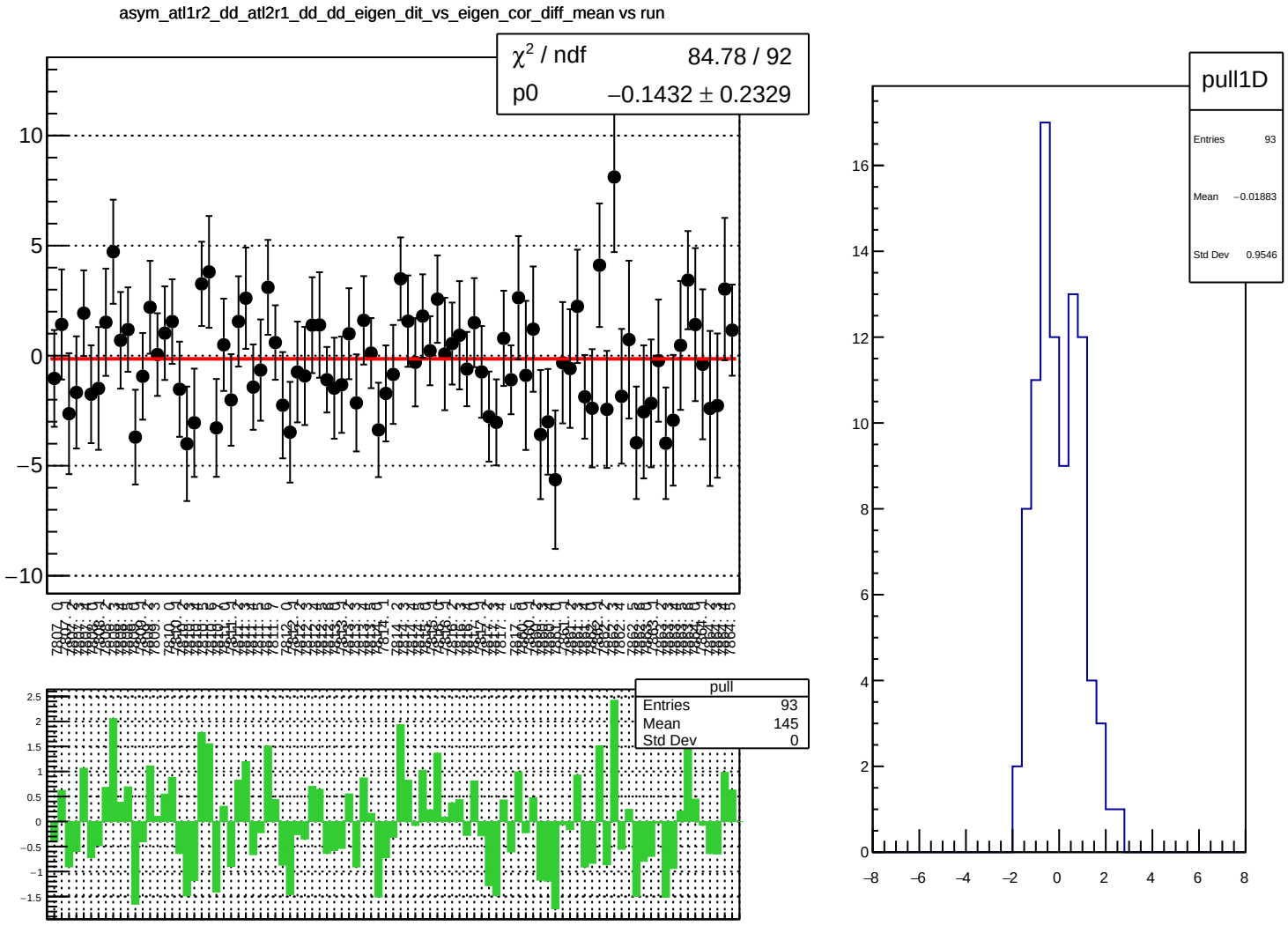

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 77.64 / 92
p0 −1.21e−05 ± 1.329e−05
0.4
0.2
0
−0.2
−0.4
pull
Entries 93
Mean −46.56
Std Dev 71.1
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.004694
Std Dev 0.9137
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

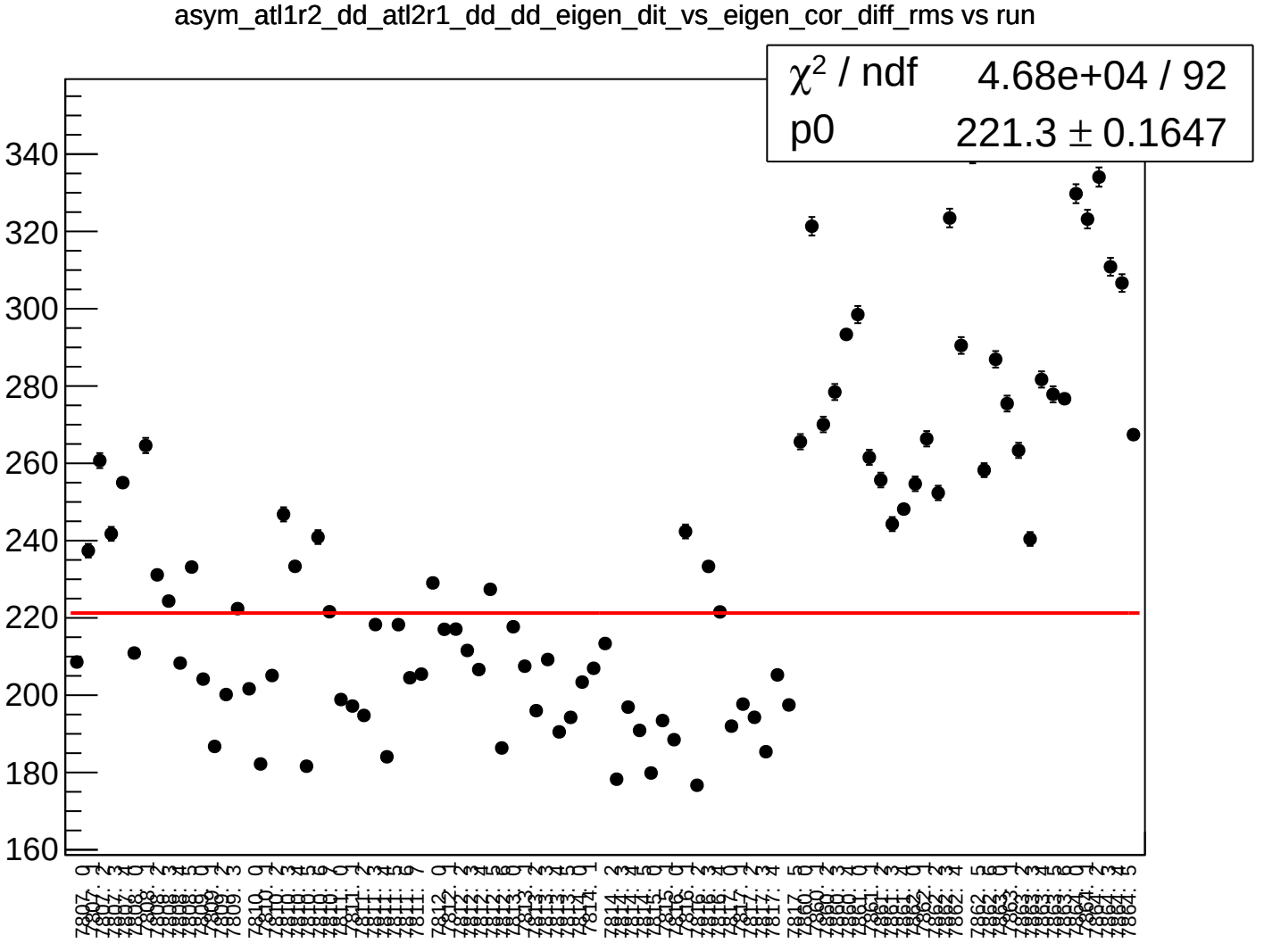

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.822e+04 / 92
p0 0.01273 ± 9.4e−06
0.015
0.014
0.013
0.012
0.011

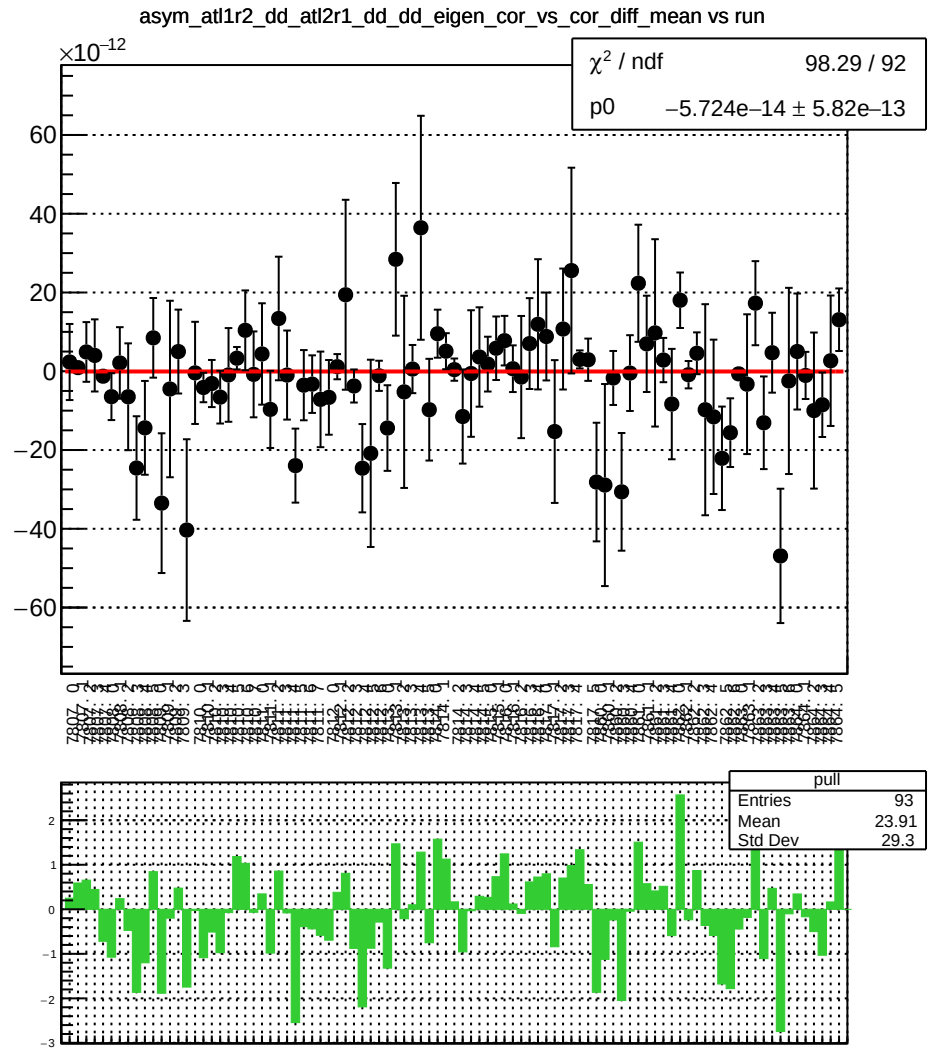

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.78 / 92
p0 −0.1432 ± 0.2329
pull
Entries 93
Mean 145
Std Dev 0

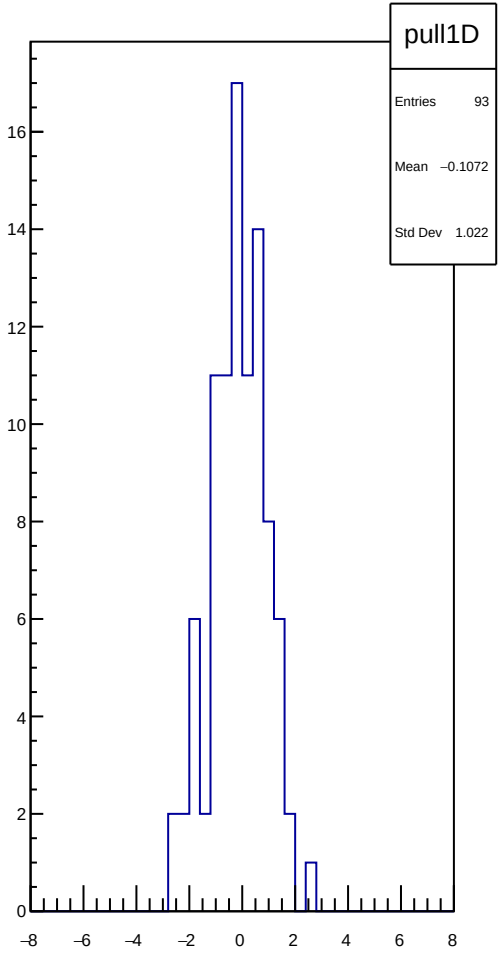

pull1D
Entries 93
Mean −0.01883
Std Dev 0.9546

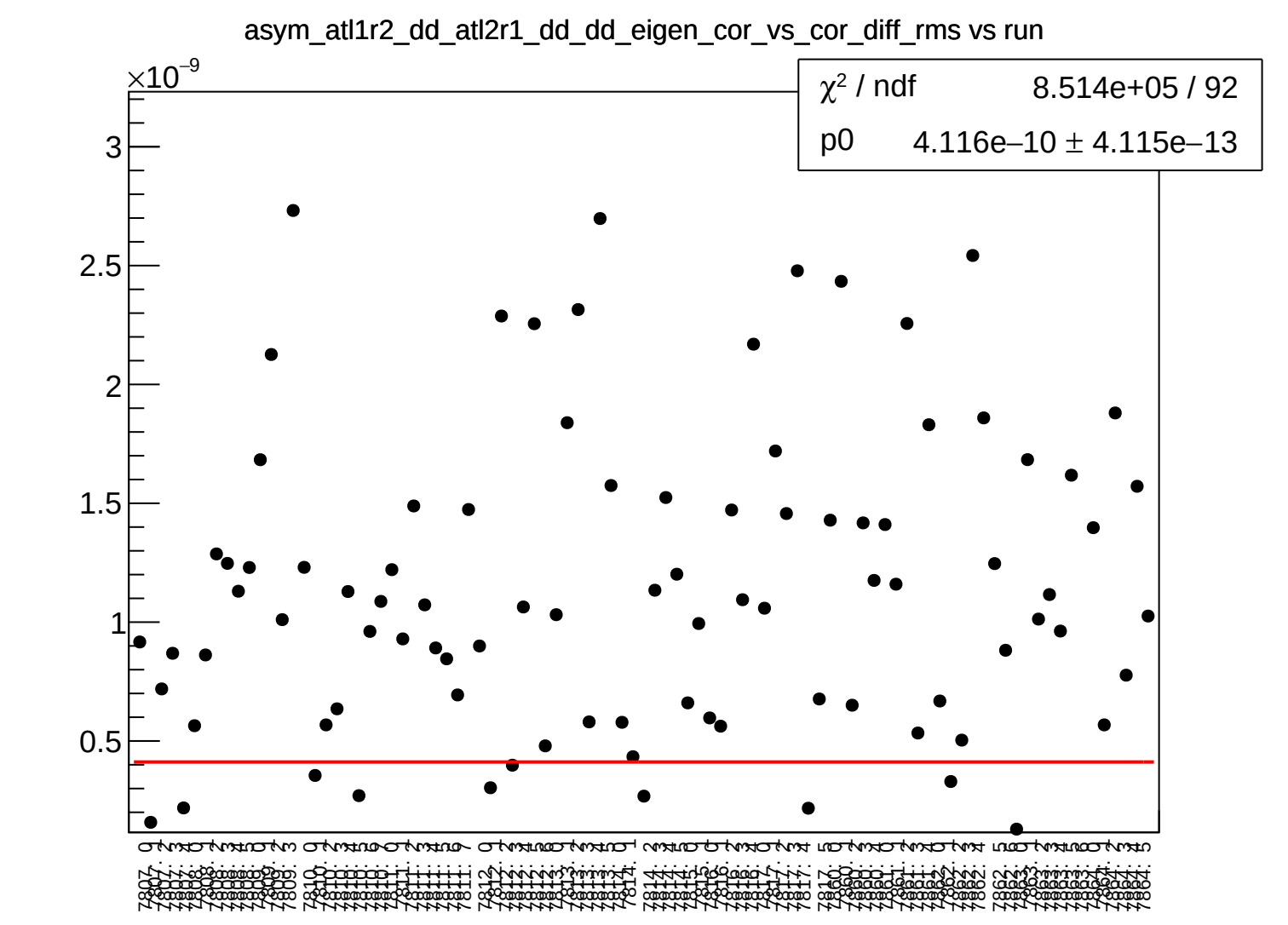

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.68e+04 / 92
p0 221.3 ± 0.1647
340
320
300
280
260
240
220
200
180
160

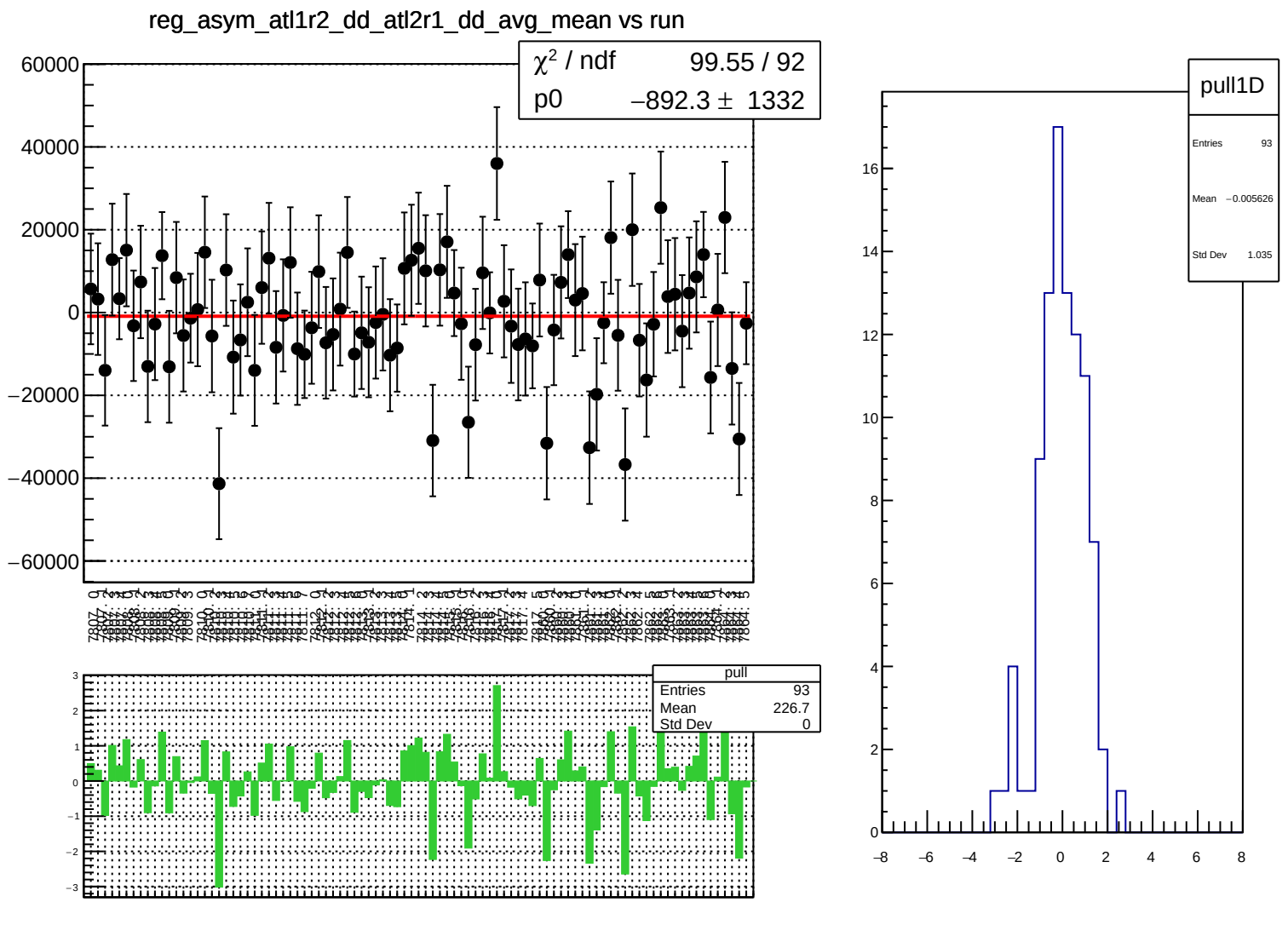

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.78 / 92
p0 −0.1432 ± 0.2329
pull
Entries 93
Mean 145
Std Dev 0
pull1D
Entries 93
Mean −0.01883
Std Dev 0.9546

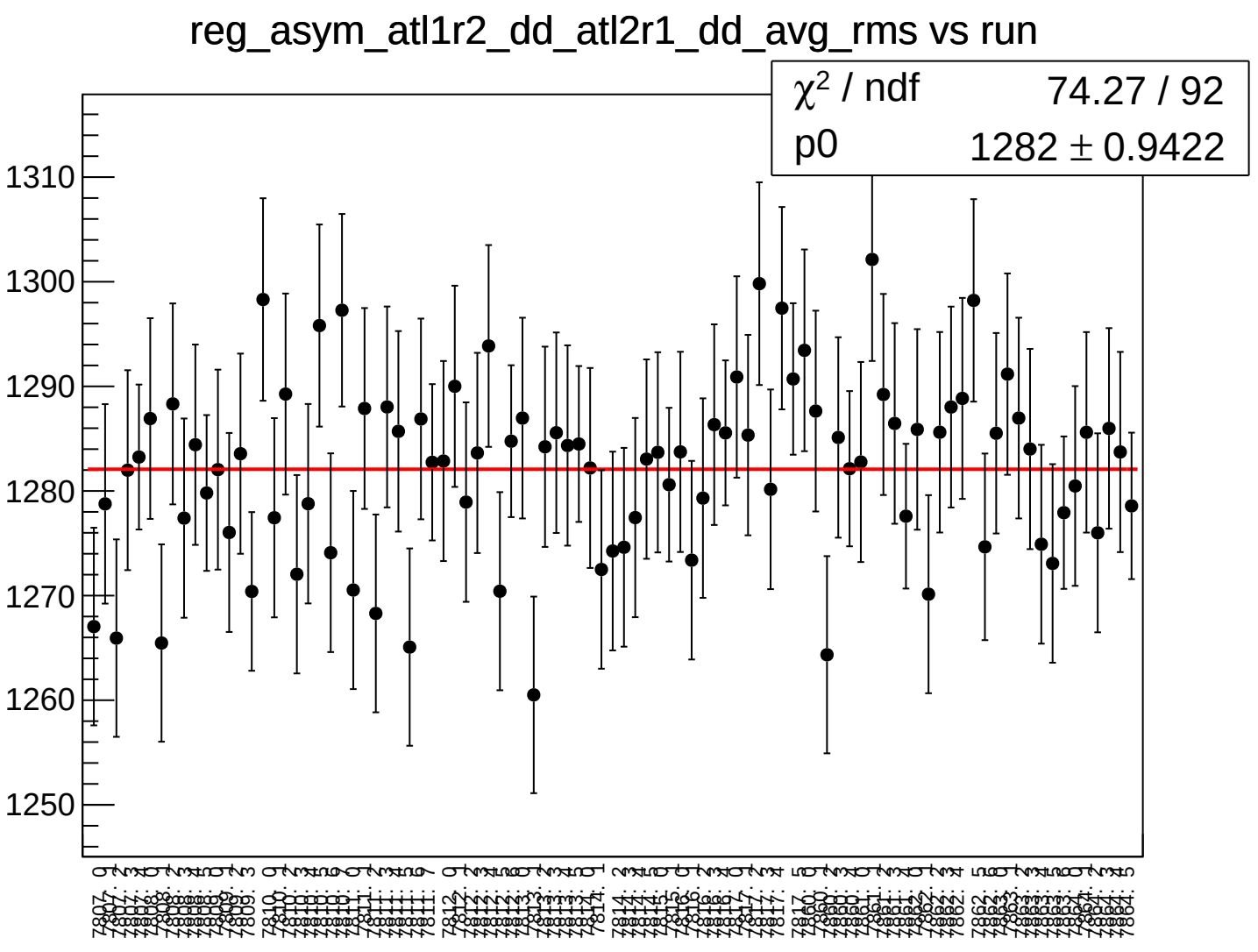

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.68e+04 / 92
p0 221.3 ± 0.1647
340
320
300
280
260
240
220
200
180
160

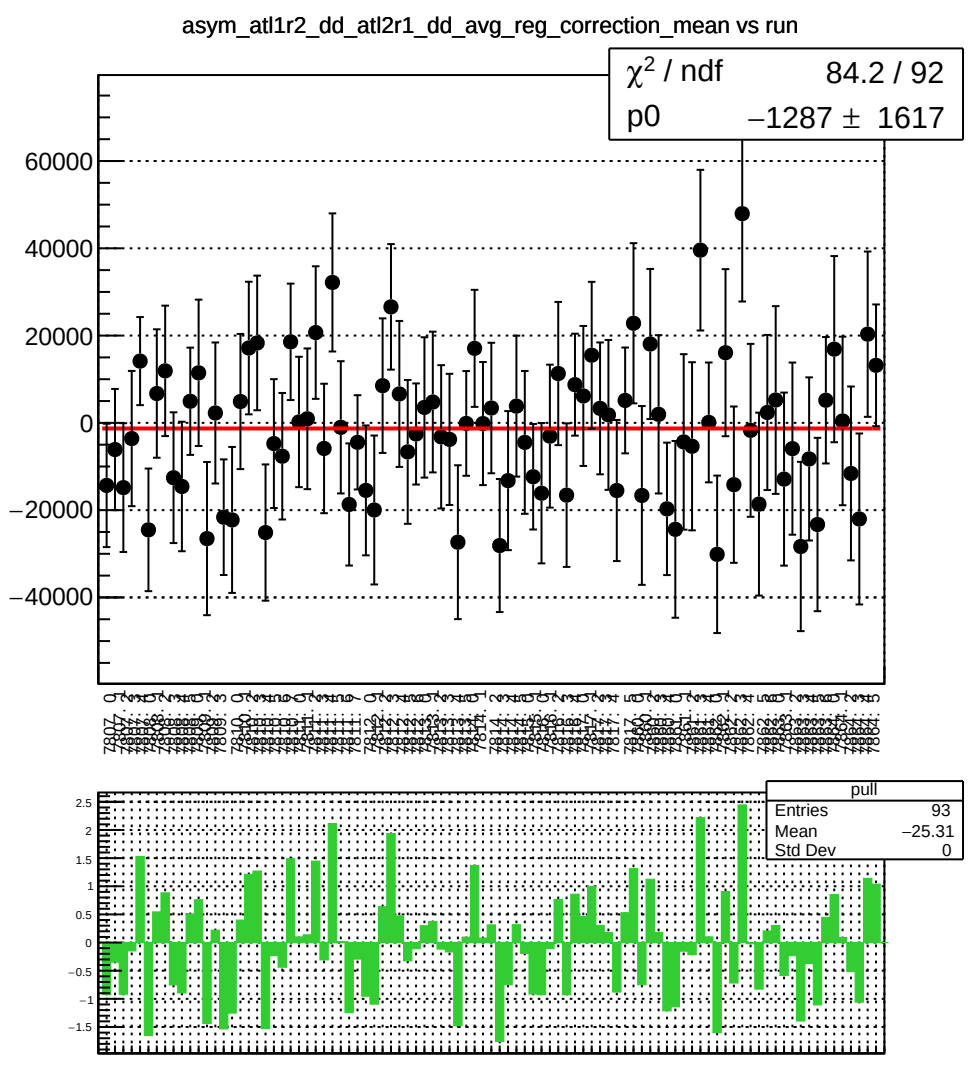

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.29 / 92
p0 −5.724e−14 ± 5.82e−13
pull
Entries 93
Mean 23.91
Std Dev 29.3

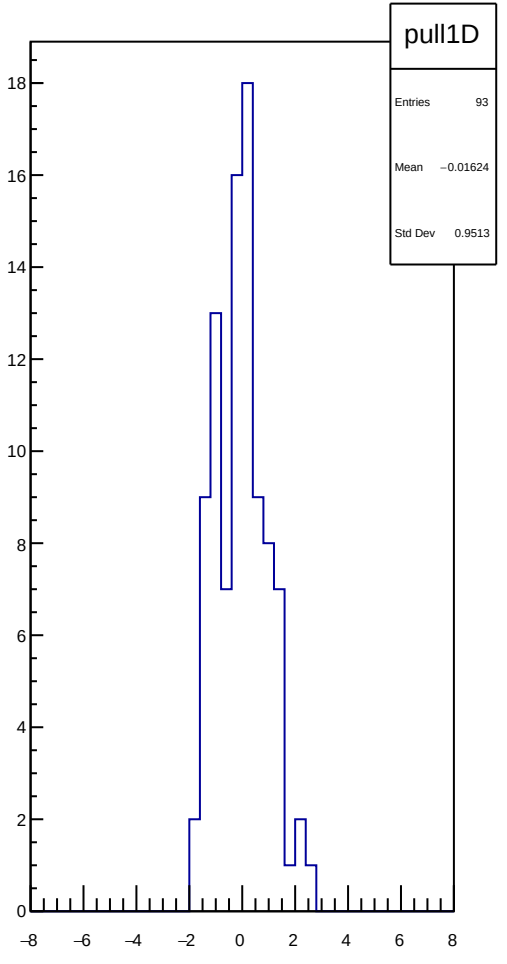

pull1D
Entries 93
Mean −0.1072
Std Dev 1.022

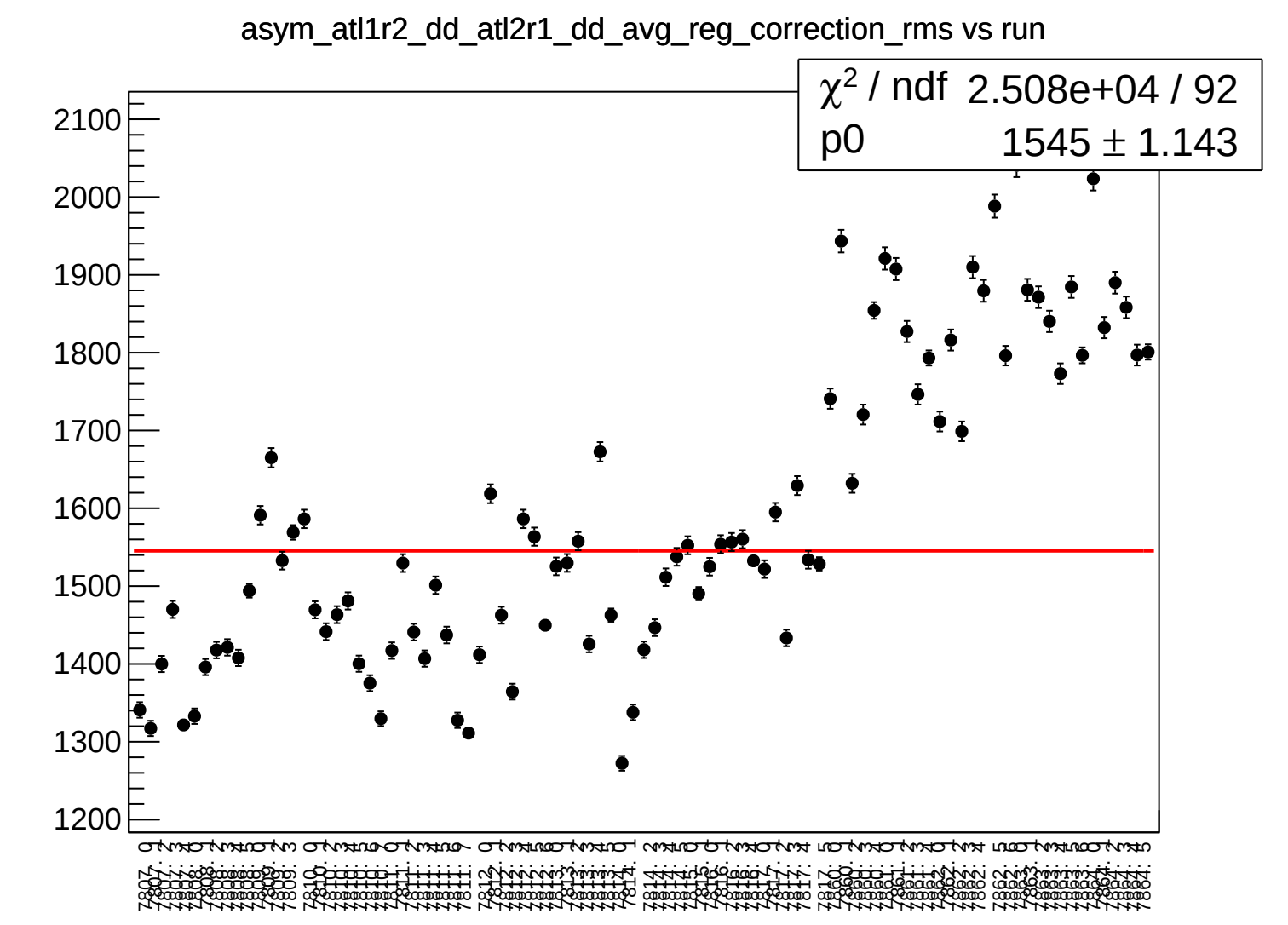

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.514e+05 / 92
p0 4.116e−10 ± 4.115e−13
3
2.5
2
1.5
1
0.5

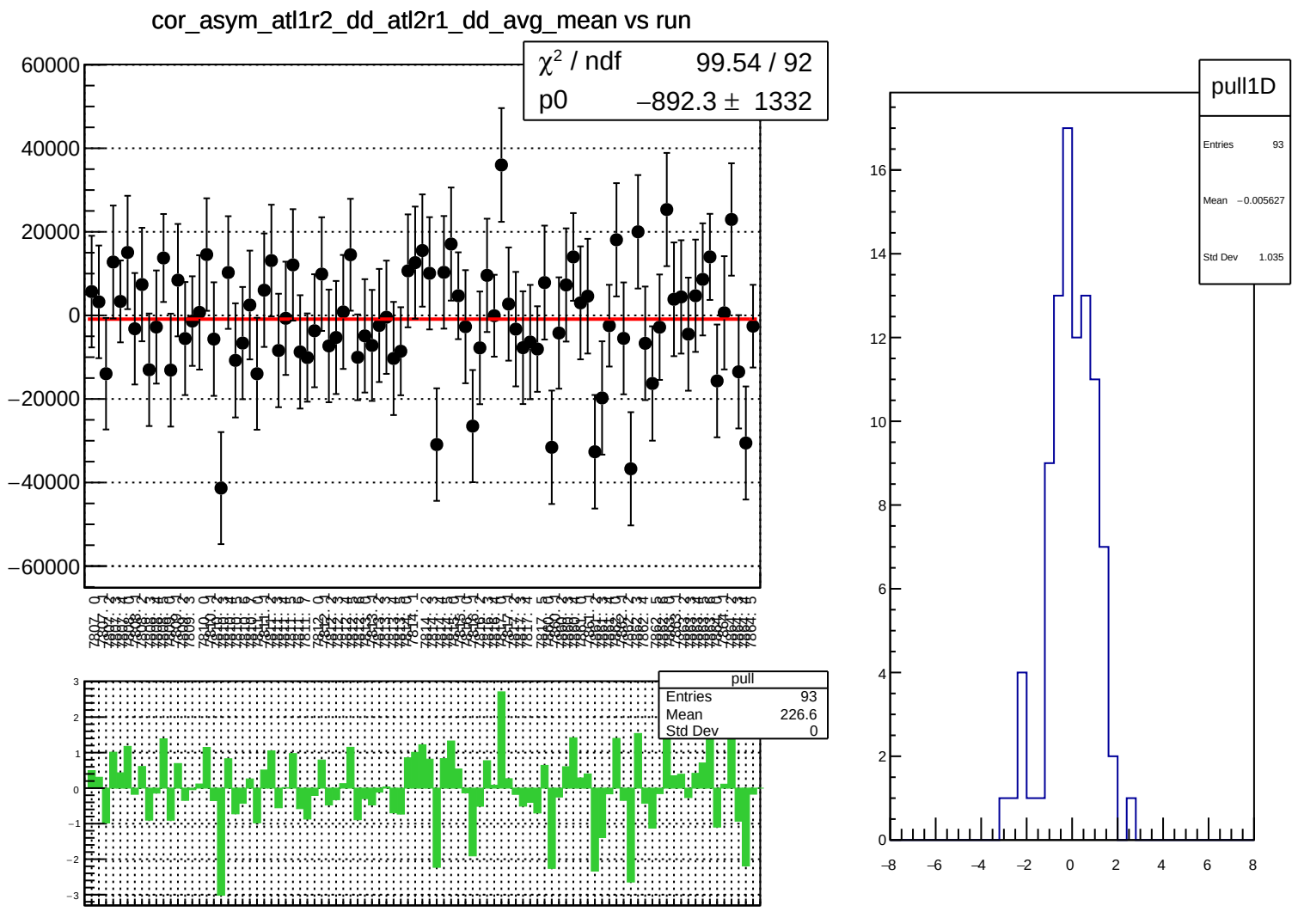

reg_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 99.55 / 92
p0 −892.3 ± 1332
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 226.7
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.005626
Std Dev 1.035
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

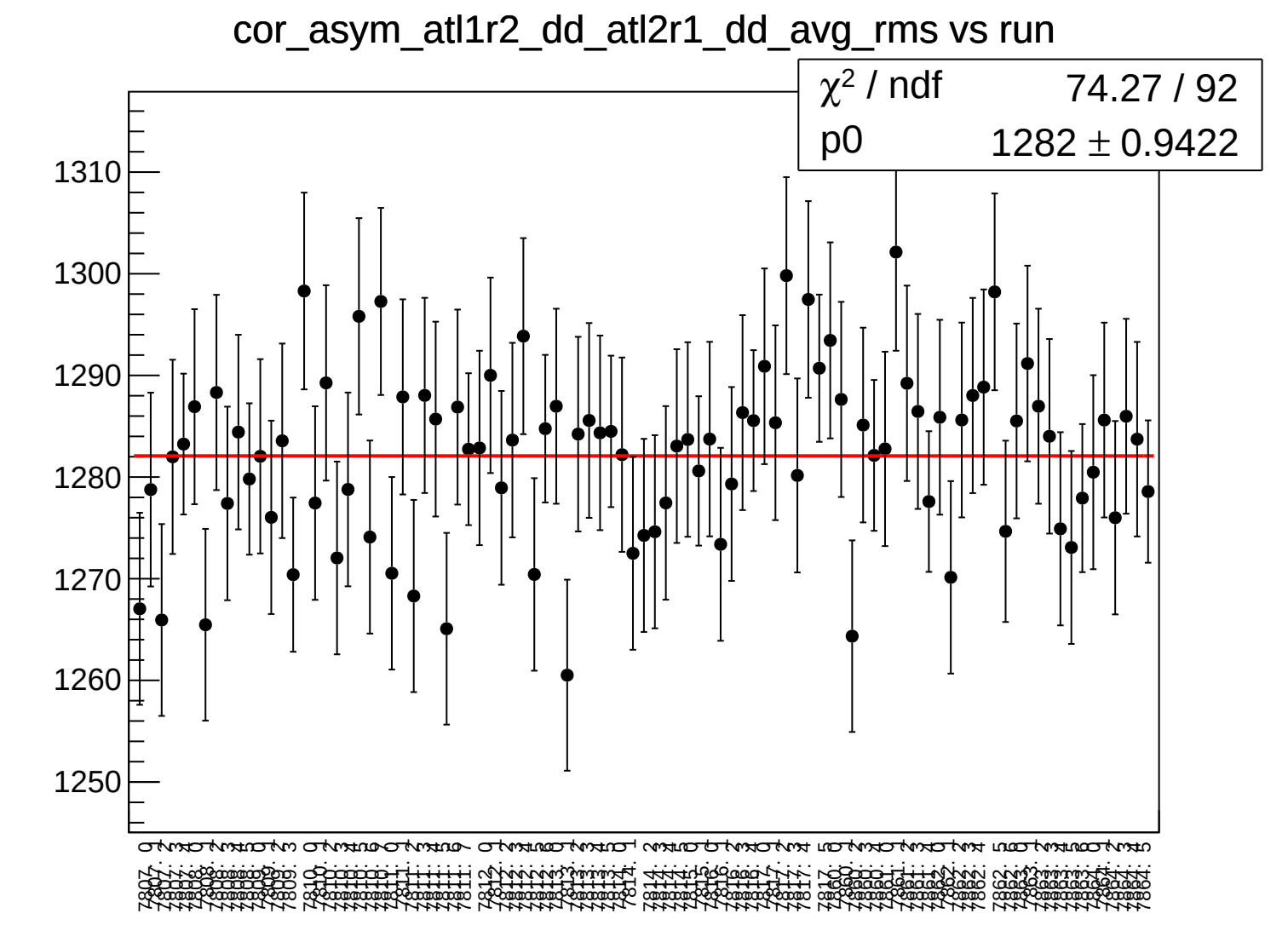

reg_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ^2 / ndf 74.27 / 92
p0 1282 ± 0.9422
1310
1300
1290
1280
1270
1260
1250

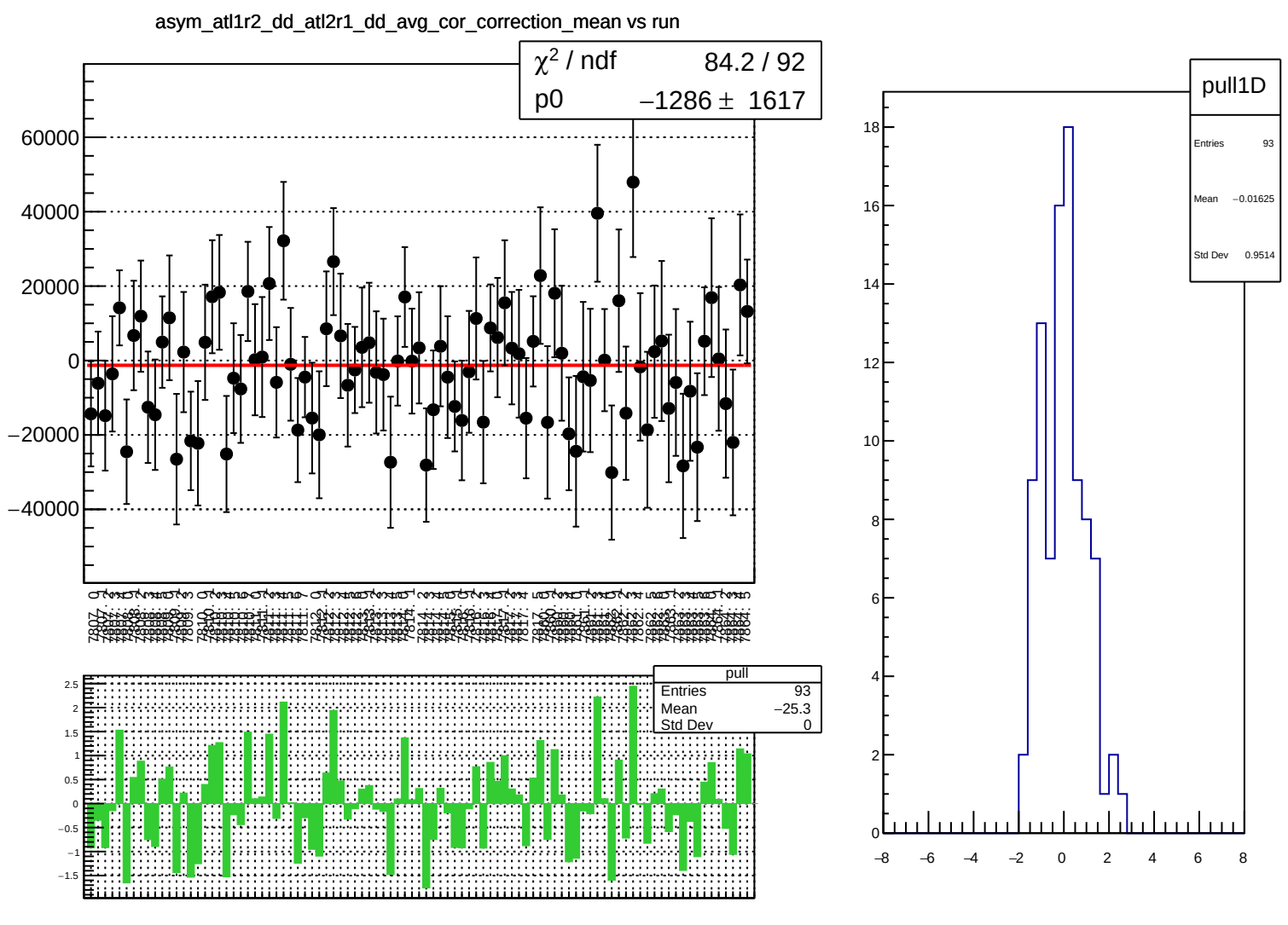

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_mean vs run
χ² / ndf 84.2 / 92
p0 −1287 ± 1617
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −25.31
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

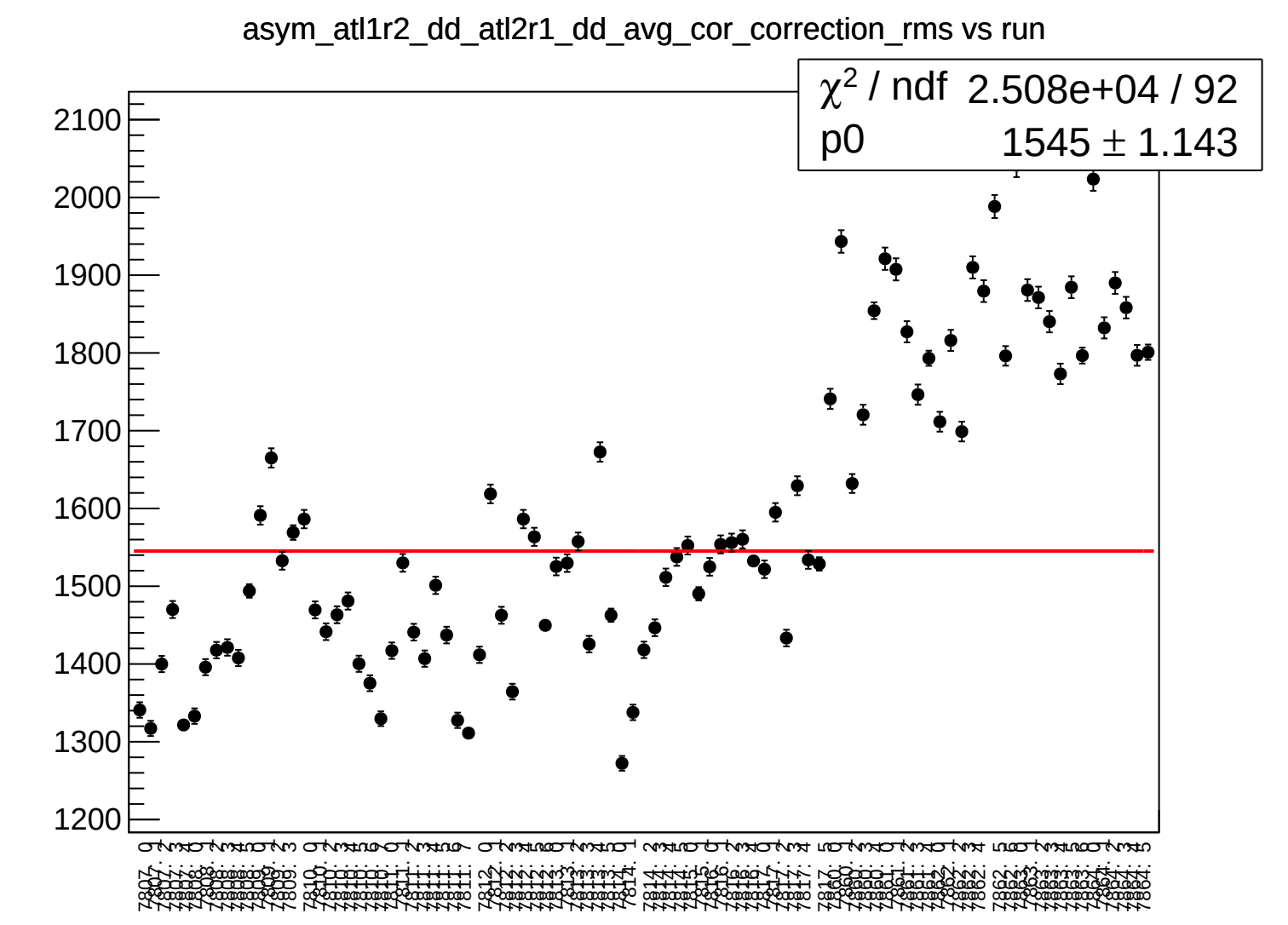

pull1D
Entries 93
Mean −0.01624
Std Dev 0.9513
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

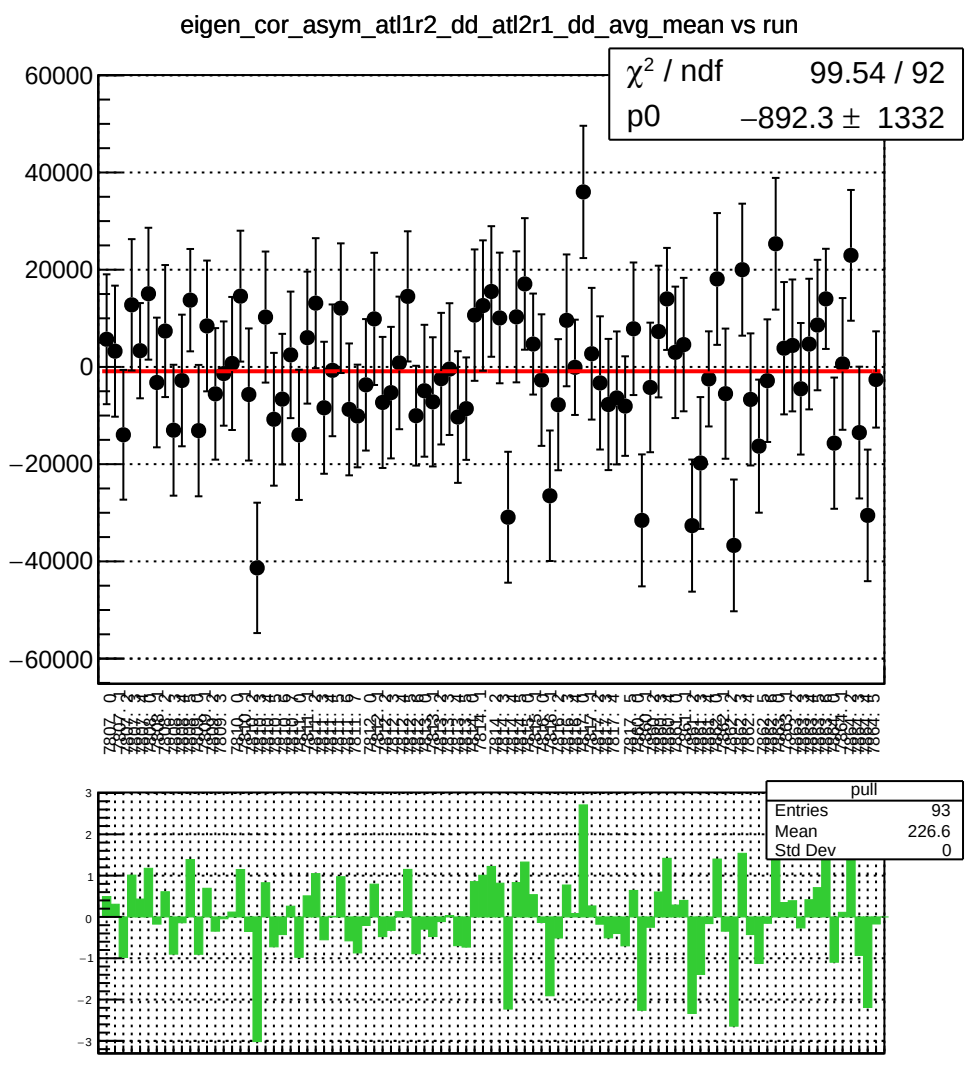

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_rms vs run
χ² / ndf 2.508e+04 / 92
p0 1545 ± 1.143
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200

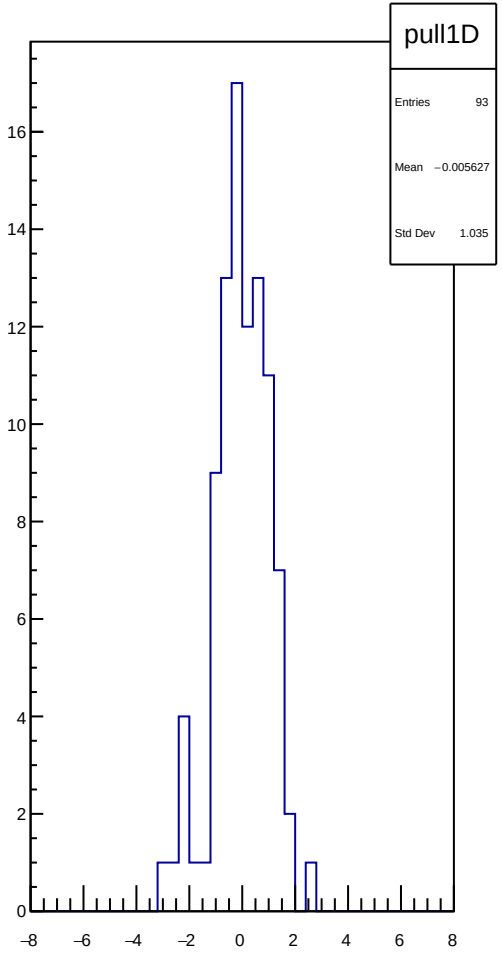

cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 99.54 / 92
p0 −892.3 ± 1332
pull
Entries 93
Mean 226.6
Std Dev 0
pull1D
Entries 93
Mean −0.005627
Std Dev 1.035

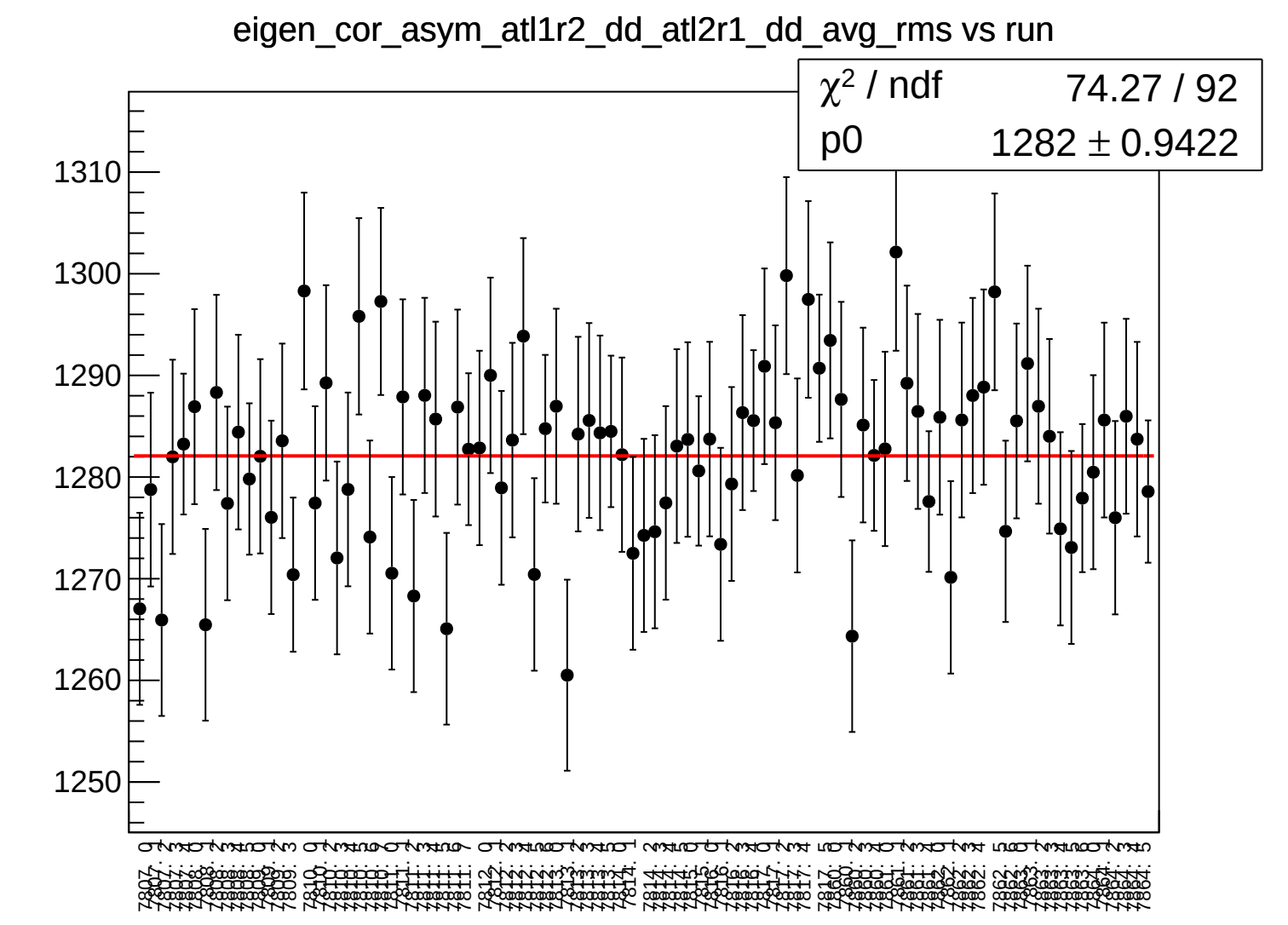

cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ^2 / ndf 74.27 / 92
p0 1282 ± 0.9422
1310
1300
1290
1280
1270
1260
1250

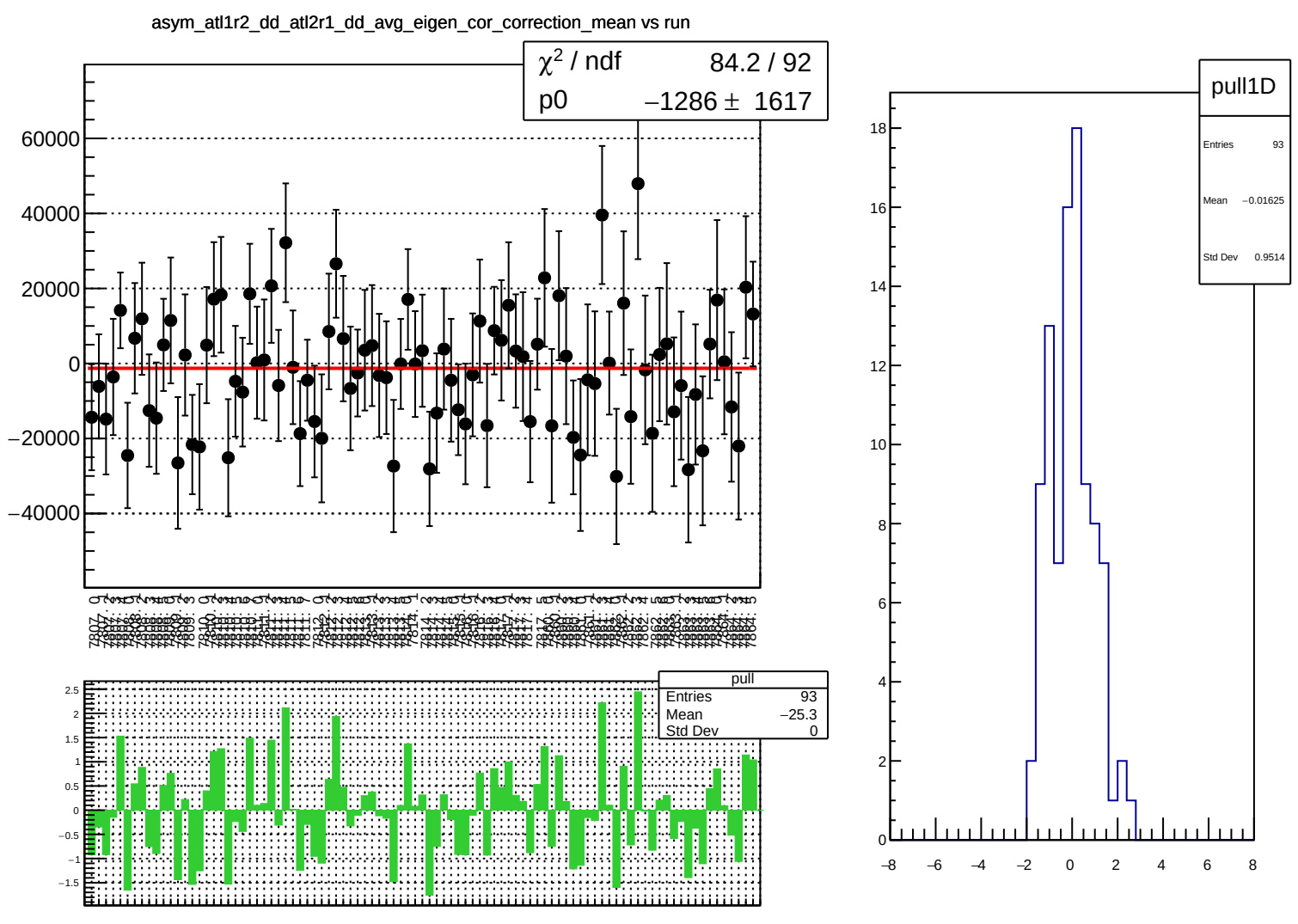

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_mean vs run
χ² / ndf 84.2 / 92
p0 −1286 ± 1617
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −25.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 93
Mean −0.01625
Std Dev 0.9514
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

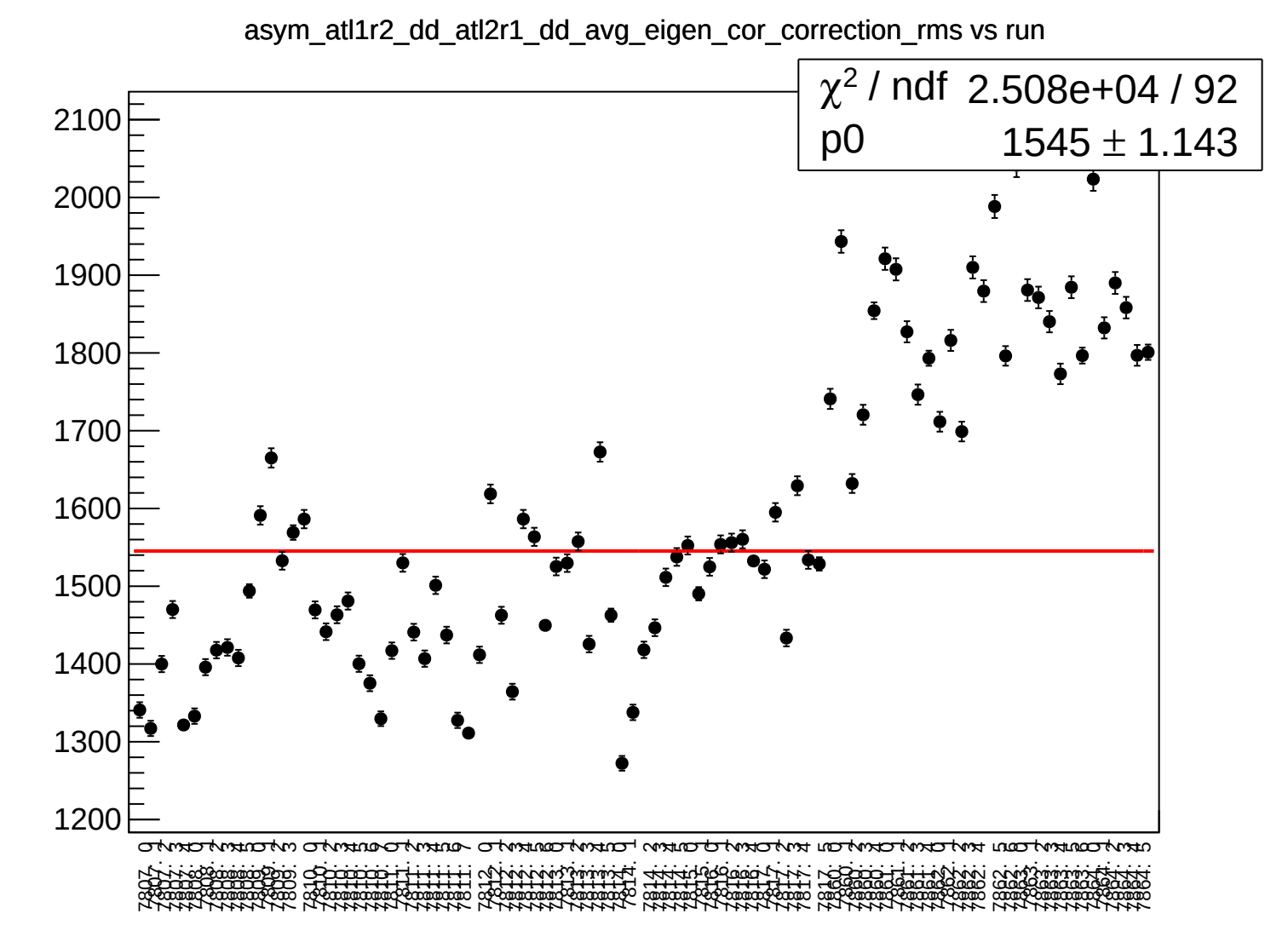

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_rms vs run
χ² / ndf 2.508e+04 / 92
p0 1545 ± 1.143
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200

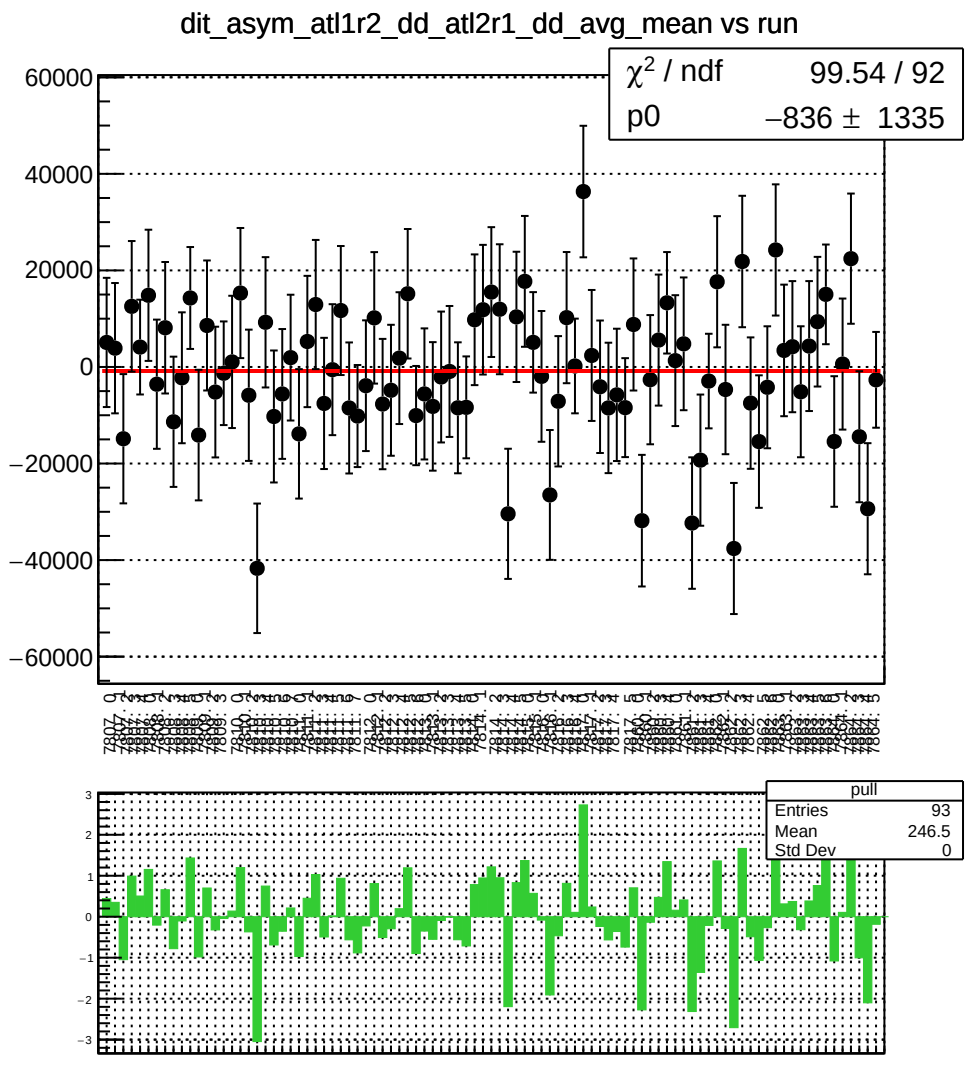

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 99.54 / 92
p0 −892.3 ± 1332
pull
Entries 93
Mean 226.6
Std Dev 0

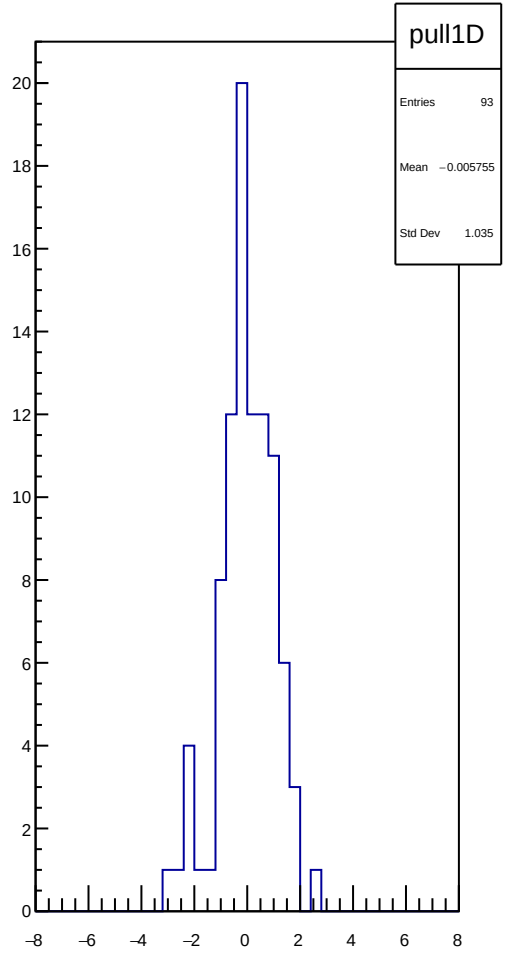

pull1D
Entries 93
Mean −0.005627
Std Dev 1.035

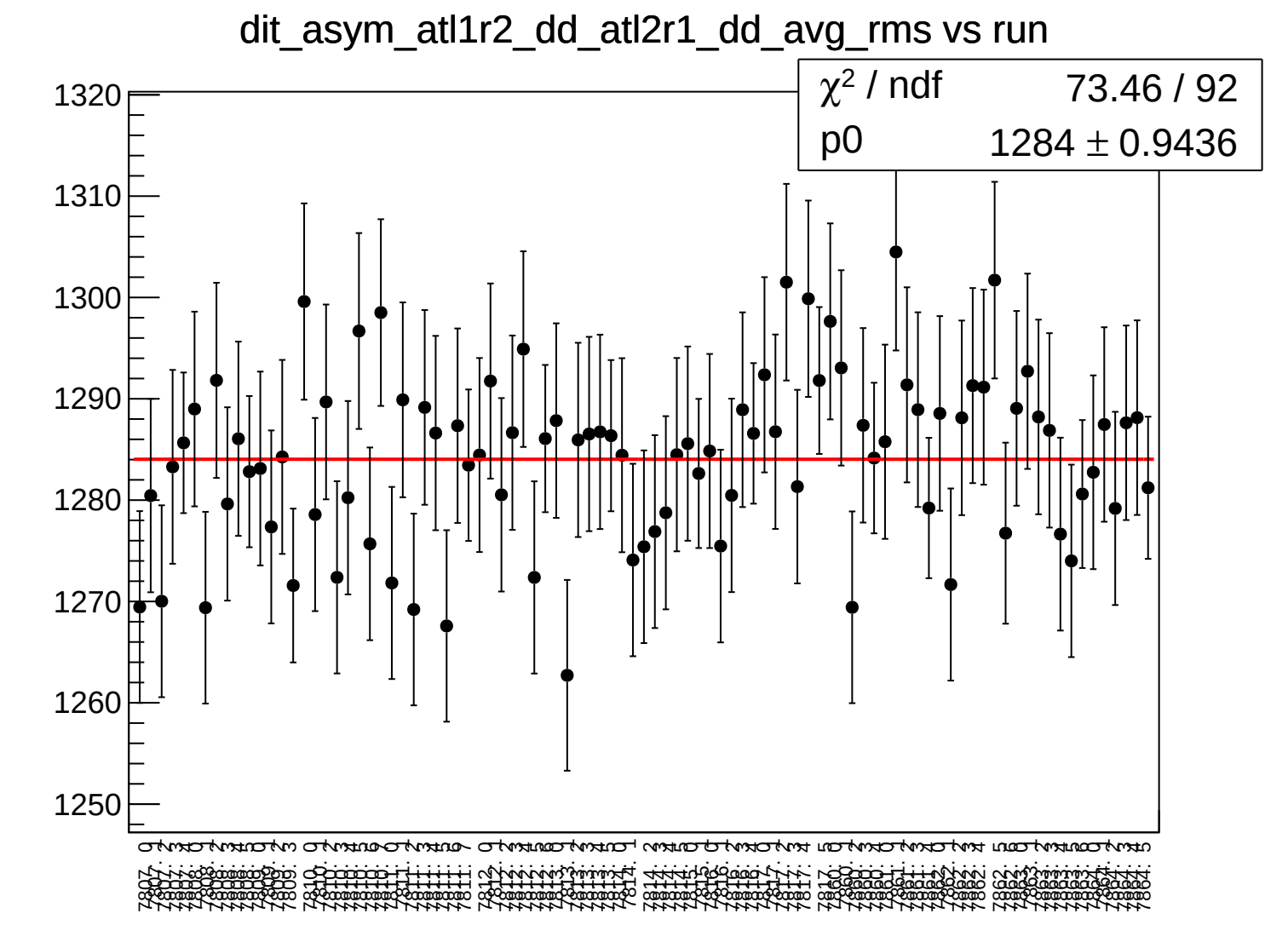

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 74.27 / 92
p0 1282 ± 0.9422
1310
1300
1290
1280
1270
1260
1250

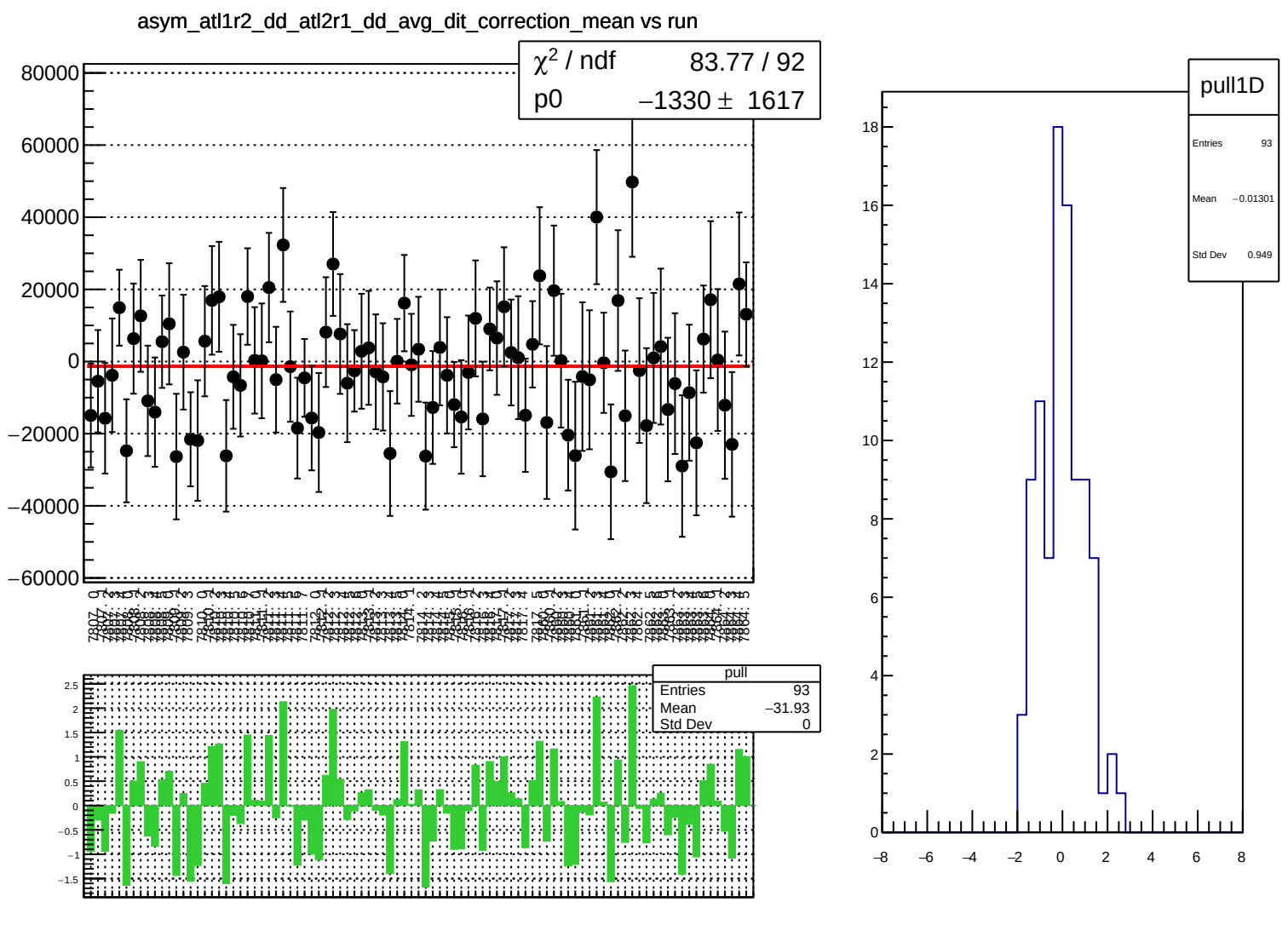

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 84.2 / 92
p0 −1286 ± 1617
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −25.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 93
Mean −0.01625
Std Dev 0.9514
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

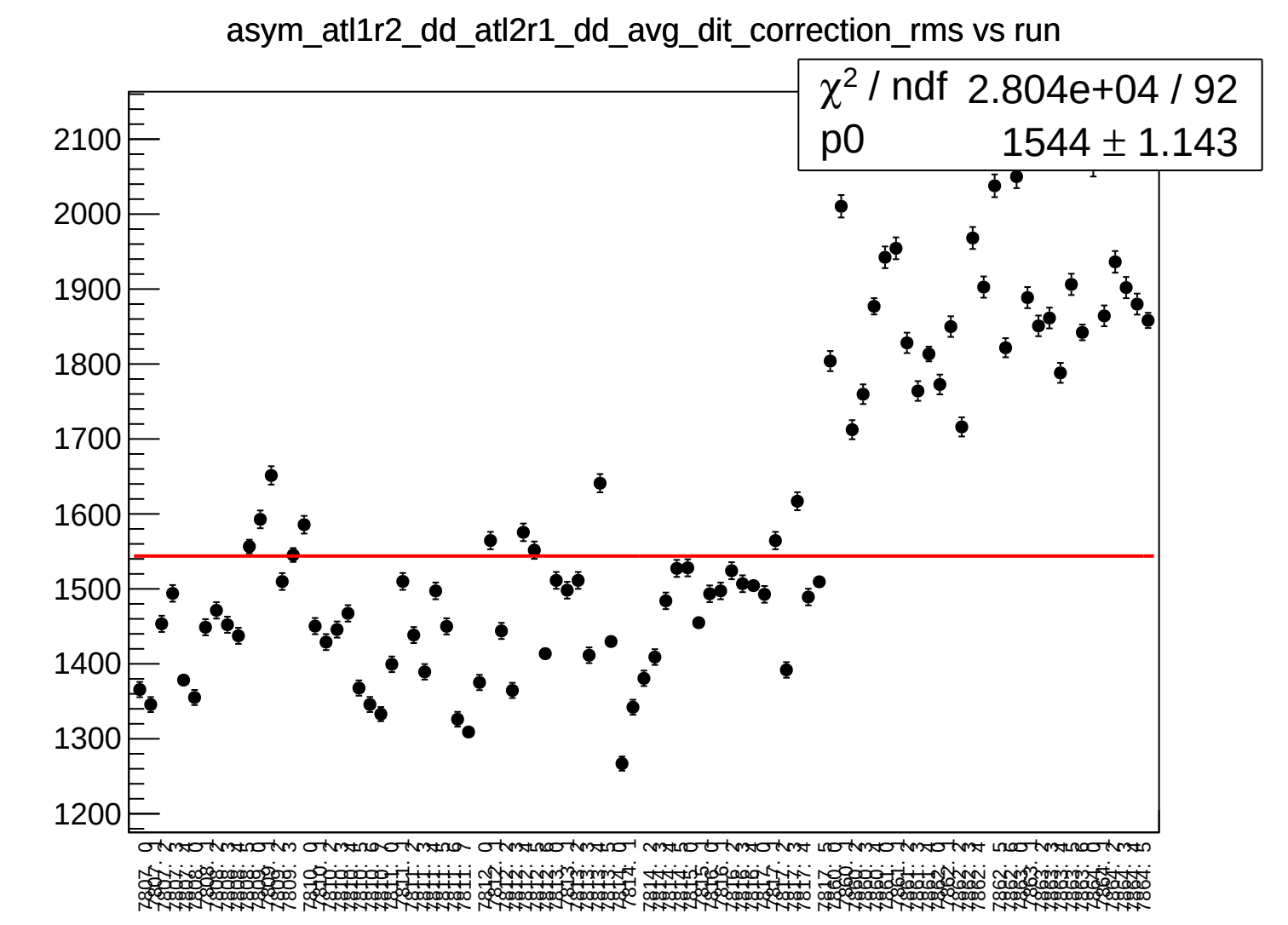

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.508e+04 / 92
p0 1545 ± 1.143
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200

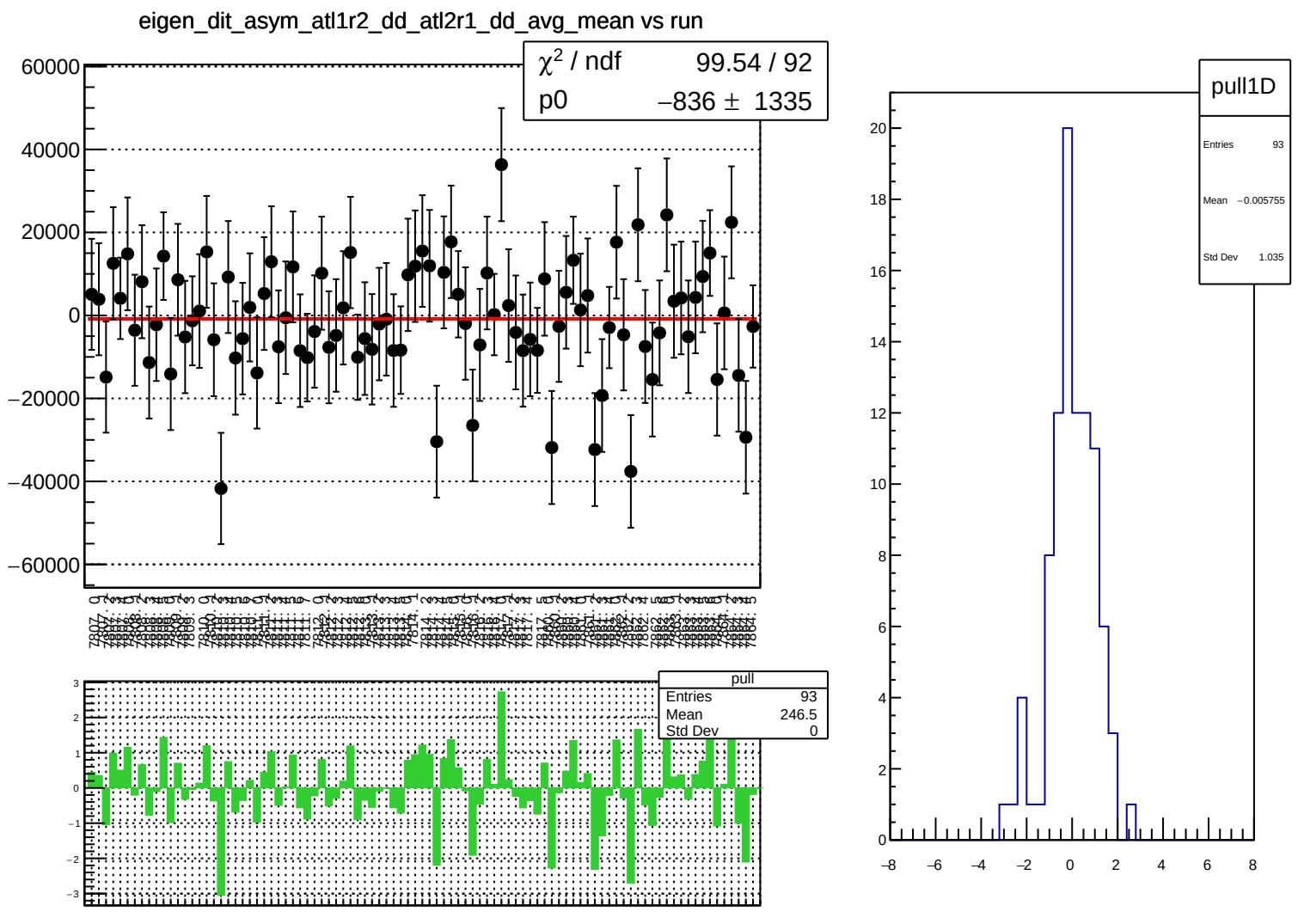

dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 99.54 / 92
p0 −836 ± 1335
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 246.5
Std Dev 0
3
2
1
0
−1
−2
−3

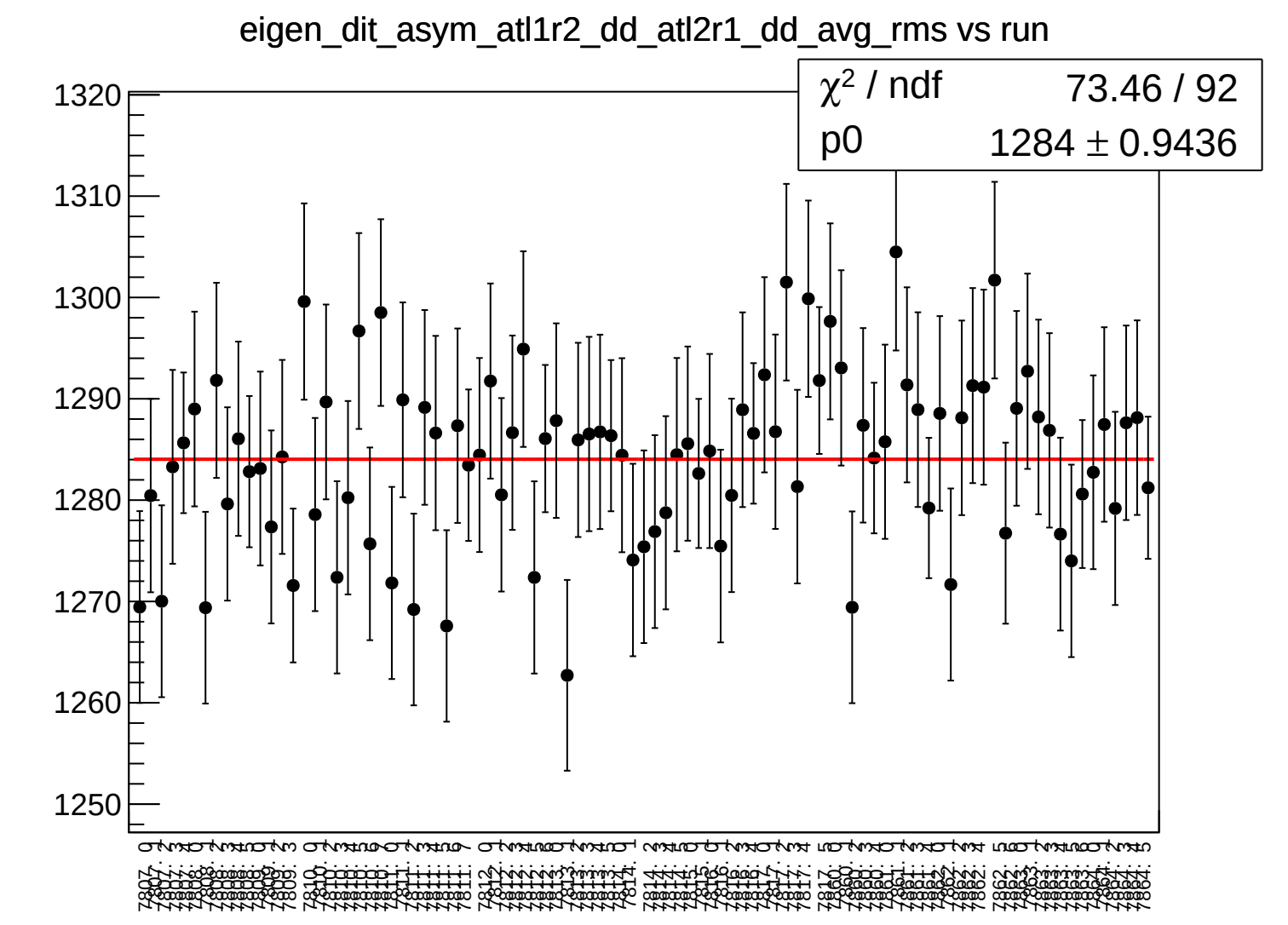

pull1D
Entries 93
Mean −0.005755
Std Dev 1.035
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

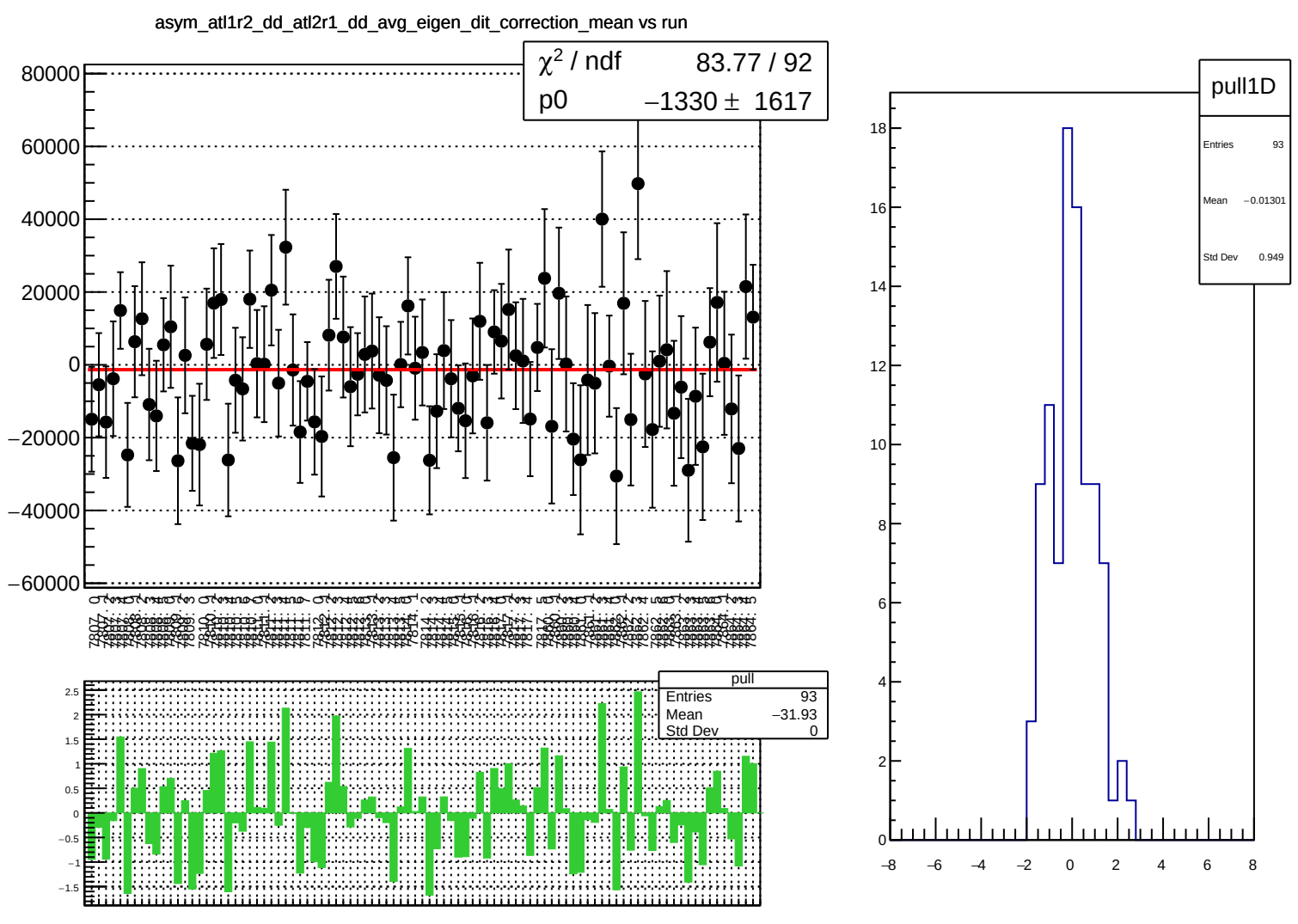

dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 73.46 / 92
p0 1284 ± 0.9436
1320
1310
1300
1290
1280
1270
1260
1250

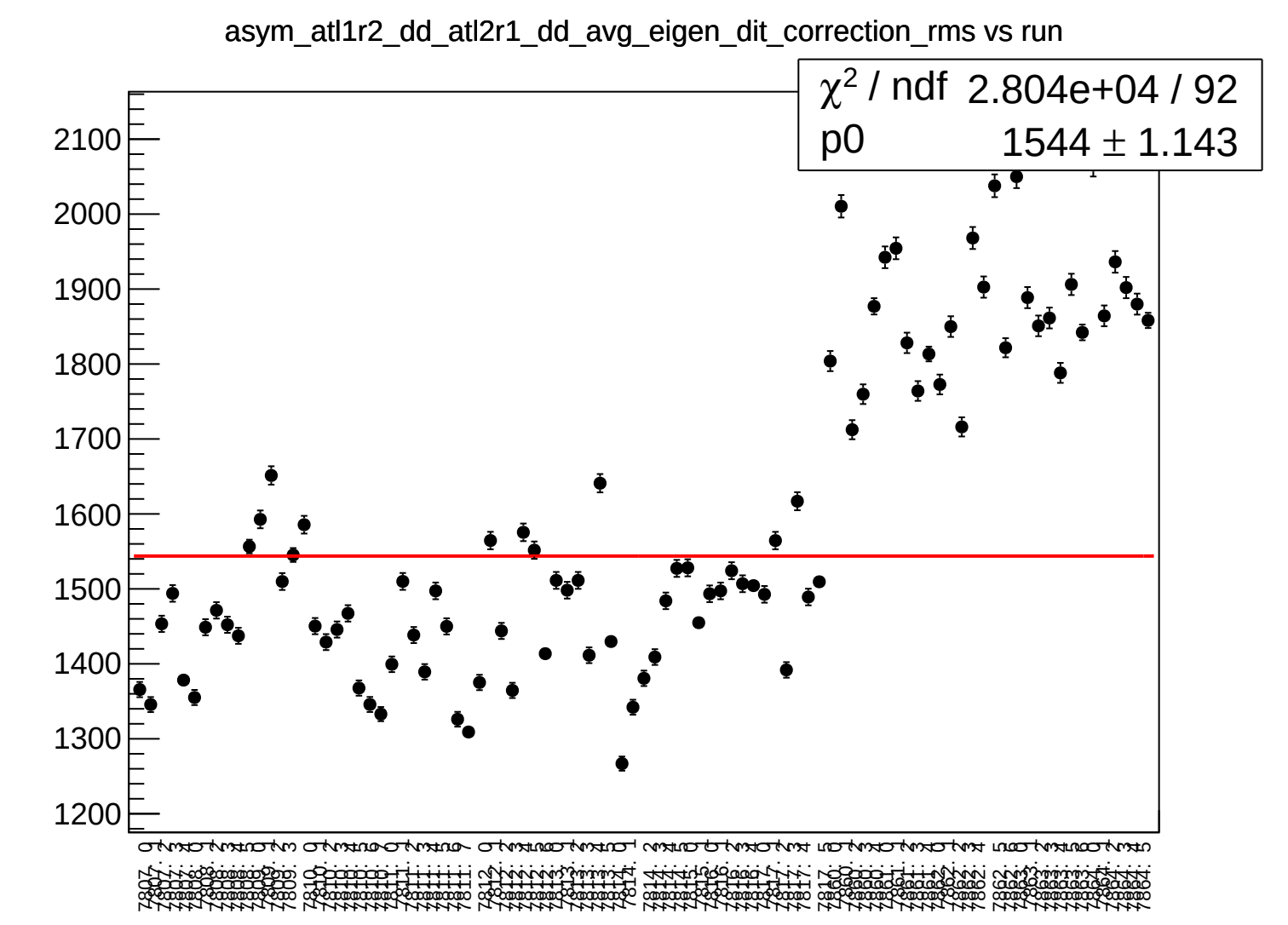

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_mean vs run
χ² / ndf 83.77 / 92
p0 −1330 ± 1617
pull
Entries 93
Mean −31.93
Std Dev 0
pull1D
Entries 93
Mean −0.01301
Std Dev 0.949

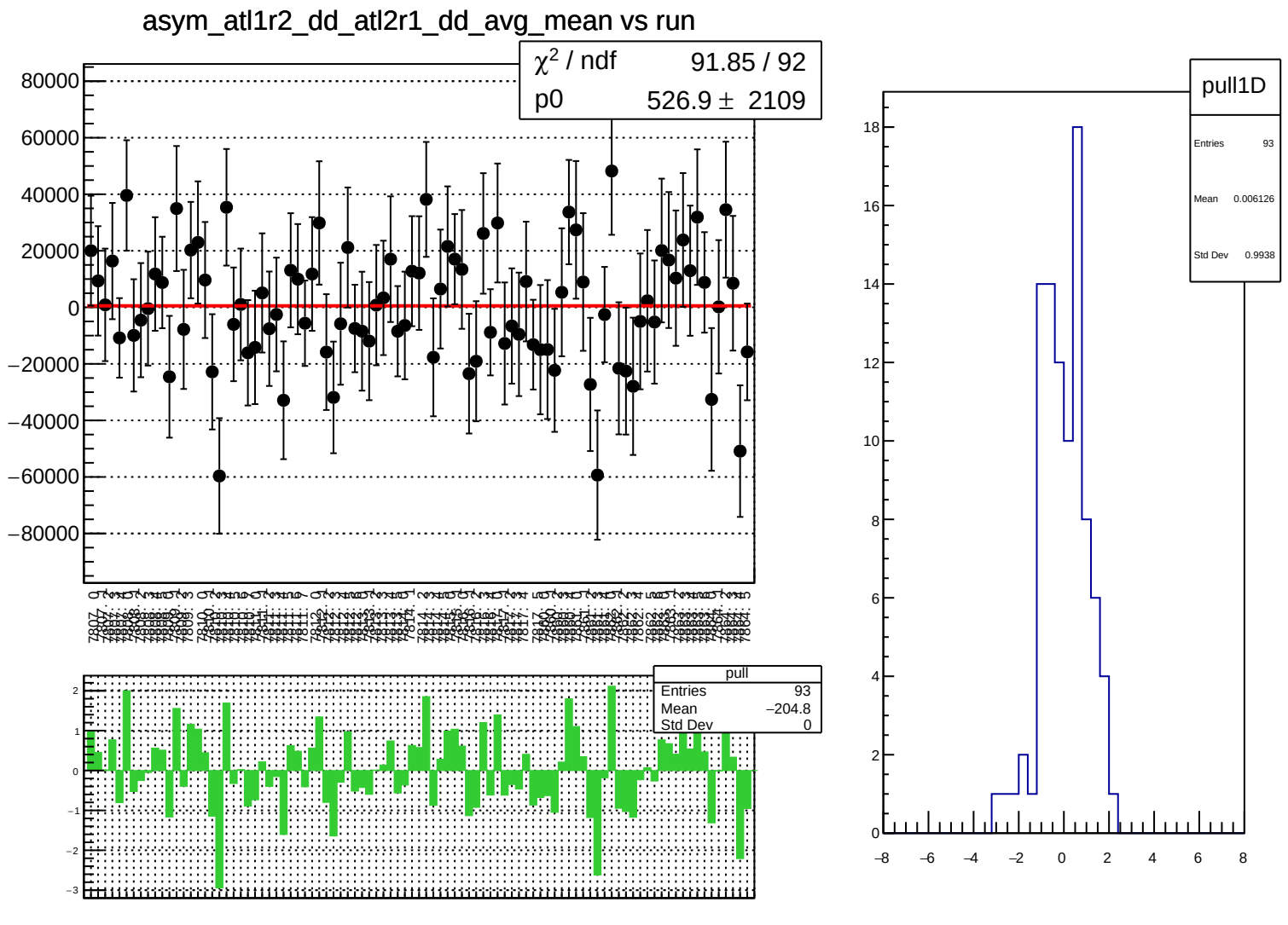

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_rms vs run
χ² / ndf 2.804e+04 / 92
p0 1544 ± 1.143
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200

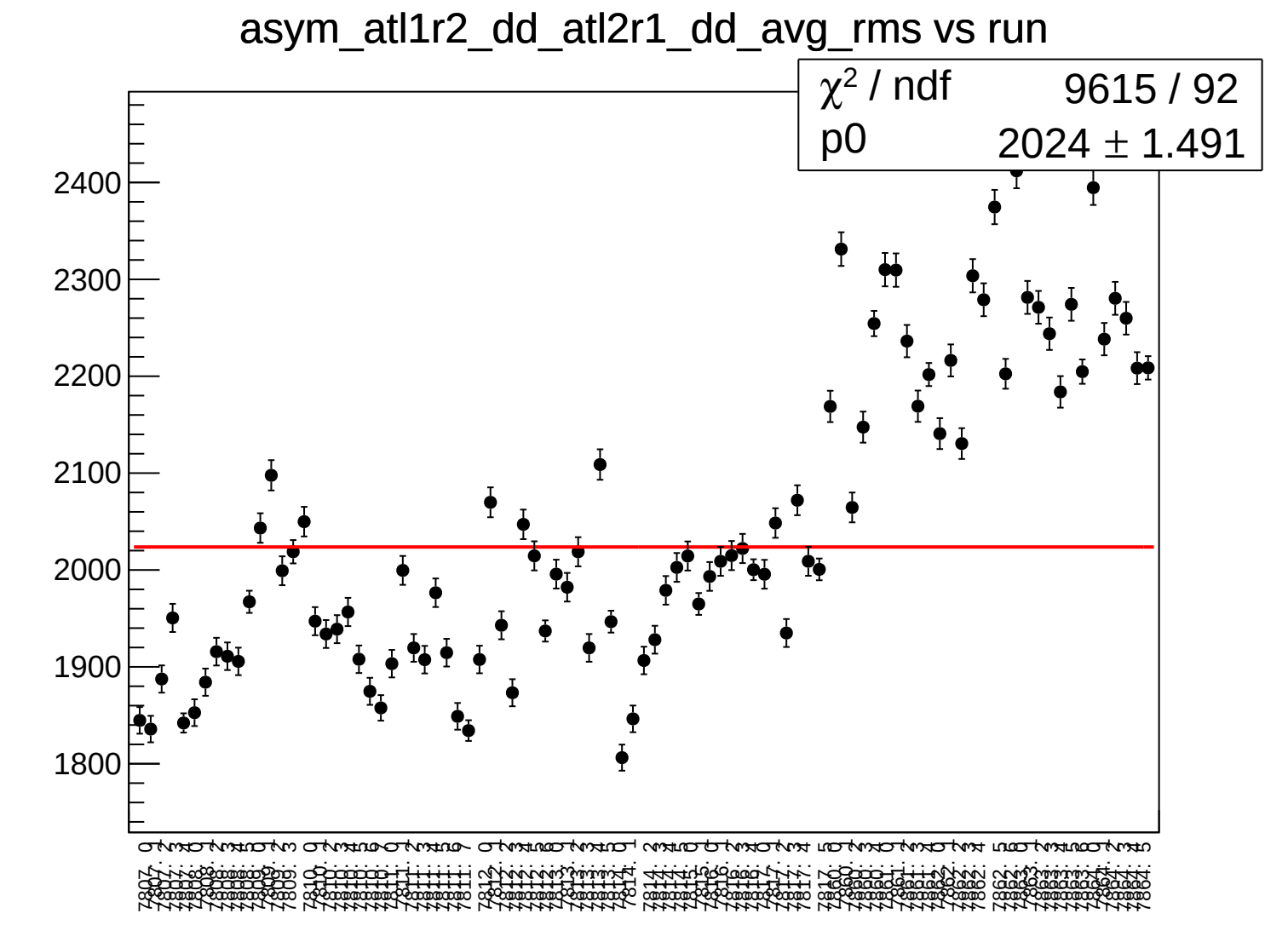

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 99.54 / 92
p0 −836 ± 1335
pull
Entries 93
Mean 246.5
Std Dev 0
pull1D
Entries 93
Mean −0.005755
Std Dev 1.035

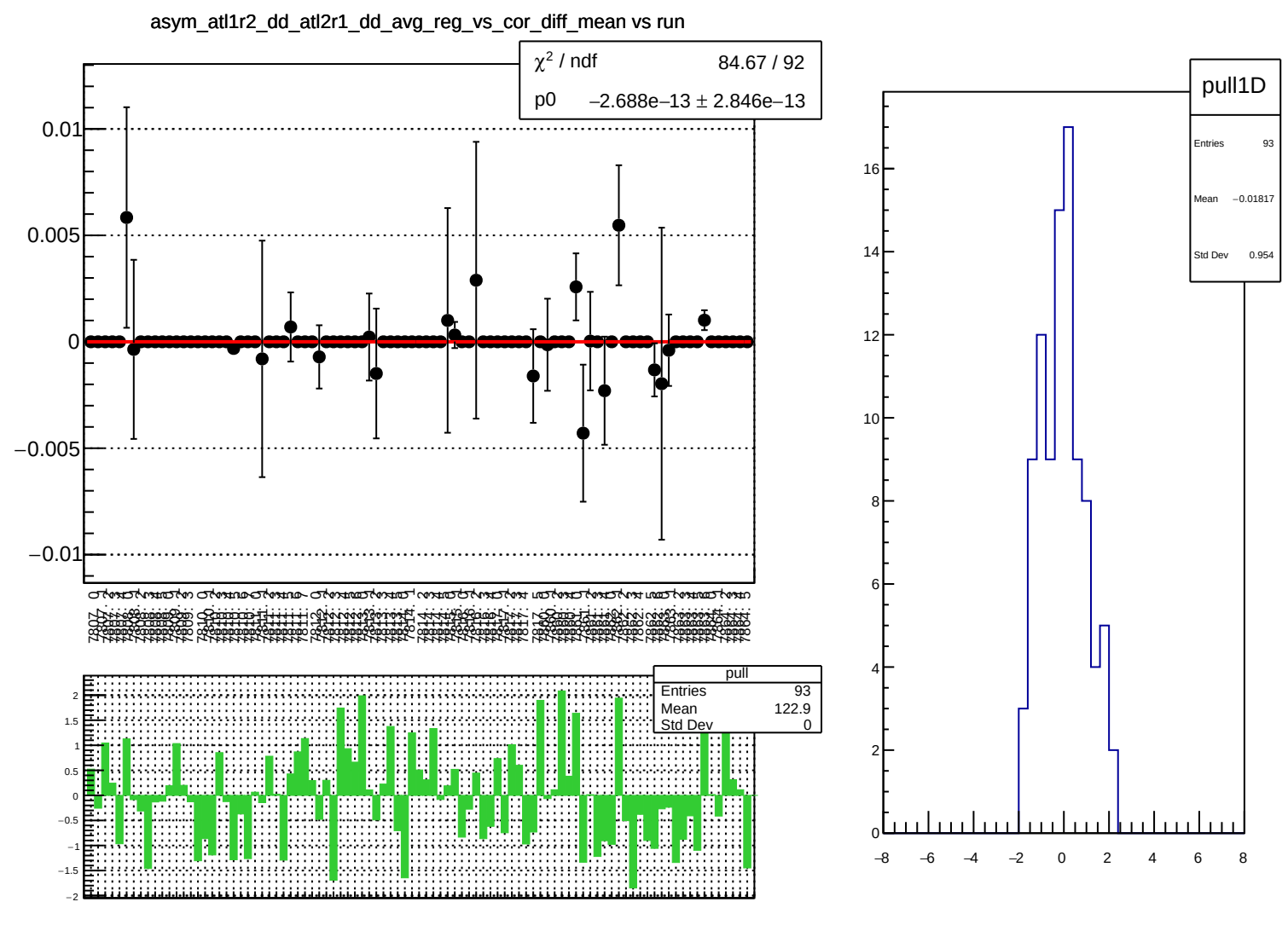

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 73.46 / 92
p0 1284 ± 0.9436
1320
1310
1300
1290
1280
1270
1260
1250

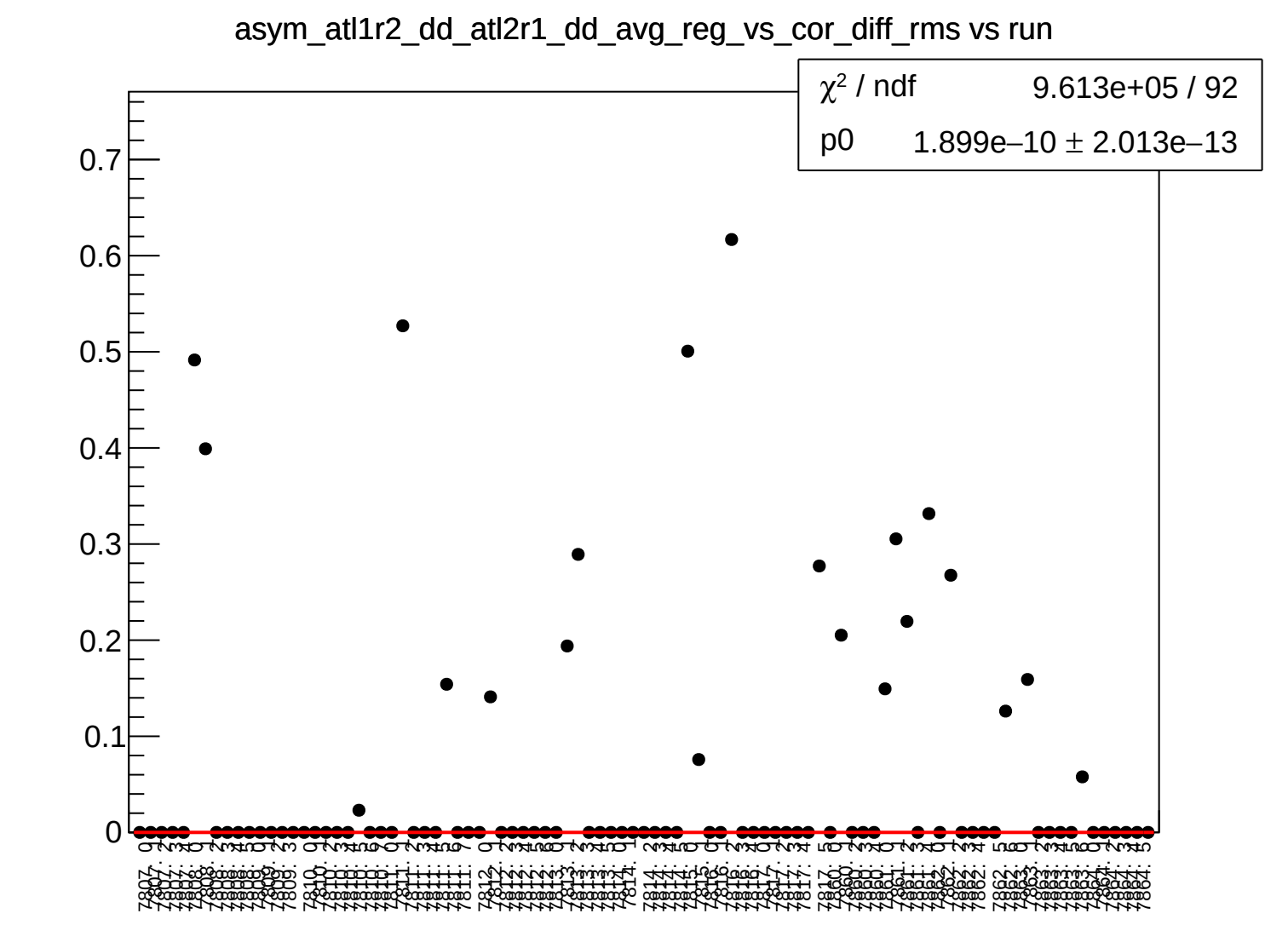

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 83.77 / 92
p0 −1330 ± 1617
pull
Entries 93
Mean −31.93
Std Dev 0
pull1D
Entries 93
Mean −0.01301
Std Dev 0.949

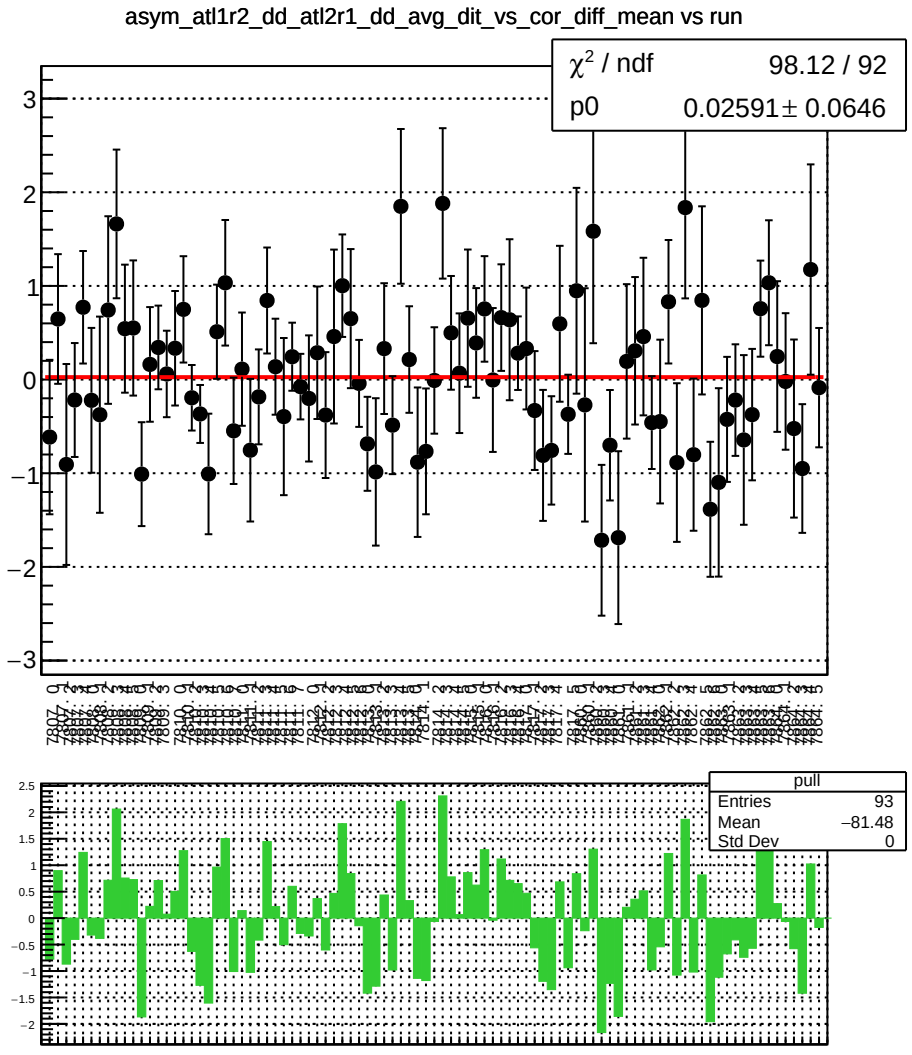

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.804e+04 / 92
p0 1544 ± 1.143
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200

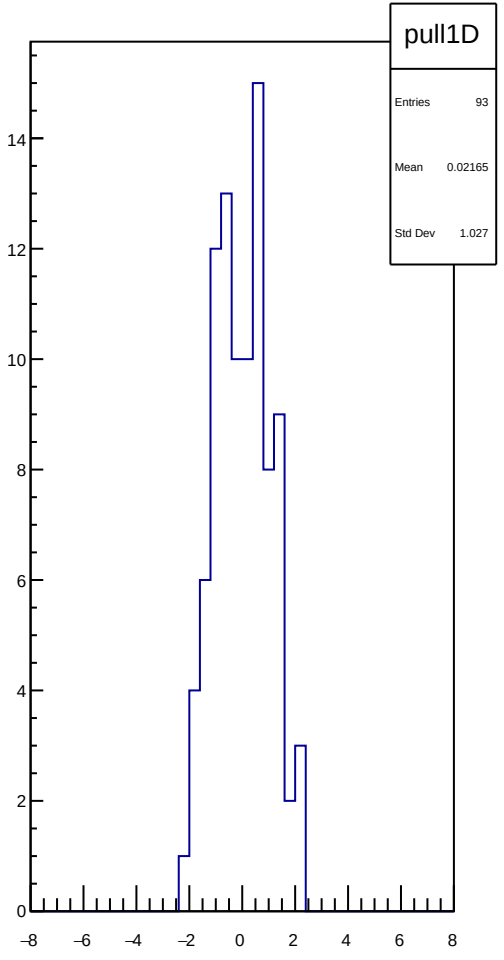

asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 91.85 / 92
p0 526.9 ± 2109
pull
Entries 93
Mean −204.8
Std Dev 0
pull1D
Entries 93
Mean 0.006126
Std Dev 0.9938

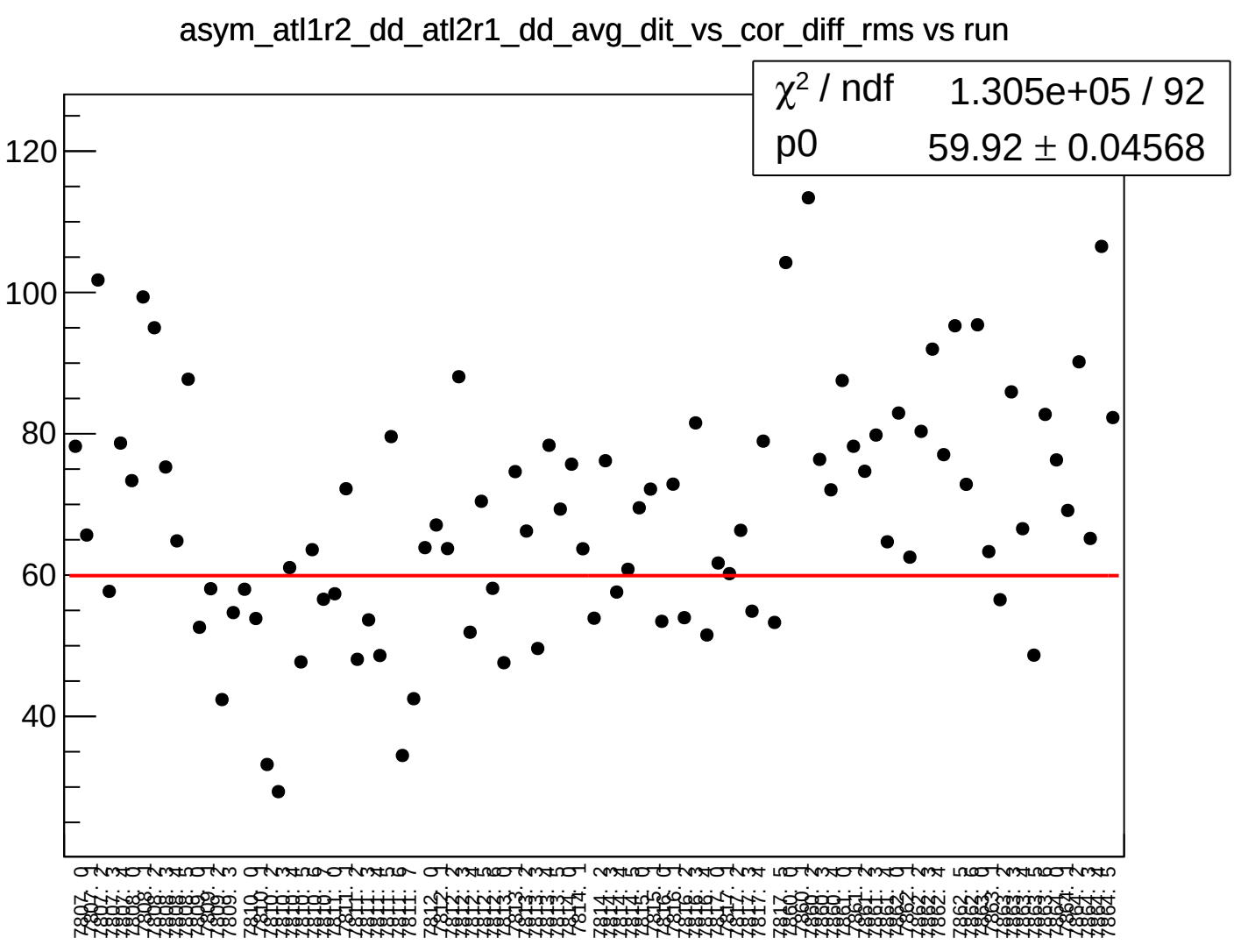

asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 9615 / 92
p0 2024 ± 1.491
2400
2300
2200
2100
2000
1900
1800

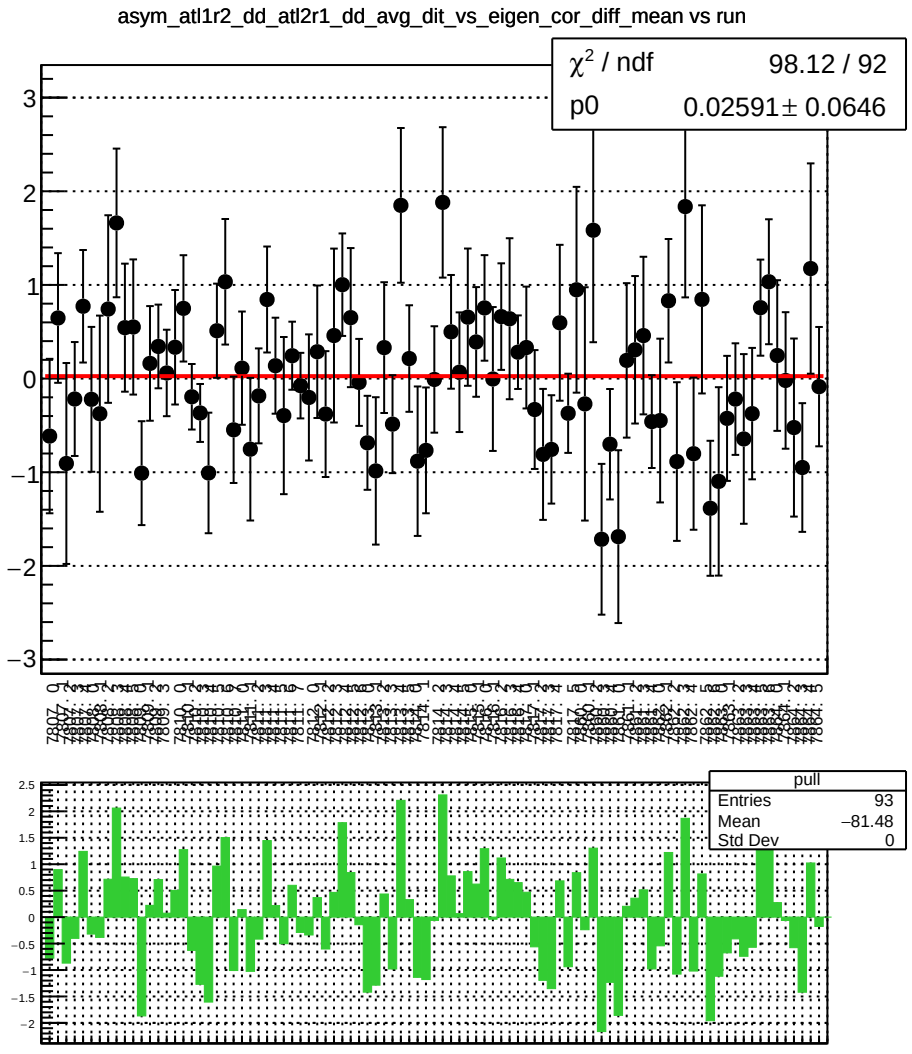

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 84.67 / 92
p0 −2.688e−13 ± 2.846e−13
0.01
0.005
0
−0.005
−0.01
pull
Entries 93
Mean 122.9
Std Dev 0
pull1D
Entries 93
Mean −0.01817
Std Dev 0.954

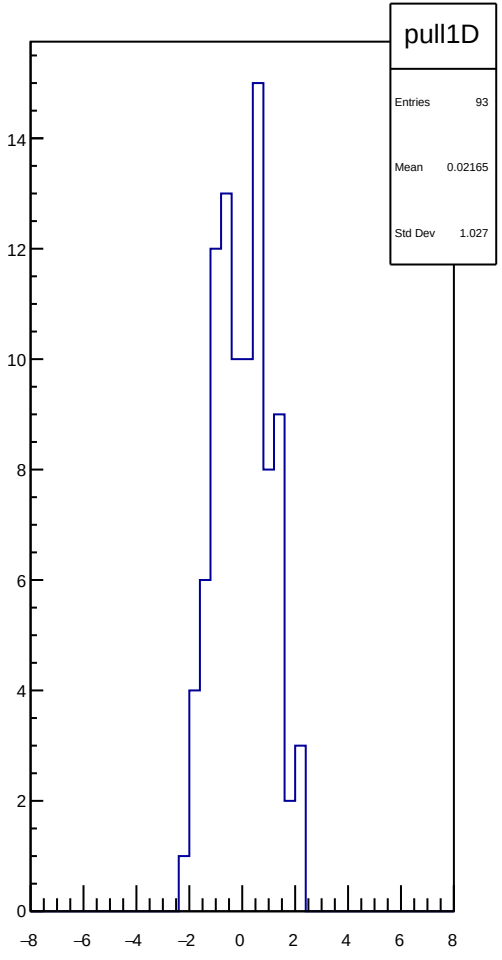

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.613e+05 / 92
p0 1.899e−10 ± 2.013e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

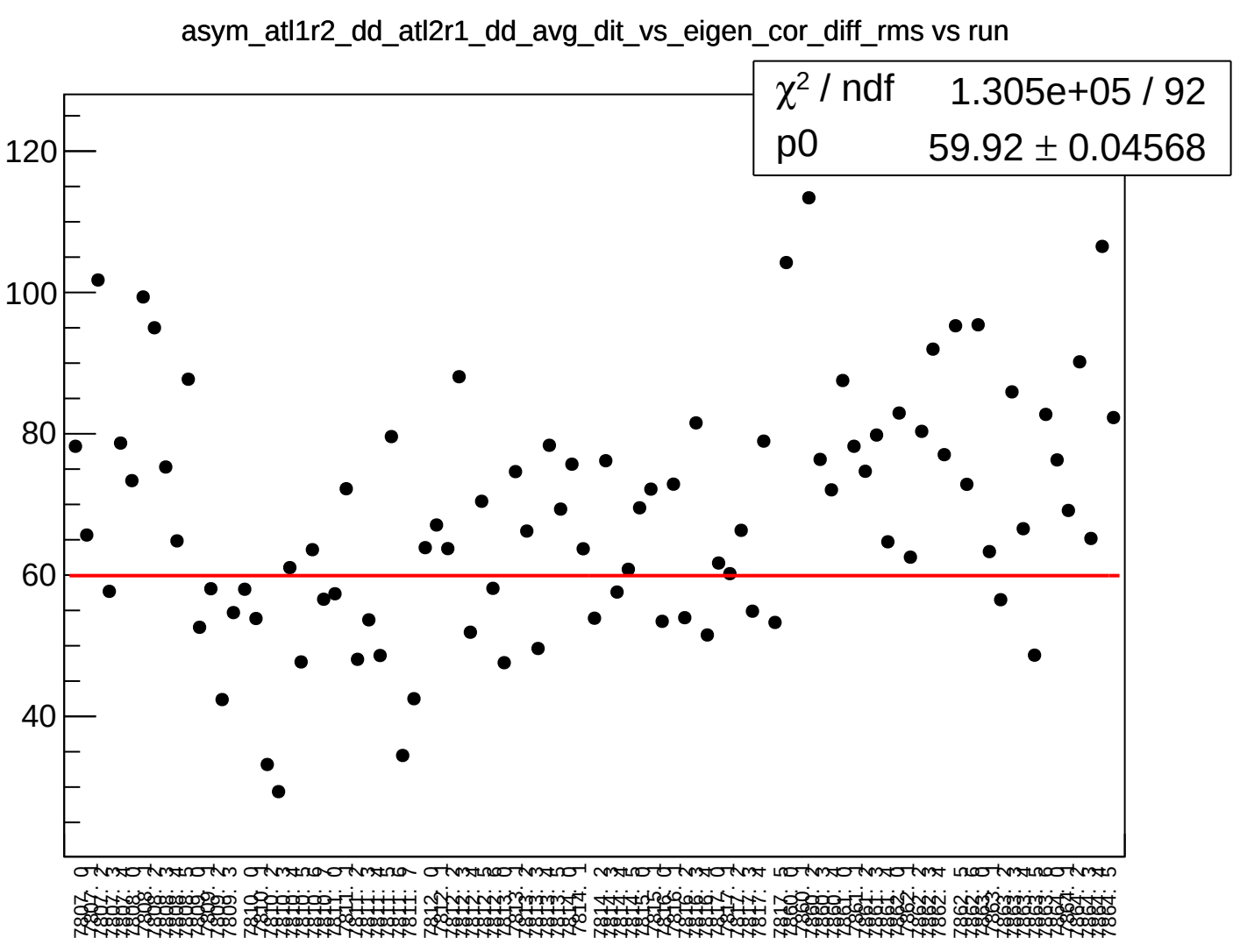

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 98.12 / 92
p0 0.02591 ± 0.0646
pull
Entries 93
Mean −81.48
Std Dev 0

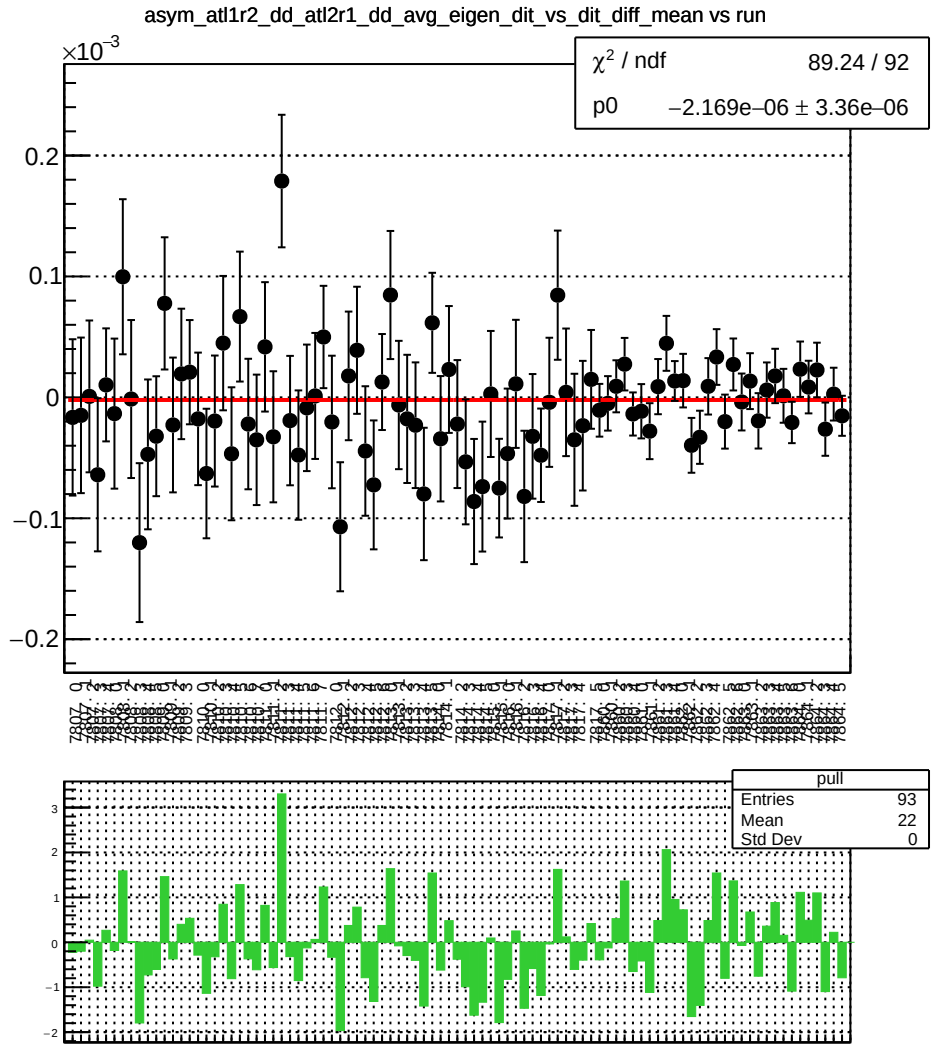

pull1D
Entries 93
Mean 0.02165
Std Dev 1.027

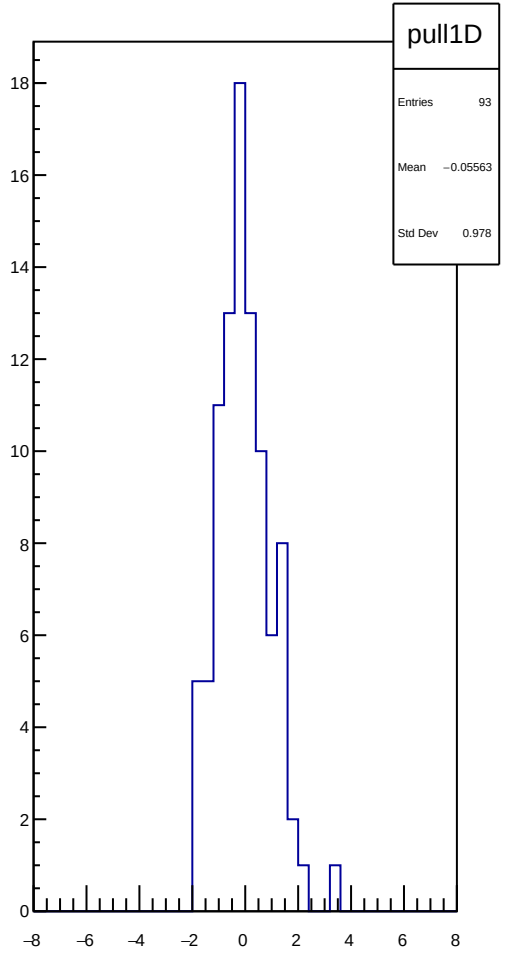

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.305e+05 / 92
p0 59.92 ± 0.04568
120
100
80
60
40

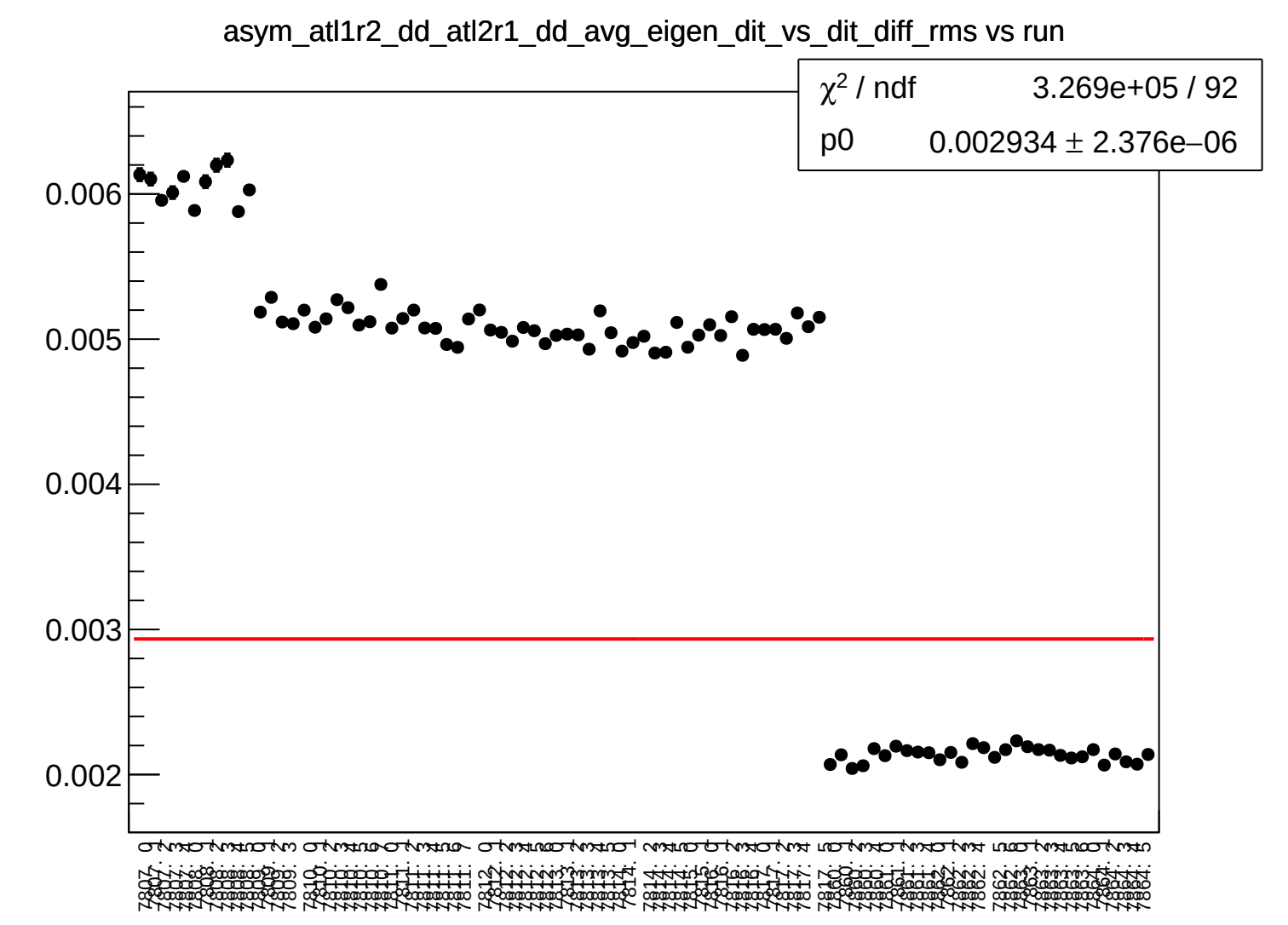

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.12 / 92
p0 0.02591 ± 0.0646
pull
Entries 93
Mean −81.48
Std Dev 0

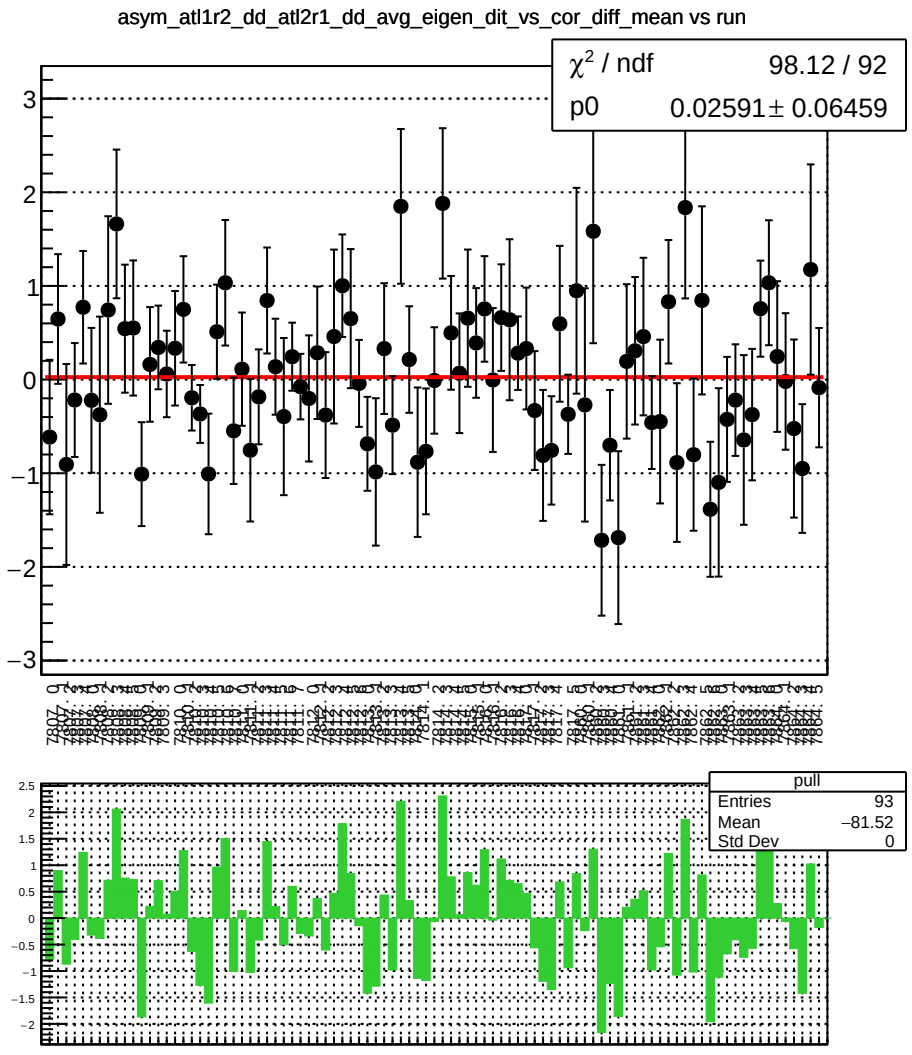

pull1D
Entries 93
Mean 0.02165
Std Dev 1.027

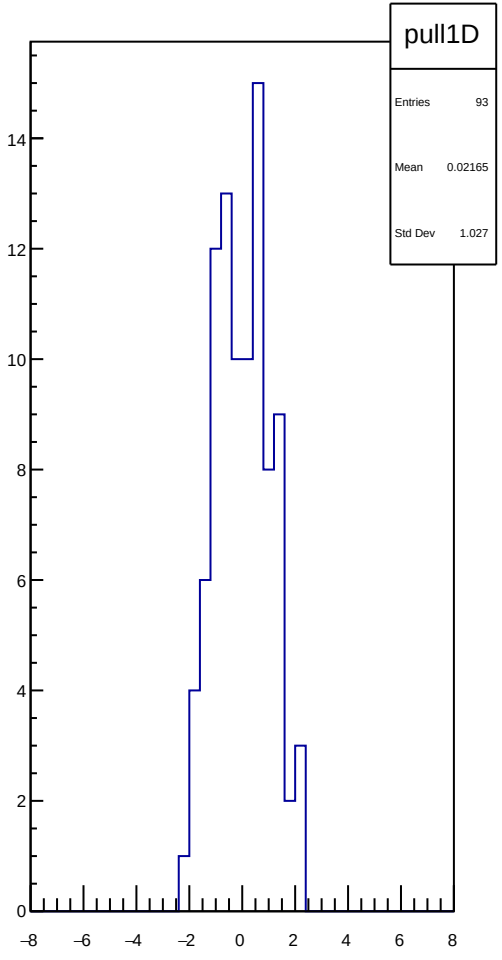

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.305e+05 / 92
p0 59.92 ± 0.04568
120
100
80
60
40

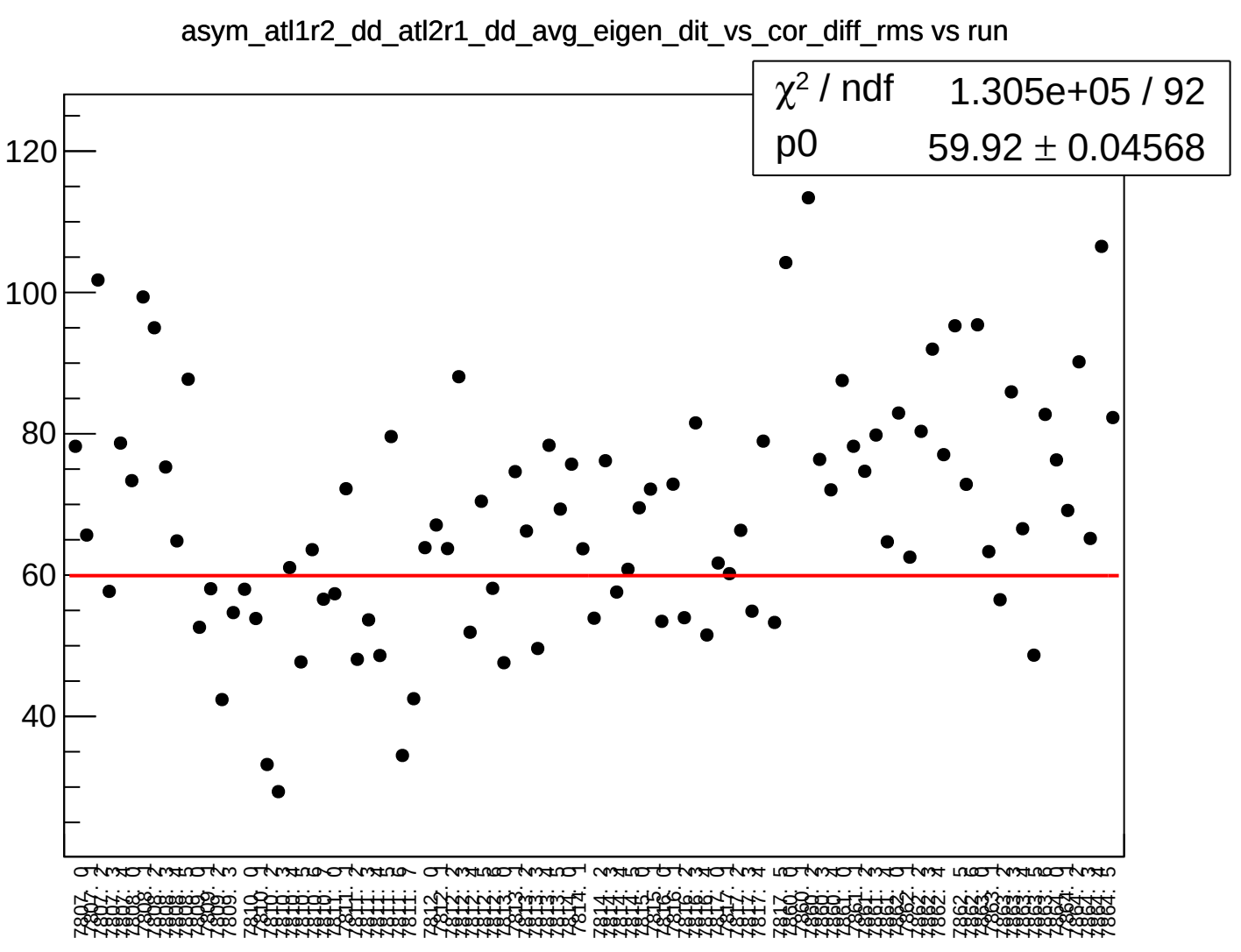

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.24 / 92
p0 −2.169e−06 ± 3.36e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 93
Mean 22
Std Dev 0
3
2
1
0
−1
−2

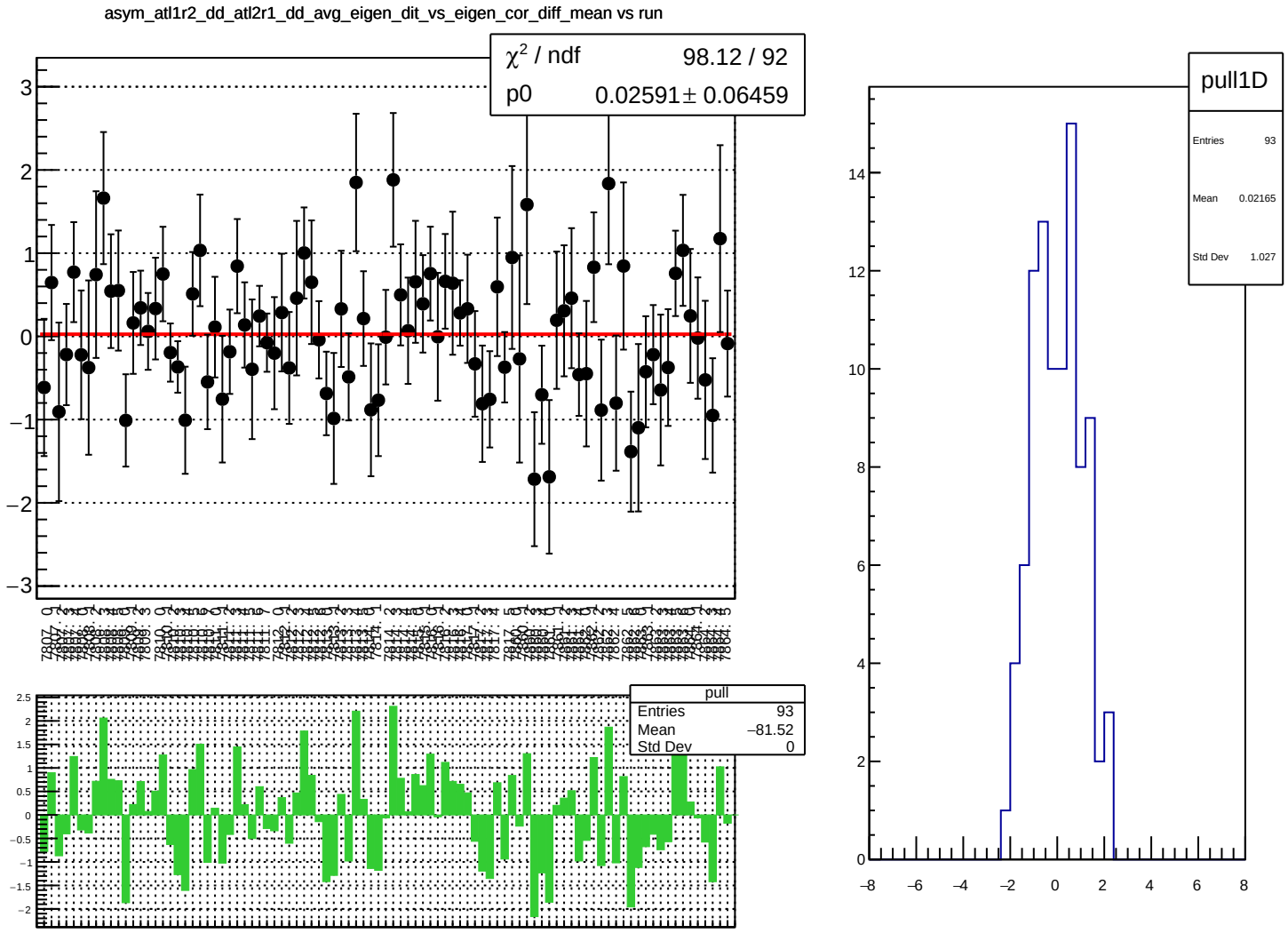

pull1D
Entries 93
Mean −0.05563
Std Dev 0.978
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

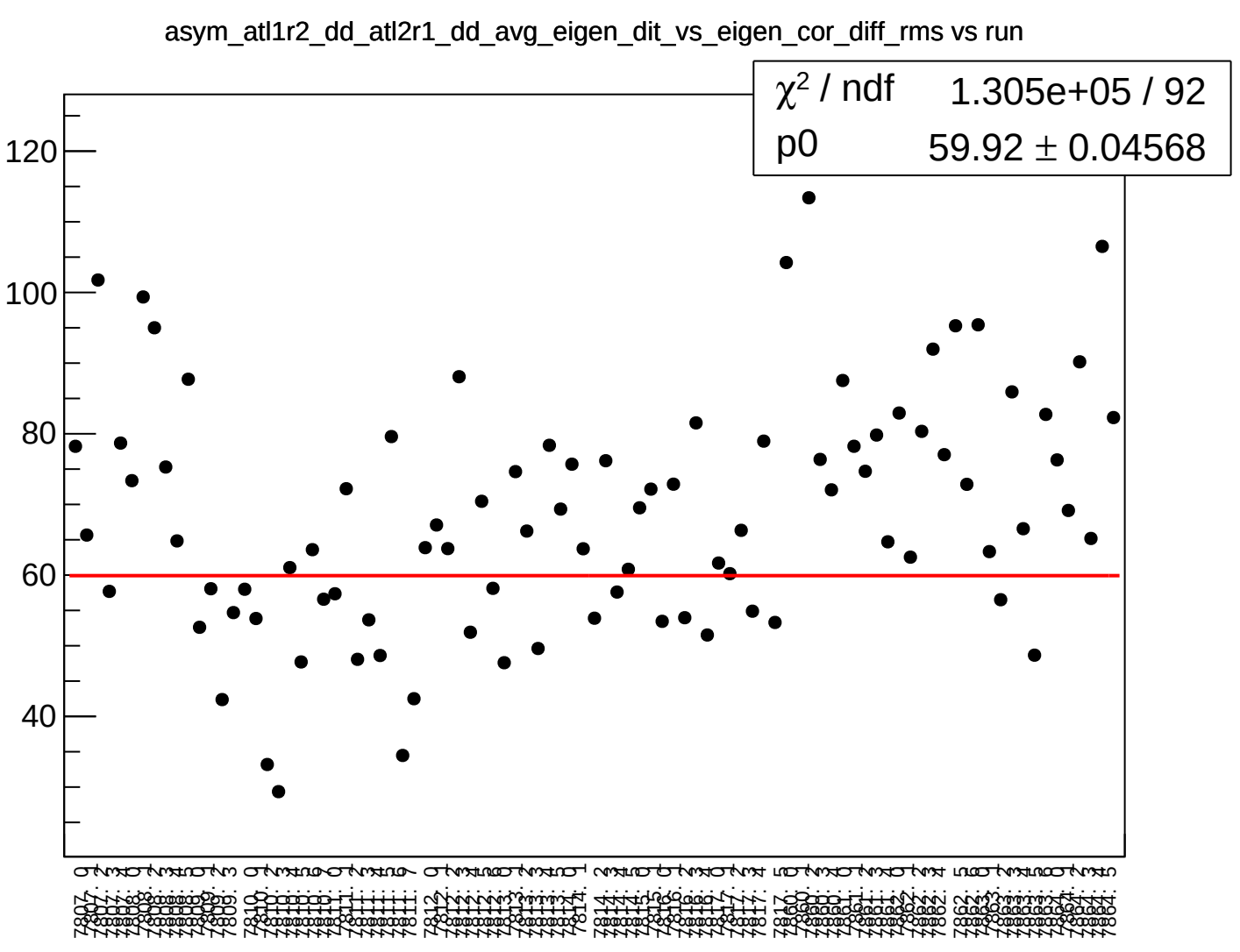

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.269e+05 / 92
p0 0.002934 ± 2.376e−06
0.006
0.005
0.004
0.003
0.002

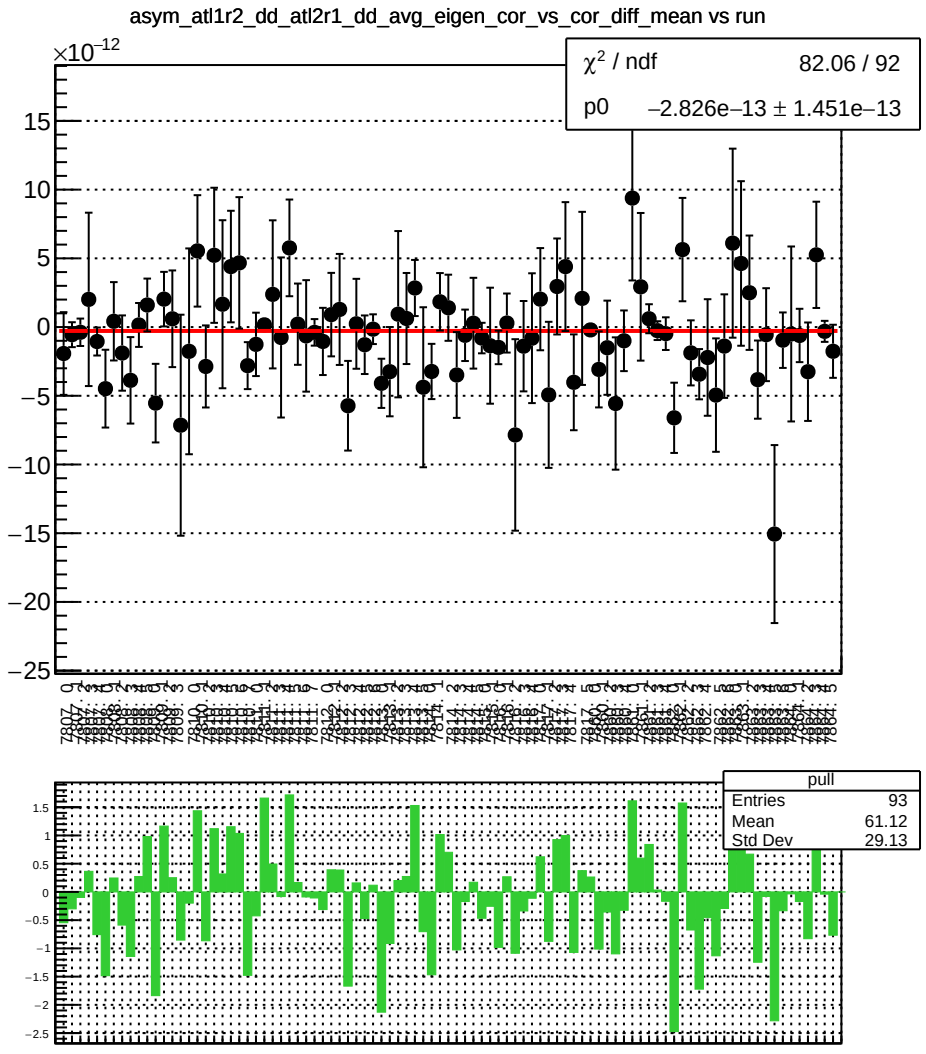

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 98.12 / 92
p0 0.02591 ± 0.06459
pull
Entries 93
Mean −81.52
Std Dev 0

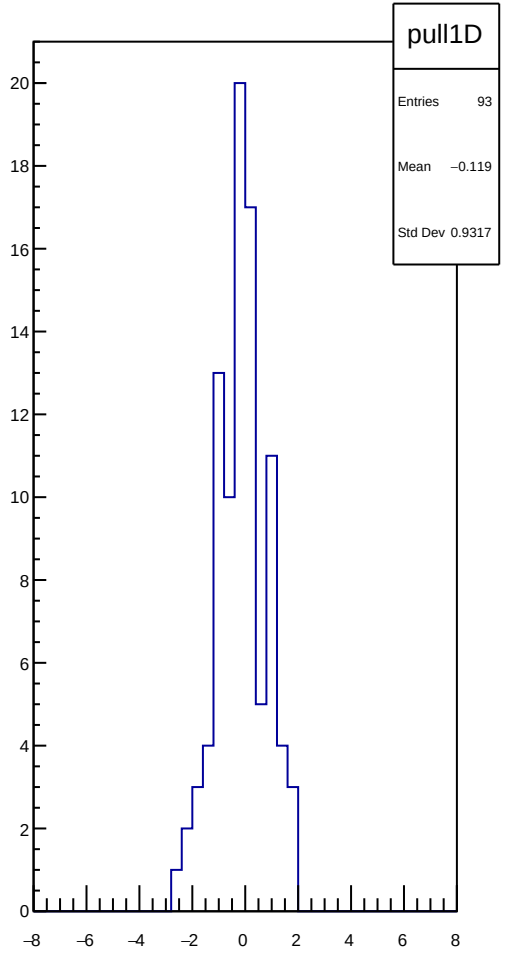

pull1D
Entries 93
Mean 0.02165
Std Dev 1.027

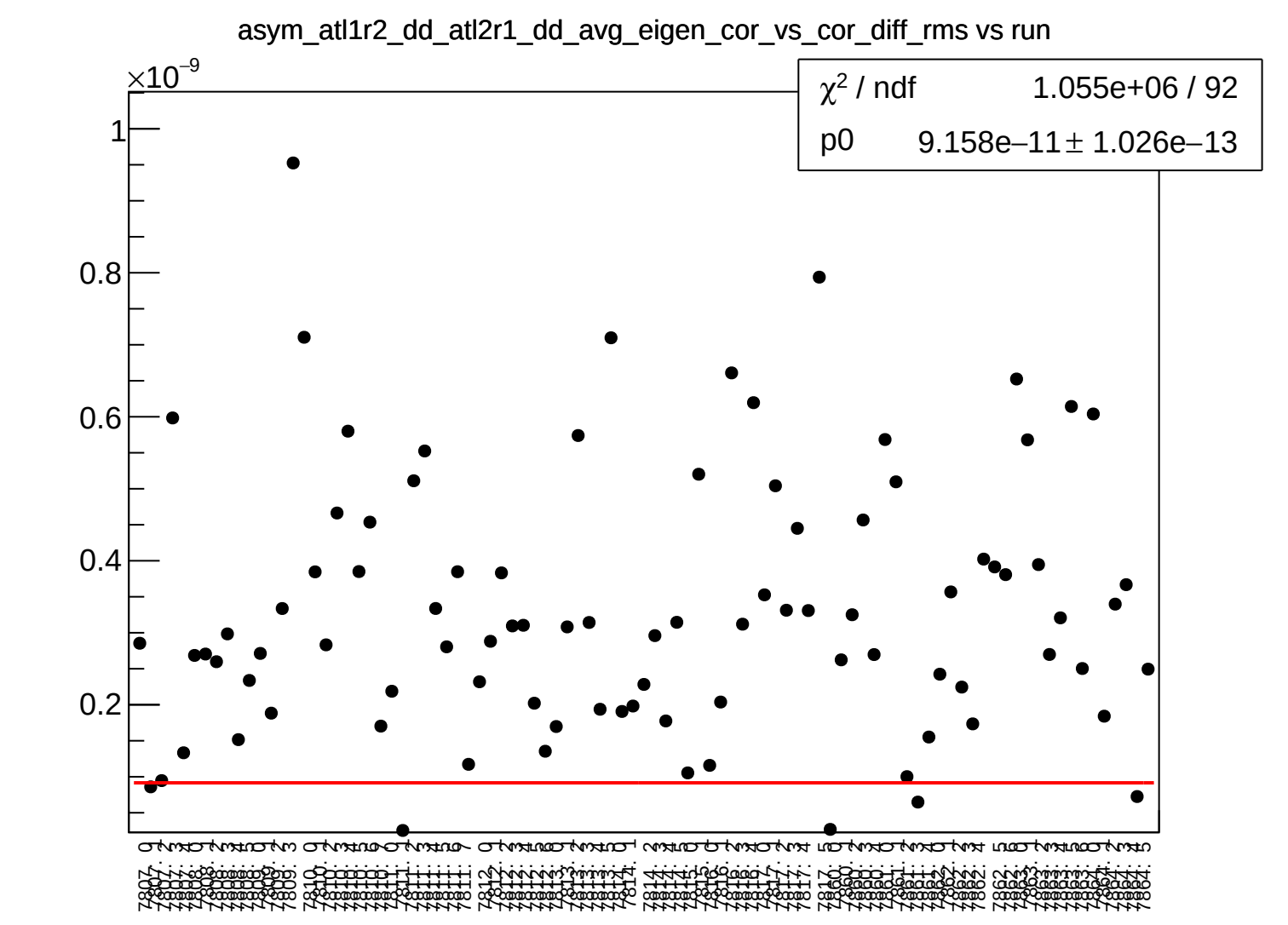

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.305e+05 / 92
p0 59.92 ± 0.04568
120
100
80
60
40

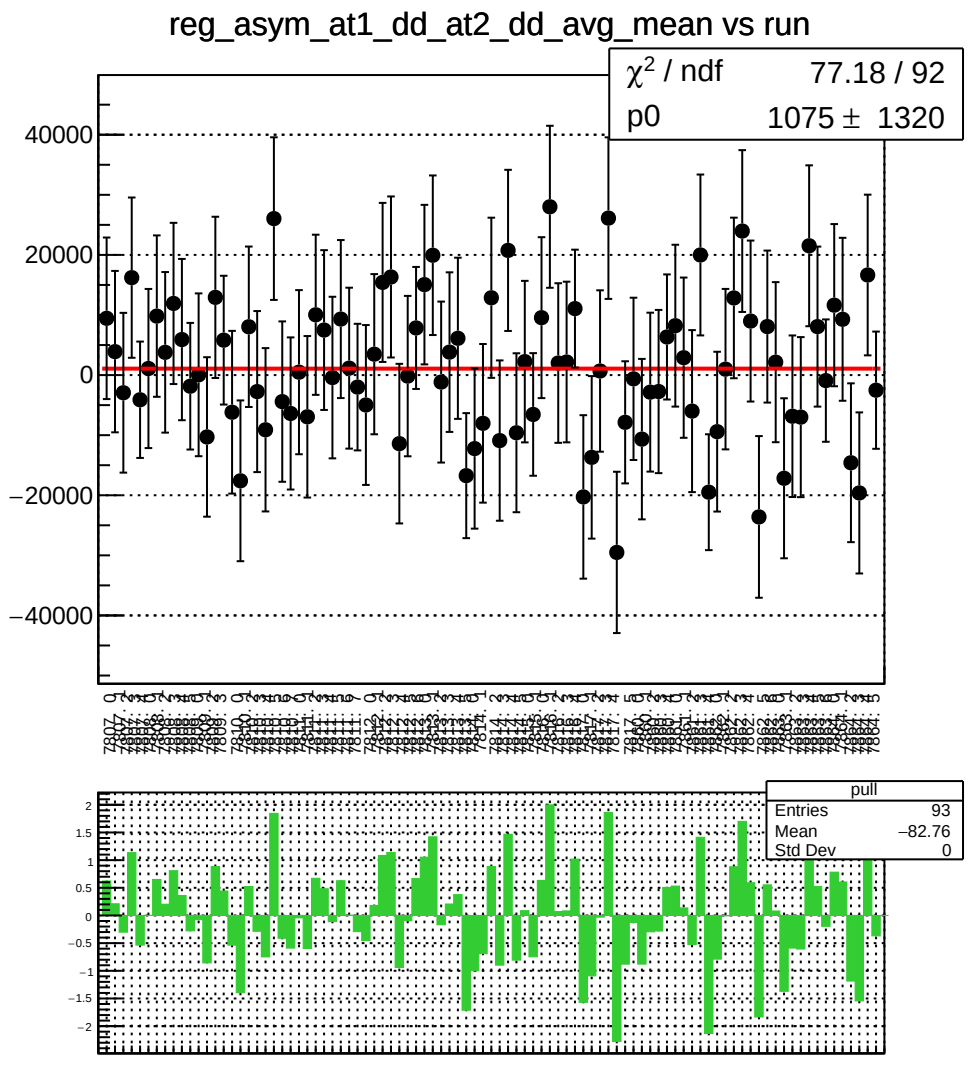

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.12 / 92
p0 0.02591 ± 0.06459
pull
Entries 93
Mean −81.52
Std Dev 0
pull1D
Entries 93
Mean 0.02165
Std Dev 1.027

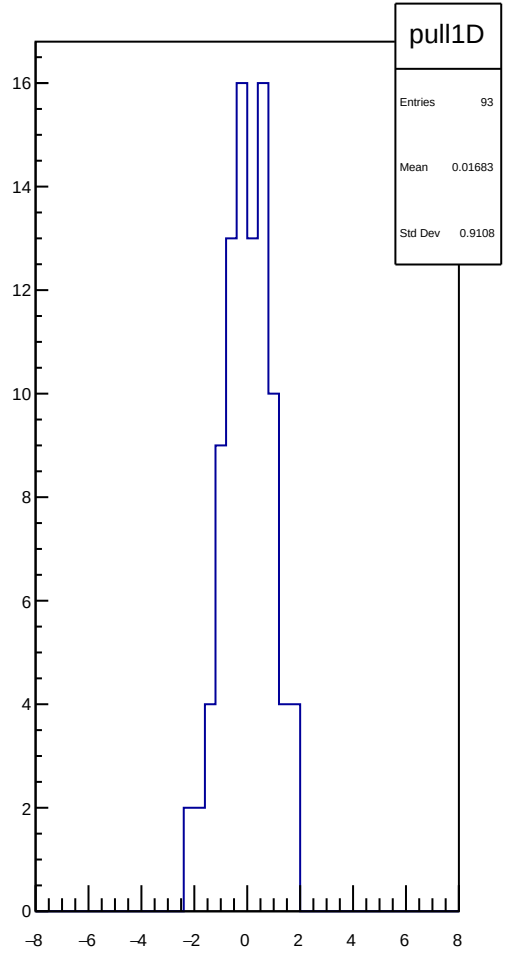

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.305e+05 / 92
p0 59.92 ± 0.04568
120
100
80
60
40

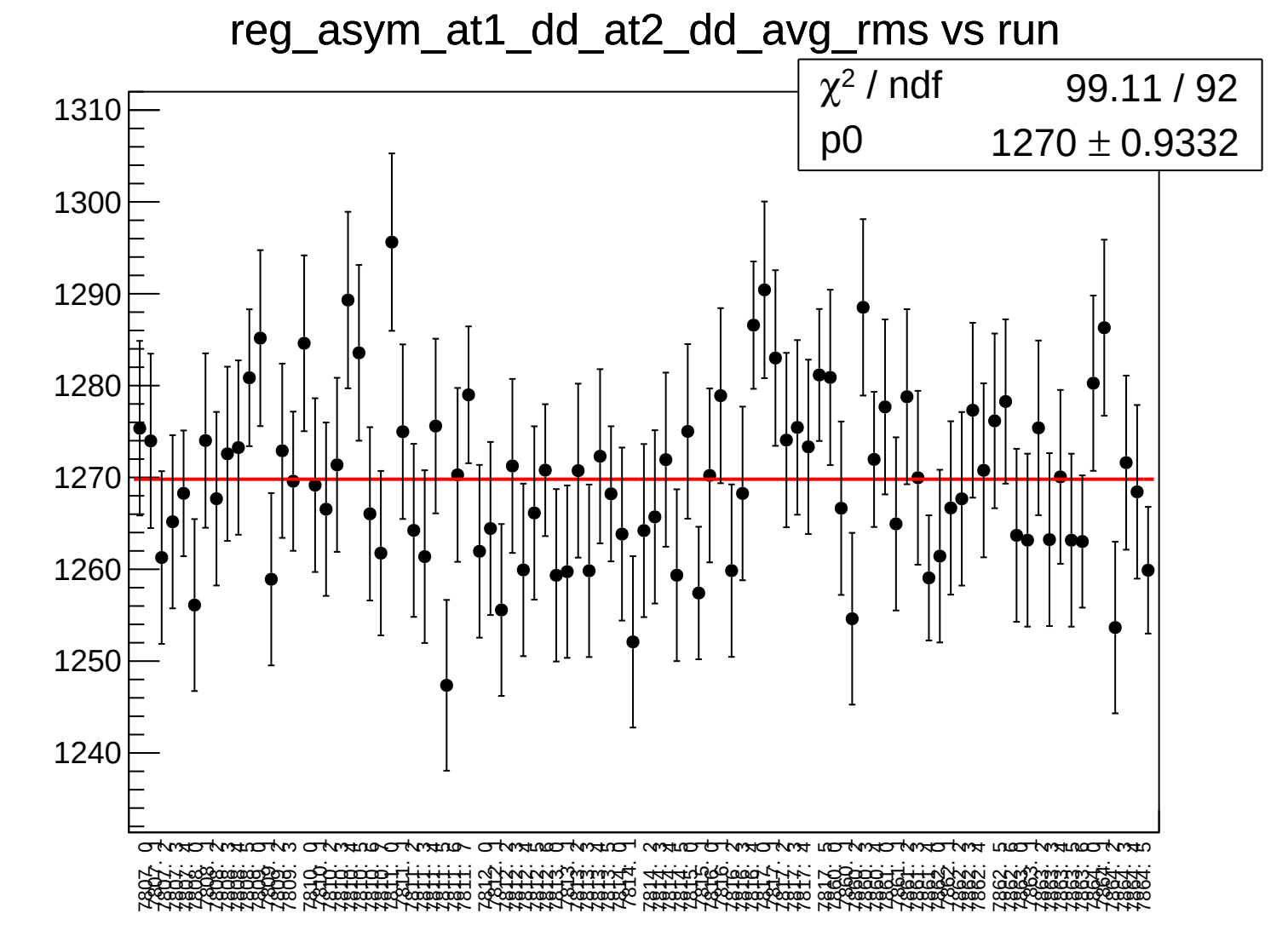

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.06 / 92
p0 −2.826e−13 ± 1.451e−13
pull
Entries 93
Mean 61.12
Std Dev 29.13

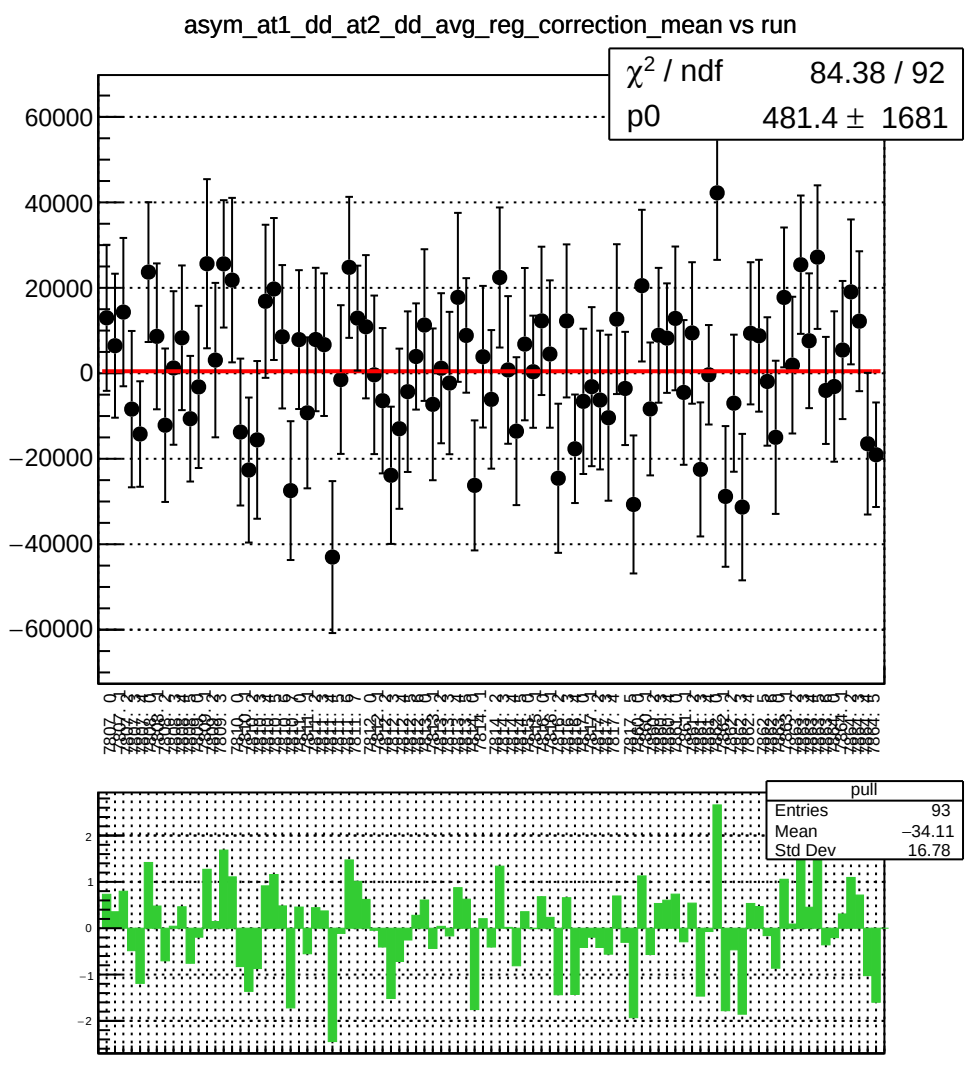

pull1D
Entries 93
Mean −0.119
Std Dev 0.9317

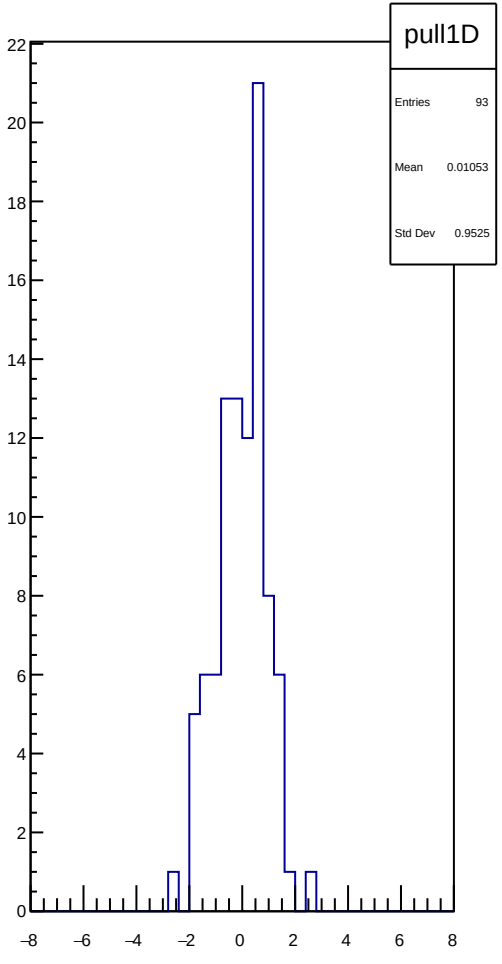

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.055e+06 / 92
p0 9.158e−11 ± 1.026e−13
1
0.8
0.6
0.4
0.2

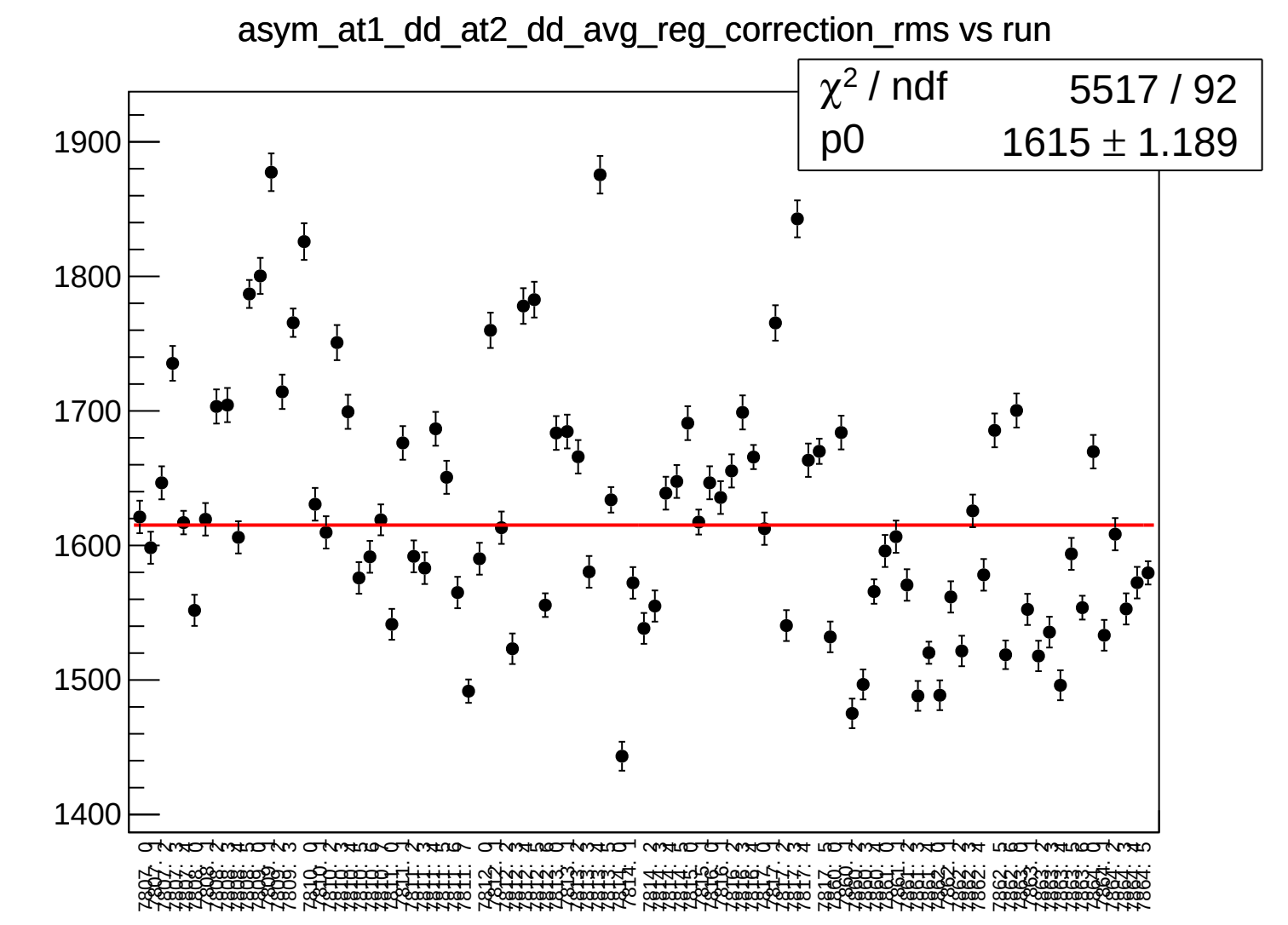

reg_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 77.18 / 92
p0 1075 ± 1320
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −82.76
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

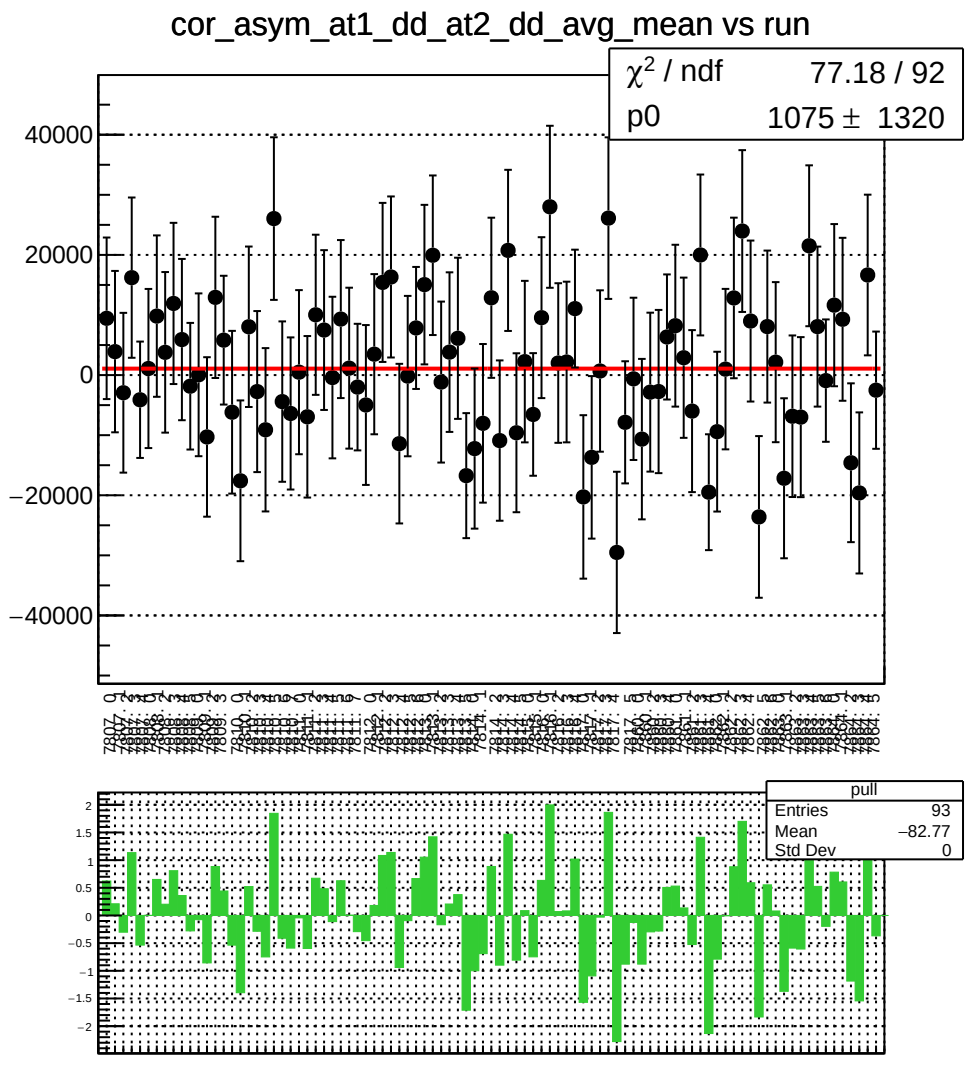

pull1D
Entries 93
Mean 0.01683
Std Dev 0.9108
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

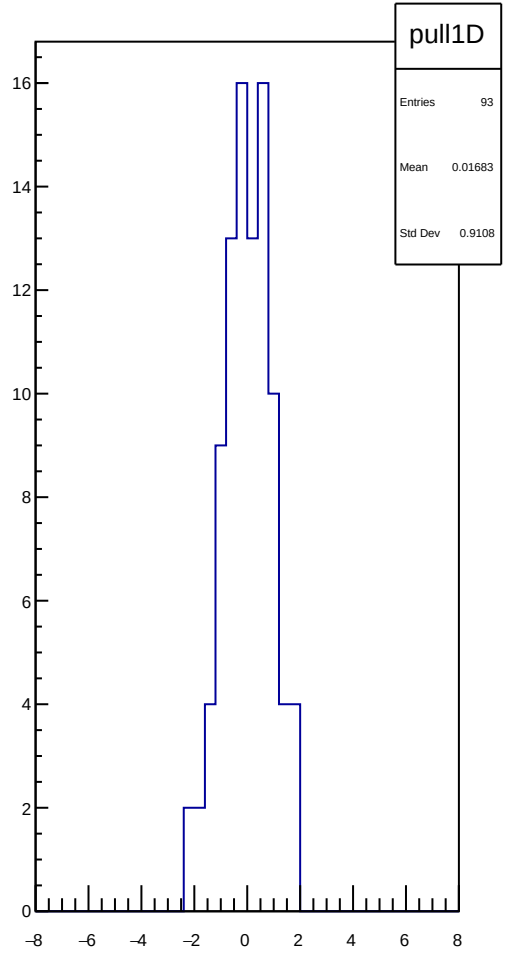

reg_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 99.11 / 92
p0 1270 ± 0.9332
1310
1300
1290
1280
1270
1260
1250
1240

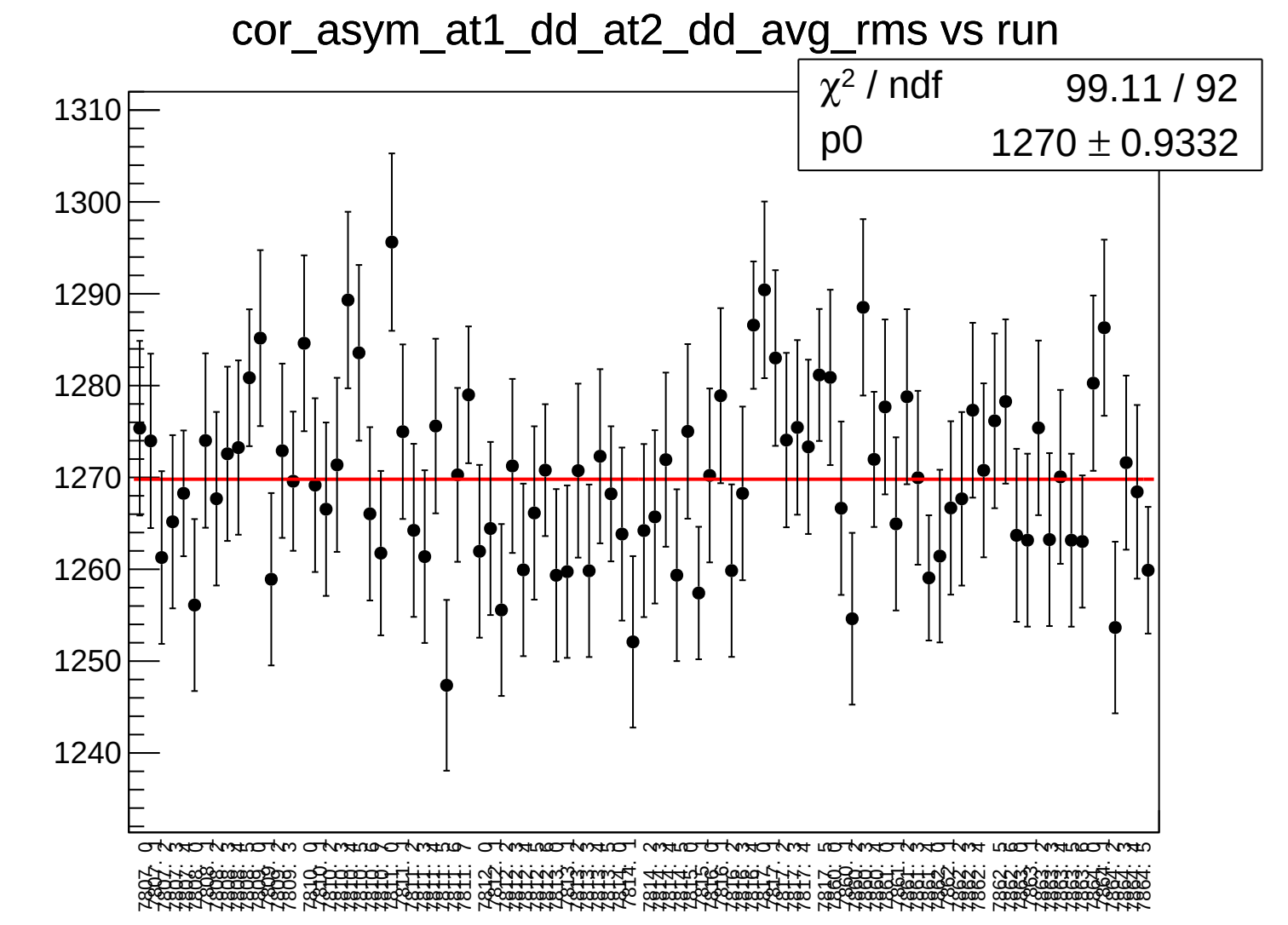

asym_at1_dd_at2_dd_avg_reg_correction_mean vs run
χ² / ndf 84.38 / 92
p0 481.4 ± 1681
pull
Entries 93
Mean −34.11
Std Dev 16.78

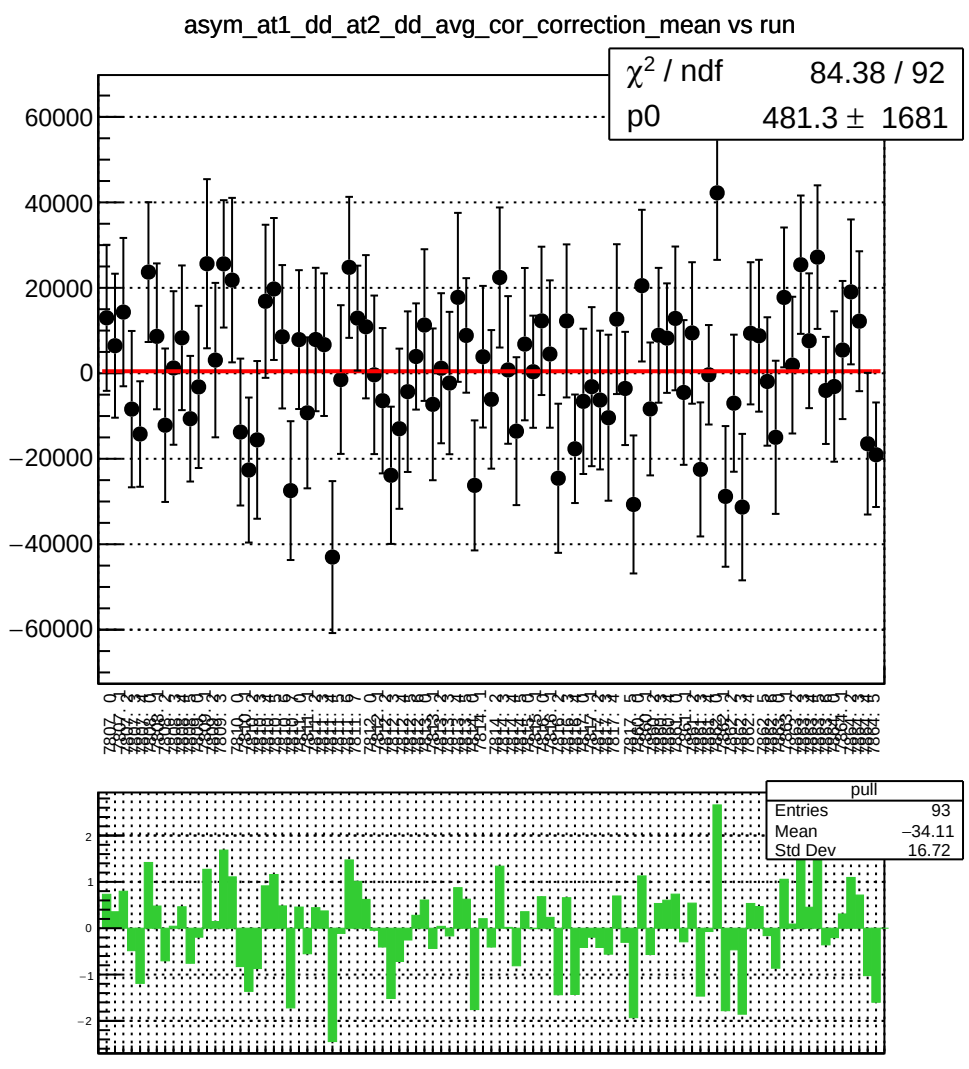

pull1D
Entries 93
Mean 0.01053
Std Dev 0.9525

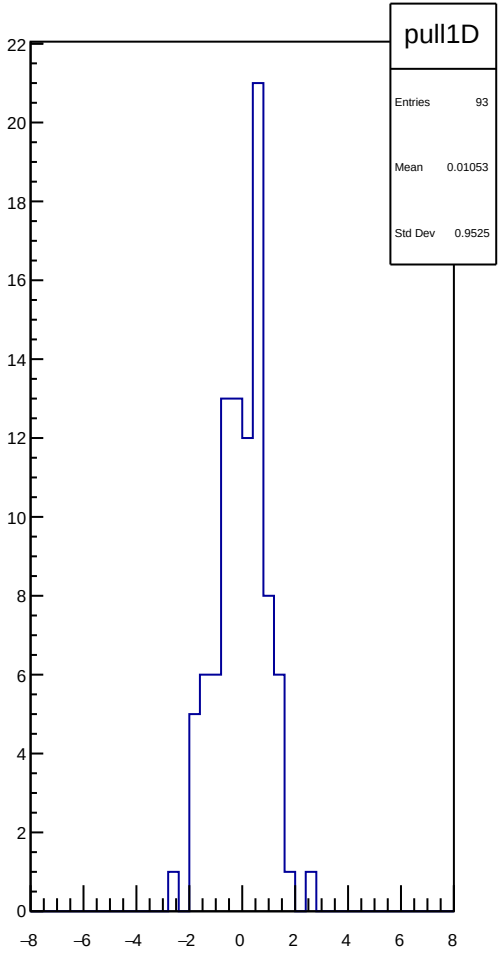

asym_at1_dd_at2_dd_avg_reg_correction_rms vs run
χ² / ndf 5517 / 92
p0 1615 ± 1.189
1900
1800
1700
1600
1500
1400

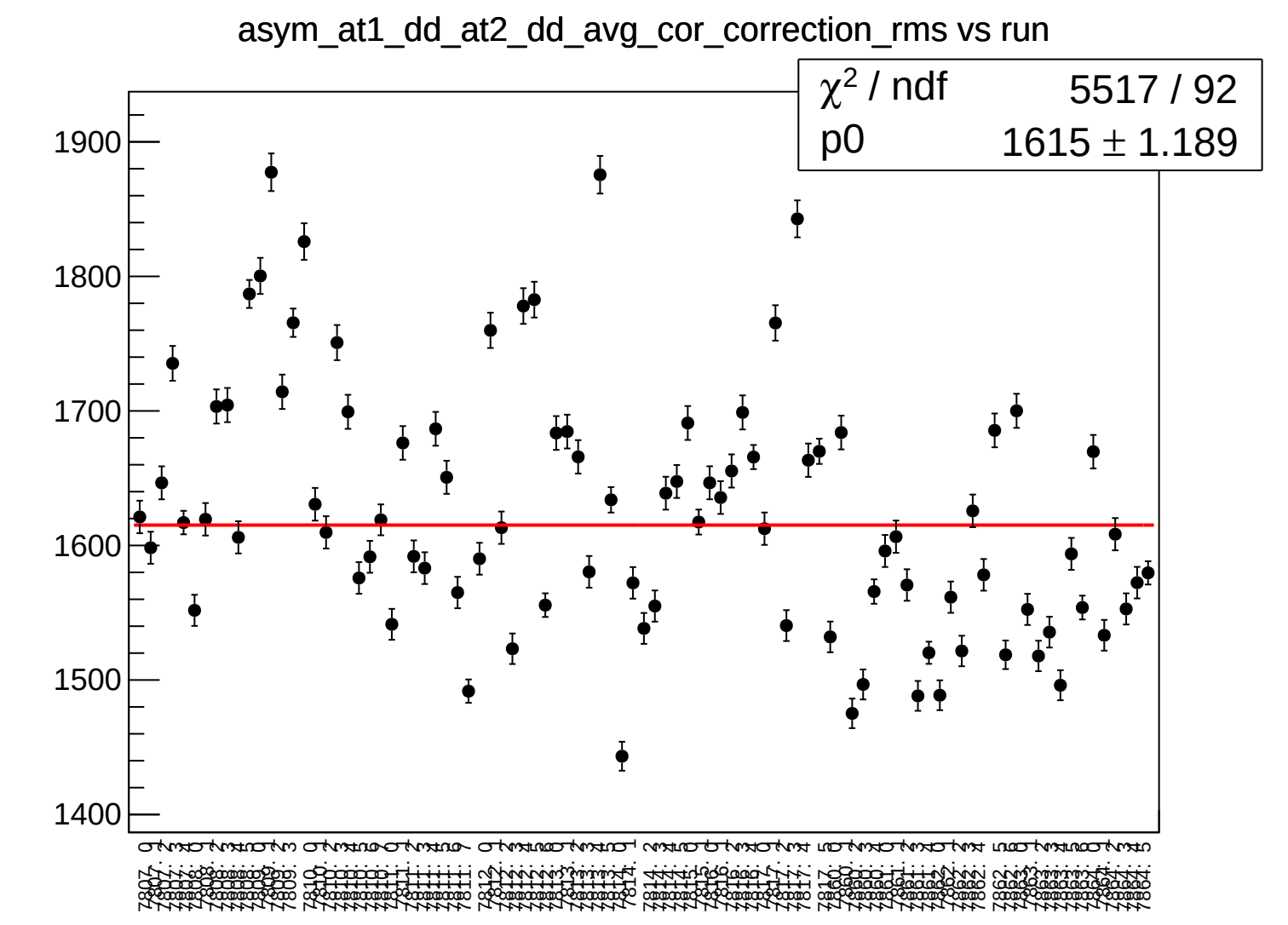

cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 77.18 / 92
p0 1075 ± 1320
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −82.77
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

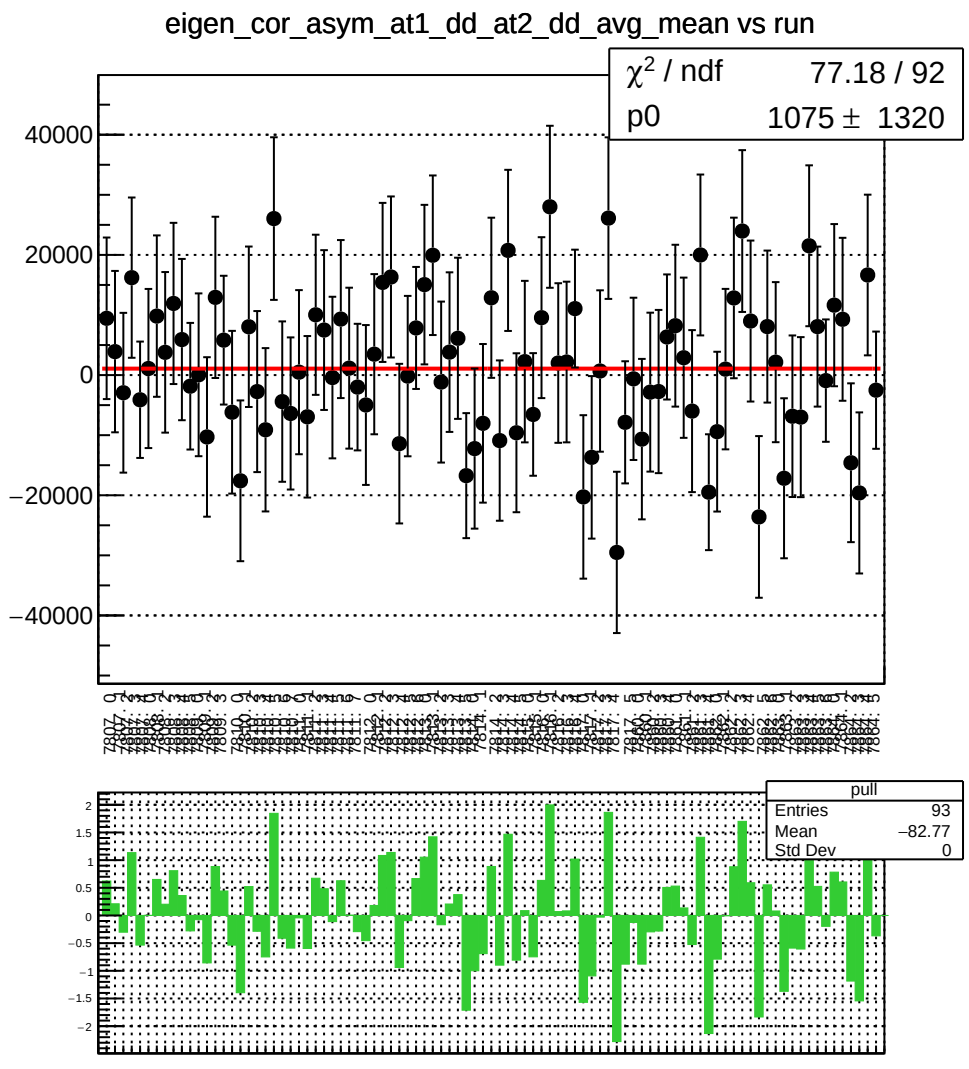

pull1D
Entries 93
Mean 0.01683
Std Dev 0.9108
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

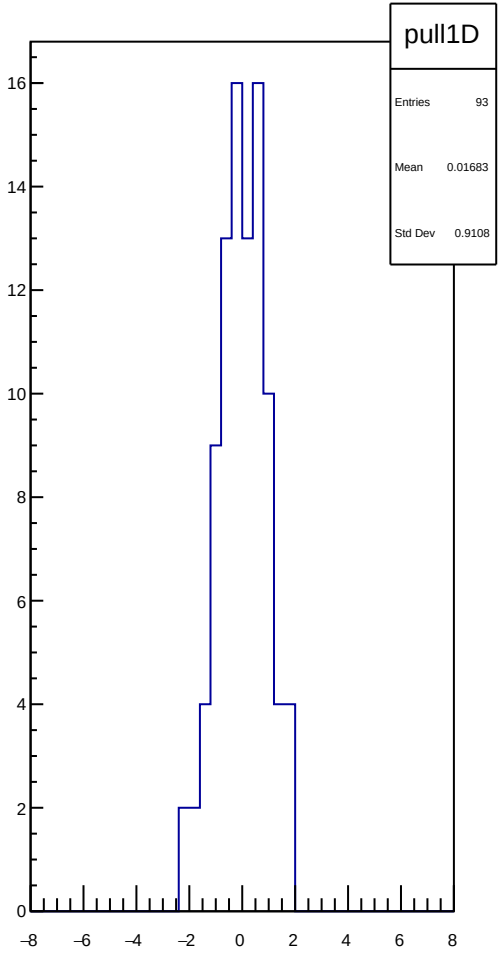

cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 99.11 / 92
p0 1270 ± 0.9332
1310
1300
1290
1280
1270
1260
1250
1240

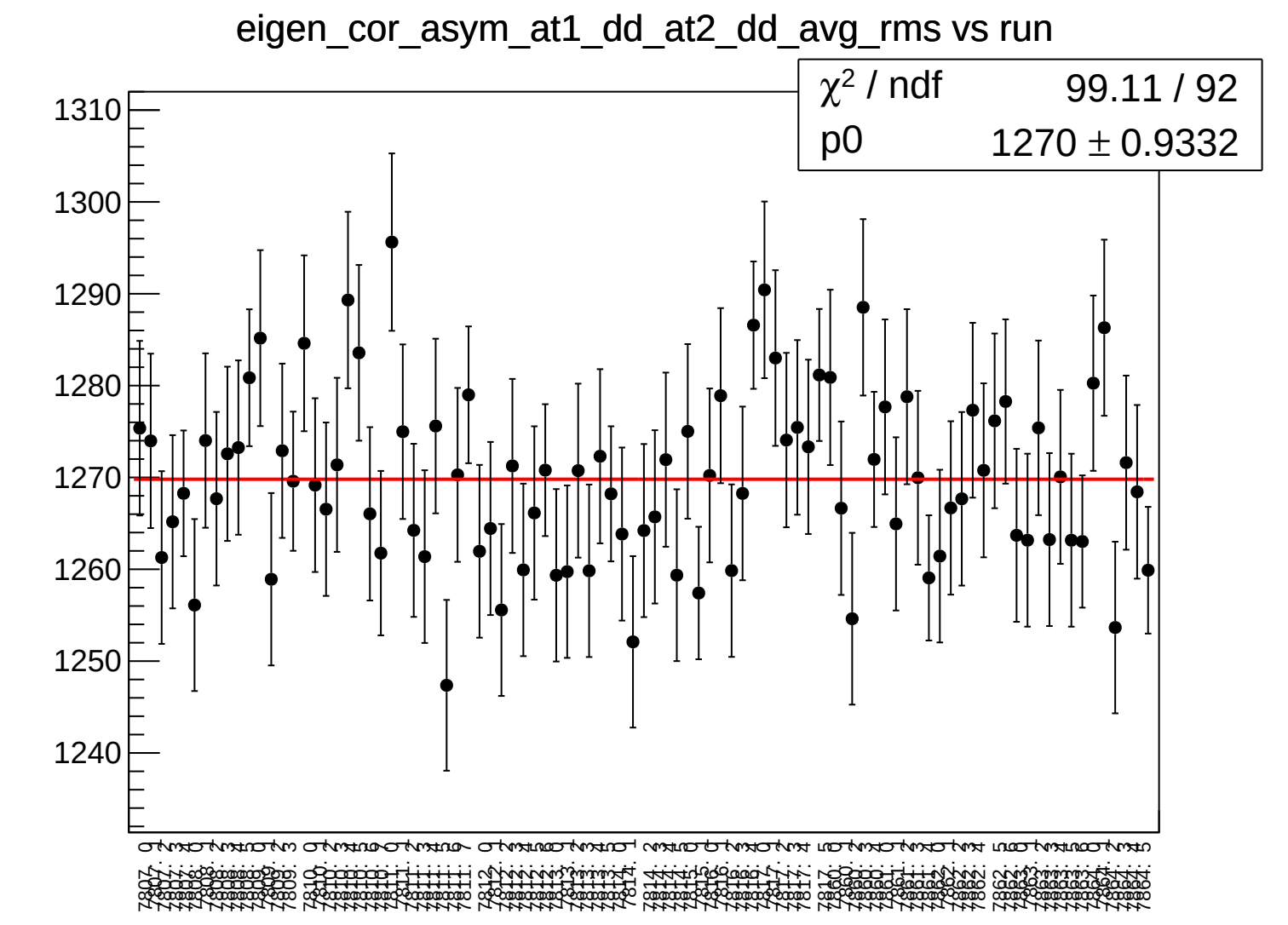

asym_at1_dd_at2_dd_avg_cor_correction_mean vs run
χ² / ndf 84.38 / 92
p0 481.3 ± 1681
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −34.11
Std Dev 16.72
2
1
0
−1
−2

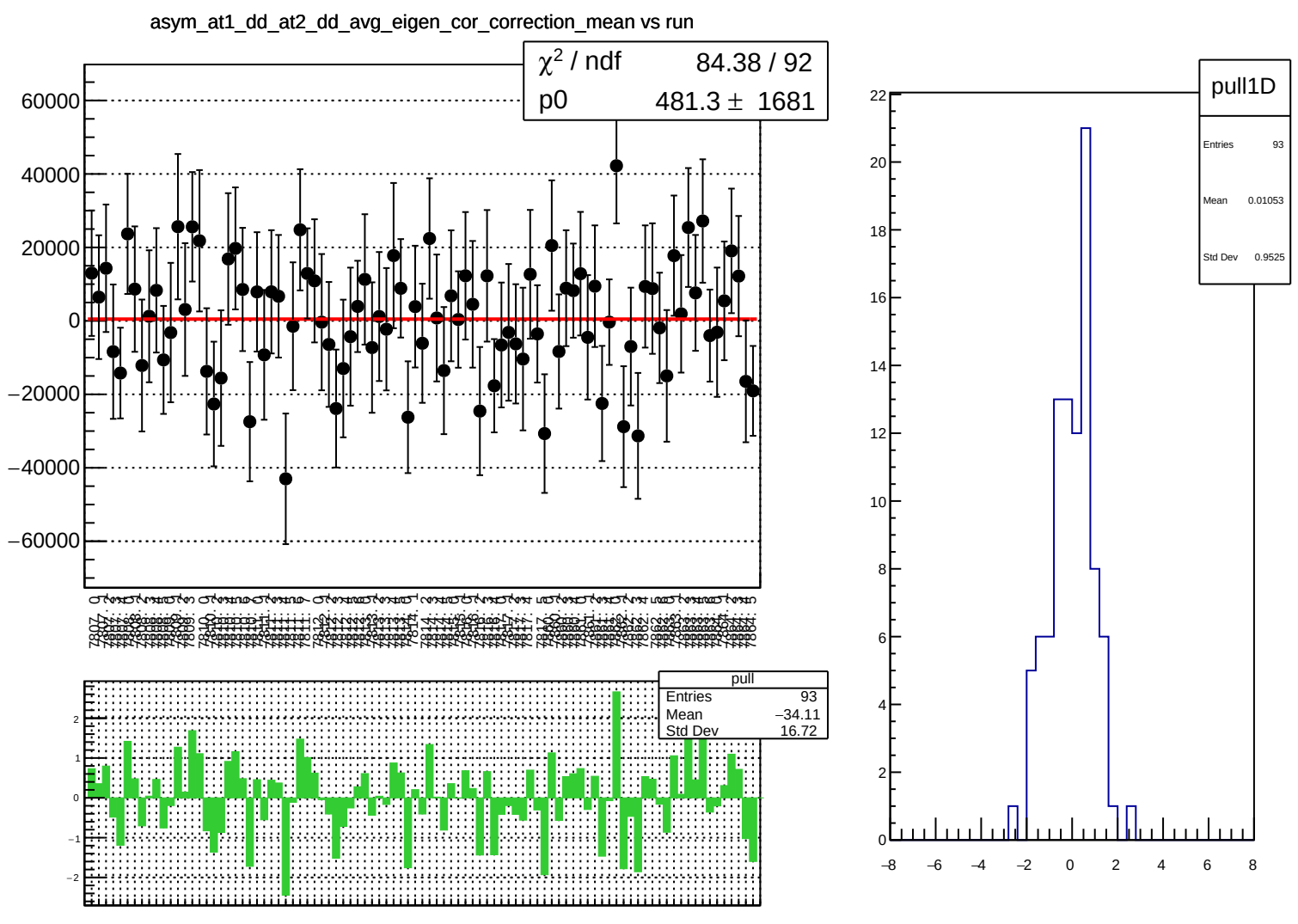

pull1D
Entries 93
Mean 0.01053
Std Dev 0.9525
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

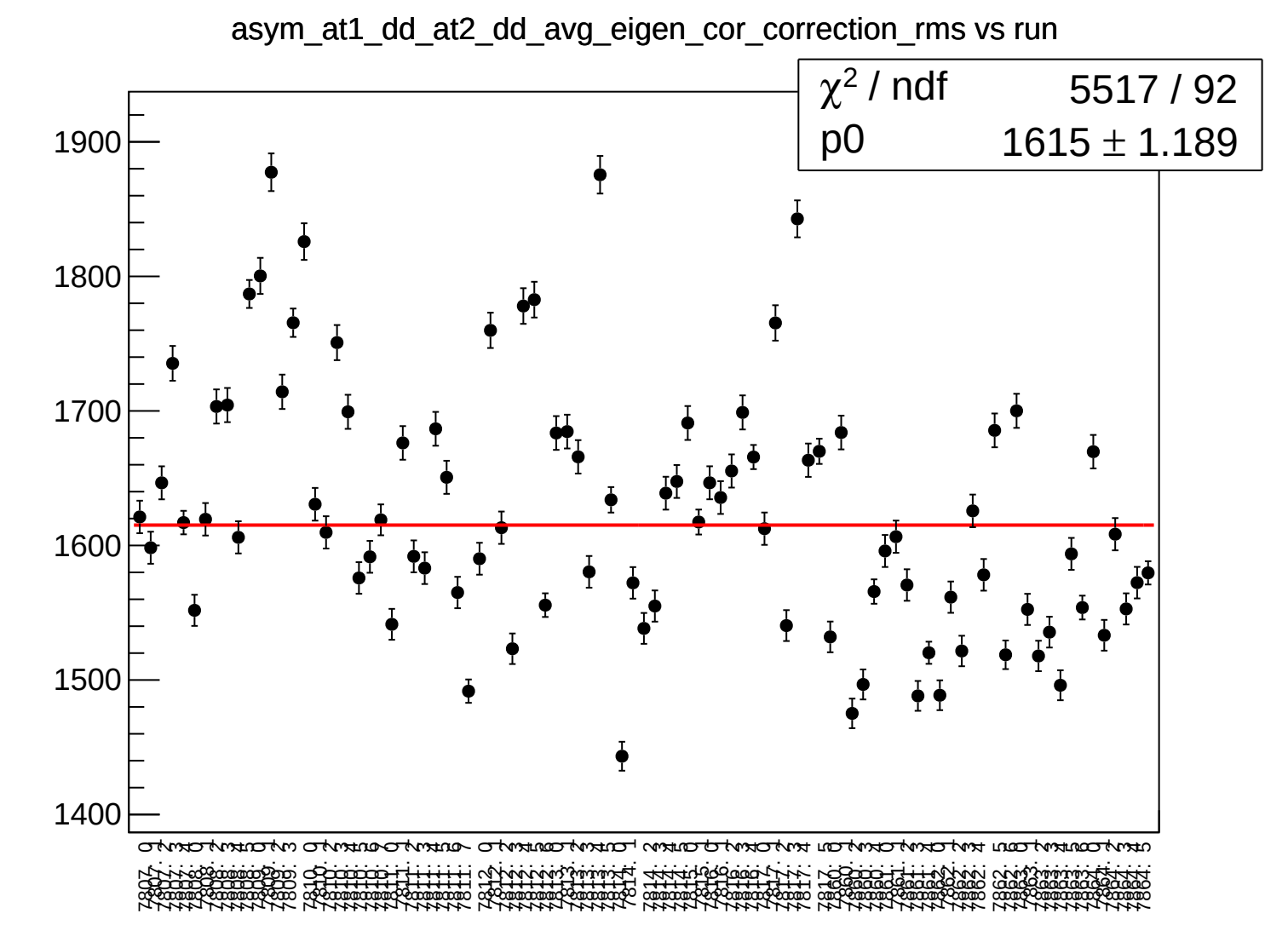

asym_at1_dd_at2_dd_avg_cor_correction_rms vs run
χ² / ndf 5517 / 92
p0 1615 ± 1.189
1900
1800
1700
1600
1500
1400

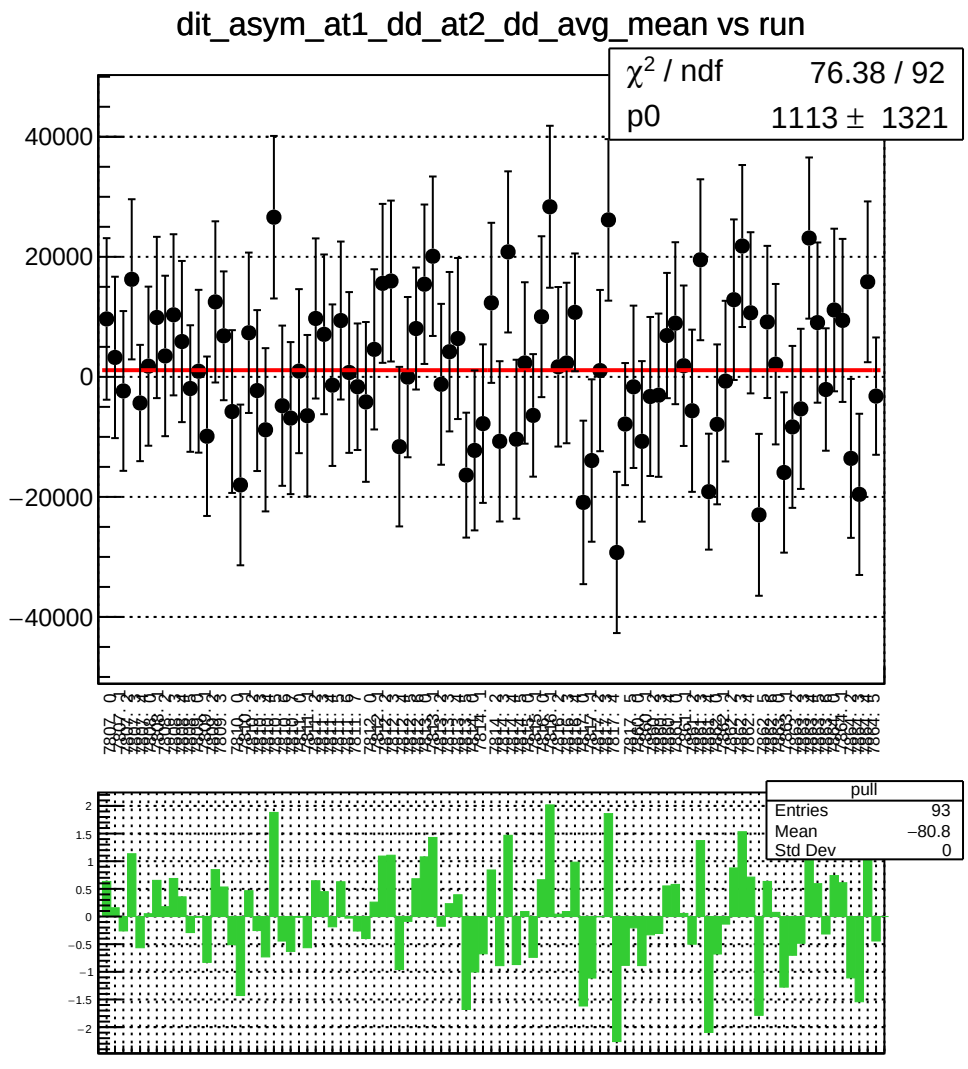

eigen_cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 77.18 / 92
p0 1075 ± 1320
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −82.77
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

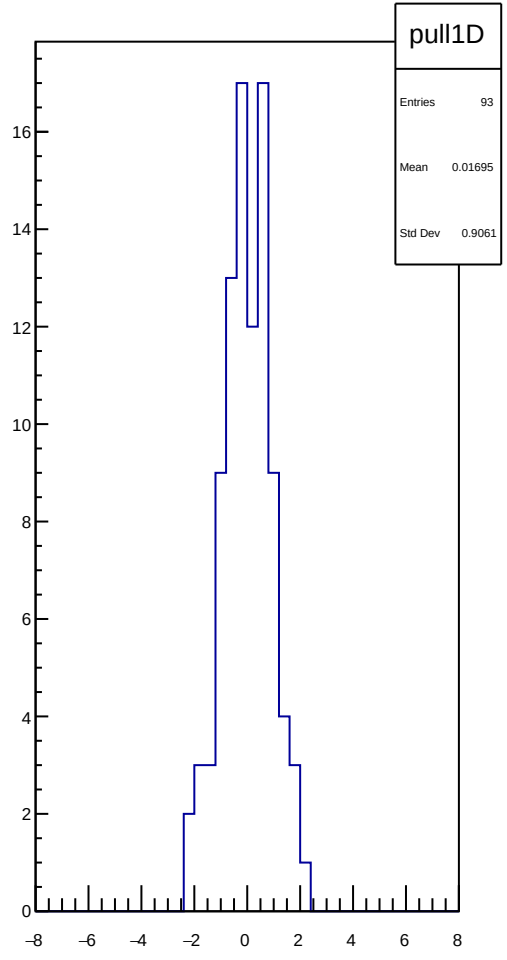

pull1D
Entries 93
Mean 0.01683
Std Dev 0.9108
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

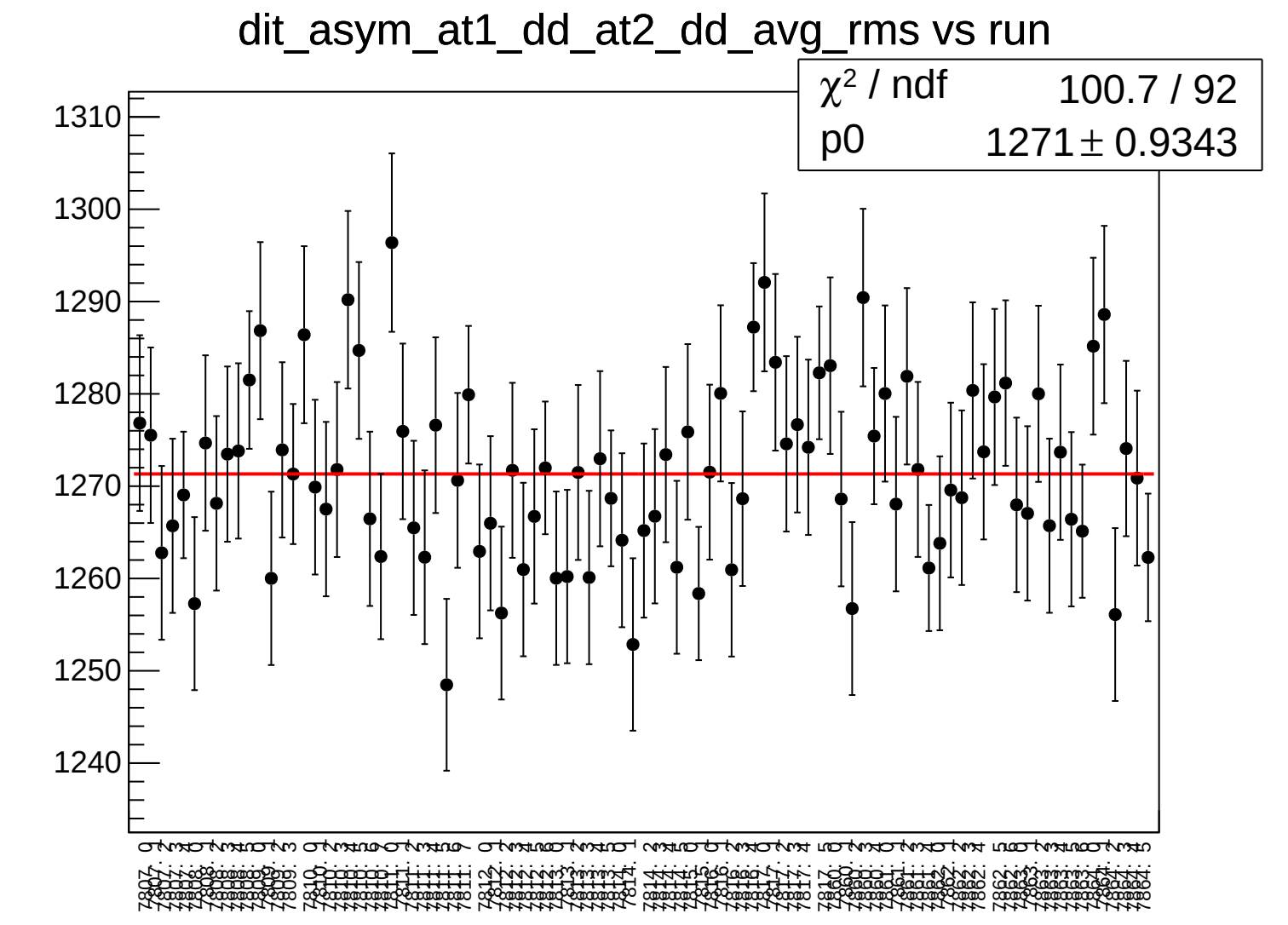

eigen_cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 99.11 / 92
p0 1270 ± 0.9332
1310
1300
1290
1280
1270
1260
1250
1240

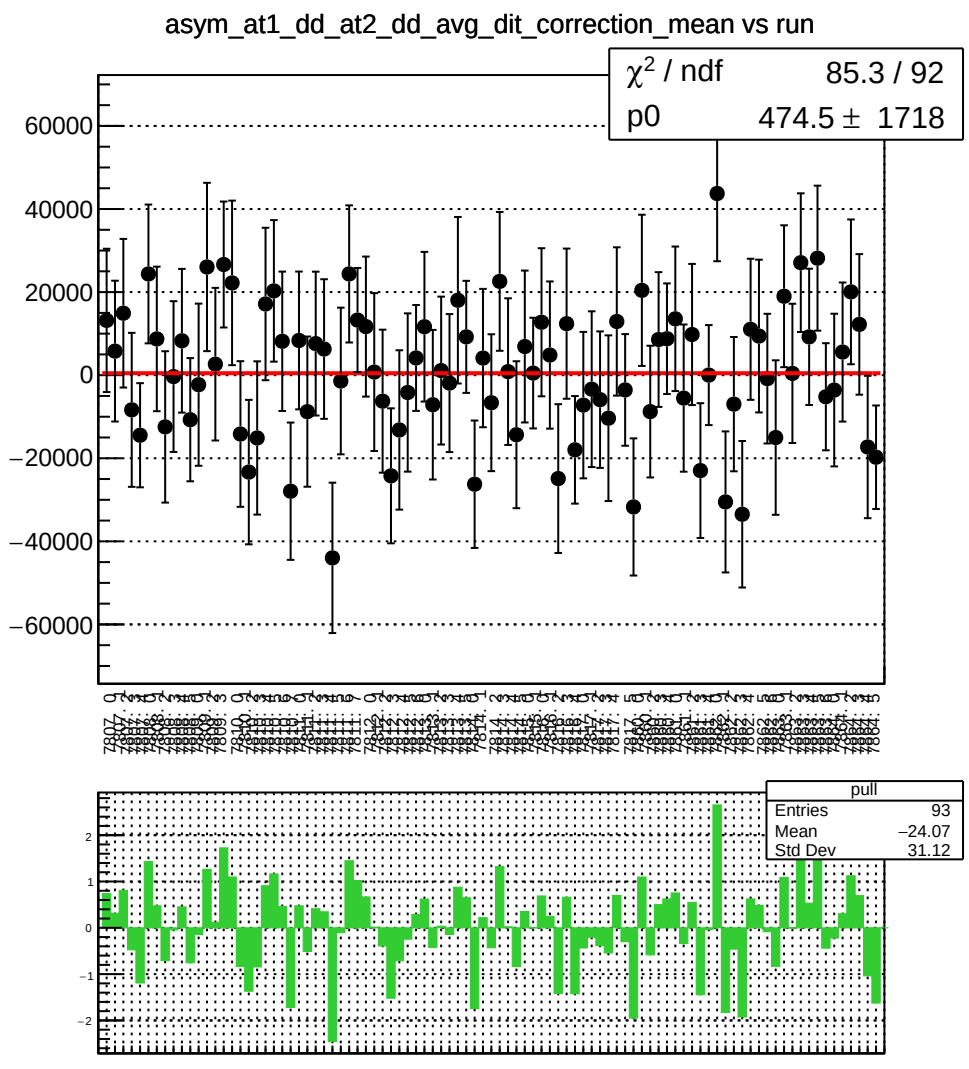

asym_at1_dd_at2_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 84.38 / 92
p0 481.3 ± 1681
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −34.11
Std Dev 16.72
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.01053
Std Dev 0.9525
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

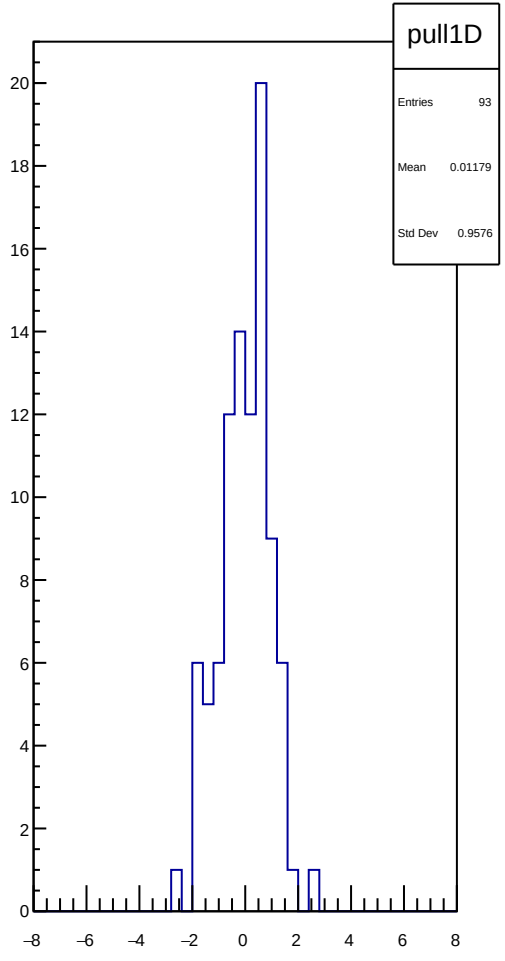

asym_at1_dd_at2_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 5517 / 92
p0 1615 ± 1.189
1900
1800
1700
1600
1500
1400

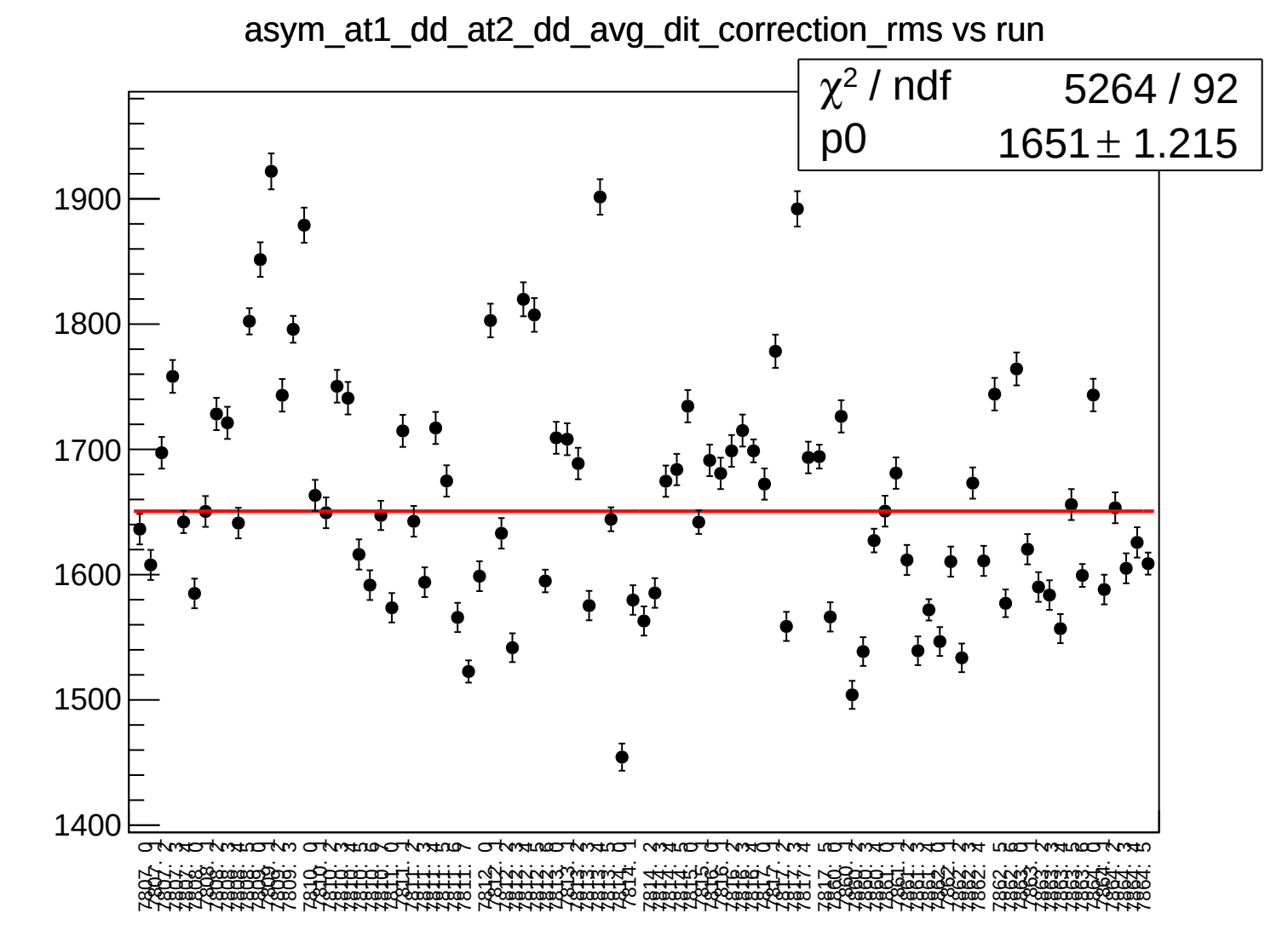

dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 76.38 / 92
p0 1113 ± 1321
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −80.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

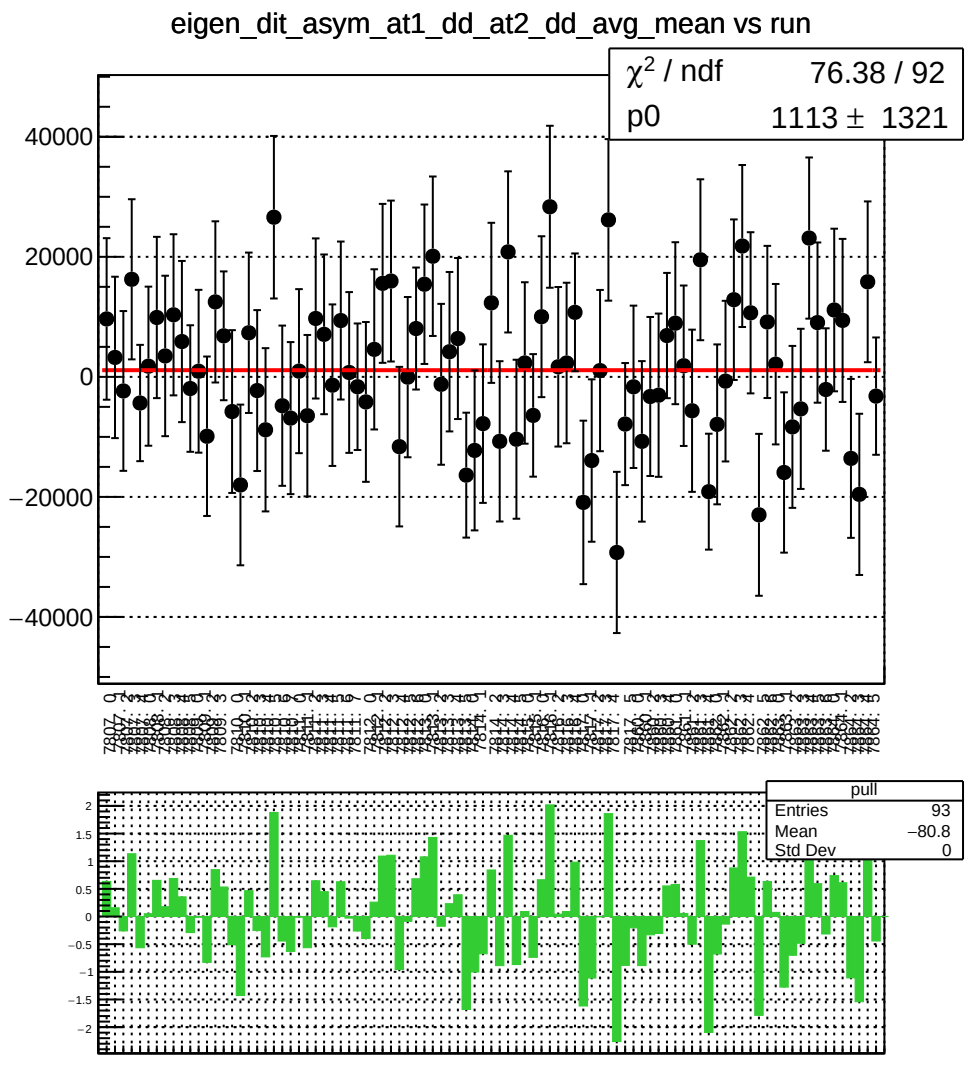

pull1D
Entries 93
Mean 0.01695
Std Dev 0.9061
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

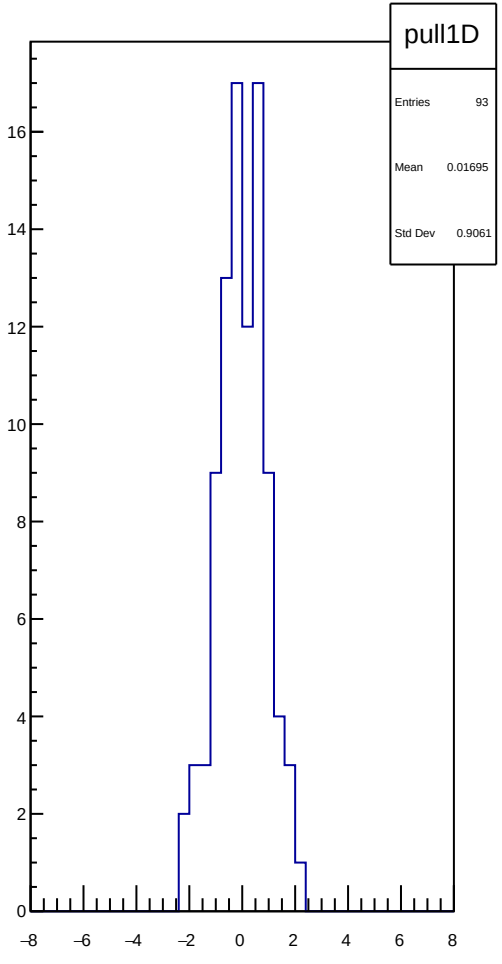

dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 100.7 / 92
p0 1271 ± 0.9343
1310
1300
1290
1280
1270
1260
1250
1240

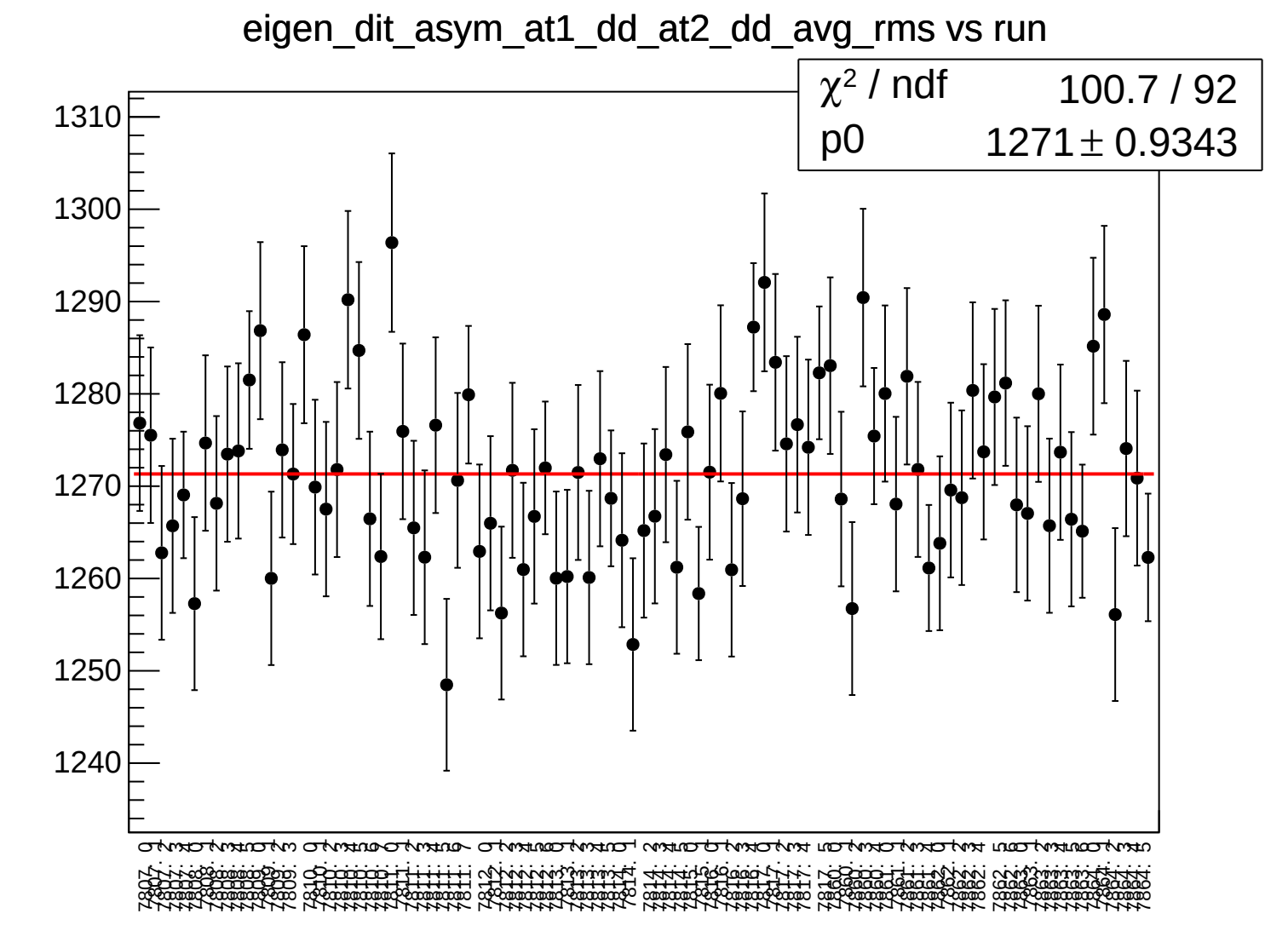

asym_at1_dd_at2_dd_avg_dit_correction_mean vs run
χ² / ndf 85.3 / 92
p0 474.5 ± 1718
pull
Entries 93
Mean −24.07
Std Dev 31.12

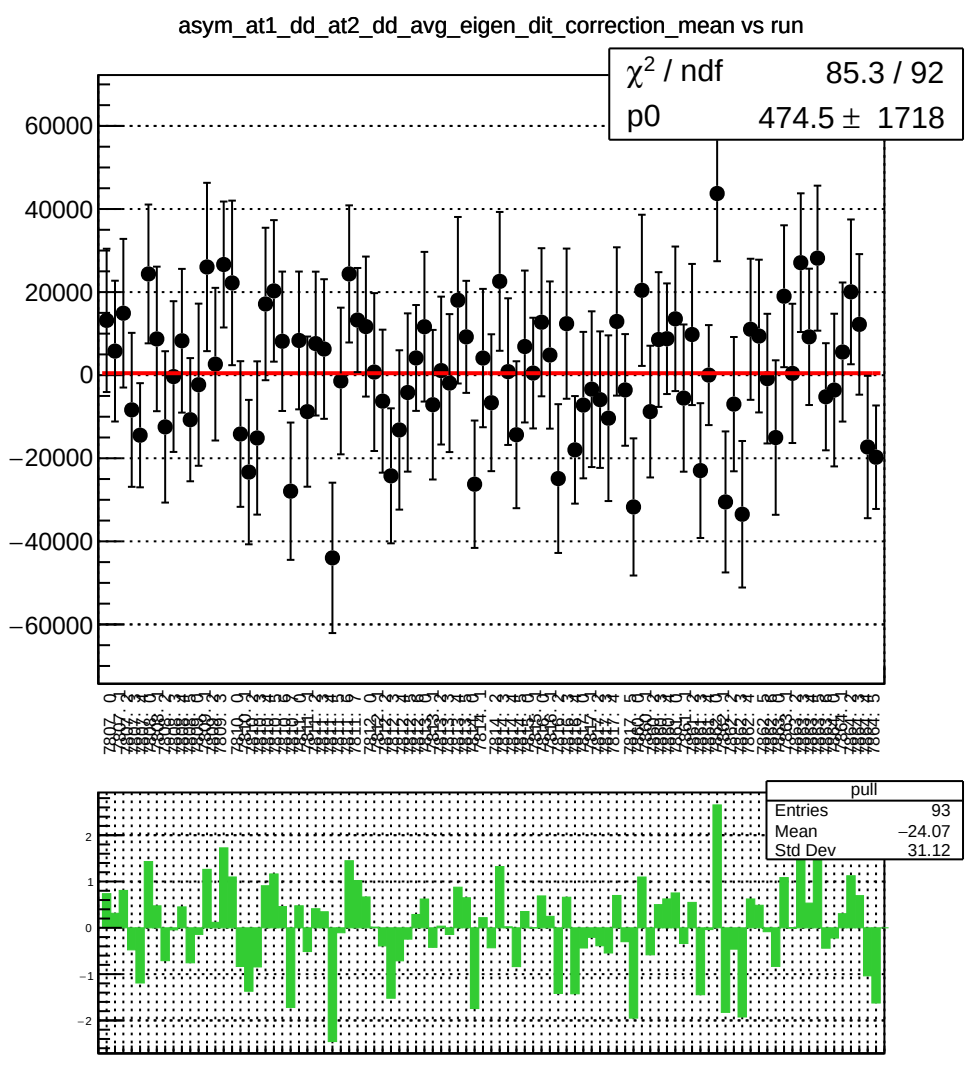

pull1D
Entries 93
Mean 0.01179
Std Dev 0.9576

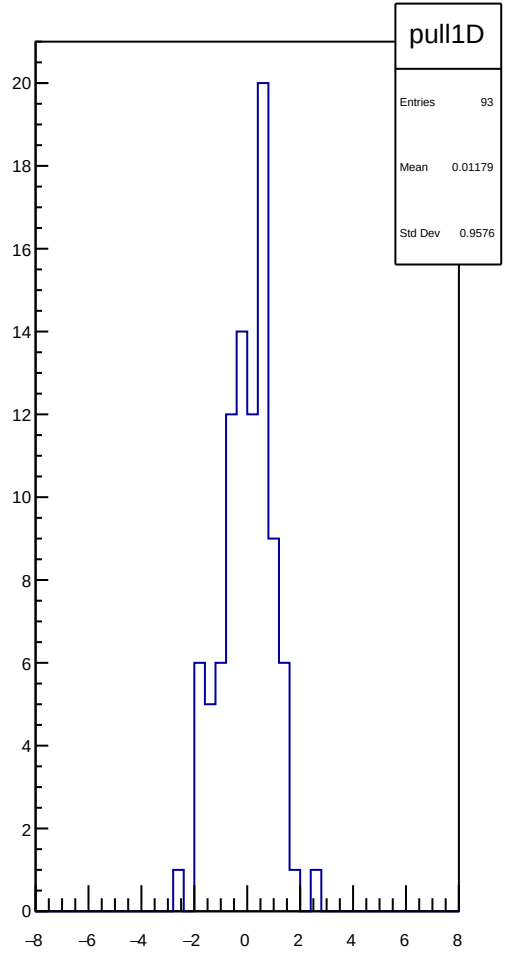

asym_at1_dd_at2_dd_avg_dit_correction_rms vs run
χ² / ndf 5264 / 92
p0 1651 ± 1.215
1900
1800
1700
1600
1500
1400

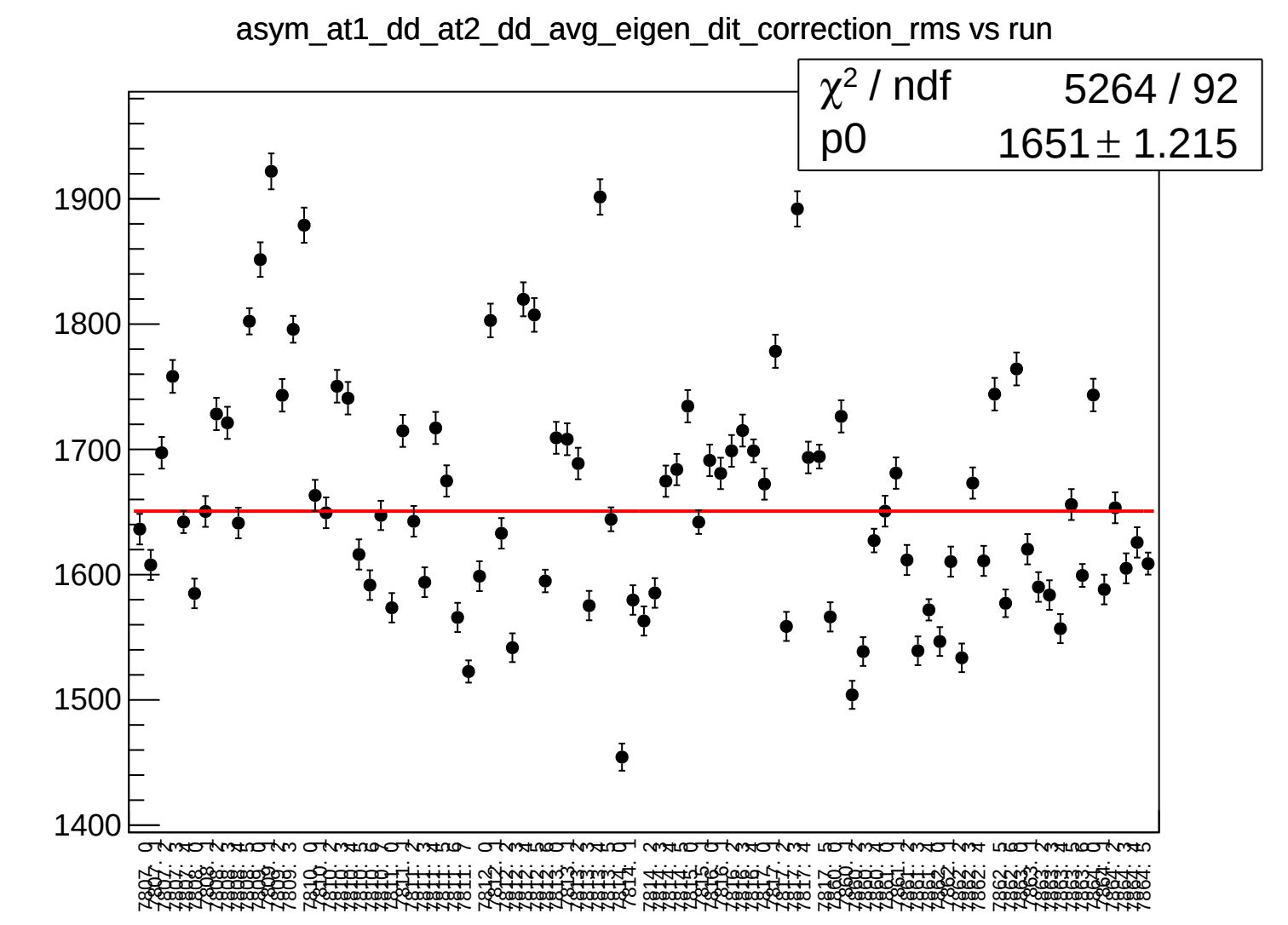

eigen_dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 76.38 / 92
p0 1113 ± 1321
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −80.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

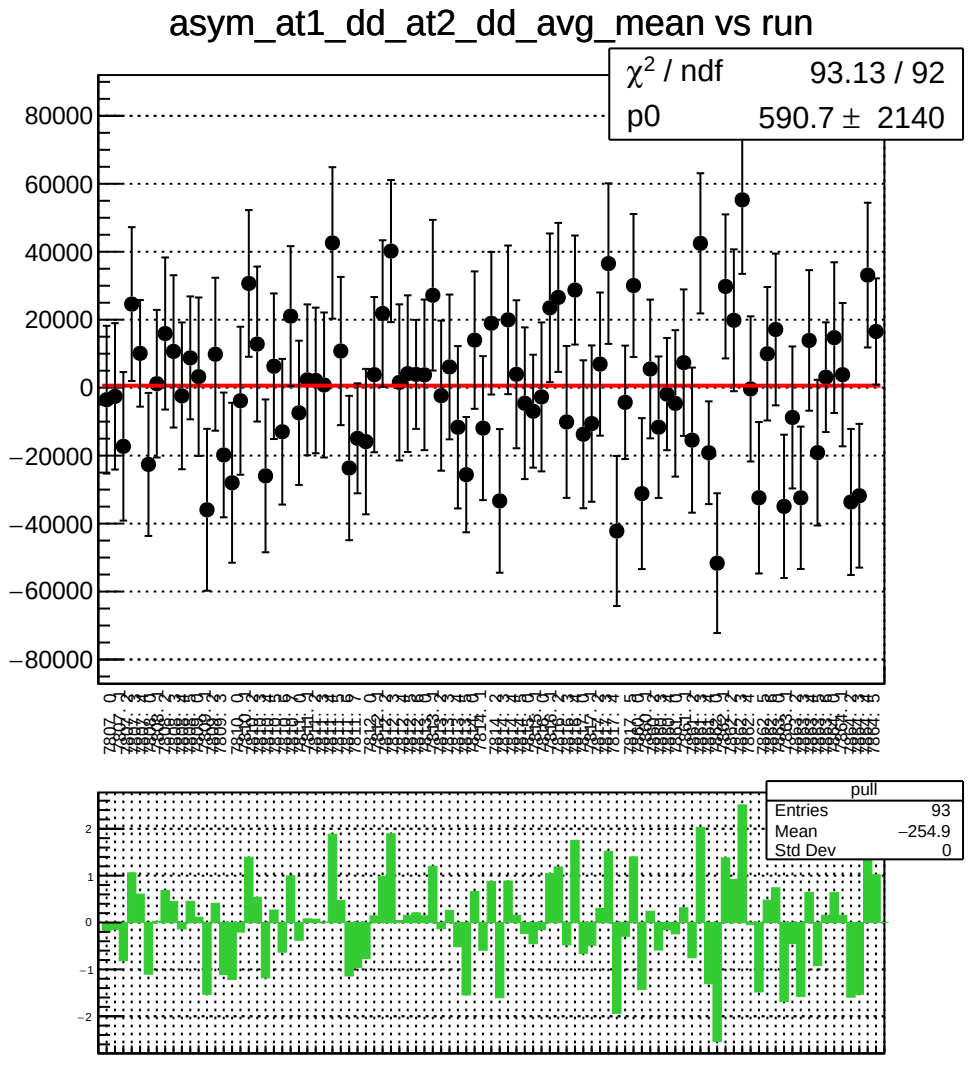

pull1D
Entries 93
Mean 0.01695
Std Dev 0.9061
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

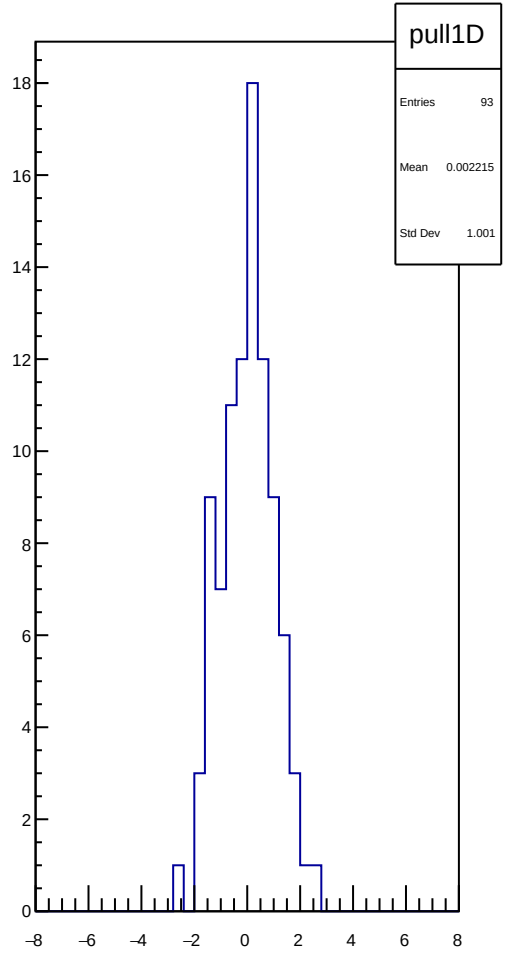

eigen_dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 100.7 / 92
p0 1271 ± 0.9343
1310
1300
1290
1280
1270
1260
1250
1240

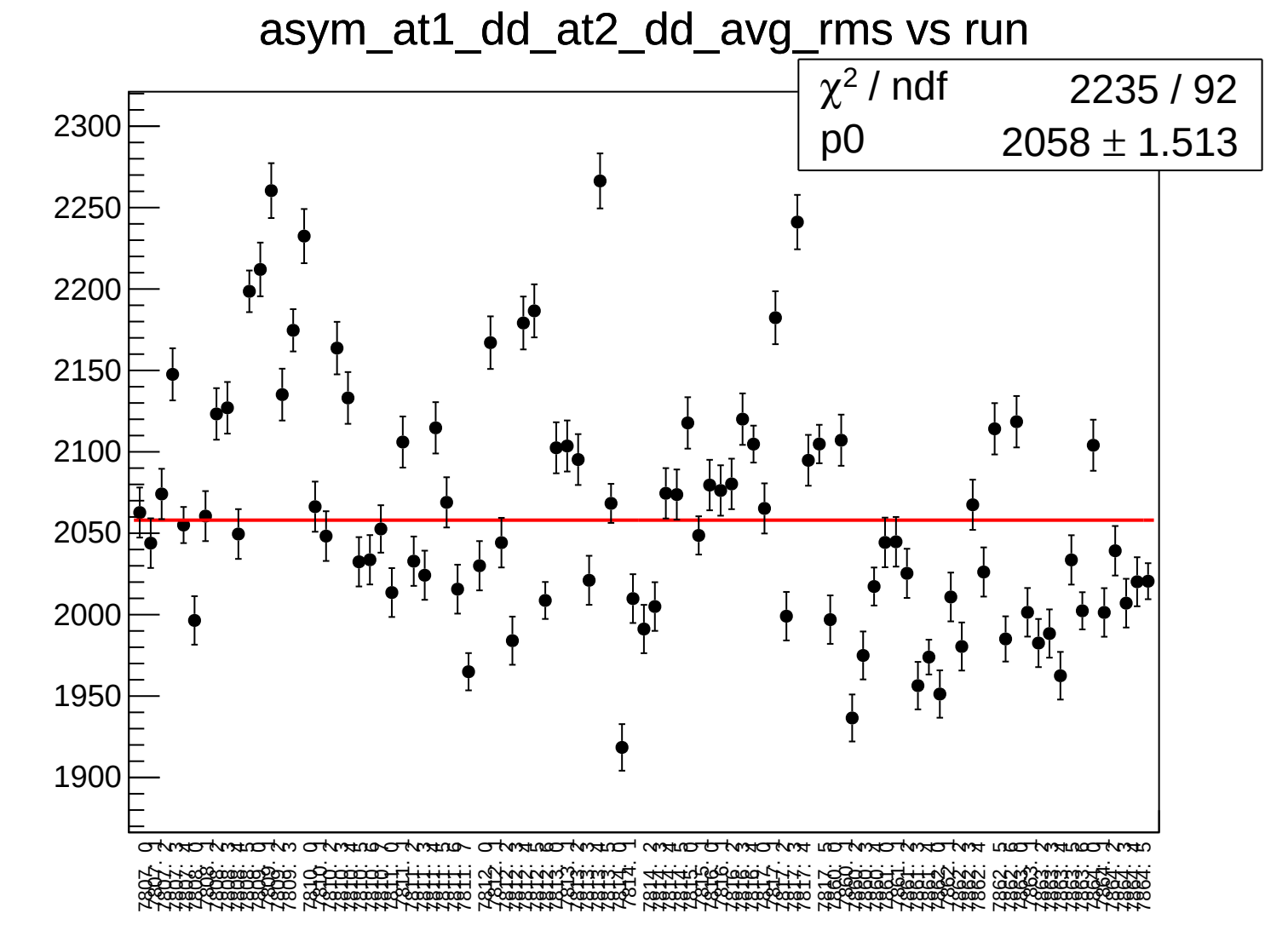

asym_at1_dd_at2_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 85.3 / 92
p0 474.5 ± 1718
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −24.07
Std Dev 31.12
2
1
0
−1
−2

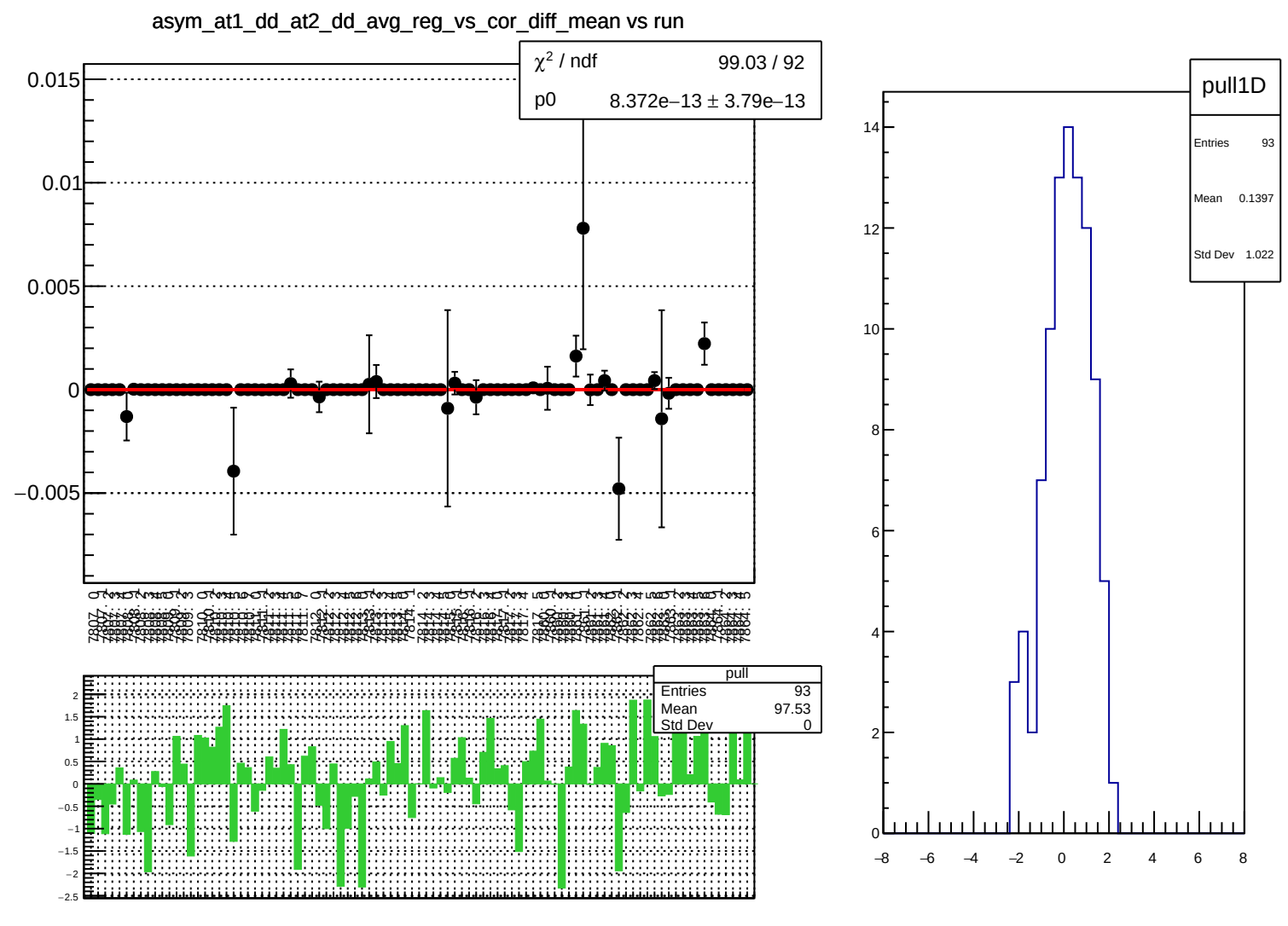

pull1D
Entries 93
Mean 0.01179
Std Dev 0.9576
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

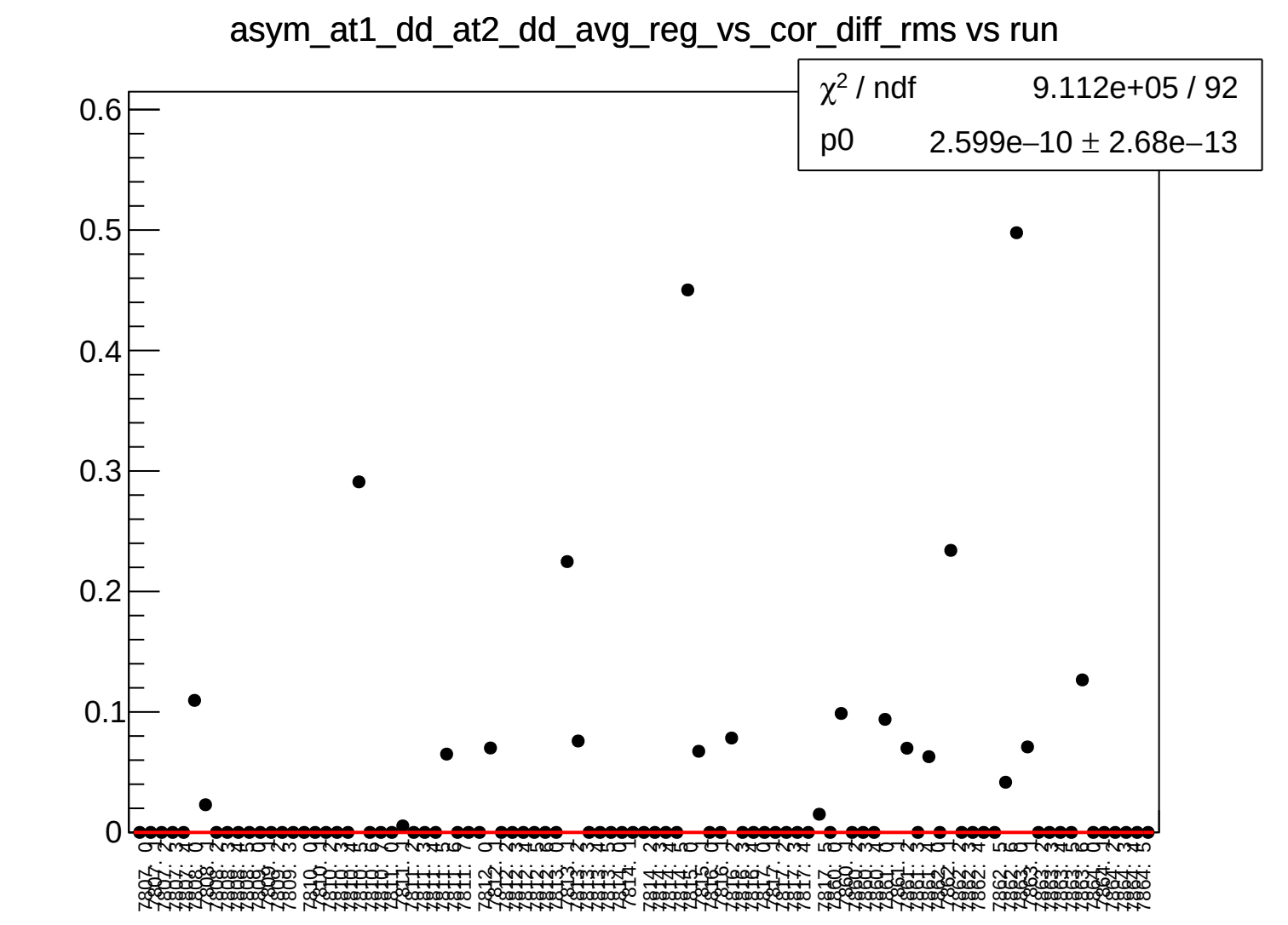

asym_at1_dd_at2_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 5264 / 92
p0 1651 ± 1.215
1900
1800
1700
1600
1500
1400

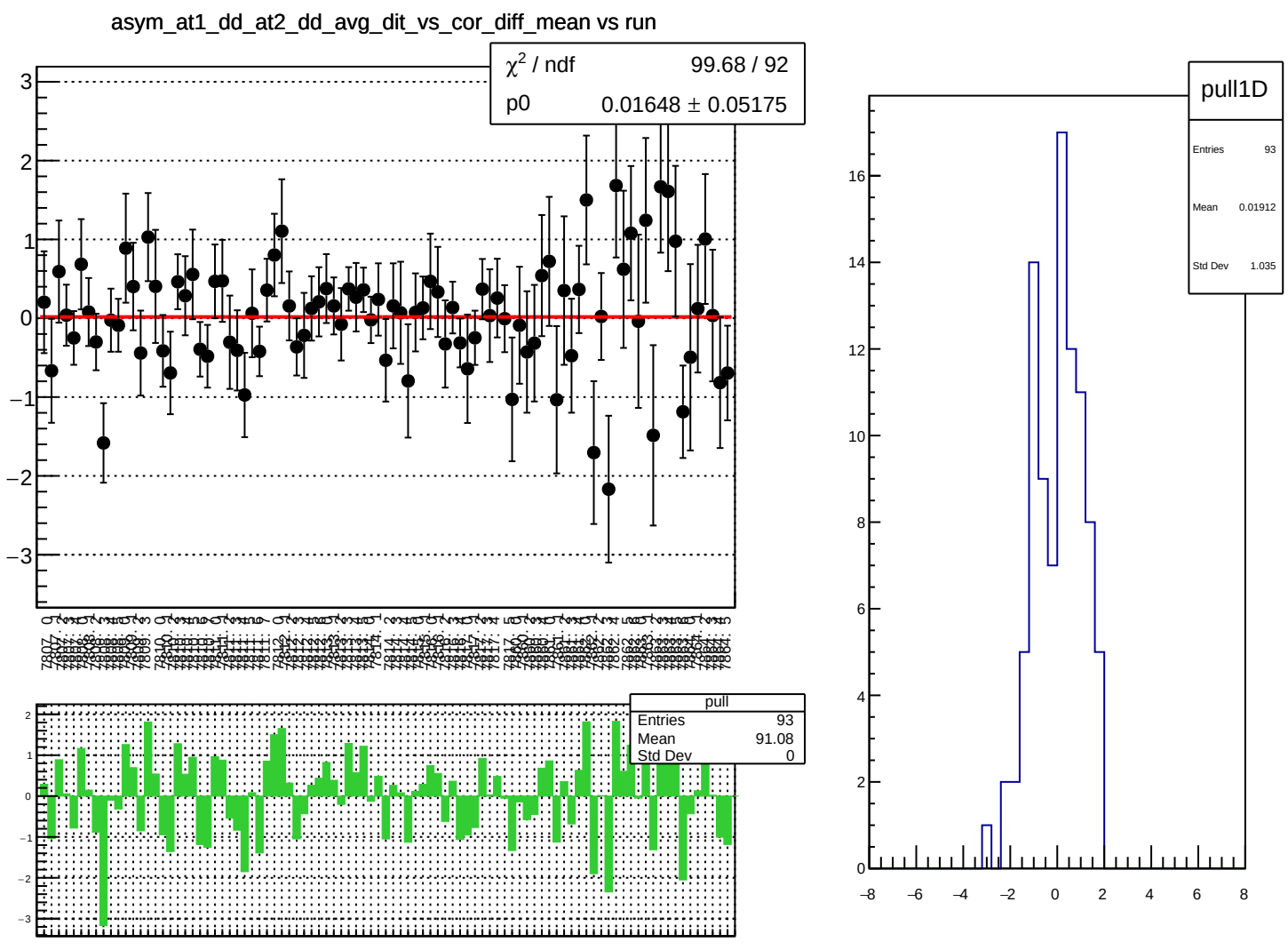

asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 93.13 / 92
p0 590.7 ± 2140
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean −254.9
Std Dev 0
2
1
0
−1
−2

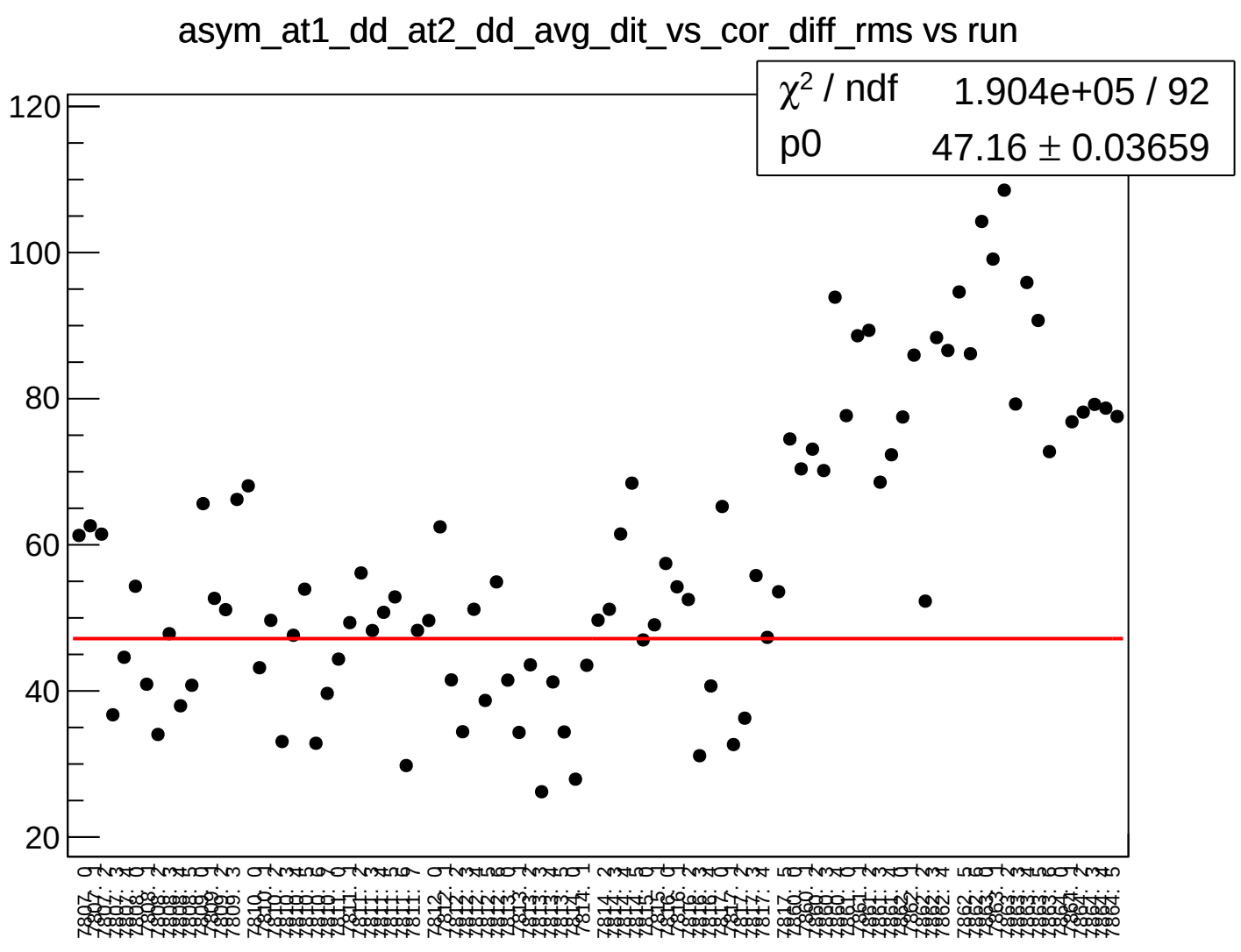

pull1D
Entries 93
Mean 0.002215
Std Dev 1.001
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

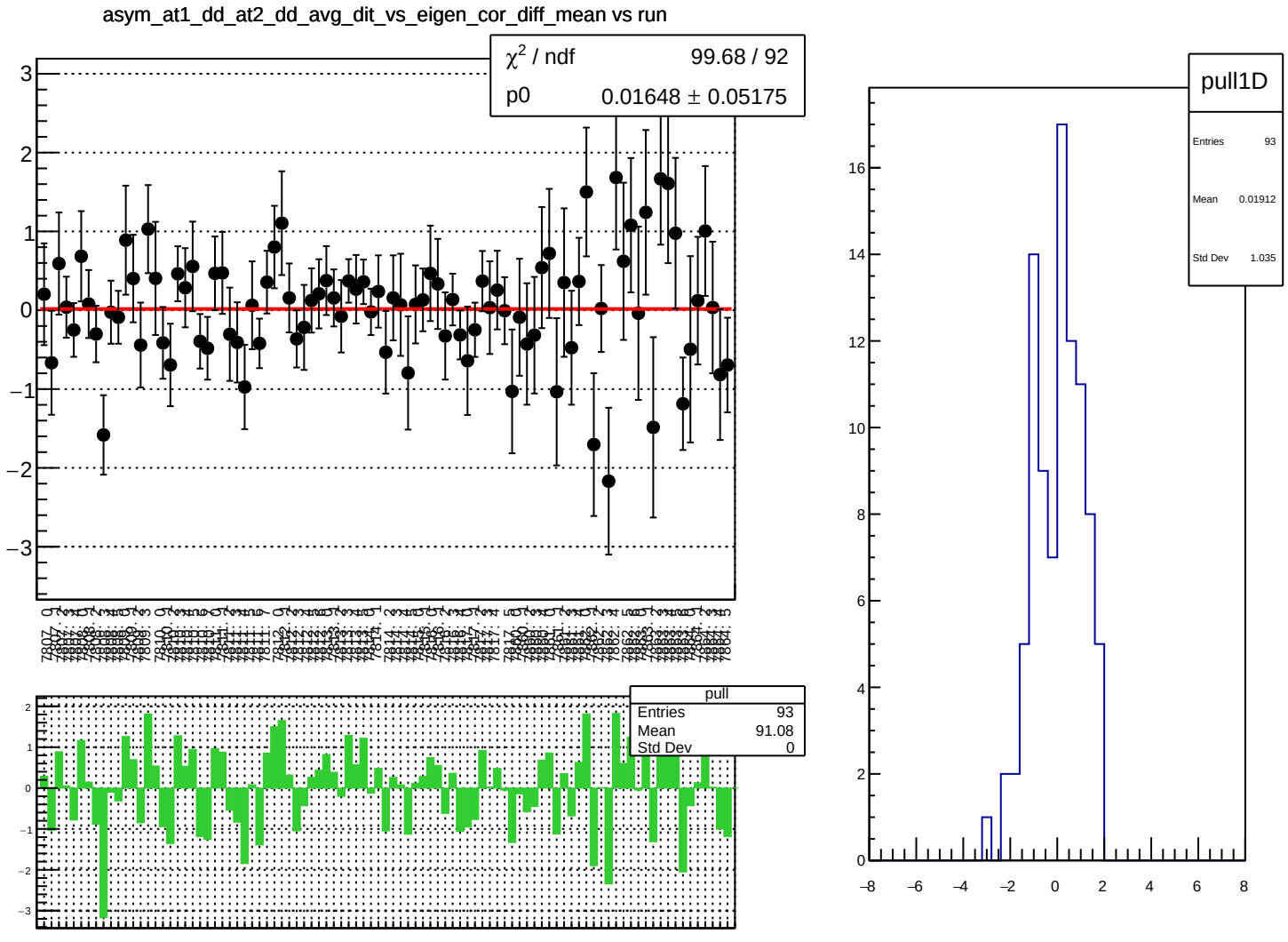

asym_at1_dd_at2_dd_avg_rms vs run
χ^2 / ndf 2235 / 92
p0 2058 ± 1.513
2300
2250
2200
2150
2100
2050
2000
1950
1900

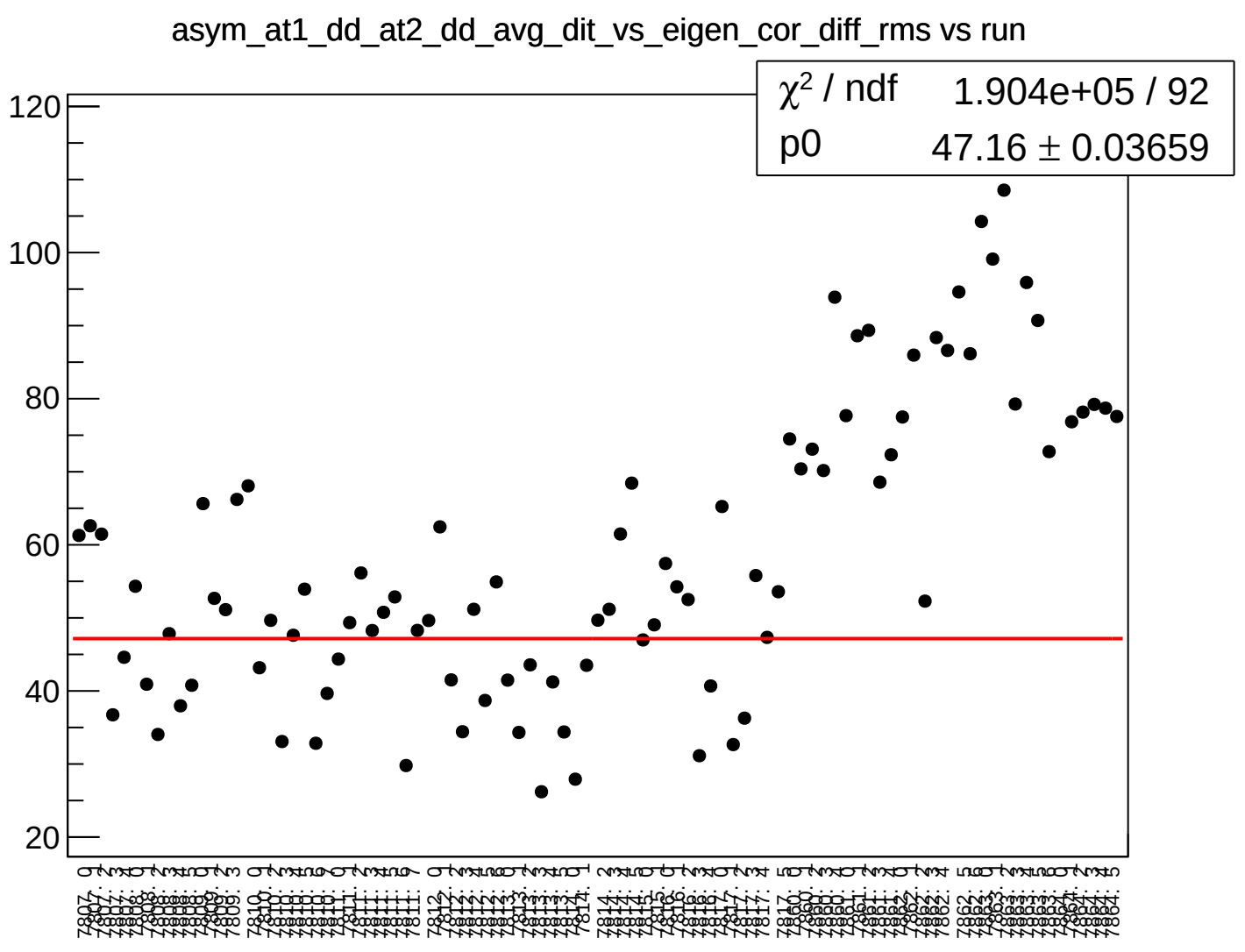

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 99.03 / 92
p0 8.372e−13 ± 3.79e−13
0.015
0.01
0.005
0
−0.005
pull
Entries 93
Mean 97.53
Std Dev 0
pull1D
Entries 93
Mean 0.1397
Std Dev 1.022

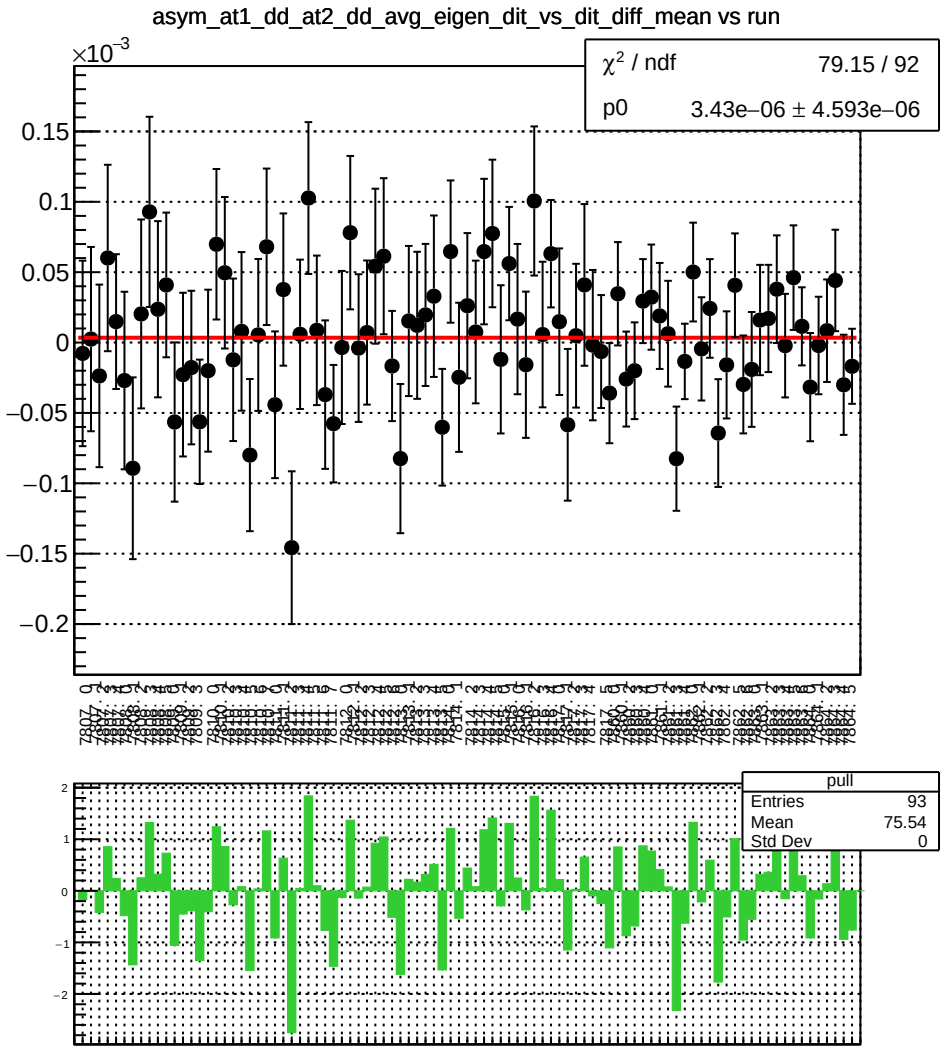

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.112e+05 / 92
p0 2.599e−10 ± 2.68e−13
0.6
0.5
0.4
0.3
0.2
0.1
0

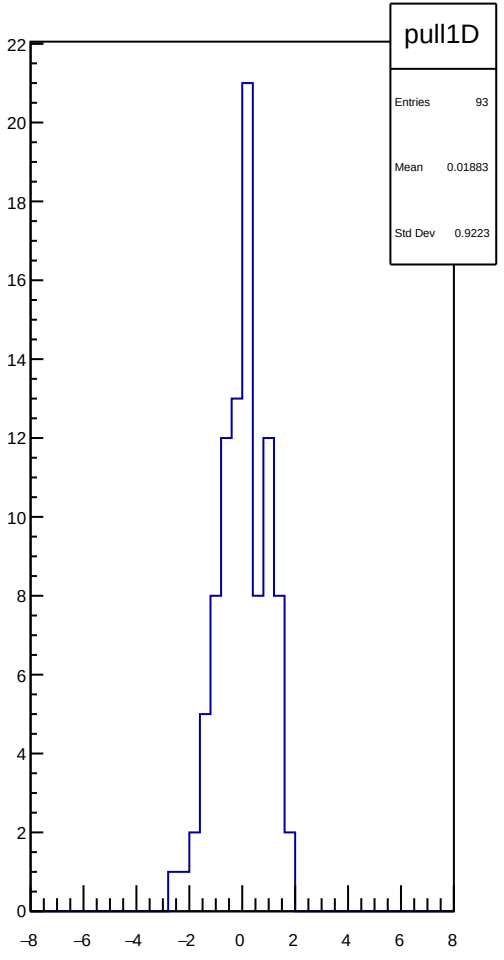

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 99.68 / 92
p0 0.01648 ± 0.05175
pull
Entries 93
Mean 91.08
Std Dev 0
pull1D
Entries 93
Mean 0.01912
Std Dev 1.035

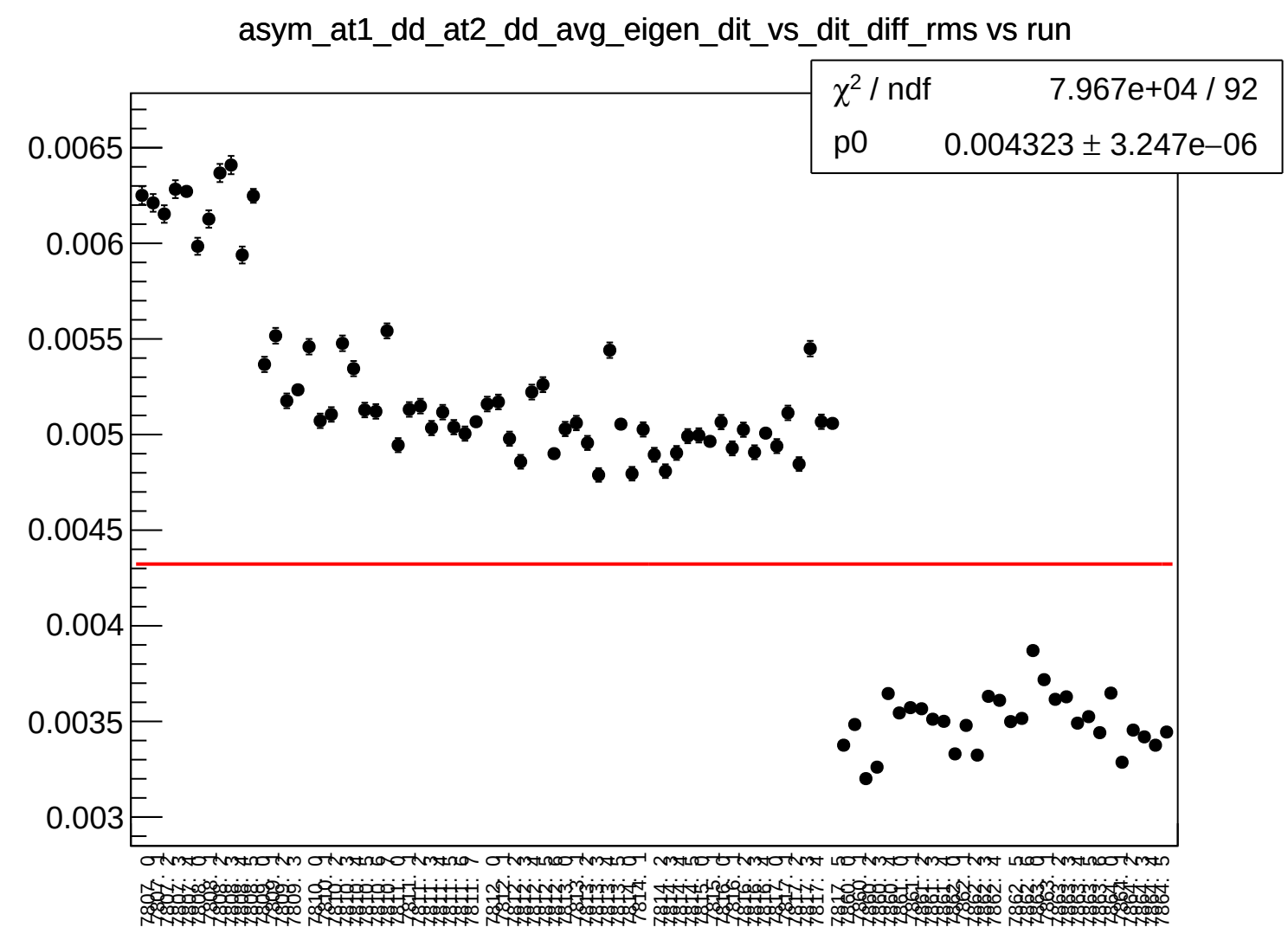

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.904e+05 / 92
p0 47.16 ± 0.03659
120
100
80
60
40
20

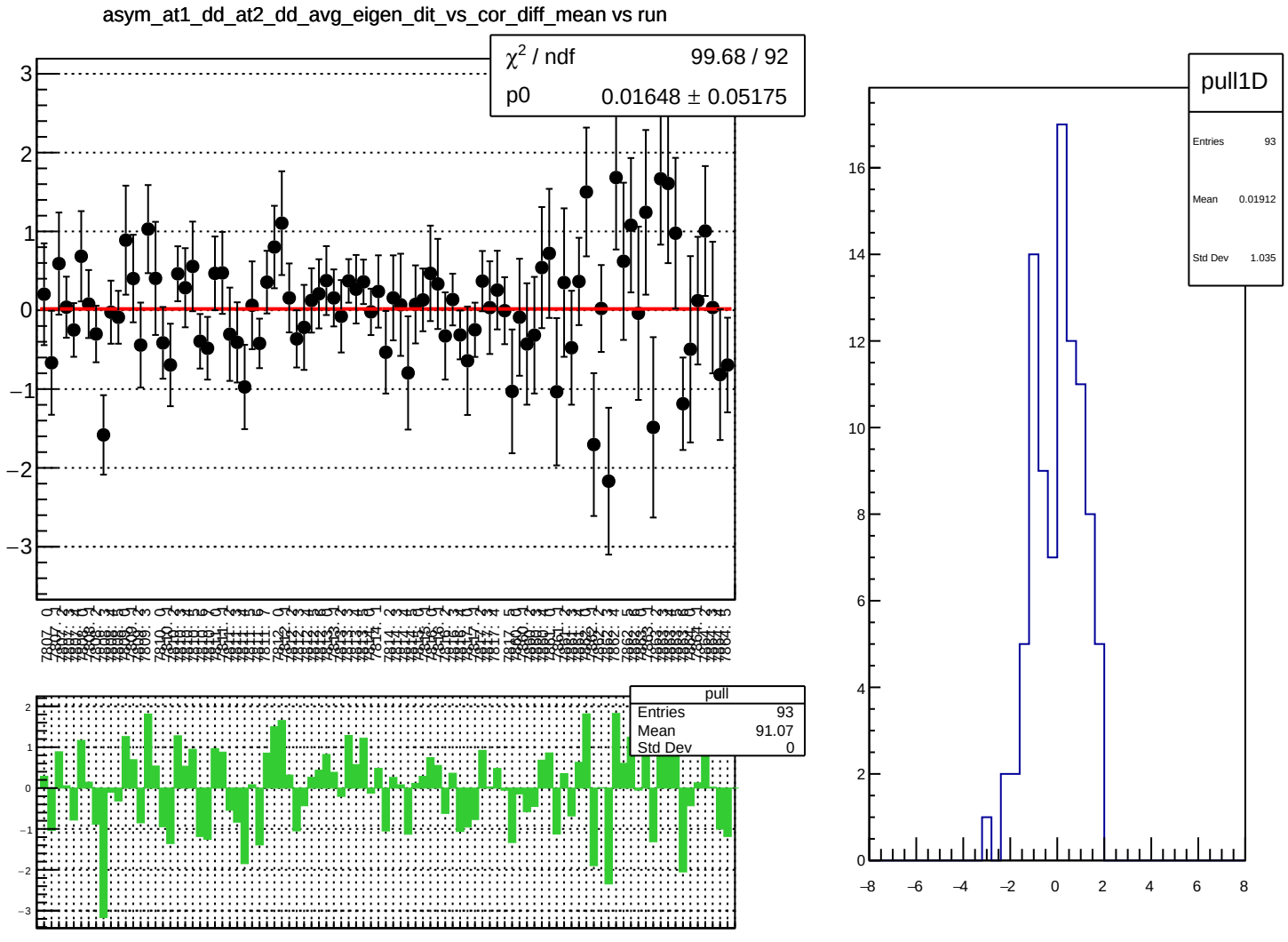

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.68 / 92
p0 0.01648 ± 0.05175
pull
Entries 93
Mean 91.08
Std Dev 0
pull1D
Entries 93
Mean 0.01912
Std Dev 1.035

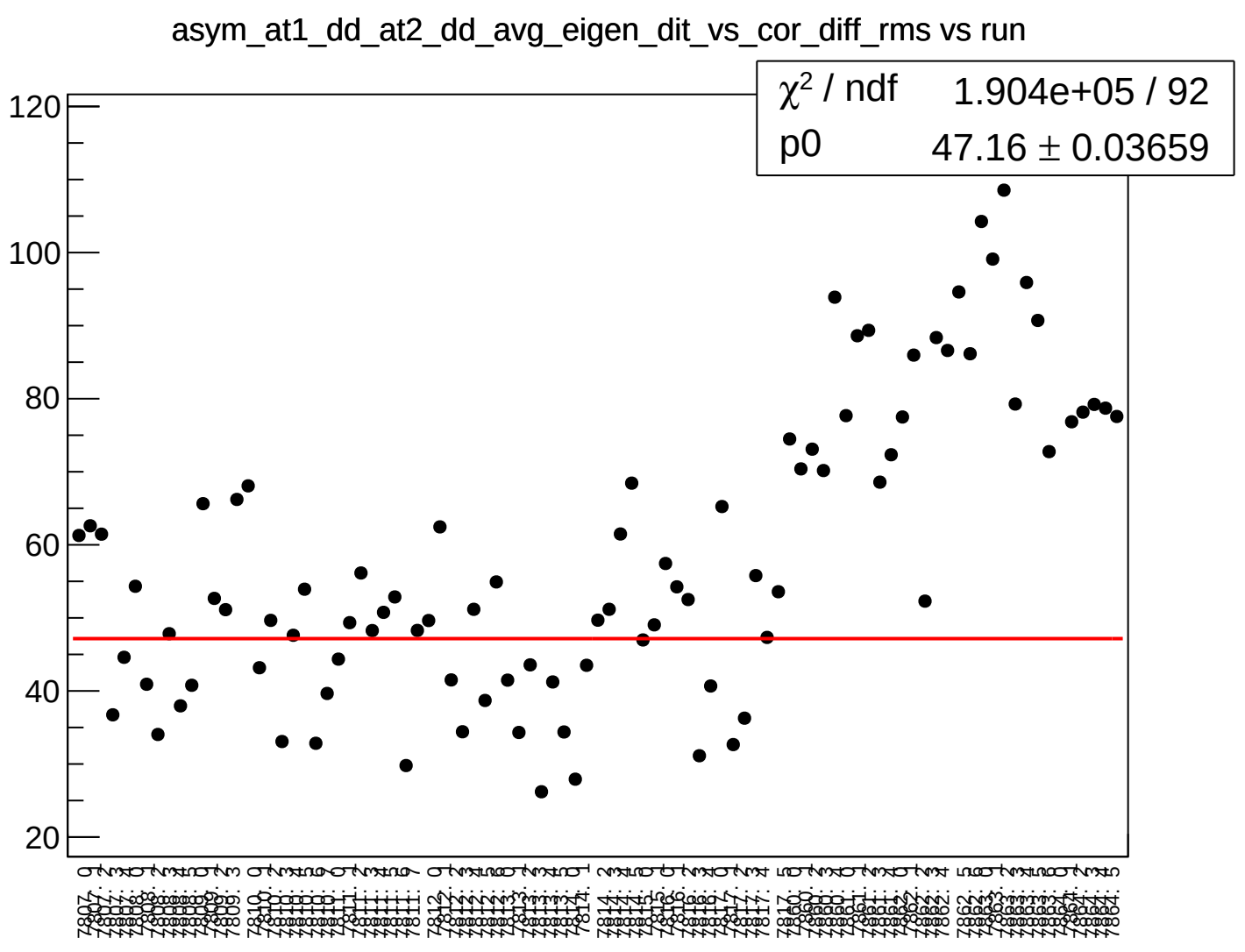

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.904e+05 / 92
p0 47.16 ± 0.03659
120
100
80
60
40
20

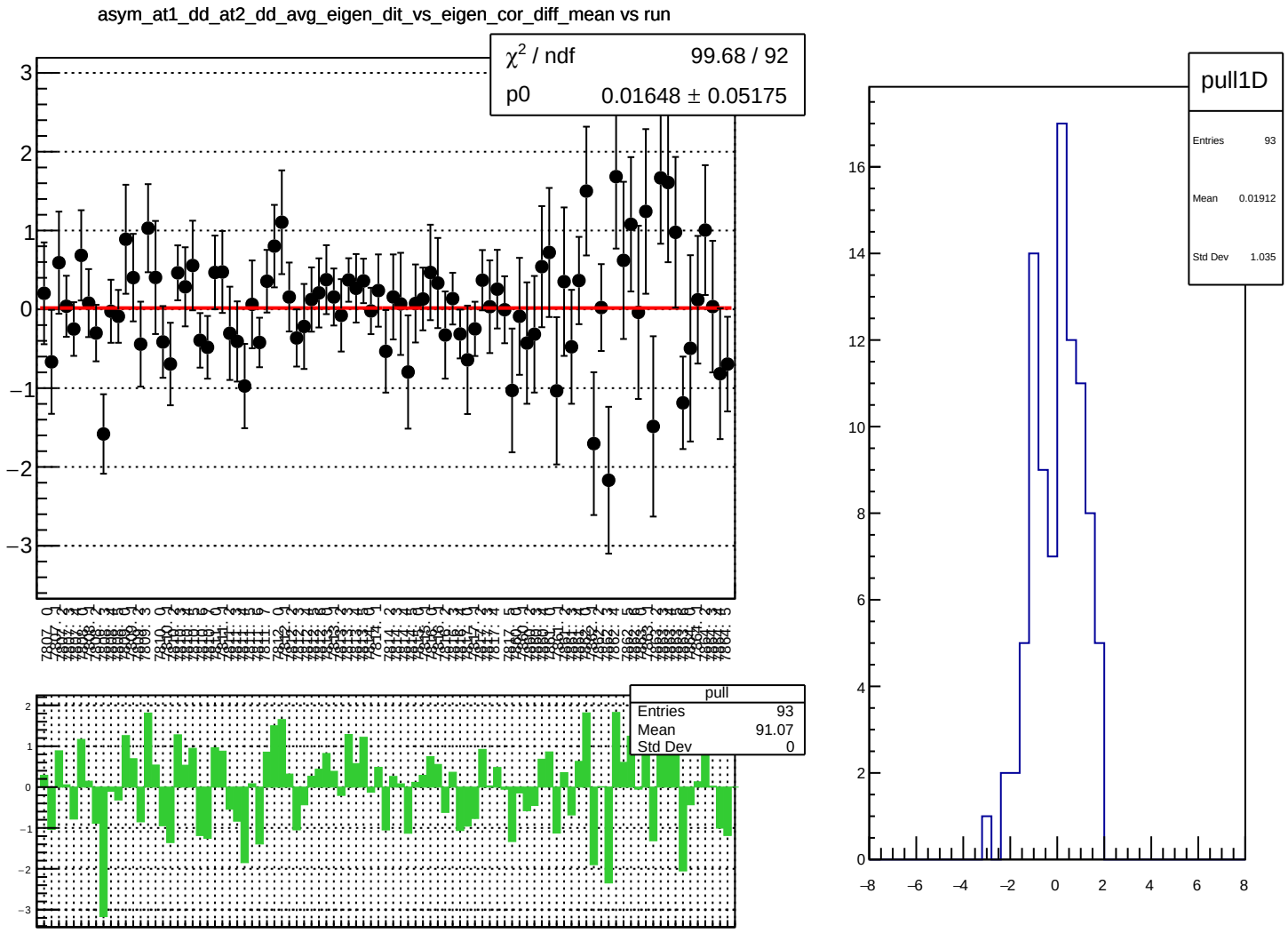

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 79.15 / 92
p0 3.43e−06 ± 4.593e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
pull
Entries 93
Mean 75.54
Std Dev 0
2
1
0
−1
−2

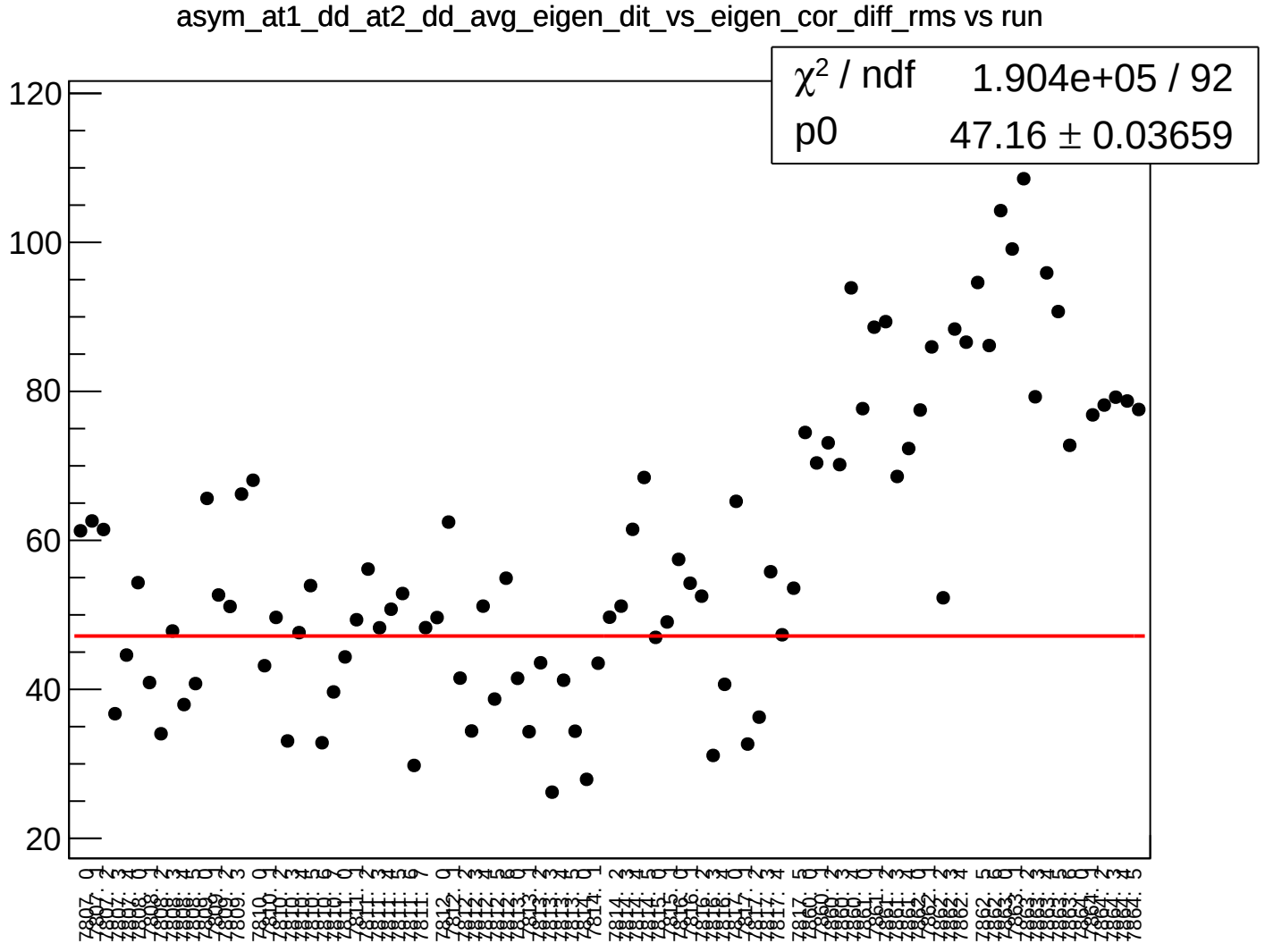

pull1D
Entries 93
Mean 0.01883
Std Dev 0.9223
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

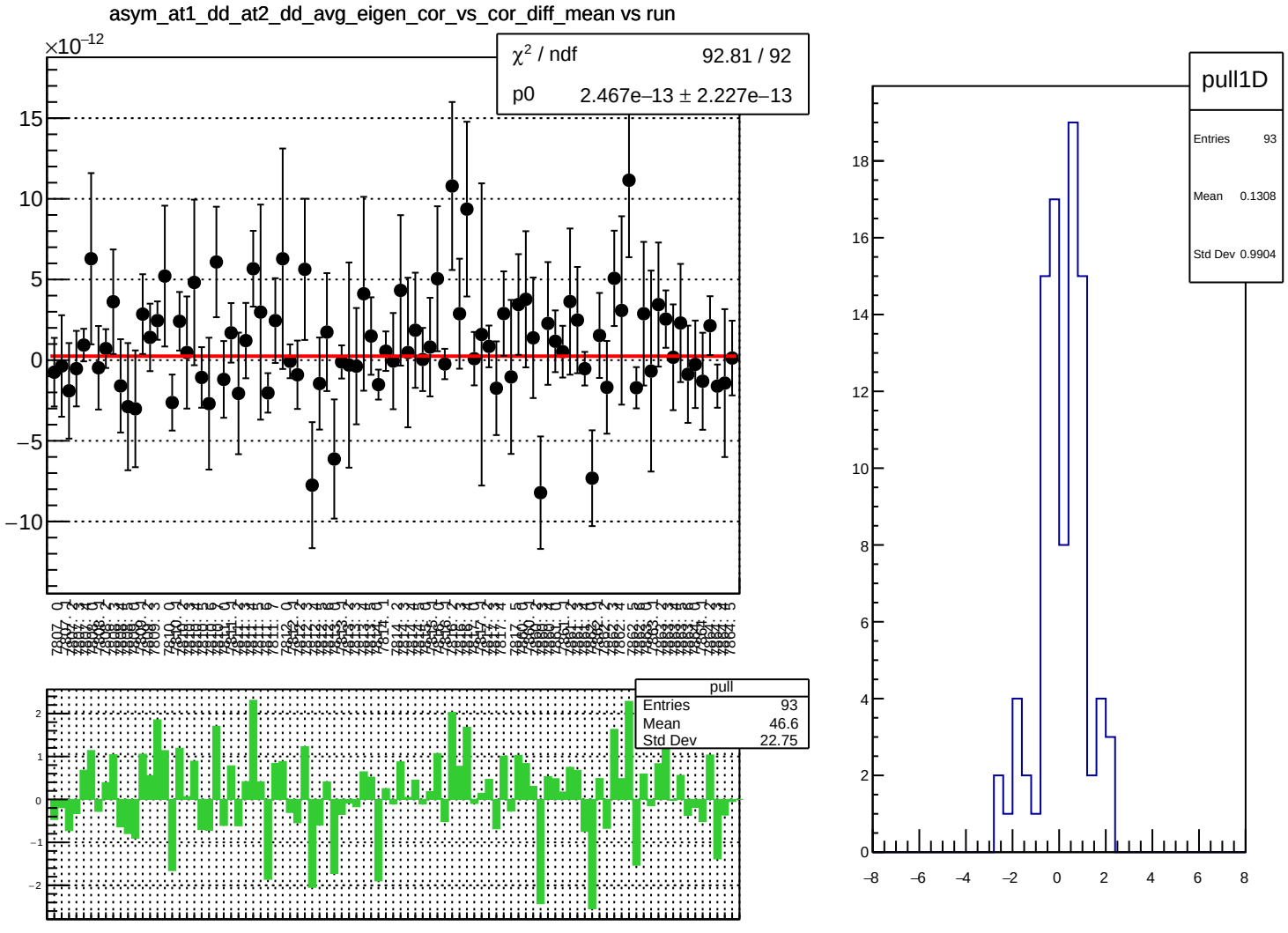

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.967e+04 / 92
p0 0.004323 ± 3.247e−06
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003

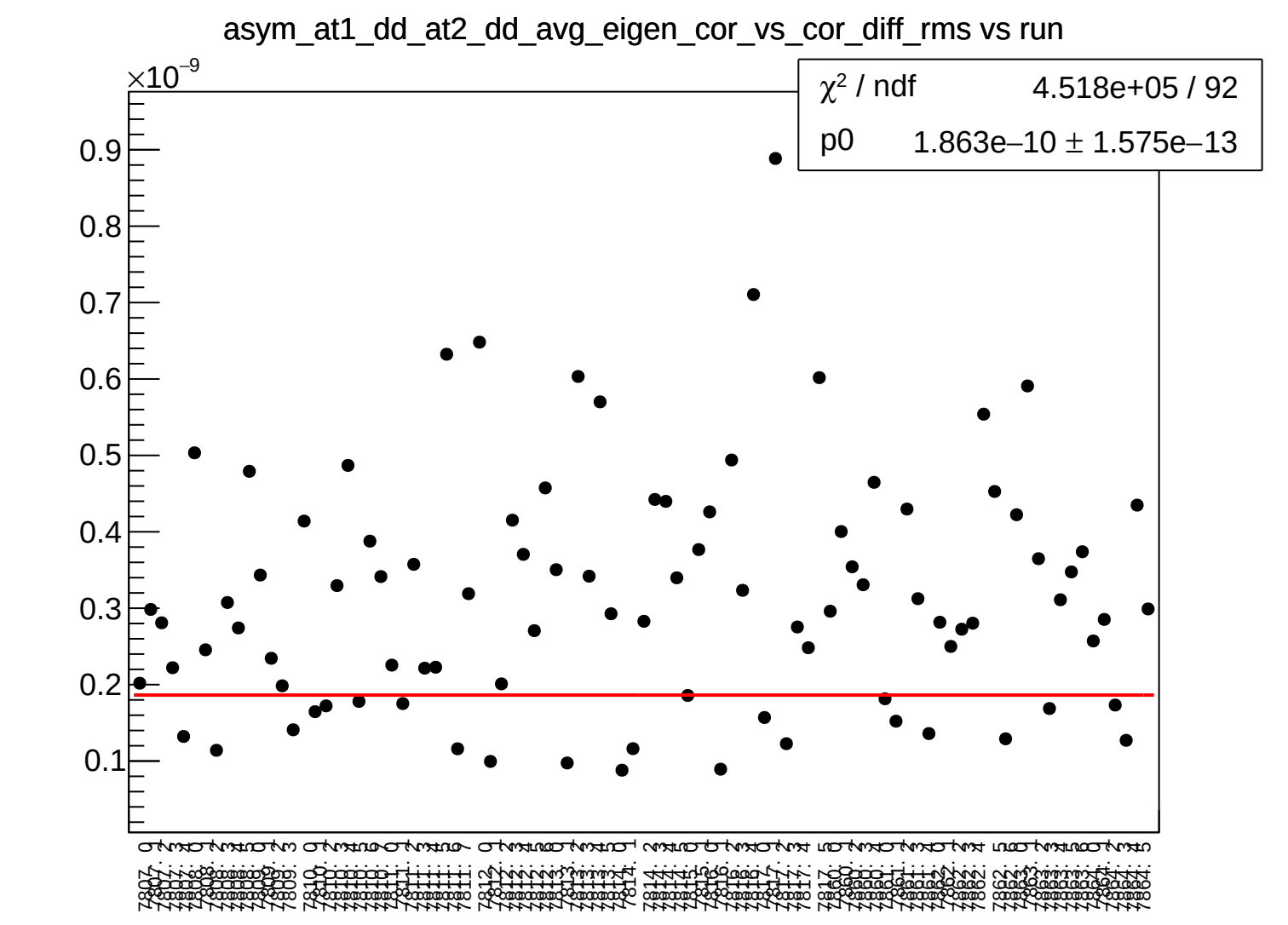

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 99.68 / 92
p0 0.01648 ± 0.05175
pull
Entries 93
Mean 91.07
Std Dev 0
pull1D
Entries 93
Mean 0.01912
Std Dev 1.035

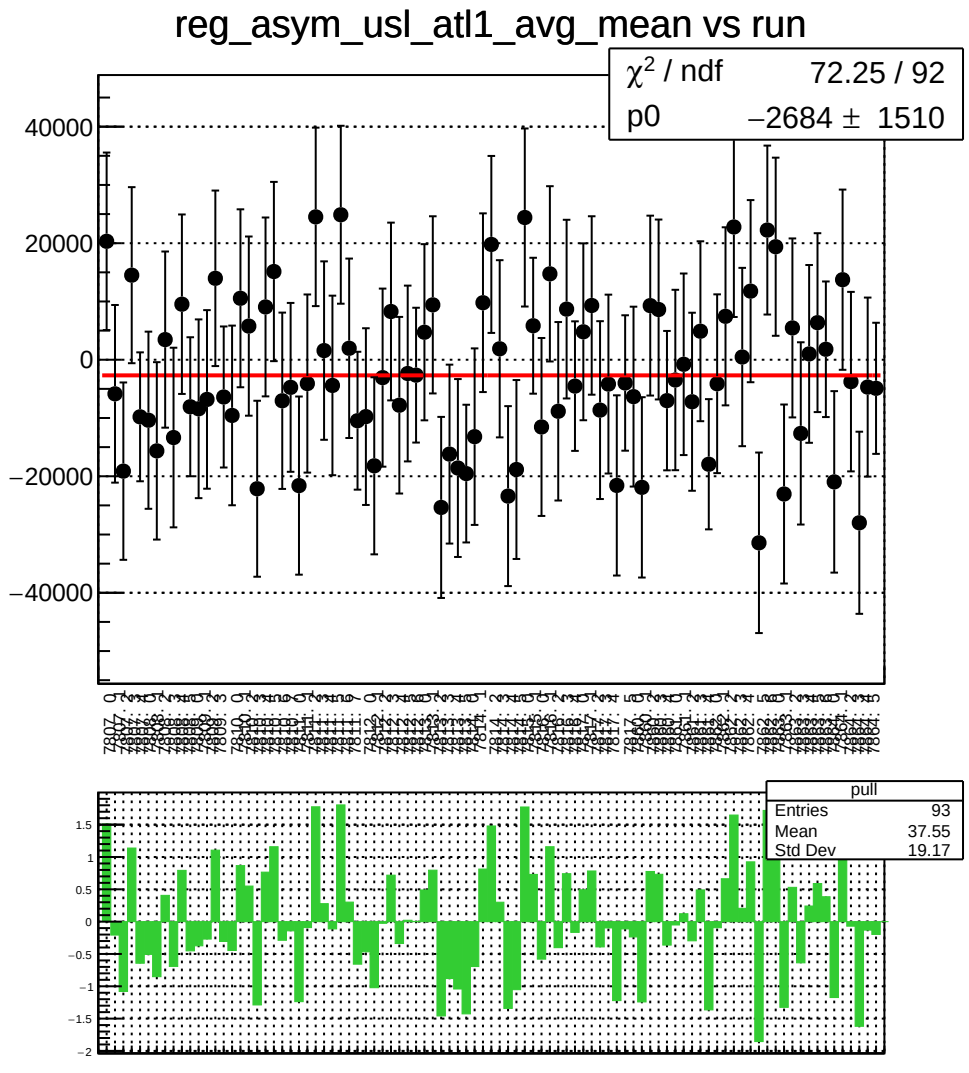

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.904e+05 / 92
p0 47.16 ± 0.03659
120
100
80
60
40
20

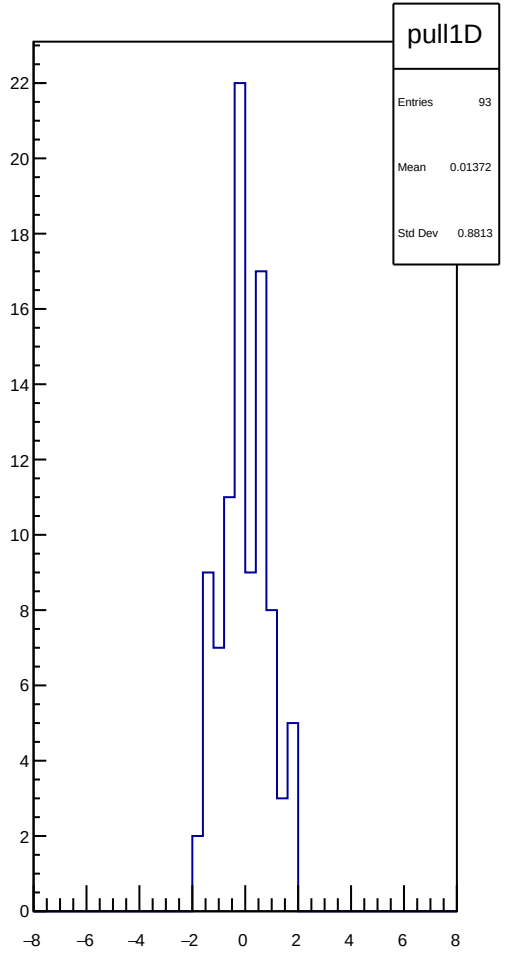

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.68 / 92
p0 0.01648 ± 0.05175
pull
Entries 93
Mean 91.07
Std Dev 0
pull1D
Entries 93
Mean 0.01912
Std Dev 1.035

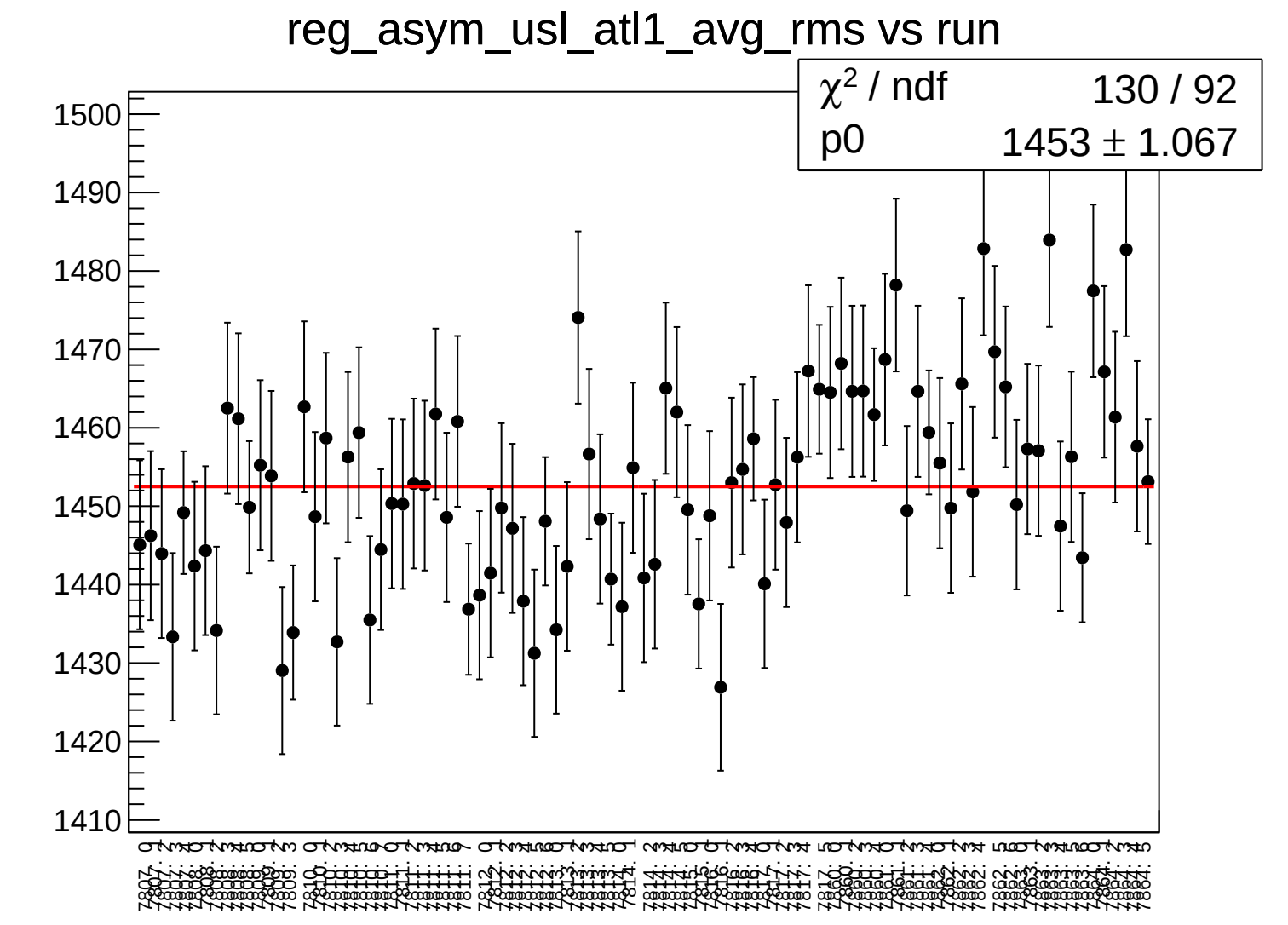

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.904e+05 / 92
p0 47.16 ± 0.03659
120
100
80
60
40
20

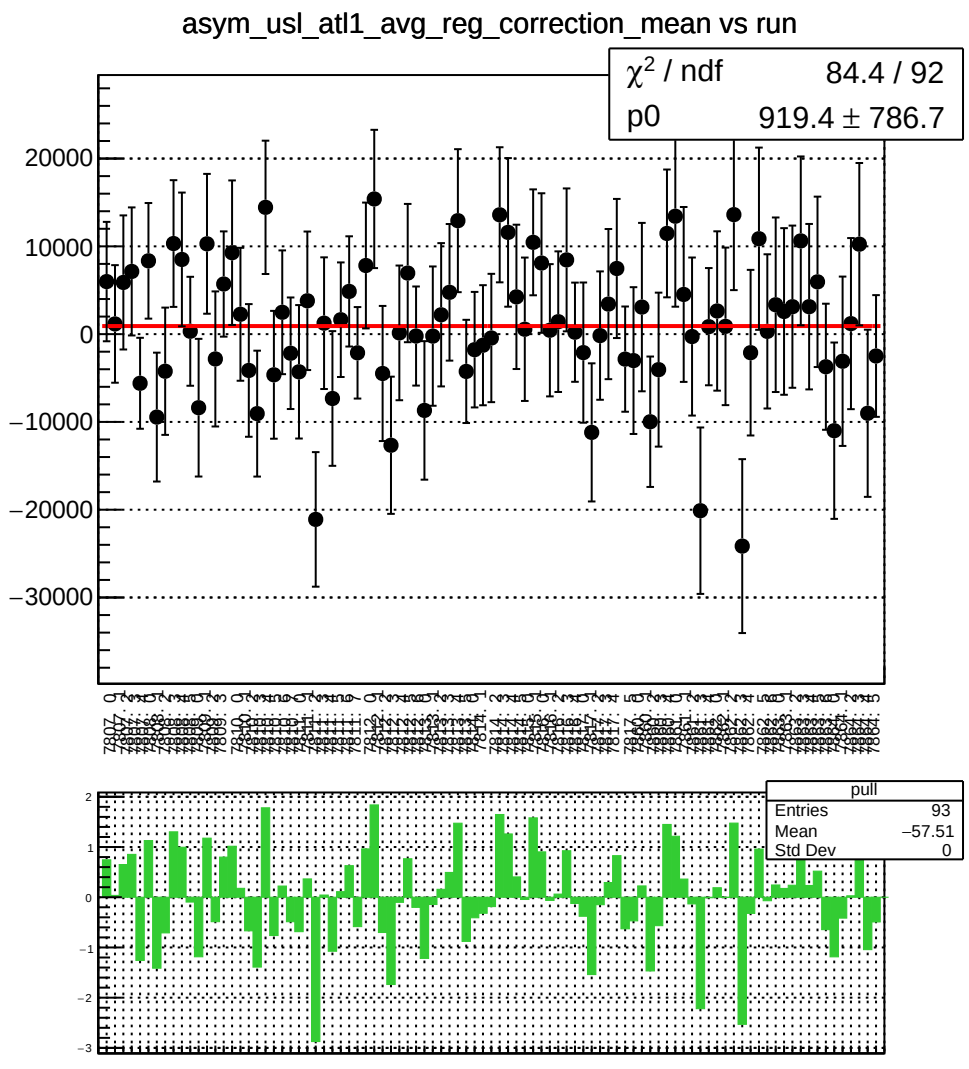

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.81 / 92
p0 2.467e−13 ± 2.227e−13
15
10
5
0
−5
−10
pull
Entries 93
Mean 46.6
Std Dev 22.75
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.1308
Std Dev 0.9904
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

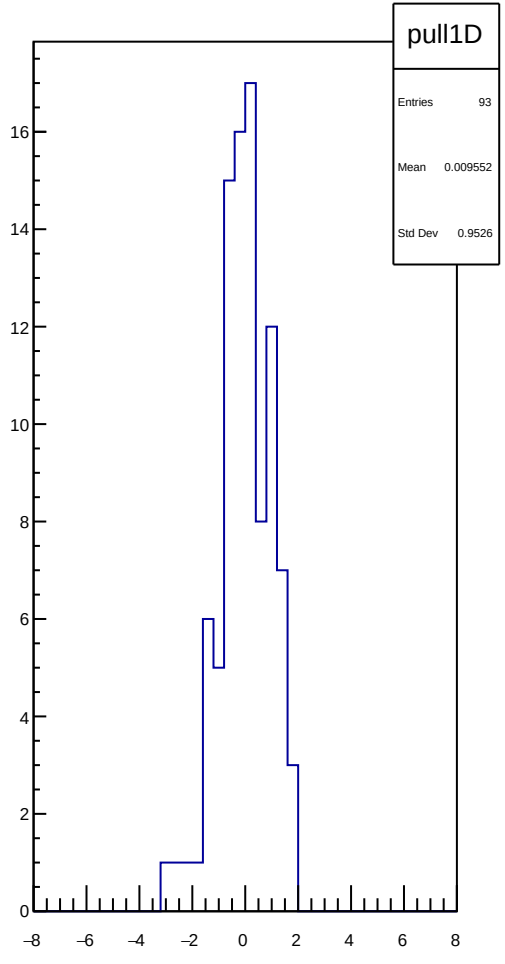

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.518e+05 / 92
p0 1.863e−10 ± 1.575e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

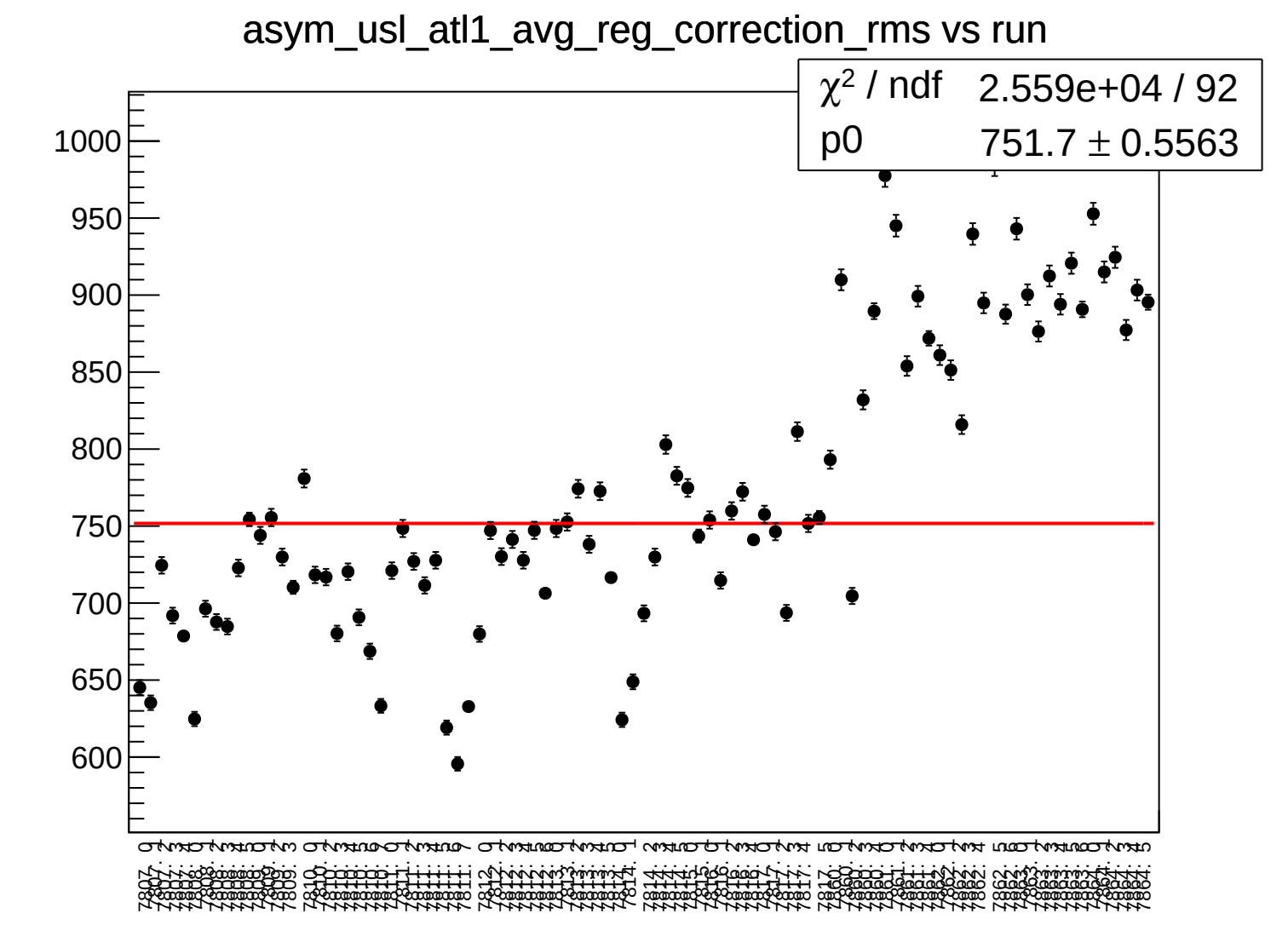

reg_asym_usl_atl1_avg_mean vs run
χ² / ndf 72.25 / 92
p0 −2684 ± 1510
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 37.55
Std Dev 19.17
1.5
1
0.5
0
−0.5
−1
−1.5
−2

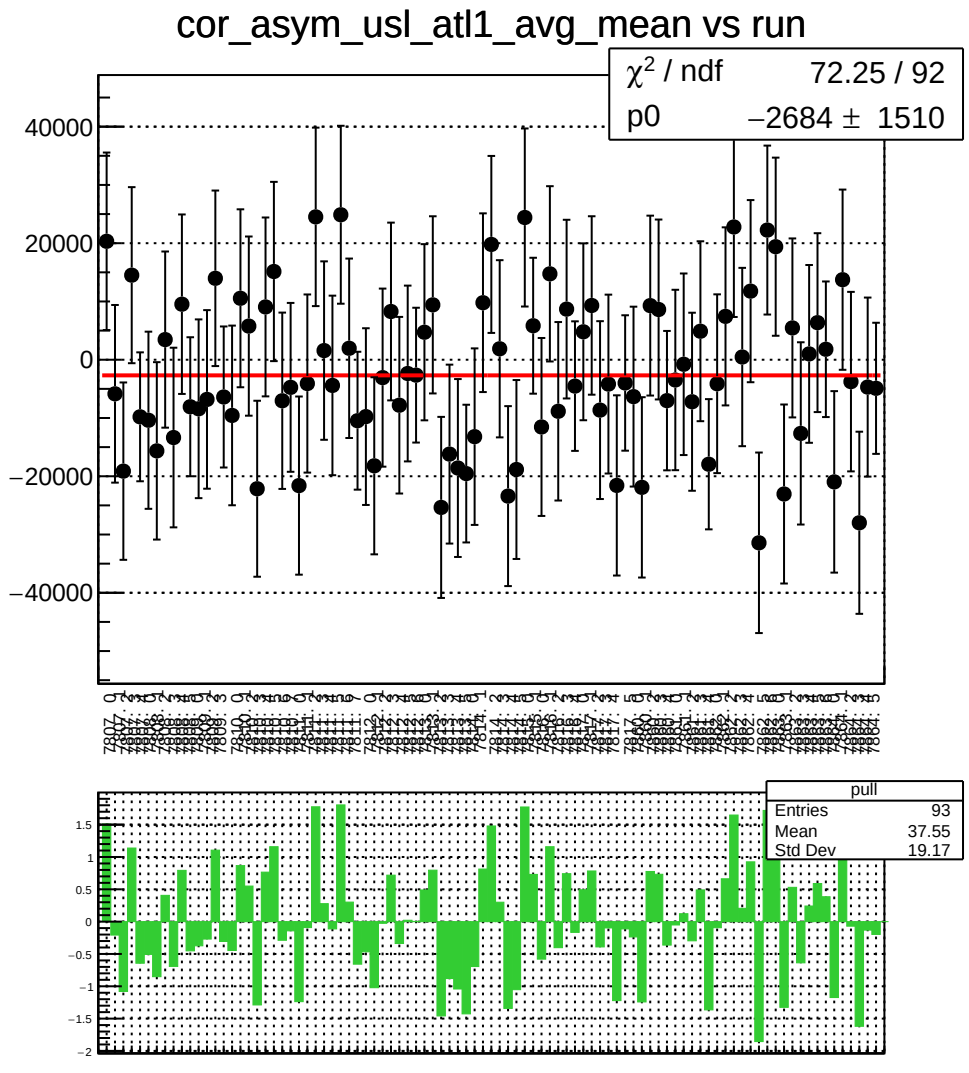

pull1D
Entries 93
Mean 0.01372
Std Dev 0.8813
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

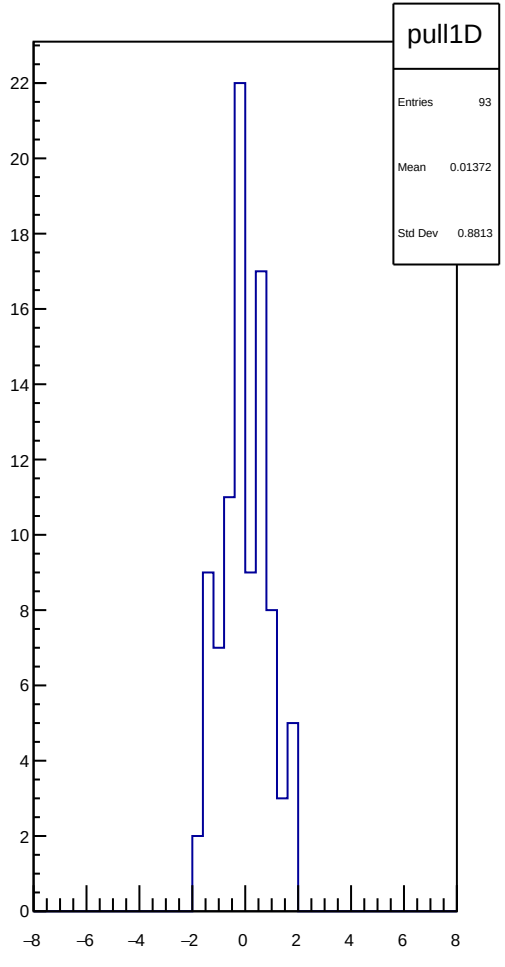

reg_asym_usl_atl1_avg_rms vs run
χ² / ndf 130 / 92
p0 1453 ± 1.067
1500
1490
1480
1470
1460
1450
1440
1430
1420
1410

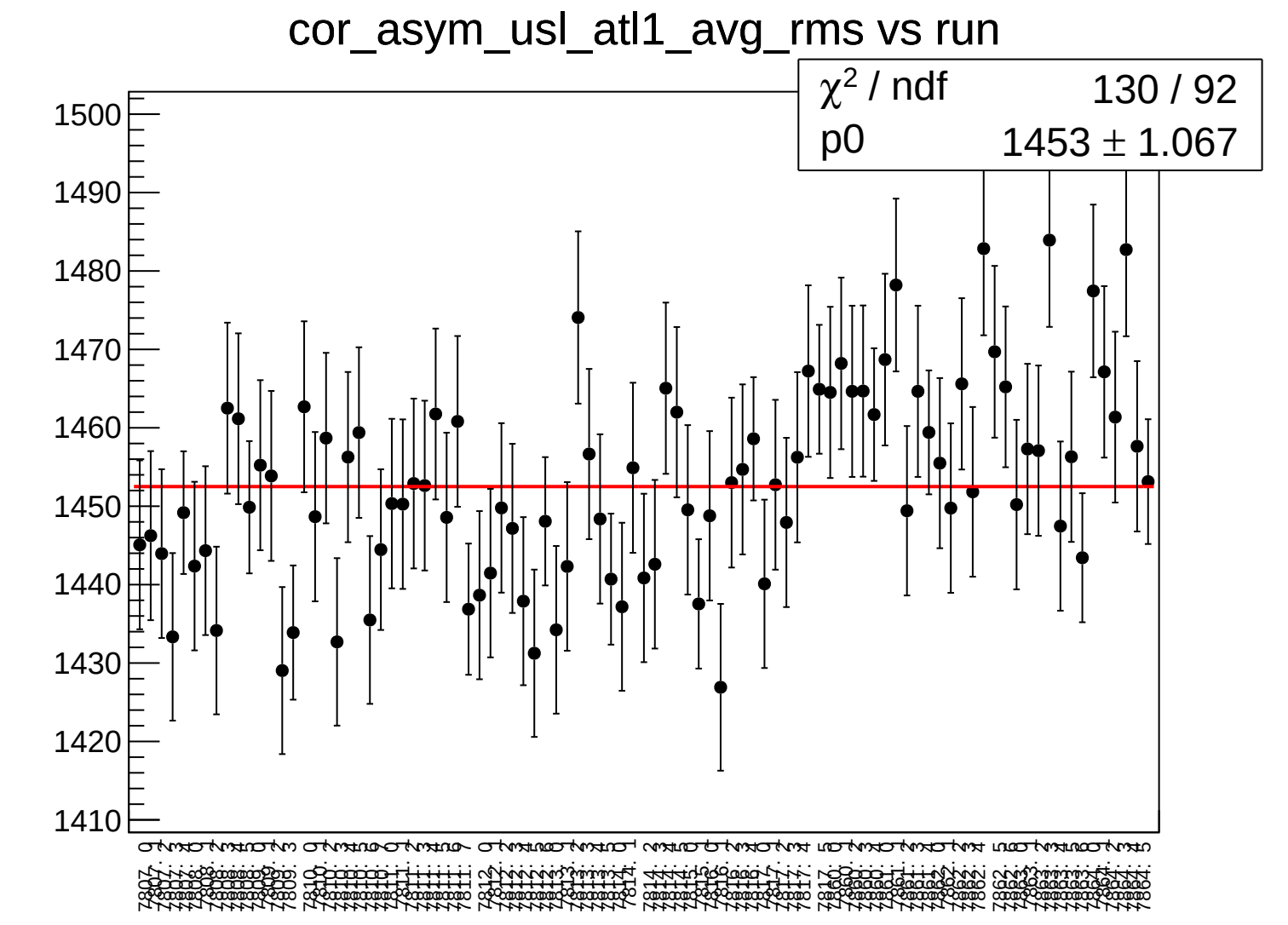

asym_usl_atl1_avg_reg_correction_mean vs run
χ² / ndf 84.4 / 92
p0 919.4 ± 786.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −57.51
Std Dev 0
2
1
0
−1
−2
−3

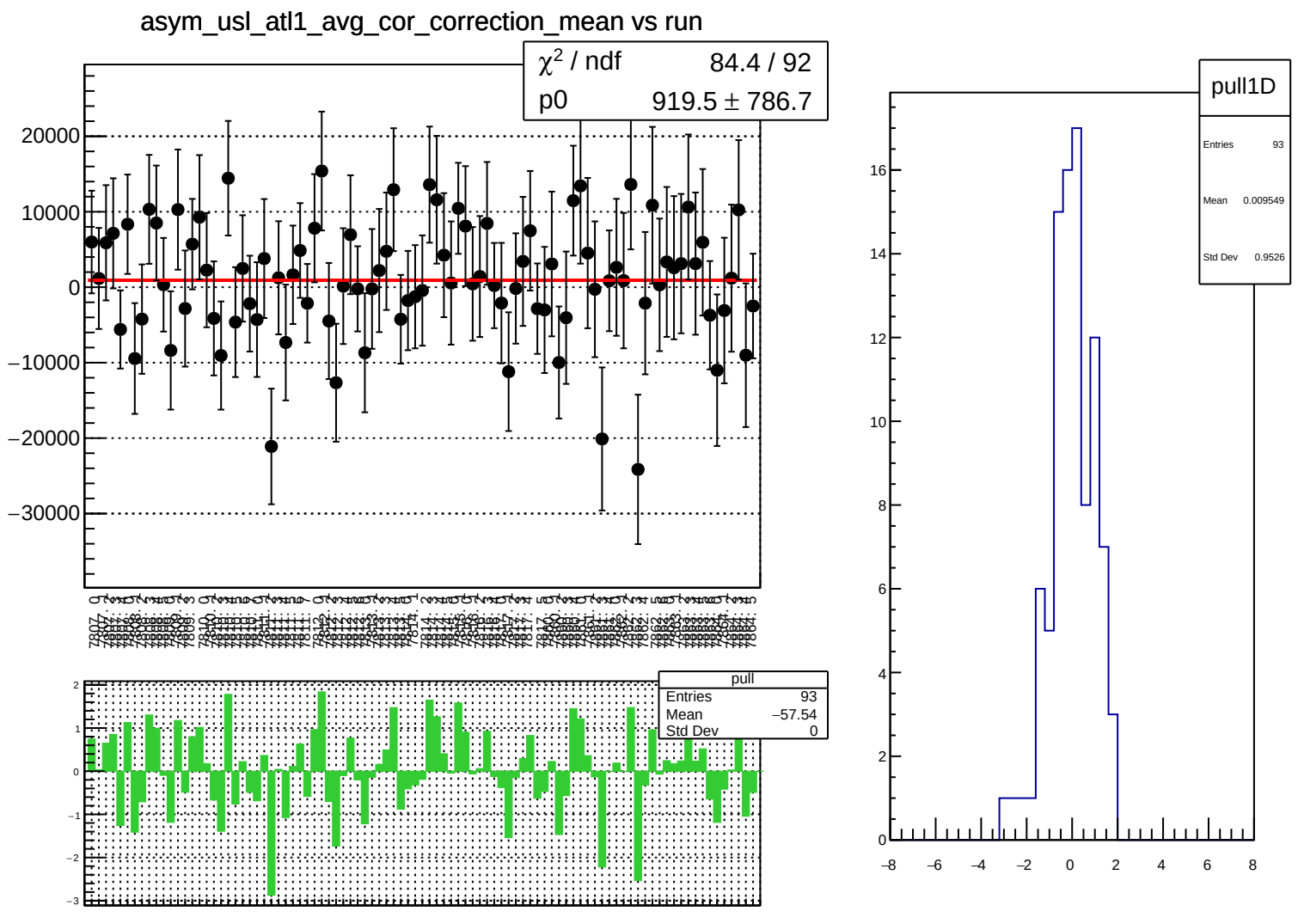

pull1D
Entries 93
Mean 0.009552
Std Dev 0.9526
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

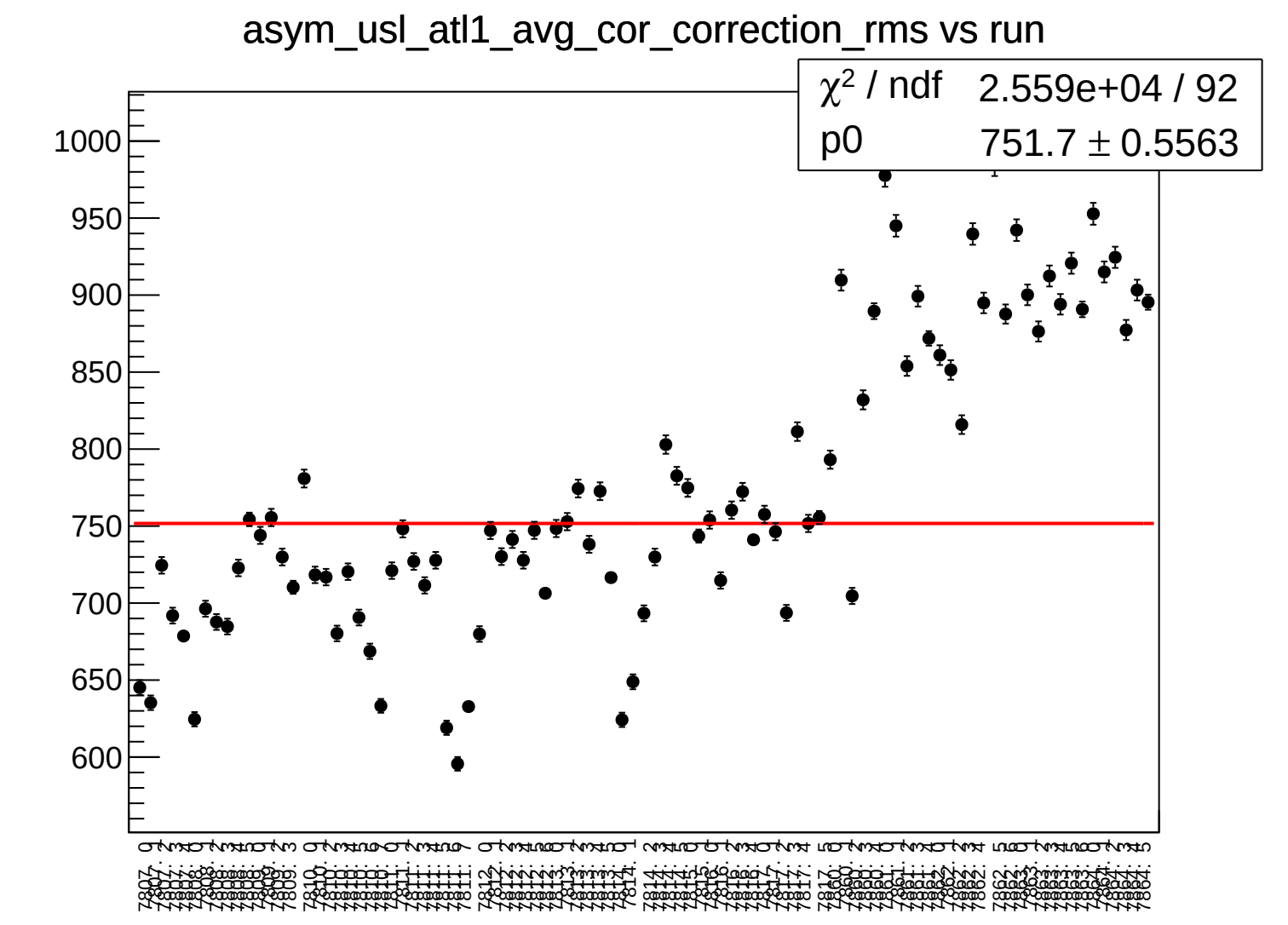

asym_usl_atl1_avg_reg_correction_rms vs run
χ² / ndf 2.559e+04 / 92
p0 751.7 ± 0.5563
1000
950
900
850
800
750
700
650
600

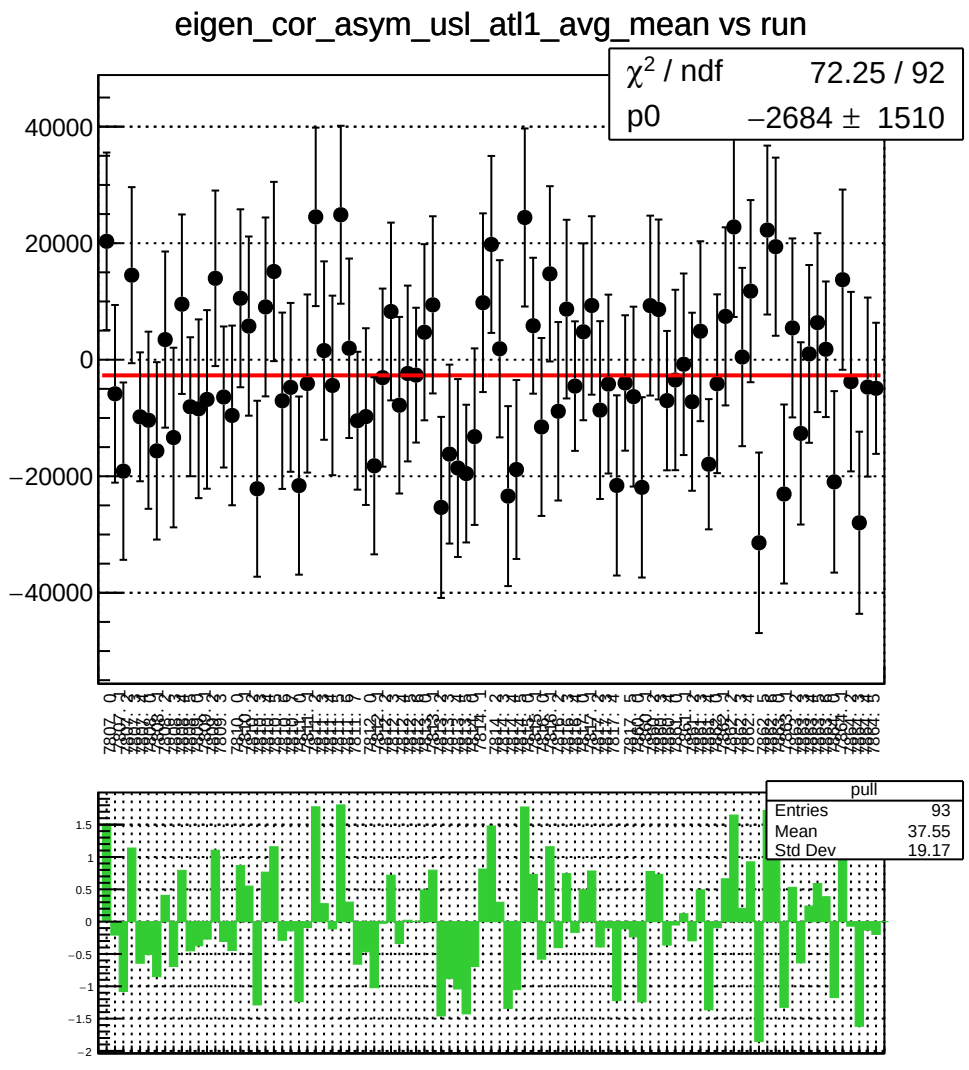

cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 72.25 / 92
p0 −2684 ± 1510
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 37.55
Std Dev 19.17
1.5
1
0.5
0
−0.5
−1
−1.5
−2

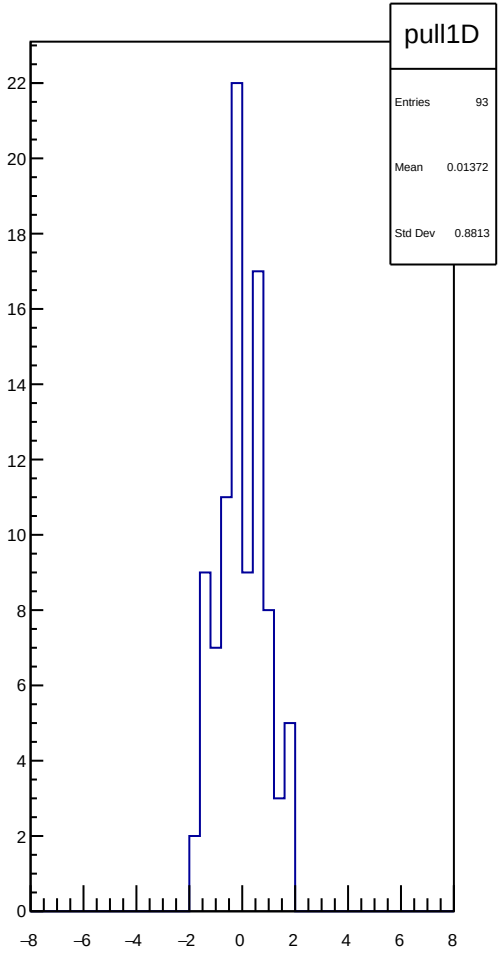

pull1D
Entries 93
Mean 0.01372
Std Dev 0.8813
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

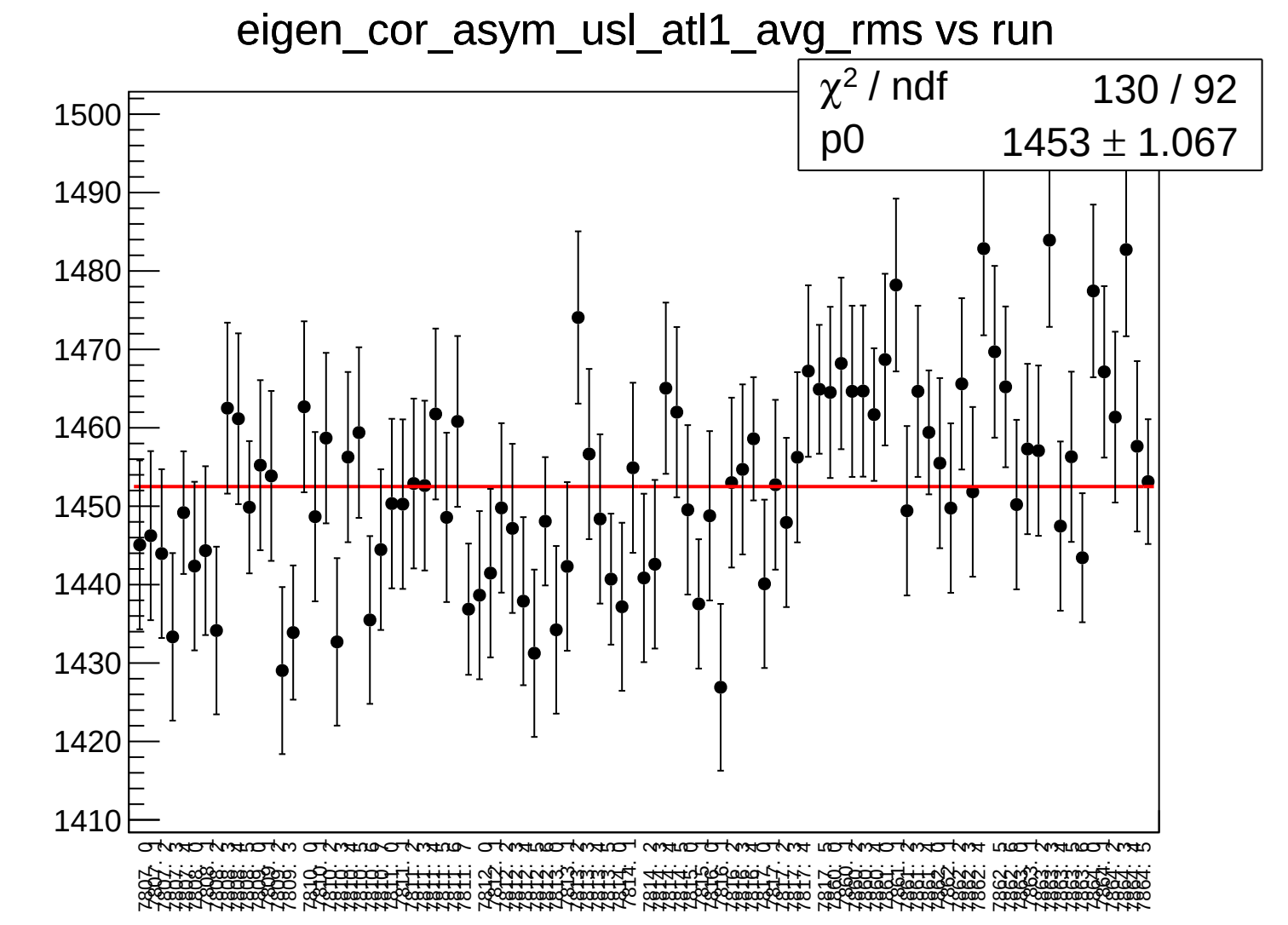

cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 130 / 92
p0 1453 ± 1.067
1500
1490
1480
1470
1460
1450
1440
1430
1420
1410

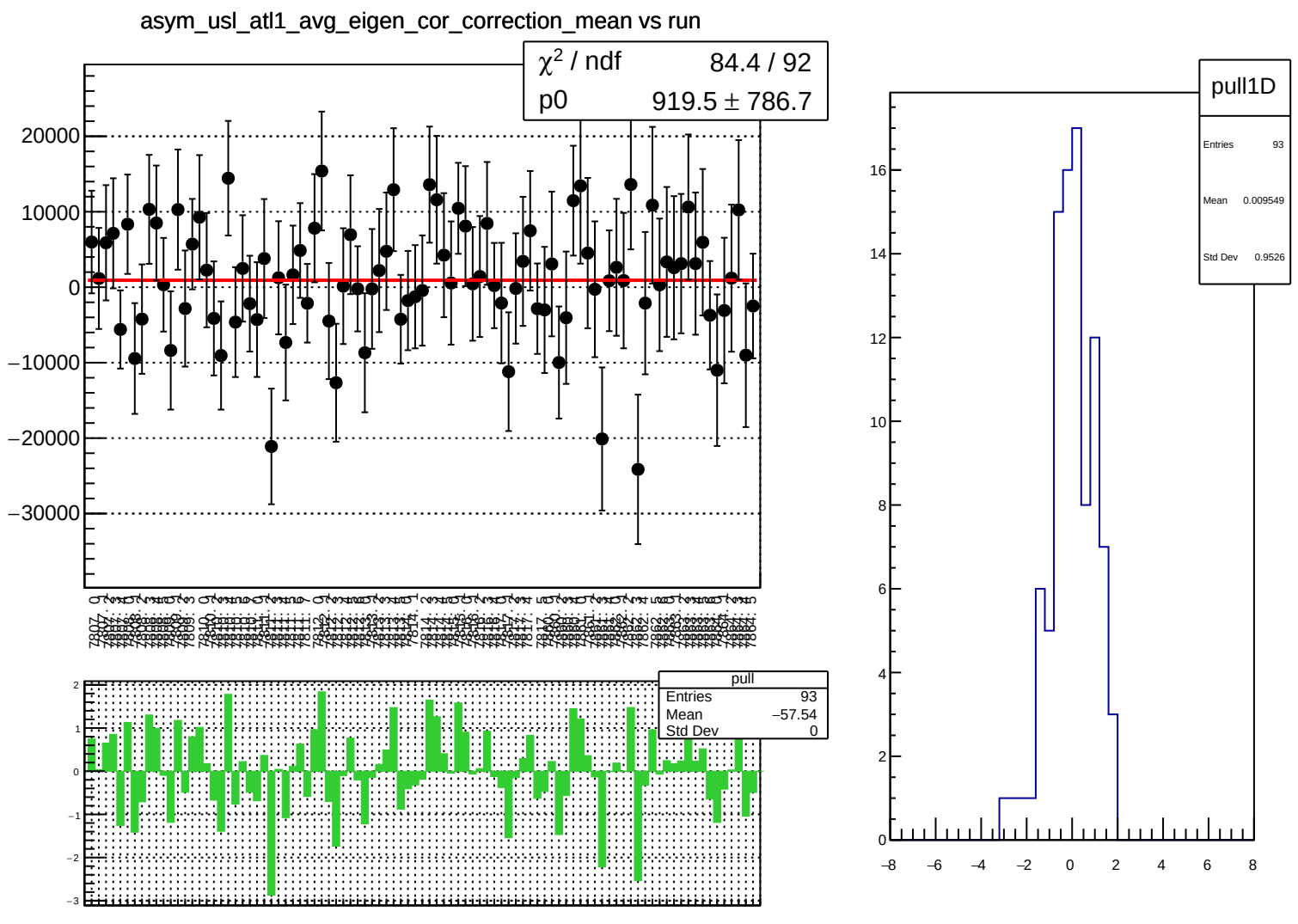

asym_usl_atl1_avg_cor_correction_mean vs run
χ² / ndf 84.4 / 92
p0 919.5 ± 786.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −57.54
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.009549
Std Dev 0.9526
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl1_avg_cor_correction_rms vs run
χ² / ndf 2.559e+04 / 92
p0 751.7 ± 0.5563
1000
950
900
850
800
750
700
650
600


eigen_cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 72.25 / 92
p0 −2684 ± 1510
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 37.55
Std Dev 19.17
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 93
Mean 0.01372
Std Dev 0.8813
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 130 / 92
p0 1453 ± 1.067
1500
1490
1480
1470
1460
1450
1440
1430
1420
1410


asym_usl_atl1_avg_eigen_cor_correction_mean vs run
χ² / ndf 84.4 / 92
p0 919.5 ± 786.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −57.54
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.009549
Std Dev 0.9526
16
14
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10
8
6
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2
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−4
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2
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6
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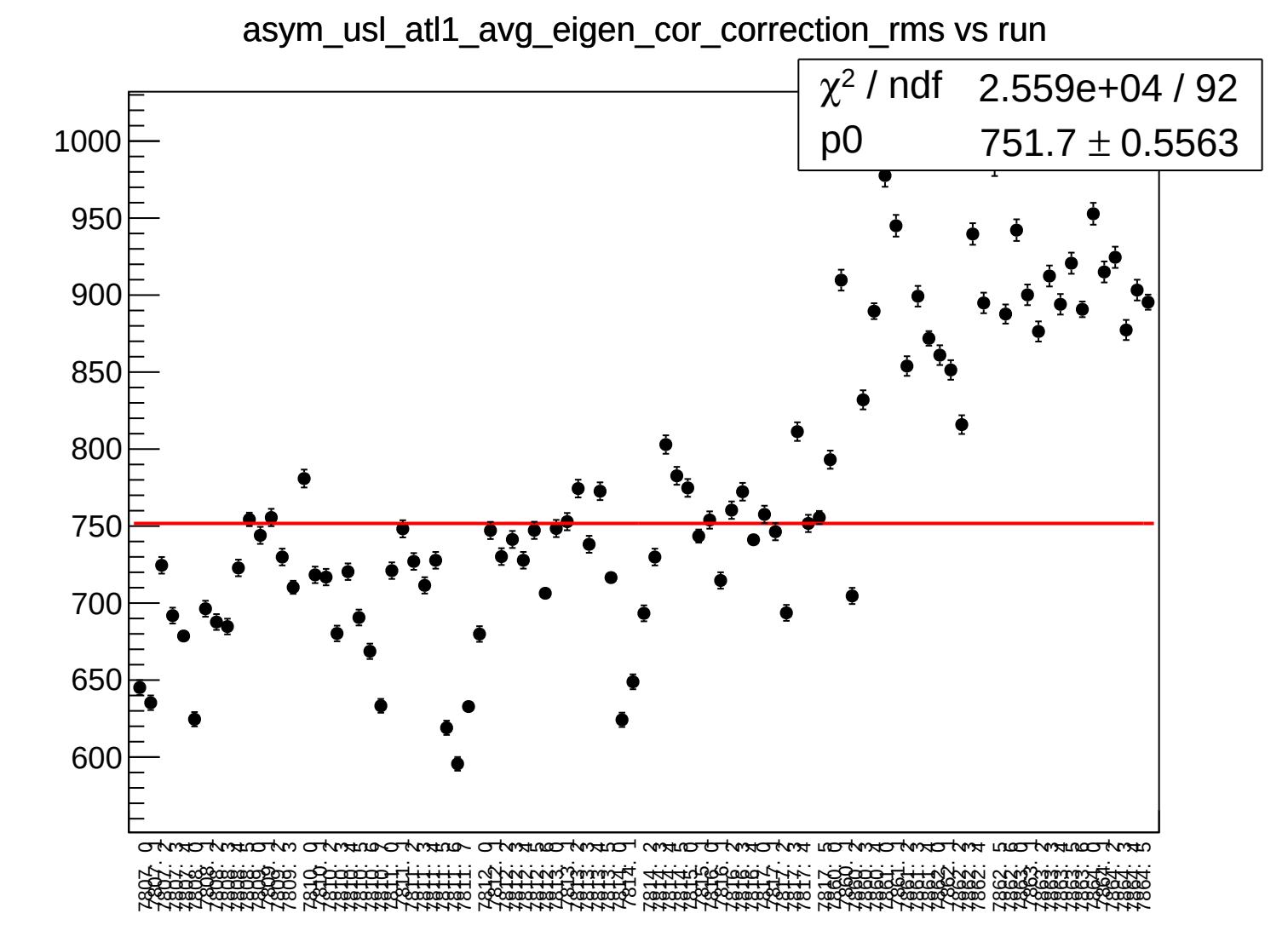
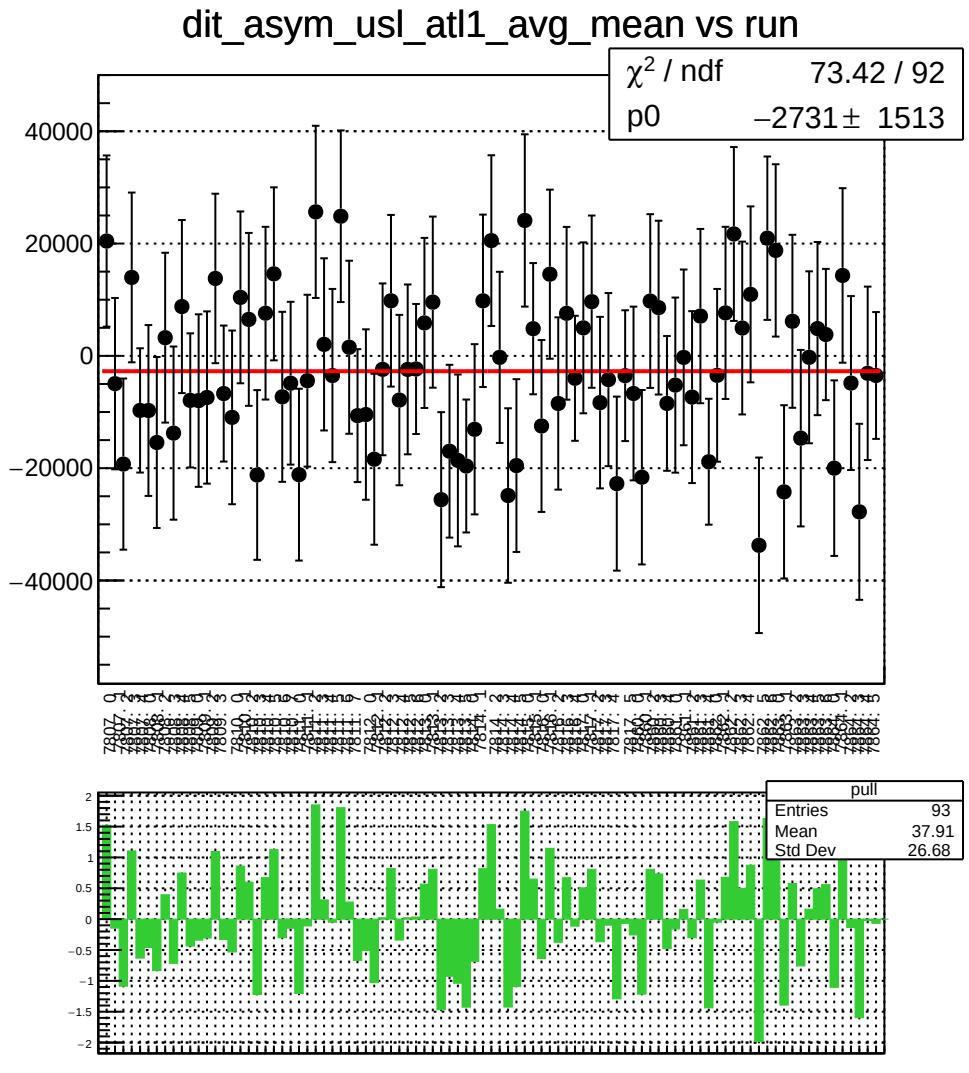
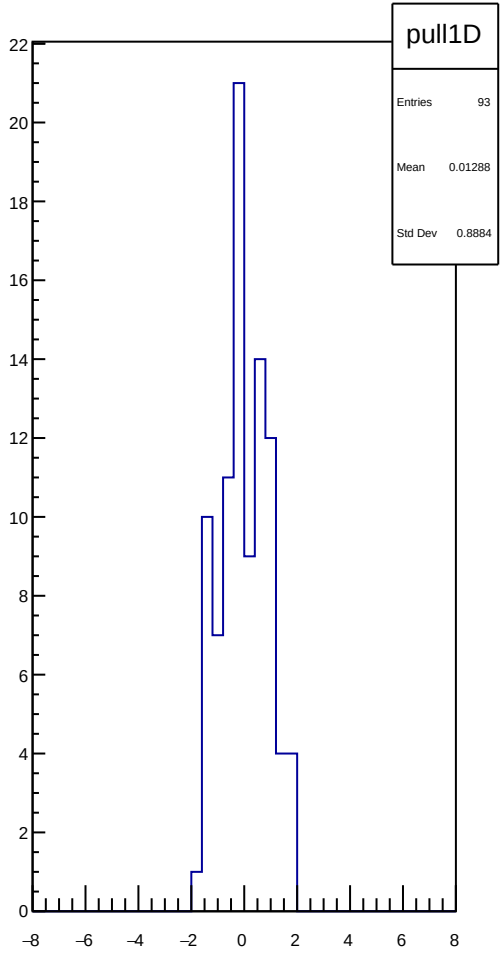
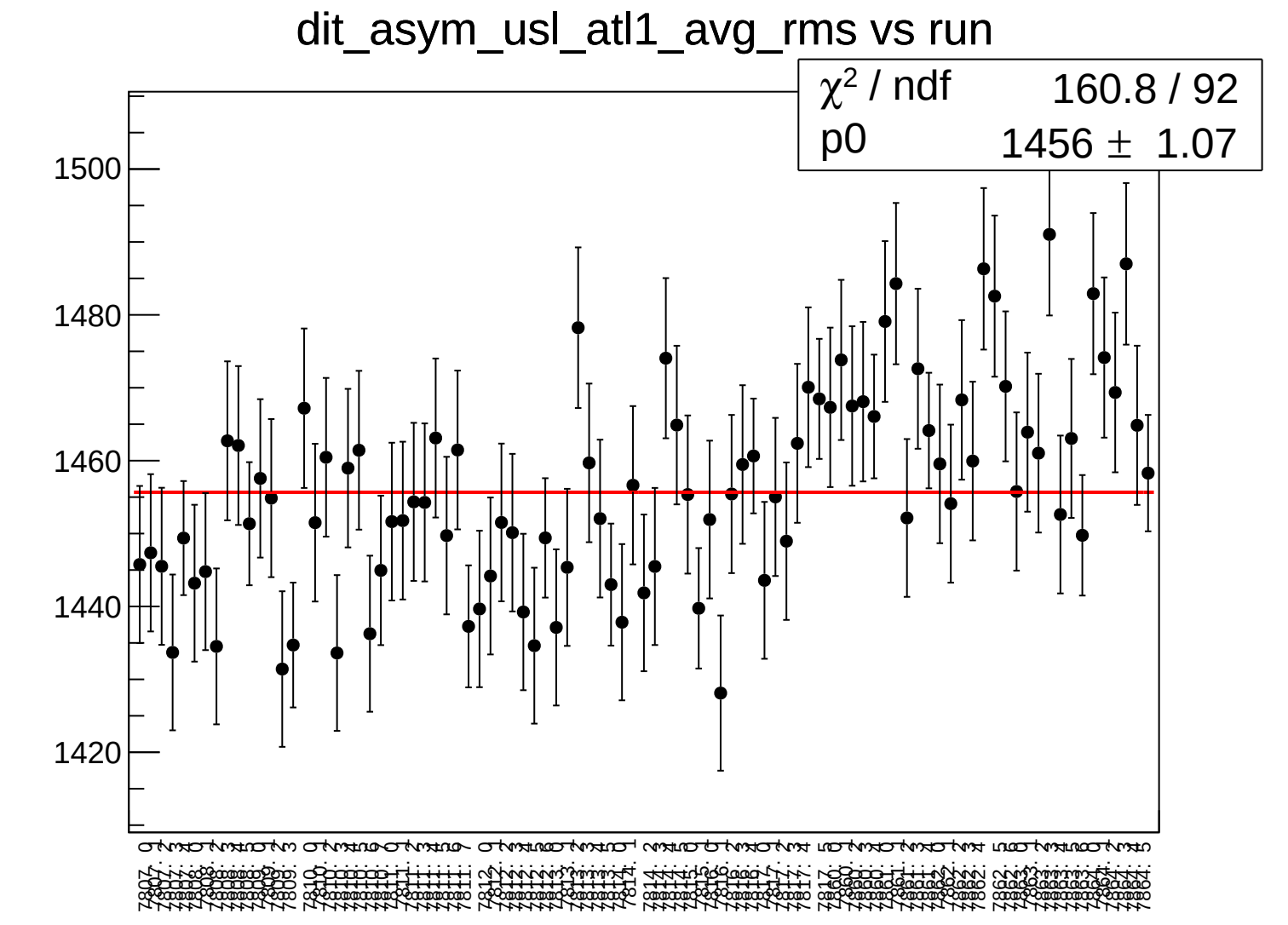
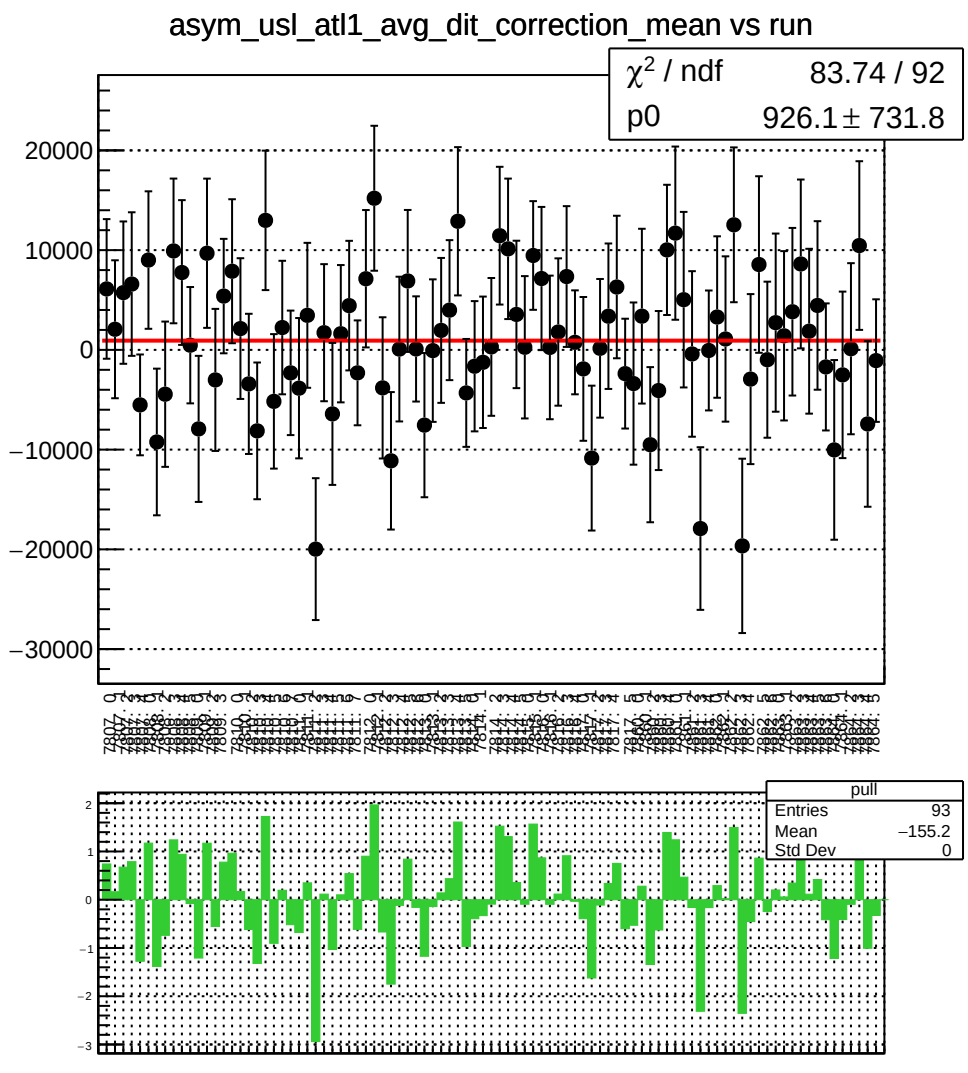
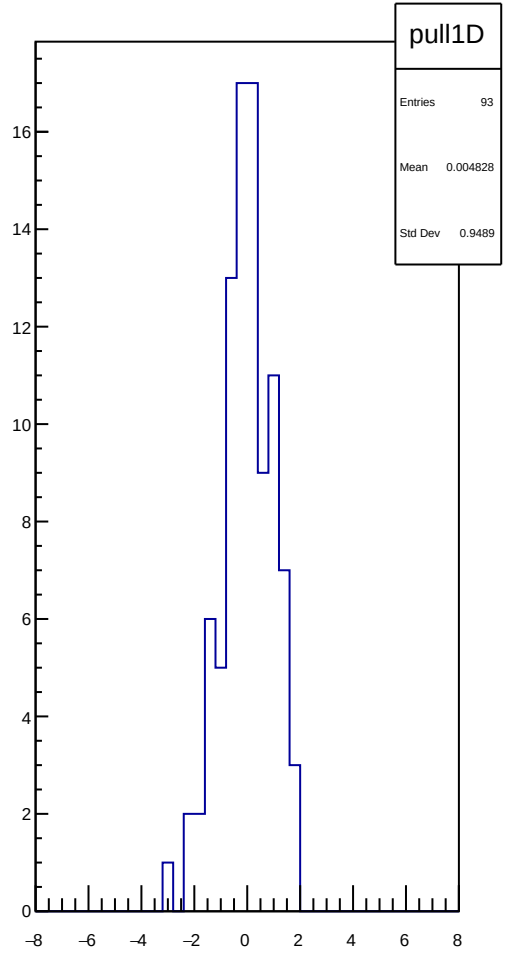

asym_usl_atl1_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.559e+04 / 92
p0 751.7 ± 0.5563
1000
950
900
850
800
750
700
650
600


dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 73.42 / 92
p0 −2731 ± 1513
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 37.91
Std Dev 26.68
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 93
Mean 0.01288
Std Dev 0.8884
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 160.8 / 92
p0 1456 ± 1.07
1500
1480
1460
1440
1420


asym_usl_atl1_avg_dit_correction_mean vs run
χ² / ndf 83.74 / 92
p0 926.1 ± 731.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −155.2
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 93
Mean 0.004828
Std Dev 0.9489
16
14
12
10
8
6
4
2
0
−8
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−4
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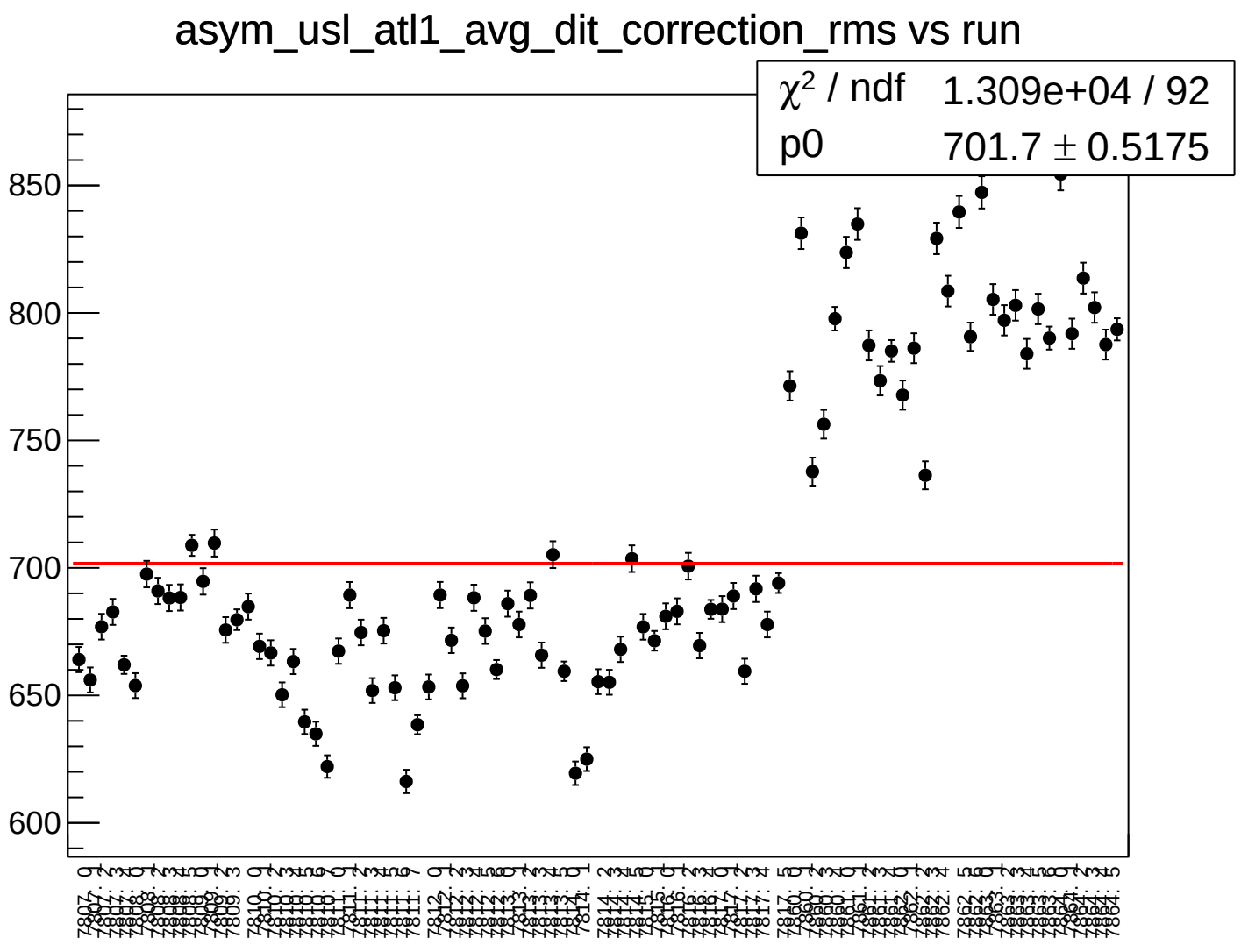
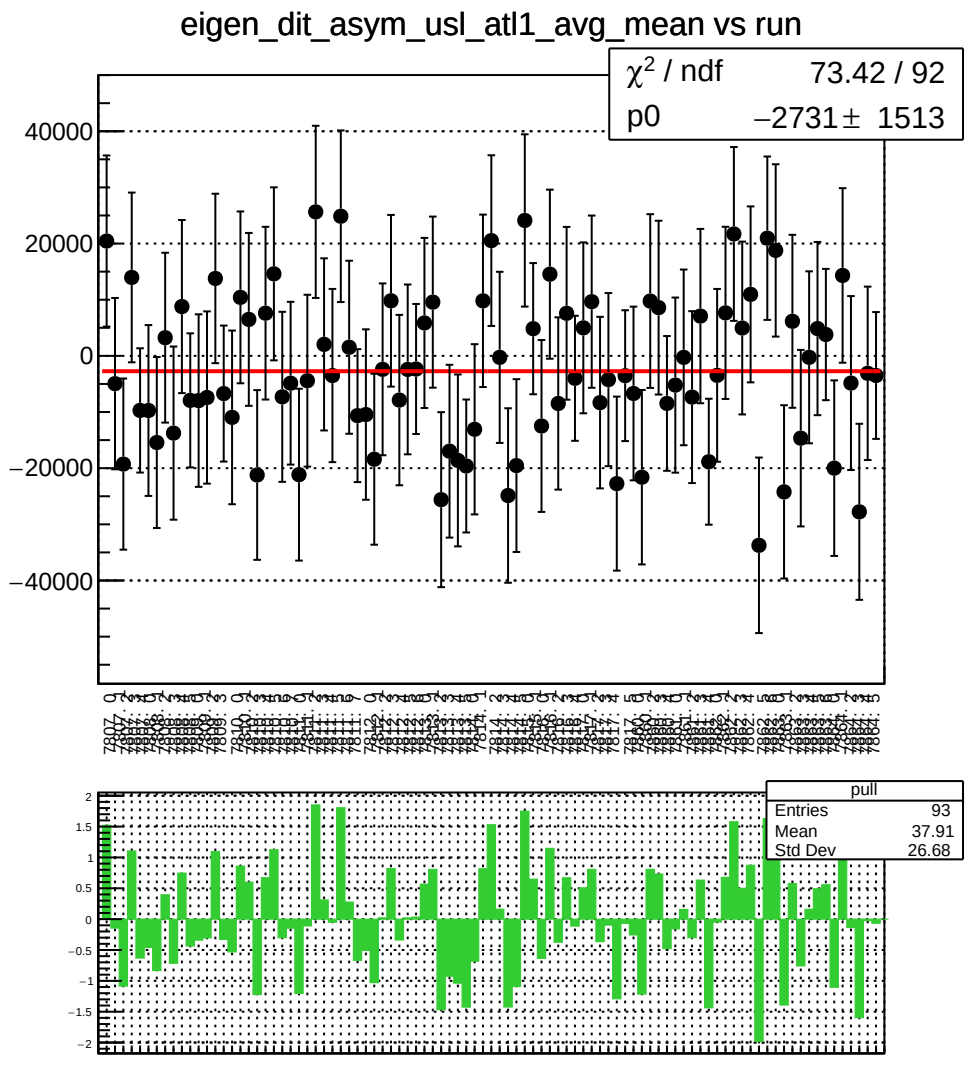
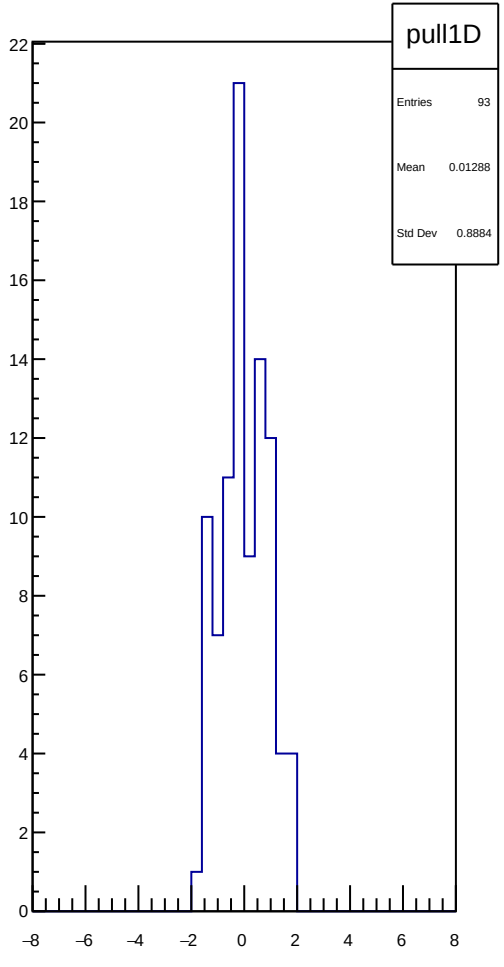
2
4
6
8


asym_usl_atl1_avg_dit_correction_rms vs run
χ² / ndf 1.309e+04 / 92
p0 701.7 ± 0.5175
850
800
750
700
650
600


eigen_dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 73.42 / 92
p0 −2731 ± 1513
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 37.91
Std Dev 26.68
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 93
Mean 0.01288
Std Dev 0.8884
22
20
18
16
14
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10
8
6
4
2
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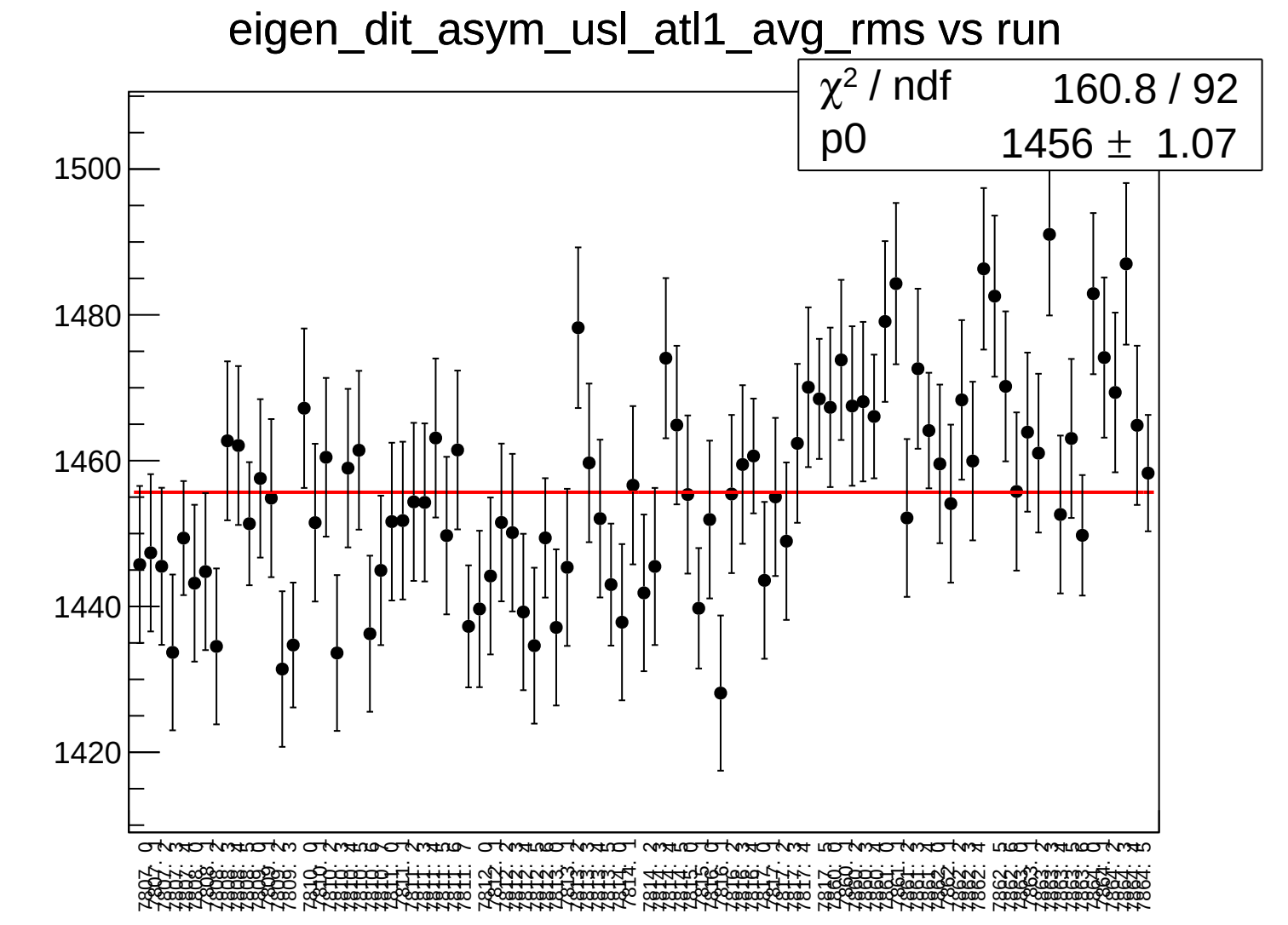
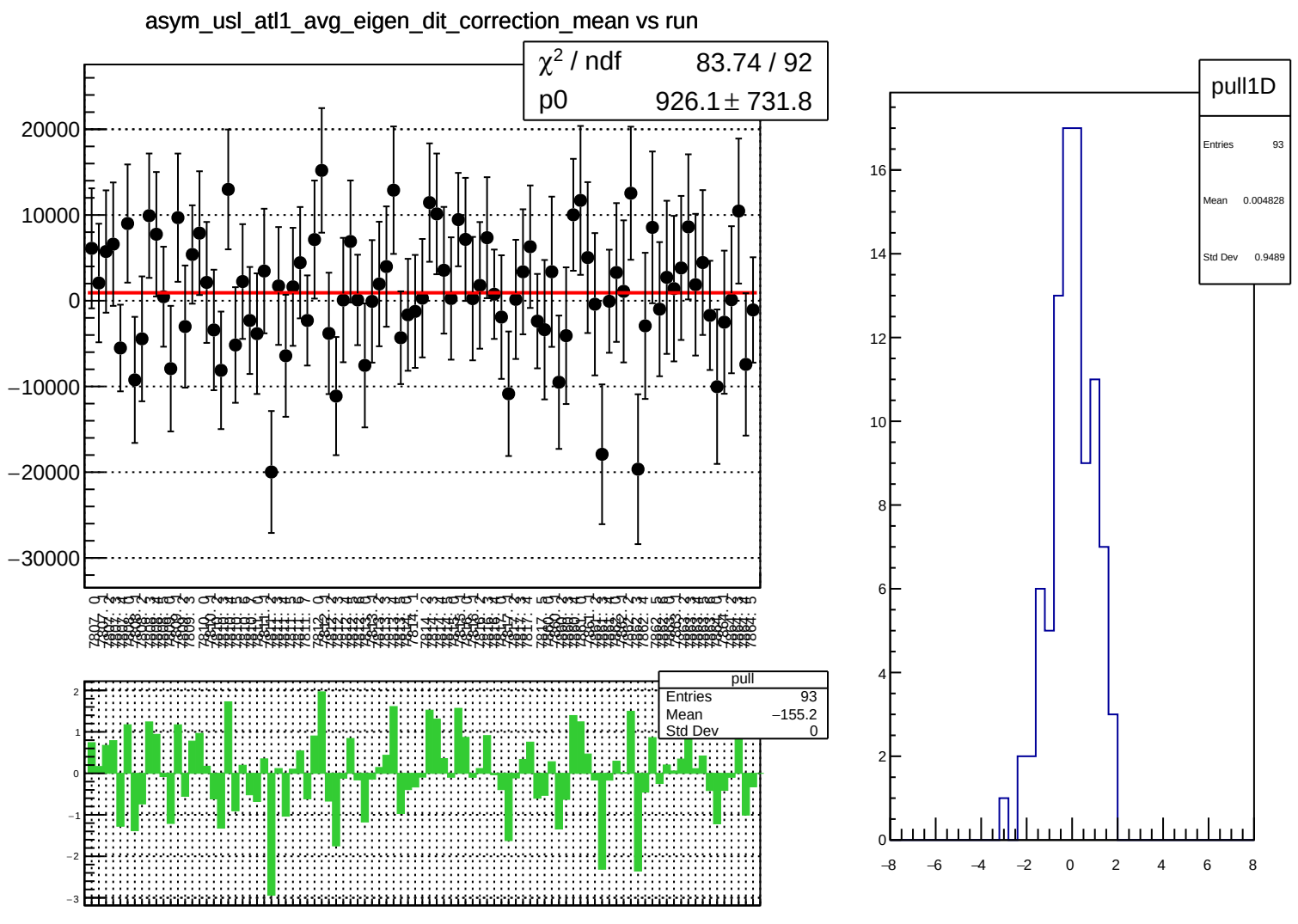
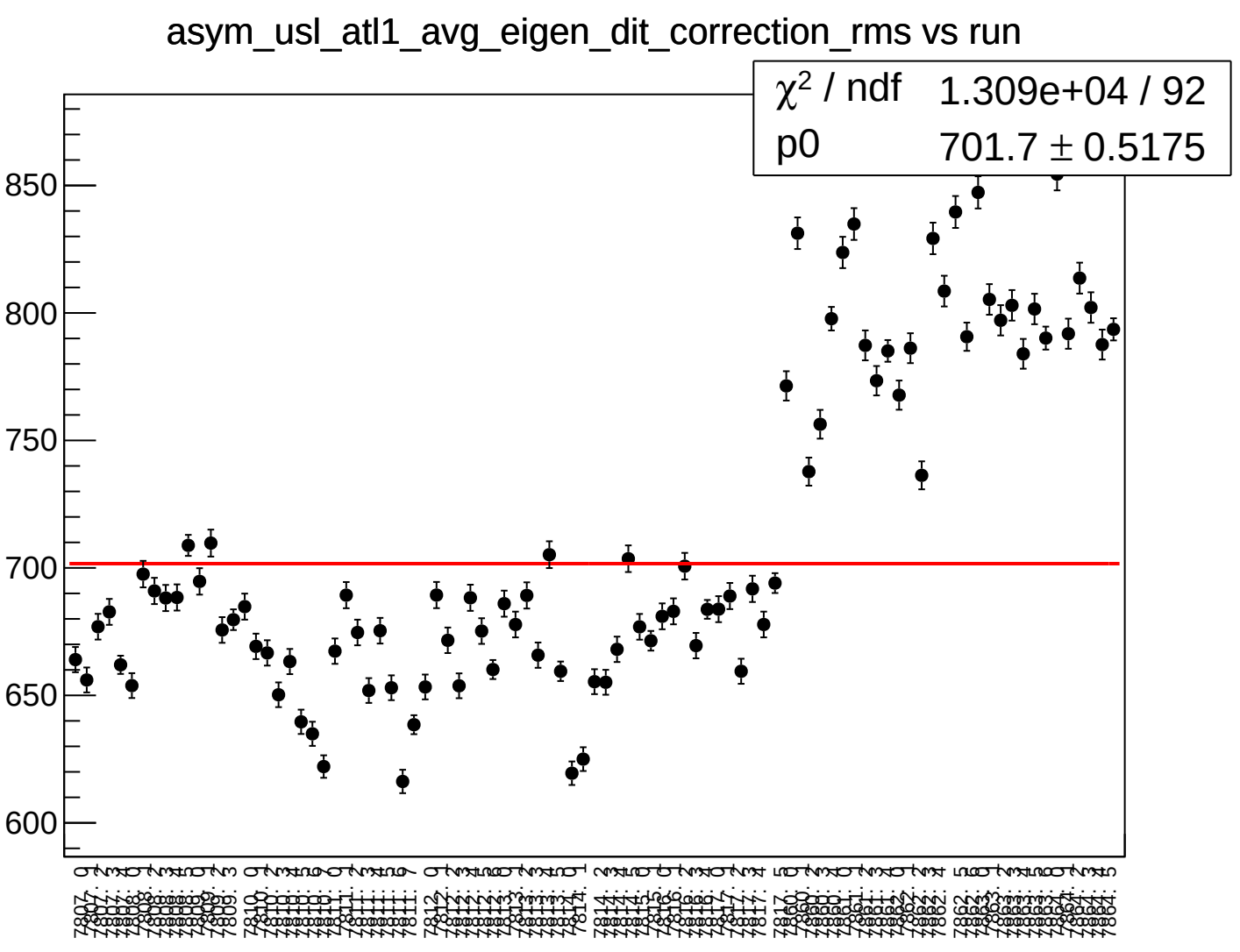
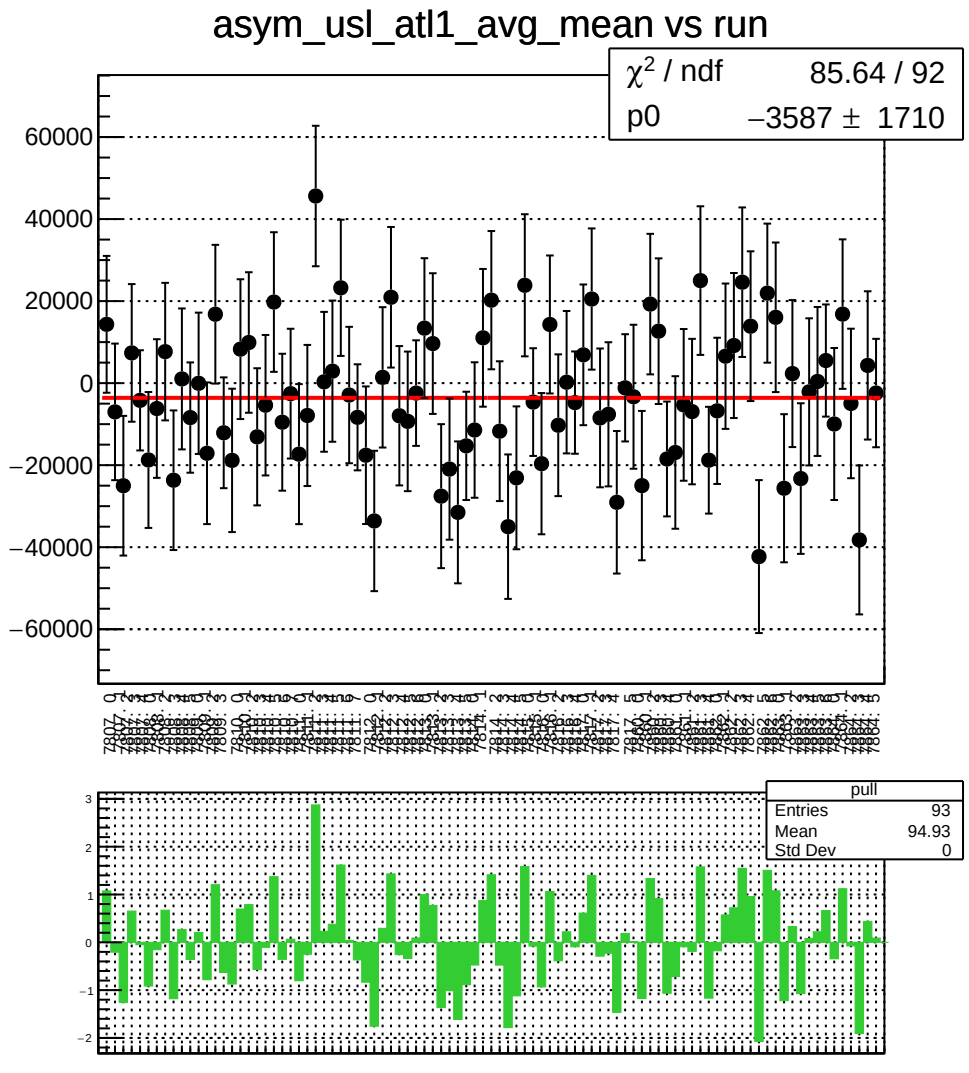
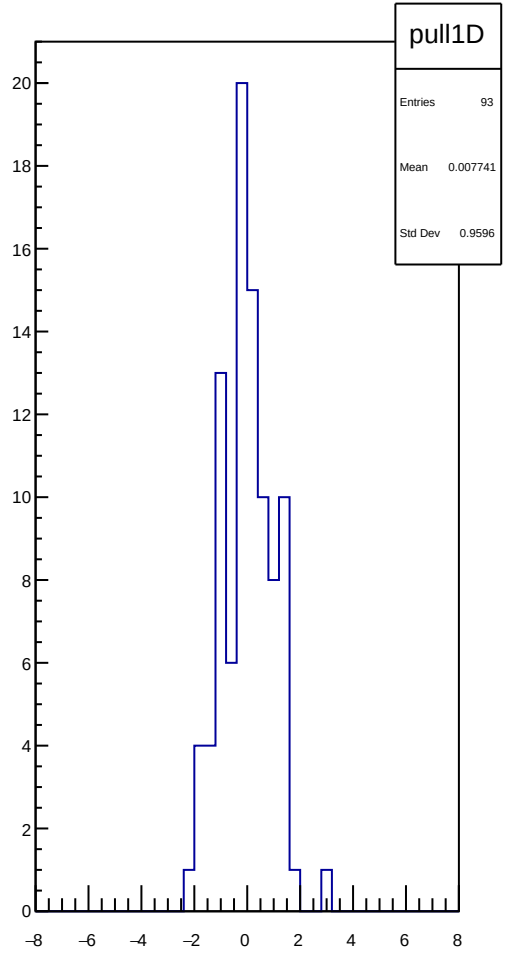
−8
−6
−4
−2
0
2
4
6
8

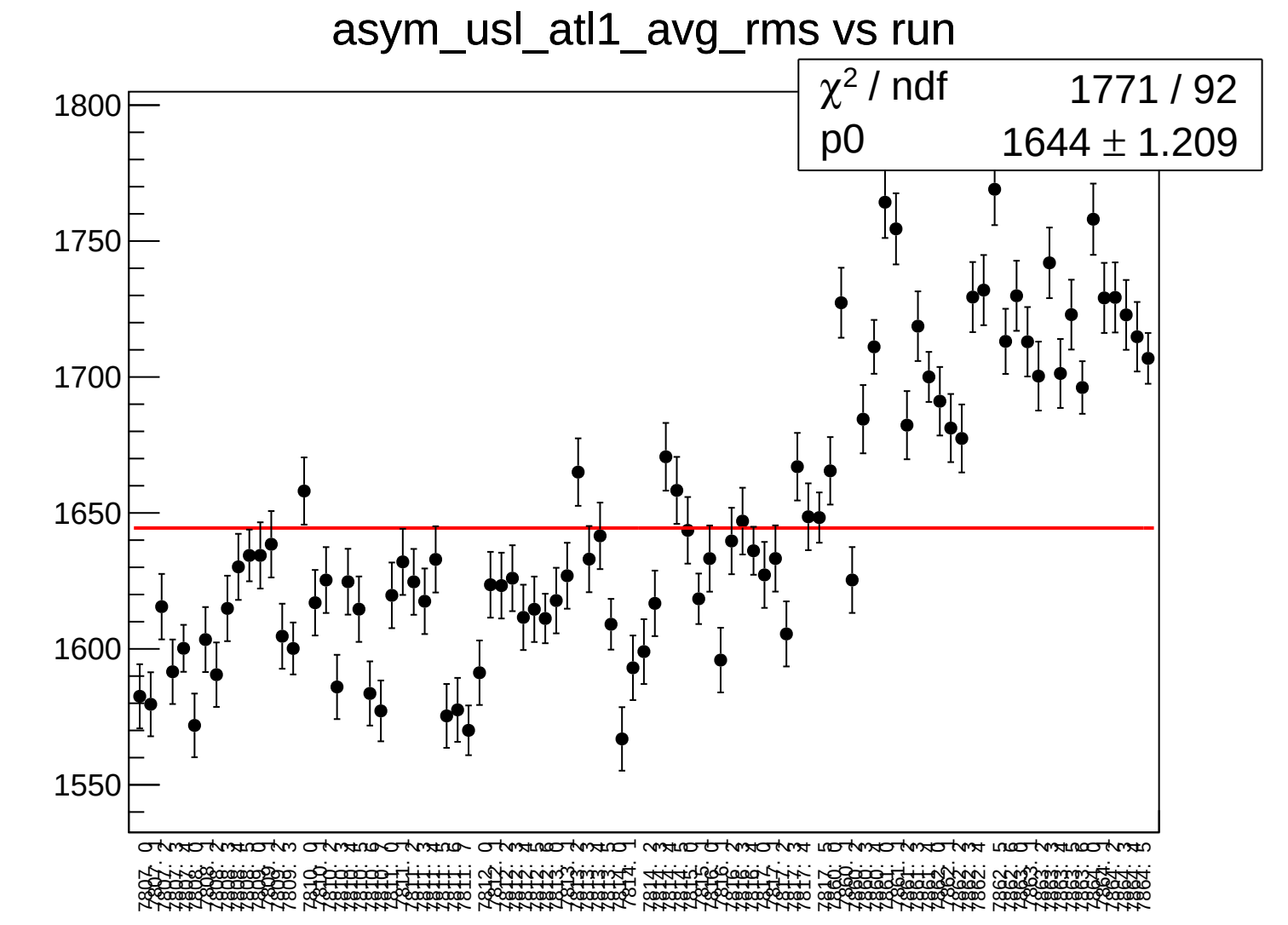

eigen_dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 160.8 / 92
p0 1456 ± 1.07
1500
1480
1460
1440
1420

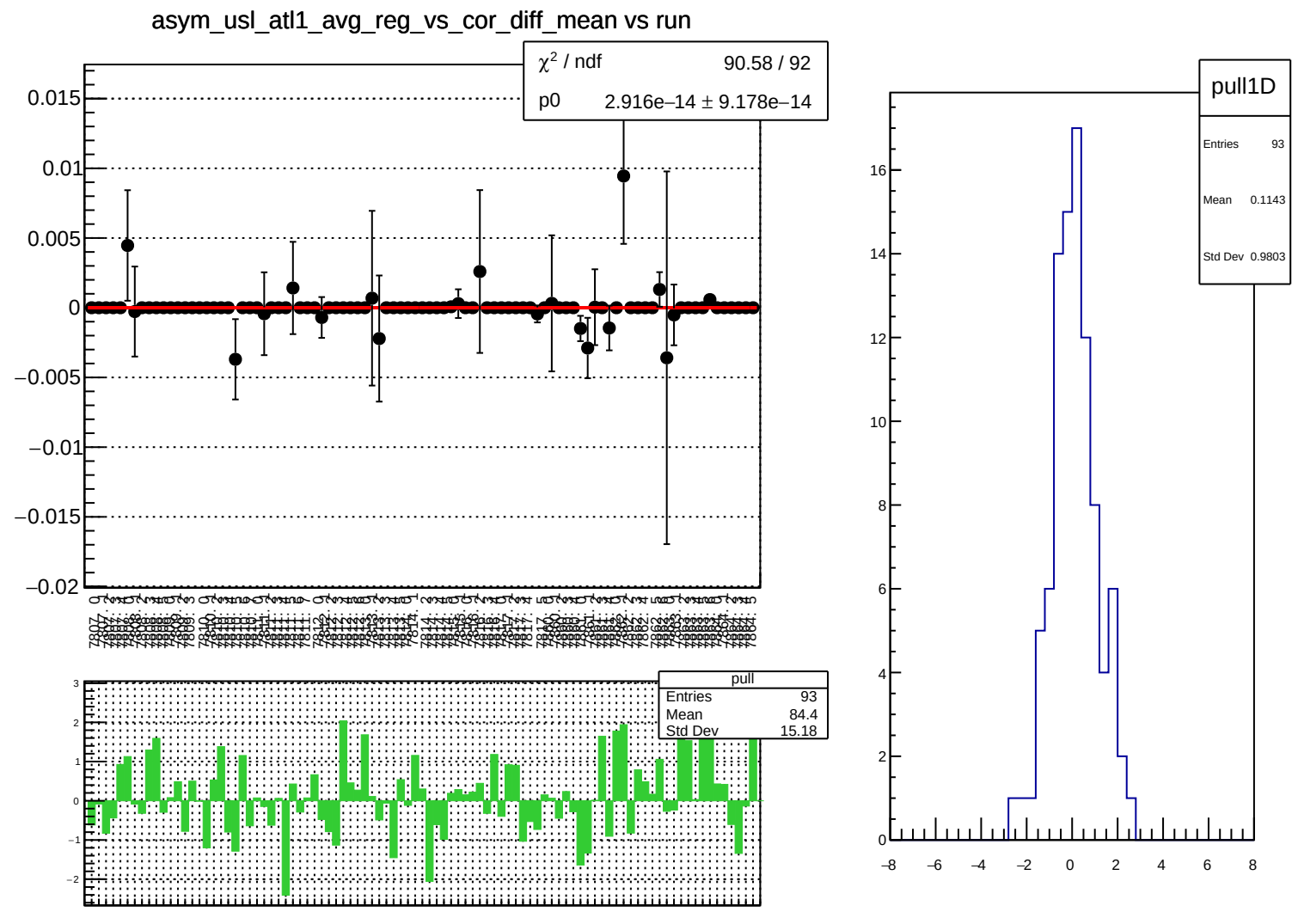

asym_usl_atl1_avg_eigen_dit_correction_mean vs run
χ² / ndf 83.74 / 92
p0 926.1 ± 731.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −155.2
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.004828
Std Dev 0.9489
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

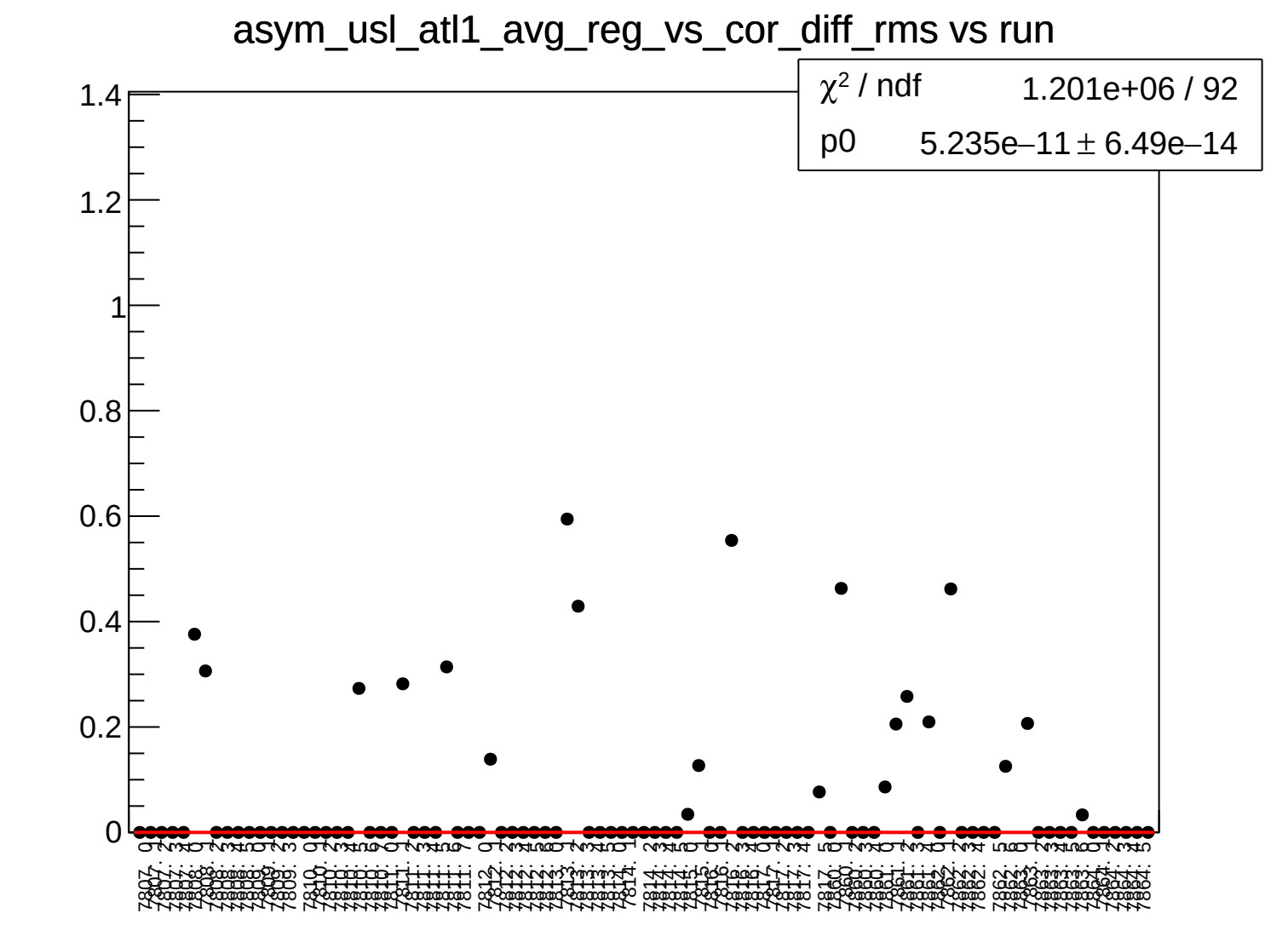

asym_usl_atl1_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.309e+04 / 92
p0 701.7 ± 0.5175
850
800
750
700
650
600

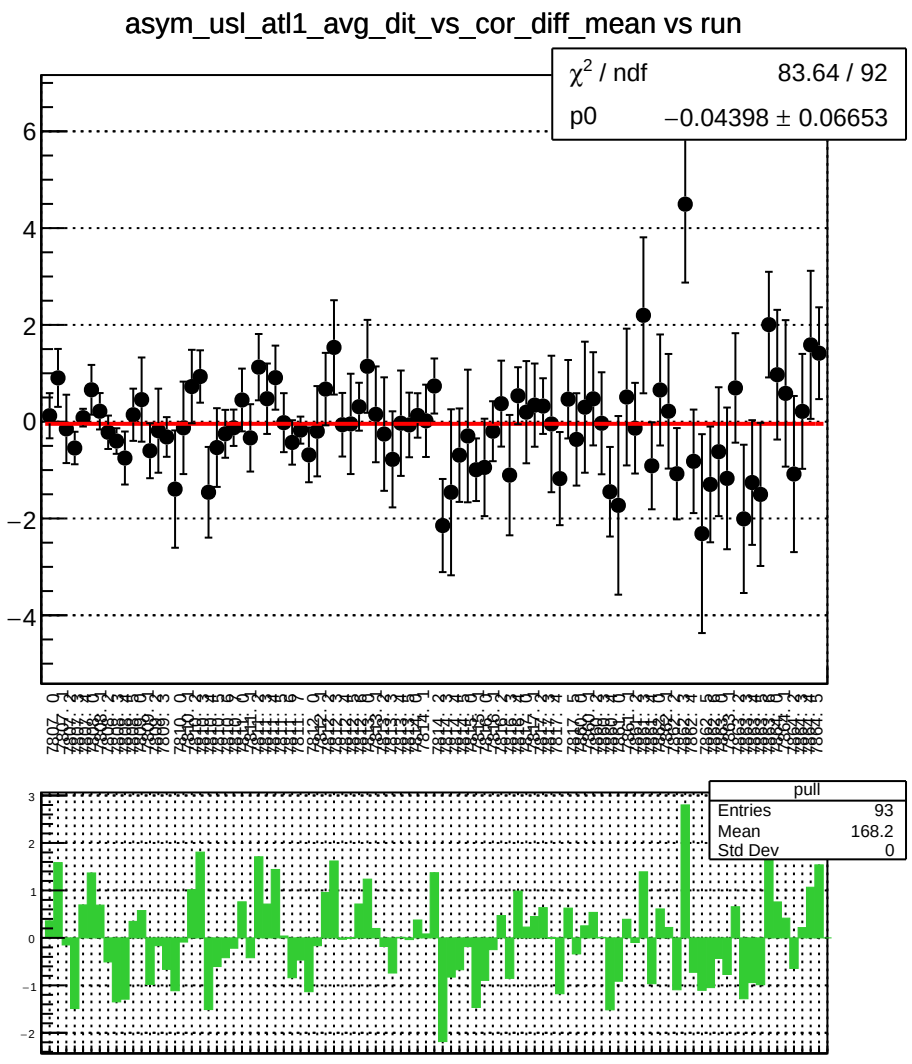

asym_usl_atl1_avg_mean vs run
χ² / ndf 85.64 / 92
p0 −3587 ± 1710
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 94.93
Std Dev 0
3
2
1
0
−1
−2

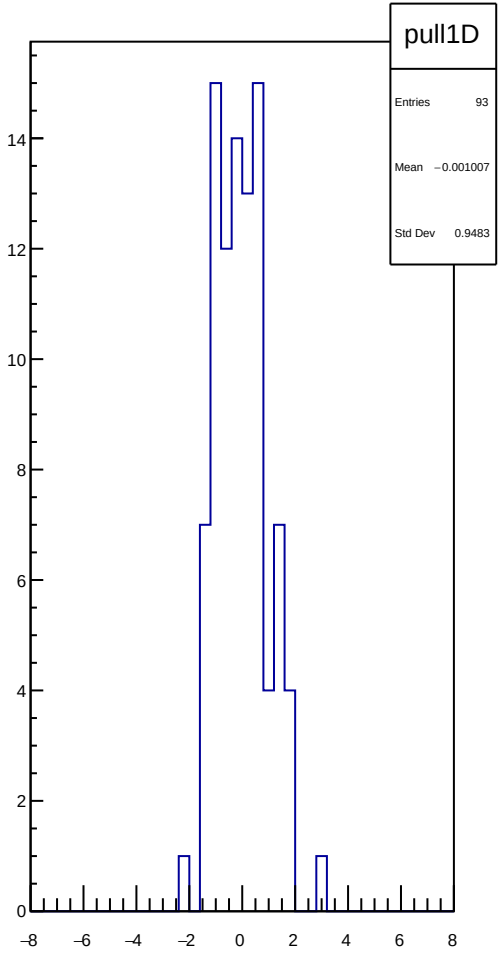

pull1D
Entries 93
Mean 0.007741
Std Dev 0.9596
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

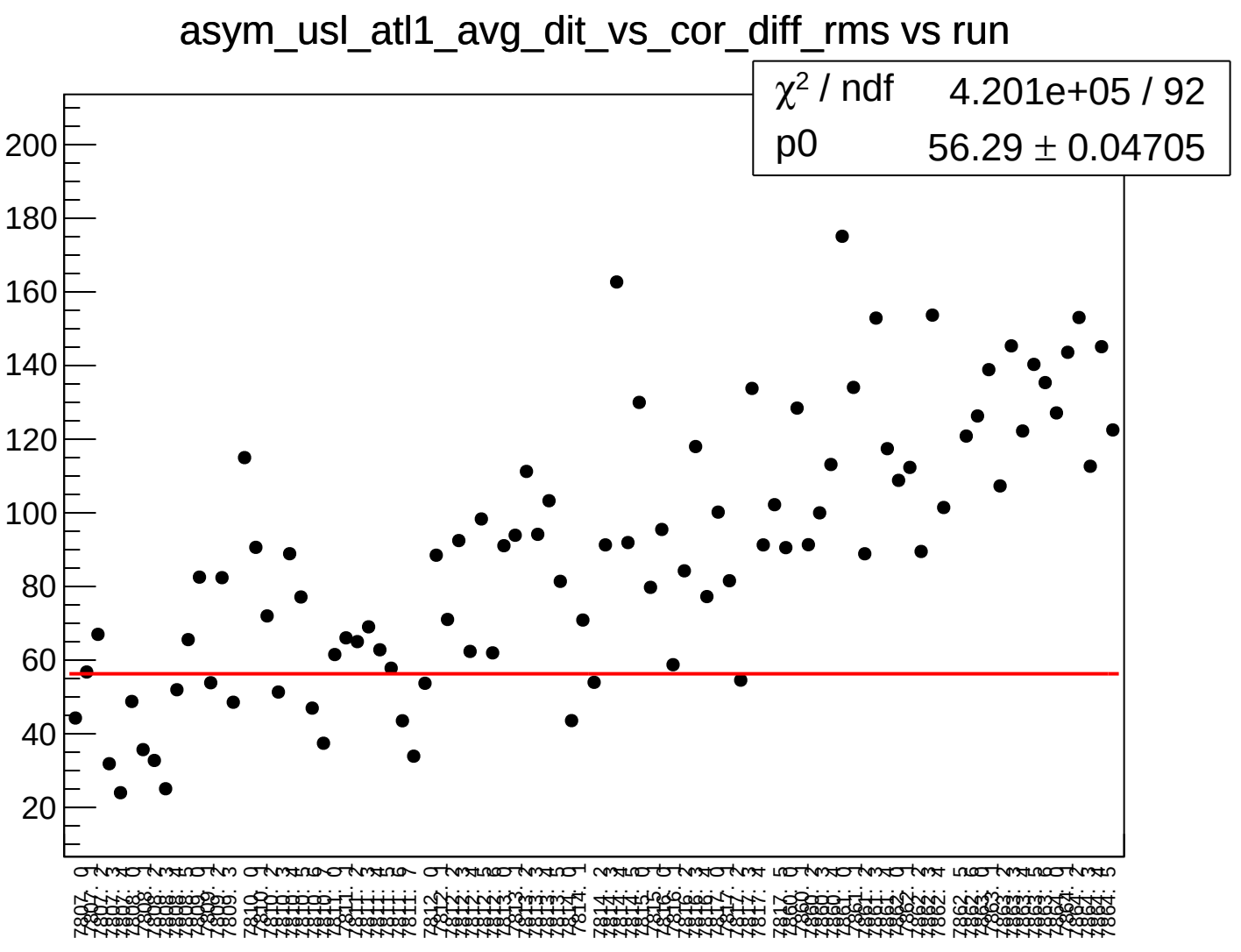

asym_usl_atl1_avg_rms vs run
χ² / ndf 1771 / 92
p0 1644 ± 1.209
1800
1750
1700
1650
1600
1550

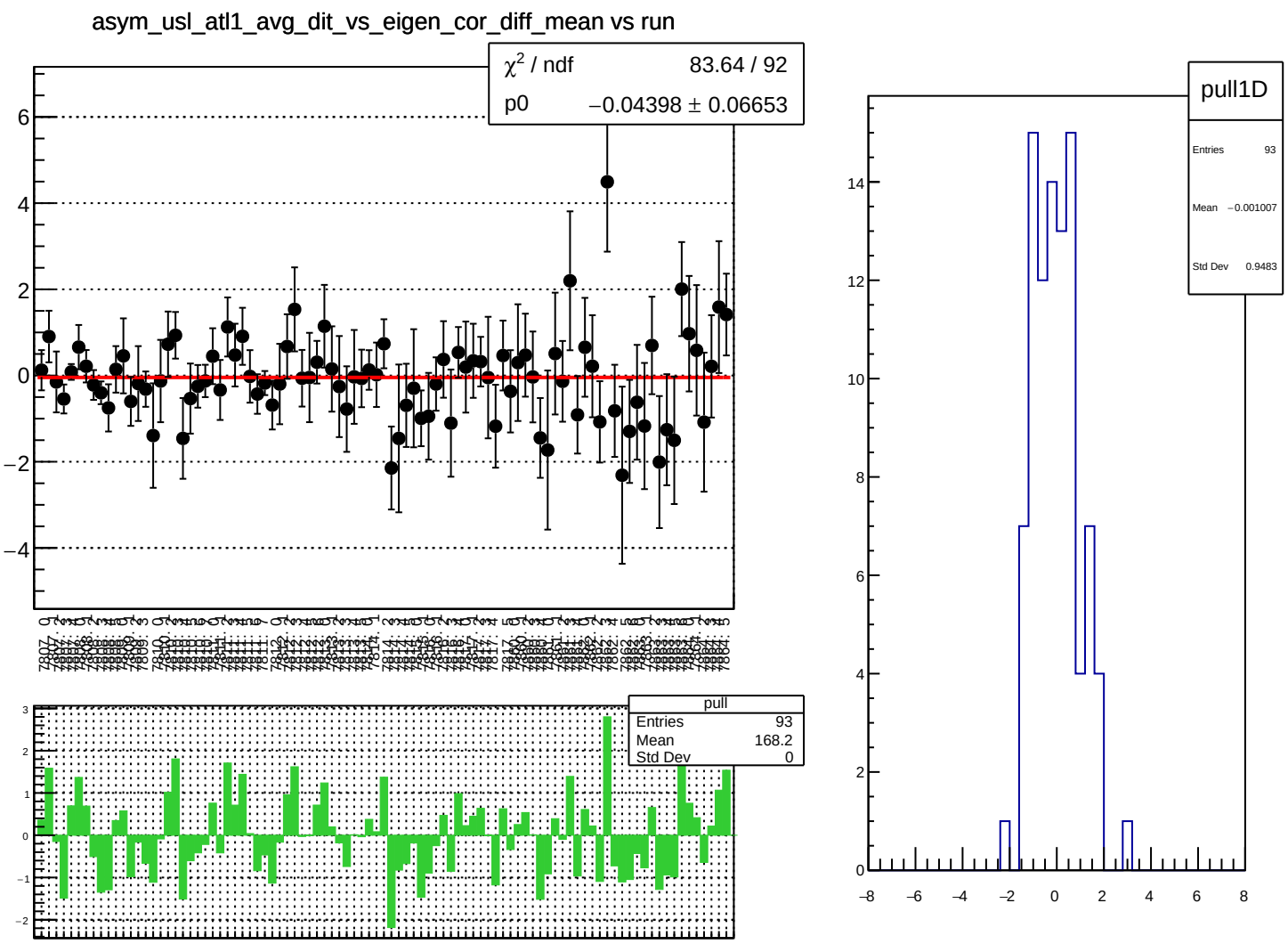

asym_usl_atl1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 90.58 / 92
p0 2.916e−14 ± 9.178e−14
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 93
Mean 84.4
Std Dev 15.18
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.1143
Std Dev 0.9803
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

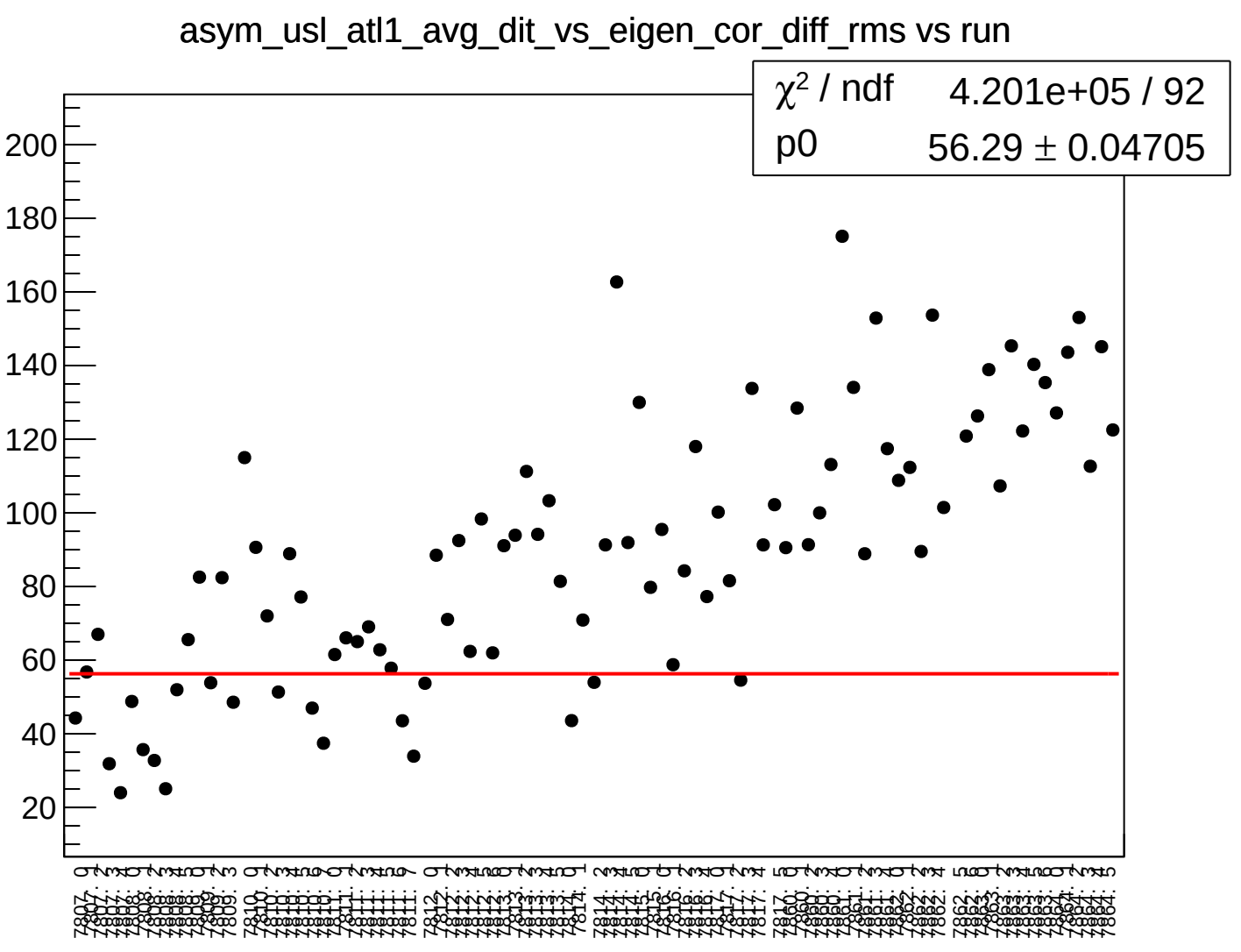

asym_usl_atl1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.201e+06 / 92
p0 5.235e−11 ± 6.49e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

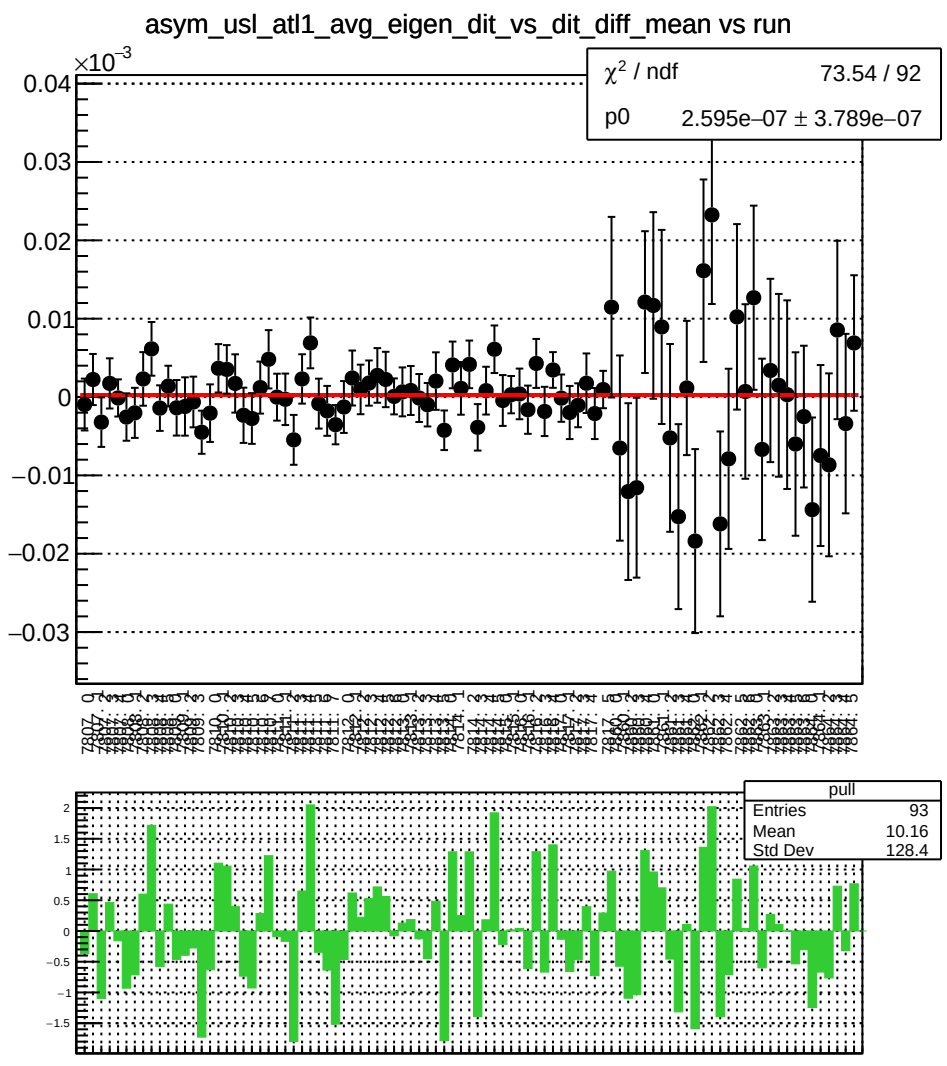

asym_usl_atl1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 83.64 / 92
p0 −0.04398 ± 0.06653
pull
Entries 93
Mean 168.2
Std Dev 0

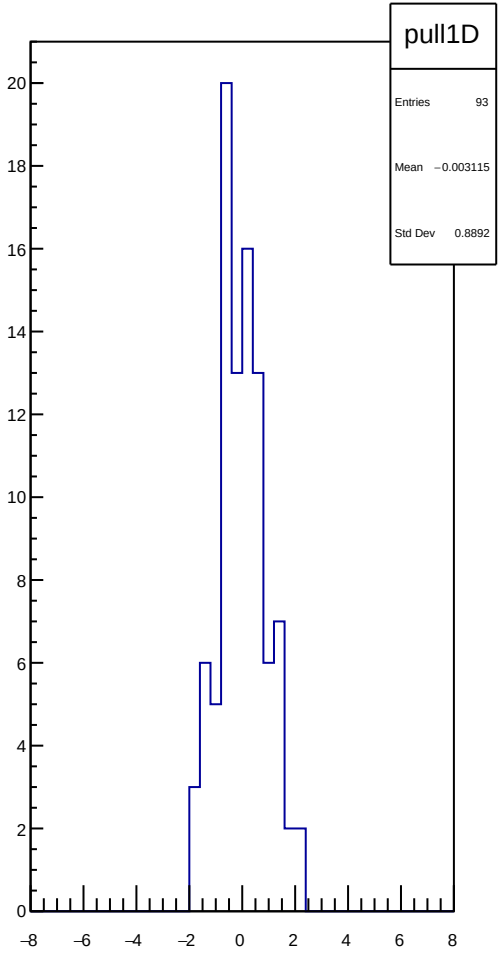

pull1D
Entries 93
Mean −0.001007
Std Dev 0.9483

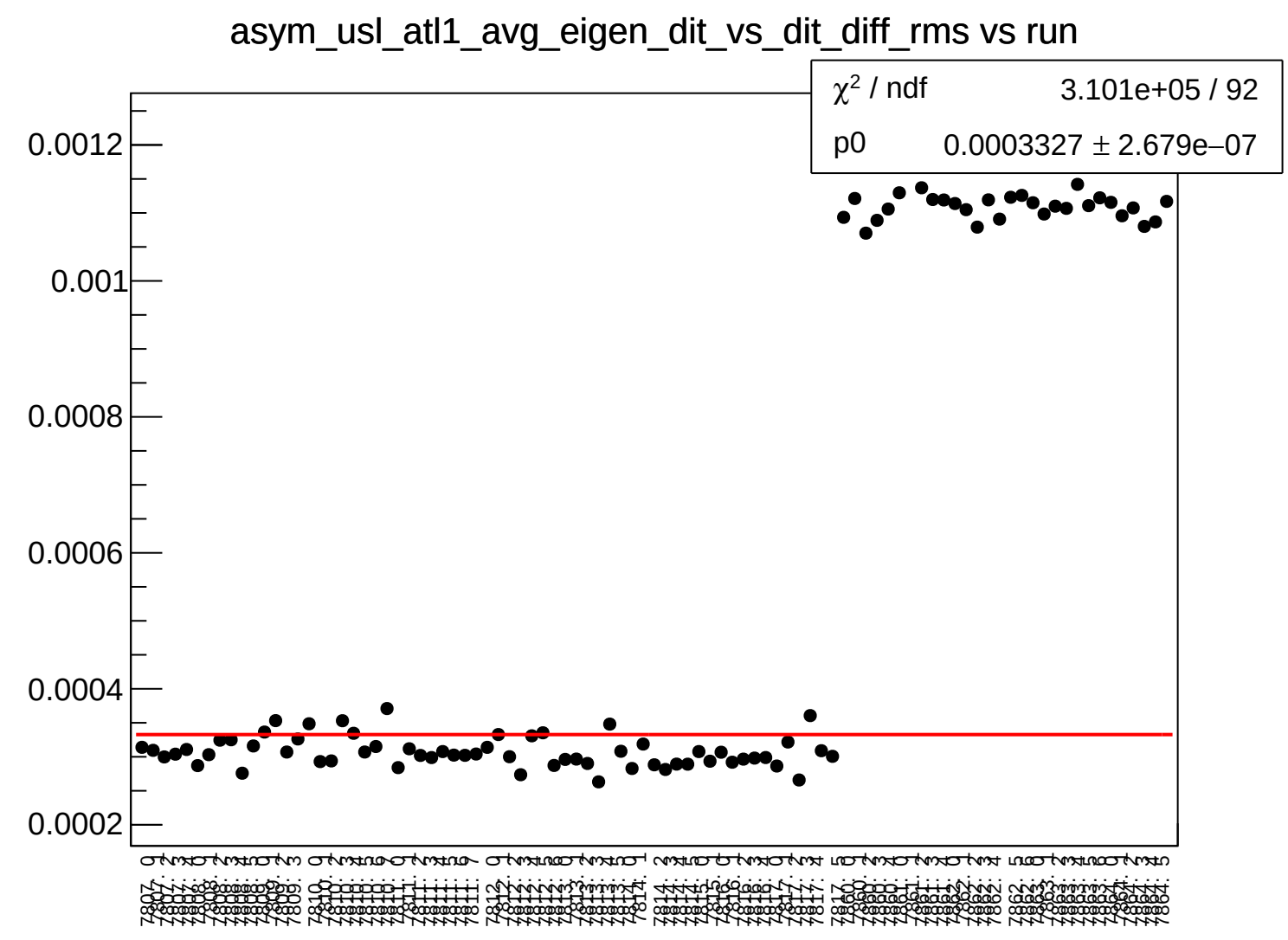

asym_usl_atl1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.201e+05 / 92
p0 56.29 ± 0.04705
200
180
160
140
120
100
80
60
40
20

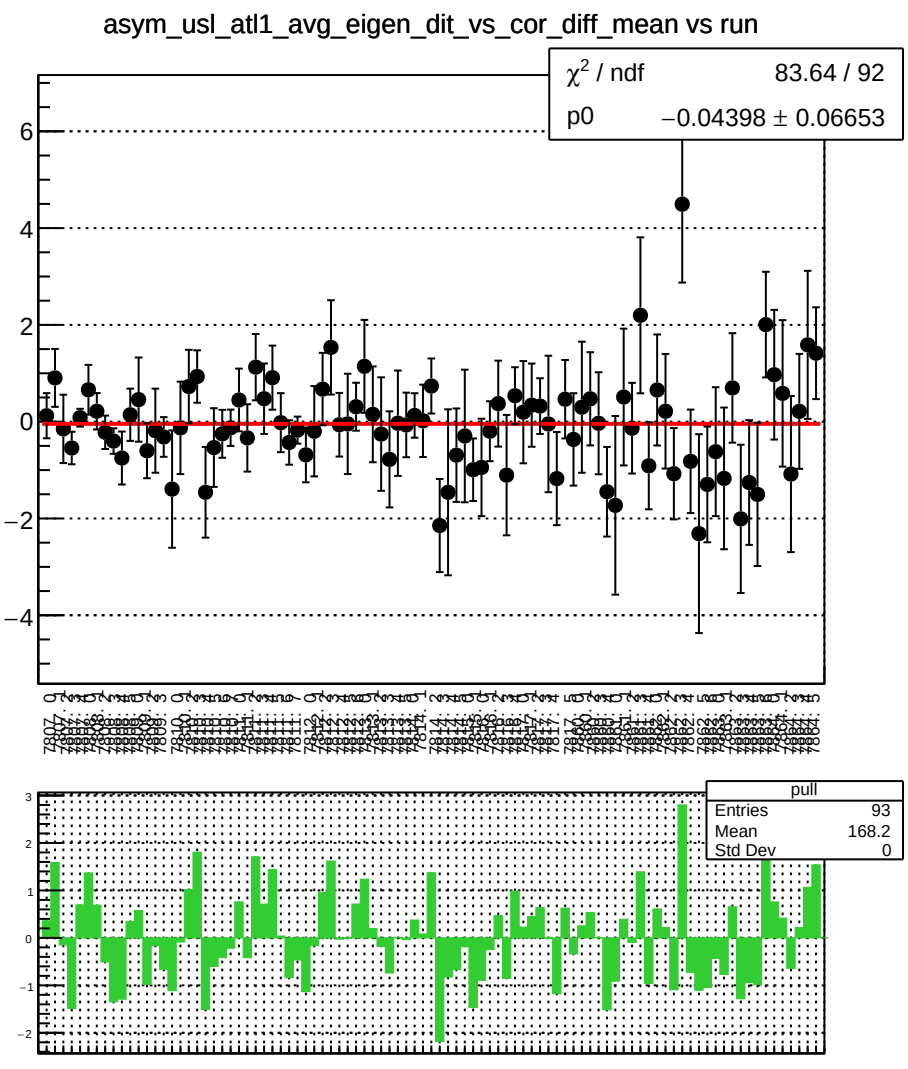

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.64 / 92
p0 −0.04398 ± 0.06653
pull
Entries 93
Mean 168.2
Std Dev 0
pull1D
Entries 93
Mean −0.001007
Std Dev 0.9483

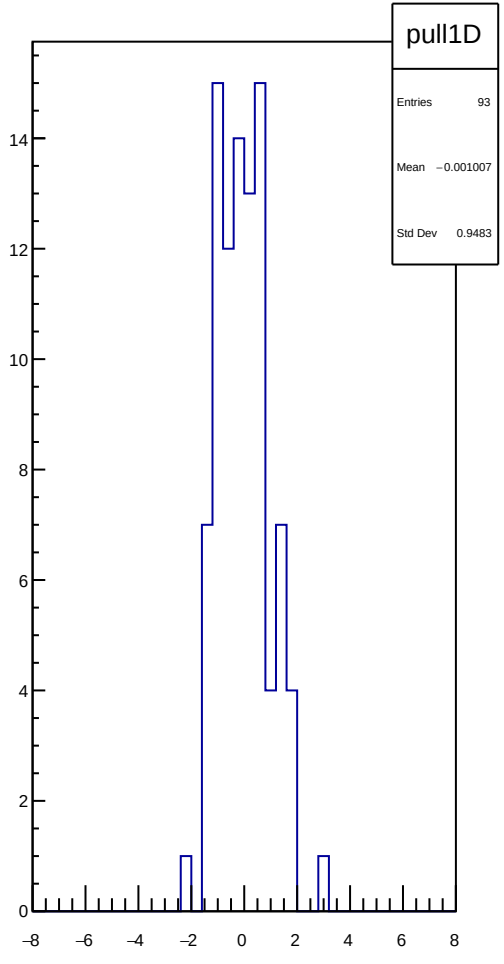

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.201e+05 / 92
p0 56.29 ± 0.04705
200
180
160
140
120
100
80
60
40
20

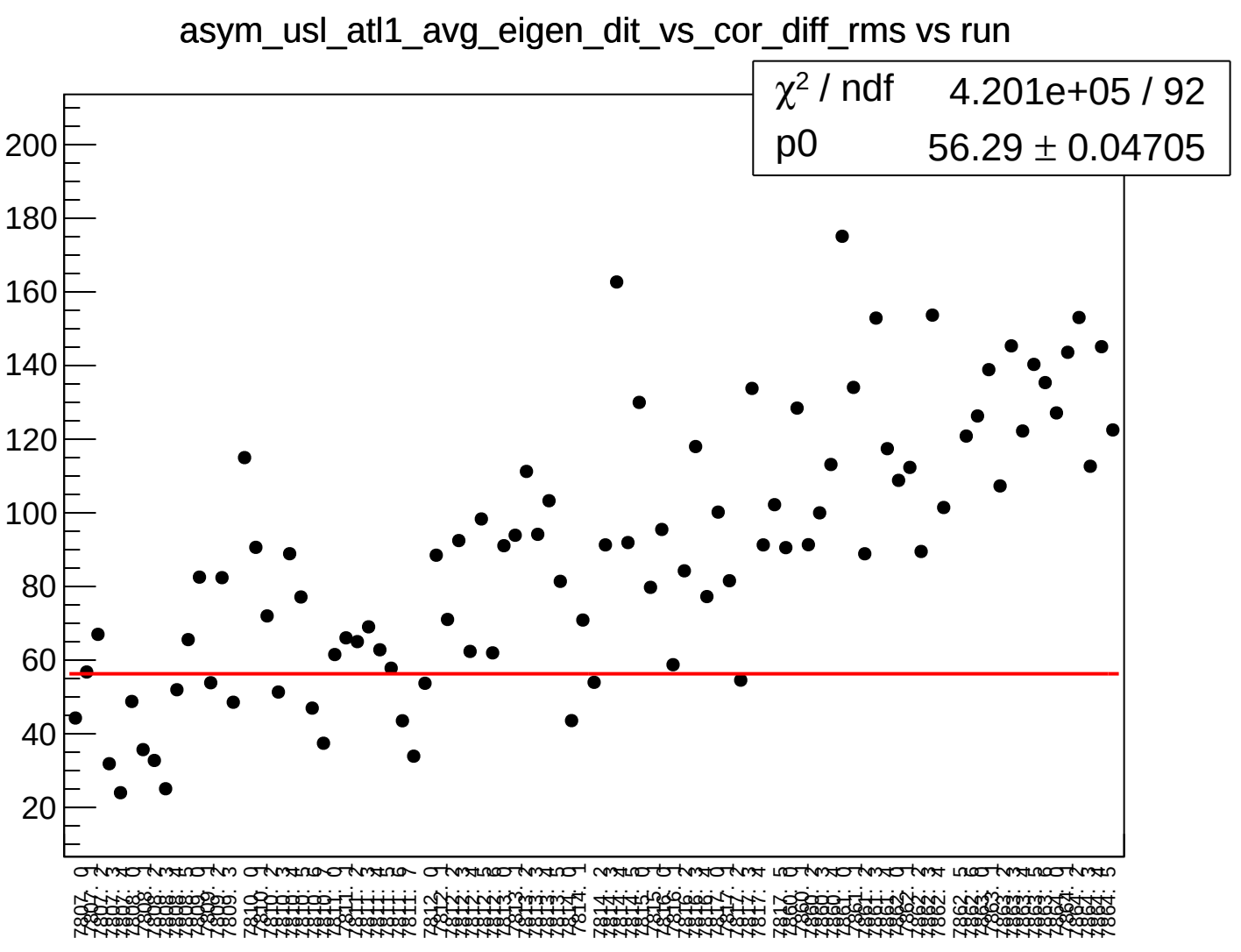

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.54 / 92
p0 2.595e−07 ± 3.789e−07
pull
Entries 93
Mean 10.16
Std Dev 128.4

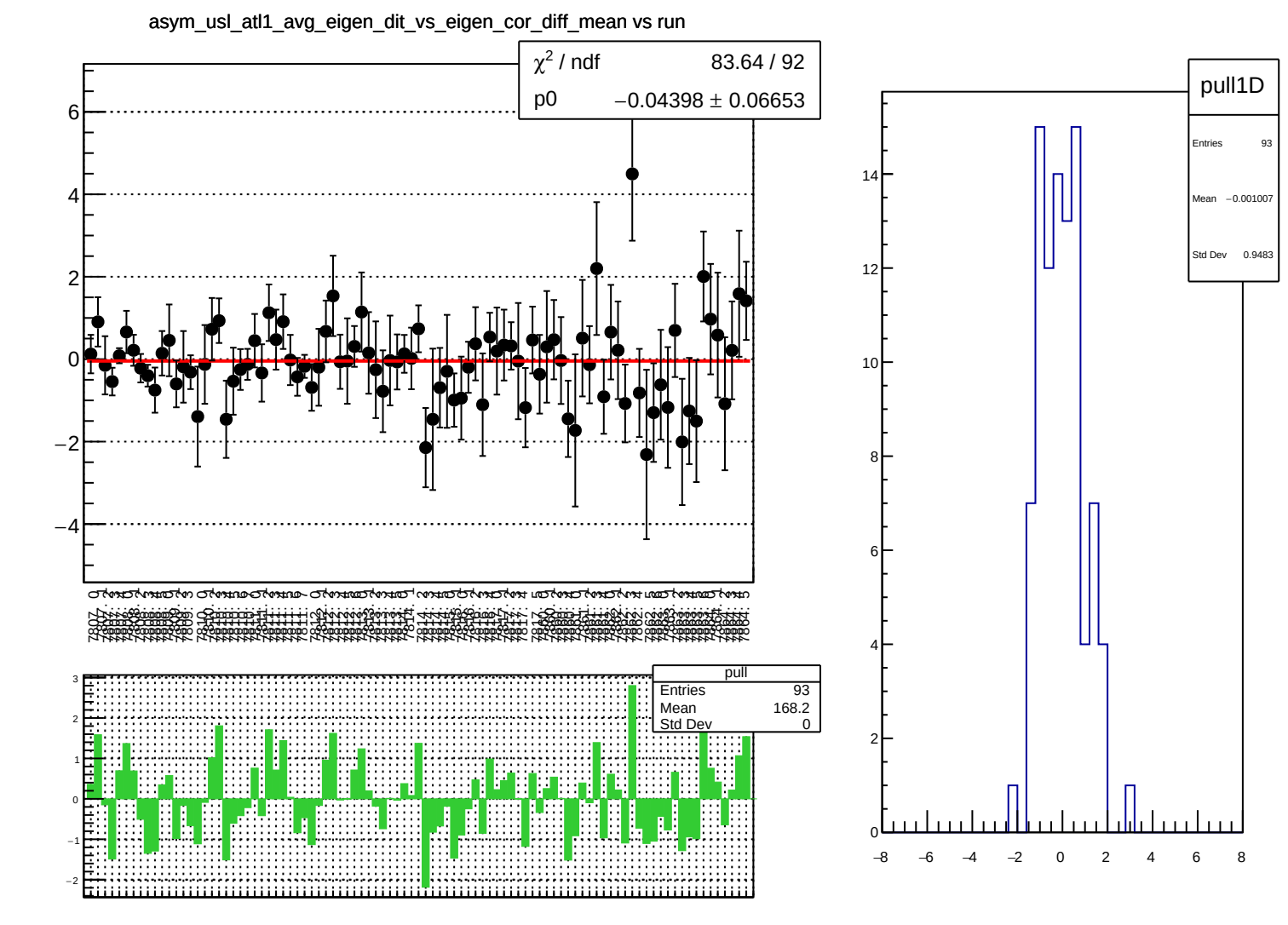

pull1D
Entries 93
Mean −0.003115
Std Dev 0.8892

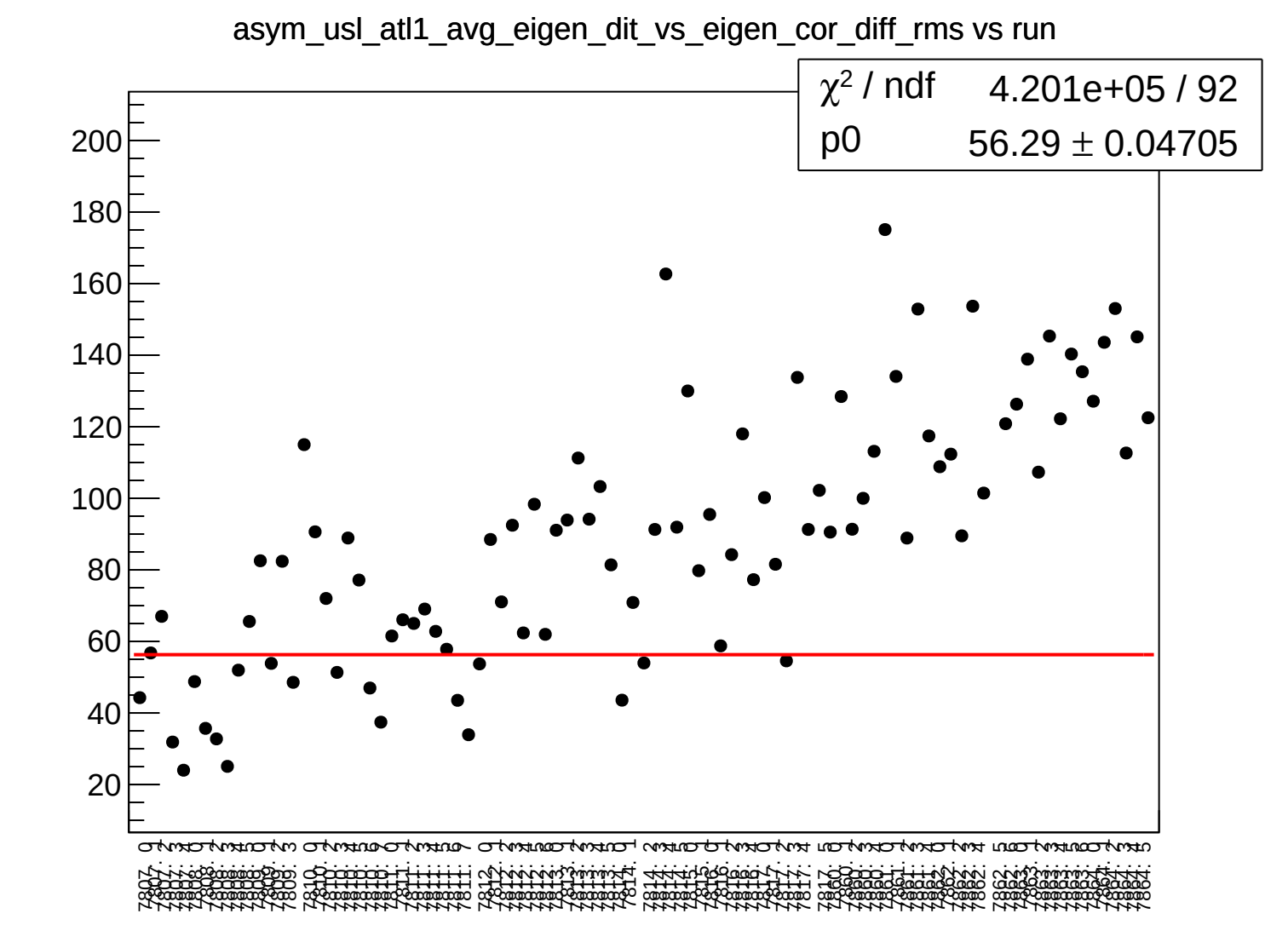

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.101e+05 / 92
p0 0.0003327 ± 2.679e−07
0.0012
0.001
0.0008
0.0006
0.0004
0.0002

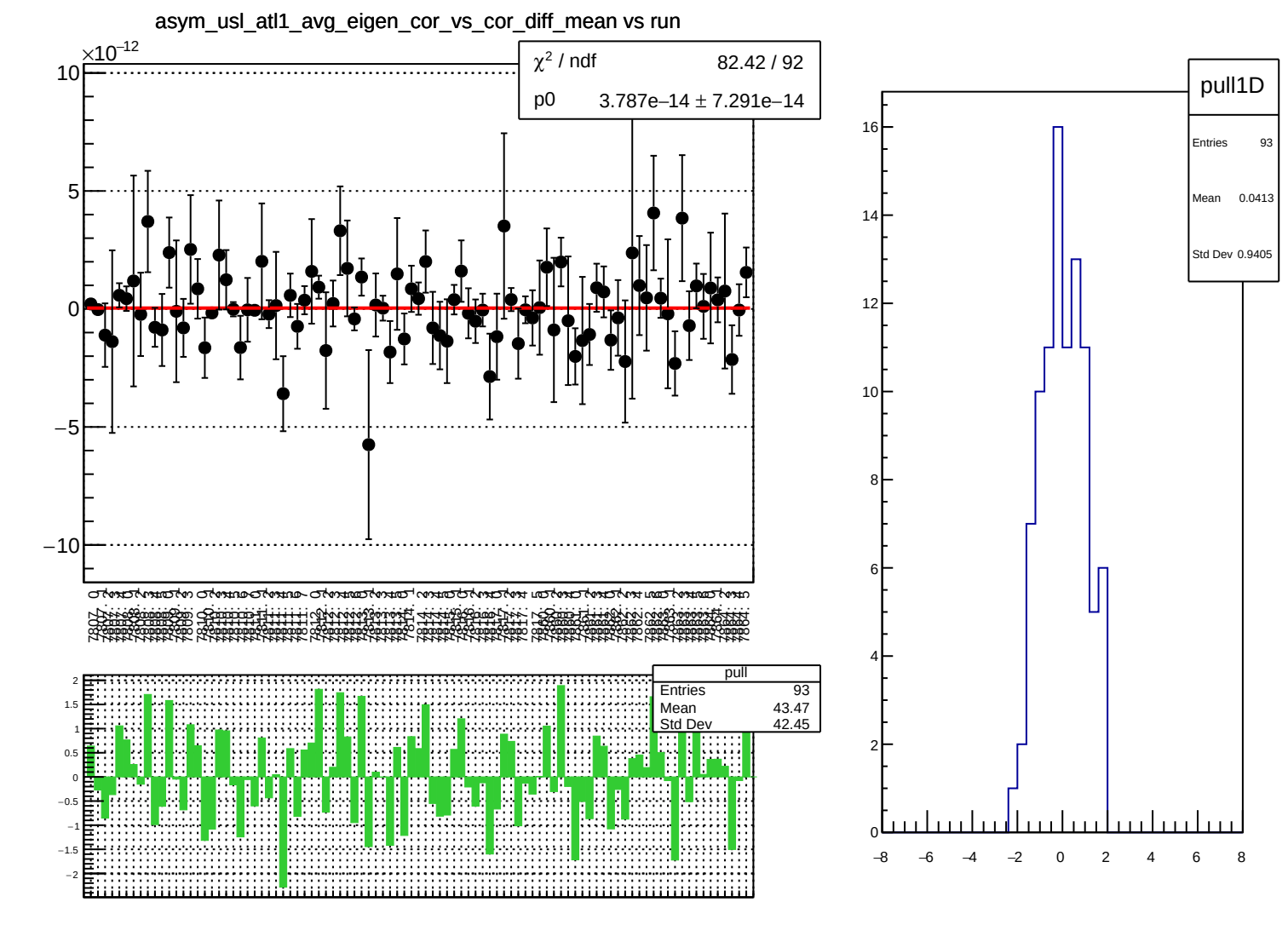

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.64 / 92
p0 −0.04398 ± 0.06653
pull
Entries 93
Mean 168.2
Std Dev 0

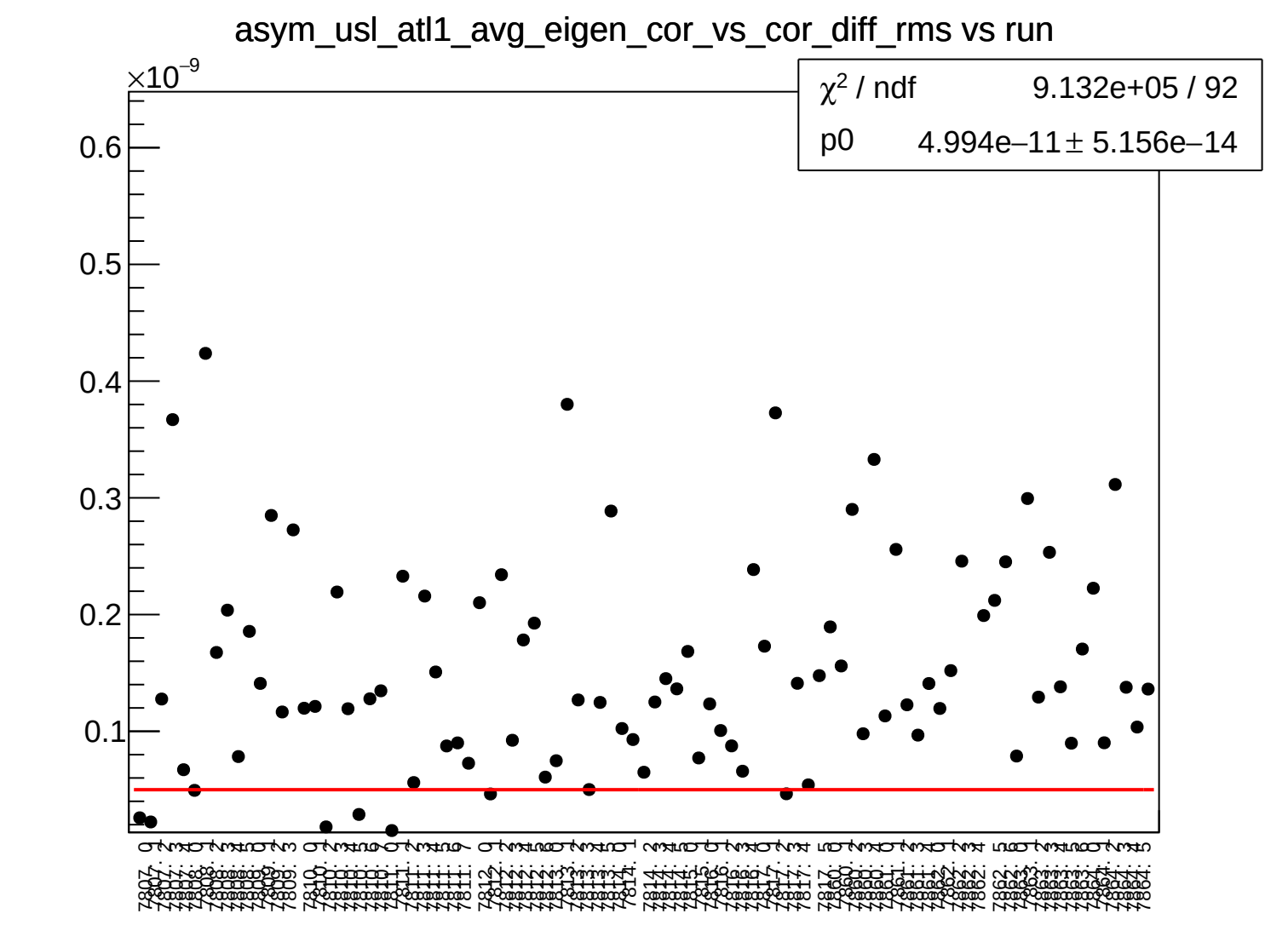

pull1D
Entries 93
Mean −0.001007
Std Dev 0.9483

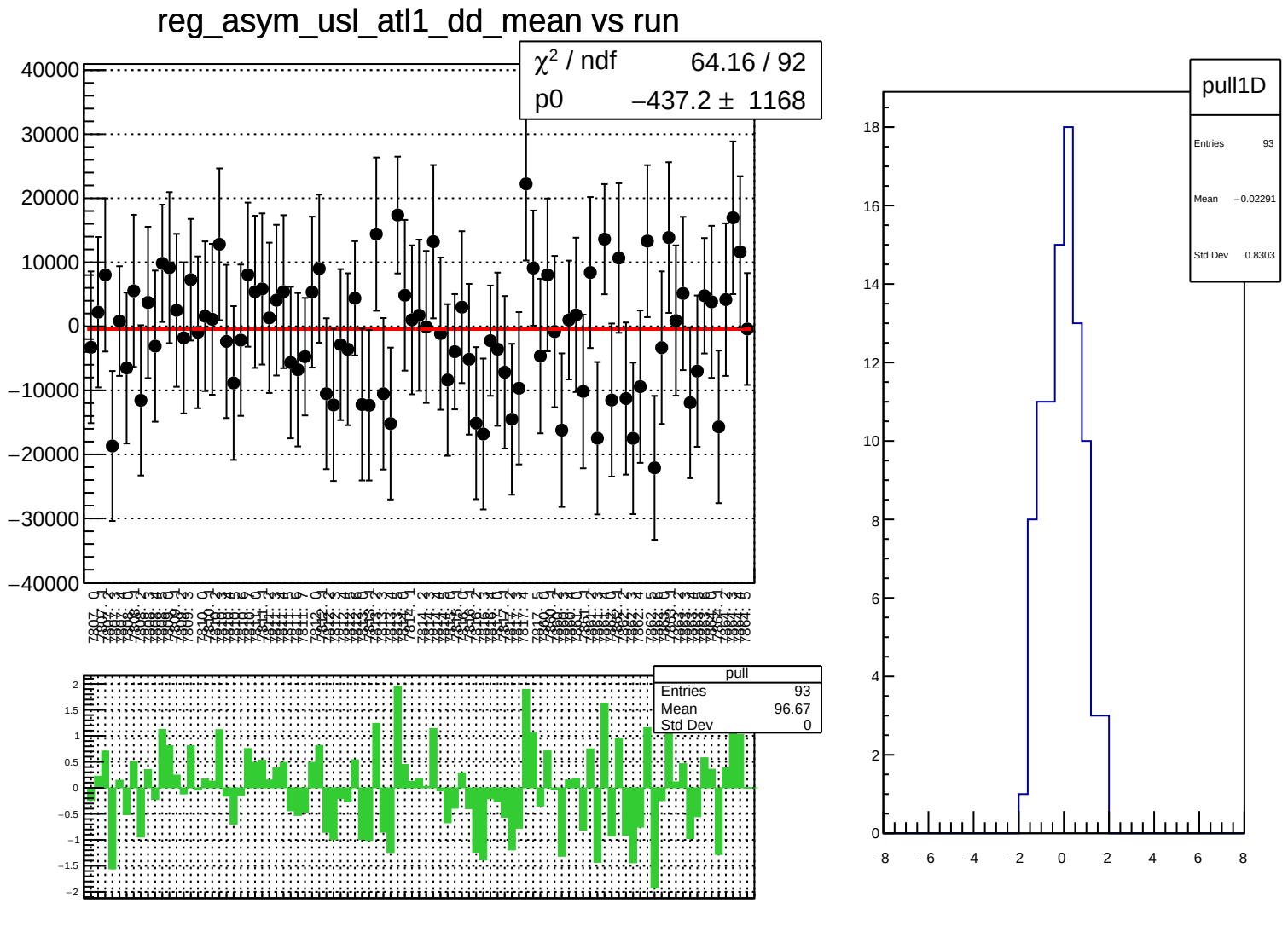

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.201e+05 / 92
p0 56.29 ± 0.04705
200
180
160
140
120
100
80
60
40
20

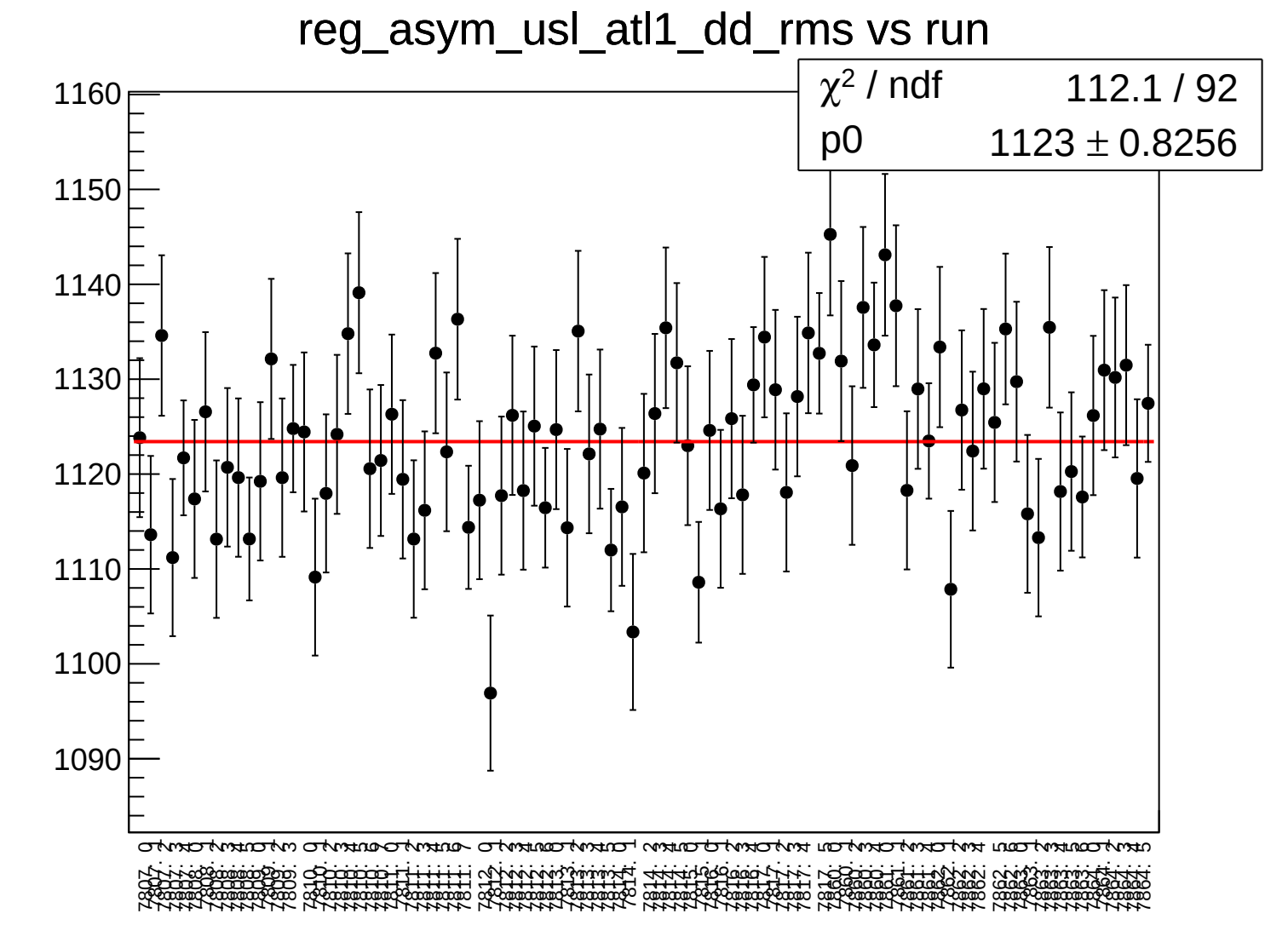

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.64 / 92
p0 −0.04398 ± 0.06653
pull
Entries 93
Mean 168.2
Std Dev 0
pull1D
Entries 93
Mean −0.001007
Std Dev 0.9483

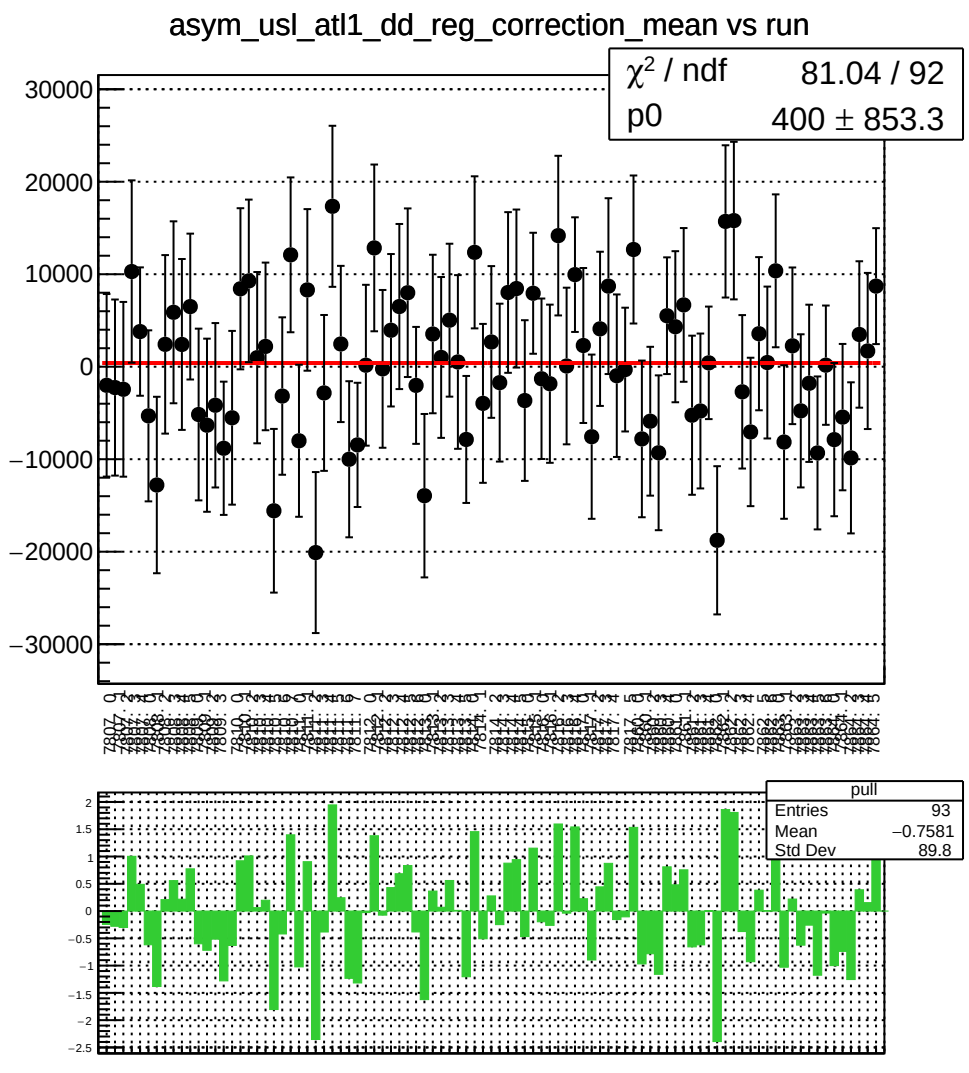

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.201e+05 / 92
p0 56.29 ± 0.04705
200
180
160
140
120
100
80
60
40
20

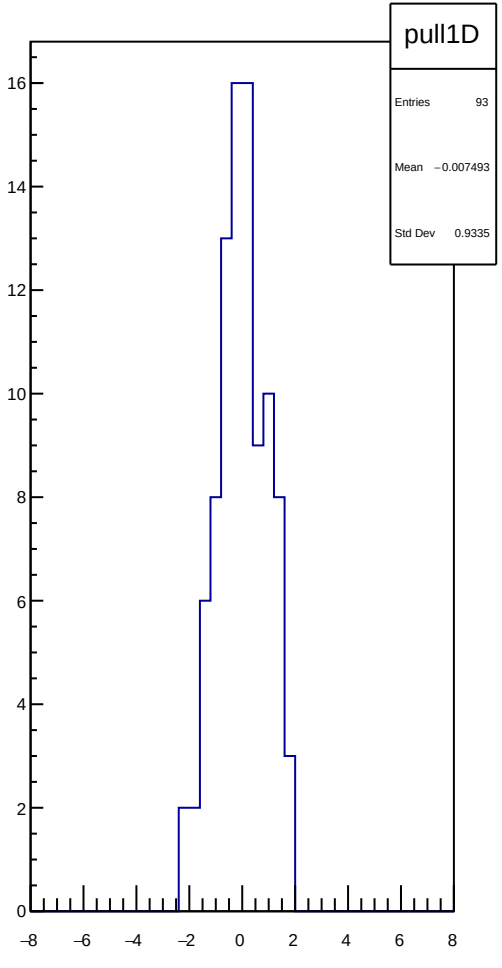

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.42 / 92
p0 3.787e−14 ± 7.291e−14
pull
Entries 93
Mean 43.47
Std Dev 42.45
pull1D
Entries 93
Mean 0.0413
Std Dev 0.9405

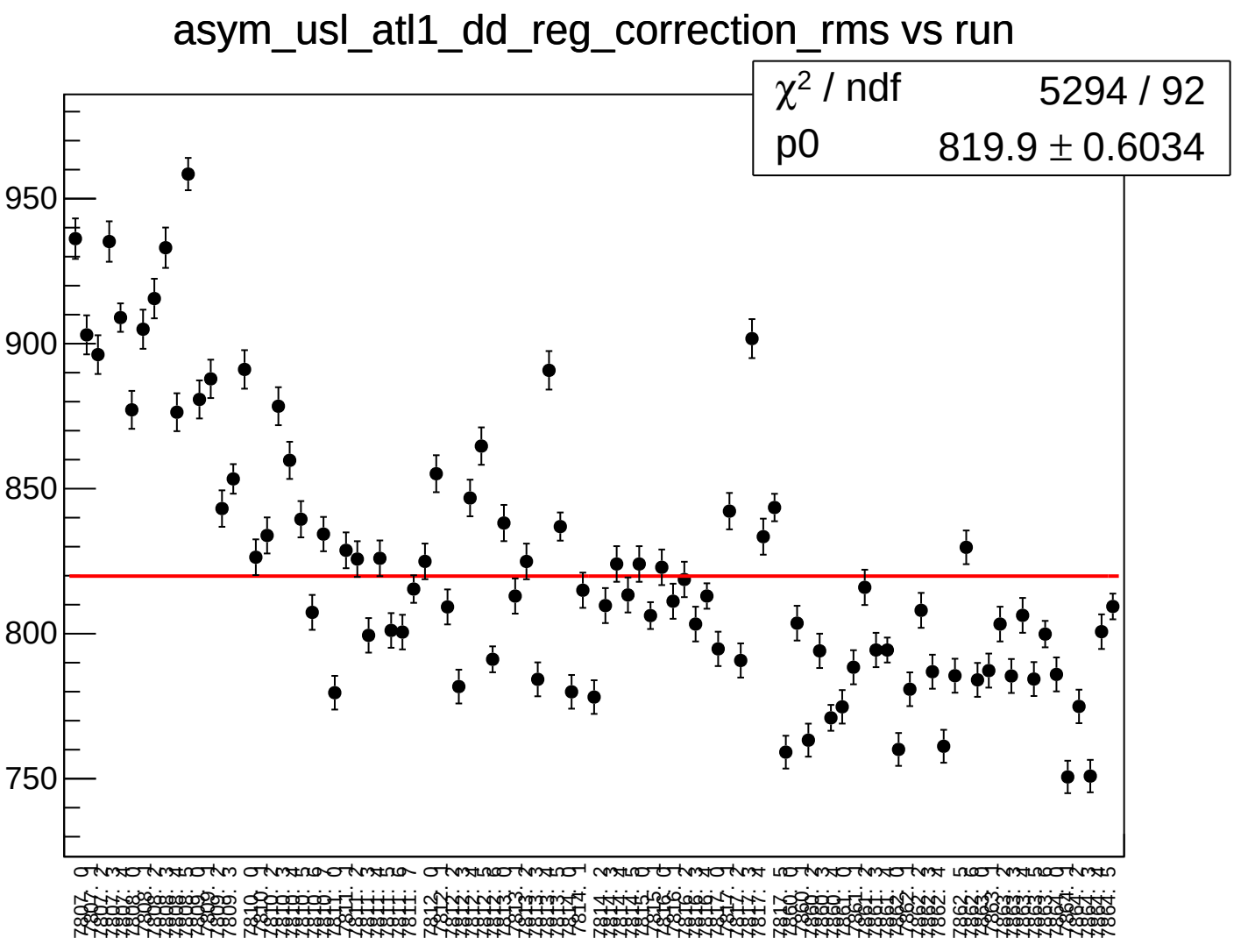

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.132e+05 / 92
p0 4.994e−11 ± 5.156e−14
0.6
0.5
0.4
0.3
0.2
0.1

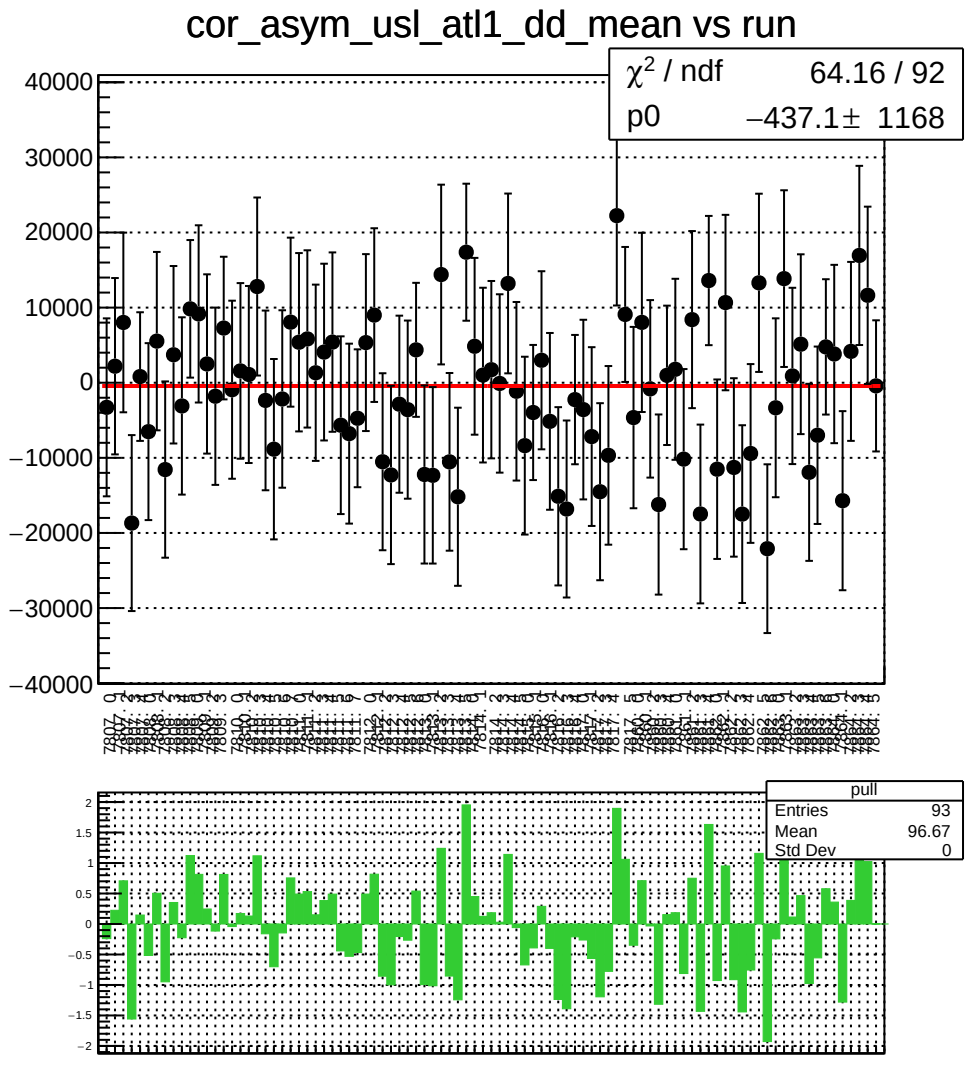

reg_asym_usl_atl1_dd_mean vs run
χ² / ndf 64.16 / 92
p0 −437.2 ± 1168
pull
Entries 93
Mean 96.67
Std Dev 0
pull1D
Entries 93
Mean −0.02291
Std Dev 0.8303

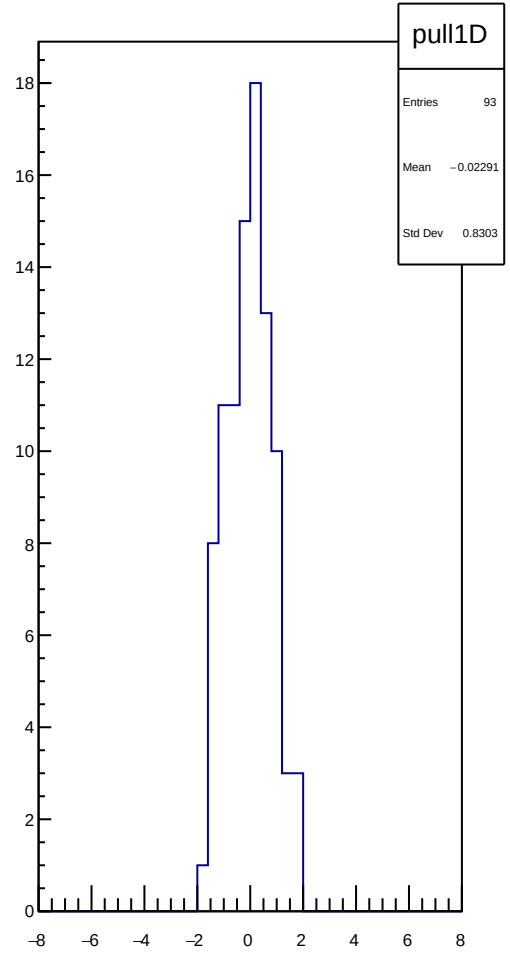

reg_asym_usl_atl1_dd_rms vs run
χ² / ndf 112.1 / 92
p0 1123 ± 0.8256
1160
1150
1140
1130
1120
1110
1100
1090

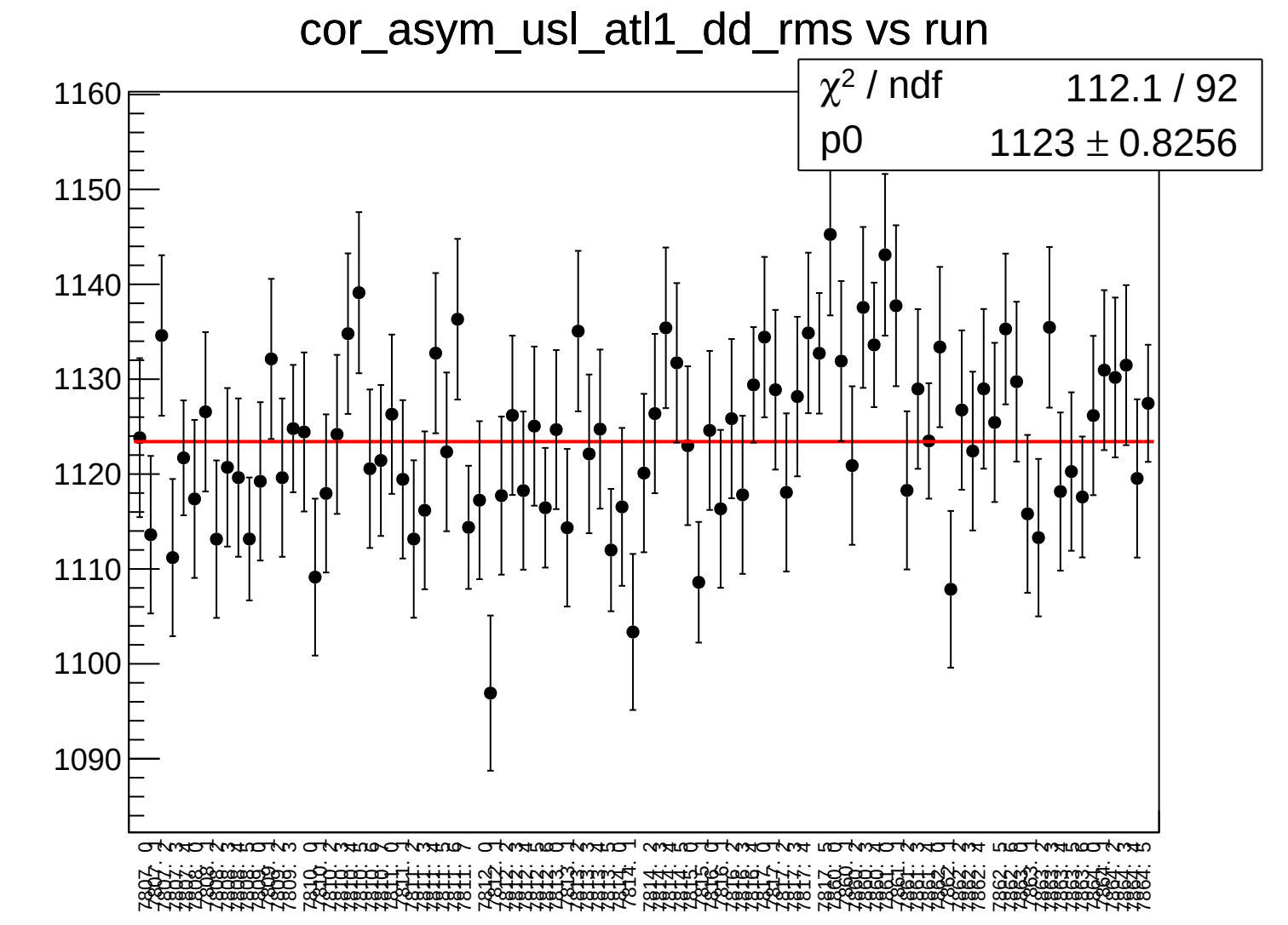

asym_usl_atl1_dd_reg_correction_mean vs run
χ² / ndf 81.04 / 92
p0 400 ± 853.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −0.7581
Std Dev 89.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

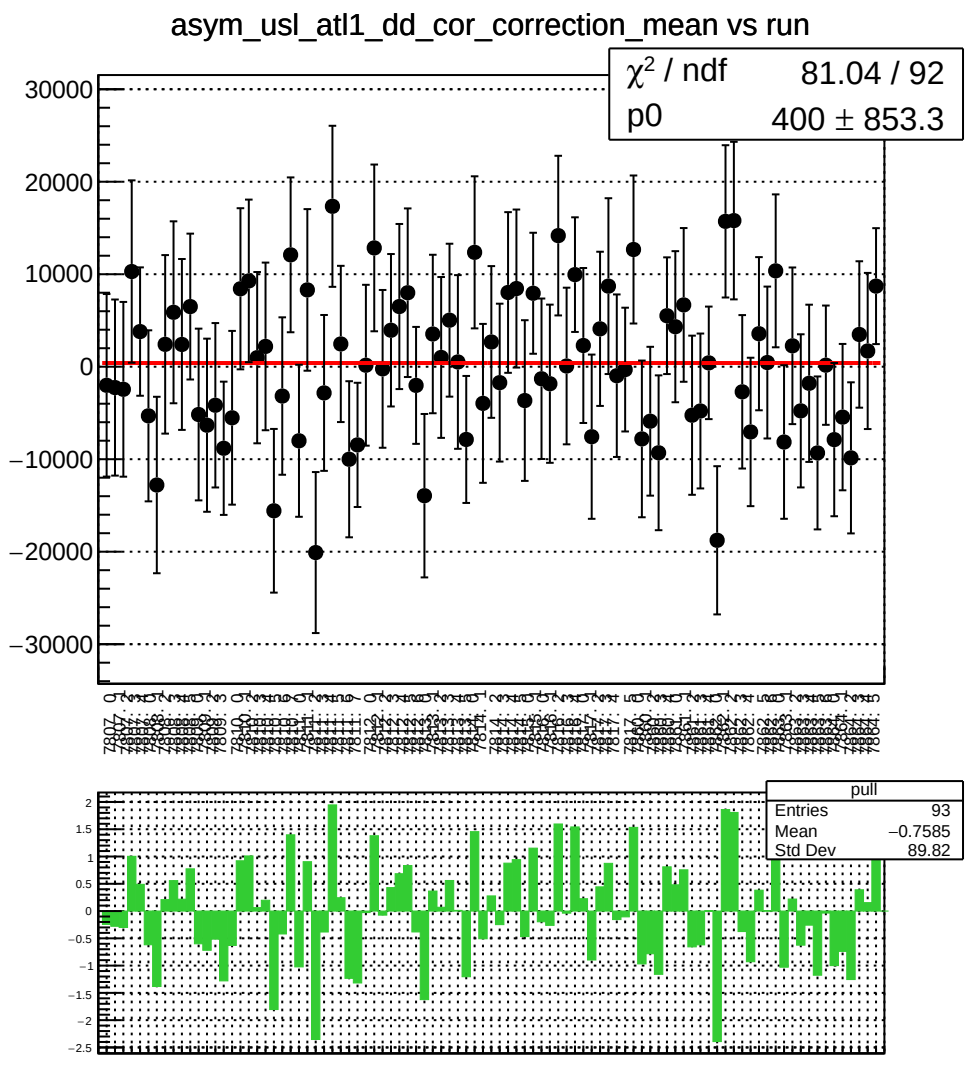

pull1D
Entries 93
Mean −0.007493
Std Dev 0.9335
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

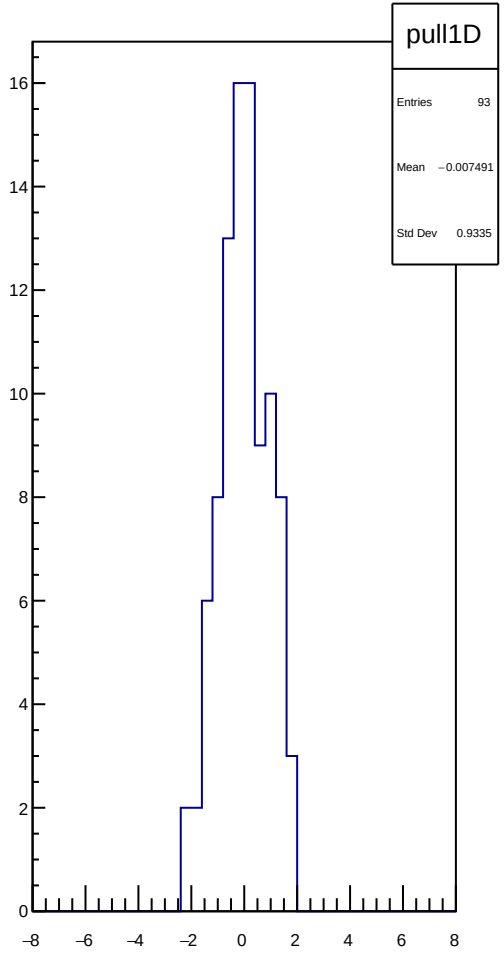

asym_usl_atl1_dd_reg_correction_rms vs run
χ² / ndf 5294 / 92
p0 819.9 ± 0.6034
950
900
850
800
750

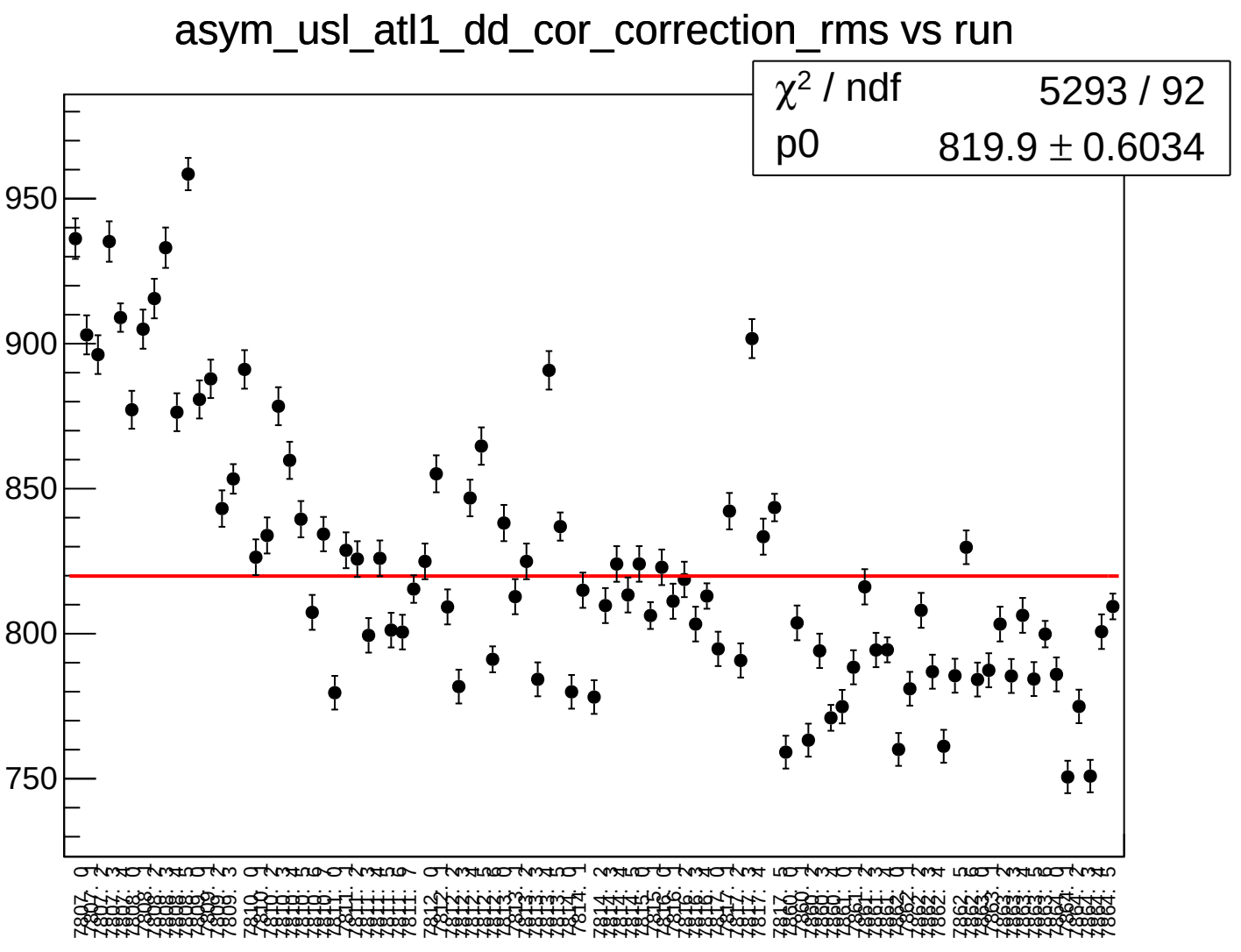

cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 64.16 / 92
p0 −437.1± 1168
pull
Entries 93
Mean 96.67
Std Dev 0

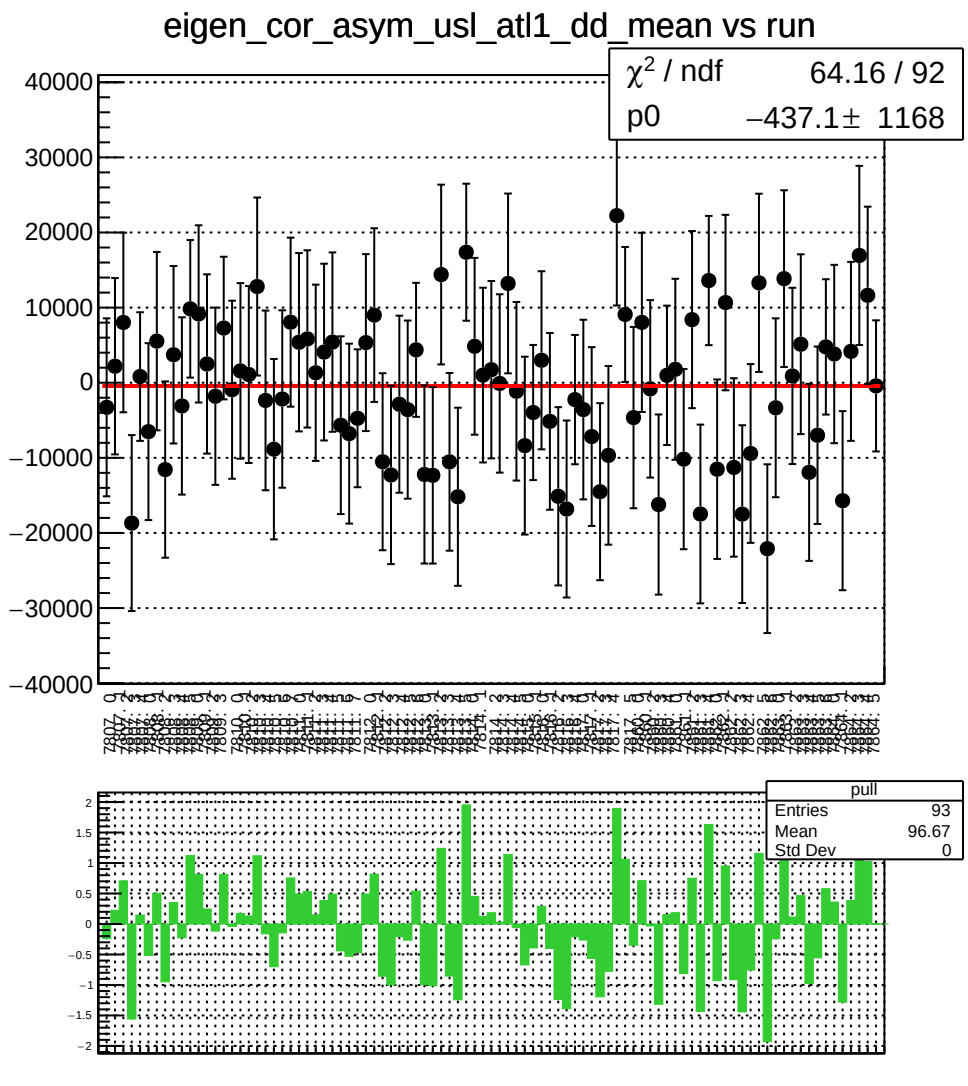

pull1D
Entries 93
Mean −0.02291
Std Dev 0.8303

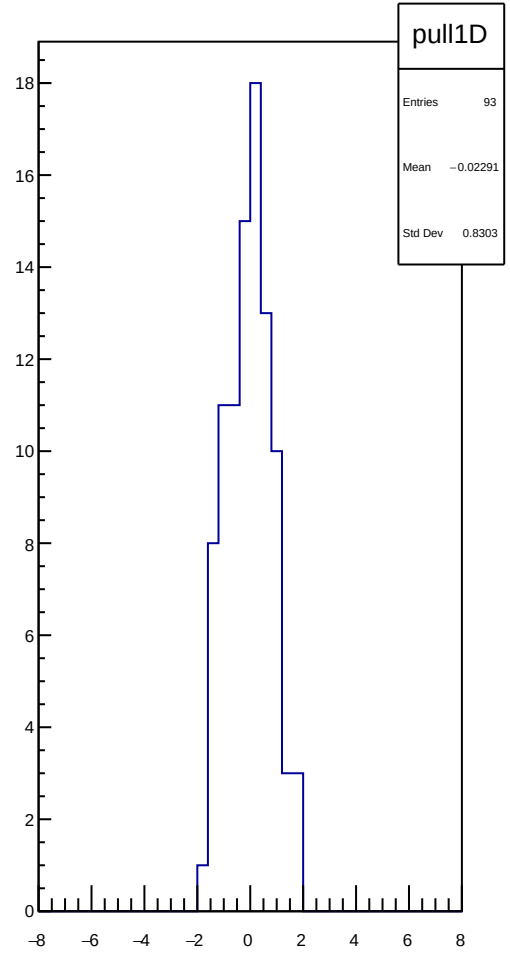

cor_asym_usl_atl1_dd_rms vs run
χ^2 / ndf 112.1 / 92
p0 1123 ± 0.8256
1160
1150
1140
1130
1120
1110
1100
1090

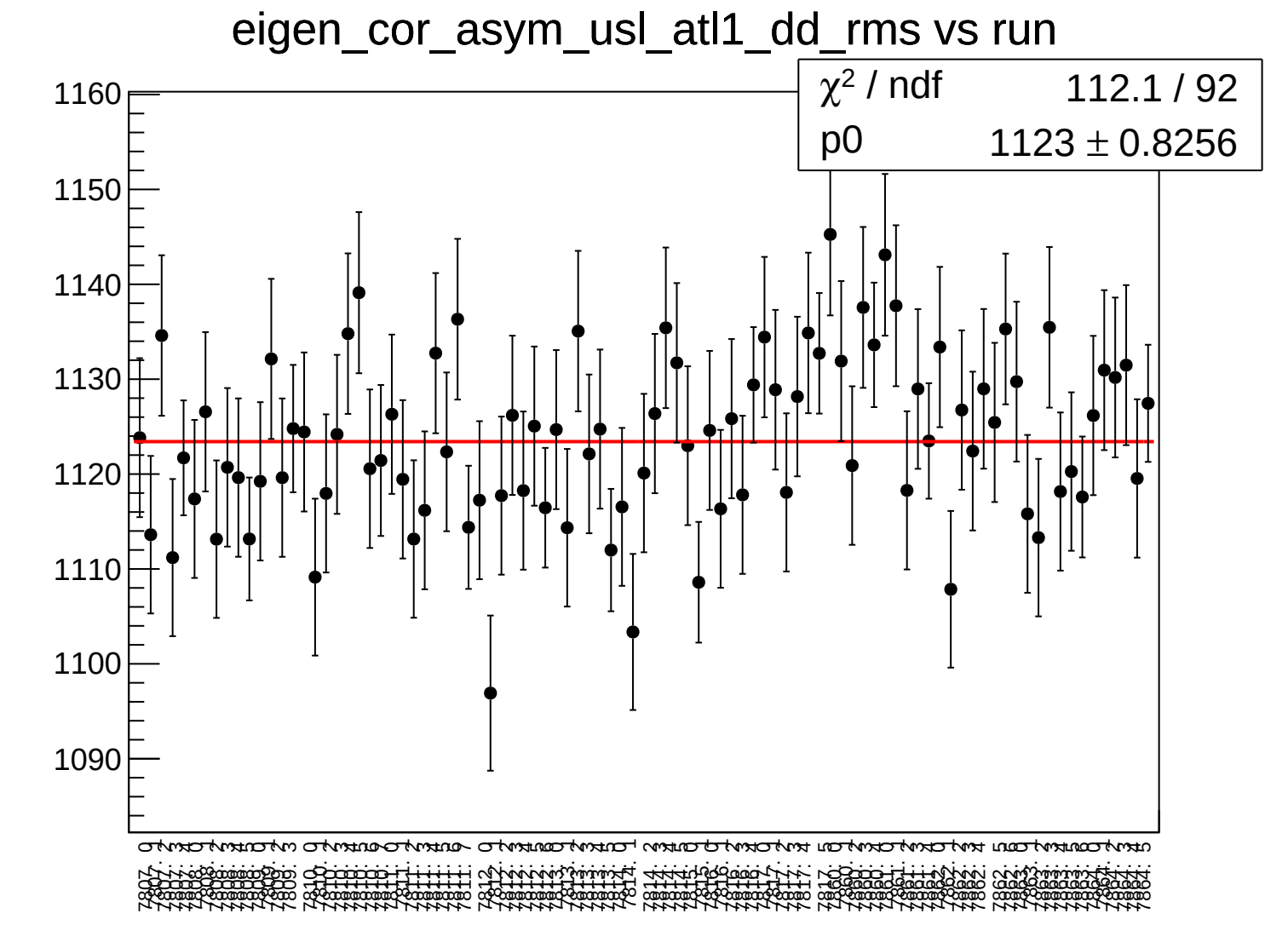

asym_usl_atl1_dd_cor_correction_mean vs run
χ² / ndf 81.04 / 92
p0 400 ± 853.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −0.7585
Std Dev 89.82
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

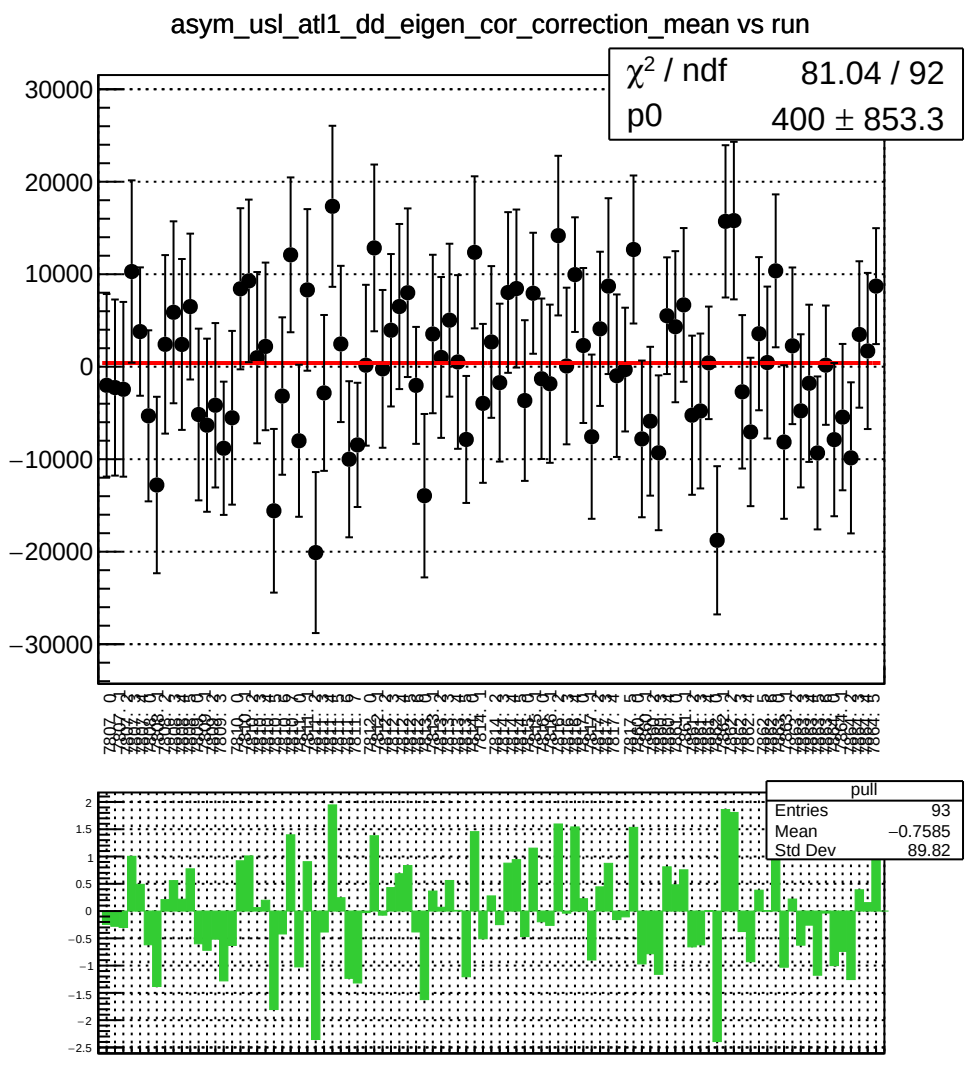

pull1D
Entries 93
Mean −0.007491
Std Dev 0.9335
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

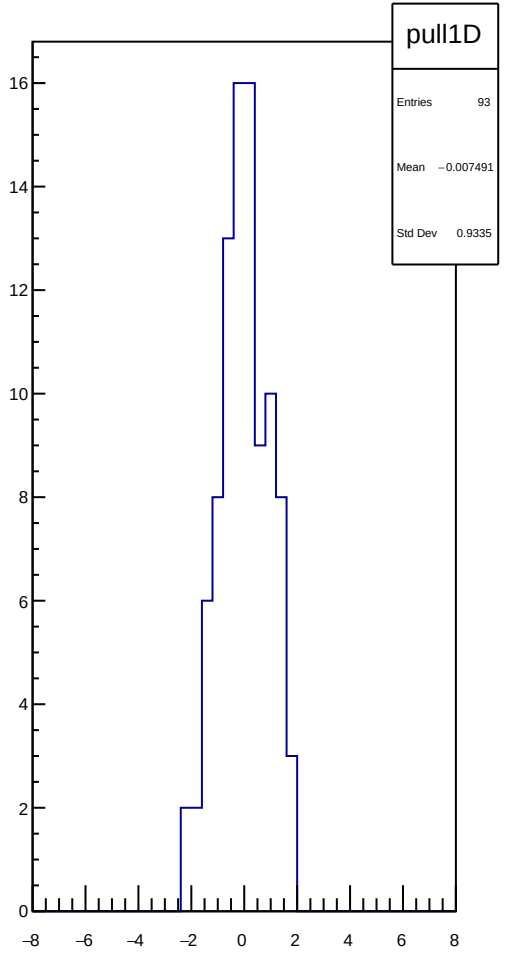

asym_usl_atl1_dd_cor_correction_rms vs run
χ² / ndf 5293 / 92
p0 819.9 ± 0.6034
950
900
850
800
750

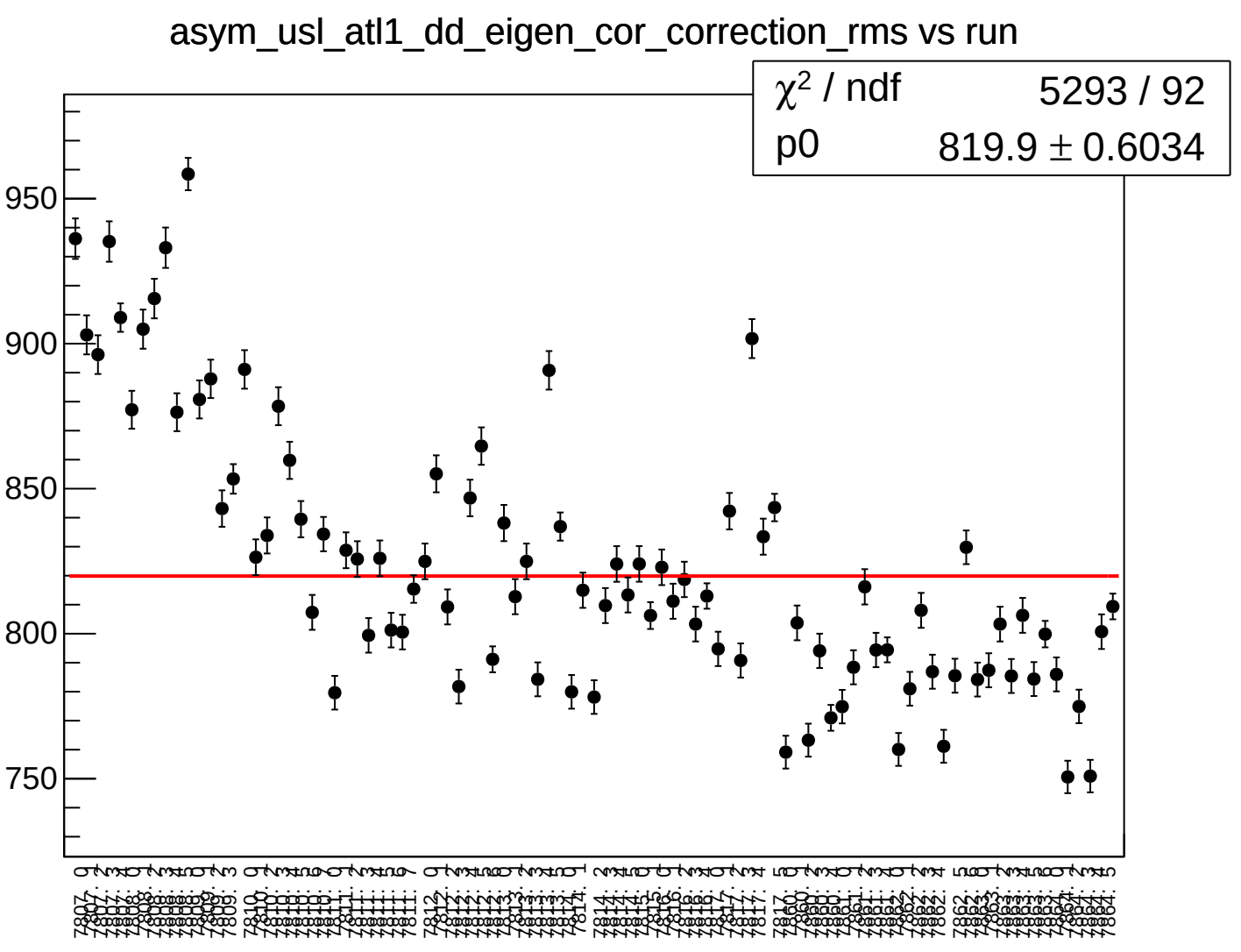

eigen_cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 64.16 / 92
p0 −437.1± 1168
pull
Entries 93
Mean 96.67
Std Dev 0

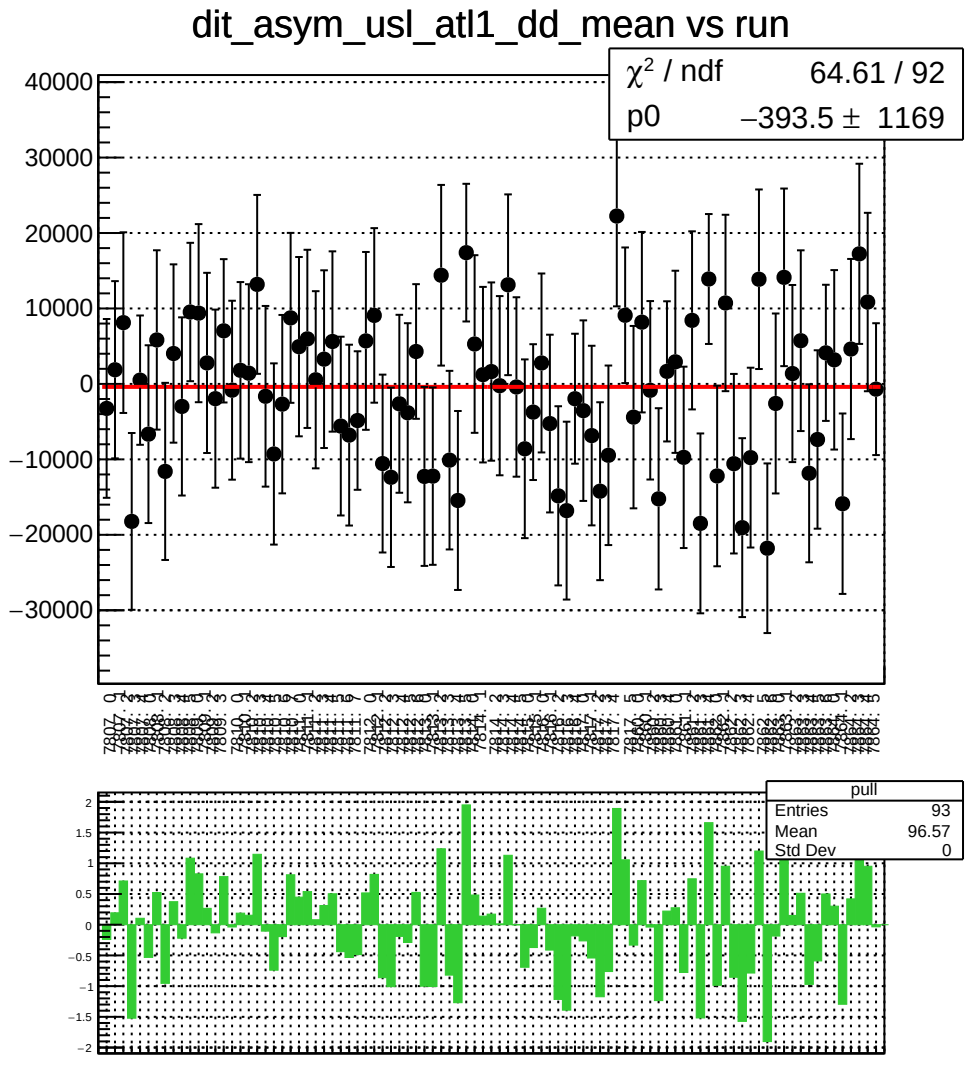

pull1D
Entries 93
Mean −0.02291
Std Dev 0.8303

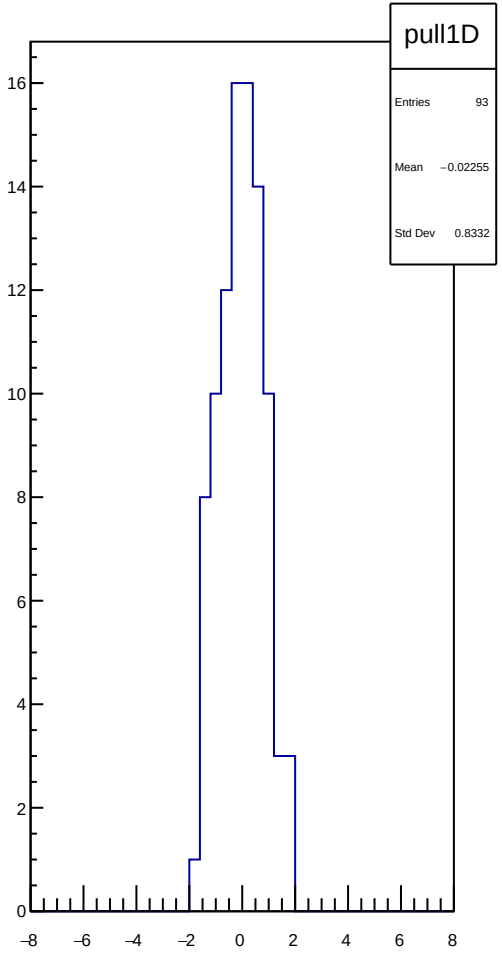

eigen_cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 112.1 / 92
p0 1123 ± 0.8256
1160
1150
1140
1130
1120
1110
1100
1090


asym_usl_atl1_dd_eigen_cor_correction_mean vs run
χ² / ndf 81.04 / 92
p0 400 ± 853.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −0.7585
Std Dev 89.82
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

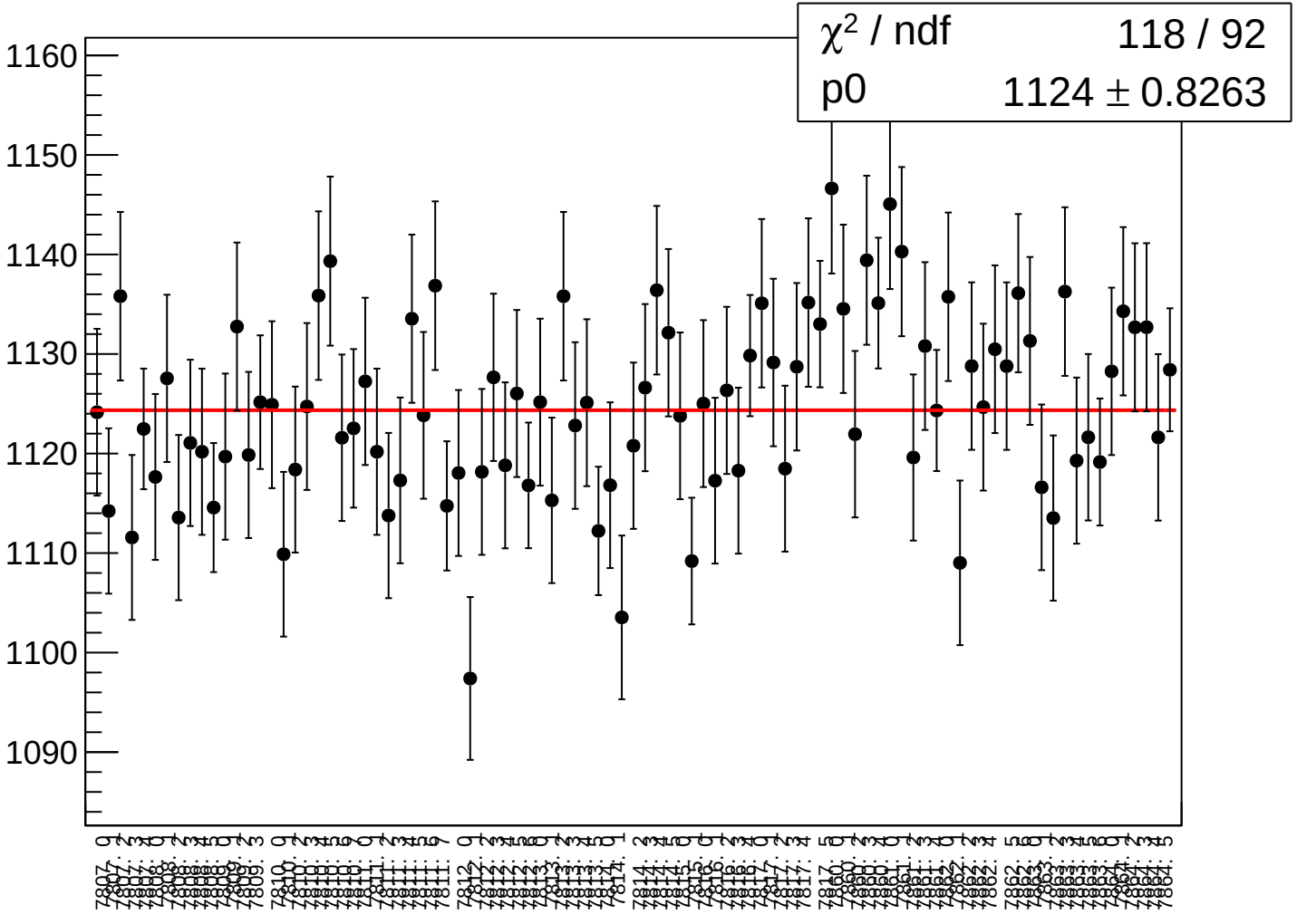

pull1D
Entries 93
Mean −0.007491
Std Dev 0.9335
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

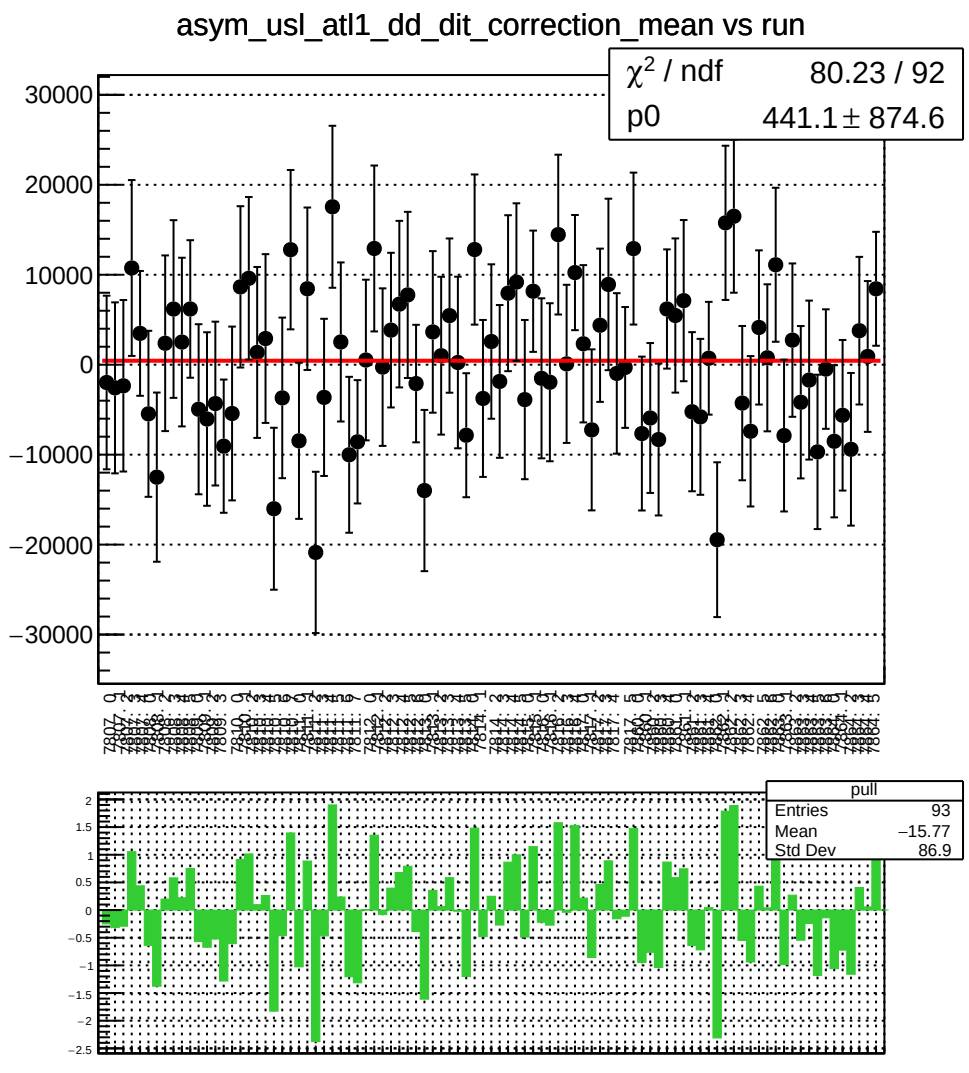

asym_usl_atl1_dd_eigen_cor_correction_rms vs run
χ² / ndf 5293 / 92
p0 819.9 ± 0.6034
950
900
850
800
750

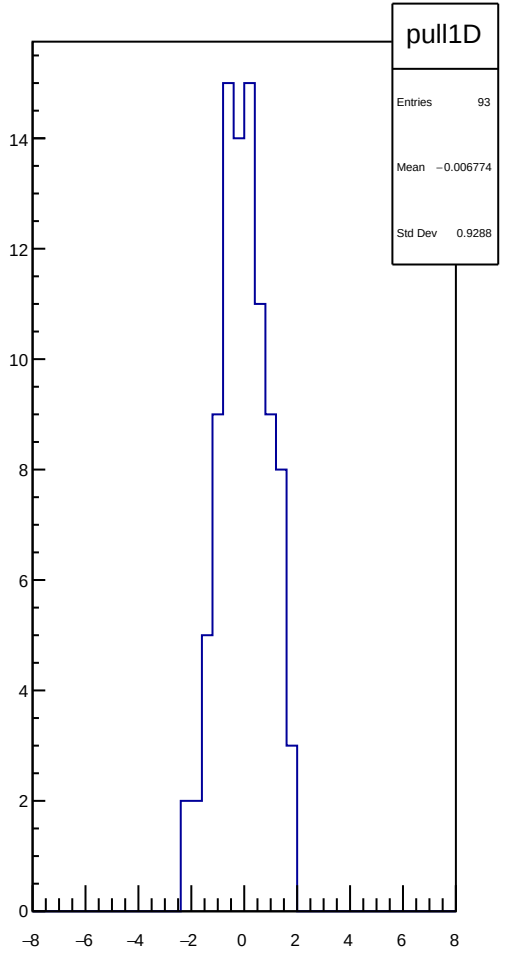

dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 64.61 / 92
p0 −393.5 ± 1169
pull
Entries 93
Mean 96.57
Std Dev 0

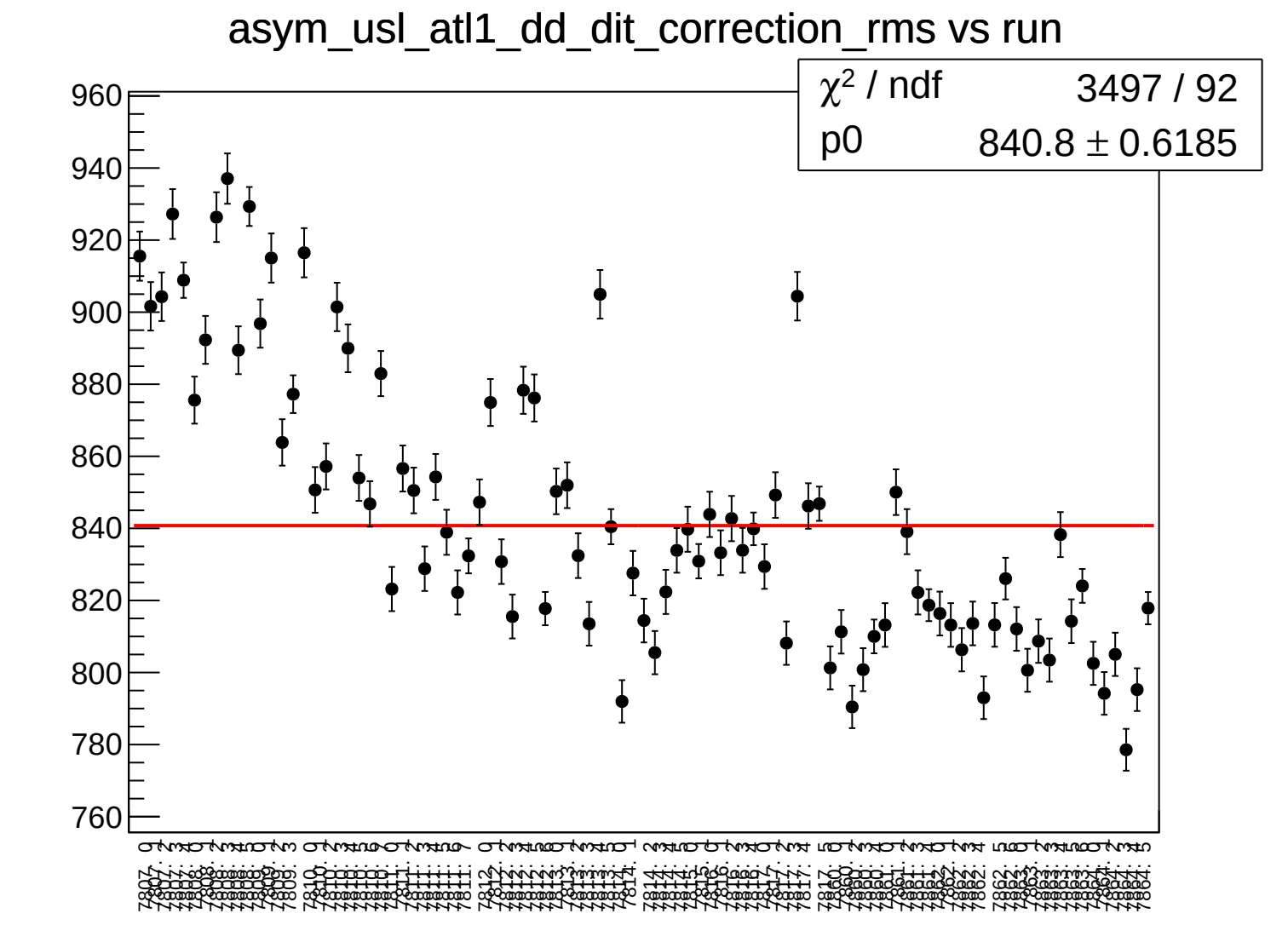

pull1D
Entries 93
Mean −0.02255
Std Dev 0.8332

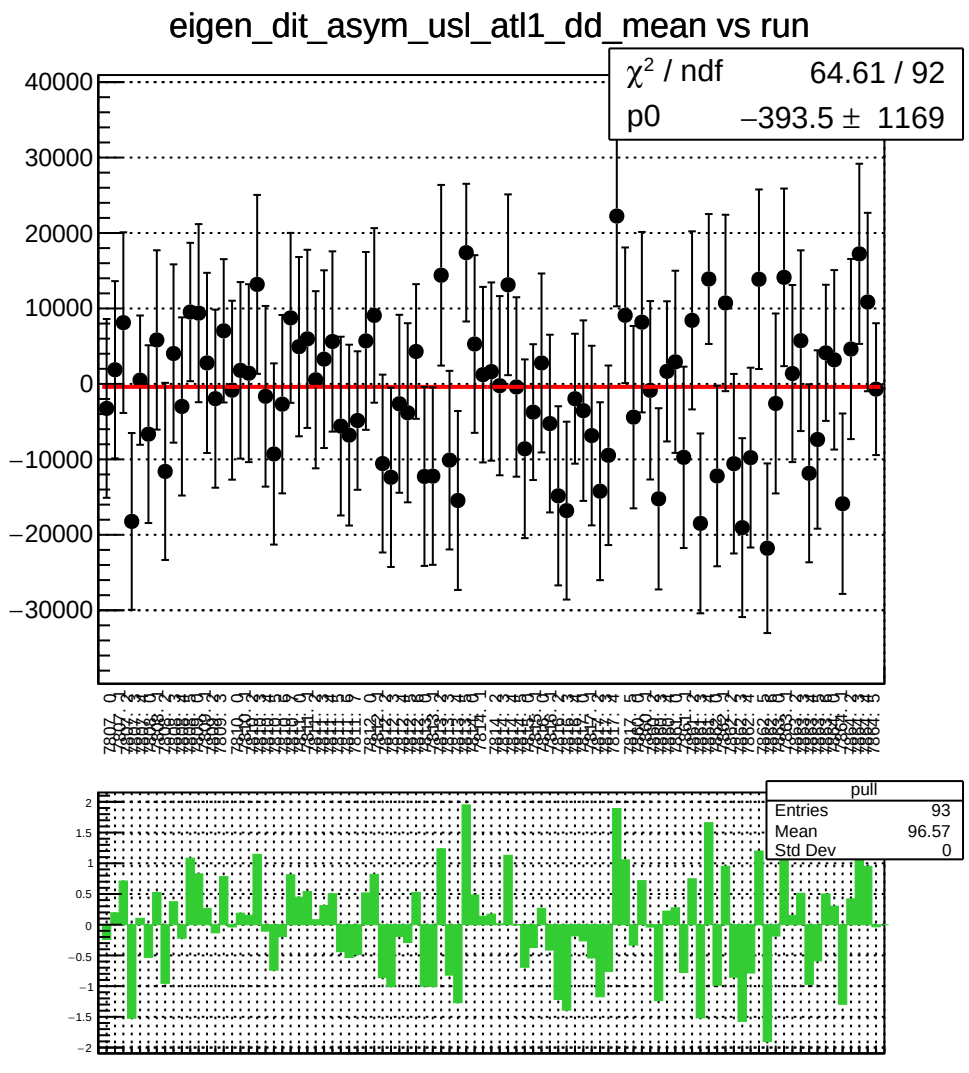
dit_asym_usl_atl1_dd_rms vs run

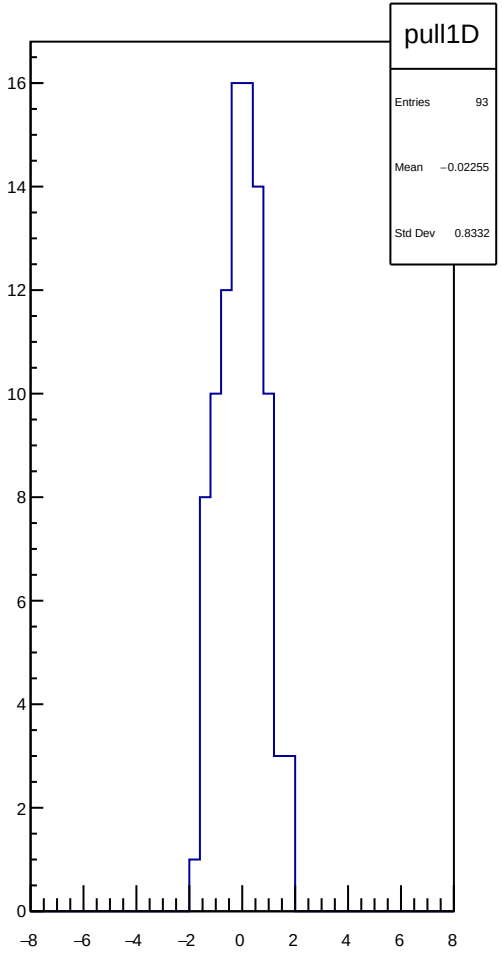


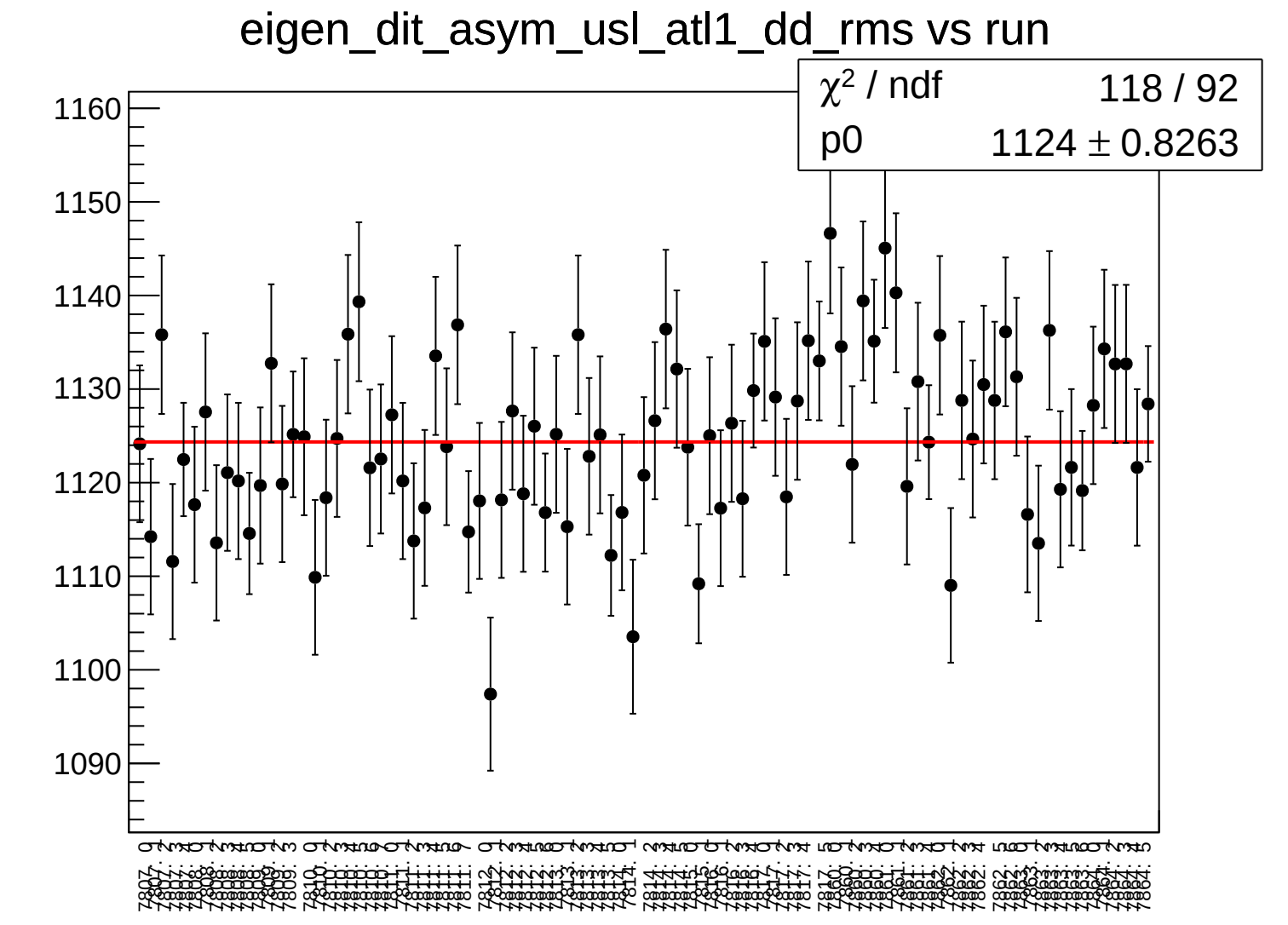

asym_usl_atl1_dd_dit_correction_mean vs run
χ² / ndf 80.23 / 92
p0 441.1 ± 874.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −15.77
Std Dev 86.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

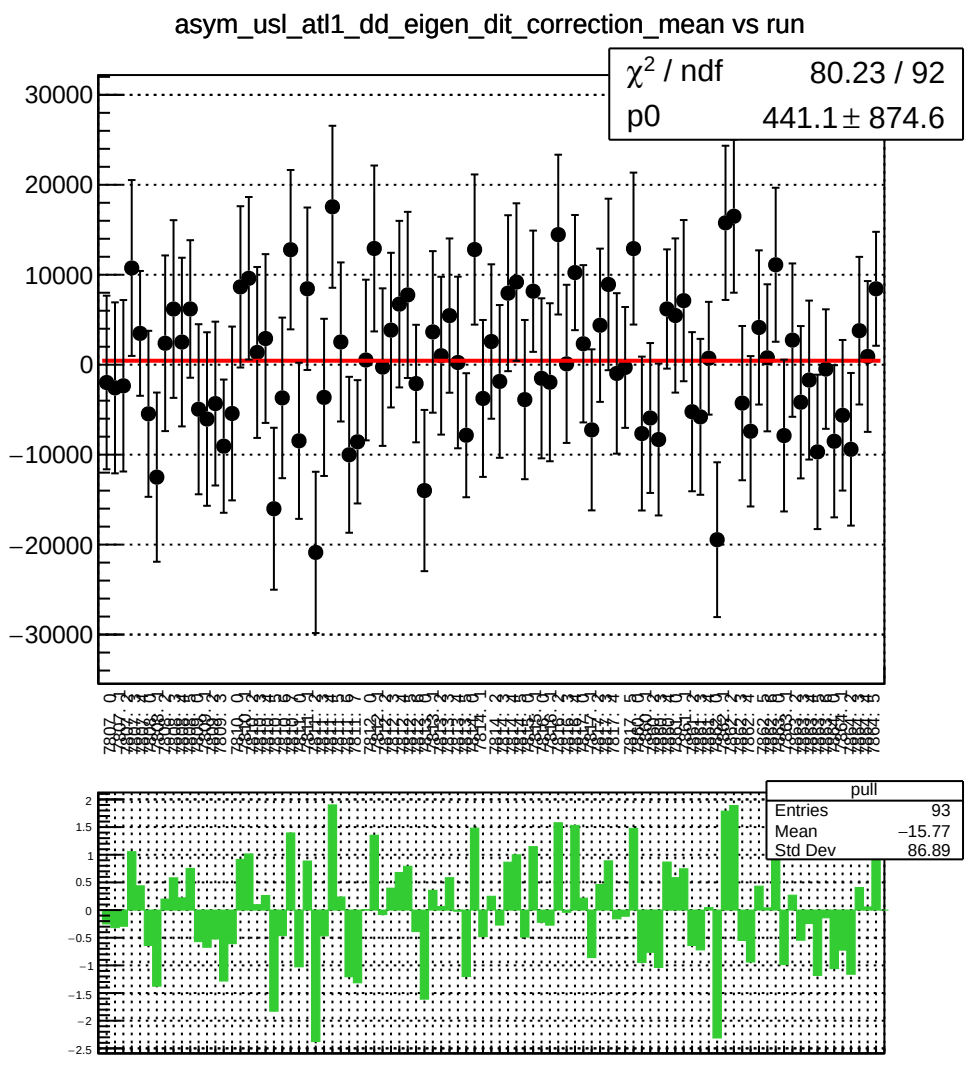

pull1D
Entries 93
Mean −0.006774
Std Dev 0.9288
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

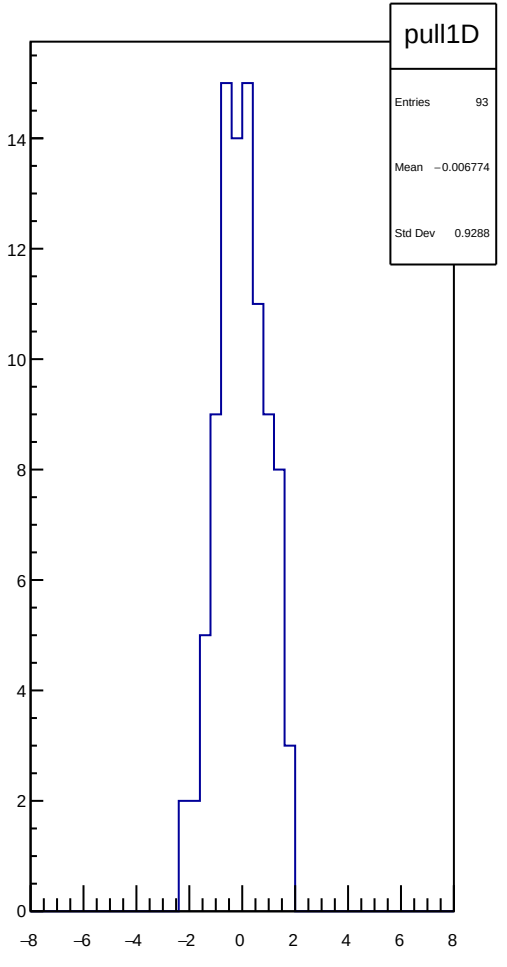

asym_usl_atl1_dd_dit_correction_rms vs run
χ² / ndf 3497 / 92
p0 840.8 ± 0.6185
960
940
920
900
880
860
840
820
800
780
760

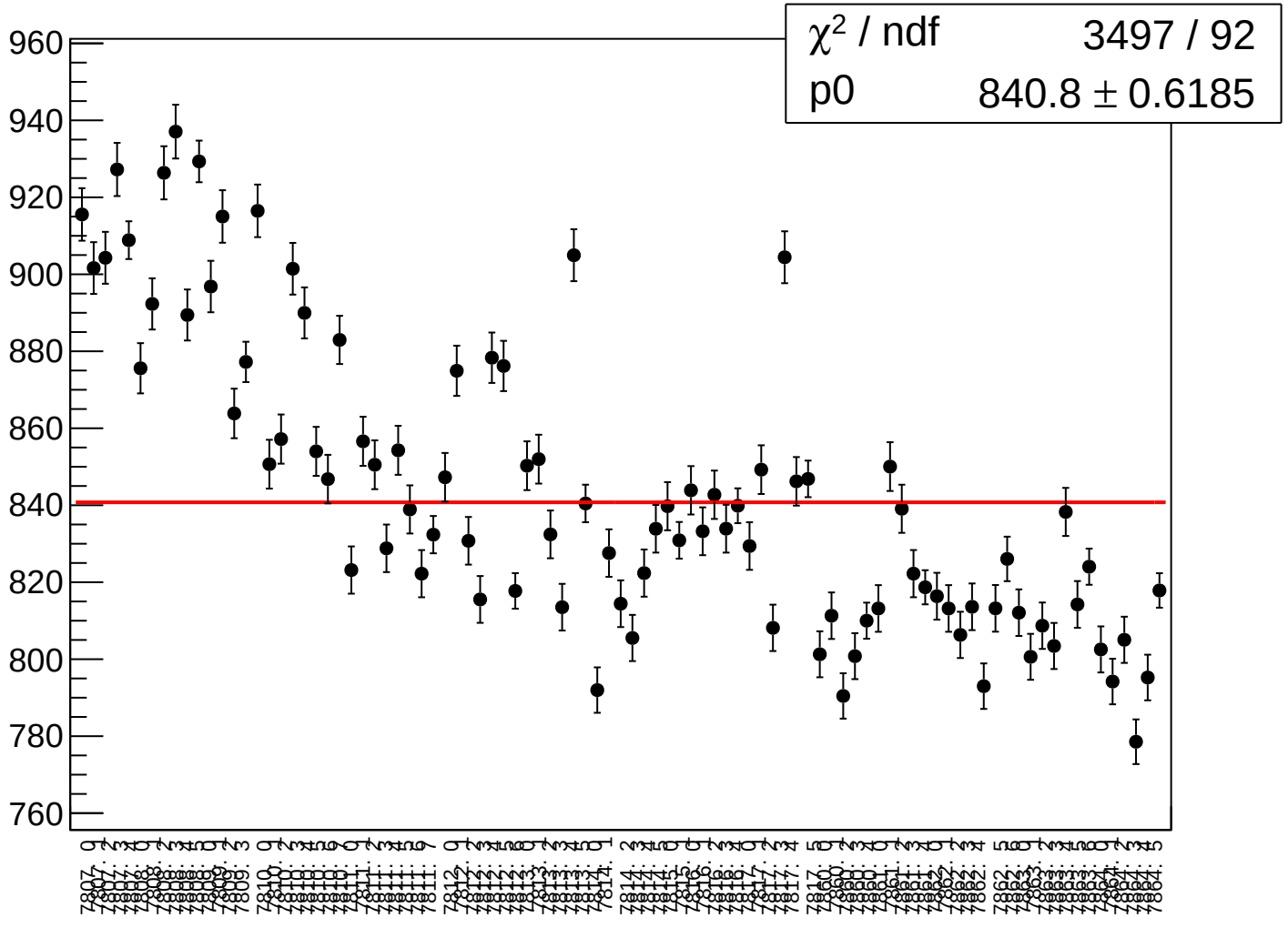

eigen_dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 64.61 / 92
p0 −393.5 ± 1169
pull
Entries 93
Mean 96.57
Std Dev 0

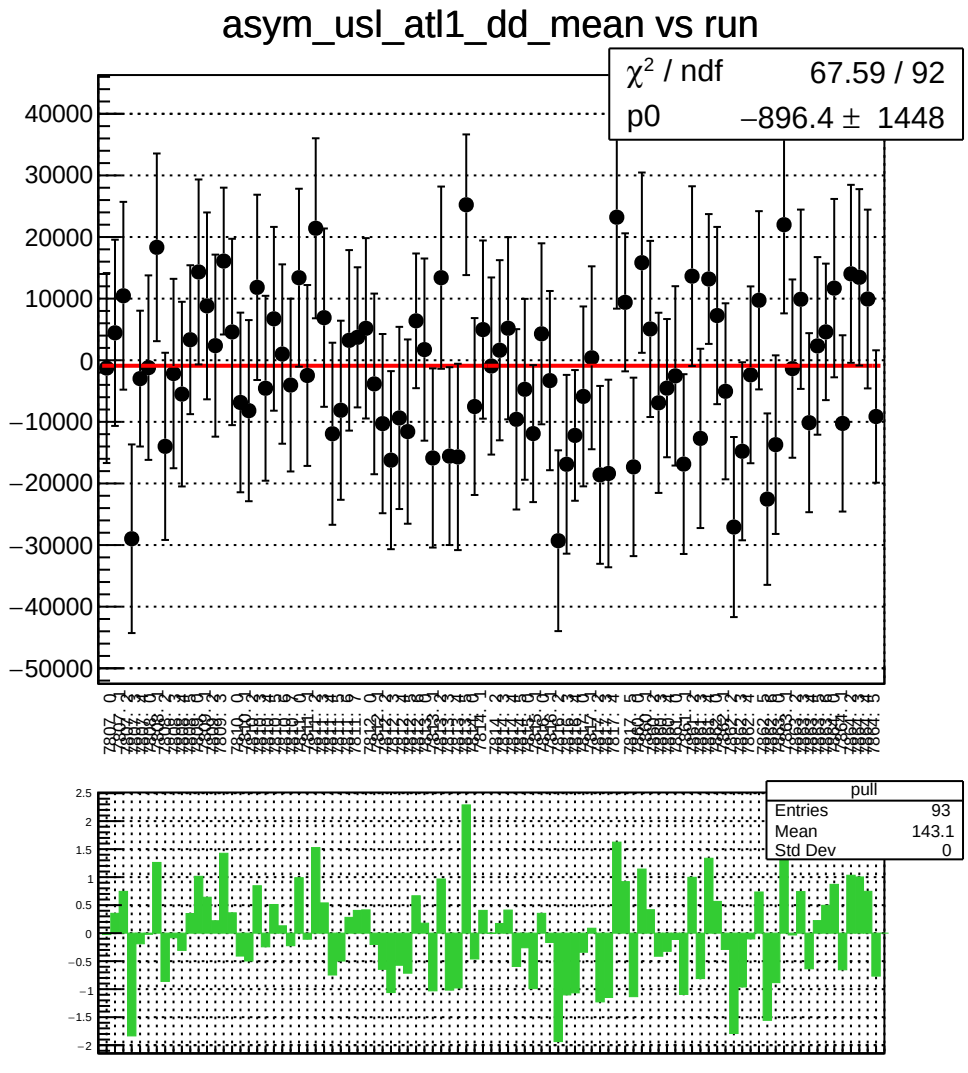

pull1D
Entries 93
Mean −0.02255
Std Dev 0.8332

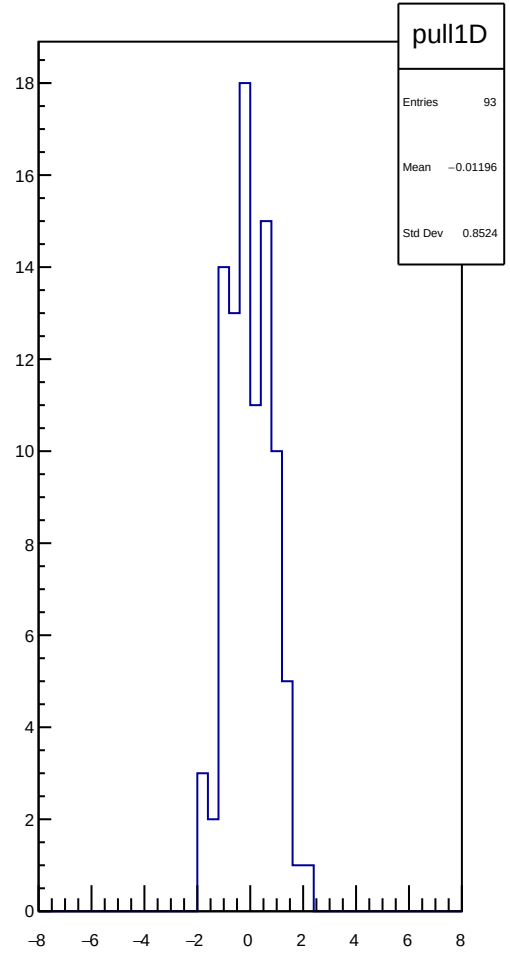

eigen_dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 118 / 92
p0 1124 ± 0.8263
1160
1150
1140
1130
1120
1110
1100
1090

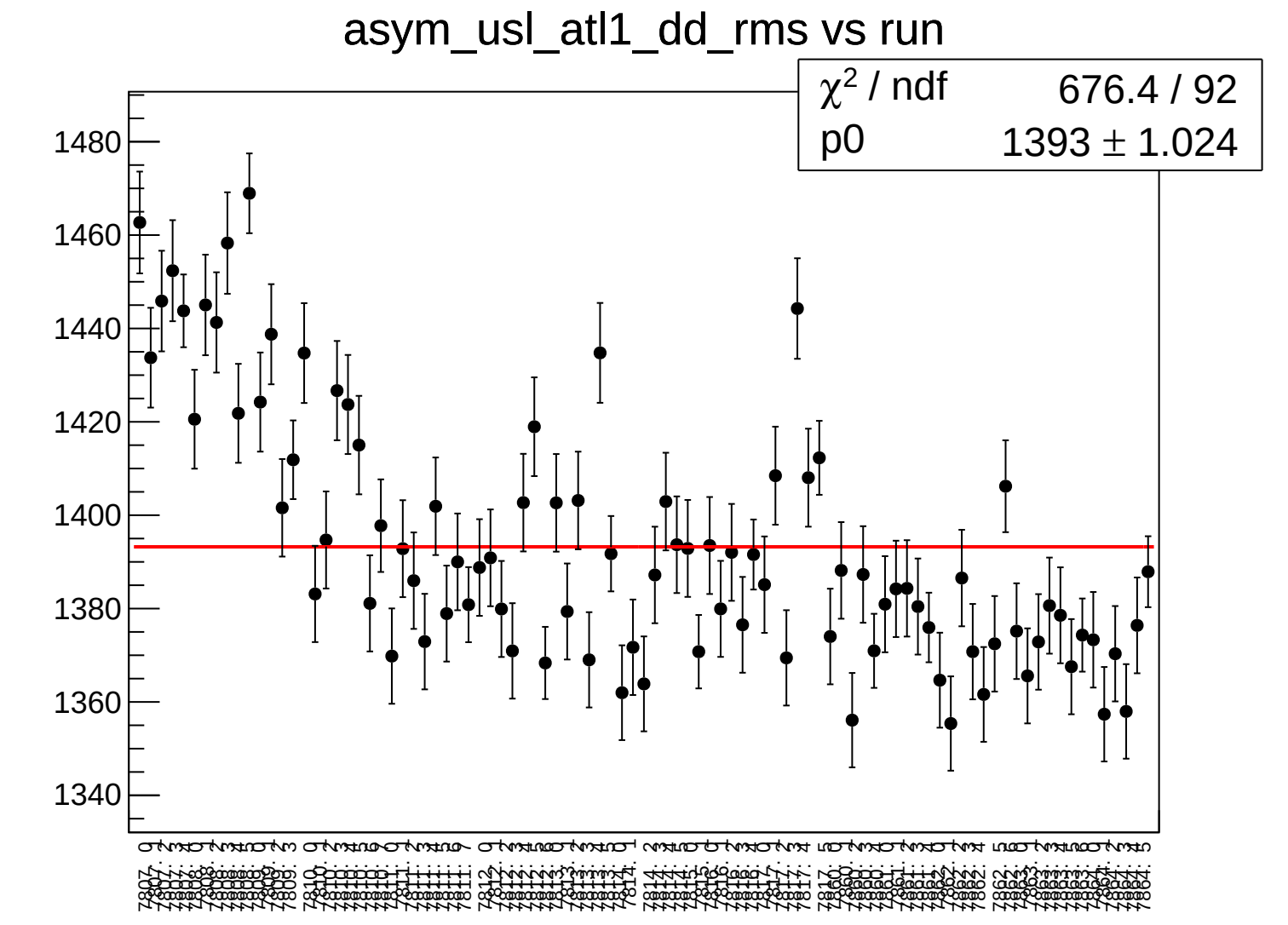

asym_usl_atl1_dd_eigen_dit_correction_mean vs run
χ² / ndf 80.23 / 92
p0 441.1 ± 874.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −15.77
Std Dev 86.89
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

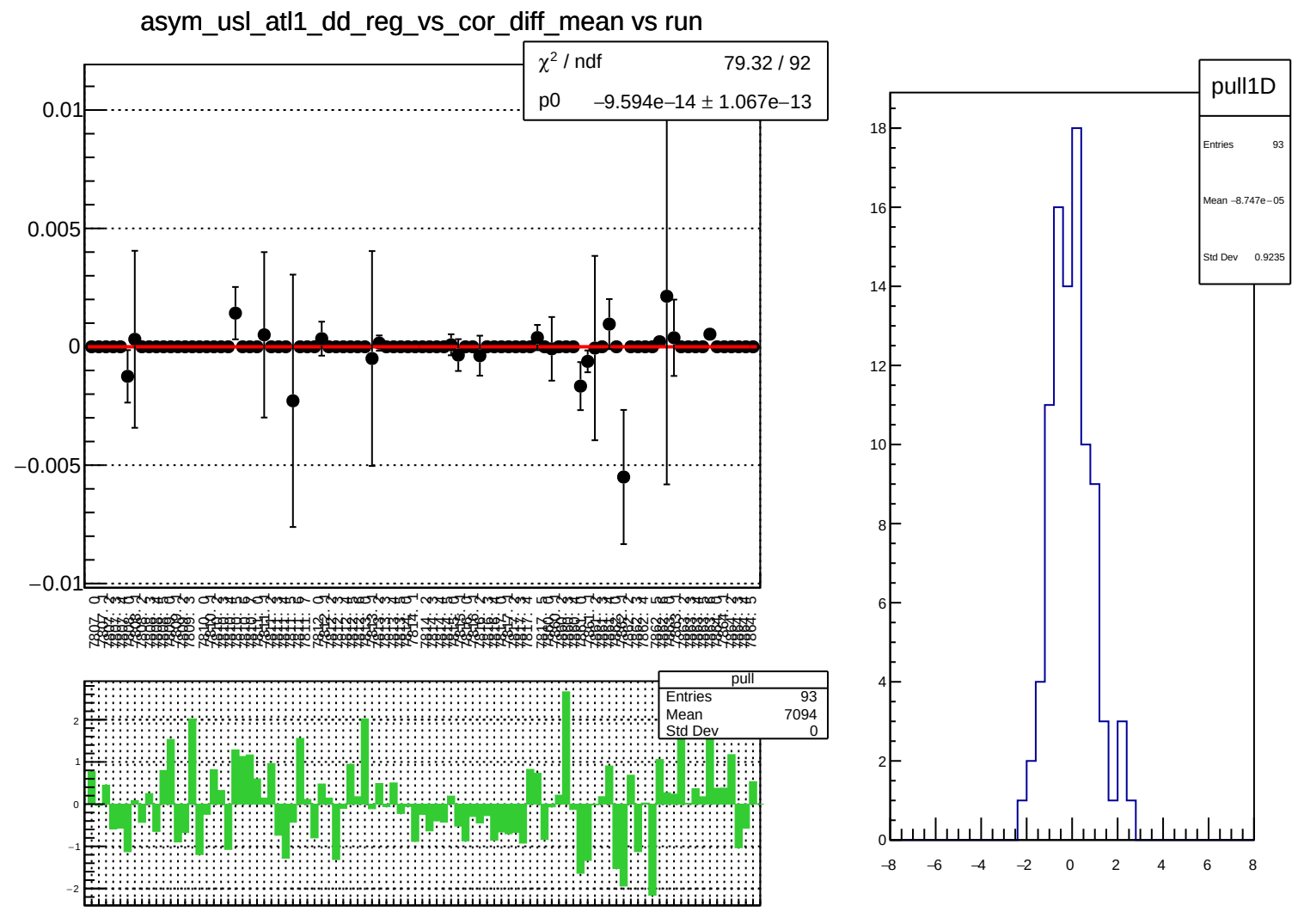

pull1D
Entries 93
Mean −0.006774
Std Dev 0.9288
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

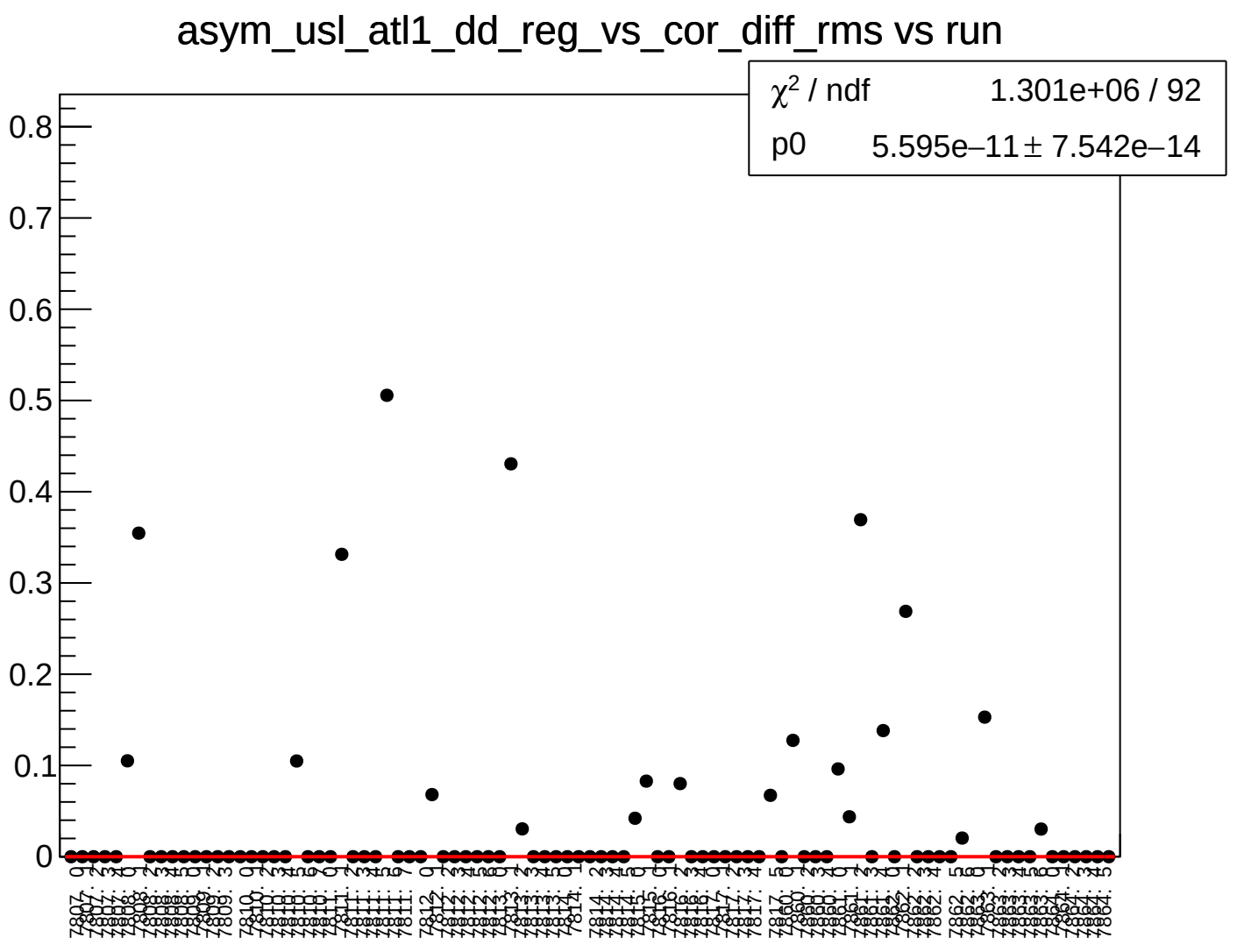

asym_usl_atl1_dd_eigen_dit_correction_rms vs run
χ² / ndf 3497 / 92
p0 840.8 ± 0.6185
960
940
920
900
880
860
840
820
800
780
760

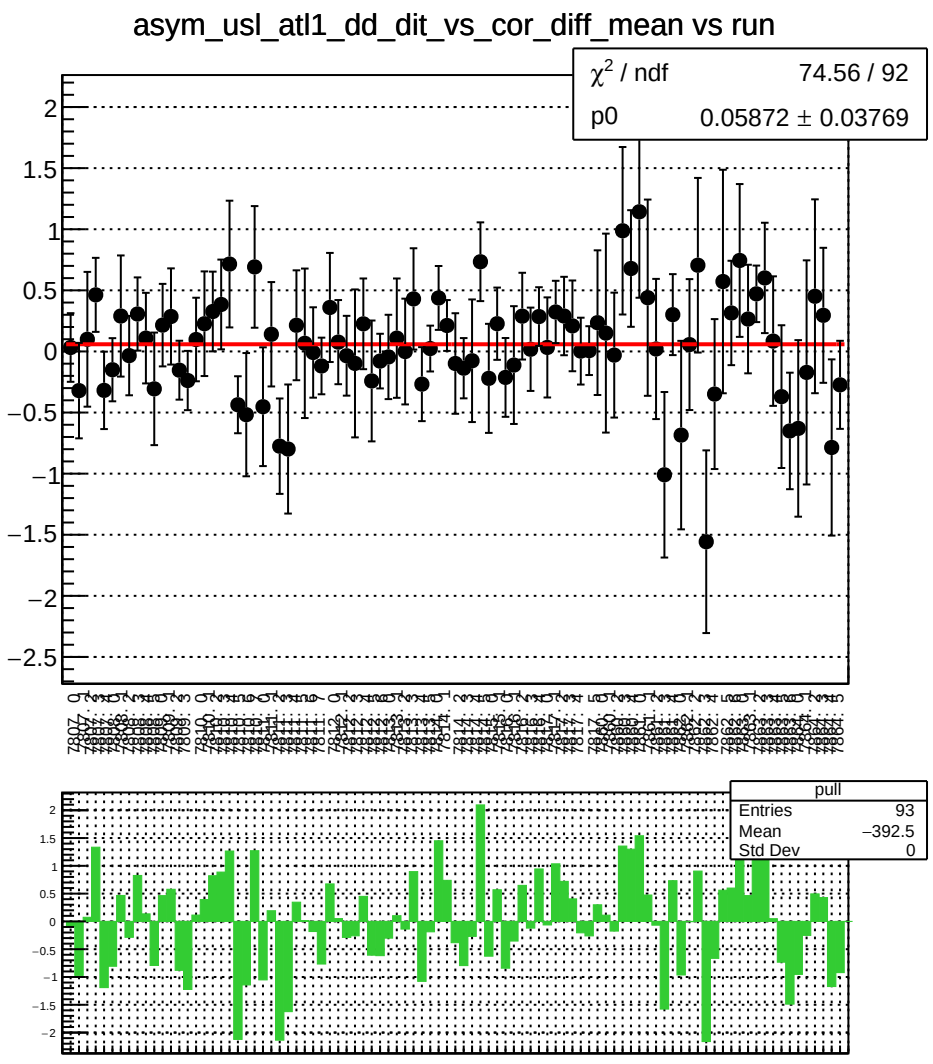

asym_usl_atl1_dd_mean vs run
χ² / ndf 67.59 / 92
p0 −896.4 ± 1448
pull
Entries 93
Mean 143.1
Std Dev 0

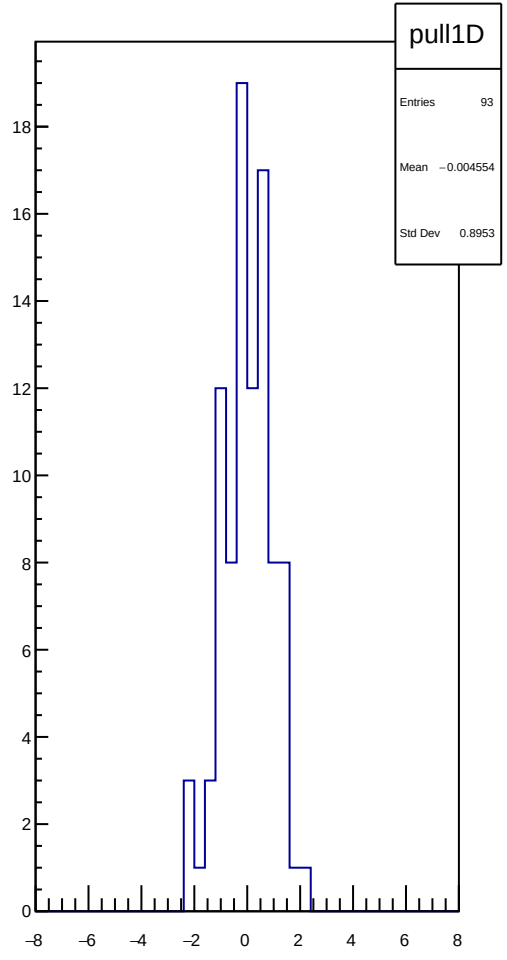

pull1D
Entries 93
Mean −0.01196
Std Dev 0.8524

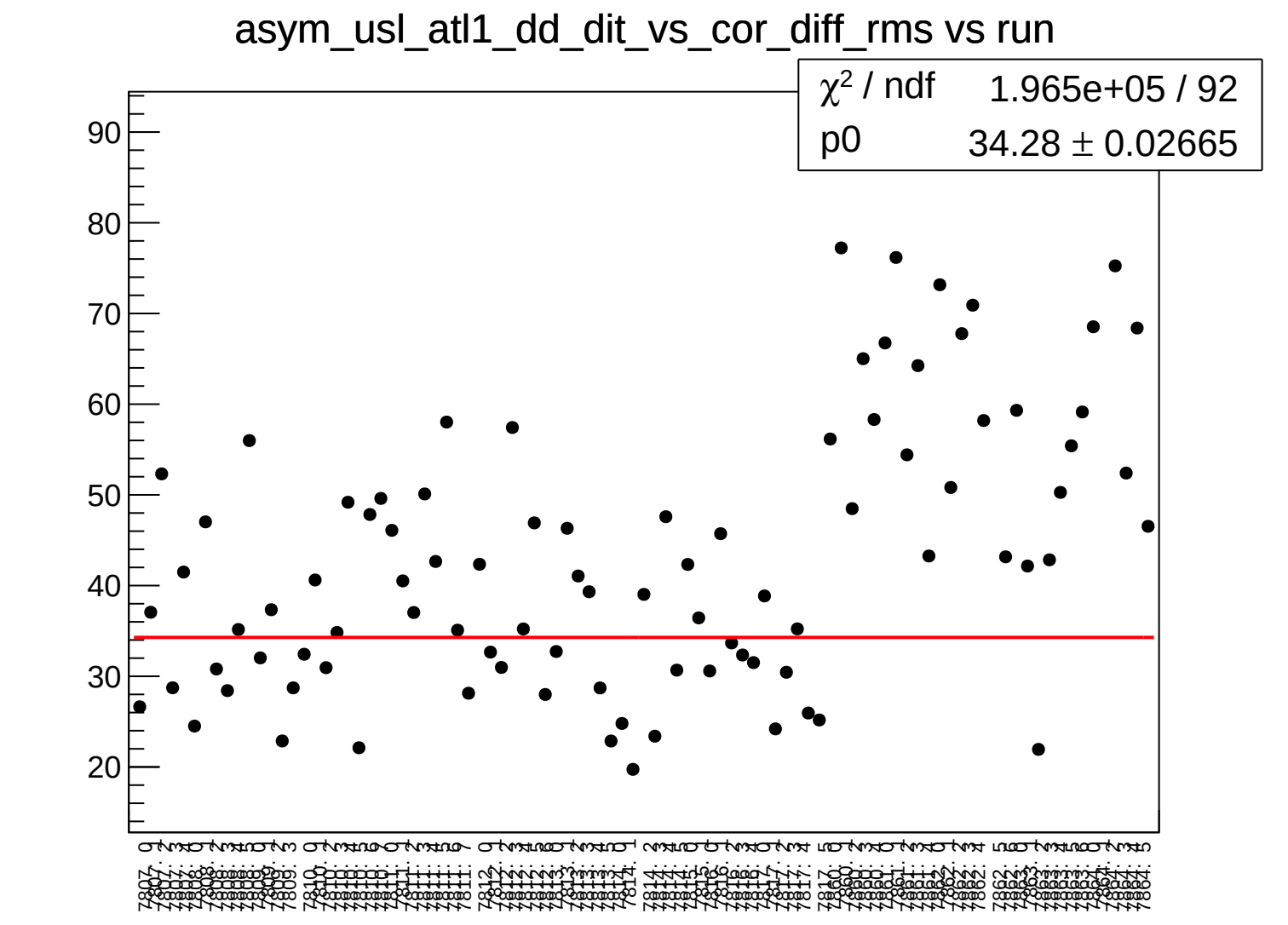

asym_usl_atl1_dd_rms vs run
χ² / ndf 676.4 / 92
p0 1393 ± 1.024
1480
1460
1440
1420
1400
1380
1360
1340

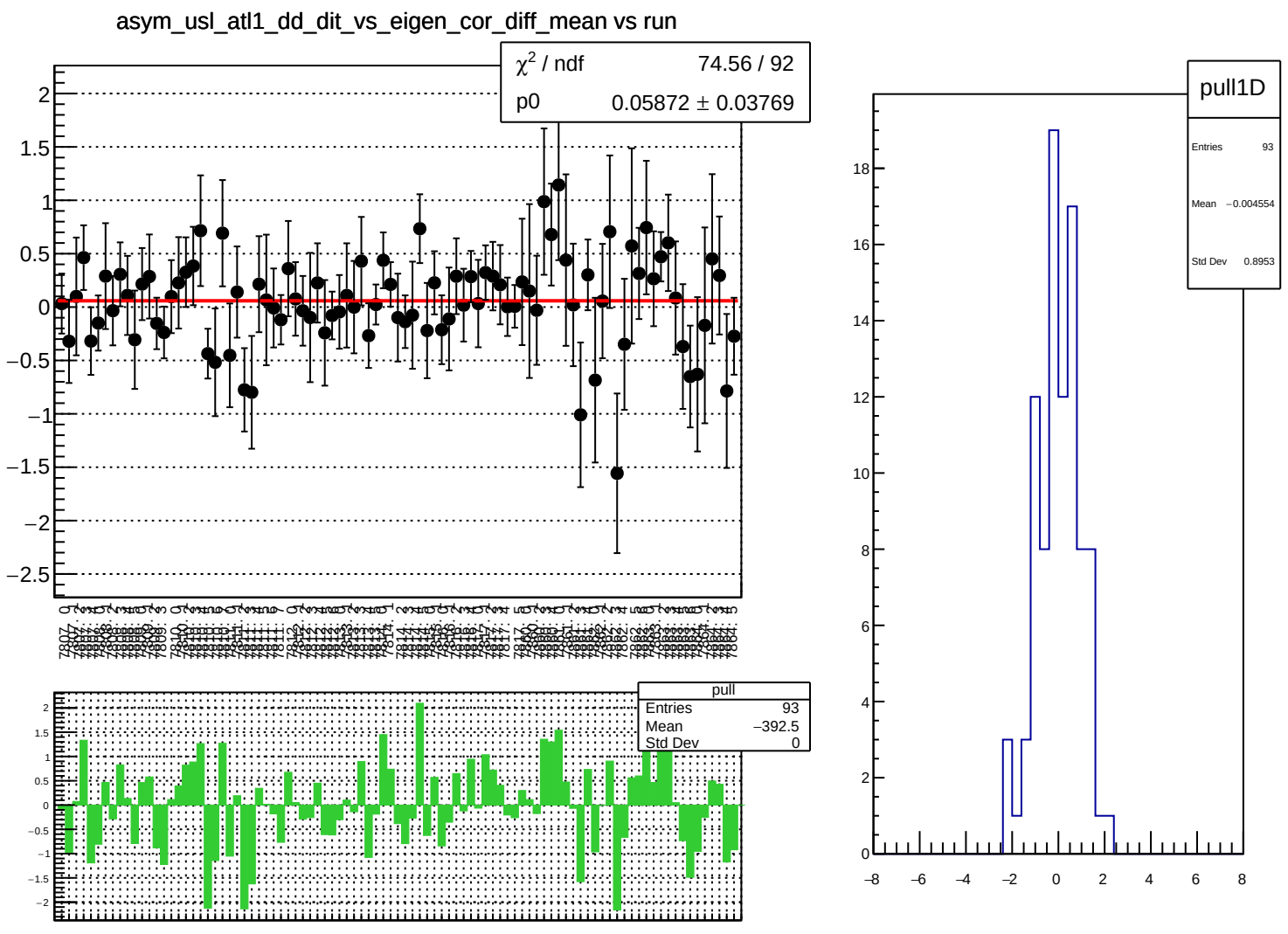

asym_usl_atl1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 79.32 / 92
p0 −9.594e−14 ± 1.067e−13
0.01
0.005
0
−0.005
−0.01
pull
Entries 93
Mean 7094
Std Dev 0
pull1D
Entries 93
Mean −8.747e−05
Std Dev 0.9235

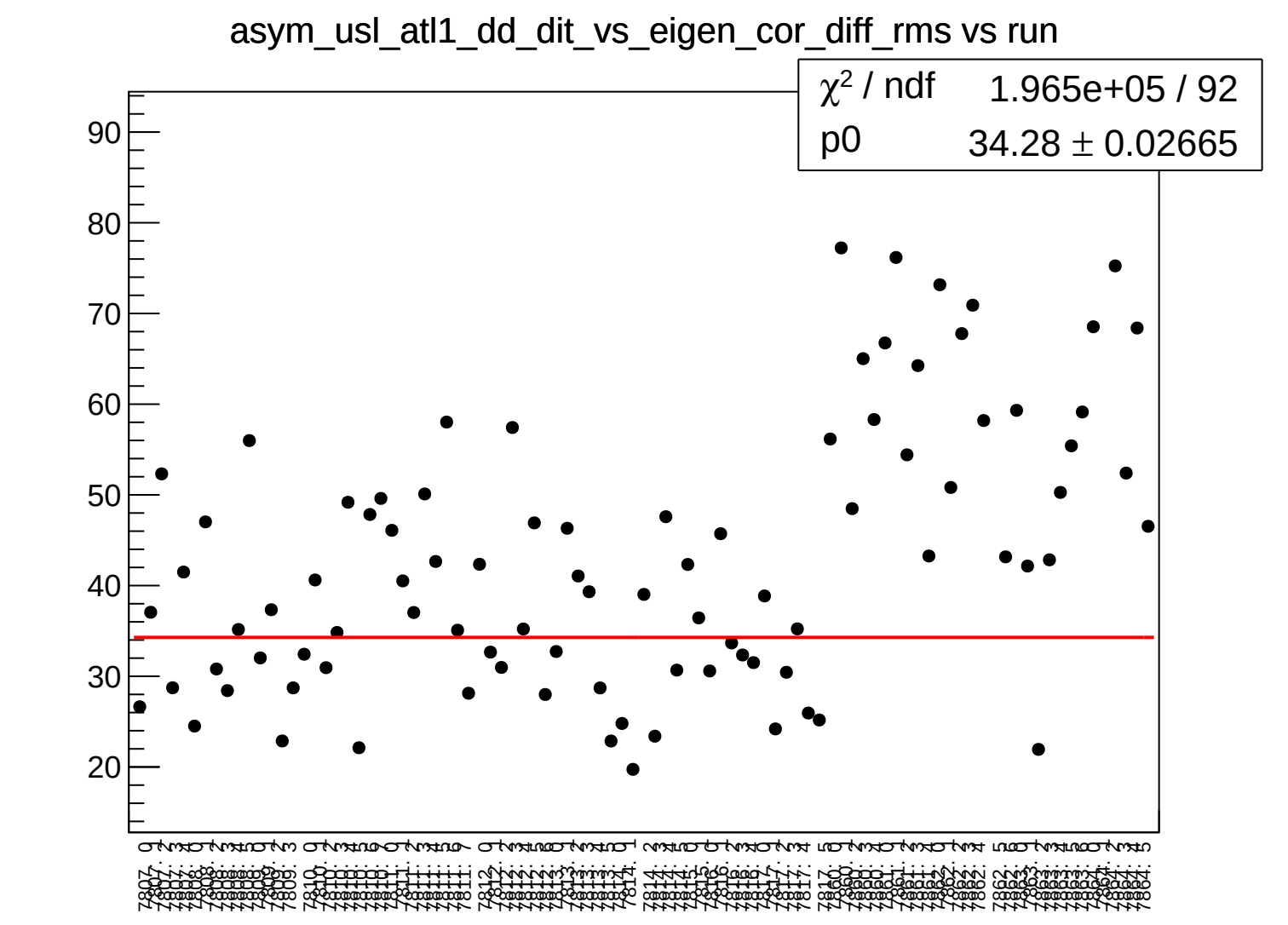

asym_usl_atl1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.301e+06 / 92
p0 5.595e−11 ± 7.542e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

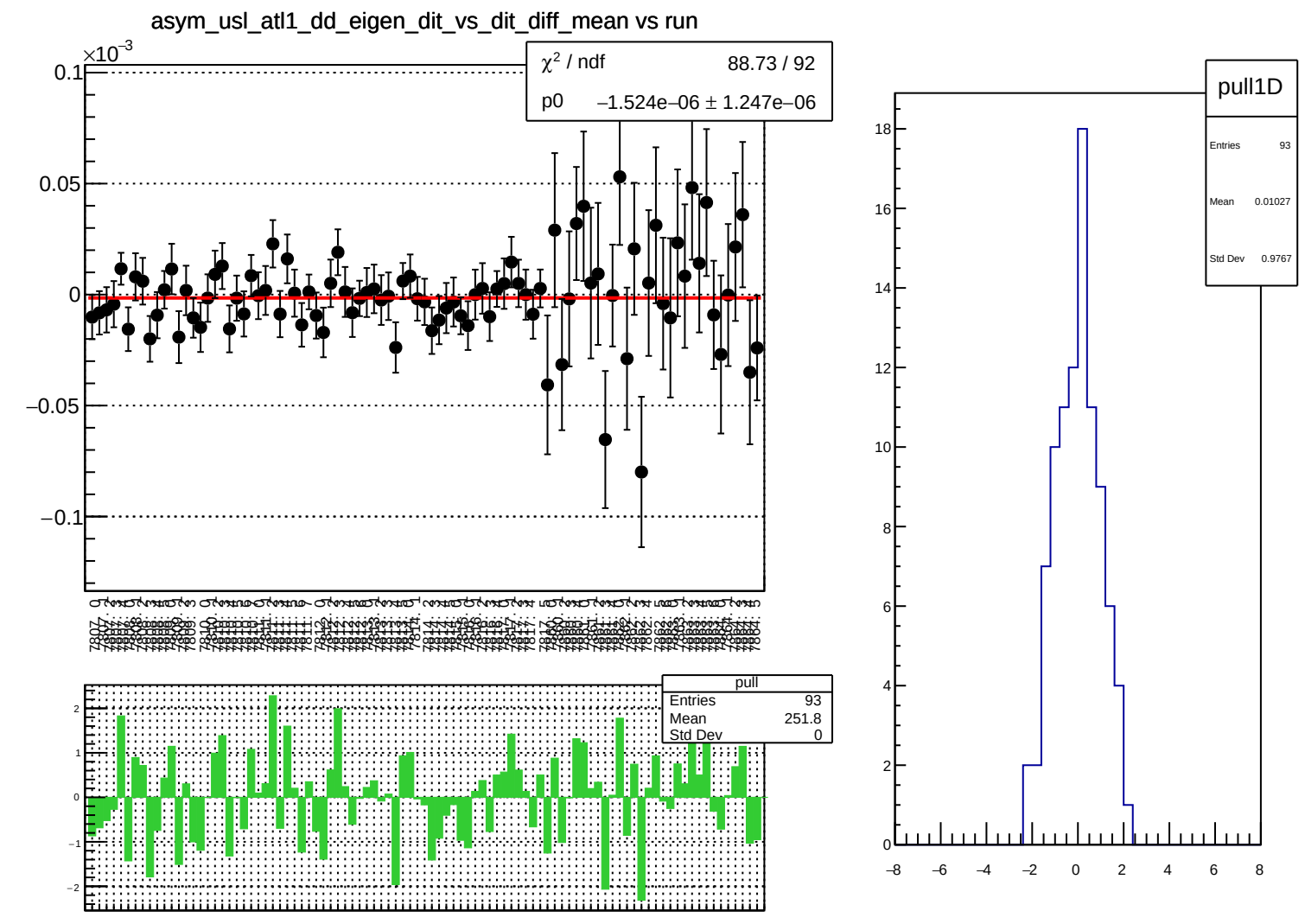

asym_usl_atl1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 74.56 / 92
p0 0.05872 ± 0.03769
pull
Entries 93
Mean −392.5
Std Dev 0

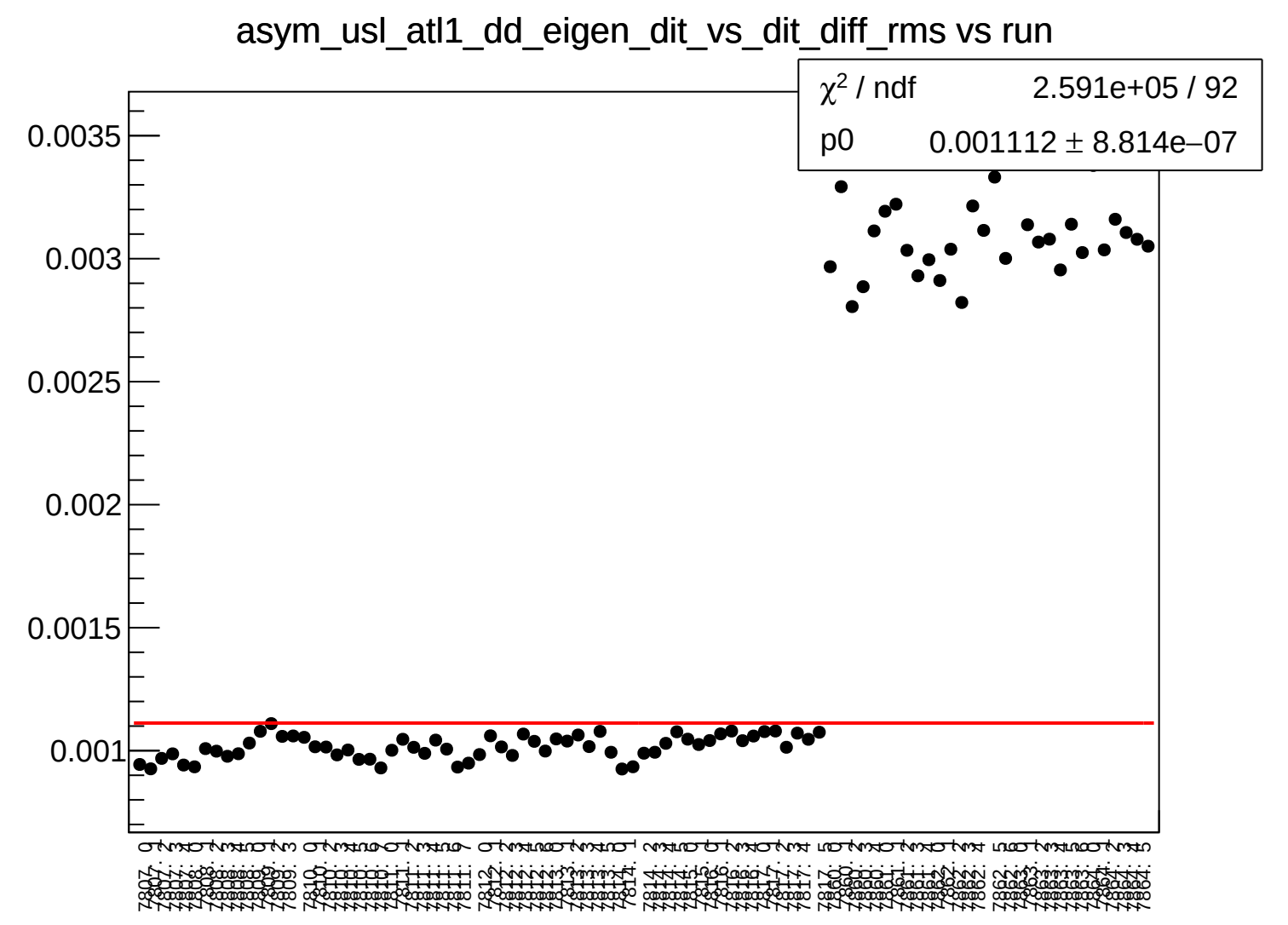

pull1D
Entries 93
Mean −0.004554
Std Dev 0.8953

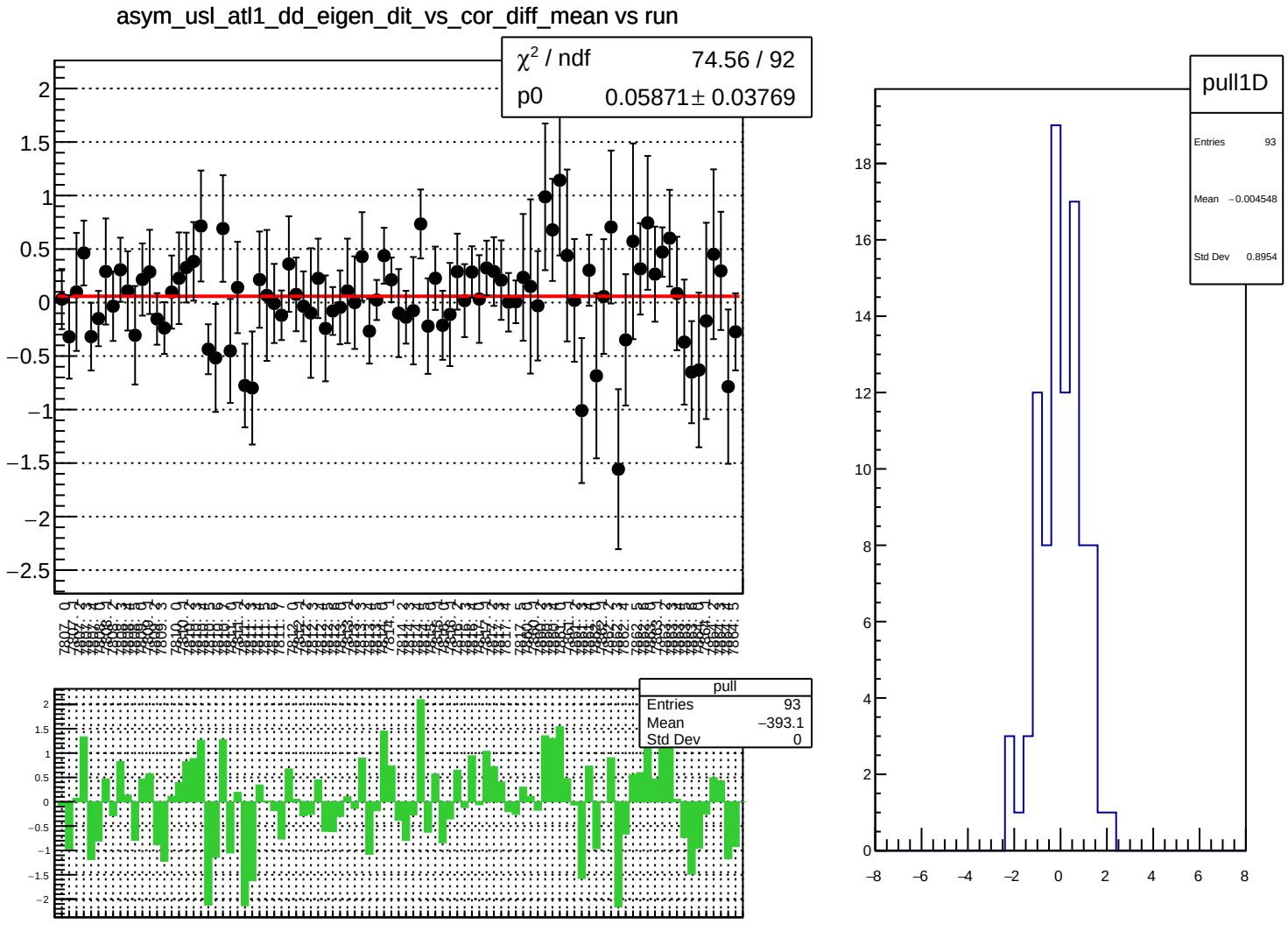

asym_usl_atl1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.965e+05 / 92
p0 34.28 ± 0.02665
90
80
70
60
50
40
30
20

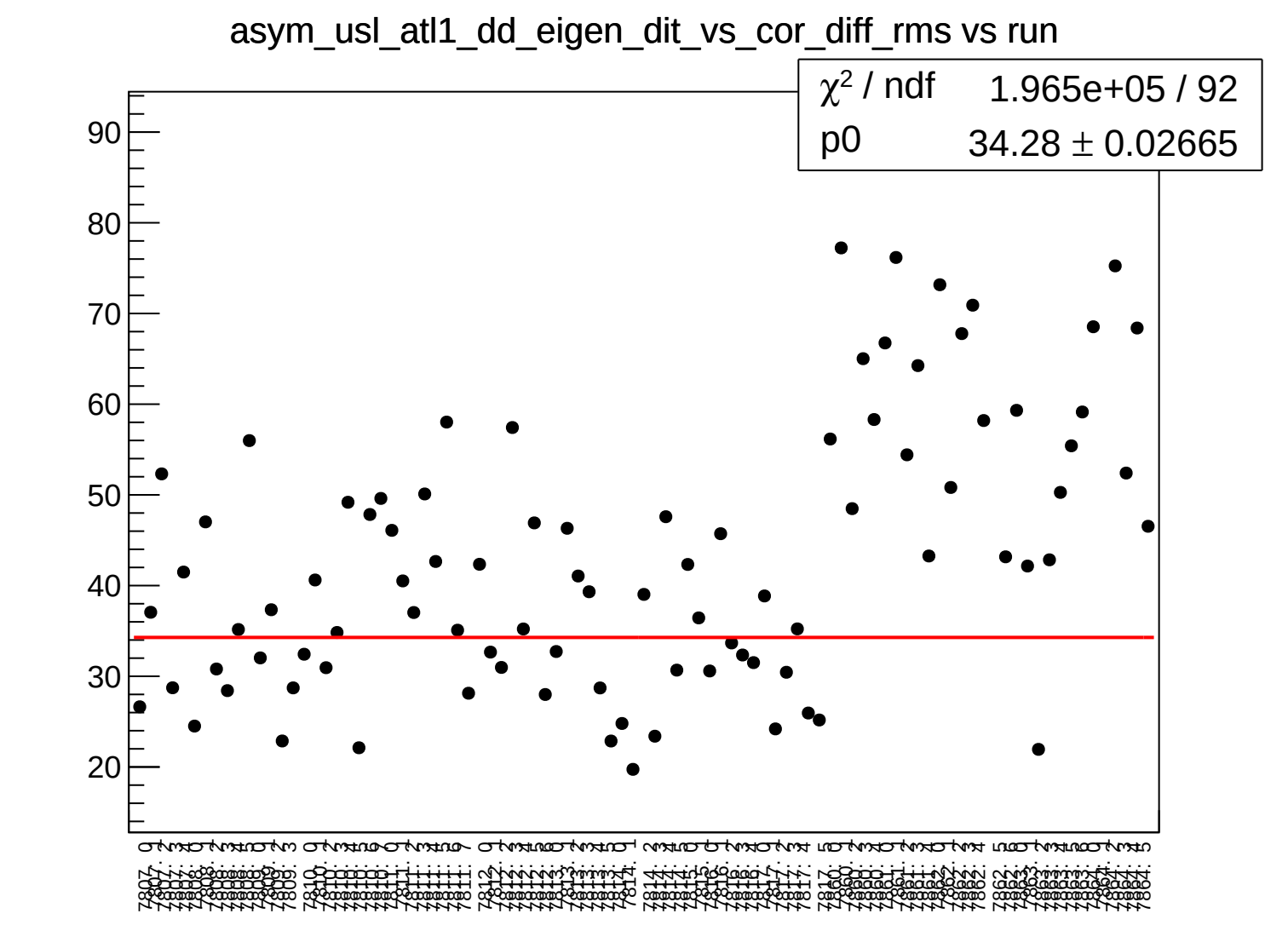

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.56 / 92
p0 0.05872 ± 0.03769
pull
Entries 93
Mean −392.5
Std Dev 0
pull1D
Entries 93
Mean −0.004554
Std Dev 0.8953

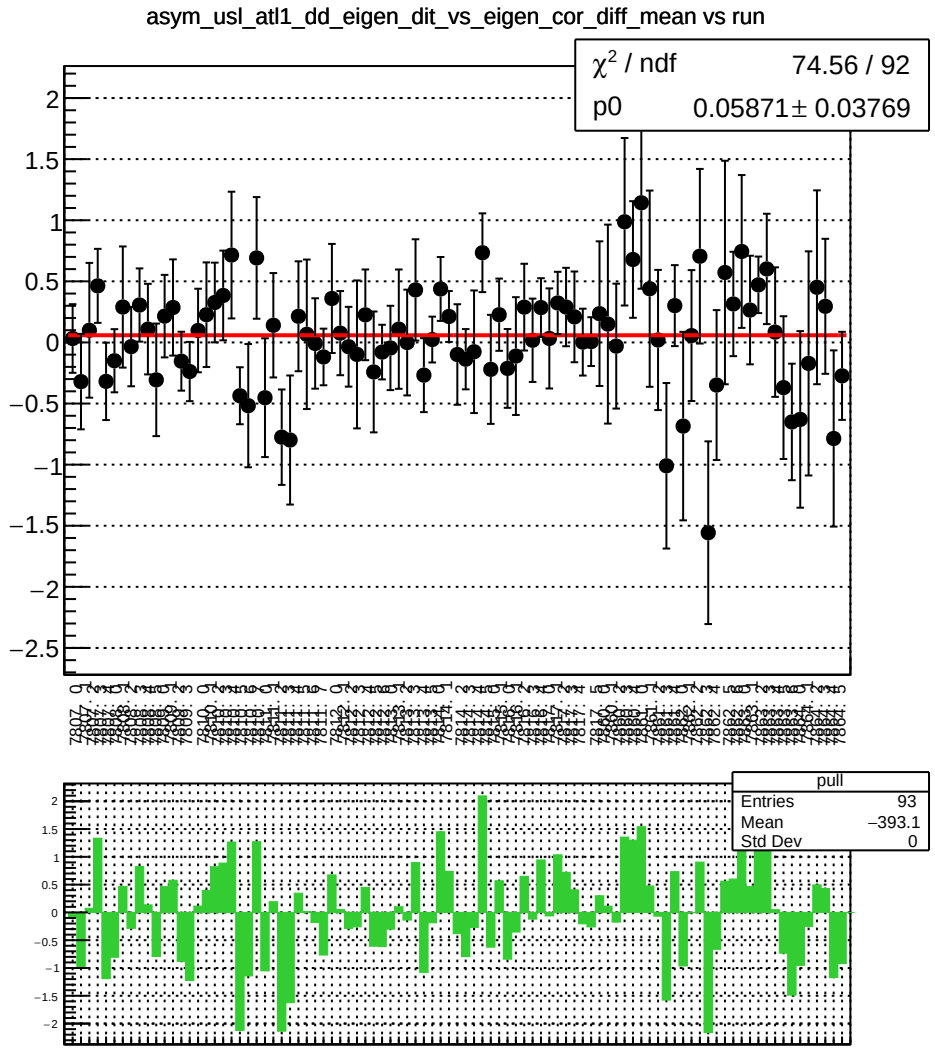

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.965e+05 / 92
p0 34.28 ± 0.02665
90
80
70
60
50
40
30
20

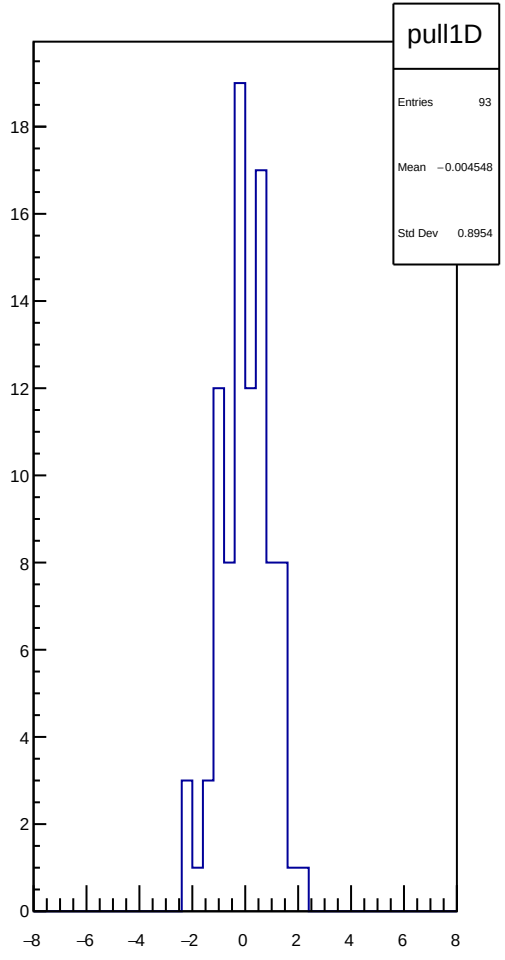

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.73 / 92
p0 −1.524e−06 ± 1.247e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 93
Mean 251.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.01027
Std Dev 0.9767
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

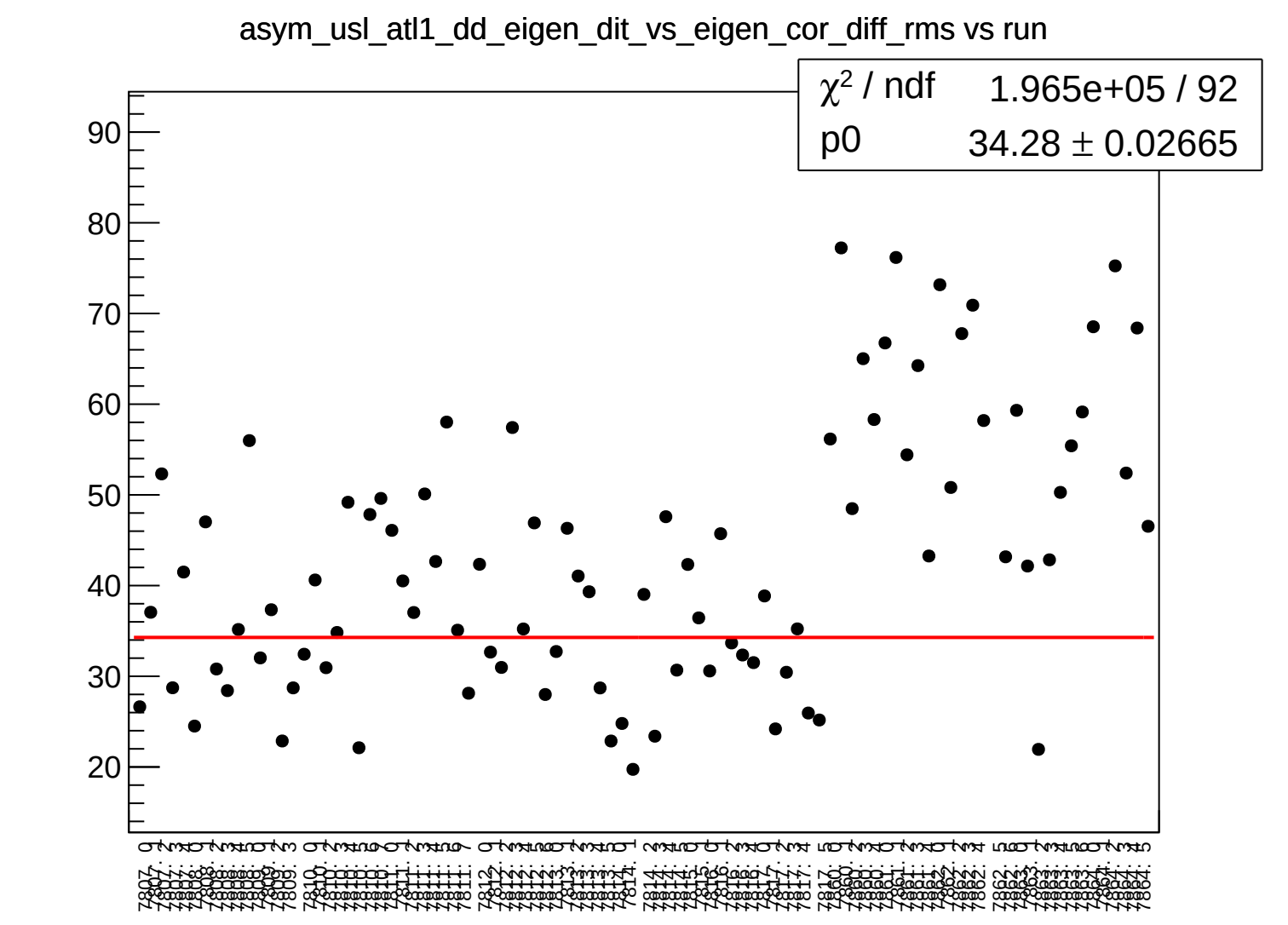

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.591e+05 / 92
p0 0.001112 ± 8.814e−07
0.0035
0.003
0.0025
0.002
0.0015
0.001

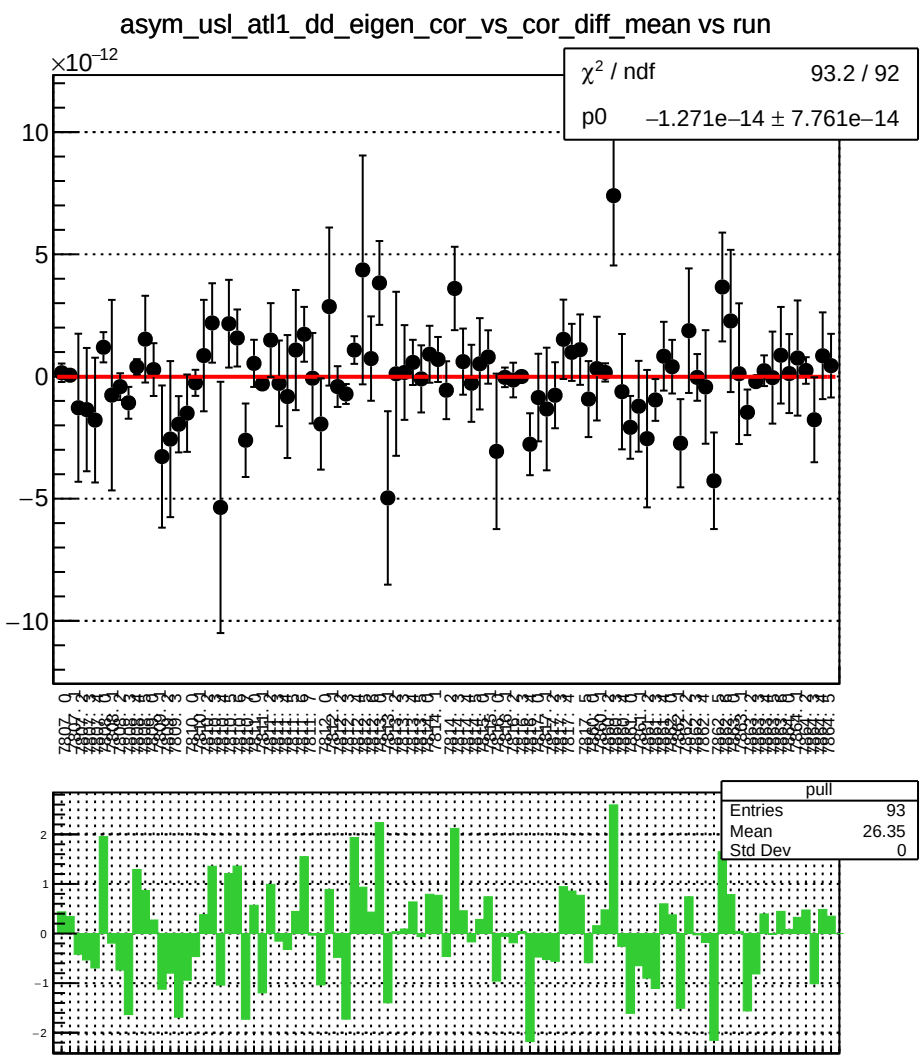

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 74.56 / 92
p0 0.05871 ± 0.03769
pull
Entries 93
Mean −393.1
Std Dev 0
pull1D
Entries 93
Mean −0.004548
Std Dev 0.8954

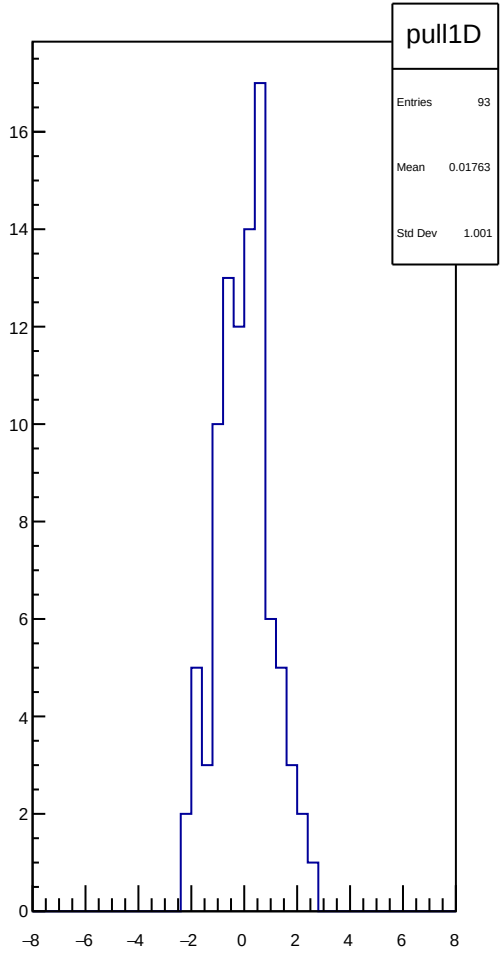

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.965e+05 / 92
p0 34.28 ± 0.02665
90
80
70
60
50
40
30
20

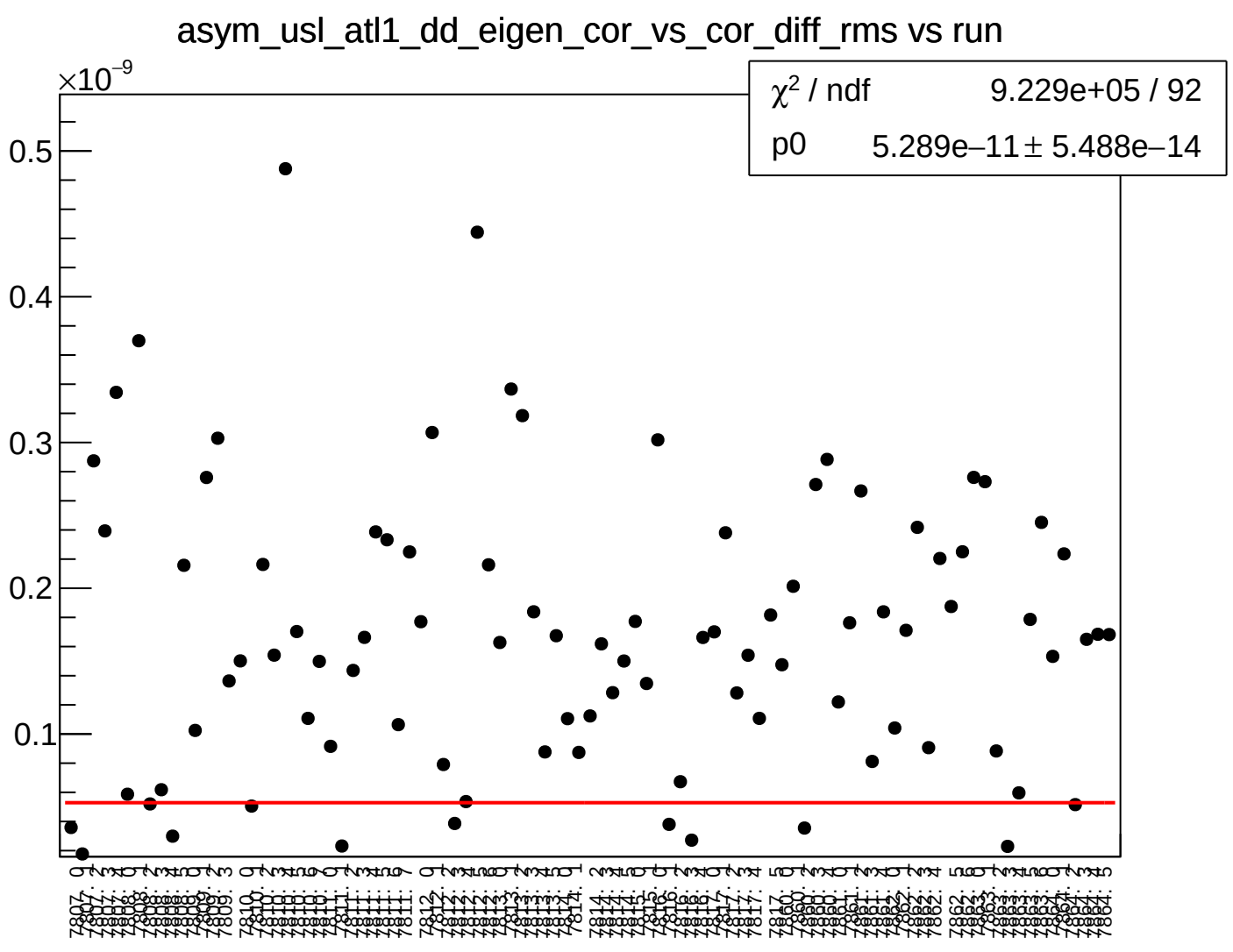

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.56 / 92
p0 0.05871 ± 0.03769
pull
Entries 93
Mean −393.1
Std Dev 0

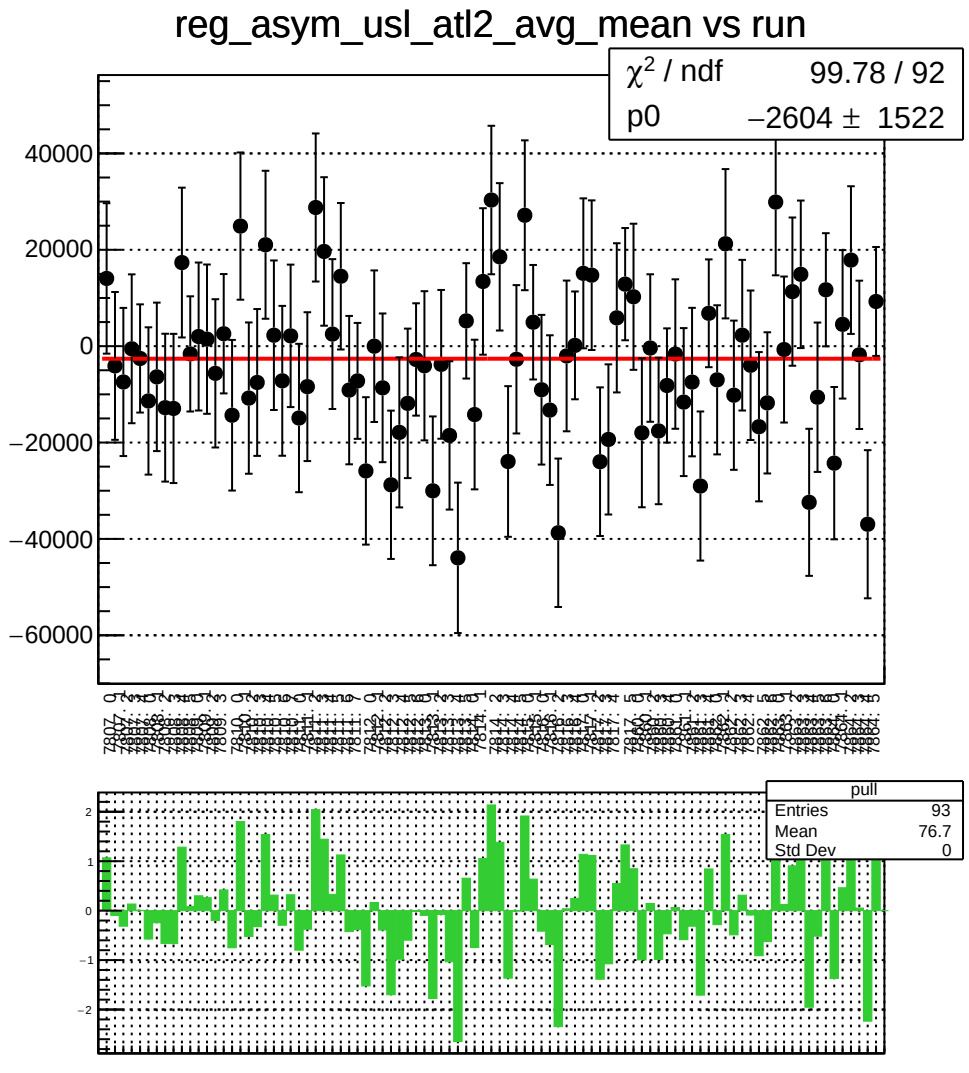

pull1D
Entries 93
Mean −0.004548
Std Dev 0.8954

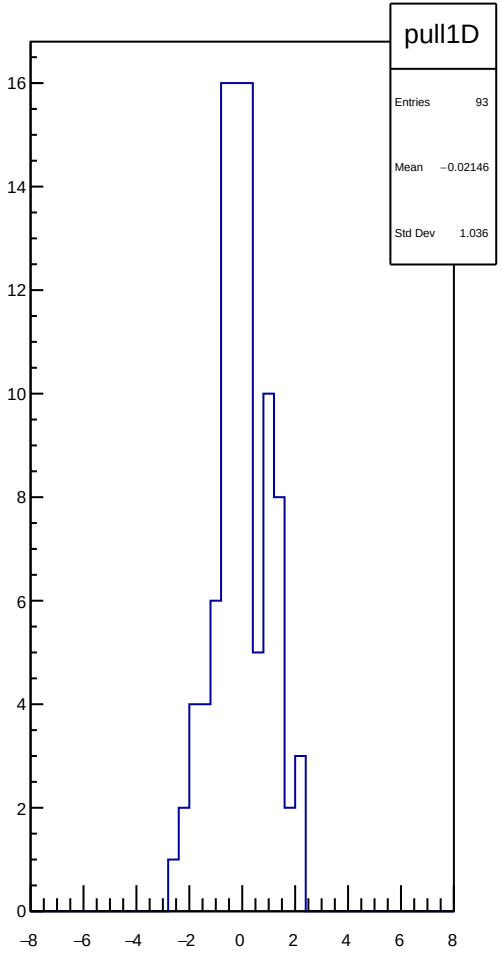

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.965e+05 / 92
p0 34.28 ± 0.02665
90
80
70
60
50
40
30
20

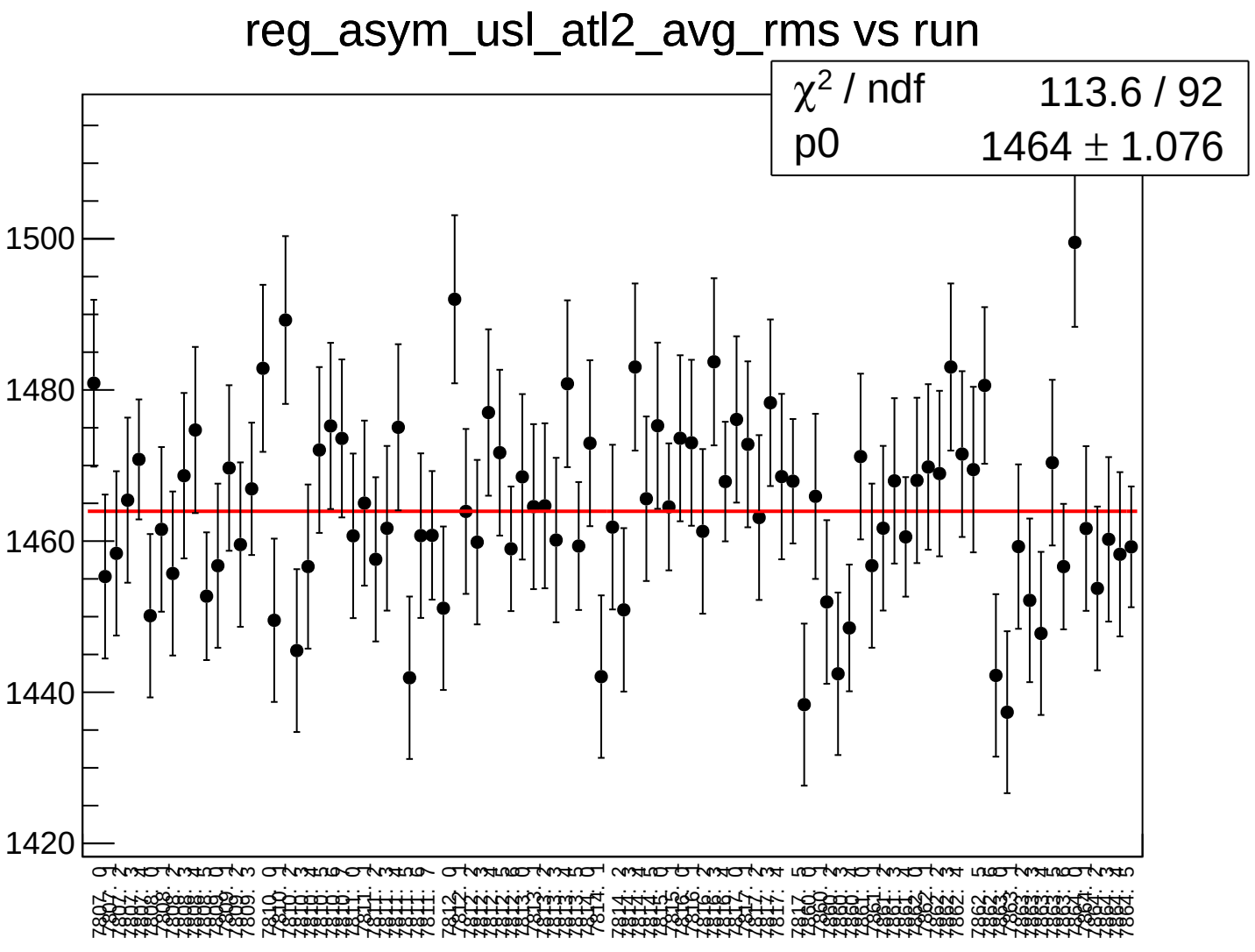

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.2 / 92
p0 −1.271e−14 ± 7.761e−14
10
5
0
−5
−10
pull
Entries 93
Mean 26.35
Std Dev 0
2
1
0
−1
−2

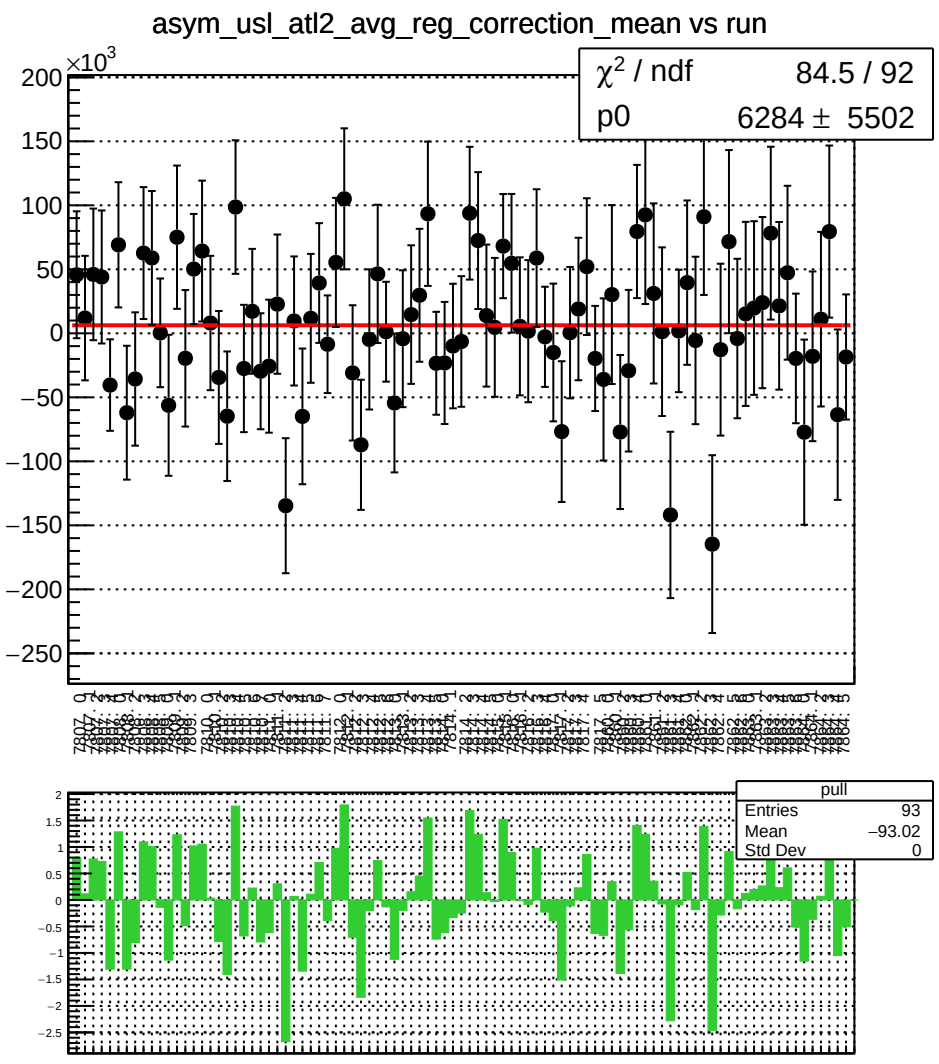

pull1D
Entries 93
Mean 0.01763
Std Dev 1.001
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

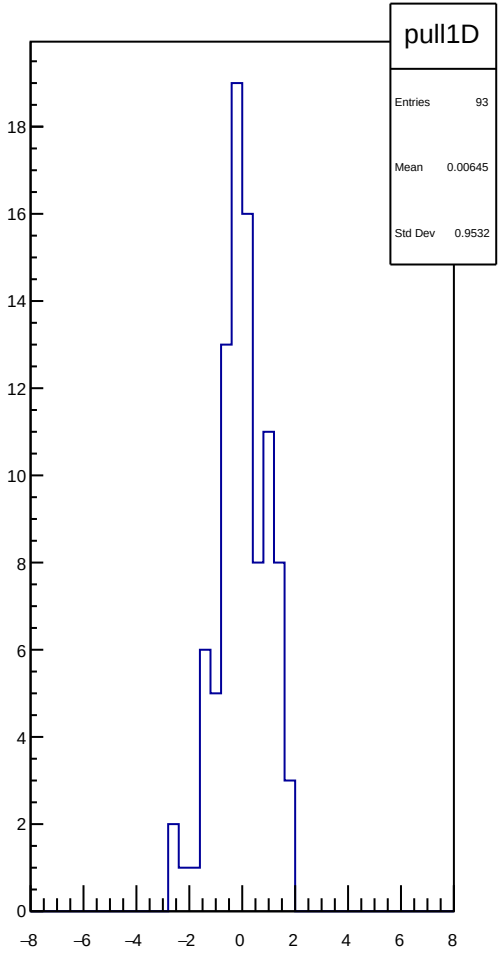

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.229e+05 / 92
p0 5.289e−11 ± 5.488e−14
0.5
0.4
0.3
0.2
0.1

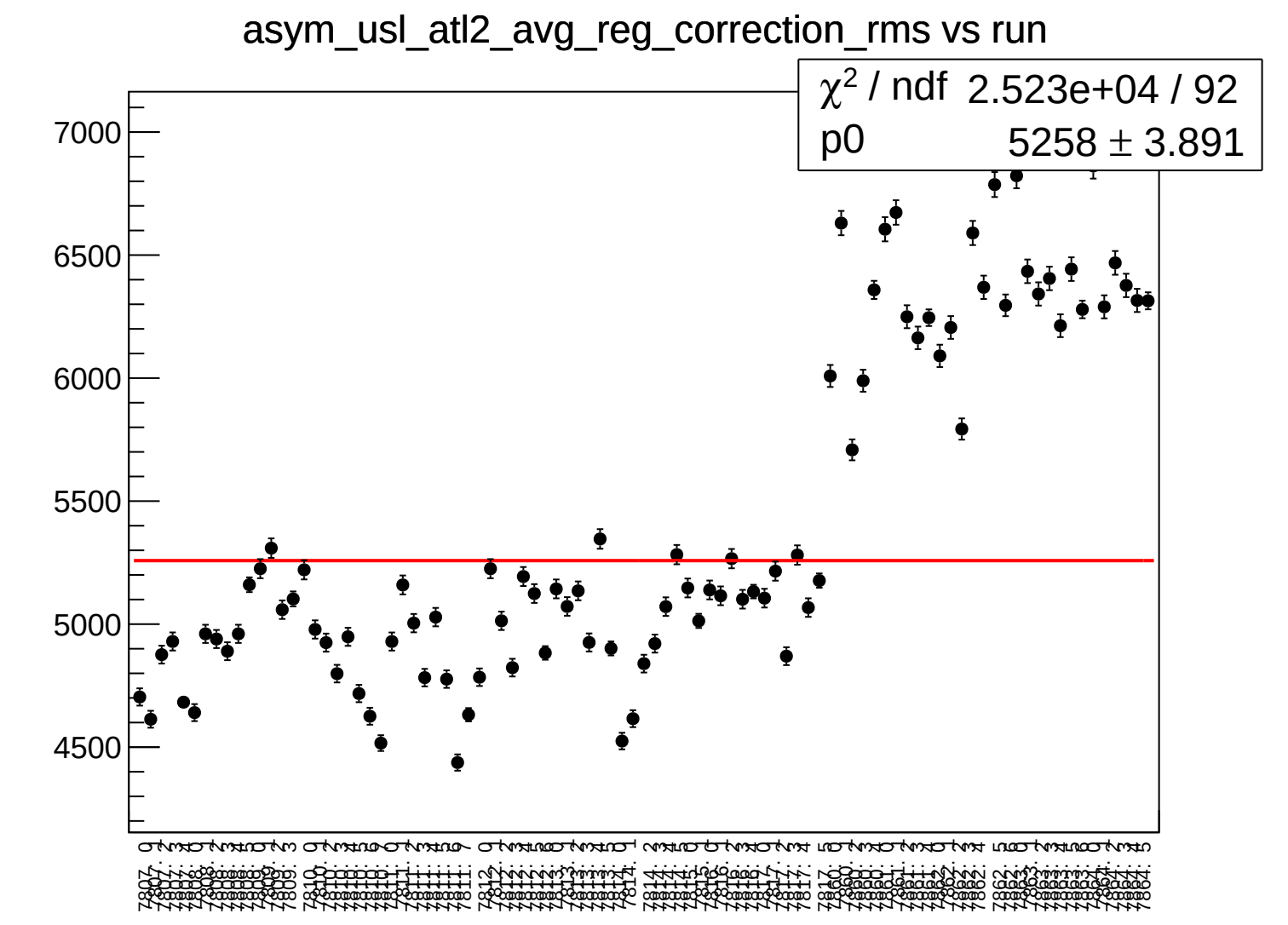

reg_asym_usl_atl2_avg_mean vs run
χ² / ndf 99.78 / 92
p0 −2604 ± 1522
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 76.7
Std Dev 0
2
1
0
−1
−2

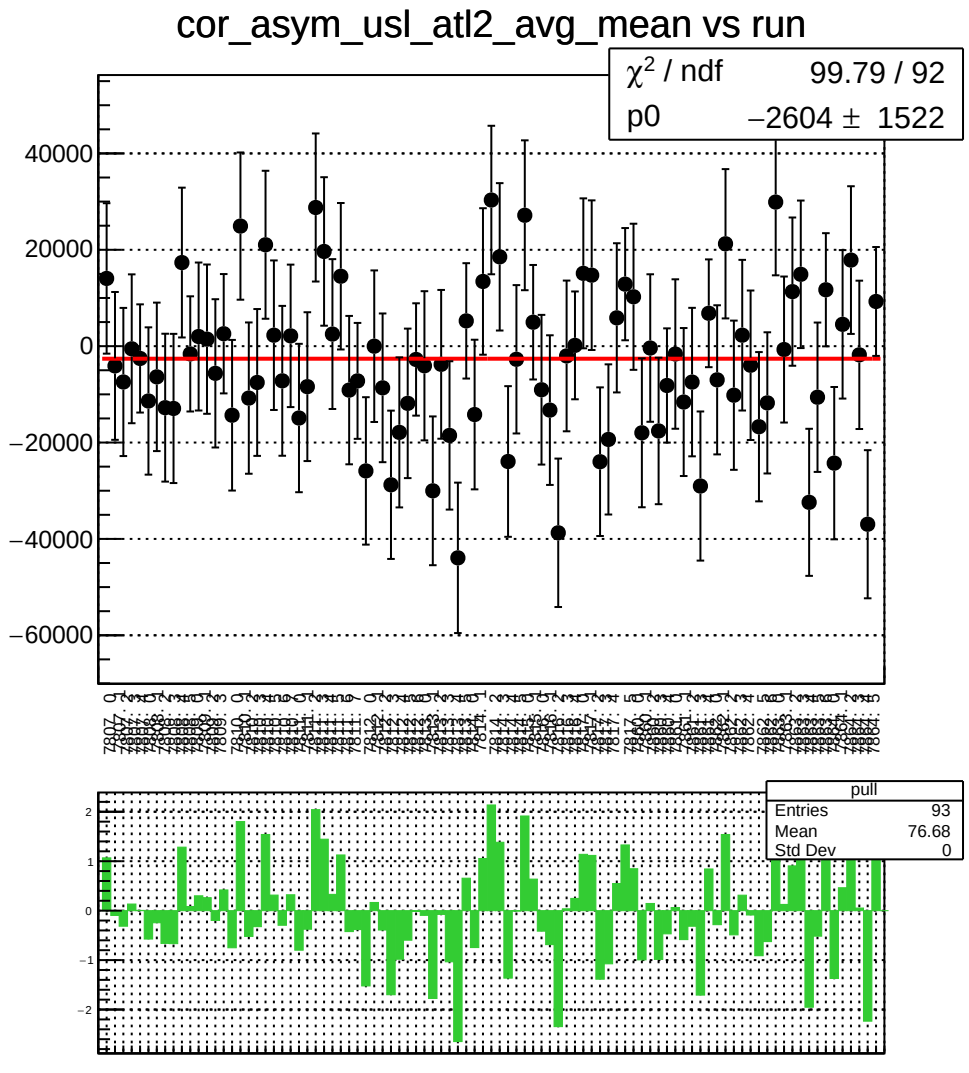

pull1D
Entries 93
Mean −0.02146
Std Dev 1.036
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

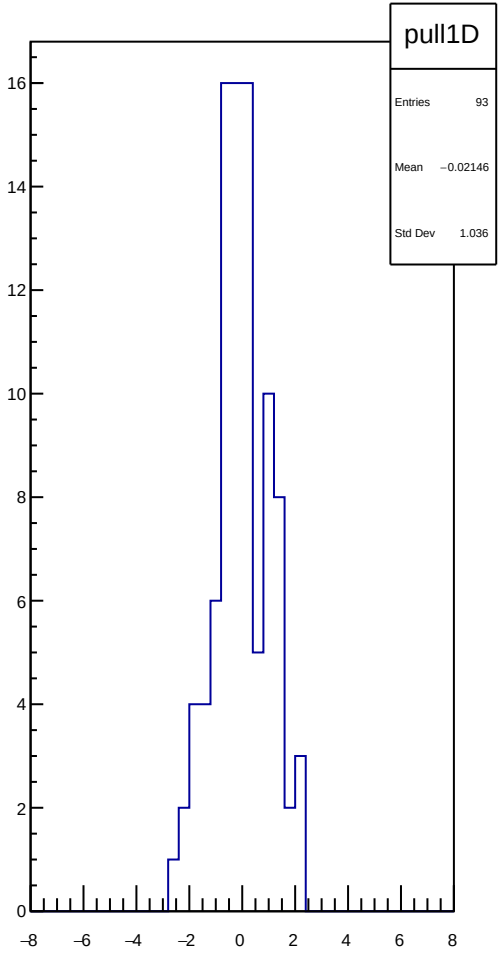

reg_asym_usl_atl2_avg_rms vs run
χ² / ndf 113.6 / 92
p0 1464 ± 1.076
1500
1480
1460
1440
1420

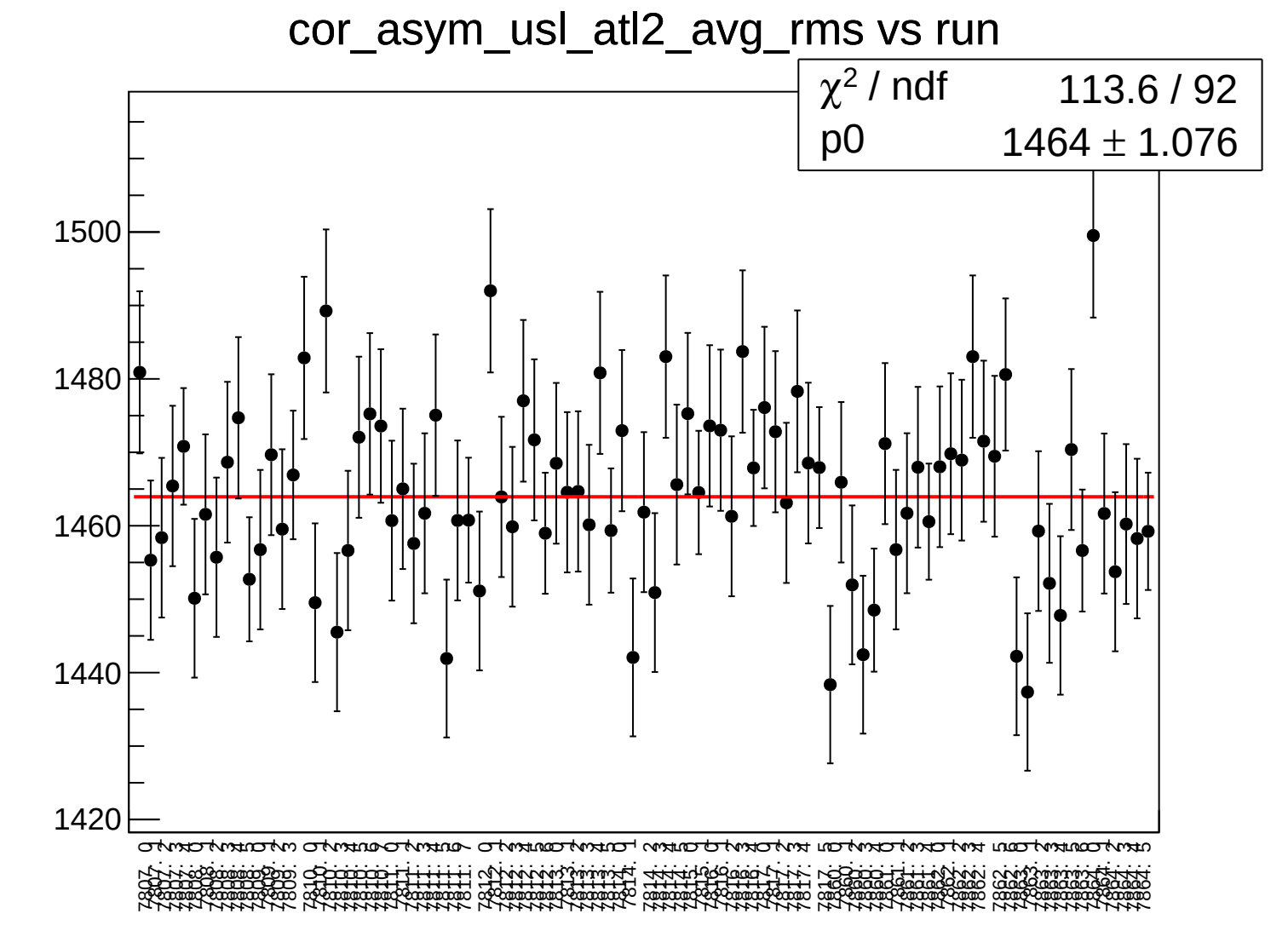

asym_usl_atl2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 84.5 / 92
p0 6284 ± 5502
pull
Entries 93
Mean −93.02
Std Dev 0

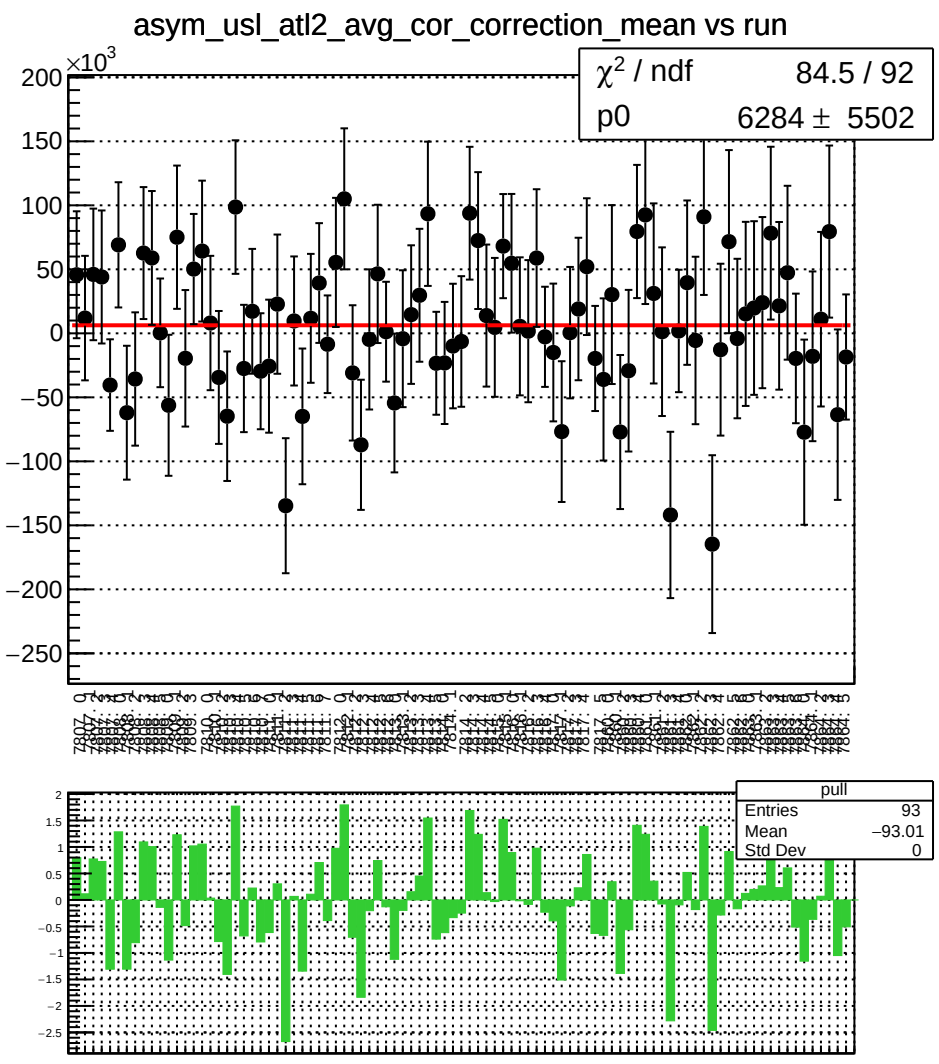

pull1D
Entries 93
Mean 0.00645
Std Dev 0.9532

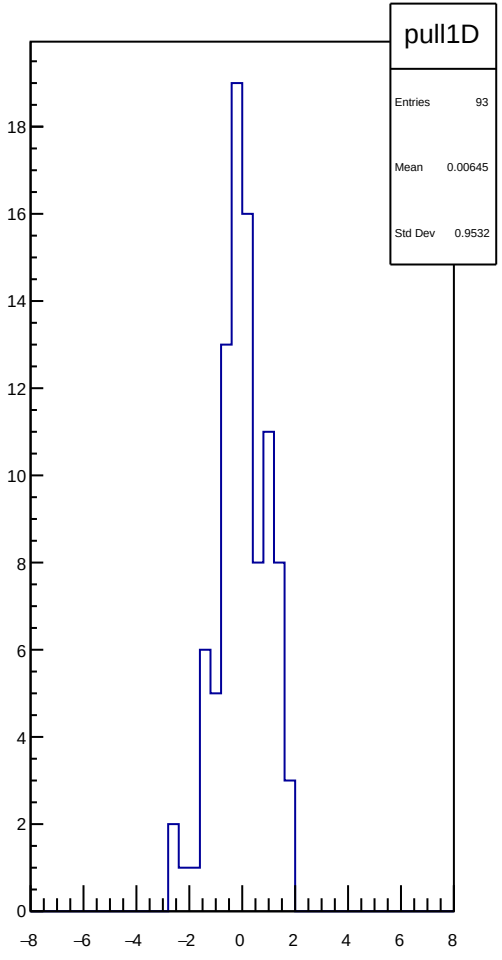

asym_usl_atl2_avg_reg_correction_rms vs run
χ² / ndf 2.523e+04 / 92
p0 5258 ± 3.891
7000
6500
6000
5500
5000
4500

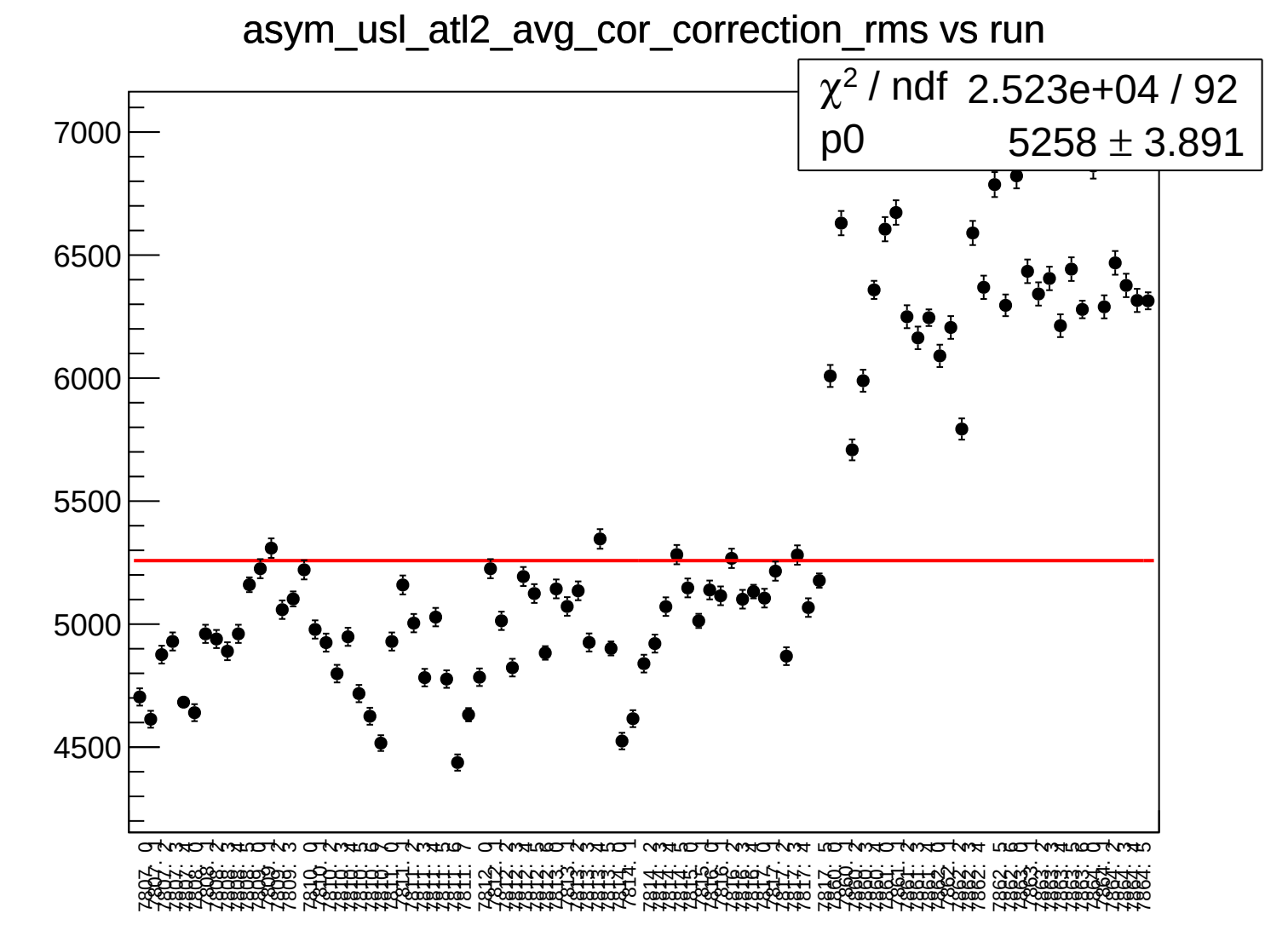

cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 99.79 / 92
p0 −2604 ± 1522
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 76.68
Std Dev 0
2
1
0
−1
−2

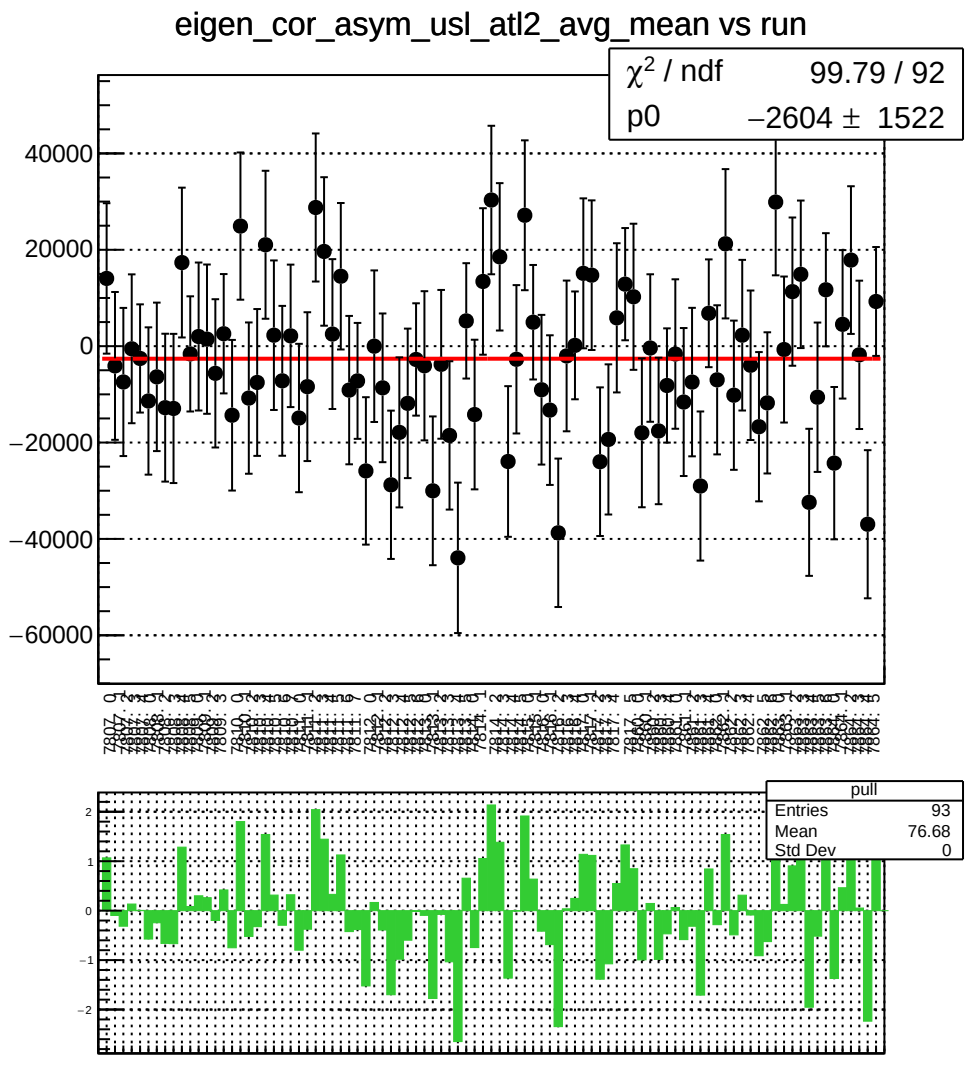

pull1D
Entries 93
Mean −0.02146
Std Dev 1.036
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

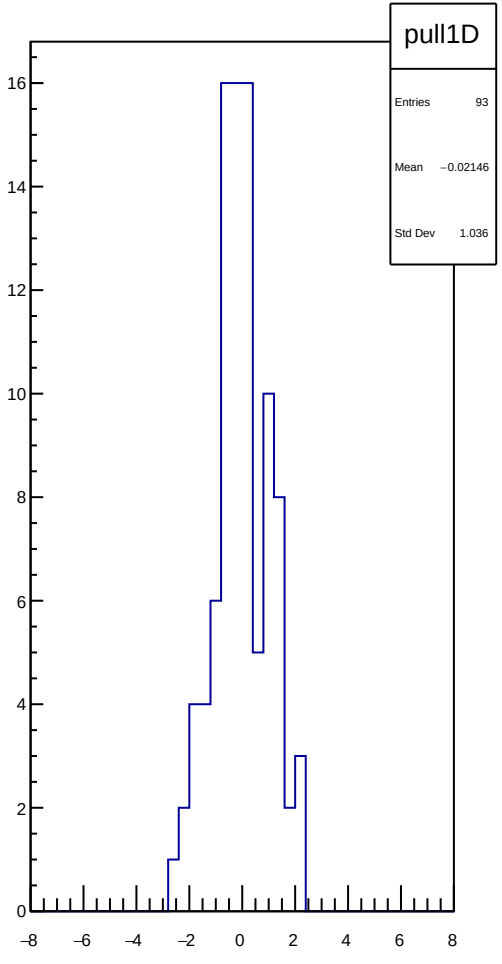

cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 113.6 / 92
p0 1464 ± 1.076
1500
1480
1460
1440
1420

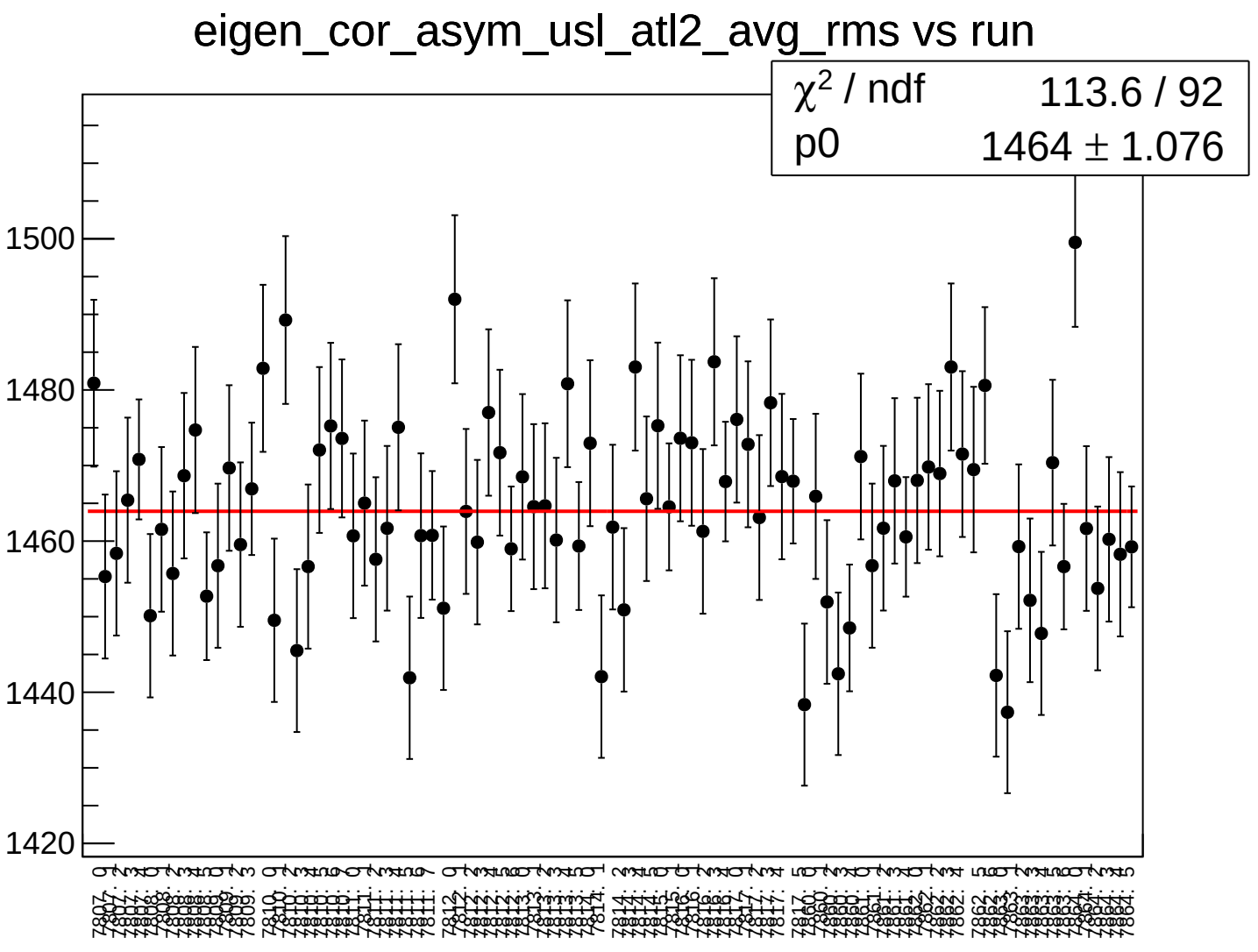

asym_usl_atl2_avg_cor_correction_mean vs run
χ² / ndf 84.5 / 92
p0 6284 ± 5502
pull
Entries 93
Mean −93.01
Std Dev 0

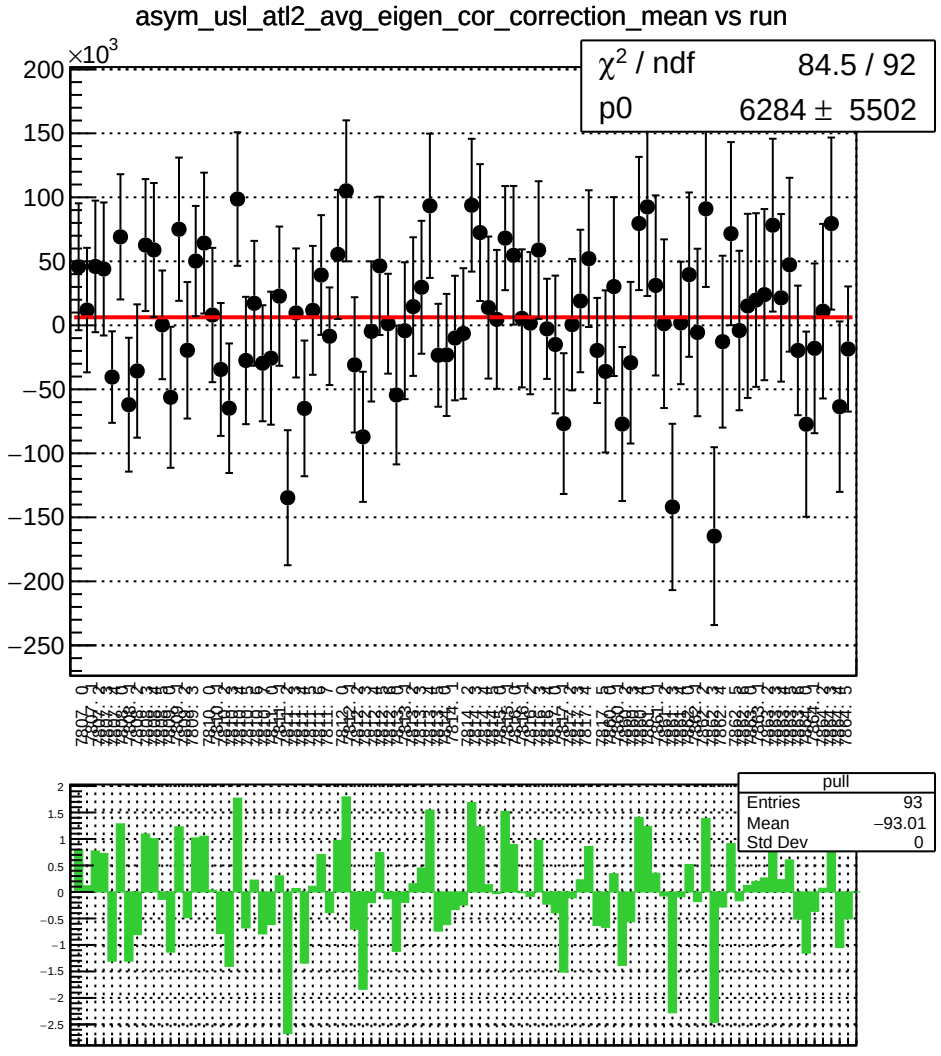

pull1D
Entries 93
Mean 0.00645
Std Dev 0.9532

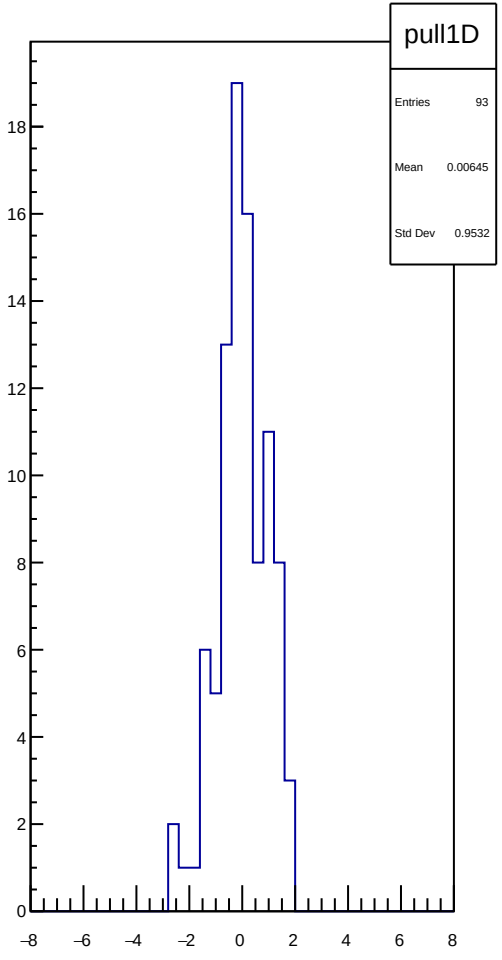

asym_usl_atl2_avg_cor_correction_rms vs run
χ^2 / ndf 2.523e+04 / 92
p0 5258 ± 3.891
7000
6500
6000
5500
5000
4500

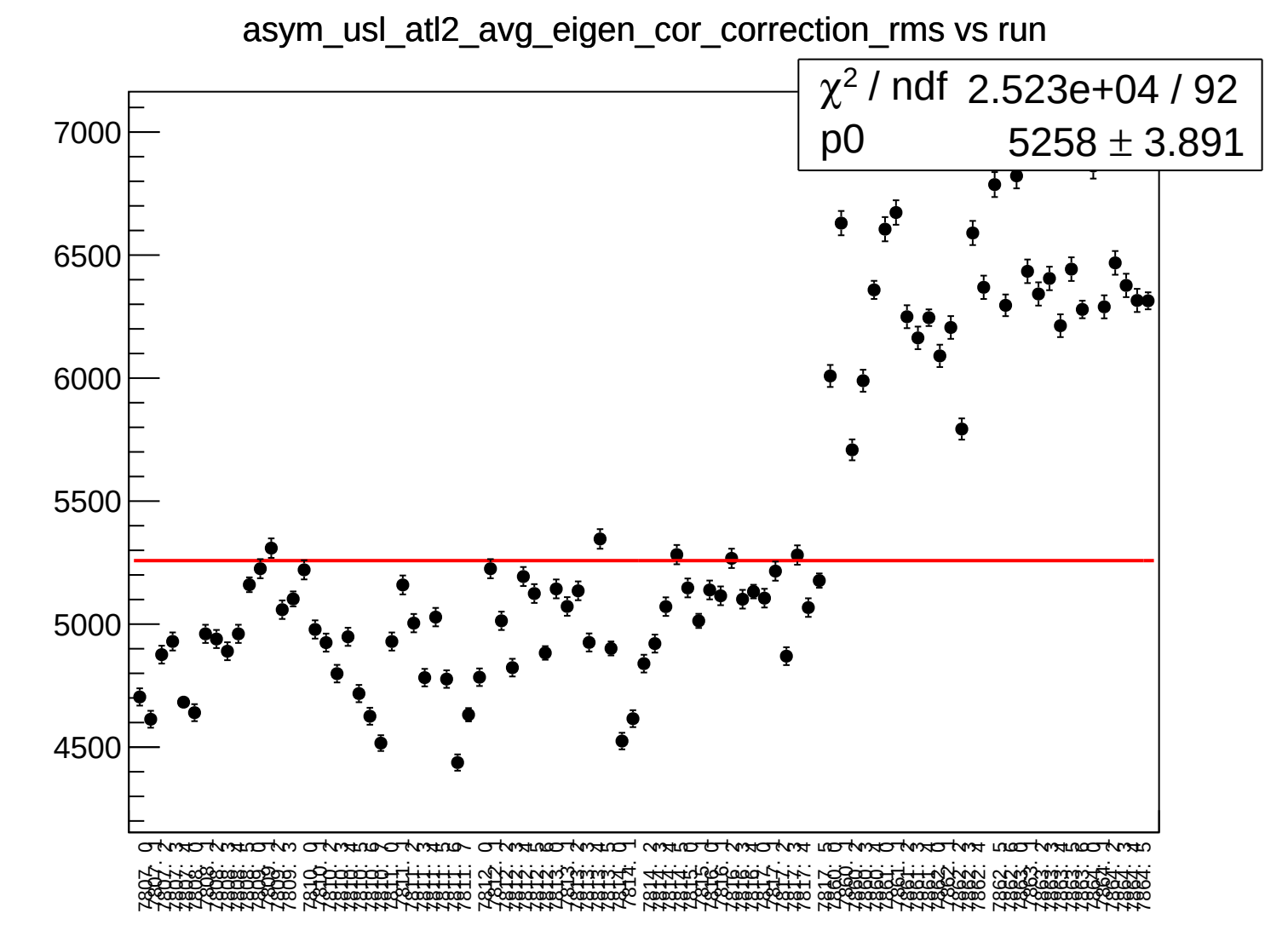

eigen_cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 99.79 / 92
p0 −2604 ± 1522
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 76.68
Std Dev 0
2
1
0
−1
−2

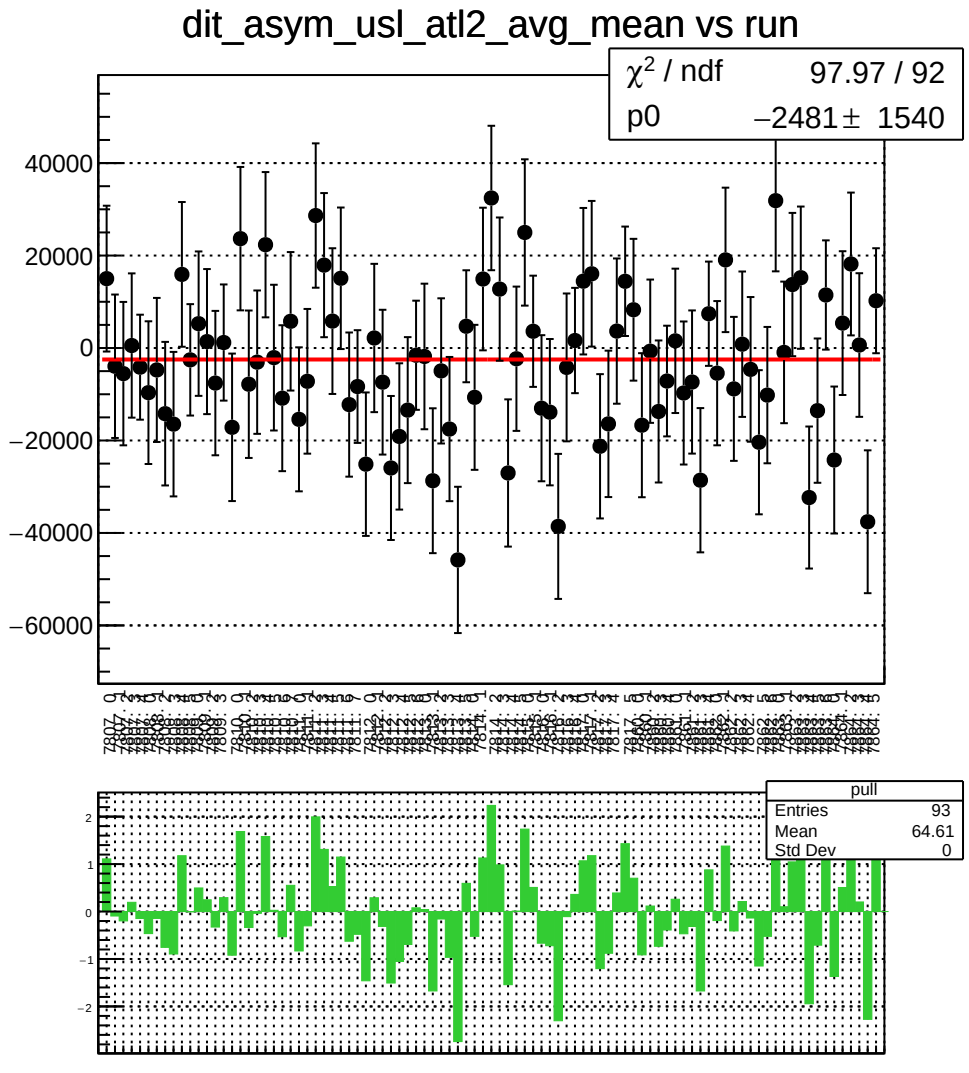

pull1D
Entries 93
Mean −0.02146
Std Dev 1.036
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

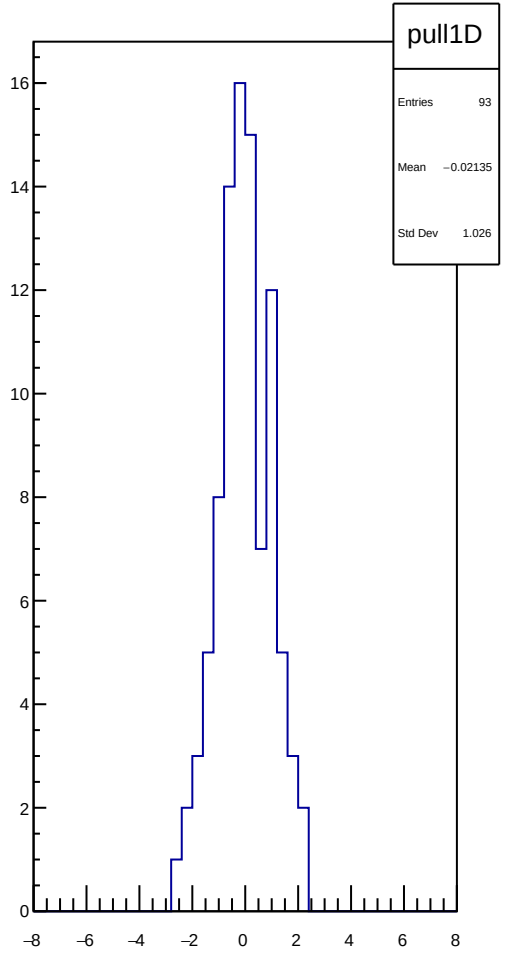

eigen_cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 113.6 / 92
p0 1464 ± 1.076
1500
1480
1460
1440
1420

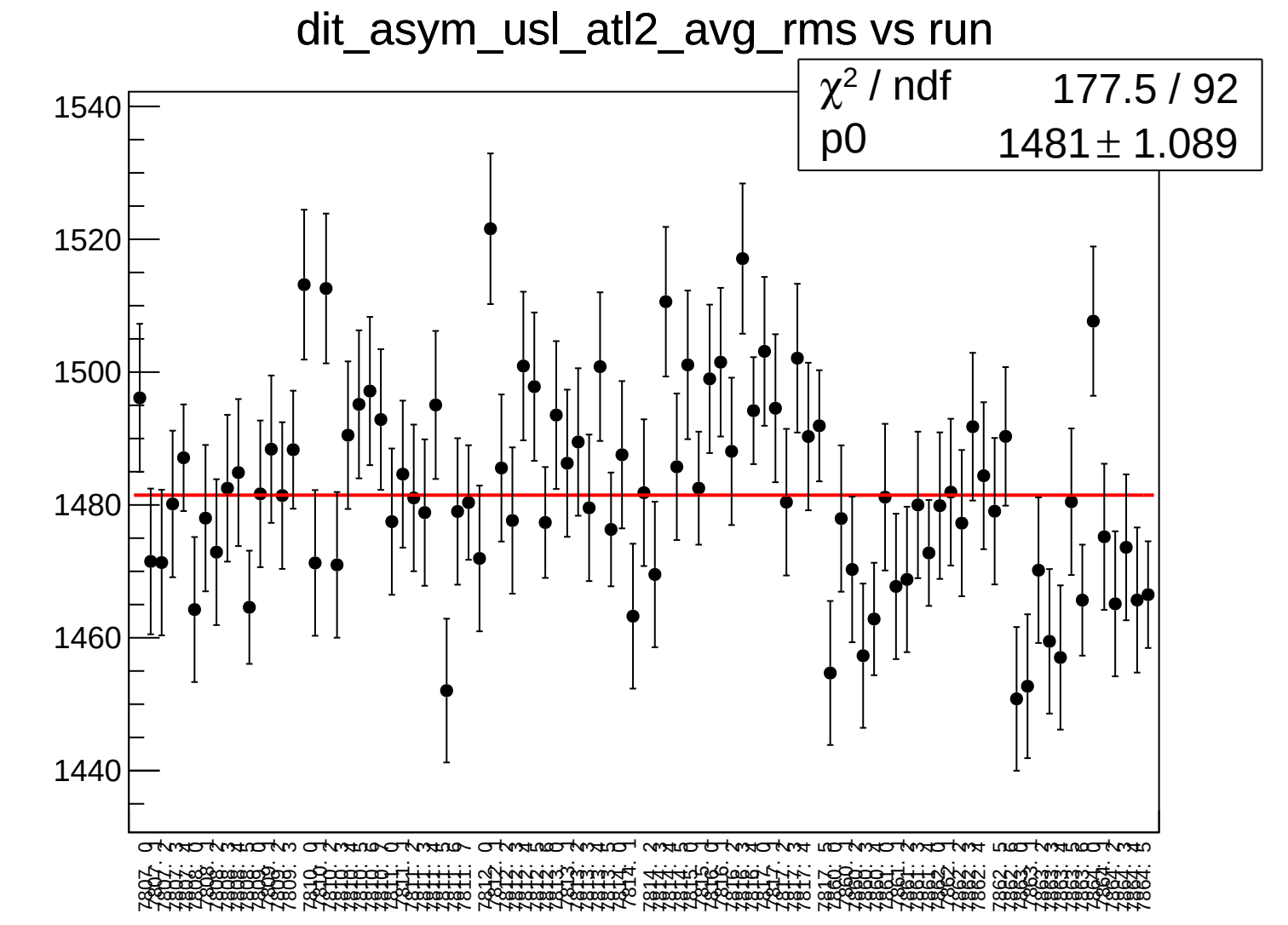

asym_usl_atl2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 84.5 / 92
p0 6284 ± 5502
pull
Entries 93
Mean −93.01
Std Dev 0

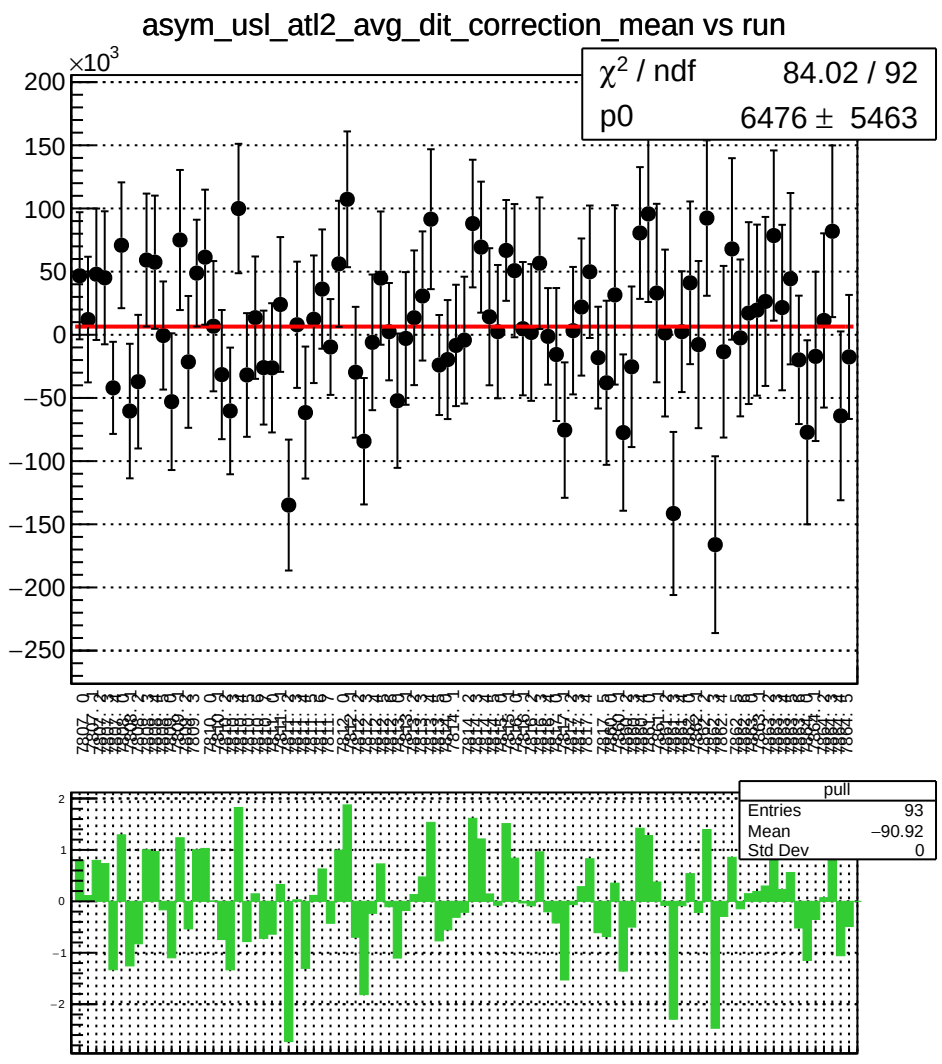

pull1D
Entries 93
Mean 0.00645
Std Dev 0.9532

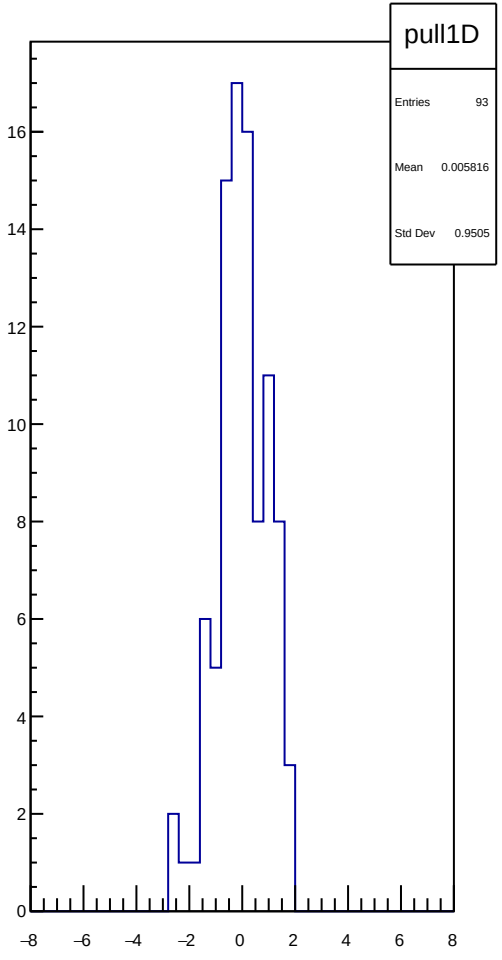

asym_usl_atl2_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.523e+04 / 92
p0 5258 ± 3.891
7000
6500
6000
5500
5000
4500

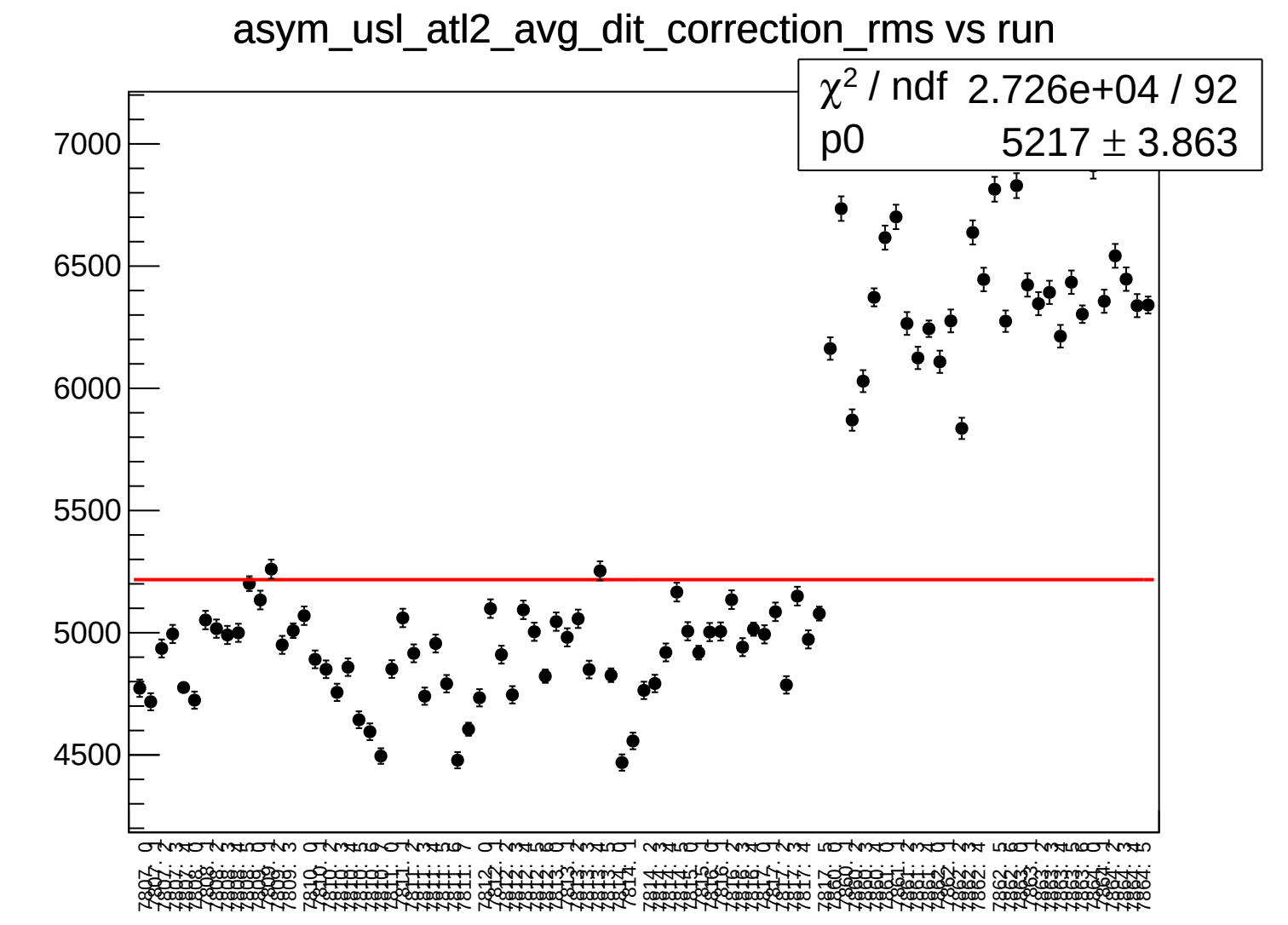

dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 97.97 / 92
p0 −2481 ± 1540
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 64.61
Std Dev 0
2
1
0
−1
−2

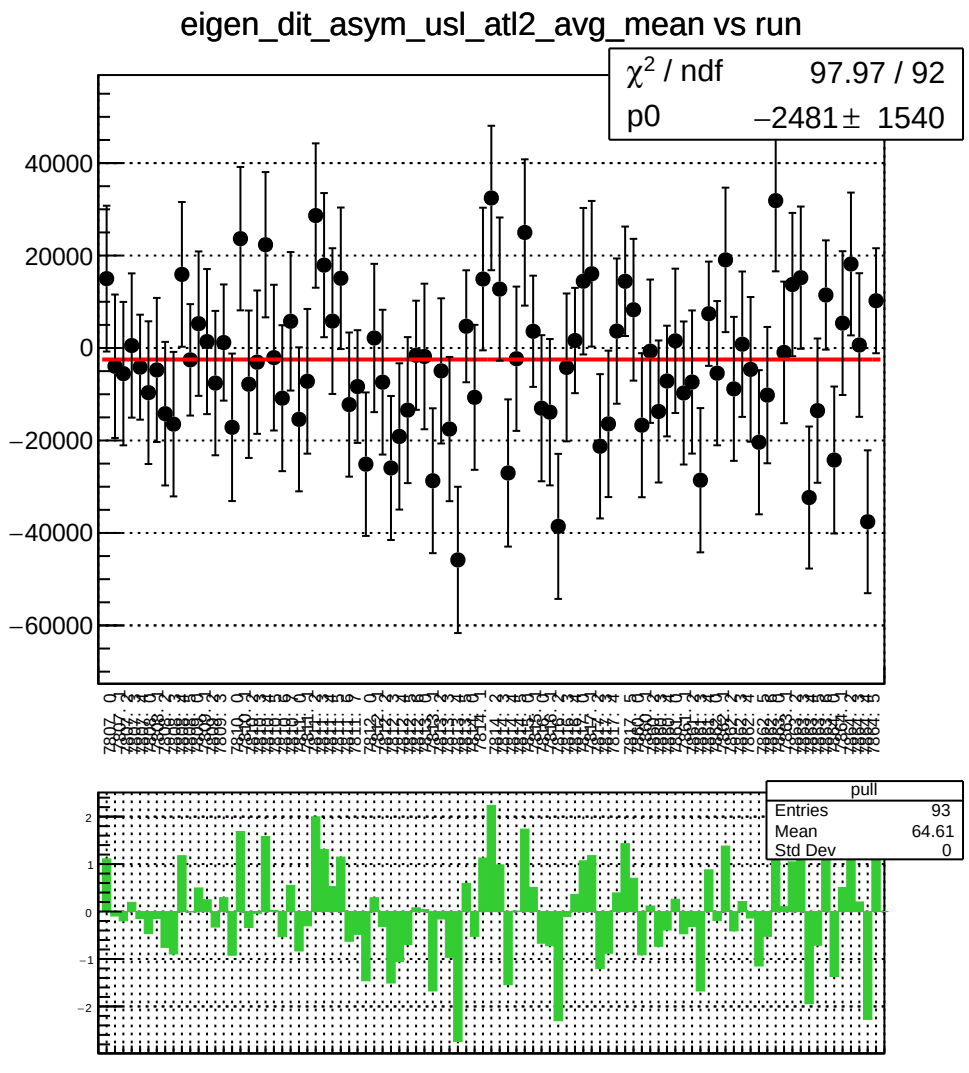

pull1D
Entries 93
Mean −0.02135
Std Dev 1.026
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

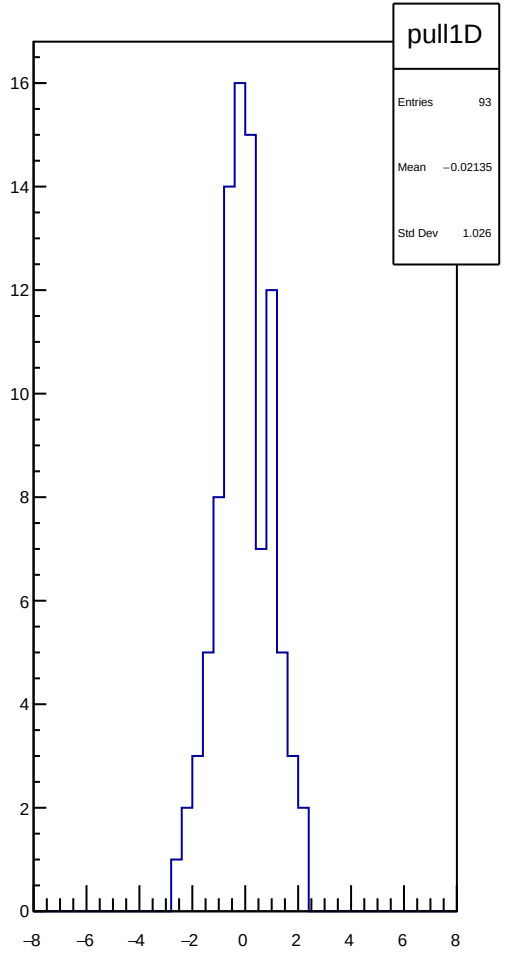

dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 177.5 / 92
p0 1481 ± 1.089
1540
1520
1500
1480
1460
1440

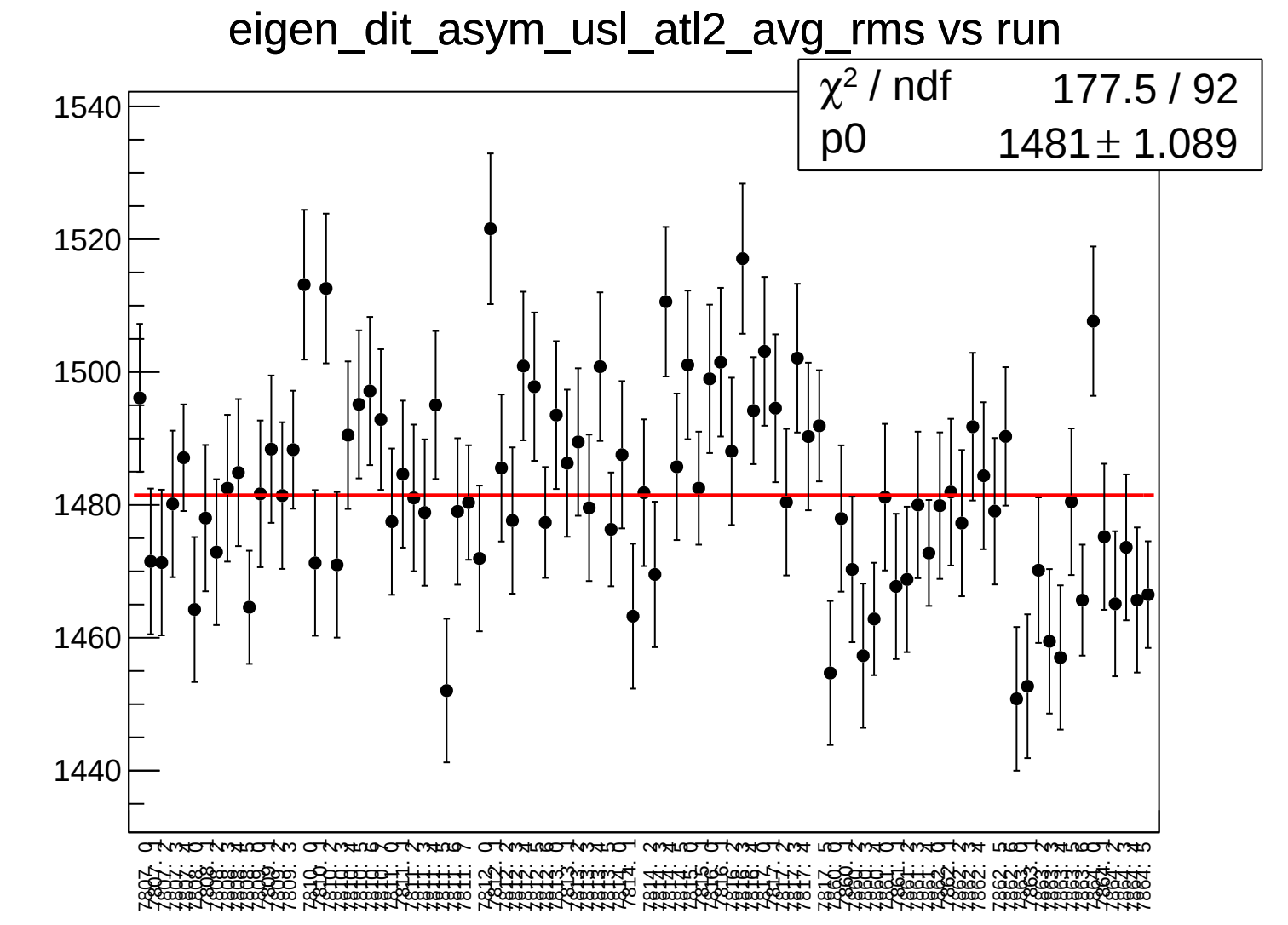

asym_usl_atl2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 84.02 / 92
p0 6476 ± 5463
pull
Entries 93
Mean −90.92
Std Dev 0

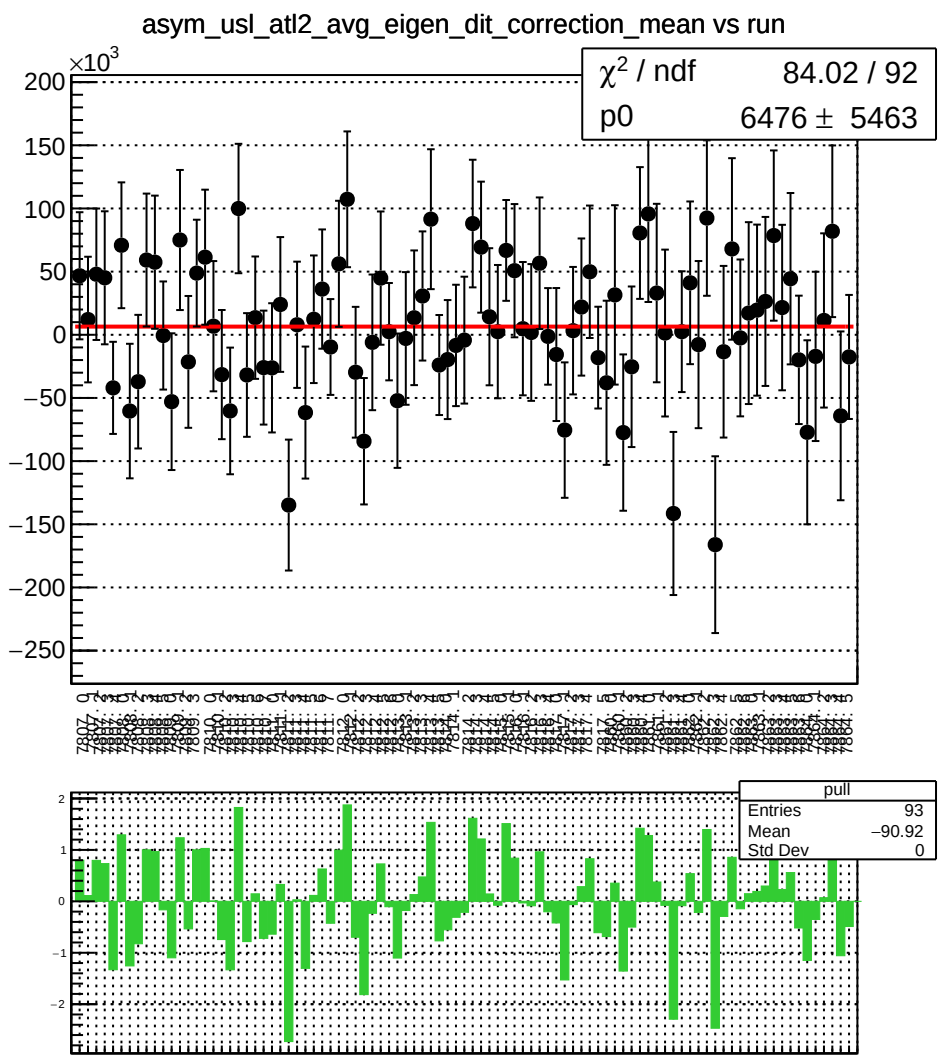

pull1D
Entries 93
Mean 0.005816
Std Dev 0.9505

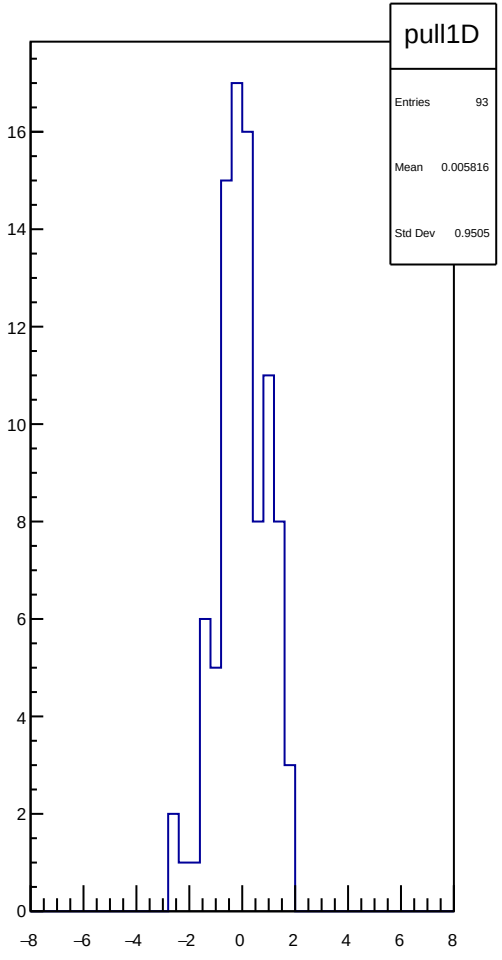

asym_usl_atl2_avg_dit_correction_rms vs run
χ² / ndf 2.726e+04 / 92
p0 5217 ± 3.863
7000
6500
6000
5500
5000
4500

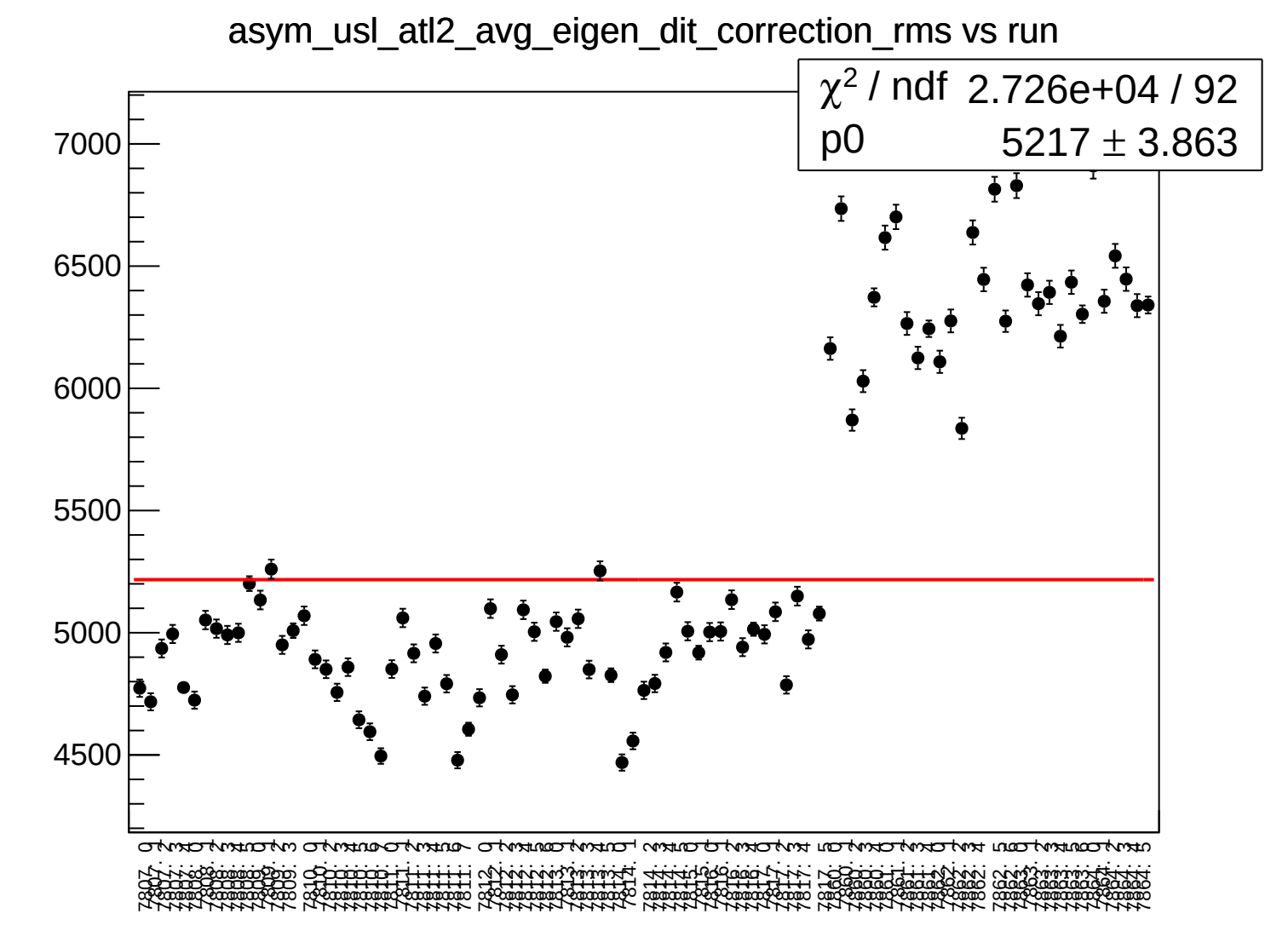

eigen_dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 97.97 / 92
p0 −2481 ± 1540
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 64.61
Std Dev 0
2
1
0
−1
−2

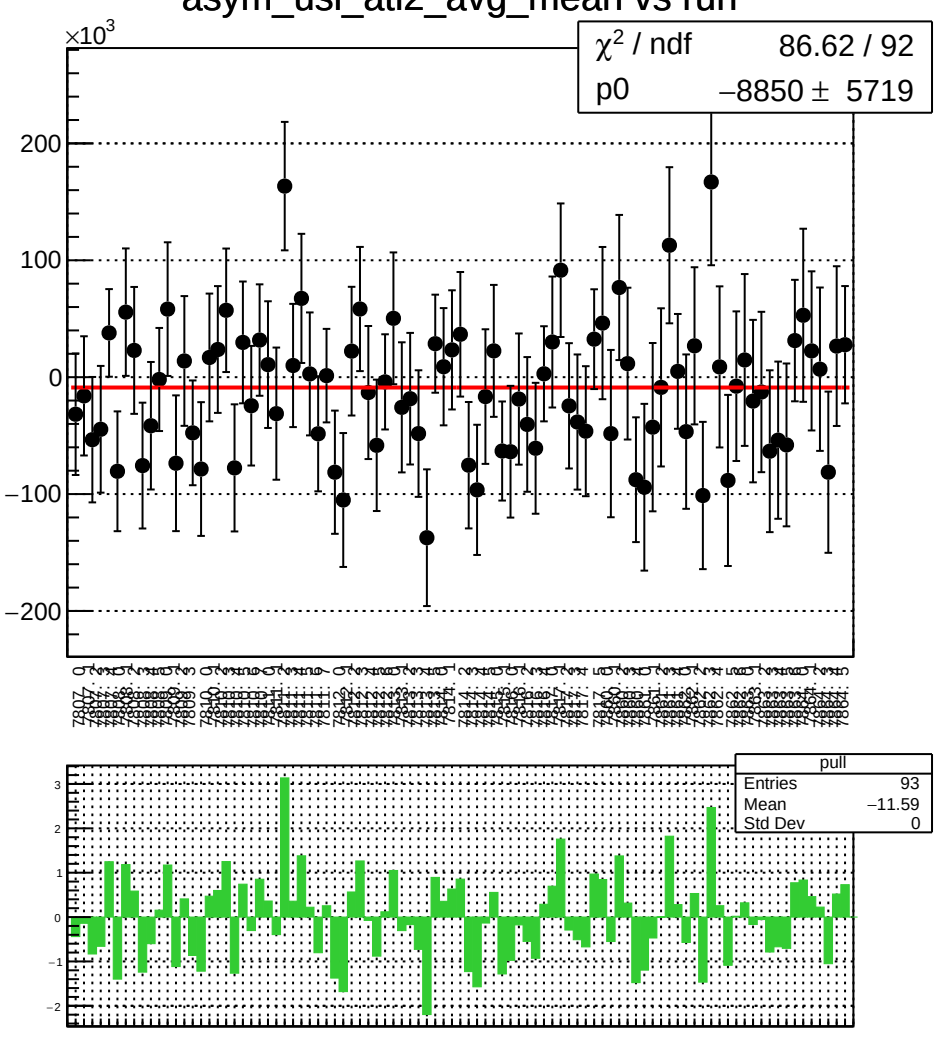

pull1D
Entries 93
Mean −0.02135
Std Dev 1.026
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

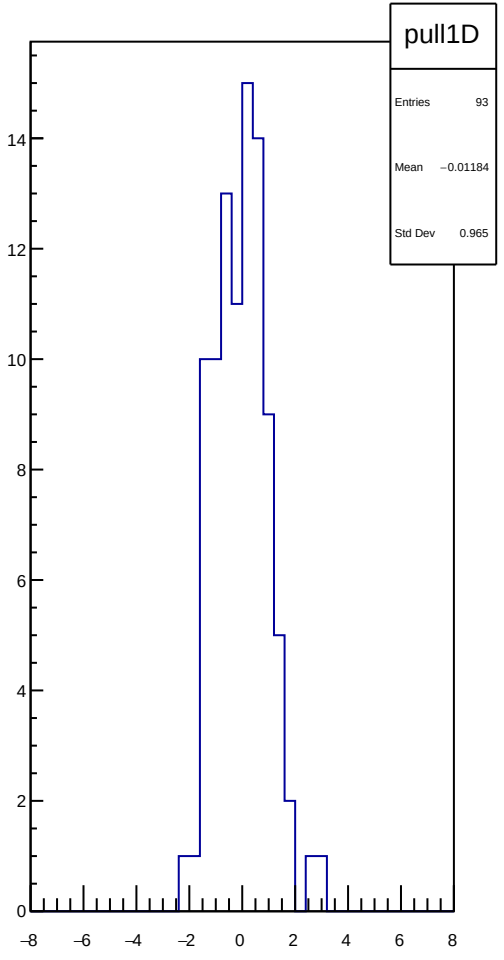

eigen_dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 177.5 / 92
p0 1481 ± 1.089
1540
1520
1500
1480
1460
1440

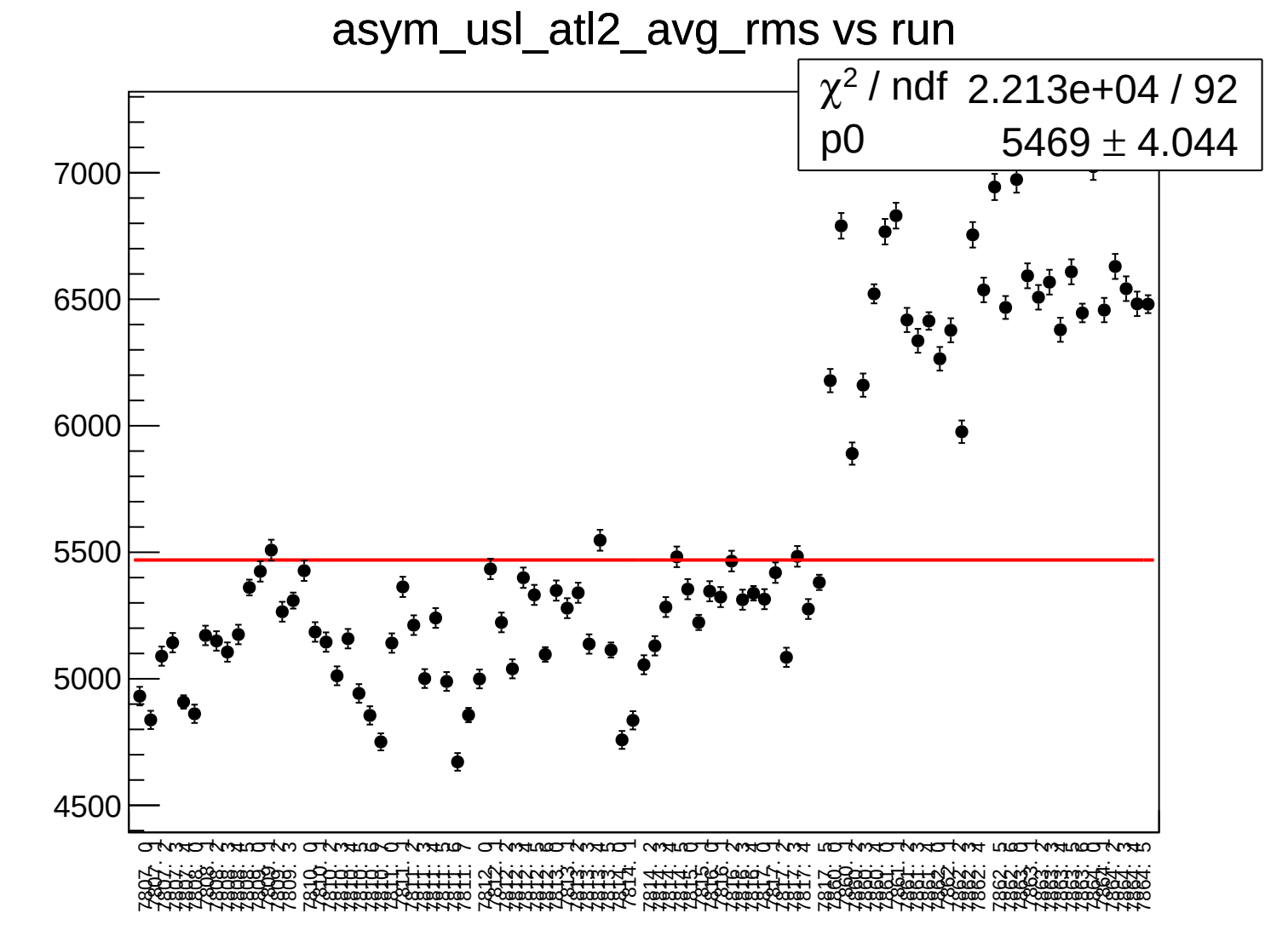

asym_usl_atl2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 84.02 / 92
p0 6476 ± 5463
pull
Entries 93
Mean −90.92
Std Dev 0

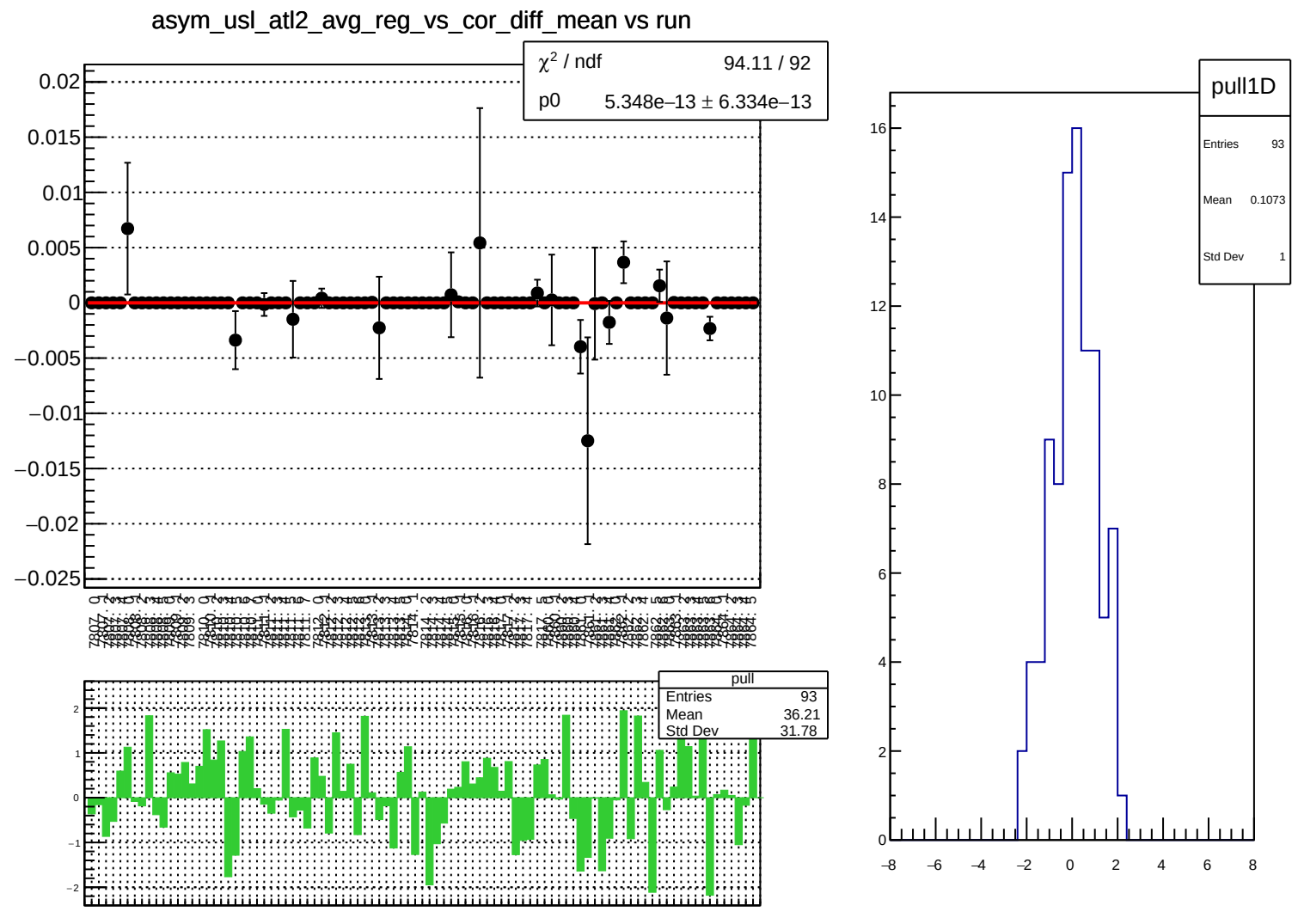

pull1D
Entries 93
Mean 0.005816
Std Dev 0.9505

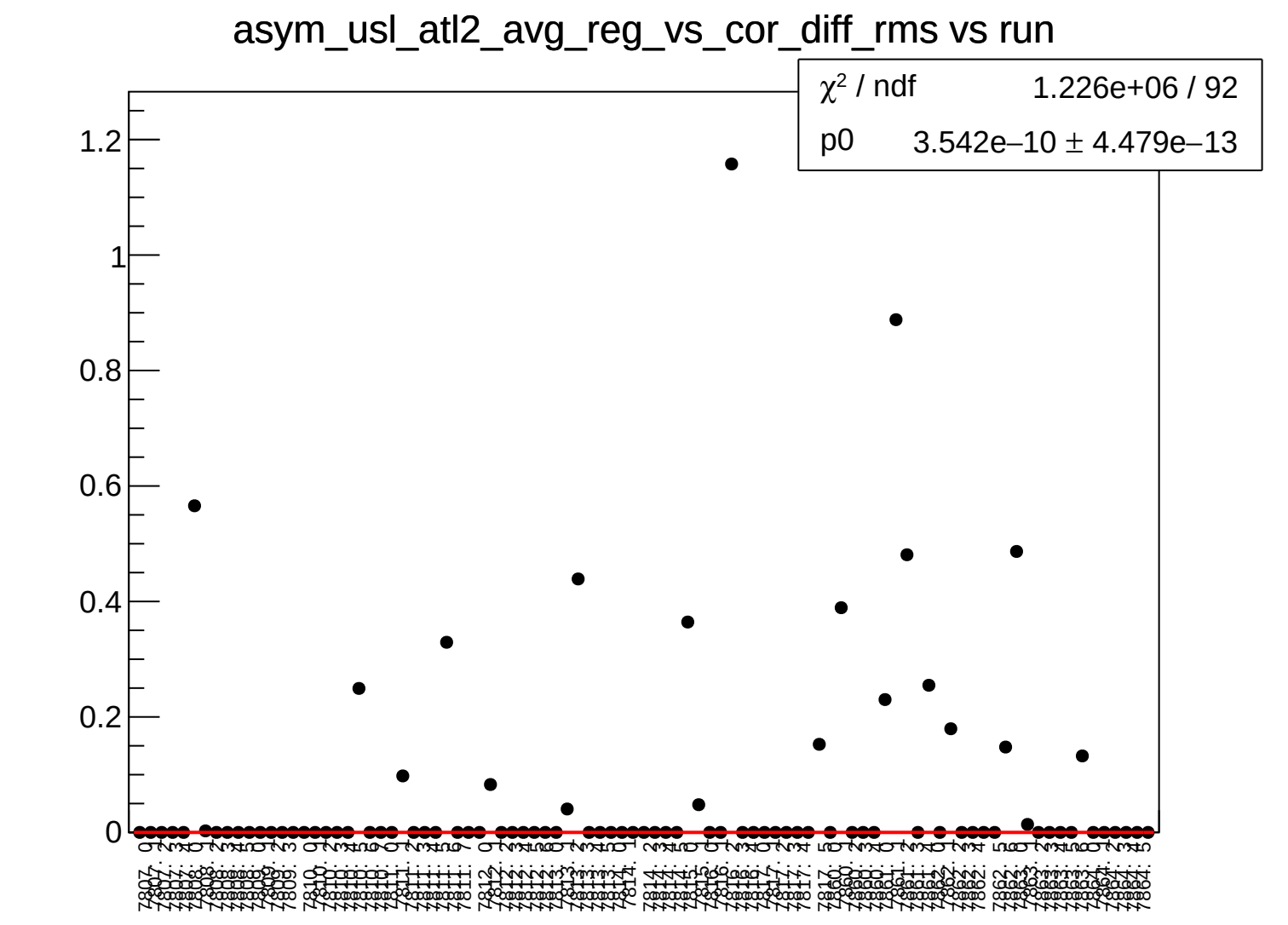

asym_usl_atl2_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.726e+04 / 92
p0 5217 ± 3.863
7000
6500
6000
5500
5000
4500

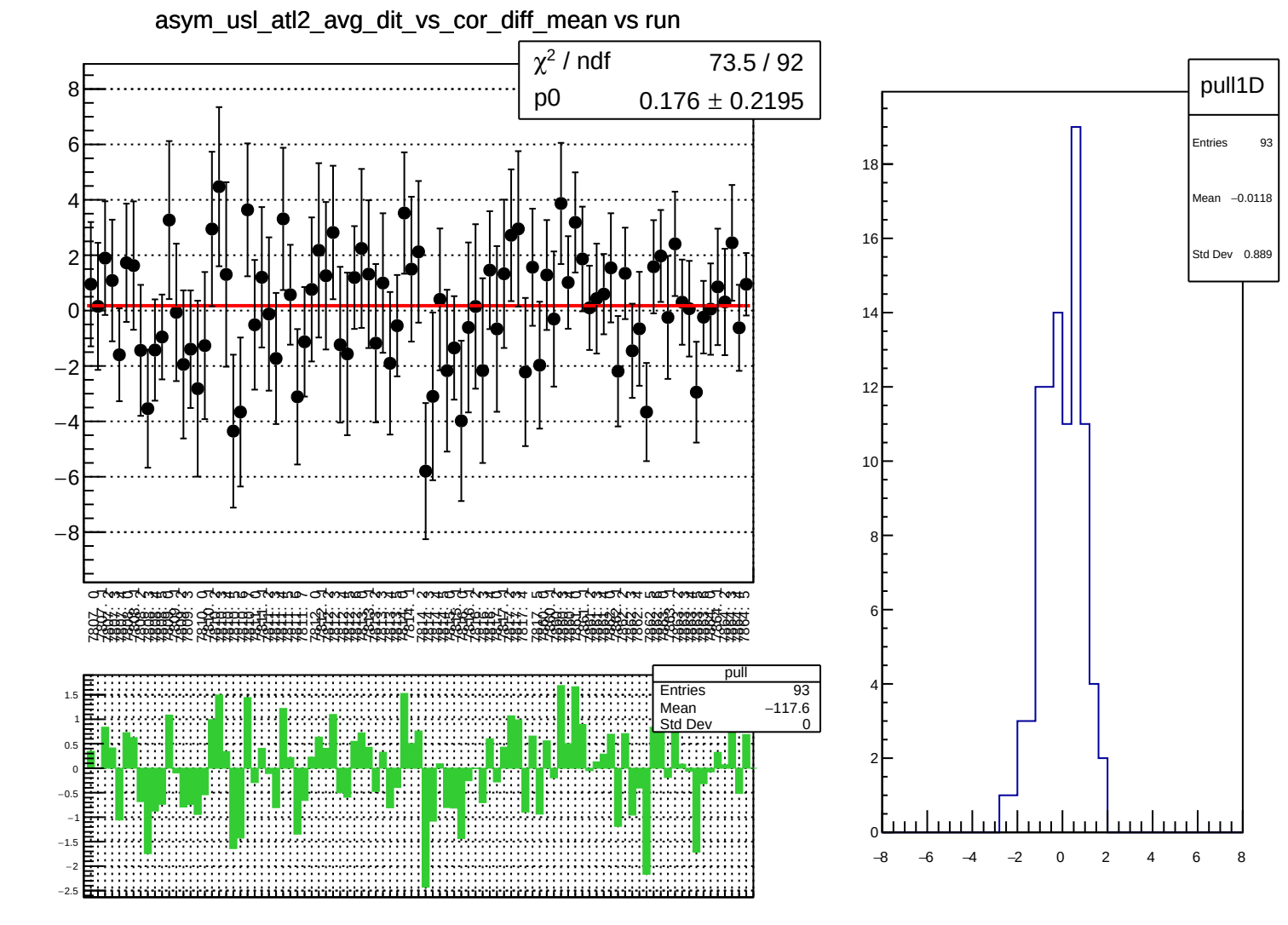

asym_usl_atl2_avg_mean vs run
χ² / ndf 86.62 / 92
p0 −8850 ± 5719
×10³
200
100
0
−100
−200
pull
Entries 93
Mean −11.59
Std Dev 0
3
2
1
0
−1
−2

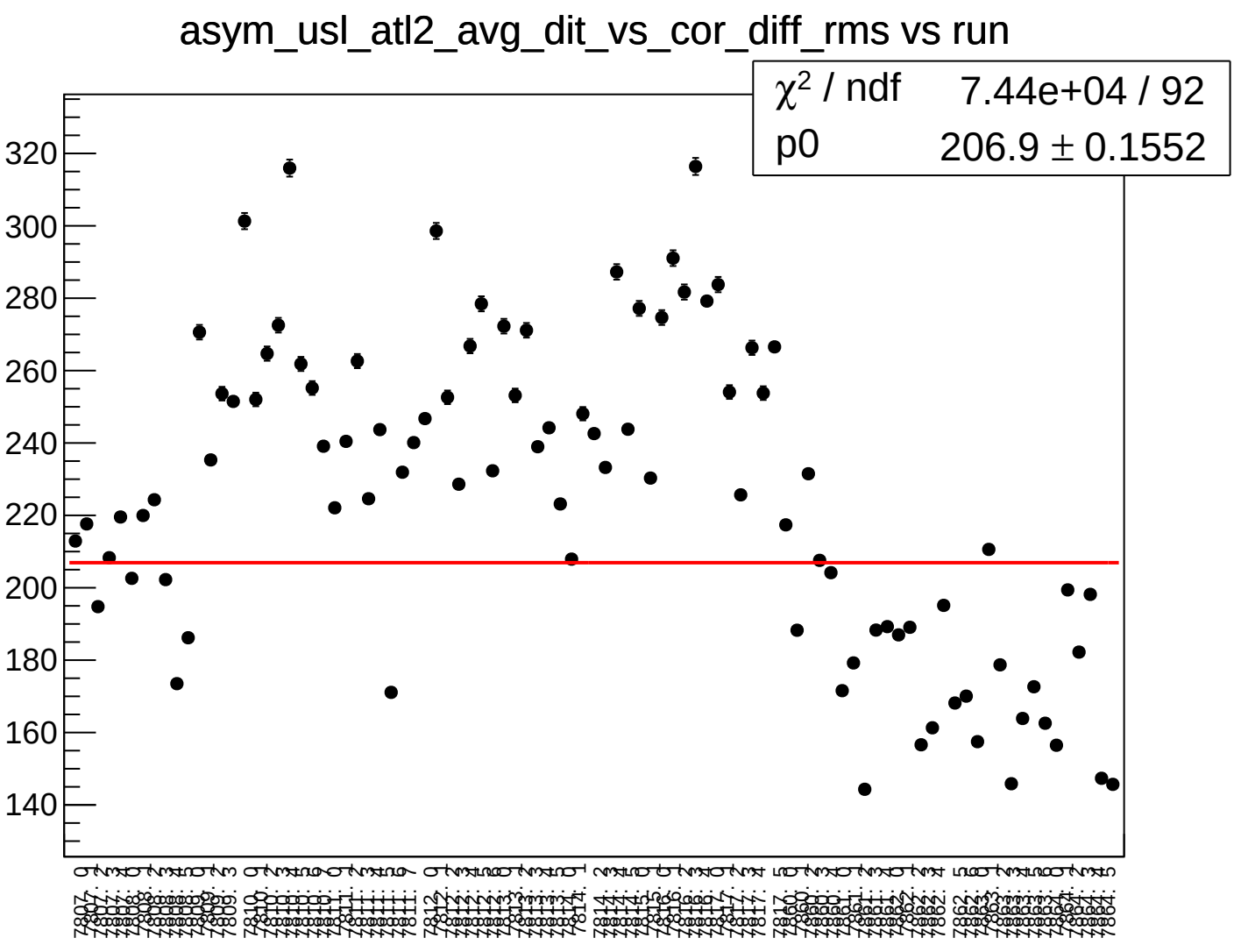

pull1D
Entries 93
Mean −0.01184
Std Dev 0.965
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

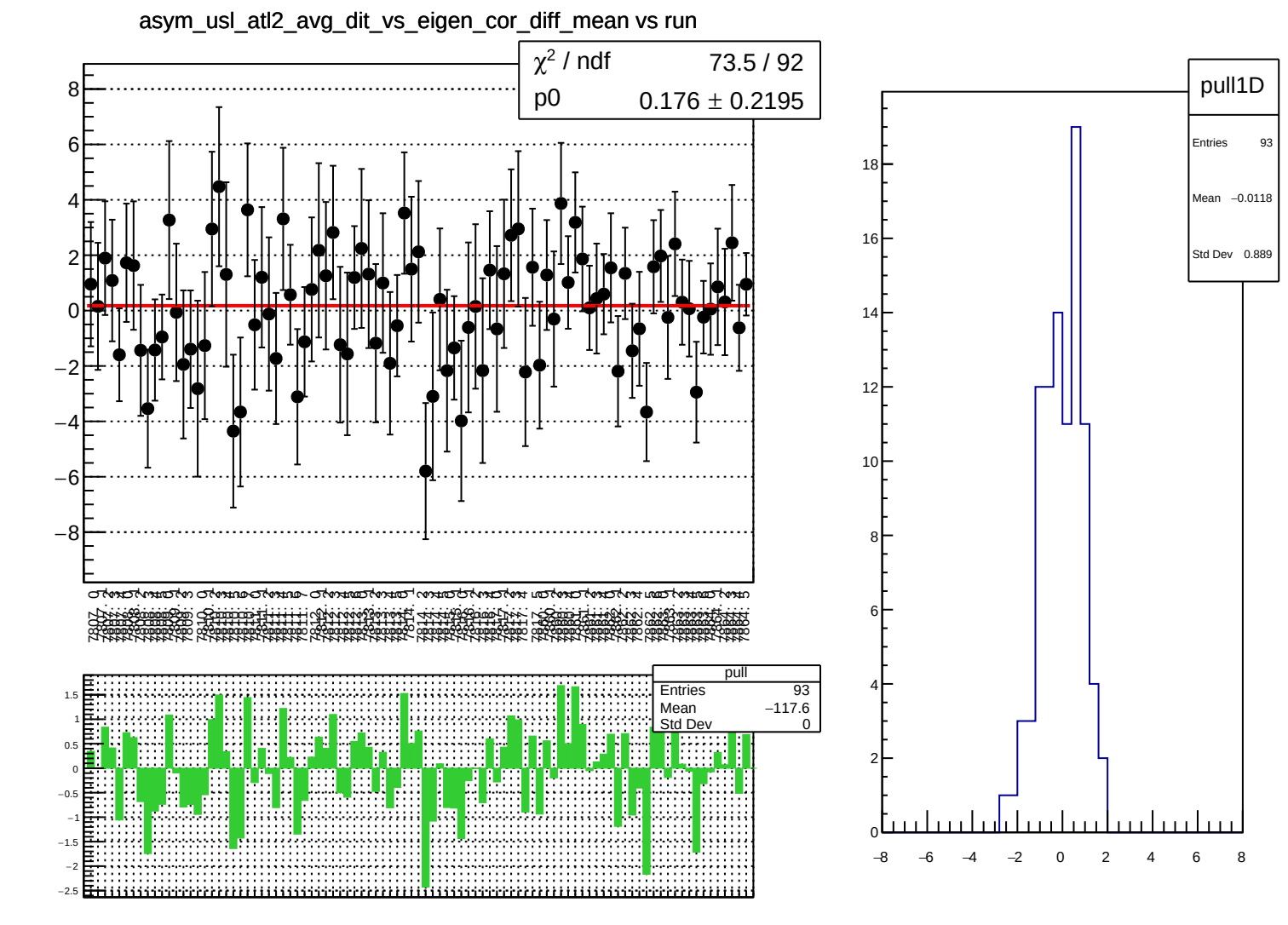

asym_usl_atl2_avg_rms vs run
χ² / ndf 2.213e+04 / 92
p0 5469 ± 4.044
7000
6500
6000
5500
5000
4500

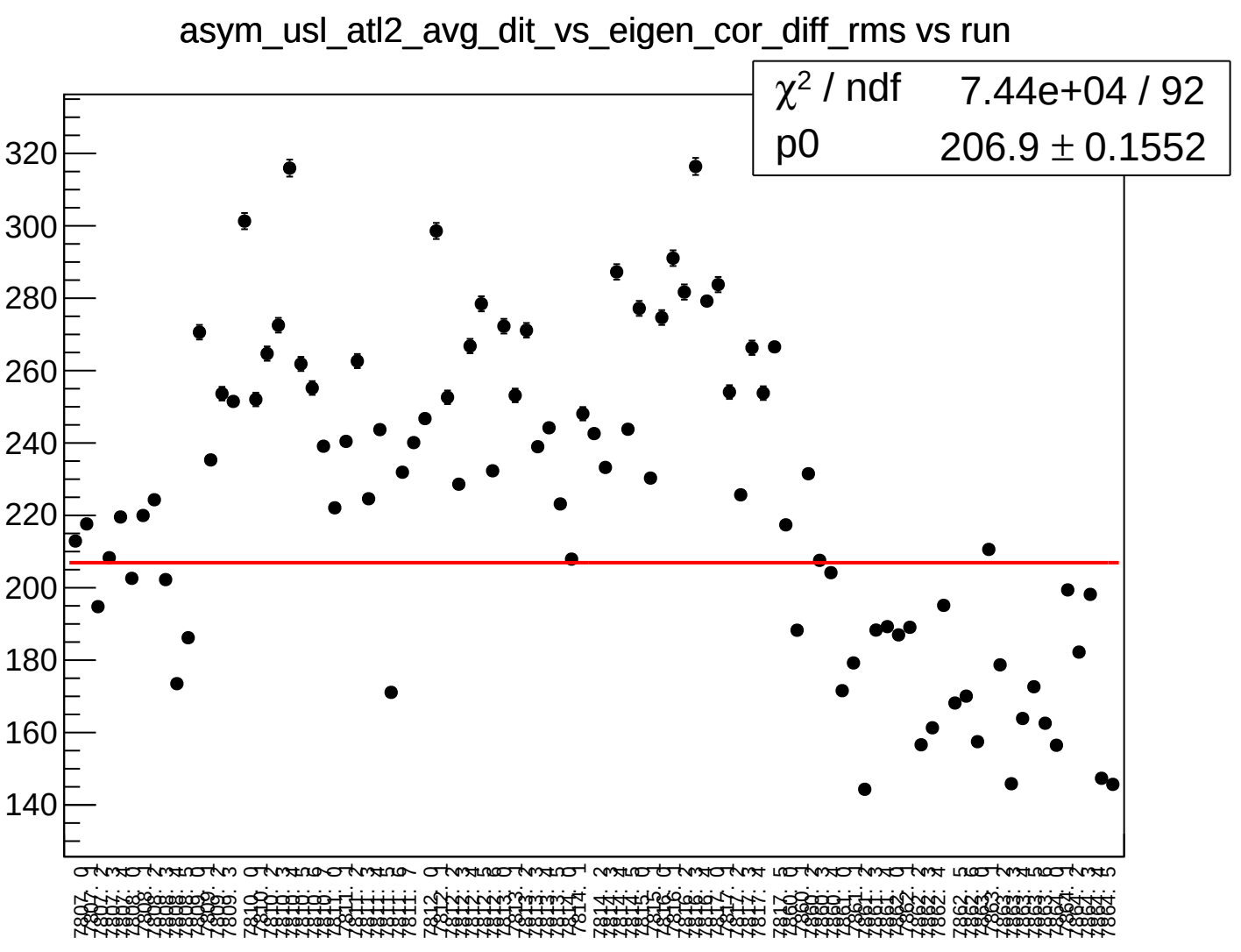

asym_usl_atl2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 94.11 / 92
p0 5.348e−13 ± 6.334e−13
pull
Entries 93
Mean 36.21
Std Dev 31.78
pull1D
Entries 93
Mean 0.1073
Std Dev 1

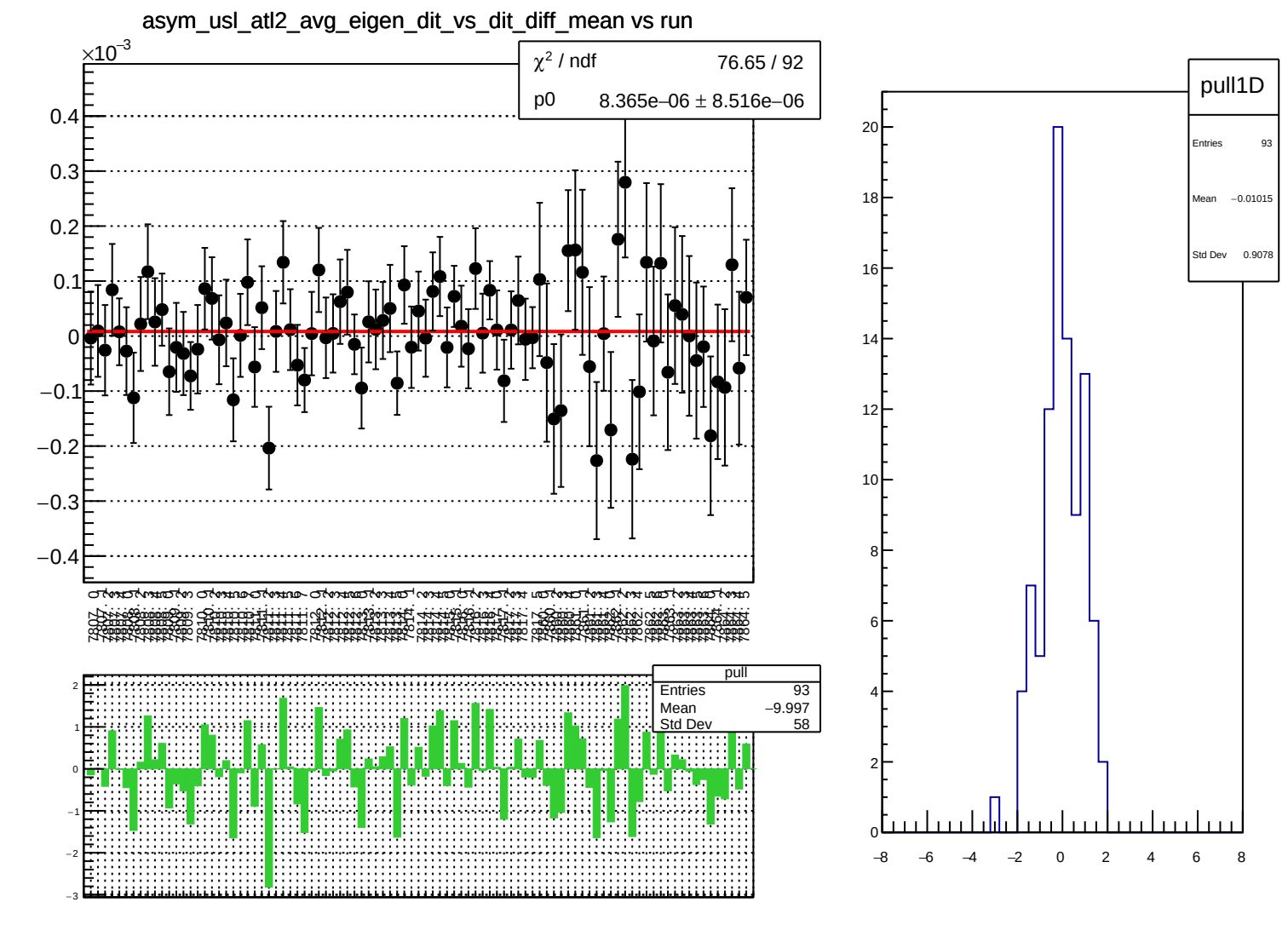

asym_usl_atl2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.226e+06 / 92
p0 3.542e−10 ± 4.479e−13
1.2
1
0.8
0.6
0.4
0.2
0

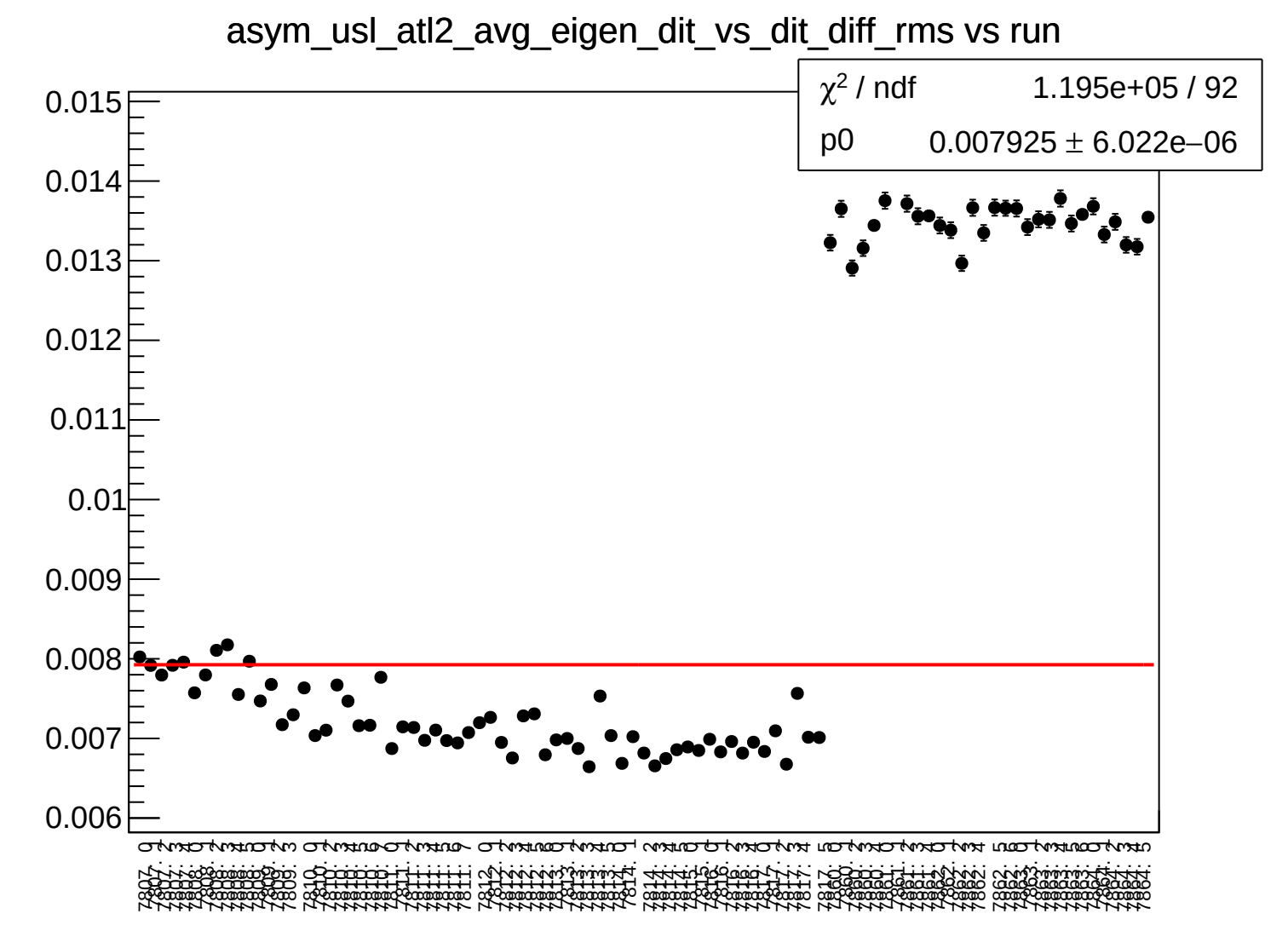

asym_usl_atl2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 73.5 / 92
p0 0.176 ± 0.2195
pull
Entries 93
Mean −117.6
Std Dev 0
pull1D
Entries 93
Mean −0.0118
Std Dev 0.889

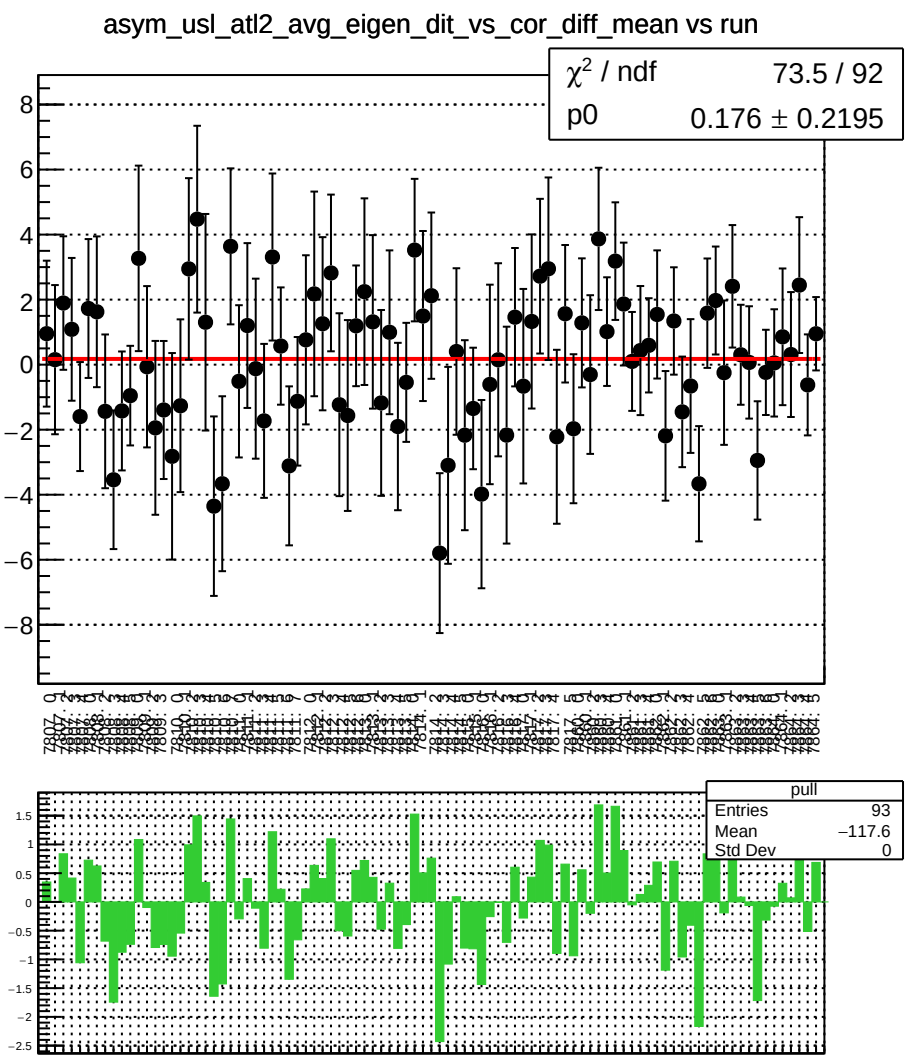

asym_usl_atl2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.44e+04 / 92
p0 206.9 ± 0.1552
320
300
280
260
240
220
200
180
160
140

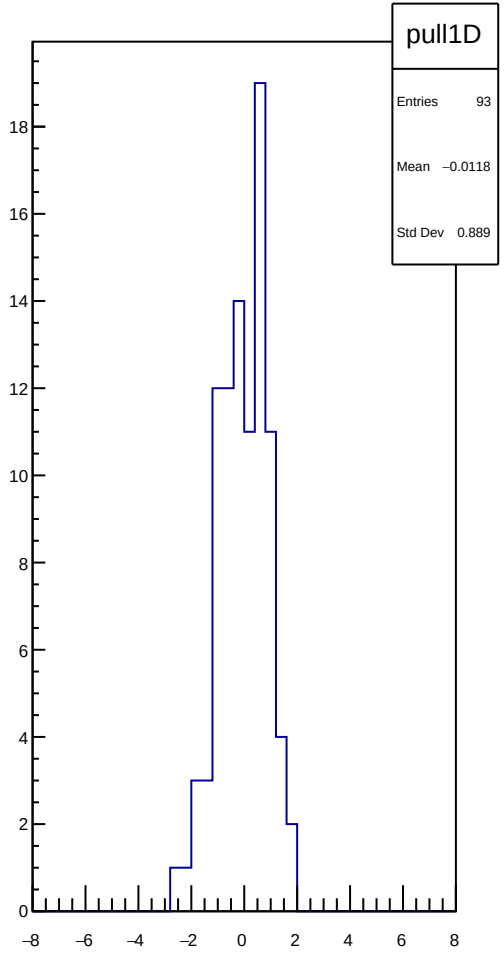

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.5 / 92
p0 0.176 ± 0.2195
pull
Entries 93
Mean −117.6
Std Dev 0
pull1D
Entries 93
Mean −0.0118
Std Dev 0.889

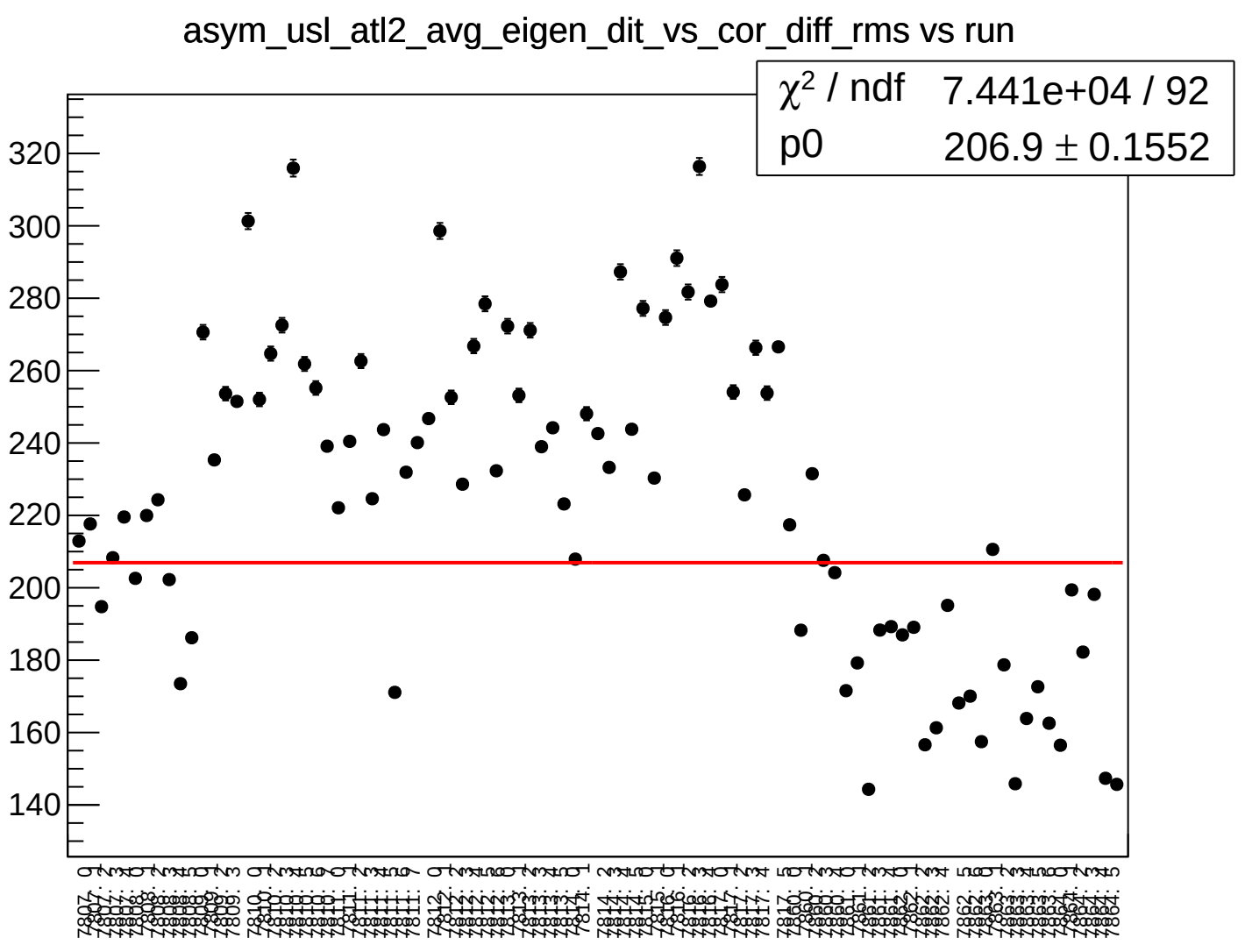

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.44e+04 / 92
p0 206.9 ± 0.1552
320
300
280
260
240
220
200
180
160
140

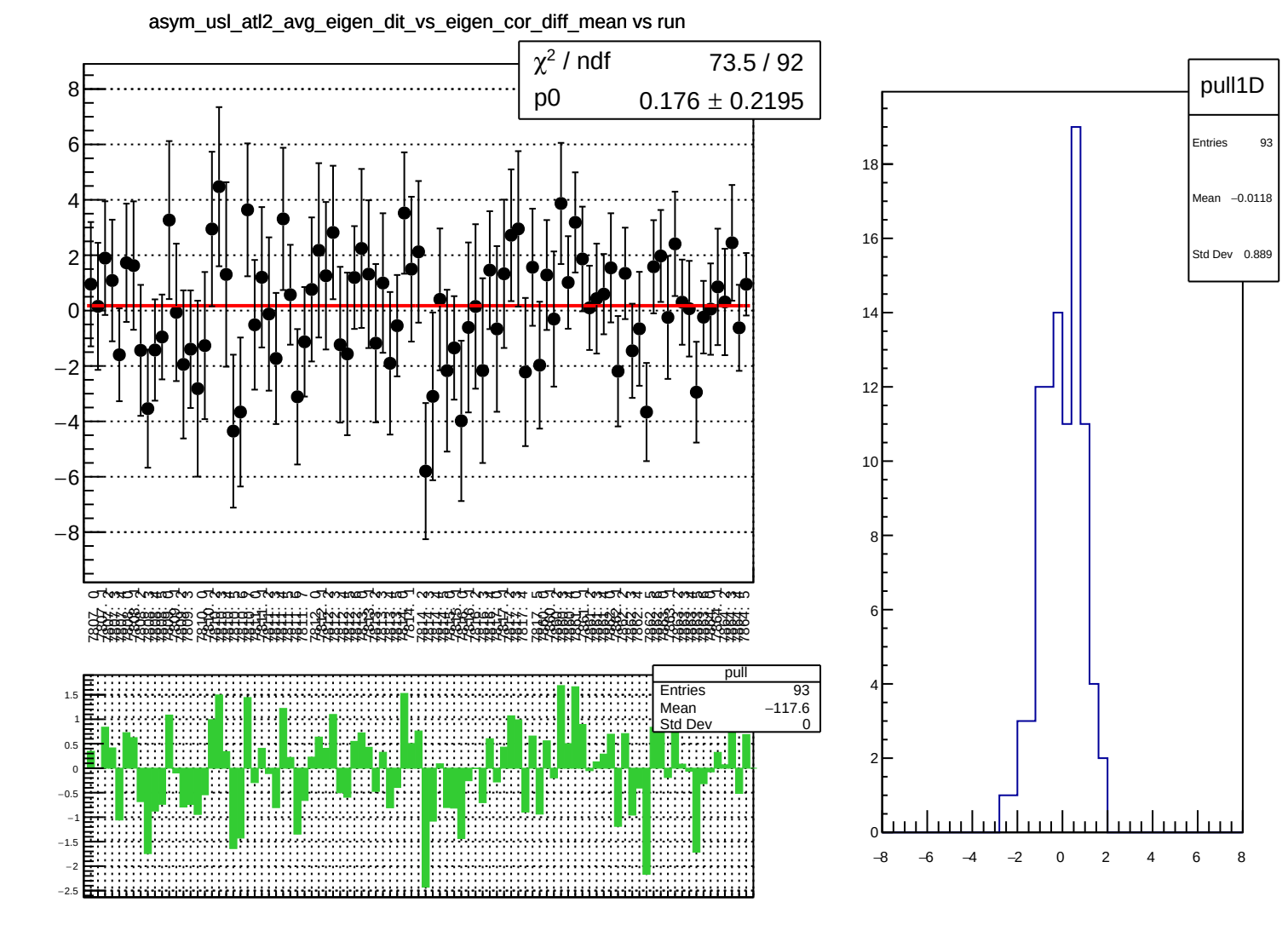

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 76.65 / 92
p0 8.365e−06 ± 8.516e−06
pull
Entries 93
Mean −9.997
Std Dev 58
pull1D
Entries 93
Mean −0.01015
Std Dev 0.9078

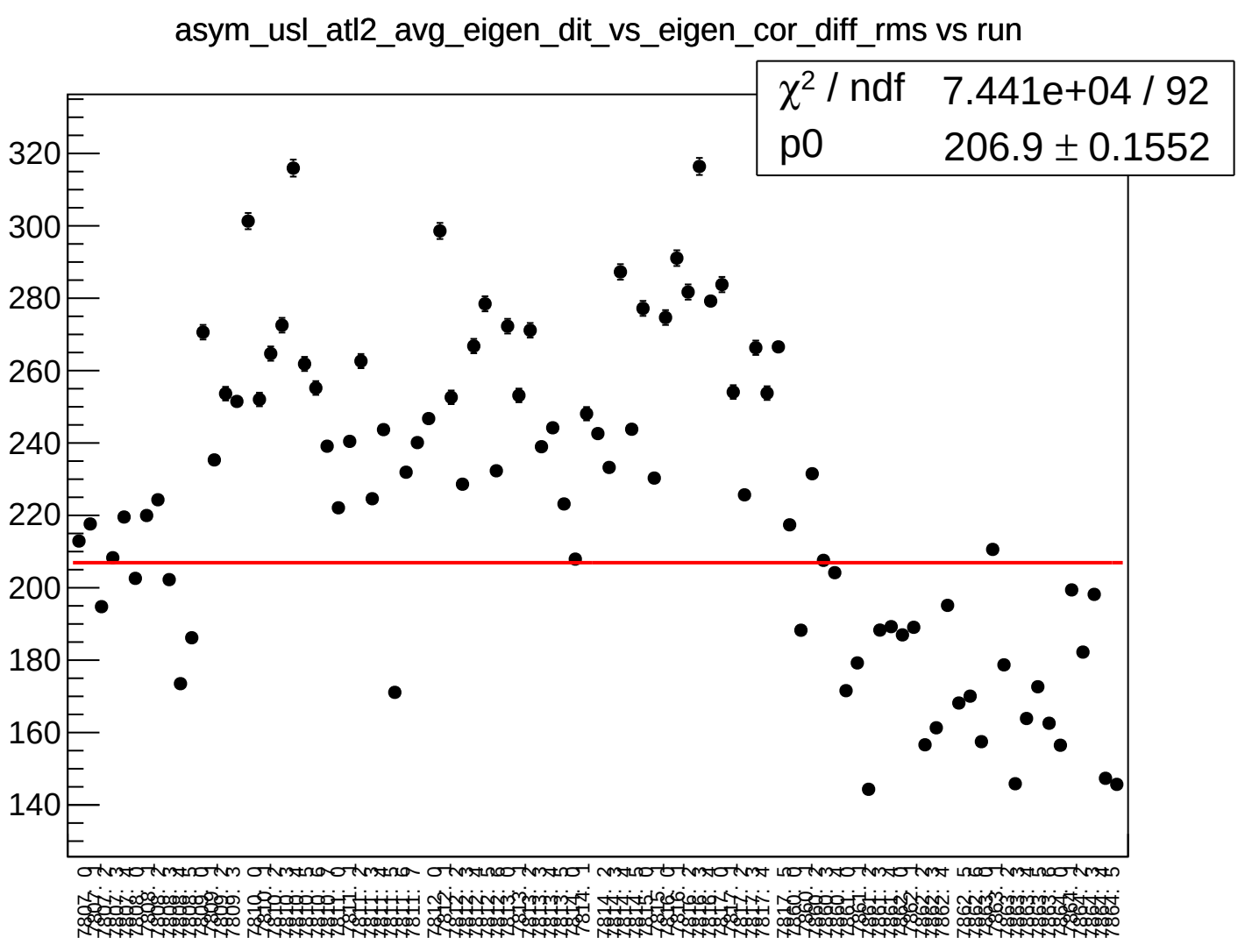

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.195e+05 / 92
p0 0.007925 ± 6.022e−06
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006

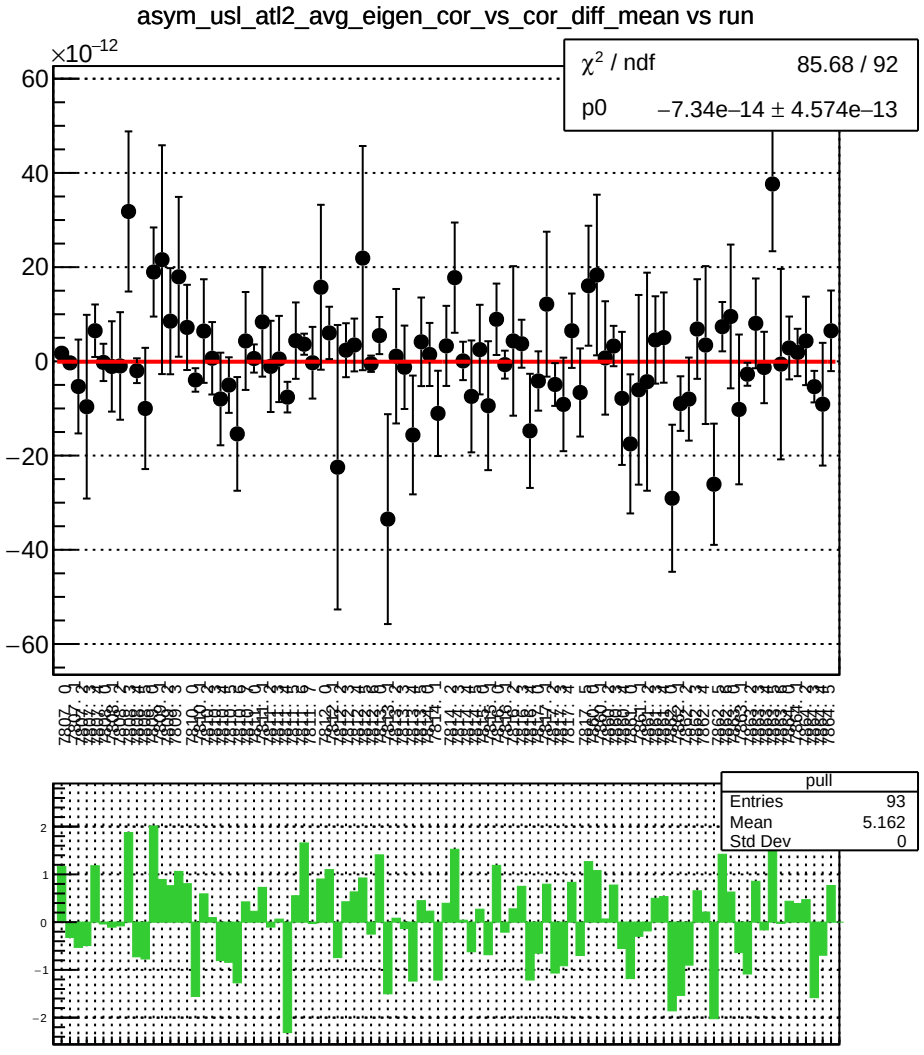

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 73.5 / 92
p0 0.176 ± 0.2195
pull
Entries 93
Mean −117.6
Std Dev 0

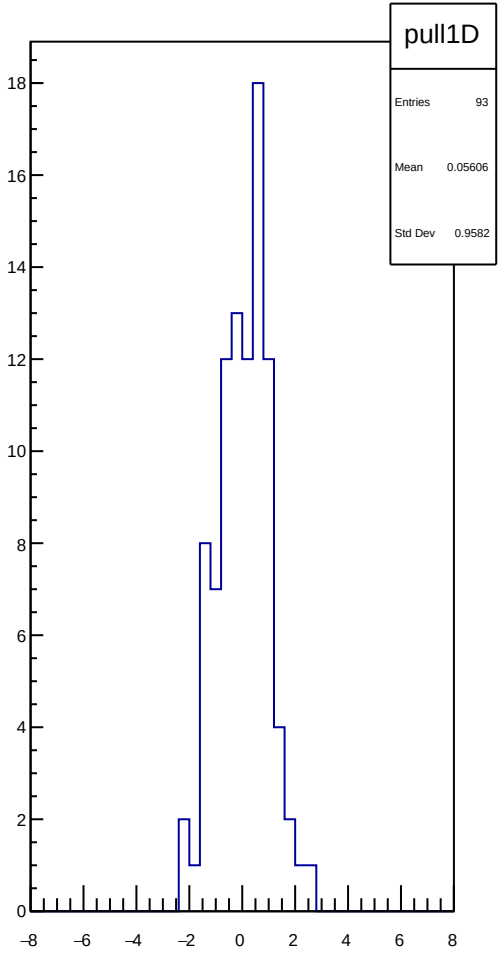

pull1D
Entries 93
Mean −0.0118
Std Dev 0.889

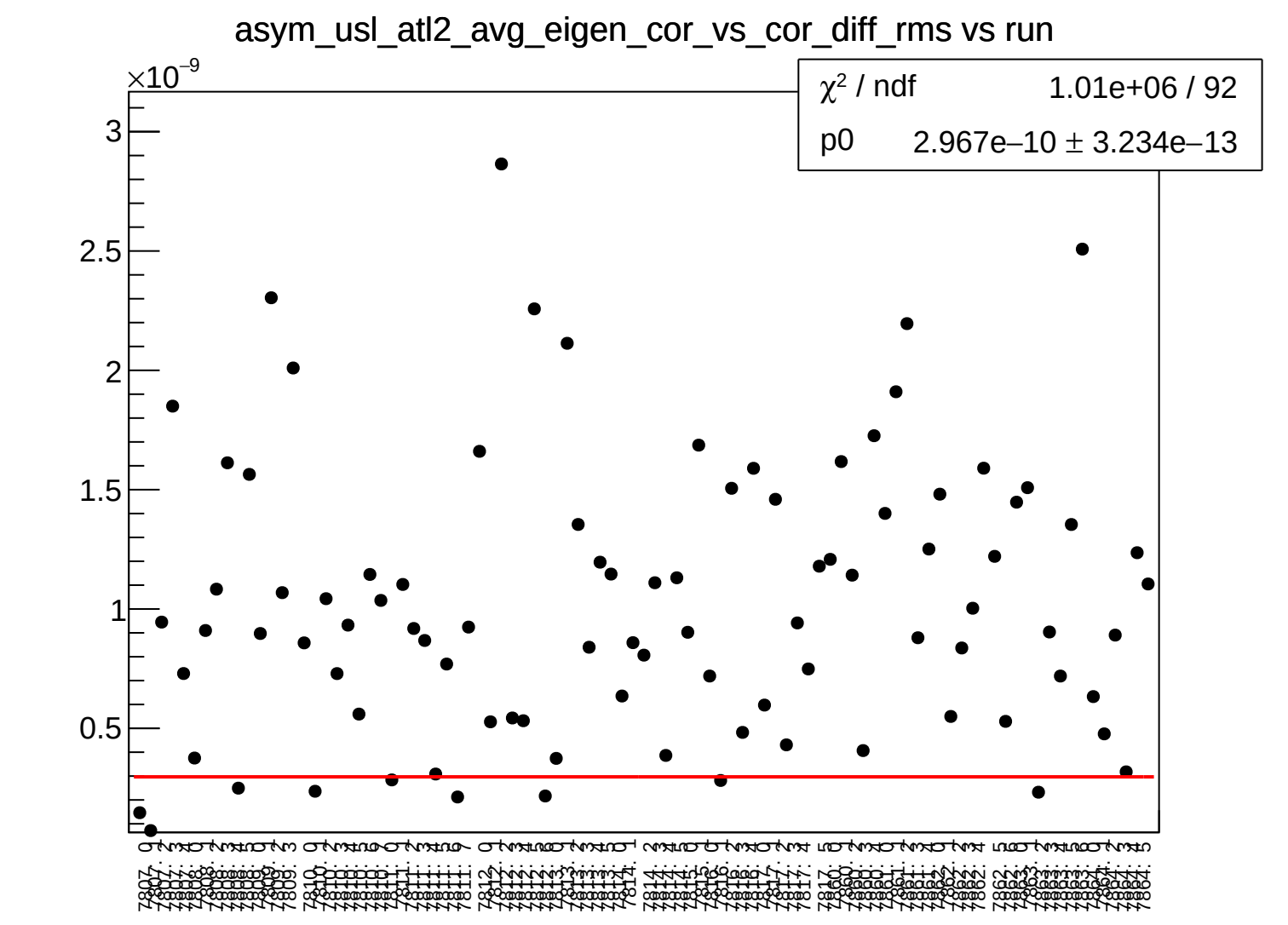

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.441e+04 / 92
p0 206.9 ± 0.1552
320
300
280
260
240
220
200
180
160
140

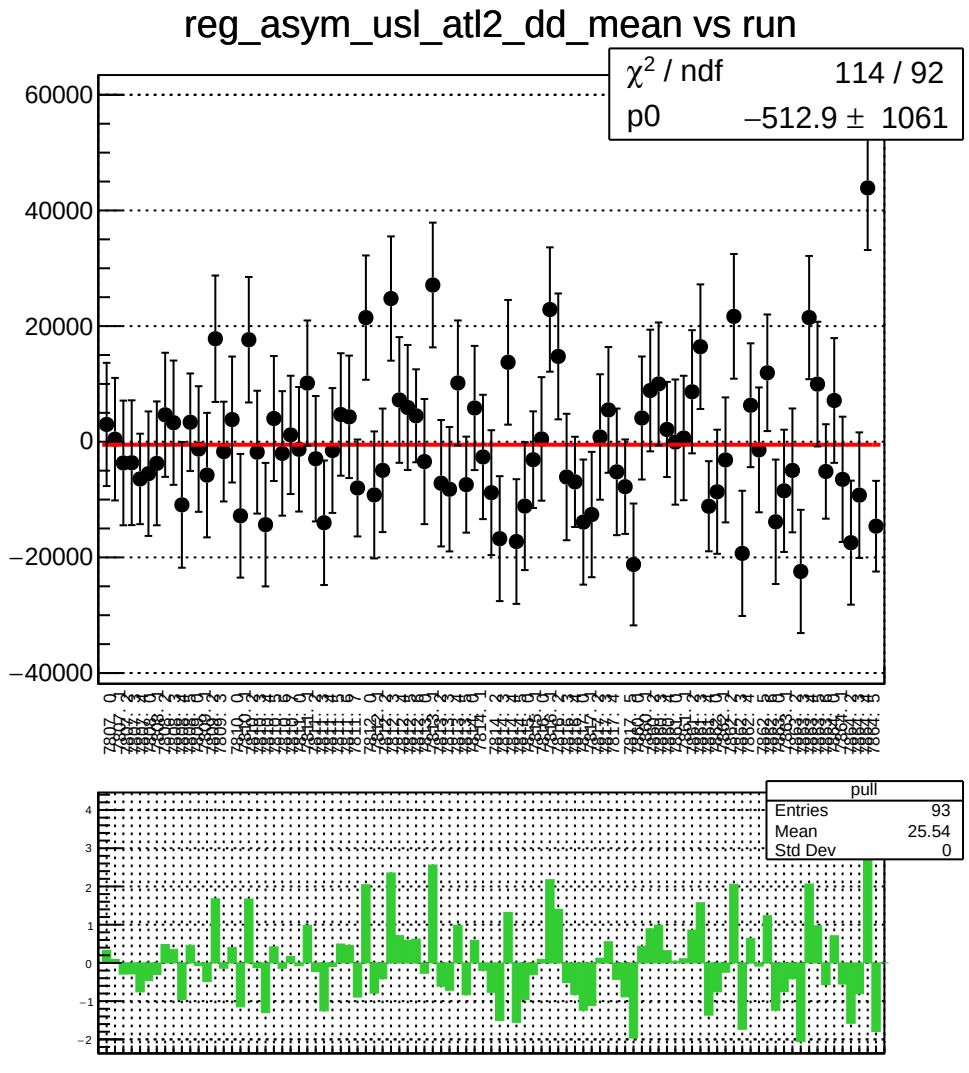

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.5 / 92
p0 0.176 ± 0.2195
pull
Entries 93
Mean −117.6
Std Dev 0
pull1D
Entries 93
Mean −0.0118
Std Dev 0.889

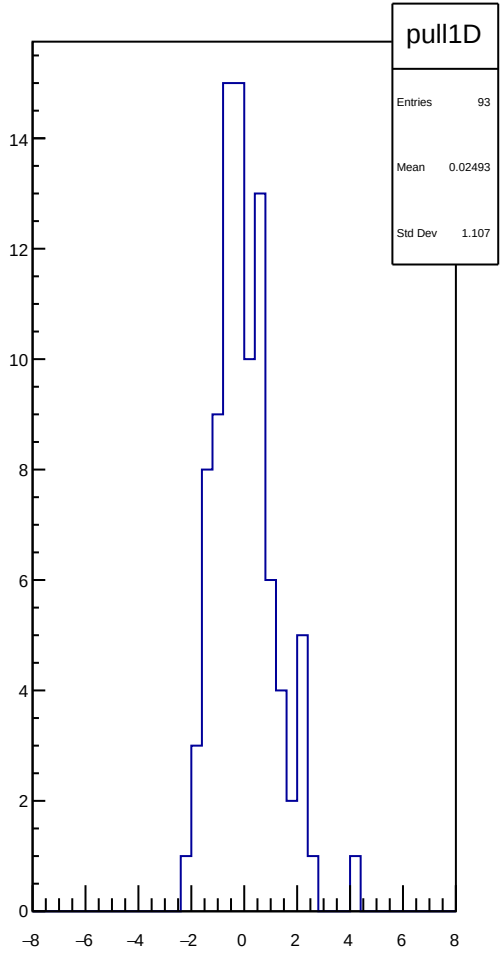

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.441e+04 / 92
p0 206.9 ± 0.1552
320
300
280
260
240
220
200
180
160
140

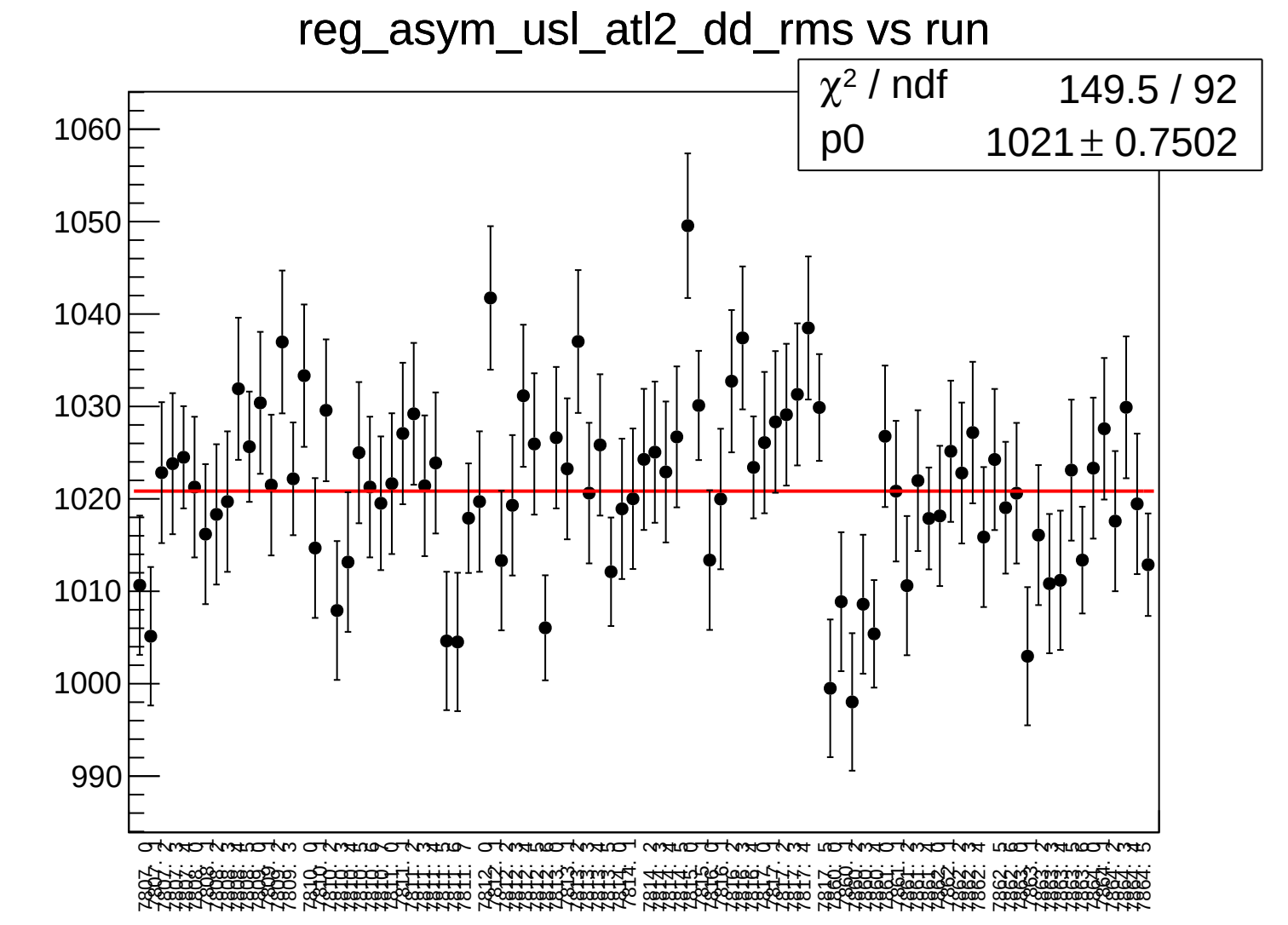

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.68 / 92
p0 −7.34e−14 ± 4.574e−13
pull
Entries 93
Mean 5.162
Std Dev 0

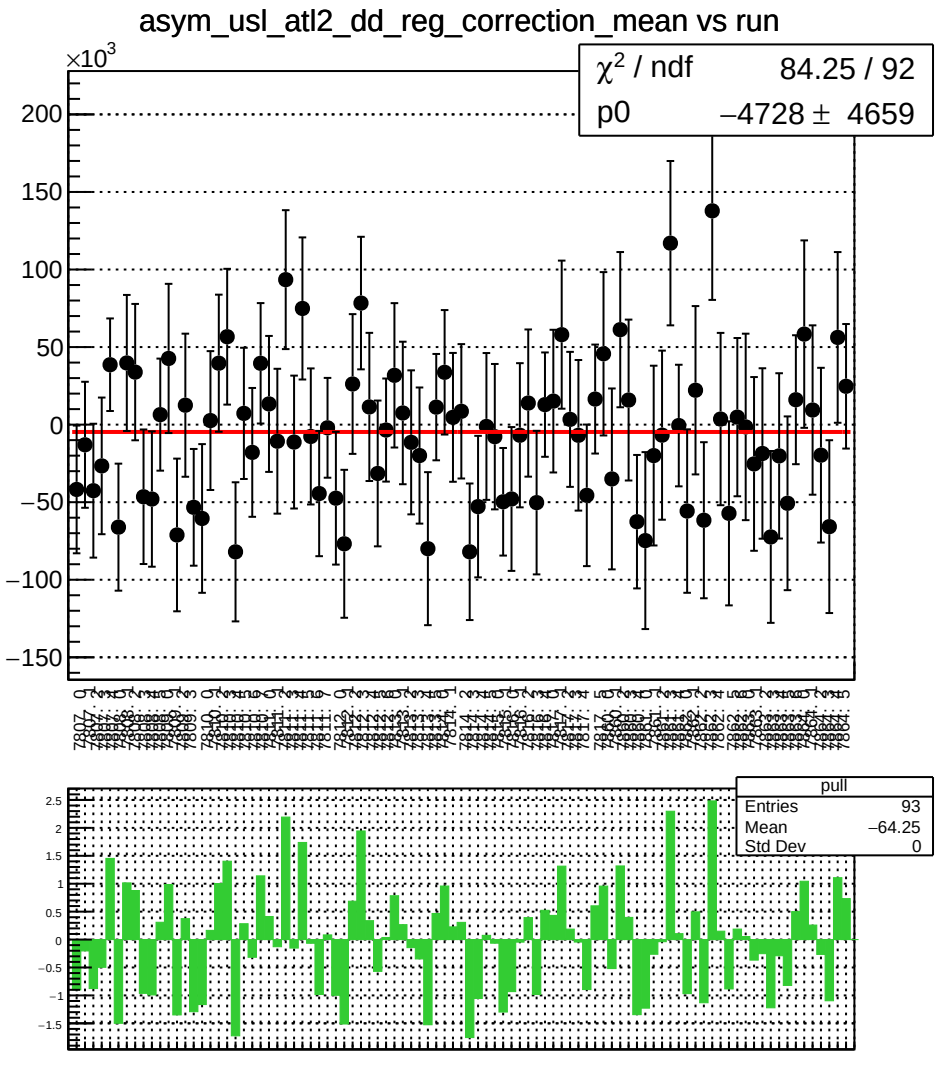

pull1D
Entries 93
Mean 0.05606
Std Dev 0.9582

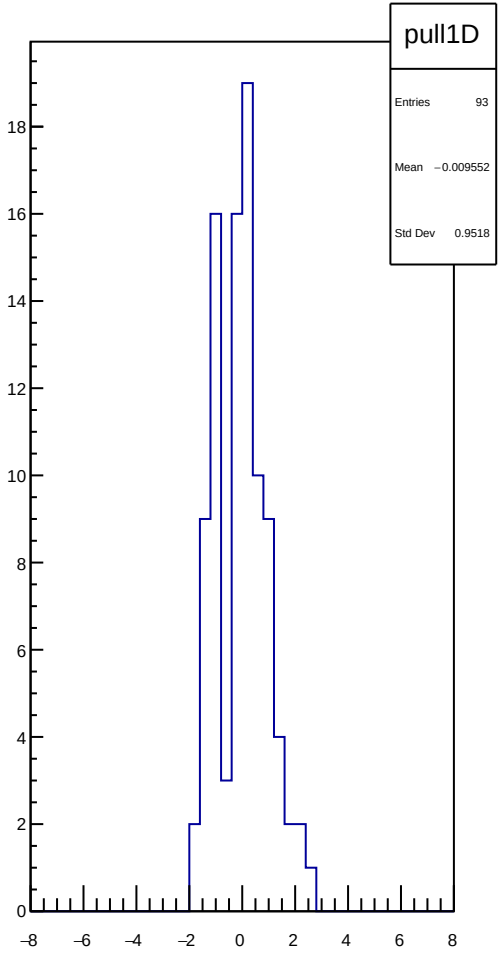

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.01e+06 / 92
p0 2.967e−10 ± 3.234e−13
3
2.5
2
1.5
1
0.5

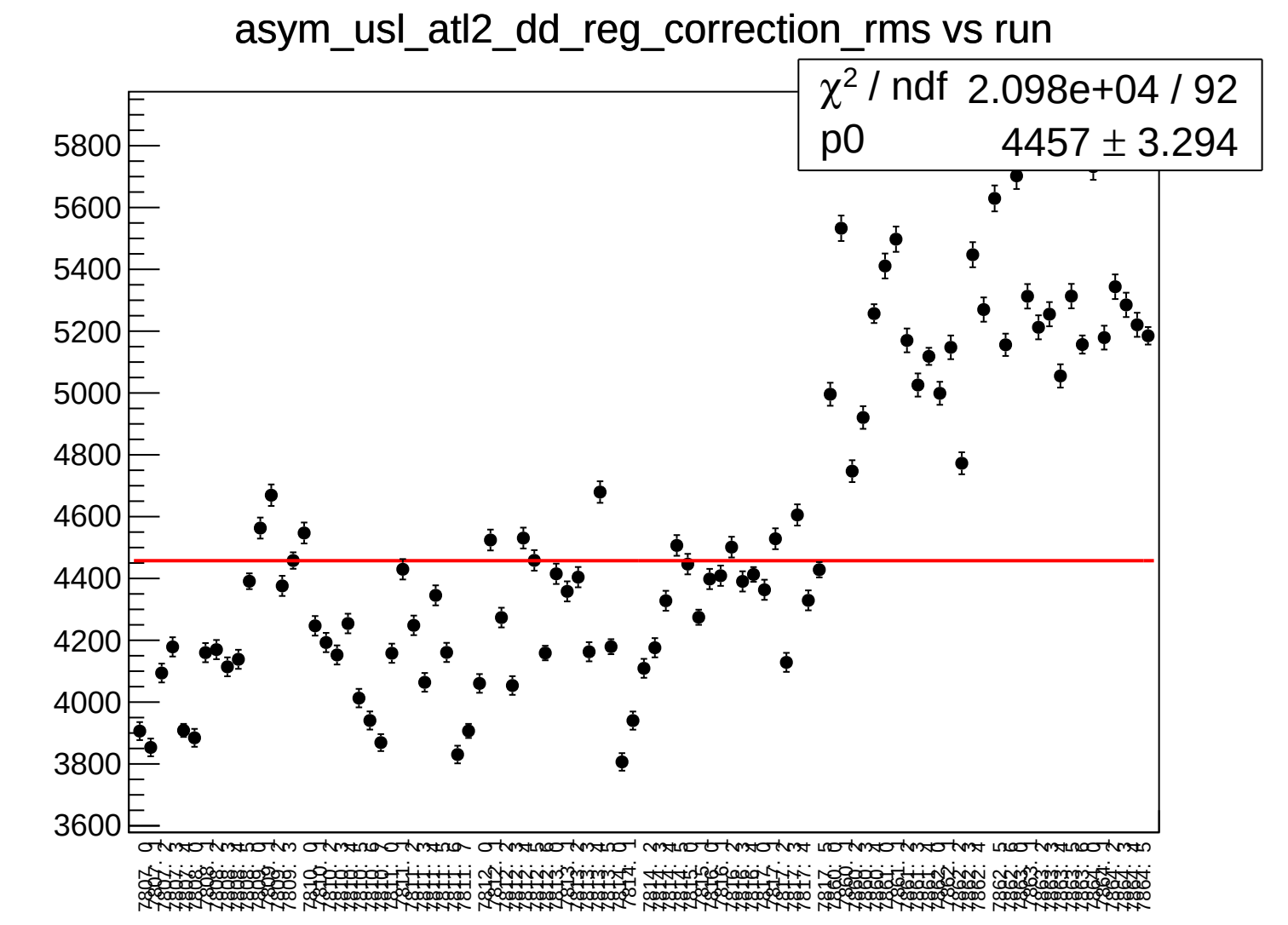

reg_asym_usl_atl2_dd_mean vs run
χ² / ndf 114 / 92
p0 −512.9 ± 1061
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 25.54
Std Dev 0
4
3
2
1
0
−1
−2

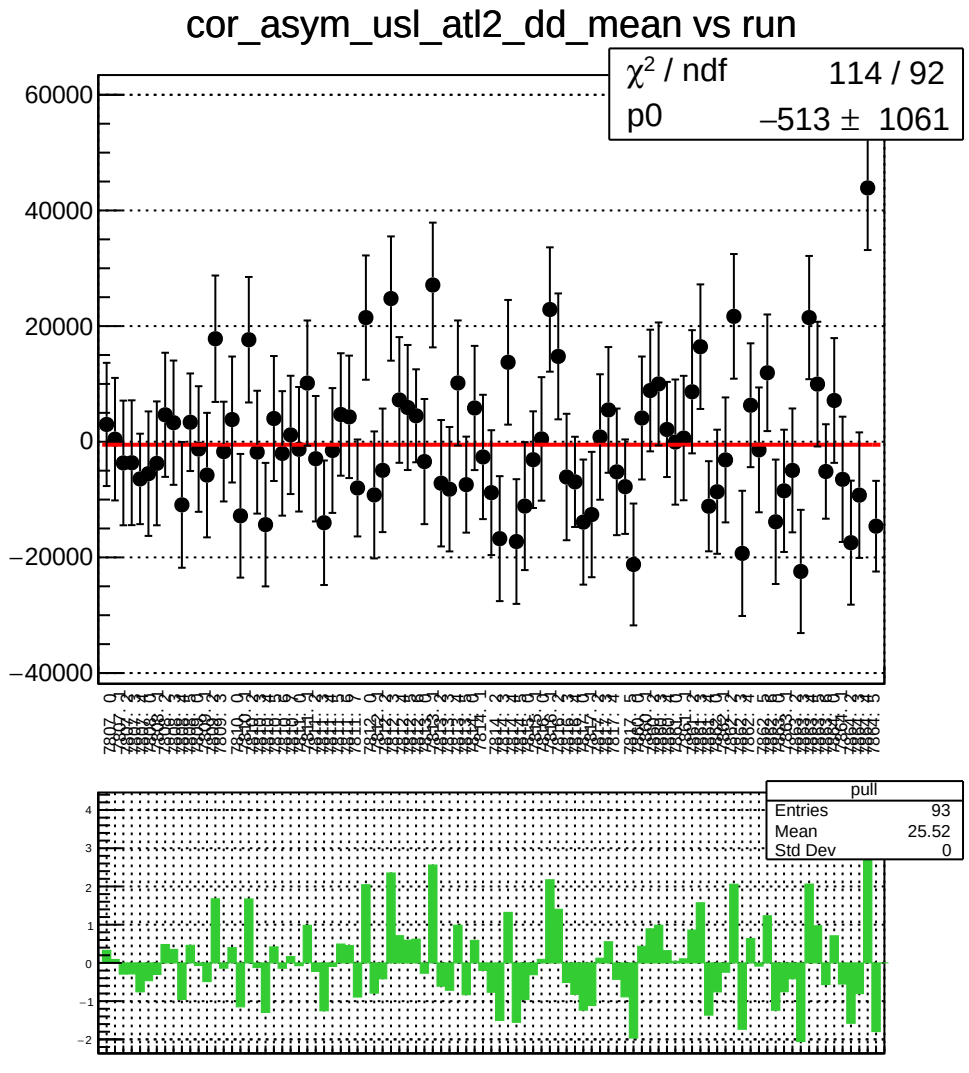

pull1D
Entries 93
Mean 0.02493
Std Dev 1.107
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

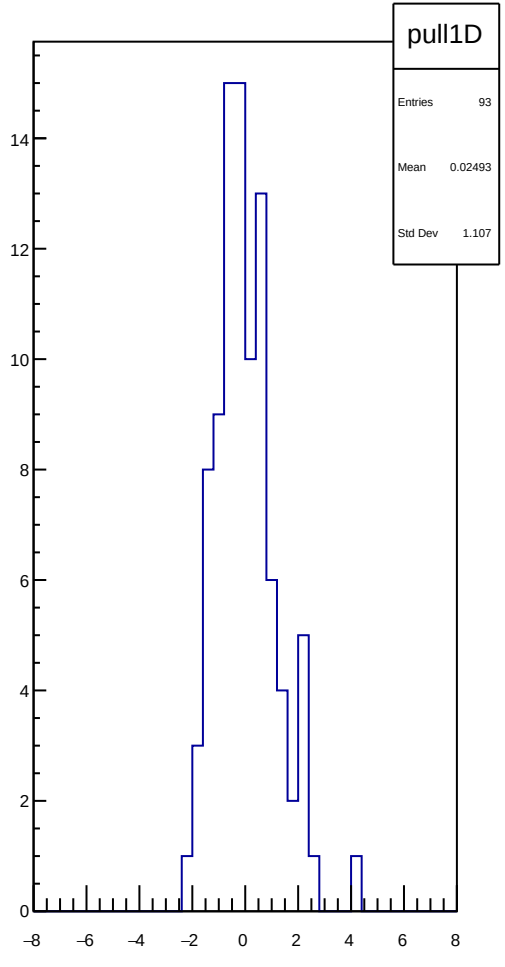

reg_asym_usl_atl2_dd_rms vs run
χ² / ndf 149.5 / 92
p0 1021 ± 0.7502
1060
1050
1040
1030
1020
1010
1000
990

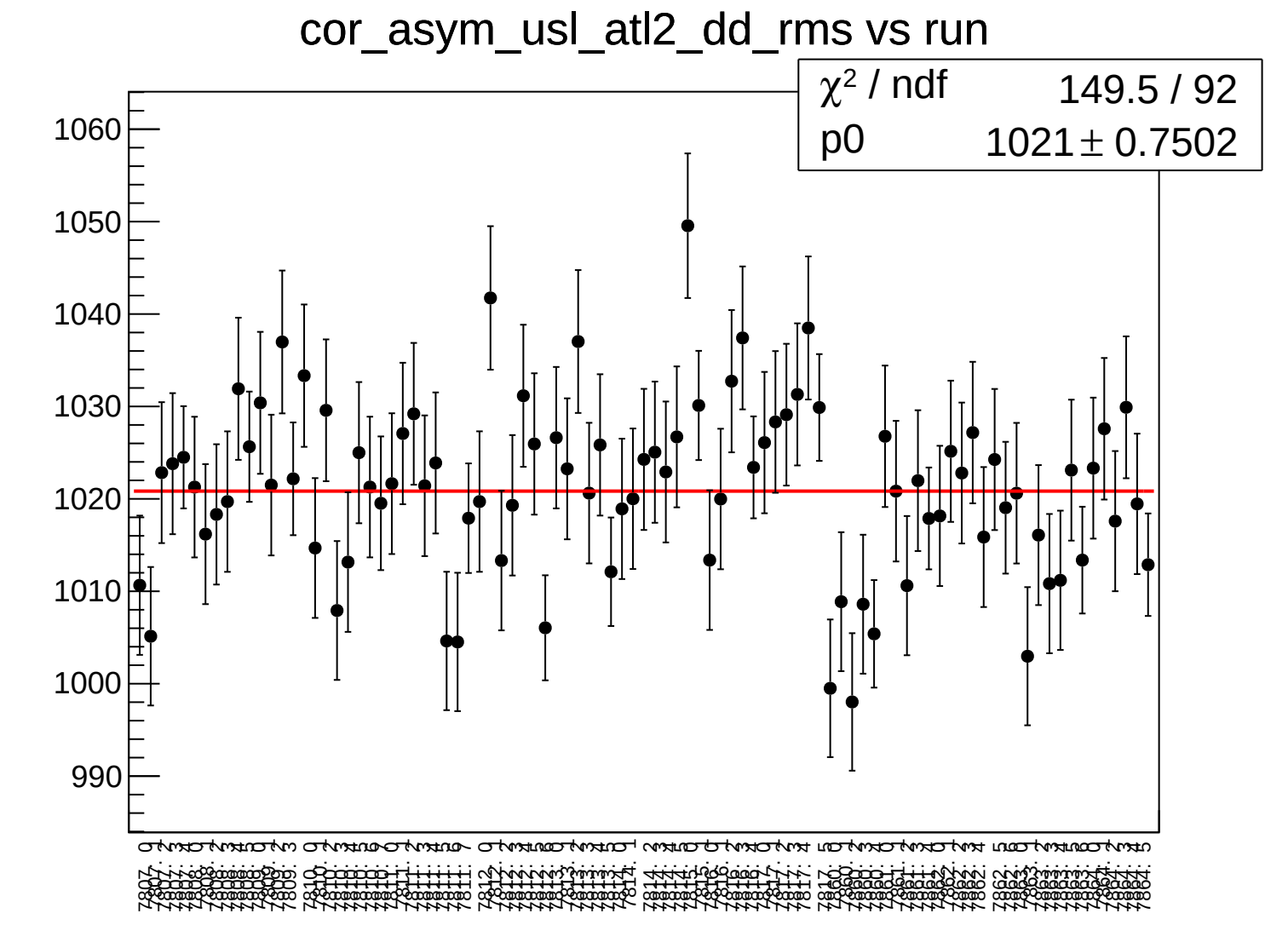

asym_usl_atl2_dd_reg_correction_mean vs run
χ² / ndf 84.25 / 92
p0 −4728 ± 4659
pull
Entries 93
Mean −64.25
Std Dev 0

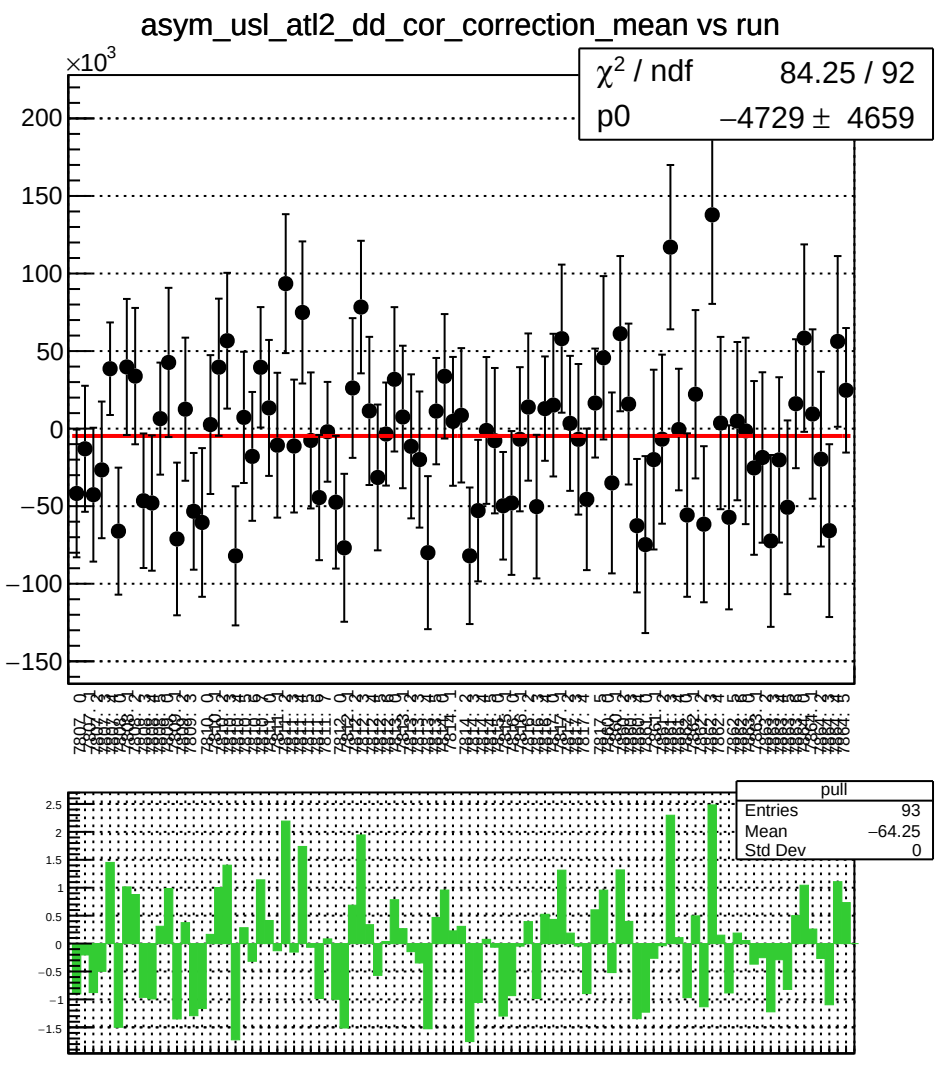

pull1D
Entries 93
Mean −0.009552
Std Dev 0.9518

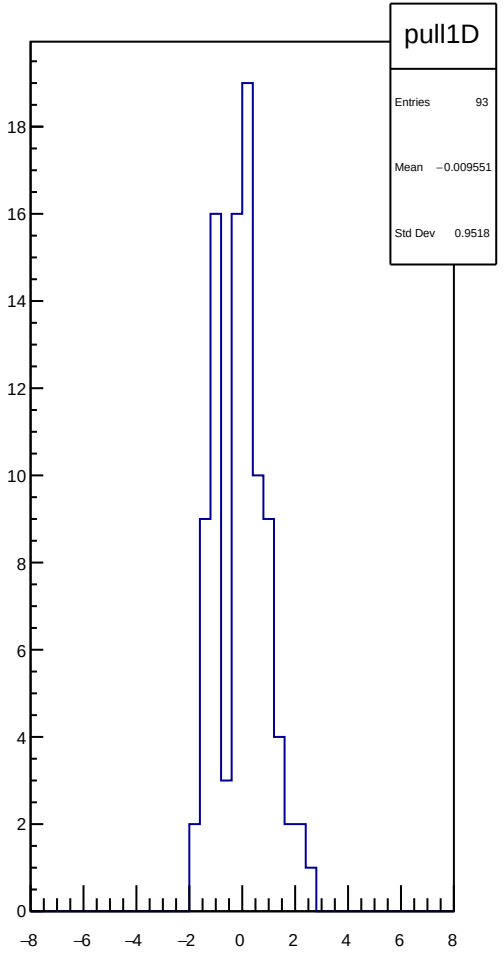

asym_usl_atl2_dd_reg_correction_rms vs run
χ² / ndf 2.098e+04 / 92
p0 4457 ± 3.294
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600

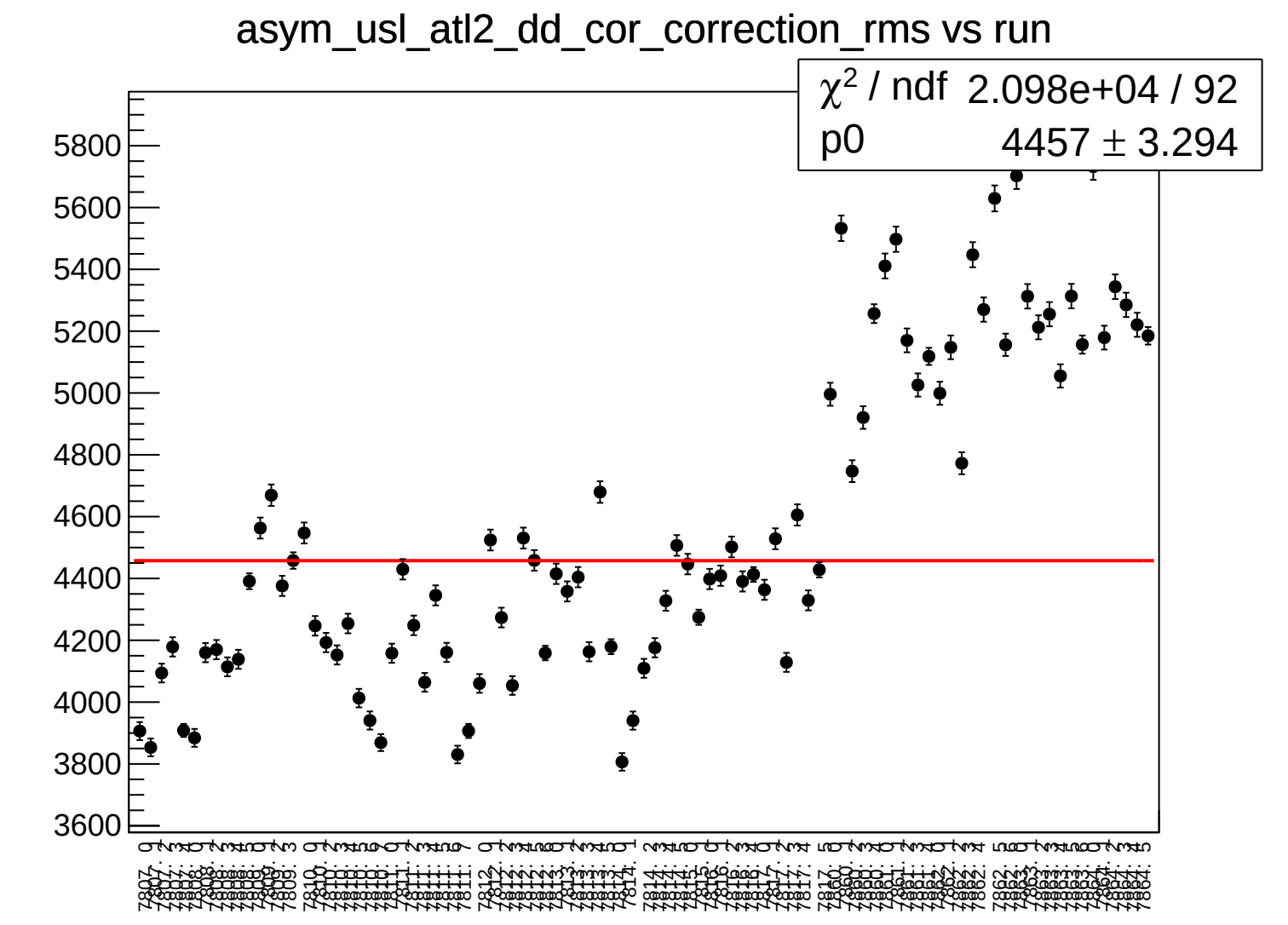

cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 114 / 92
p0 −513 ± 1061
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 25.52
Std Dev 0
4
3
2
1
0
−1
−2

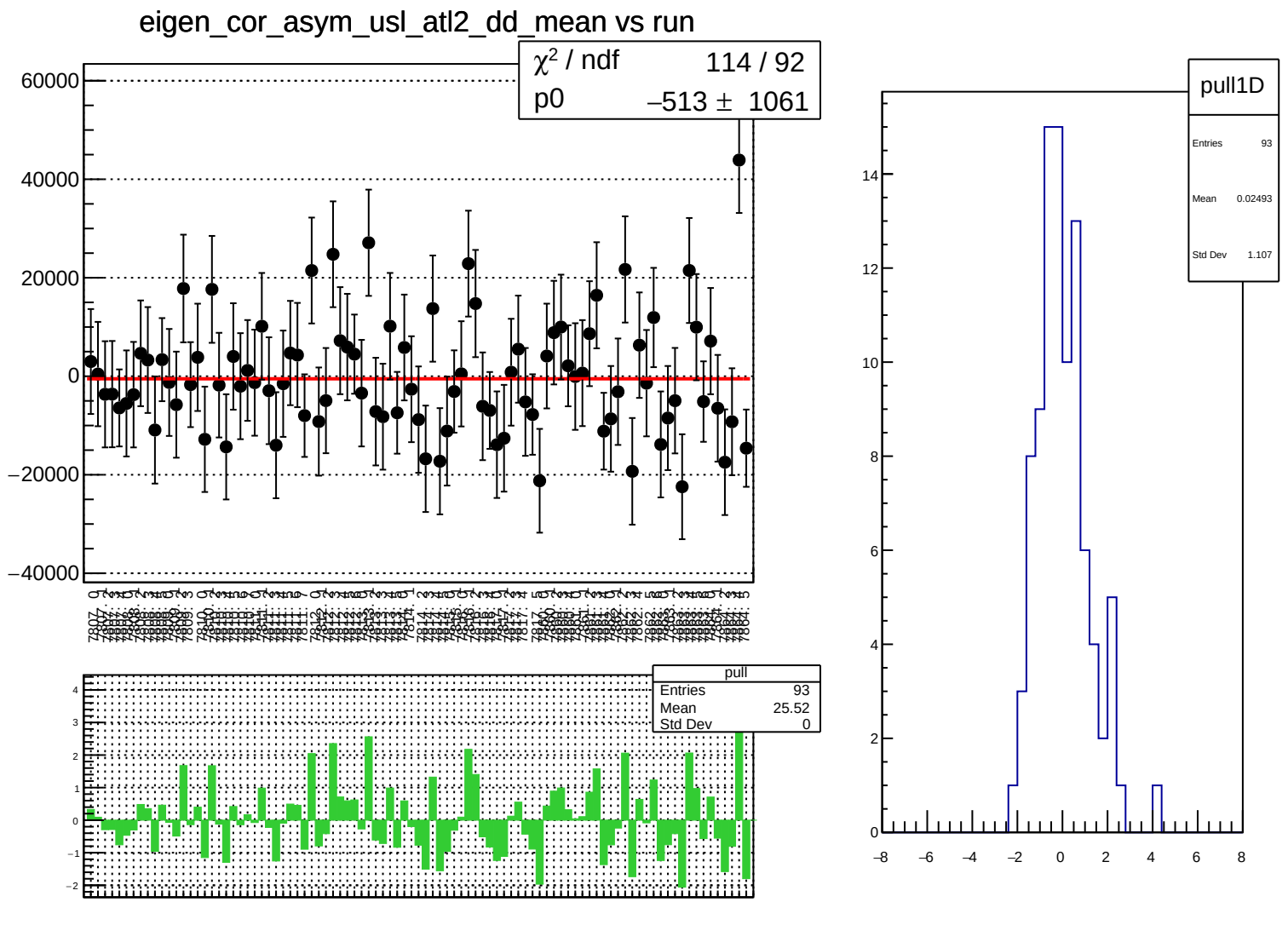

pull1D
Entries 93
Mean 0.02493
Std Dev 1.107
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

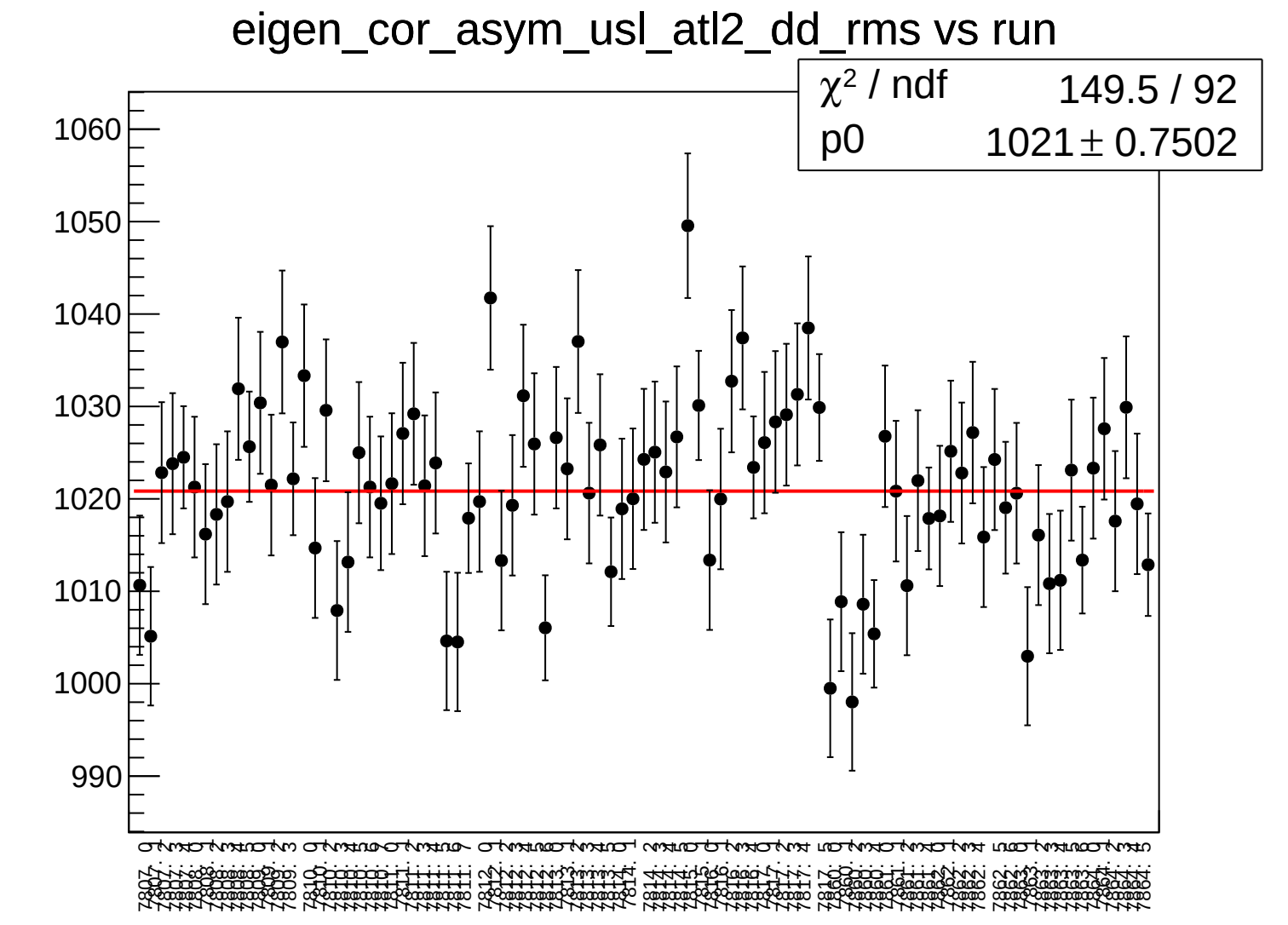

cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 149.5 / 92
p0 1021 ± 0.7502
1060
1050
1040
1030
1020
1010
1000
990

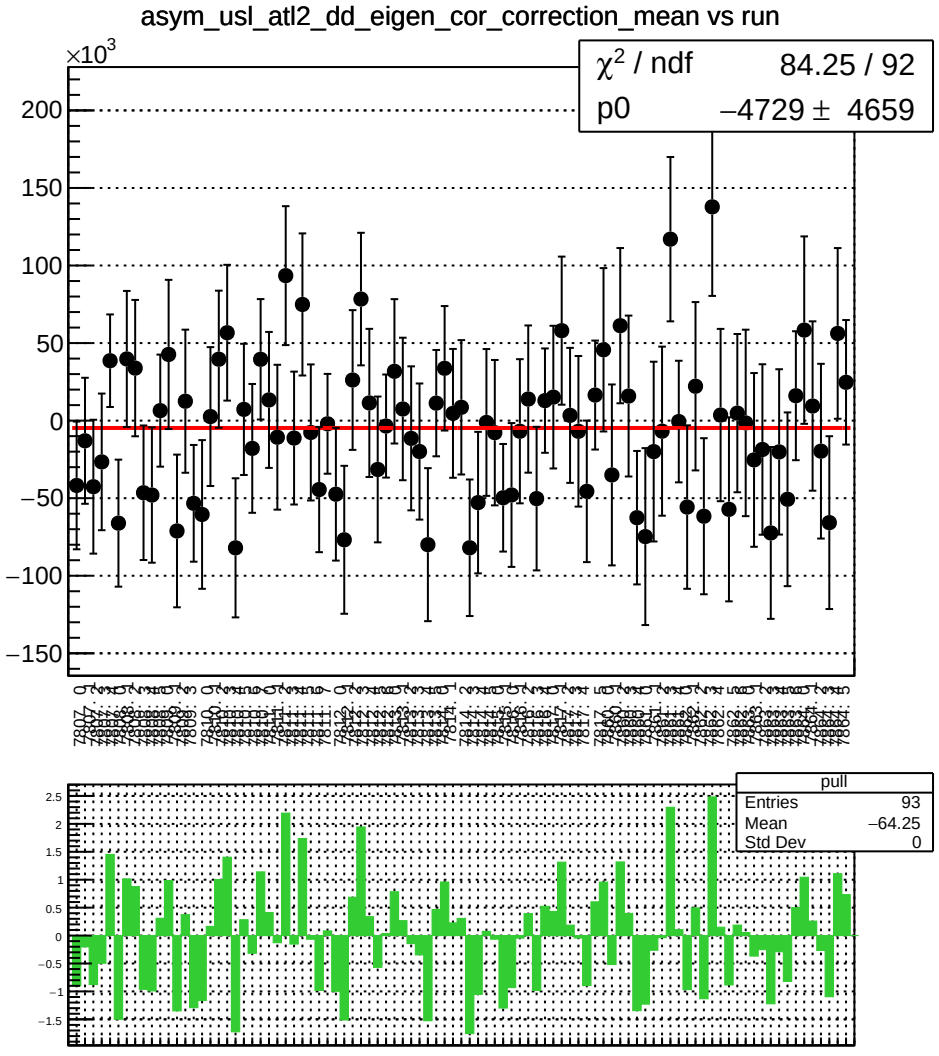

asym_usl_atl2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 84.25 / 92
p0 −4729 ± 4659
pull
Entries 93
Mean −64.25
Std Dev 0

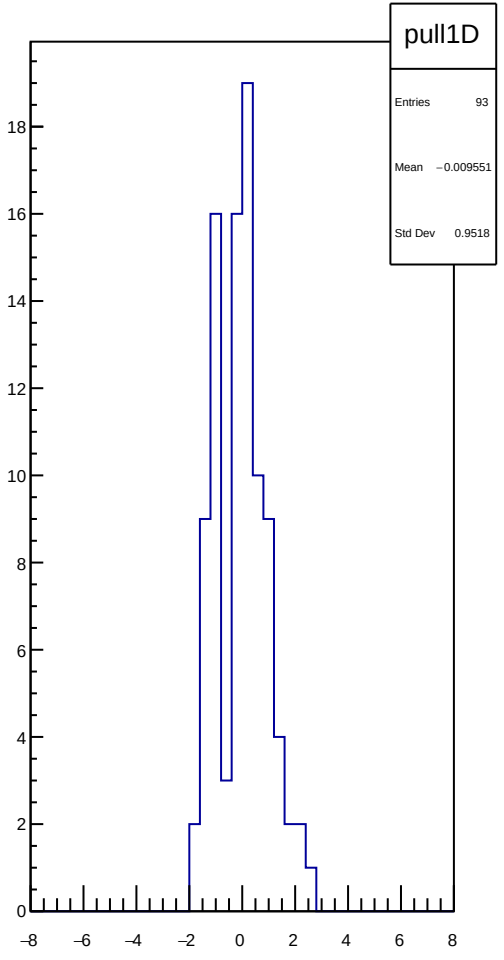

pull1D
Entries 93
Mean −0.009551
Std Dev 0.9518

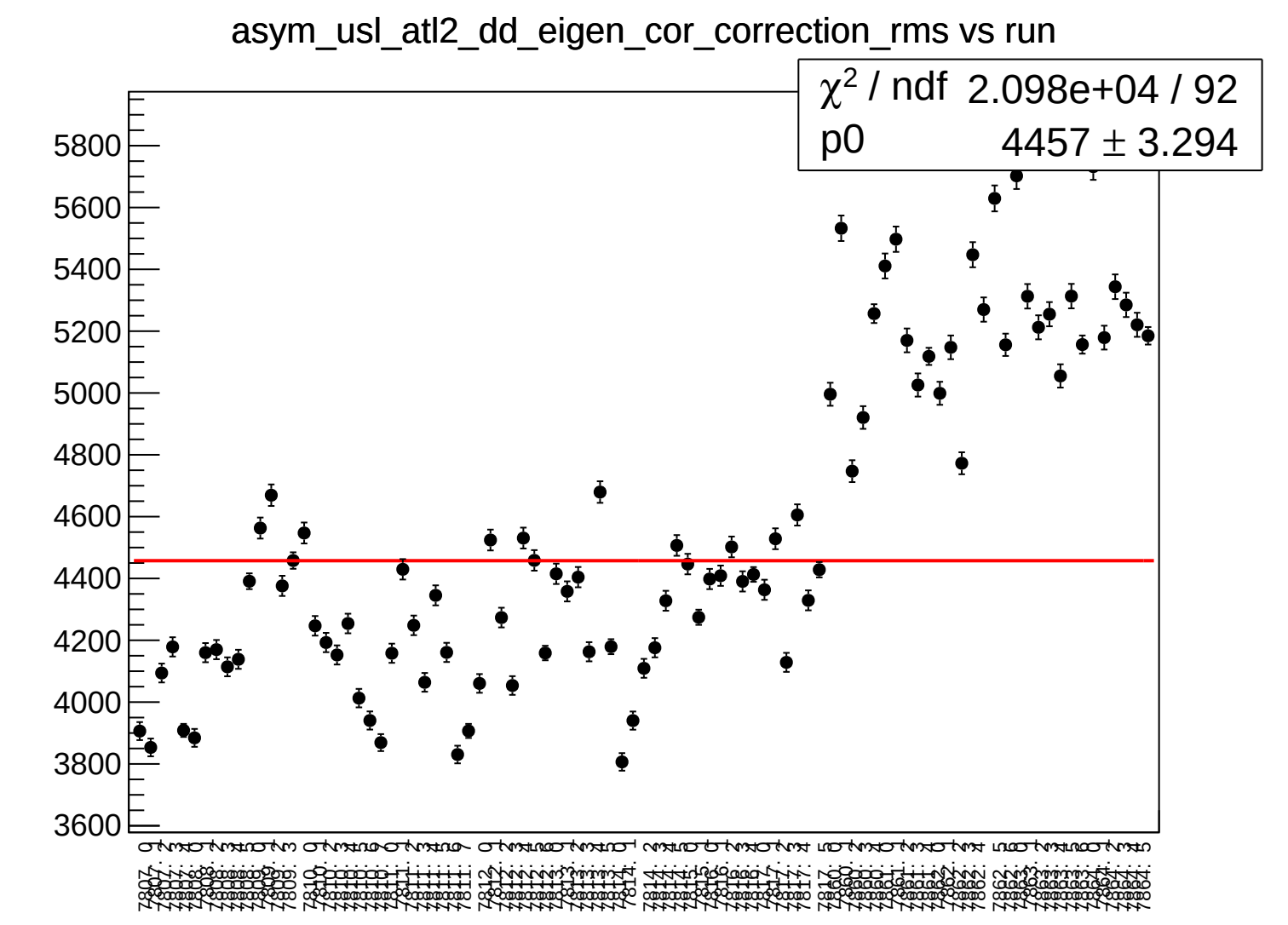

asym_usl_atl2_dd_cor_correction_rms vs run
χ² / ndf 2.098e+04 / 92
p0 4457 ± 3.294
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600

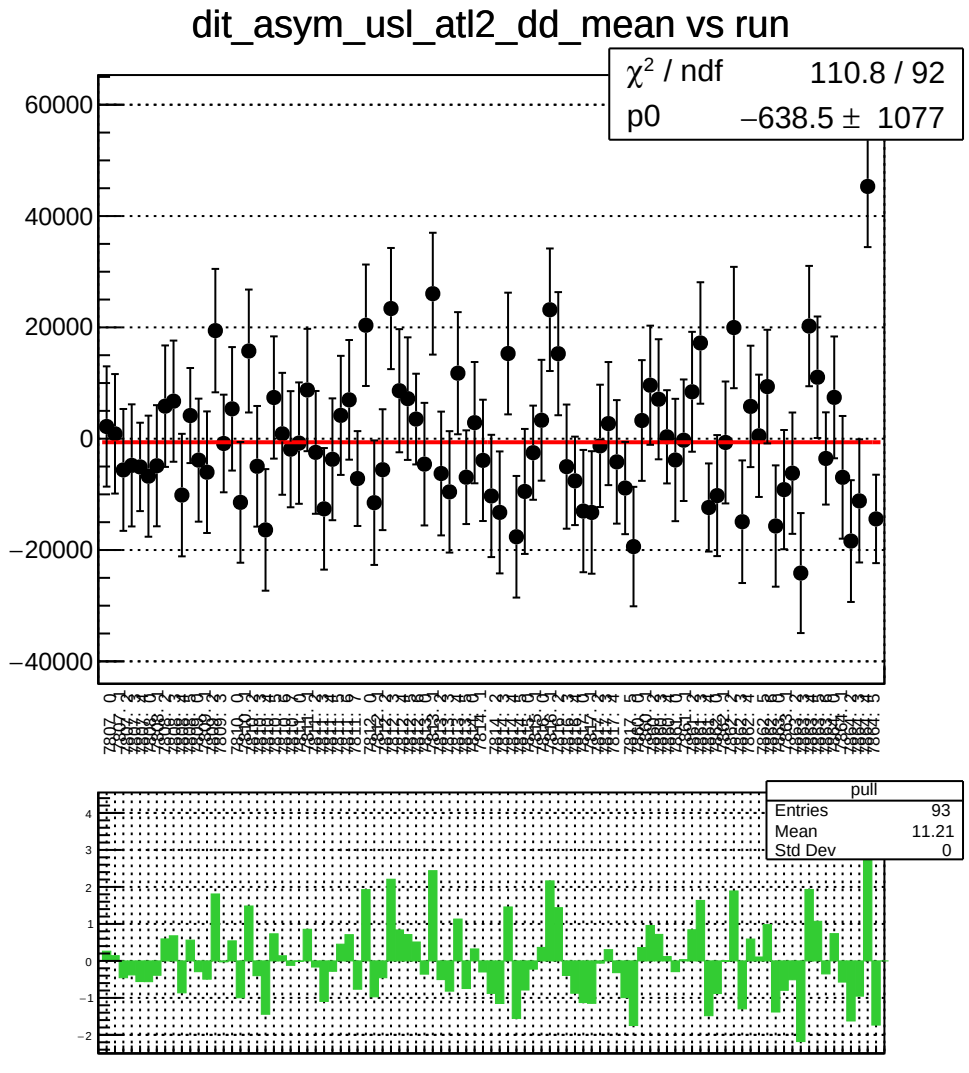

eigen_cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 114 / 92
p0 −513 ± 1061
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 25.52
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.02493
Std Dev 1.107
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

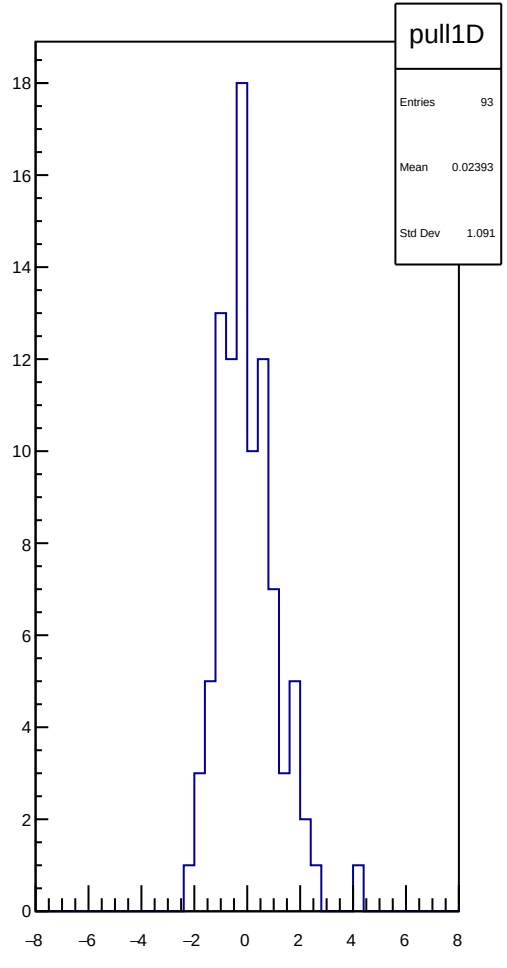

eigen_cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 149.5 / 92
p0 1021 ± 0.7502
1060
1050
1040
1030
1020
1010
1000
990

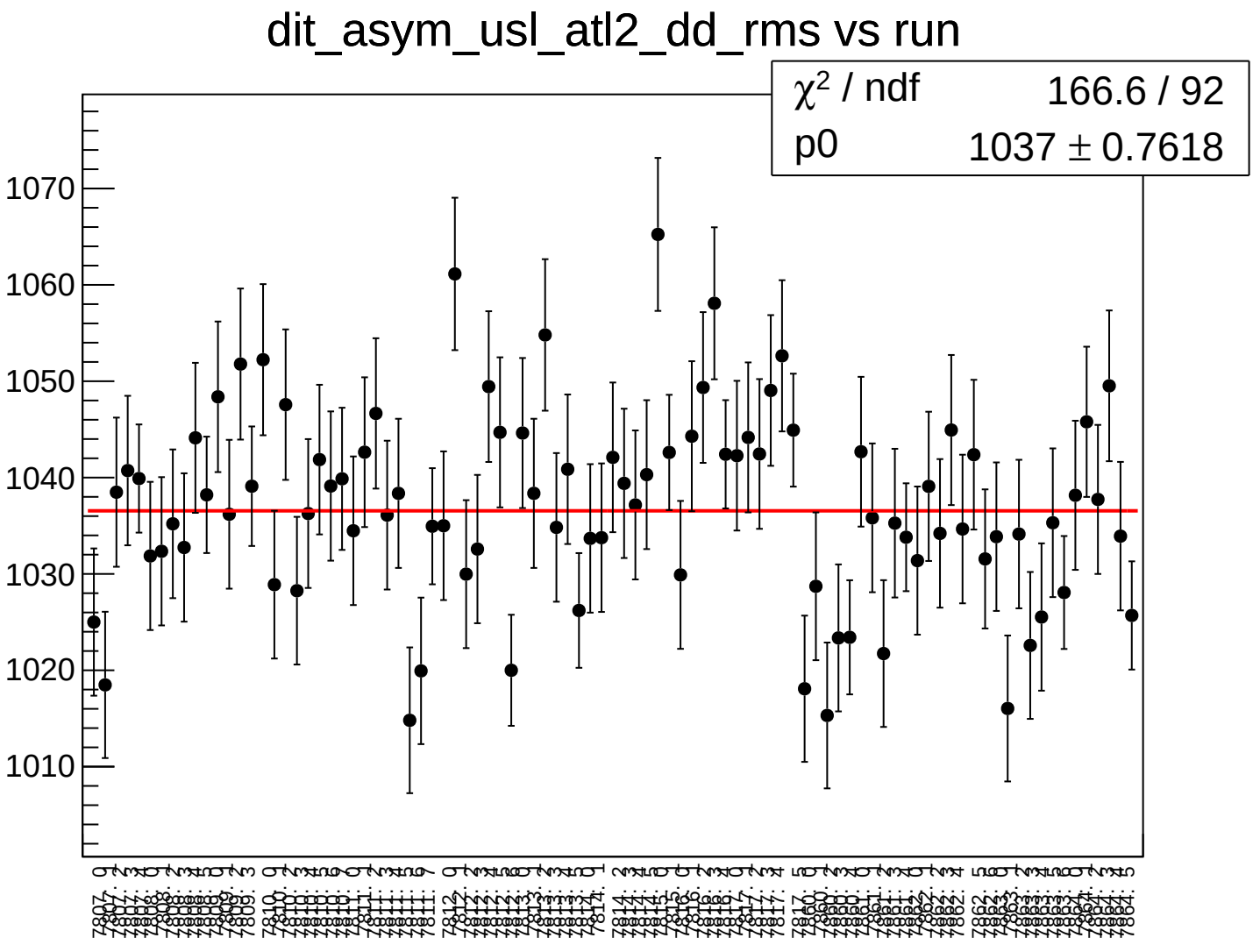

asym_usl_atl2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 84.25 / 92
p0 −4729 ± 4659
pull
Entries 93
Mean −64.25
Std Dev 0

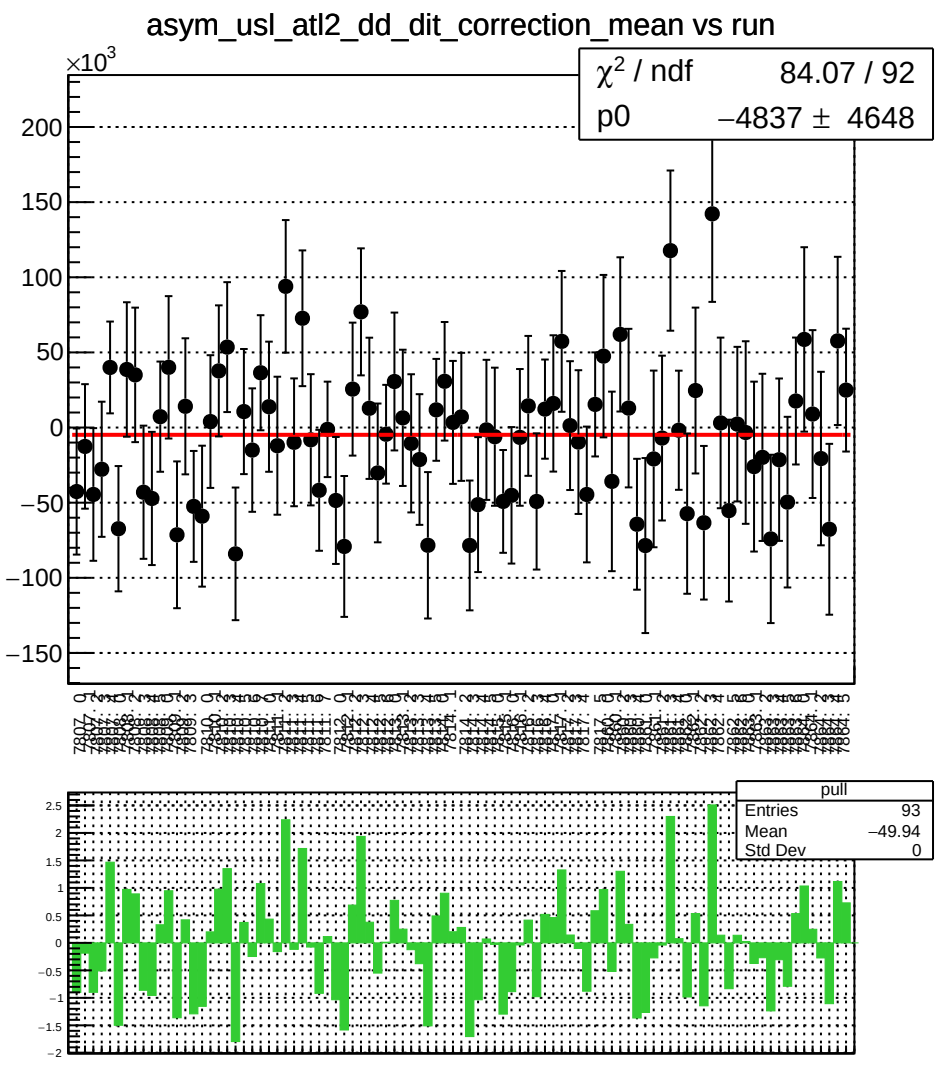

pull1D
Entries 93
Mean −0.009551
Std Dev 0.9518

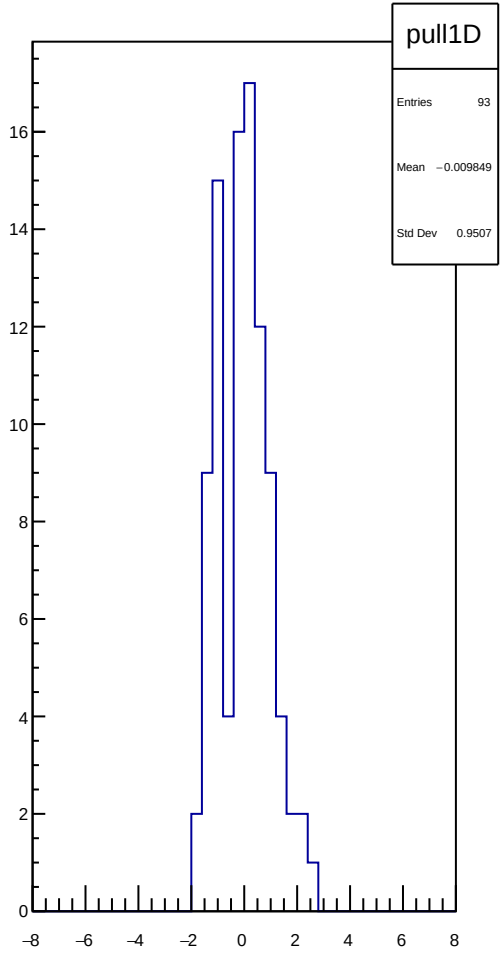

asym_usl_atl2_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.098e+04 / 92
p0 4457 ± 3.294
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600

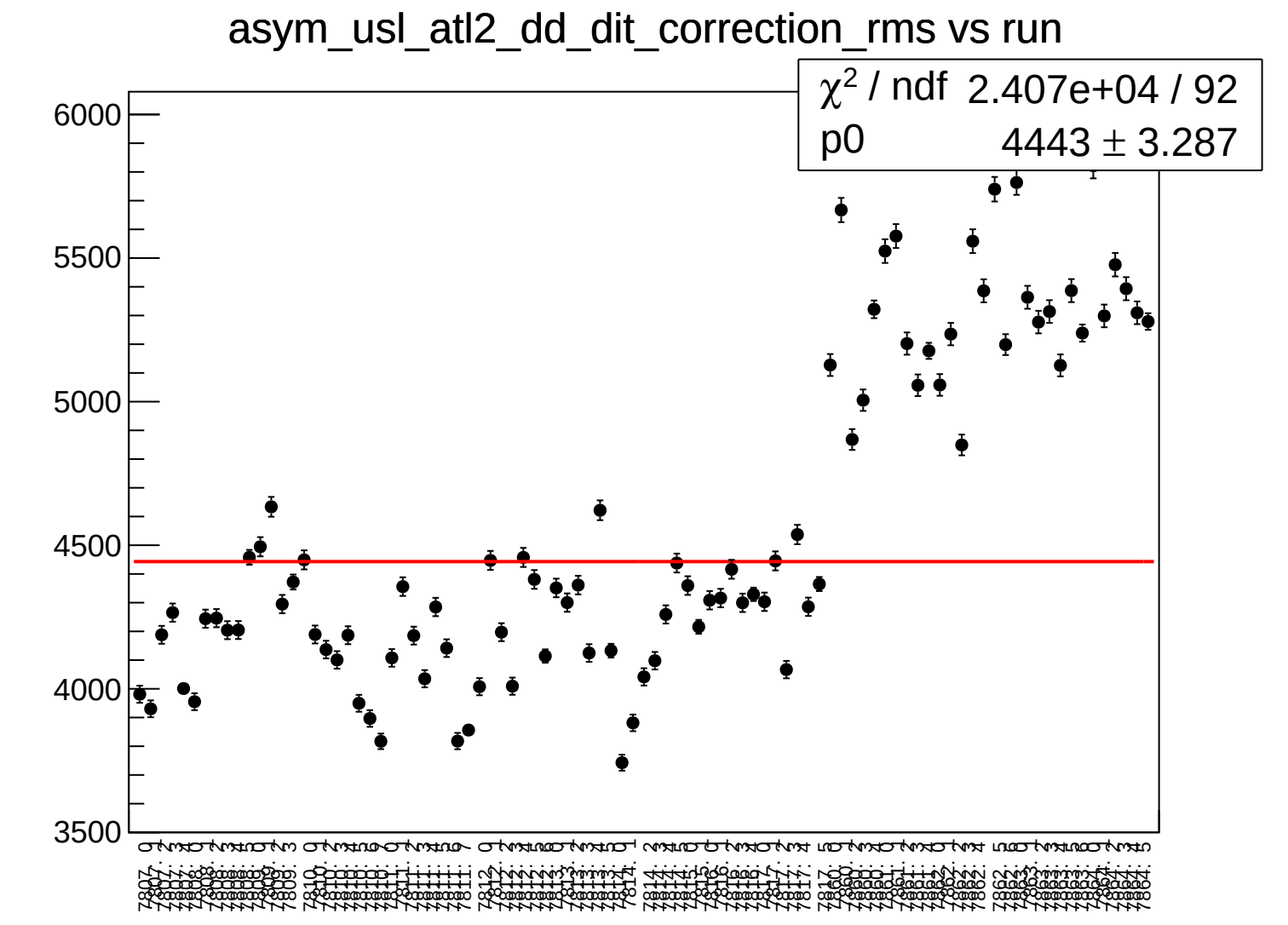

dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 110.8 / 92
p0 −638.5 ± 1077
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 11.21
Std Dev 0
4
3
2
1
0
−1
−2

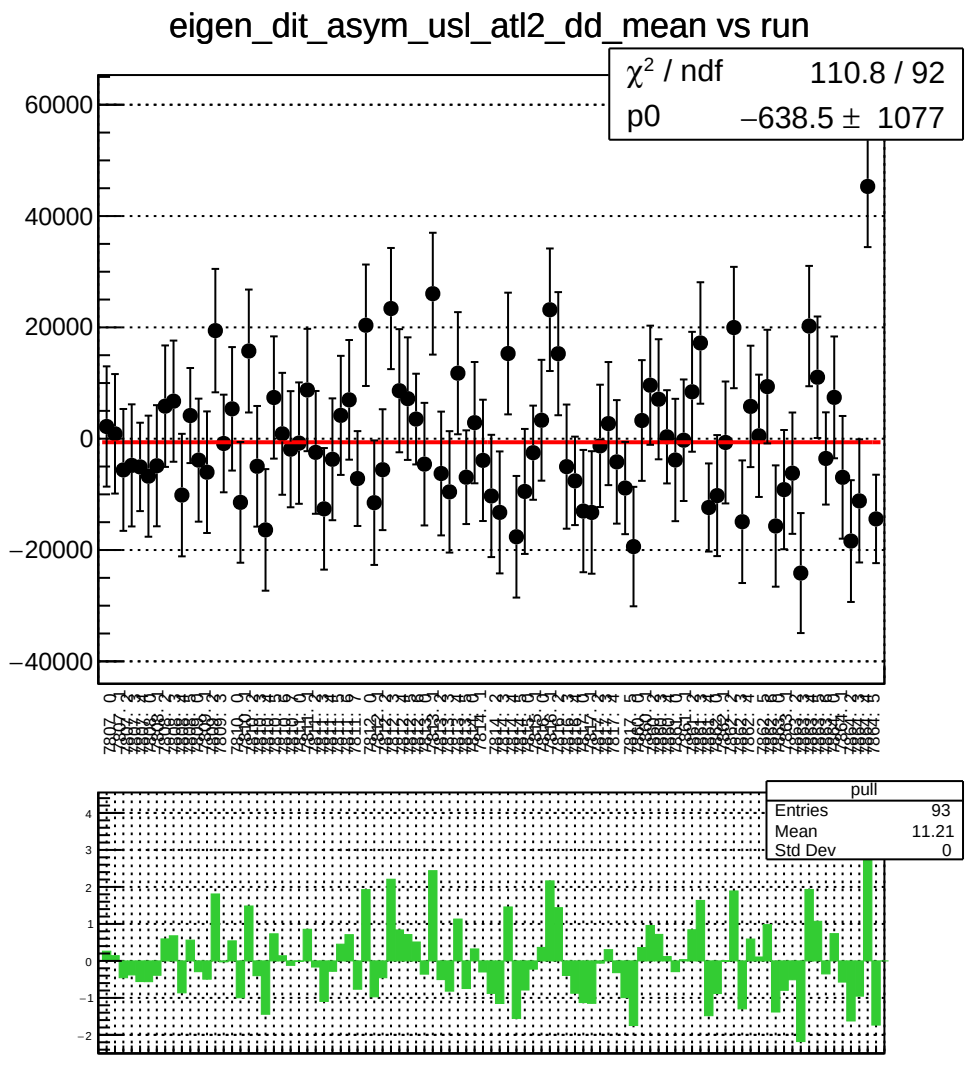

pull1D
Entries 93
Mean 0.02393
Std Dev 1.091
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

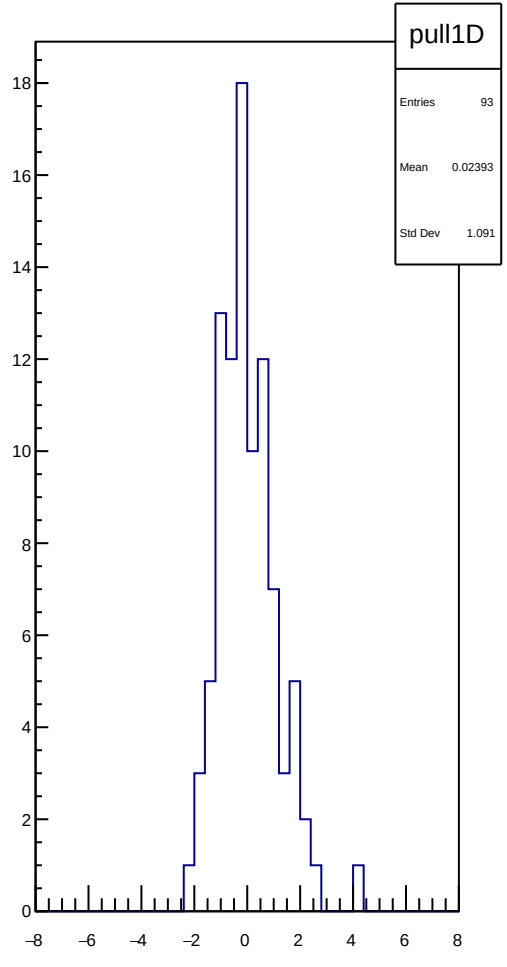

dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 166.6 / 92
p0 1037 ± 0.7618
1070
1060
1050
1040
1030
1020
1010

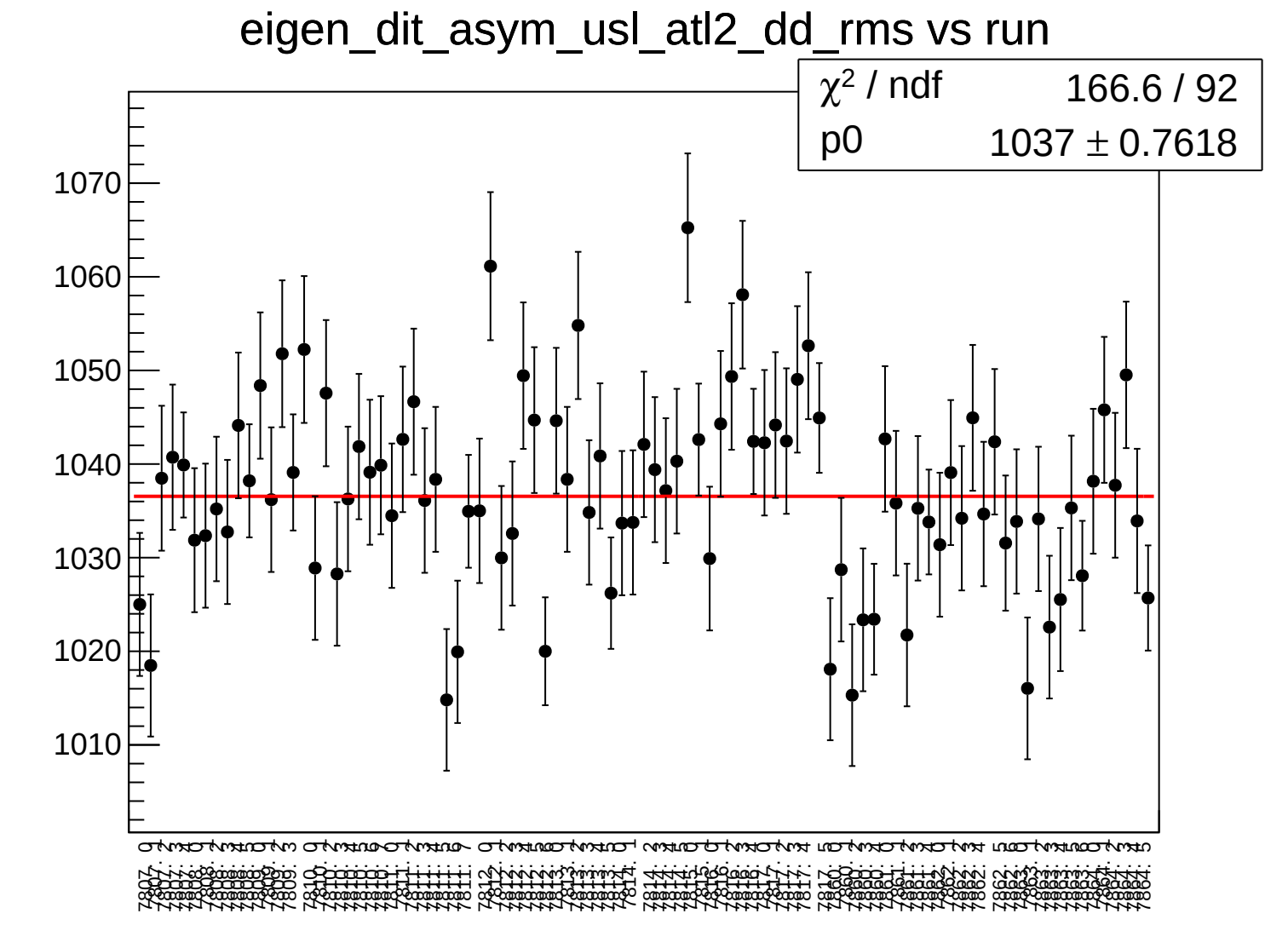

asym_usl_atl2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 84.07 / 92
p0 −4837 ± 4648
200
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean −49.94
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

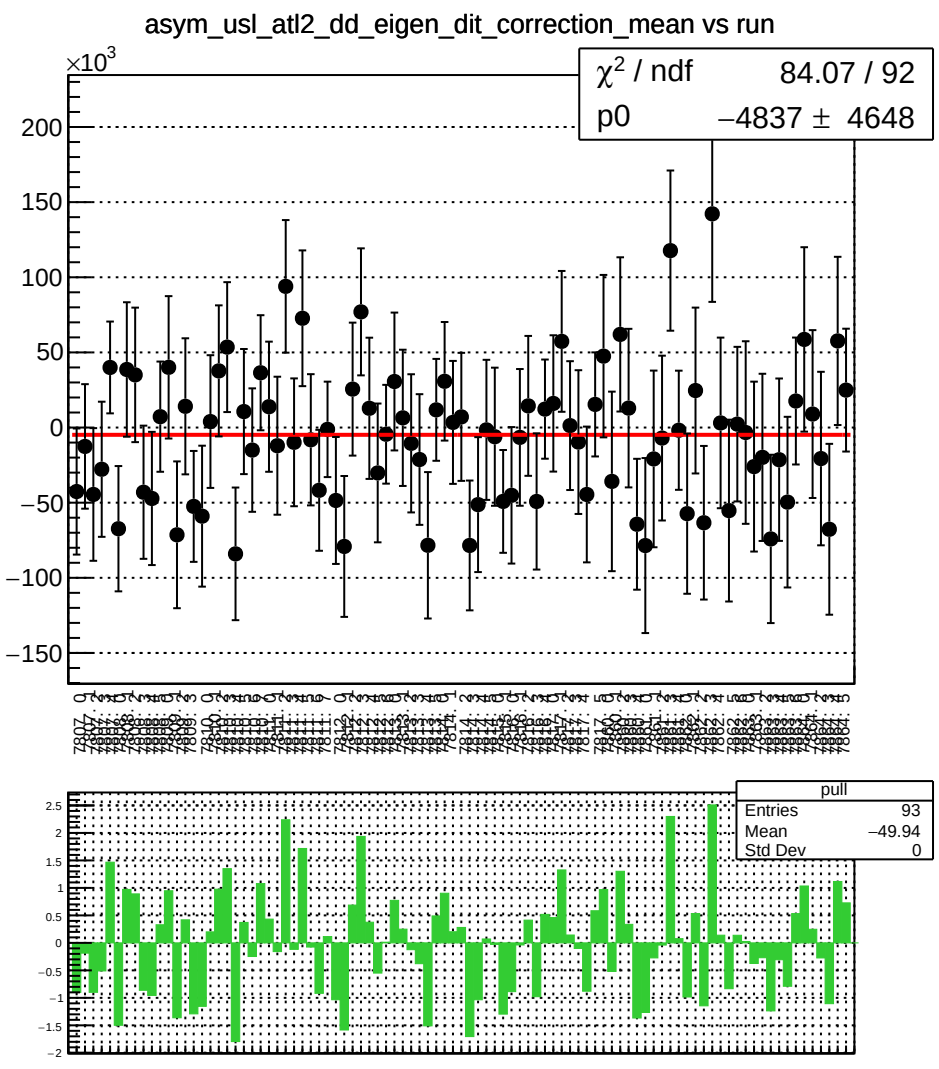

pull1D
Entries 93
Mean −0.009849
Std Dev 0.9507
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

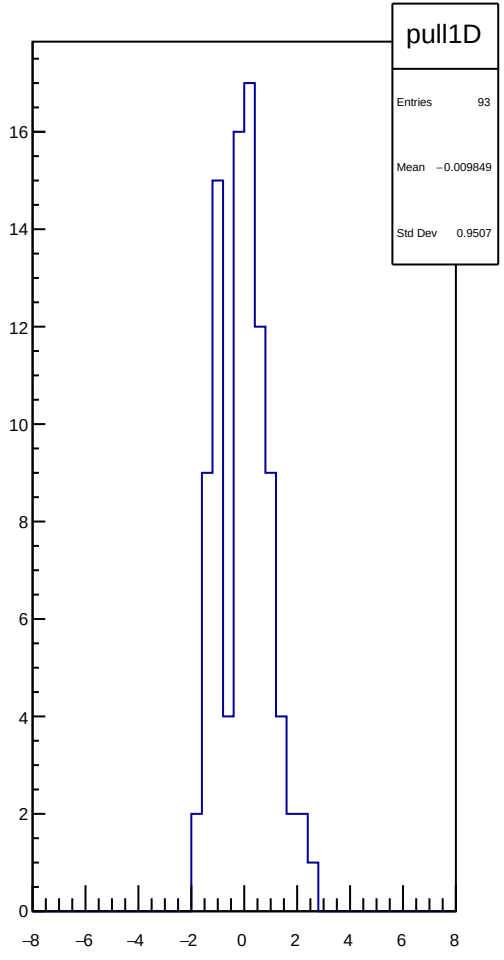

asym_usl_atl2_dd_dit_correction_rms vs run
χ² / ndf 2.407e+04 / 92
p0 4443 ± 3.287
6000
5500
5000
4500
4000
3500

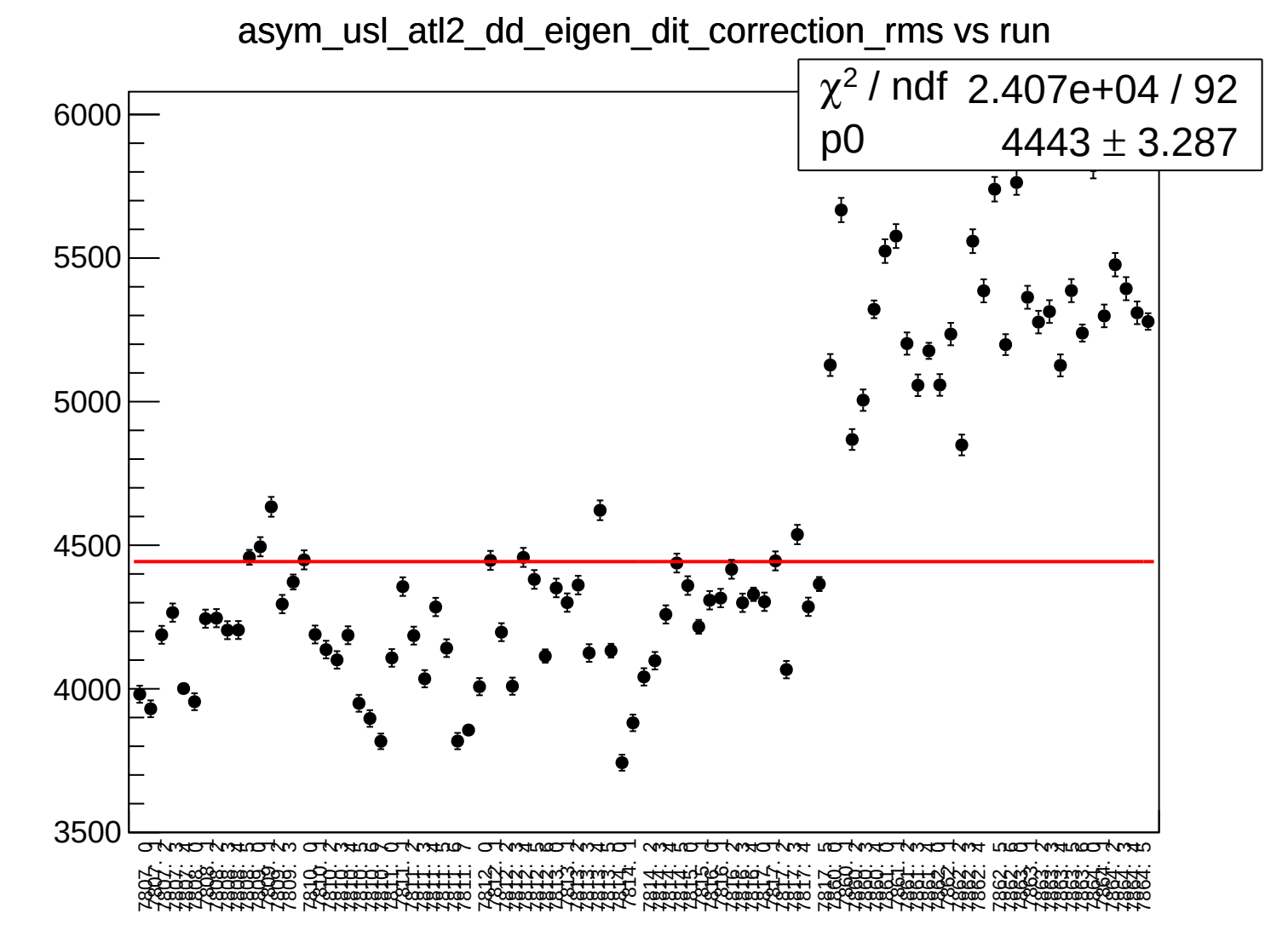

eigen_dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 110.8 / 92
p0 −638.5 ± 1077
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 11.21
Std Dev 0
4
3
2
1
0
−1
−2

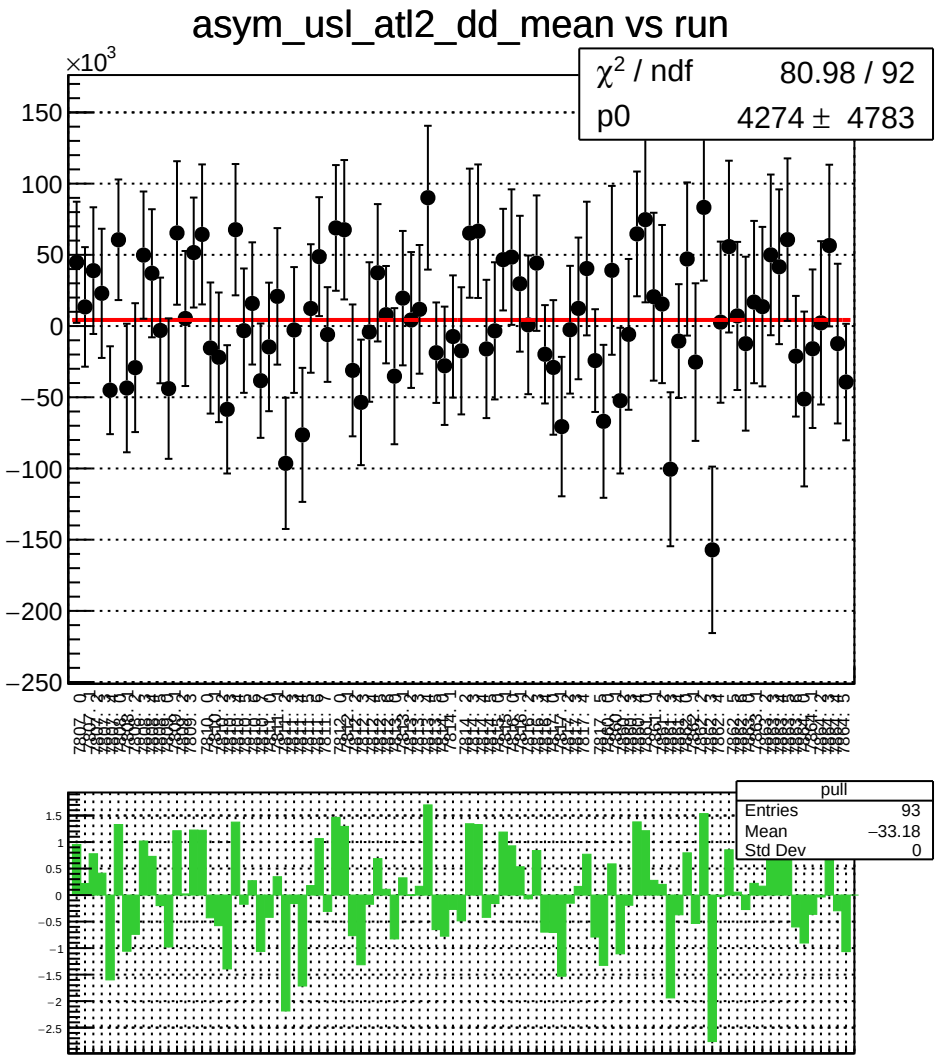

pull1D
Entries 93
Mean 0.02393
Std Dev 1.091
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

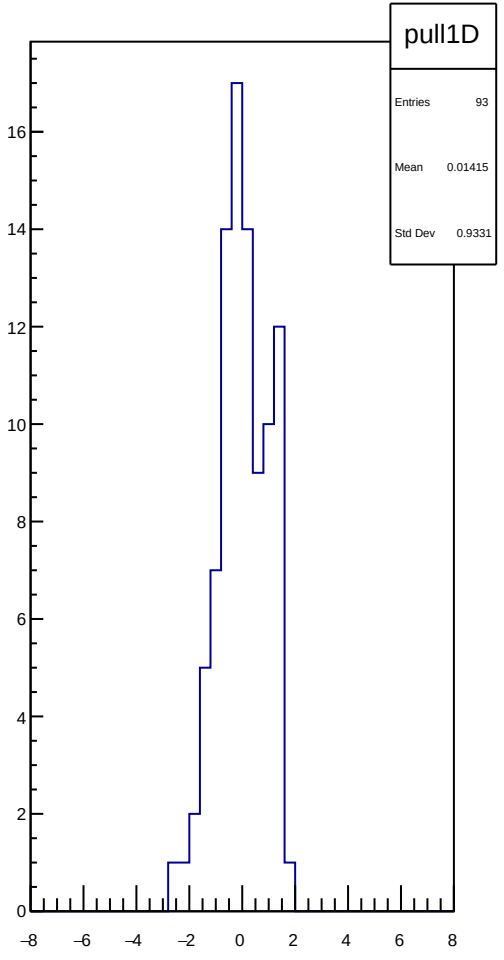

eigen_dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 166.6 / 92
p0 1037 ± 0.7618
1070
1060
1050
1040
1030
1020
1010

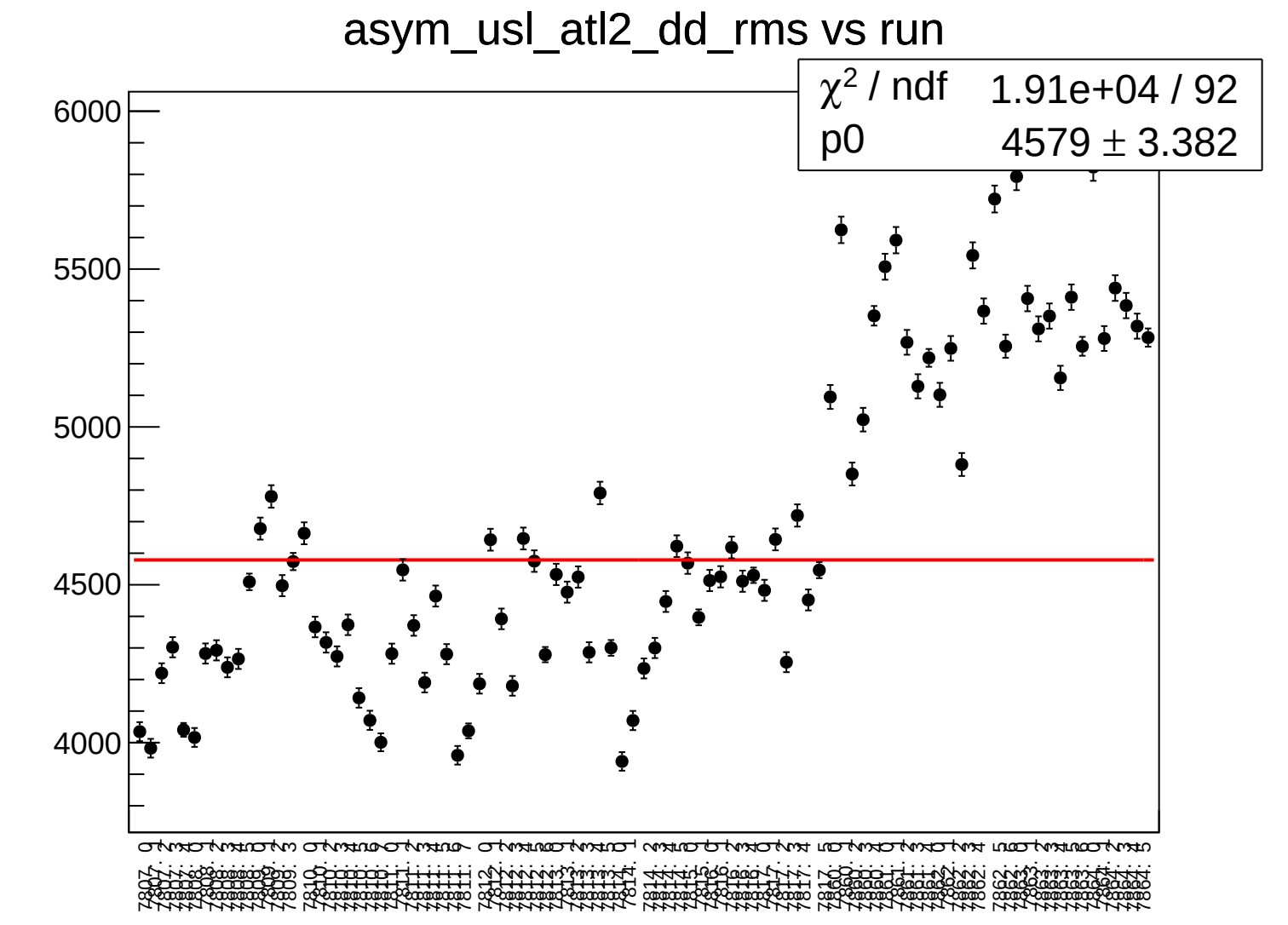

asym_usl_atl2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 84.07 / 92
p0 −4837 ± 4648
200
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean −49.94
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

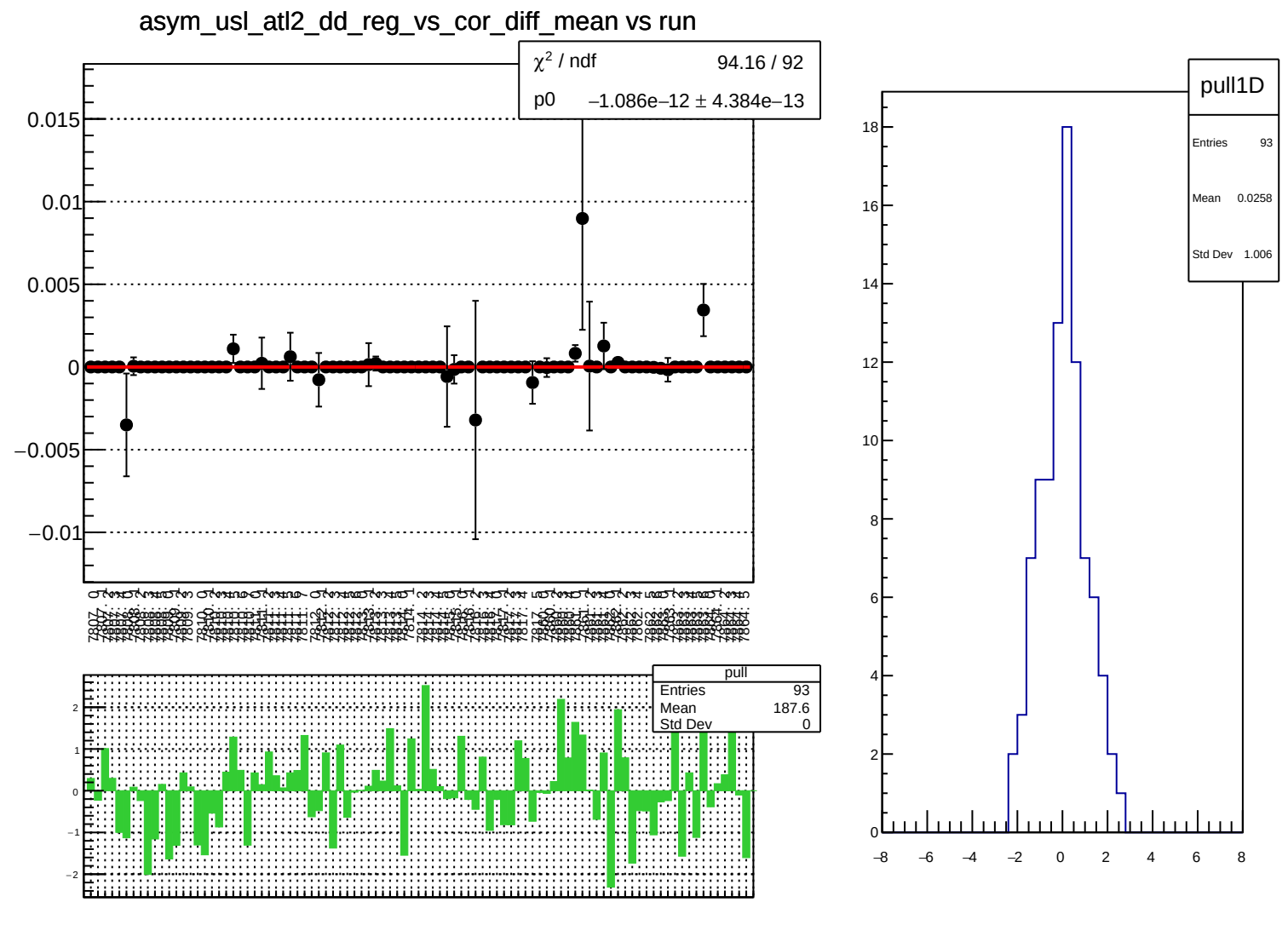

pull1D
Entries 93
Mean −0.009849
Std Dev 0.9507
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

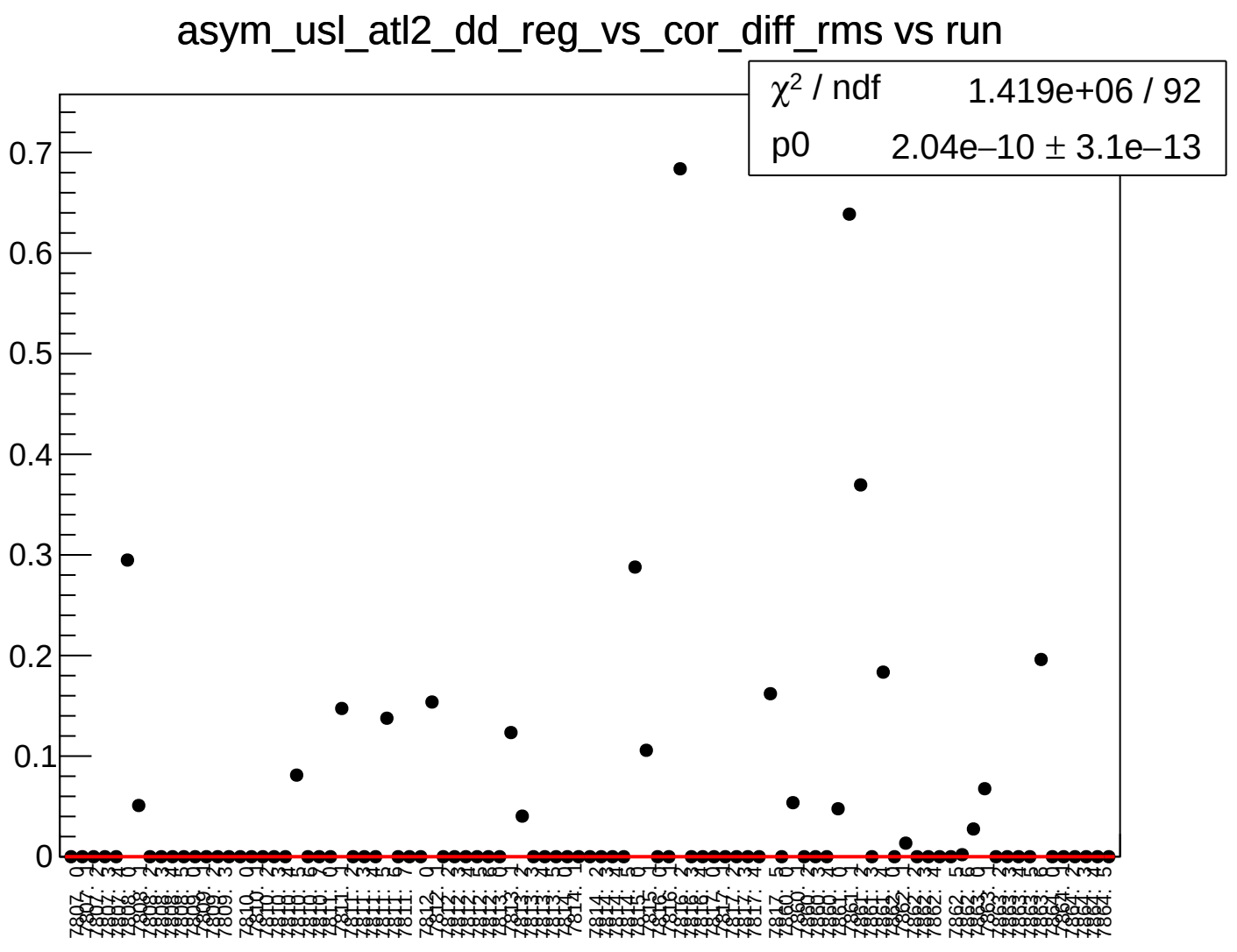

asym_usl_atl2_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.407e+04 / 92
p0 4443 ± 3.287
6000
5500
5000
4500
4000
3500

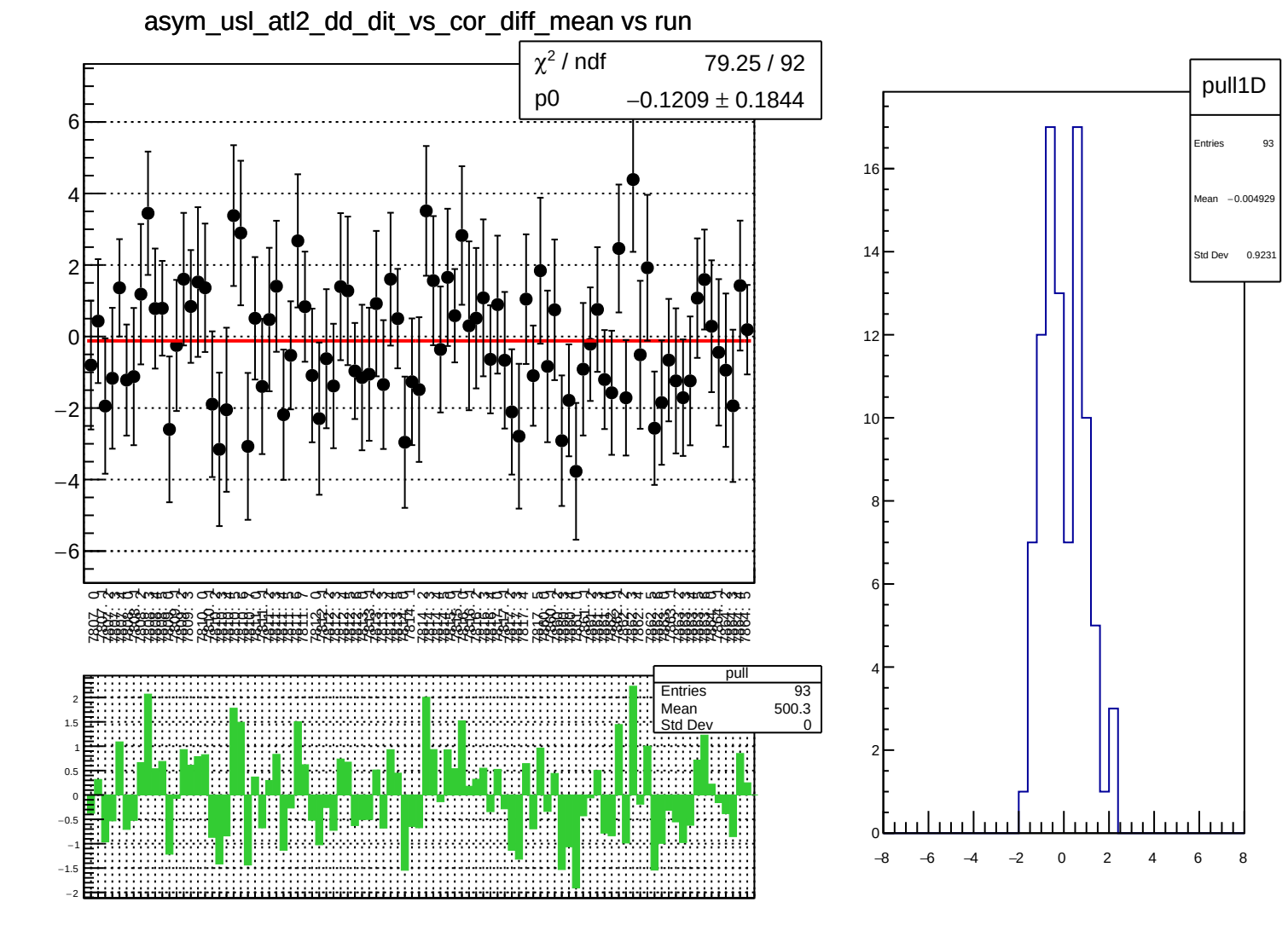

asym_usl_atl2_dd_mean vs run
×10^3
χ² / ndf 80.98 / 92
p0 4274 ± 4783
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 93
Mean −33.18
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

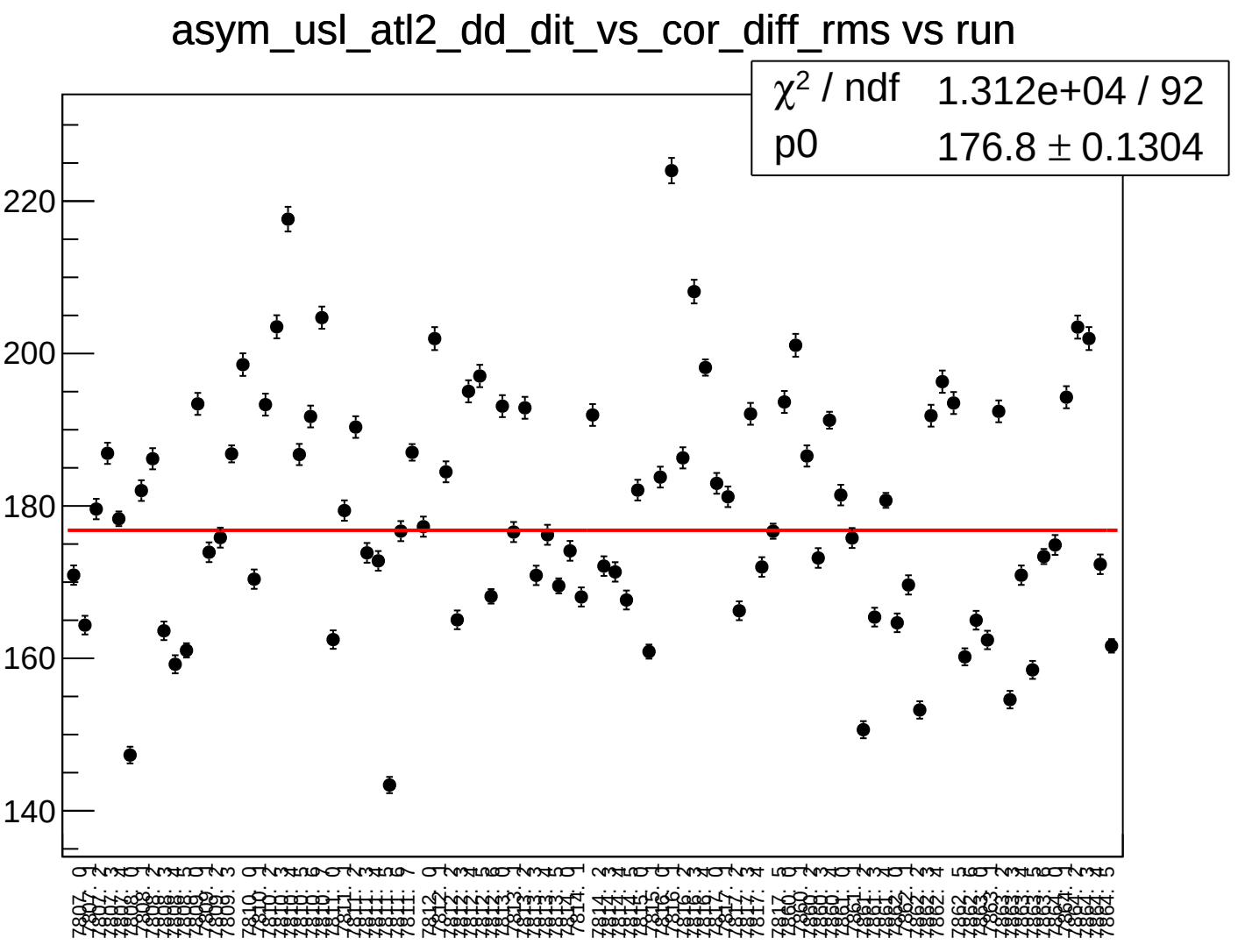

pull1D
Entries 93
Mean 0.01415
Std Dev 0.9331
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

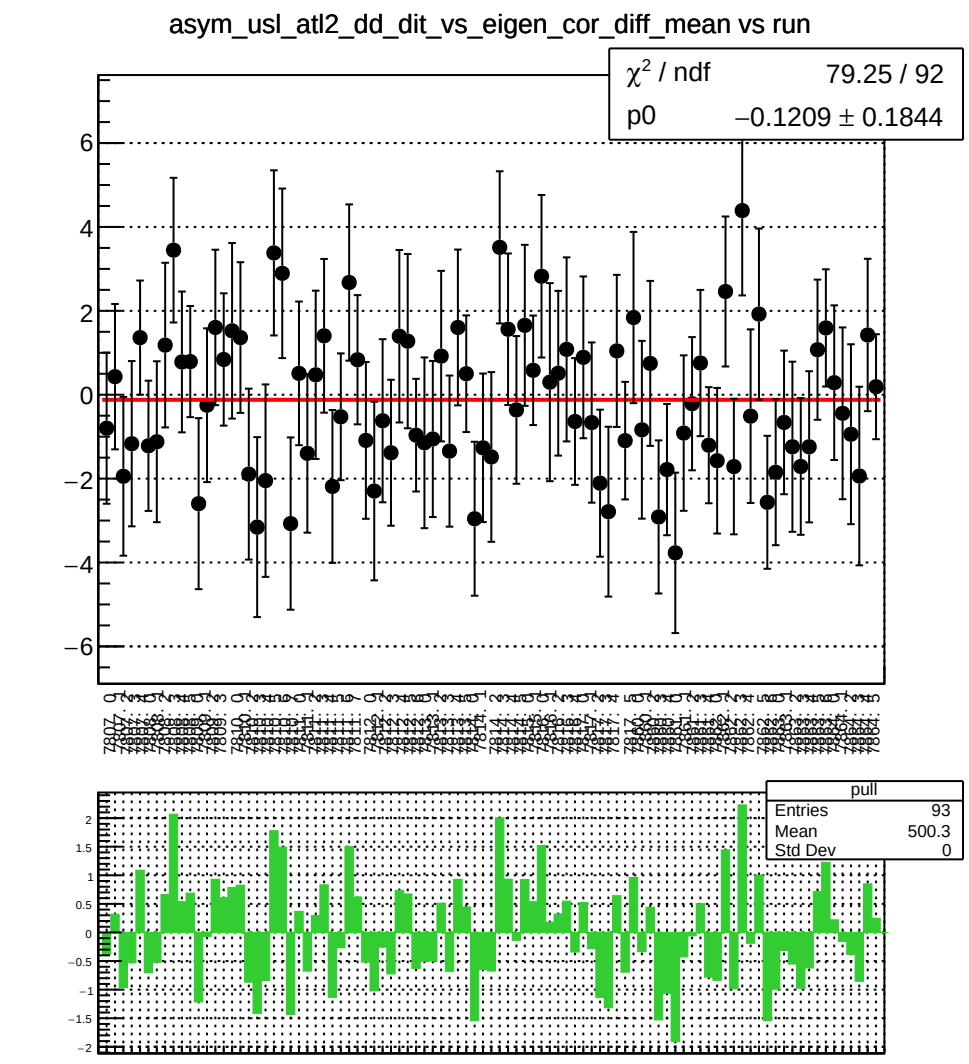

asym_usl_atl2_dd_rms vs run
χ² / ndf 1.91e+04 / 92
p0 4579 ± 3.382
6000
5500
5000
4500
4000

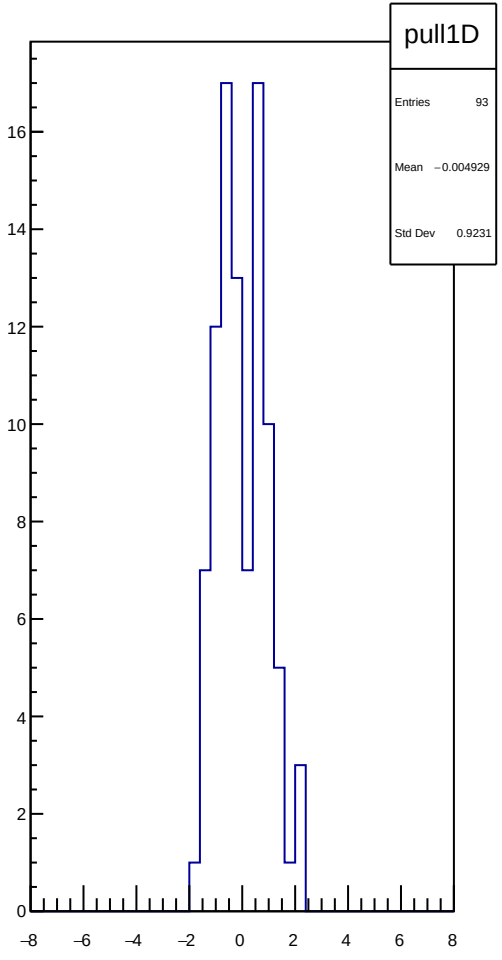

asym_usl_atl2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 94.16 / 92
p0 −1.086e−12 ± 4.384e−13
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 93
Mean 187.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.0258
Std Dev 1.006
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

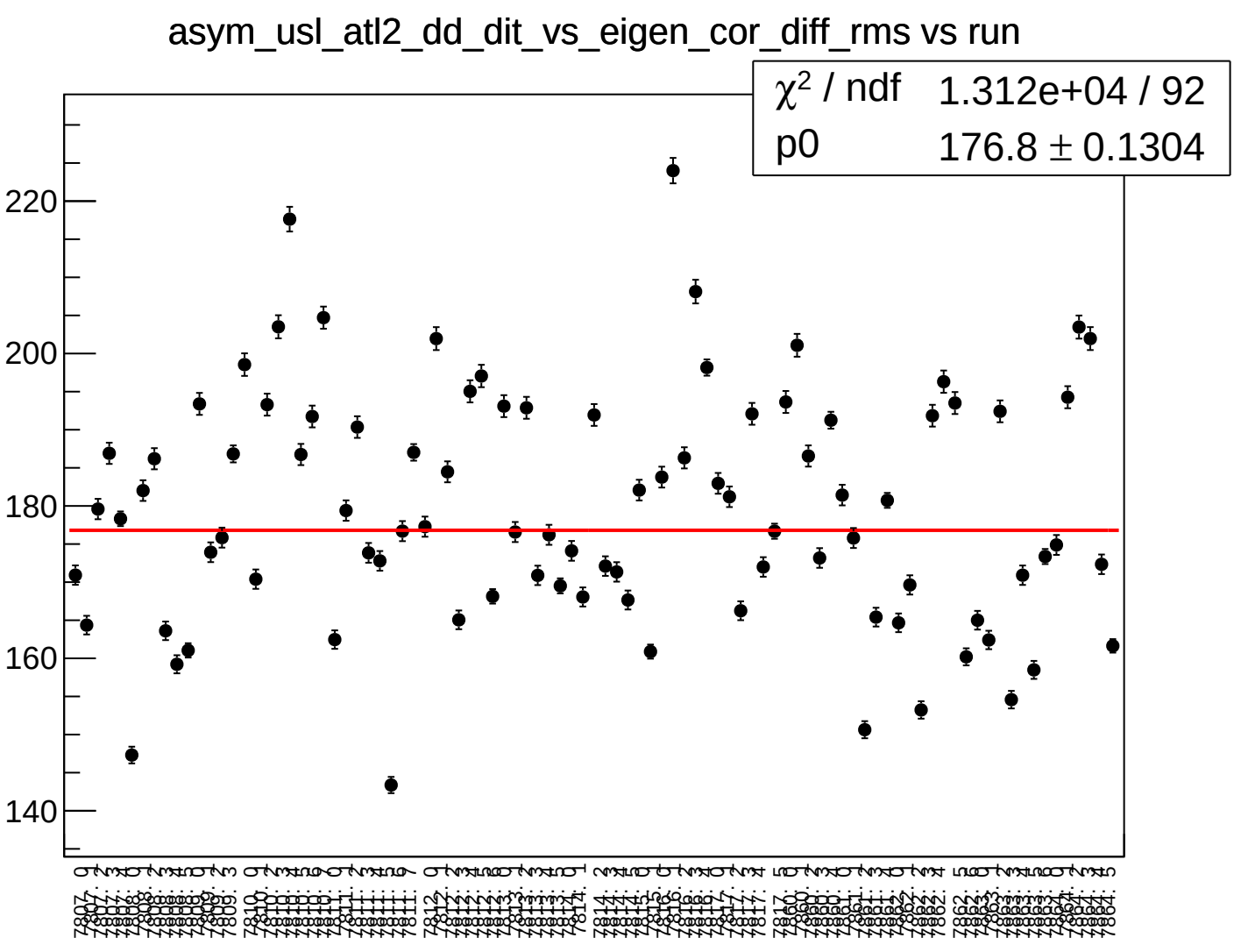

asym_usl_atl2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.419e+06 / 92
p0 2.04e−10 ± 3.1e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

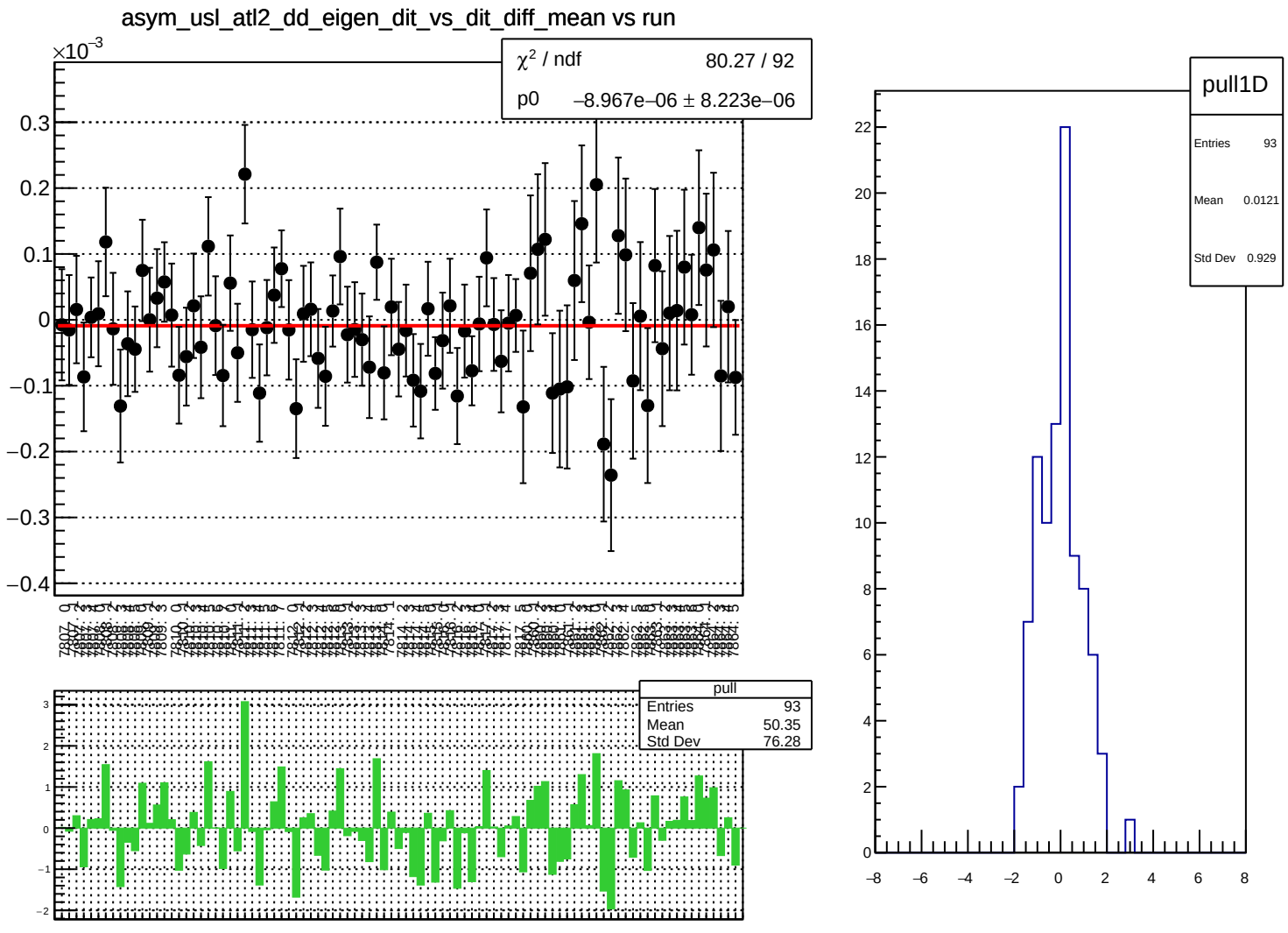

asym_usl_atl2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 79.25 / 92
p0 −0.1209 ± 0.1844
pull
Entries 93
Mean 500.3
Std Dev 0
pull1D
Entries 93
Mean −0.004929
Std Dev 0.9231

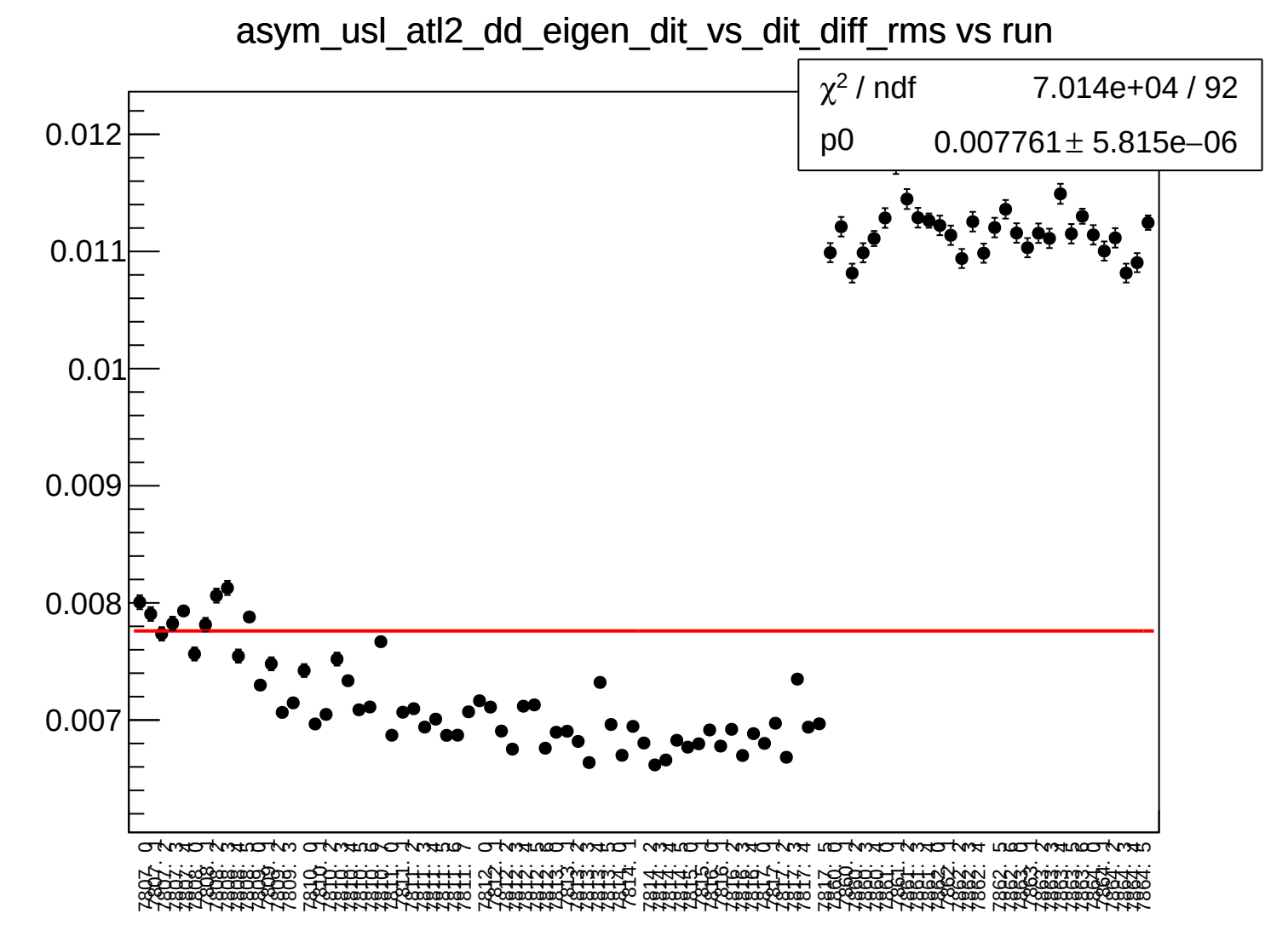

asym_usl_atl2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.312e+04 / 92
p0 176.8 ± 0.1304
220
200
180
160
140

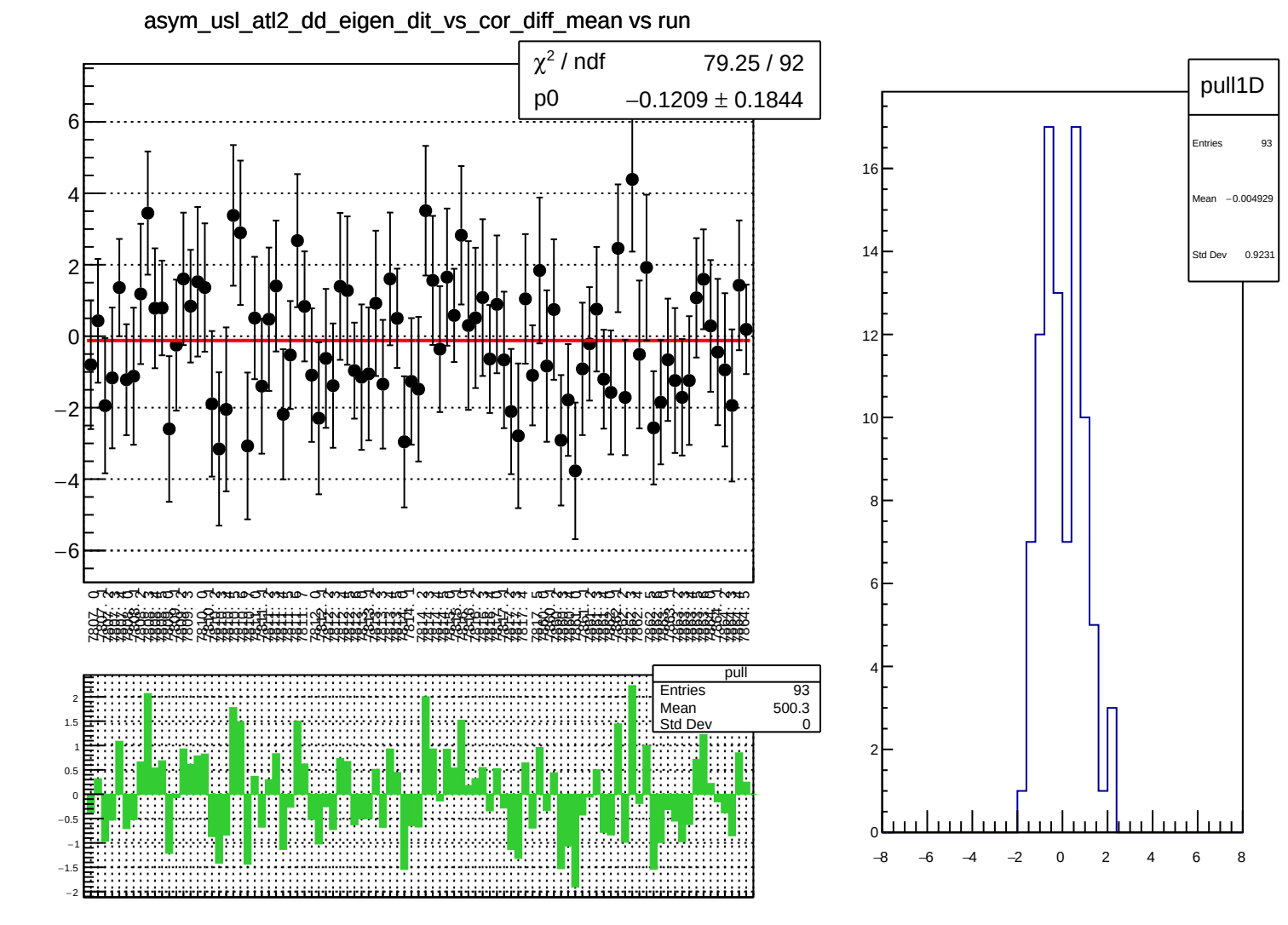

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.25 / 92
p0 −0.1209 ± 0.1844
pull
Entries 93
Mean 500.3
Std Dev 0

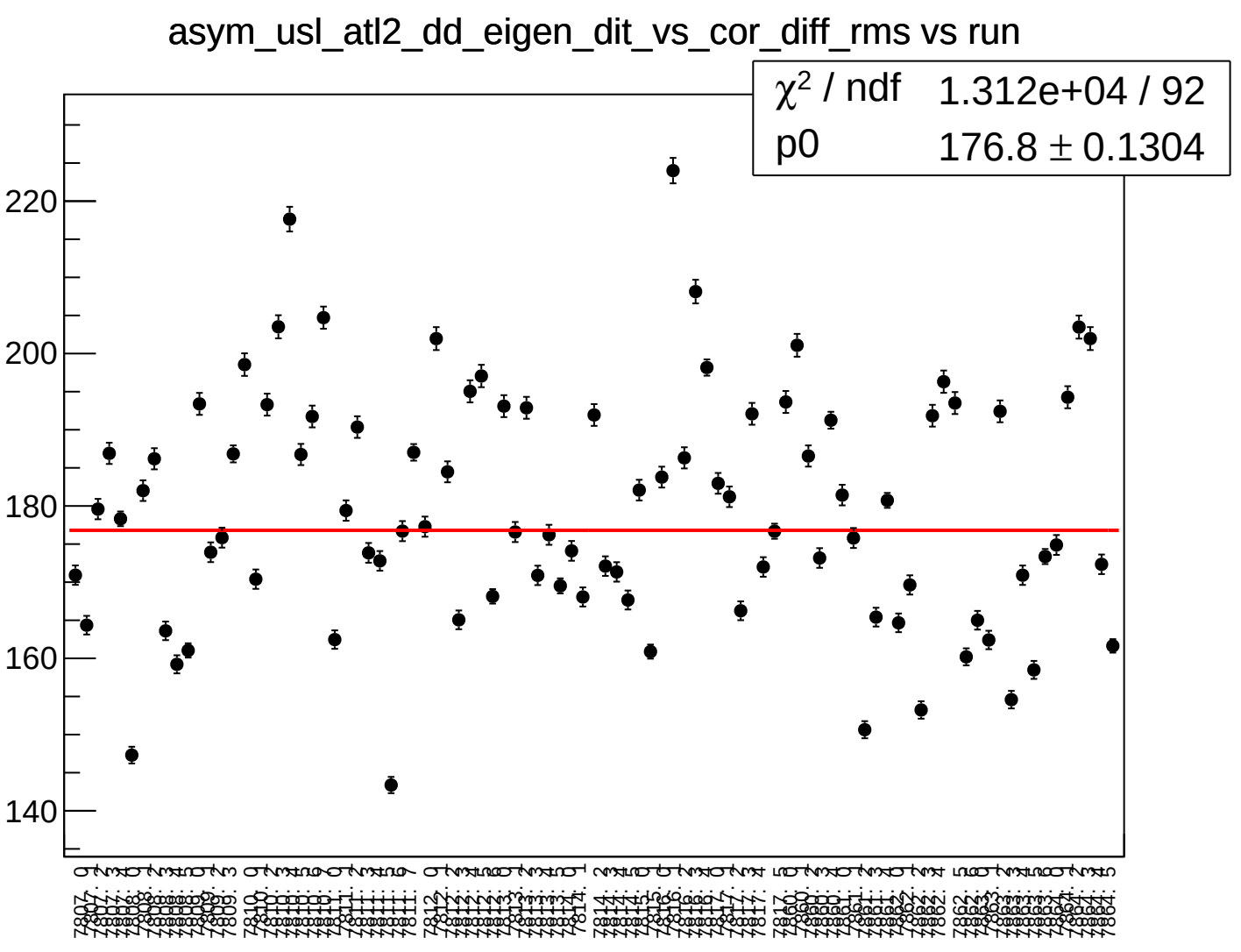

pull1D
Entries 93
Mean −0.004929
Std Dev 0.9231

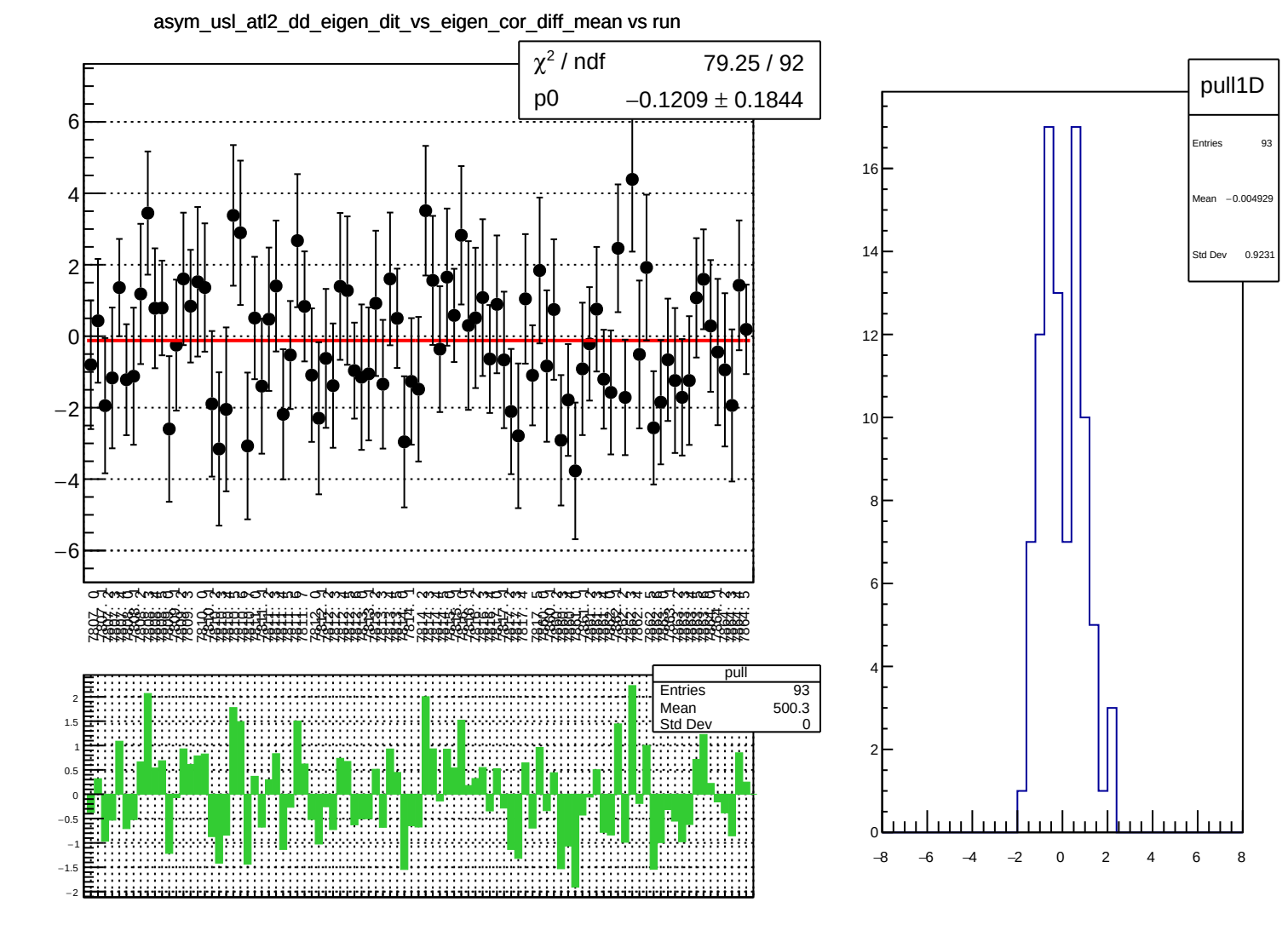

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.312e+04 / 92
p0 176.8 ± 0.1304
220
200
180
160
140

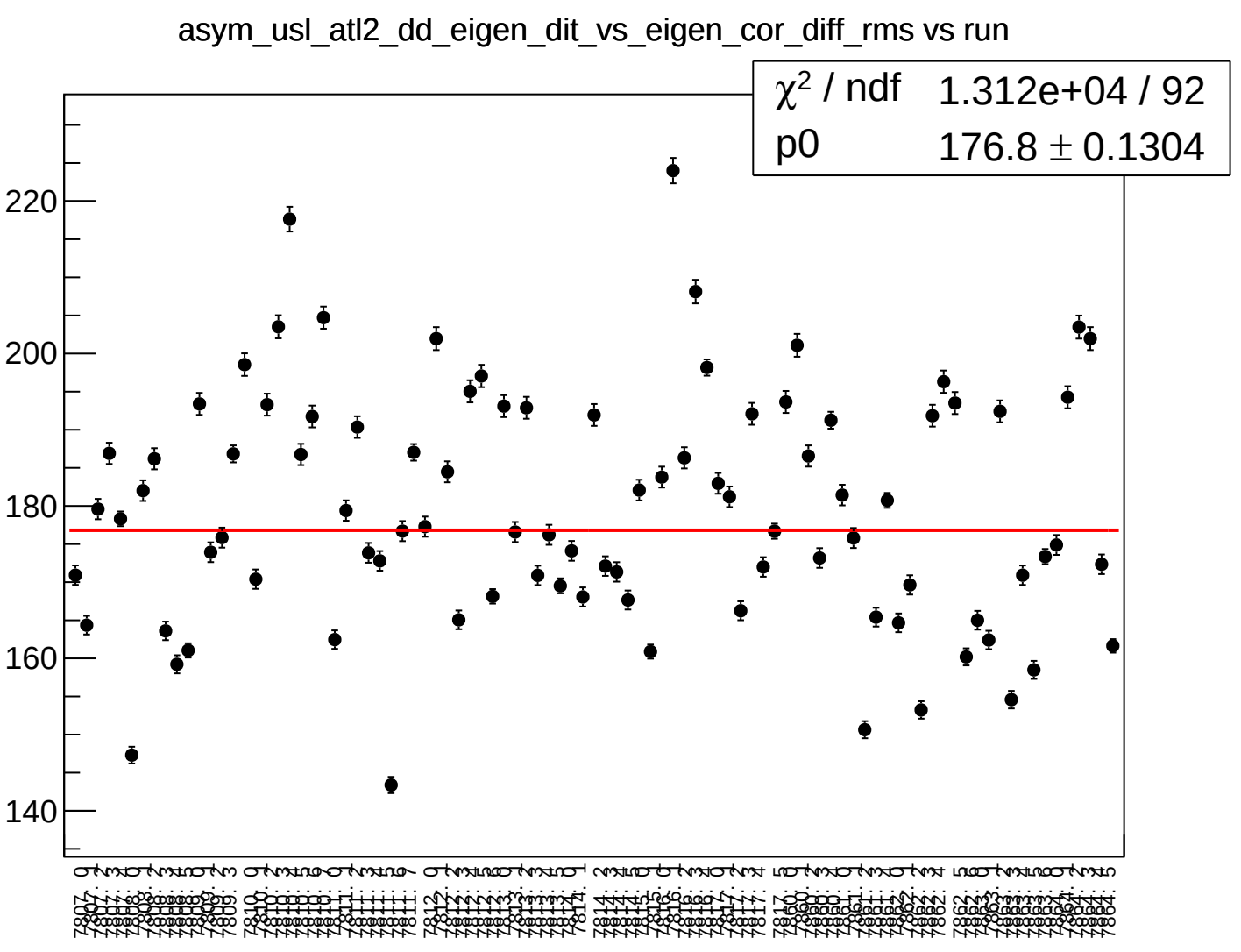

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 80.27 / 92
p0 −8.967e−06 ± 8.223e−06
pull
Entries 93
Mean 50.35
Std Dev 76.28
pull1D
Entries 93
Mean 0.0121
Std Dev 0.929

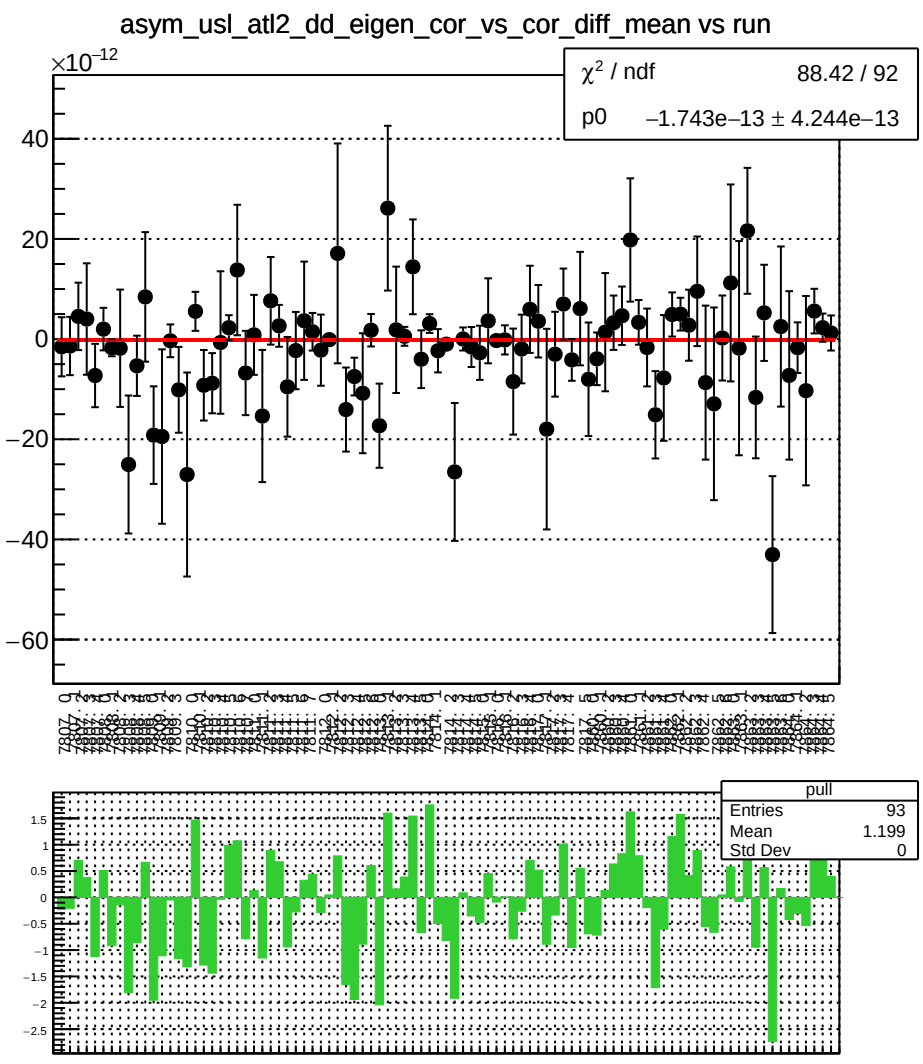

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.014e+04 / 92
p0 0.007761 ± 5.815e−06
0.012
0.011
0.01
0.009
0.008
0.007

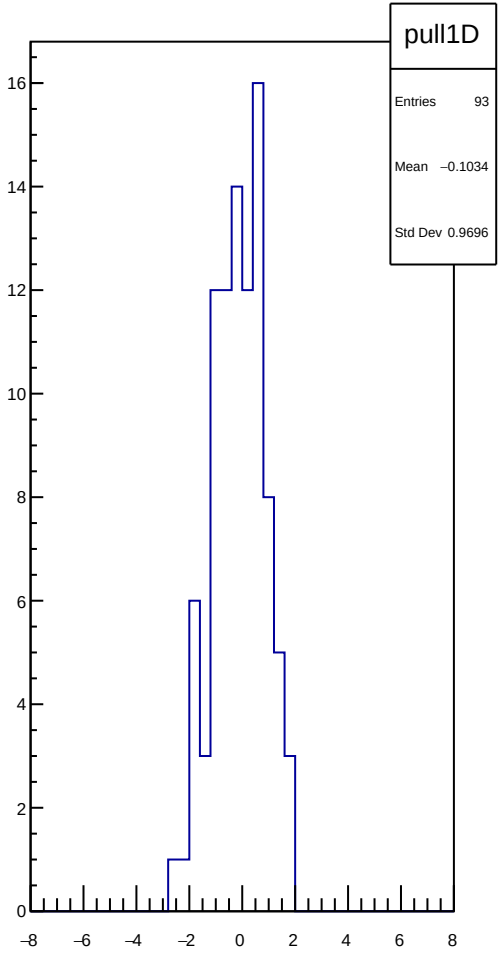

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.25 / 92
p0 −0.1209 ± 0.1844
pull
Entries 93
Mean 500.3
Std Dev 0
pull1D
Entries 93
Mean −0.004929
Std Dev 0.9231

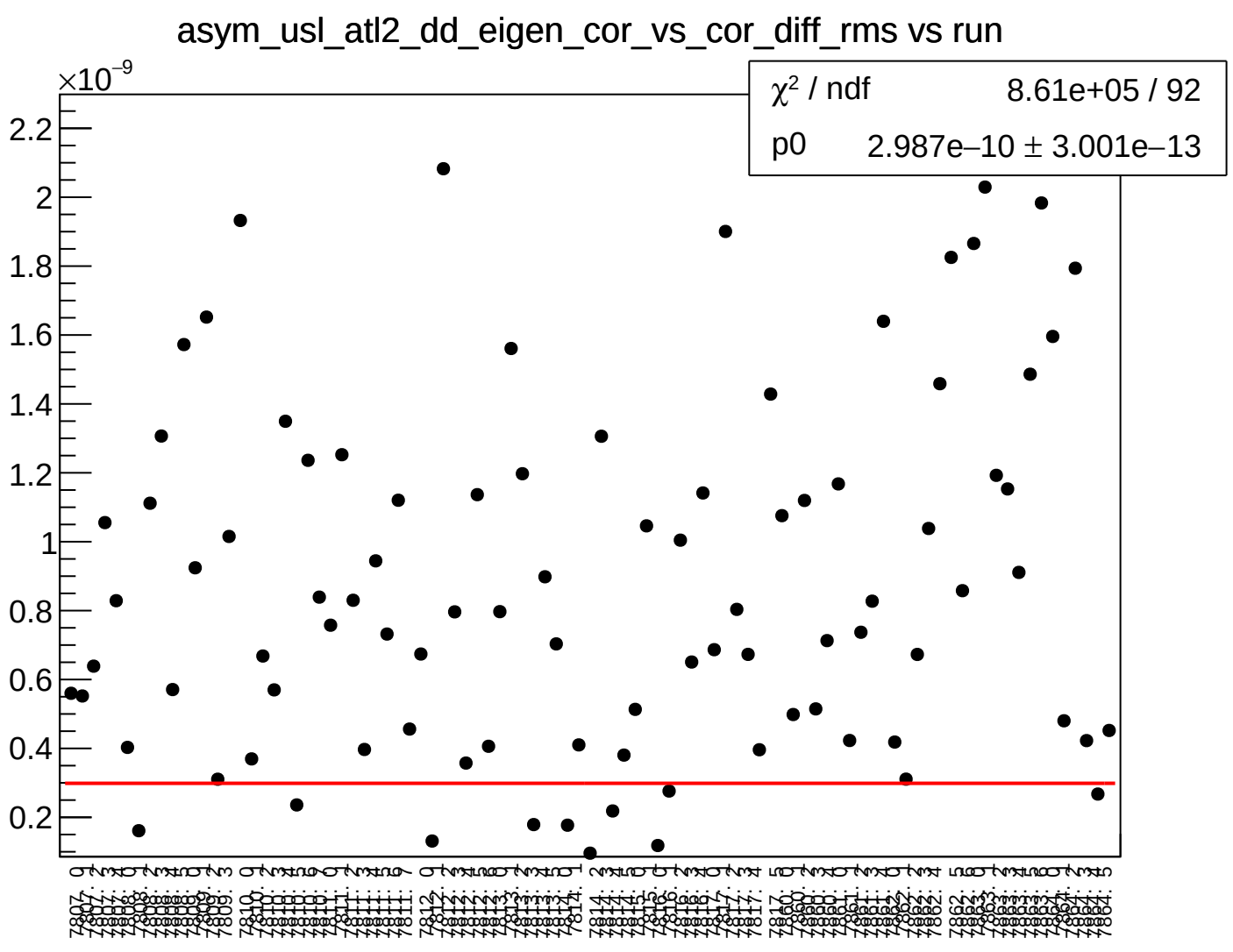

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.312e+04 / 92
p0 176.8 ± 0.1304
220
200
180
160
140

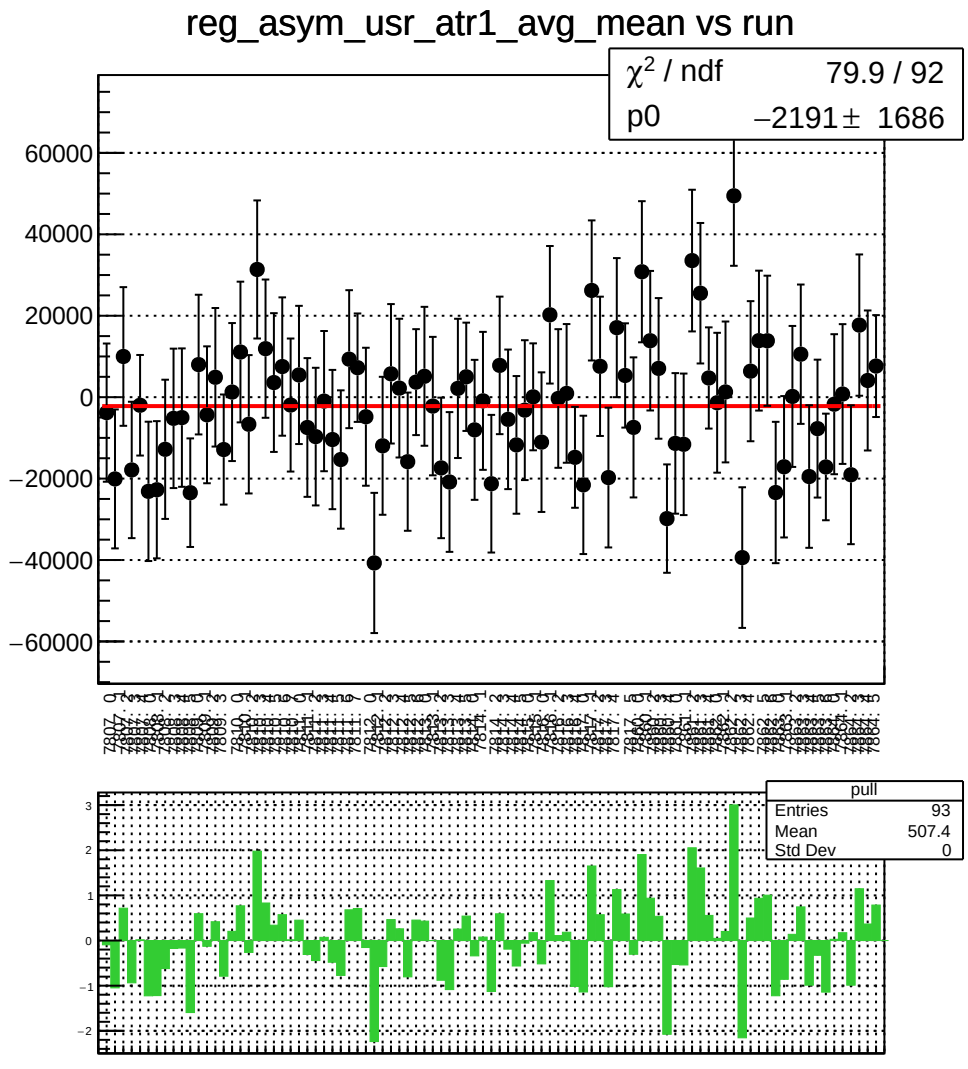

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.25 / 92
p0 −0.1209 ± 0.1844
pull
Entries 93
Mean 500.3
Std Dev 0
pull1D
Entries 93
Mean −0.004929
Std Dev 0.9231

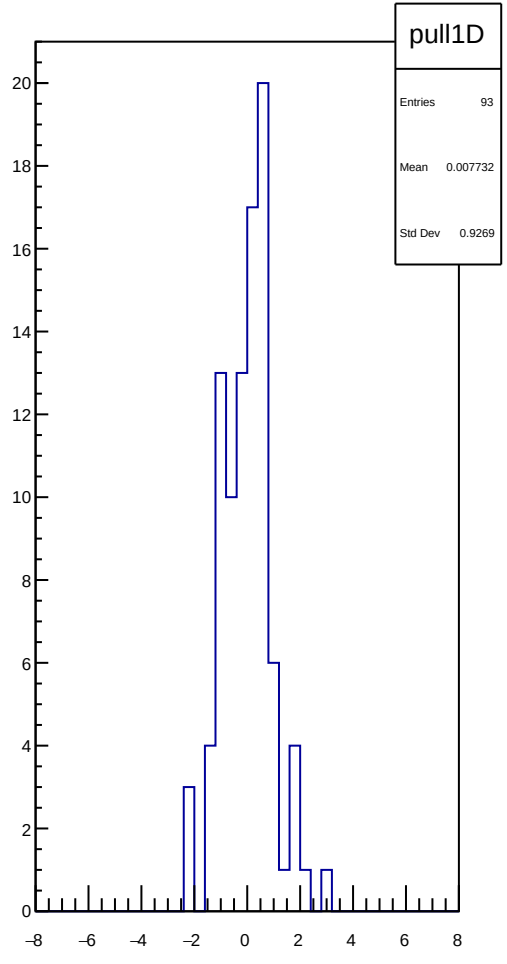

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.312e+04 / 92
p0 176.8 ± 0.1304
220
200
180
160
140

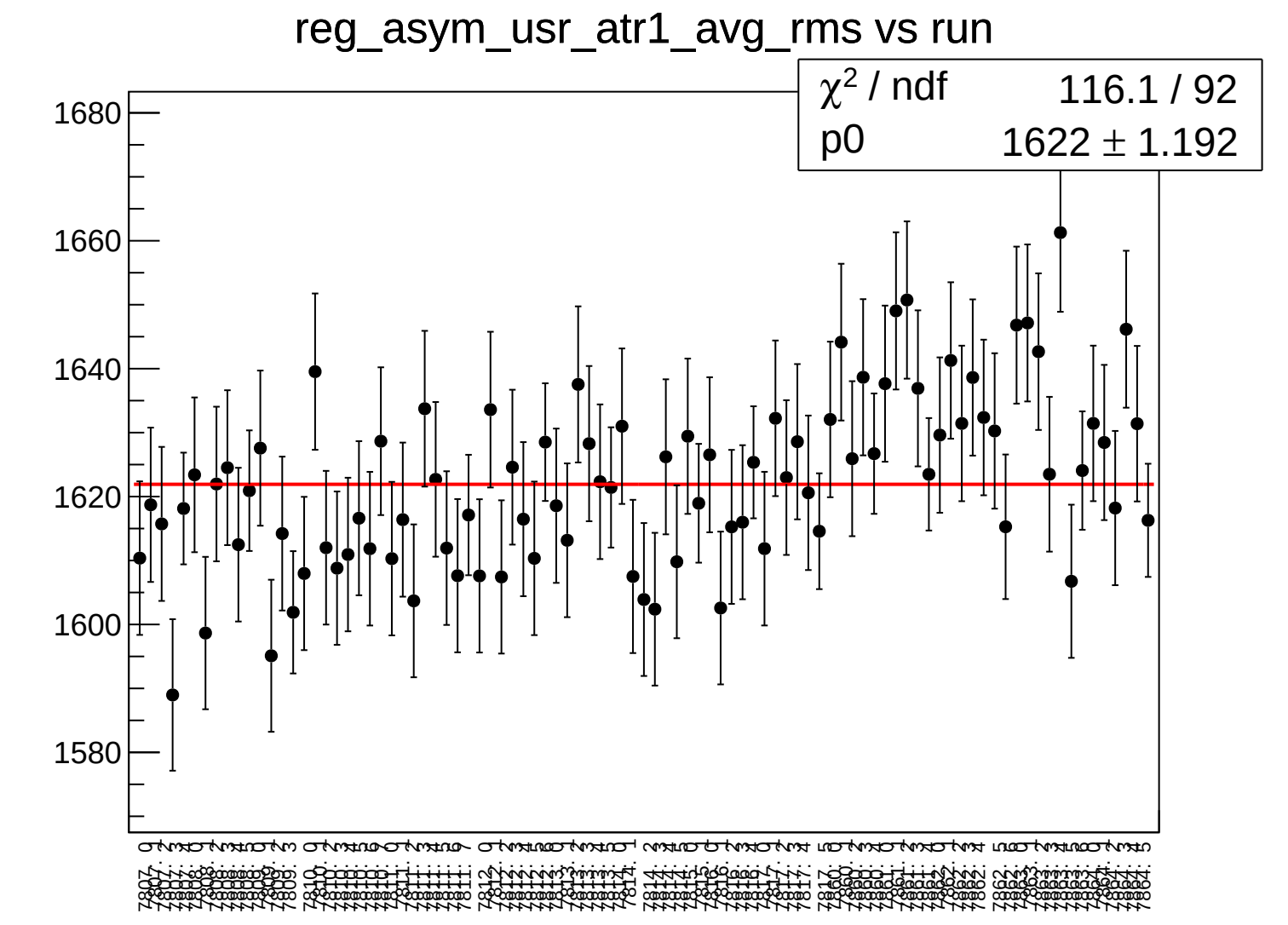

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 88.42 / 92
p0 −1.743e−13 ± 4.244e−13
40
20
0
−20
−40
−60
pull
Entries 93
Mean 1.199
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

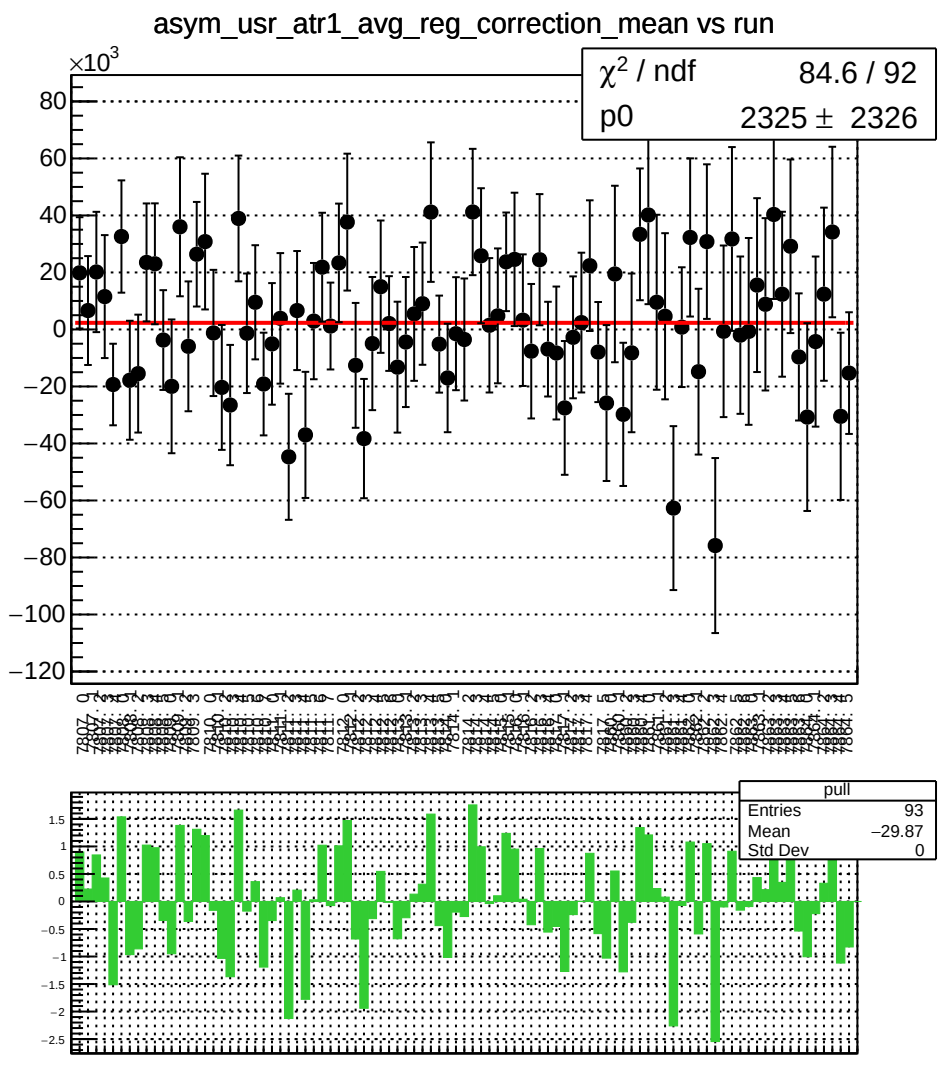

pull1D
Entries 93
Mean −0.1034
Std Dev 0.9696
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

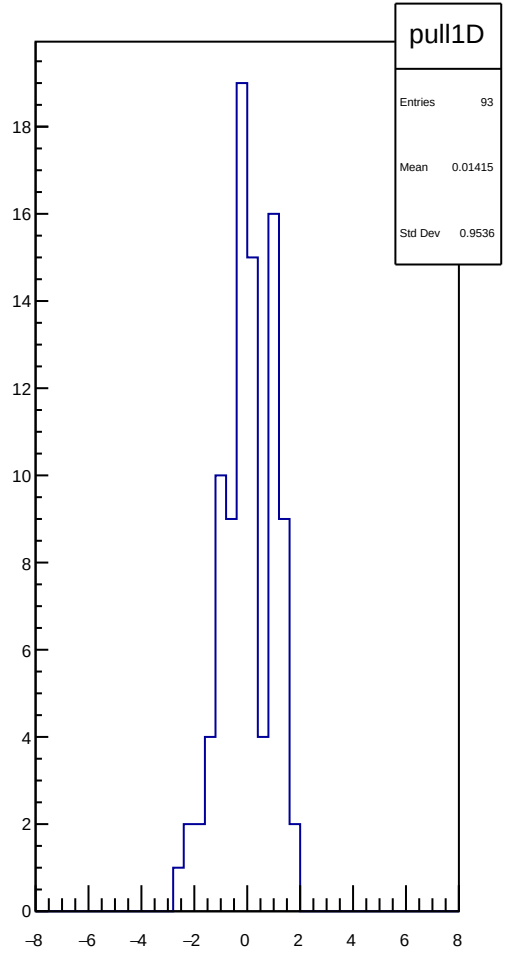

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.61e+05 / 92
p0 2.987e−10 ± 3.001e−13
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

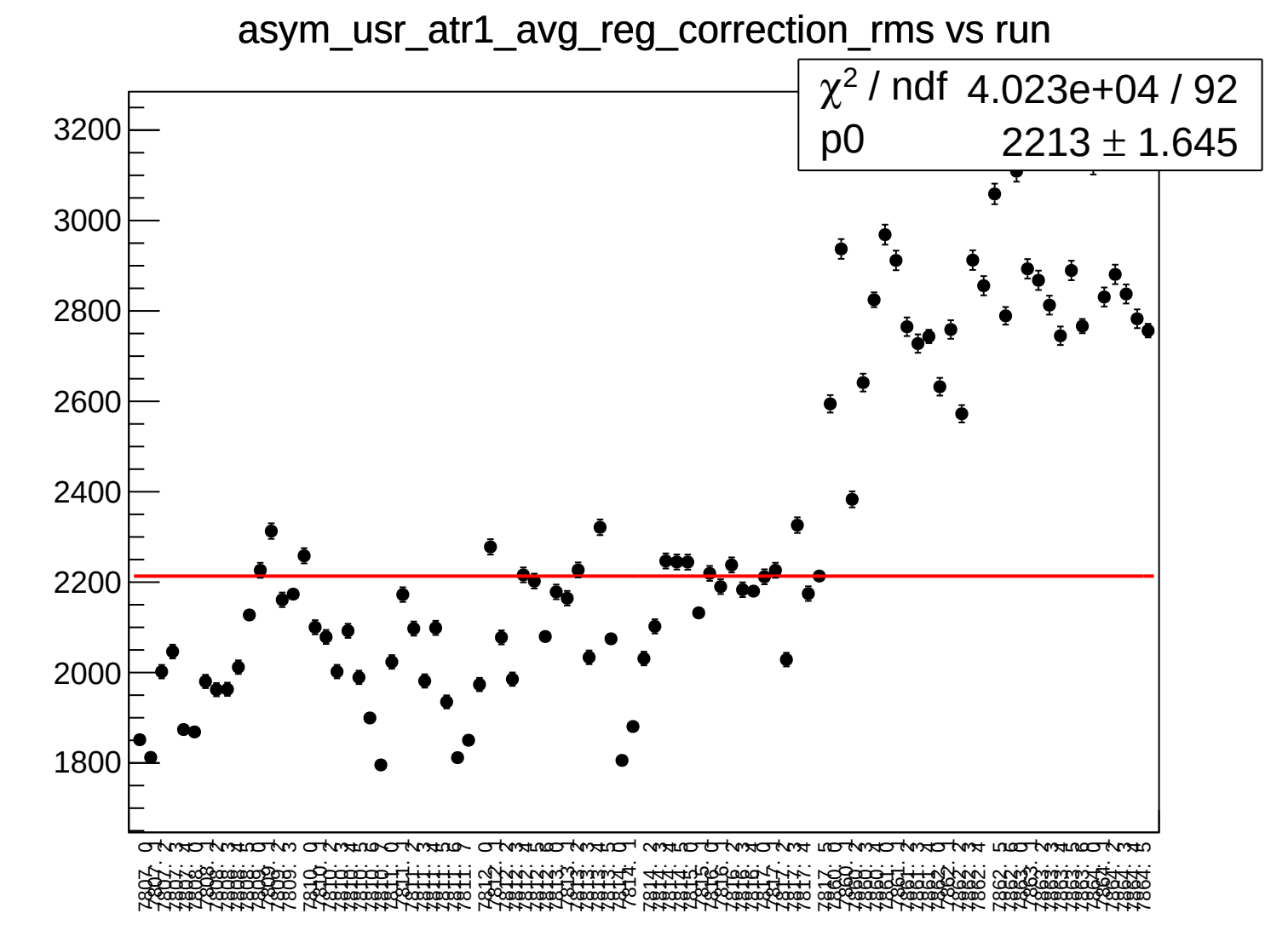

reg_asym_usr_atr1_avg_mean vs run
χ² / ndf 79.9 / 92
p0 −2191 ± 1686
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 507.4
Std Dev 0
3
2
1
0
−1
−2

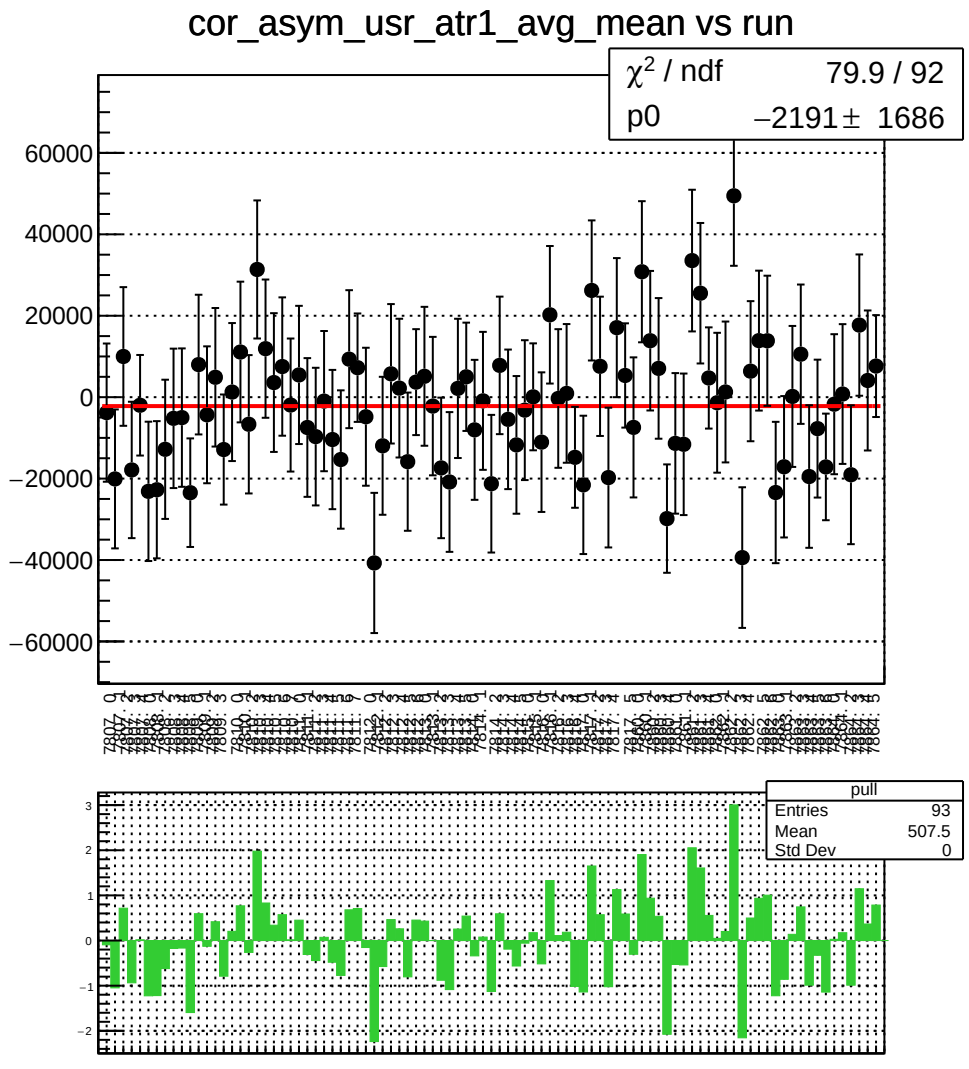

pull1D
Entries 93
Mean 0.007732
Std Dev 0.9269
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

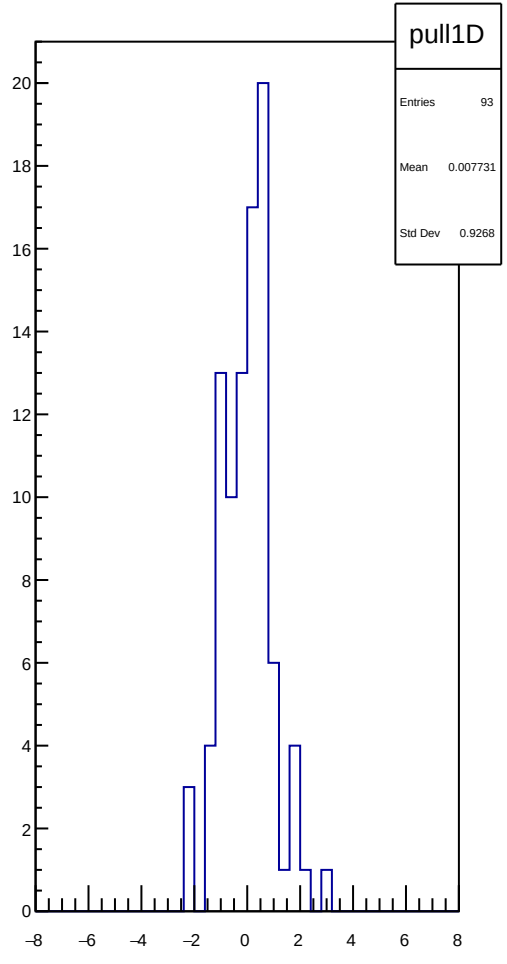

reg_asym_usr_atr1_avg_rms vs run
χ² / ndf 116.1 / 92
p0 1622 ± 1.192
1680
1660
1640
1620
1600
1580

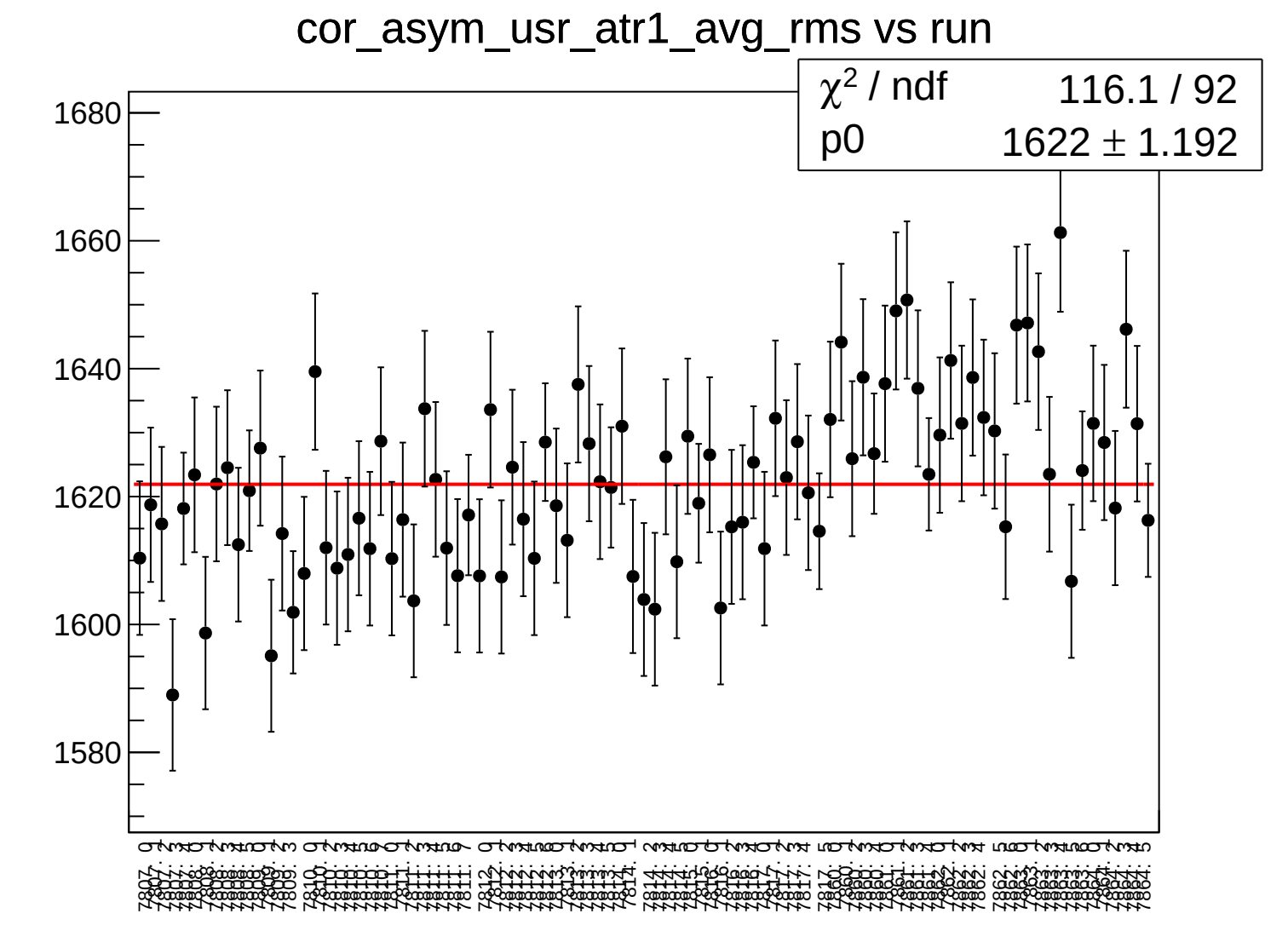

asym_usr_atr1_avg_reg_correction_mean vs run
×10^3
χ² / ndf 84.6 / 92
p0 2325 ± 2326
pull
Entries 93
Mean −29.87
Std Dev 0

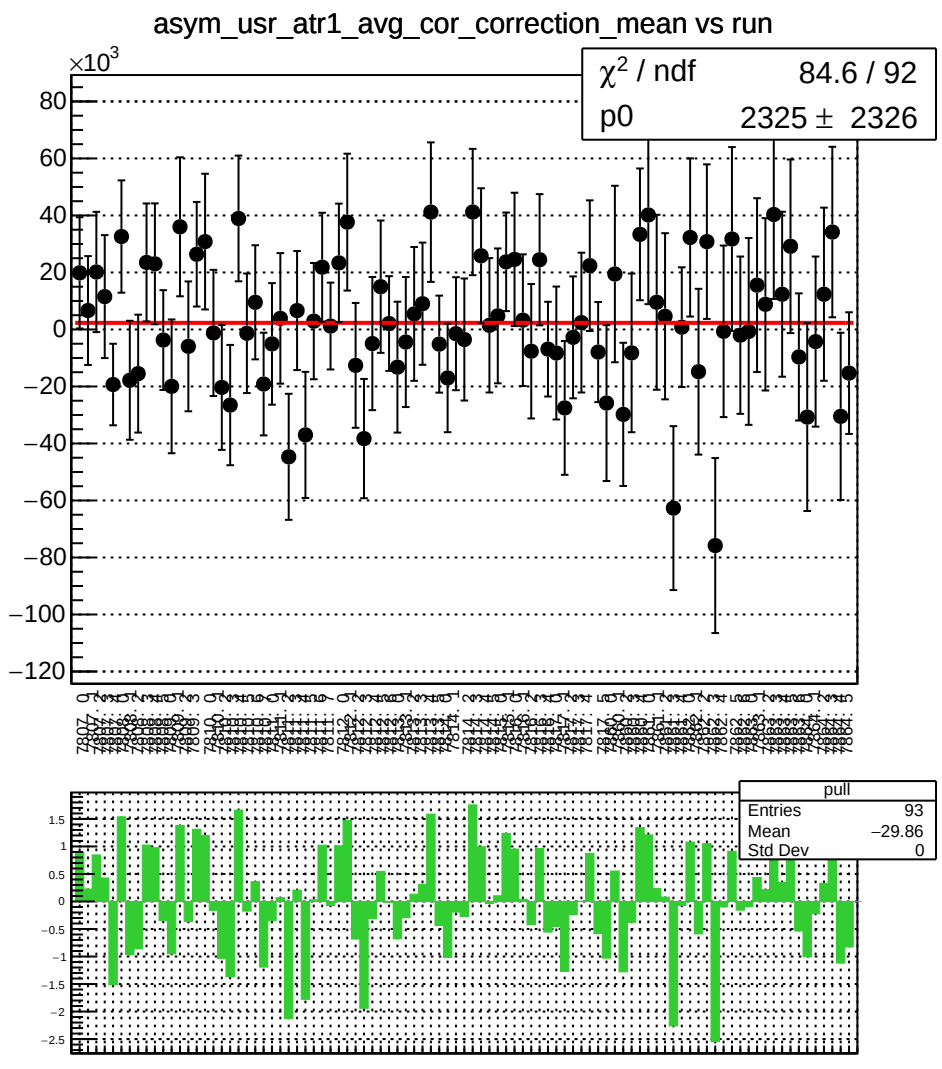

pull1D
Entries 93
Mean 0.01415
Std Dev 0.9536

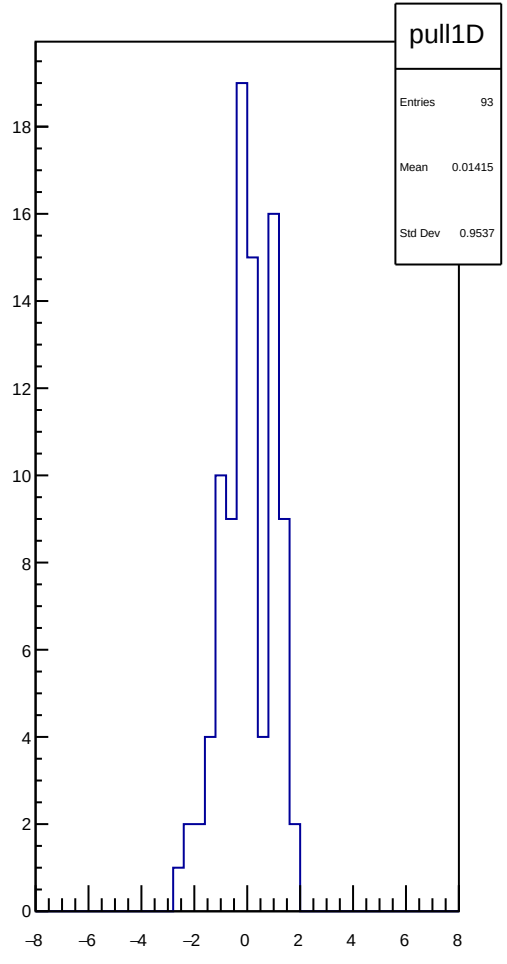

asym_usr_atr1_avg_reg_correction_rms vs run
χ² / ndf 4.023e+04 / 92
p0 2213 ± 1.645
3200
3000
2800
2600
2400
2200
2000
1800

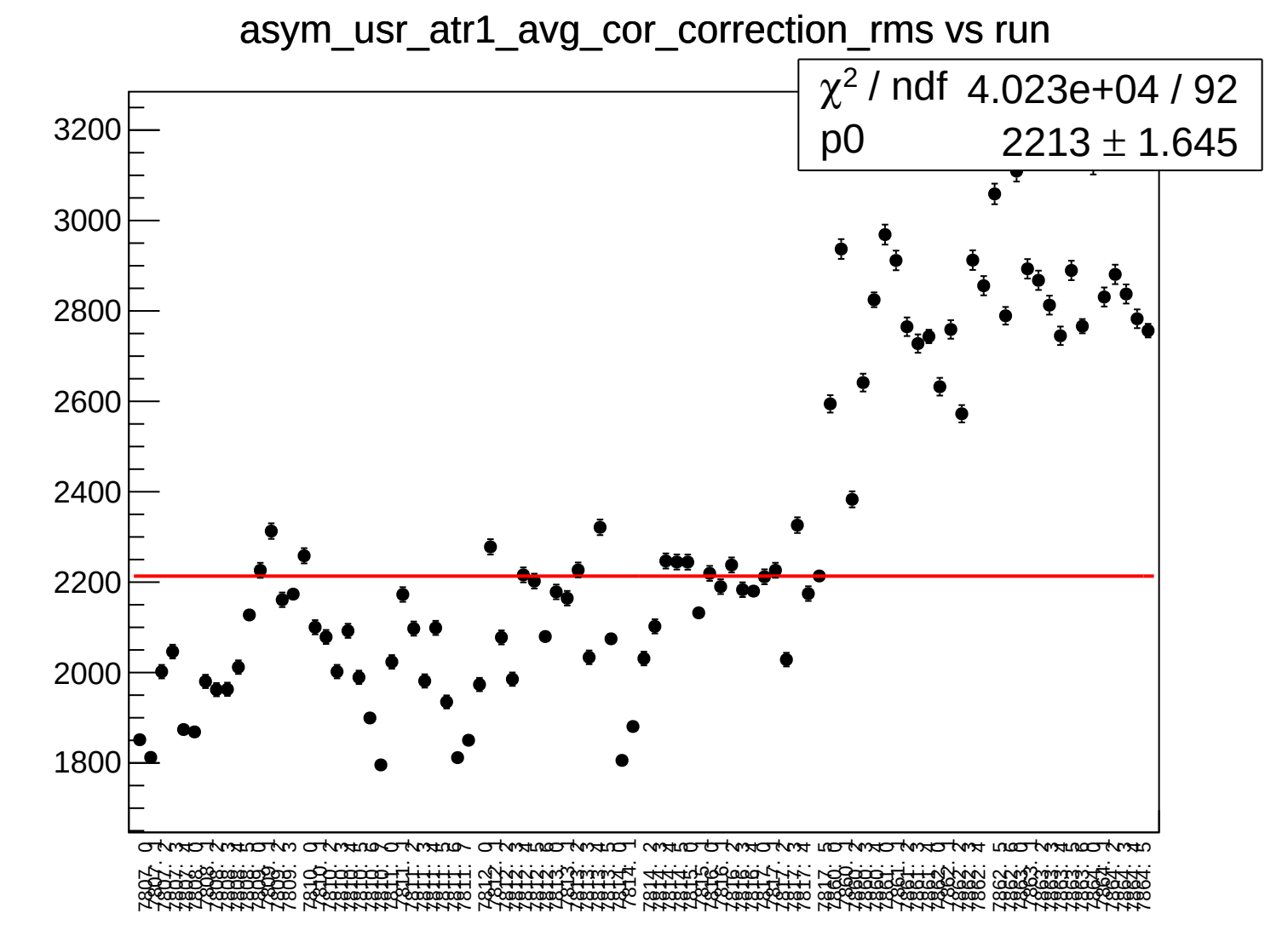

cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 79.9 / 92
p0 −2191 ± 1686
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 507.5
Std Dev 0
3
2
1
0
−1
−2

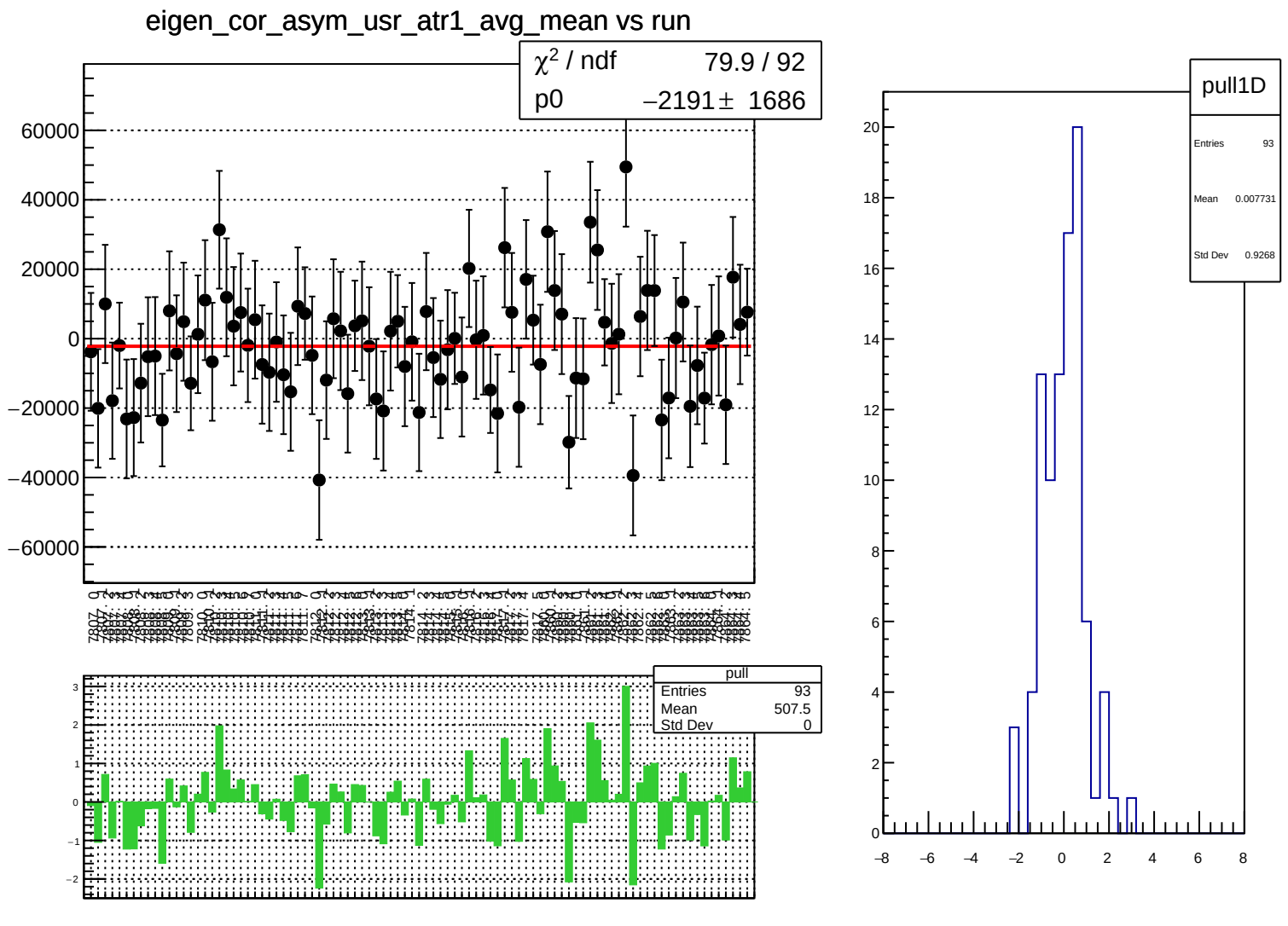

pull1D
Entries 93
Mean 0.007731
Std Dev 0.9268
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

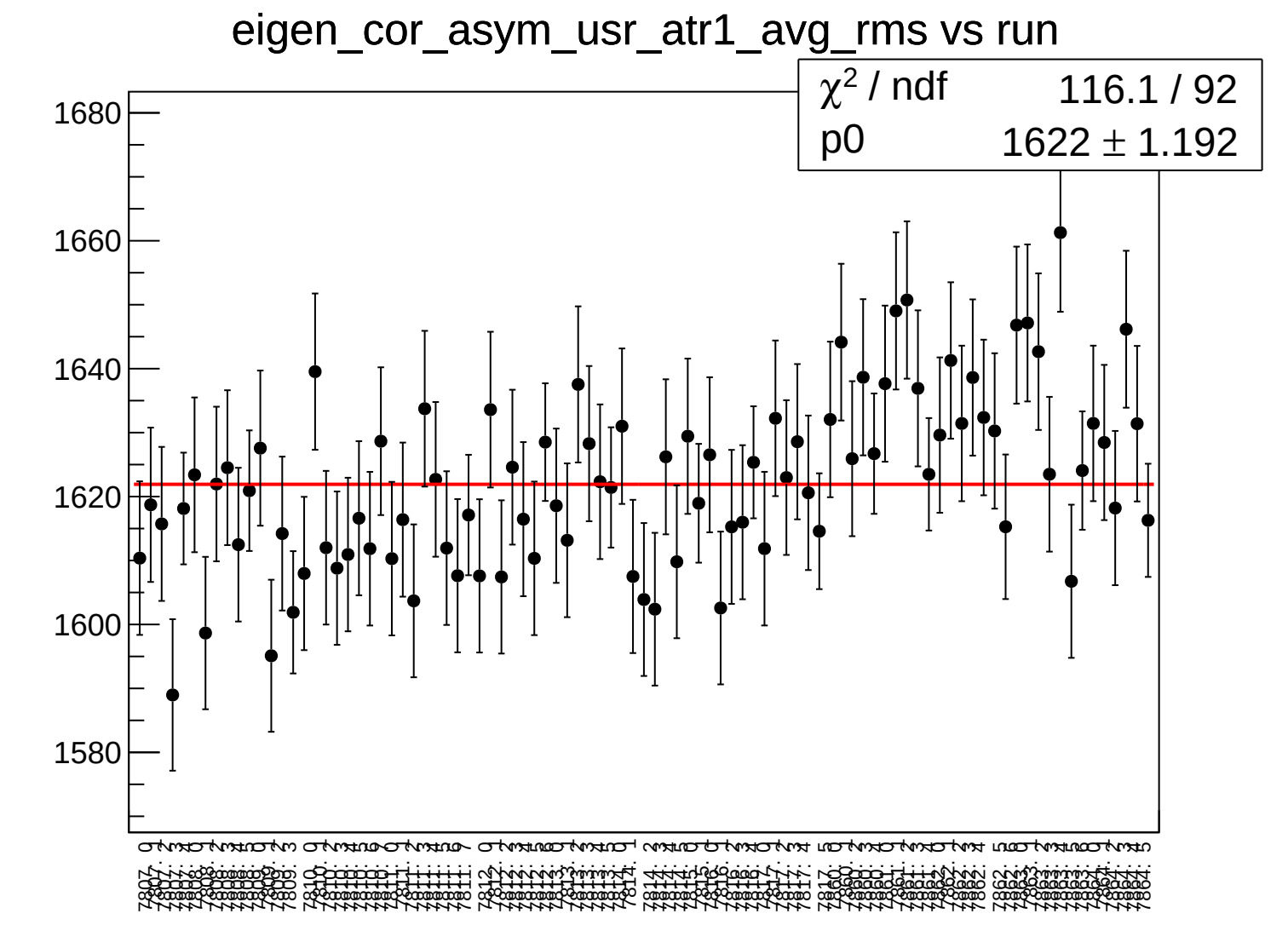

cor_asym_usr_atr1_avg_rms vs run
χ^2 / ndf 116.1 / 92
p0 1622 ± 1.192
1680
1660
1640
1620
1600
1580

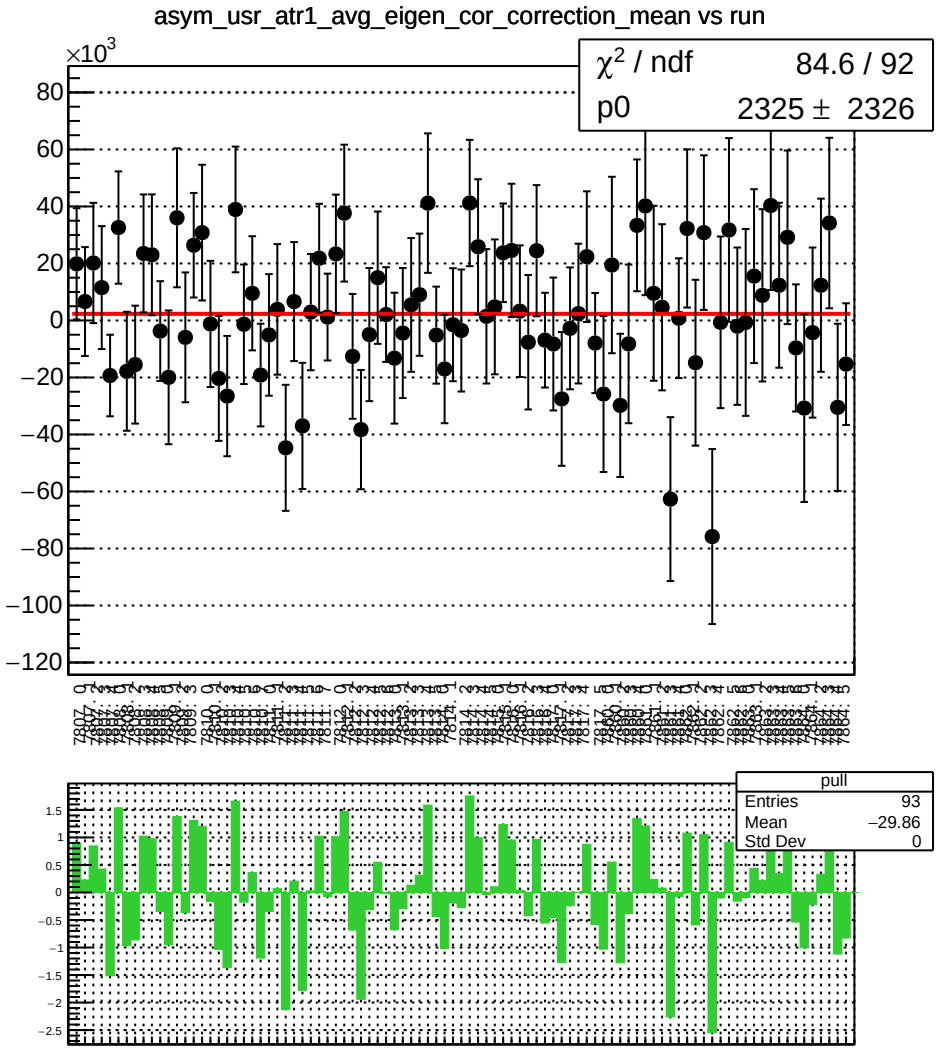

asym_usr_atr1_avg_cor_correction_mean vs run
×10^3
χ² / ndf 84.6 / 92
p0 2325 ± 2326
pull
Entries 93
Mean −29.86
Std Dev 0

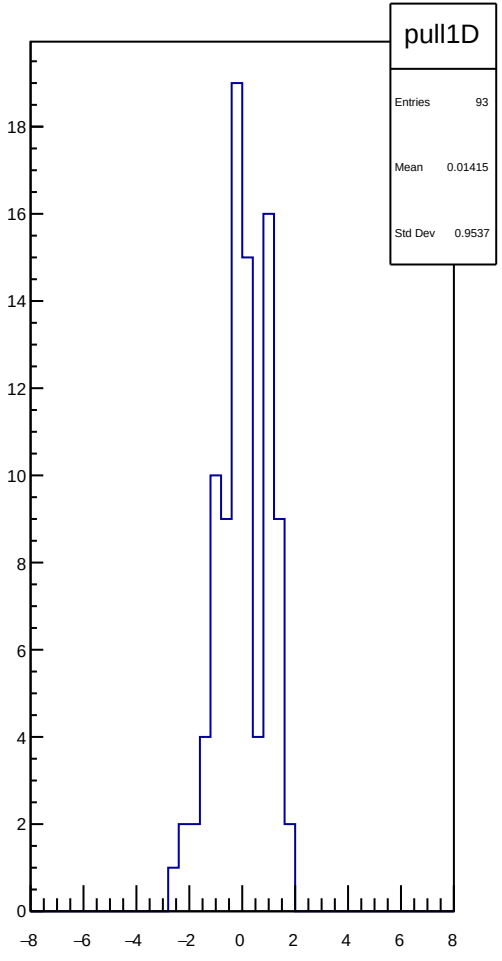

pull1D
Entries 93
Mean 0.01415
Std Dev 0.9537

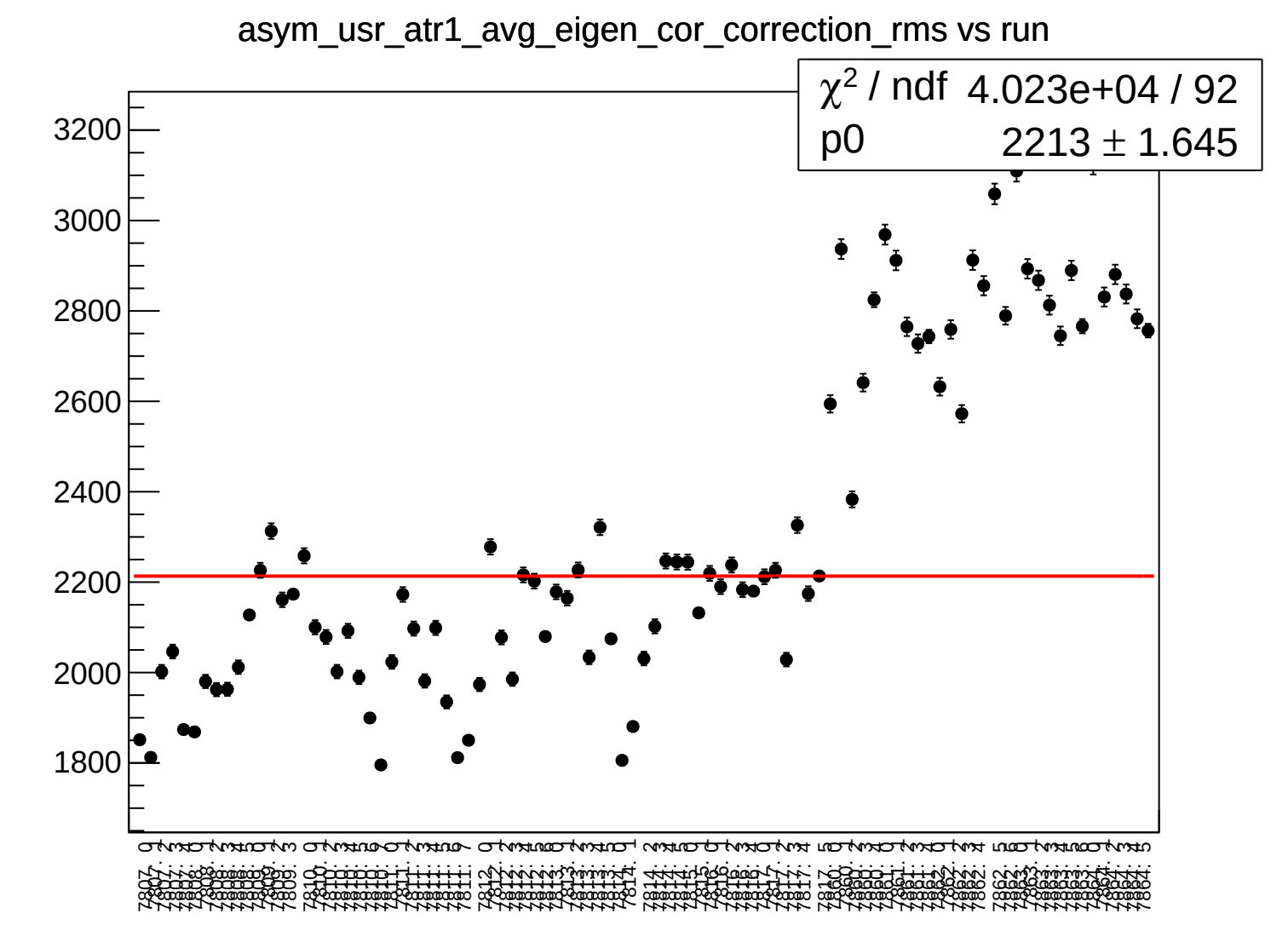

asym_usr_atr1_avg_cor_correction_rms vs run
χ² / ndf 4.023e+04 / 92
p0 2213 ± 1.645
3200
3000
2800
2600
2400
2200
2000
1800

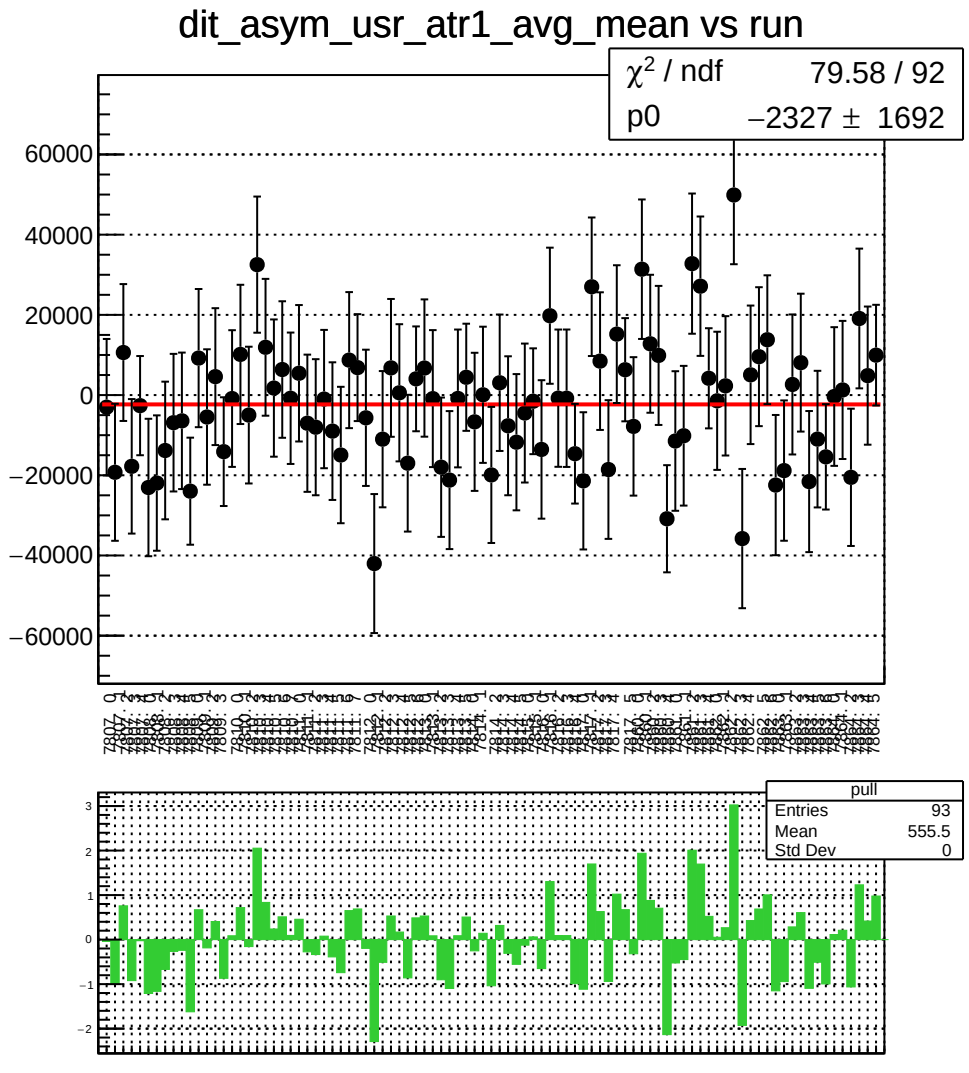

eigen_cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 79.9 / 92
p0 −2191 ± 1686
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 507.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.007731
Std Dev 0.9268
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

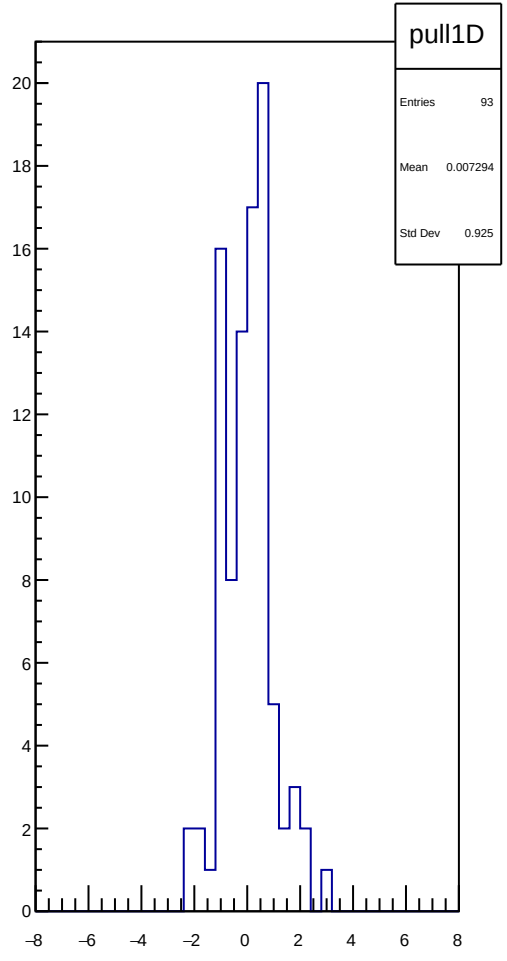

eigen_cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 116.1 / 92
p0 1622 ± 1.192
1680
1660
1640
1620
1600
1580

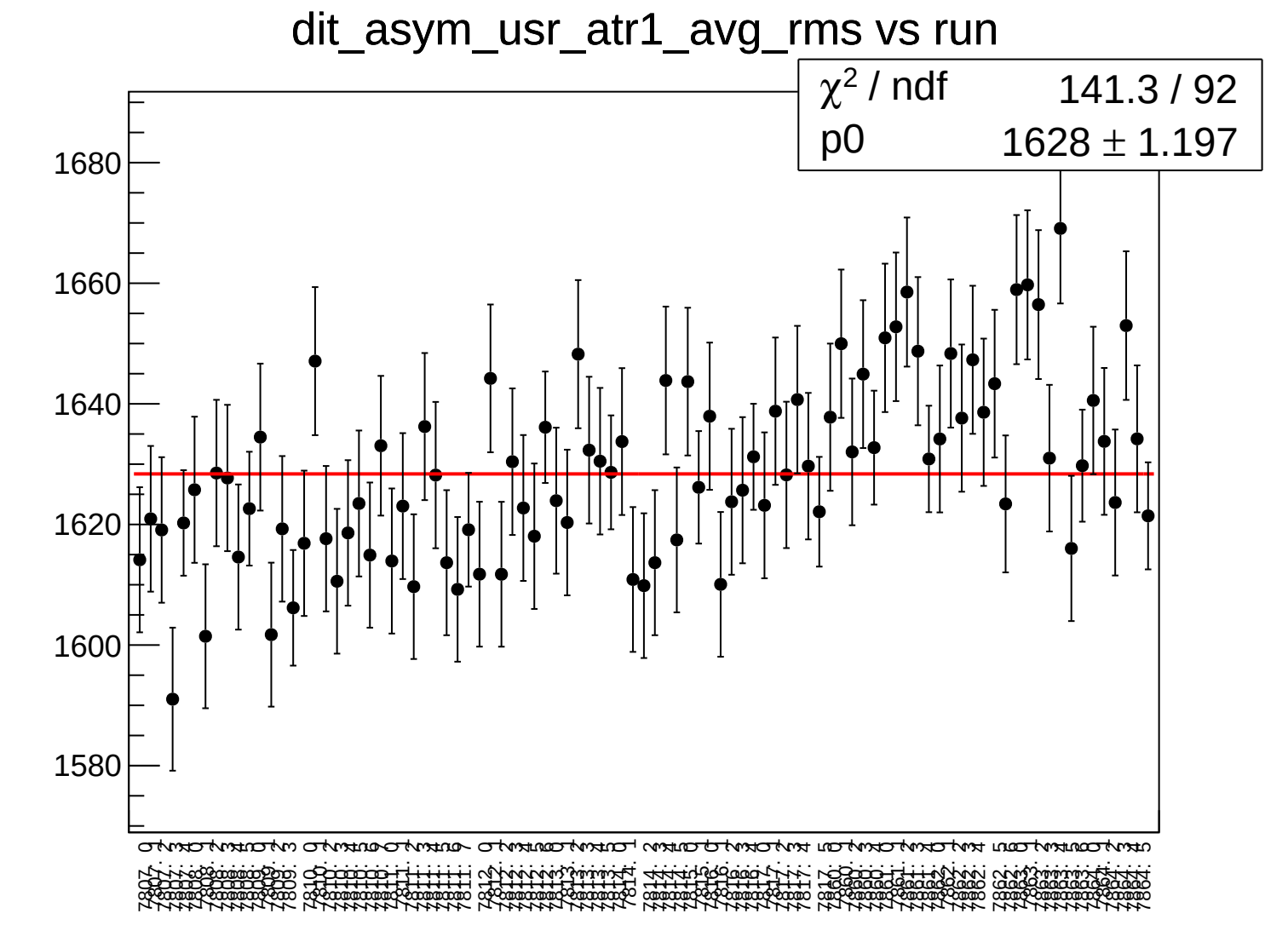

asym_usr_atr1_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 84.6 / 92
p0 2325 ± 2326
pull
Entries 93
Mean −29.86
Std Dev 0

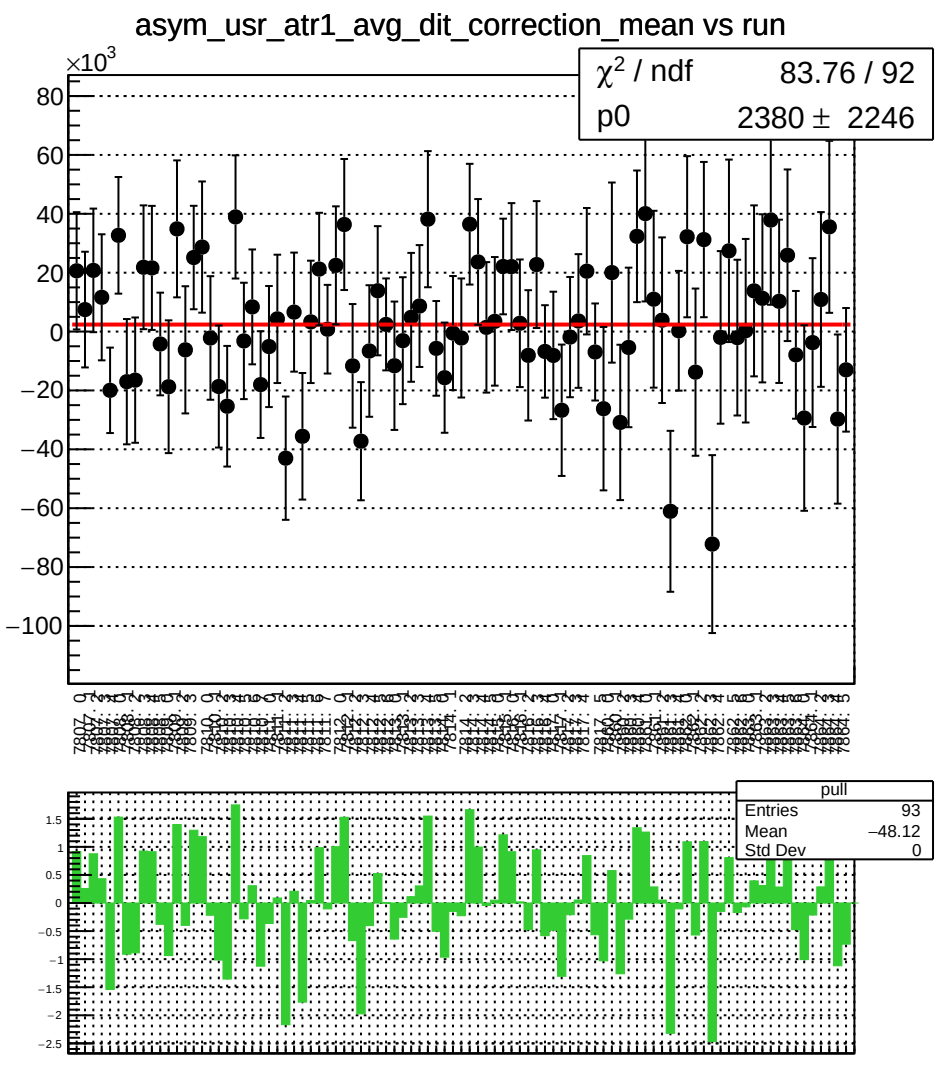

pull1D
Entries 93
Mean 0.01415
Std Dev 0.9537

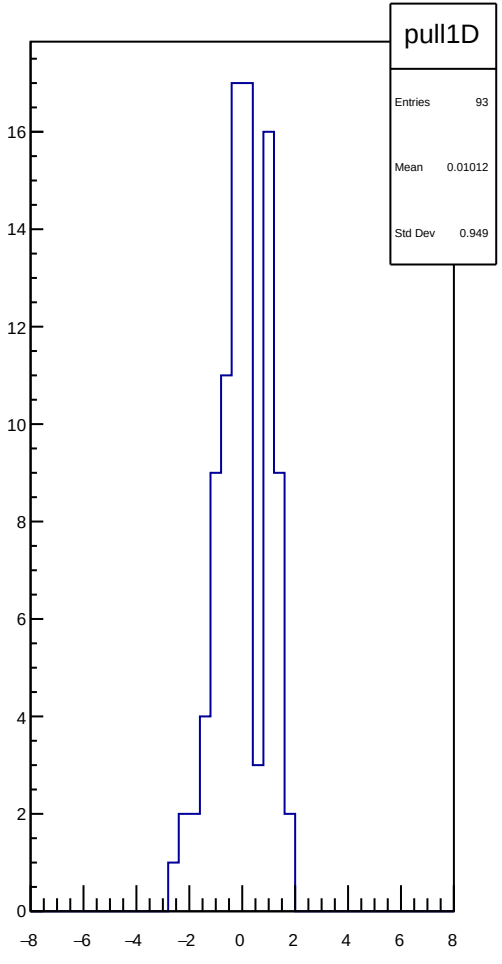

asym_usr_atr1_avg_eigen_cor_correction_rms vs run
χ² / ndf 4.023e+04 / 92
p0 2213 ± 1.645
3200
3000
2800
2600
2400
2200
2000
1800

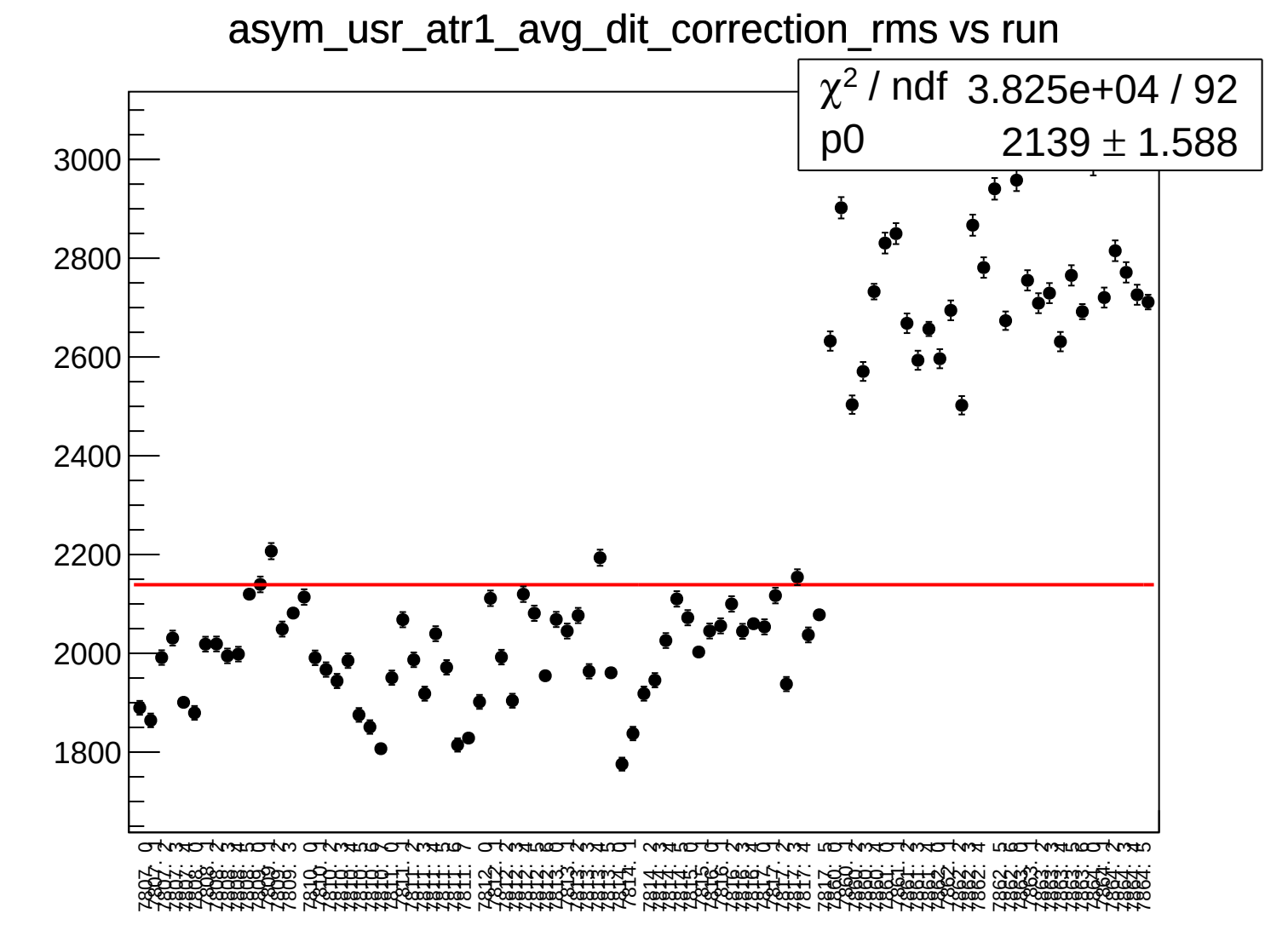

dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 79.58 / 92
p0 −2327 ± 1692
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 555.5
Std Dev 0
3
2
1
0
−1
−2

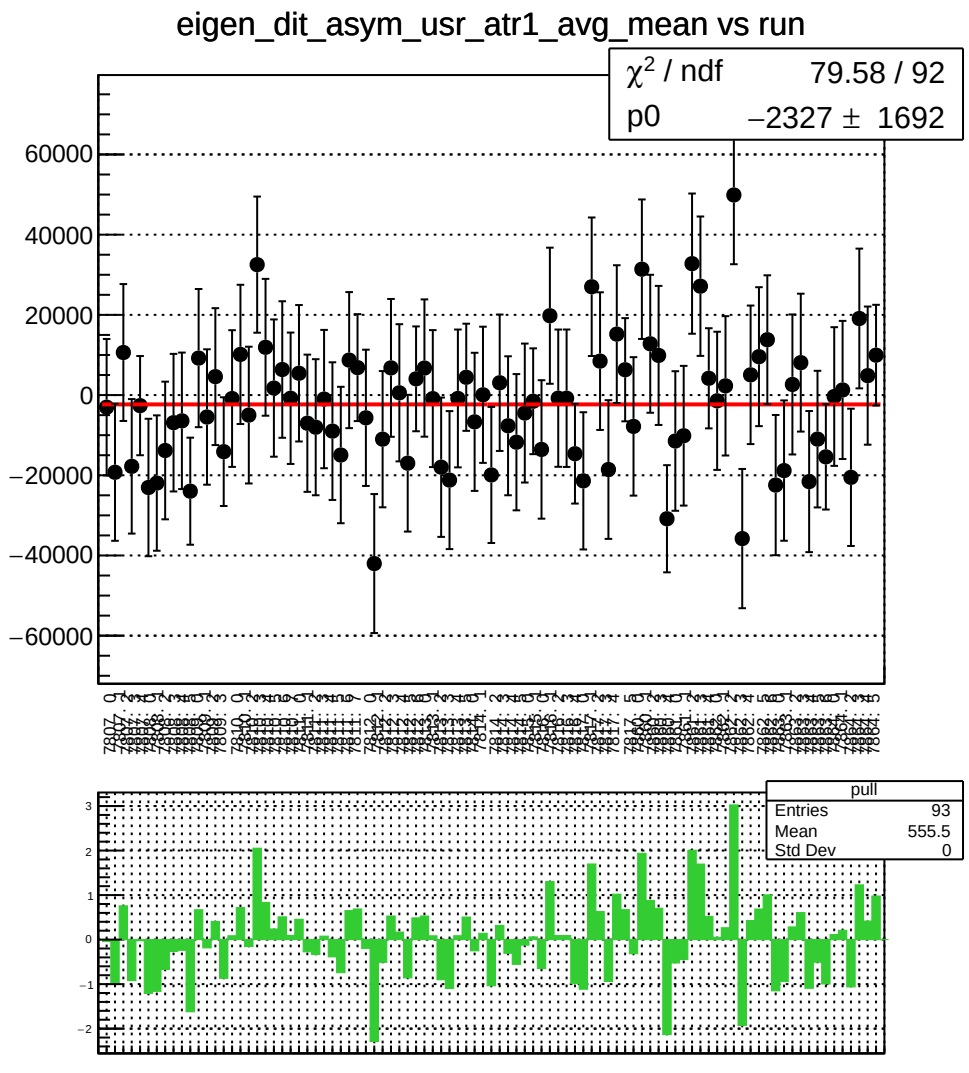

pull1D
Entries 93
Mean 0.007294
Std Dev 0.925
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

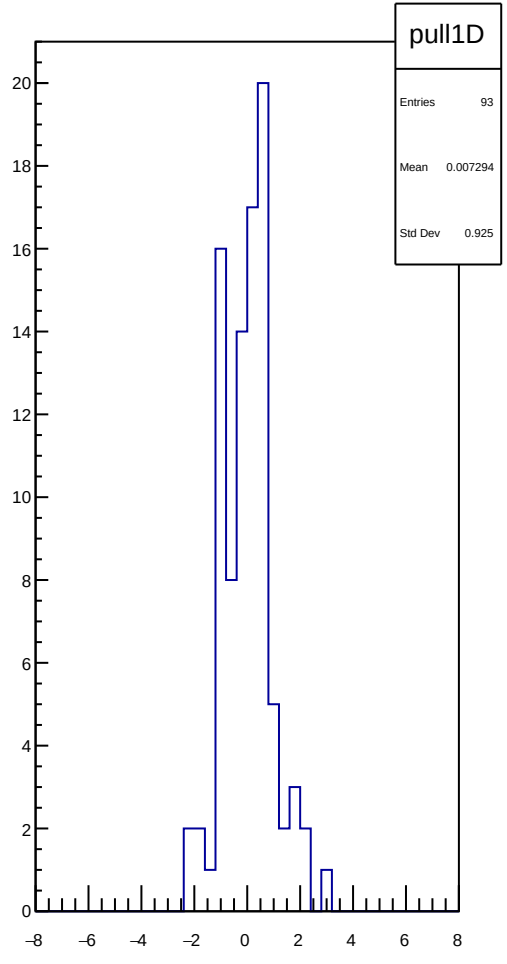

dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 141.3 / 92
p0 1628 ± 1.197
1680
1660
1640
1620
1600
1580

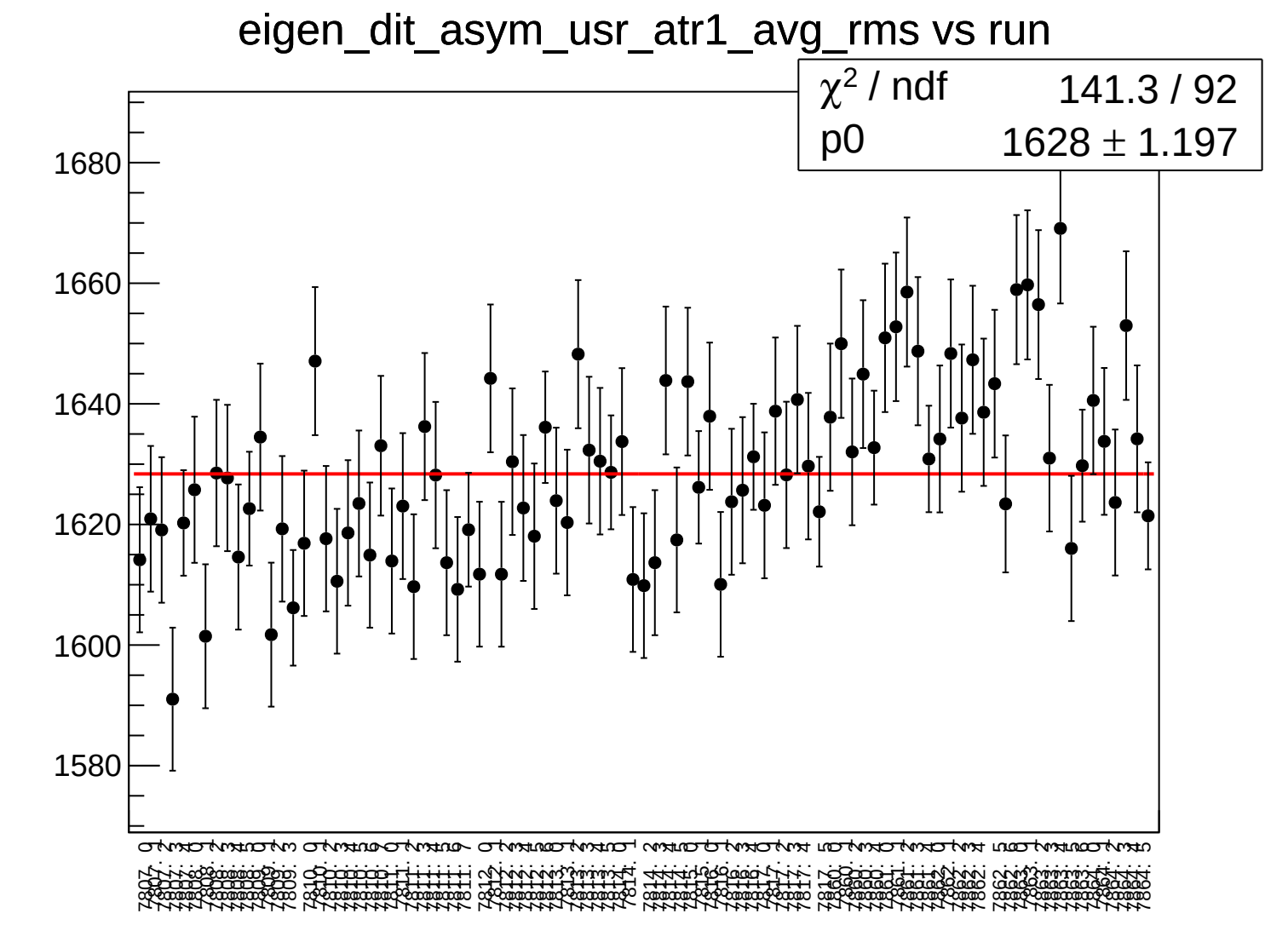

asym_usr_atr1_avg_dit_correction_mean vs run
×10^3
χ² / ndf 83.76 / 92
p0 2380 ± 2246
pull
Entries 93
Mean −48.12
Std Dev 0

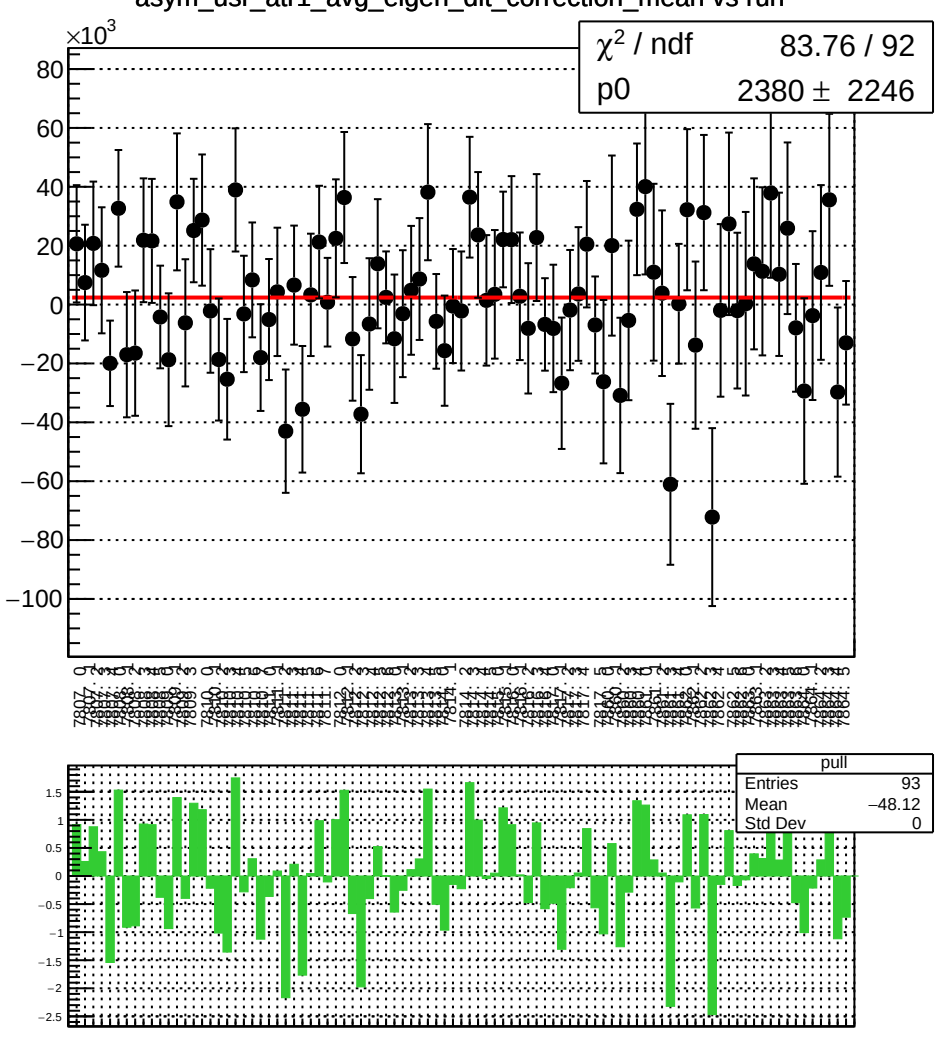

pull1D
Entries 93
Mean 0.01012
Std Dev 0.949

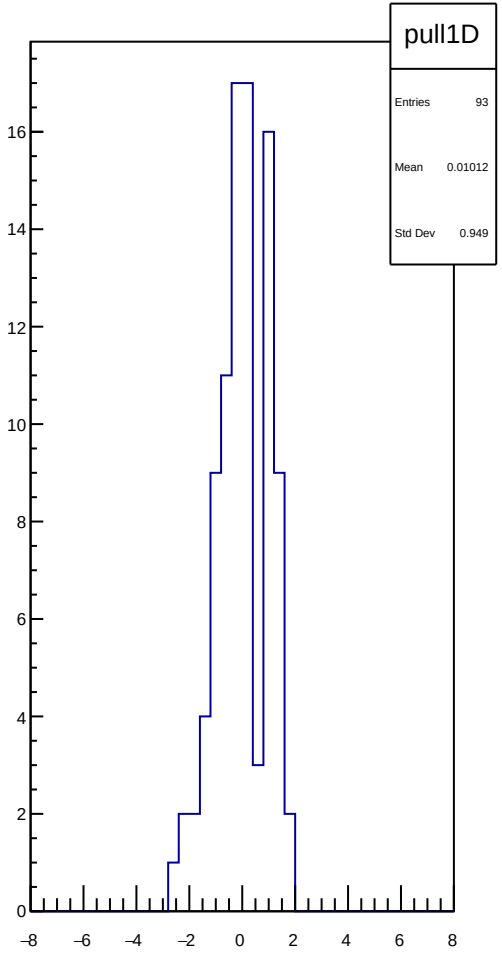

asym_usr_atr1_avg_dit_correction_rms vs run
χ^2 / ndf 3.825e+04 / 92
p0 2139 ± 1.588
3000
2800
2600
2400
2200
2000
1800

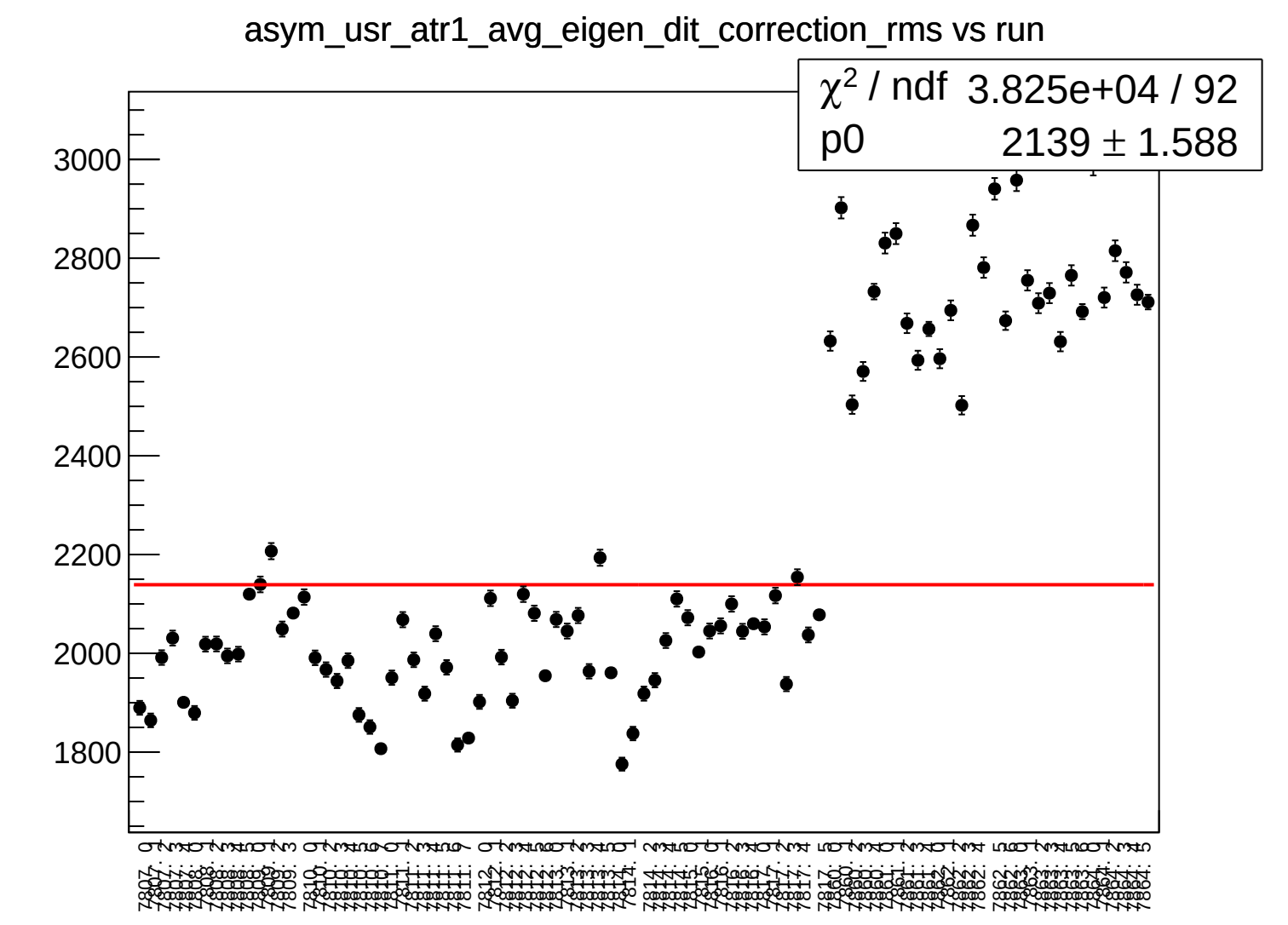

eigen_dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 79.58 / 92
p0 −2327 ± 1692
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 555.5
Std Dev 0
3
2
1
0
−1
−2

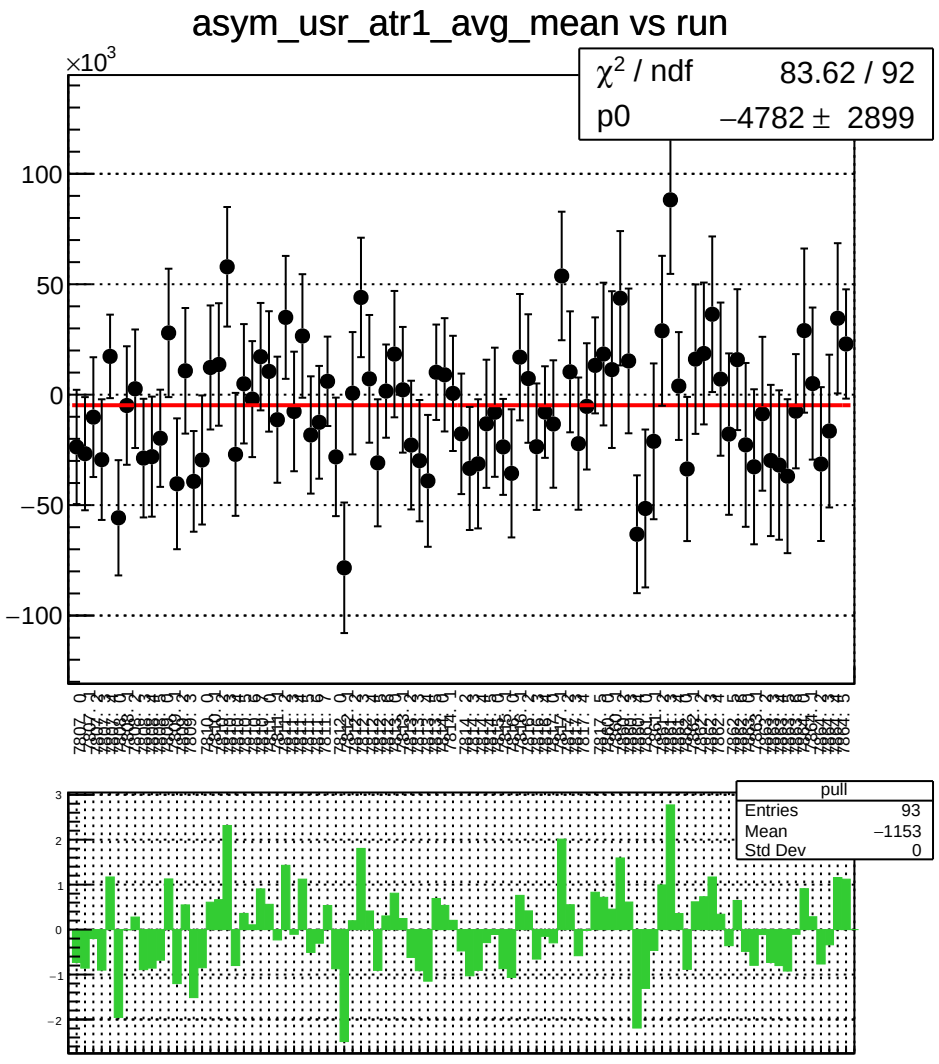

pull1D
Entries 93
Mean 0.007294
Std Dev 0.925
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

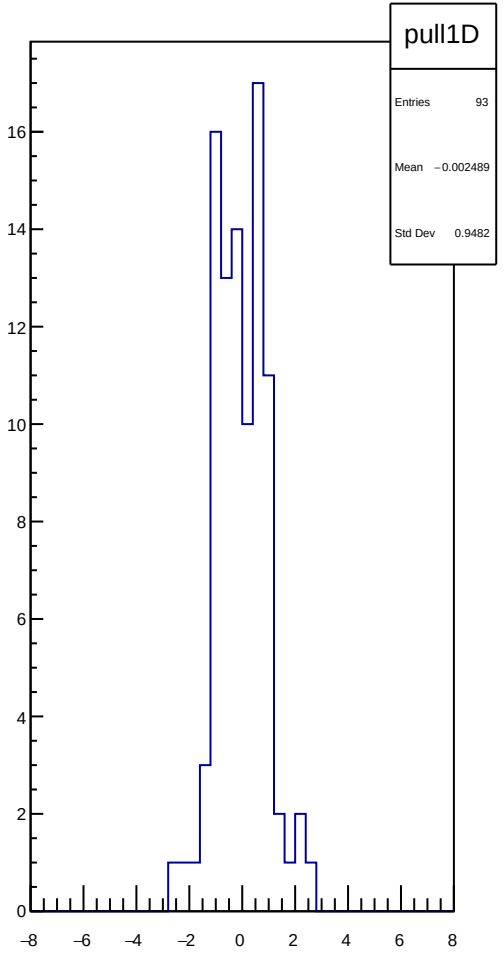

eigen_dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 141.3 / 92
p0 1628 ± 1.197
1680
1660
1640
1620
1600
1580

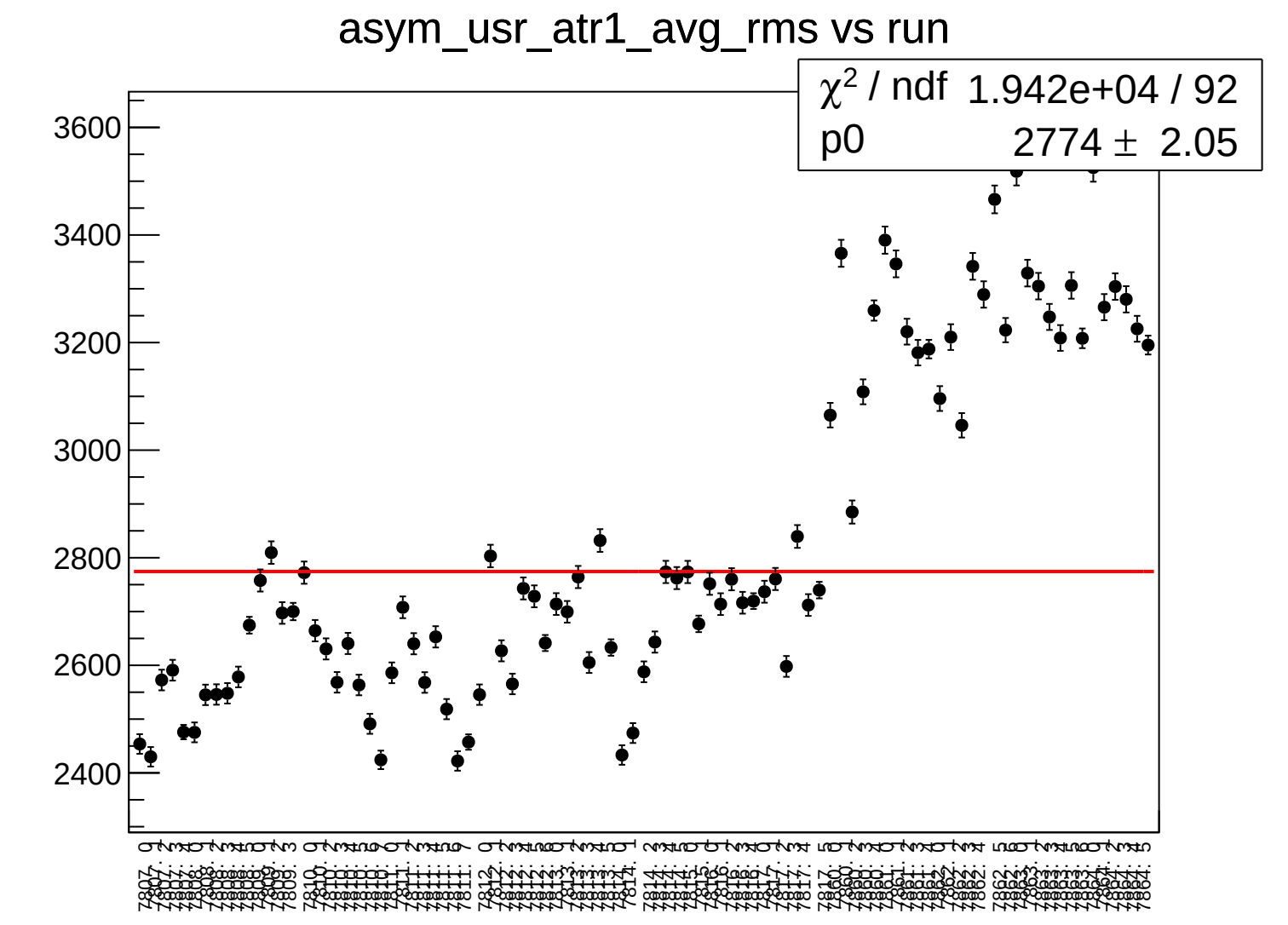

asym_usr_atr1_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 83.76 / 92
p0 2380 ± 2246
pull
Entries 93
Mean −48.12
Std Dev 0

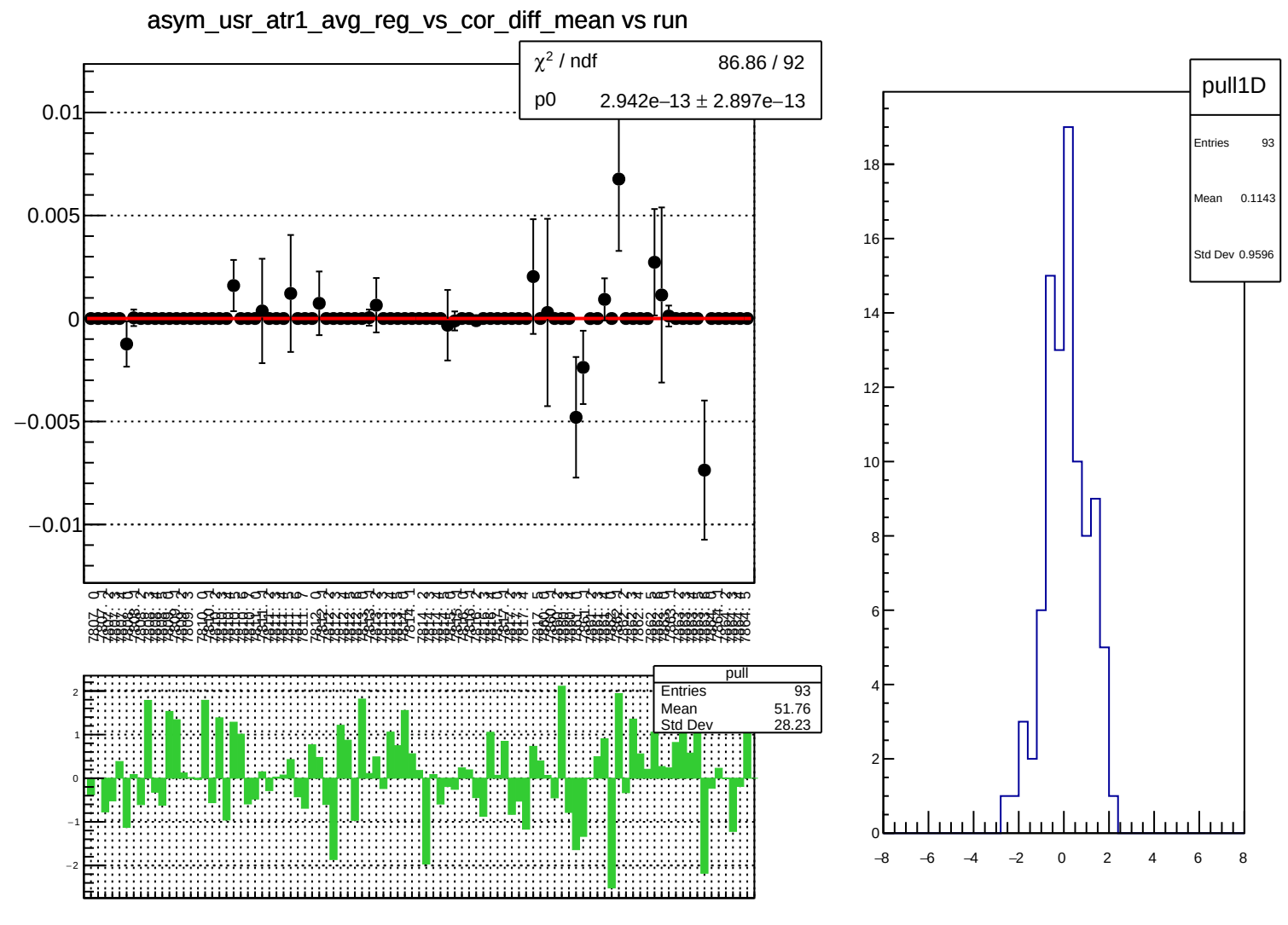

pull1D
Entries 93
Mean 0.01012
Std Dev 0.949

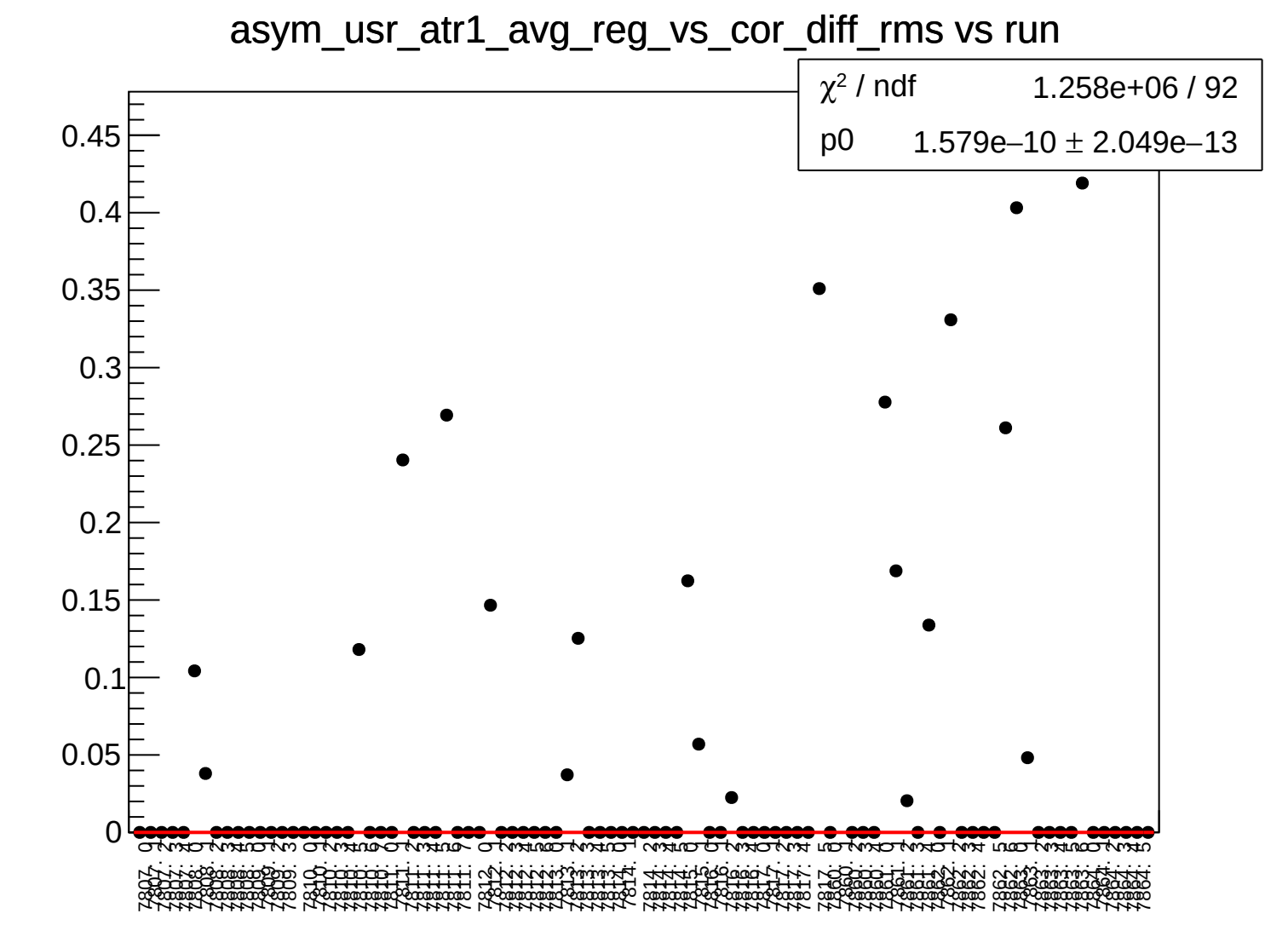

asym_usr_atr1_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.825e+04 / 92
p0 2139 ± 1.588
3000
2800
2600
2400
2200
2000
1800

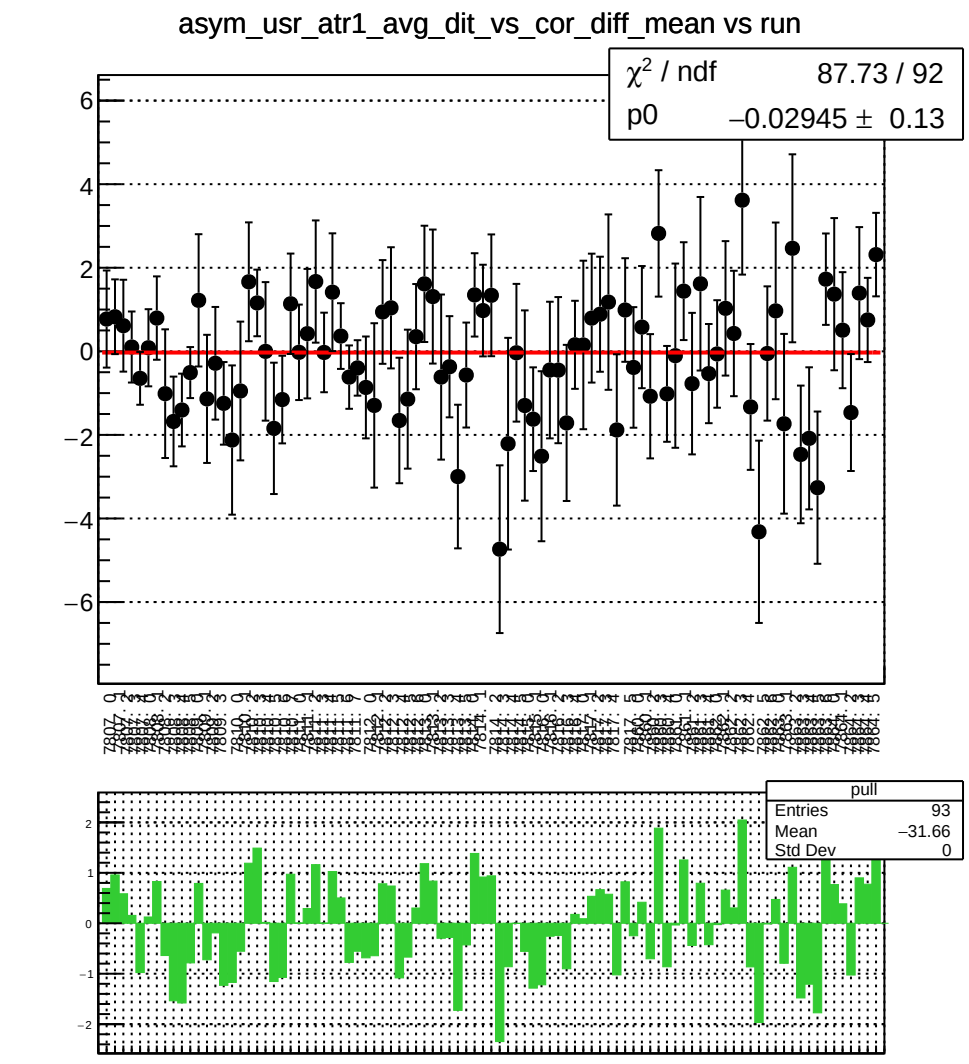

asym_usr_atr1_avg_mean vs run
×10^3
χ² / ndf 83.62 / 92
p0 −4782 ± 2899
100
50
0
−50
−100
pull
Entries 93
Mean −1153
Std Dev 0
3
2
1
0
−1
−2

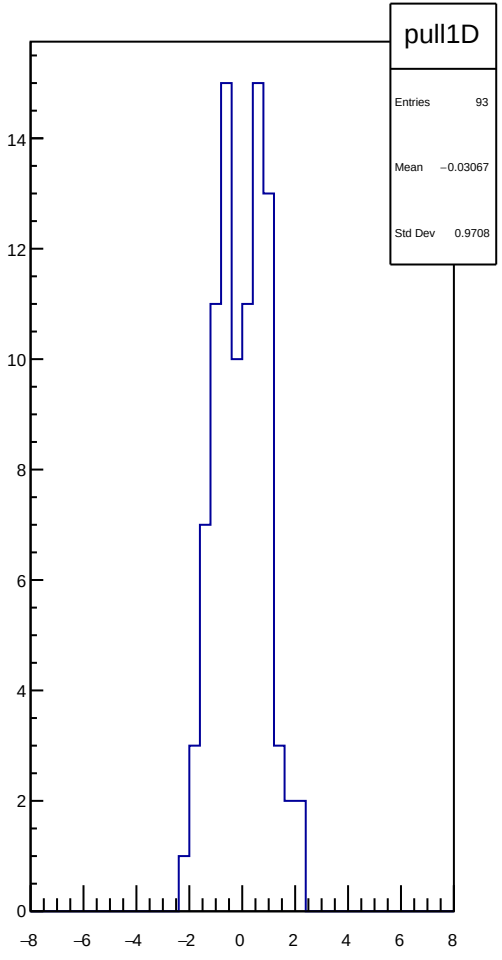

pull1D
Entries 93
Mean −0.002489
Std Dev 0.9482
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

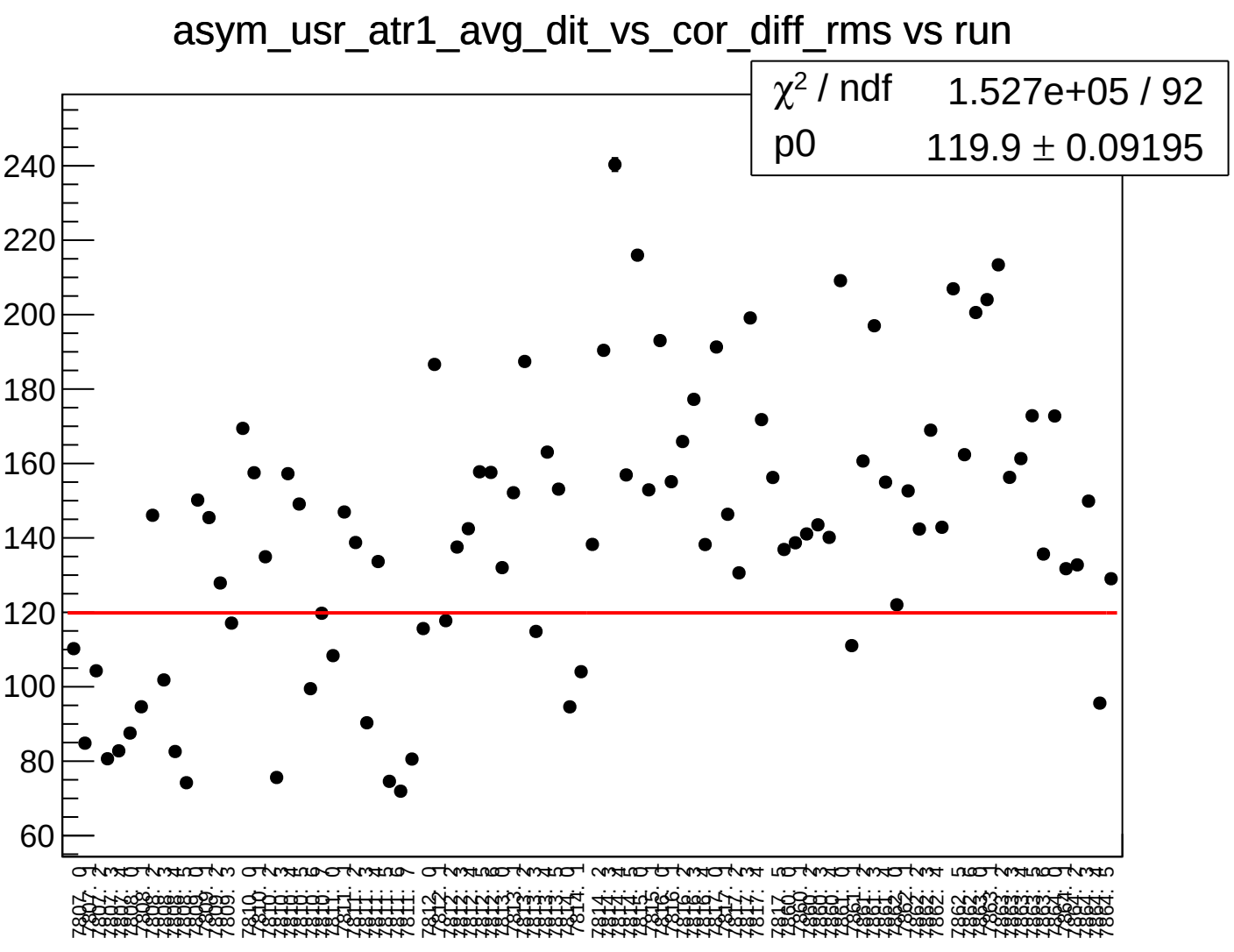

asym_usr_atr1_avg_rms vs run
χ² / ndf 1.942e+04 / 92
p0 2774 ± 2.05
3600
3400
3200
3000
2800
2600
2400

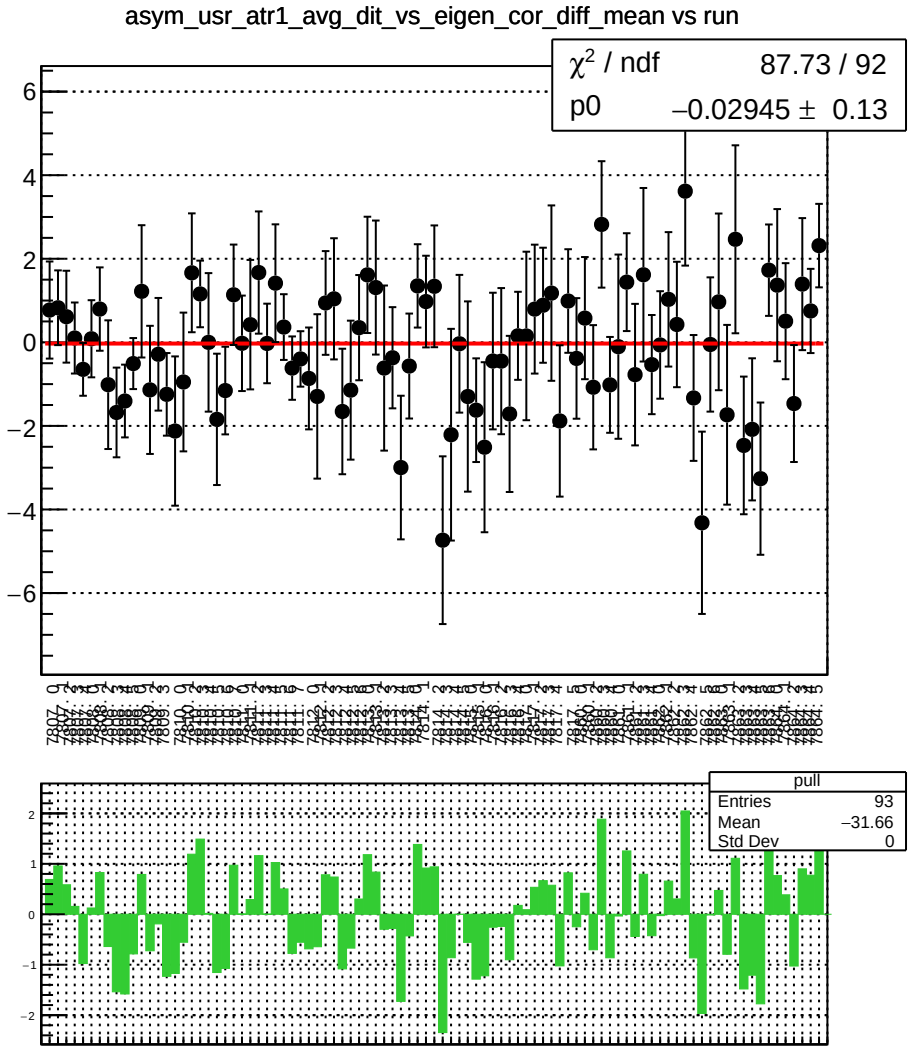

asym_usr_atr1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 86.86 / 92
p0 2.942e−13 ± 2.897e−13
0.01
0.005
0
−0.005
−0.01
pull
Entries 93
Mean 51.76
Std Dev 28.23
pull1D
Entries 93
Mean 0.1143
Std Dev 0.9596

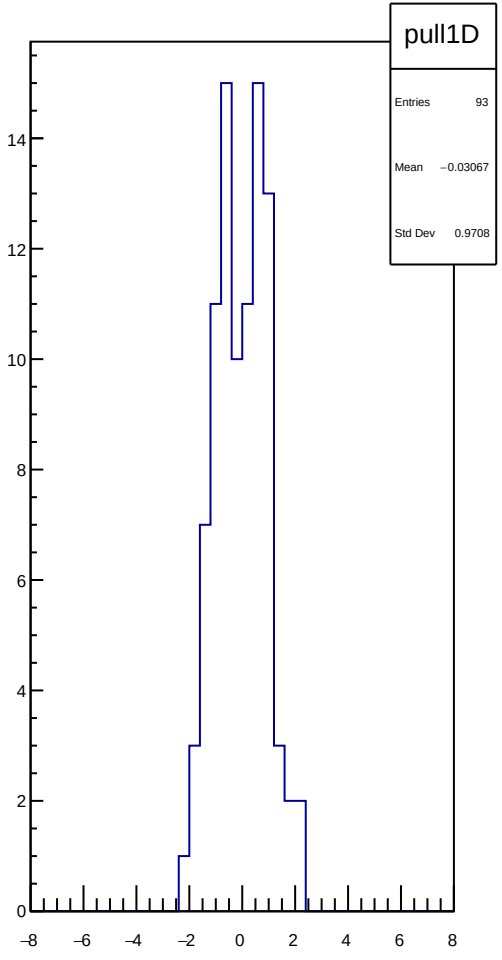

asym_usr_atr1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.258e+06 / 92
p0 1.579e−10 ± 2.049e−13
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0

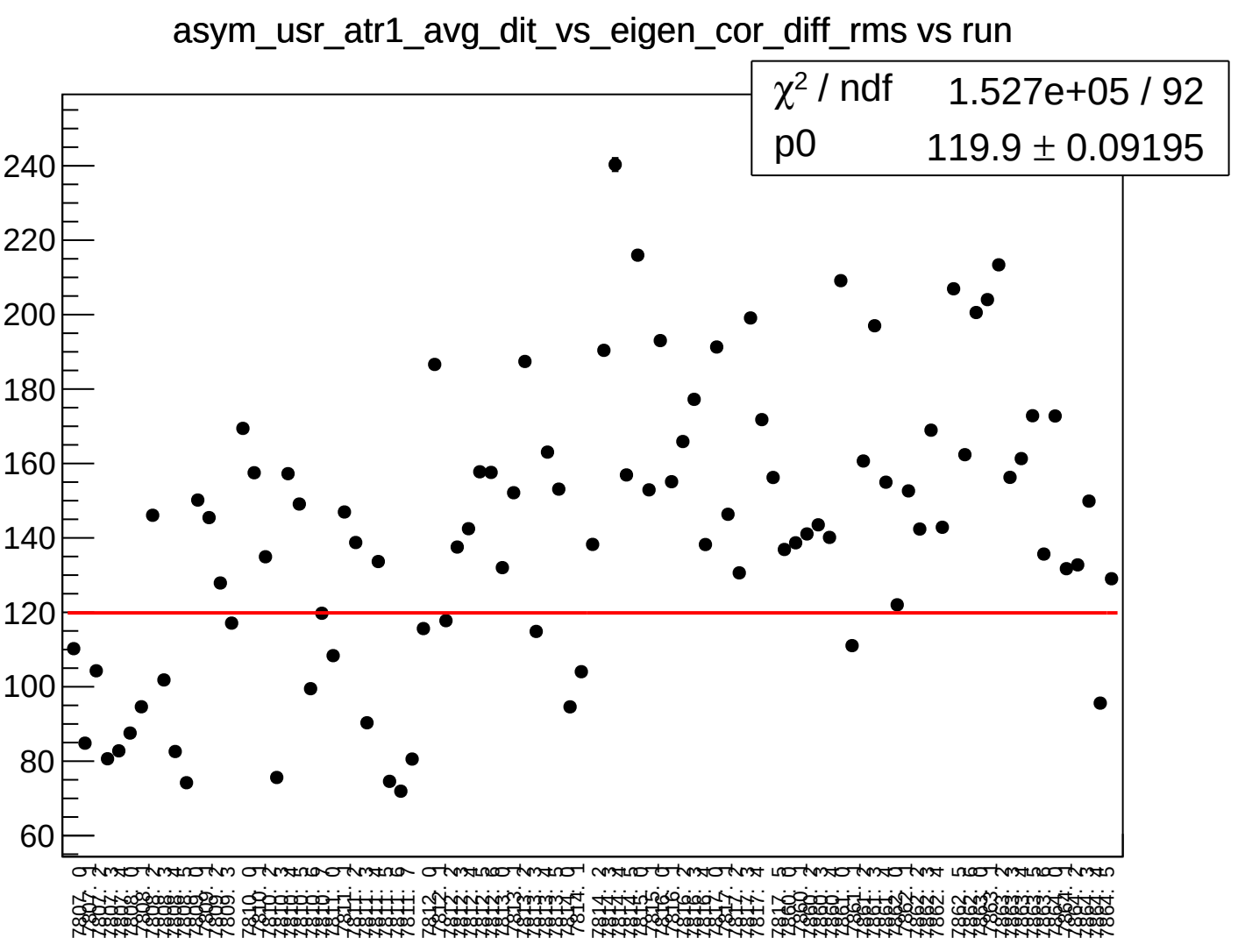

asym_usr_atr1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 87.73 / 92
p0 −0.02945 ± 0.13
pull
Entries 93
Mean −31.66
Std Dev 0

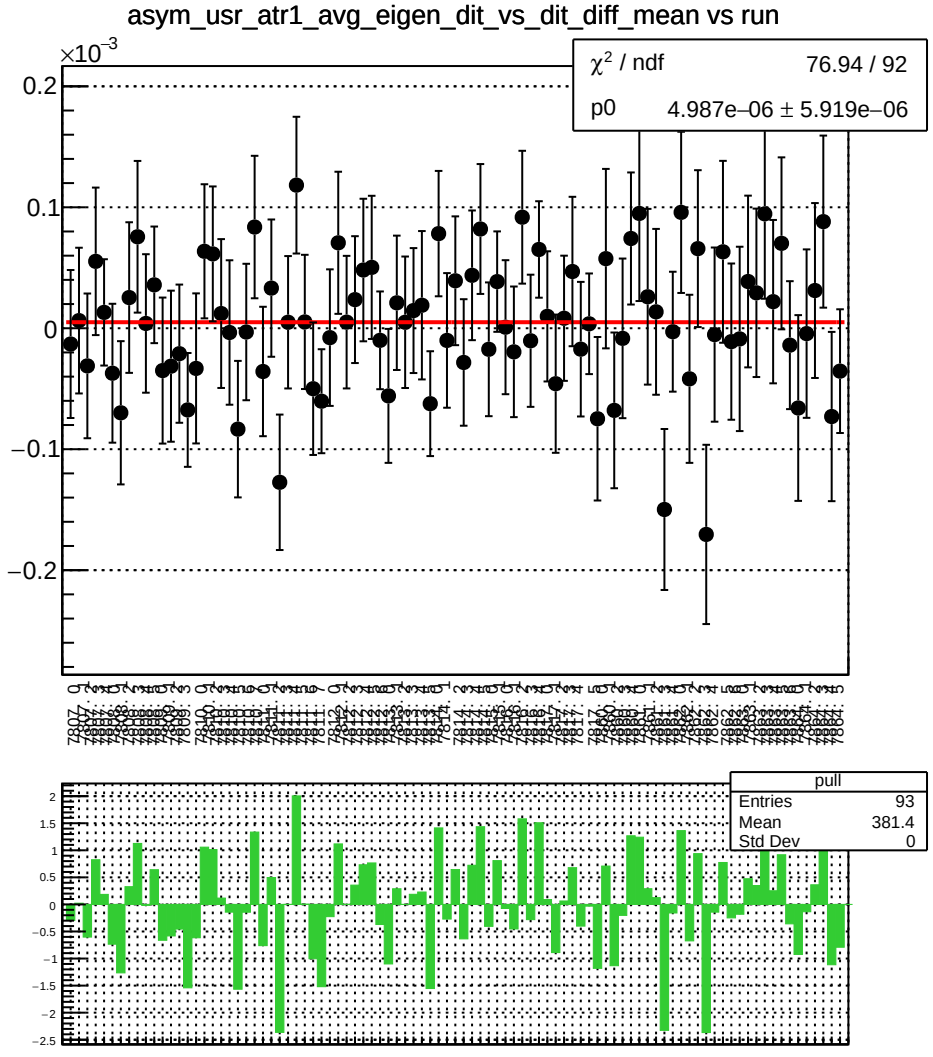

pull1D
Entries 93
Mean −0.03067
Std Dev 0.9708

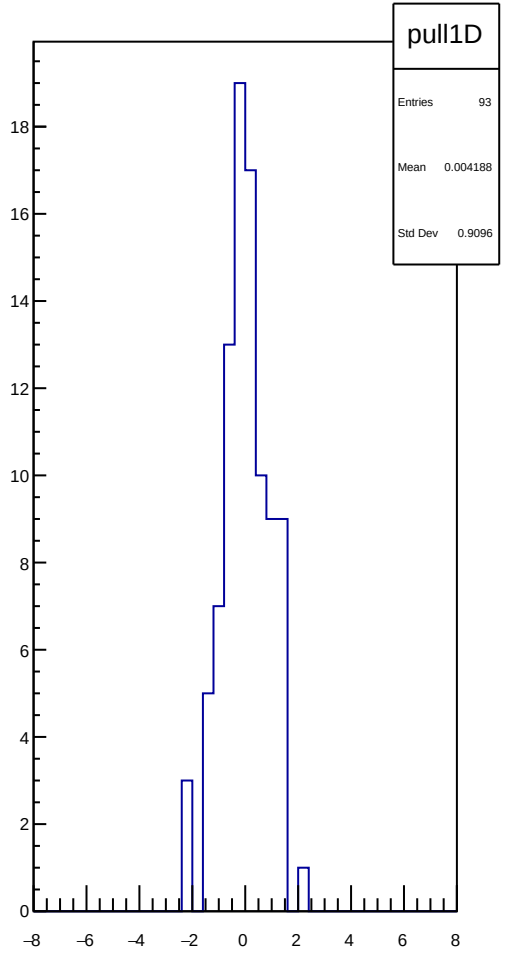

asym_usr_atr1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.527e+05 / 92
p0 119.9 ± 0.09195
240
220
200
180
160
140
120
100
80
60

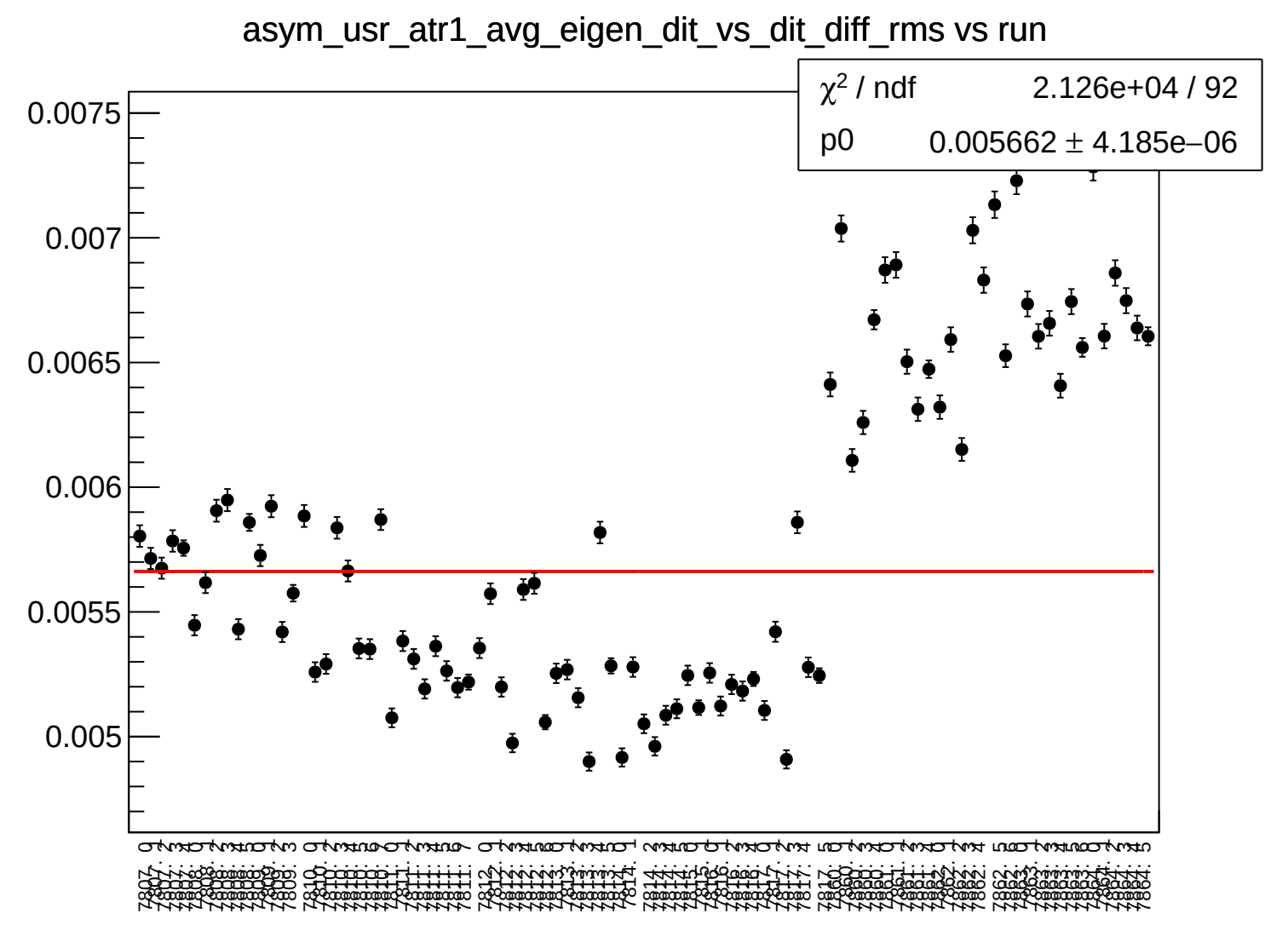

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.73 / 92
p0 −0.02945 ± 0.13
pull
Entries 93
Mean −31.66
Std Dev 0

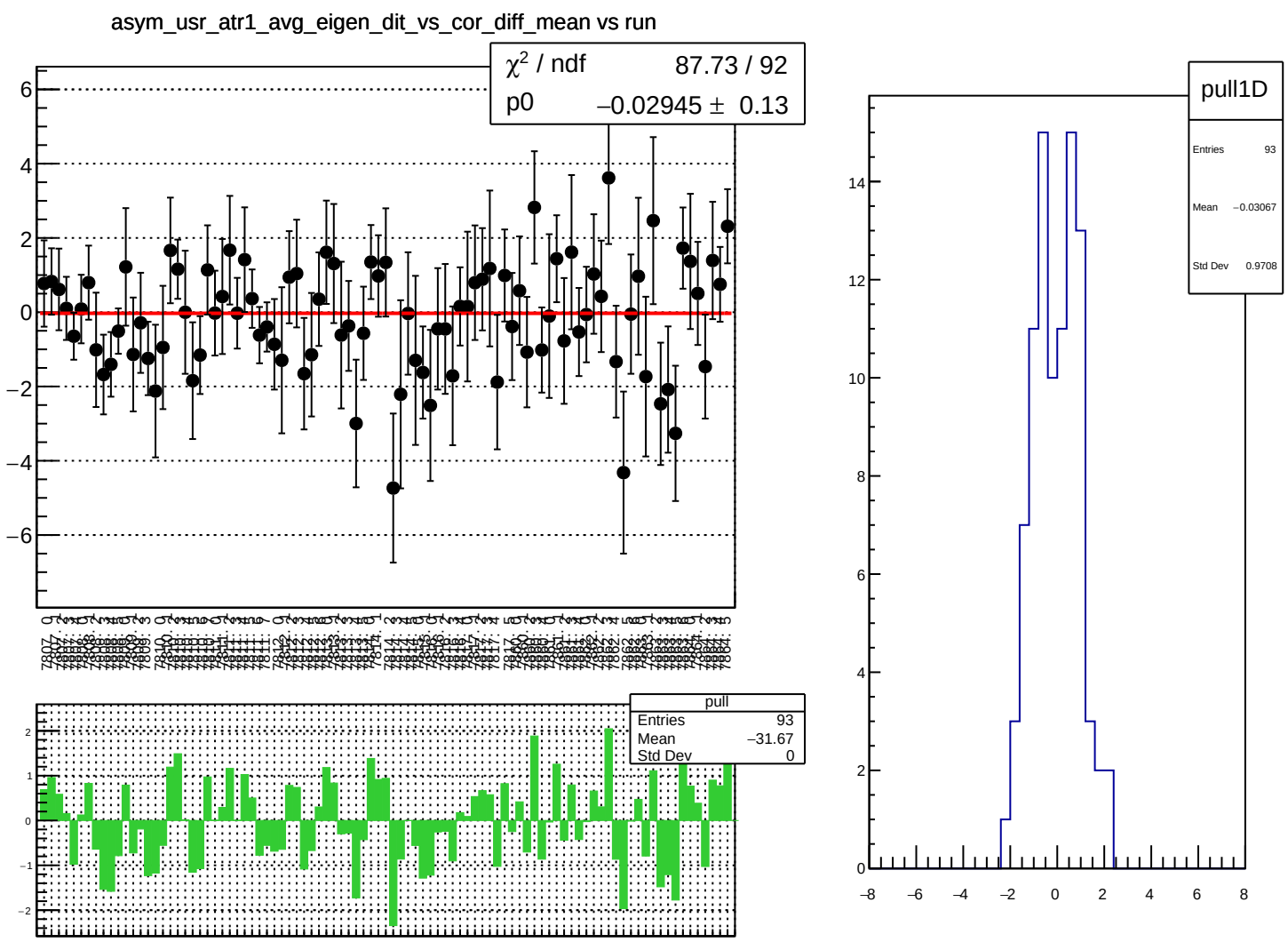

pull1D
Entries 93
Mean −0.03067
Std Dev 0.9708

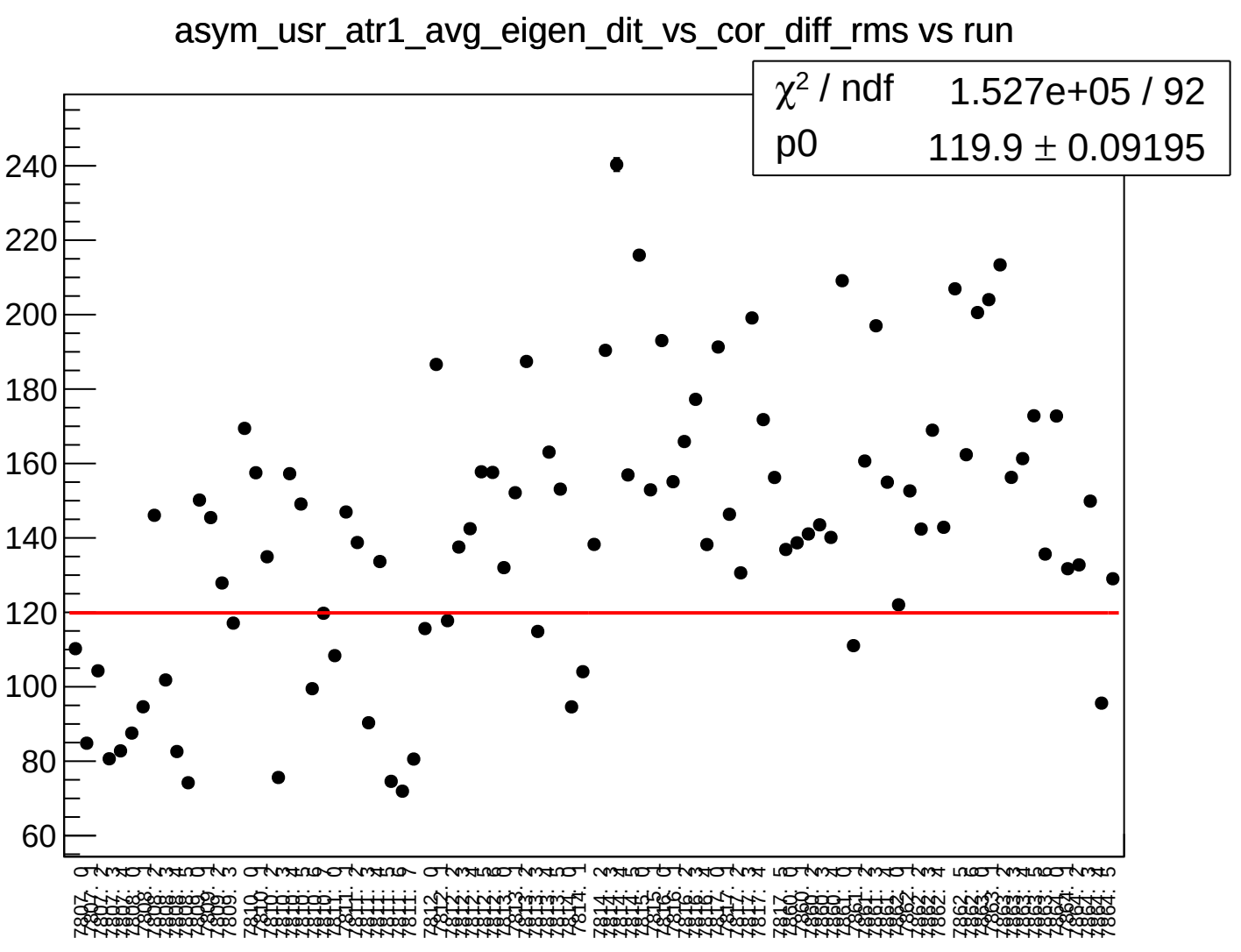

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.527e+05 / 92
p0 119.9 ± 0.09195
240
220
200
180
160
140
120
100
80
60

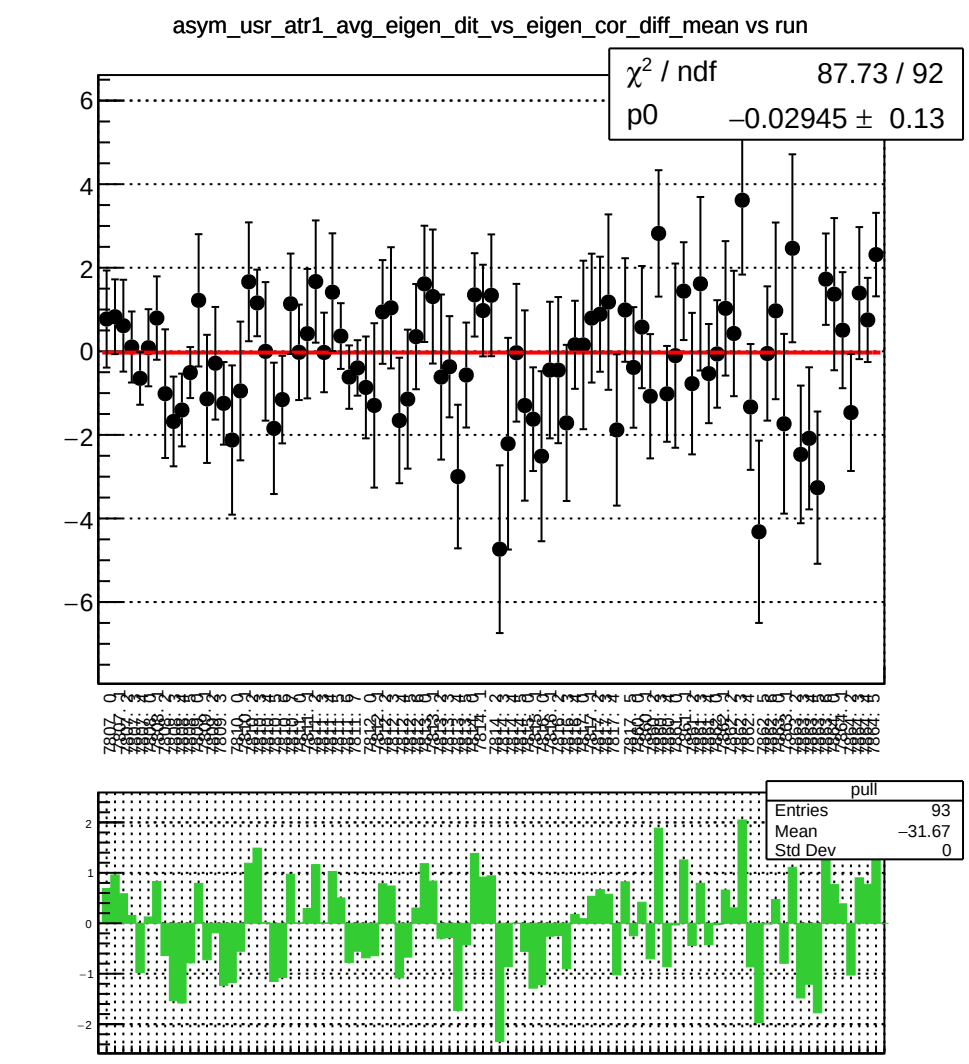

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 76.94 / 92
p0 4.987e−06 ± 5.919e−06
pull
Entries 93
Mean 381.4
Std Dev 0

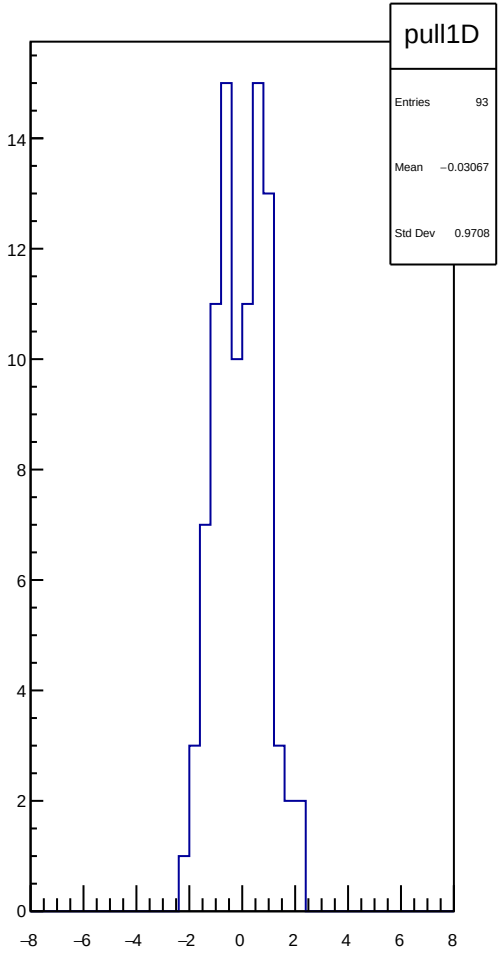

pull1D
Entries 93
Mean 0.004188
Std Dev 0.9096

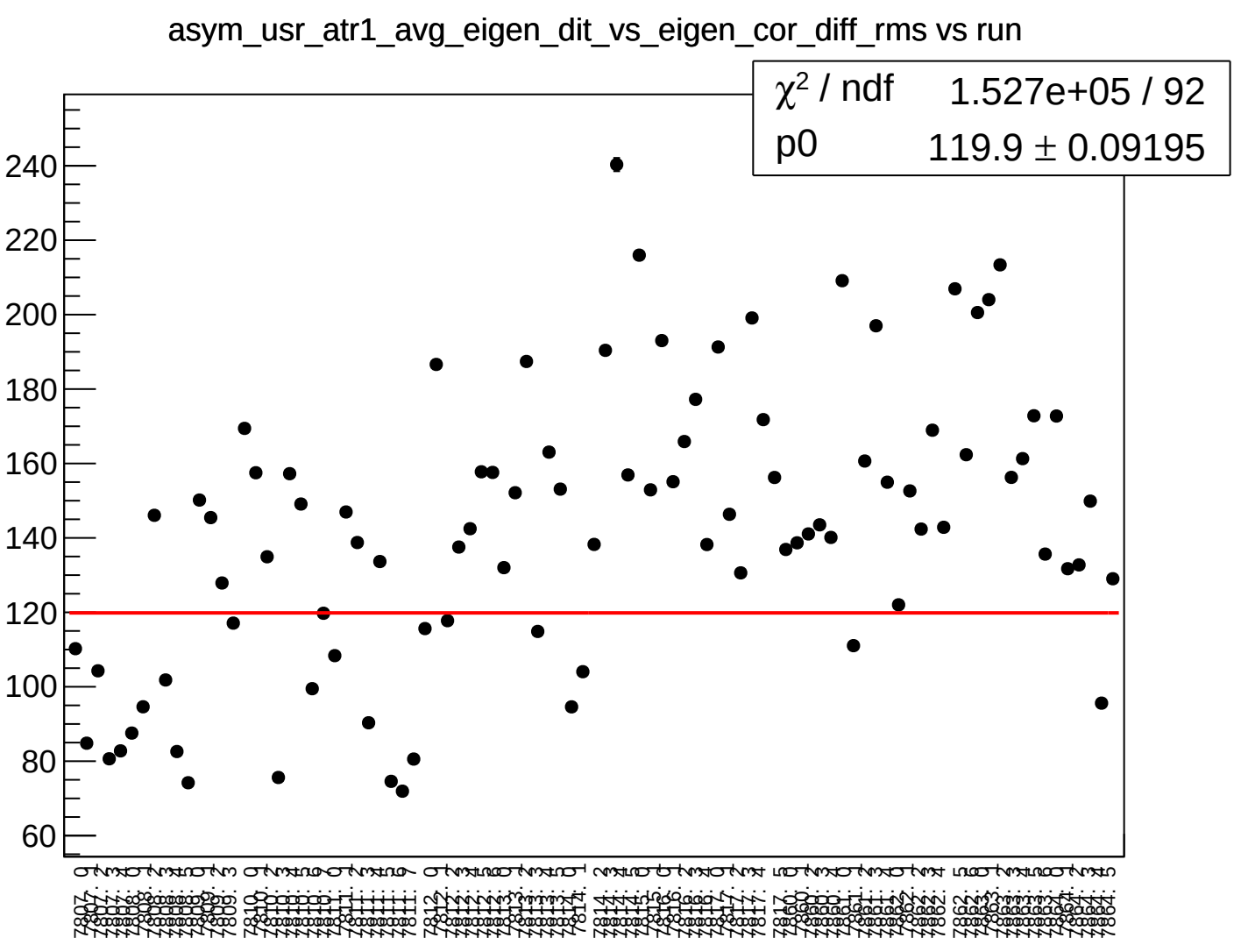

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.126e+04 / 92
p0 0.005662 ± 4.185e−06
0.0075
0.007
0.0065
0.006
0.0055
0.005

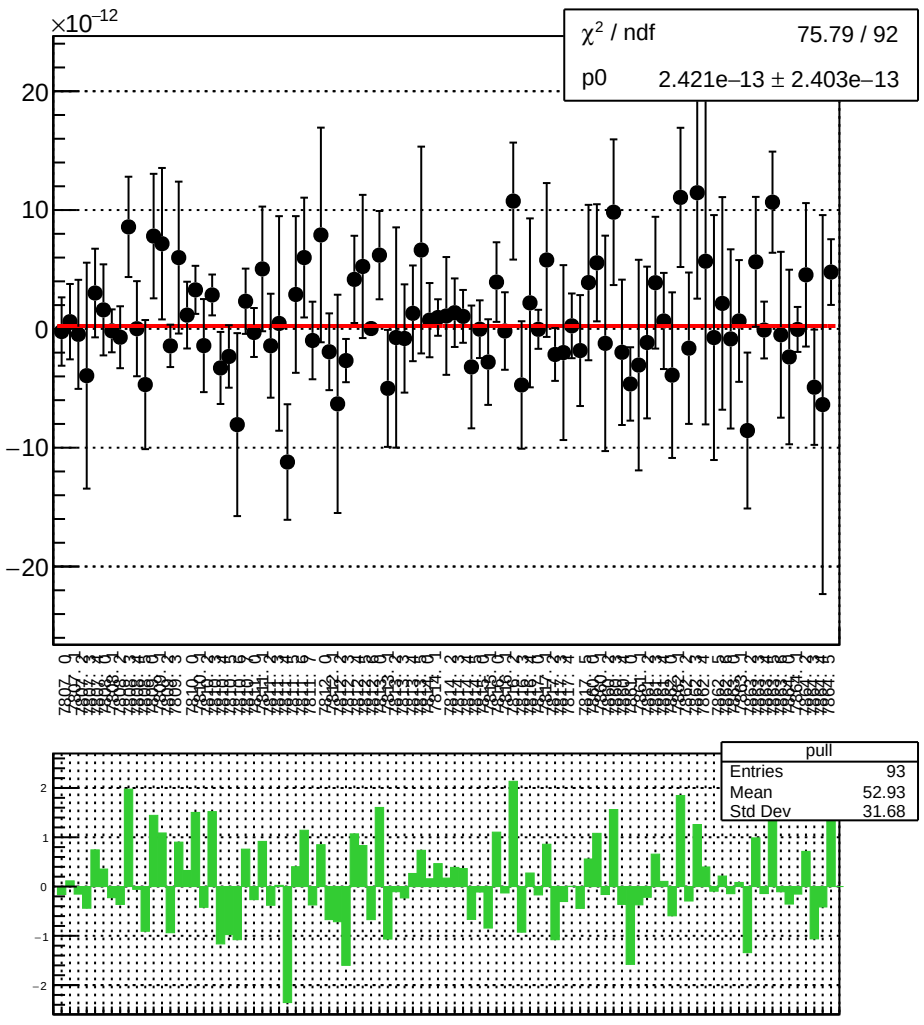

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.73 / 92
p0 −0.02945 ± 0.13
pull
Entries 93
Mean −31.67
Std Dev 0
pull1D
Entries 93
Mean −0.03067
Std Dev 0.9708

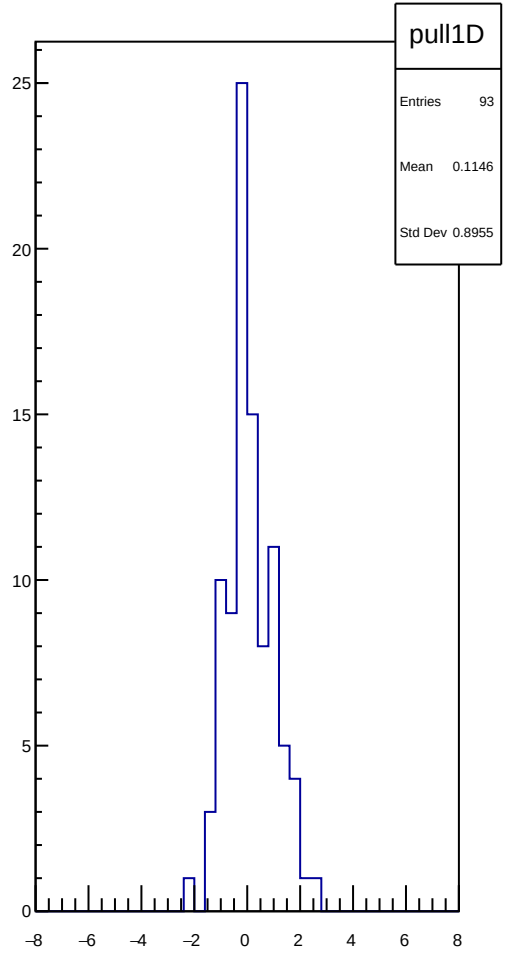

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.527e+05 / 92
p0 119.9 ± 0.09195
240
220
200
180
160
140
120
100
80
60

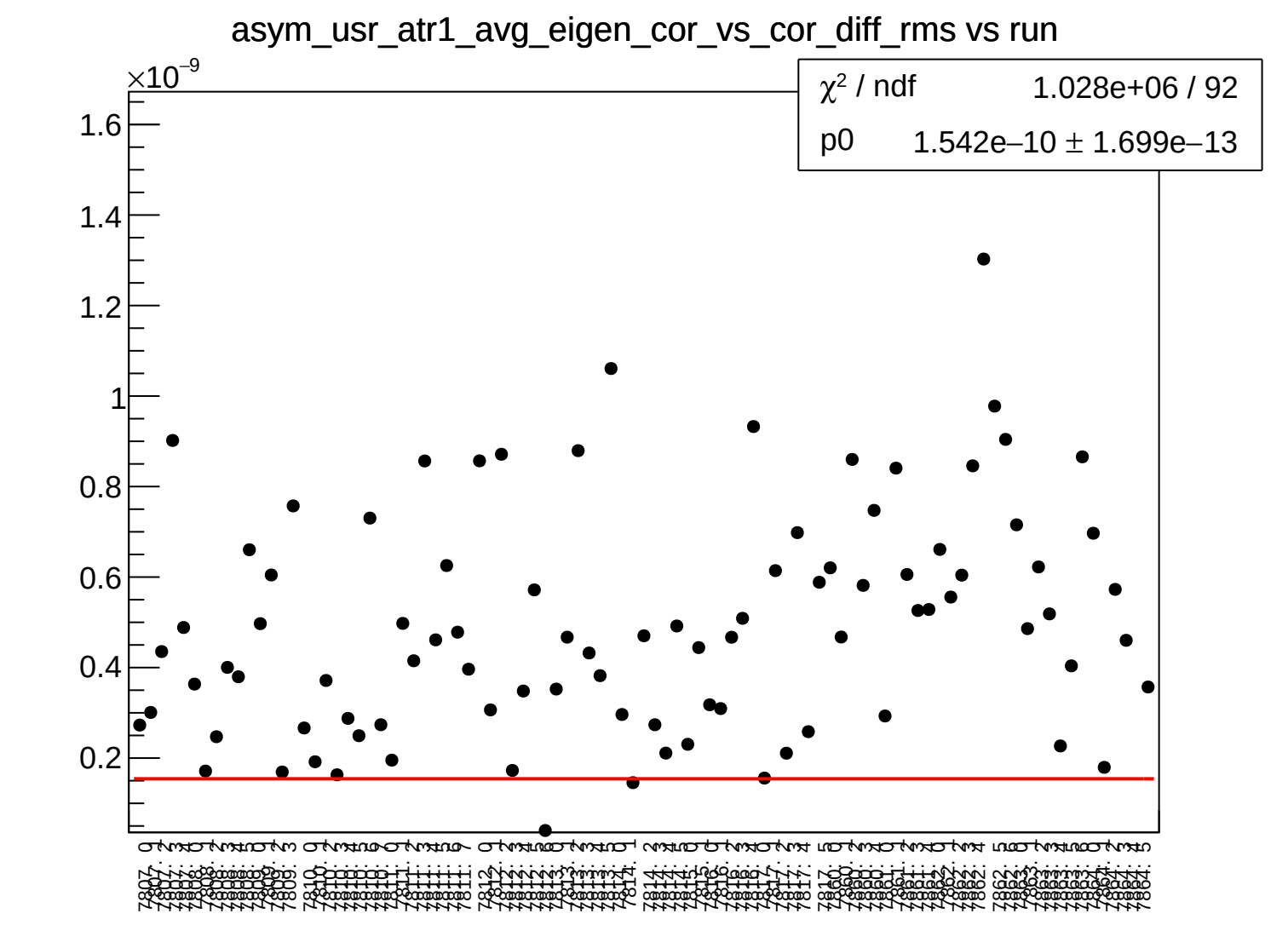

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.73 / 92
p0 −0.02945 ± 0.13
pull
Entries 93
Mean −31.67
Std Dev 0

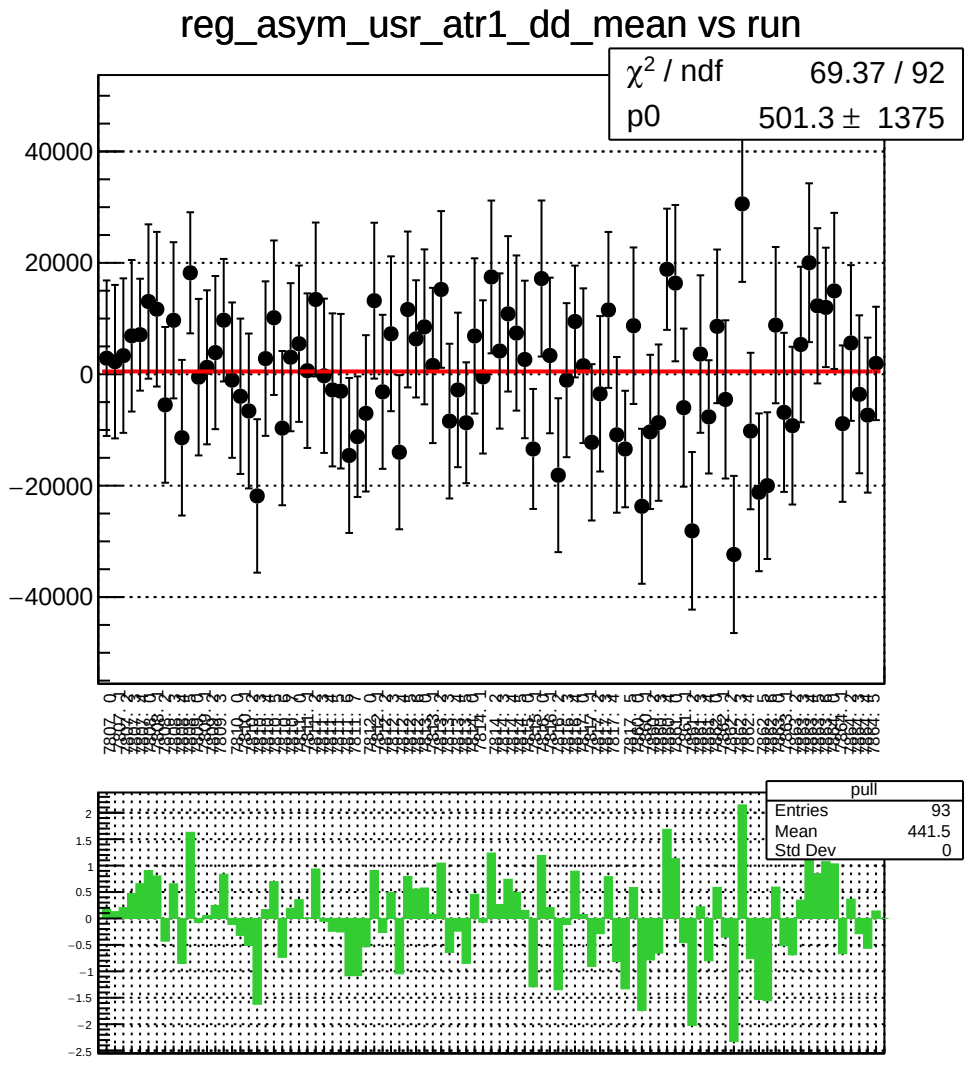

pull1D
Entries 93
Mean −0.03067
Std Dev 0.9708

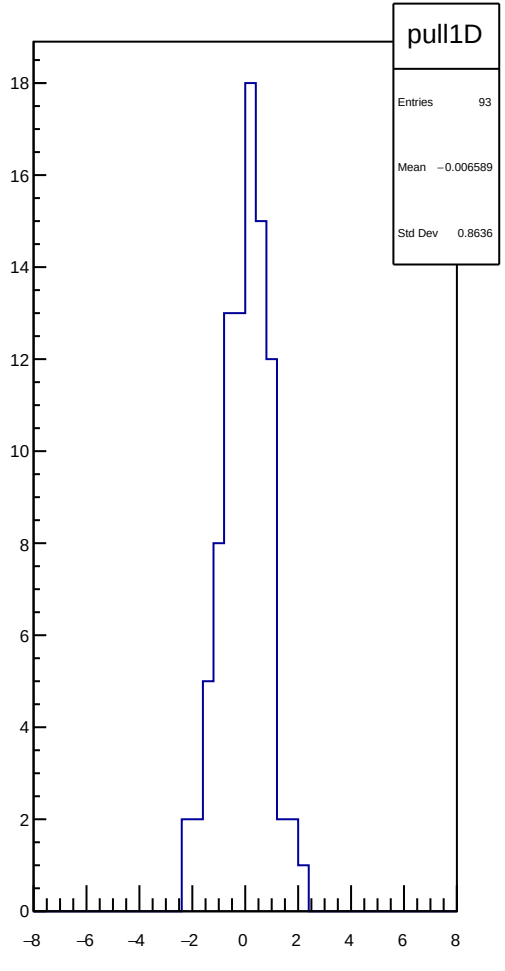

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.527e+05 / 92
p0 119.9 ± 0.09195
240
220
200
180
160
140
120
100
80
60

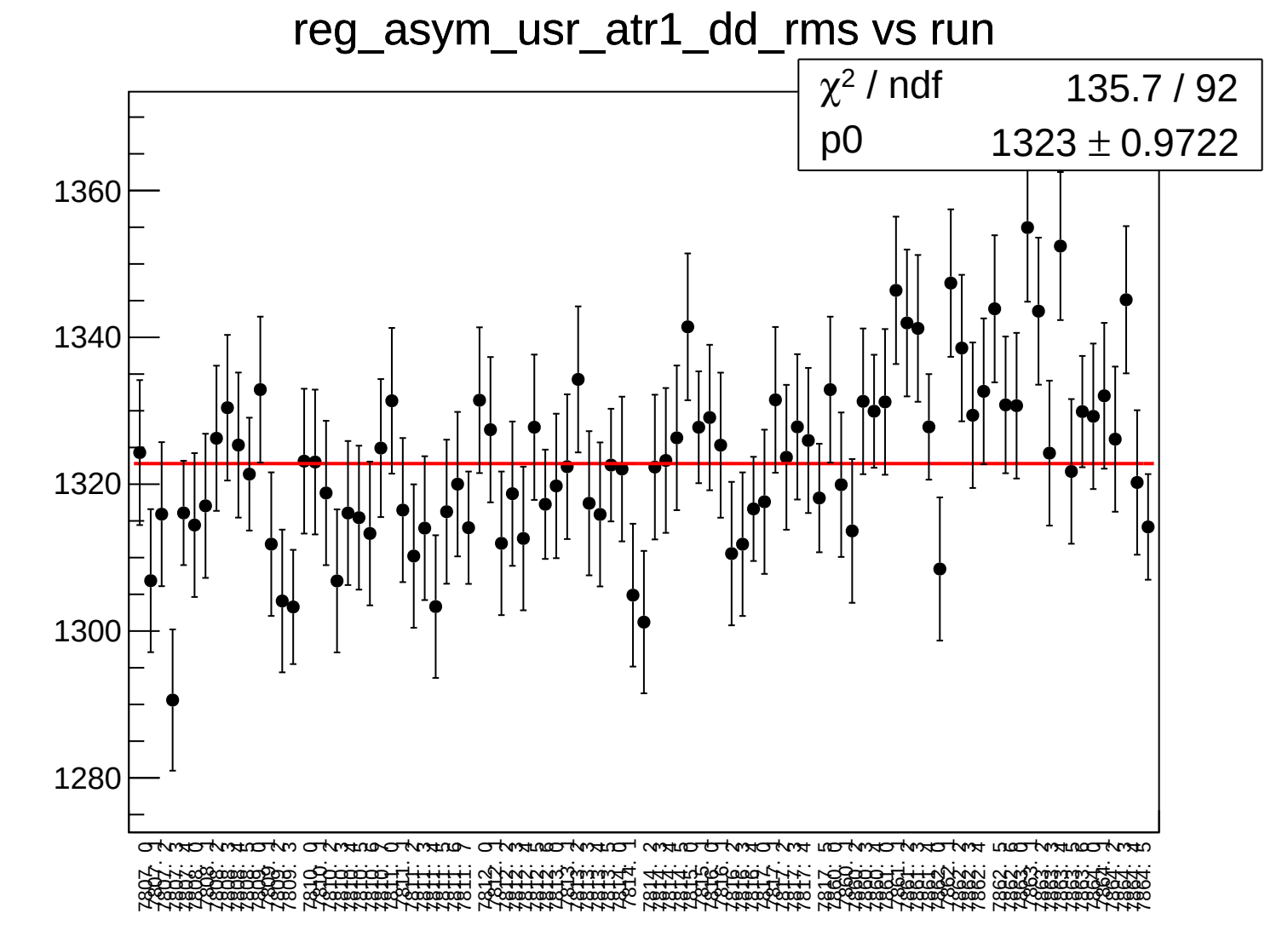

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.79 / 92
p0 2.421e−13 ± 2.403e−13
20
10
0
−10
−20
pull
Entries 93
Mean 52.93
Std Dev 31.68
2
1
0
−1
−2

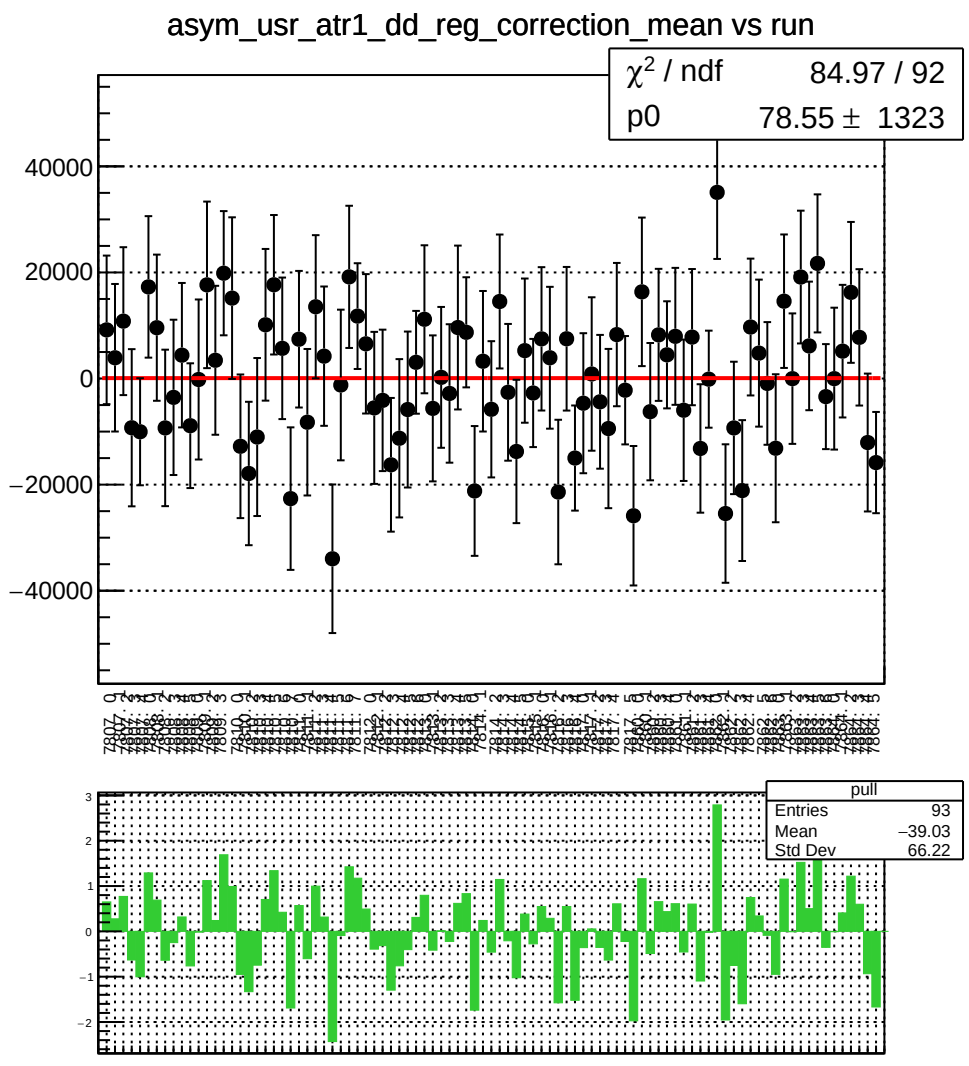

pull1D
Entries 93
Mean 0.1146
Std Dev 0.8955
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

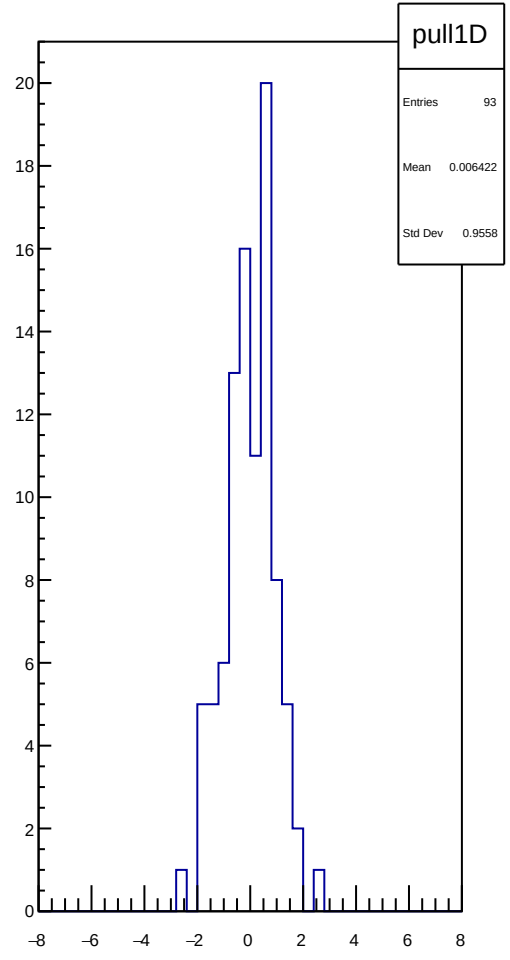

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.028e+06 / 92
p0 1.542e−10 ± 1.699e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

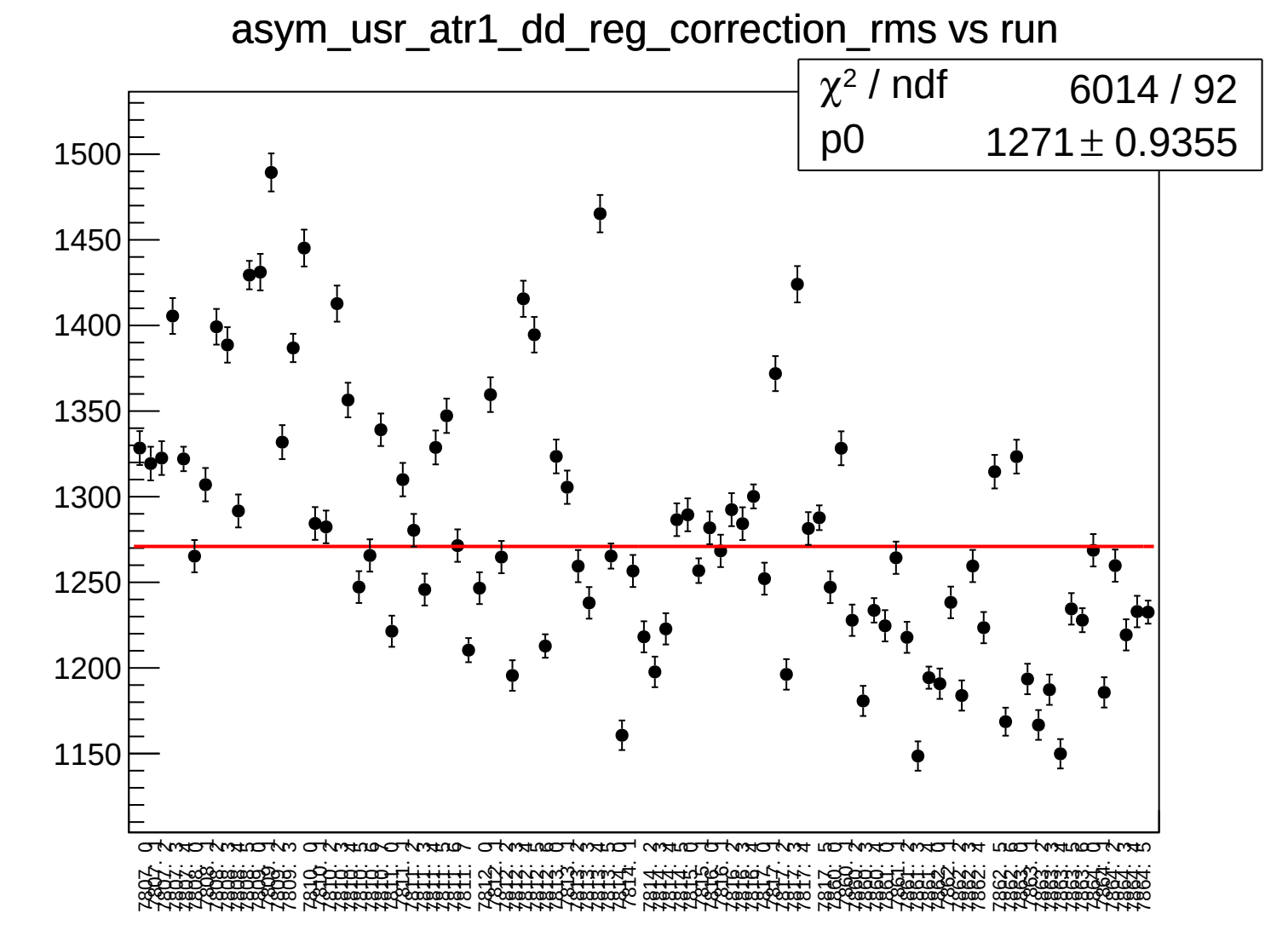

reg_asym_usr_atr1_dd_mean vs run
χ² / ndf 69.37 / 92
p0 501.3 ± 1375
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 441.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

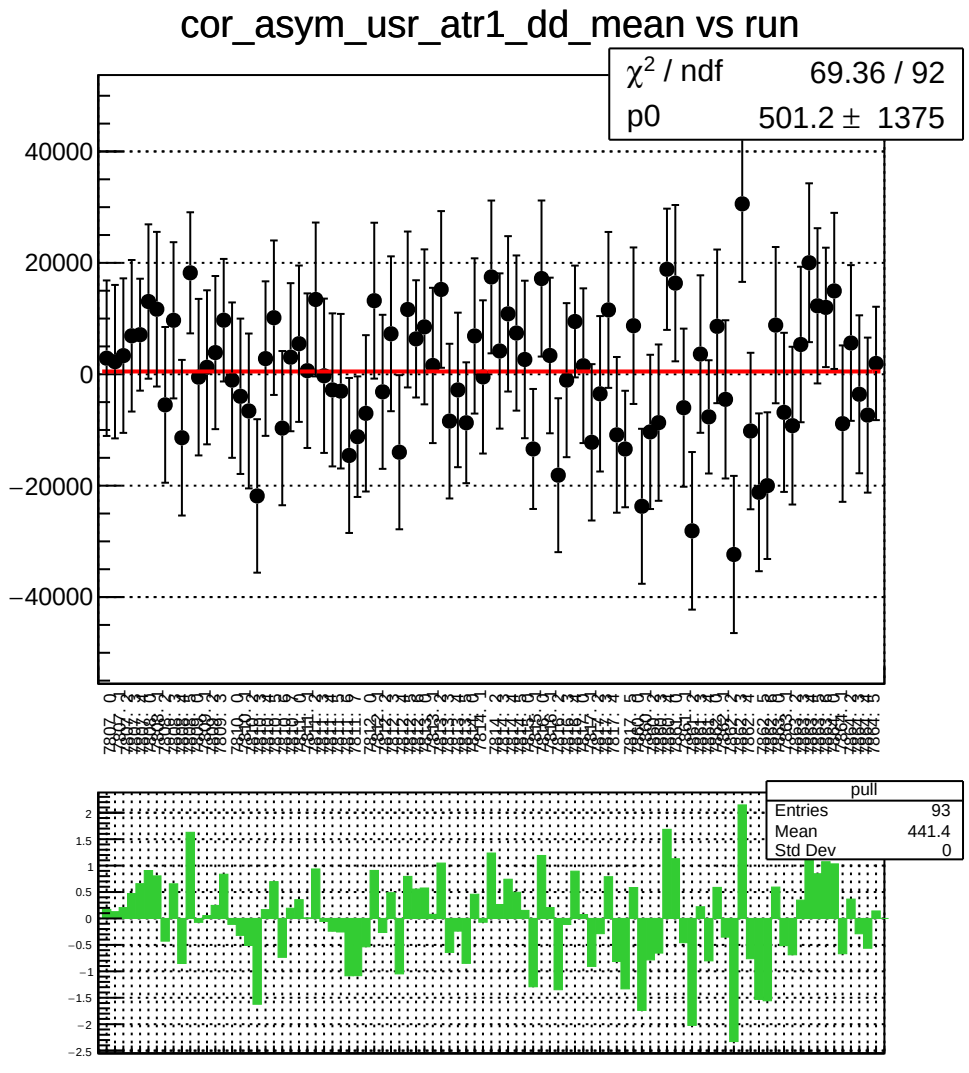

pull1D
Entries 93
Mean −0.006589
Std Dev 0.8636
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

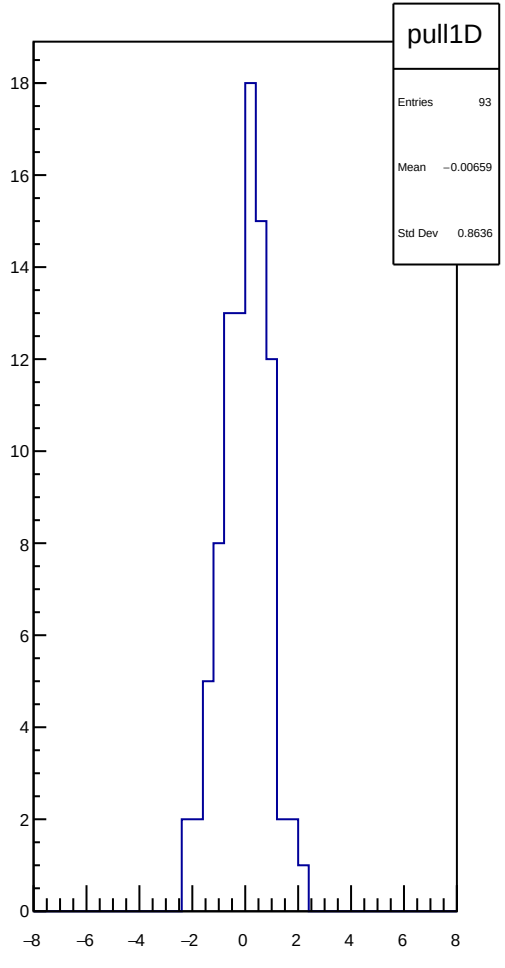

reg_asym_usr_atr1_dd_rms vs run
χ^2 / ndf 135.7 / 92
p0 1323 ± 0.9722
1360
1340
1320
1300
1280

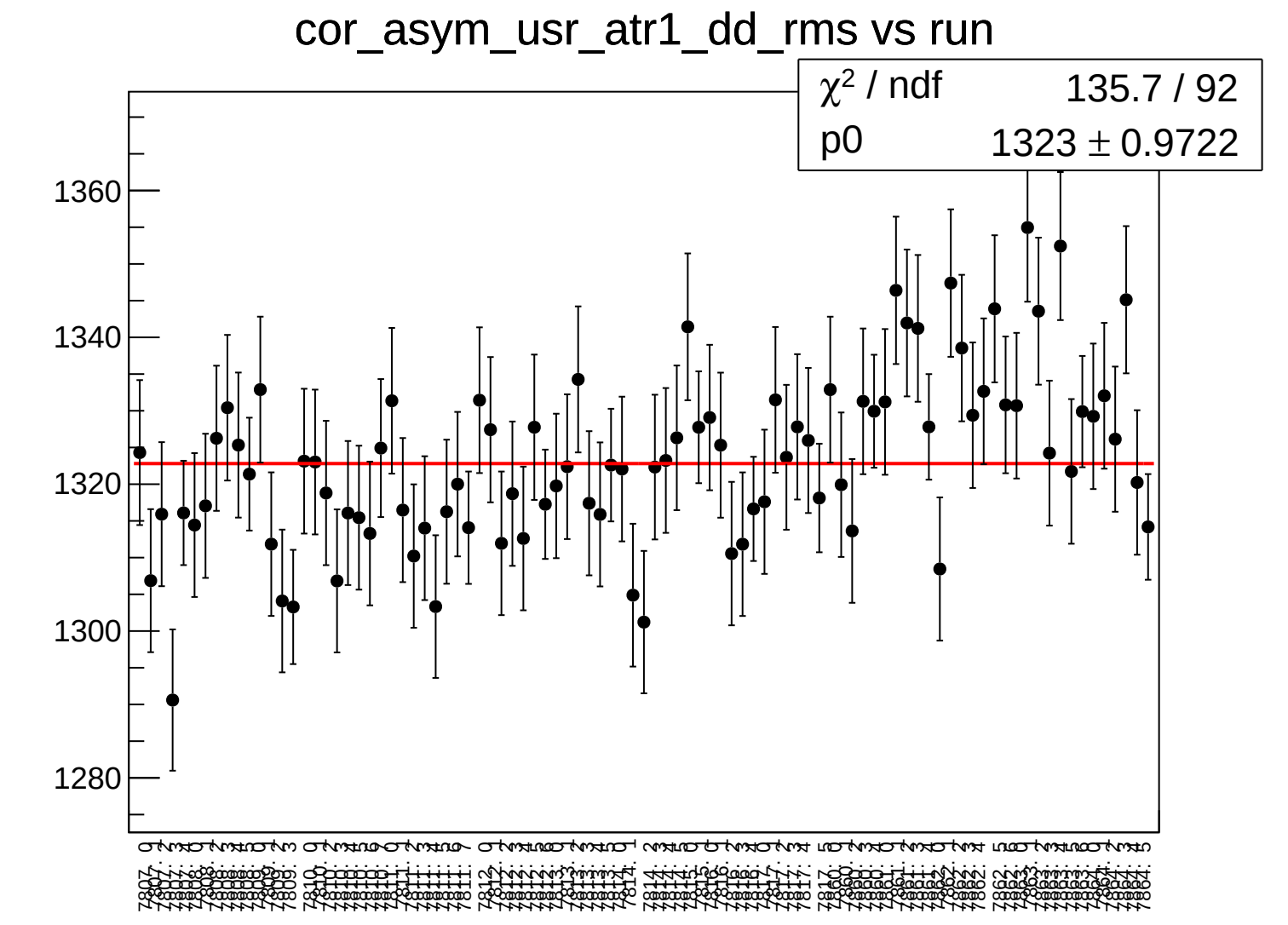

asym_usr_atr1_dd_reg_correction_mean vs run
χ² / ndf 84.97 / 92
p0 78.55 ± 1323
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −39.03
Std Dev 66.22
3
2
1
0
−1
−2

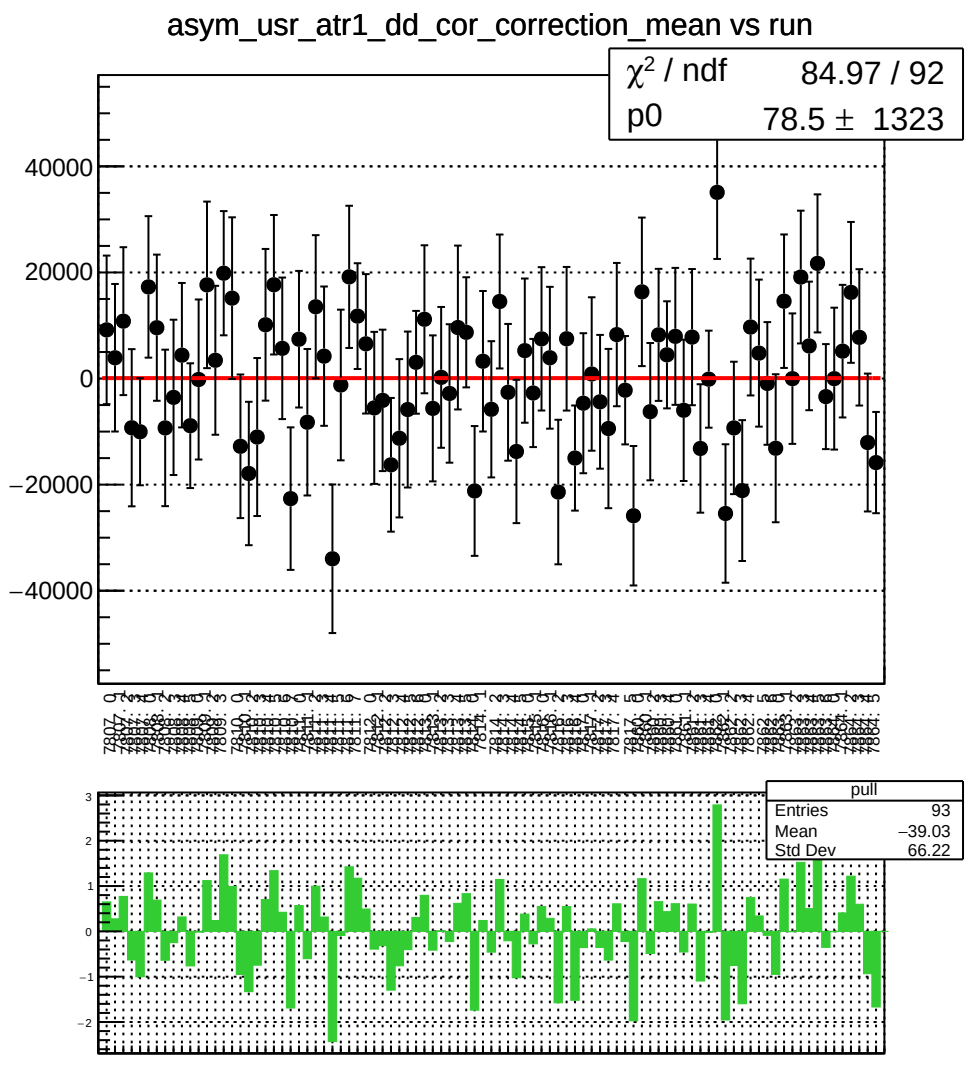

pull1D
Entries 93
Mean 0.006422
Std Dev 0.9558
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

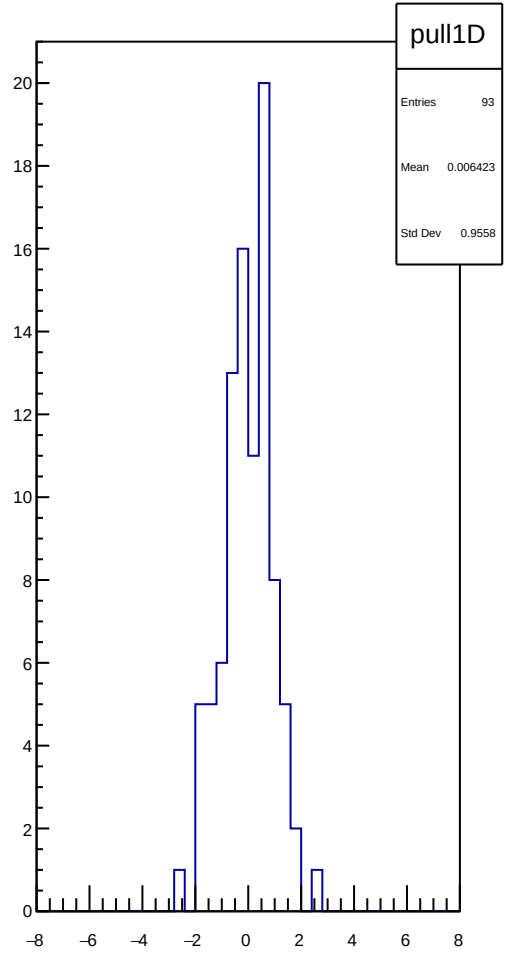

asym_usr_atr1_dd_reg_correction_rms vs run
χ² / ndf 6014 / 92
p0 1271 ± 0.9355
1500
1450
1400
1350
1300
1250
1200
1150

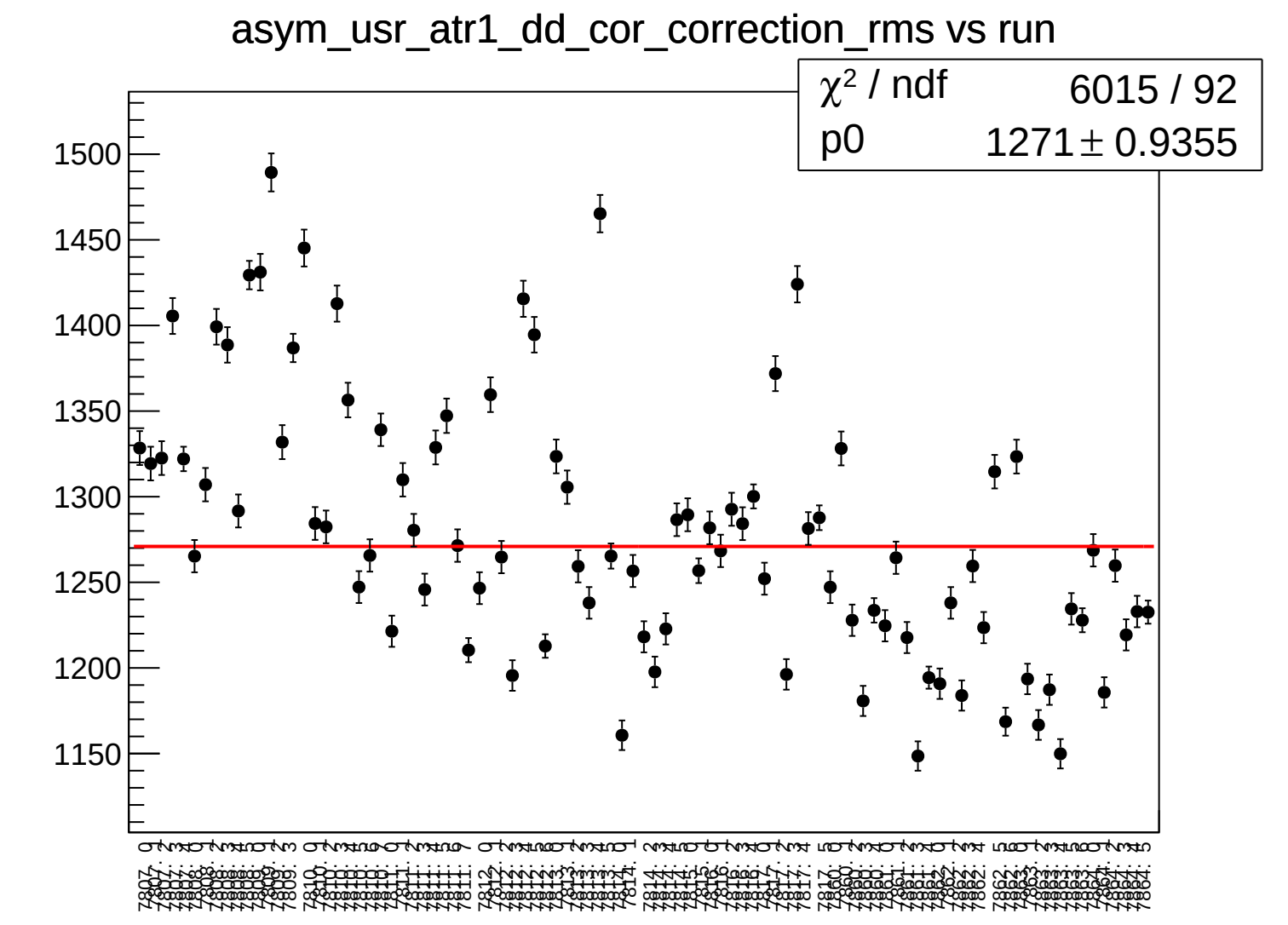

cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 69.36 / 92
p0 501.2 ± 1375
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 441.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

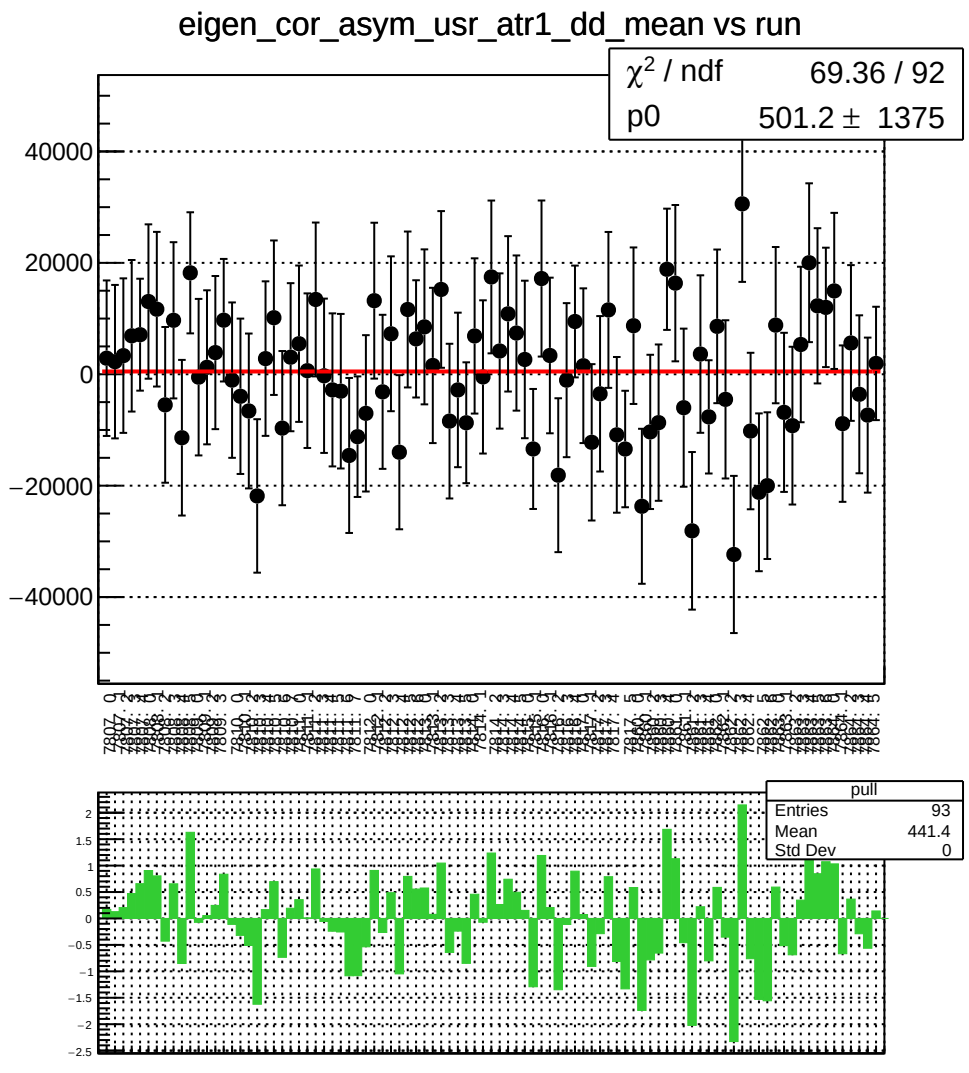

pull1D
Entries 93
Mean −0.00659
Std Dev 0.8636
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

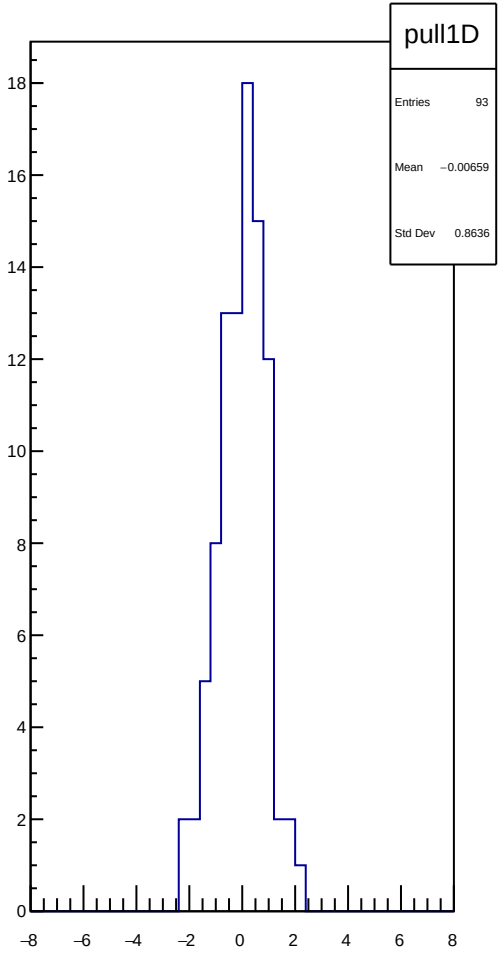

cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 135.7 / 92
p0 1323 ± 0.9722
1360
1340
1320
1300
1280

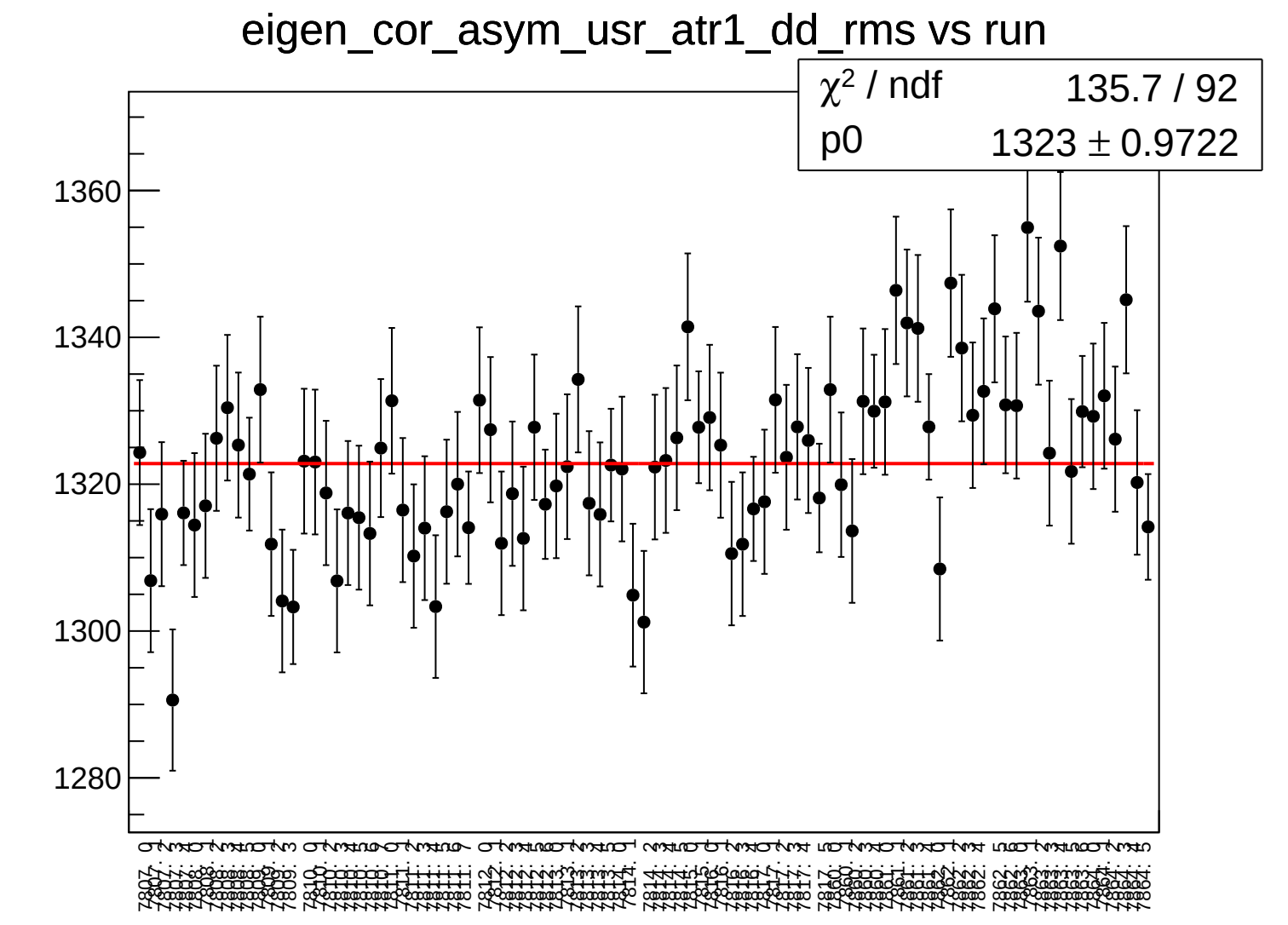

asym_usr_atr1_dd_cor_correction_mean vs run
χ² / ndf 84.97 / 92
p0 78.5 ± 1323
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −39.03
Std Dev 66.22
3
2
1
0
−1
−2

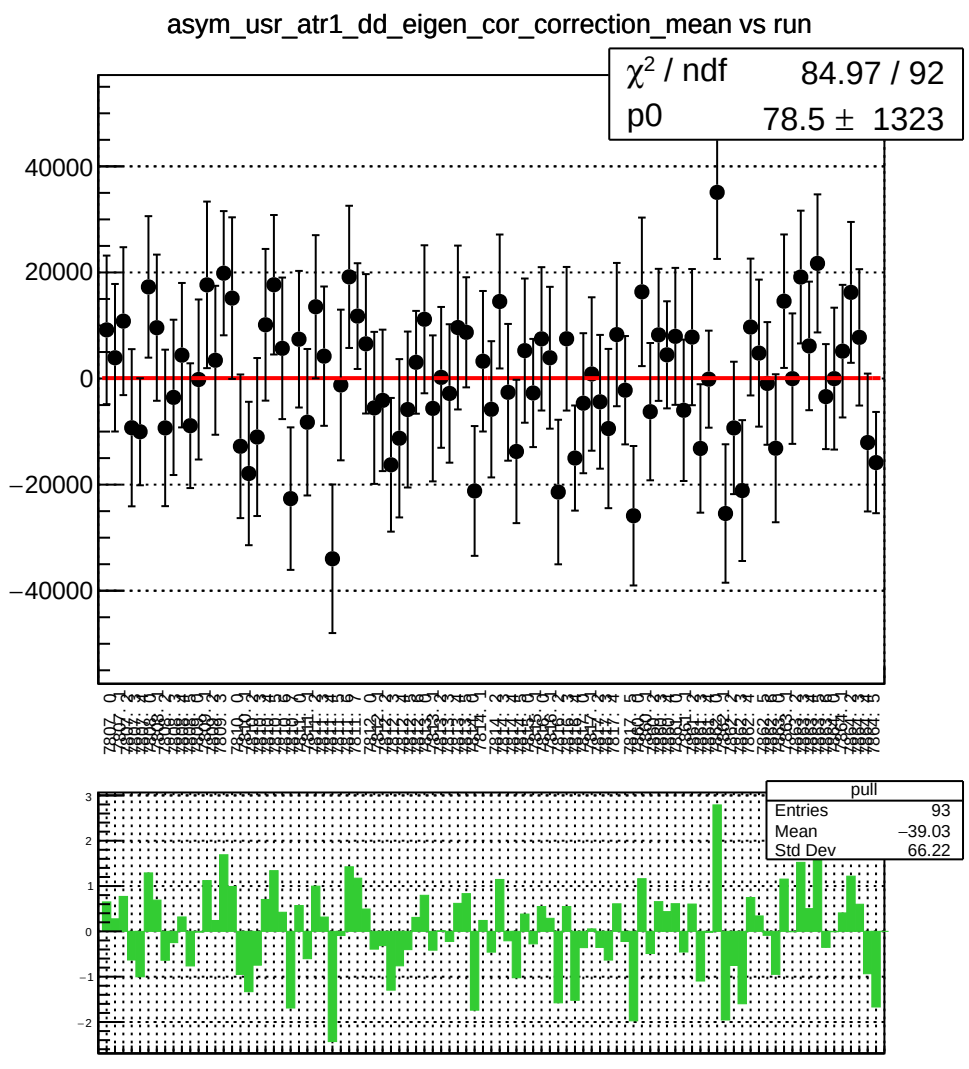

pull1D
Entries 93
Mean 0.006423
Std Dev 0.9558
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

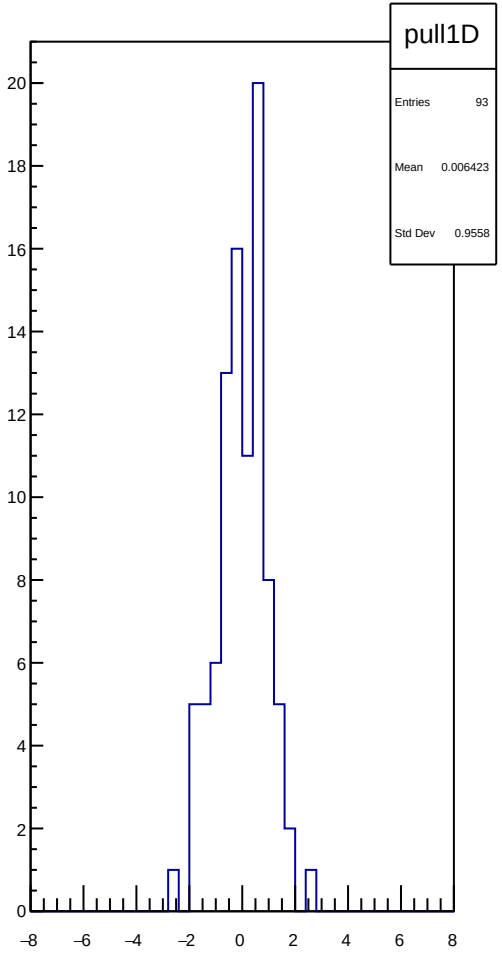

asym_usr_atr1_dd_cor_correction_rms vs run
χ² / ndf 6015 / 92
p0 1271 ± 0.9355
1500
1450
1400
1350
1300
1250
1200
1150

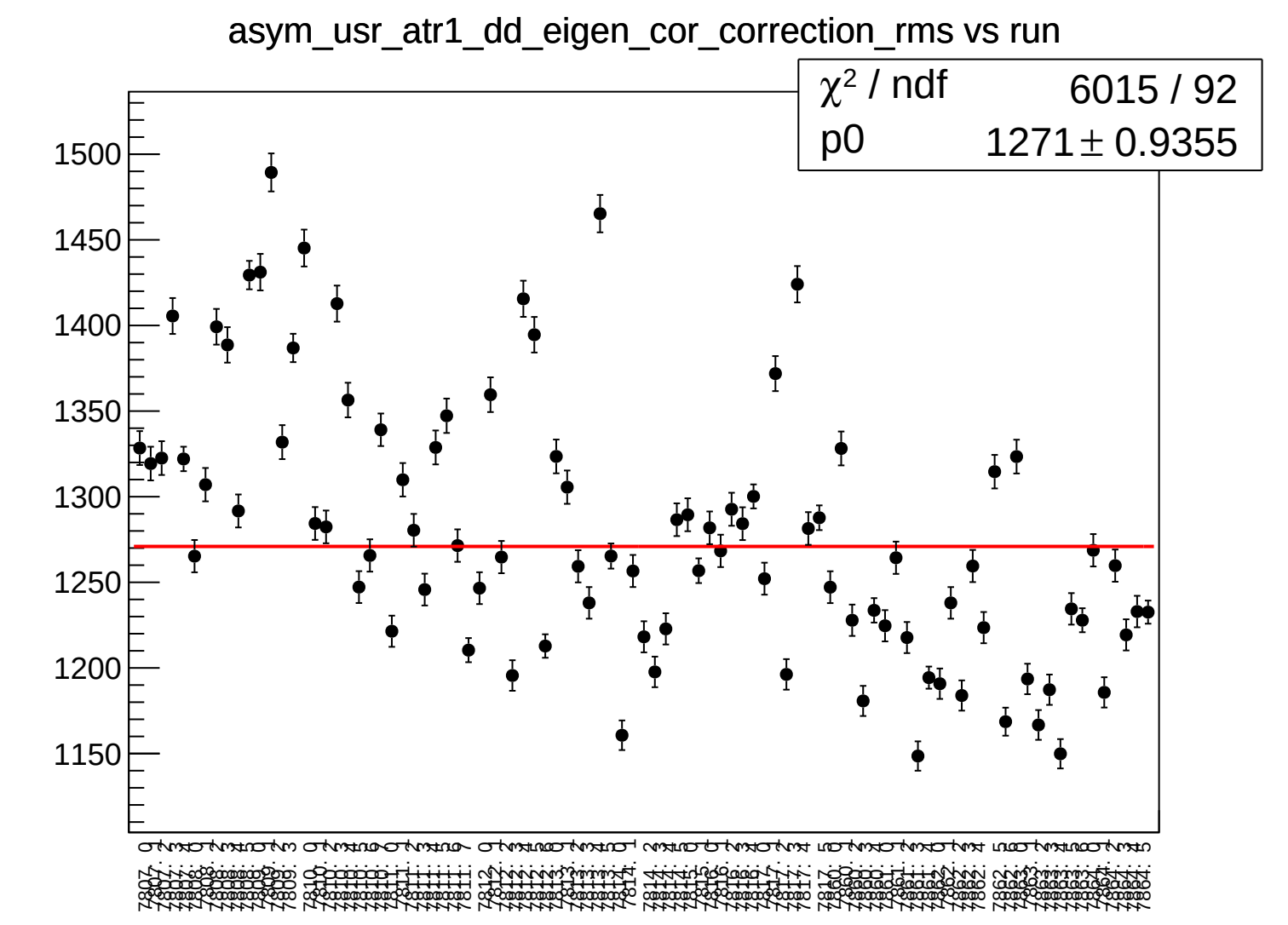

eigen_cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 69.36 / 92
p0 501.2 ± 1375
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 441.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

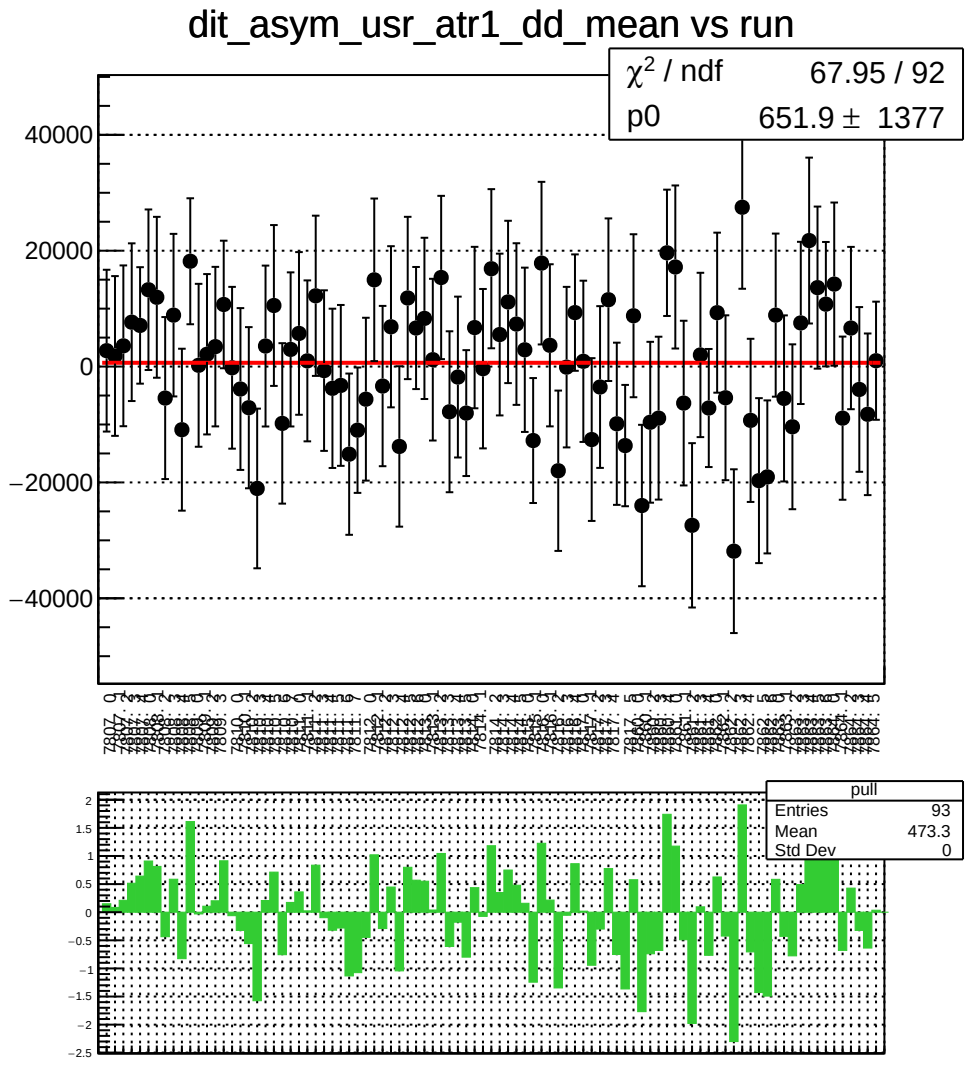

pull1D
Entries 93
Mean −0.00659
Std Dev 0.8636
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

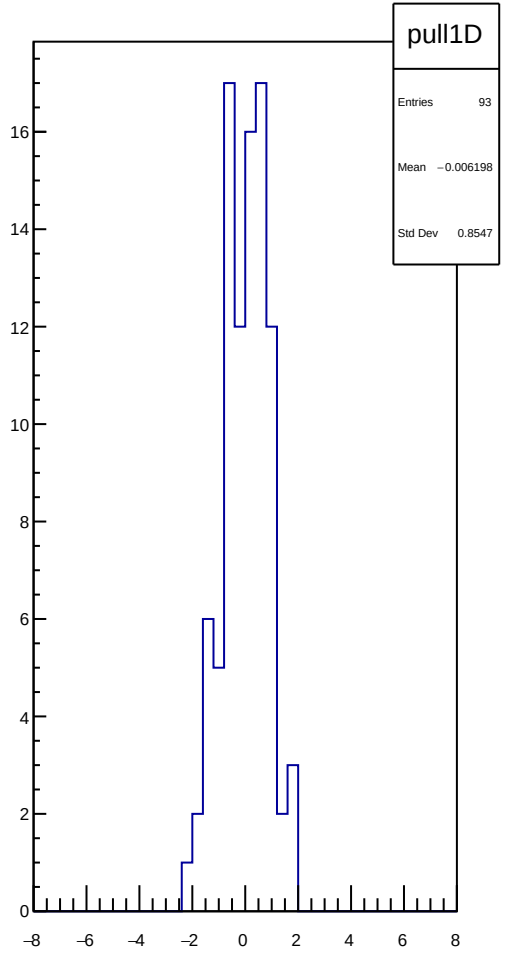

eigen_cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 135.7 / 92
p0 1323 ± 0.9722
1360
1340
1320
1300
1280

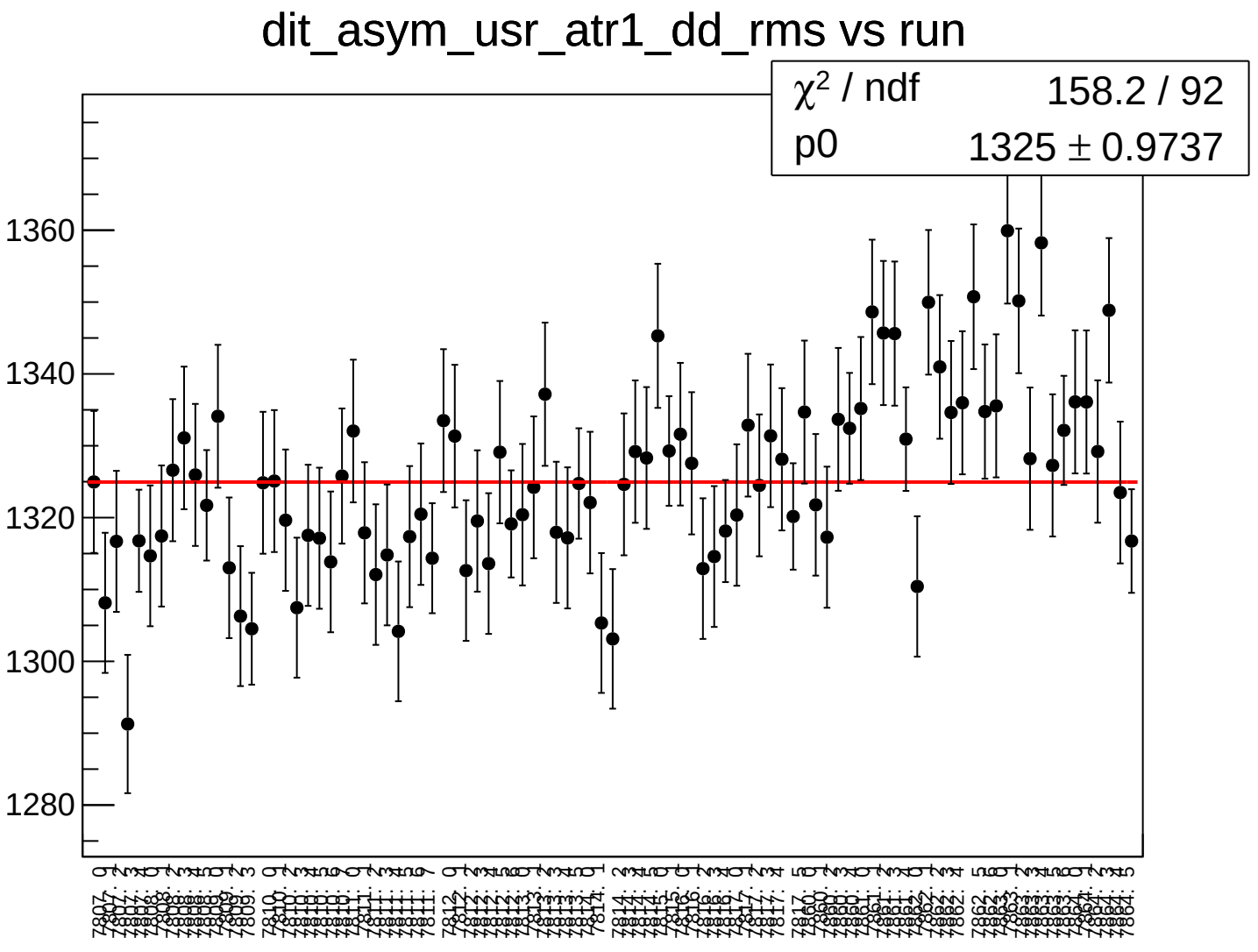

asym_usr_atr1_dd_eigen_cor_correction_mean vs run
χ² / ndf 84.97 / 92
p0 78.5 ± 1323
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −39.03
Std Dev 66.22
3
2
1
0
−1
−2

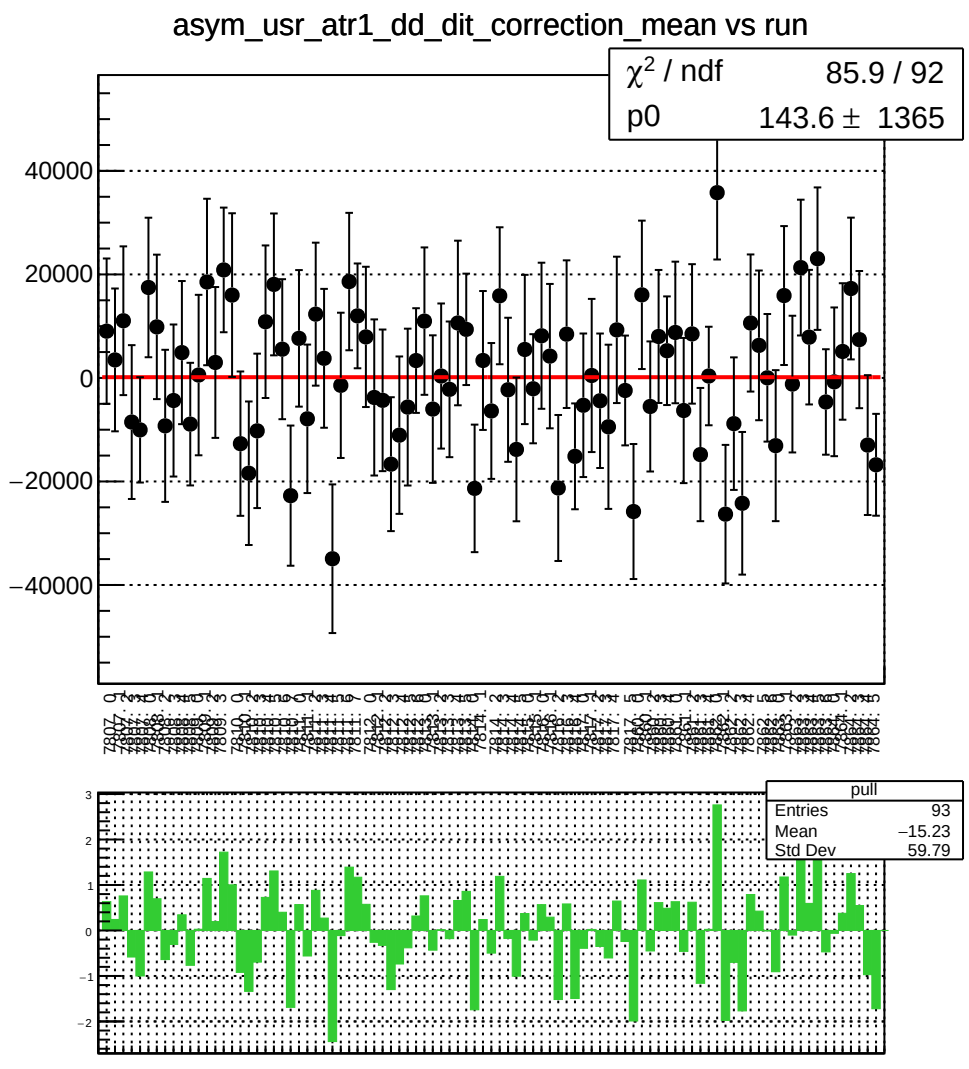

pull1D
Entries 93
Mean 0.006423
Std Dev 0.9558
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

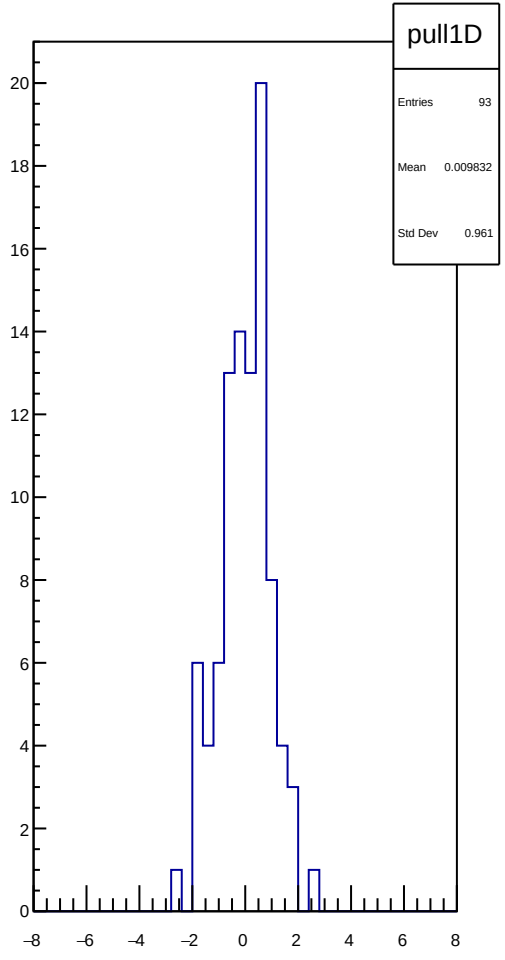

asym_usr_atr1_dd_eigen_cor_correction_rms vs run
χ² / ndf 6015 / 92
p0 1271 ± 0.9355
1500
1450
1400
1350
1300
1250
1200
1150

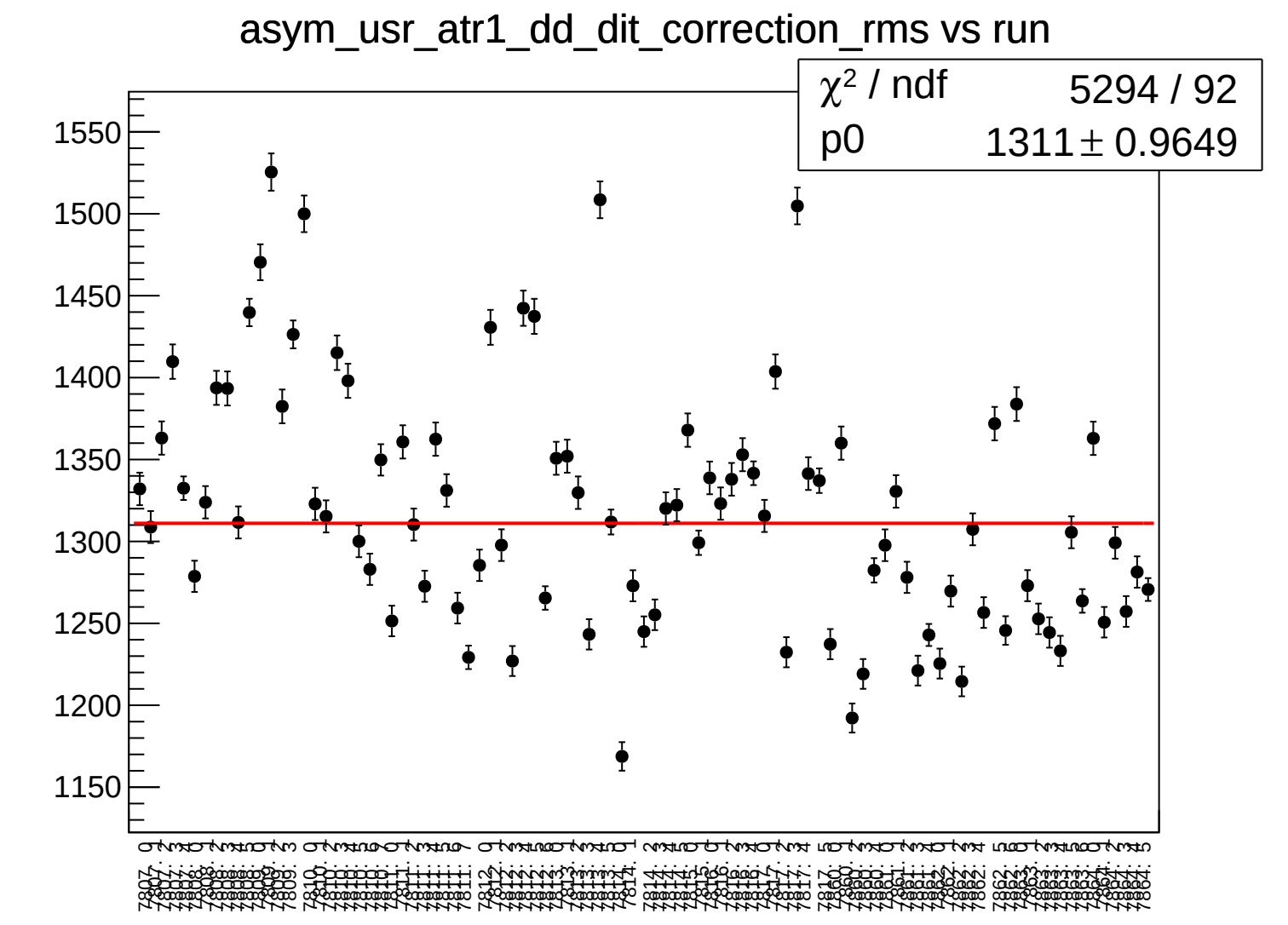

dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 67.95 / 92
p0 651.9 ± 1377
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 473.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

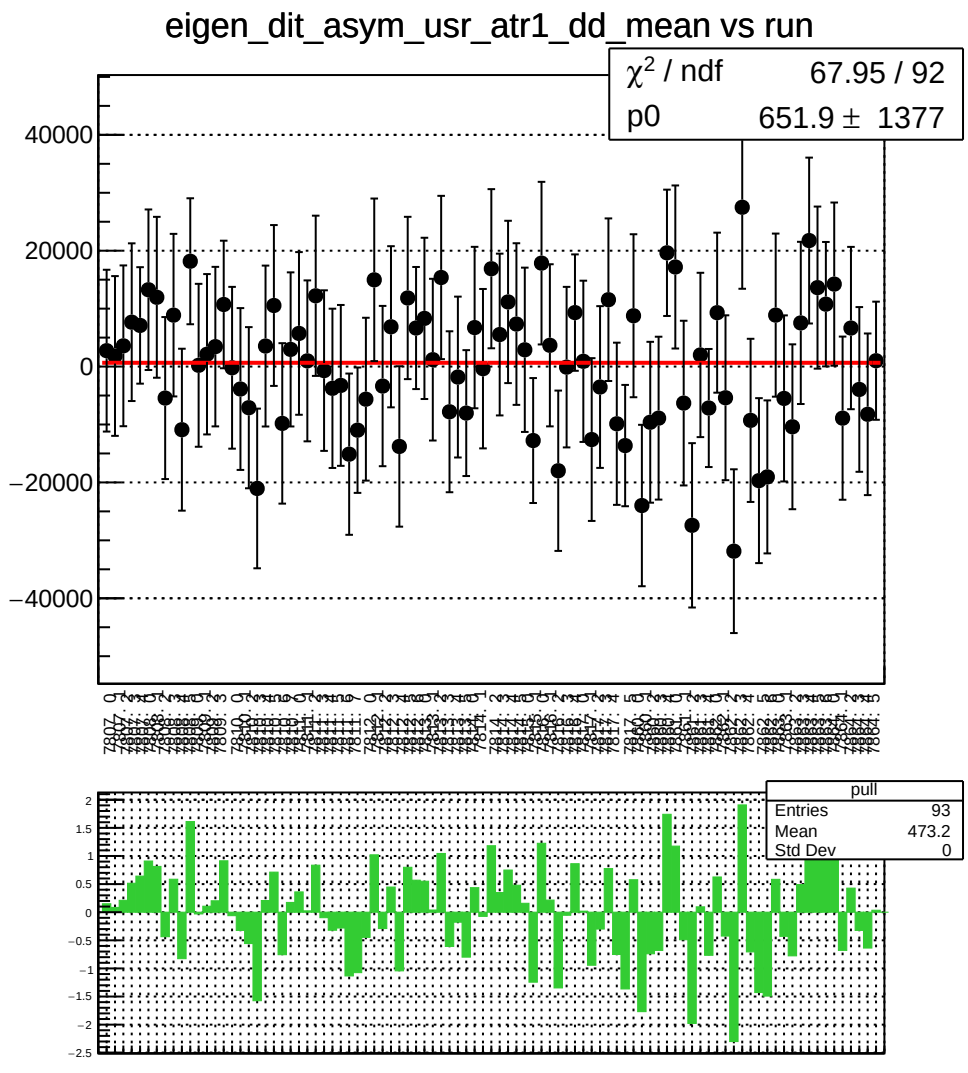

pull1D
Entries 93
Mean −0.006198
Std Dev 0.8547
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

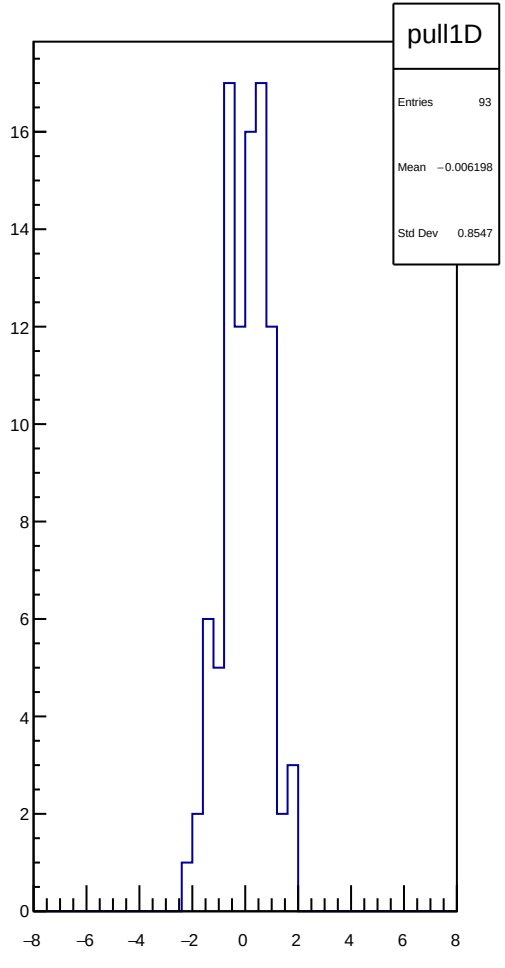

dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 158.2 / 92
p0 1325 ± 0.9737
1360
1340
1320
1300
1280

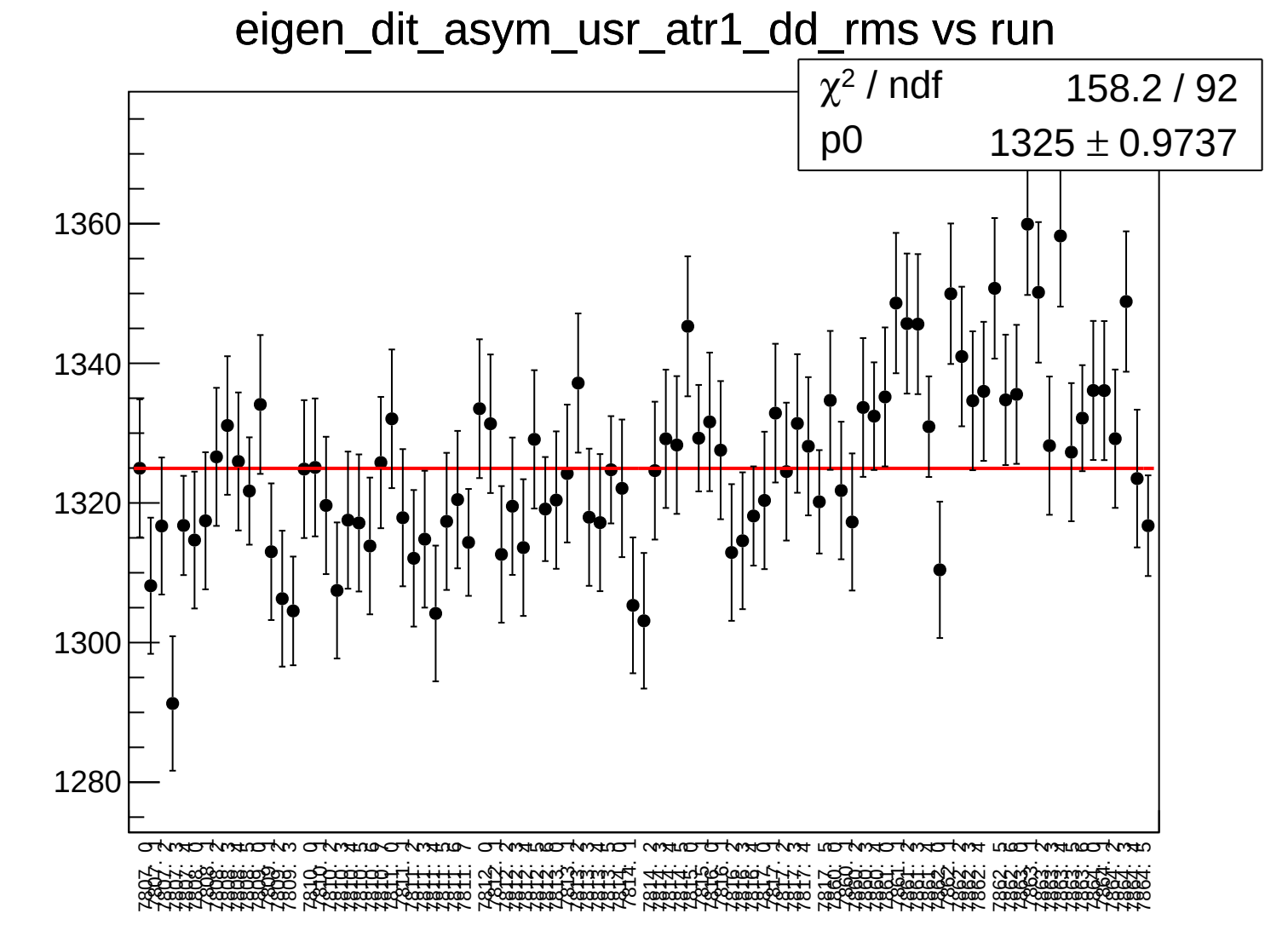

asym_usr_atr1_dd_dit_correction_mean vs run
χ² / ndf 85.9 / 92
p0 143.6 ± 1365
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −15.23
Std Dev 59.79
3
2
1
0
−1
−2

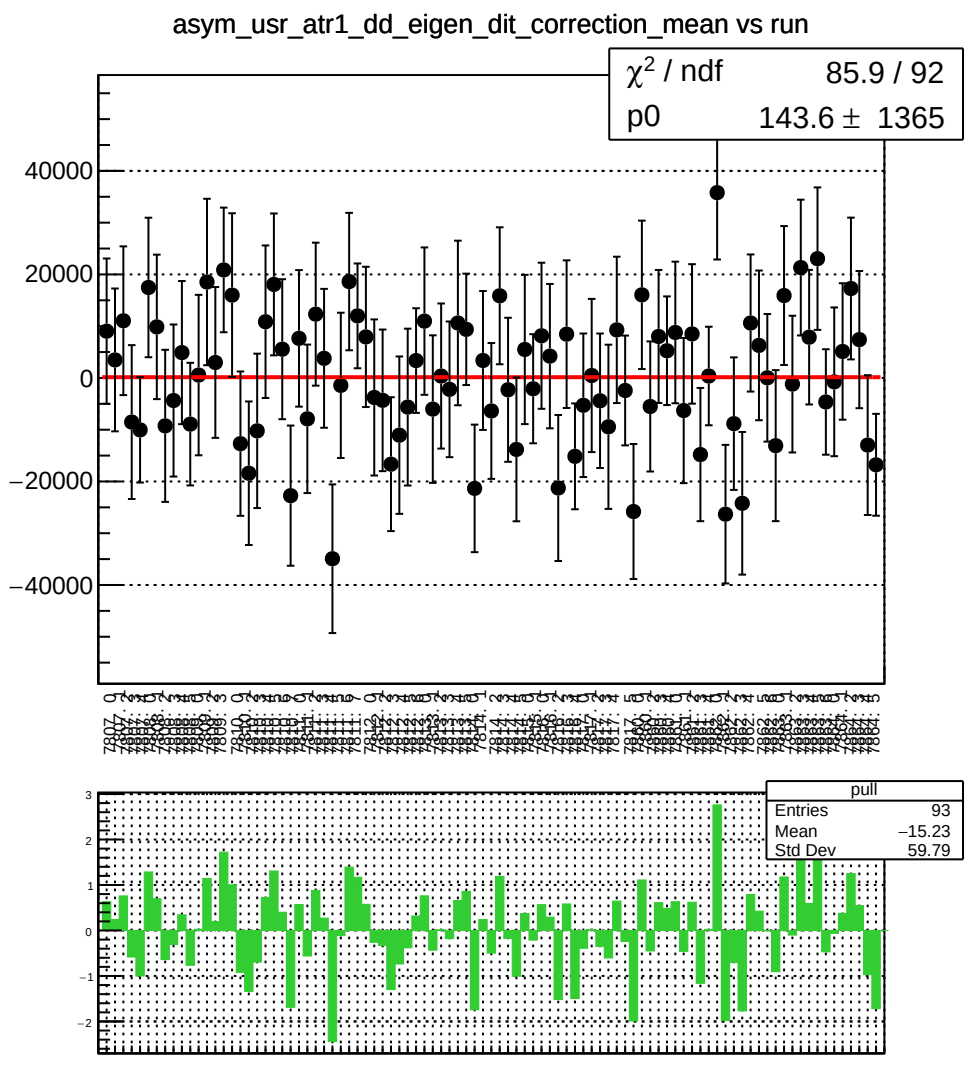

pull1D
Entries 93
Mean 0.009832
Std Dev 0.961
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

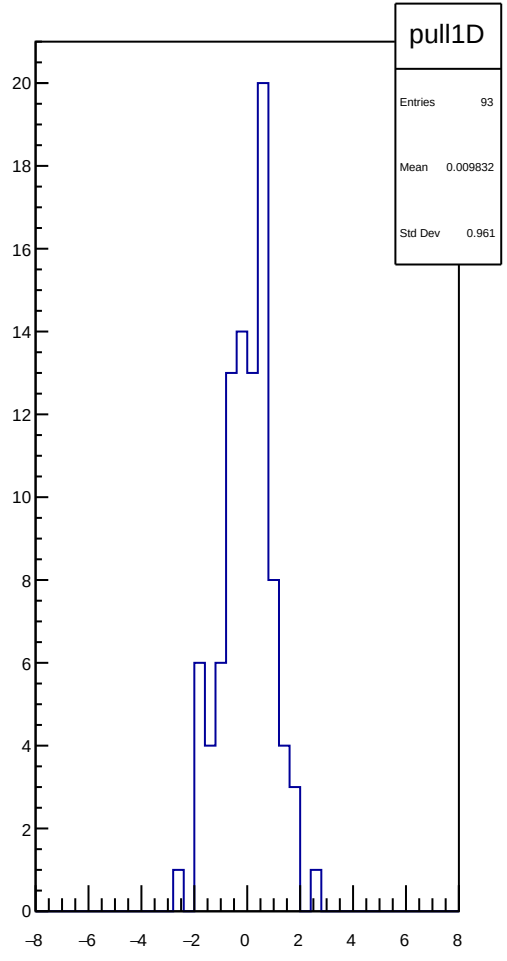

asym_usr_atr1_dd_dit_correction_rms vs run
χ² / ndf 5294 / 92
p0 1311 ± 0.9649
1550
1500
1450
1400
1350
1300
1250
1200
1150

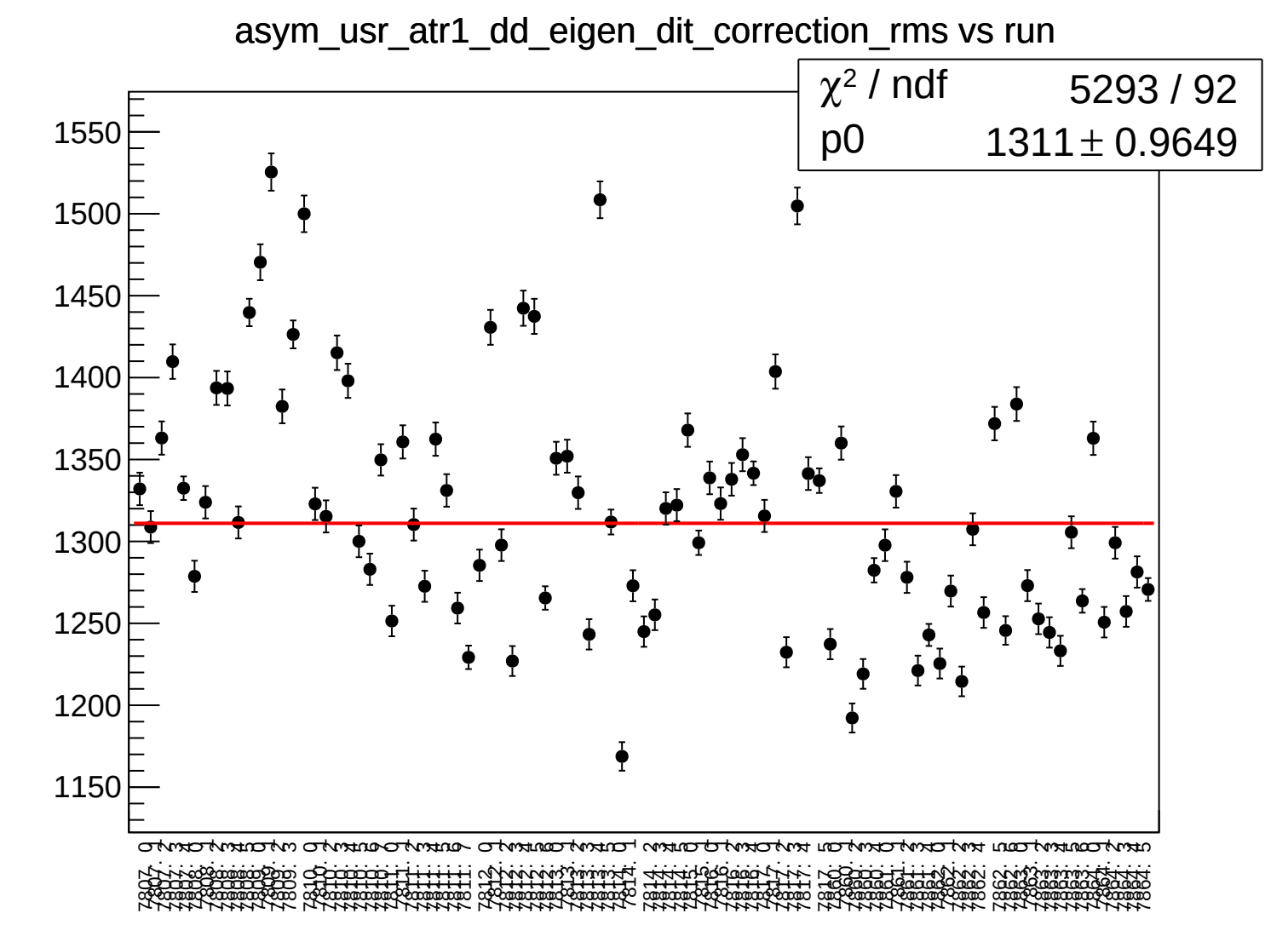

eigen_dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 67.95 / 92
p0 651.9 ± 1377
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 473.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

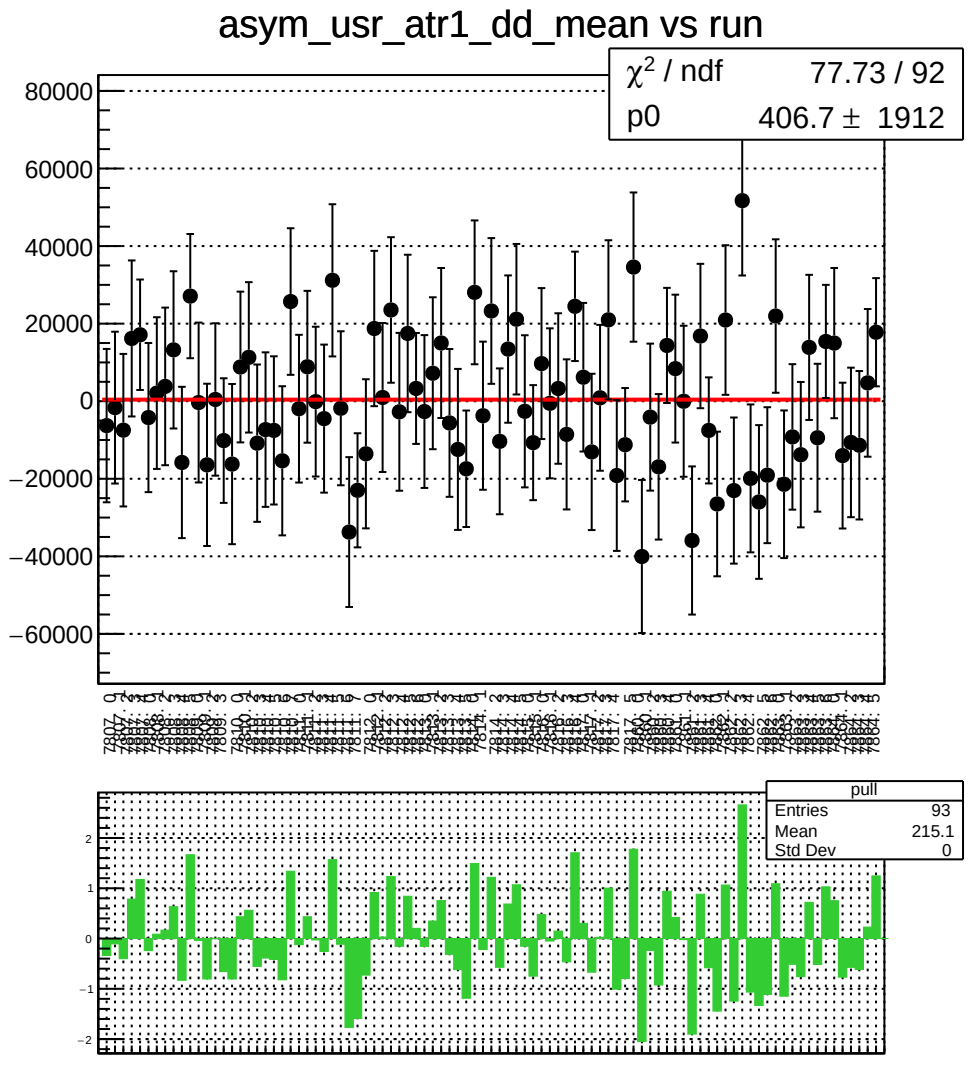

pull1D
Entries 93
Mean −0.006198
Std Dev 0.8547
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

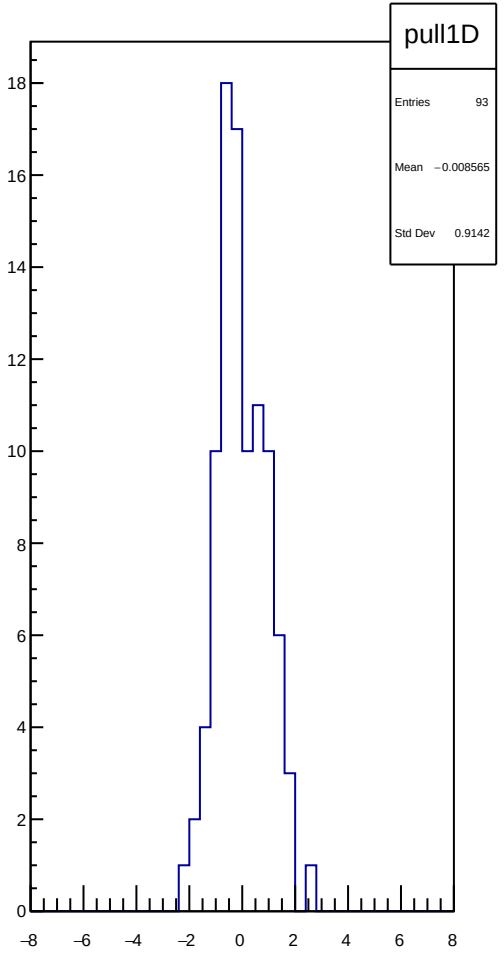

eigen_dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 158.2 / 92
p0 1325 ± 0.9737
1360
1340
1320
1300
1280

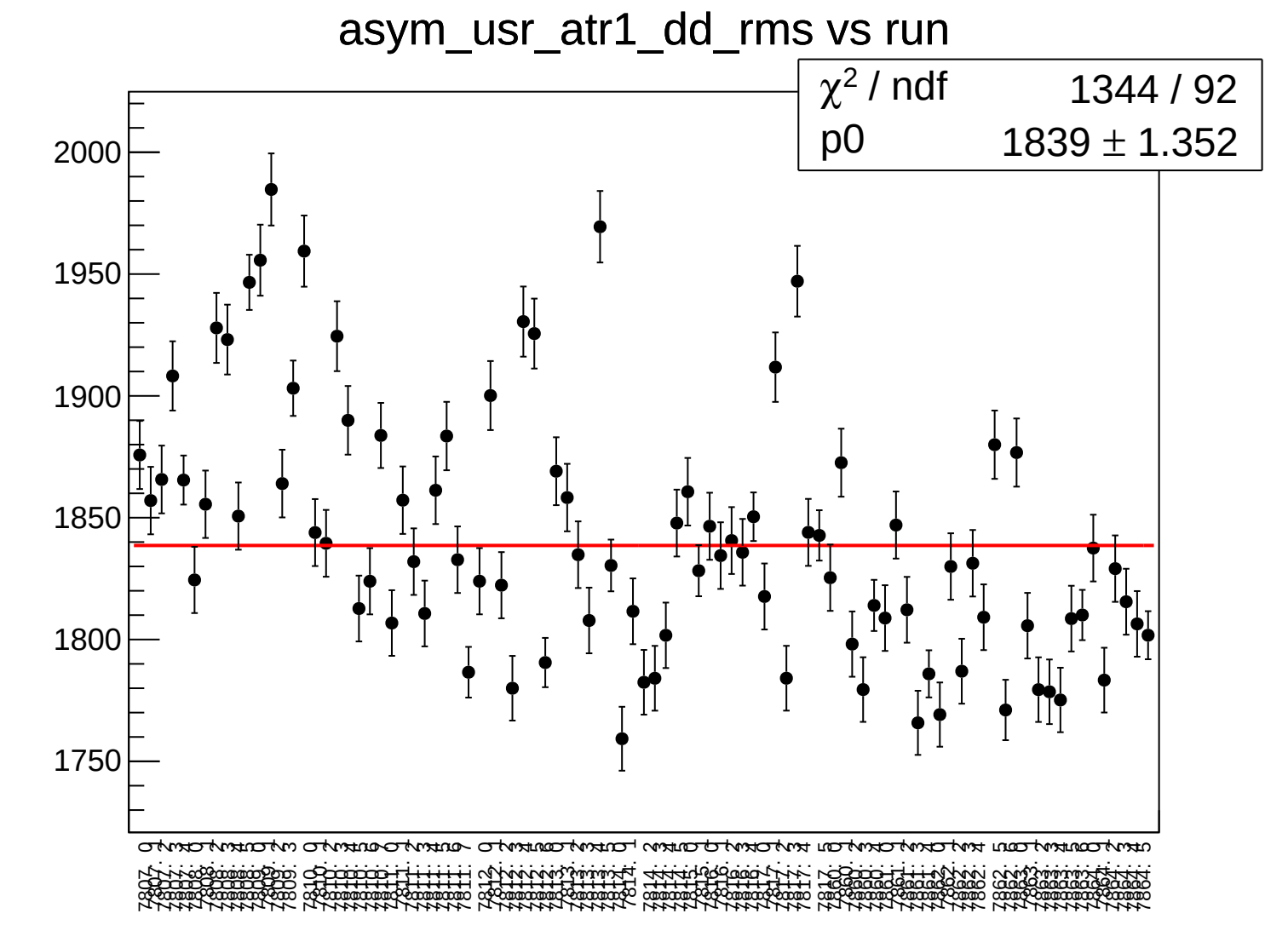

asym_usr_atr1_dd_eigen_dit_correction_mean vs run
χ² / ndf 85.9 / 92
p0 143.6 ± 1365
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −15.23
Std Dev 59.79
3
2
1
0
−1
−2

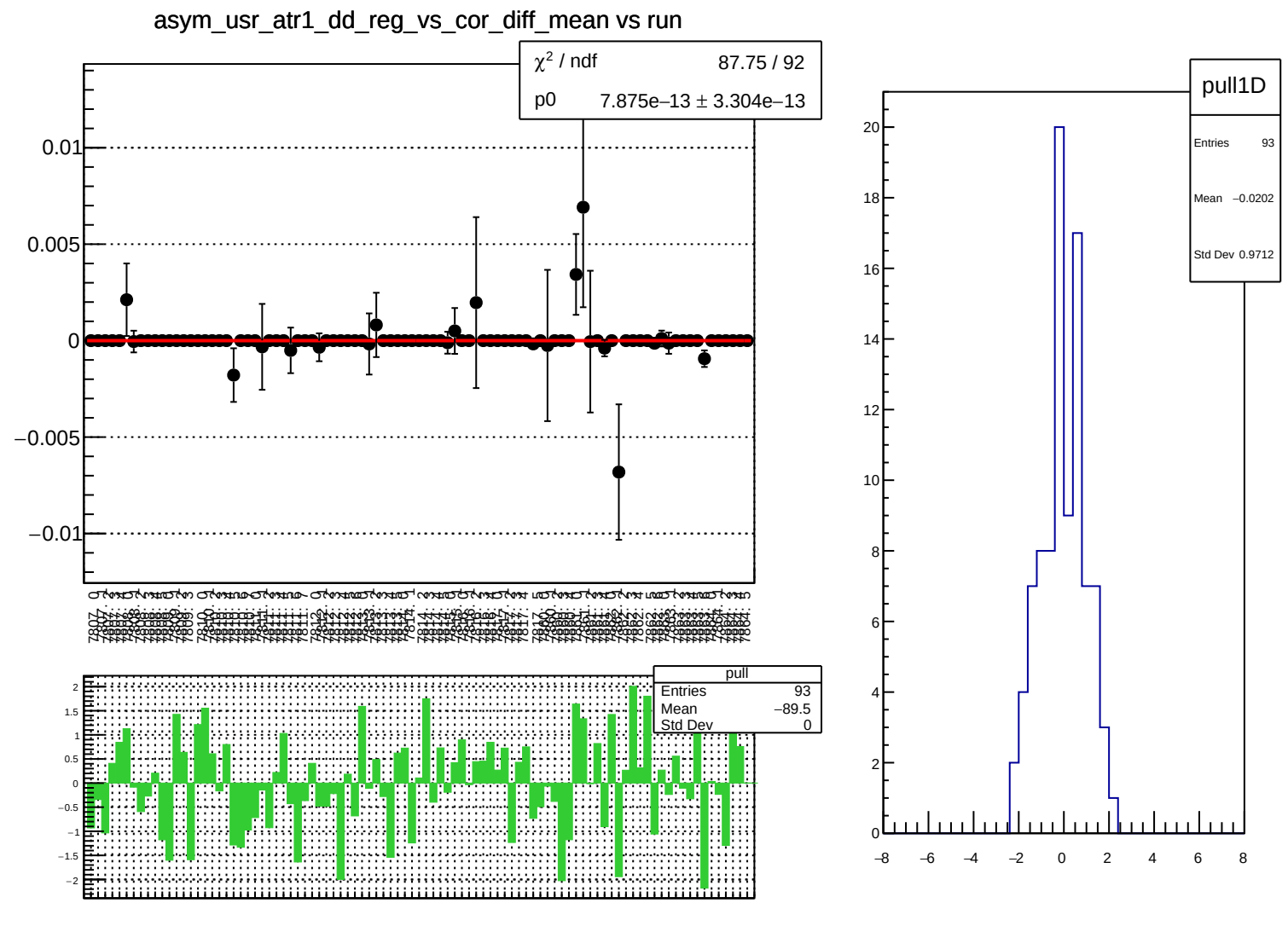

pull1D
Entries 93
Mean 0.009832
Std Dev 0.961
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

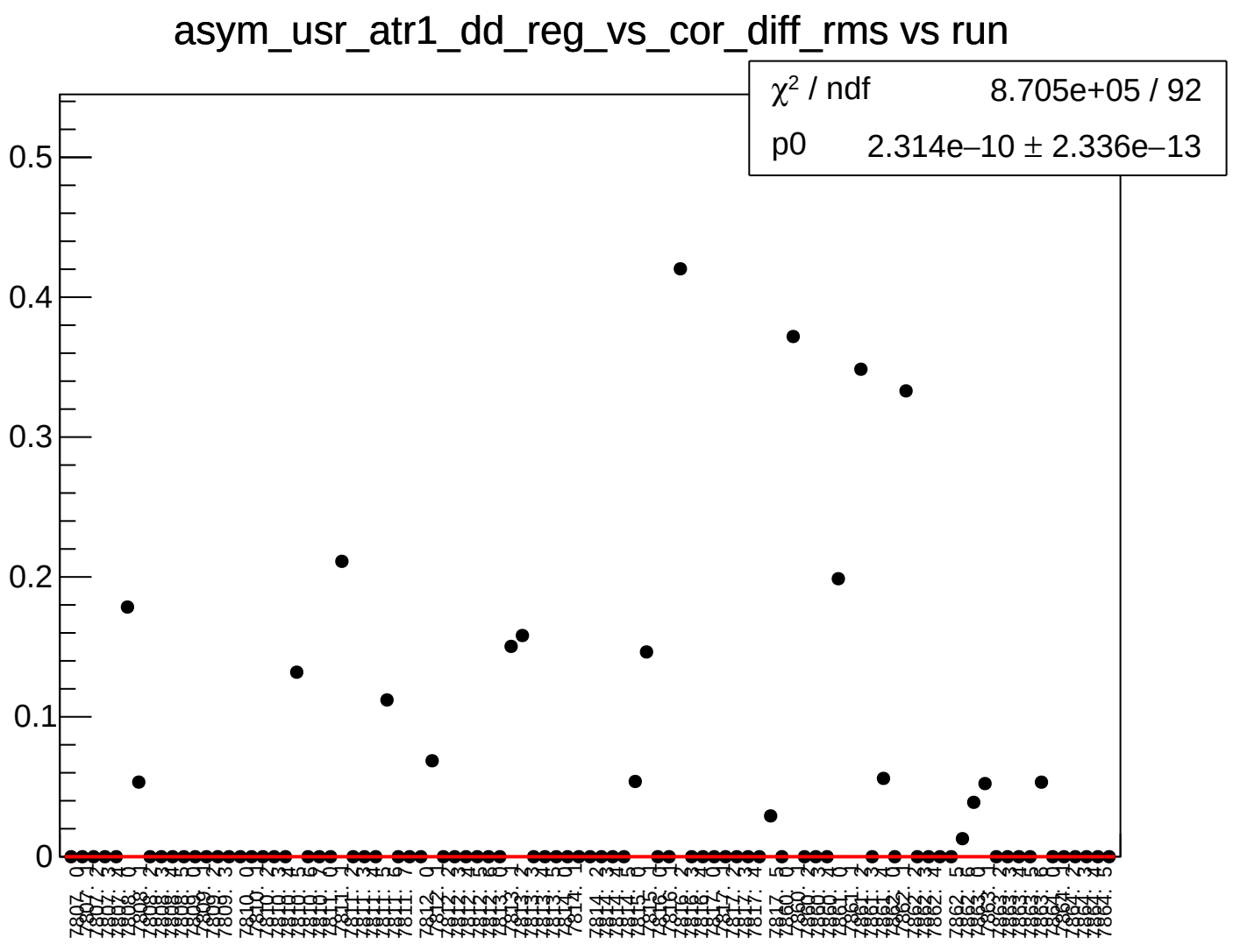

asym_usr_atr1_dd_eigen_dit_correction_rms vs run
χ² / ndf 5293 / 92
p0 1311 ± 0.9649
1550
1500
1450
1400
1350
1300
1250
1200
1150

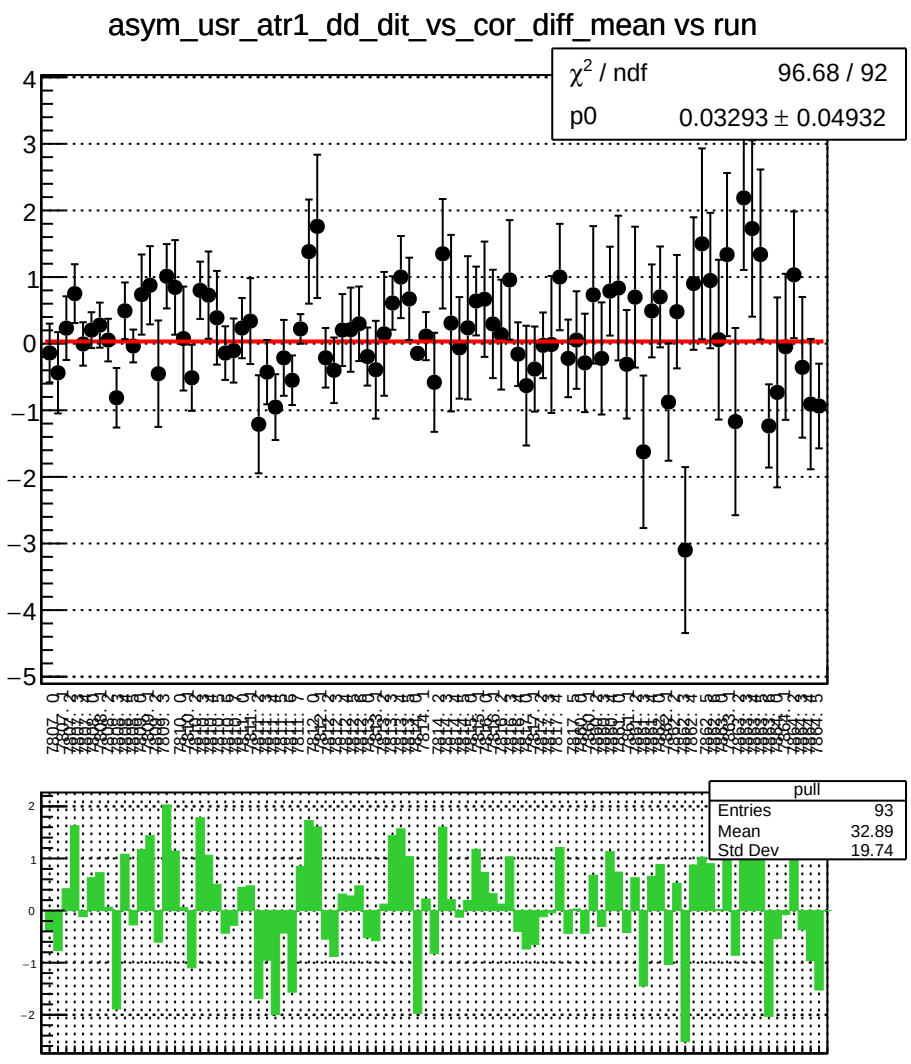

asym_usr_atr1_dd_mean vs run
χ² / ndf 77.73 / 92
p0 406.7 ± 1912
pull
Entries 93
Mean 215.1
Std Dev 0

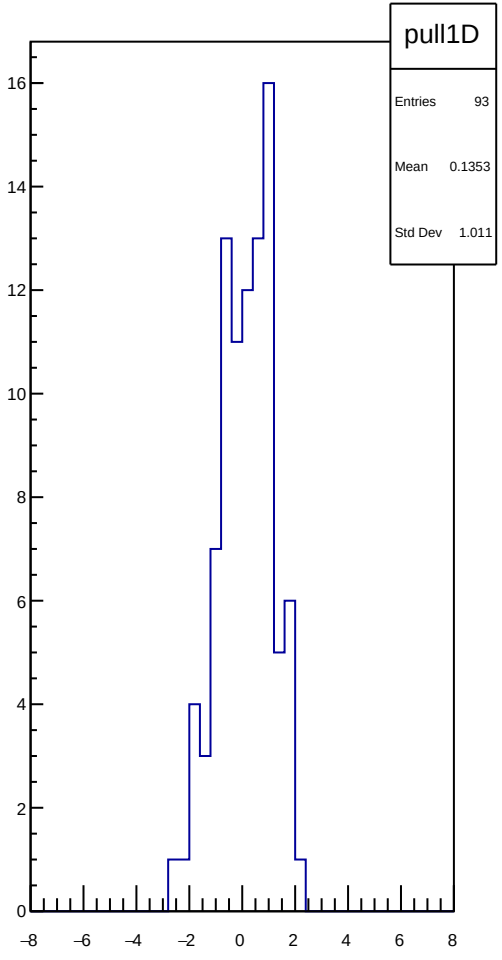

pull1D
Entries 93
Mean −0.008565
Std Dev 0.9142

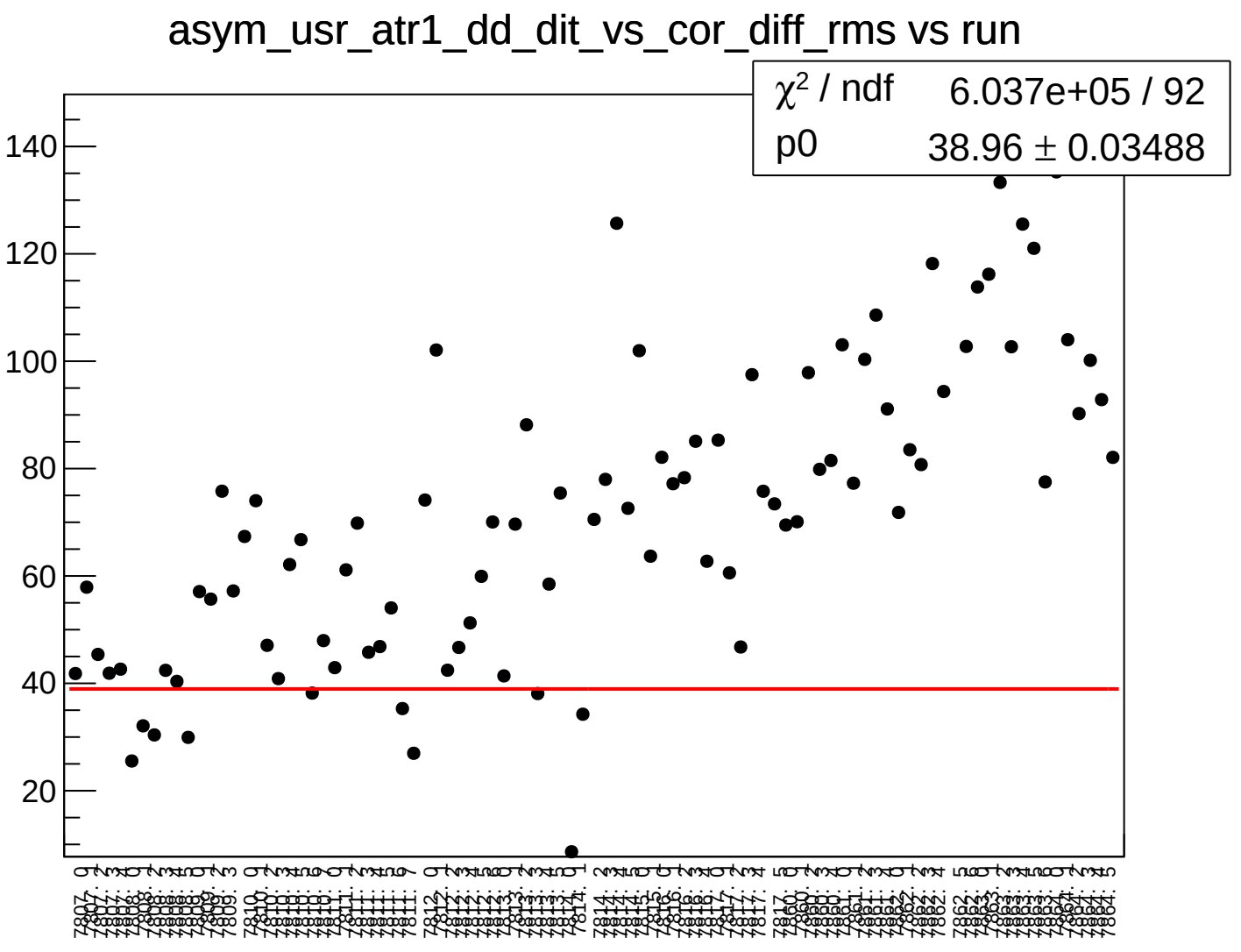

asym_usr_atr1_dd_rms vs run
χ² / ndf 1344 / 92
p0 1839 ± 1.352
2000
1950
1900
1850
1800
1750

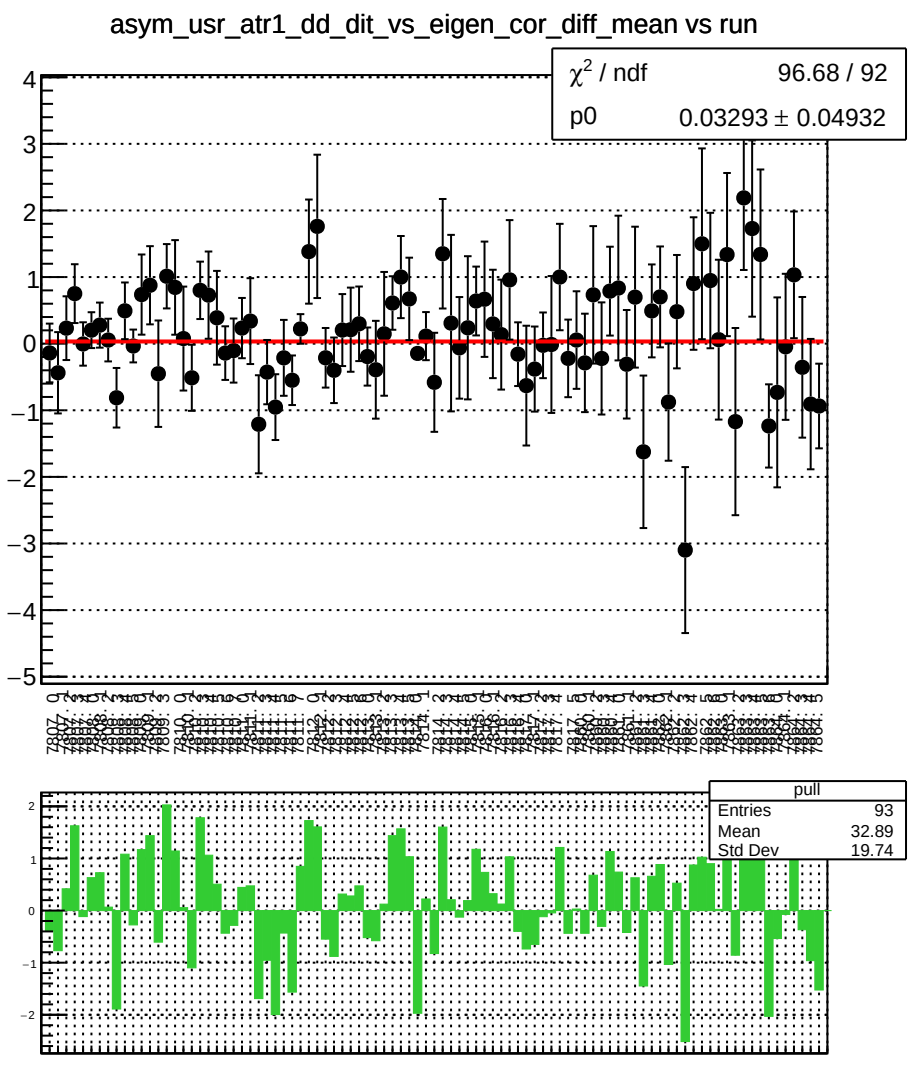

asym_usr_atr1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 87.75 / 92
p0 7.875e−13 ± 3.304e−13
0.01
0.005
0
−0.005
−0.01
pull
Entries 93
Mean −89.5
Std Dev 0
pull1D
Entries 93
Mean −0.0202
Std Dev 0.9712

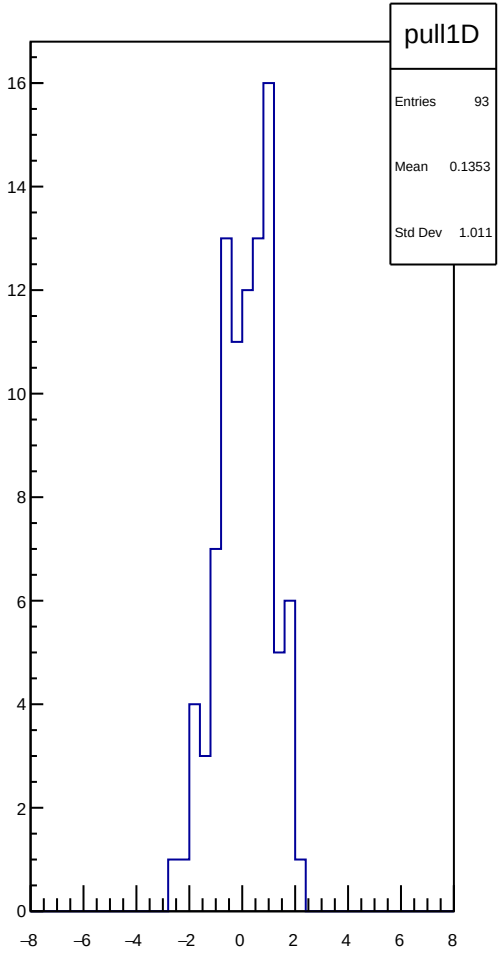

asym_usr_atr1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.705e+05 / 92
p0 2.314e−10 ± 2.336e−13
0.5
0.4
0.3
0.2
0.1
0

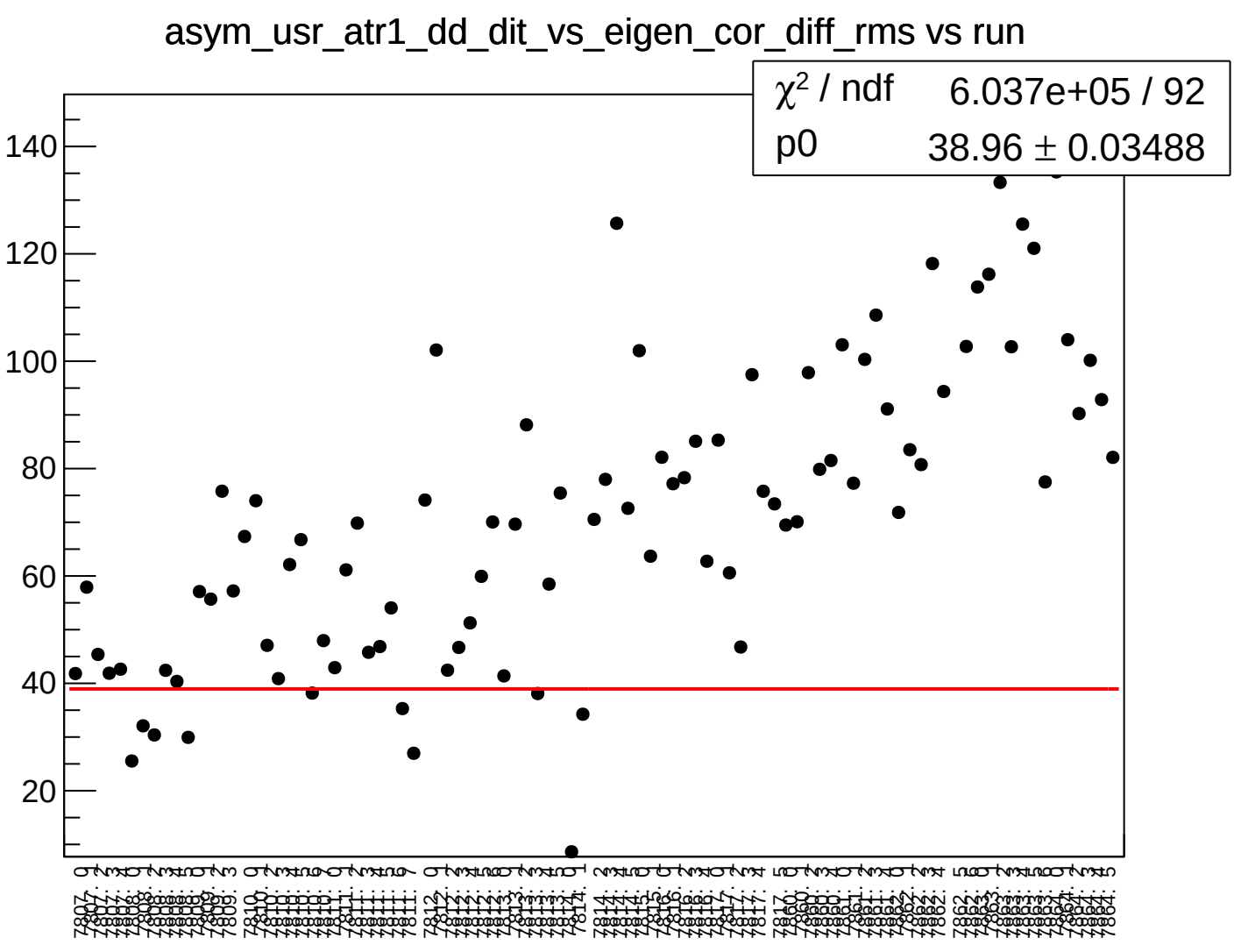

asym_usr_atr1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 96.68 / 92
p0 0.03293 ± 0.04932
pull
Entries 93
Mean 32.89
Std Dev 19.74

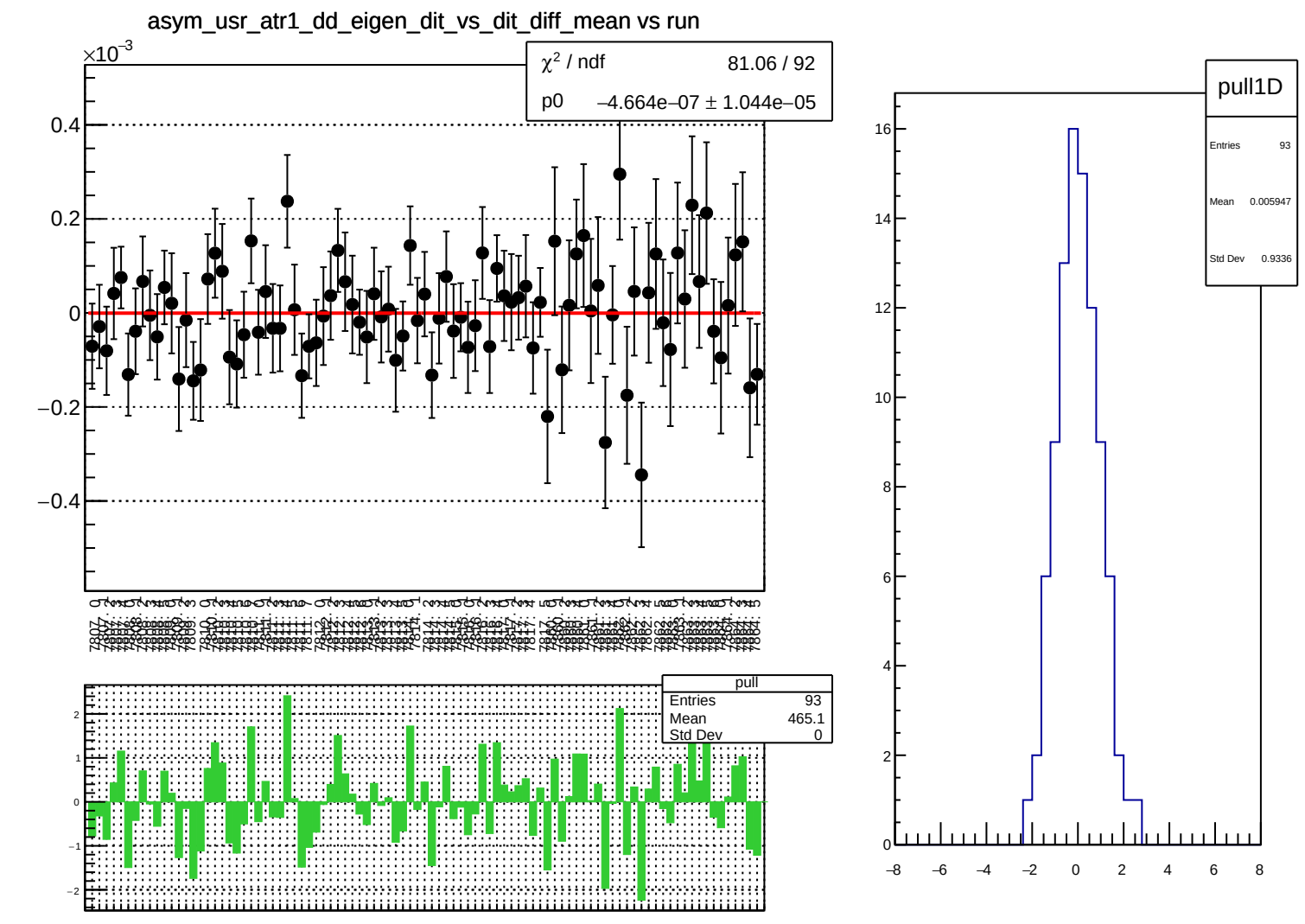

pull1D
Entries 93
Mean 0.1353
Std Dev 1.011

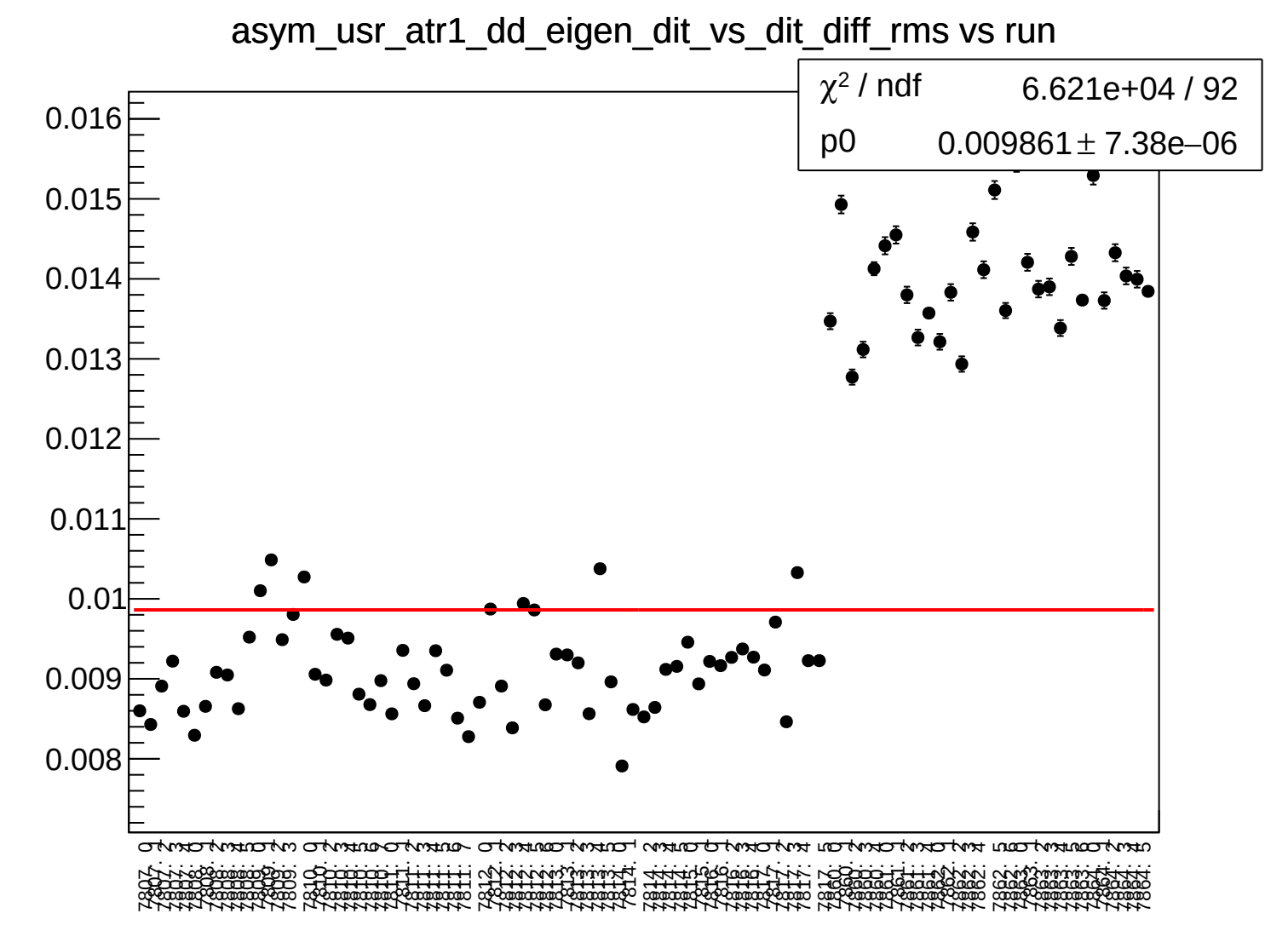

asym_usr_atr1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.037e+05 / 92
p0 38.96 ± 0.03488
140
120
100
80
60
40
20

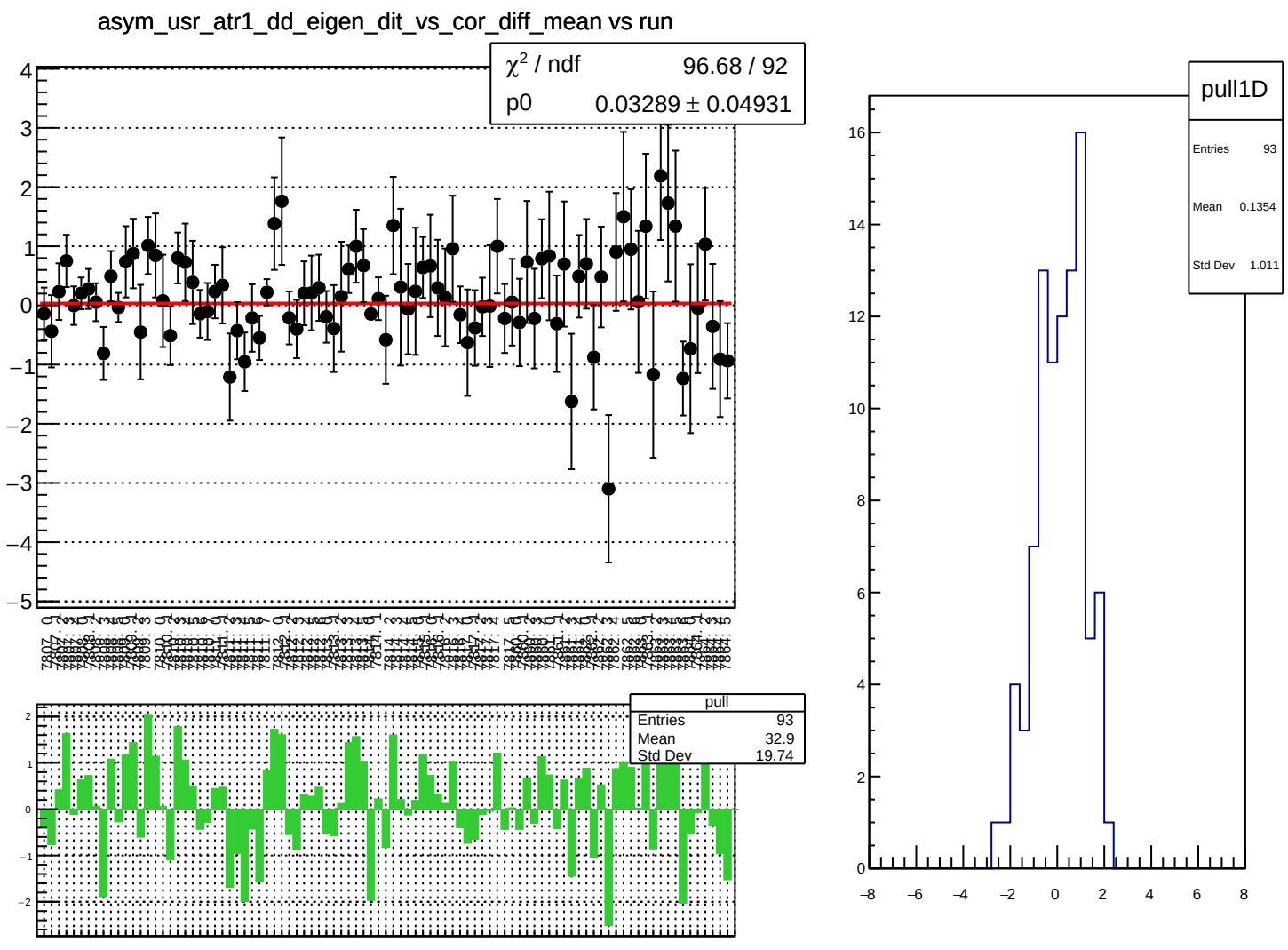

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.68 / 92
p0 0.03293 ± 0.04932
pull
Entries 93
Mean 32.89
Std Dev 19.74

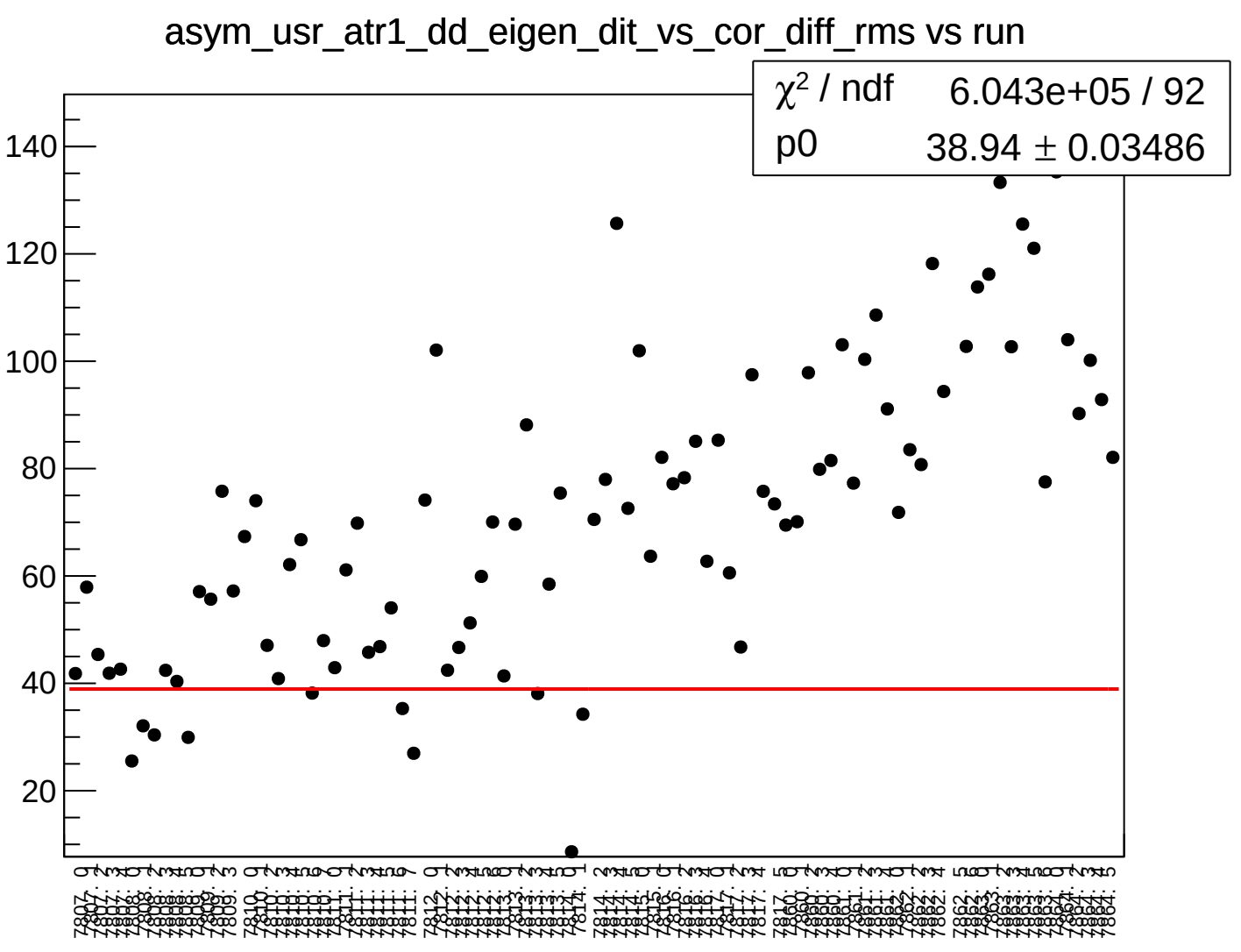

pull1D
Entries 93
Mean 0.1353
Std Dev 1.011

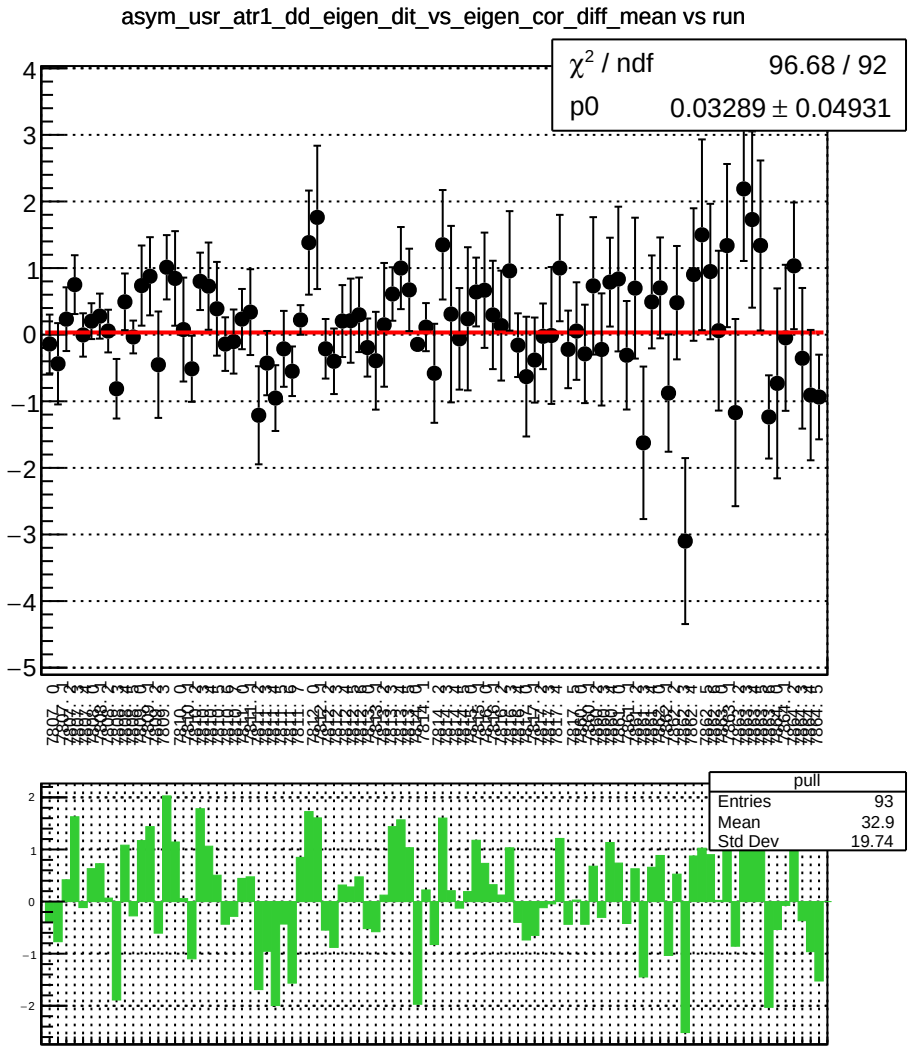

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.037e+05 / 92
p0 38.96 ± 0.03488
140
120
100
80
60
40
20

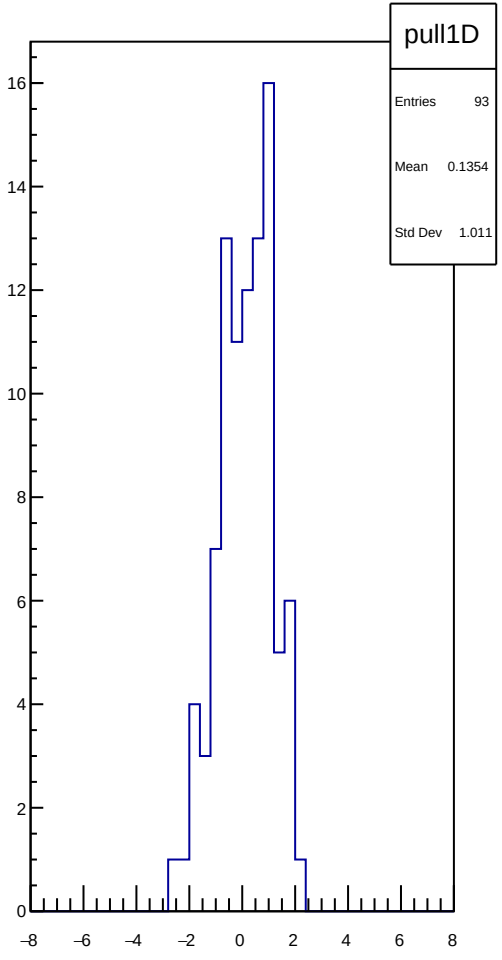

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 81.06 / 92
p0 −4.664e−07 ± 1.044e−05
0.4
0.2
0
−0.2
−0.4
pull
Entries 93
Mean 465.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.005947
Std Dev 0.9336
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

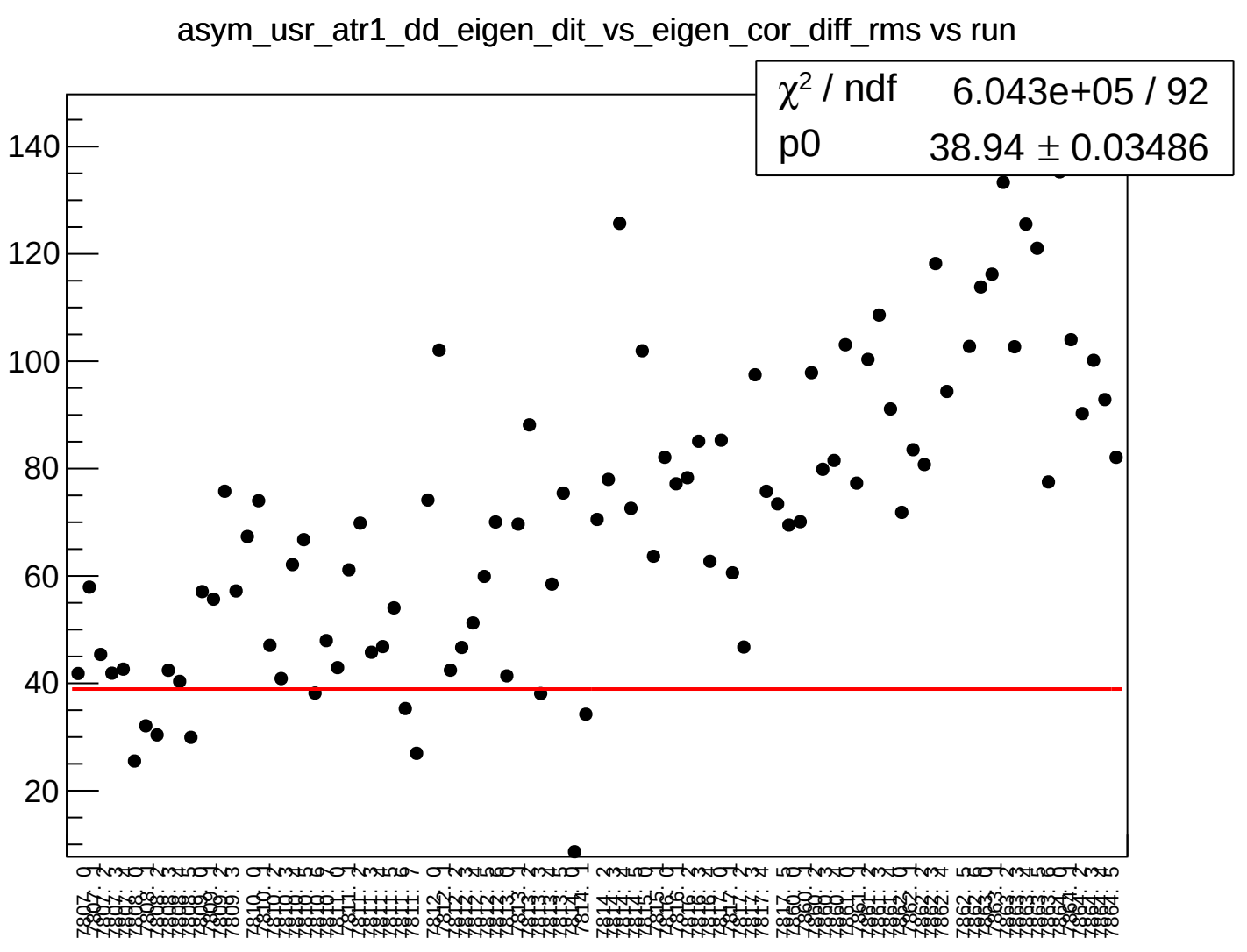

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.621e+04 / 92
p0 0.009861 ± 7.38e−06
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008

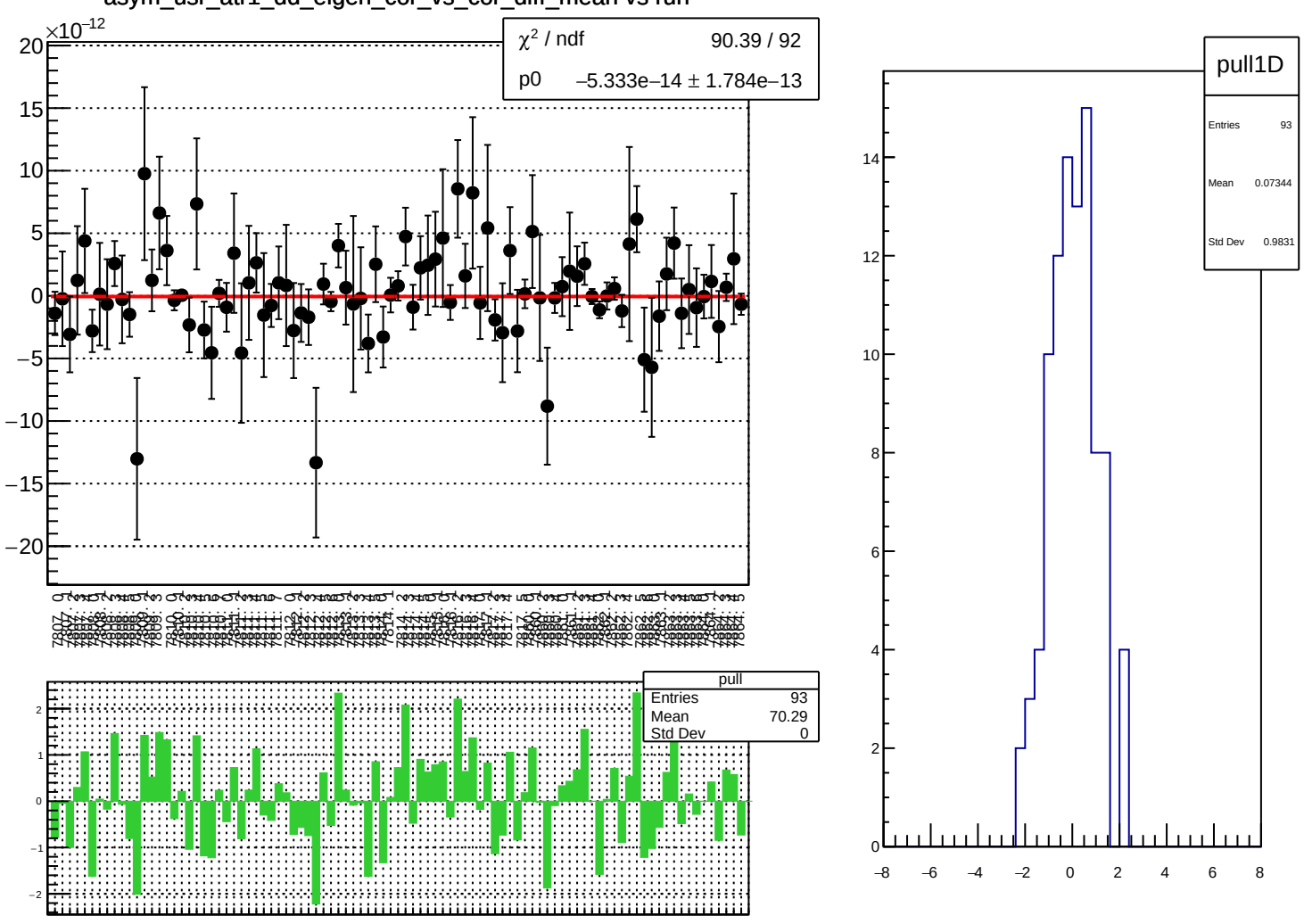

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 96.68 / 92
p0 0.03289 ± 0.04931
pull
Entries 93
Mean 32.9
Std Dev 19.74
pull1D
Entries 93
Mean 0.1354
Std Dev 1.011

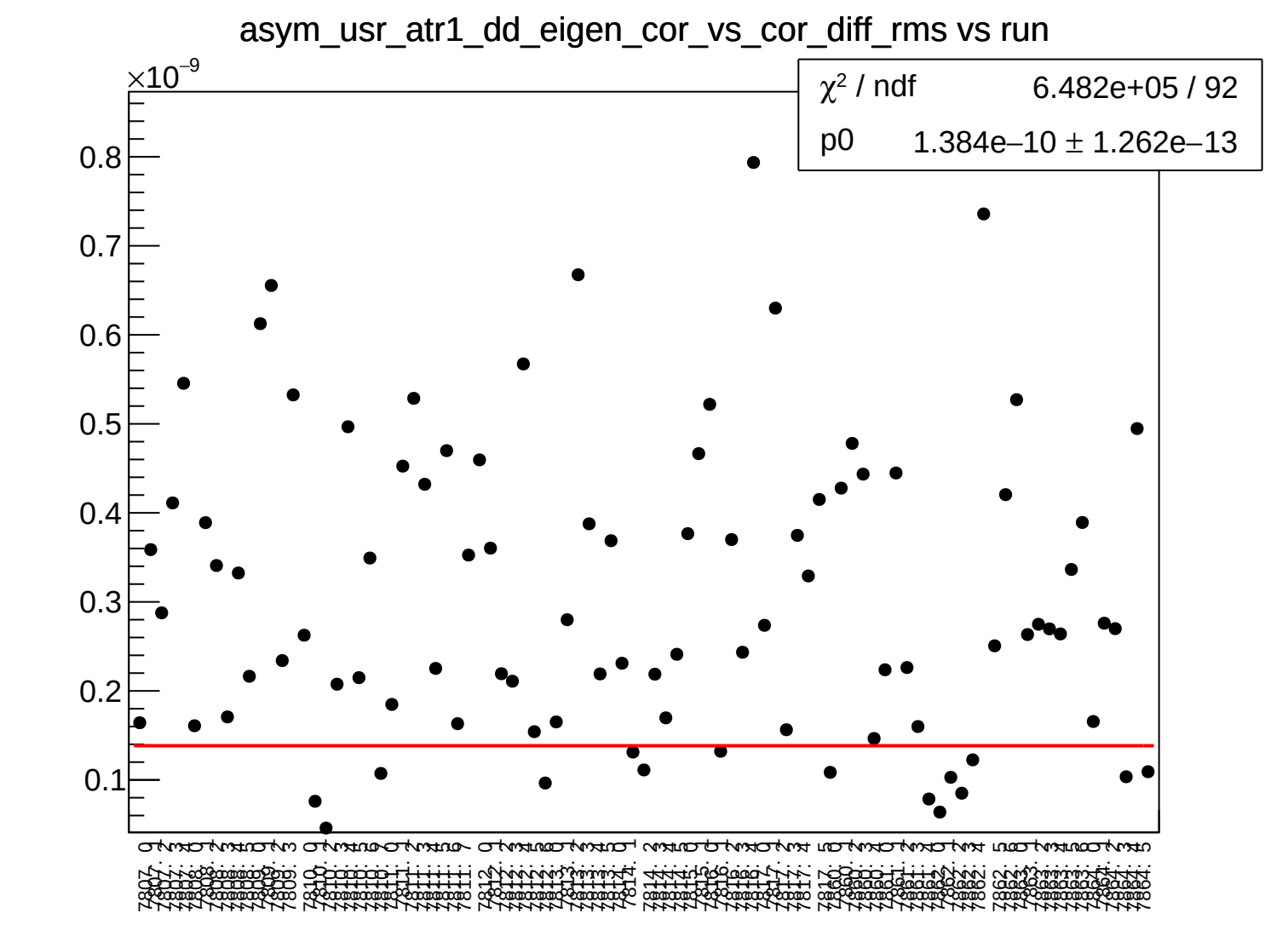

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.043e+05 / 92
p0 38.94 ± 0.03486
140
120
100
80
60
40
20

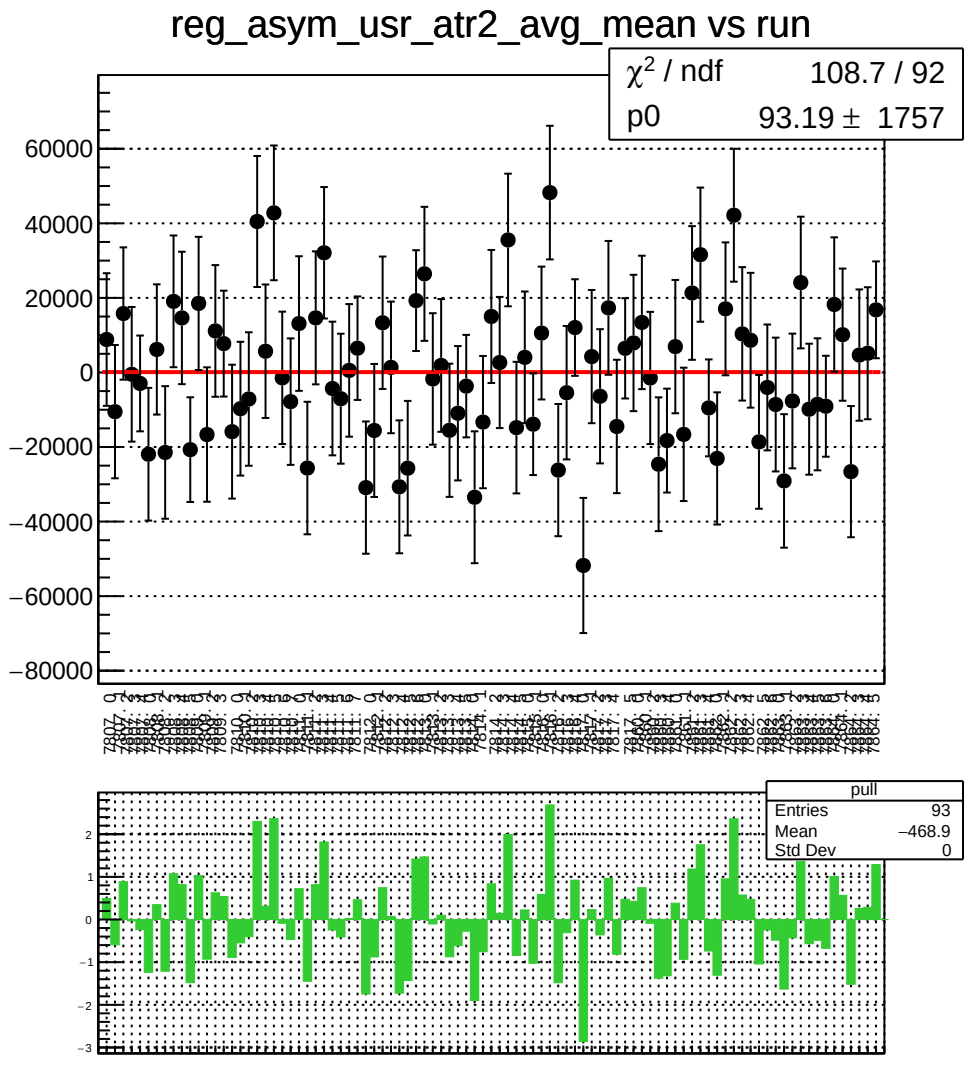

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.68 / 92
p0 0.03289 ± 0.04931
pull
Entries 93
Mean 32.9
Std Dev 19.74

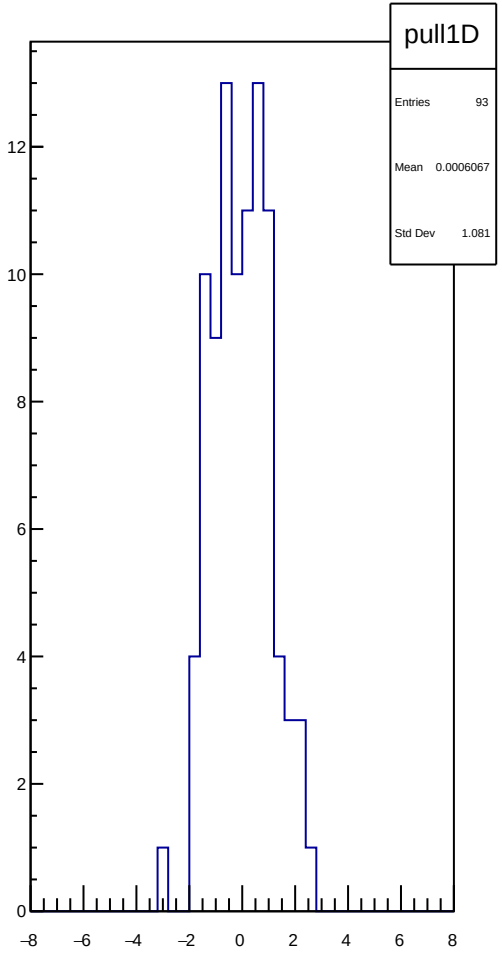

pull1D
Entries 93
Mean 0.1354
Std Dev 1.011

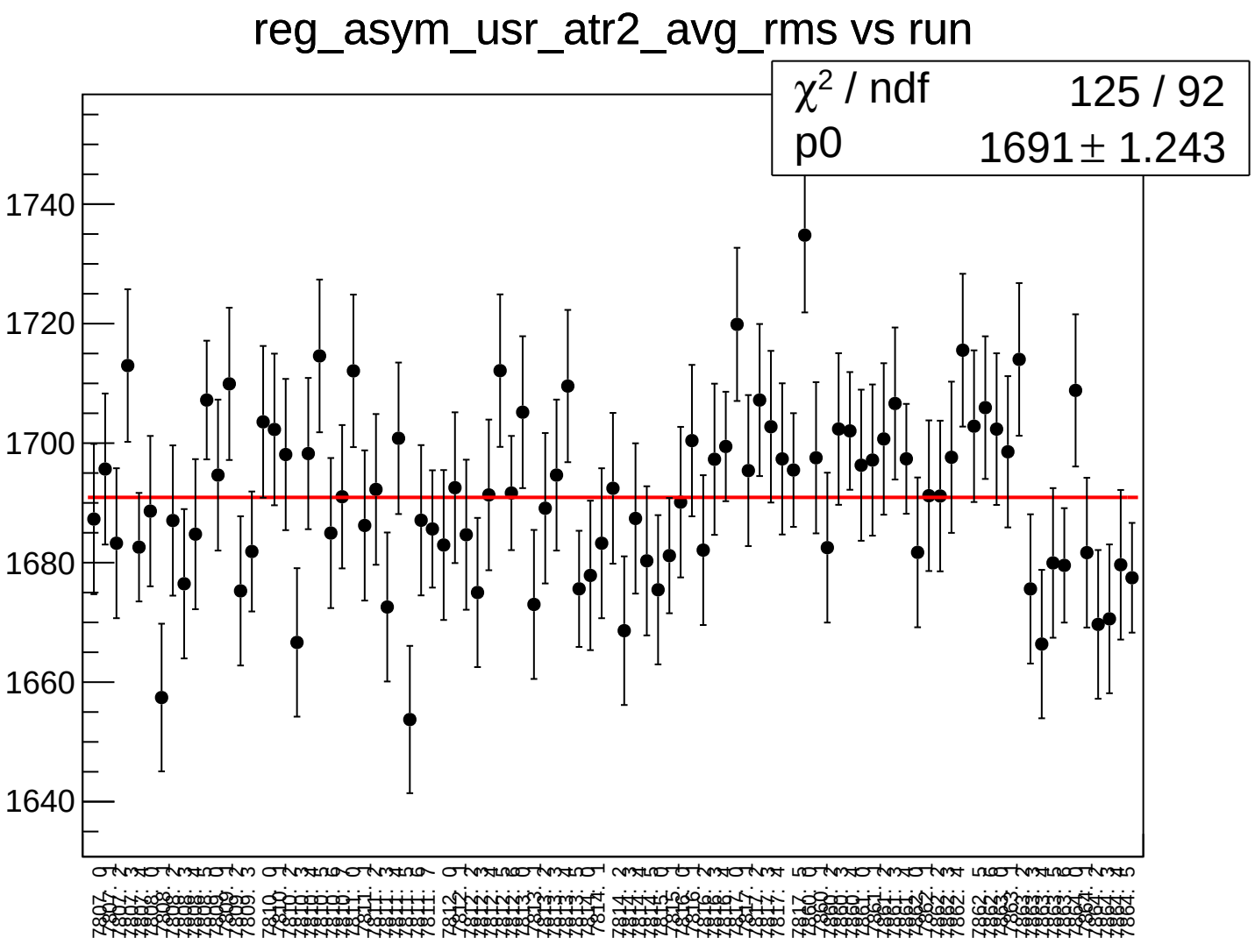

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.043e+05 / 92
p0 38.94 ± 0.03486
140
120
100
80
60
40
20

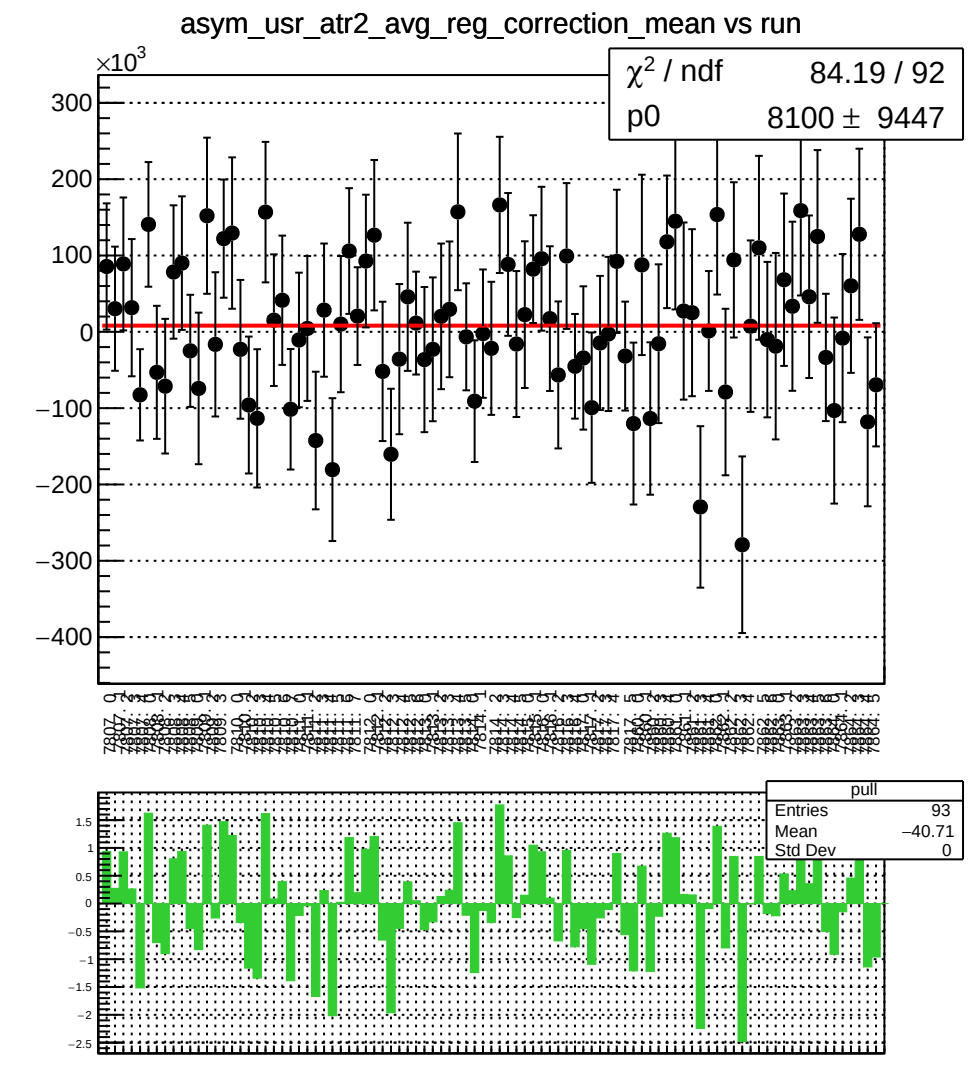

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.39 / 92
p0 −5.333e−14 ± 1.784e−13
pull
Entries 93
Mean 70.29
Std Dev 0
pull1D
Entries 93
Mean 0.07344
Std Dev 0.9831

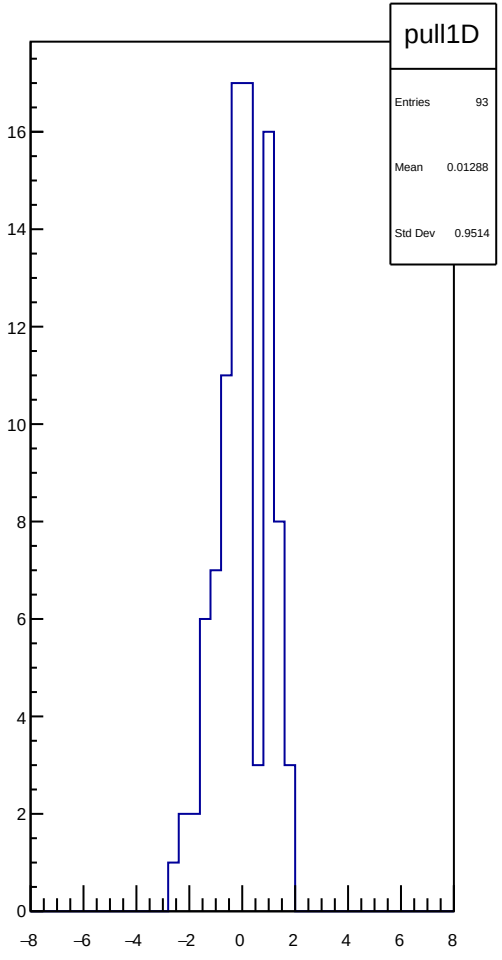

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.482e+05 / 92
p0 1.384e−10 ± 1.262e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

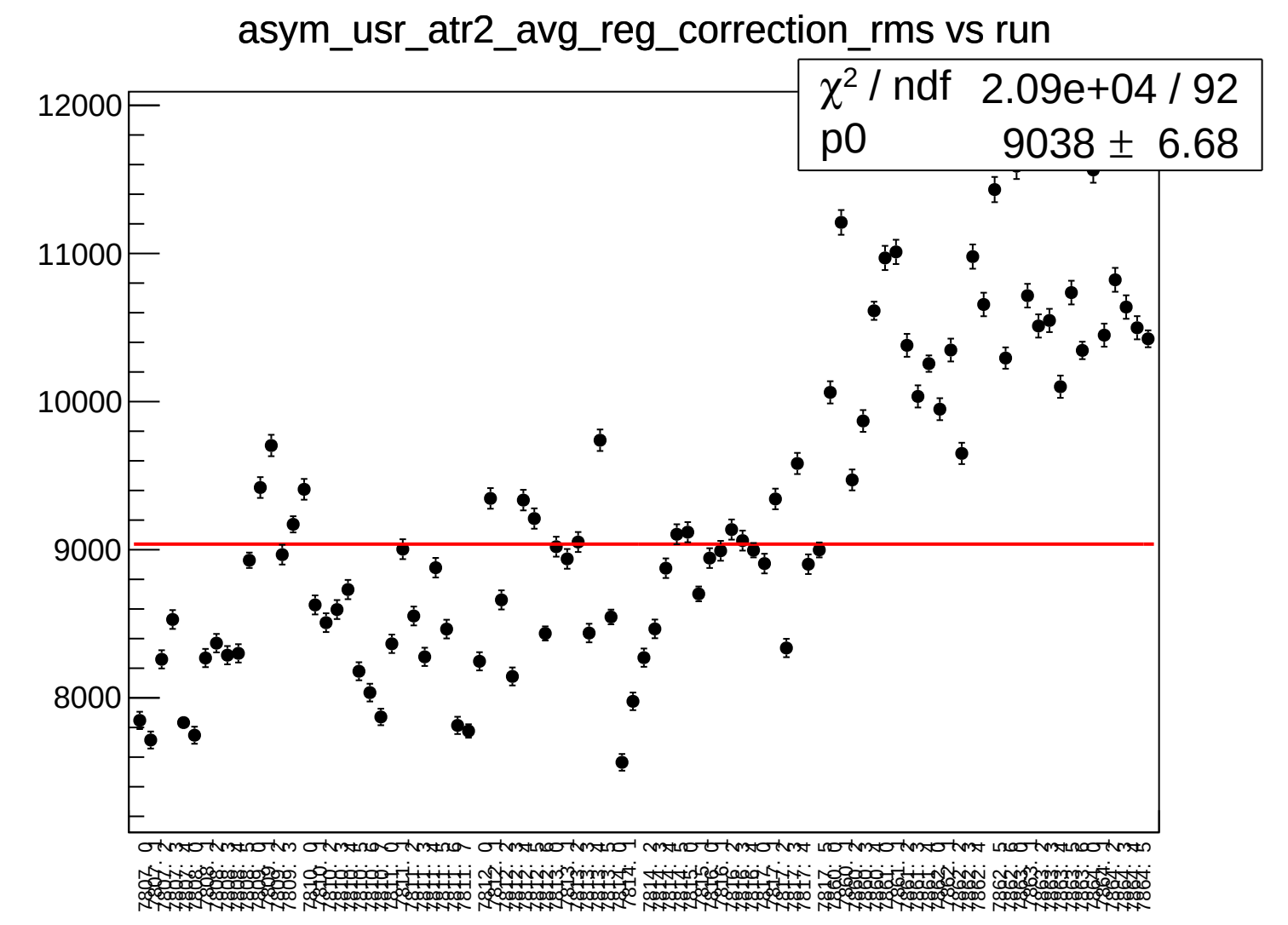

reg_asym_usr_atr2_avg_mean vs run
χ² / ndf 108.7 / 92
p0 93.19 ± 1757
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean −468.9
Std Dev 0
2
1
0
−1
−2
−3

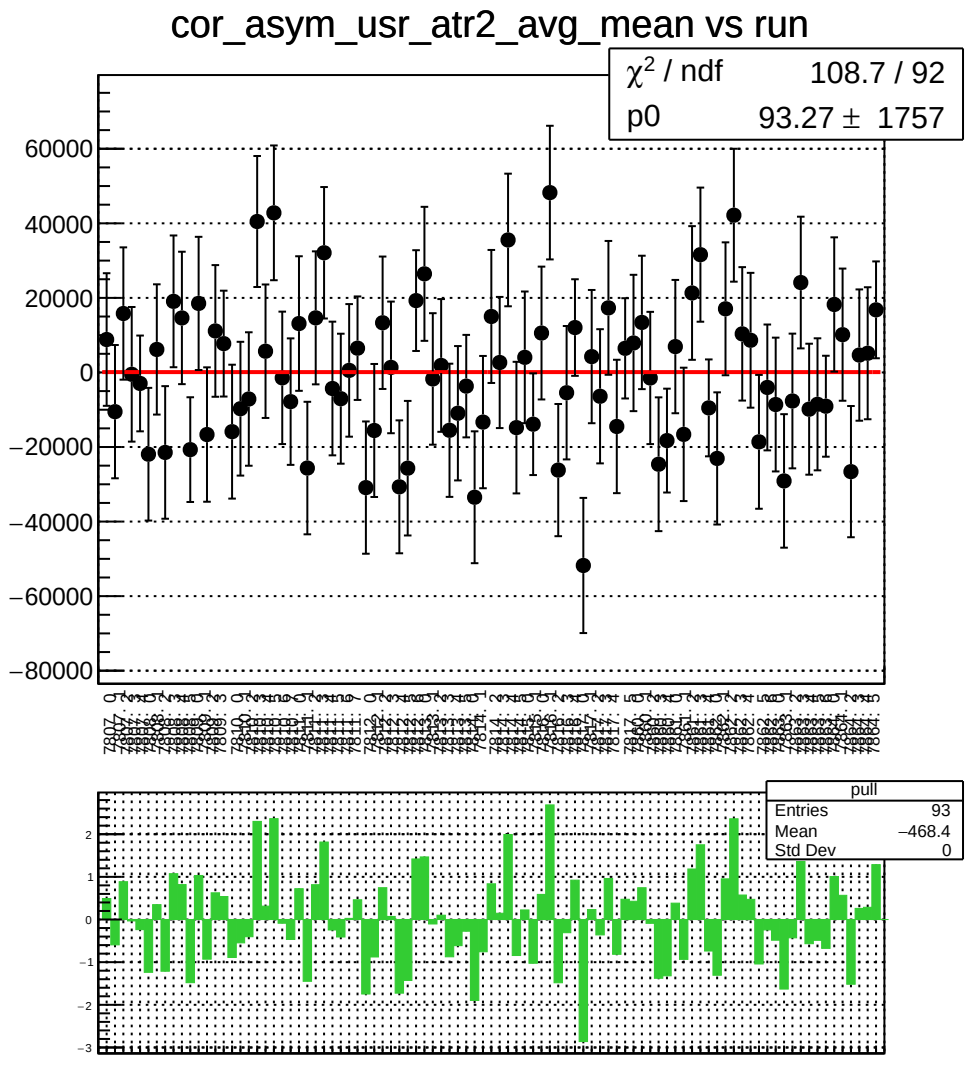

pull1D
Entries 93
Mean 0.0006067
Std Dev 1.081
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

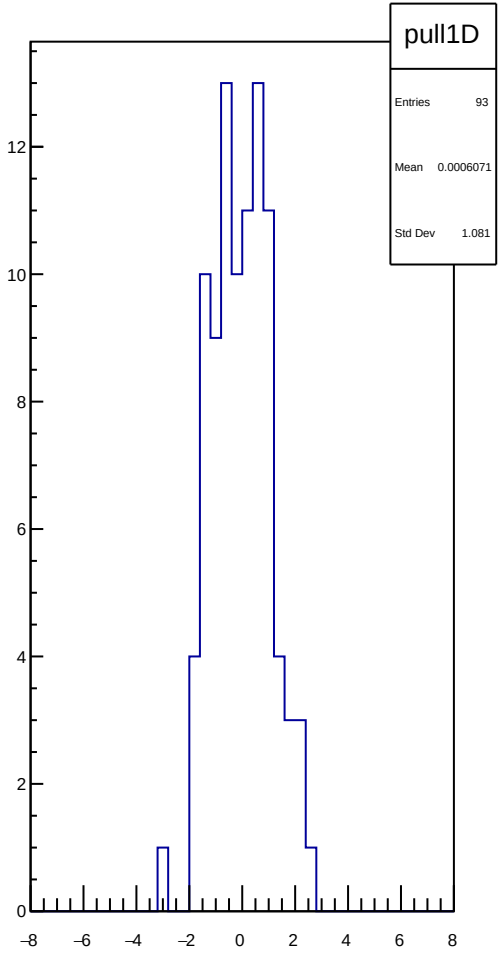

reg_asym_usr_atr2_avg_rms vs run
χ² / ndf 125 / 92
p0 1691 ± 1.243
1740
1720
1700
1680
1660
1640

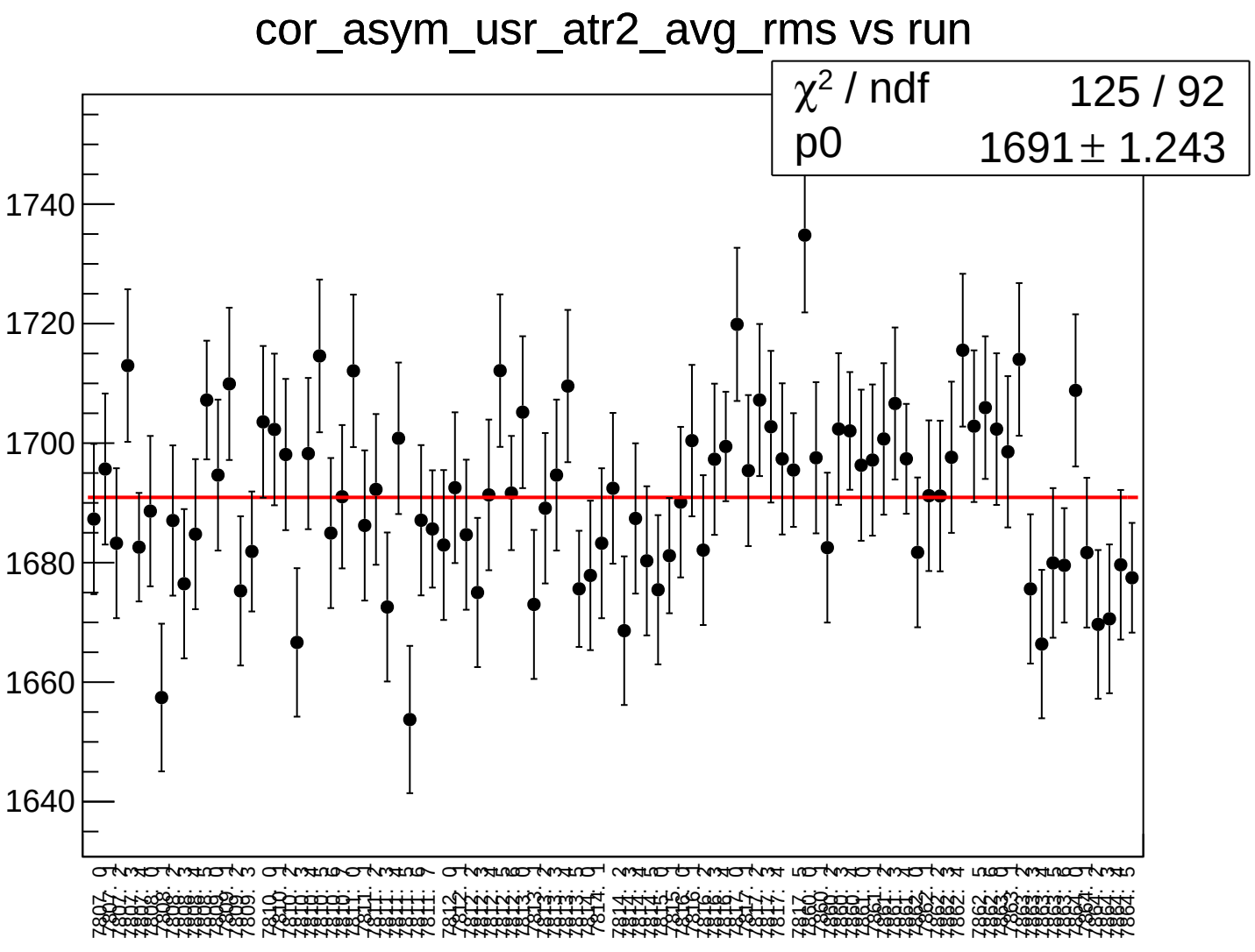

asym_usr_atr2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 84.19 / 92
p0 8100 ± 9447
pull
Entries 93
Mean −40.71
Std Dev 0

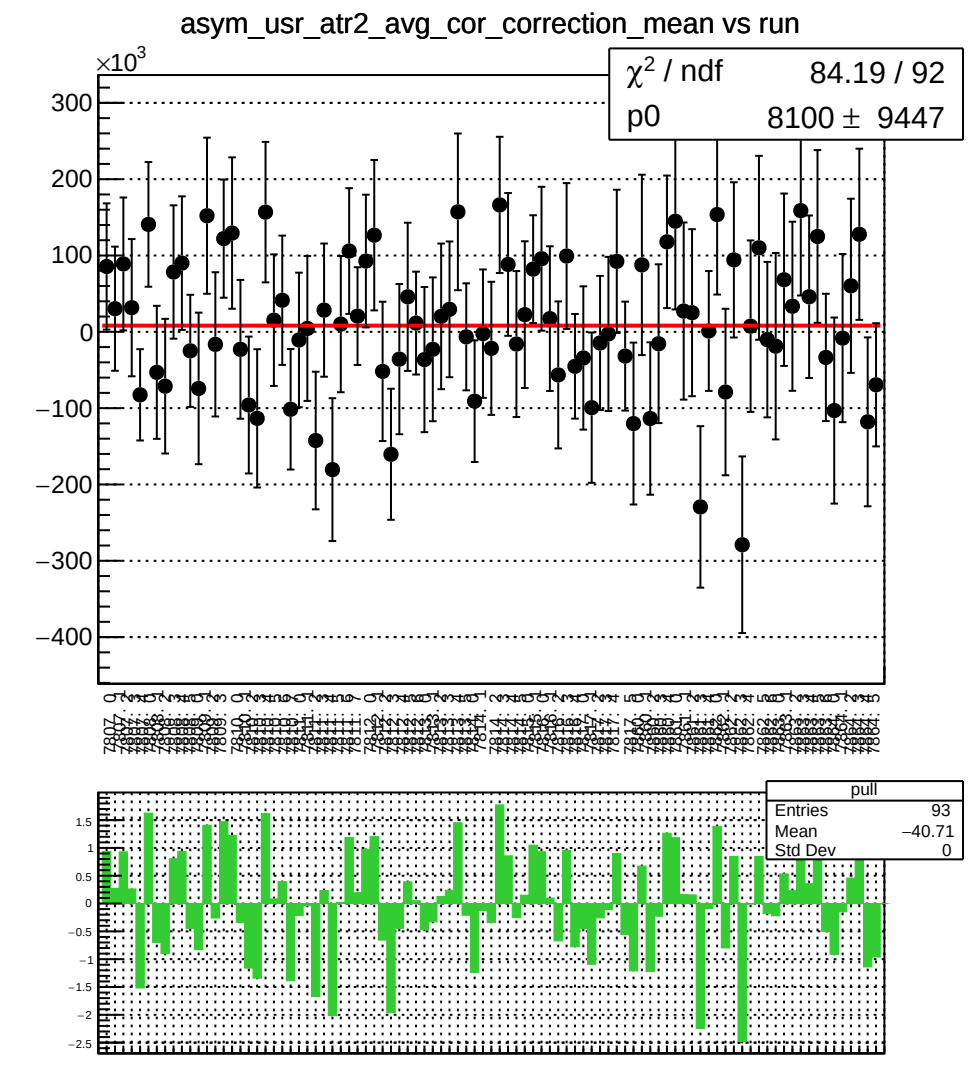

pull1D
Entries 93
Mean 0.01288
Std Dev 0.9514

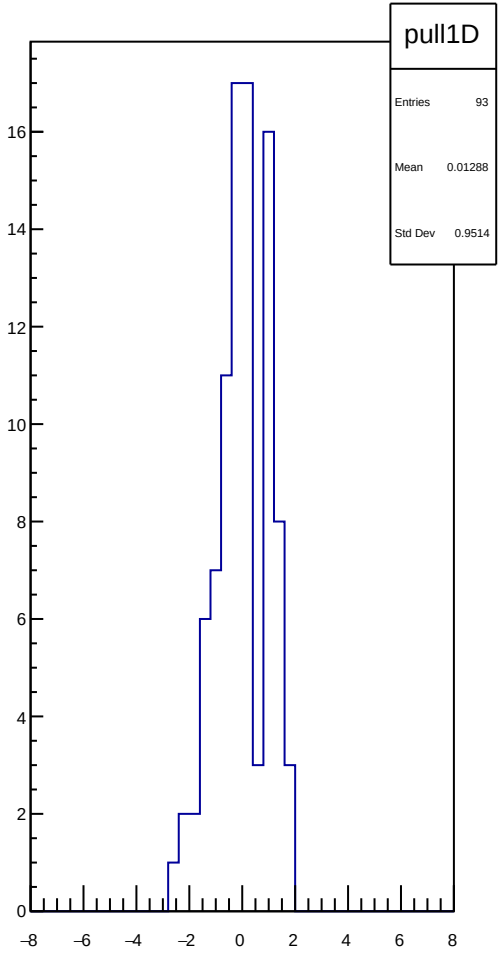

asym_usr_atr2_avg_reg_correction_rms vs run
χ² / ndf 2.09e+04 / 92
p0 9038 ± 6.68
12000
11000
10000
9000
8000

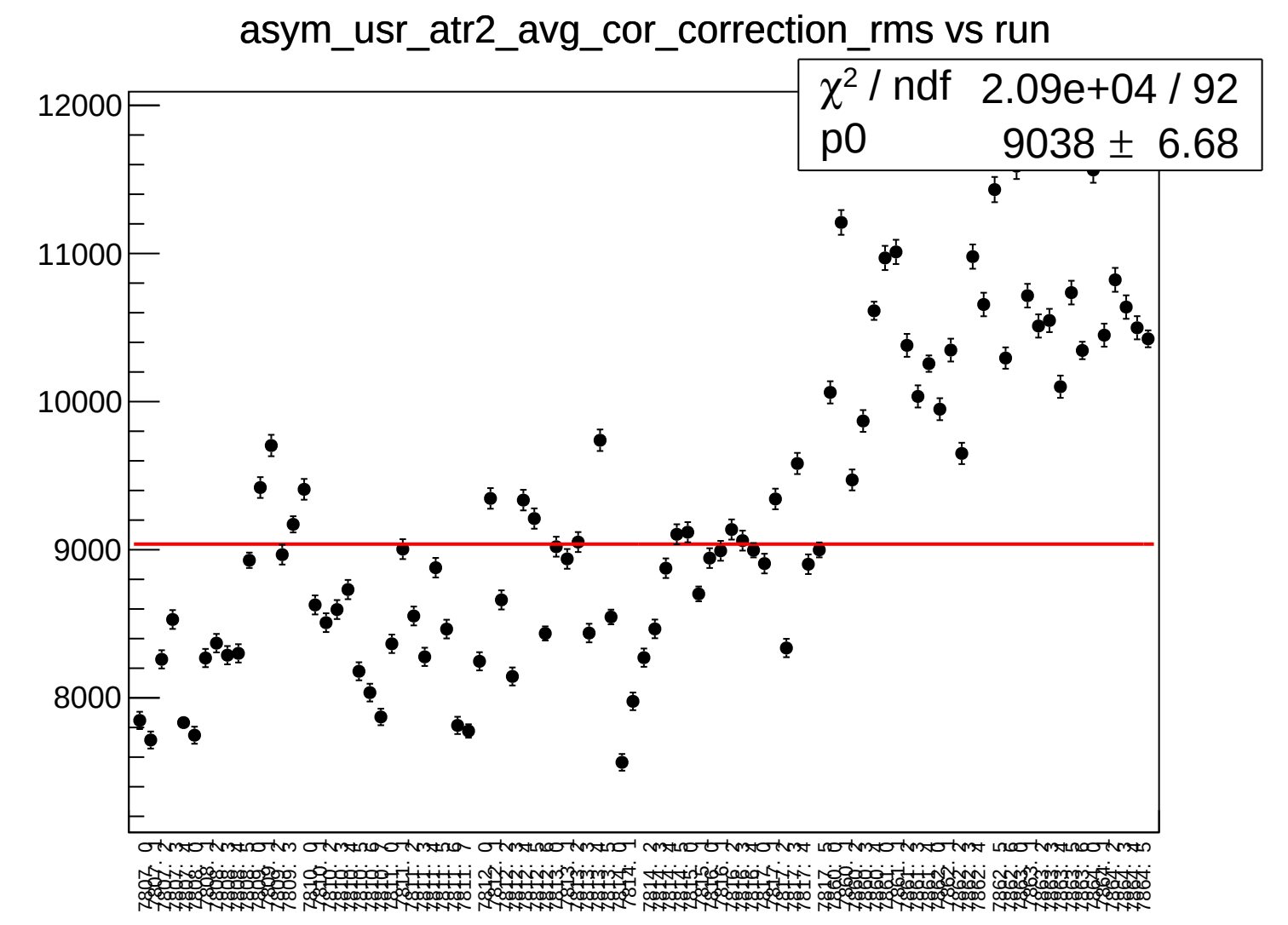

cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 108.7 / 92
p0 93.27 ± 1757
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean −468.4
Std Dev 0
2
1
0
−1
−2
−3

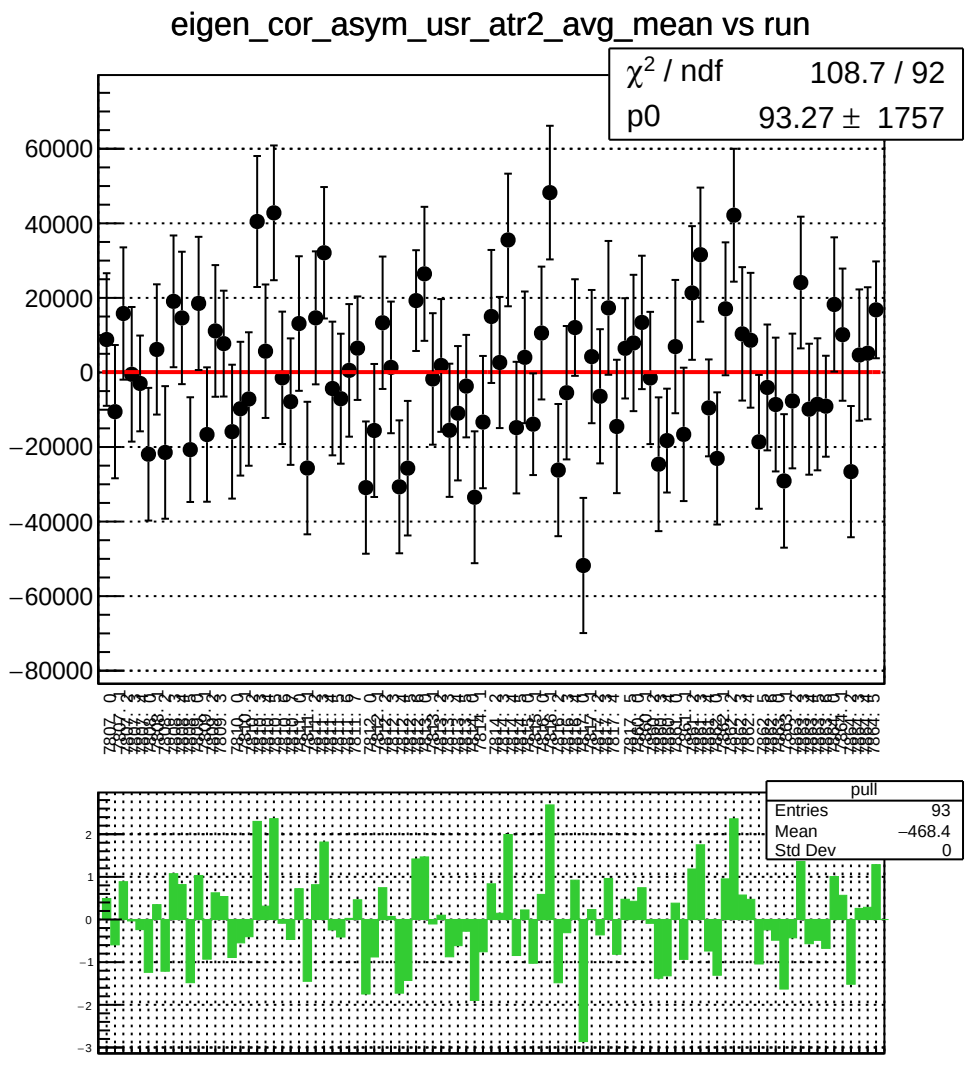

pull1D
Entries 93
Mean 0.0006071
Std Dev 1.081
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

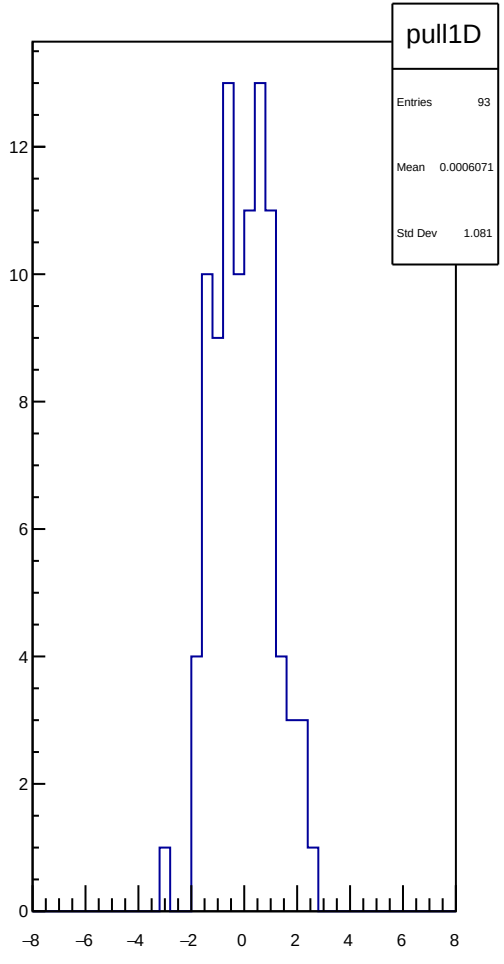

cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 125 / 92
p0 1691 ± 1.243
1740
1720
1700
1680
1660
1640

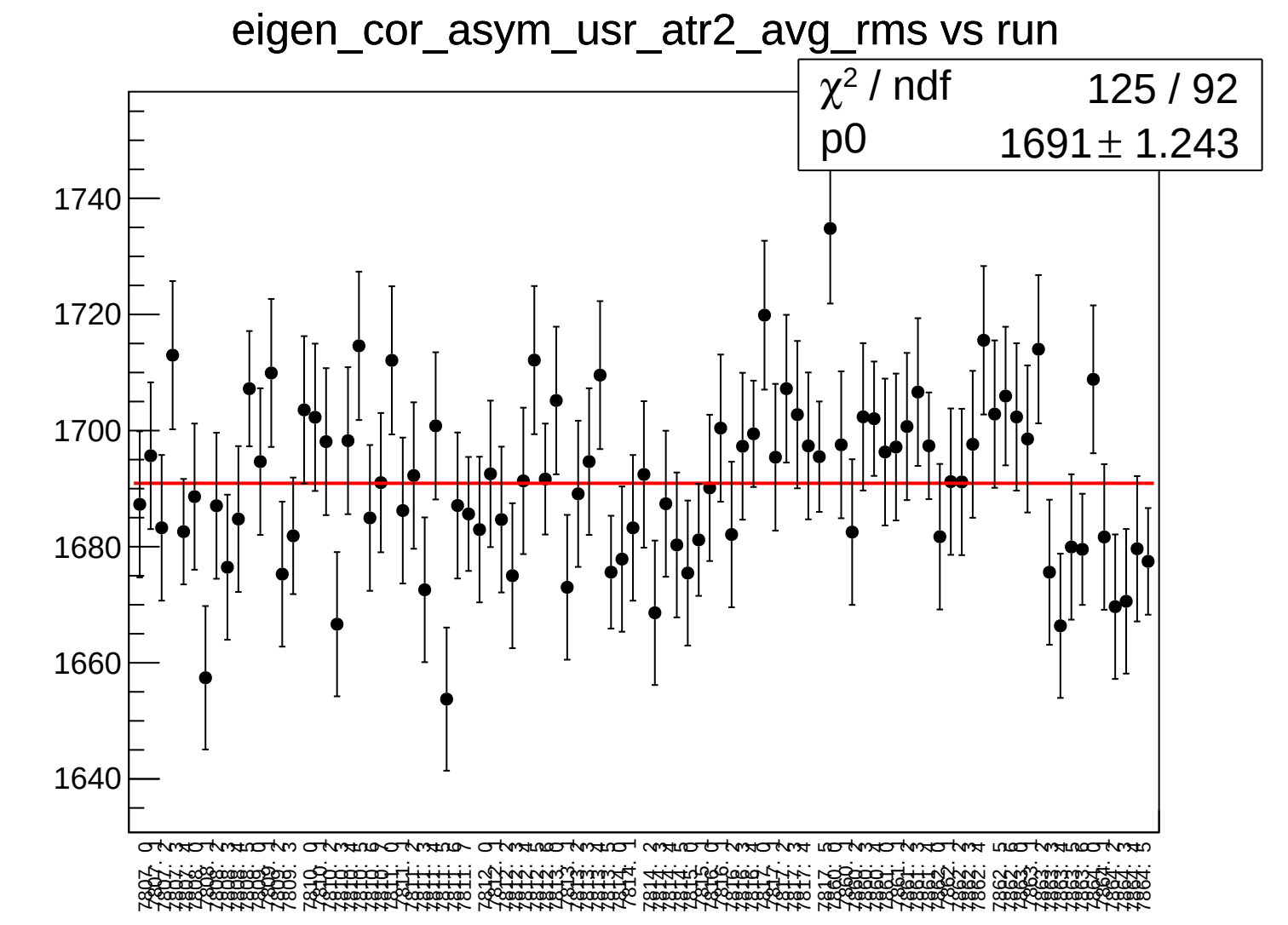

asym_usr_atr2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 84.19 / 92
p0 8100 ± 9447
pull
Entries 93
Mean −40.71
Std Dev 0

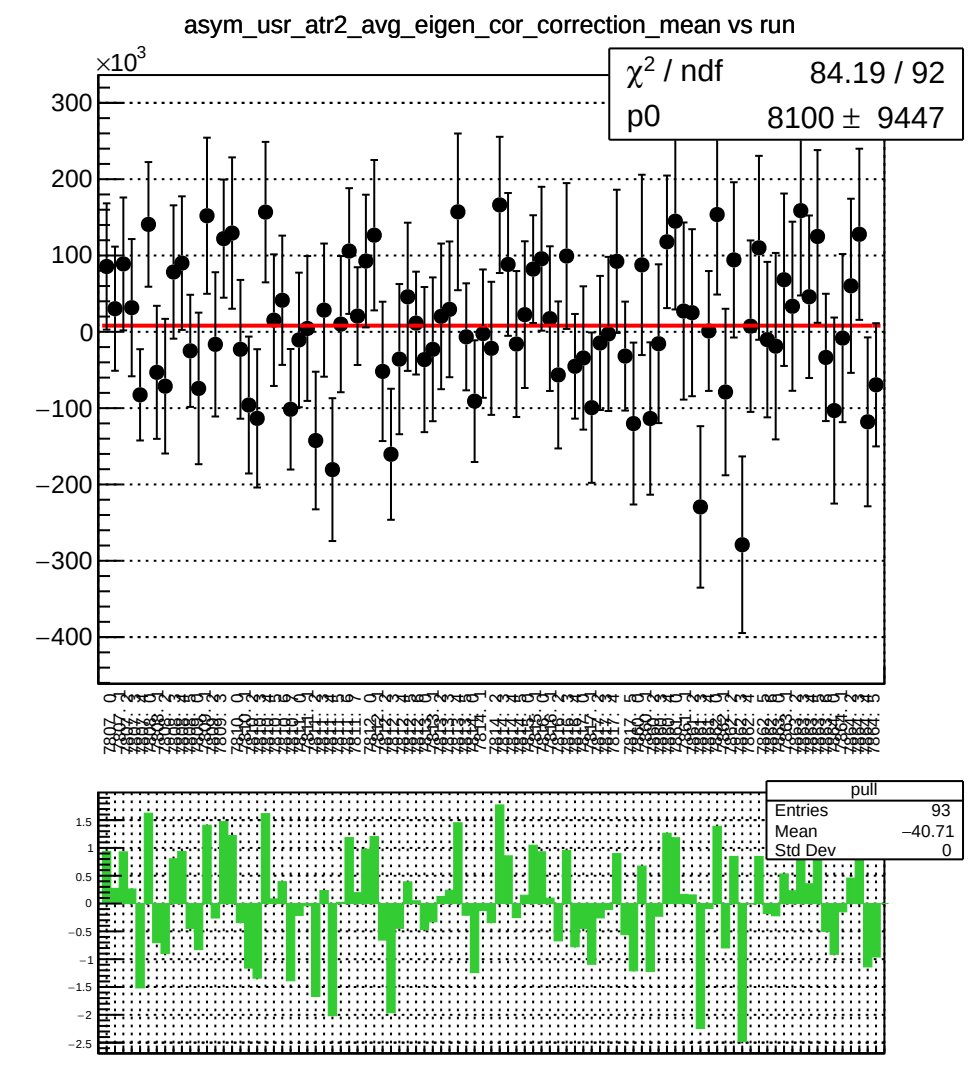

pull1D
Entries 93
Mean 0.01288
Std Dev 0.9514

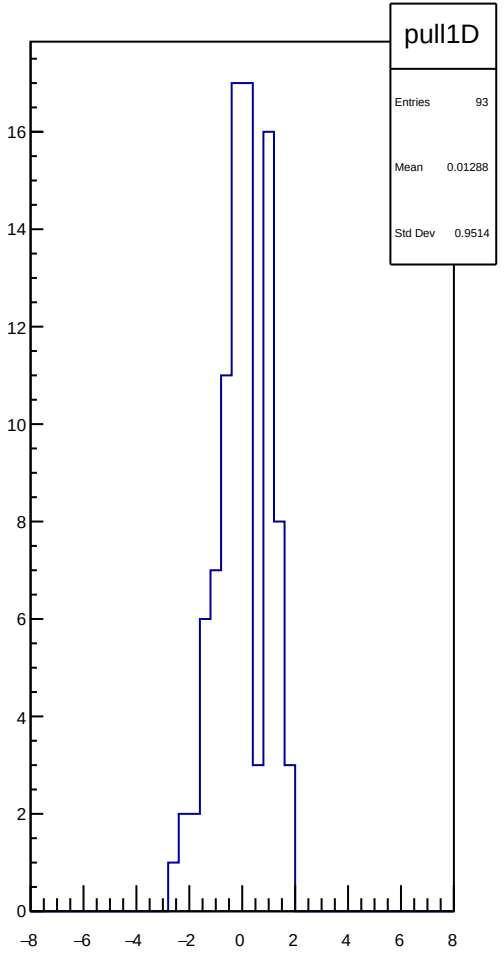

asym_usr_atr2_avg_cor_correction_rms vs run
χ² / ndf 2.09e+04 / 92
p0 9038 ± 6.68
12000
11000
10000
9000
8000

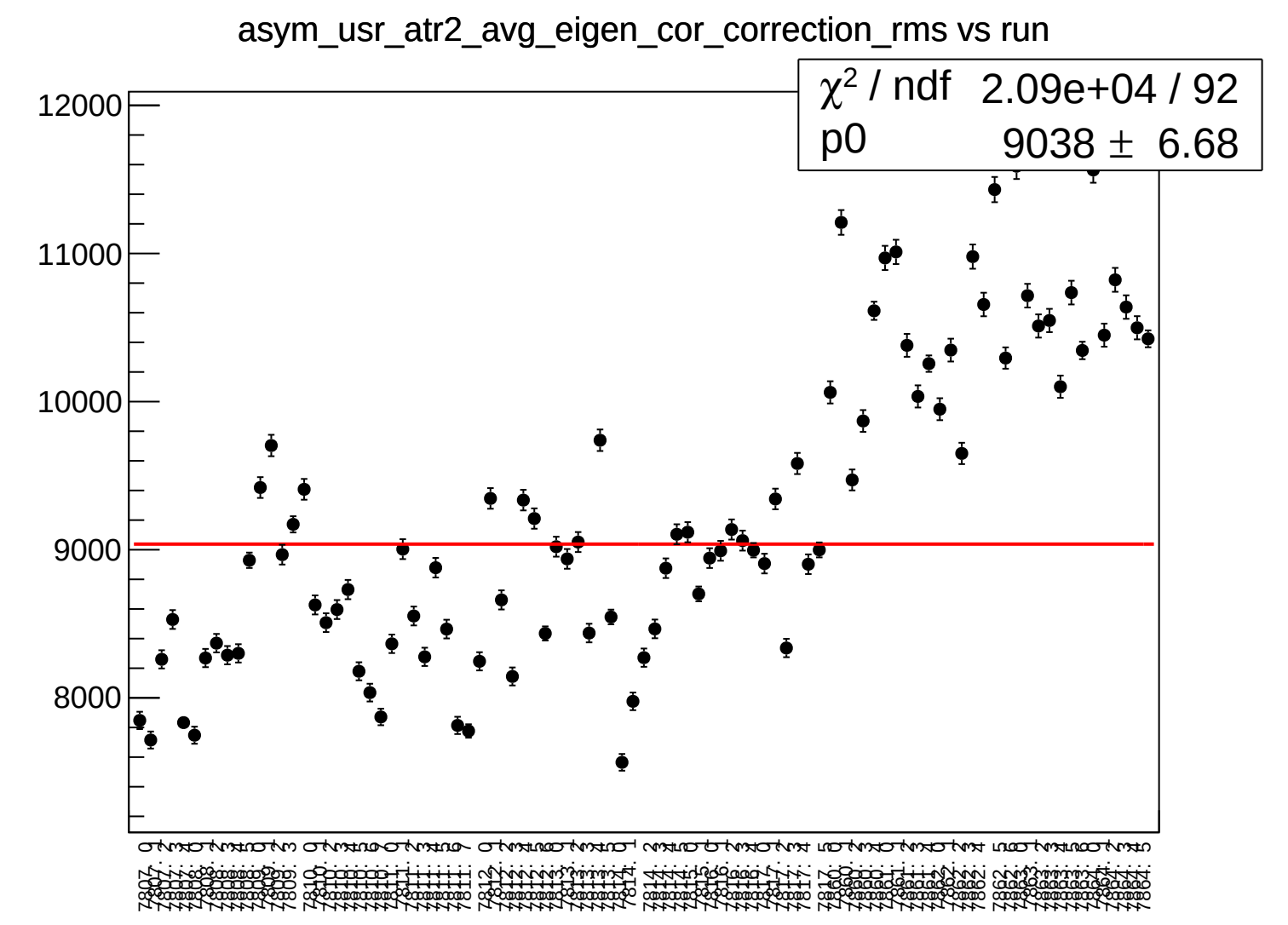

eigen_cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 108.7 / 92
p0 93.27 ± 1757
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean −468.4
Std Dev 0
2
1
0
−1
−2
−3

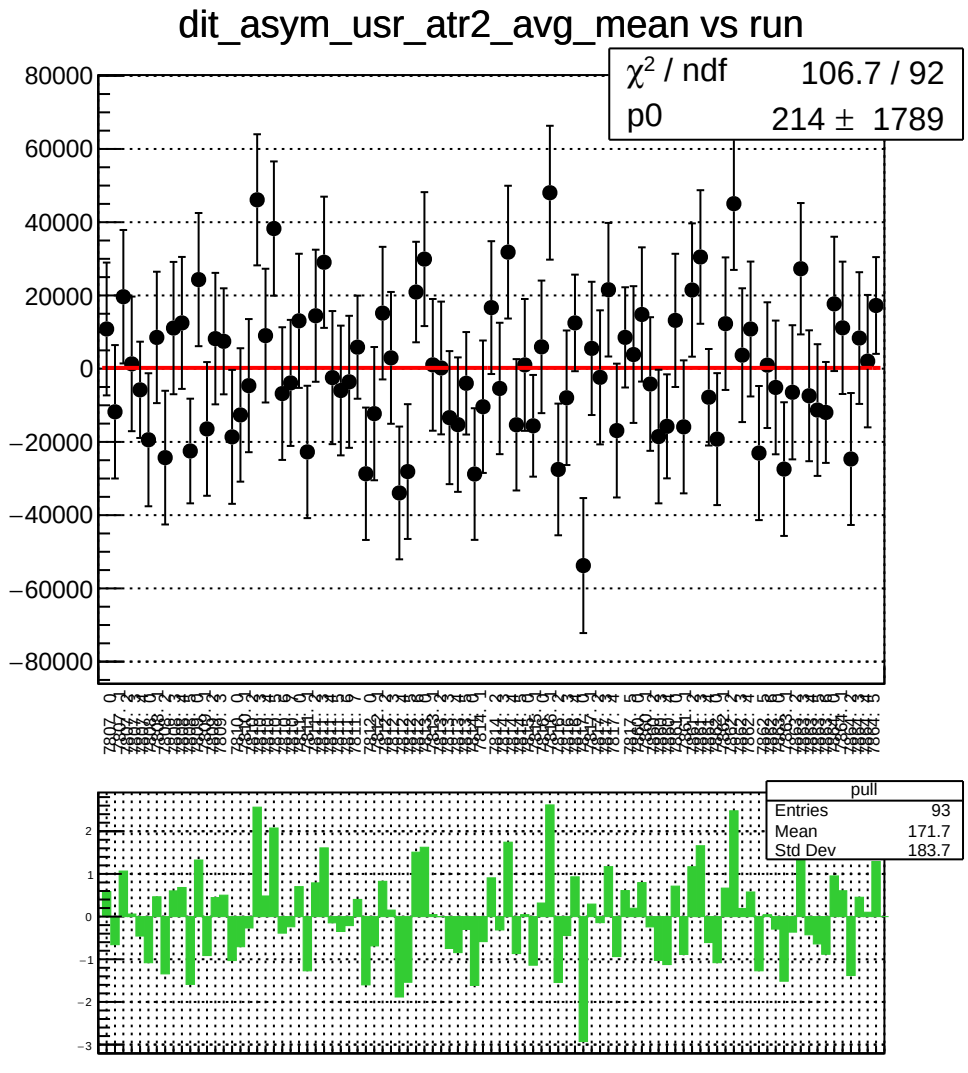

pull1D
Entries 93
Mean 0.0006071
Std Dev 1.081
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

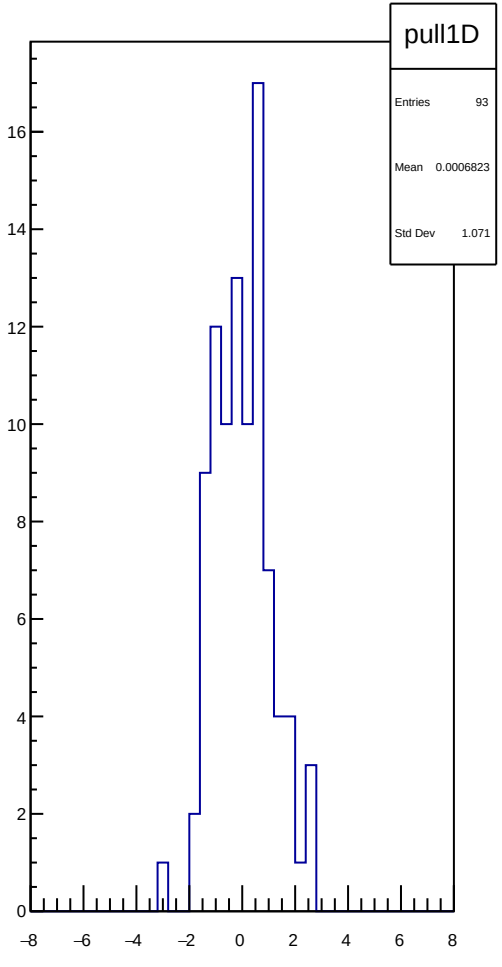

eigen_cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 125 / 92
p0 1691 ± 1.243
1740
1720
1700
1680
1660
1640

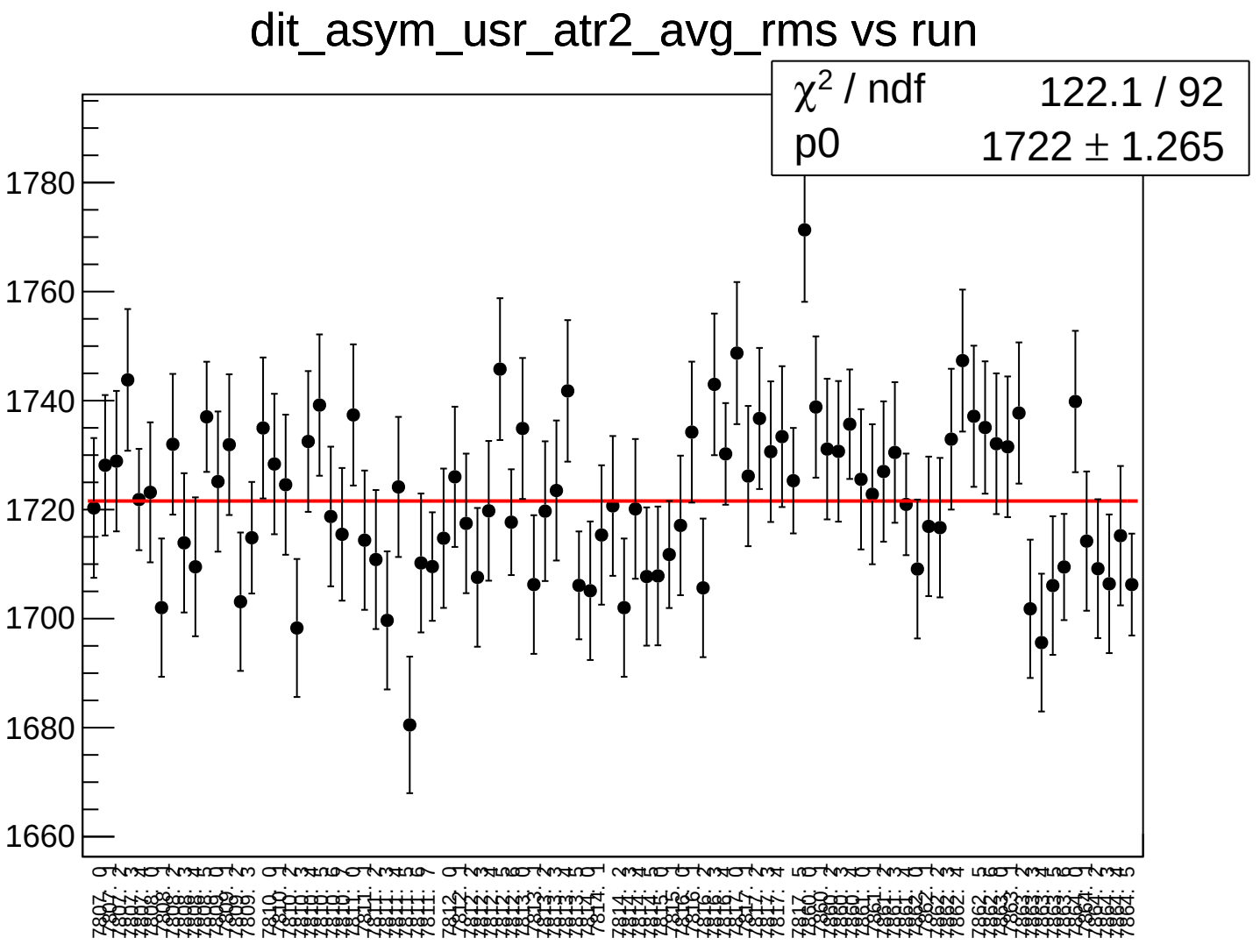

asym_usr_atr2_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 84.19 / 92
p0 8100 ± 9447
pull
Entries 93
Mean −40.71
Std Dev 0

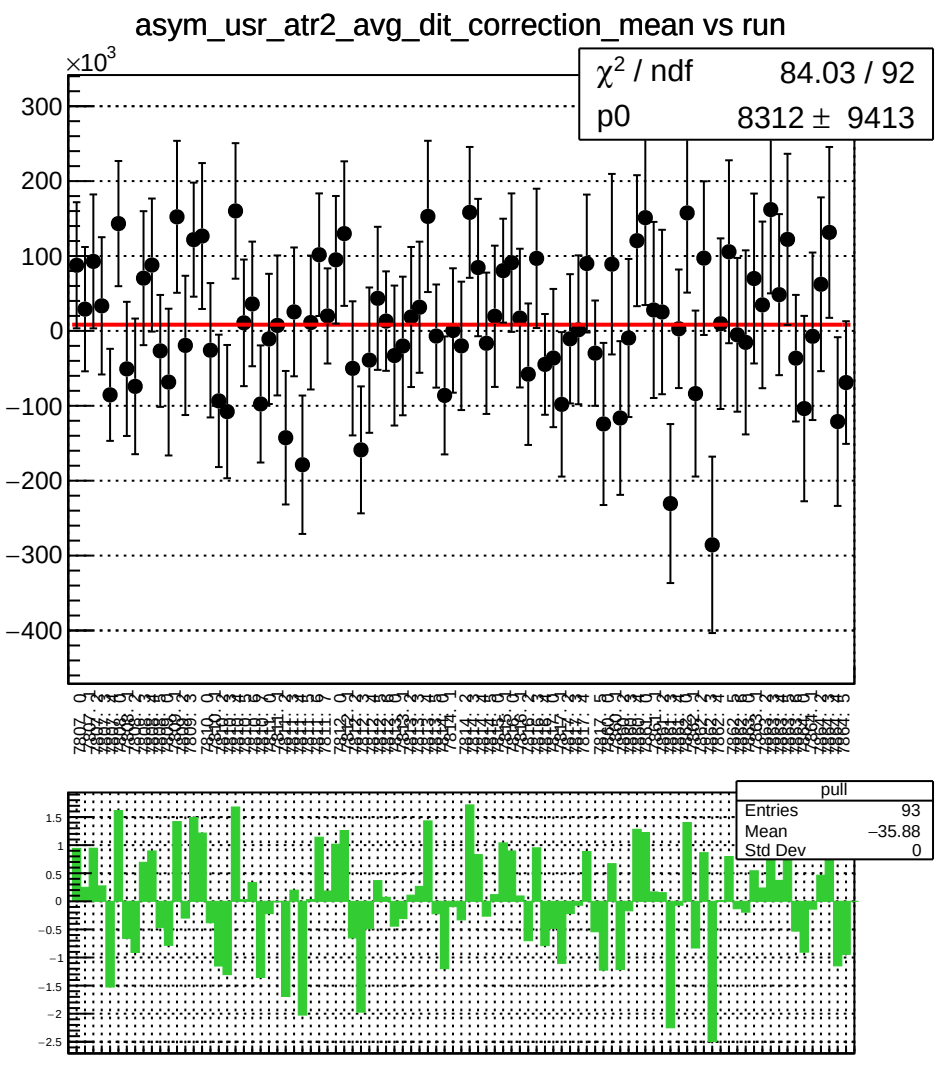

pull1D
Entries 93
Mean 0.01288
Std Dev 0.9514

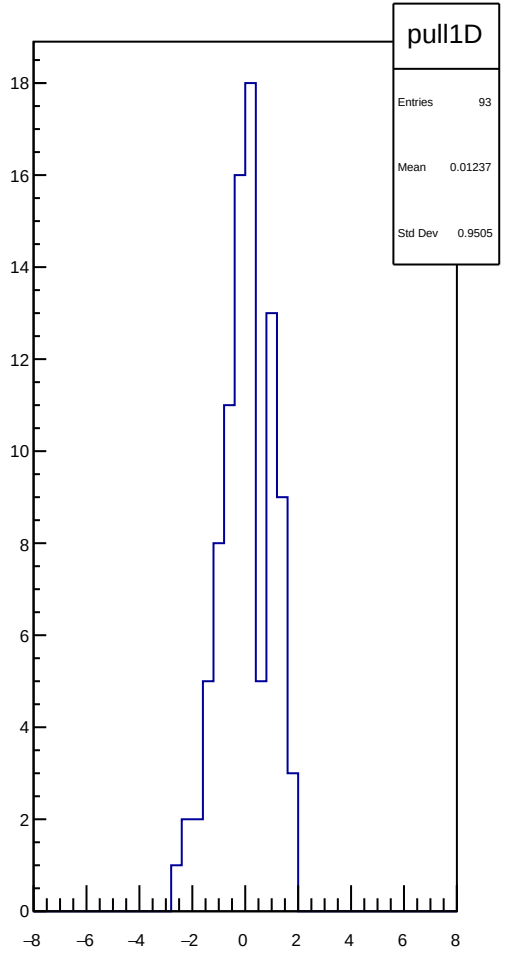

asym_usr_atr2_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.09e+04 / 92
p0 9038 ± 6.68
12000
11000
10000
9000
8000

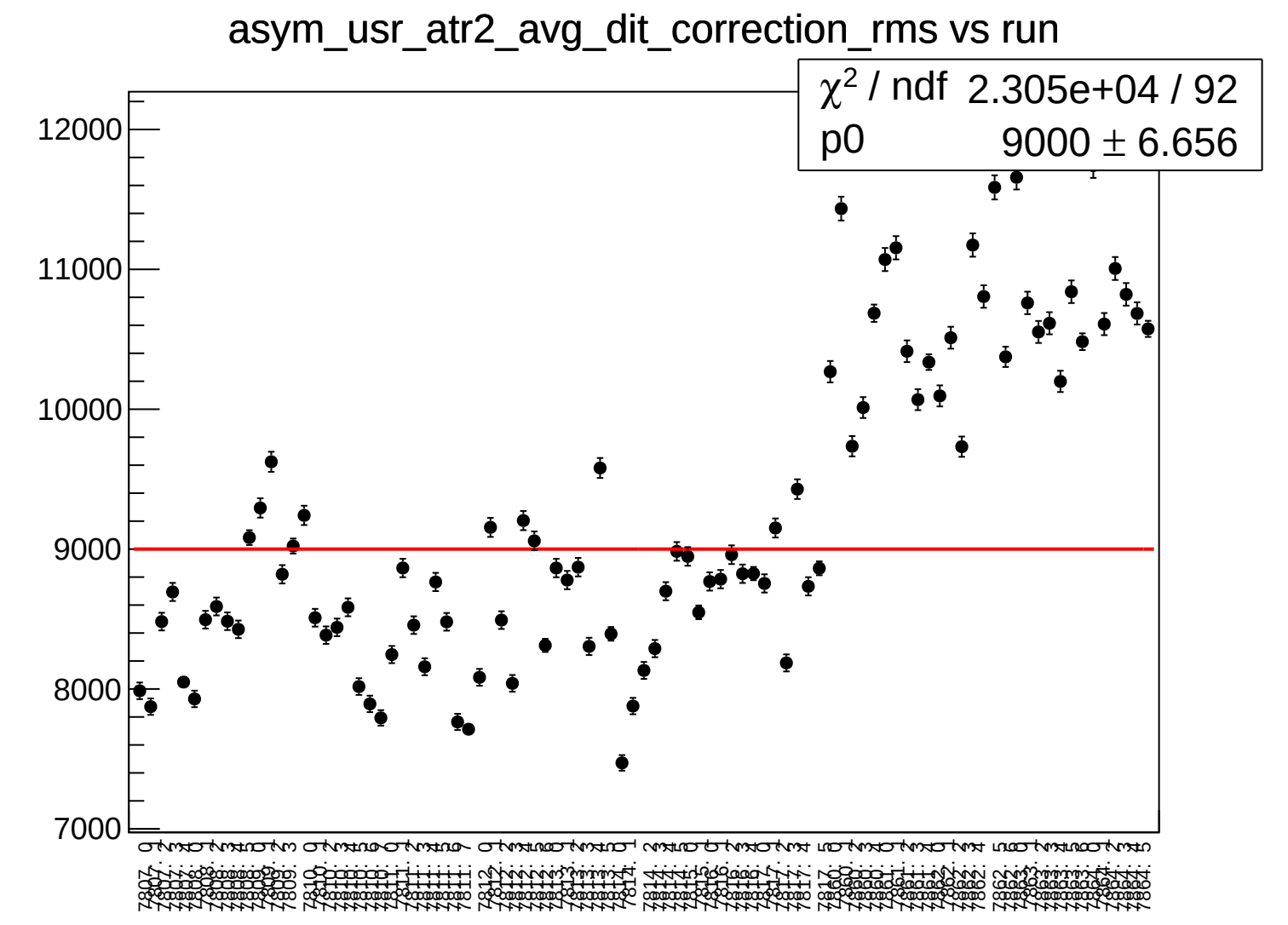

dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 106.7 / 92
p0 214 ± 1789
pull
Entries 93
Mean 171.7
Std Dev 183.7

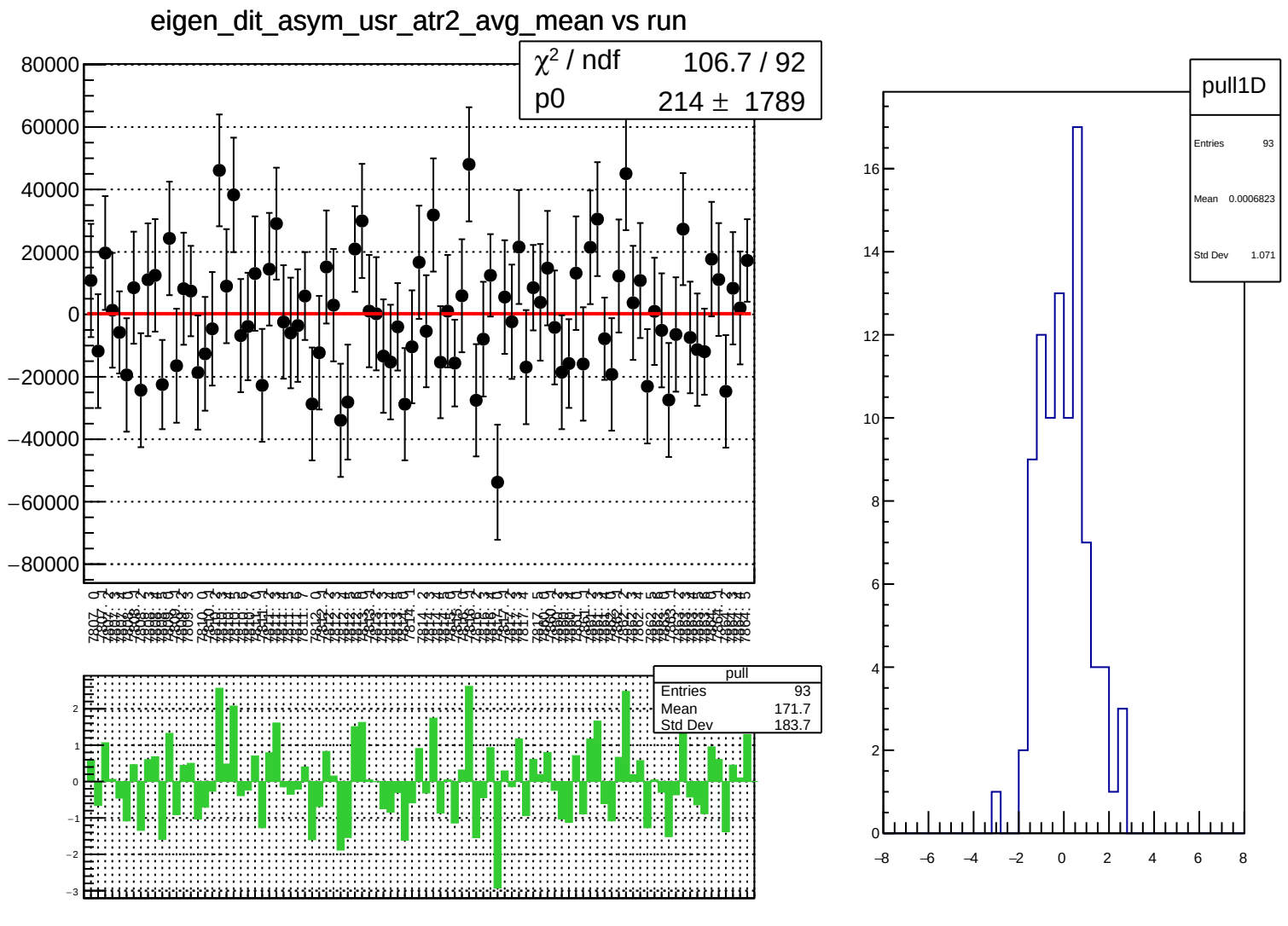

pull1D
Entries 93
Mean 0.0006823
Std Dev 1.071

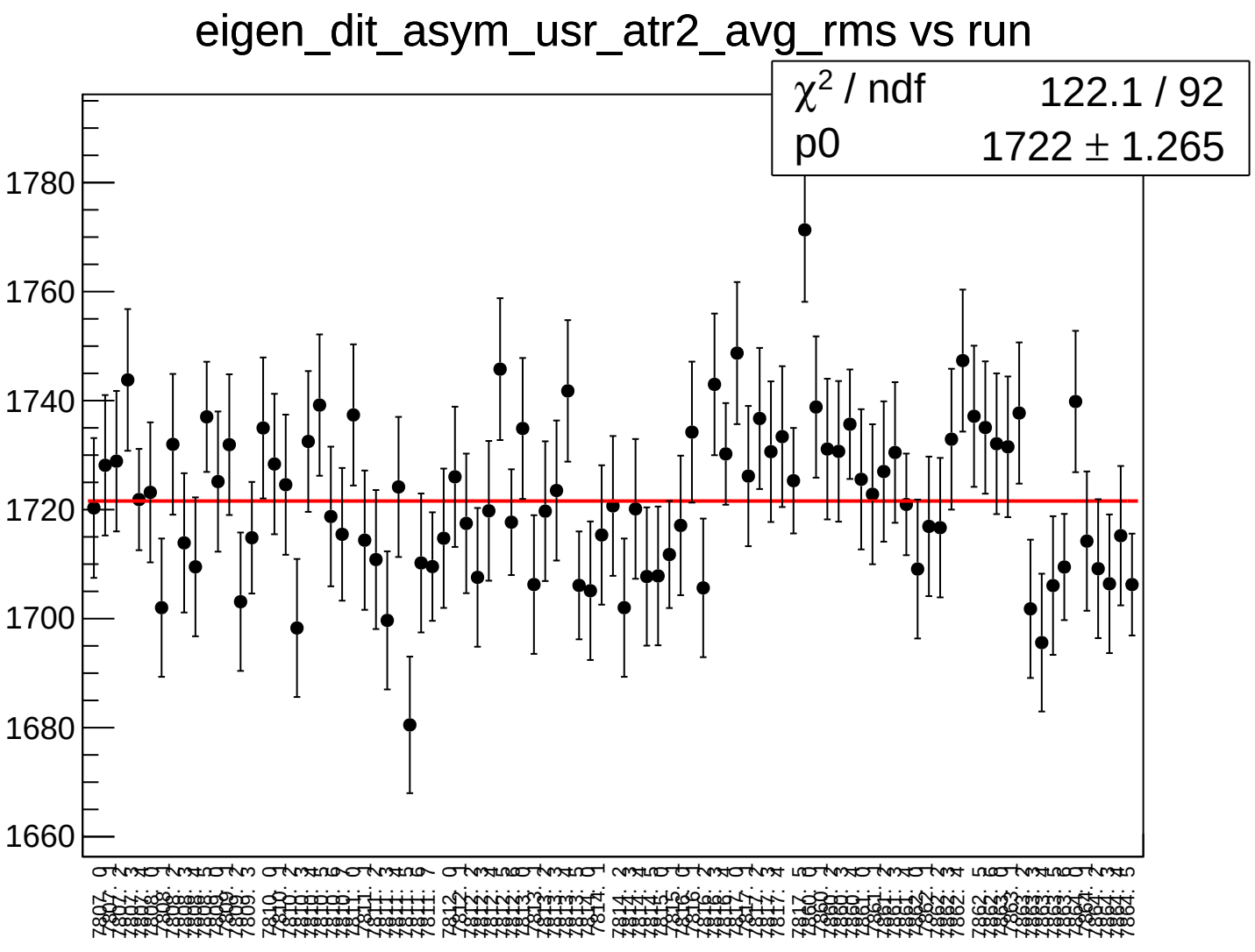

dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 122.1 / 92
p0 1722 ± 1.265
1780
1760
1740
1720
1700
1680
1660

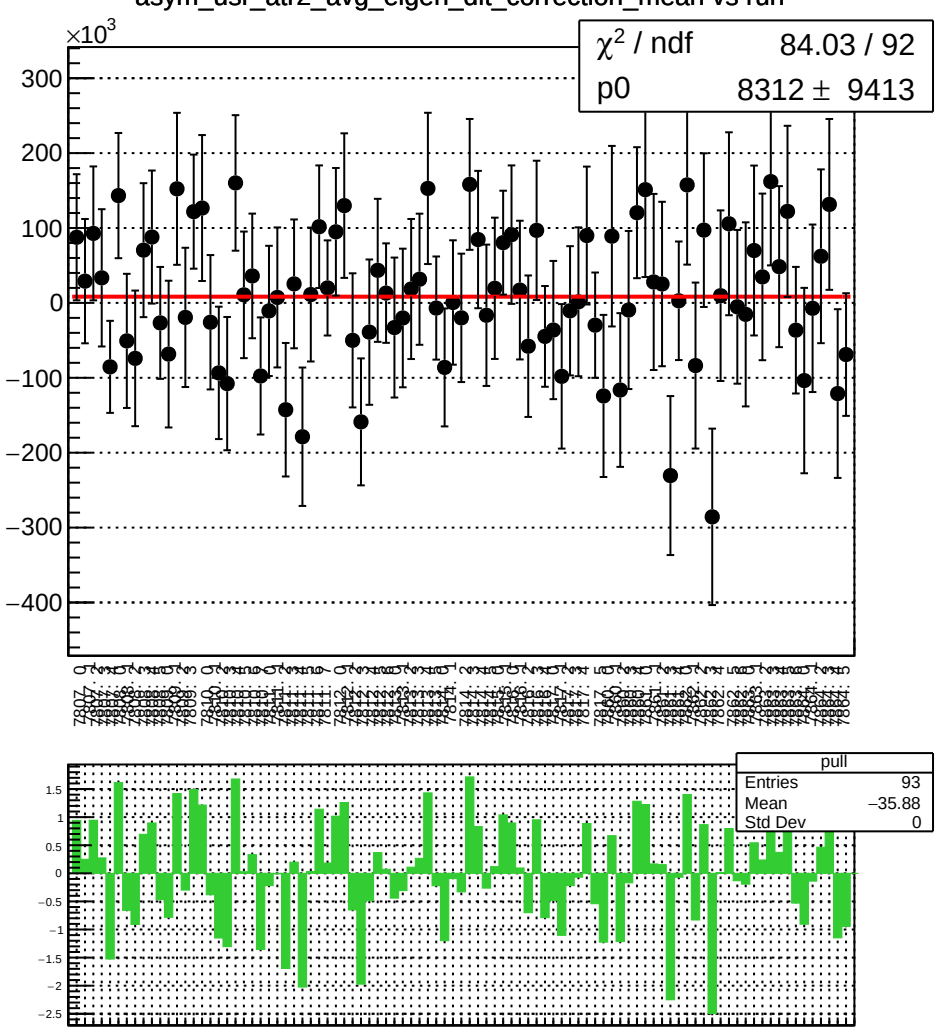

asym_usr_atr2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 84.03 / 92
p0 8312 ± 9413
pull
Entries 93
Mean −35.88
Std Dev 0

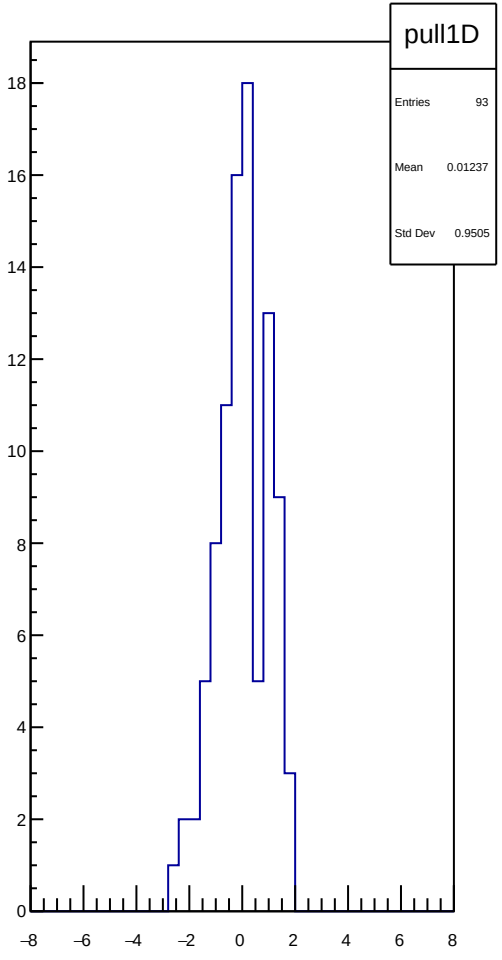

pull1D
Entries 93
Mean 0.01237
Std Dev 0.9505

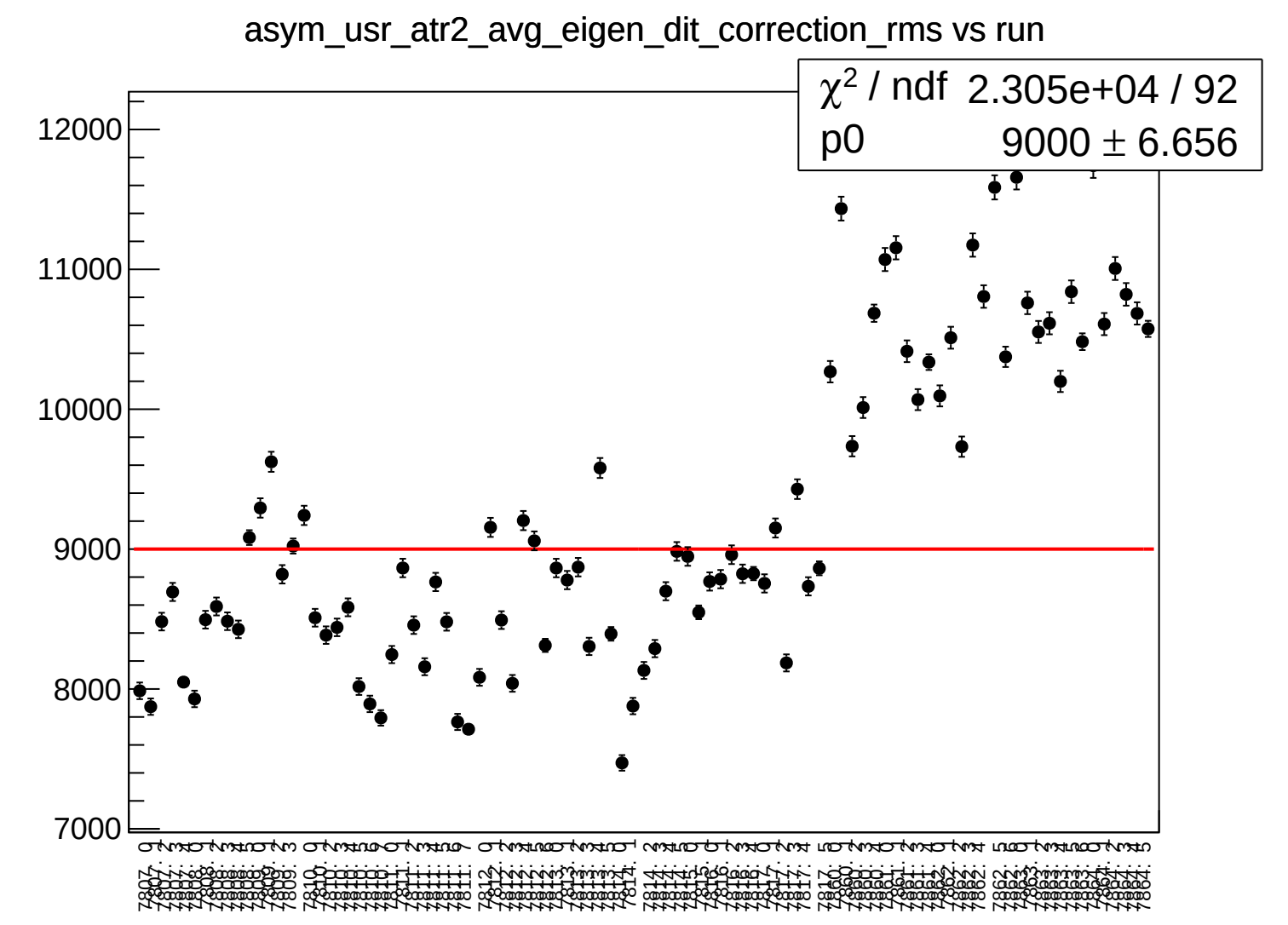

asym_usr_atr2_avg_dit_correction_rms vs run
χ² / ndf 2.305e+04 / 92
p0 9000 ± 6.656
12000
11000
10000
9000
8000
7000

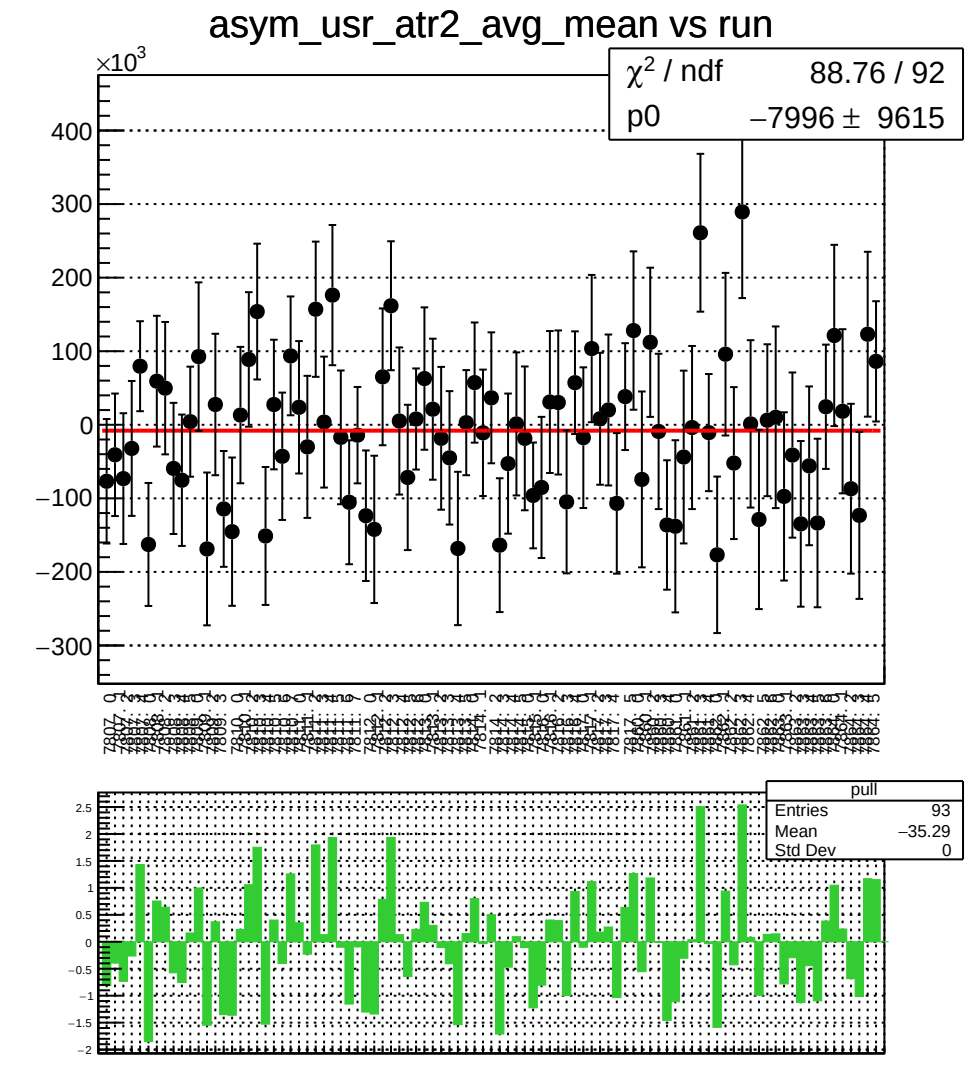

eigen_dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 106.7 / 92
p0 214 ± 1789
pull
Entries 93
Mean 171.7
Std Dev 183.7
pull1D
Entries 93
Mean 0.0006823
Std Dev 1.071

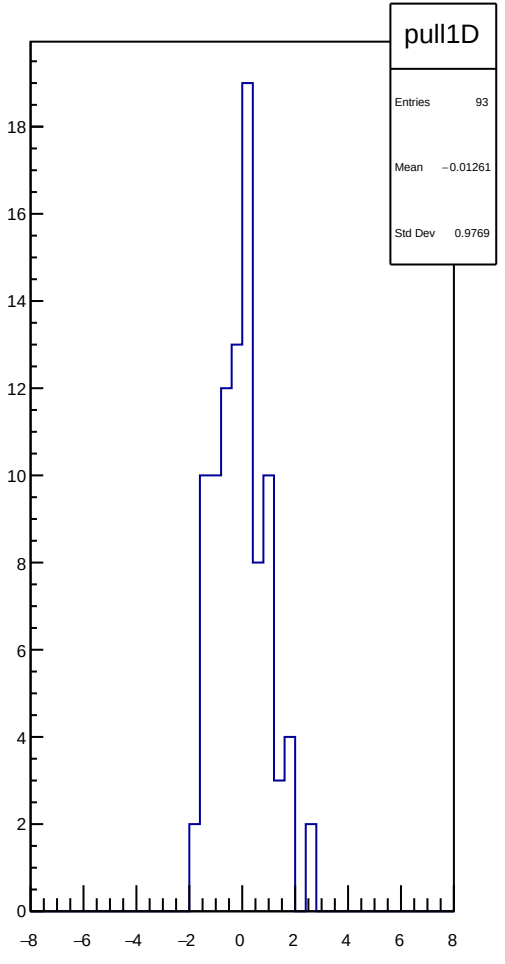

eigen_dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 122.1 / 92
p0 1722 ± 1.265
1780
1760
1740
1720
1700
1680
1660

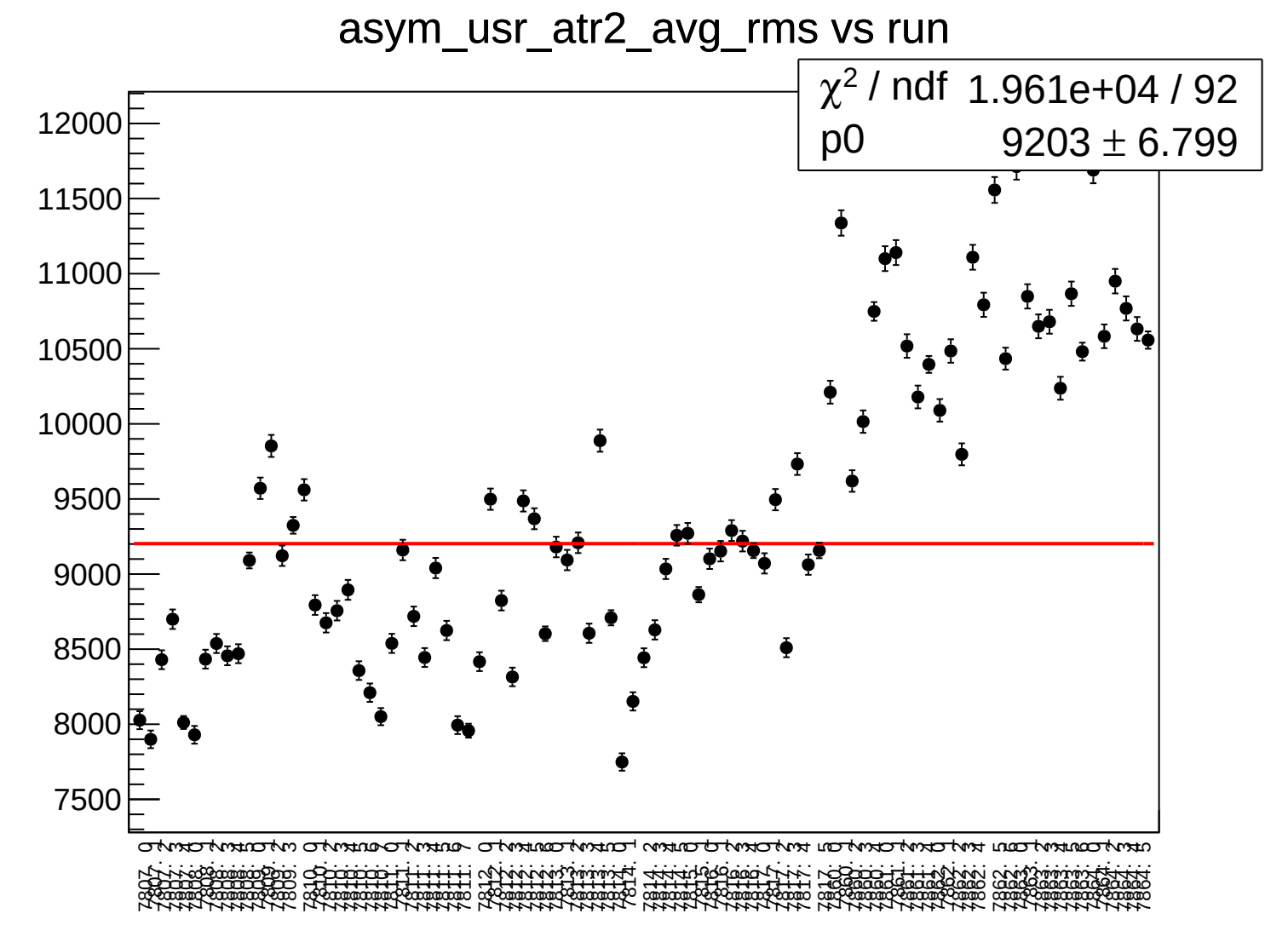

asym_usr_atr2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 84.03 / 92
p0 8312 ± 9413
pull
Entries 93
Mean −35.88
Std Dev 0

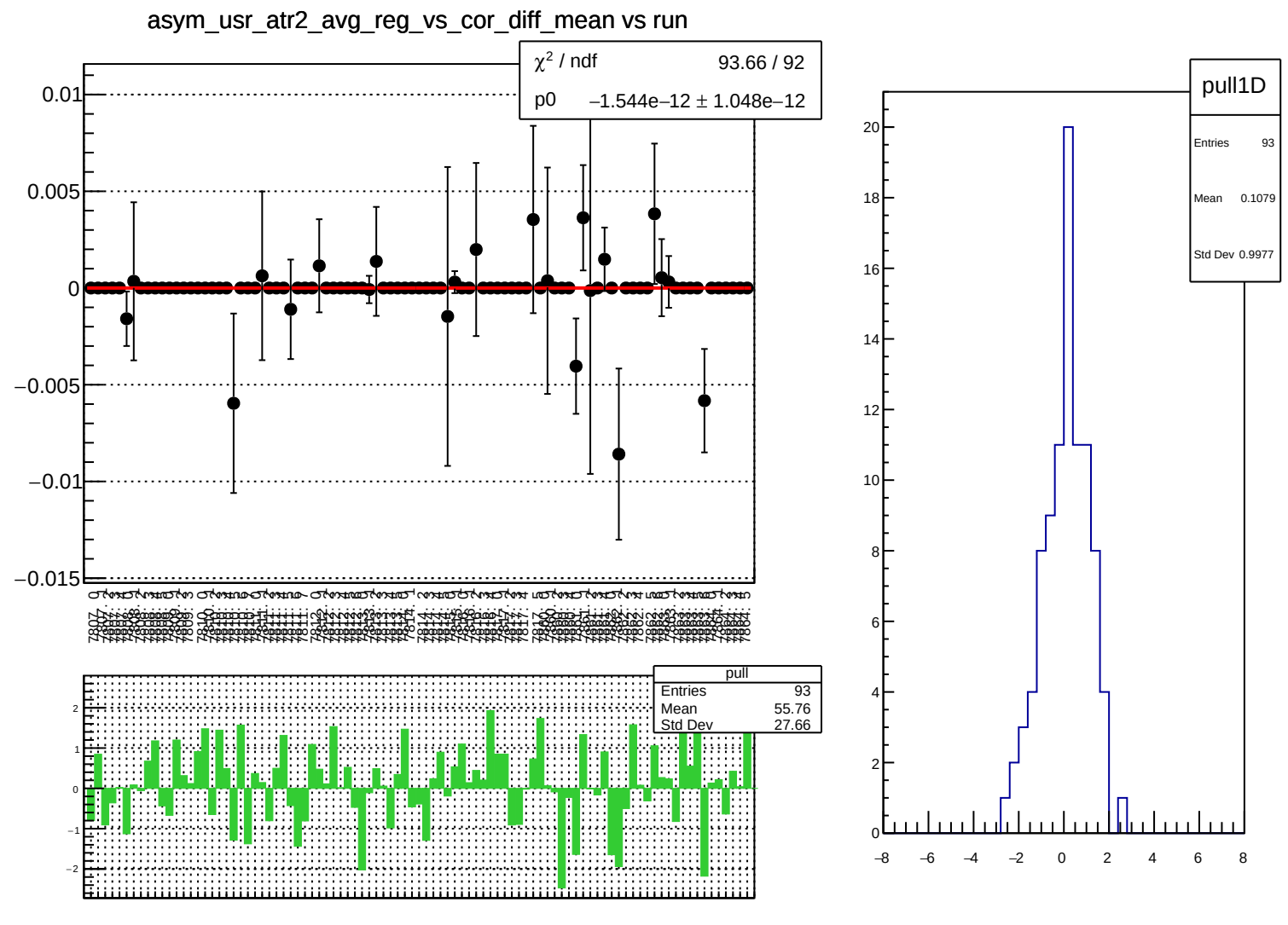

pull1D
Entries 93
Mean 0.01237
Std Dev 0.9505

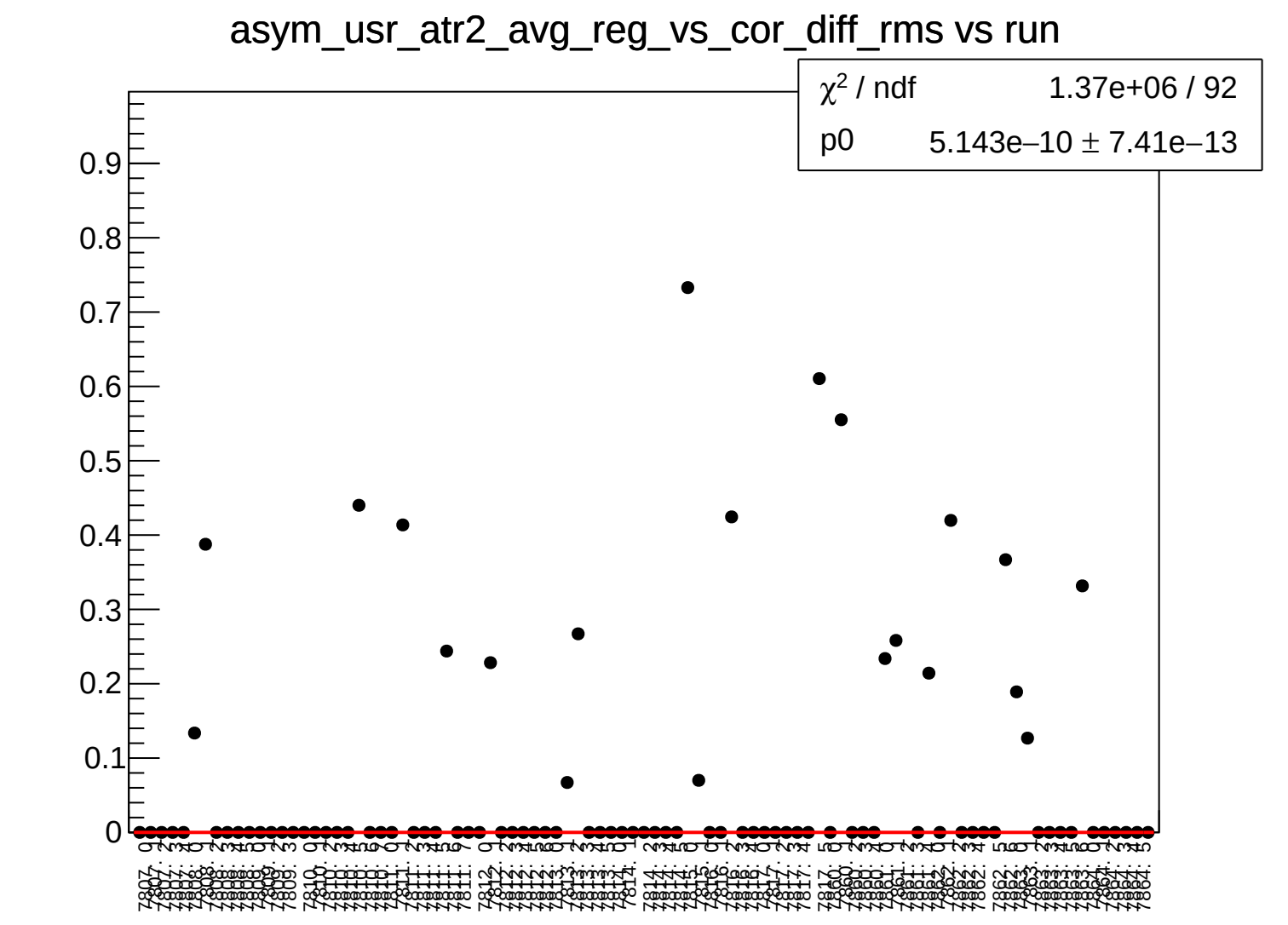

asym_usr_atr2_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.305e+04 / 92
p0 9000 ± 6.656
12000
11000
10000
9000
8000
7000

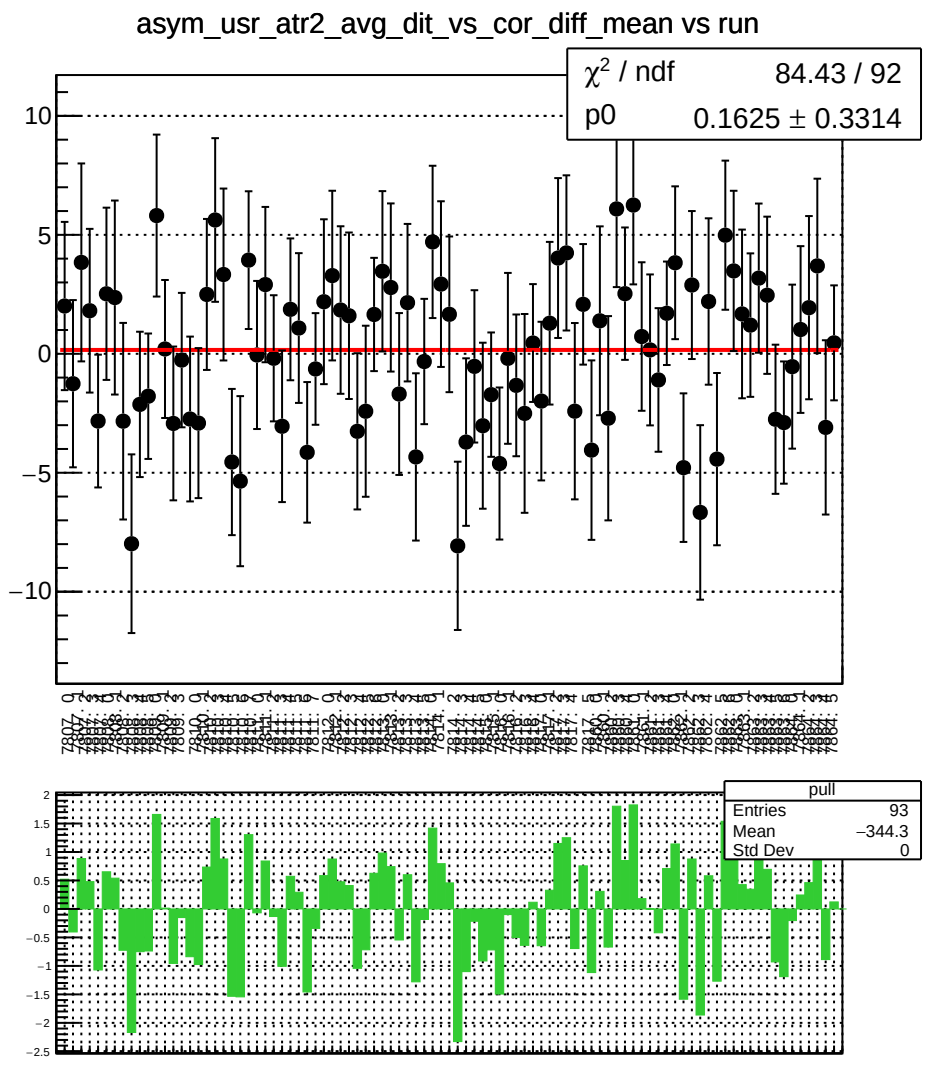

asym_usr_atr2_avg_mean vs run
×10^3
χ² / ndf 88.76 / 92
p0 −7996 ± 9615
pull
Entries 93
Mean −35.29
Std Dev 0

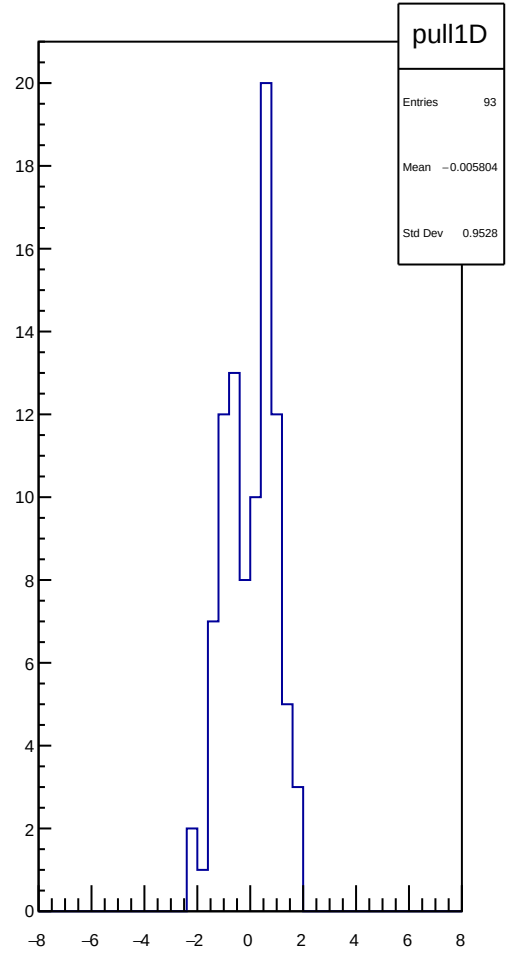

pull1D
Entries 93
Mean −0.01261
Std Dev 0.9769

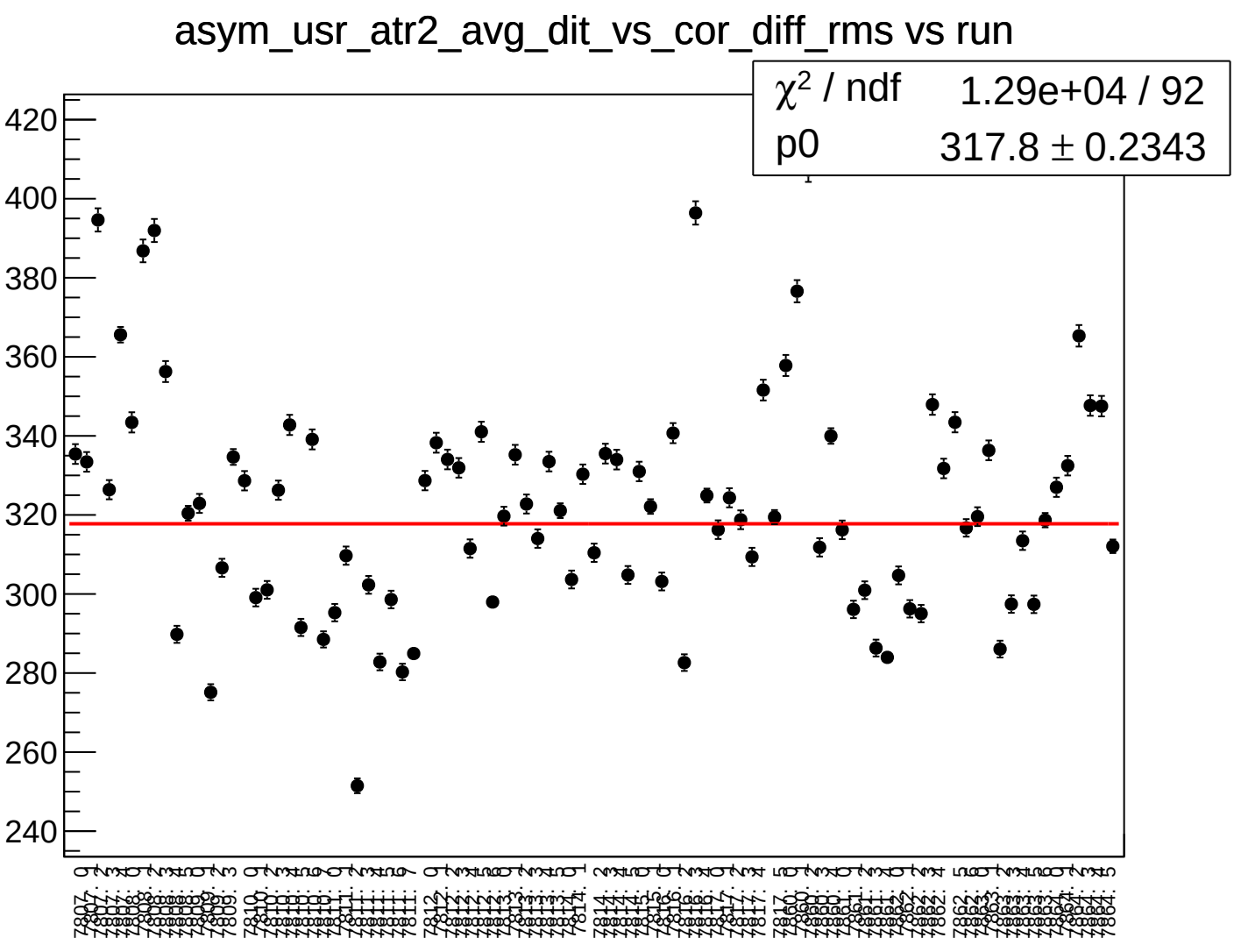

asym_usr_atr2_avg_rms vs run
χ^2 / ndf 1.961e+04 / 92
p0 9203 ± 6.799
12000
11500
11000
10500
10000
9500
9000
8500
8000
7500

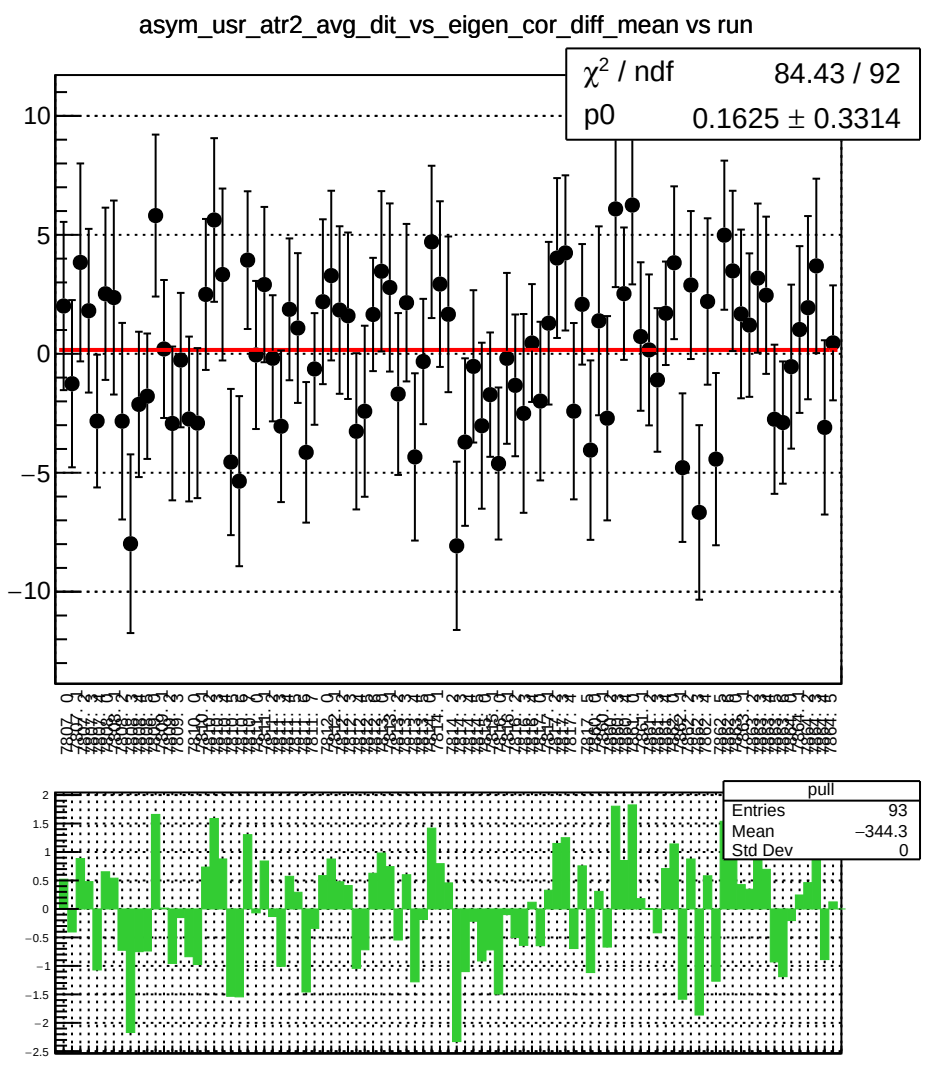

asym_usr_atr2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 93.66 / 92
p0 −1.544e−12 ± 1.048e−12
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 93
Mean 55.76
Std Dev 27.66
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.1079
Std Dev 0.9977
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

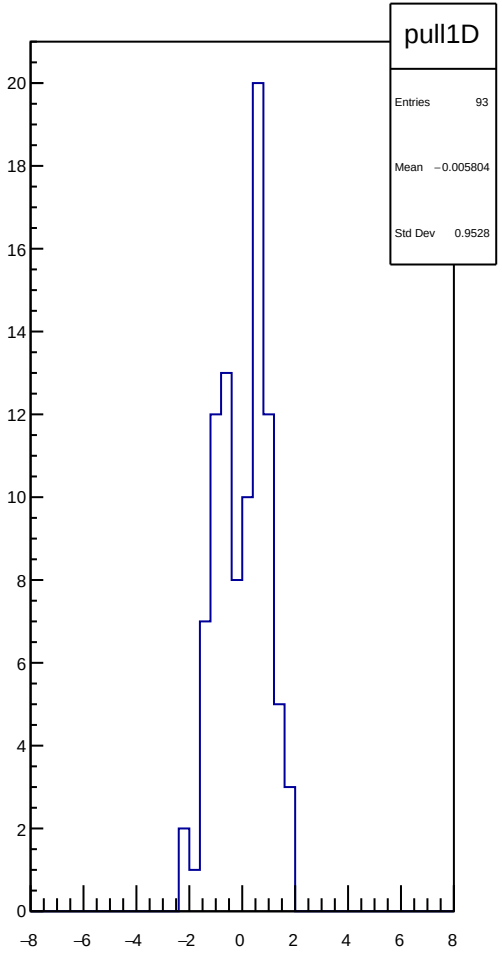

asym_usr_atr2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.37e+06 / 92
p0 5.143e−10 ± 7.41e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

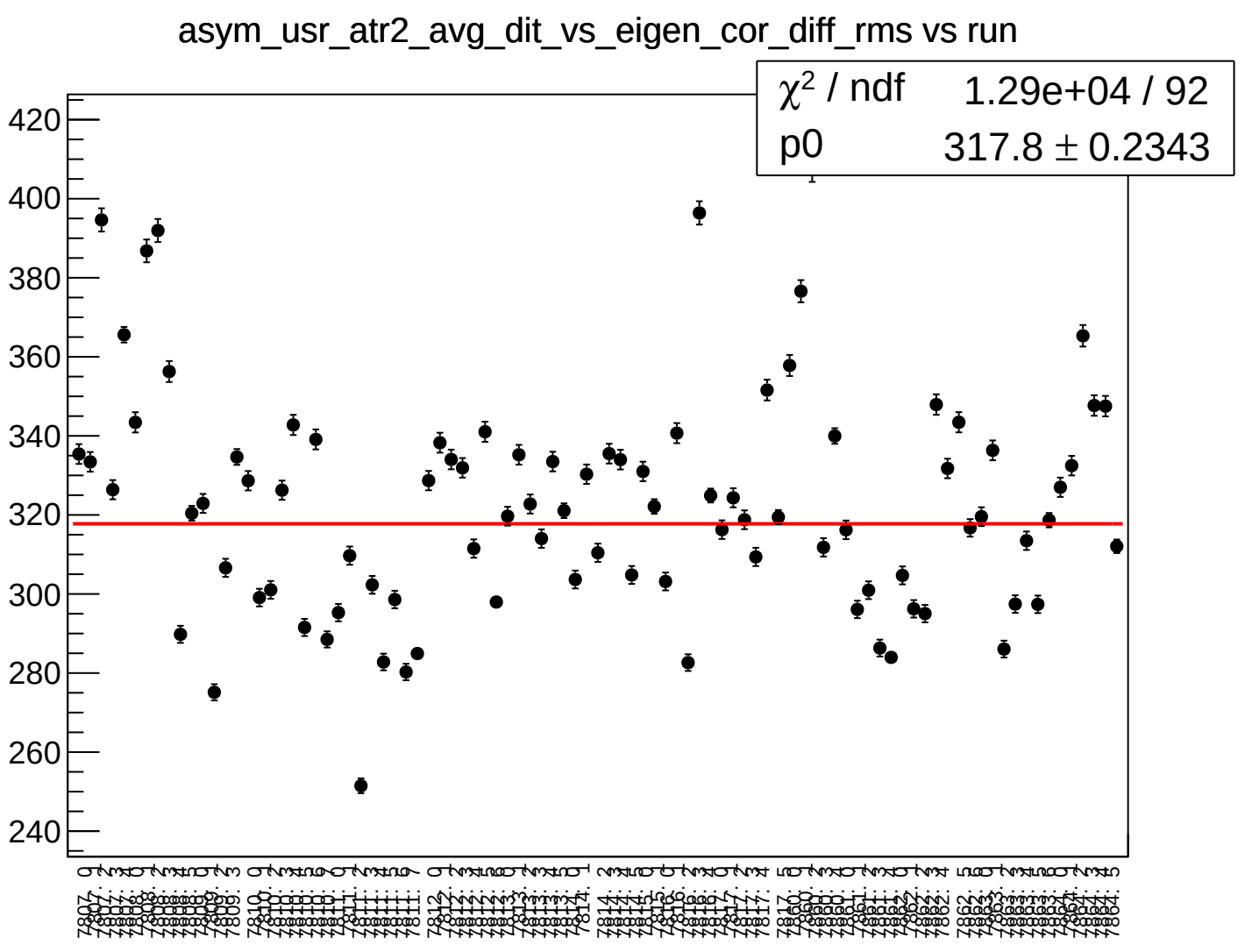

asym_usr_atr2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 84.43 / 92
p0 0.1625 ± 0.3314
pull
Entries 93
Mean −344.3
Std Dev 0

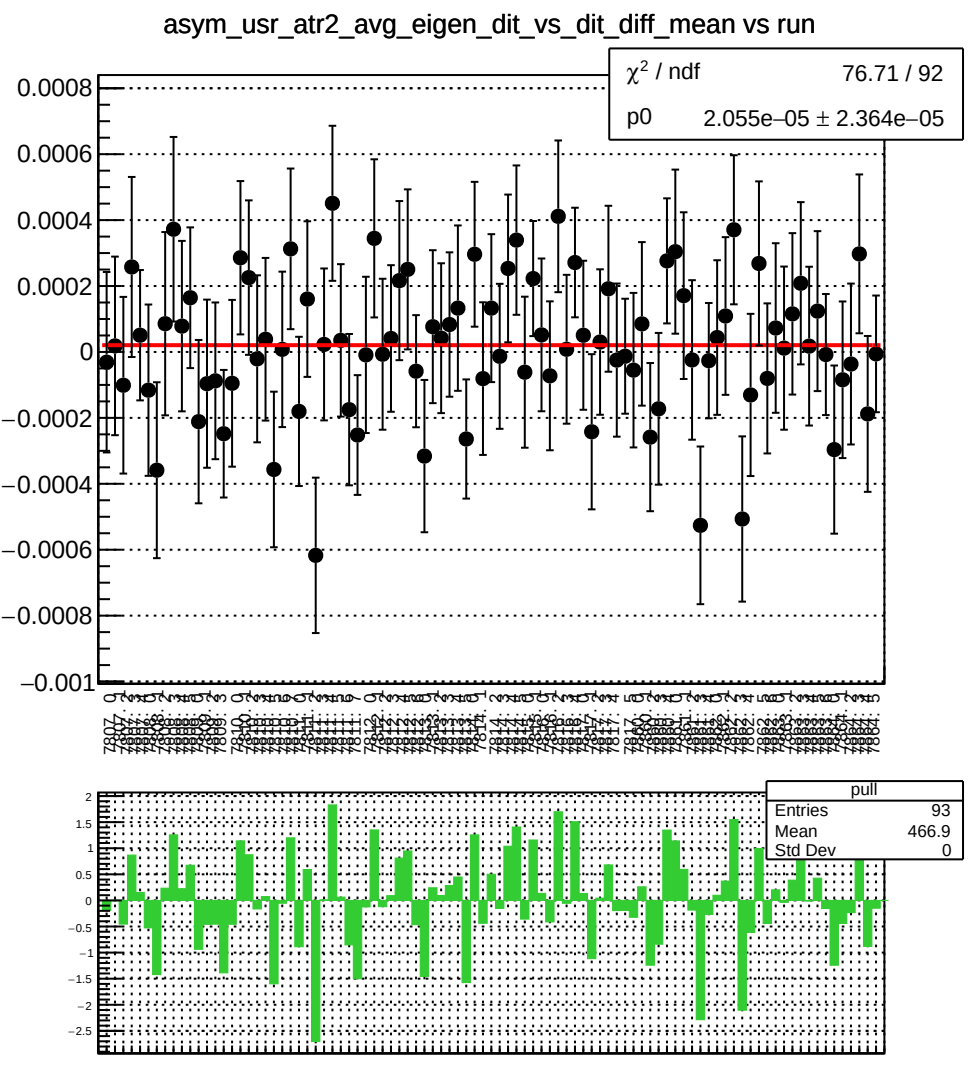

pull1D
Entries 93
Mean −0.005804
Std Dev 0.9528

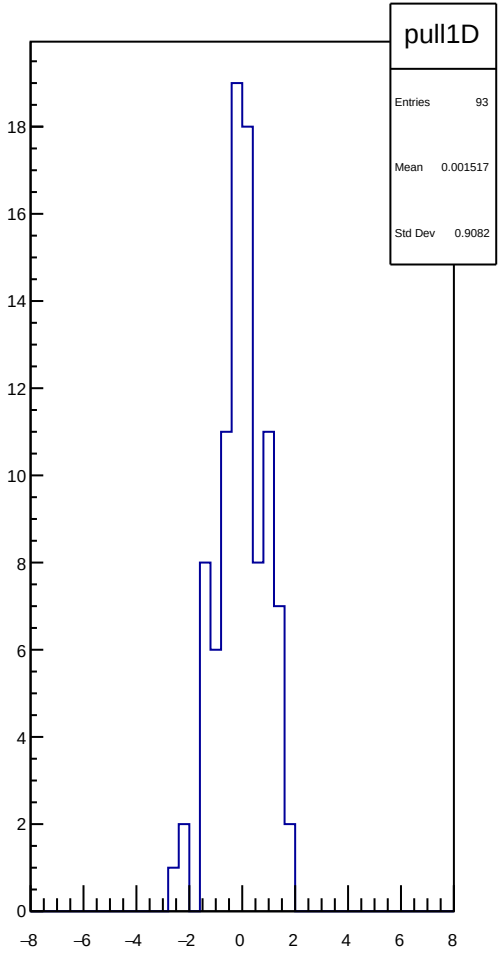

asym_usr_atr2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.29e+04 / 92
p0 317.8 ± 0.2343
420
400
380
360
340
320
300
280
260
240

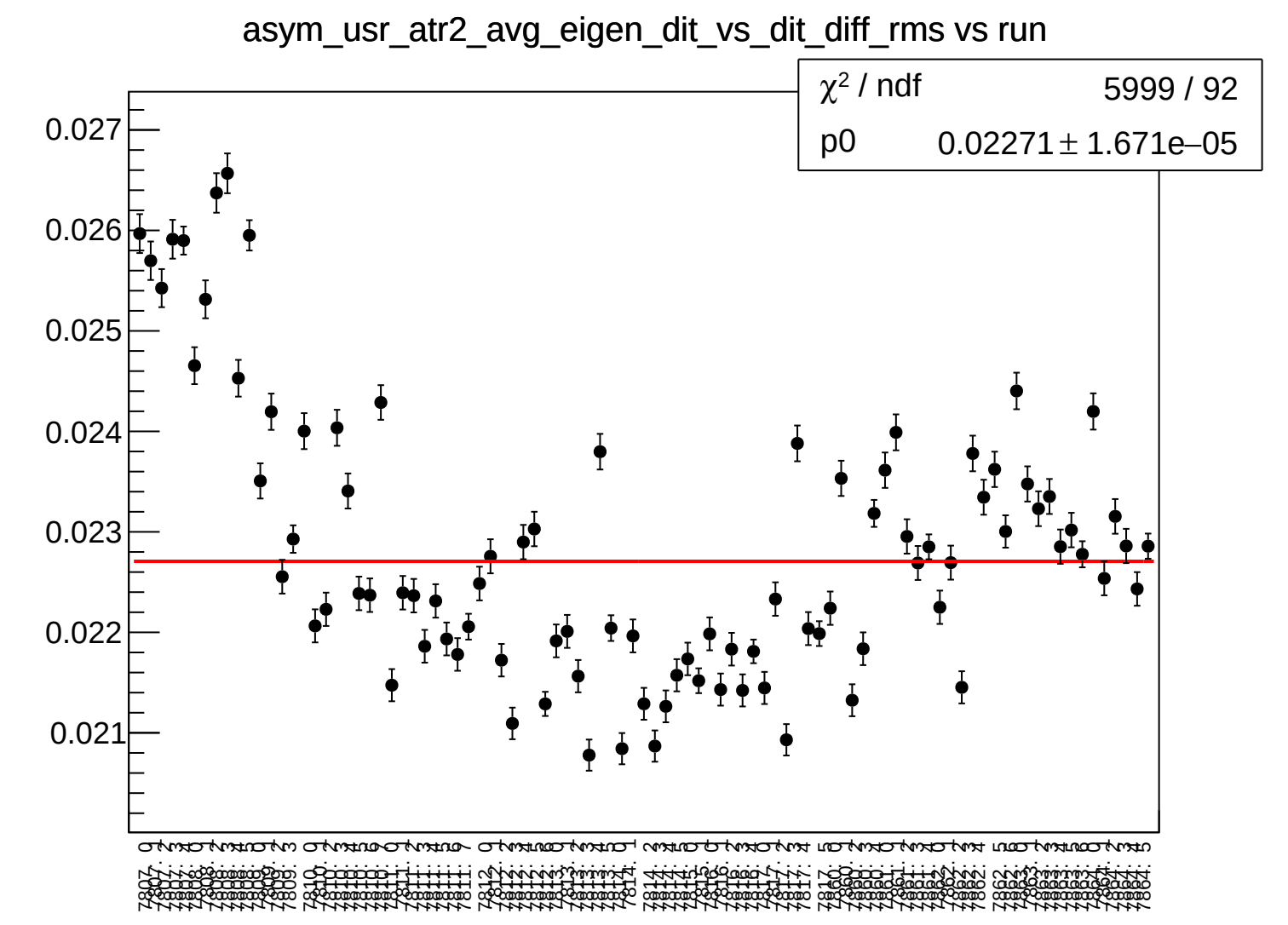

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.43 / 92
p0 0.1625 ± 0.3314
pull
Entries 93
Mean −344.3
Std Dev 0

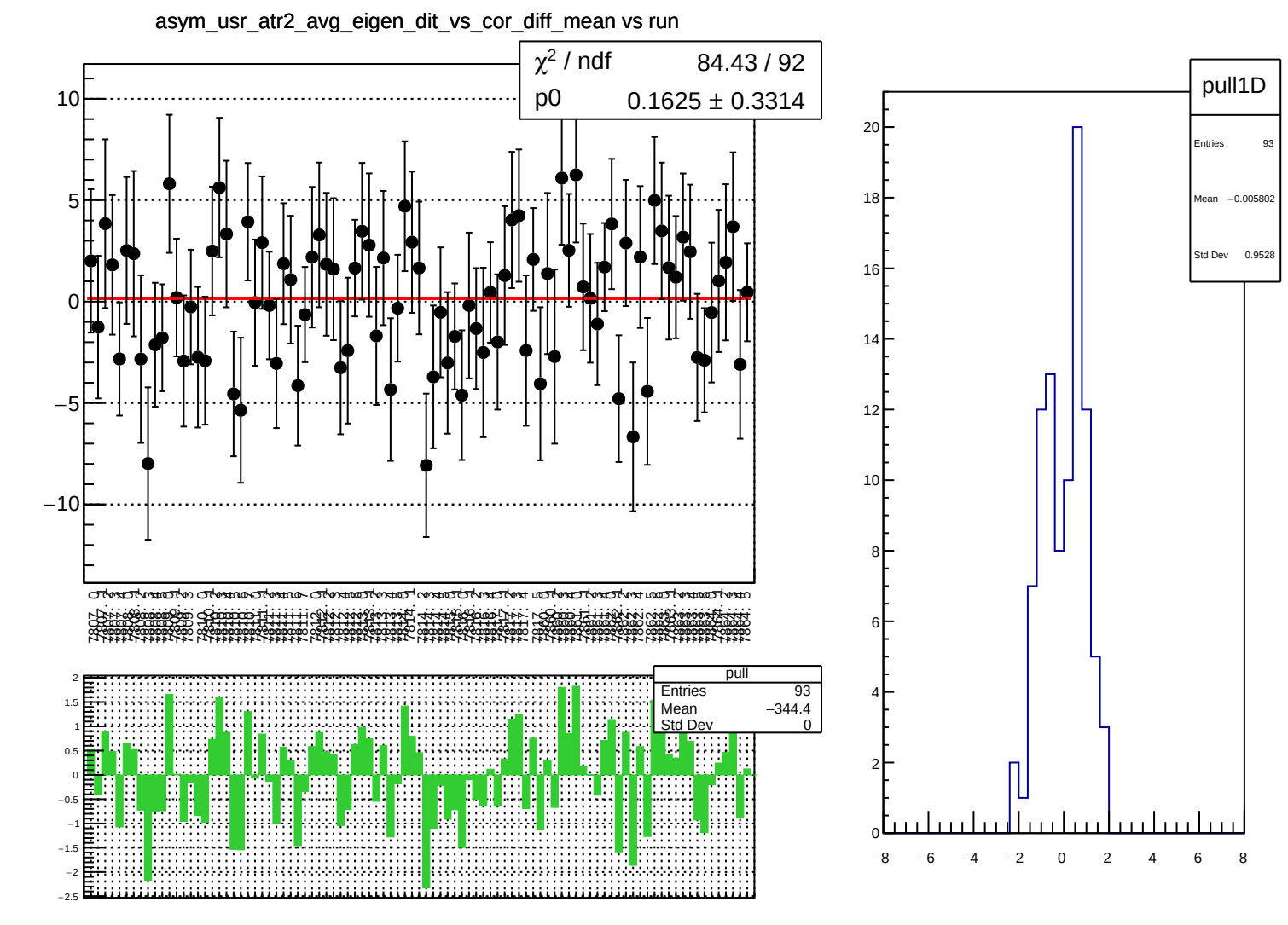

pull1D
Entries 93
Mean −0.005804
Std Dev 0.9528

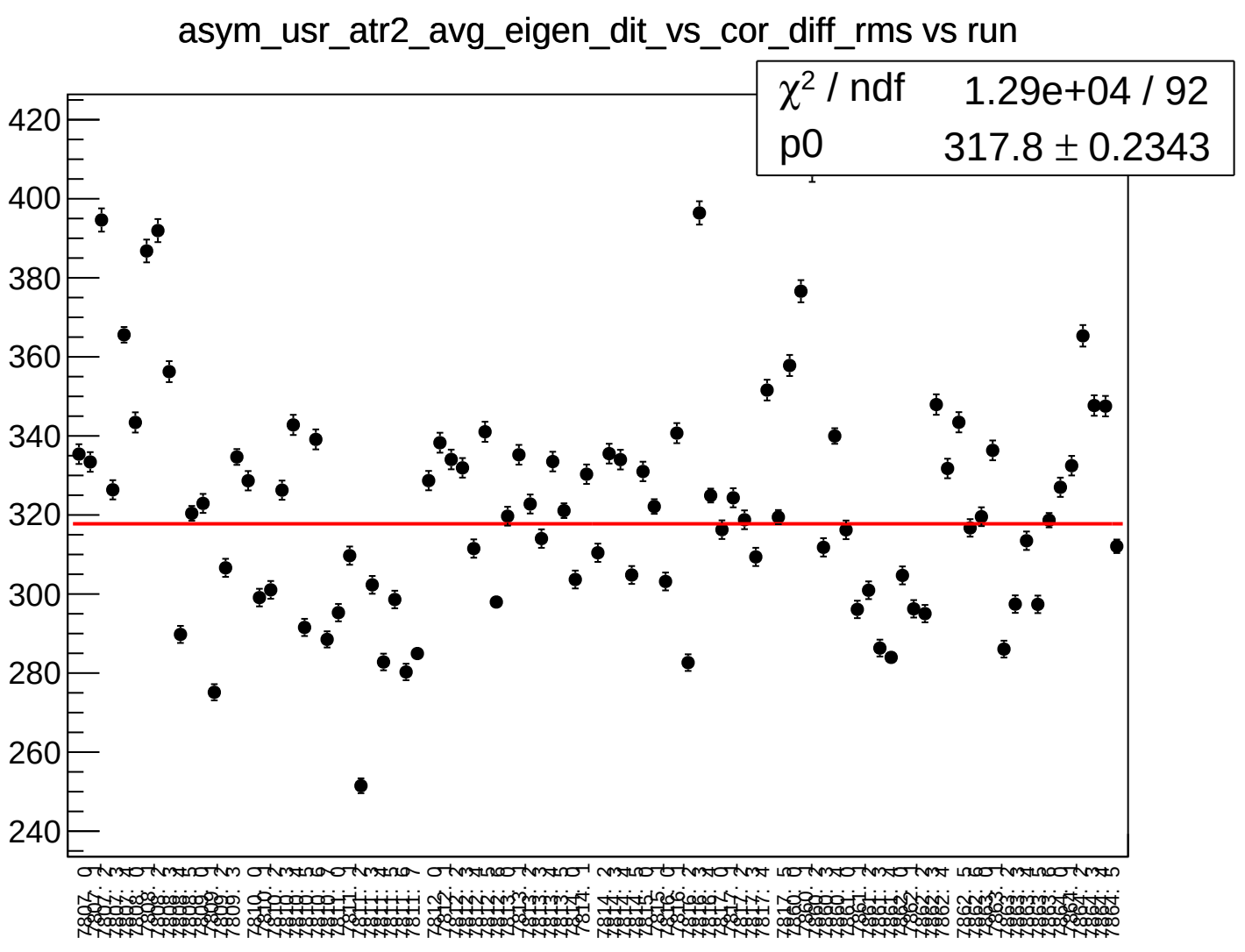

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.29e+04 / 92
p0 317.8 ± 0.2343
420
400
380
360
340
320
300
280
260
240

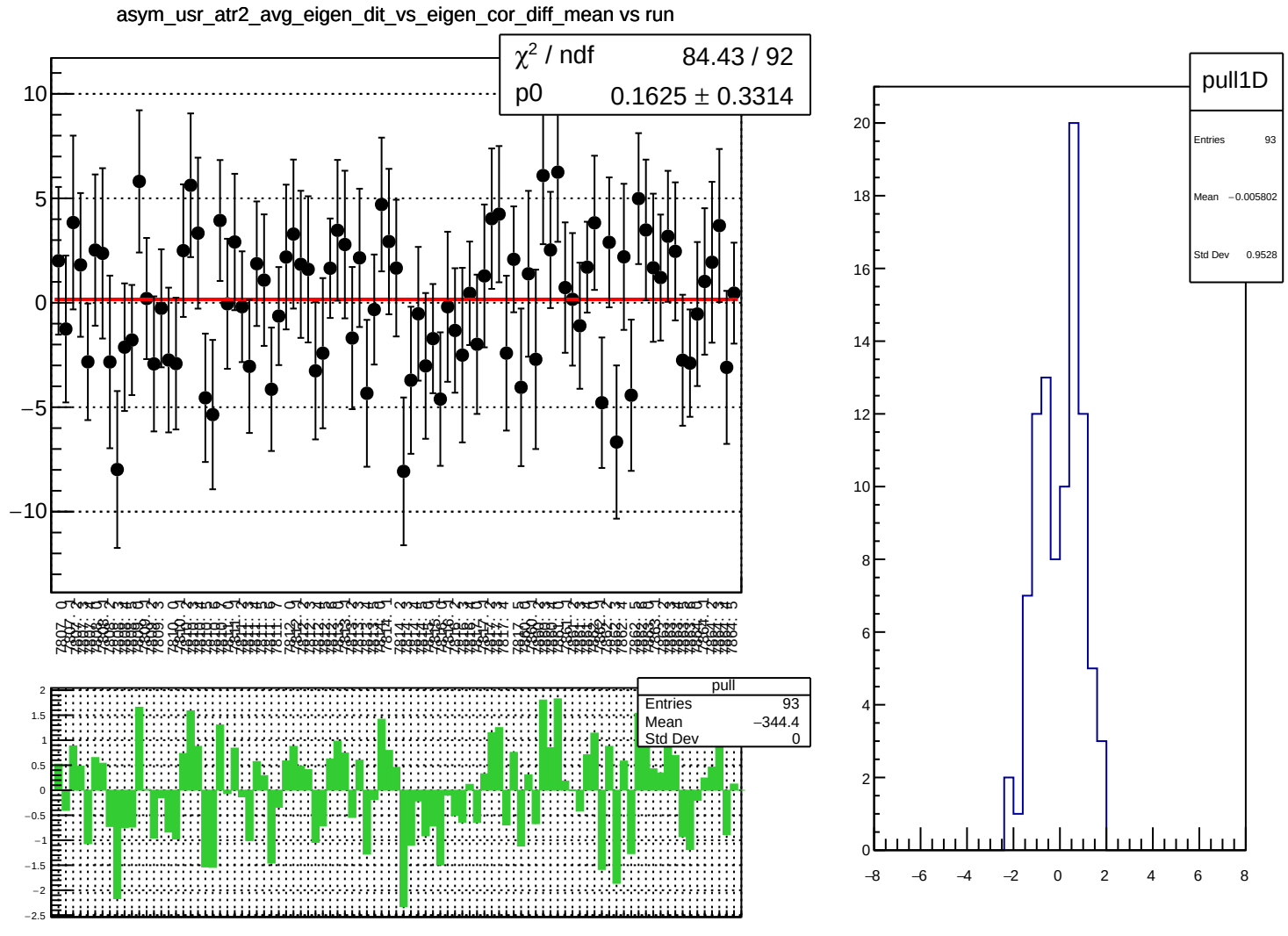

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 76.71 / 92
p0 2.055e−05 ± 2.364e−05
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 93
Mean 466.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

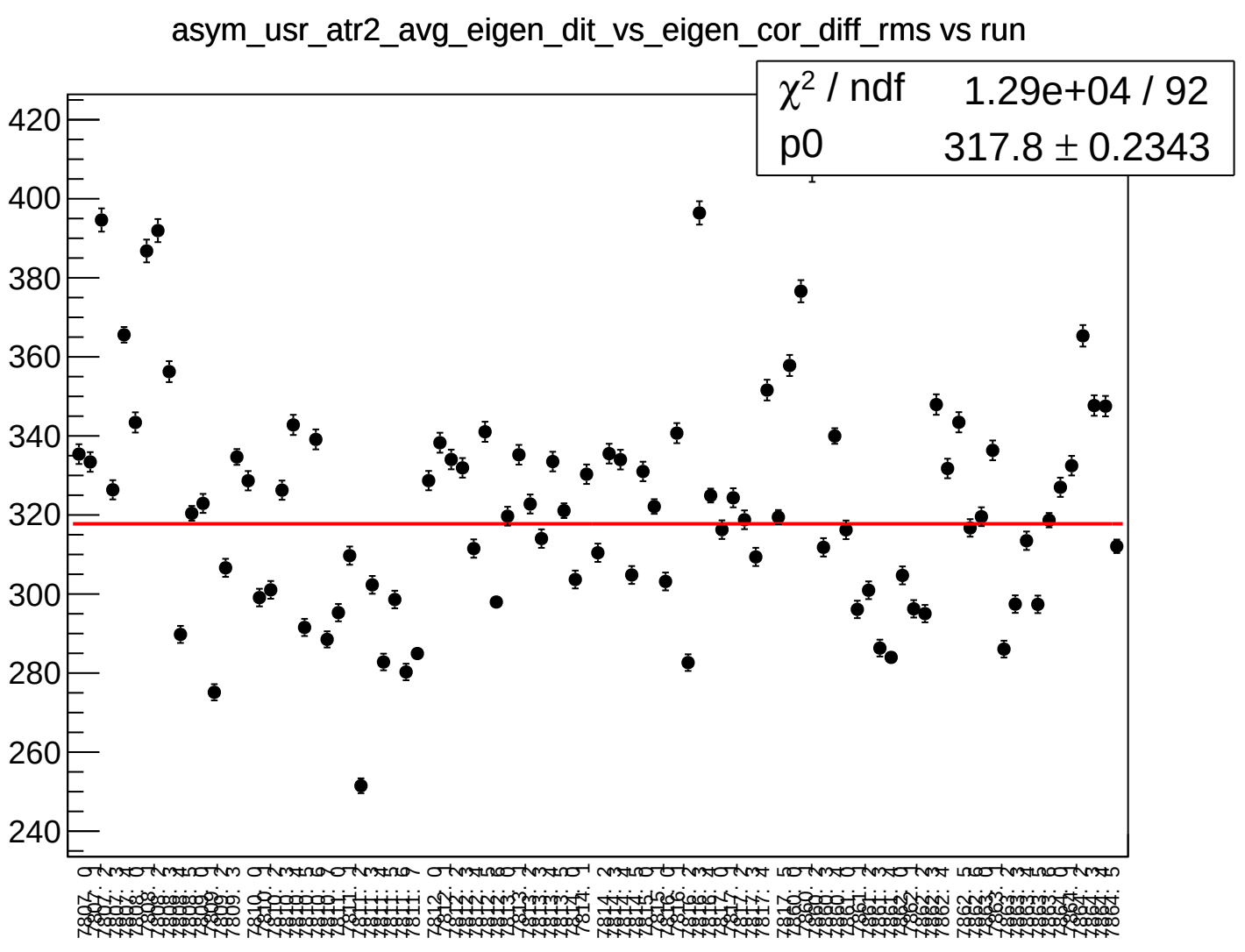

pull1D
Entries 93
Mean 0.001517
Std Dev 0.9082
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

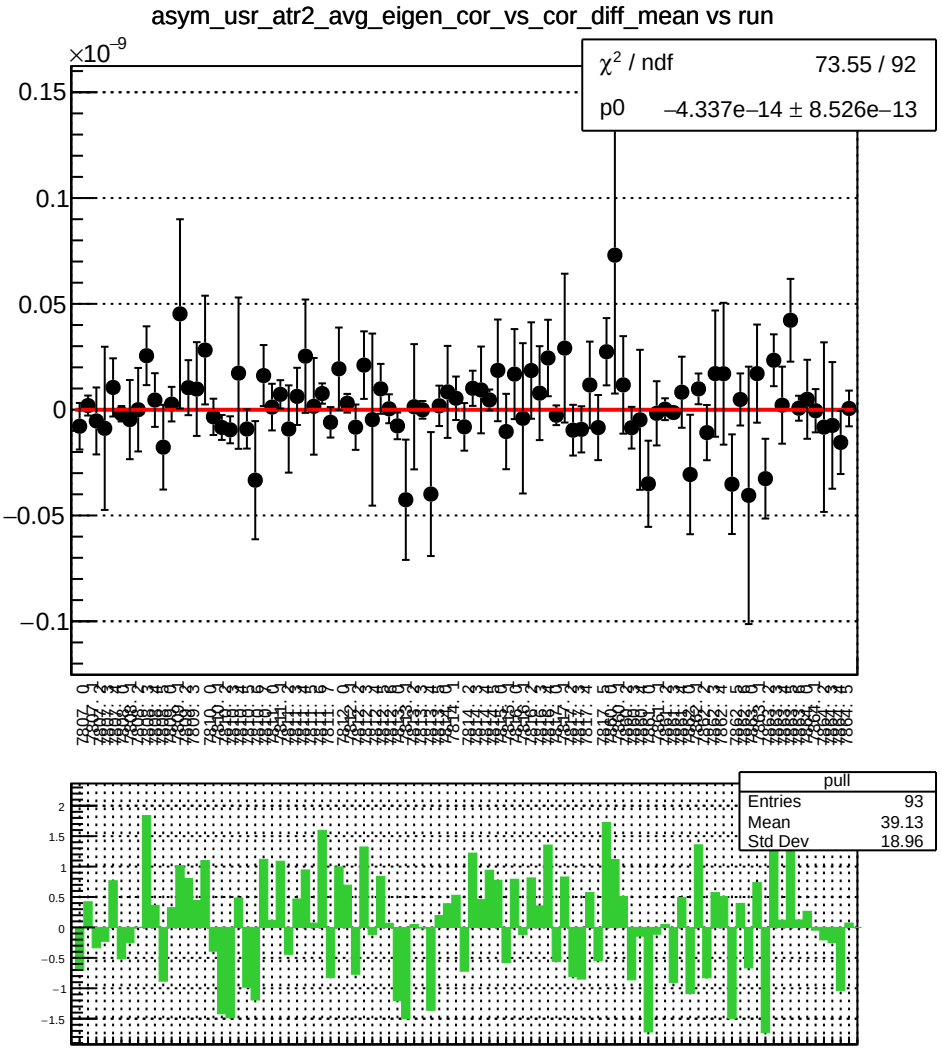

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5999 / 92
p0 0.02271 ± 1.671e–05
0.027
0.026
0.025
0.024
0.023
0.022
0.021

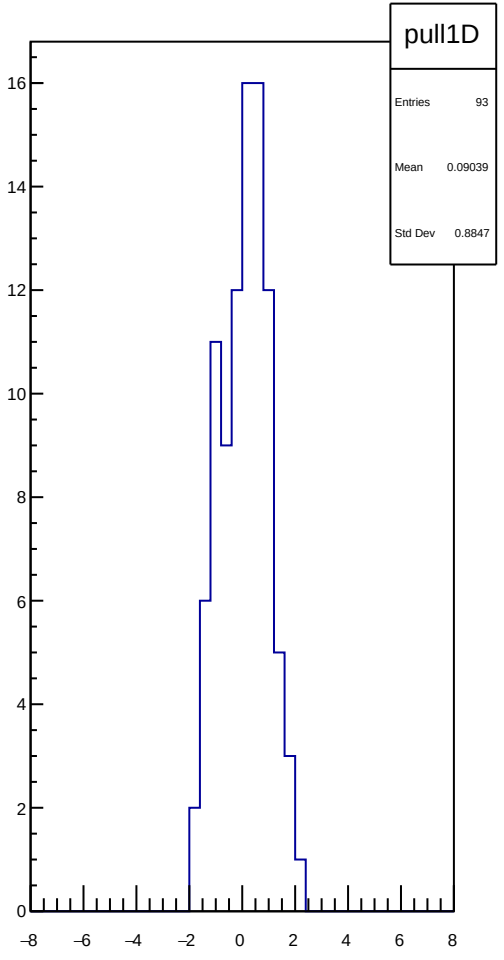

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.43 / 92
p0 0.1625 ± 0.3314
pull
Entries 93
Mean −344.4
Std Dev 0
pull1D
Entries 93
Mean −0.005802
Std Dev 0.9528

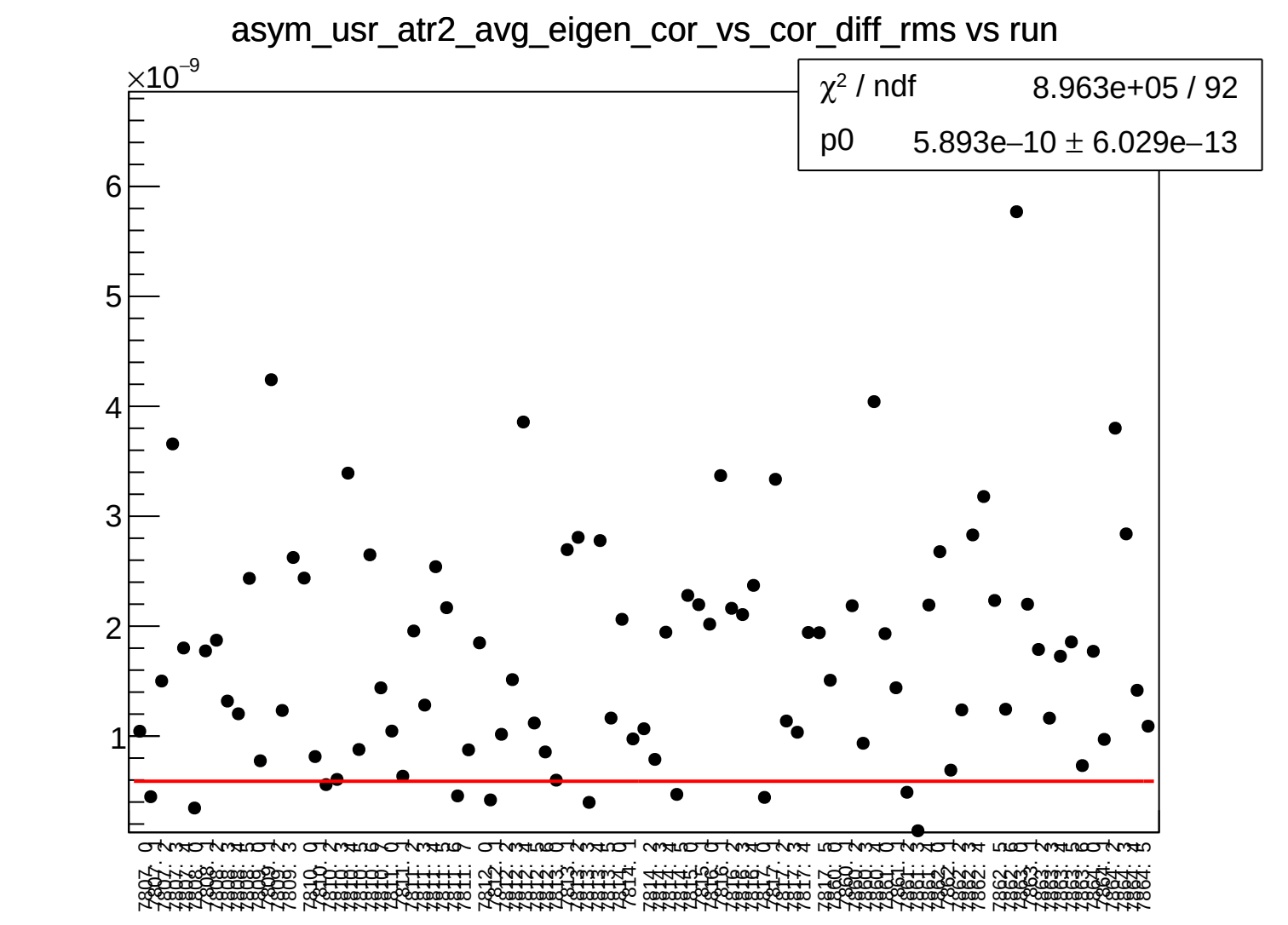

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.29e+04 / 92
p0 317.8 ± 0.2343
420
400
380
360
340
320
300
280
260
240

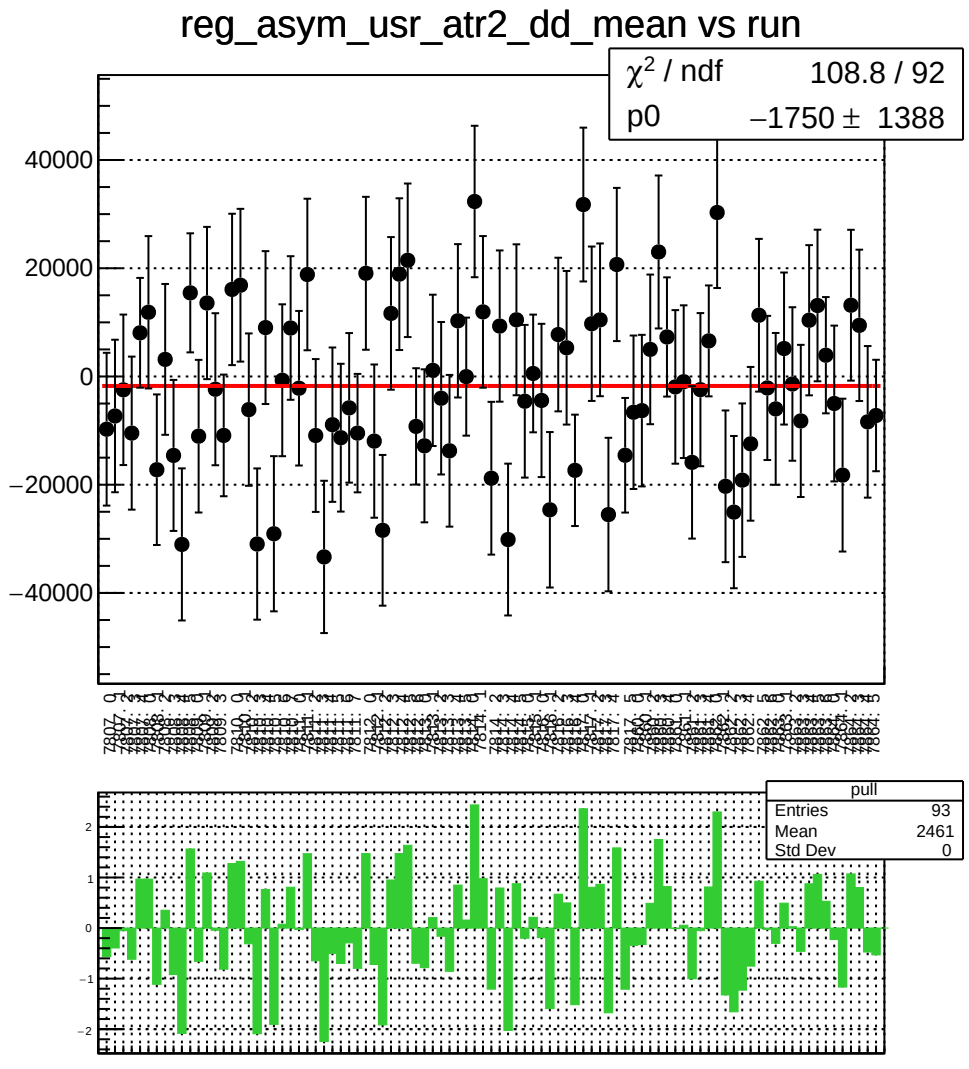

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.43 / 92
p0 0.1625 ± 0.3314
pull
Entries 93
Mean −344.4
Std Dev 0
pull1D
Entries 93
Mean −0.005802
Std Dev 0.9528

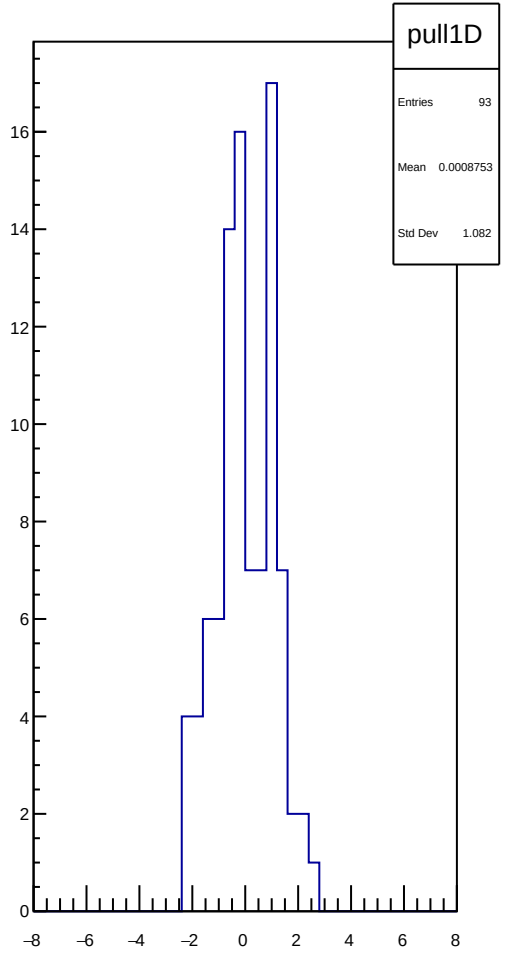

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.29e+04 / 92
p0 317.8 ± 0.2343
420
400
380
360
340
320
300
280
260
240

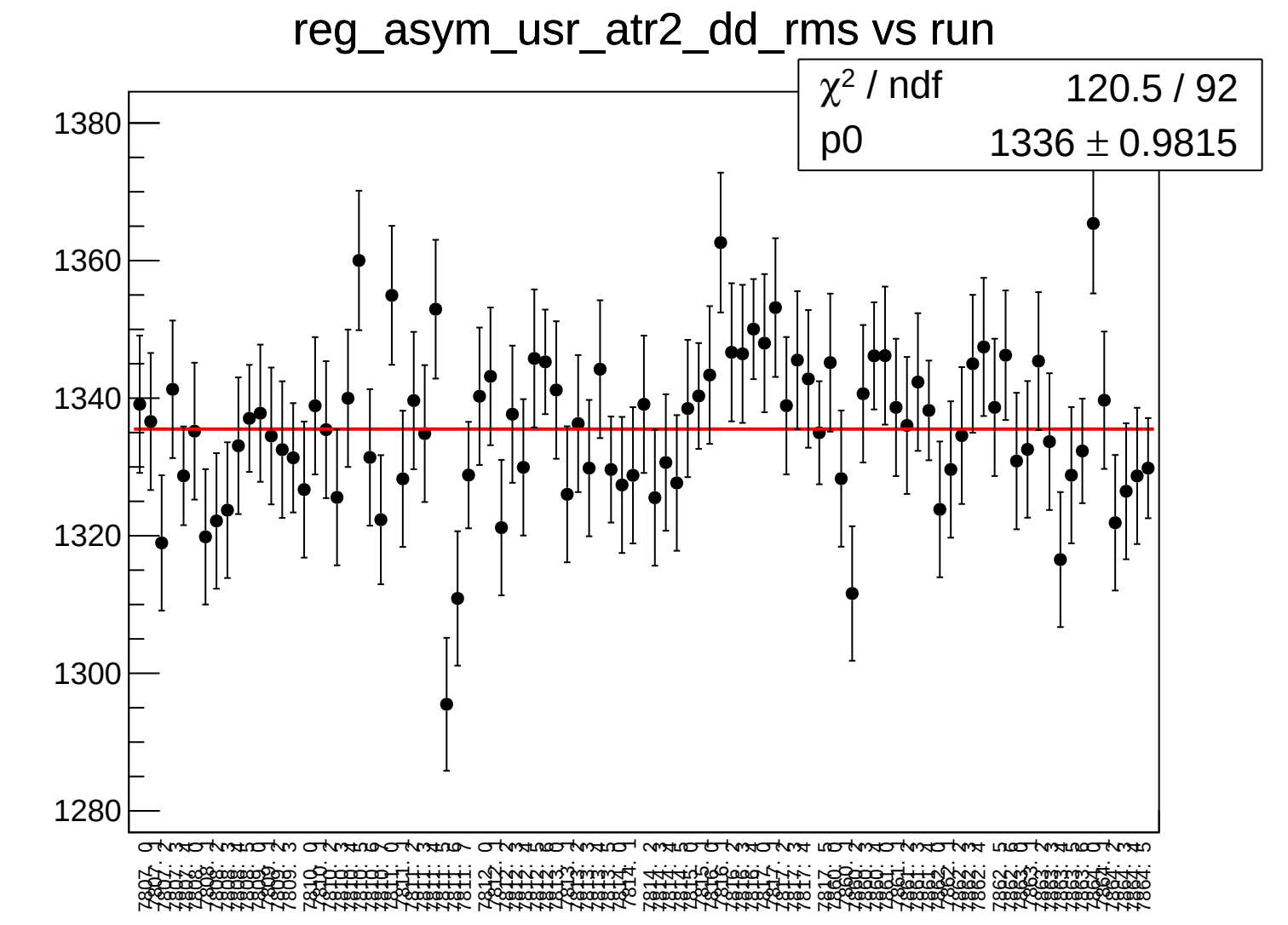

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 73.55 / 92
p0 −4.337e−14 ± 8.526e−13
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 93
Mean 39.13
Std Dev 18.96
2
1.5
1
0.5
0
−0.5
−1
−1.5

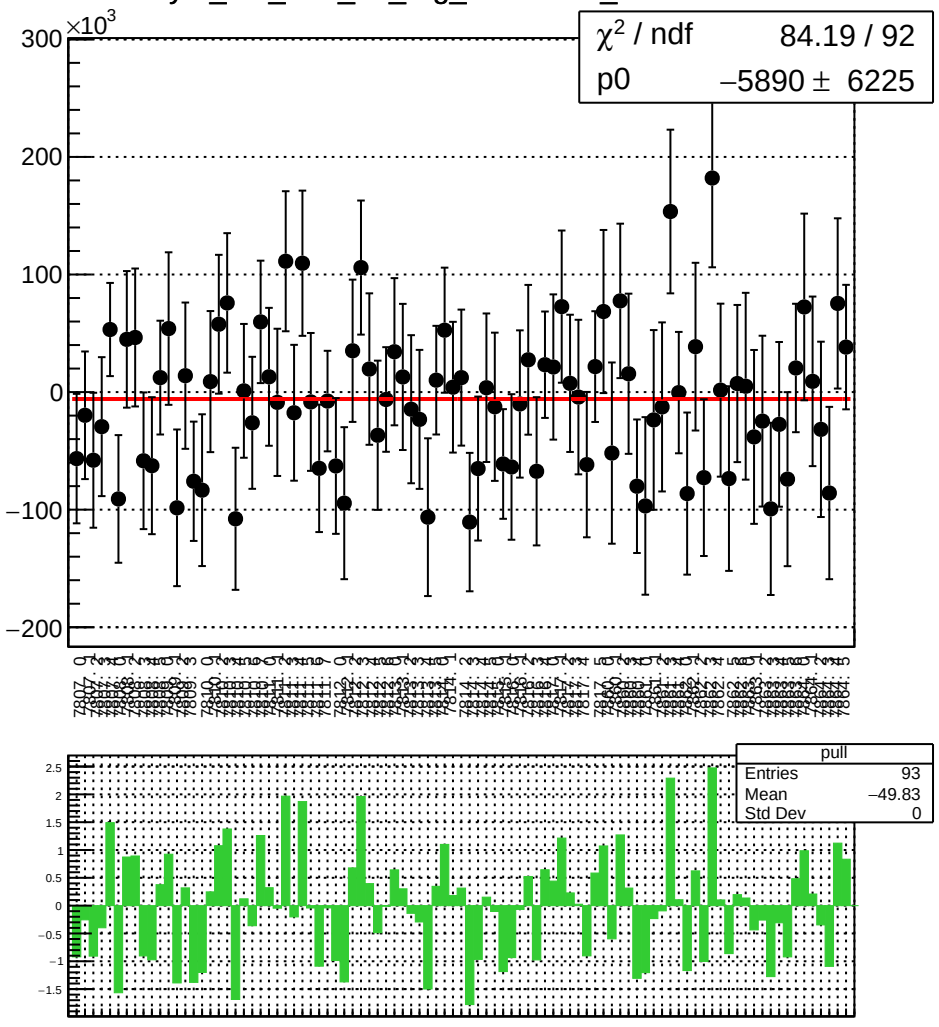

pull1D
Entries 93
Mean 0.09039
Std Dev 0.8847
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

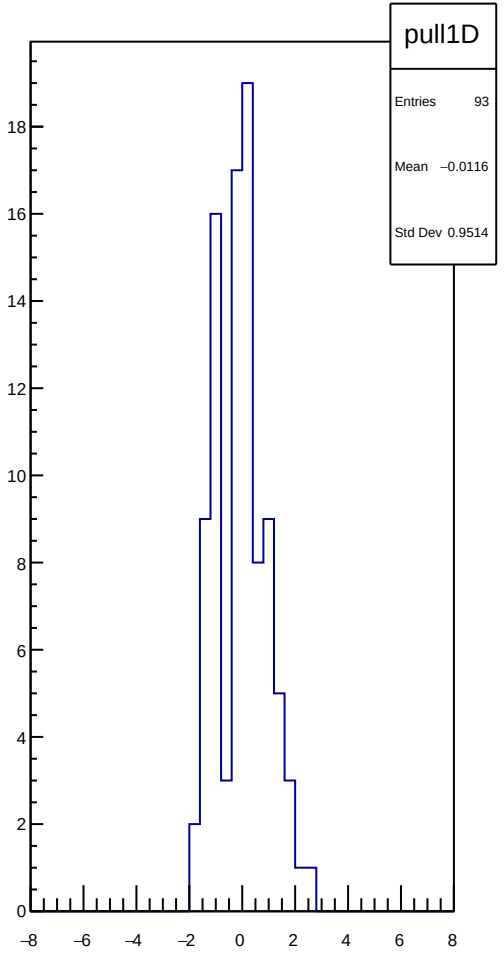

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.963e+05 / 92
p0 5.893e−10 ± 6.029e−13
6
5
4
3
2
1

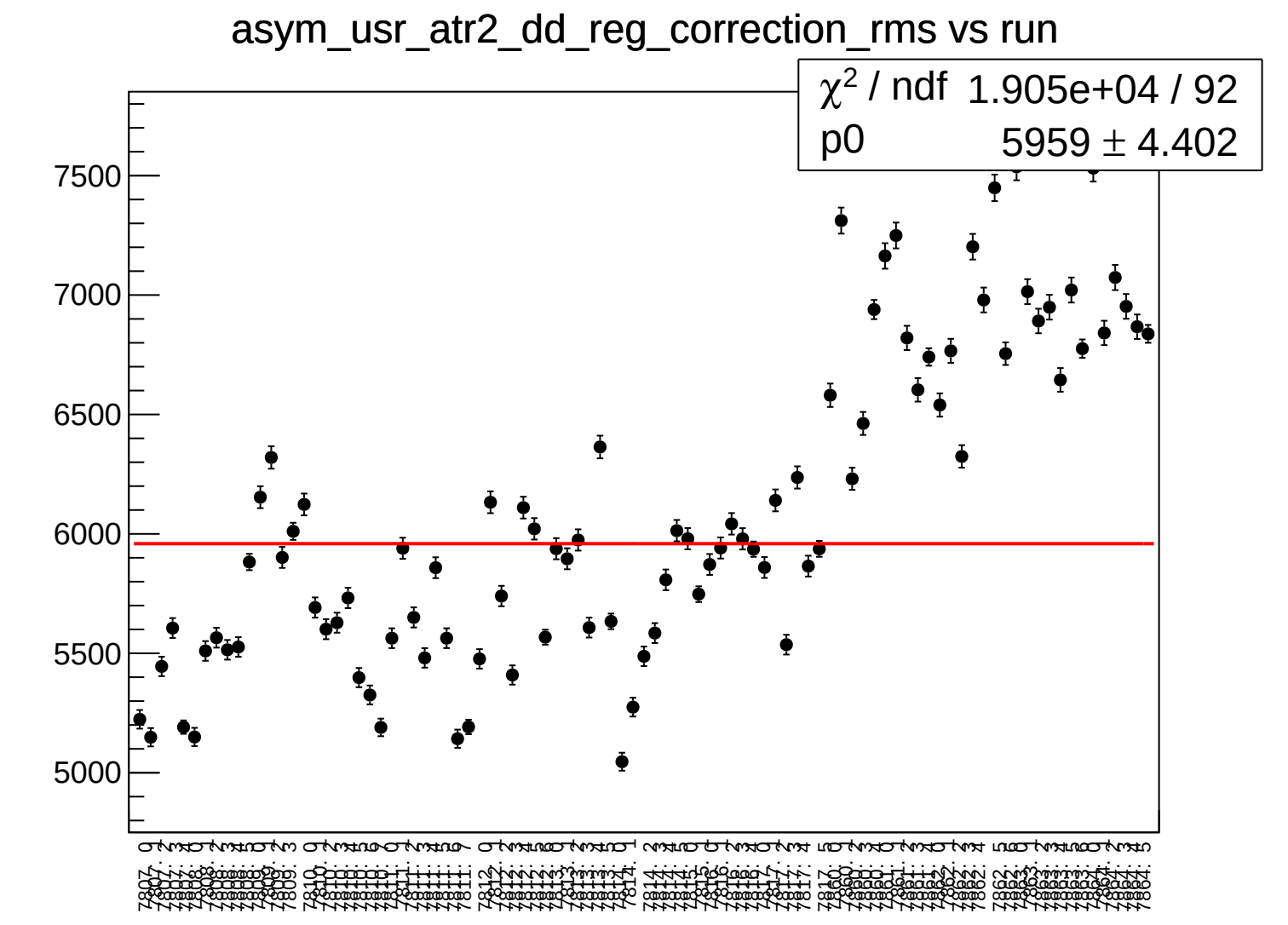

reg_asym_usr_atr2_dd_mean vs run
χ² / ndf 108.8 / 92
p0 −1750 ± 1388
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 2461
Std Dev 0
2
1
0
−1
−2

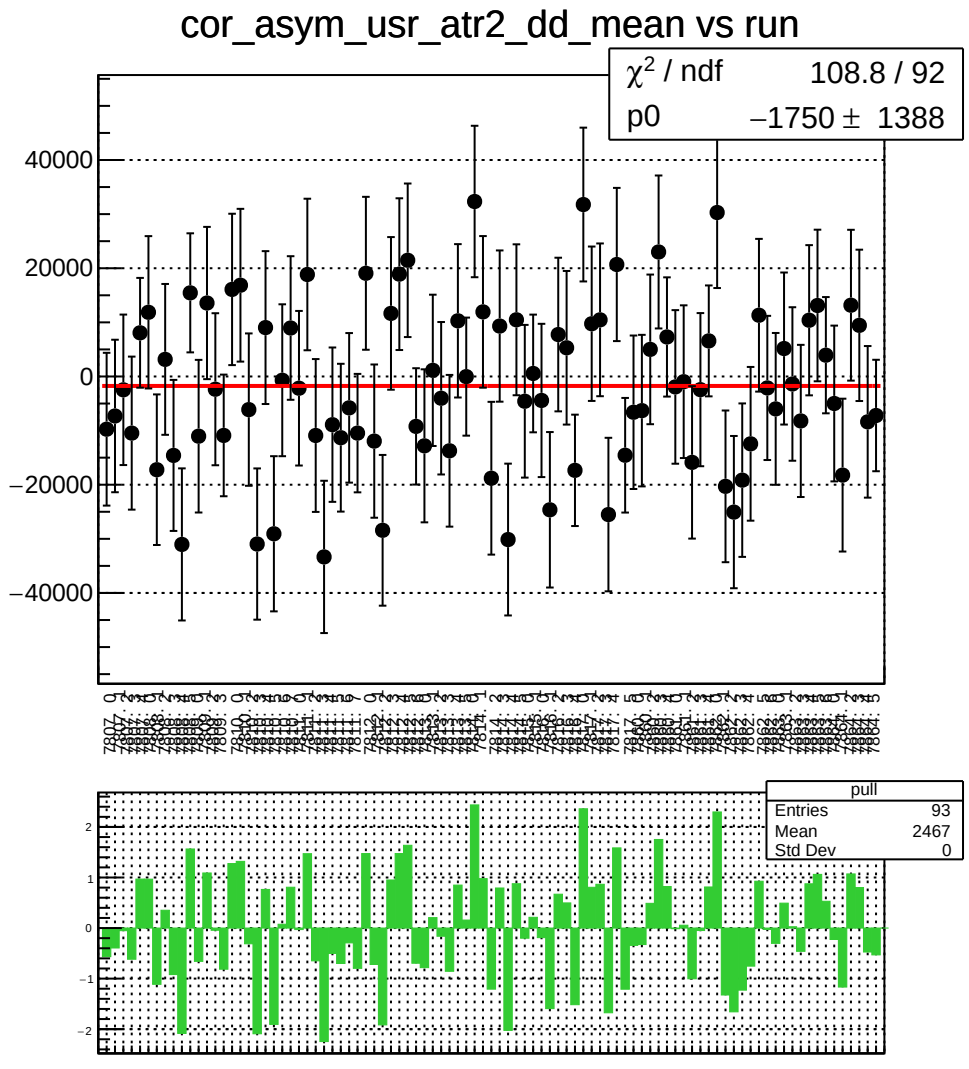

pull1D
Entries 93
Mean 0.0008753
Std Dev 1.082
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

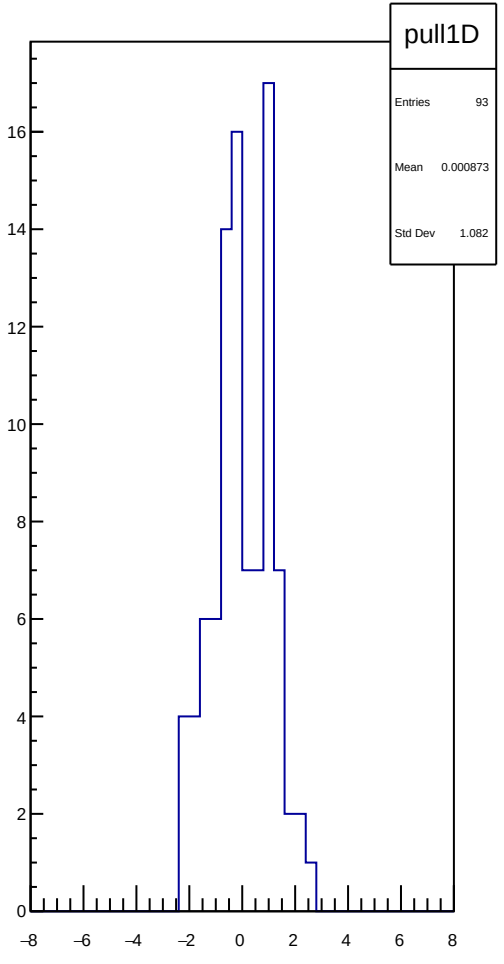

reg_asym_usr_atr2_dd_rms vs run
χ² / ndf 120.5 / 92
p0 1336 ± 0.9815
1380
1360
1340
1320
1300
1280

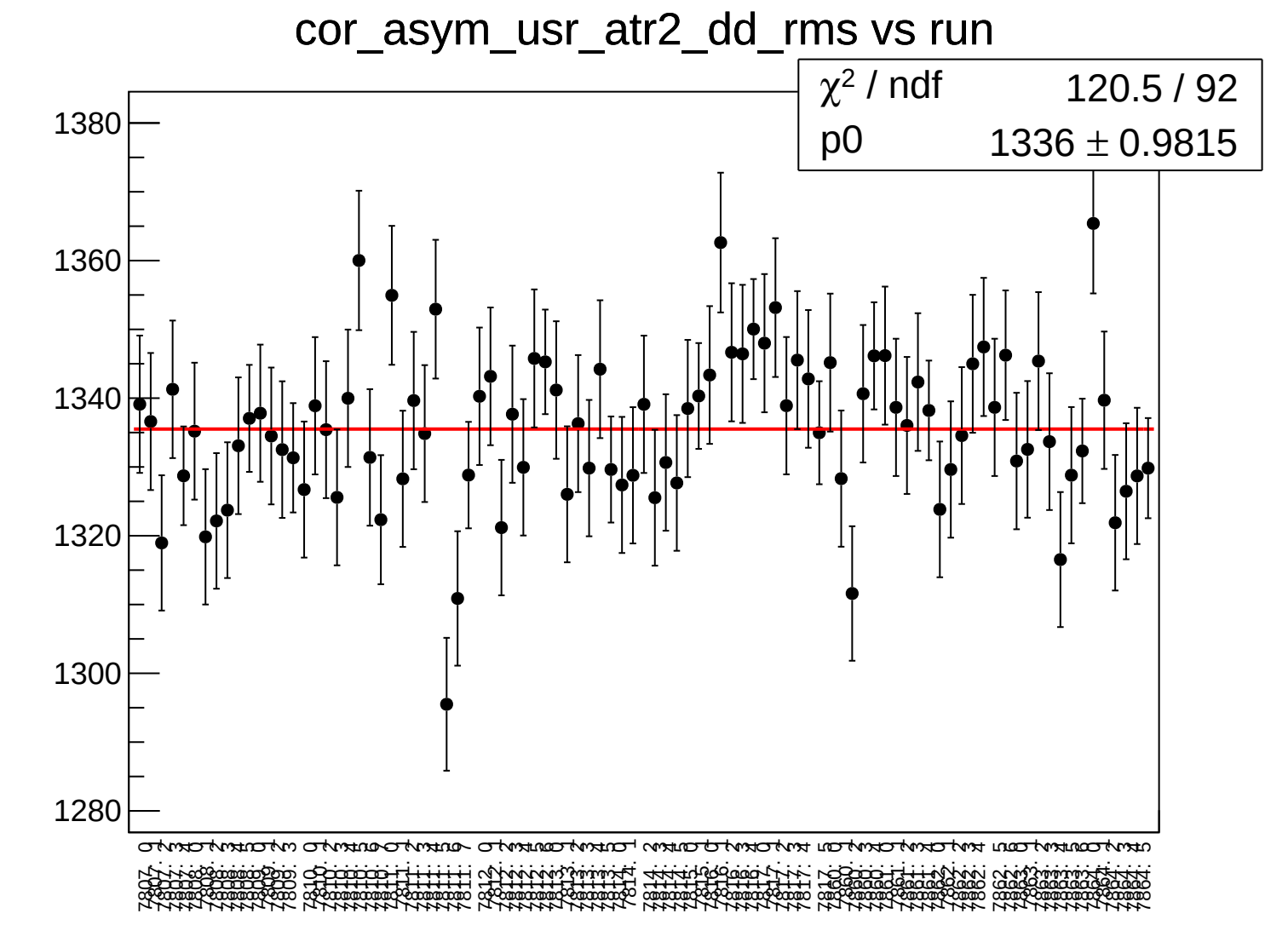

asym_usr_atr2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 84.19 / 92
p0 −5890 ± 6225
pull
Entries 93
Mean −49.83
Std Dev 0

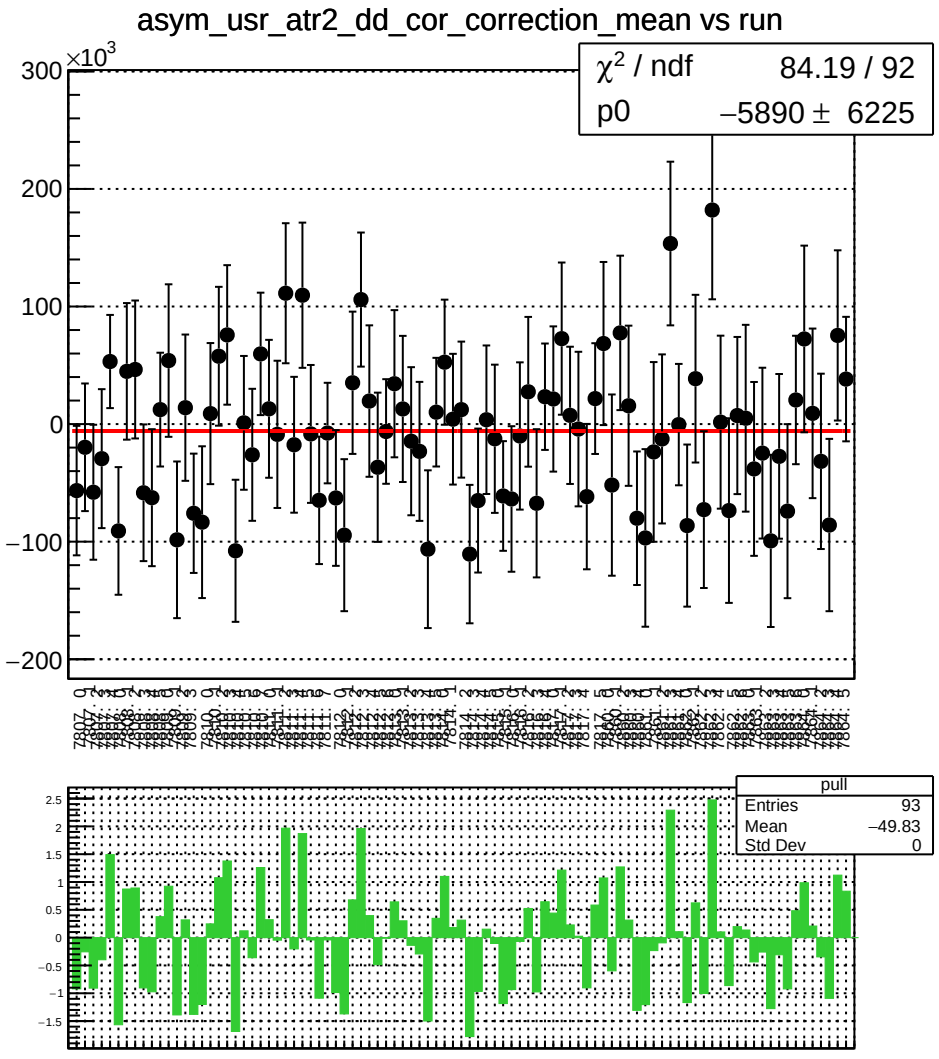

pull1D
Entries 93
Mean −0.0116
Std Dev 0.9514

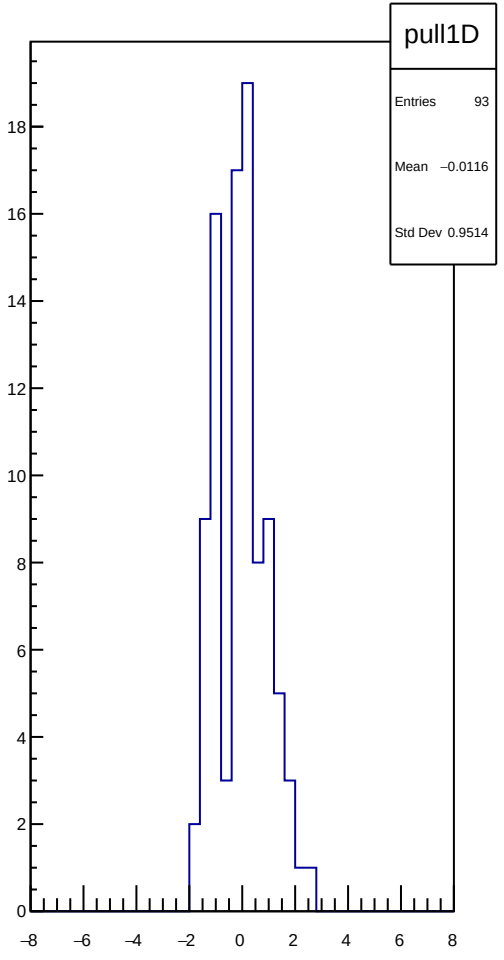

asym_usr_atr2_dd_reg_correction_rms vs run
χ² / ndf 1.905e+04 / 92
p0 5959 ± 4.402
7500
7000
6500
6000
5500
5000

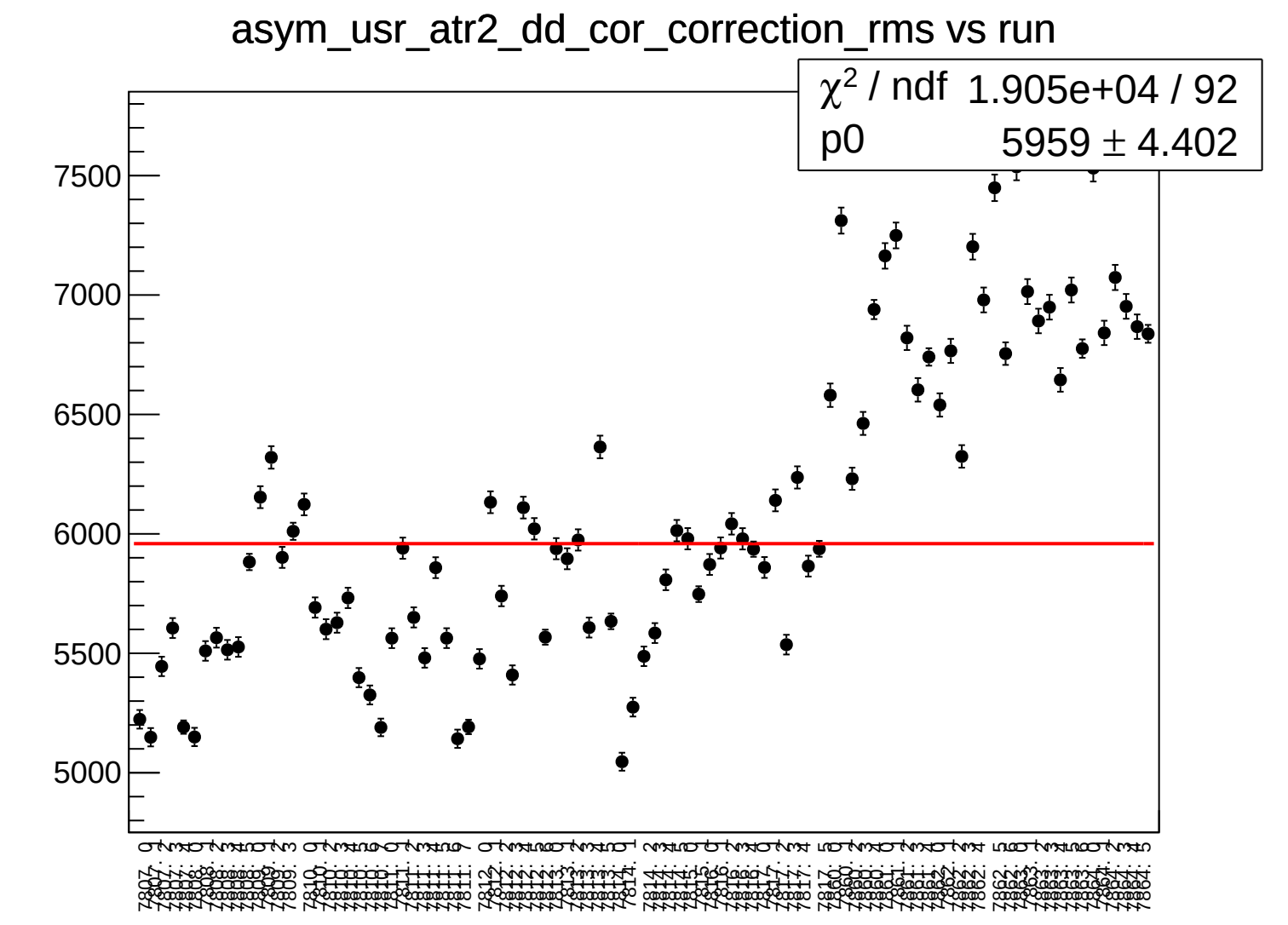

cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 108.8 / 92
p0 −1750 ± 1388
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 2467
Std Dev 0
2
1
0
−1
−2

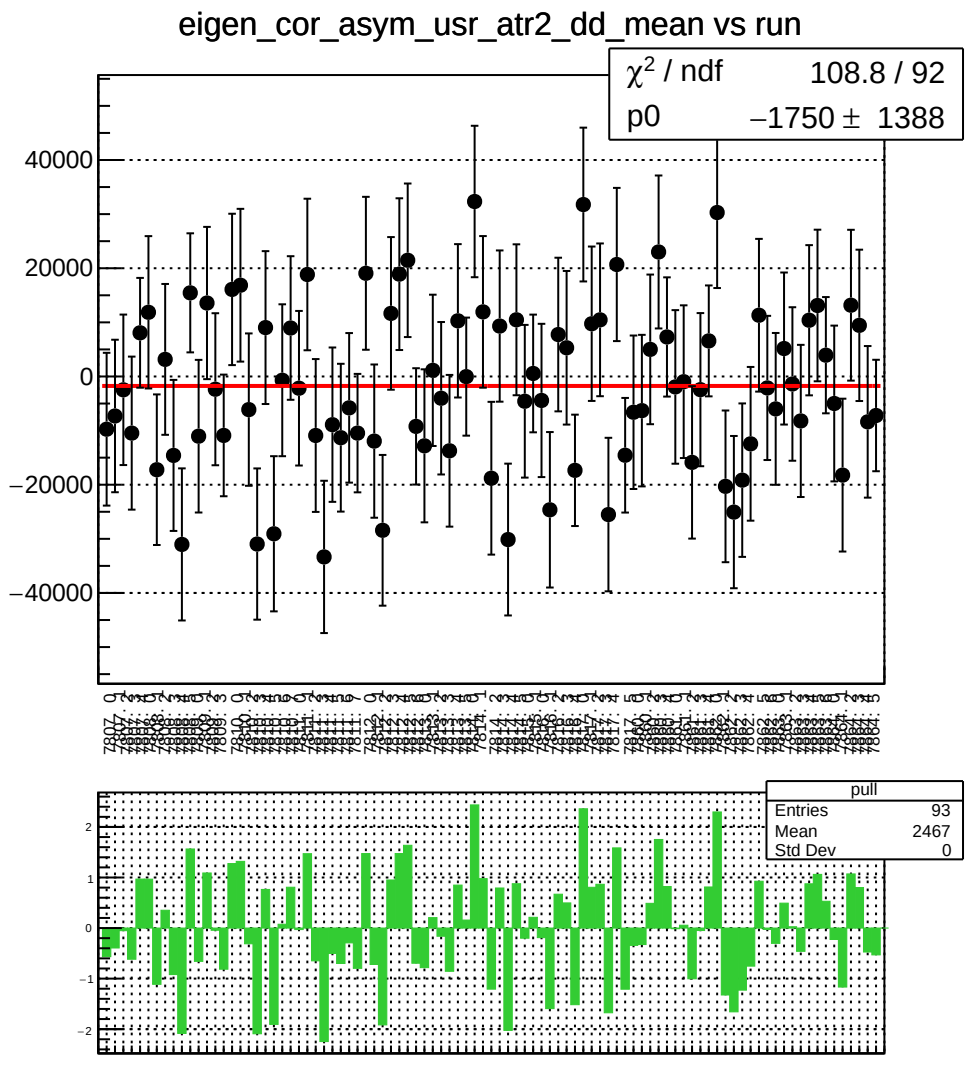

pull1D
Entries 93
Mean 0.000873
Std Dev 1.082
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

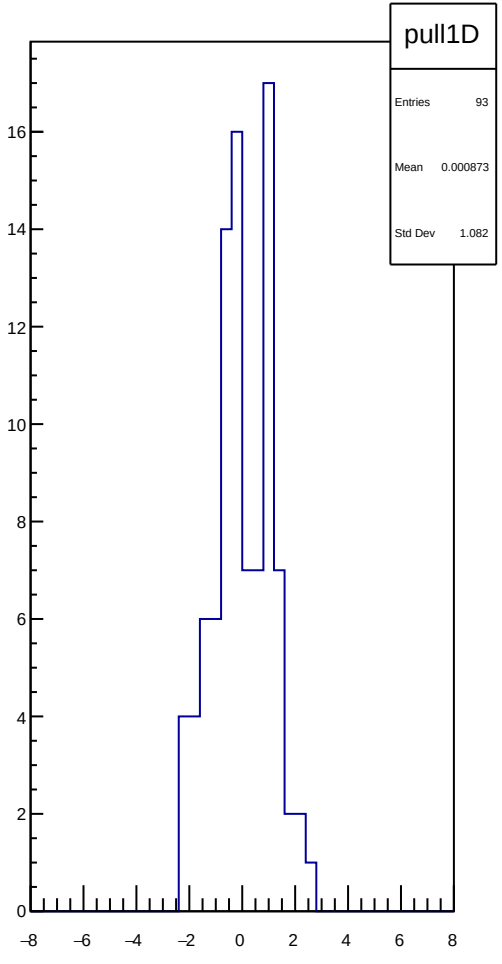

cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 120.5 / 92
p0 1336 ± 0.9815
1380
1360
1340
1320
1300
1280

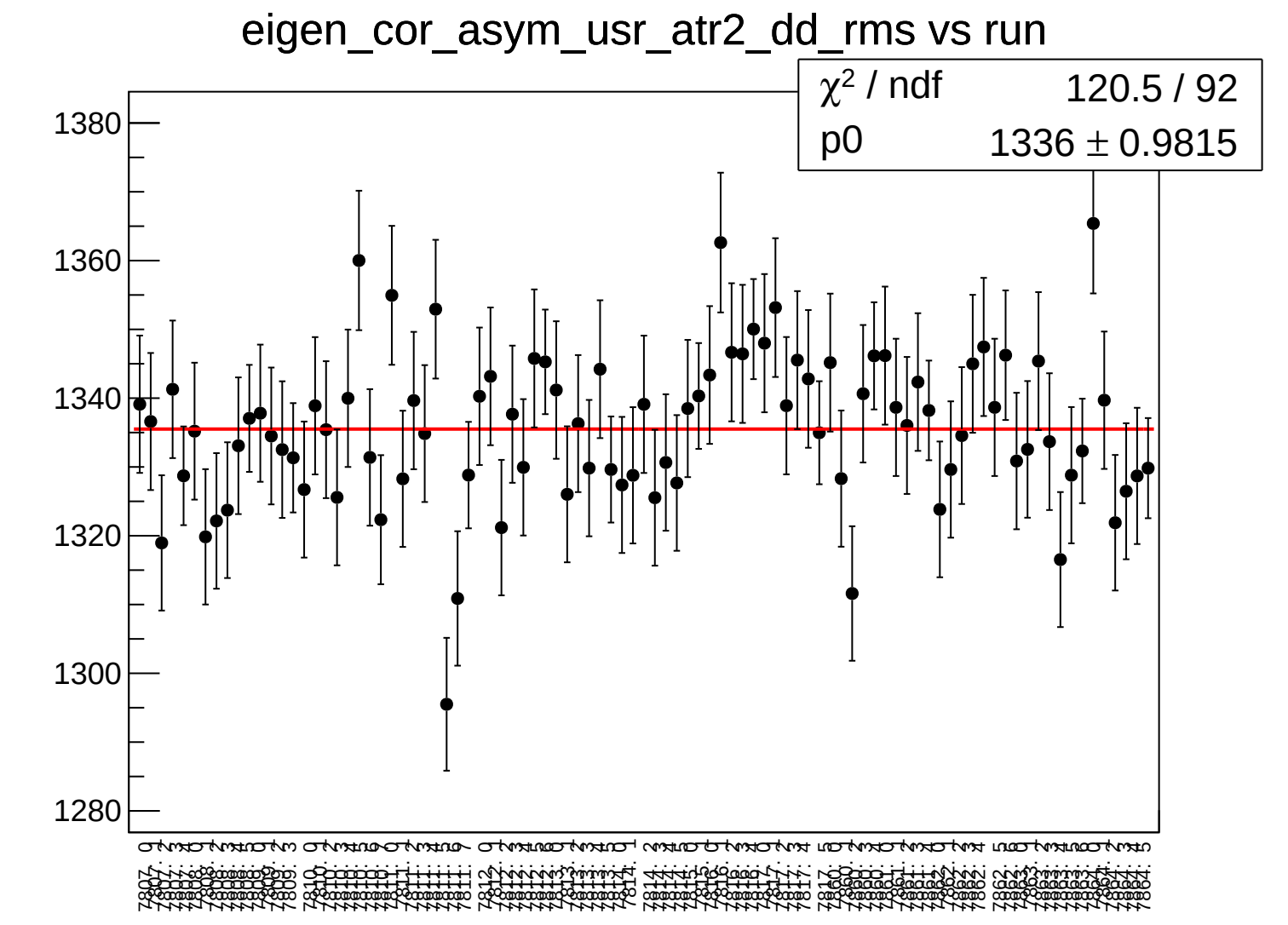

asym_usr_atr2_dd_cor_correction_mean vs run
χ² / ndf 84.19 / 92
p0 −5890 ± 6225
×10³
pull
Entries 93
Mean −49.83
Std Dev 0

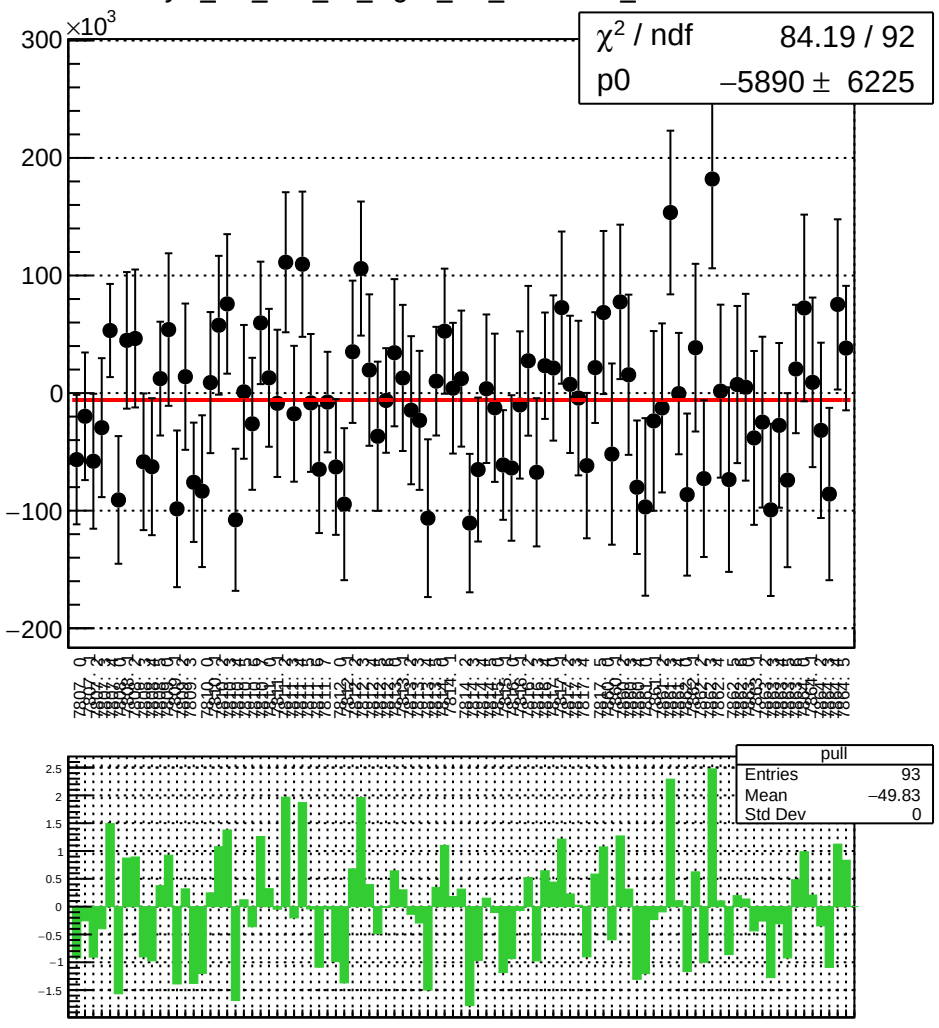

pull1D
Entries 93
Mean −0.0116
Std Dev 0.9514

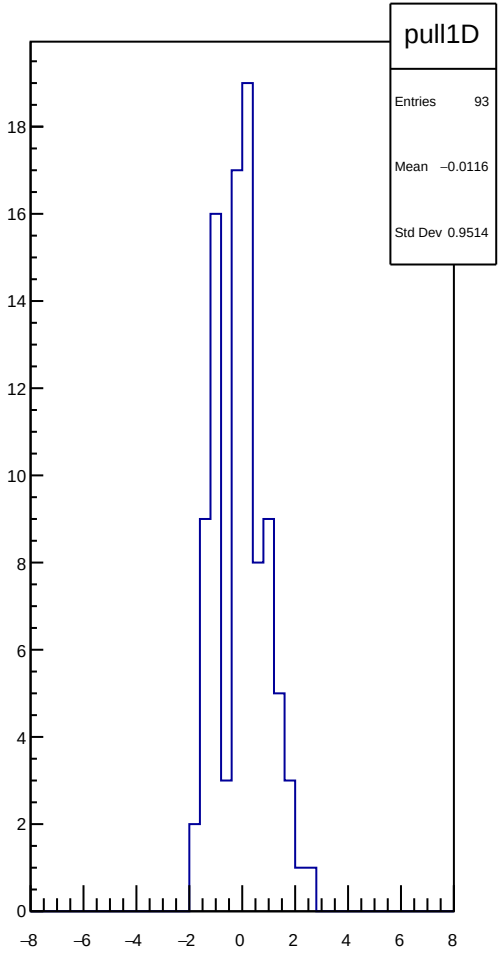

asym_usr_atr2_dd_cor_correction_rms vs run
χ² / ndf 1.905e+04 / 92
p0 5959 ± 4.402
7500
7000
6500
6000
5500
5000

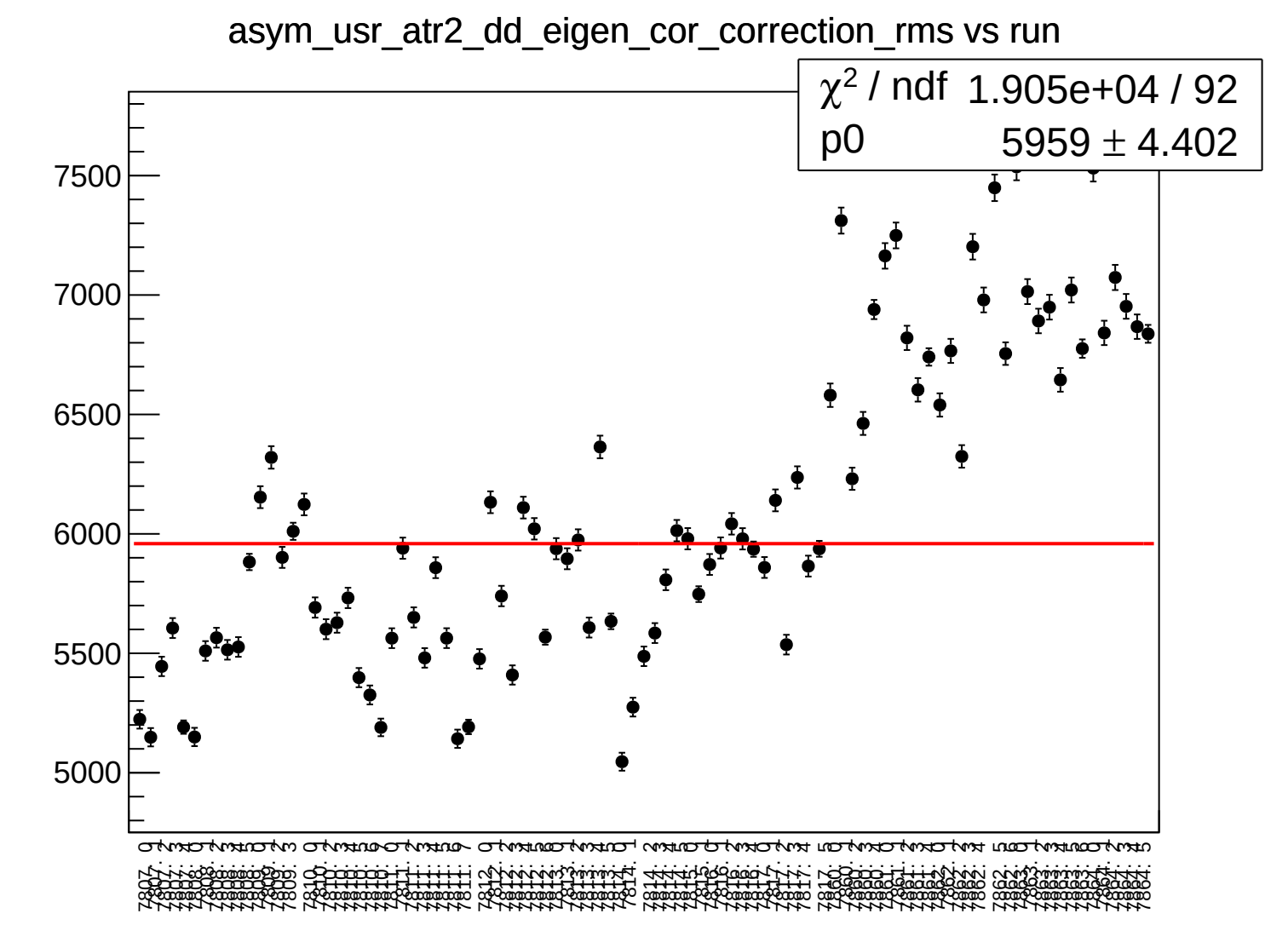

eigen_cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 108.8 / 92
p0 −1750 ± 1388
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 2467
Std Dev 0
2
1
0
−1
−2

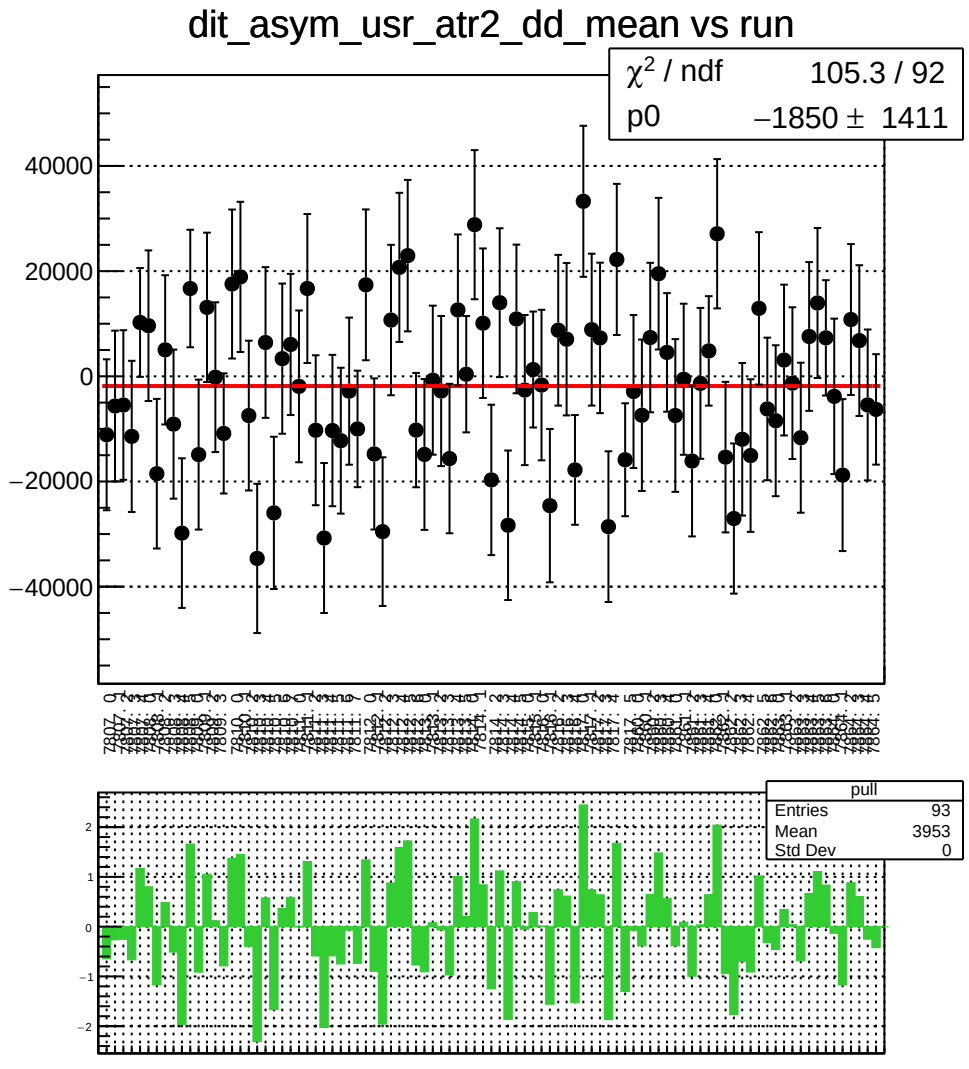

pull1D
Entries 93
Mean 0.000873
Std Dev 1.082
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

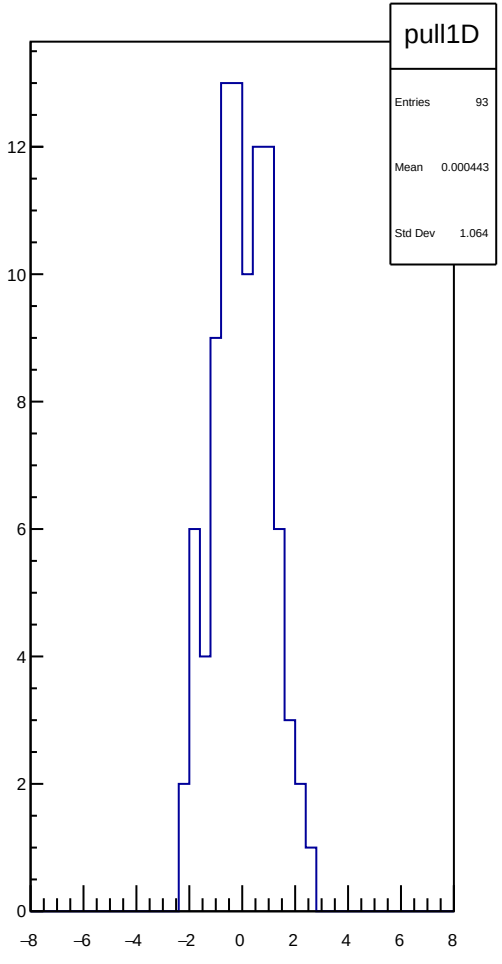

eigen_cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 120.5 / 92
p0 1336 ± 0.9815
1380
1360
1340
1320
1300
1280

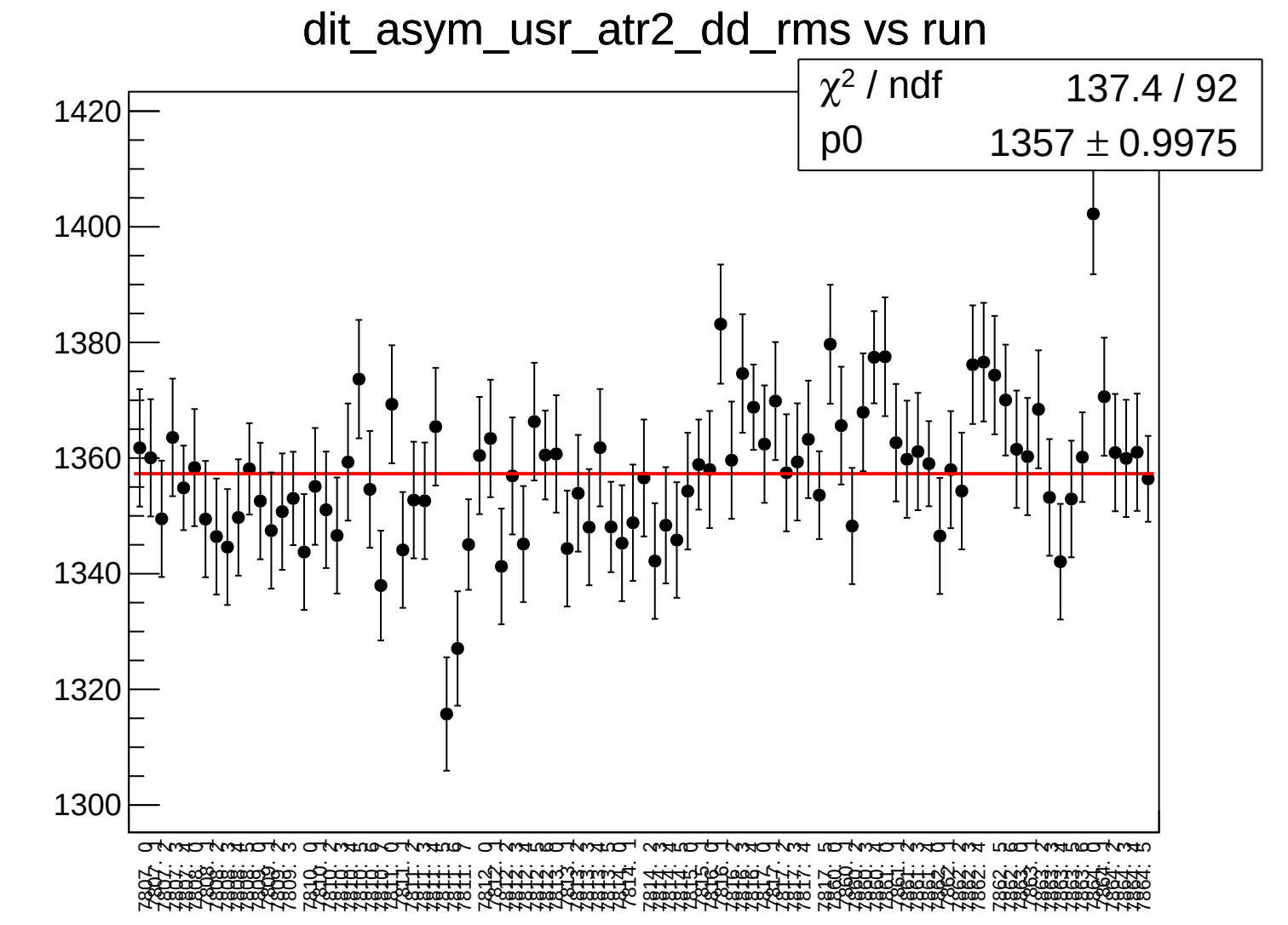

asym_usr_atr2_dd_eigen_cor_correction_mean vs run
χ² / ndf 84.19 / 92
p0 −5890 ± 6225
×10³
300
200
100
0
−100
−200
pull
Entries 93
Mean −49.83
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

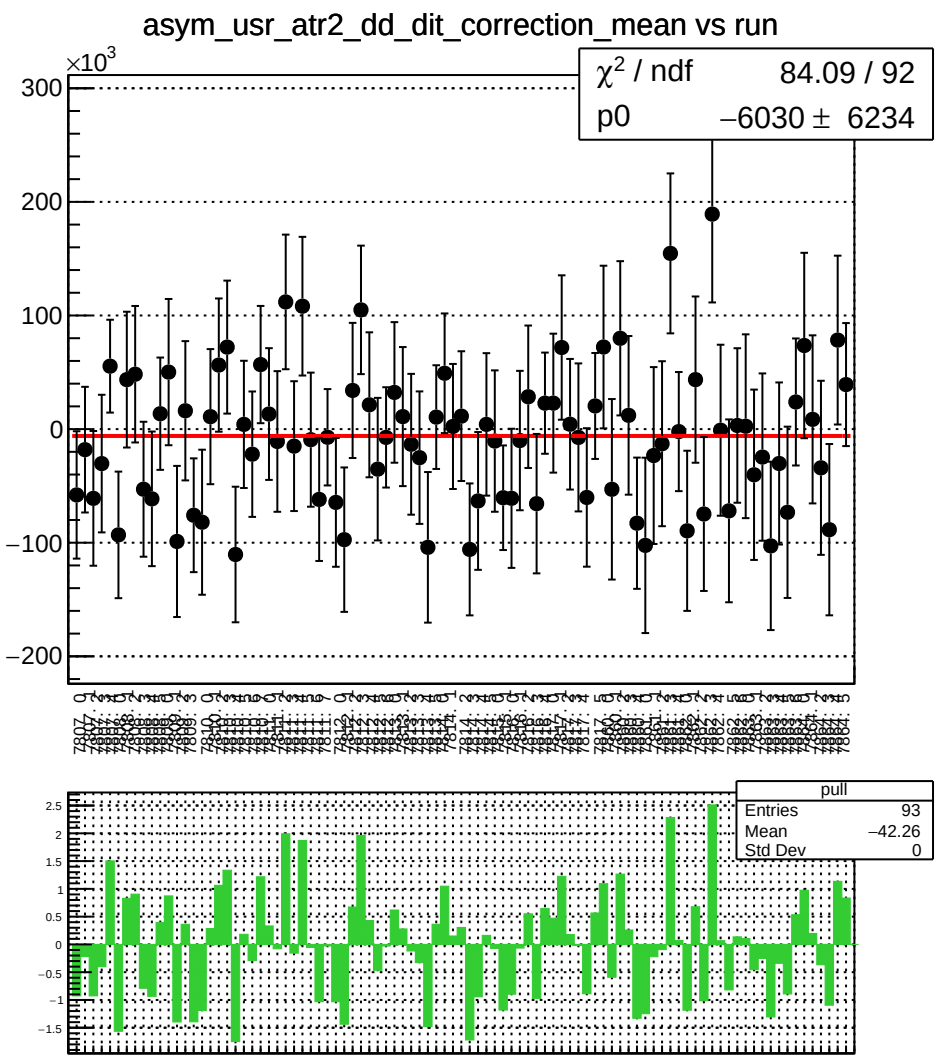

pull1D
Entries 93
Mean −0.0116
Std Dev 0.9514
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

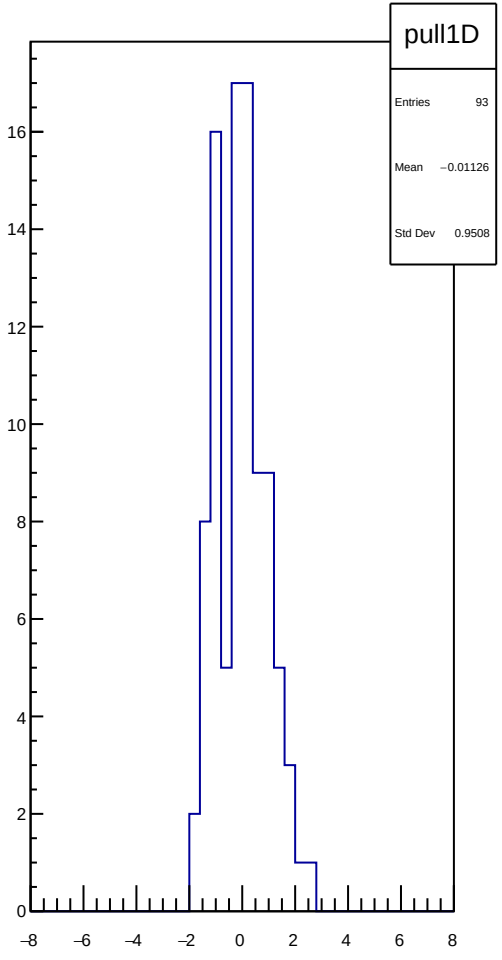

asym_usr_atr2_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.905e+04 / 92
p0 5959 ± 4.402
7500
7000
6500
6000
5500
5000


dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 105.3 / 92
p0 −1850 ± 1411
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 3953
Std Dev 0
2
1
0
−1
−2

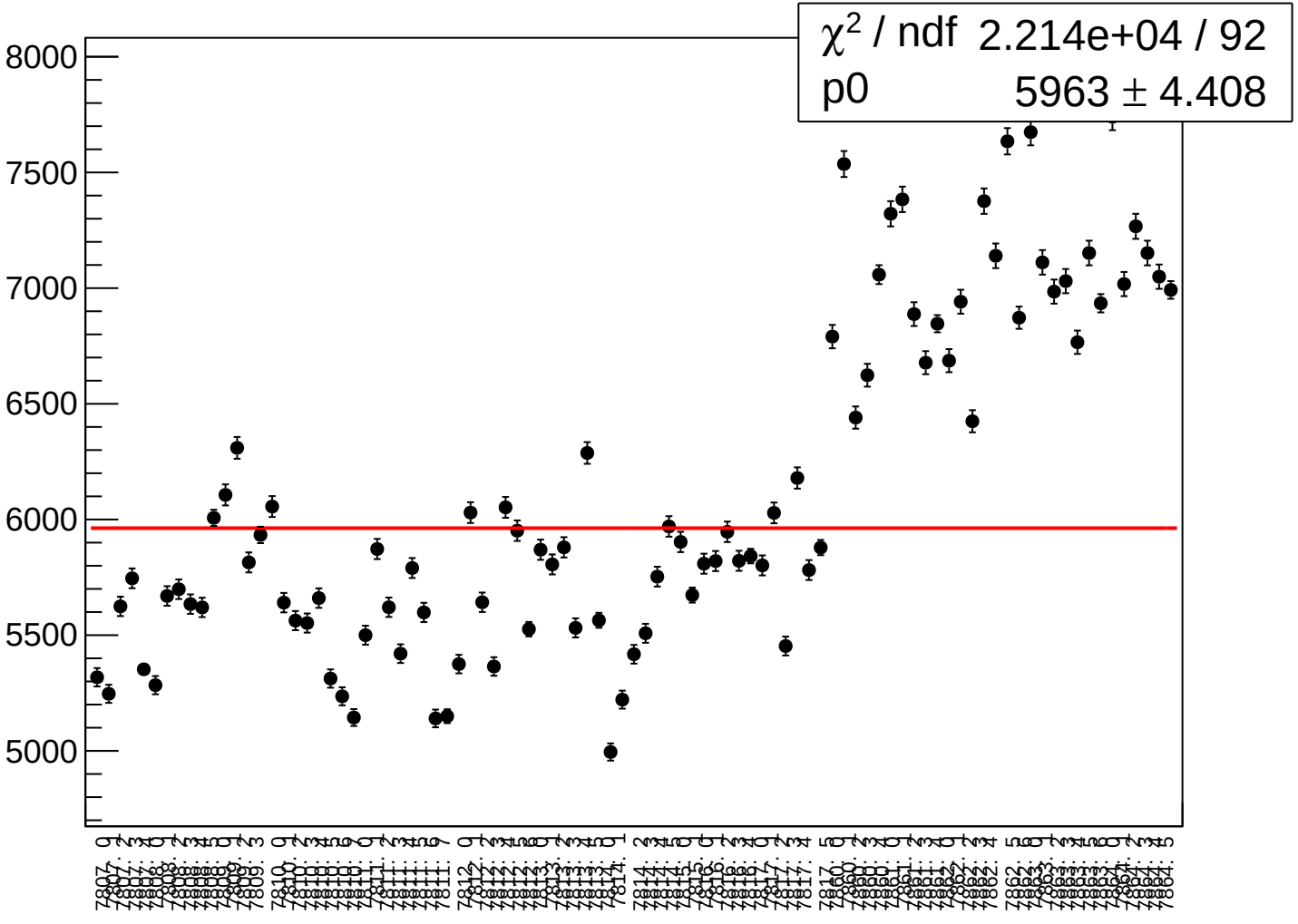

pull1D
Entries 93
Mean 0.000443
Std Dev 1.064
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

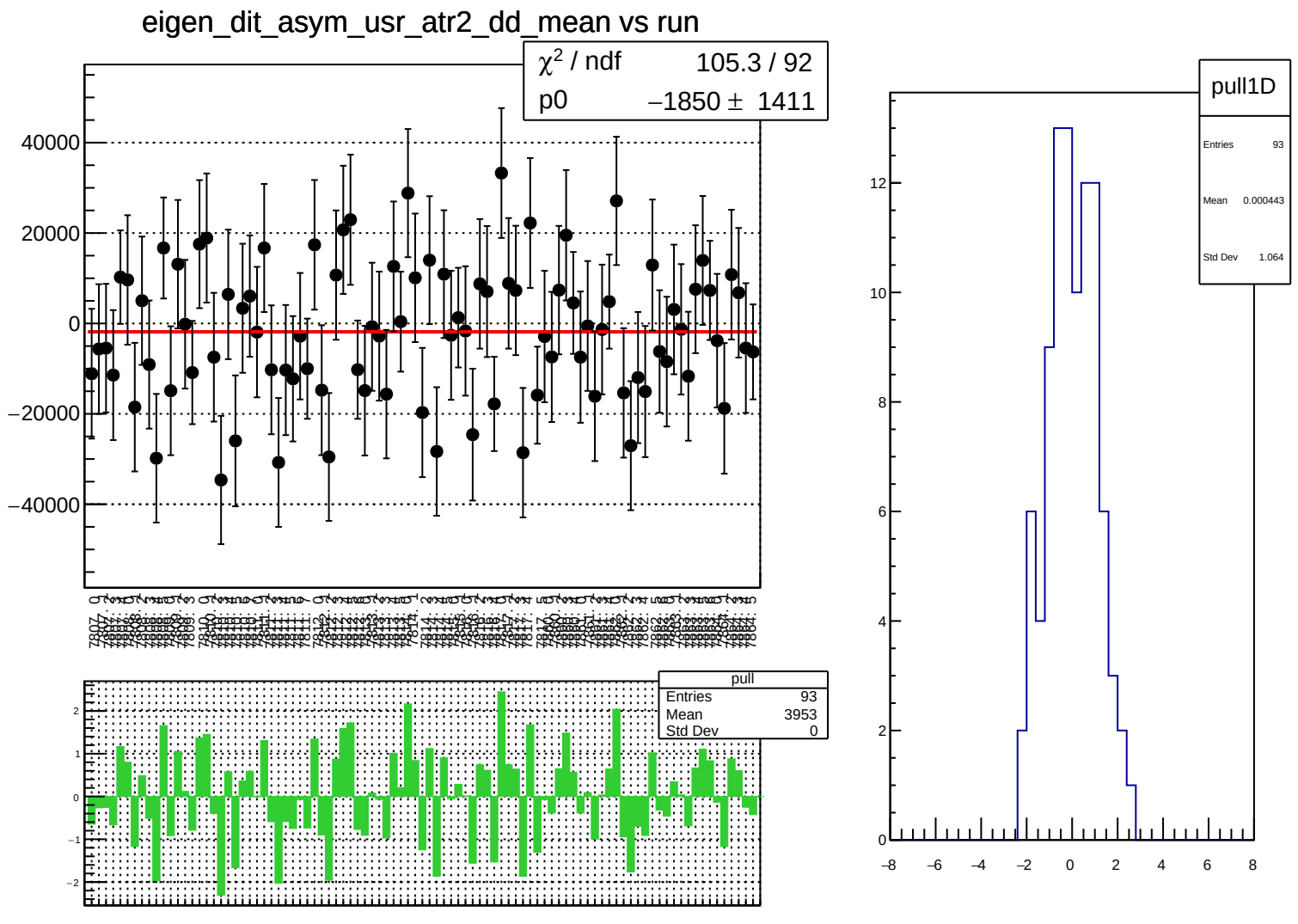

dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 137.4 / 92
p0 1357 ± 0.9975
1420
1400
1380
1360
1340
1320
1300

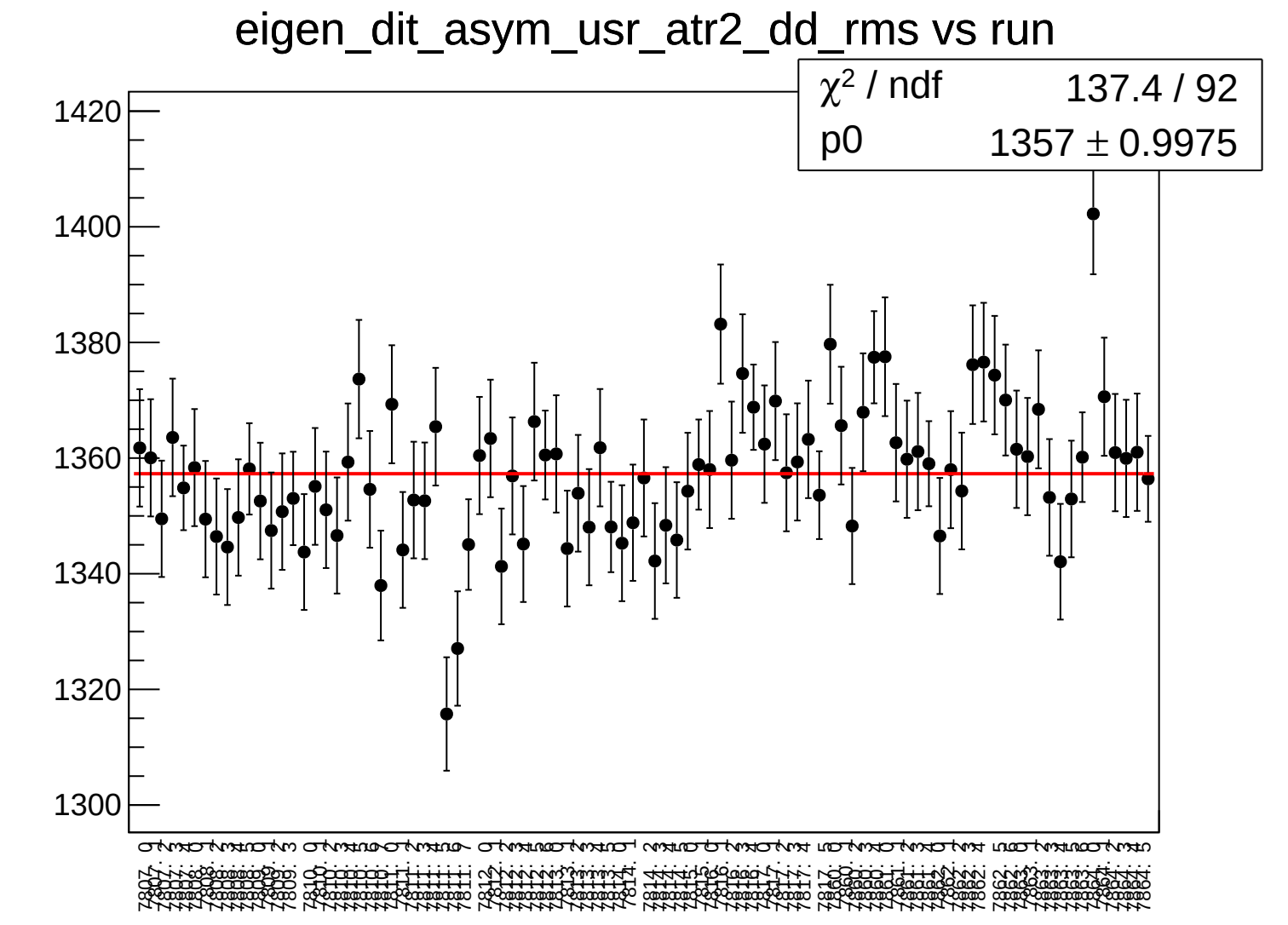

asym_usr_atr2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 84.09 / 92
p0 −6030 ± 6234
300
200
100
0
−100
−200
pull
Entries 93
Mean −42.26
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

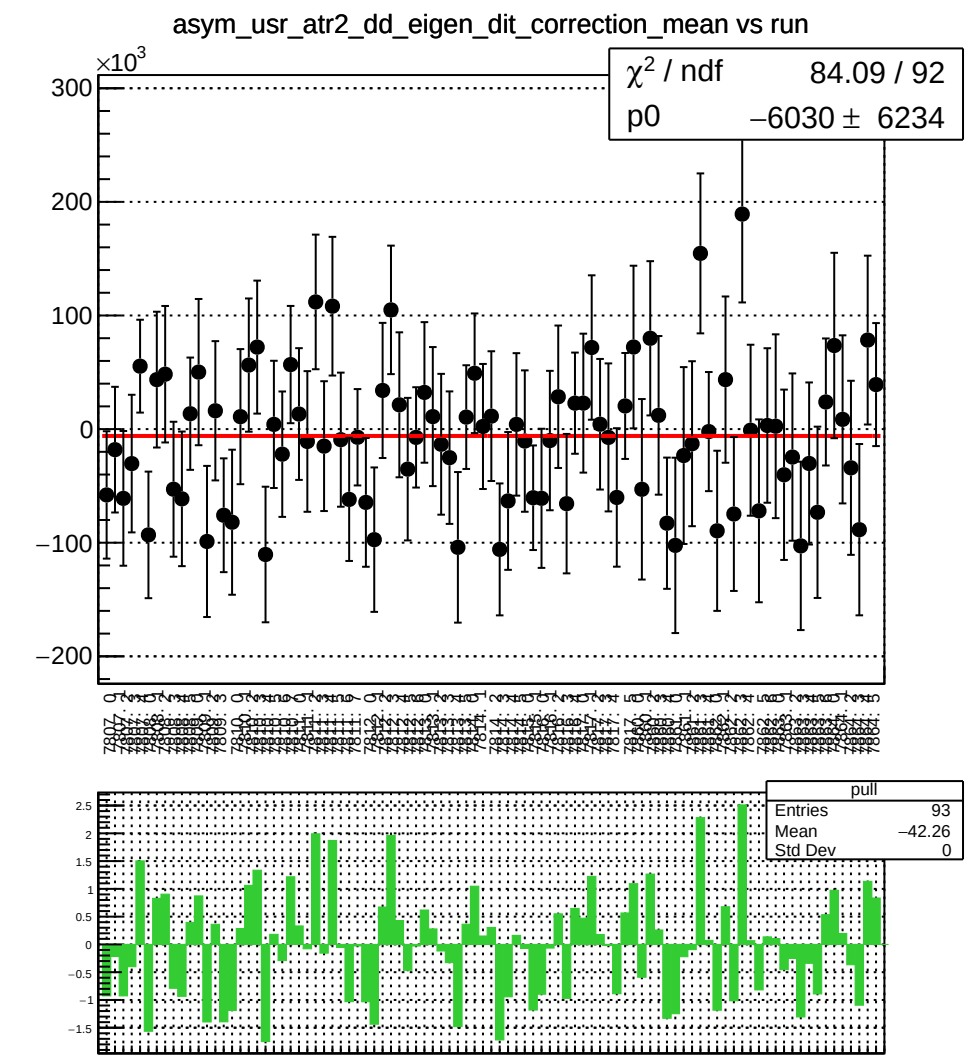

pull1D
Entries 93
Mean −0.01126
Std Dev 0.9508
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

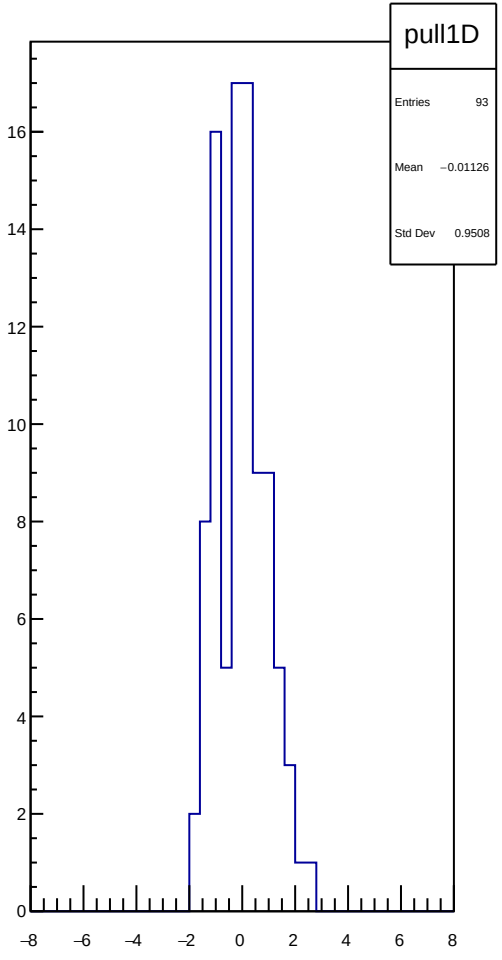
asym_usr_atr2_dd_dit_correction_rms vs run

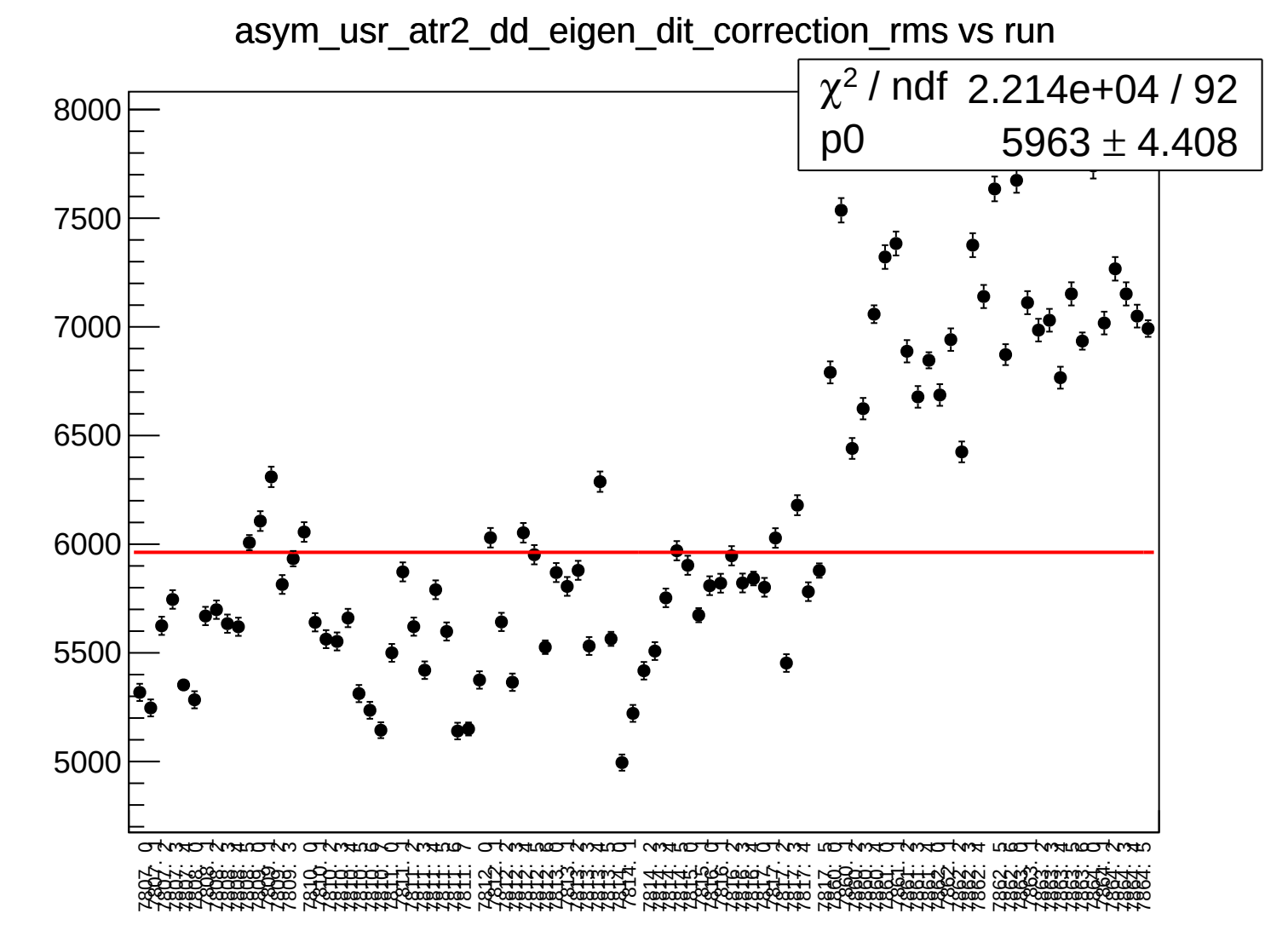


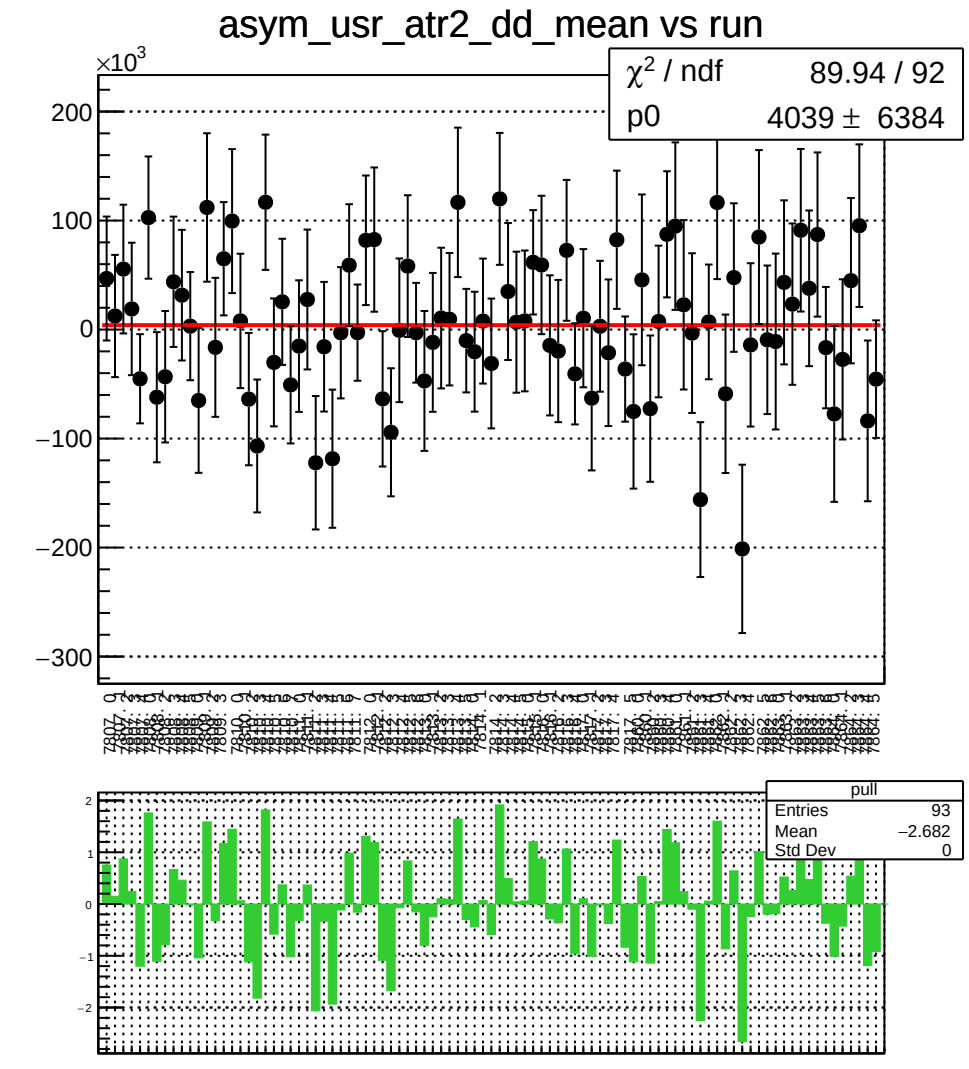

eigen_dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 105.3 / 92
p0 −1850 ± 1411
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 3953
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.000443
Std Dev 1.064
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

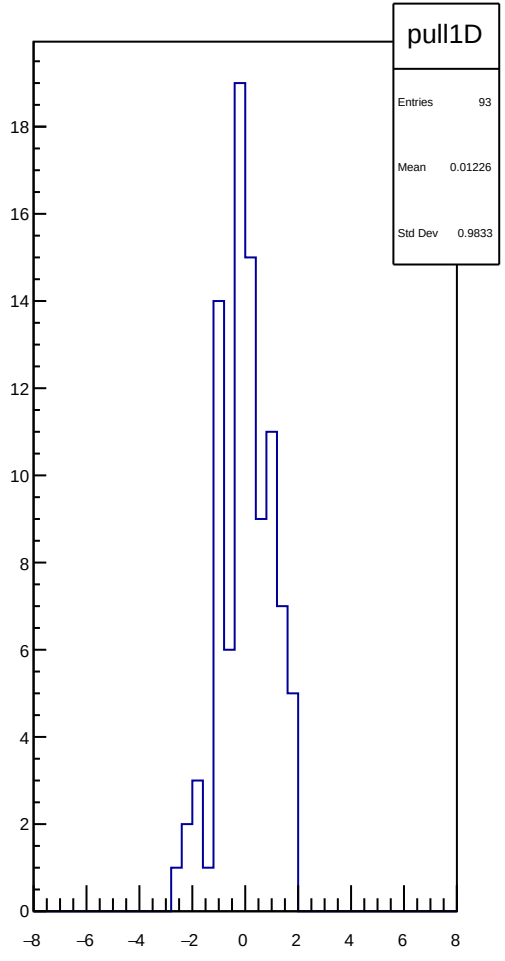

eigen_dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 137.4 / 92
p0 1357 ± 0.9975
1420
1400
1380
1360
1340
1320
1300

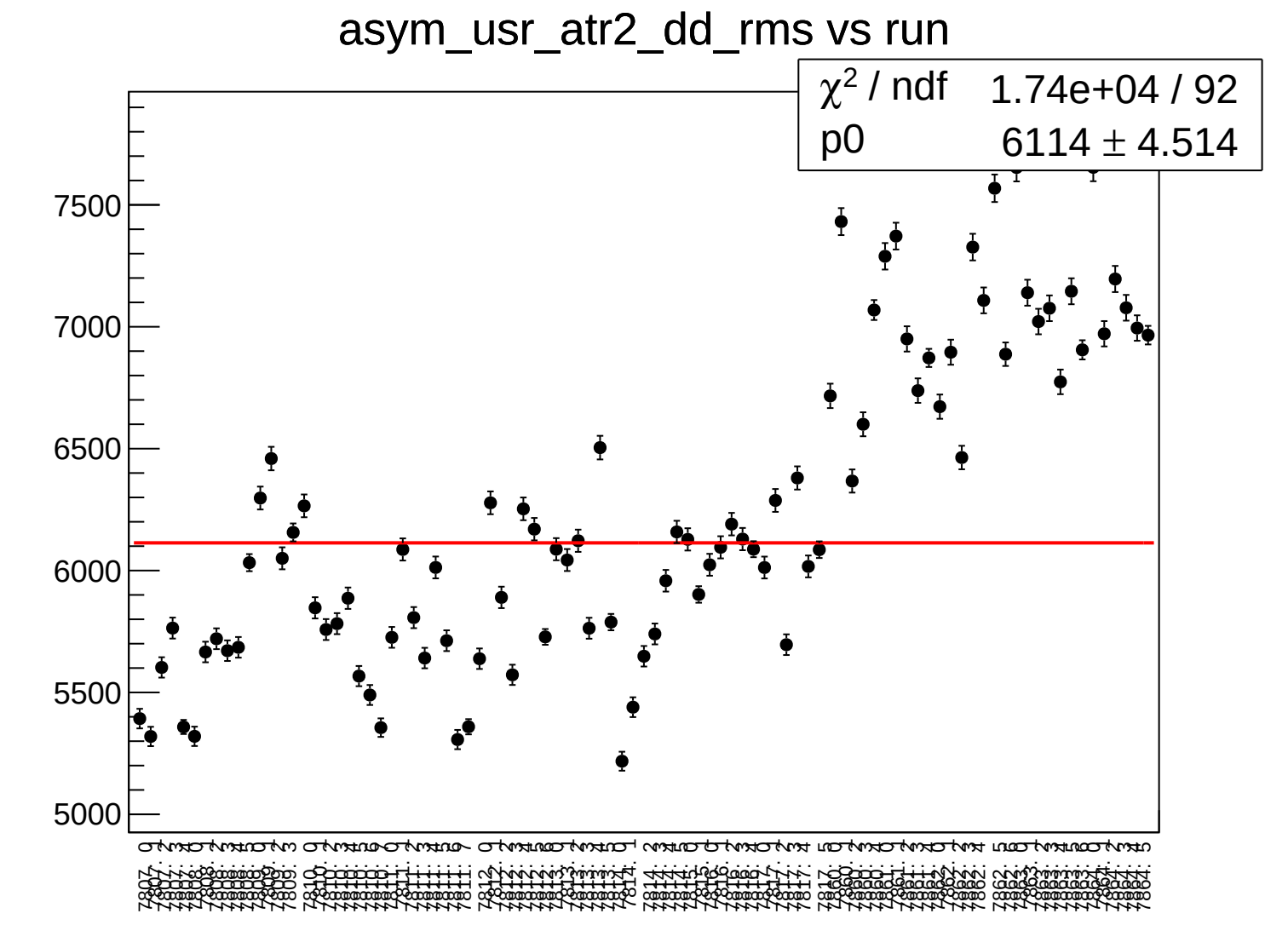

asym_usr_atr2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 84.09 / 92
p0 −6030 ± 6234
pull
Entries 93
Mean −42.26
Std Dev 0

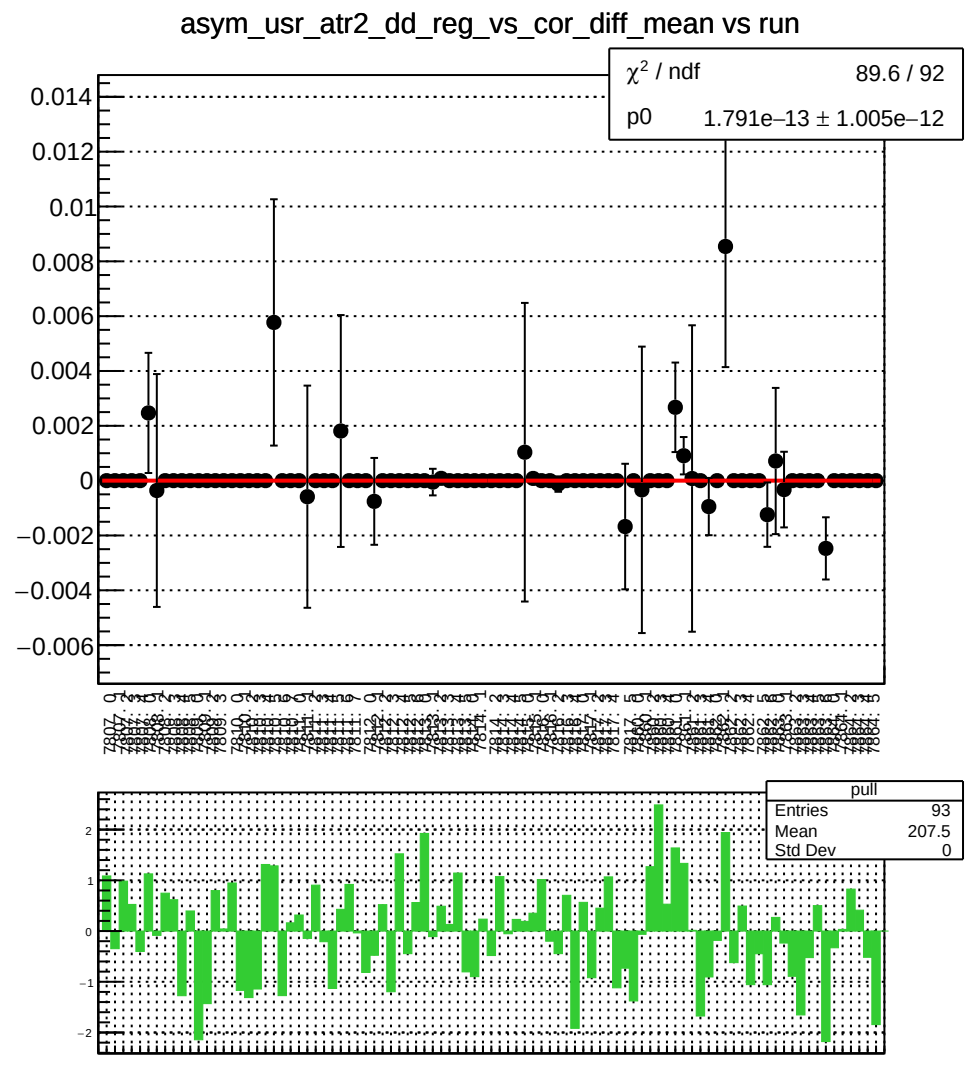

pull1D
Entries 93
Mean −0.01126
Std Dev 0.9508

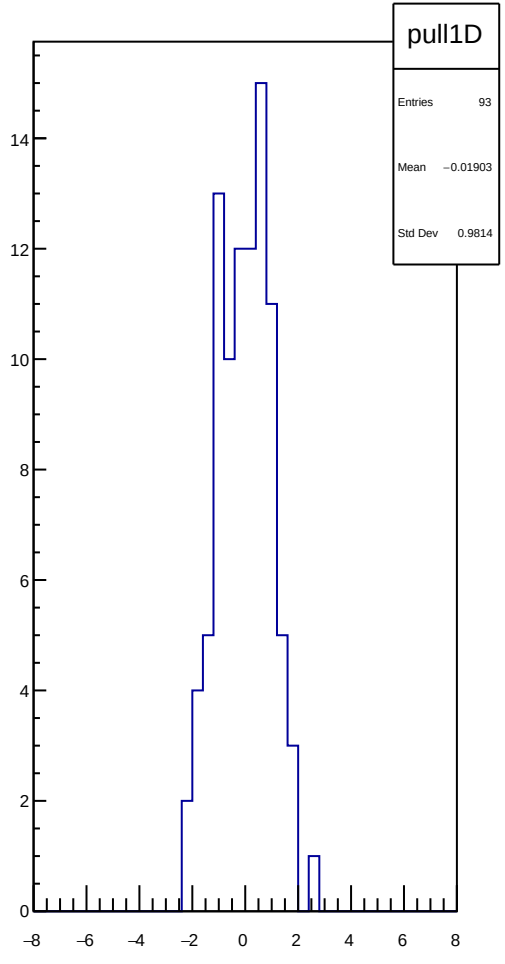

asym_usr_atr2_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.214e+04 / 92
p0 5963 ± 4.408
8000
7500
7000
6500
6000
5500
5000

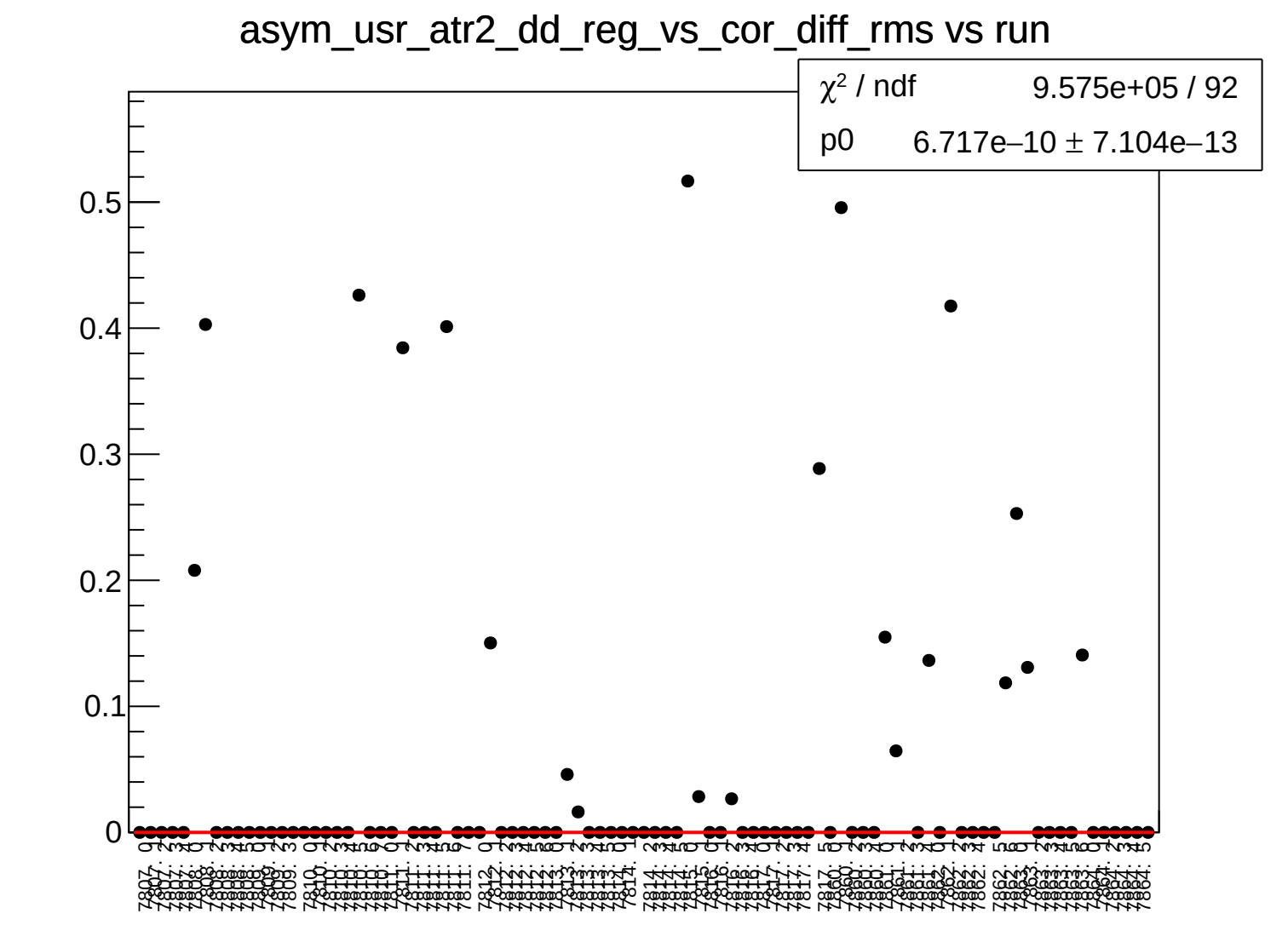

asym_usr_atr2_dd_mean vs run
×10^3
χ² / ndf 89.94 / 92
p0 4039 ± 6384
200
100
0
−100
−200
−300
pull
Entries 93
Mean −2.682
Std Dev 0
2
1
0
−1
−2

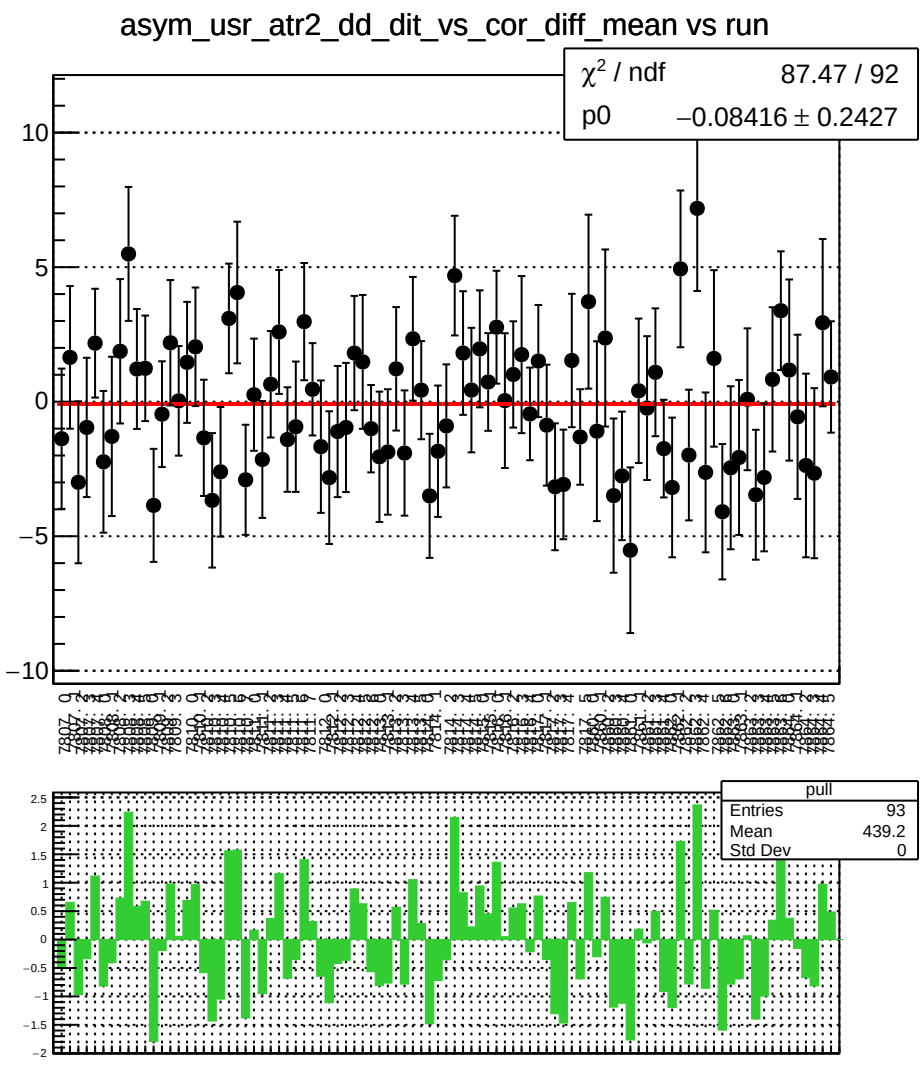

pull1D
Entries 93
Mean 0.01226
Std Dev 0.9833
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

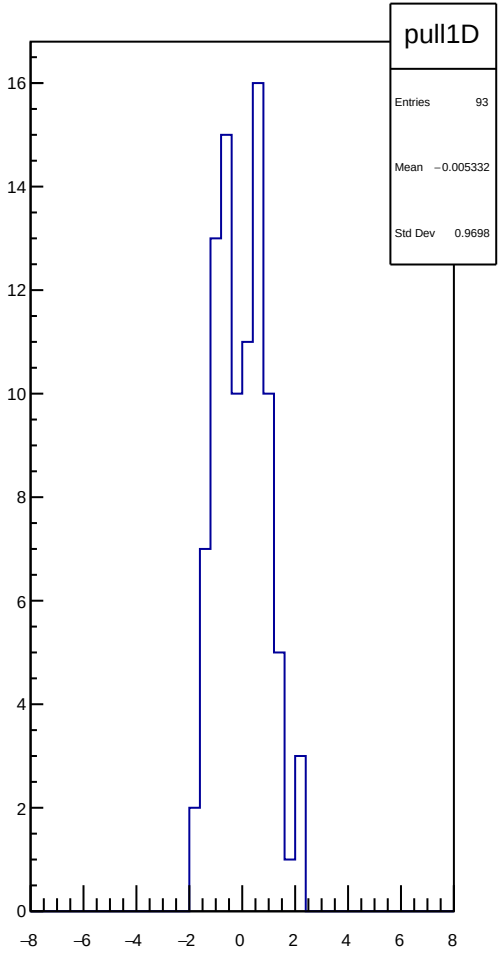

asym_usr_atr2_dd_rms vs run
χ² / ndf 1.74e+04 / 92
p0 6114 ± 4.514
7500
7000
6500
6000
5500
5000

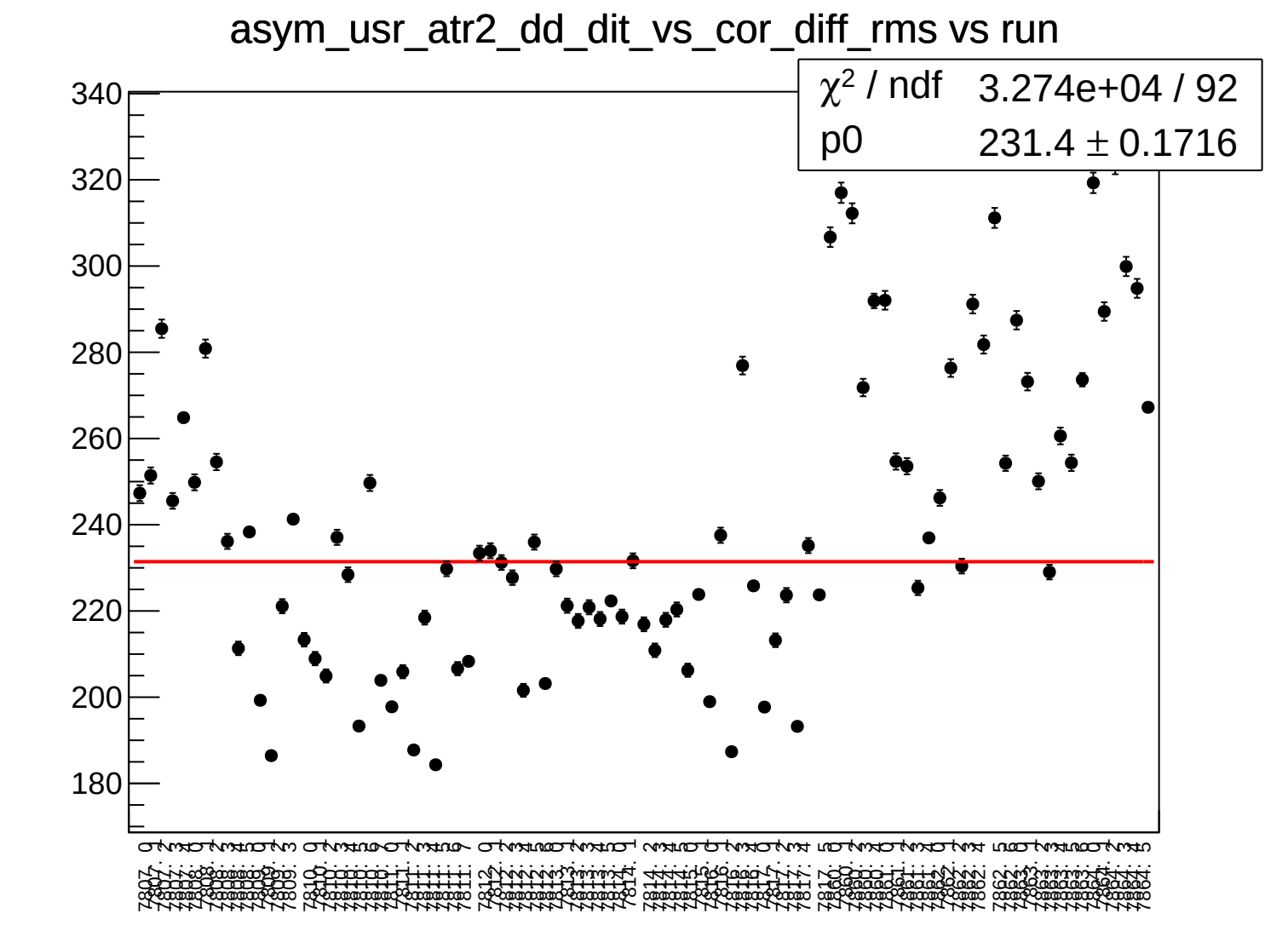

asym_usr_atr2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 89.6 / 92
p0 1.791e−13 ± 1.005e−12
pull
Entries 93
Mean 207.5
Std Dev 0

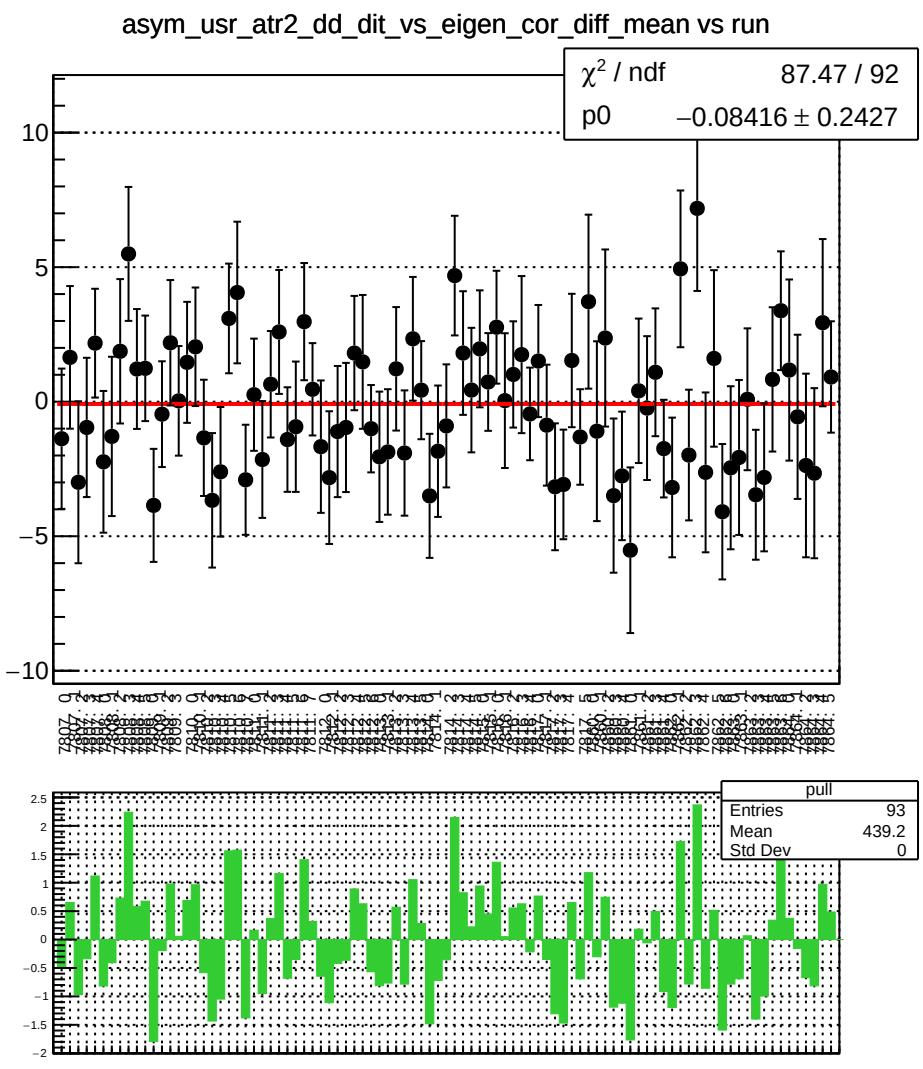

pull1D
Entries 93
Mean −0.01903
Std Dev 0.9814

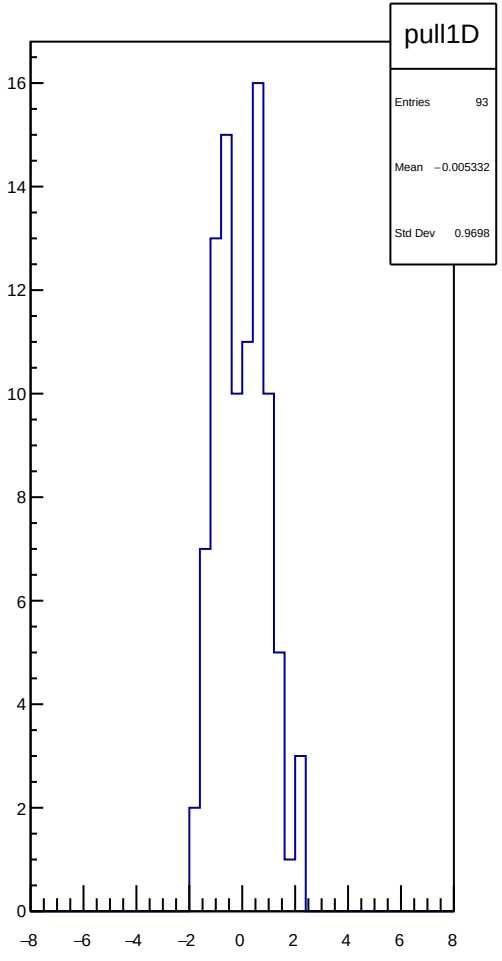

asym_usr_atr2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.575e+05 / 92
p0 6.717e−10 ± 7.104e−13
0.5
0.4
0.3
0.2
0.1
0

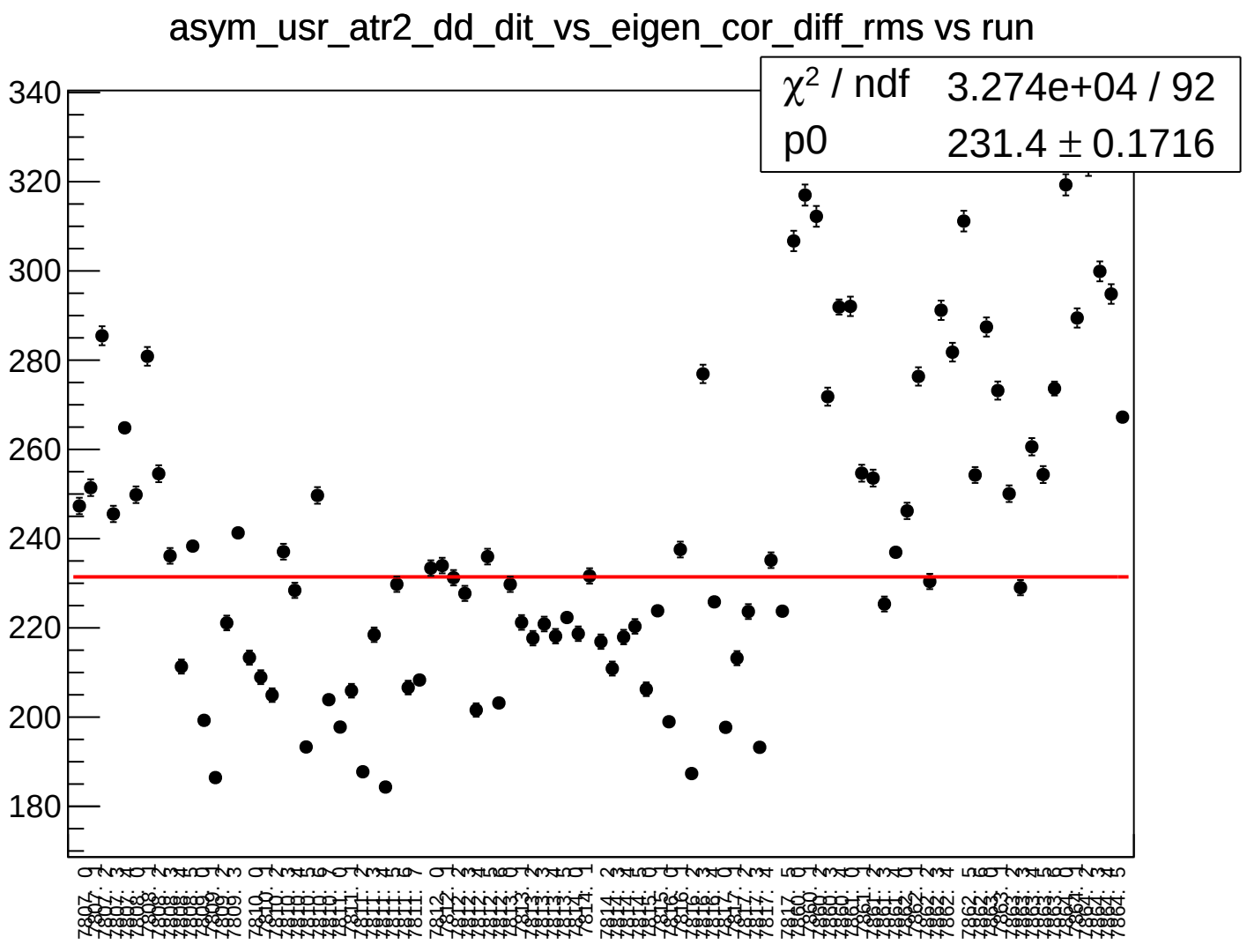

asym_usr_atr2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 87.47 / 92
p0 −0.08416 ± 0.2427
pull
Entries 93
Mean 439.2
Std Dev 0

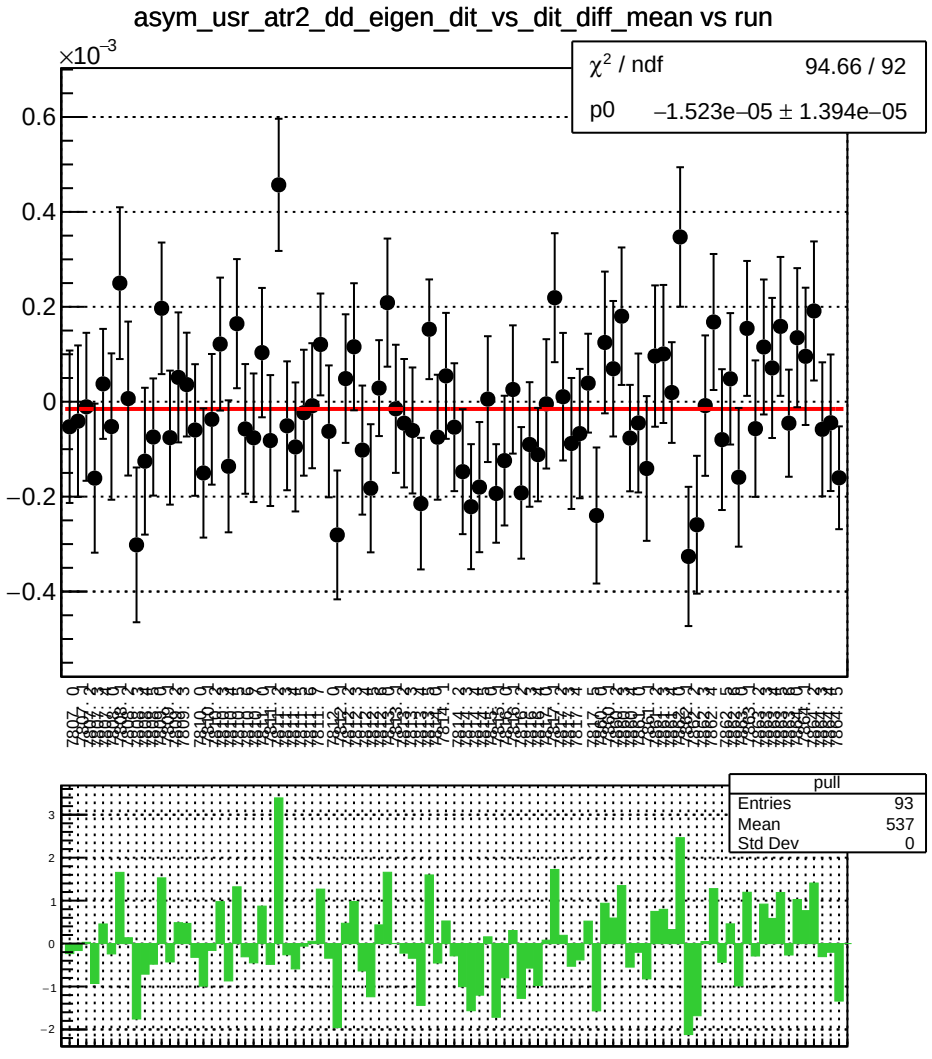

pull1D
Entries 93
Mean −0.005332
Std Dev 0.9698

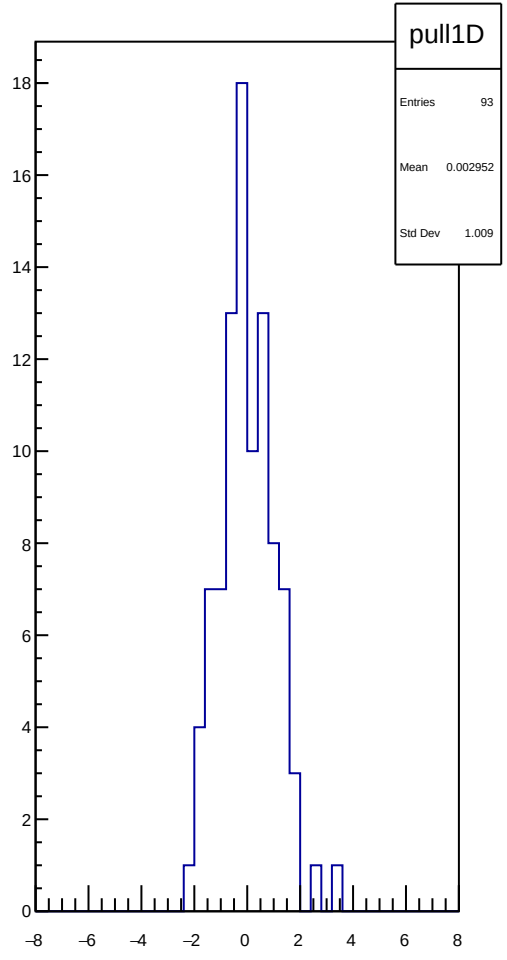

asym_usr_atr2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.274e+04 / 92
p0 231.4 ± 0.1716
340
320
300
280
260
240
220
200
180

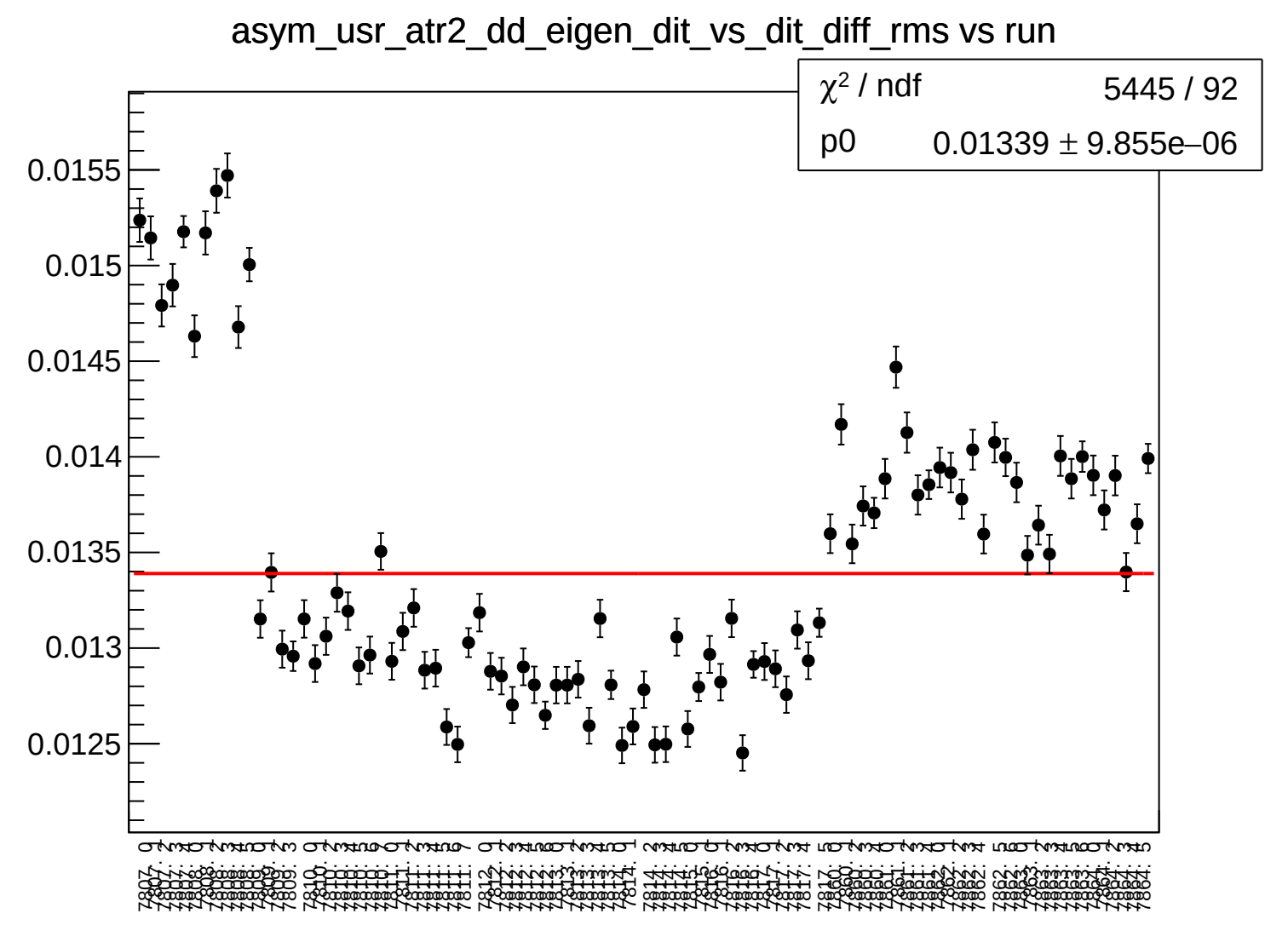

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.47 / 92
p0 −0.08416 ± 0.2427
pull
Entries 93
Mean 439.2
Std Dev 0

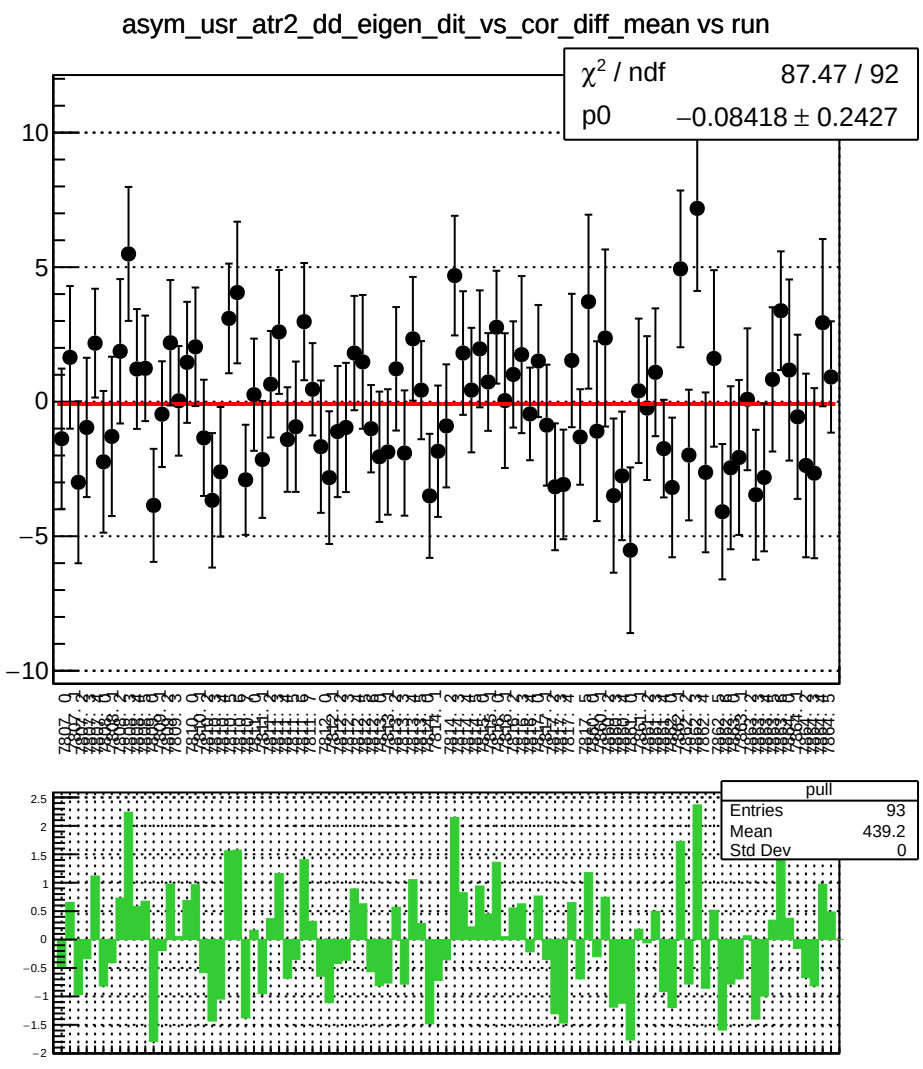

pull1D
Entries 93
Mean −0.005332
Std Dev 0.9698

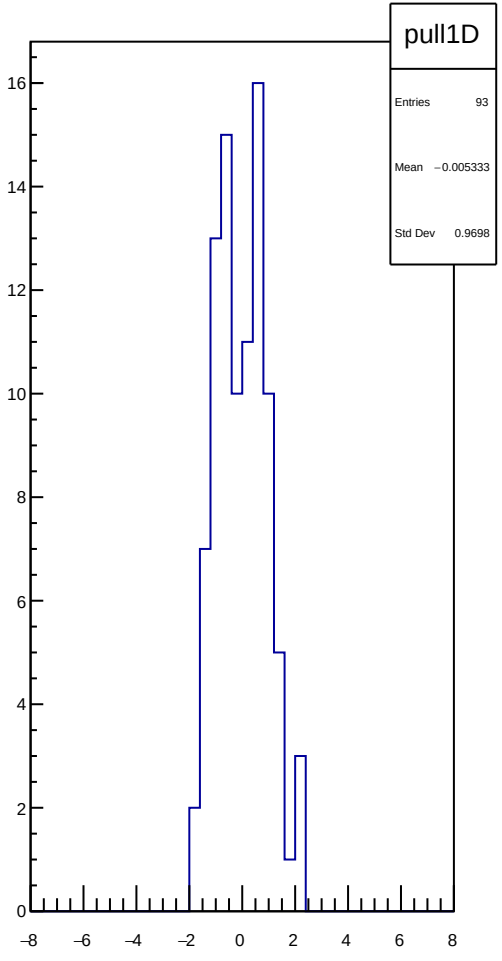

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.274e+04 / 92
p0 231.4 ± 0.1716
340
320
300
280
260
240
220
200
180

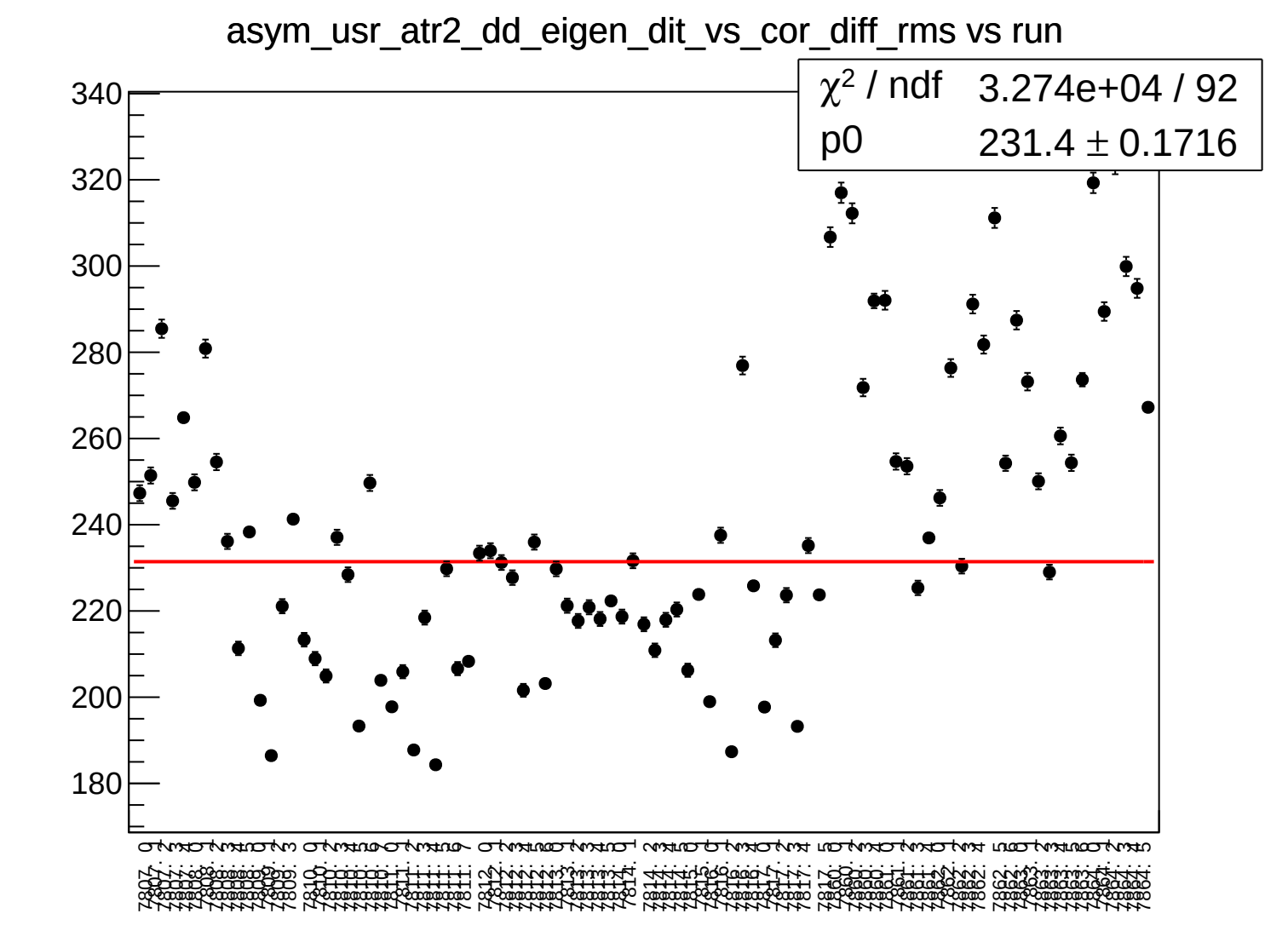

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 94.66 / 92
p0 −1.523e−05 ± 1.394e−05
0.6
0.4
0.2
0
−0.2
−0.4
pull
Entries 93
Mean 537
Std Dev 0
3
2
1
0
−1
−2

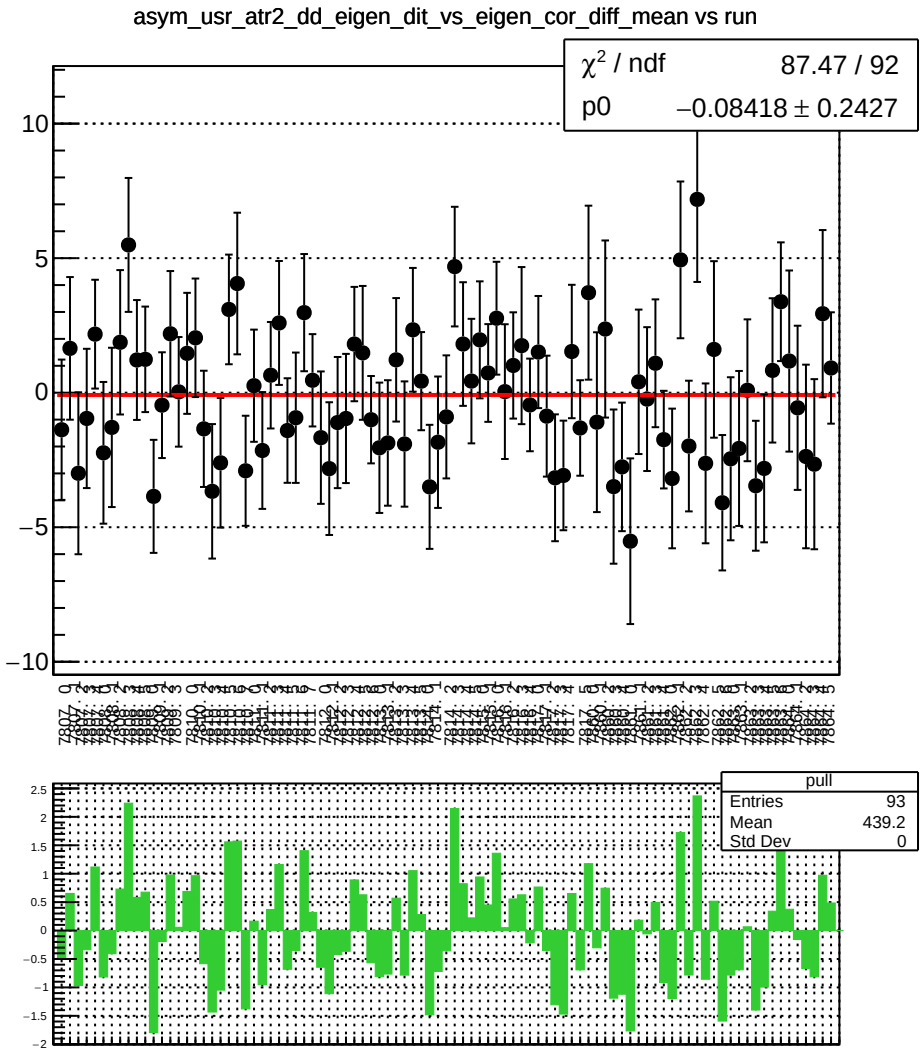

pull1D
Entries 93
Mean 0.002952
Std Dev 1.009
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

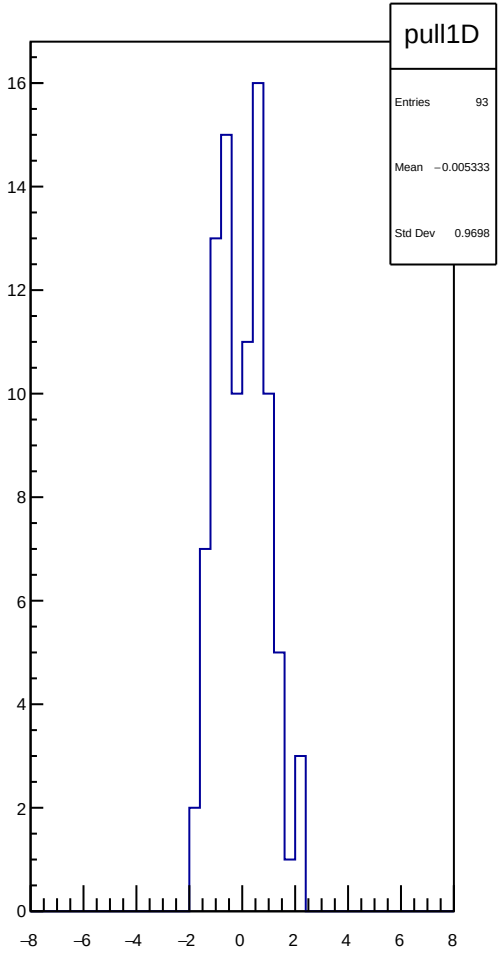

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5445 / 92
p0 0.01339 ± 9.855e−06
0.0155
0.015
0.0145
0.014
0.0135
0.013
0.0125

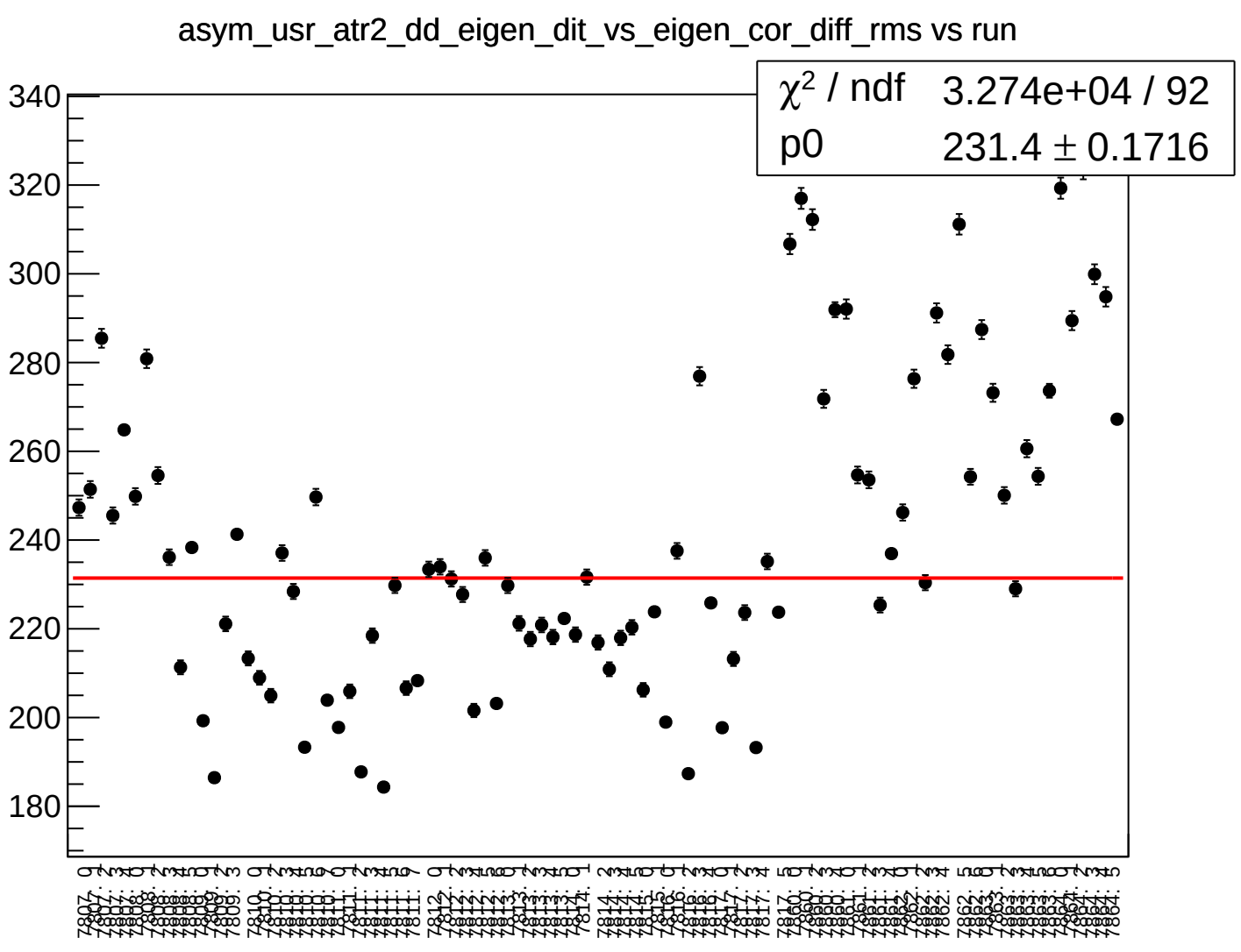

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.47 / 92
p0 −0.08418 ± 0.2427
pull
Entries 93
Mean 439.2
Std Dev 0

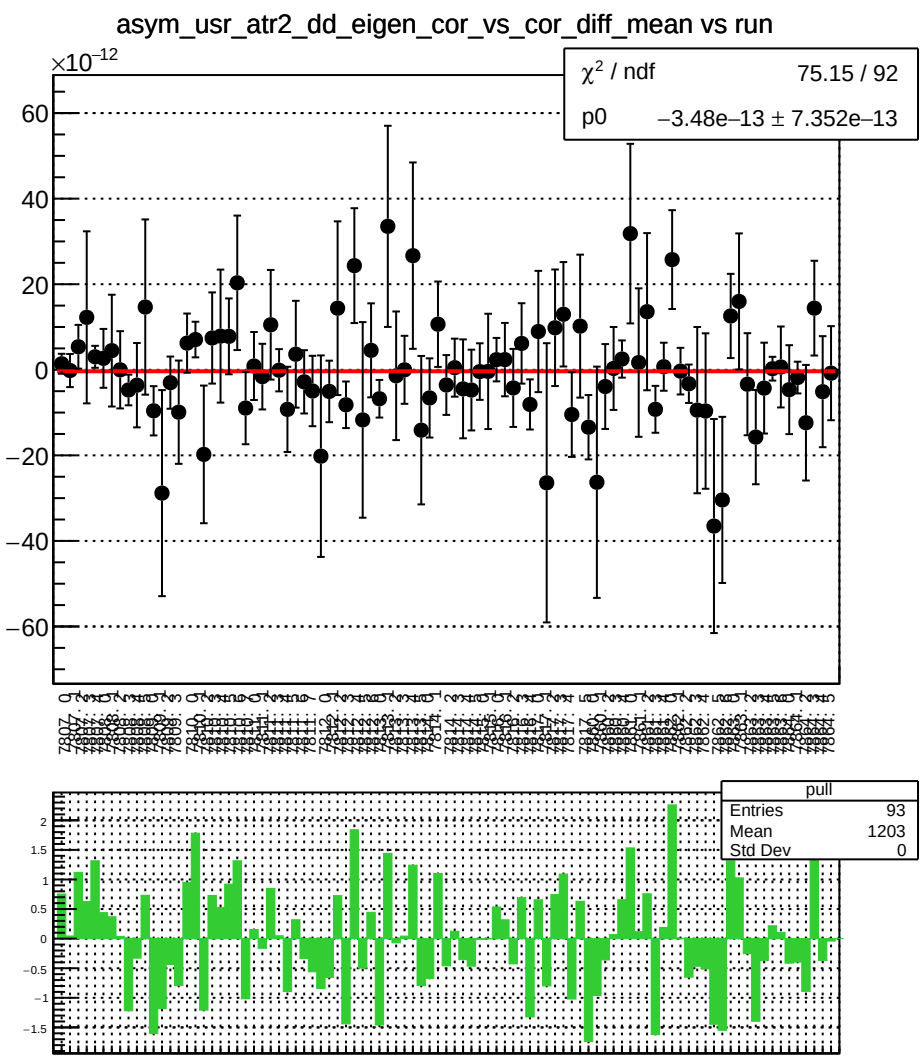

pull1D
Entries 93
Mean −0.005333
Std Dev 0.9698

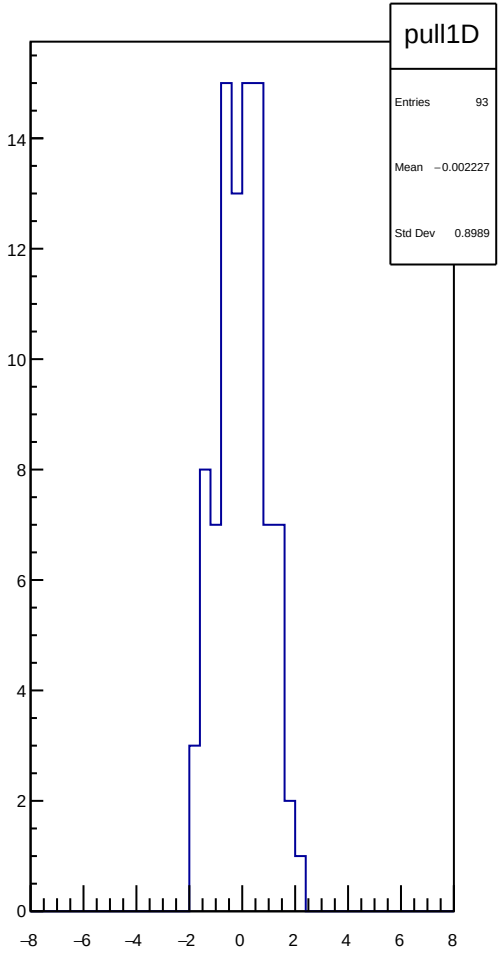

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.274e+04 / 92
p0 231.4 ± 0.1716
340
320
300
280
260
240
220
200
180

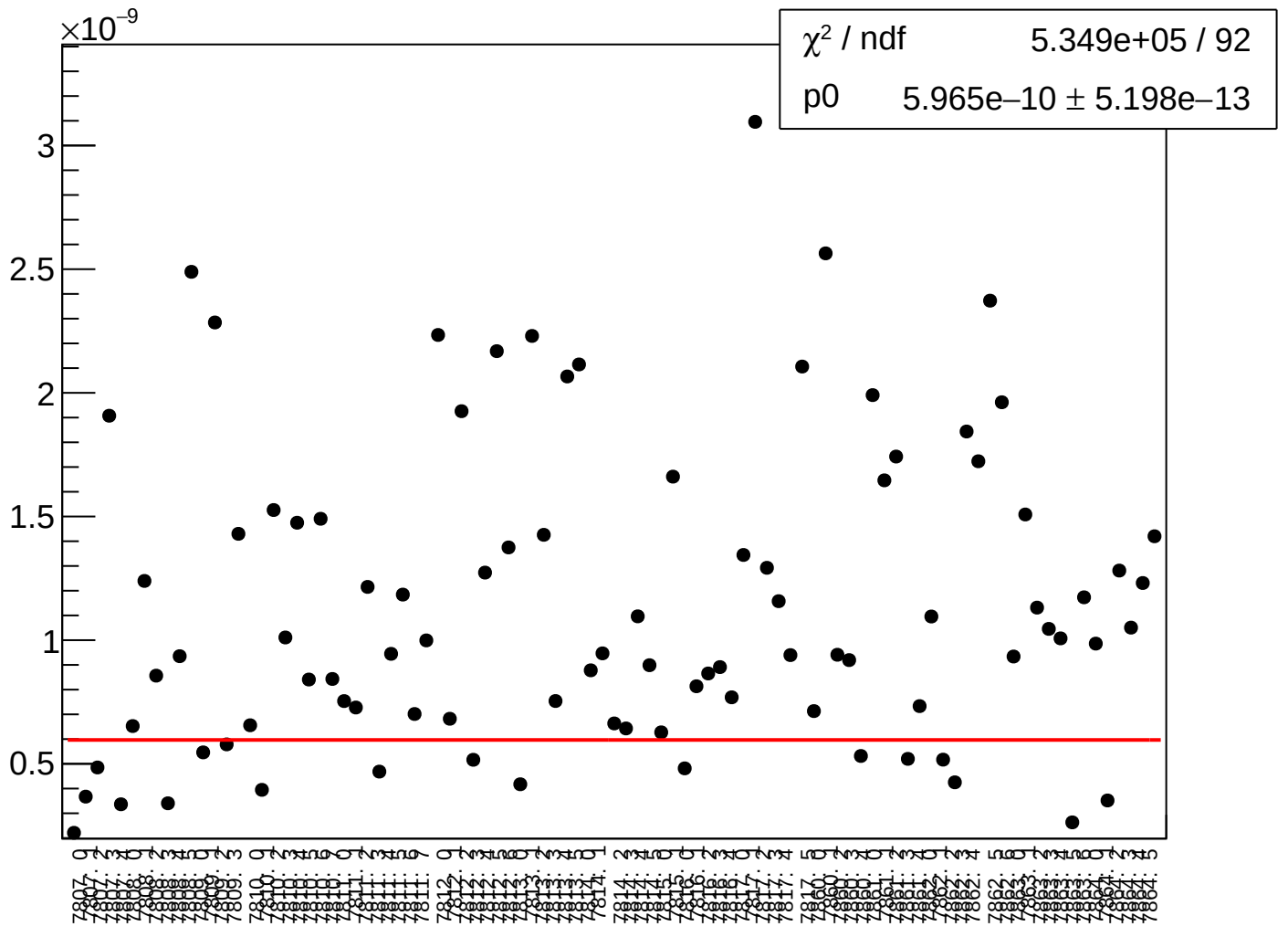

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.47 / 92
p0 −0.08418 ± 0.2427
pull
Entries 93
Mean 439.2
Std Dev 0

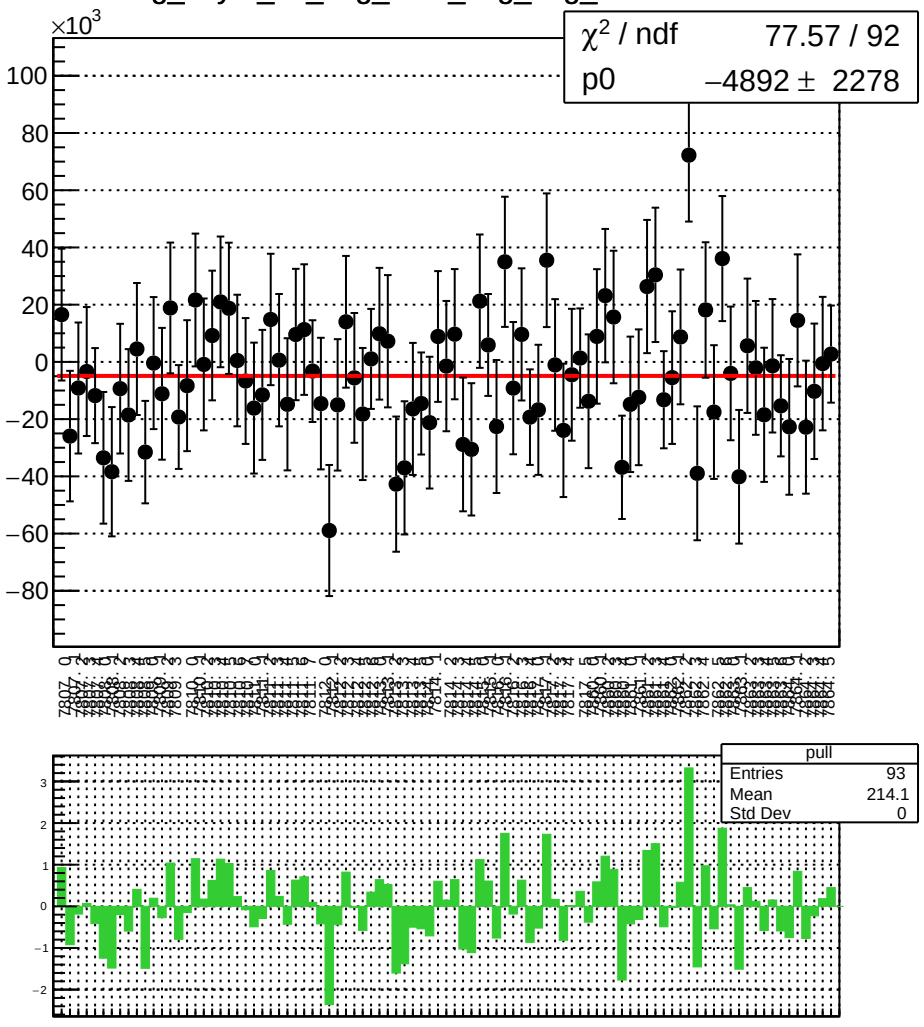

pull1D
Entries 93
Mean −0.005333
Std Dev 0.9698

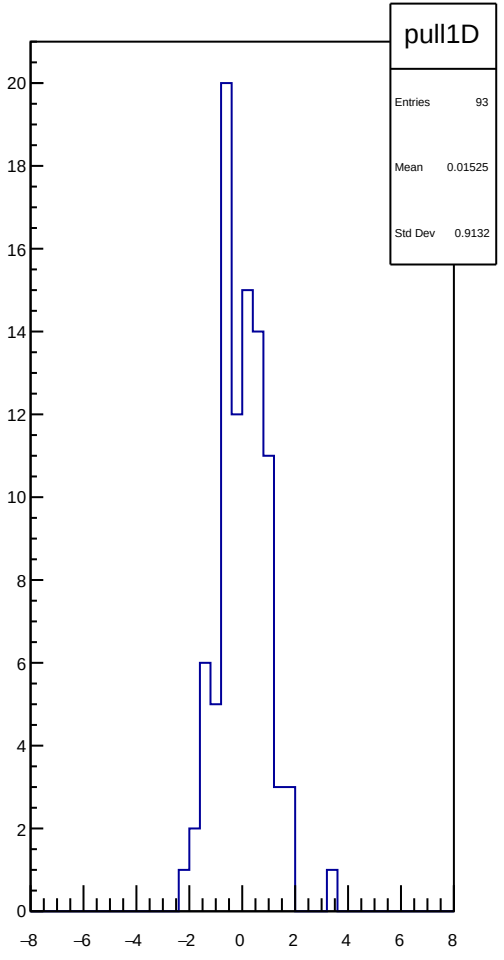

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.274e+04 / 92
p0 231.4 ± 0.1716
340
320
300
280
260
240
220
200
180

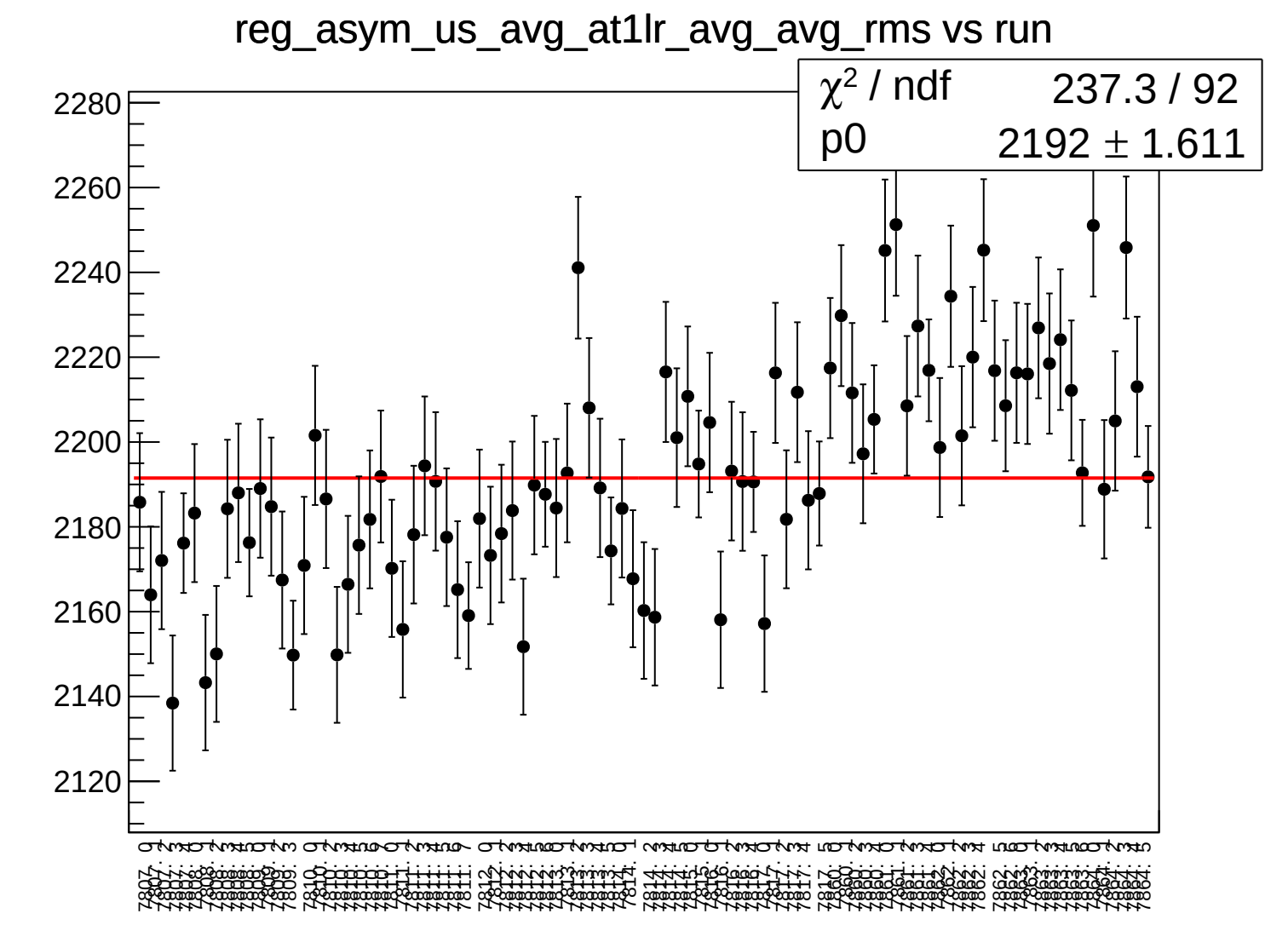

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.15 / 92
p0 −3.48e−13 ± 7.352e−13
pull
Entries 93
Mean 1203
Std Dev 0

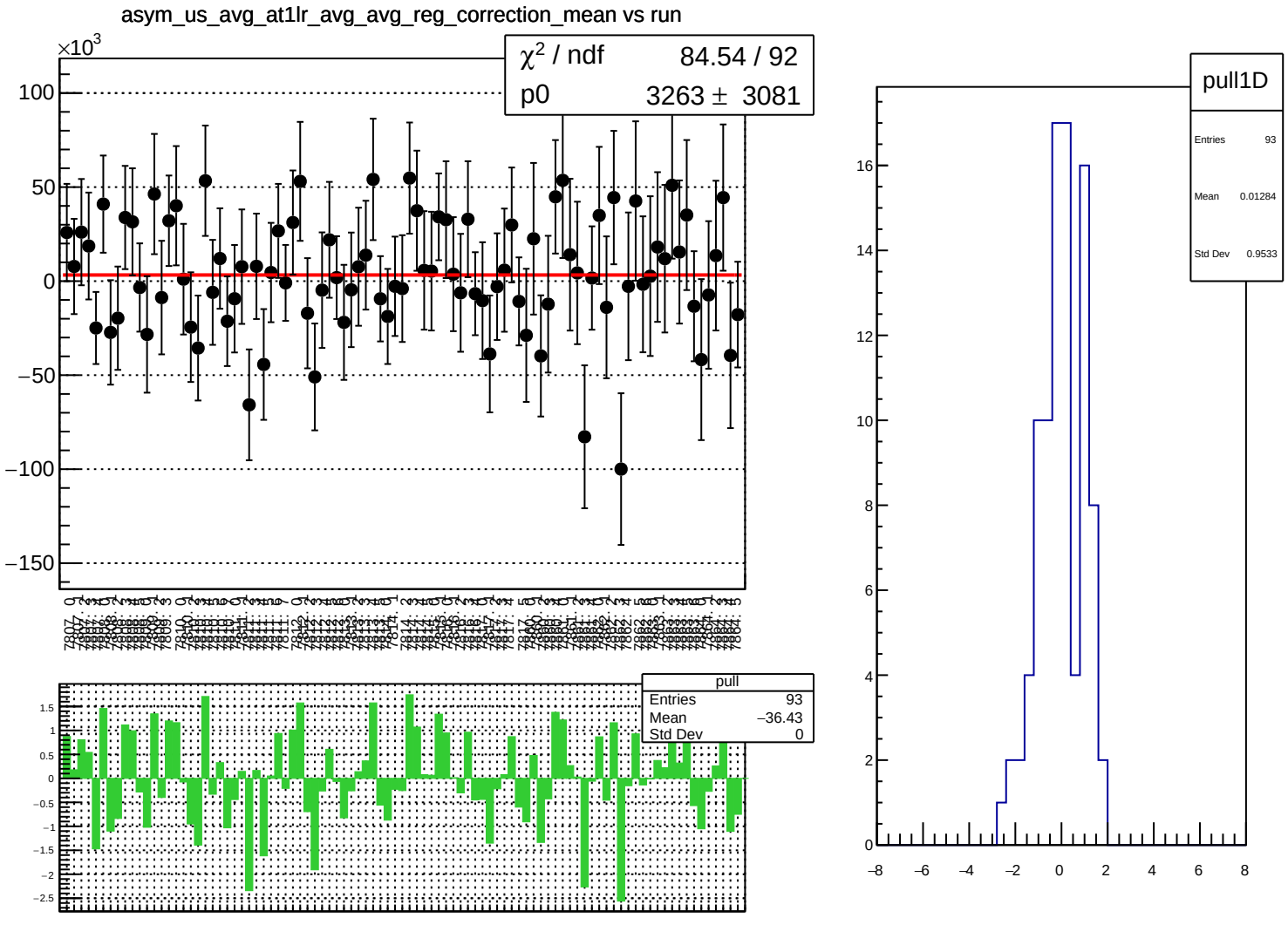

pull1D
Entries 93
Mean −0.002227
Std Dev 0.8989

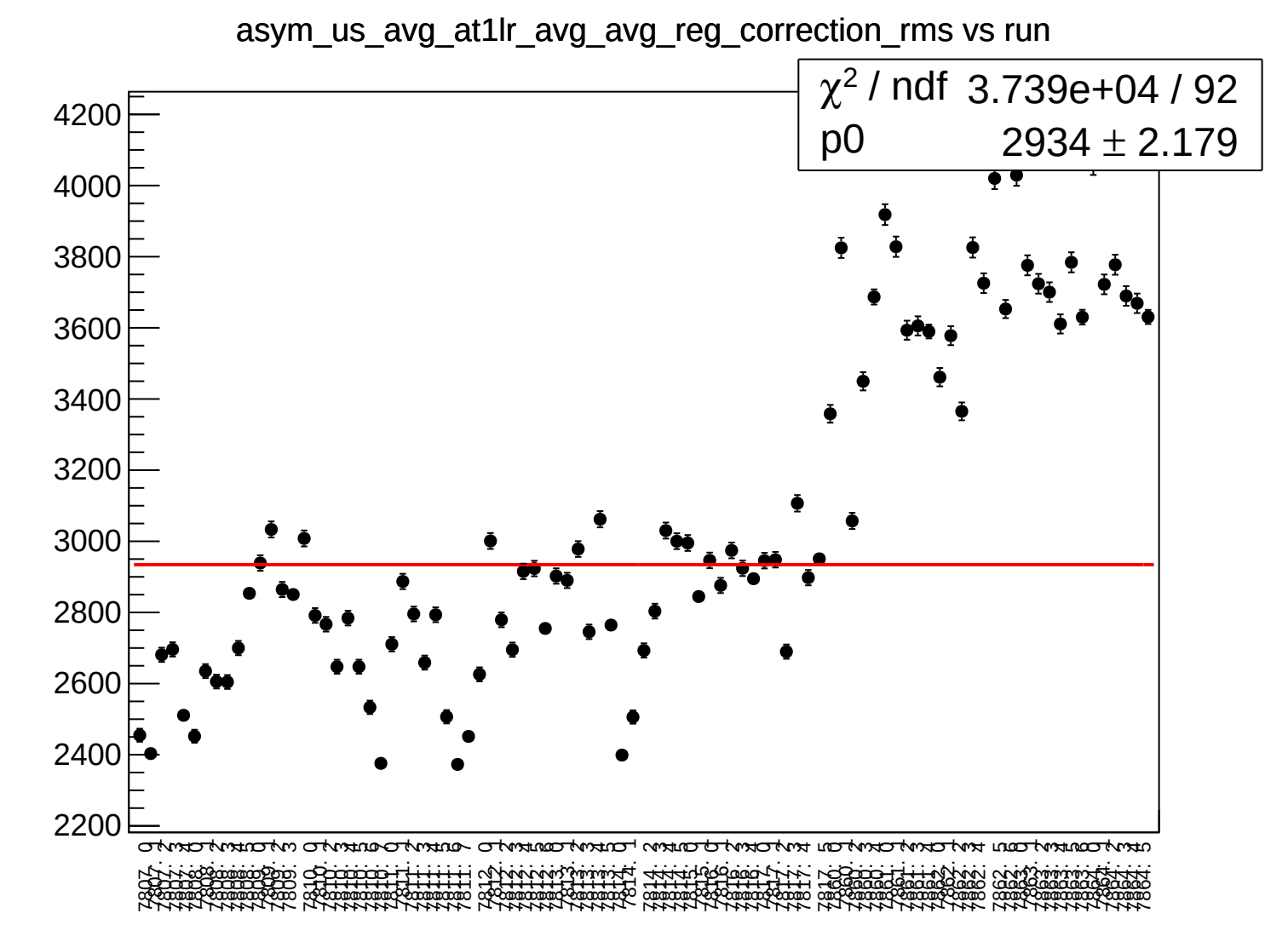

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.349e+05 / 92
p0 5.965e−10 ± 5.198e−13
3
2.5
2
1.5
1
0.5

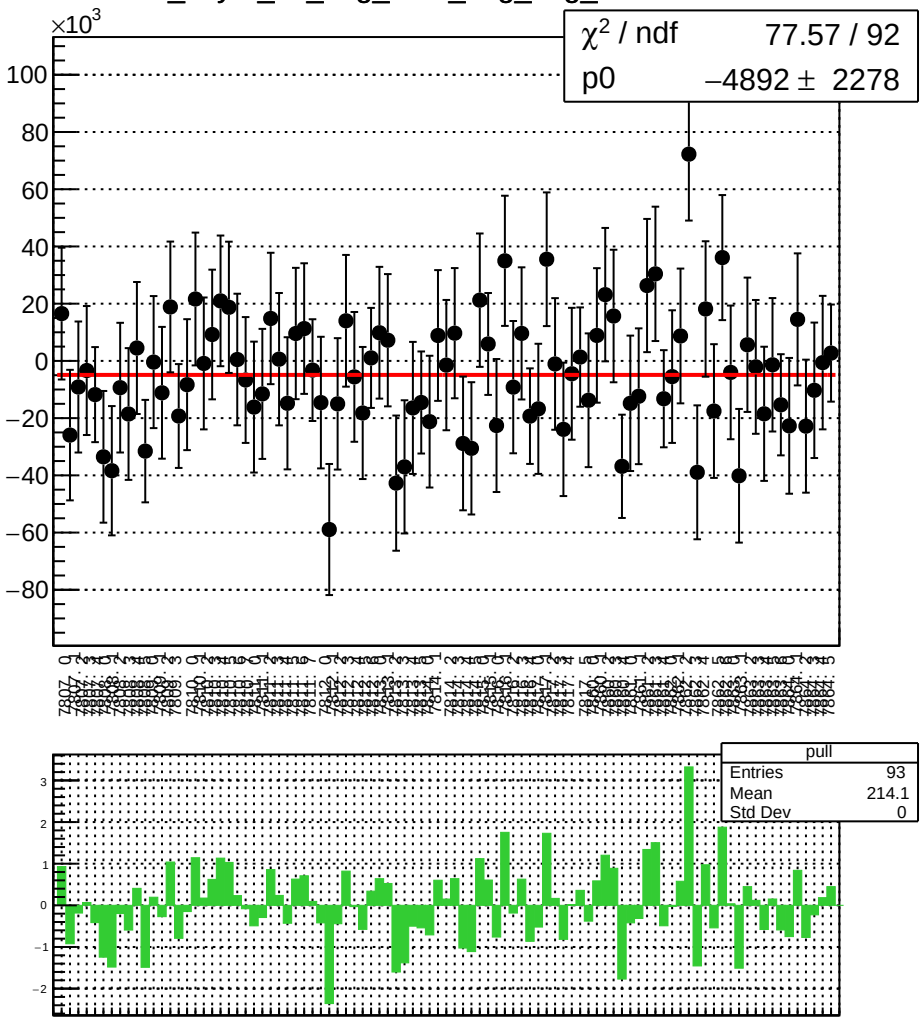

reg_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 77.57 / 92
p0 −4892 ± 2278
pull
Entries 93
Mean 214.1
Std Dev 0

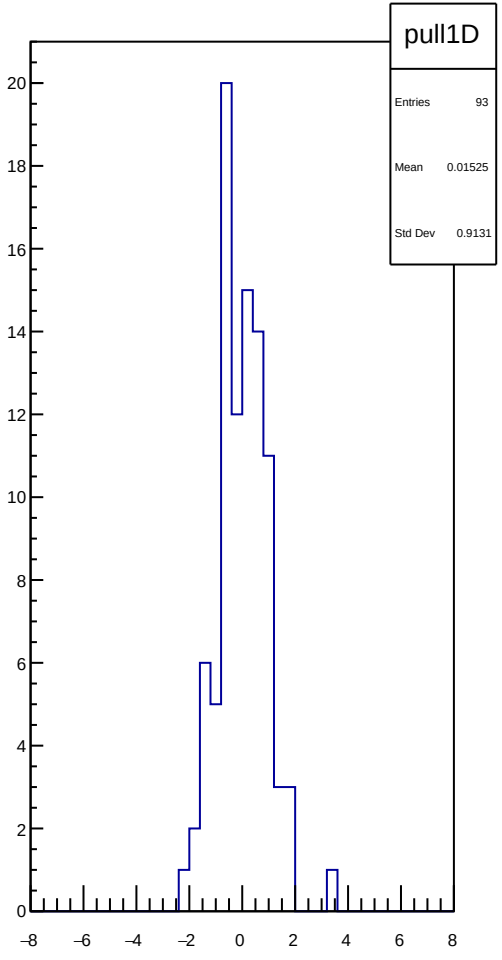

pull1D
Entries 93
Mean 0.01525
Std Dev 0.9132

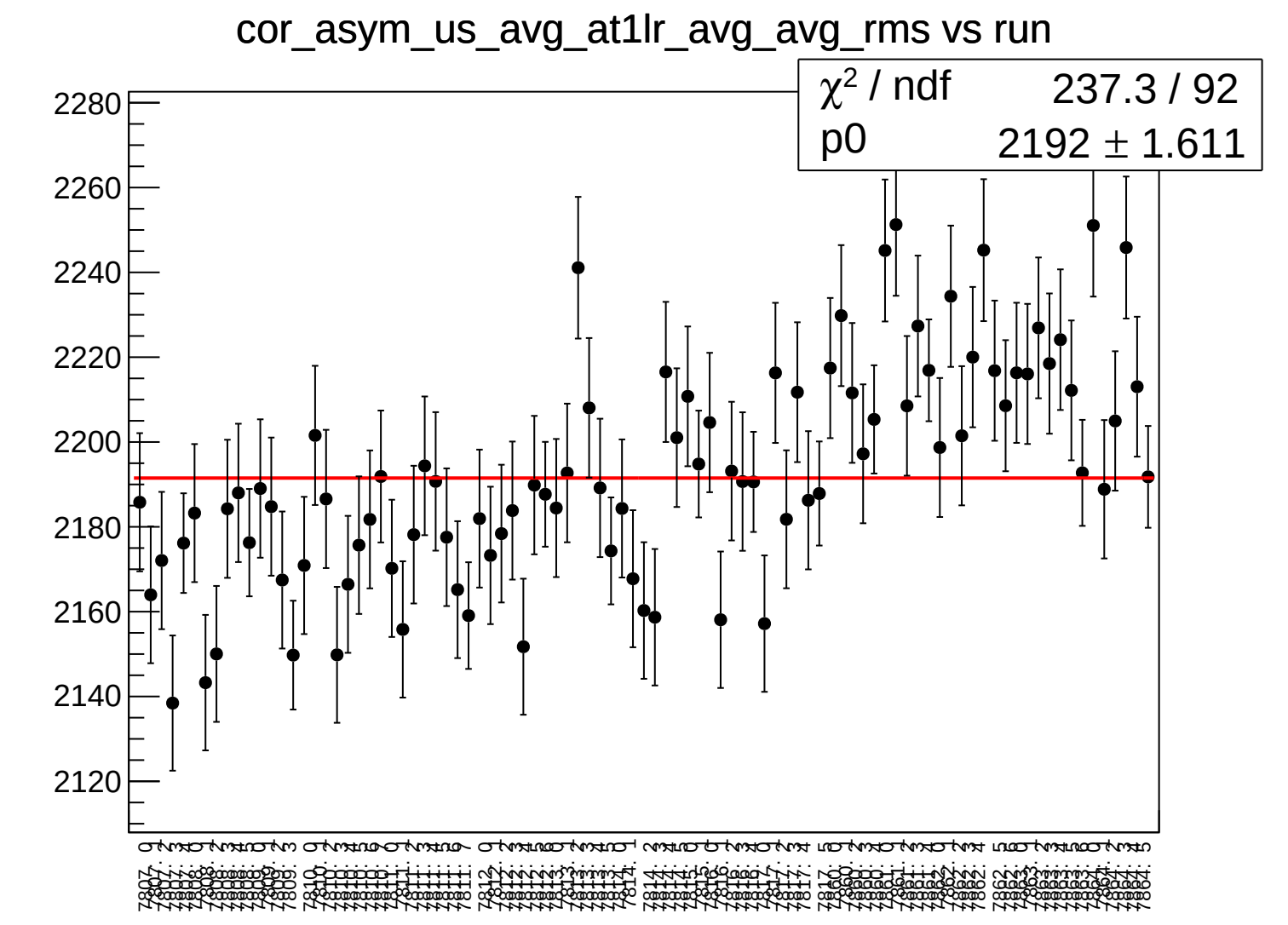

reg_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 237.3 / 92
p0 2192 ± 1.611
2280
2260
2240
2220
2200
2180
2160
2140
2120

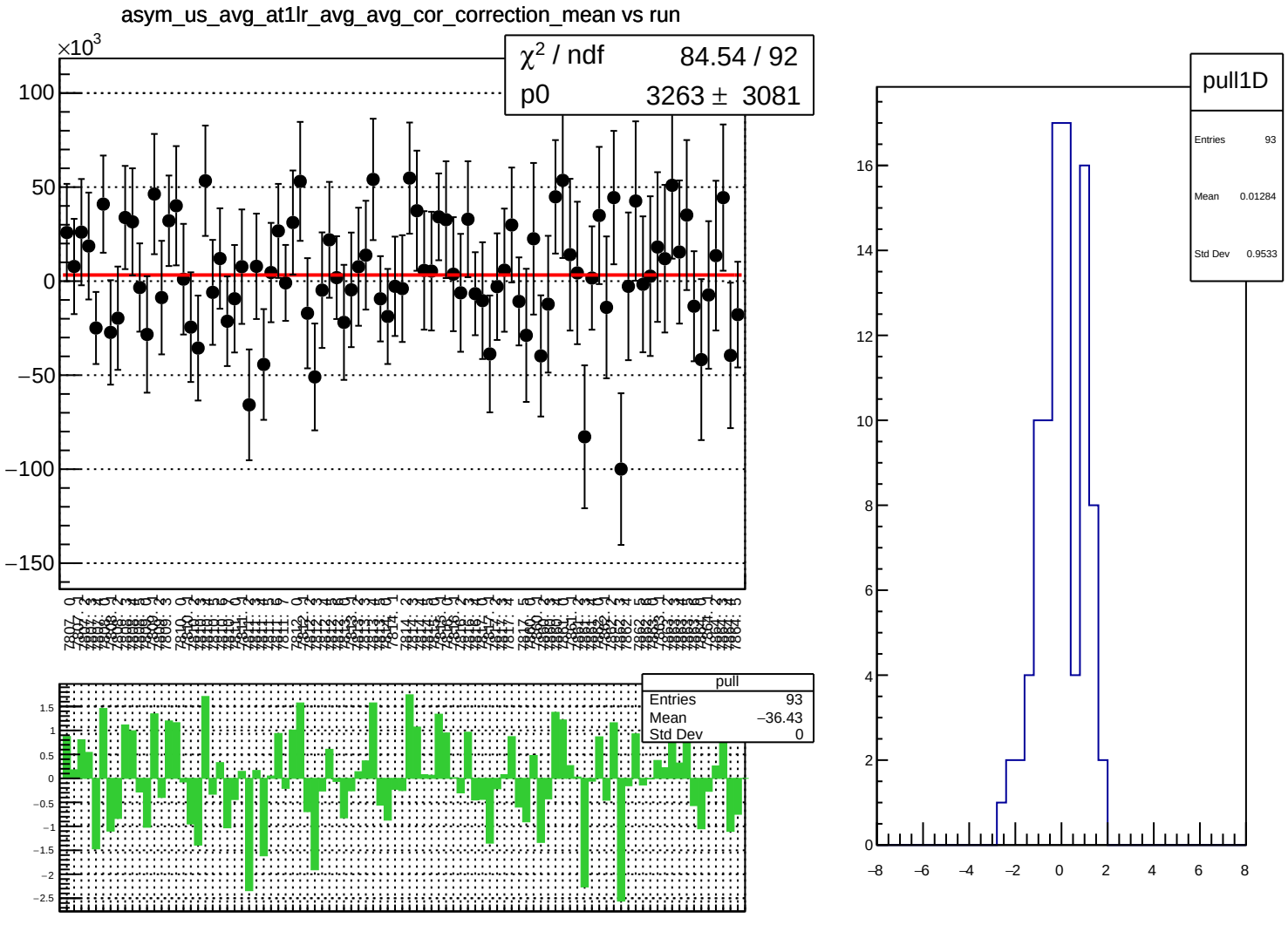

asym_us_avg_at1lr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 84.54 / 92
p0 3263 ± 3081
pull
Entries 93
Mean −36.43
Std Dev 0
pull1D
Entries 93
Mean 0.01284
Std Dev 0.9533

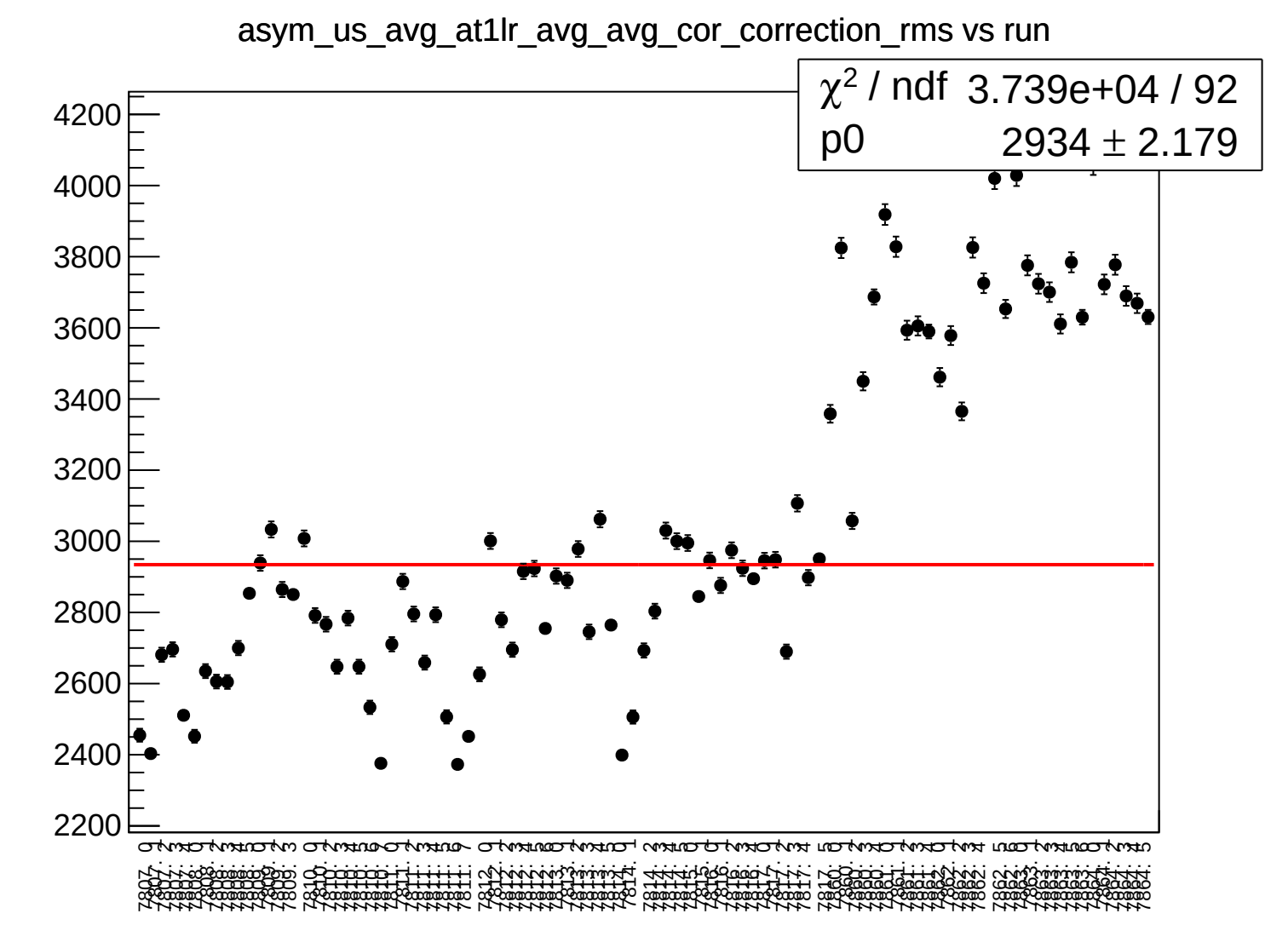

asym_us_avg_at1lr_avg_avg_reg_correction_rms vs run
χ² / ndf 3.739e+04 / 92
p0 2934 ± 2.179
4200
4000
3800
3600
3400
3200
3000
2800
2600
2400
2200

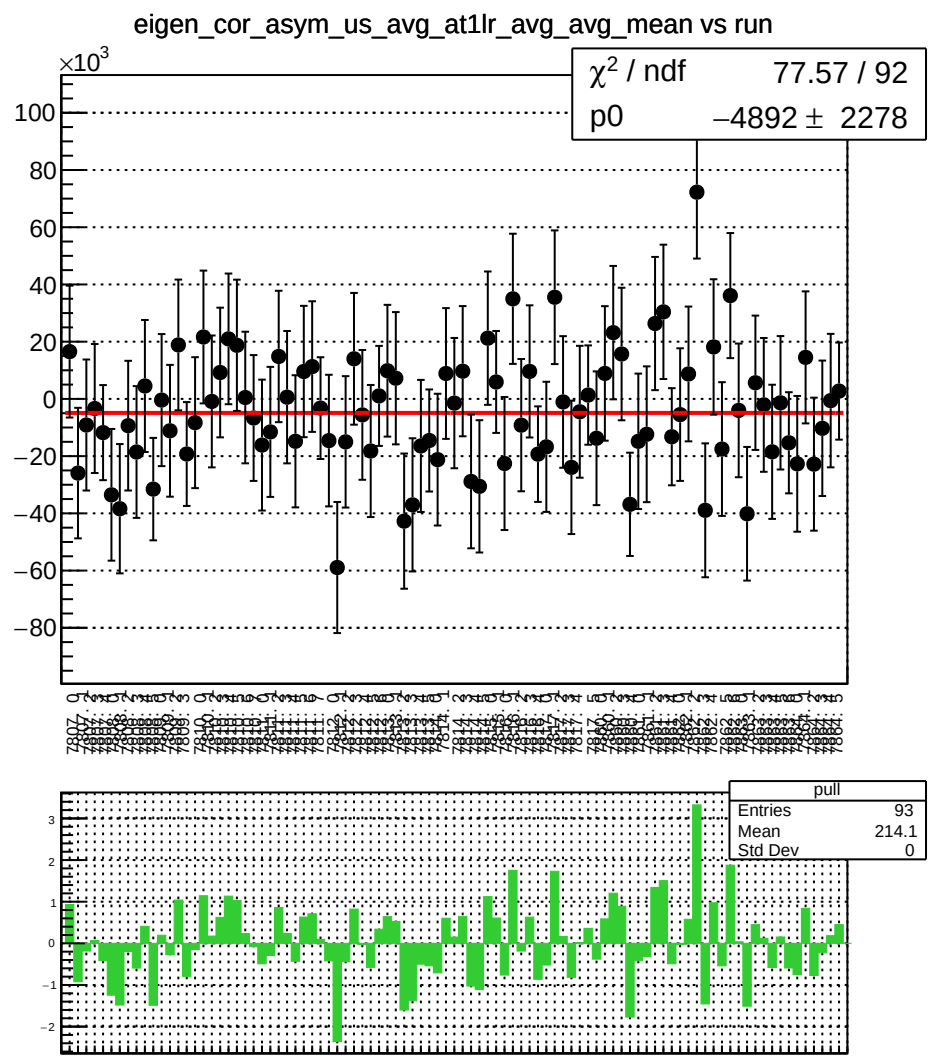

cor_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 77.57 / 92
p0 −4892 ± 2278
pull
Entries 93
Mean 214.1
Std Dev 0

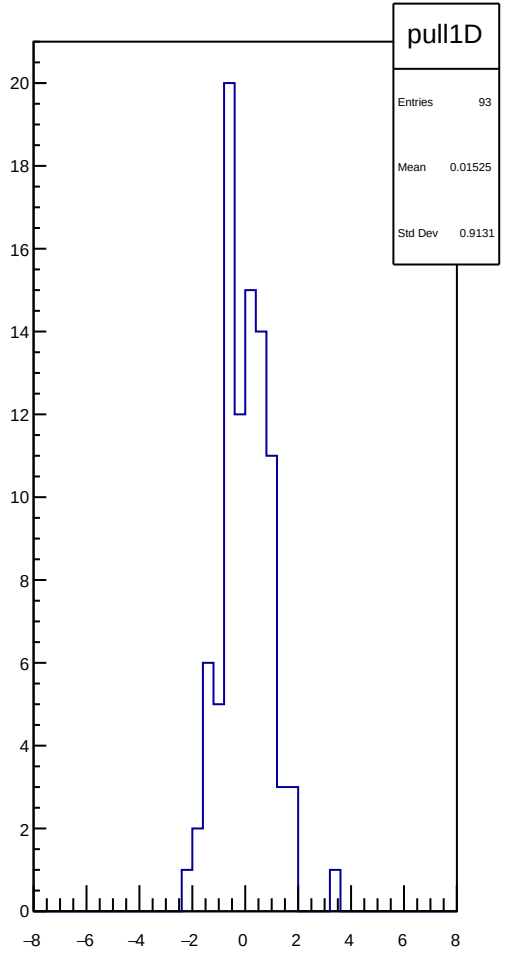

pull1D
Entries 93
Mean 0.01525
Std Dev 0.9131

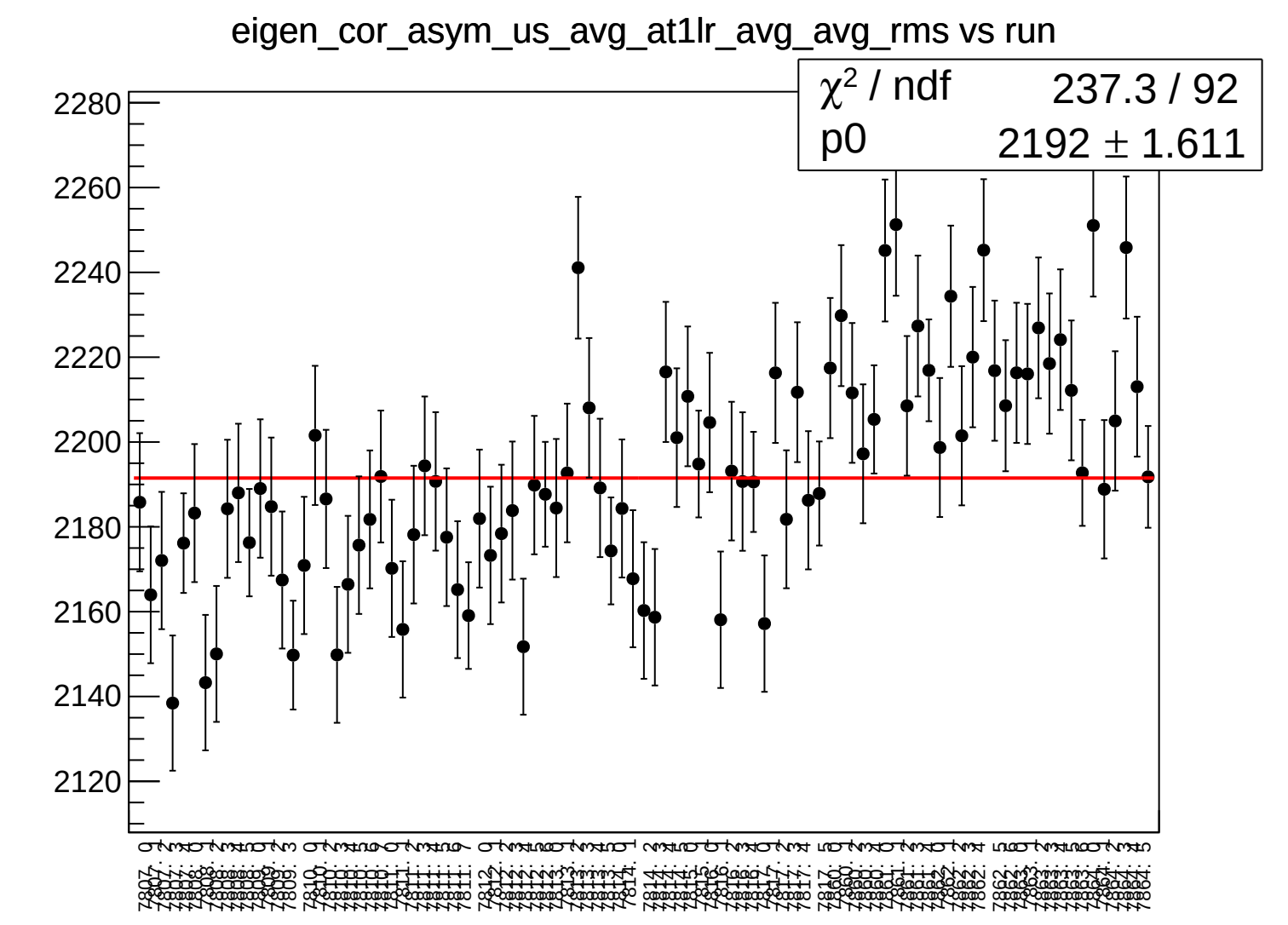

cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 237.3 / 92
p0 2192 ± 1.611
2280
2260
2240
2220
2200
2180
2160
2140
2120

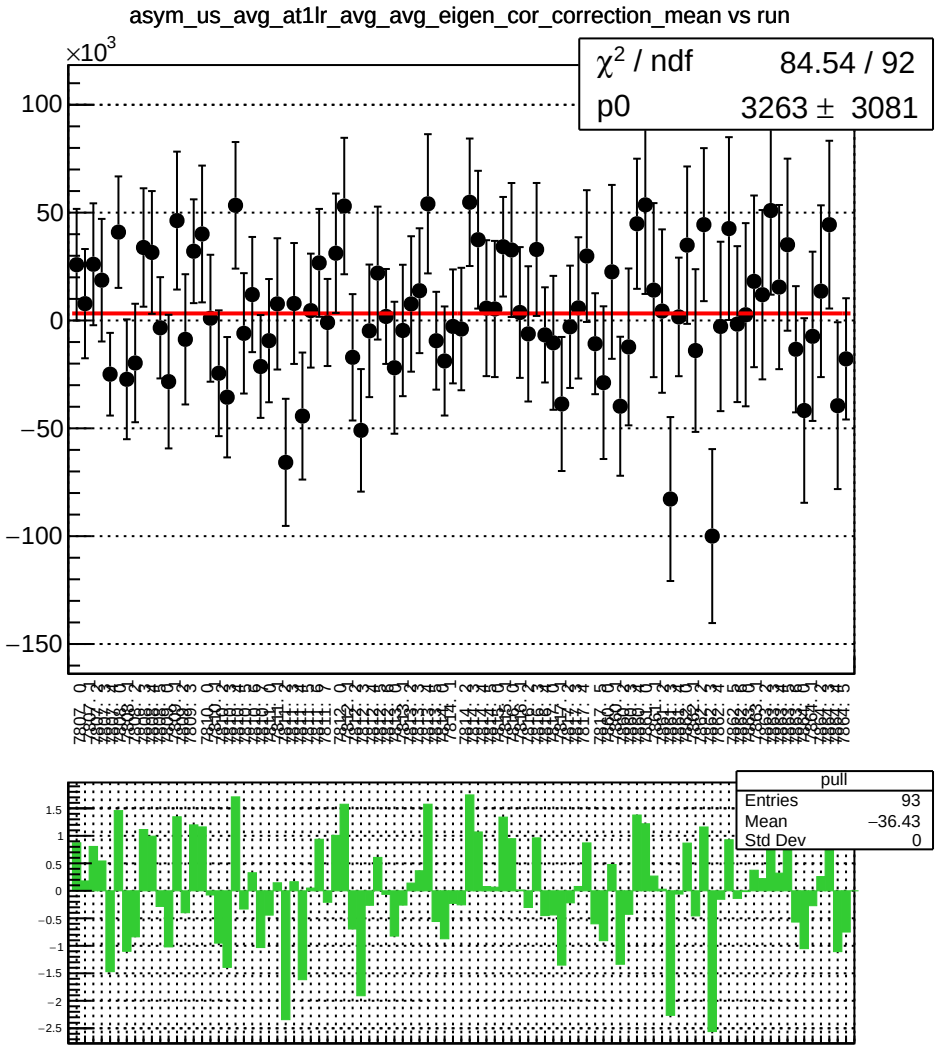

asym_us_avg_at1lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 84.54 / 92
p0 3263 ± 3081
100
50
0
−50
−100
−150
pull
Entries 93
Mean −36.43
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 93
Mean 0.01284
Std Dev 0.9533
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

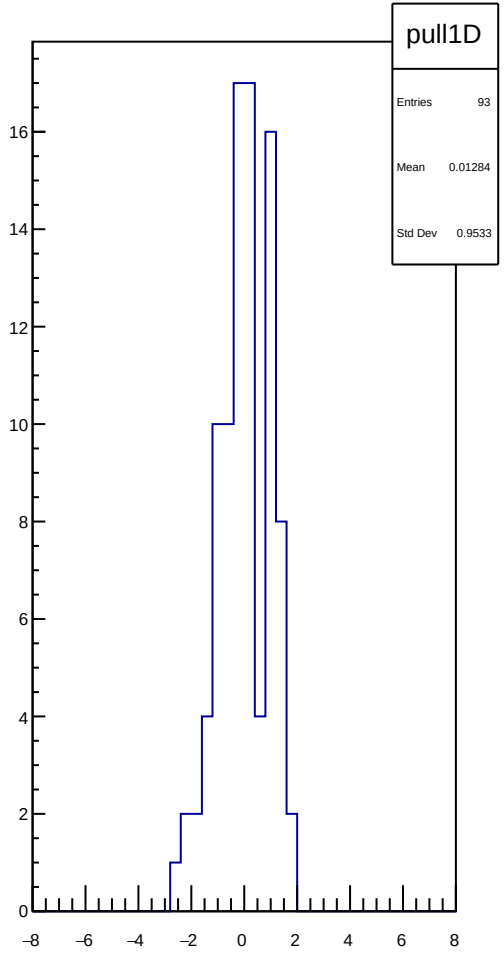

asym_us_avg_at1lr_avg_avg_cor_correction_rms vs run
χ² / ndf 3.739e+04 / 92
p0 2934 ± 2.179
4200
4000
3800
3600
3400
3200
3000
2800
2600
2400
2200

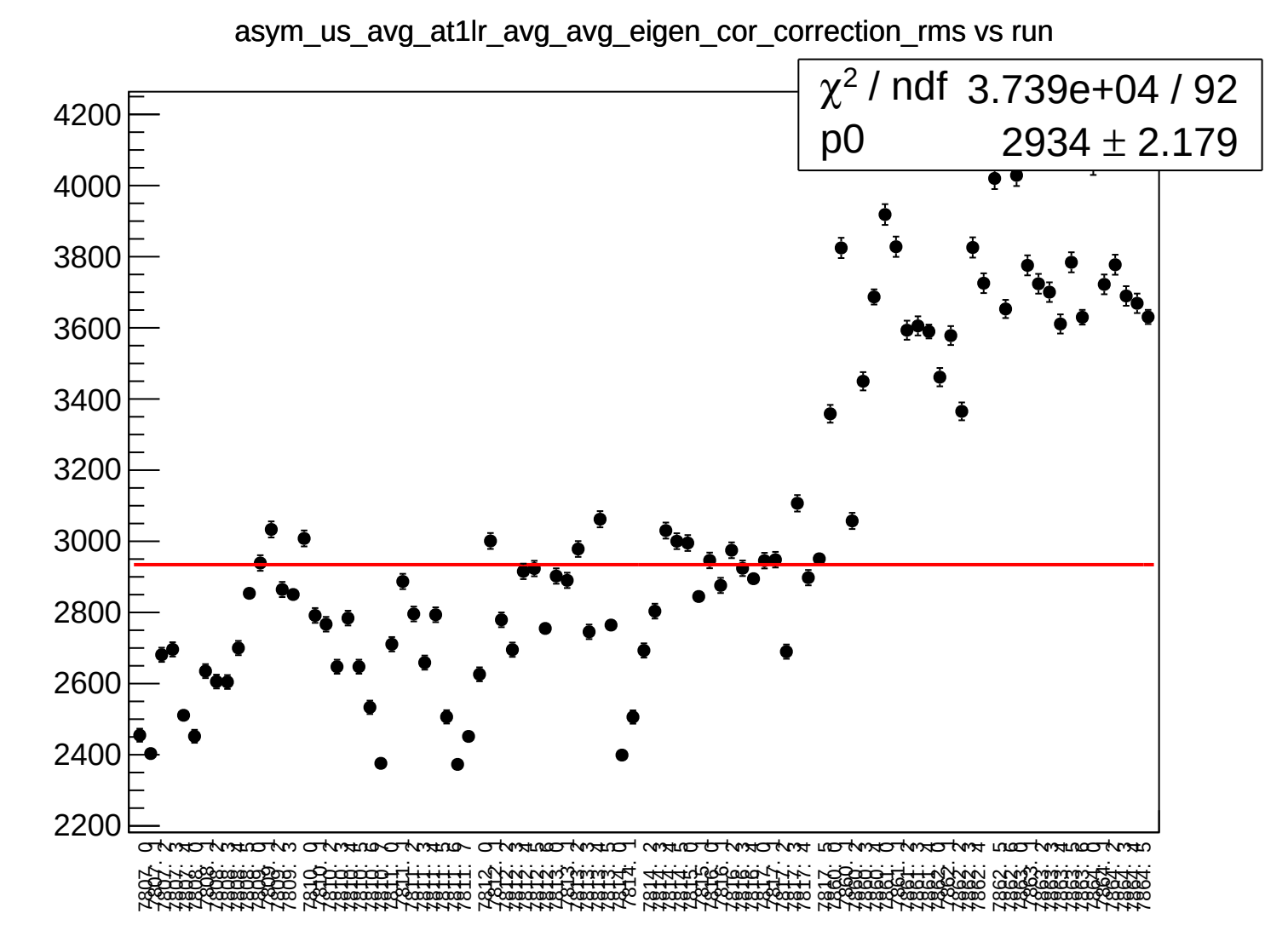

eigen_cor_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 77.57 / 92
p0 −4892 ± 2278
pull
Entries 93
Mean 214.1
Std Dev 0

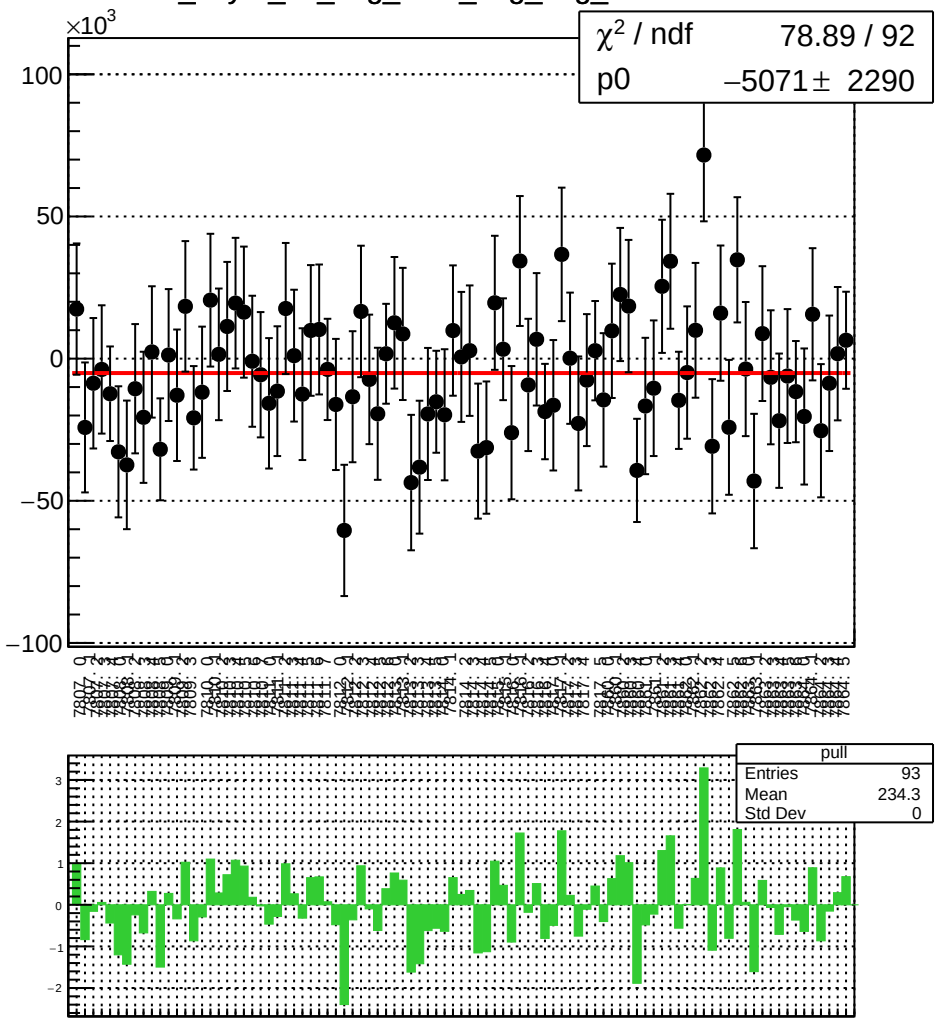

pull1D
Entries 93
Mean 0.01525
Std Dev 0.9131

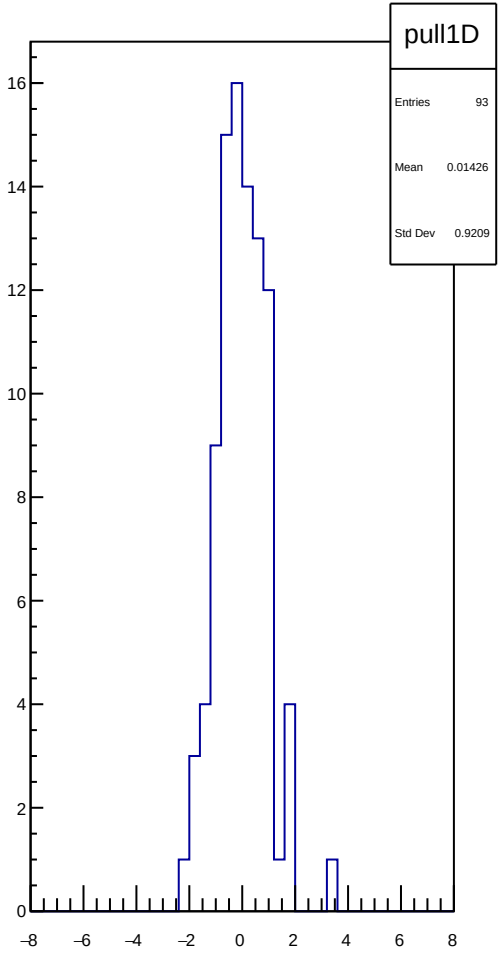

eigen_cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 237.3 / 92
p0 2192 ± 1.611
2280
2260
2240
2220
2200
2180
2160
2140
2120

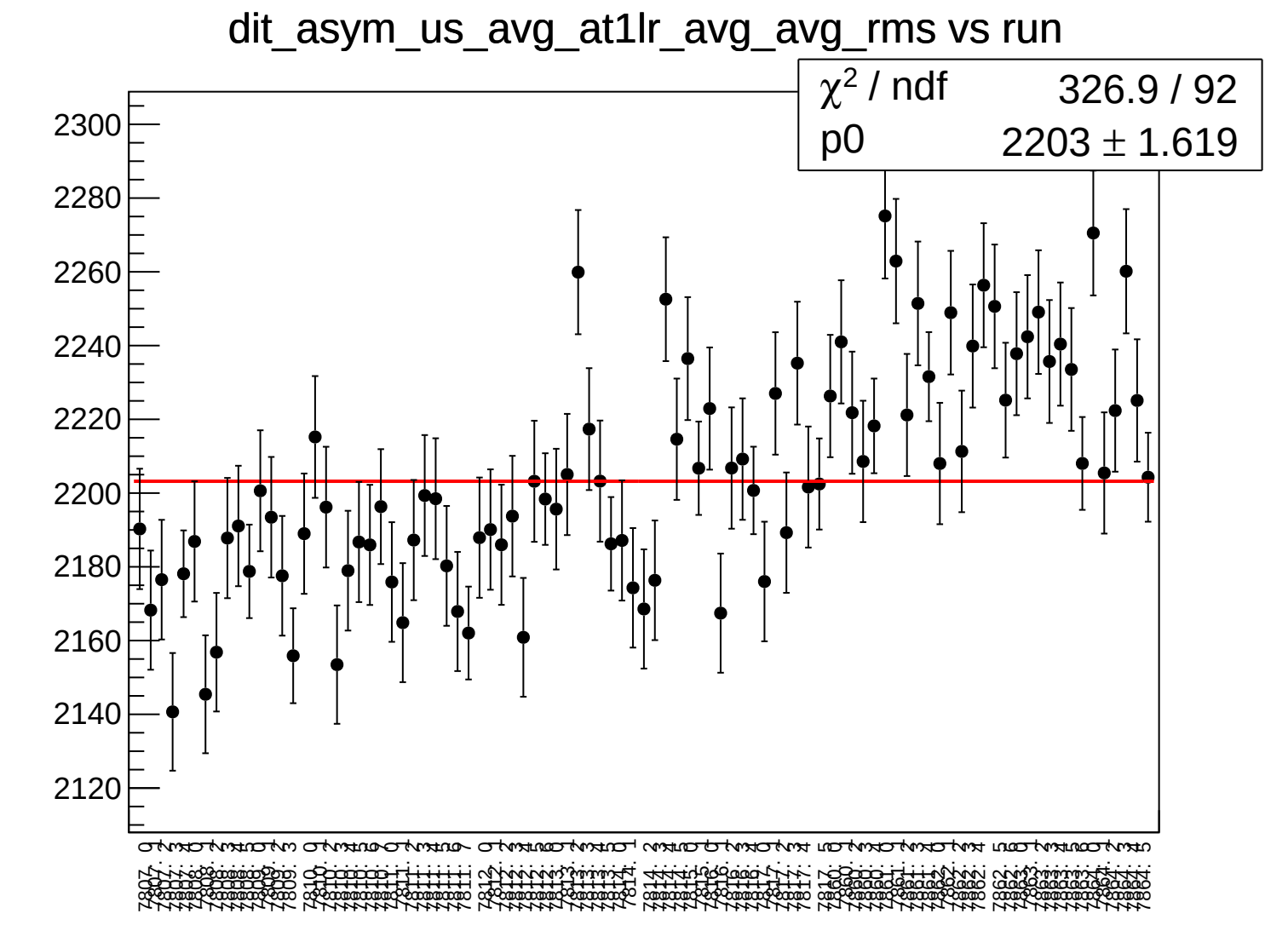

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 84.54 / 92
p0 3263 ± 3081
100
50
0
−50
−100
−150
pull
Entries 93
Mean −36.43
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

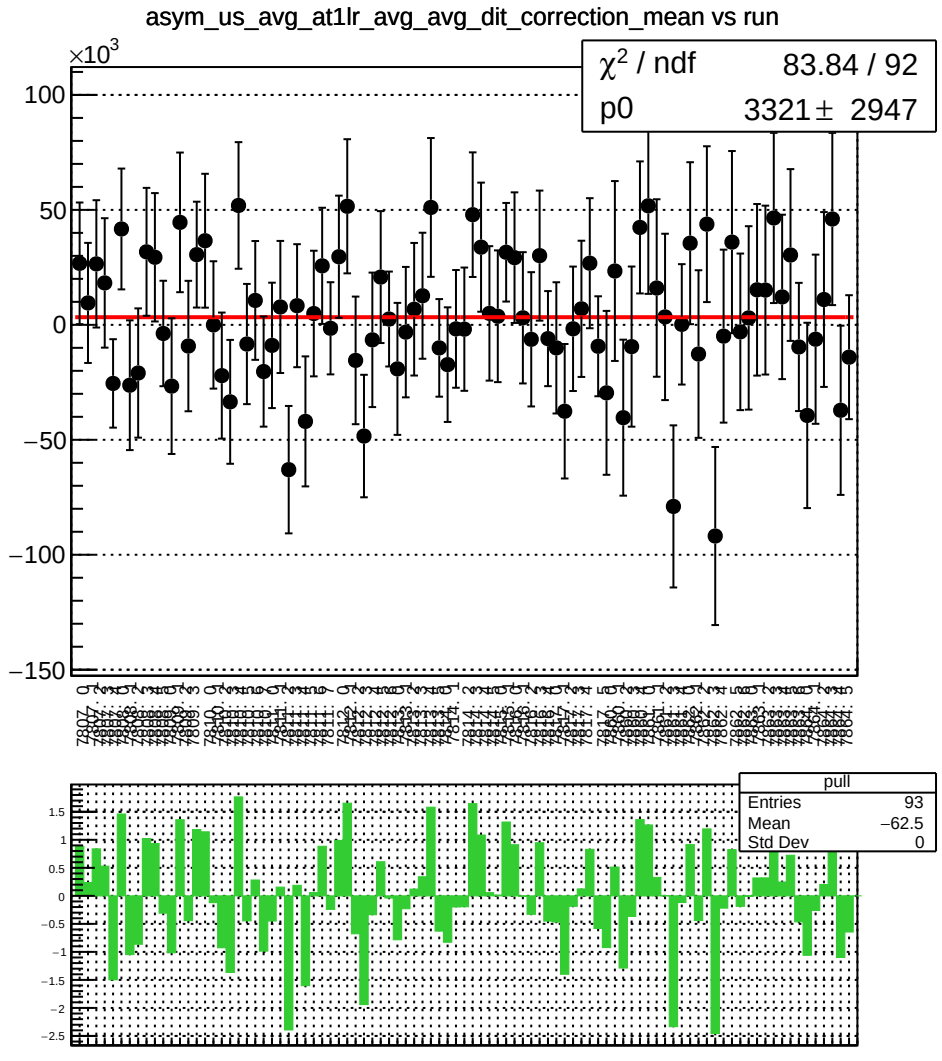

pull1D
Entries 93
Mean 0.01284
Std Dev 0.9533
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

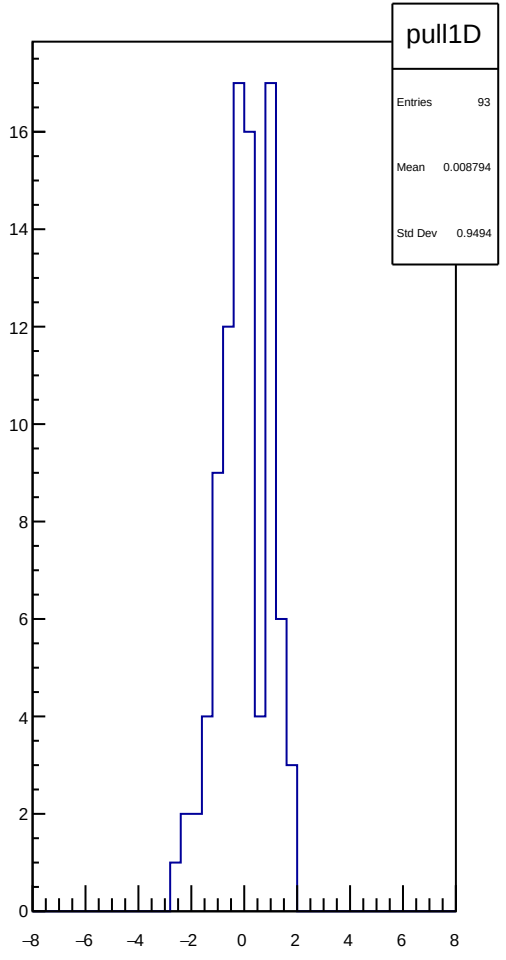

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.739e+04 / 92
p0 2934 ± 2.179
4200
4000
3800
3600
3400
3200
3000
2800
2600
2400
2200

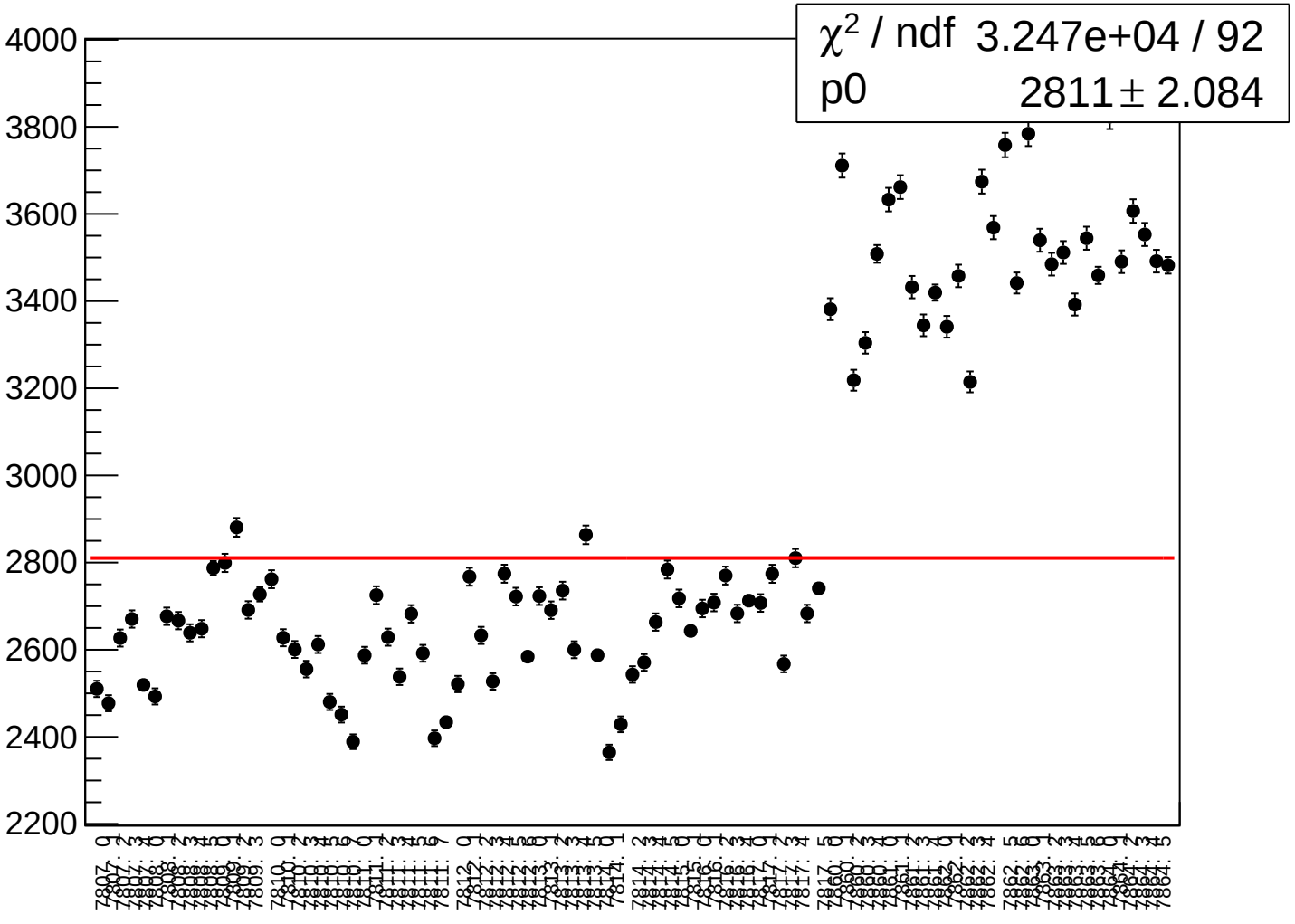

dit_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 78.89 / 92
p0 −5071 ± 2290
100
50
0
−50
−100
pull
Entries 93
Mean 234.3
Std Dev 0
3
2
1
0
−1
−2

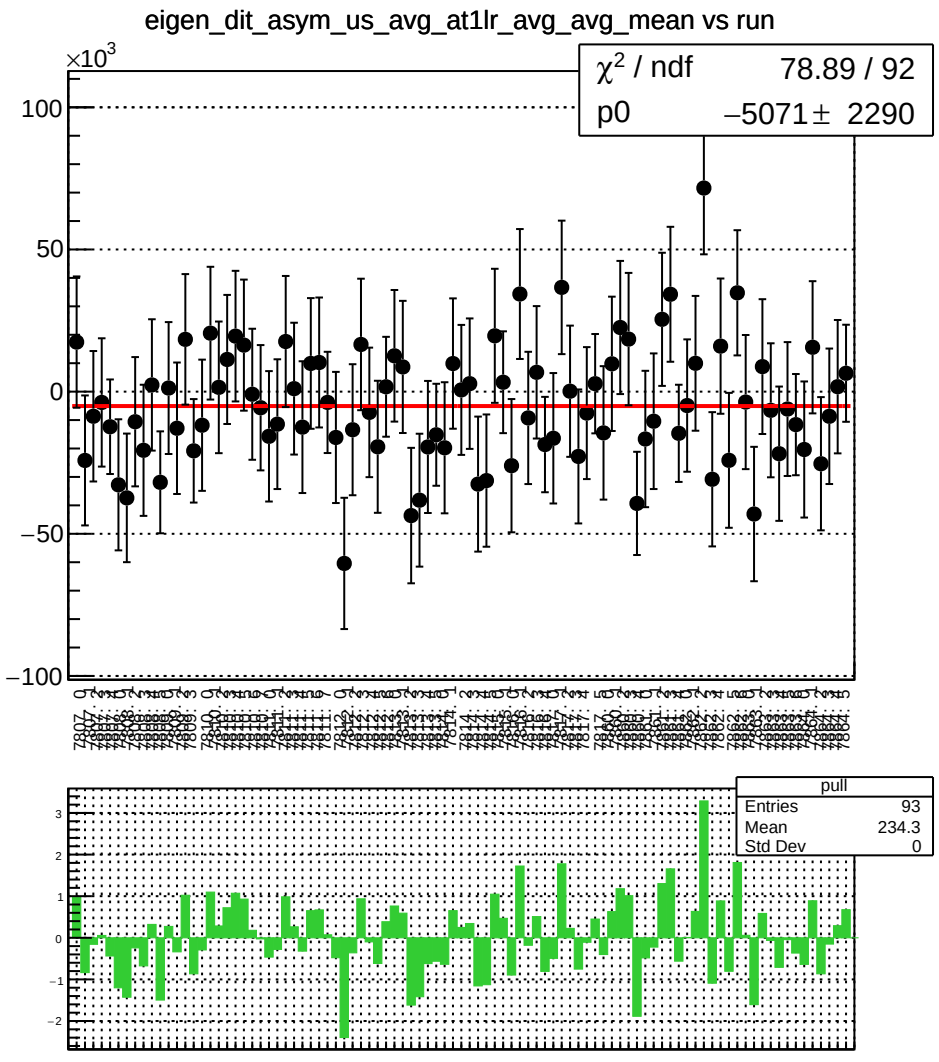

pull1D
Entries 93
Mean 0.01426
Std Dev 0.9209
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

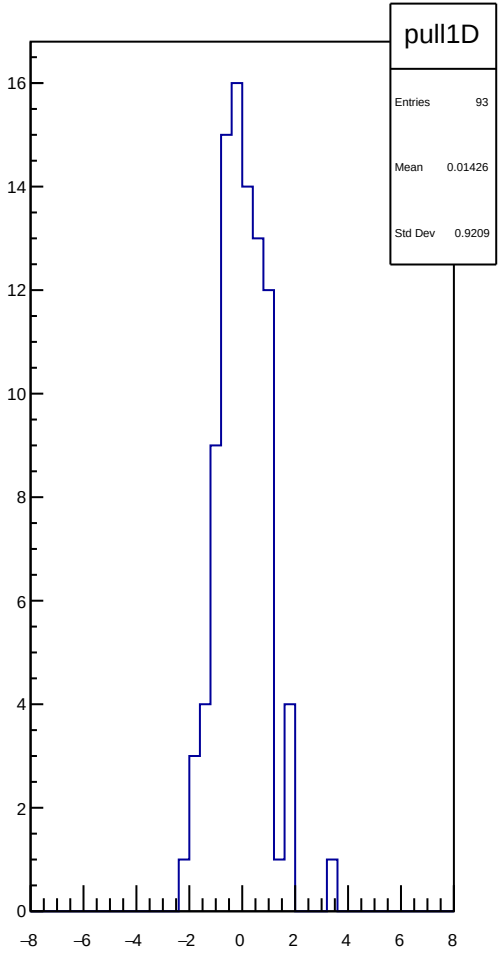

dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 326.9 / 92
p0 2203 ± 1.619
2300
2280
2260
2240
2220
2200
2180
2160
2140
2120

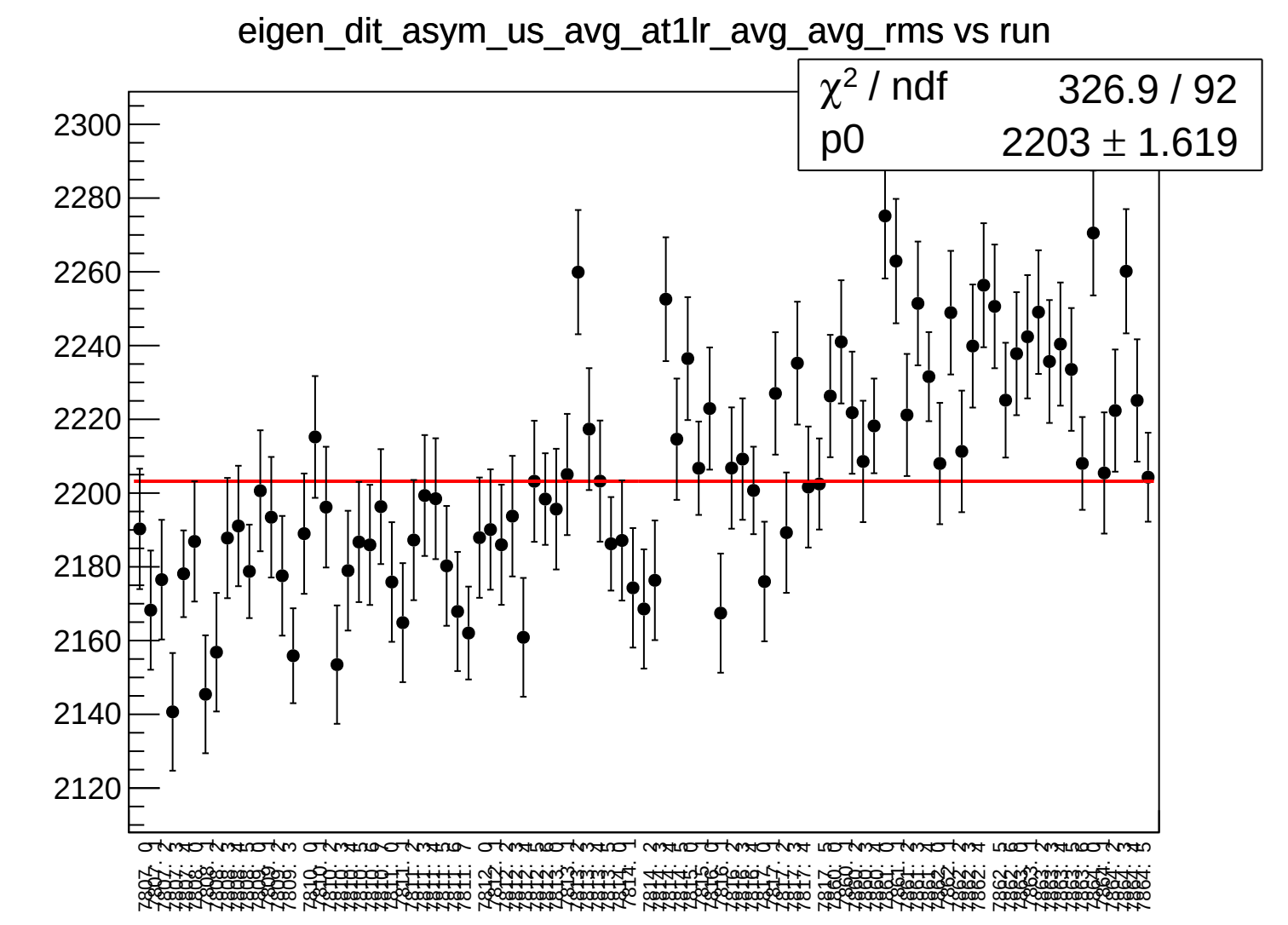

asym_us_avg_at1lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 83.84 / 92
p0 3321 ± 2947
100
50
0
−50
−100
−150
pull
Entries 93
Mean −62.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

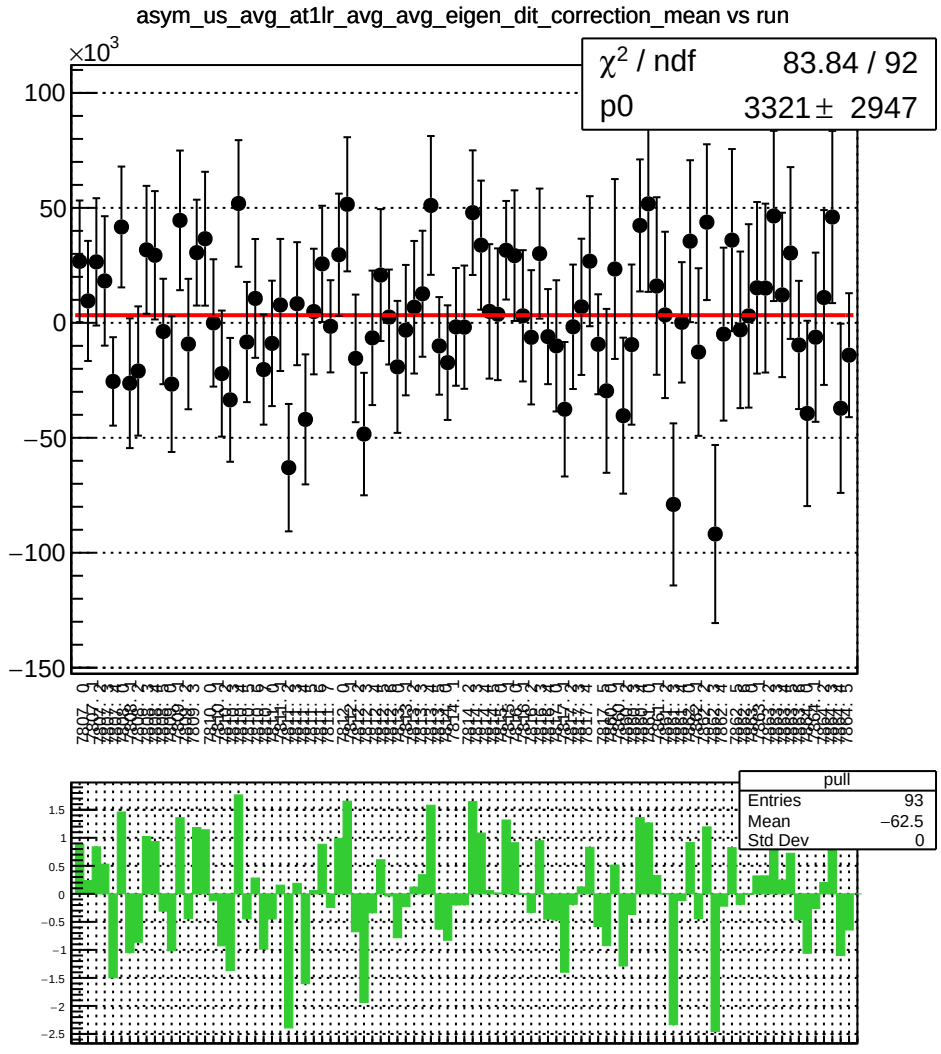

pull1D
Entries 93
Mean 0.008794
Std Dev 0.9494
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

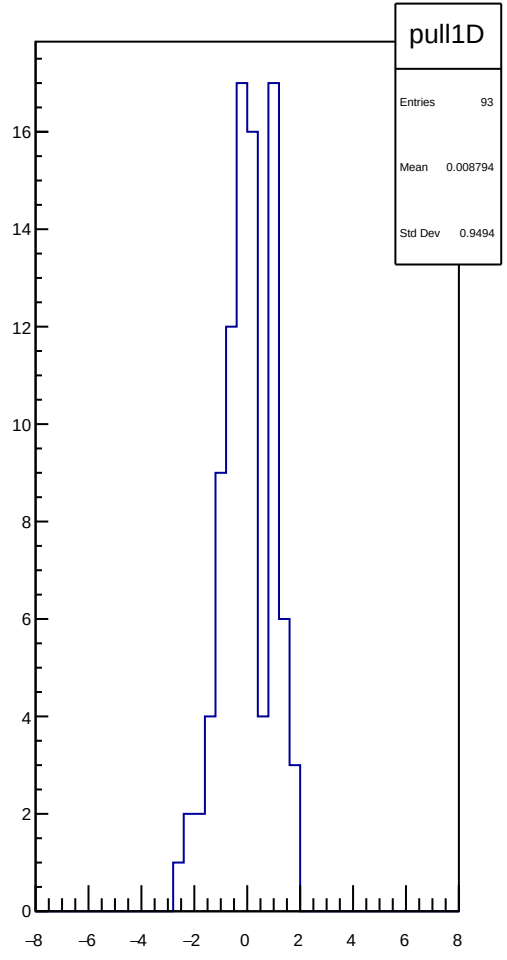

asym_us_avg_at1lr_avg_avg_dit_correction_rms vs run
χ² / ndf 3.247e+04 / 92
p0 2811 ± 2.084
4000
3800
3600
3400
3200
3000
2800
2600
2400
2200

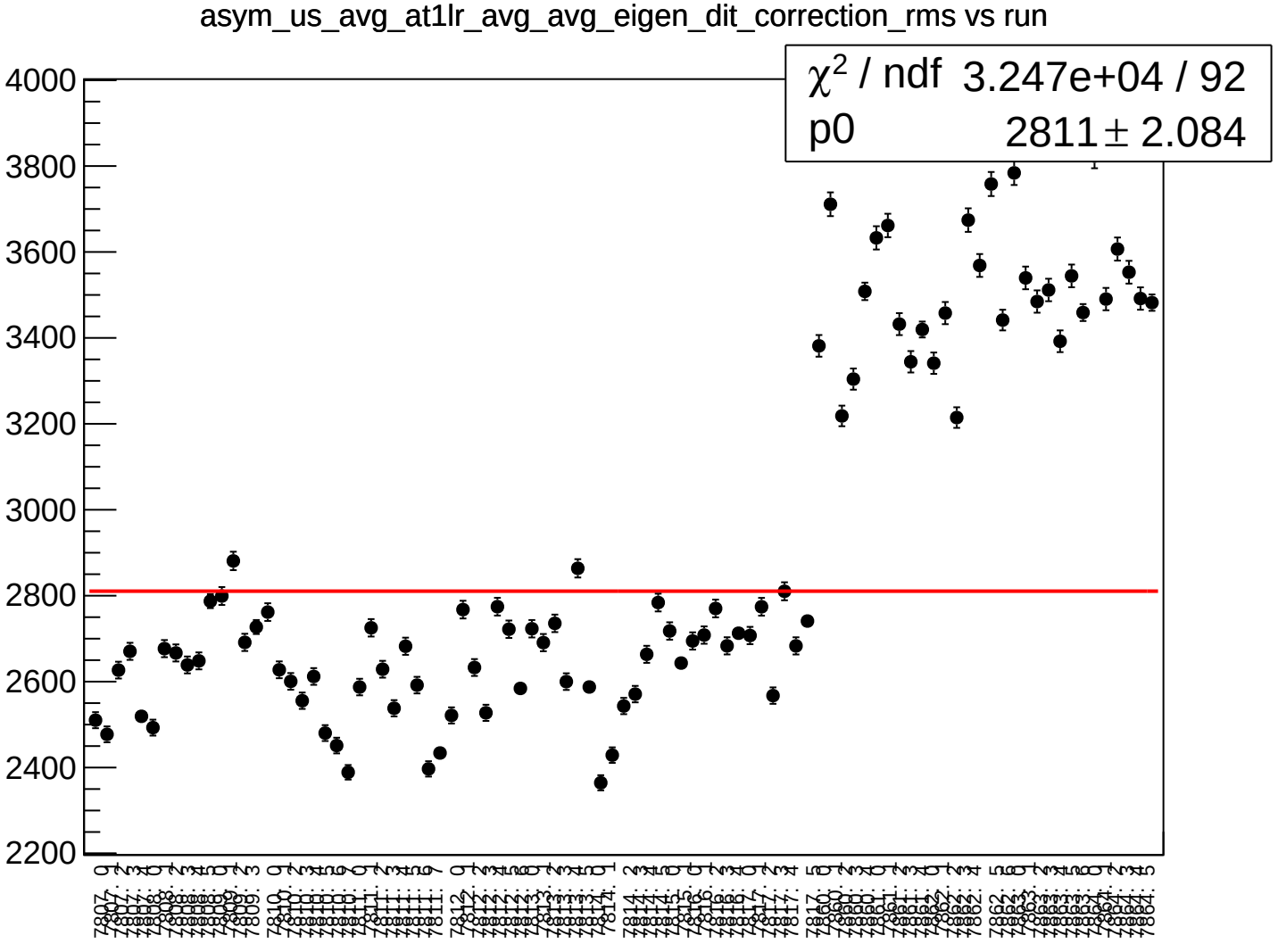

eigen_dit_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 78.89 / 92
p0 −5071 ± 2290
100
50
0
−50
−100
pull
Entries 93
Mean 234.3
Std Dev 0
3
2
1
0
−1
−2

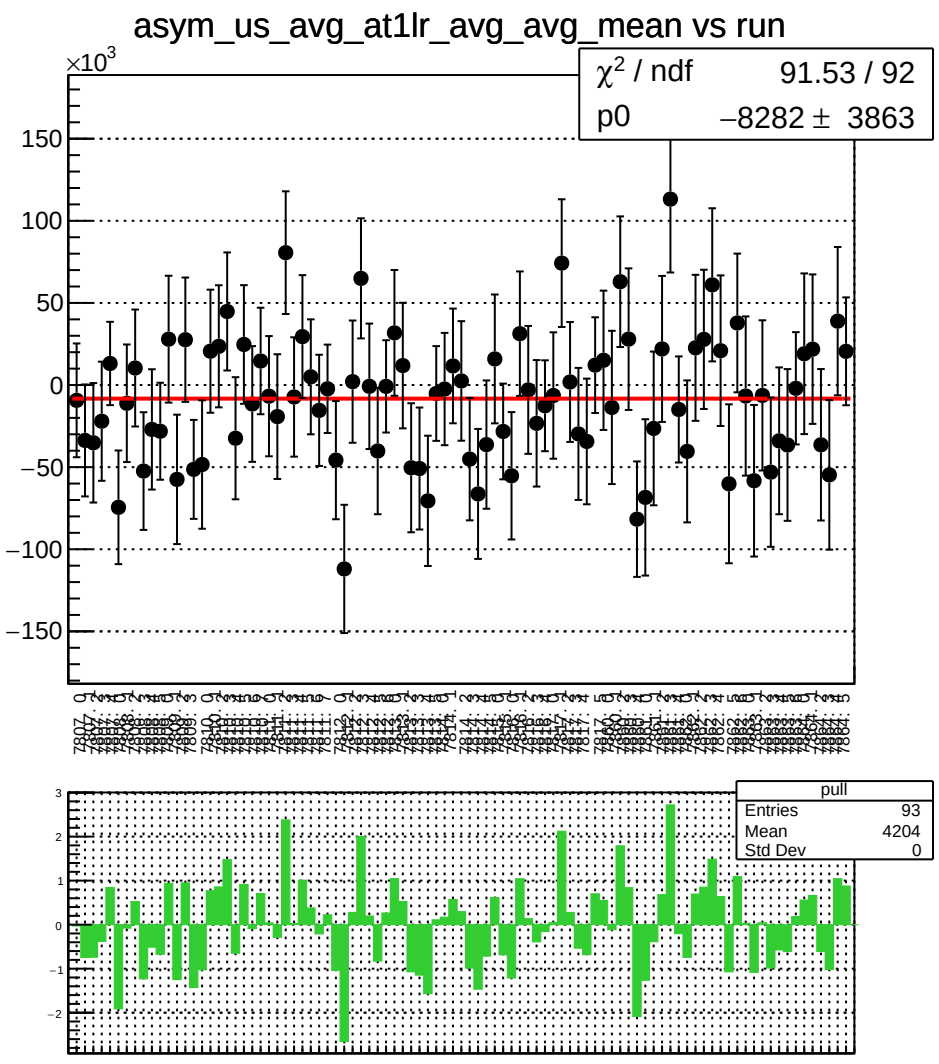

pull1D
Entries 93
Mean 0.01426
Std Dev 0.9209
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

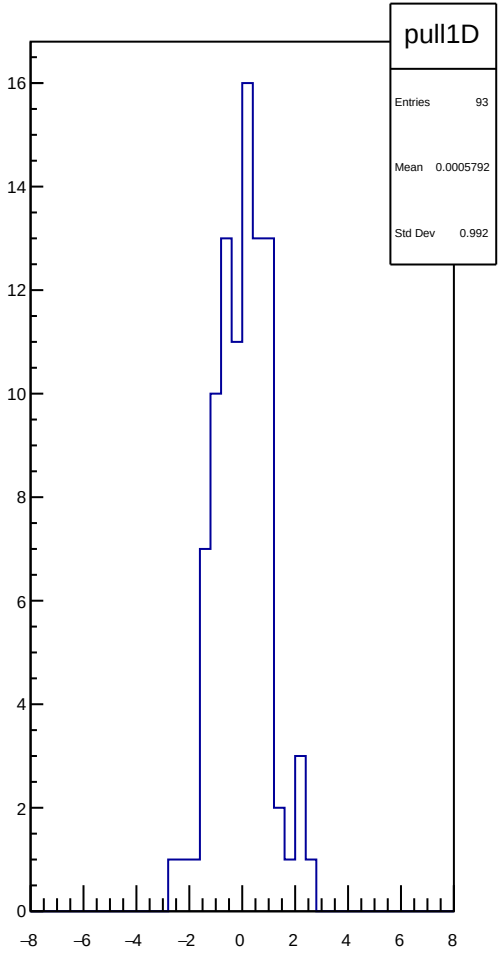

eigen_dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 326.9 / 92
p0 2203 ± 1.619
2300
2280
2260
2240
2220
2200
2180
2160
2140
2120

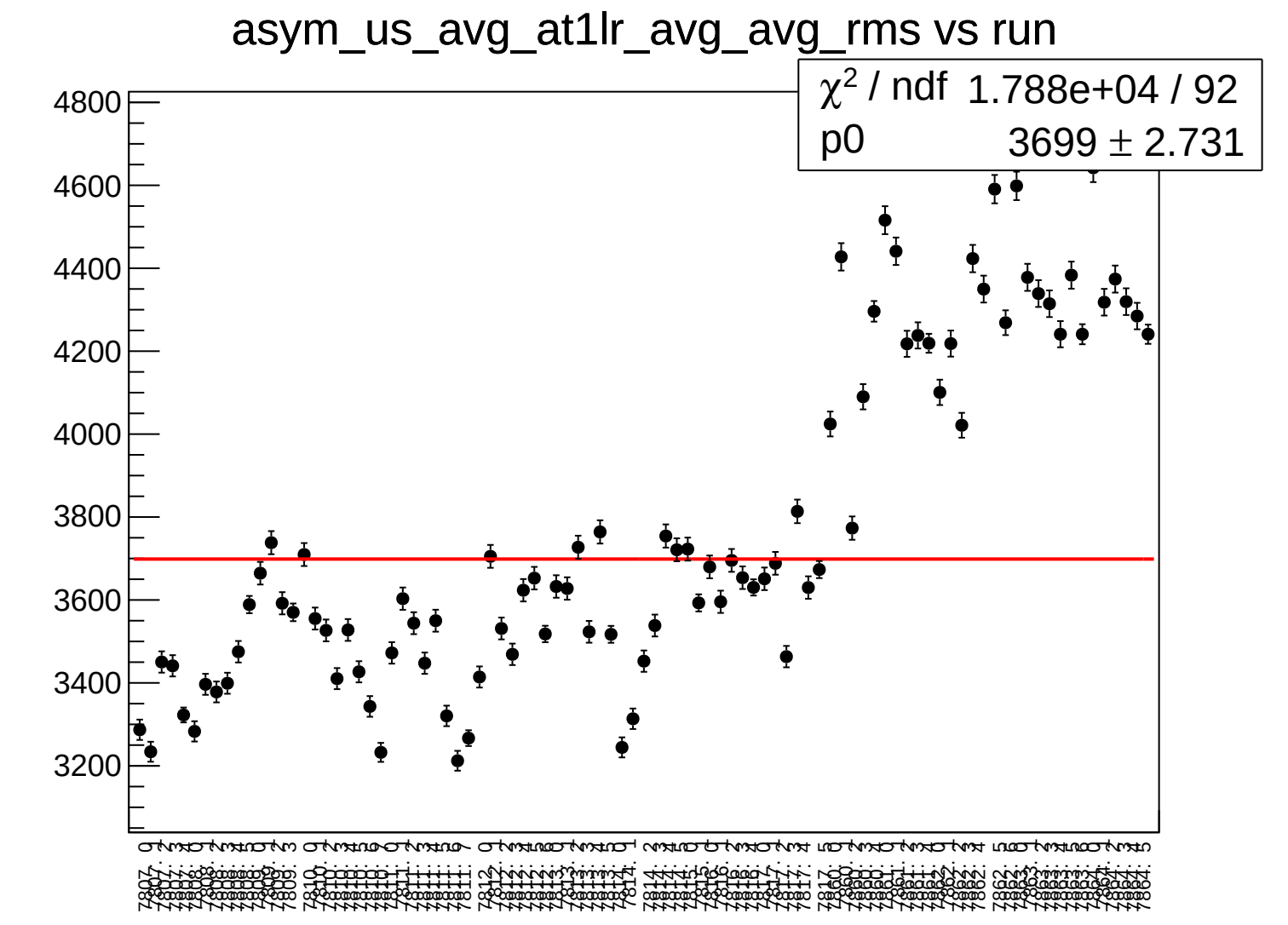

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 83.84 / 92
p0 3321 ± 2947
pull
Entries 93
Mean −62.5
Std Dev 0

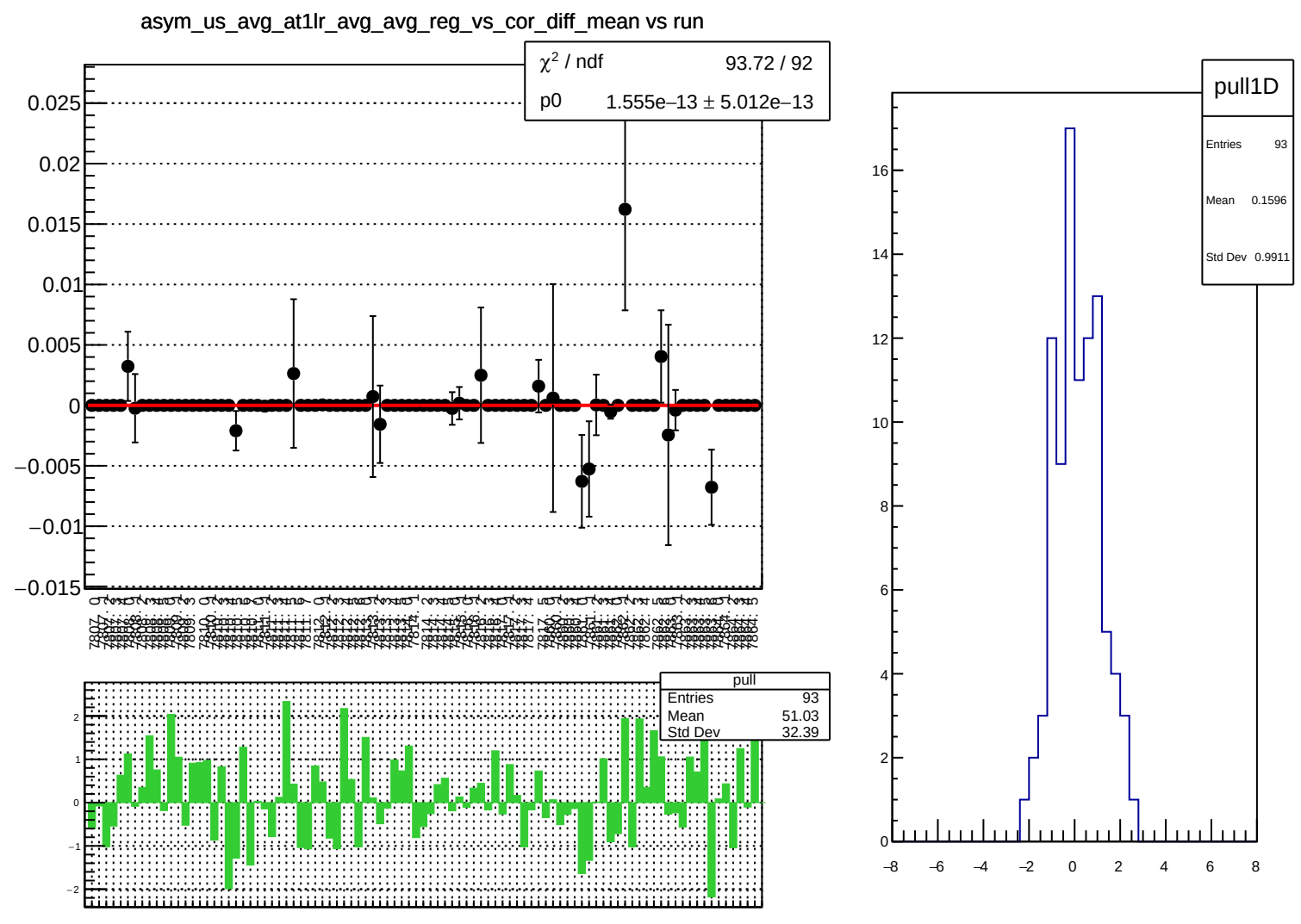

pull1D
Entries 93
Mean 0.008794
Std Dev 0.9494

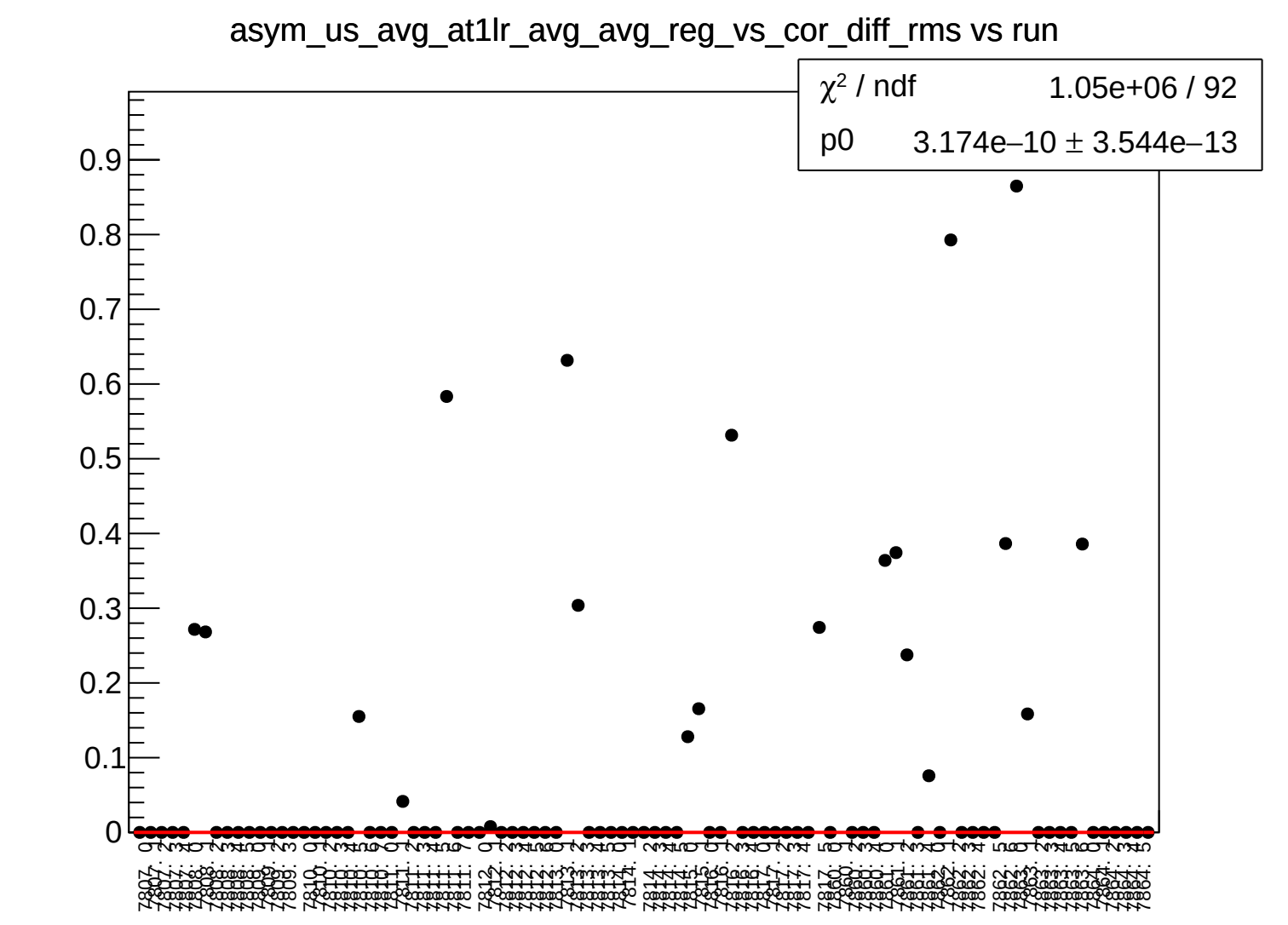

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.247e+04 / 92
p0 2811 ± 2.084
4000
3800
3600
3400
3200
3000
2800
2600
2400
2200

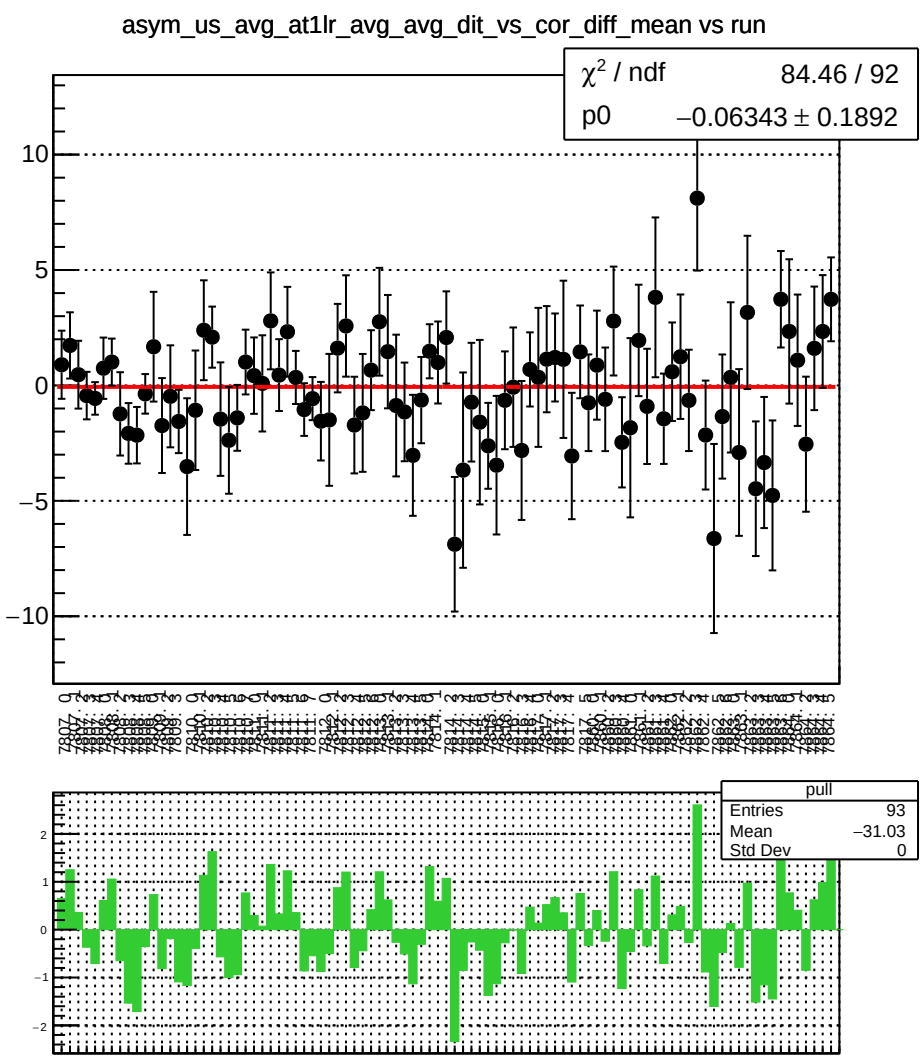

asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 91.53 / 92
p0 −8282 ± 3863
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean 4204
Std Dev 0
3
2
1
0
−1
−2

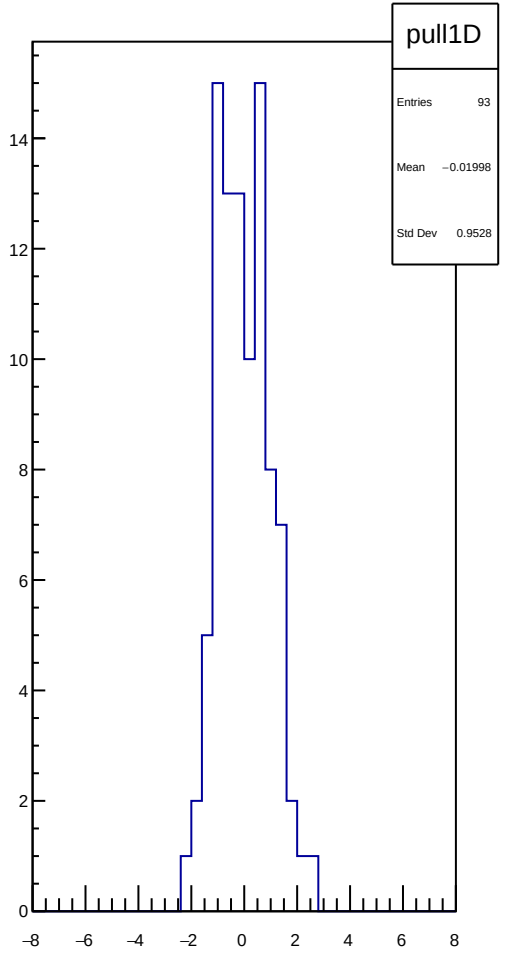

pull1D
Entries 93
Mean 0.0005792
Std Dev 0.992
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

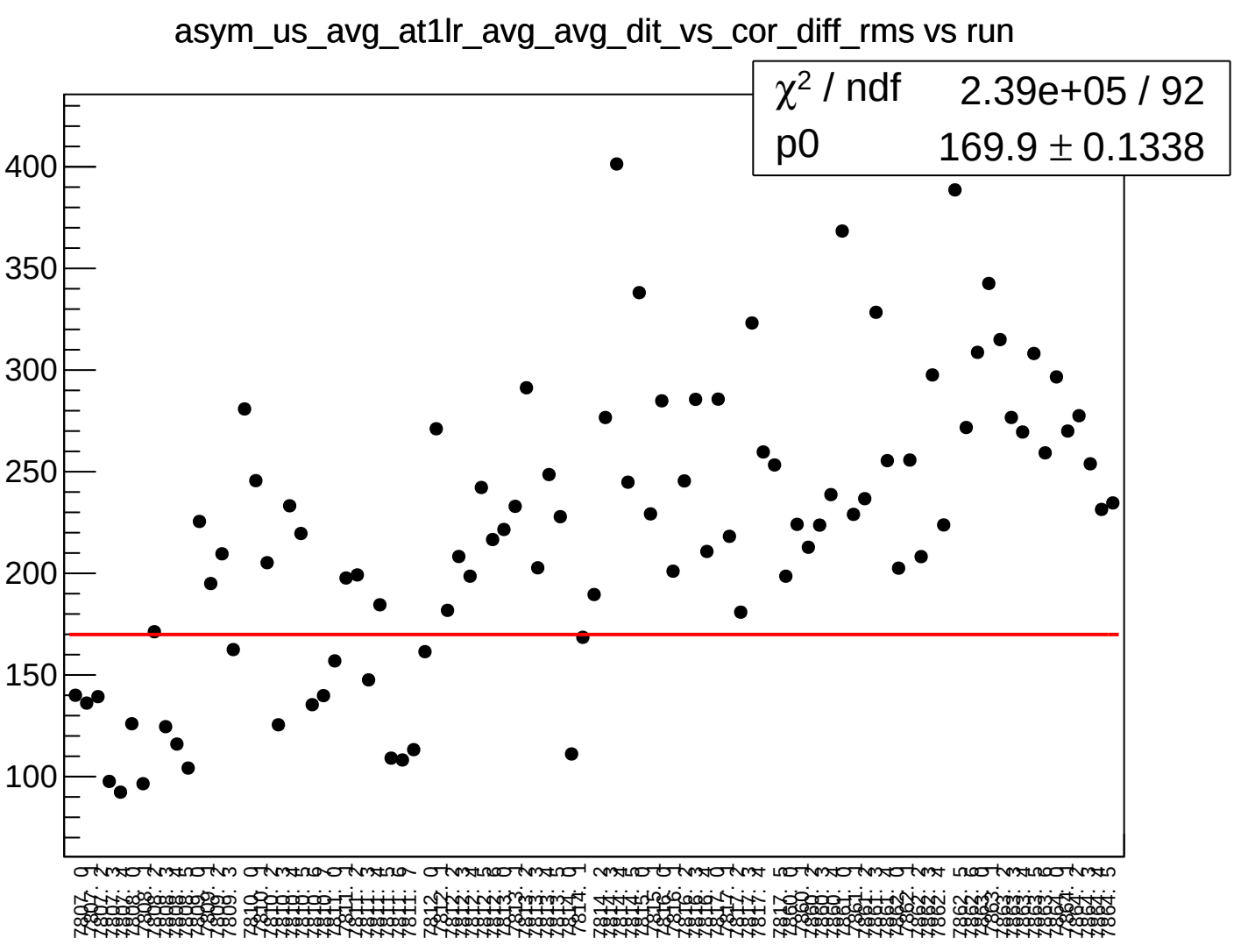

asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 1.788e+04 / 92
p0 3699 ± 2.731
4800
4600
4400
4200
4000
3800
3600
3400
3200

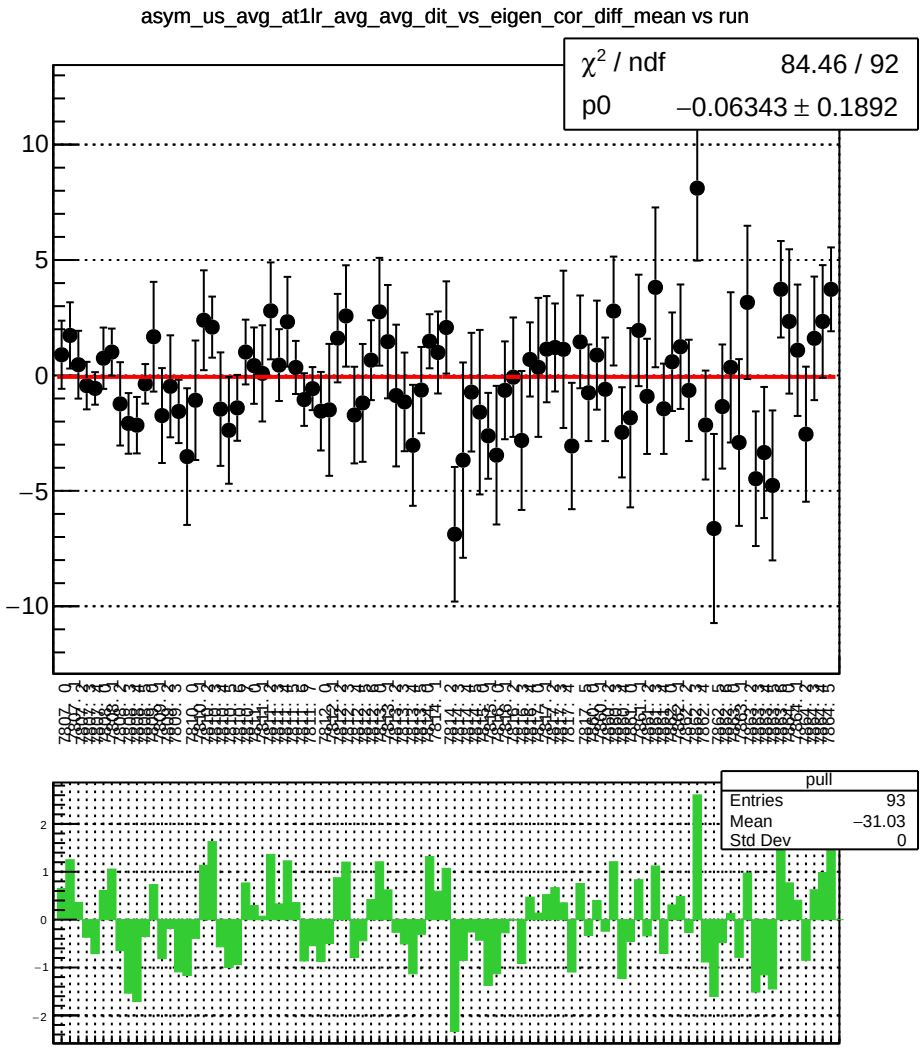

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 93.72 / 92
p0 1.555e−13 ± 5.012e−13
0.025
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 93
Mean 51.03
Std Dev 32.39
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.1596
Std Dev 0.9911
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

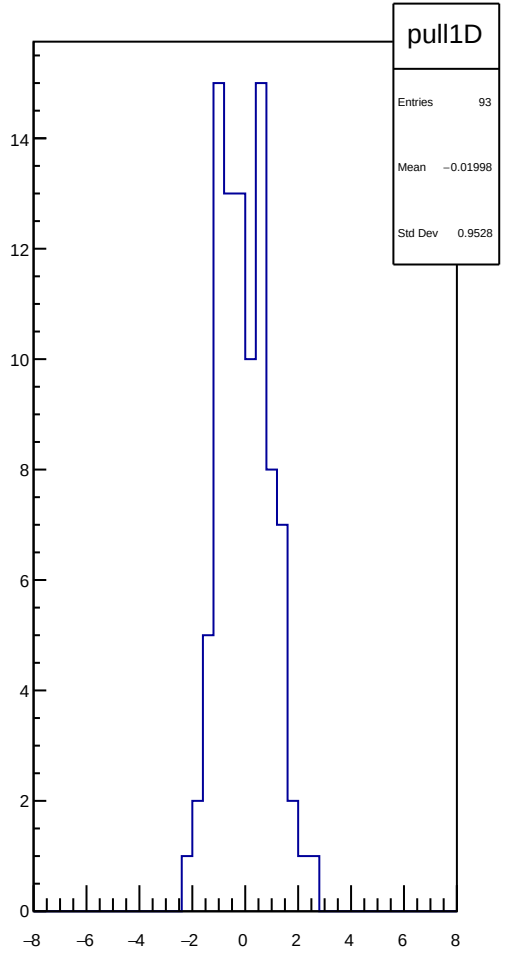

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.05e+06 / 92
p0 3.174e−10 ± 3.544e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

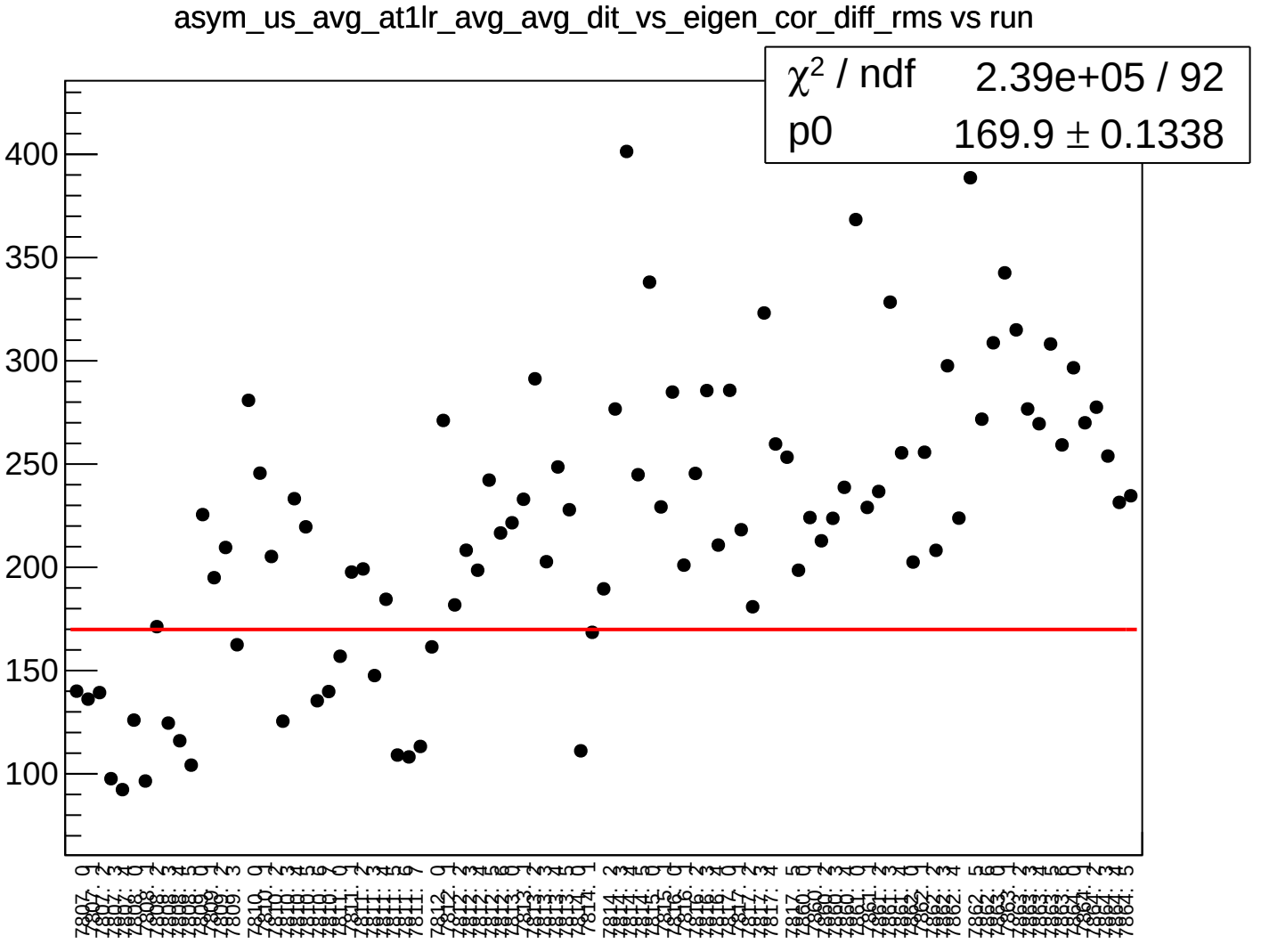

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 84.46 / 92
p0 −0.06343 ± 0.1892
10
5
0
−5
−10
pull
Entries 93
Mean −31.03
Std Dev 0
2
1
0
−1
−2

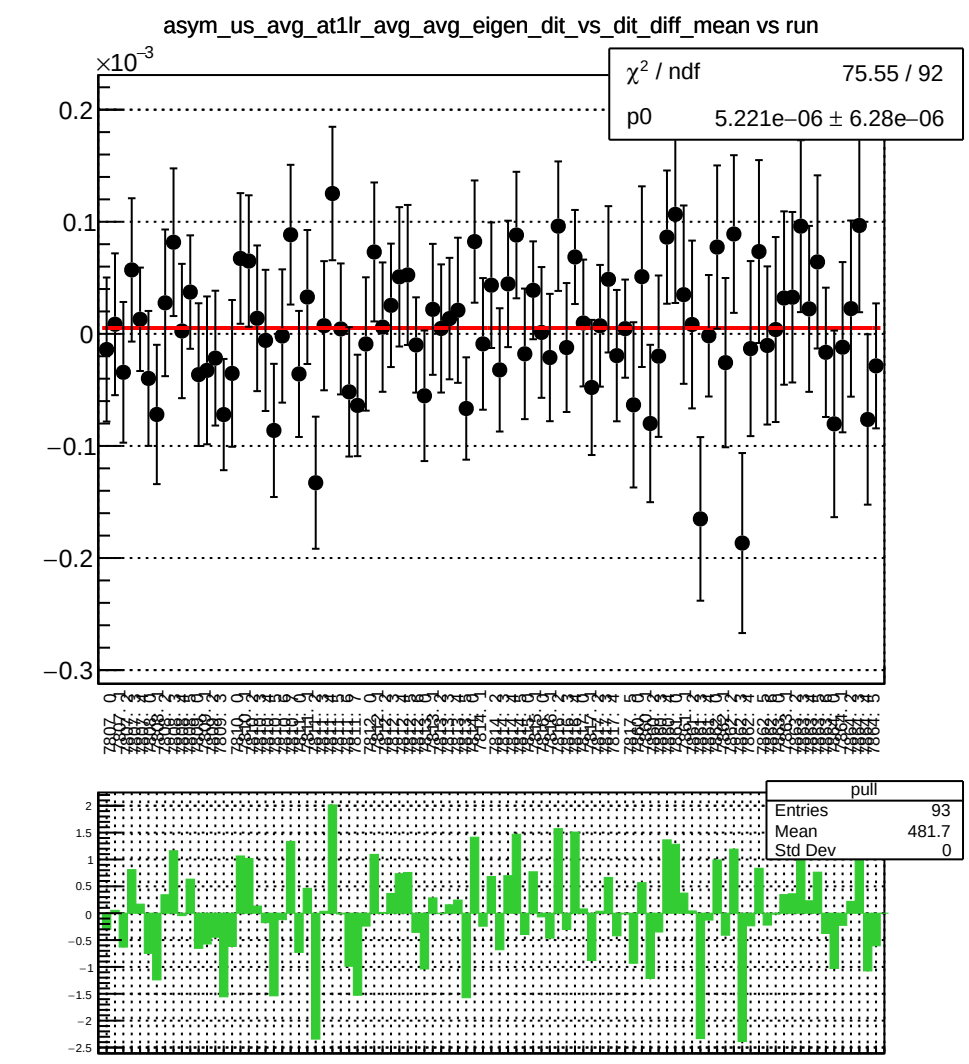

pull1D
Entries 93
Mean −0.01998
Std Dev 0.9528
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

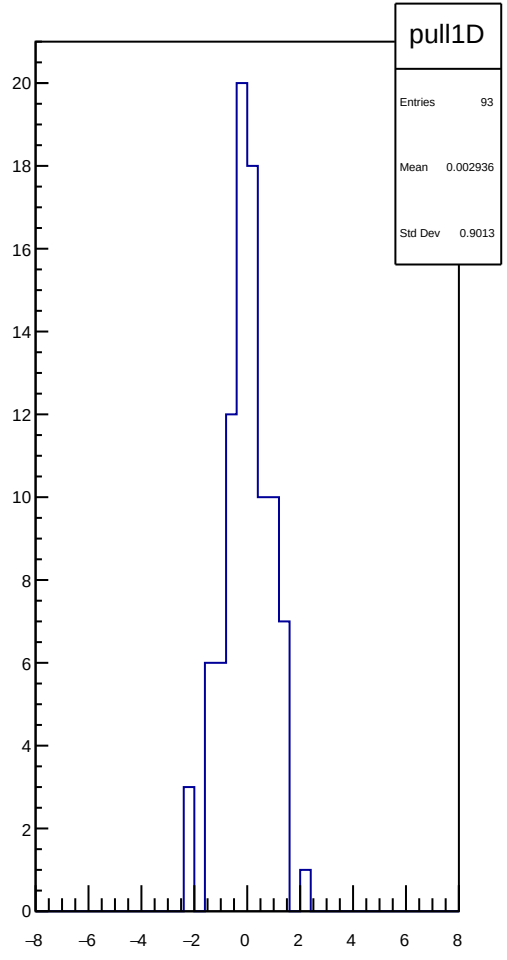

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.39e+05 / 92
p0 169.9 ± 0.1338
400
350
300
250
200
150
100

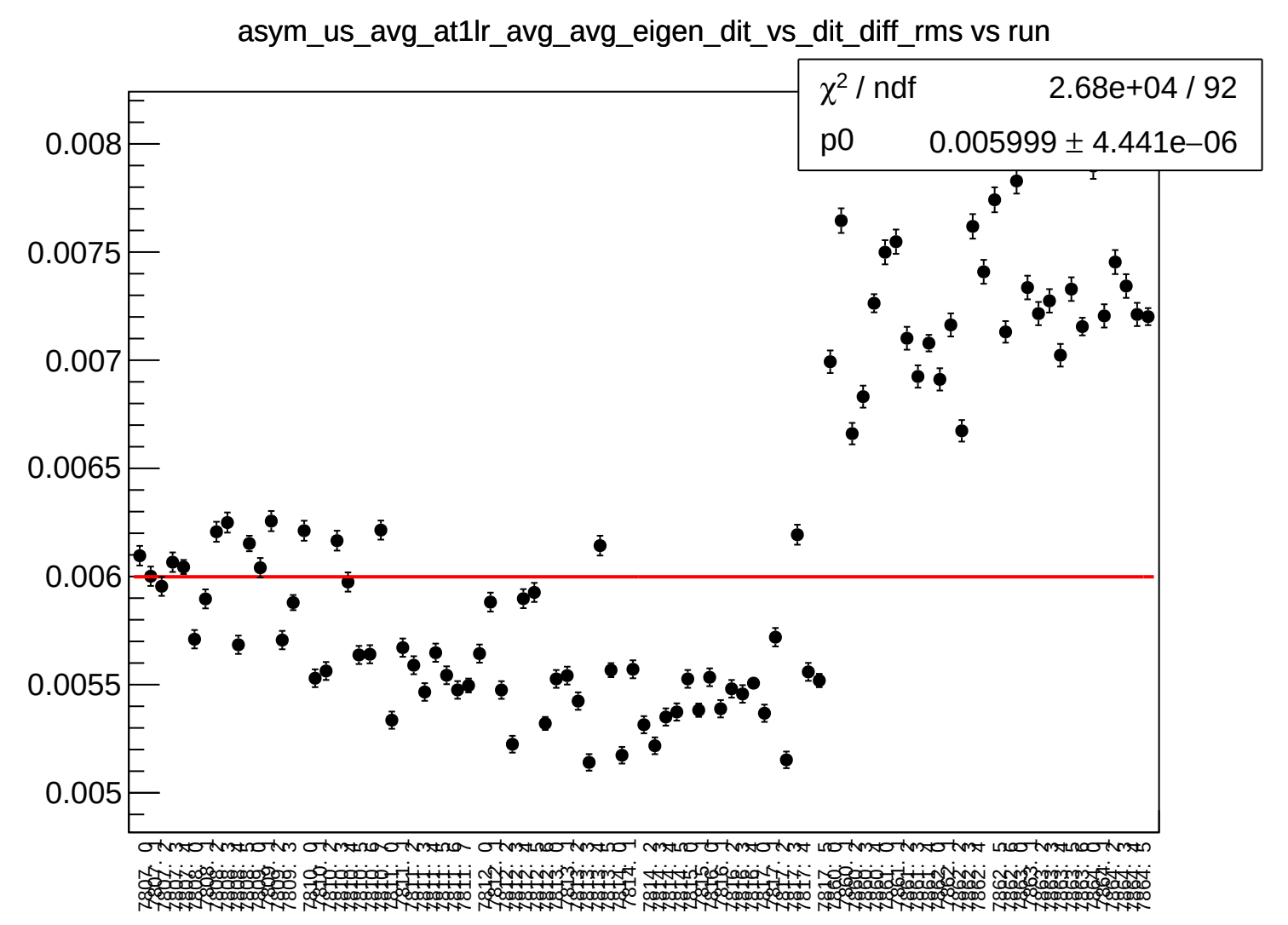

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.46 / 92
p0 −0.06343 ± 0.1892
pull
Entries 93
Mean −31.03
Std Dev 0

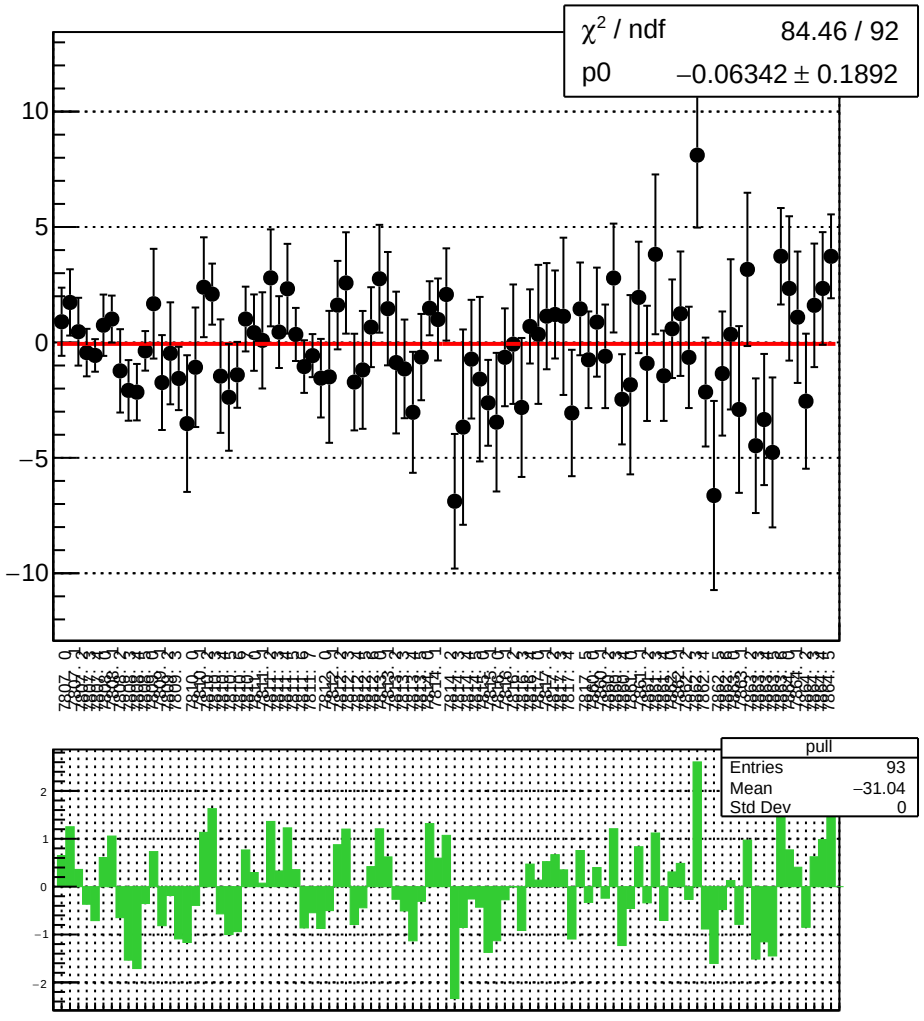

pull1D
Entries 93
Mean −0.01998
Std Dev 0.9528

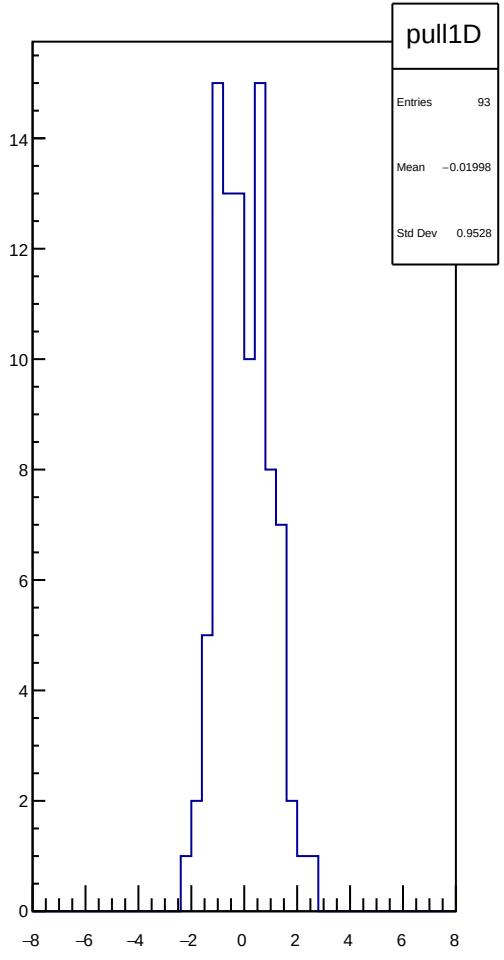

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.39e+05 / 92
p0 169.9 ± 0.1338
400
350
300
250
200
150
100

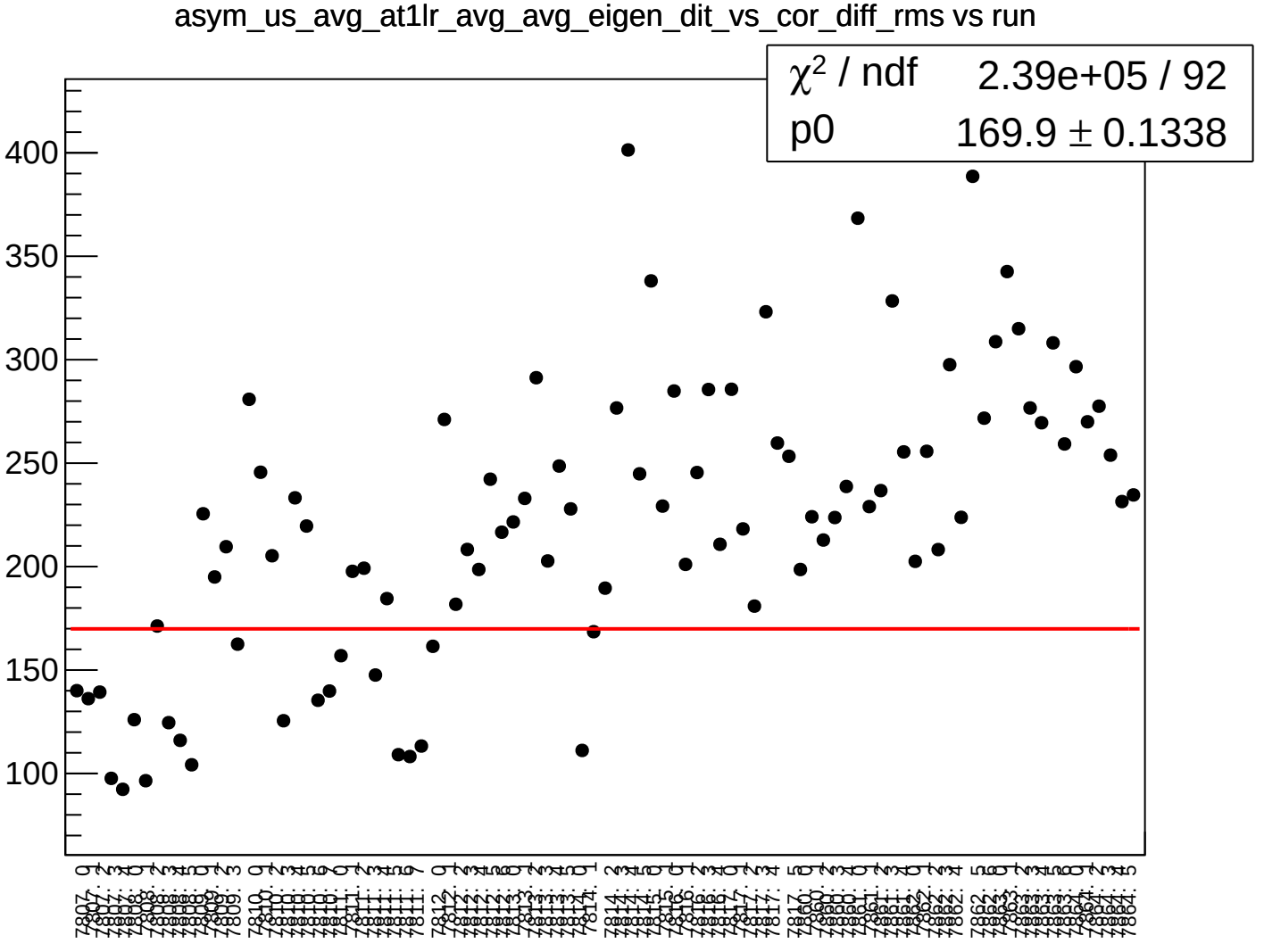

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 75.55 / 92
p0 5.221e−06 ± 6.28e−06
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 93
Mean 481.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

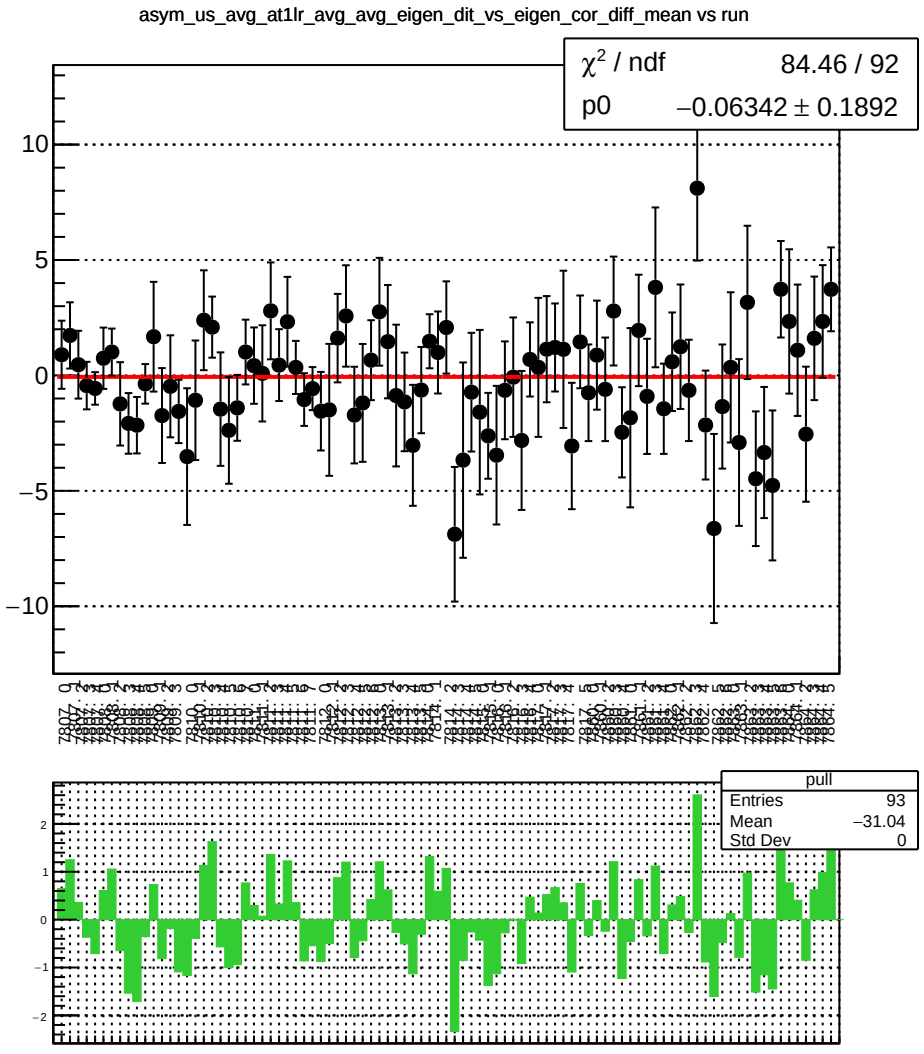

pull1D
Entries 93
Mean 0.002936
Std Dev 0.9013
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

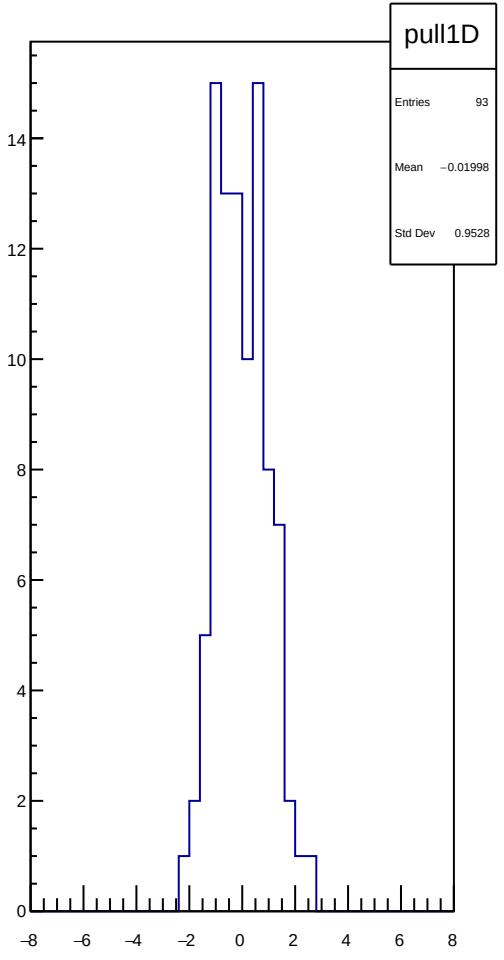

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.68e+04 / 92
p0 0.005999 ± 4.441e−06
0.008
0.0075
0.007
0.0065
0.006
0.0055
0.005

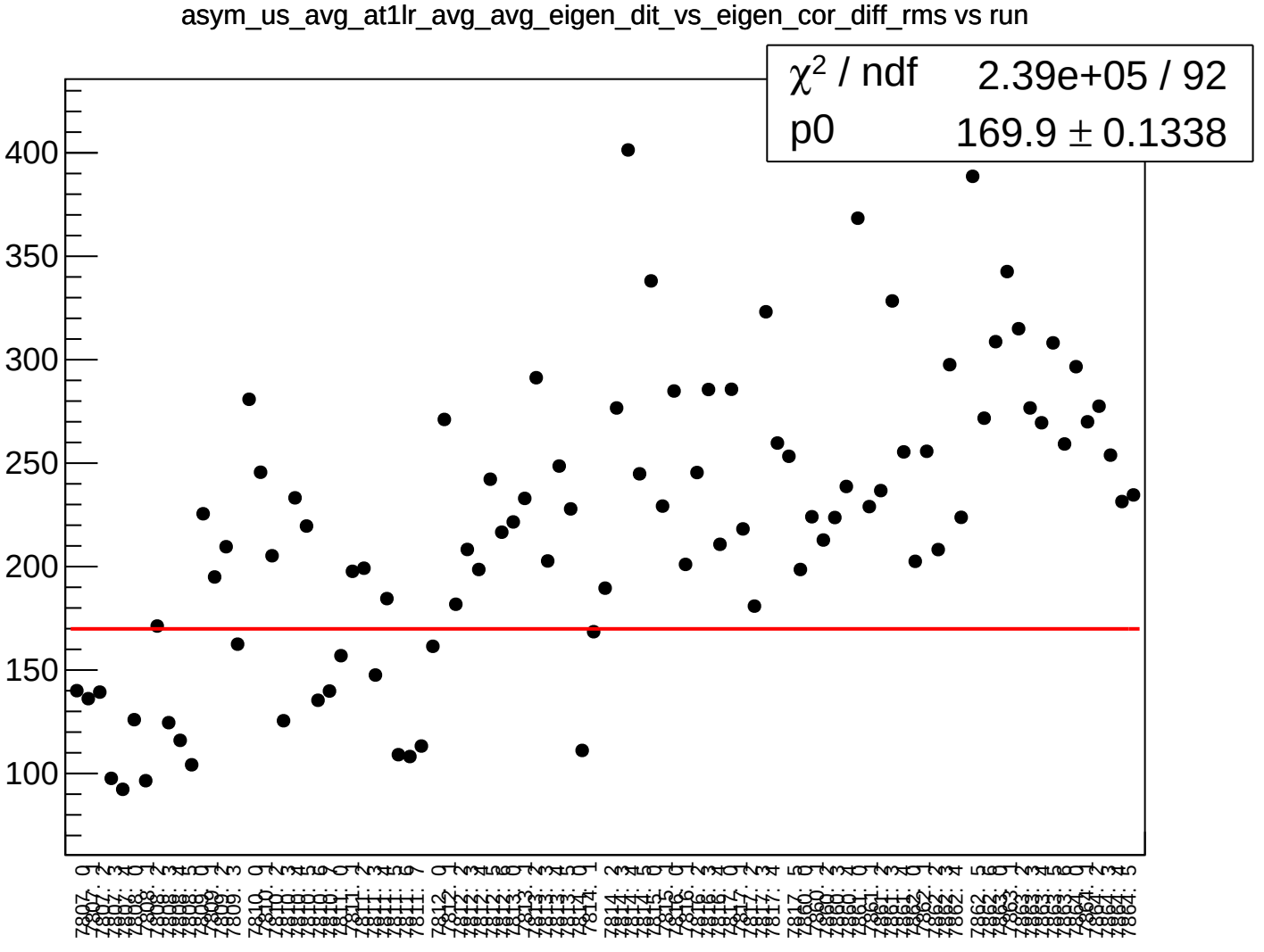

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.46 / 92
p0 −0.06342 ± 0.1892
pull
Entries 93
Mean −31.04
Std Dev 0

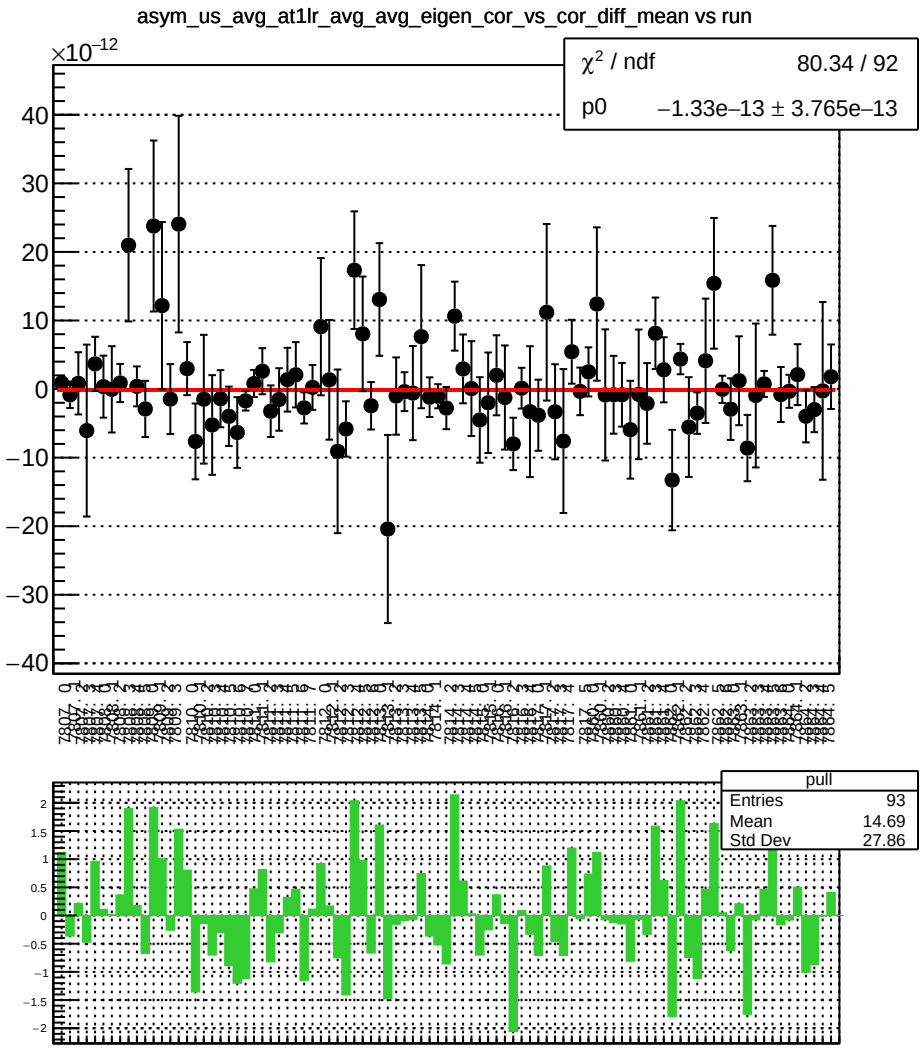

pull1D
Entries 93
Mean −0.01998
Std Dev 0.9528

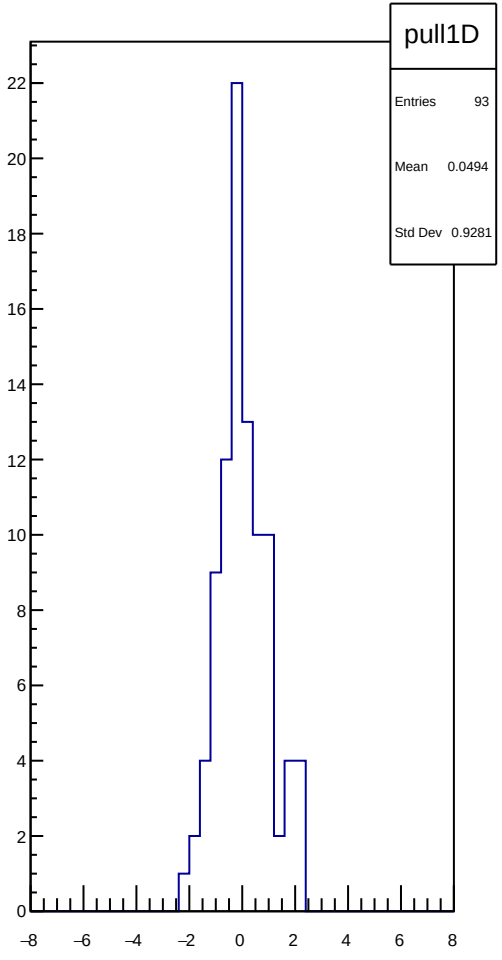

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.39e+05 / 92
p0 169.9 ± 0.1338
400
350
300
250
200
150
100

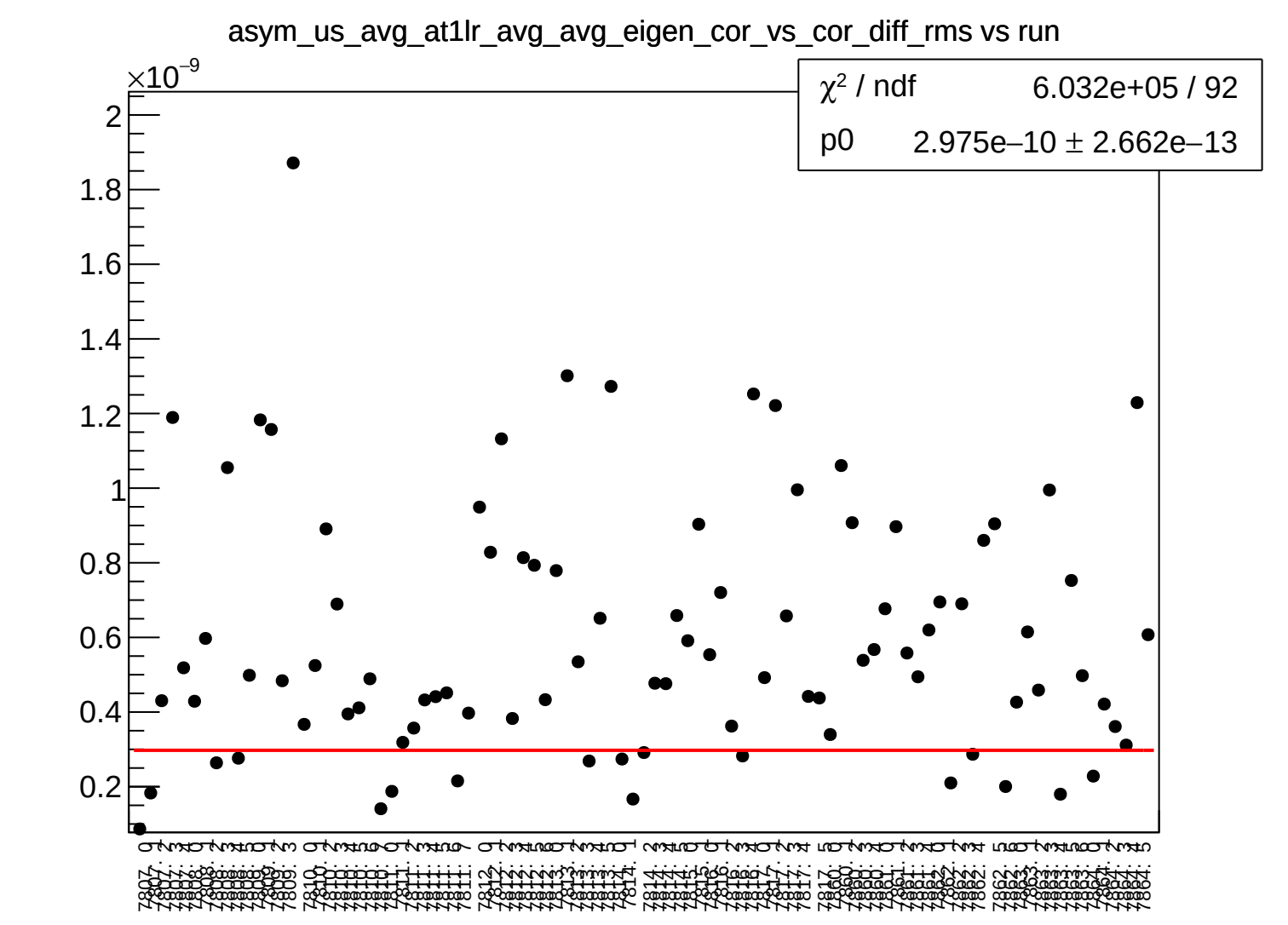

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.46 / 92
p0 −0.06342 ± 0.1892
pull
Entries 93
Mean −31.04
Std Dev 0

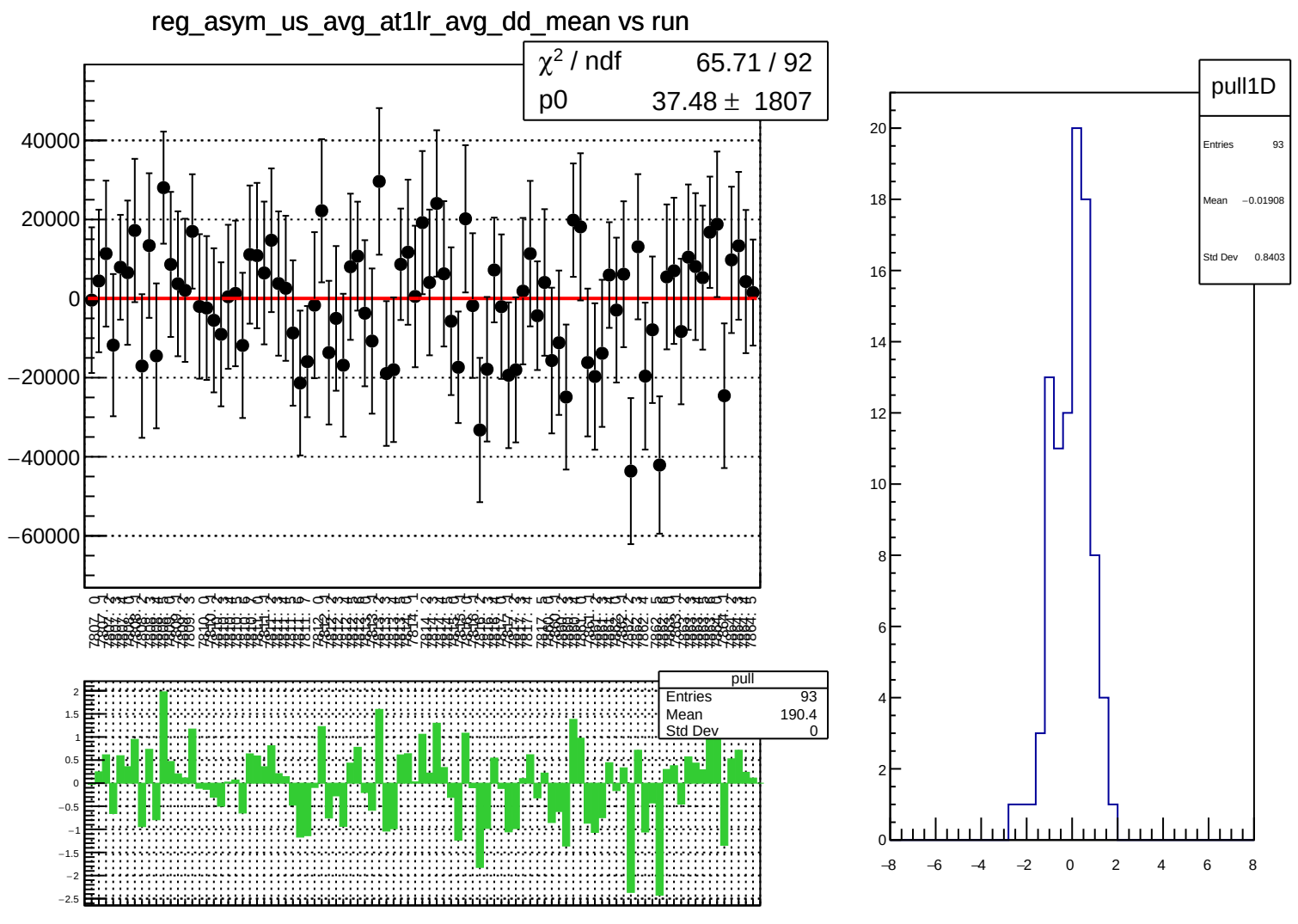

pull1D
Entries 93
Mean −0.01998
Std Dev 0.9528

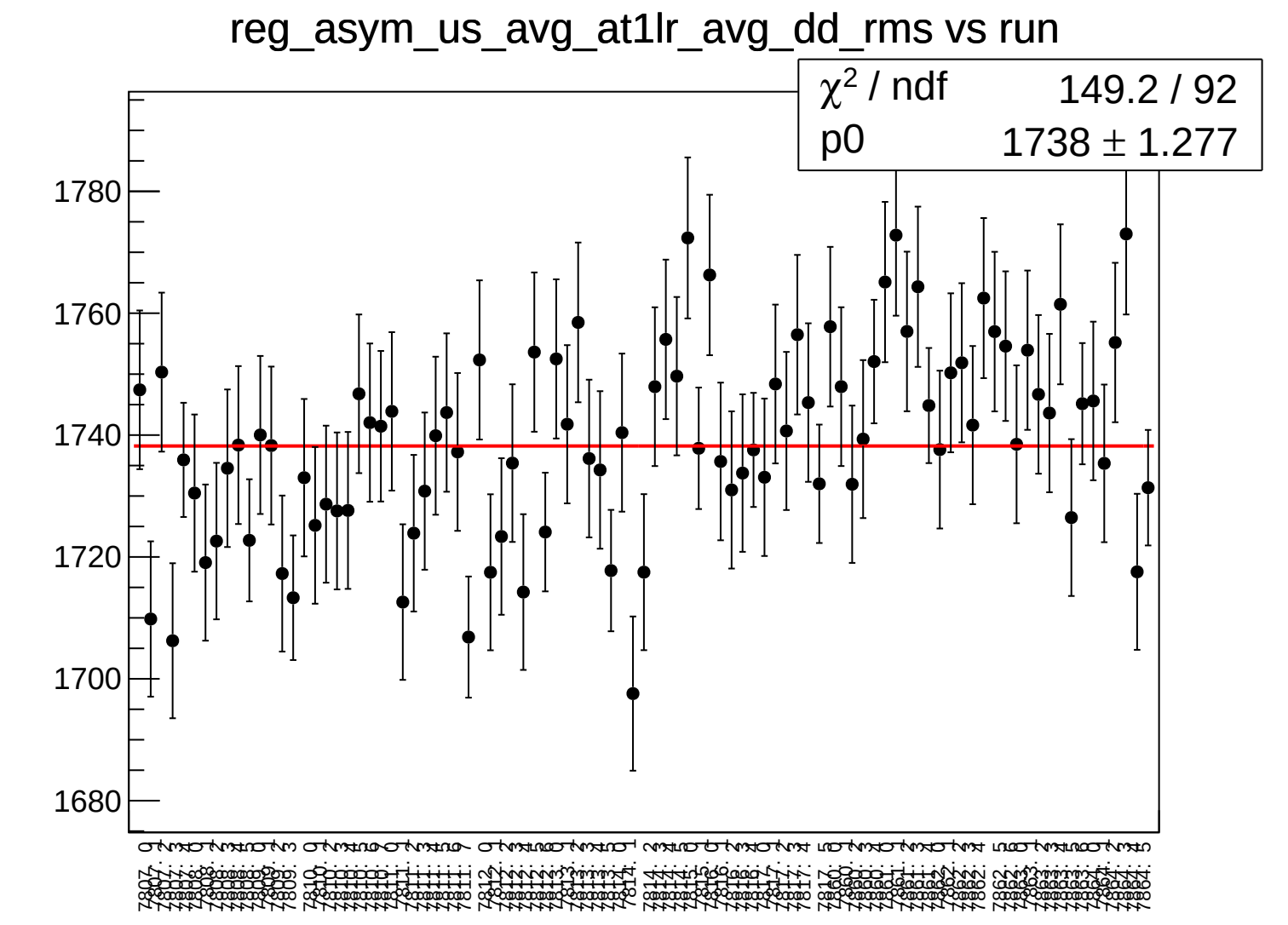

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.39e+05 / 92
p0 169.9 ± 0.1338
400
350
300
250
200
150
100

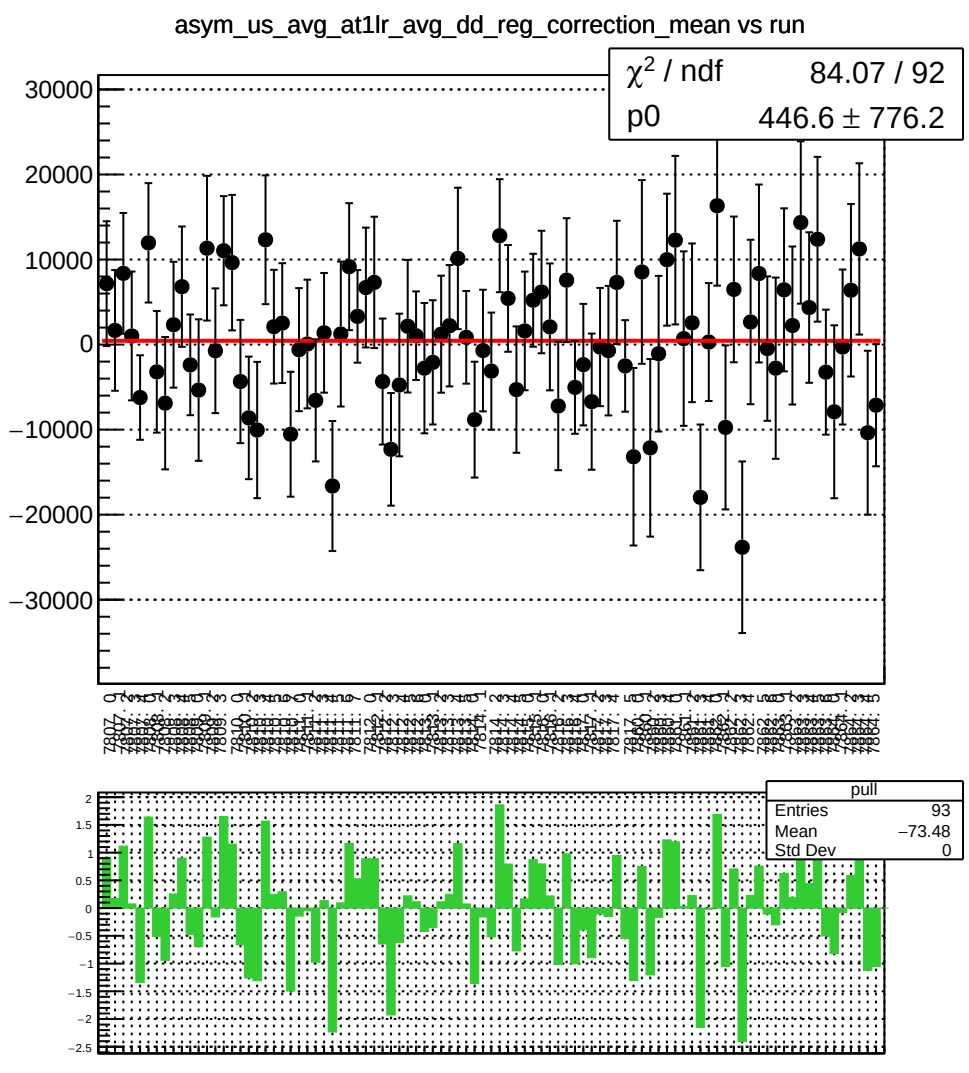

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.34 / 92
p0 −1.33e−13 ± 3.765e−13
pull
Entries 93
Mean 14.69
Std Dev 27.86

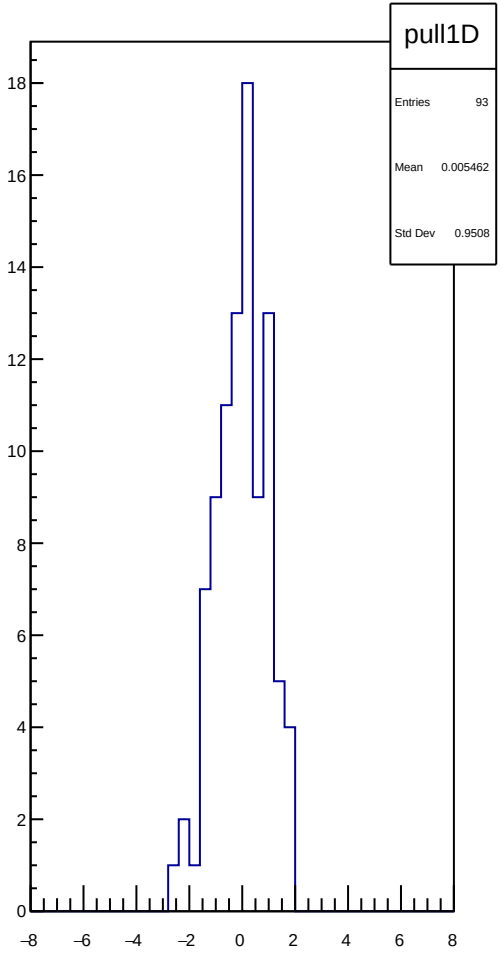

pull1D
Entries 93
Mean 0.0494
Std Dev 0.9281

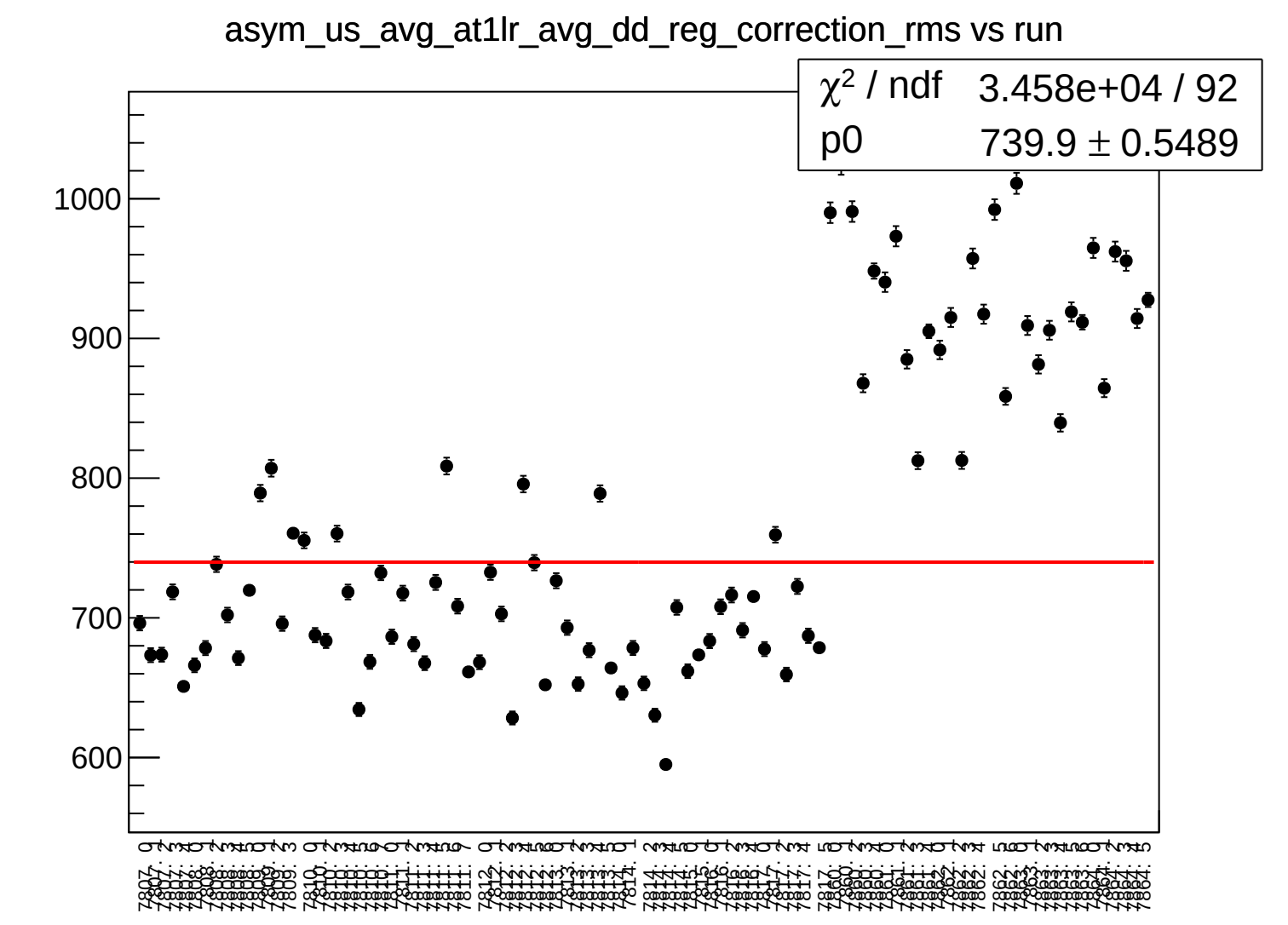

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.032e+05 / 92
p0 2.975e−10 ± 2.662e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

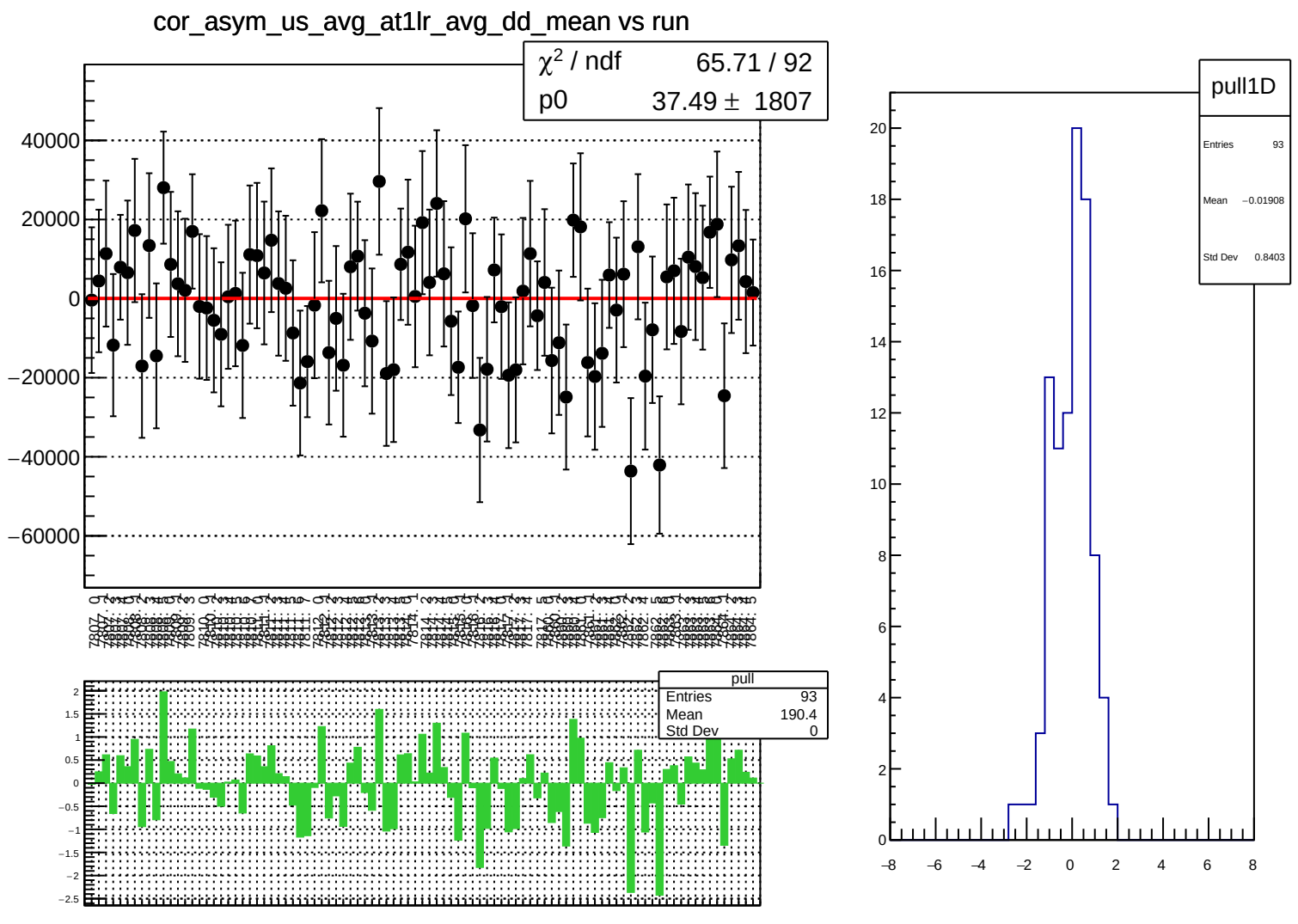

reg_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 65.71 / 92
p0 37.48 ± 1807
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 190.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 93
Mean −0.01908
Std Dev 0.8403
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

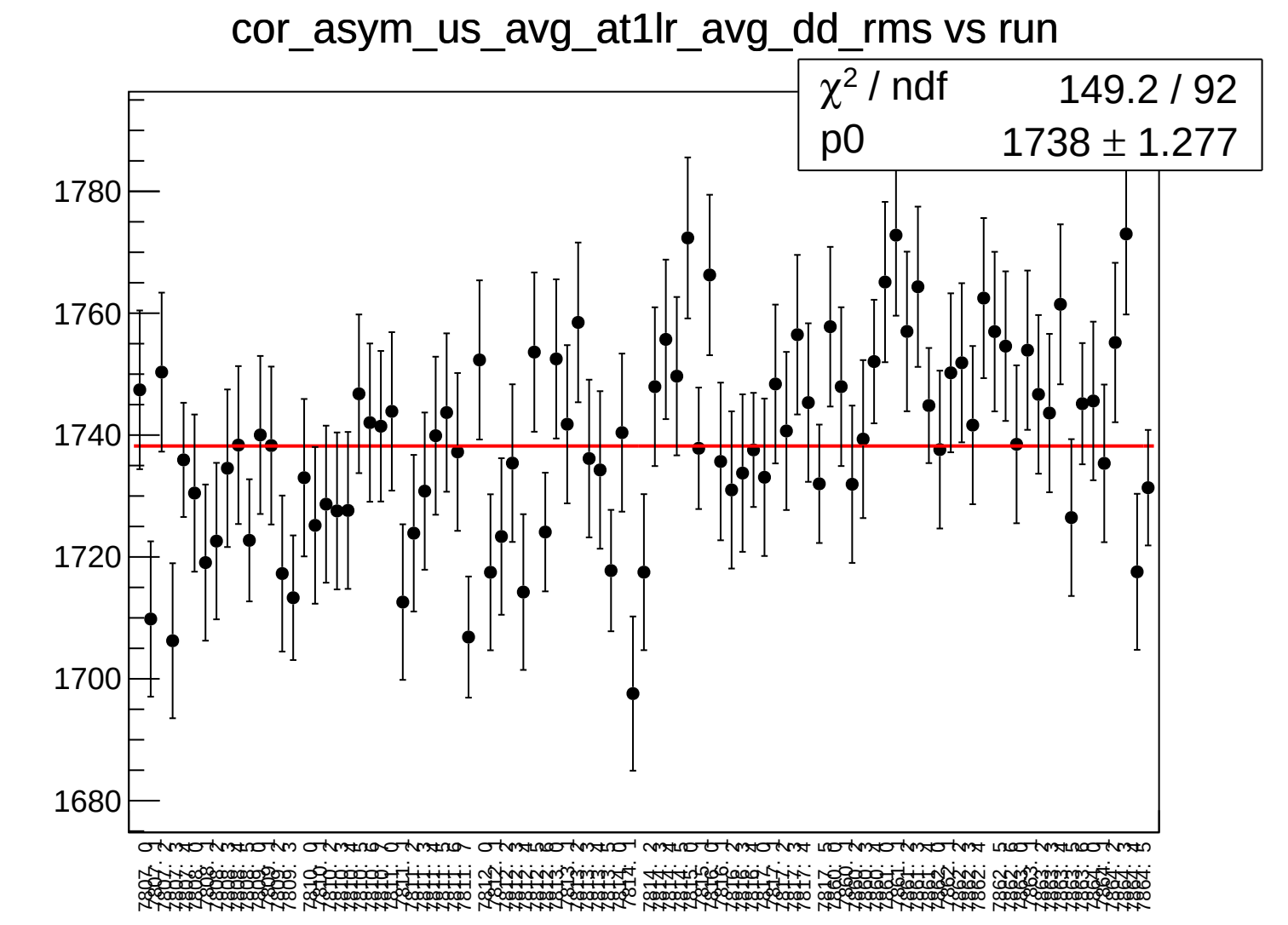

reg_asym_us_avg_at1lr_avg_dd_rms vs run
χ^2 / ndf 149.2 / 92
p0 1738 ± 1.277
1780
1760
1740
1720
1700
1680

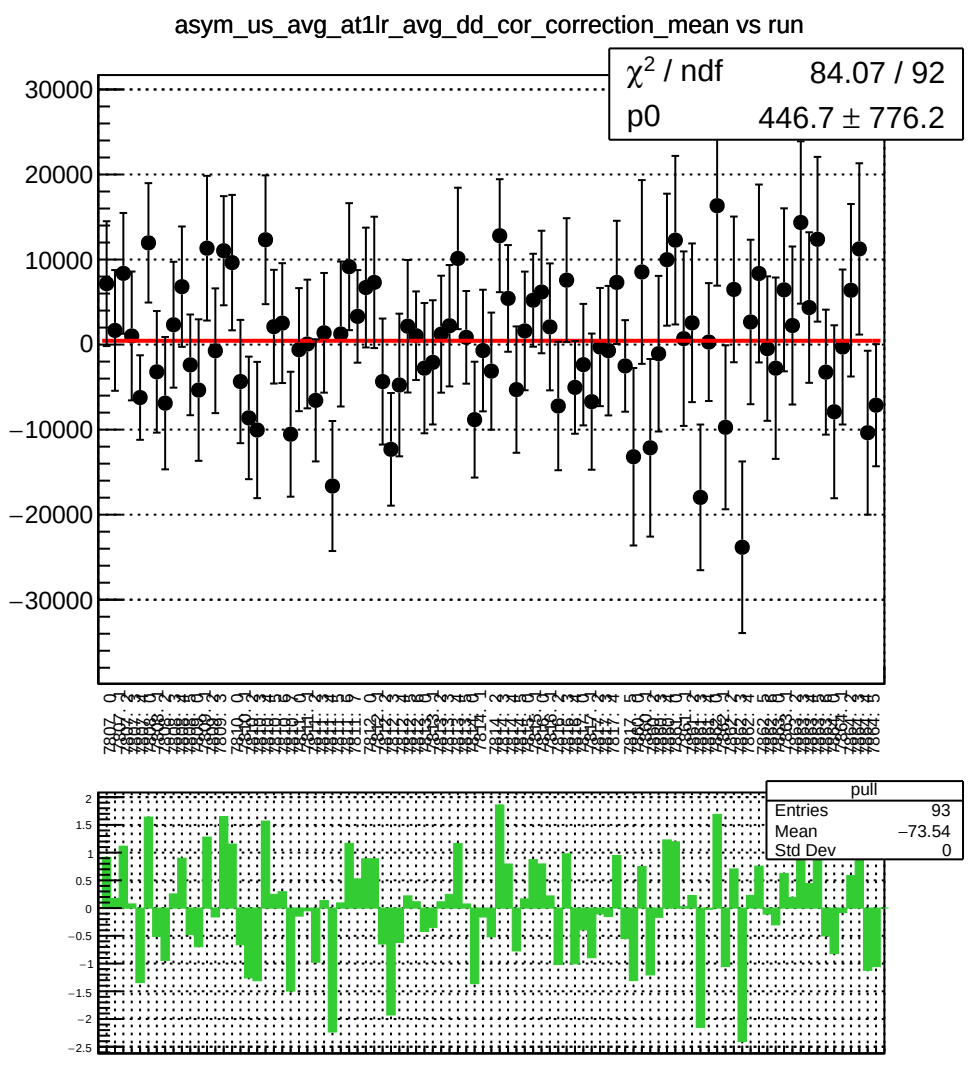

asym_us_avg_at1lr_avg_dd_reg_correction_mean vs run
χ² / ndf 84.07 / 92
p0 446.6 ± 776.2
pull
Entries 93
Mean −73.48
Std Dev 0

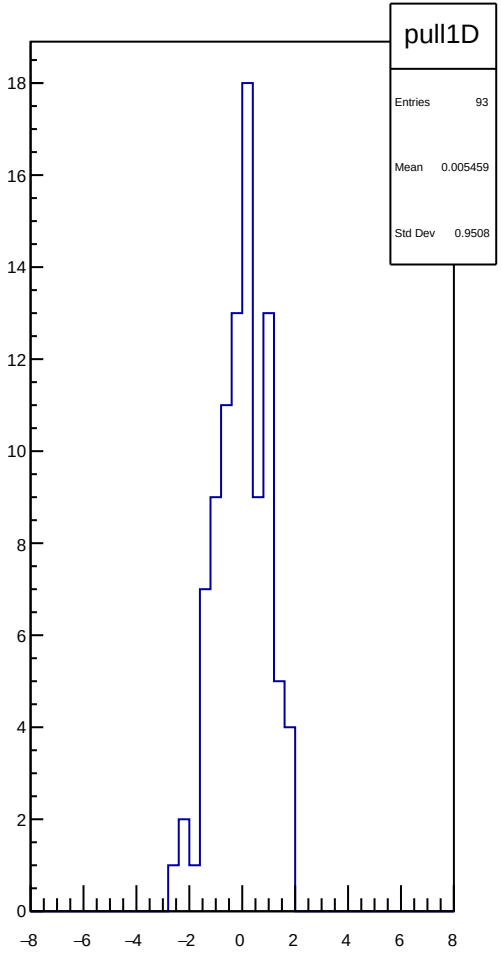

pull1D
Entries 93
Mean 0.005462
Std Dev 0.9508

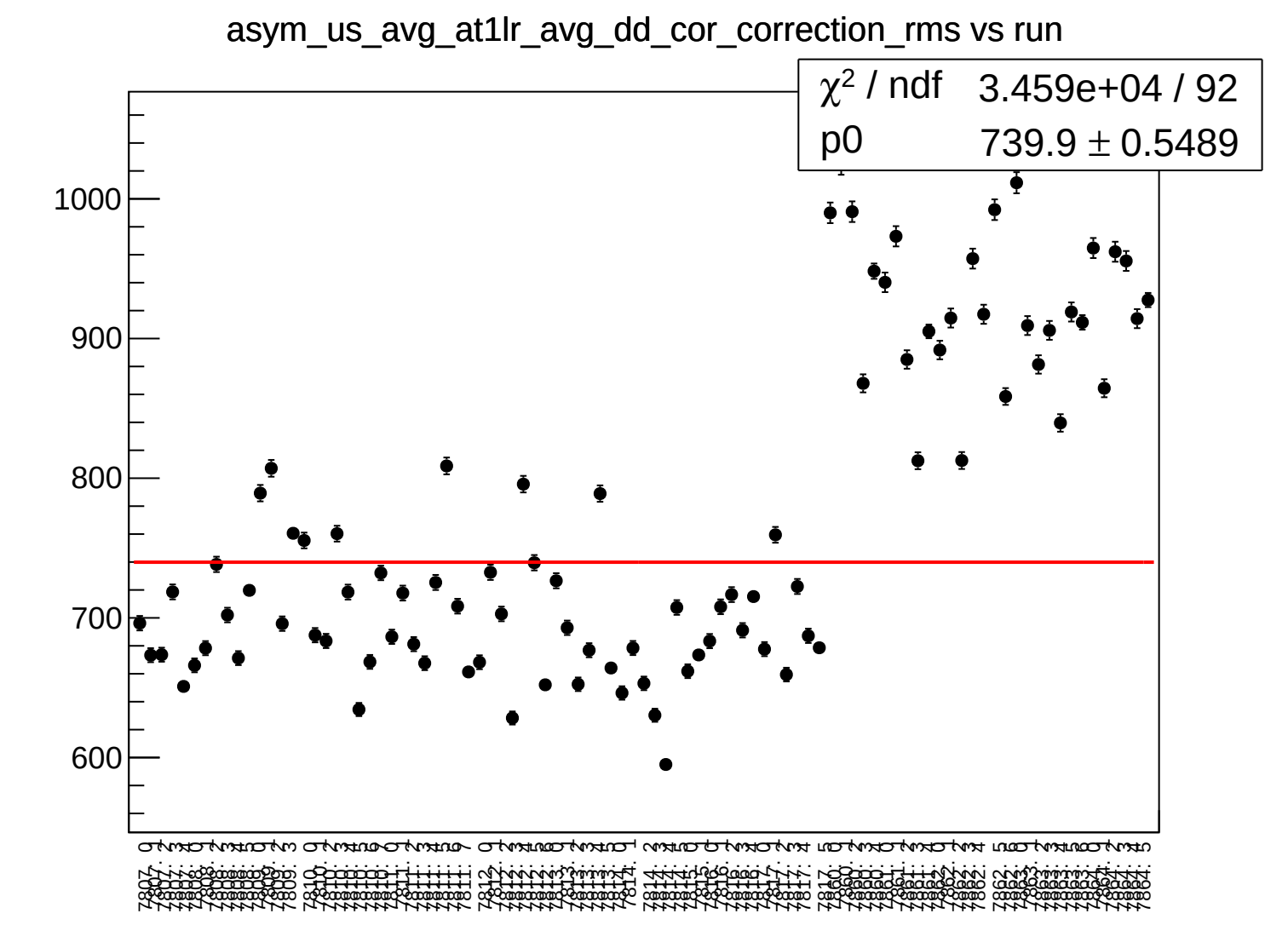

asym_us_avg_at1lr_avg_dd_reg_correction_rms vs run
χ² / ndf 3.458e+04 / 92
p0 739.9 ± 0.5489
1000
900
800
700
600

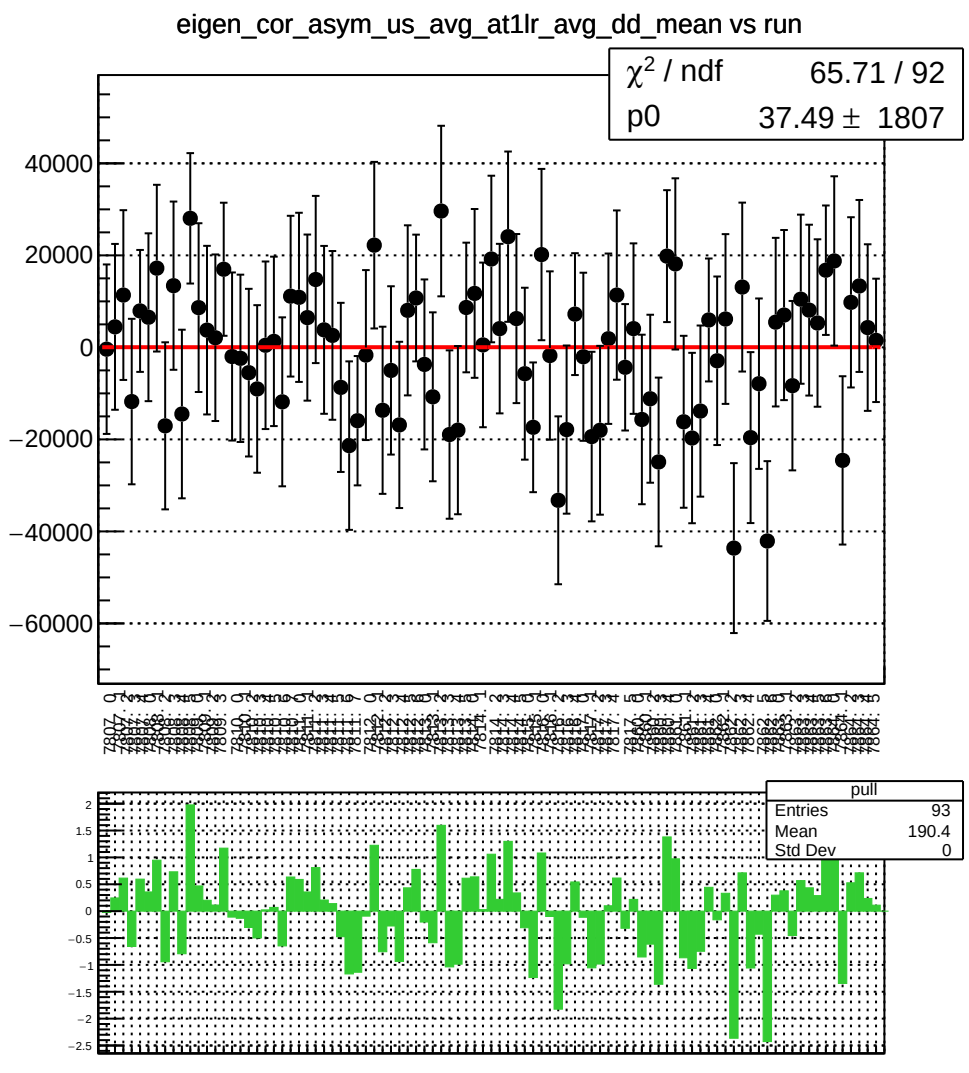

cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 65.71 / 92
p0 37.49 ± 1807
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 190.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 93
Mean −0.01908
Std Dev 0.8403
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

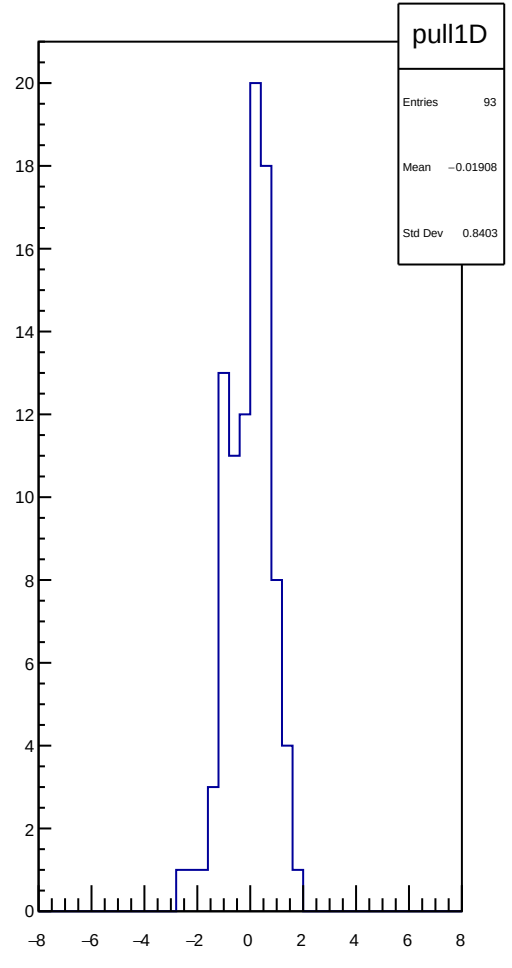

cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ^2 / ndf 149.2 / 92
p0 1738 ± 1.277
1780
1760
1740
1720
1700
1680

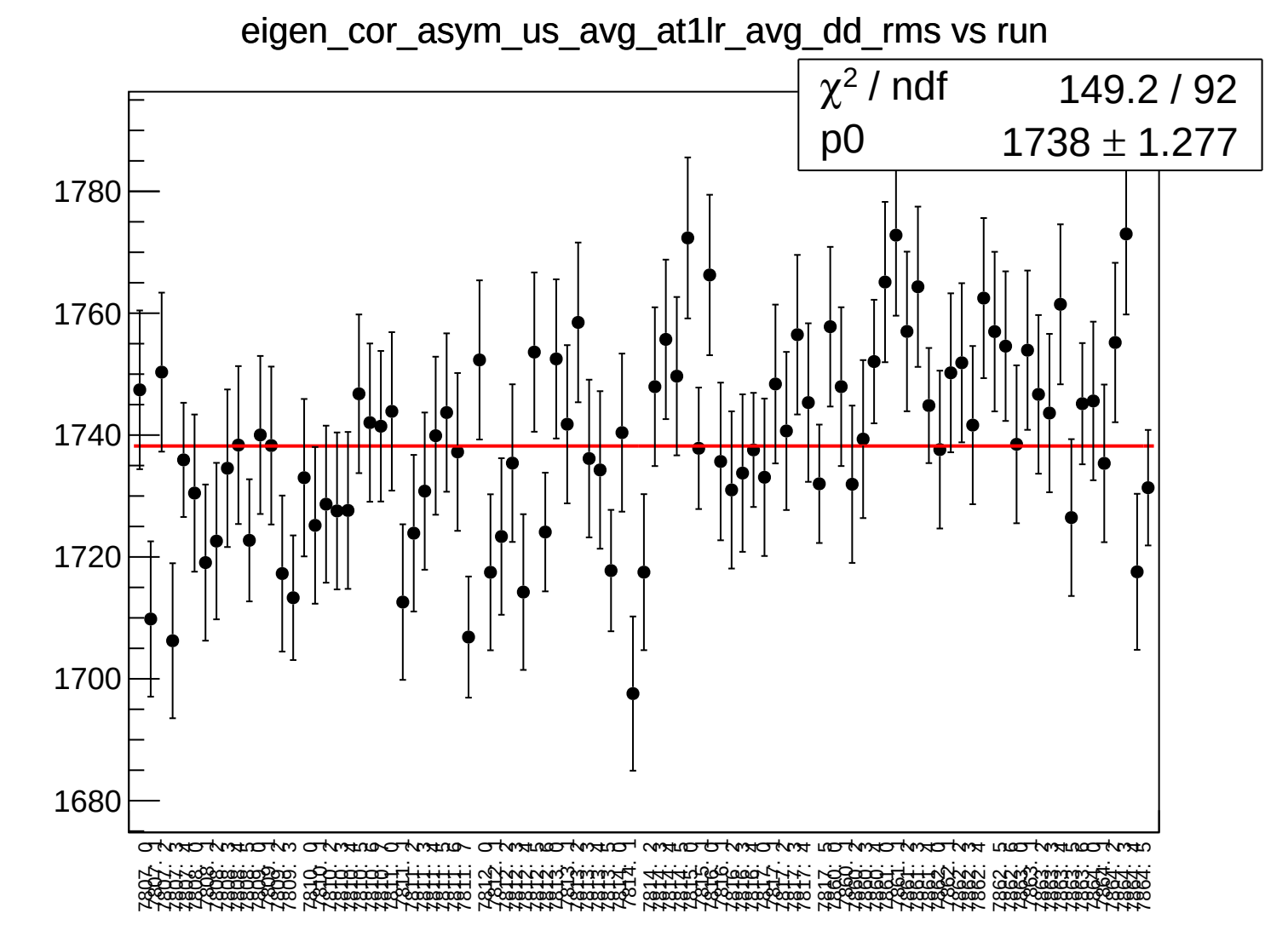

asym_us_avg_at1lr_avg_dd_cor_correction_mean vs run
χ² / ndf 84.07 / 92
p0 446.7 ± 776.2
pull
Entries 93
Mean −73.54
Std Dev 0

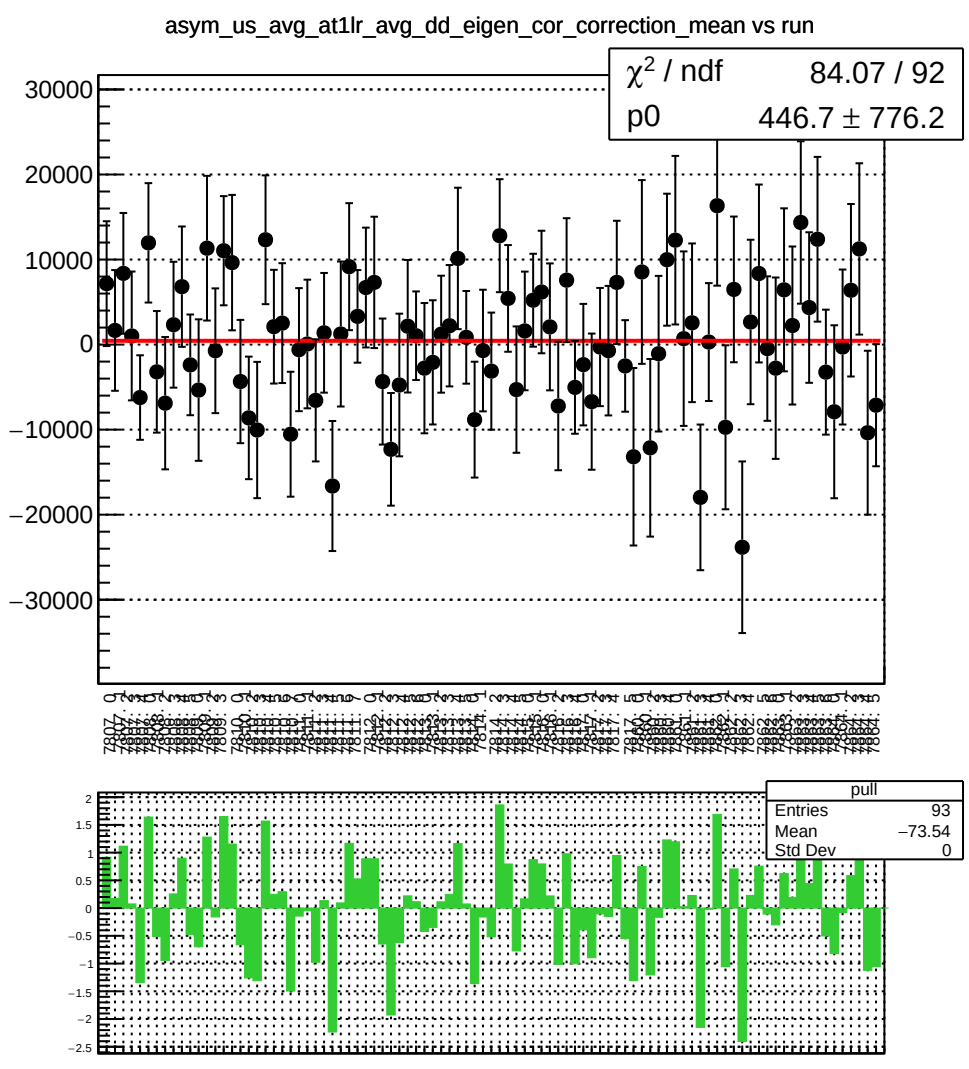

pull1D
Entries 93
Mean 0.005459
Std Dev 0.9508

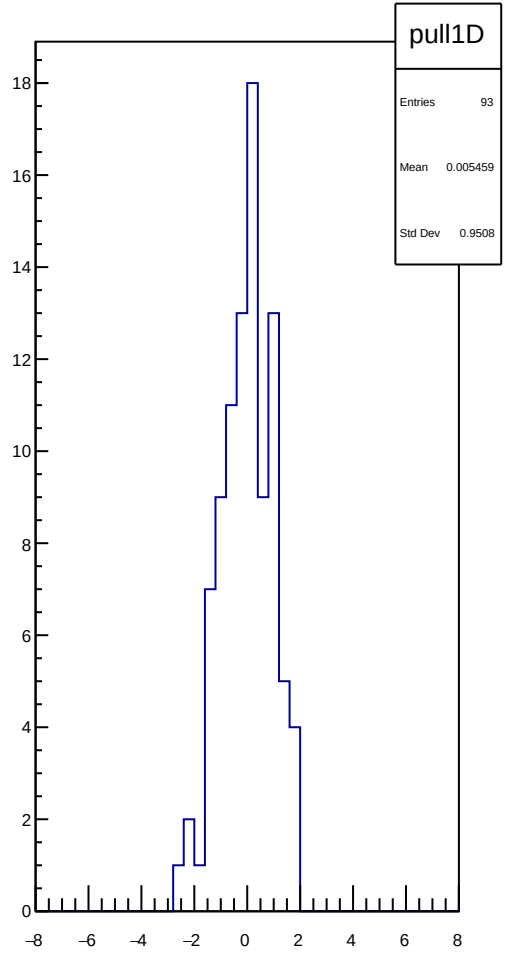

asym_us_avg_at1lr_avg_dd_cor_correction_rms vs run
χ² / ndf 3.459e+04 / 92
p0 739.9 ± 0.5489
1000
900
800
700
600

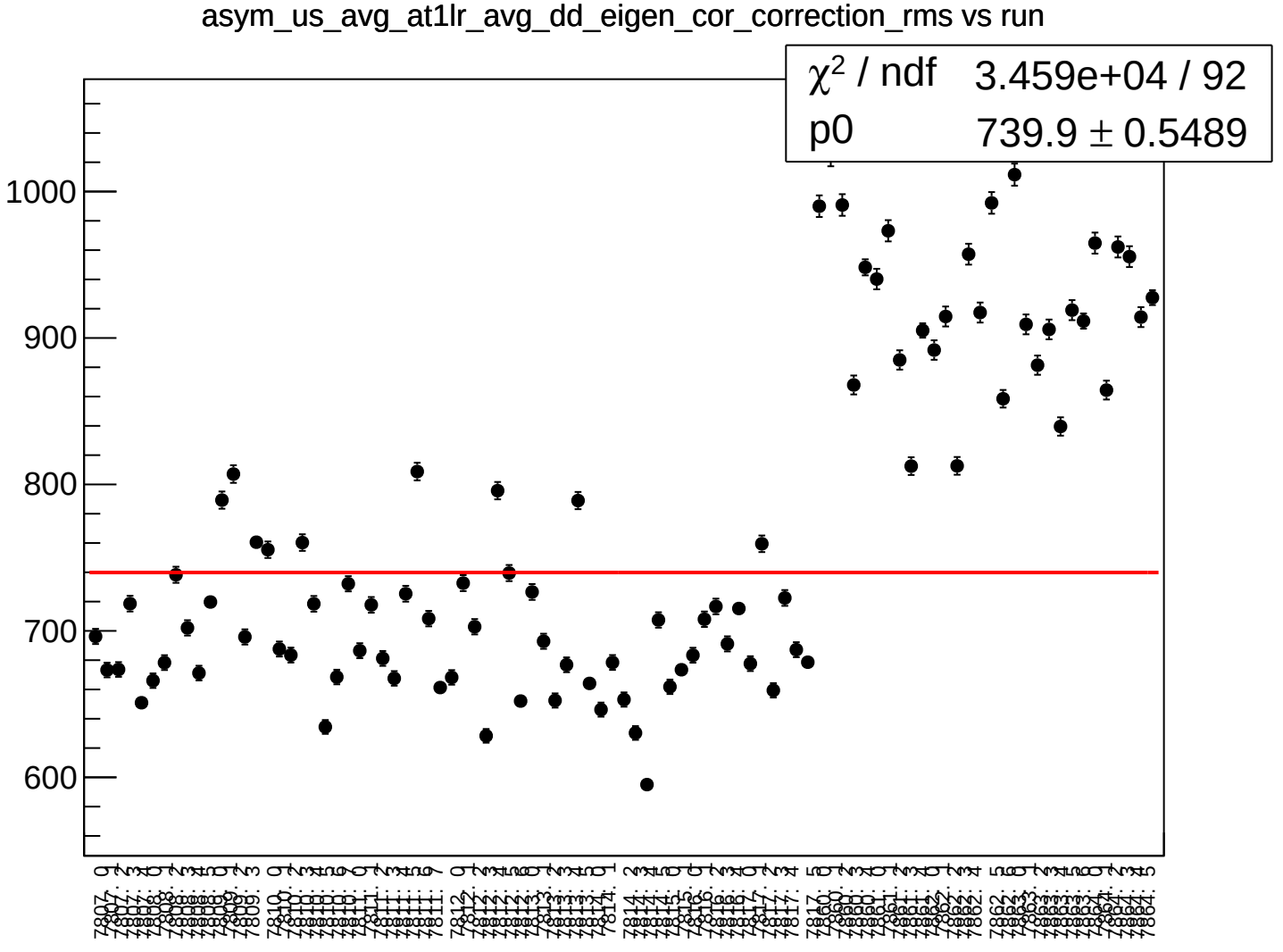

eigen_cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 65.71 / 92
p0 37.49 ± 1807
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 190.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

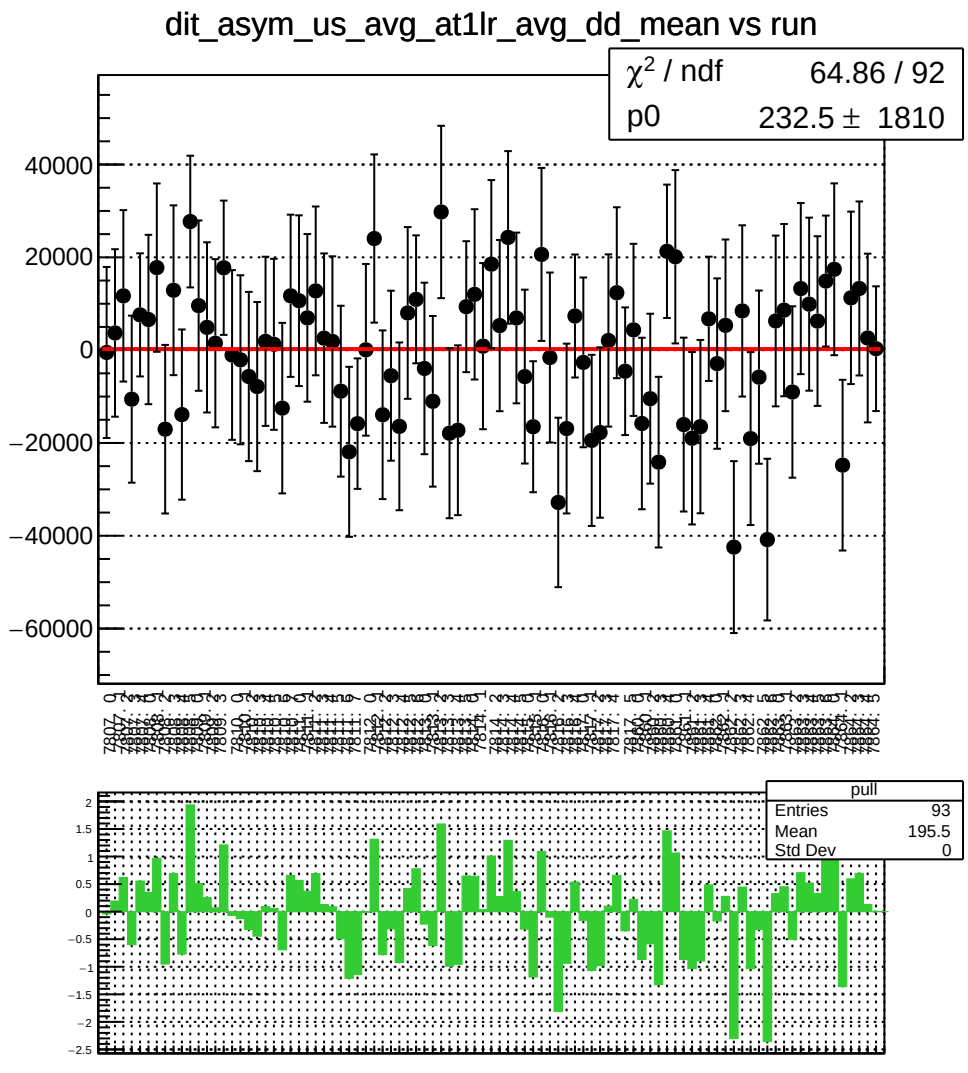

pull1D
Entries 93
Mean −0.01908
Std Dev 0.8403
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

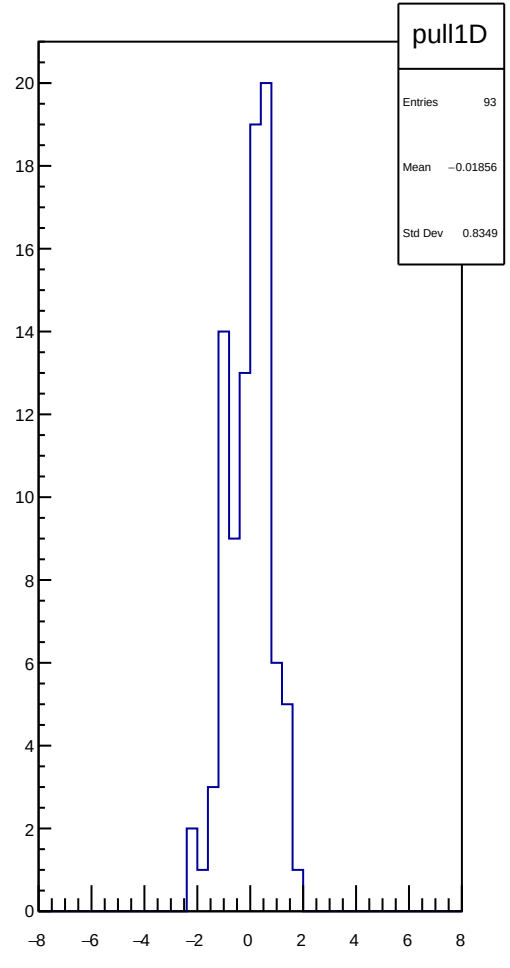

eigen_cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 149.2 / 92
p0 1738 ± 1.277
1780
1760
1740
1720
1700
1680

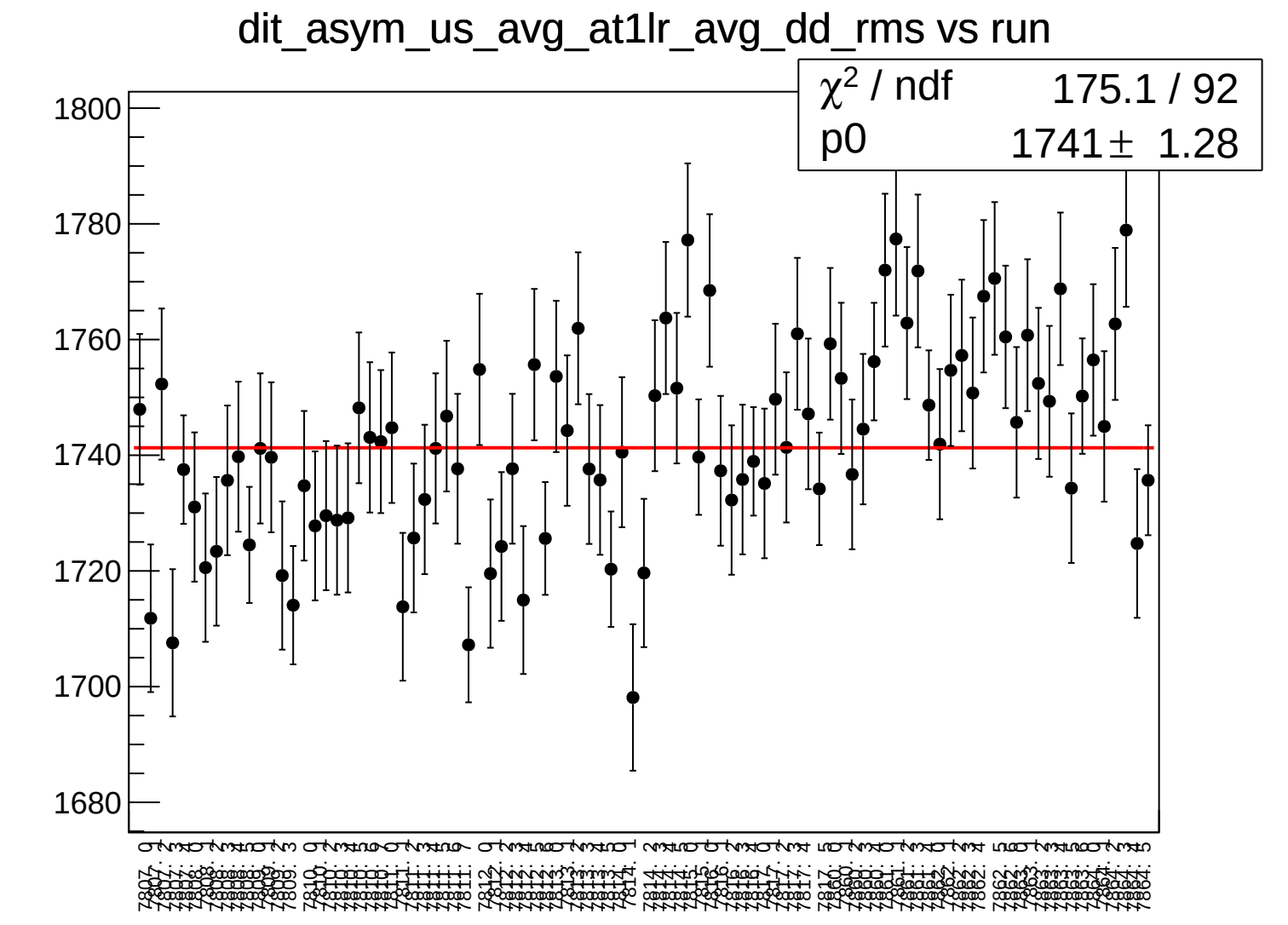

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 84.07 / 92
p0 446.7 ± 776.2
pull
Entries 93
Mean −73.54
Std Dev 0

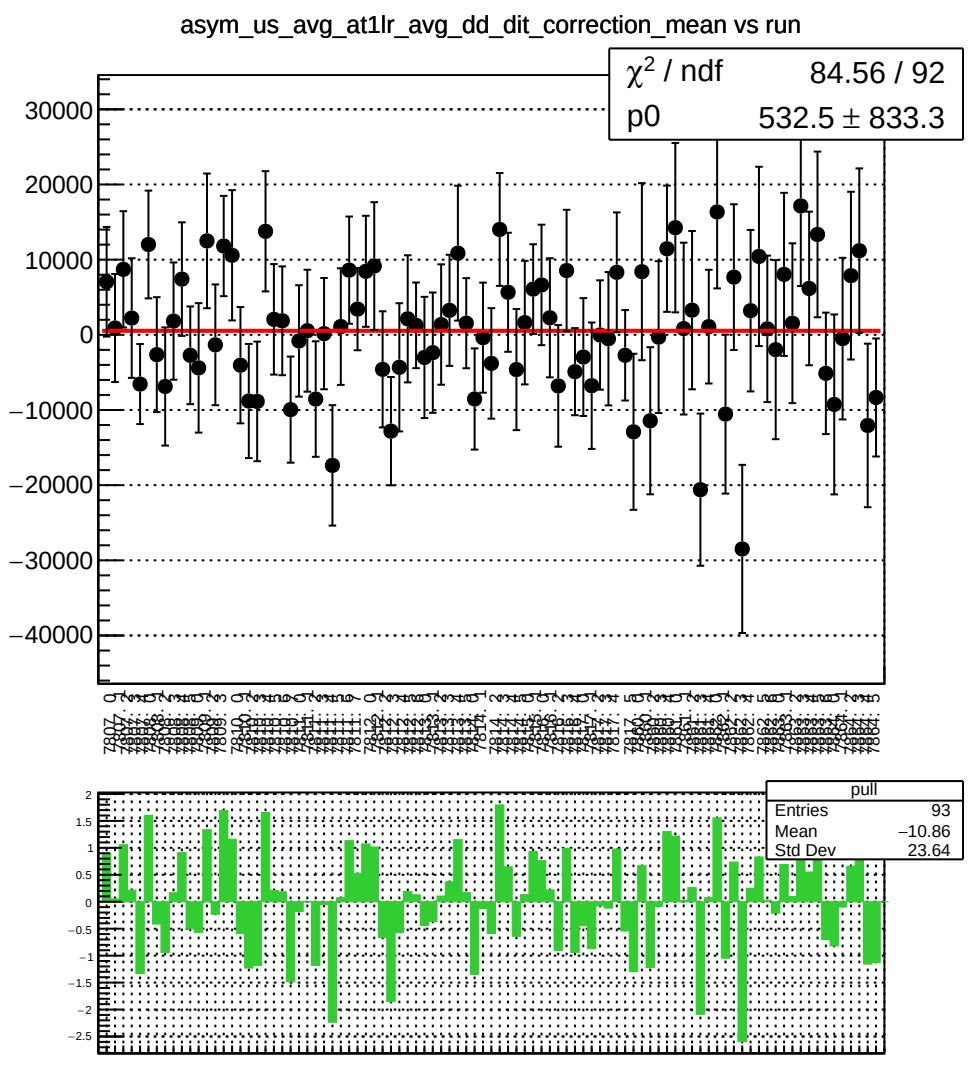

pull1D
Entries 93
Mean 0.005459
Std Dev 0.9508

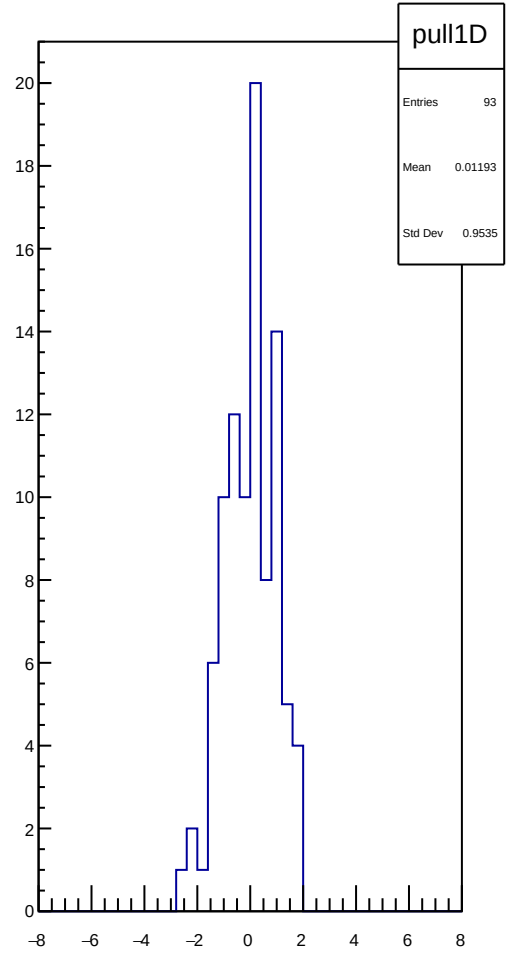

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.459e+04 / 92
p0 739.9 ± 0.5489
1000
900
800
700
600

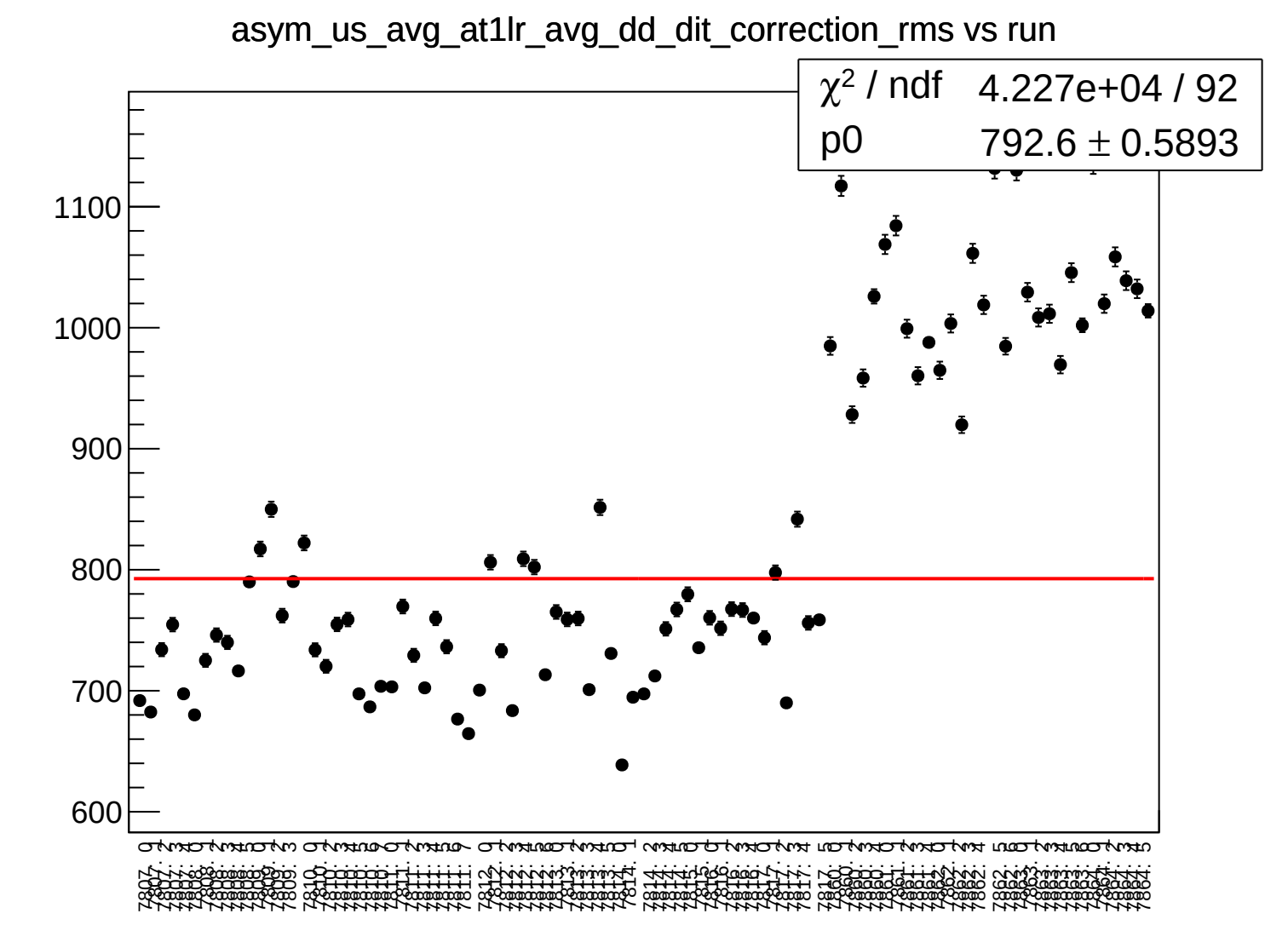

dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 64.86 / 92
p0 232.5 ± 1810
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 195.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

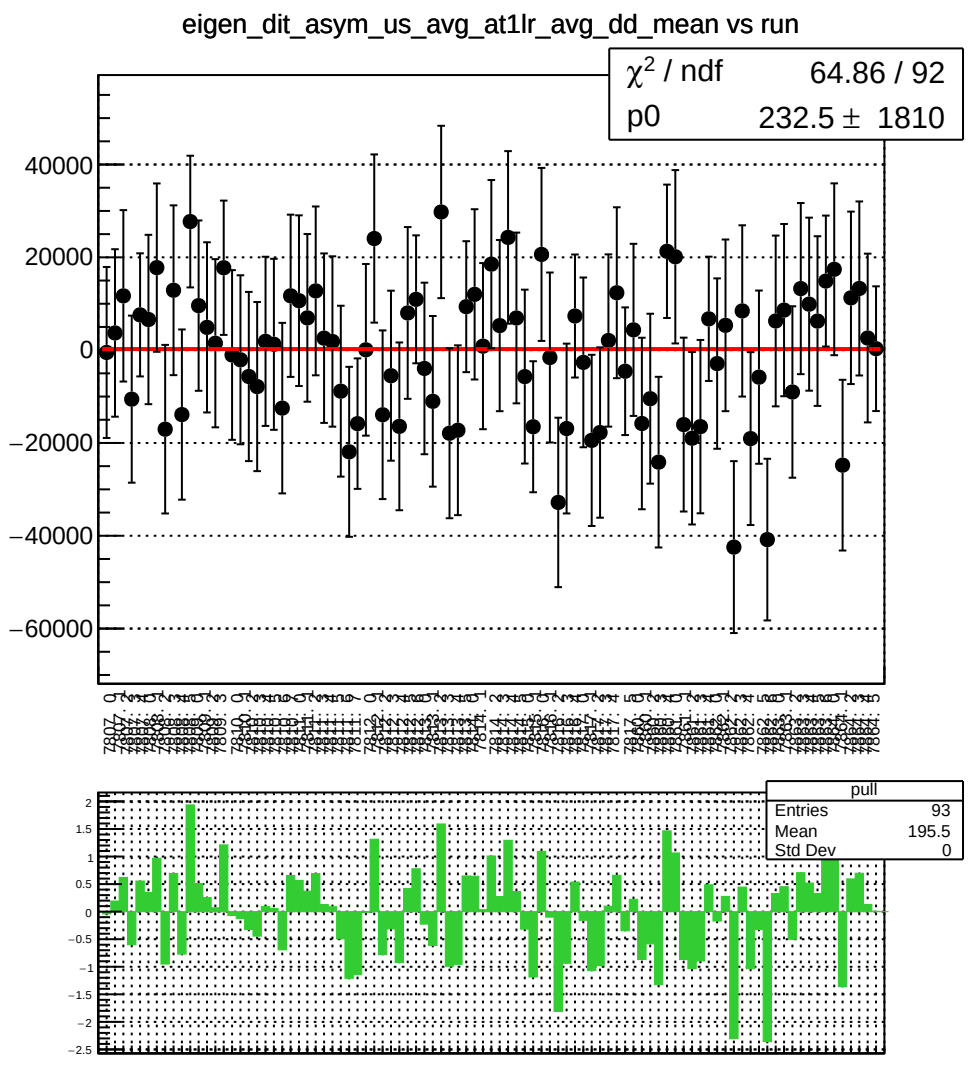

pull1D
Entries 93
Mean −0.01856
Std Dev 0.8349
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

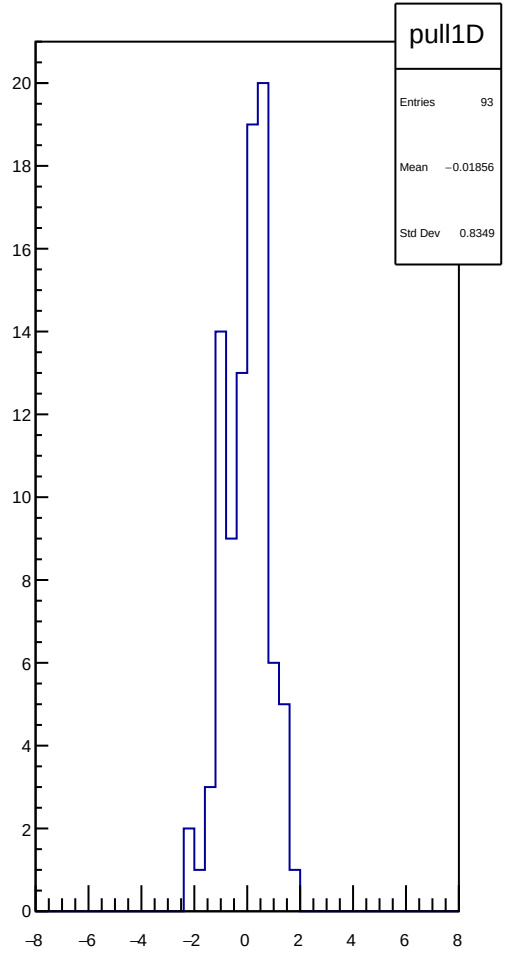

dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 175.1 / 92
p0 1741 ± 1.28
1800
1780
1760
1740
1720
1700
1680

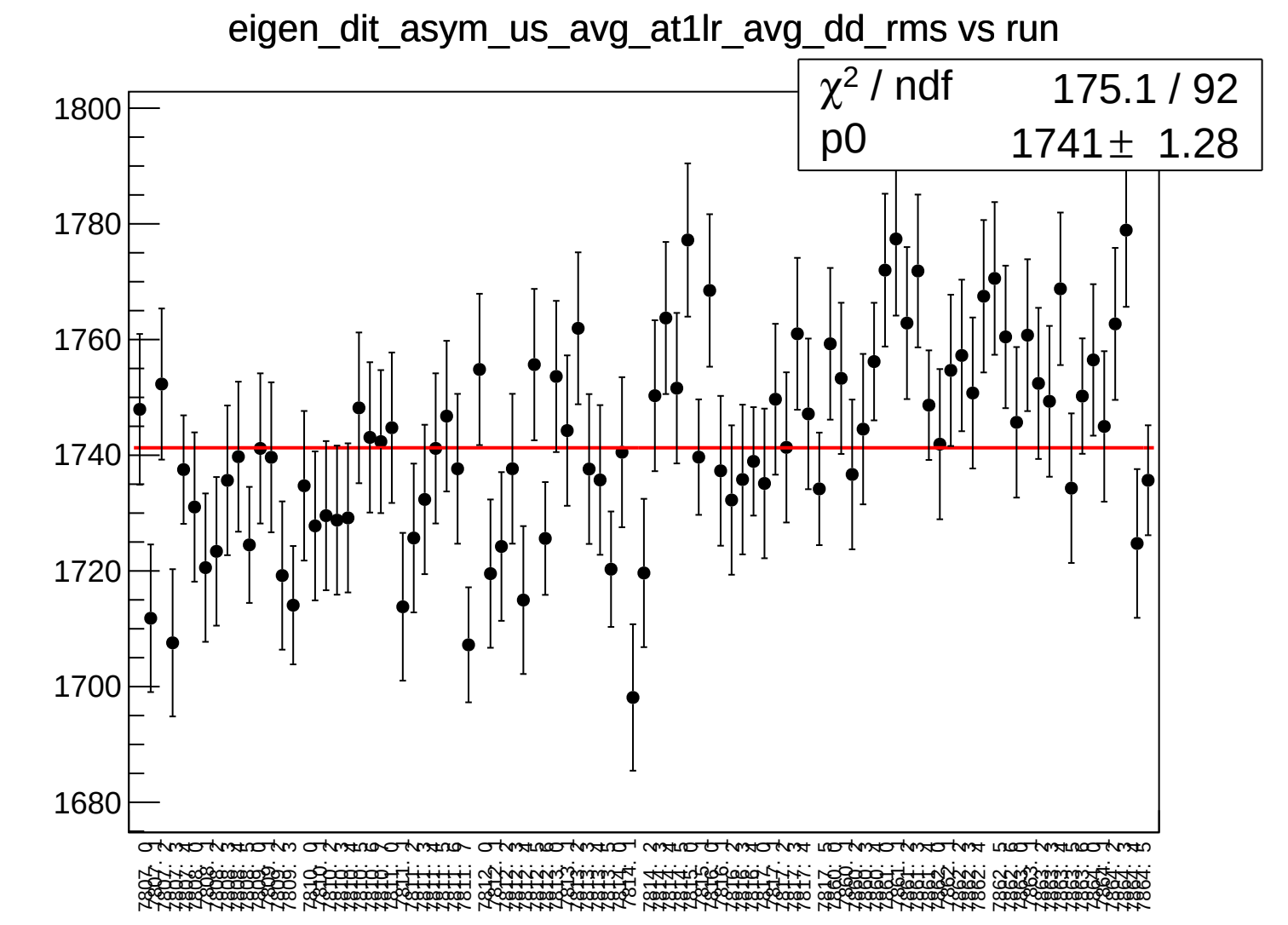

asym_us_avg_at1lr_avg_dd_dit_correction_mean vs run
χ² / ndf 84.56 / 92
p0 532.5 ± 833.3
pull
Entries 93
Mean −10.86
Std Dev 23.64

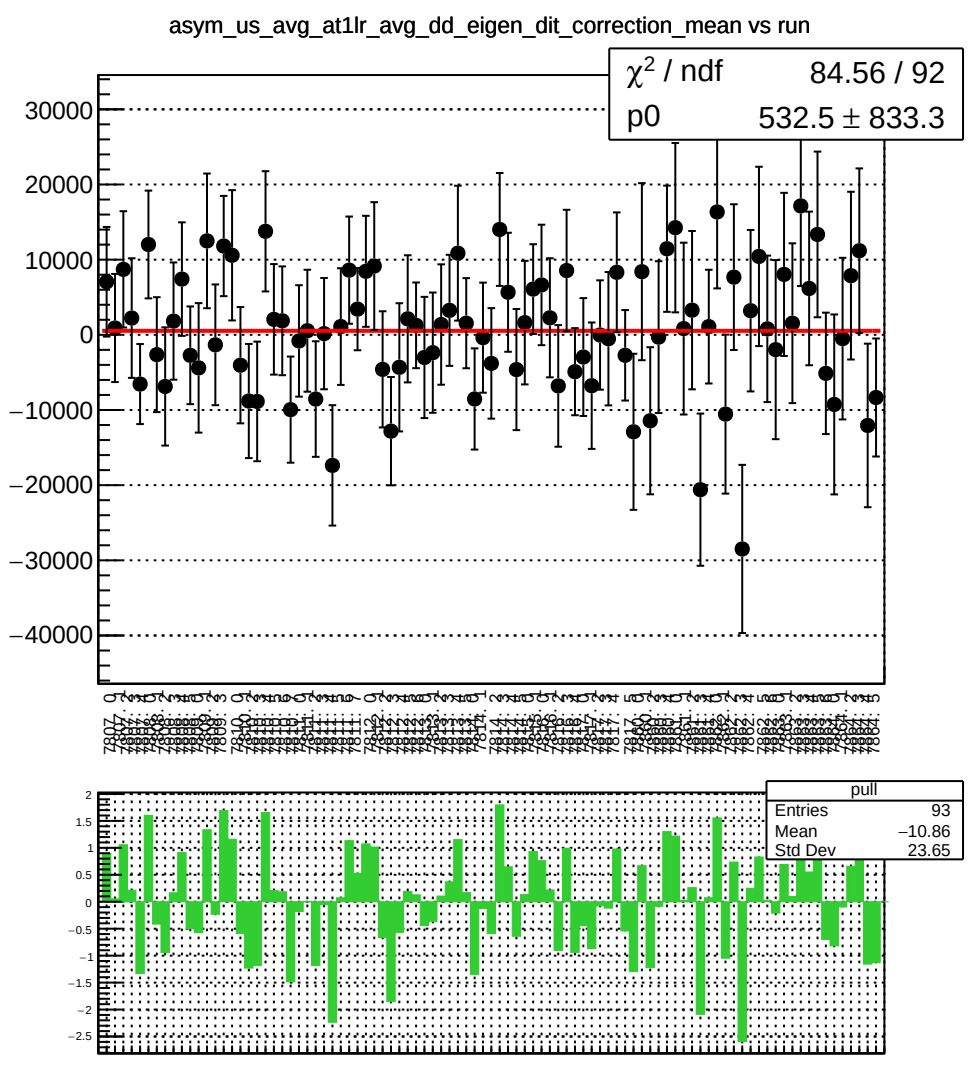

pull1D
Entries 93
Mean 0.01193
Std Dev 0.9535

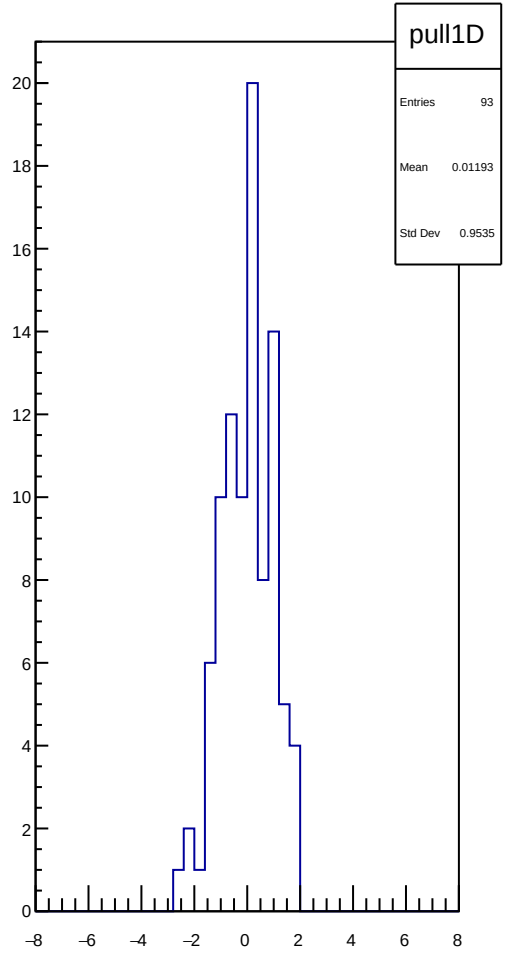

asym_us_avg_at1lr_avg_dd_dit_correction_rms vs run
χ² / ndf 4.227e+04 / 92
p0 792.6 ± 0.5893
1100
1000
900
800
700
600

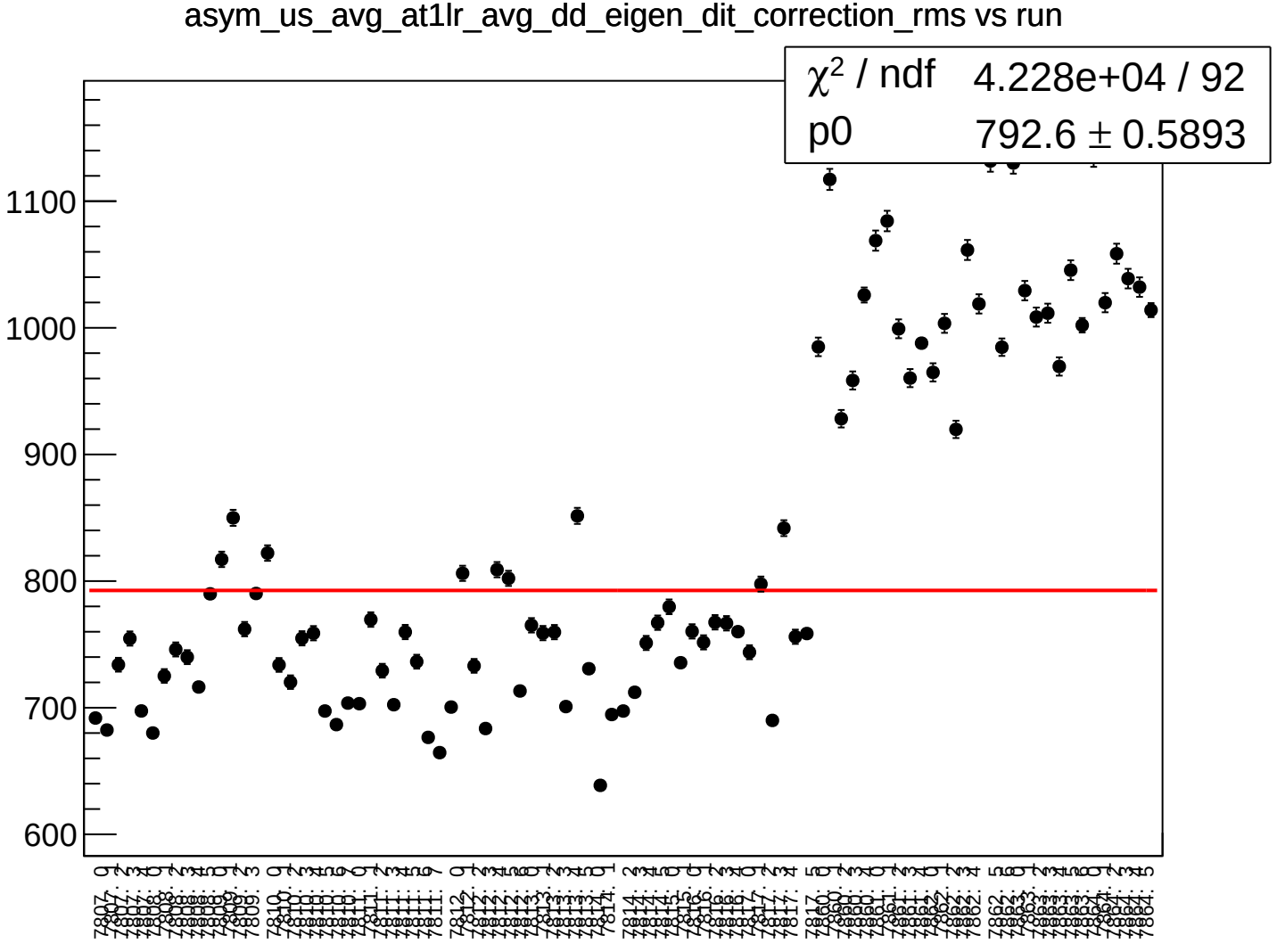

eigen_dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 64.86 / 92
p0 232.5 ± 1810
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 195.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

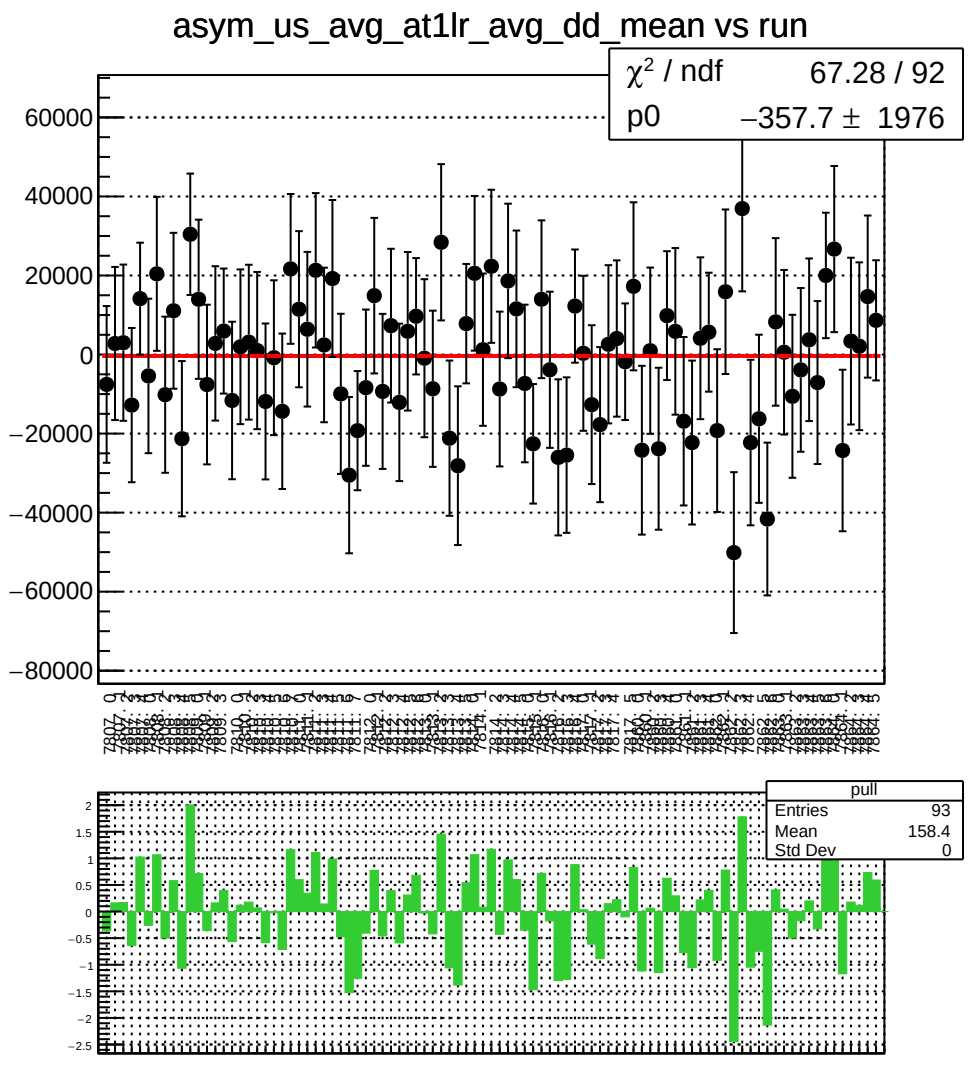

pull1D
Entries 93
Mean −0.01856
Std Dev 0.8349
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

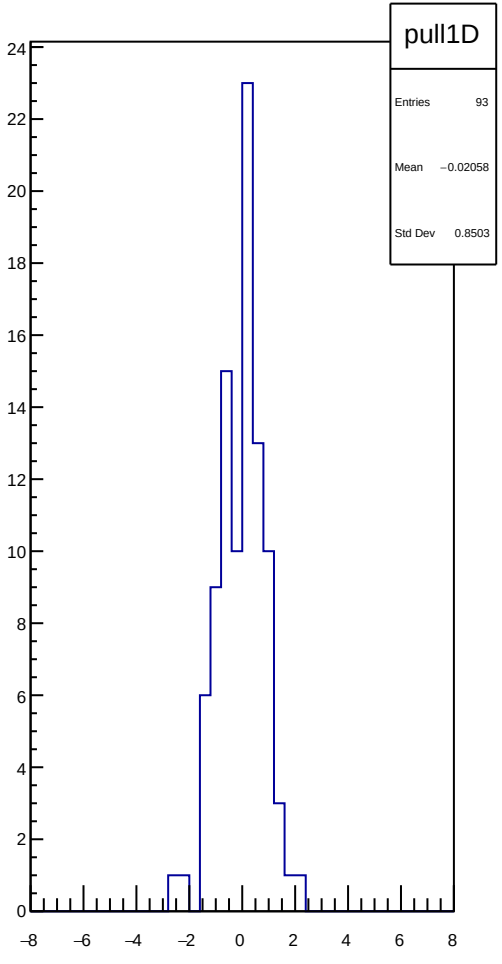

eigen_dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 175.1 / 92
p0 1741 ± 1.28
1800
1780
1760
1740
1720
1700
1680

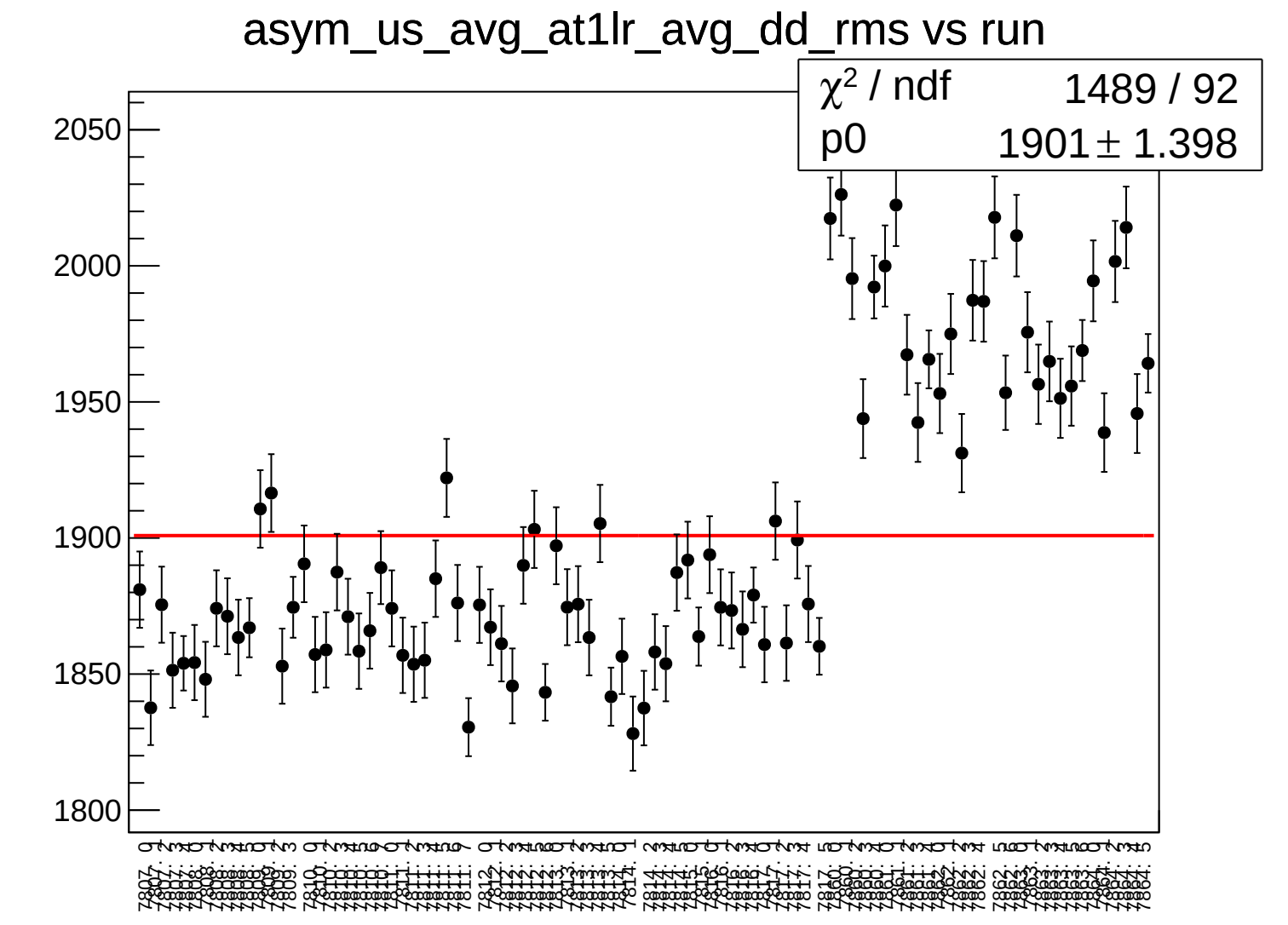

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 84.56 / 92
p0 532.5 ± 833.3
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean −10.86
Std Dev 23.65
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

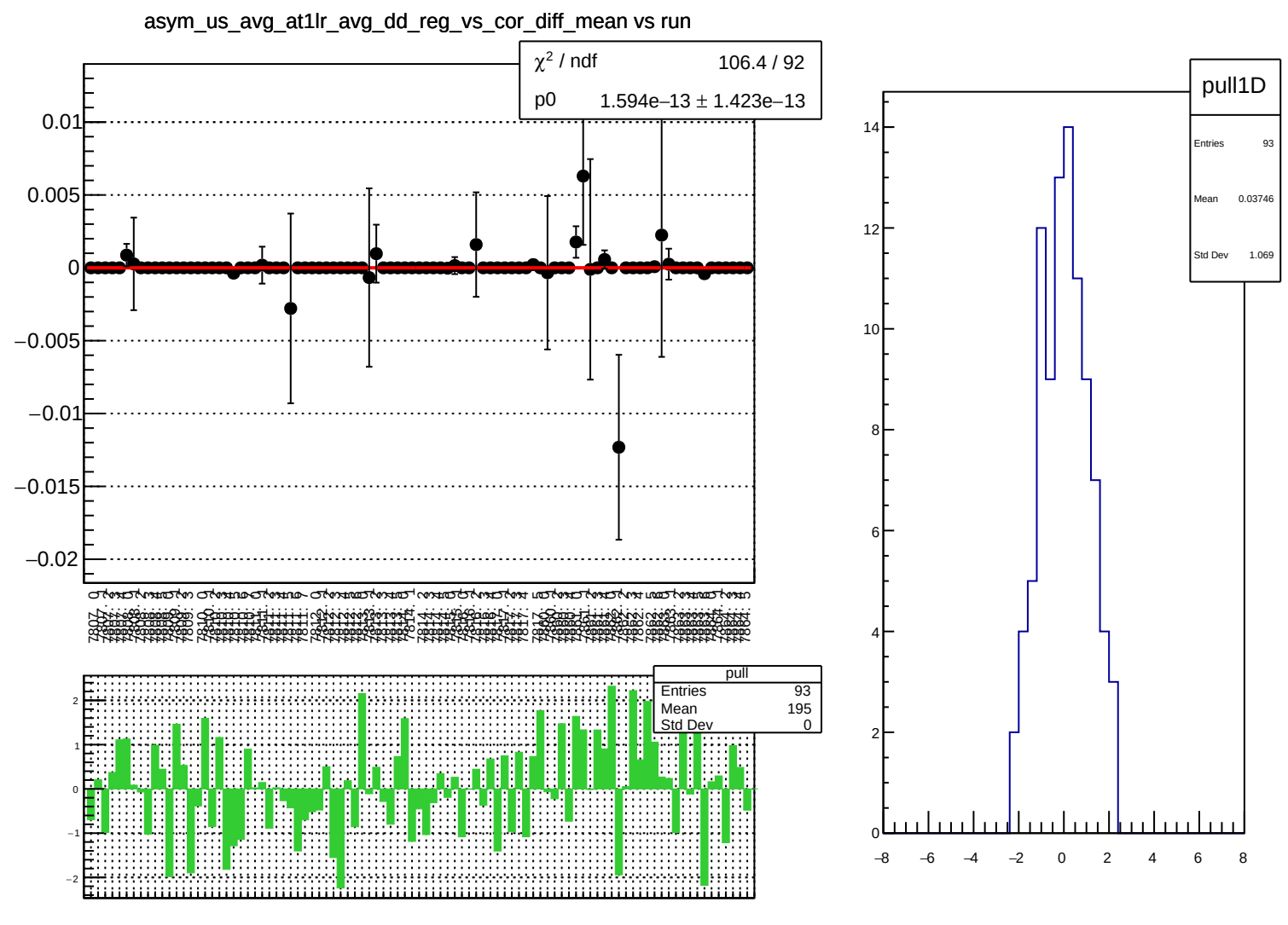

pull1D
Entries 93
Mean 0.01193
Std Dev 0.9535
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

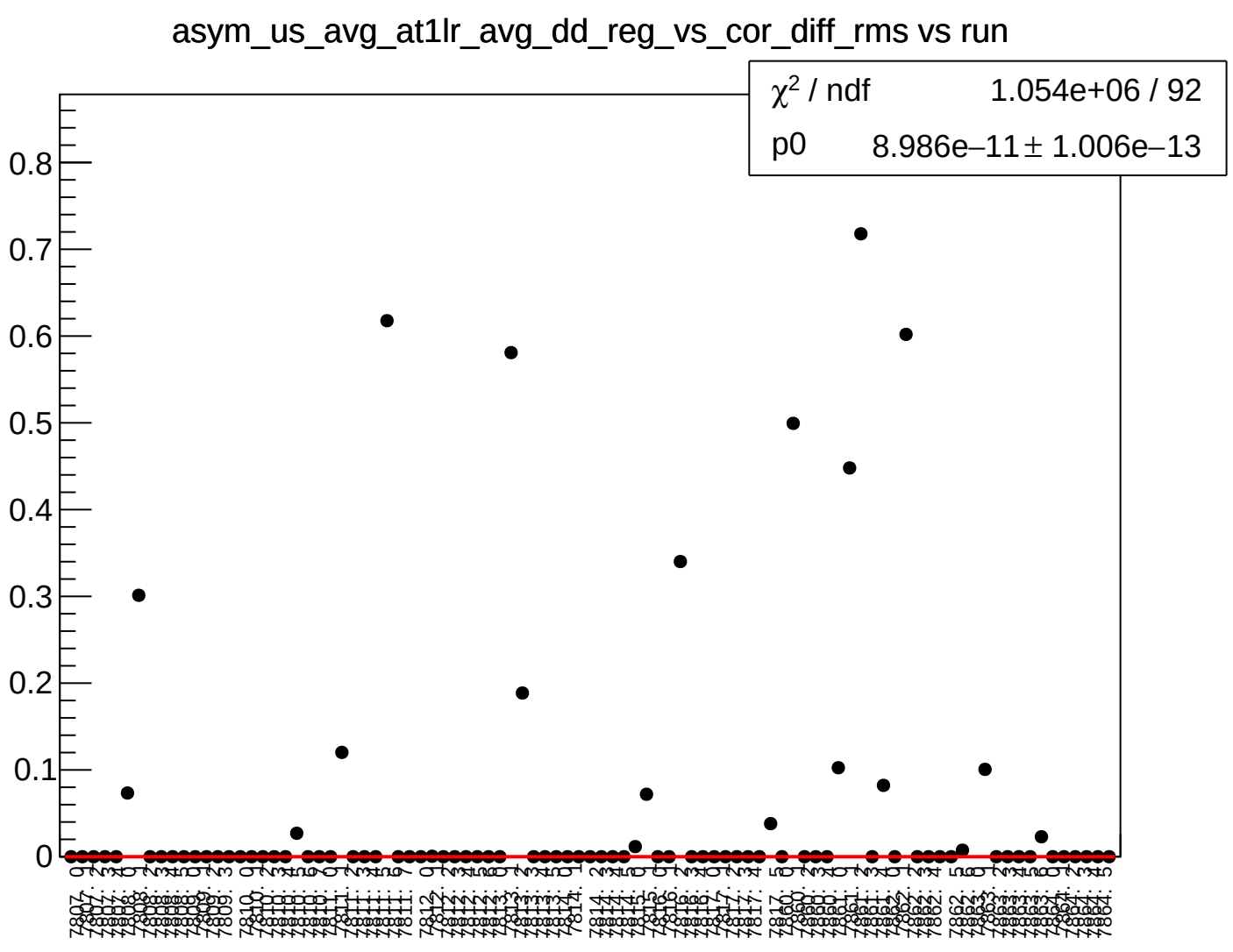

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 4.228e+04 / 92
p0 792.6 ± 0.5893
1100
1000
900
800
700
600

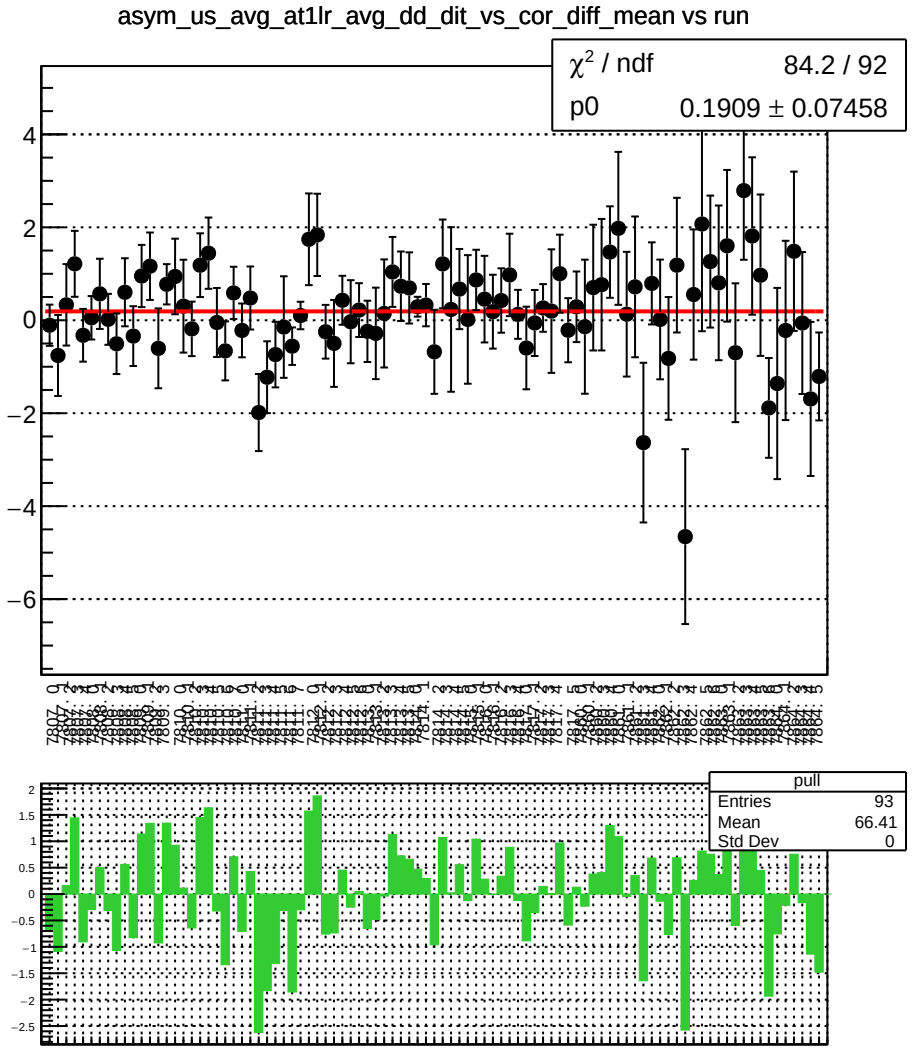

asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 67.28 / 92
p0 −357.7 ± 1976
pull
Entries 93
Mean 158.4
Std Dev 0

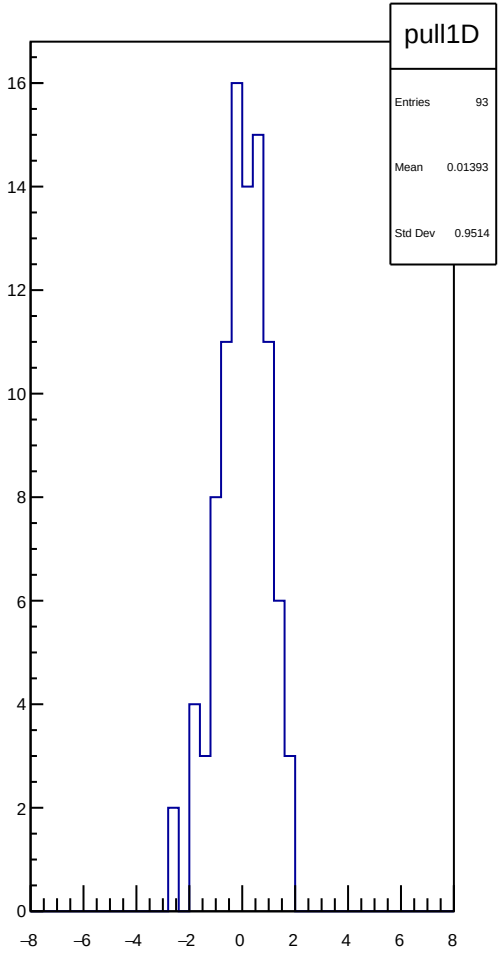

pull1D
Entries 93
Mean −0.02058
Std Dev 0.8503

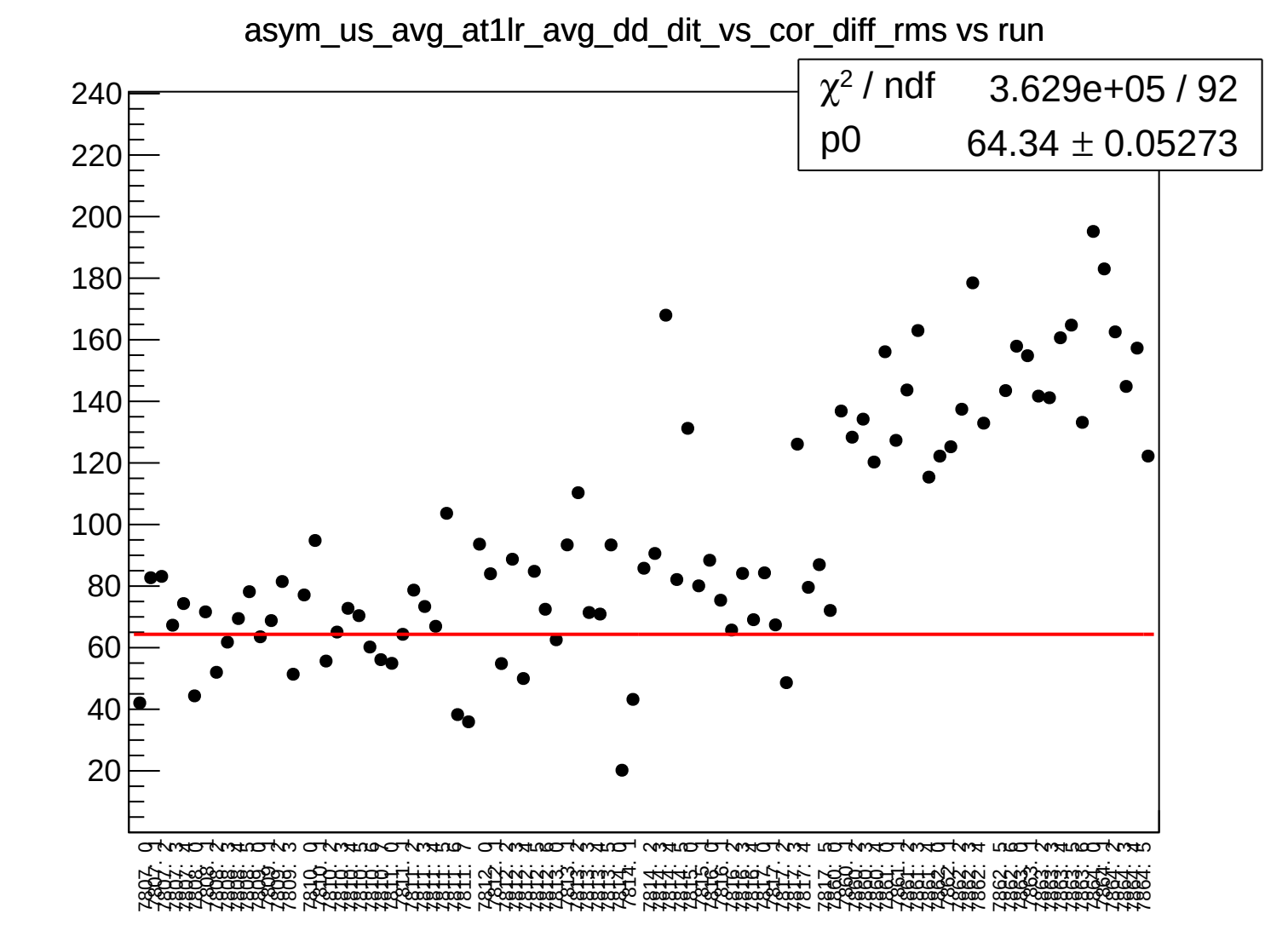

asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 1489 / 92
p0 1901 ± 1.398
2050
2000
1950
1900
1850
1800

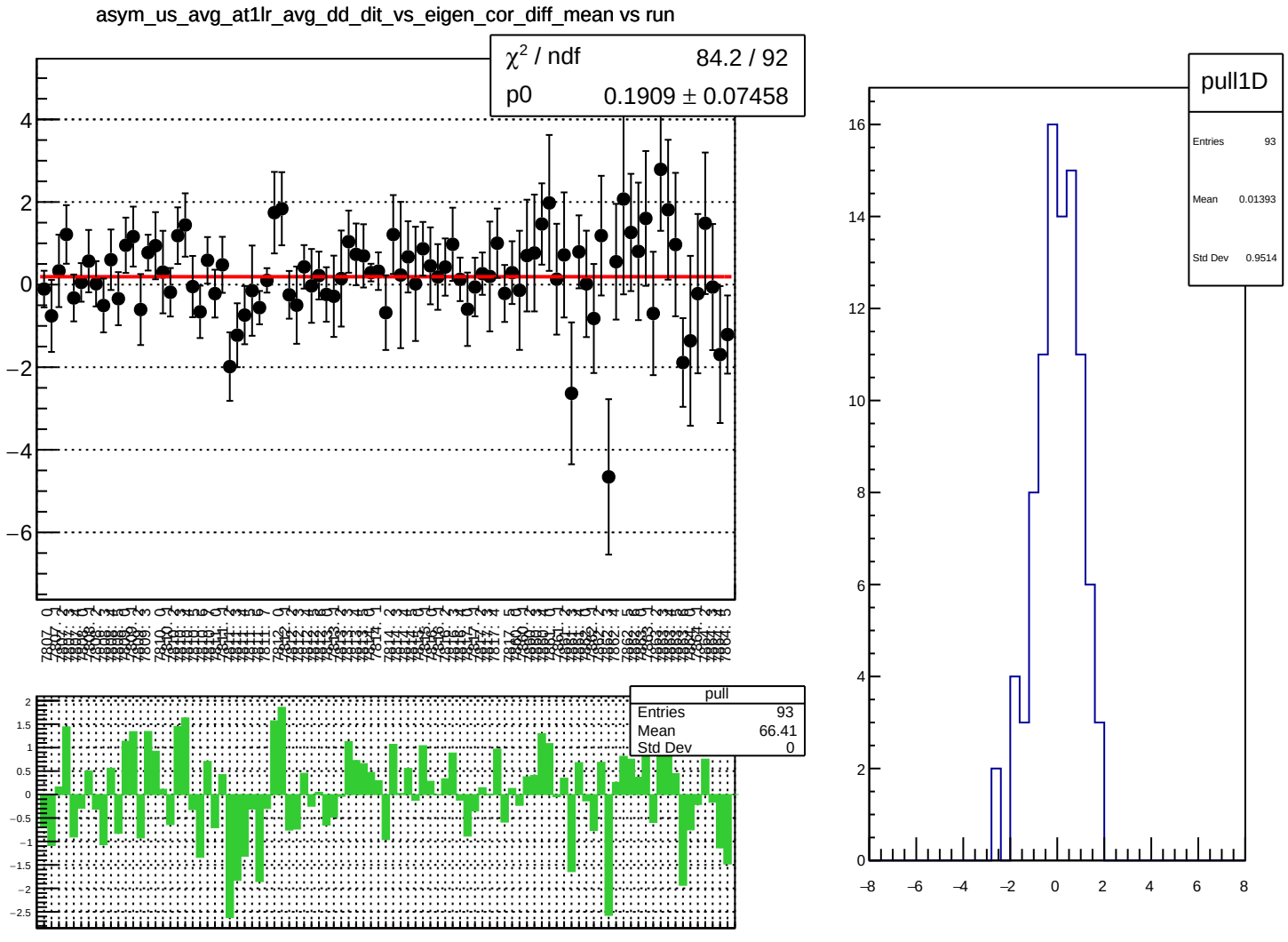

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 106.4 / 92
p0 1.594e−13 ± 1.423e−13
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 93
Mean 195
Std Dev 0
pull1D
Entries 93
Mean 0.03746
Std Dev 1.069
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

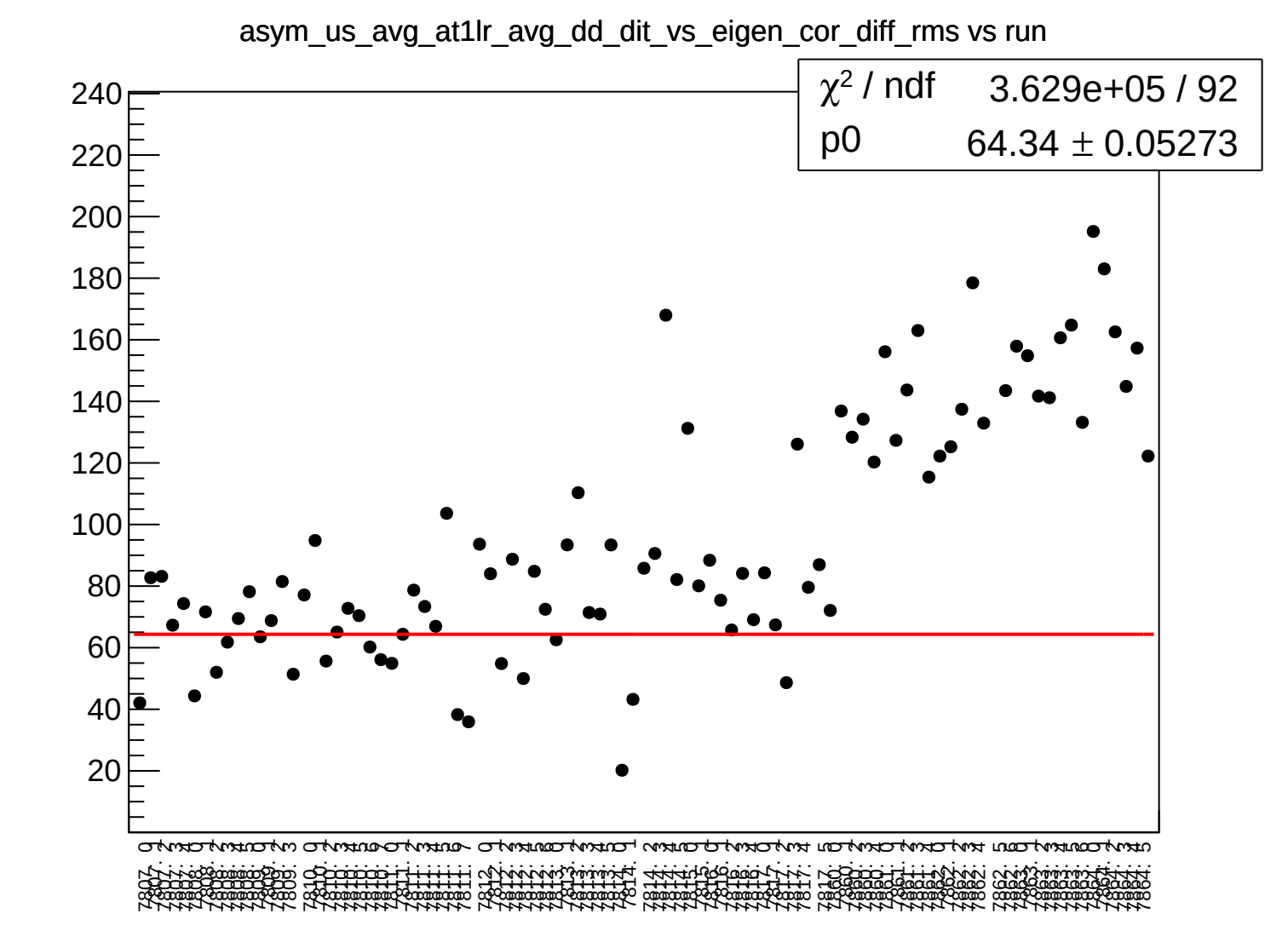

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.054e+06 / 92
p0 8.986e−11 ± 1.006e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

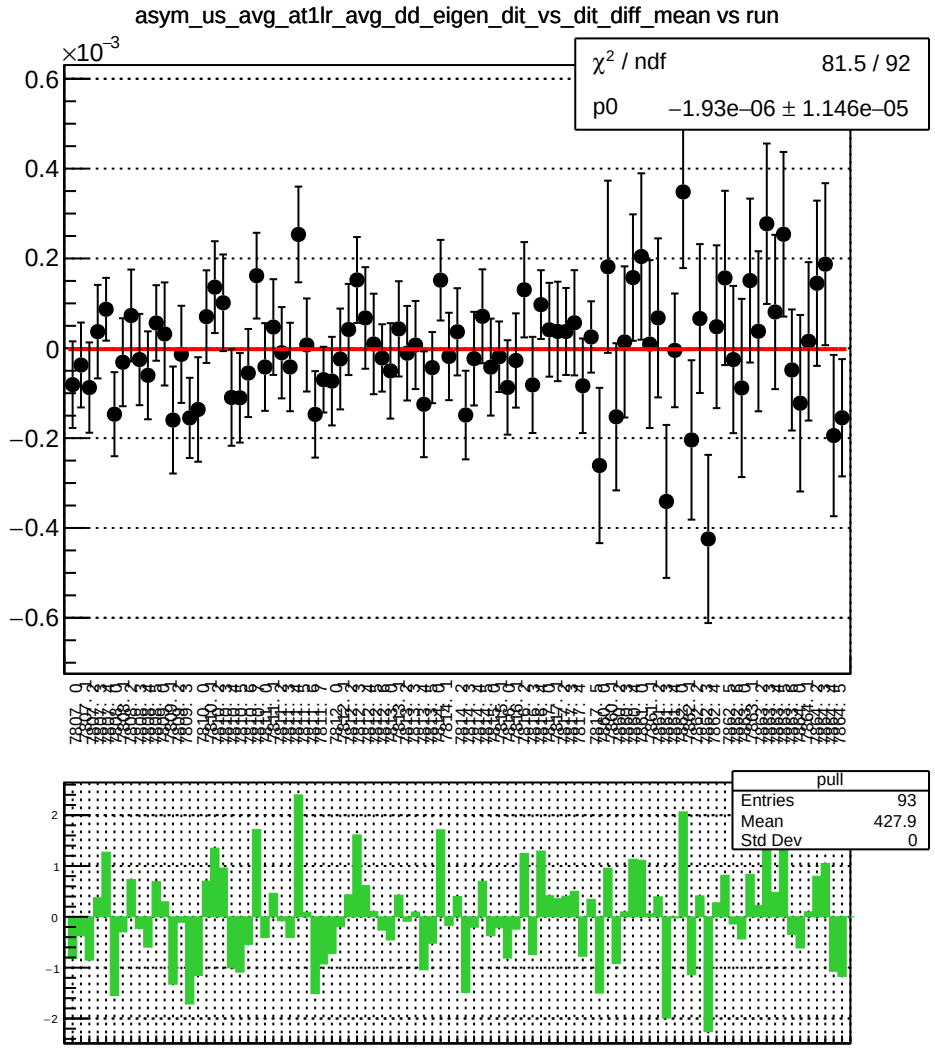

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 84.2 / 92
p0 0.1909 ± 0.07458
pull
Entries 93
Mean 66.41
Std Dev 0

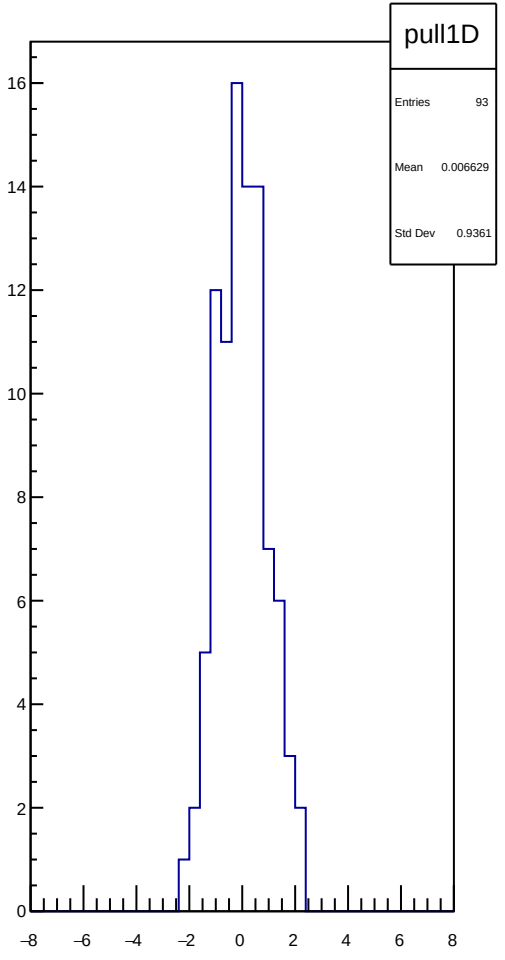

pull1D
Entries 93
Mean 0.01393
Std Dev 0.9514

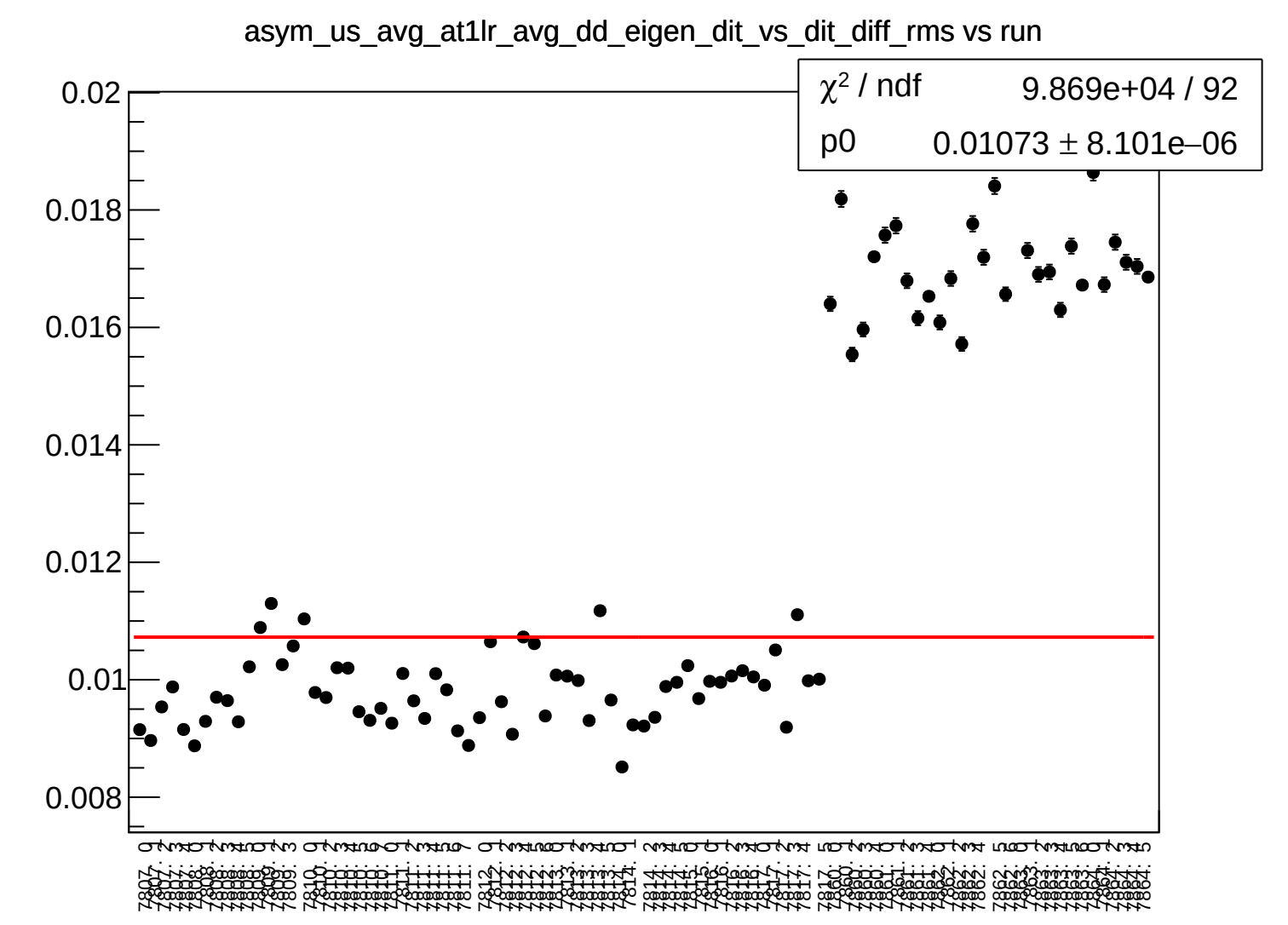

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.629e+05 / 92
p0 64.34 ± 0.05273
240
220
200
180
160
140
120
100
80
60
40
20

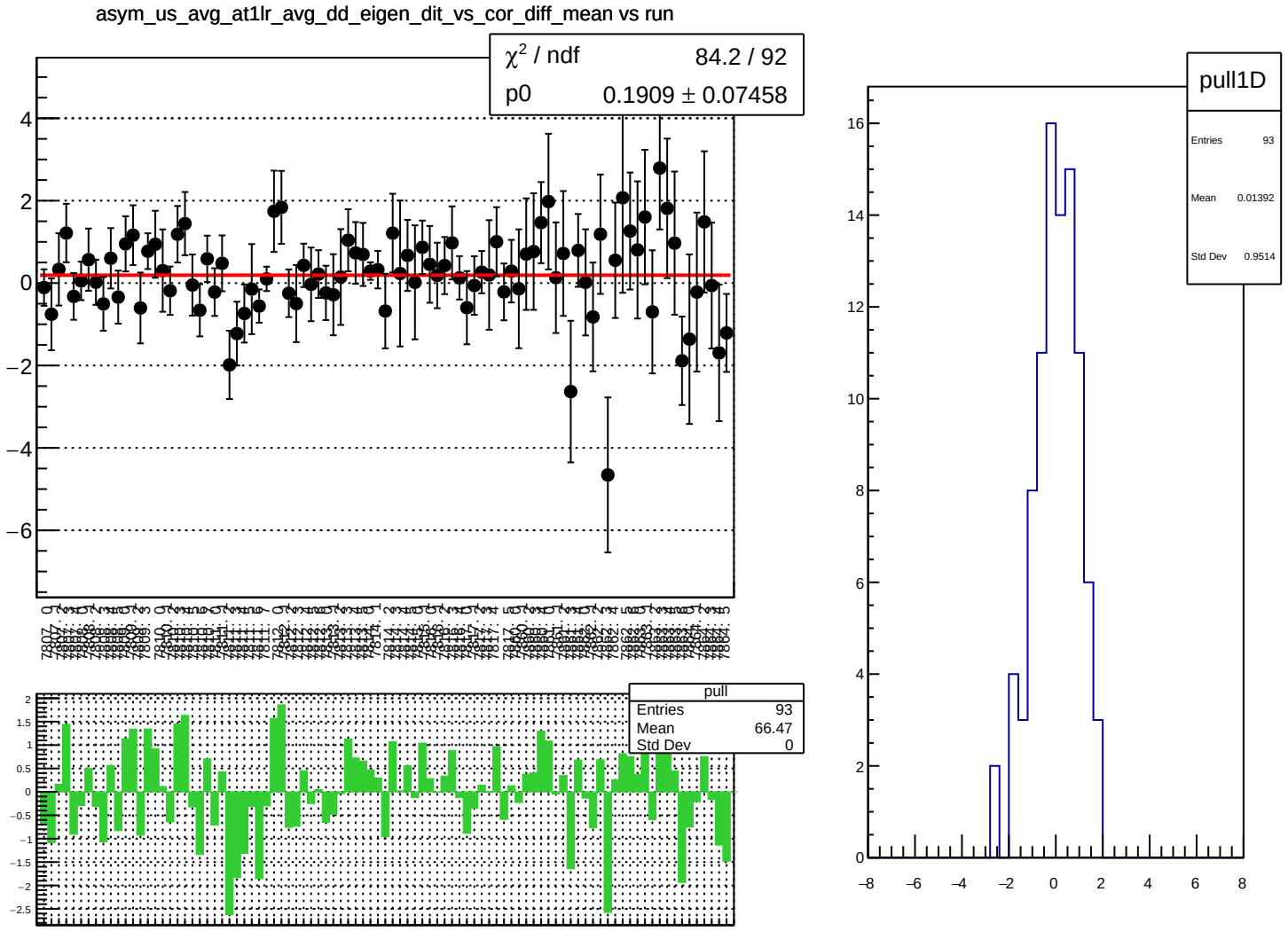

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.2 / 92
p0 0.1909 ± 0.07458
pull
Entries 93
Mean 66.41
Std Dev 0
pull1D
Entries 93
Mean 0.01393
Std Dev 0.9514

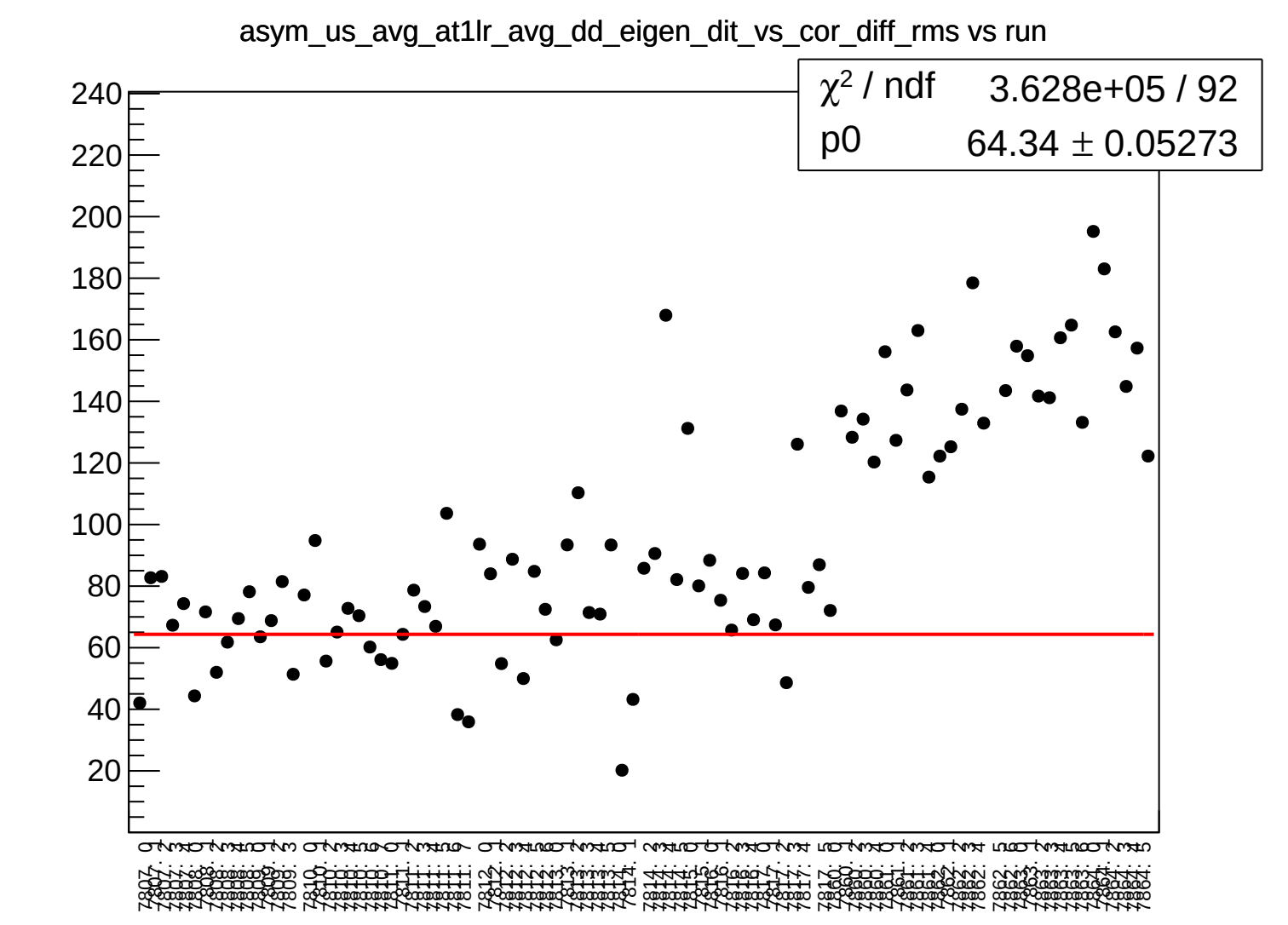

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.629e+05 / 92
p0 64.34 ± 0.05273
240
220
200
180
160
140
120
100
80
60
40
20

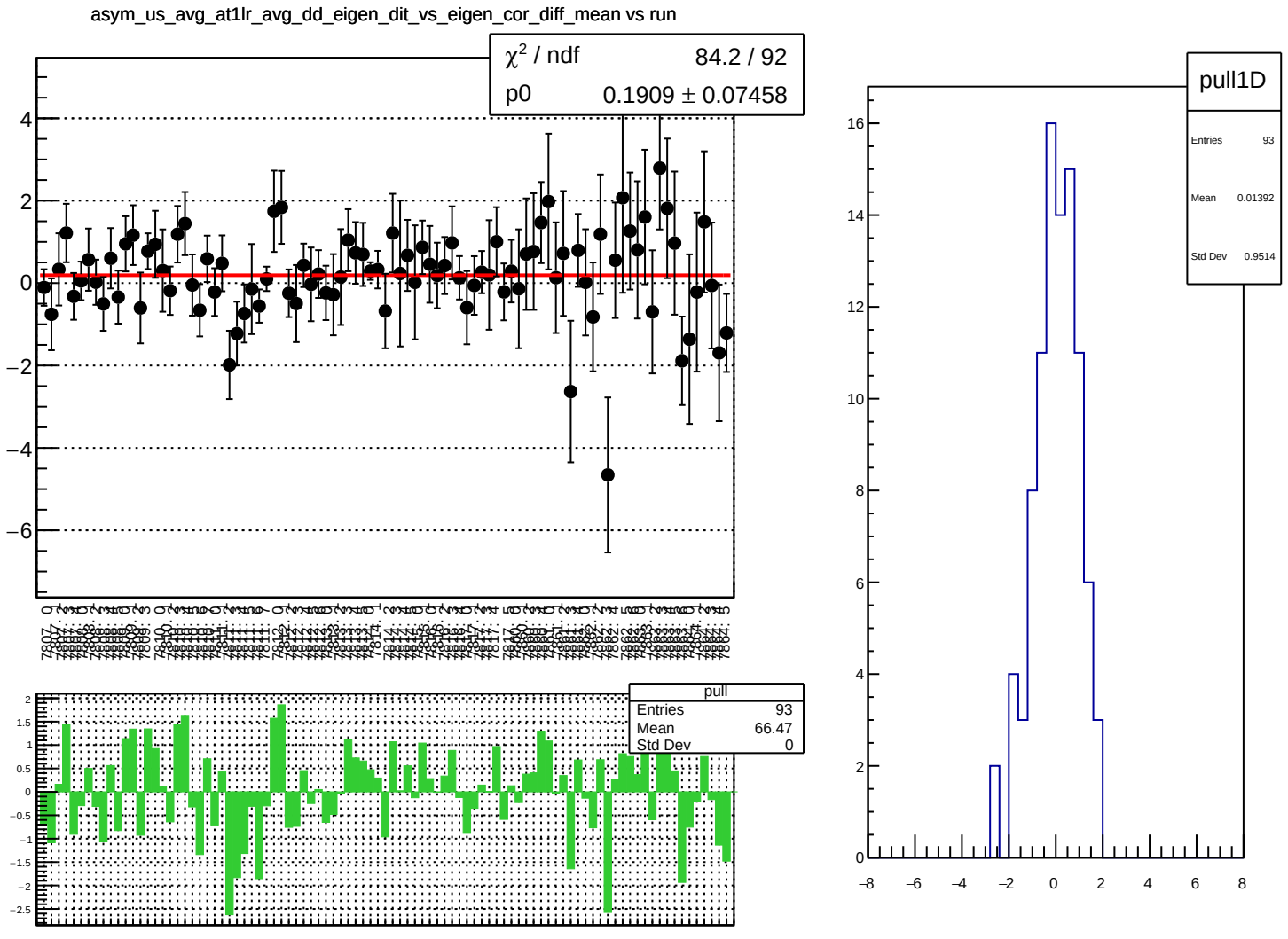

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 81.5 / 92
p0 −1.93e−06 ± 1.146e−05
pull
Entries 93
Mean 427.9
Std Dev 0

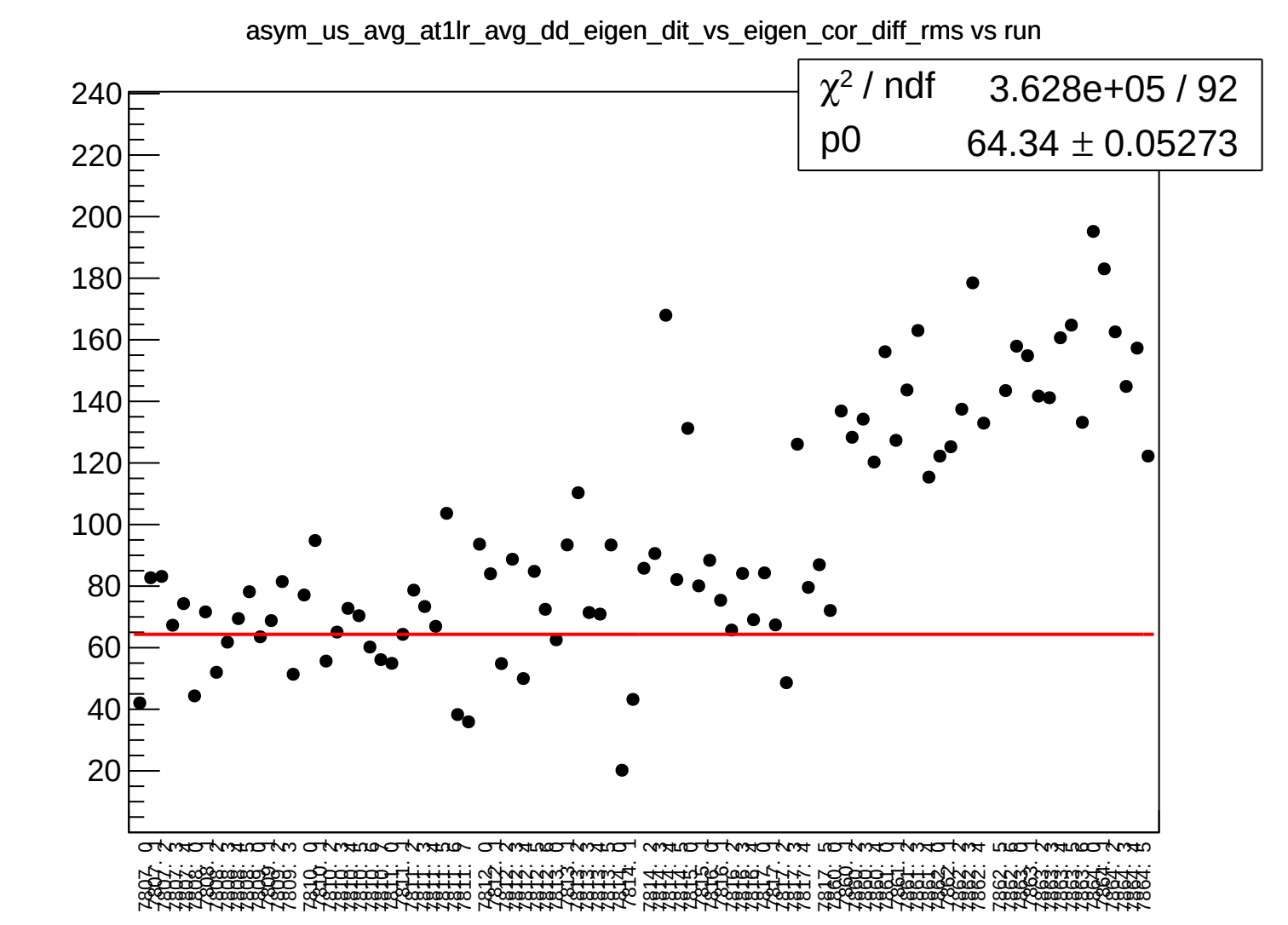

pull1D
Entries 93
Mean 0.006629
Std Dev 0.9361

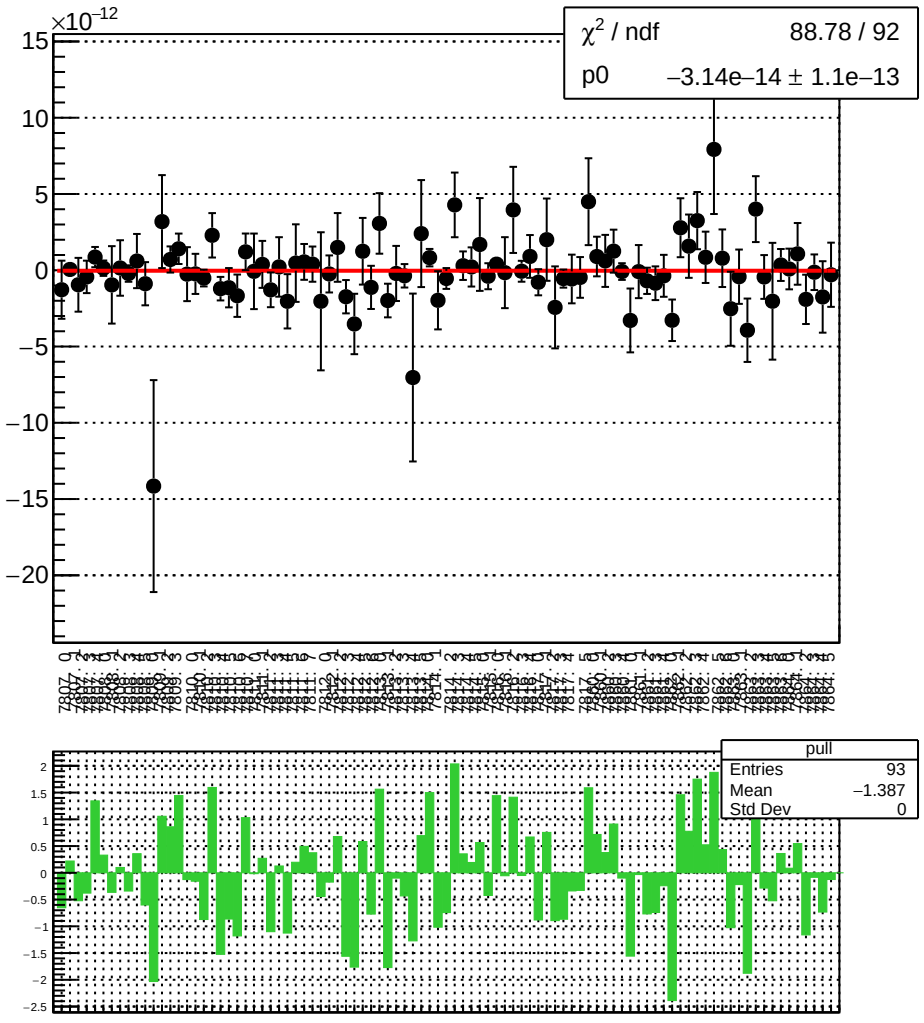

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.869e+04 / 92
p0 0.01073 ± 8.101e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008

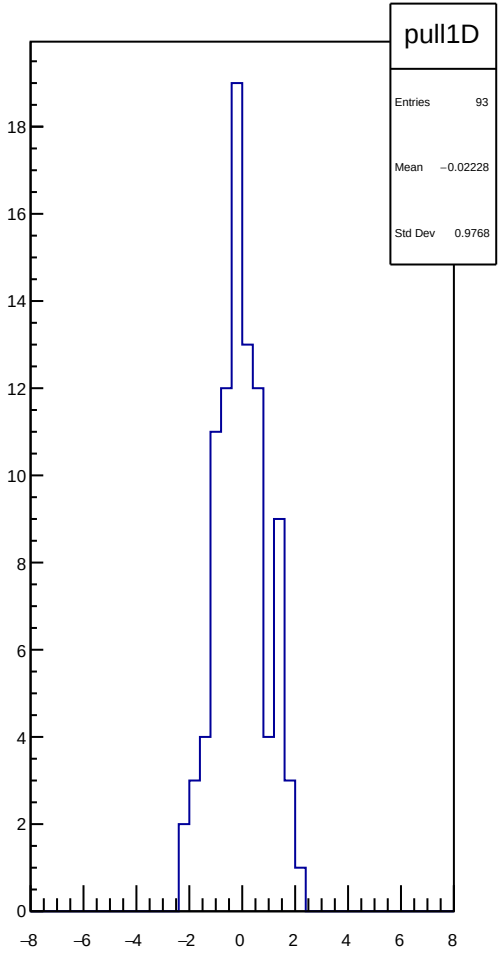

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.2 / 92
p0 0.1909 ± 0.07458
pull
Entries 93
Mean 66.47
Std Dev 0
pull1D
Entries 93
Mean 0.01392
Std Dev 0.9514

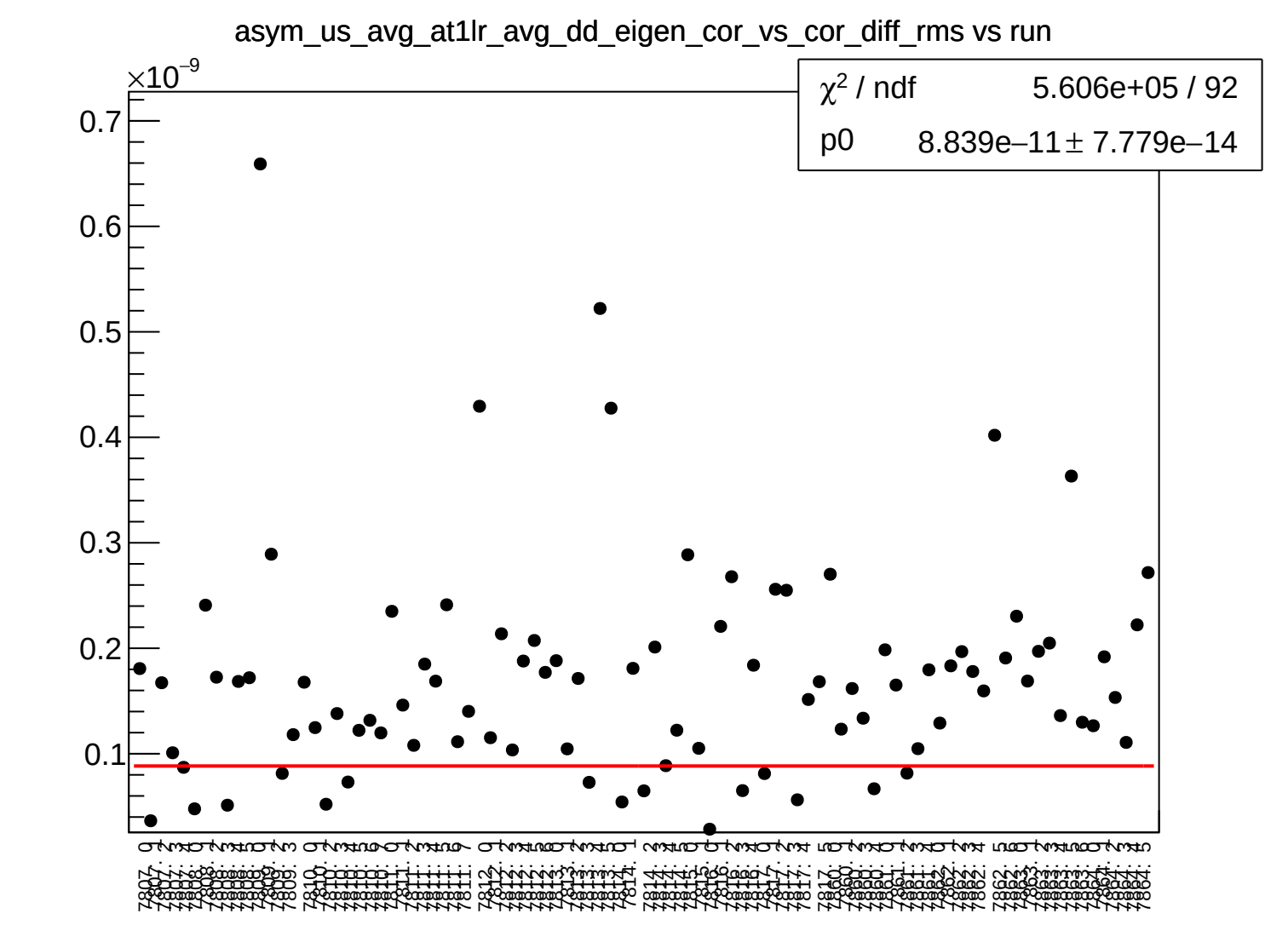

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.628e+05 / 92
p0 64.34 ± 0.05273
240
220
200
180
160
140
120
100
80
60
40
20

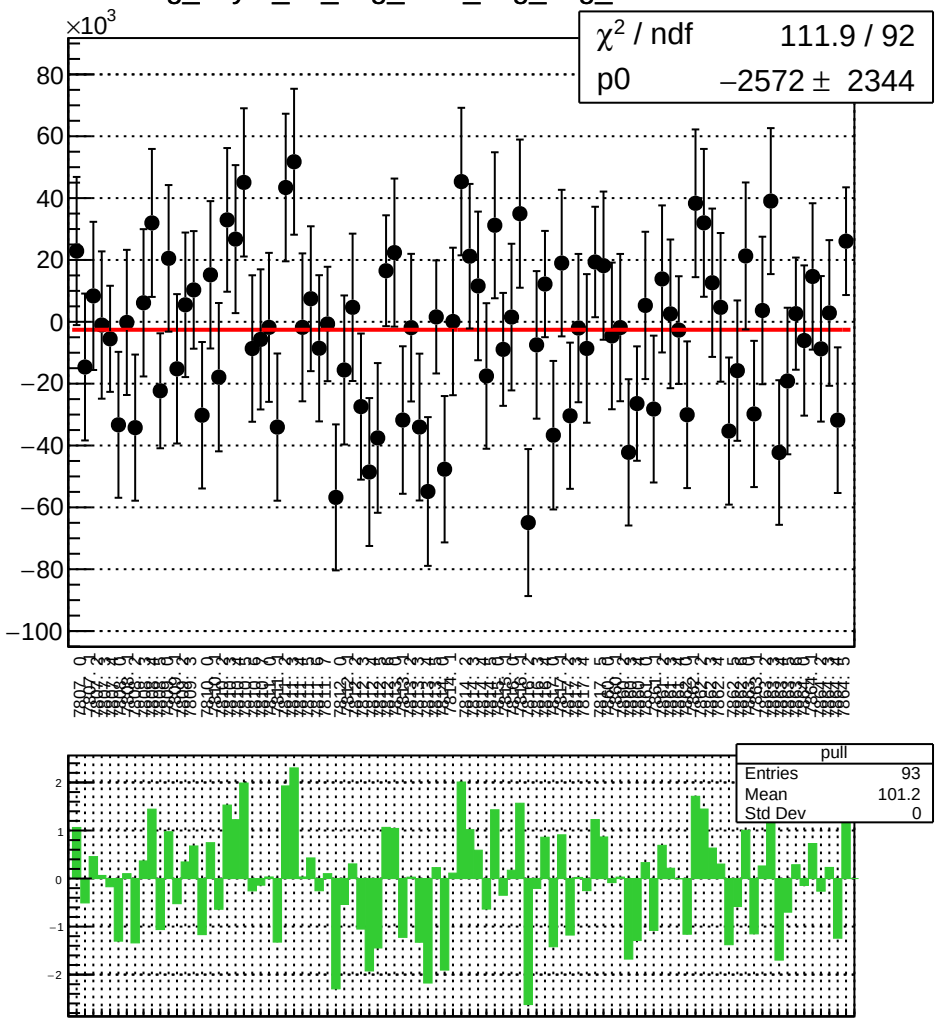

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.2 / 92
p0 0.1909 ± 0.07458
pull
Entries 93
Mean 66.47
Std Dev 0
pull1D
Entries 93
Mean 0.01392
Std Dev 0.9514

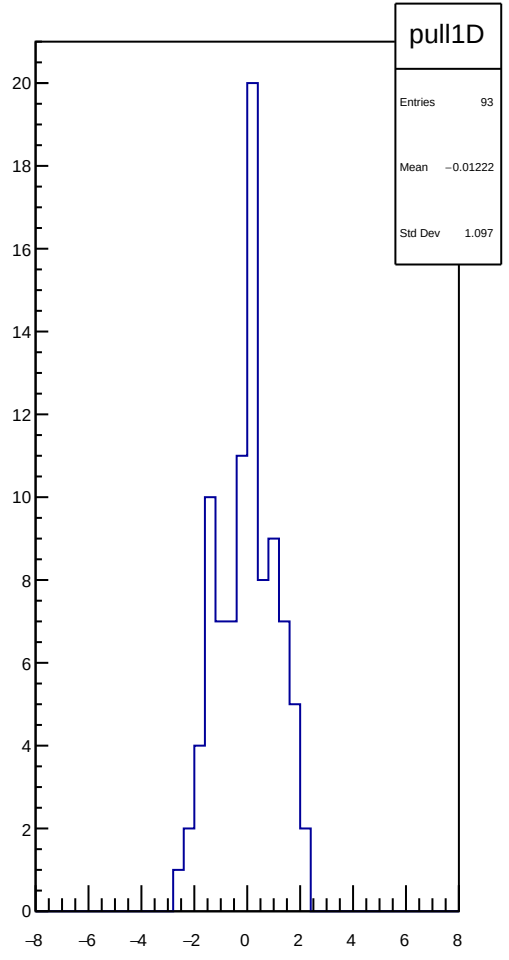

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.628e+05 / 92
p0 64.34 ± 0.05273
240
220
200
180
160
140
120
100
80
60
40
20

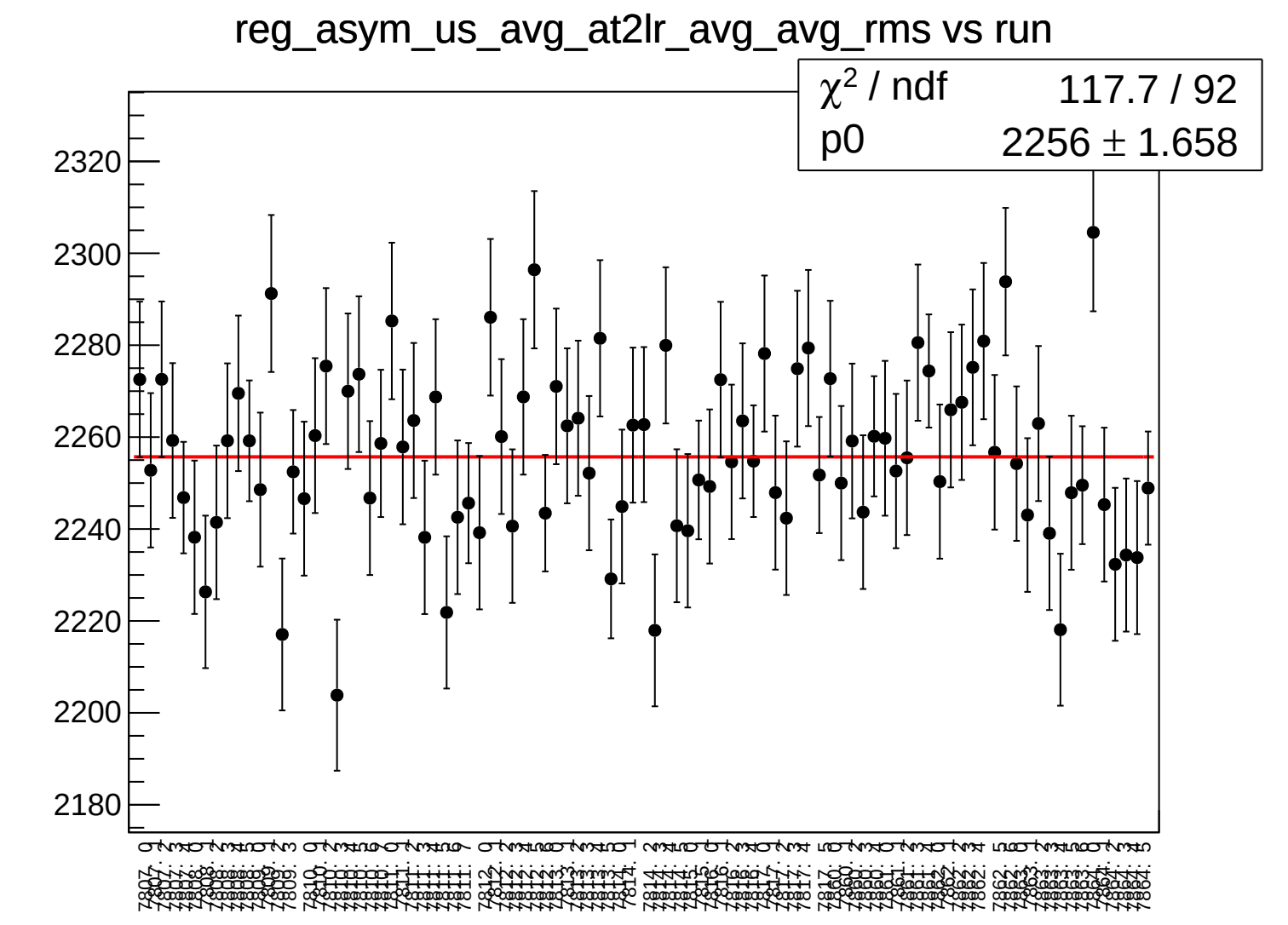

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.78 / 92
p0 −3.14e−14 ± 1.1e−13
pull
Entries 93
Mean −1.387
Std Dev 0

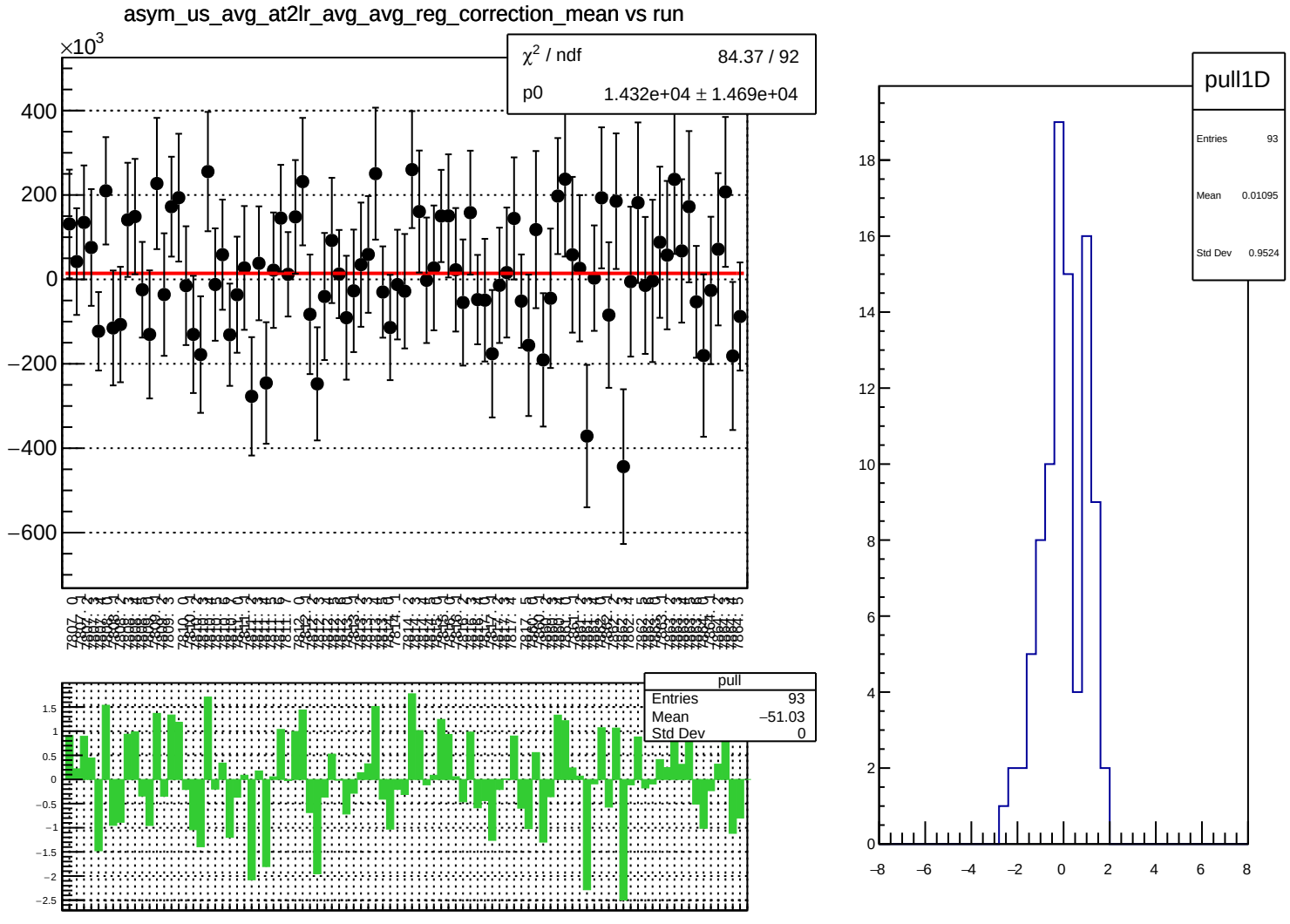

pull1D
Entries 93
Mean −0.02228
Std Dev 0.9768

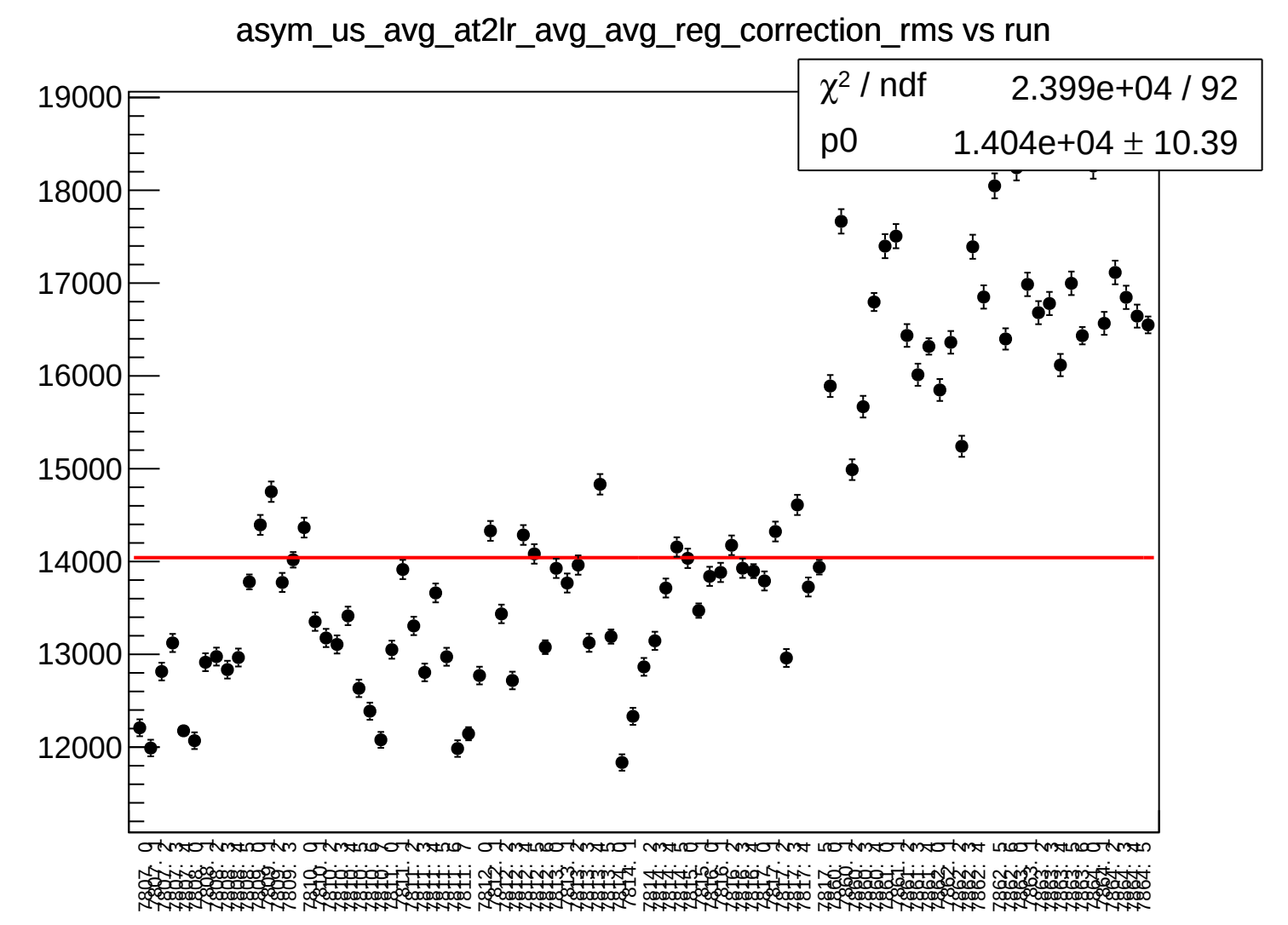

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.606e+05 / 92
p0 8.839e−11 ± 7.779e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

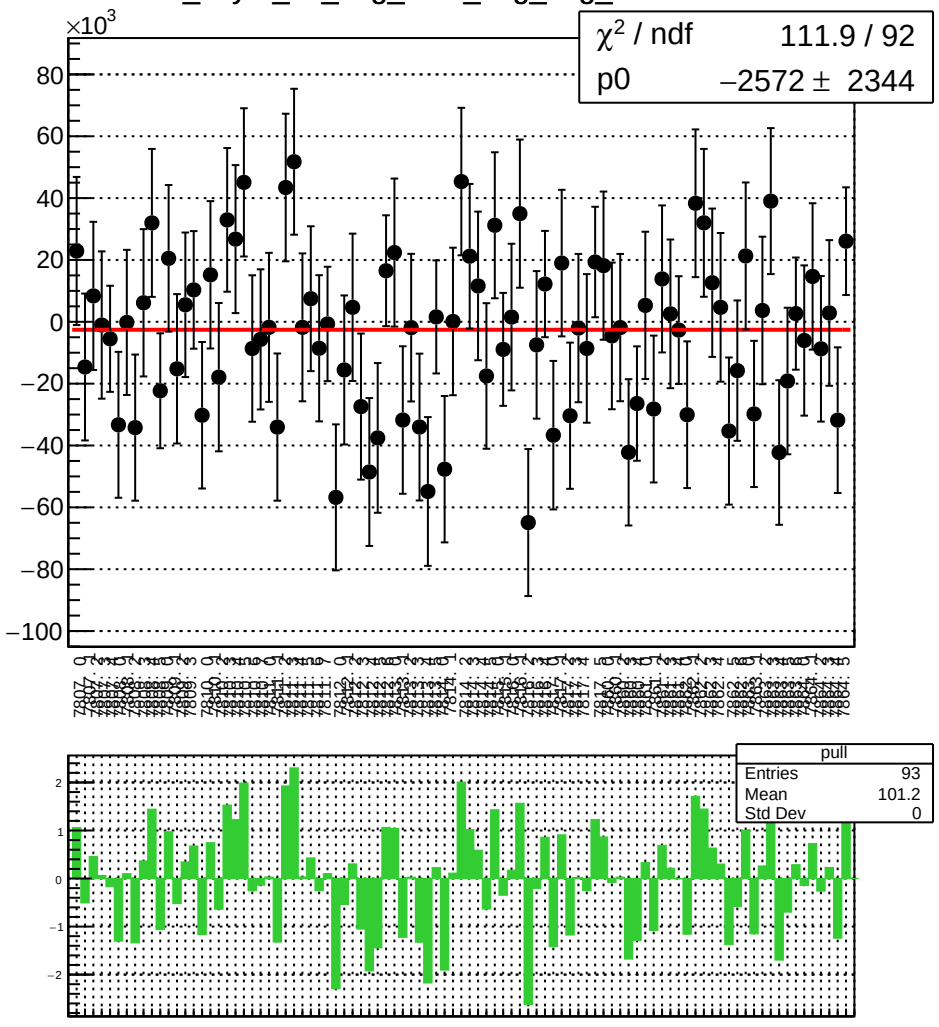

reg_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 111.9 / 92
p0 −2572 ± 2344
pull
Entries 93
Mean 101.2
Std Dev 0

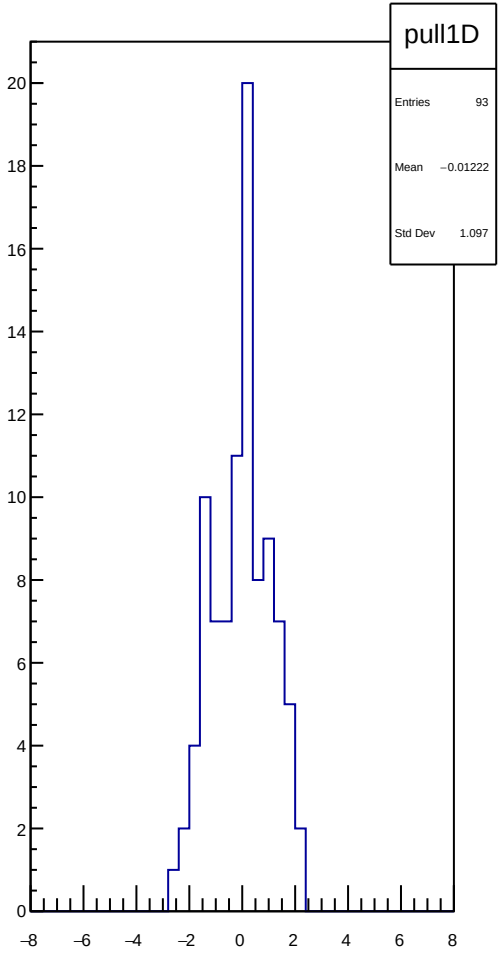

pull1D
Entries 93
Mean −0.01222
Std Dev 1.097

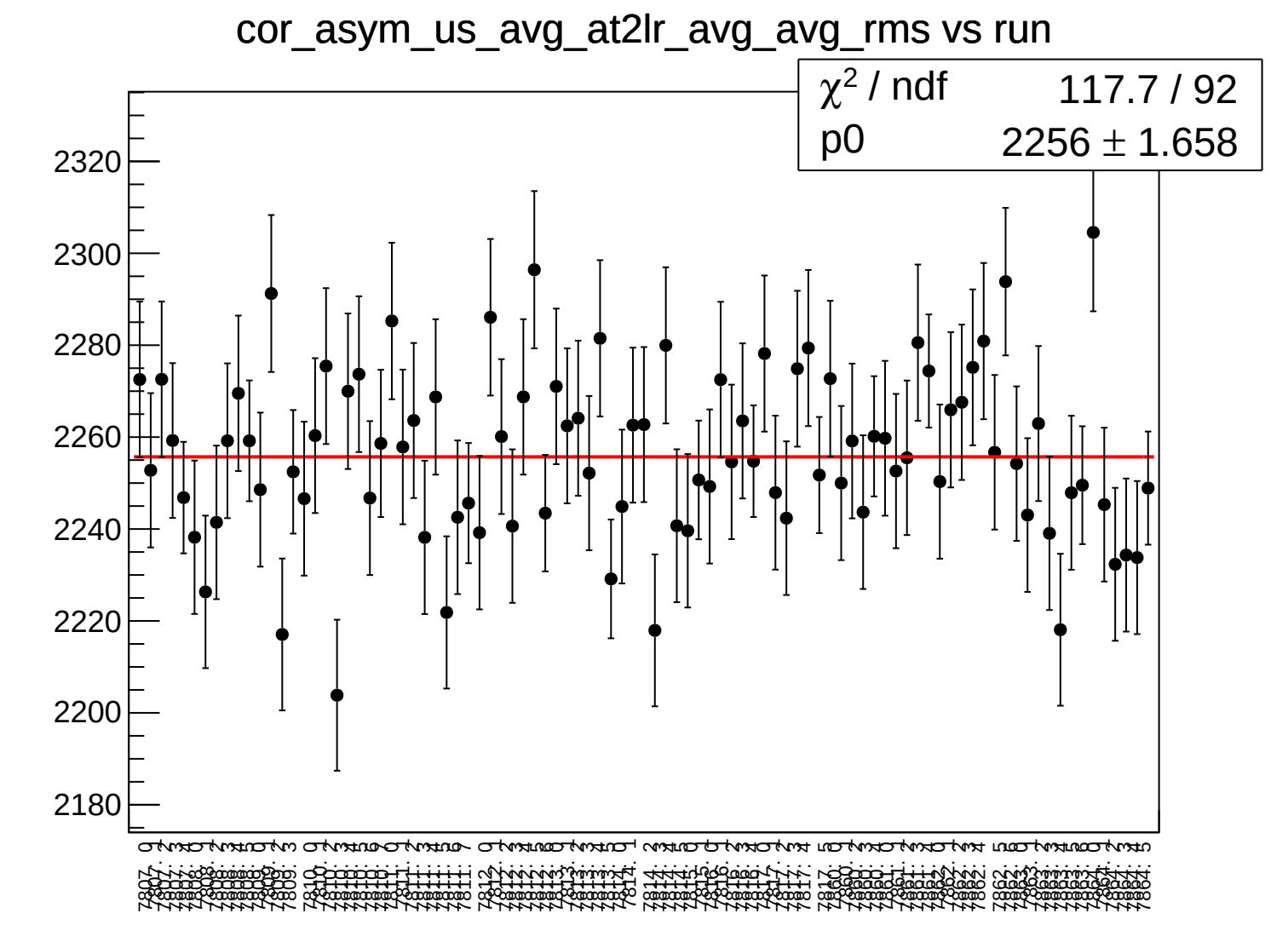

reg_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 117.7 / 92
p0 2256 ± 1.658
2320
2300
2280
2260
2240
2220
2200
2180

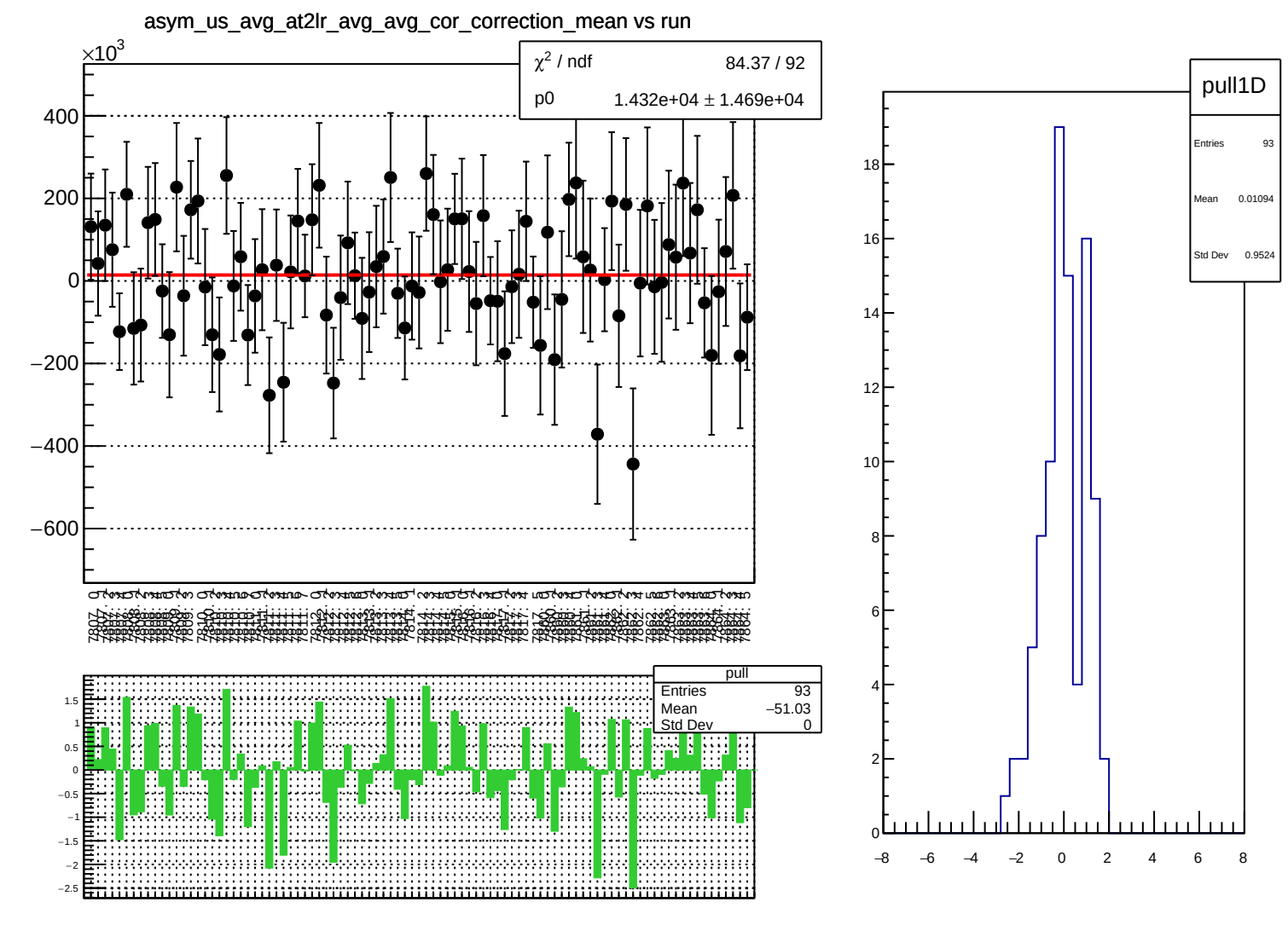

asym_us_avg_at2lr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 84.37 / 92
p0 1.432e+04 ± 1.469e+04
400
200
0
−200
−400
−600
pull
Entries 93
Mean −51.03
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 93
Mean 0.01095
Std Dev 0.9524
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

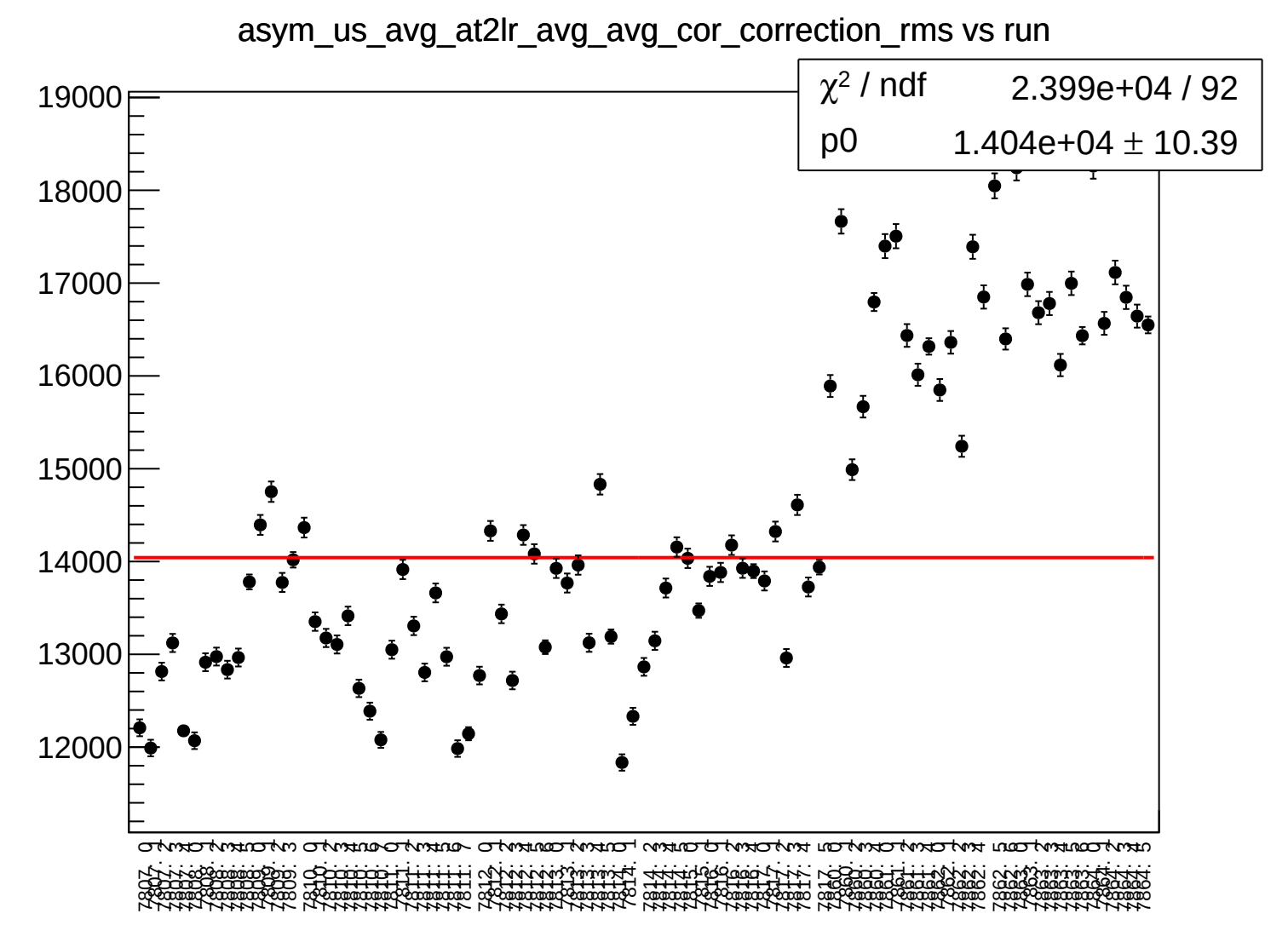

asym_us_avg_at2lr_avg_avg_reg_correction_rms vs run
χ² / ndf 2.399e+04 / 92
p0 1.404e+04 ± 10.39
19000
18000
17000
16000
15000
14000
13000
12000

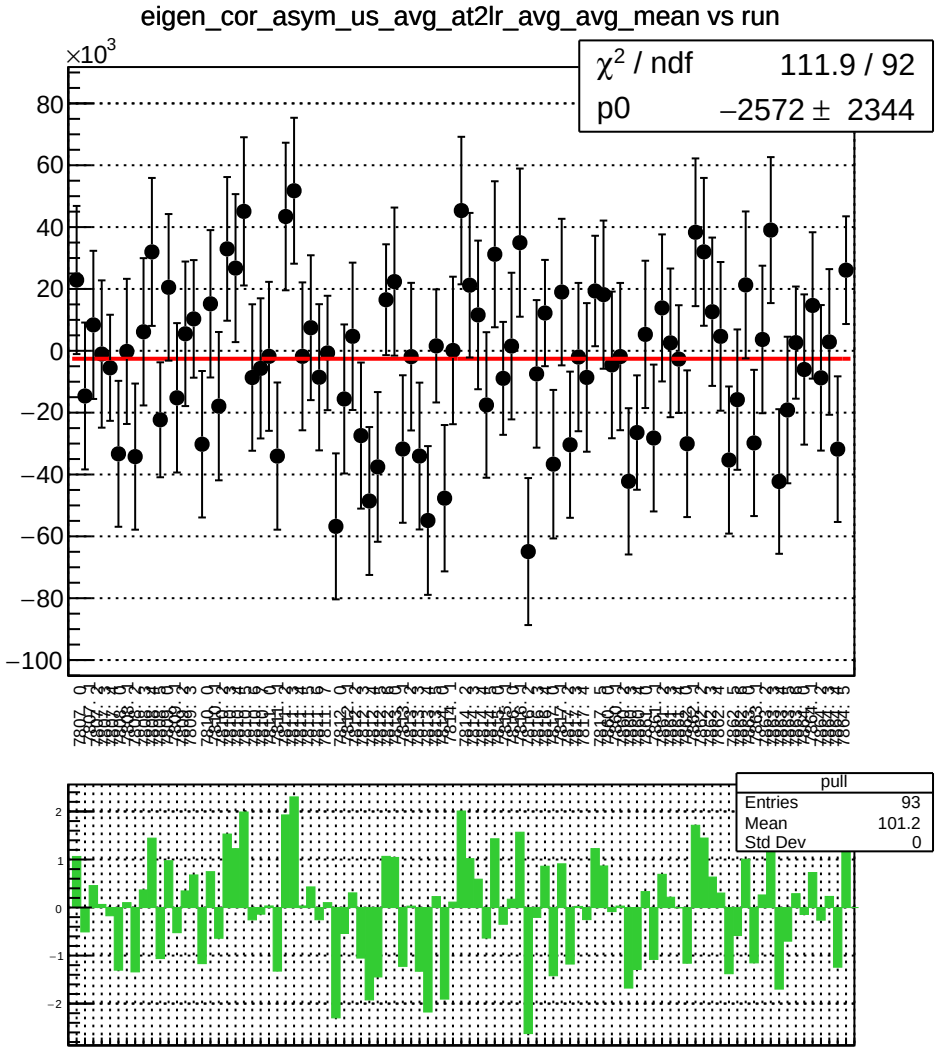

cor_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 111.9 / 92
p0 −2572 ± 2344
pull
Entries 93
Mean 101.2
Std Dev 0

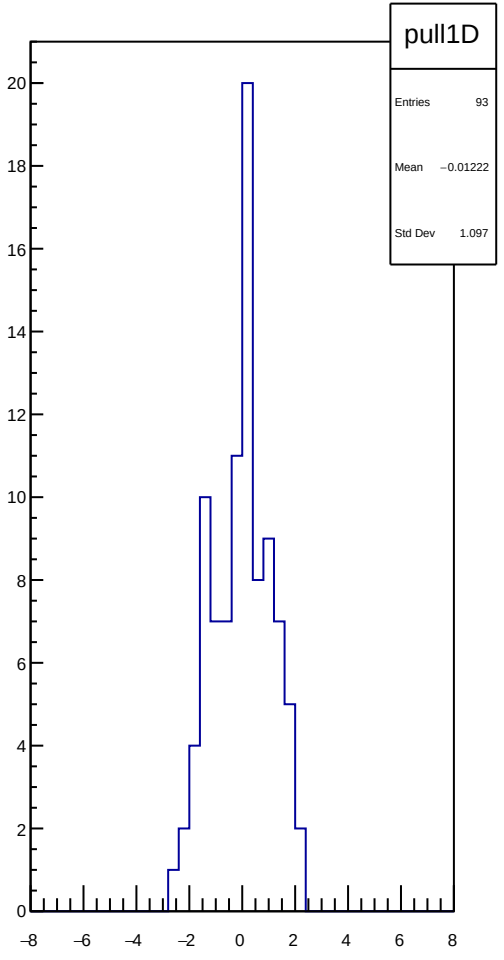

pull1D
Entries 93
Mean −0.01222
Std Dev 1.097

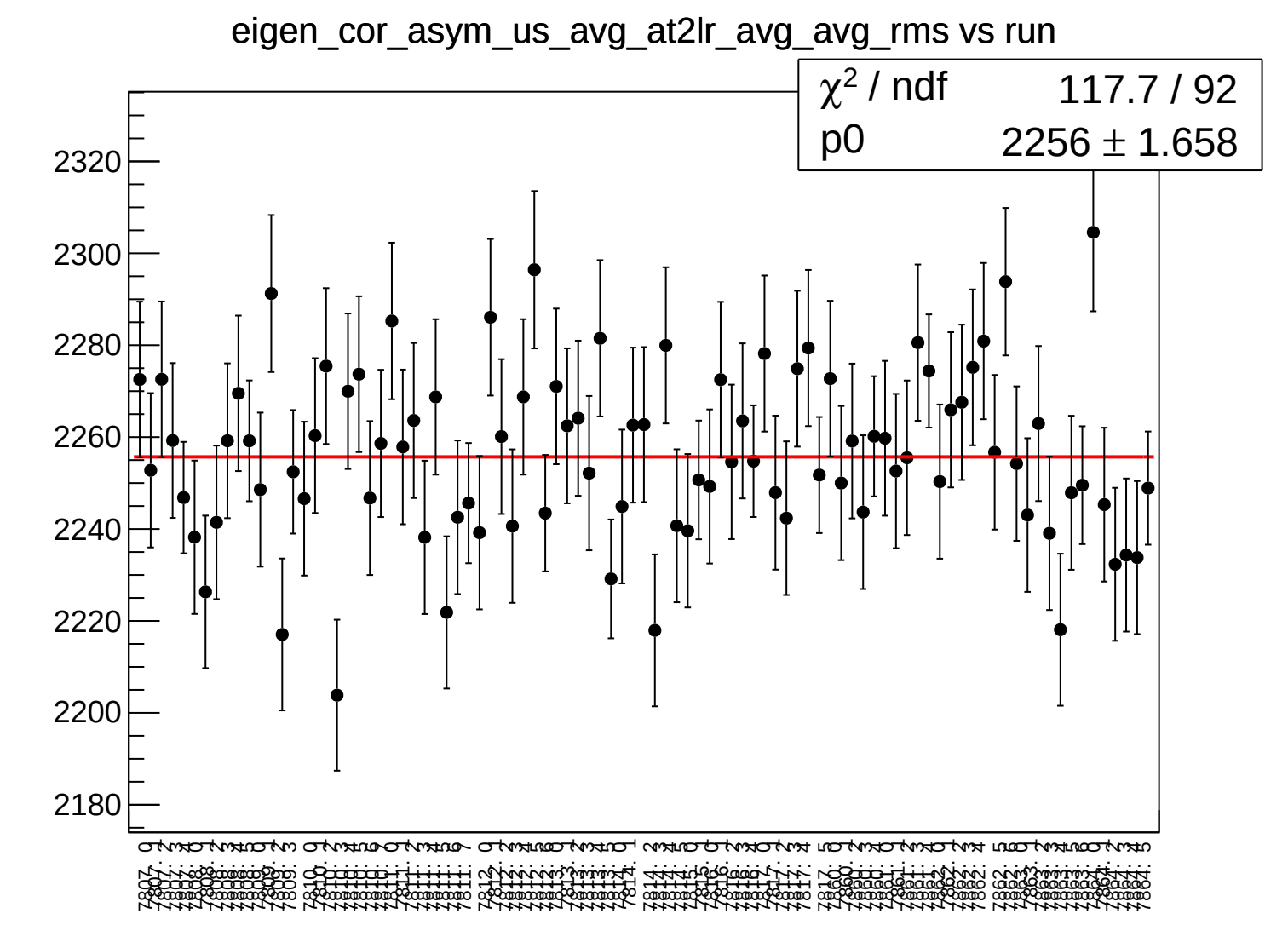

cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ^2 / ndf 117.7 / 92
p0 2256 ± 1.658
2320
2300
2280
2260
2240
2220
2200
2180

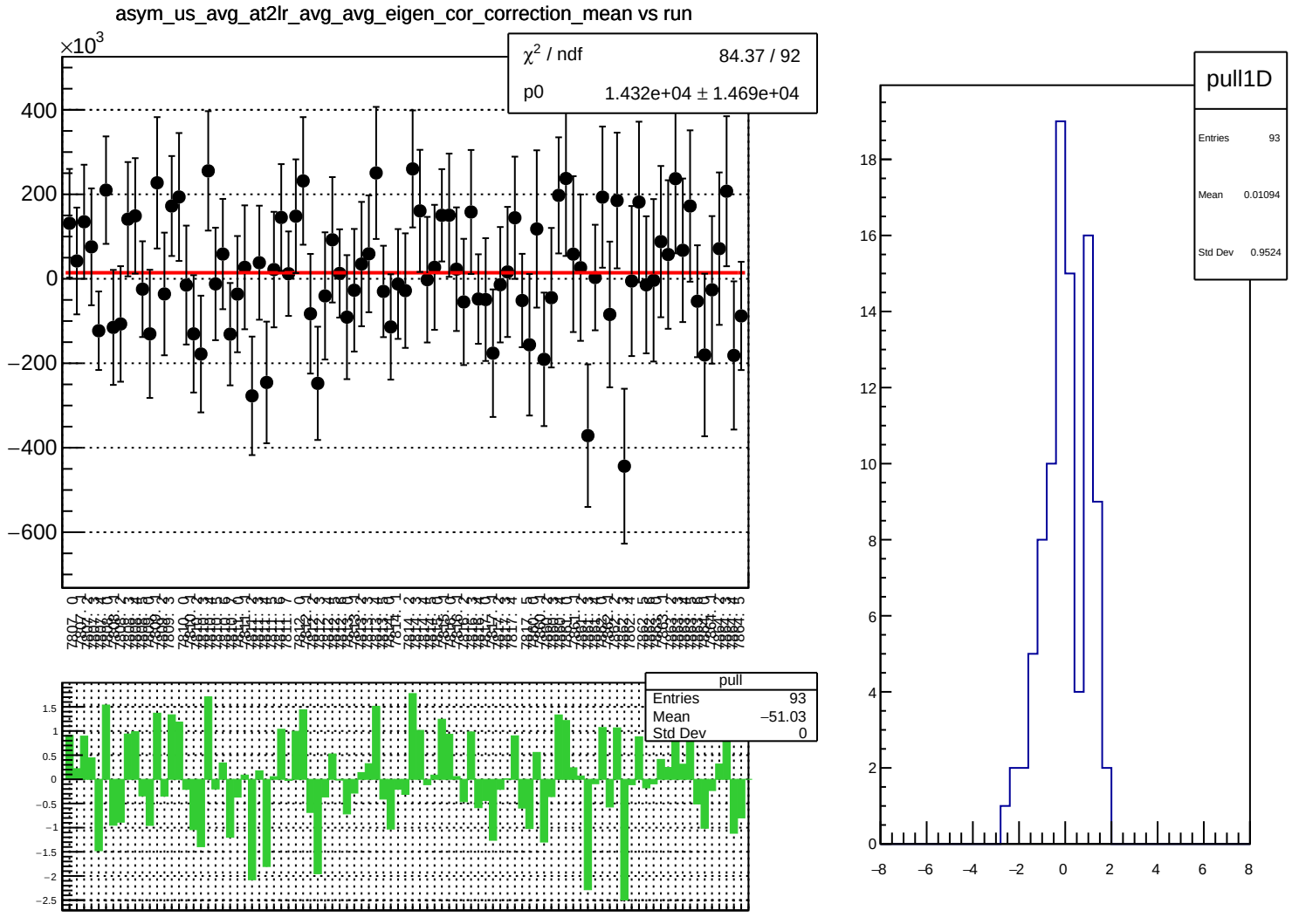

asym_us_avg_at2lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 84.37 / 92
p0 1.432e+04 ± 1.469e+04
400
200
0
−200
−400
−600
pull
Entries 93
Mean −51.03
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 93
Mean 0.01094
Std Dev 0.9524
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

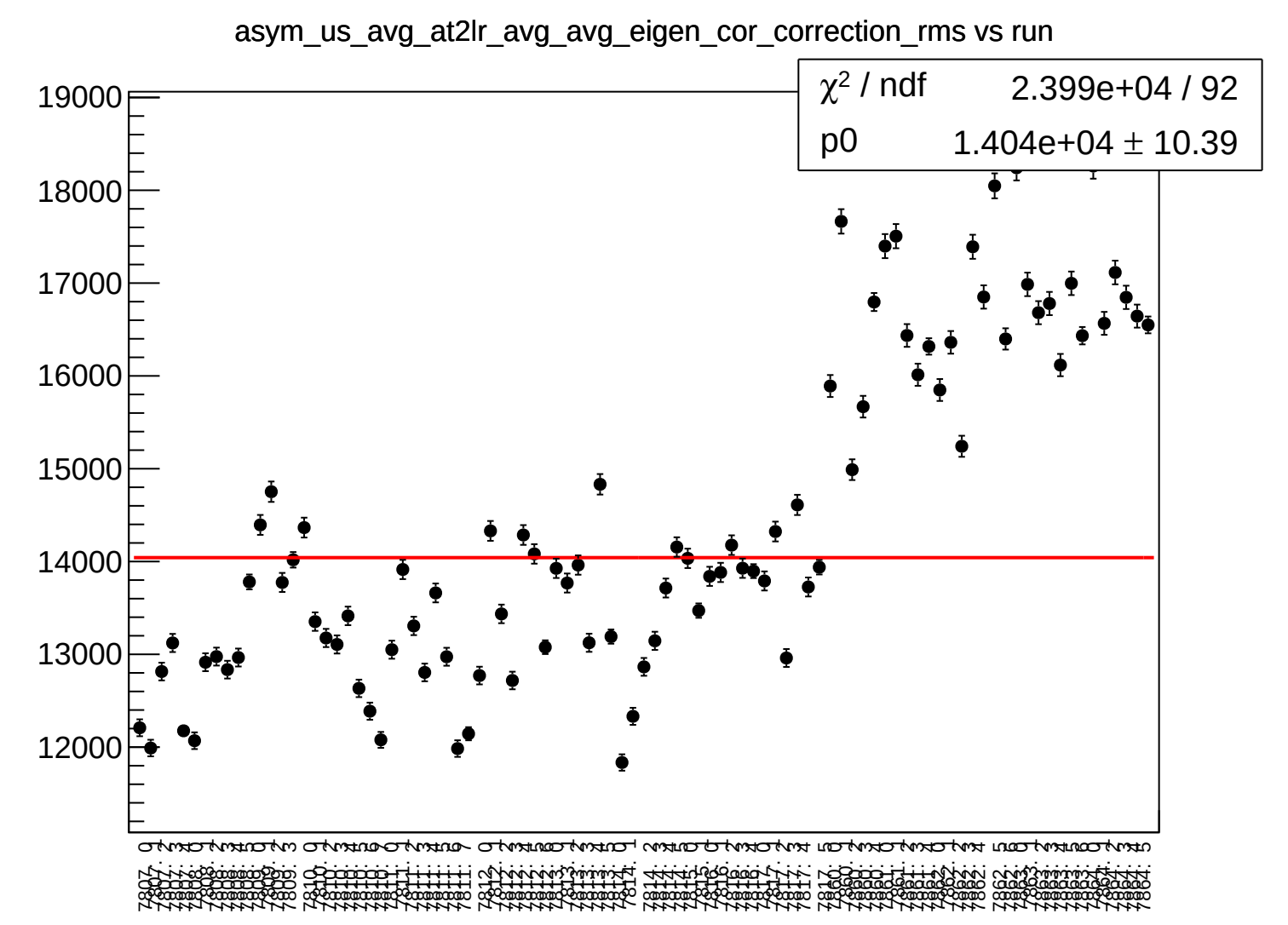

asym_us_avg_at2lr_avg_avg_cor_correction_rms vs run
χ² / ndf 2.399e+04 / 92
p0 1.404e+04 ± 10.39
19000
18000
17000
16000
15000
14000
13000
12000

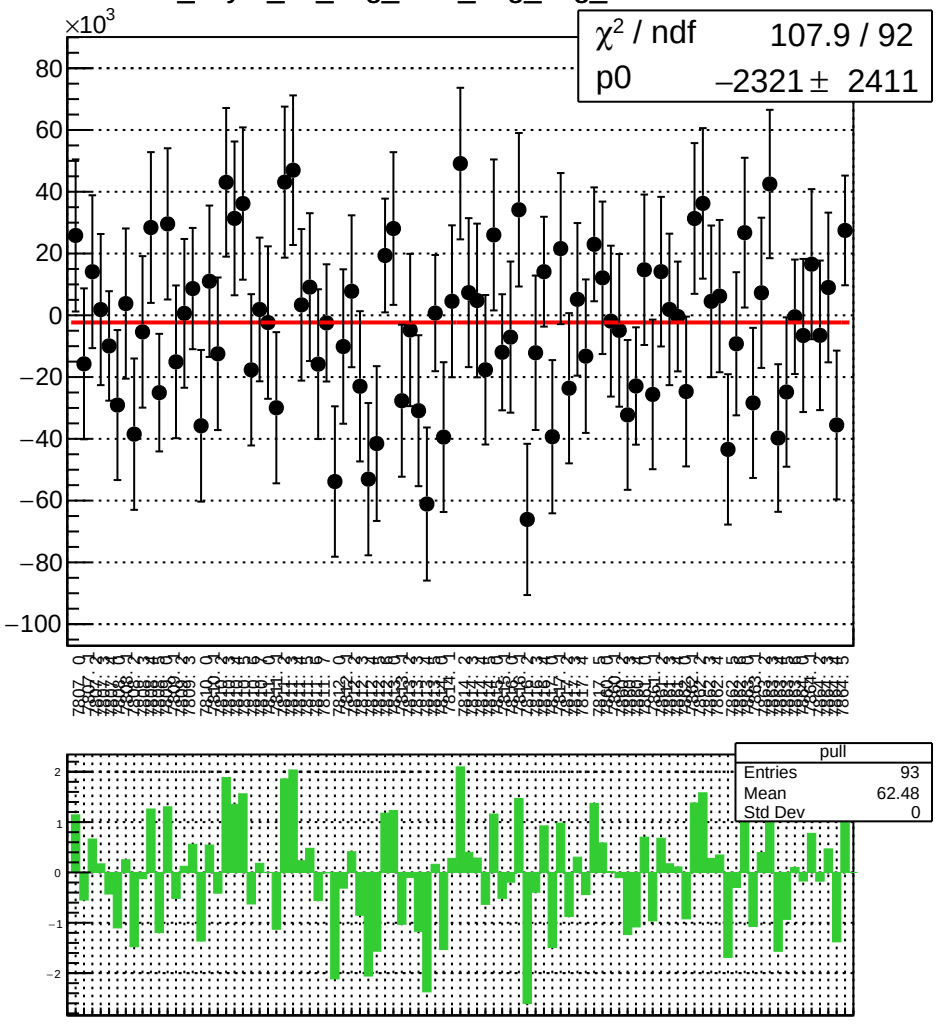

eigen_cor_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 111.9 / 92
p0 −2572 ± 2344
pull
Entries 93
Mean 101.2
Std Dev 0

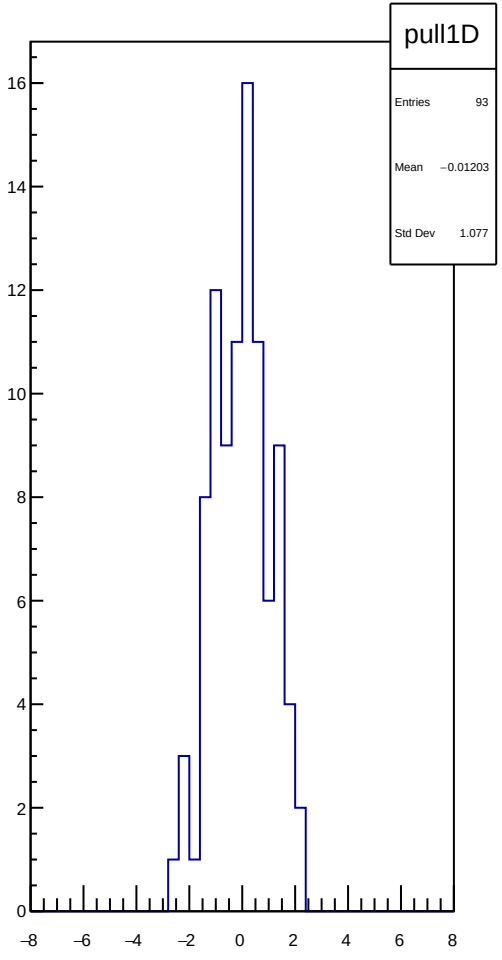

pull1D
Entries 93
Mean −0.01222
Std Dev 1.097

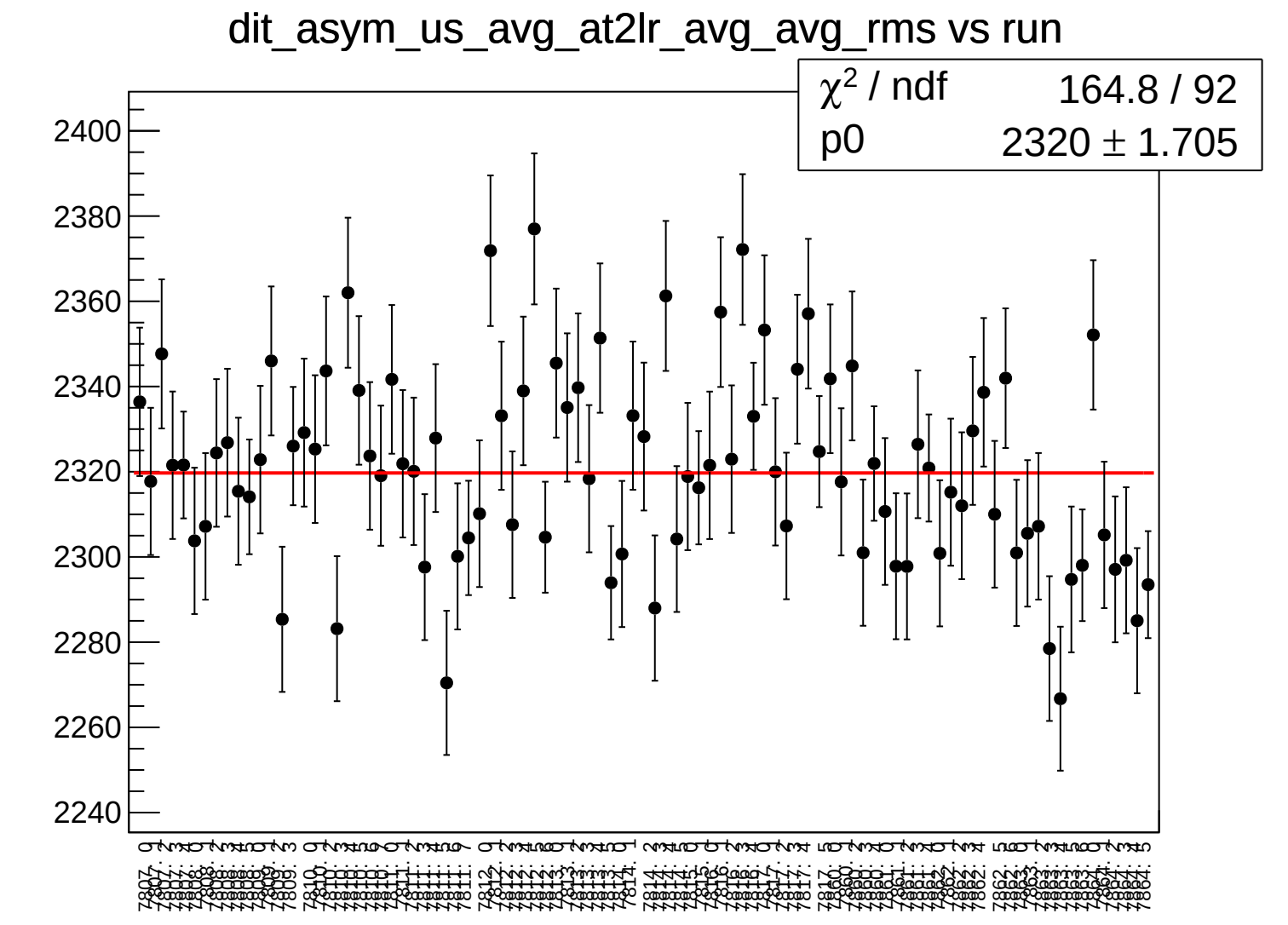

eigen_cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ^2 / ndf 117.7 / 92
p0 2256 ± 1.658
2320
2300
2280
2260
2240
2220
2200
2180

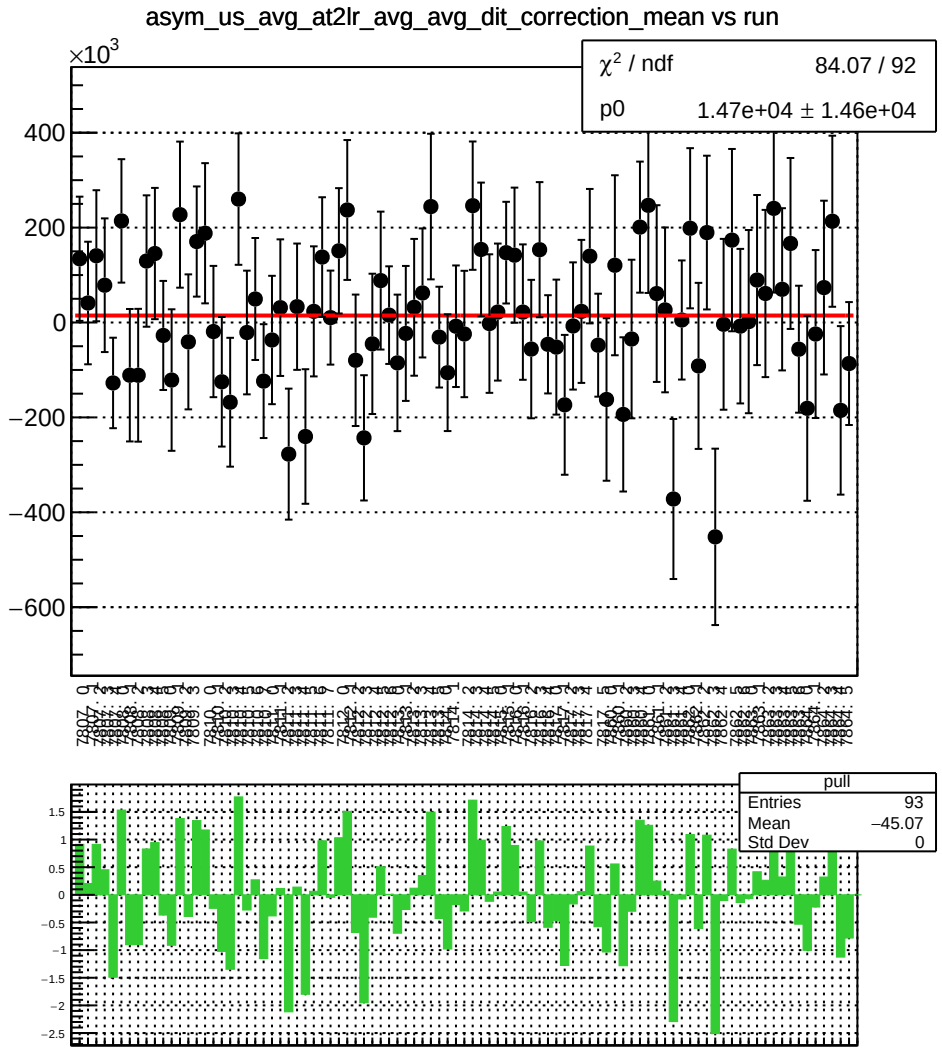

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 84.37 / 92
p0 1.432e+04 ± 1.469e+04
400
200
0
−200
−400
−600
pull
Entries 93
Mean −51.03
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 93
Mean 0.01094
Std Dev 0.9524
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

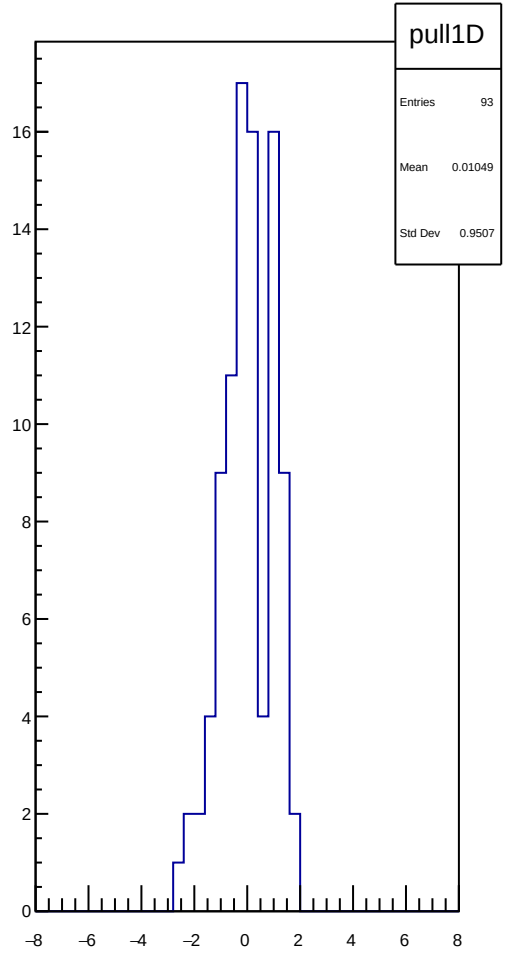

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.399e+04 / 92
p0 1.404e+04 ± 10.39
19000
18000
17000
16000
15000
14000
13000
12000

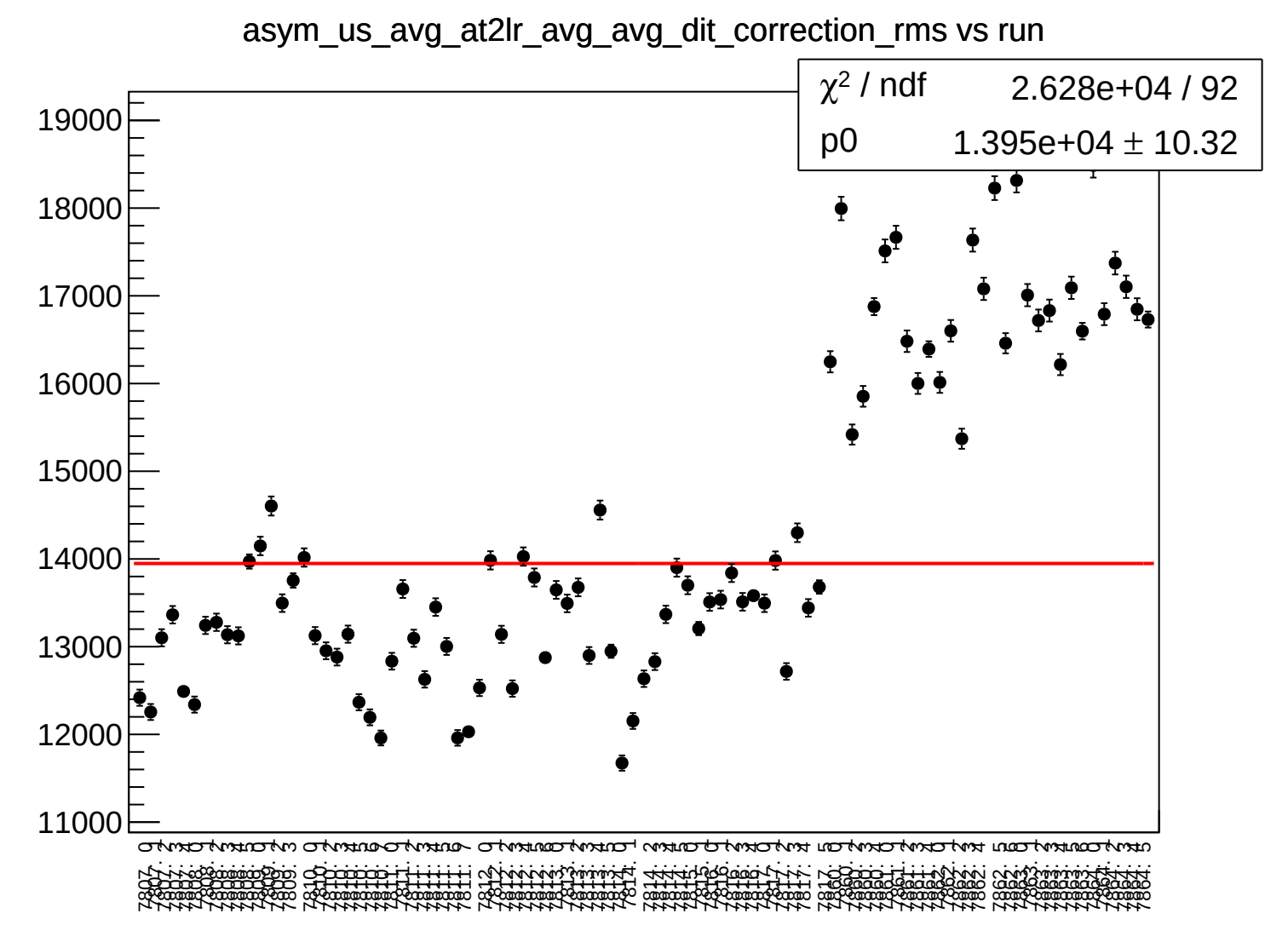

dit_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 107.9 / 92
p0 −2321 ± 2411
pull
Entries 93
Mean 62.48
Std Dev 0

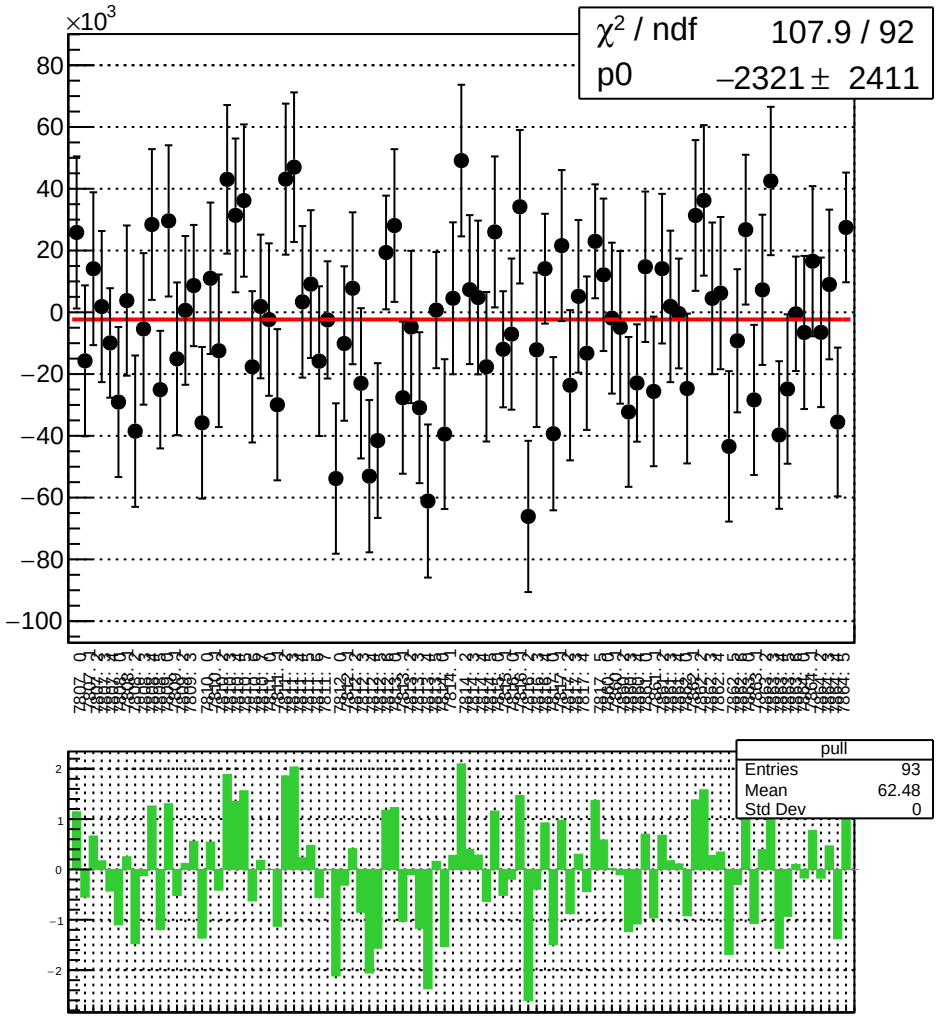

pull1D
Entries 93
Mean −0.01203
Std Dev 1.077

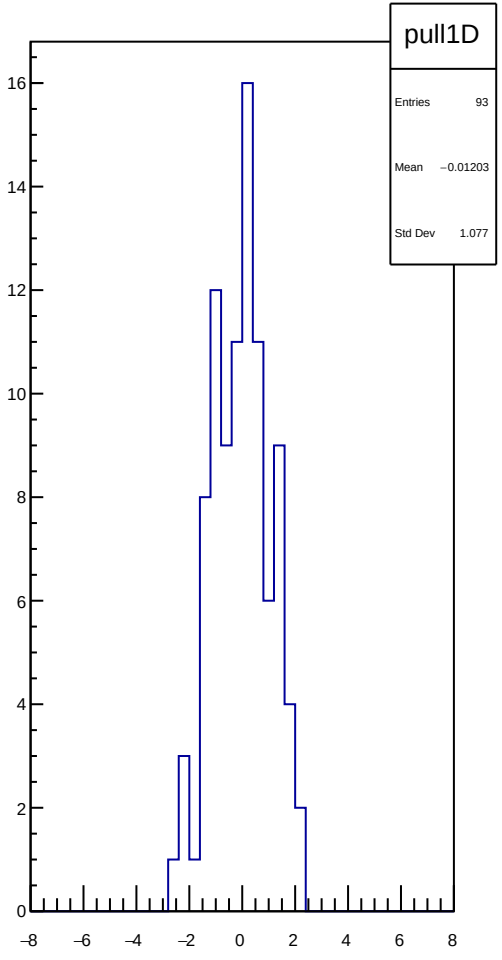

dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 164.8 / 92
p0 2320 ± 1.705
2400
2380
2360
2340
2320
2300
2280
2260
2240

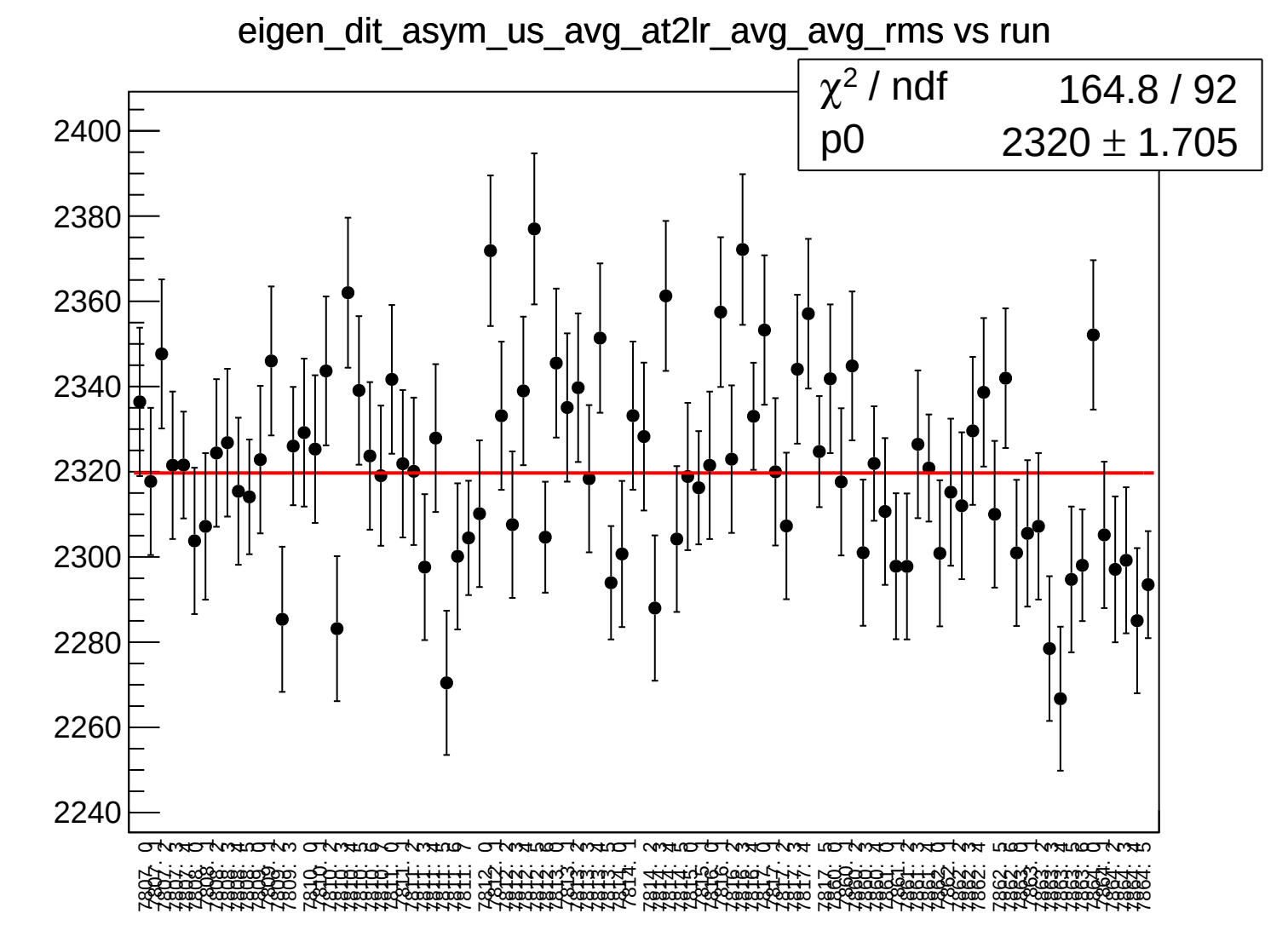

asym_us_avg_at2lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 84.07 / 92
p0 1.47e+04 ± 1.46e+04
400
200
0
−200
−400
−600
pull
Entries 93
Mean −45.07
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

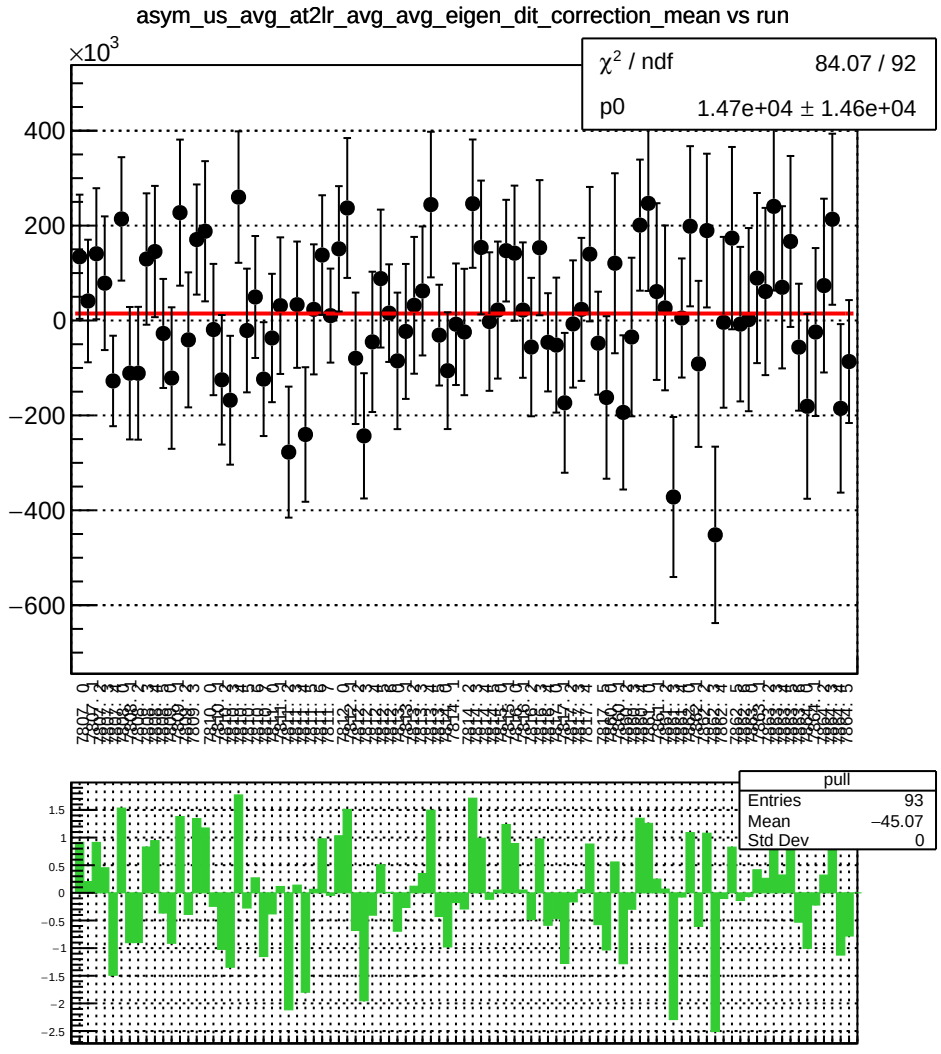

pull1D
Entries 93
Mean 0.01049
Std Dev 0.9507
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

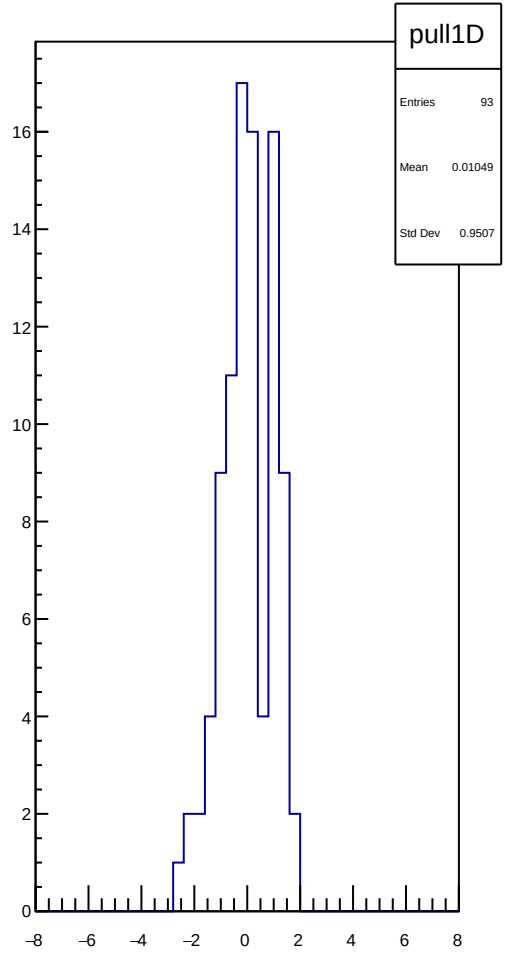

asym_us_avg_at2lr_avg_avg_dit_correction_rms vs run
χ² / ndf 2.628e+04 / 92
p0 1.395e+04 ± 10.32
19000
18000
17000
16000
15000
14000
13000
12000
11000

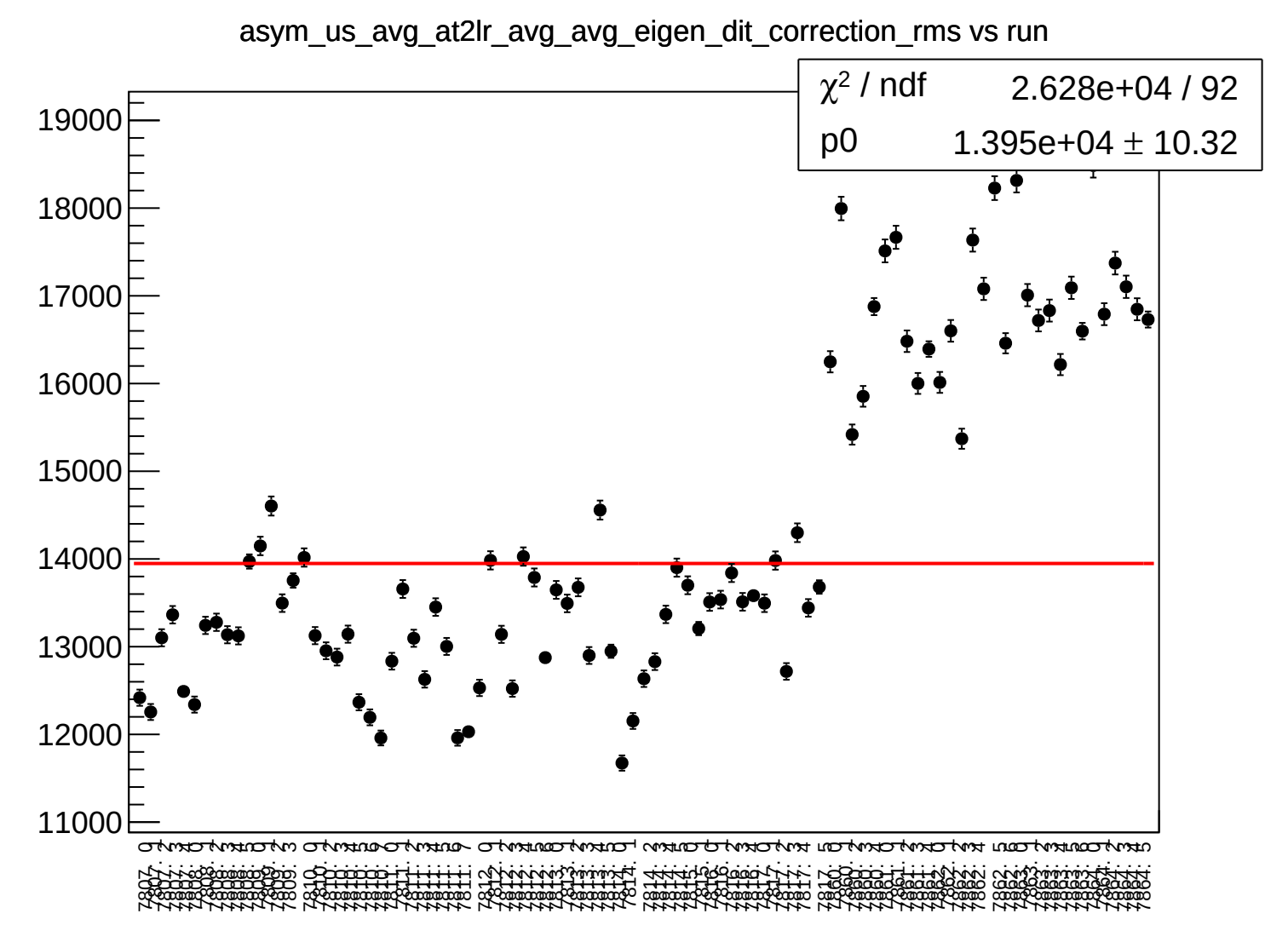

eigen_dit_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 107.9 / 92
p0 −2321 ± 2411
pull
Entries 93
Mean 62.48
Std Dev 0

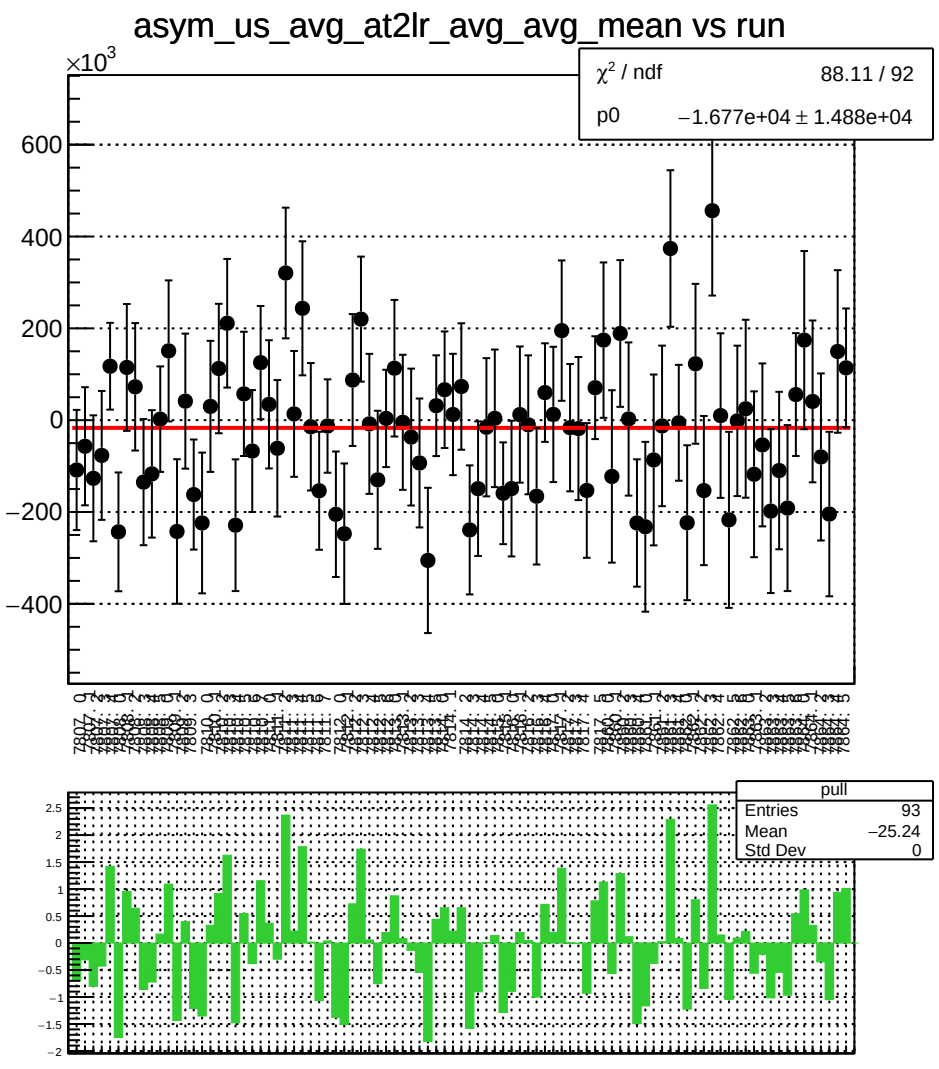

pull1D
Entries 93
Mean −0.01203
Std Dev 1.077

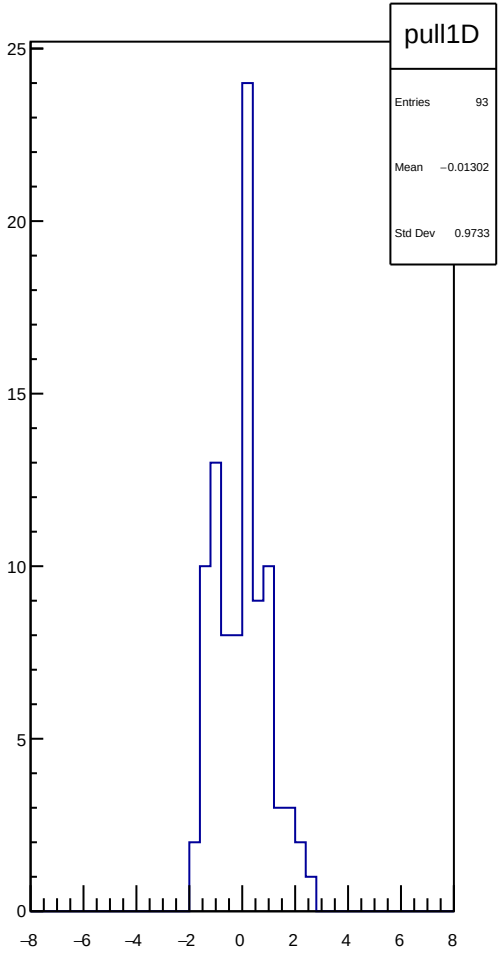

eigen_dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 164.8 / 92
p0 2320 ± 1.705
2400
2380
2360
2340
2320
2300
2280
2260
2240

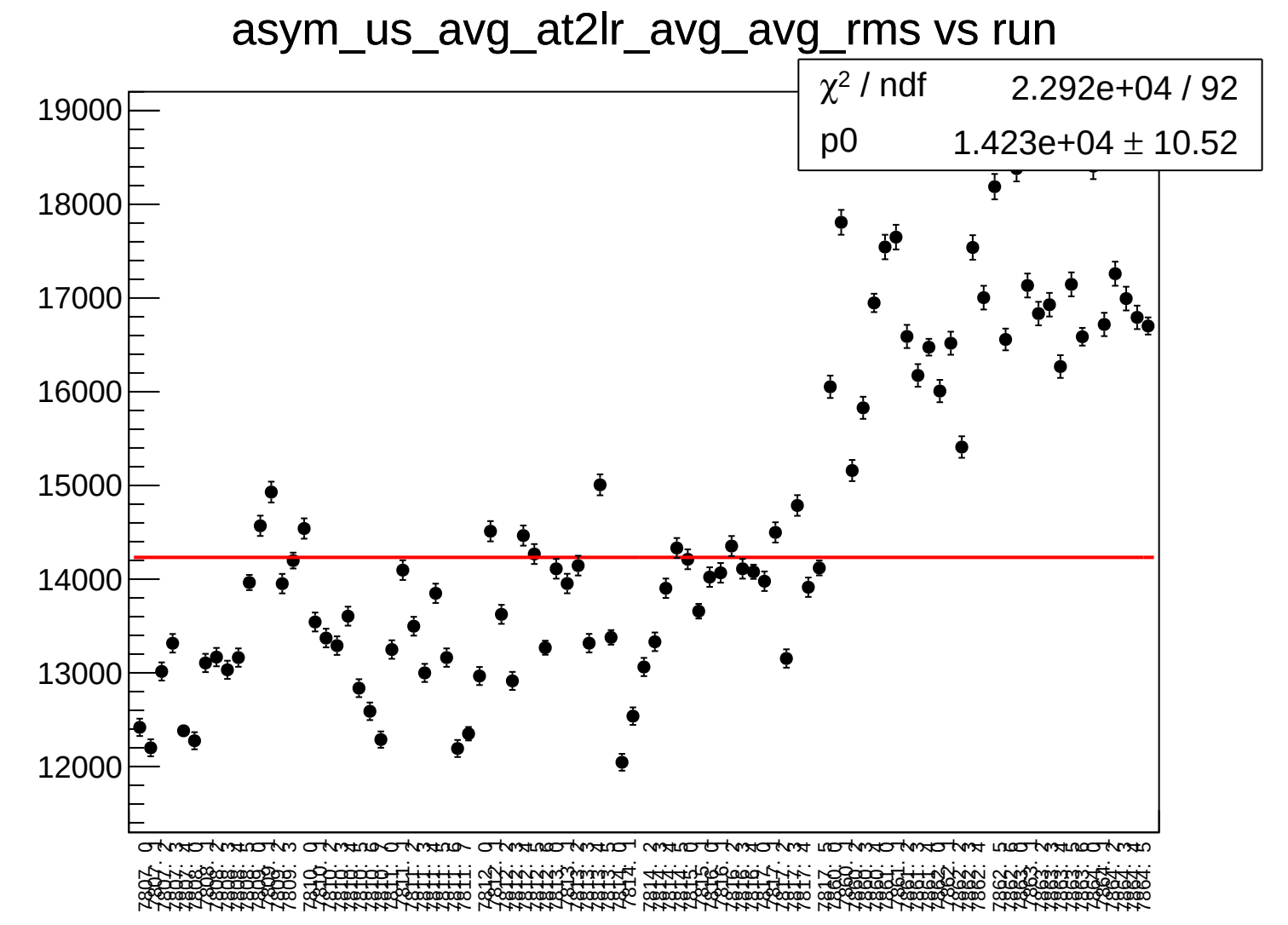

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 84.07 / 92
p0 1.47e+04 ± 1.46e+04
400
200
0
−200
−400
−600
pull
Entries 93
Mean −45.07
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

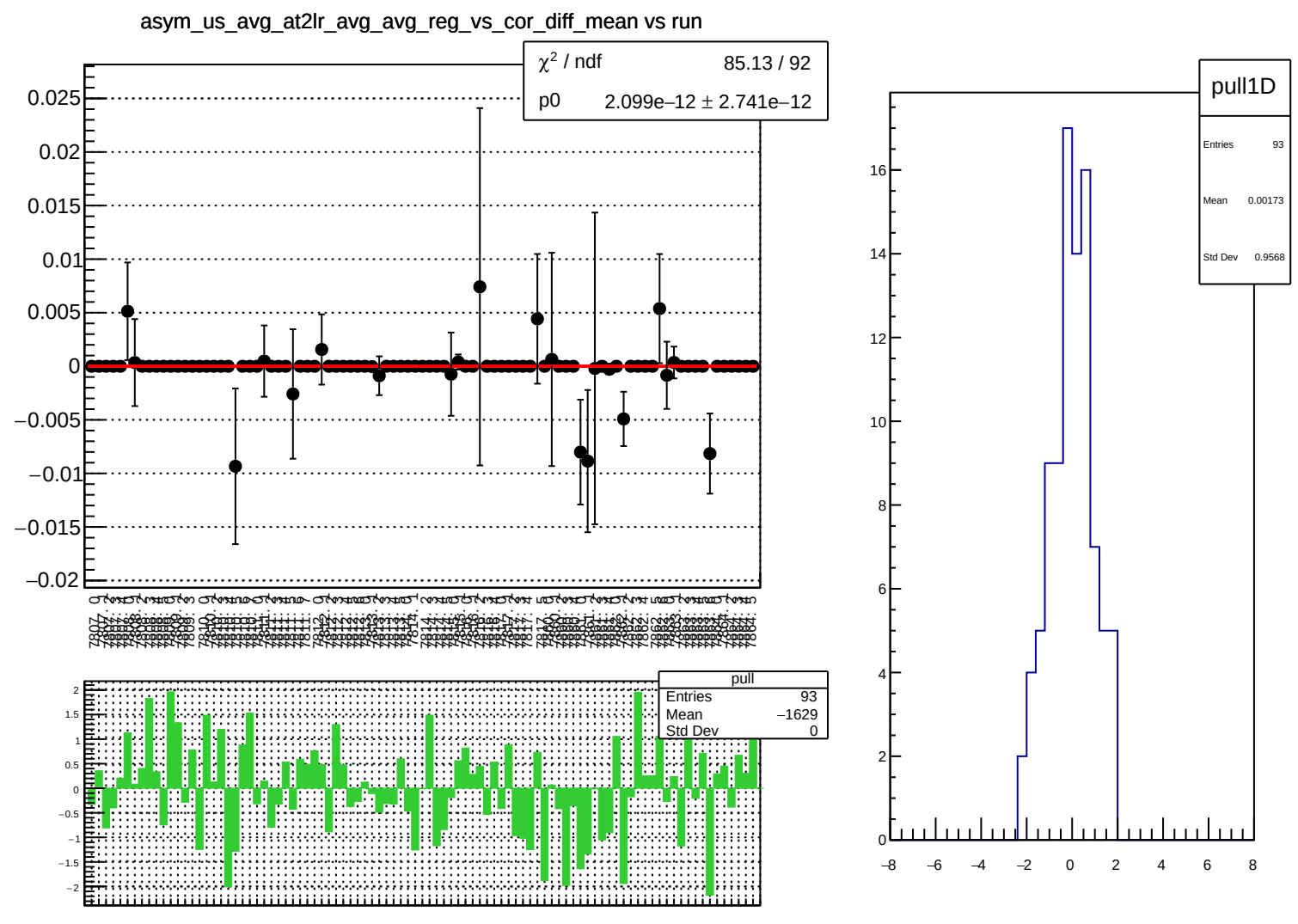

pull1D
Entries 93
Mean 0.01049
Std Dev 0.9507
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

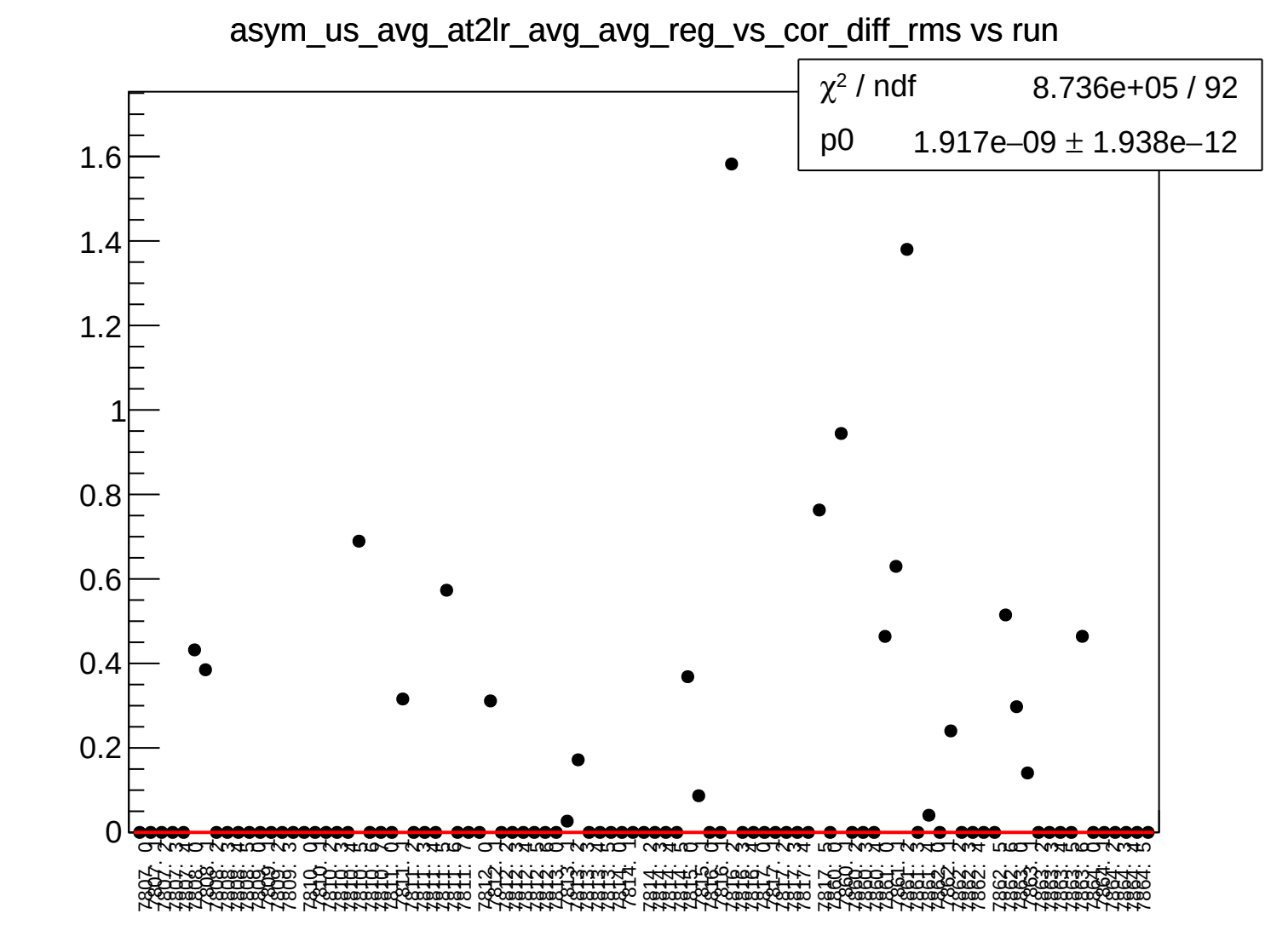

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.628e+04 / 92
p0 1.395e+04 ± 10.32
19000
18000
17000
16000
15000
14000
13000
12000
11000

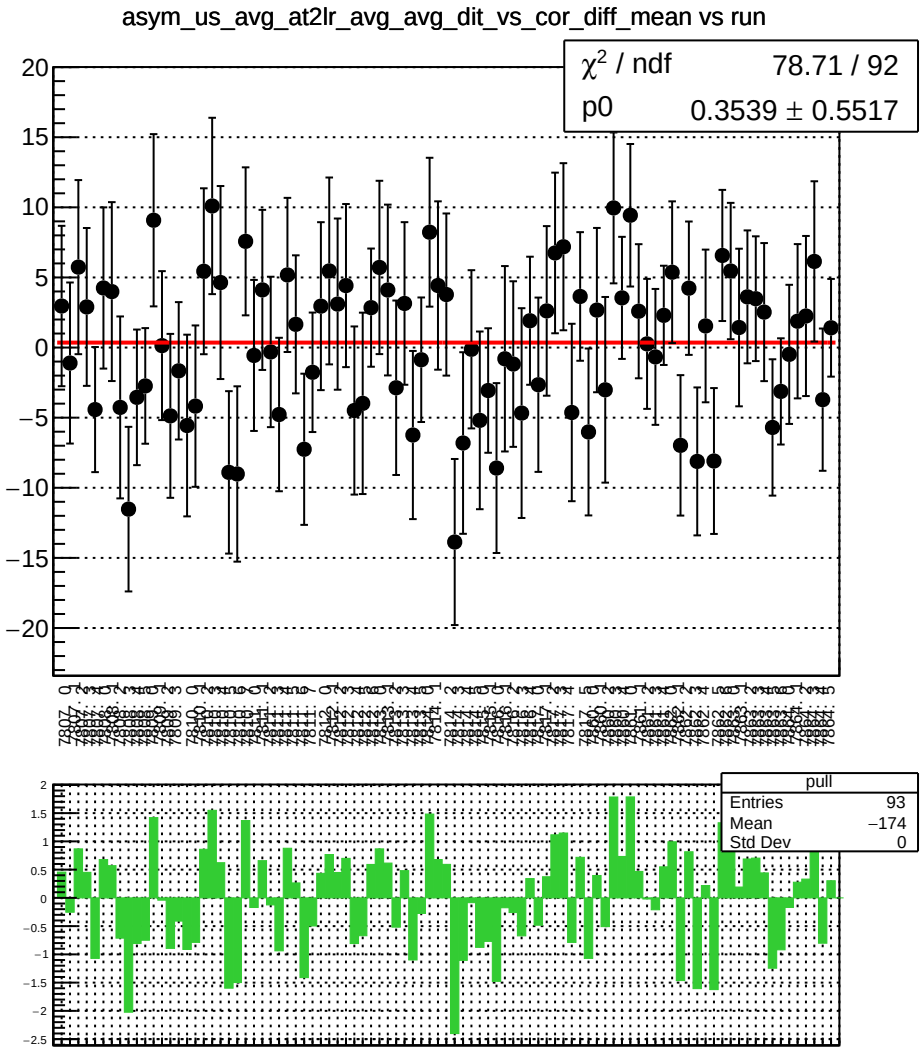

asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 88.11 / 92
p0 −1.677e+04 ± 1.488e+04
600
400
200
0
−200
−400
pull
Entries 93
Mean −25.24
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

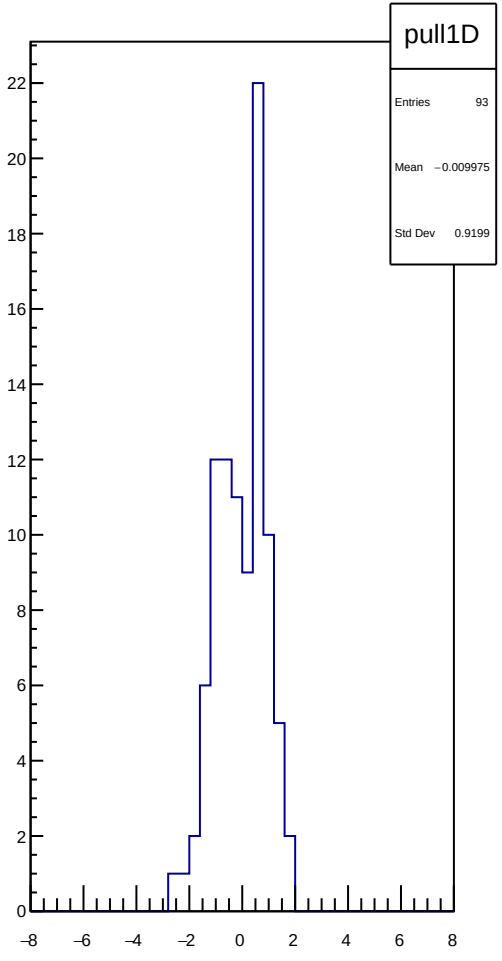

pull1D
Entries 93
Mean −0.01302
Std Dev 0.9733
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

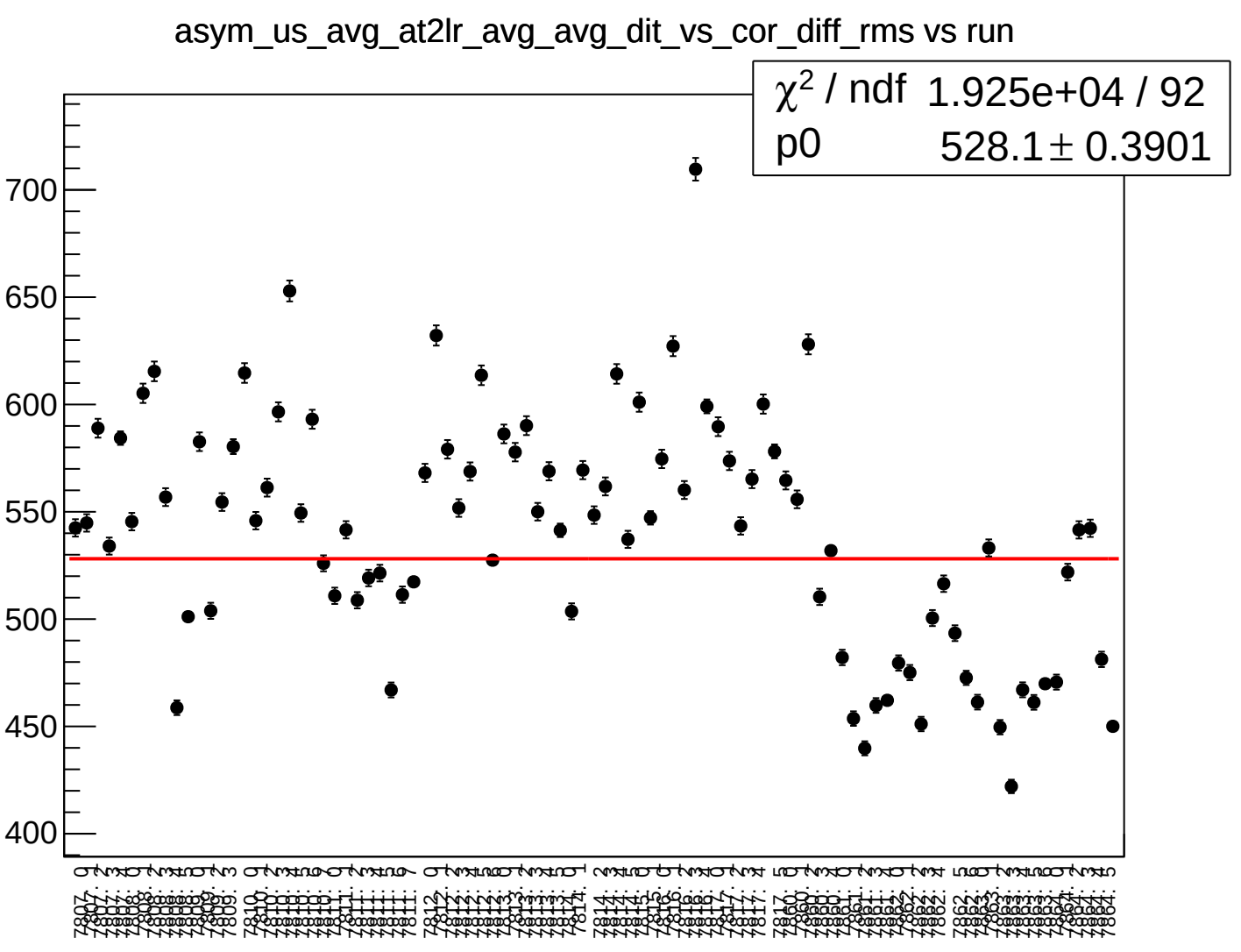

asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 2.292e+04 / 92
p0 1.423e+04 ± 10.52
19000
18000
17000
16000
15000
14000
13000
12000

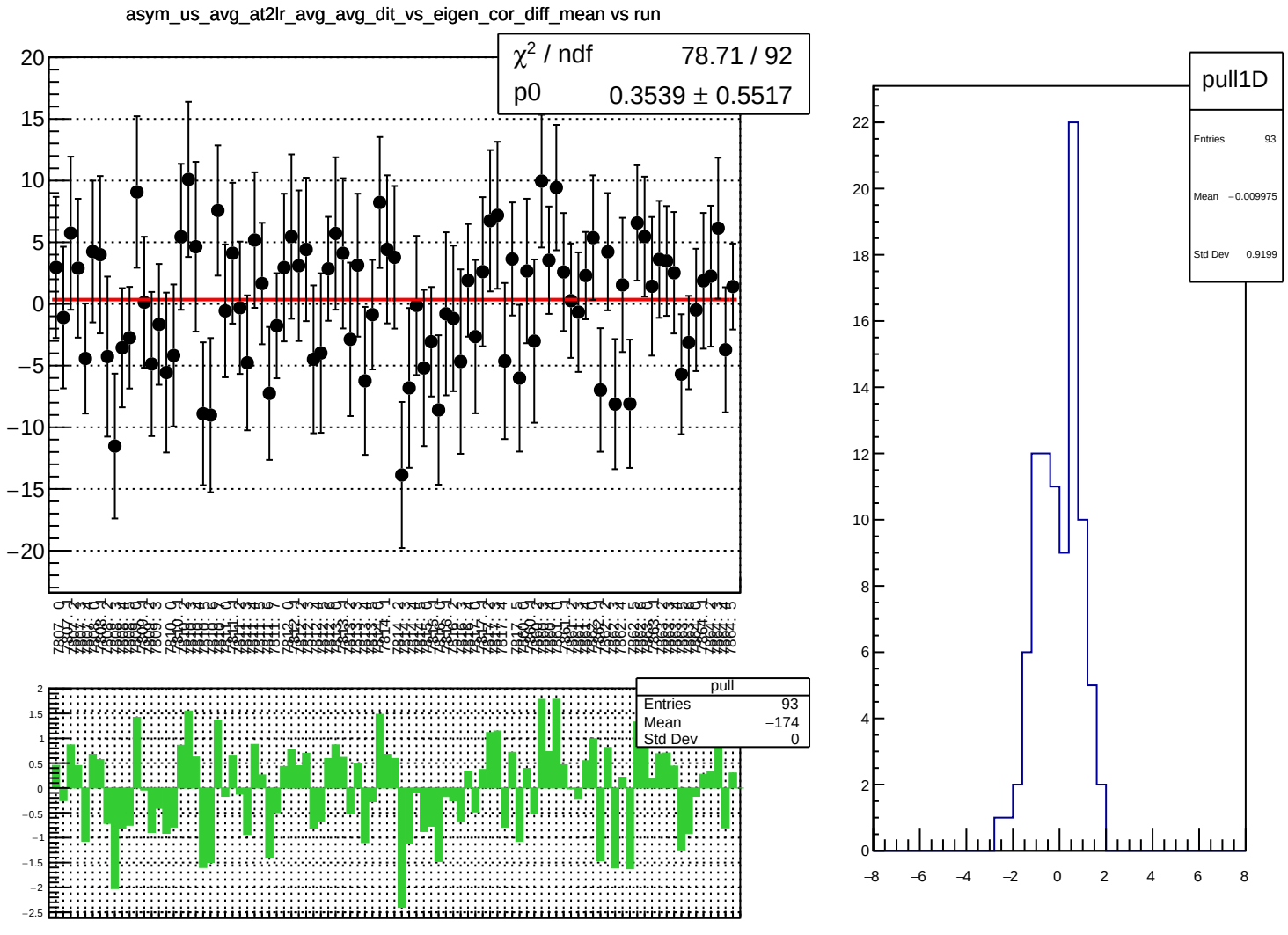

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 85.13 / 92
p0 2.099e−12 ± 2.741e−12
pull
Entries 93
Mean −1629
Std Dev 0
pull1D
Entries 93
Mean 0.00173
Std Dev 0.9568

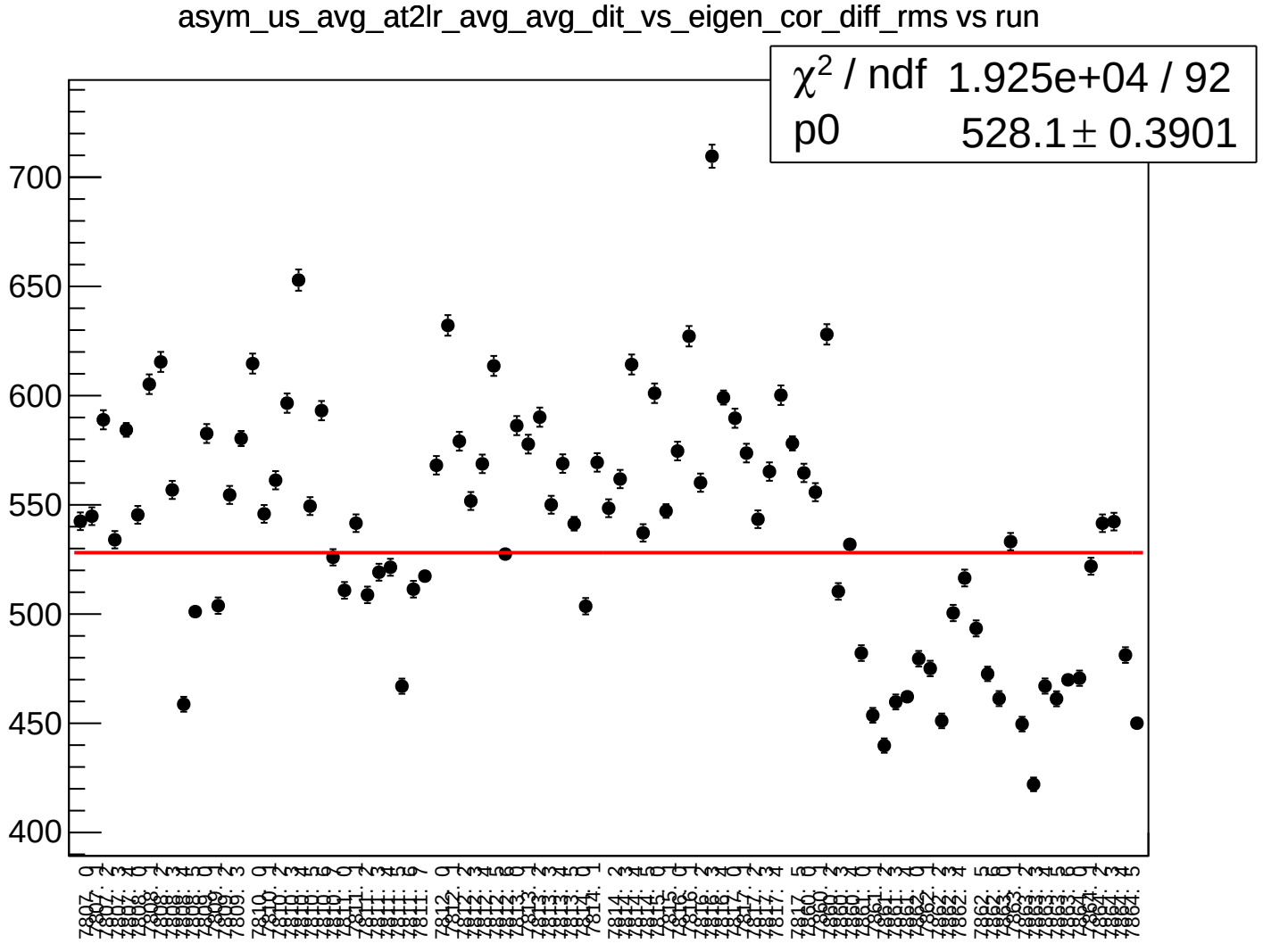

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.736e+05 / 92
p0 1.917e−09 ± 1.938e−12
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

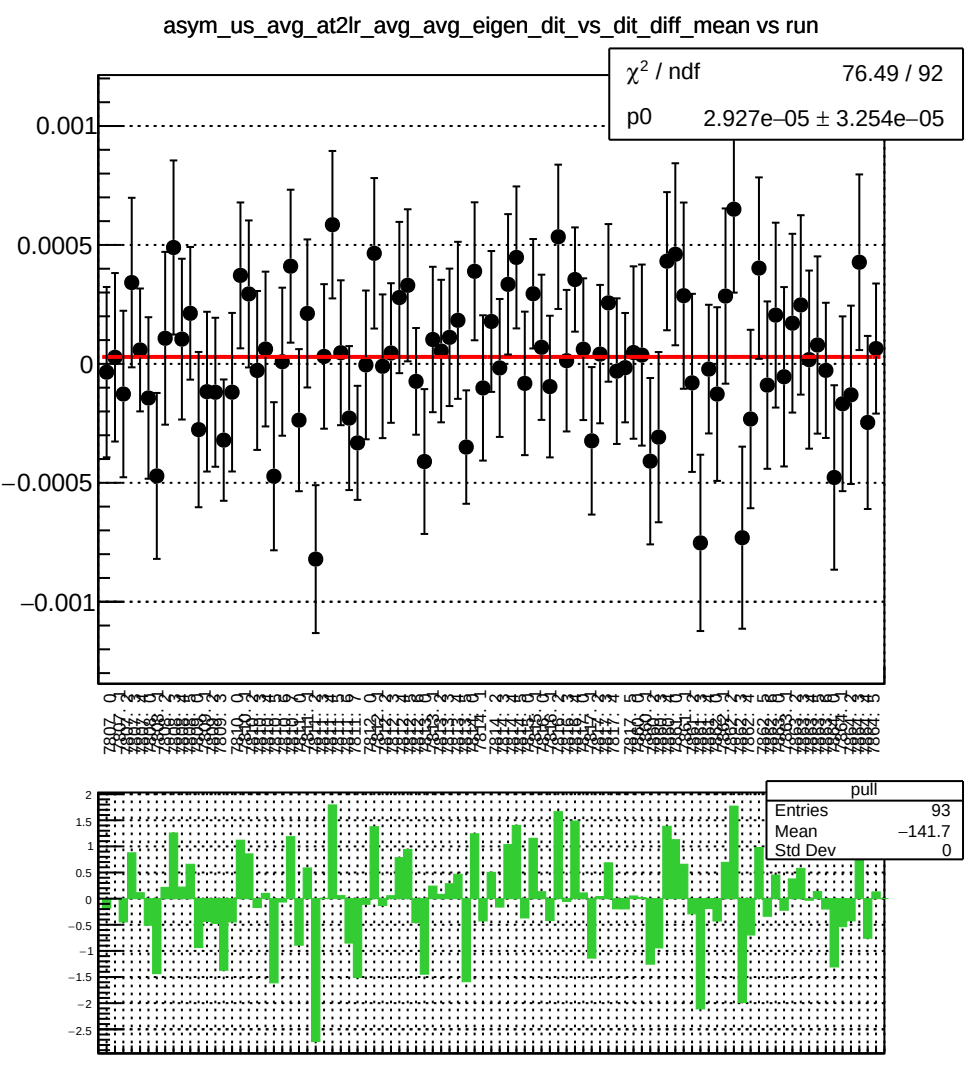

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 78.71 / 92
p0 0.3539 ± 0.5517
pull
Entries 93
Mean −174
Std Dev 0

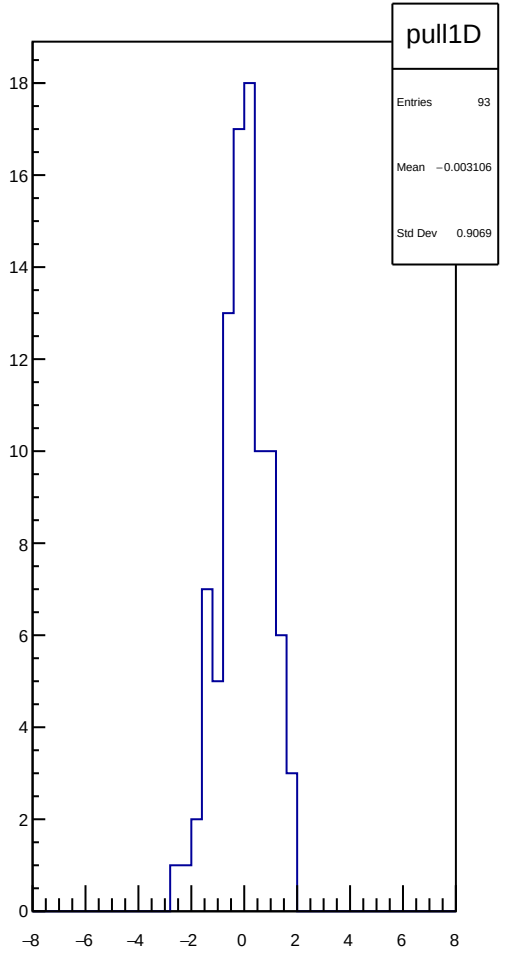

pull1D
Entries 93
Mean −0.009975
Std Dev 0.9199

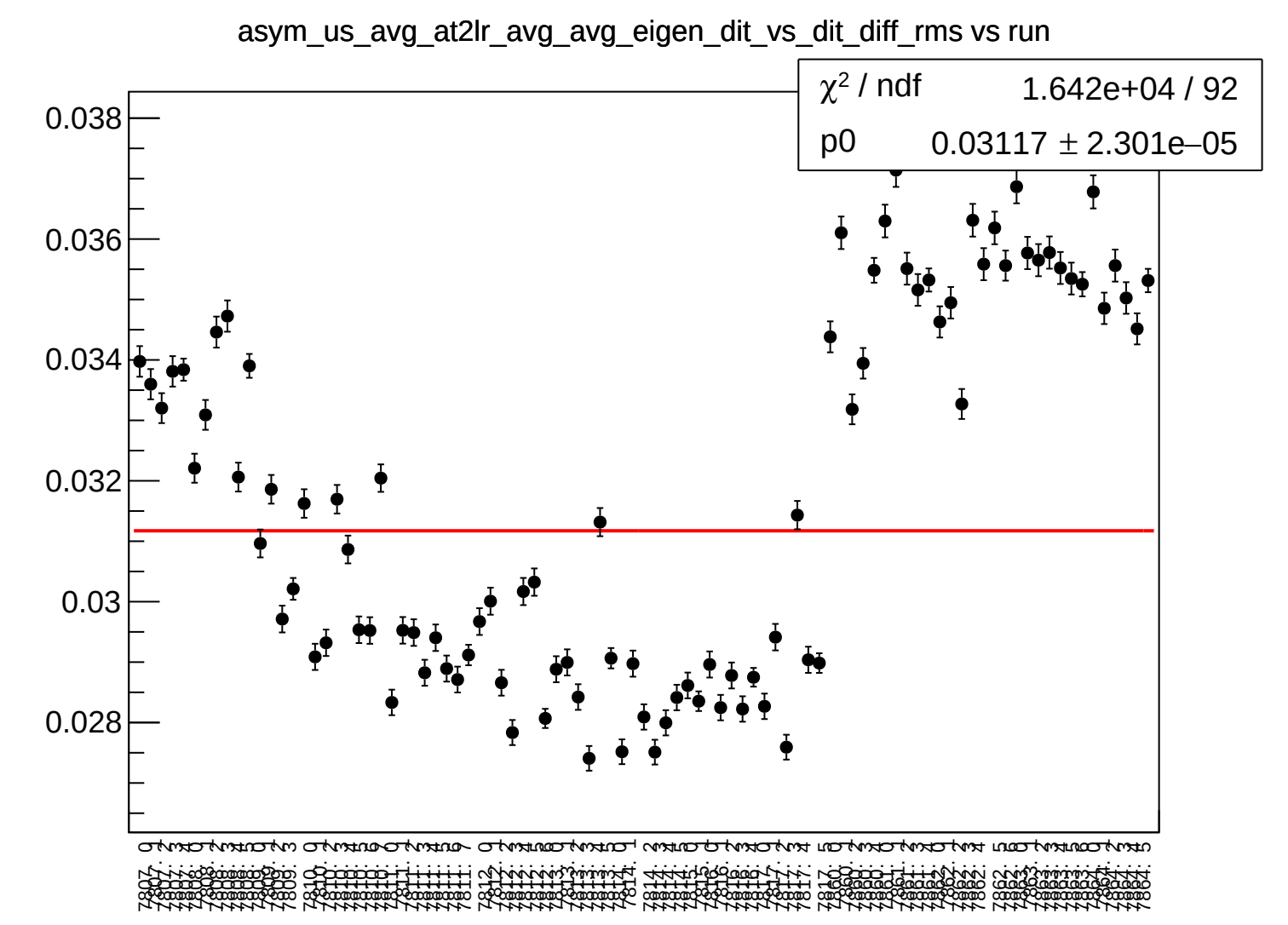

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.925e+04 / 92
p0 528.1 ± 0.3901
700
650
600
550
500
450
400

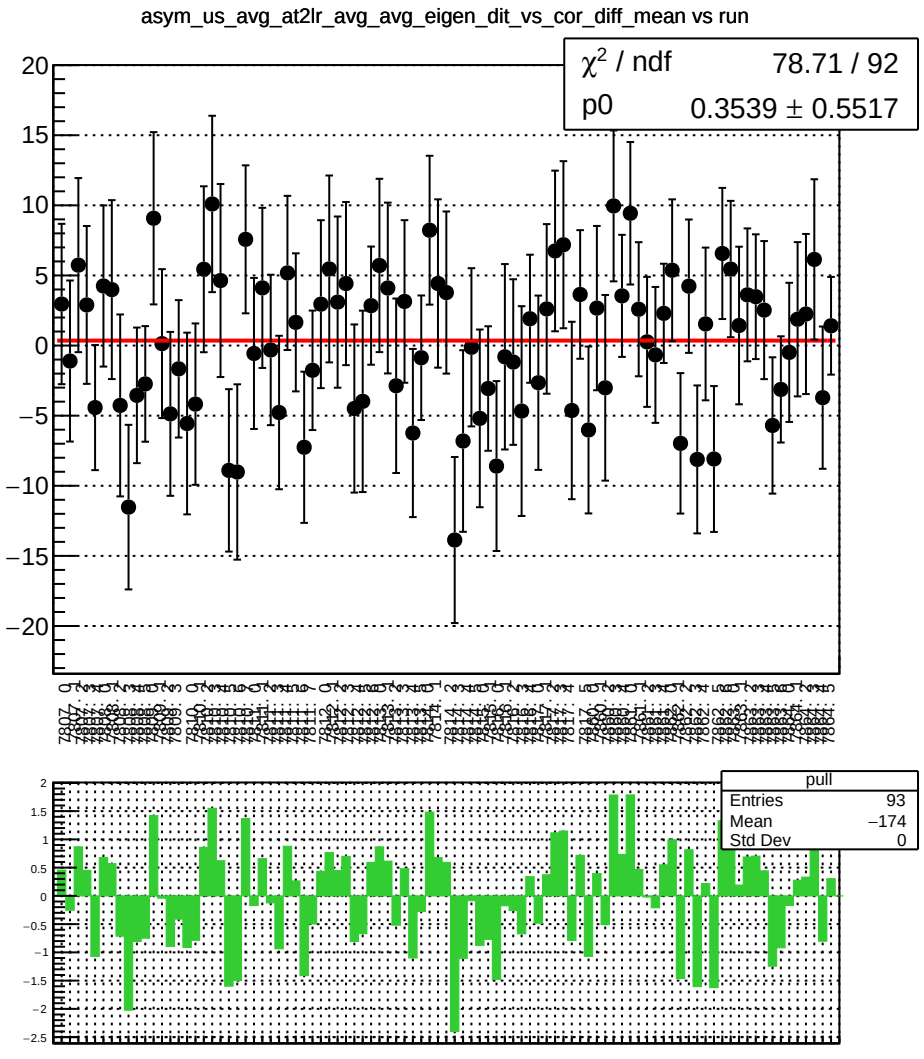

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.71 / 92
p0 0.3539 ± 0.5517
pull
Entries 93
Mean −174
Std Dev 0
pull1D
Entries 93
Mean −0.009975
Std Dev 0.9199

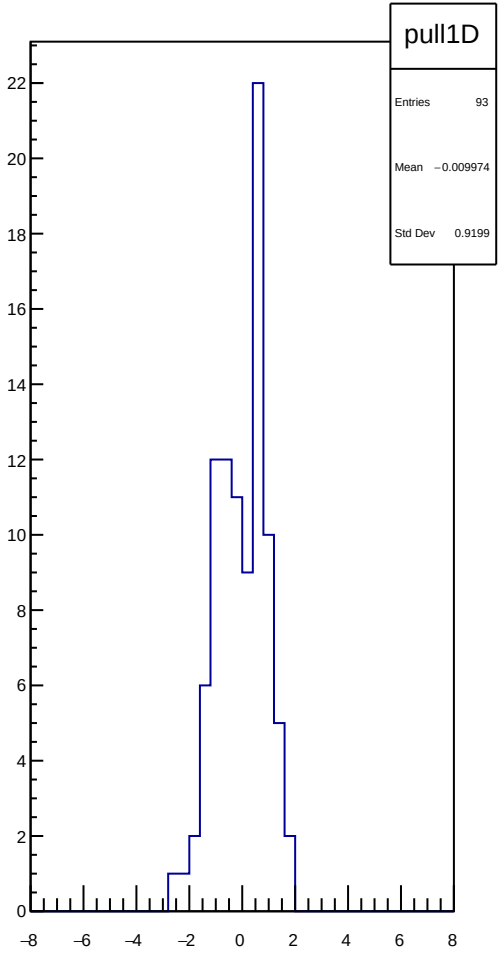

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.925e+04 / 92
p0 528.1 ± 0.3901
700
650
600
550
500
450
400

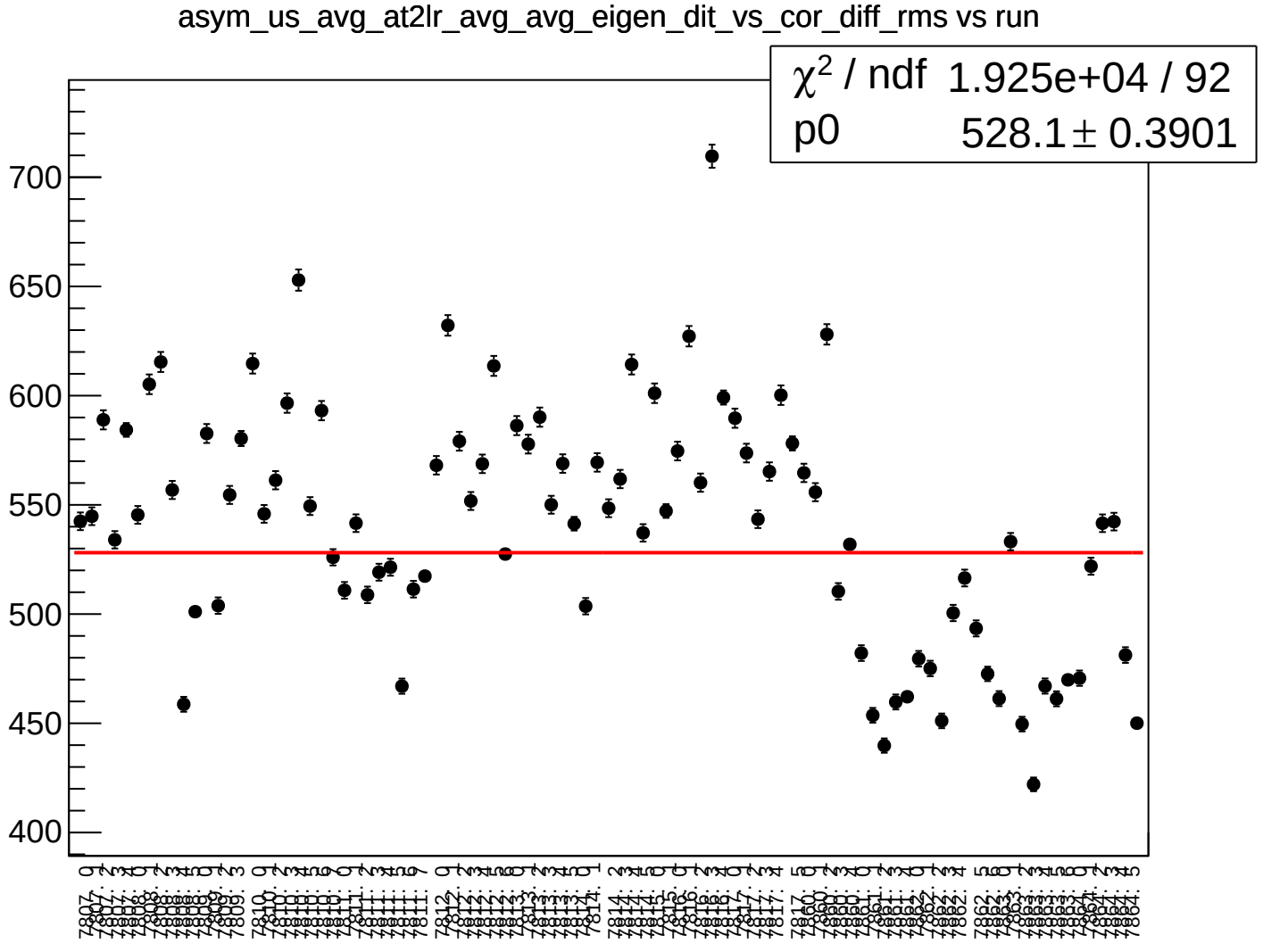

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 76.49 / 92
p0 2.927e−05 ± 3.254e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 93
Mean −141.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

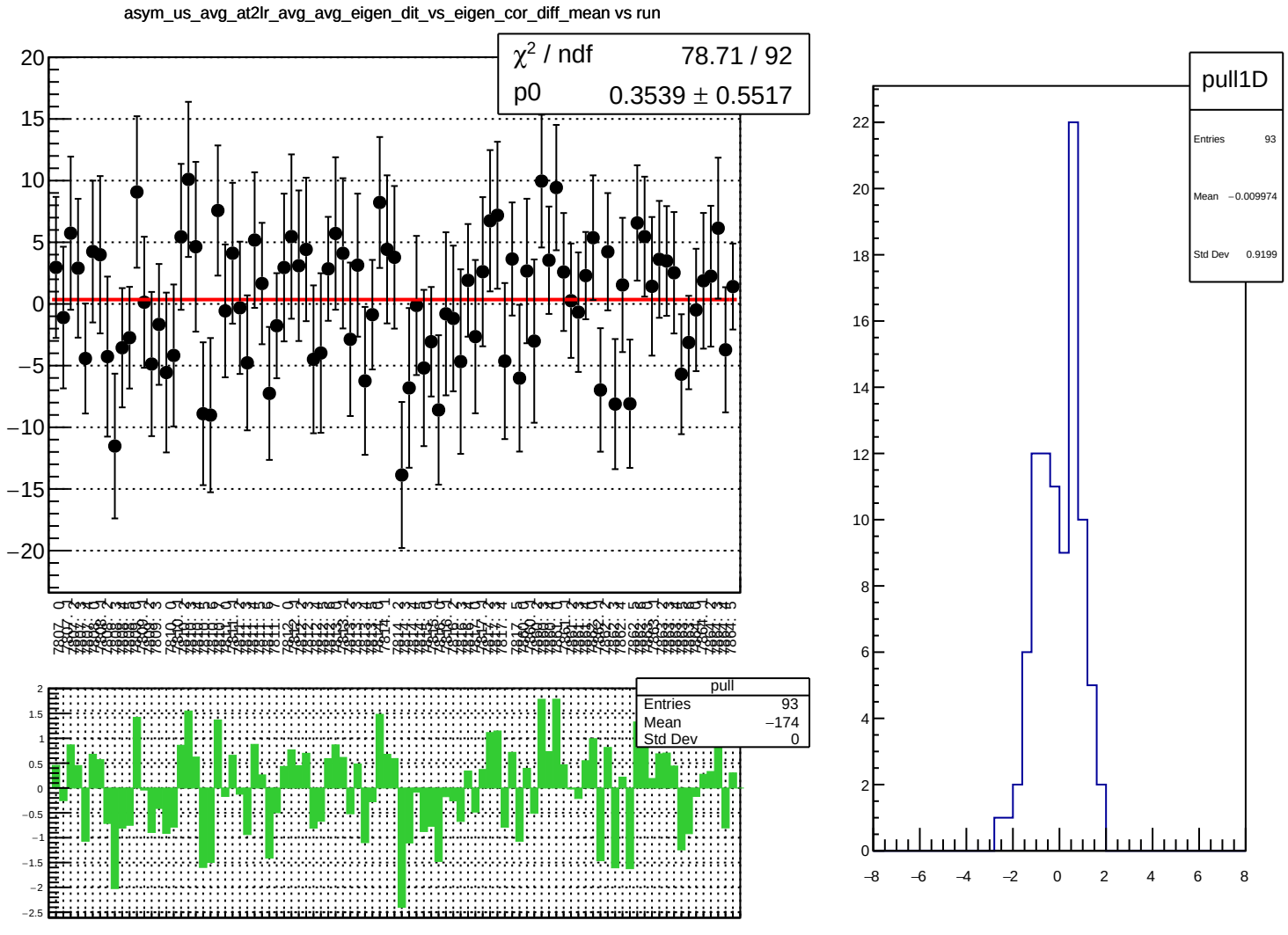

pull1D
Entries 93
Mean −0.003106
Std Dev 0.9069
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

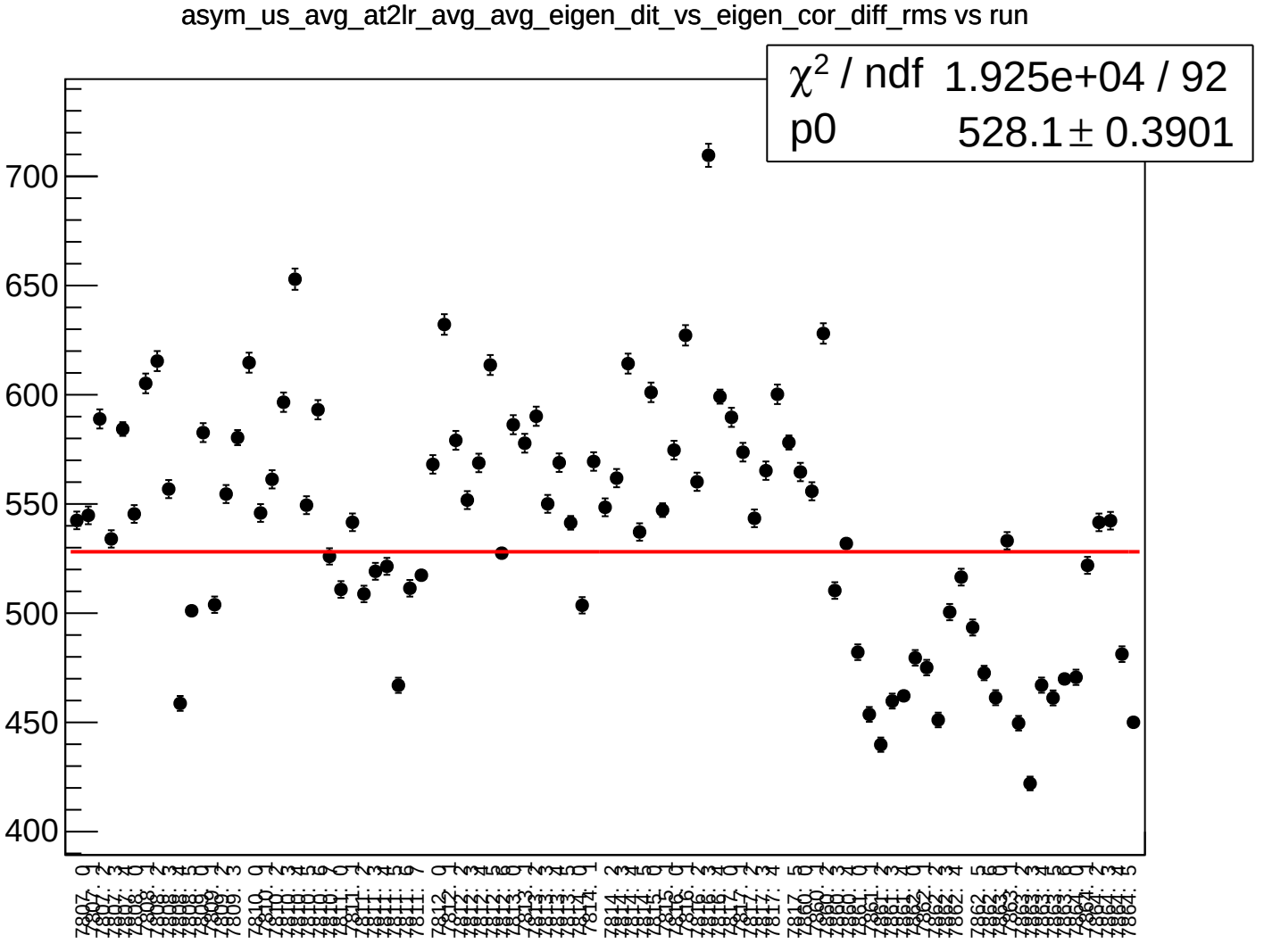

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.642e+04 / 92
p0 0.03117 ± 2.301e−05
0.038
0.036
0.034
0.032
0.03
0.028

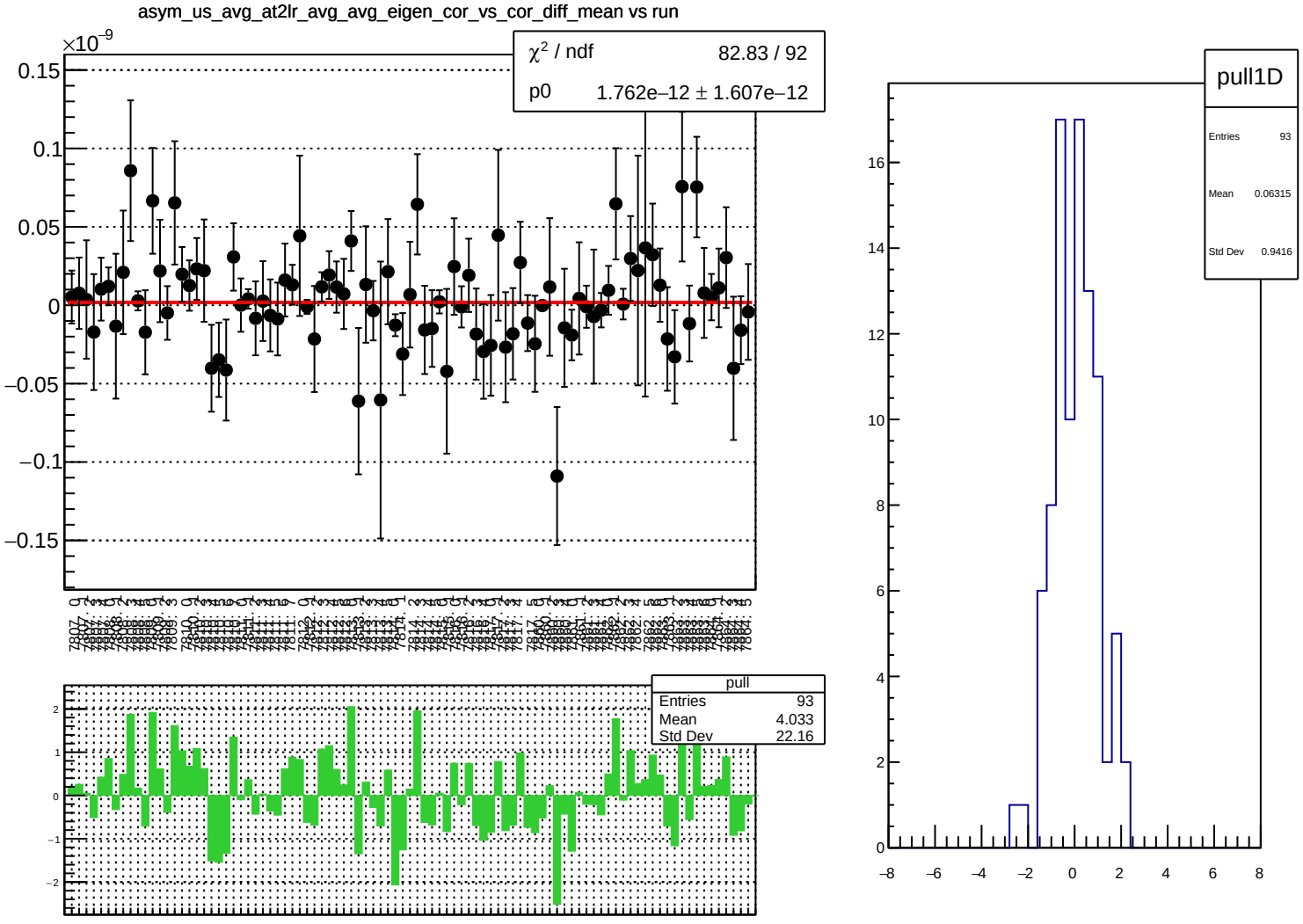

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.71 / 92
p0 0.3539 ± 0.5517
pull
Entries 93
Mean −174
Std Dev 0

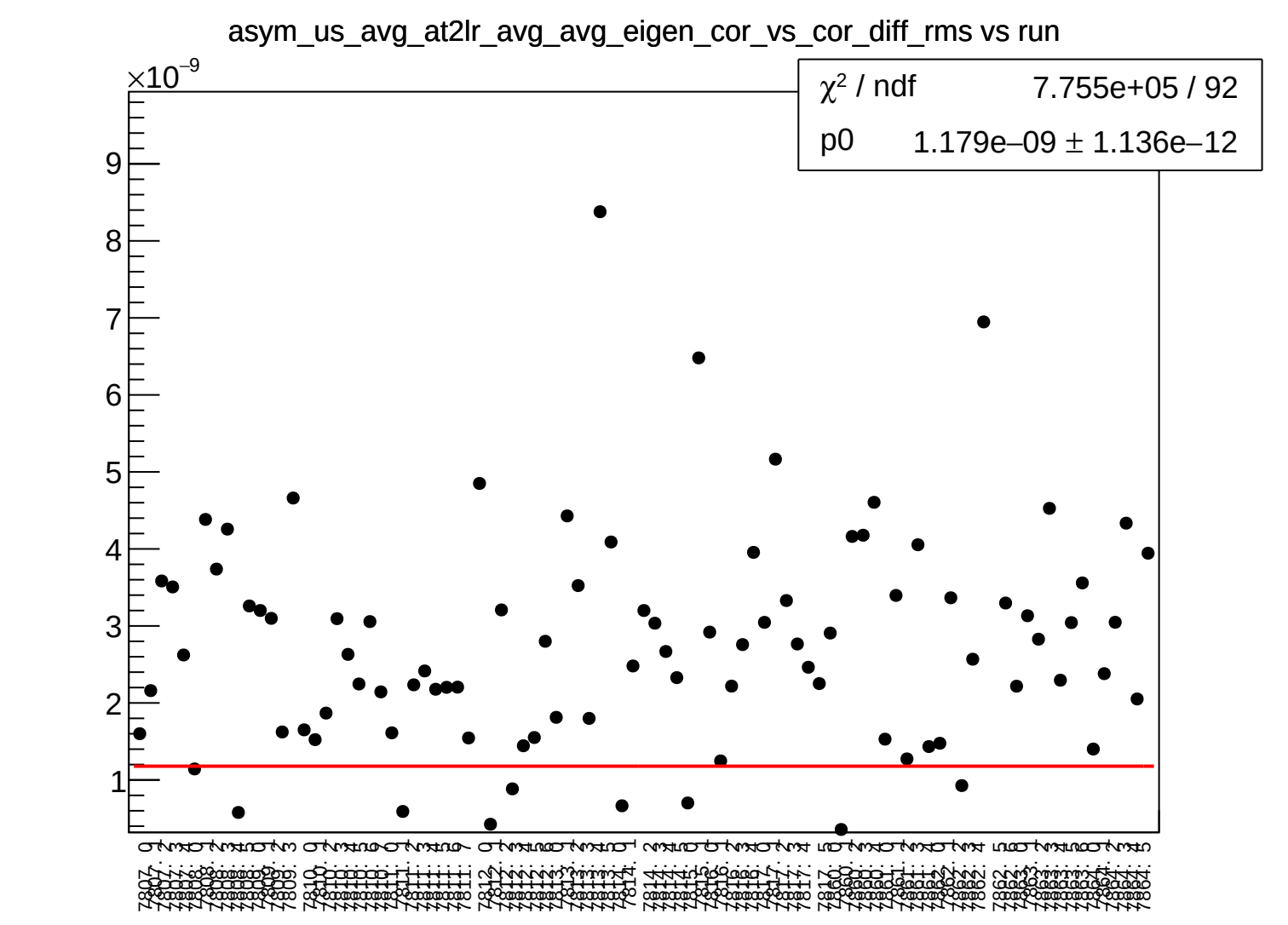

pull1D
Entries 93
Mean −0.009974
Std Dev 0.9199

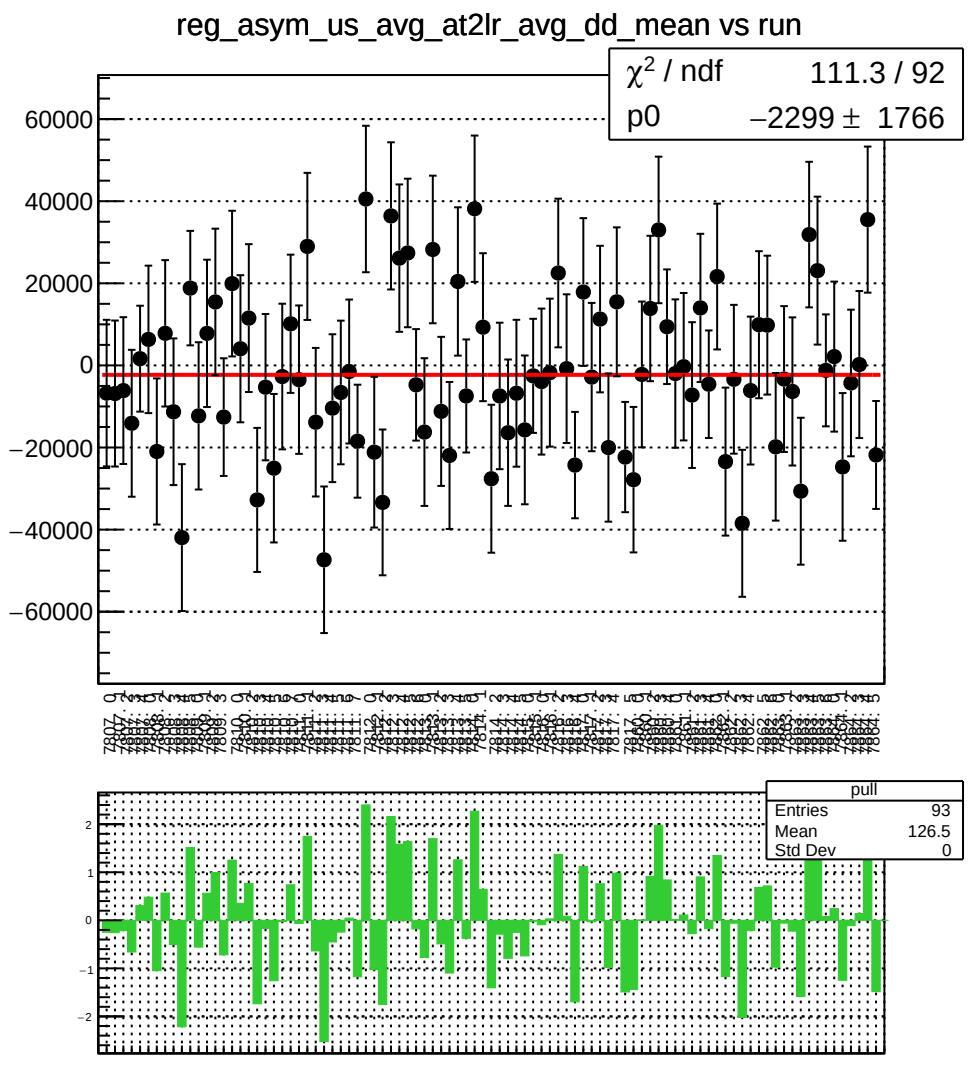

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.925e+04 / 92
p0 528.1 ± 0.3901
700
650
600
550
500
450
400

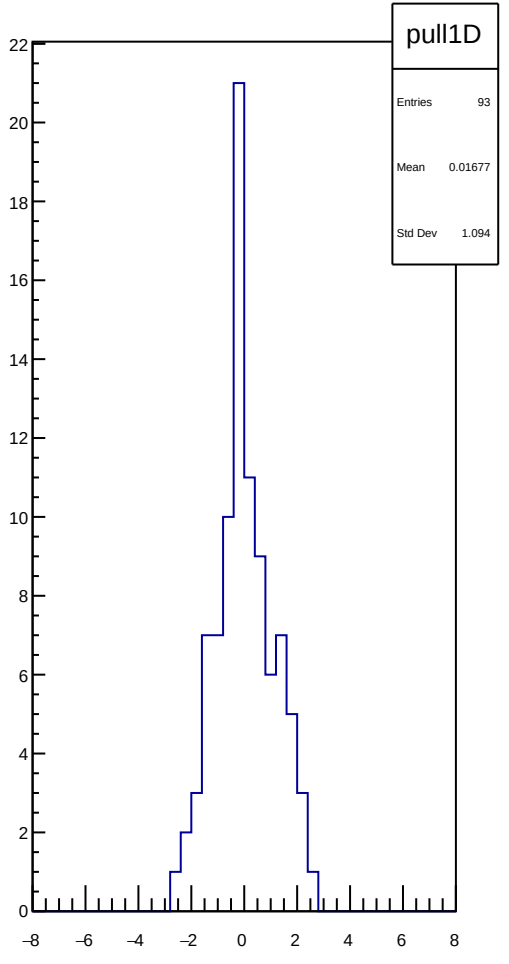

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.71 / 92
p0 0.3539 ± 0.5517
pull
Entries 93
Mean −174
Std Dev 0
pull1D
Entries 93
Mean −0.009974
Std Dev 0.9199

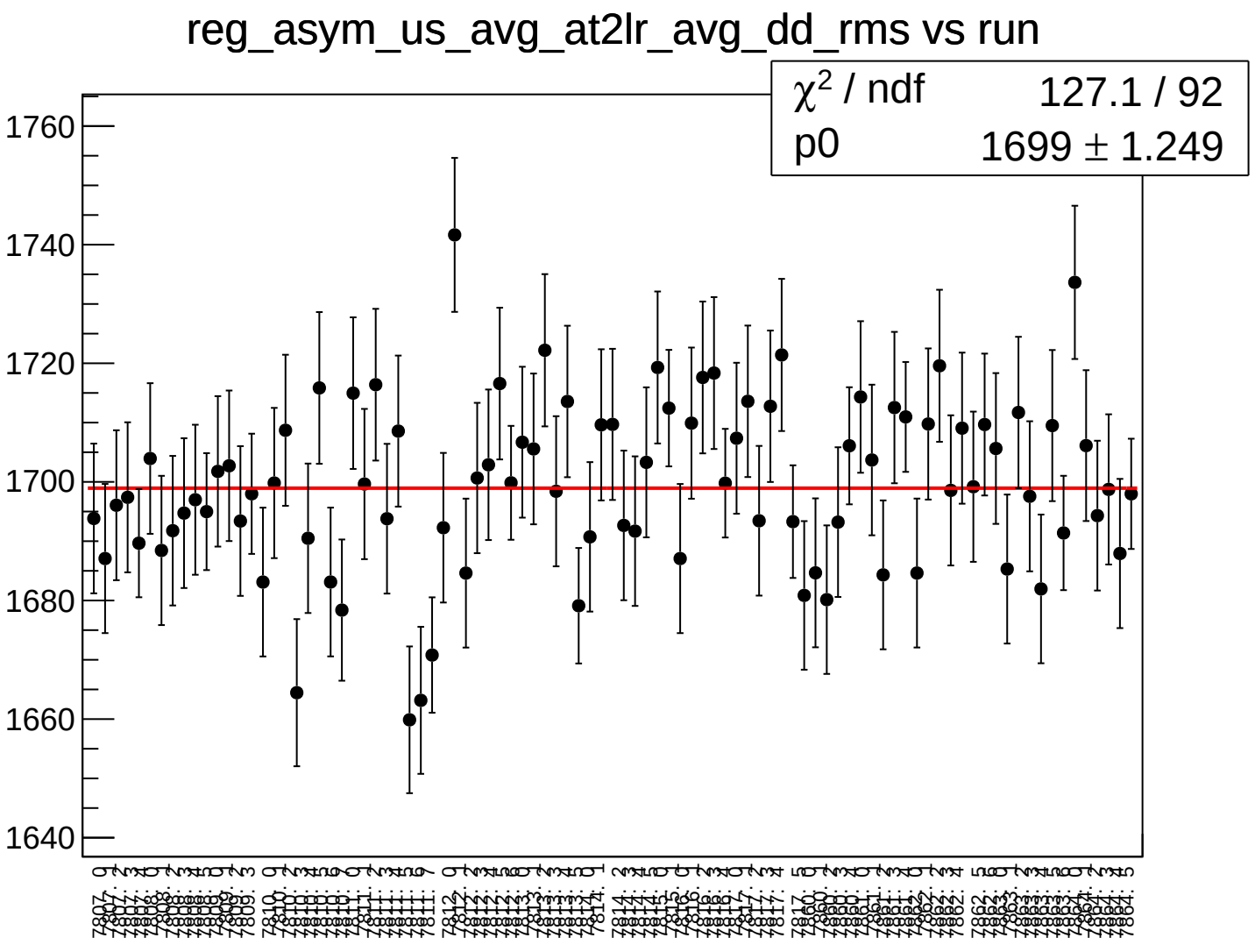

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.925e+04 / 92
p0 528.1 ± 0.3901
700
650
600
550
500
450
400

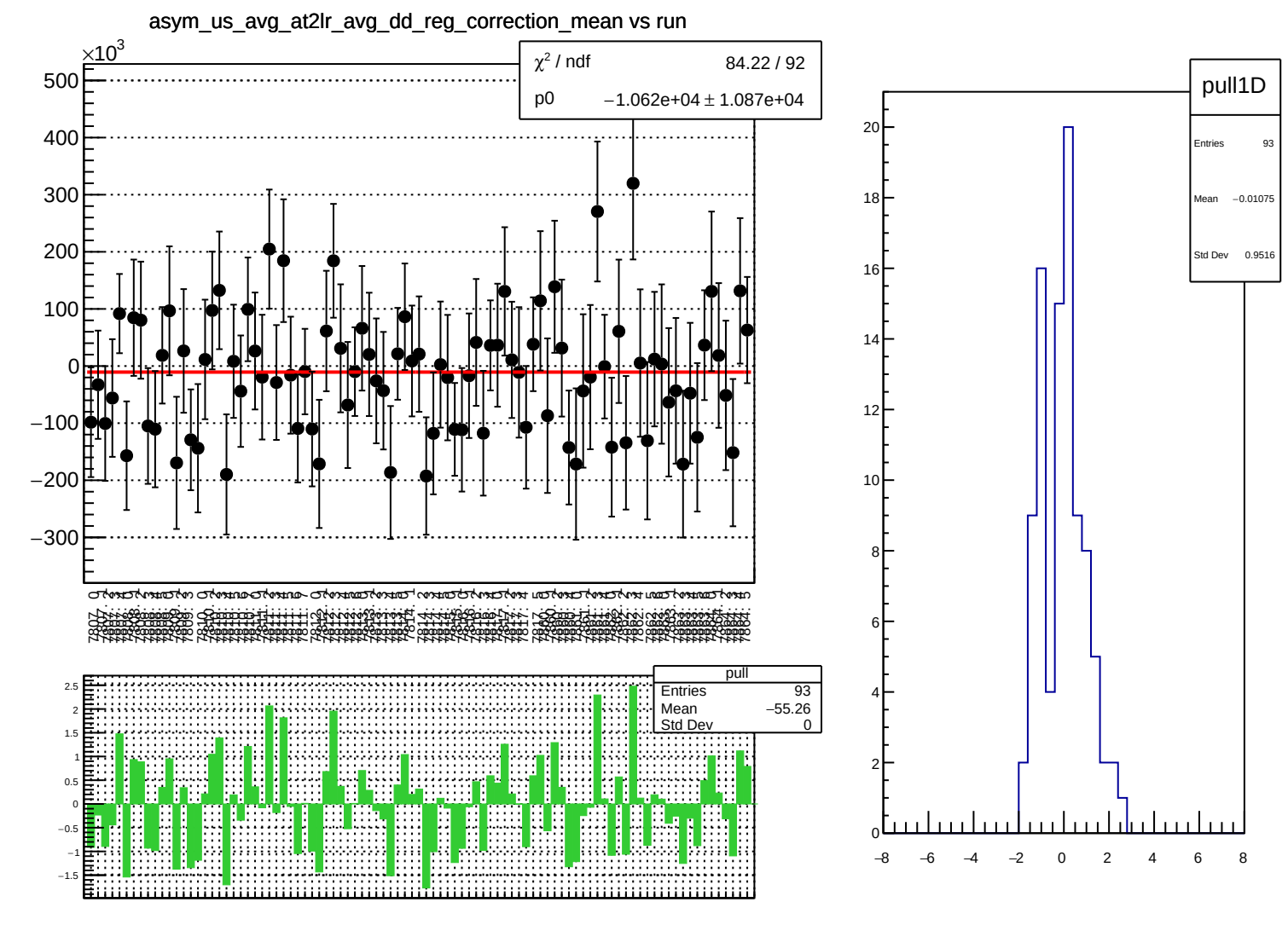

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 82.83 / 92
p0 1.762e−12 ± 1.607e−12
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 93
Mean 4.033
Std Dev 22.16
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.06315
Std Dev 0.9416
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

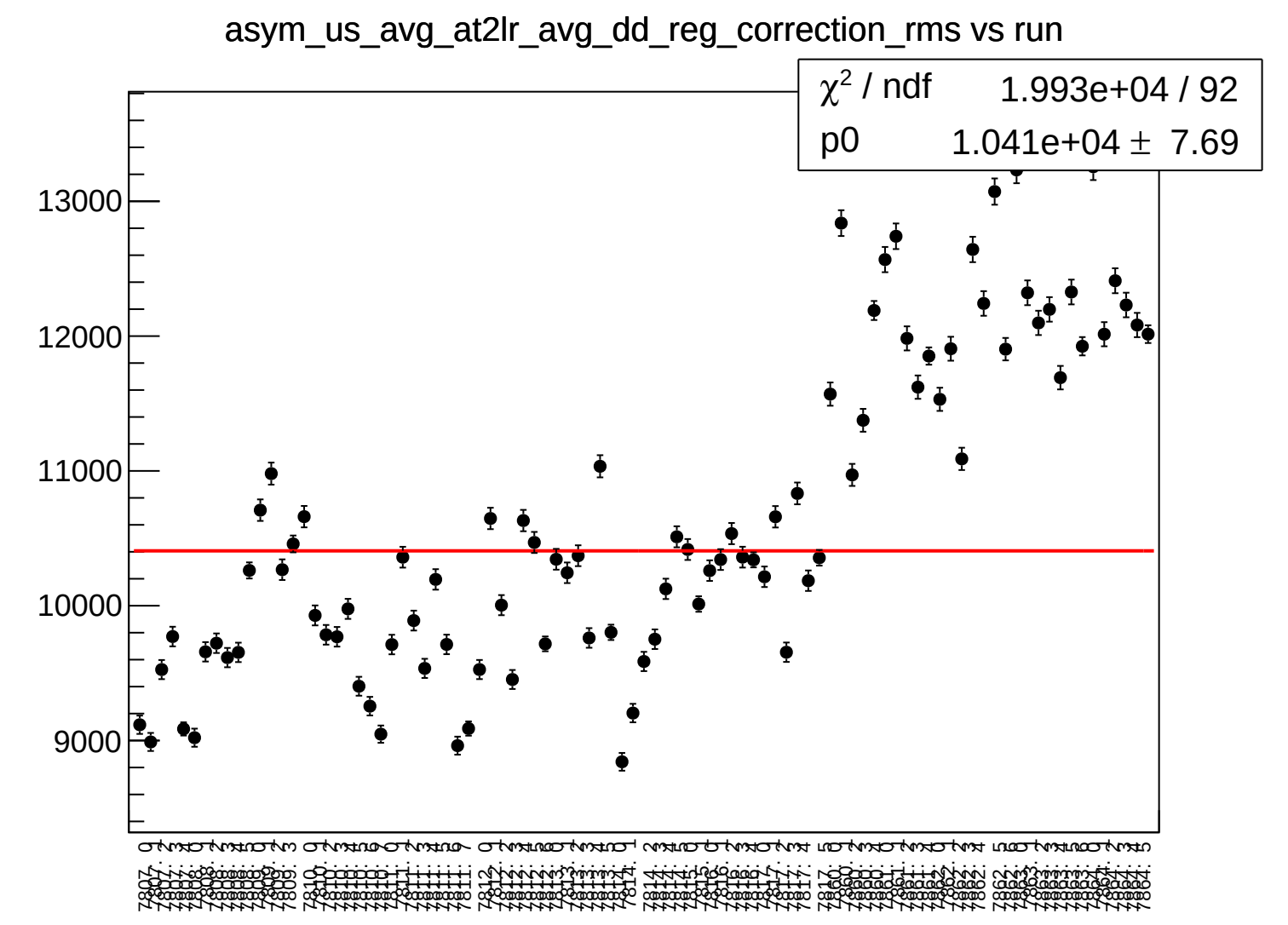

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.755e+05 / 92
p0 1.179e−09 ± 1.136e−12
9
8
7
6
5
4
3
2
1

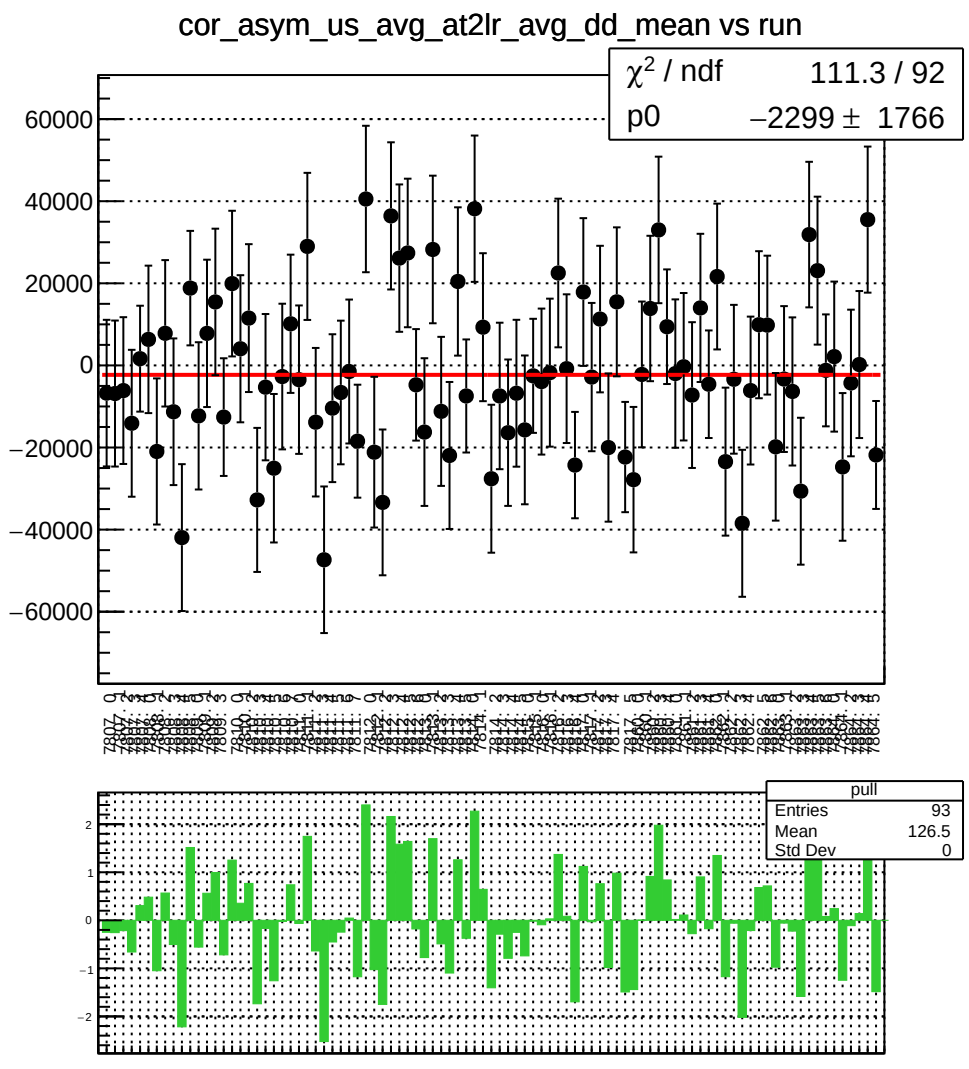

reg_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 111.3 / 92
p0 −2299 ± 1766
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 126.5
Std Dev 0
2
1
0
−1
−2

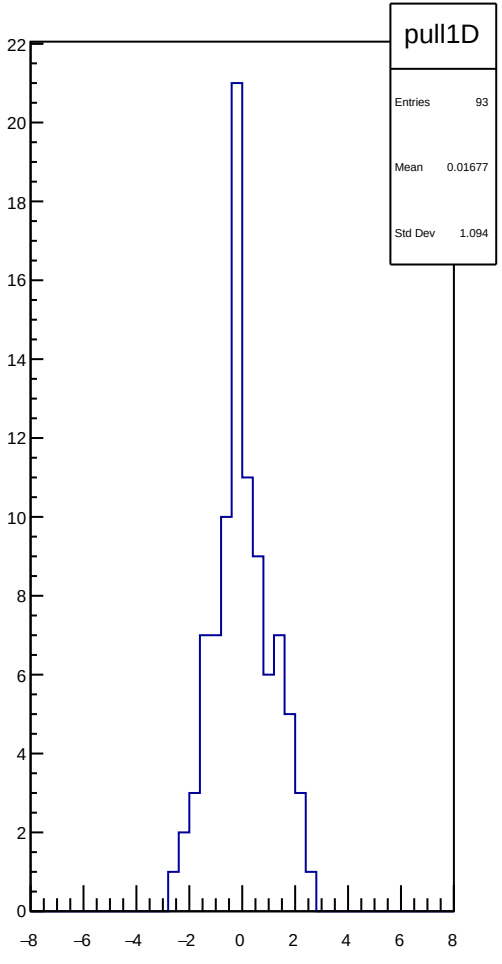

pull1D
Entries 93
Mean 0.01677
Std Dev 1.094
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

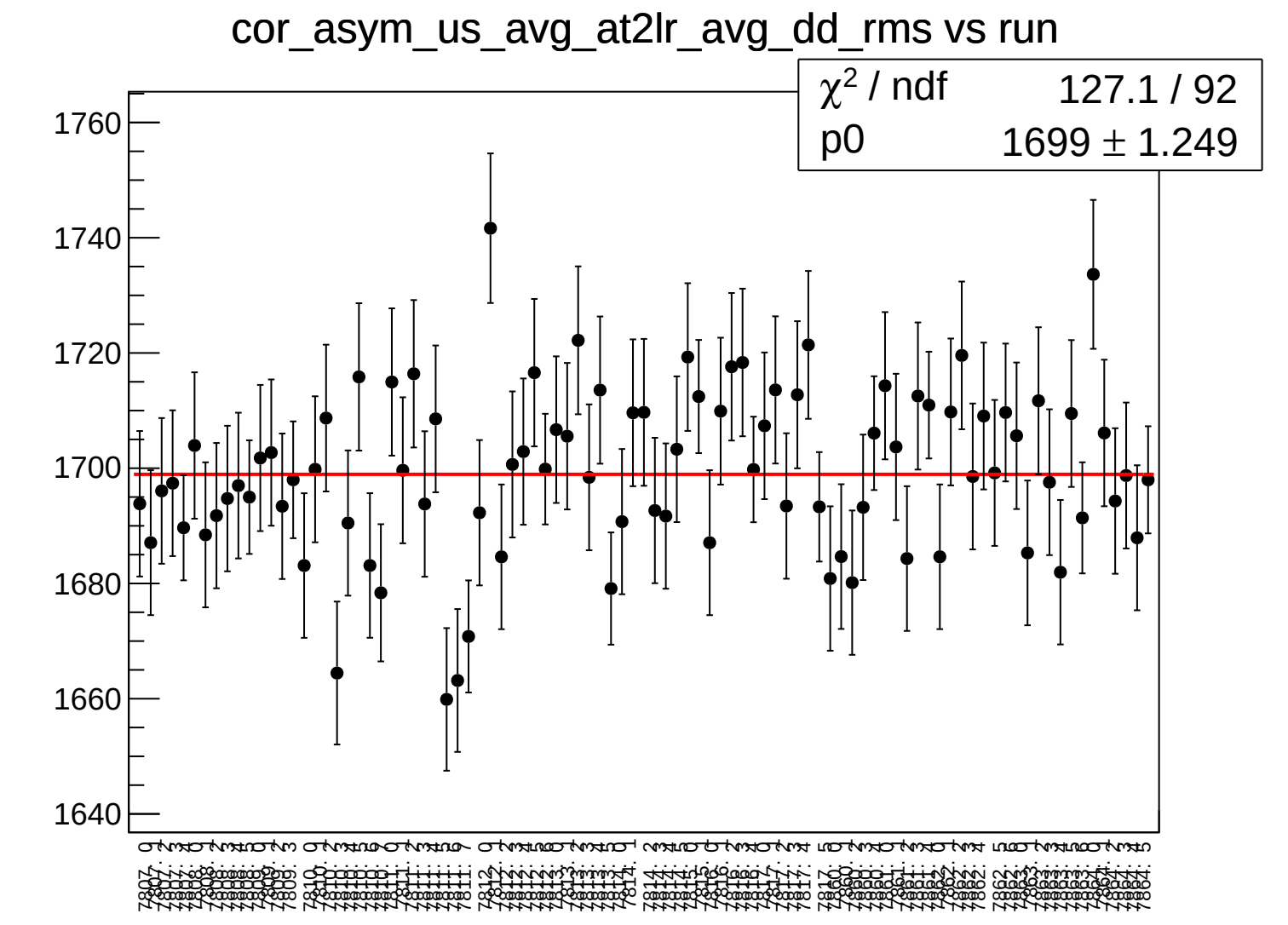

reg_asym_us_avg_at2lr_avg_dd_rms vs run
χ^2 / ndf 127.1 / 92
p0 1699 ± 1.249
1760
1740
1720
1700
1680
1660
1640

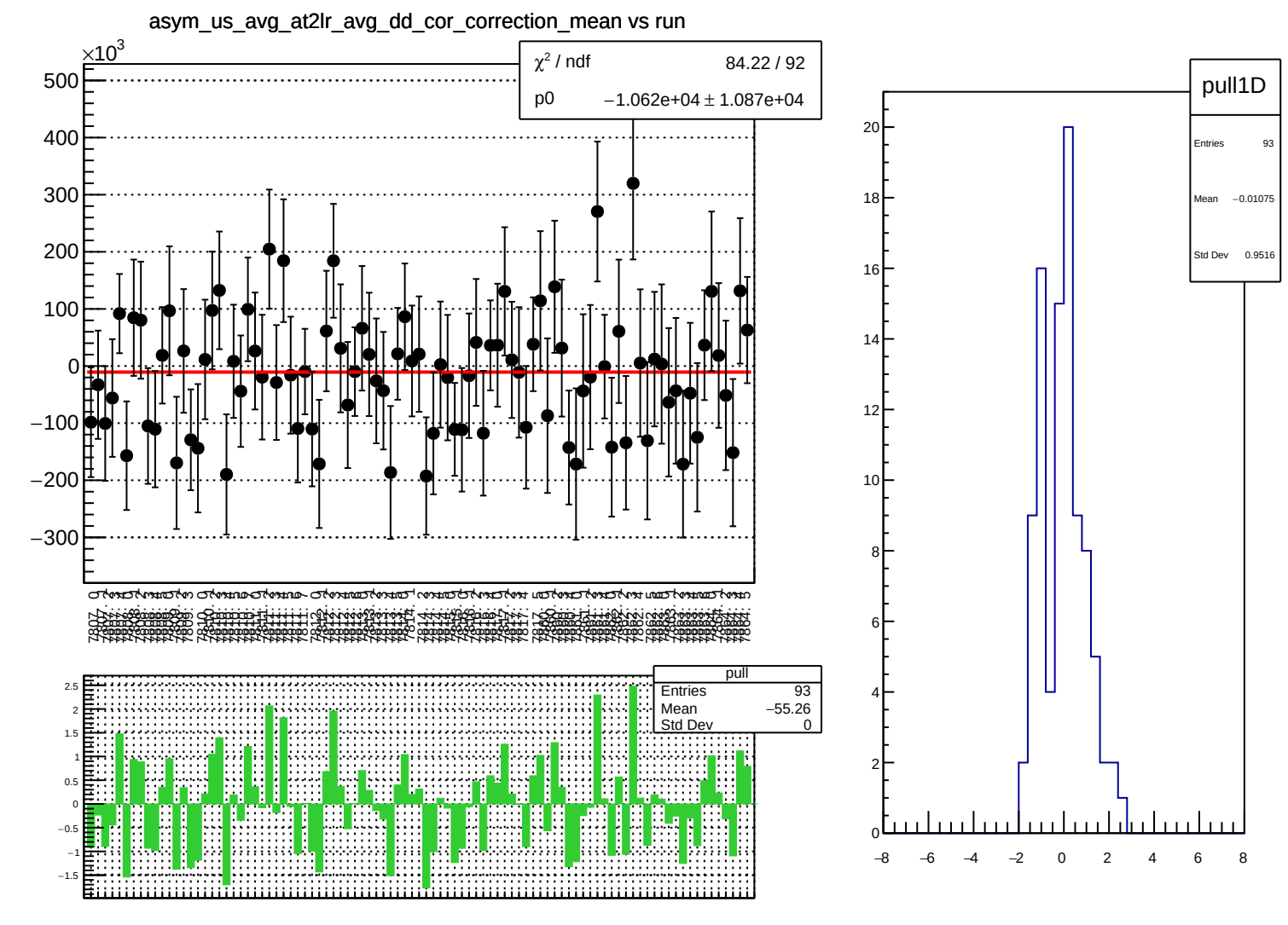

asym_us_avg_at2lr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 84.22 / 92
p0 −1.062e+04 ± 1.087e+04
pull
Entries 93
Mean −55.26
Std Dev 0
pull1D
Entries 93
Mean −0.01075
Std Dev 0.9516

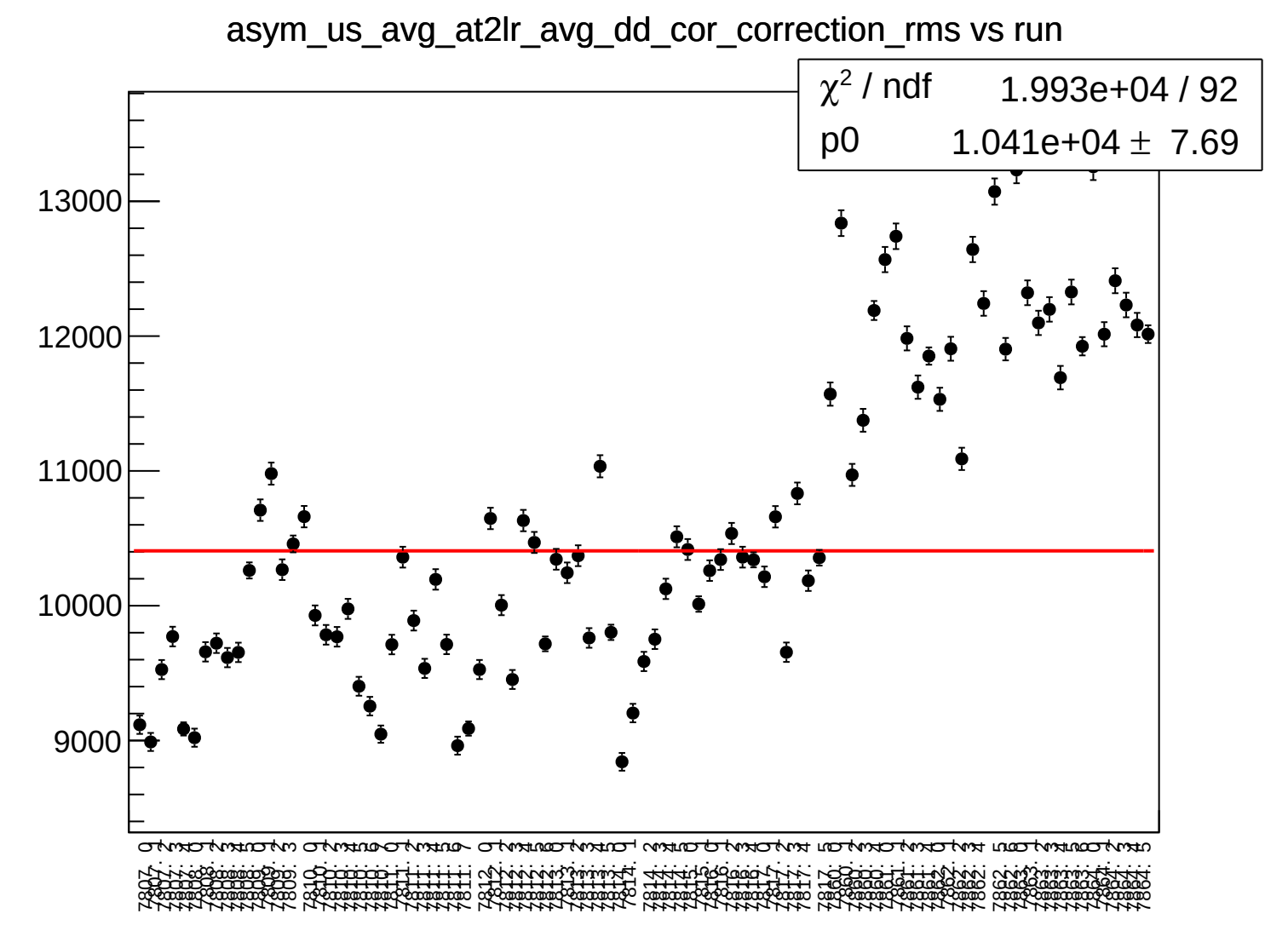

asym_us_avg_at2lr_avg_dd_reg_correction_rms vs run
χ² / ndf 1.993e+04 / 92
p0 1.041e+04 ± 7.69
13000
12000
11000
10000
9000

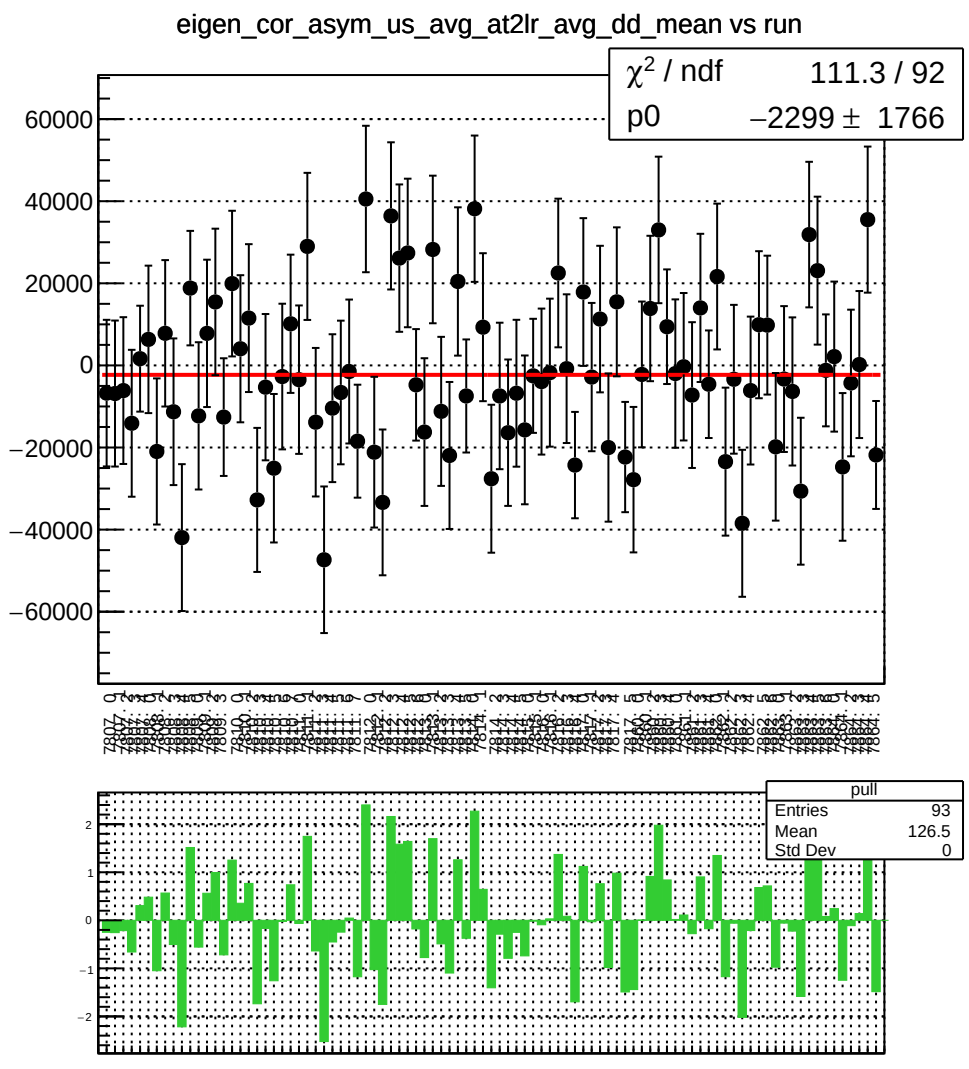

cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 111.3 / 92
p0 −2299 ± 1766
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 126.5
Std Dev 0
2
1
0
−1
−2

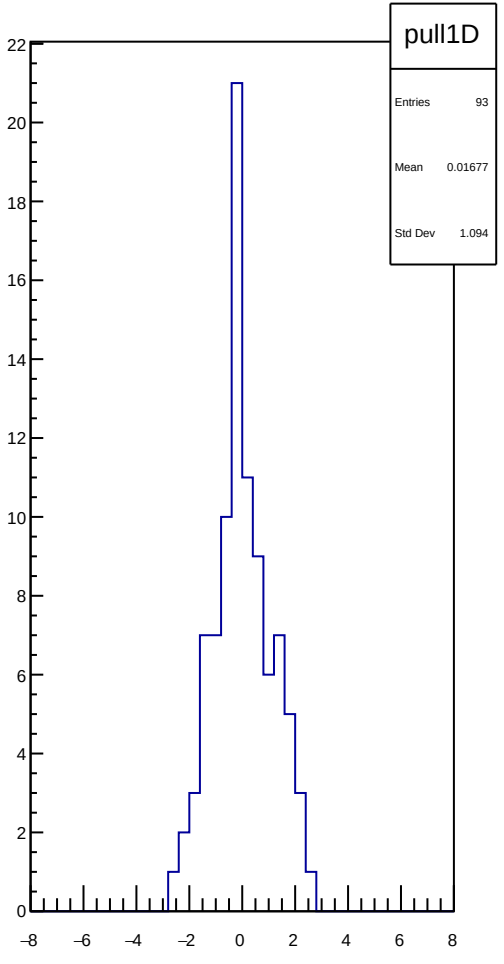

pull1D
Entries 93
Mean 0.01677
Std Dev 1.094
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

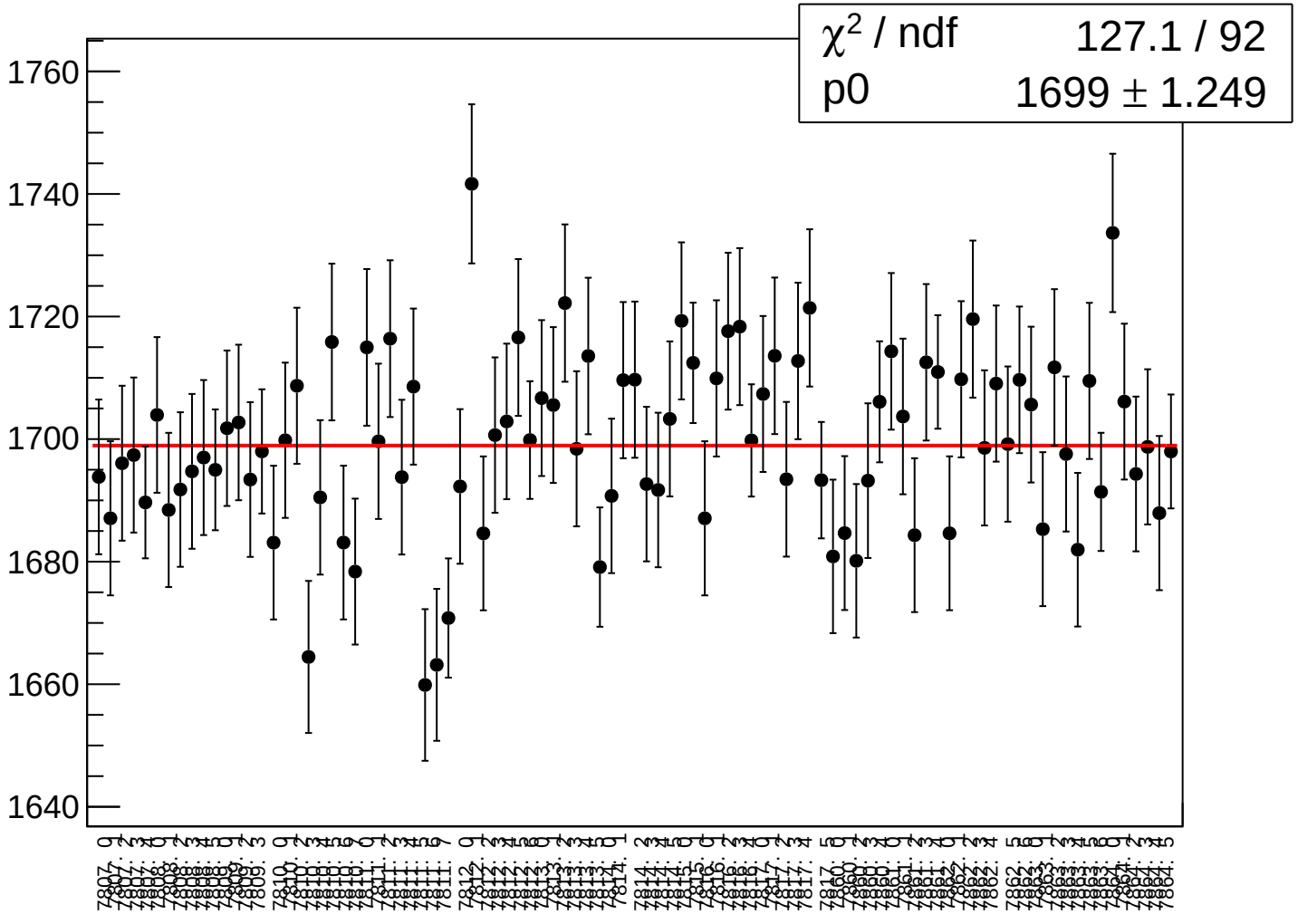

cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ^2 / ndf 127.1 / 92
p0 1699 ± 1.249
1760
1740
1720
1700
1680
1660
1640

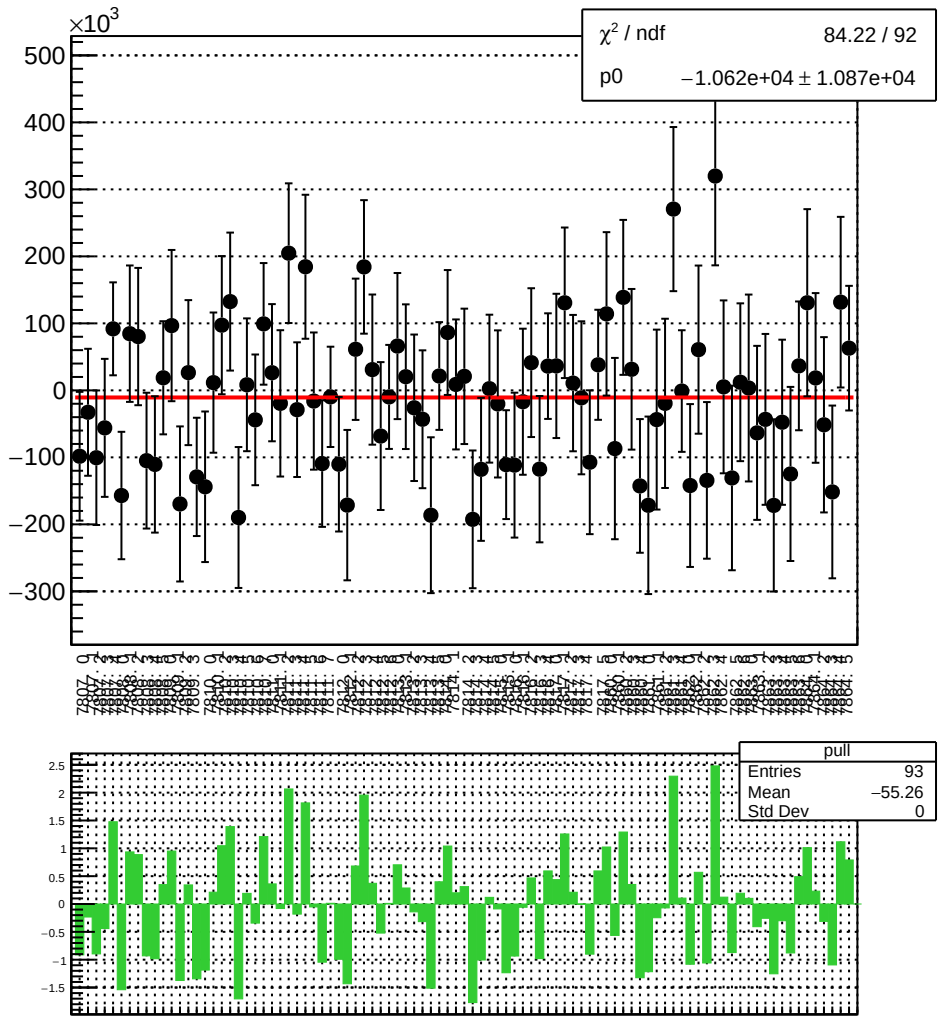

asym_us_avg_at2lr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 84.22 / 92
p0 −1.062e+04 ± 1.087e+04
pull
Entries 93
Mean −55.26
Std Dev 0
pull1D
Entries 93
Mean −0.01075
Std Dev 0.9516

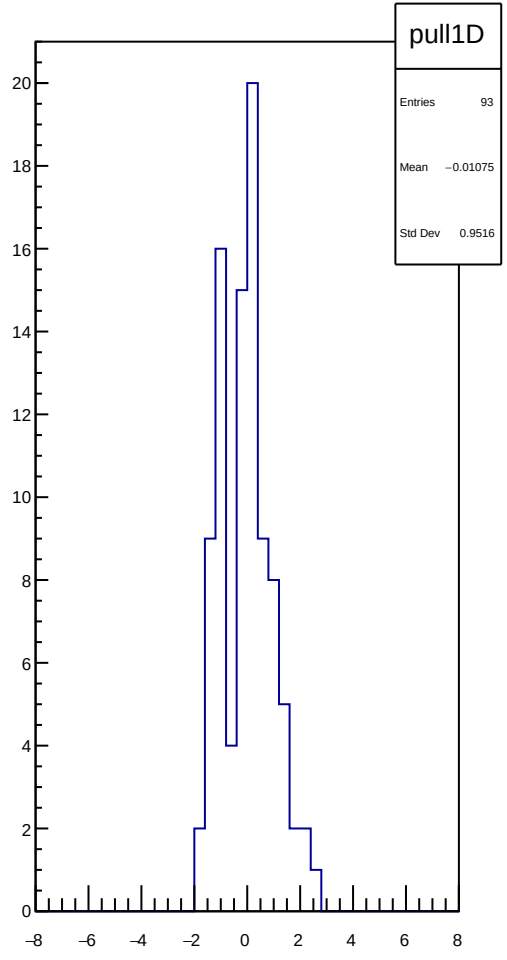

asym_us_avg_at2lr_avg_dd_cor_correction_rms vs run
χ^2 / ndf 1.993e+04 / 92
p0 1.041e+04 ± 7.69
13000
12000
11000
10000
9000

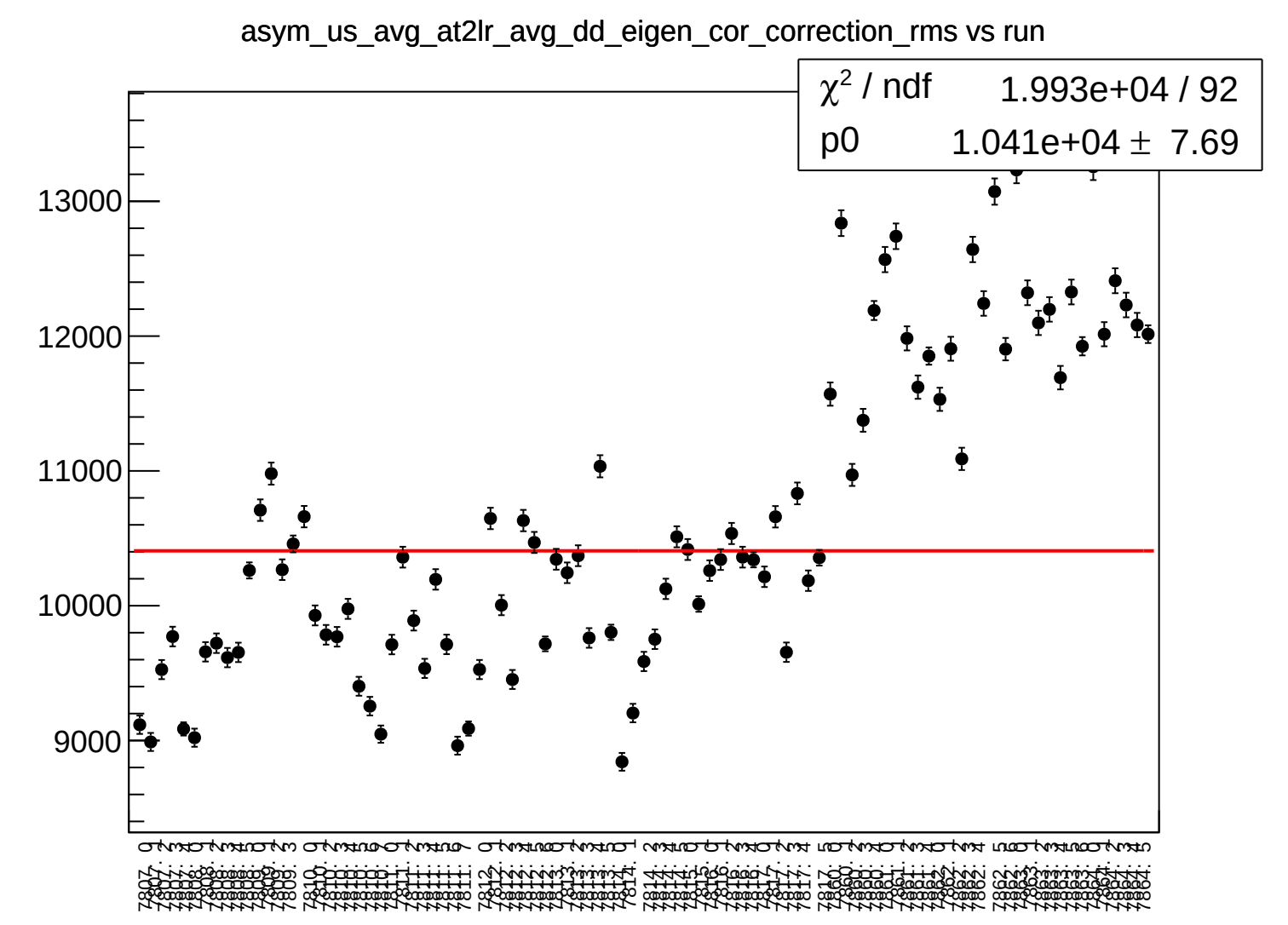

eigen_cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 111.3 / 92
p0 −2299 ± 1766
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 126.5
Std Dev 0
2
1
0
−1
−2

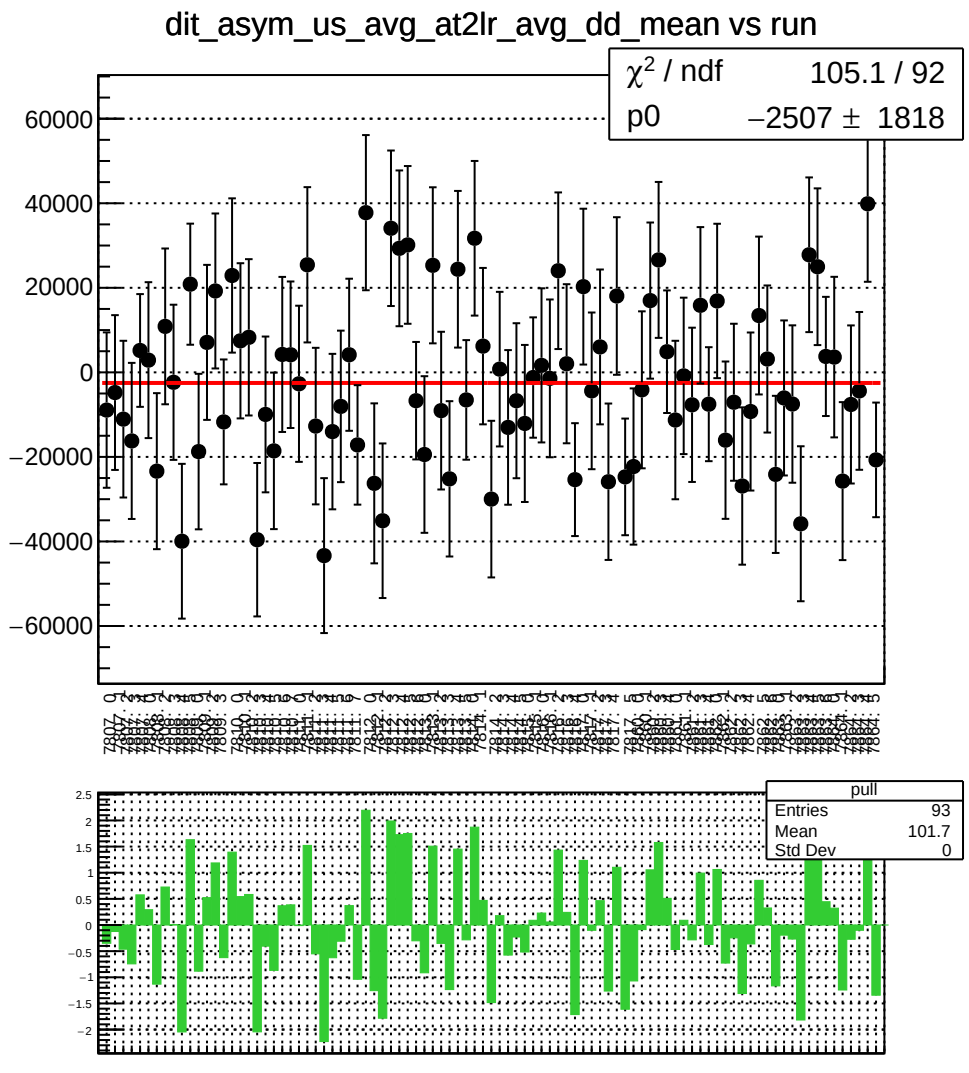

pull1D
Entries 93
Mean 0.01677
Std Dev 1.094
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

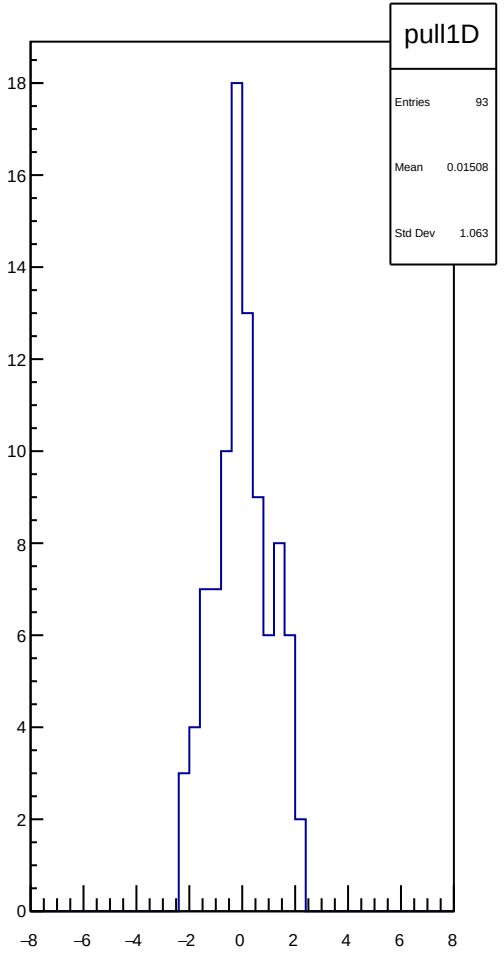

eigen_cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 127.1 / 92
p0 1699 ± 1.249
1760
1740
1720
1700
1680
1660
1640

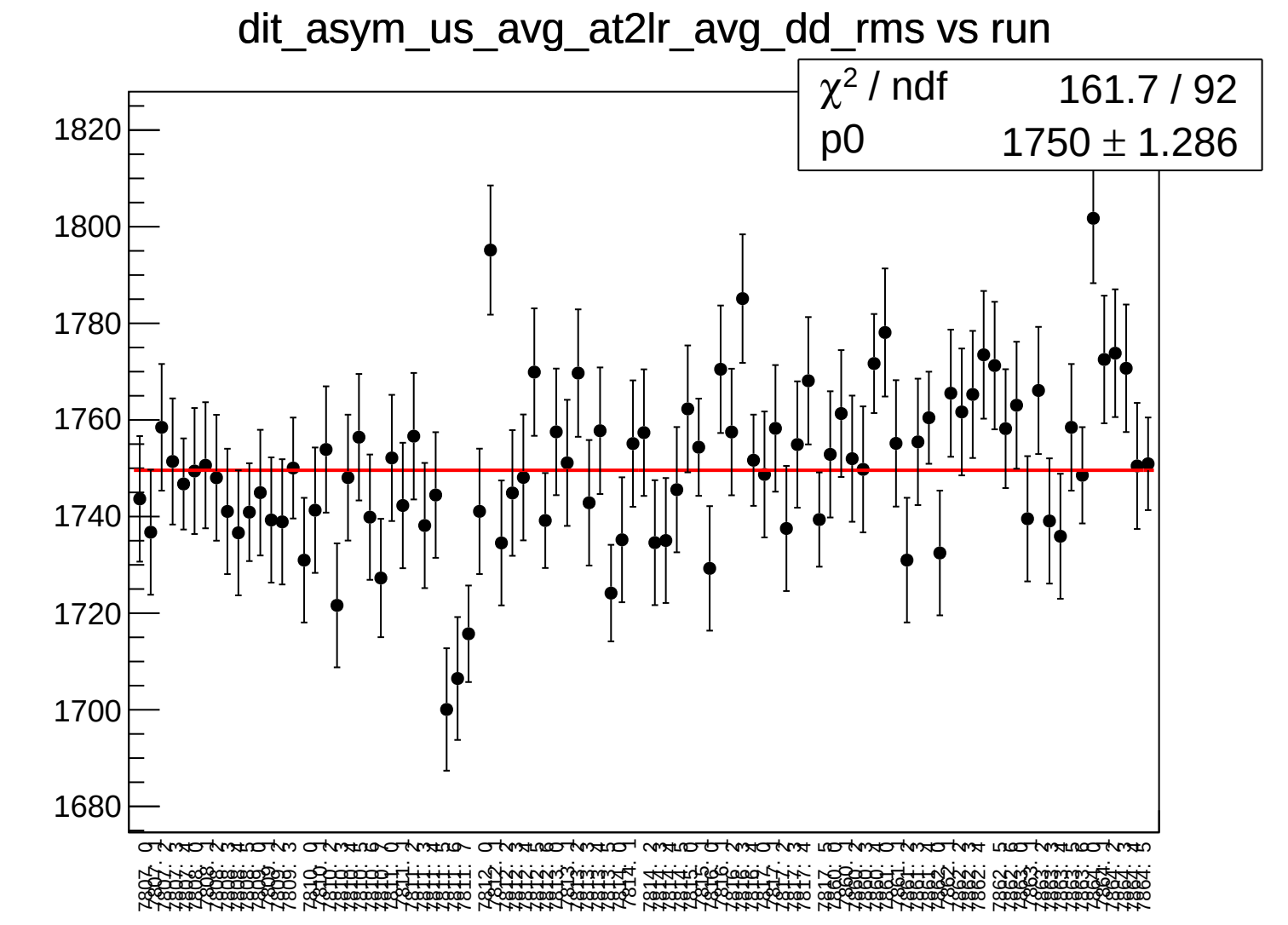

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 84.22 / 92
p0 −1.062e+04 ± 1.087e+04
pull
Entries 93
Mean −55.26
Std Dev 0

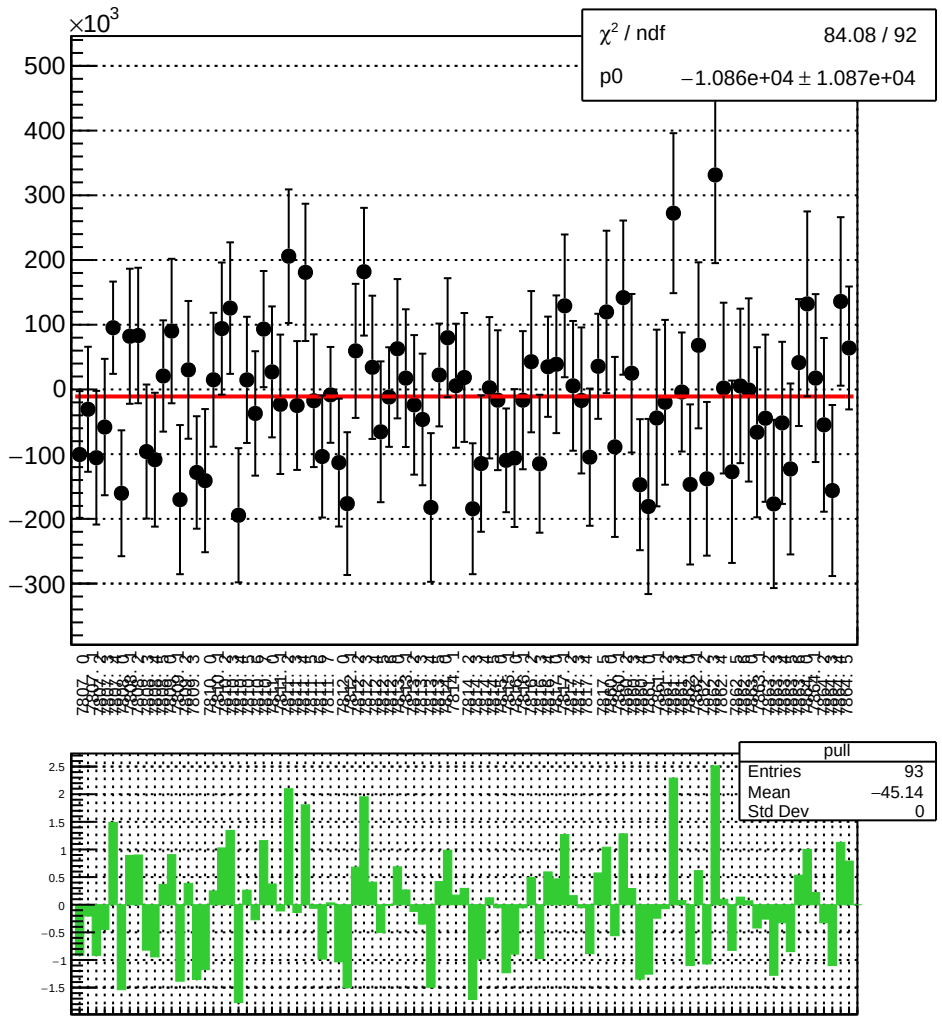

pull1D
Entries 93
Mean −0.01075
Std Dev 0.9516

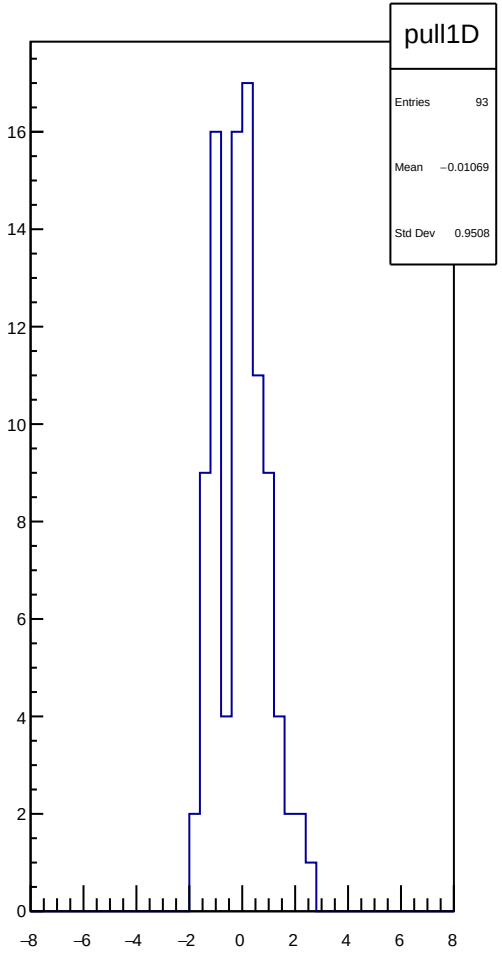

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.993e+04 / 92
p0 1.041e+04 ± 7.69
13000
12000
11000
10000
9000

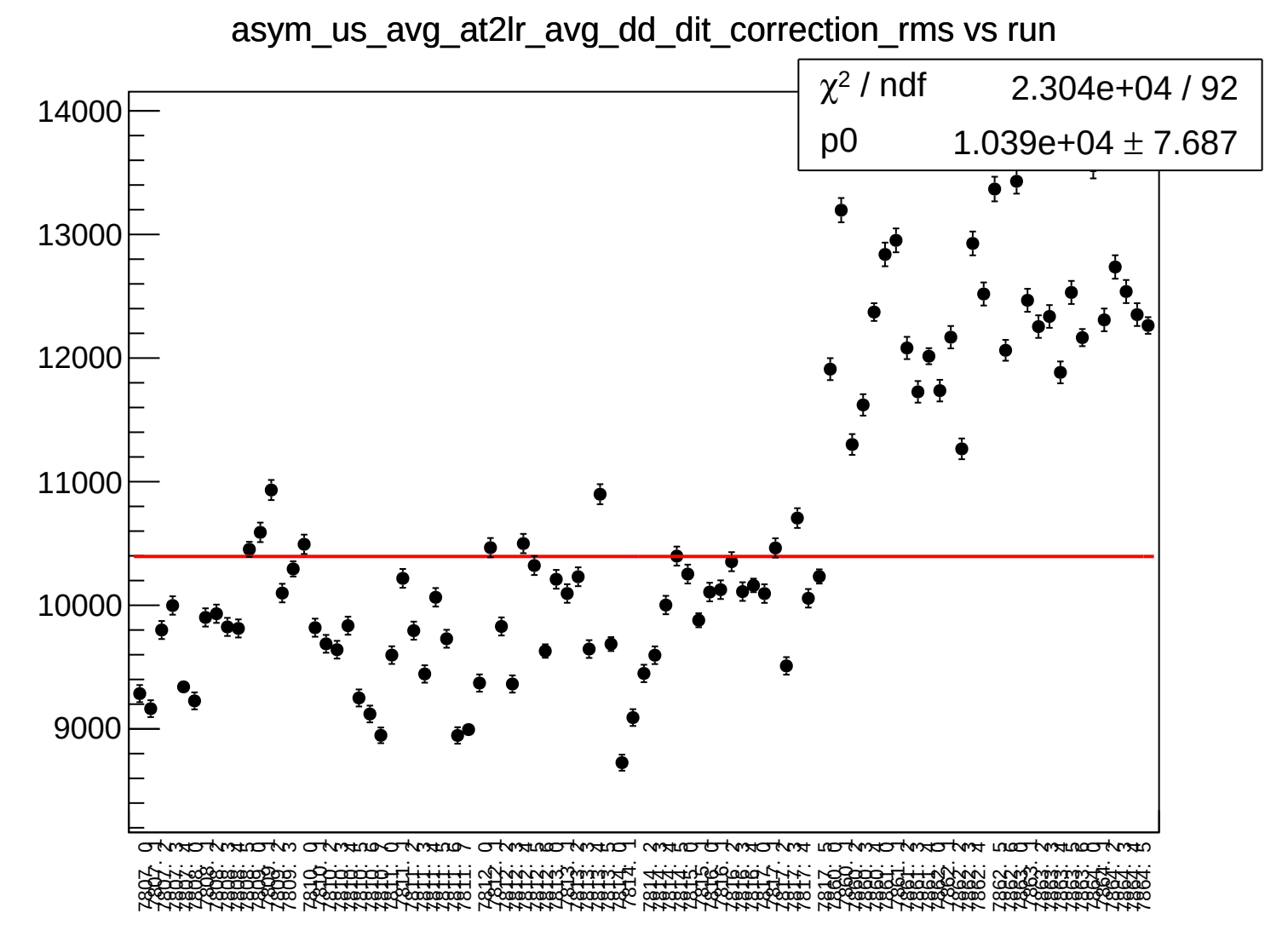

dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 105.1 / 92
p0 −2507 ± 1818
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 101.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

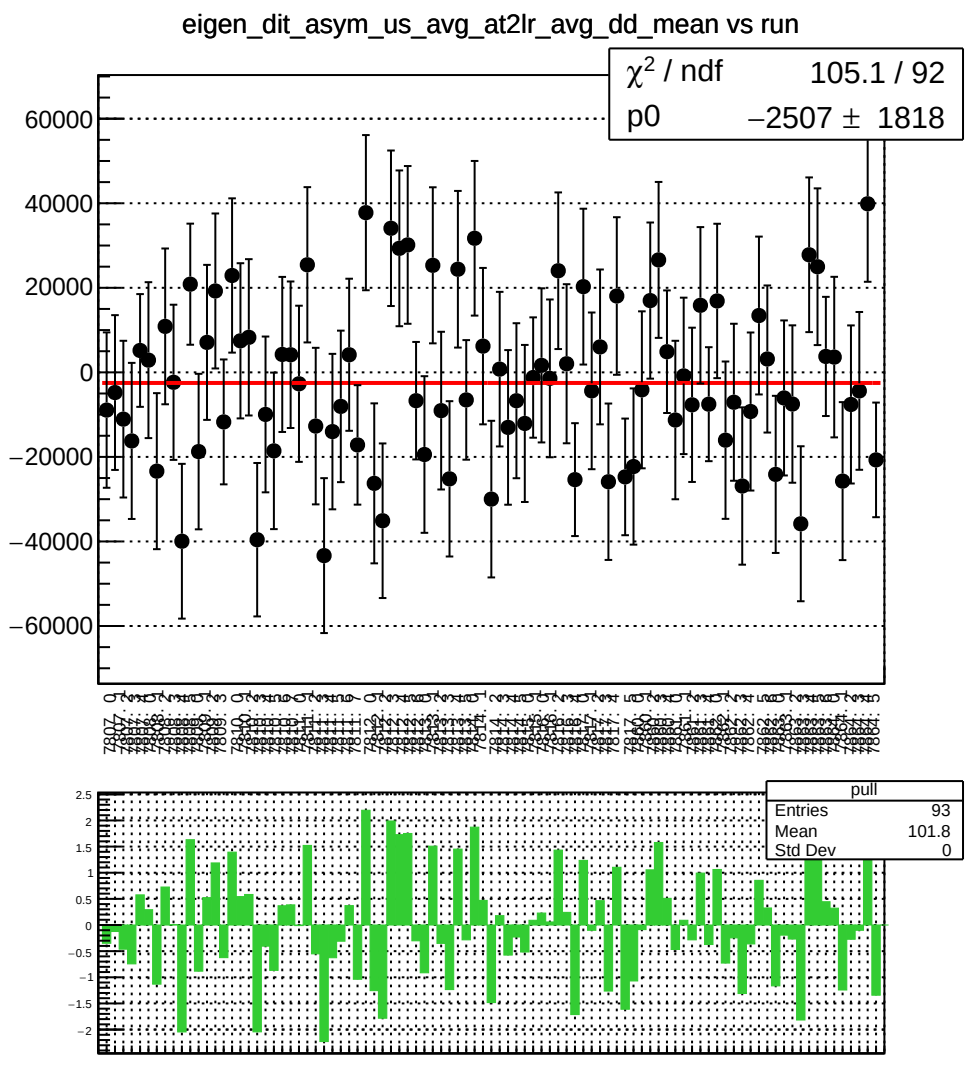

pull1D
Entries 93
Mean 0.01508
Std Dev 1.063
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

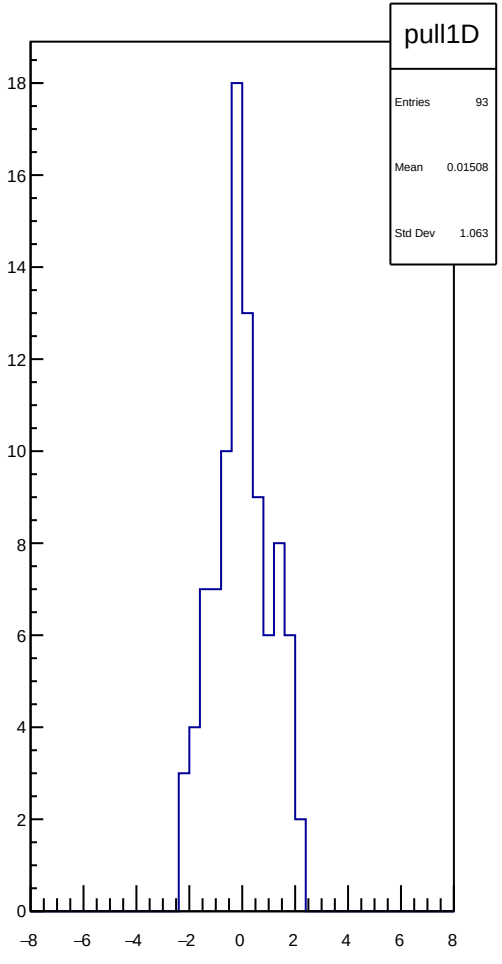

dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 161.7 / 92
p0 1750 ± 1.286
1820
1800
1780
1760
1740
1720
1700
1680

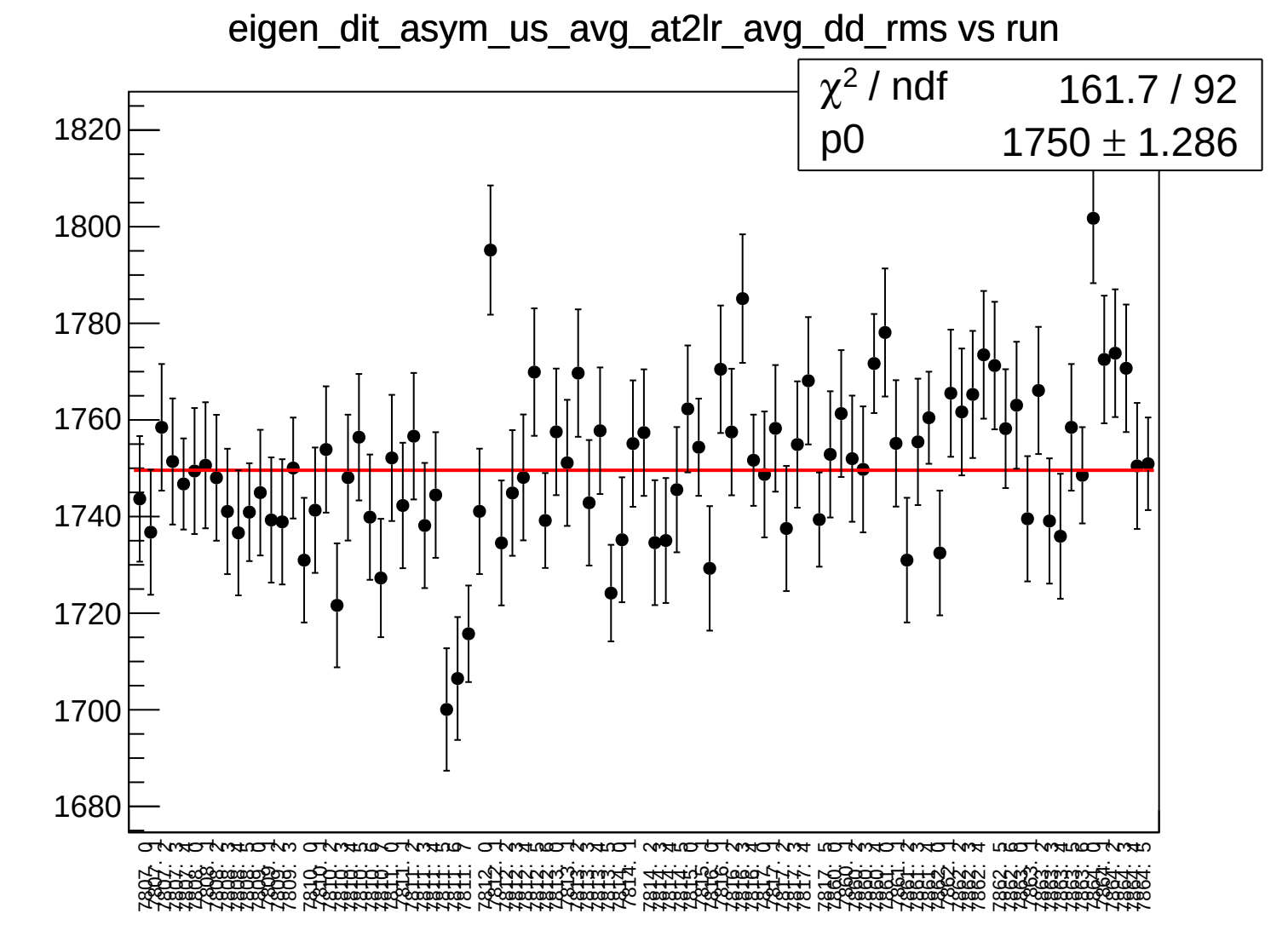

asym_us_avg_at2lr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 84.08 / 92
p0 −1.086e+04 ± 1.087e+04
pull
Entries 93
Mean −45.14
Std Dev 0

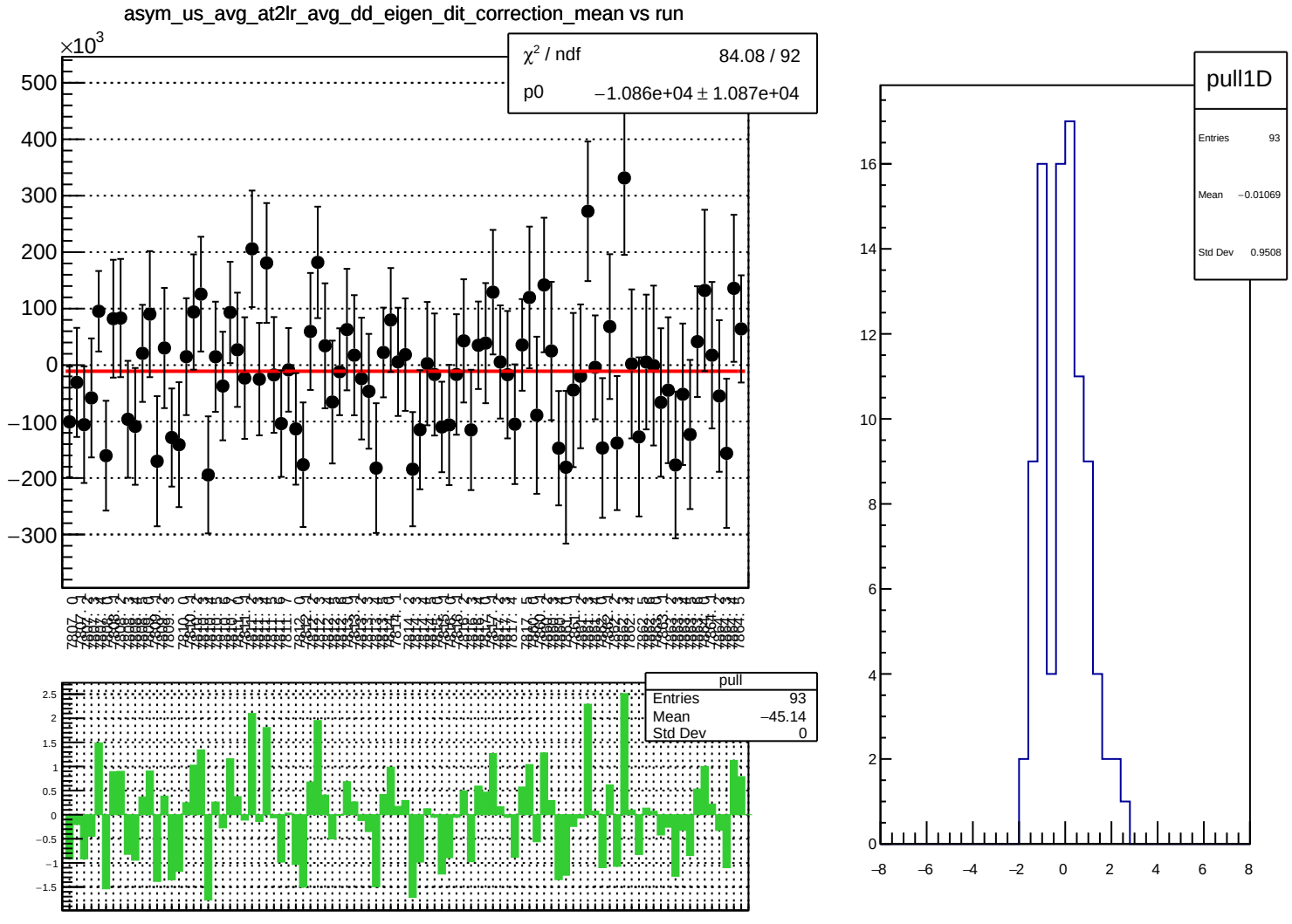

pull1D
Entries 93
Mean −0.01069
Std Dev 0.9508

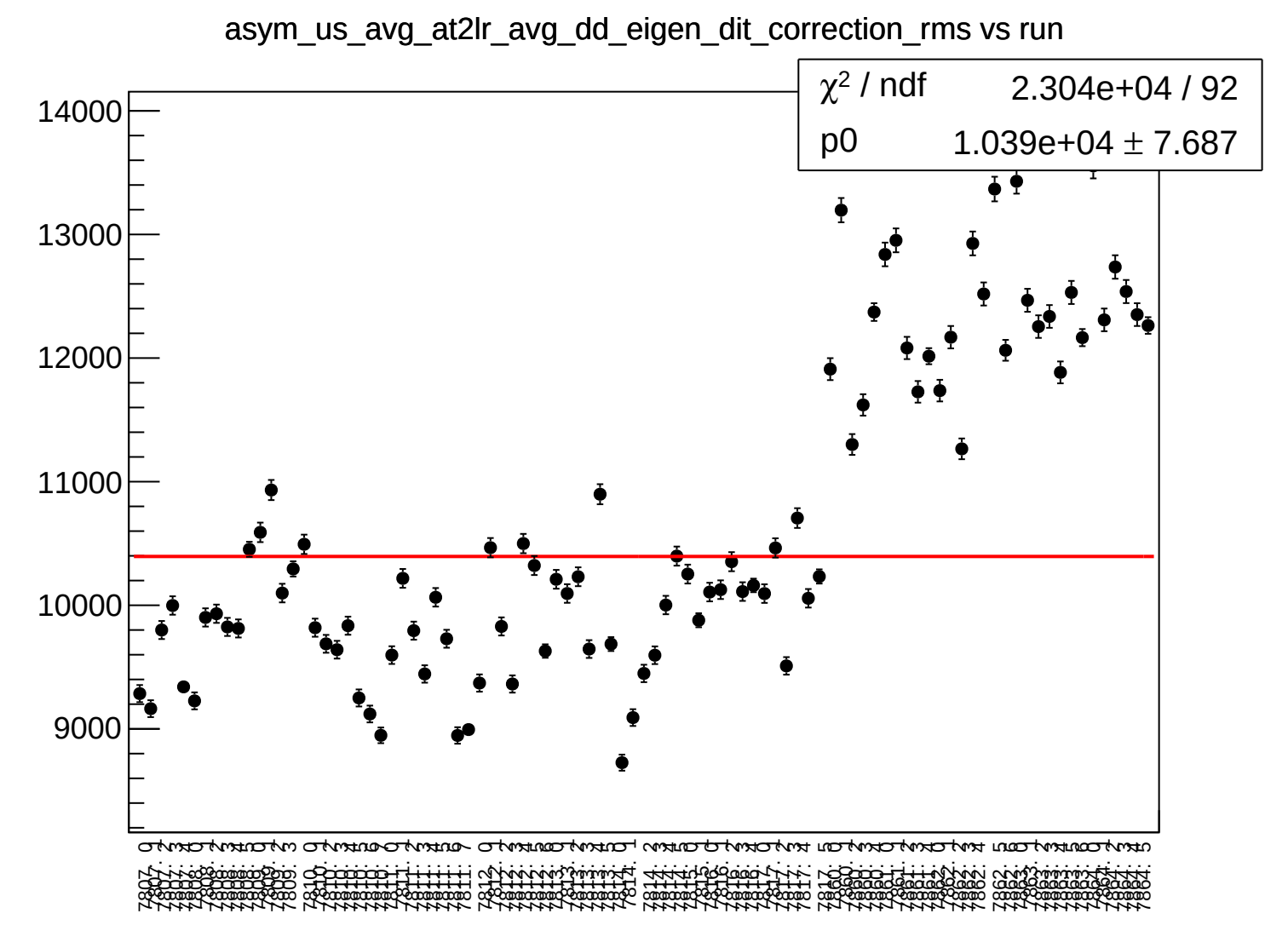

asym_us_avg_at2lr_avg_dd_dit_correction_rms vs run
χ² / ndf 2.304e+04 / 92
p0 1.039e+04 ± 7.687
14000
13000
12000
11000
10000
9000

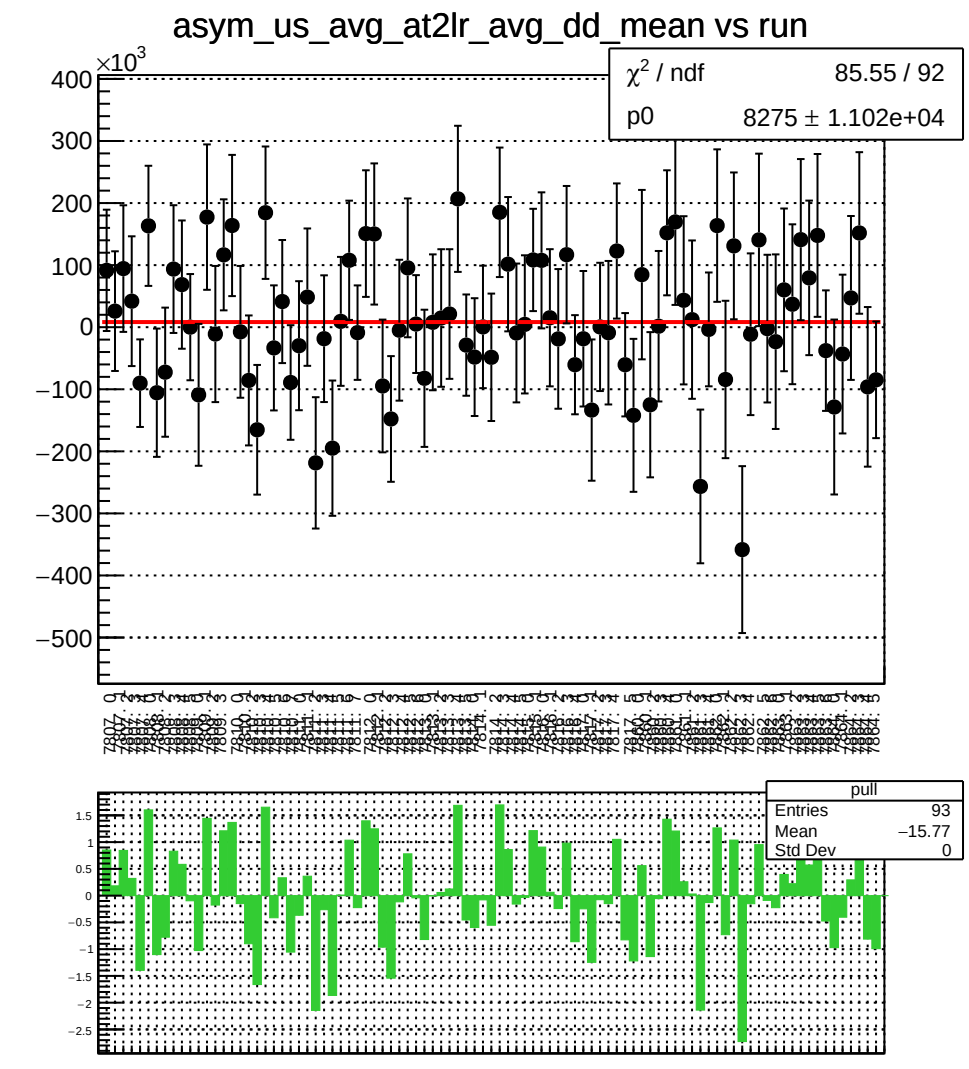

eigen_dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 105.1 / 92
p0 −2507 ± 1818
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 101.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

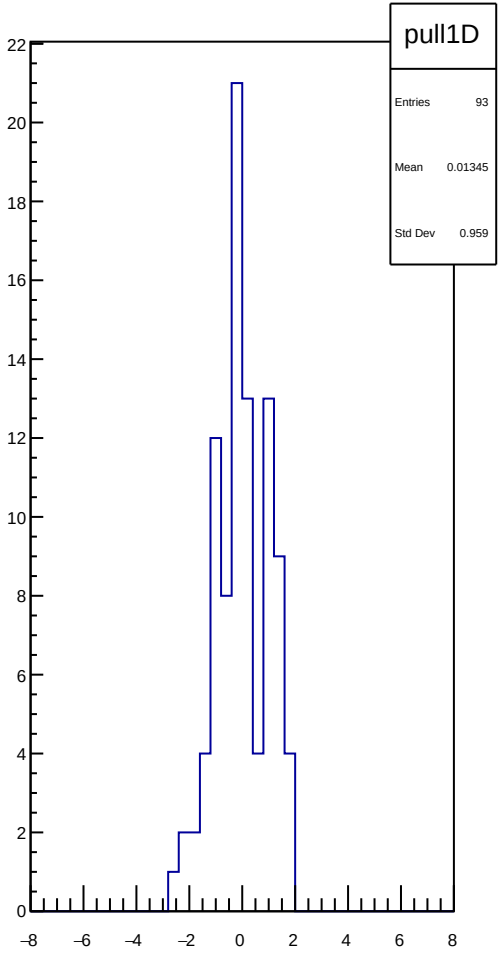

pull1D
Entries 93
Mean 0.01508
Std Dev 1.063
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

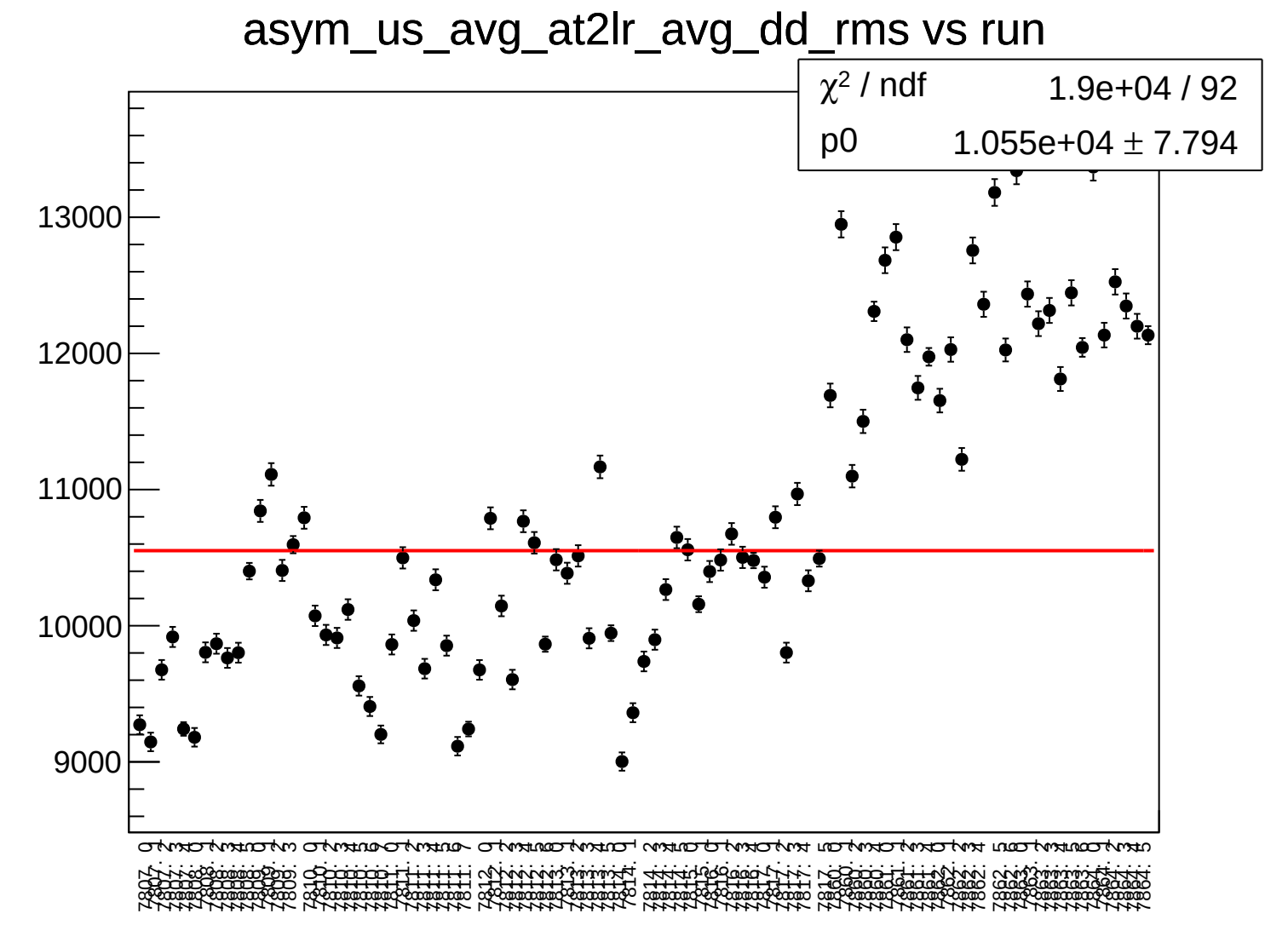

eigen_dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 161.7 / 92
p0 1750 ± 1.286
1820
1800
1780
1760
1740
1720
1700
1680

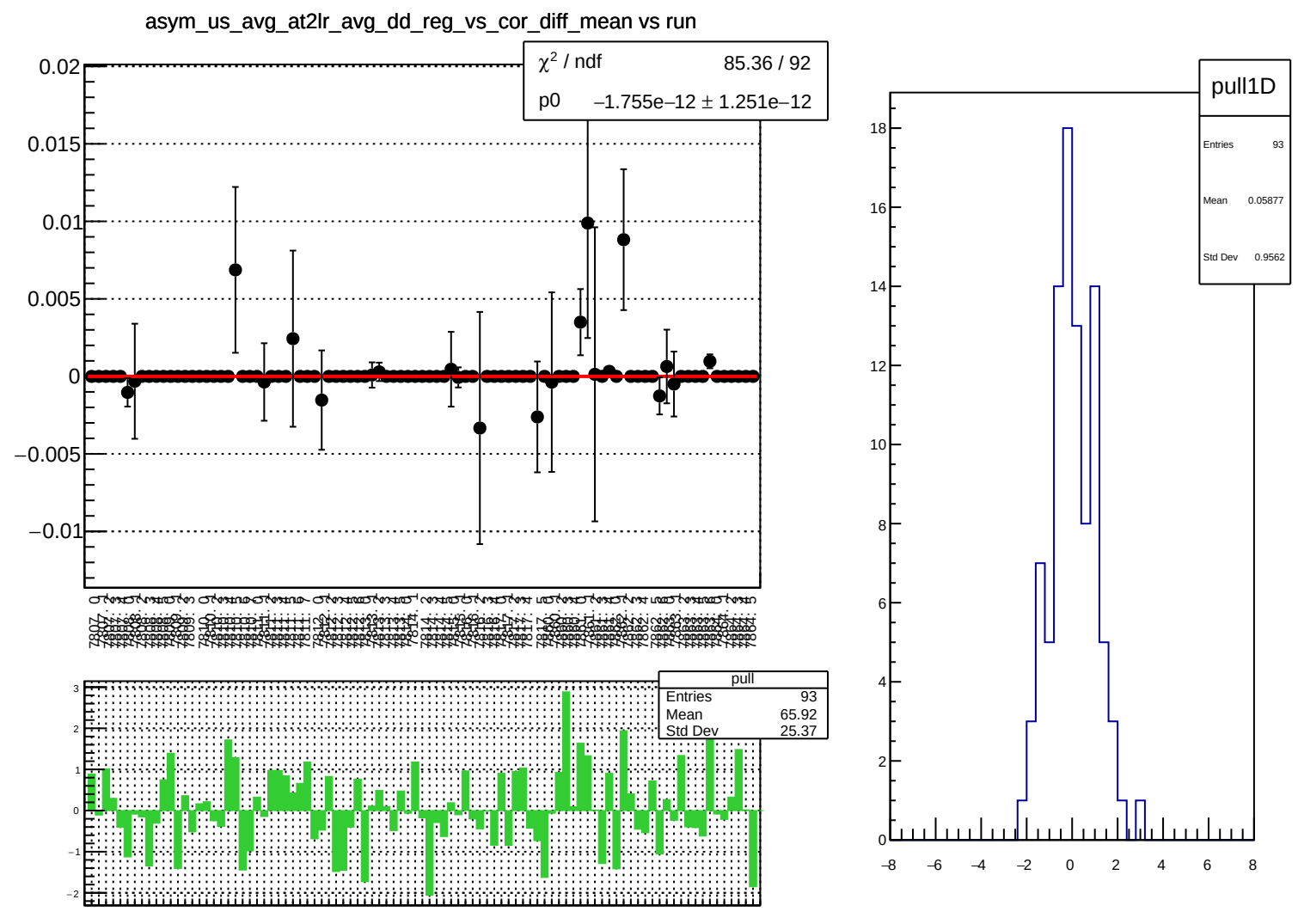

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 84.08 / 92
p0 −1.086e+04 ± 1.087e+04
pull
Entries 93
Mean −45.14
Std Dev 0
pull1D
Entries 93
Mean −0.01069
Std Dev 0.9508

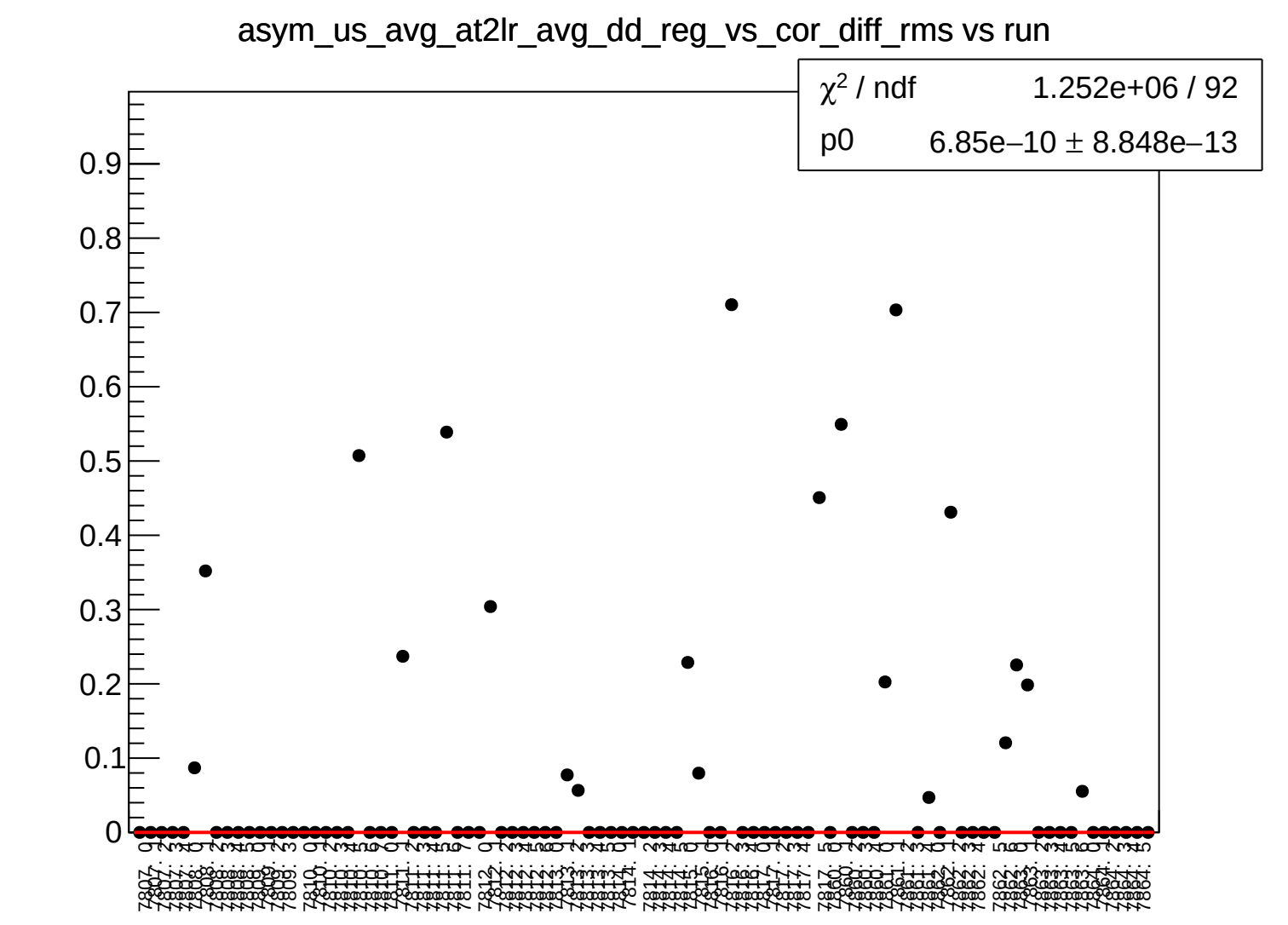

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.304e+04 / 92
p0 1.039e+04 ± 7.687
14000
13000
12000
11000
10000
9000

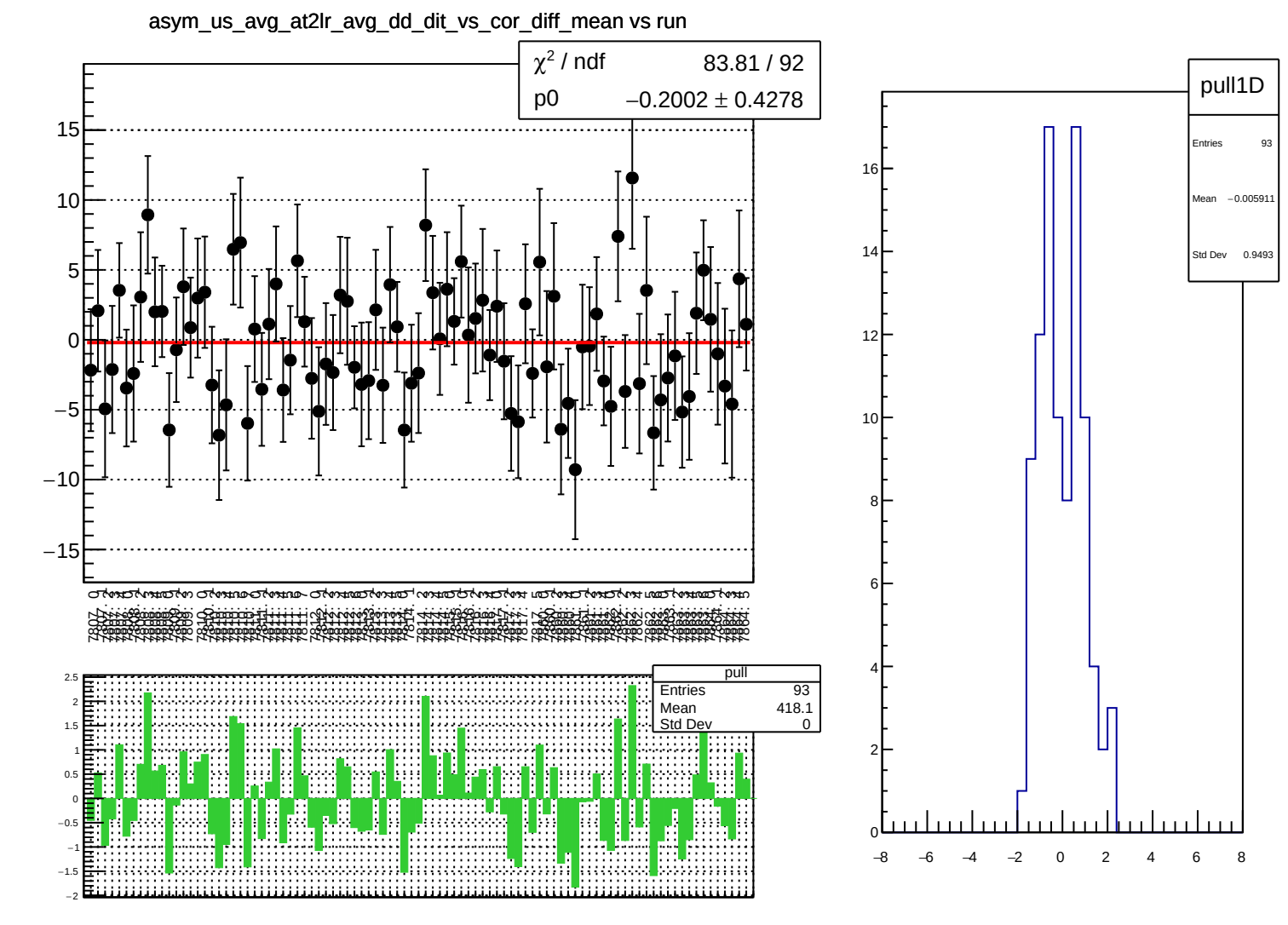

asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ² / ndf 85.55 / 92
p0 8275 ± 1.102e+04
pull
Entries 93
Mean −15.77
Std Dev 0

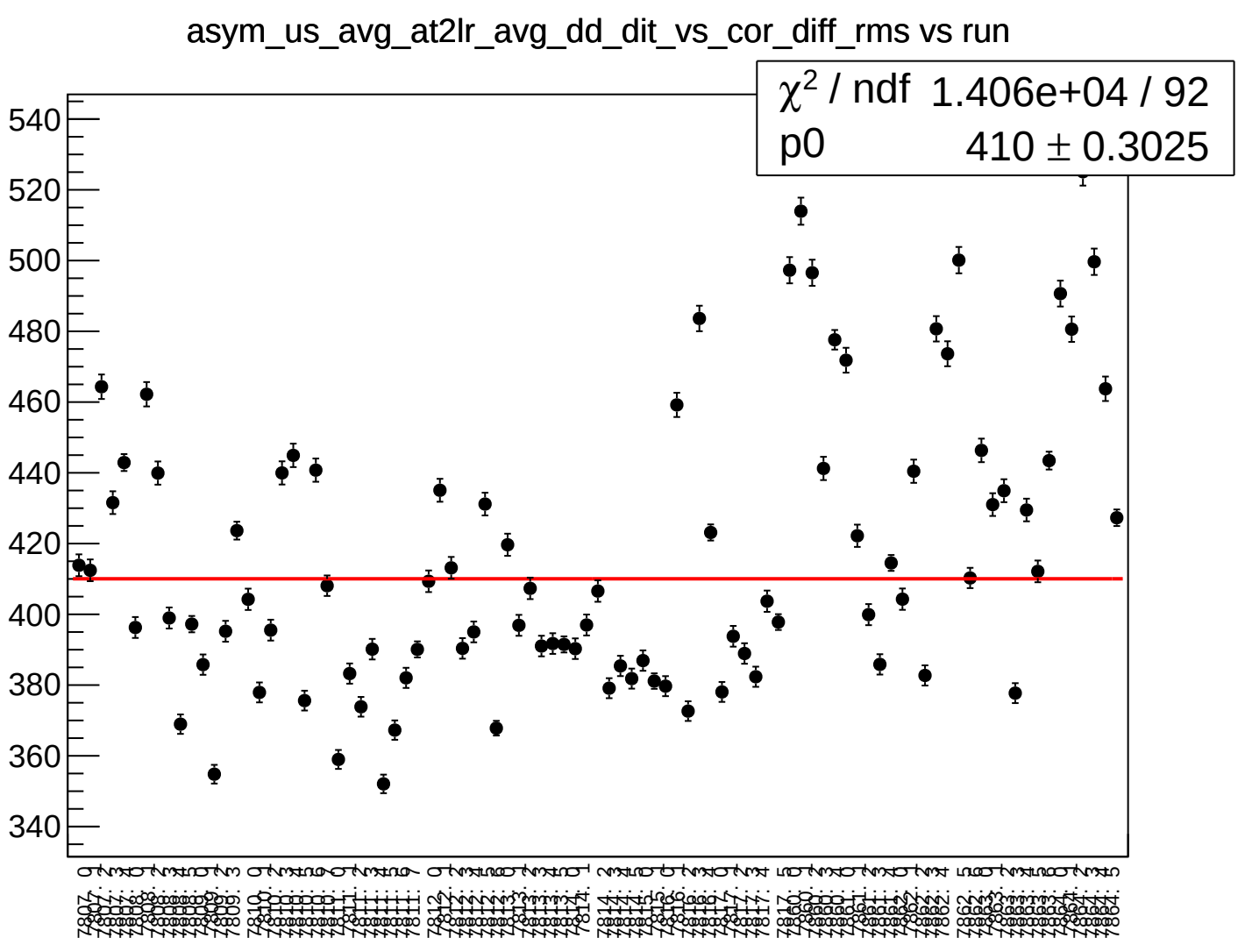

pull1D
Entries 93
Mean 0.01345
Std Dev 0.959

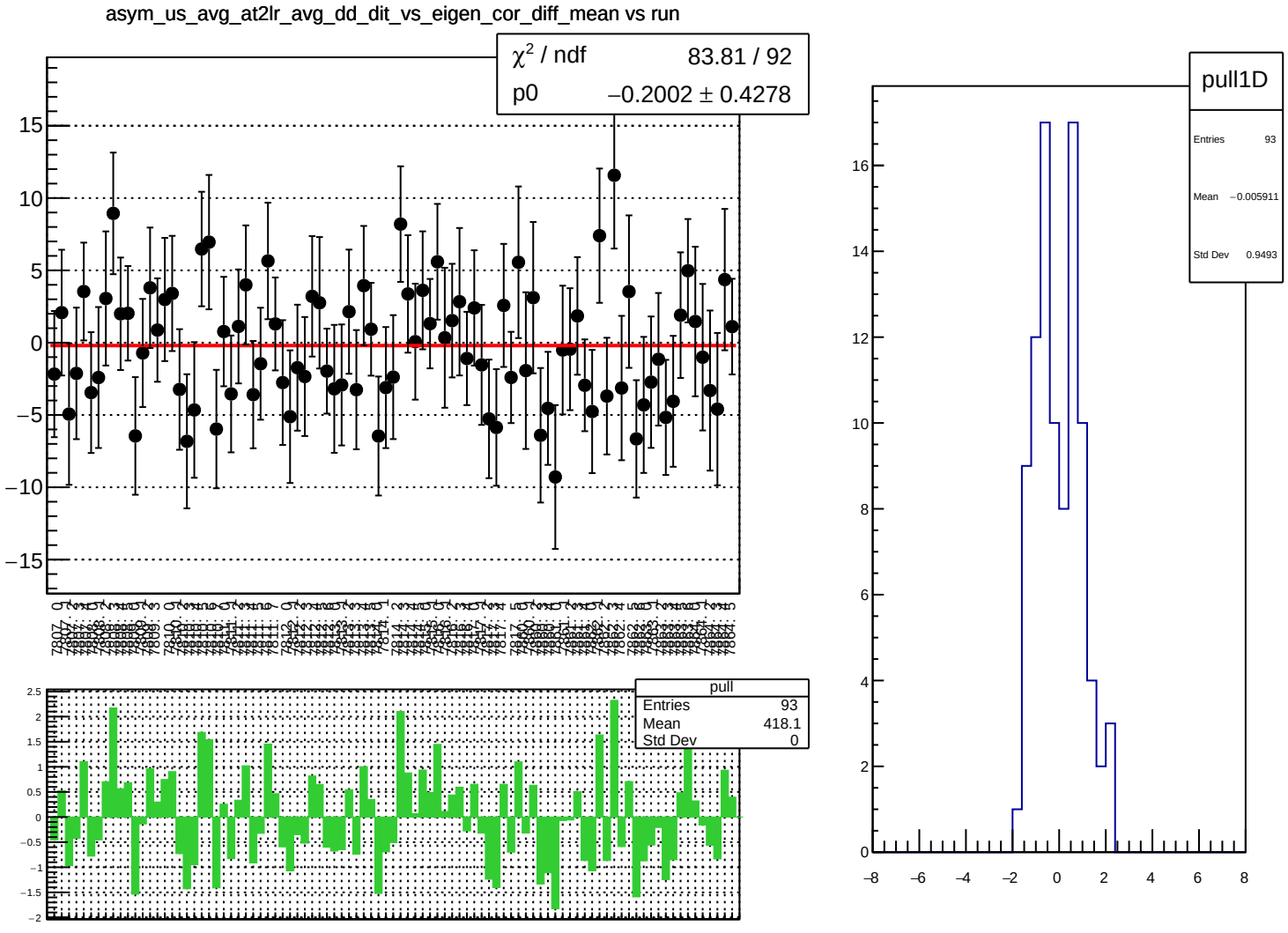

asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 1.9e+04 / 92
p0 1.055e+04 ± 7.794
13000
12000
11000
10000
9000

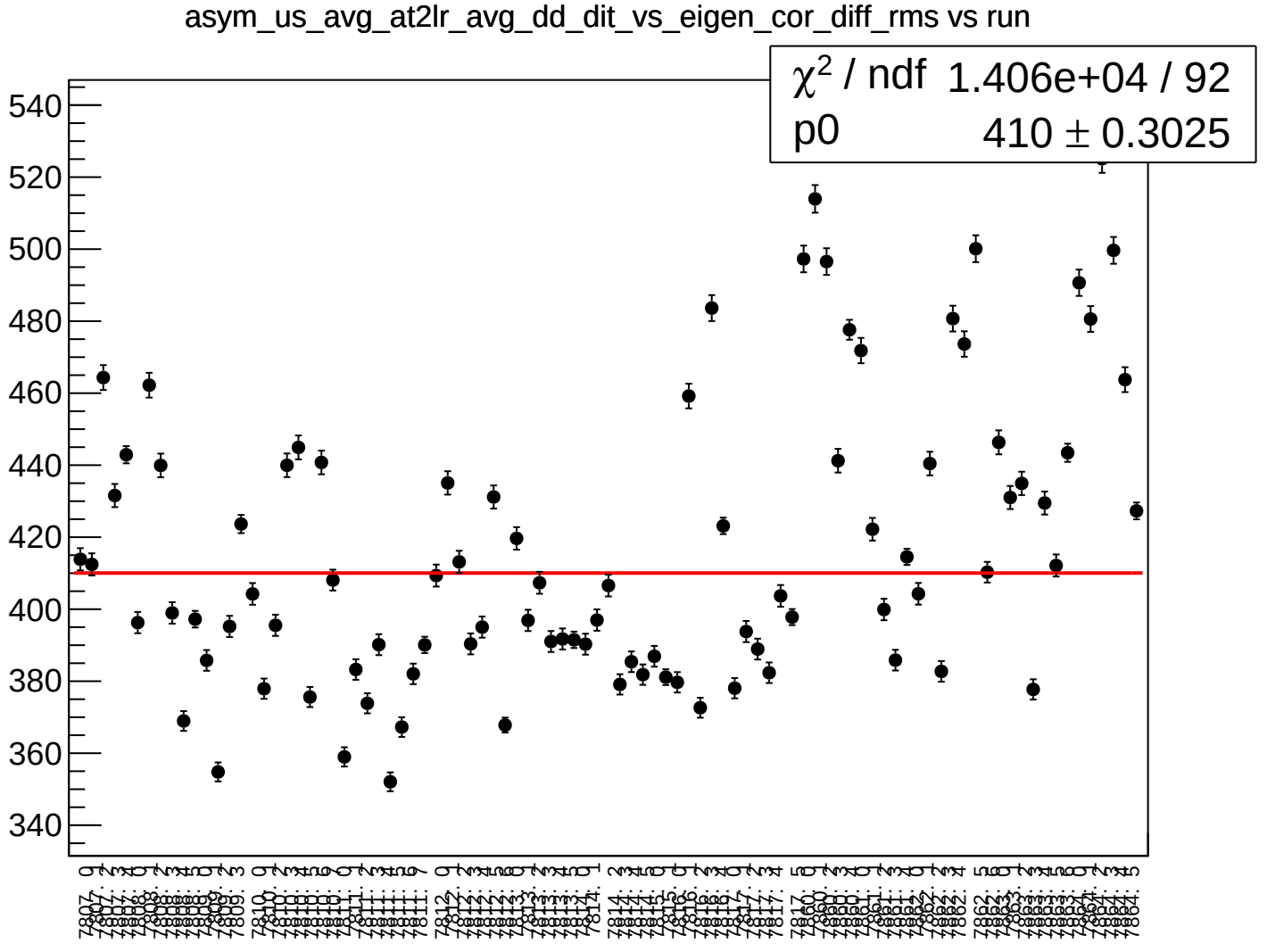

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 85.36 / 92
p0 −1.755e−12 ± 1.251e−12
pull
Entries 93
Mean 65.92
Std Dev 25.37
pull1D
Entries 93
Mean 0.05877
Std Dev 0.9562

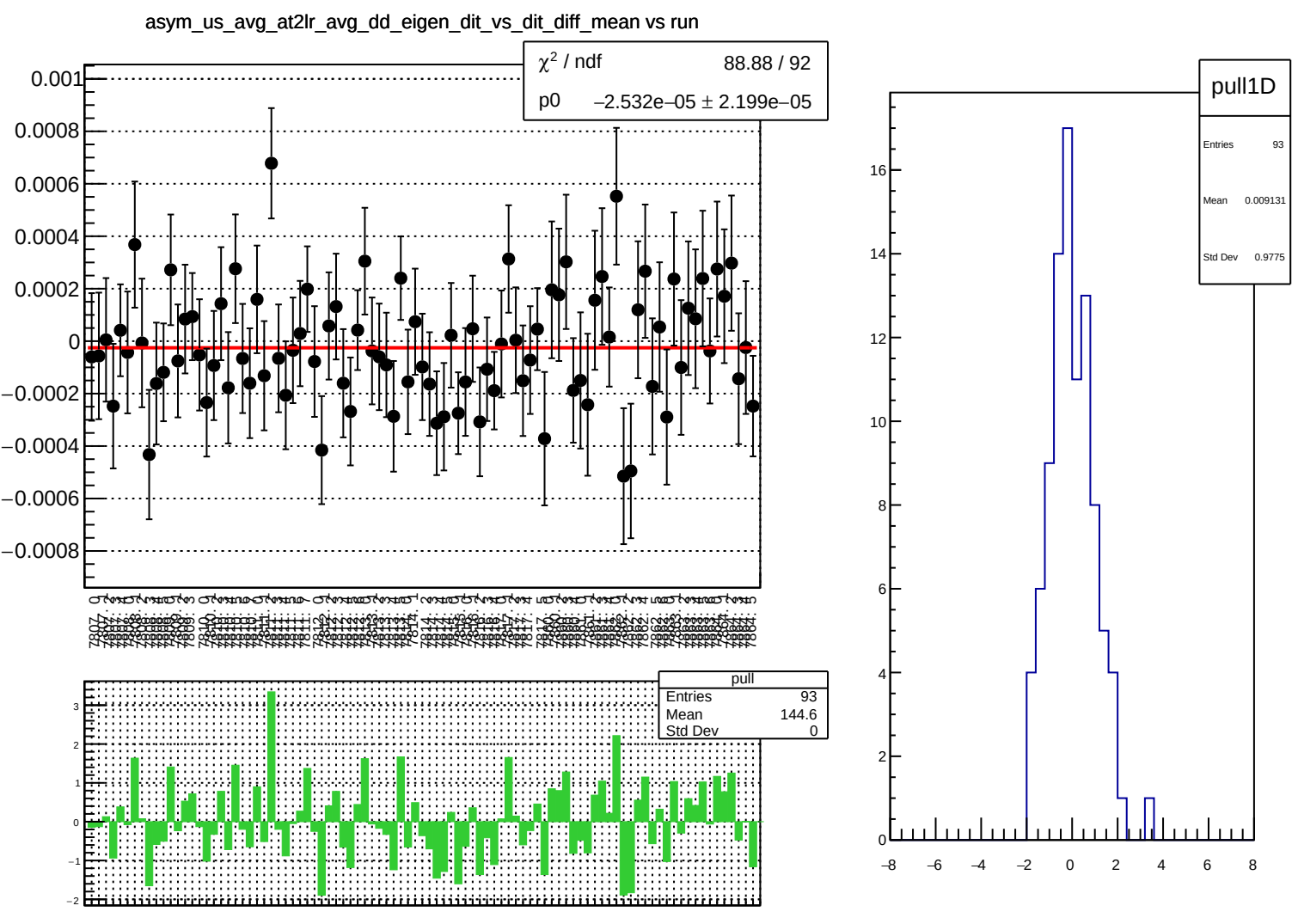

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.252e+06 / 92
p0 6.85e−10 ± 8.848e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

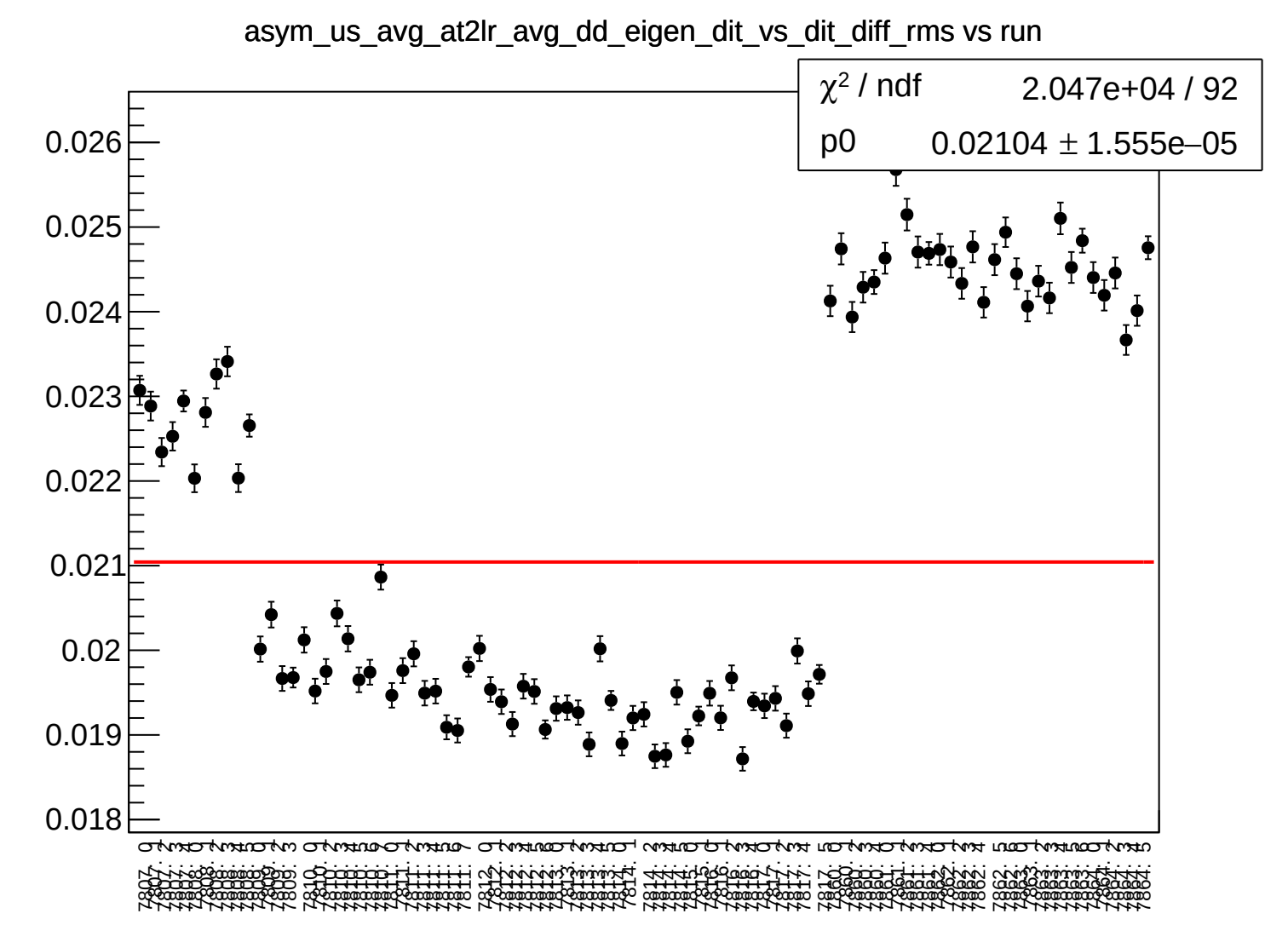

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 83.81 / 92
p0 −0.2002 ± 0.4278
pull
Entries 93
Mean 418.1
Std Dev 0
pull1D
Entries 93
Mean −0.005911
Std Dev 0.9493

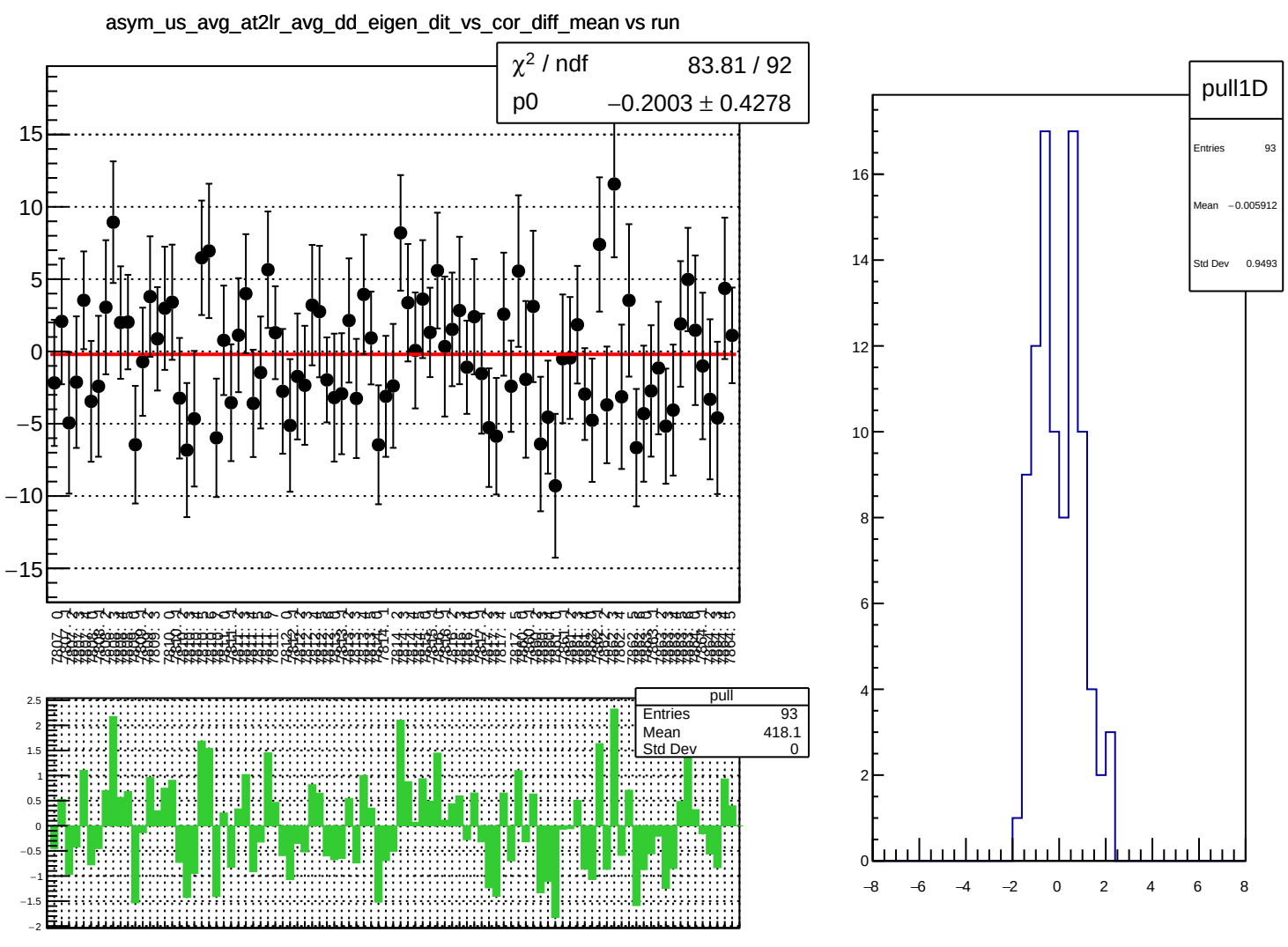

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.406e+04 / 92
p0 410 ± 0.3025
540
520
500
480
460
440
420
400
380
360
340

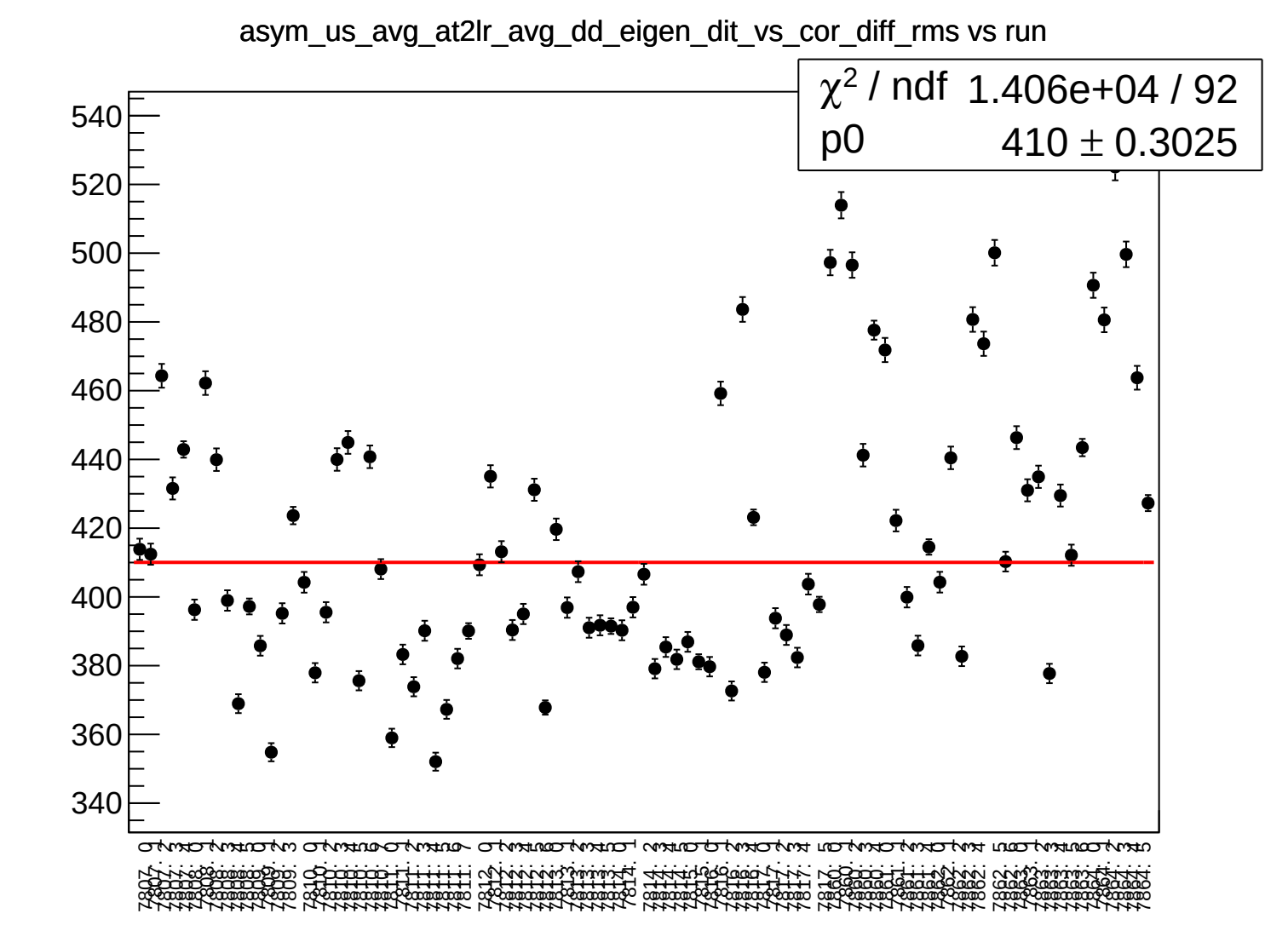

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.81 / 92
p0 −0.2002 ± 0.4278
pull
Entries 93
Mean 418.1
Std Dev 0
pull1D
Entries 93
Mean −0.005911
Std Dev 0.9493

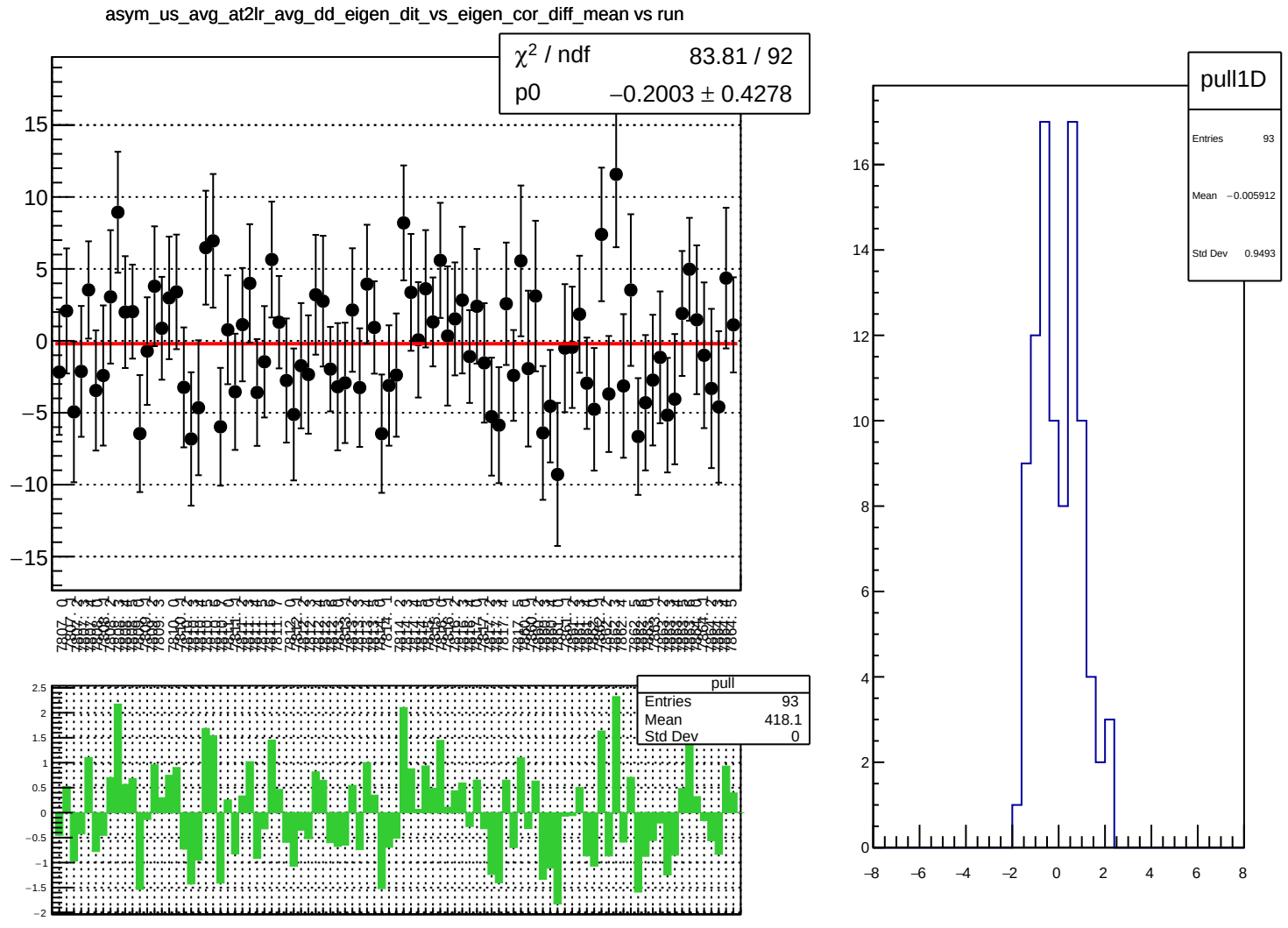

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.406e+04 / 92
p0 410 ± 0.3025
540
520
500
480
460
440
420
400
380
360
340

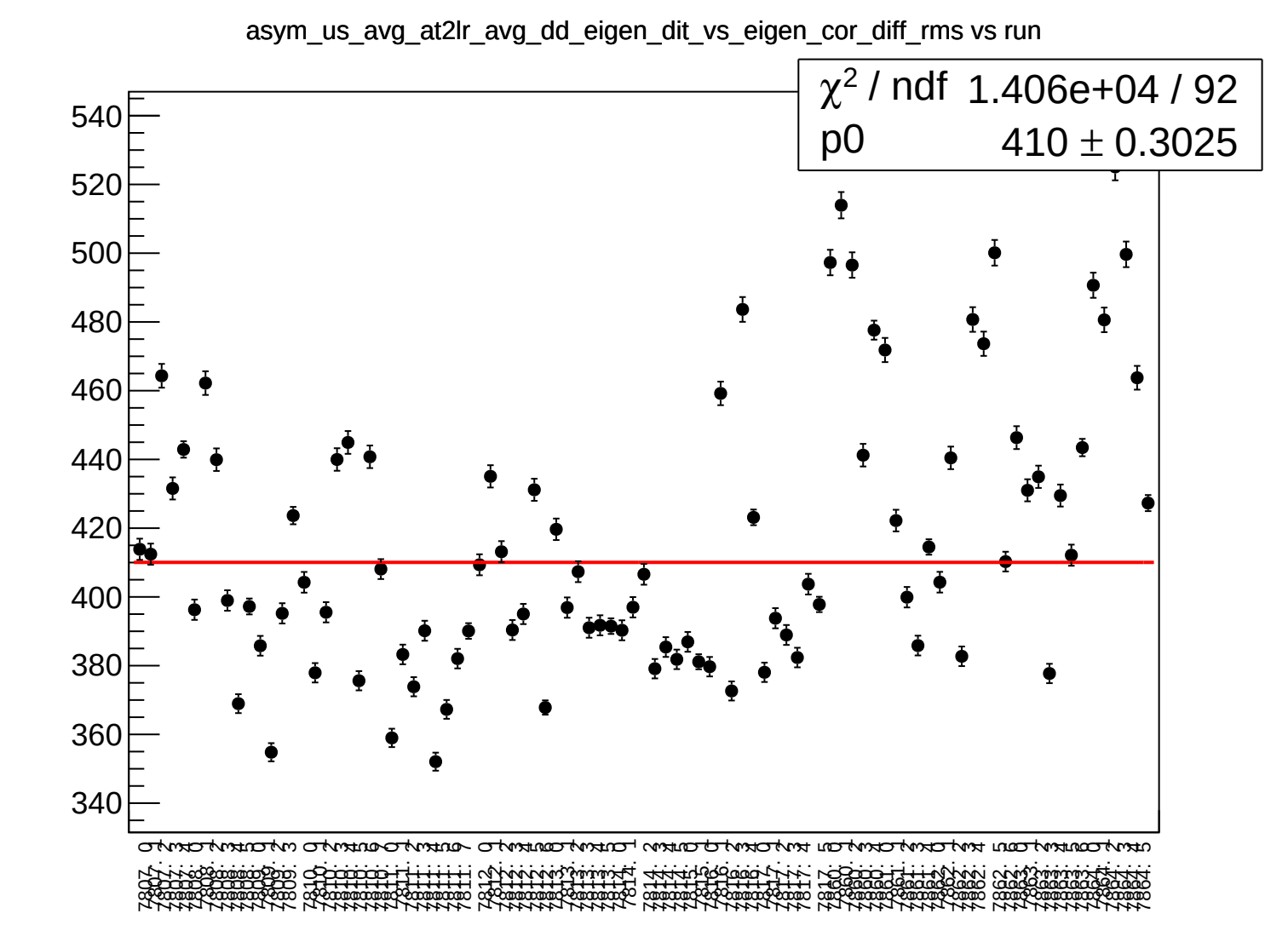

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 88.88 / 92
p0 −2.532e−05 ± 2.199e−05
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
pull
Entries 93
Mean 144.6
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.009131
Std Dev 0.9775
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

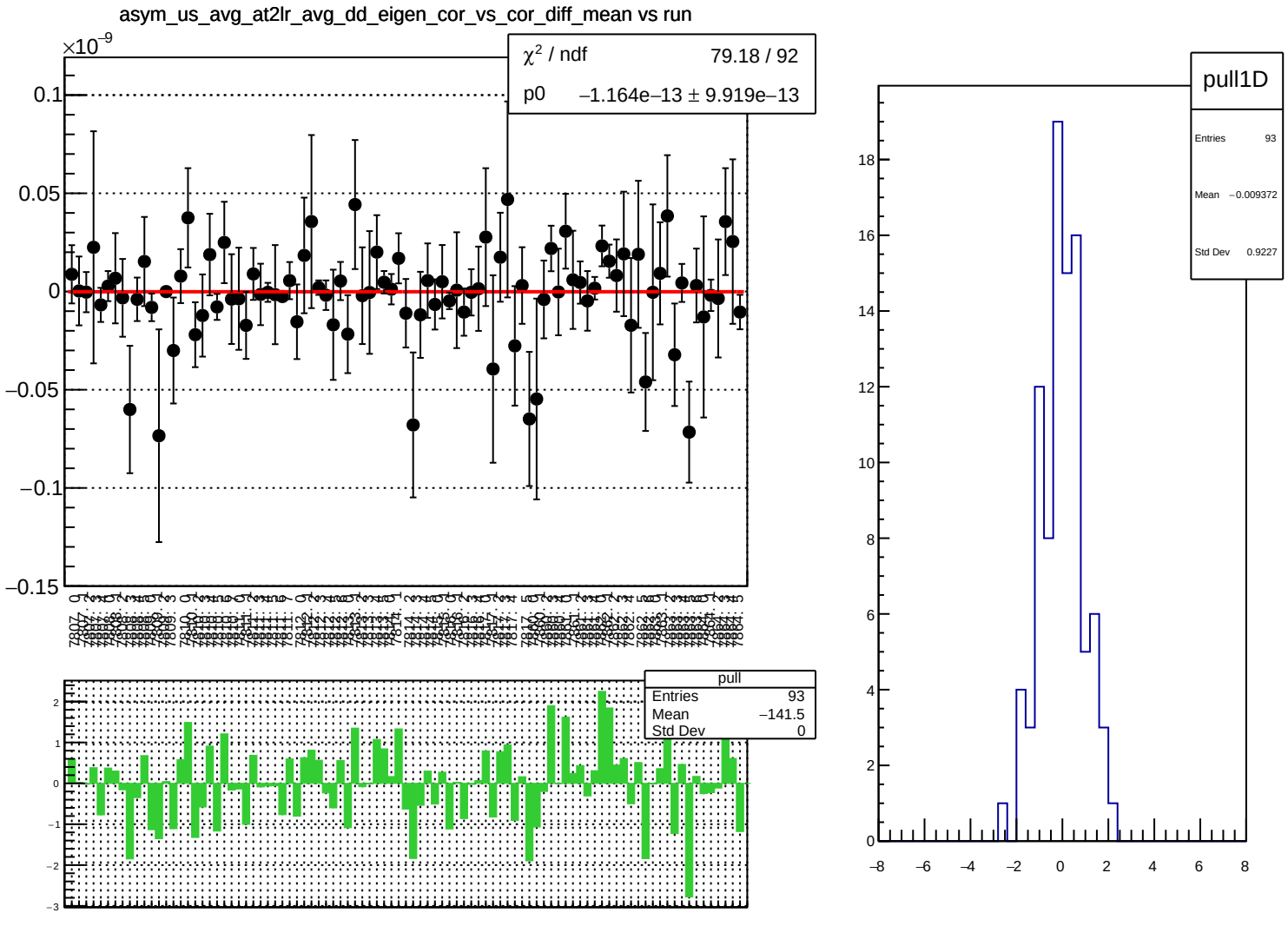

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.047e+04 / 92
p0 0.02104 ± 1.555e−05
0.026
0.025
0.024
0.023
0.022
0.021
0.02
0.019
0.018

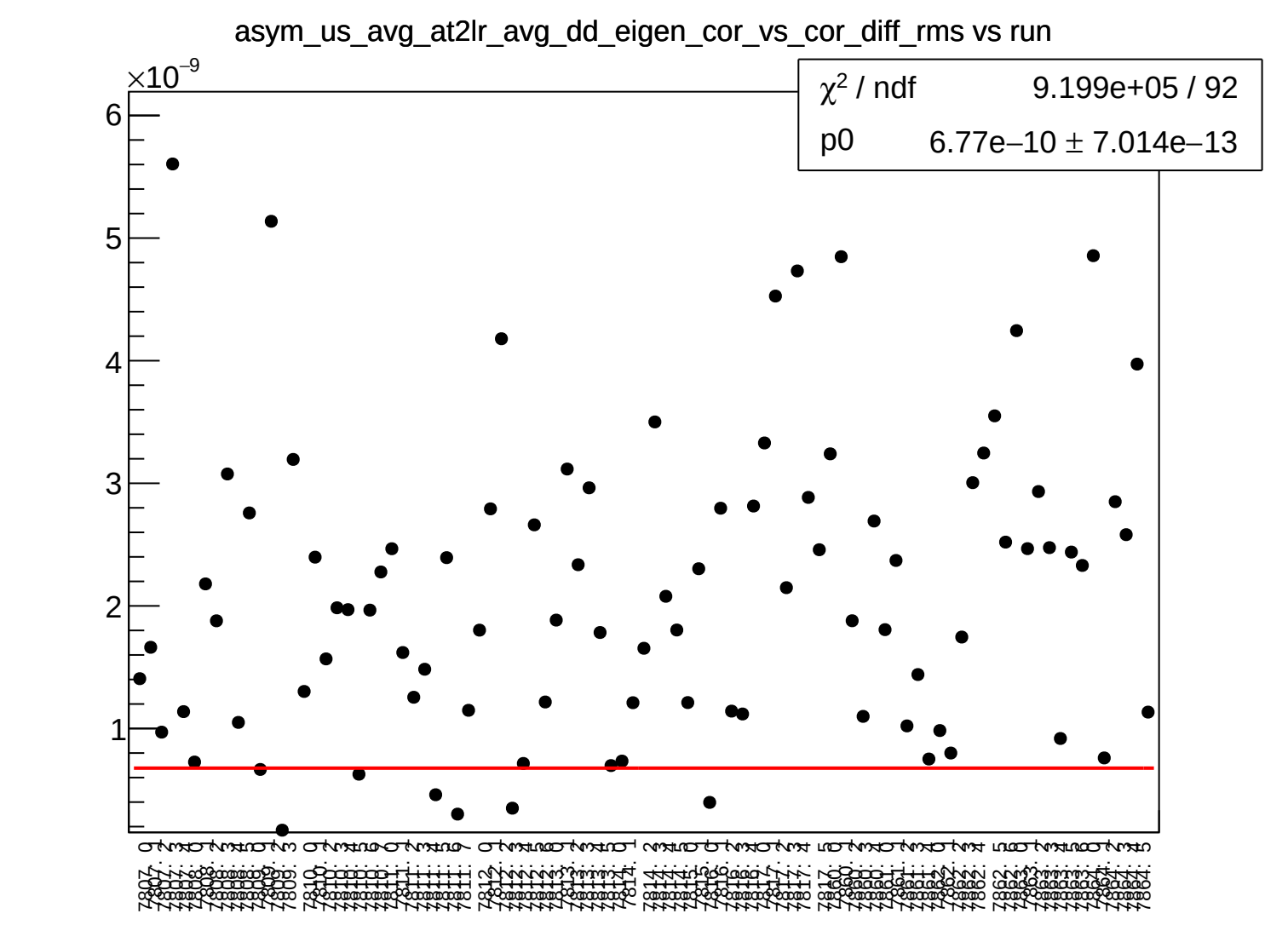

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.81 / 92
p0 −0.2003 ± 0.4278
pull
Entries 93
Mean 418.1
Std Dev 0
pull1D
Entries 93
Mean −0.005912
Std Dev 0.9493

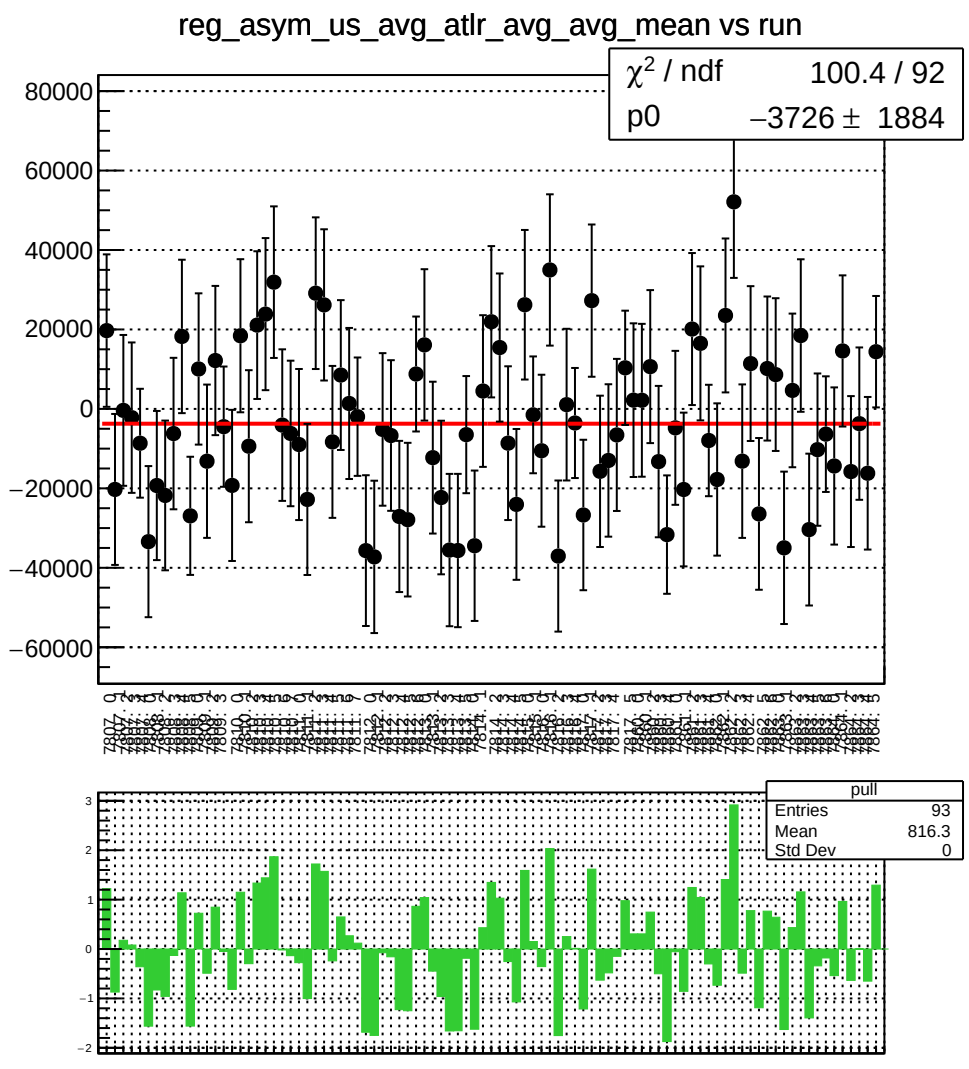

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.406e+04 / 92
p0 410 ± 0.3025
540
520
500
480
460
440
420
400
380
360
340

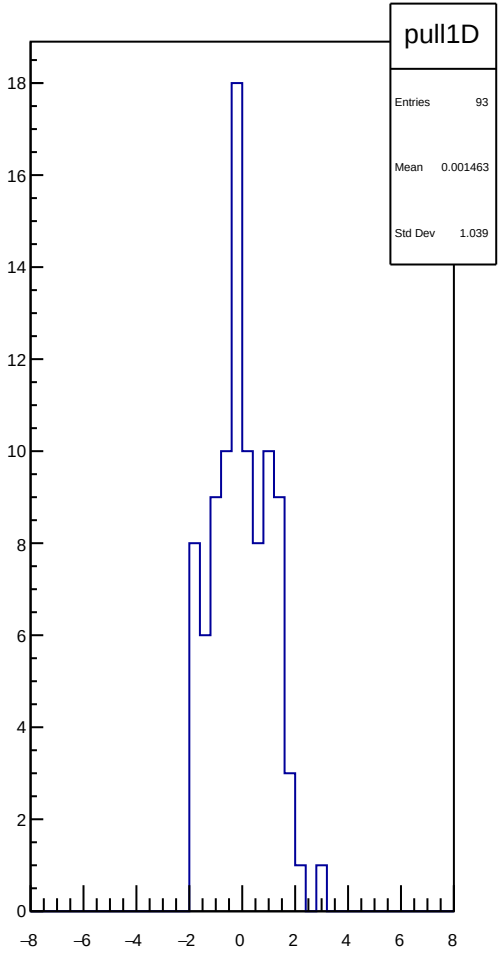

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.81 / 92
p0 −0.2003 ± 0.4278
pull
Entries 93
Mean 418.1
Std Dev 0
pull1D
Entries 93
Mean −0.005912
Std Dev 0.9493

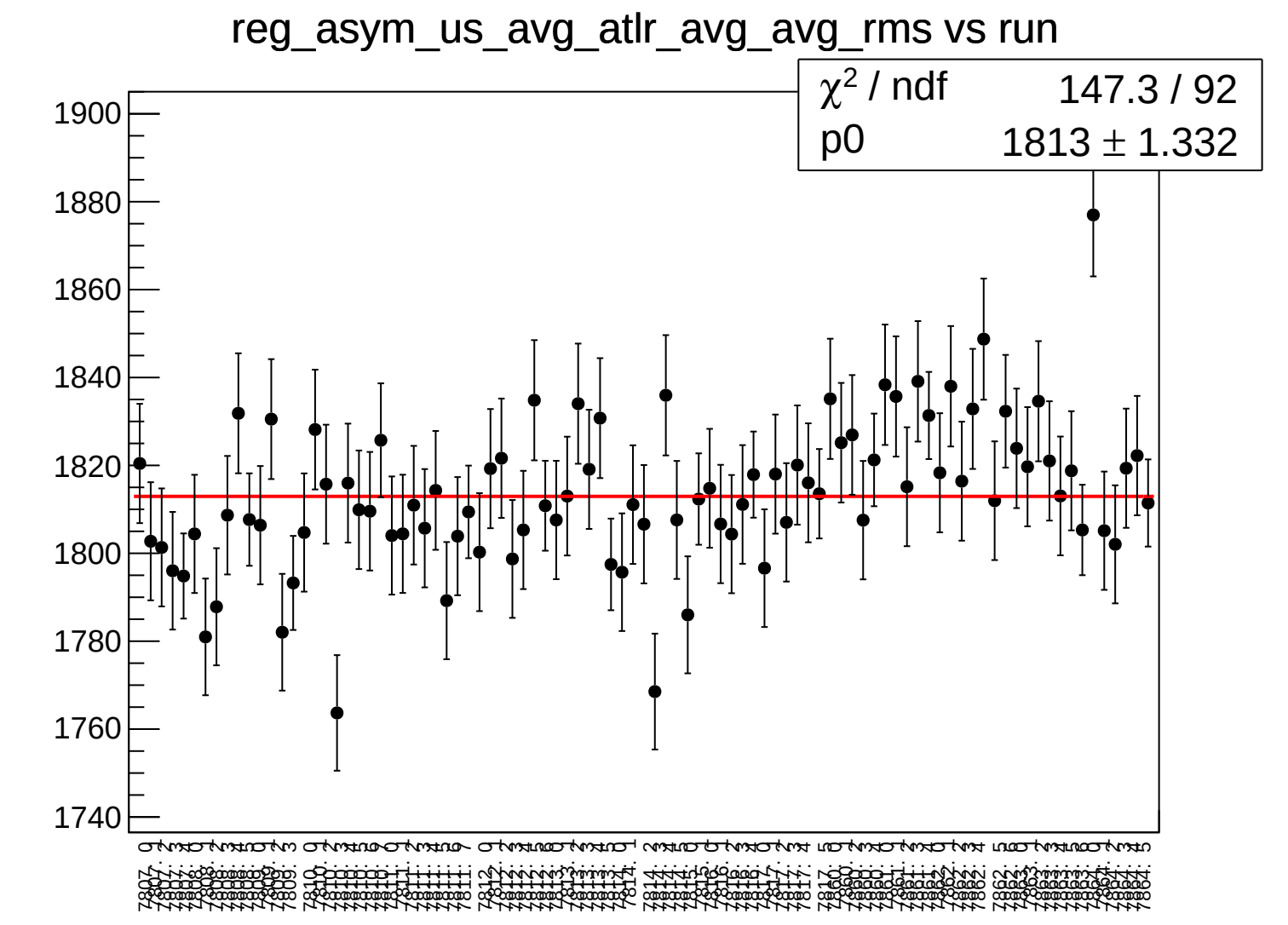

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.406e+04 / 92
p0 410 ± 0.3025
540
520
500
480
460
440
420
400
380
360
340

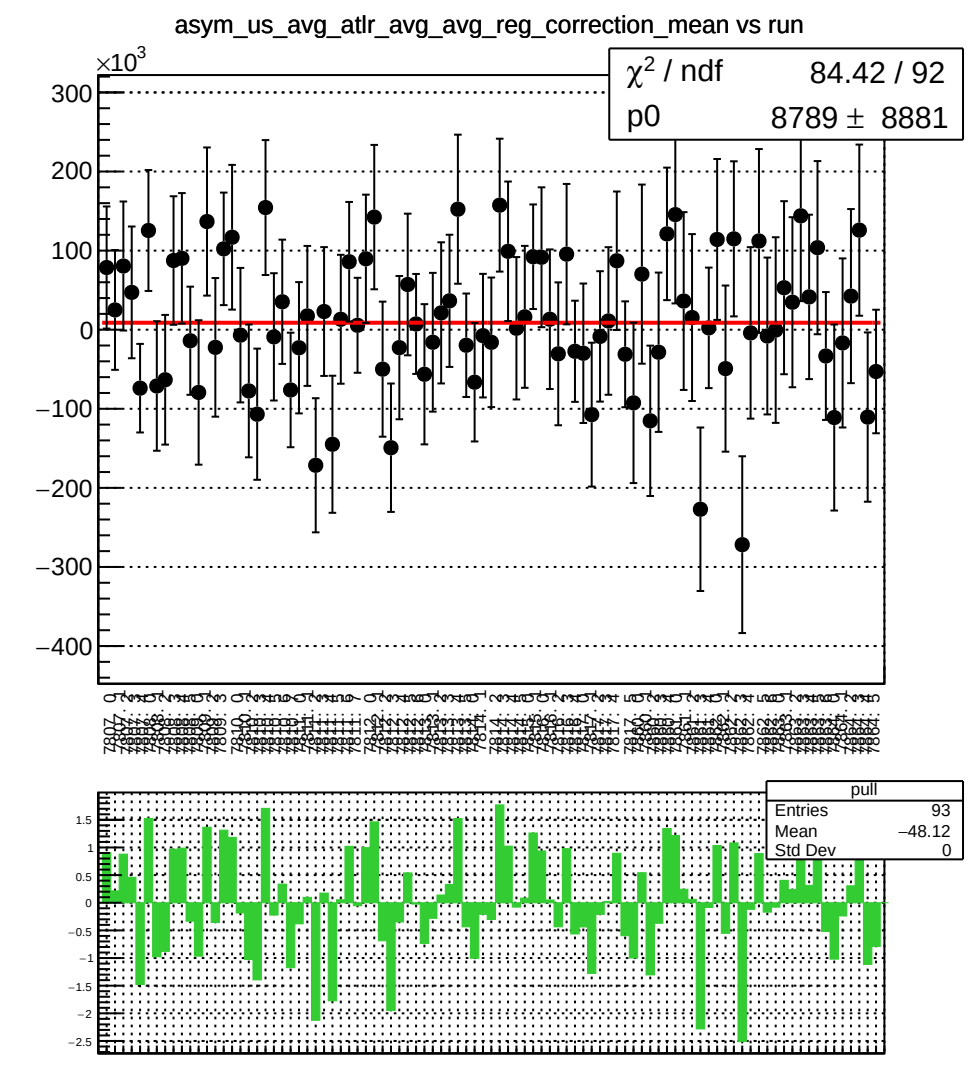

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 79.18 / 92
p0 −1.164e−13 ± 9.919e−13
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 93
Mean −141.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.009372
Std Dev 0.9227
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

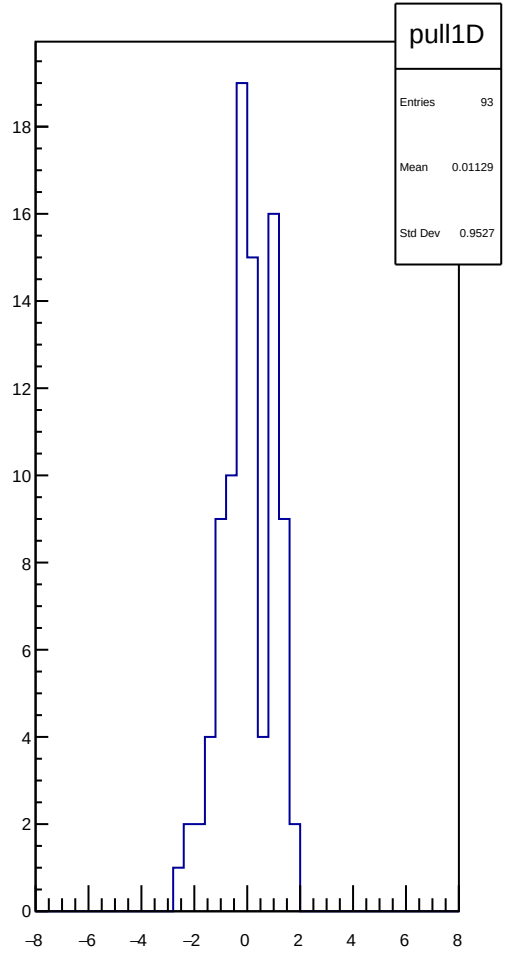

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.199e+05 / 92
p0 6.77e−10 ± 7.014e−13
6
5
4
3
2
1

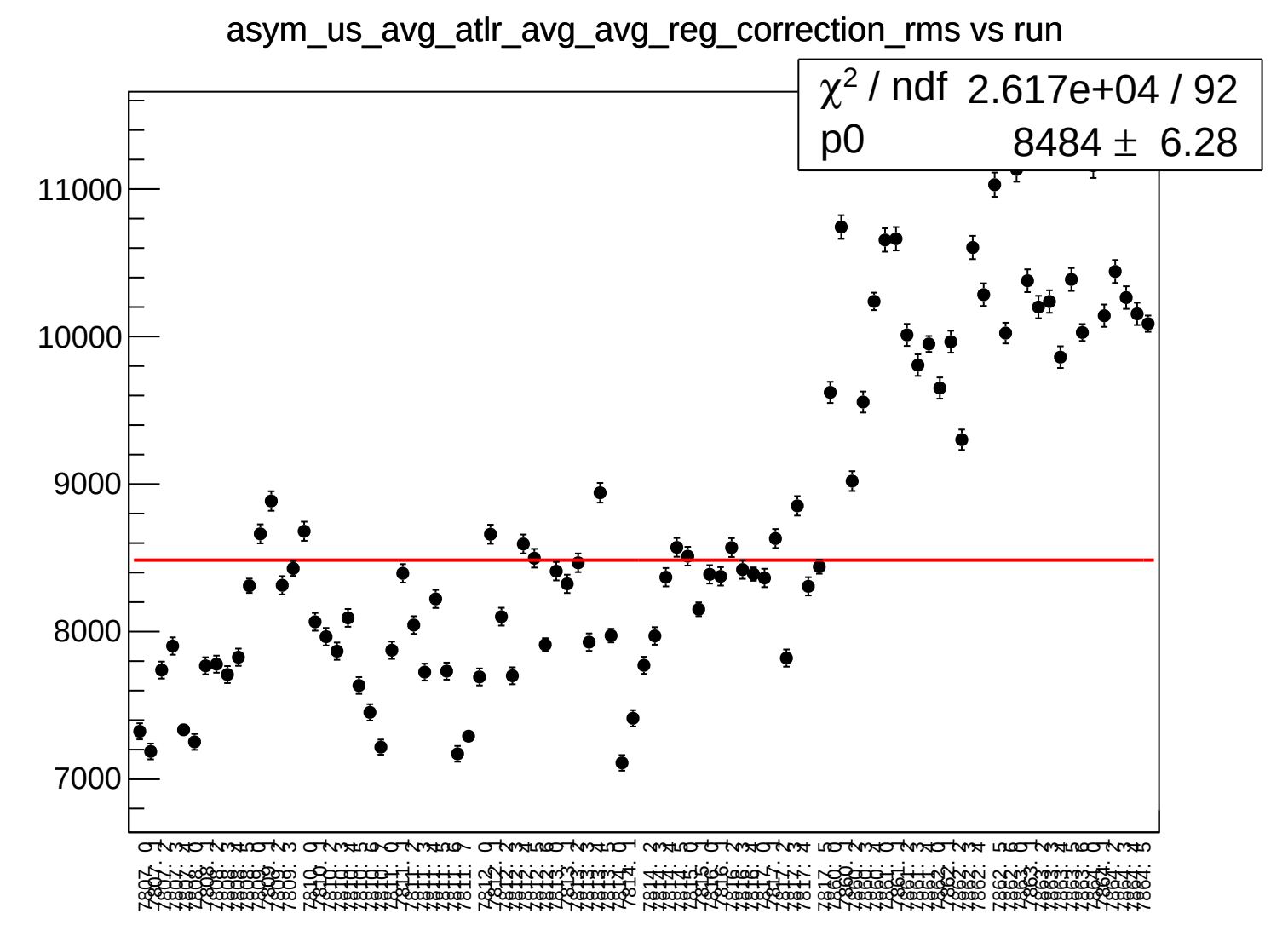

reg_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 100.4 / 92
p0 −3726 ± 1884
pull
Entries 93
Mean 816.3
Std Dev 0

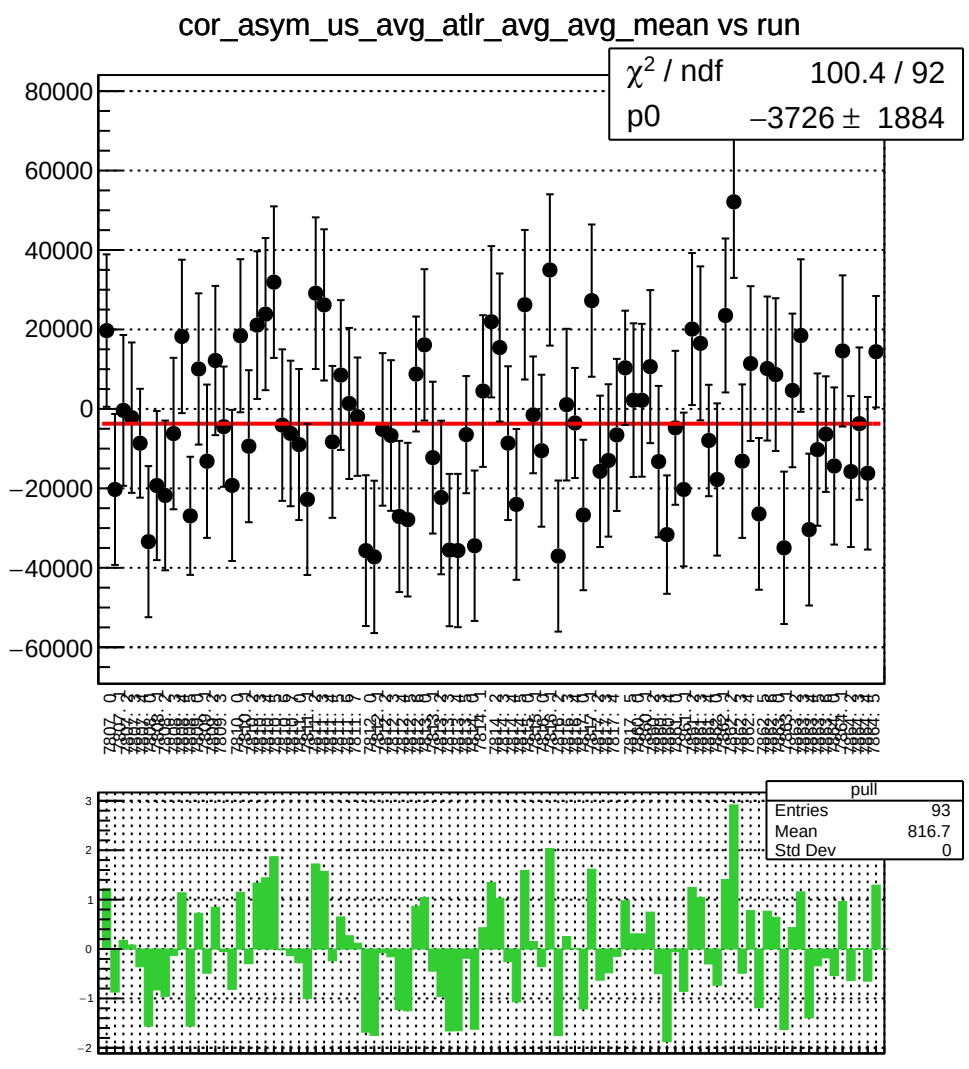

pull1D
Entries 93
Mean 0.001463
Std Dev 1.039

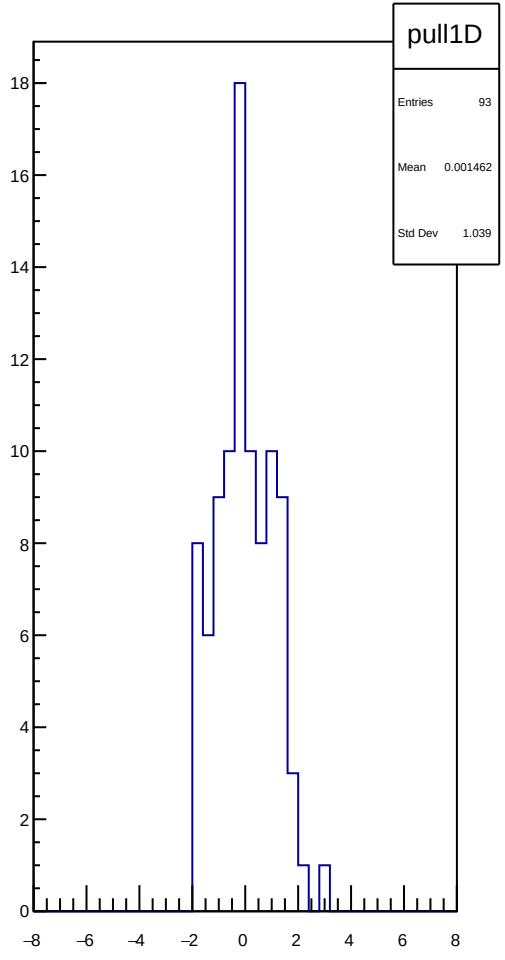

reg_asym_us_avg_atlr_avg_avg_rms vs run
χ^2 / ndf 147.3 / 92
p0 1813 ± 1.332
1900
1880
1860
1840
1820
1800
1780
1760
1740

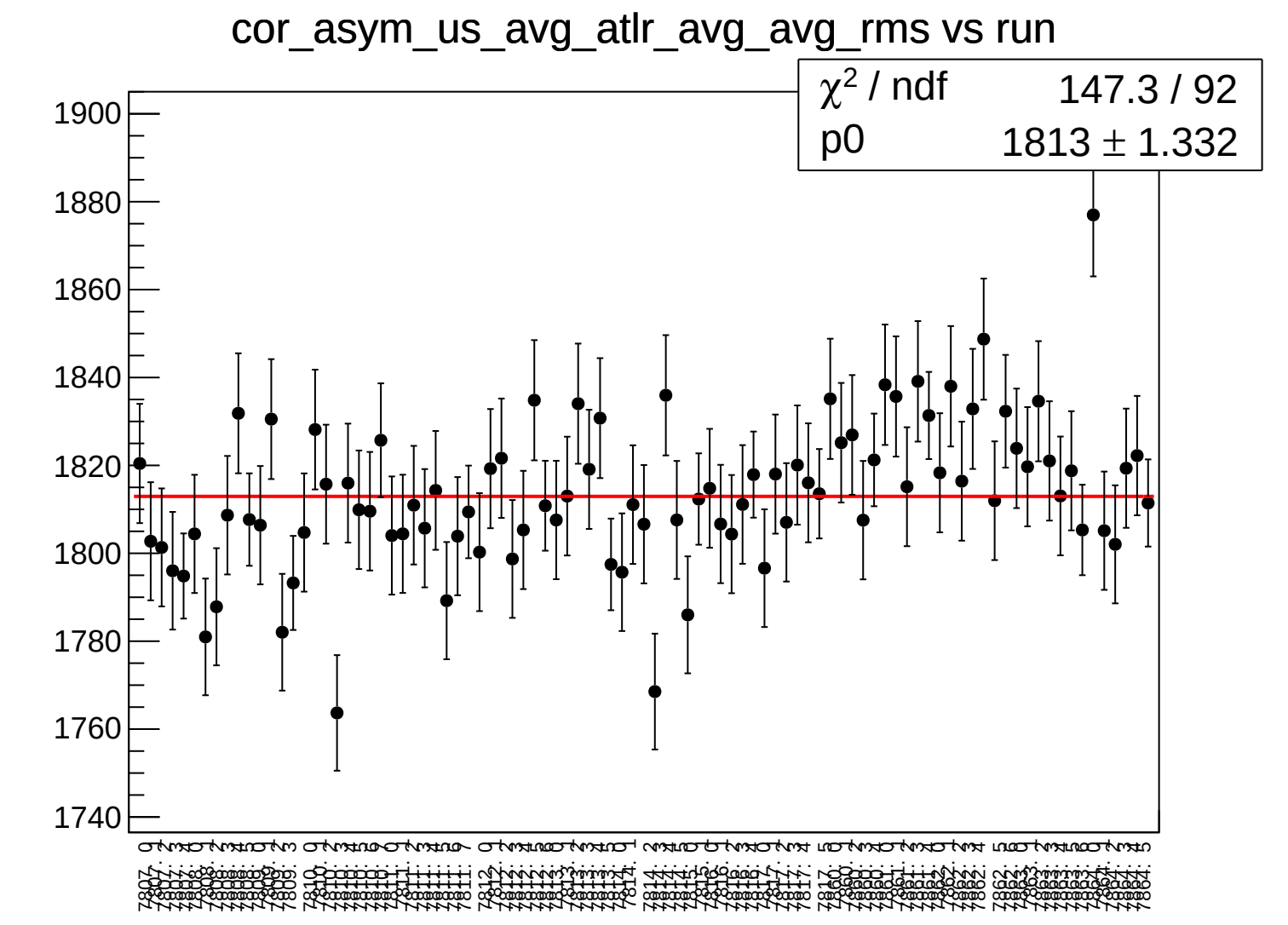

asym_us_avg_atlr_avg_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 84.42 / 92
p0 8789 ± 8881
pull
Entries 93
Mean −48.12
Std Dev 0

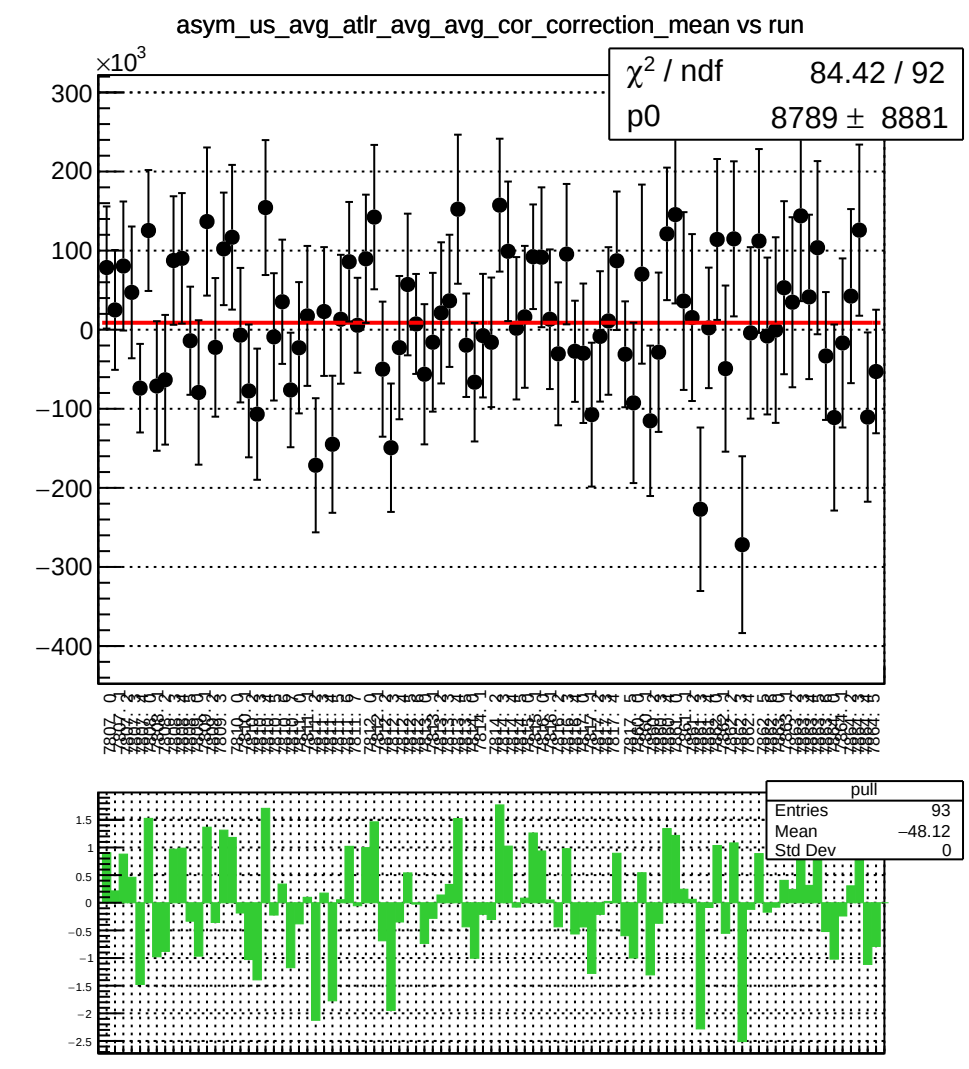

pull1D
Entries 93
Mean 0.01129
Std Dev 0.9527

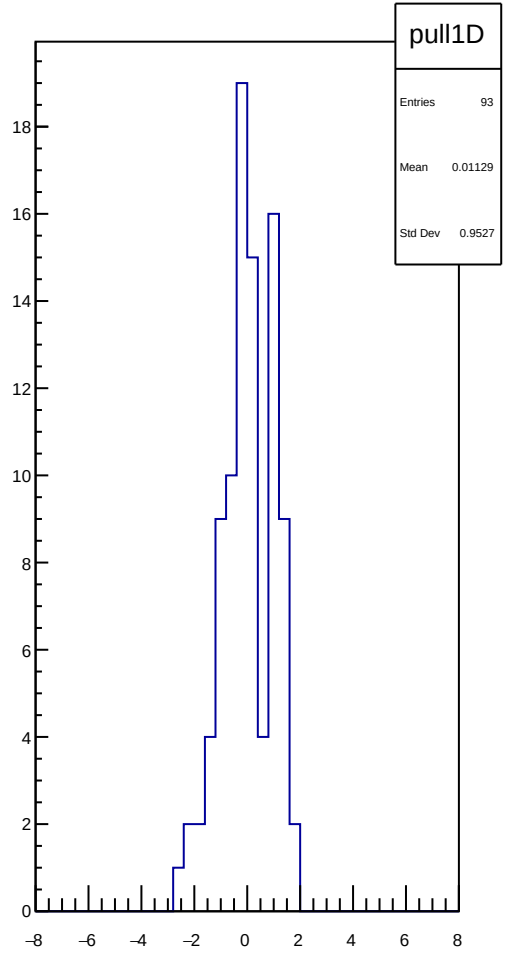

asym_us_avg_atlr_avg_avg_reg_correction_rms vs run
χ² / ndf 2.617e+04 / 92
p0 8484 ± 6.28
11000
10000
9000
8000
7000

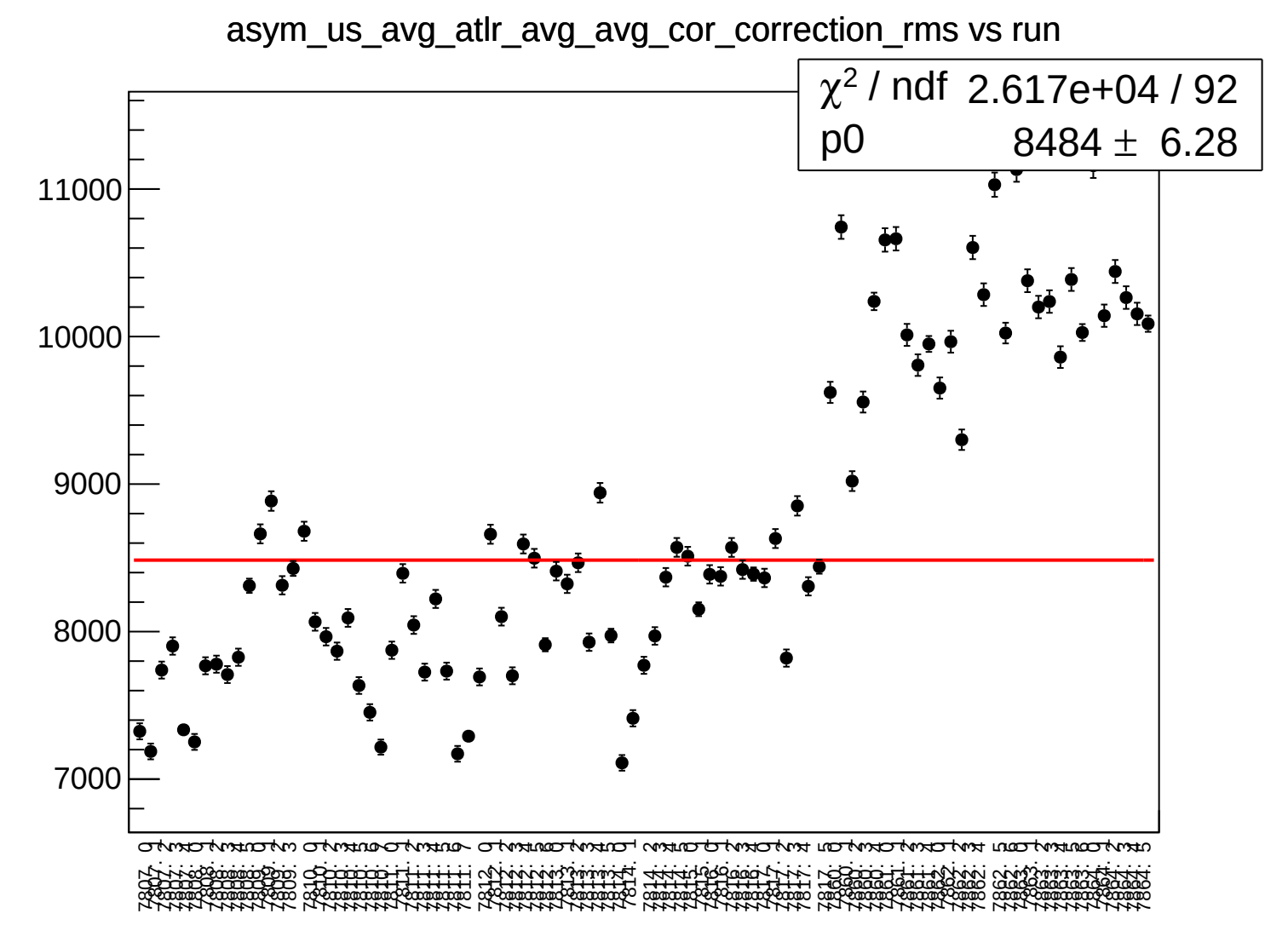

cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 100.4 / 92
p0 −3726 ± 1884
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 816.7
Std Dev 0
3
2
1
0
−1
−2

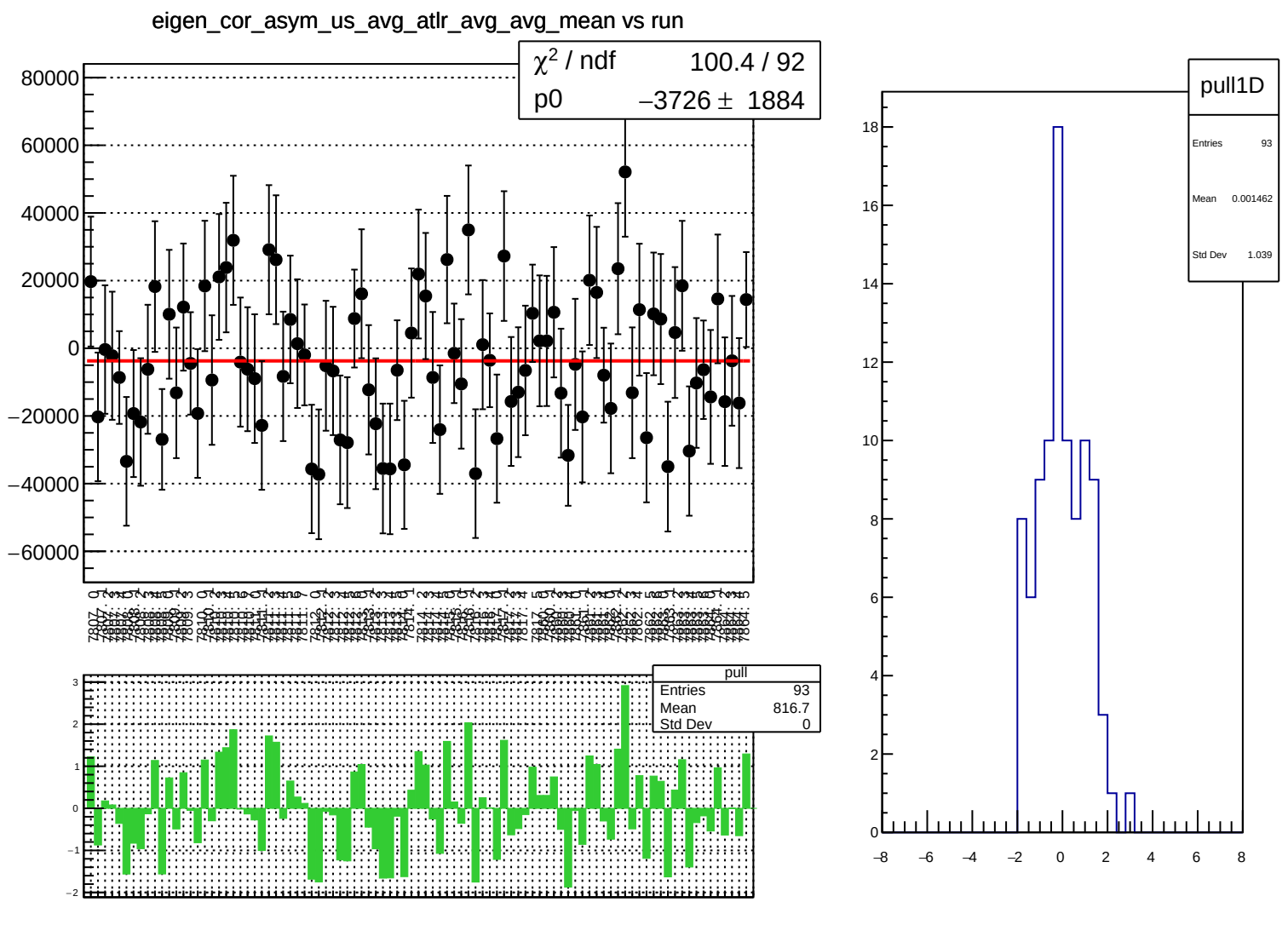

pull1D
Entries 93
Mean 0.001462
Std Dev 1.039
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

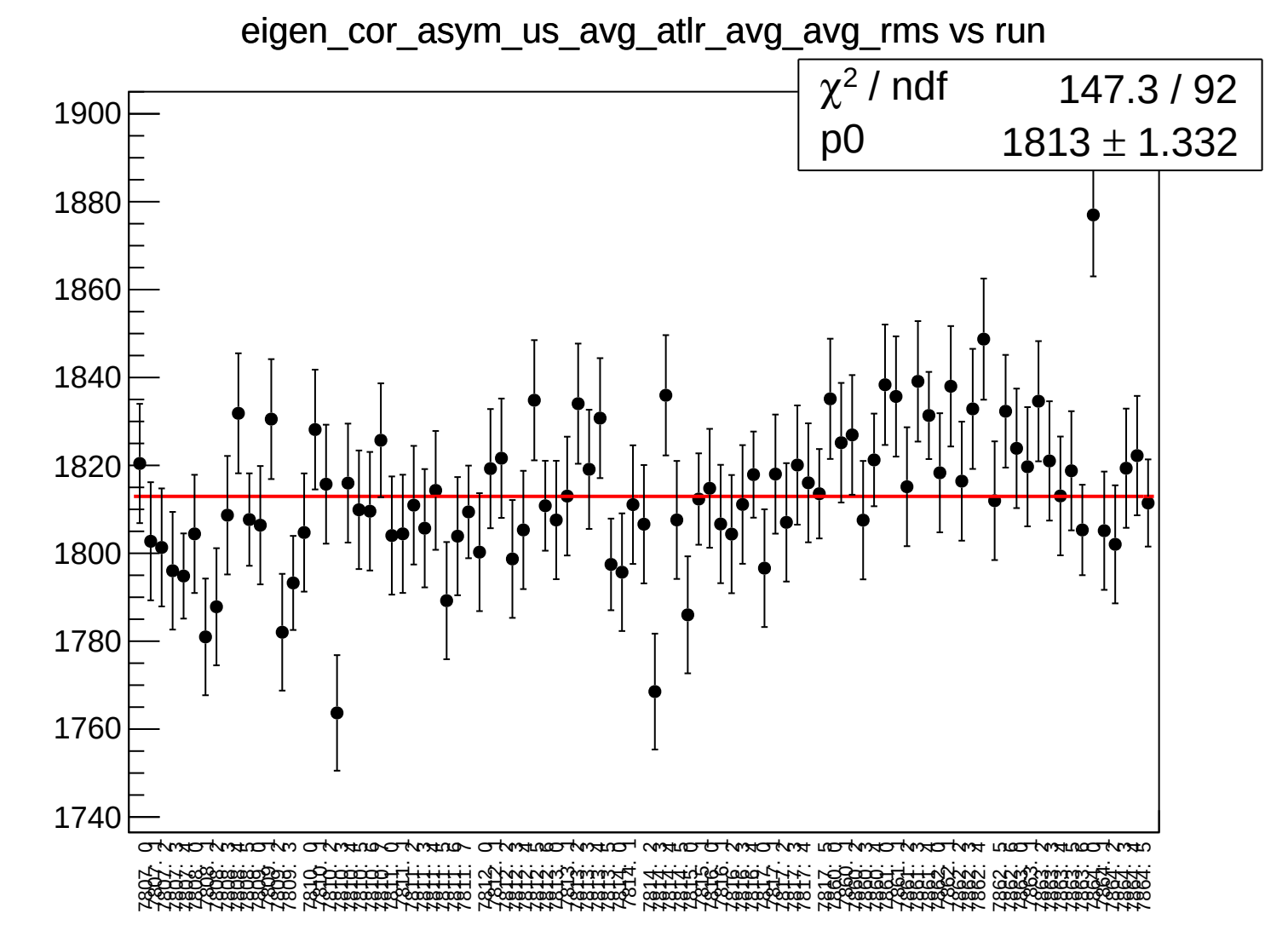

cor_asym_us_avg_atlr_avg_avg_rms vs run
χ^2 / ndf 147.3 / 92
p0 1813 ± 1.332
1900
1880
1860
1840
1820
1800
1780
1760
1740

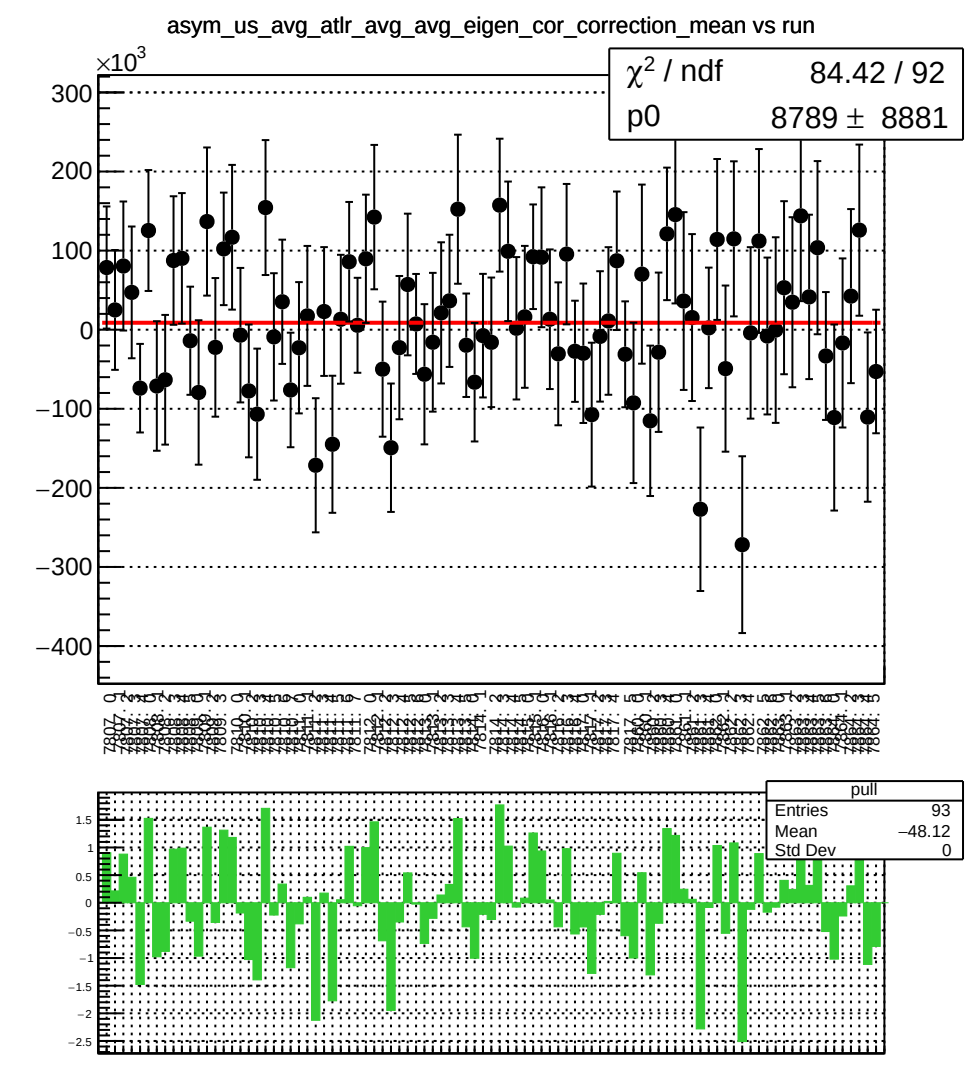

asym_us_avg_atlr_avg_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 84.42 / 92
p0 8789 ± 8881
pull
Entries 93
Mean −48.12
Std Dev 0

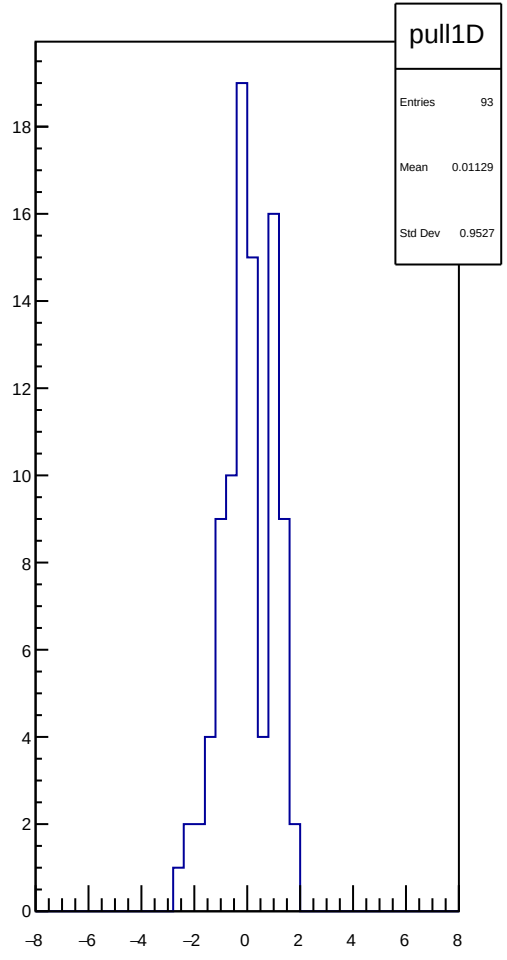

pull1D
Entries 93
Mean 0.01129
Std Dev 0.9527

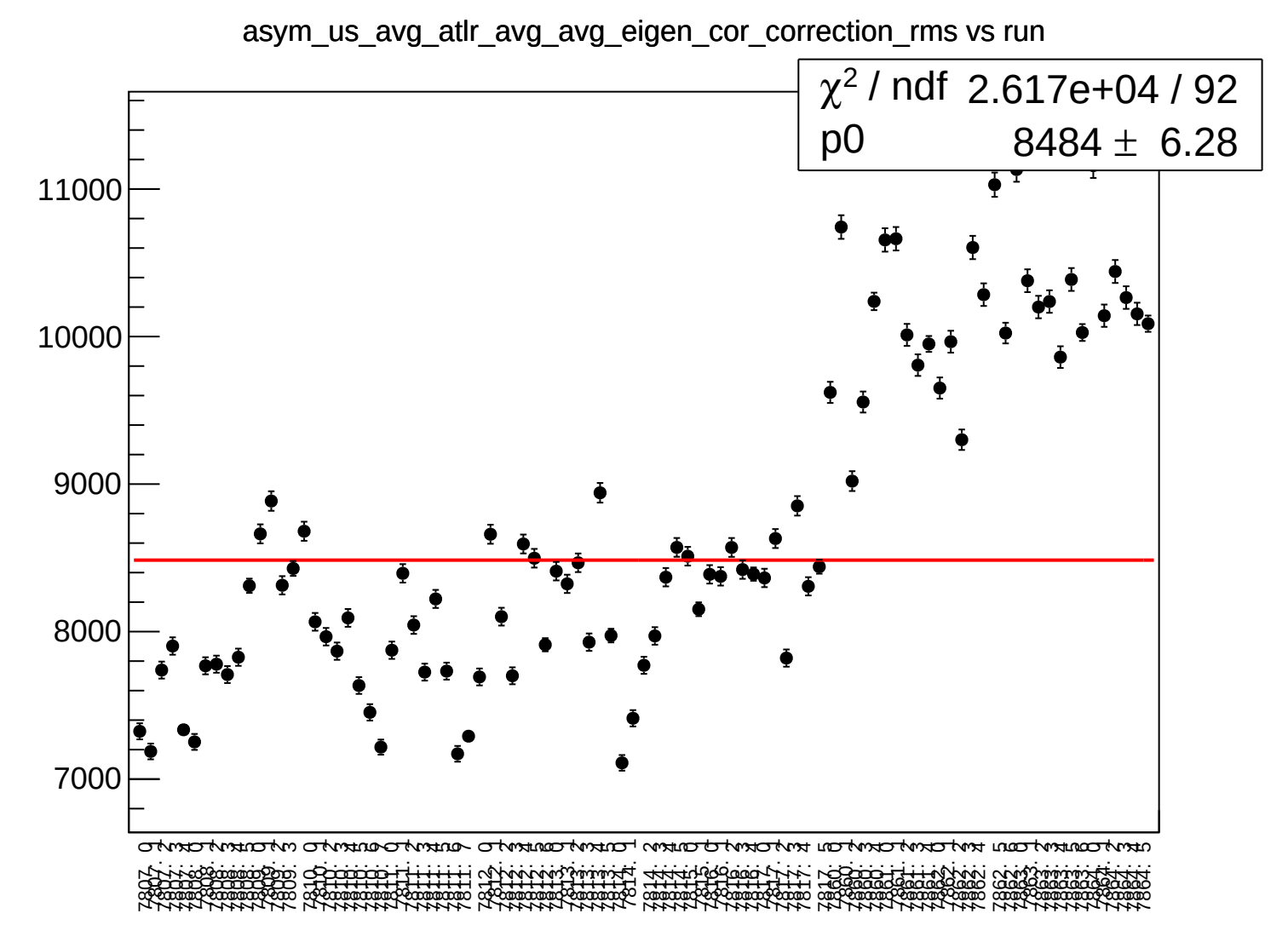

asym_us_avg_atlr_avg_avg_cor_correction_rms vs run
χ² / ndf 2.617e+04 / 92
p0 8484 ± 6.28
11000
10000
9000
8000
7000

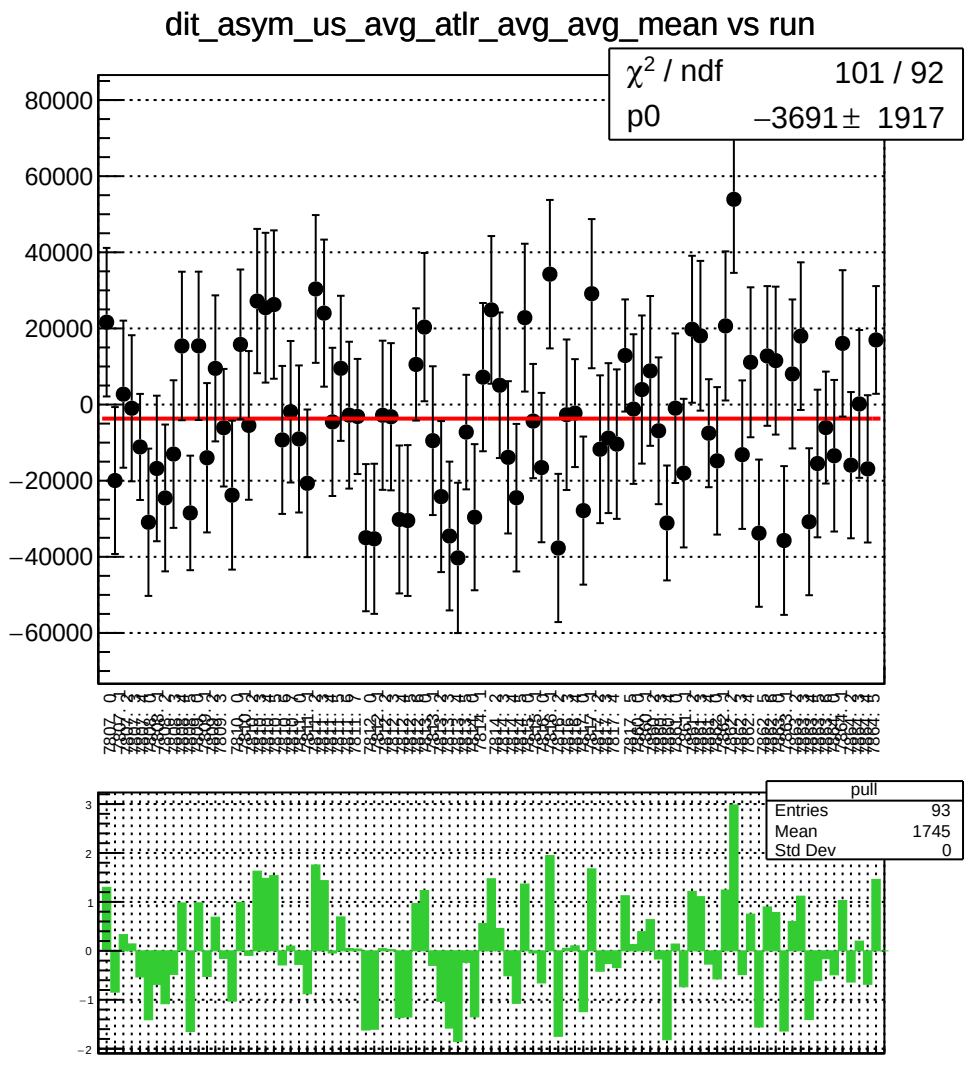

eigen_cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 100.4 / 92
p0 −3726 ± 1884
pull
Entries 93
Mean 816.7
Std Dev 0
pull1D
Entries 93
Mean 0.001462
Std Dev 1.039

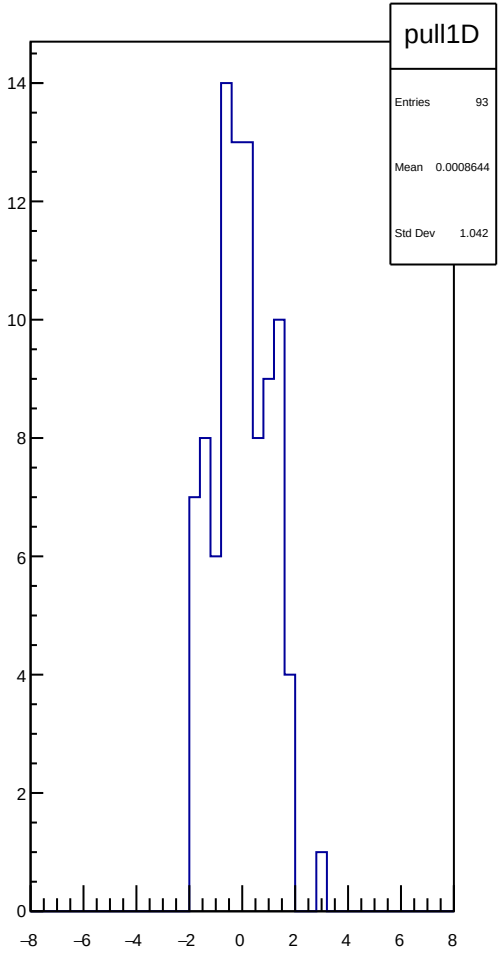

eigen_cor_asym_us_avg_atlr_avg_avg_rms vs run
χ^2 / ndf 147.3 / 92
p0 1813 ± 1.332
1900
1880
1860
1840
1820
1800
1780
1760
1740

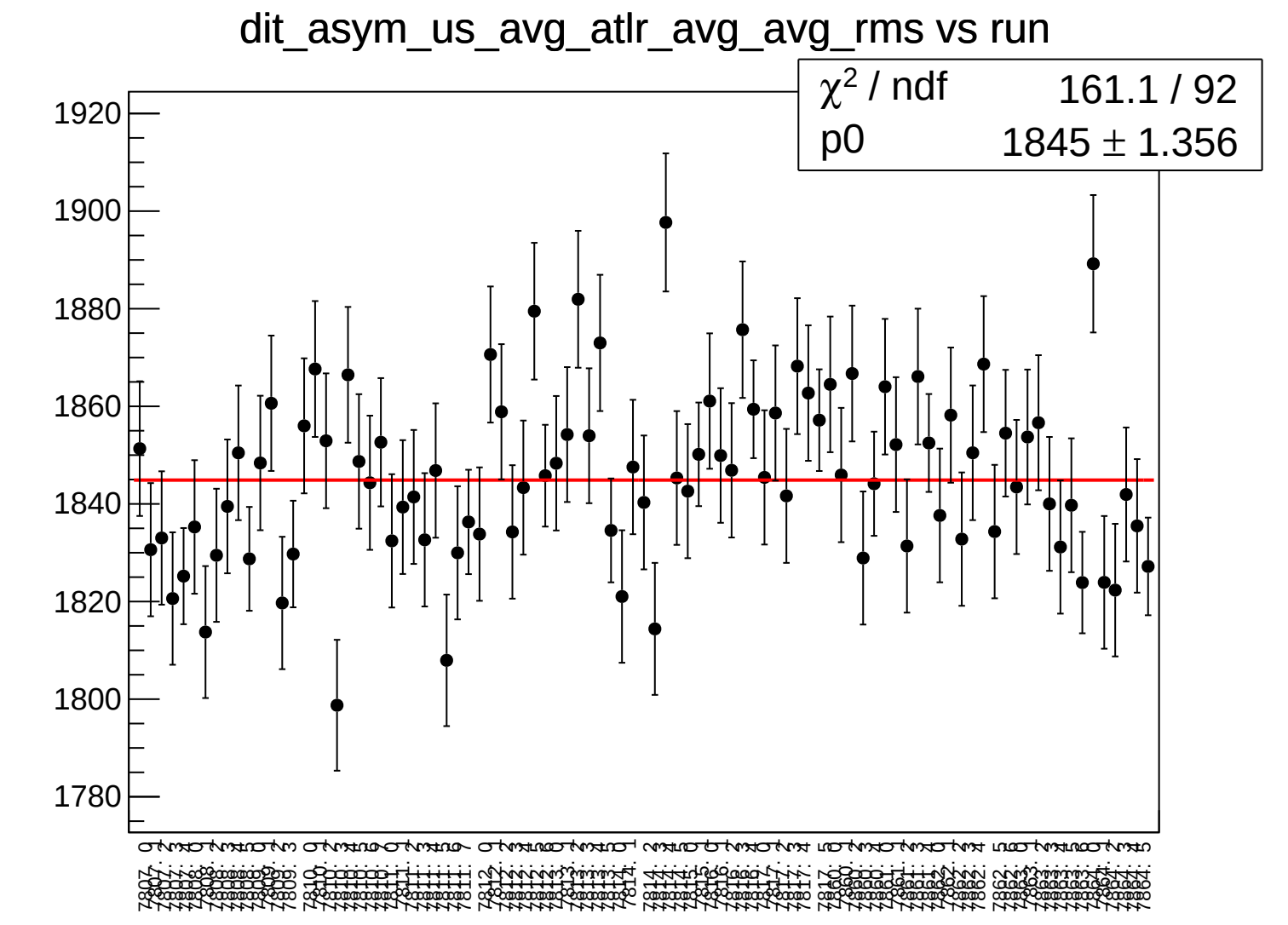

asym_us_avg_atlr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 84.42 / 92
p0 8789 ± 8881
pull
Entries 93
Mean −48.12
Std Dev 0

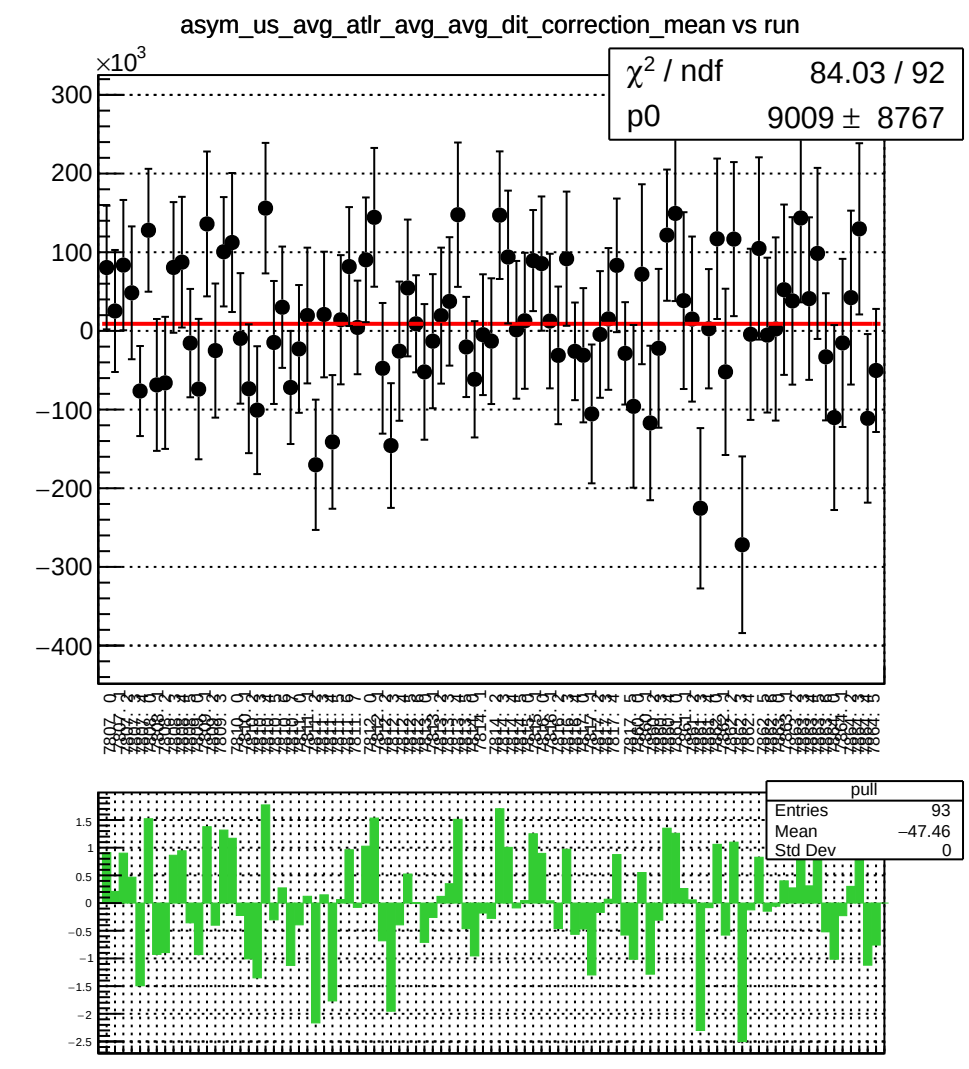

pull1D
Entries 93
Mean 0.01129
Std Dev 0.9527

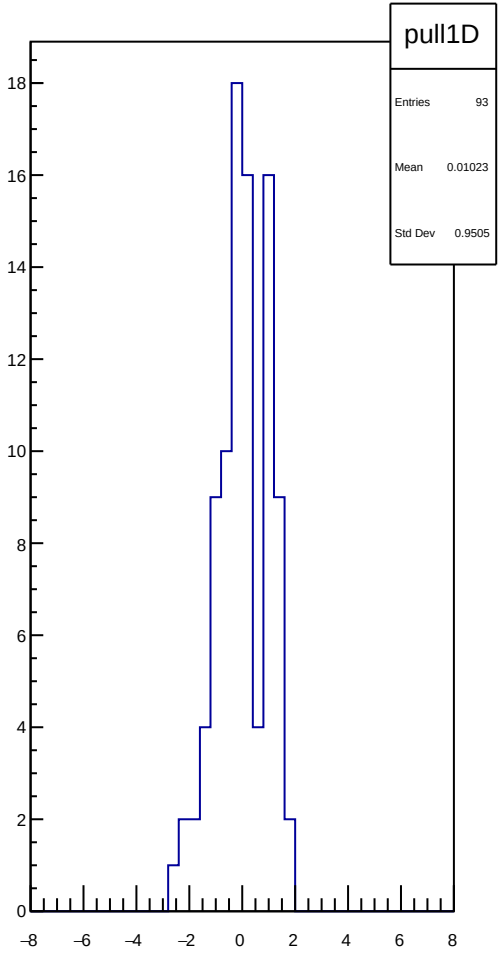

asym_us_avg_atlr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.617e+04 / 92
p0 8484 ± 6.28
11000
10000
9000
8000
7000

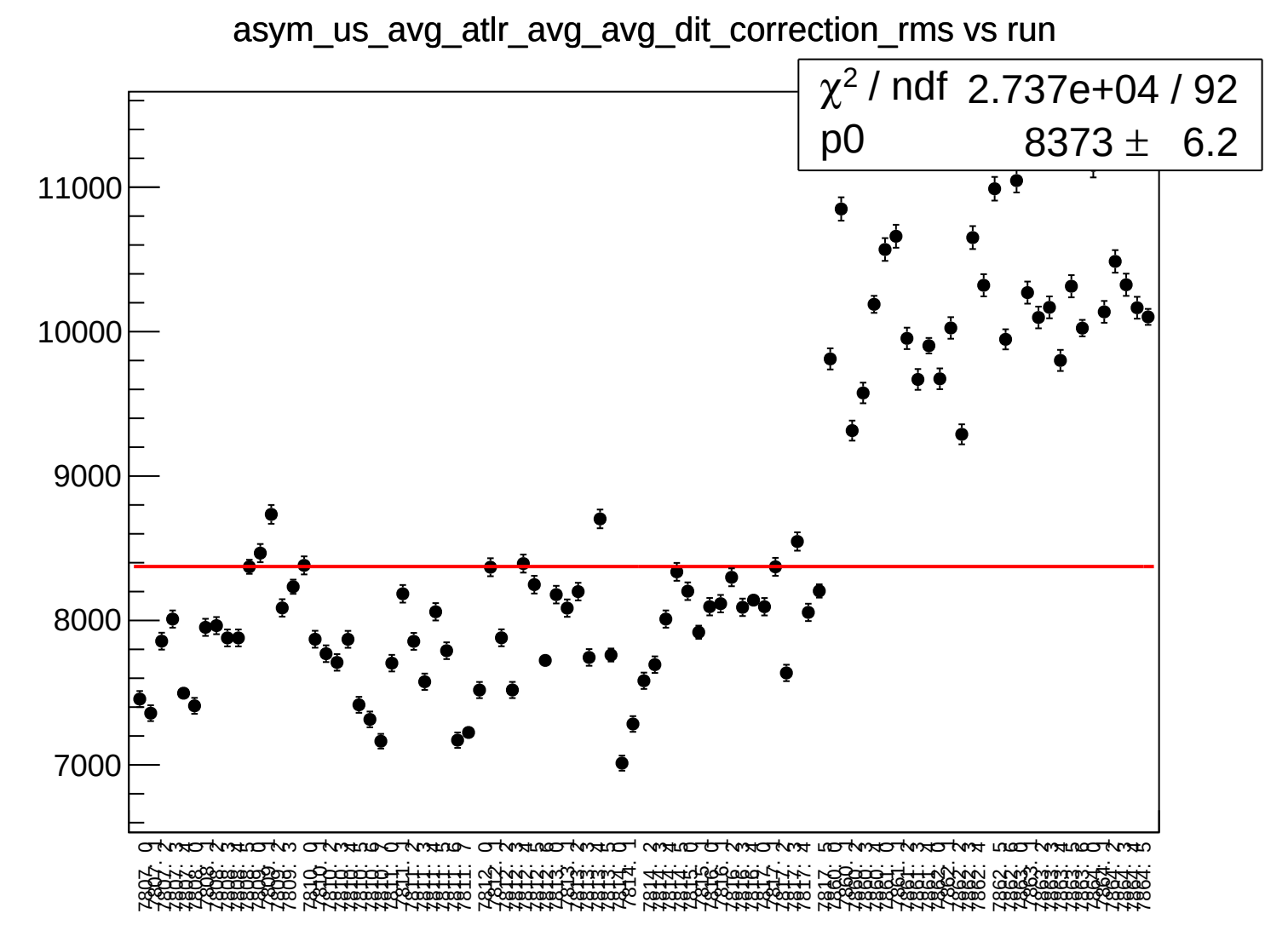

dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 101 / 92
p0 −3691 ± 1917
pull
Entries 93
Mean 1745
Std Dev 0

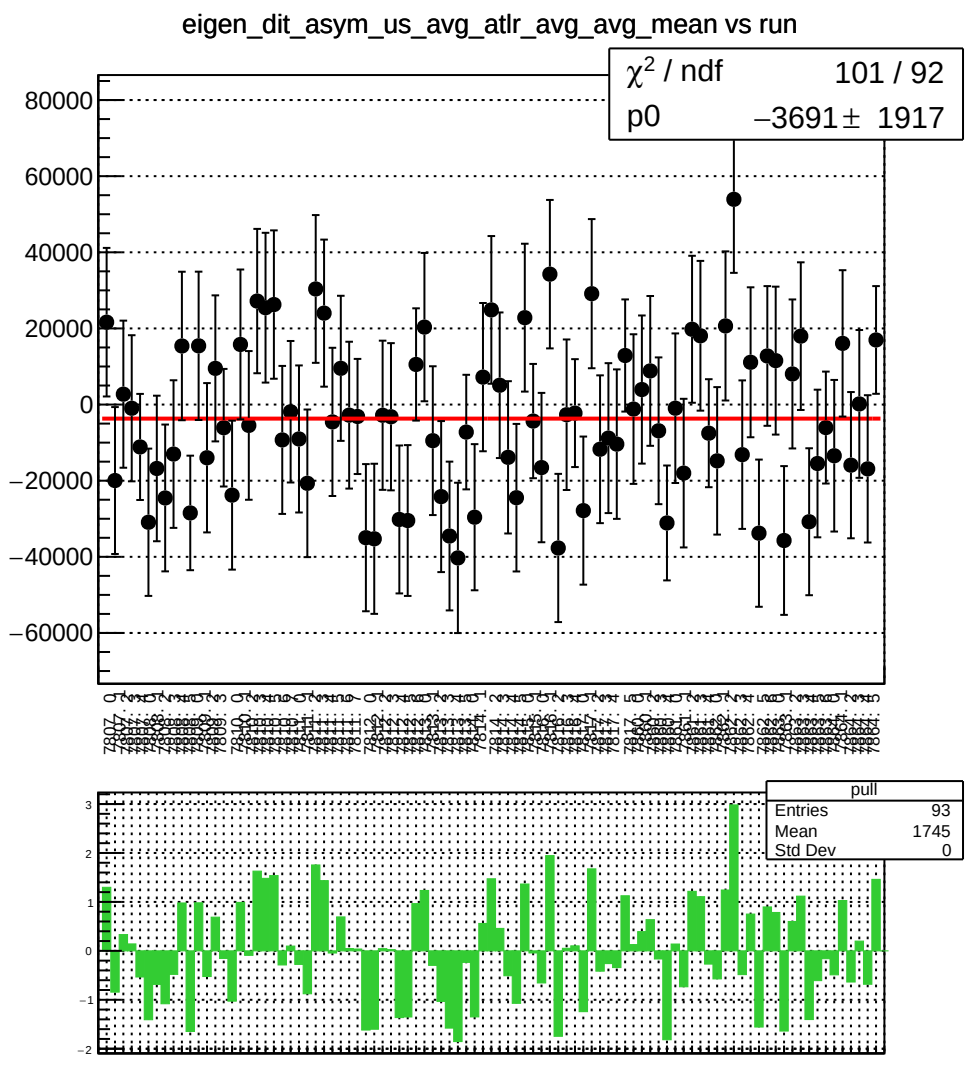

pull1D
Entries 93
Mean 0.0008644
Std Dev 1.042

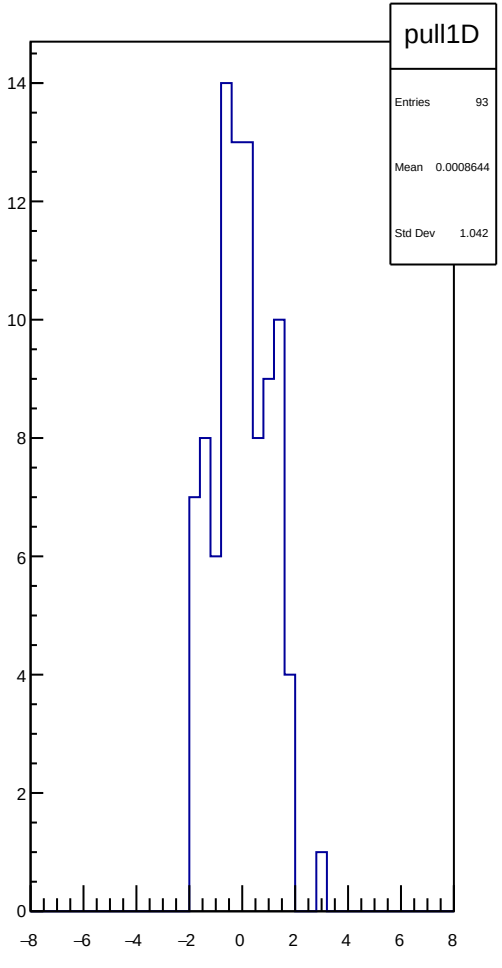

dit_asym_us_avg_atlr_avg_avg_rms vs run
χ^2 / ndf 161.1 / 92
p0 1845 ± 1.356
1920
1900
1880
1860
1840
1820
1800
1780

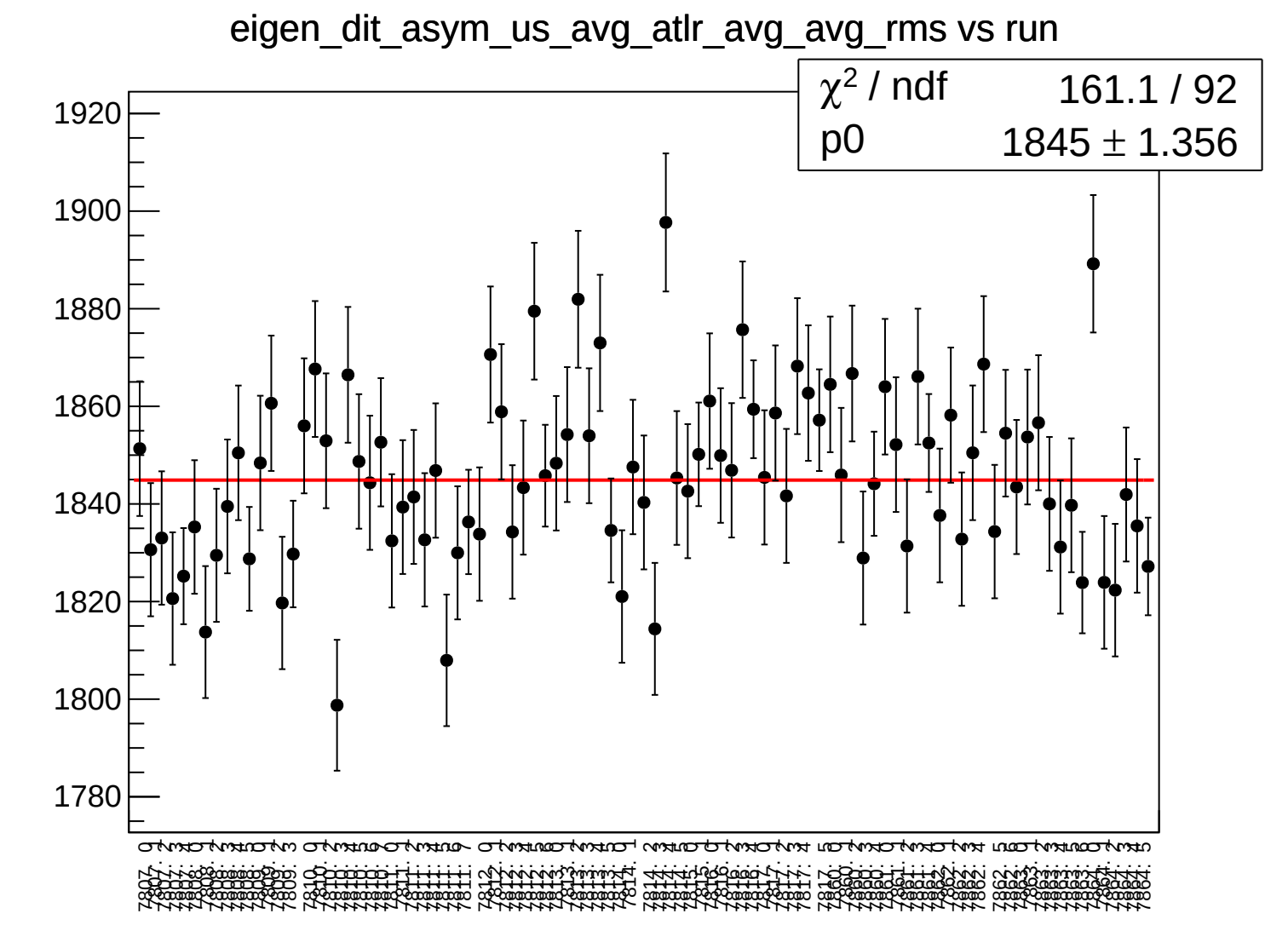

asym_us_avg_atlr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 84.03 / 92
p0 9009 ± 8767
pull
Entries 93
Mean −47.46
Std Dev 0

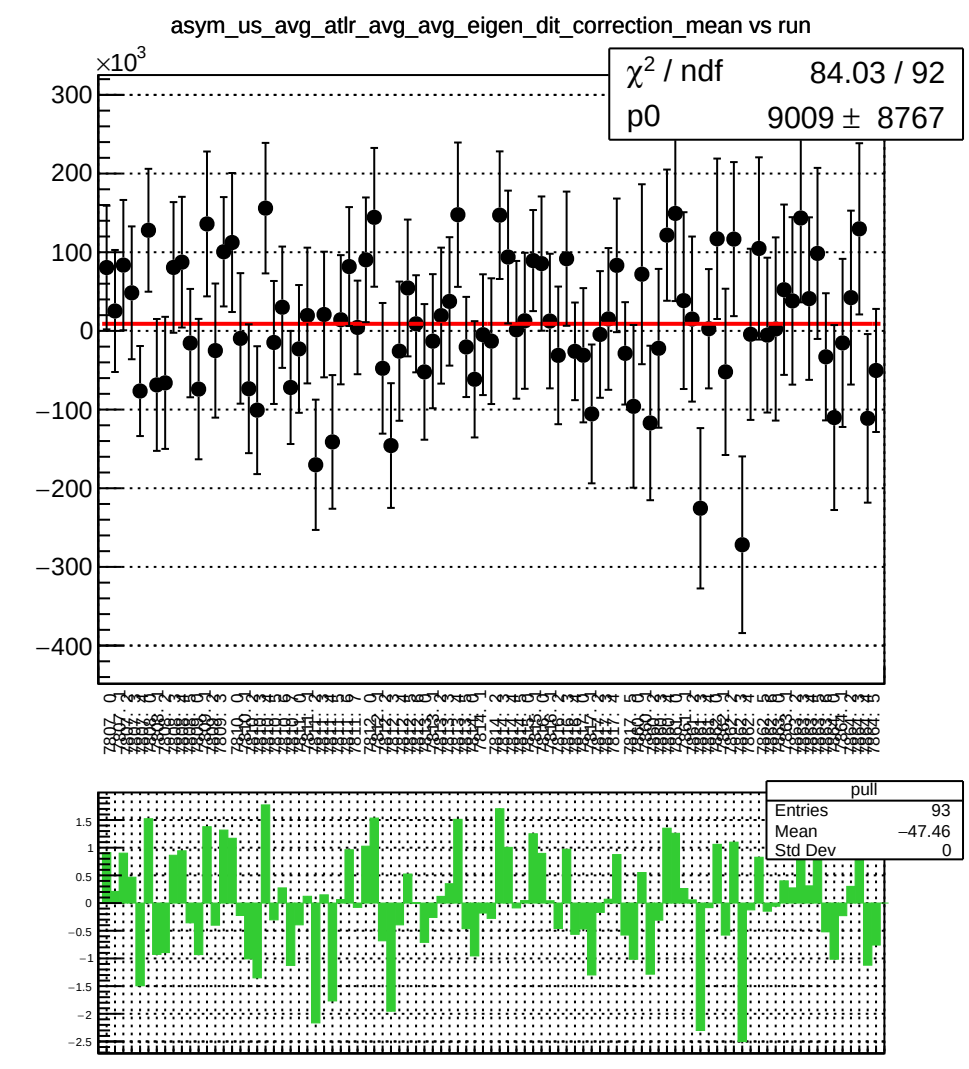

pull1D
Entries 93
Mean 0.01023
Std Dev 0.9505

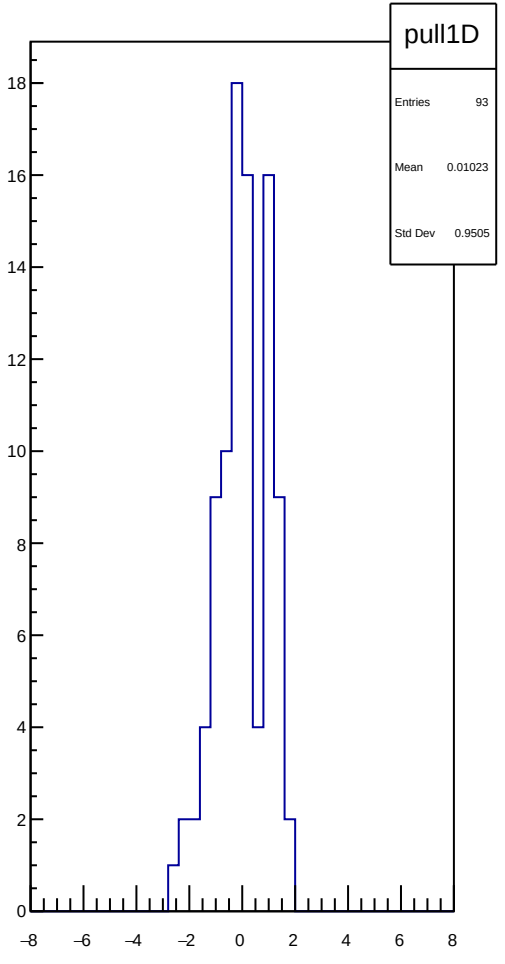

asym_us_avg_atlr_avg_avg_dit_correction_rms vs run
χ² / ndf 2.737e+04 / 92
p0 8373 ± 6.2
11000
10000
9000
8000
7000

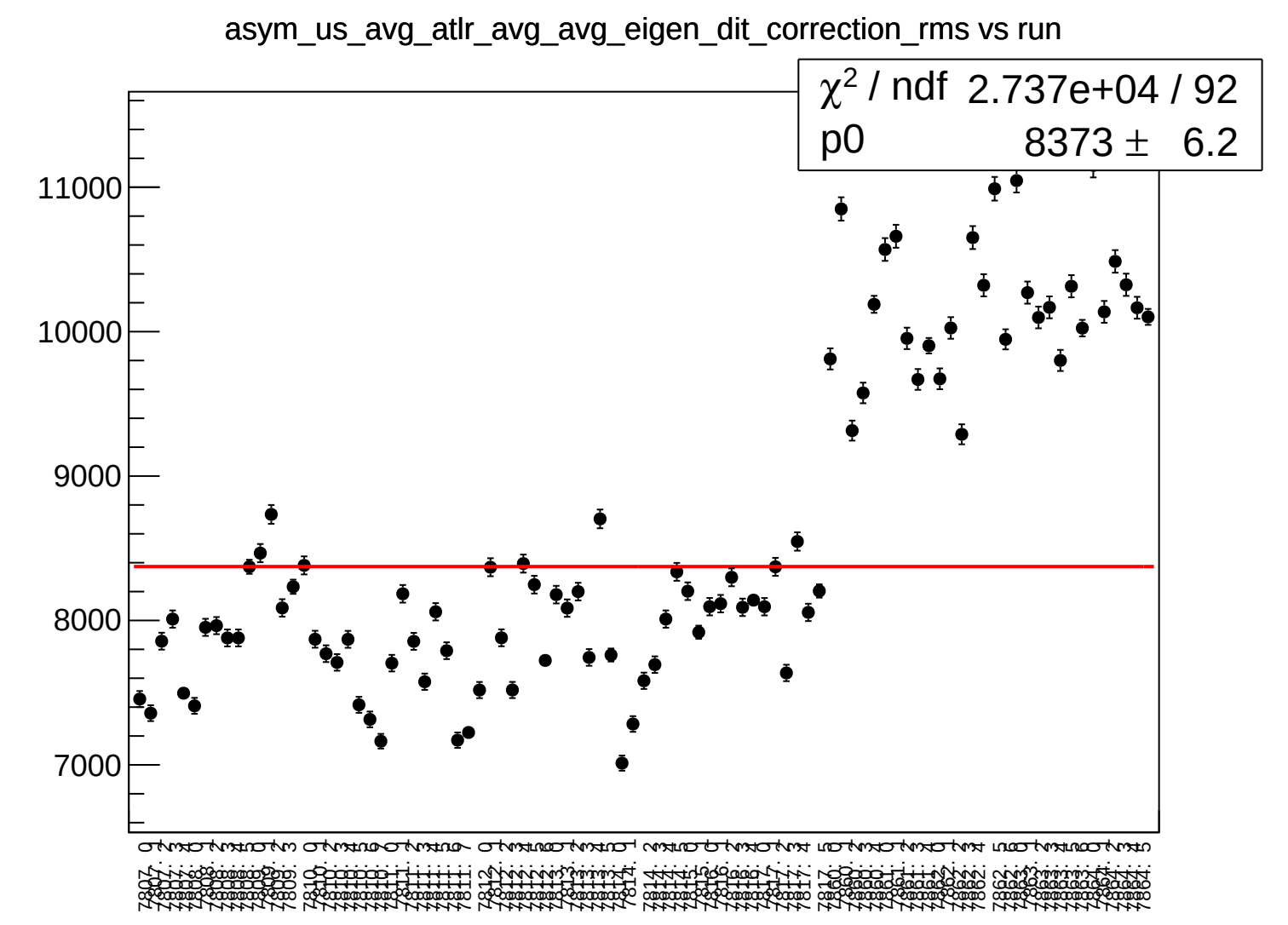

eigen_dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 101 / 92
p0 −3691 ± 1917
pull
Entries 93
Mean 1745
Std Dev 0

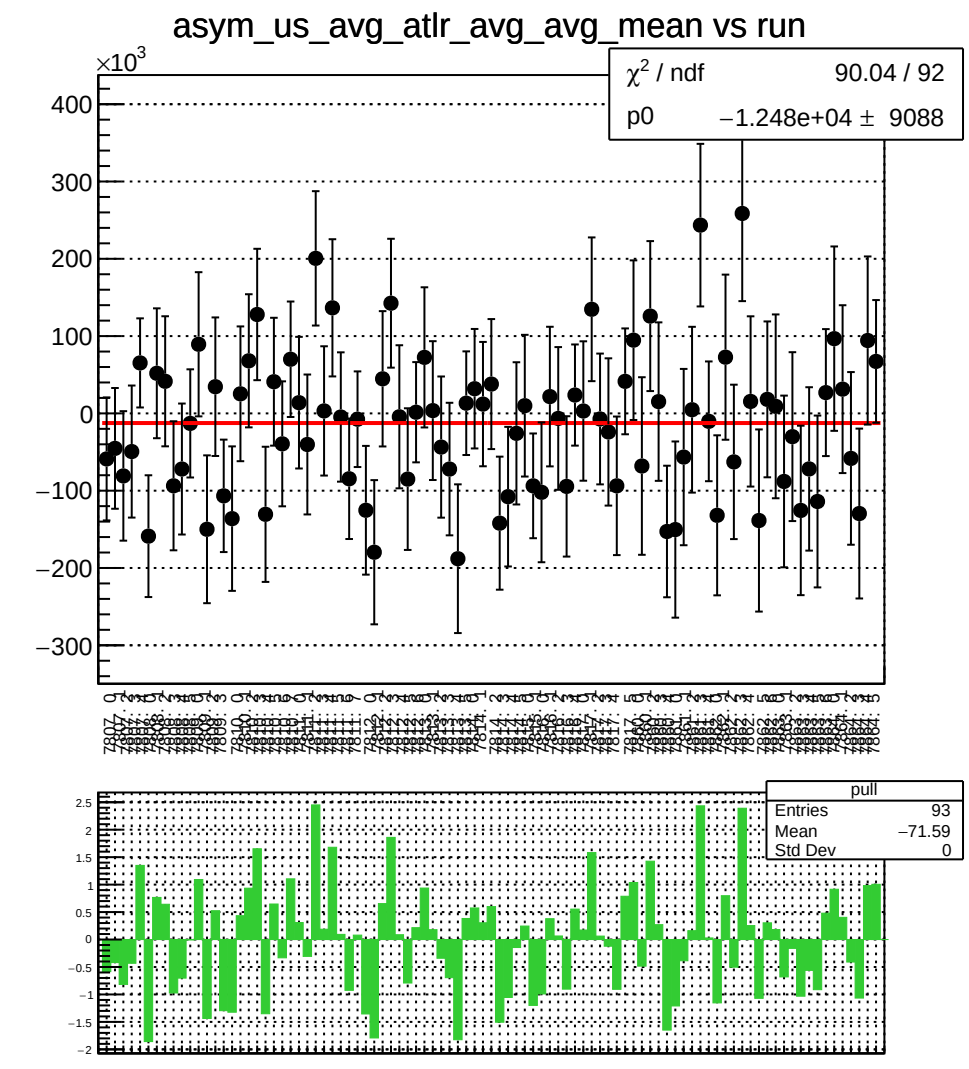

pull1D
Entries 93
Mean 0.0008644
Std Dev 1.042

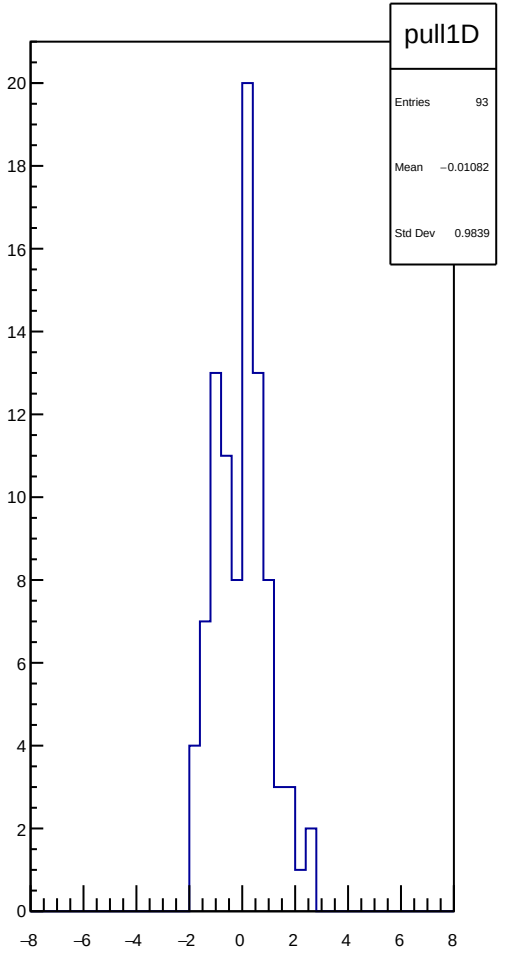

eigen_dit_asym_us_avg_atlr_avg_avg_rms vs run
χ^2 / ndf 161.1 / 92
p0 1845 ± 1.356
1920
1900
1880
1860
1840
1820
1800
1780

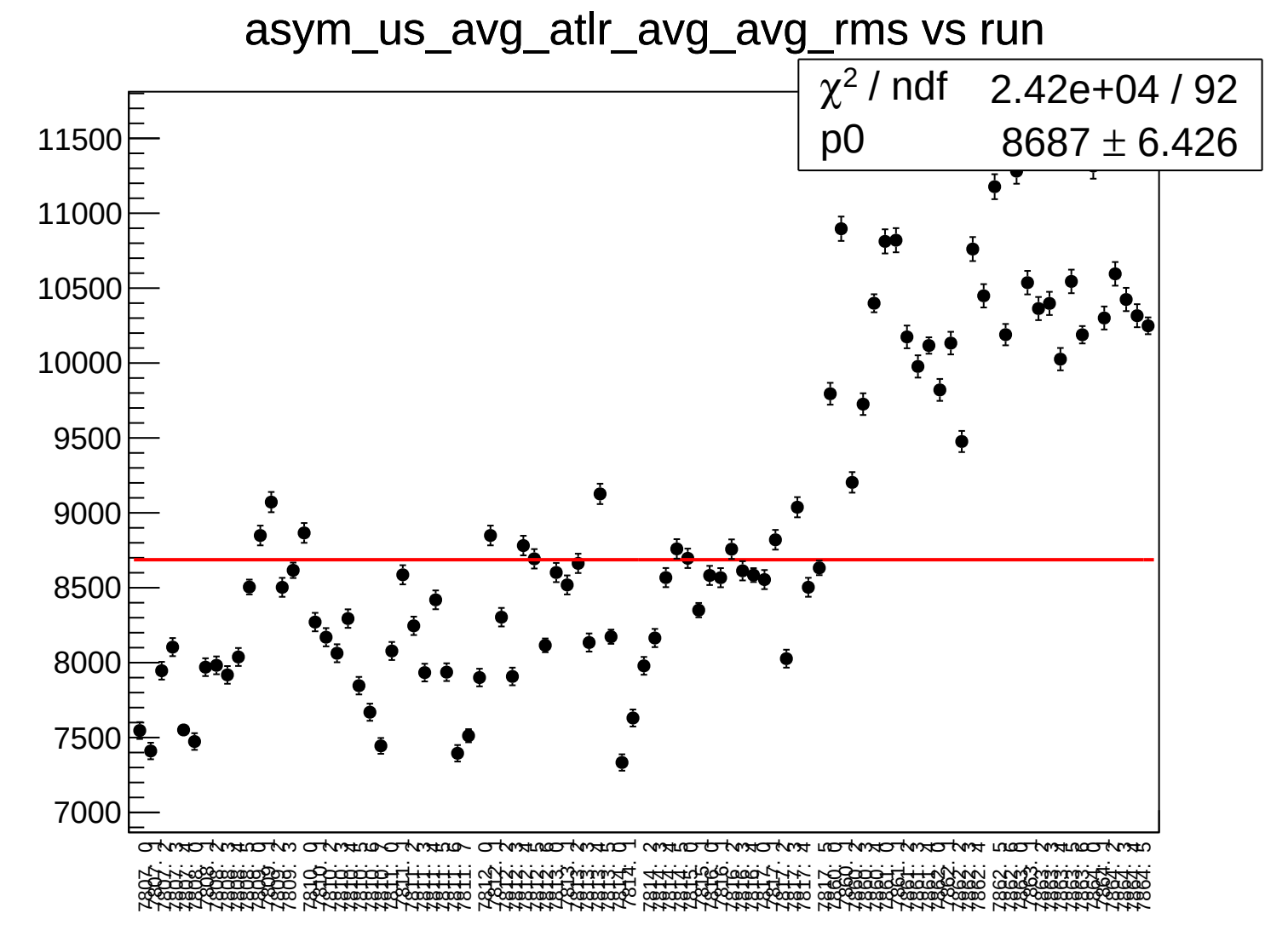

asym_us_avg_atlr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 84.03 / 92
p0 9009 ± 8767
pull
Entries 93
Mean −47.46
Std Dev 0

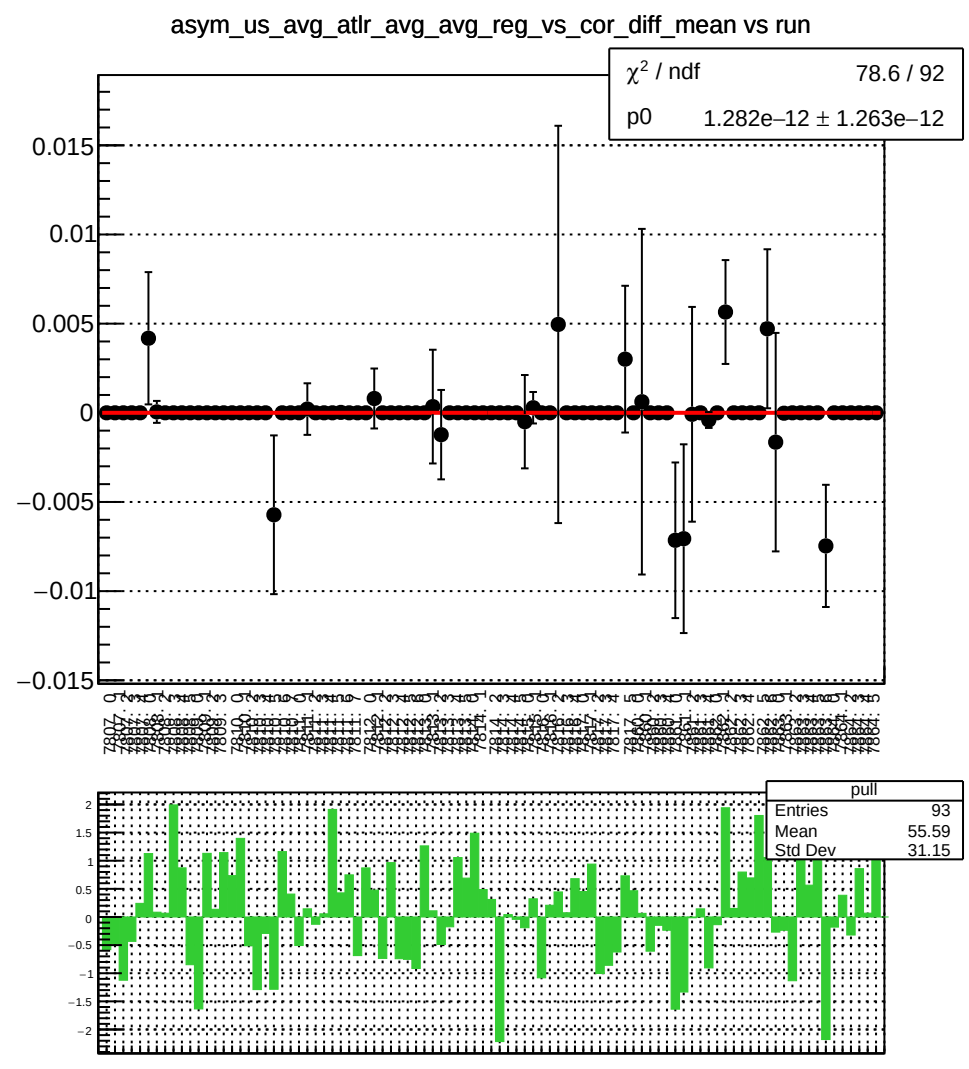

pull1D
Entries 93
Mean 0.01023
Std Dev 0.9505

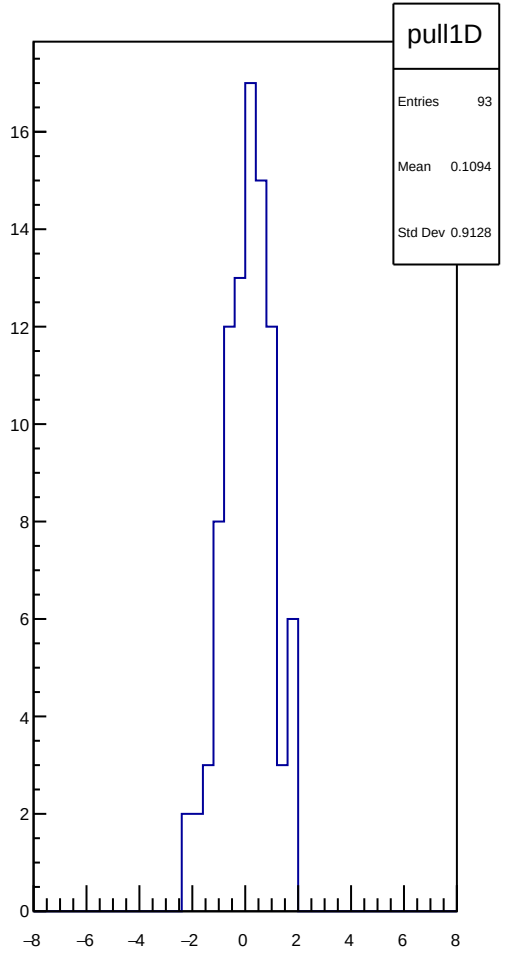

asym_us_avg_atlr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.737e+04 / 92
p0 8373 ± 6.2
11000
10000
9000
8000
7000

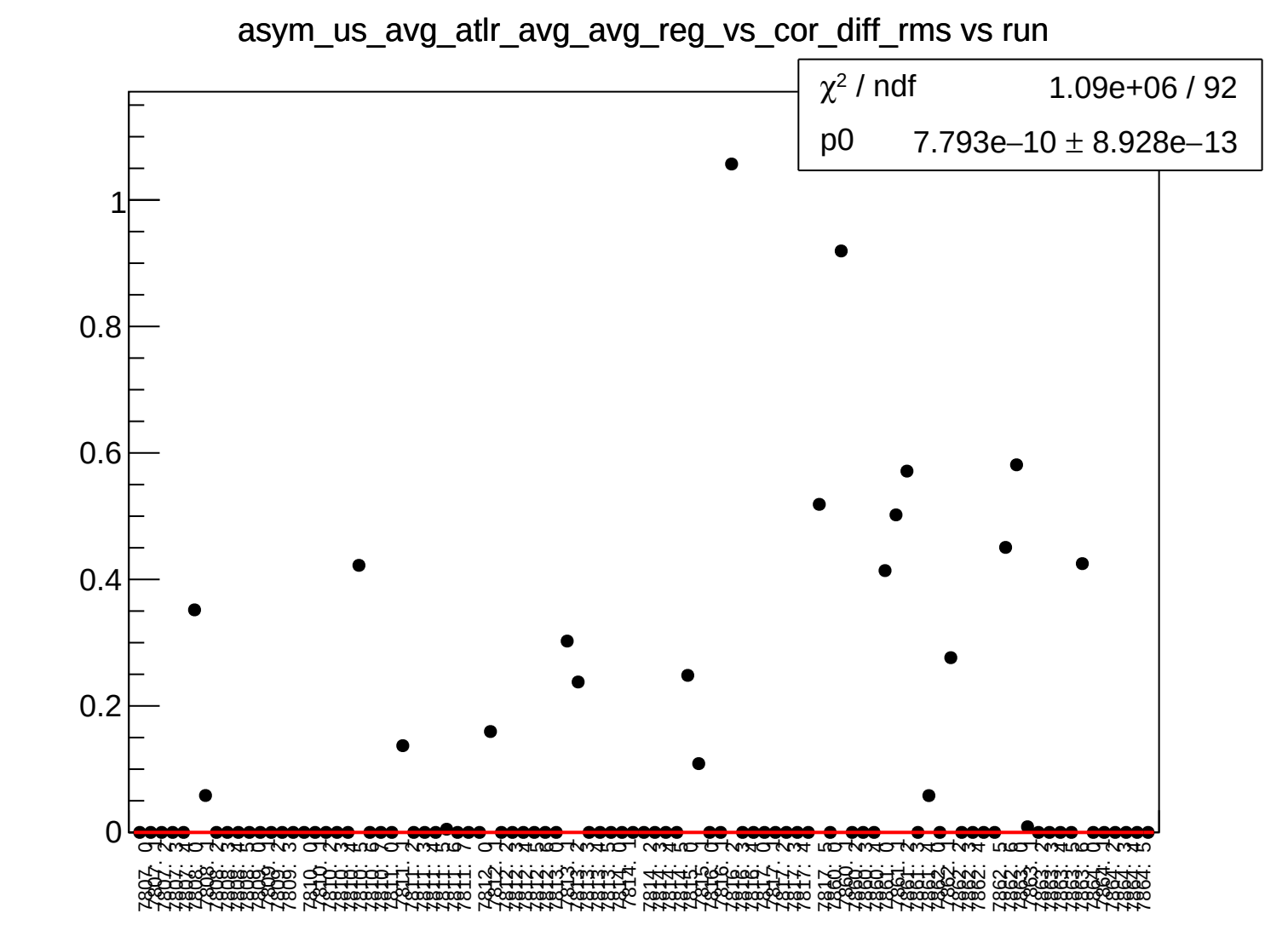

asym_us_avg_atlr_avg_avg_mean vs run
×10^3
χ² / ndf 90.04 / 92
p0 −1.248e+04 ± 9088
pull
Entries 93
Mean −71.59
Std Dev 0

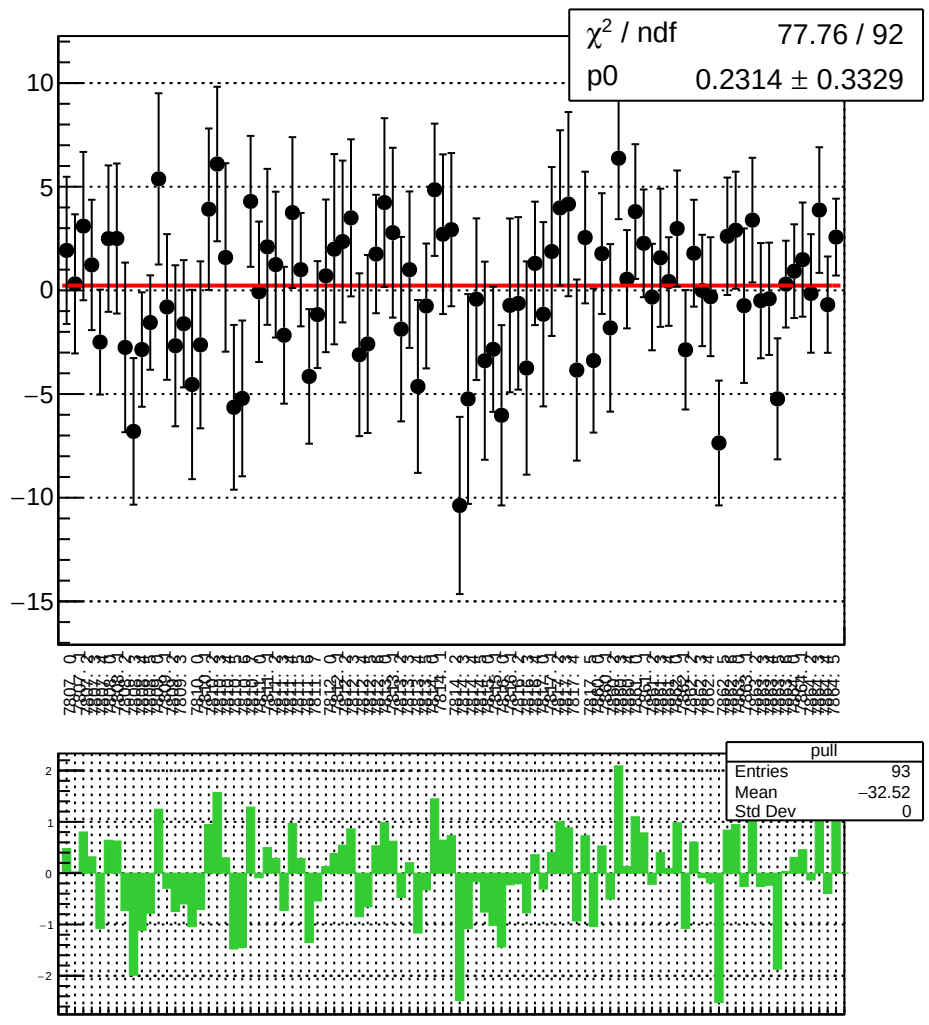

pull1D
Entries 93
Mean −0.01082
Std Dev 0.9839

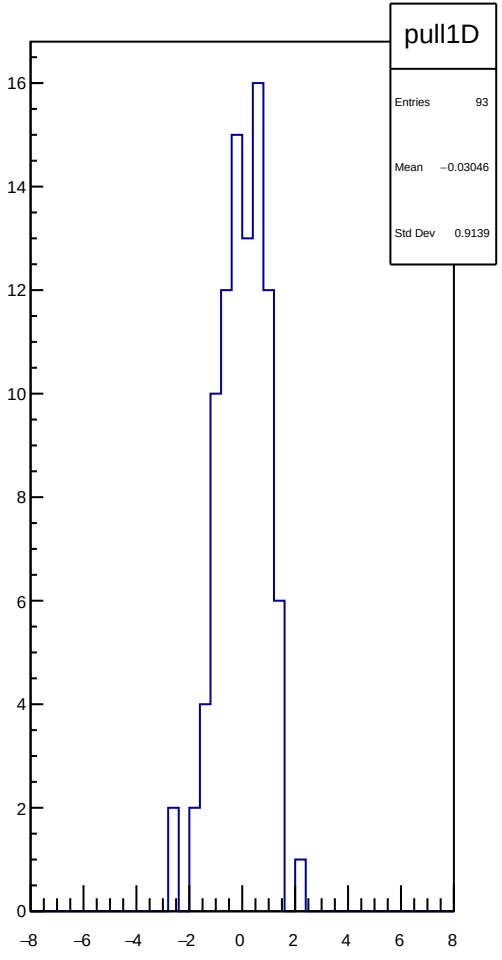

asym_us_avg_atlr_avg_avg_rms vs run
χ^2 / ndf 2.42e+04 / 92
p0 8687 ± 6.426
11500
11000
10500
10000
9500
9000
8500
8000
7500
7000

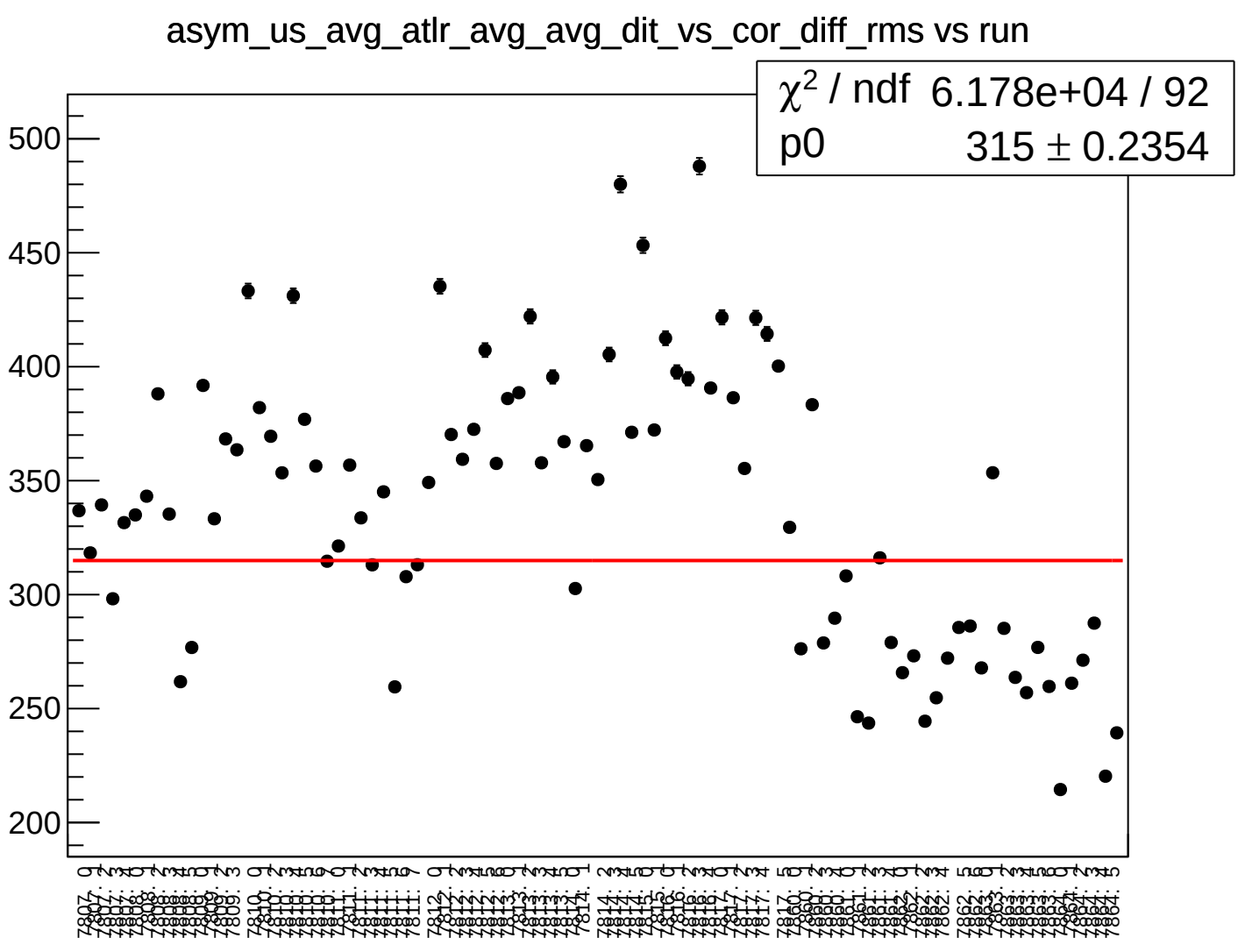

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 78.6 / 92
p0 1.282e−12 ± 1.263e−12
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 93
Mean 55.59
Std Dev 31.15
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

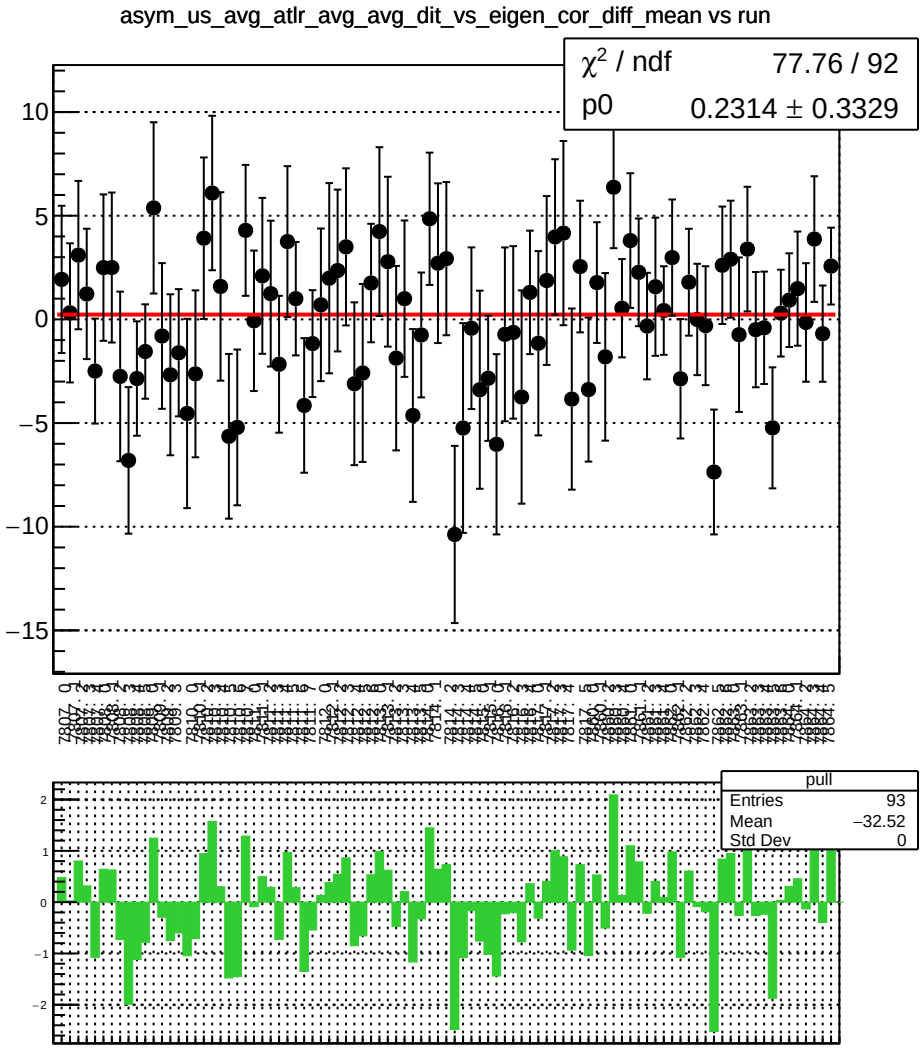

pull1D
Entries 93
Mean 0.1094
Std Dev 0.9128
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

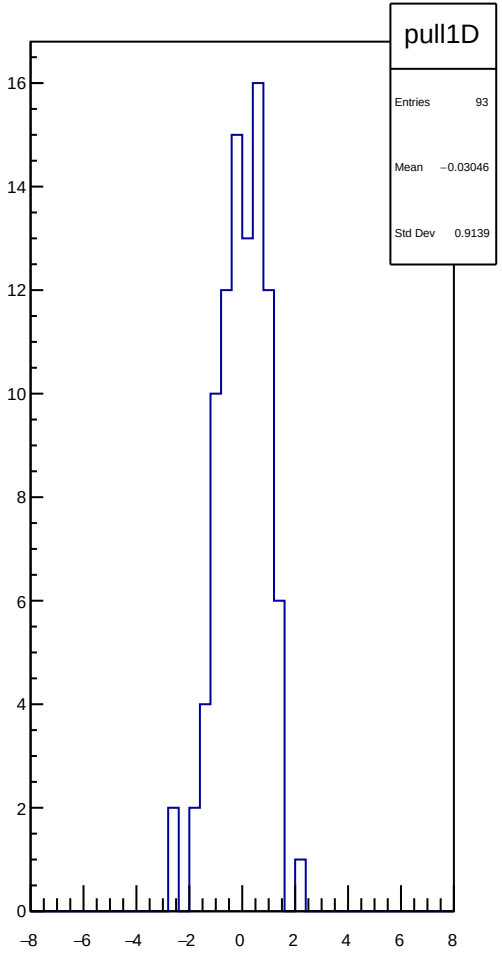

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.09e+06 / 92
p0 7.793e−10 ± 8.928e−13
1
0.8
0.6
0.4
0.2
0

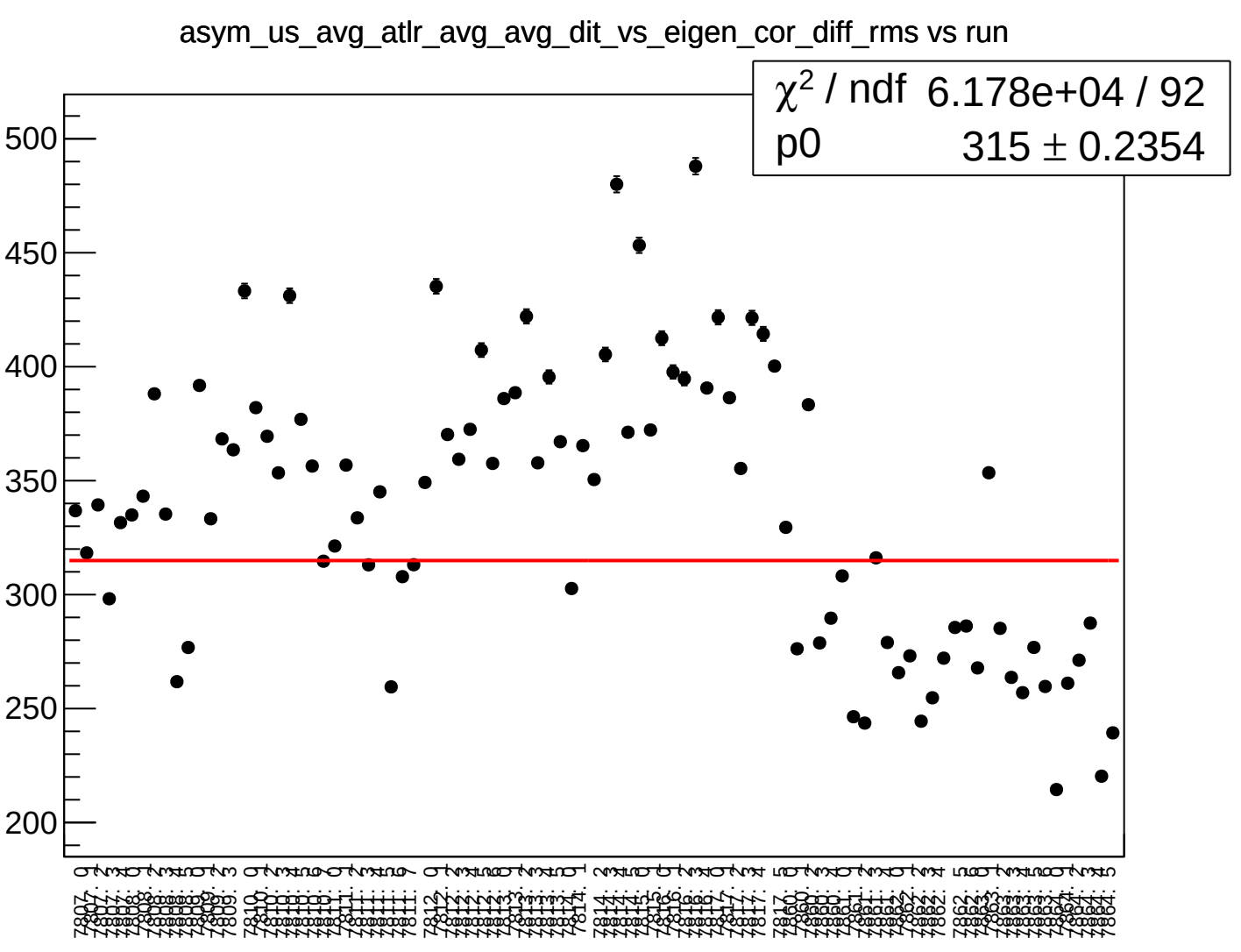

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 77.76 / 92
p0 0.2314 ± 0.3329
pull
Entries 93
Mean −32.52
Std Dev 0

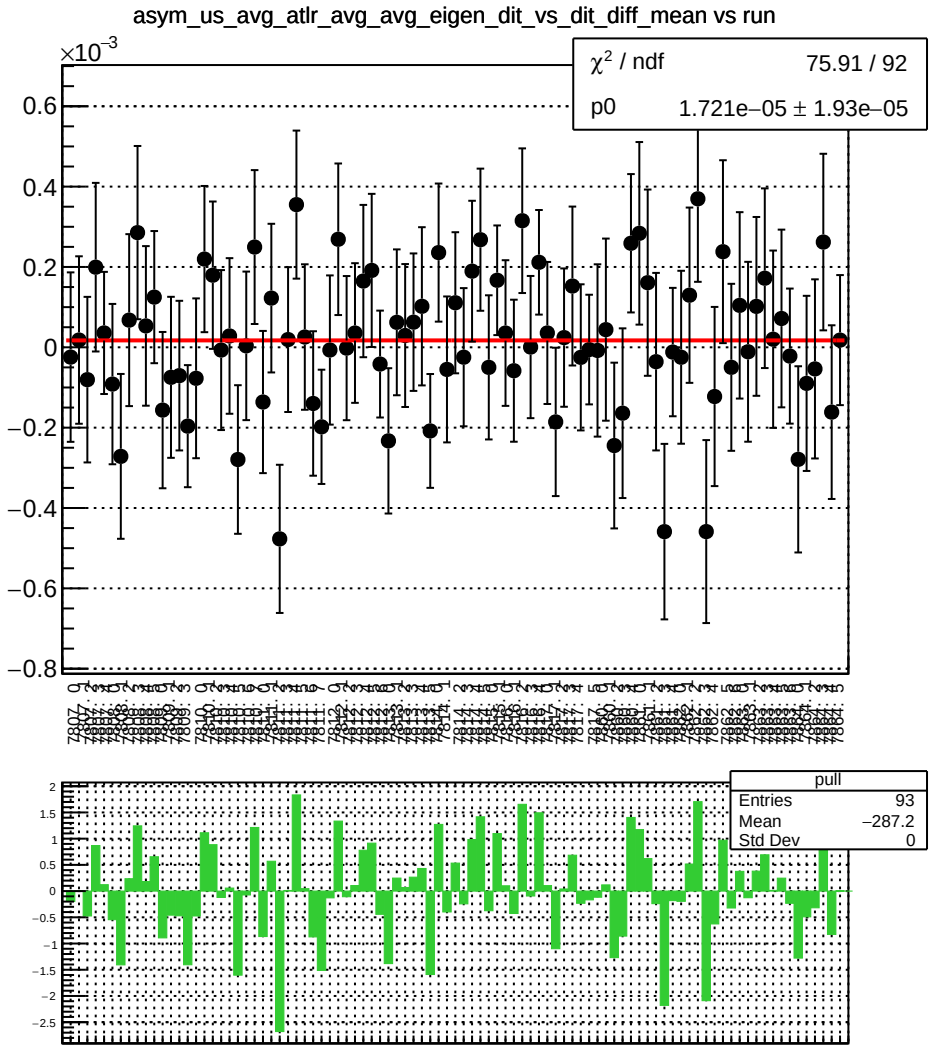

pull1D
Entries 93
Mean −0.03046
Std Dev 0.9139

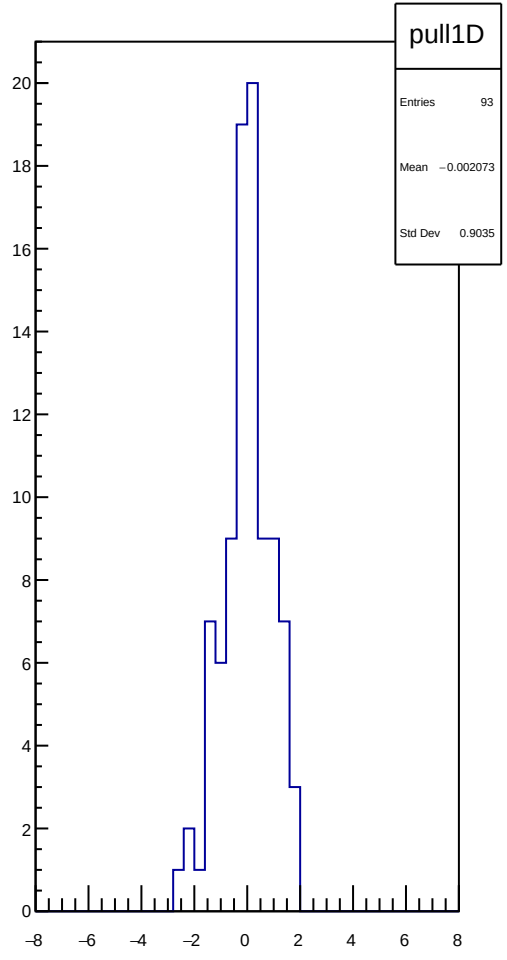

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.178e+04 / 92
p0 315 ± 0.2354
500
450
400
350
300
250
200

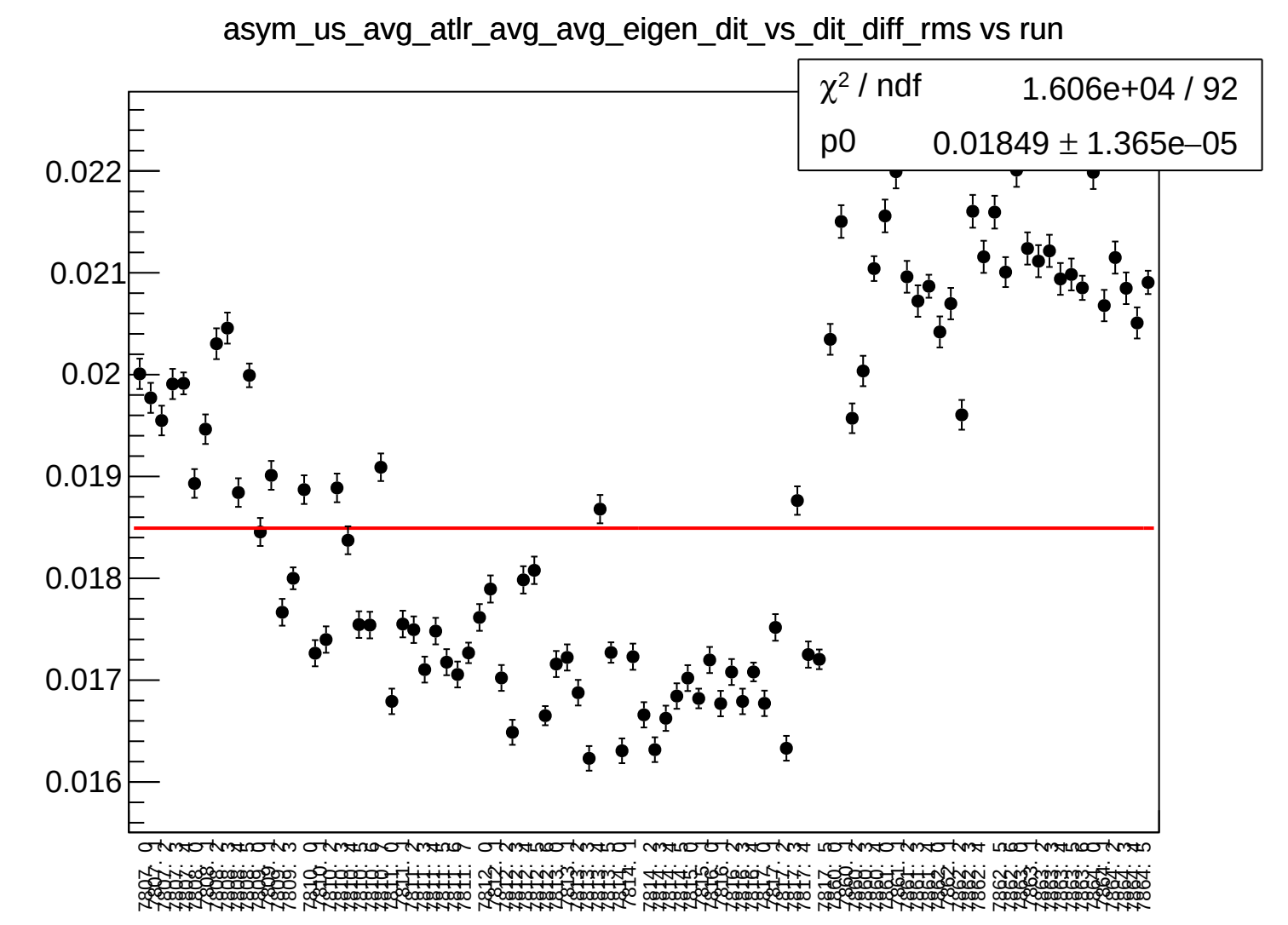

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.76 / 92
p0 0.2314 ± 0.3329
pull
Entries 93
Mean −32.52
Std Dev 0

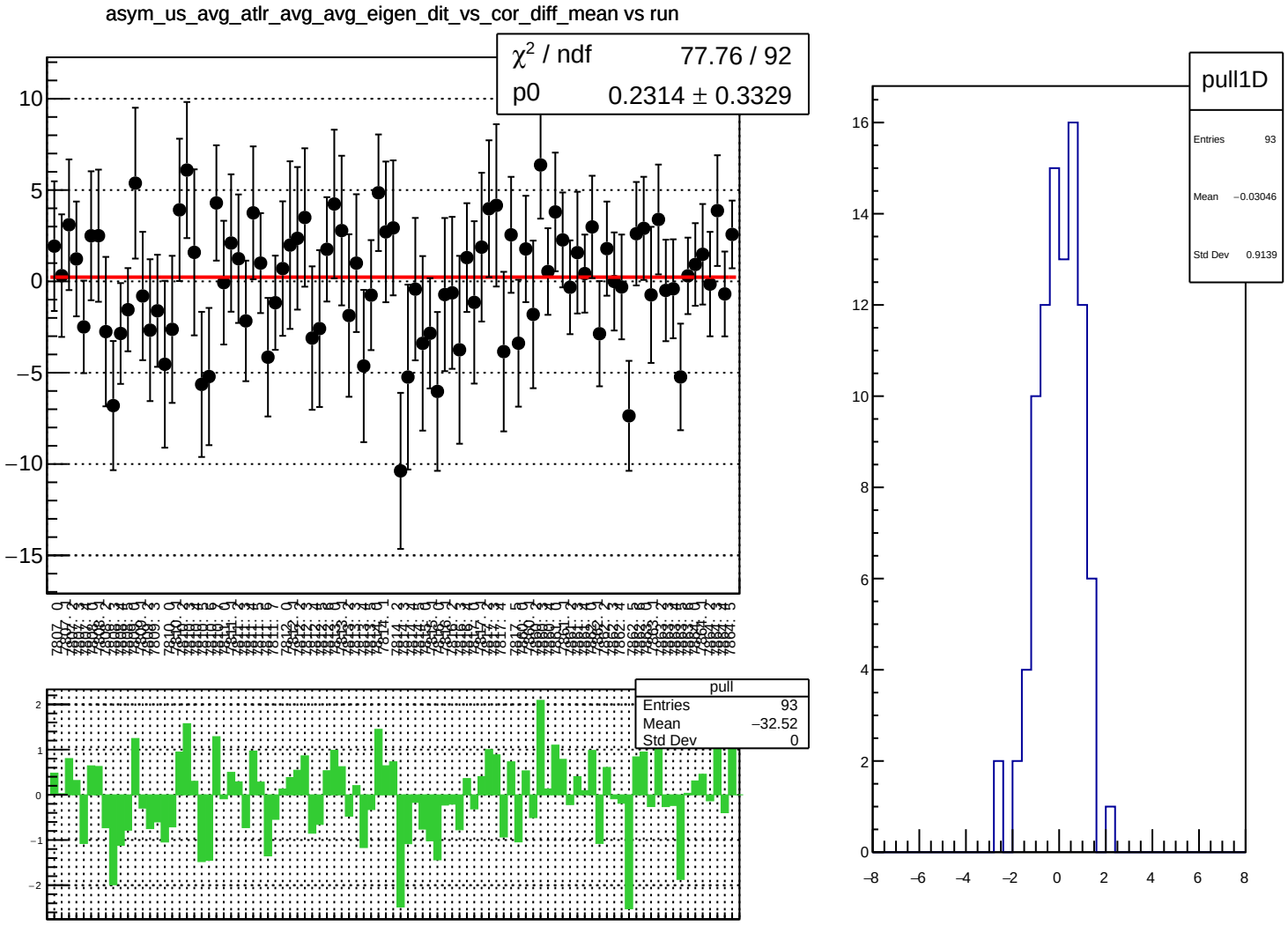

pull1D
Entries 93
Mean −0.03046
Std Dev 0.9139

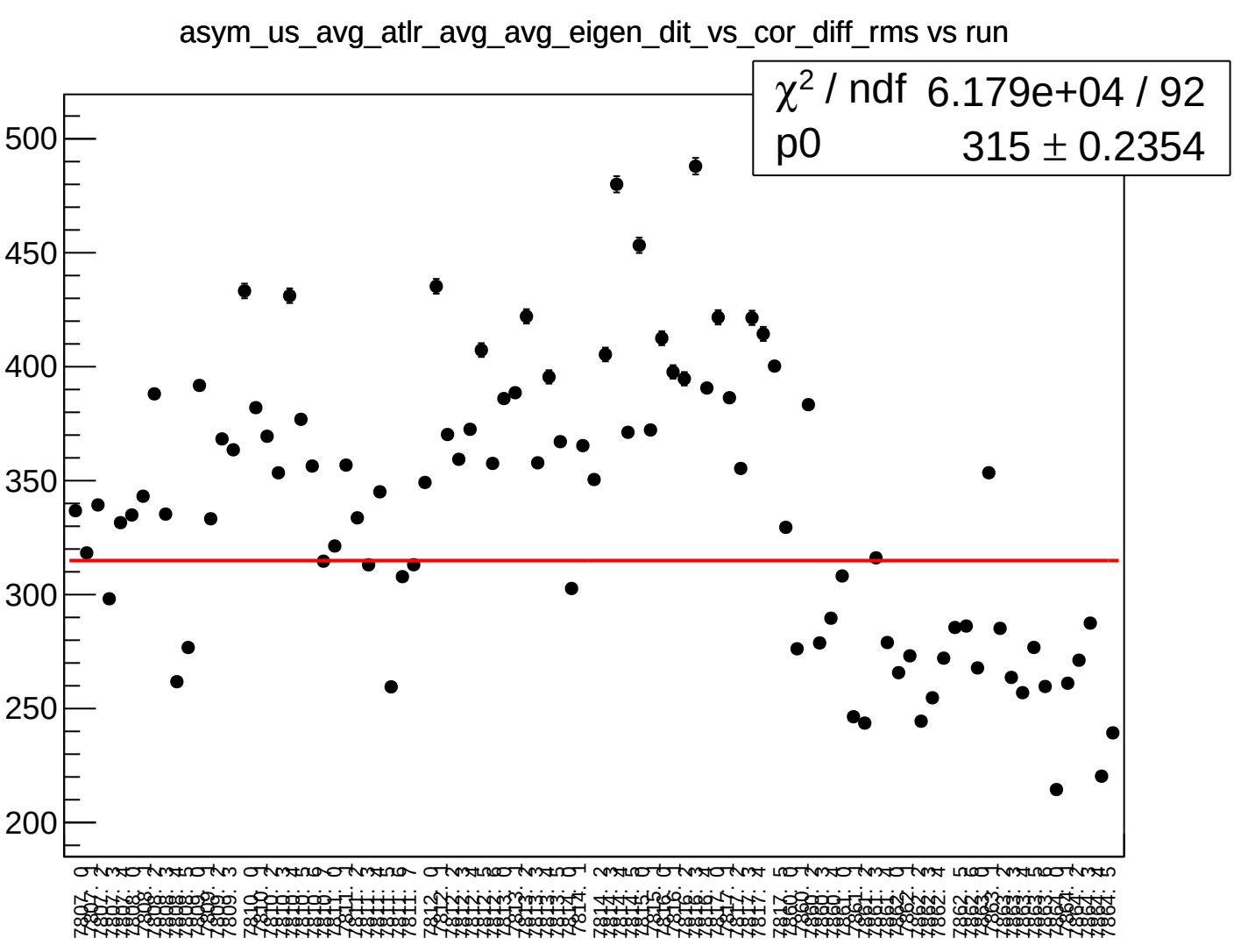

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.178e+04 / 92
p0 315 ± 0.2354
500
450
400
350
300
250
200

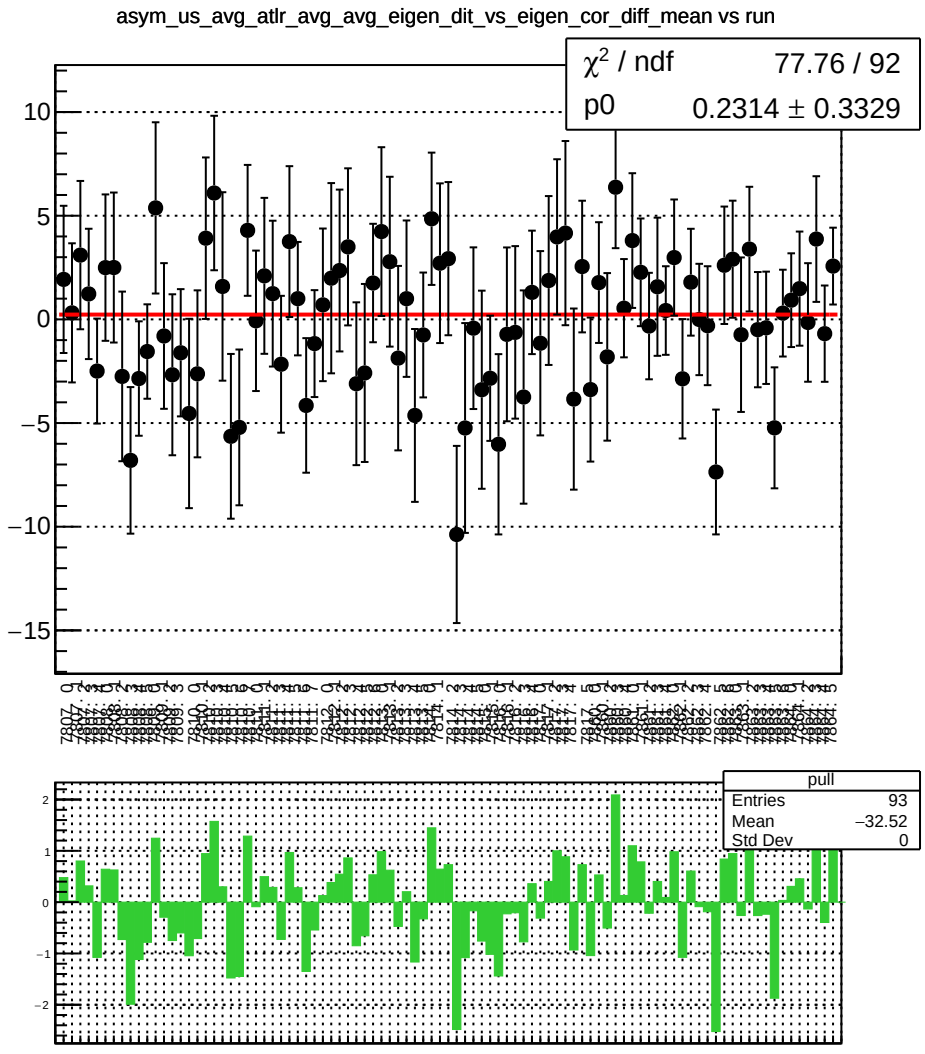

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 75.91 / 92
p0 1.721e−05 ± 1.93e−05
pull
Entries 93
Mean −287.2
Std Dev 0

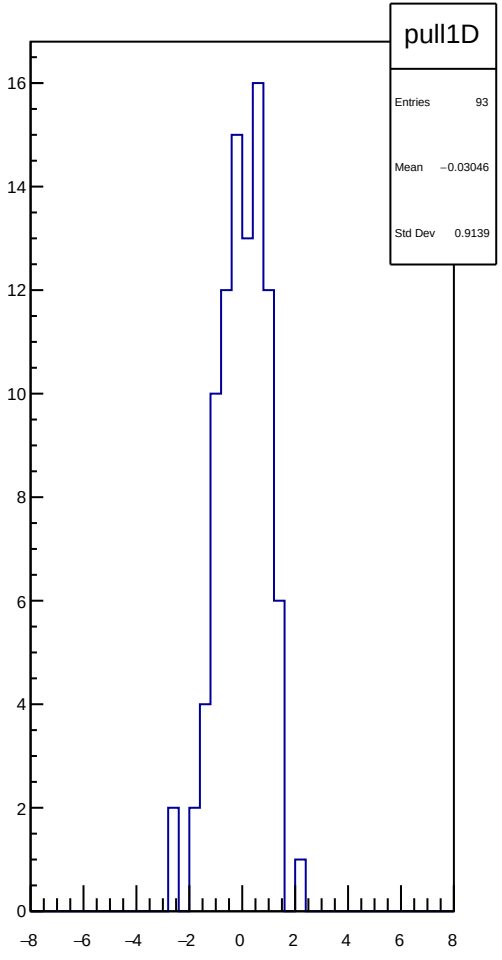

pull1D
Entries 93
Mean −0.002073
Std Dev 0.9035

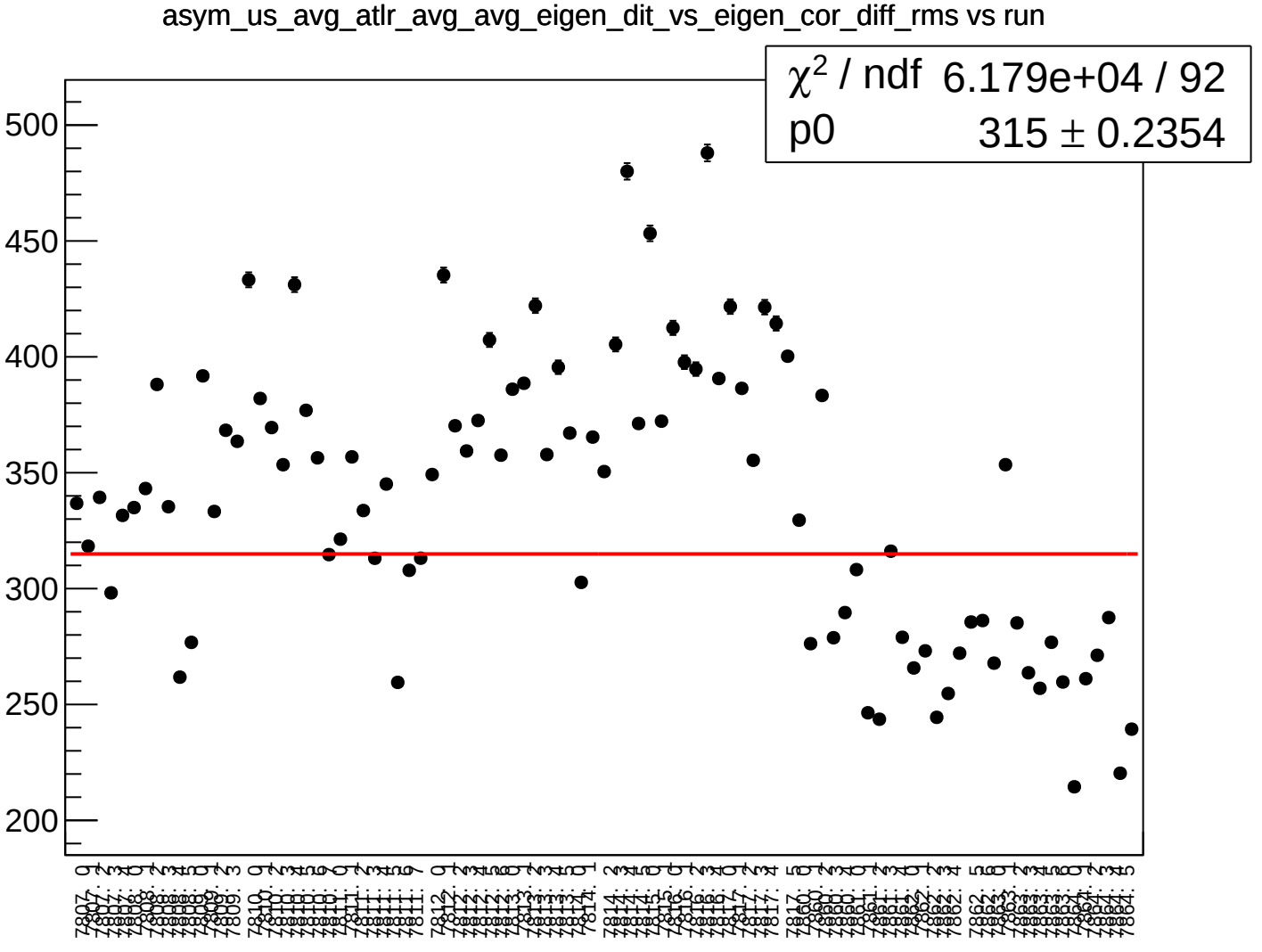

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.606e+04 / 92
p0 0.01849 ± 1.365e−05
0.022
0.021
0.02
0.019
0.018
0.017
0.016

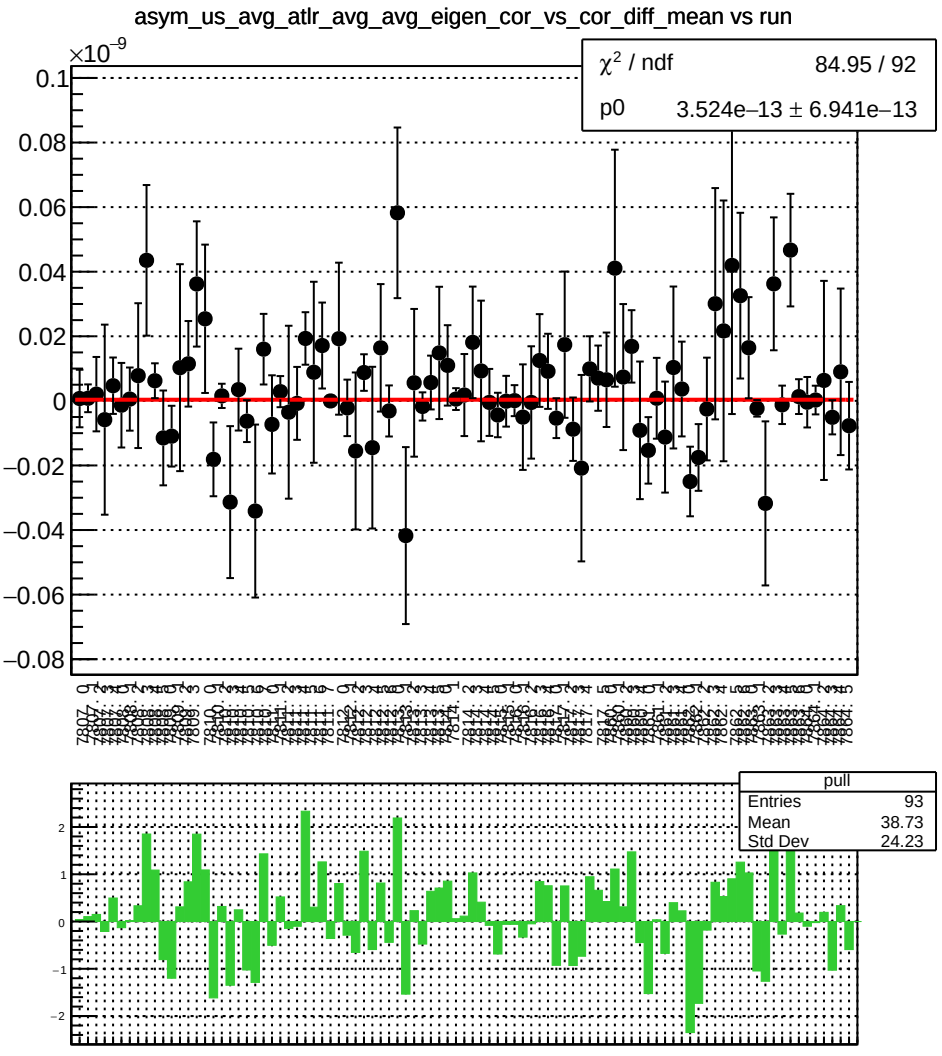

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.76 / 92
p0 0.2314 ± 0.3329
pull
Entries 93
Mean −32.52
Std Dev 0
pull1D
Entries 93
Mean −0.03046
Std Dev 0.9139

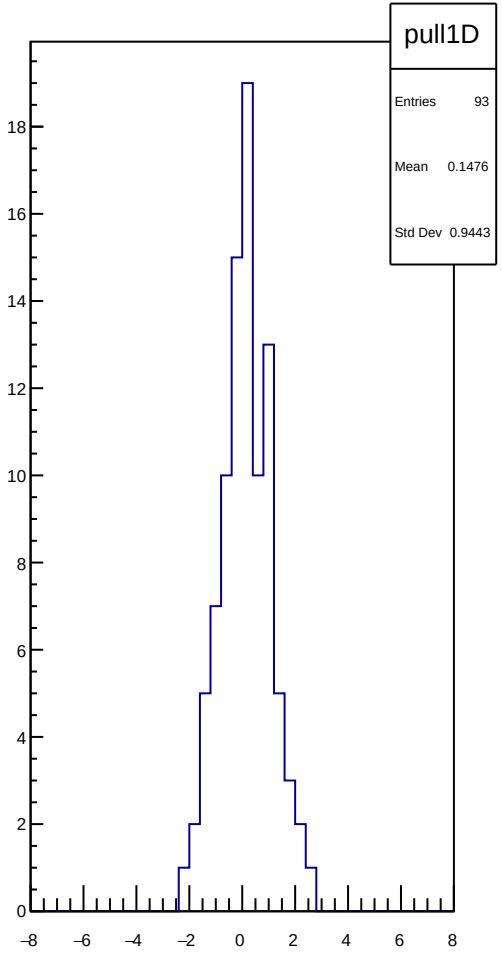

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.179e+04 / 92
p0 315 ± 0.2354
500
450
400
350
300
250
200

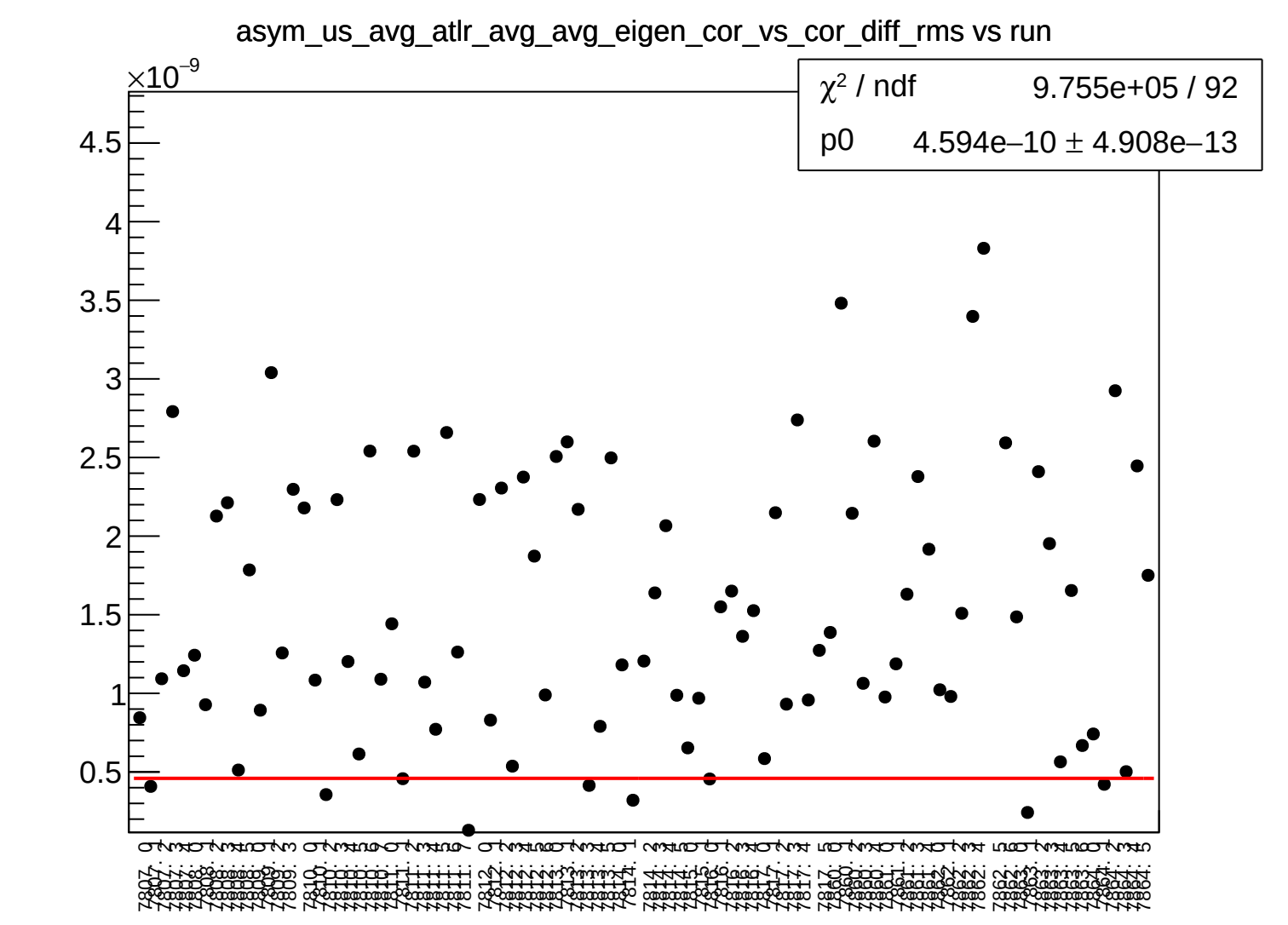

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.76 / 92
p0 0.2314 ± 0.3329
pull
Entries 93
Mean −32.52
Std Dev 0

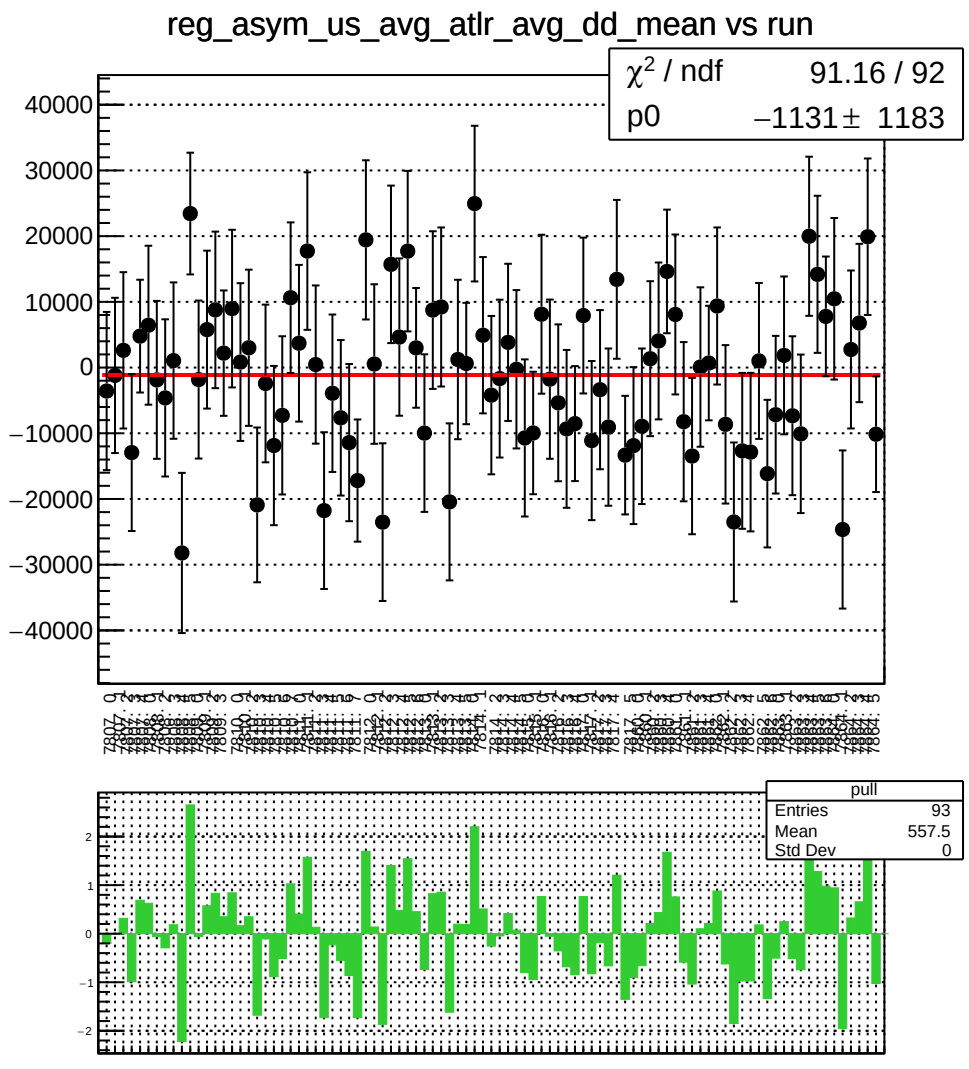

pull1D
Entries 93
Mean −0.03046
Std Dev 0.9139

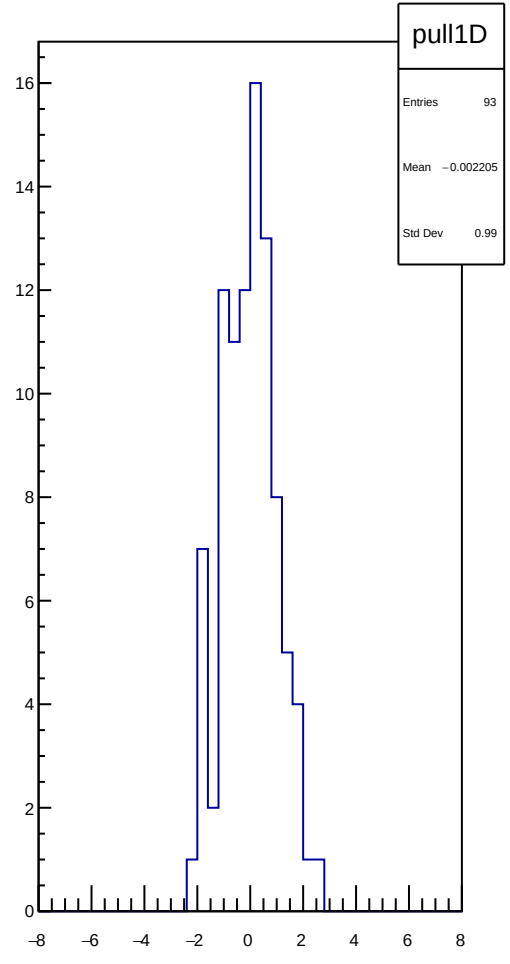

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.179e+04 / 92
p0 315 ± 0.2354
500
450
400
350
300
250
200

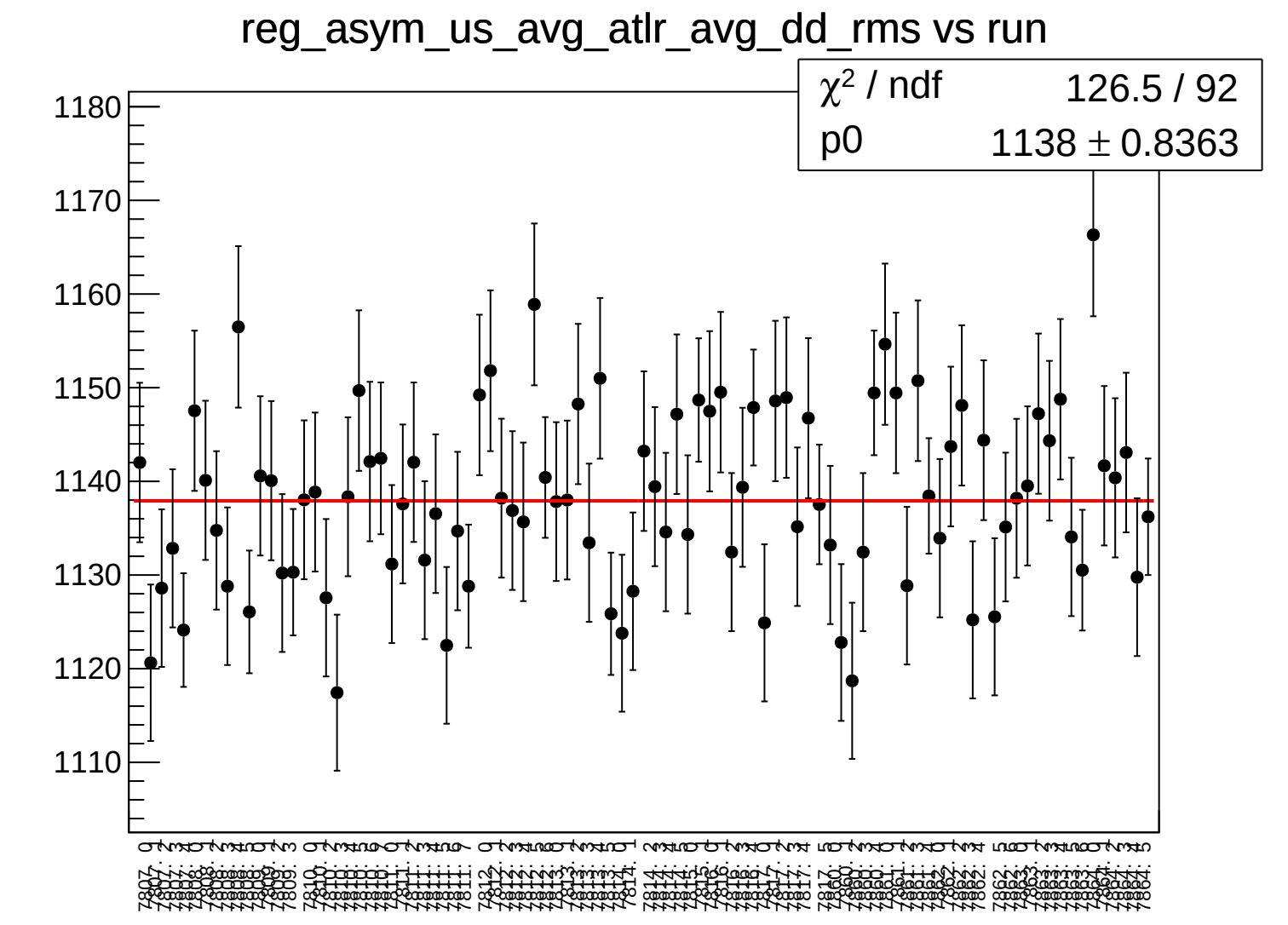

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 84.95 / 92
p0 3.524e−13 ± 6.941e−13
pull
Entries 93
Mean 38.73
Std Dev 24.23

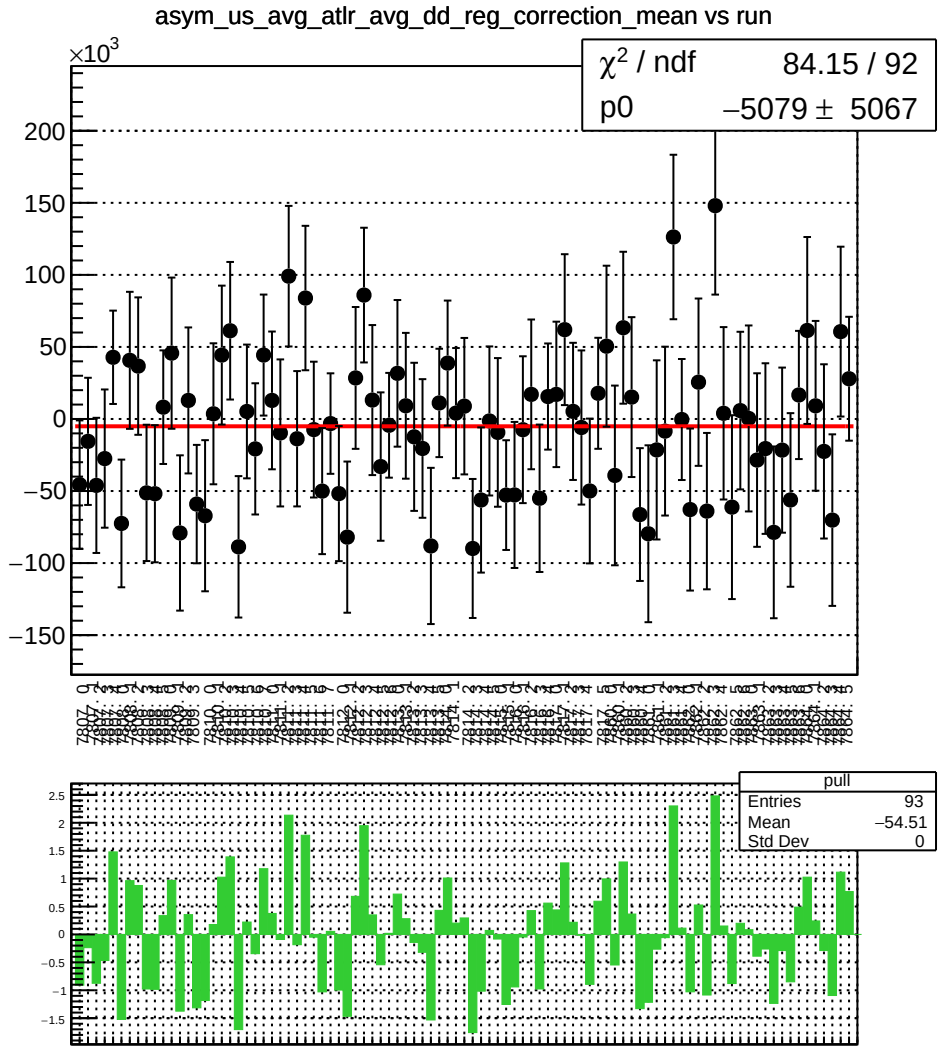

pull1D
Entries 93
Mean 0.1476
Std Dev 0.9443

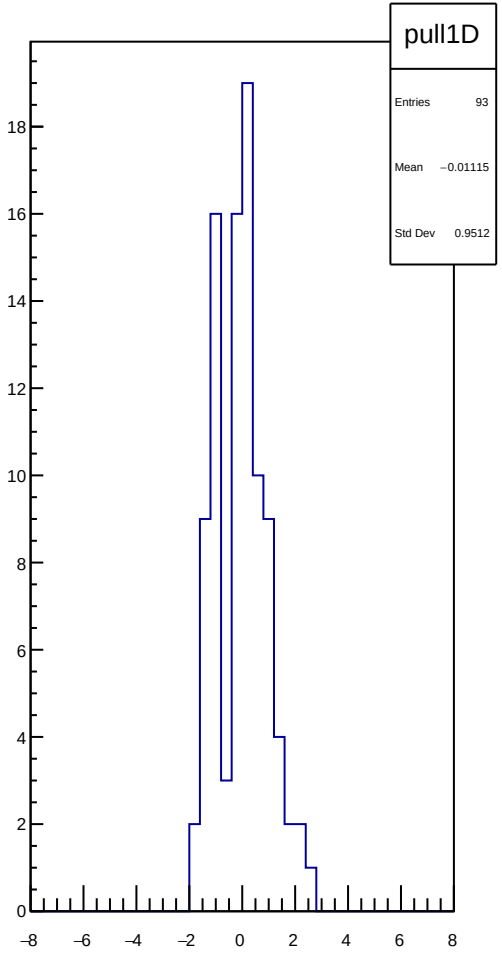

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.755e+05 / 92
p0 4.594e−10 ± 4.908e−13
4.5
4
3.5
3
2.5
2
1.5
1
0.5

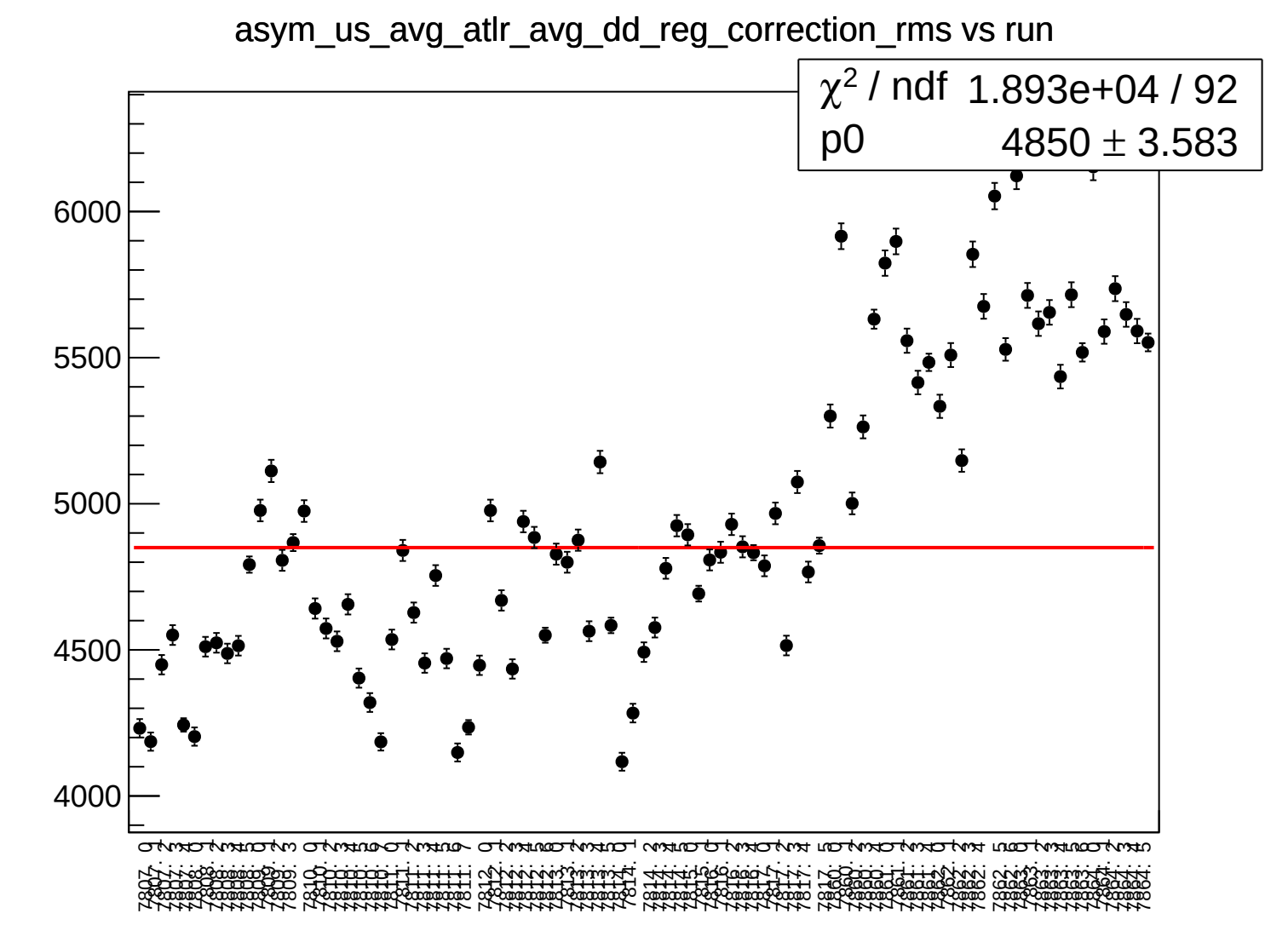

reg_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 91.16 / 92
p0 −1131 ± 1183
pull
Entries 93
Mean 557.5
Std Dev 0

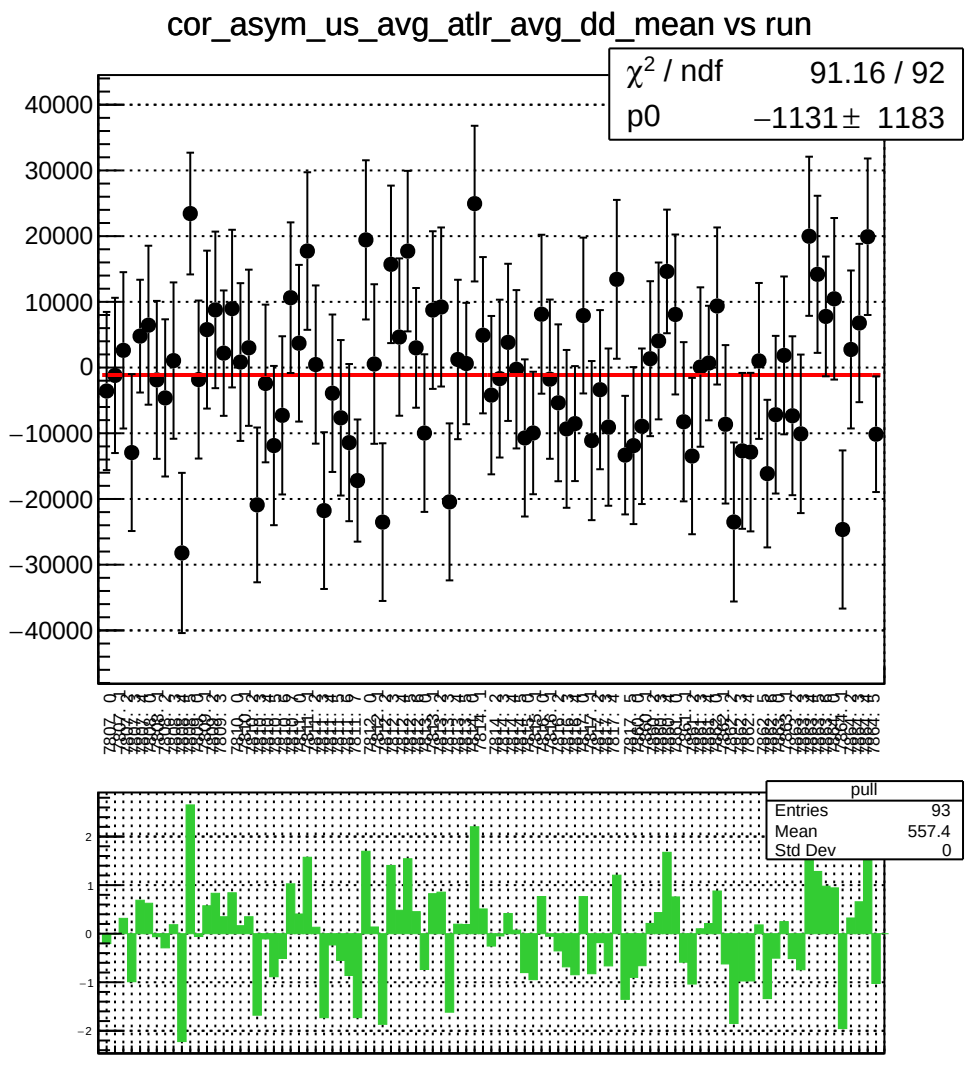

pull1D
Entries 93
Mean −0.002205
Std Dev 0.99

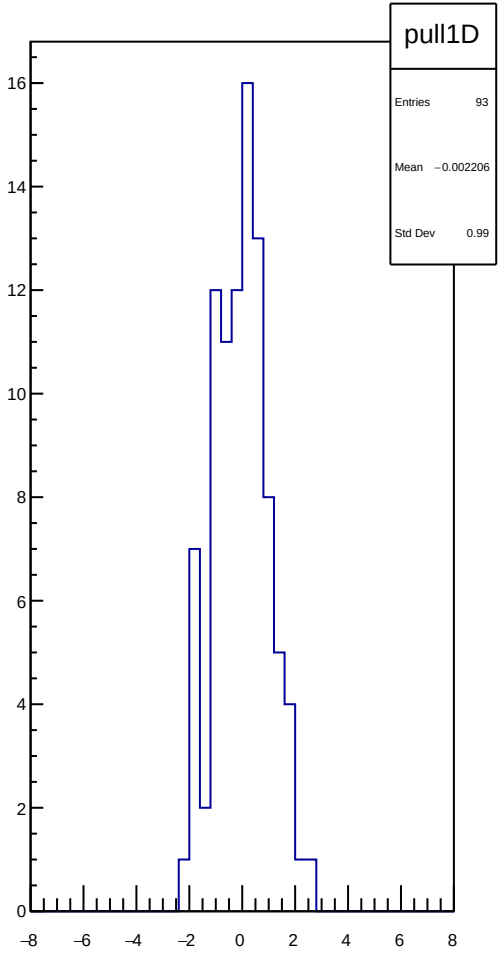

reg_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 126.5 / 92
p0 1138 ± 0.8363
1180
1170
1160
1150
1140
1130
1120
1110

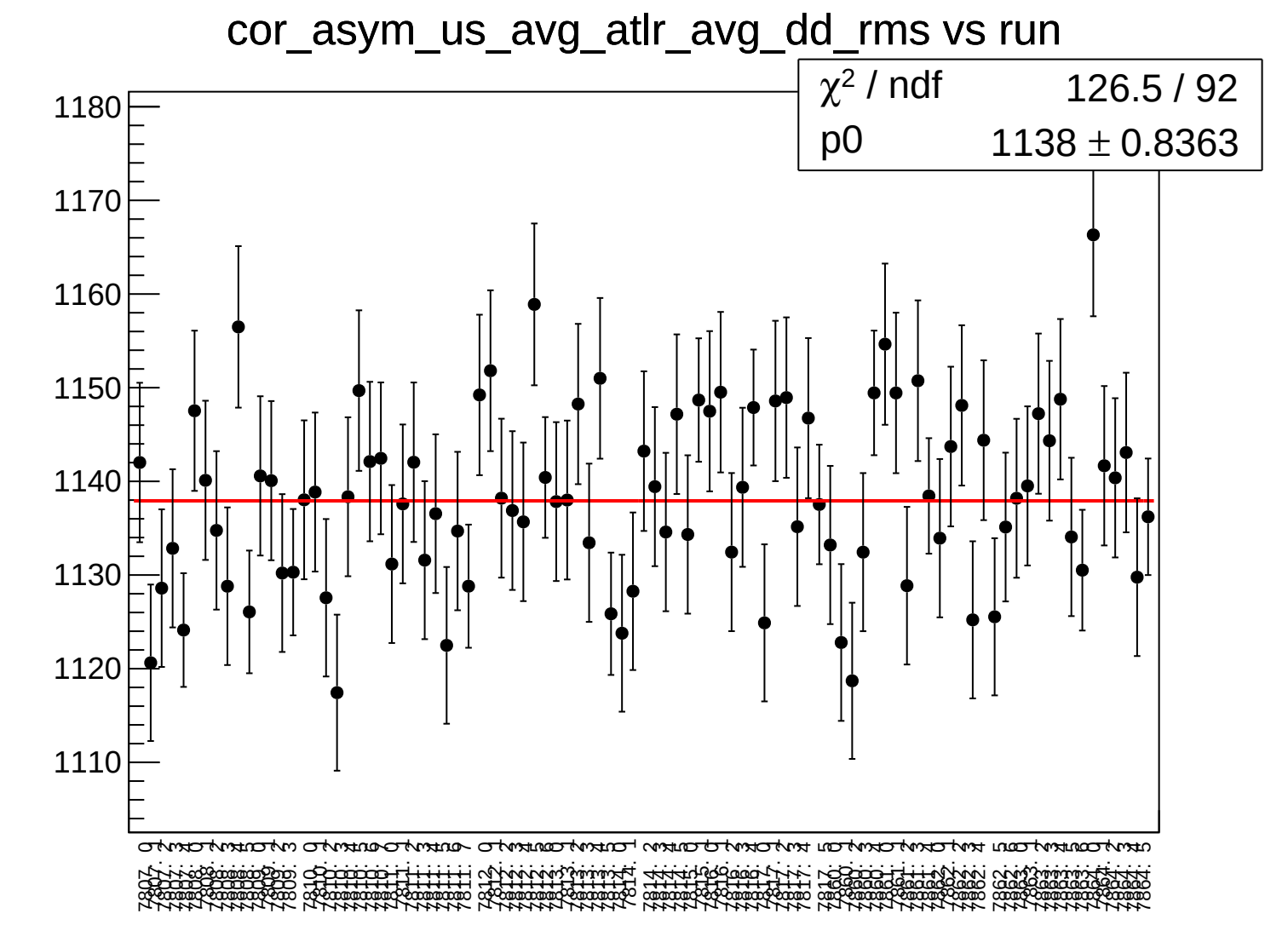

asym_us_avg_atlr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 84.15 / 92
p0 −5079 ± 5067
pull
Entries 93
Mean −54.51
Std Dev 0

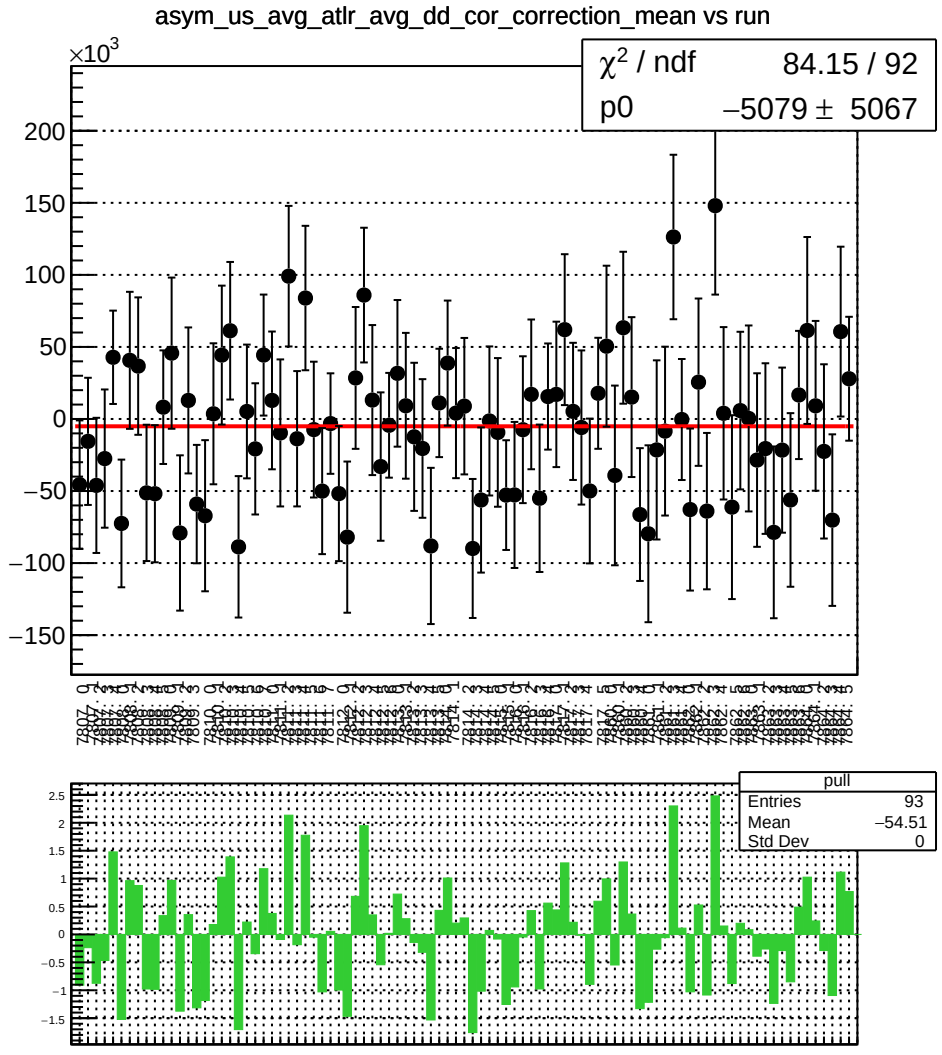

pull1D
Entries 93
Mean −0.01115
Std Dev 0.9512

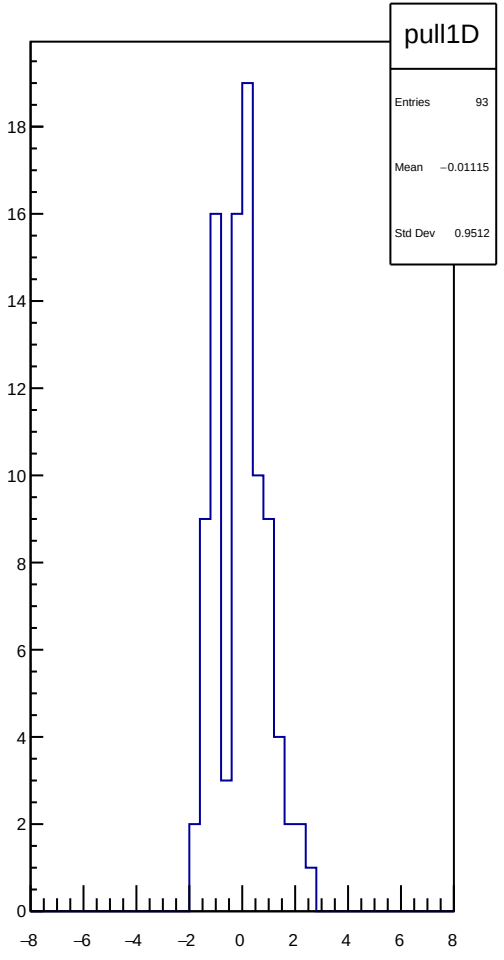

asym_us_avg_atlr_avg_dd_reg_correction_rms vs run
χ² / ndf 1.893e+04 / 92
p0 4850 ± 3.583
6000
5500
5000
4500
4000

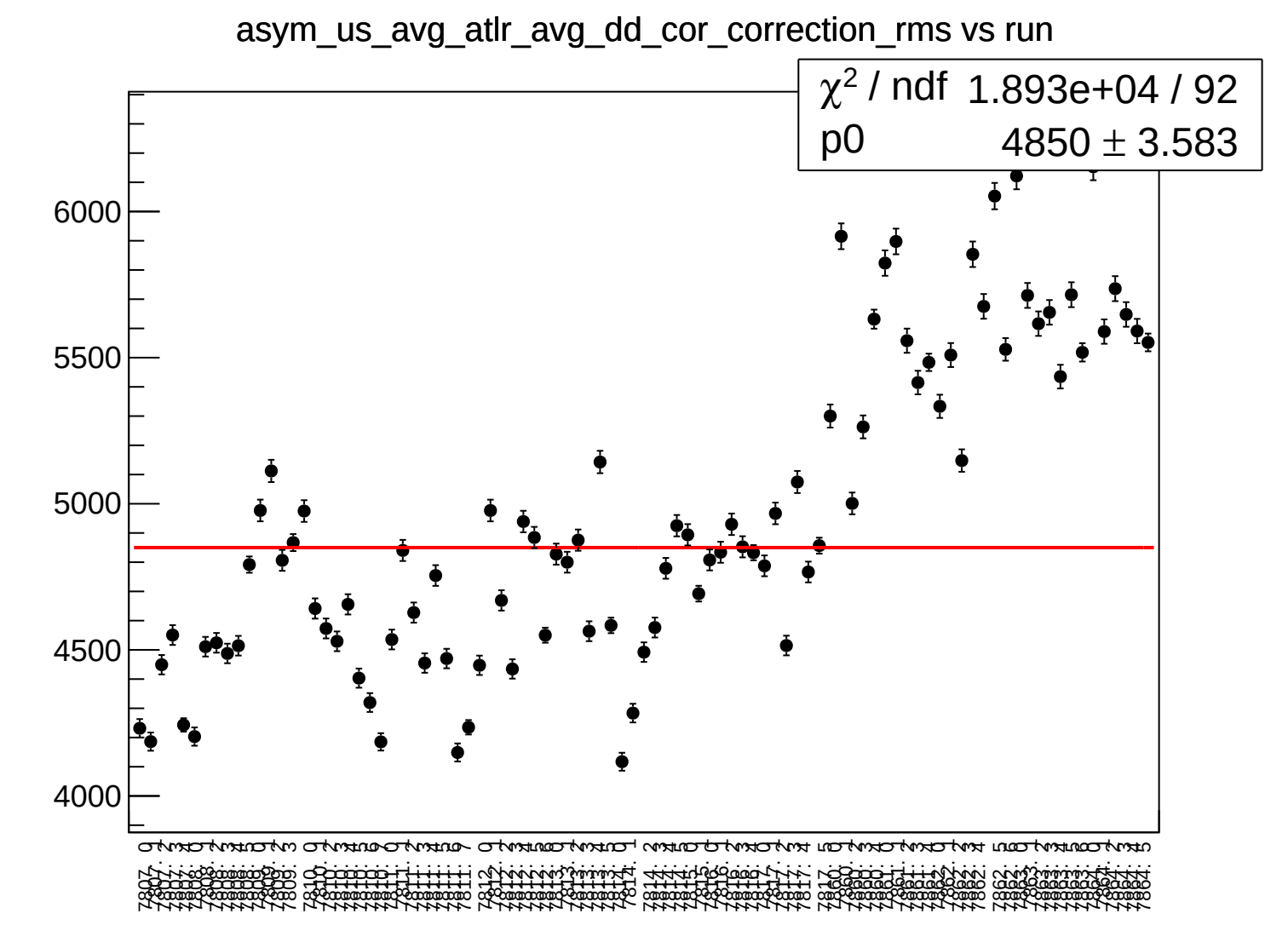

cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 91.16 / 92
p0 −1131 ± 1183
pull
Entries 93
Mean 557.4
Std Dev 0

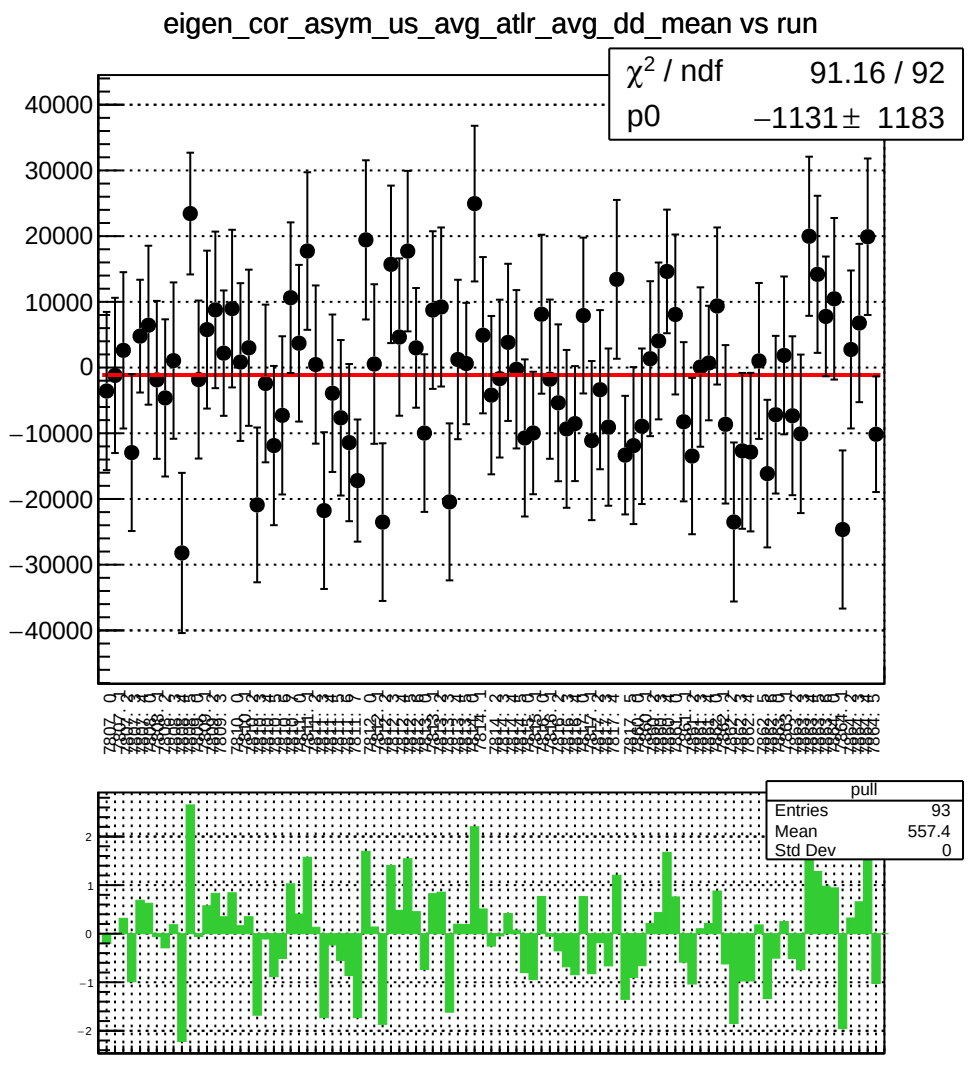

pull1D
Entries 93
Mean −0.002206
Std Dev 0.99

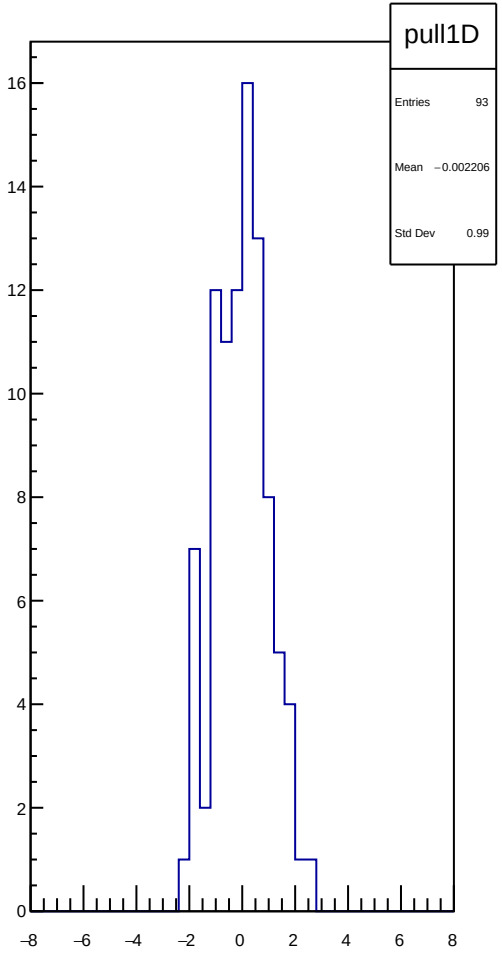

cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 126.5 / 92
p0 1138 ± 0.8363
1180
1170
1160
1150
1140
1130
1120
1110

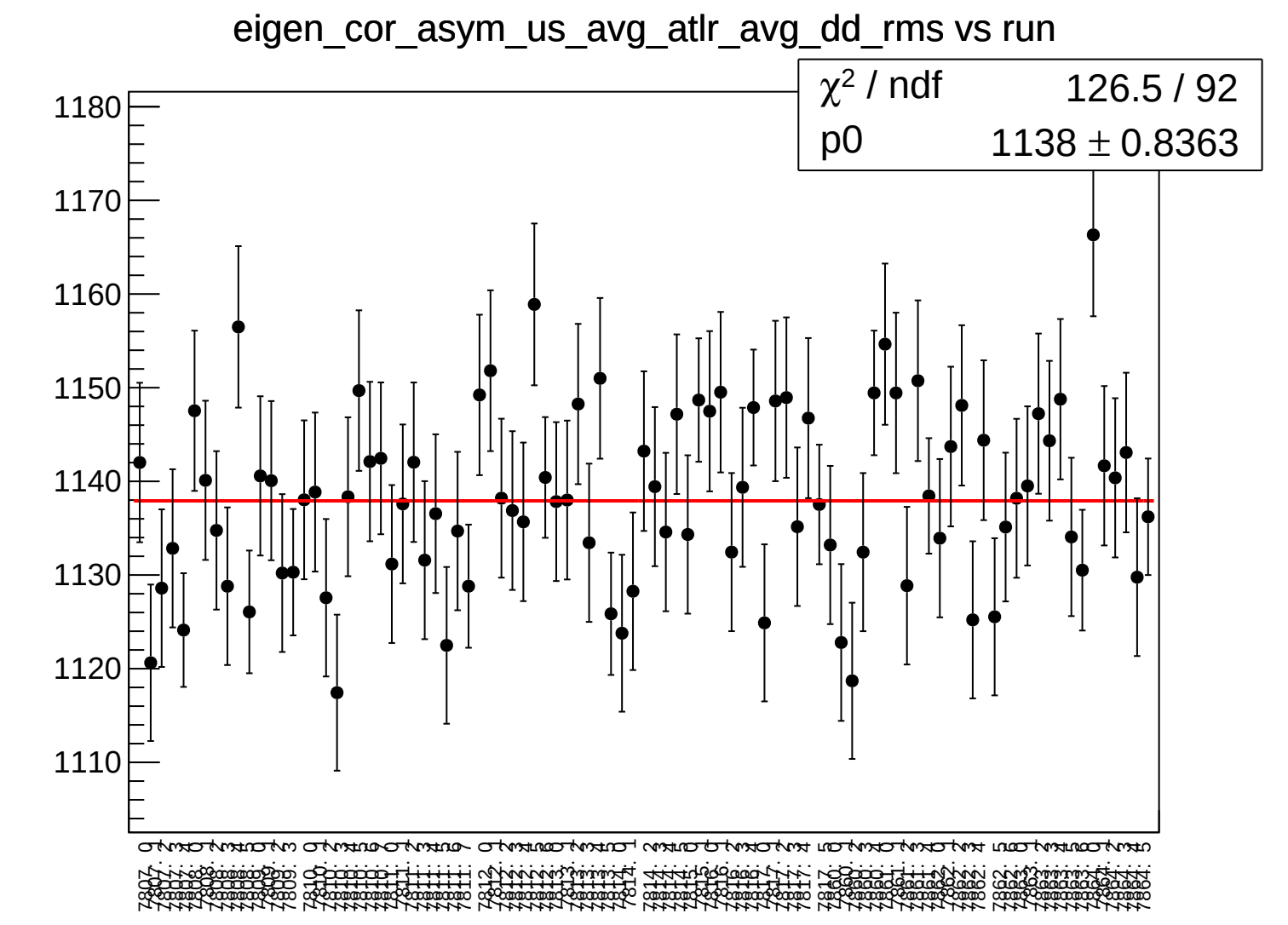

asym_us_avg_atlr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 84.15 / 92
p0 −5079 ± 5067
200
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean −54.51
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

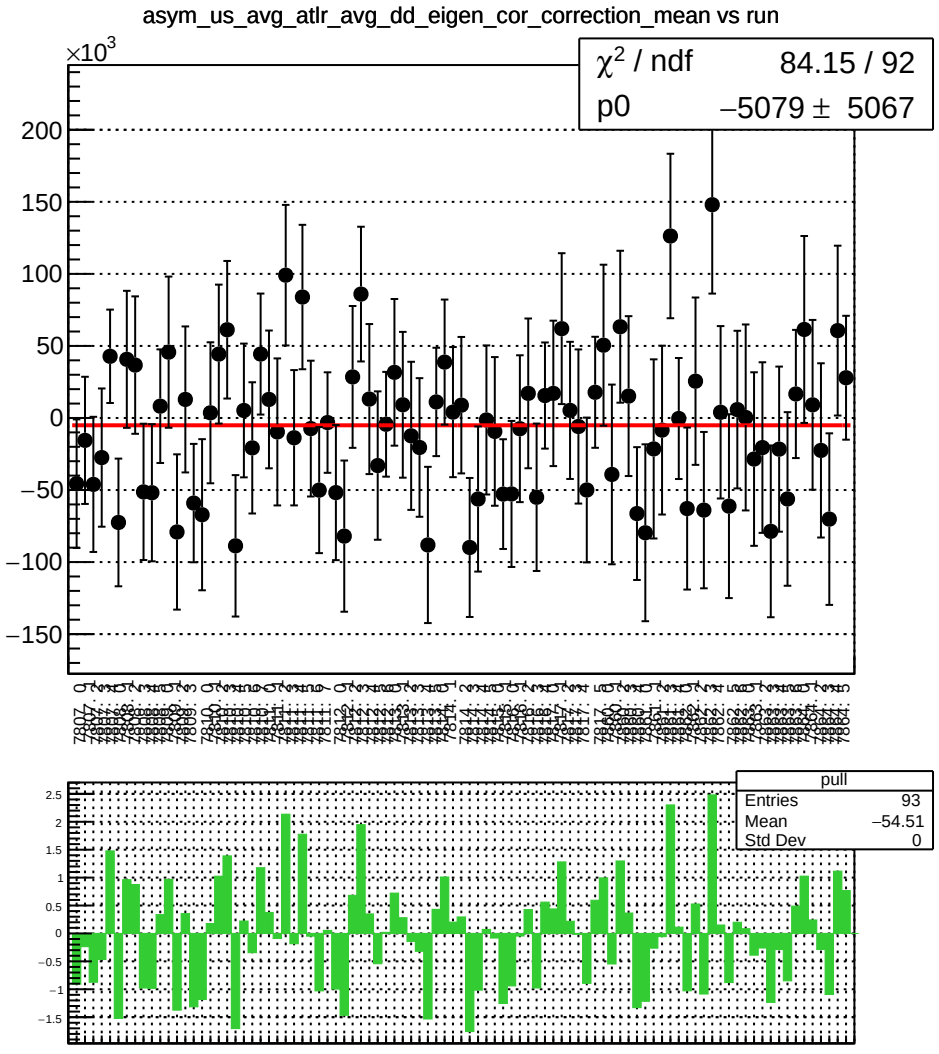

pull1D
Entries 93
Mean −0.01115
Std Dev 0.9512
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

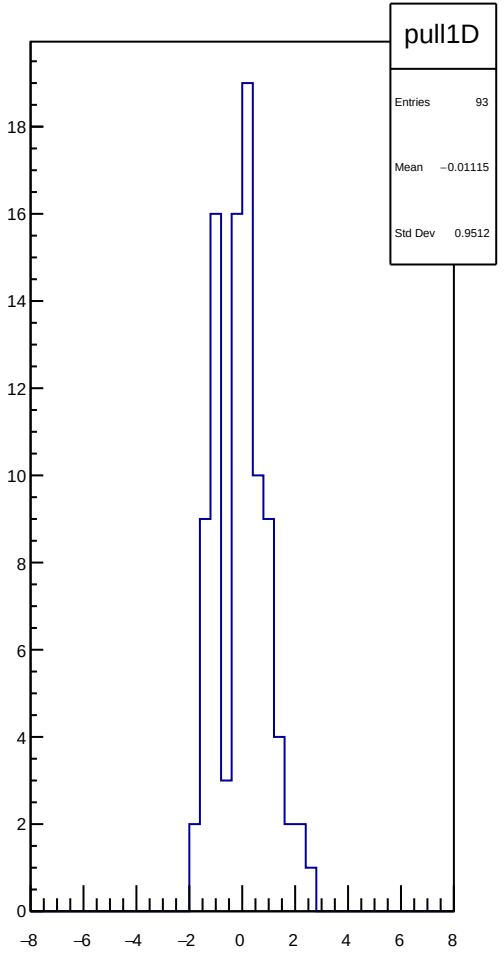

asym_us_avg_atlr_avg_dd_cor_correction_rms vs run
χ² / ndf 1.893e+04 / 92
p0 4850 ± 3.583
6000
5500
5000
4500
4000

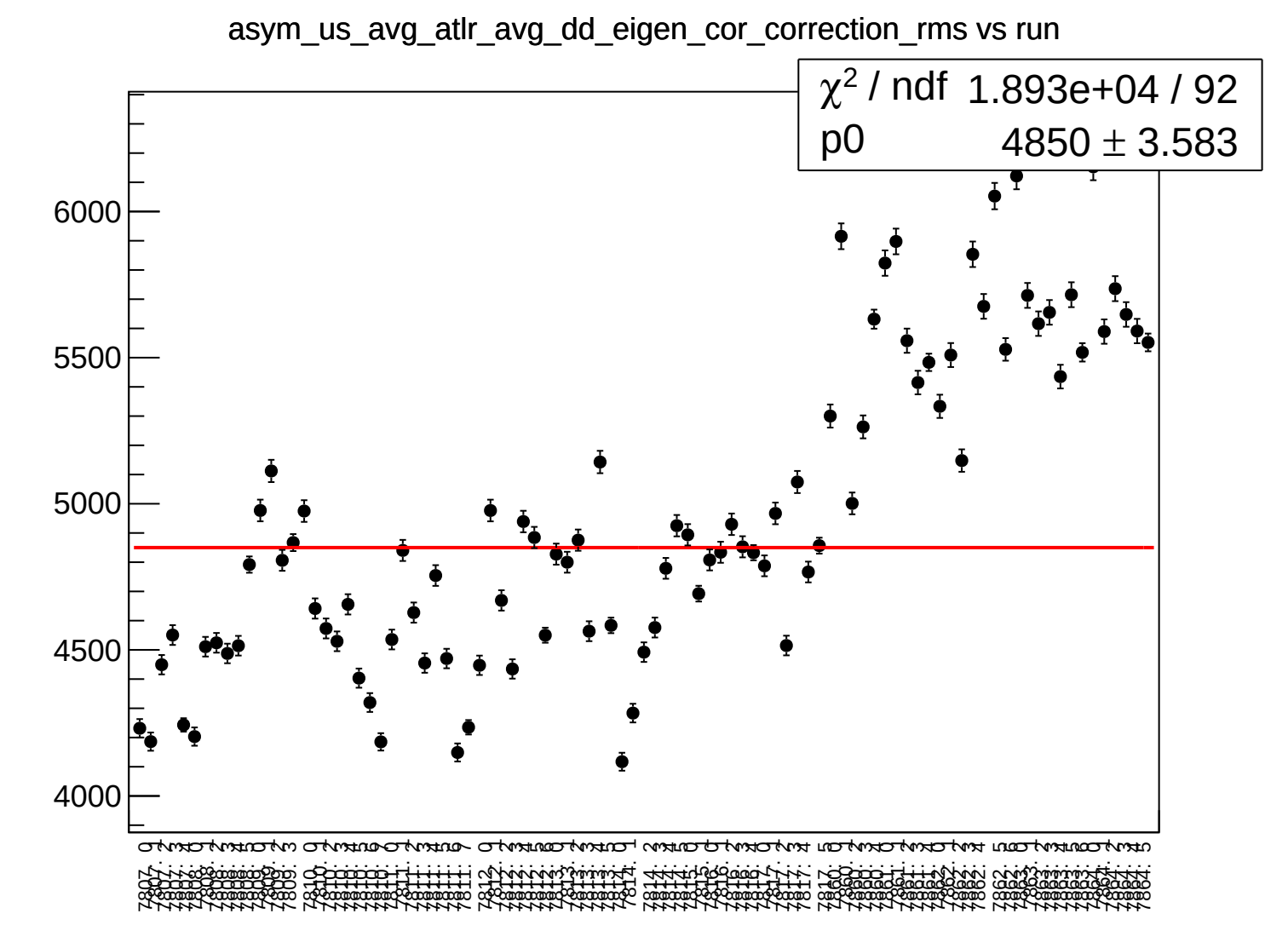

eigen_cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 91.16 / 92
p0 −1131 ± 1183
pull
Entries 93
Mean 557.4
Std Dev 0

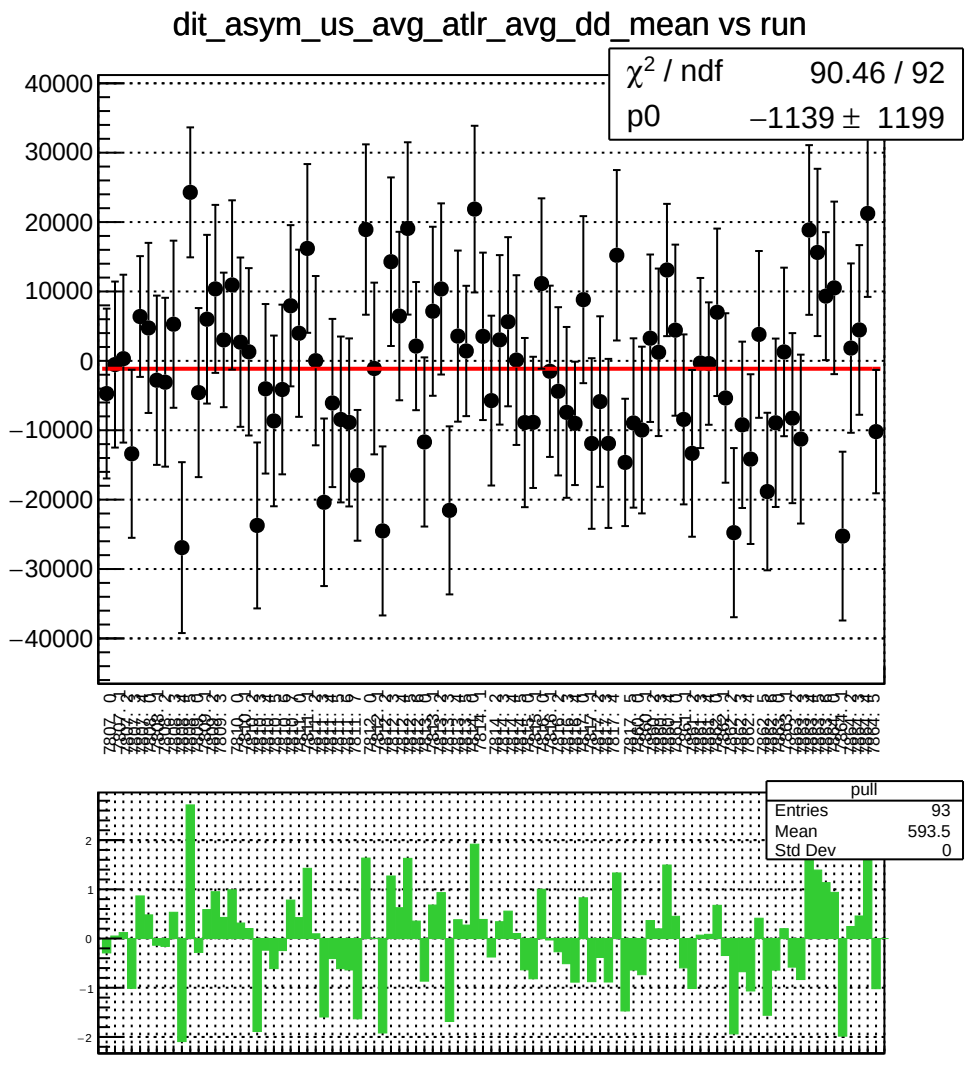

pull1D
Entries 93
Mean −0.002206
Std Dev 0.99

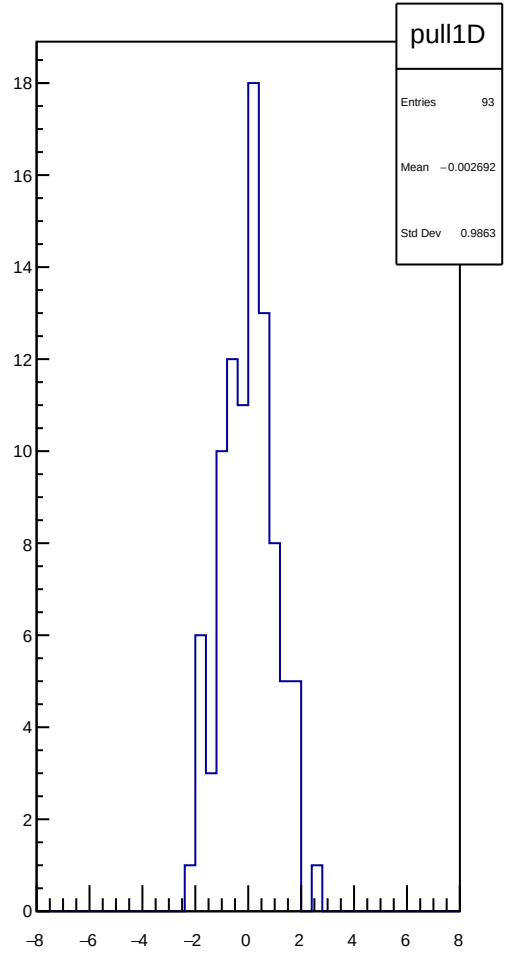

eigen_cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 126.5 / 92
p0 1138 ± 0.8363
1180
1170
1160
1150
1140
1130
1120
1110

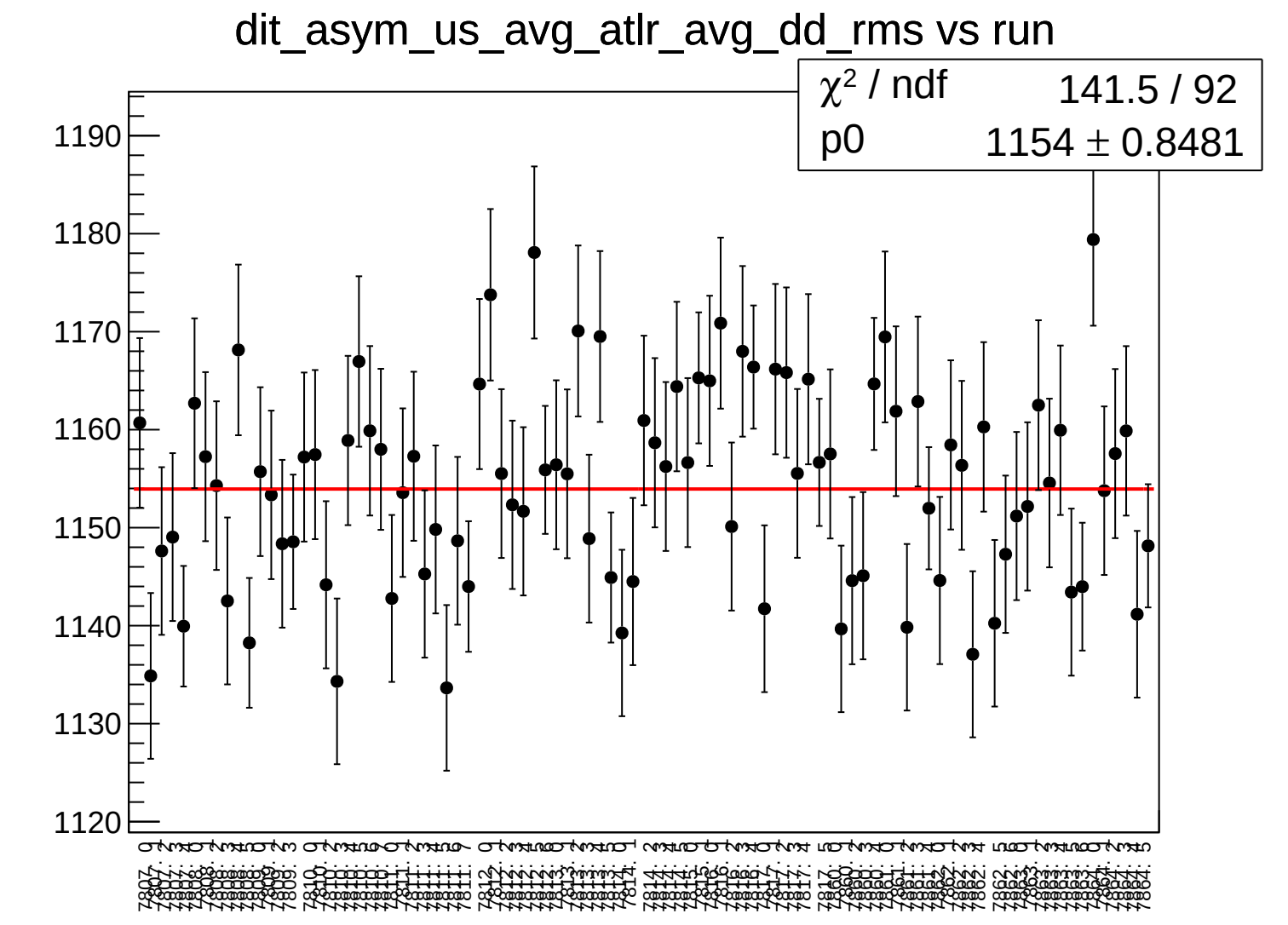

asym_us_avg_atlr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 84.15 / 92
p0 −5079 ± 5067
pull
Entries 93
Mean −54.51
Std Dev 0

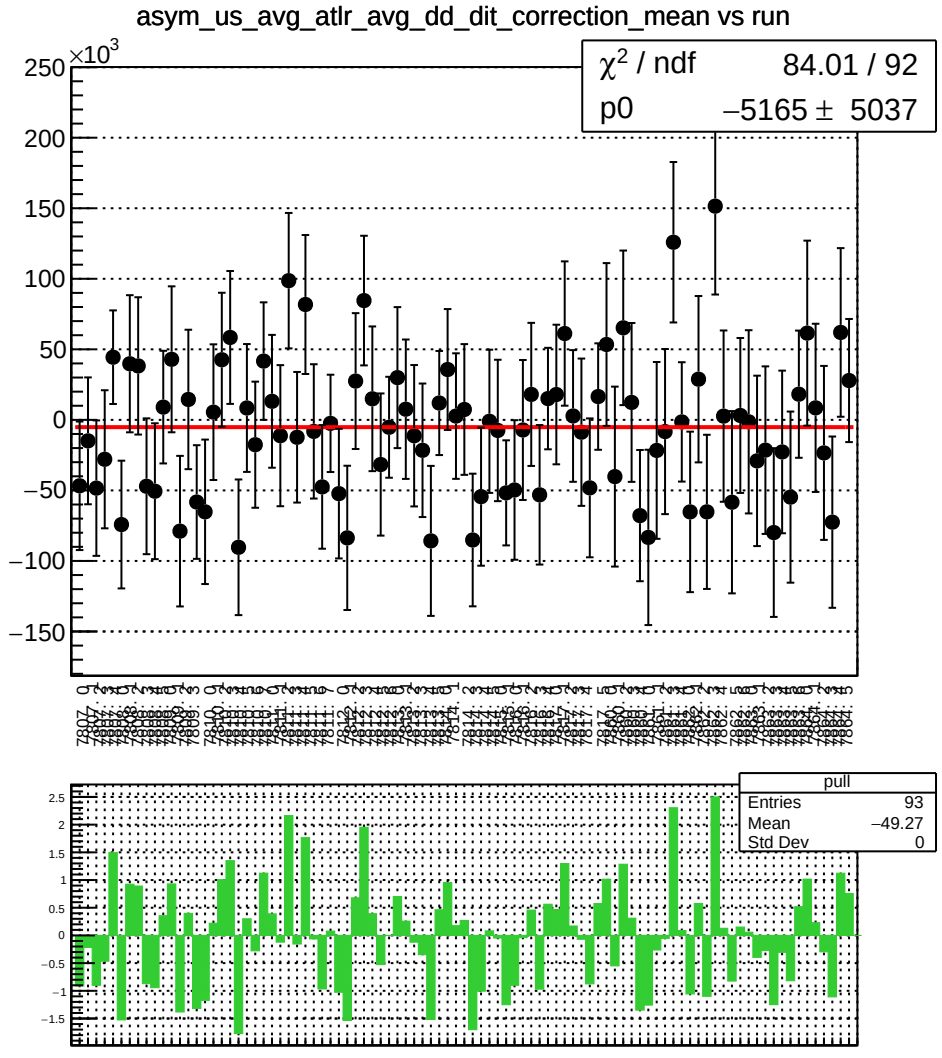

pull1D
Entries 93
Mean −0.01115
Std Dev 0.9512

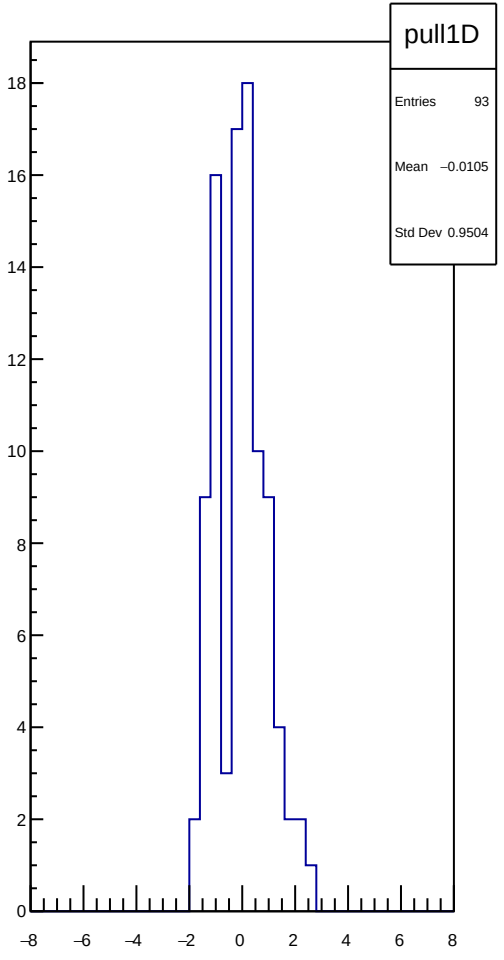

asym_us_avg_atlr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.893e+04 / 92
p0 4850 ± 3.583
6000
5500
5000
4500
4000

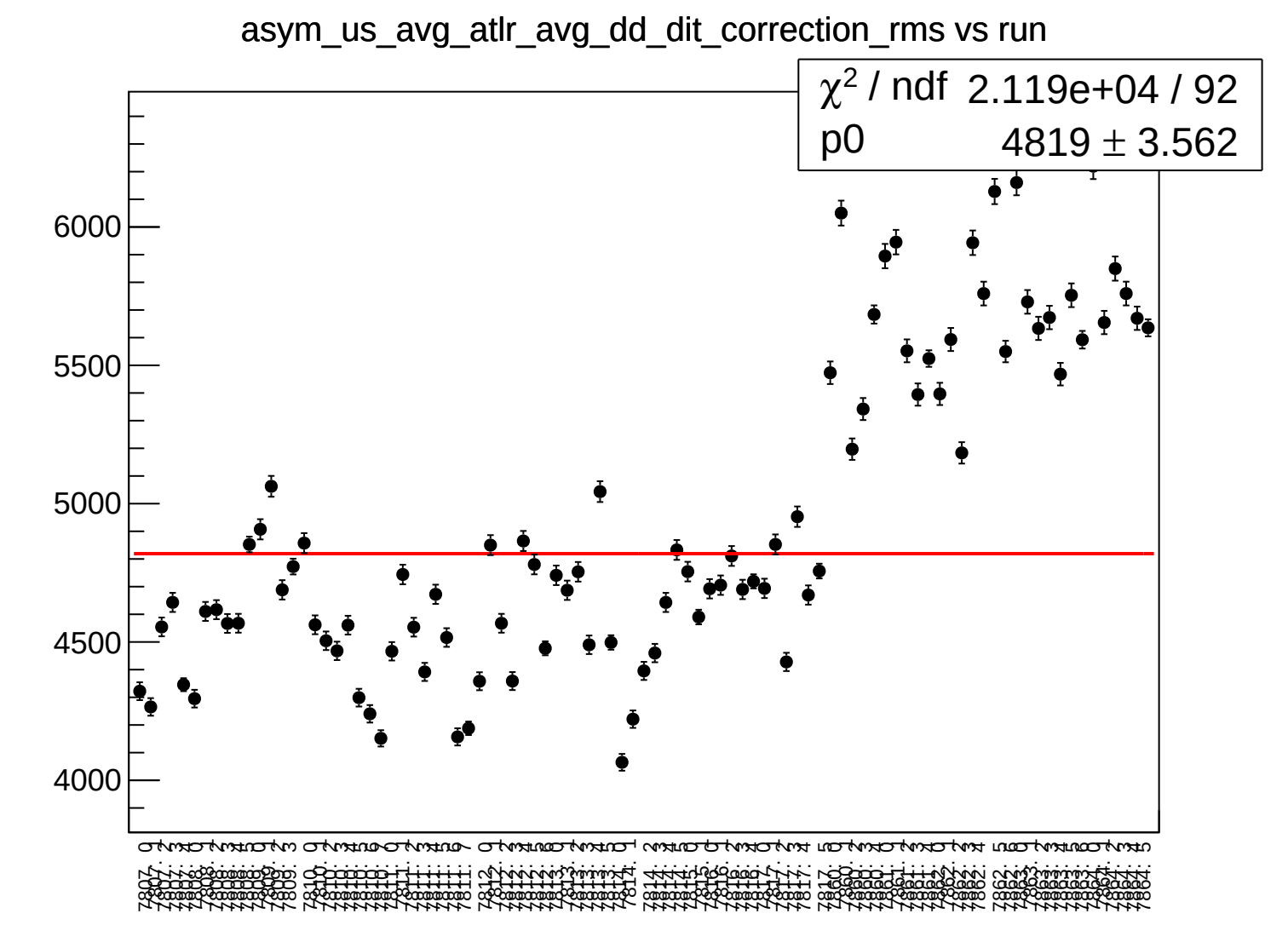

dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 90.46 / 92
p0 −1139 ± 1199
pull
Entries 93
Mean 593.5
Std Dev 0

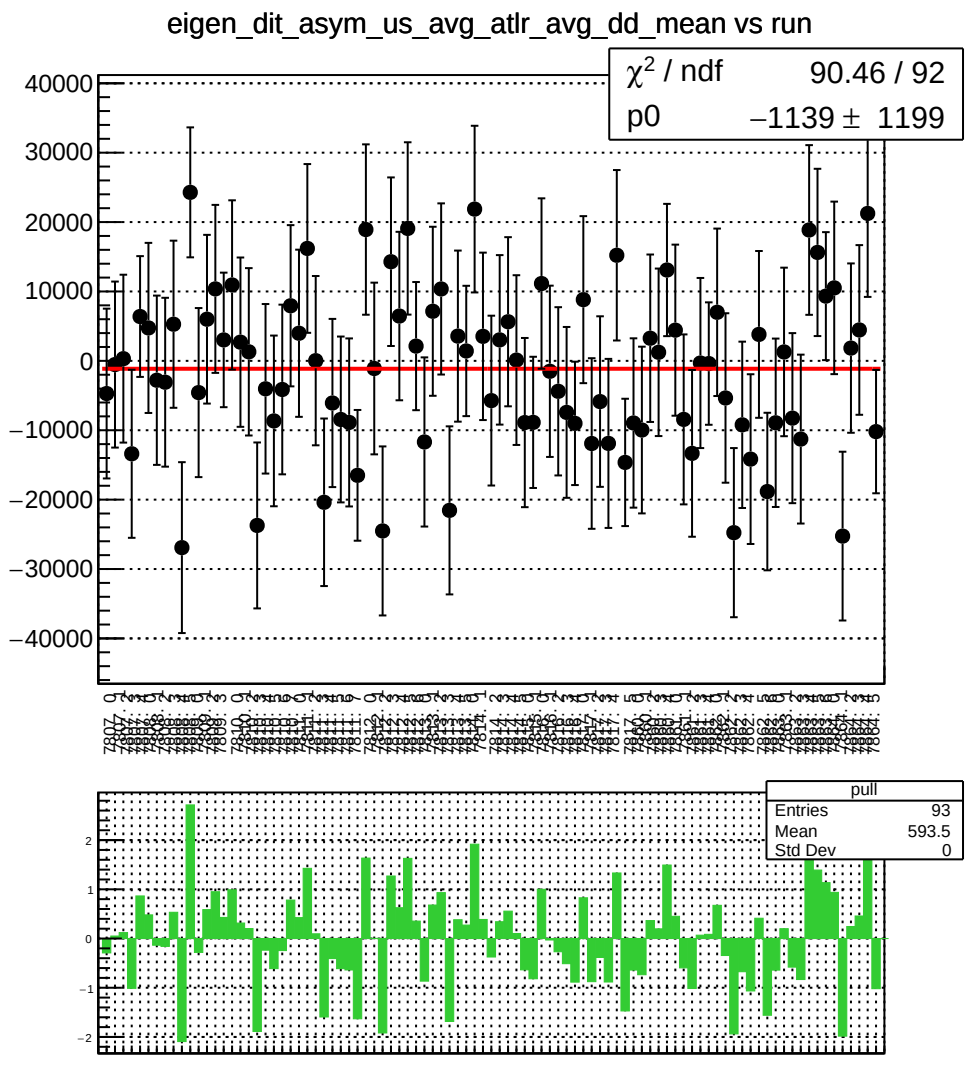

pull1D
Entries 93
Mean −0.002692
Std Dev 0.9863

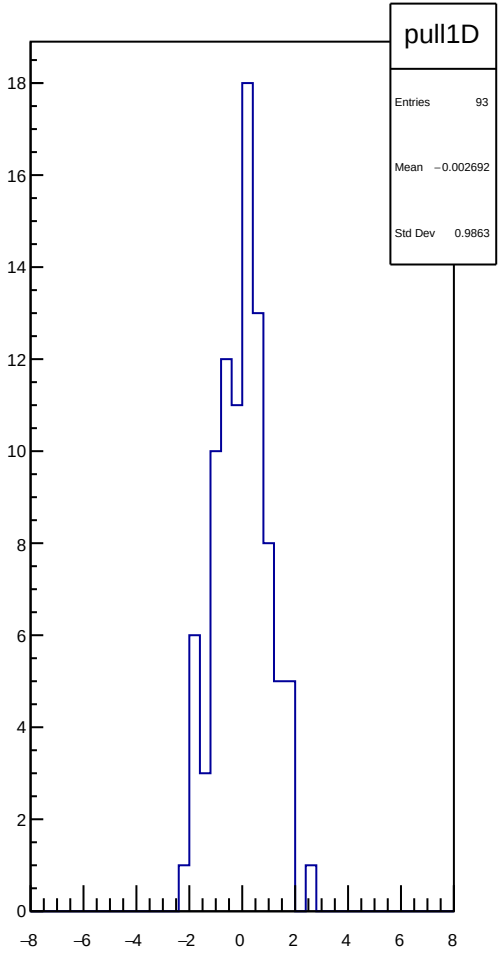

dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 141.5 / 92
p0 1154 ± 0.8481
1190
1180
1170
1160
1150
1140
1130
1120

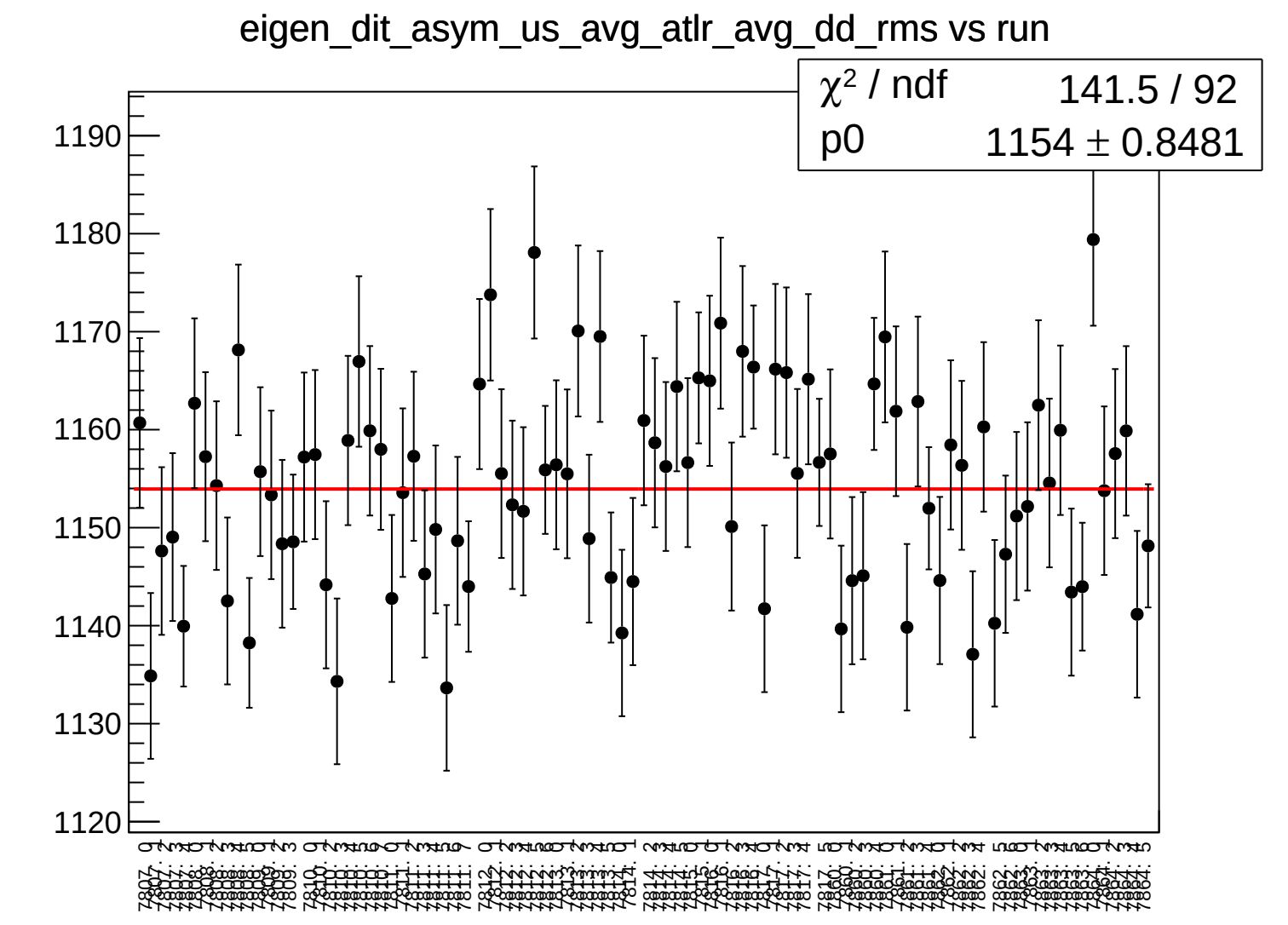

asym_us_avg_atlr_avg_dd_dit_correction_mean vs run
χ^2 / ndf 84.01 / 92
p0 −5165 ± 5037
×10^3
pull
Entries 93
Mean −49.27
Std Dev 0

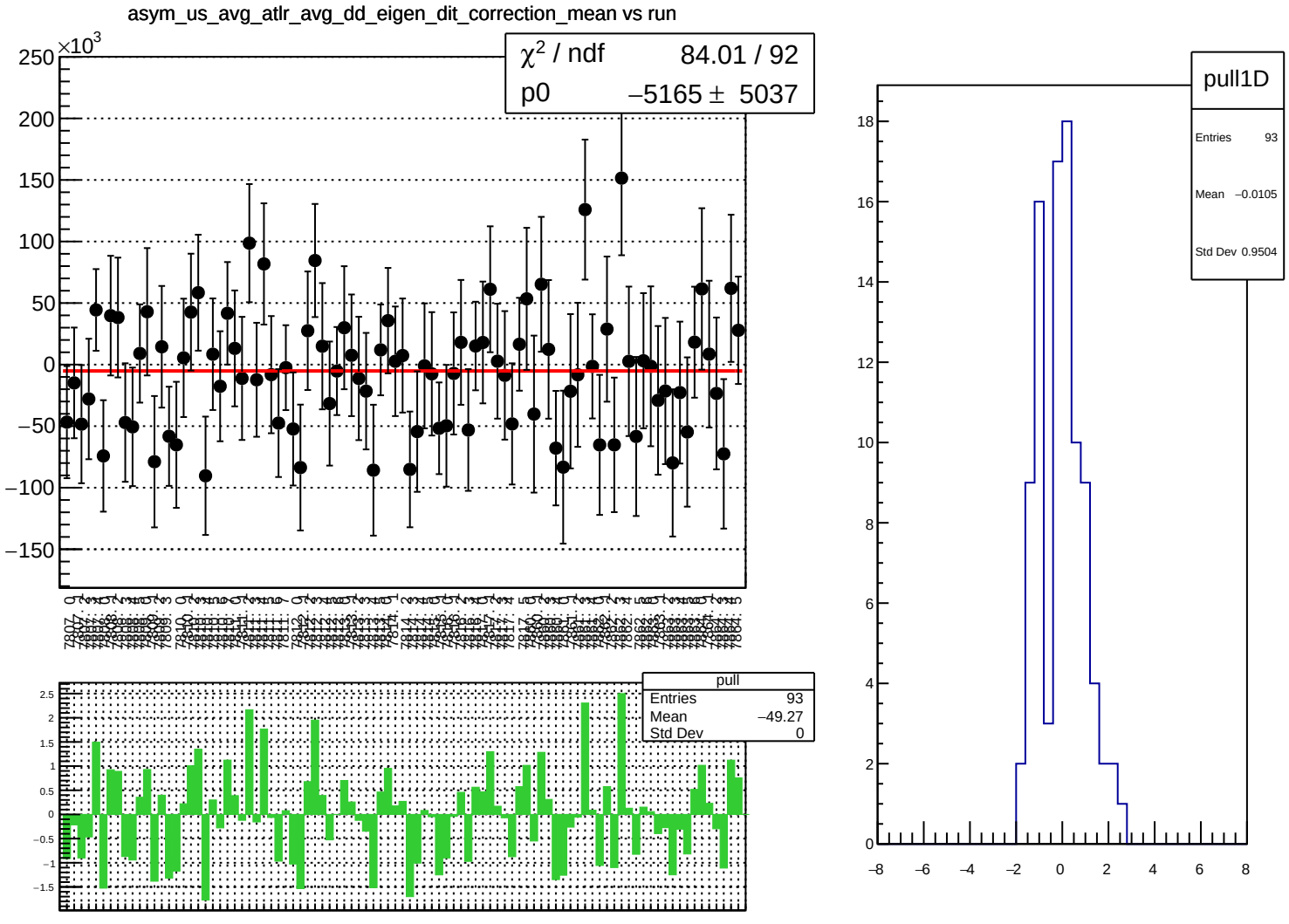

pull1D
Entries 93
Mean −0.0105
Std Dev 0.9504

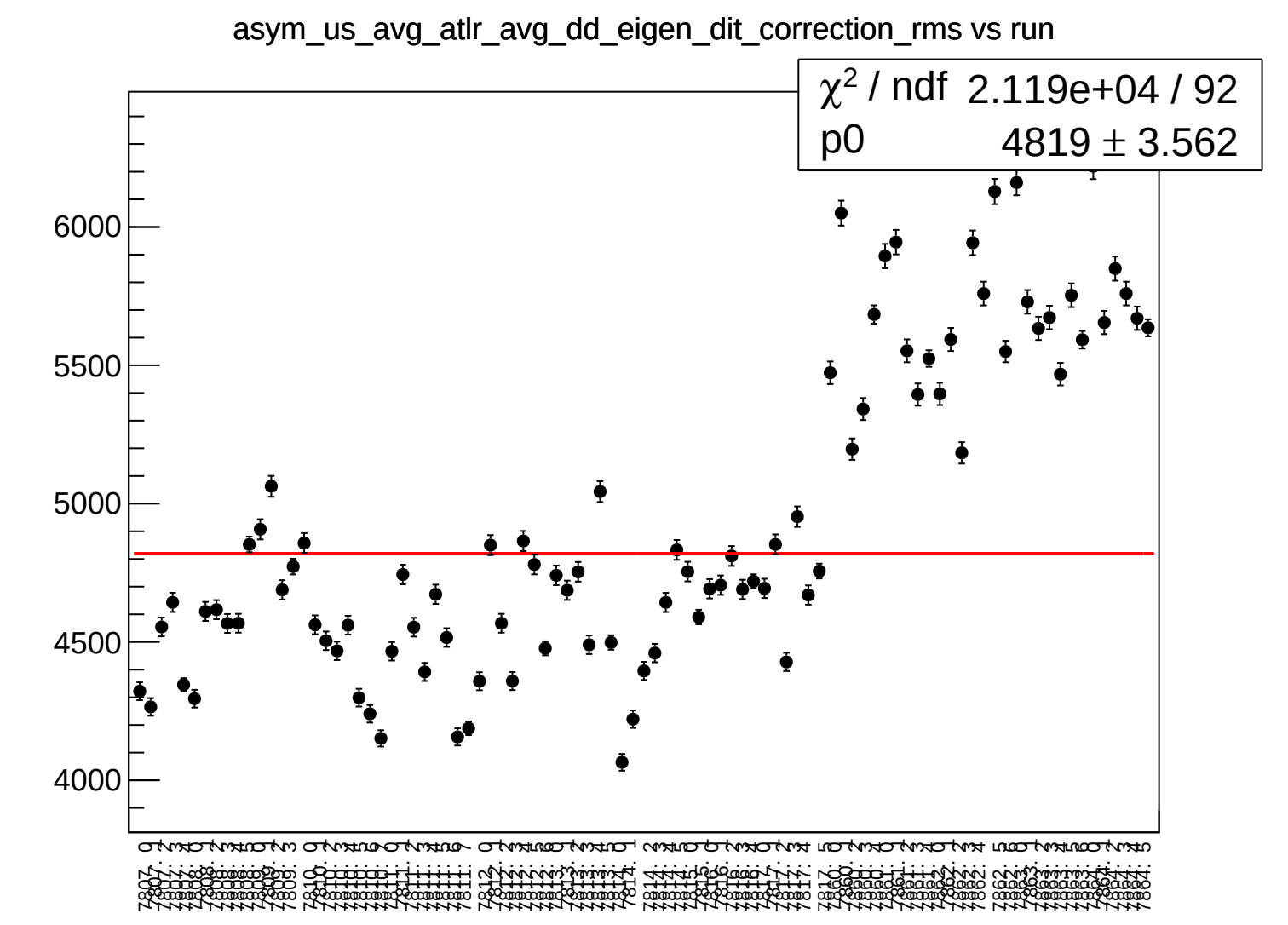

asym_us_avg_atlr_avg_dd_dit_correction_rms vs run
χ² / ndf 2.119e+04 / 92
p0 4819 ± 3.562
6000
5500
5000
4500
4000

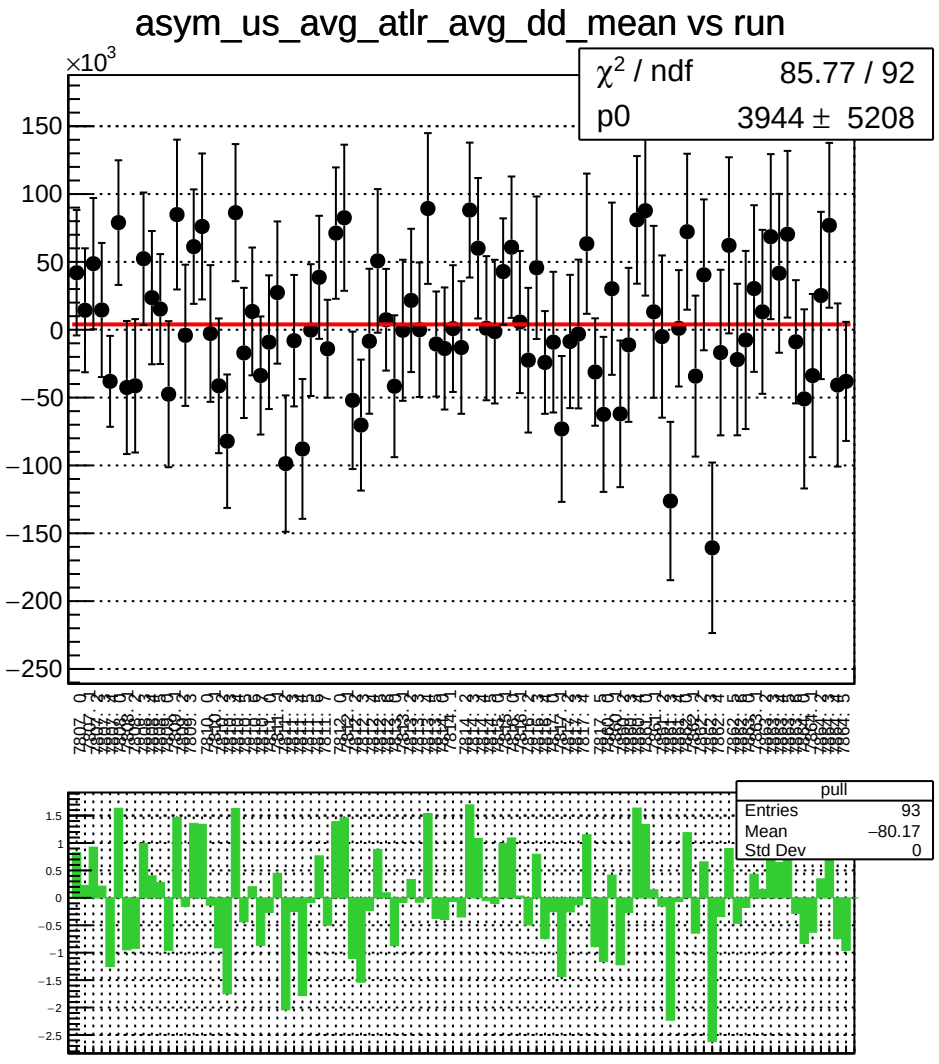

eigen_dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 90.46 / 92
p0 −1139 ± 1199
pull
Entries 93
Mean 593.5
Std Dev 0

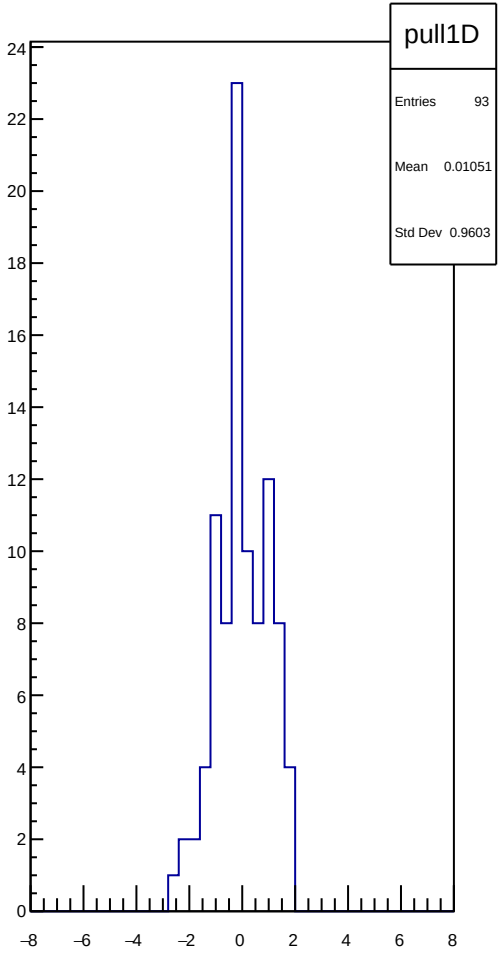

pull1D
Entries 93
Mean −0.002692
Std Dev 0.9863

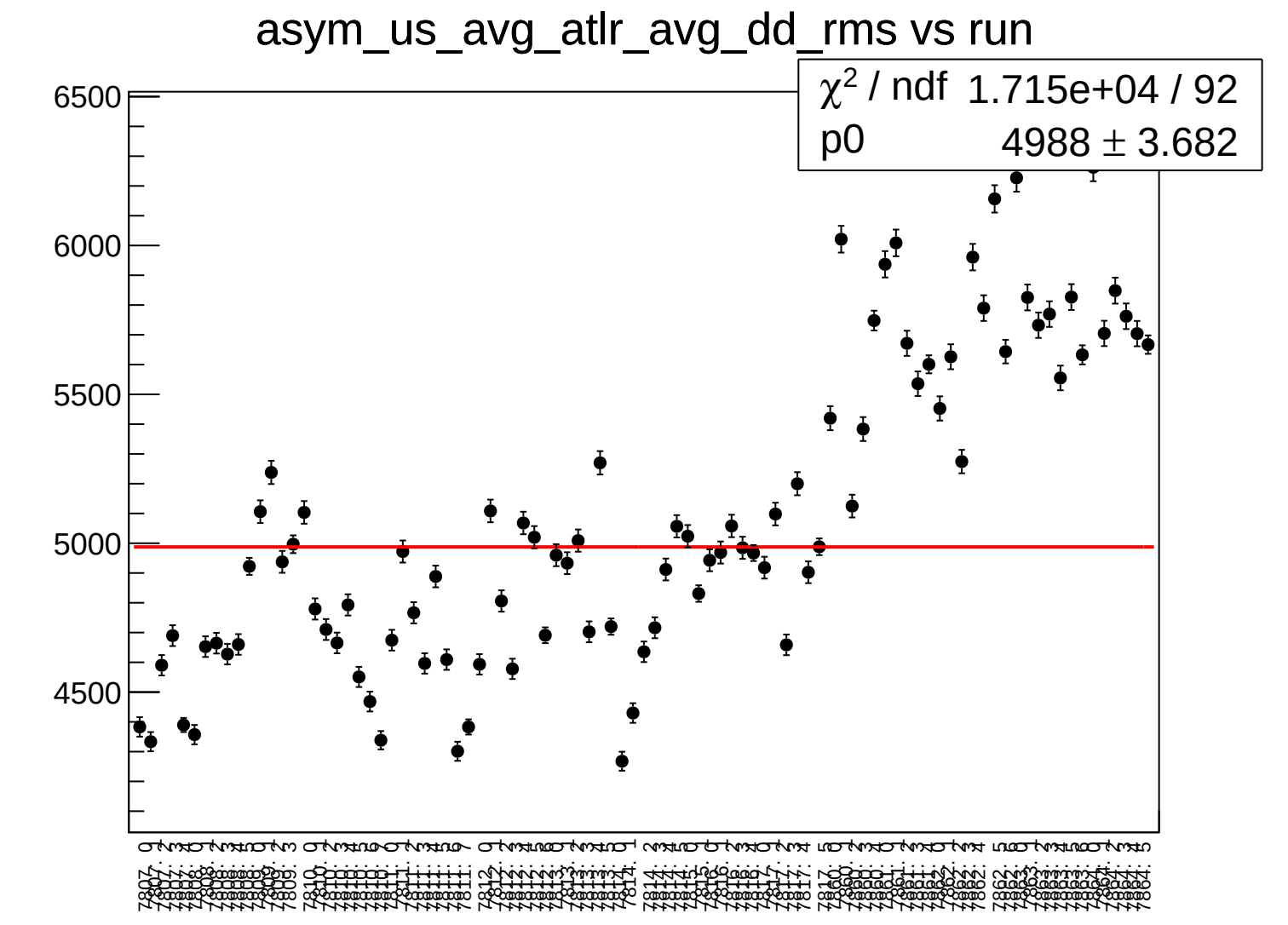

eigen_dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 141.5 / 92
p0 1154 ± 0.8481
1190
1180
1170
1160
1150
1140
1130
1120

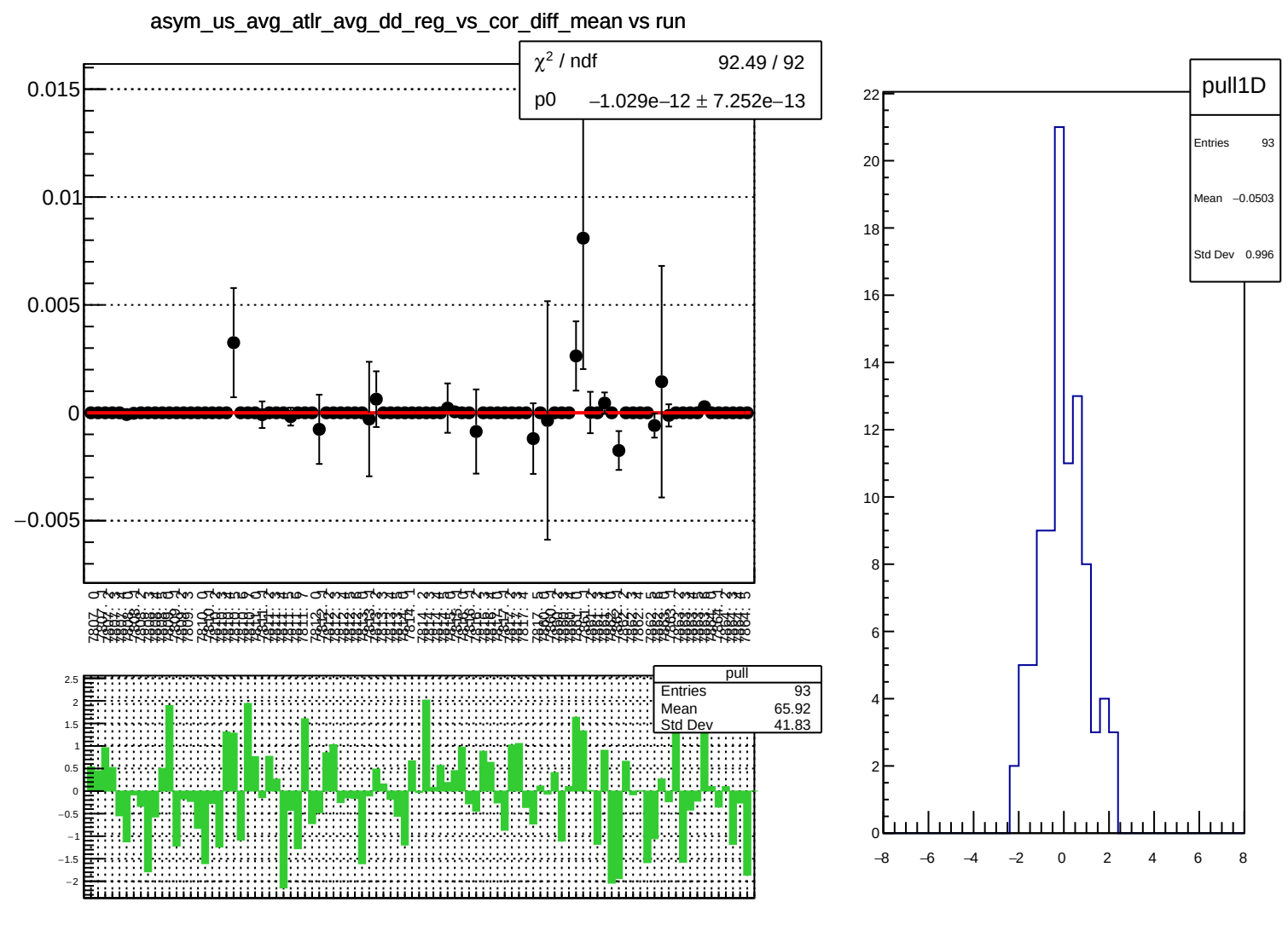

asym_us_avg_atlr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 84.01 / 92
p0 −5165 ± 5037
×10³
pull
Entries 93
Mean −49.27
Std Dev 0
pull1D
Entries 93
Mean −0.0105
Std Dev 0.9504

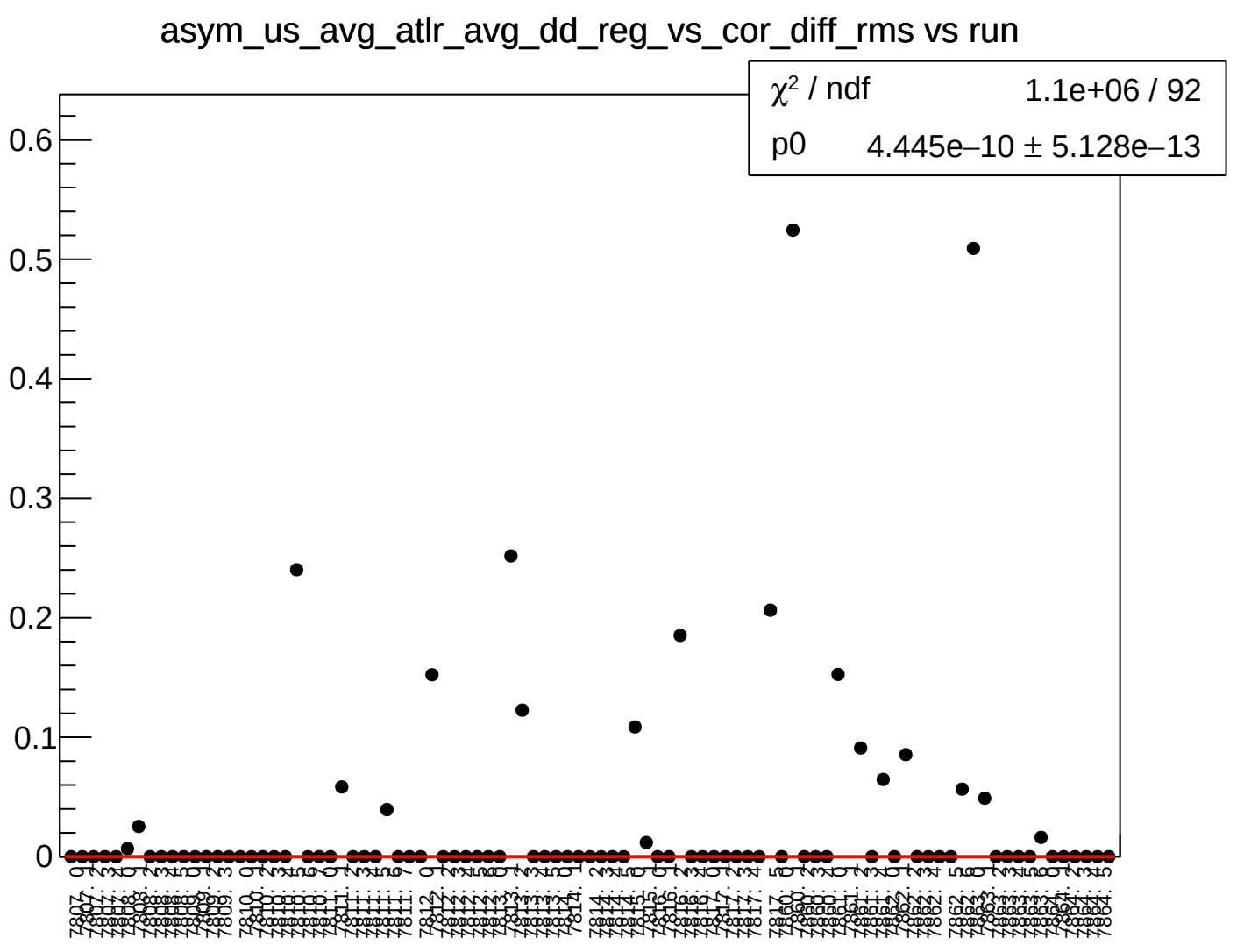

asym_us_avg_atlr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.119e+04 / 92
p0 4819 ± 3.562
6000
5500
5000
4500
4000

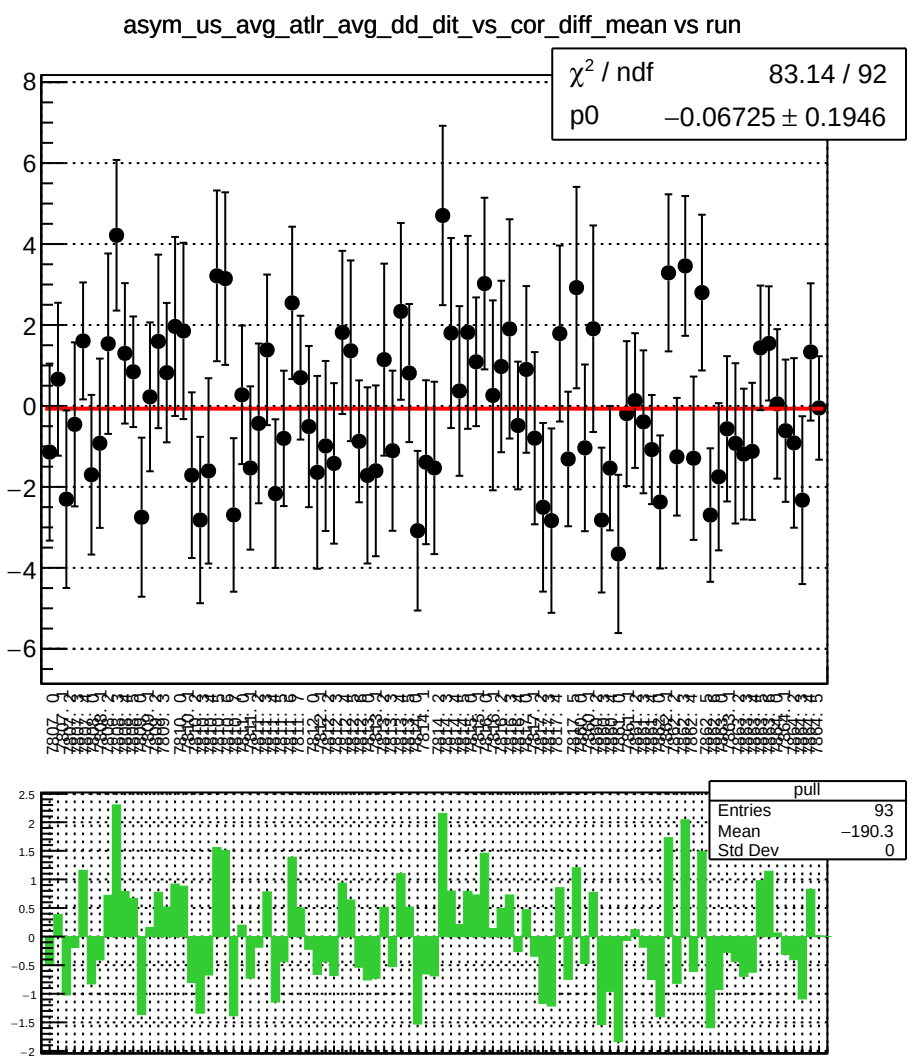

asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 85.77 / 92
p0 3944 ± 5208
×10³
pull
Entries 93
Mean −80.17
Std Dev 0

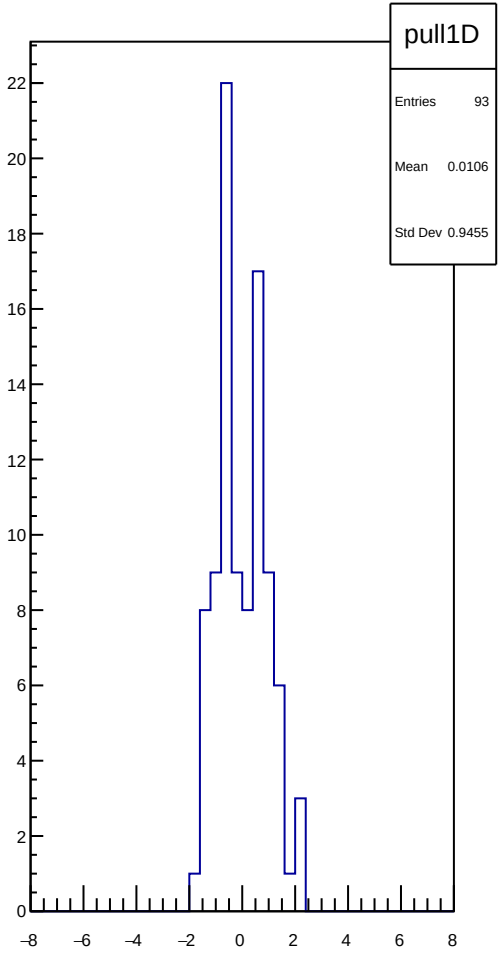

pull1D
Entries 93
Mean 0.01051
Std Dev 0.9603

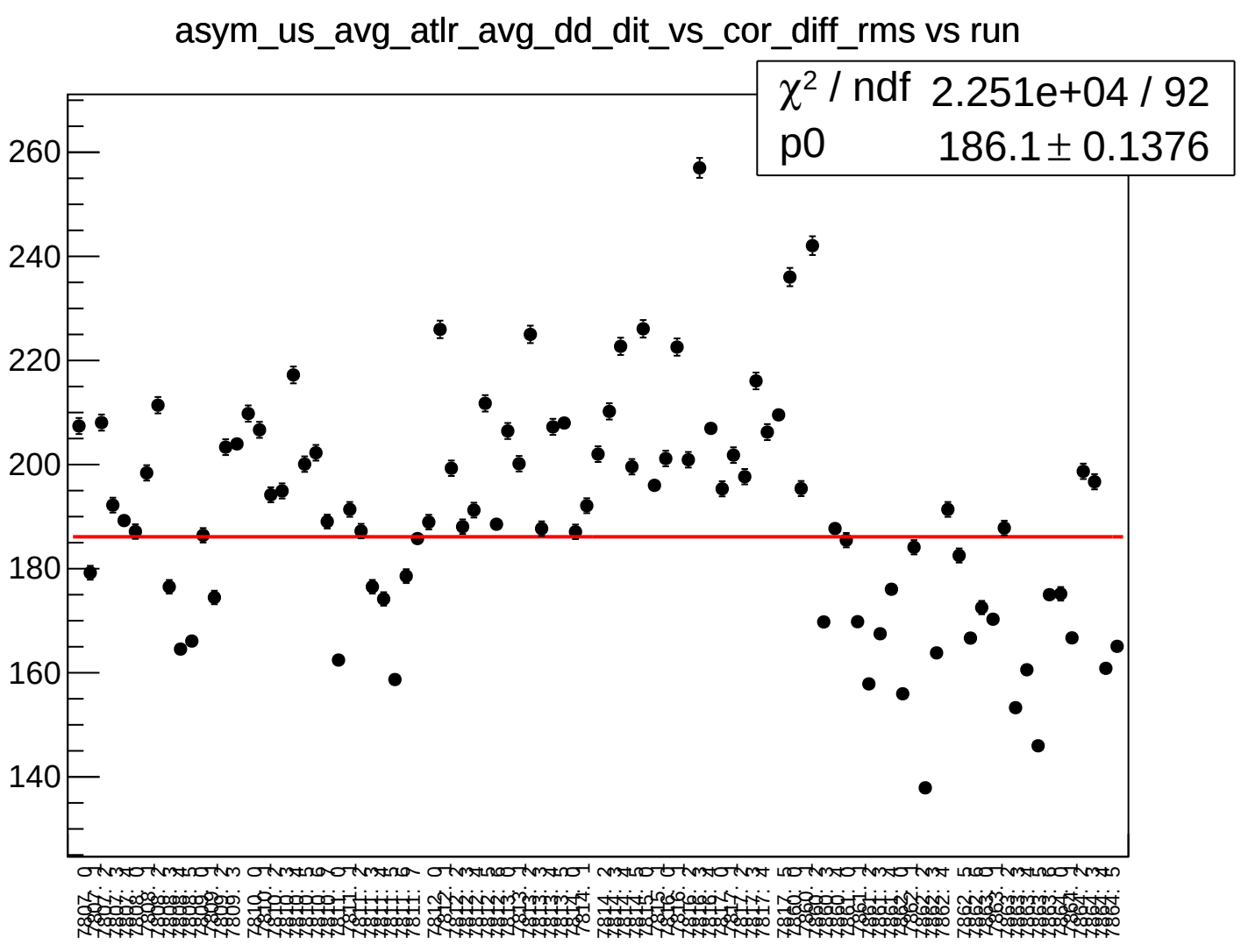

asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 1.715e+04 / 92
p0 4988 ± 3.682
6500
6000
5500
5000
4500

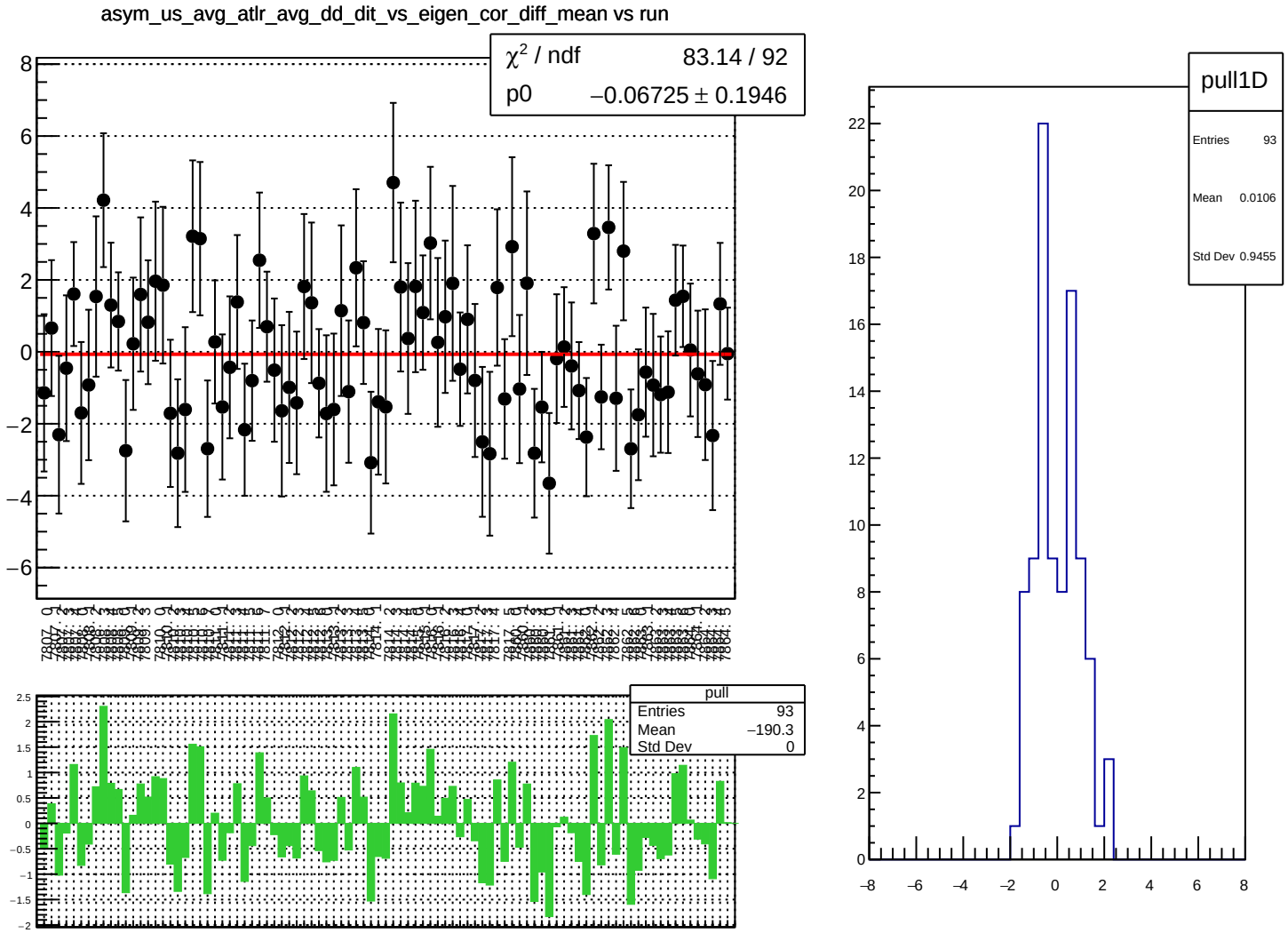

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 92.49 / 92
p0 −1.029e−12 ± 7.252e−13
0.015
0.01
0.005
0
−0.005
pull
Entries 93
Mean 65.92
Std Dev 41.83
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean −0.0503
Std Dev 0.996
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

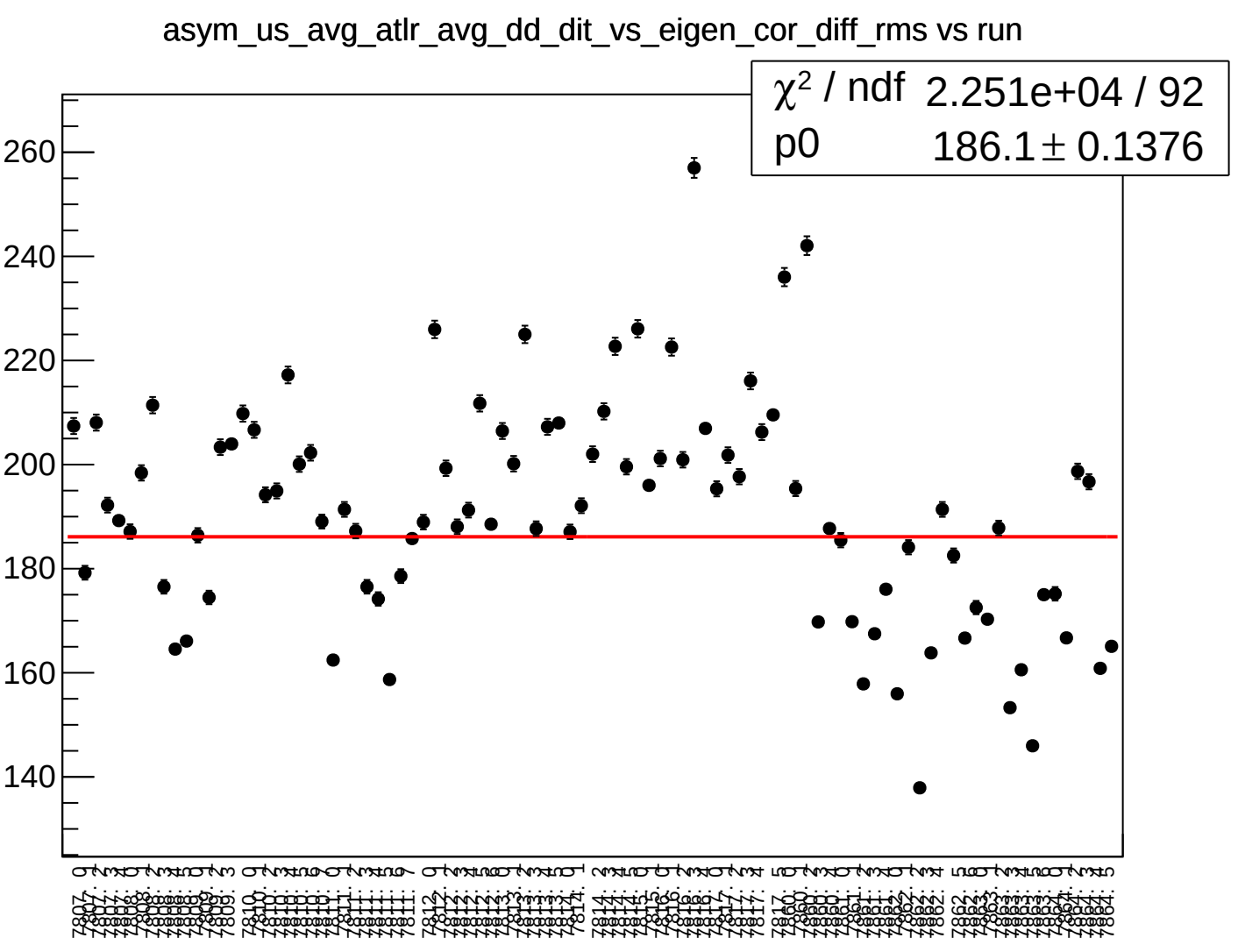

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.1e+06 / 92
p0 4.445e−10 ± 5.128e−13
0.6
0.5
0.4
0.3
0.2
0.1
0

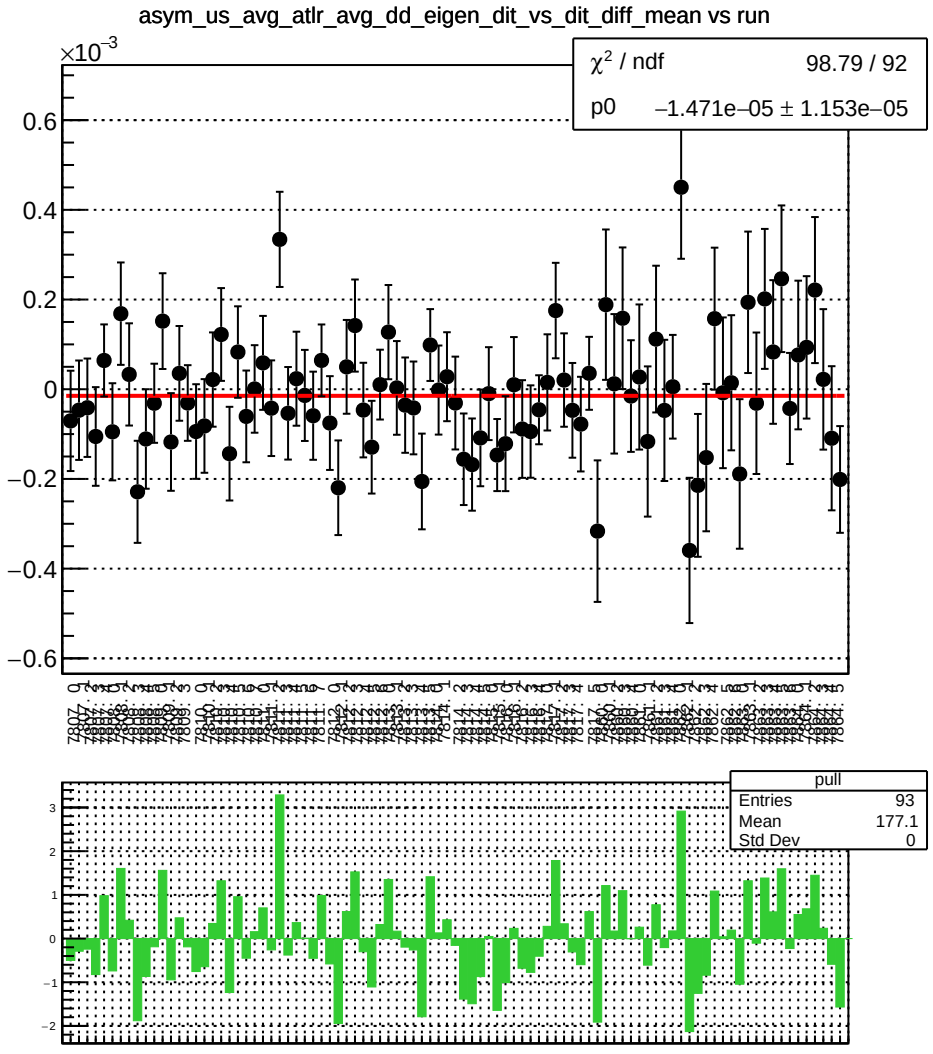

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 83.14 / 92
p0 −0.06725 ± 0.1946
pull
Entries 93
Mean −190.3
Std Dev 0

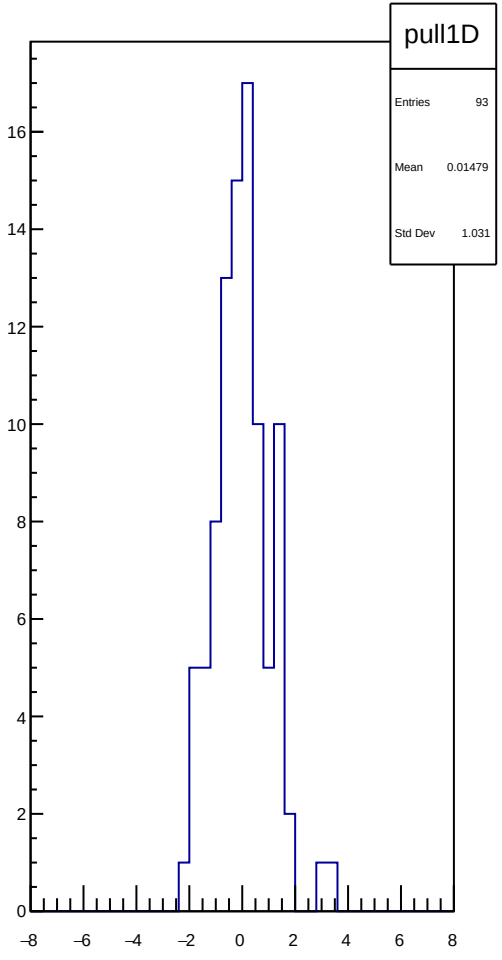

pull1D
Entries 93
Mean 0.0106
Std Dev 0.9455

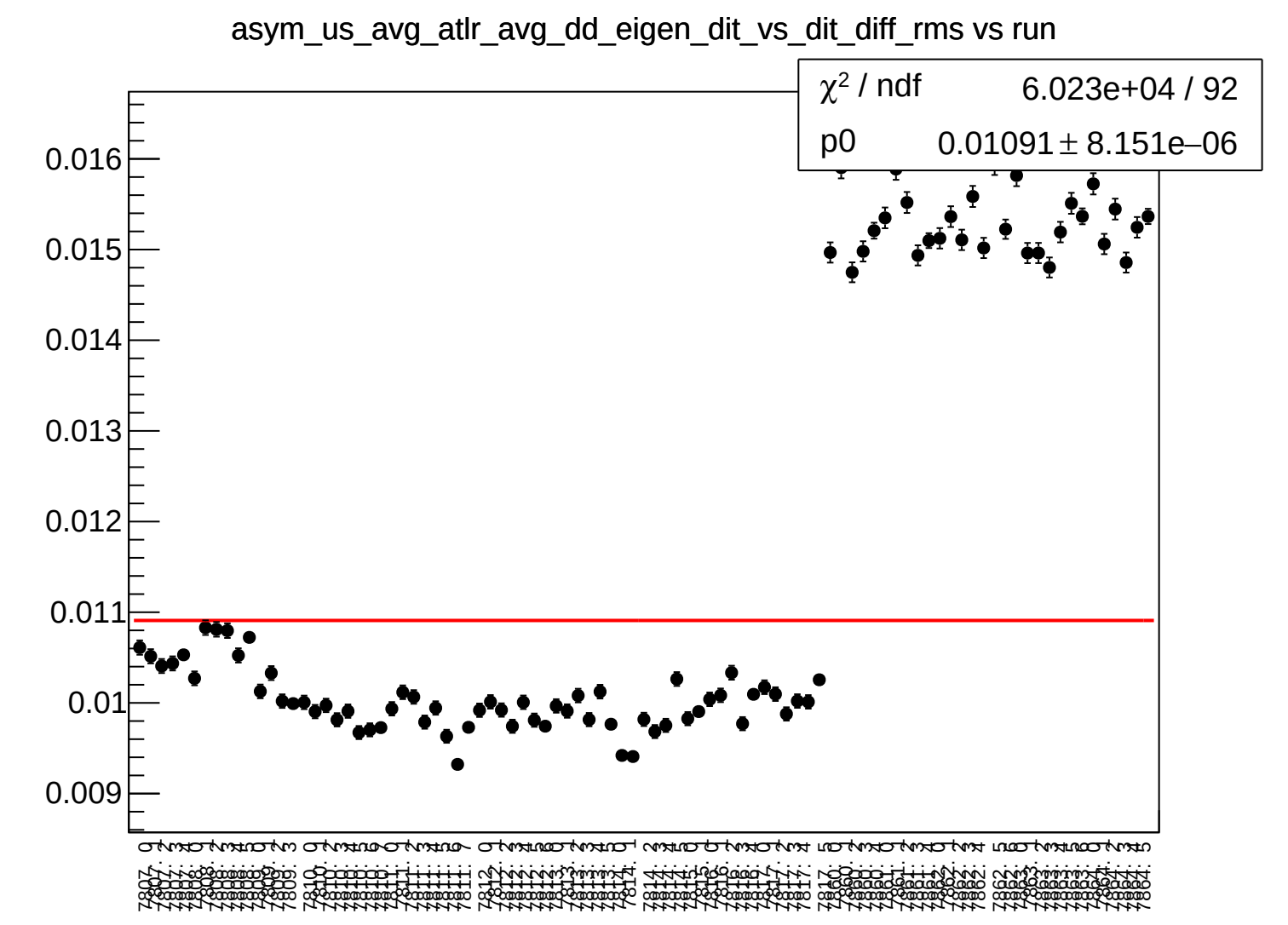

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.251e+04 / 92
p0 186.1 ± 0.1376
260
240
220
200
180
160
140

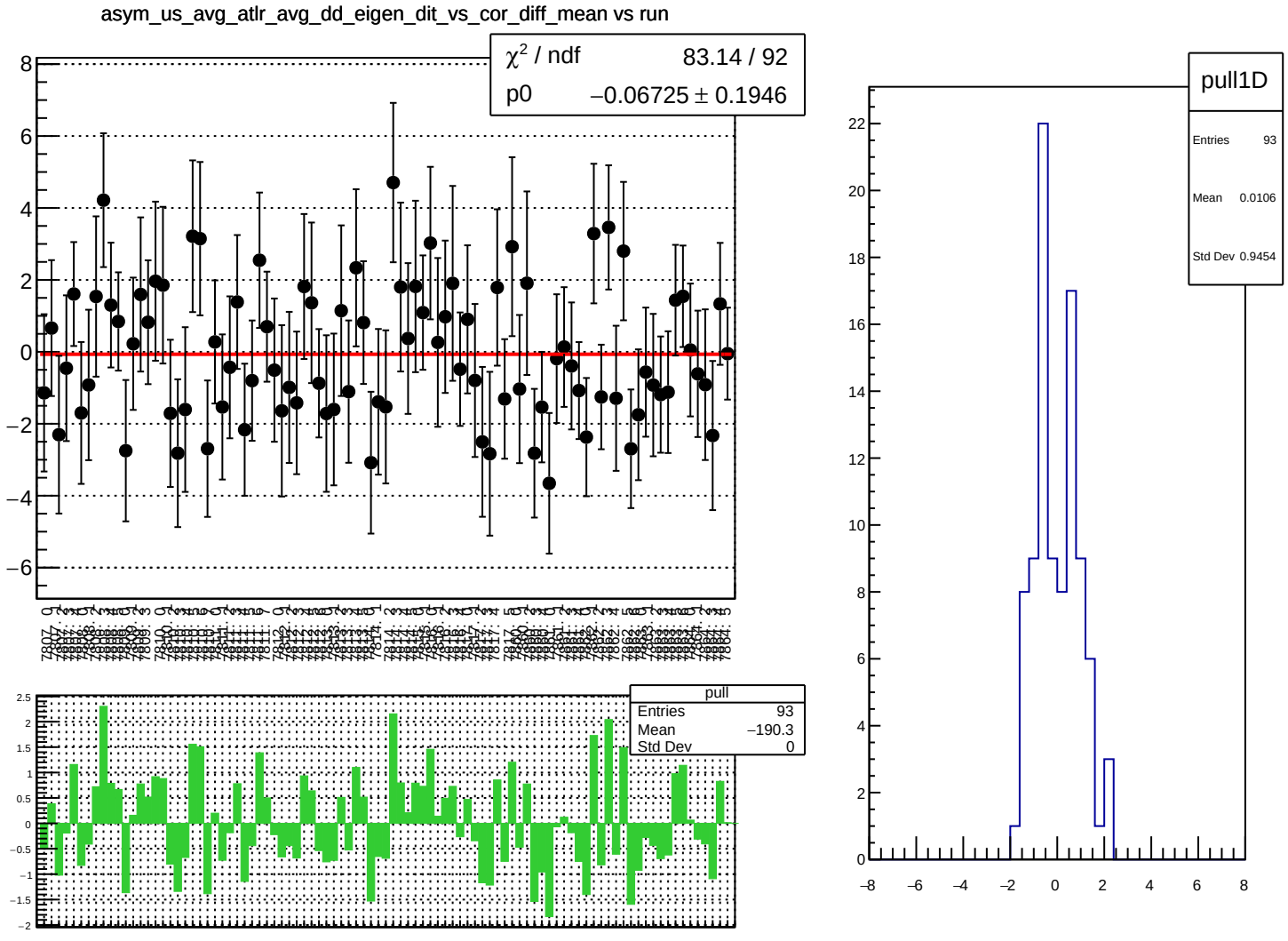

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.14 / 92
p0 −0.06725 ± 0.1946
pull
Entries 93
Mean −190.3
Std Dev 0
pull1D
Entries 93
Mean 0.0106
Std Dev 0.9455

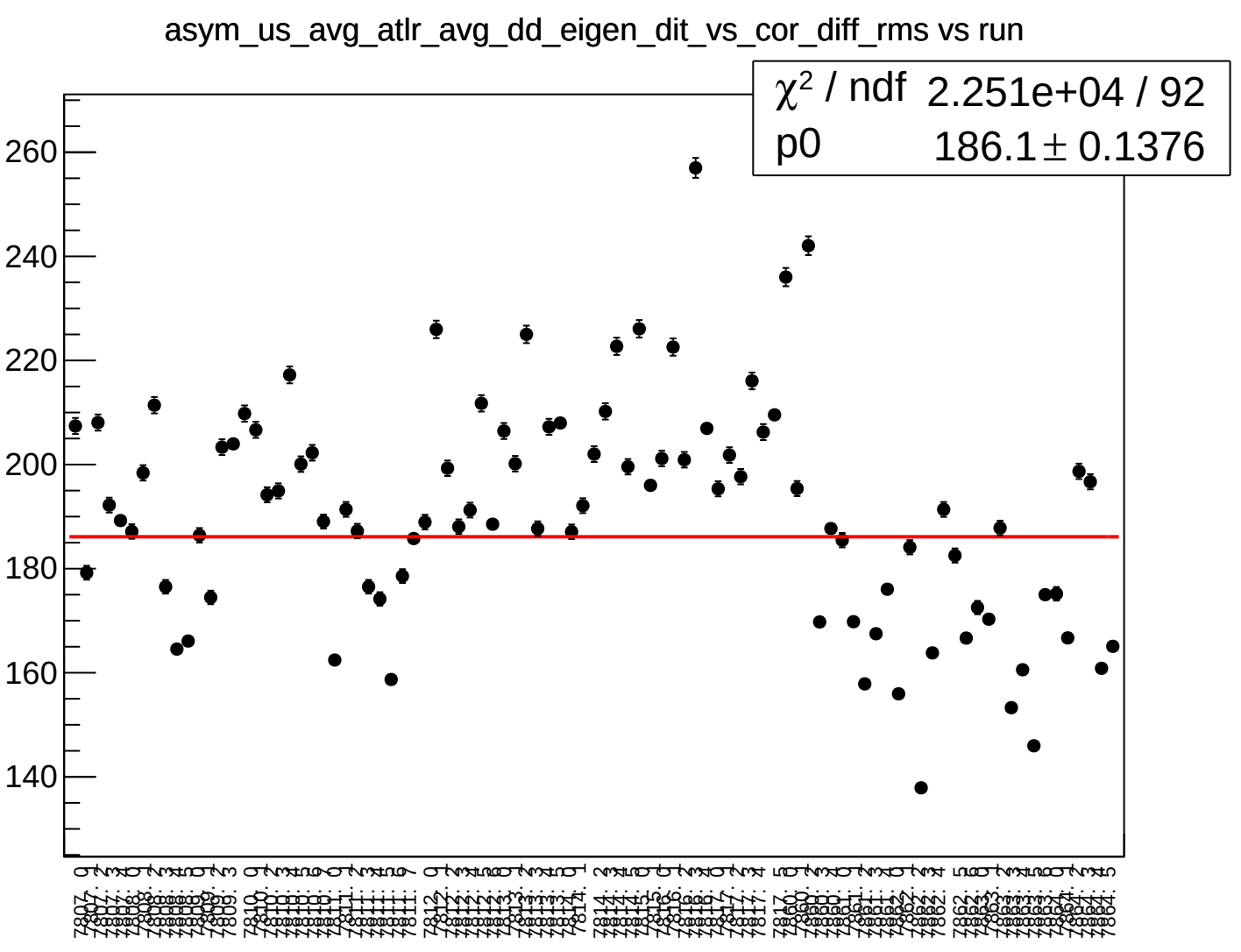

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.251e+04 / 92
p0 186.1 ± 0.1376
260
240
220
200
180
160
140

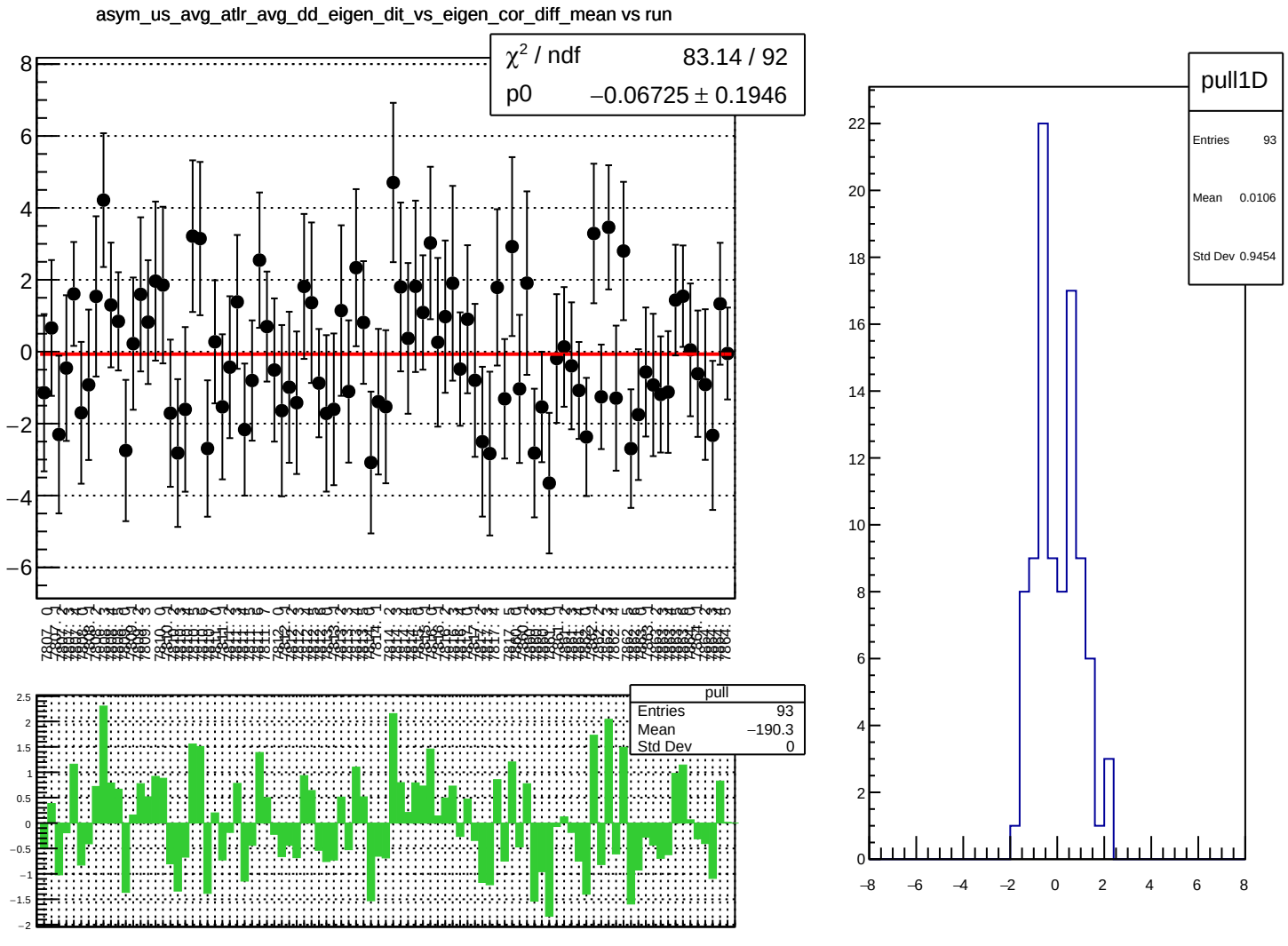

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 98.79 / 92
p0 −1.471e−05 ± 1.153e−05
pull
Entries 93
Mean 177.1
Std Dev 0

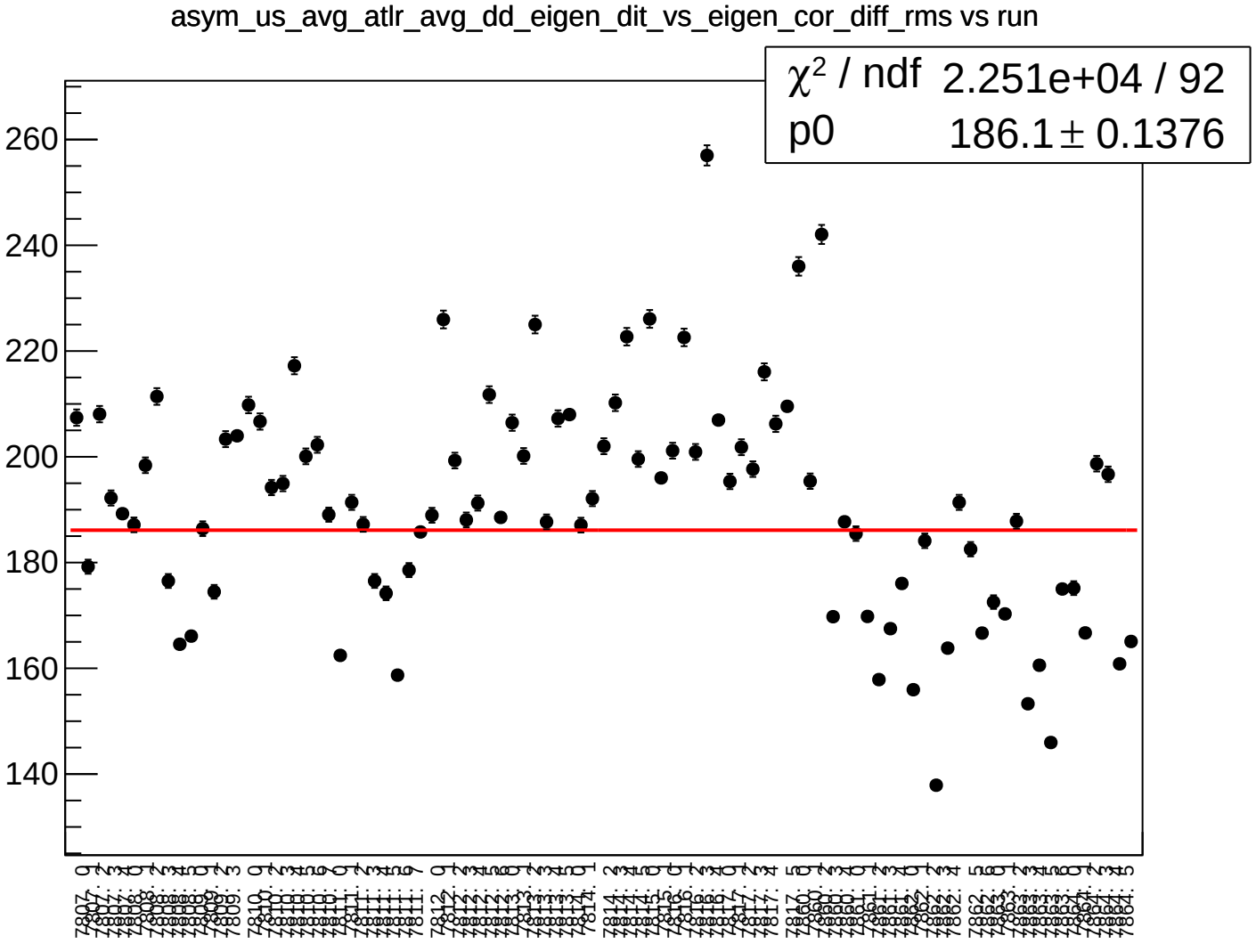

pull1D
Entries 93
Mean 0.01479
Std Dev 1.031

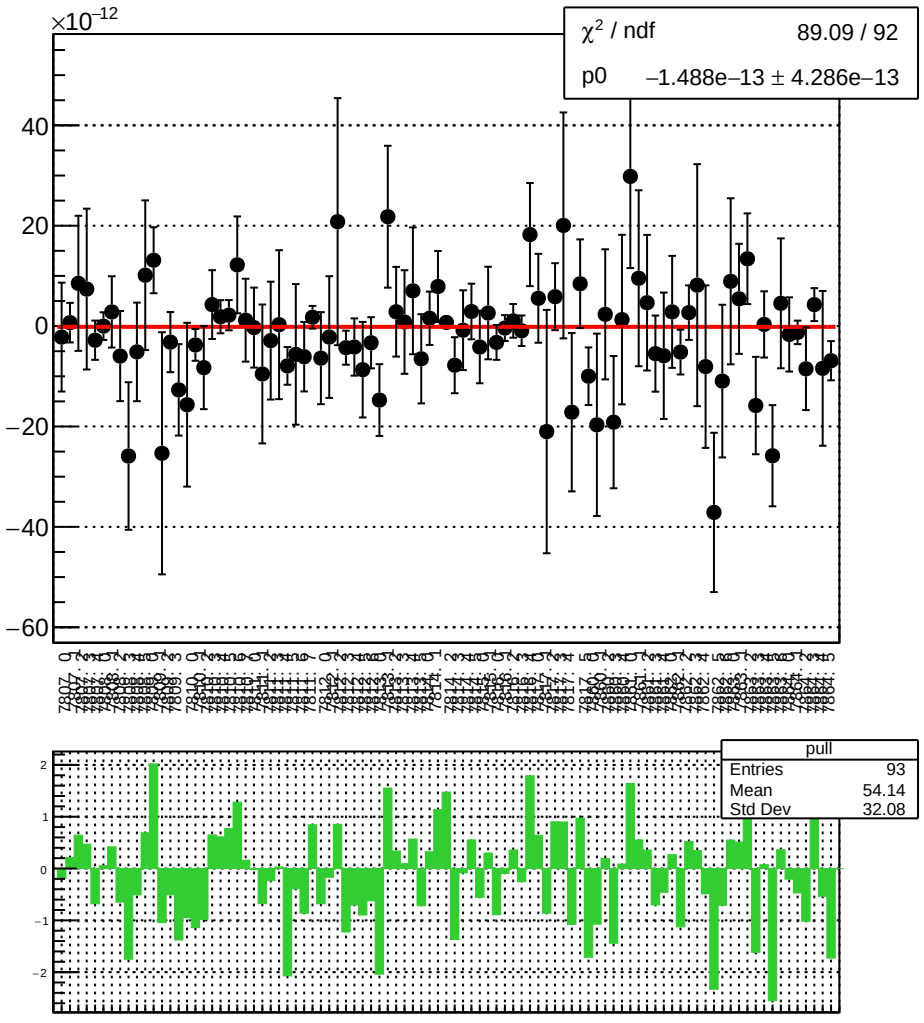

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.023e+04 / 92
p0 0.01091 ± 8.151e−06
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009

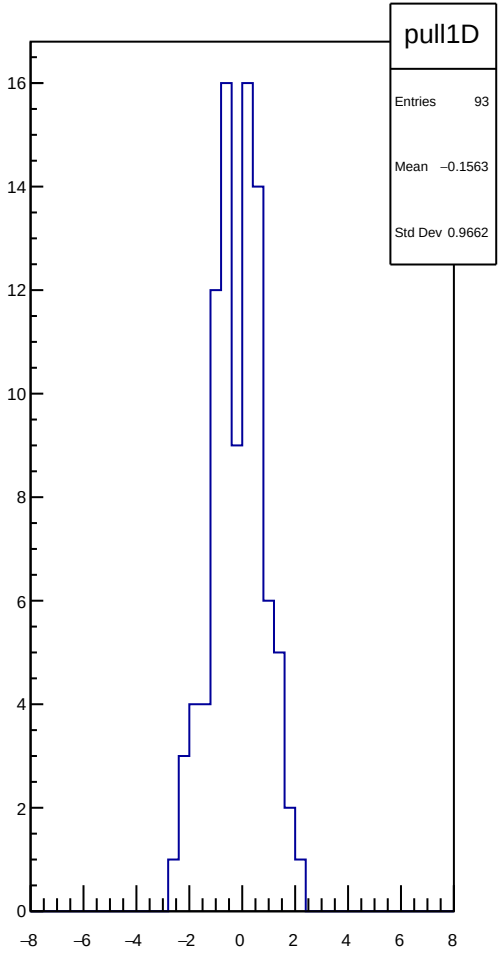

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.14 / 92
p0 −0.06725 ± 0.1946
pull
Entries 93
Mean −190.3
Std Dev 0
pull1D
Entries 93
Mean 0.0106
Std Dev 0.9454

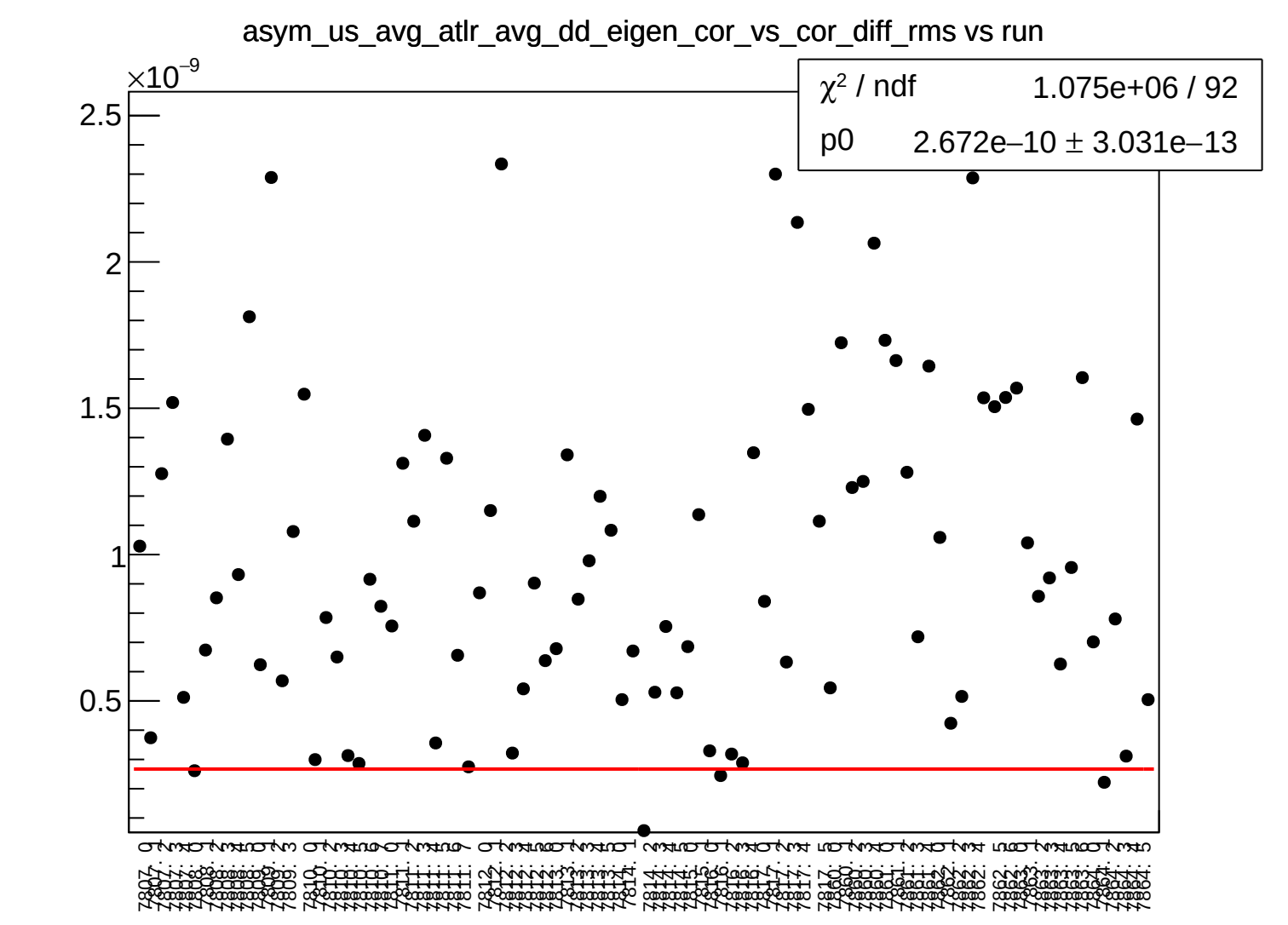

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.251e+04 / 92
p0 186.1 ± 0.1376
260
240
220
200
180
160
140

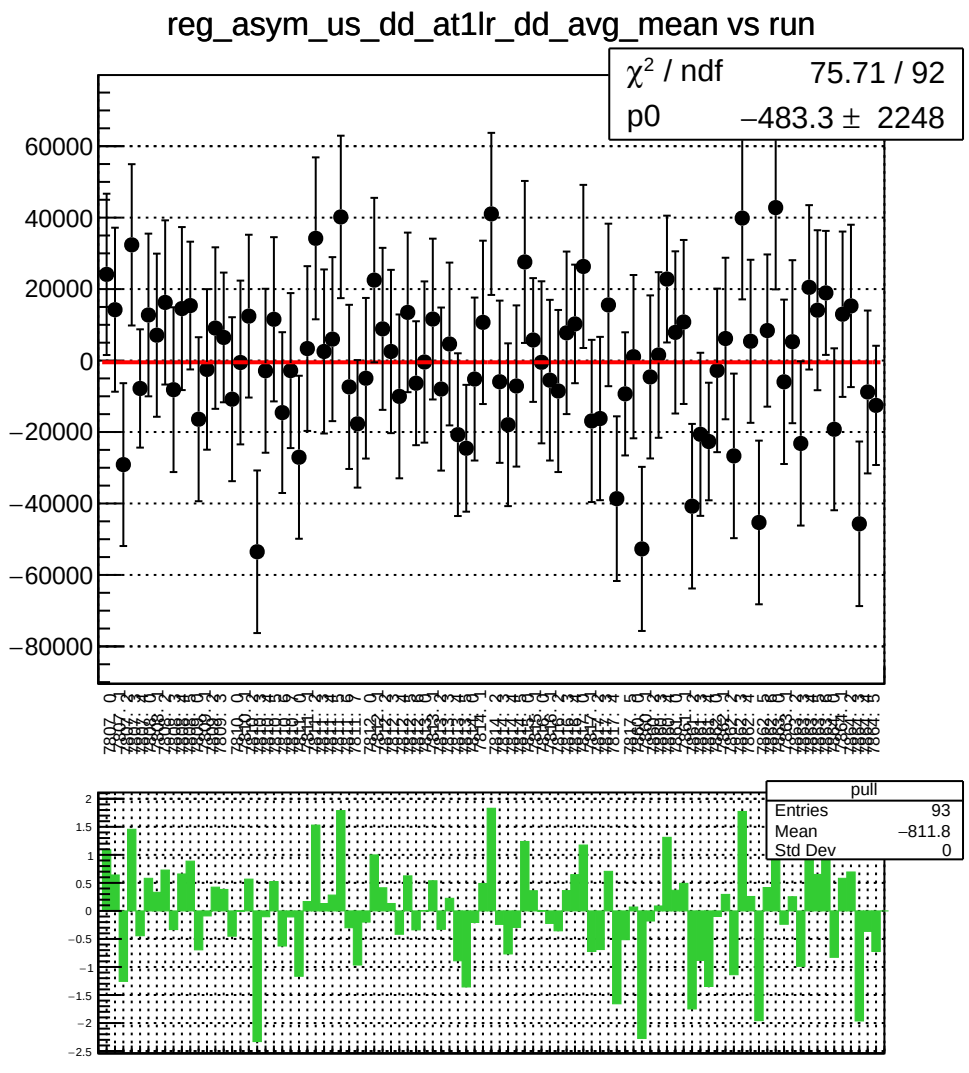

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.14 / 92
p0 −0.06725 ± 0.1946
pull
Entries 93
Mean −190.3
Std Dev 0
pull1D
Entries 93
Mean 0.0106
Std Dev 0.9454

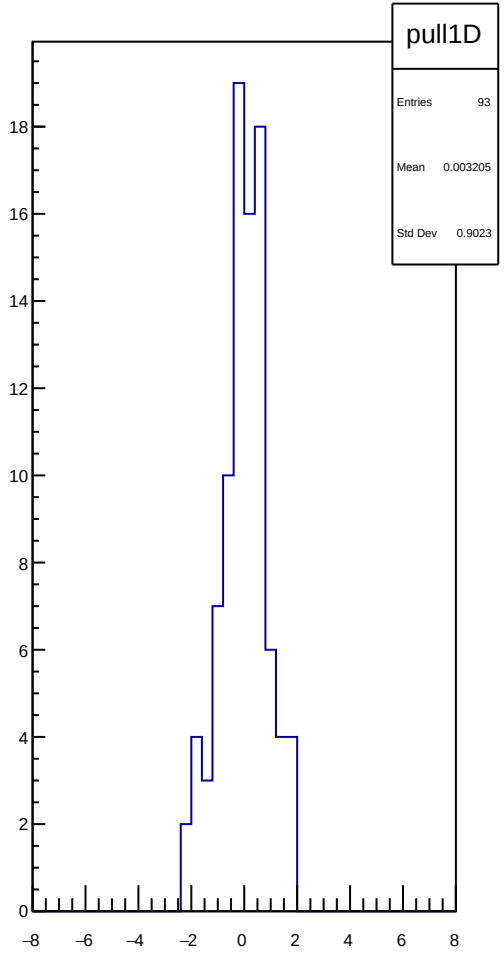

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.251e+04 / 92
p0 186.1 ± 0.1376
260
240
220
200
180
160
140

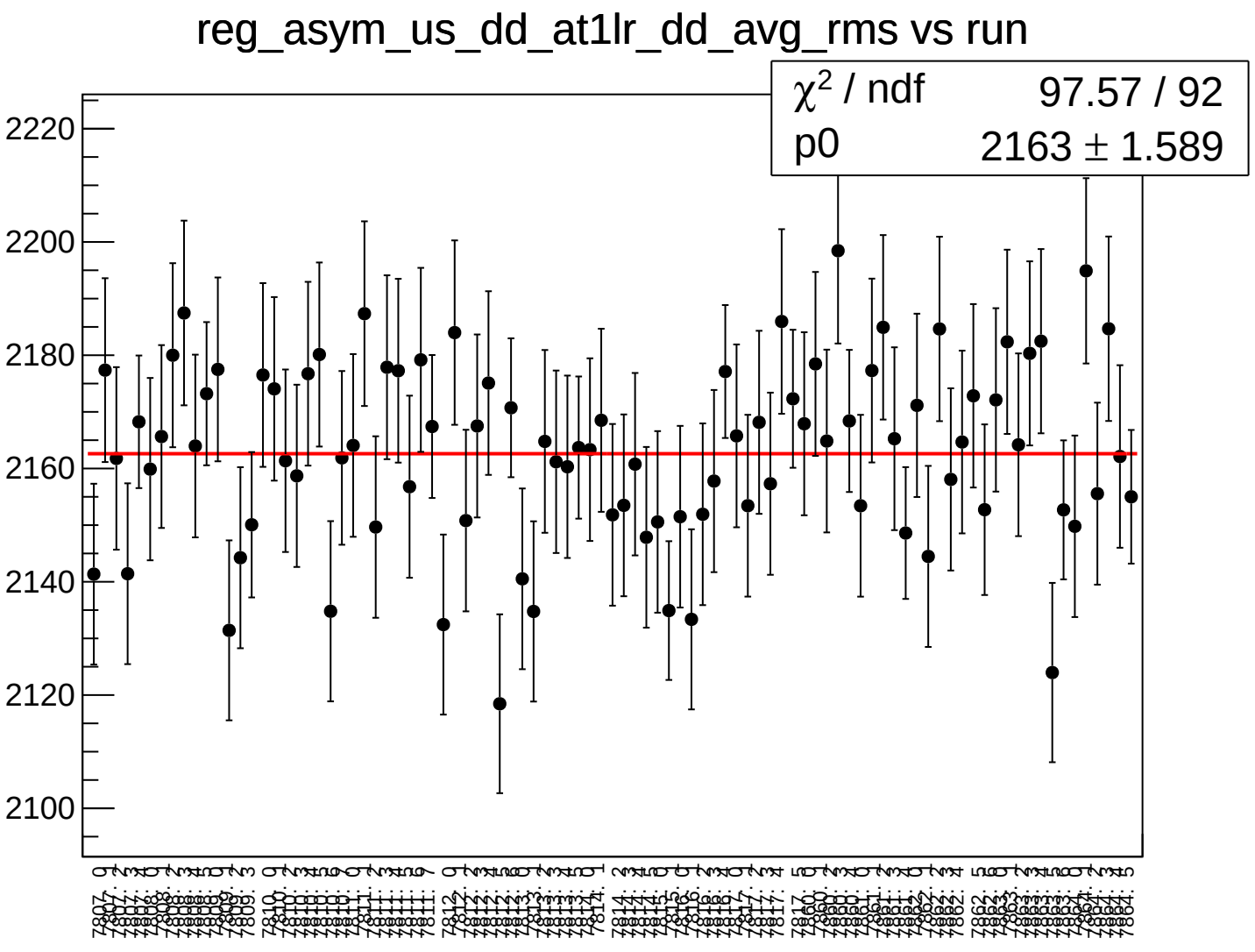

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.09 / 92
p0 −1.488e−13 ± 4.286e−13
pull
Entries 93
Mean 54.14
Std Dev 32.08

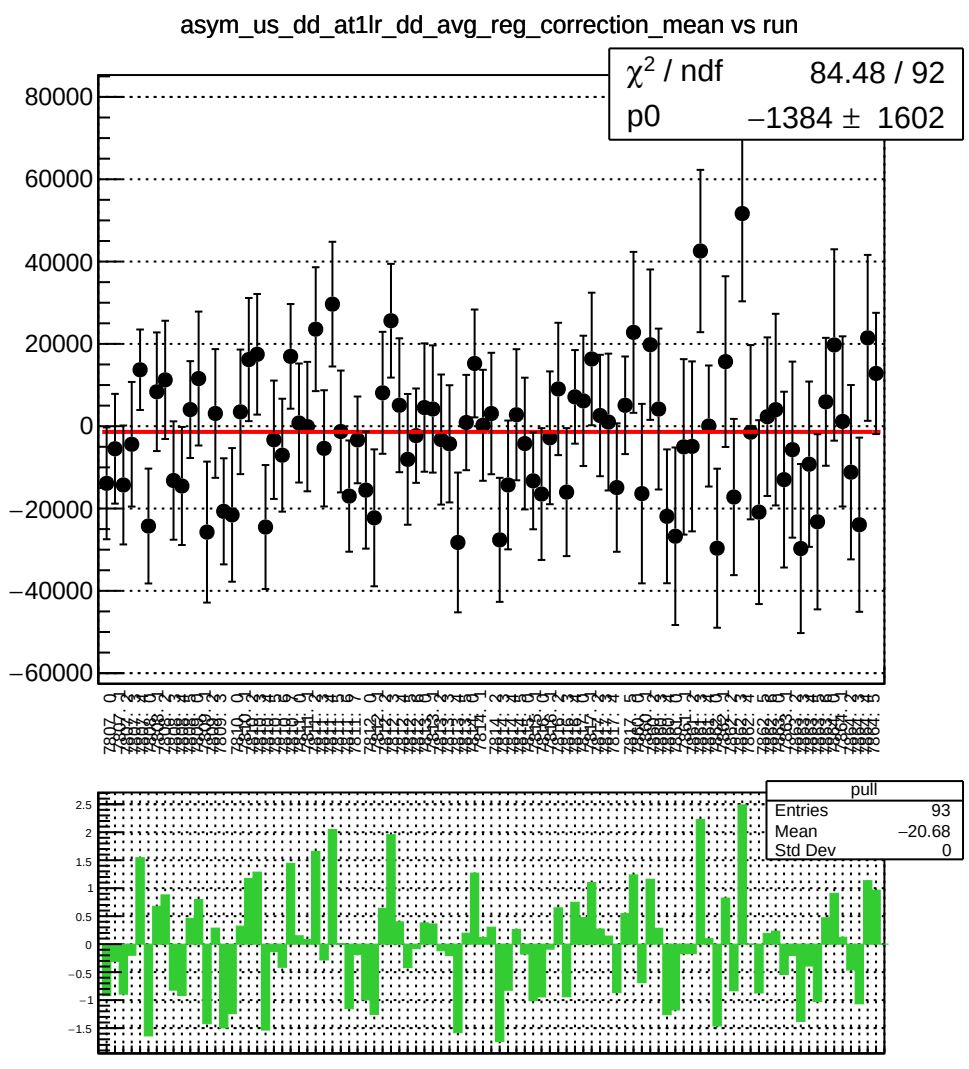

pull1D
Entries 93
Mean −0.1563
Std Dev 0.9662

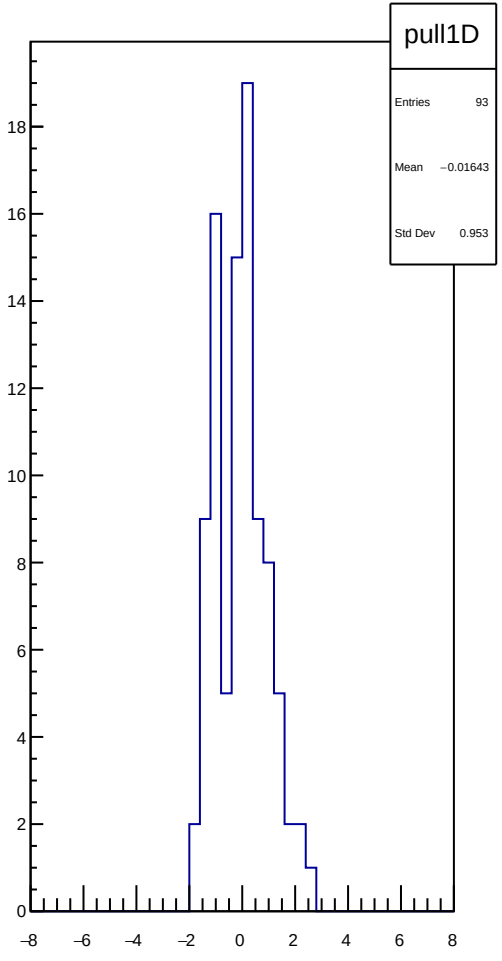

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
2.5
2
1.5
1
0.5
χ² / ndf 1.075e+06 / 92
p0 2.672e−10 ± 3.031e−13

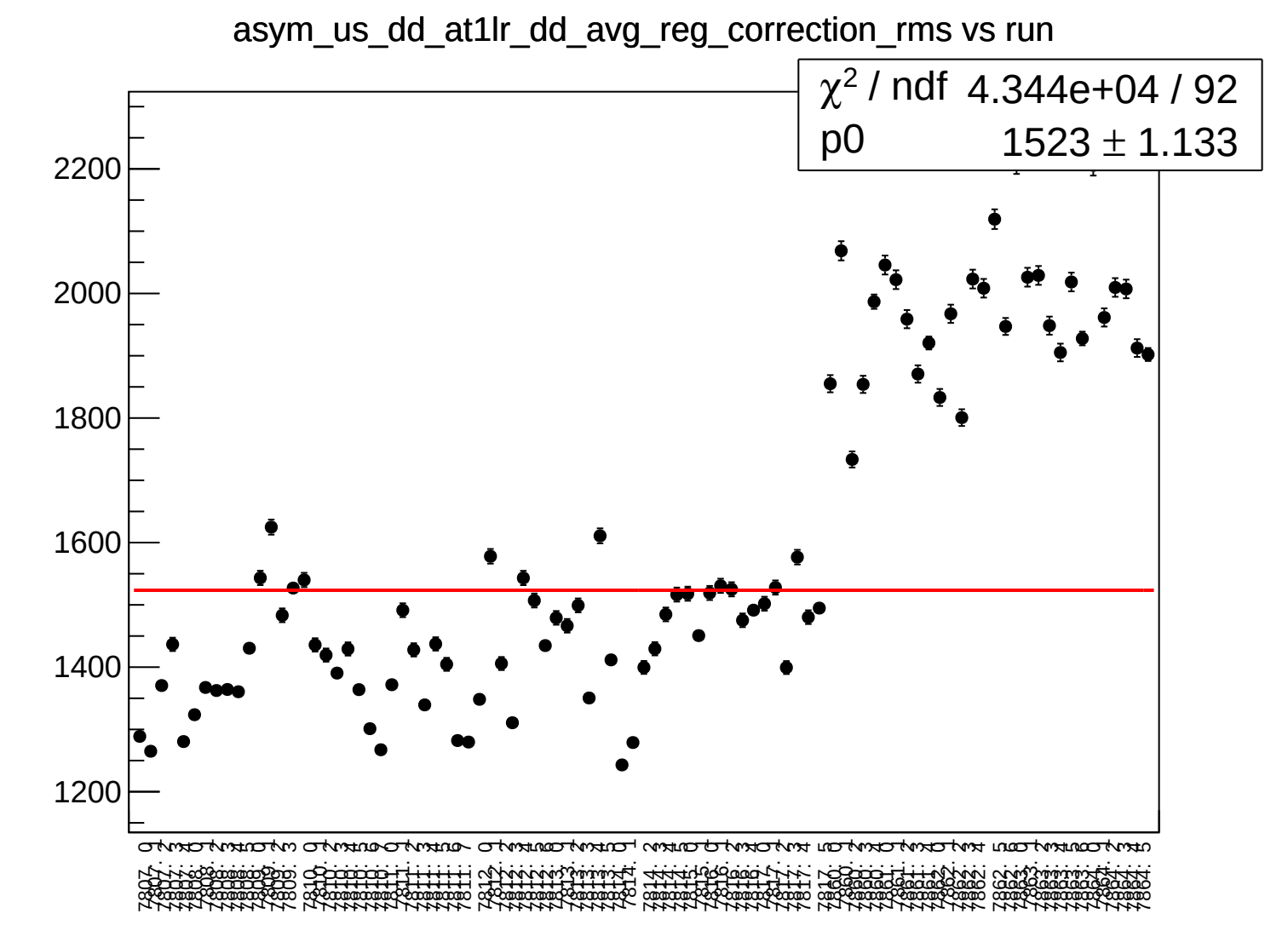

reg_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 75.71 / 92
p0 −483.3 ± 2248
pull
Entries 93
Mean −811.8
Std Dev 0

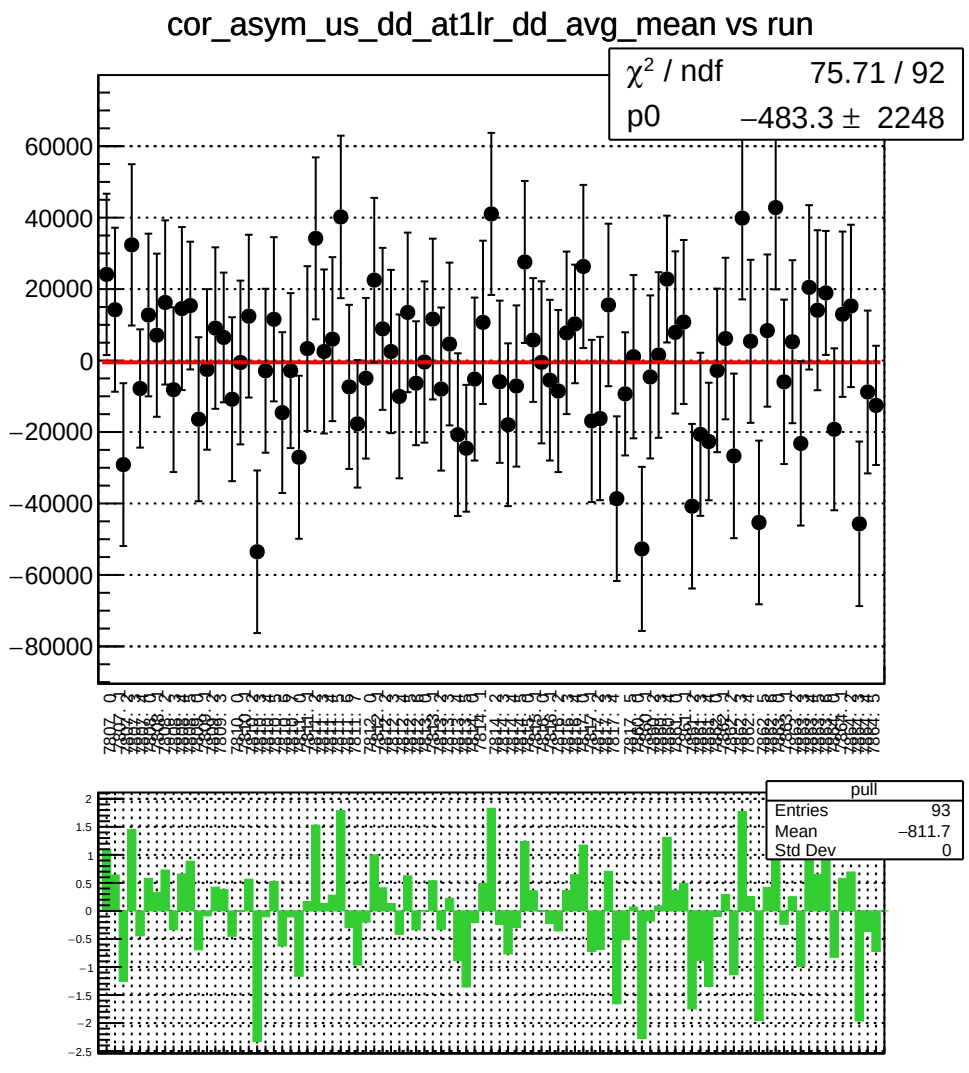

pull1D
Entries 93
Mean 0.003205
Std Dev 0.9023

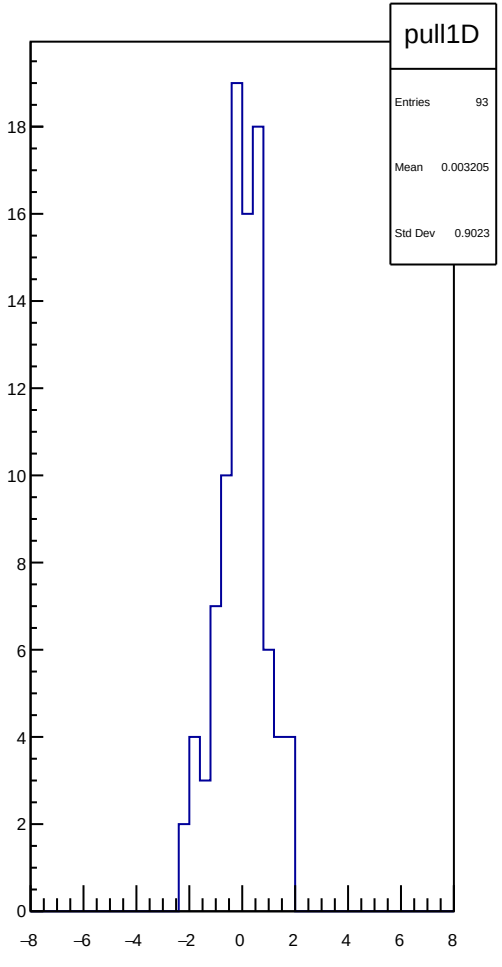

reg_asym_us_dd_at1lr_dd_avg_rms vs run
χ^2 / ndf 97.57 / 92
p0 2163 ± 1.589
2220
2200
2180
2160
2140
2120
2100

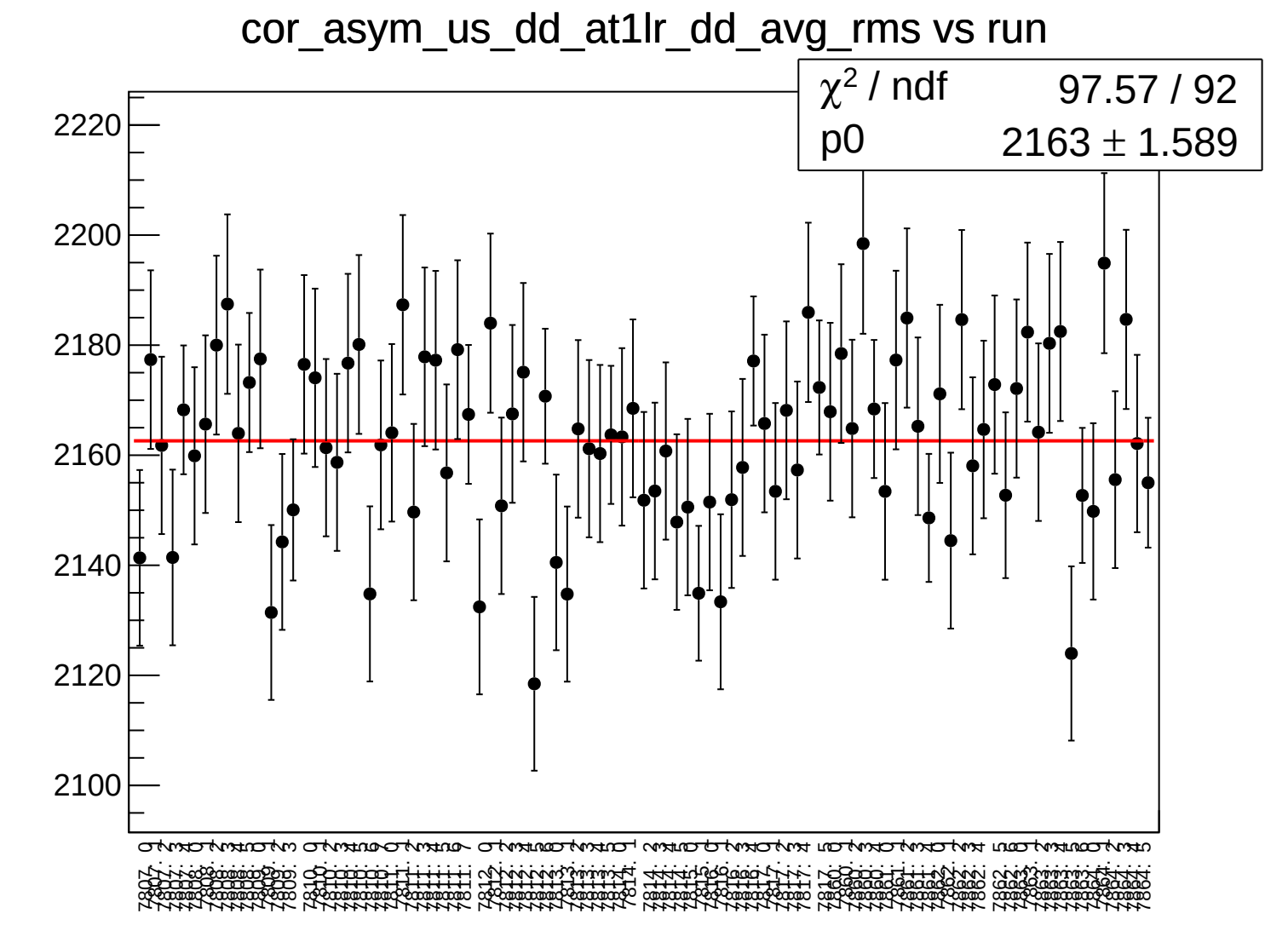

asym_us_dd_at1lr_dd_avg_reg_correction_mean vs run
χ² / ndf 84.48 / 92
p0 −1384 ± 1602
pull
Entries 93
Mean −20.68
Std Dev 0

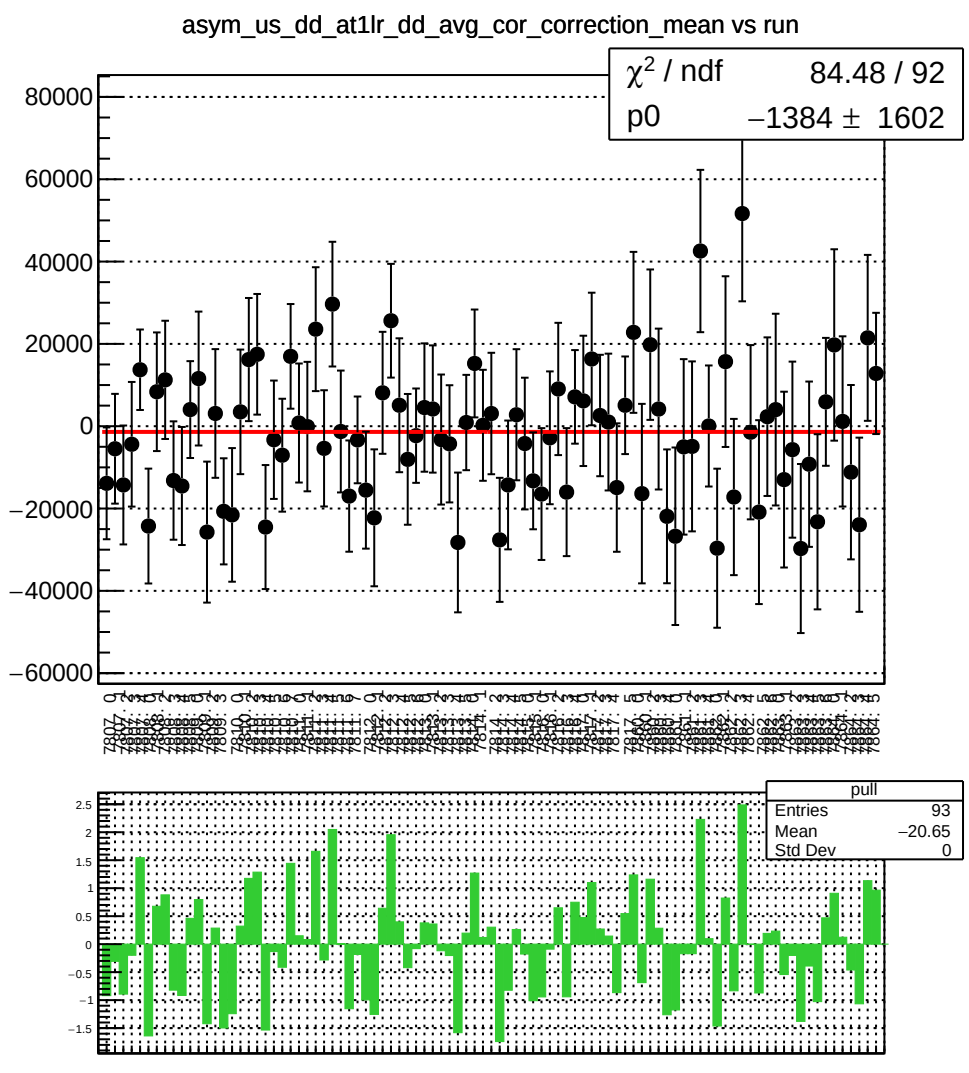

pull1D
Entries 93
Mean −0.01643
Std Dev 0.953

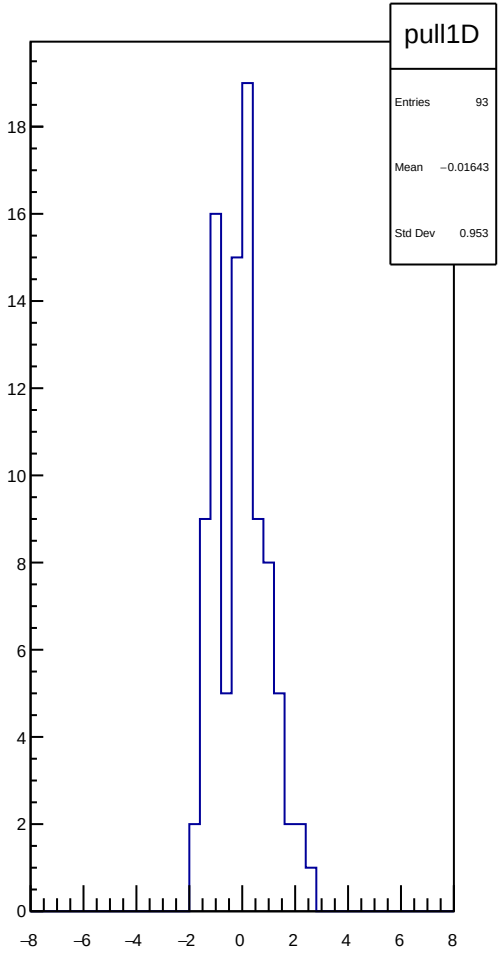

asym_us_dd_at1lr_dd_avg_reg_correction_rms vs run
χ² / ndf 4.344e+04 / 92
p0 1523 ± 1.133
2200
2000
1800
1600
1400
1200

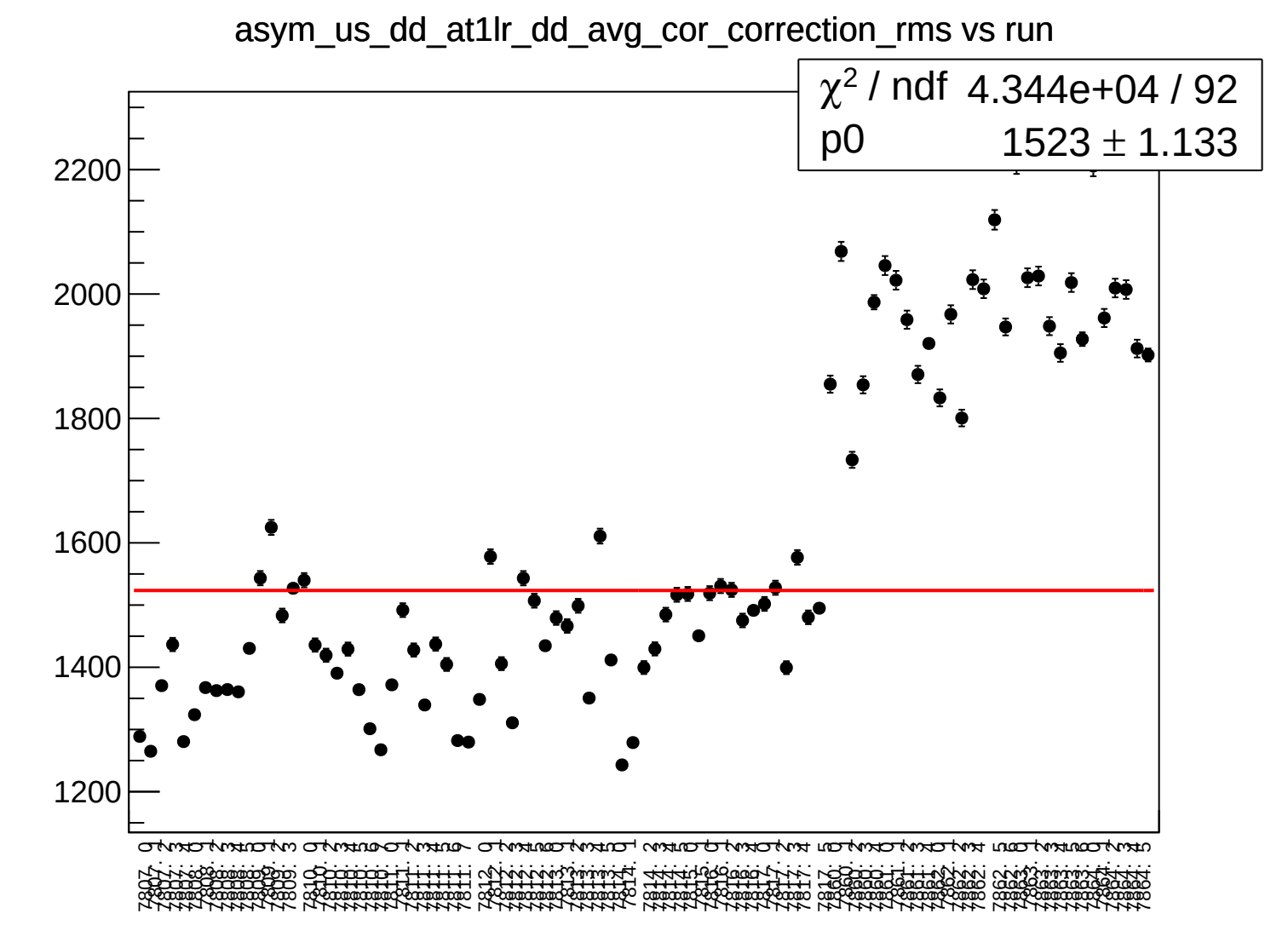

cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 75.71 / 92
p0 −483.3 ± 2248
pull
Entries 93
Mean −811.7
Std Dev 0

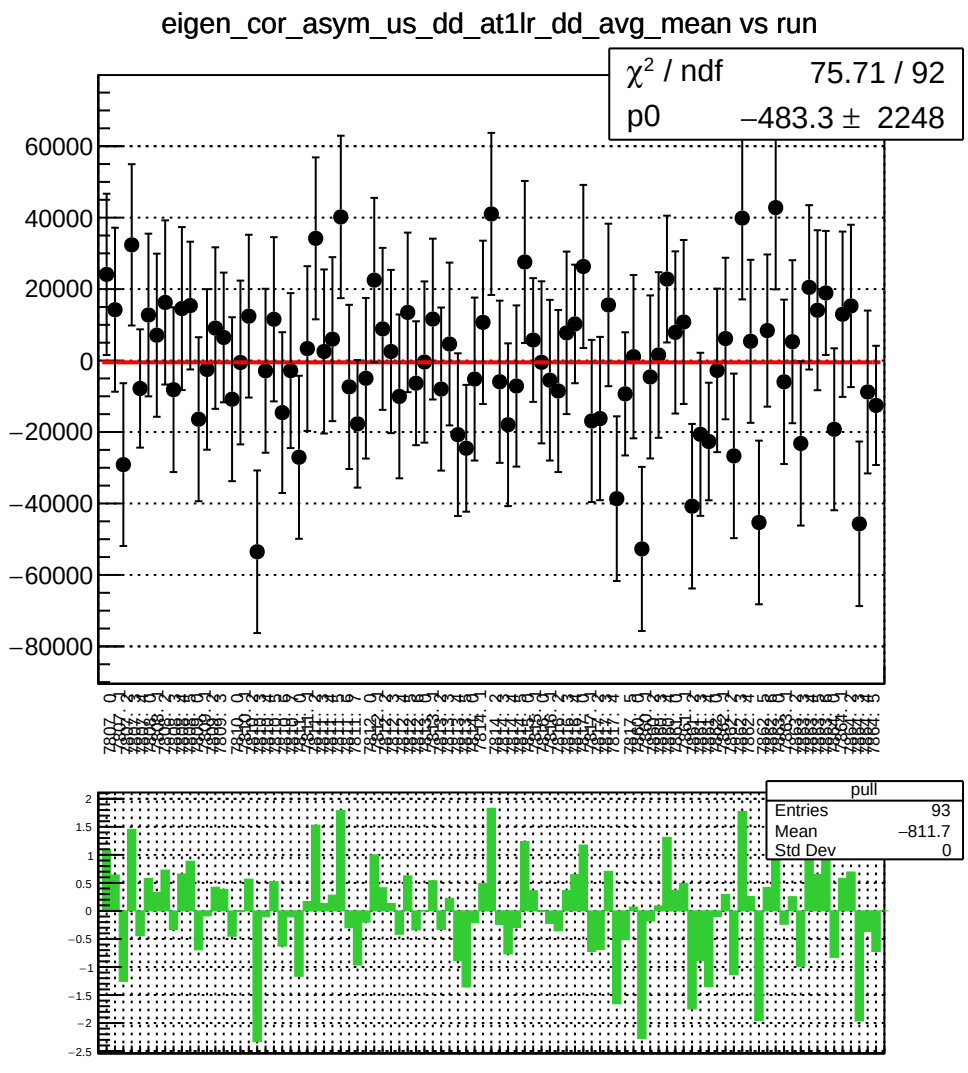

pull1D
Entries 93
Mean 0.003205
Std Dev 0.9023

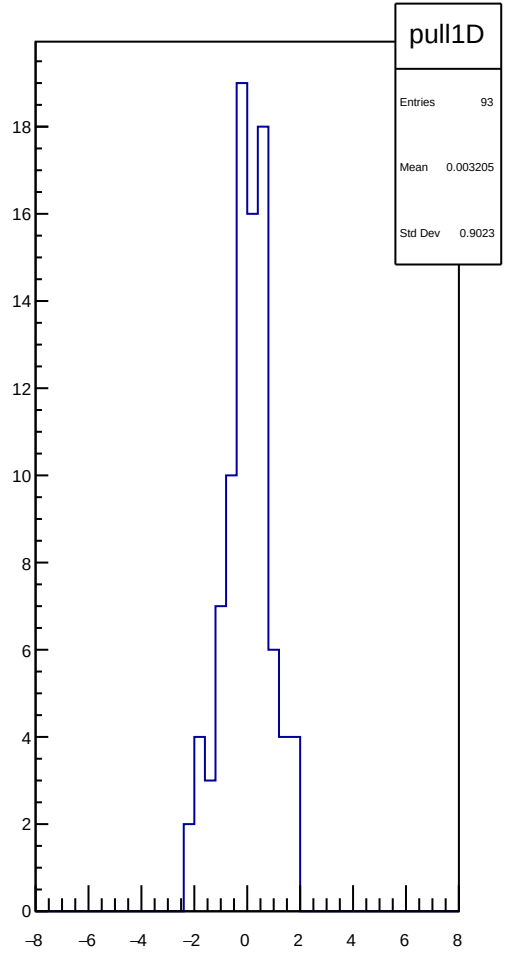

cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 97.57 / 92
p0 2163 ± 1.589
2220
2200
2180
2160
2140
2120
2100

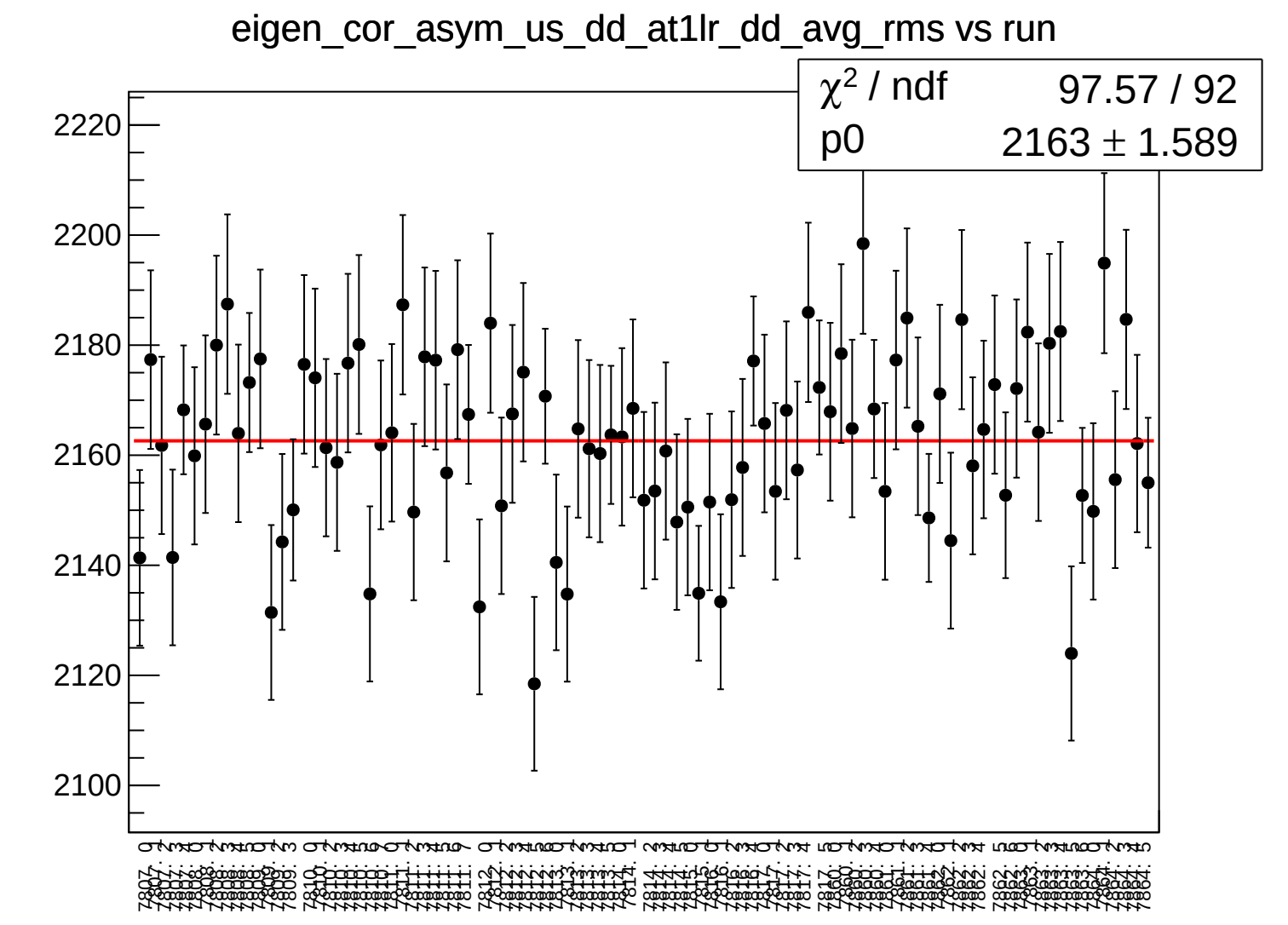

asym_us_dd_at1lr_dd_avg_cor_correction_mean vs run
χ² / ndf 84.48 / 92
p0 −1384 ± 1602
pull
Entries 93
Mean −20.65
Std Dev 0

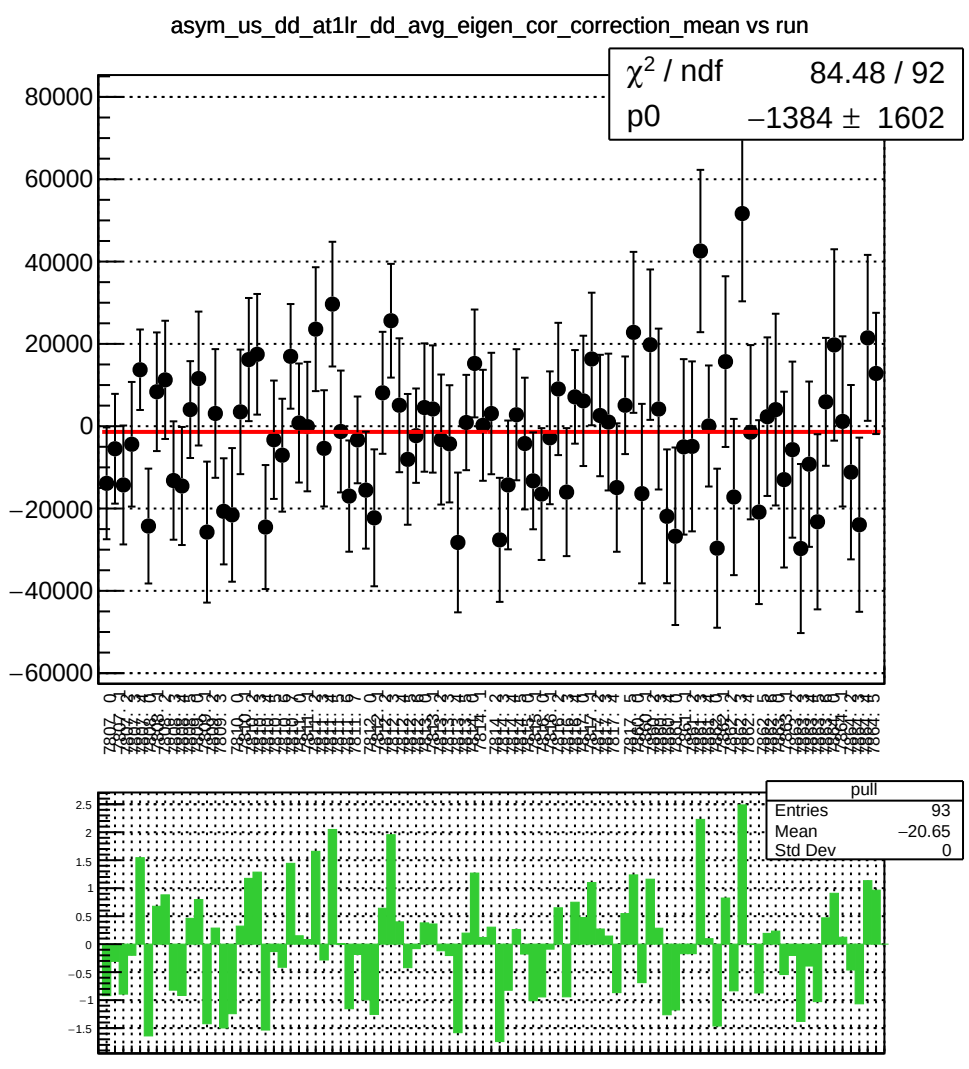

pull1D
Entries 93
Mean −0.01643
Std Dev 0.953

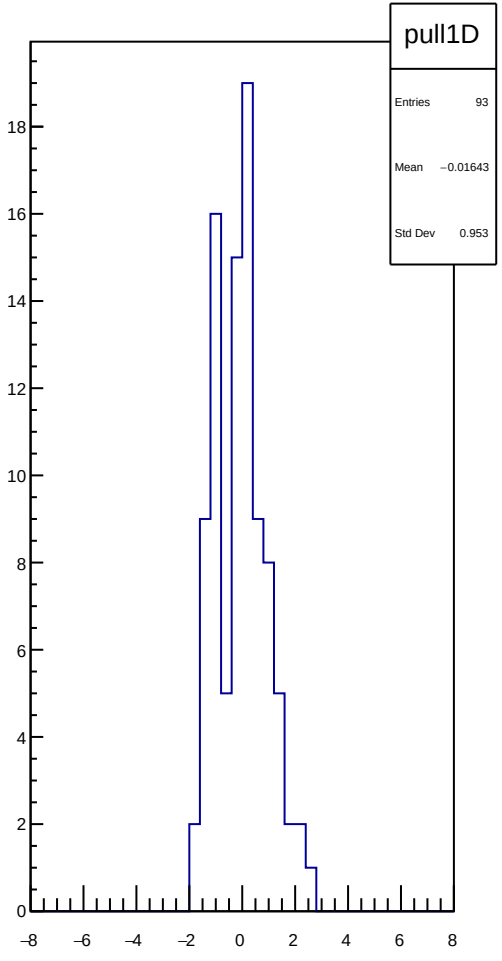

asym_us_dd_at1lr_dd_avg_cor_correction_rms vs run
χ² / ndf 4.344e+04 / 92
p0 1523 ± 1.133
2200
2000
1800
1600
1400
1200

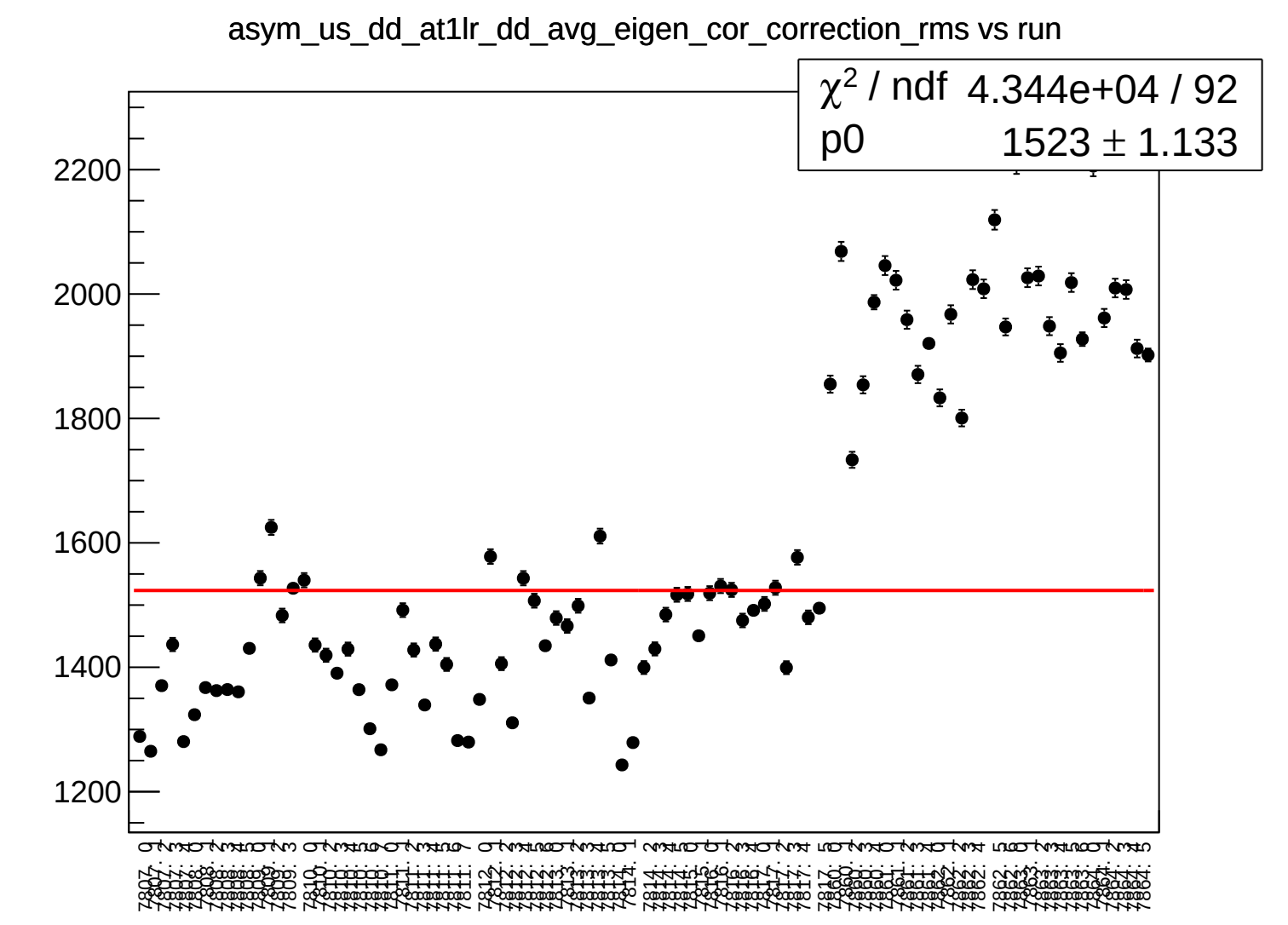

eigen_cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 75.71 / 92
p0 −483.3 ± 2248
pull
Entries 93
Mean −811.7
Std Dev 0

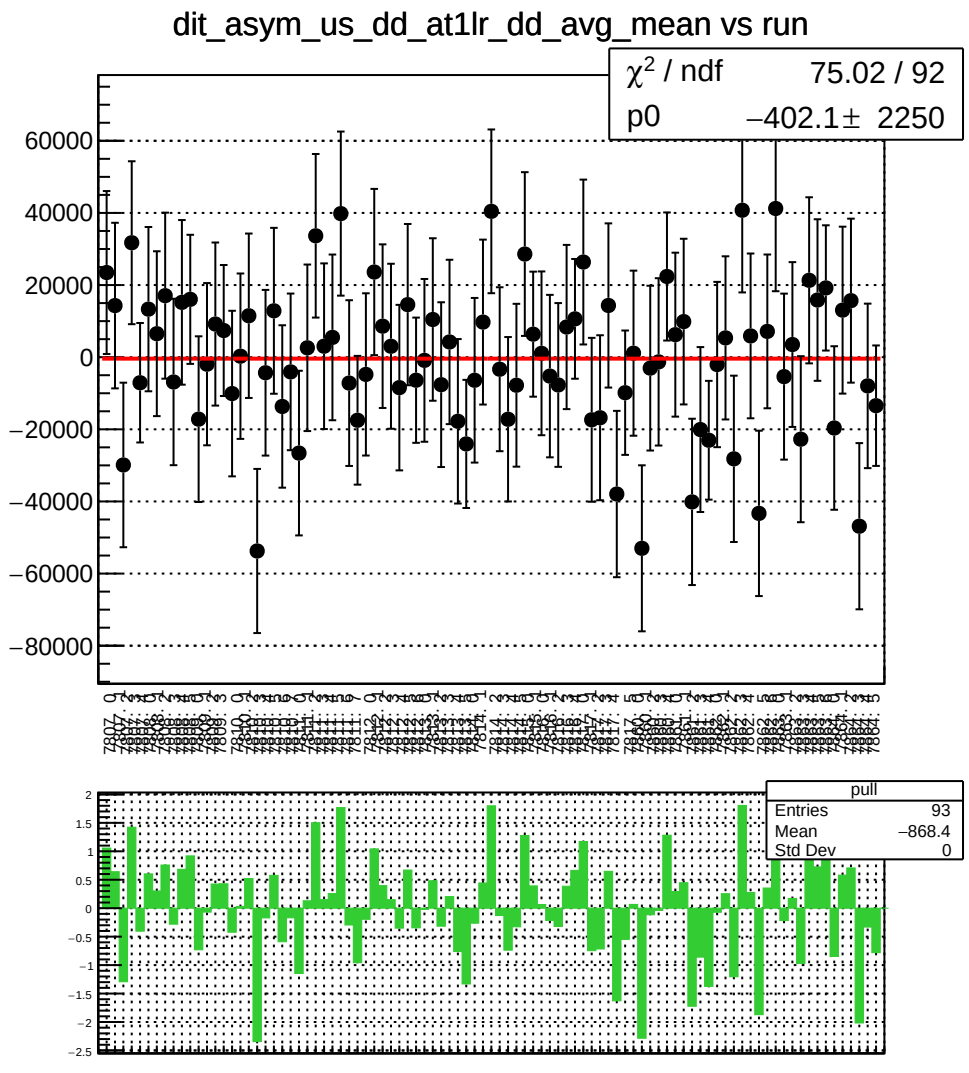

pull1D
Entries 93
Mean 0.003205
Std Dev 0.9023

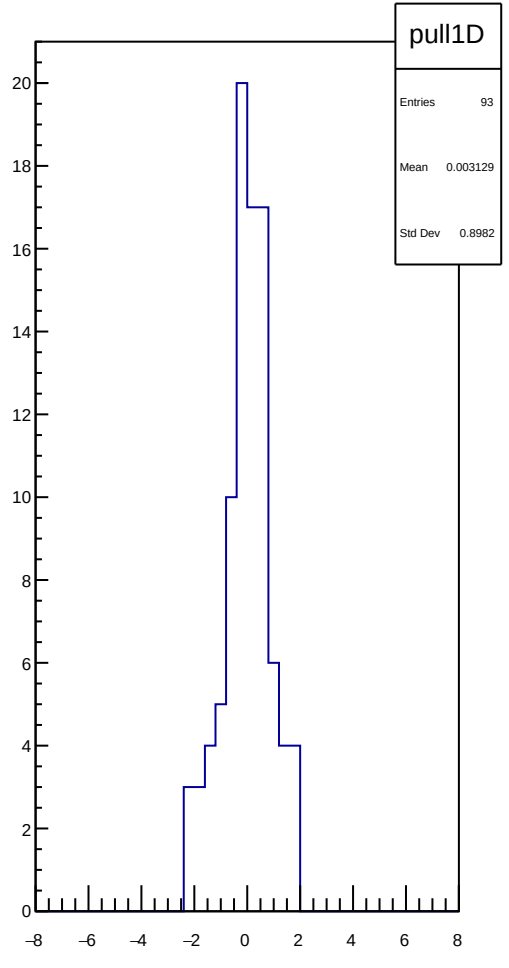

eigen_cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 97.57 / 92
p0 2163 ± 1.589
2220
2200
2180
2160
2140
2120
2100

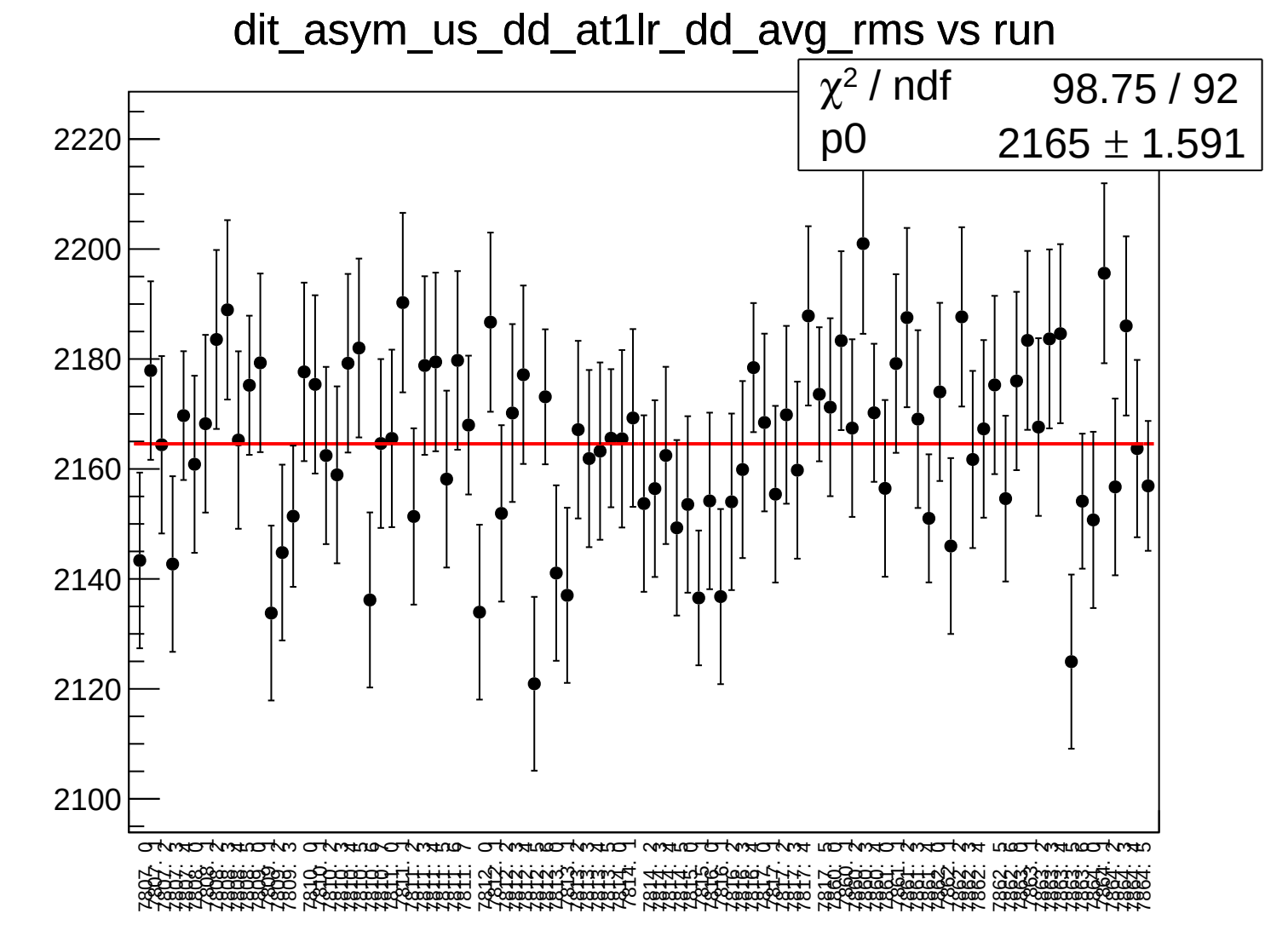

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 84.48 / 92
p0 −1384 ± 1602
pull
Entries 93
Mean −20.65
Std Dev 0

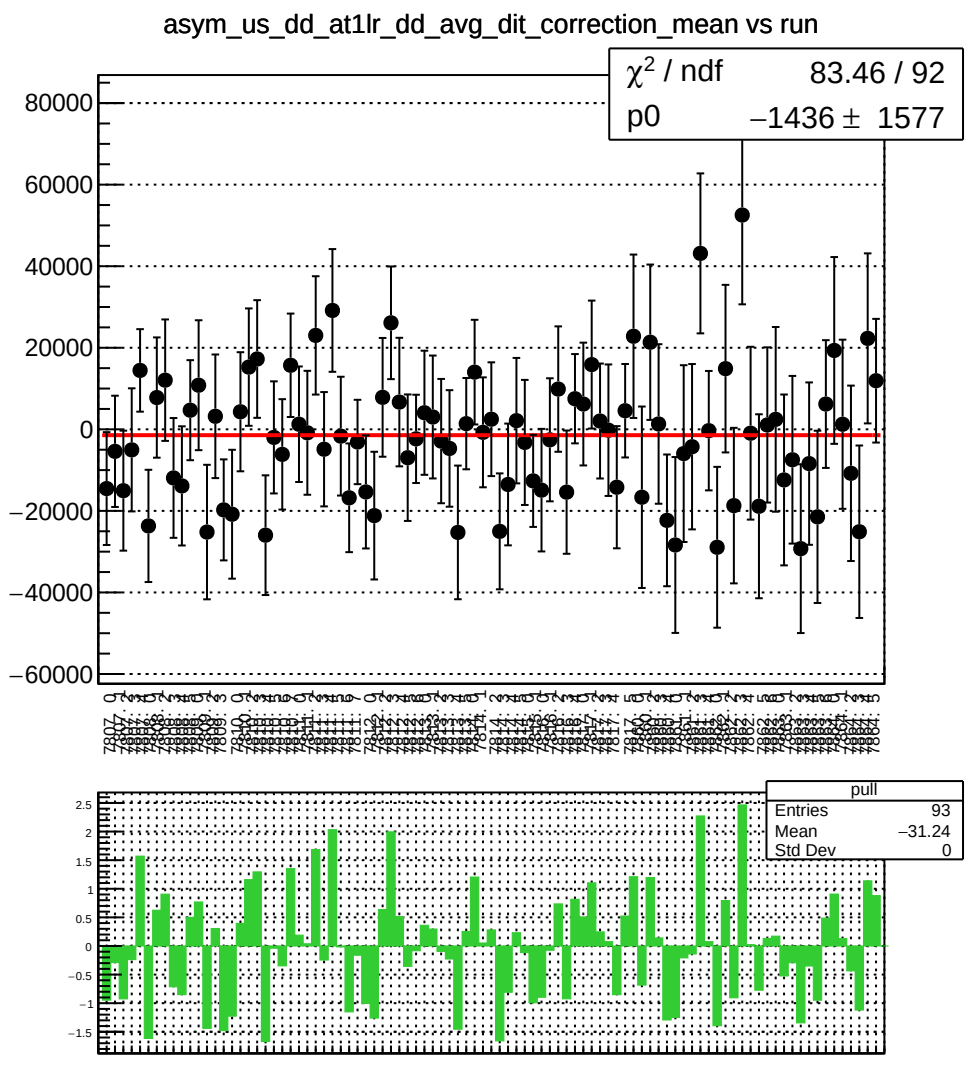

pull1D
Entries 93
Mean −0.01643
Std Dev 0.953

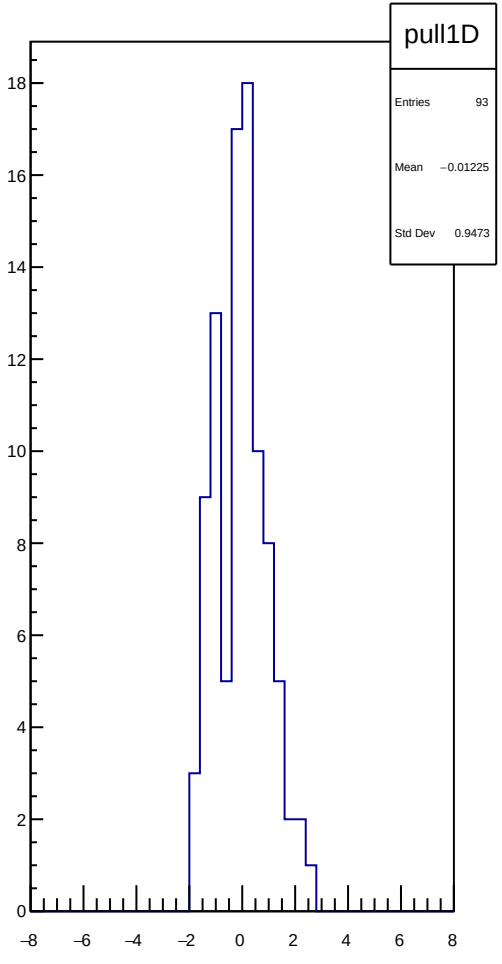

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 4.344e+04 / 92
p0 1523 ± 1.133
2200
2000
1800
1600
1400
1200

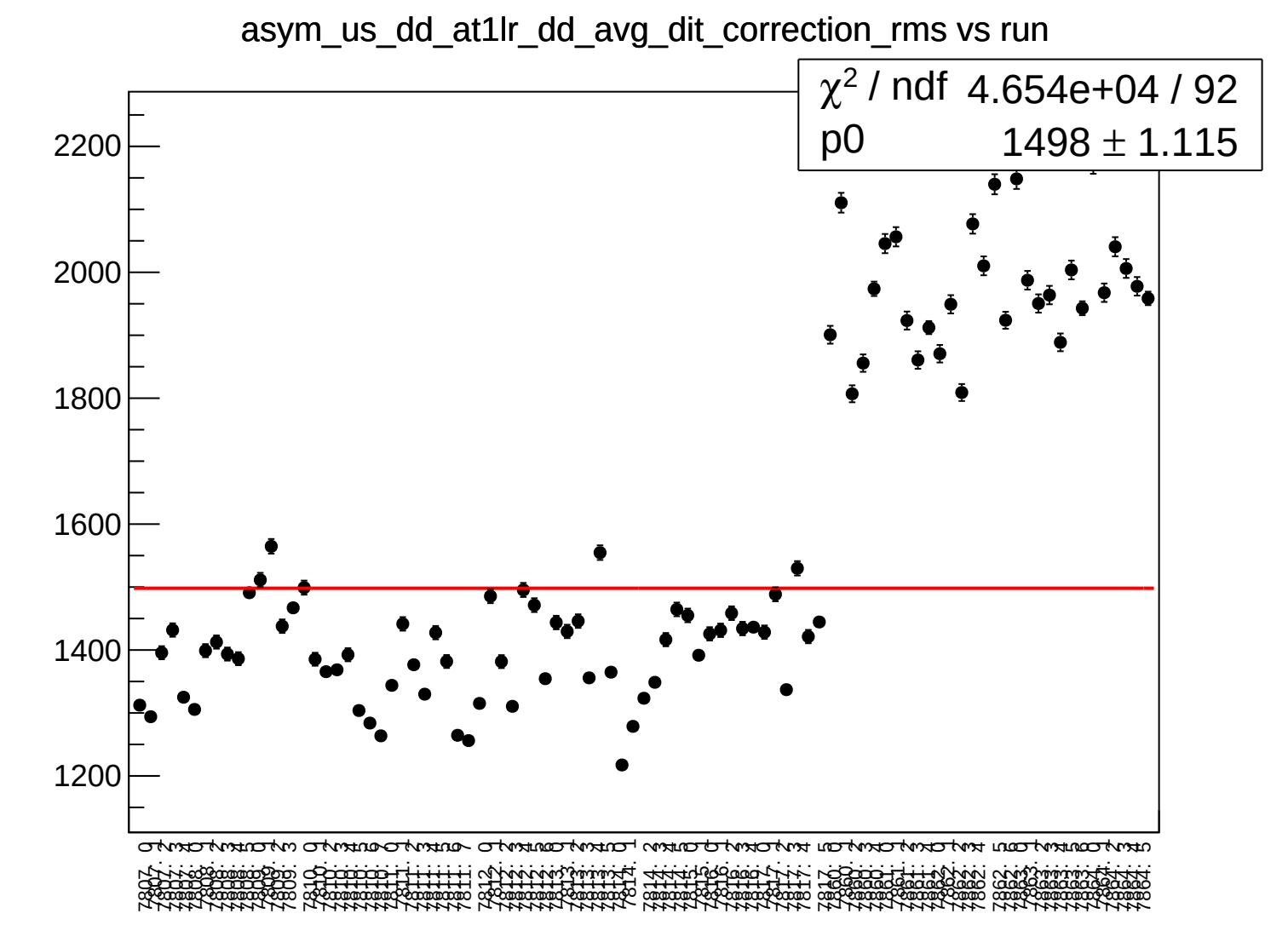

dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 75.02 / 92
p0 −402.1± 2250
pull
Entries 93
Mean −868.4
Std Dev 0

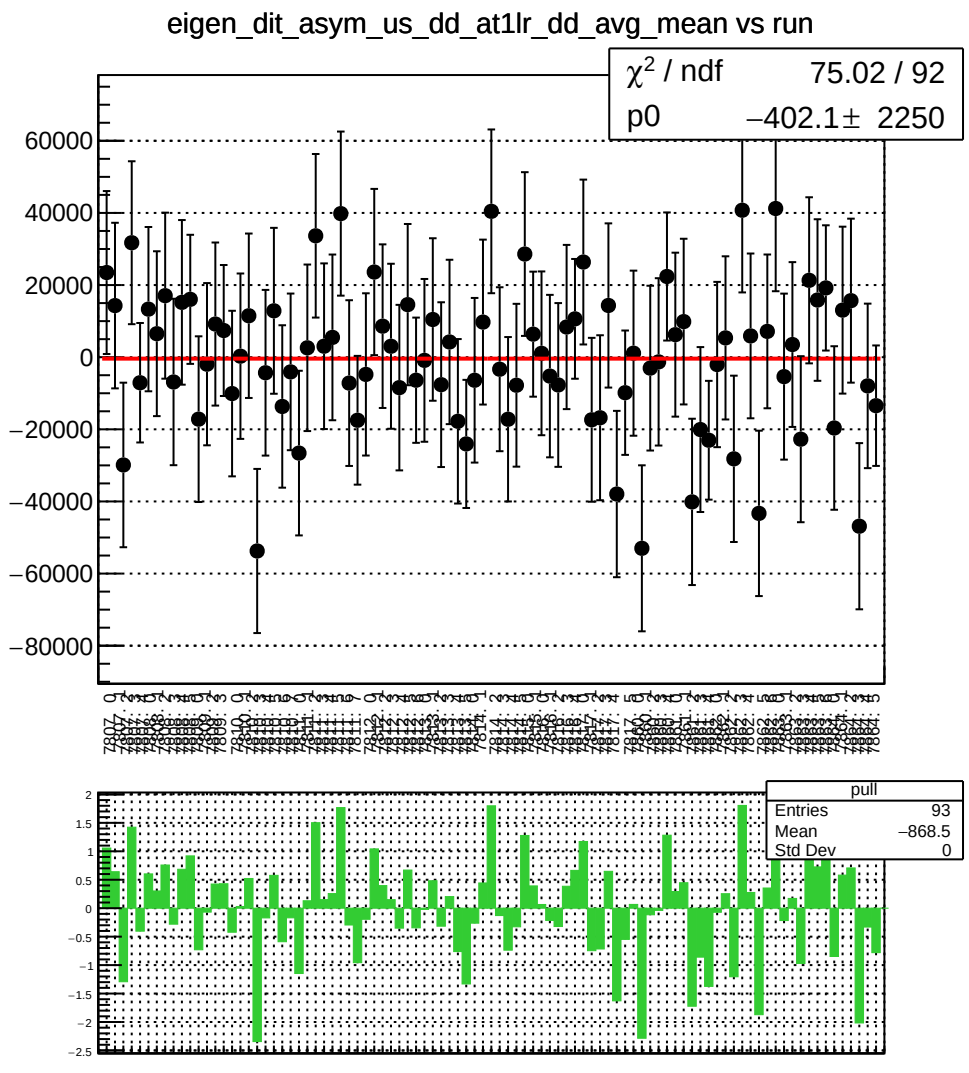

pull1D
Entries 93
Mean 0.003129
Std Dev 0.8982

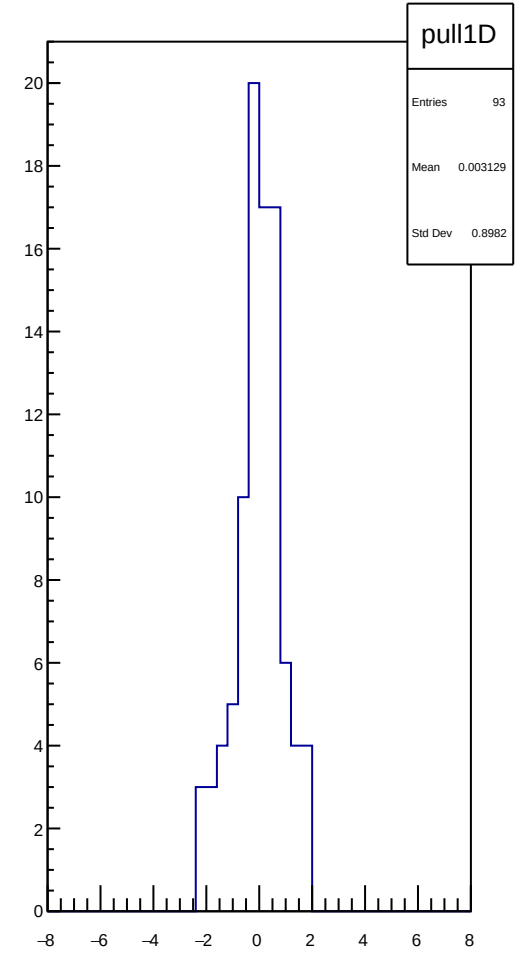

dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 98.75 / 92
p0 2165 ± 1.591
2220
2200
2180
2160
2140
2120
2100

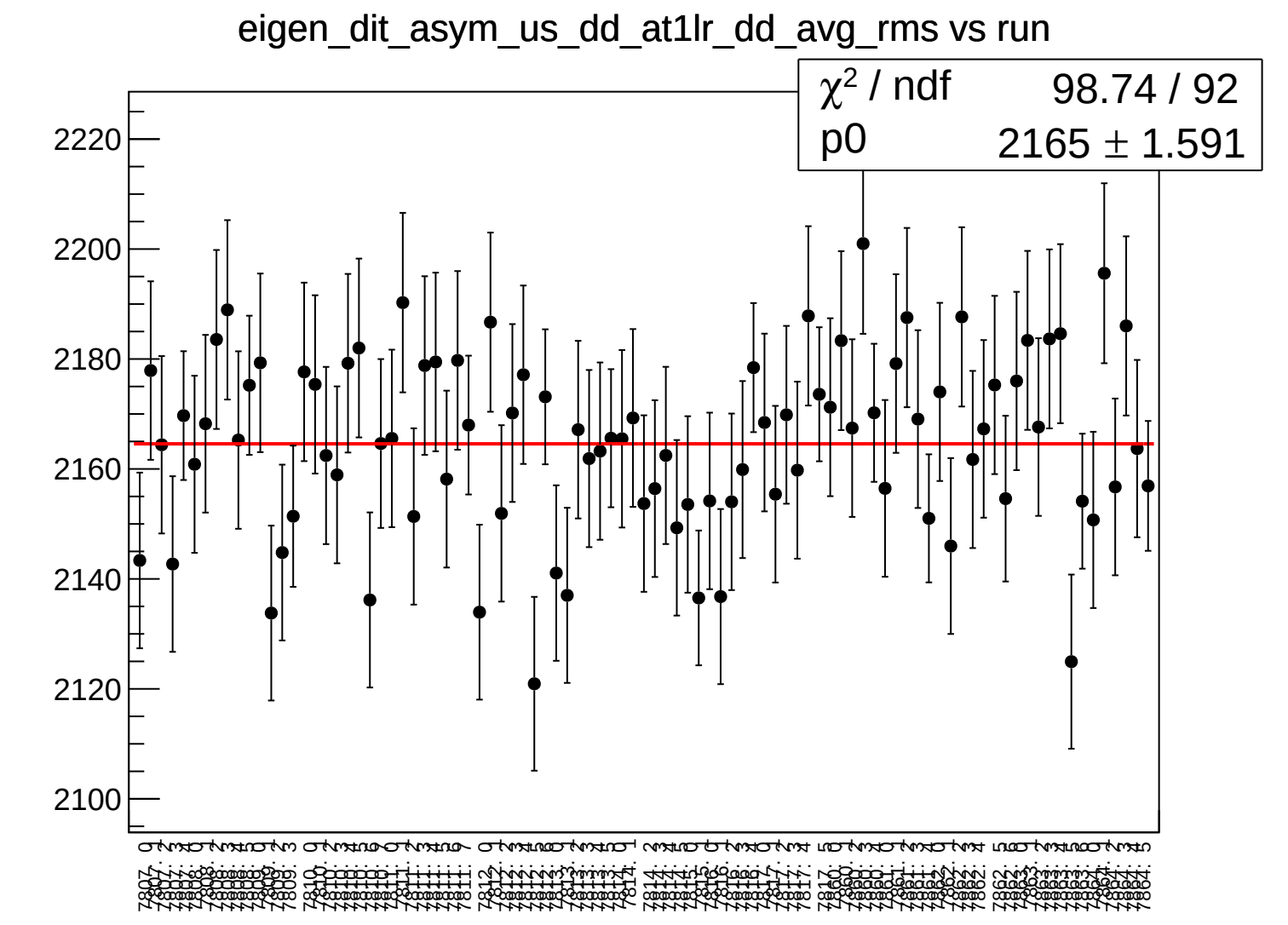

asym_us_dd_at1lr_dd_avg_dit_correction_mean vs run
χ² / ndf 83.46 / 92
p0 −1436 ± 1577
pull
Entries 93
Mean −31.24
Std Dev 0

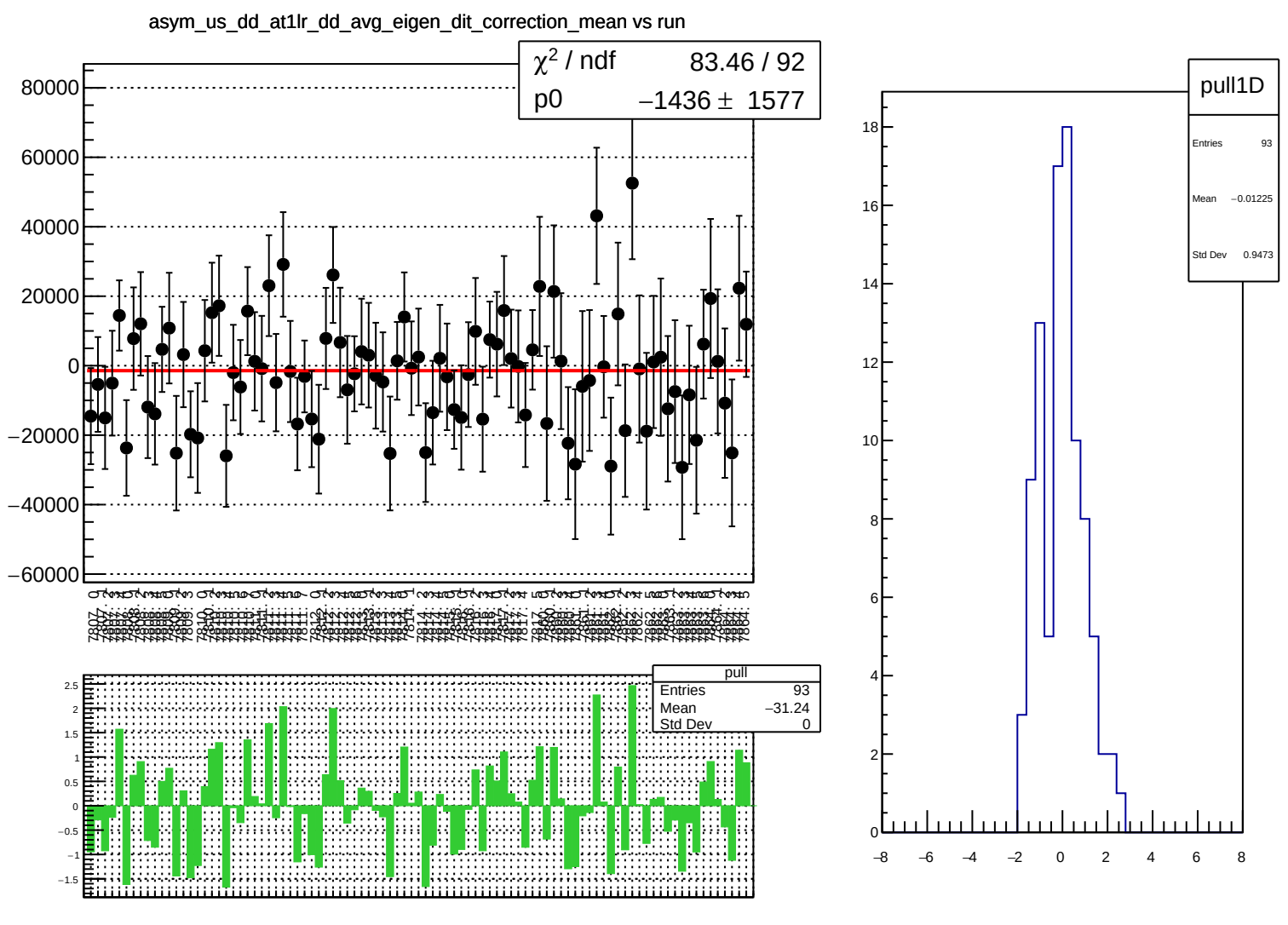

pull1D
Entries 93
Mean −0.01225
Std Dev 0.9473

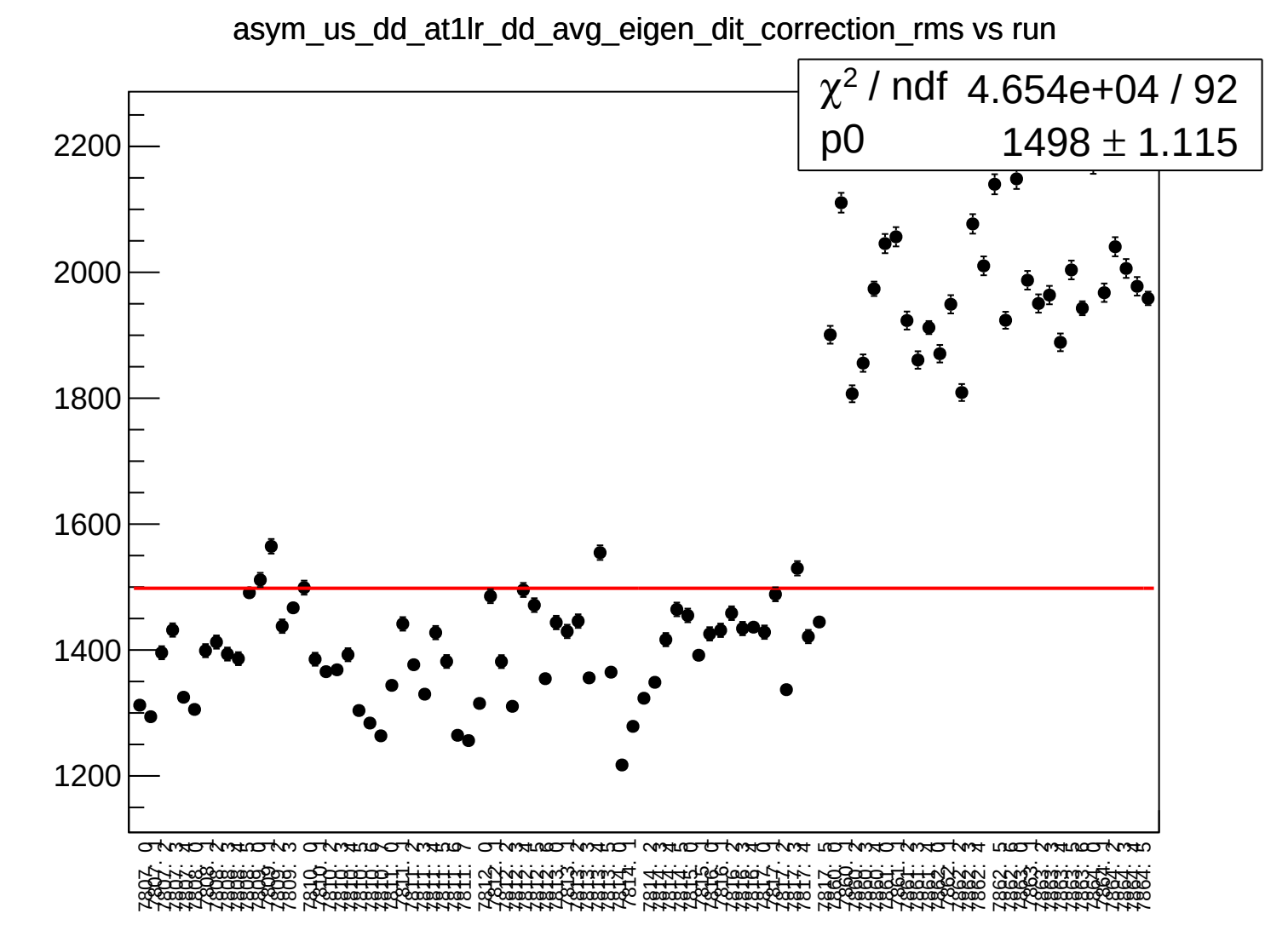

asym_us_dd_at1lr_dd_avg_dit_correction_rms vs run
χ² / ndf 4.654e+04 / 92
p0 1498 ± 1.115
2200
2000
1800
1600
1400
1200

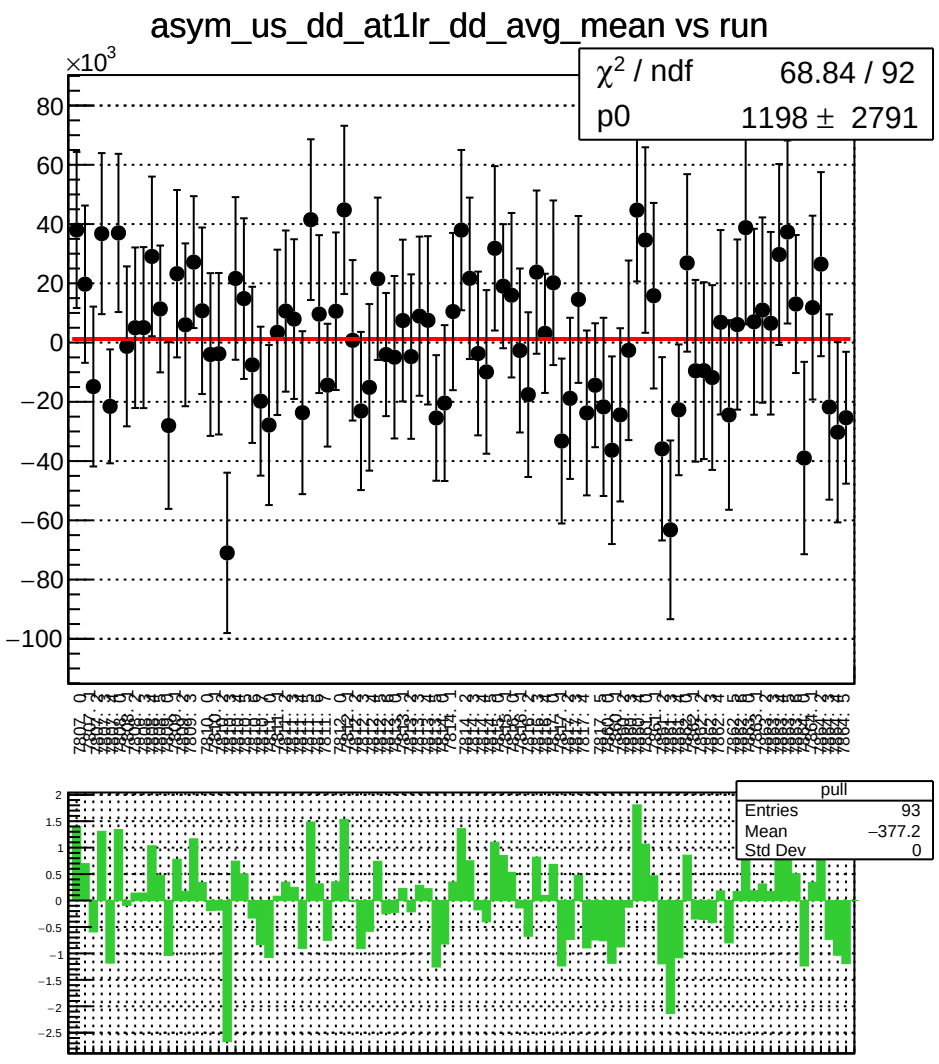

eigen_dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 75.02 / 92
p0 −402.1± 2250
pull
Entries 93
Mean −868.5
Std Dev 0

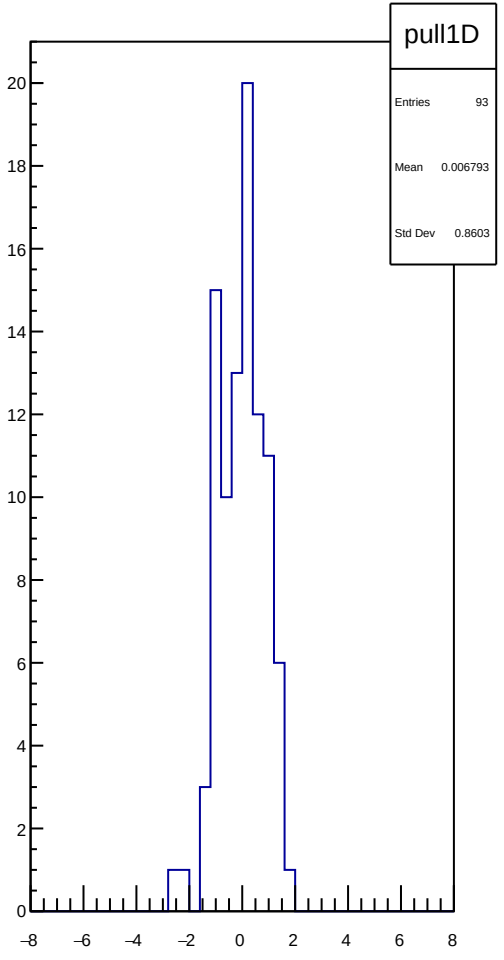

pull1D
Entries 93
Mean 0.003129
Std Dev 0.8982

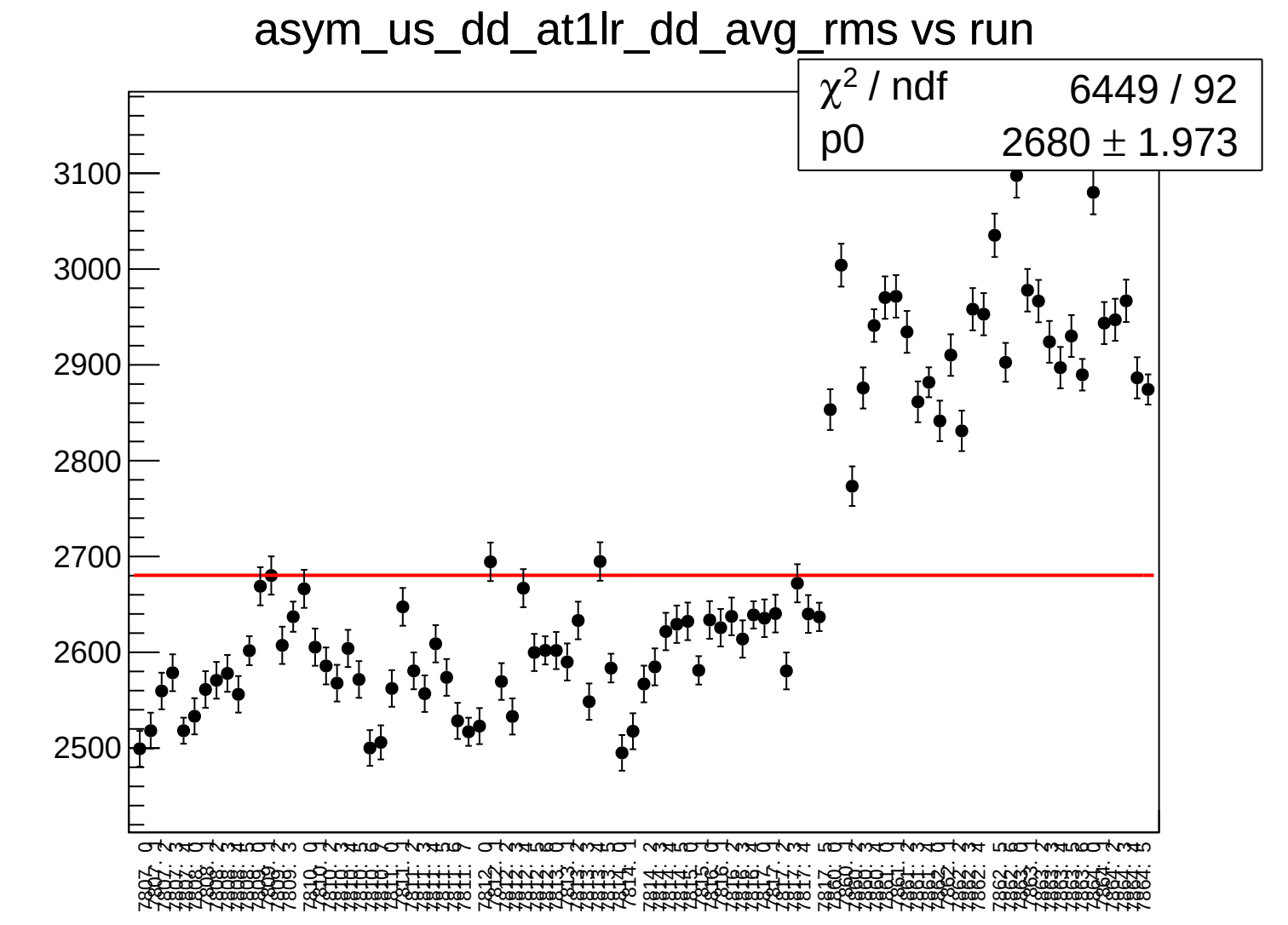

eigen_dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 98.74 / 92
p0 2165 ± 1.591
2220
2200
2180
2160
2140
2120
2100

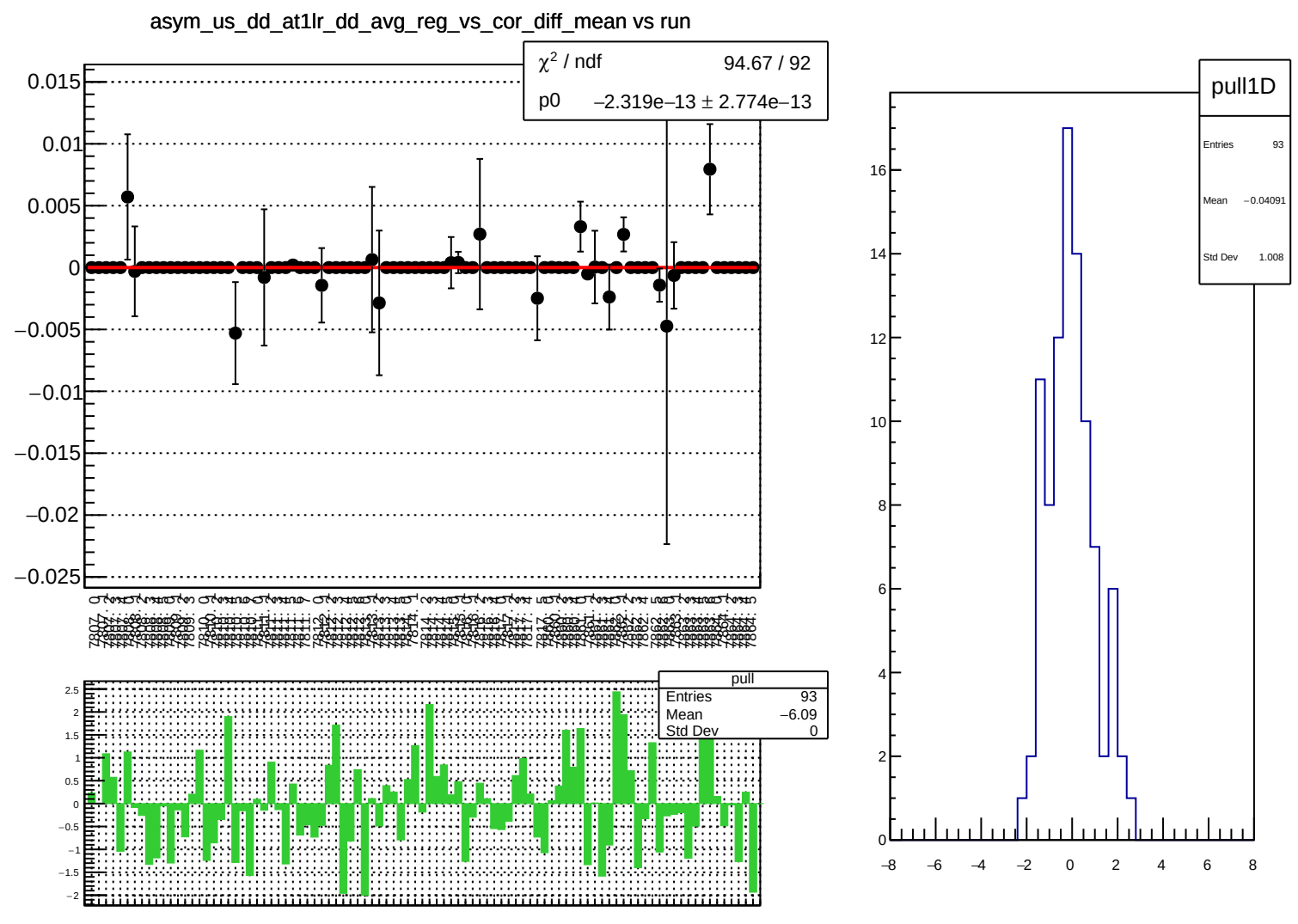

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 83.46 / 92
p0 −1436 ± 1577
pull
Entries 93
Mean −31.24
Std Dev 0
pull1D
Entries 93
Mean −0.01225
Std Dev 0.9473

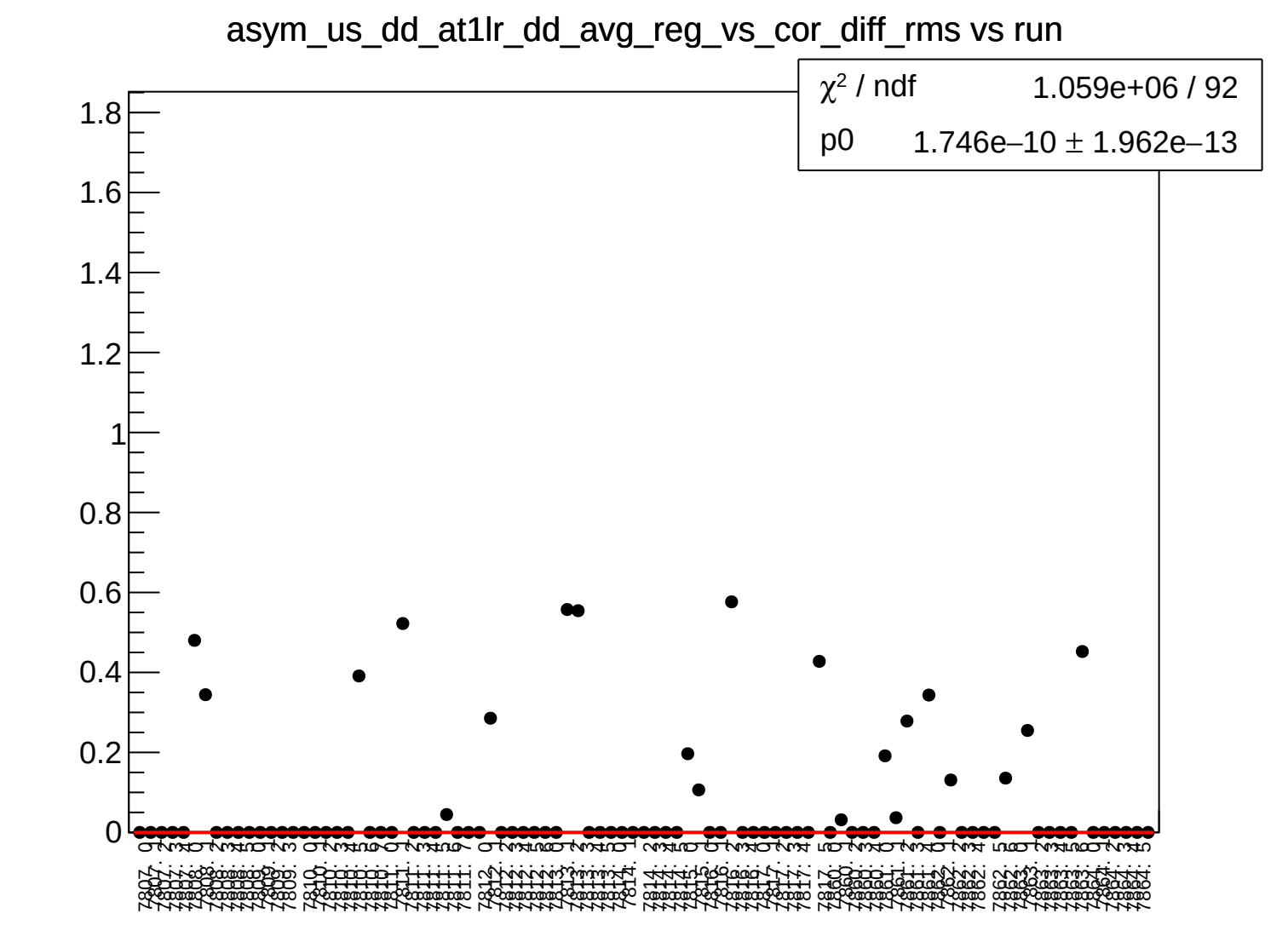

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 4.654e+04 / 92
p0 1498 ± 1.115
2200
2000
1800
1600
1400
1200

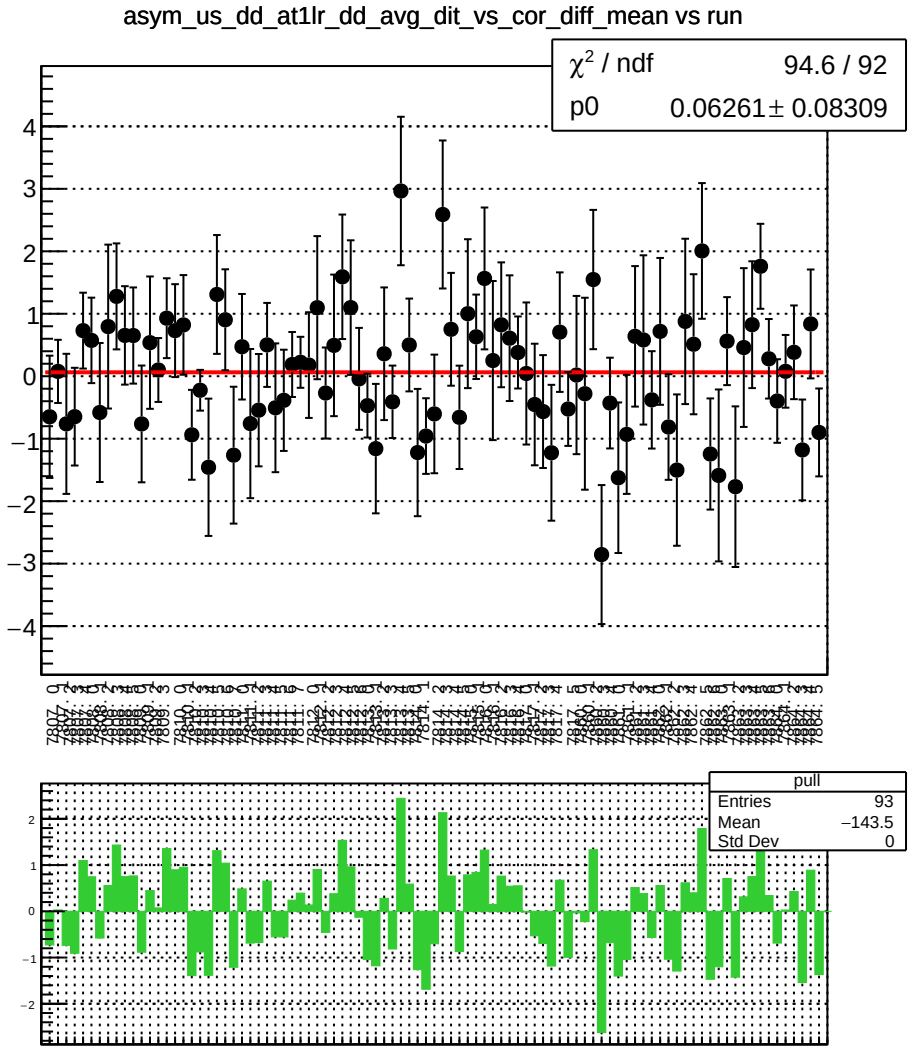

asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 68.84 / 92
p0 1198 ± 2791
pull
Entries 93
Mean −377.2
Std Dev 0

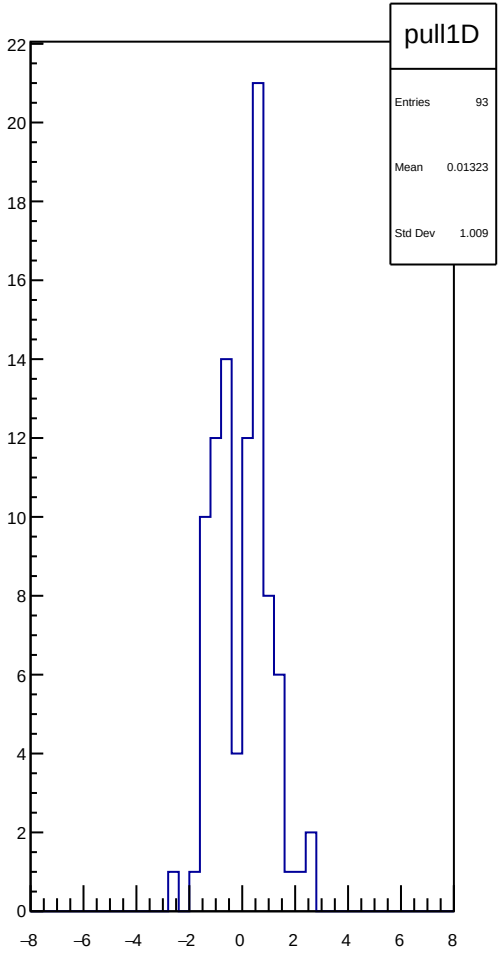

pull1D
Entries 93
Mean 0.006793
Std Dev 0.8603

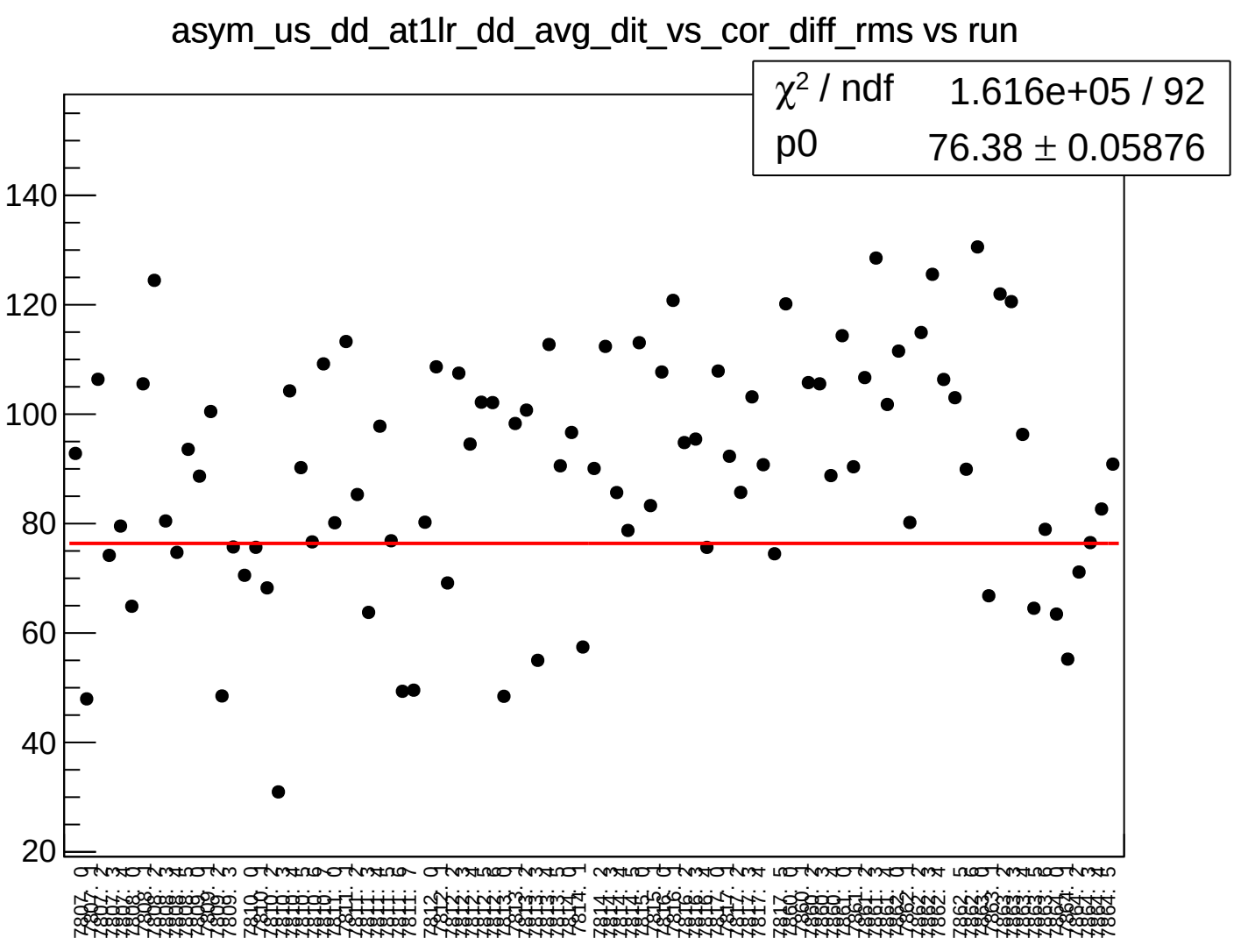

asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 6449 / 92
p0 2680 ± 1.973
3100
3000
2900
2800
2700
2600
2500

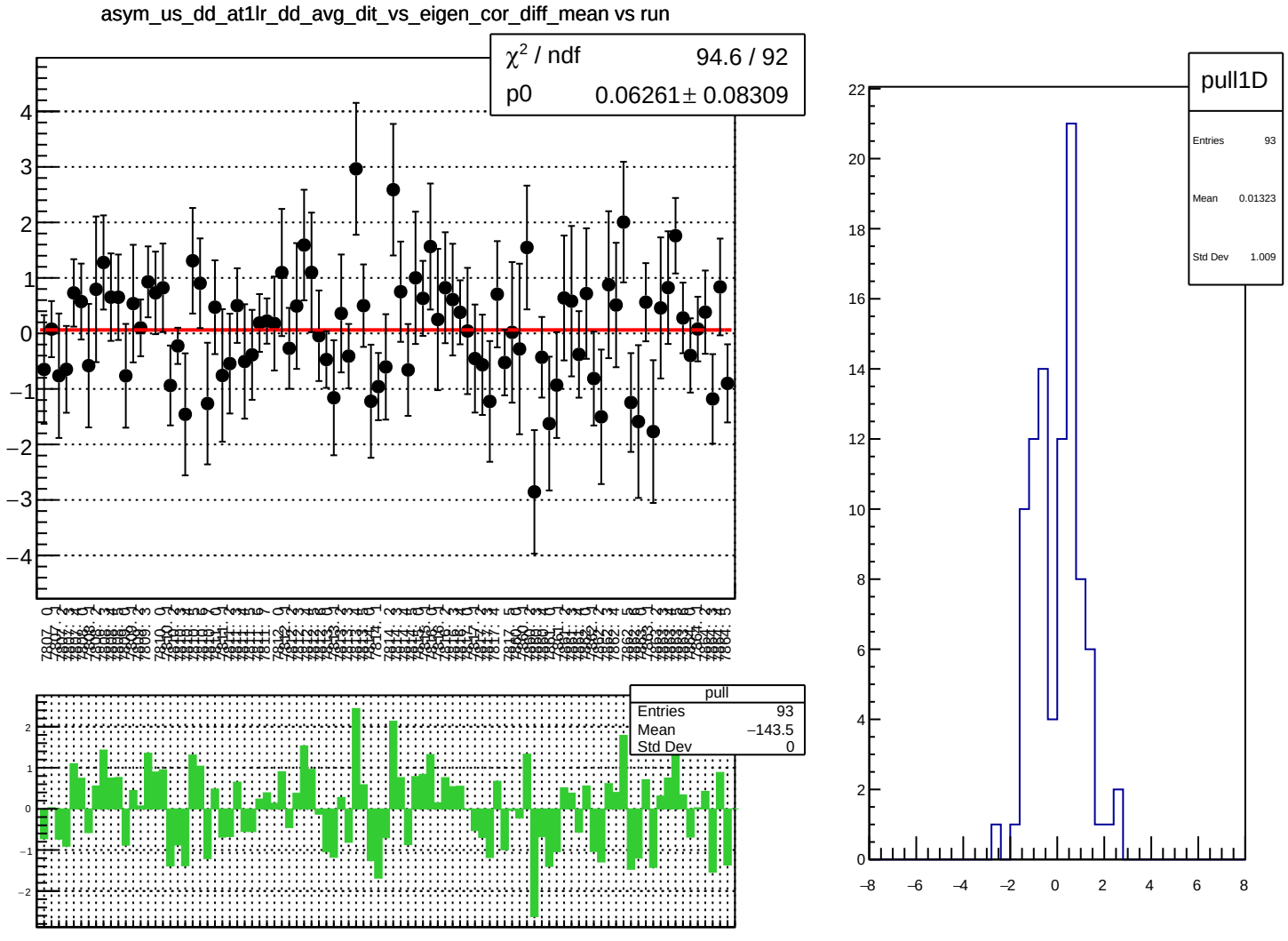

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 94.67 / 92
p0 −2.319e−13 ± 2.774e−13
pull
Entries 93
Mean −6.09
Std Dev 0
pull1D
Entries 93
Mean −0.04091
Std Dev 1.008

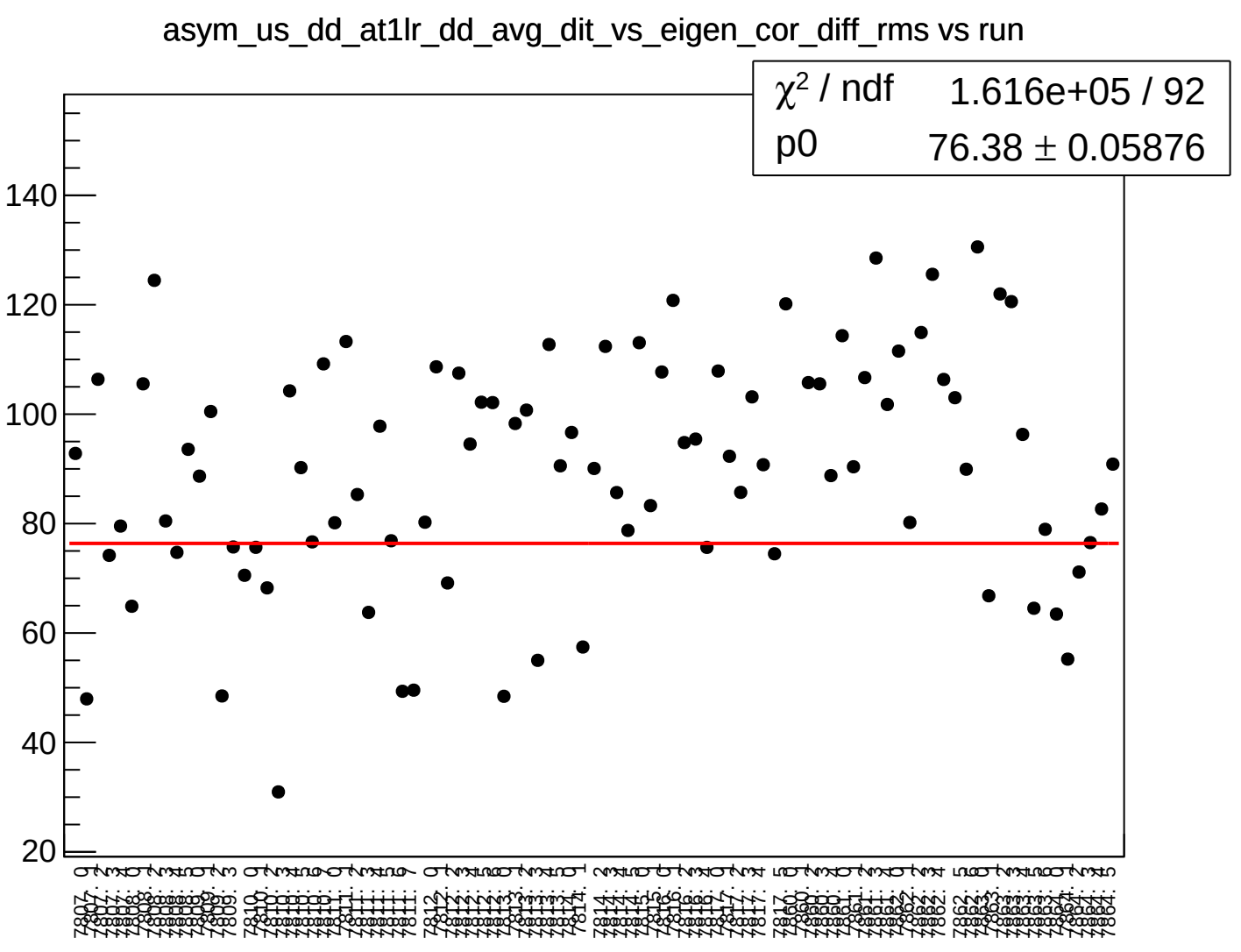

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.059e+06 / 92
p0 1.746e−10 ± 1.962e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

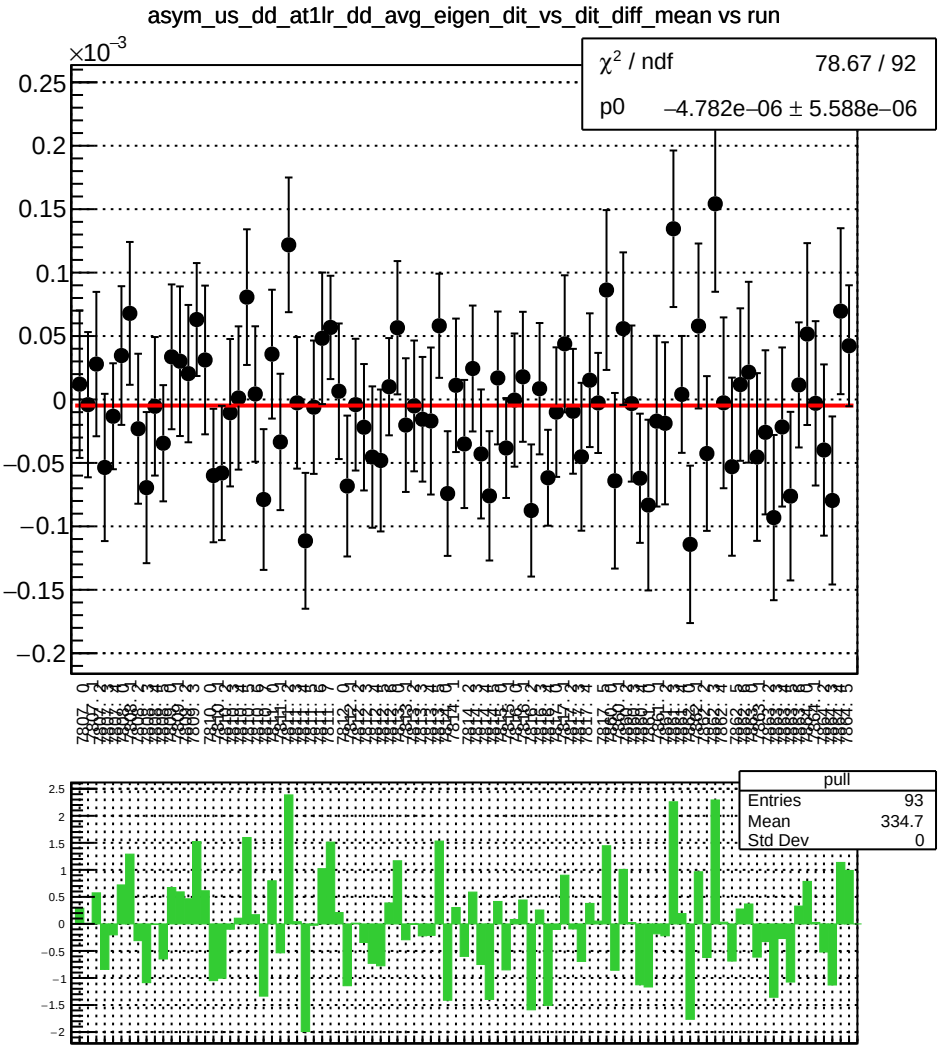

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 94.6 / 92
p0 0.06261 ± 0.08309
pull
Entries 93
Mean −143.5
Std Dev 0

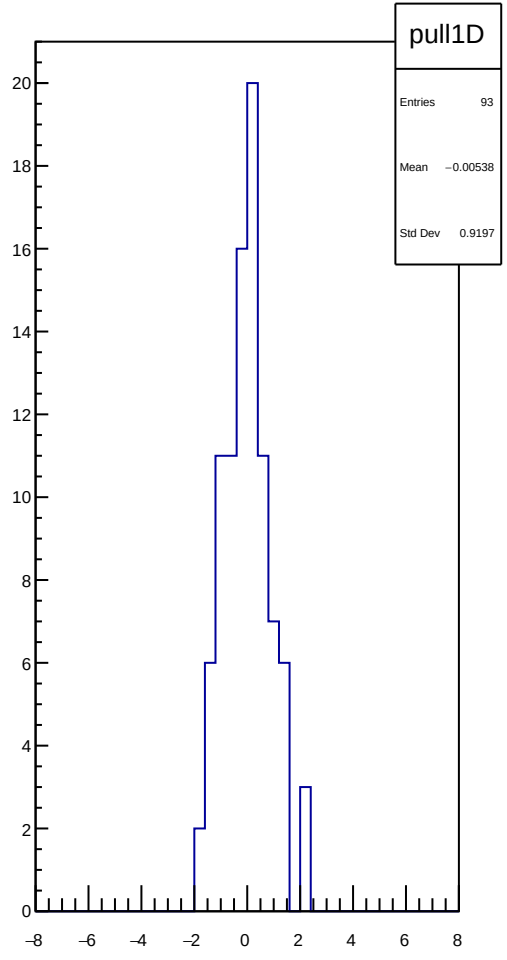

pull1D
Entries 93
Mean 0.01323
Std Dev 1.009

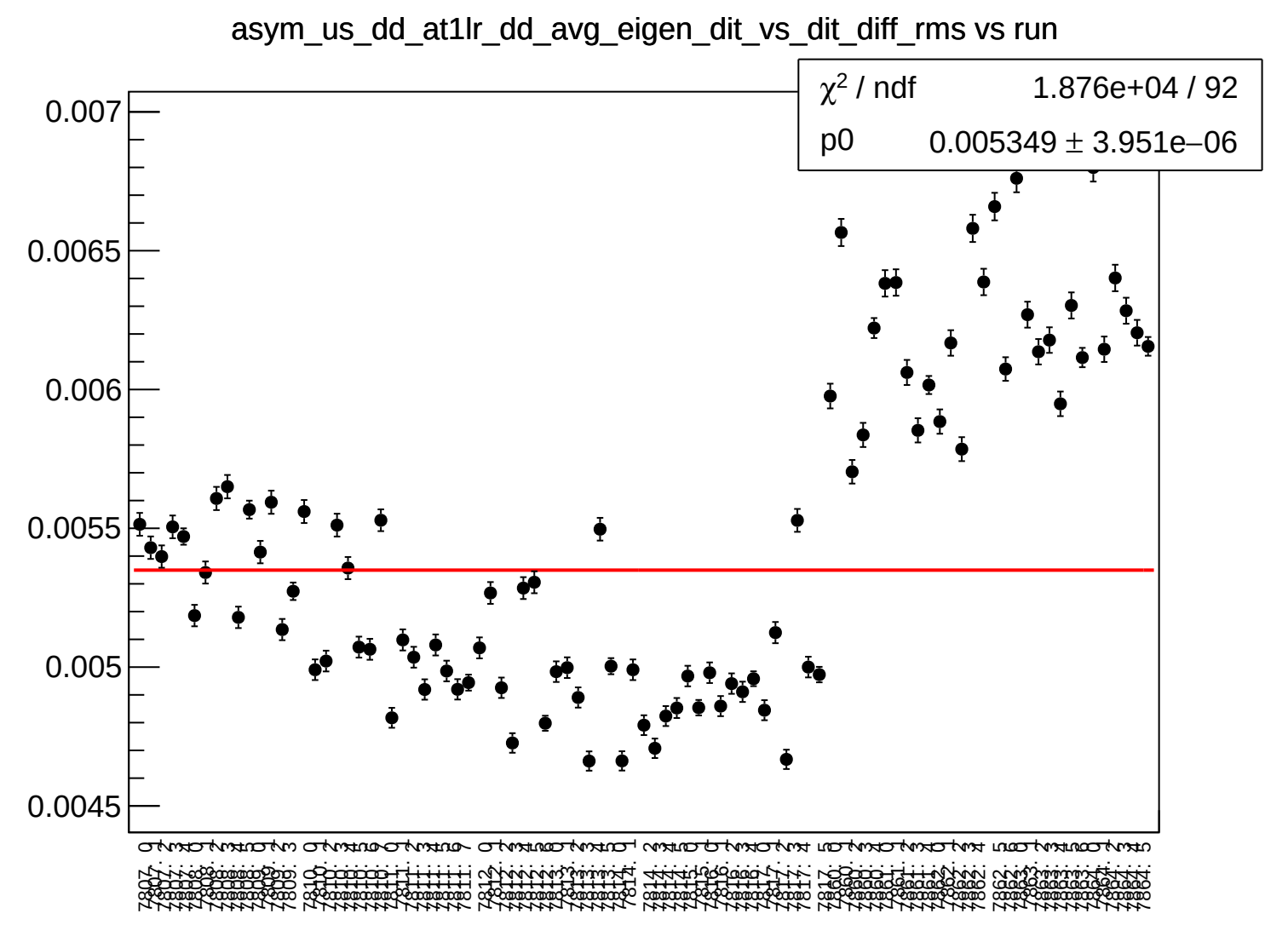

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.616e+05 / 92
p0 76.38 ± 0.05876
140
120
100
80
60
40
20

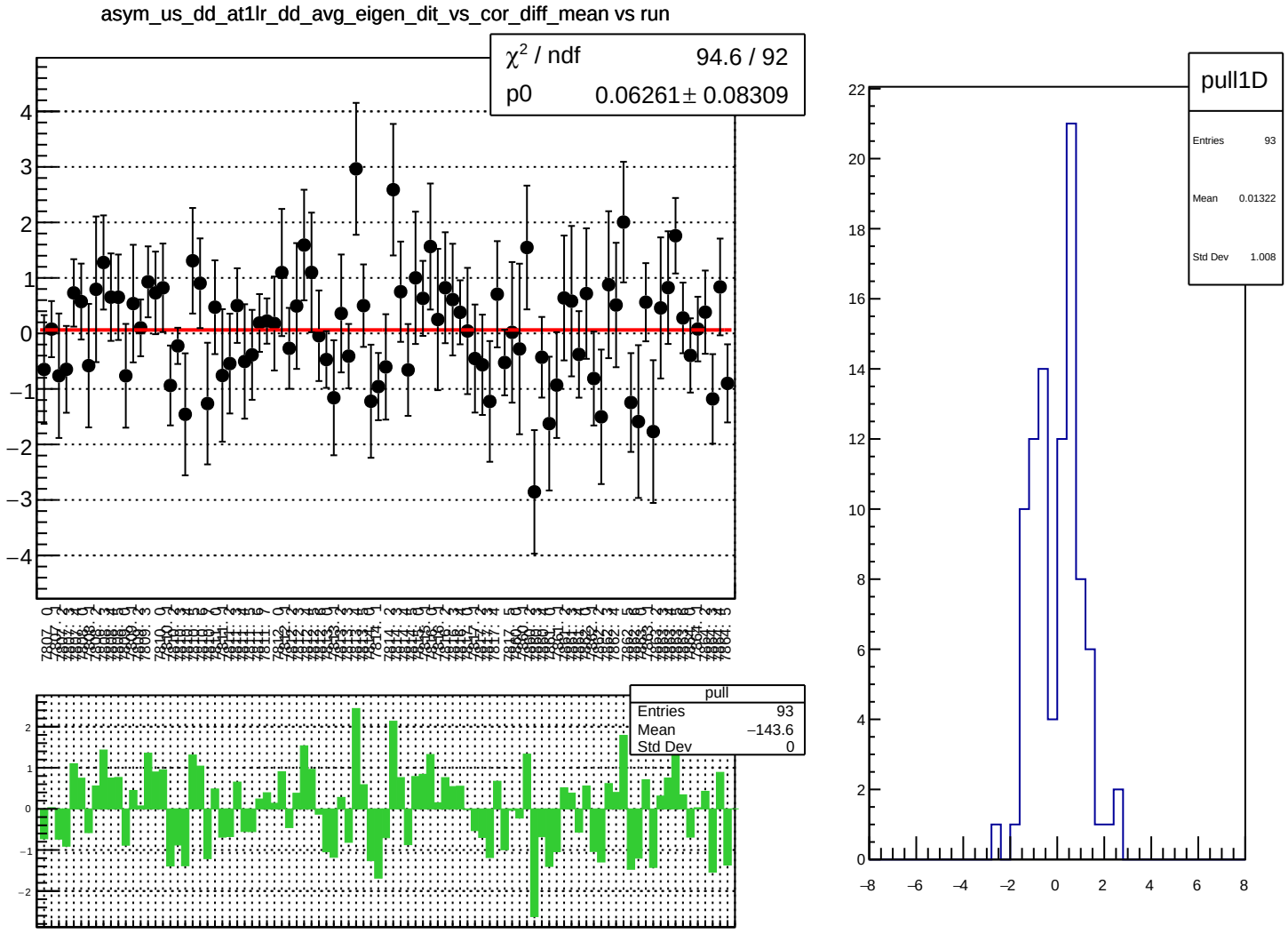

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.6 / 92
p0 0.06261 ± 0.08309
pull
Entries 93
Mean −143.5
Std Dev 0
pull1D
Entries 93
Mean 0.01323
Std Dev 1.009

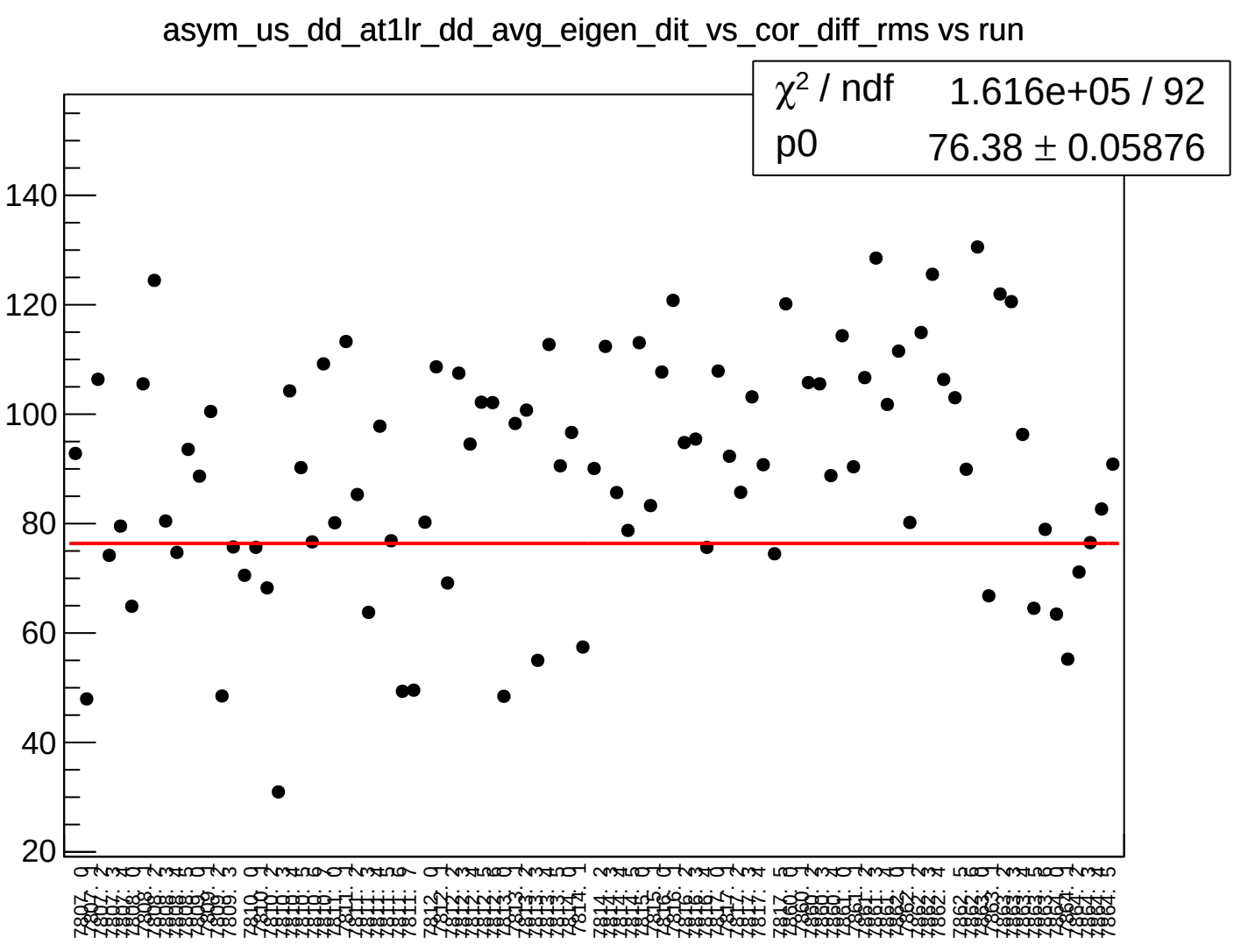

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.616e+05 / 92
p0 76.38 ± 0.05876
140
120
100
80
60
40
20

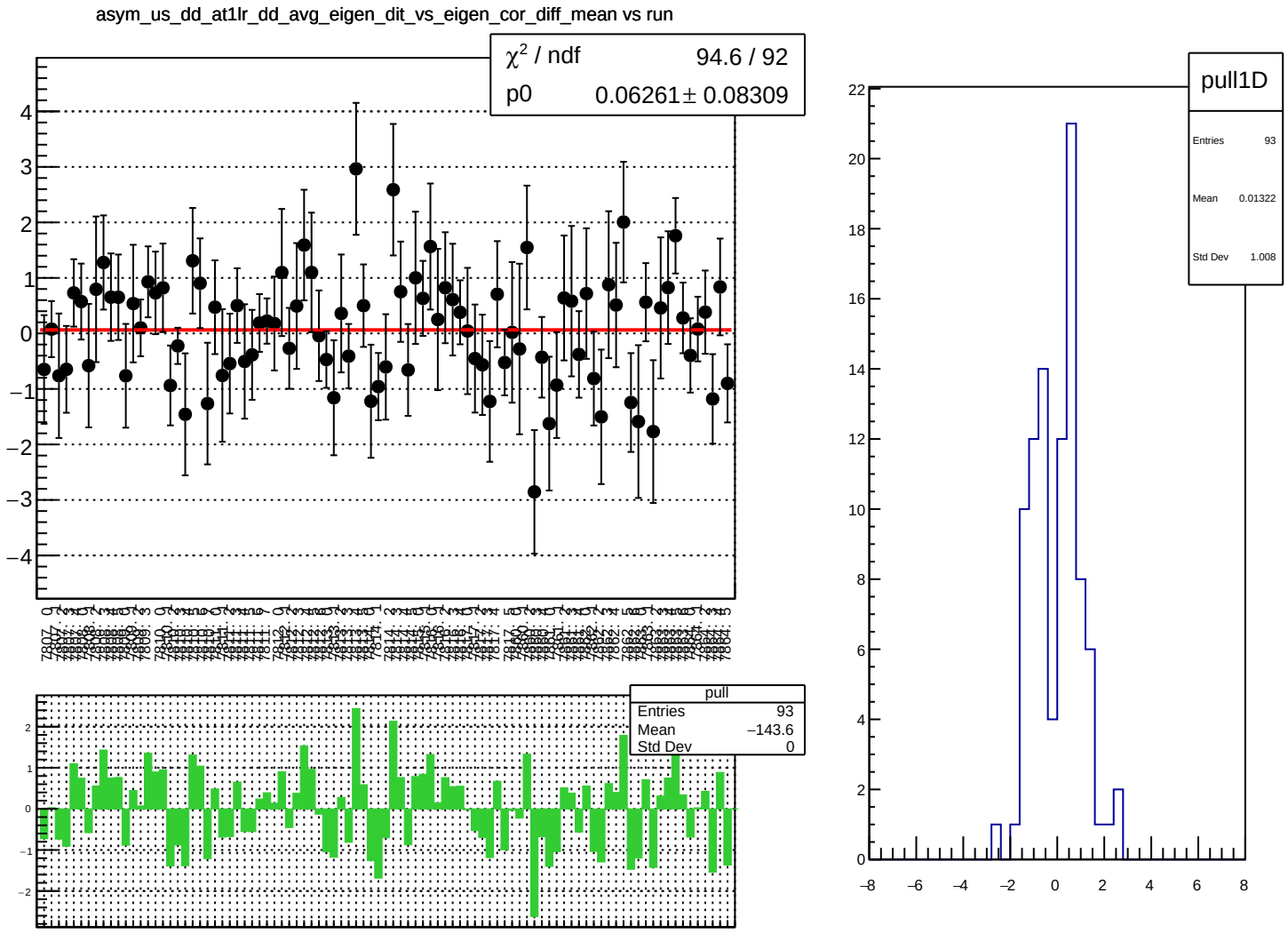

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 78.67 / 92
p0 −4.782e−06 ± 5.588e−06
pull
Entries 93
Mean 334.7
Std Dev 0

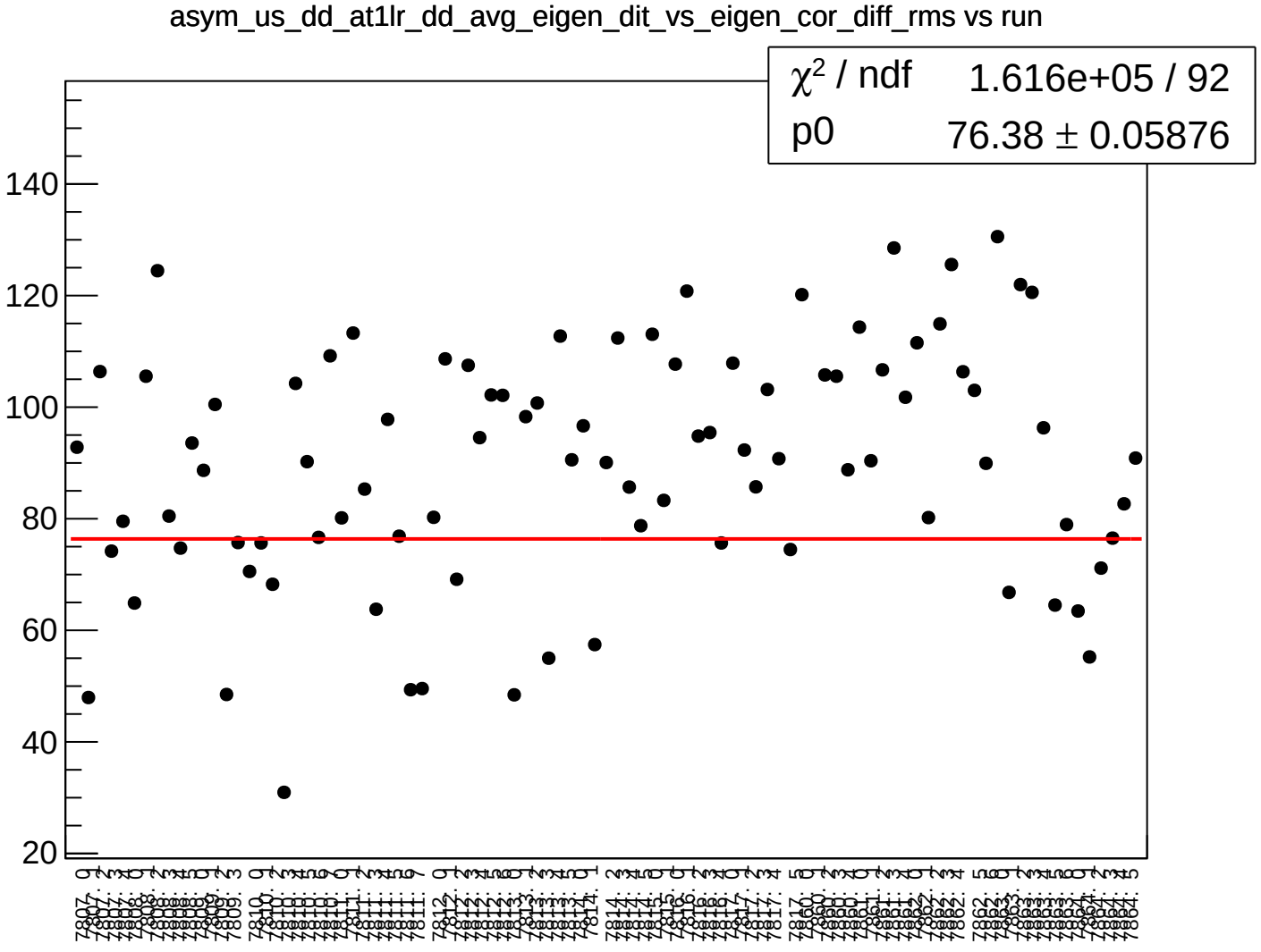

pull1D
Entries 93
Mean −0.00538
Std Dev 0.9197

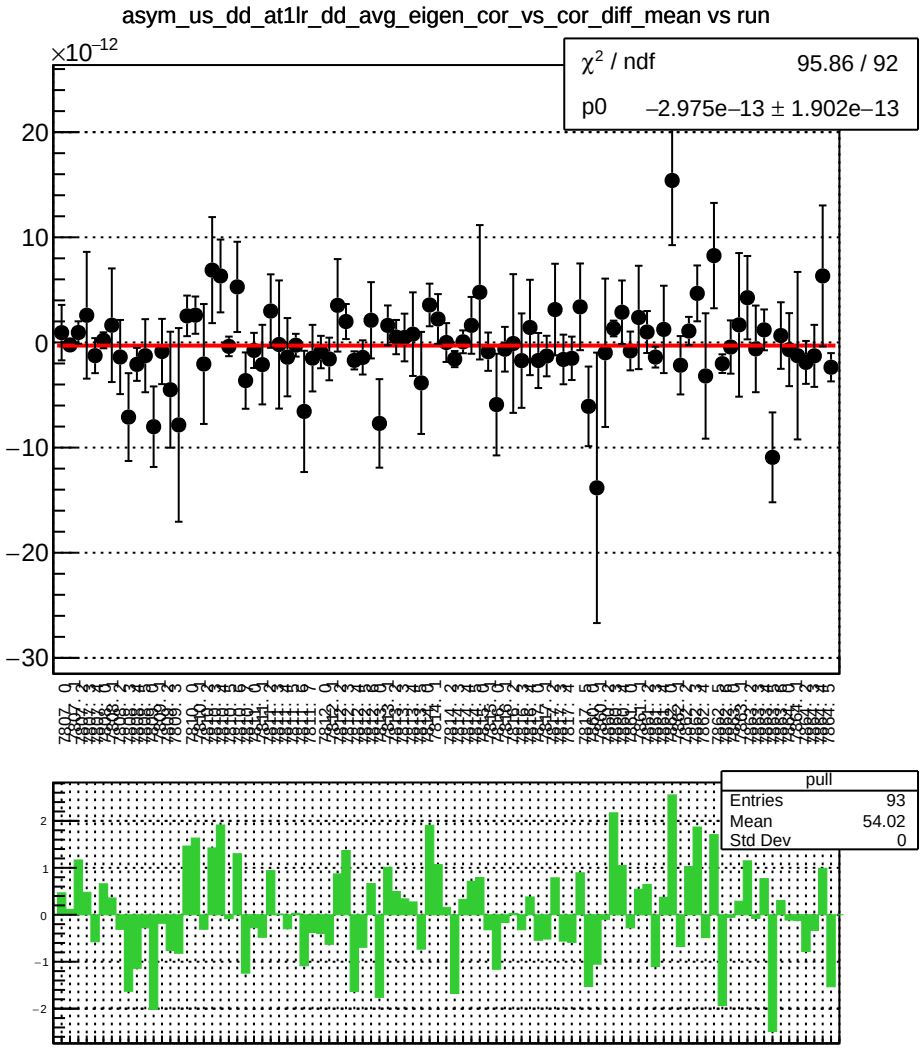

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.876e+04 / 92
p0 0.005349 ± 3.951e−06
0.007
0.0065
0.006
0.0055
0.005
0.0045

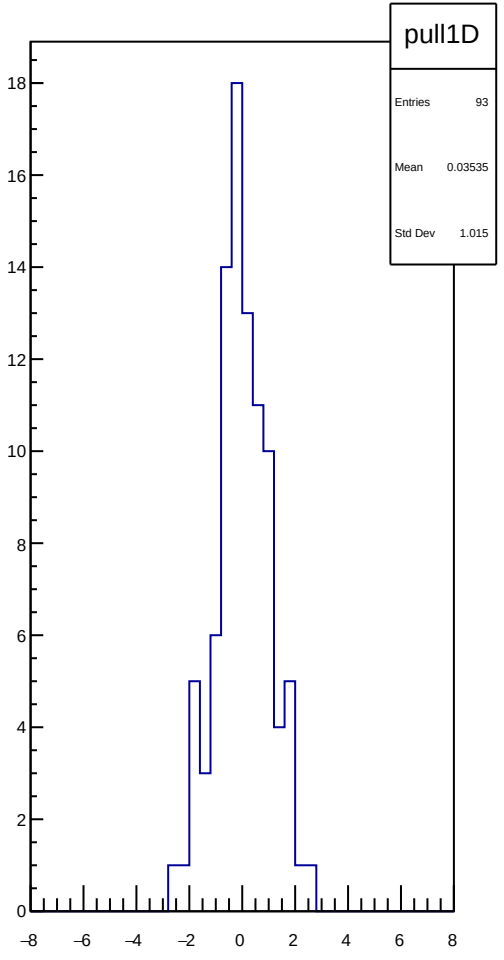

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.6 / 92
p0 0.06261 ± 0.08309
pull
Entries 93
Mean −143.6
Std Dev 0
pull1D
Entries 93
Mean 0.01322
Std Dev 1.008

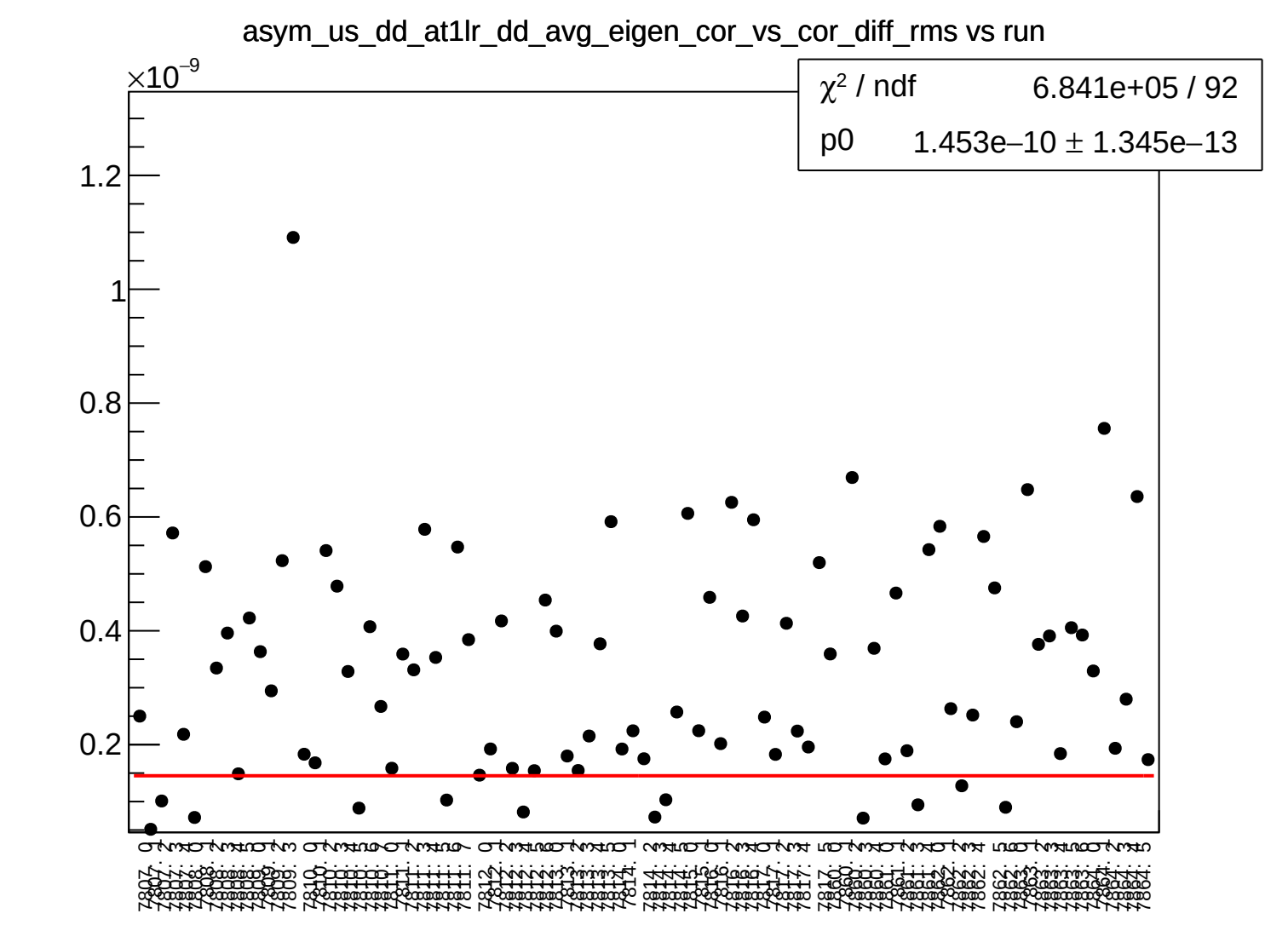

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.616e+05 / 92
p0 76.38 ± 0.05876
140
120
100
80
60
40
20

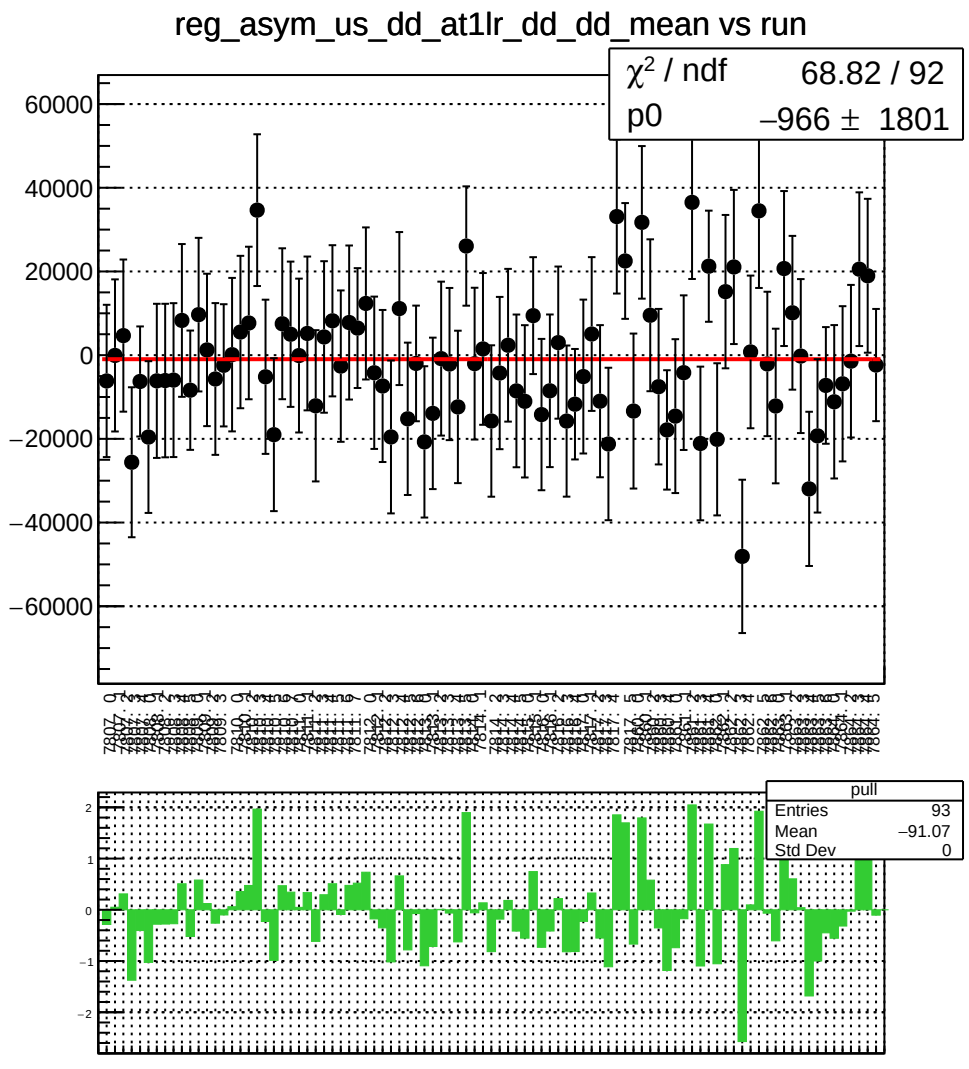

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.6 / 92
p0 0.06261 ± 0.08309
pull
Entries 93
Mean −143.6
Std Dev 0
pull1D
Entries 93
Mean 0.01322
Std Dev 1.008

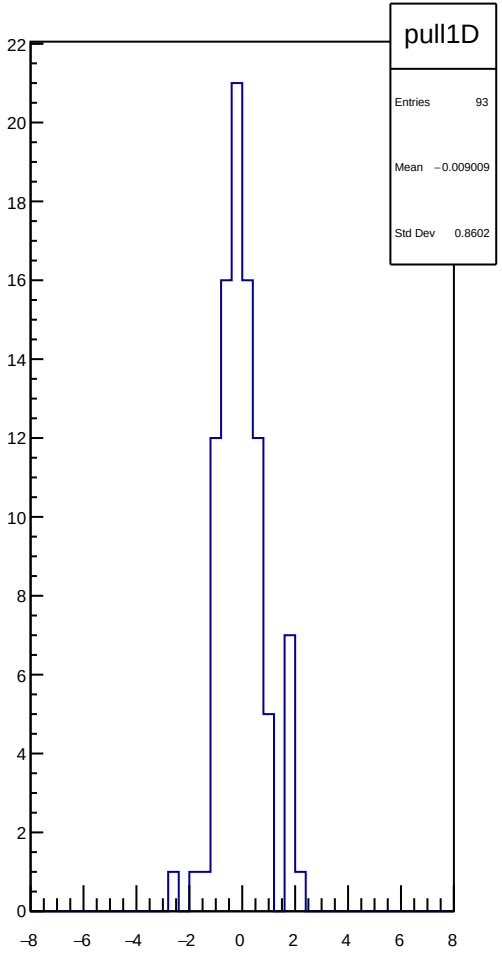

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.616e+05 / 92
p0 76.38 ± 0.05876
140
120
100
80
60
40
20

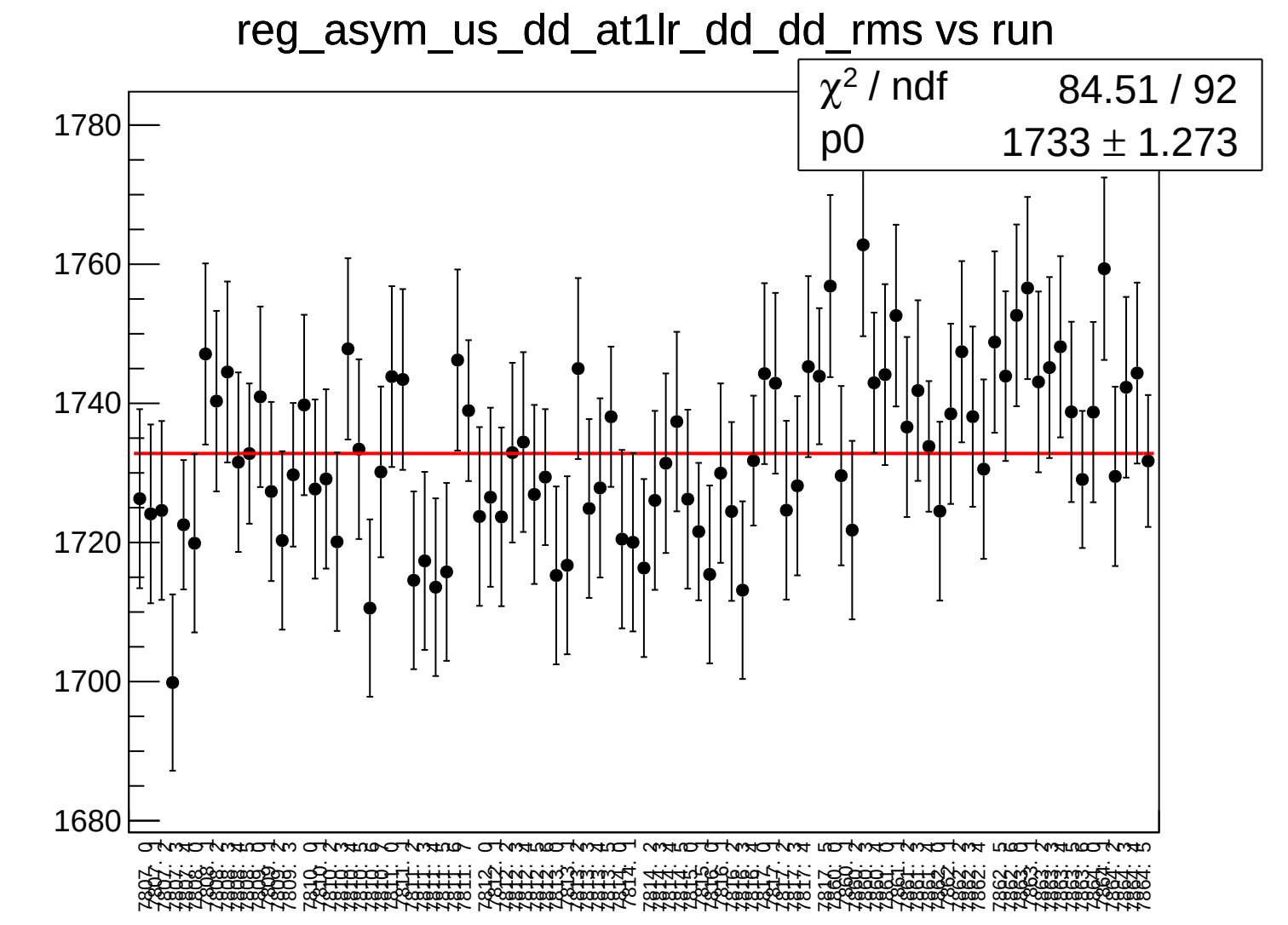

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.86 / 92
p0 −2.975e−13 ± 1.902e−13
pull
Entries 93
Mean 54.02
Std Dev 0

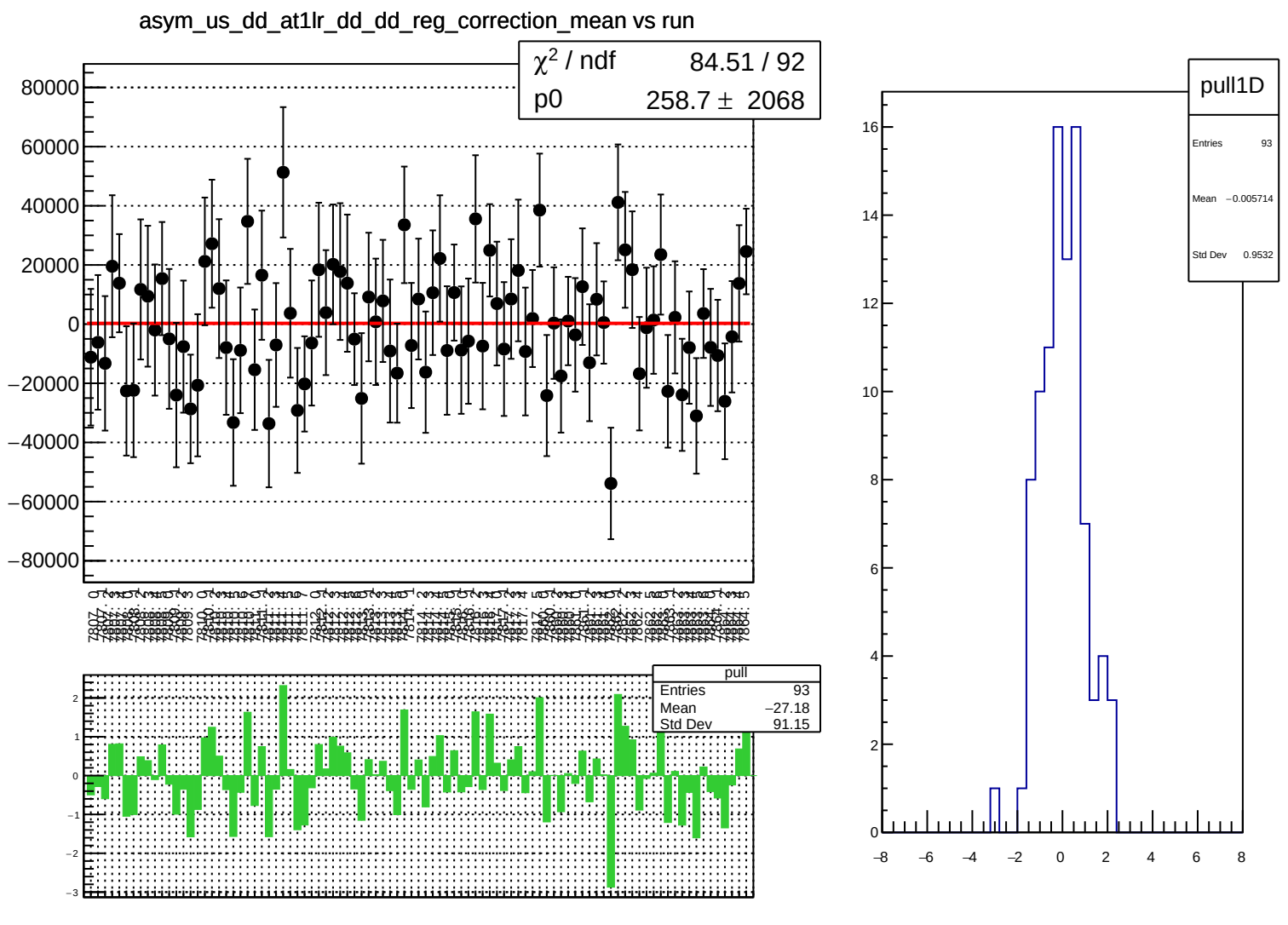

pull1D
Entries 93
Mean 0.03535
Std Dev 1.015

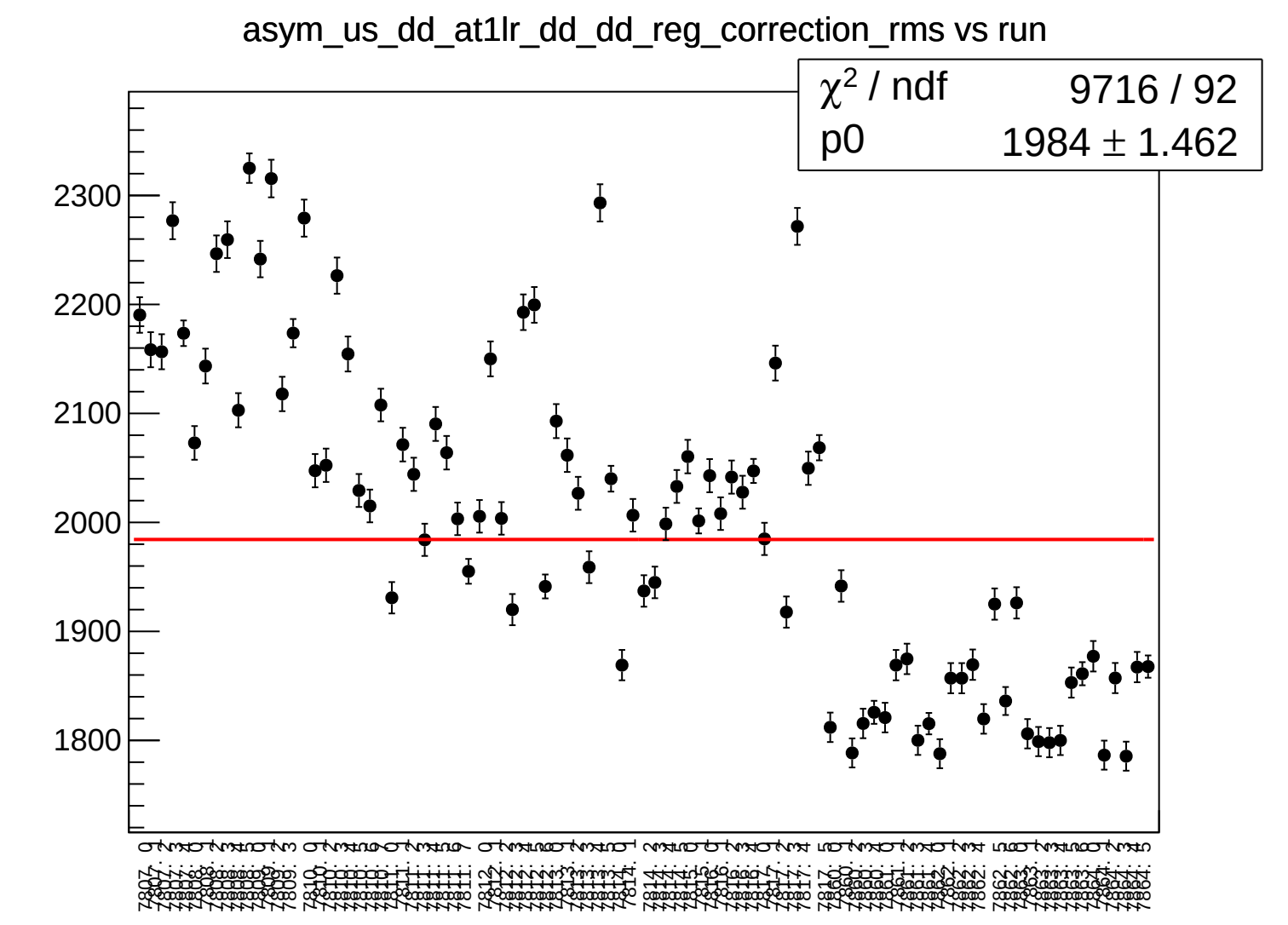

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.841e+05 / 92
p0 1.453e−10 ± 1.345e−13
1.2
1
0.8
0.6
0.4
0.2

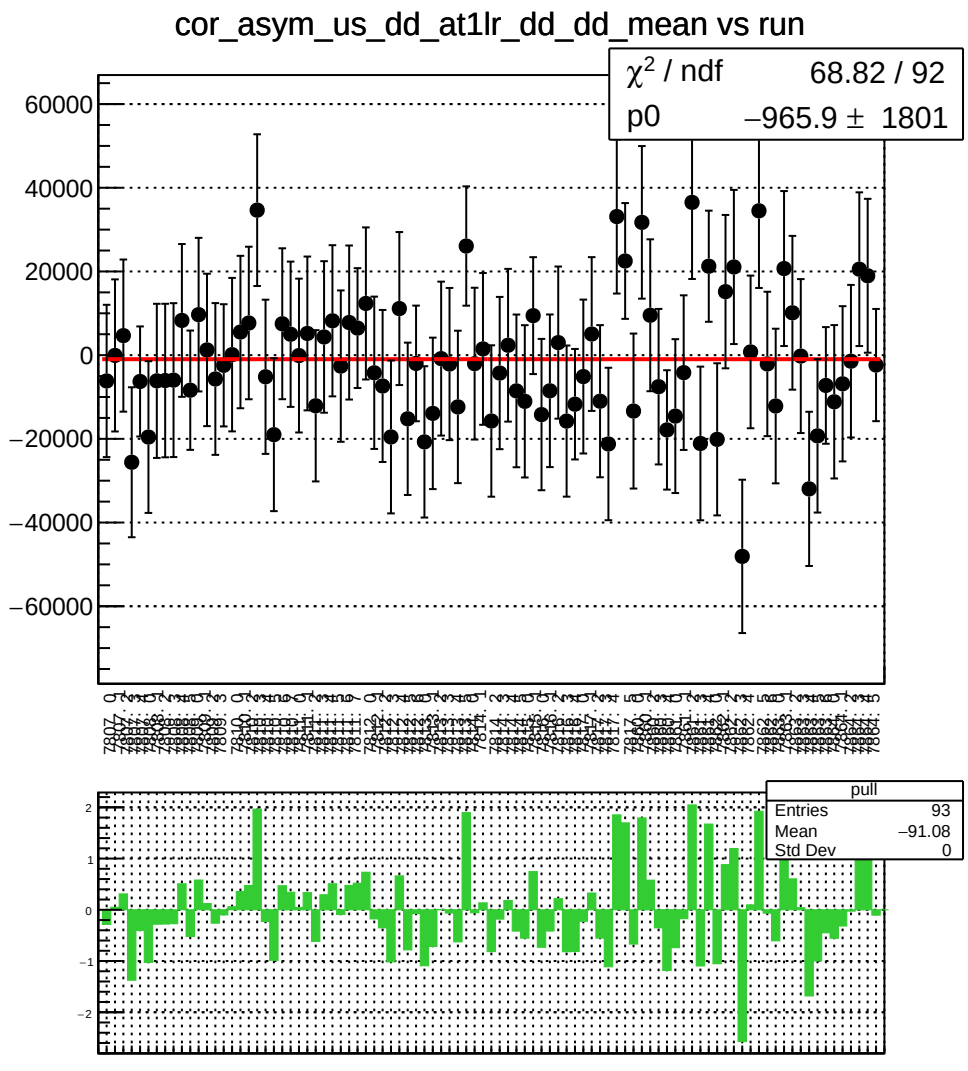

reg_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 68.82 / 92
p0 −966 ± 1801
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −91.07
Std Dev 0
2
1
0
−1
−2

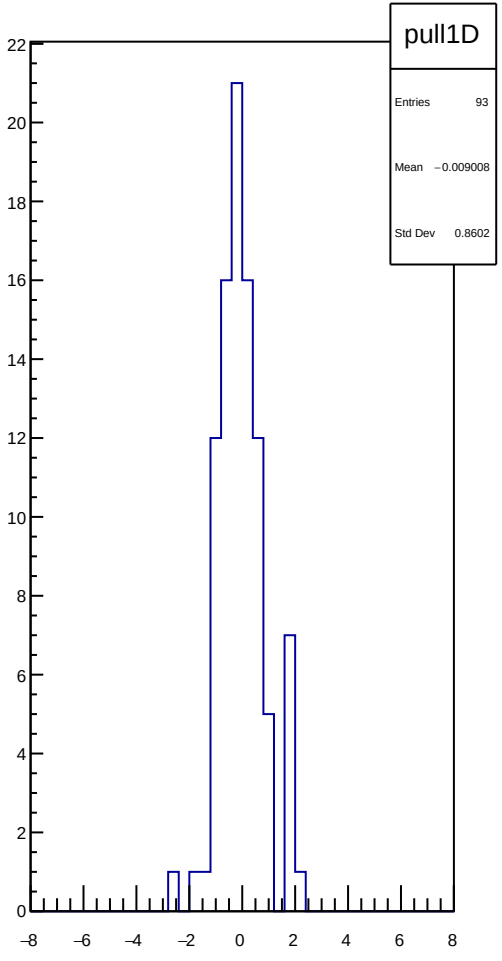

pull1D
Entries 93
Mean −0.009009
Std Dev 0.8602
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

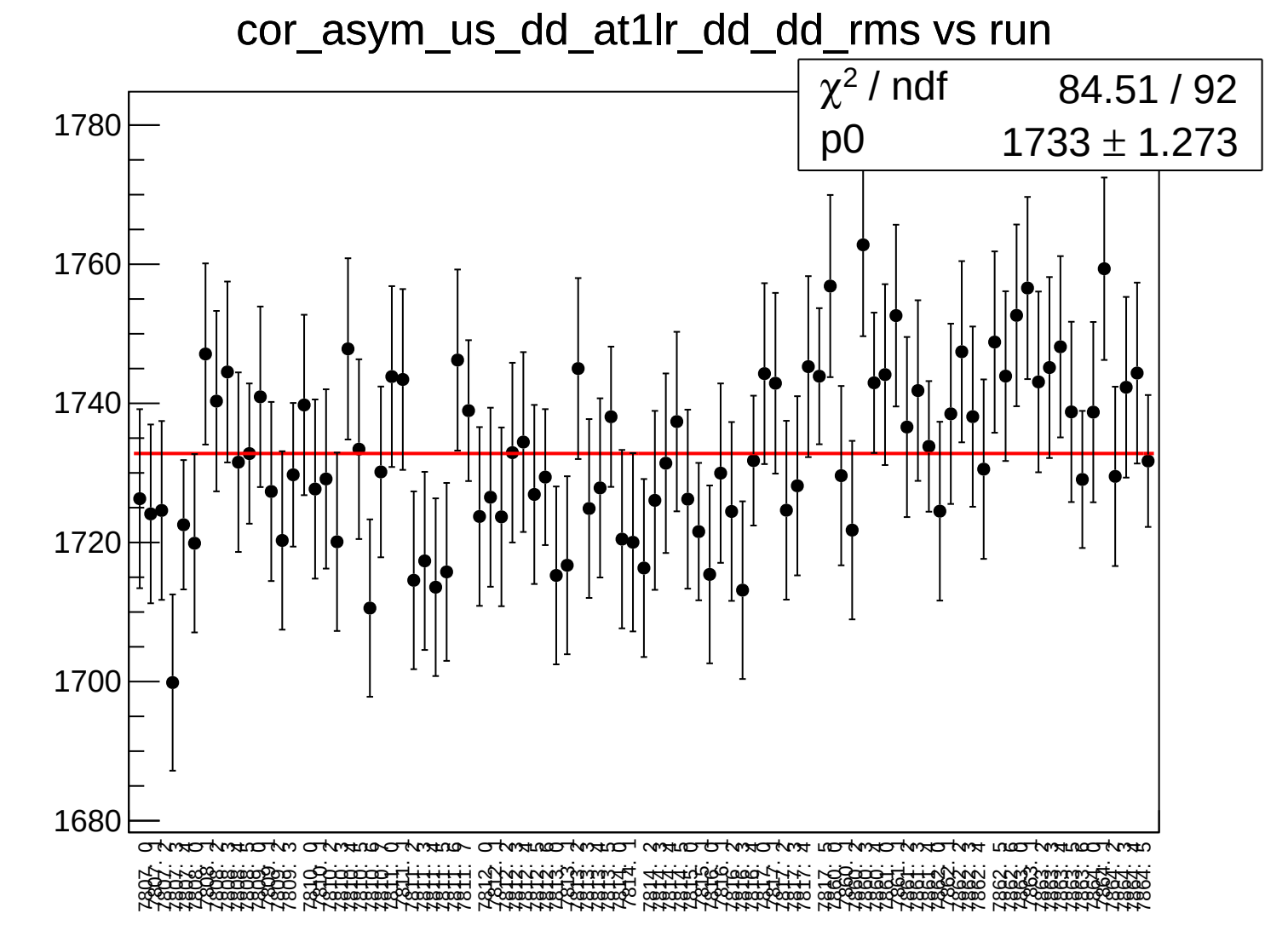

reg_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 84.51 / 92
p0 1733 ± 1.273
1780
1760
1740
1720
1700
1680

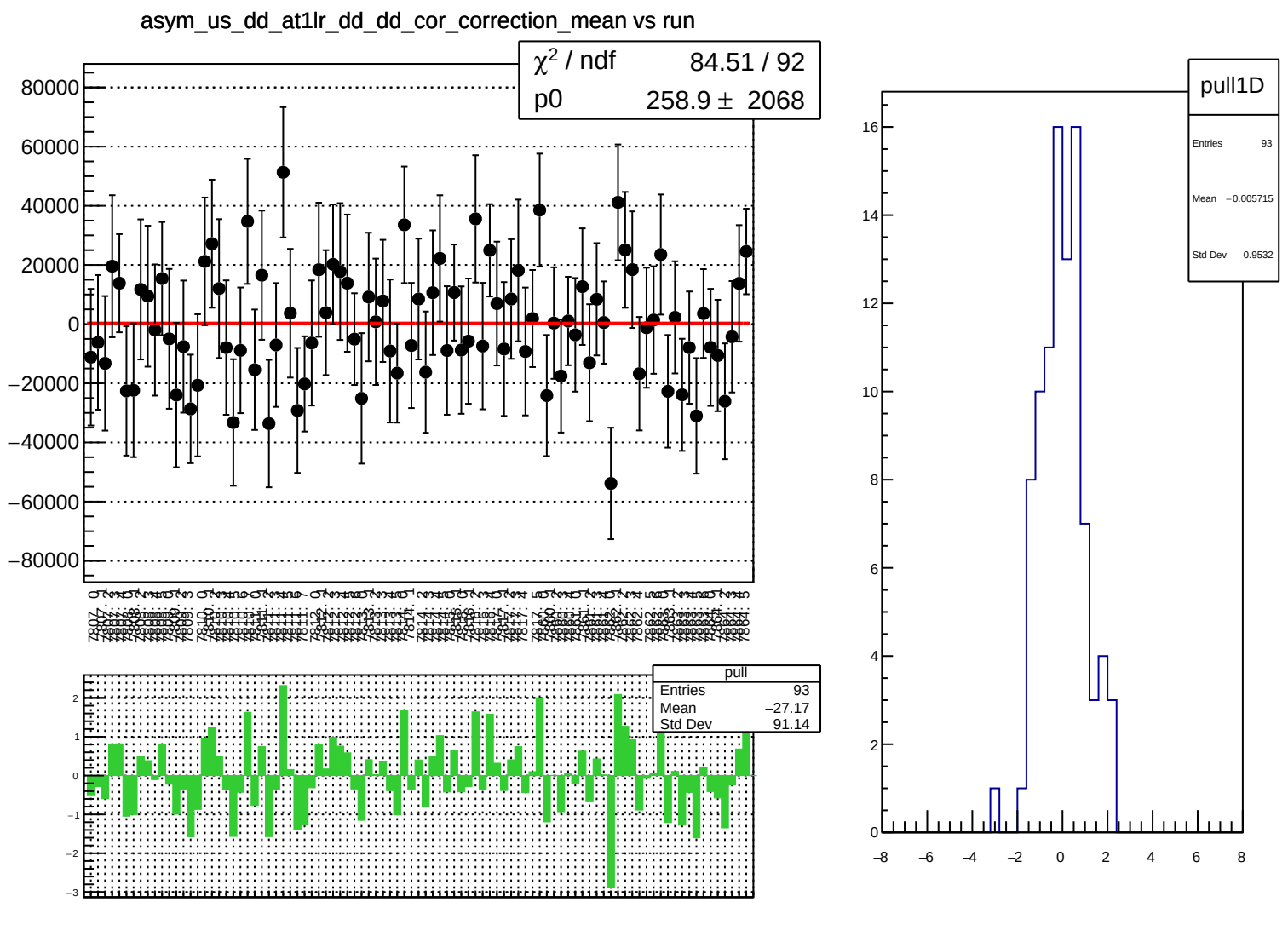

asym_us_dd_at1lr_dd_dd_reg_correction_mean vs run
χ² / ndf 84.51 / 92
p0 258.7 ± 2068
pull
Entries 93
Mean −27.18
Std Dev 91.15
pull1D
Entries 93
Mean −0.005714
Std Dev 0.9532

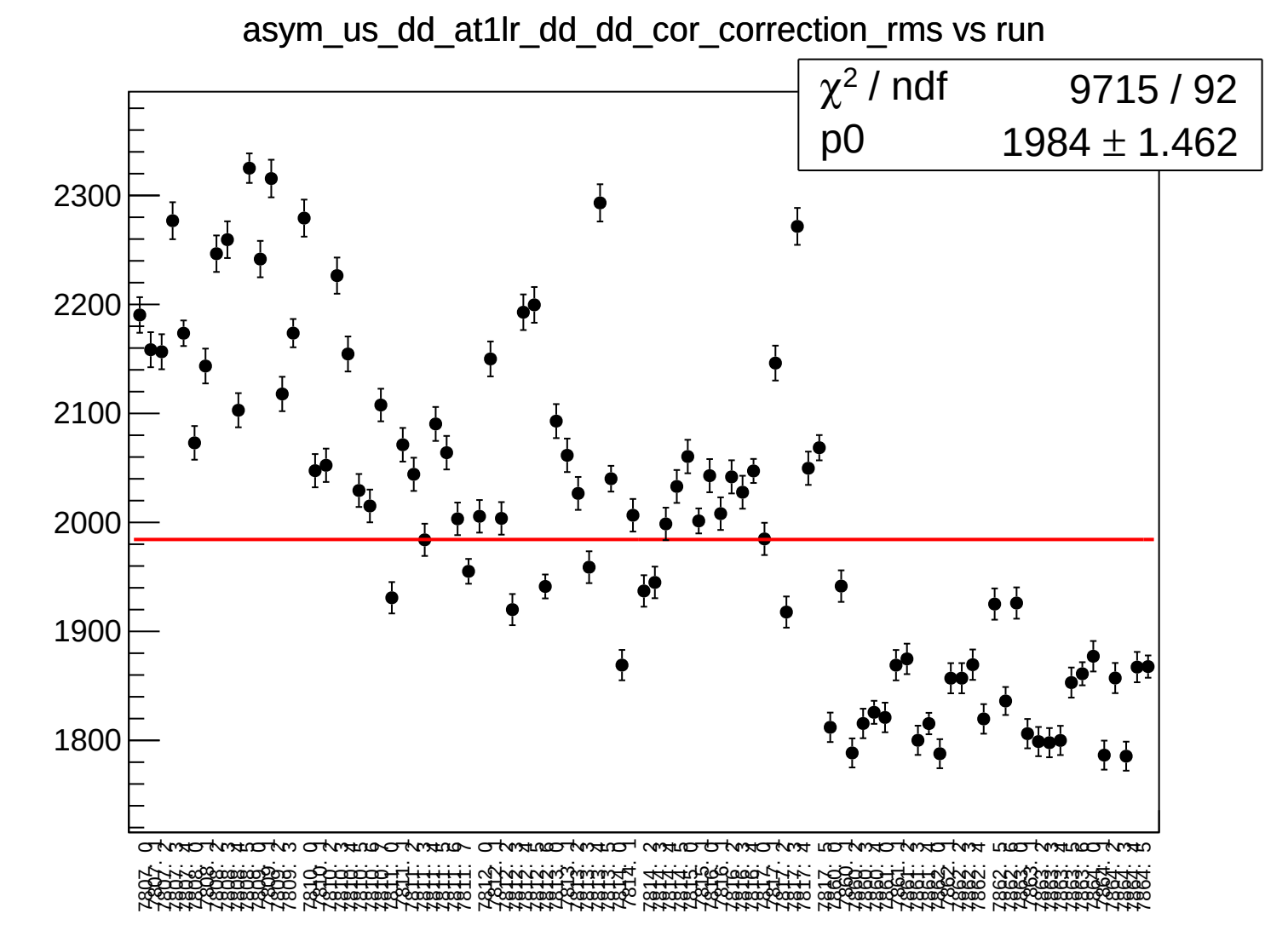

asym_us_dd_at1lr_dd_dd_reg_correction_rms vs run
χ² / ndf 9716 / 92
p0 1984 ± 1.462
2300
2200
2100
2000
1900
1800

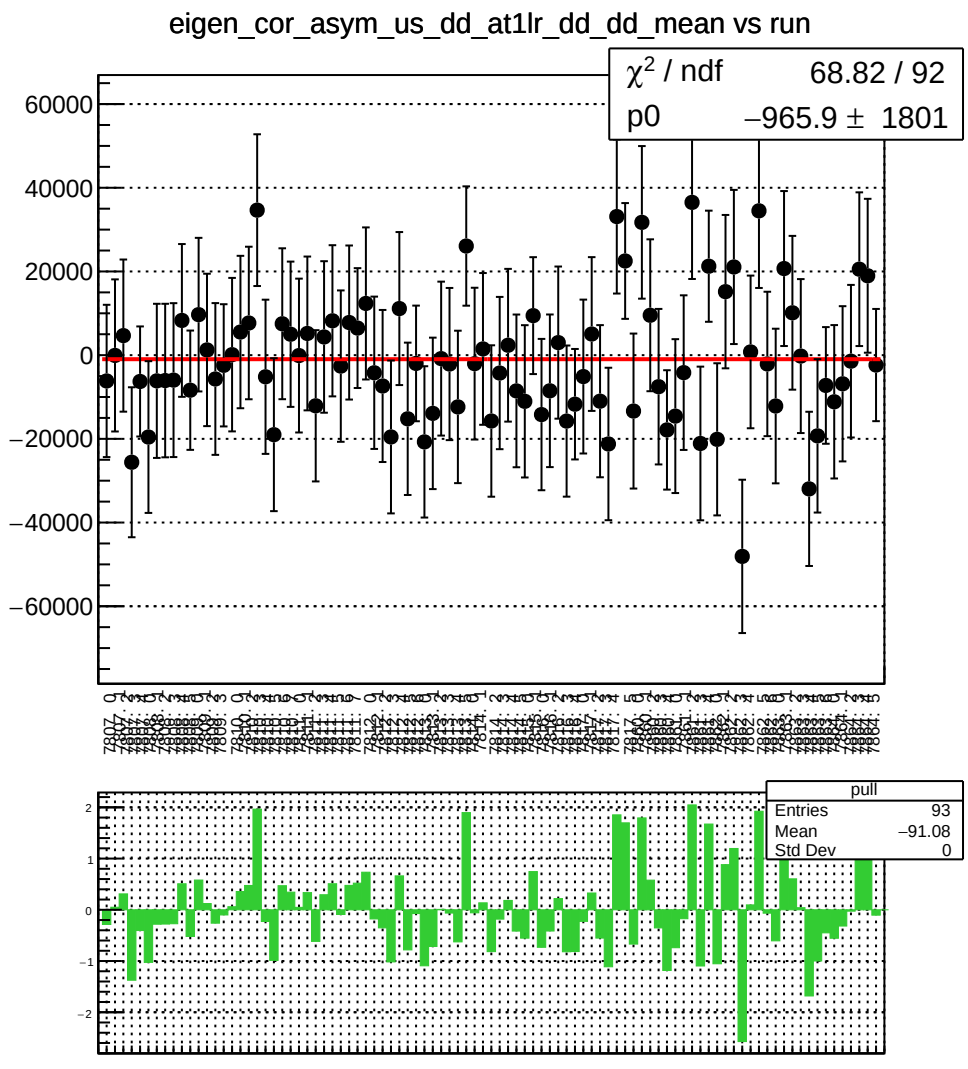

cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 68.82 / 92
p0 −965.9 ± 1801
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −91.08
Std Dev 0
2
1
0
−1
−2

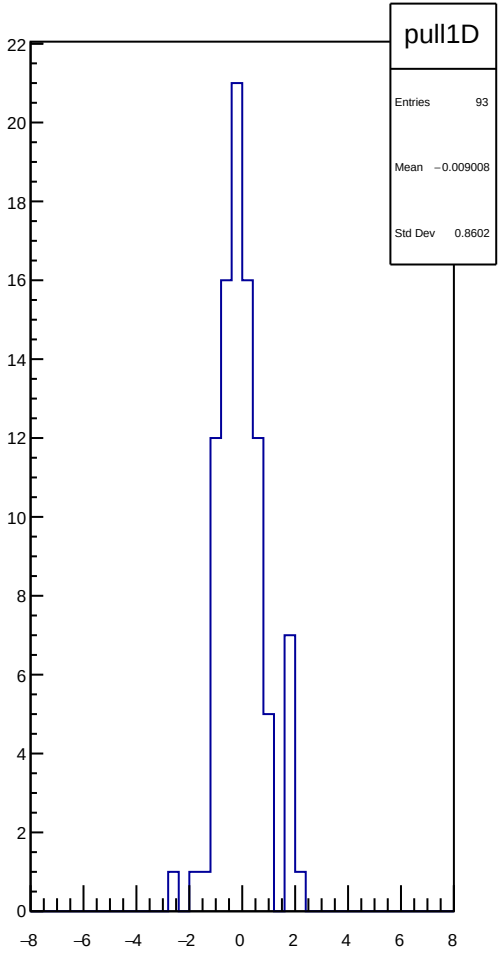

pull1D
Entries 93
Mean −0.009008
Std Dev 0.8602
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

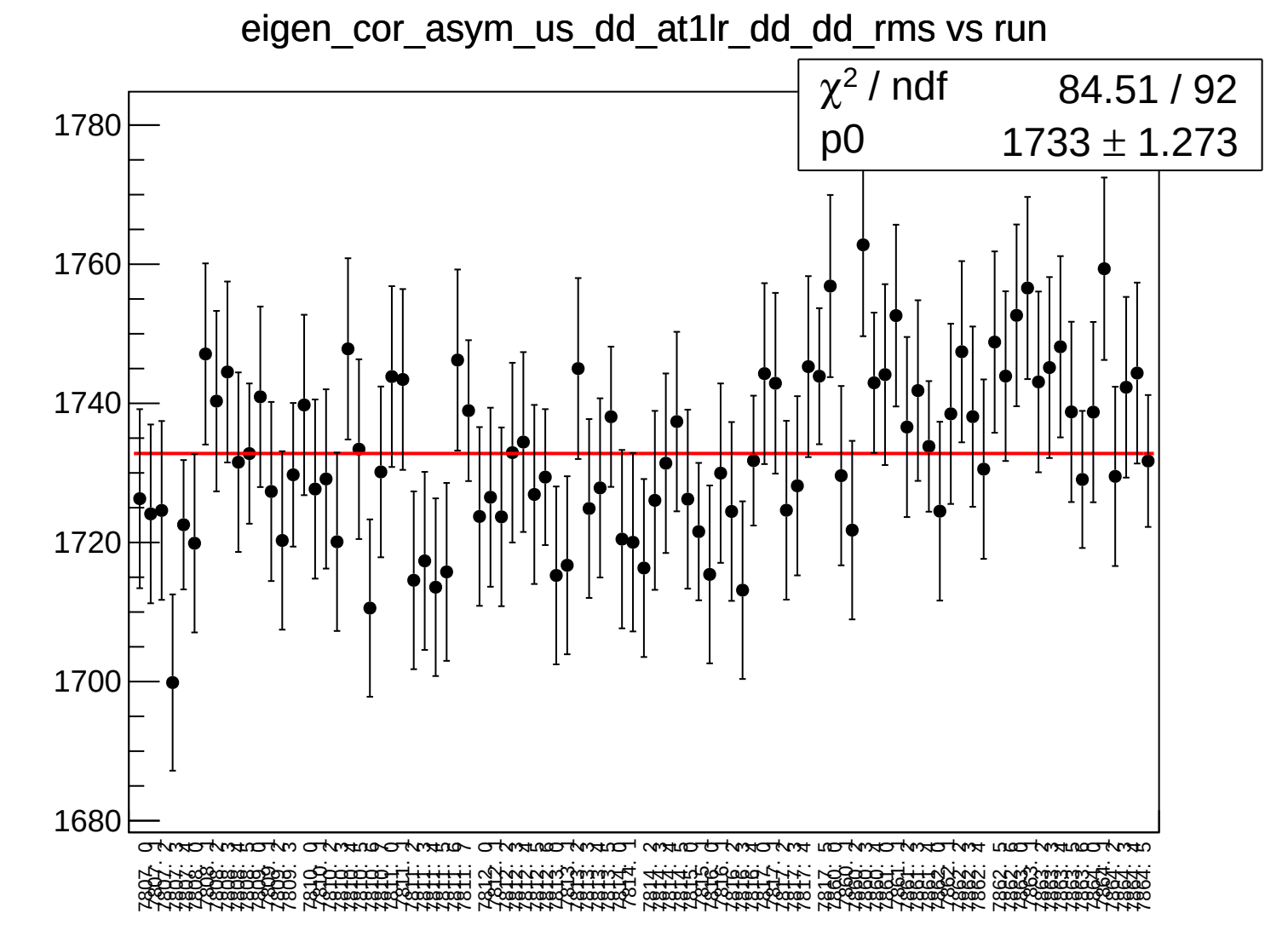

cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ^2 / ndf 84.51 / 92
p0 1733 ± 1.273
1780
1760
1740
1720
1700
1680

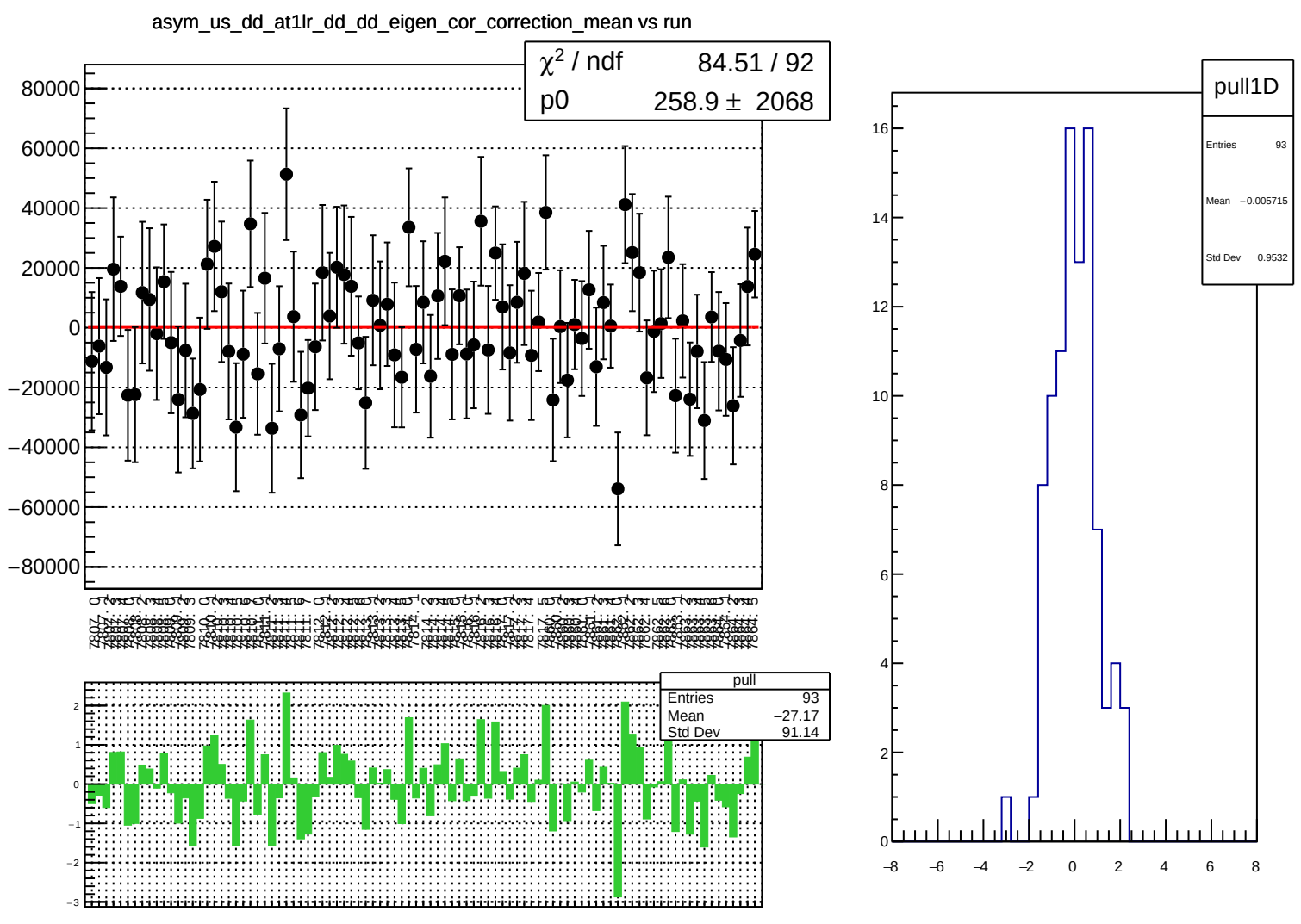

asym_us_dd_at1lr_dd_dd_cor_correction_mean vs run
χ² / ndf 84.51 / 92
p0 258.9 ± 2068
pull
Entries 93
Mean −27.17
Std Dev 91.14
pull1D
Entries 93
Mean −0.005715
Std Dev 0.9532

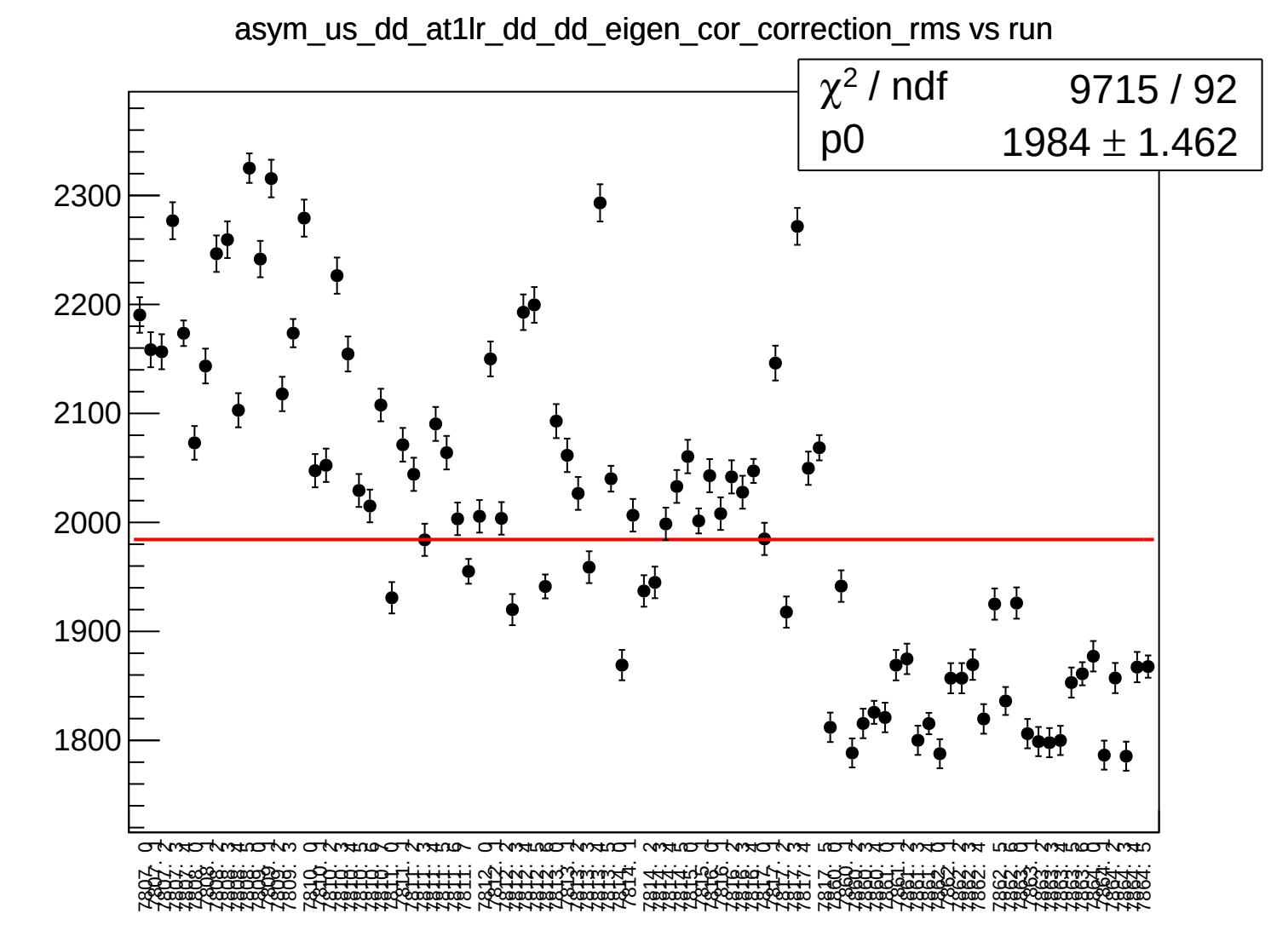

asym_us_dd_at1lr_dd_dd_cor_correction_rms vs run
χ² / ndf 9715 / 92
p0 1984 ± 1.462
2300
2200
2100
2000
1900
1800

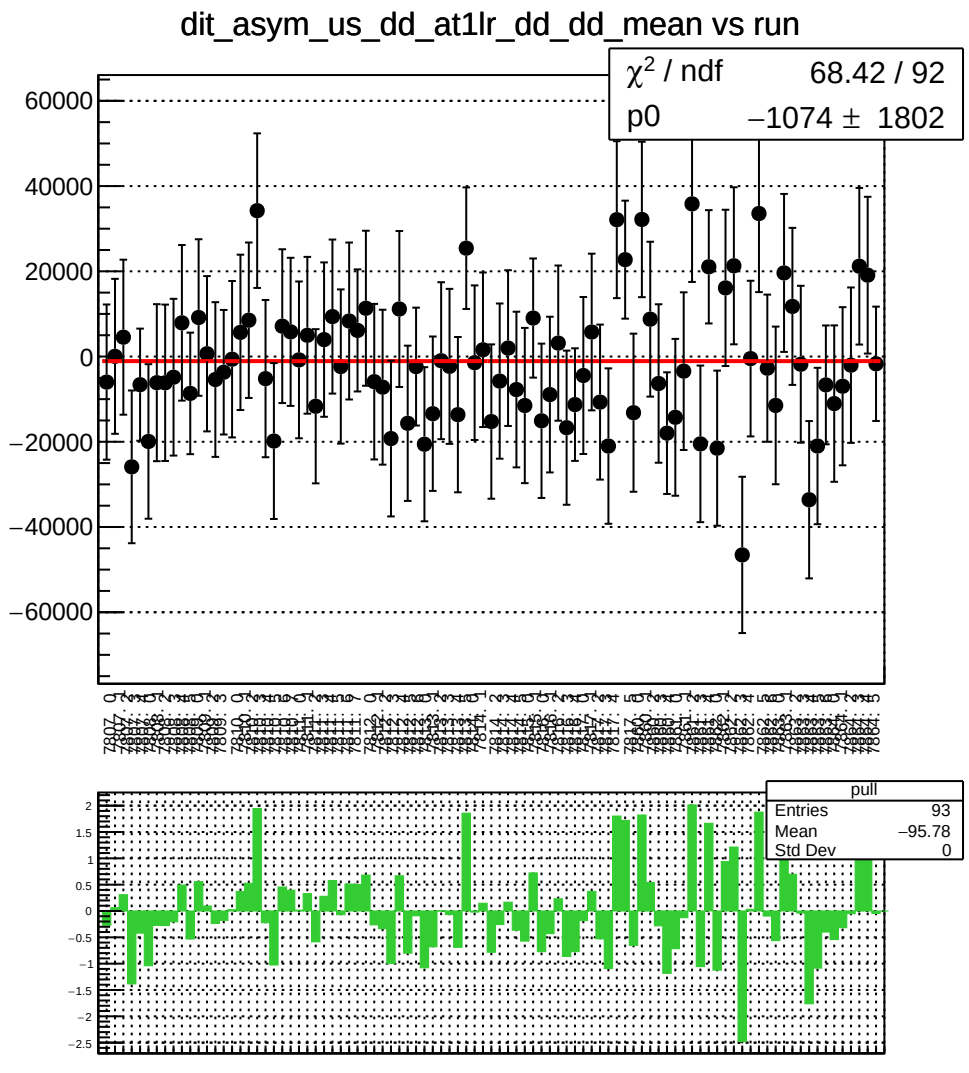

eigen_cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 68.82 / 92
p0 −965.9 ± 1801
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −91.08
Std Dev 0
2
1
0
−1
−2

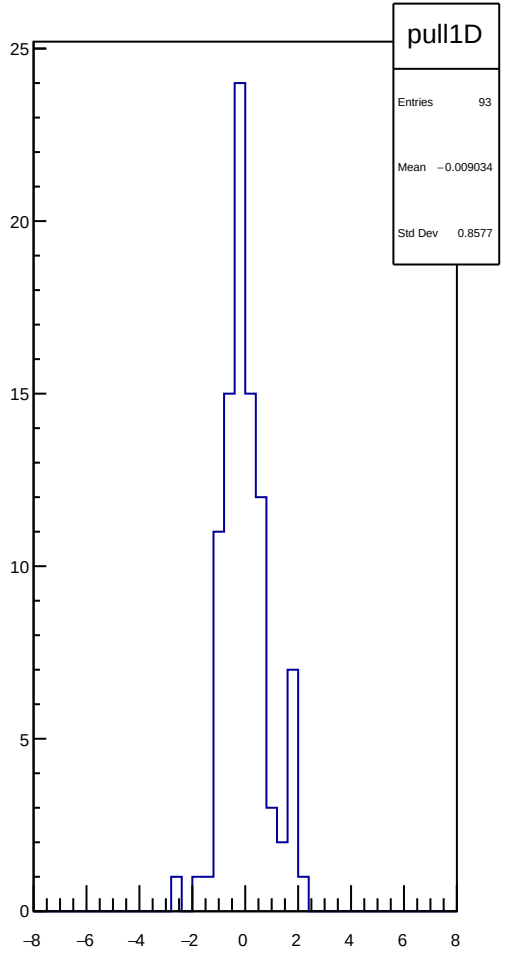

pull1D
Entries 93
Mean −0.009008
Std Dev 0.8602
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

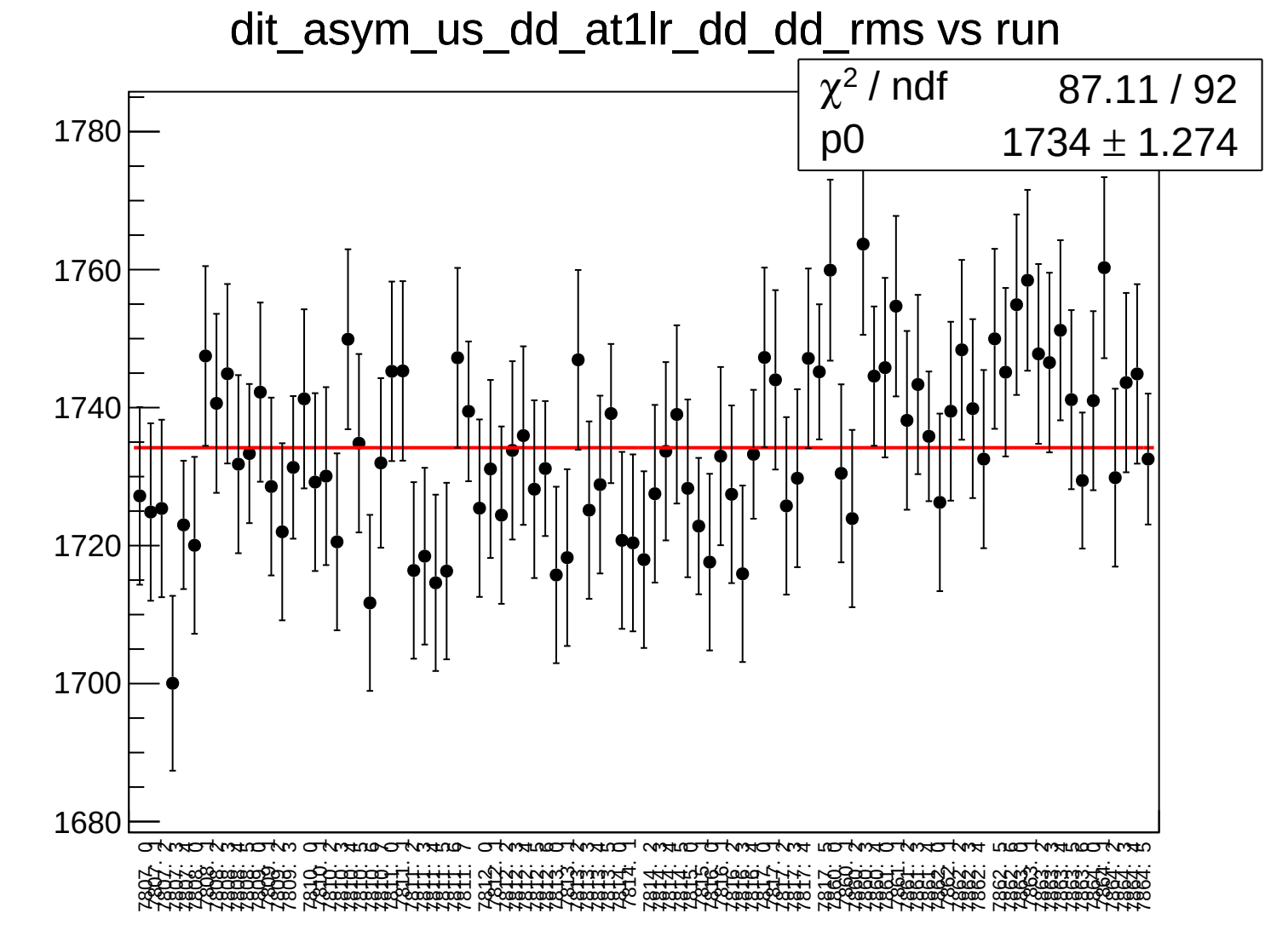

eigen_cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 84.51 / 92
p0 1733 ± 1.273
1780
1760
1740
1720
1700
1680

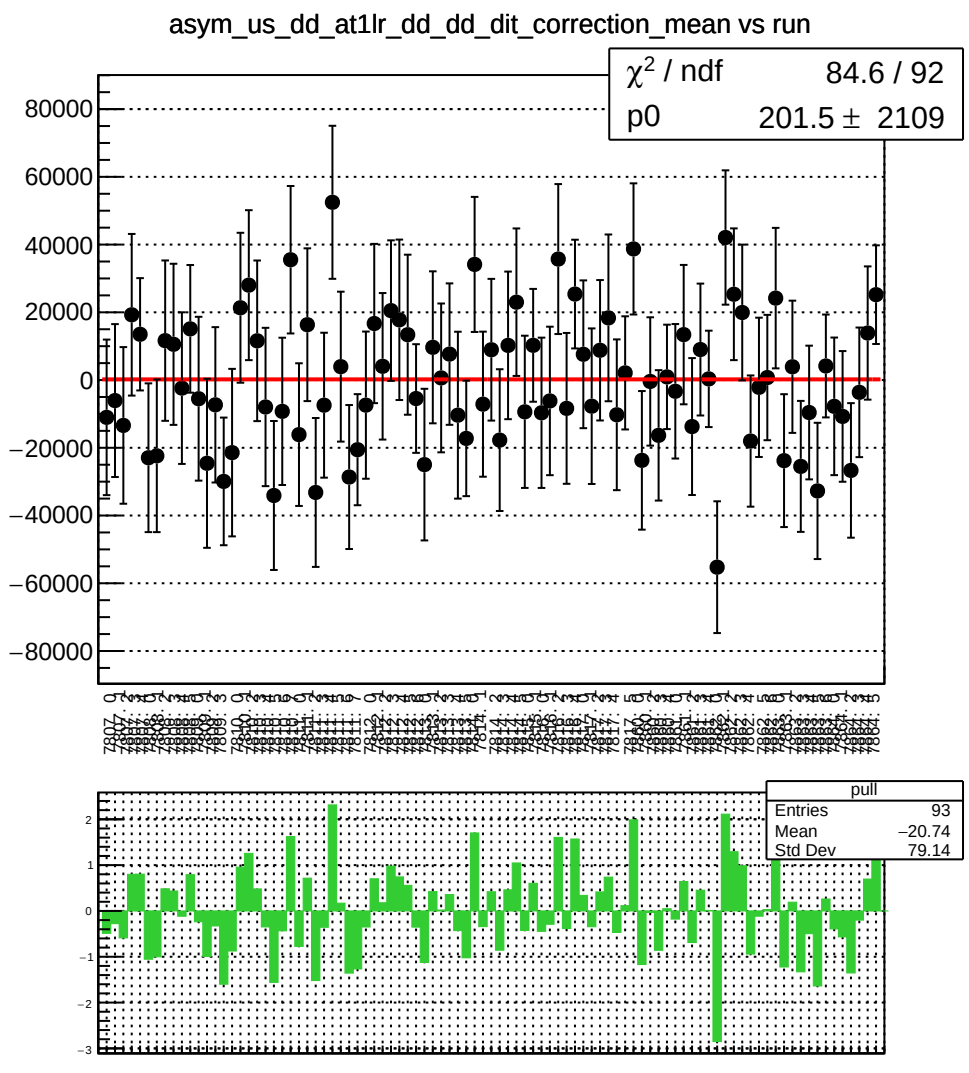

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 84.51 / 92
p0 258.9 ± 2068
pull
Entries 93
Mean −27.17
Std Dev 91.14
pull1D
Entries 93
Mean −0.005715
Std Dev 0.9532

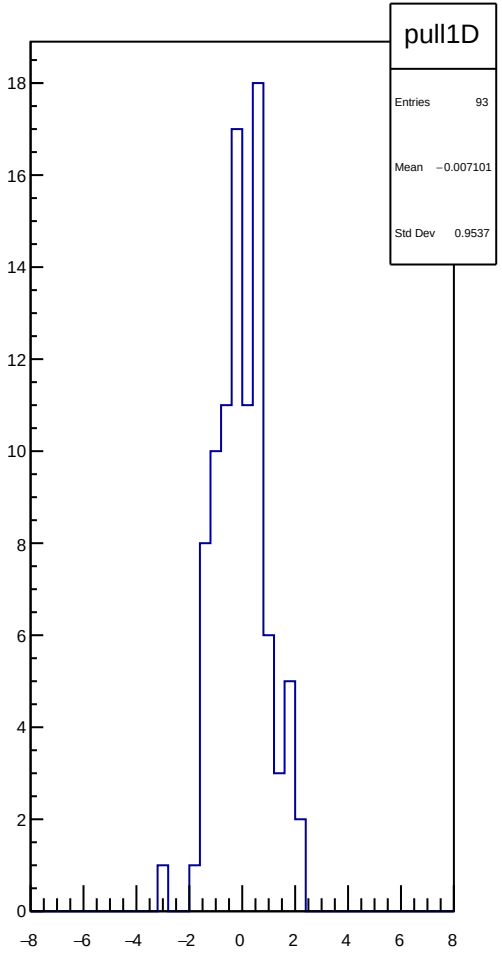

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 9715 / 92
p0 1984 ± 1.462
2300
2200
2100
2000
1900
1800

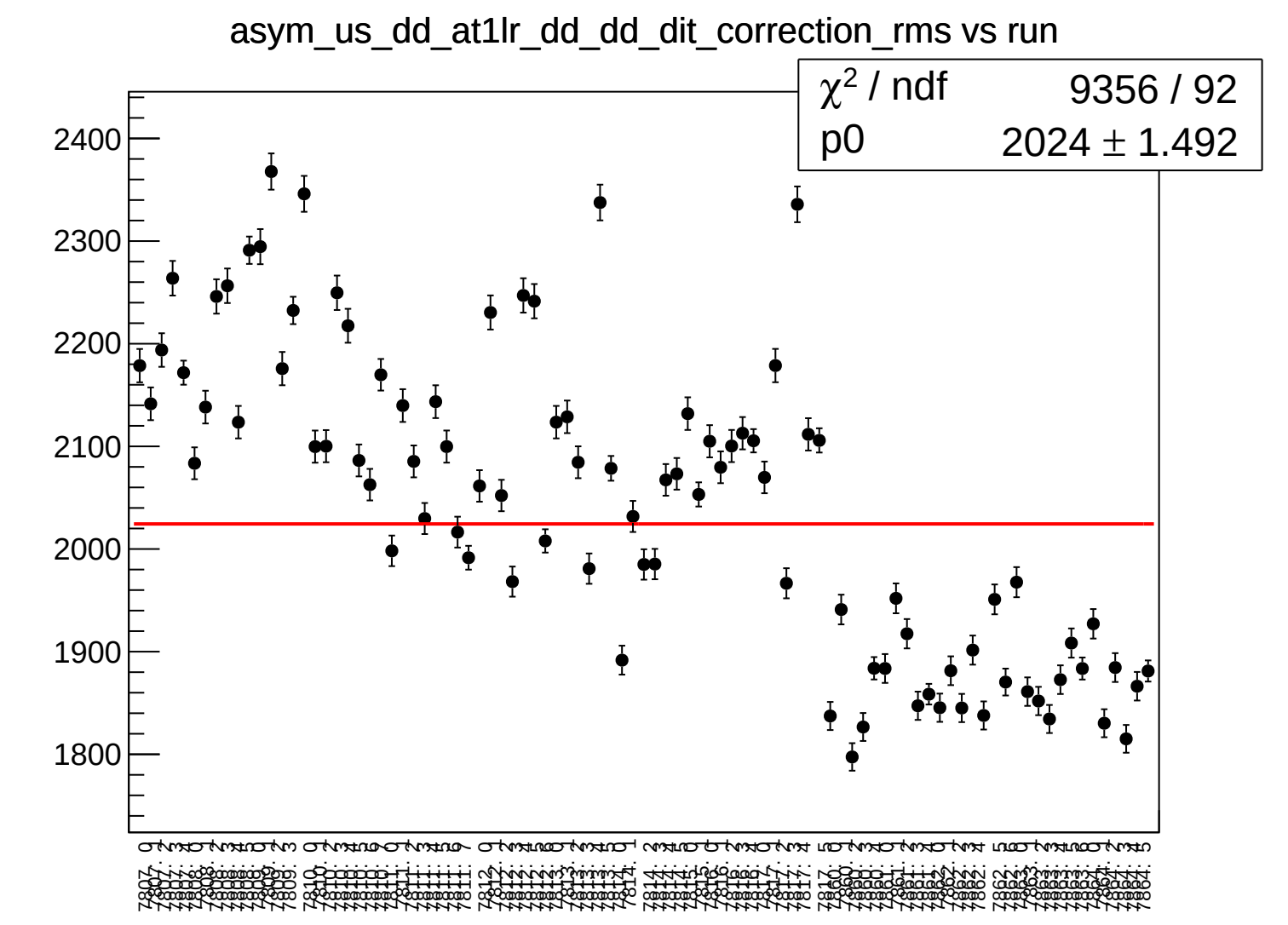

dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 68.42 / 92
p0 −1074 ± 1802
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −95.78
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

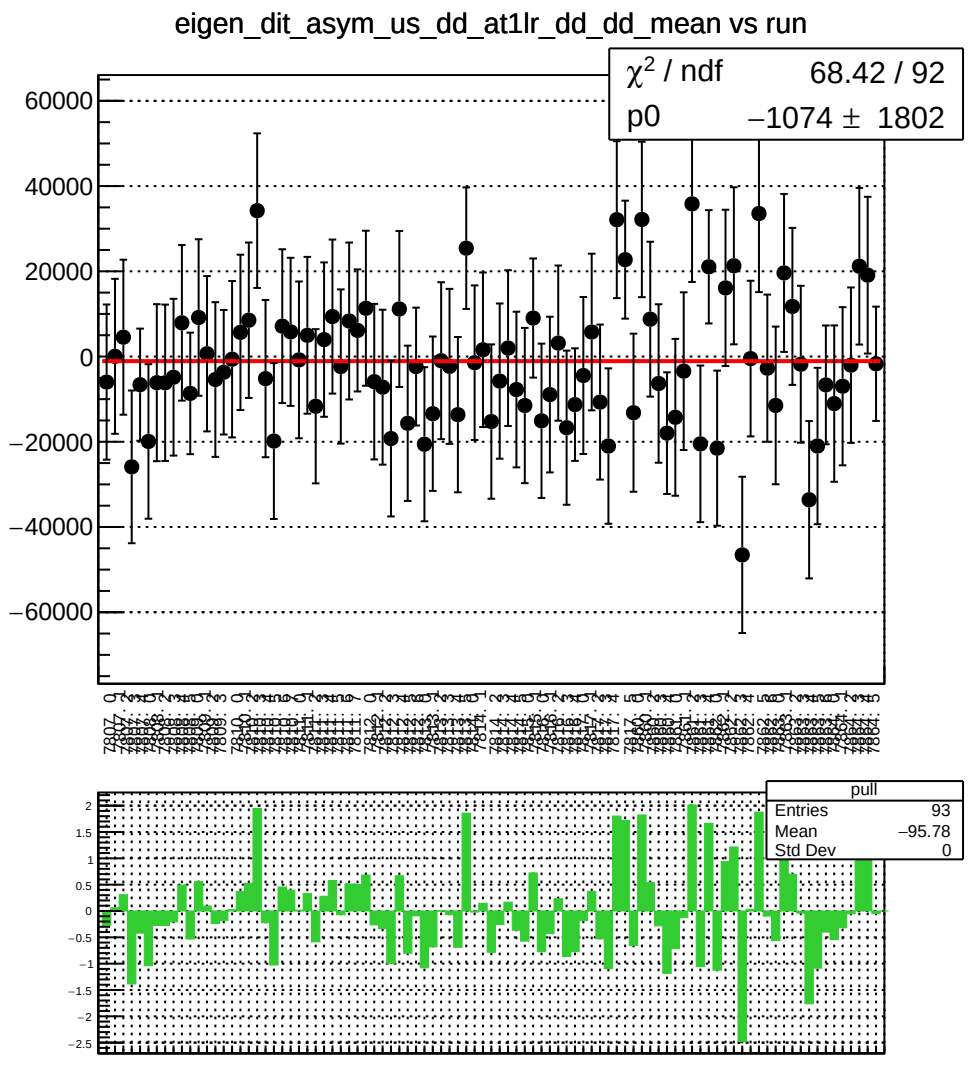

pull1D
Entries 93
Mean −0.009034
Std Dev 0.8577
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

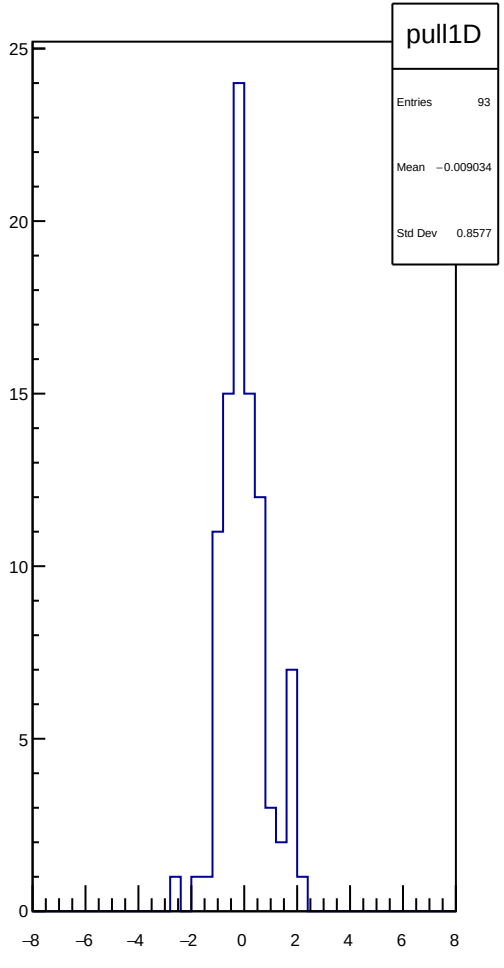

dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 87.11 / 92
p0 1734 ± 1.274
1780
1760
1740
1720
1700
1680

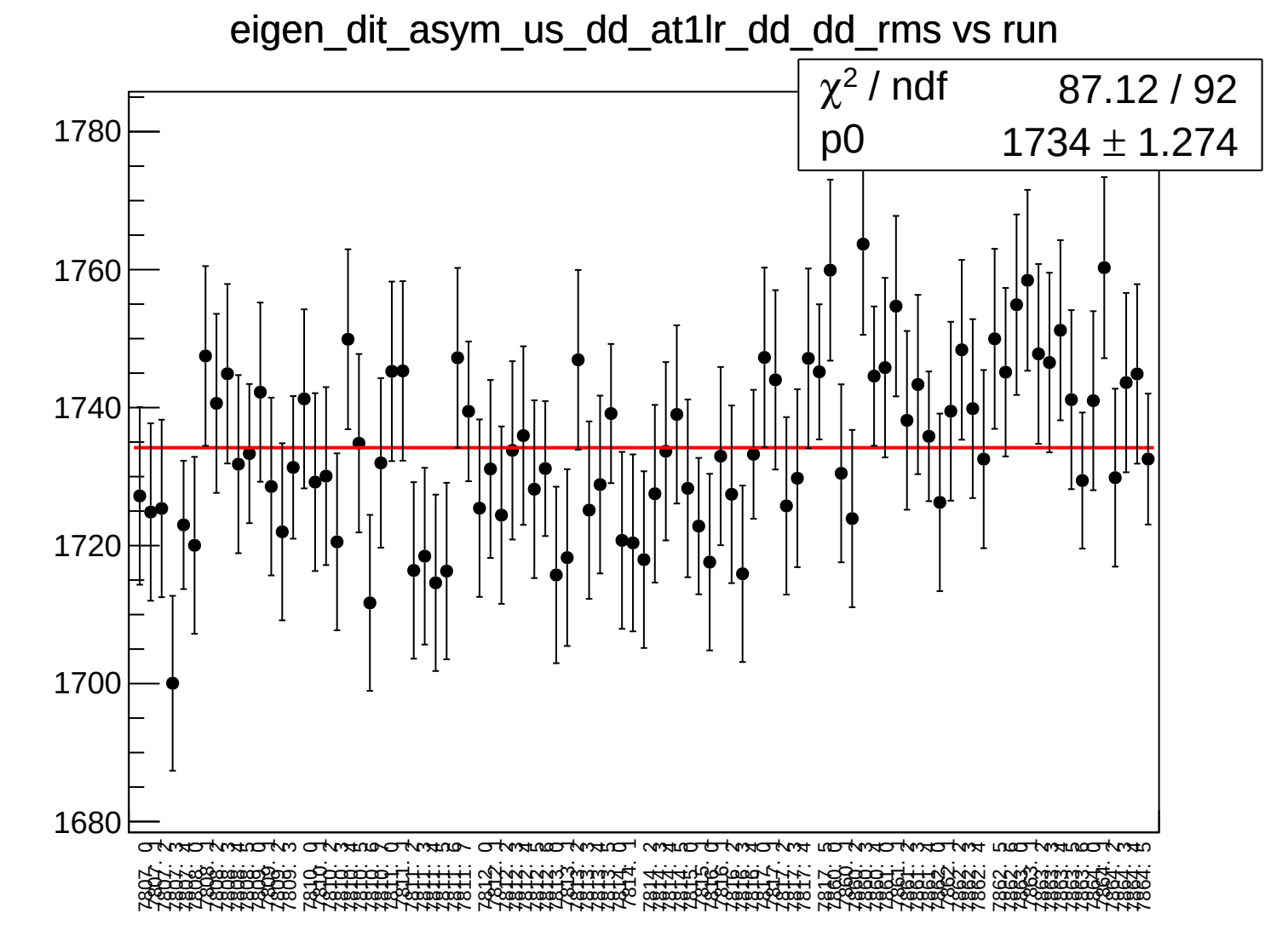

asym_us_dd_at1lr_dd_dd_dit_correction_mean vs run
χ² / ndf 84.6 / 92
p0 201.5 ± 2109
pull
Entries 93
Mean −20.74
Std Dev 79.14

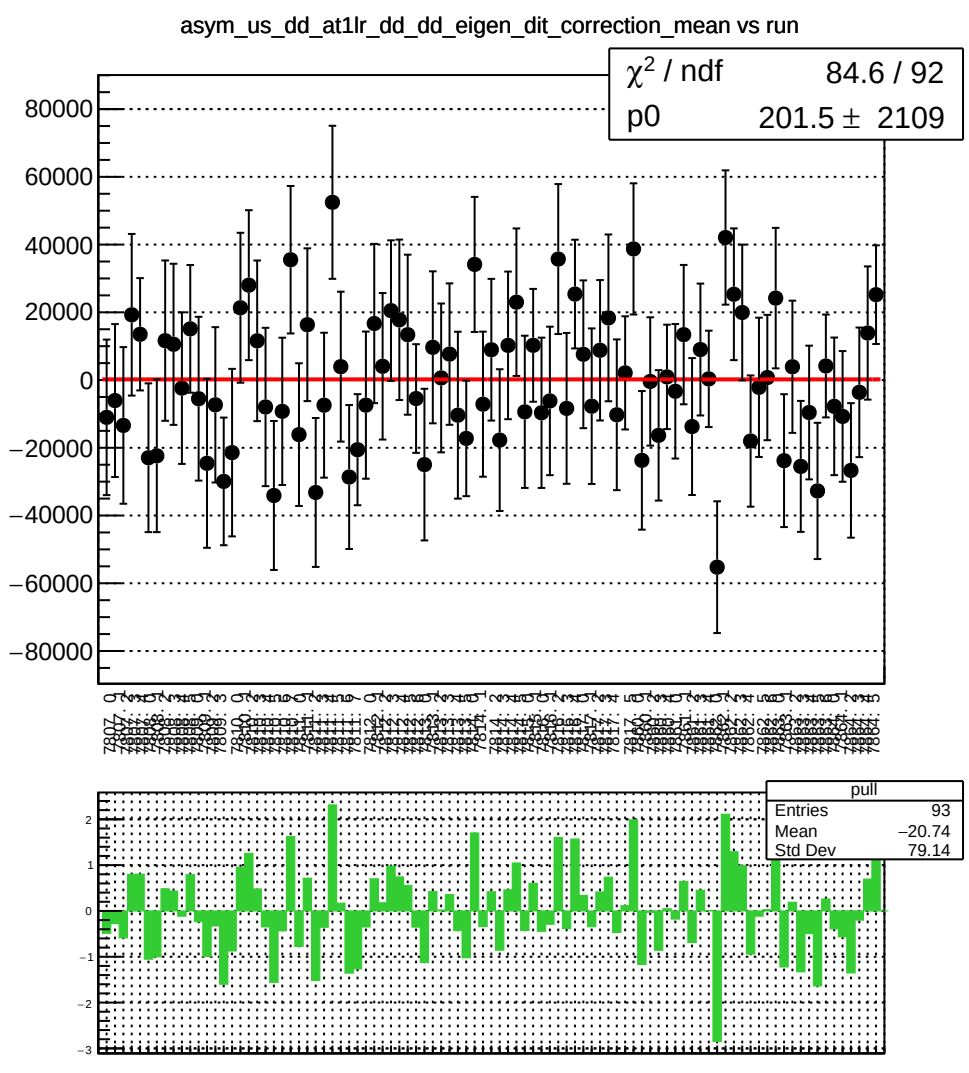

pull1D
Entries 93
Mean −0.007101
Std Dev 0.9537

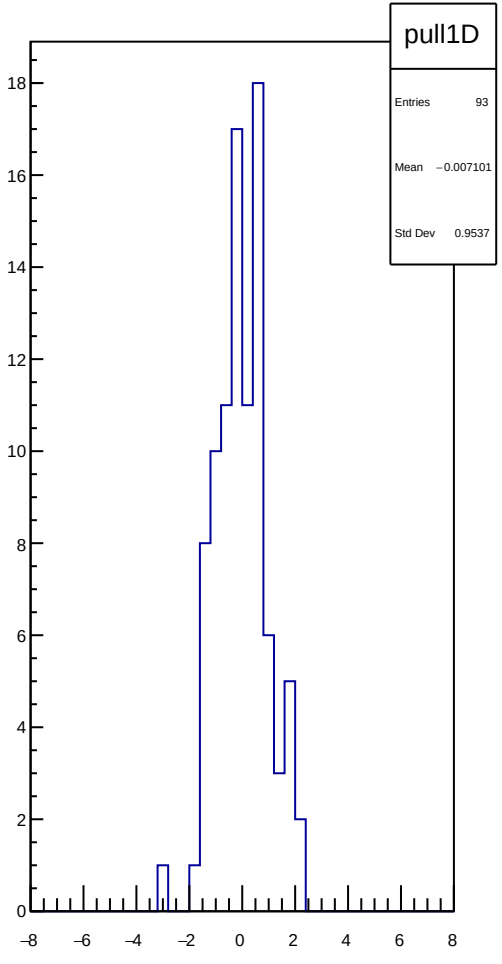

asym_us_dd_at1lr_dd_dd_dit_correction_rms vs run
χ² / ndf 9356 / 92
p0 2024 ± 1.492
2400
2300
2200
2100
2000
1900
1800

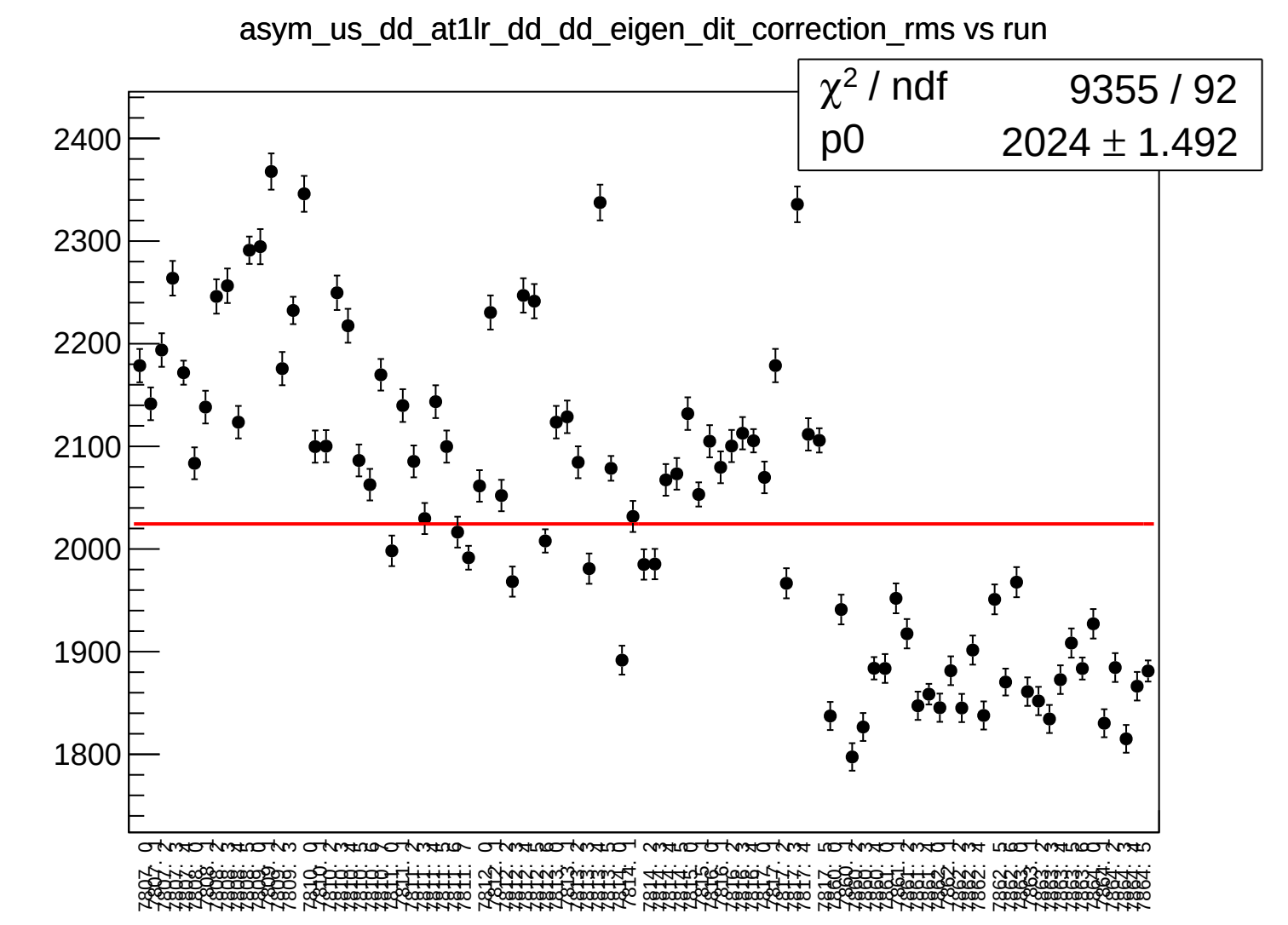

eigen_dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 68.42 / 92
p0 −1074 ± 1802
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −95.78
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

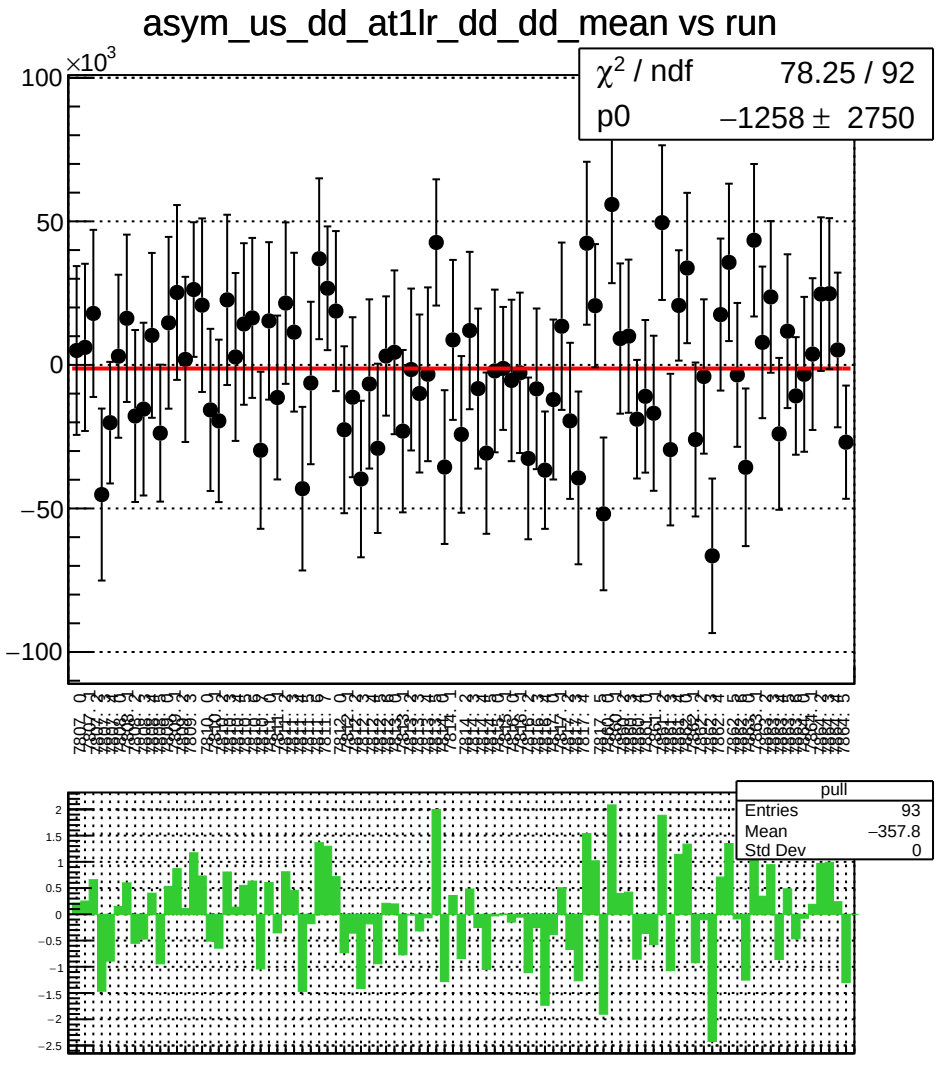

pull1D
Entries 93
Mean −0.009034
Std Dev 0.8577
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

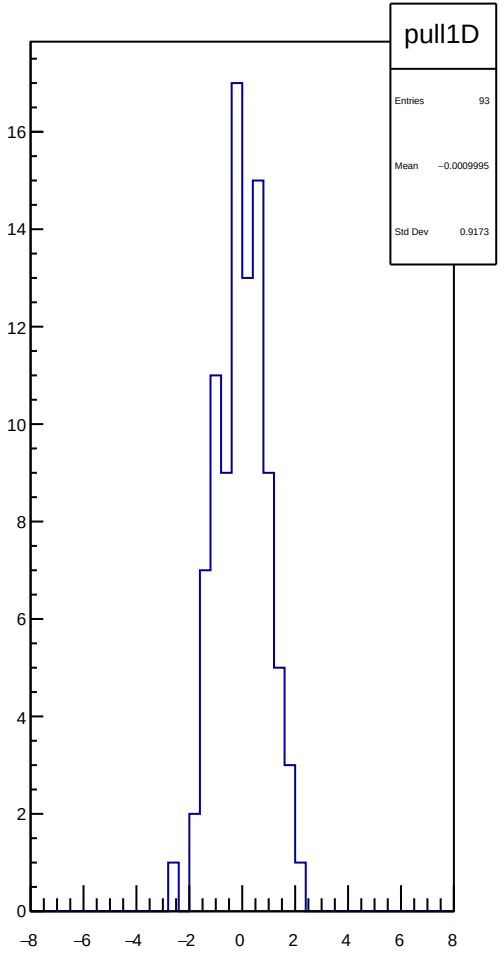

eigen_dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 87.12 / 92
p0 1734 ± 1.274
1780
1760
1740
1720
1700
1680

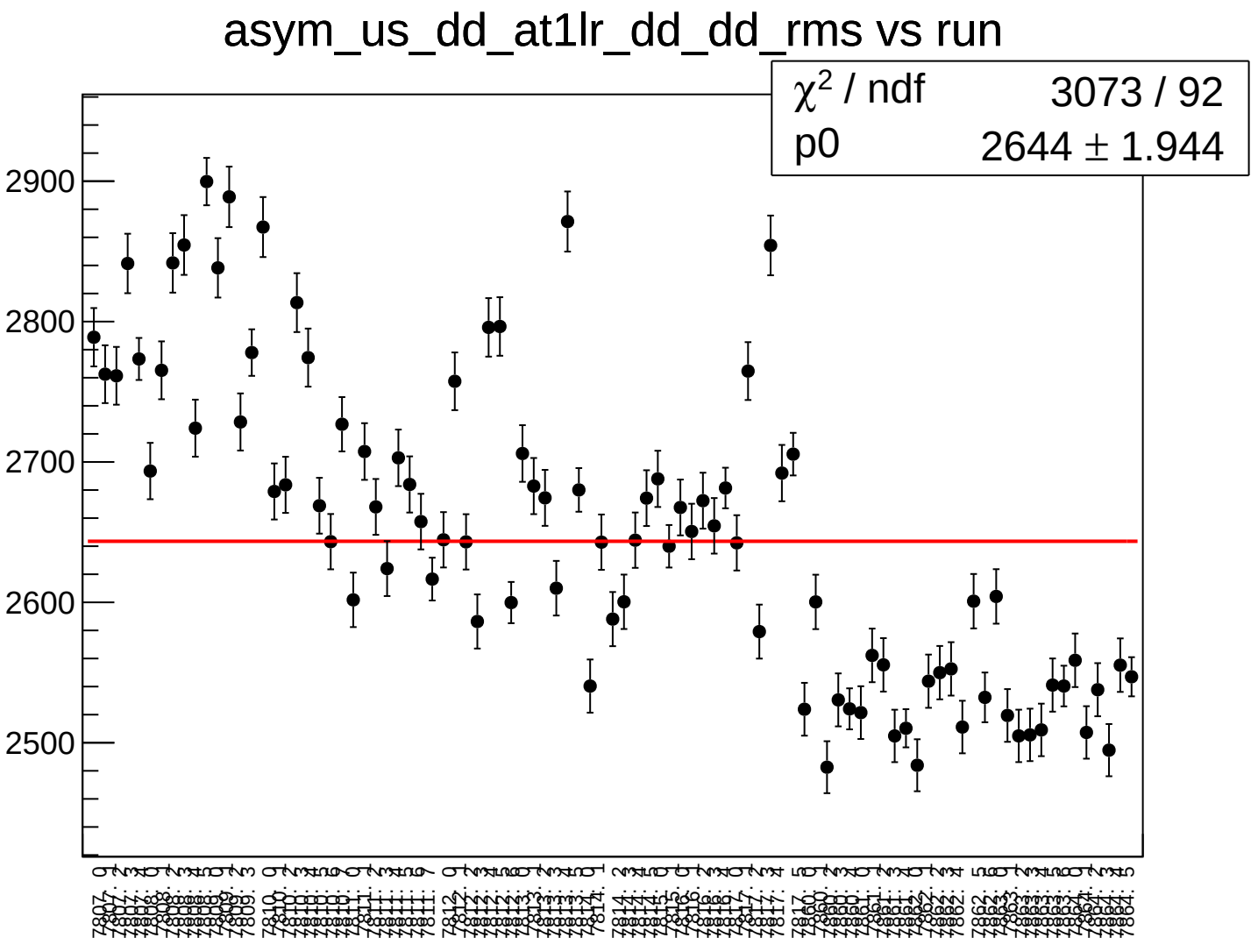

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 84.6 / 92
p0 201.5 ± 2109
pull
Entries 93
Mean −20.74
Std Dev 79.14

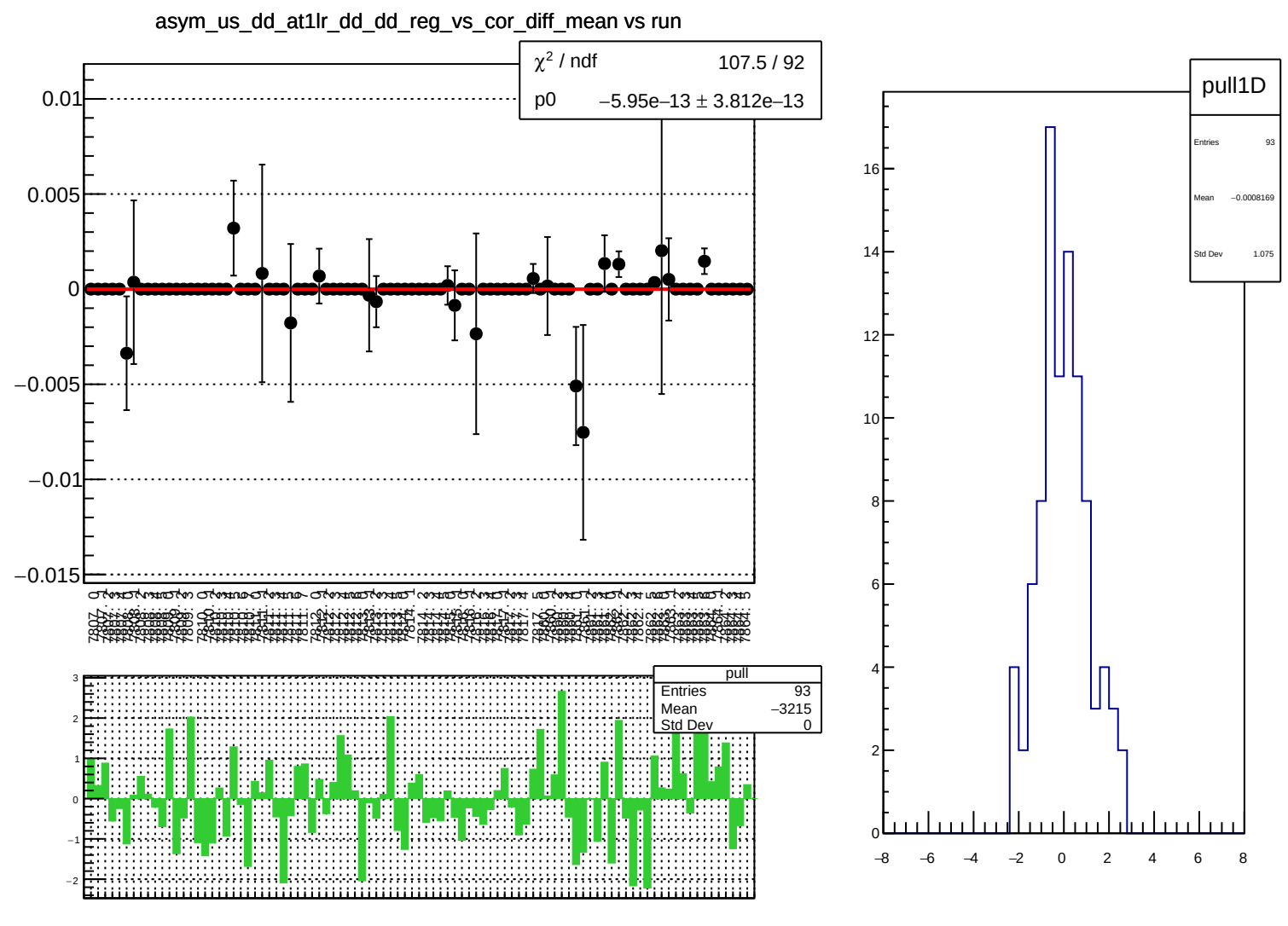

pull1D
Entries 93
Mean −0.007101
Std Dev 0.9537

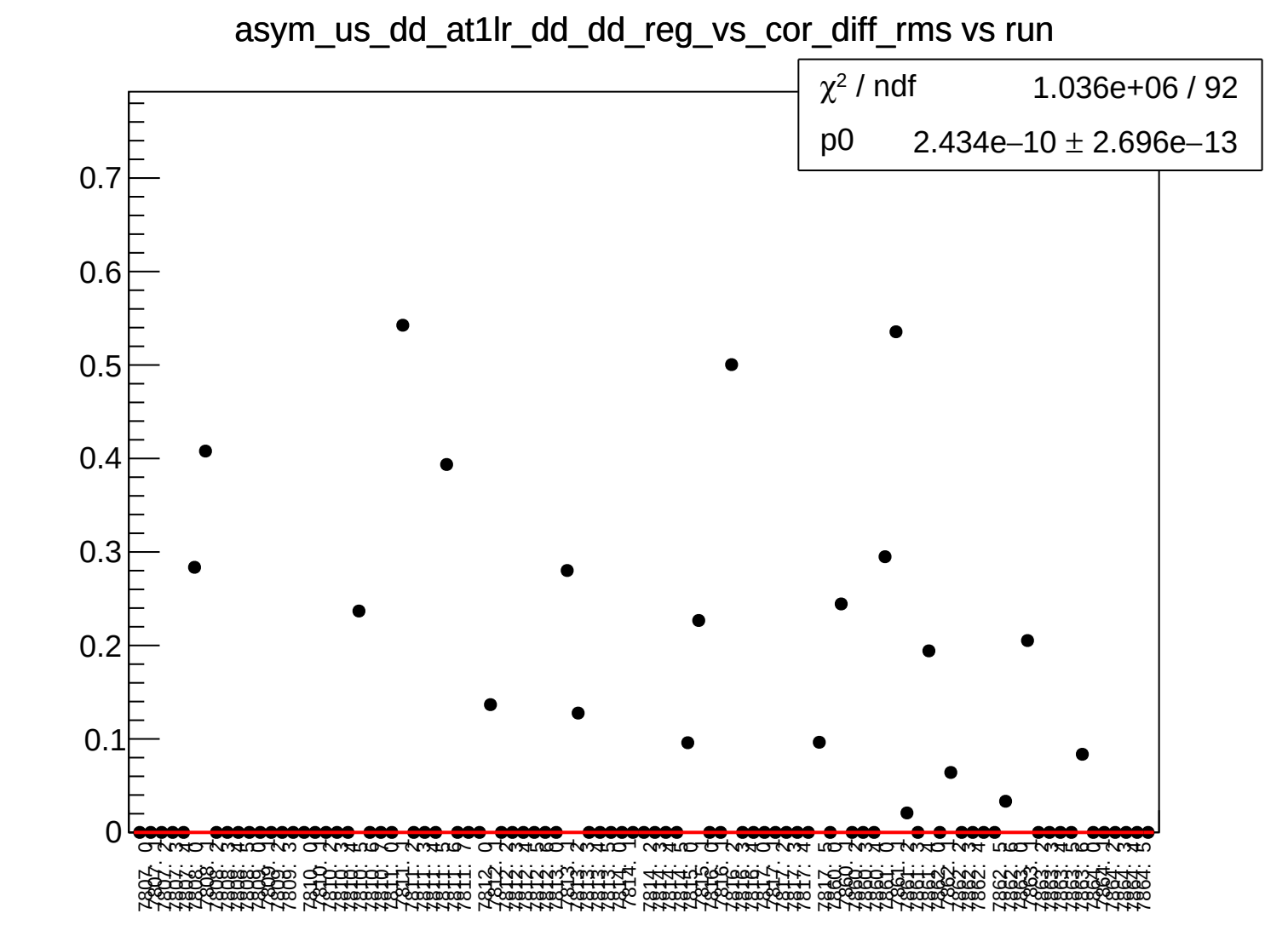

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 9355 / 92
p0 2024 ± 1.492
2400
2300
2200
2100
2000
1900
1800

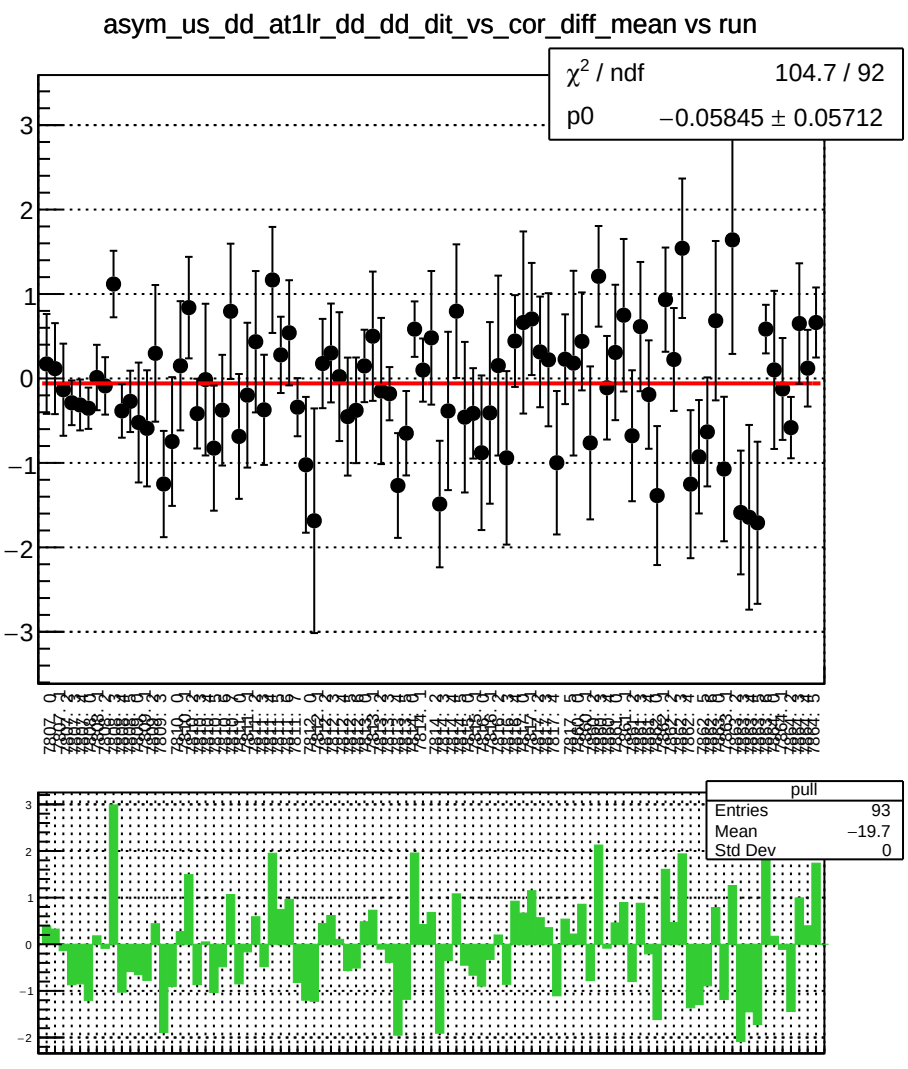

asym_us_dd_at1lr_dd_dd_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 78.25 / 92
p0 −1258 ± 2750
pull
Entries 93
Mean −357.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

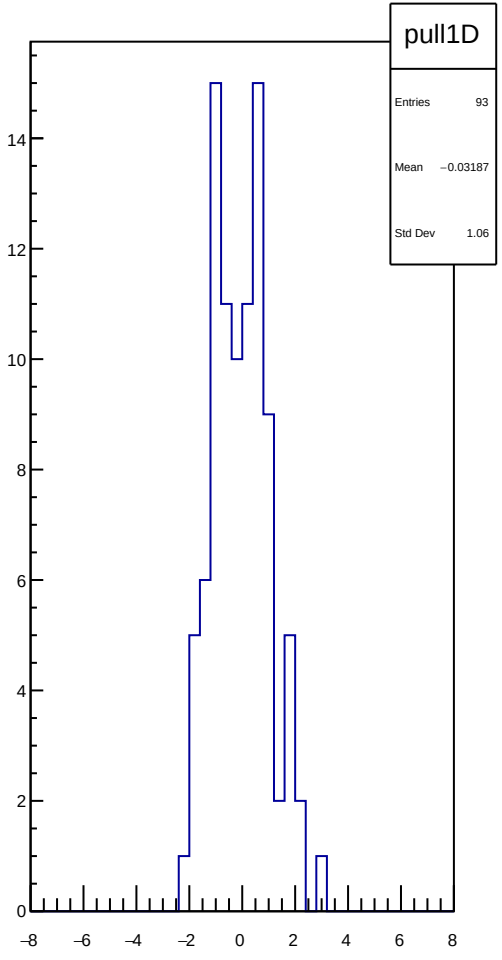

pull1D
Entries 93
Mean −0.0009995
Std Dev 0.9173
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

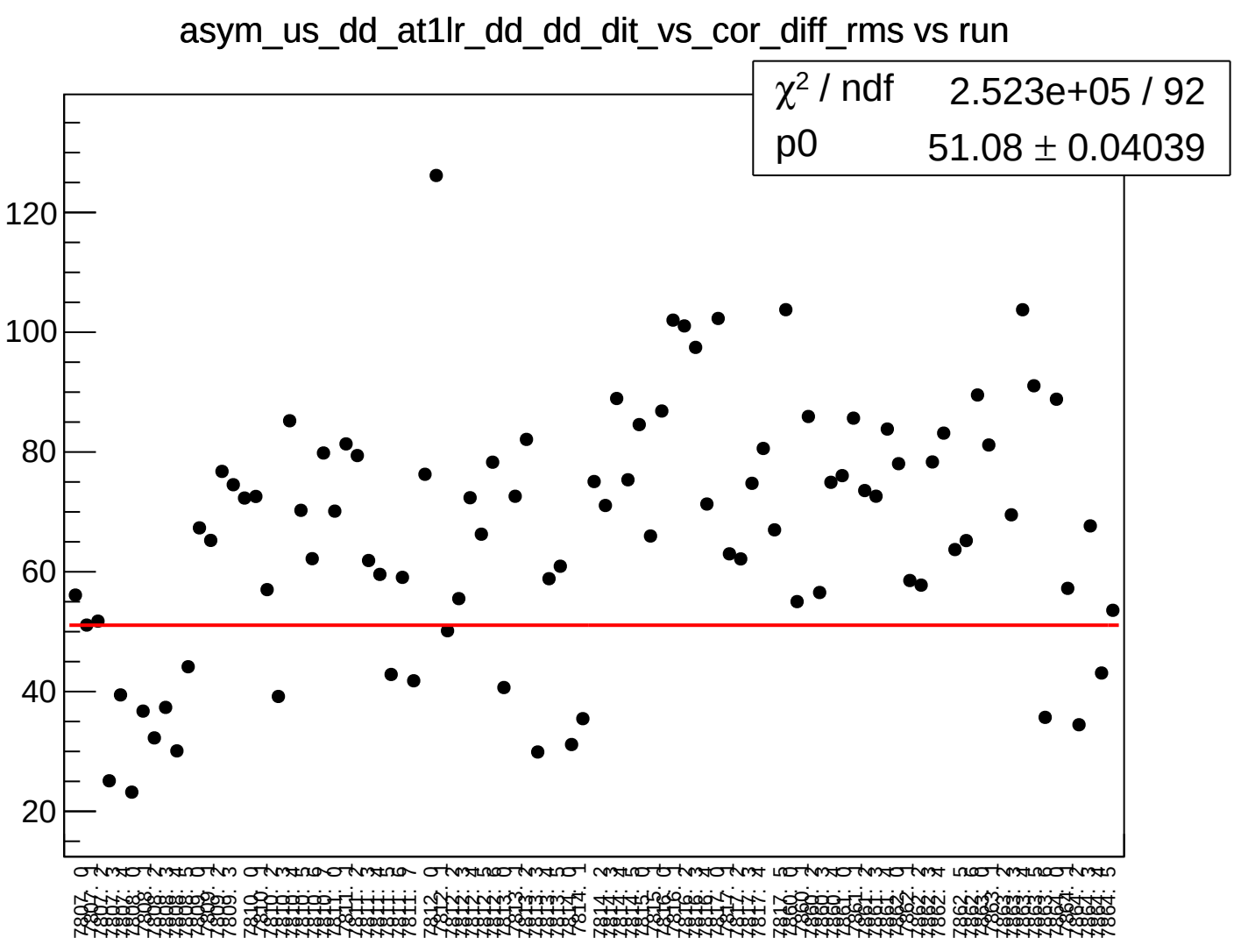

asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 3073 / 92
p0 2644 ± 1.944
2900
2800
2700
2600
2500

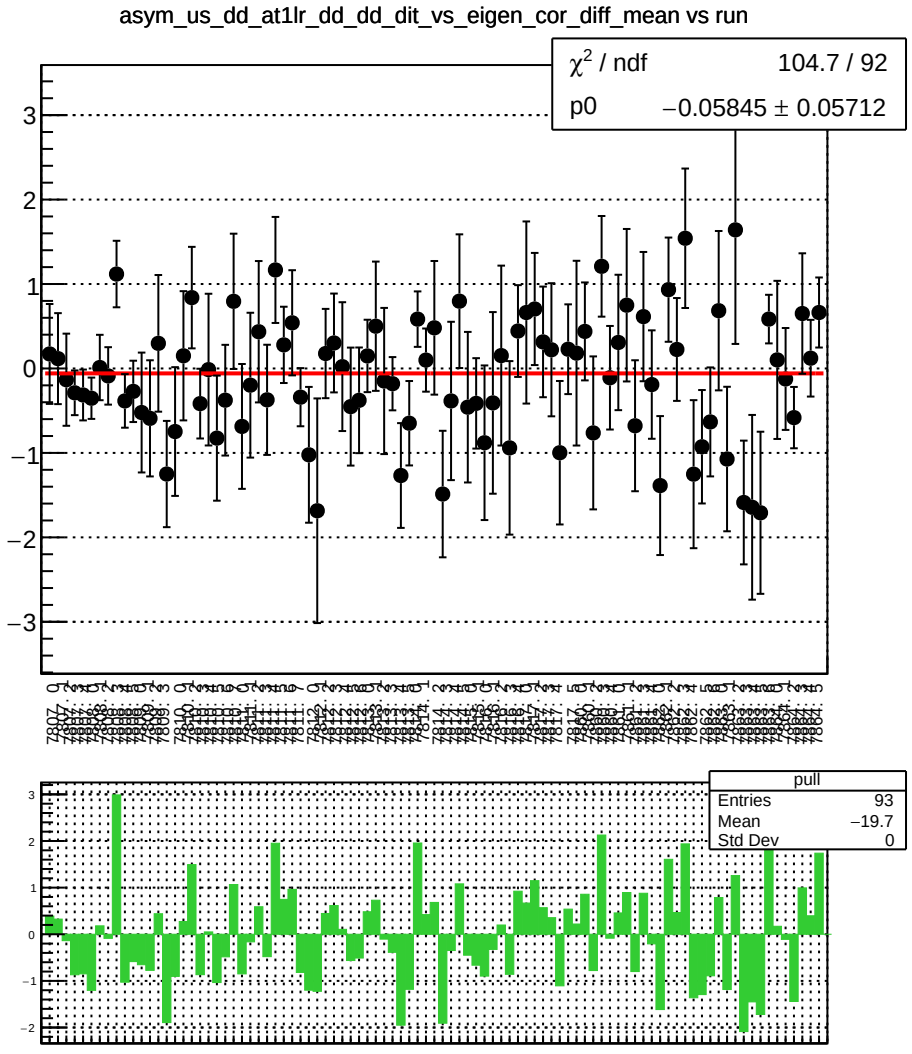

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 107.5 / 92
p0 −5.95e−13 ± 3.812e−13
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 93
Mean −3215
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.0008169
Std Dev 1.075
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

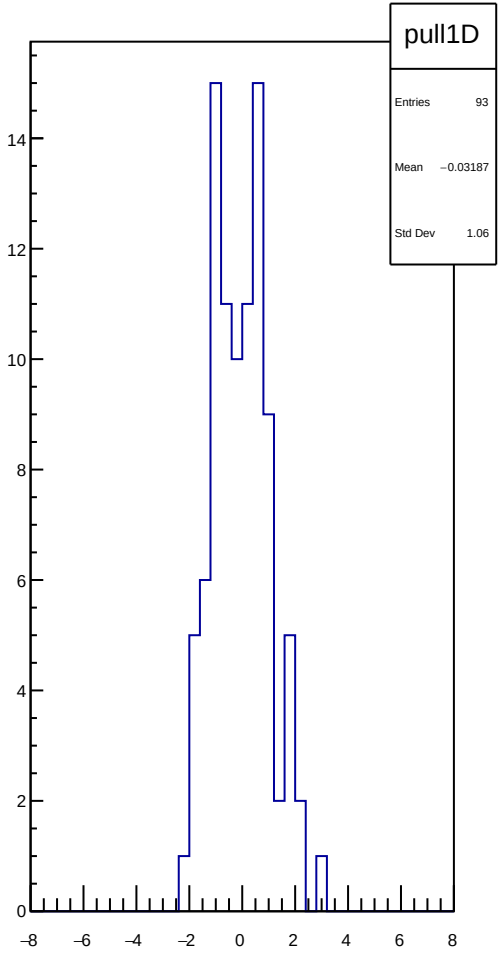

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.036e+06 / 92
p0 2.434e−10 ± 2.696e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

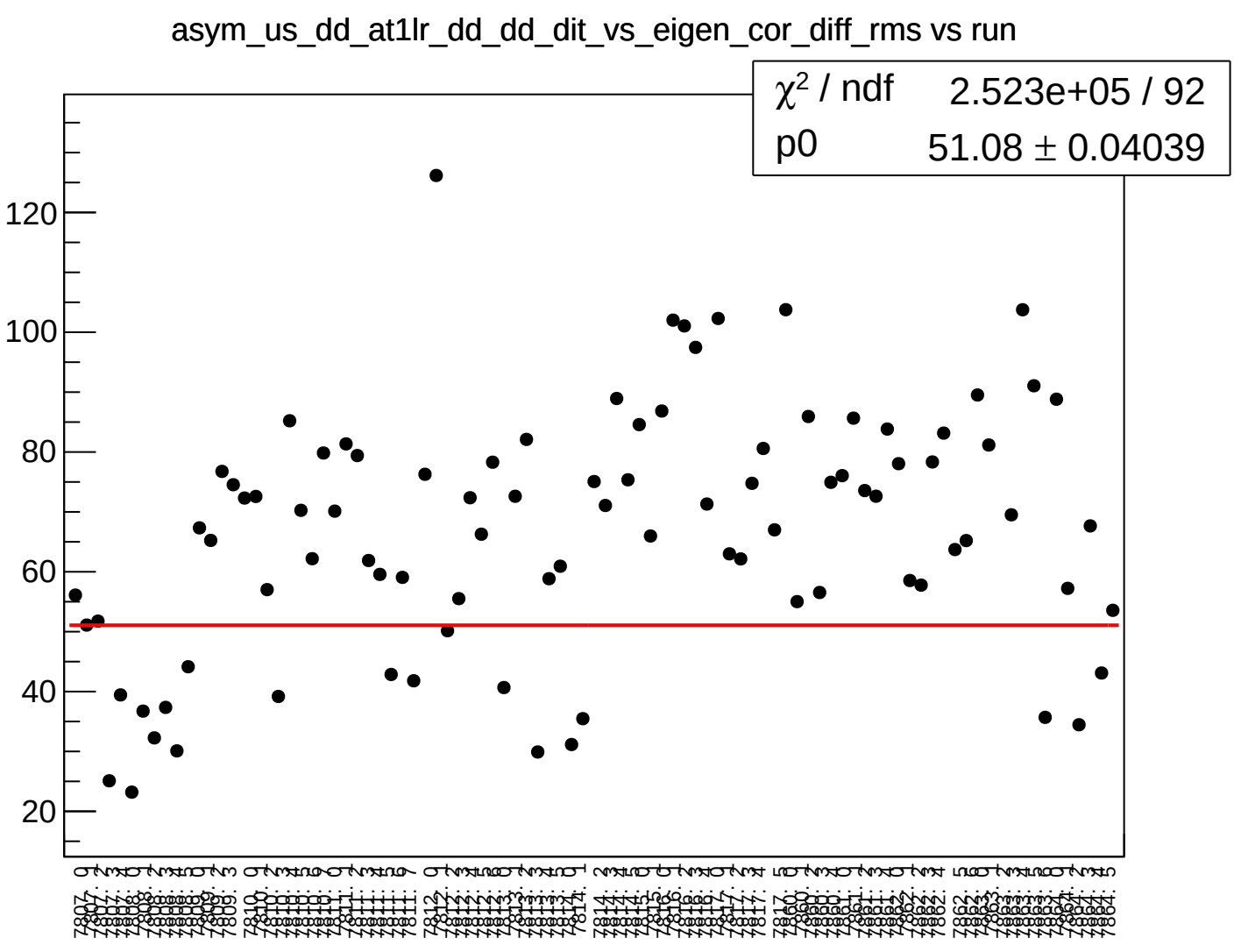

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 104.7 / 92
p0 −0.05845 ± 0.05712
pull
Entries 93
Mean −19.7
Std Dev 0

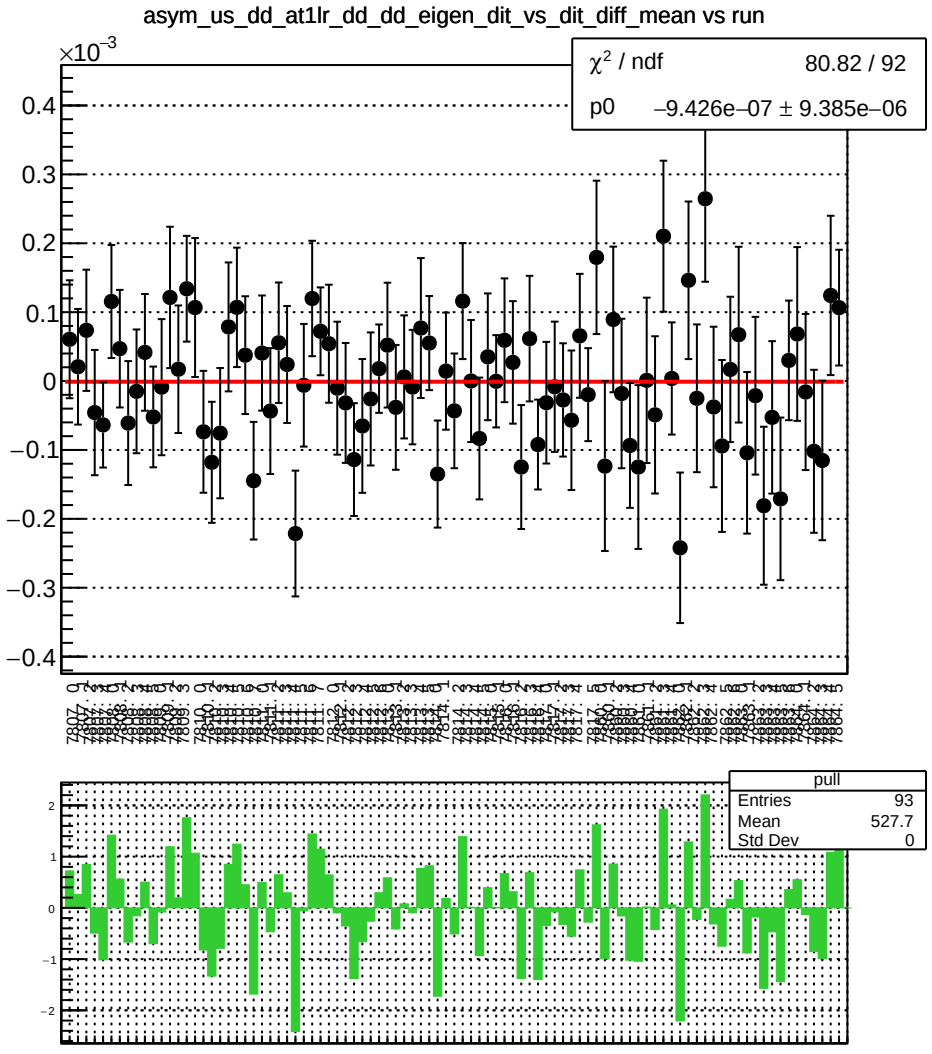

pull1D
Entries 93
Mean −0.03187
Std Dev 1.06

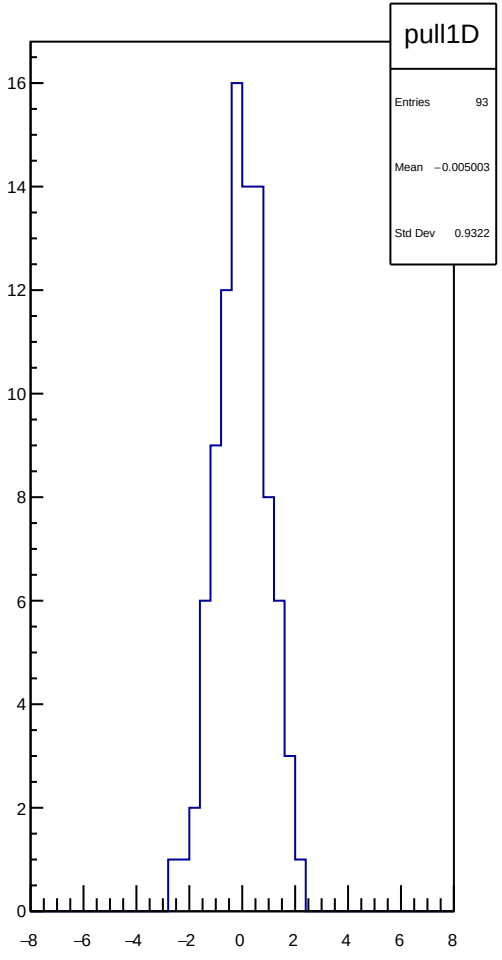

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.523e+05 / 92
p0 51.08 ± 0.04039
120
100
80
60
40
20

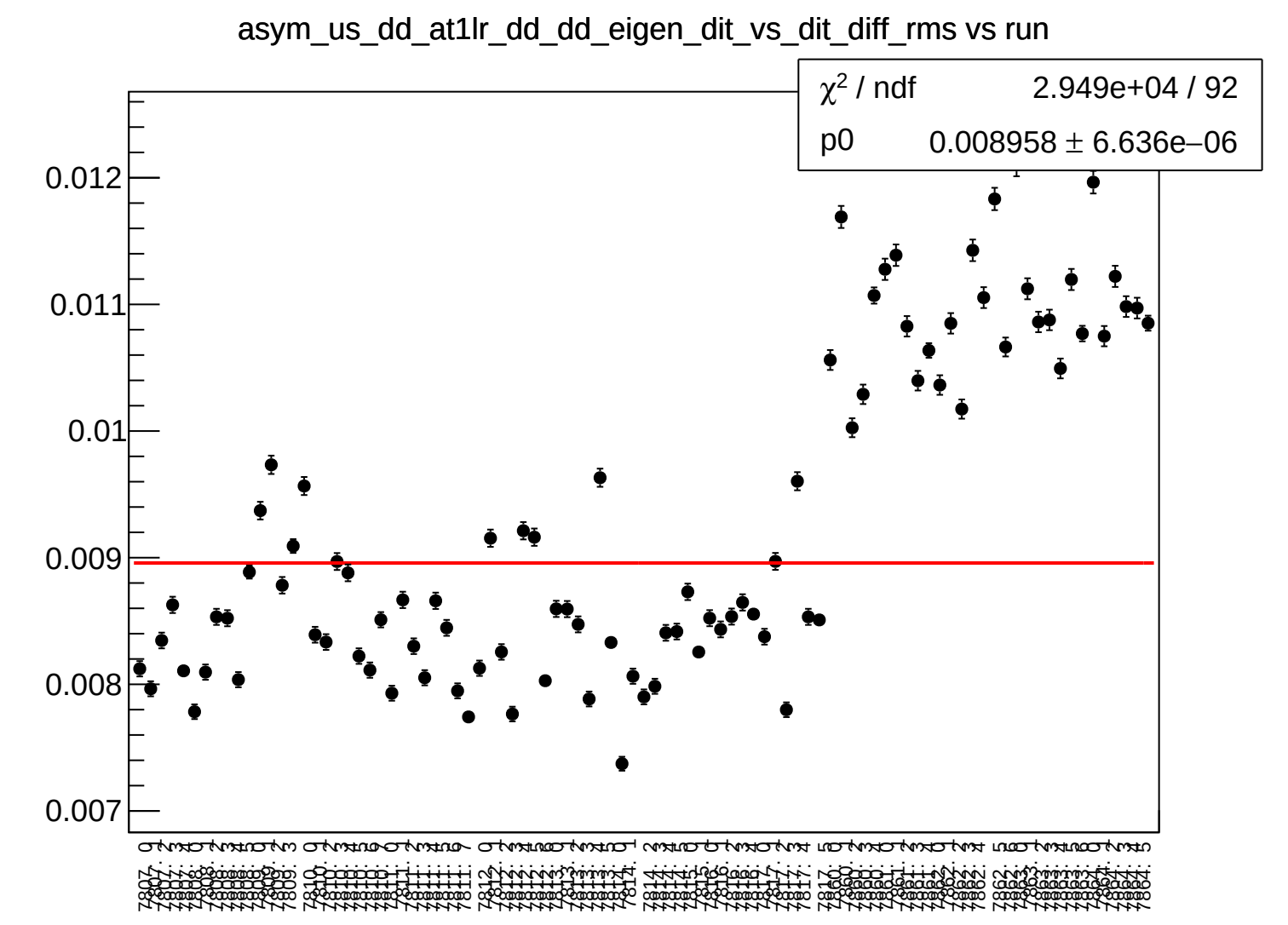

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.7 / 92
p0 −0.05845 ± 0.05712
pull
Entries 93
Mean −19.7
Std Dev 0

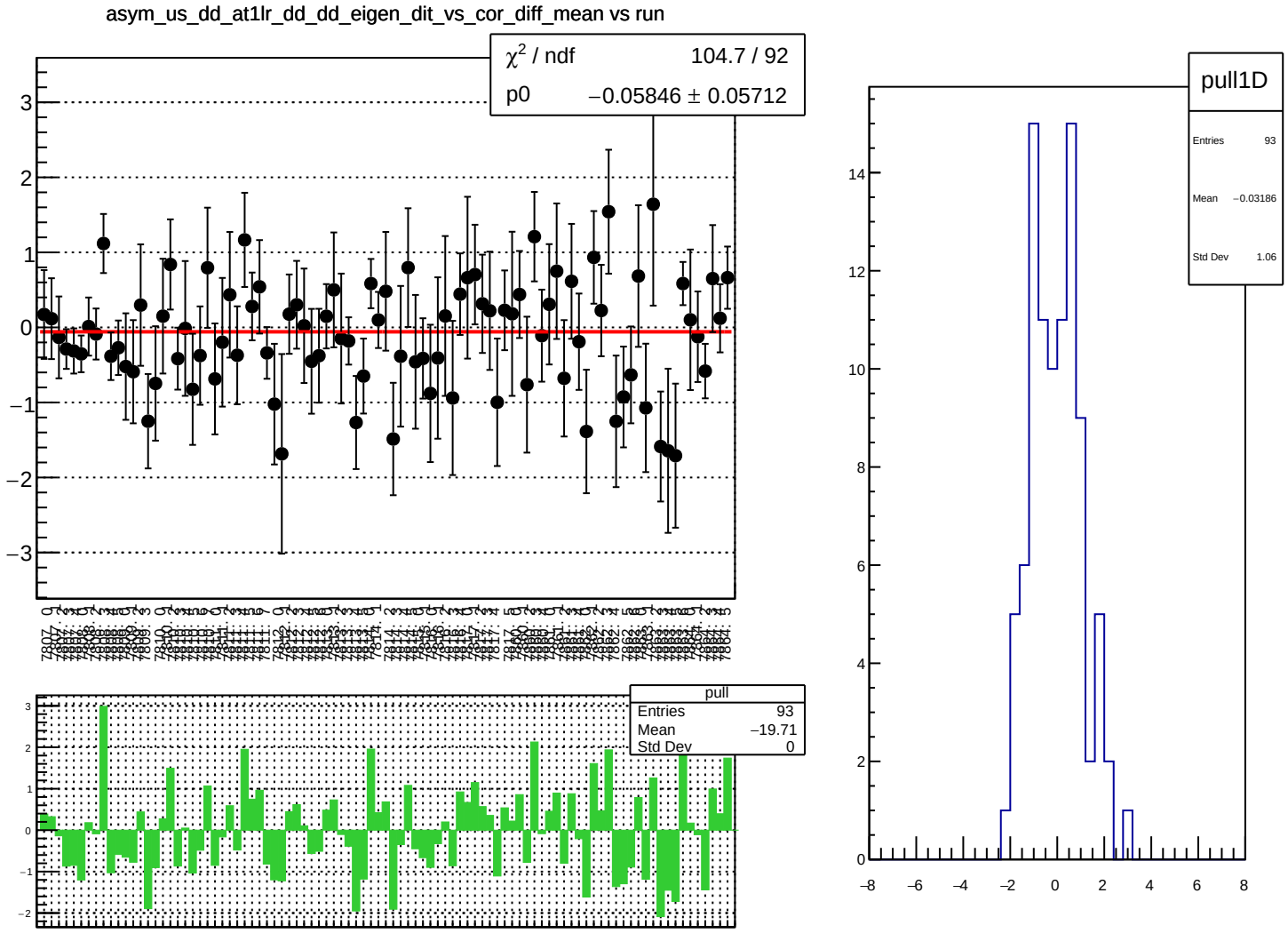

pull1D
Entries 93
Mean −0.03187
Std Dev 1.06

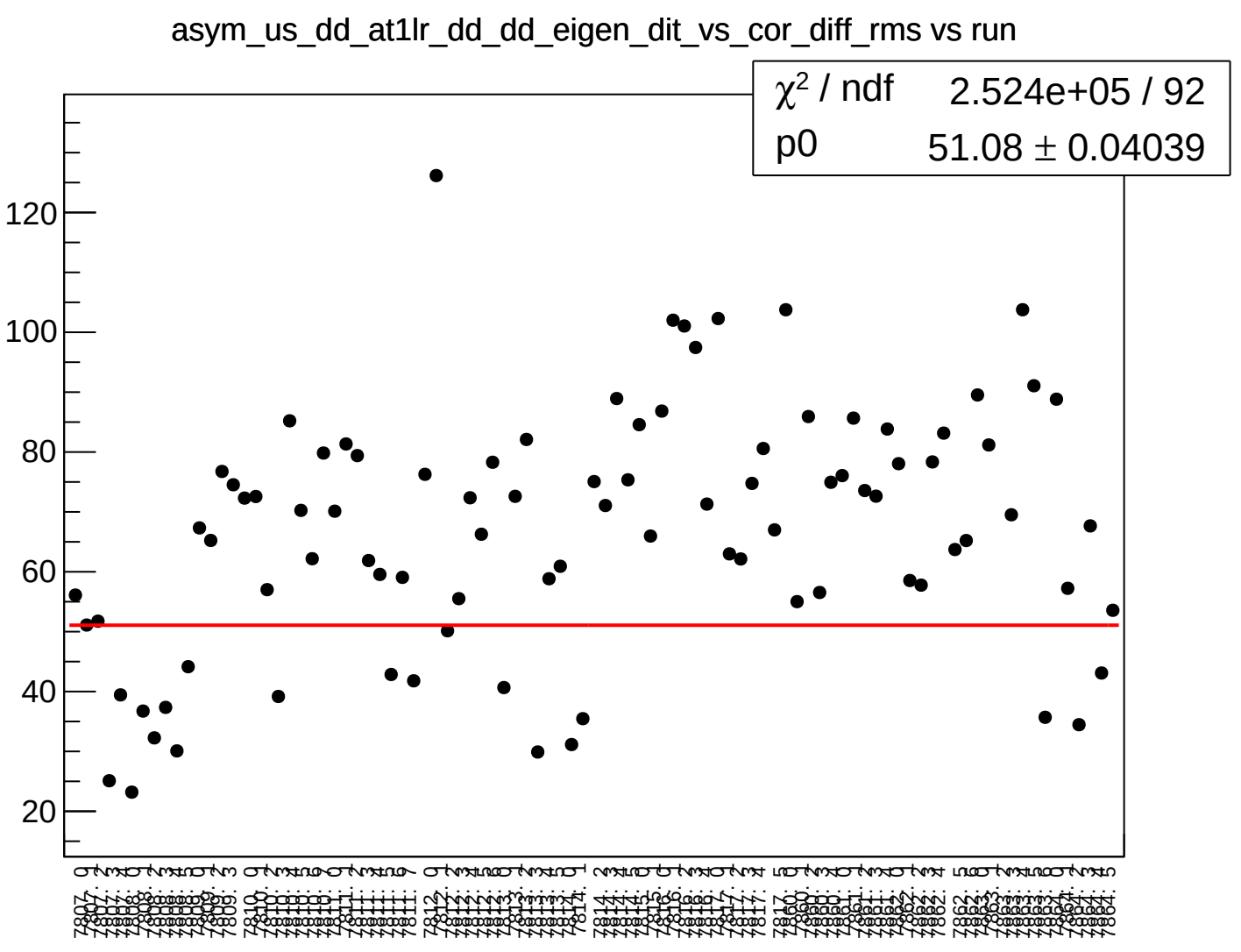

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.523e+05 / 92
p0 51.08 ± 0.04039
120
100
80
60
40
20

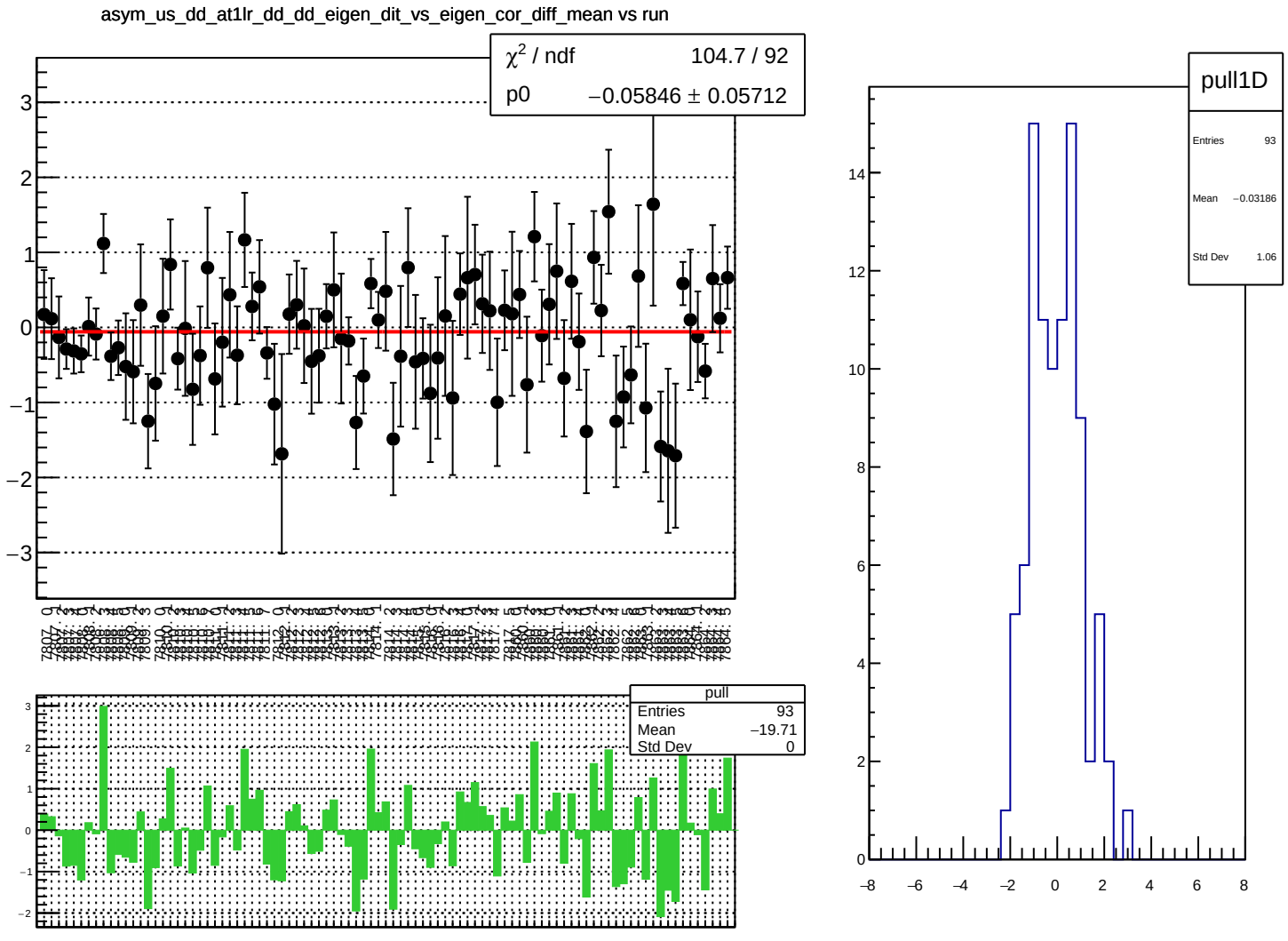

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 80.82 / 92
p0 −9.426e−07 ± 9.385e−06
pull
Entries 93
Mean 527.7
Std Dev 0

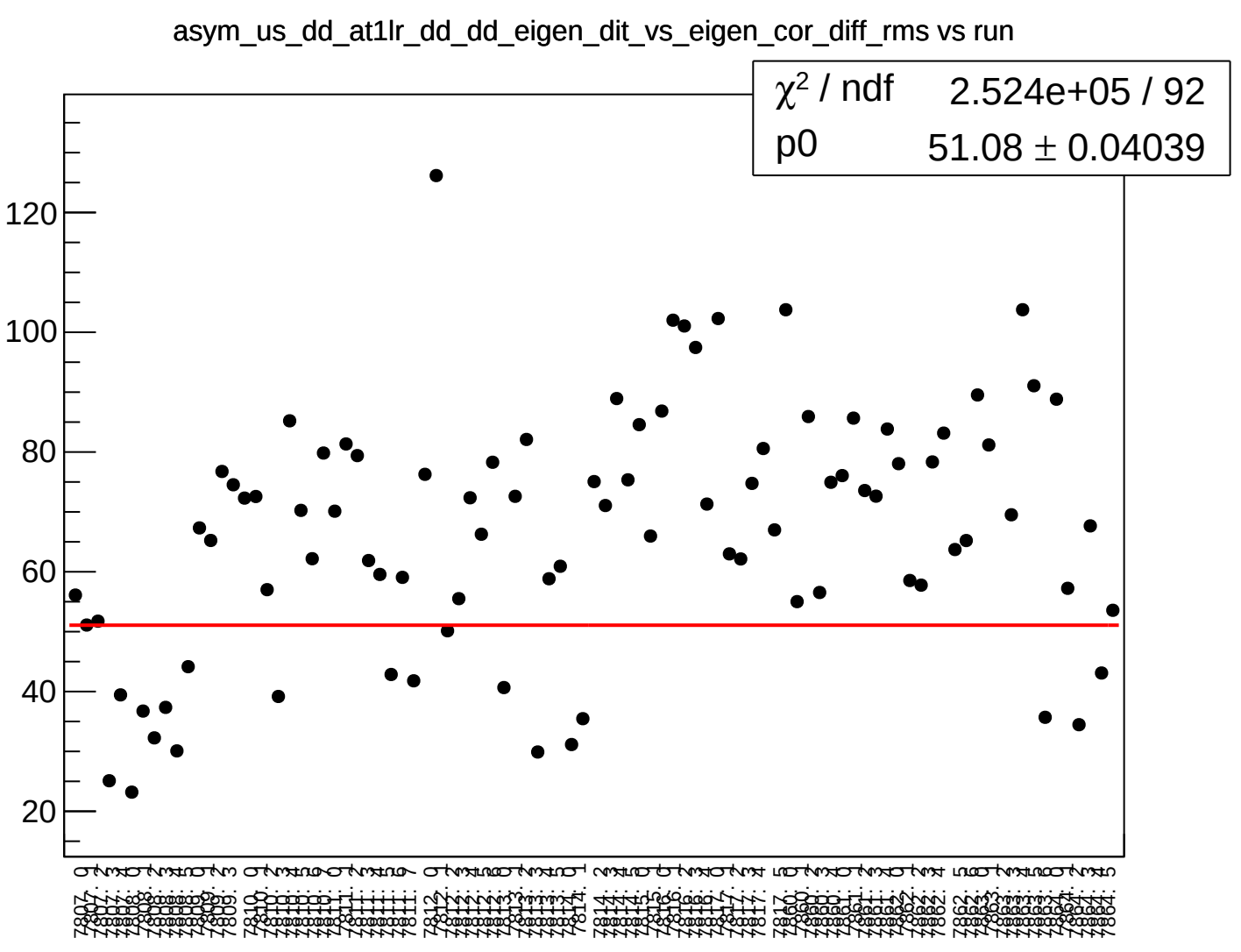

pull1D
Entries 93
Mean −0.005003
Std Dev 0.9322

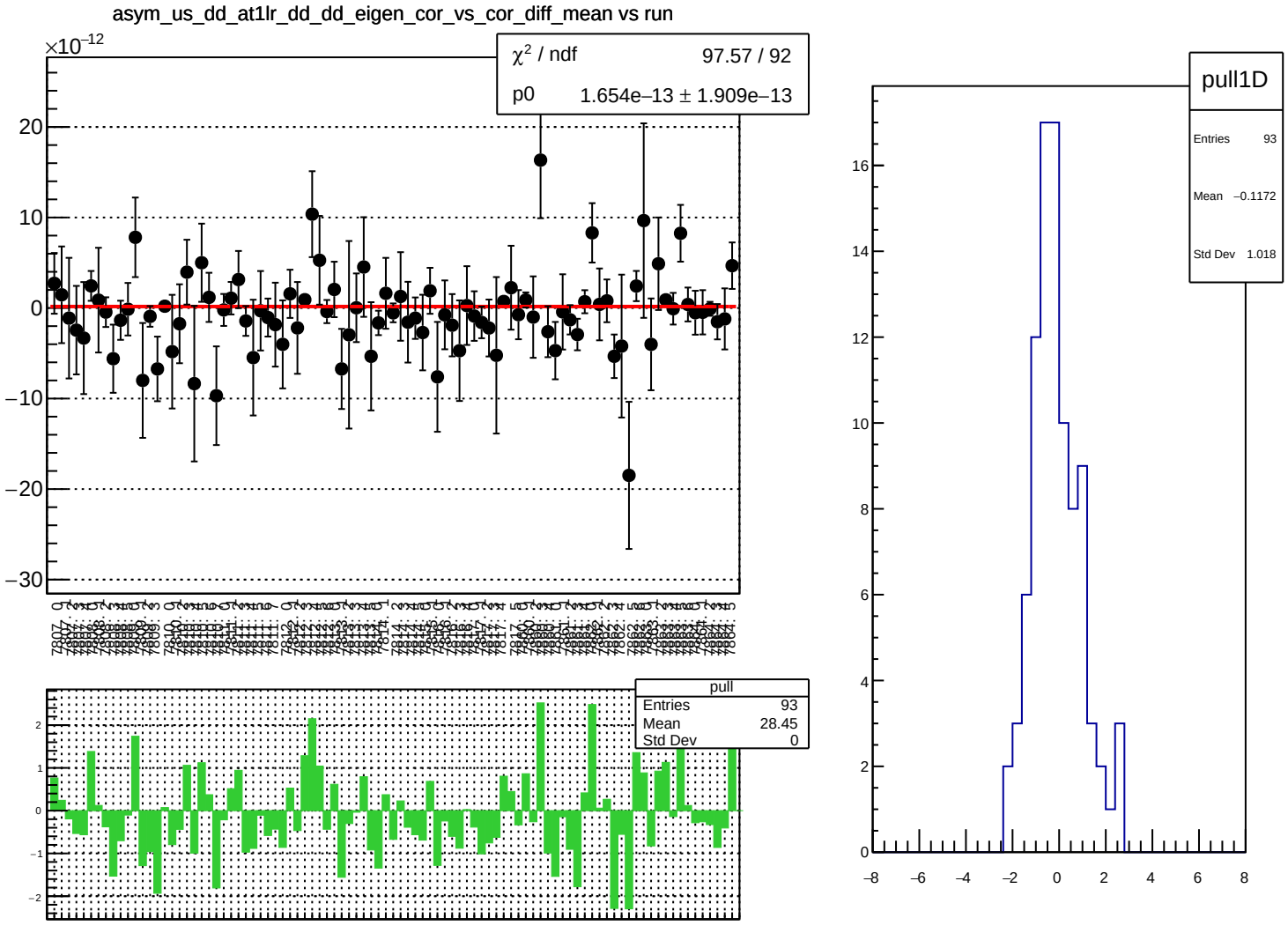

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.949e+04 / 92
p0 0.008958 ± 6.636e−06
0.012
0.011
0.01
0.009
0.008
0.007

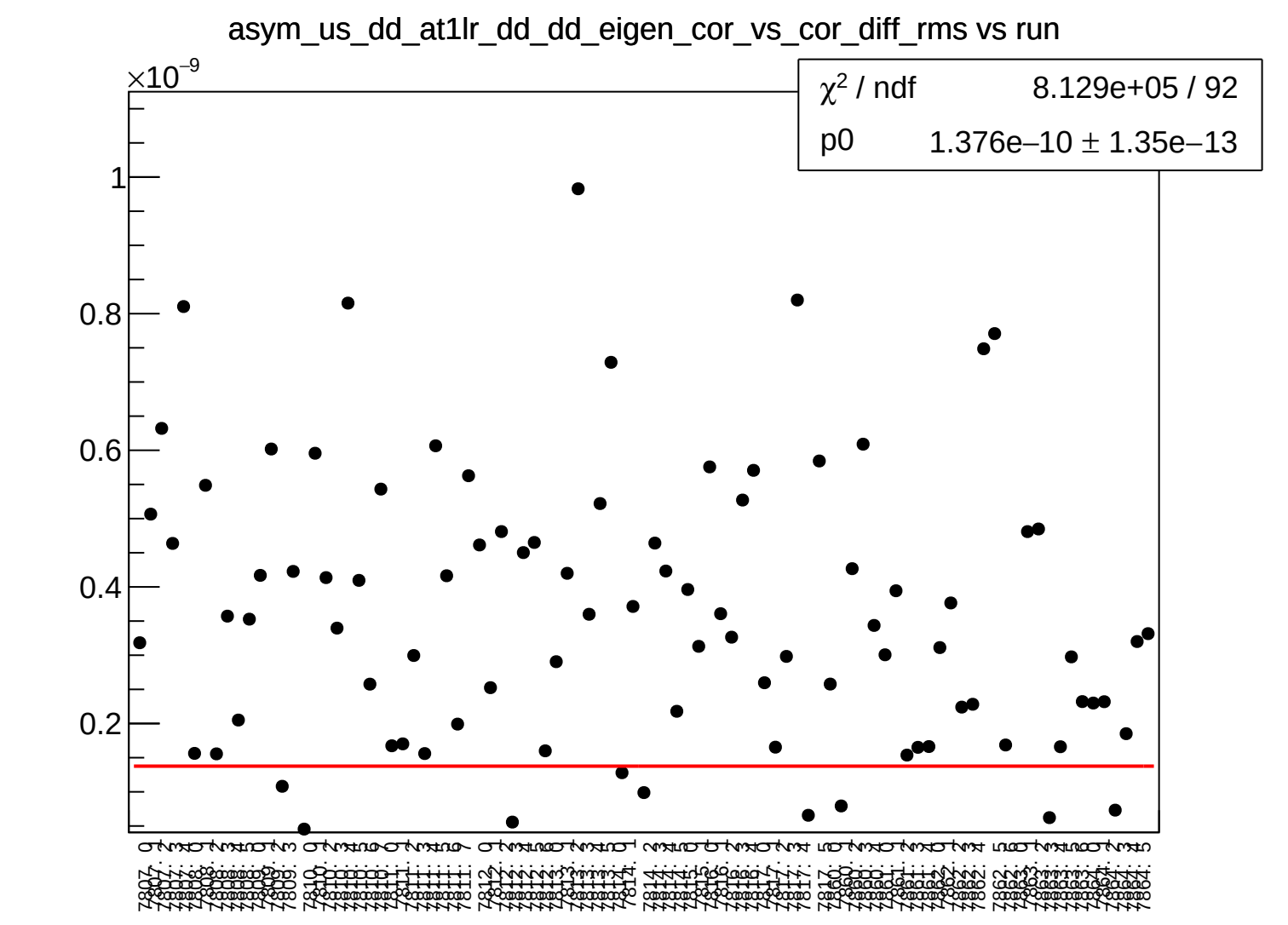

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 104.7 / 92
p0 −0.05846 ± 0.05712
pull
Entries 93
Mean −19.71
Std Dev 0
pull1D
Entries 93
Mean −0.03186
Std Dev 1.06

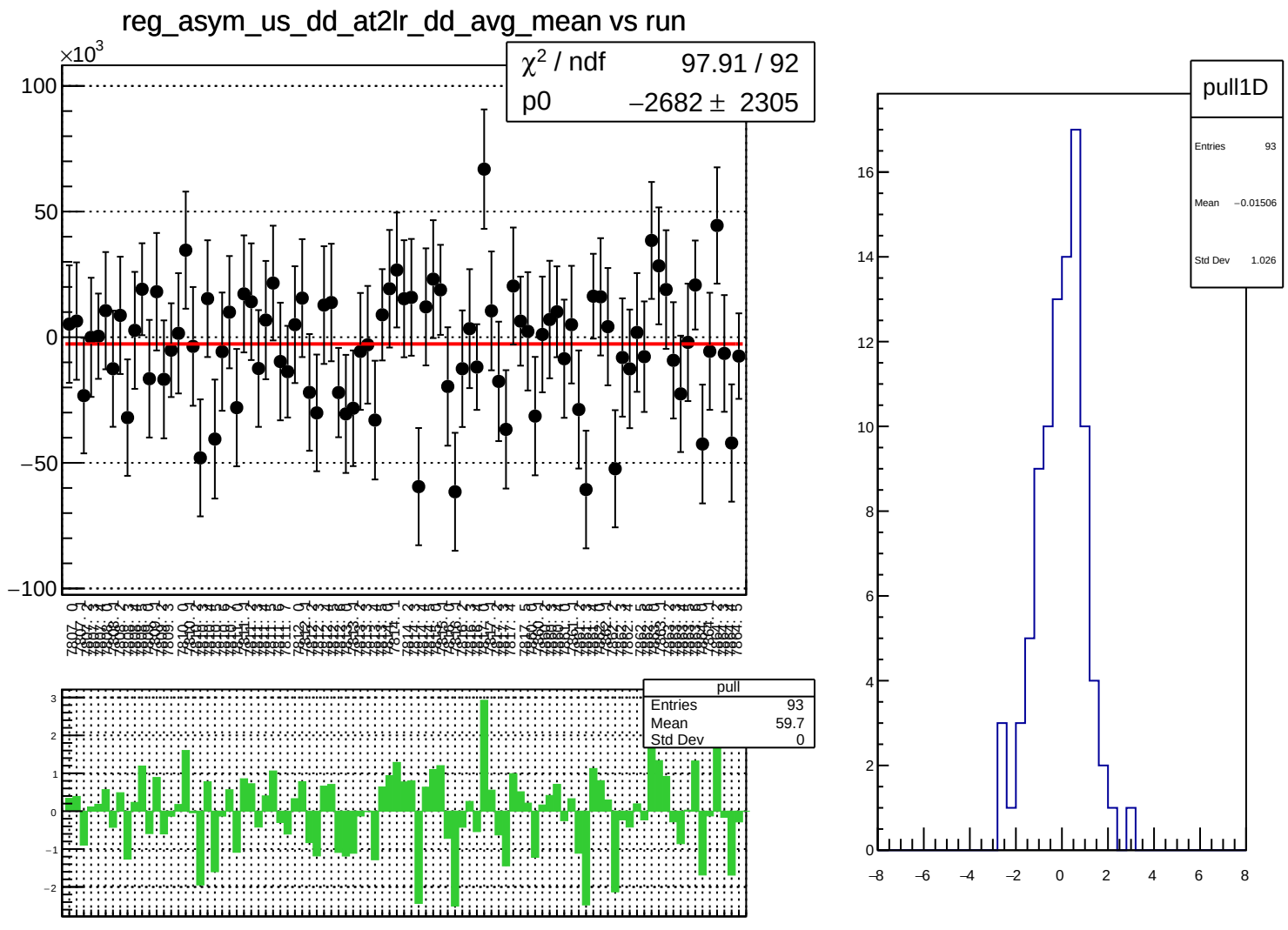

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.524e+05 / 92
p0 51.08 ± 0.04039
120
100
80
60
40
20

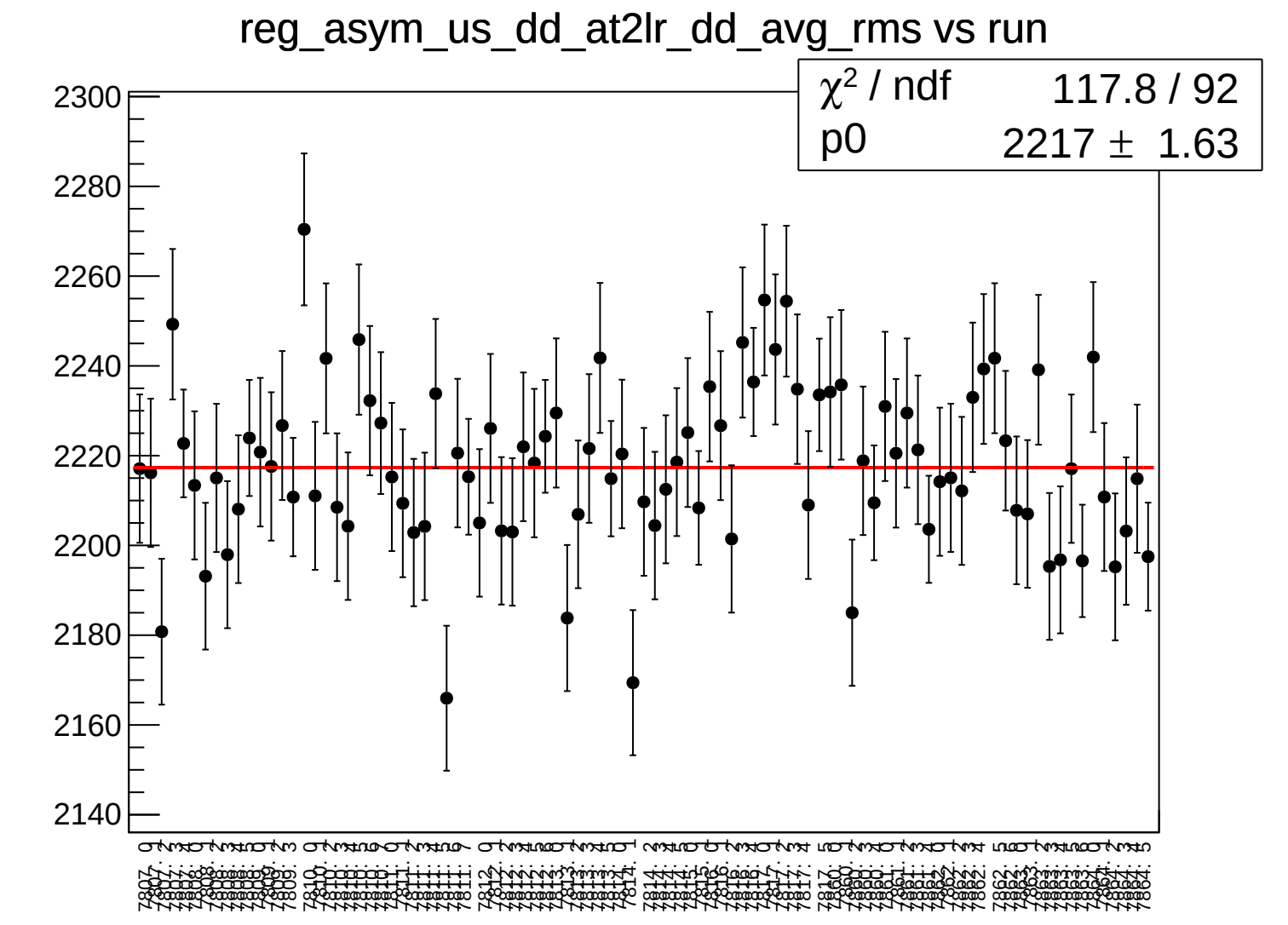

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.7 / 92
p0 −0.05846 ± 0.05712
pull
Entries 93
Mean −19.71
Std Dev 0
pull1D
Entries 93
Mean −0.03186
Std Dev 1.06

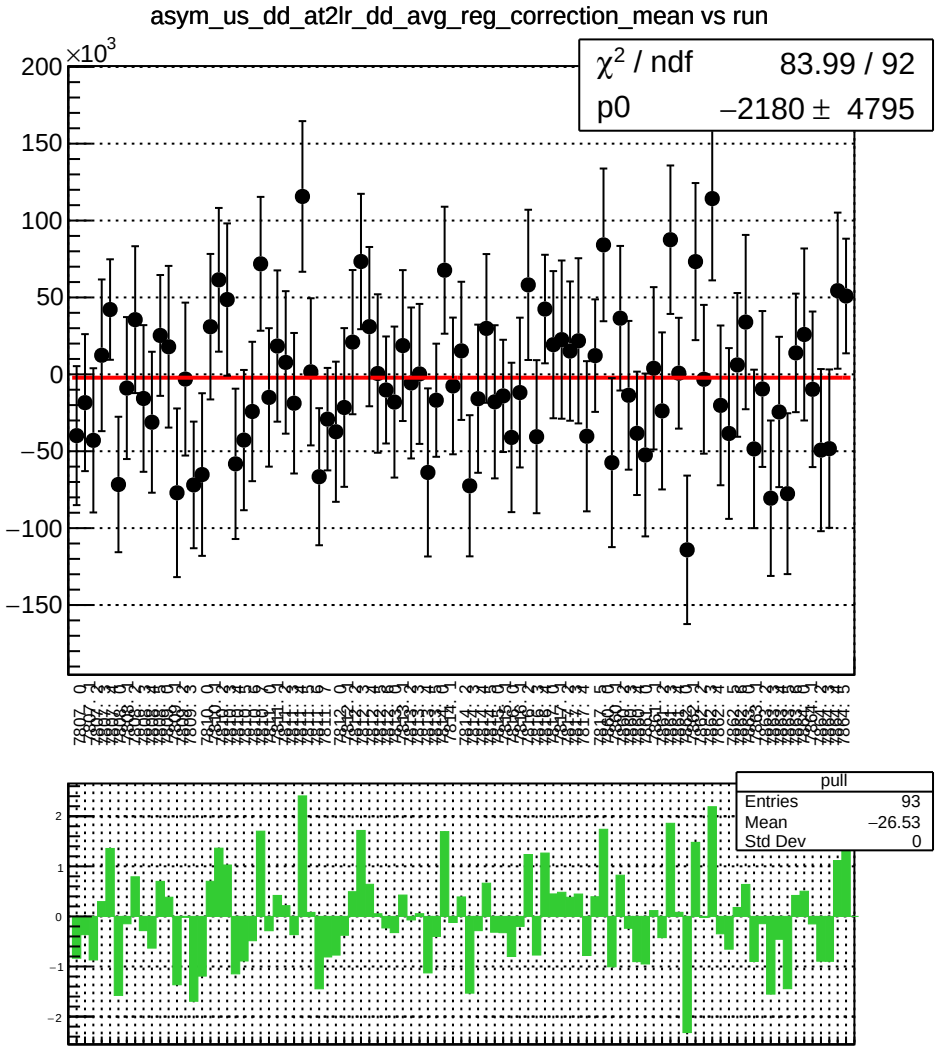

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.524e+05 / 92
p0 51.08 ± 0.04039
120
100
80
60
40
20

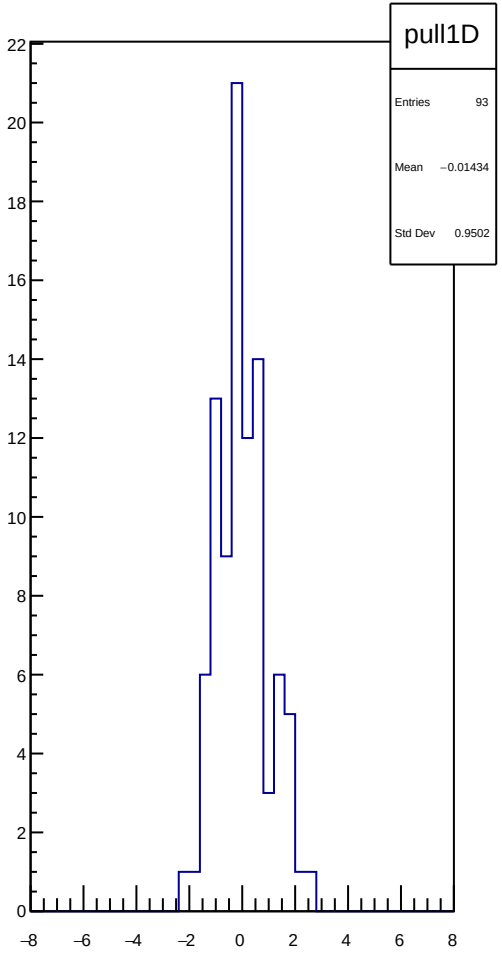

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97.57 / 92
p0 1.654e−13 ± 1.909e−13
20
10
0
−10
−20
−30
pull
Entries 93
Mean 28.45
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.1172
Std Dev 1.018
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

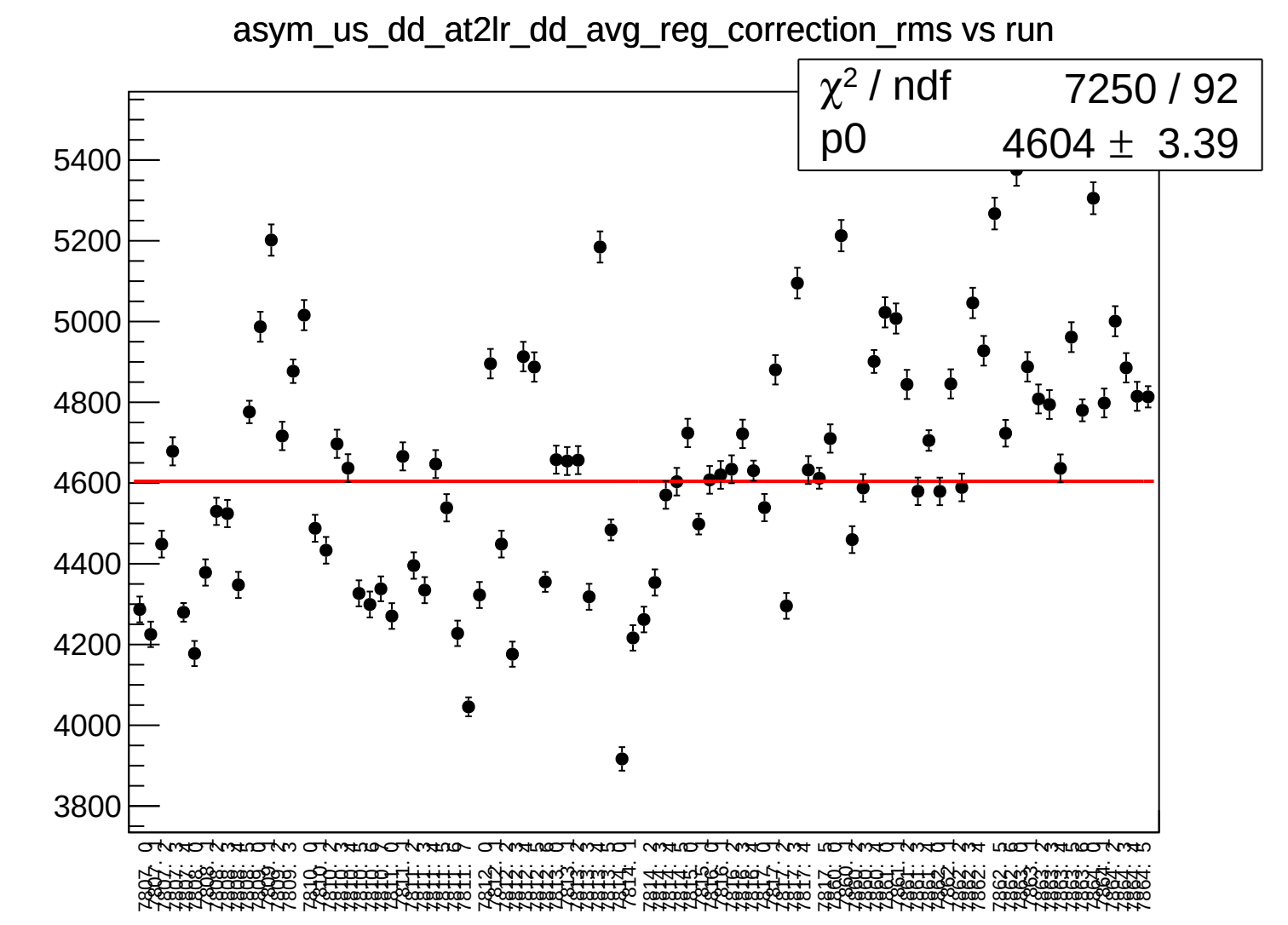

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.129e+05 / 92
p0 1.376e−10 ± 1.35e−13
1
0.8
0.6
0.4
0.2

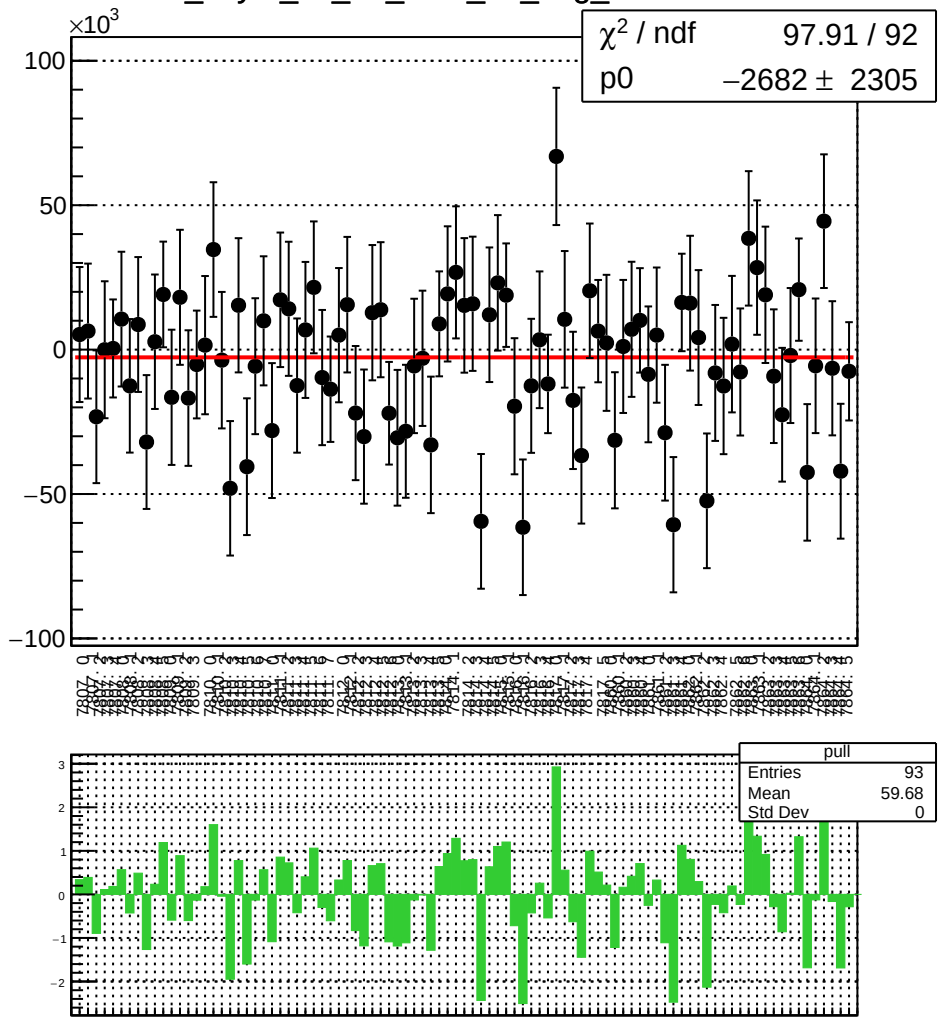

reg_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 97.91 / 92
p0 −2682 ± 2305
100
50
0
−50
−100
pull
Entries 93
Mean 59.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.01506
Std Dev 1.026
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

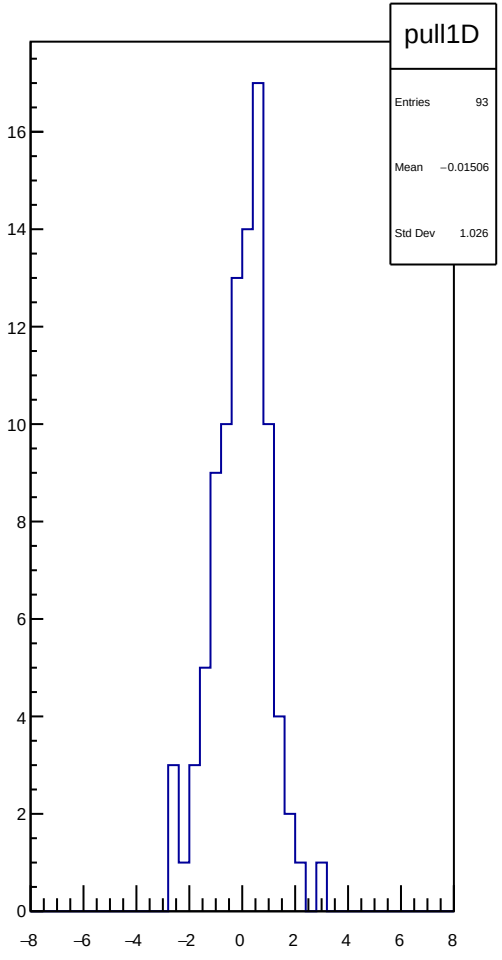

reg_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 117.8 / 92
p0 2217 ± 1.63
2300
2280
2260
2240
2220
2200
2180
2160
2140

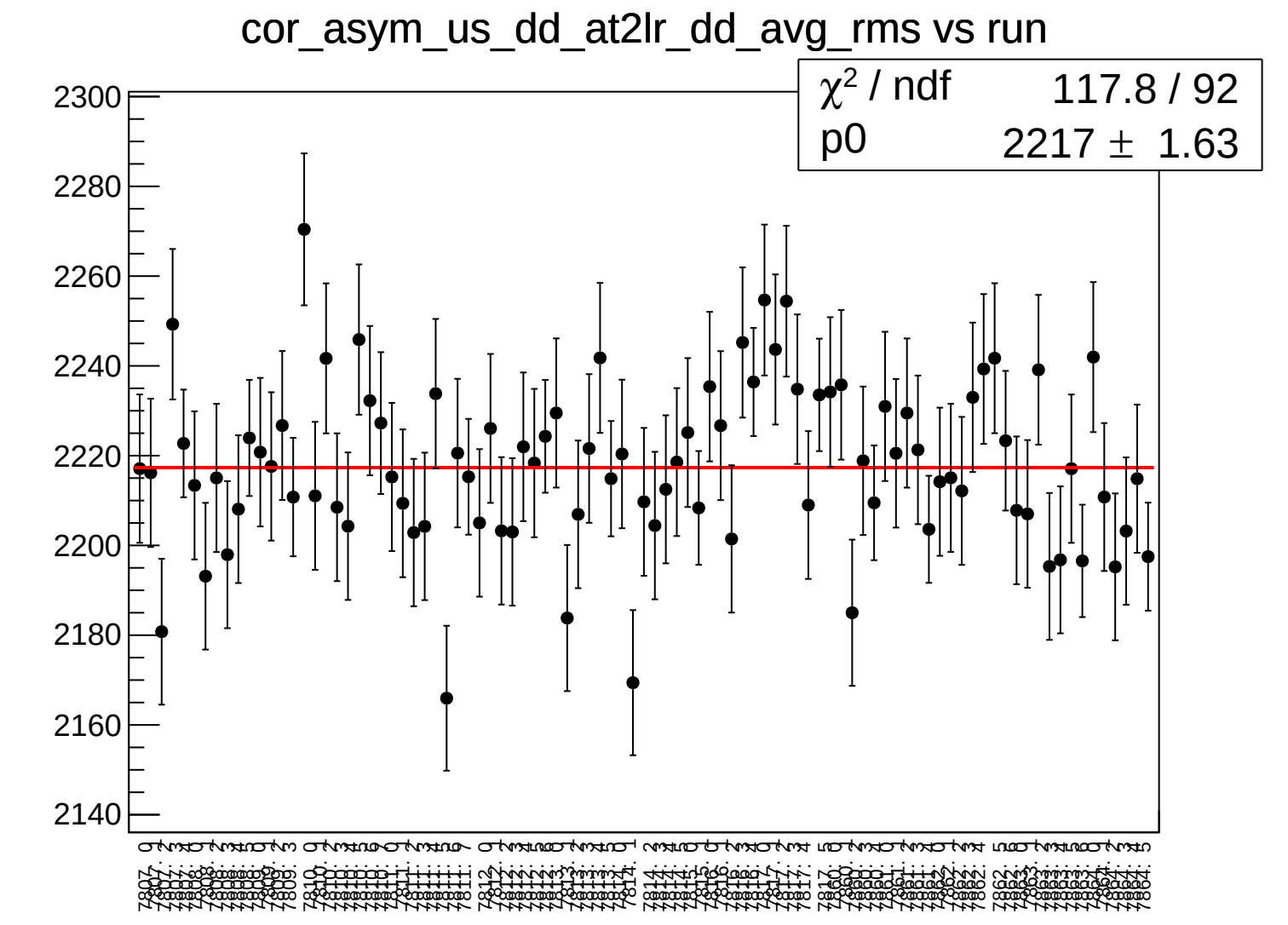

asym_us_dd_at2lr_dd_avg_reg_correction_mean vs run
χ² / ndf 83.99 / 92
p0 −2180 ± 4795
×10³
pull
Entries 93
Mean −26.53
Std Dev 0

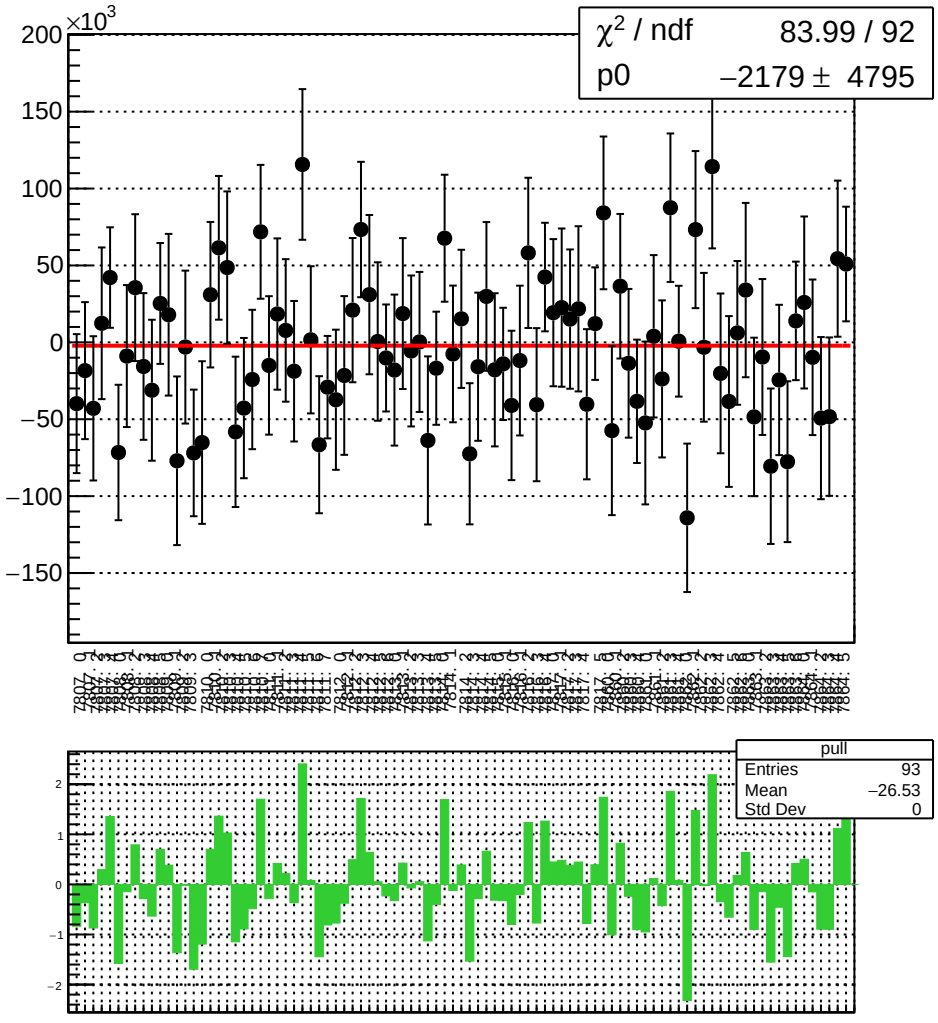

pull1D
Entries 93
Mean −0.01434
Std Dev 0.9502

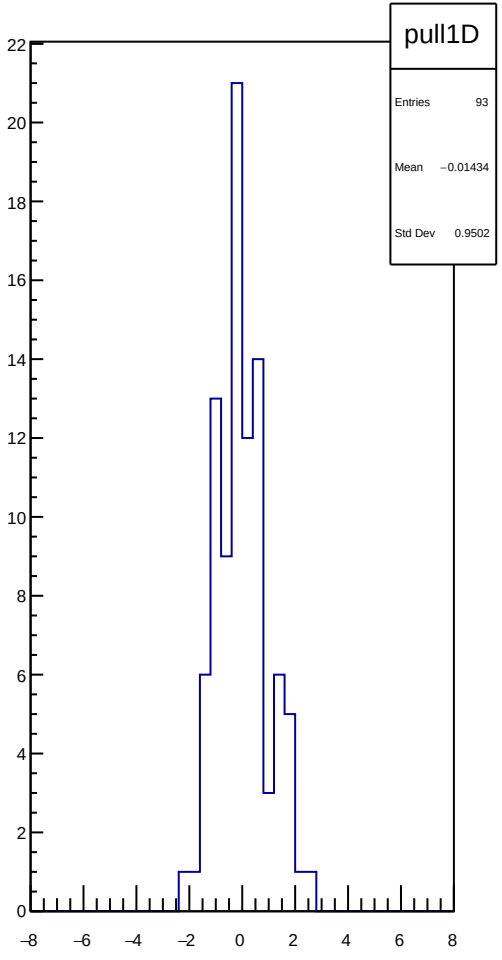

asym_us_dd_at2lr_dd_avg_reg_correction_rms vs run
χ² / ndf 7250 / 92
p0 4604 ± 3.39
5400
5200
5000
4800
4600
4400
4200
4000
3800

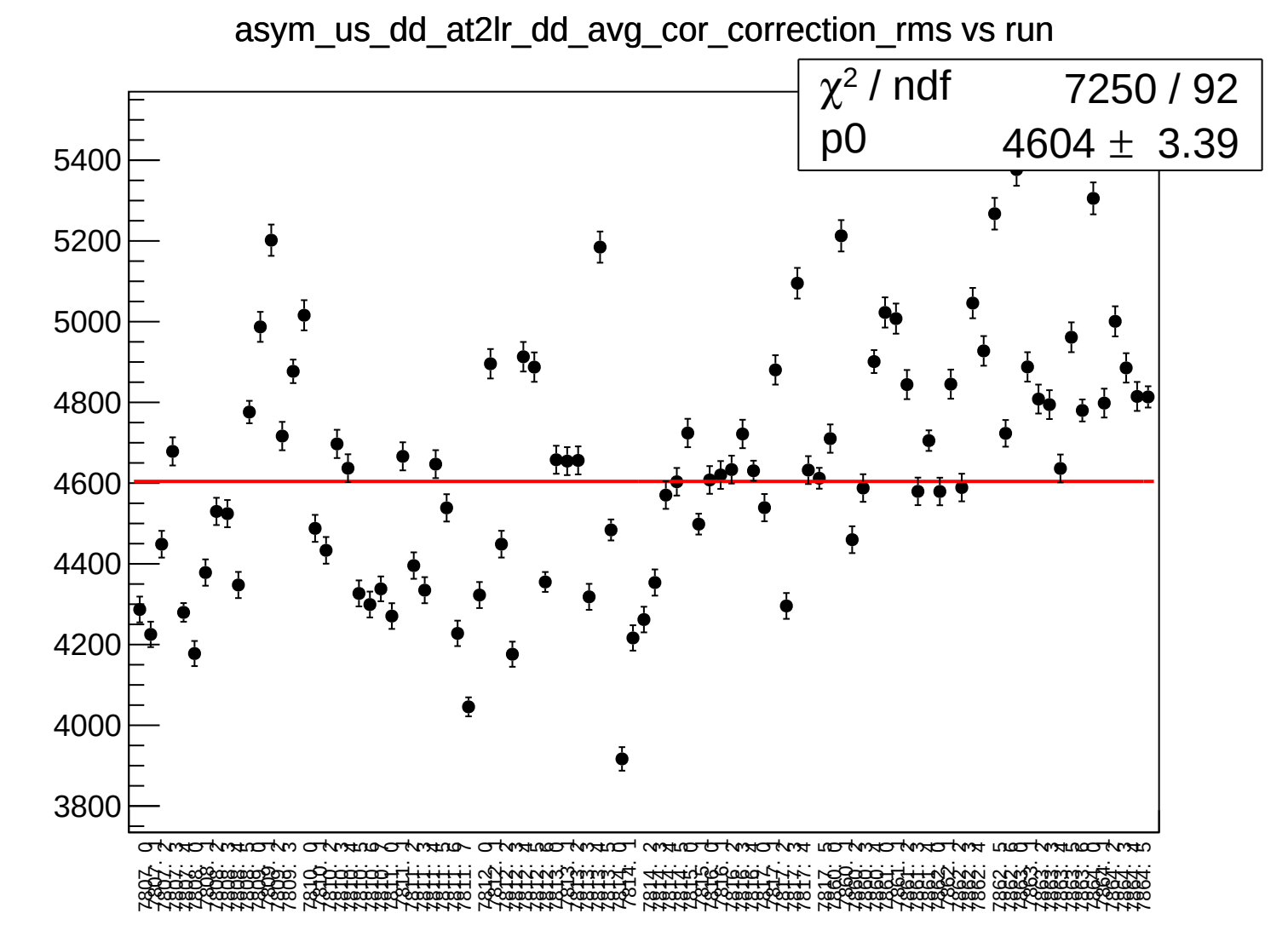

cor_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 97.91 / 92
p0 −2682 ± 2305
100
50
0
−50
−100
pull
Entries 93
Mean 59.68
Std Dev 0
3
2
1
0
−1
−2

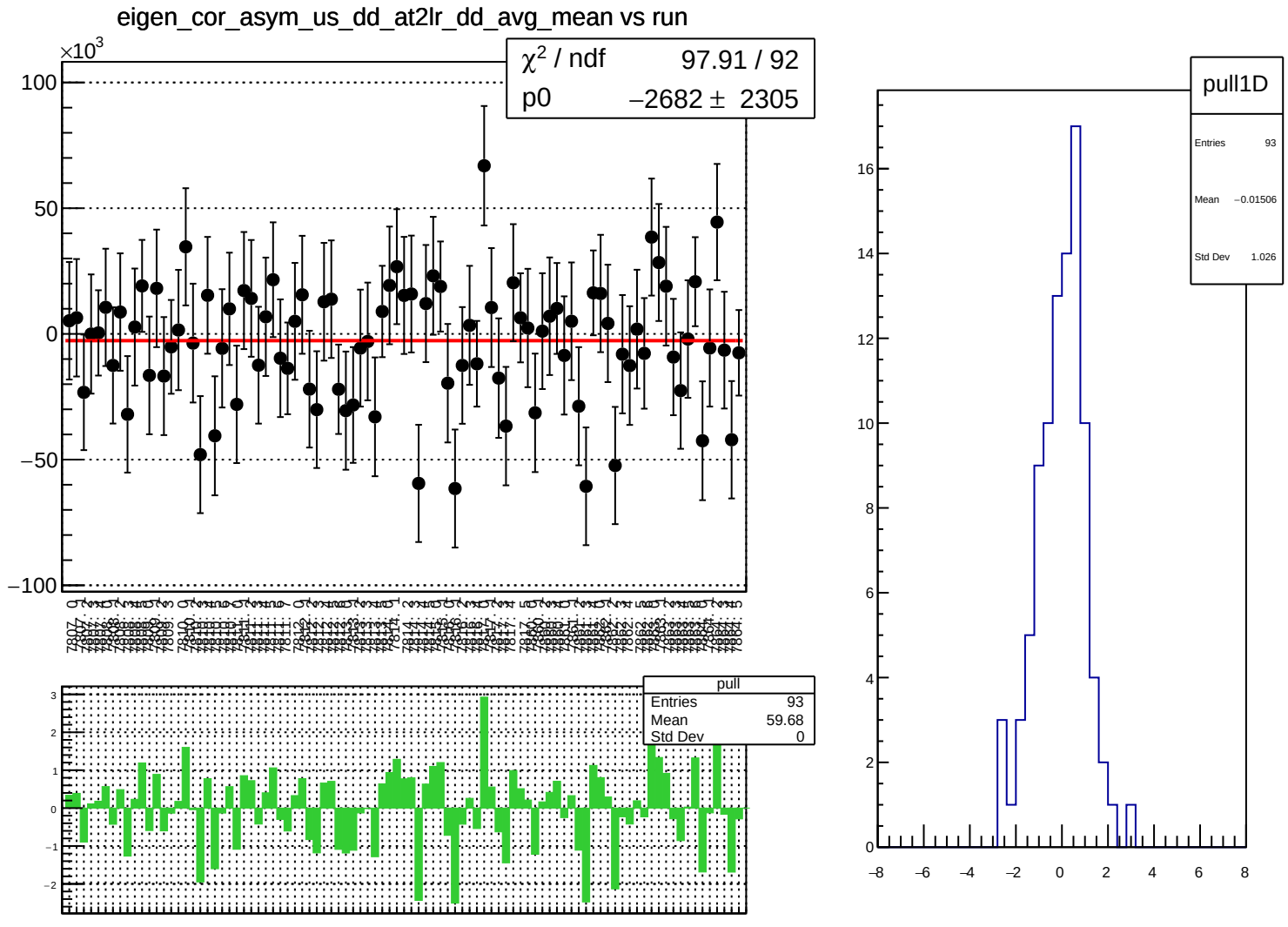

pull1D
Entries 93
Mean −0.01506
Std Dev 1.026
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 117.8 / 92
p0 2217 ± 1.63
2300
2280
2260
2240
2220
2200
2180
2160
2140


asym_us_dd_at2lr_dd_avg_cor_correction_mean vs run
χ² / ndf 83.99 / 92
p0 −2179 ± 4795
×10³
pull
Entries 93
Mean −26.53
Std Dev 0


pull1D
Entries 93
Mean −0.01434
Std Dev 0.9502


asym_us_dd_at2lr_dd_avg_cor_correction_rms vs run
χ² / ndf 7250 / 92
p0 4604 ± 3.39
5400
5200
5000
4800
4600
4400
4200
4000
3800


eigen_cor_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 97.91 / 92
p0 −2682 ± 2305
100
50
0
−50
−100
pull
Entries 93
Mean 59.68
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.01506
Std Dev 1.026
16
14
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10
8
6
4
2
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−8
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−4
−2
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2
4
6
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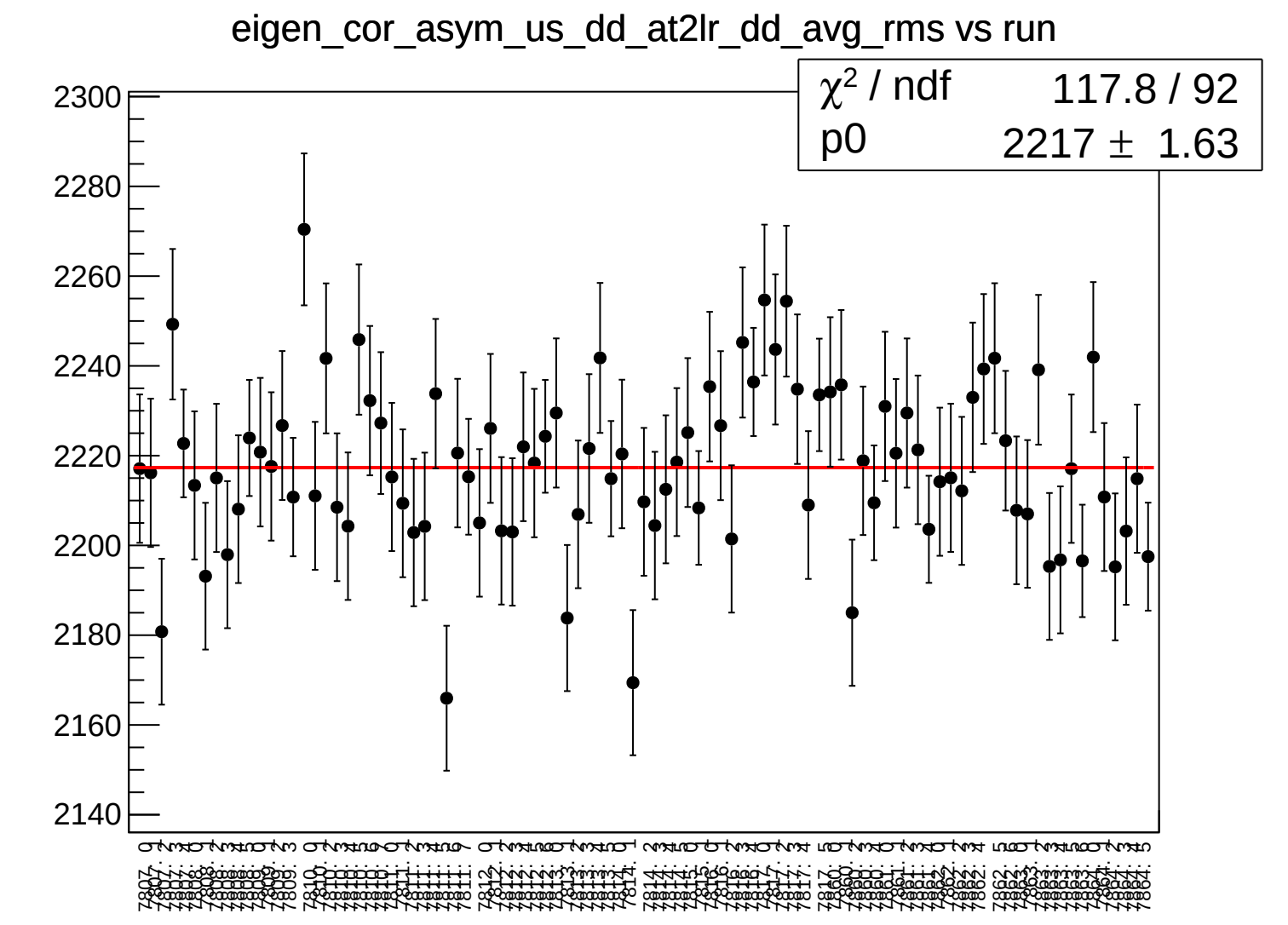
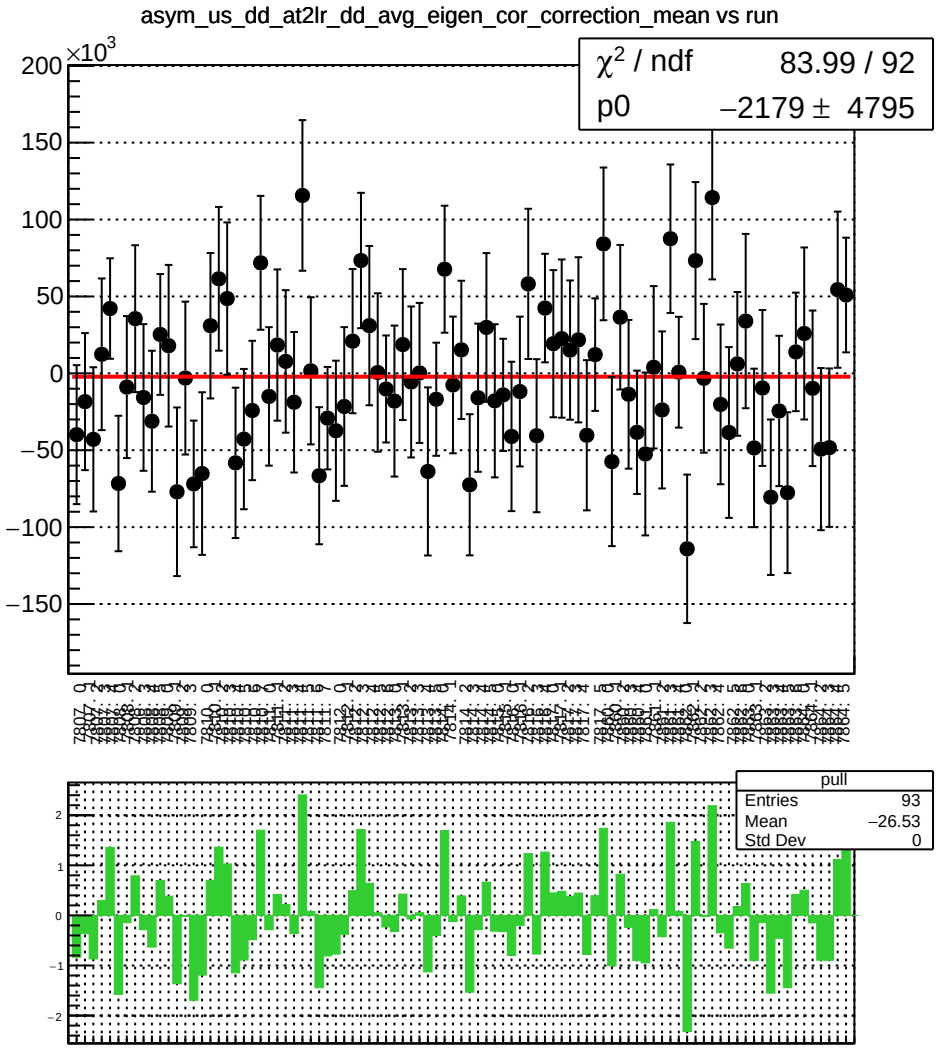
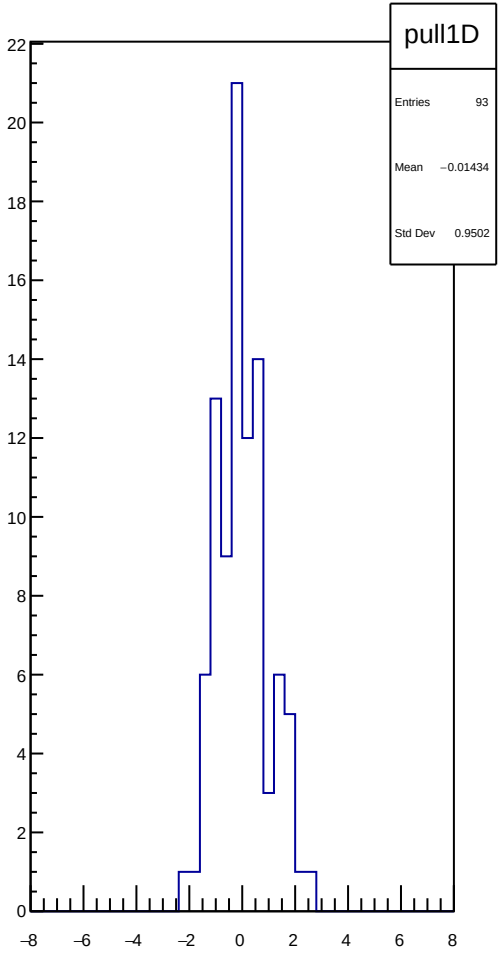
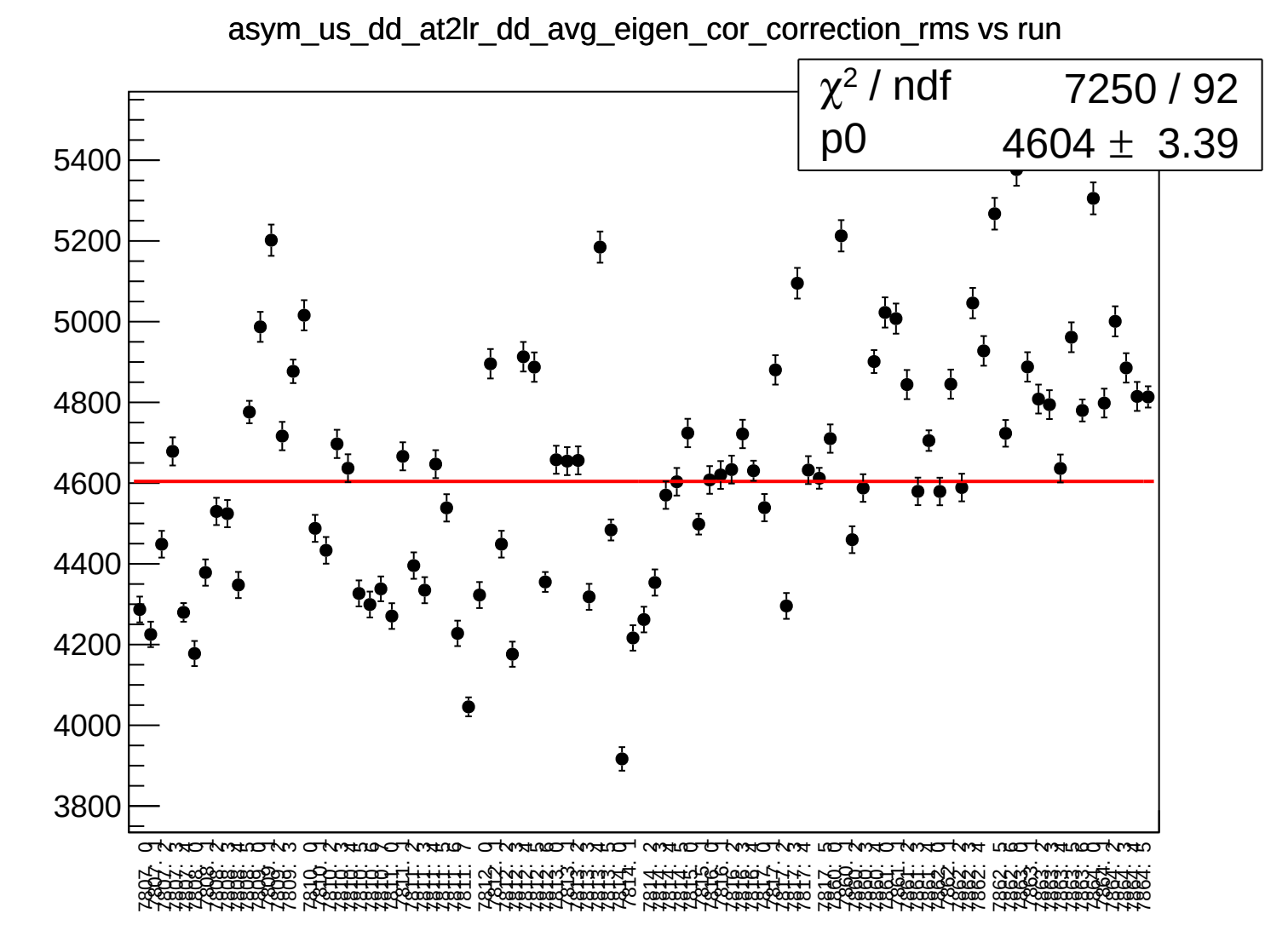
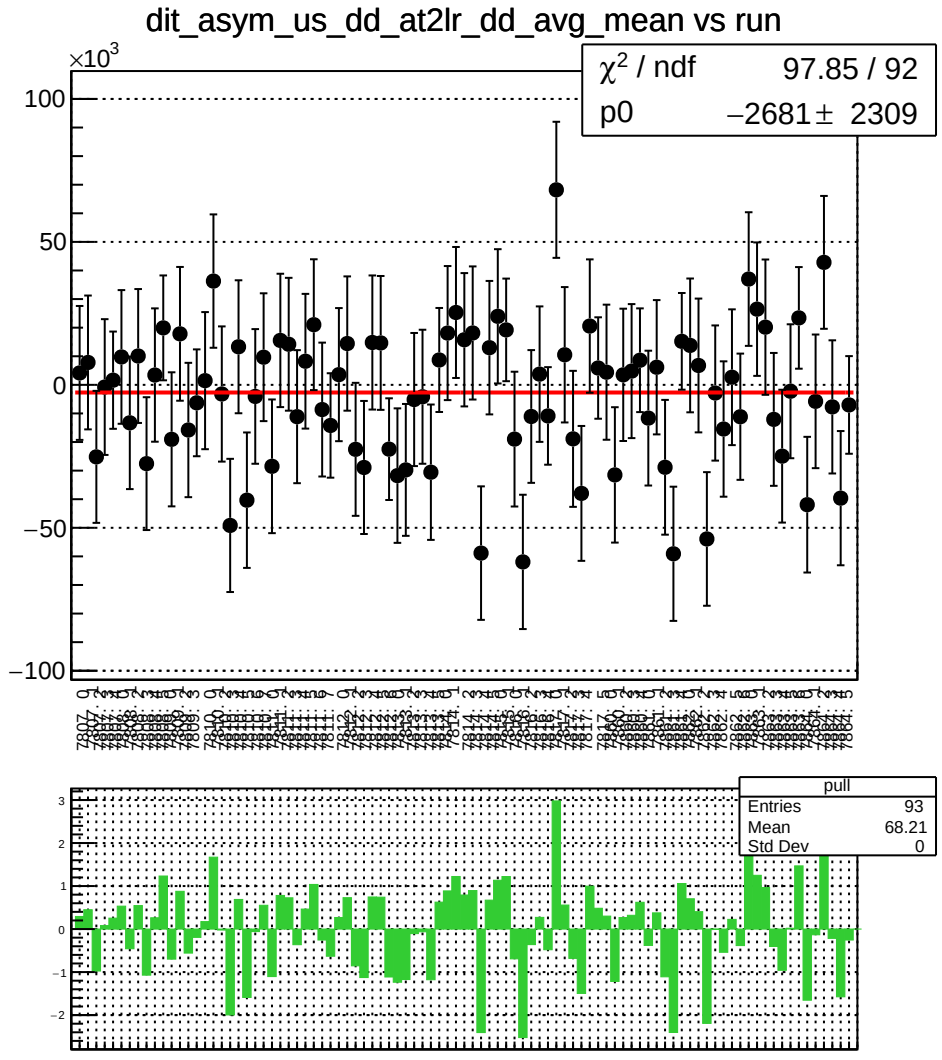
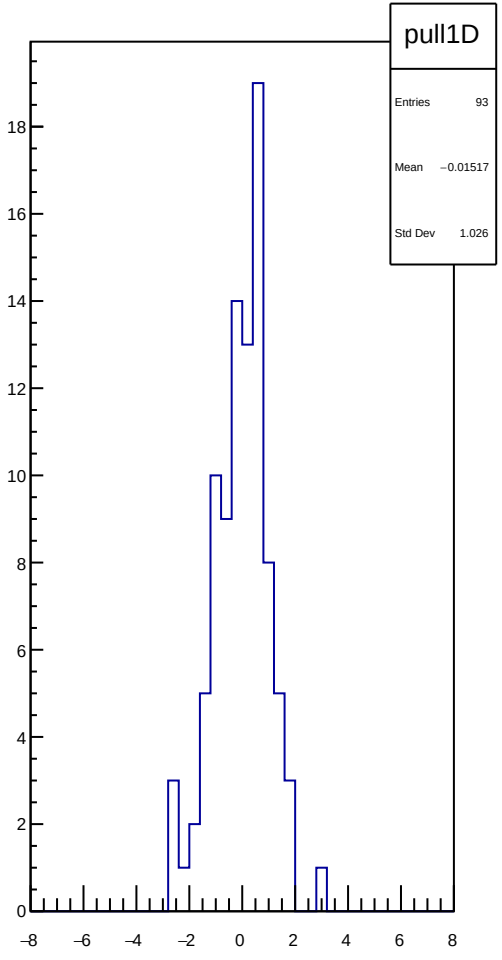

eigen_cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 117.8 / 92
p0 2217 ± 1.63
2300
2280
2260
2240
2220
2200
2180
2160
2140

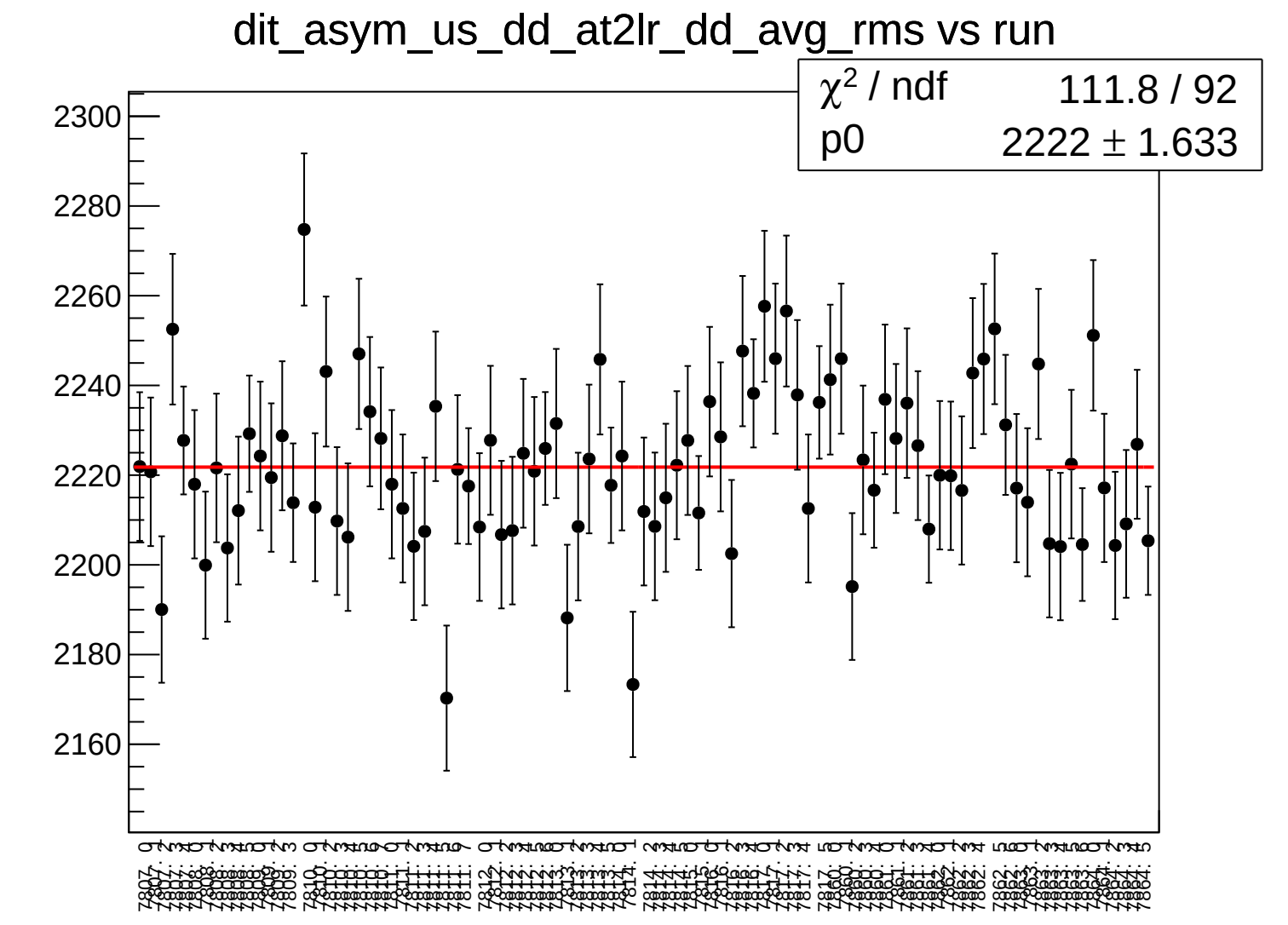

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 83.99 / 92
p0 −2179 ± 4795
pull
Entries 93
Mean −26.53
Std Dev 0

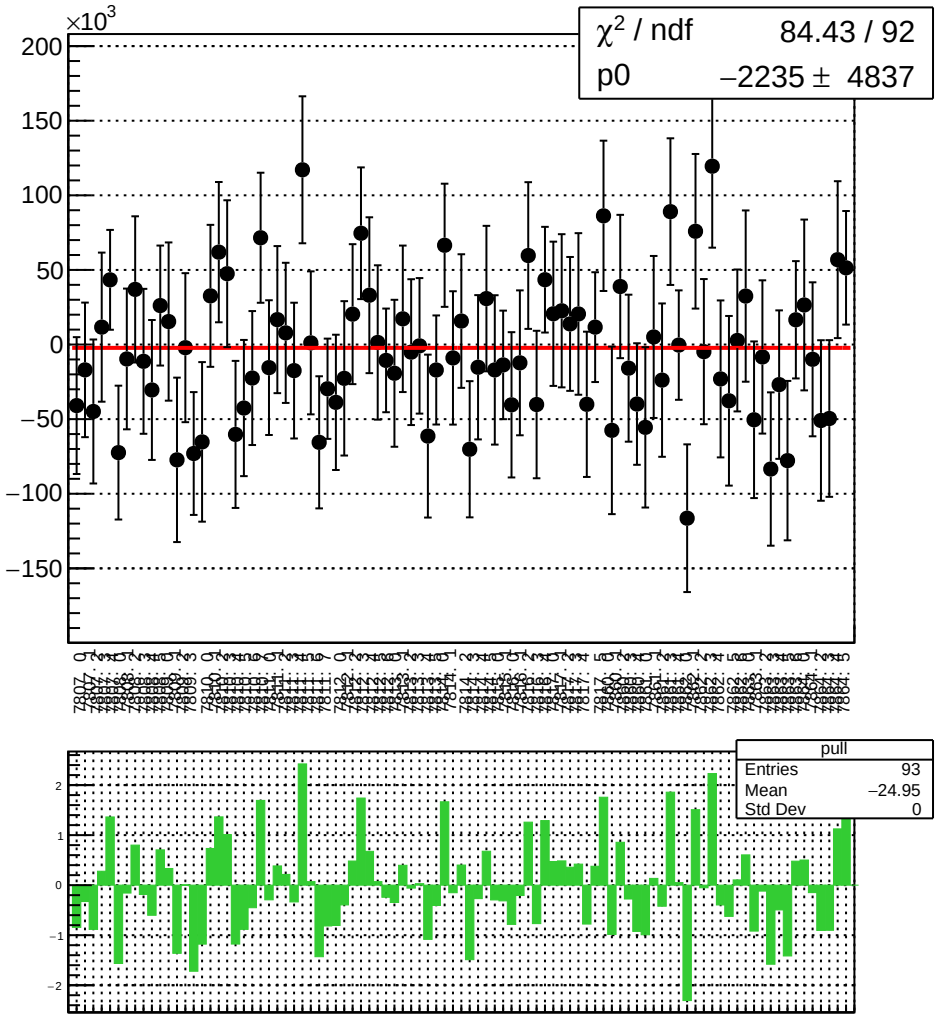

pull1D
Entries 93
Mean −0.01434
Std Dev 0.9502

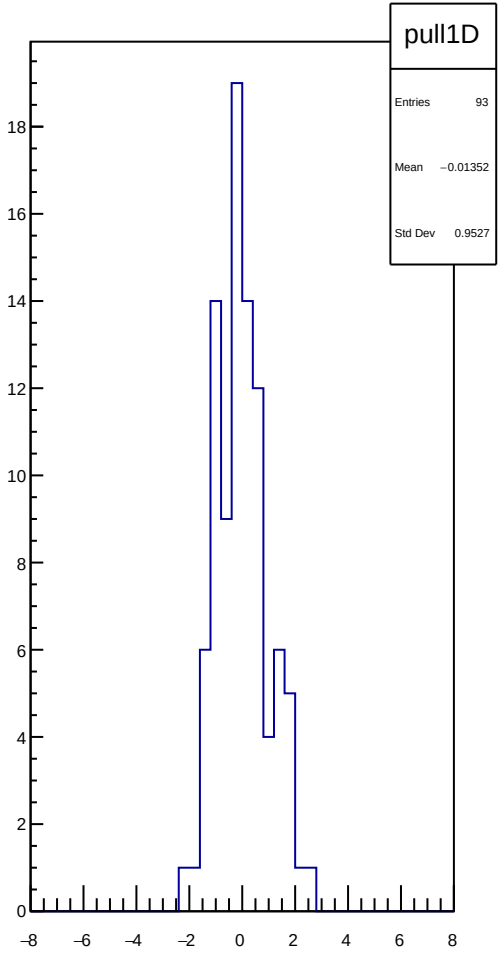

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 7250 / 92
p0 4604 ± 3.39
5400
5200
5000
4800
4600
4400
4200
4000
3800

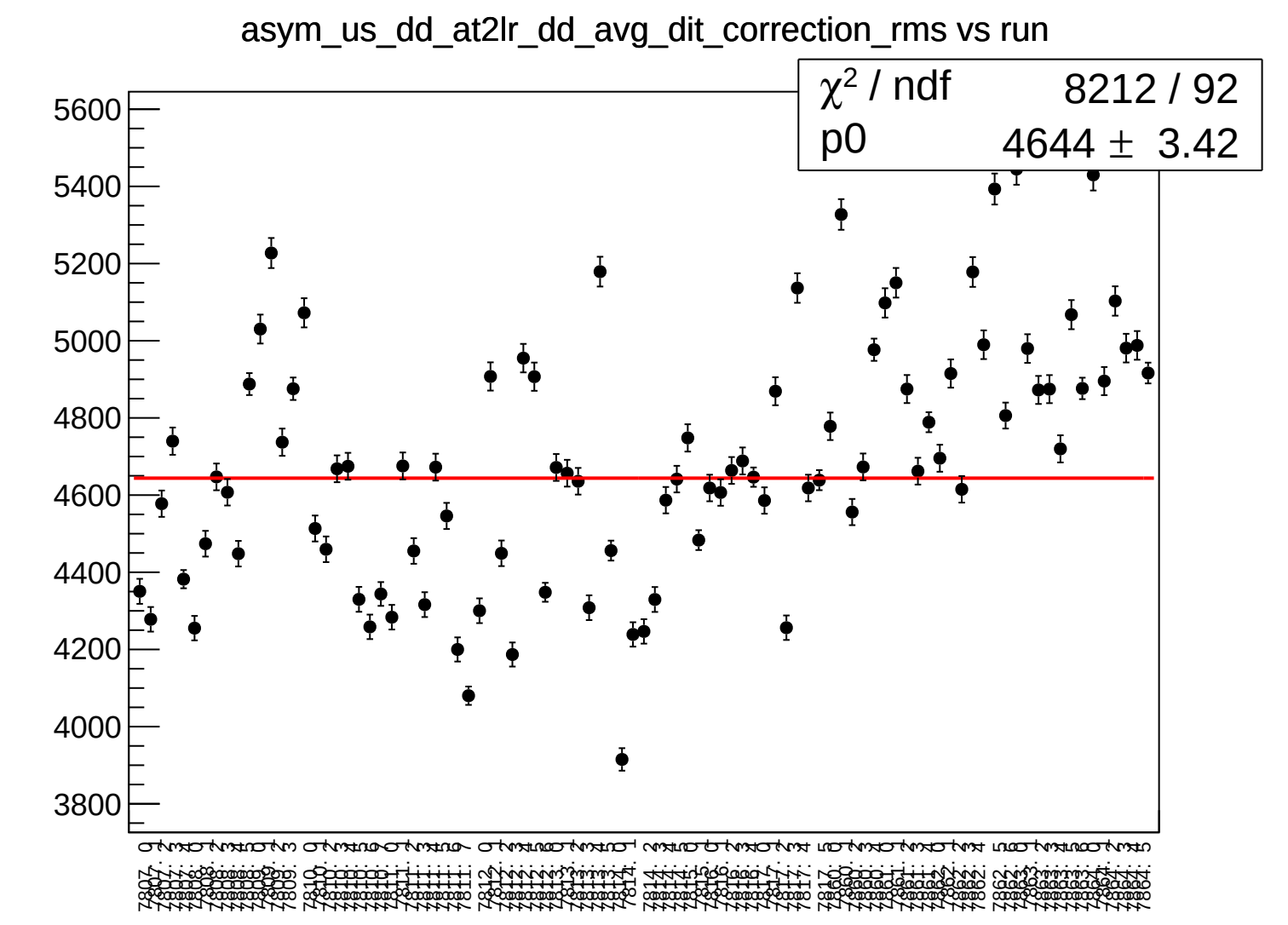

dit_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 97.85 / 92
p0 −2681 ± 2309
100
50
0
−50
−100
pull
Entries 93
Mean 68.21
Std Dev 0
3
2
1
0
−1
−2

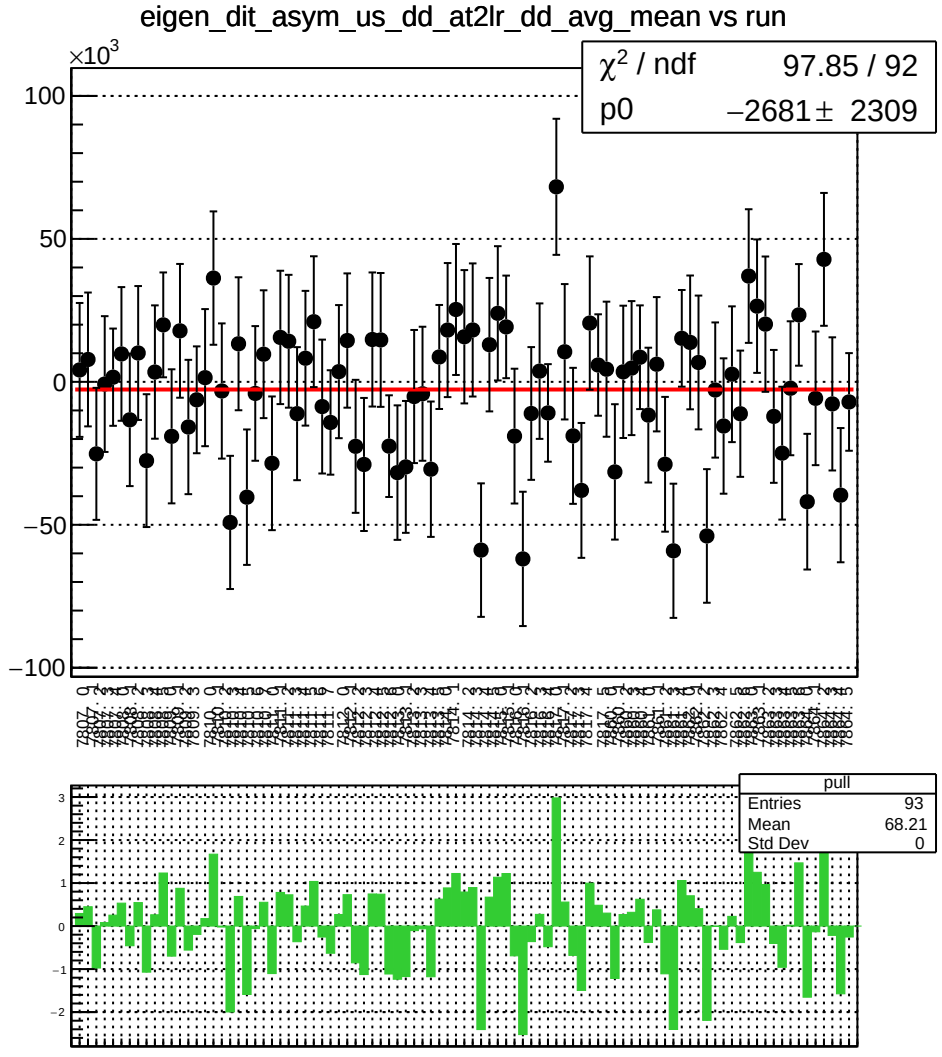

pull1D
Entries 93
Mean −0.01517
Std Dev 1.026
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

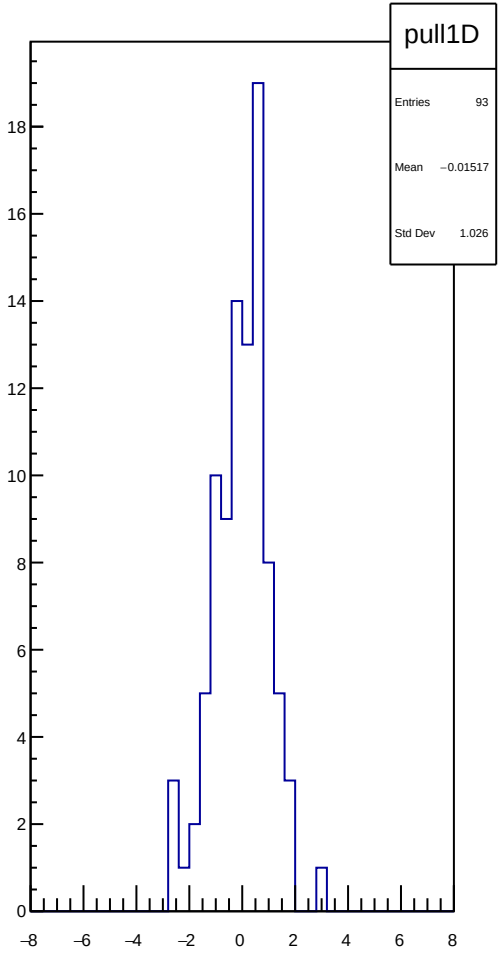

dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 111.8 / 92
p0 2222 ± 1.633
2300
2280
2260
2240
2220
2200
2180
2160

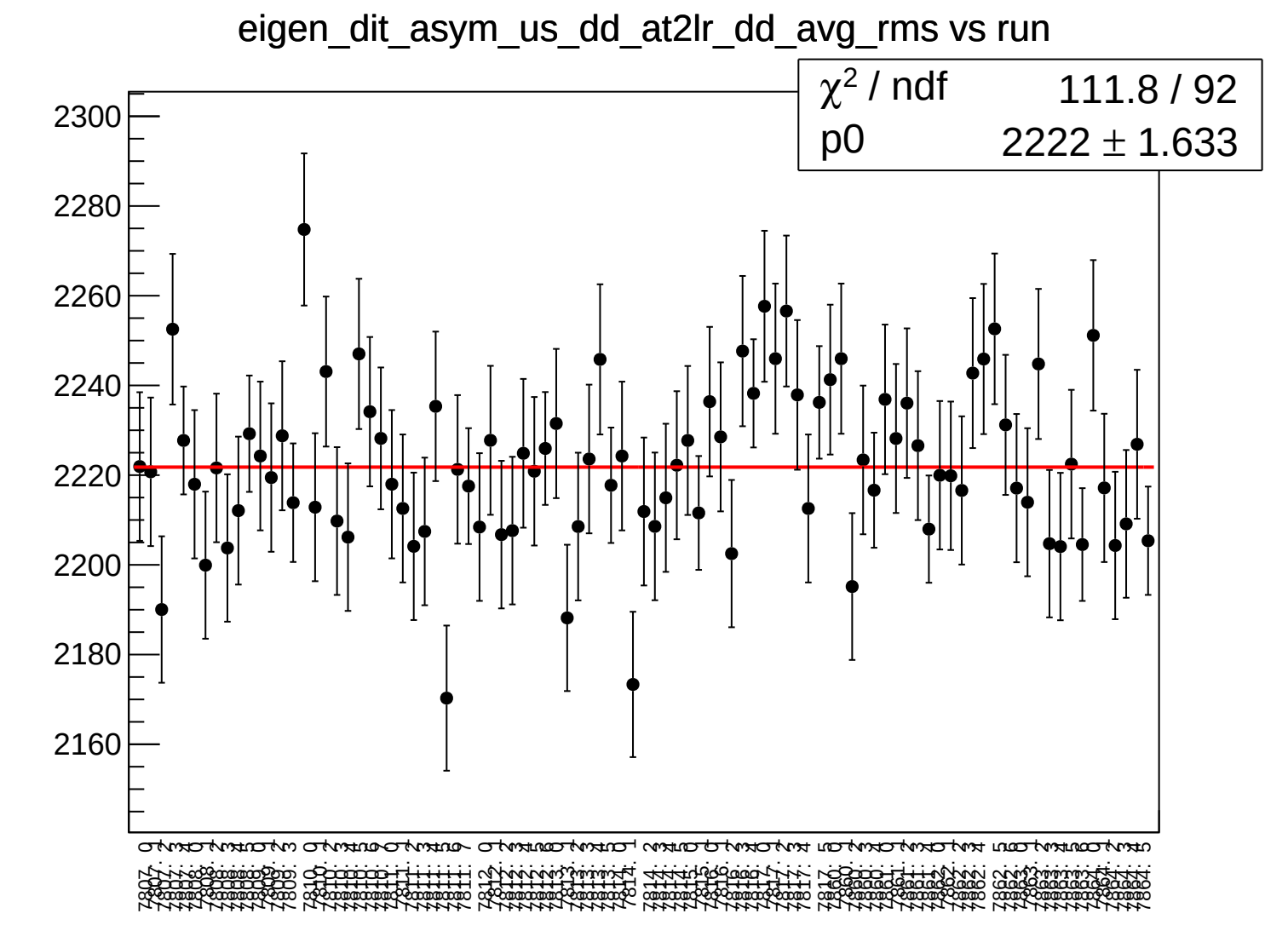

asym_us_dd_at2lr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 84.43 / 92
p0 −2235 ± 4837
pull
Entries 93
Mean −24.95
Std Dev 0

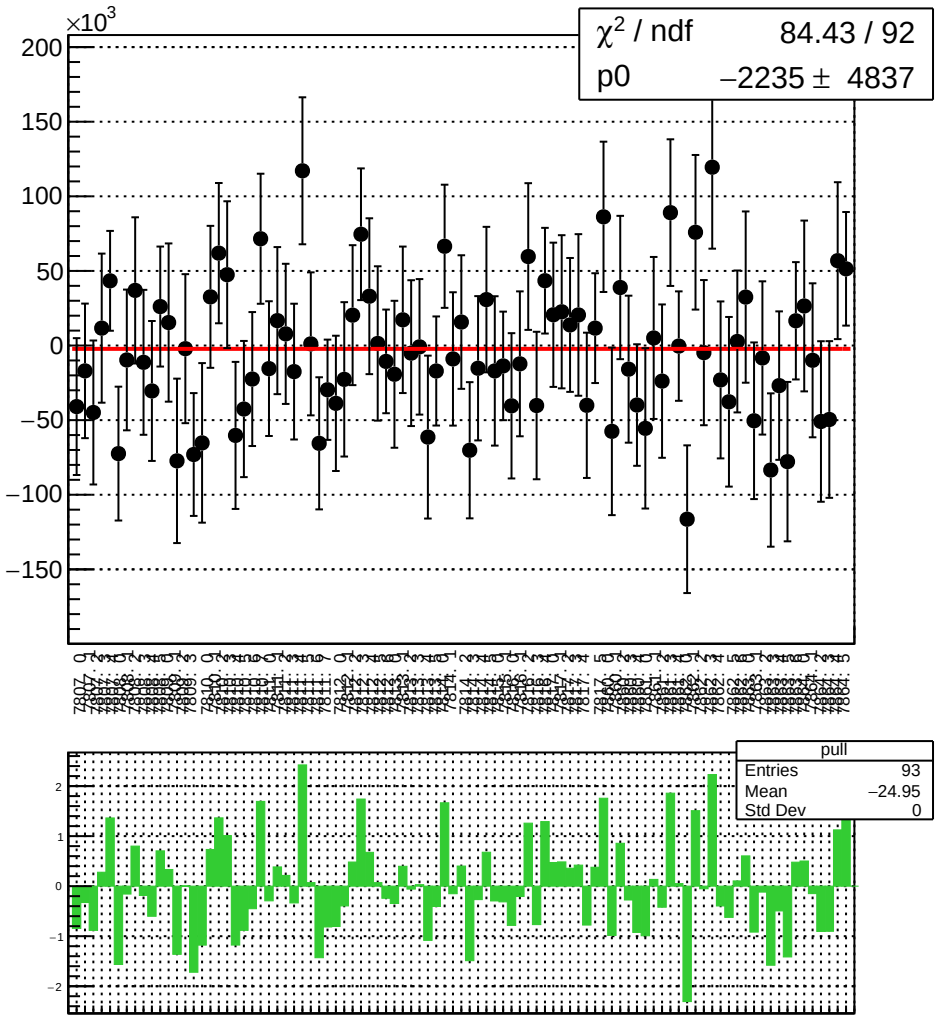

pull1D
Entries 93
Mean −0.01352
Std Dev 0.9527

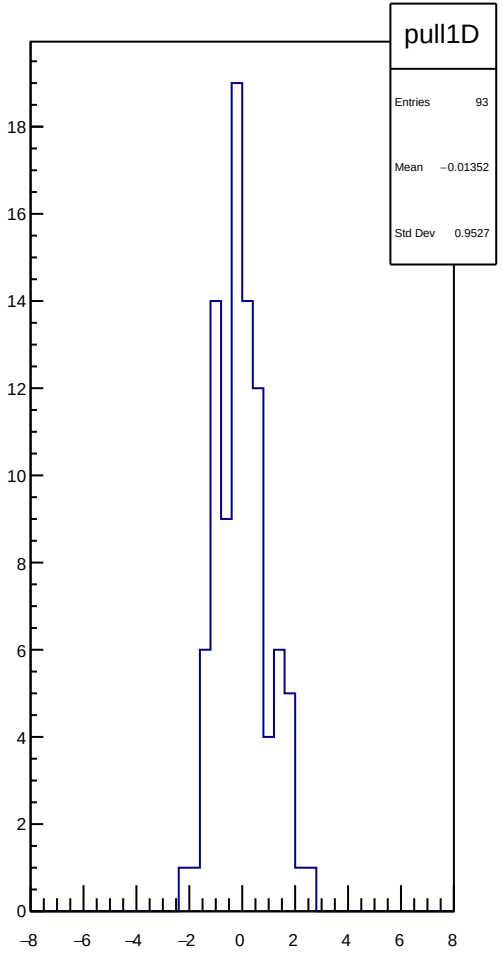

asym_us_dd_at2lr_dd_avg_dit_correction_rms vs run
χ² / ndf 8212 / 92
p0 4644 ± 3.42
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800

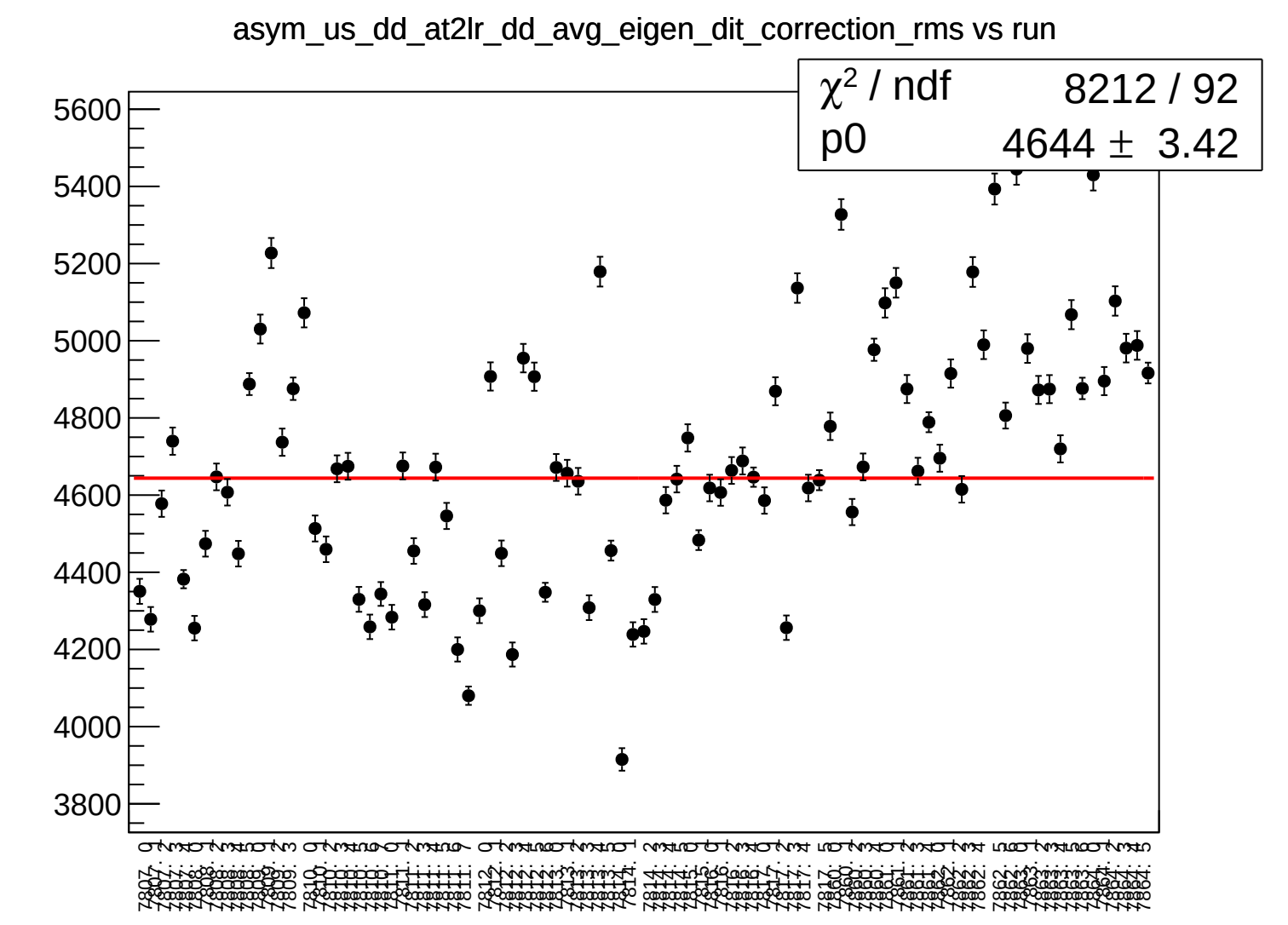

eigen_dit_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 97.85 / 92
p0 −2681 ± 2309
100
50
0
−50
−100
pull
Entries 93
Mean 68.21
Std Dev 0
3
2
1
0
−1
−2

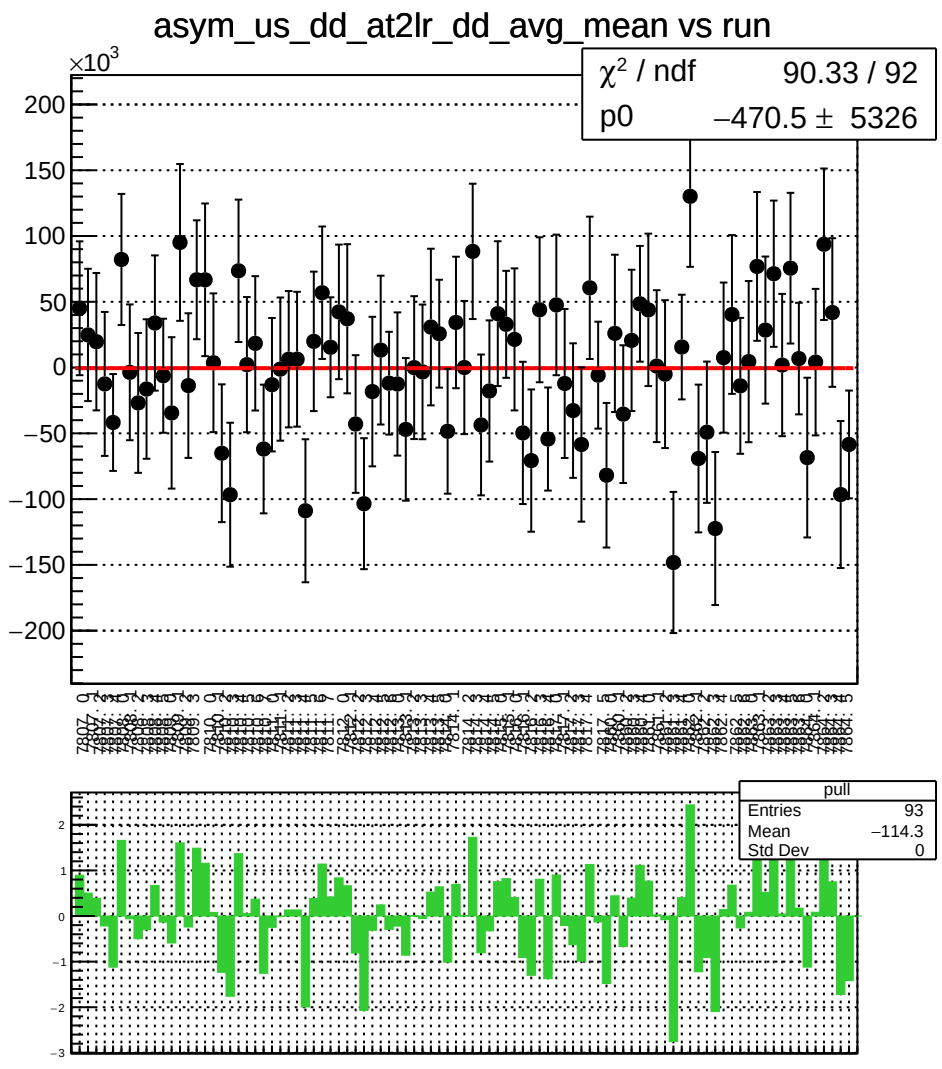

pull1D
Entries 93
Mean −0.01517
Std Dev 1.026
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

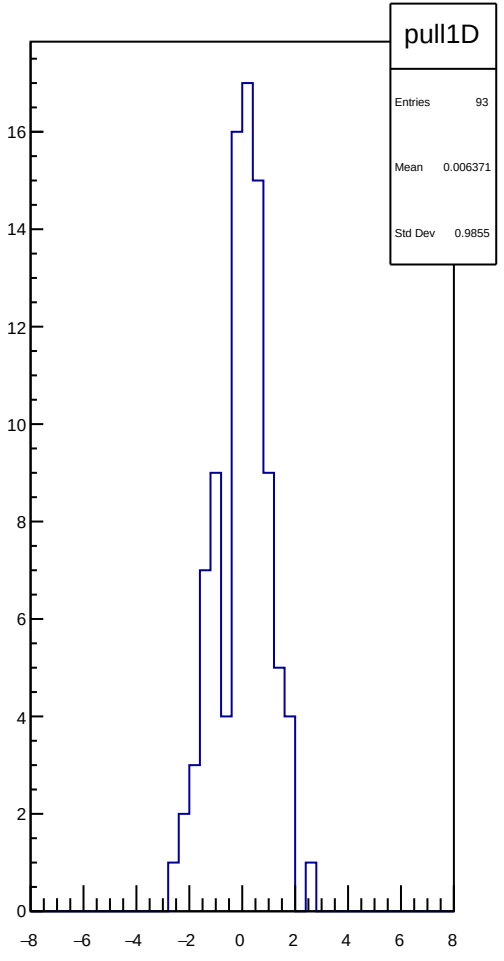

eigen_dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 111.8 / 92
p0 2222 ± 1.633
2300
2280
2260
2240
2220
2200
2180
2160

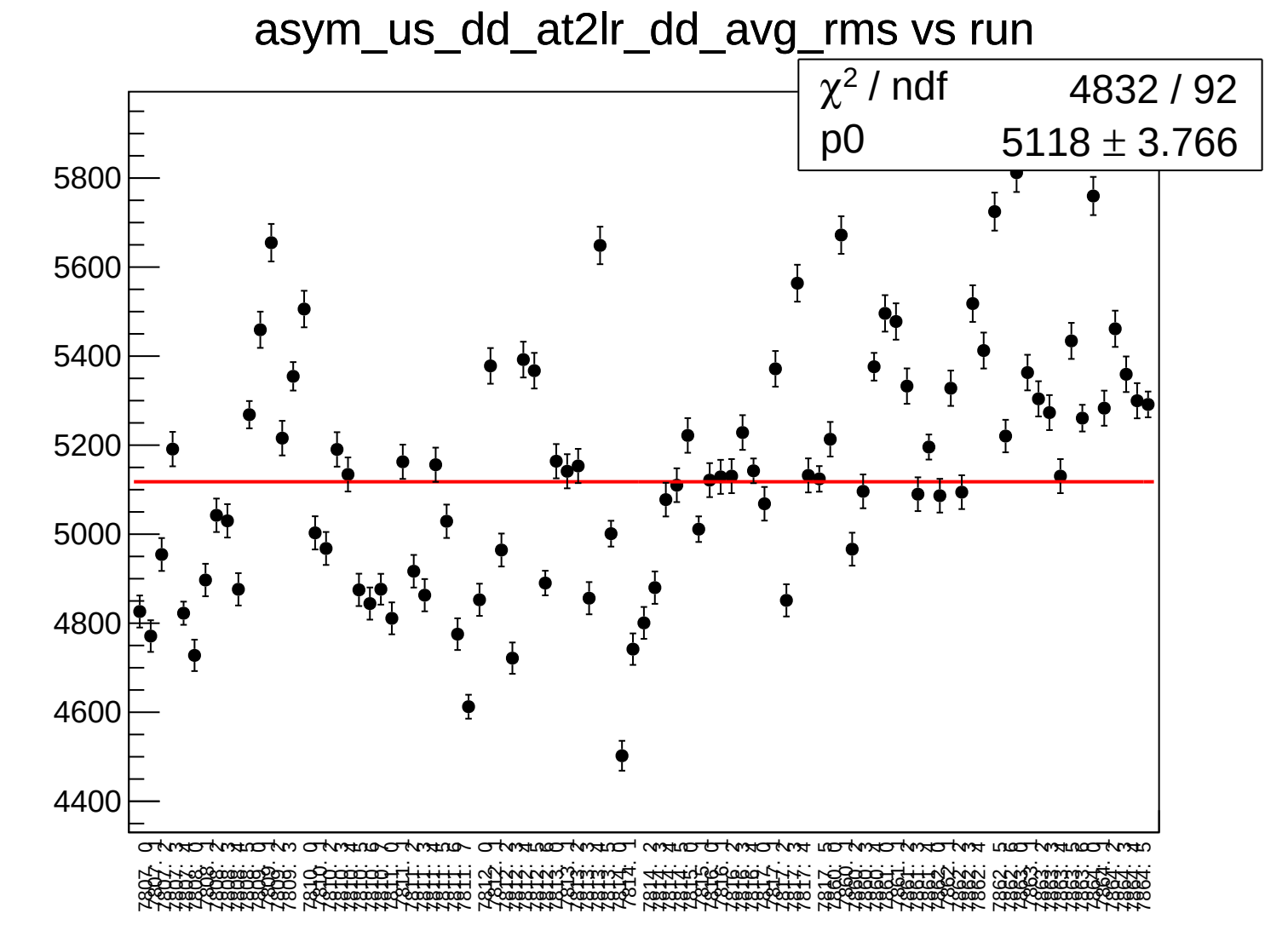

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 84.43 / 92
p0 −2235 ± 4837
pull
Entries 93
Mean −24.95
Std Dev 0

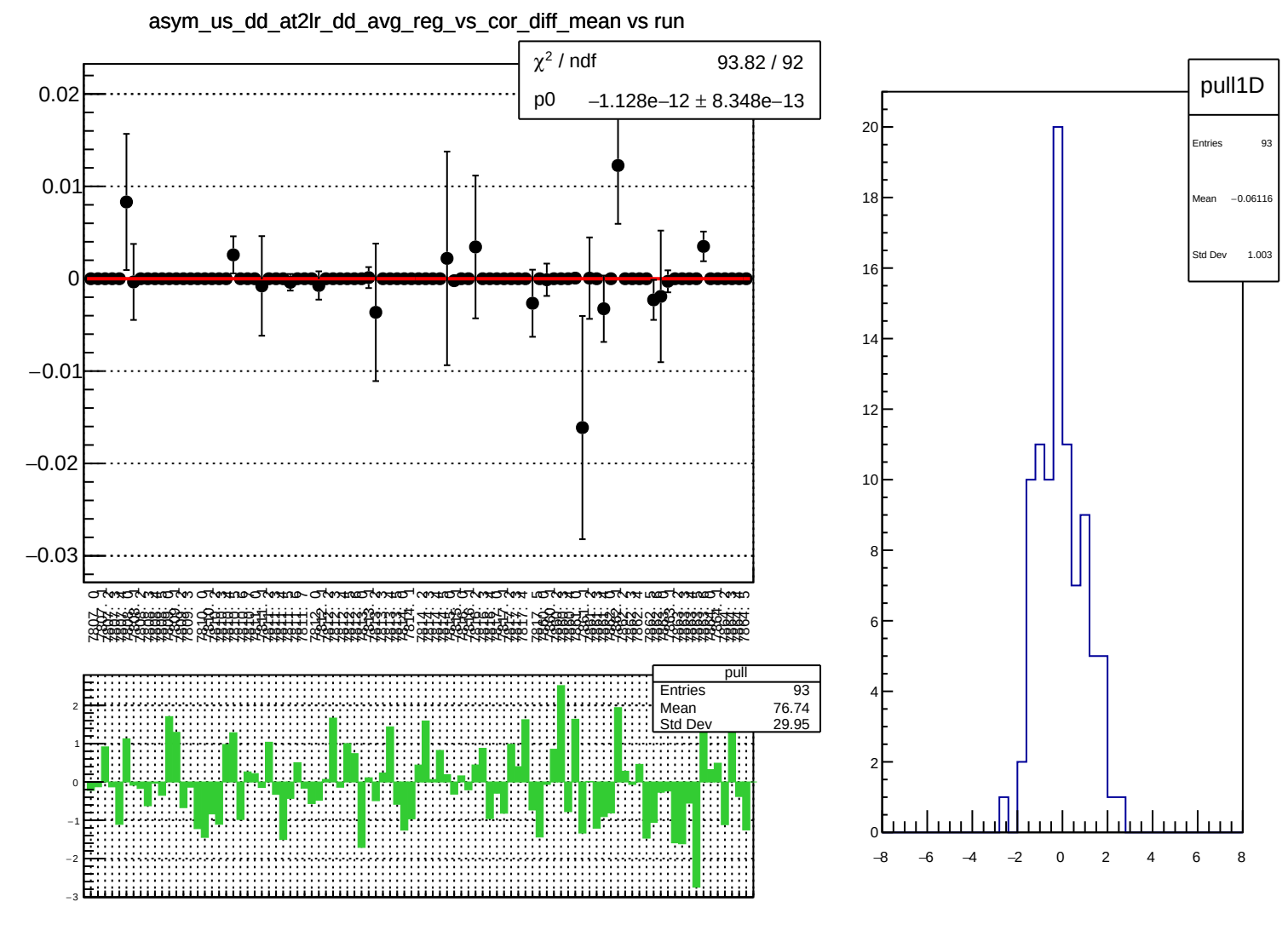

pull1D
Entries 93
Mean −0.01352
Std Dev 0.9527

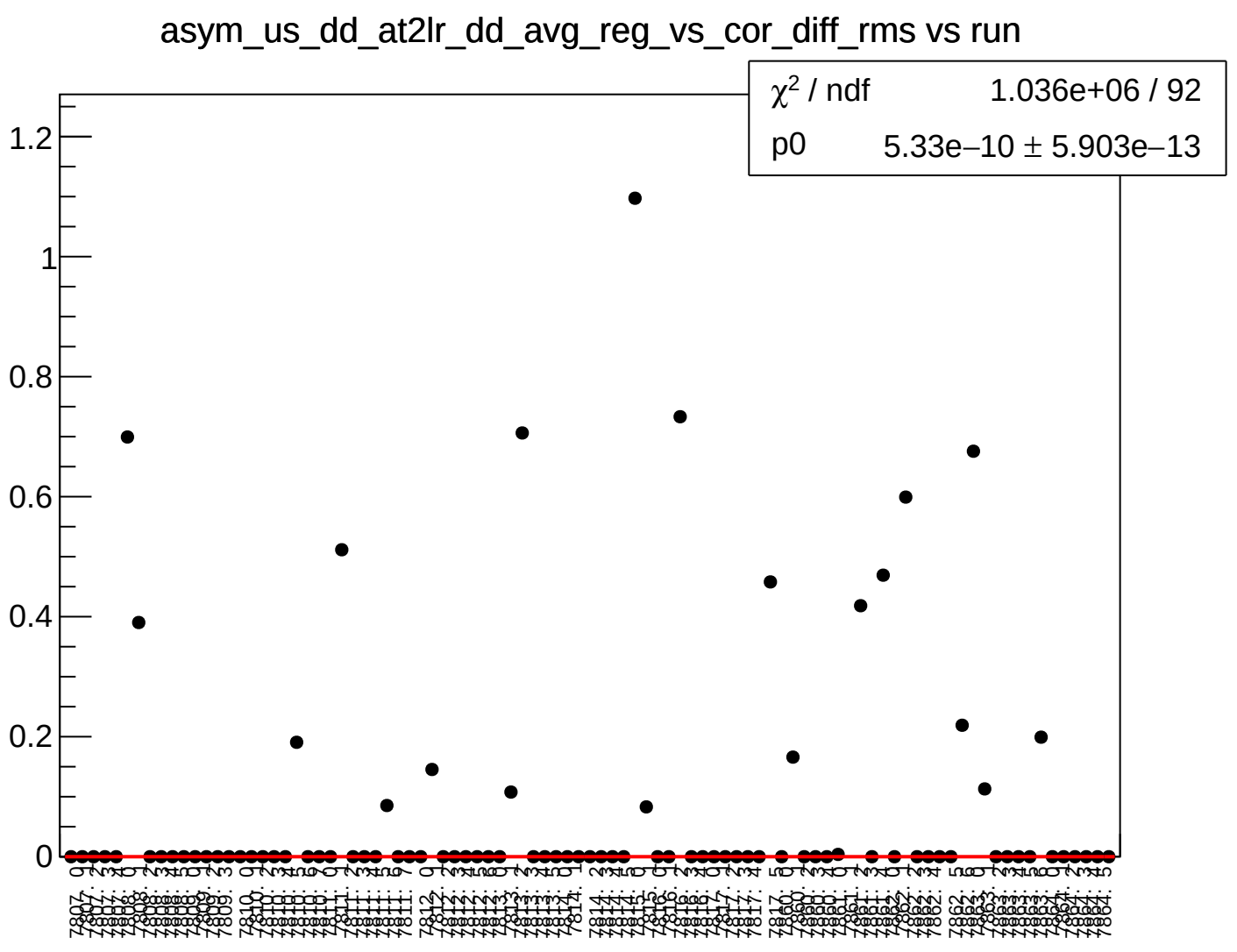

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 8212 / 92
p0 4644 ± 3.42
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800

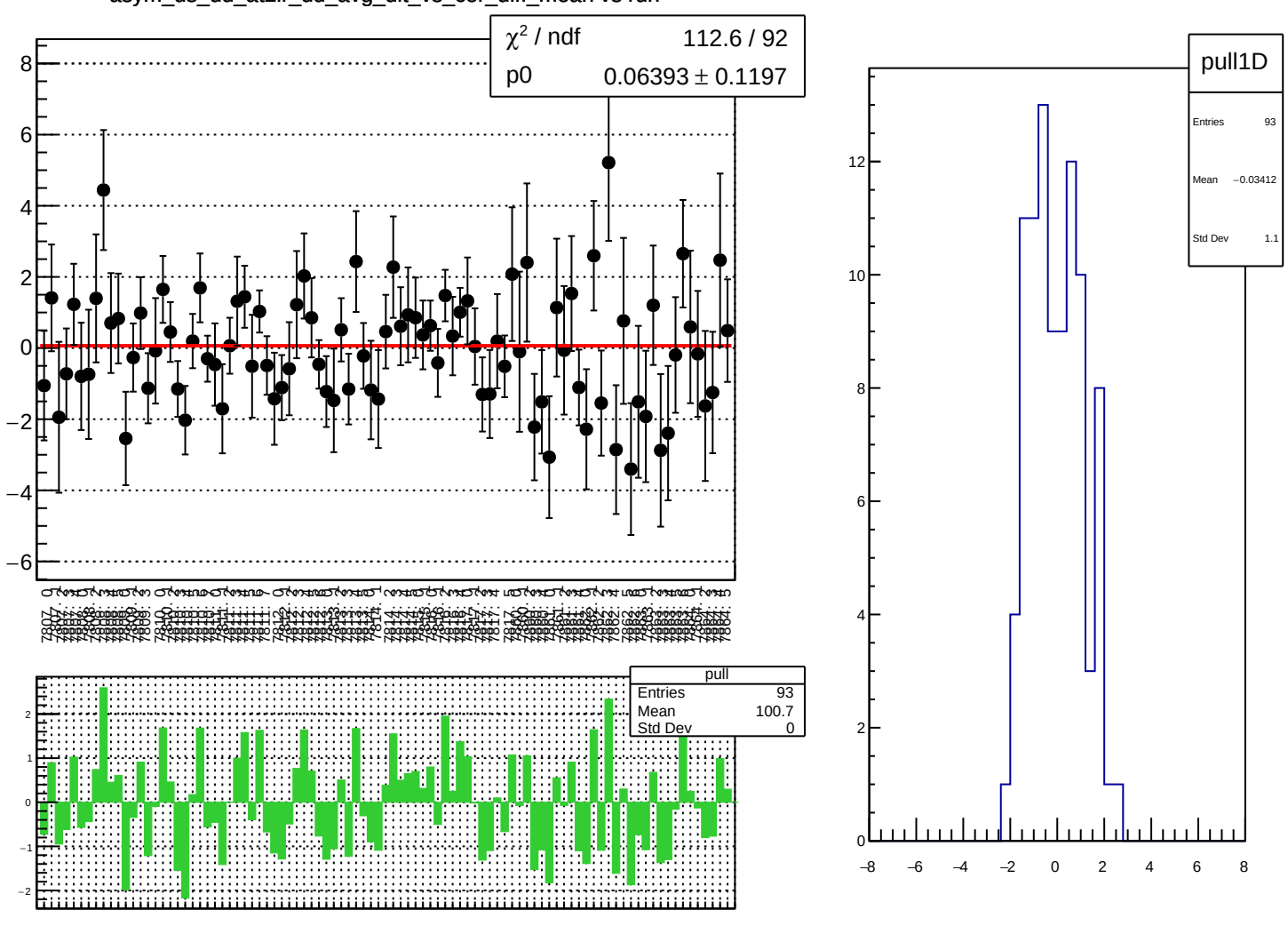

asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 90.33 / 92
p0 −470.5 ± 5326
pull
Entries 93
Mean −114.3
Std Dev 0

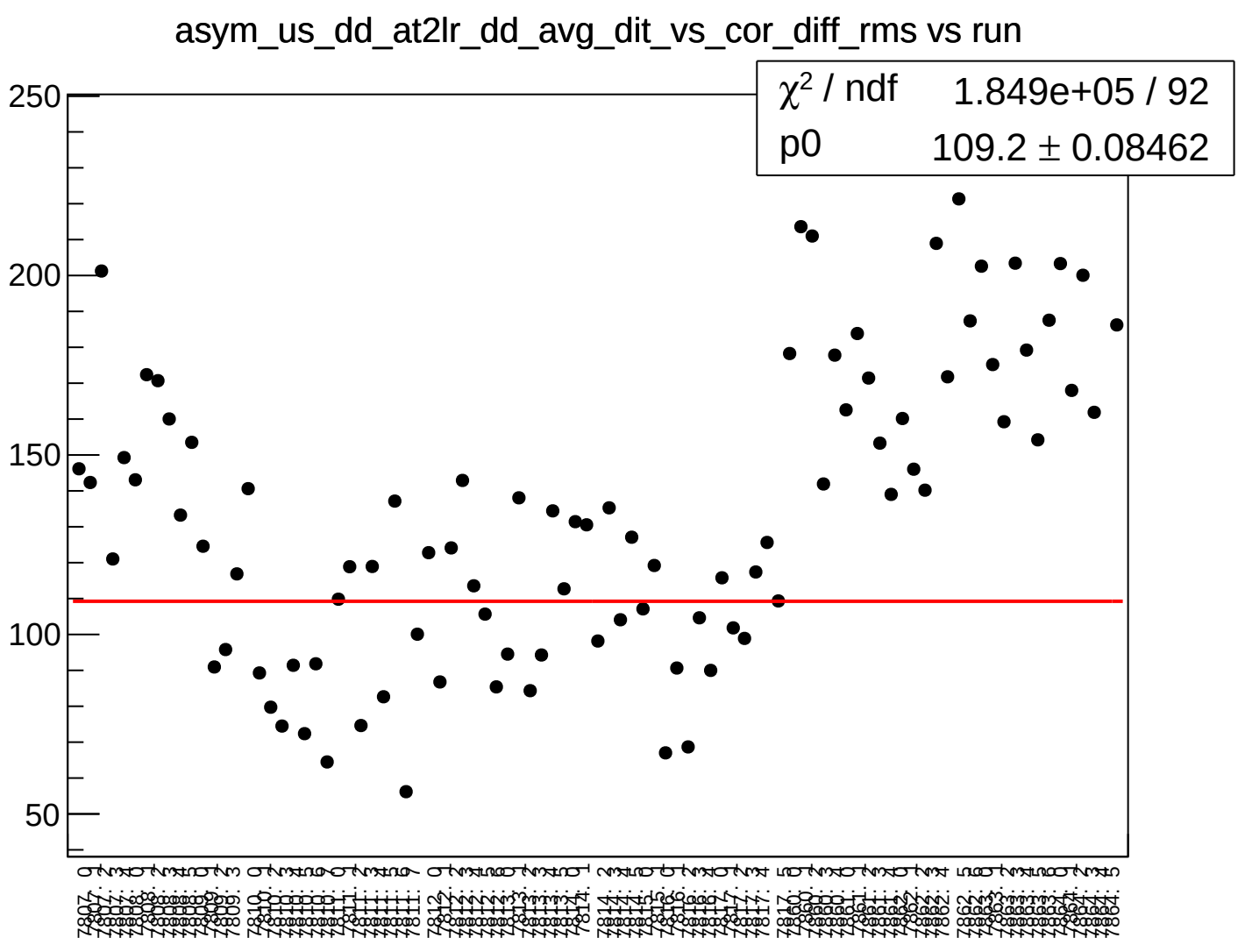

pull1D
Entries 93
Mean 0.006371
Std Dev 0.9855

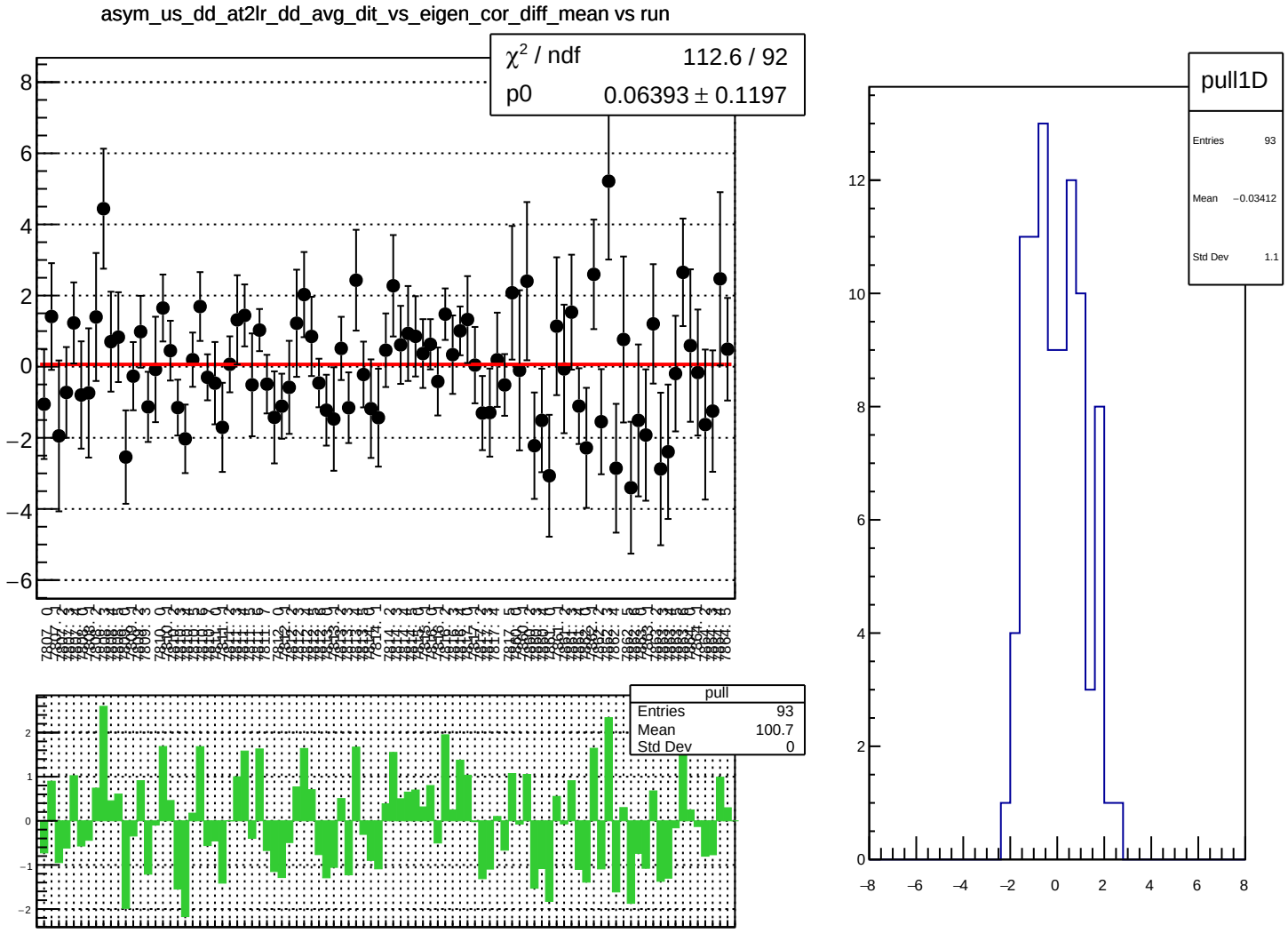

asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 4832 / 92
p0 5118 ± 3.766
5800
5600
5400
5200
5000
4800
4600
4400

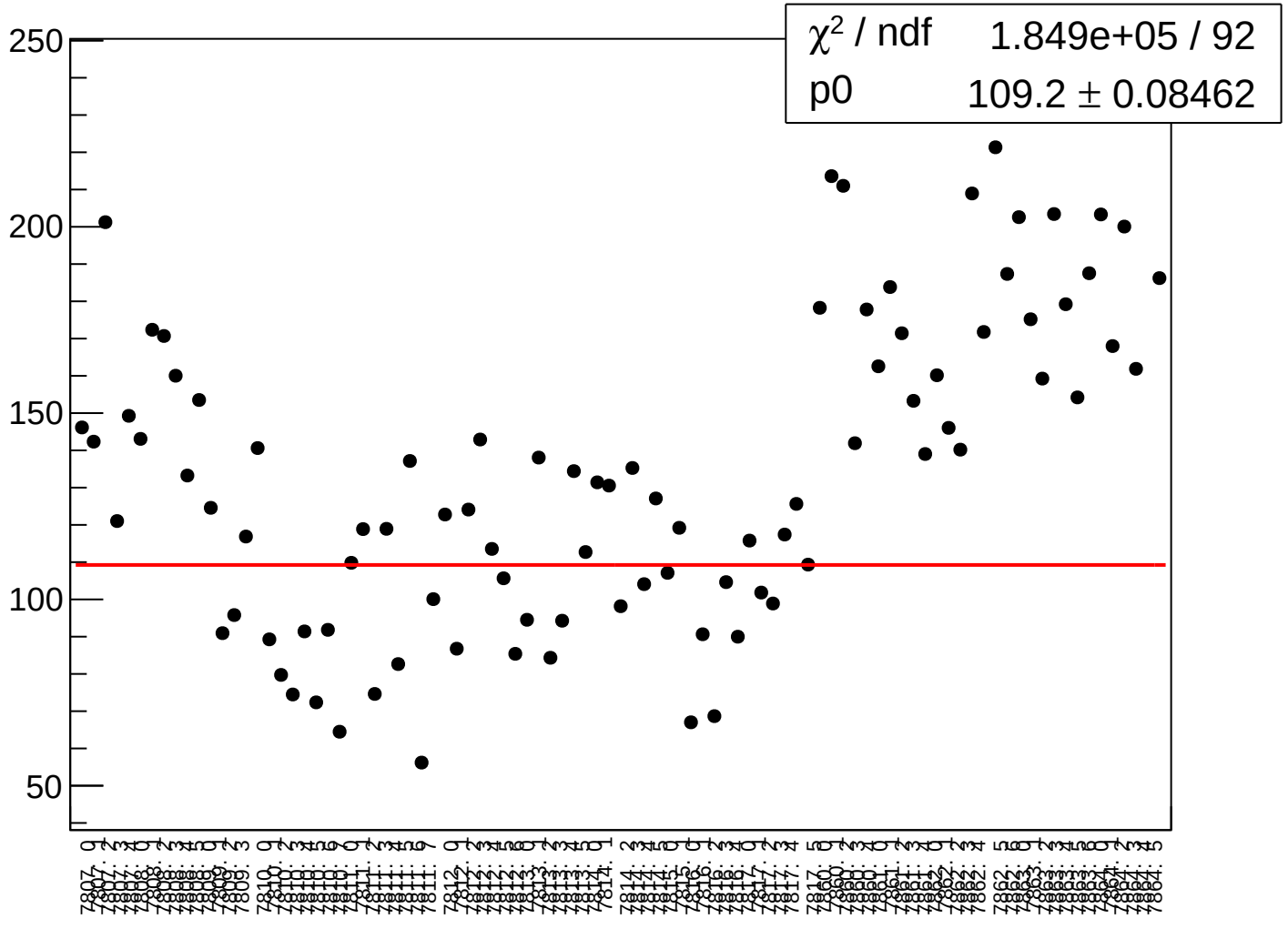

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 93.82 / 92
p0 −1.128e−12 ± 8.348e−13
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 93
Mean 76.74
Std Dev 29.95
pull1D
Entries 93
Mean −0.06116
Std Dev 1.003
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

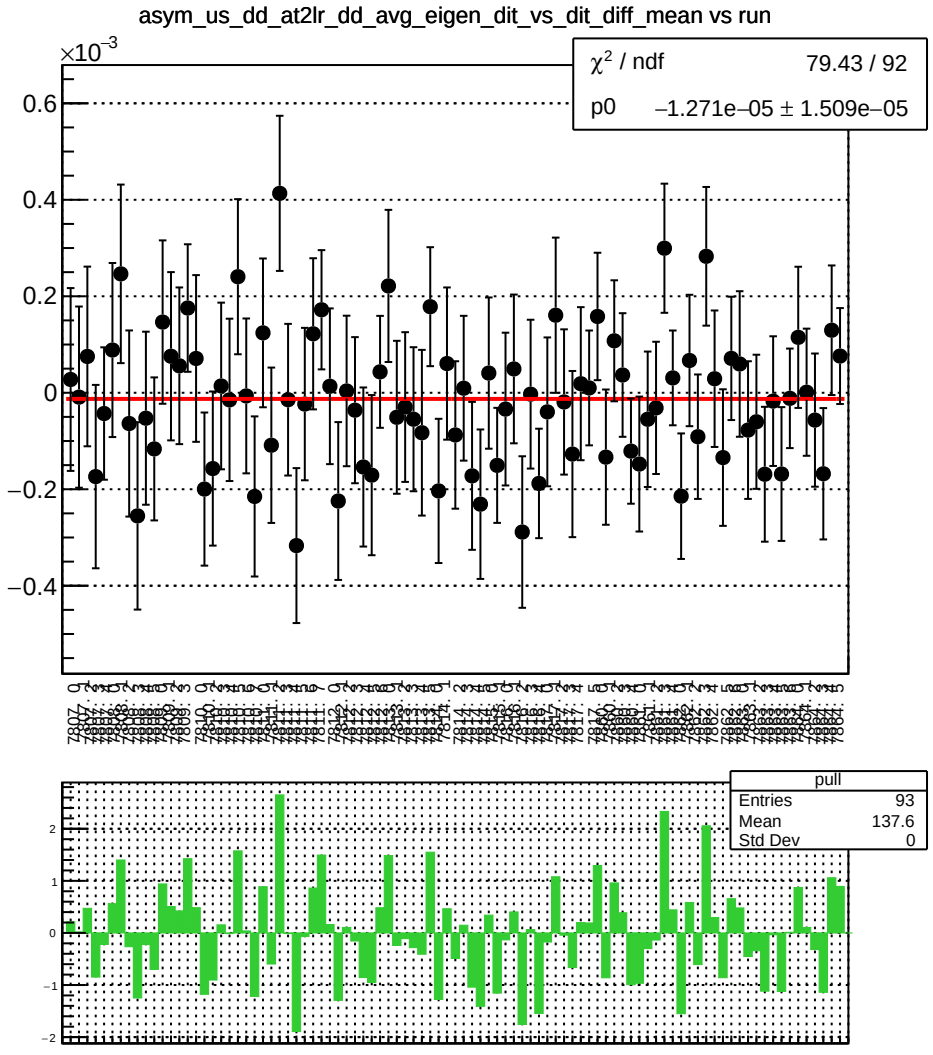

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.036e+06 / 92
p0 5.33e−10 ± 5.903e−13
1.2
1
0.8
0.6
0.4
0.2
0

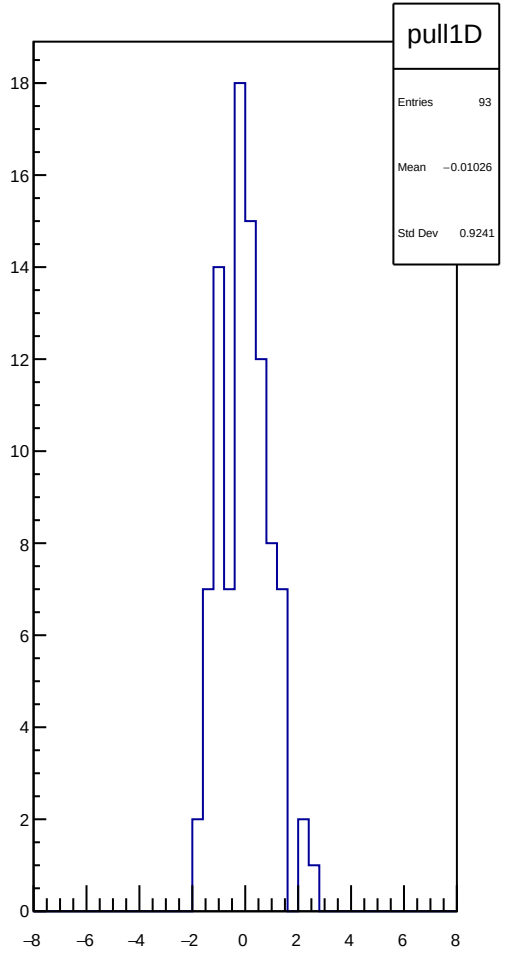

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 112.6 / 92
p0 0.06393 ± 0.1197
pull
Entries 93
Mean 100.7
Std Dev 0
pull1D
Entries 93
Mean −0.03412
Std Dev 1.1

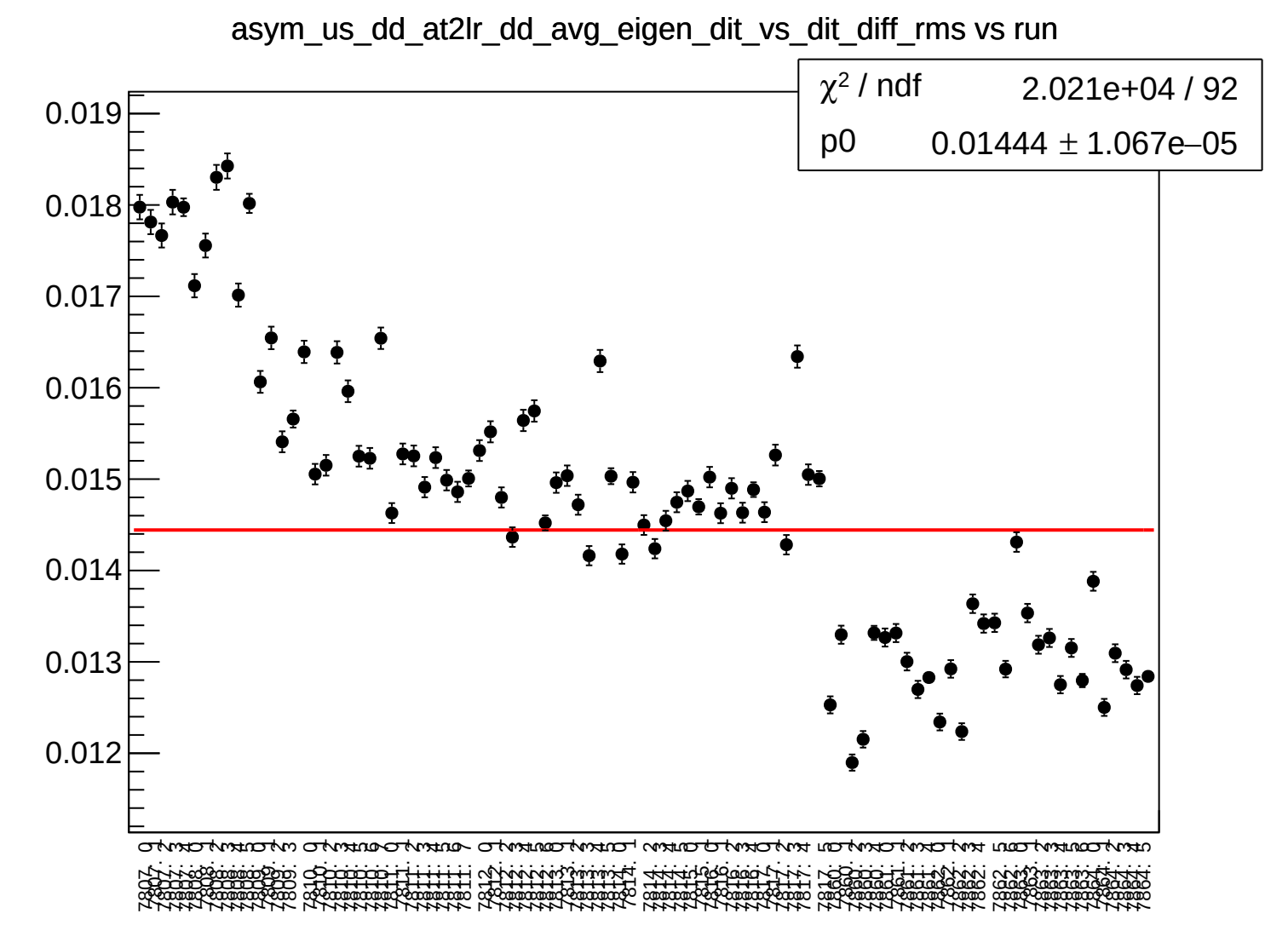

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.849e+05 / 92
p0 109.2 ± 0.08462
250
200
150
100
50

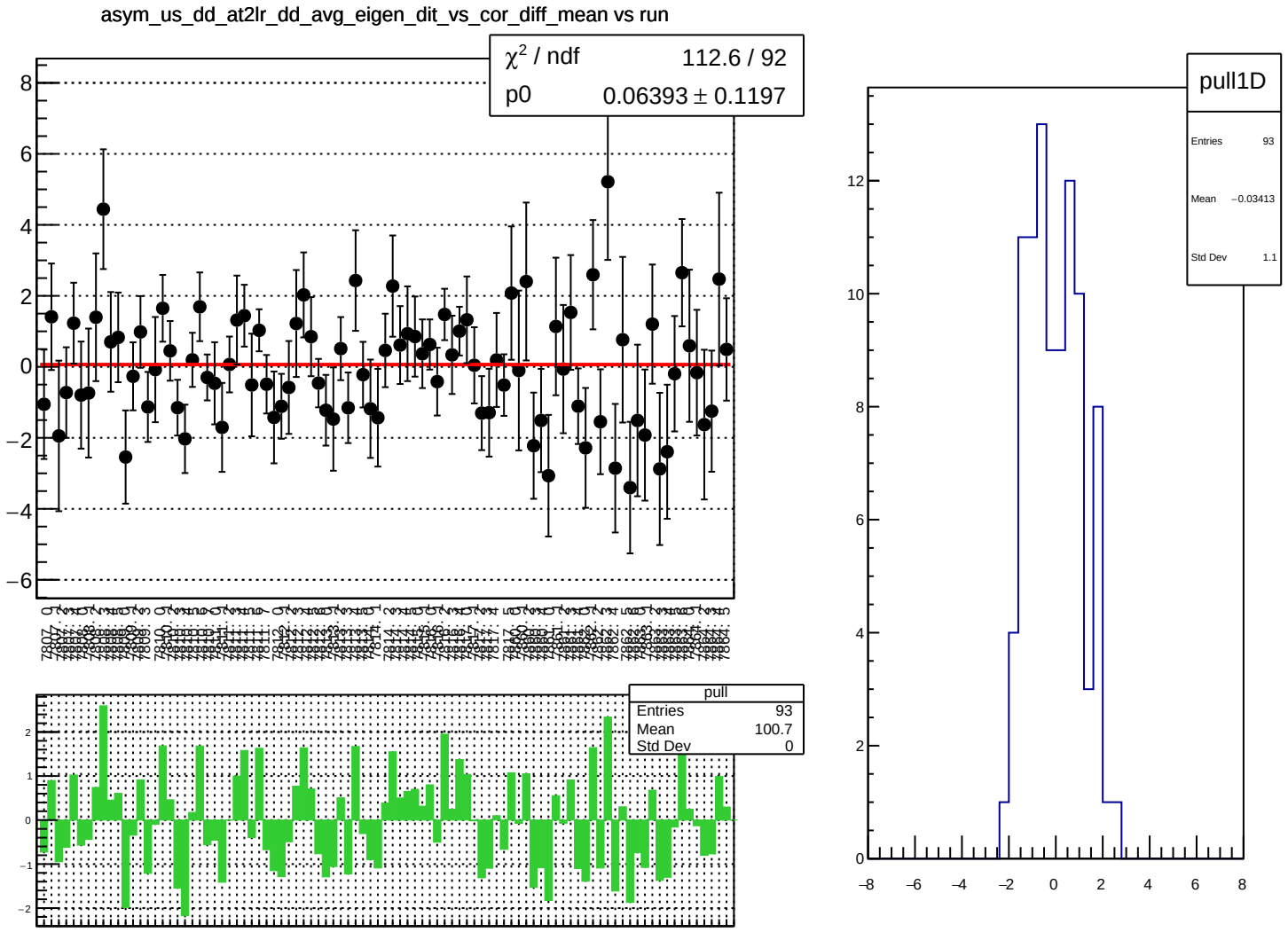

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 112.6 / 92
p0 0.06393 ± 0.1197
pull
Entries 93
Mean 100.7
Std Dev 0
pull1D
Entries 93
Mean −0.03412
Std Dev 1.1

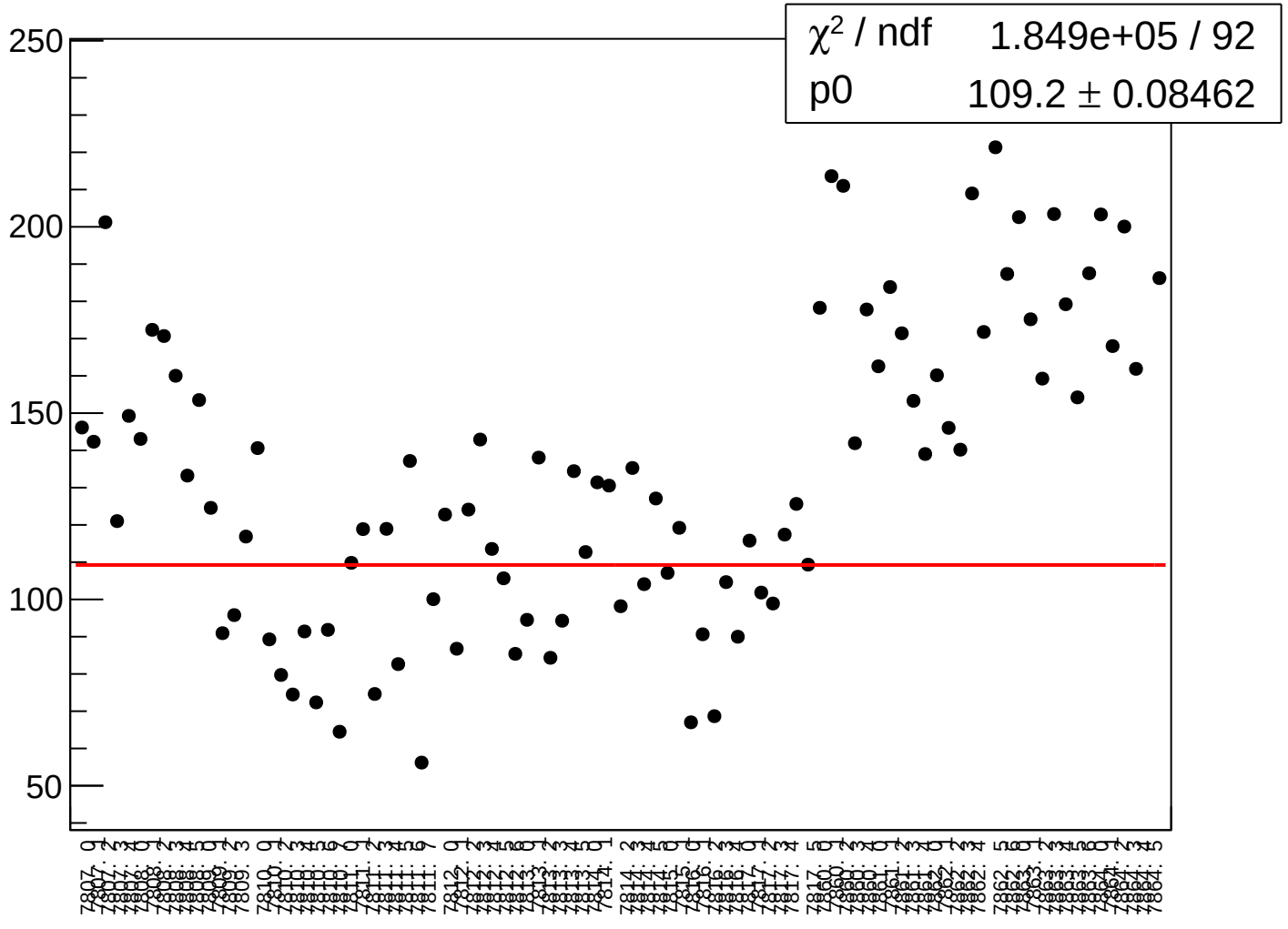

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.849e+05 / 92
p0 109.2 ± 0.08462
250
200
150
100
50

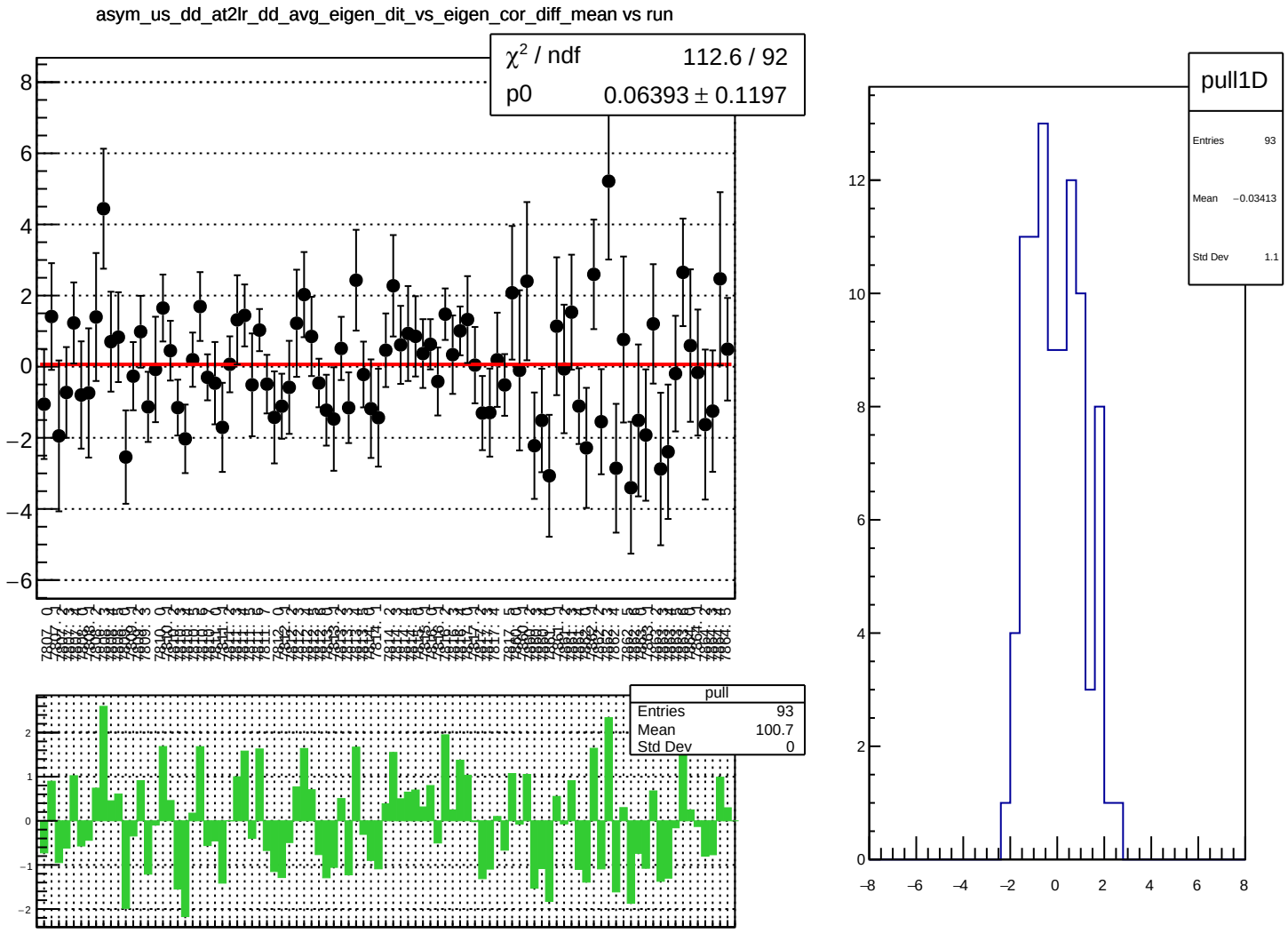

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 79.43 / 92
p0 −1.271e−05 ± 1.509e−05
pull
Entries 93
Mean 137.6
Std Dev 0

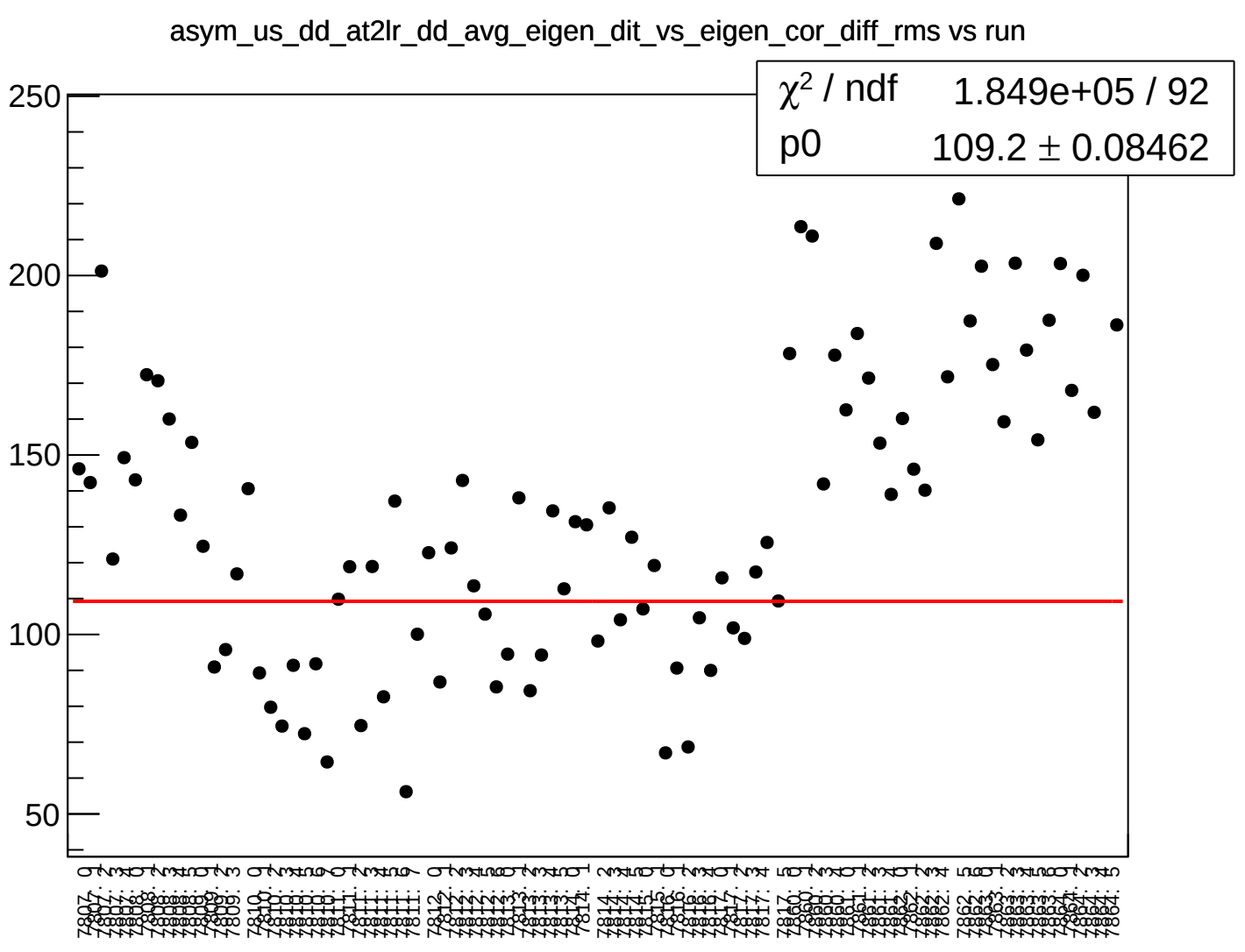

pull1D
Entries 93
Mean −0.01026
Std Dev 0.9241

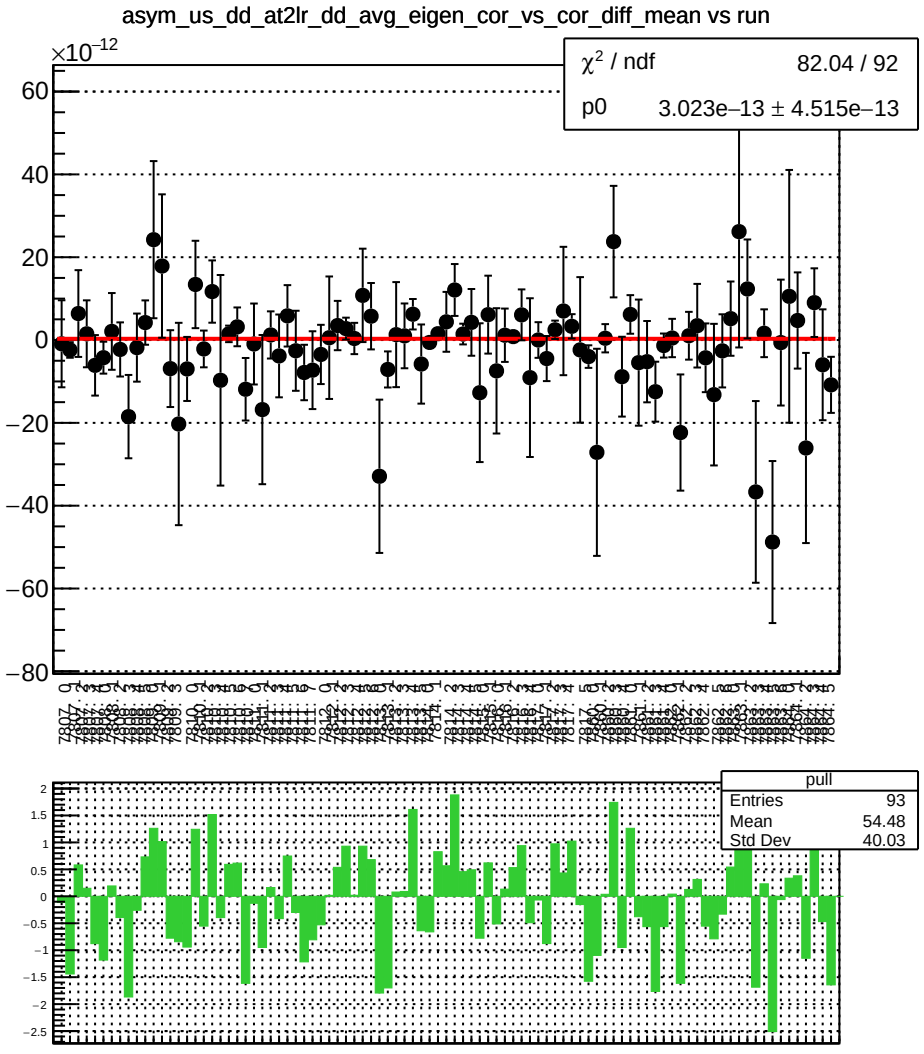

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.021e+04 / 92
p0 0.01444 ± 1.067e−05
0.019
0.018
0.017
0.016
0.015
0.014
0.013
0.012

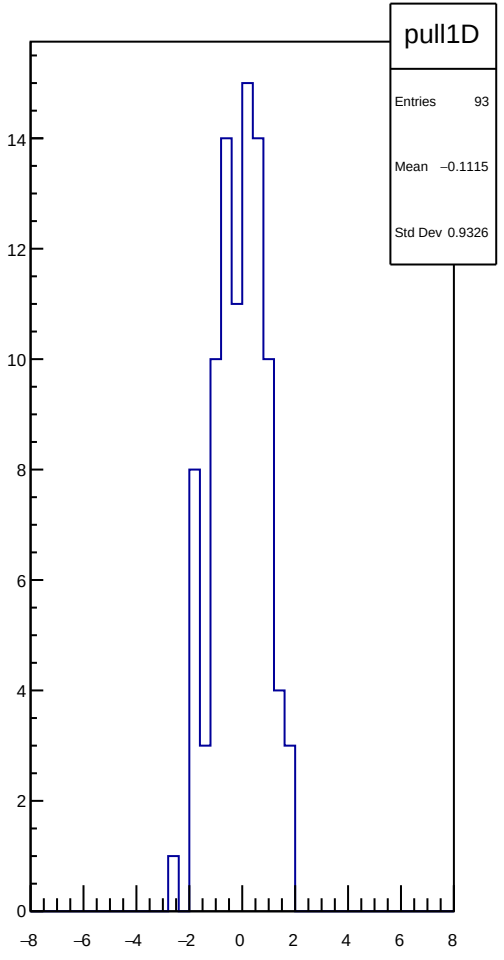

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 112.6 / 92
p0 0.06393 ± 0.1197
pull
Entries 93
Mean 100.7
Std Dev 0
pull1D
Entries 93
Mean −0.03413
Std Dev 1.1

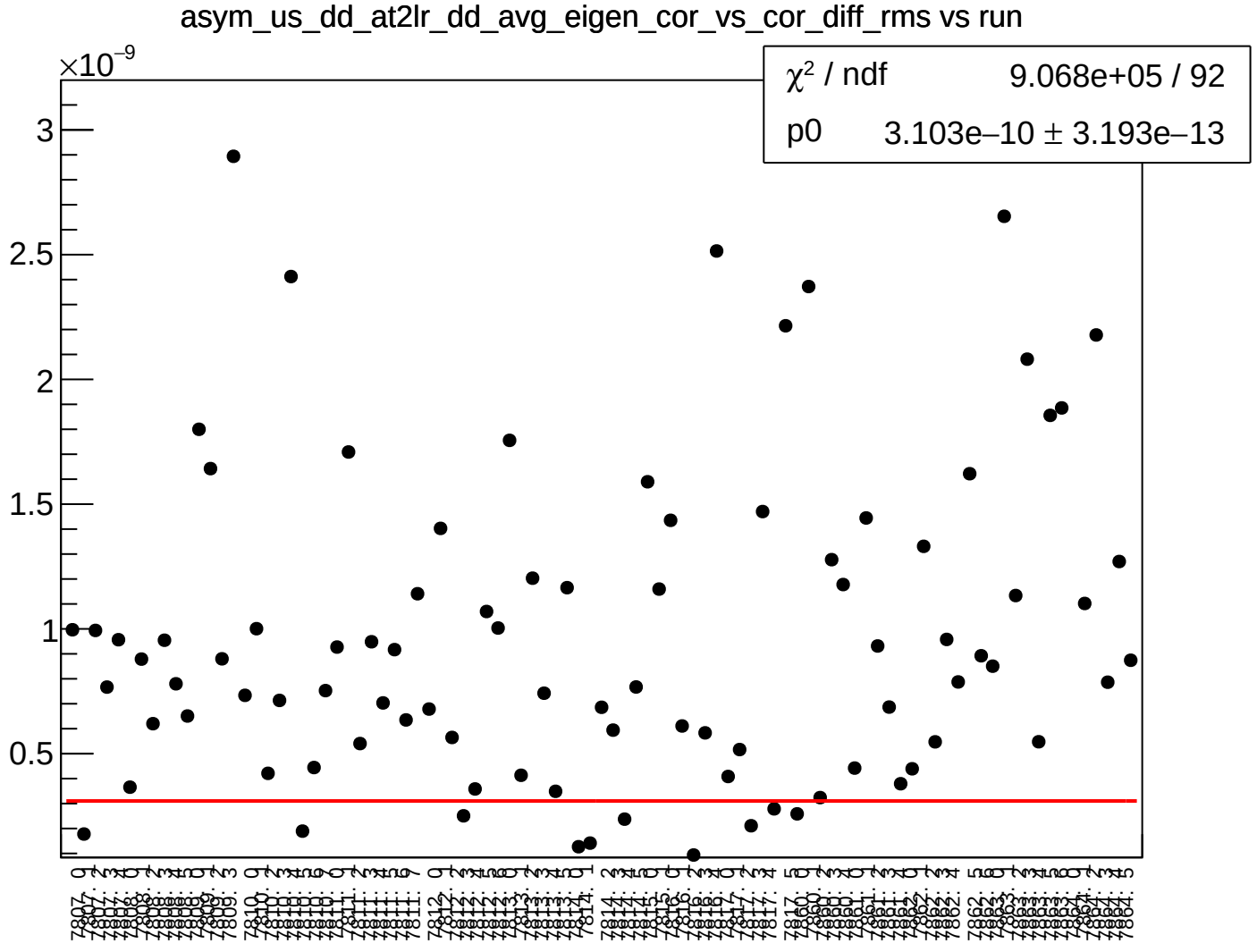

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.849e+05 / 92
p0 109.2 ± 0.08462
250
200
150
100
50

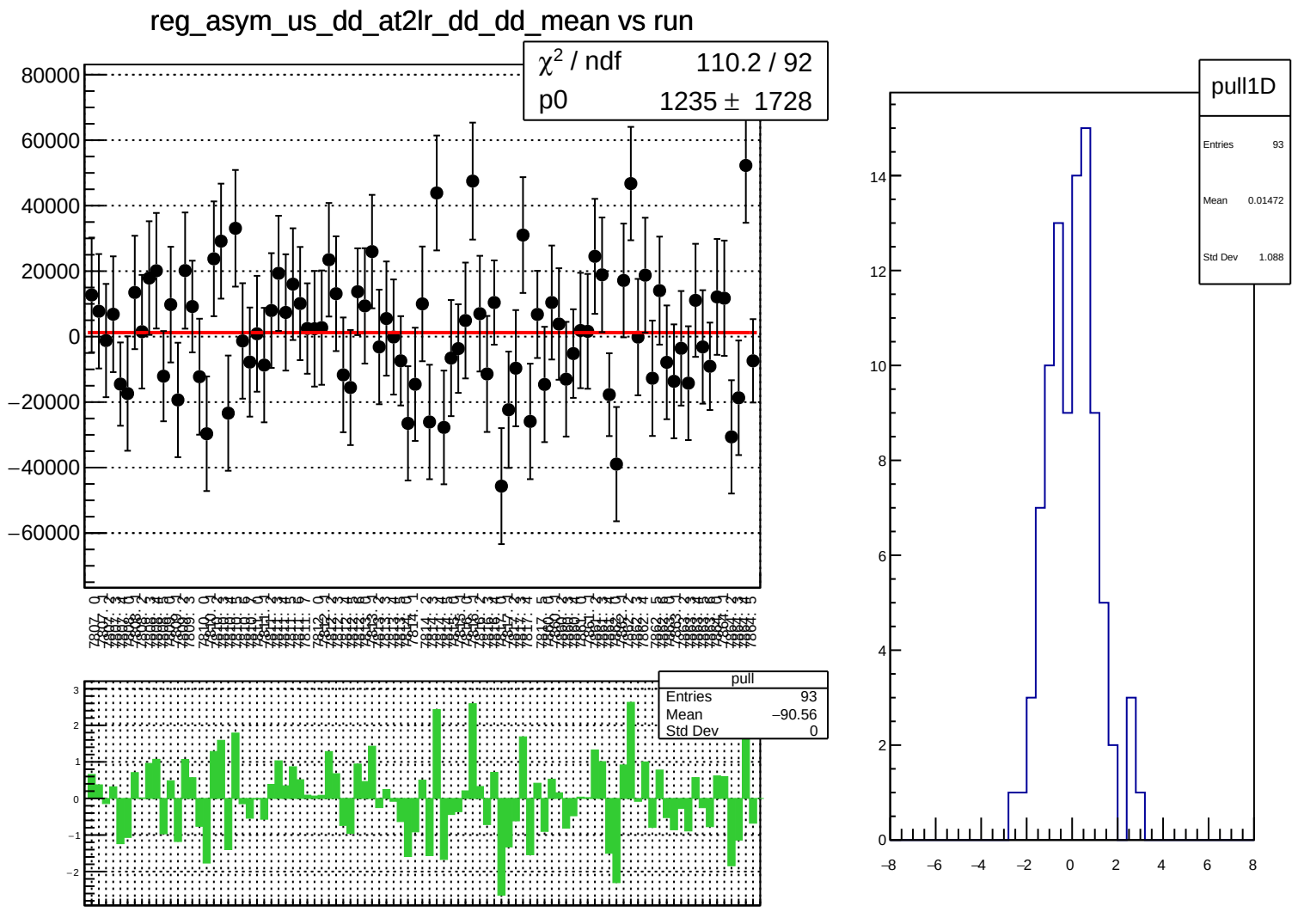

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 112.6 / 92
p0 0.06393 ± 0.1197
pull
Entries 93
Mean 100.7
Std Dev 0
pull1D
Entries 93
Mean −0.03413
Std Dev 1.1

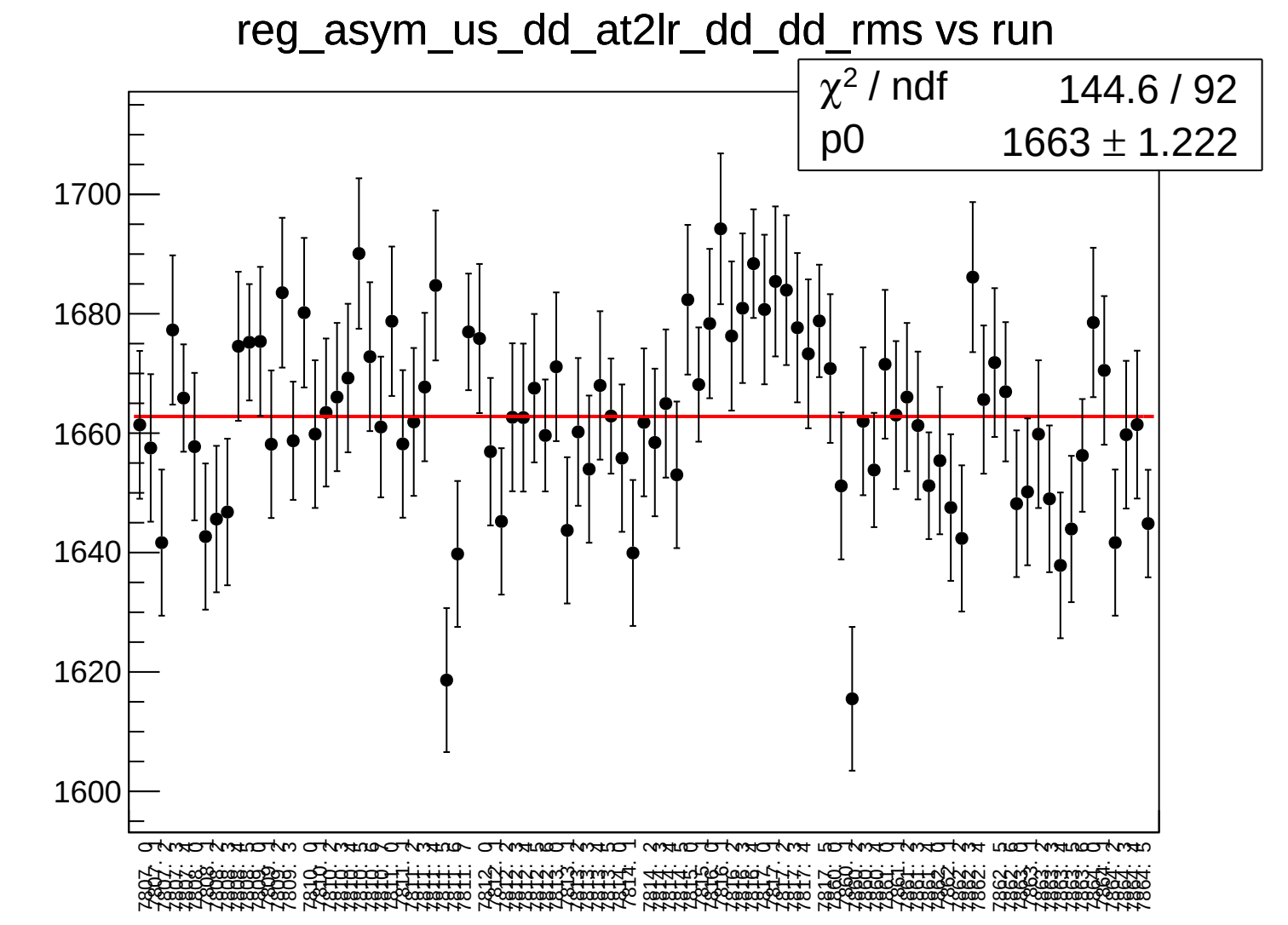

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.849e+05 / 92
p0 109.2 ± 0.08462
250
200
150
100
50

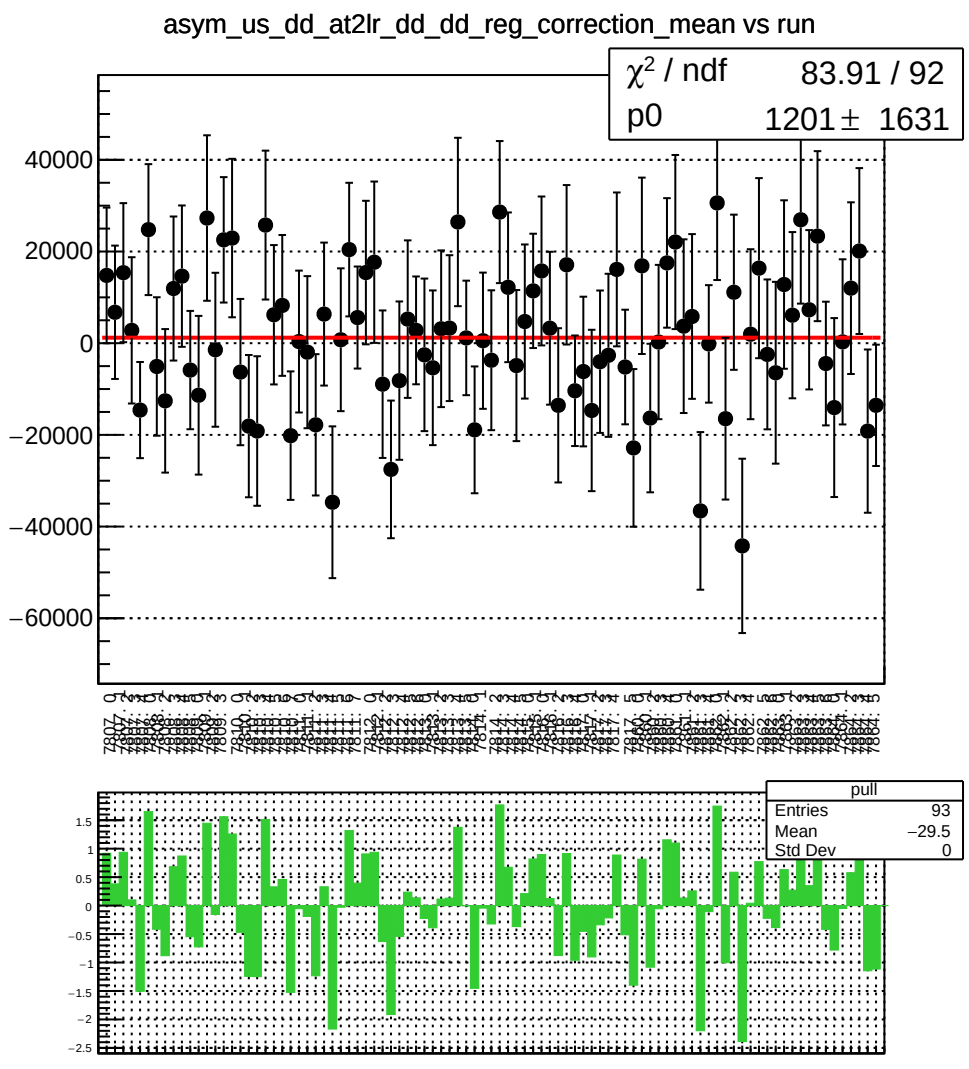

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.04 / 92
p0 3.023e−13 ± 4.515e−13
pull
Entries 93
Mean 54.48
Std Dev 40.03

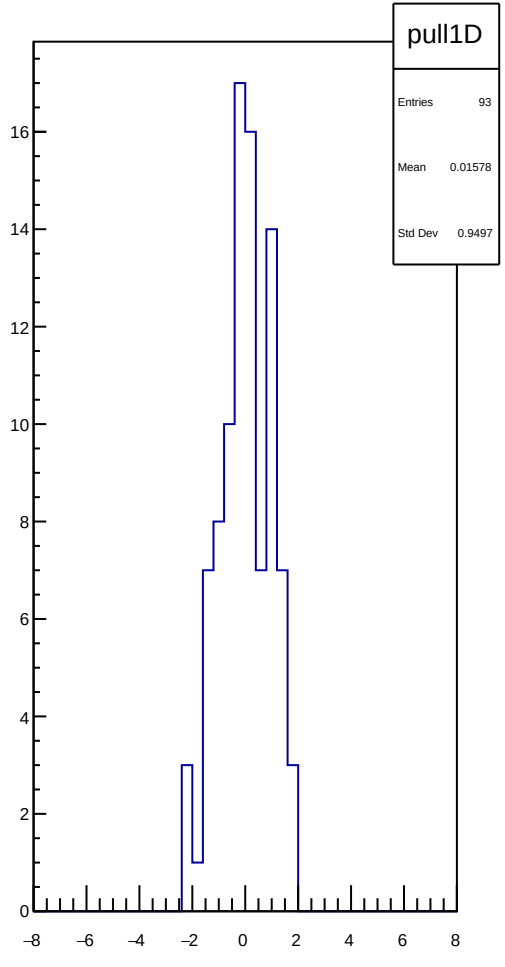

pull1D
Entries 93
Mean −0.1115
Std Dev 0.9326

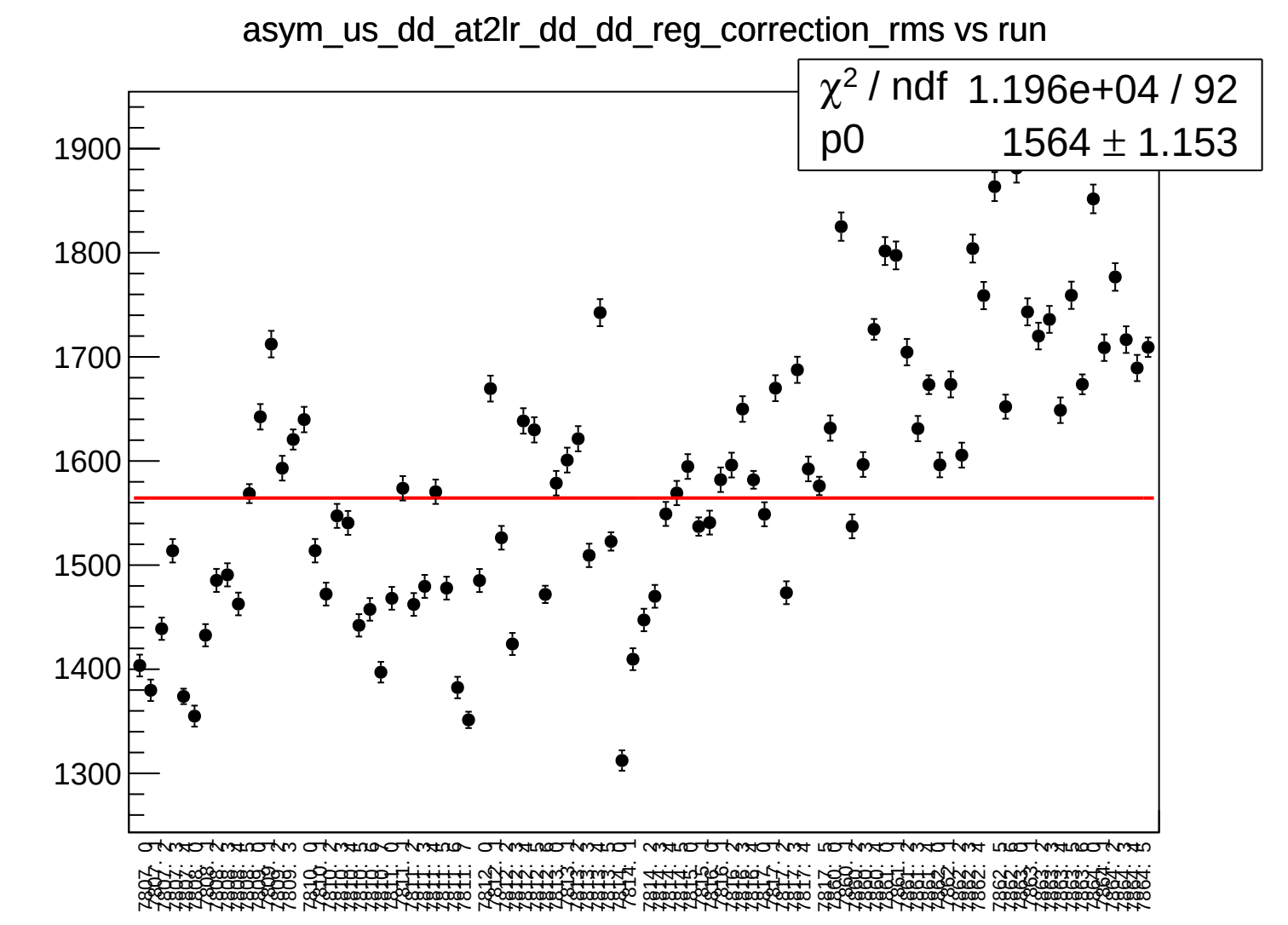

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.068e+05 / 92
p0 3.103e−10 ± 3.193e−13
3
2.5
2
1.5
1
0.5

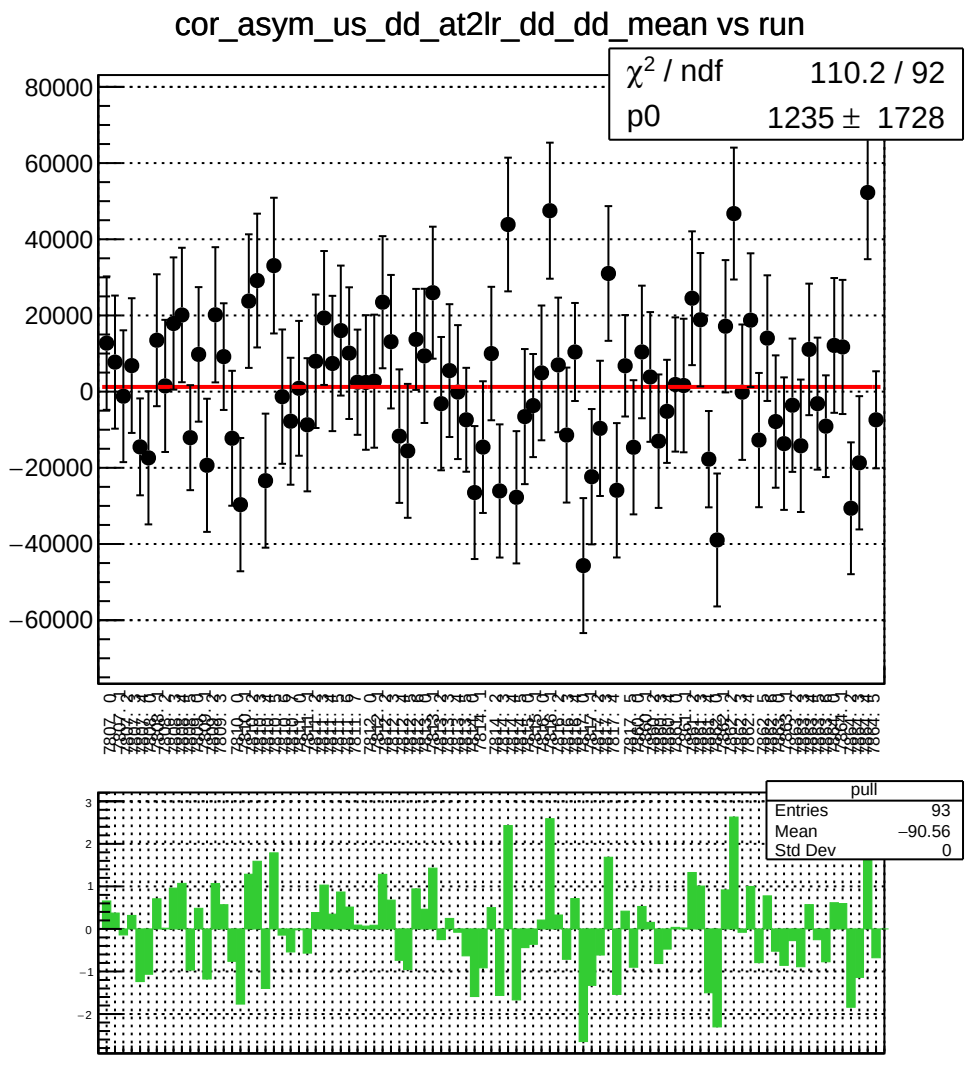

reg_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 110.2 / 92
p0 1235 ± 1728
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −90.56
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.01472
Std Dev 1.088
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

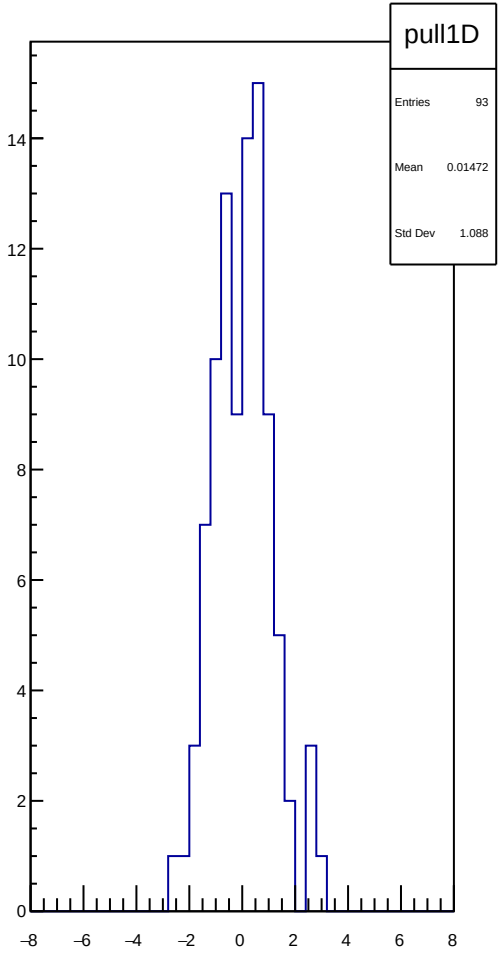

reg_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 144.6 / 92
p0 1663 ± 1.222
1700
1680
1660
1640
1620
1600

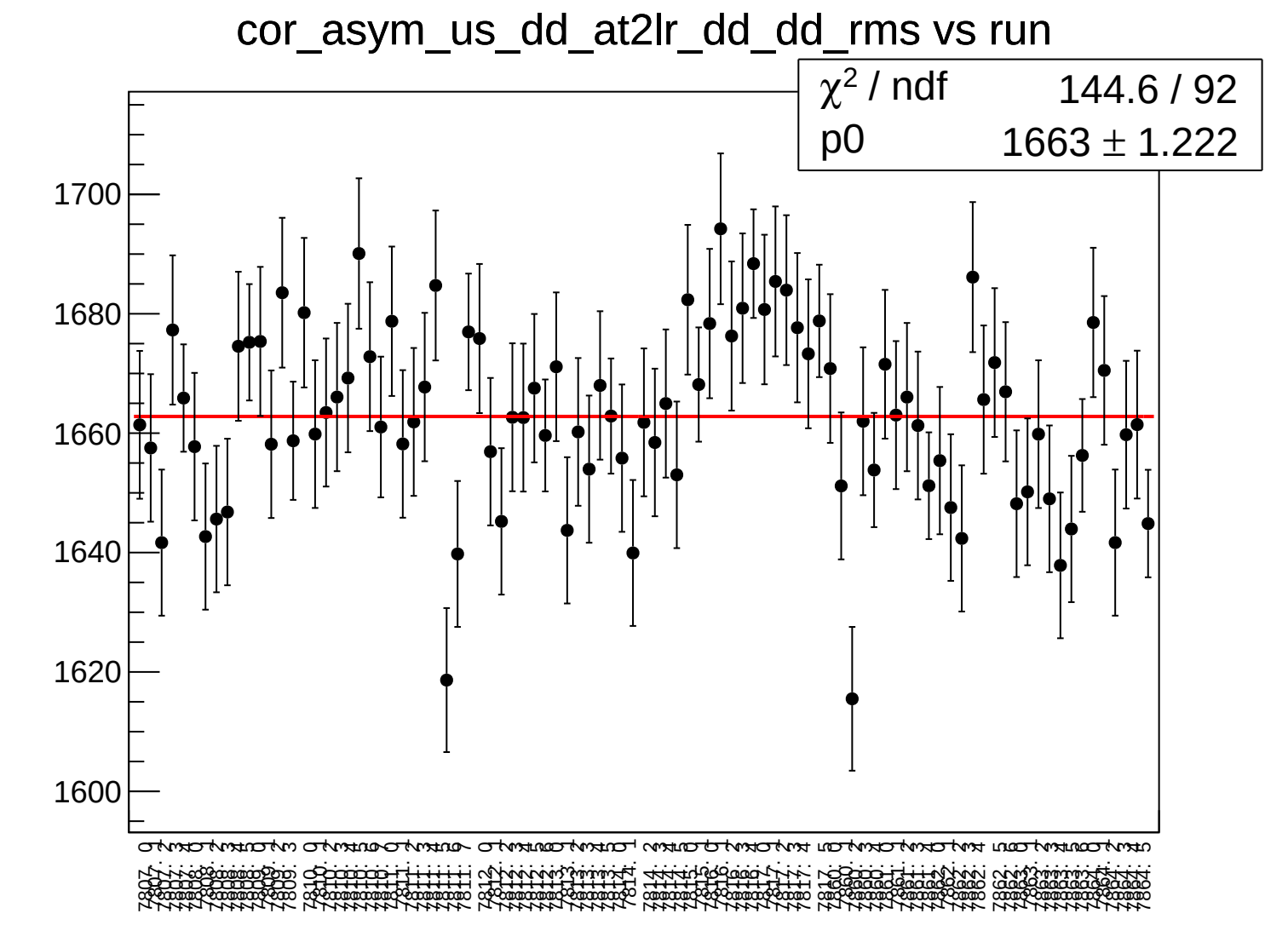

asym_us_dd_at2lr_dd_dd_reg_correction_mean vs run
χ² / ndf 83.91 / 92
p0 1201 ± 1631
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −29.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

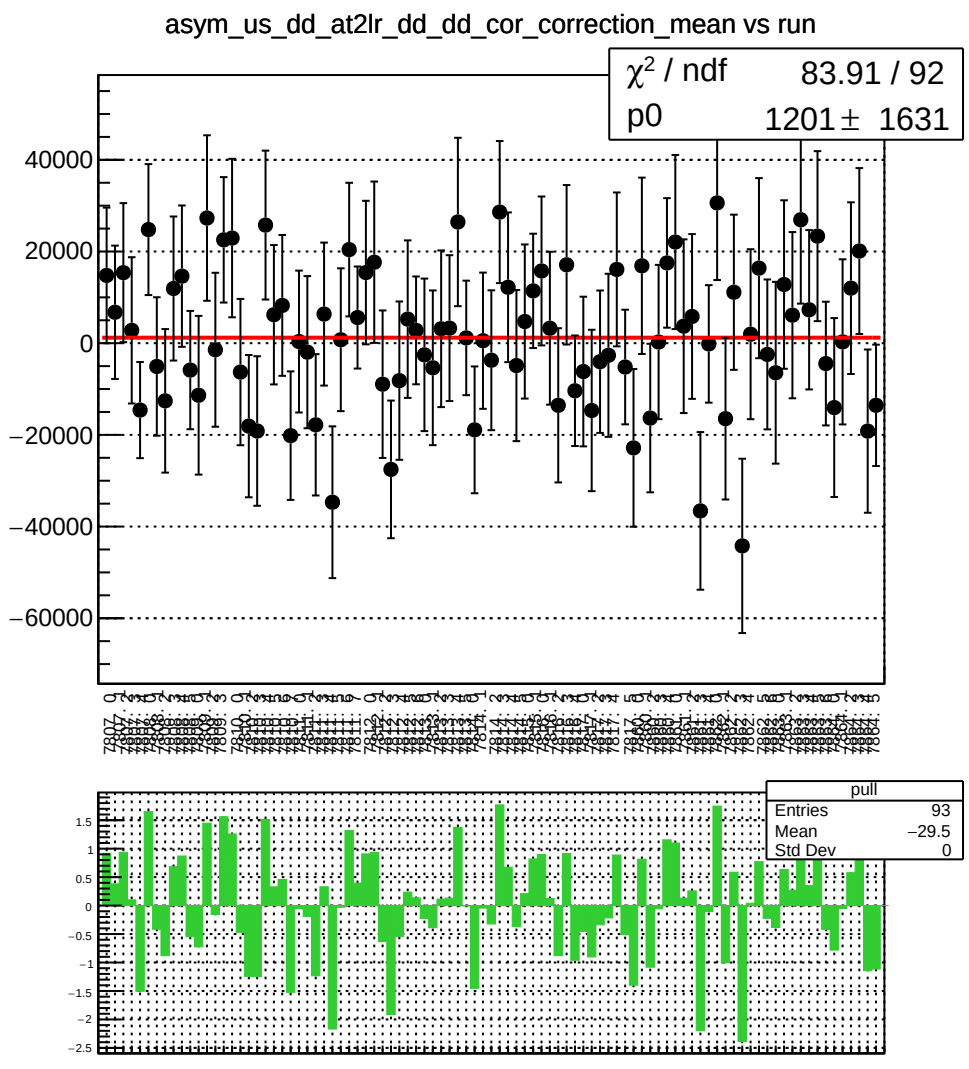

pull1D
Entries 93
Mean 0.01578
Std Dev 0.9497
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

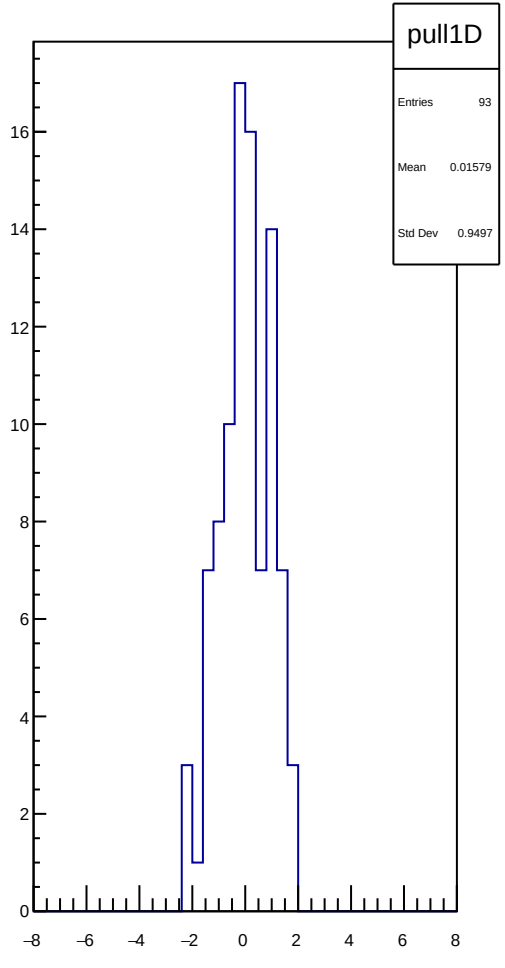

asym_us_dd_at2lr_dd_dd_reg_correction_rms vs run
χ² / ndf 1.196e+04 / 92
p0 1564 ± 1.153
1900
1800
1700
1600
1500
1400
1300

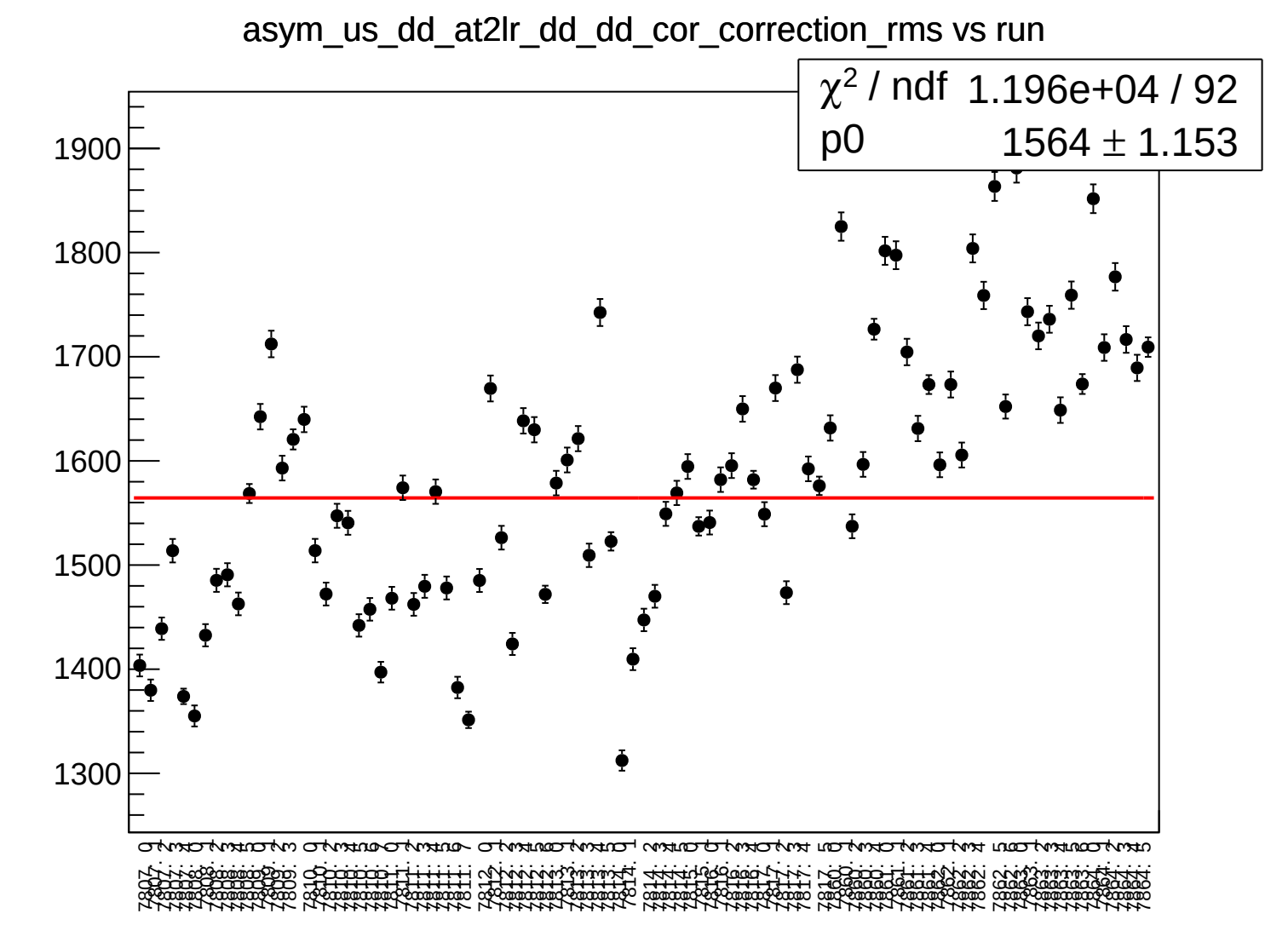

cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 110.2 / 92
p0 1235 ± 1728
pull
Entries 93
Mean −90.56
Std Dev 0

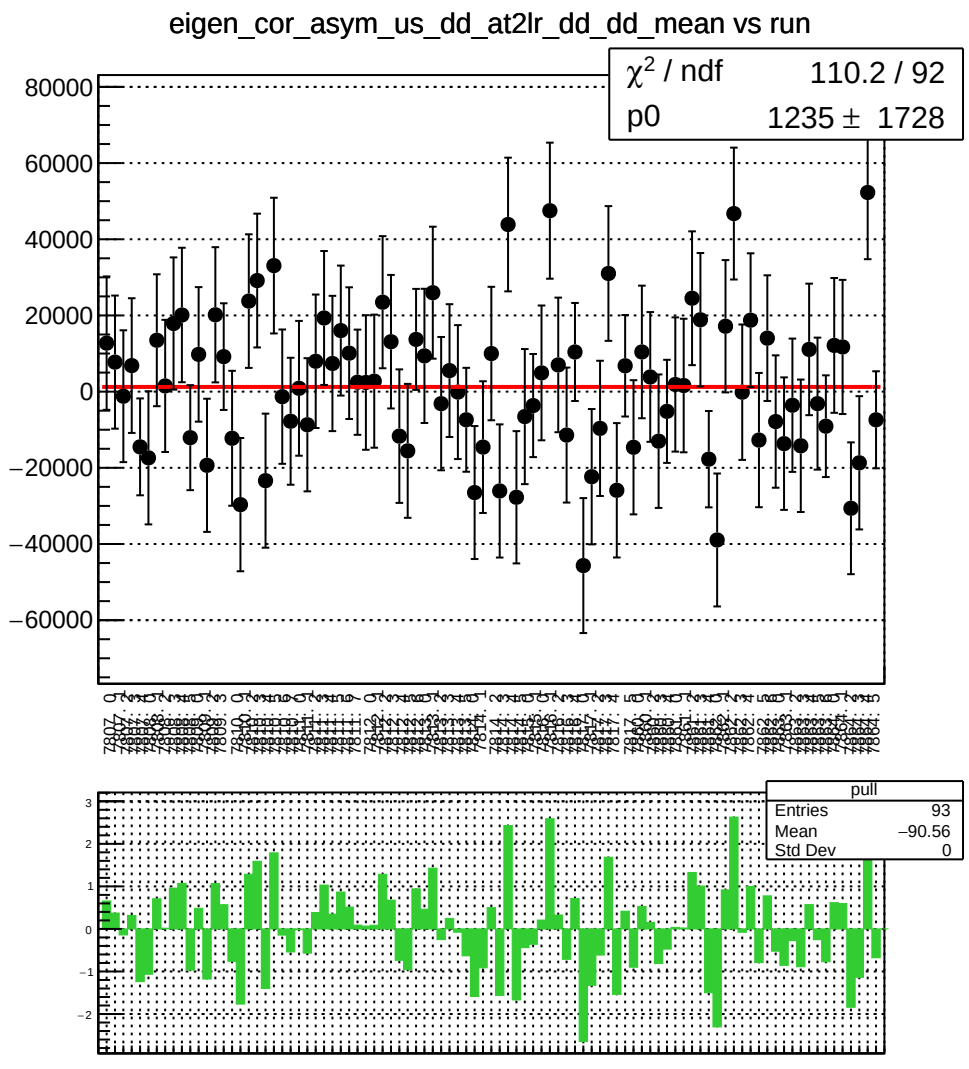

pull1D
Entries 93
Mean 0.01472
Std Dev 1.088

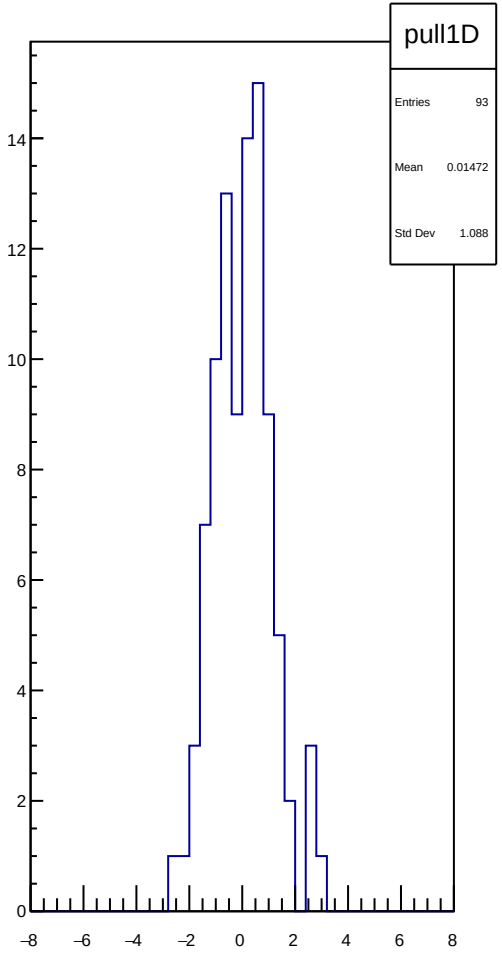

cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 144.6 / 92
p0 1663 ± 1.222
1700
1680
1660
1640
1620
1600

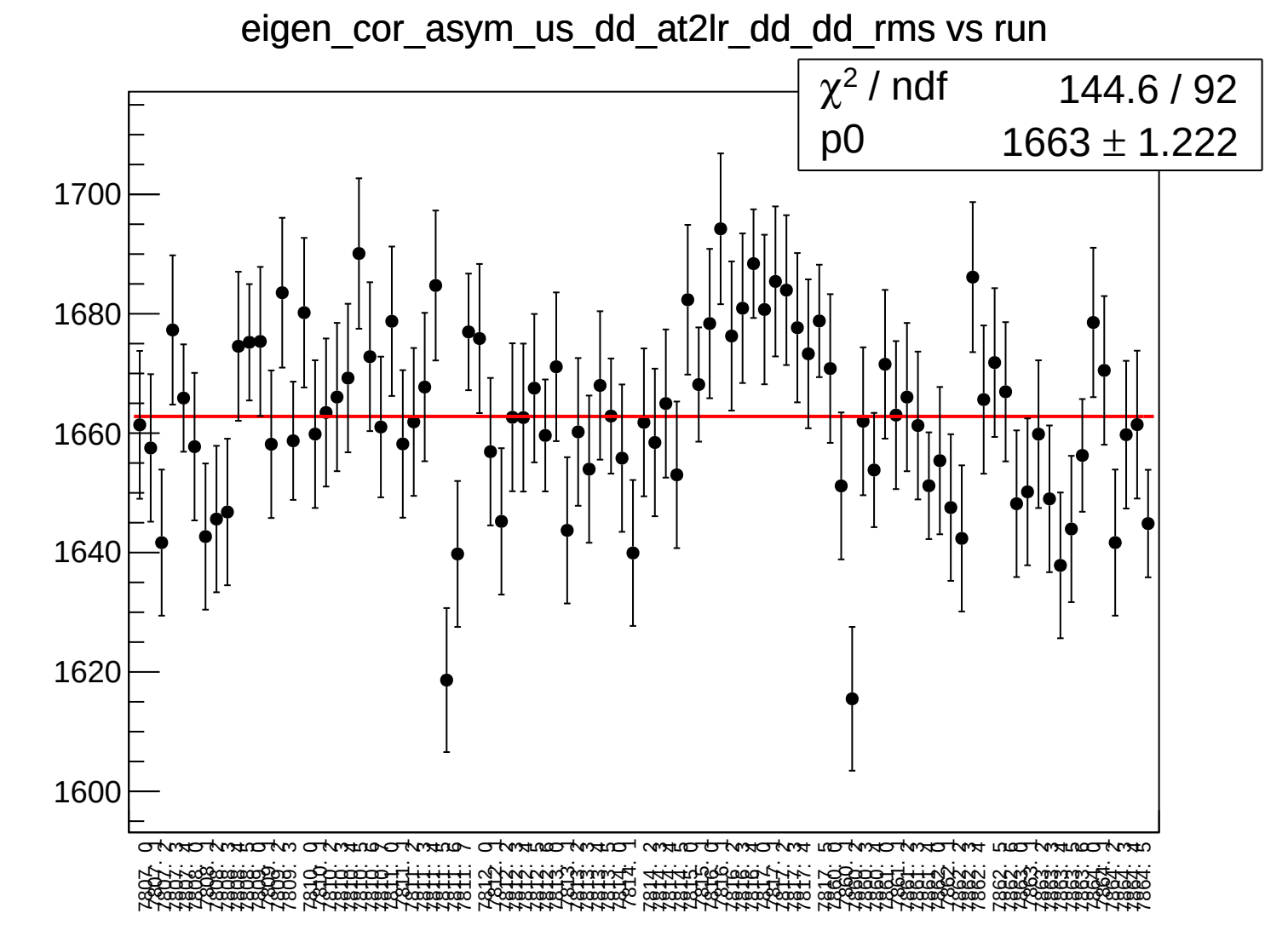

asym_us_dd_at2lr_dd_dd_cor_correction_mean vs run
χ² / ndf 83.91 / 92
p0 1201 ± 1631
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −29.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

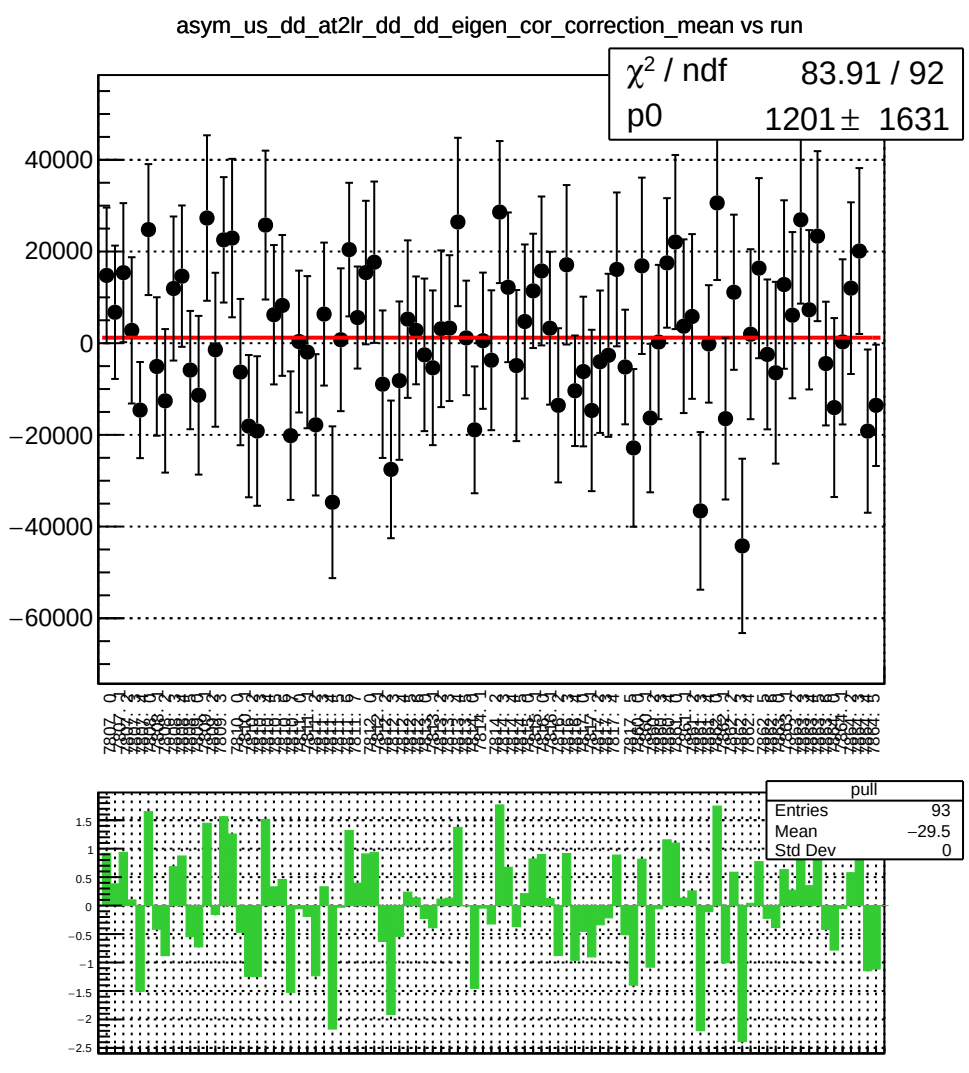

pull1D
Entries 93
Mean 0.01579
Std Dev 0.9497
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

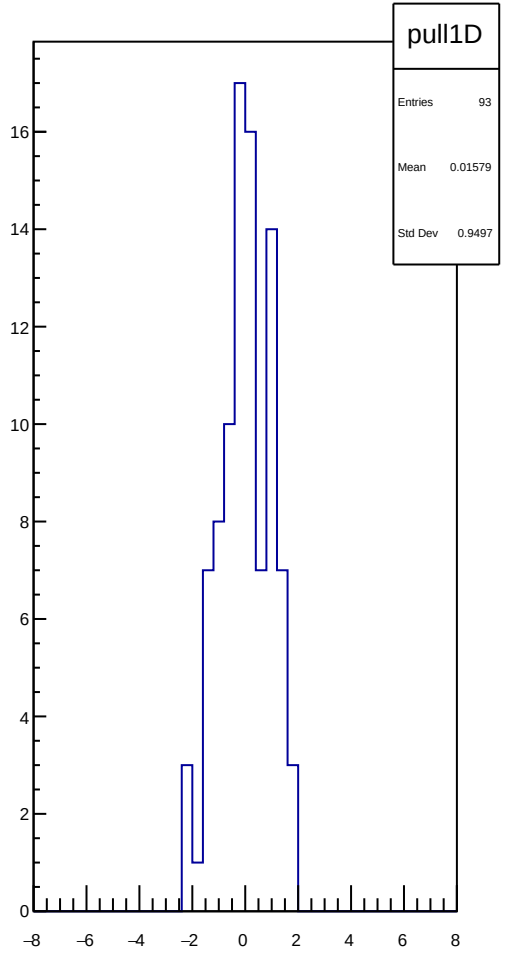

asym_us_dd_at2lr_dd_dd_cor_correction_rms vs run
χ² / ndf 1.196e+04 / 92
p0 1564 ± 1.153
1900
1800
1700
1600
1500
1400
1300

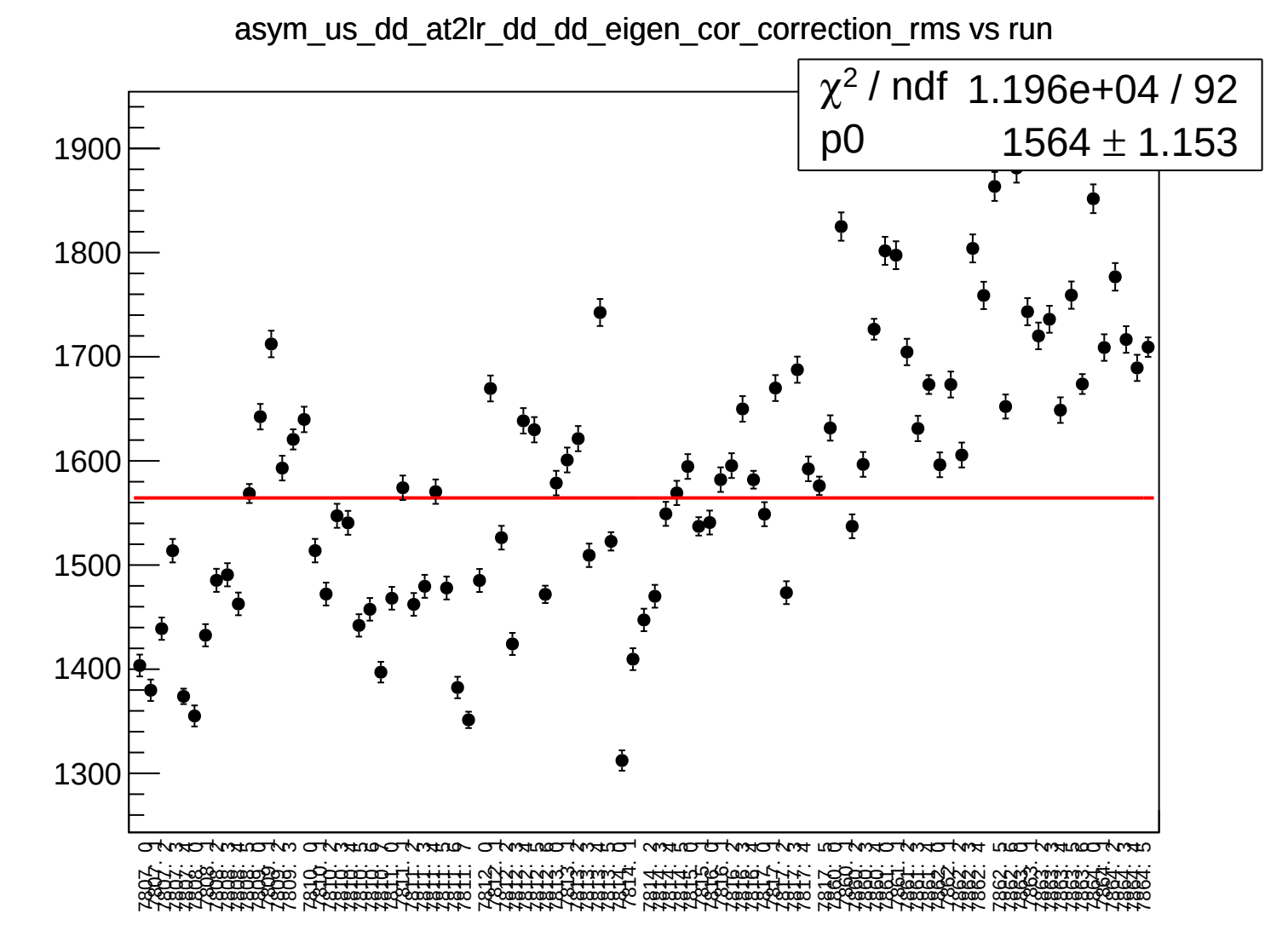

eigen_cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 110.2 / 92
p0 1235 ± 1728
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −90.56
Std Dev 0
3
2
1
0
−1
−2

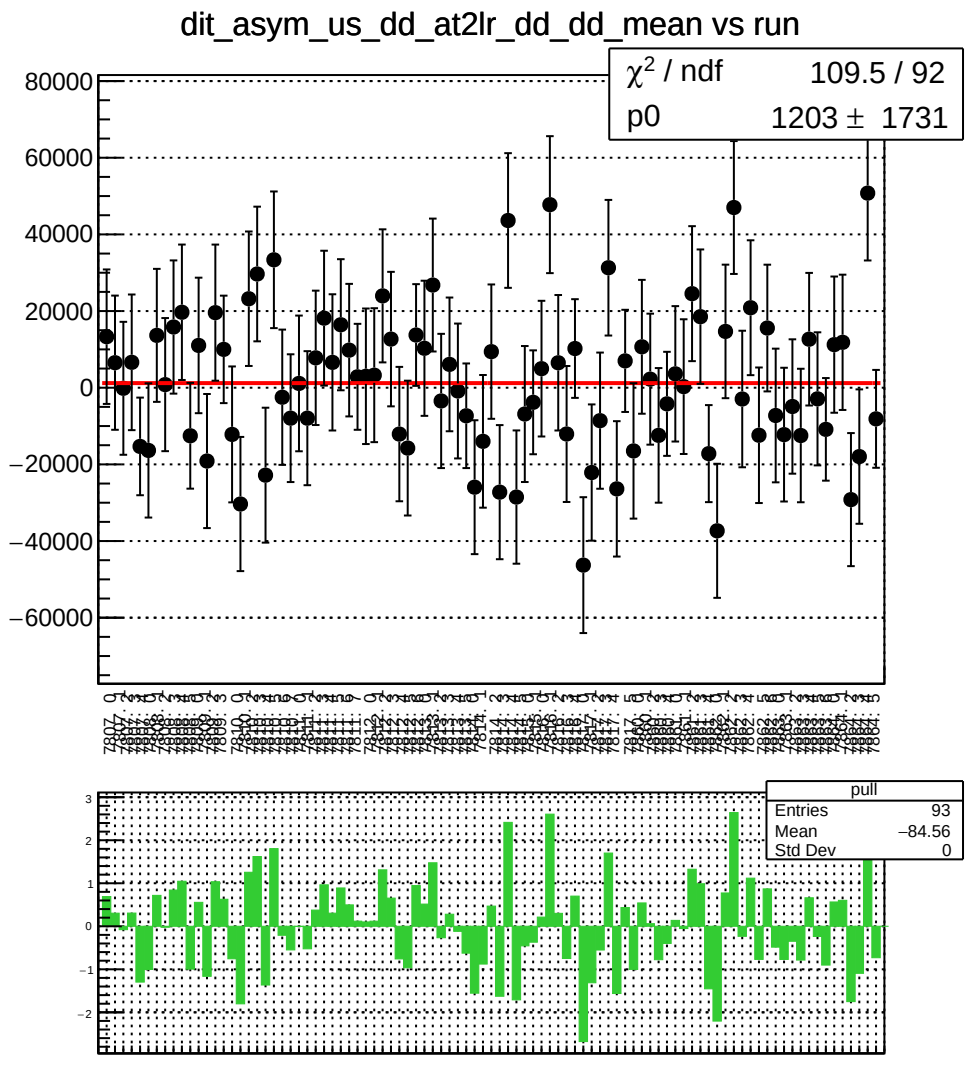

pull1D
Entries 93
Mean 0.01472
Std Dev 1.088
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

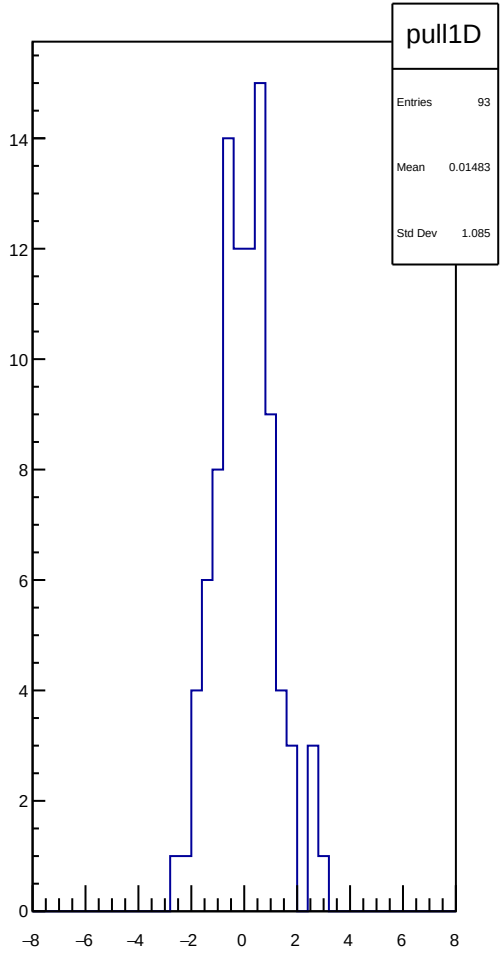

eigen_cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 144.6 / 92
p0 1663 ± 1.222
1700
1680
1660
1640
1620
1600

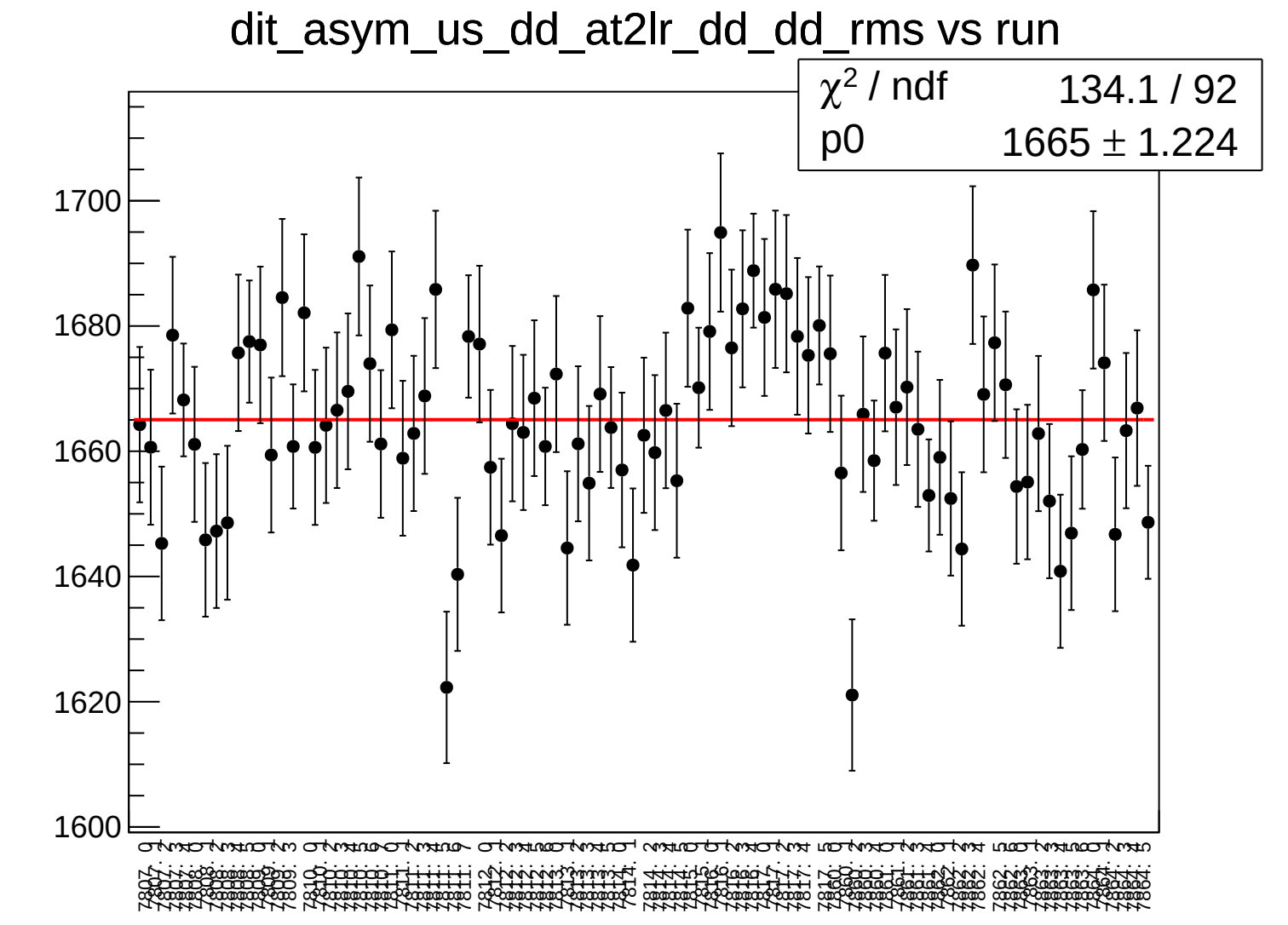

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 83.91 / 92
p0 1201 ± 1631
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −29.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

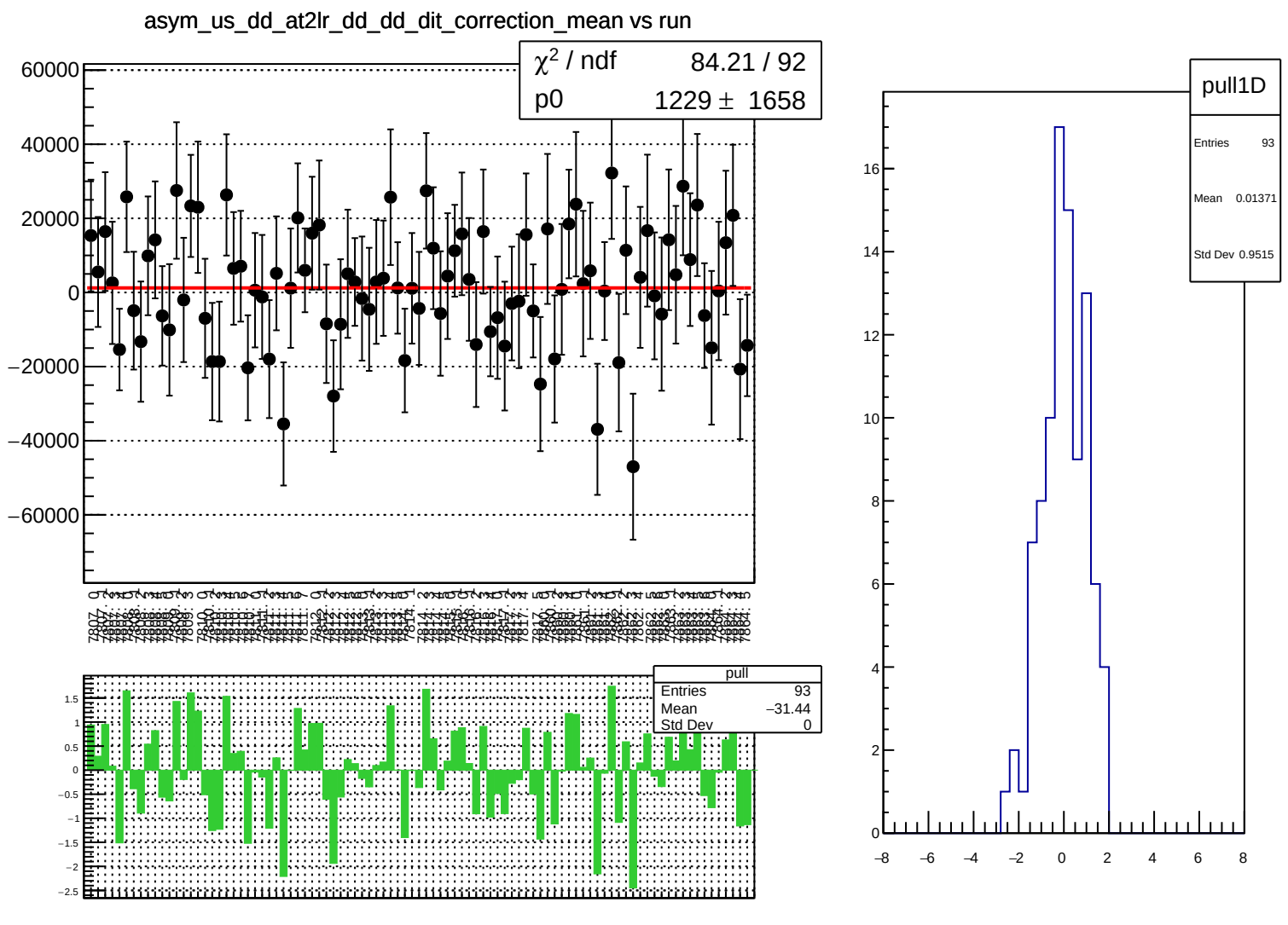

pull1D
Entries 93
Mean 0.01579
Std Dev 0.9497
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

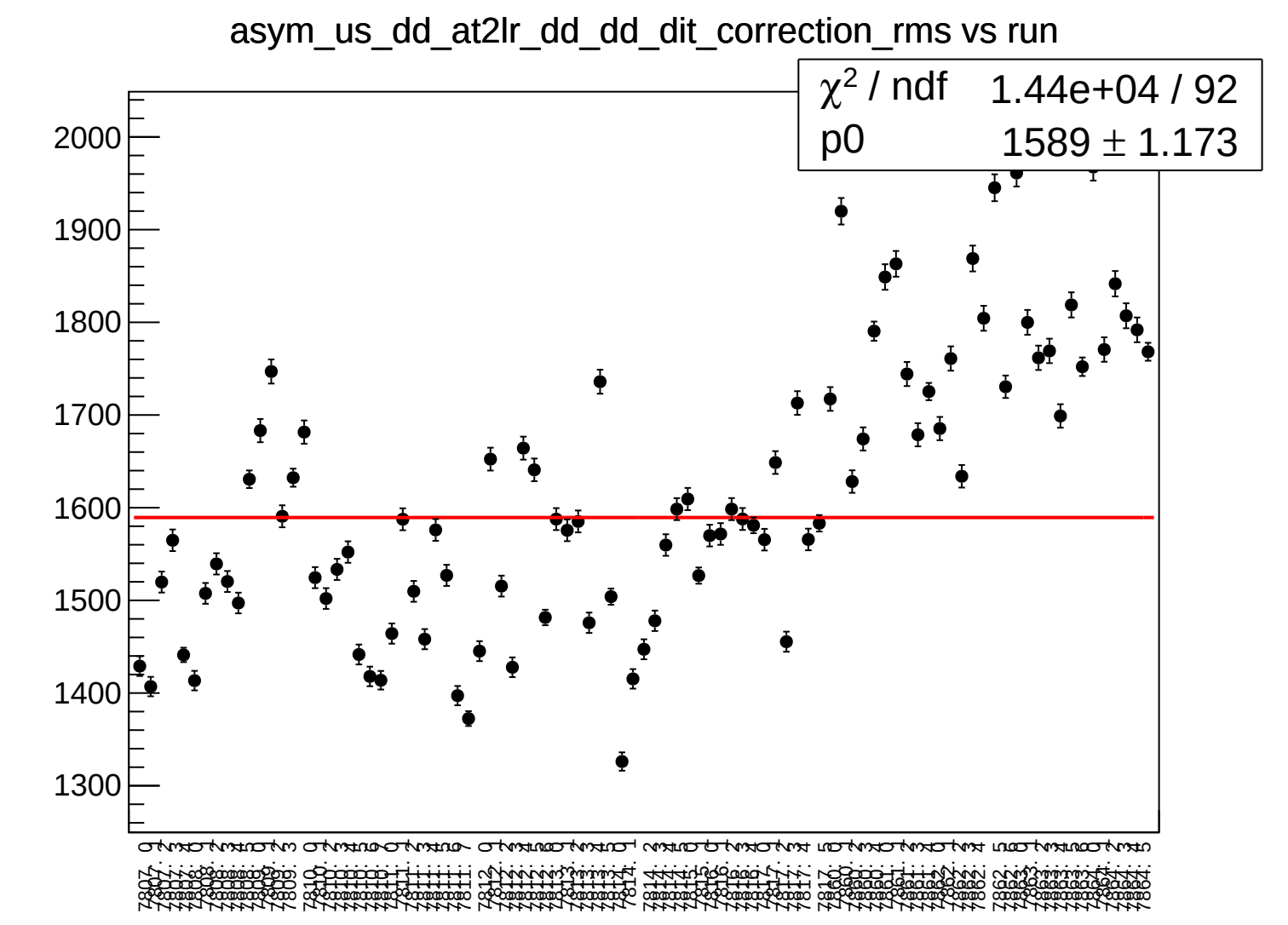

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.196e+04 / 92
p0 1564 ± 1.153
1900
1800
1700
1600
1500
1400
1300

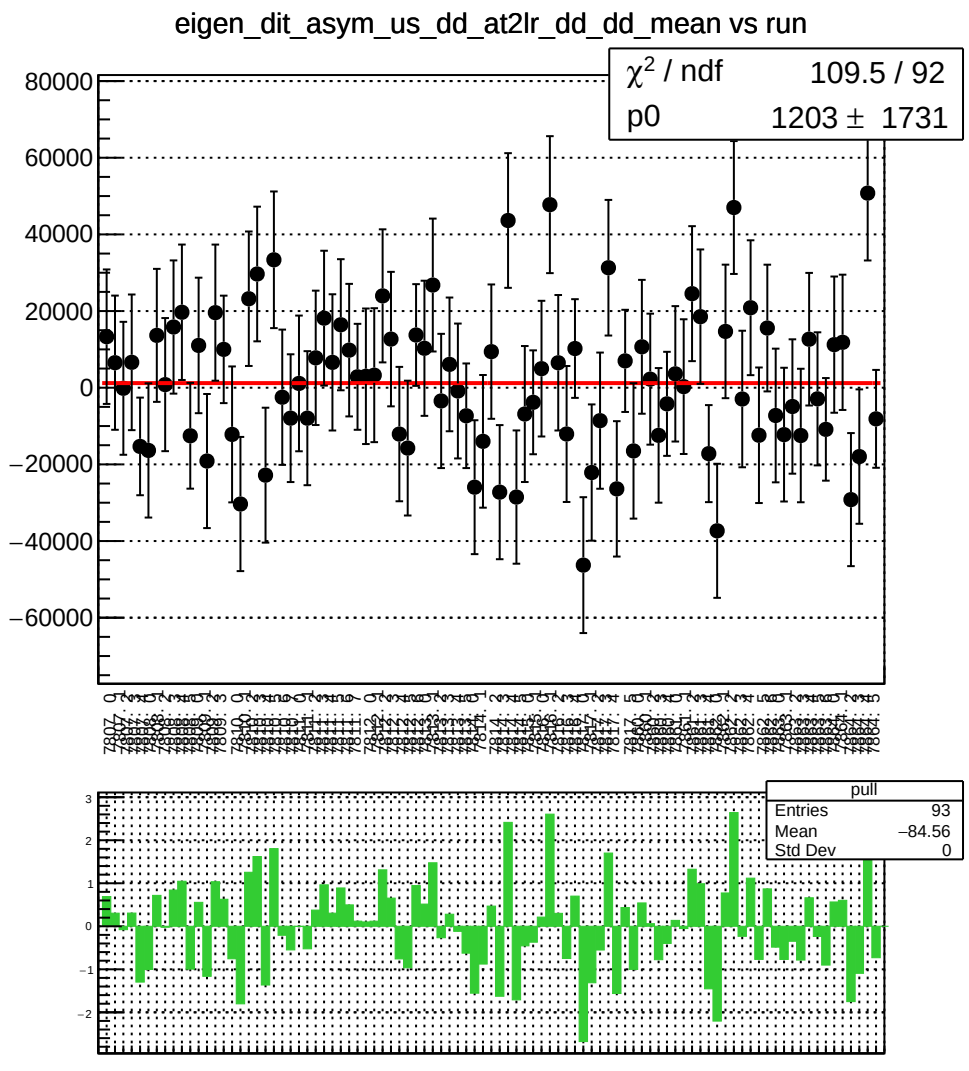

dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 109.5 / 92
p0 1203 ± 1731
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −84.56
Std Dev 0
3
2
1
0
−1
−2

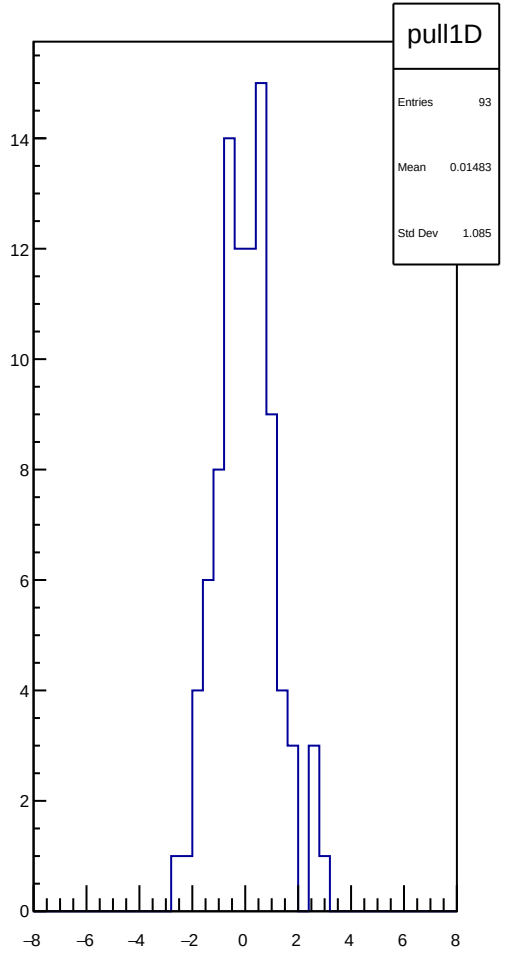

pull1D
Entries 93
Mean 0.01483
Std Dev 1.085
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

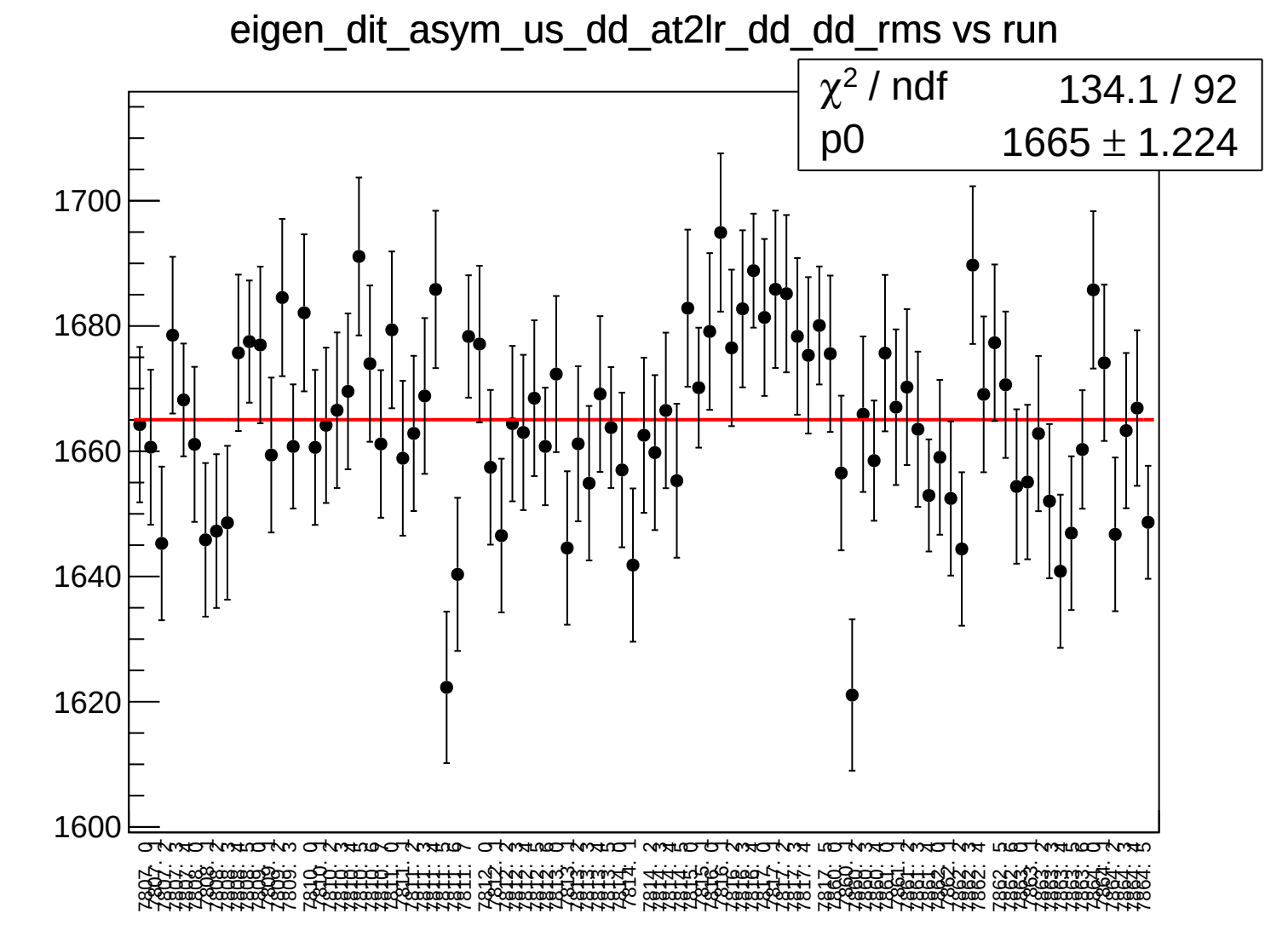

dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 134.1 / 92
p0 1665 ± 1.224
1700
1680
1660
1640
1620
1600

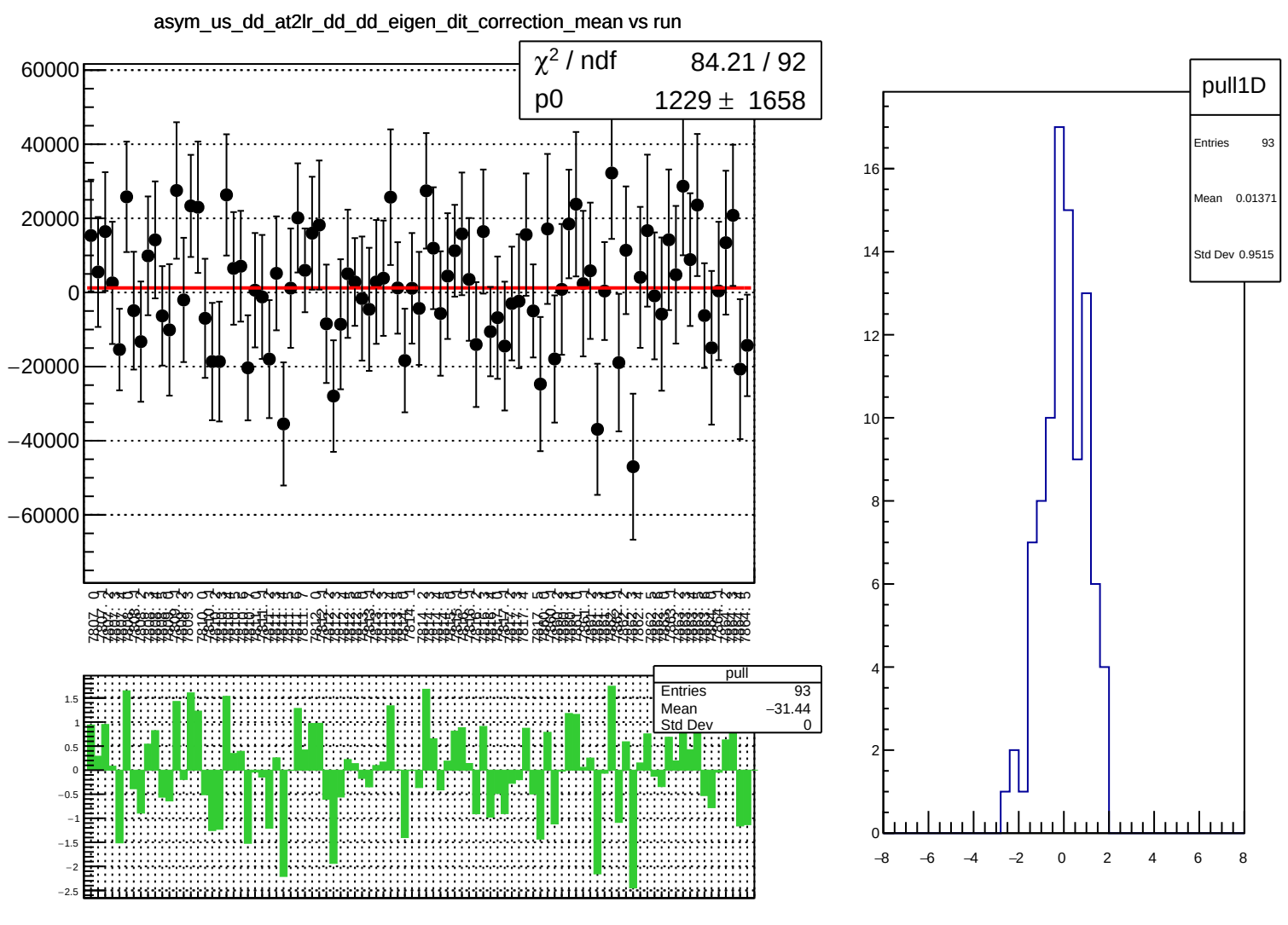

asym_us_dd_at2lr_dd_dd_dit_correction_mean vs run
χ² / ndf 84.21 / 92
p0 1229 ± 1658
pull
Entries 93
Mean −31.44
Std Dev 0
pull1D
Entries 93
Mean 0.01371
Std Dev 0.9515

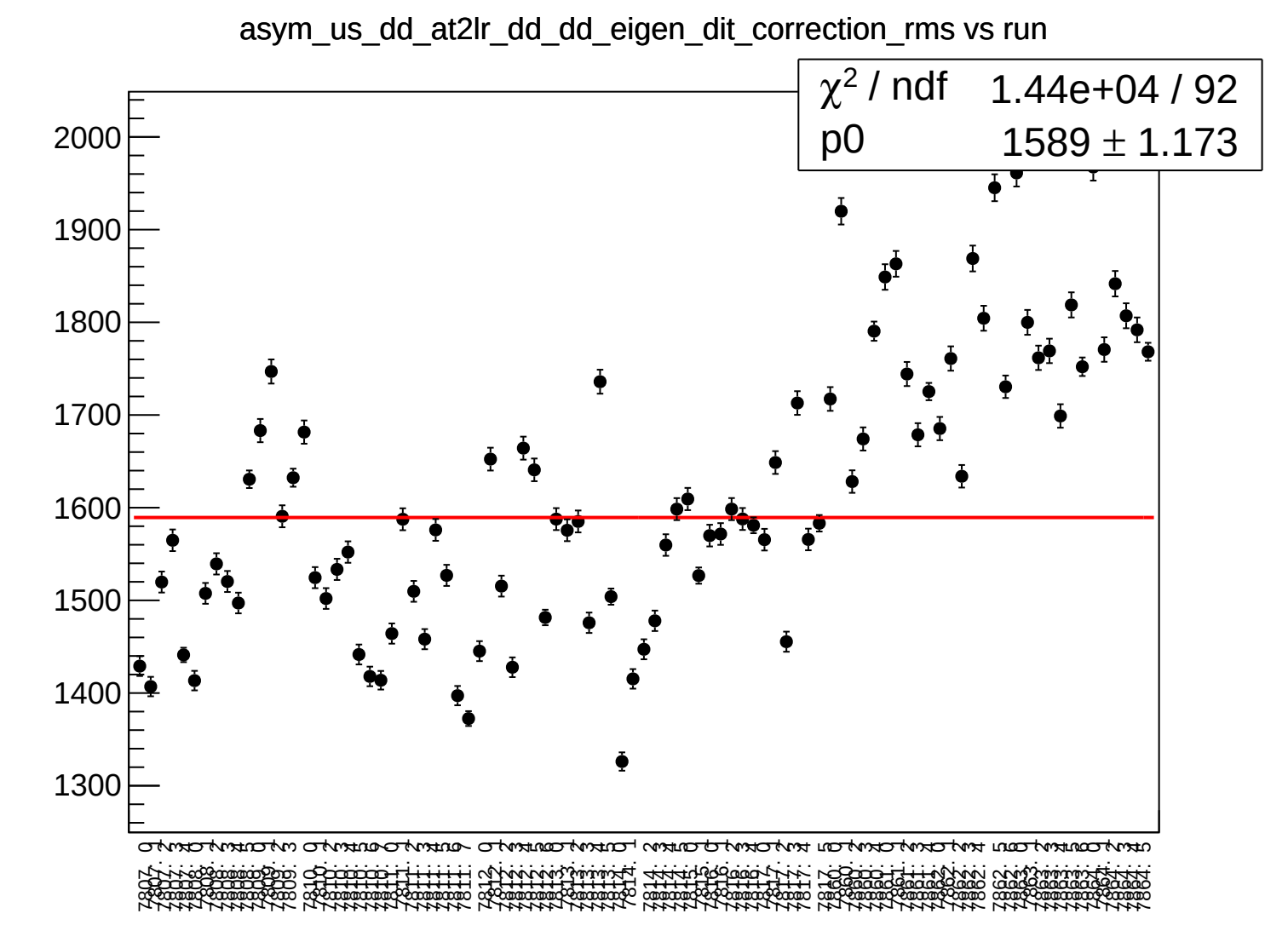

asym_us_dd_at2lr_dd_dd_dit_correction_rms vs run
χ² / ndf 1.44e+04 / 92
p0 1589 ± 1.173
2000
1900
1800
1700
1600
1500
1400
1300

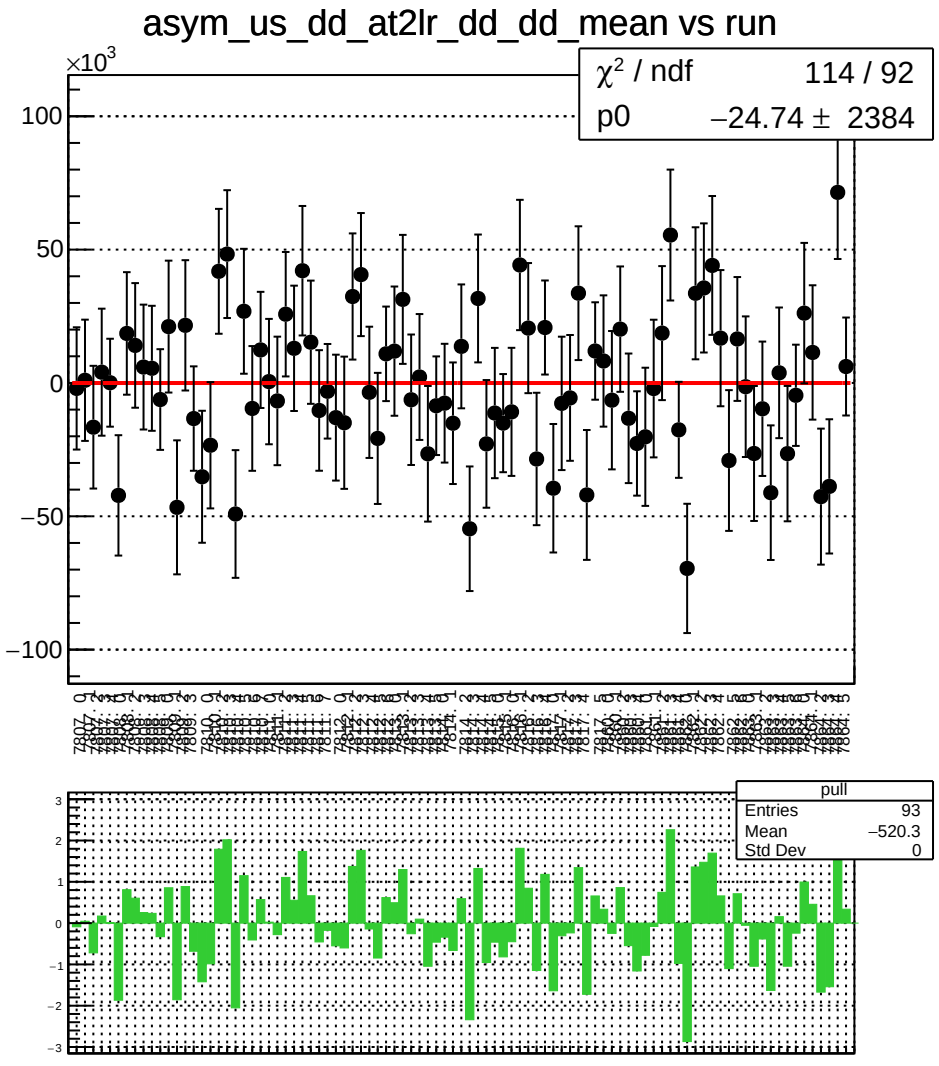

eigen_dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 109.5 / 92
p0 1203 ± 1731
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −84.56
Std Dev 0
3
2
1
0
−1
−2

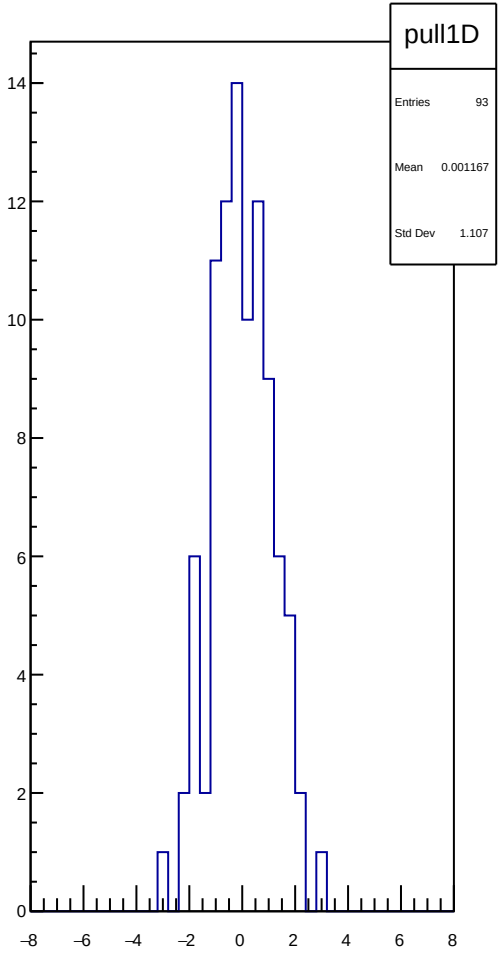

pull1D
Entries 93
Mean 0.01483
Std Dev 1.085
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

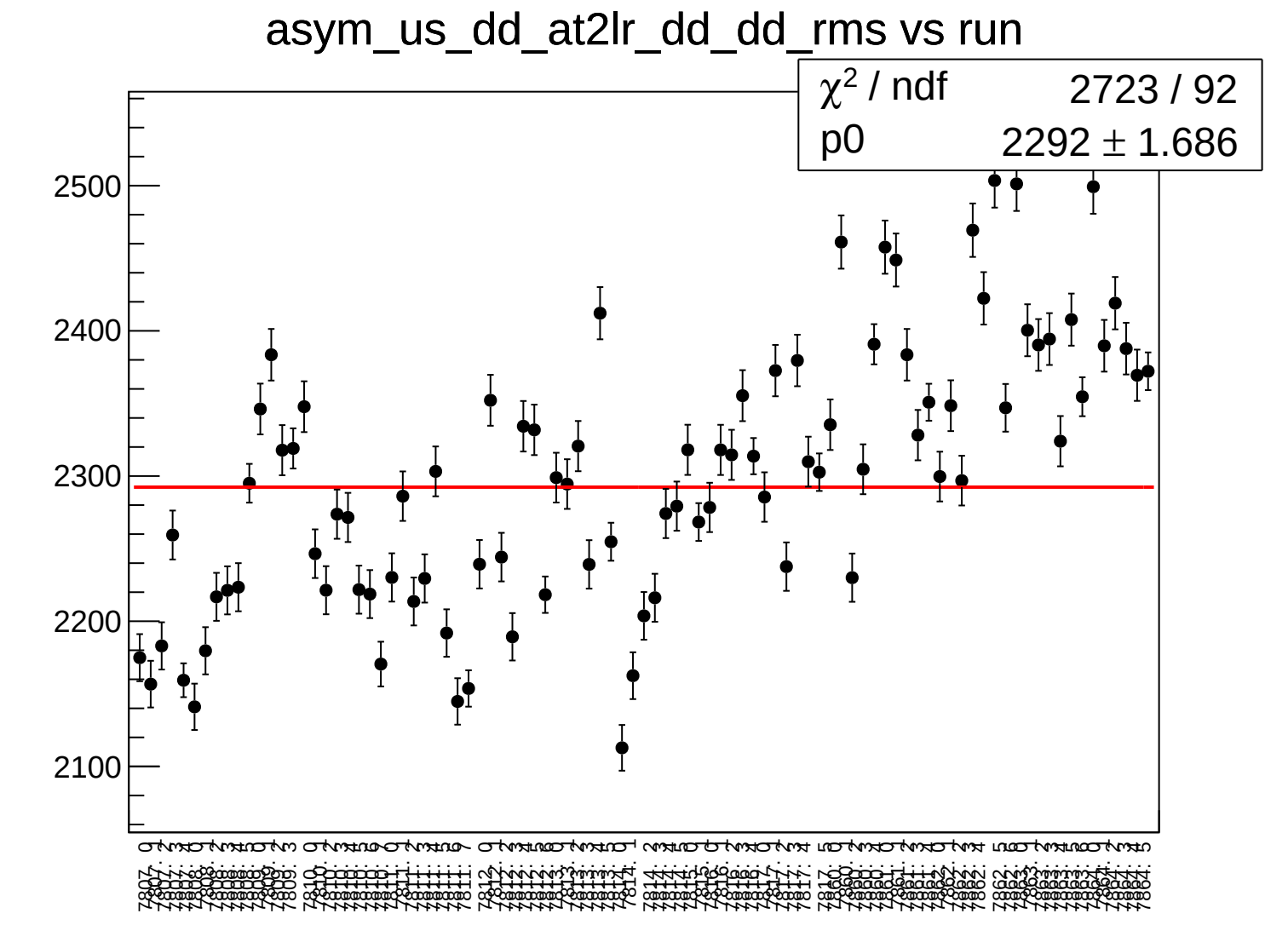

eigen_dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 134.1 / 92
p0 1665 ± 1.224
1700
1680
1660
1640
1620
1600

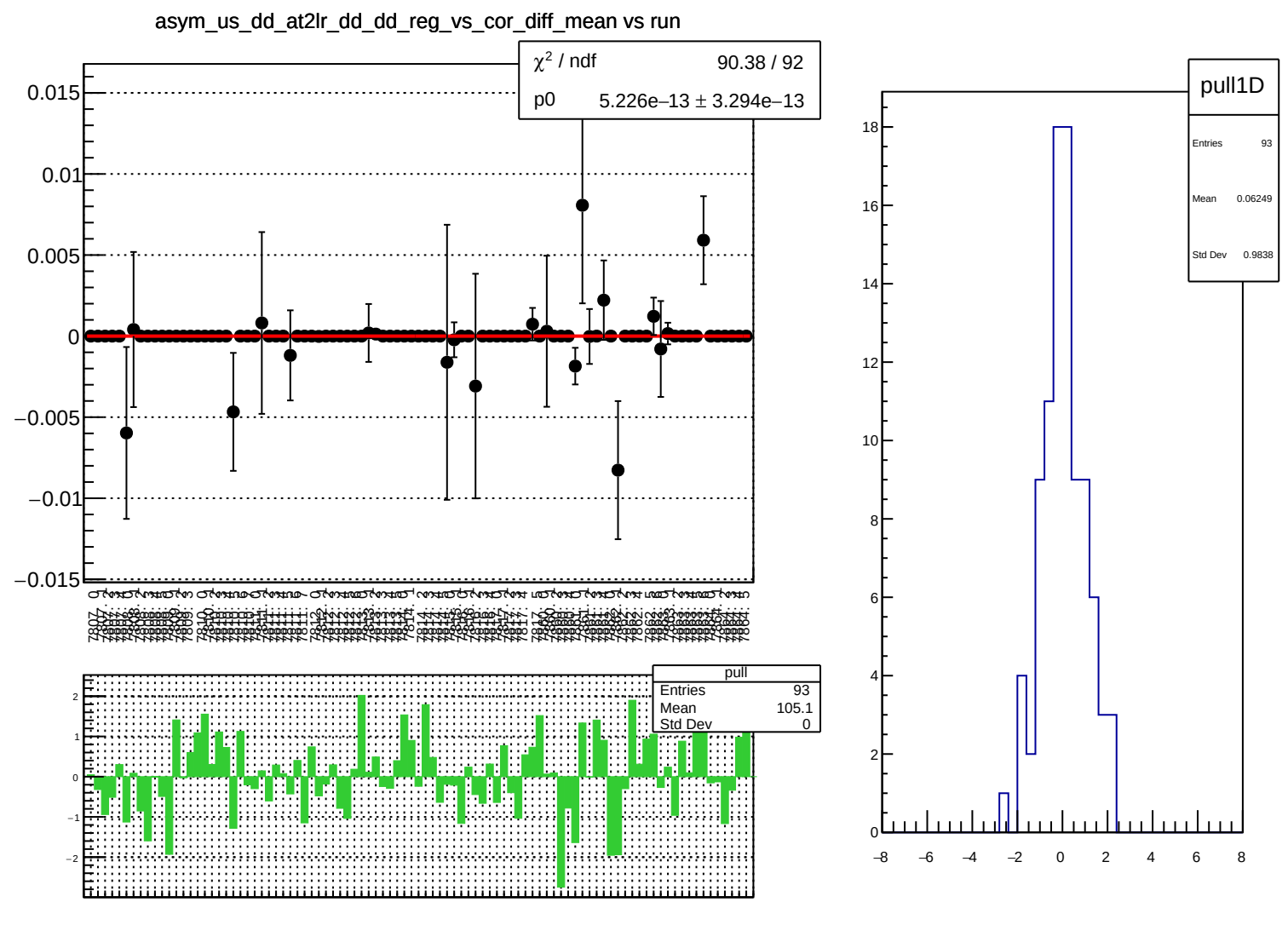

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 84.21 / 92
p0 1229 ± 1658
pull
Entries 93
Mean −31.44
Std Dev 0
pull1D
Entries 93
Mean 0.01371
Std Dev 0.9515

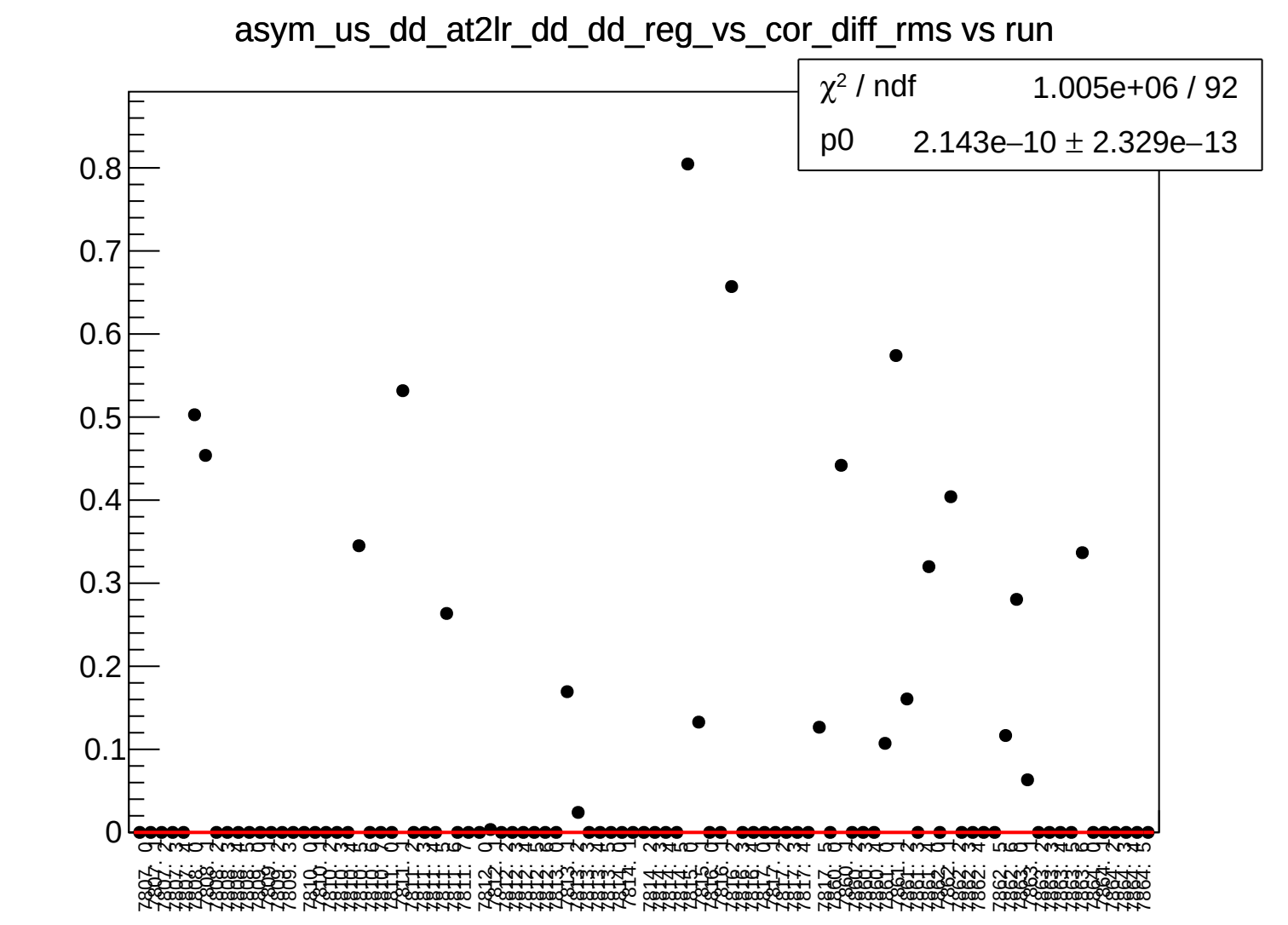

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.44e+04 / 92
p0 1589 ± 1.173
2000
1900
1800
1700
1600
1500
1400
1300

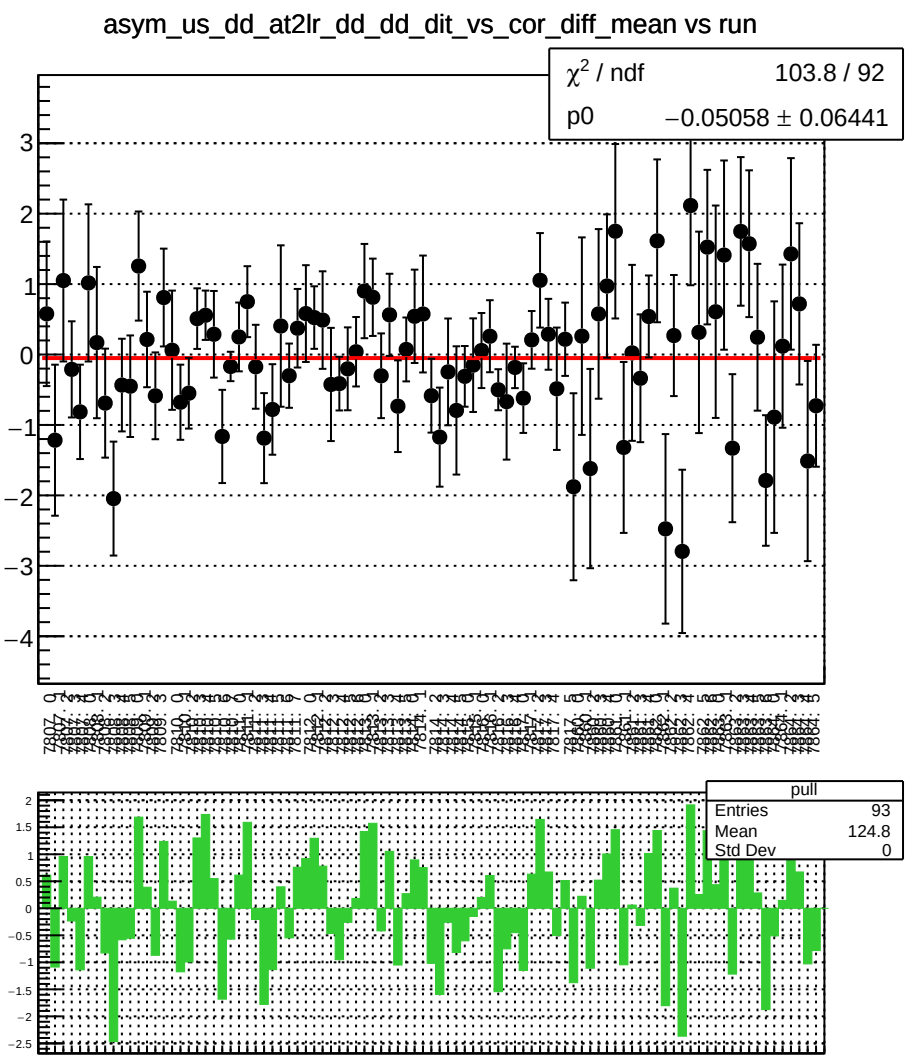

asym_us_dd_at2lr_dd_dd_mean vs run
×10^3
χ² / ndf 114 / 92
p0 −24.74 ± 2384
100
50
0
−50
−100
pull
Entries 93
Mean −520.3
Std Dev 0
3
2
1
0
−1
−2
−3

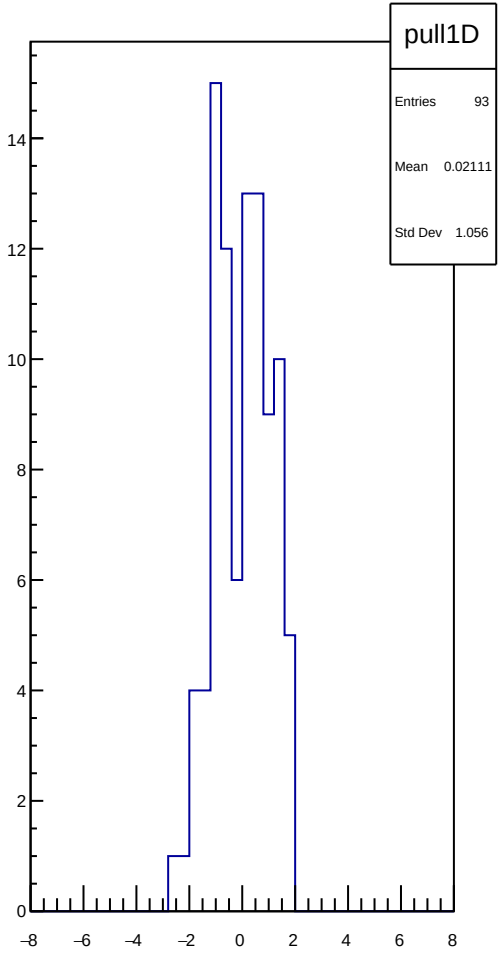

pull1D
Entries 93
Mean 0.001167
Std Dev 1.107
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

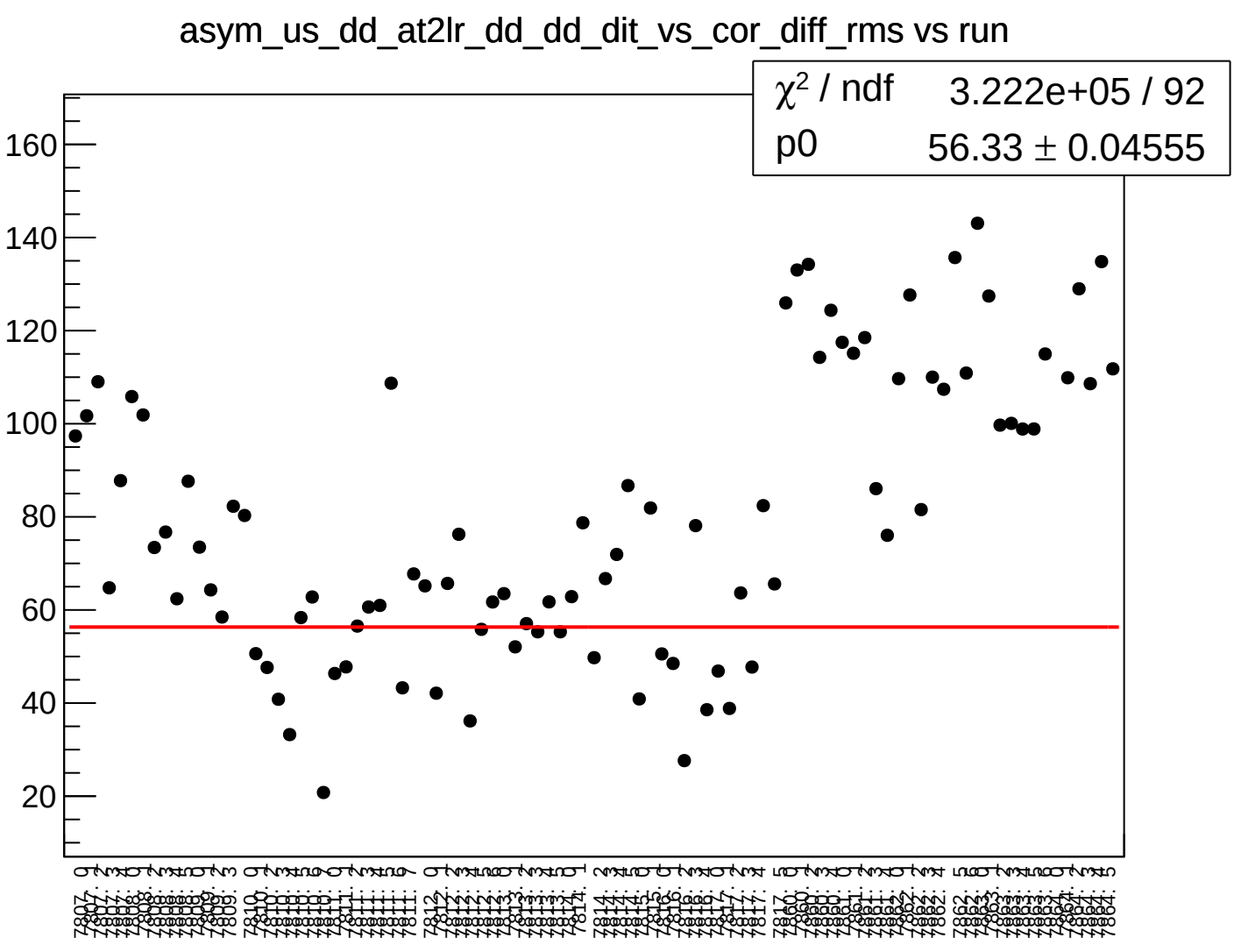

asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 2723 / 92
p0 2292 ± 1.686
2500
2400
2300
2200
2100

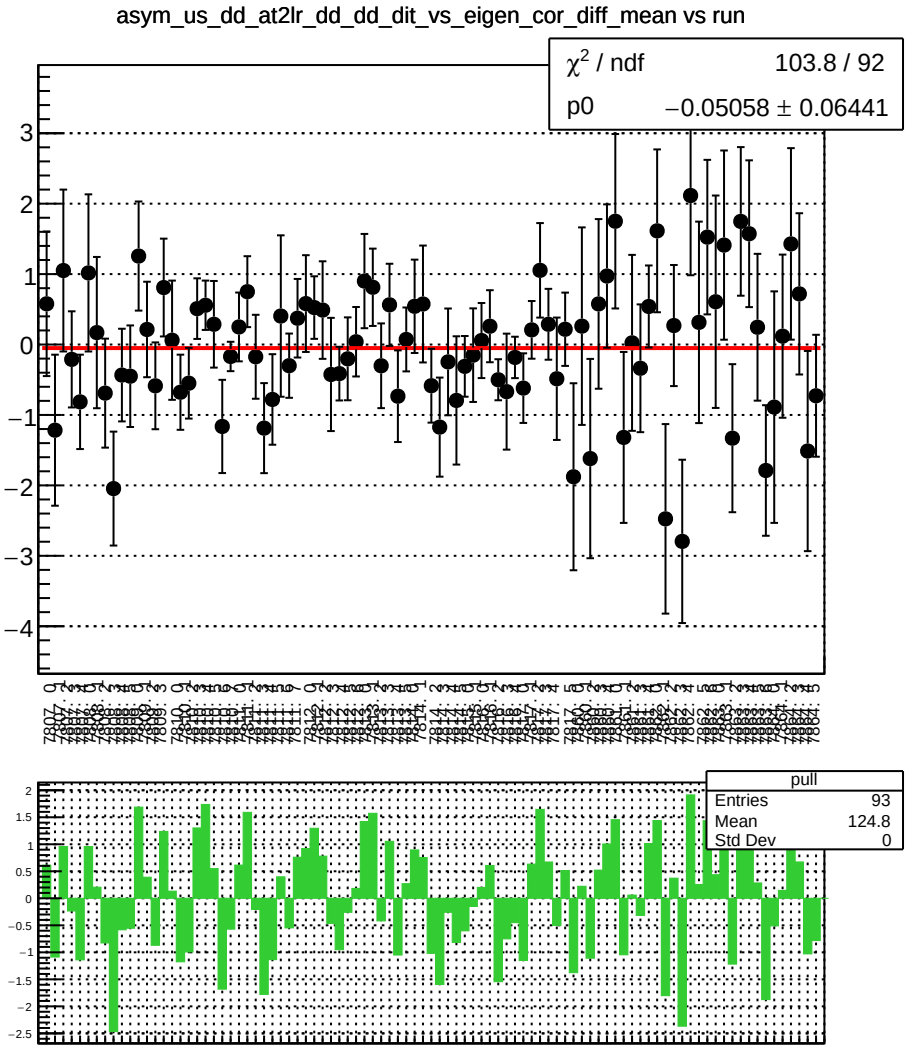

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 90.38 / 92
p0 5.226e−13 ± 3.294e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 93
Mean 105.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.06249
Std Dev 0.9838
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

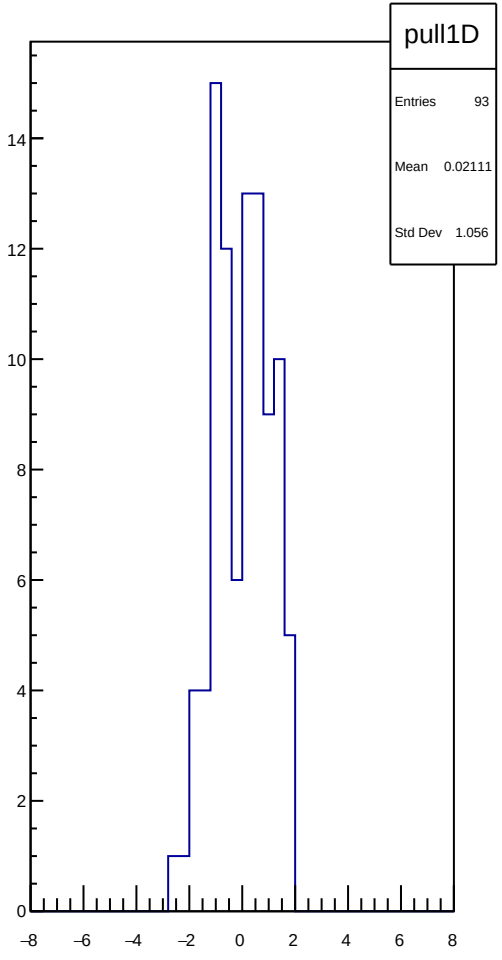

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.005e+06 / 92
p0 2.143e−10 ± 2.329e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

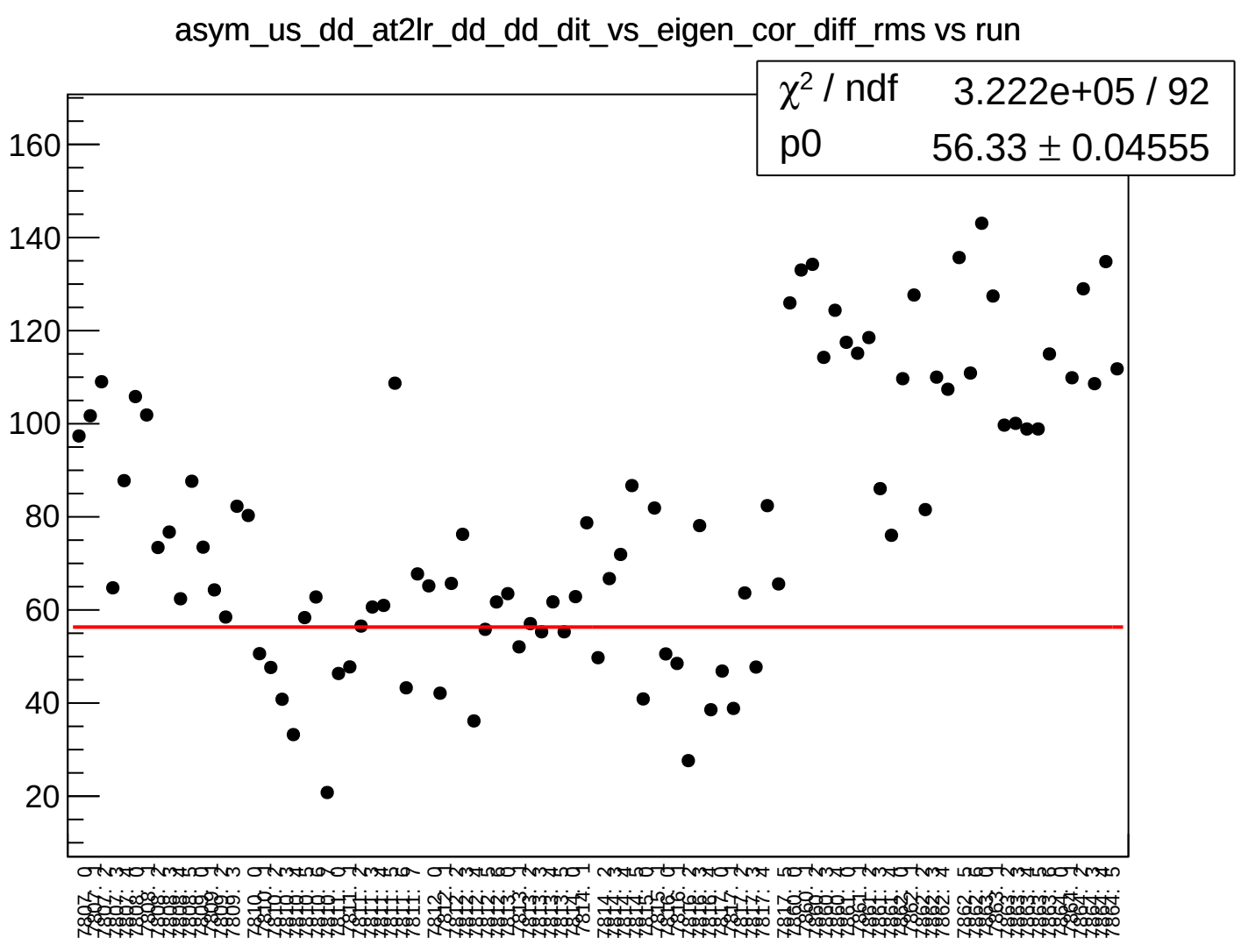

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 103.8 / 92
p0 −0.05058 ± 0.06441
pull
Entries 93
Mean 124.8
Std Dev 0

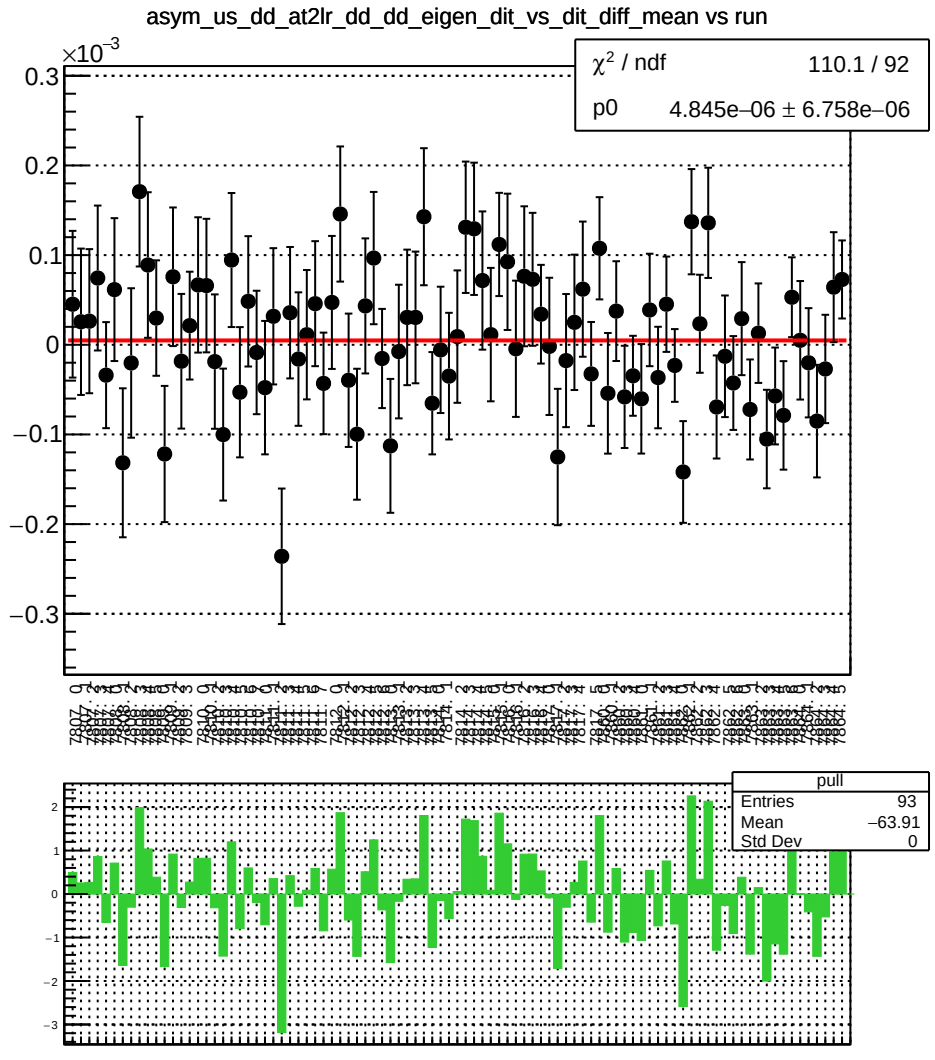

pull1D
Entries 93
Mean 0.02111
Std Dev 1.056

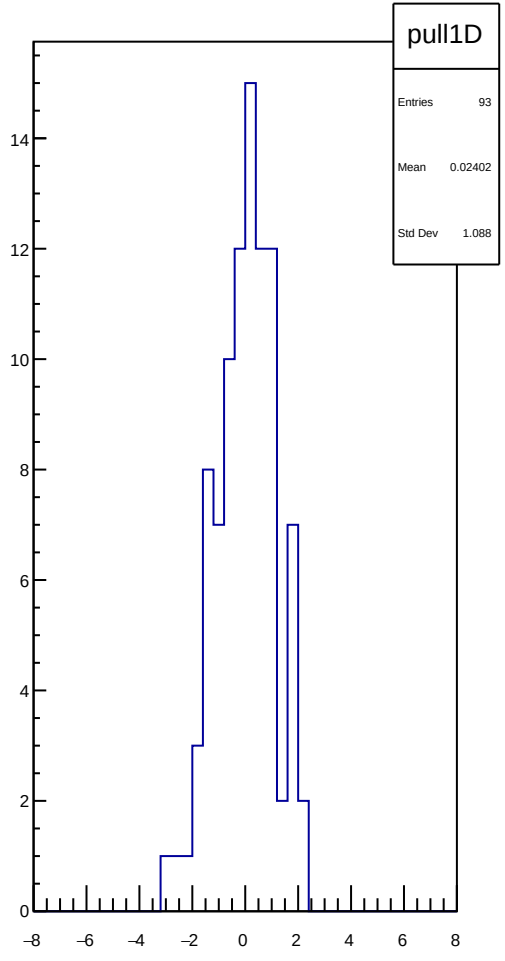

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.222e+05 / 92
p0 56.33 ± 0.04555
160
140
120
100
80
60
40
20

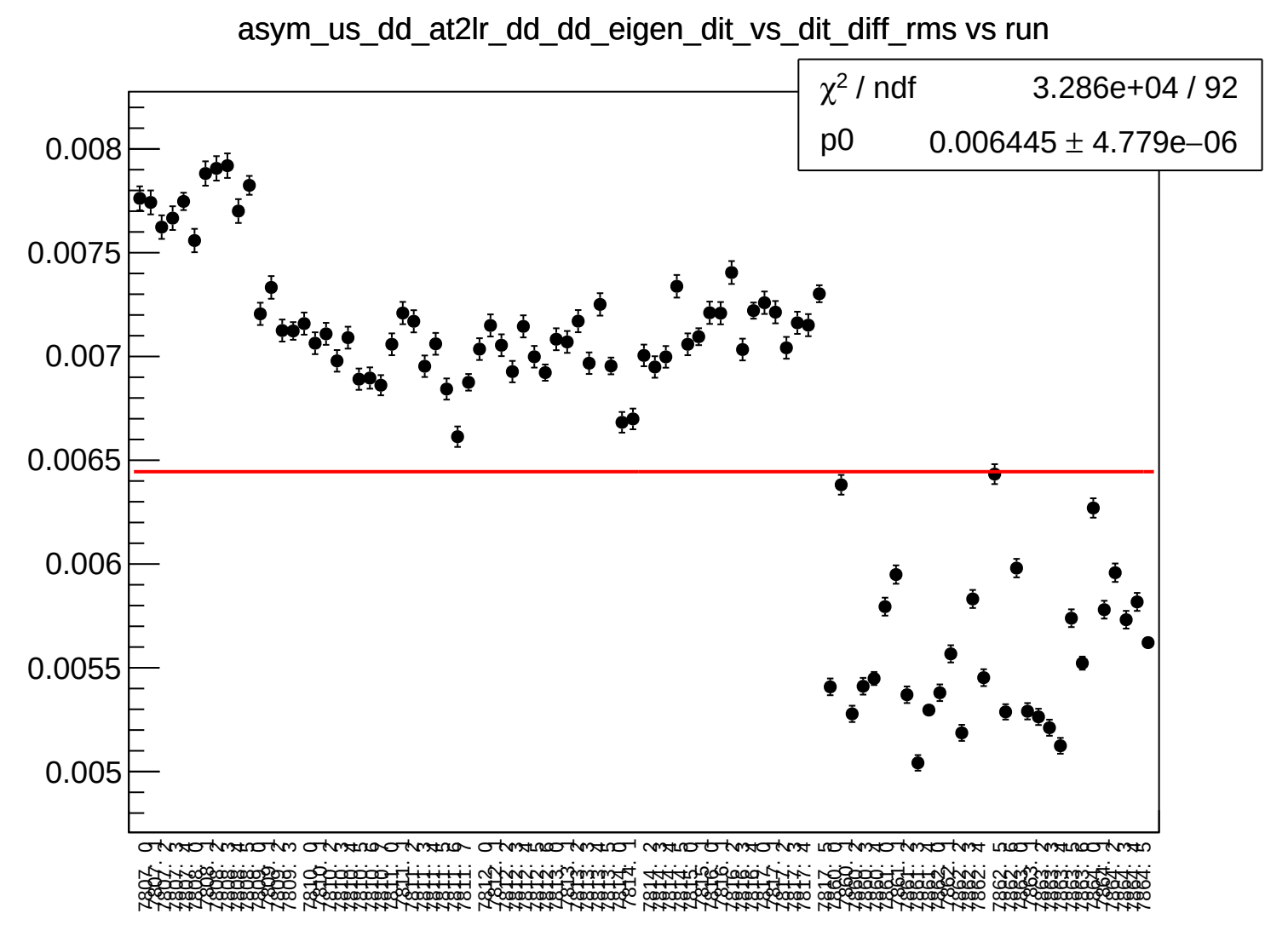

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.8 / 92
p0 −0.05058 ± 0.06441
pull
Entries 93
Mean 124.8
Std Dev 0

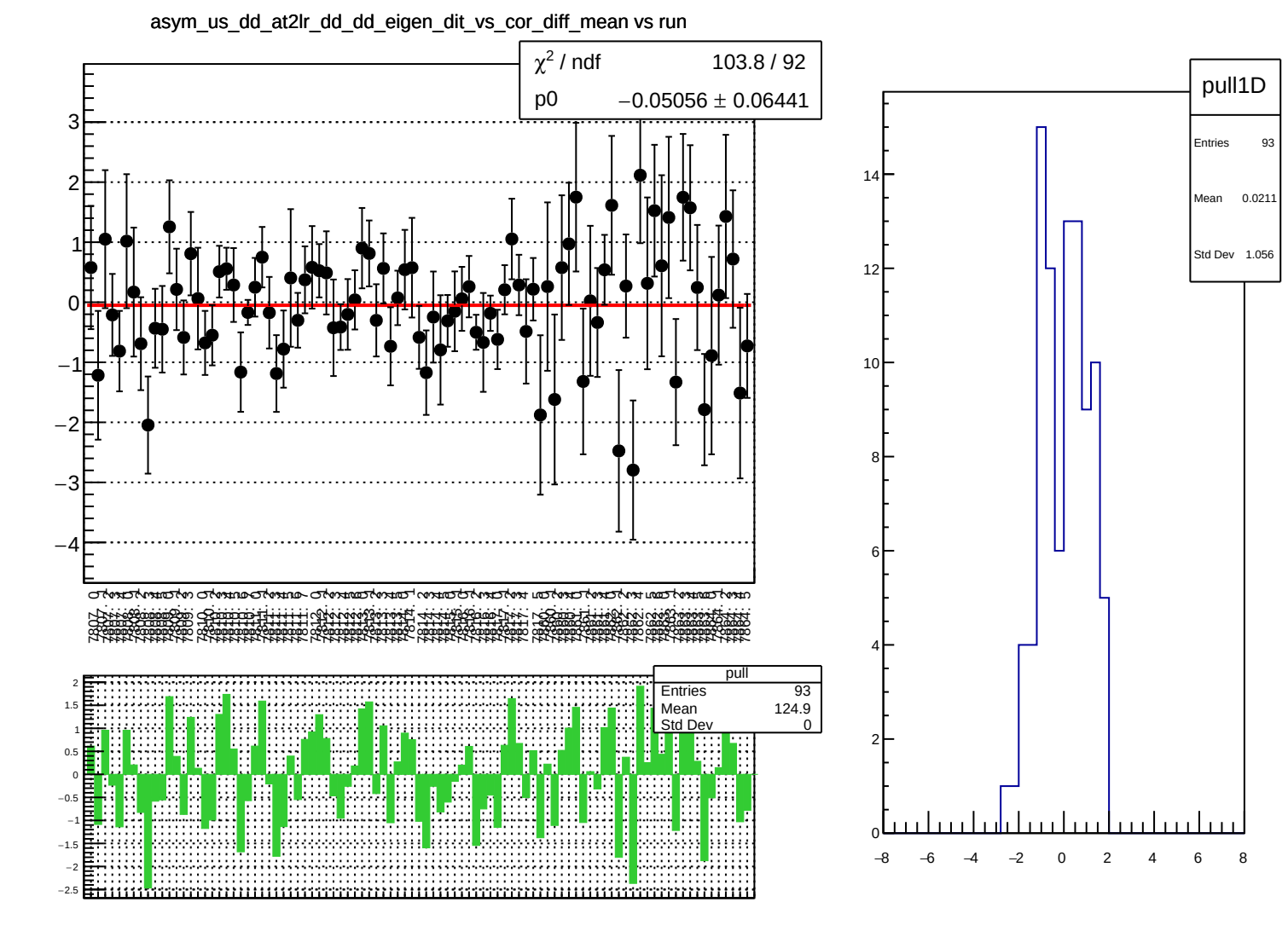

pull1D
Entries 93
Mean 0.02111
Std Dev 1.056

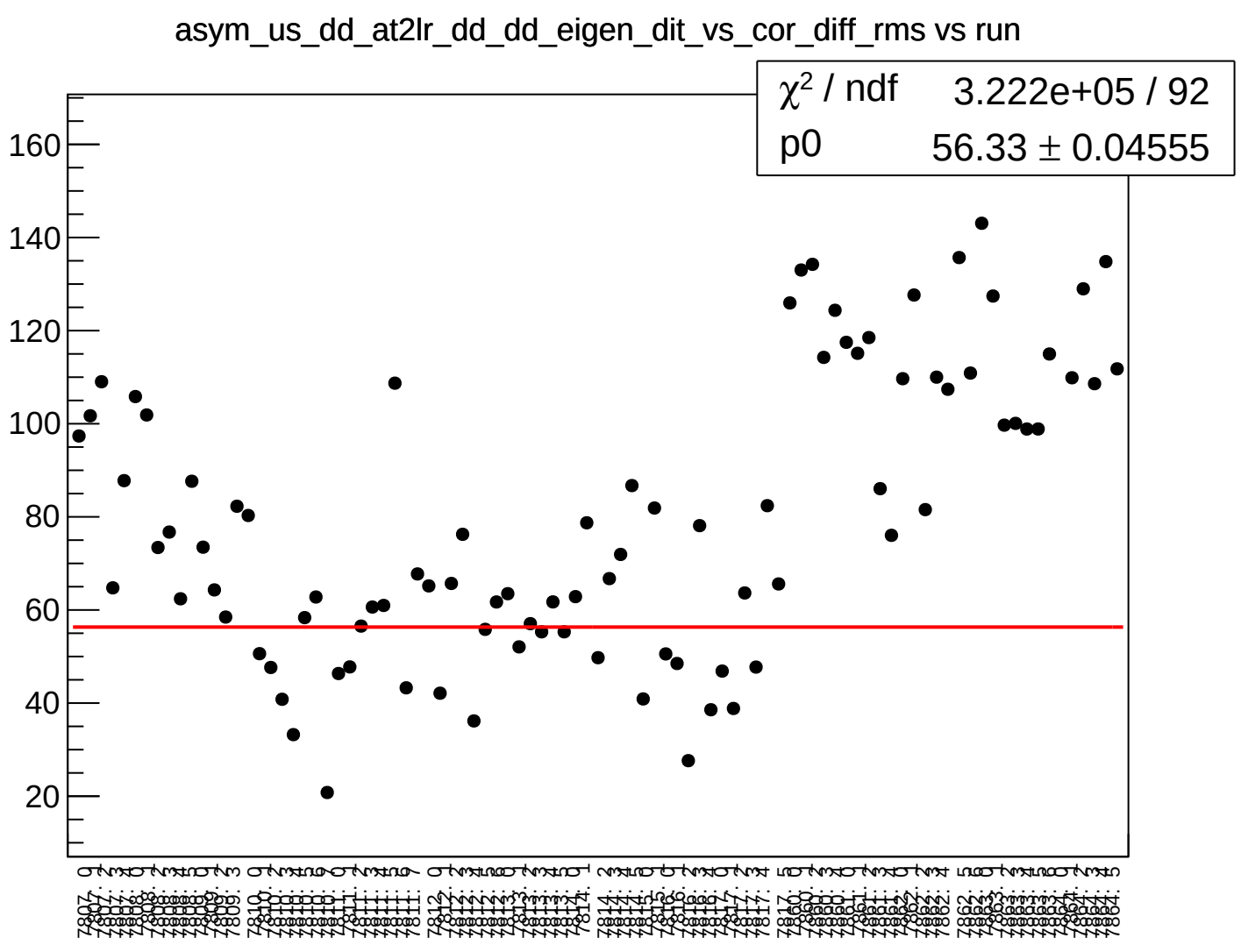

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.222e+05 / 92
p0 56.33 ± 0.04555
160
140
120
100
80
60
40
20

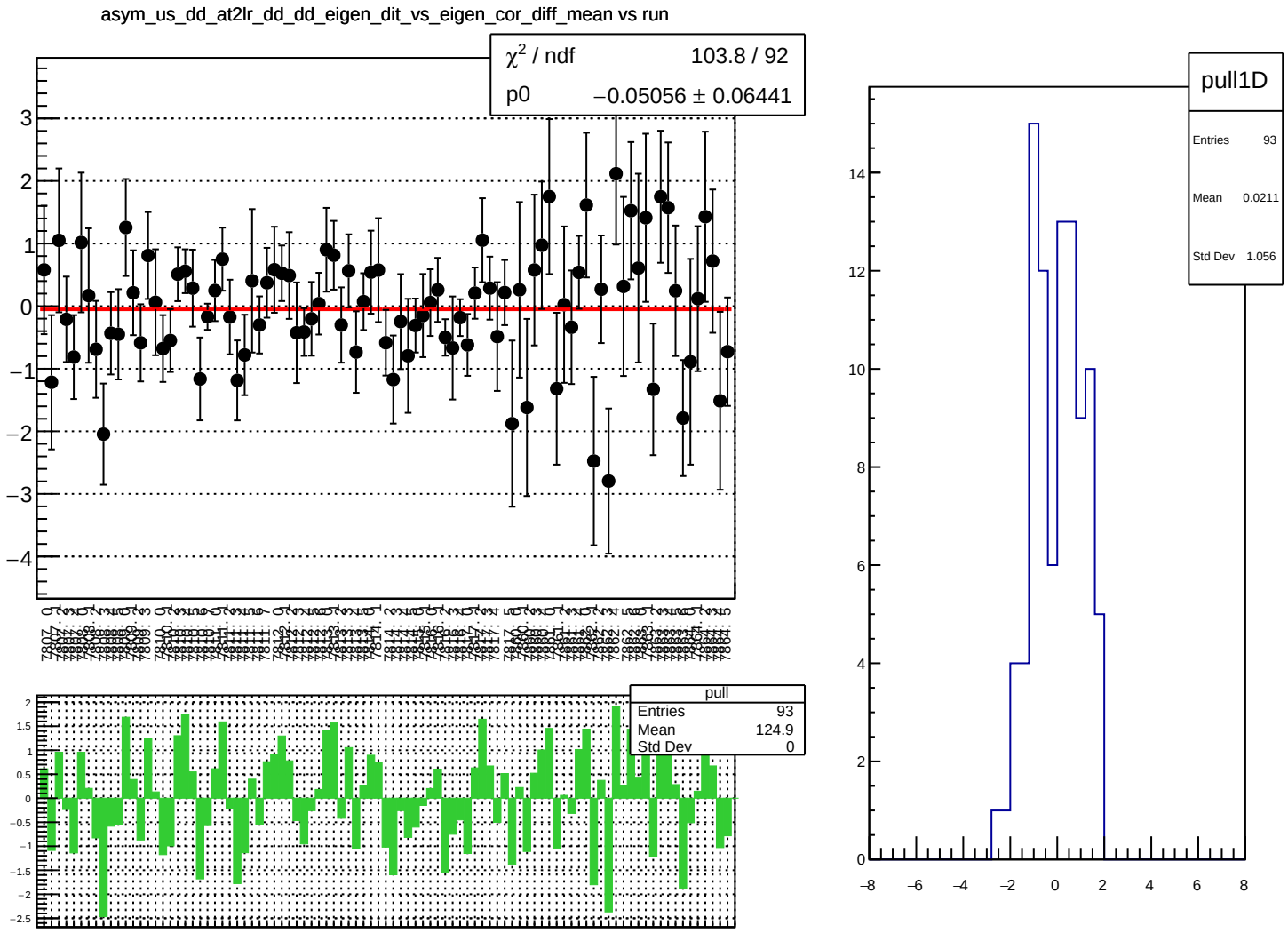

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 110.1 / 92
p0 4.845e−06 ± 6.758e−06
pull
Entries 93
Mean −63.91
Std Dev 0

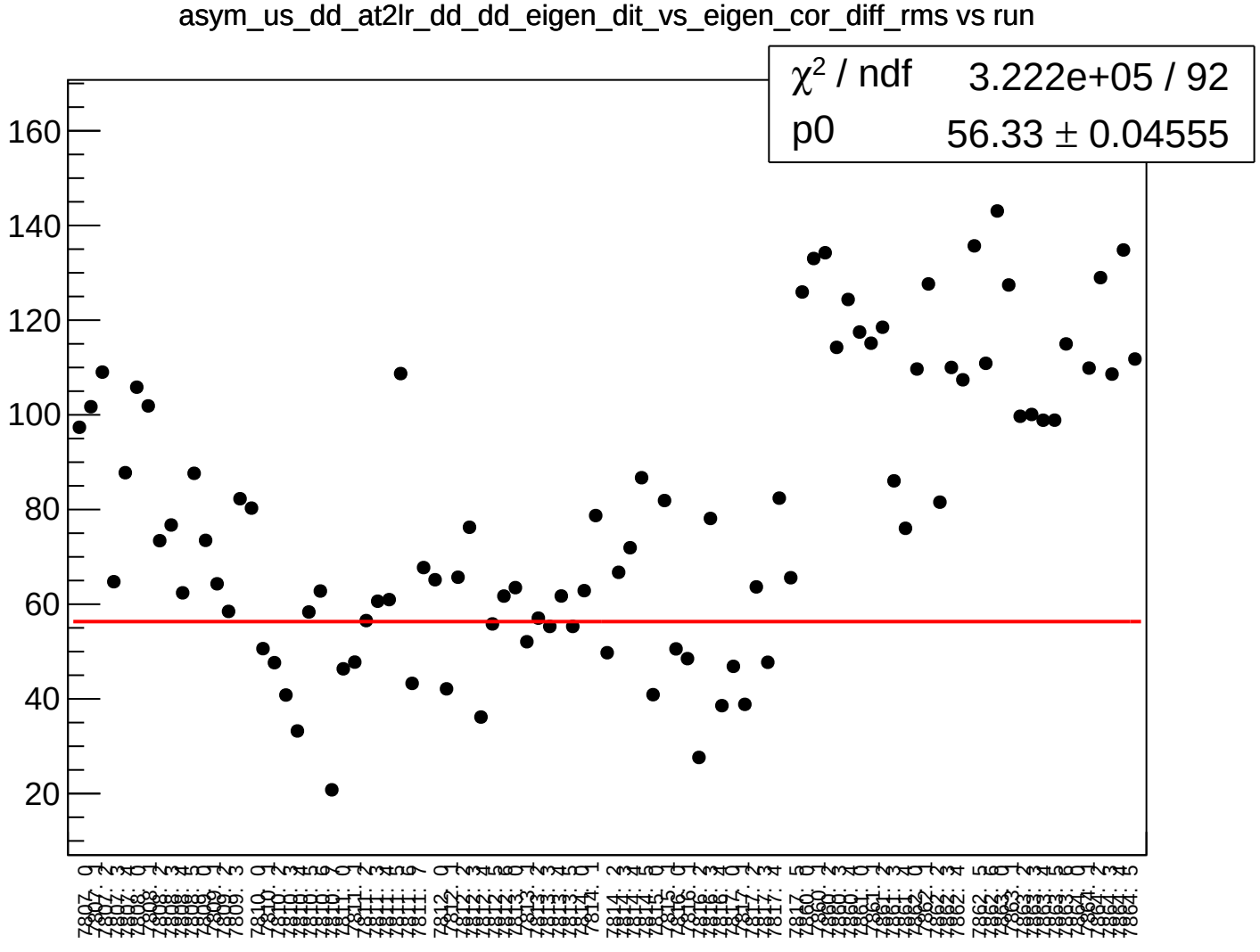

pull1D
Entries 93
Mean 0.02402
Std Dev 1.088

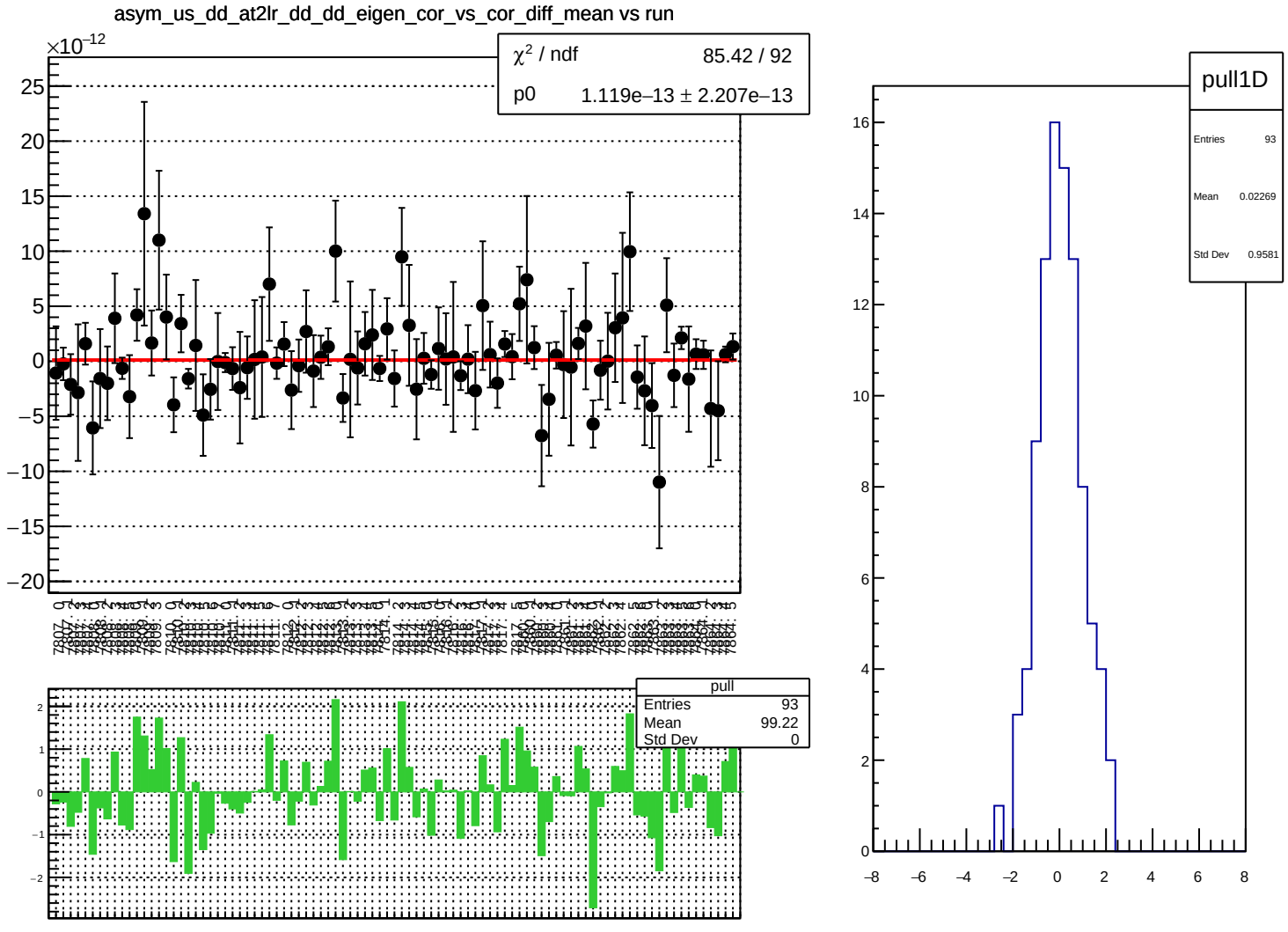

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.286e+04 / 92
p0 0.006445 ± 4.779e−06
0.008
0.0075
0.007
0.0065
0.006
0.0055
0.005

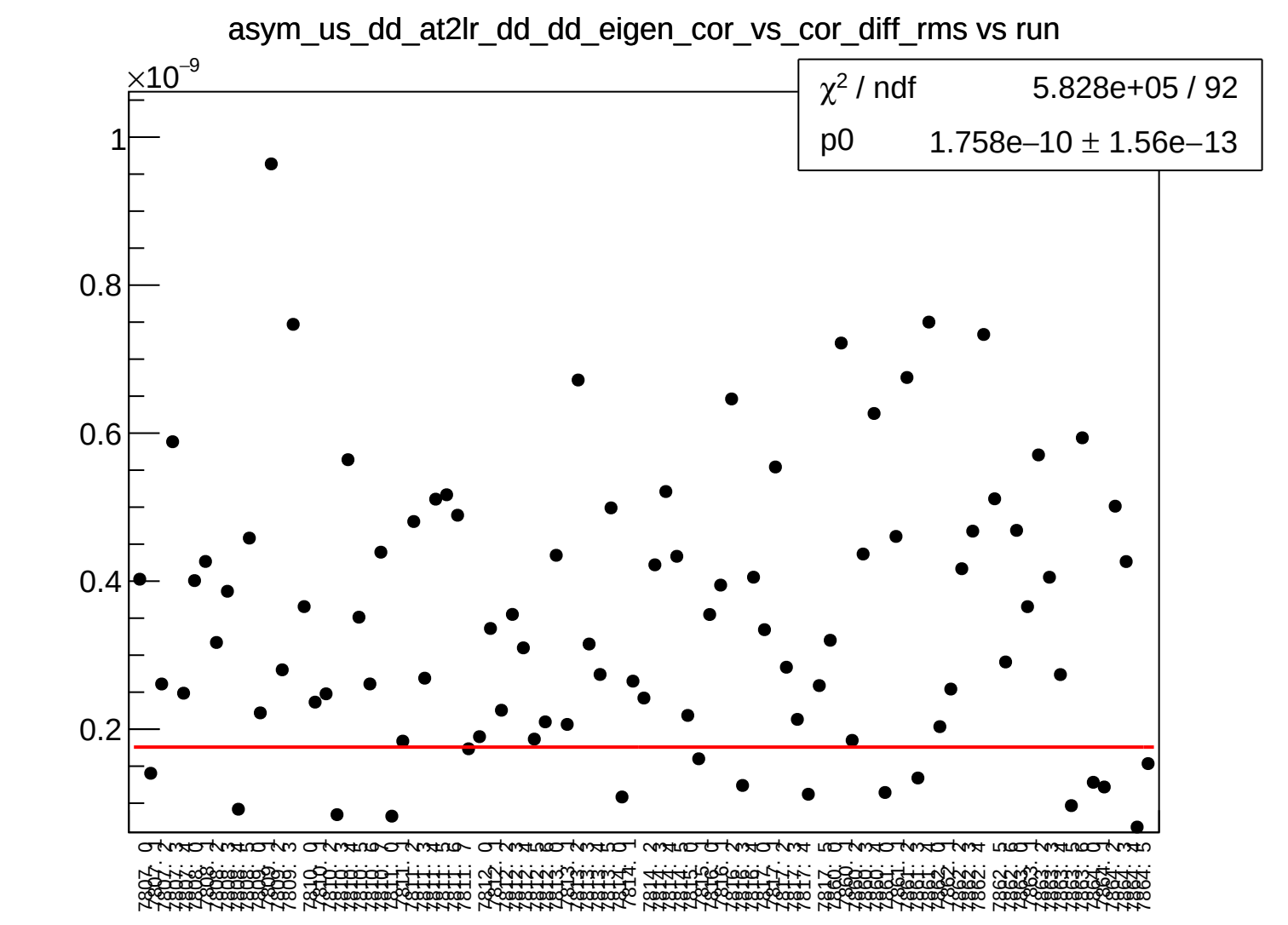

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 103.8 / 92
p0 −0.05056 ± 0.06441
pull
Entries 93
Mean 124.9
Std Dev 0
pull1D
Entries 93
Mean 0.0211
Std Dev 1.056

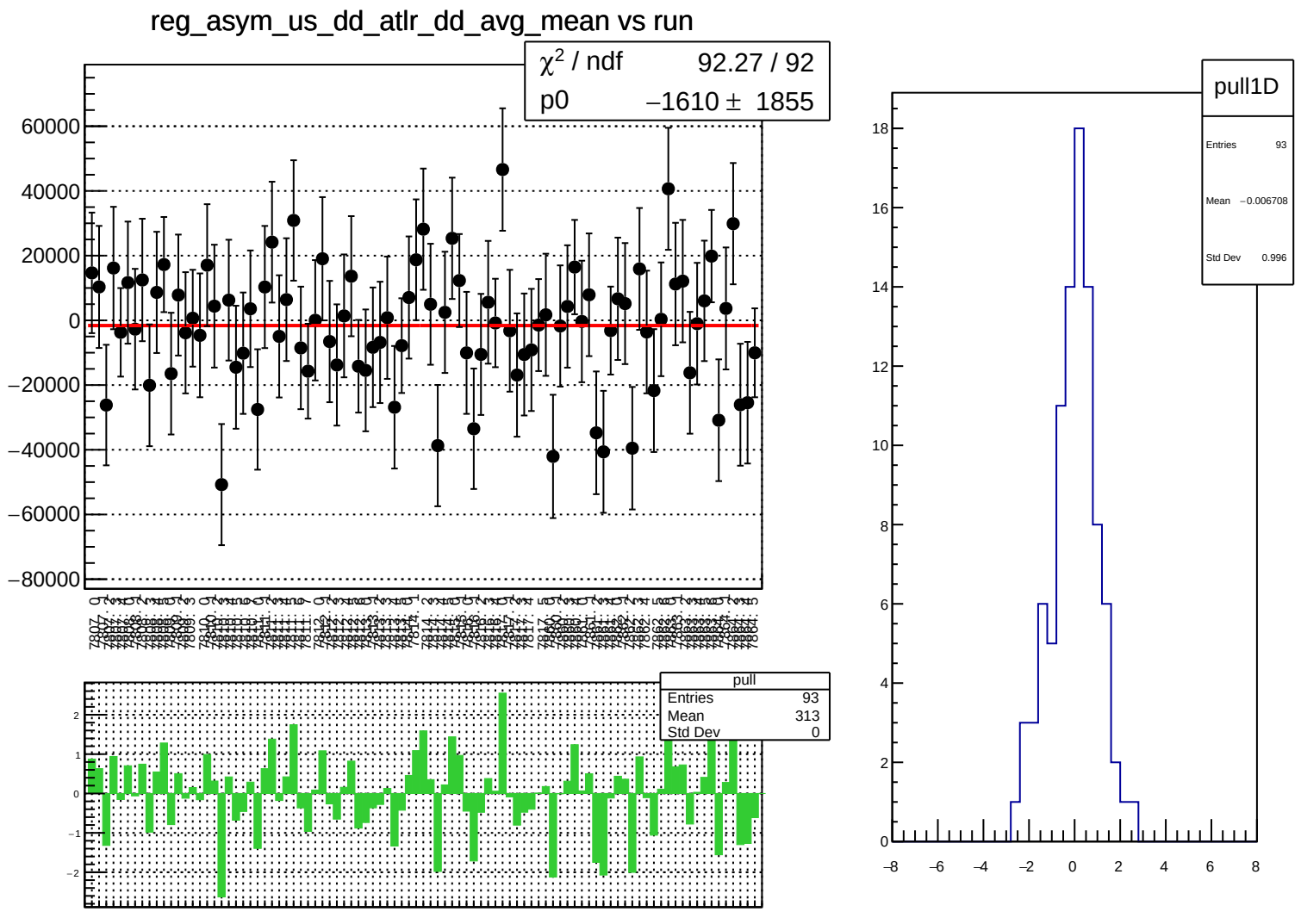

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.222e+05 / 92
p0 56.33 ± 0.04555
160
140
120
100
80
60
40
20

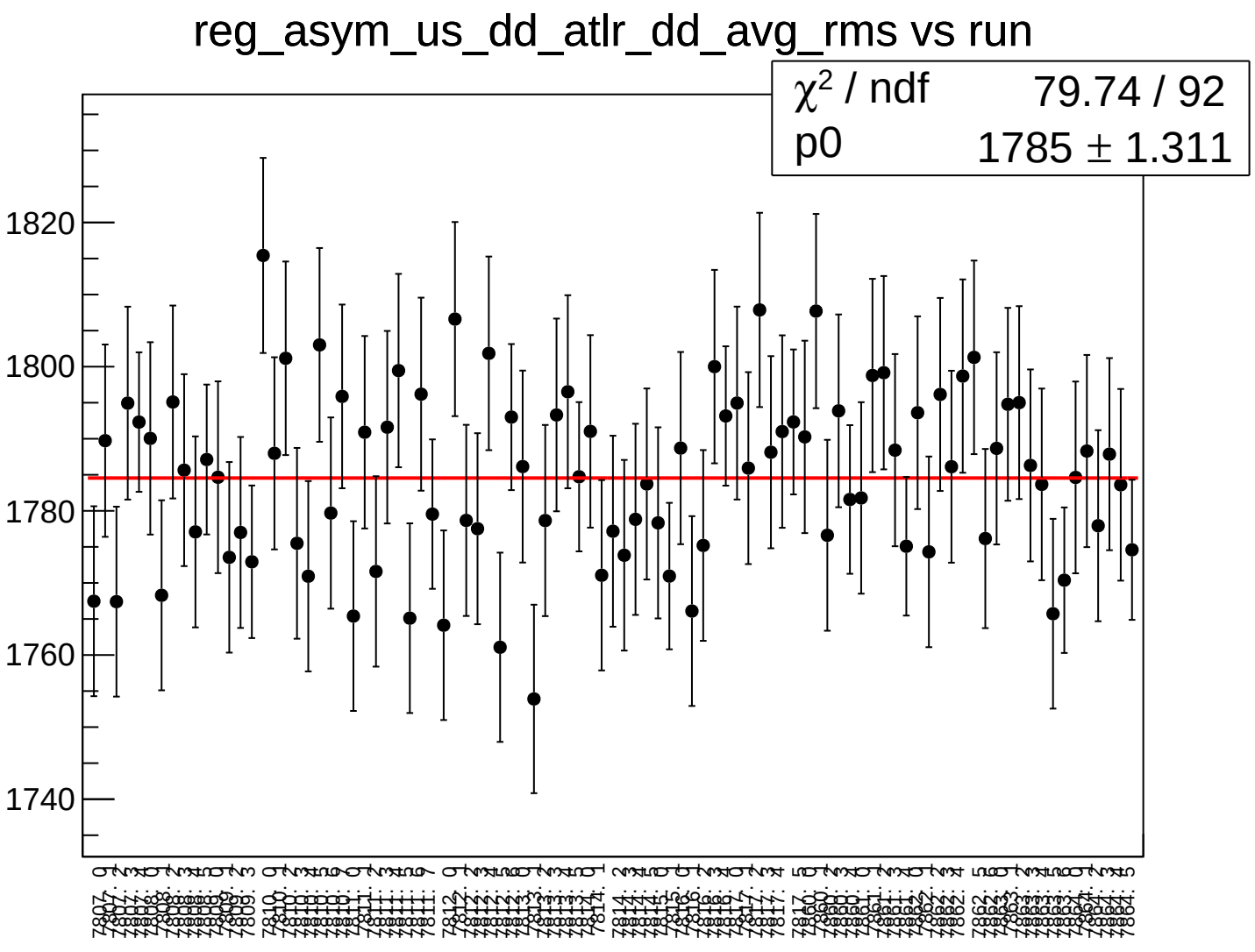

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.8 / 92
p0 −0.05056 ± 0.06441
pull
Entries 93
Mean 124.9
Std Dev 0
pull1D
Entries 93
Mean 0.0211
Std Dev 1.056

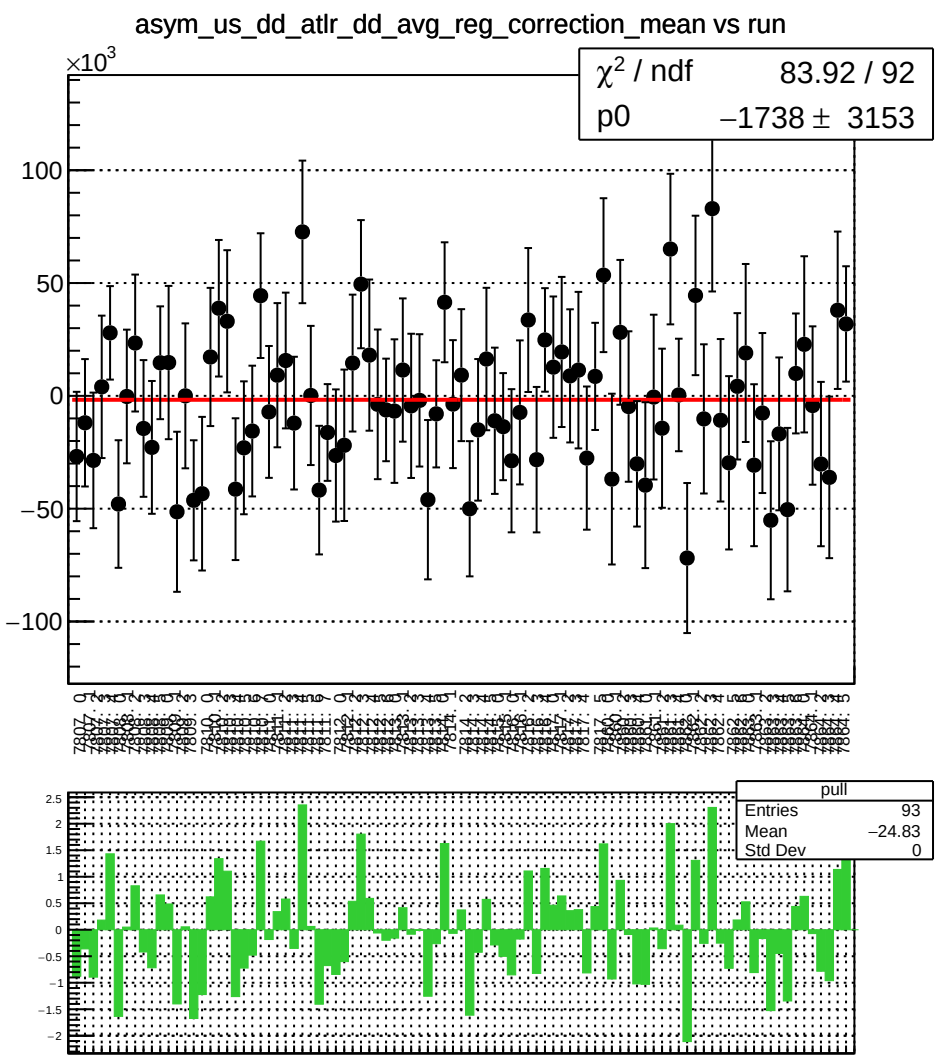

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.222e+05 / 92
p0 56.33 ± 0.04555
160
140
120
100
80
60
40
20

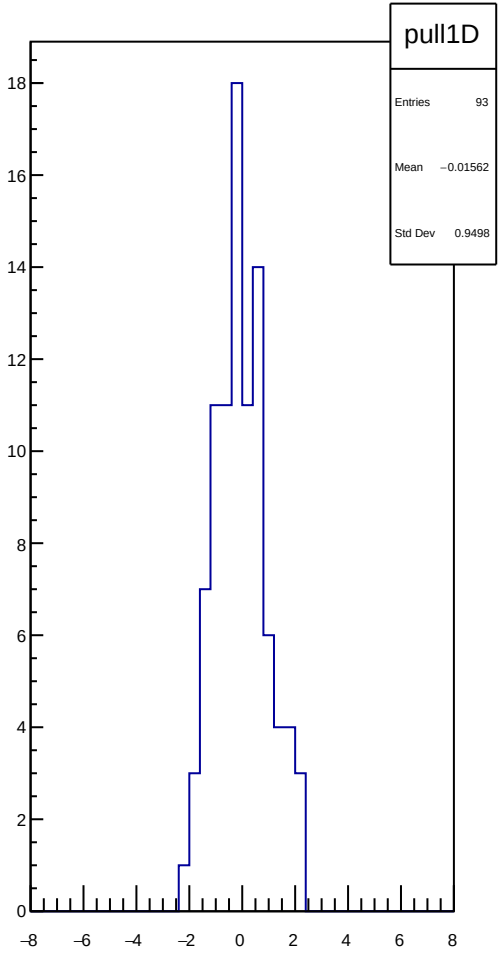

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.42 / 92
p0 1.119e−13 ± 2.207e−13
pull
Entries 93
Mean 99.22
Std Dev 0
pull1D
Entries 93
Mean 0.02269
Std Dev 0.9581

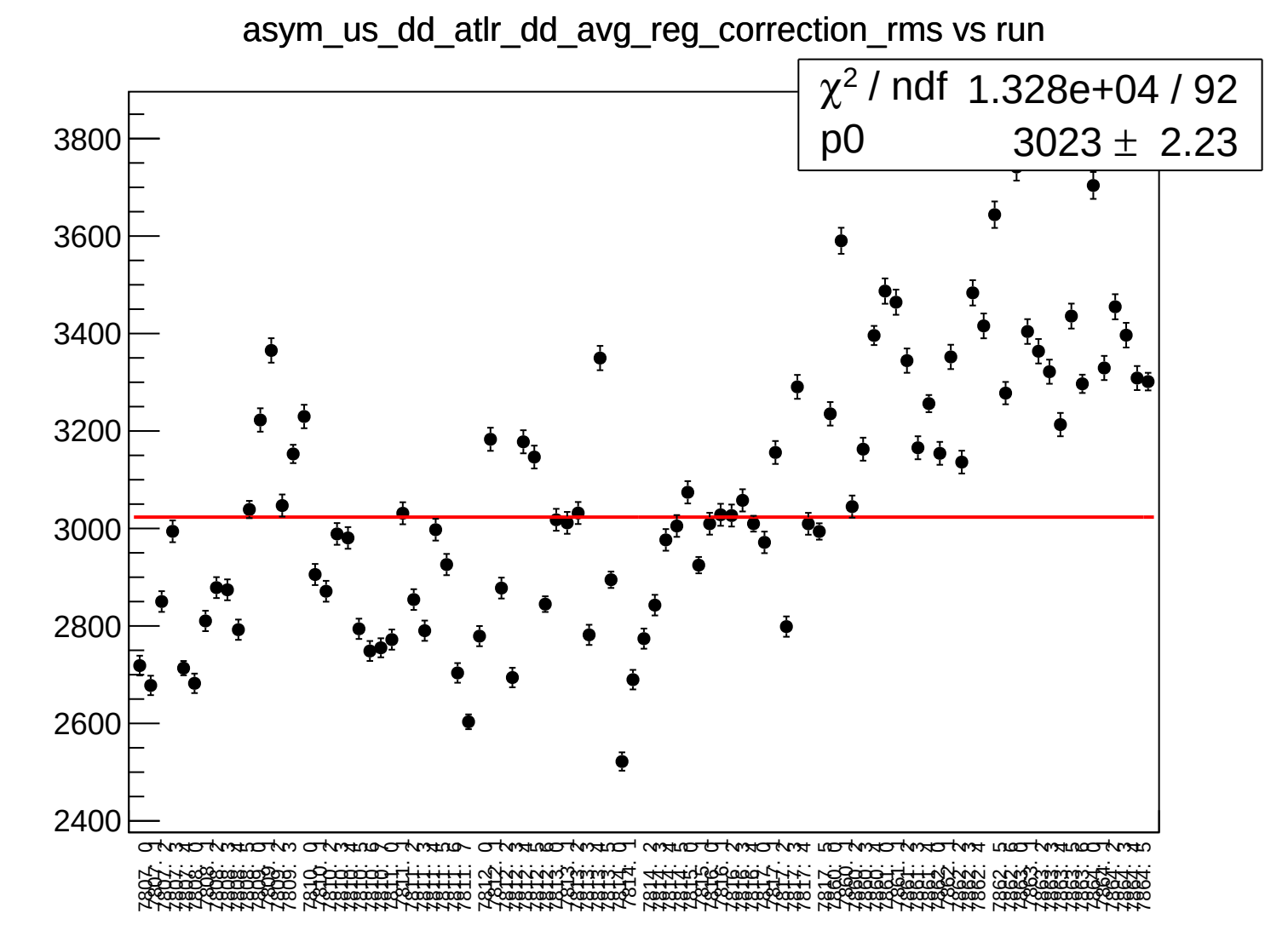

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.828e+05 / 92
p0 1.758e−10 ± 1.56e−13
1
0.8
0.6
0.4
0.2

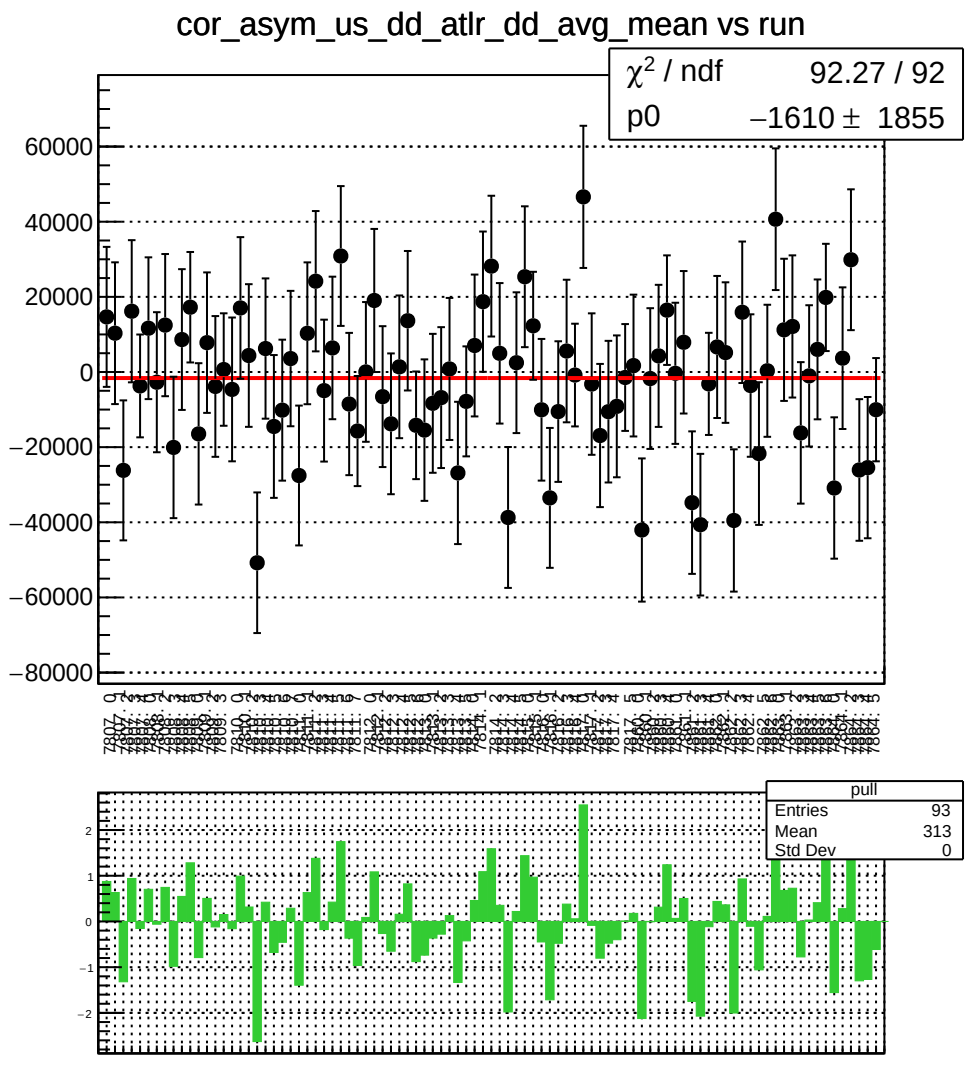

reg_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 92.27 / 92
p0 −1610 ± 1855
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean 313
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.006708
Std Dev 0.996
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

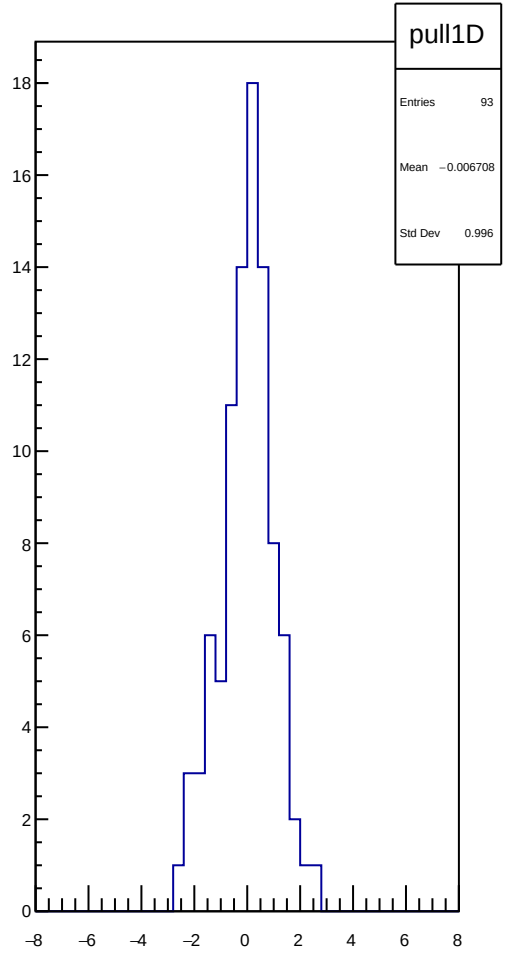

reg_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 79.74 / 92
p0 1785 ± 1.311
1820
1800
1780
1760
1740

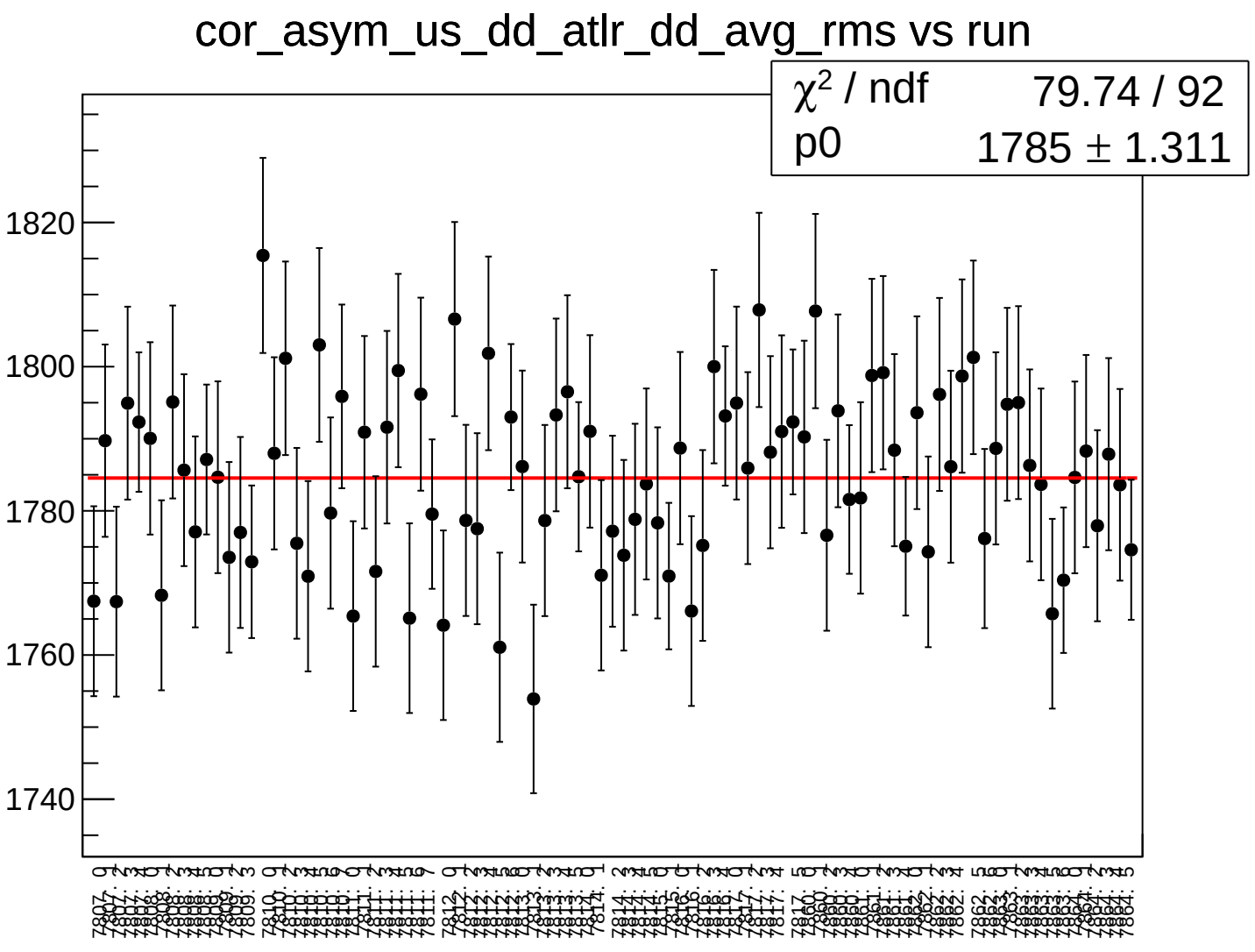

asym_us_dd_atlr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 83.92 / 92
p0 −1738 ± 3153
100
50
0
−50
−100
pull
Entries 93
Mean −24.83
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

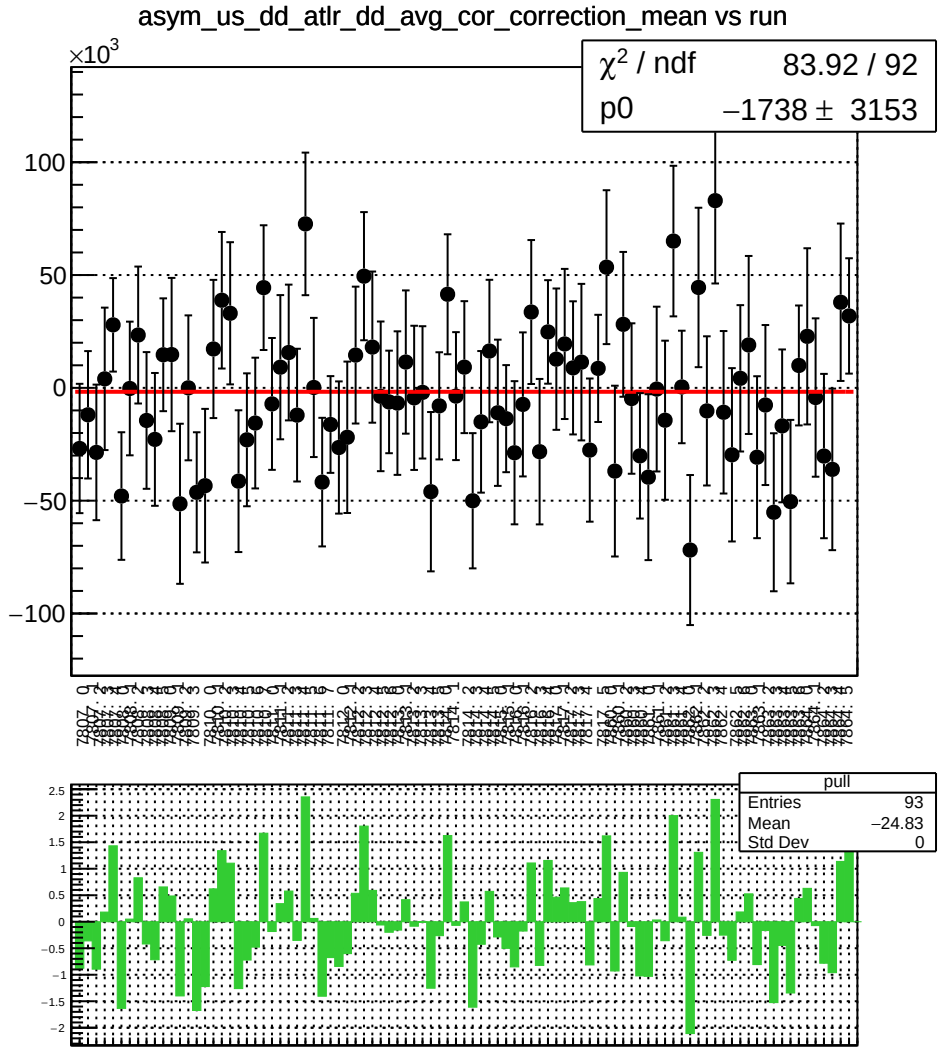

pull1D
Entries 93
Mean −0.01562
Std Dev 0.9498
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

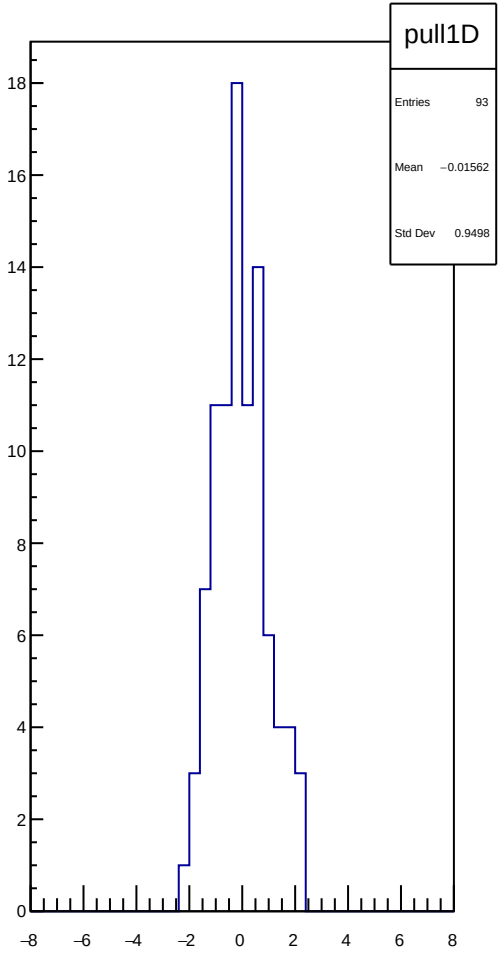

asym_us_dd_atlr_dd_avg_reg_correction_rms vs run
χ² / ndf 1.328e+04 / 92
p0 3023 ± 2.23
3800
3600
3400
3200
3000
2800
2600
2400

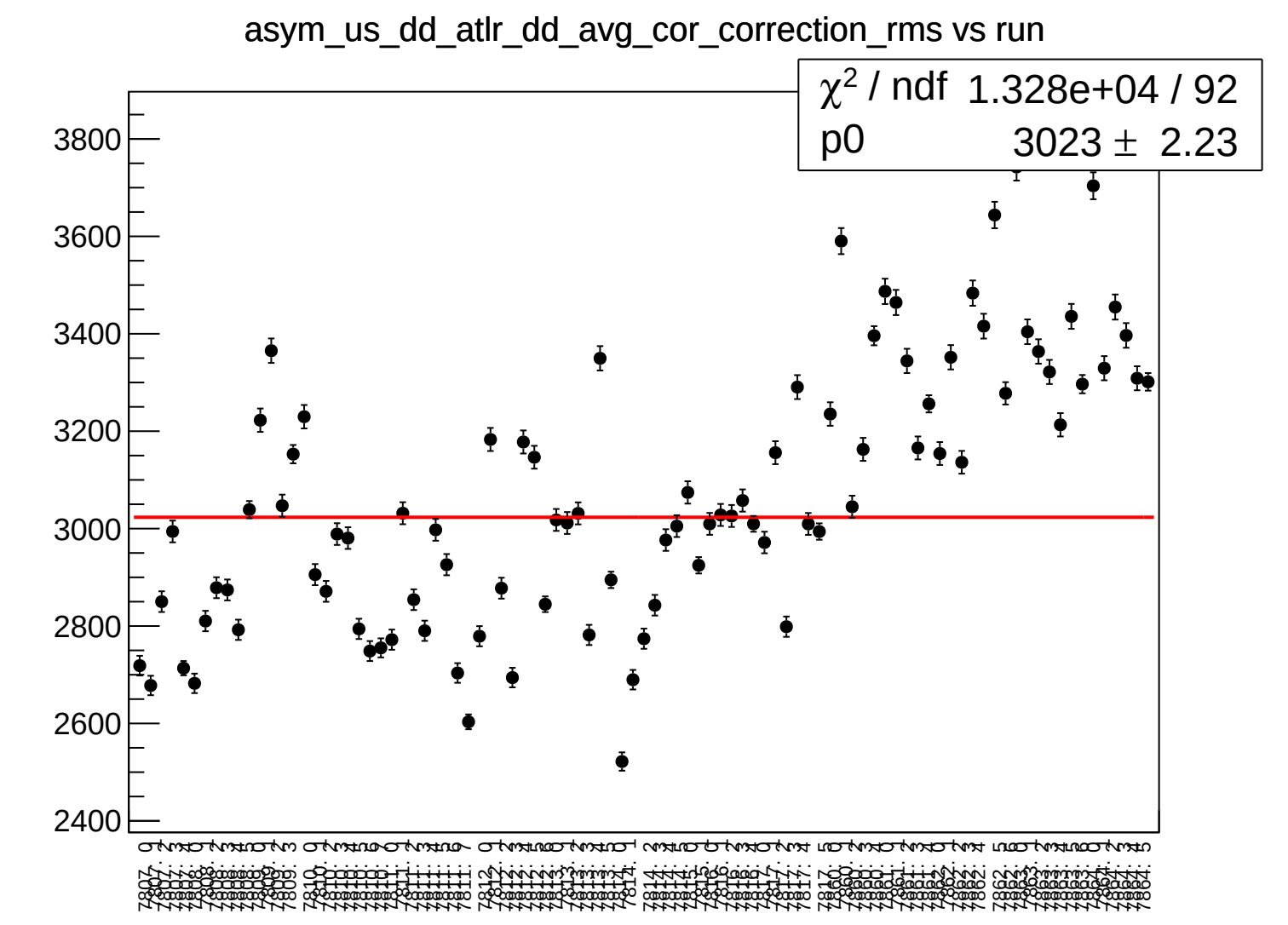

cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 92.27 / 92
p0 −1610 ± 1855
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean 313
Std Dev 0
2
1
0
−1
−2

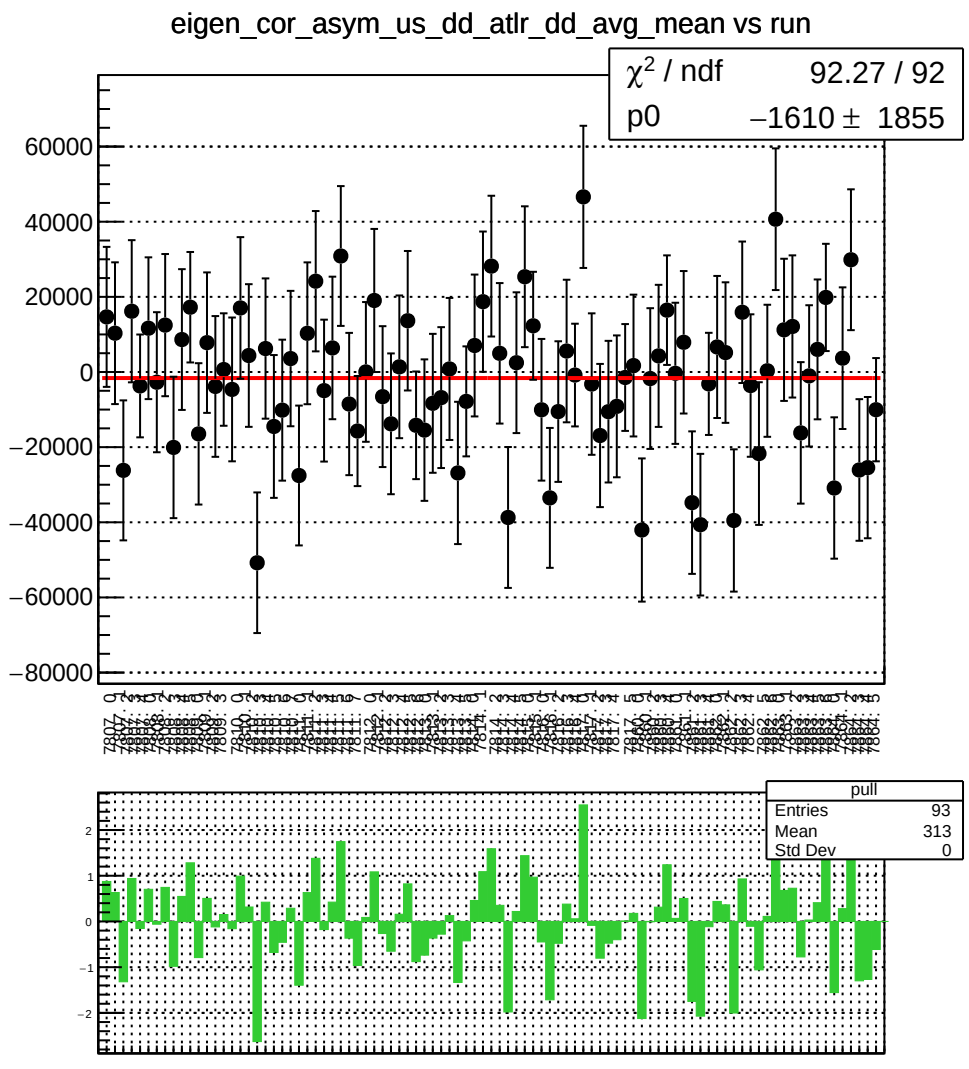

pull1D
Entries 93
Mean −0.006708
Std Dev 0.996
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

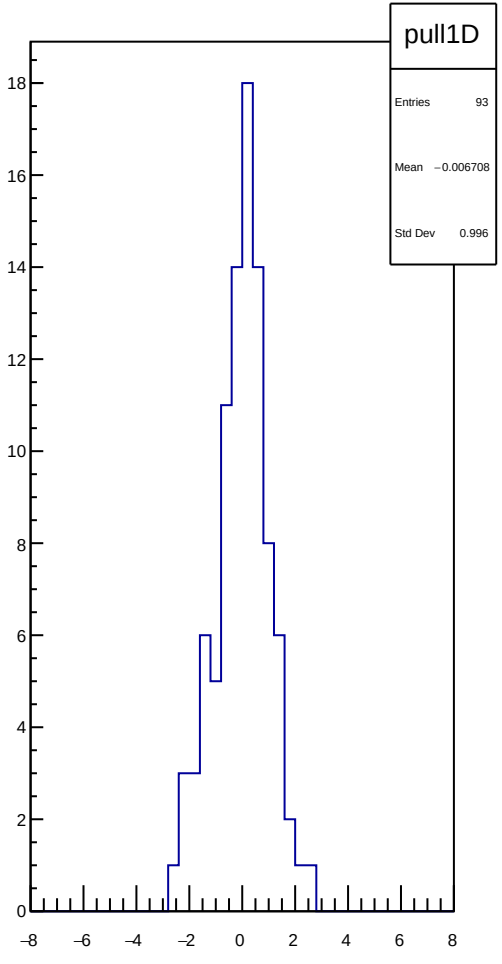

cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 79.74 / 92
p0 1785 ± 1.311
1820
1800
1780
1760
1740

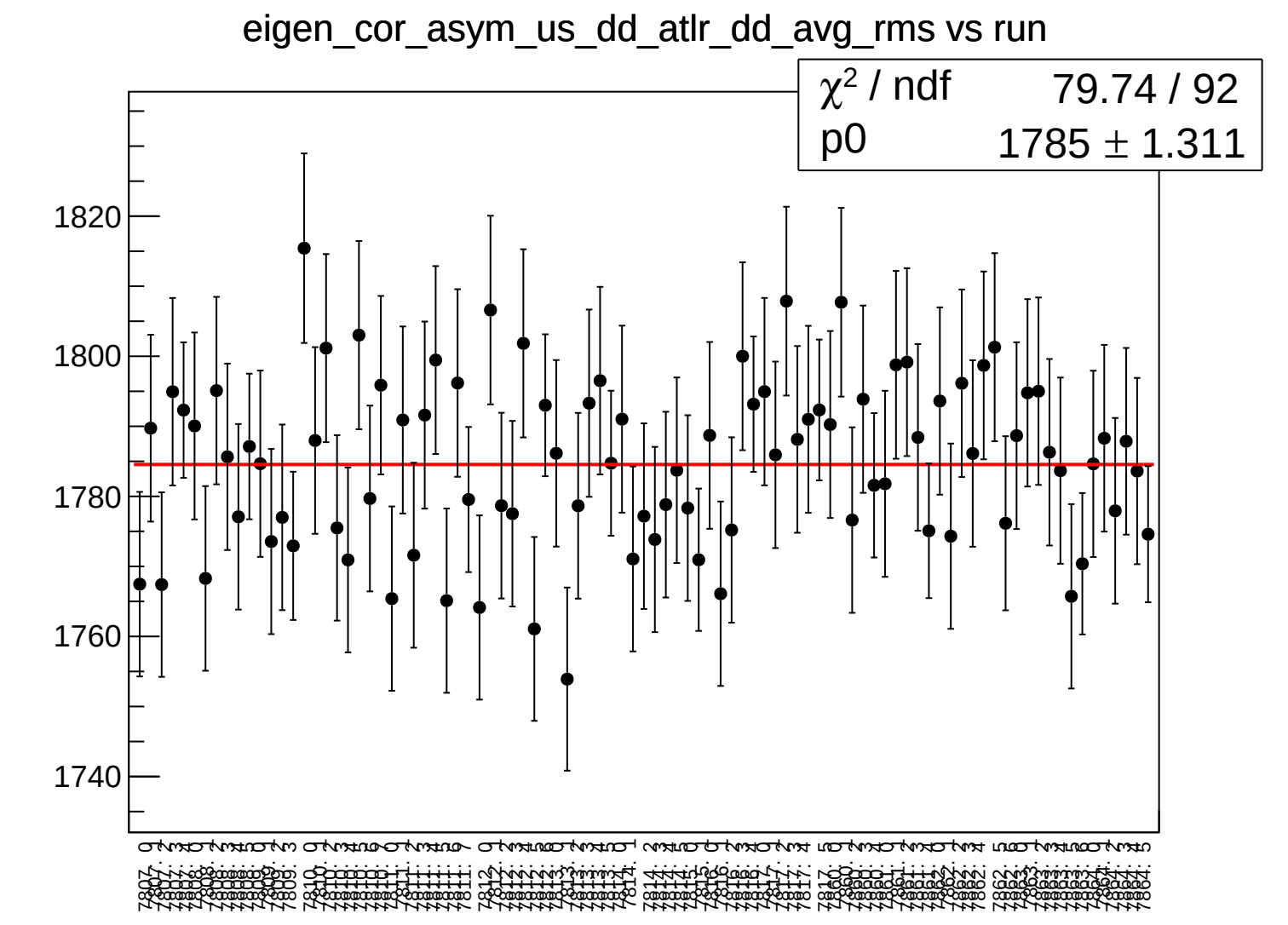

asym_us_dd_atlr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 83.92 / 92
p0 −1738 ± 3153
100
50
0
−50
−100
pull
Entries 93
Mean −24.83
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

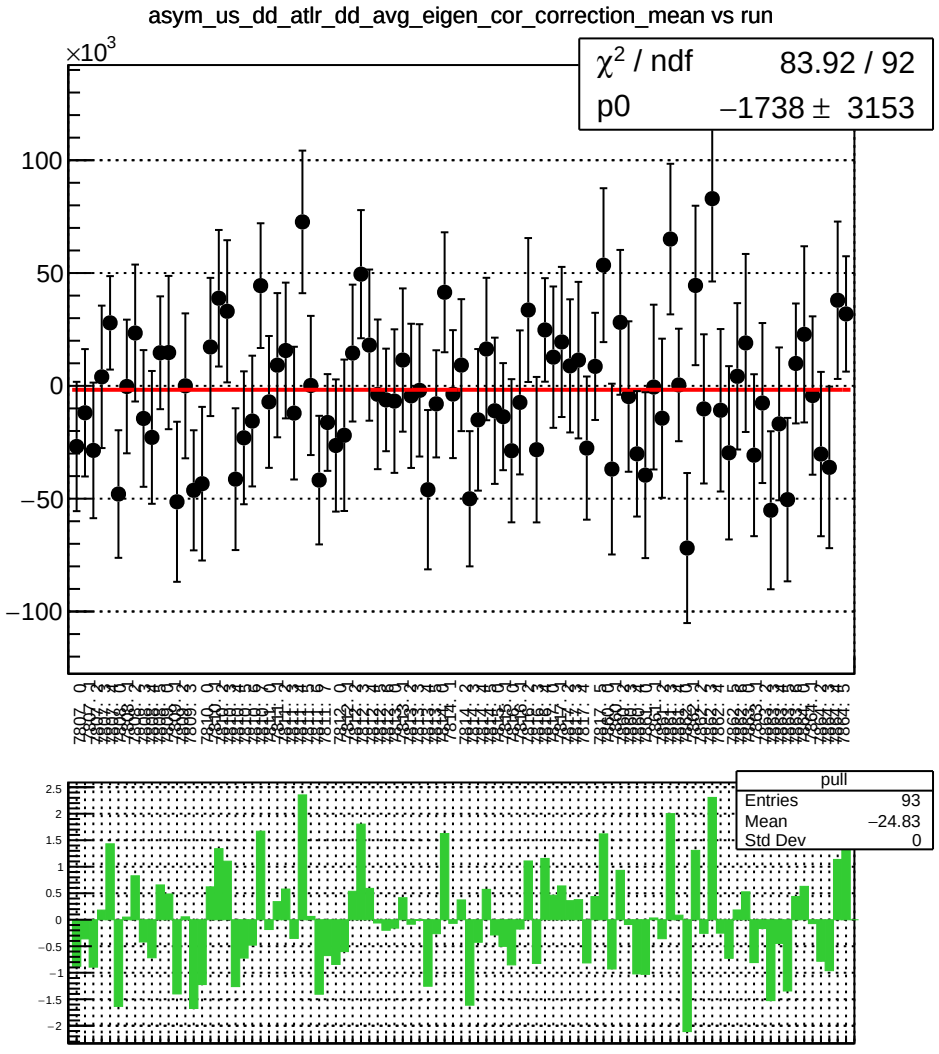

pull1D
Entries 93
Mean −0.01562
Std Dev 0.9498
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

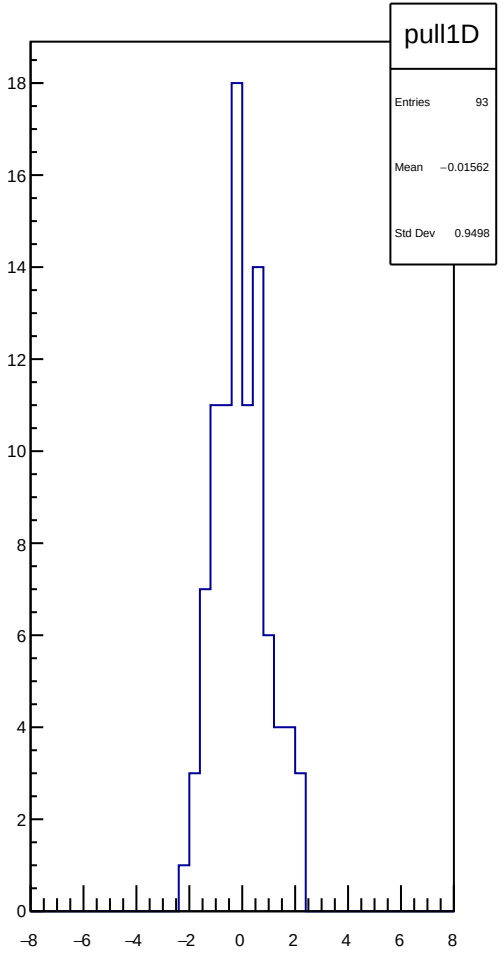

asym_us_dd_atlr_dd_avg_cor_correction_rms vs run
χ² / ndf 1.328e+04 / 92
p0 3023 ± 2.23
3800
3600
3400
3200
3000
2800
2600
2400

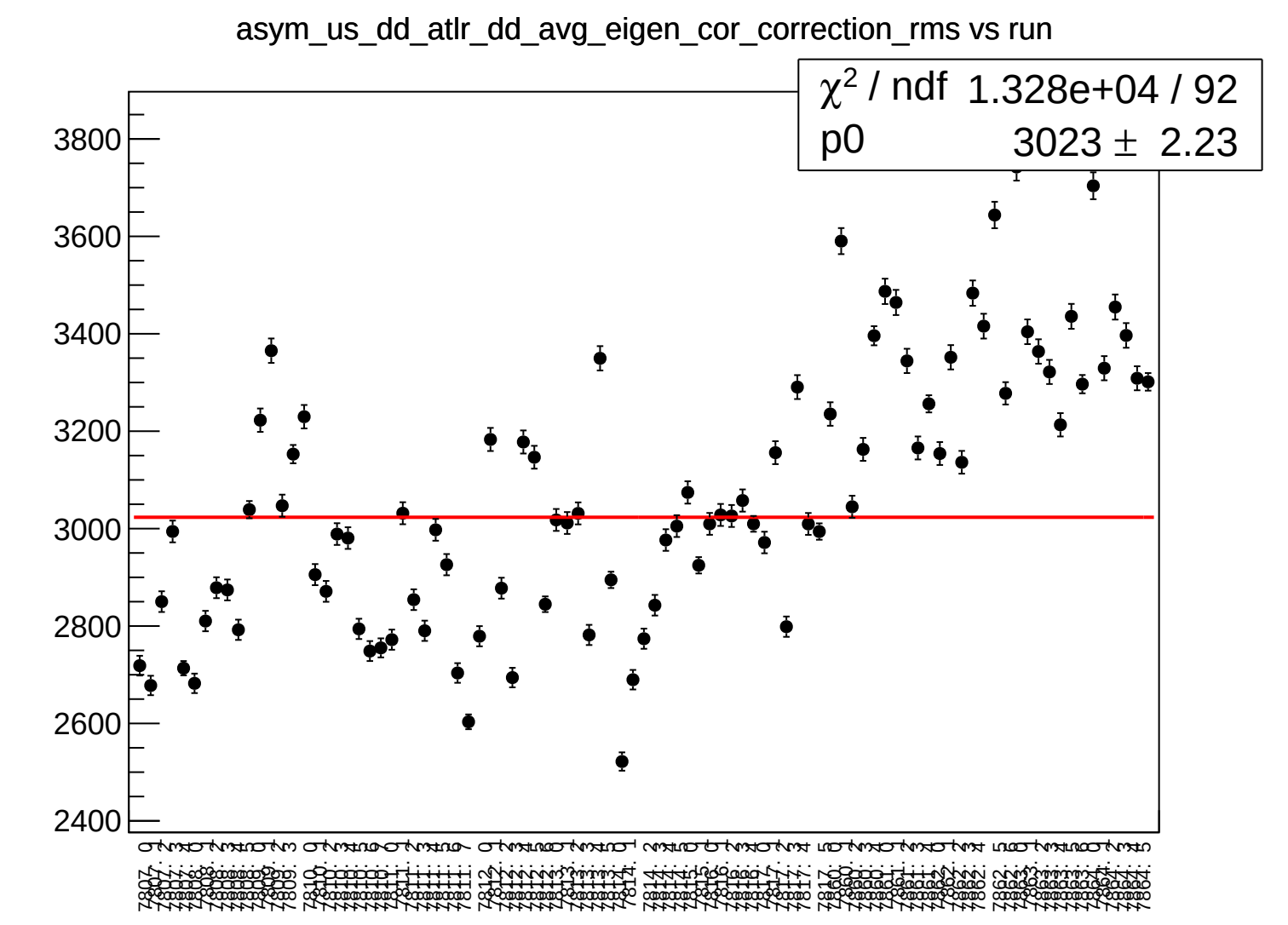

eigen_cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 92.27 / 92
p0 −1610 ± 1855
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean 313
Std Dev 0
2
1
0
−1
−2

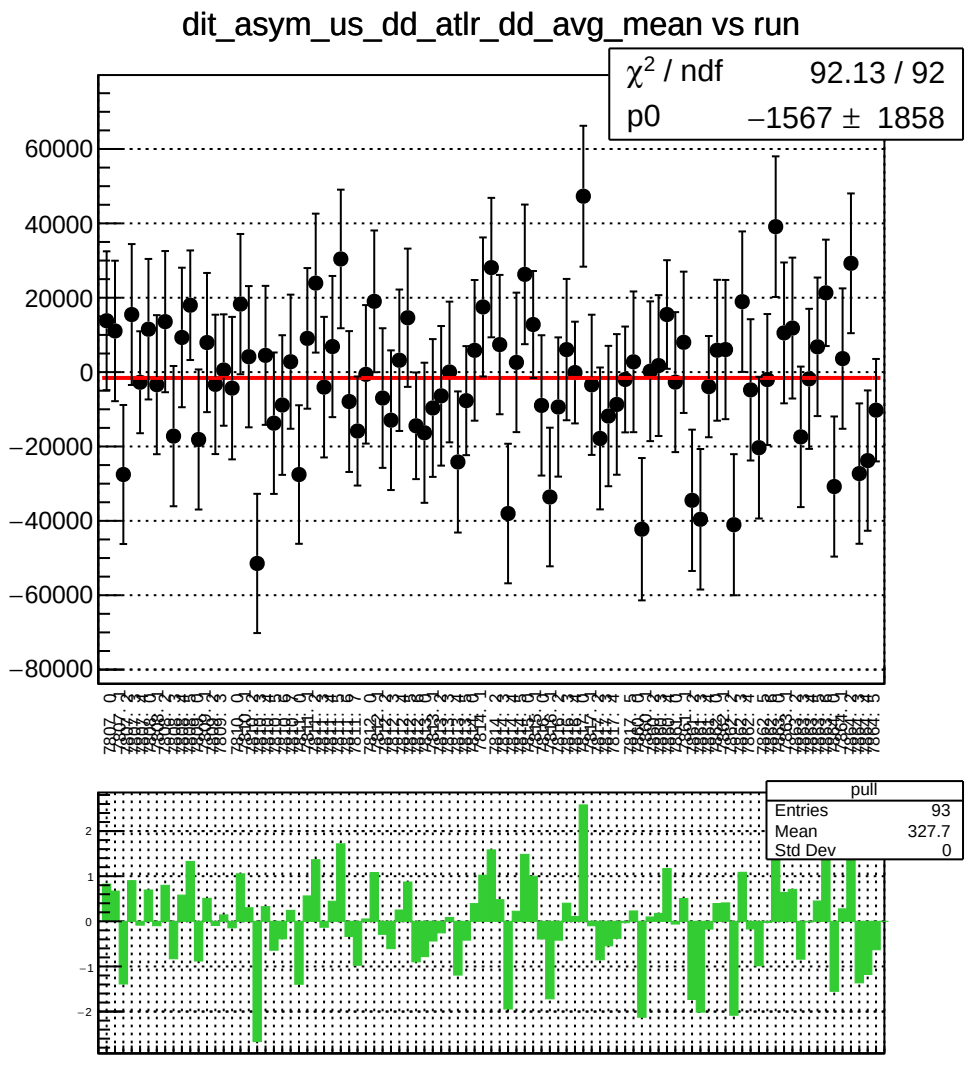

pull1D
Entries 93
Mean −0.006708
Std Dev 0.996
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

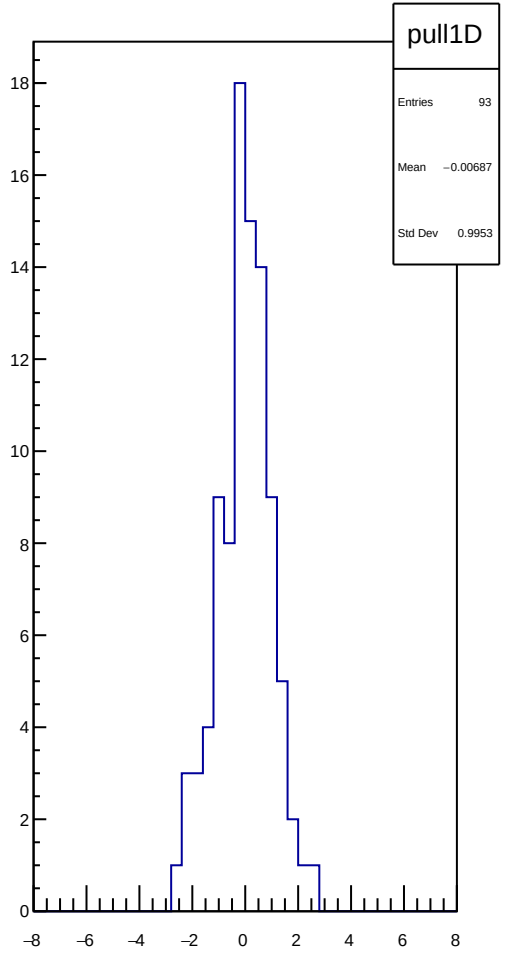

eigen_cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 79.74 / 92
p0 1785 ± 1.311
1820
1800
1780
1760
1740

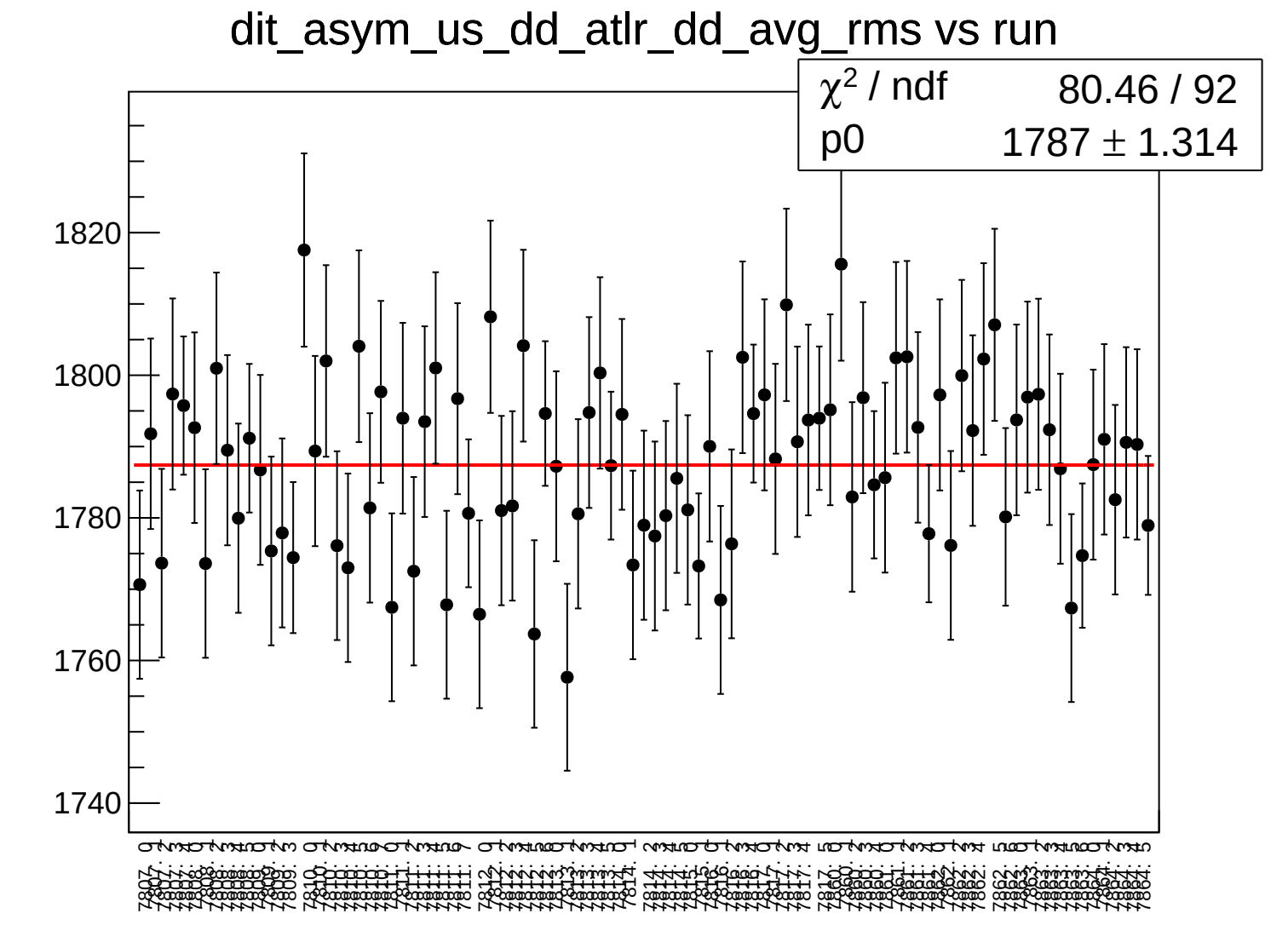

asym_us_dd_atlr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 83.92 / 92
p0 −1738 ± 3153
100
50
0
−50
−100
pull
Entries 93
Mean −24.83
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

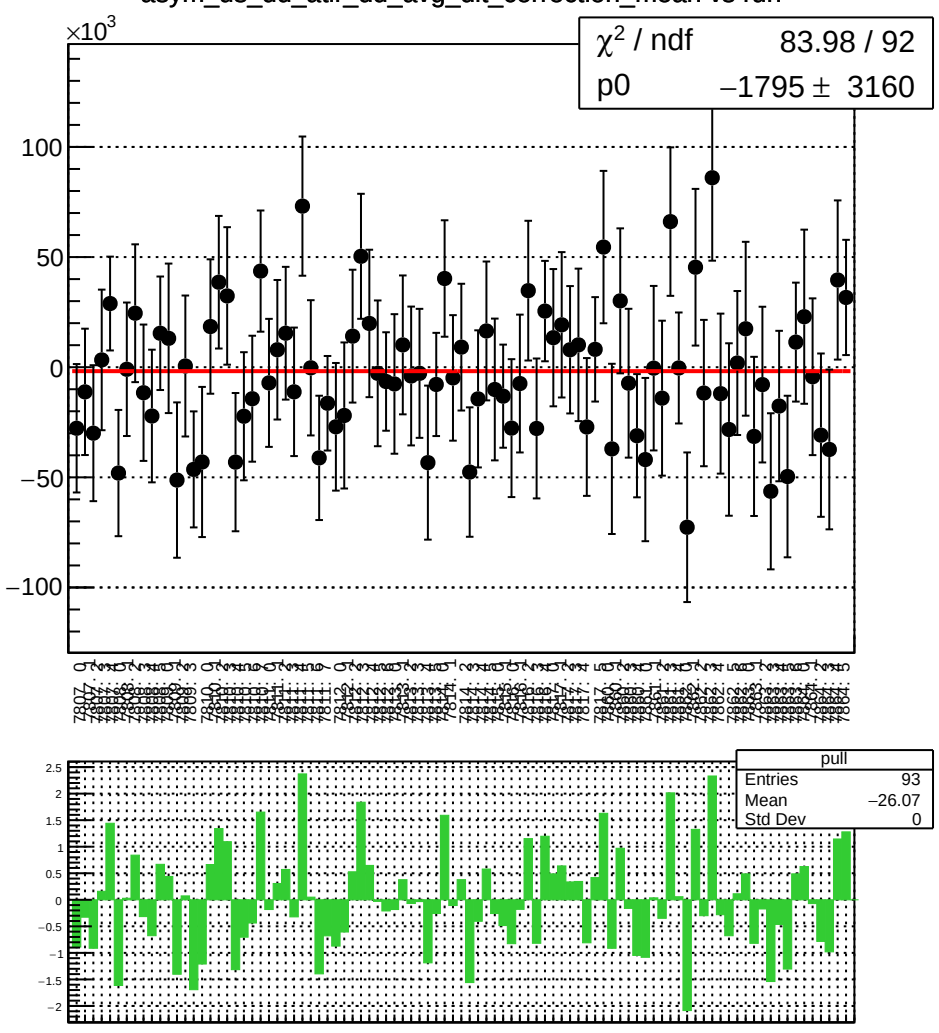

pull1D
Entries 93
Mean −0.01562
Std Dev 0.9498
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

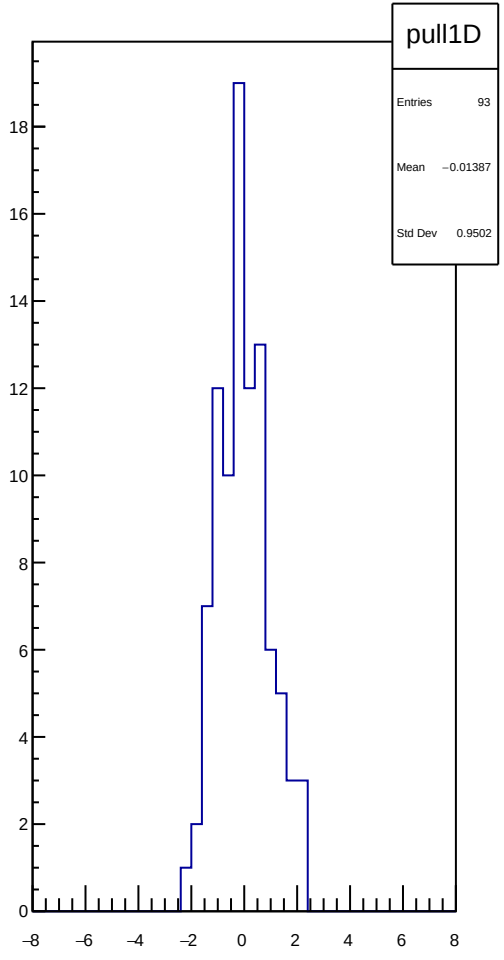

asym_us_dd_atlr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.328e+04 / 92
p0 3023 ± 2.23
3800
3600
3400
3200
3000
2800
2600
2400

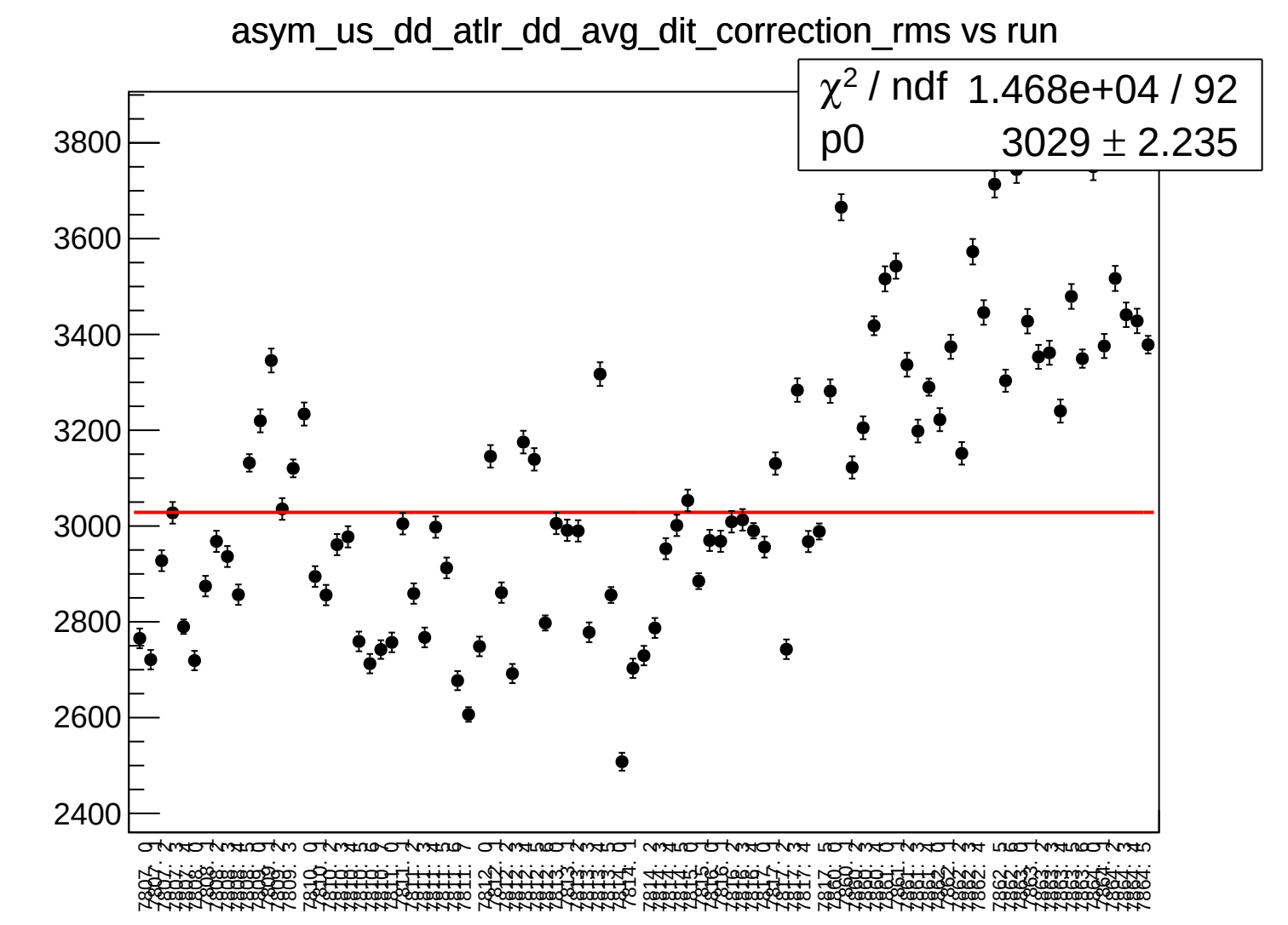

dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 92.13 / 92
p0 −1567 ± 1858
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean 327.7
Std Dev 0
2
1
0
−1
−2

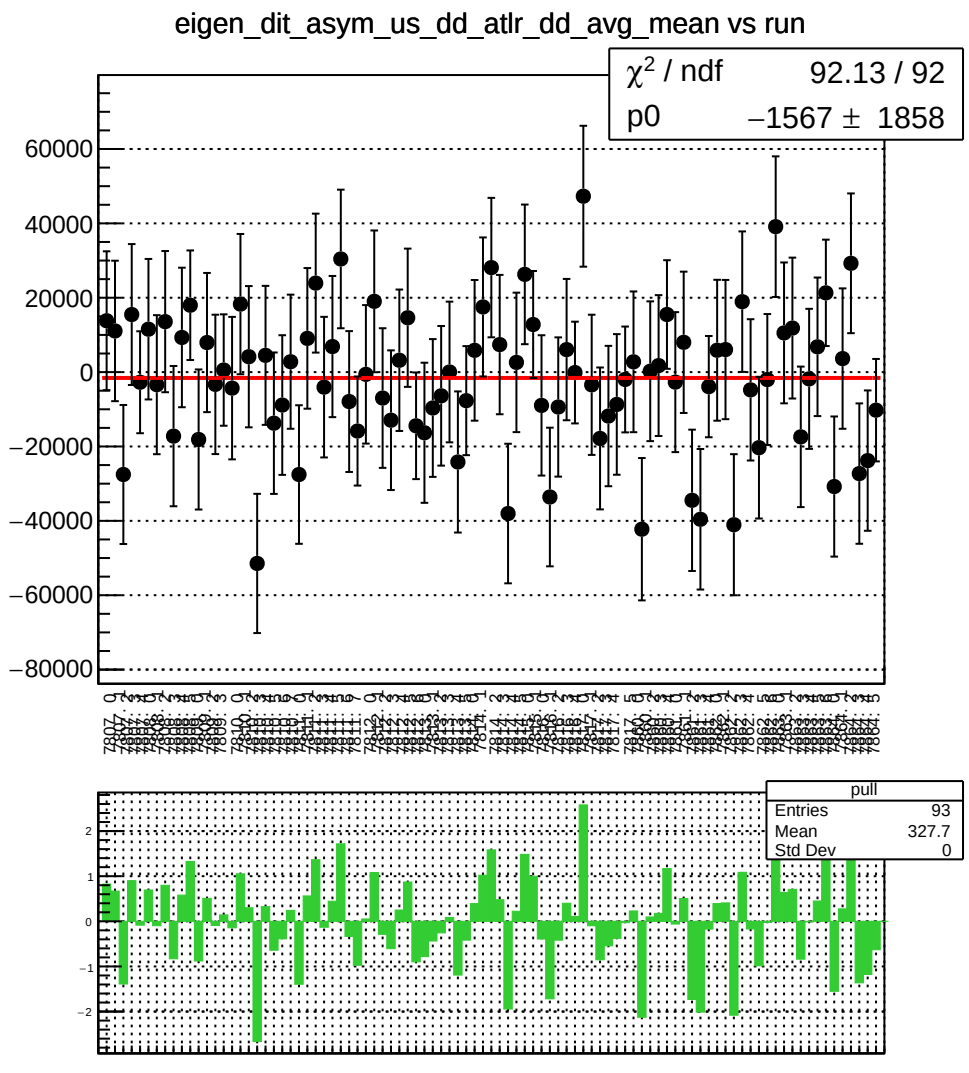

pull1D
Entries 93
Mean −0.00687
Std Dev 0.9953
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

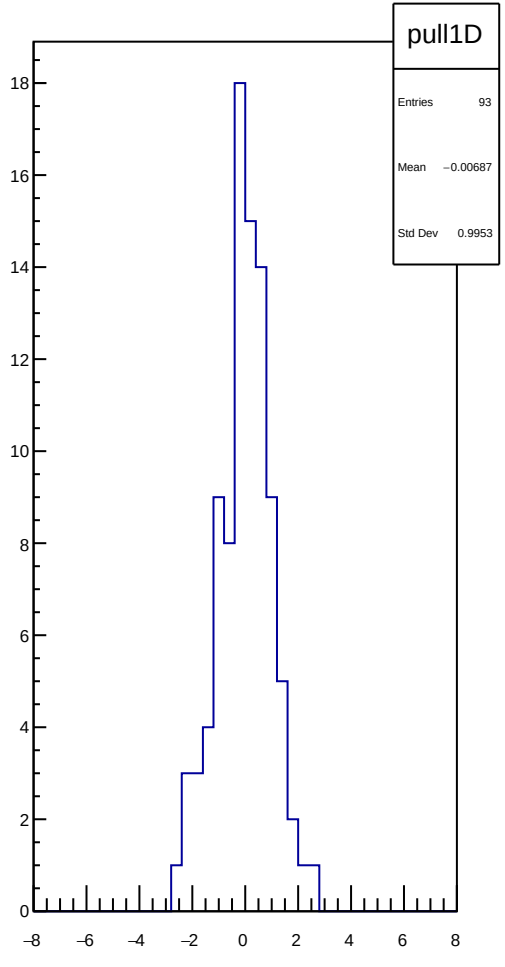

dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 80.46 / 92
p0 1787 ± 1.314
1820
1800
1780
1760
1740

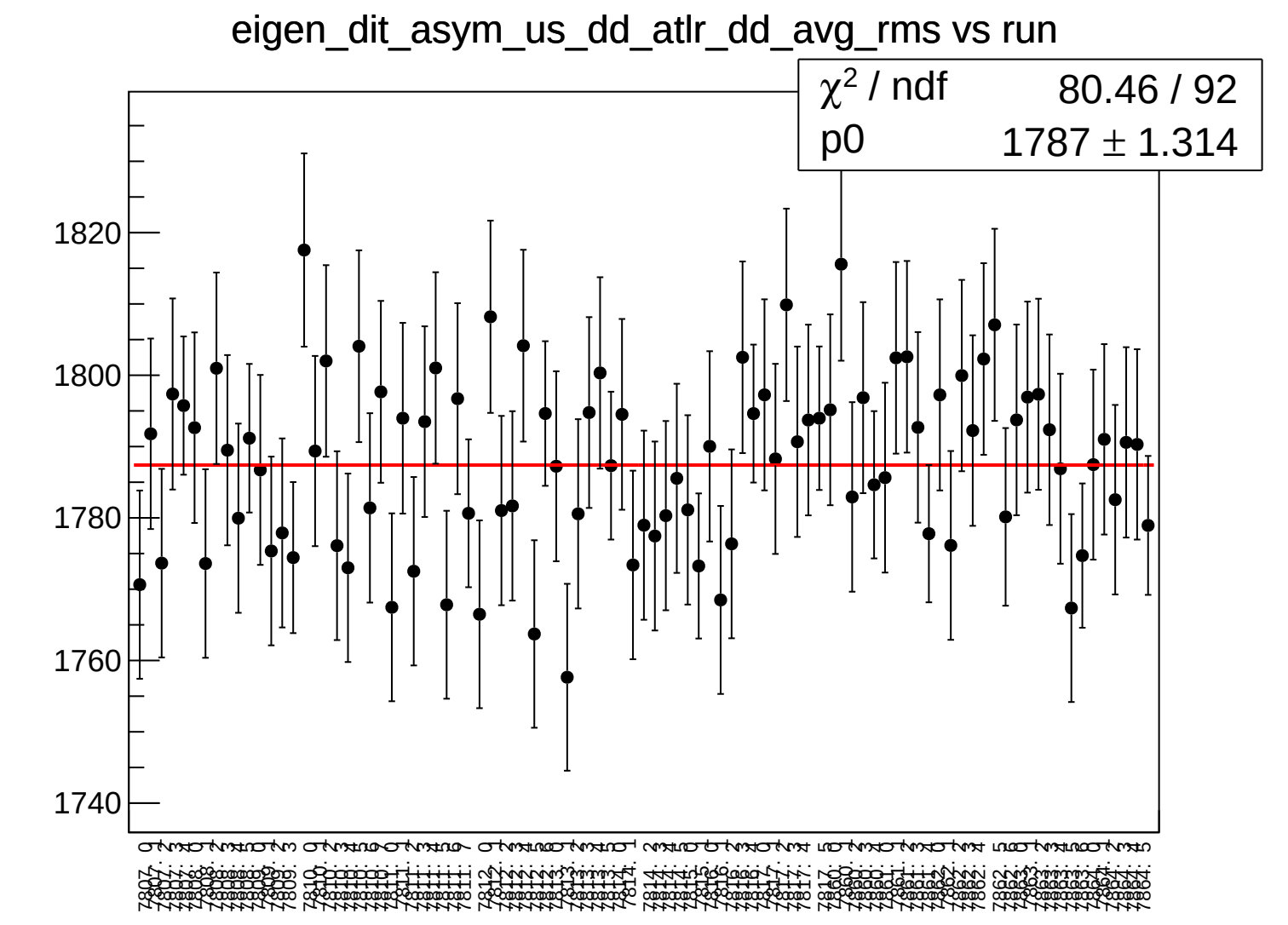

asym_us_dd_atlr_dd_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 83.98 / 92
p0 −1795 ± 3160
100
50
0
−50
−100
pull
Entries 93
Mean −26.07
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

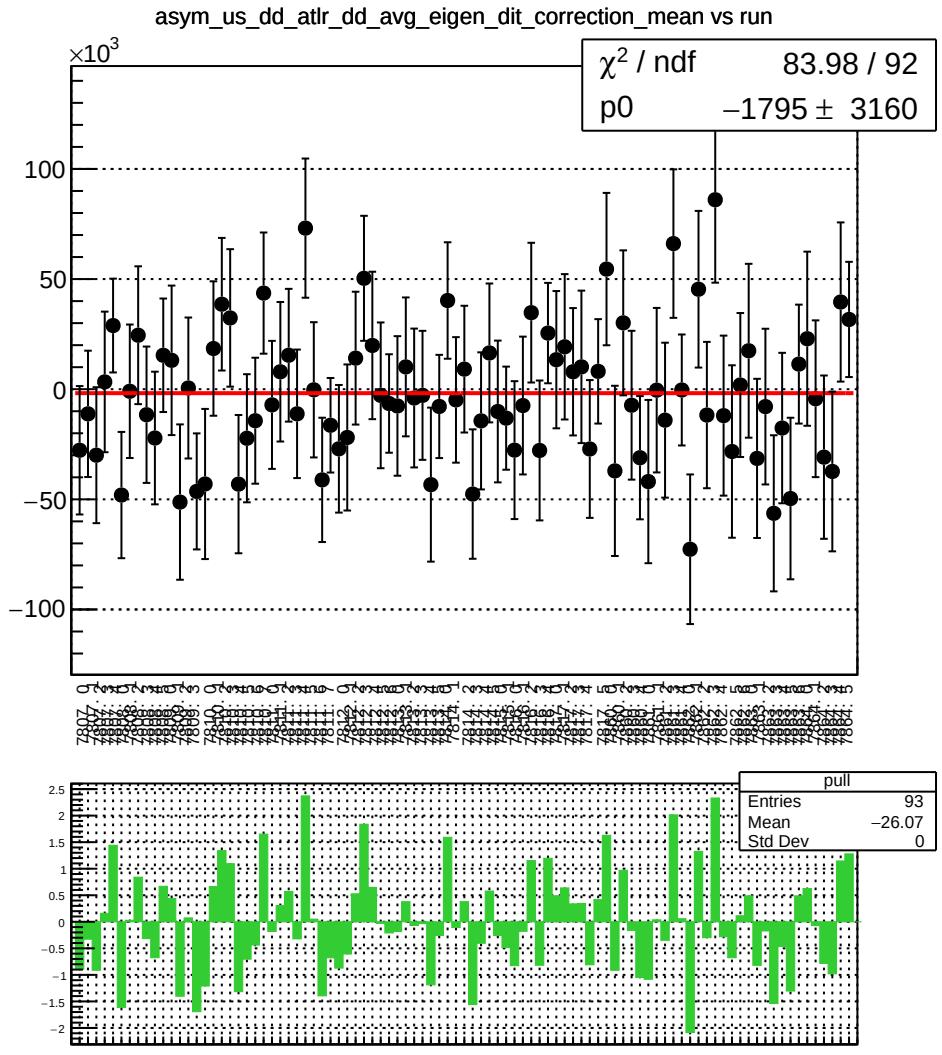

pull1D
Entries 93
Mean −0.01387
Std Dev 0.9502
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

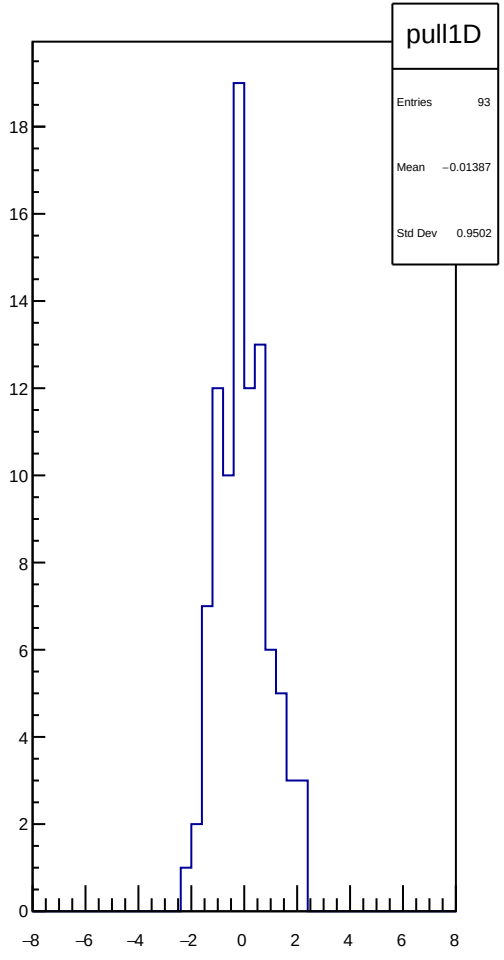

asym_us_dd_atlr_dd_avg_dit_correction_rms vs run
χ² / ndf 1.468e+04 / 92
p0 3029 ± 2.235
3800
3600
3400
3200
3000
2800
2600
2400

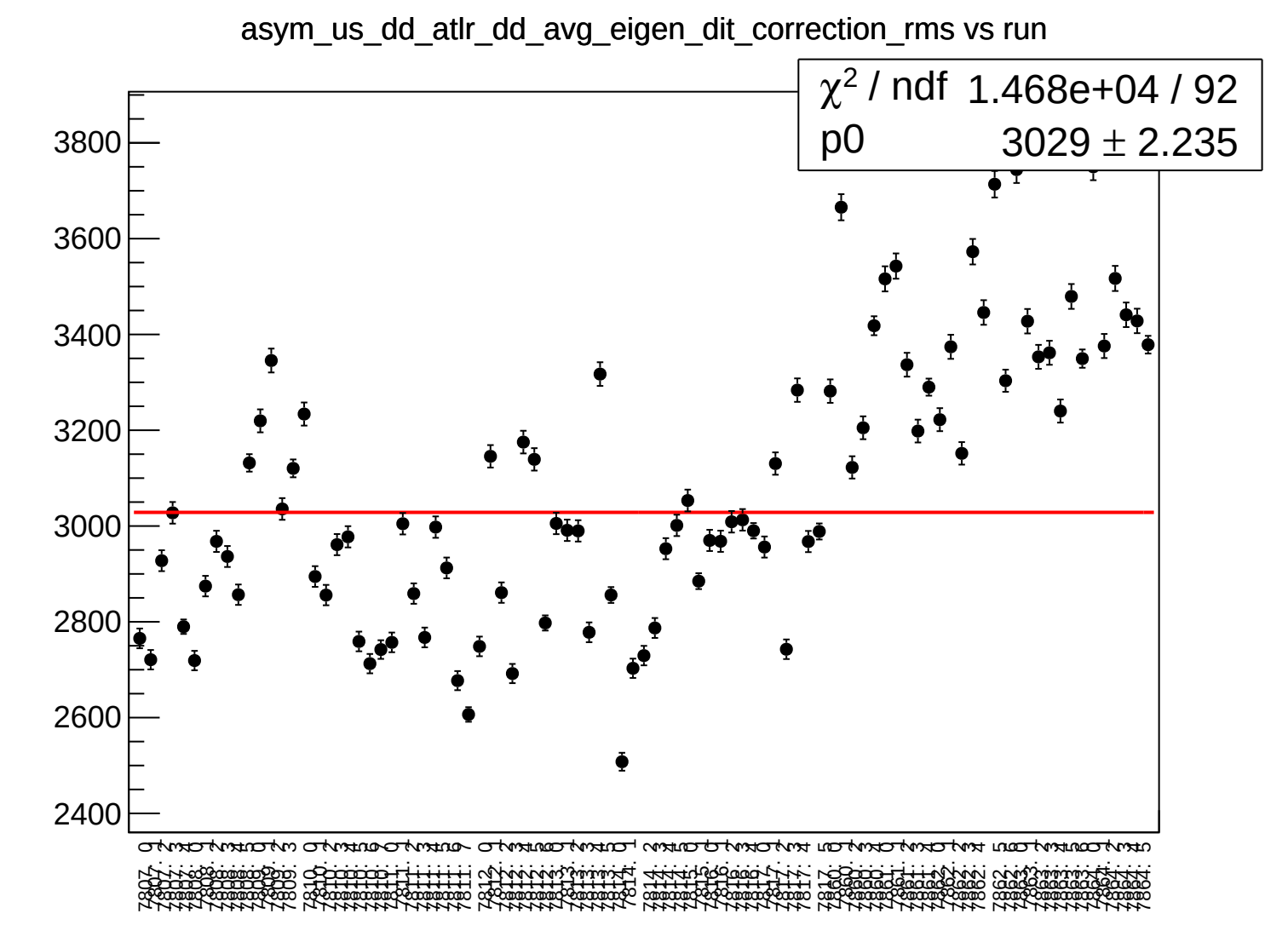

eigen_dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 92.13 / 92
p0 −1567 ± 1858
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean 327.7
Std Dev 0
2
1
0
−1
−2

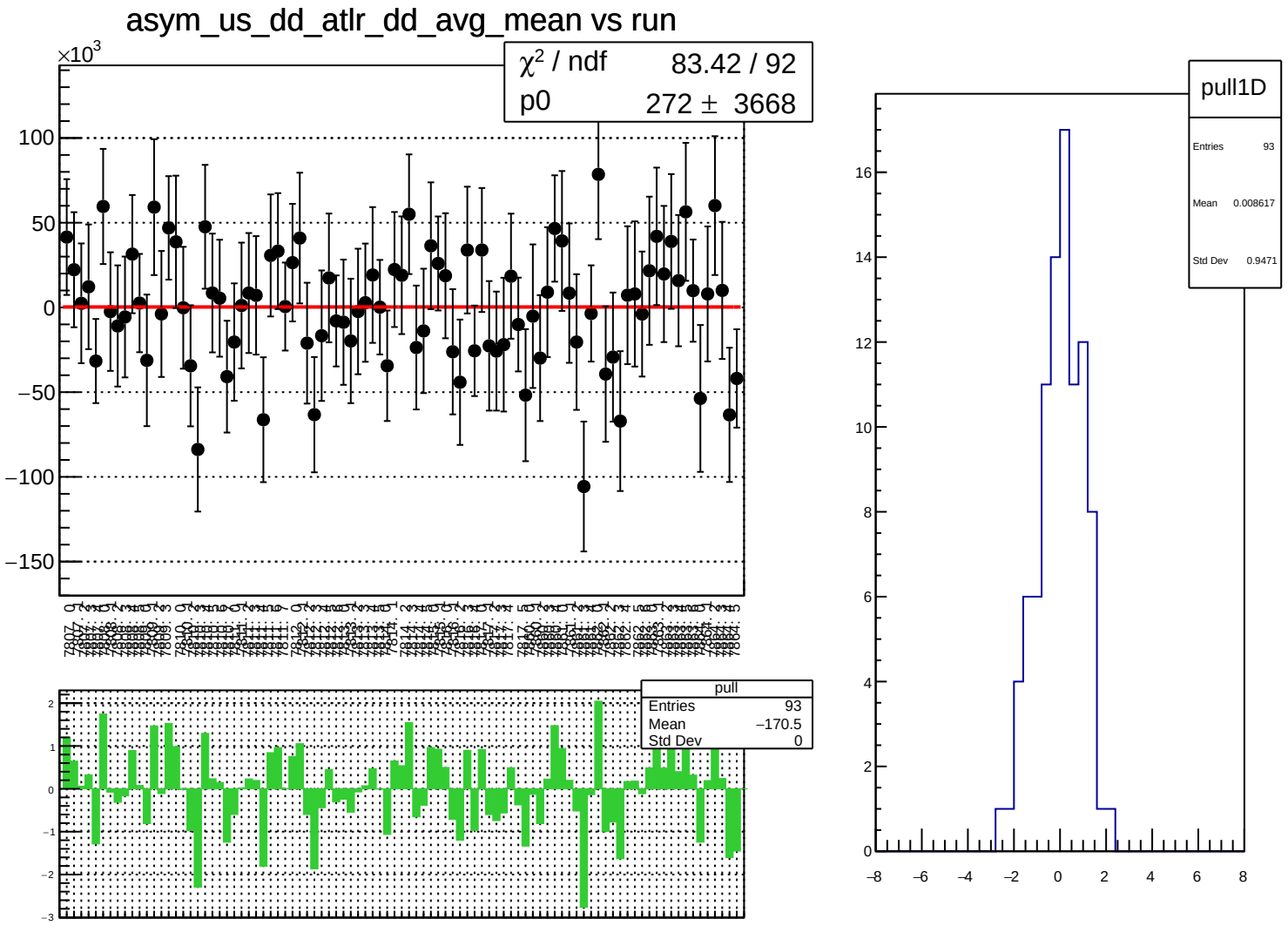

pull1D
Entries 93
Mean −0.00687
Std Dev 0.9953
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

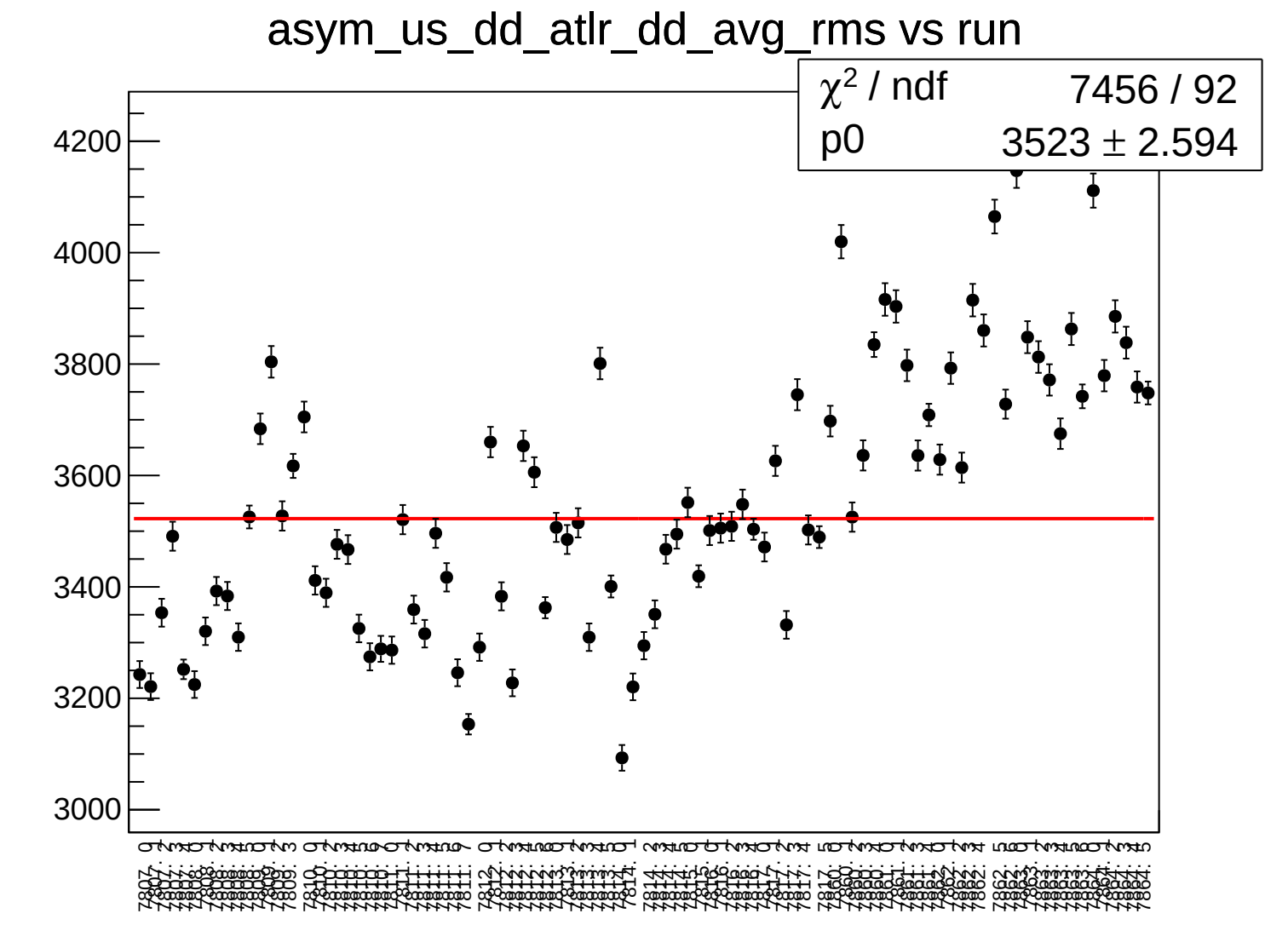

eigen_dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 80.46 / 92
p0 1787 ± 1.314
1820
1800
1780
1760
1740

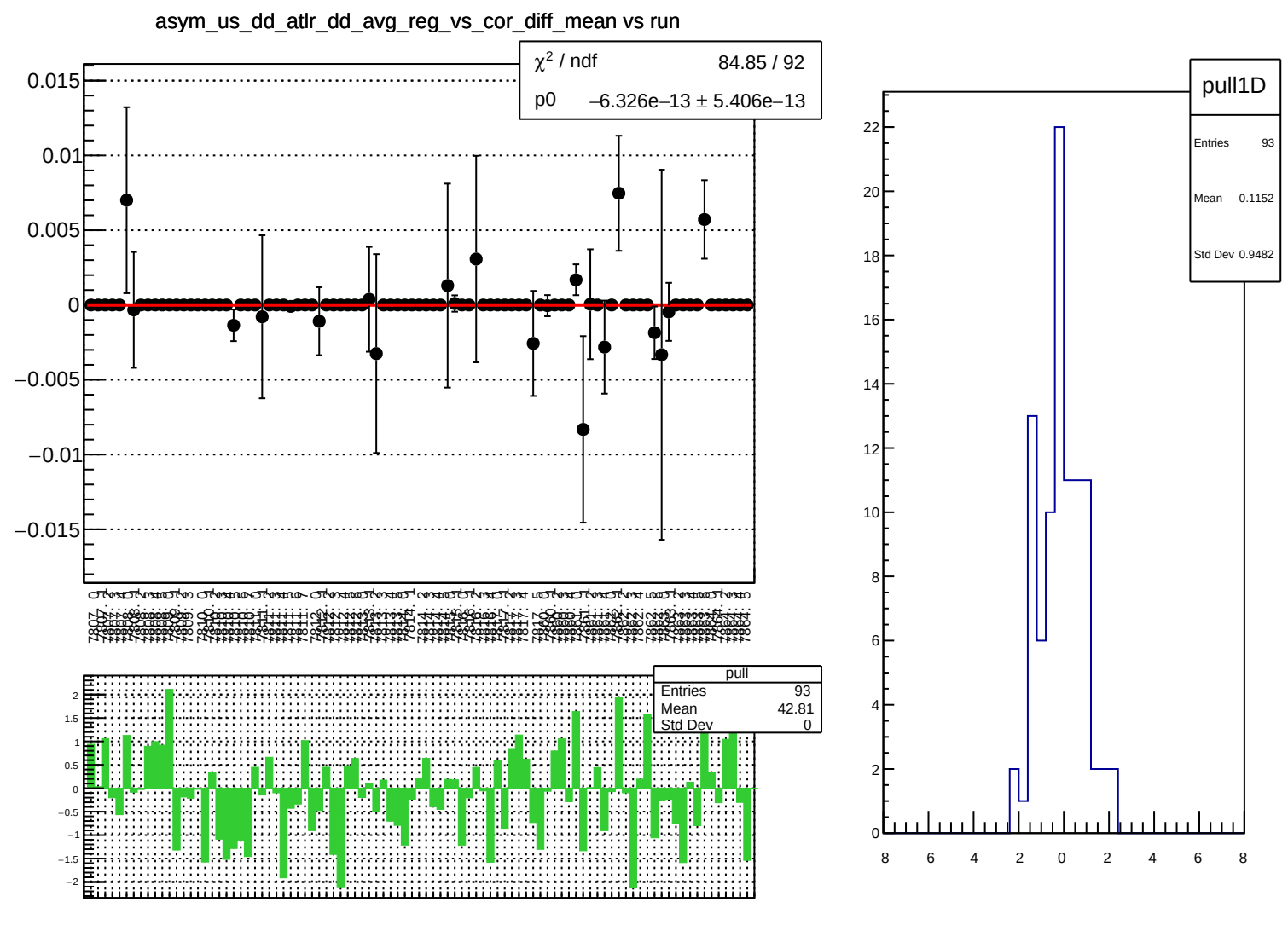

asym_us_dd_atlr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 83.98 / 92
p0 −1795 ± 3160
100
50
0
−50
−100
pull
Entries 93
Mean −26.07
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

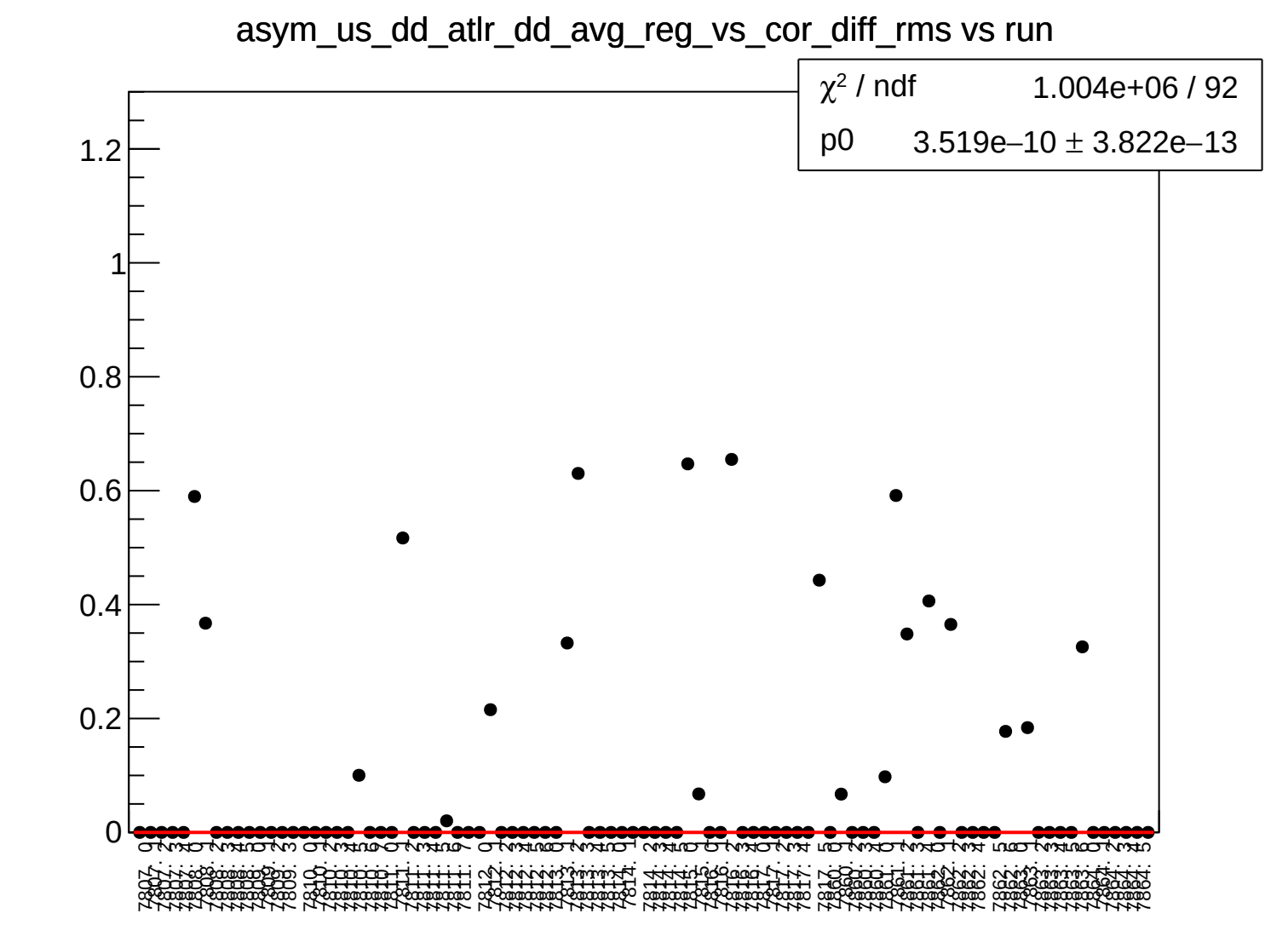

pull1D
Entries 93
Mean −0.01387
Std Dev 0.9502
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

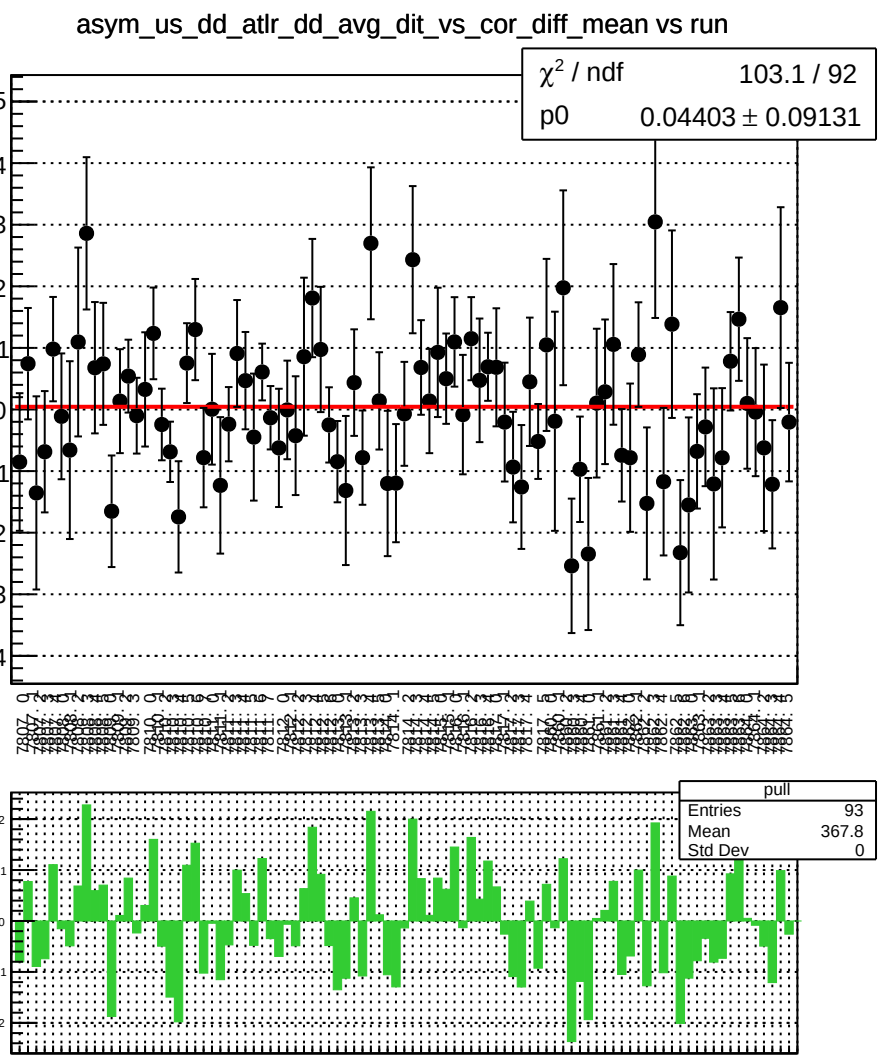

asym_us_dd_atlr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.468e+04 / 92
p0 3029 ± 2.235
3800
3600
3400
3200
3000
2800
2600
2400

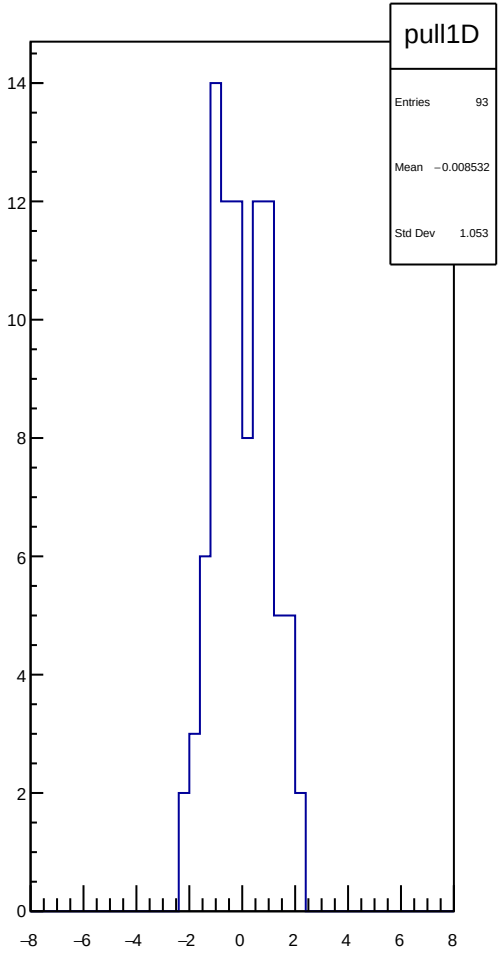

asym_us_dd_atlr_dd_avg_mean vs run
×10^3
χ² / ndf 83.42 / 92
p0 272 ± 3668
100
50
0
−50
−100
−150
pull
Entries 93
Mean −170.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.008617
Std Dev 0.9471
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

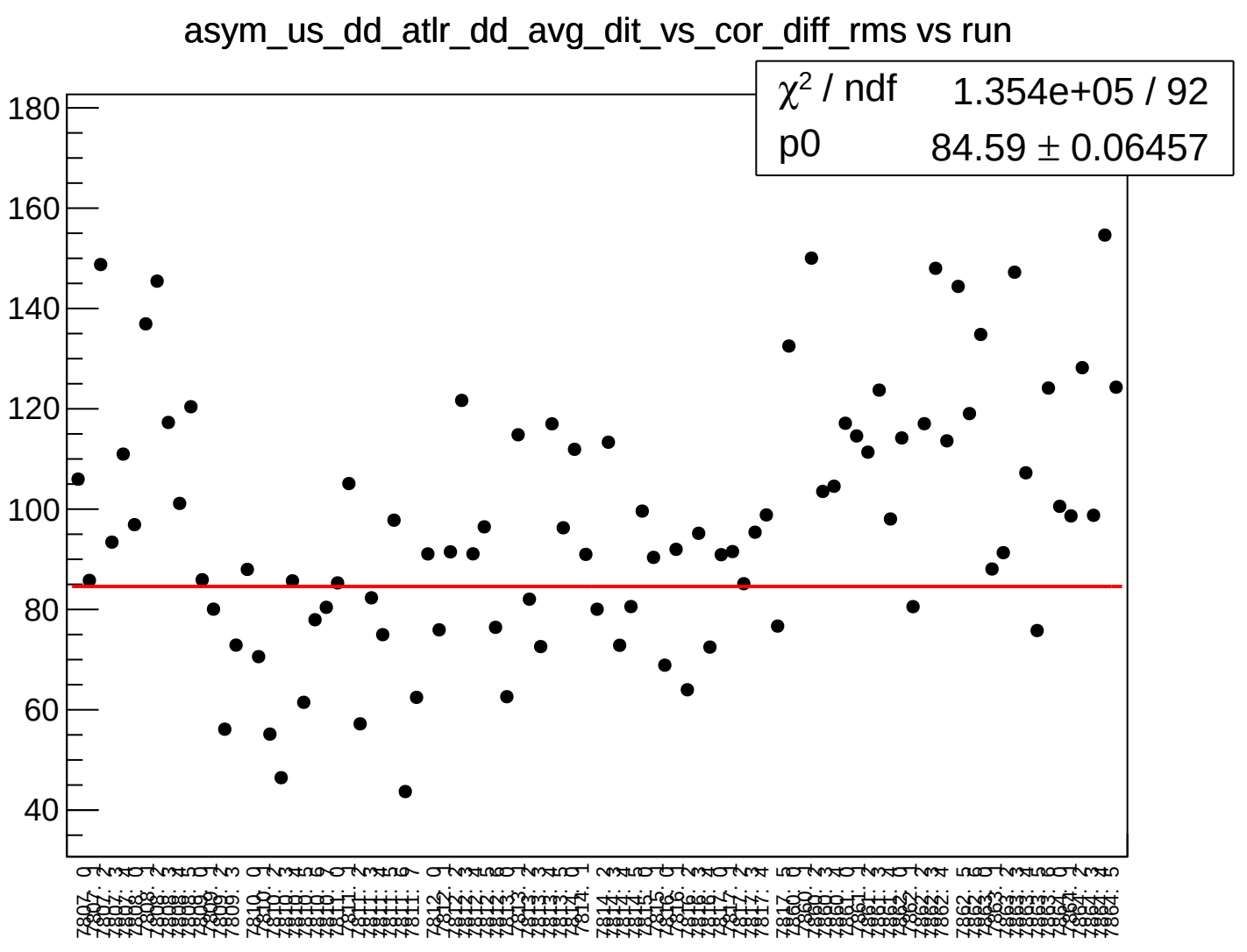

asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 7456 / 92
p0 3523 ± 2.594
4200
4000
3800
3600
3400
3200
3000

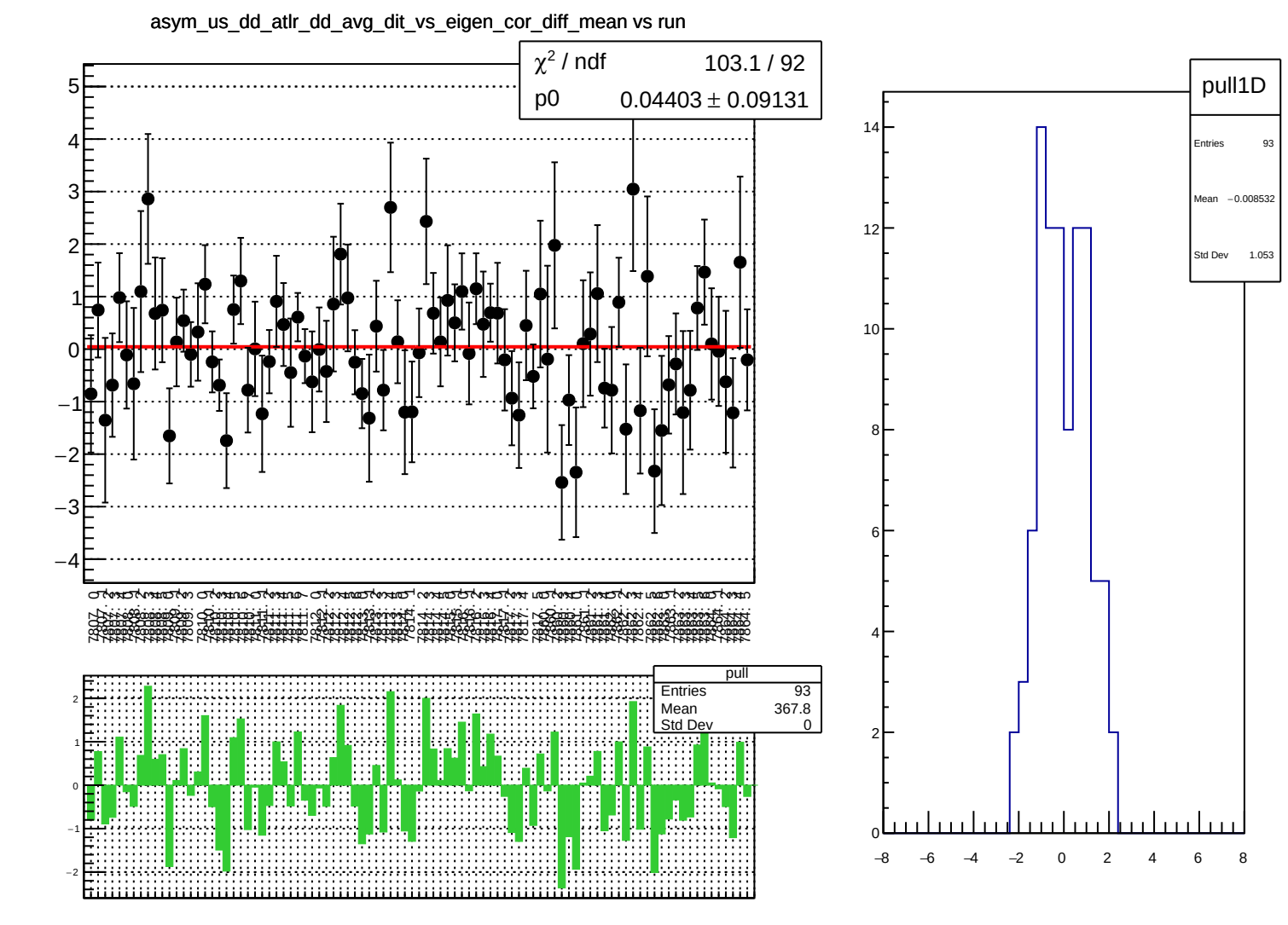

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 84.85 / 92
p0 −6.326e−13 ± 5.406e−13
pull
Entries 93
Mean 42.81
Std Dev 0
pull1D
Entries 93
Mean −0.1152
Std Dev 0.9482

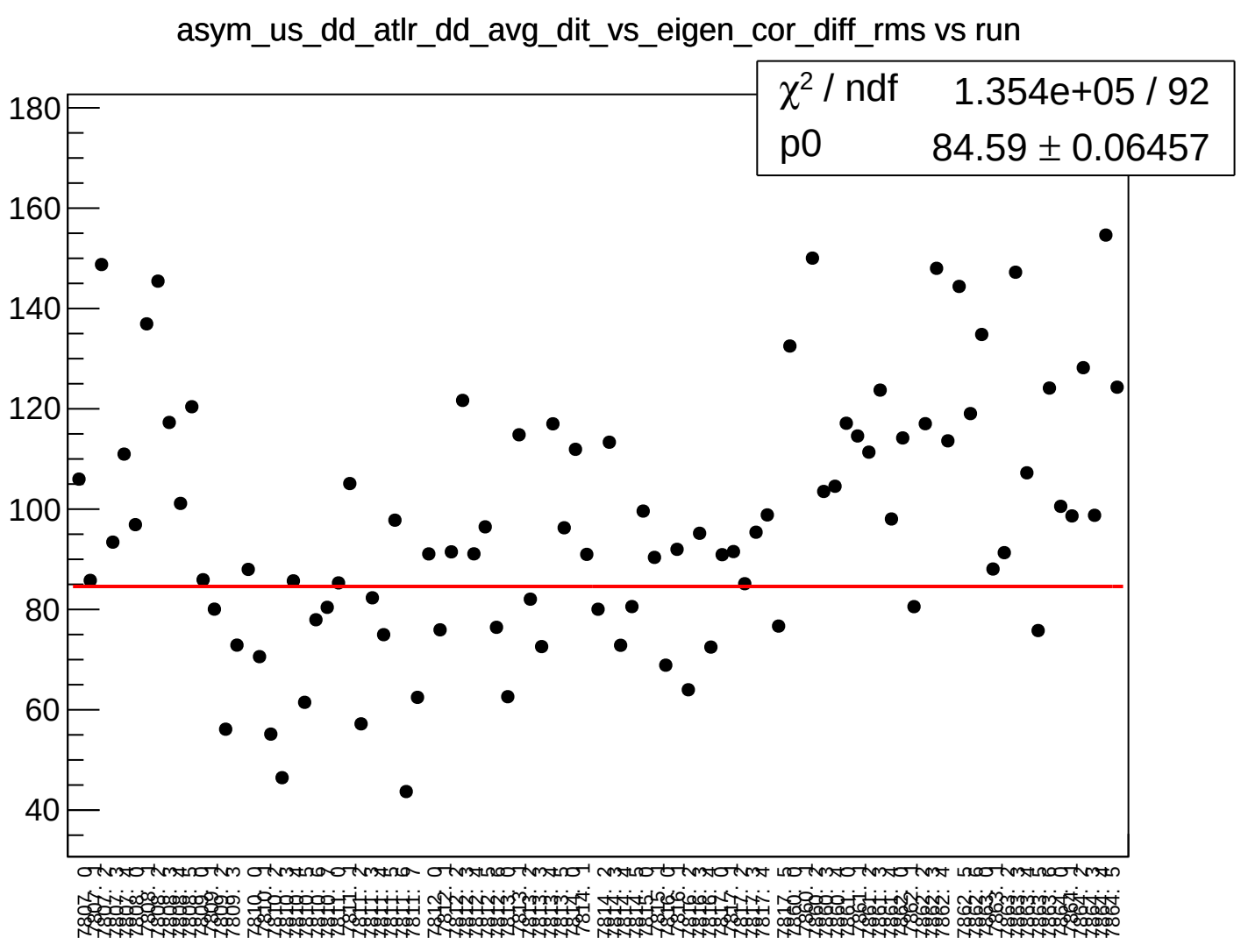

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.004e+06 / 92
p0 3.519e−10 ± 3.822e−13
1.2
1
0.8
0.6
0.4
0.2
0

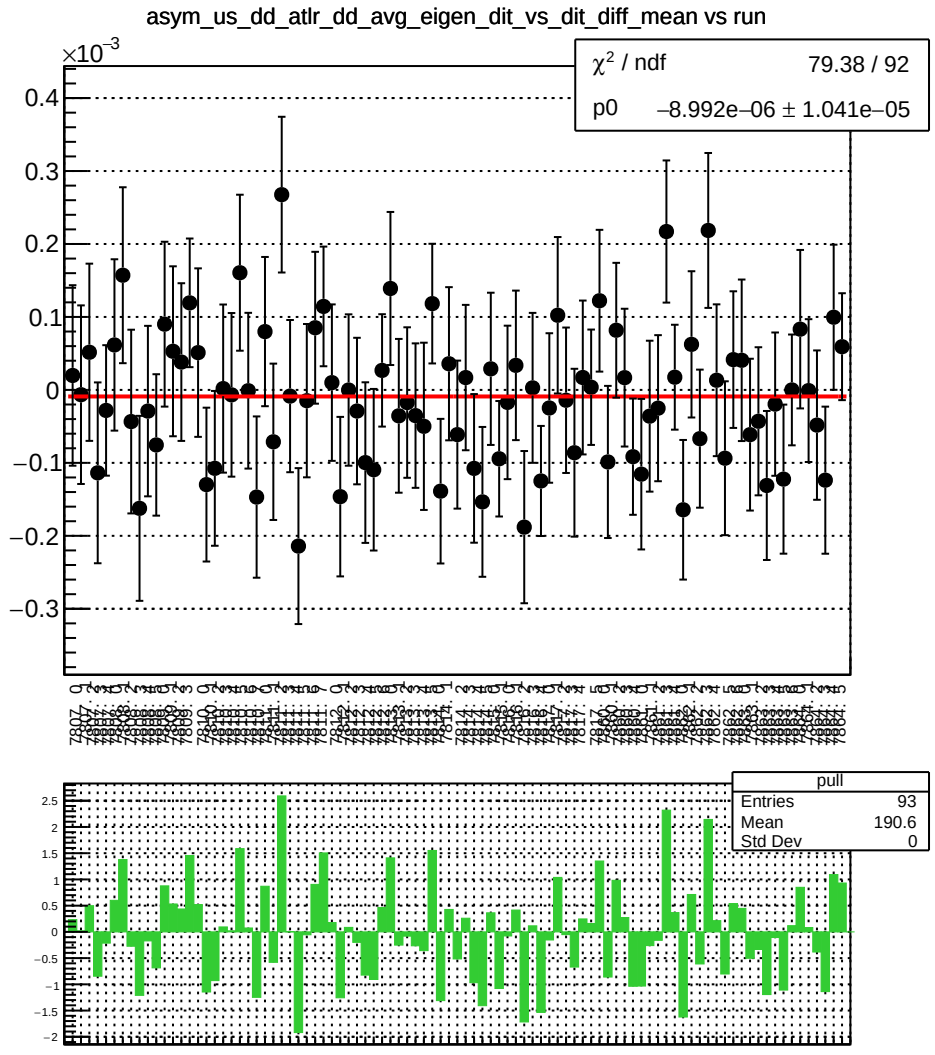

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 103.1 / 92
p0 0.04403 ± 0.09131
pull
Entries 93
Mean 367.8
Std Dev 0

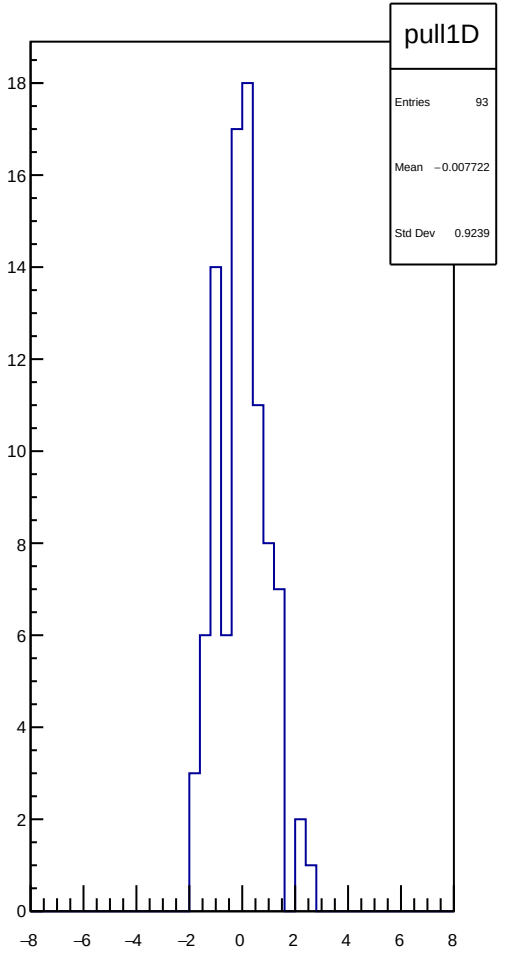

pull1D
Entries 93
Mean −0.008532
Std Dev 1.053

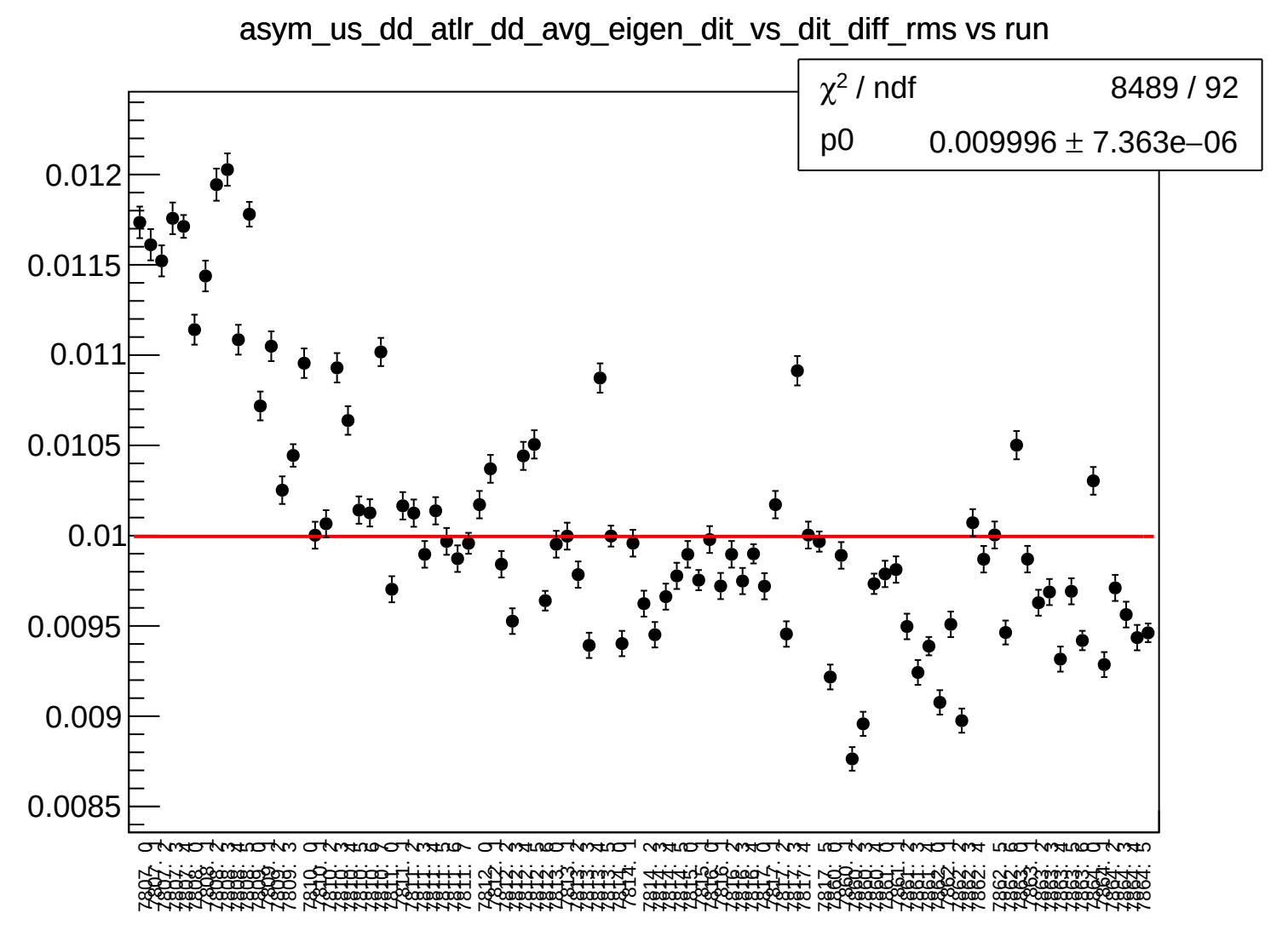

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.354e+05 / 92
p0 84.59 ± 0.06457
180
160
140
120
100
80
60
40

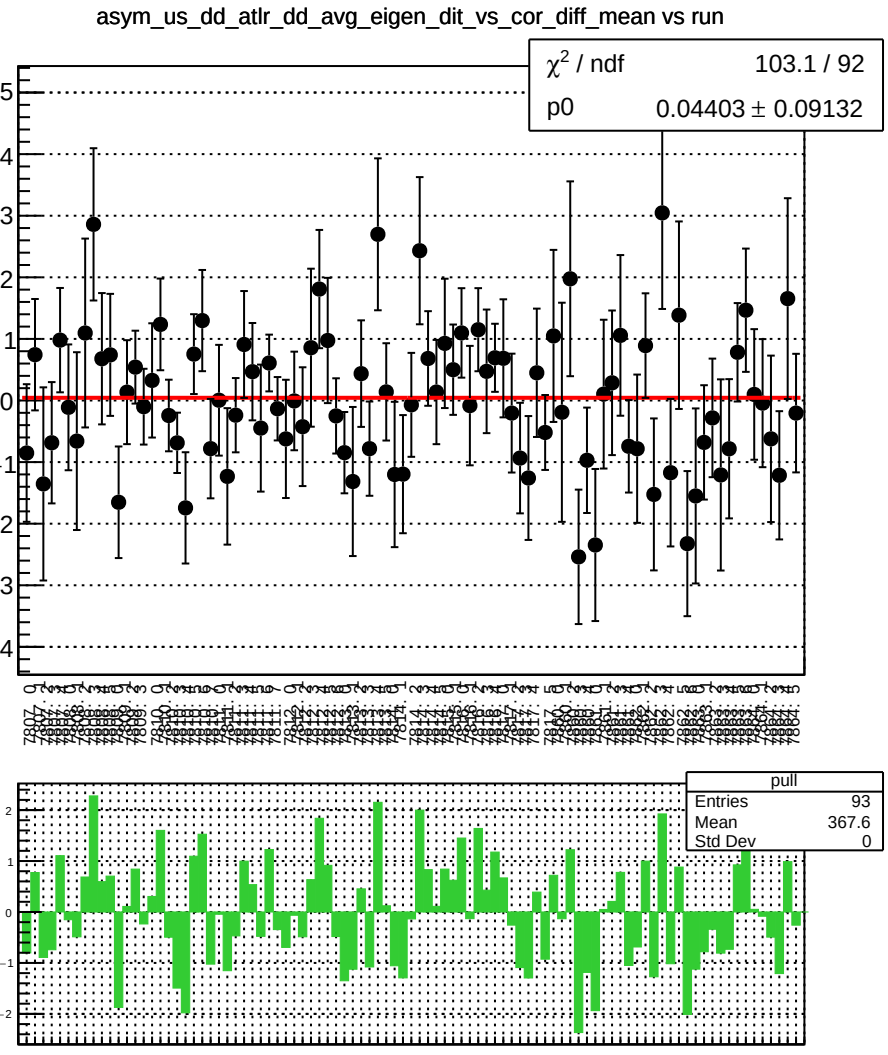

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.1 / 92
p0 0.04403 ± 0.09131
pull
Entries 93
Mean 367.8
Std Dev 0
pull1D
Entries 93
Mean −0.008532
Std Dev 1.053

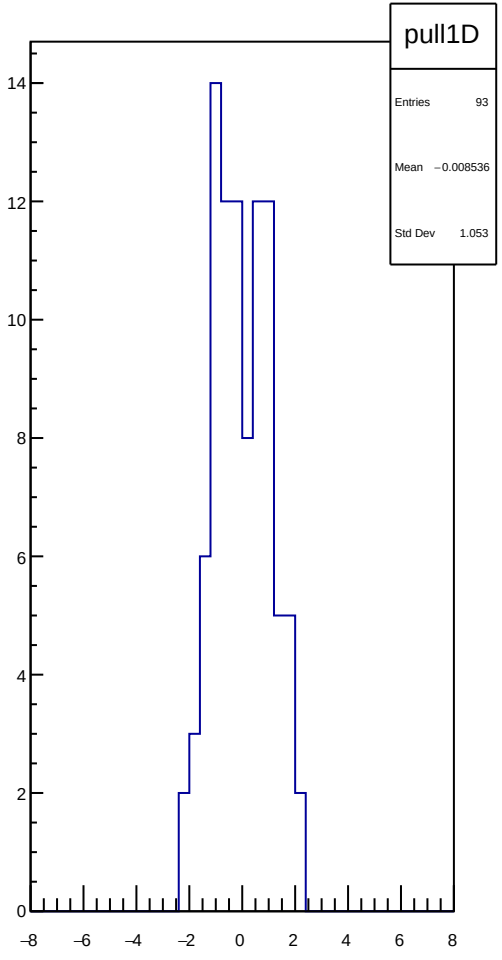

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.354e+05 / 92
p0 84.59 ± 0.06457
180
160
140
120
100
80
60
40

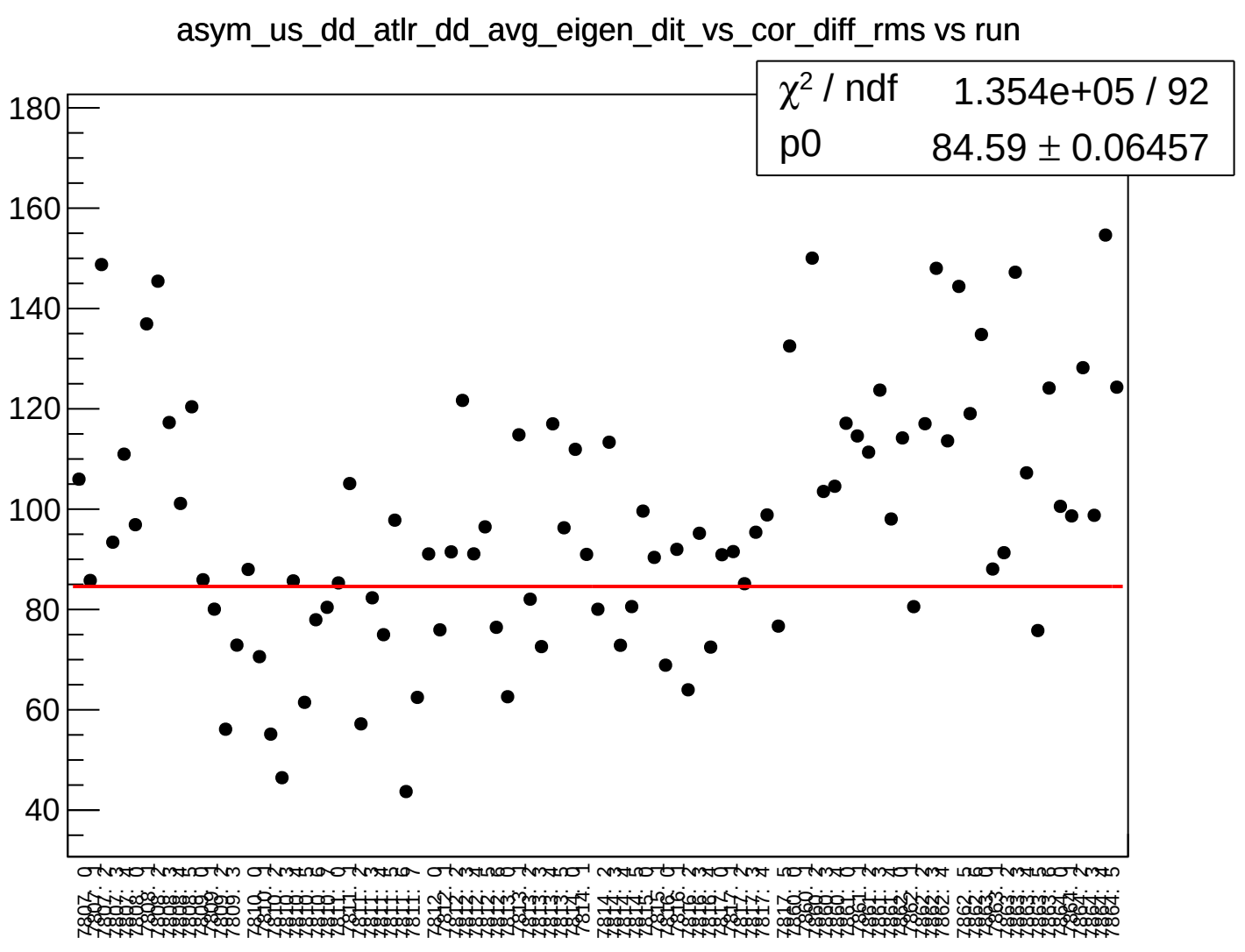

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 79.38 / 92
p0 −8.992e−06 ± 1.041e−05
pull
Entries 93
Mean 190.6
Std Dev 0

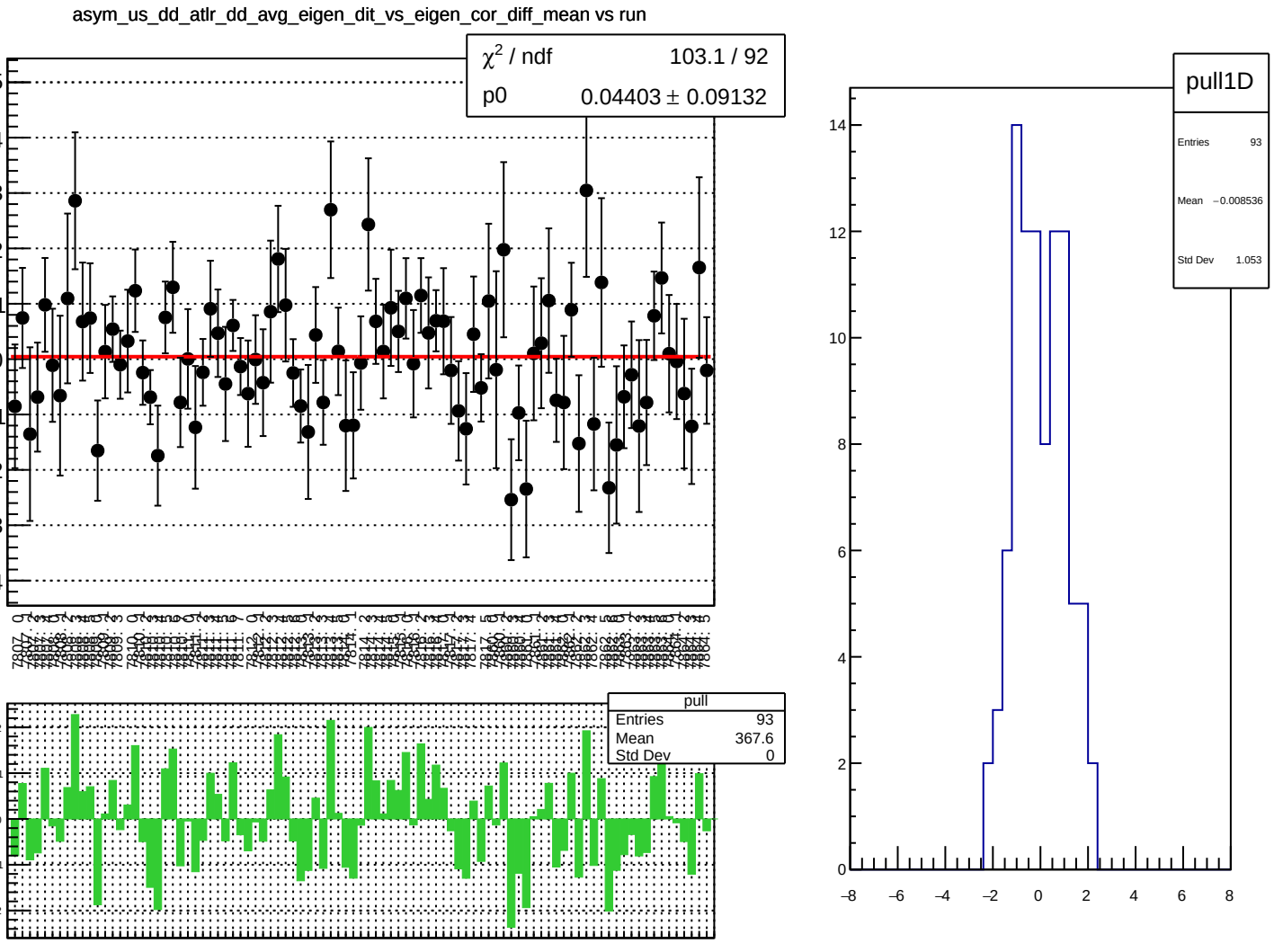

pull1D
Entries 93
Mean −0.007722
Std Dev 0.9239

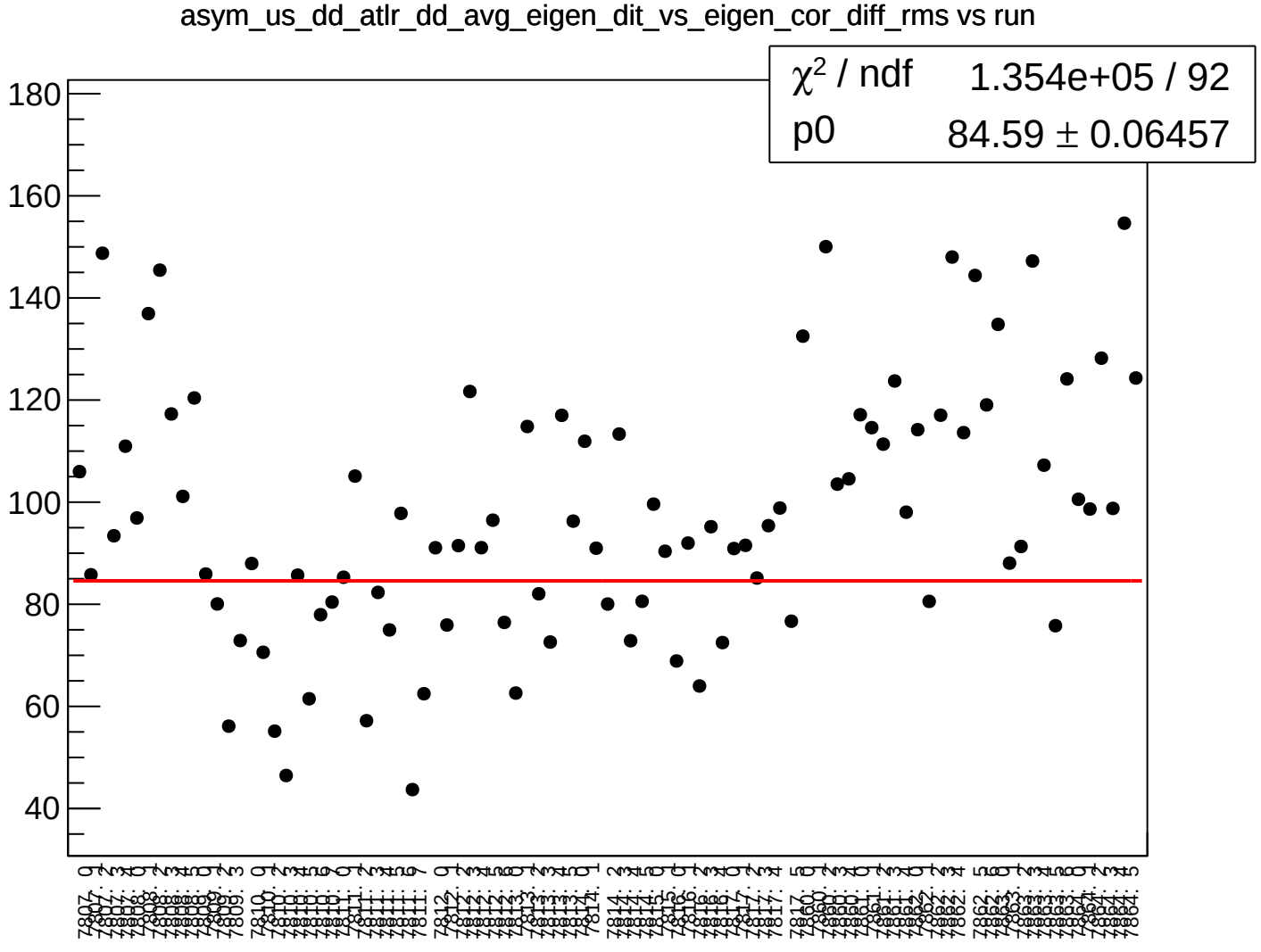

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8489 / 92
p0 0.009996 ± 7.363e−06
0.012
0.0115
0.011
0.0105
0.01
0.0095
0.009
0.0085

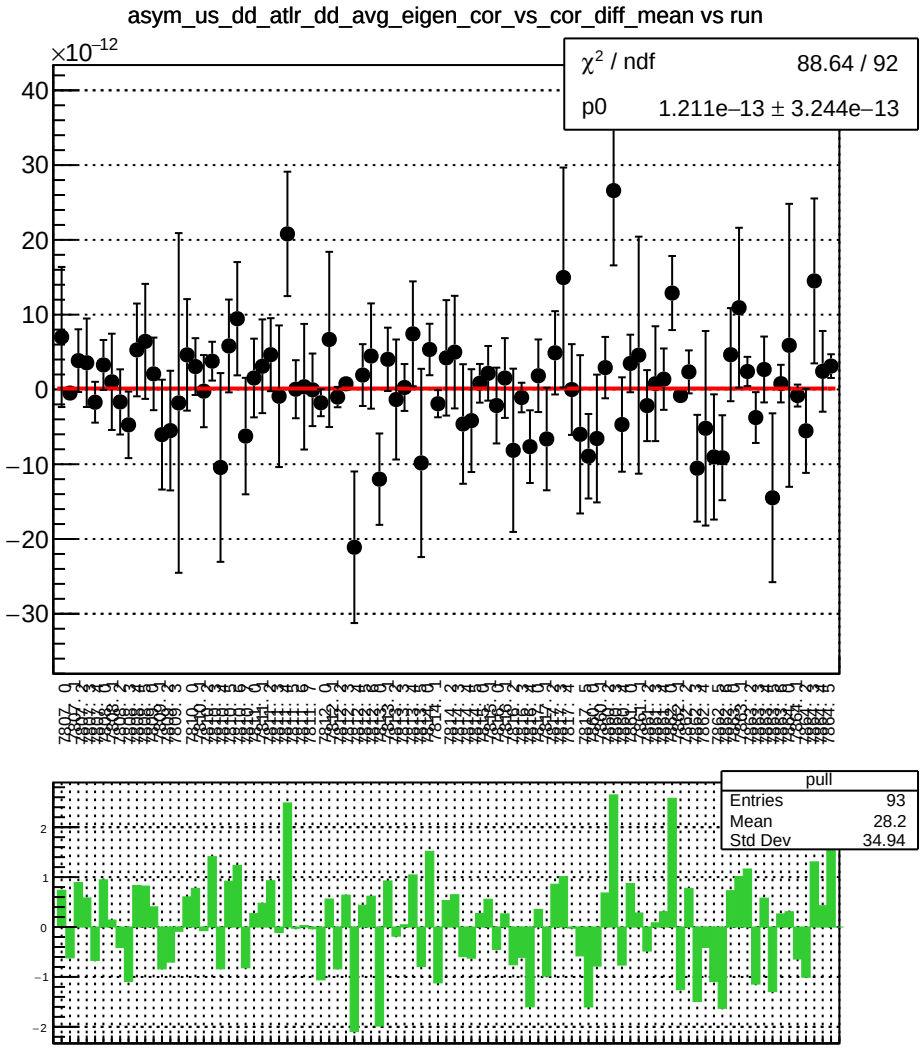

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 103.1 / 92
p0 0.04403 ± 0.09132
pull
Entries 93
Mean 367.6
Std Dev 0

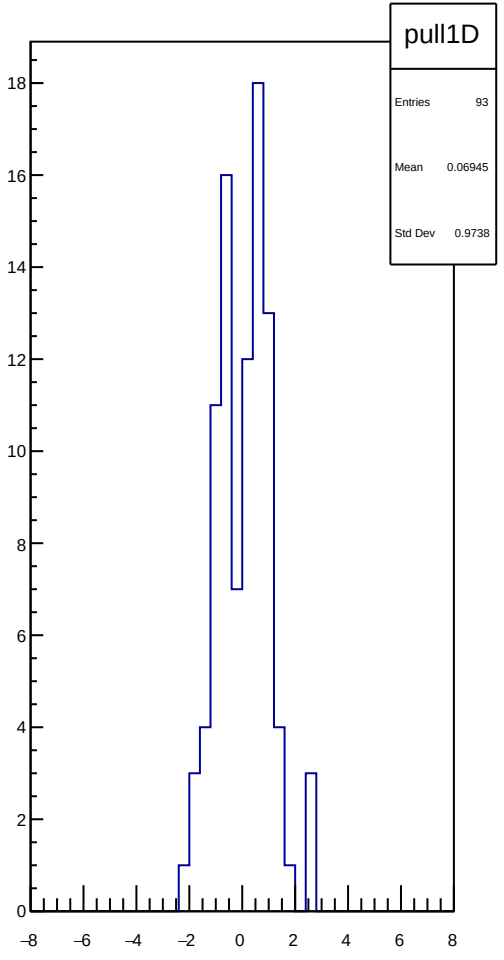

pull1D
Entries 93
Mean −0.008536
Std Dev 1.053

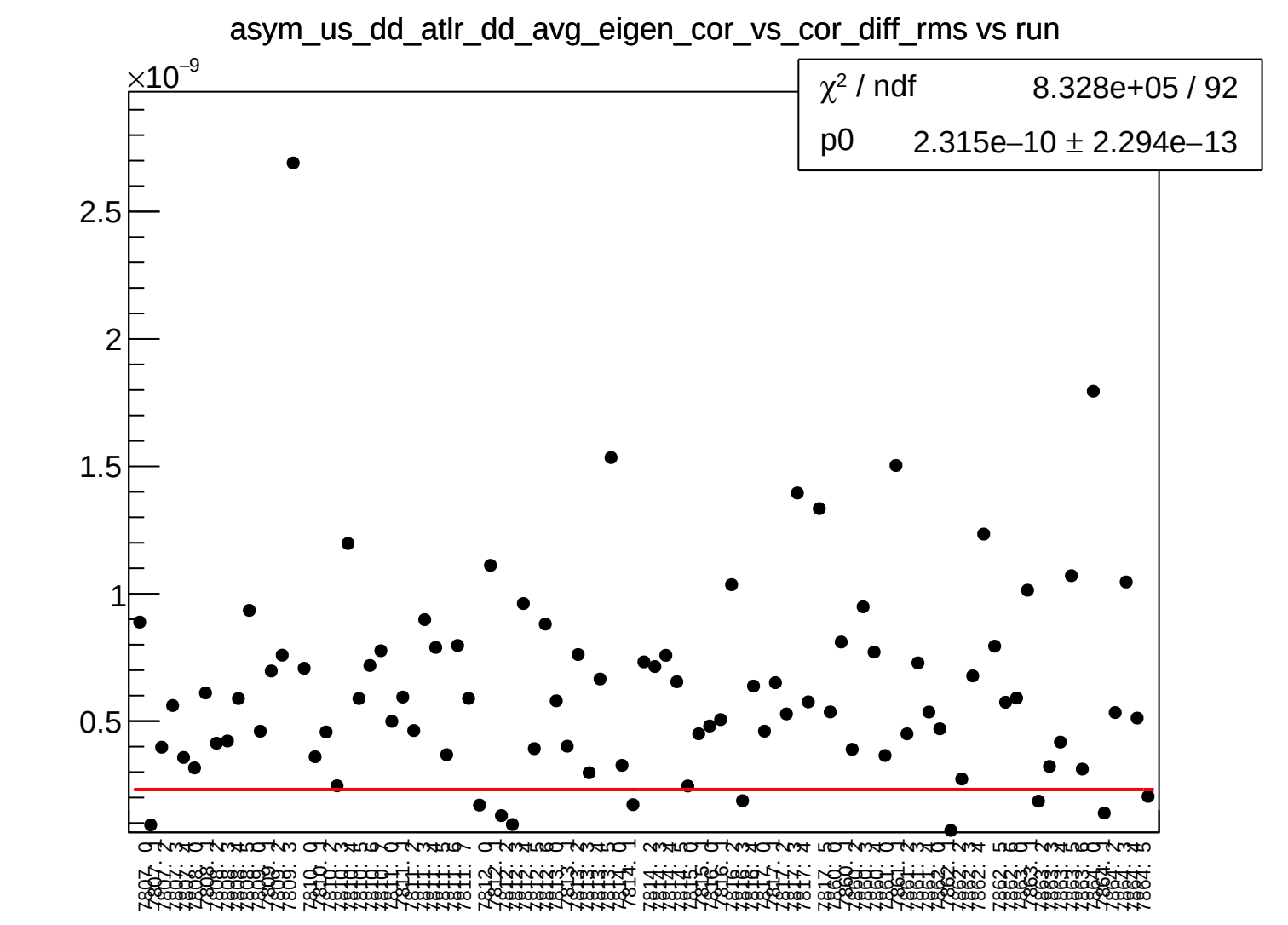

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.354e+05 / 92
p0 84.59 ± 0.06457
180
160
140
120
100
80
60
40

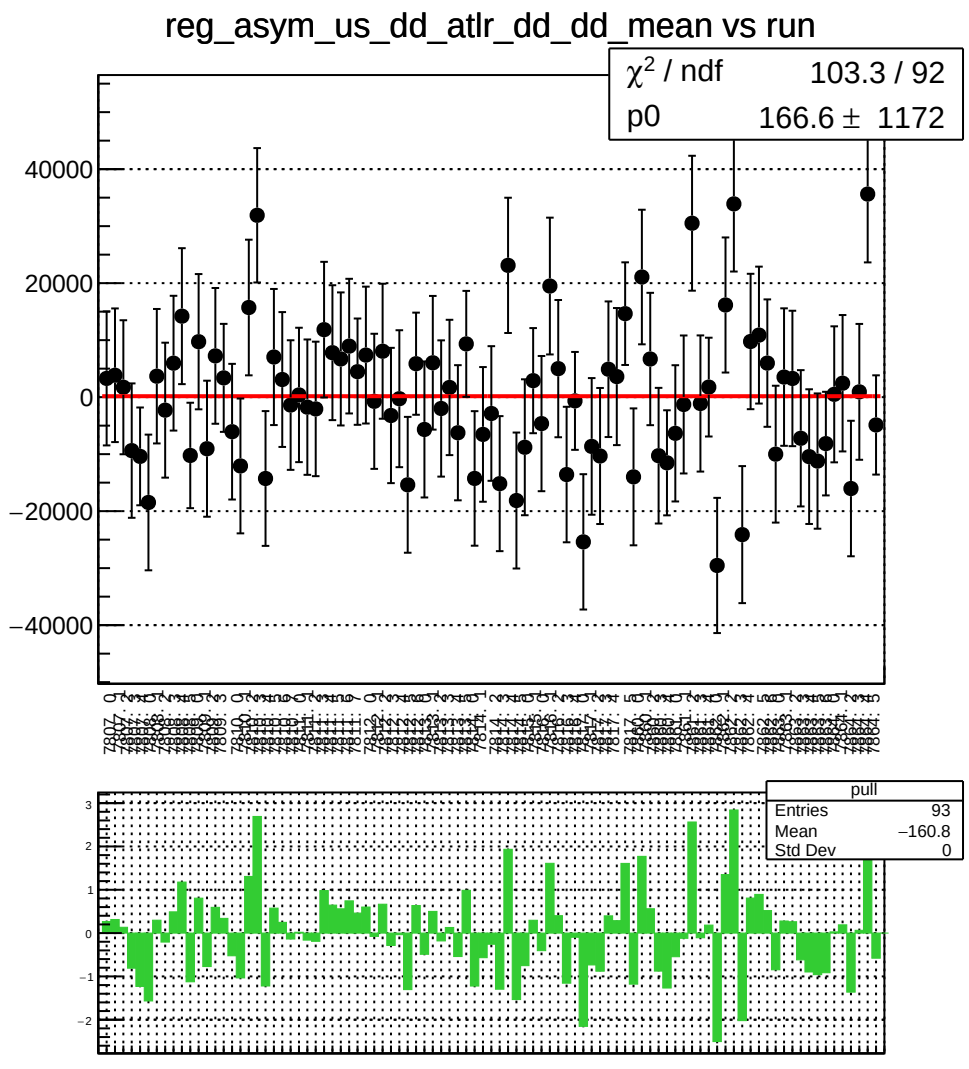

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.1 / 92
p0 0.04403 ± 0.09132
pull
Entries 93
Mean 367.6
Std Dev 0
pull1D
Entries 93
Mean −0.008536
Std Dev 1.053

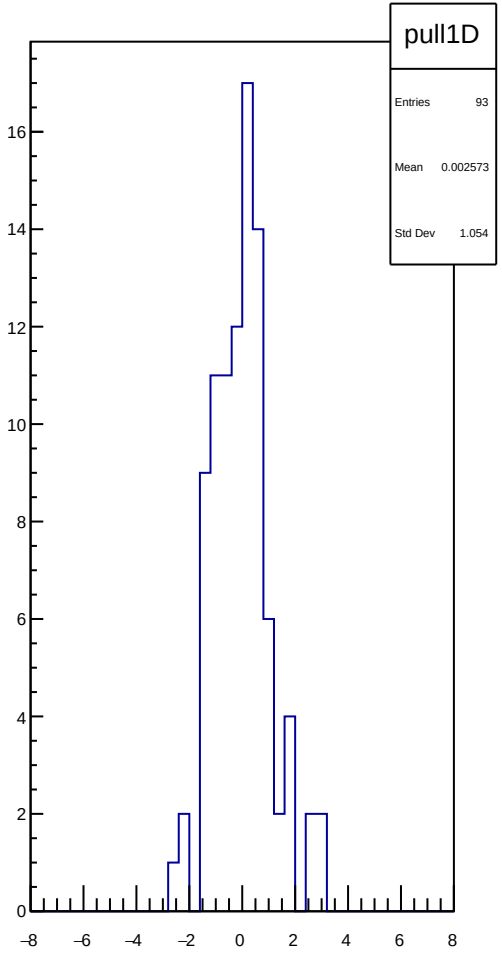

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.354e+05 / 92
p0 84.59 ± 0.06457
180
160
140
120
100
80
60
40

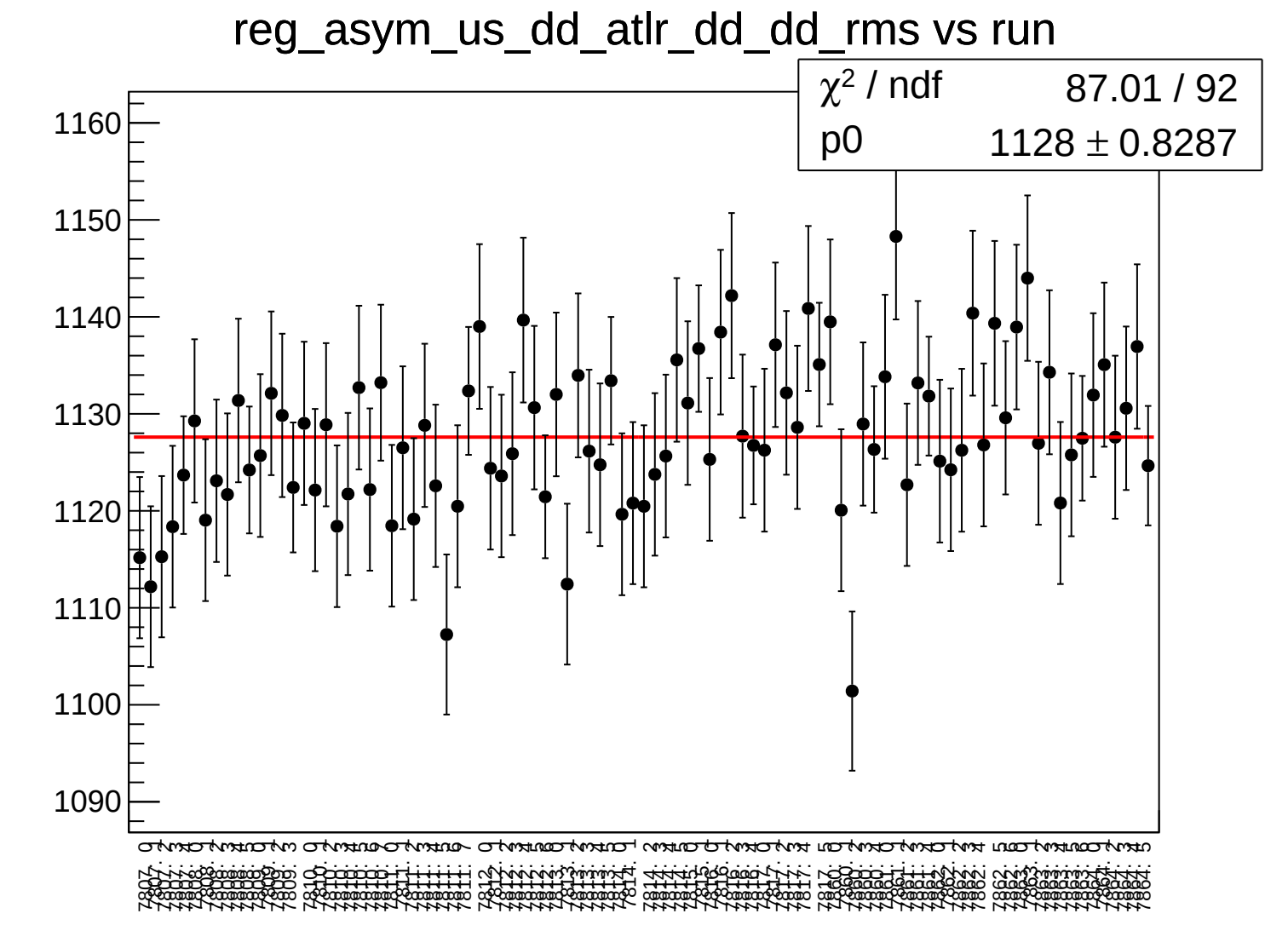

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.64 / 92
p0 1.211e−13 ± 3.244e−13
pull
Entries 93
Mean 28.2
Std Dev 34.94

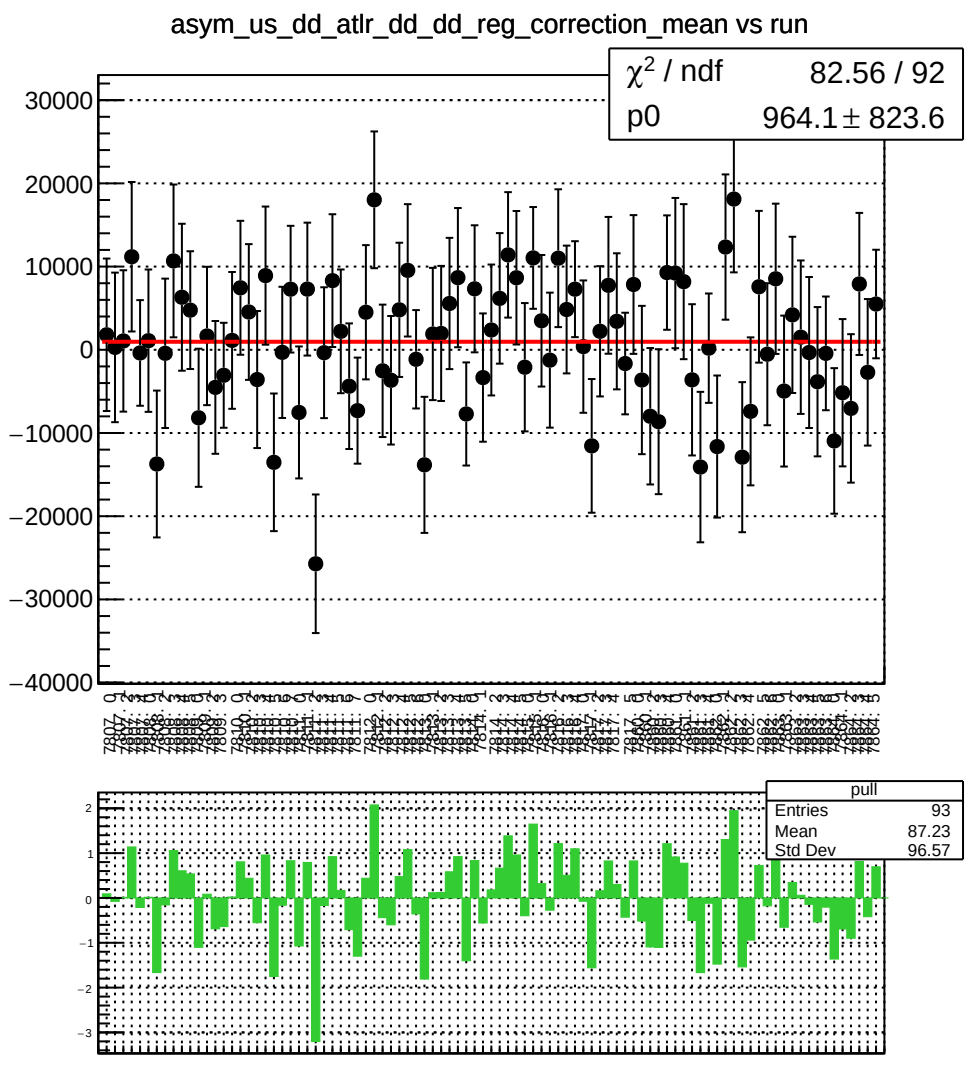

pull1D
Entries 93
Mean 0.06945
Std Dev 0.9738

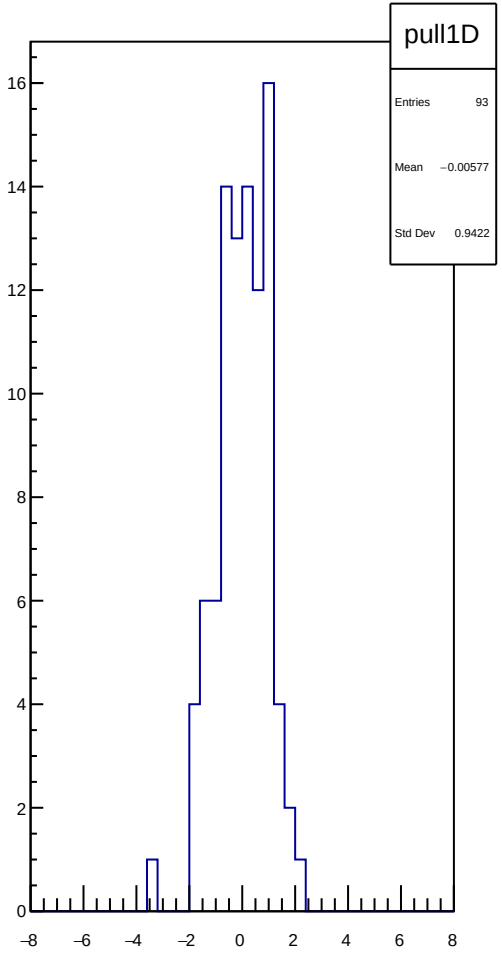

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.328e+05 / 92
p0 2.315e−10 ± 2.294e−13
2.5
2
1.5
1
0.5

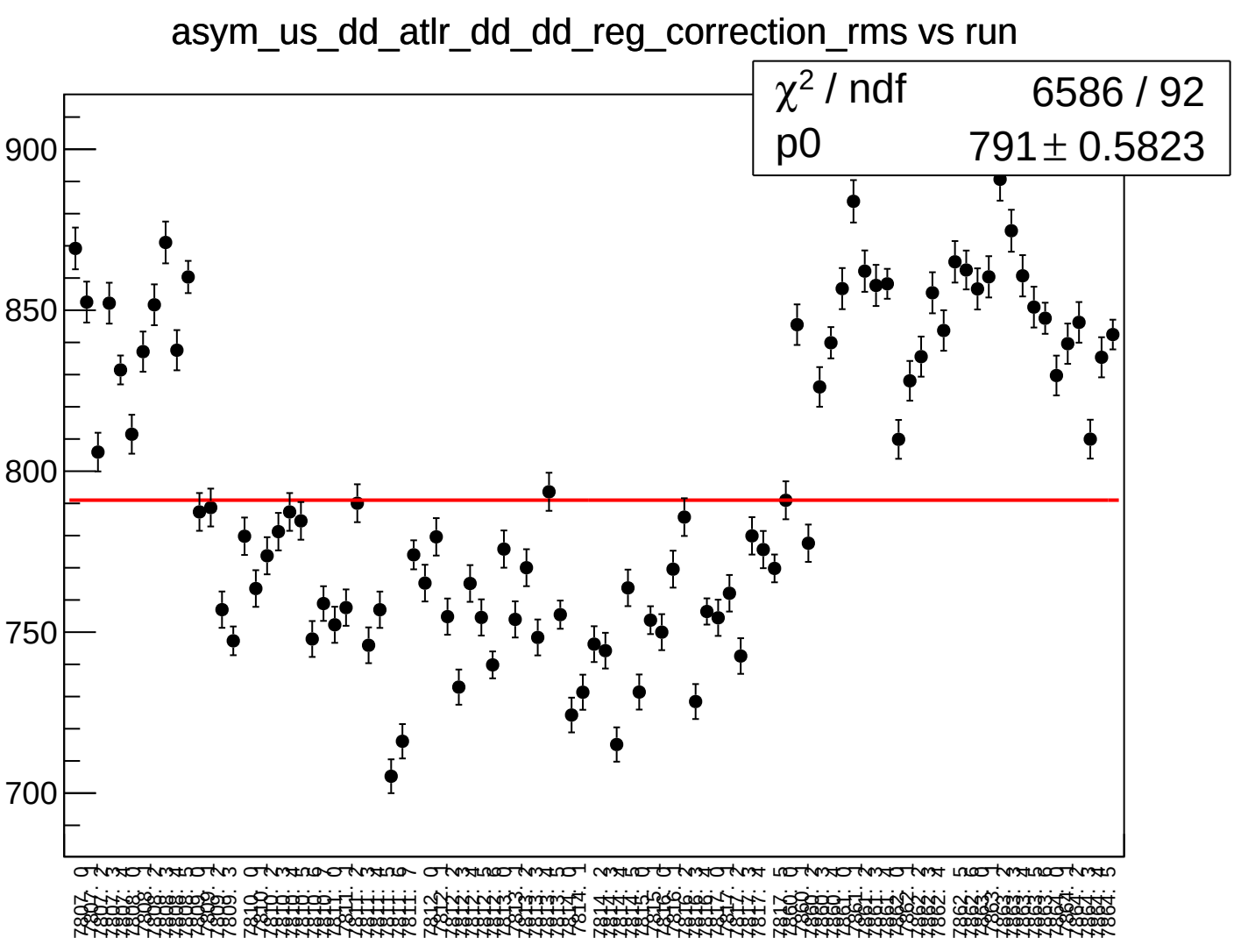

reg_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 103.3 / 92
p0 166.6 ± 1172
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −160.8
Std Dev 0
3
2
1
0
−1
−2

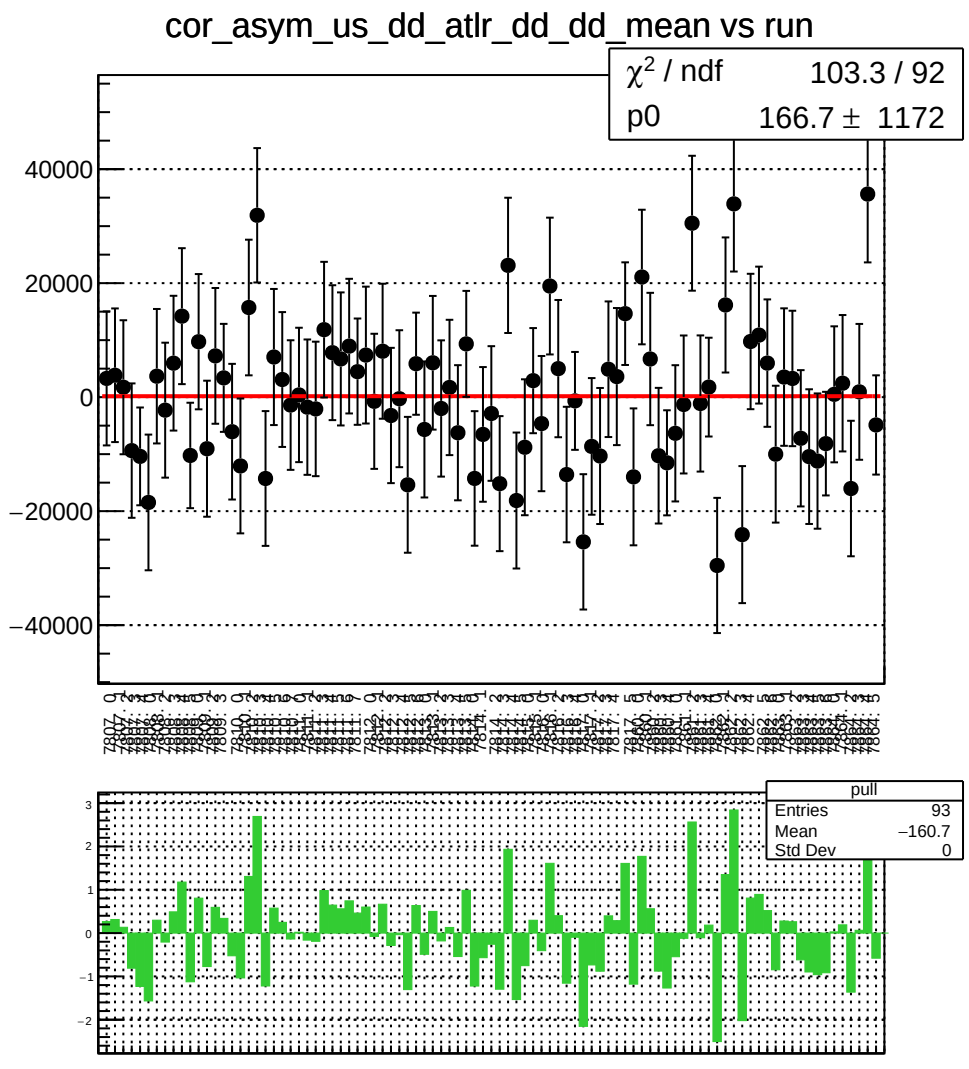

pull1D
Entries 93
Mean 0.002573
Std Dev 1.054
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

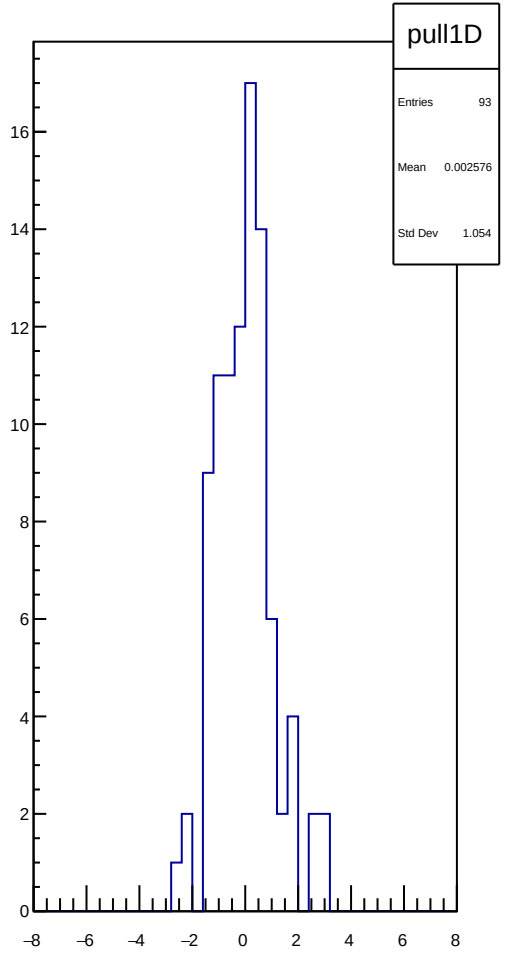

reg_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 87.01 / 92
p0 1128 ± 0.8287
1160
1150
1140
1130
1120
1110
1100
1090


asym_us_dd_atlr_dd_dd_reg_correction_mean vs run
χ² / ndf 82.56 / 92
p0 964.1 ± 823.6
pull
Entries 93
Mean 87.23
Std Dev 96.57


pull1D
Entries 93
Mean −0.00577
Std Dev 0.9422


asym_us_dd_atlr_dd_dd_reg_correction_rms vs run
χ² / ndf 6586 / 92
p0 791 ± 0.5823
900
850
800
750
700


cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 103.3 / 92
p0 166.7 ± 1172
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −160.7
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 93
Mean 0.002576
Std Dev 1.054
16
14
12
10
8
6
4
2
0
−8
−6
−4
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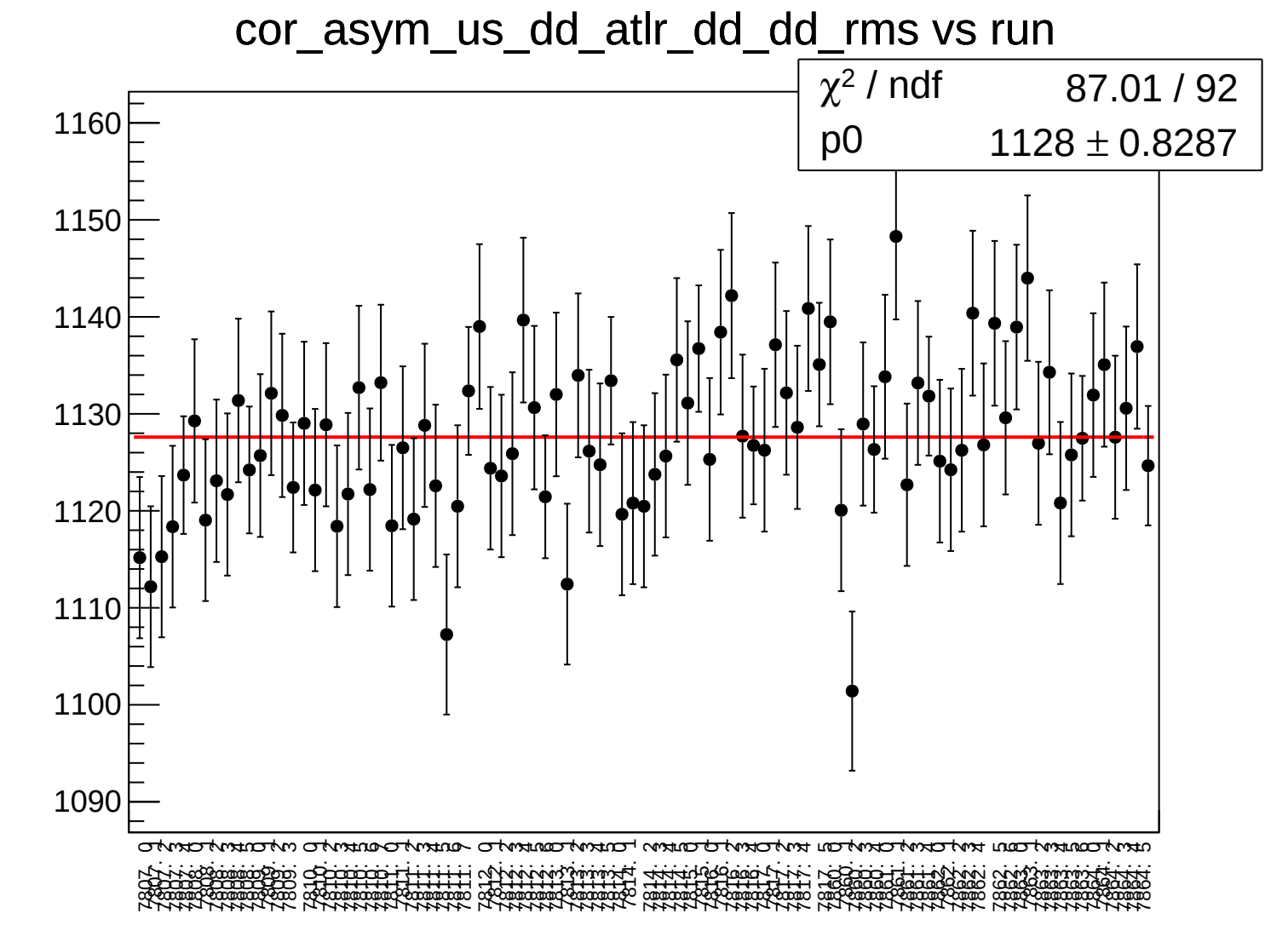
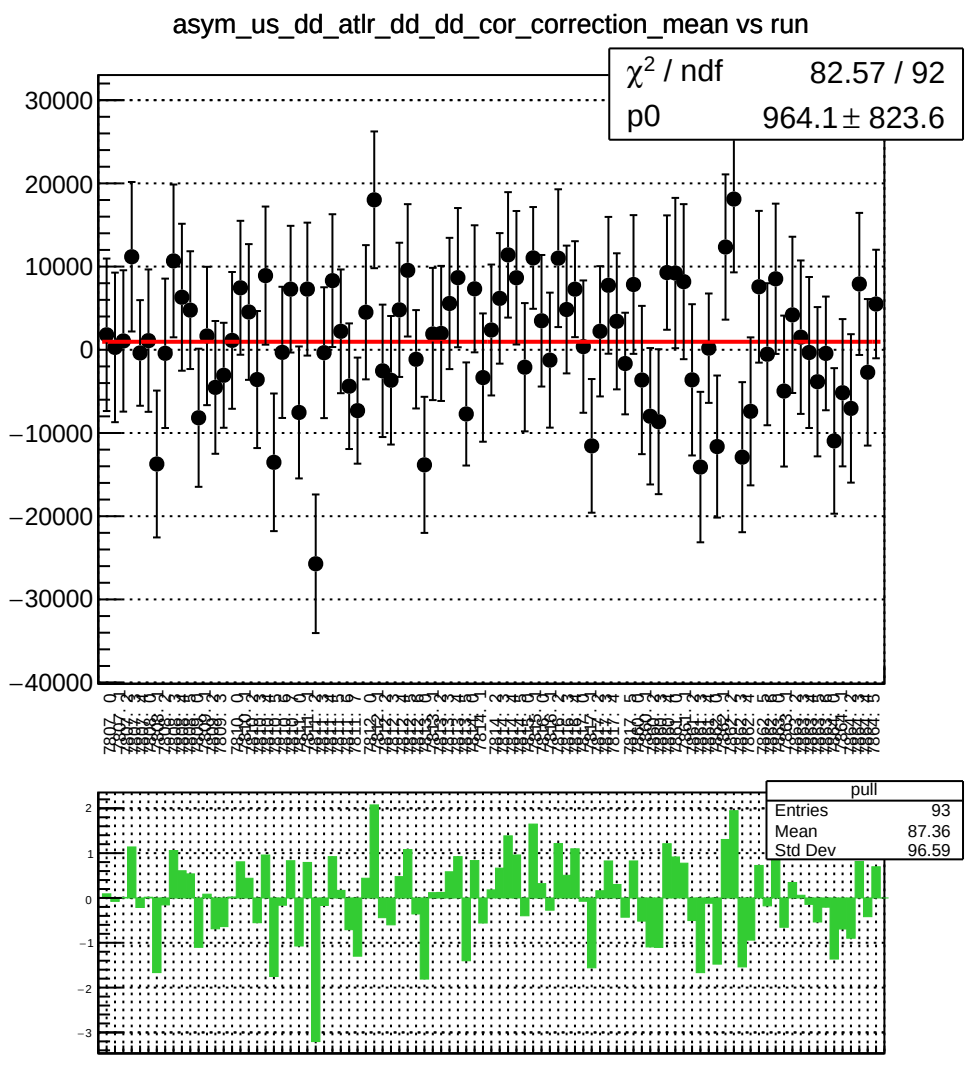
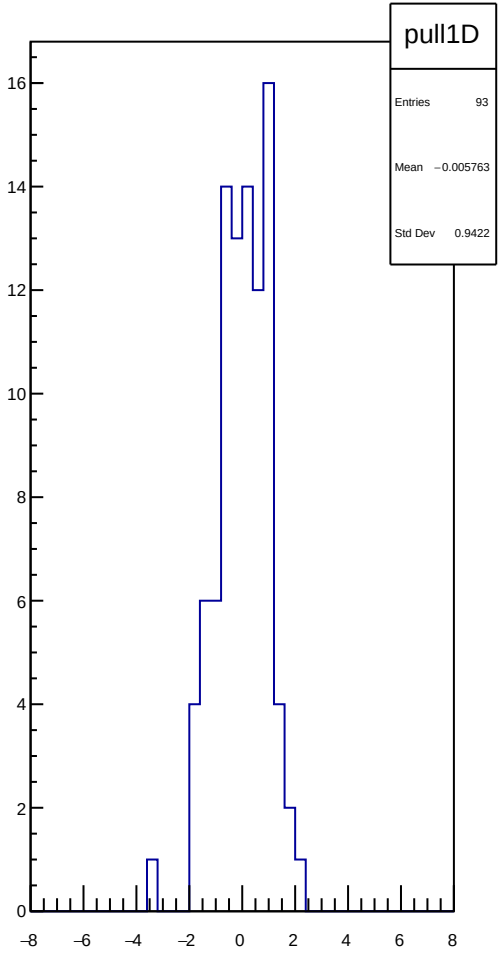
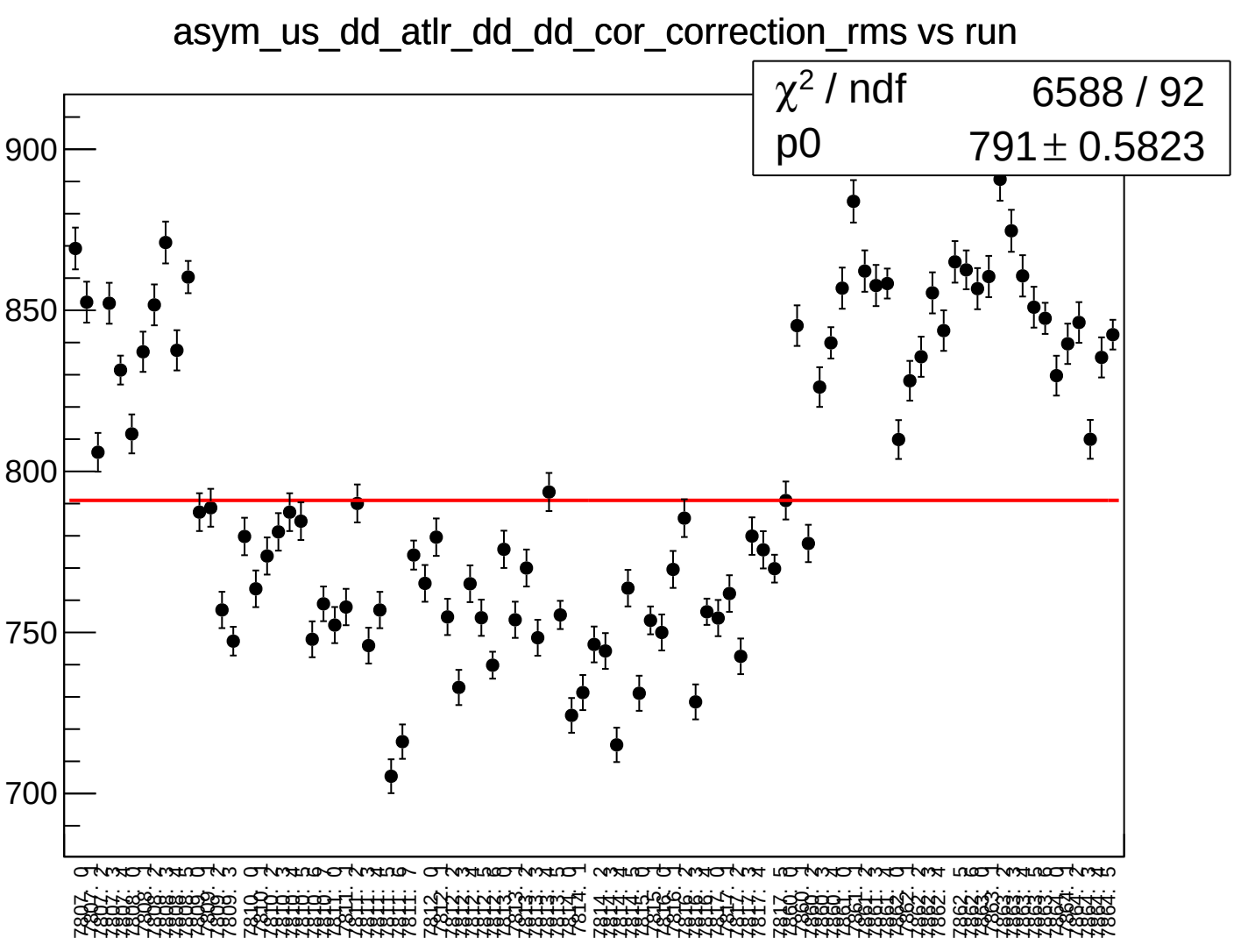
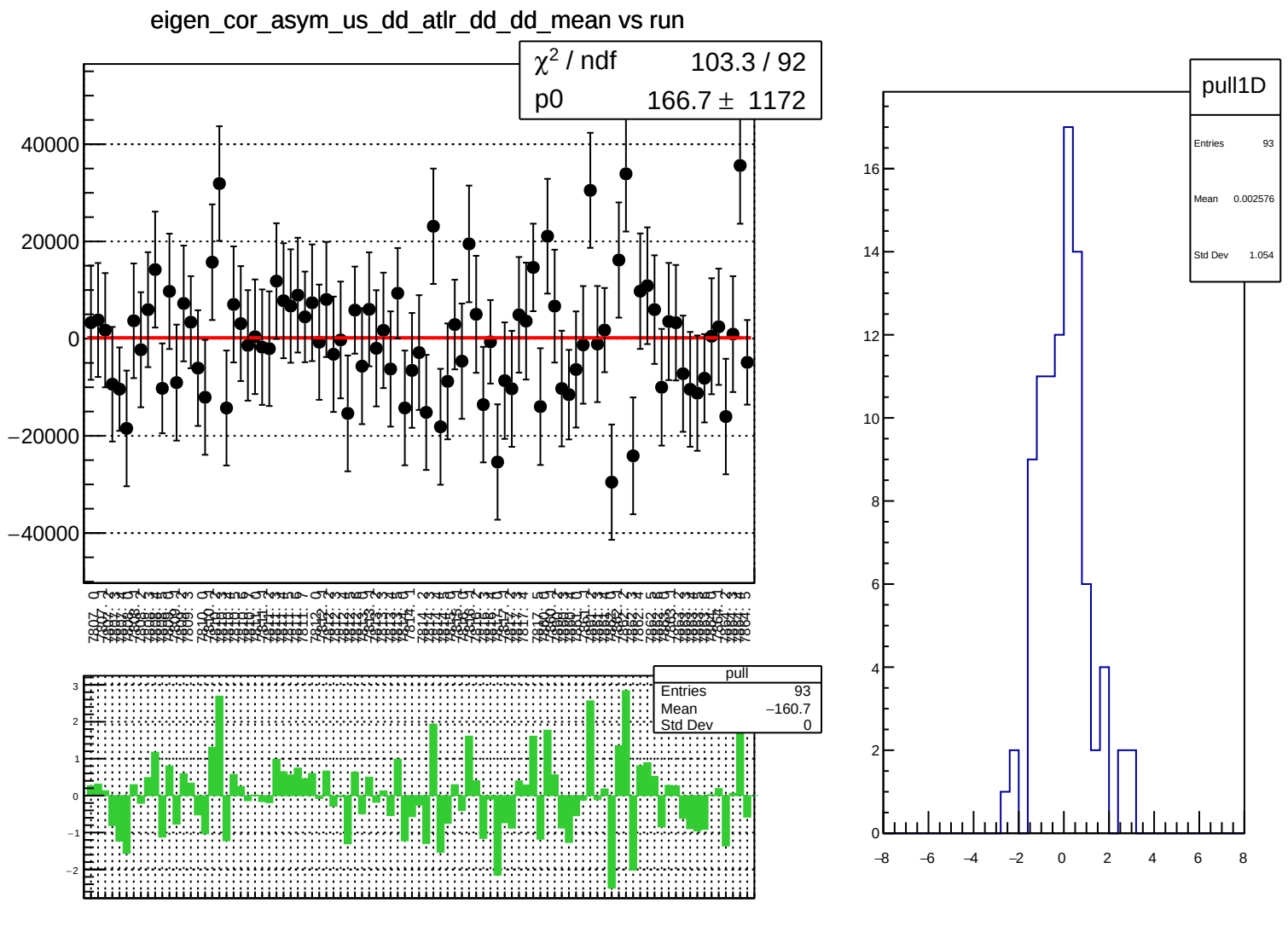
0
2
4
6
8

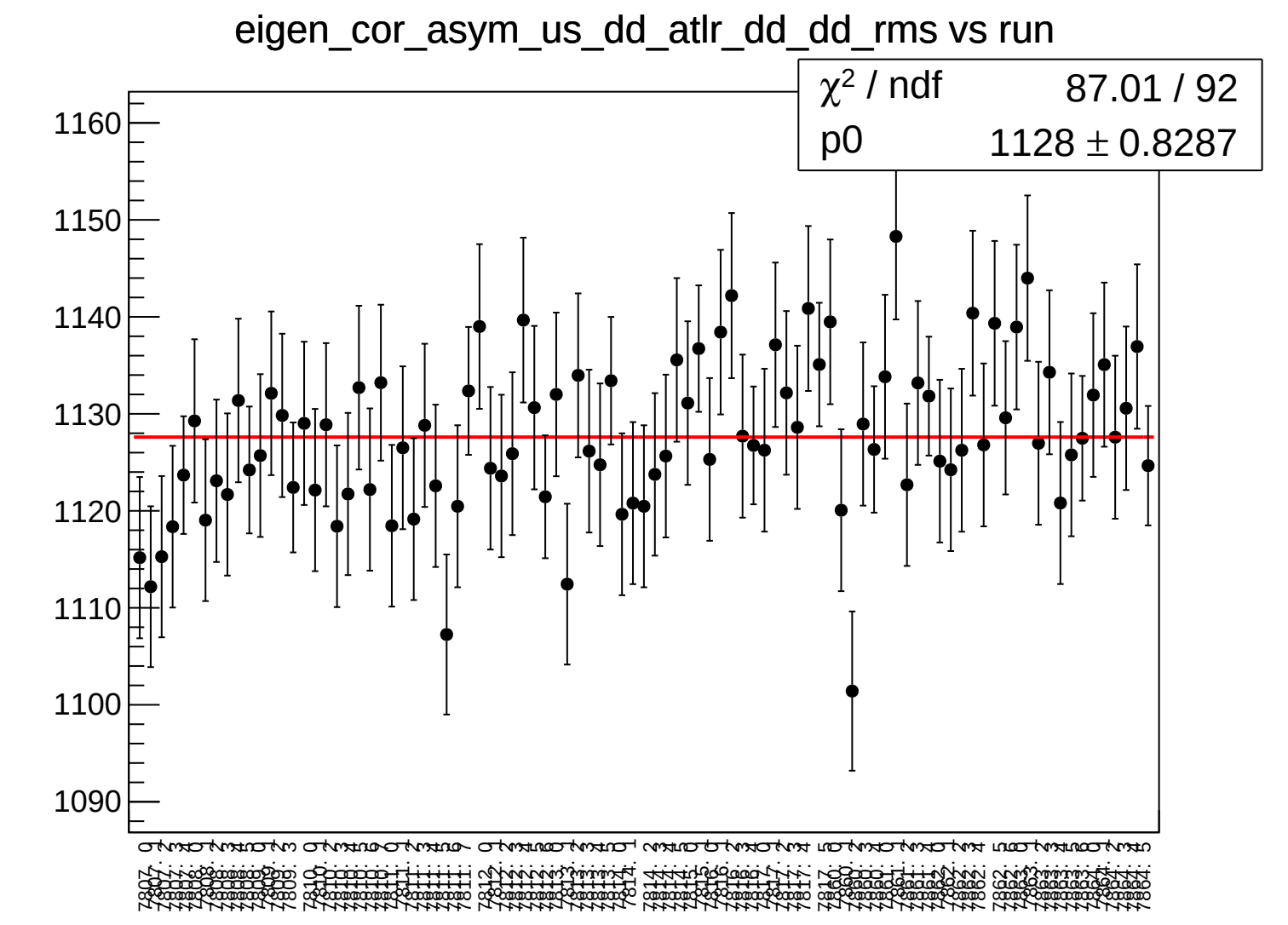

cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 87.01 / 92
p0 1128 ± 0.8287
1160
1150
1140
1130
1120
1110
1100
1090

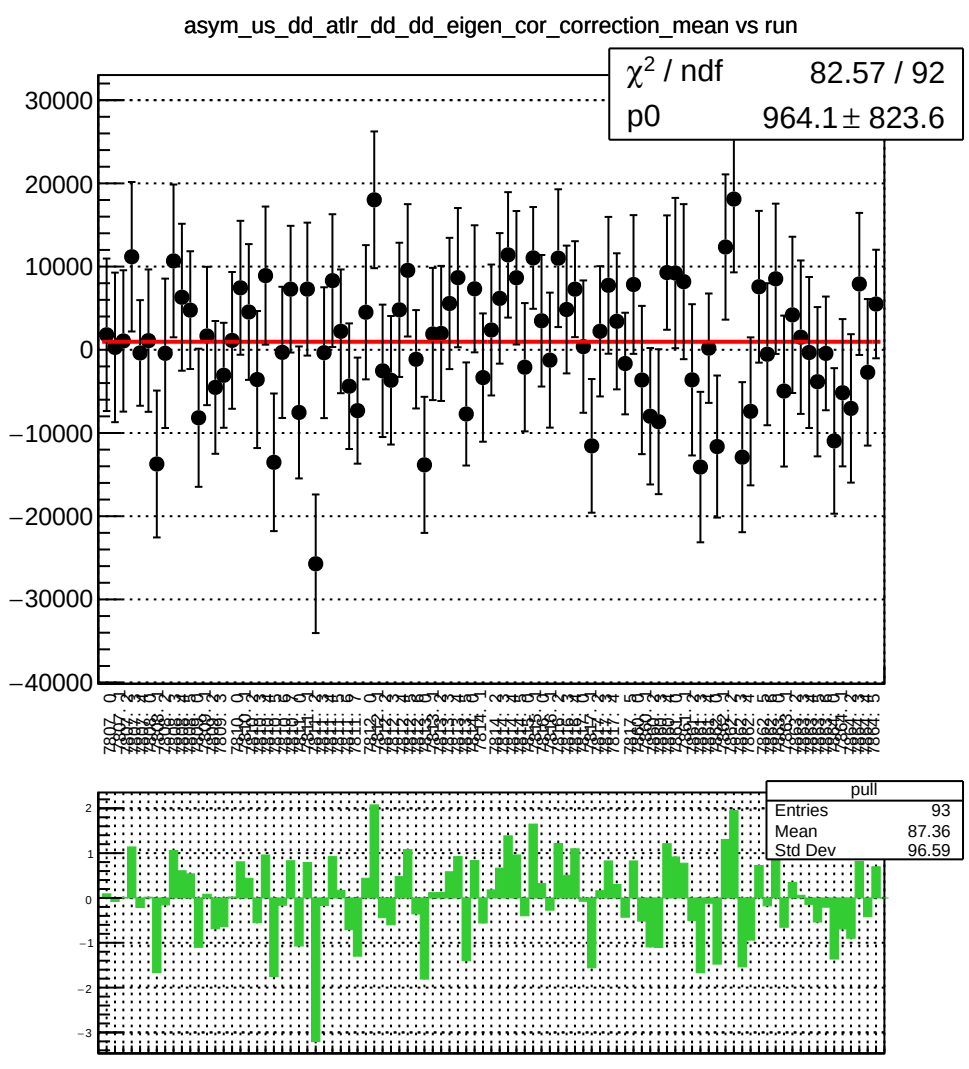

asym_us_dd_atlr_dd_dd_cor_correction_mean vs run
χ² / ndf 82.57 / 92
p0 964.1 ± 823.6
pull
Entries 93
Mean 87.36
Std Dev 96.59

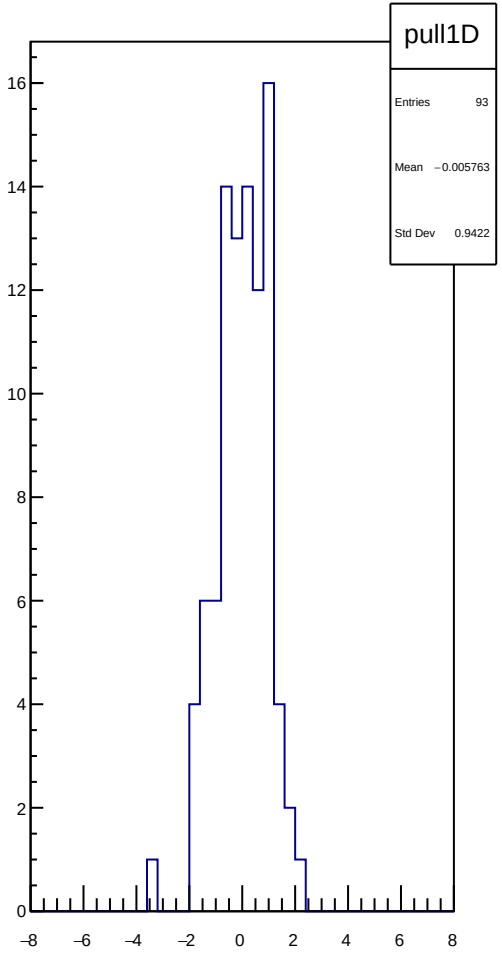

pull1D
Entries 93
Mean −0.005763
Std Dev 0.9422


asym_us_dd_atlr_dd_dd_cor_correction_rms vs run
χ² / ndf 6588 / 92
p0 791 ± 0.5823
900
850
800
750
700


eigen_cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 103.3 / 92
p0 166.7 ± 1172
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −160.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.002576
Std Dev 1.054
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 87.01 / 92
p0 1128 ± 0.8287
1160
1150
1140
1130
1120
1110
1100
1090


asym_us_dd_atlr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 82.57 / 92
p0 964.1 ± 823.6
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean 87.36
Std Dev 96.59
2
1
0
−1
−2
−3


pull1D
Entries 93
Mean −0.005763
Std Dev 0.9422
16
14
12
10
8
6
4
2
0
−8
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−4
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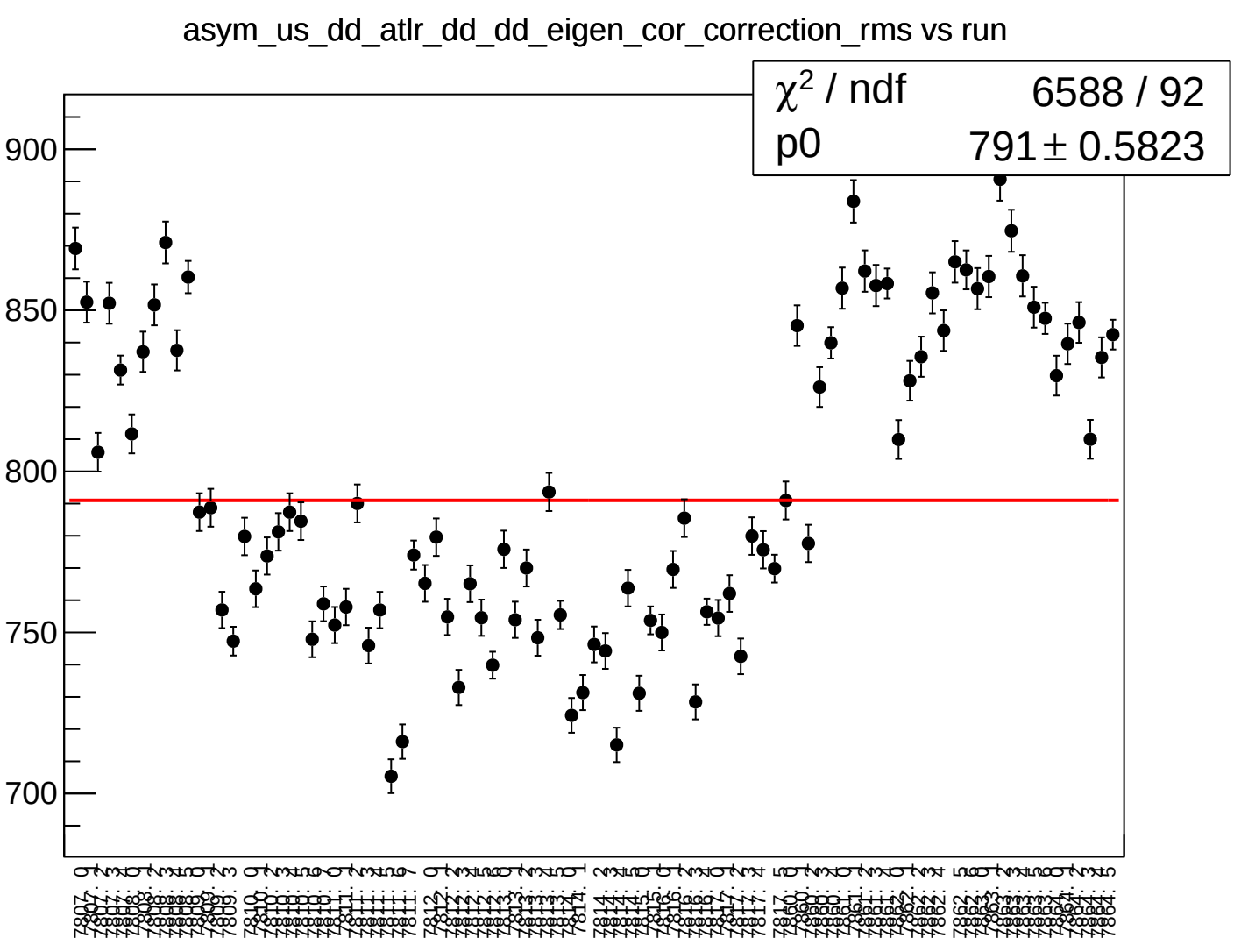
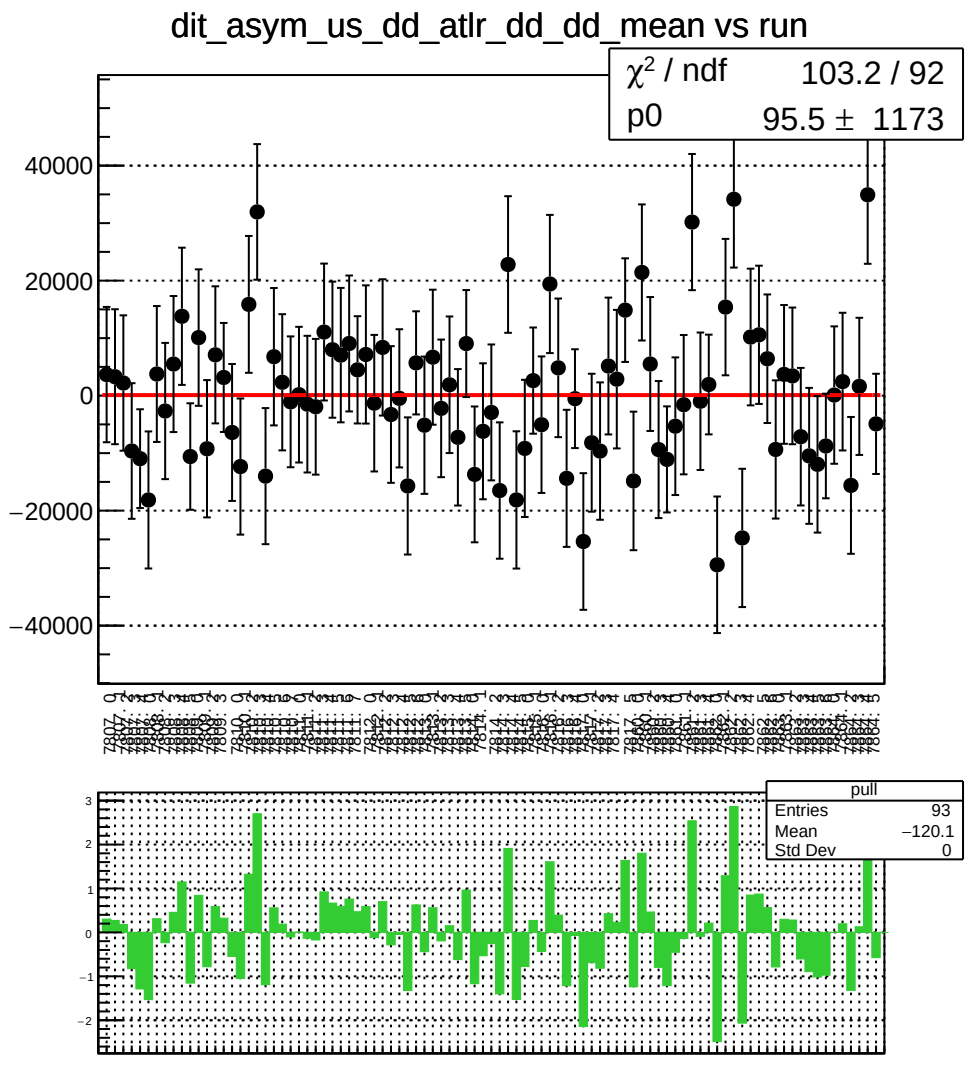
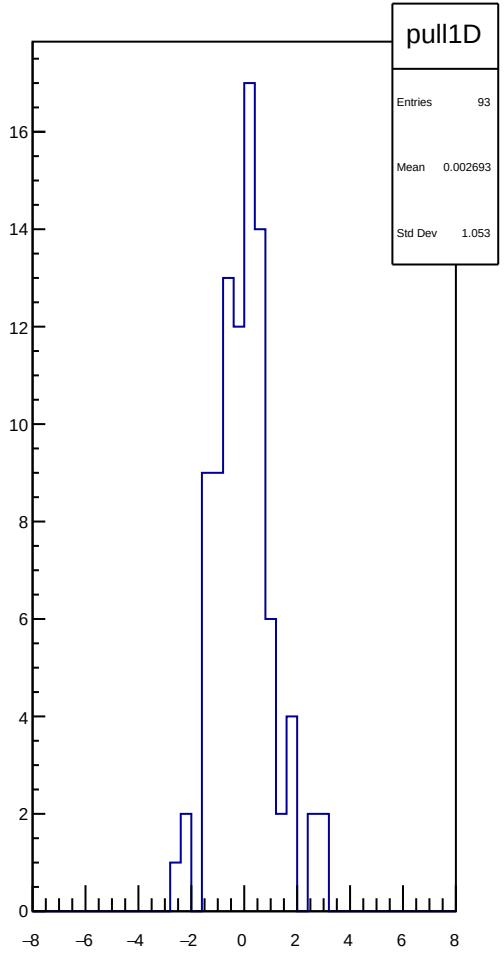
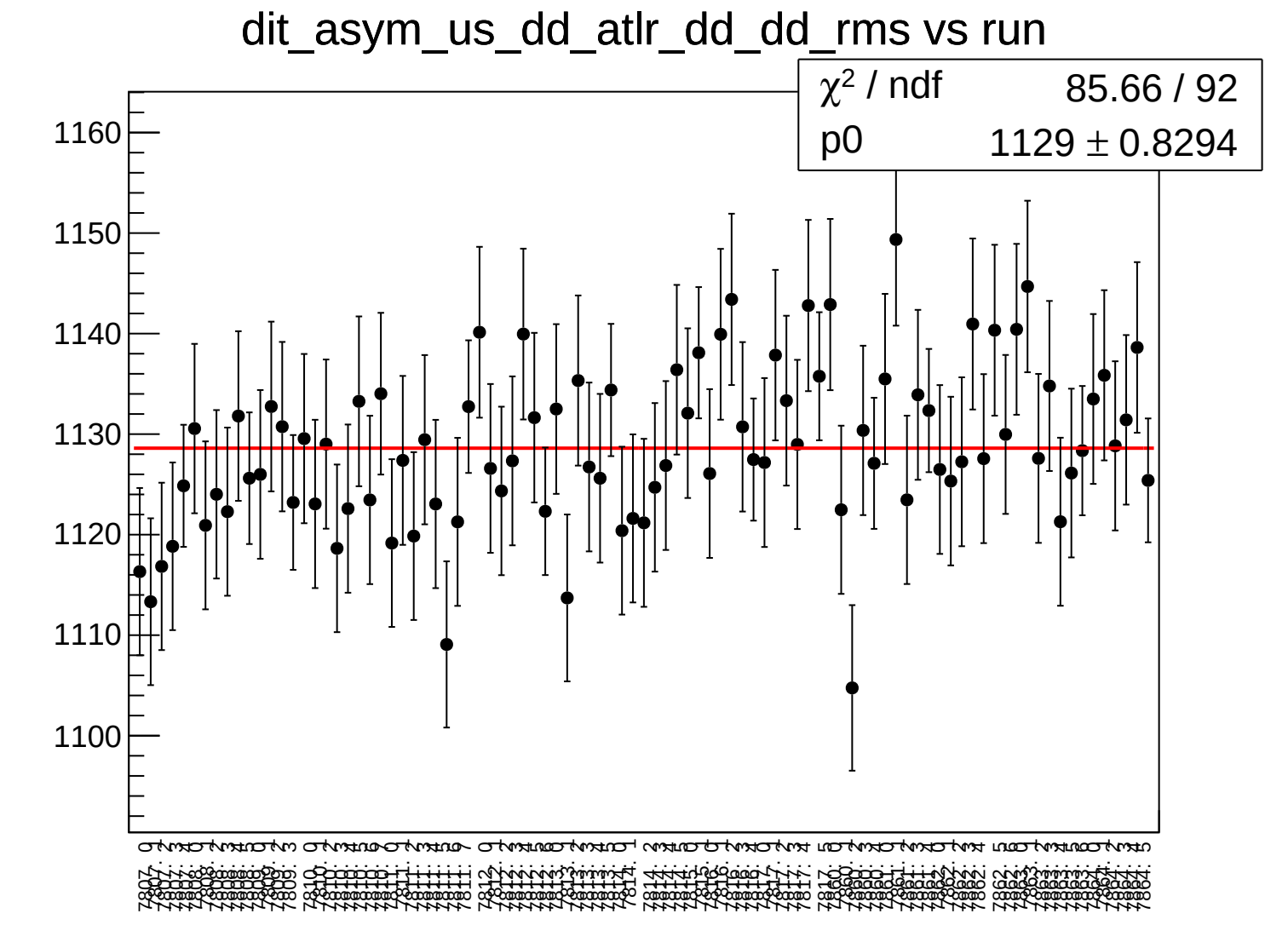
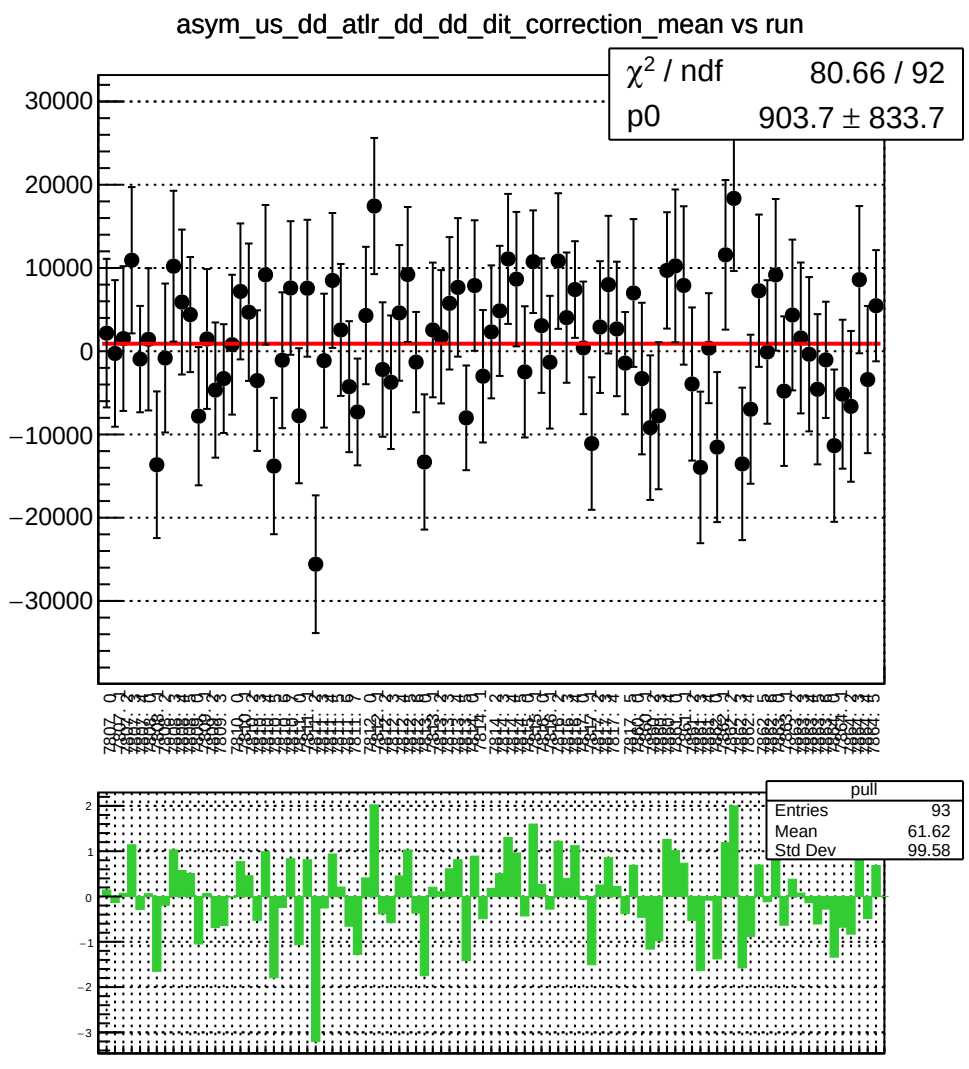
2
4
6
8

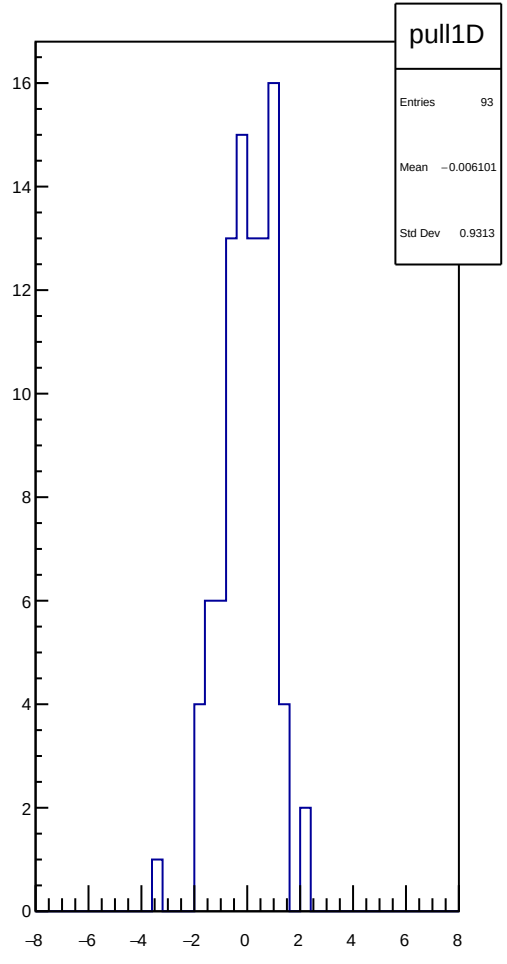

asym_us_dd_atlr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 6588 / 92
p0 791 ± 0.5823
900
850
800
750
700

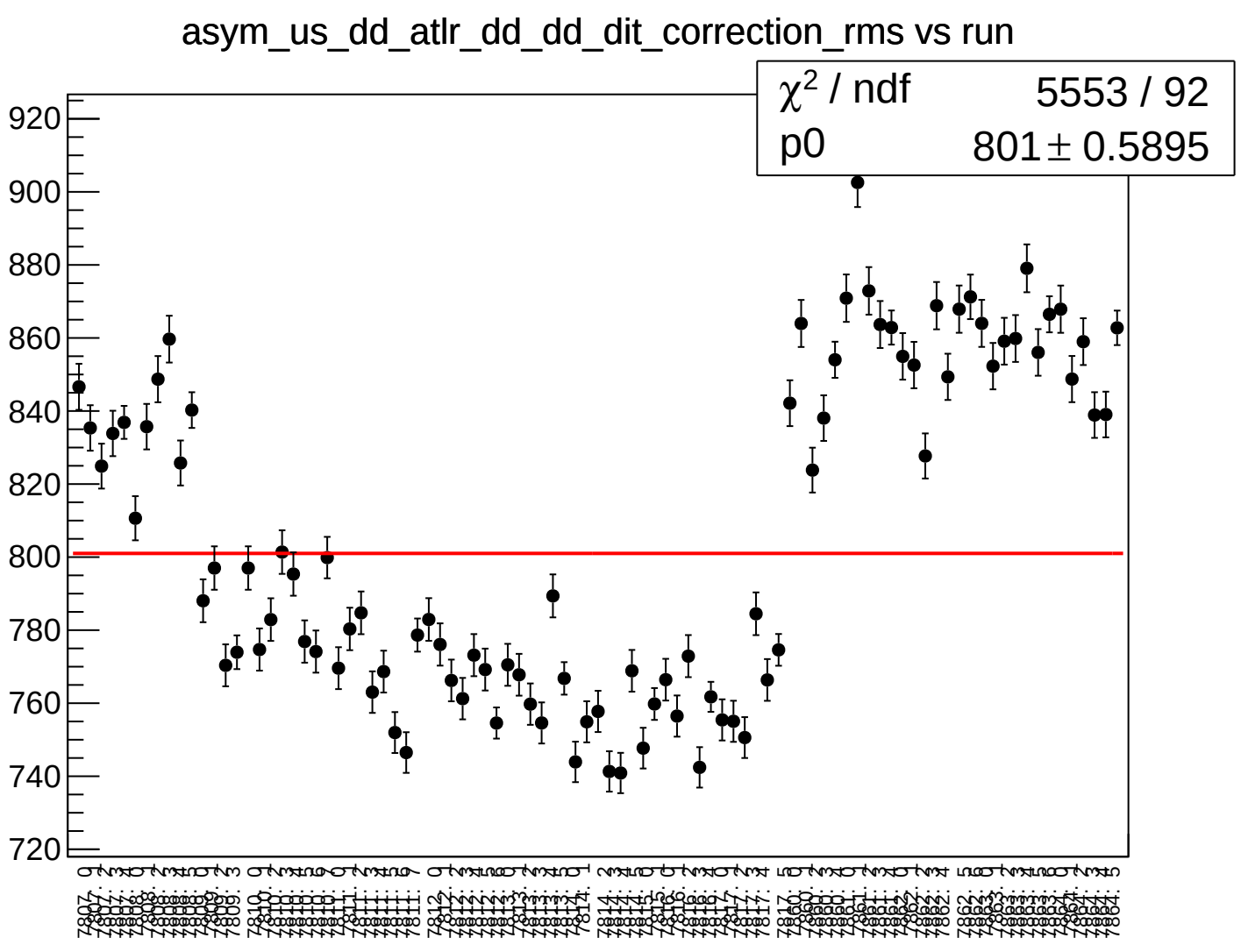

dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 103.2 / 92
p0 95.5 ± 1173
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −120.1
Std Dev 0
3
2
1
0
−1
−2

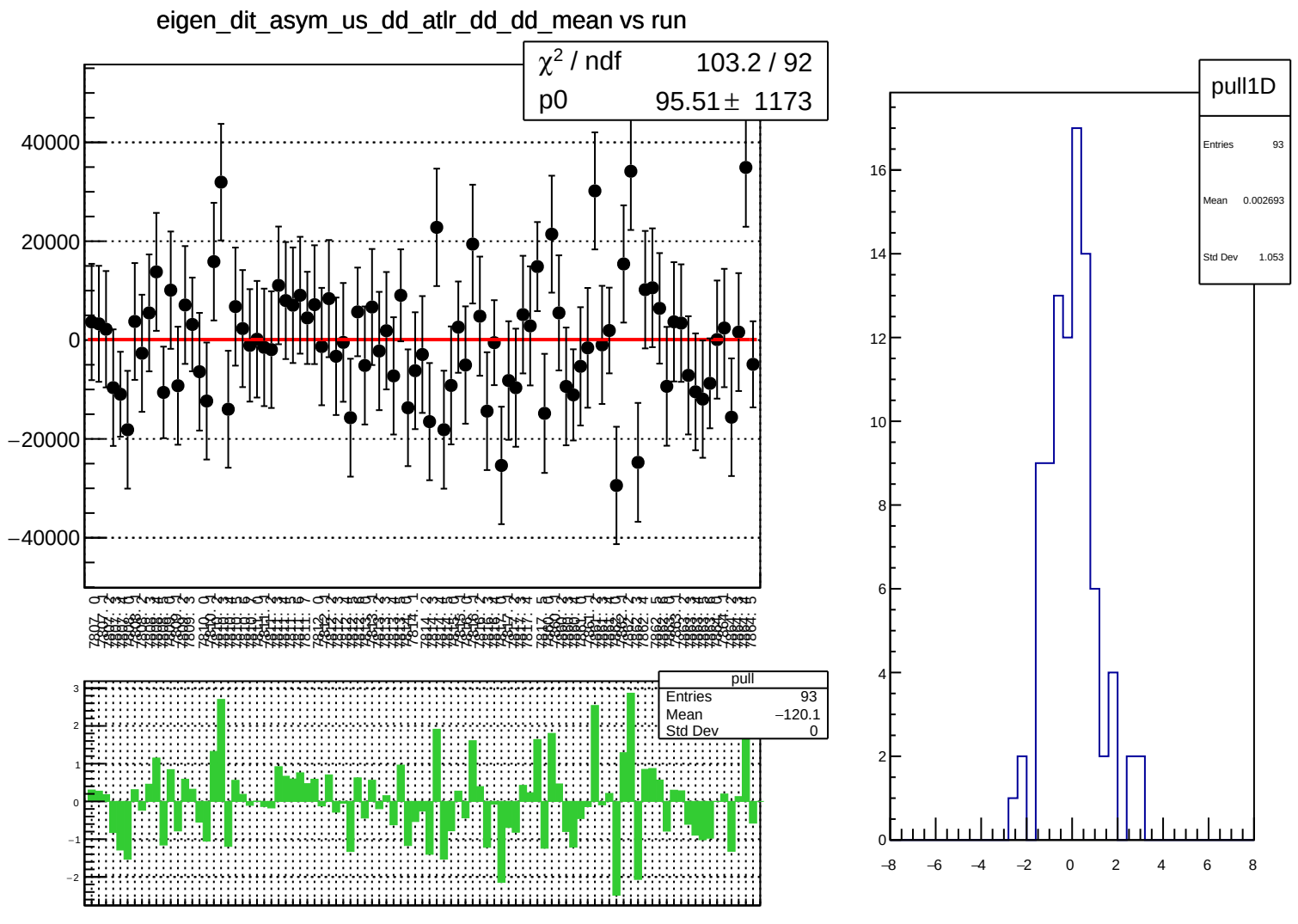

pull1D
Entries 93
Mean 0.002693
Std Dev 1.053
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

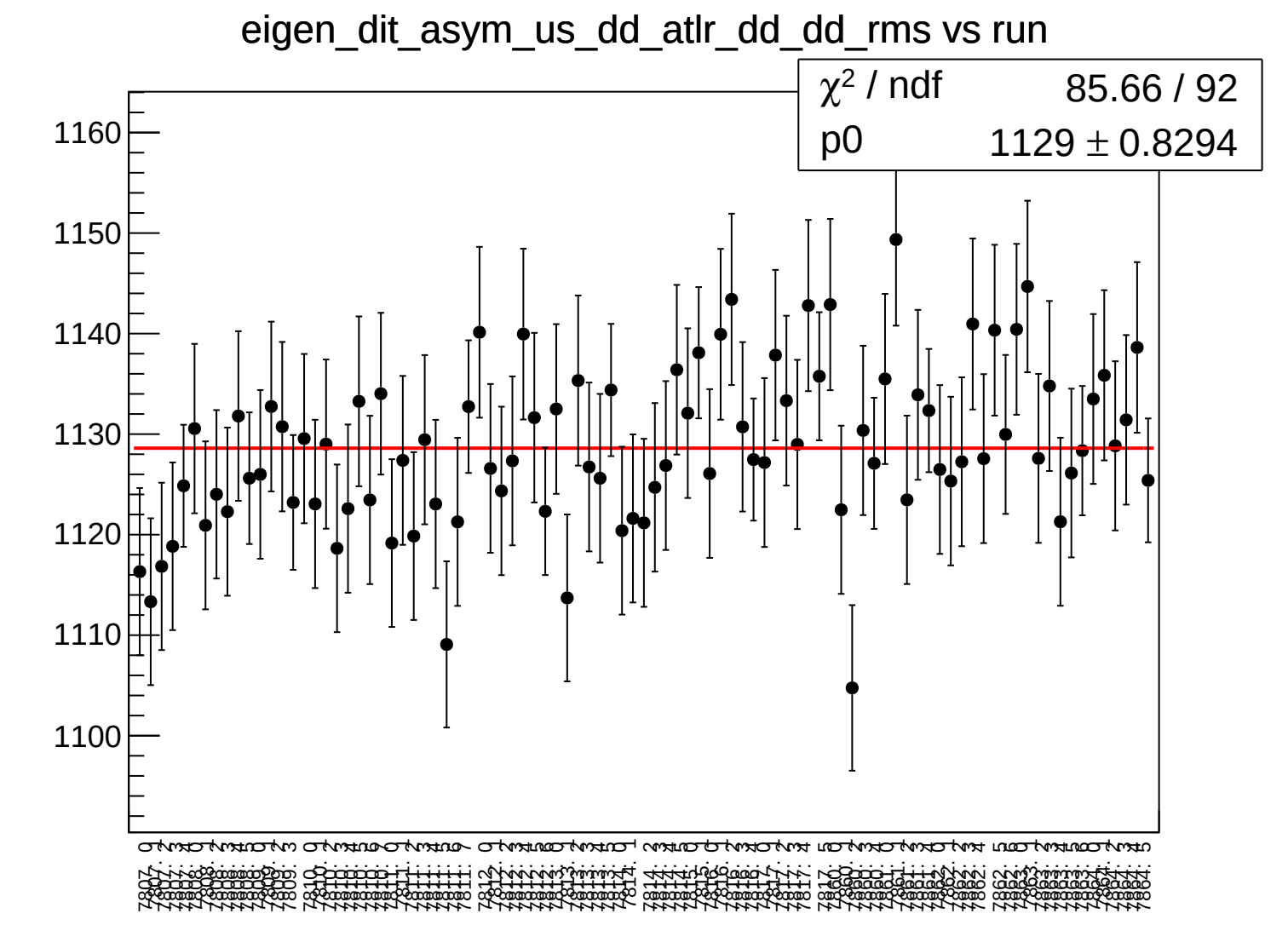

dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 85.66 / 92
p0 1129 ± 0.8294
1160
1150
1140
1130
1120
1110
1100

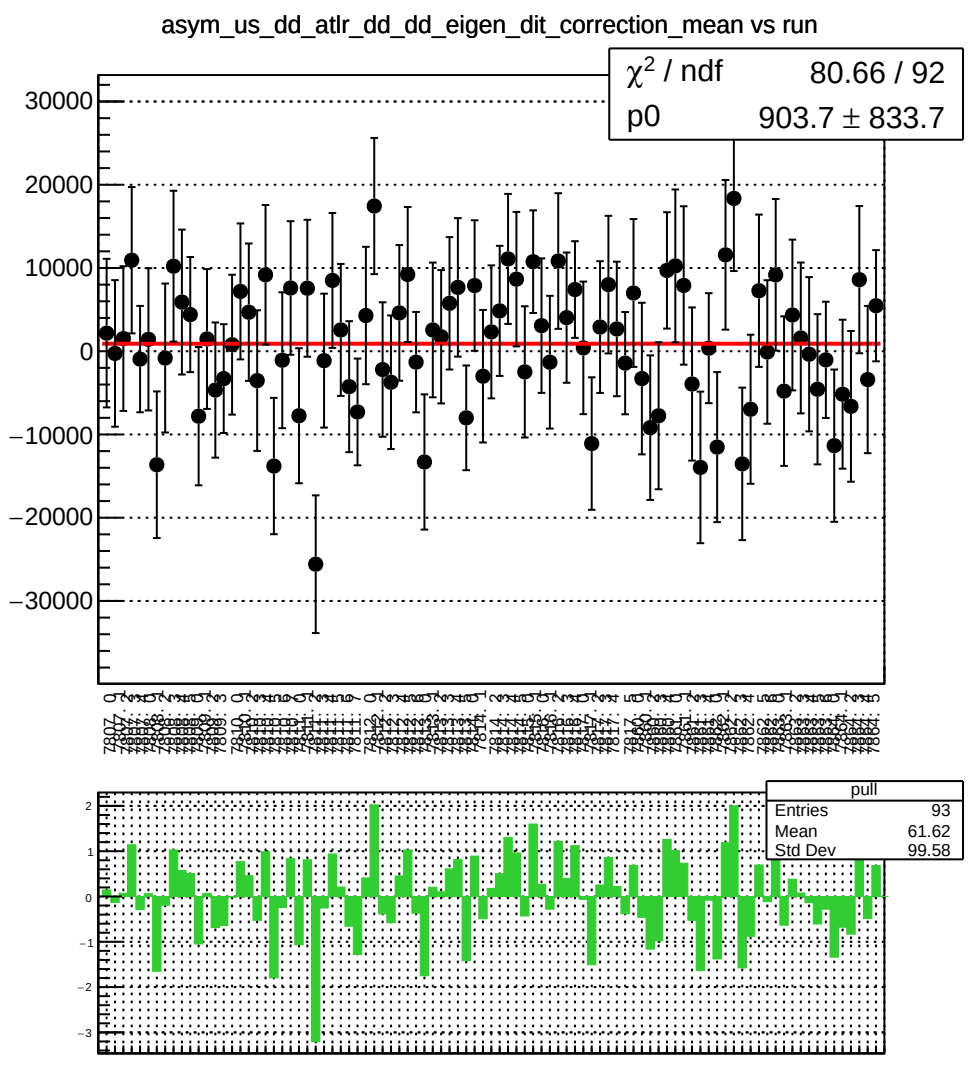

asym_us_dd_atlr_dd_dd_dit_correction_mean vs run
χ² / ndf 80.66 / 92
p0 903.7 ± 833.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean 61.62
Std Dev 99.58
2
1
0
−1
−2
−3

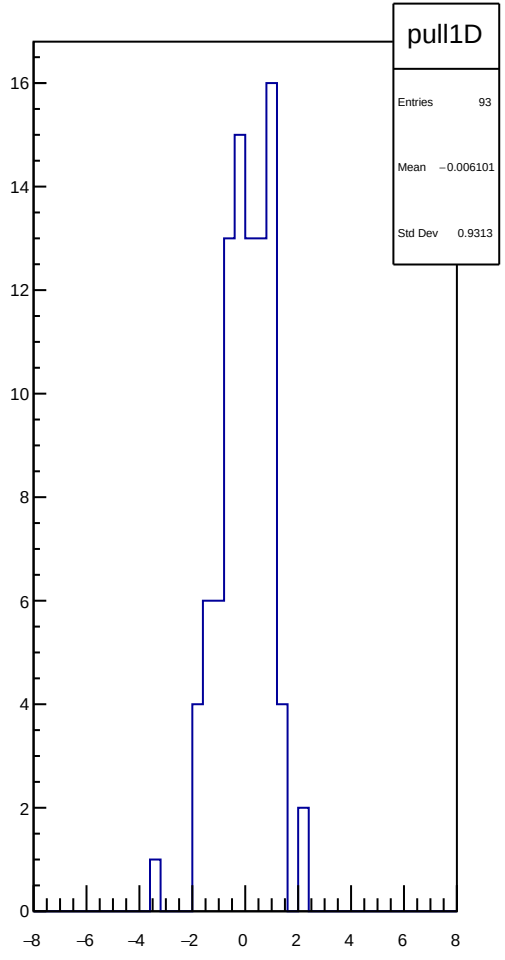

pull1D
Entries 93
Mean −0.006101
Std Dev 0.9313
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

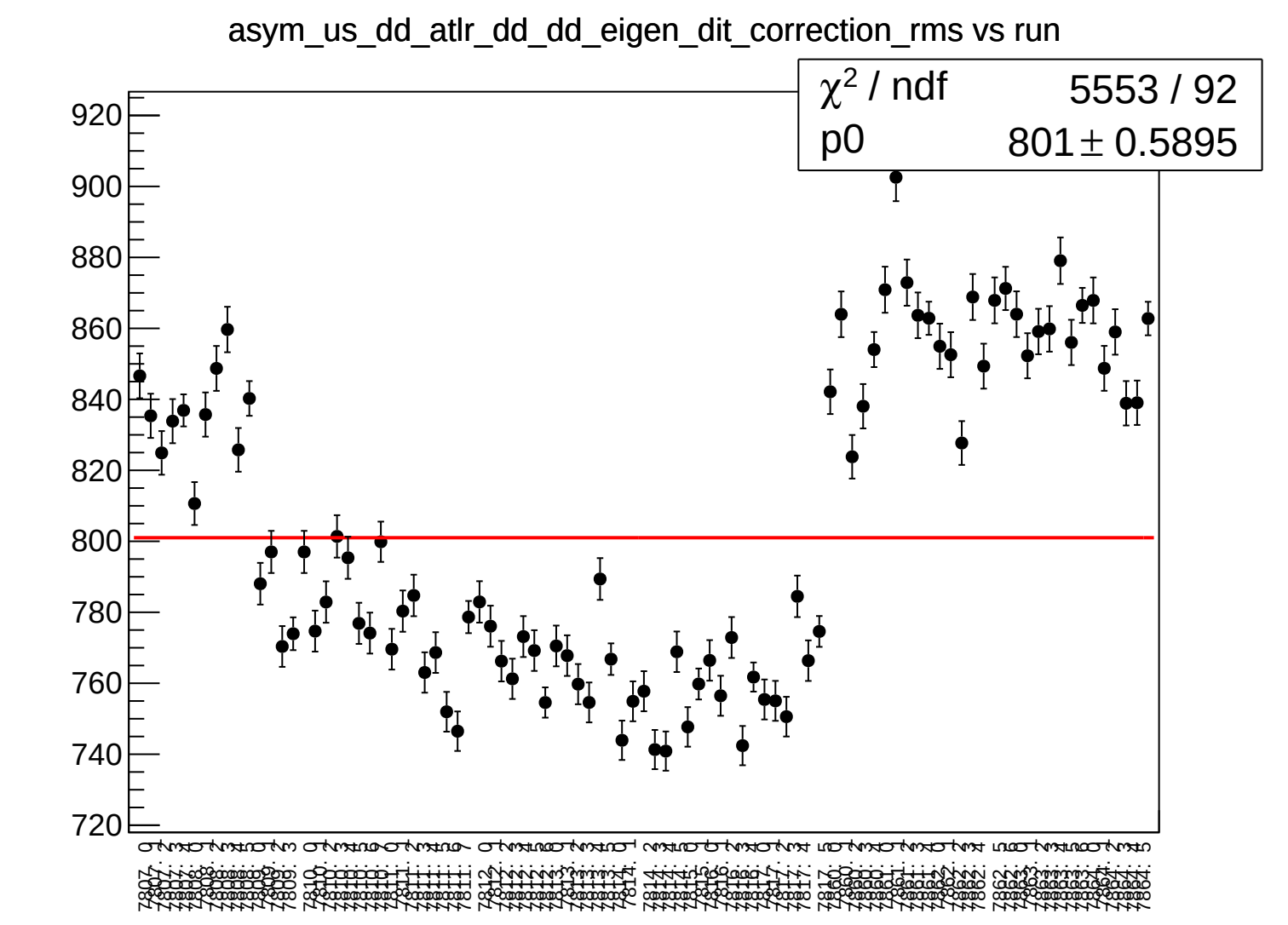

asym_us_dd_atlr_dd_dd_dit_correction_rms vs run
χ² / ndf 5553 / 92
p0 801 ± 0.5895
920
900
880
860
840
820
800
780
760
740
720

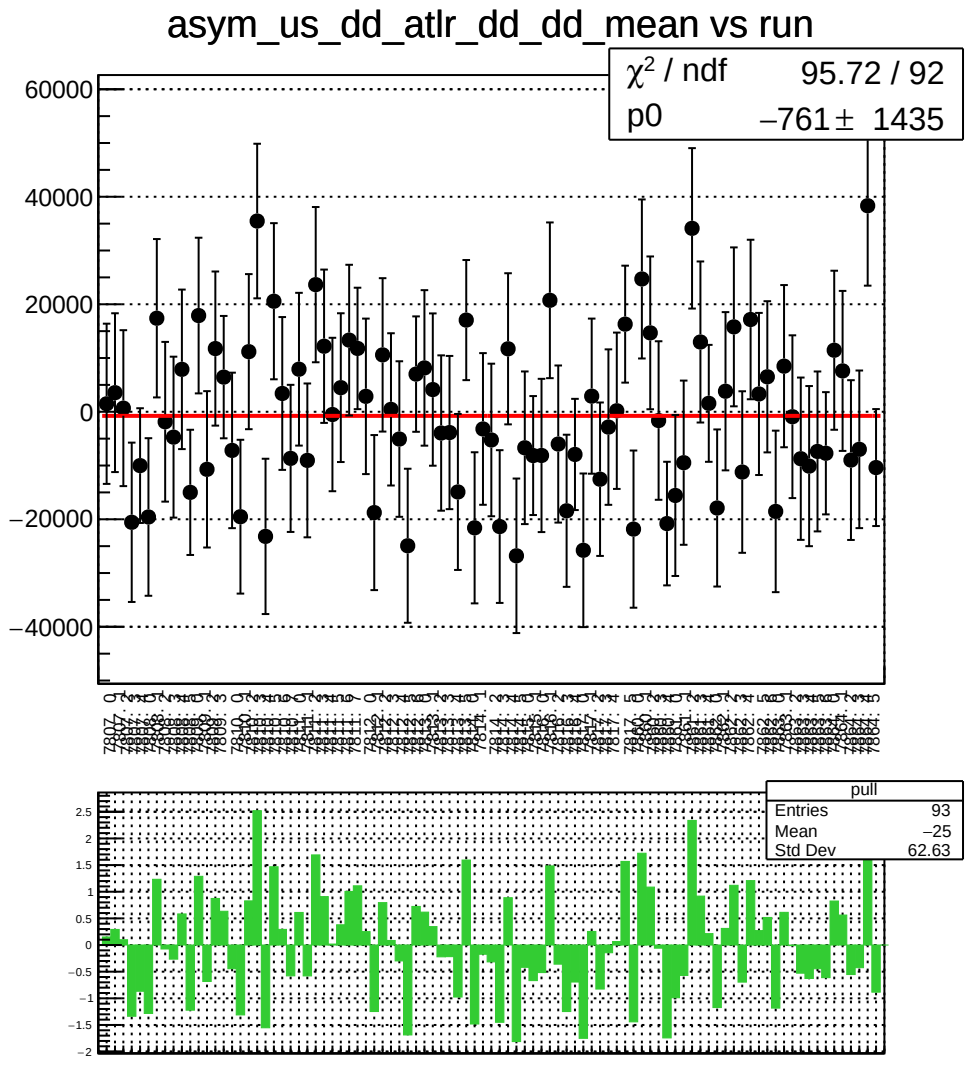

eigen_dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 103.2 / 92
p0 95.51 ± 1173
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −120.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.002693
Std Dev 1.053
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

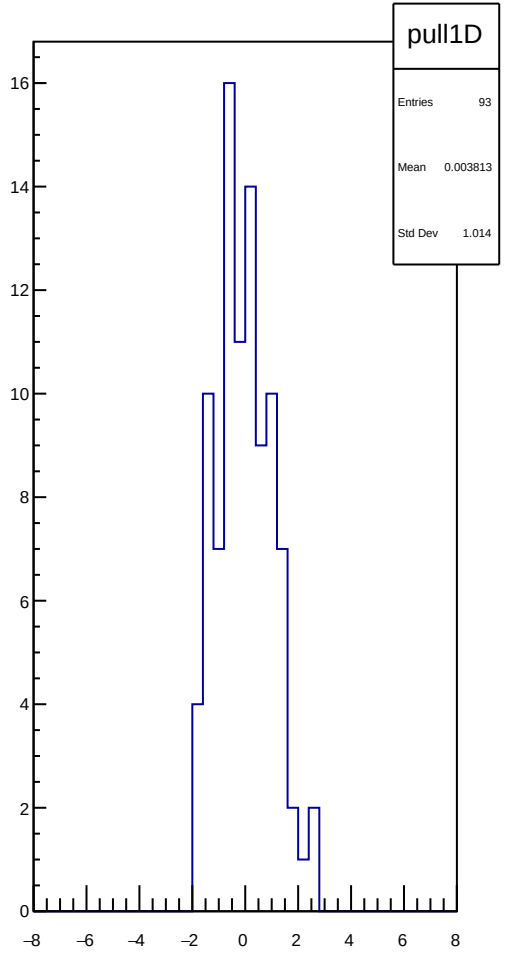

eigen_dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 85.66 / 92
p0 1129 ± 0.8294
1160
1150
1140
1130
1120
1110
1100

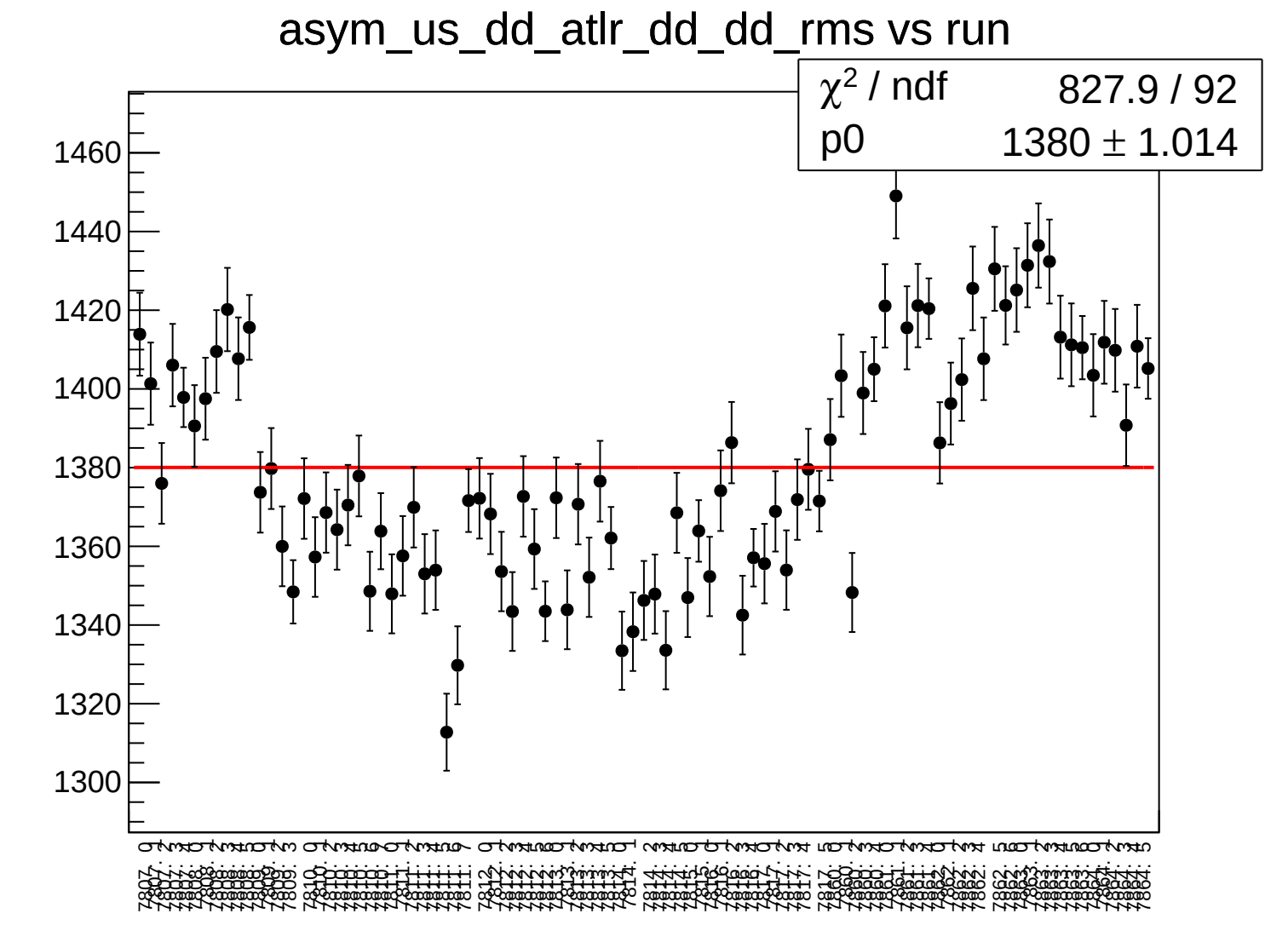

asym_us_dd_atlr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 80.66 / 92
p0 903.7 ± 833.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean 61.62
Std Dev 99.58
2
1
0
−1
−2
−3

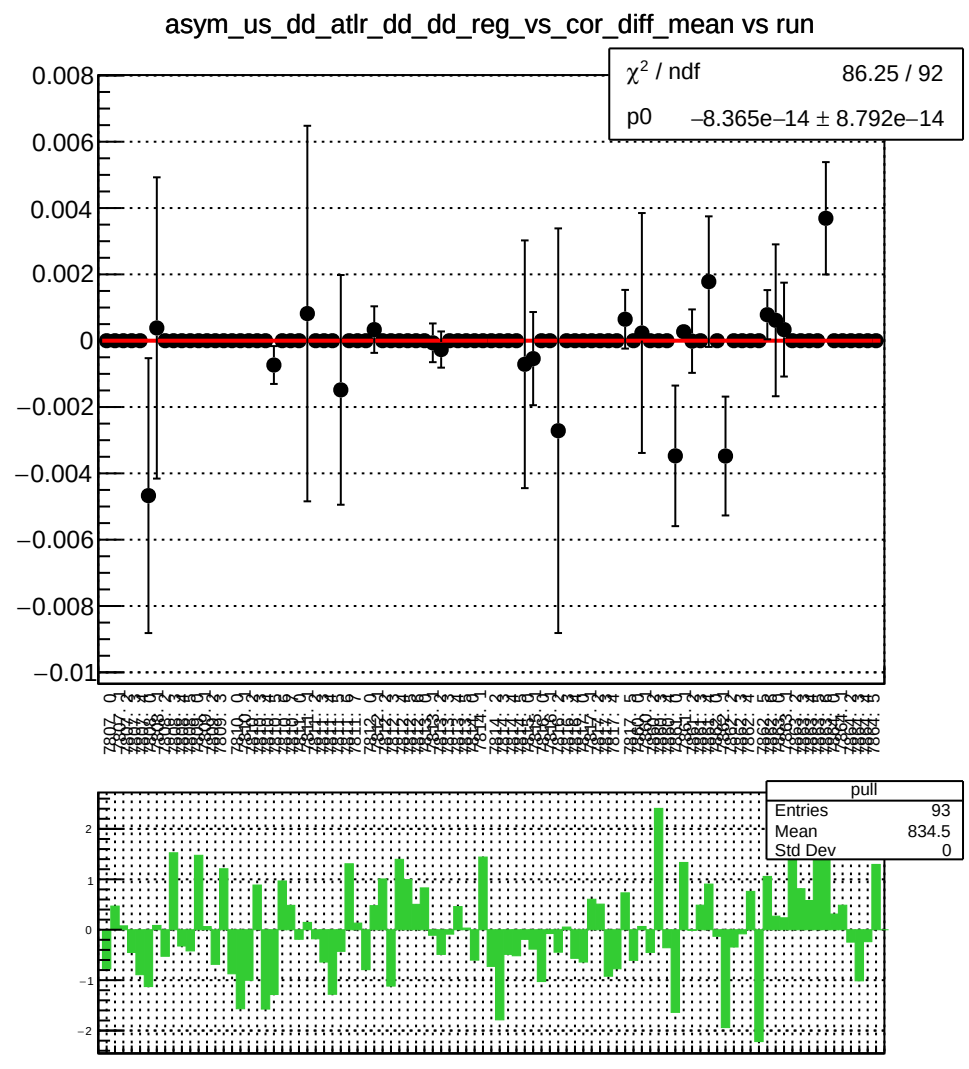

pull1D
Entries 93
Mean −0.006101
Std Dev 0.9313
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

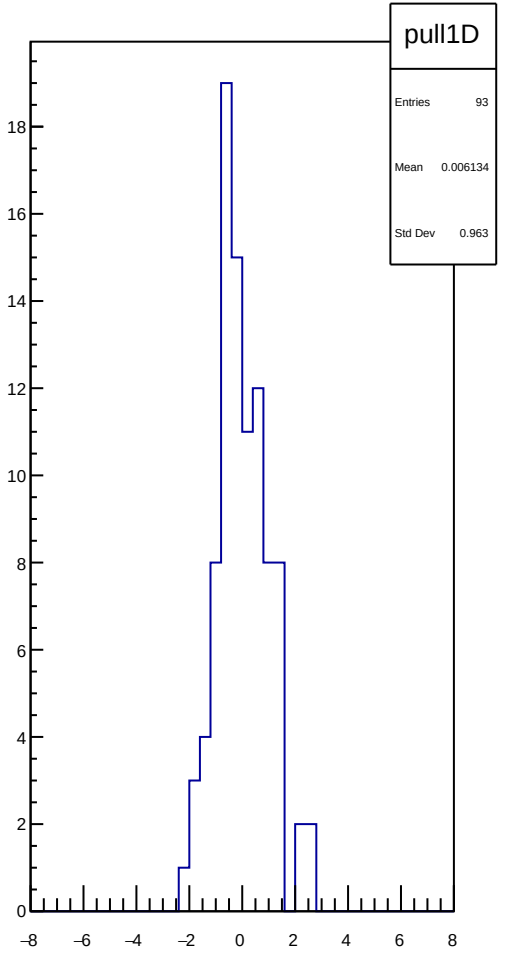

asym_us_dd_atlr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 5553 / 92
p0 801 ± 0.5895
920
900
880
860
840
820
800
780
760
740
720

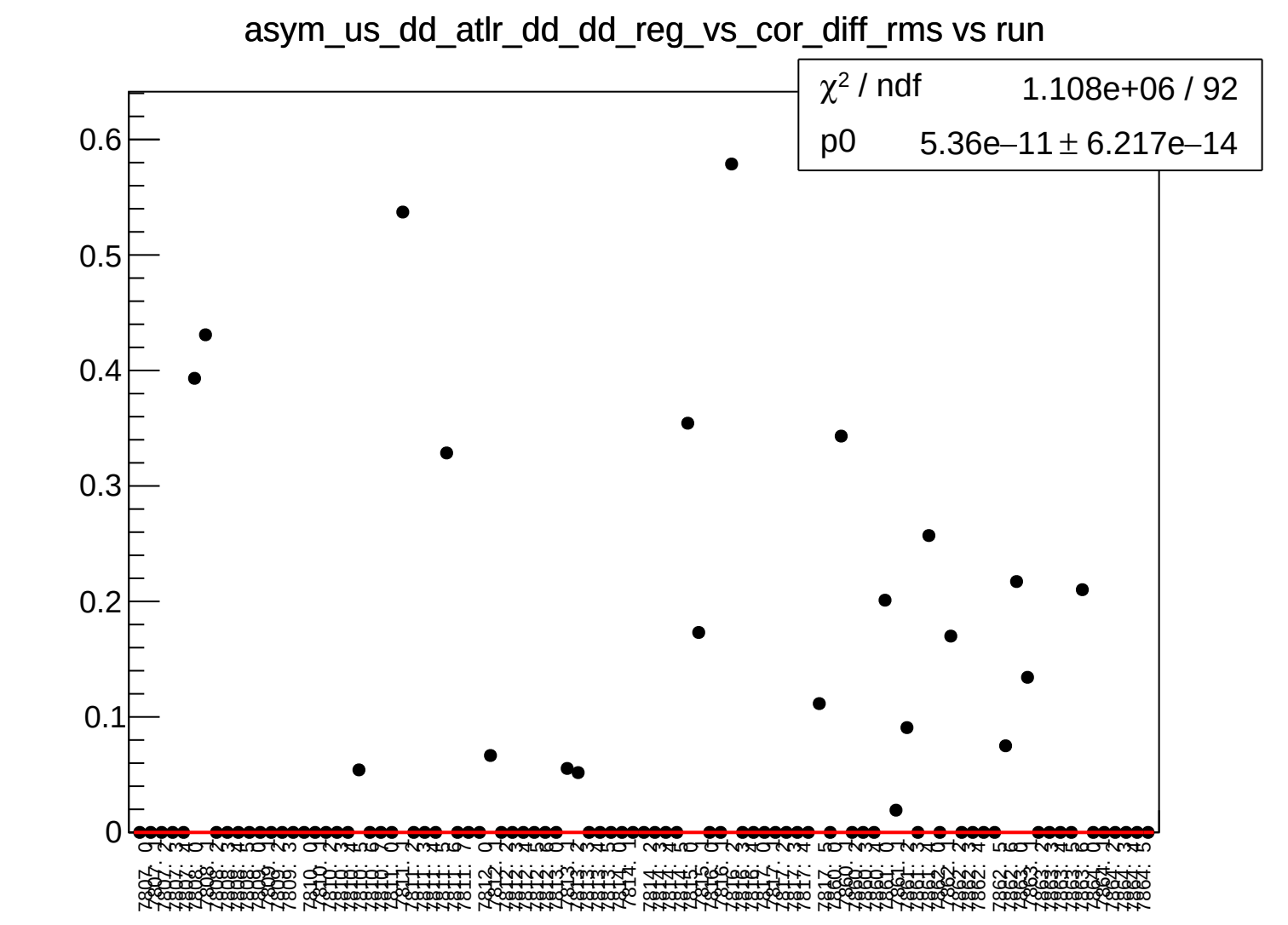

asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 95.72 / 92
p0 −761 ± 1435
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −25
Std Dev 62.63
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

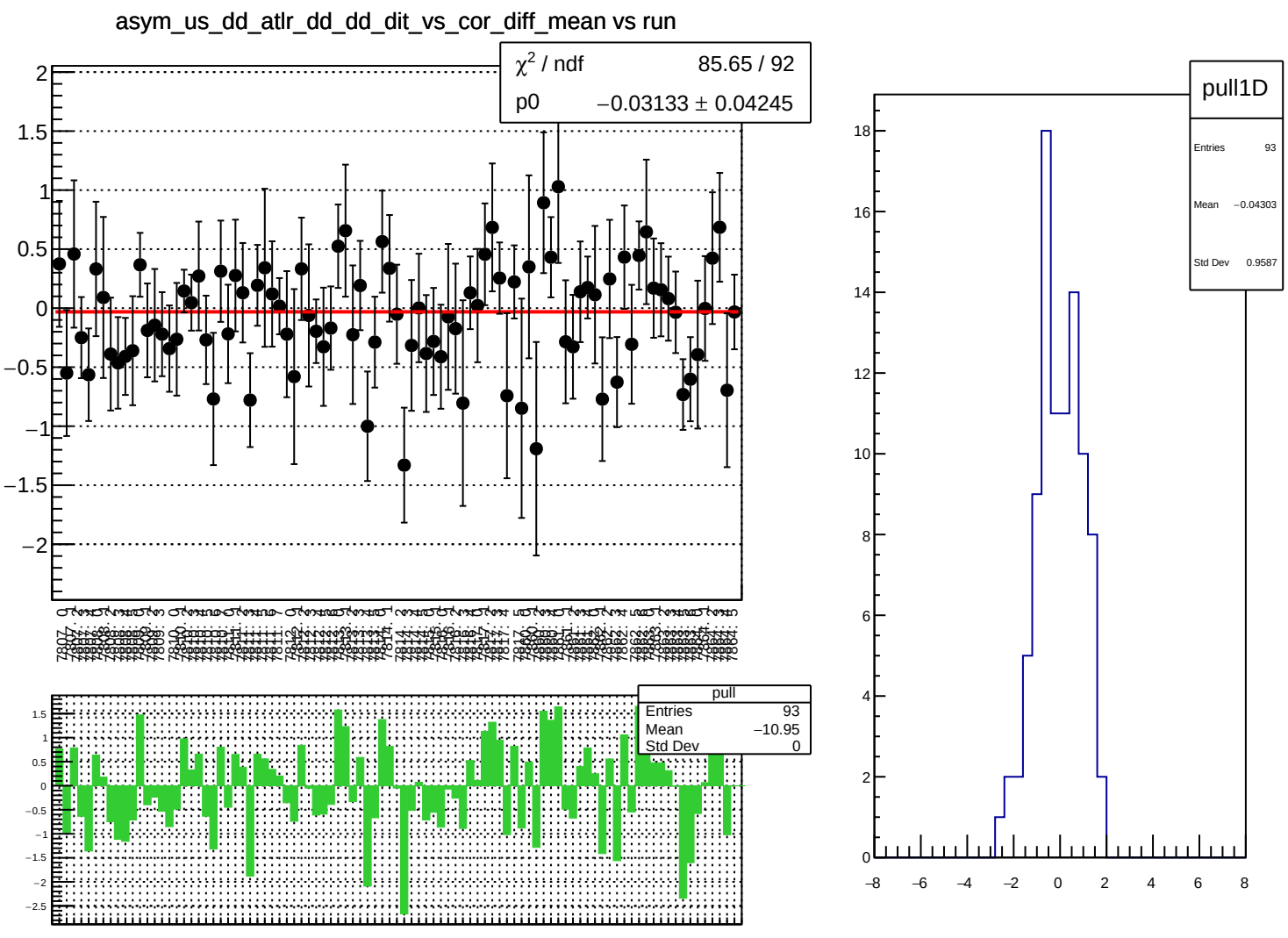

pull1D
Entries 93
Mean 0.003813
Std Dev 1.014
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

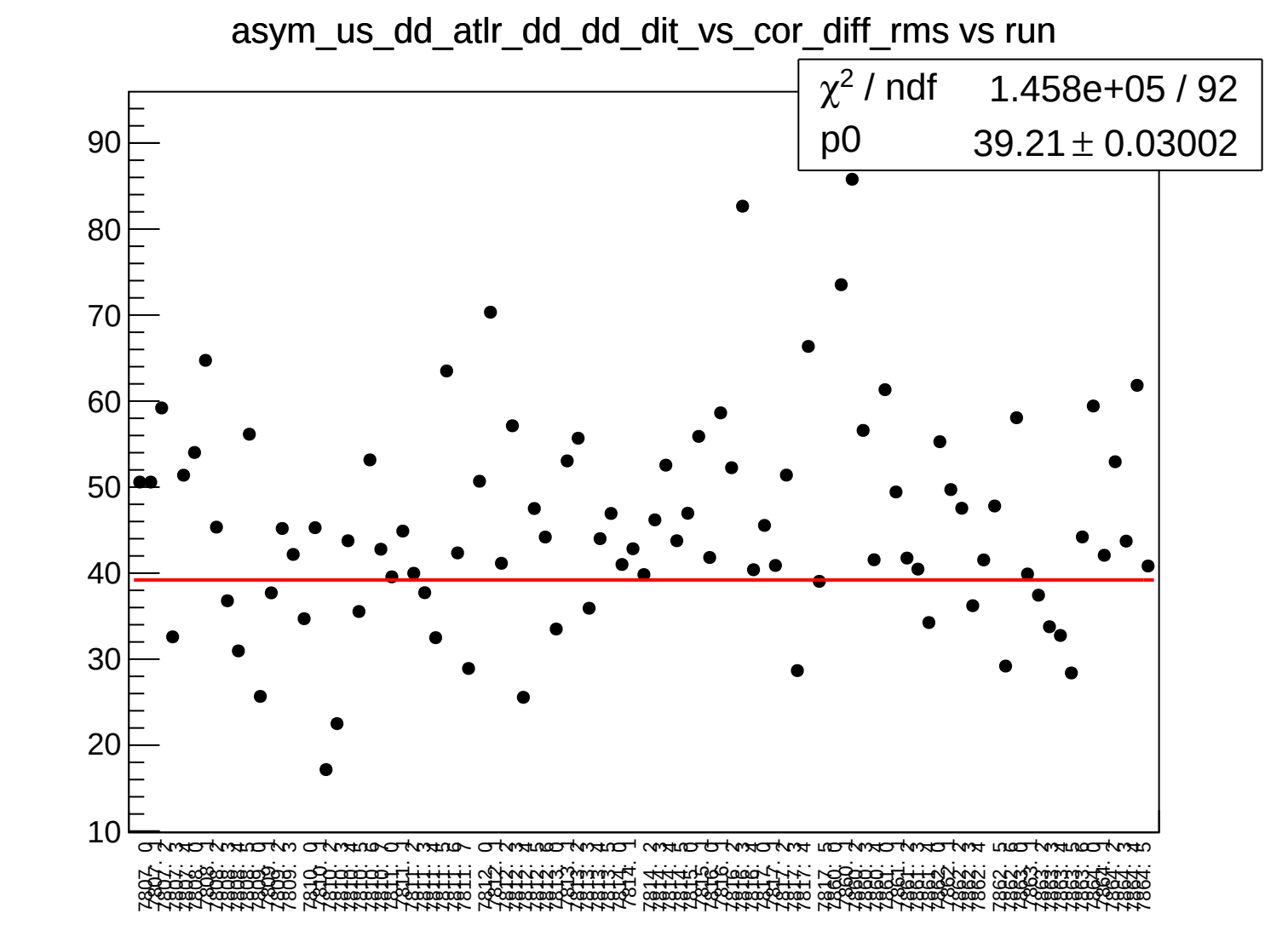

asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 827.9 / 92
p0 1380 ± 1.014
1460
1440
1420
1400
1380
1360
1340
1320
1300

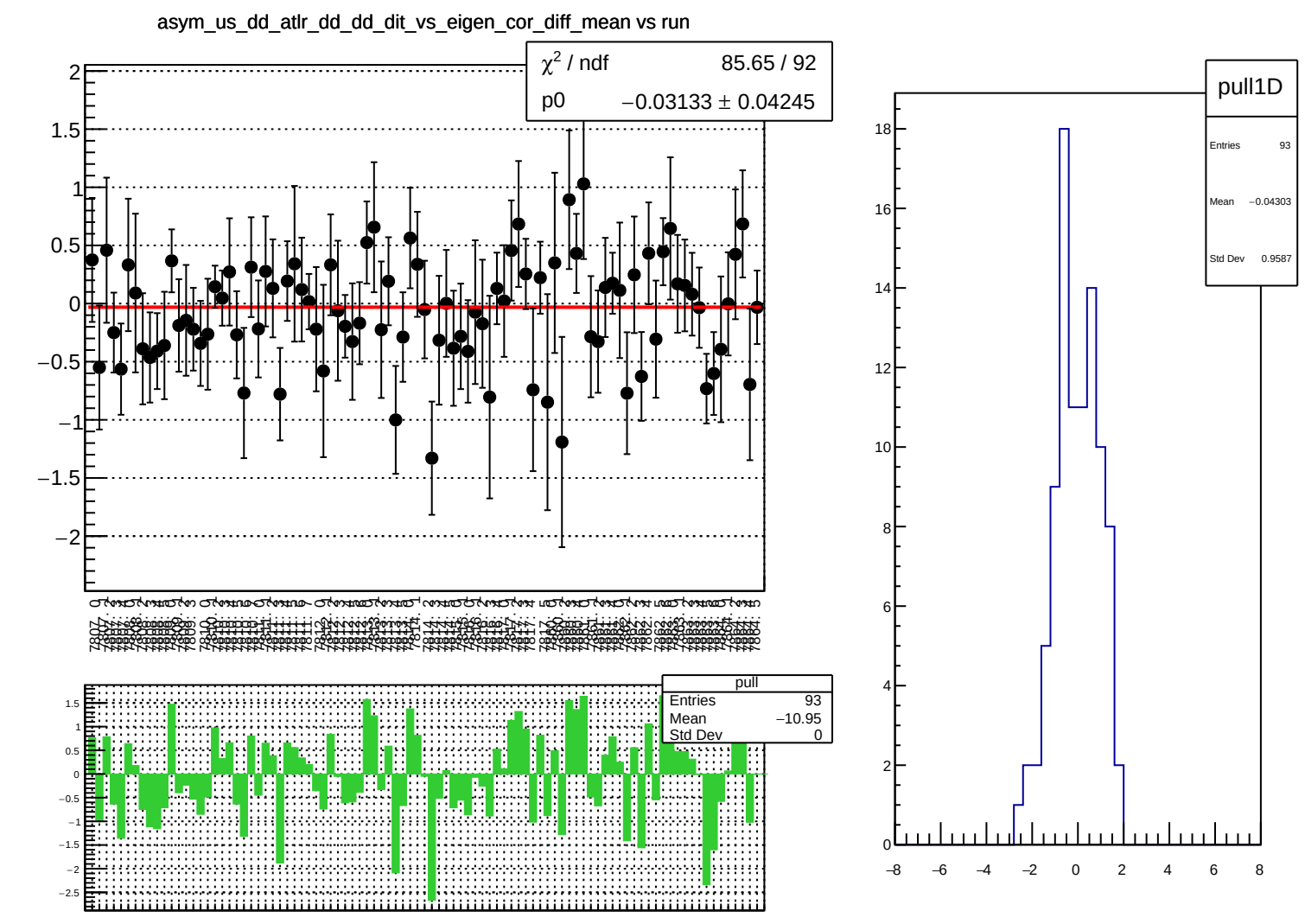

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 86.25 / 92
p0 −8.365e−14 ± 8.792e−14
0.008
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
−0.01
pull
Entries 93
Mean 834.5
Std Dev 0
2
1
0
−1
−2

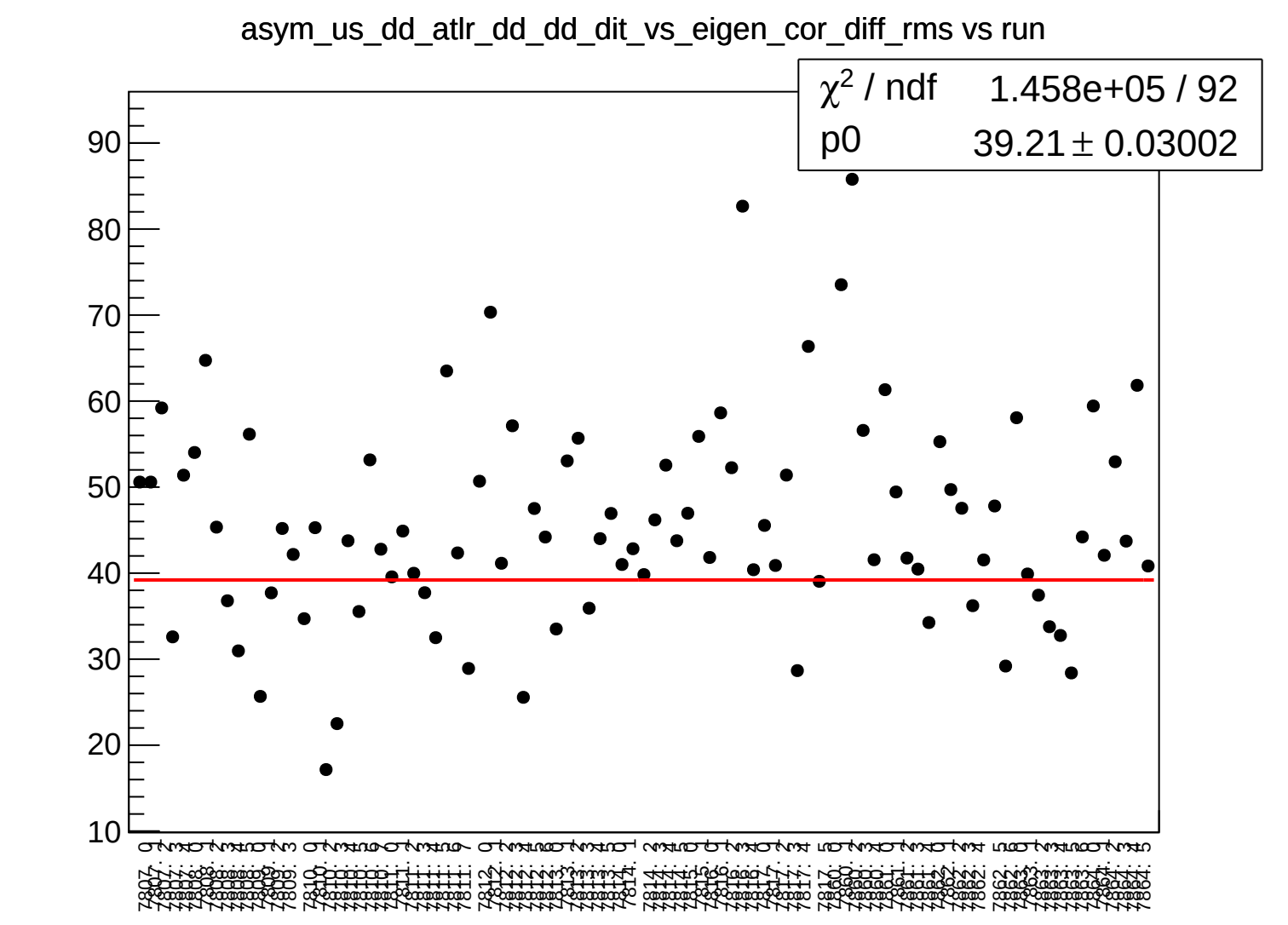

pull1D
Entries 93
Mean 0.006134
Std Dev 0.963
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

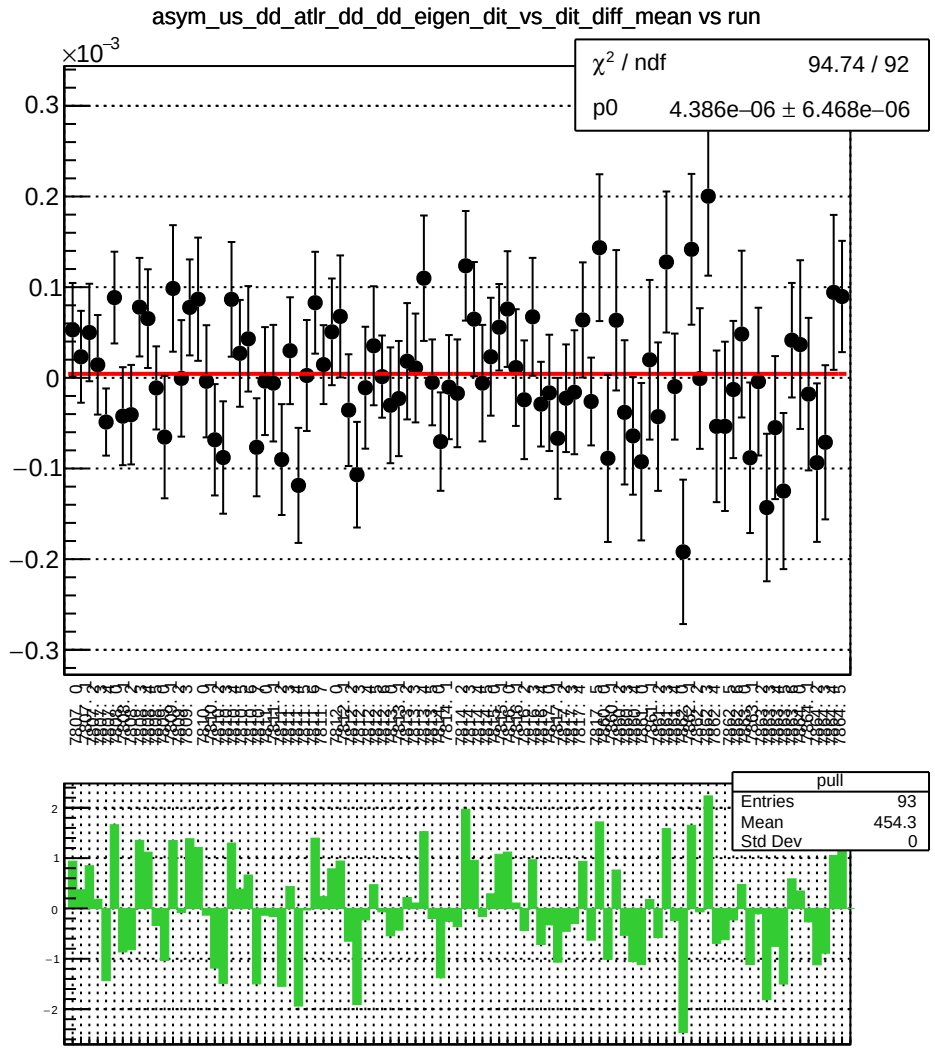

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.108e+06 / 92
p0 5.36e−11 ± 6.217e−14
0.6
0.5
0.4
0.3
0.2
0.1
0

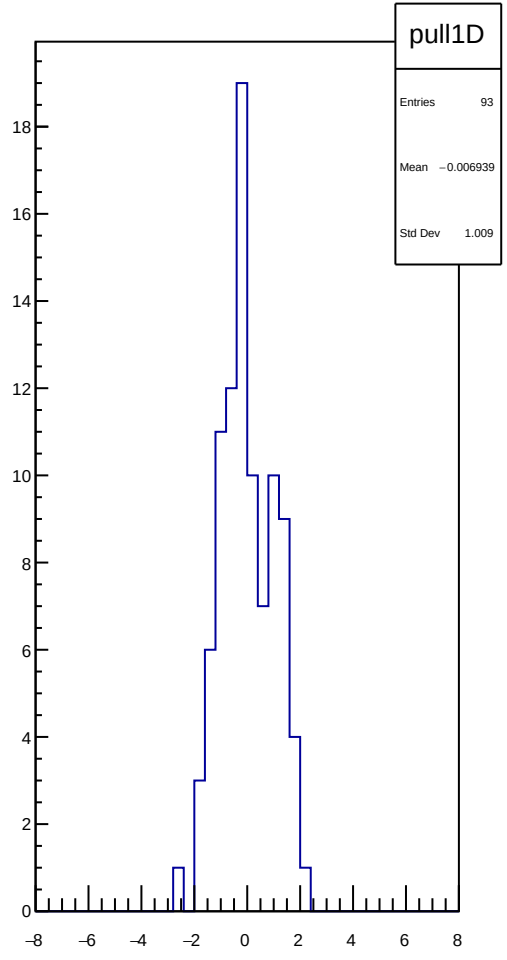

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 85.65 / 92
p0 −0.03133 ± 0.04245
pull
Entries 93
Mean −10.95
Std Dev 0
pull1D
Entries 93
Mean −0.04303
Std Dev 0.9587

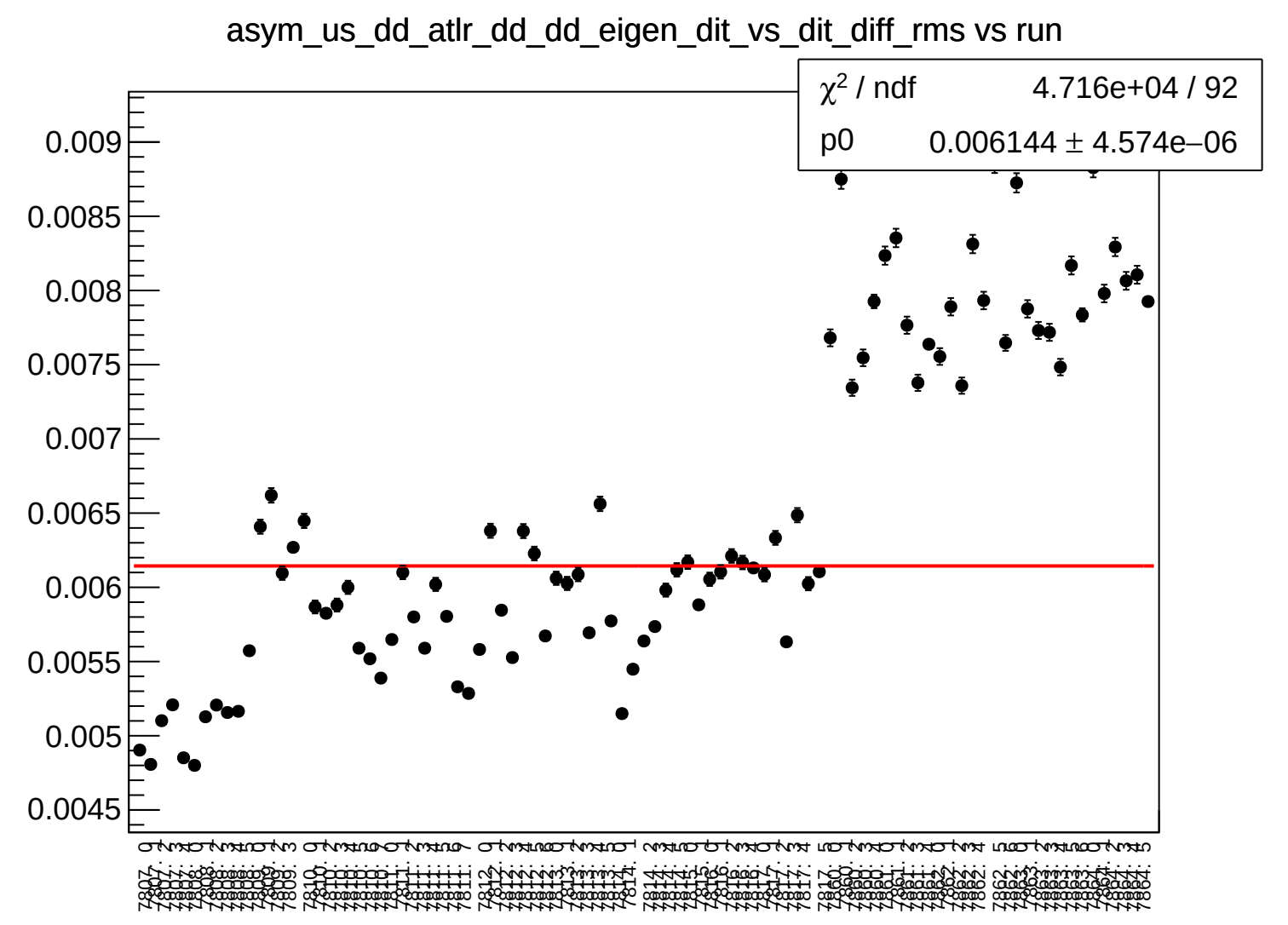

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.458e+05 / 92
p0 39.21 ± 0.03002
90
80
70
60
50
40
30
20
10

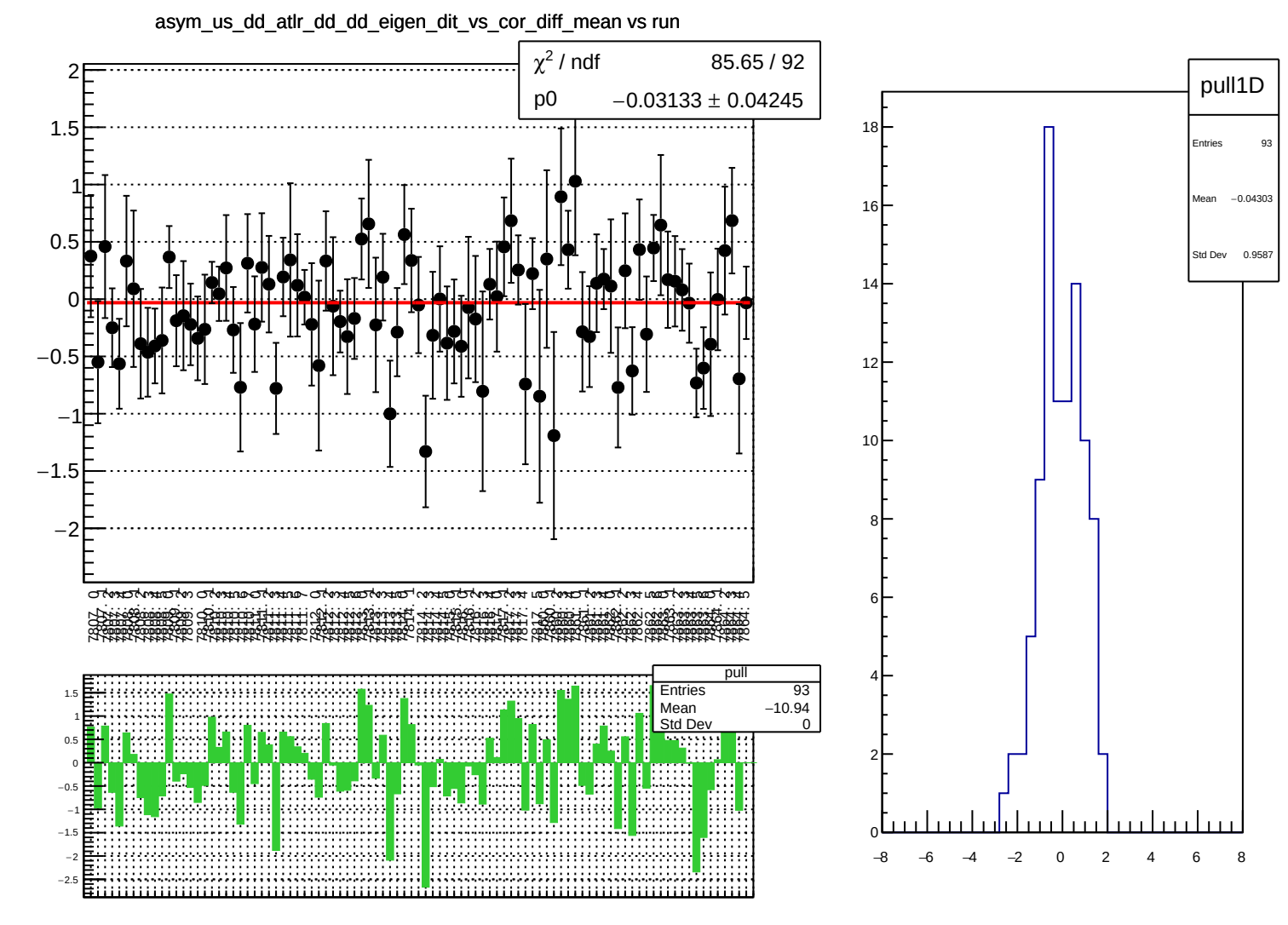

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.65 / 92
p0 −0.03133 ± 0.04245
pull
Entries 93
Mean −10.95
Std Dev 0
pull1D
Entries 93
Mean −0.04303
Std Dev 0.9587

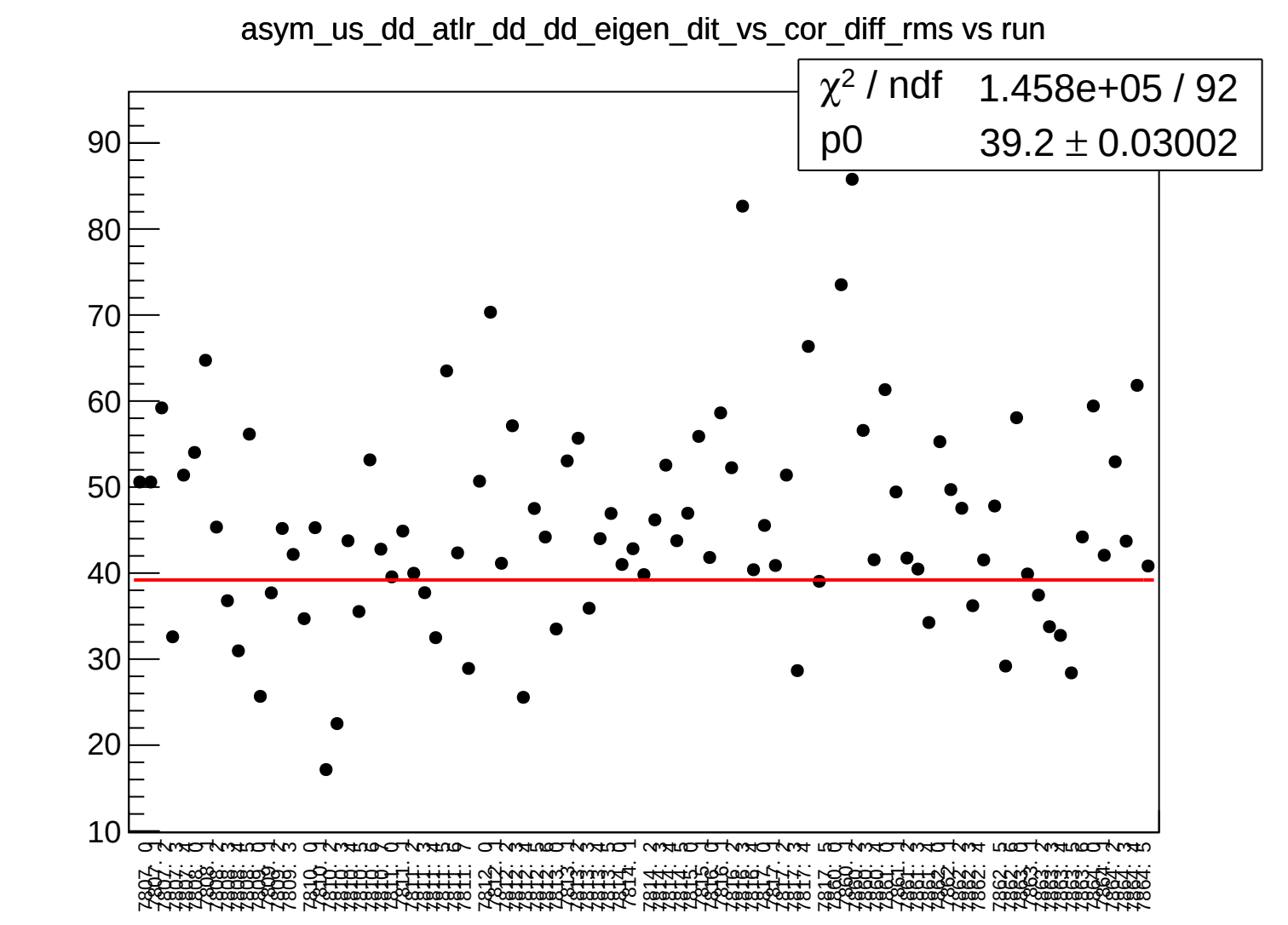

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.458e+05 / 92
p0 39.21 ± 0.03002
90
80
70
60
50
40
30
20
10

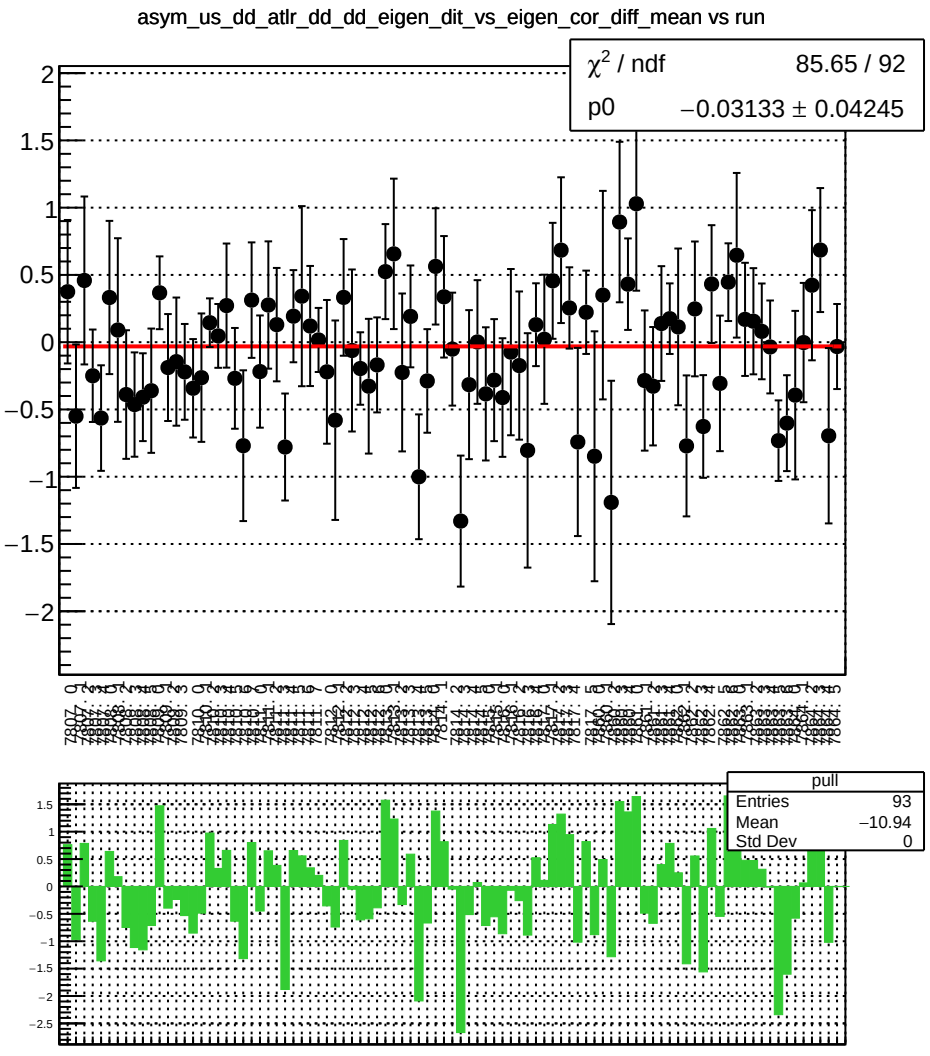

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 94.74 / 92
p0 4.386e−06 ± 6.468e−06
pull
Entries 93
Mean 454.3
Std Dev 0

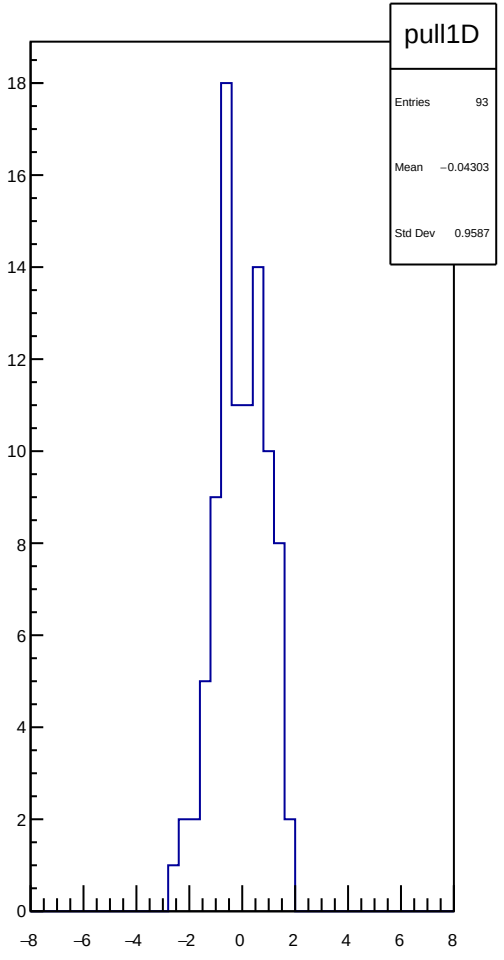

pull1D
Entries 93
Mean −0.006939
Std Dev 1.009

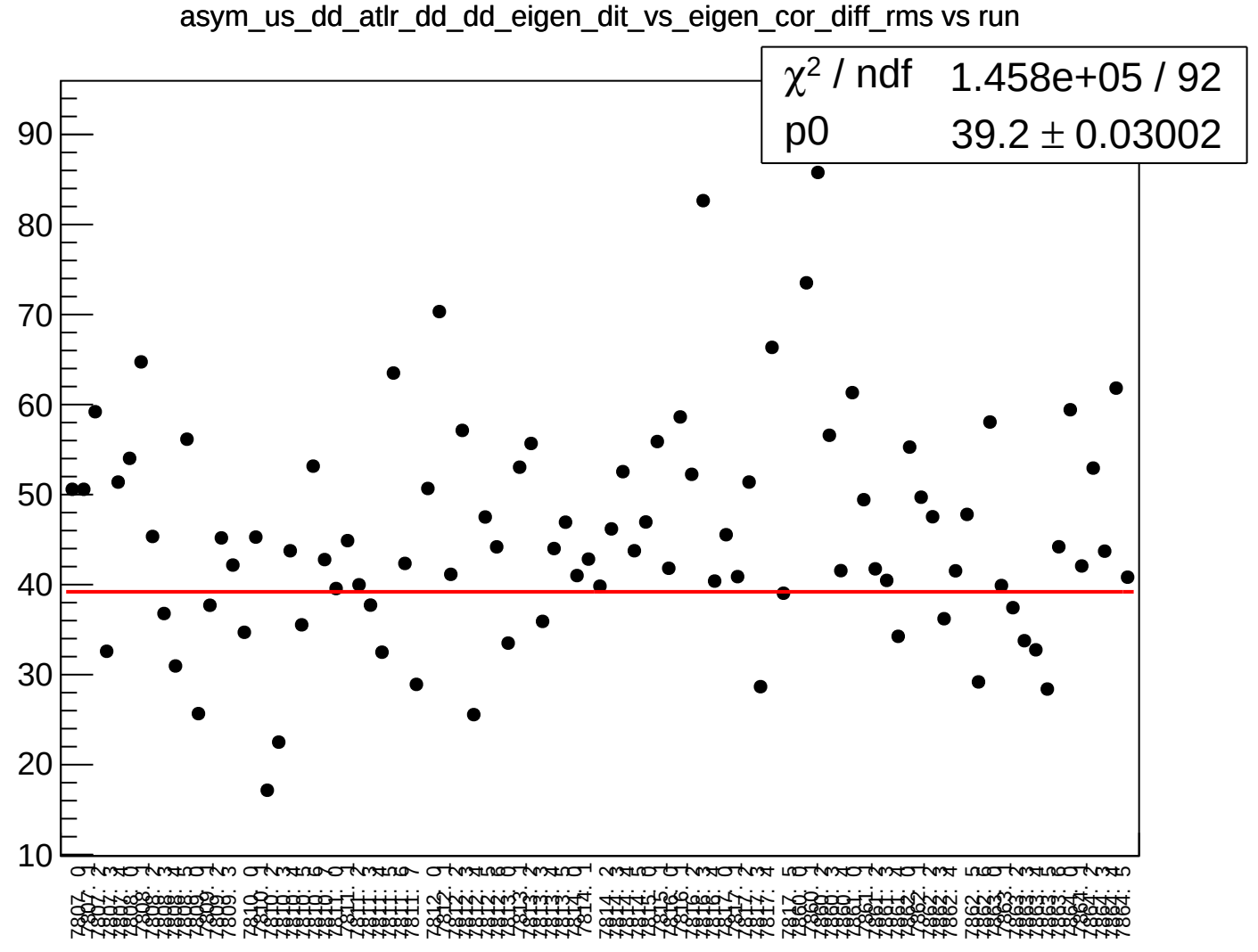

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.716e+04 / 92
p0 0.006144 ± 4.574e−06
0.009
0.0085
0.008
0.0075
0.007
0.0065
0.006
0.0055
0.005
0.0045

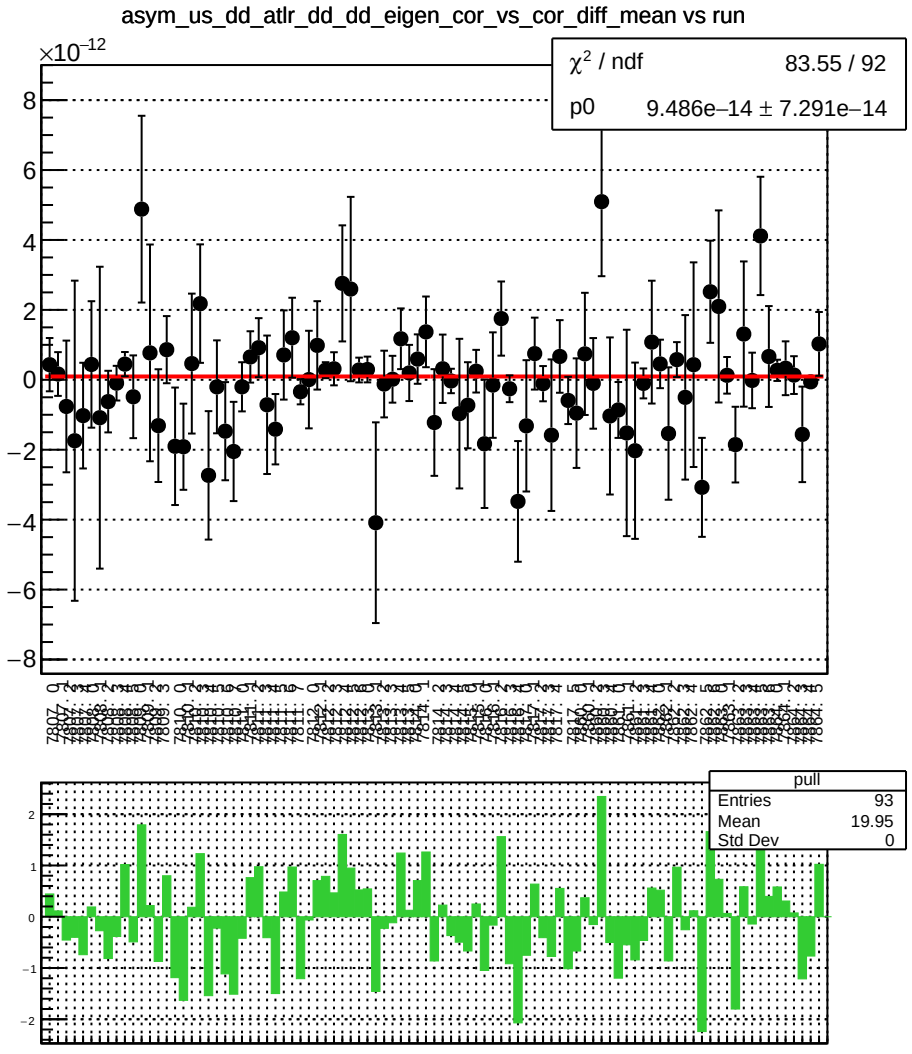

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.65 / 92
p0 −0.03133 ± 0.04245
pull
Entries 93
Mean −10.94
Std Dev 0
pull1D
Entries 93
Mean −0.04303
Std Dev 0.9587

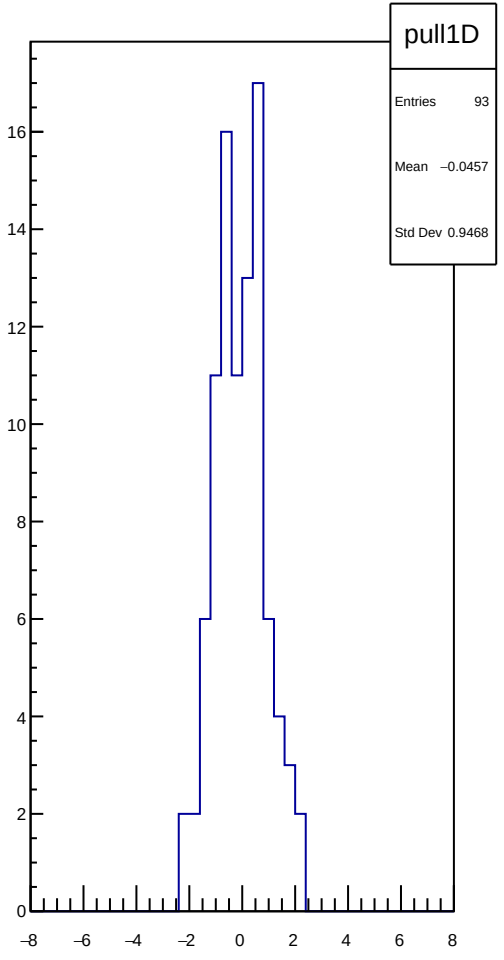

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.458e+05 / 92
p0 39.2 ± 0.03002
90
80
70
60
50
40
30
20
10

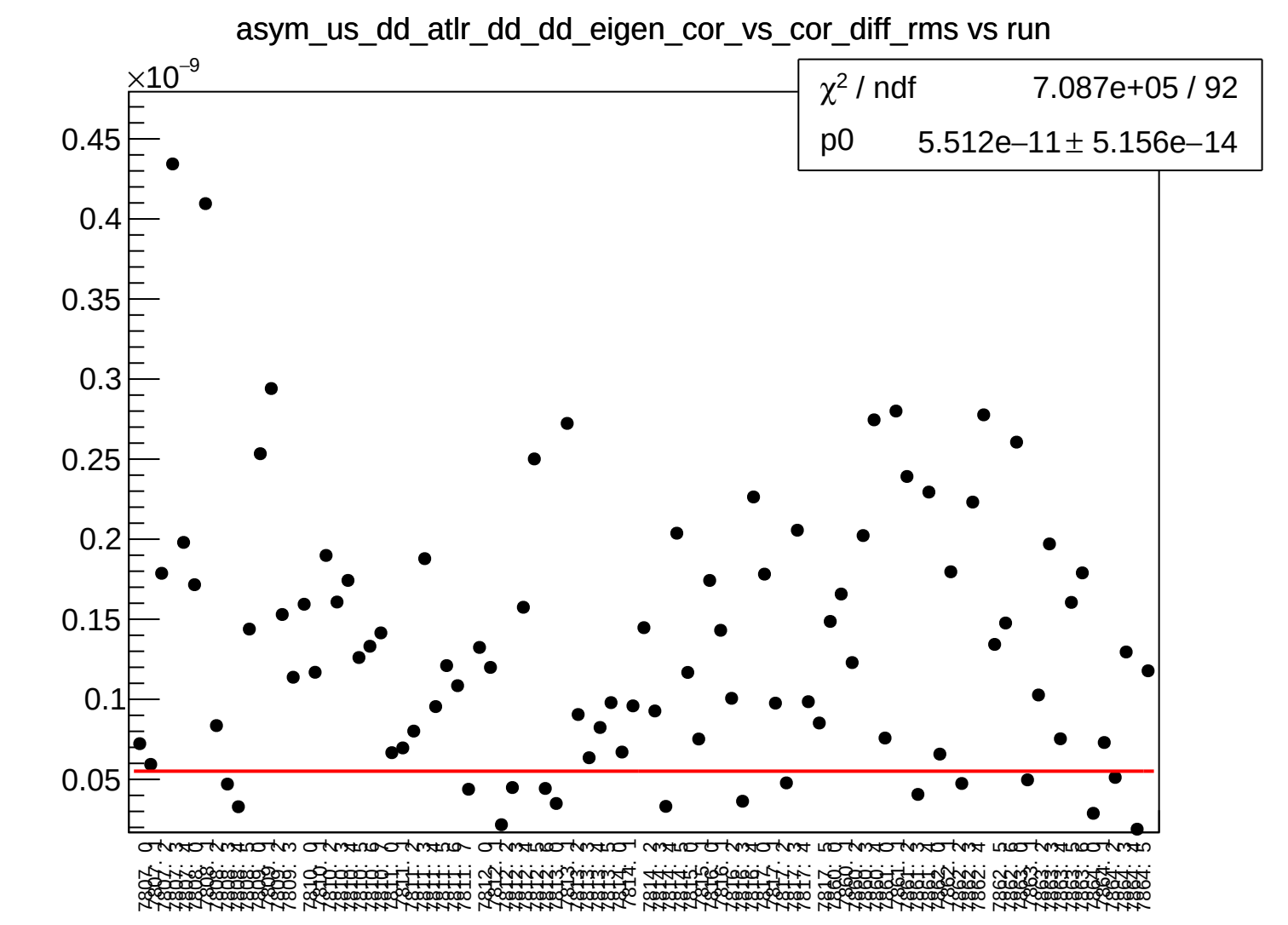

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.65 / 92
p0 −0.03133 ± 0.04245
pull
Entries 93
Mean −10.94
Std Dev 0

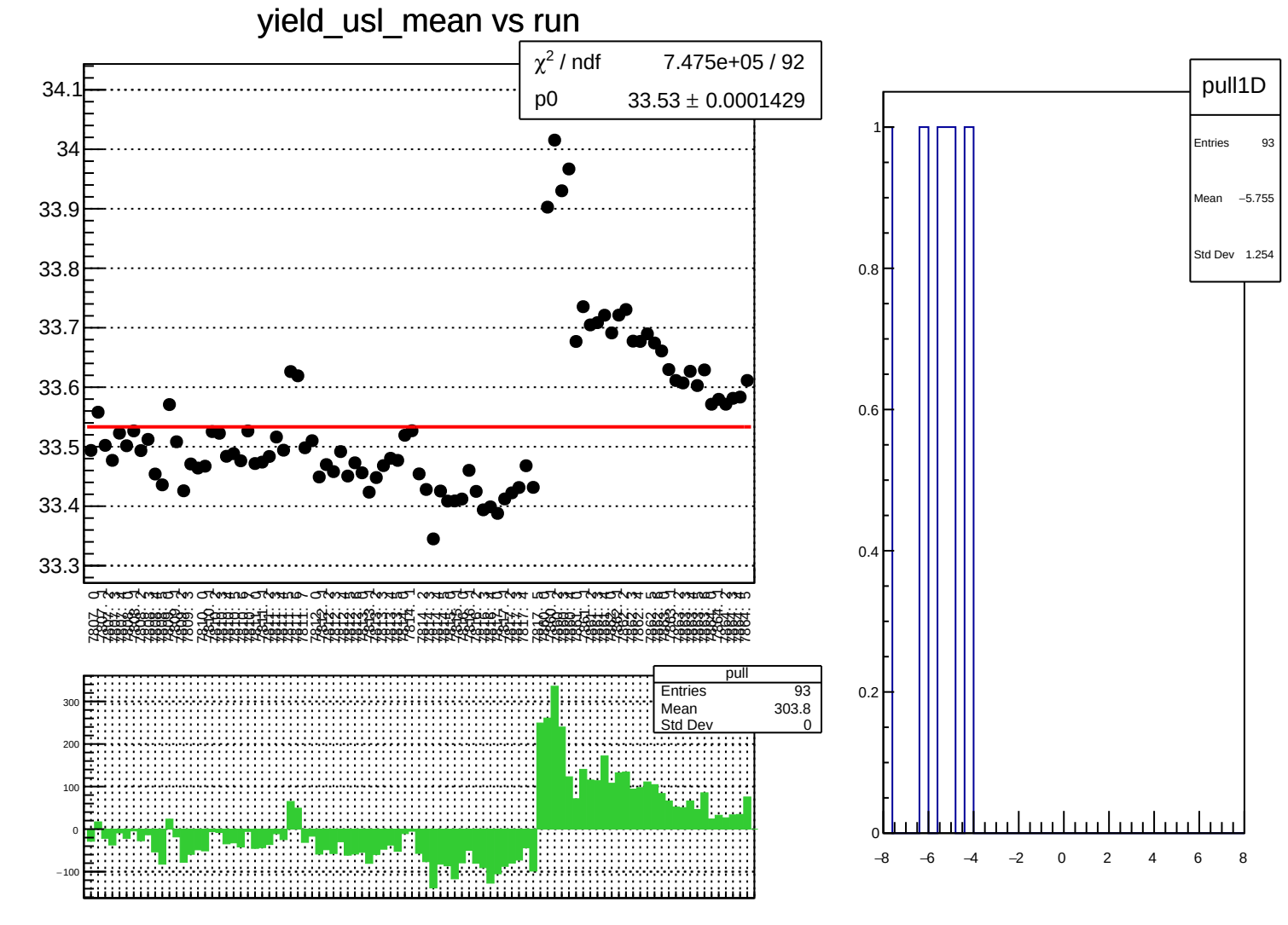

pull1D
Entries 93
Mean −0.04303
Std Dev 0.9587

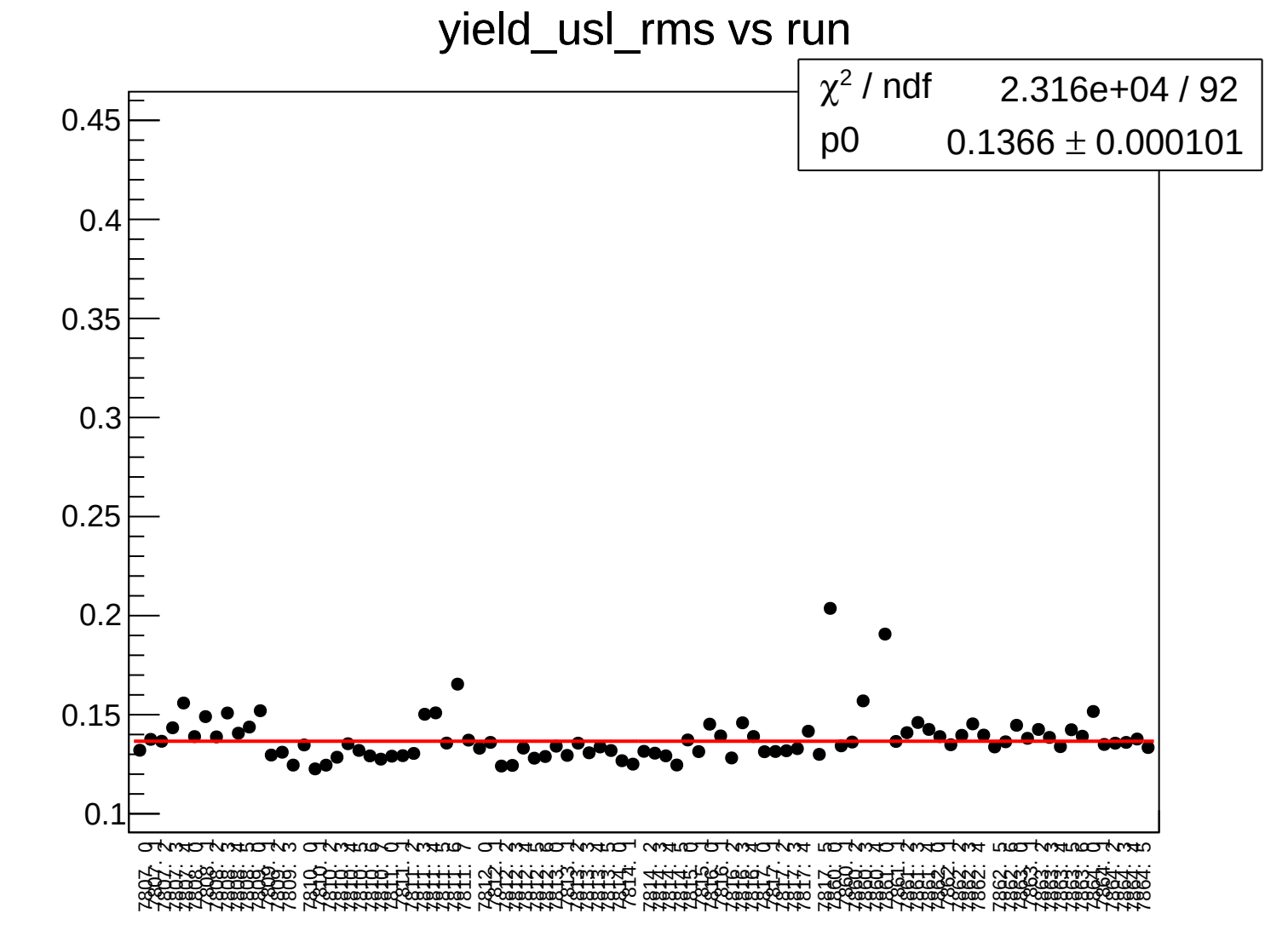

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.458e+05 / 92
p0 39.2 ± 0.03002
90
80
70
60
50
40
30
20
10

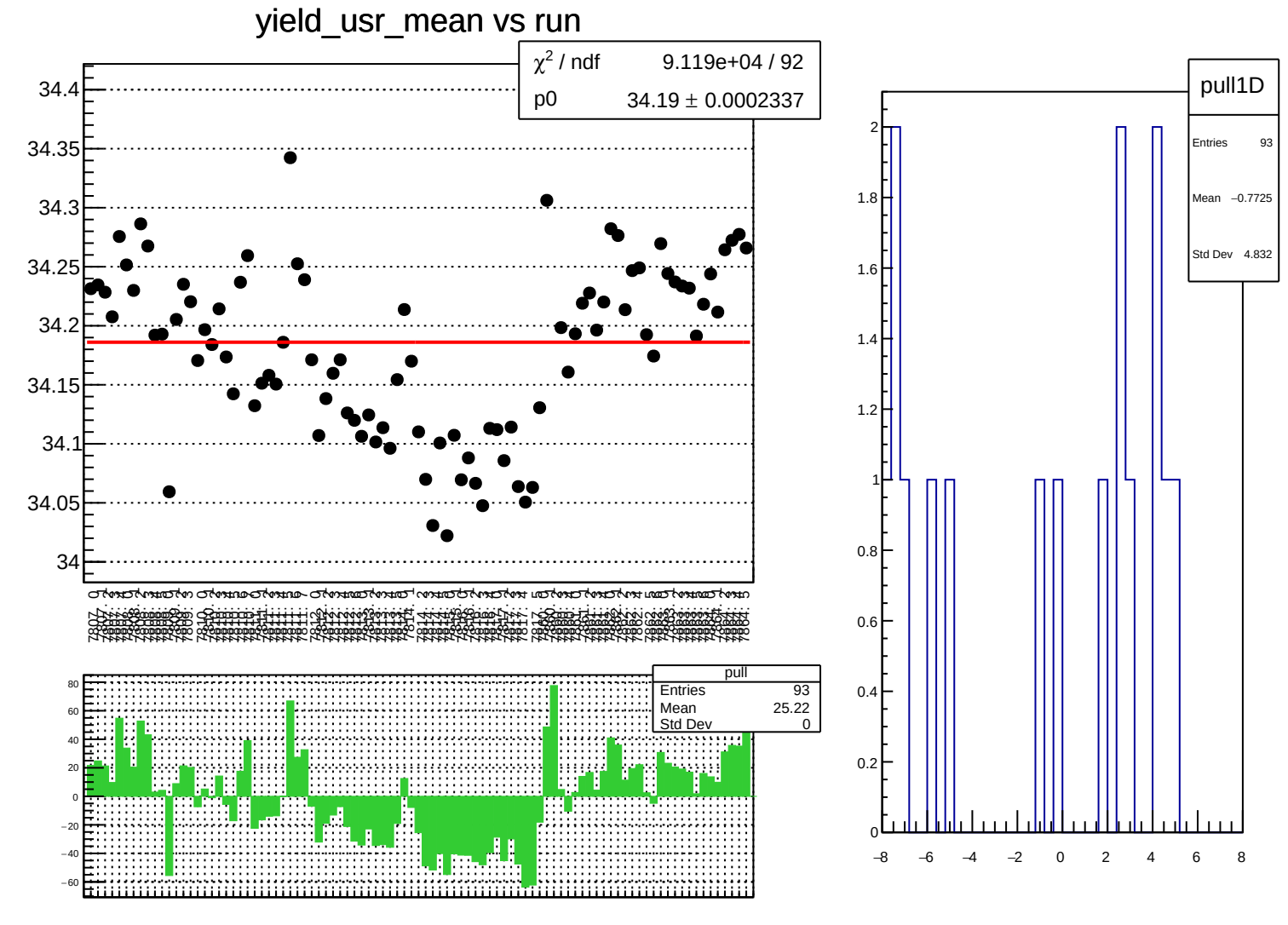

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.55 / 92
p0 9.486e−14 ± 7.291e−14
pull
Entries 93
Mean 19.95
Std Dev 0

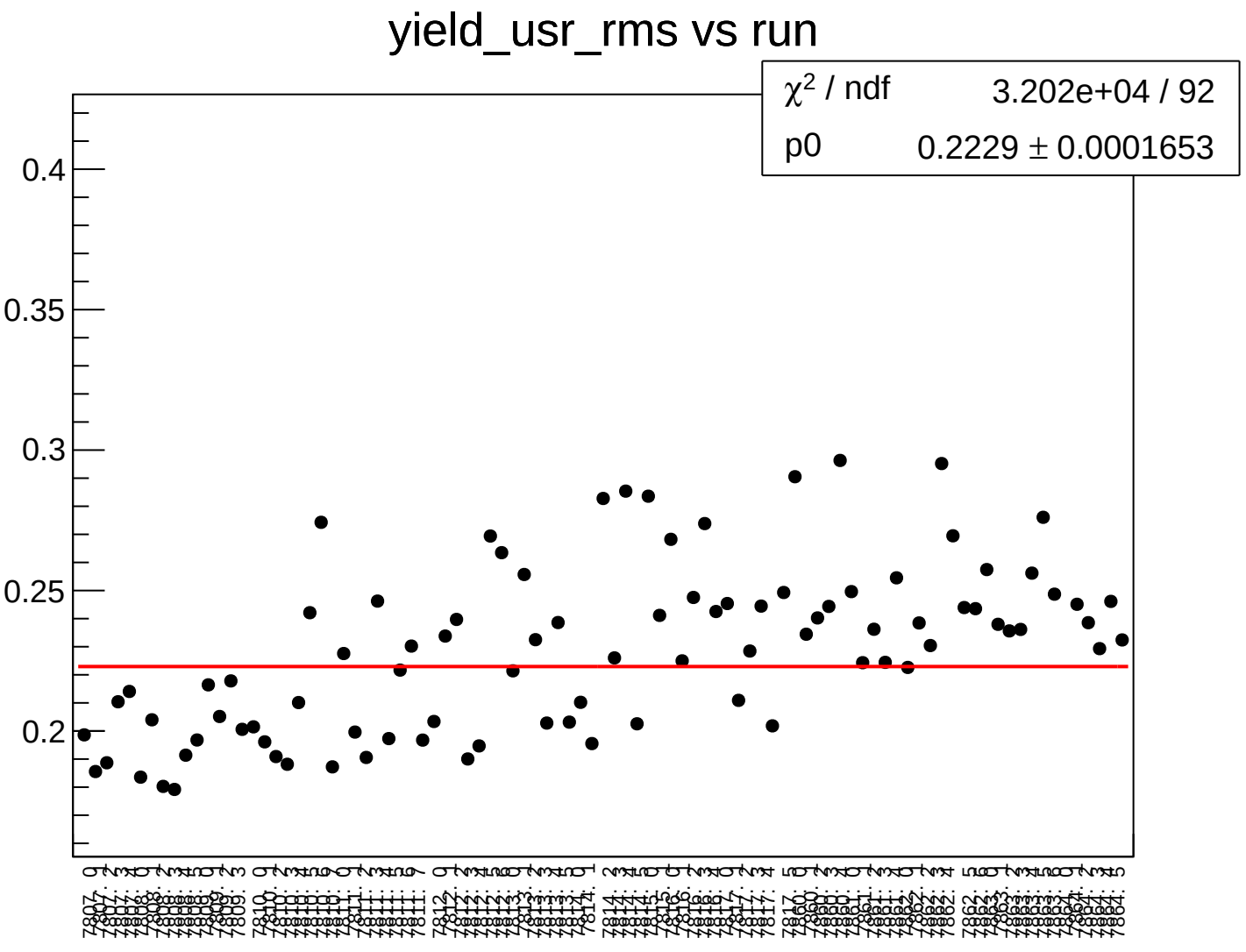

pull1D
Entries 93
Mean −0.0457
Std Dev 0.9468

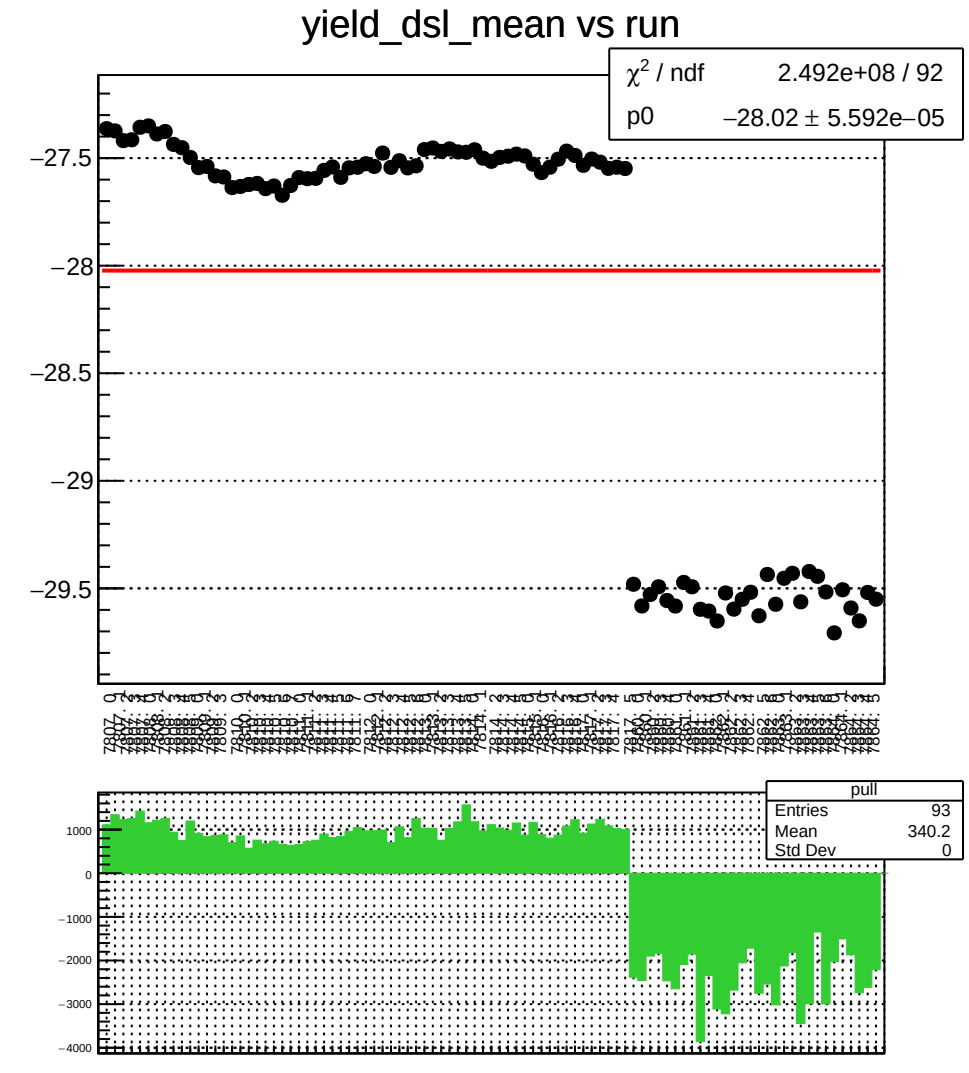

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.087e+05 / 92
p0 5.512e−11 ± 5.156e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

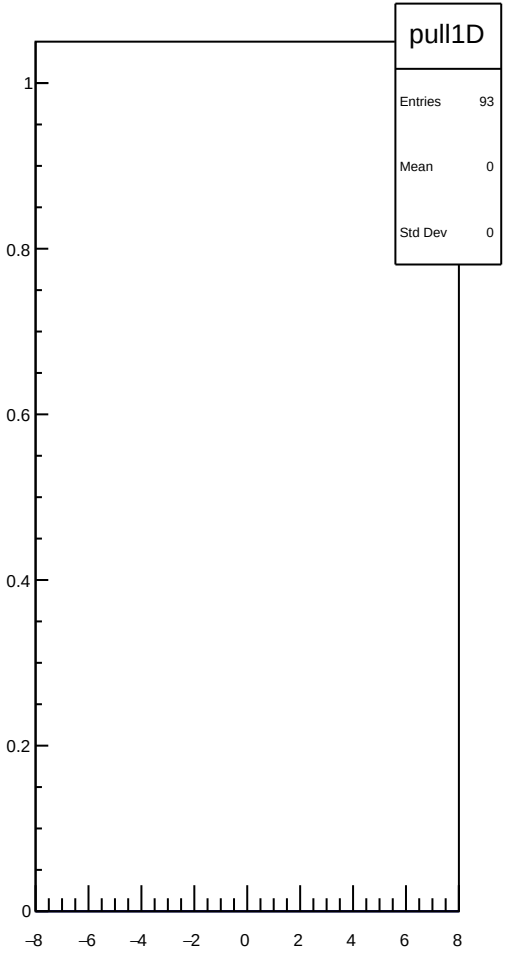

yield_usl_mean vs run
χ² / ndf 7.475e+05 / 92
p0 33.53 ± 0.0001429
34.1
34
33.9
33.8
33.7
33.6
33.5
33.4
33.3
pull
Entries 93
Mean 303.8
Std Dev 0
300
200
100
0
−100
pull1D
Entries 93
Mean −5.755
Std Dev 1.254
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

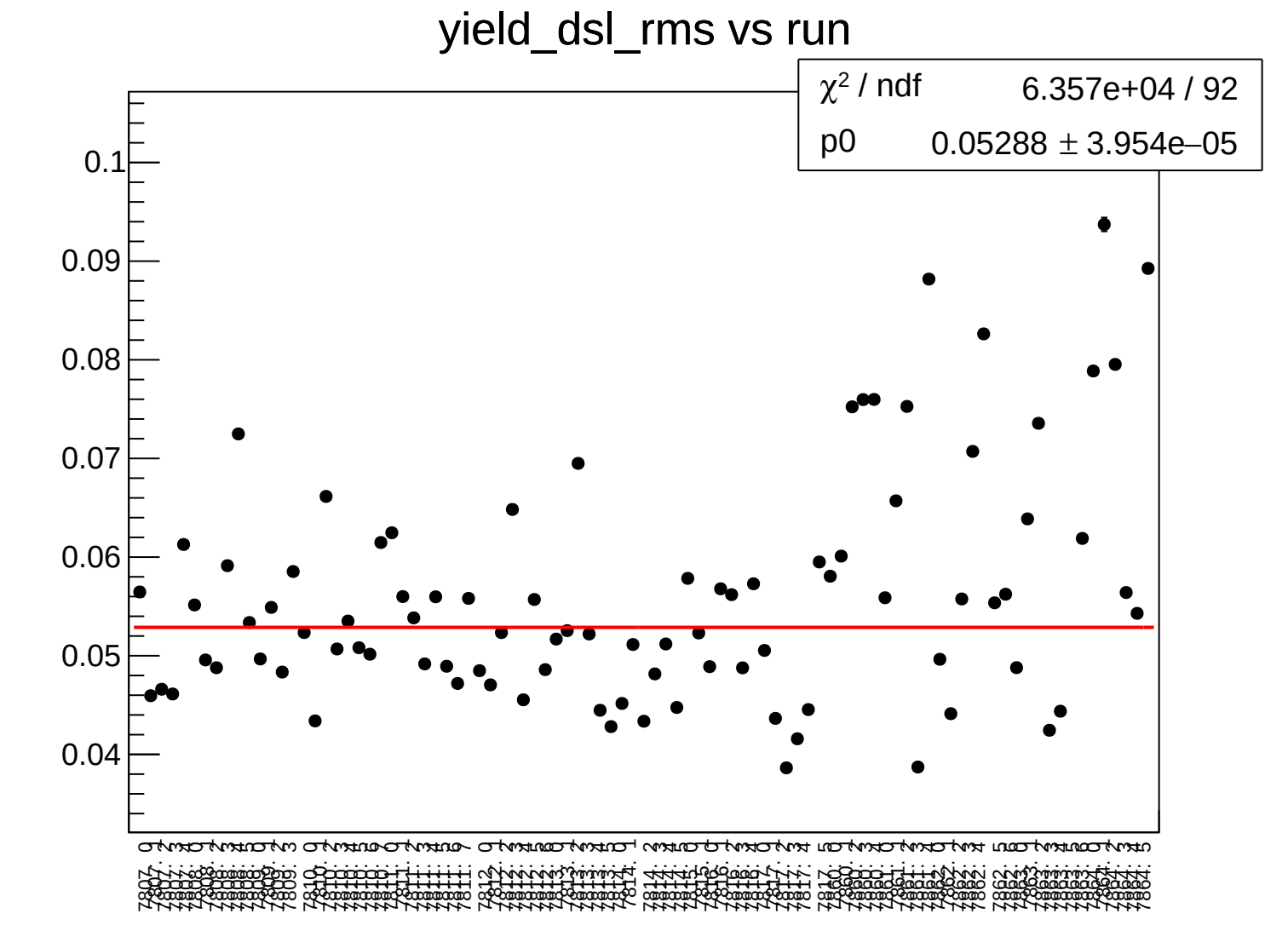

yield_usl_rms vs run
χ² / ndf 2.316e+04 / 92
p0 0.1366 ± 0.000101
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1

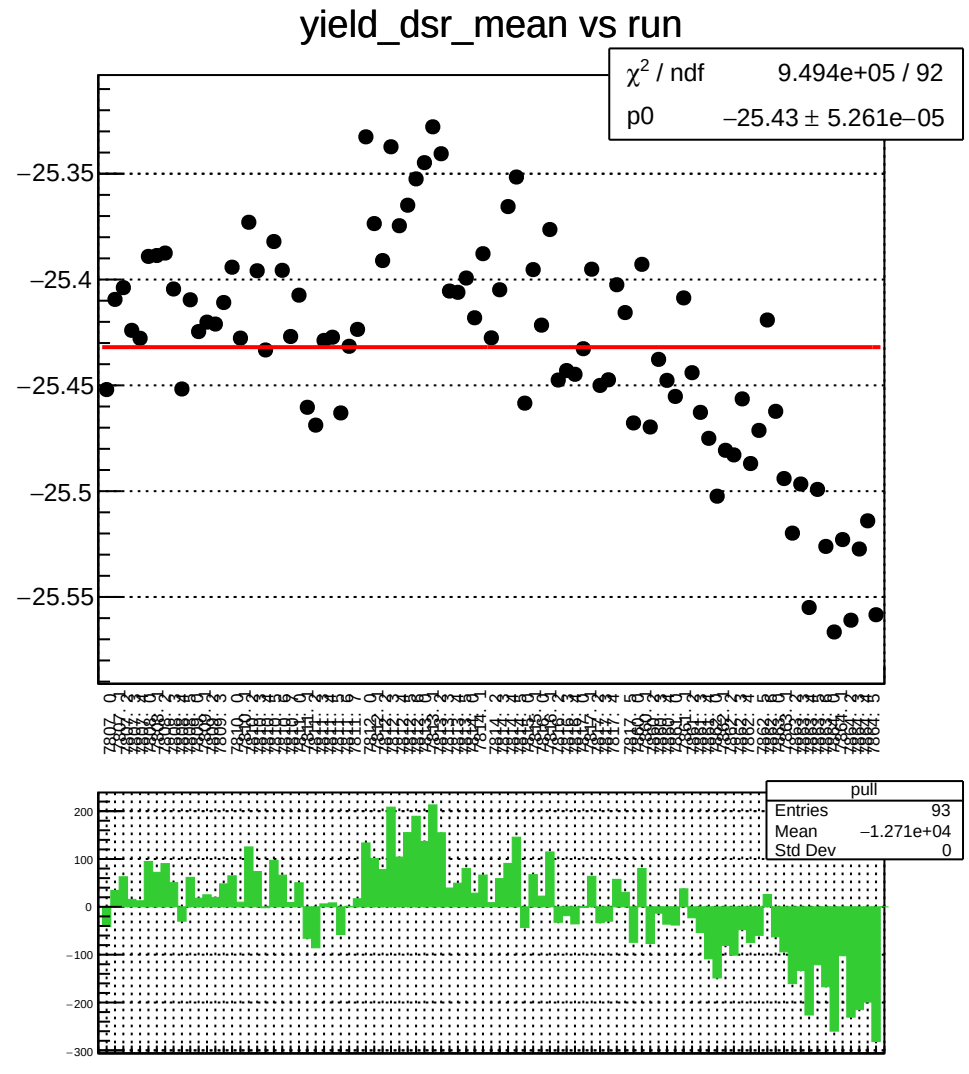

yield_usr_mean vs run
χ² / ndf 9.119e+04 / 92
p0 34.19 ± 0.0002337
34.4
34.35
34.3
34.25
34.2
34.15
34.1
34.05
34
pull
Entries 93
Mean 25.22
Std Dev 0
80
60
40
20
0
−20
−40
−60
pull1D
Entries 93
Mean −0.7725
Std Dev 4.832
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

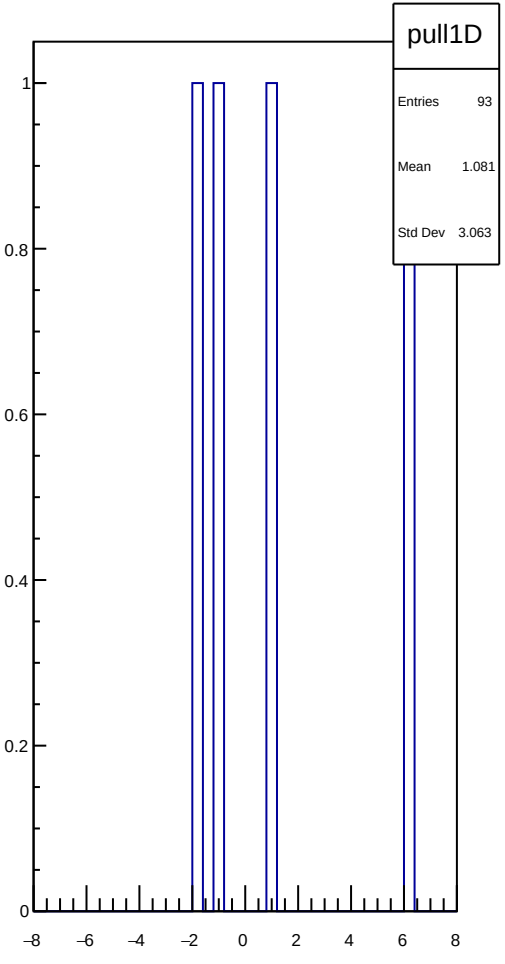

yield_usr_rms vs run
χ² / ndf 3.202e+04 / 92
p0 0.2229 ± 0.0001653
0.4
0.35
0.3
0.25
0.2

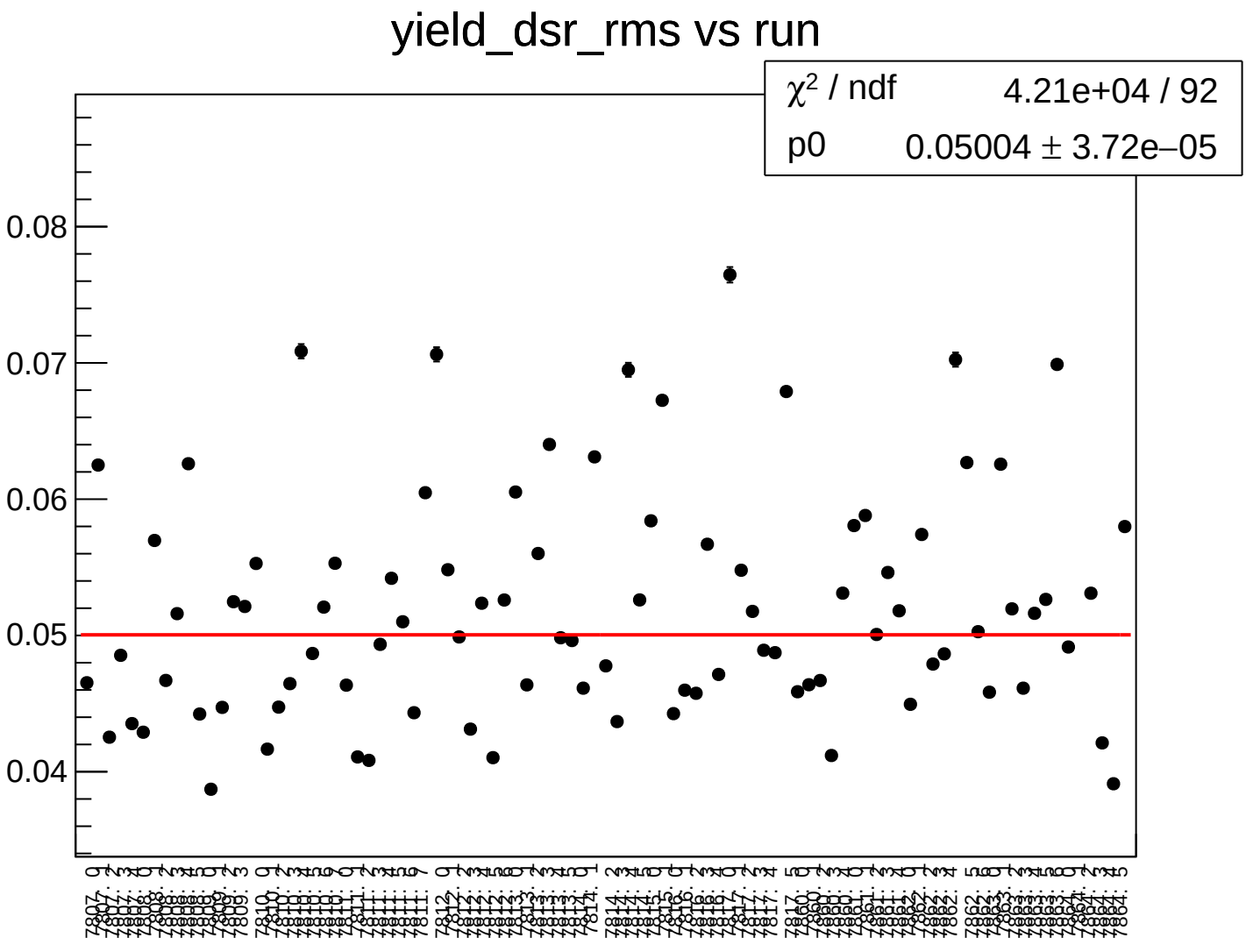

yield_dsl_mean vs run
χ² / ndf 2.492e+08 / 92
p0 −28.02 ± 5.592e−05
−27.5
−28
−28.5
−29
−29.5
pull
Entries 93
Mean 340.2
Std Dev 0
1000
0
−1000
−2000
−3000
−4000

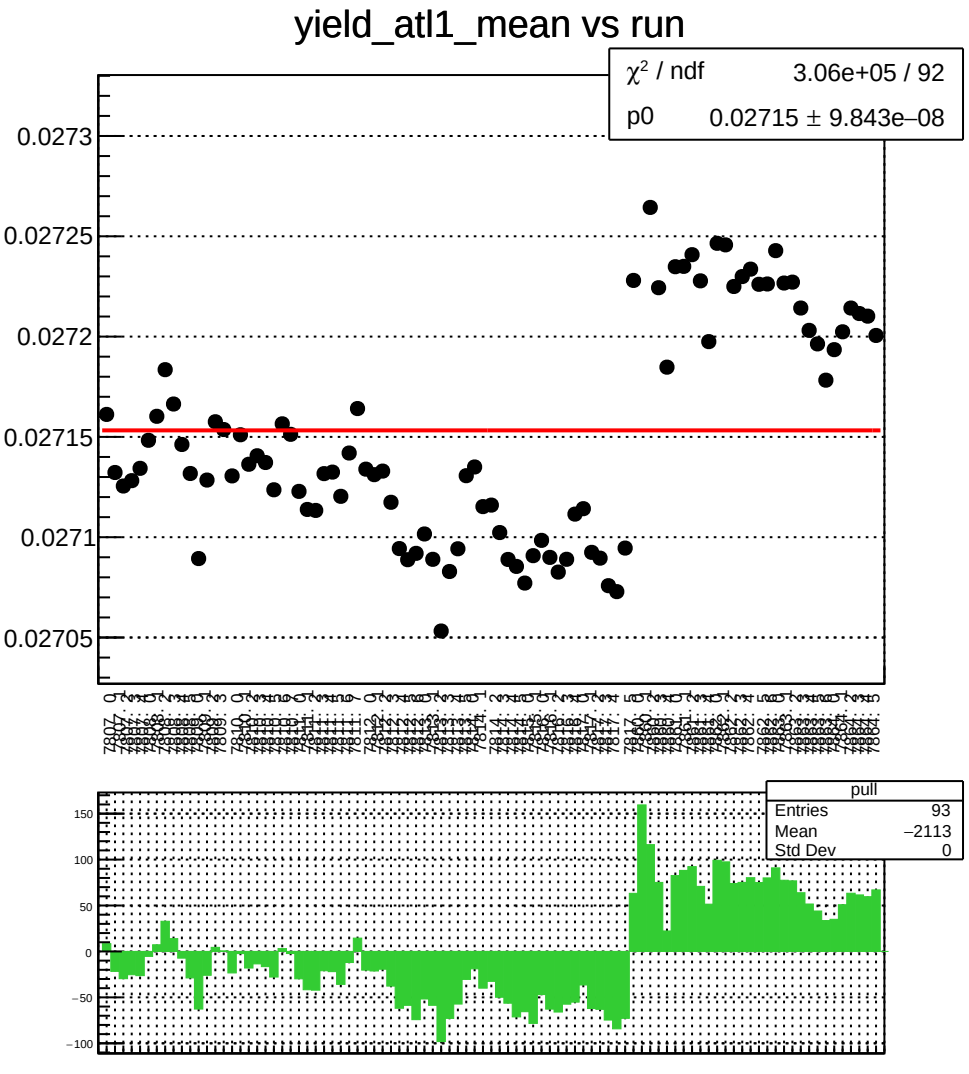

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

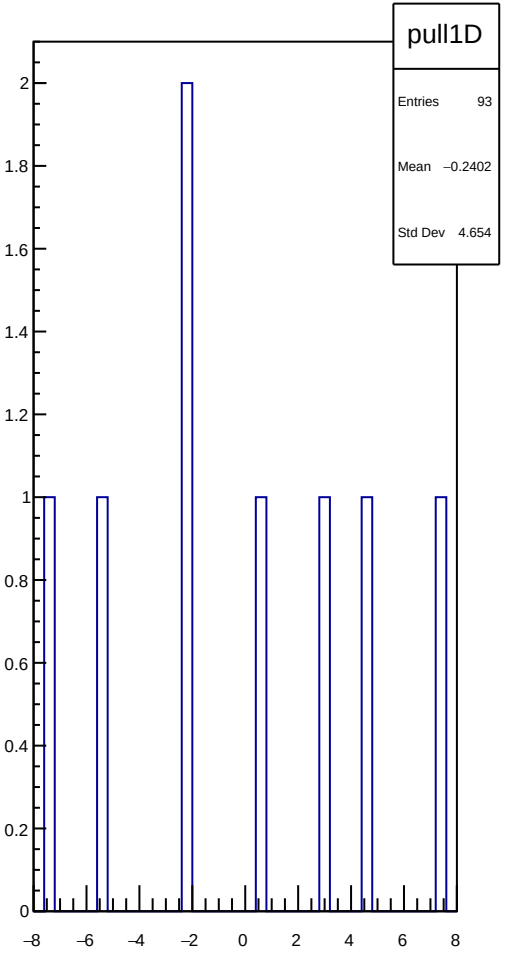

yield_dsl_rms vs run
χ² / ndf 6.357e+04 / 92
p0 0.05288 ± 3.954e–05
0.1
0.09
0.08
0.07
0.06
0.05
0.04

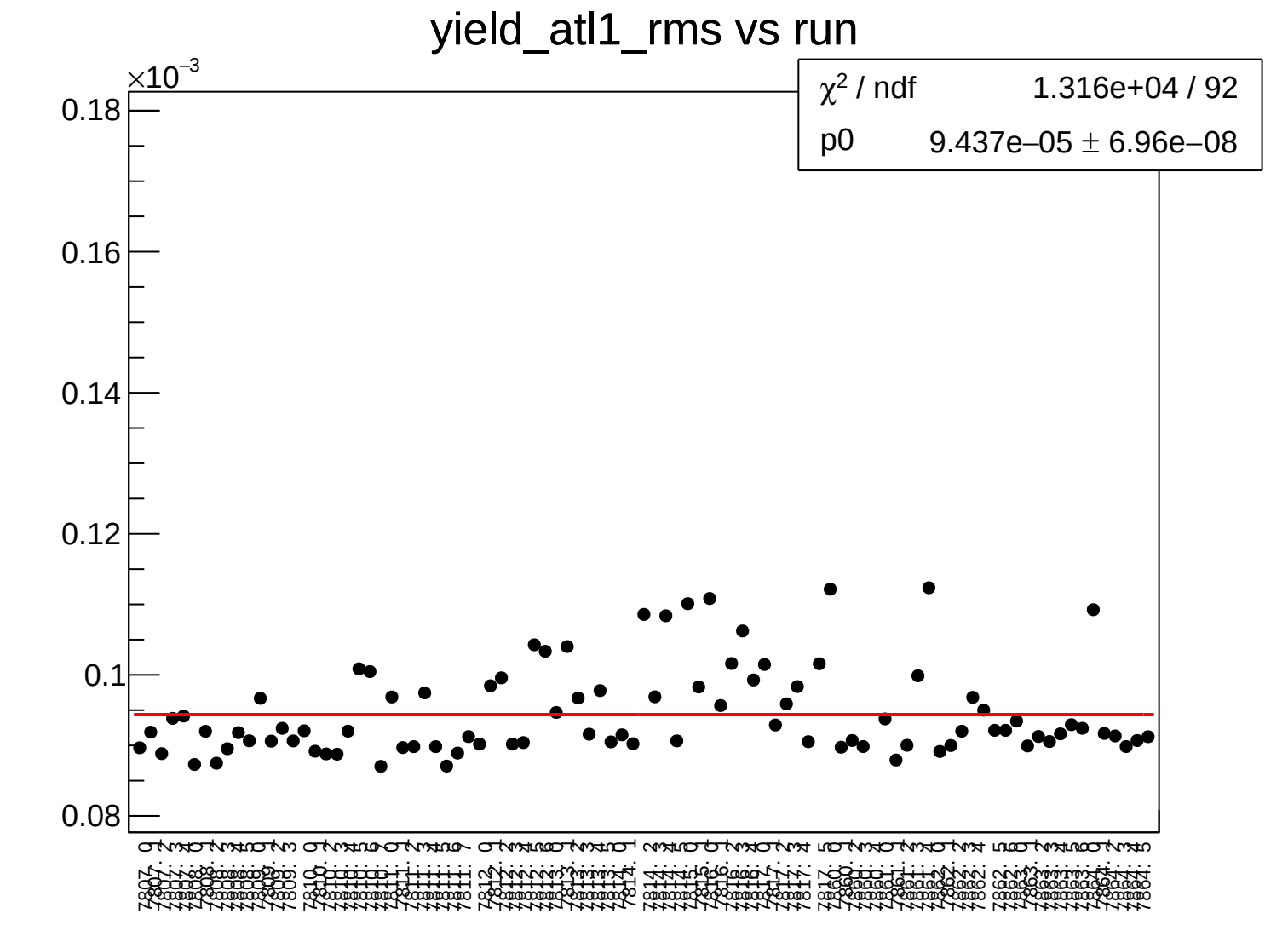

yield_dsr_mean vs run
χ² / ndf 9.494e+05 / 92
p0 −25.43 ± 5.261e−05
−25.35
−25.4
−25.45
−25.5
−25.55
pull
Entries 93
Mean −1.271e+04
Std Dev 0
200
100
0
−100
−200
−300

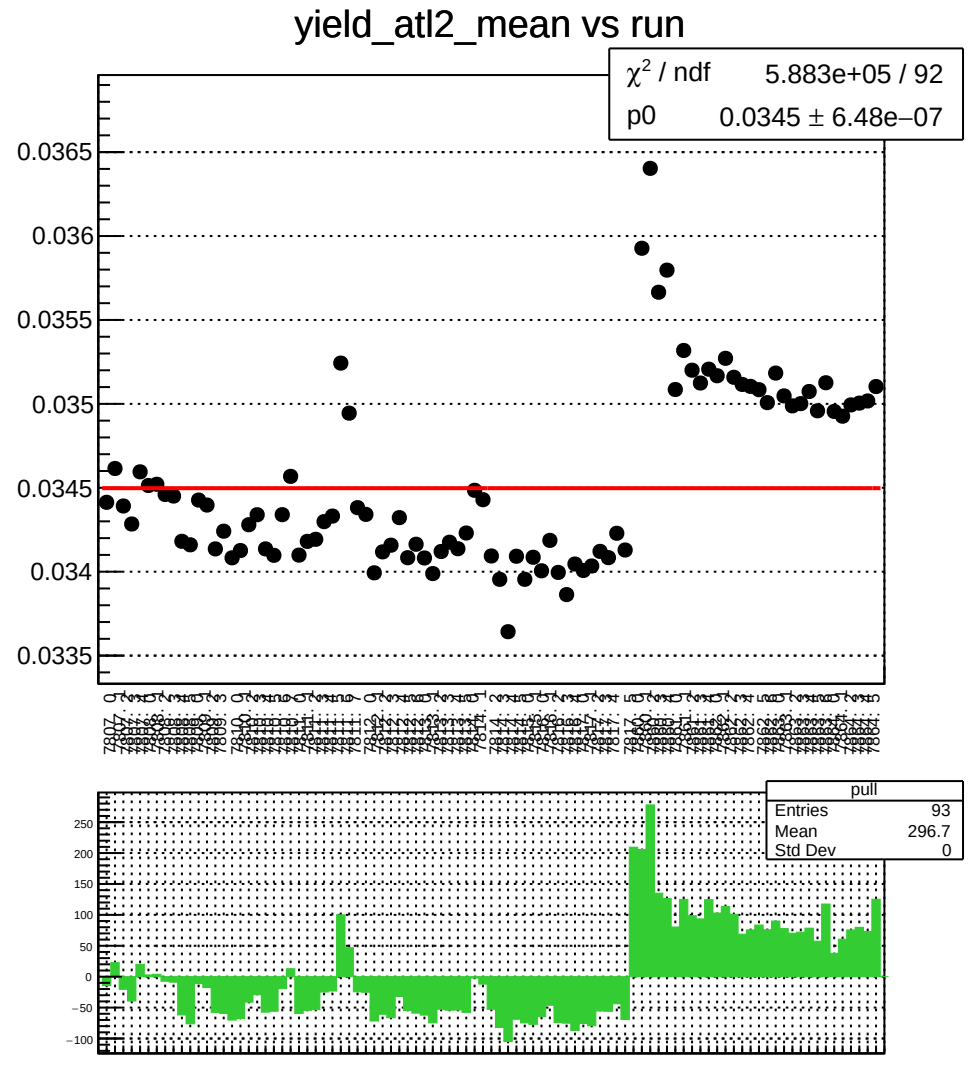

pull1D
Entries 93
Mean 1.081
Std Dev 3.063
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

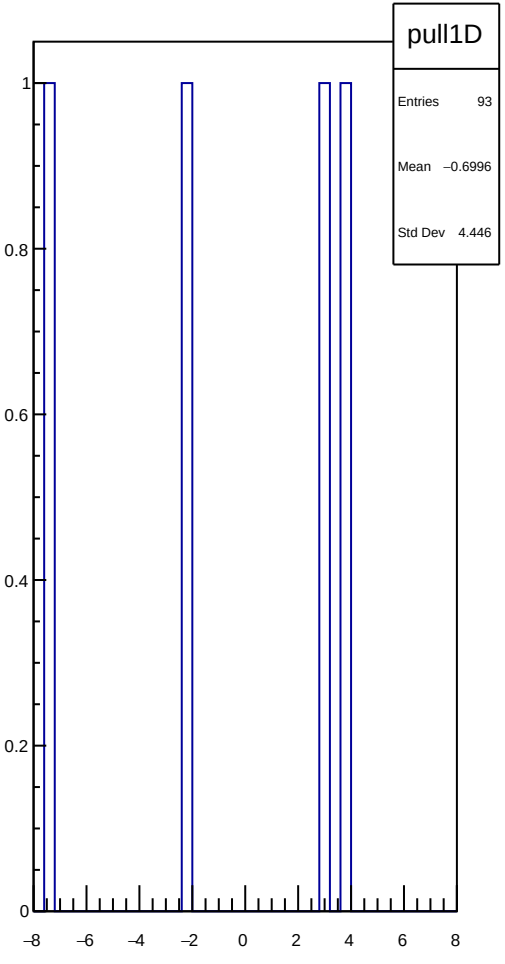

yield_dsr_rms vs run
χ² / ndf 4.21e+04 / 92
p0 0.05004 ± 3.72e−05
0.08
0.07
0.06
0.05
0.04

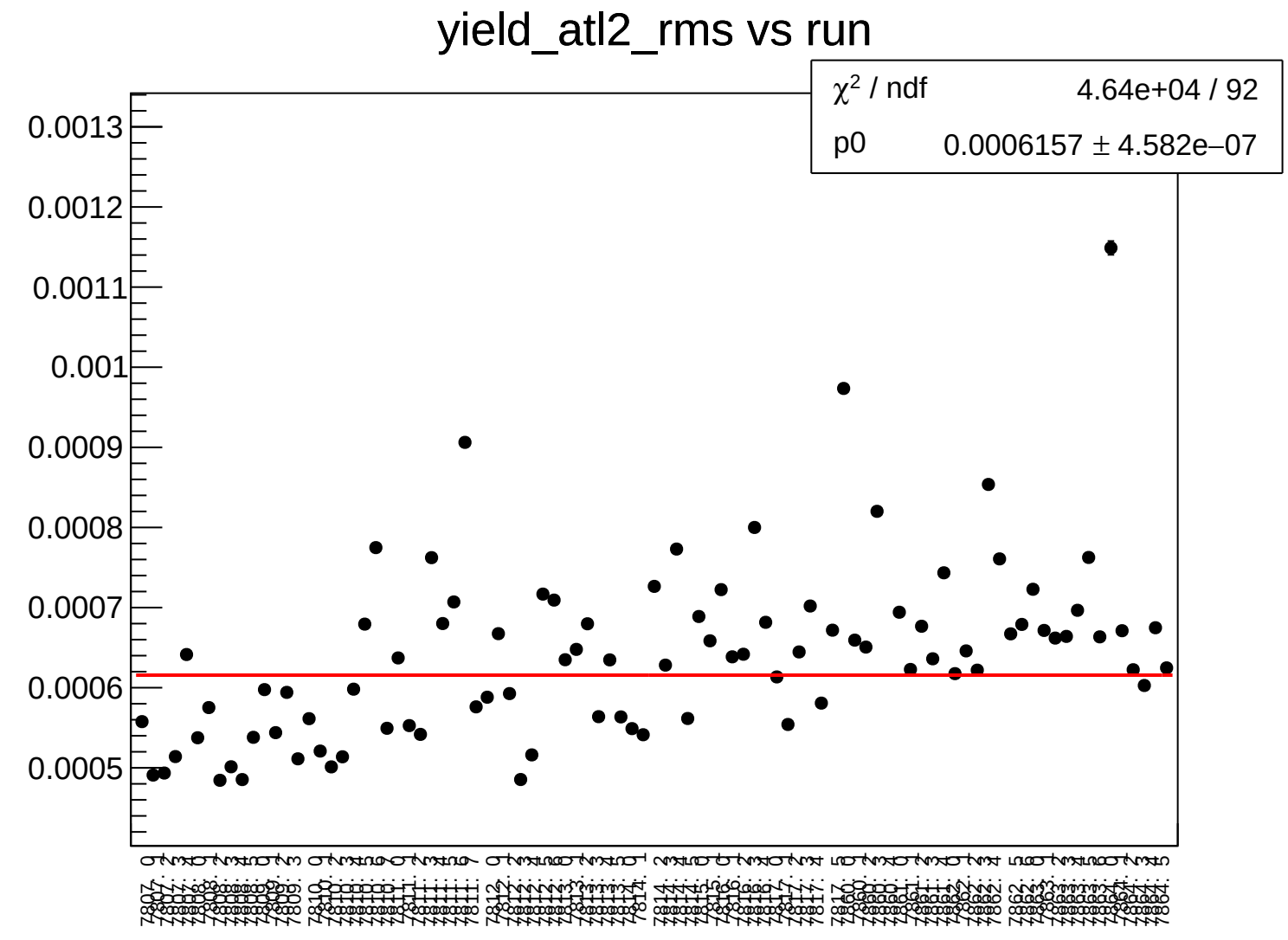

yield_atl1_mean vs run
χ² / ndf 3.06e+05 / 92
p0 0.02715 ± 9.843e−08
0.0273
0.02725
0.0272
0.02715
0.0271
0.02705
pull
Entries 93
Mean −2113
Std Dev 0
150
100
50
0
−50
−100

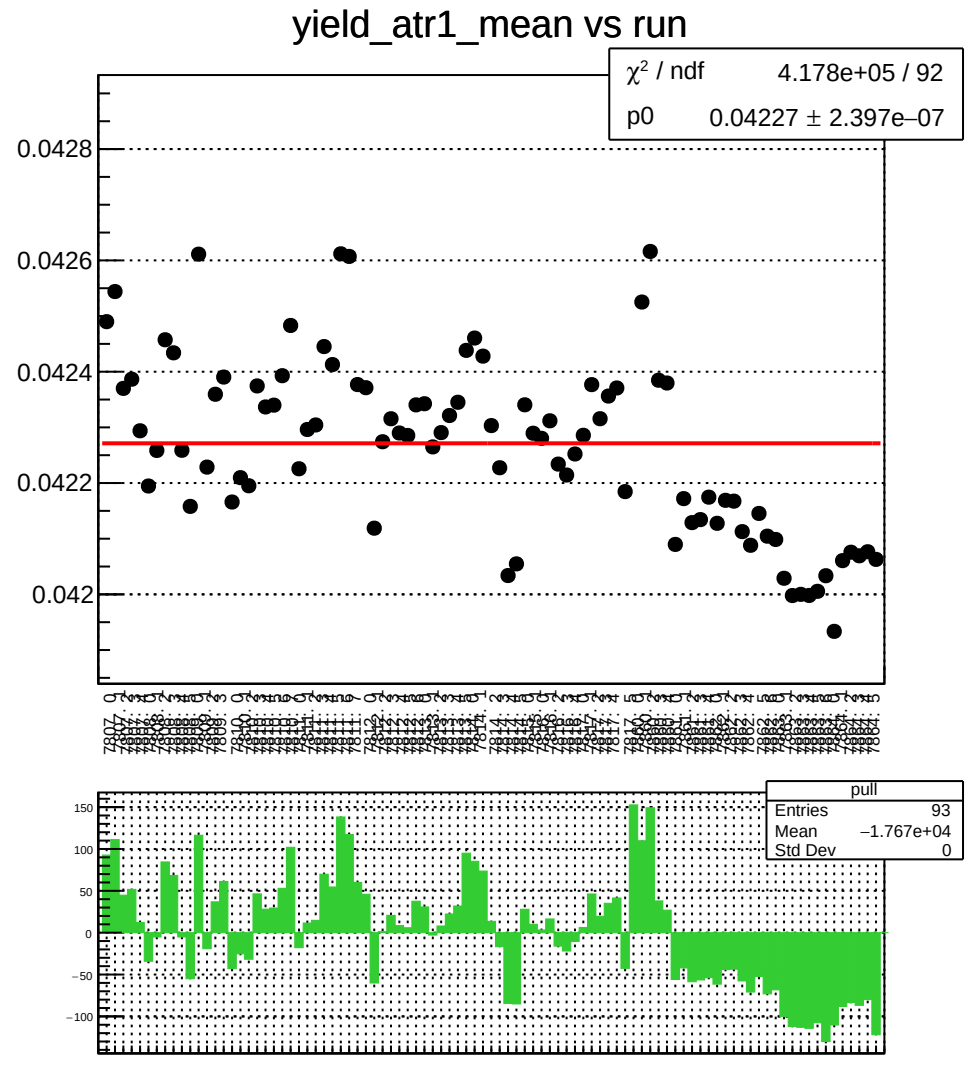

pull1D
Entries 93
Mean −0.2402
Std Dev 4.654
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

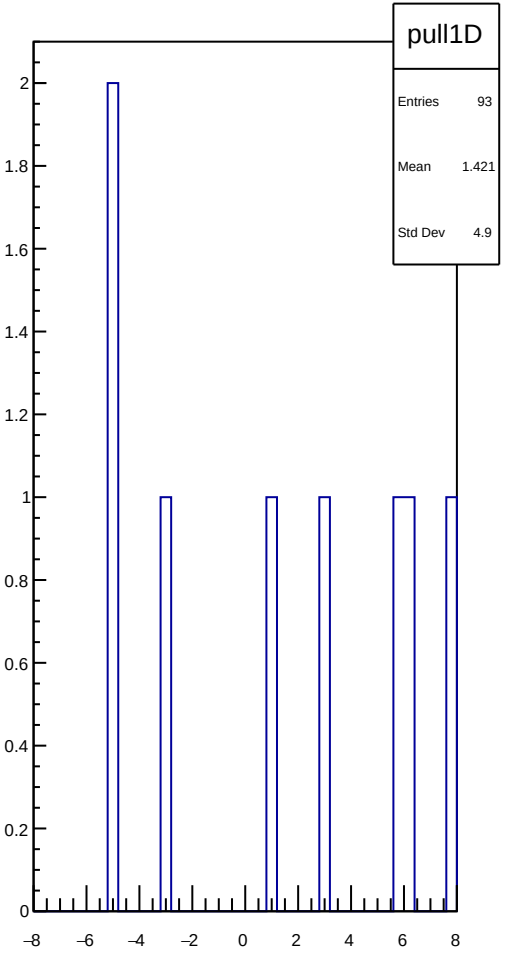

yield_atl1_rms vs run
×10⁻³
χ² / ndf 1.316e+04 / 92
p0 9.437e−05 ± 6.96e−08
0.18
0.16
0.14
0.12
0.1
0.08

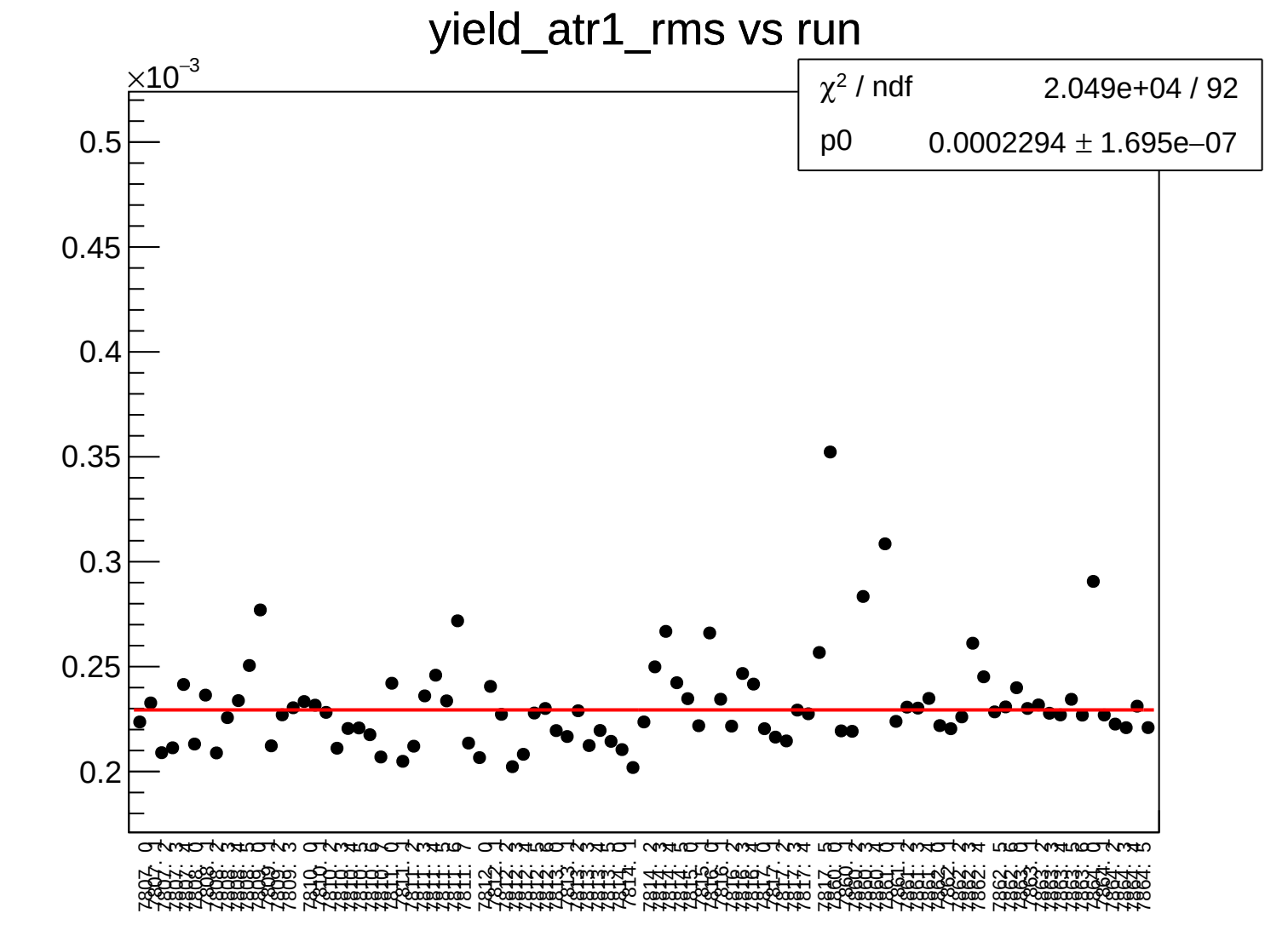

yield_atl2_mean vs run
χ² / ndf 5.883e+05 / 92
p0 0.0345 ± 6.48e−07
0.0365
0.036
0.0355
0.035
0.0345
0.034
0.0335
pull
Entries 93
Mean 296.7
Std Dev 0
250
200
150
100
50
0
−50
−100

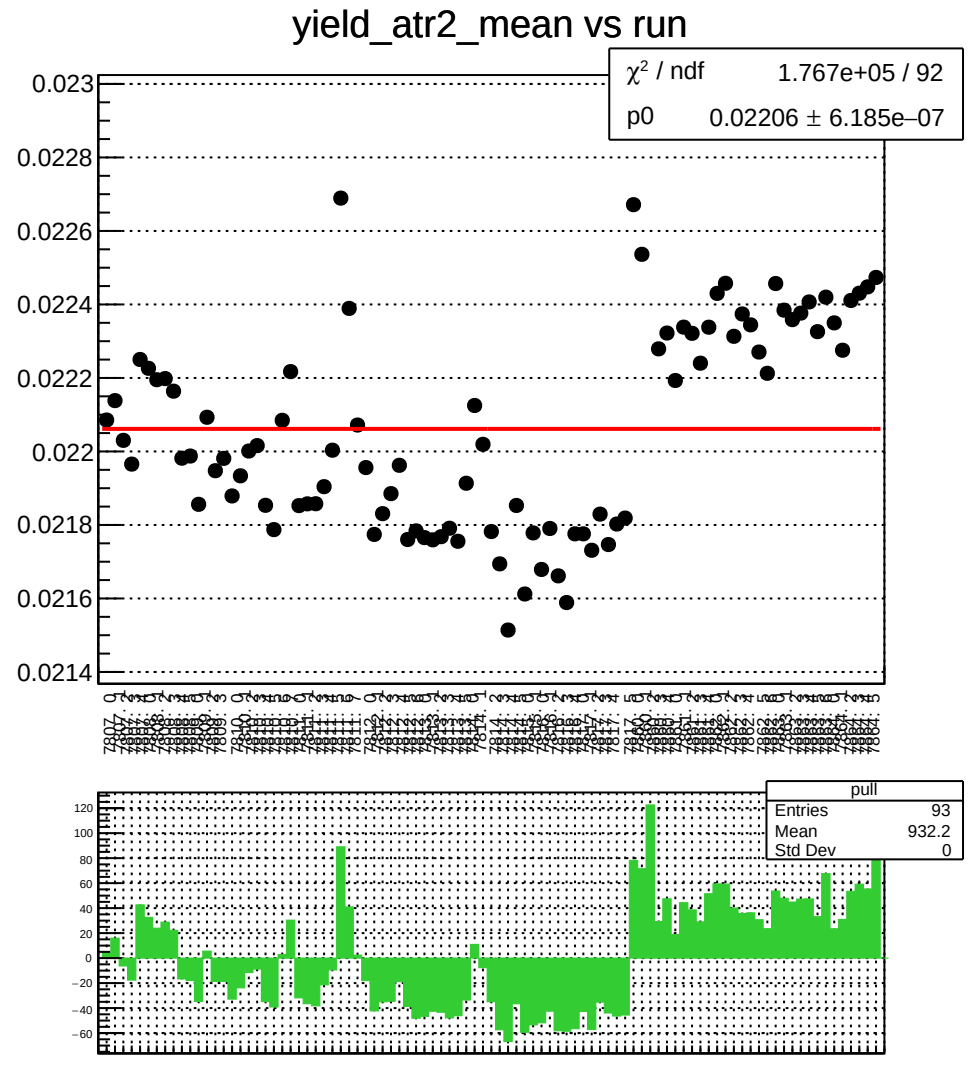

pull1D
Entries 93
Mean −0.6996
Std Dev 4.446
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

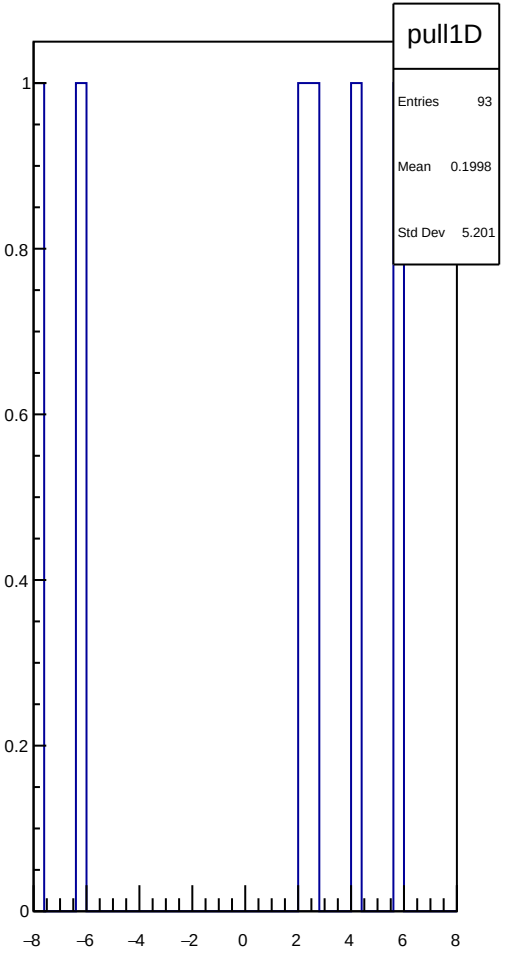

yield_atl2_rms vs run
χ² / ndf 4.64e+04 / 92
p0 0.0006157 ± 4.582e−07
0.0013
0.0012
0.0011
0.001
0.0009
0.0008
0.0007
0.0006
0.0005

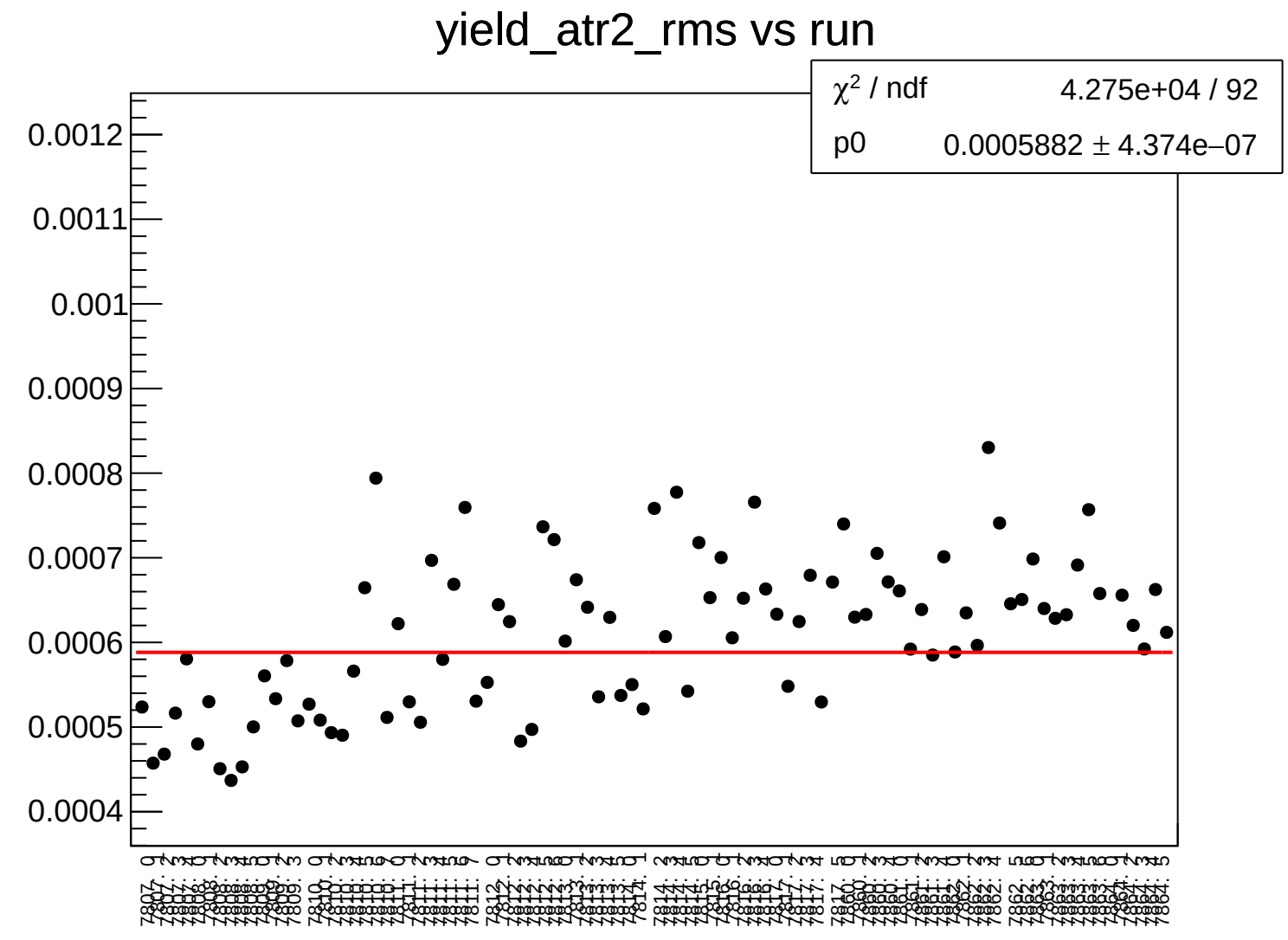

yield_atr1_mean vs run
χ² / ndf 4.178e+05 / 92
p0 0.04227 ± 2.397e−07
0.0428
0.0426
0.0424
0.0422
0.042
pull
Entries 93
Mean −1.767e+04
Std Dev 0
150
100
50
0
−50
−100

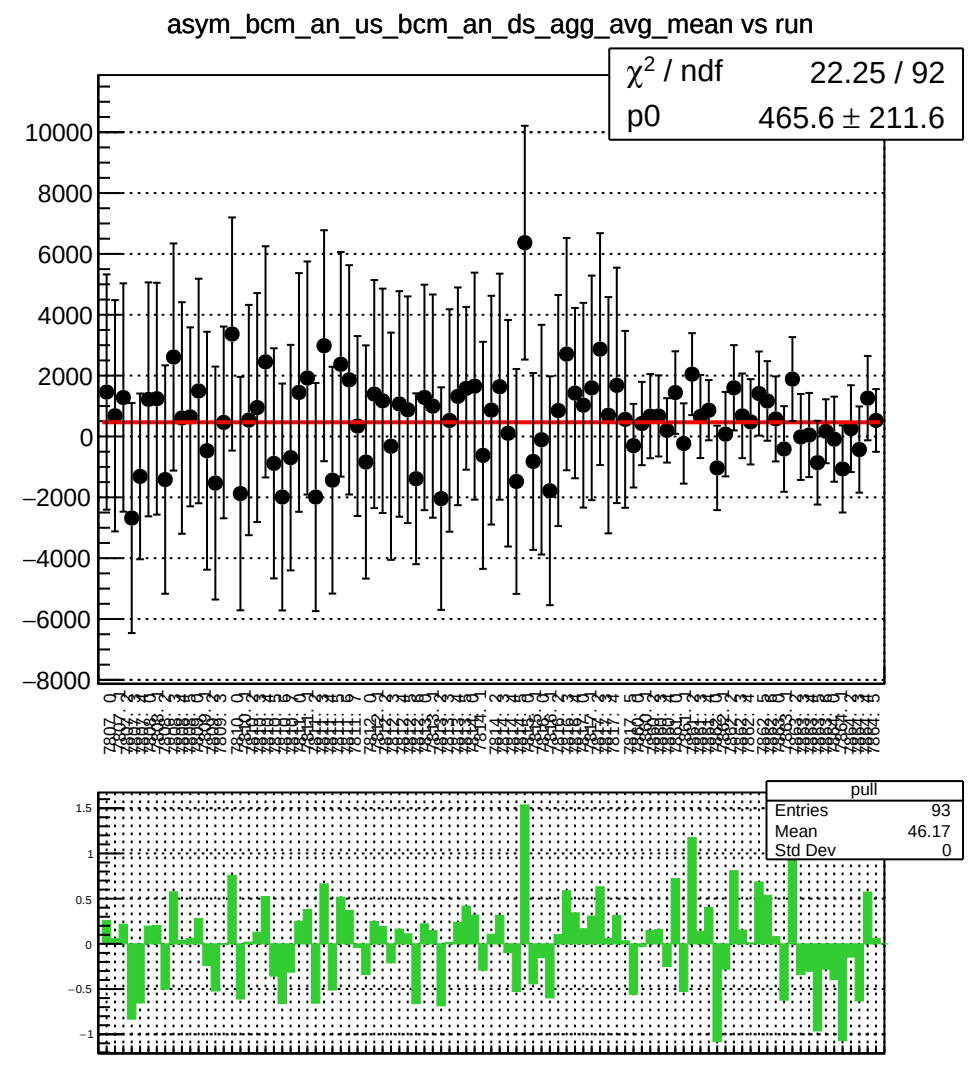

pull1D
Entries 93
Mean 1.421
Std Dev 4.9
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

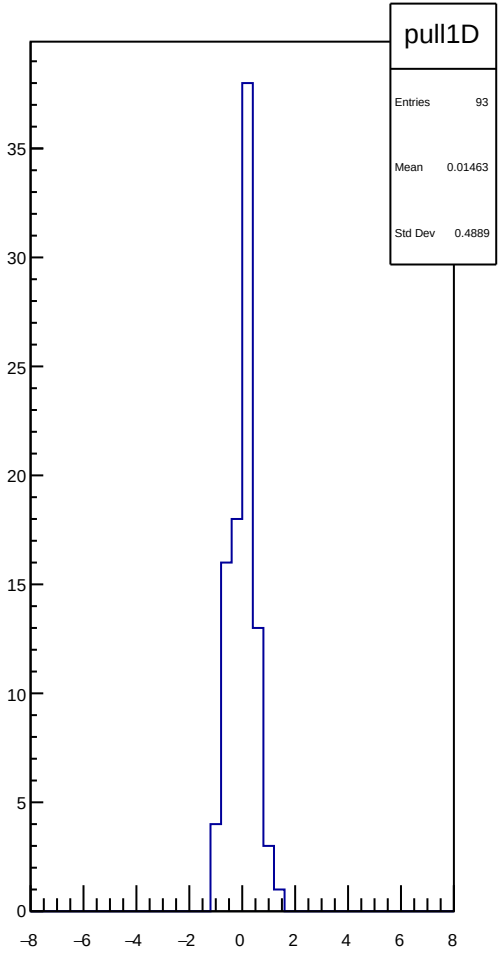

yield_atr1_rms vs run
×10⁻³
χ² / ndf 2.049e+04 / 92
p0 0.0002294 ± 1.695e−07
0.5
0.45
0.4
0.35
0.3
0.25
0.2

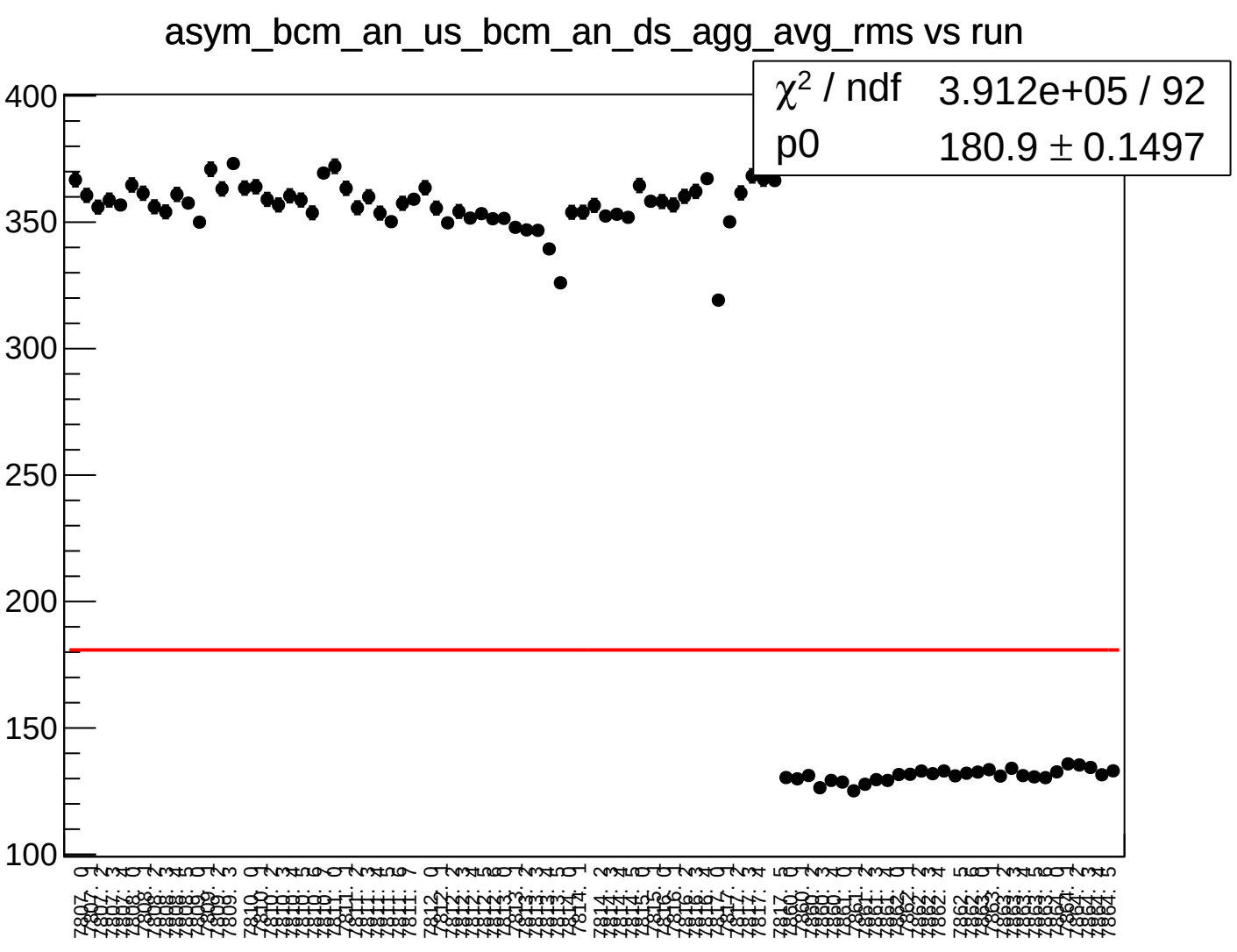

yield_atr2_mean vs run
χ² / ndf 1.767e+05 / 92
p0 0.02206 ± 6.185e−07
0.023
0.0228
0.0226
0.0224
0.0222
0.022
0.0218
0.0216
0.0214
pull
Entries 93
Mean 932.2
Std Dev 0
120
100
80
60
40
20
0
−20
−40
−60

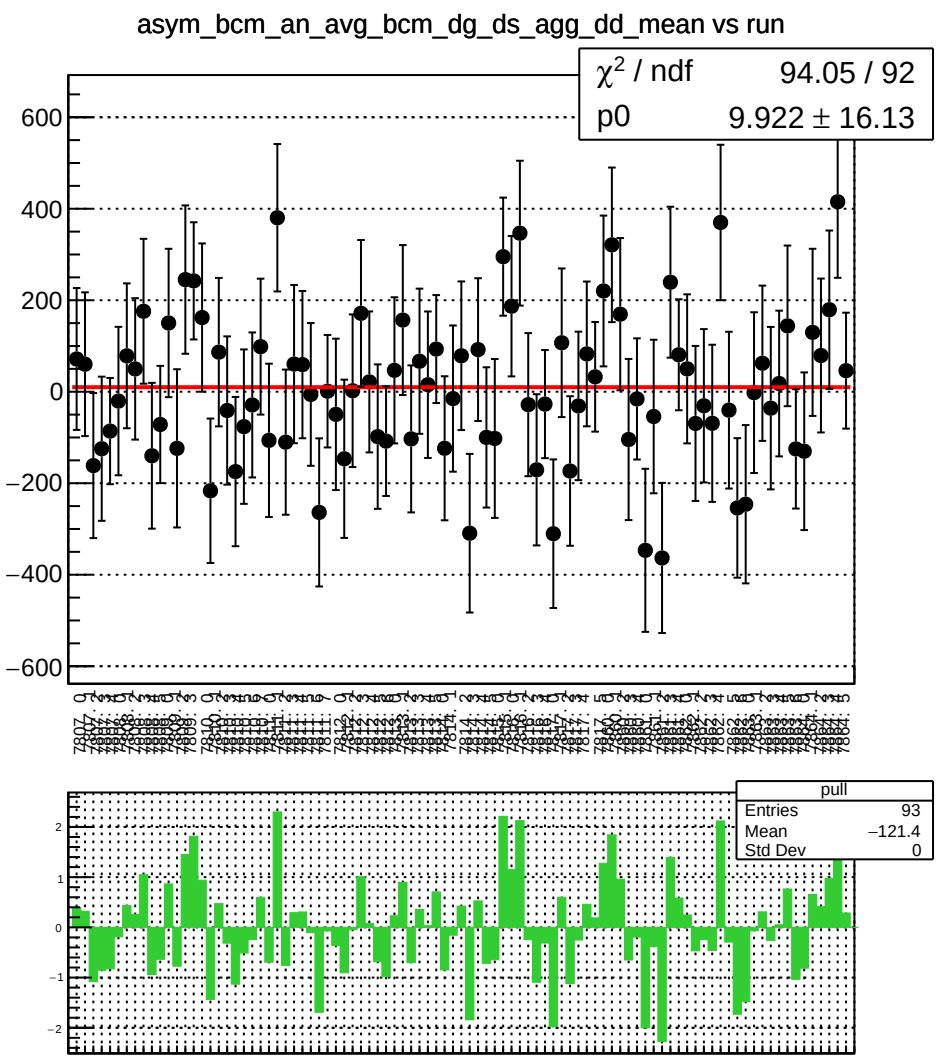

pull1D
Entries 93
Mean 0.1998
Std Dev 5.201
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

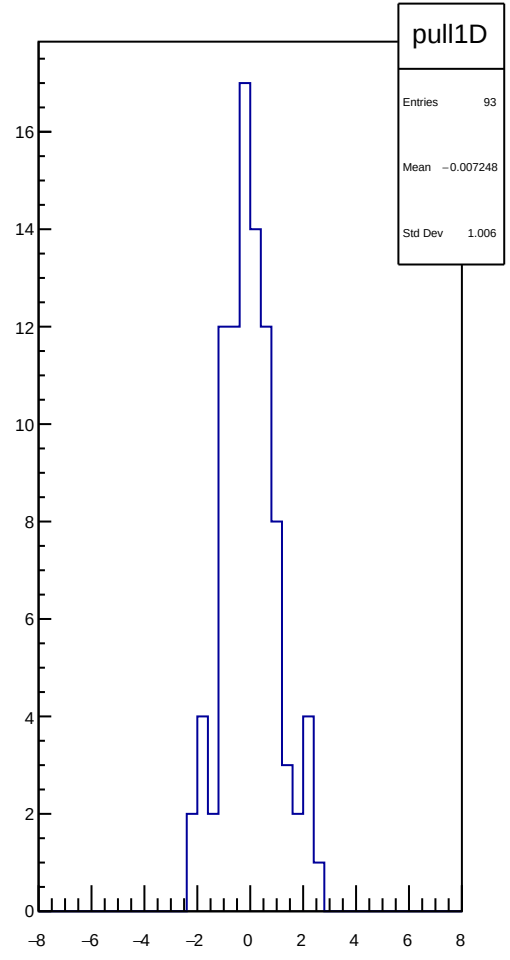

yield_atr2_rms vs run
χ² / ndf 4.275e+04 / 92
p0 0.0005882 ± 4.374e−07
0.0012
0.0011
0.001
0.0009
0.0008
0.0007
0.0006
0.0005
0.0004

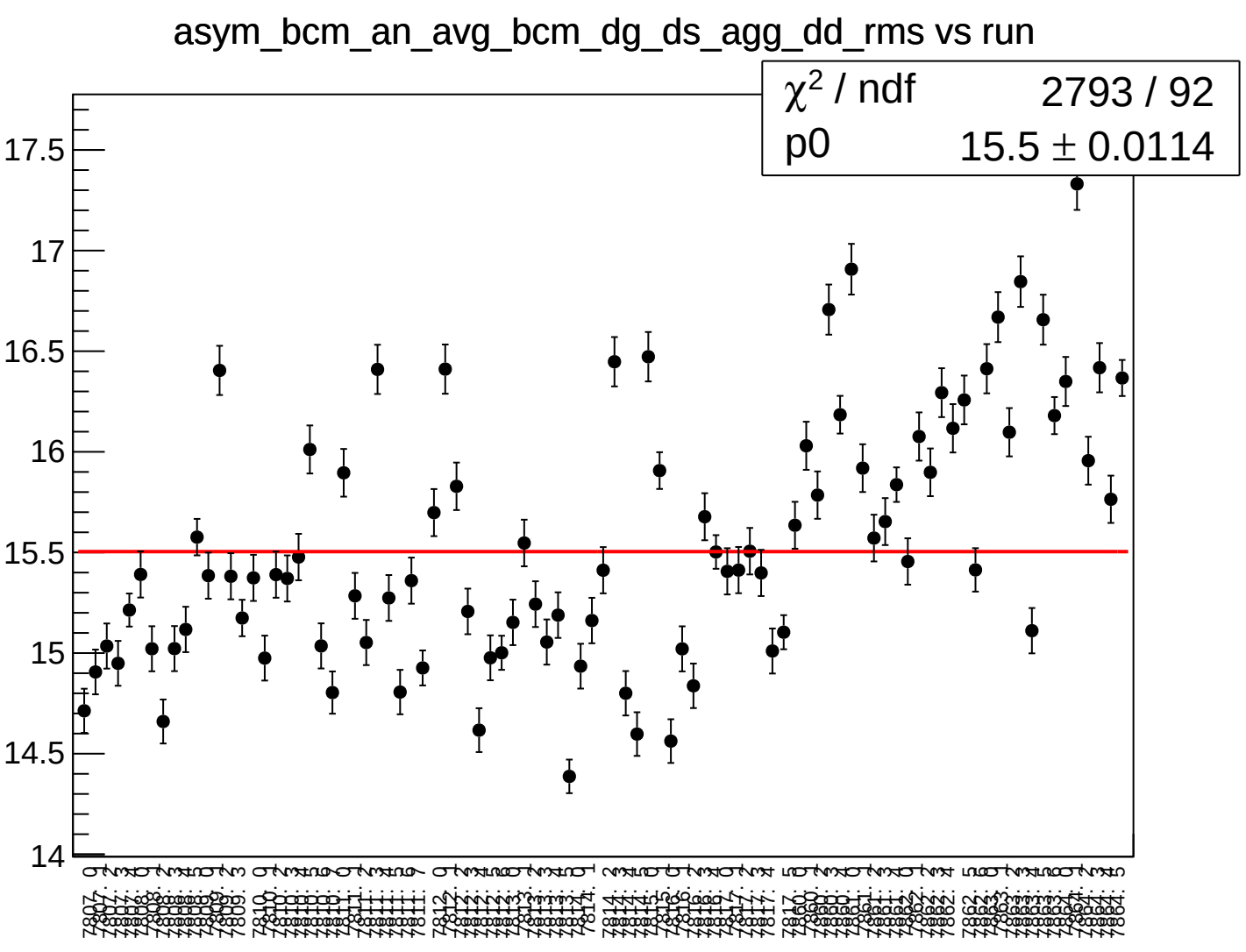

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 22.25 / 92
p0 465.6 ± 211.6
pull
Entries 93
Mean 46.17
Std Dev 0

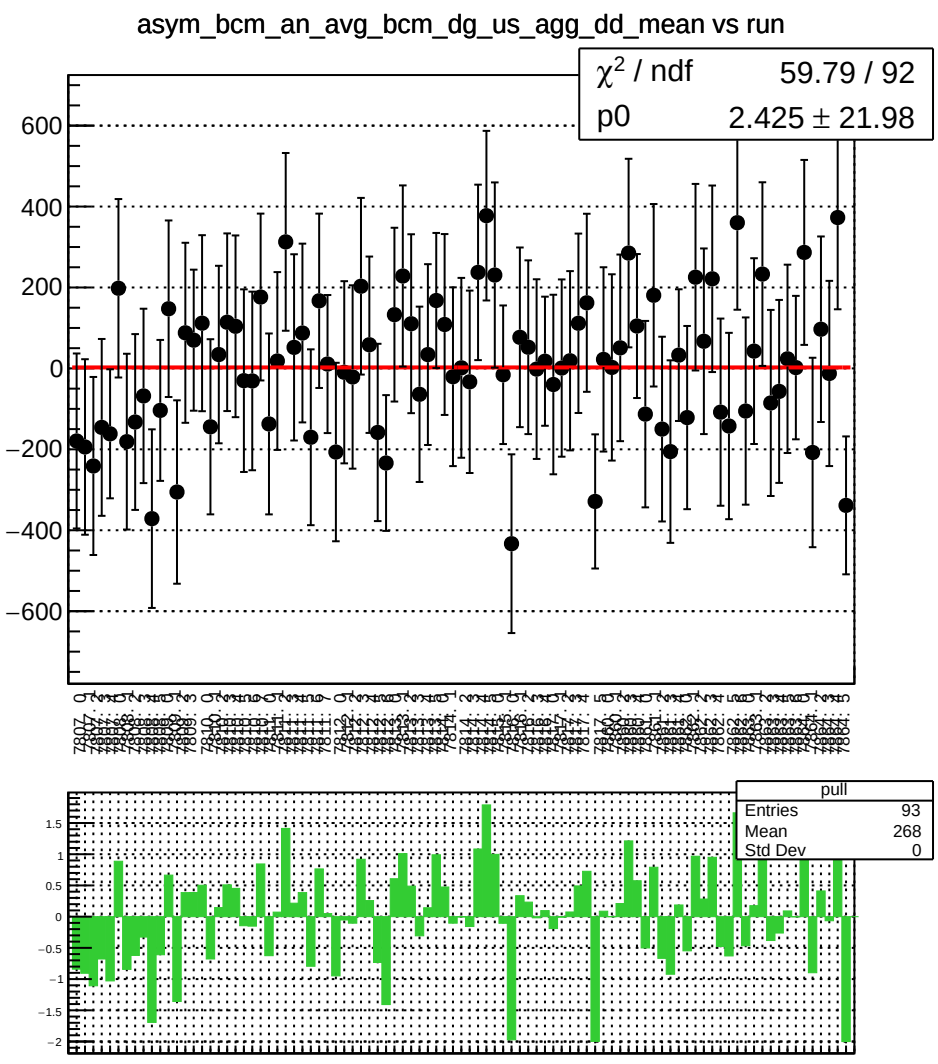

pull1D
Entries 93
Mean 0.01463
Std Dev 0.4889

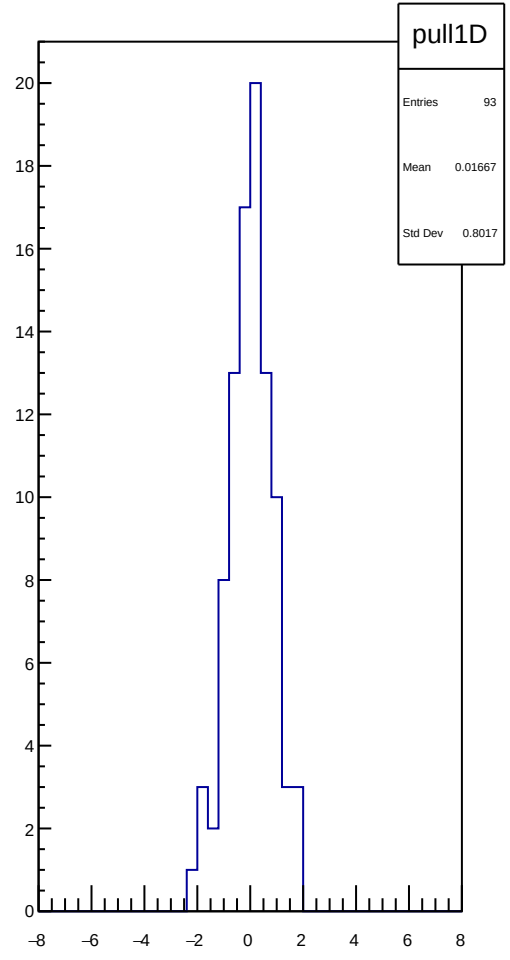

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3.912e+05 / 92
p0 180.9 ± 0.1497
400
350
300
250
200
150
100

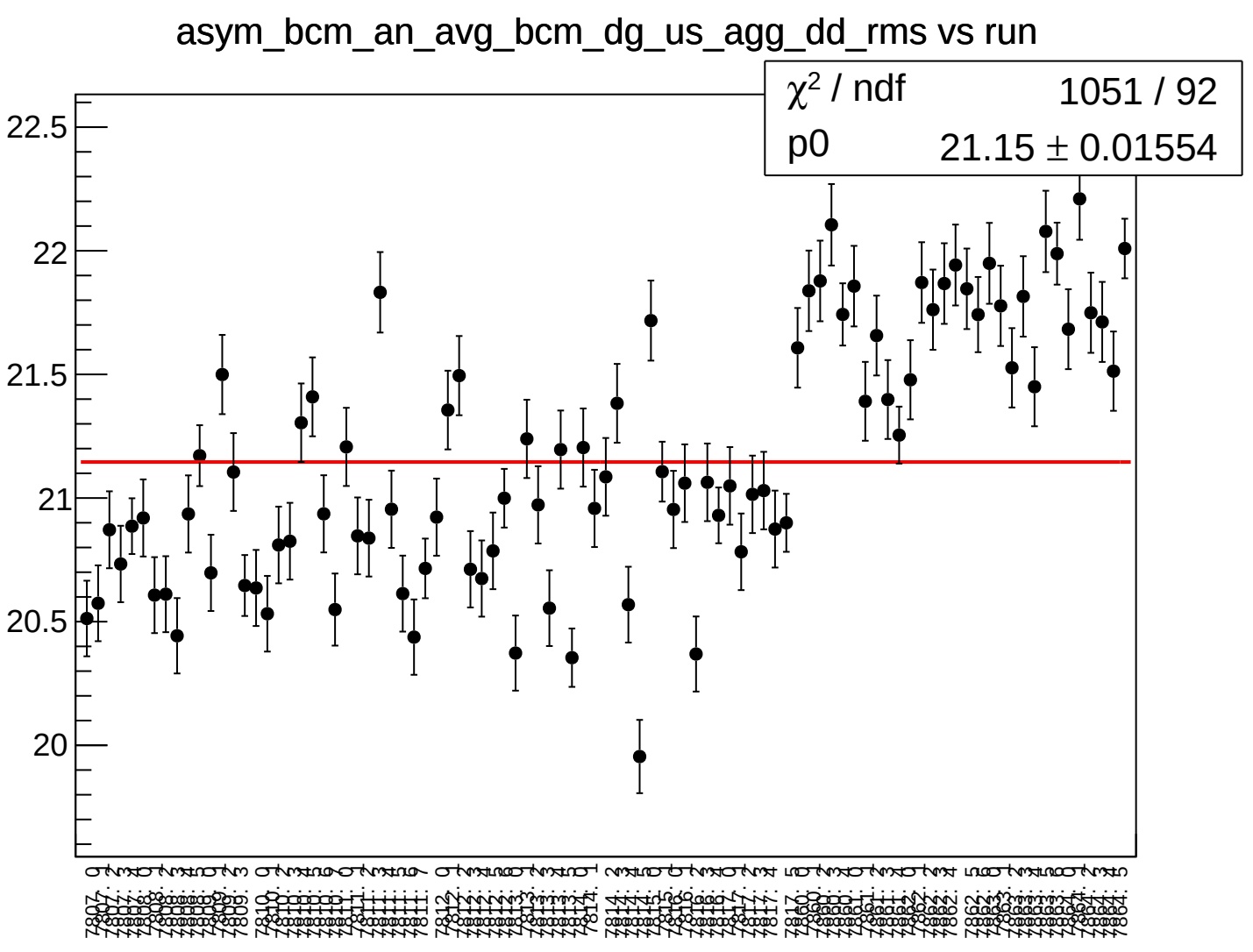

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 94.05 / 92
p0 9.922 ± 16.13
pull
Entries 93
Mean −121.4
Std Dev 0

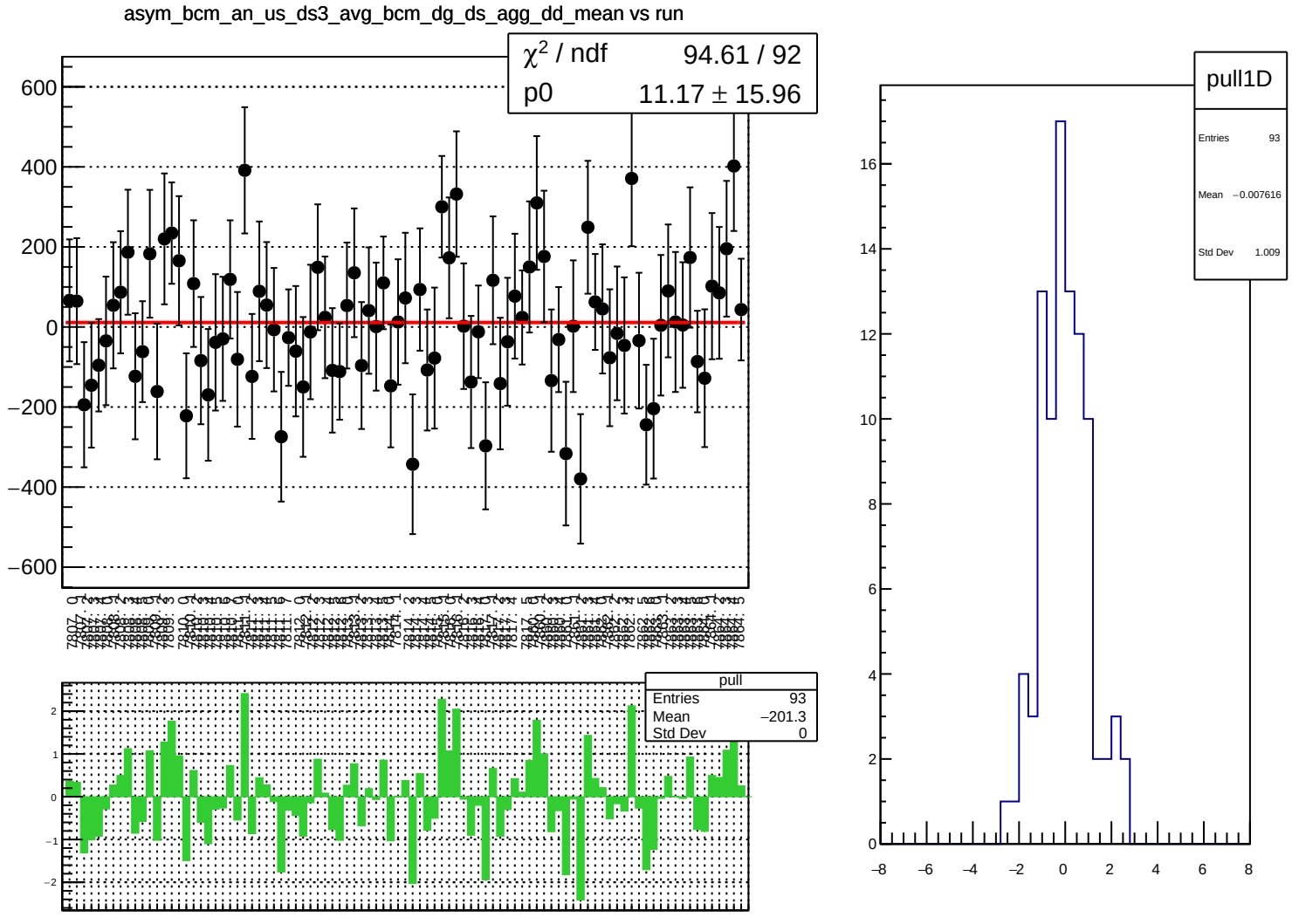

pull1D
Entries 93
Mean −0.007248
Std Dev 1.006

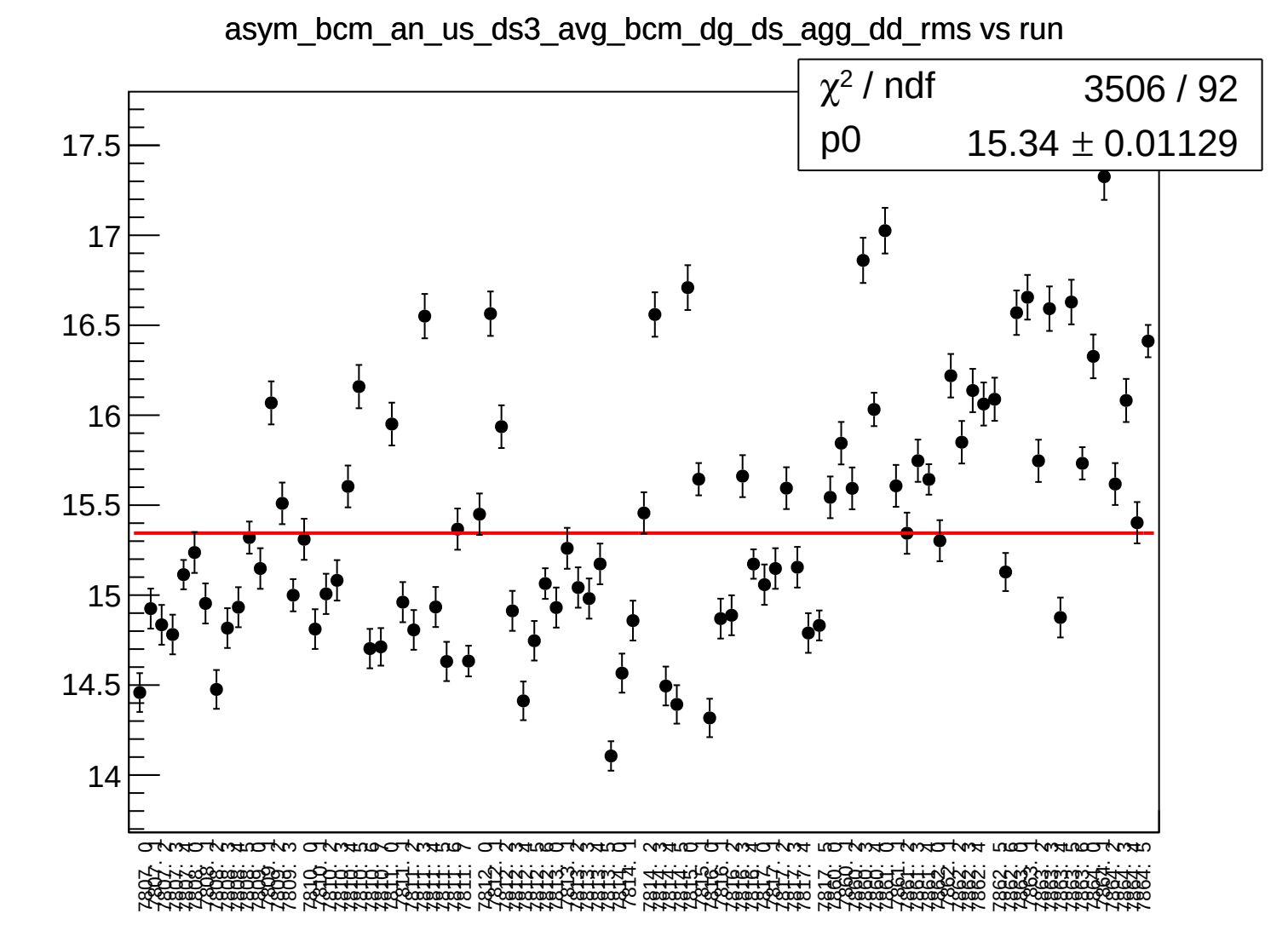

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2793 / 92
p0 15.5 ± 0.0114
17.5
17
16.5
16
15.5
15
14.5
14

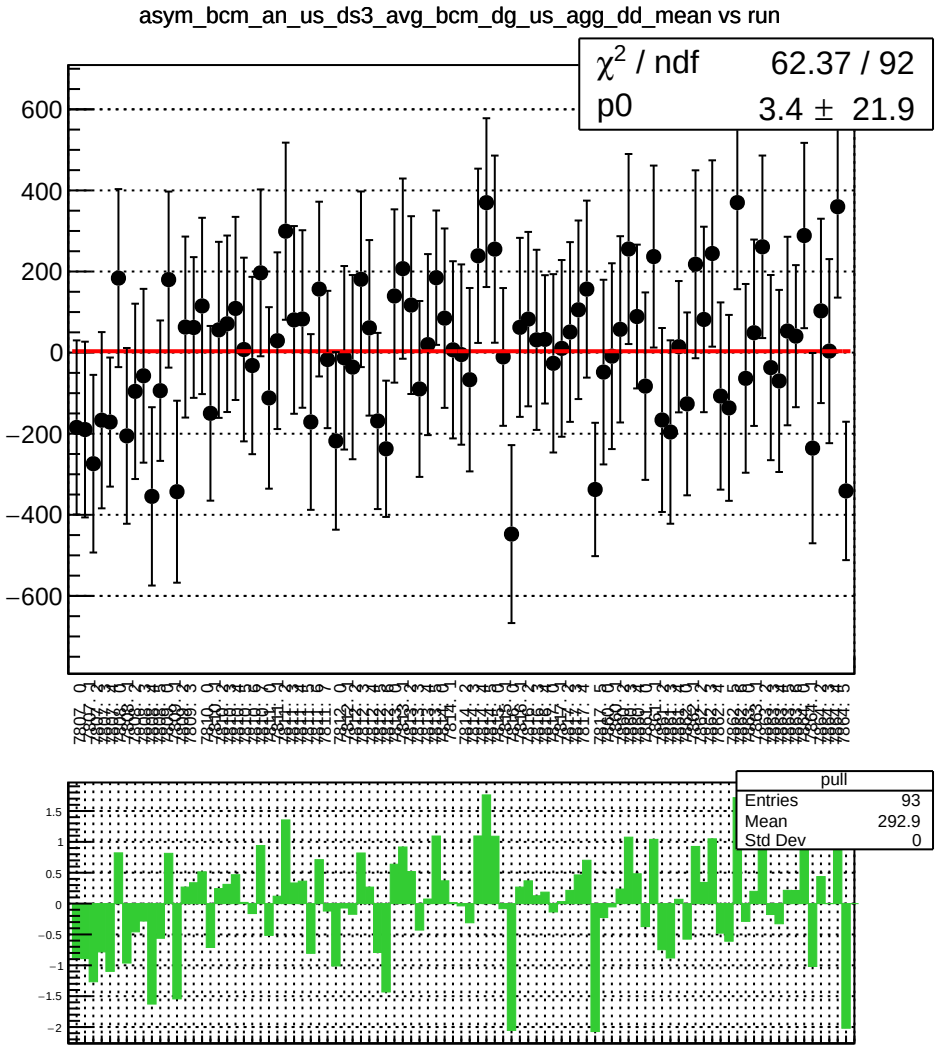

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 59.79 / 92
p0 2.425 ± 21.98
600
400
200
0
−200
−400
−600
pull
Entries 93
Mean 268
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

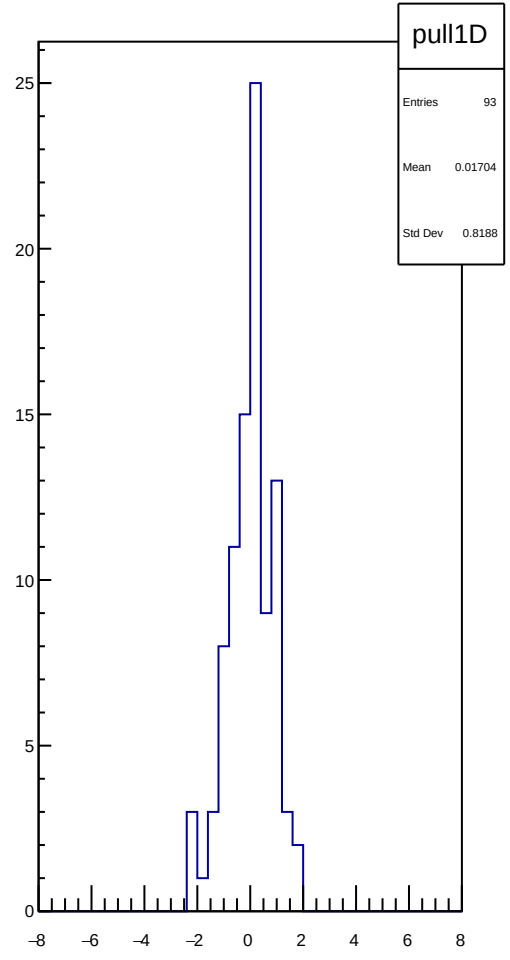

pull1D
Entries 93
Mean 0.01667
Std Dev 0.8017
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

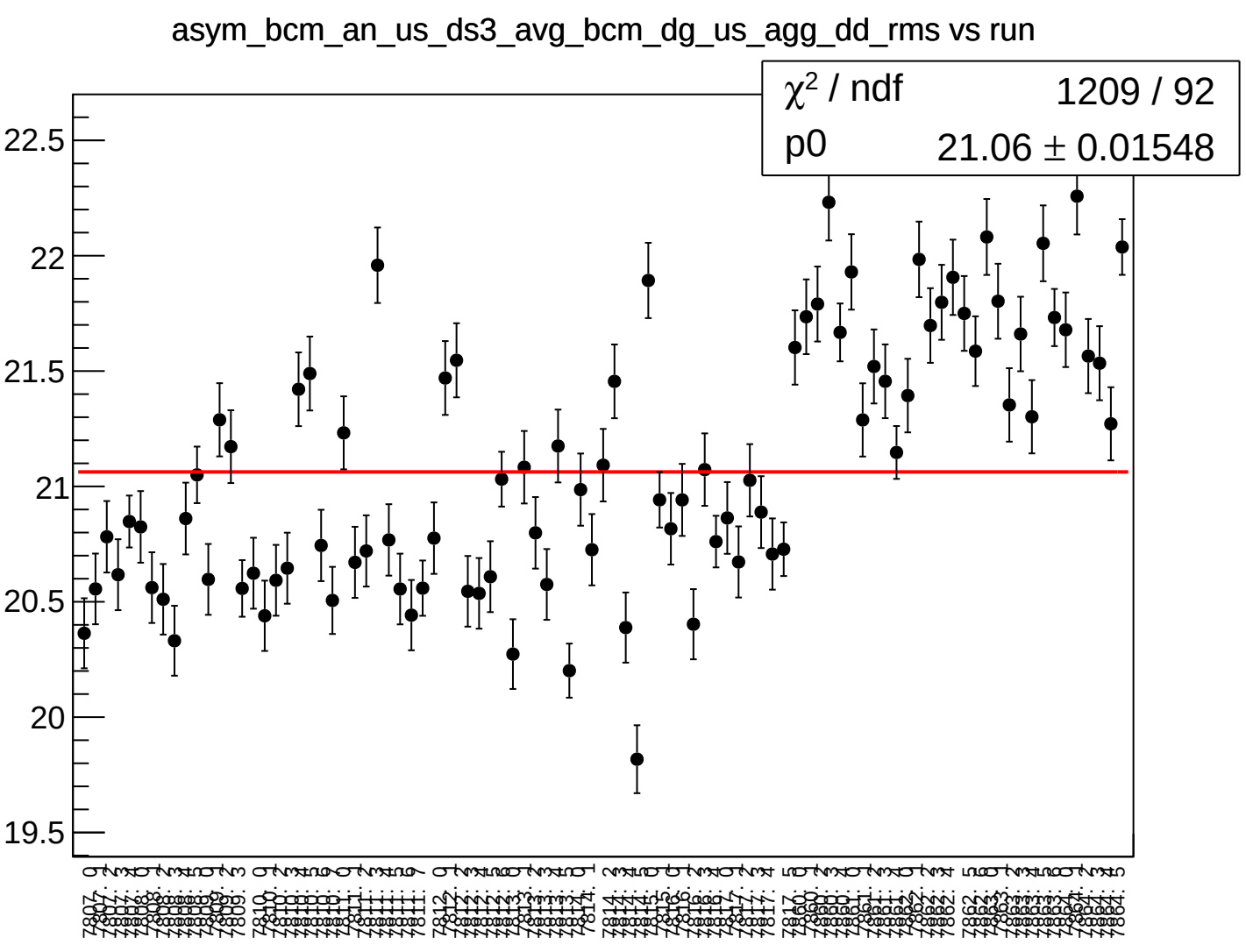

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1051 / 92
p0 21.15 ± 0.01554
22.5
22
21.5
21
20.5
20

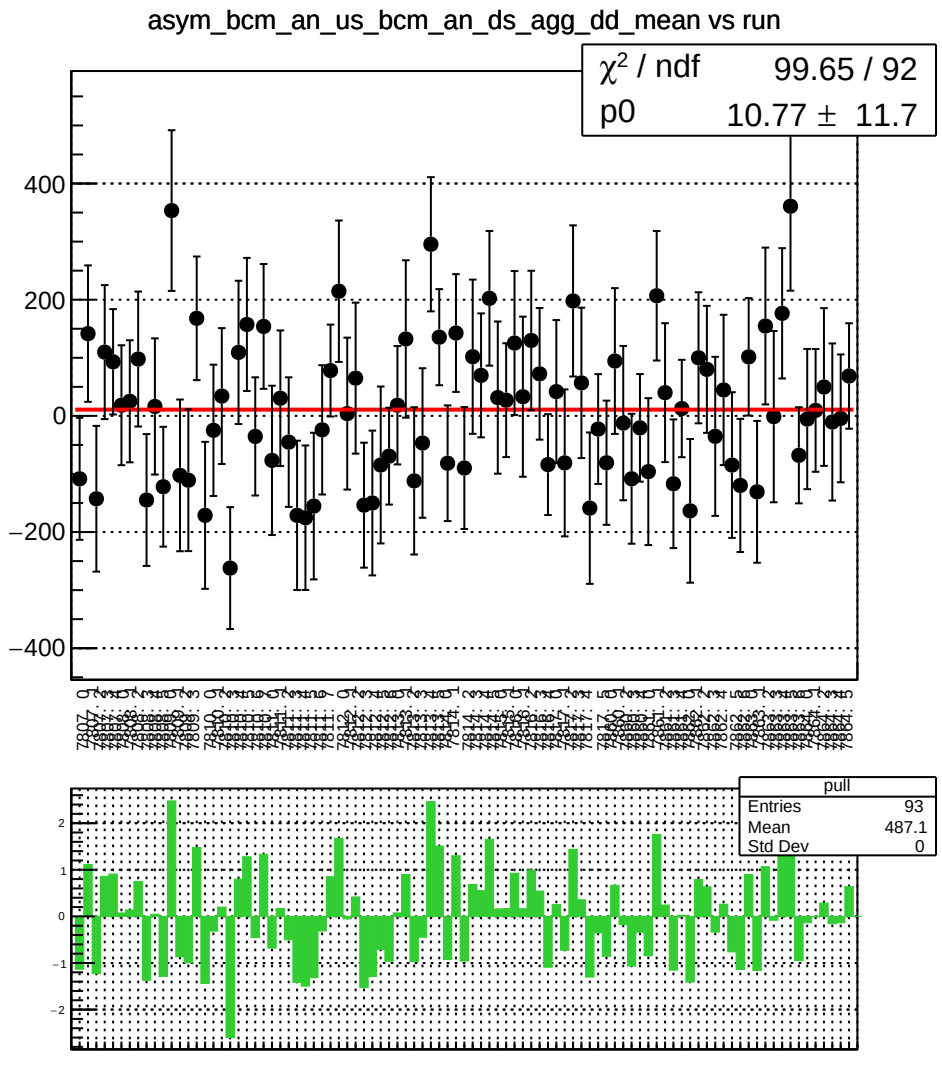

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 94.61 / 92
p0 11.17 ± 15.96
600
400
200
0
−200
−400
−600
pull
Entries 93
Mean −201.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.007616
Std Dev 1.009
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

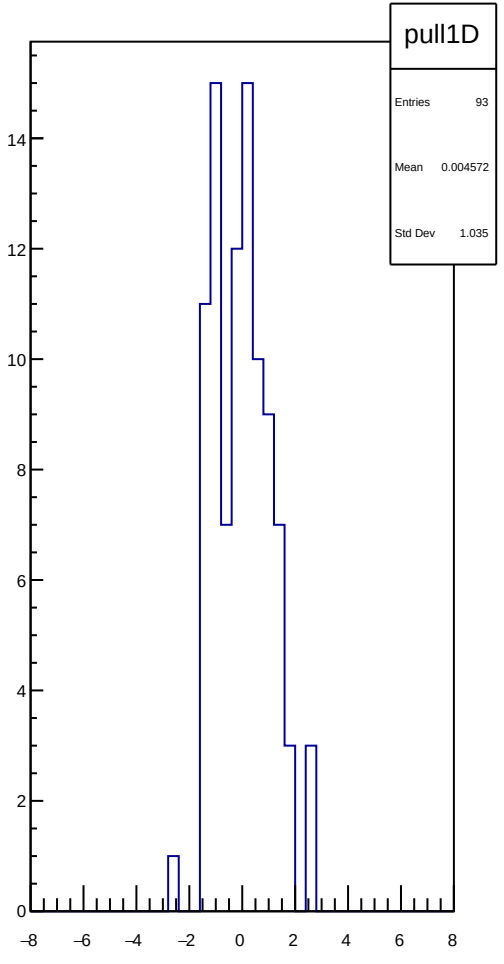

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 3506 / 92
p0 15.34 ± 0.01129
17.5
17
16.5
16
15.5
15
14.5
14

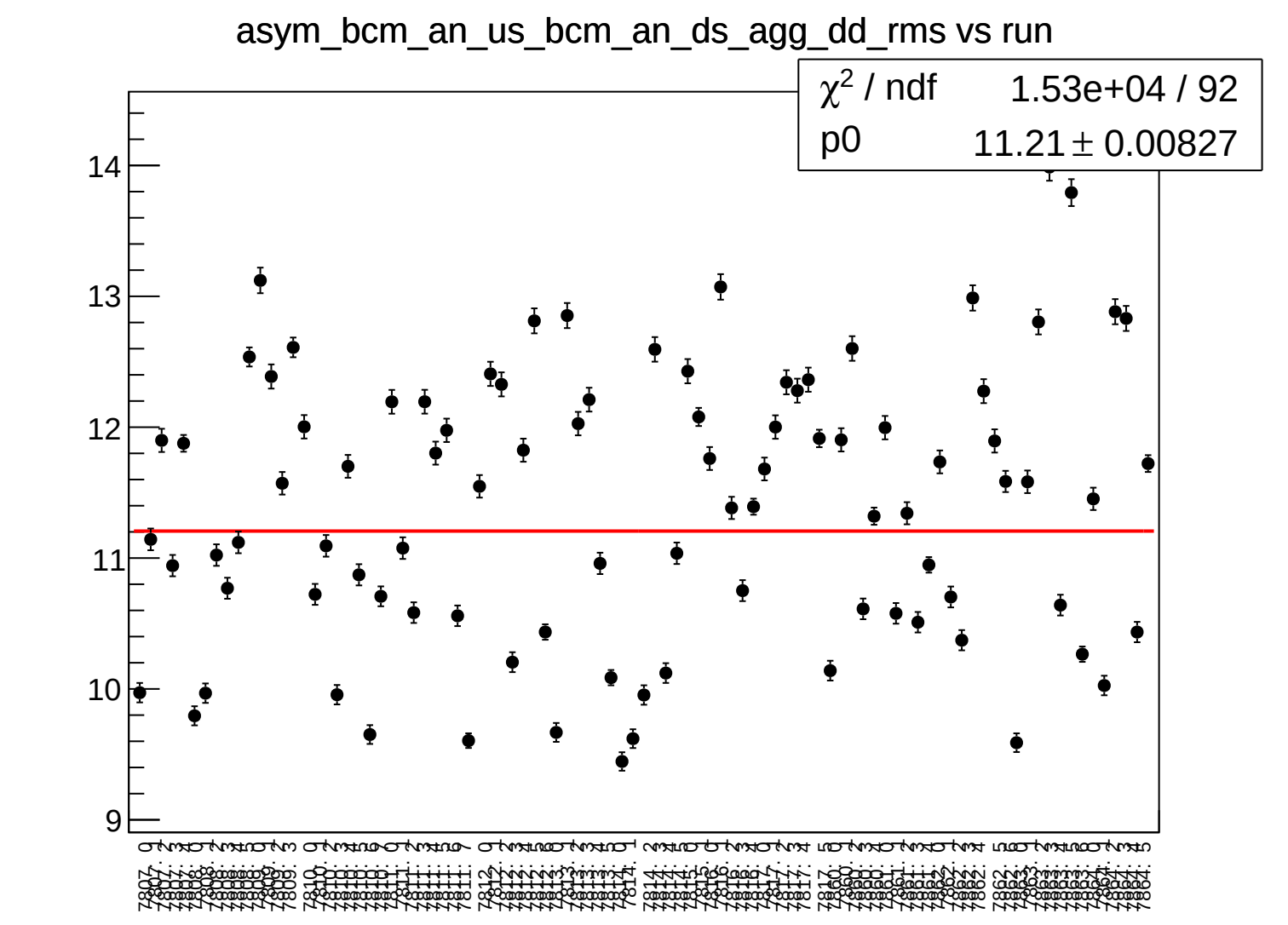

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 62.37 / 92
p0 3.4 ± 21.9
pull
Entries 93
Mean 292.9
Std Dev 0

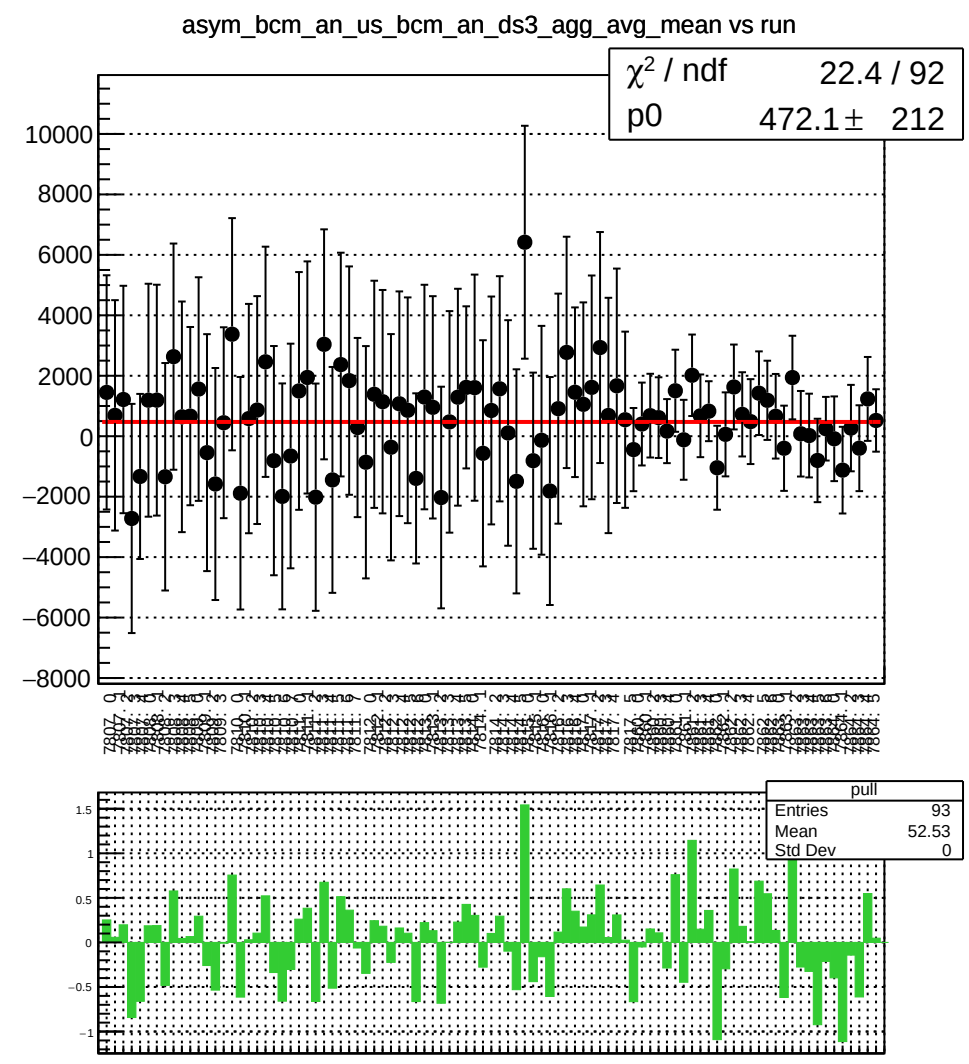

pull1D
Entries 93
Mean 0.01704
Std Dev 0.8188

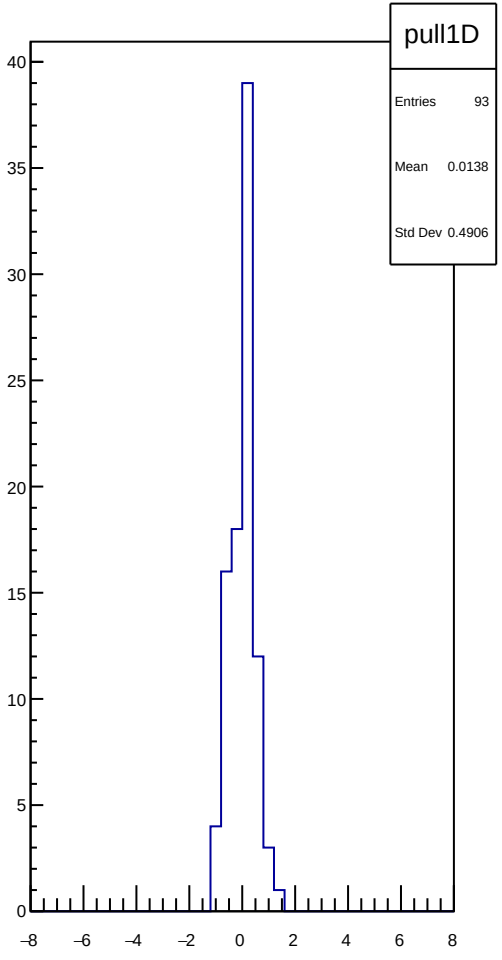

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1209 / 92
p0 21.06 ± 0.01548
22.5
22
21.5
21
20.5
20
19.5

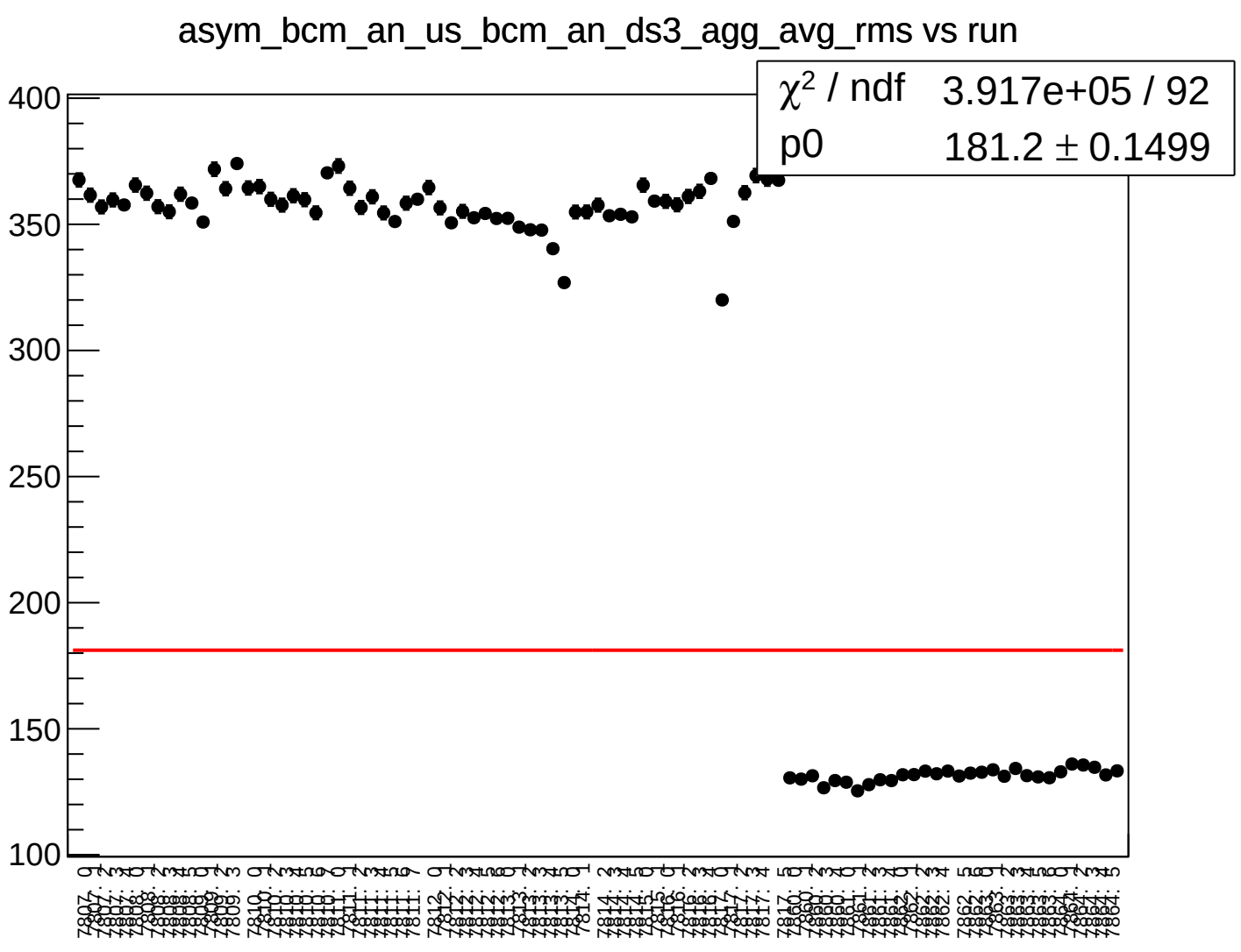

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 99.65 / 92
p0 10.77 ± 11.7
400
200
0
−200
−400
pull
Entries 93
Mean 487.1
Std Dev 0
2
1
0
−1
−2

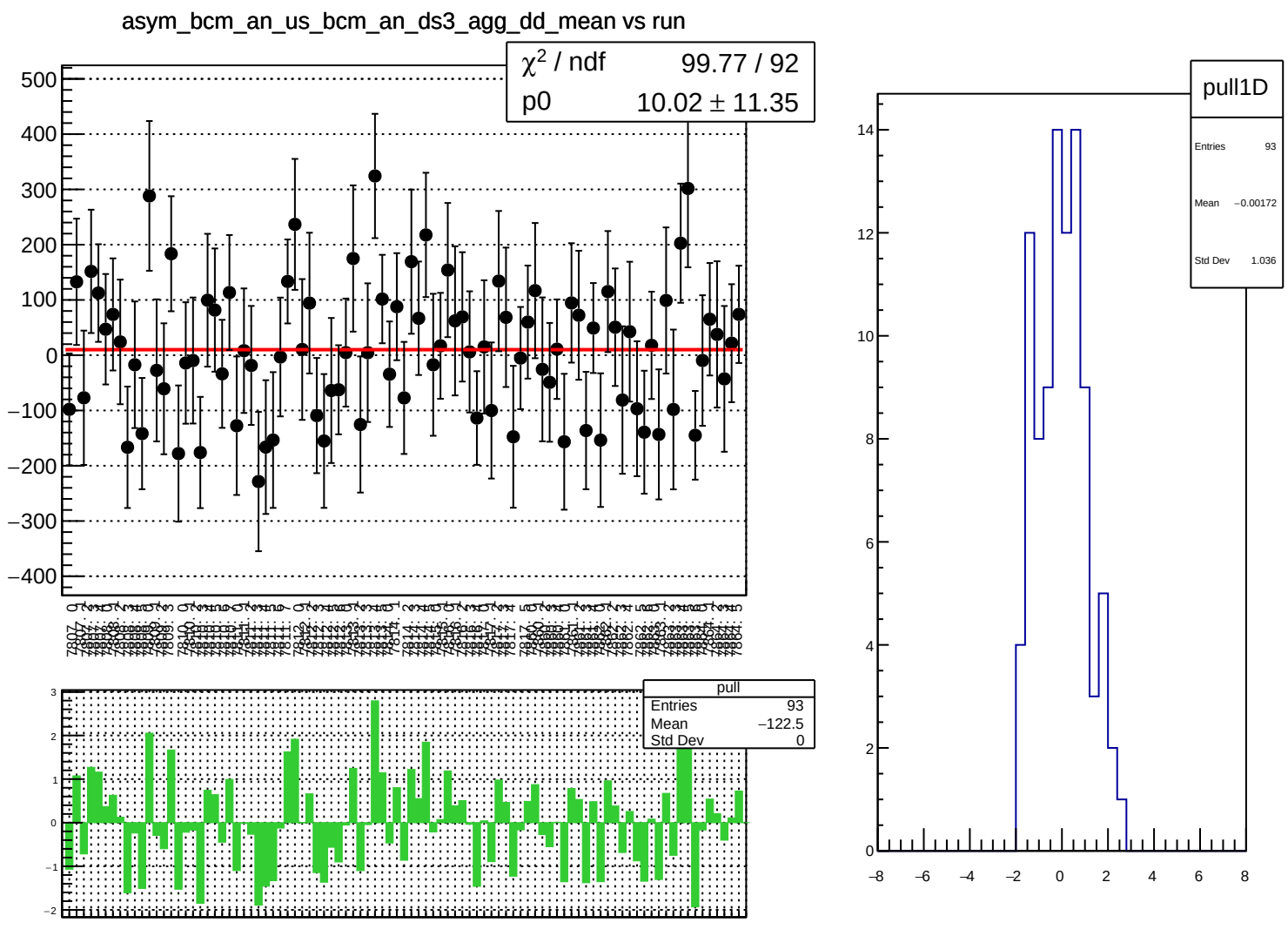

pull1D
Entries 93
Mean 0.004572
Std Dev 1.035
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

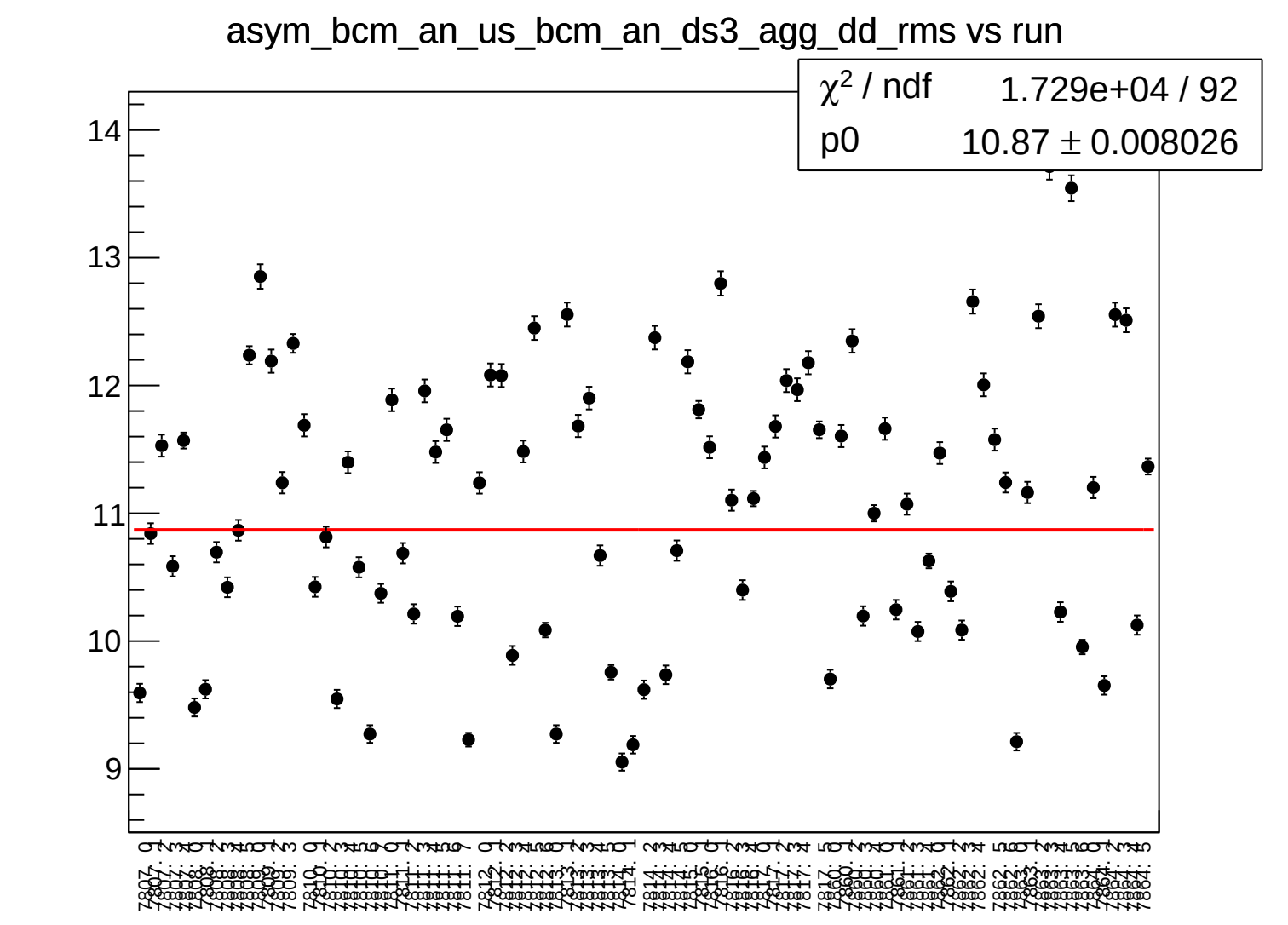

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1.53e+04 / 92
p0 11.21 ± 0.00827
14
13
12
11
10
9

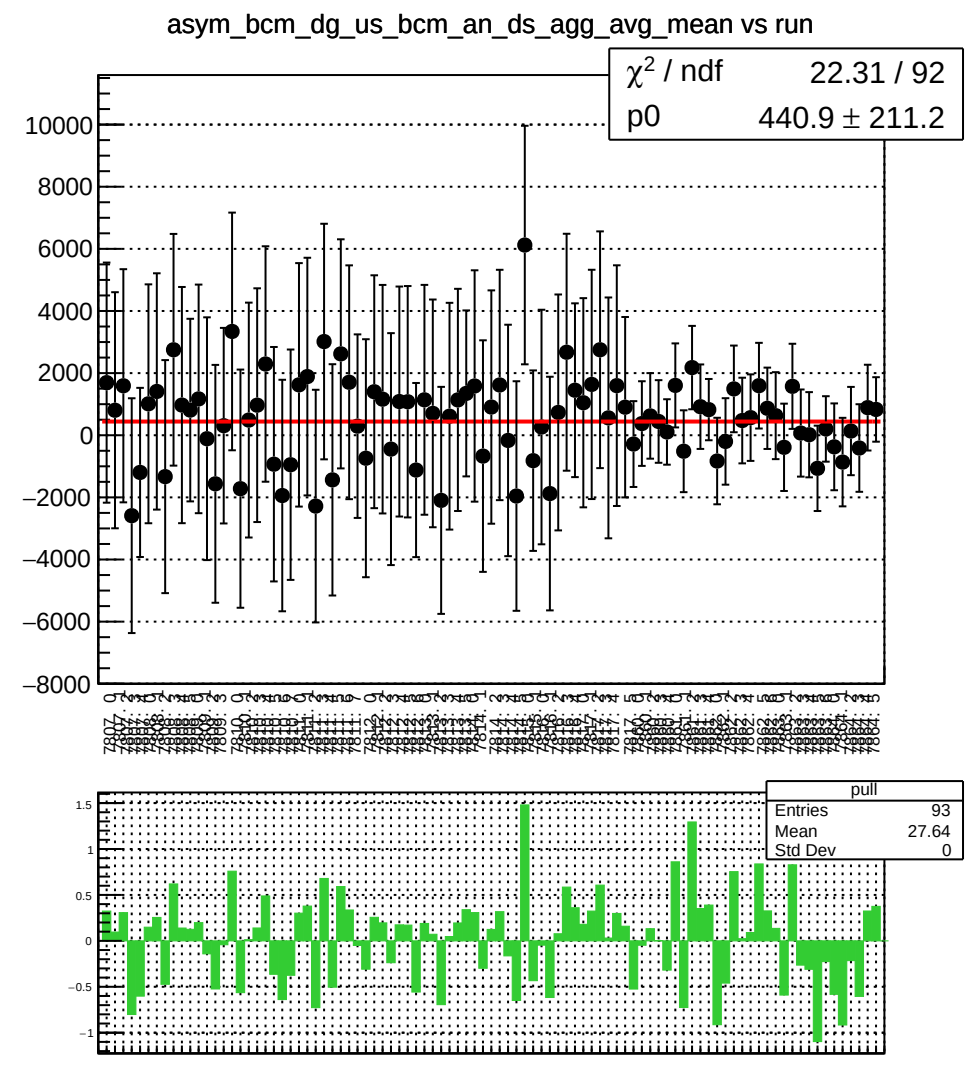

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 22.4 / 92
p0 472.1 ± 212
pull
Entries 93
Mean 52.53
Std Dev 0

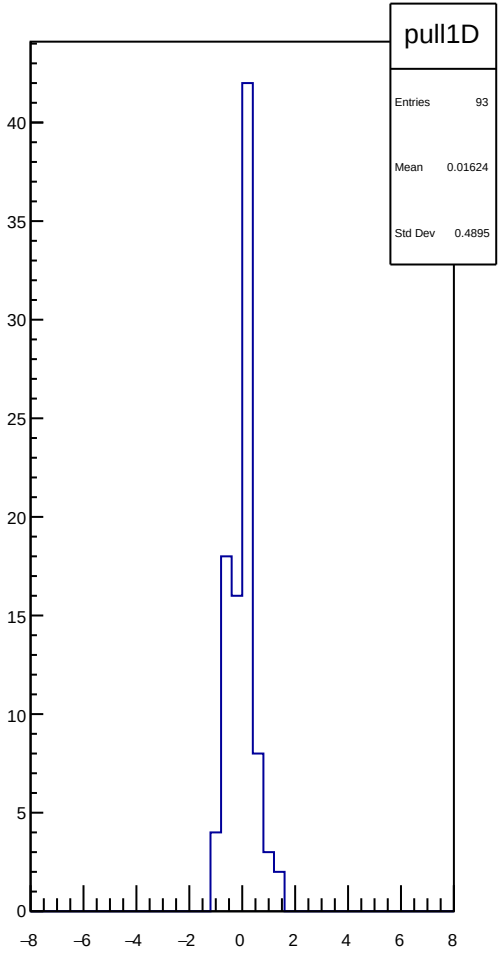

pull1D
Entries 93
Mean 0.0138
Std Dev 0.4906

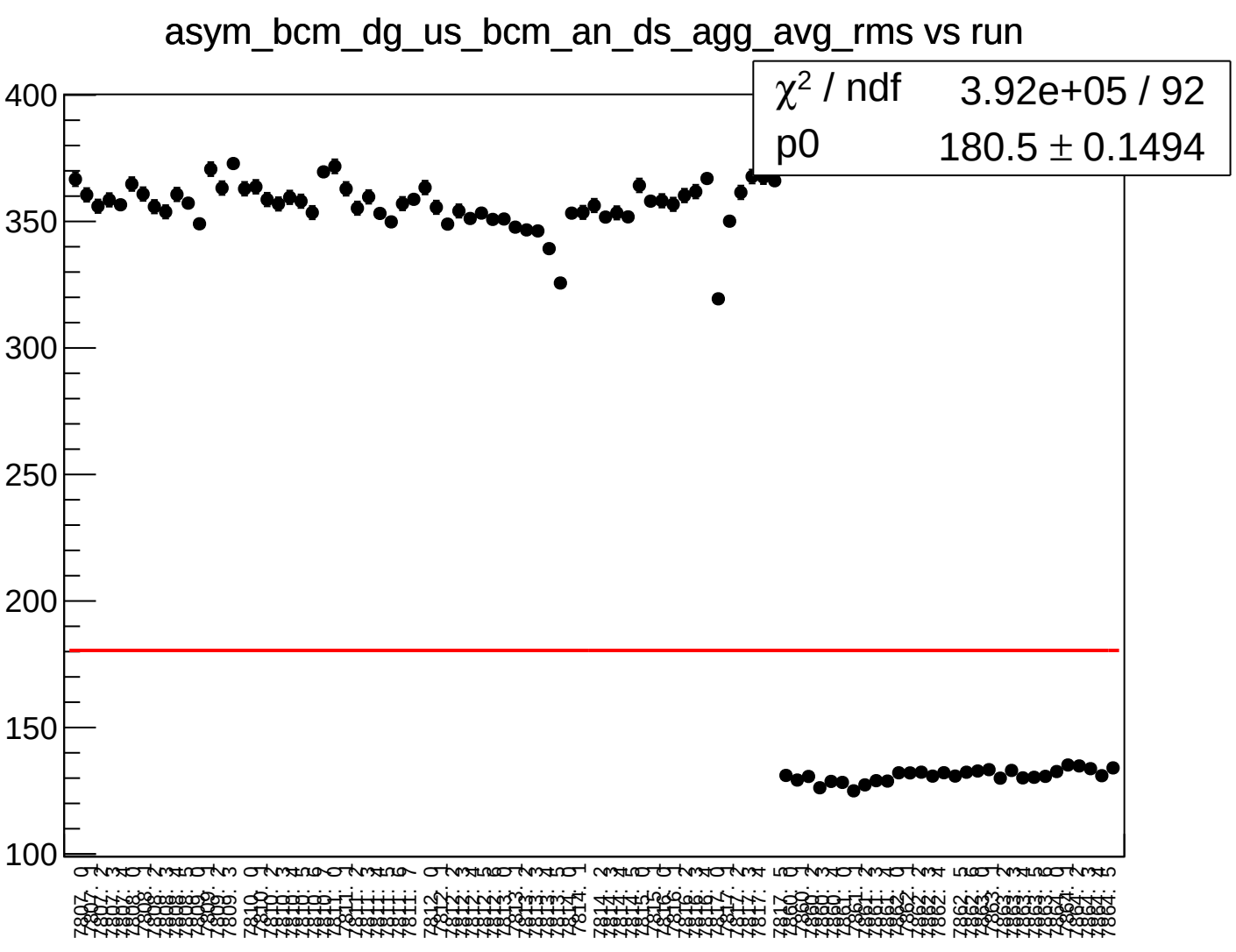

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 3.917e+05 / 92
p0 181.2 ± 0.1499
400
350
300
250
200
150
100

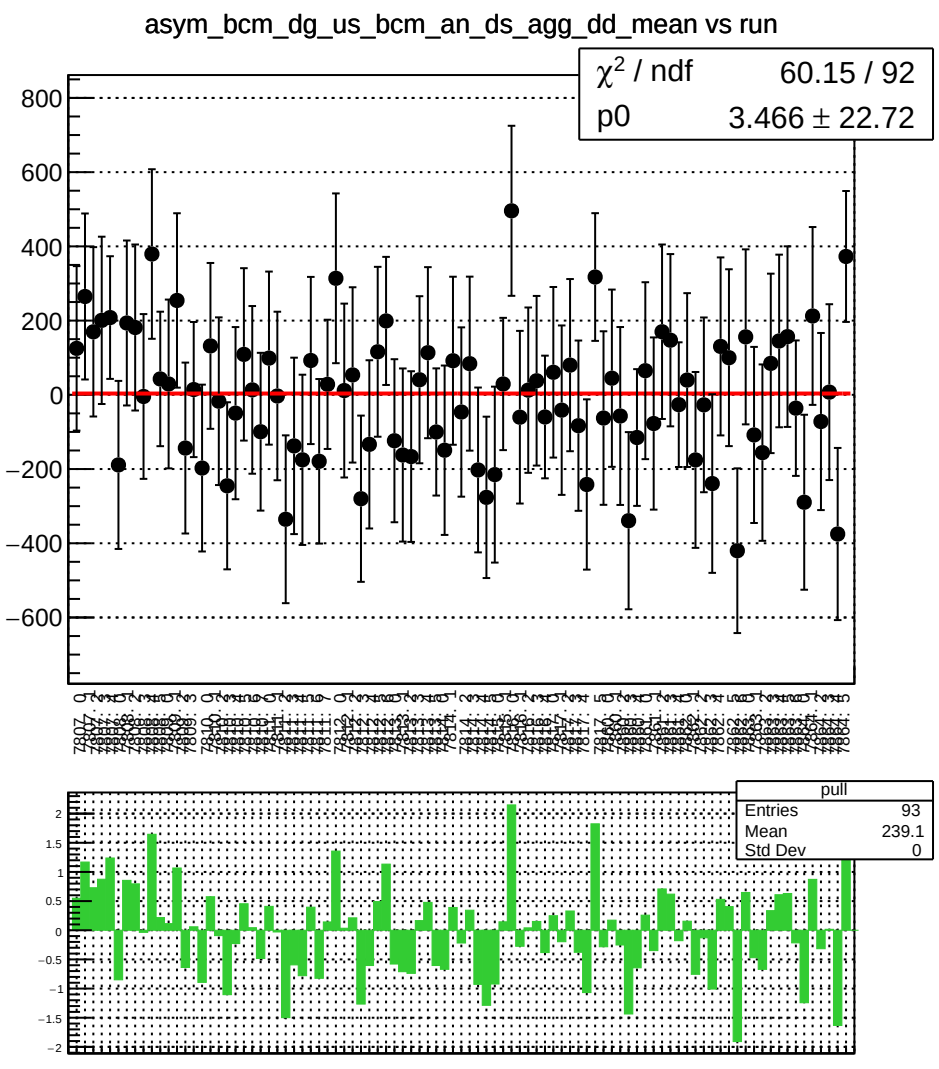

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 99.77 / 92
p0 10.02 ± 11.35
pull
Entries 93
Mean −122.5
Std Dev 0
pull1D
Entries 93
Mean −0.00172
Std Dev 1.036

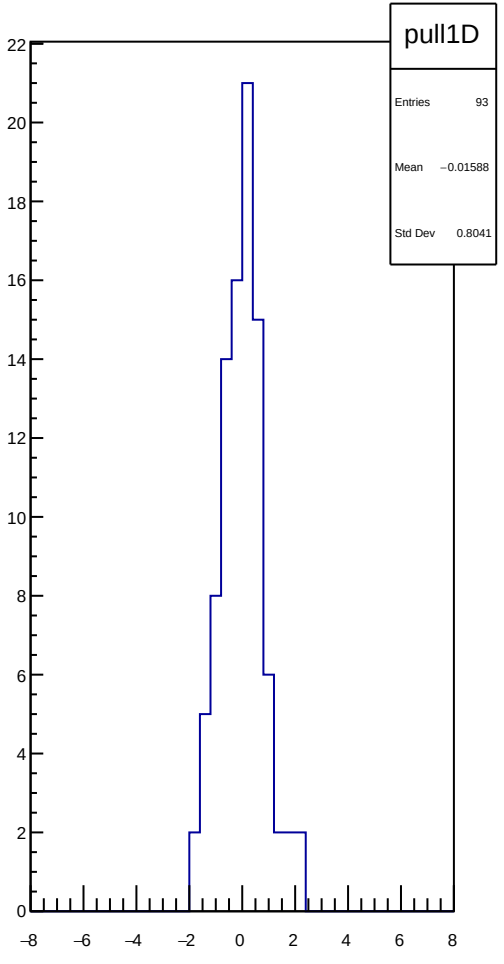

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 1.729e+04 / 92
p0 10.87 ± 0.008026
14
13
12
11
10
9

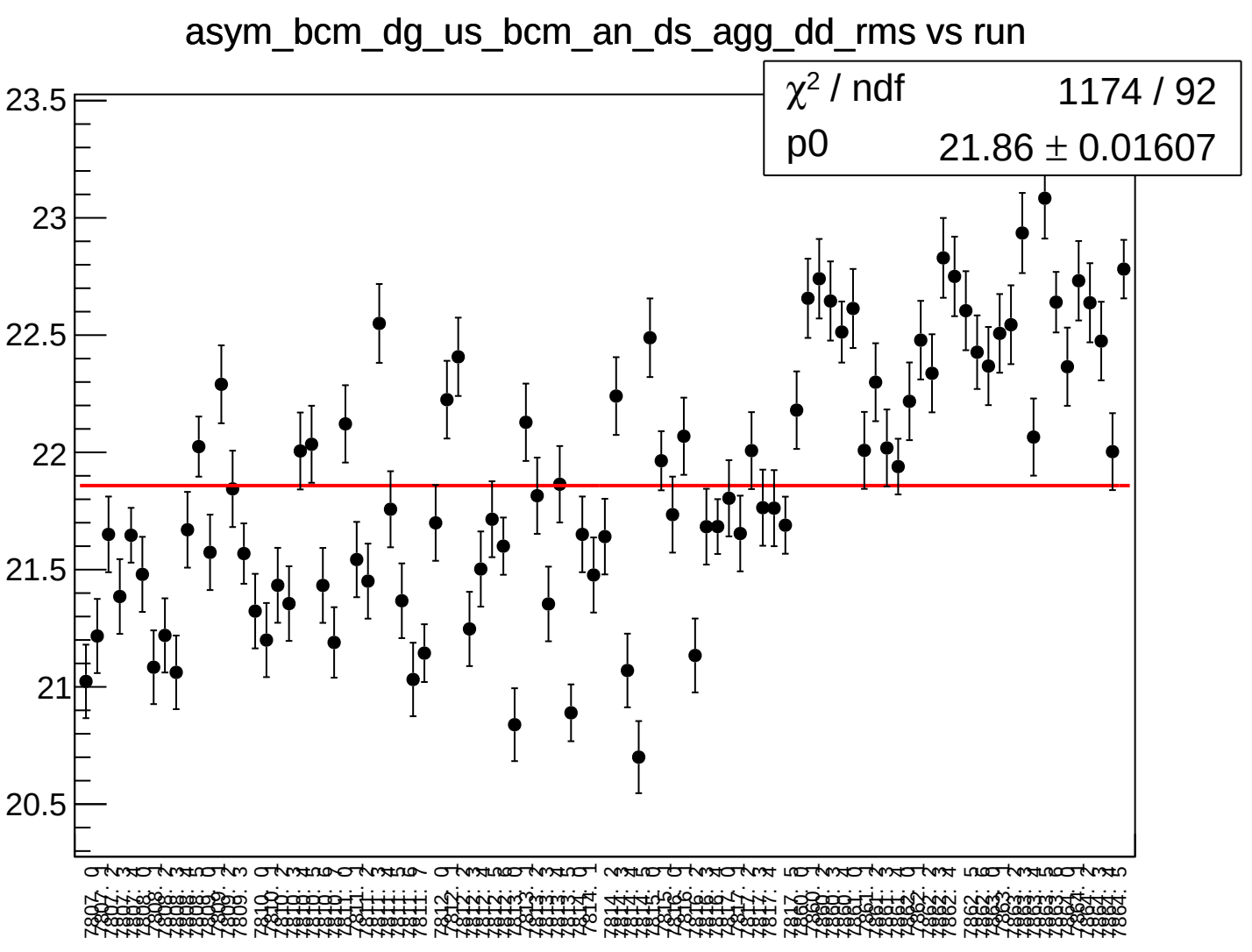

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 22.31 / 92
p0 440.9 ± 211.2
pull
Entries 93
Mean 27.64
Std Dev 0

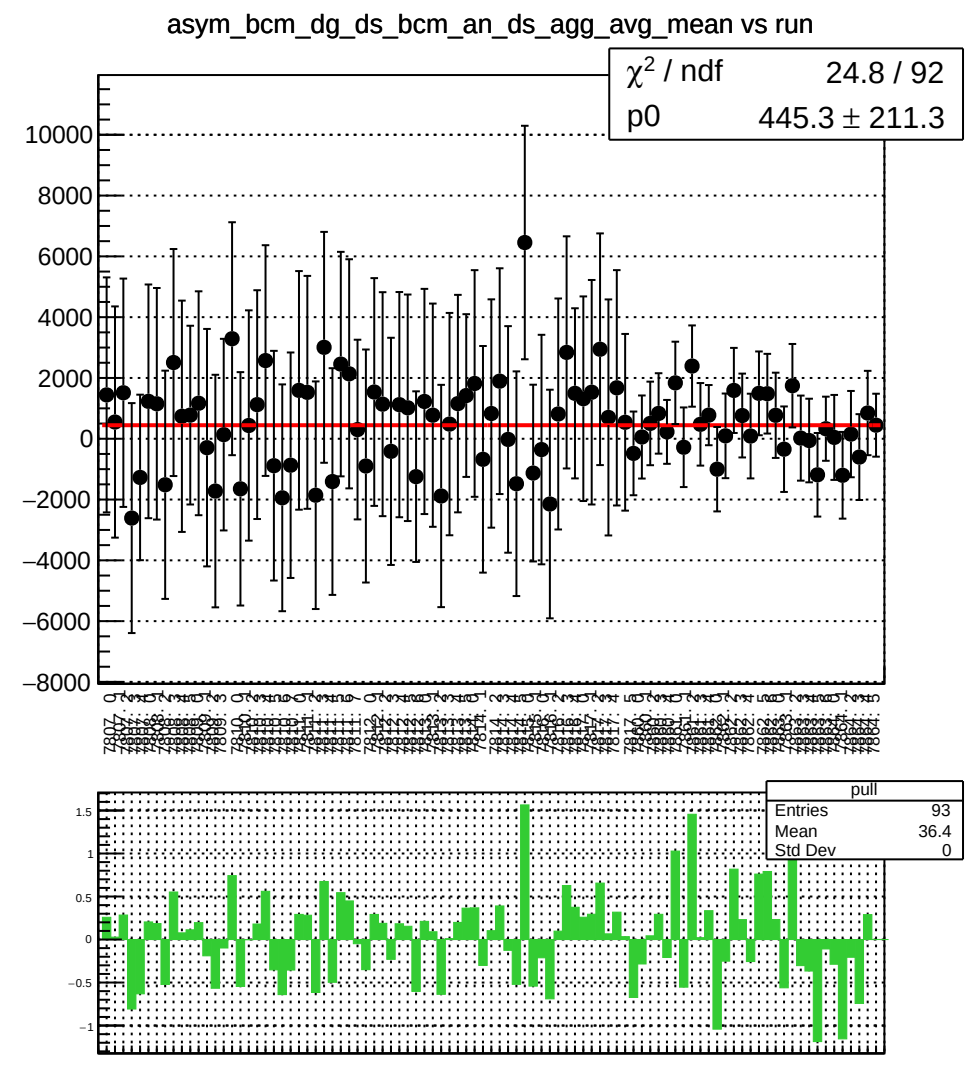

pull1D
Entries 93
Mean 0.01624
Std Dev 0.4895

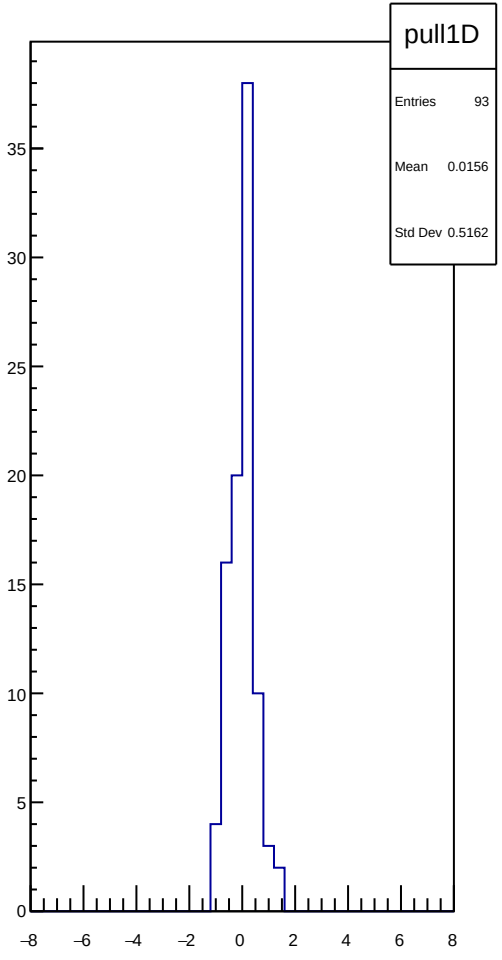

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3.92e+05 / 92
p0 180.5 ± 0.1494
400
350
300
250
200
150
100

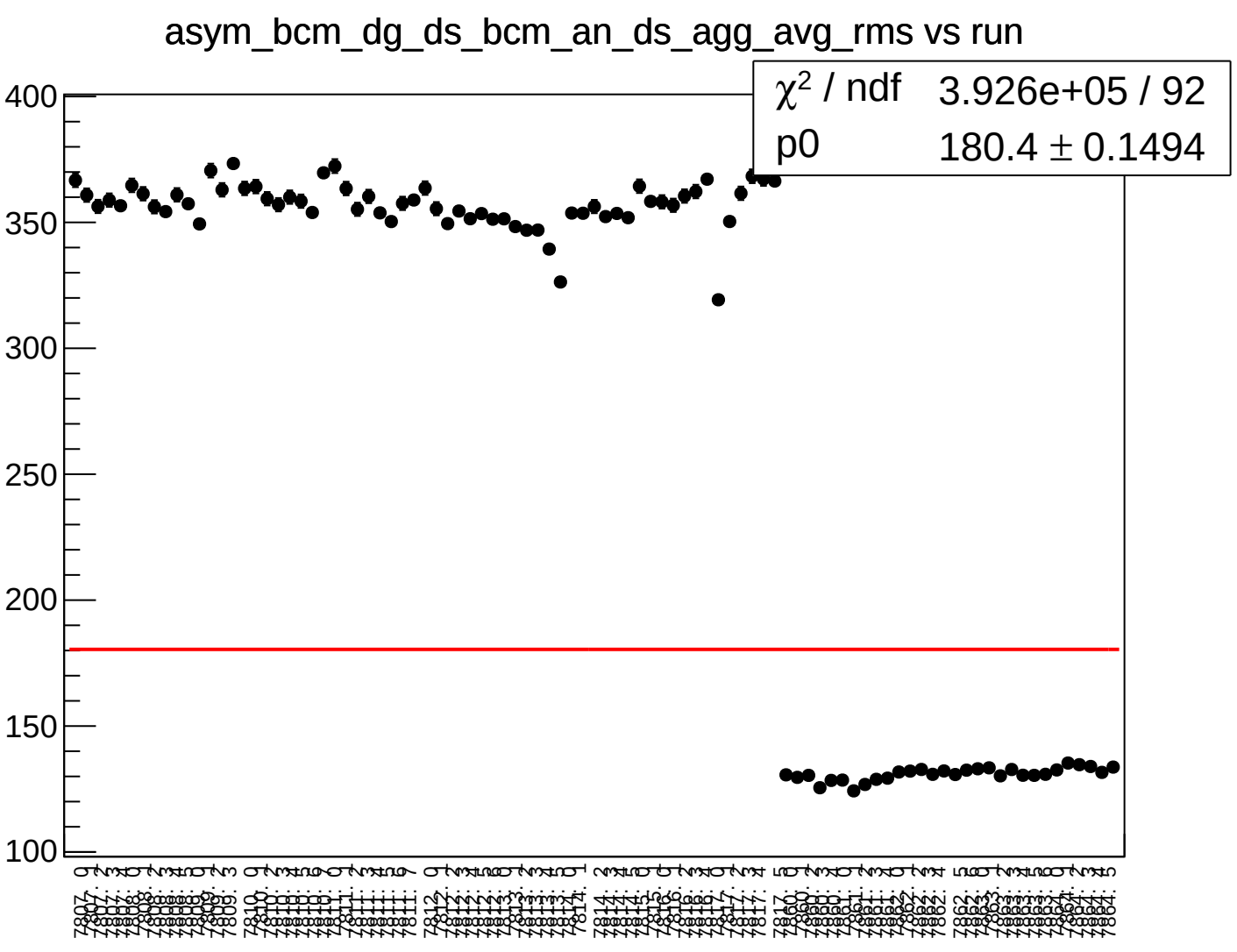

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 60.15 / 92
p0 3.466 ± 22.72
pull
Entries 93
Mean 239.1
Std Dev 0

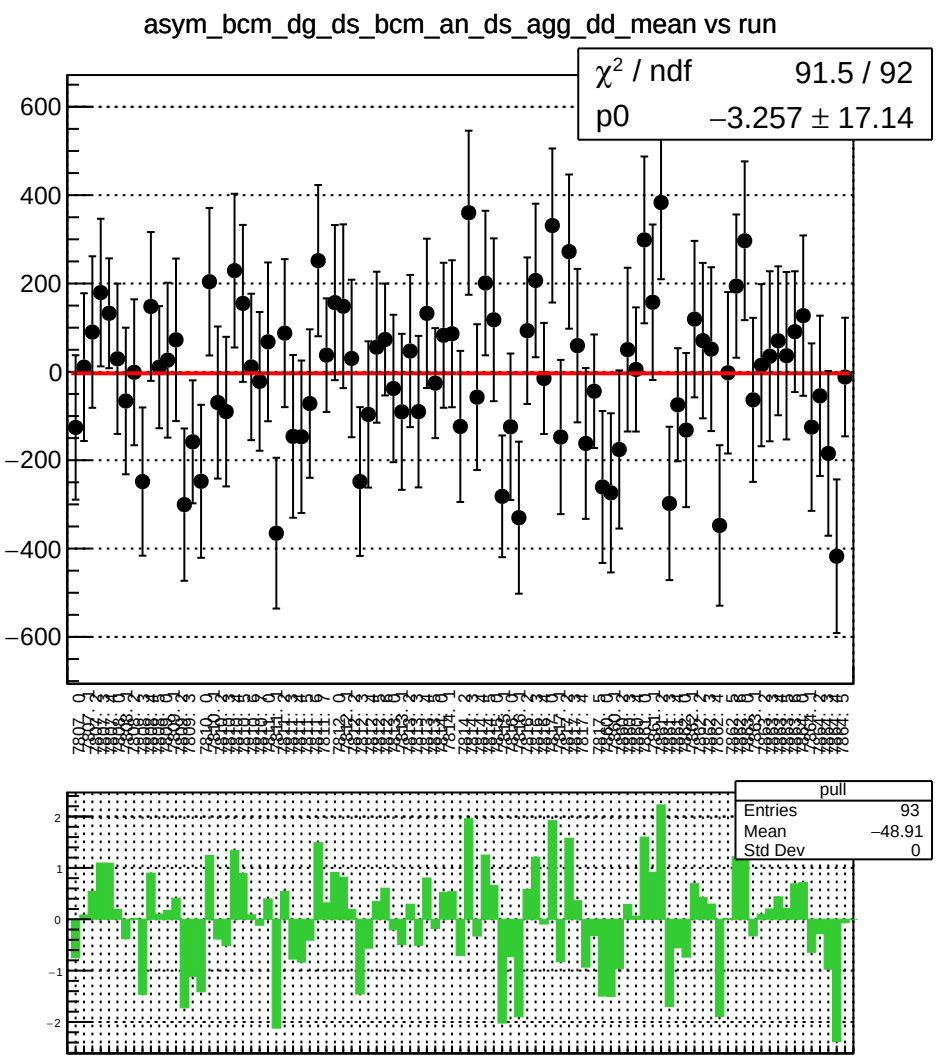

pull1D
Entries 93
Mean −0.01588
Std Dev 0.8041

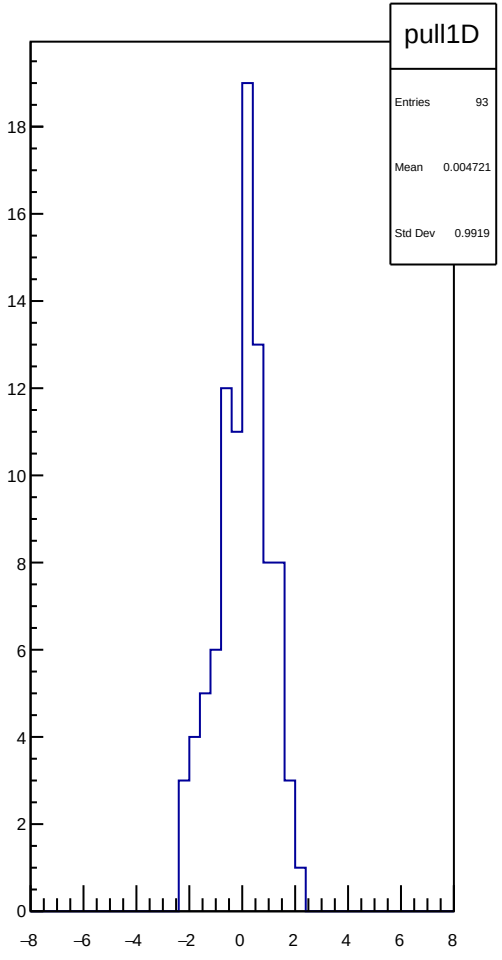

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1174 / 92
p0 21.86 ± 0.01607
23.5
23
22.5
22
21.5
21
20.5

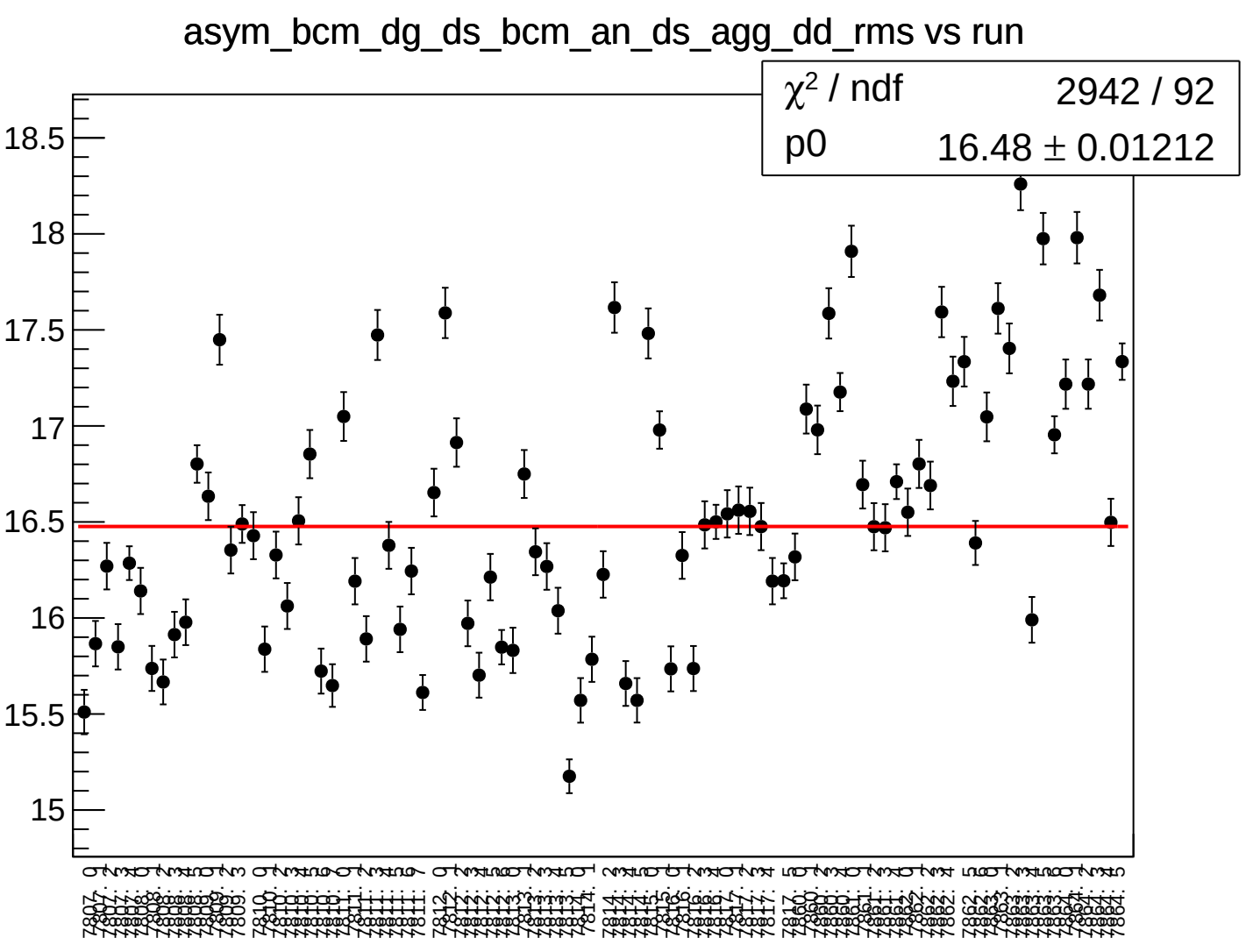

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 24.8 / 92
p0 445.3 ± 211.3
pull
Entries 93
Mean 36.4
Std Dev 0

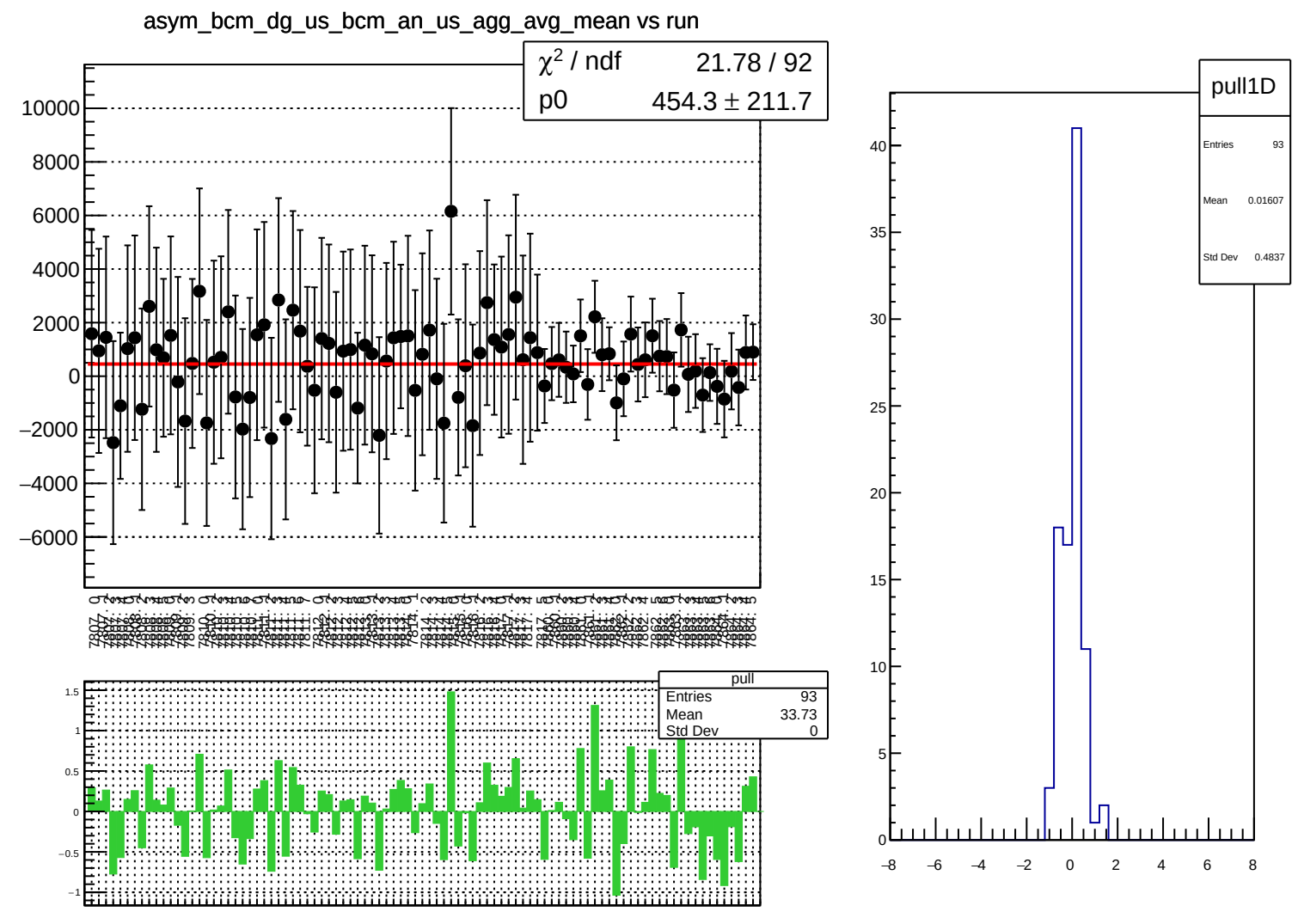

pull1D
Entries 93
Mean 0.0156
Std Dev 0.5162

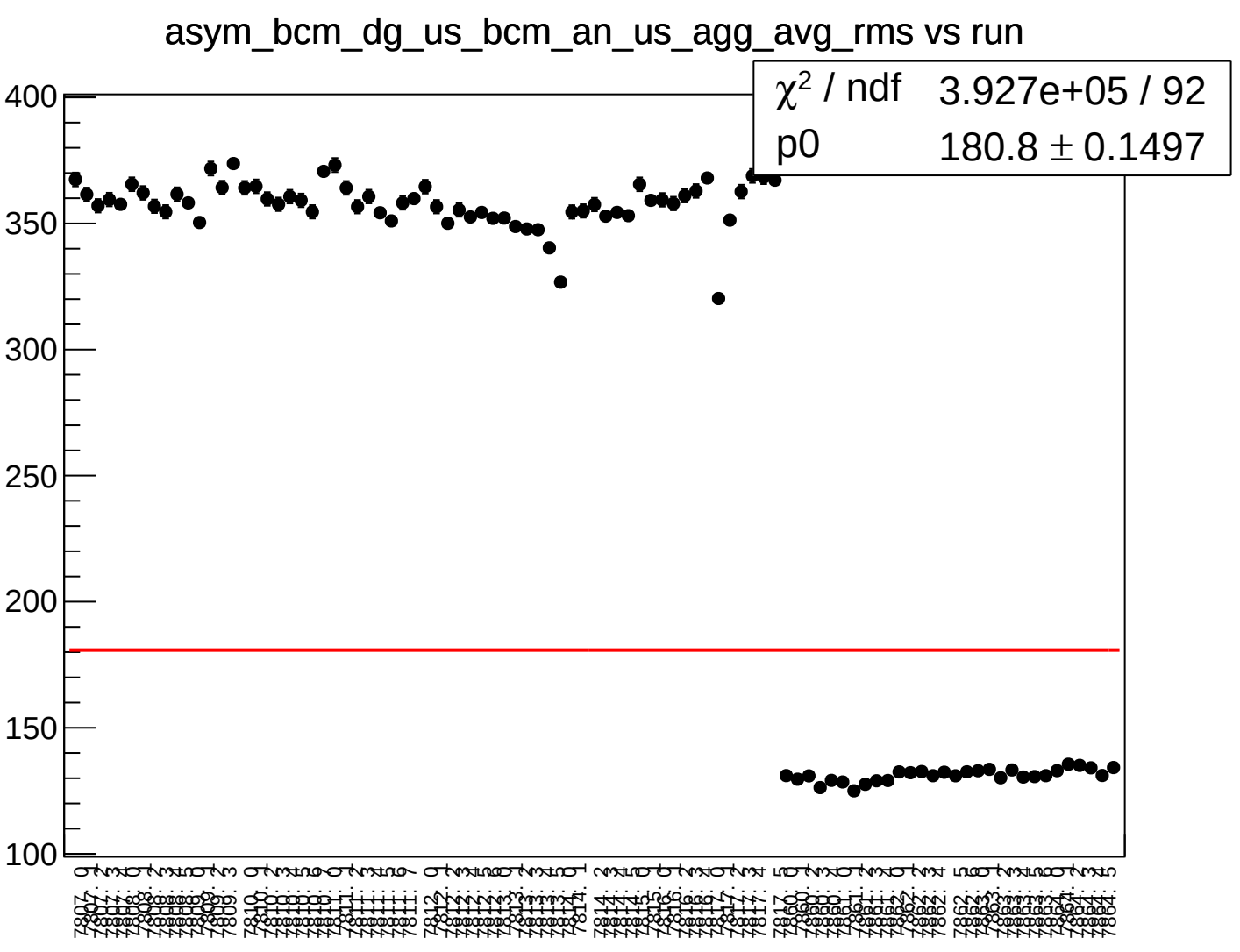

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3.926e+05 / 92
p0 180.4 ± 0.1494
400
350
300
250
200
150
100

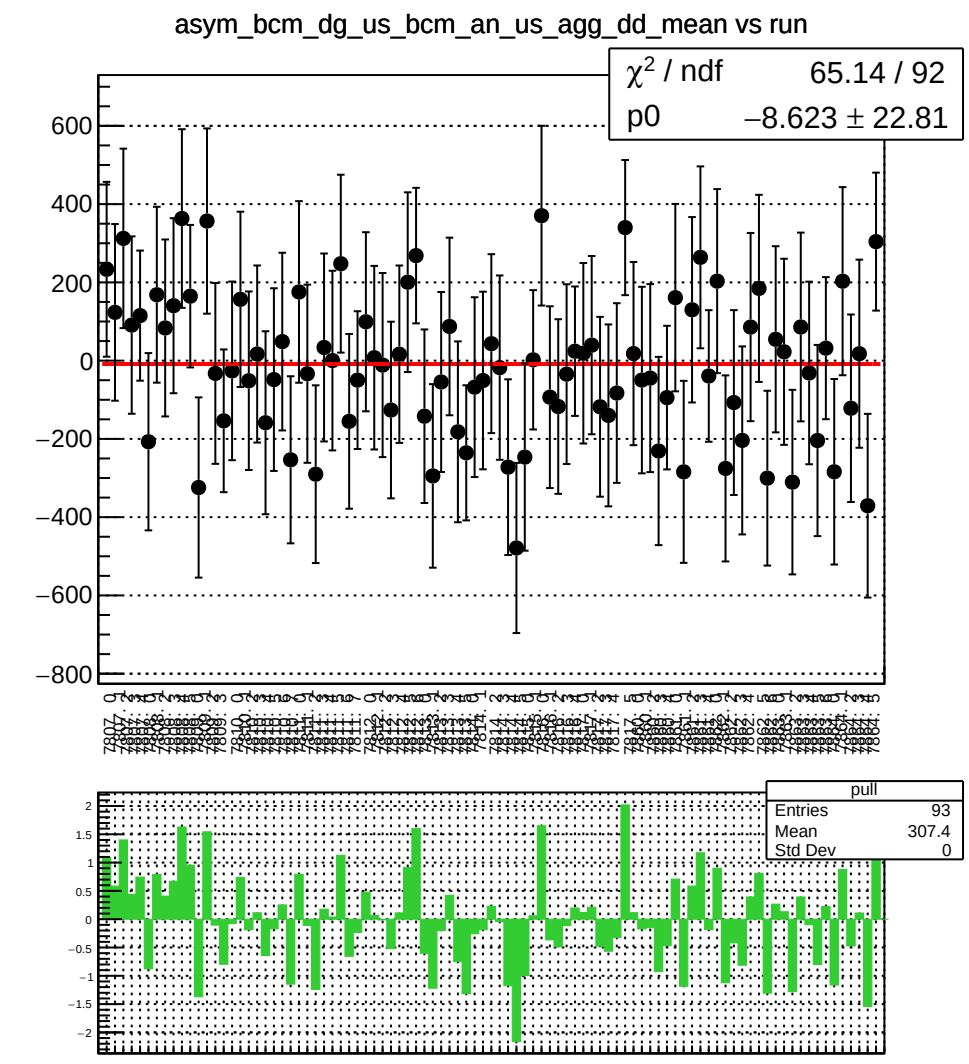

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 91.5 / 92
p0 −3.257 ± 17.14
600
400
200
0
−200
−400
−600
pull
Entries 93
Mean −48.91
Std Dev 0
2
1
0
−1
−2

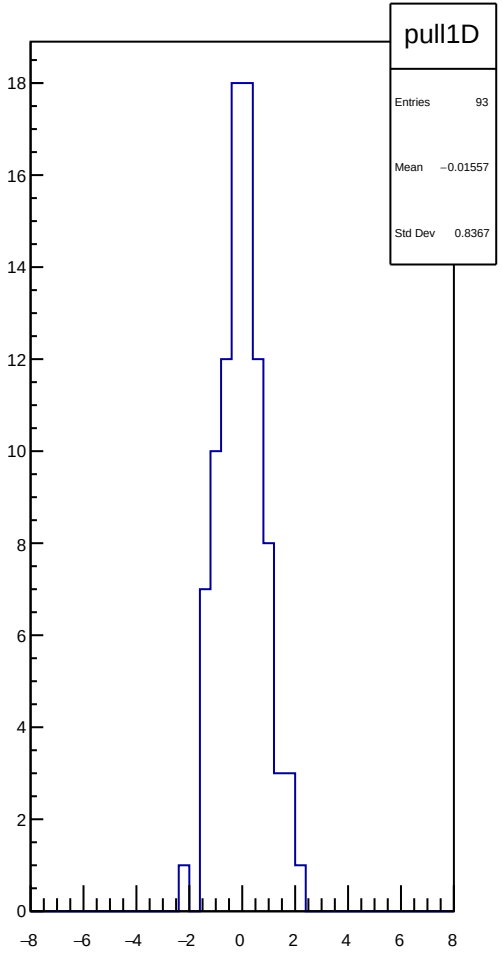

pull1D
Entries 93
Mean 0.004721
Std Dev 0.9919
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

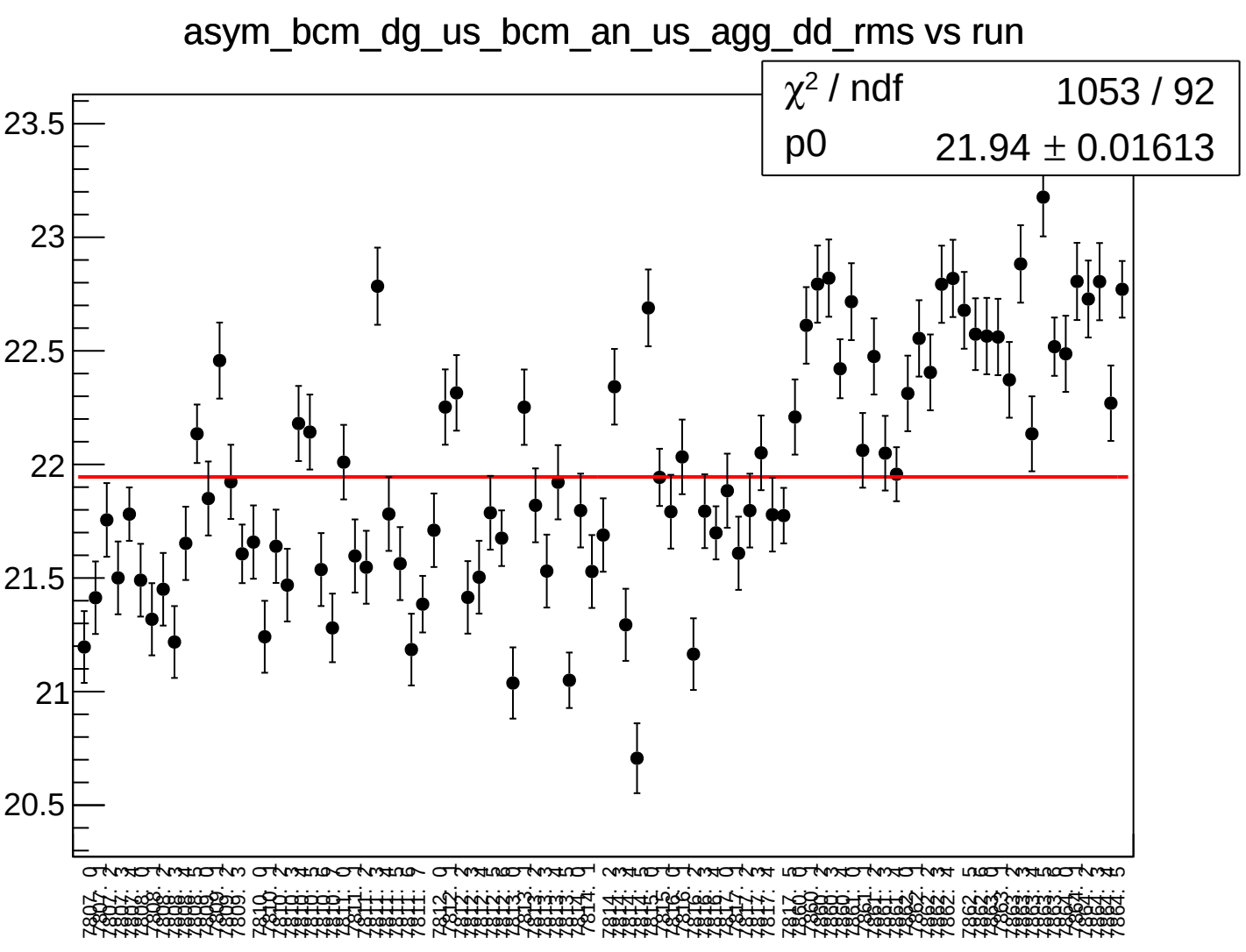

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2942 / 92
p0 16.48 ± 0.01212
18.5
18
17.5
17
16.5
16
15.5
15

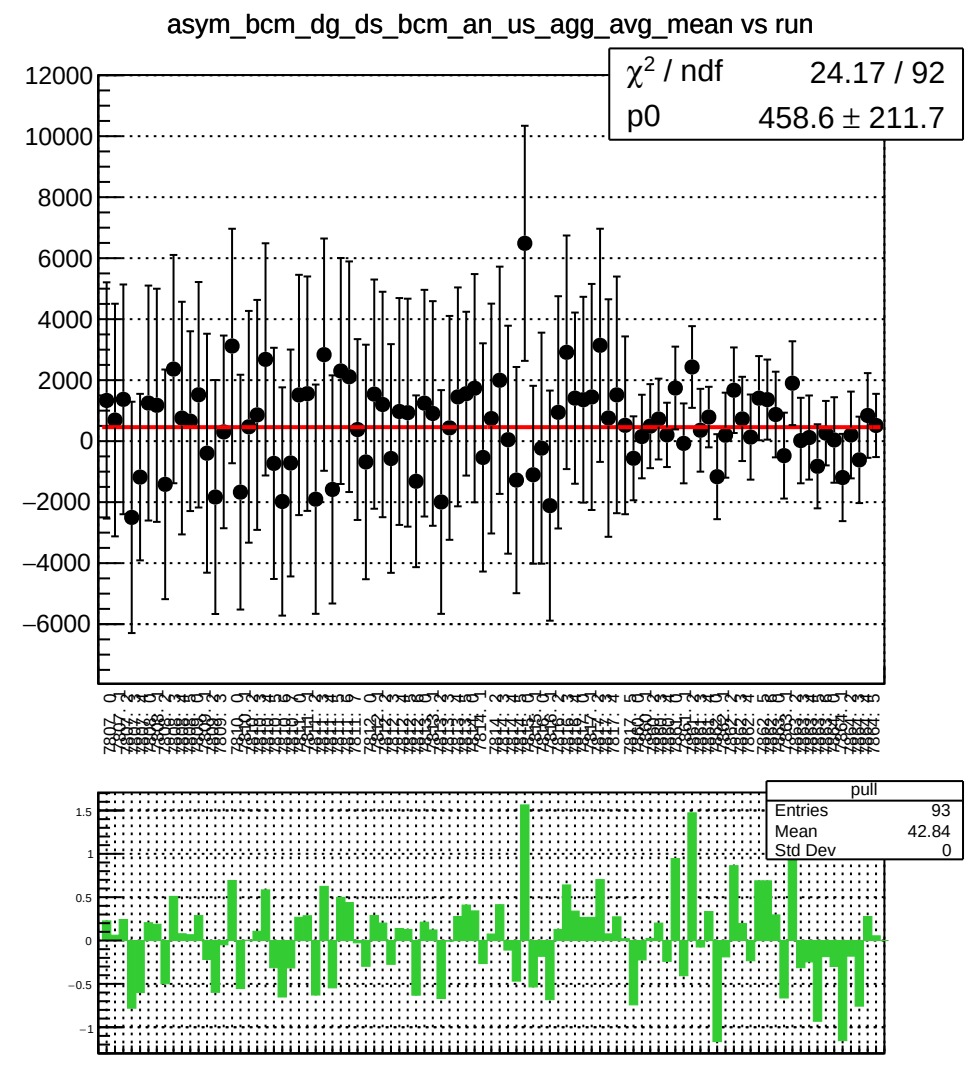

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 21.78 / 92
p0 454.3 ± 211.7
pull
Entries 93
Mean 33.73
Std Dev 0
pull1D
Entries 93
Mean 0.01607
Std Dev 0.4837

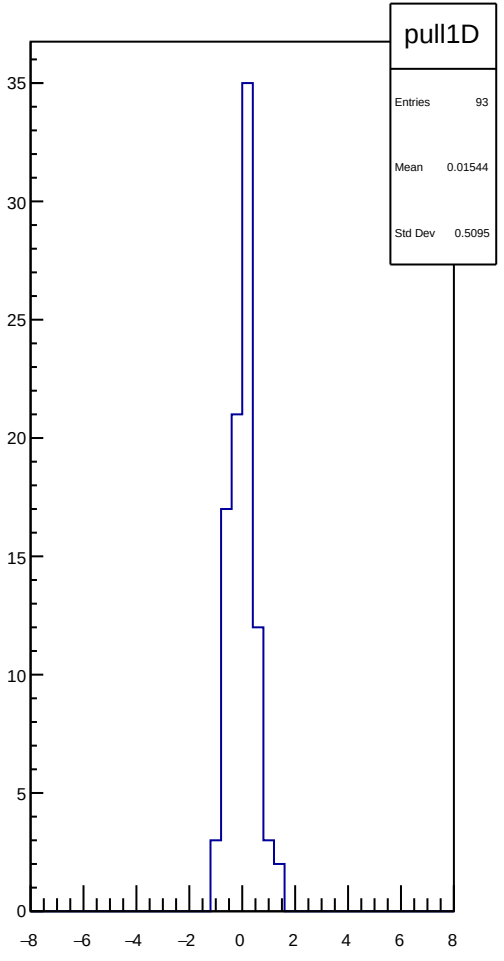

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 3.927e+05 / 92
p0 180.8 ± 0.1497
400
350
300
250
200
150
100

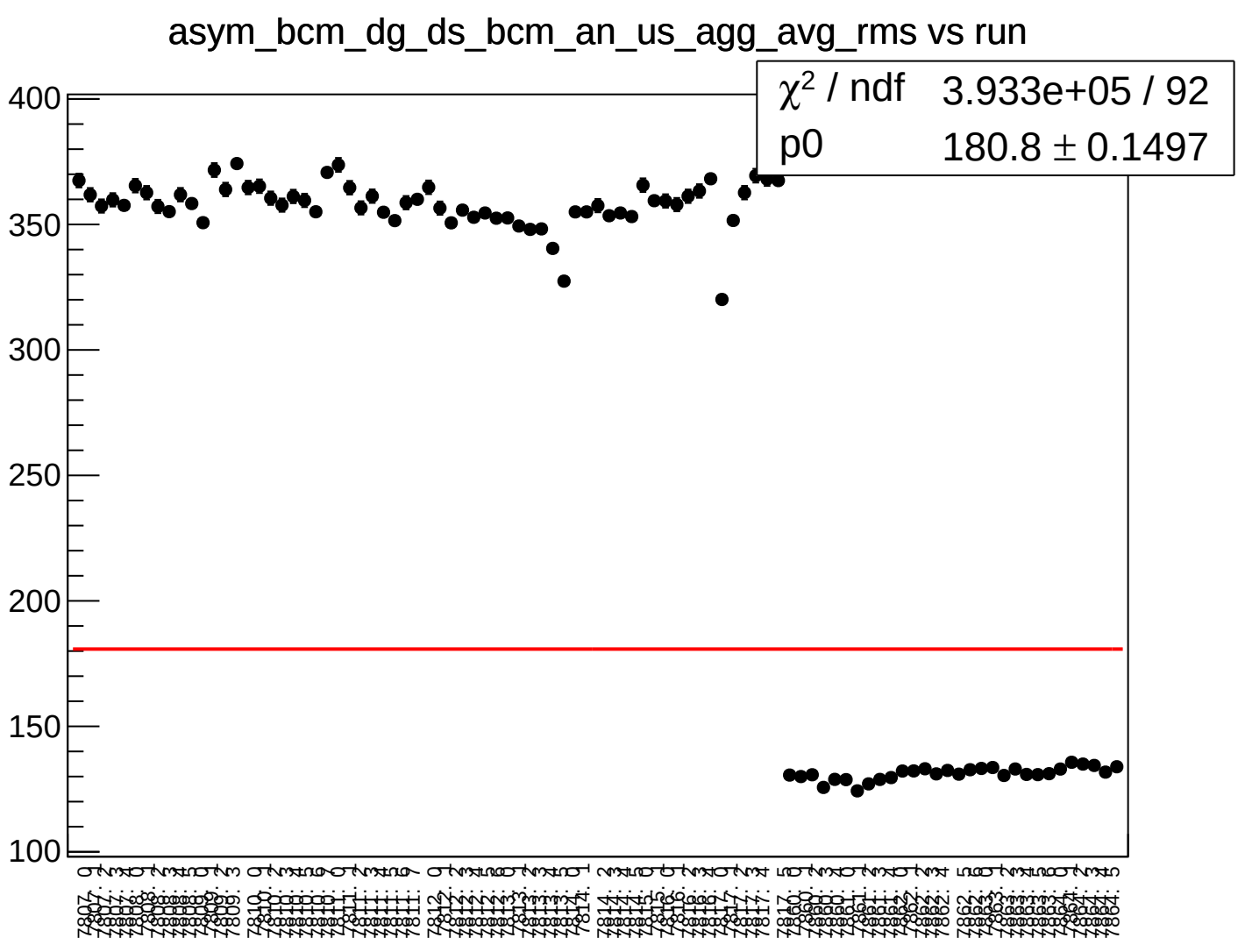

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 65.14 / 92
p0 −8.623 ± 22.81
pull
Entries 93
Mean 307.4
Std Dev 0

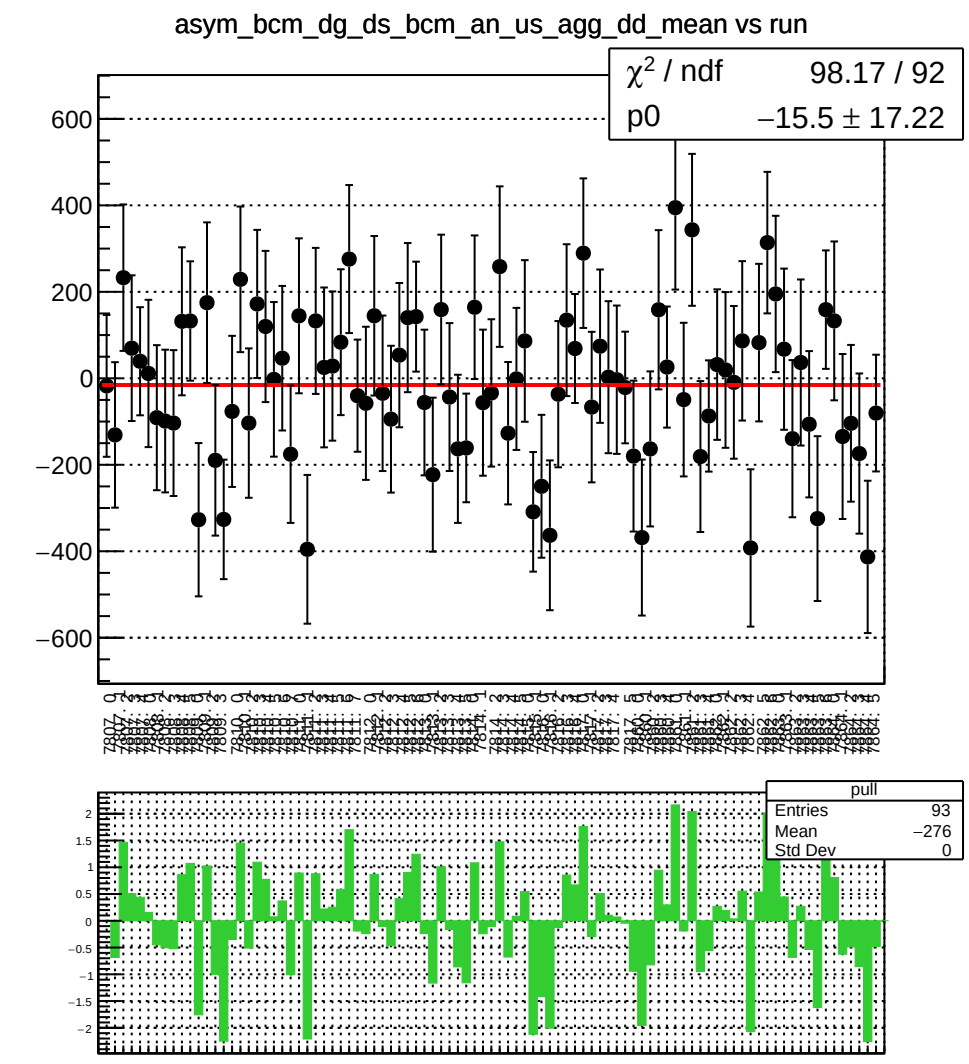

pull1D
Entries 93
Mean −0.01557
Std Dev 0.8367

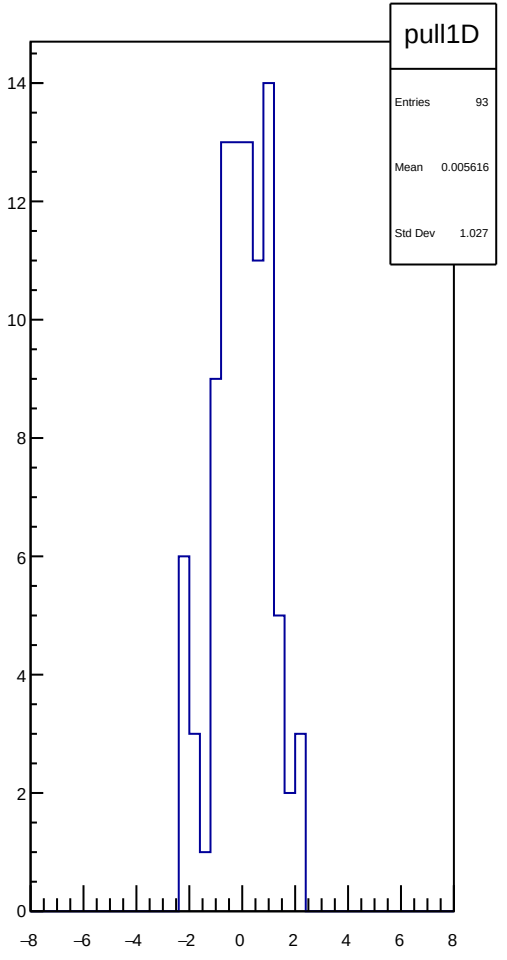

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1053 / 92
p0 21.94 ± 0.01613
23.5
23
22.5
22
21.5
21
20.5

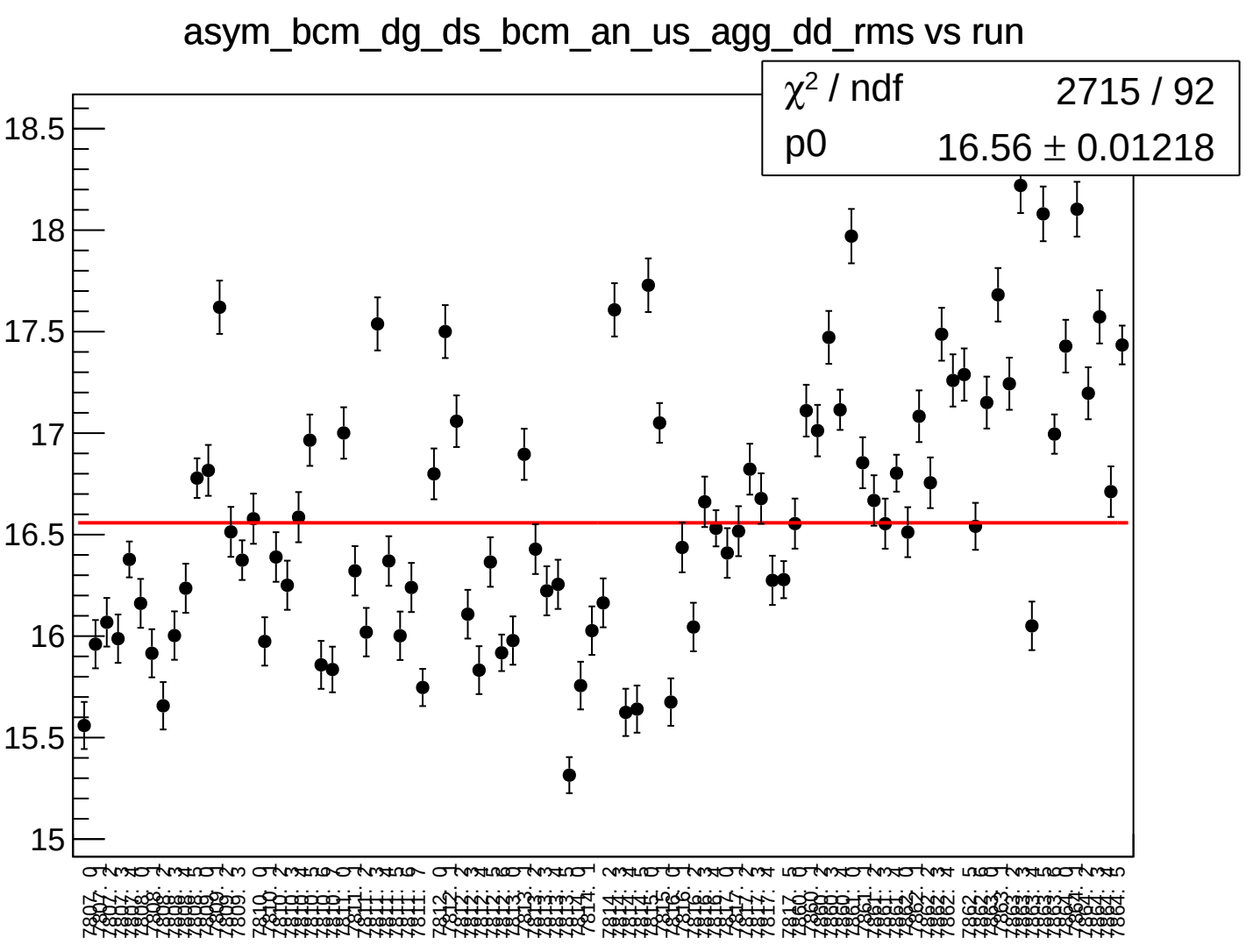

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 24.17 / 92
p0 458.6 ± 211.7
pull
Entries 93
Mean 42.84
Std Dev 0

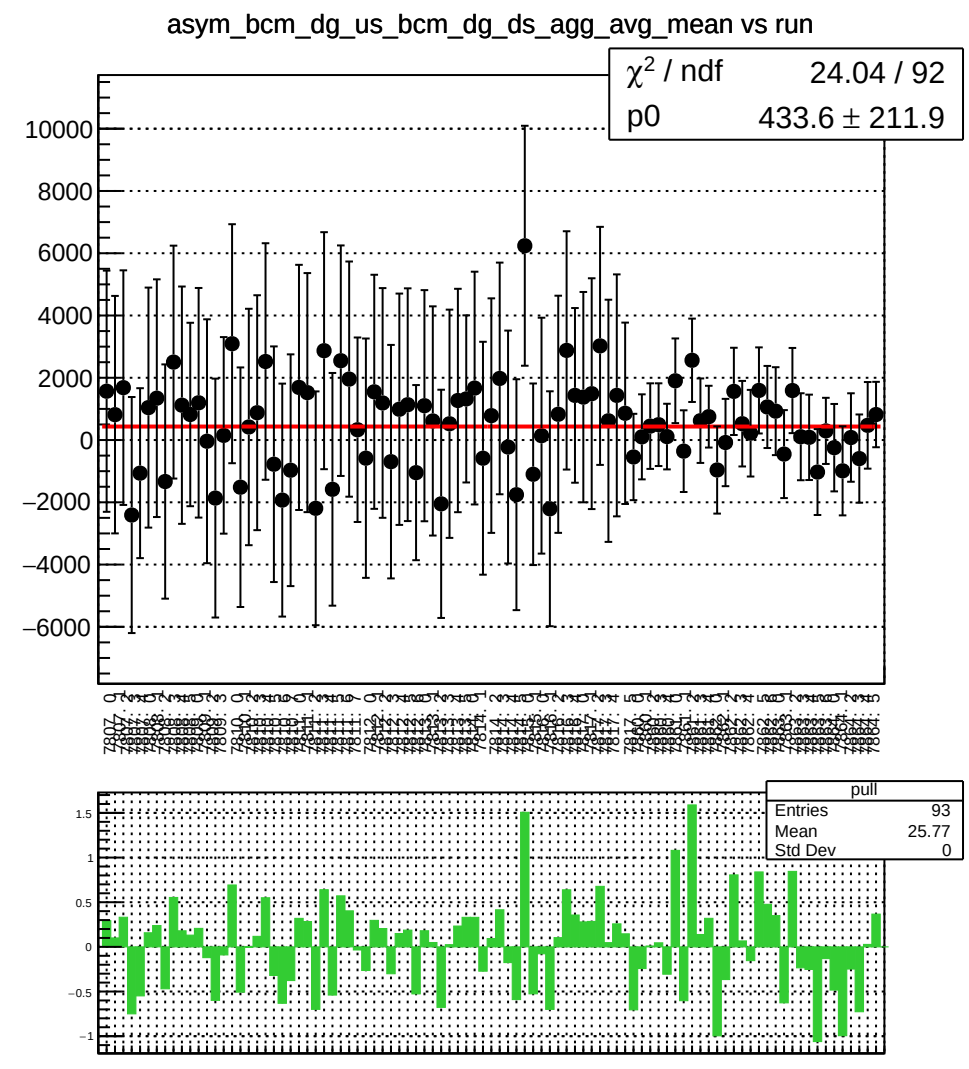

pull1D
Entries 93
Mean 0.01544
Std Dev 0.5095

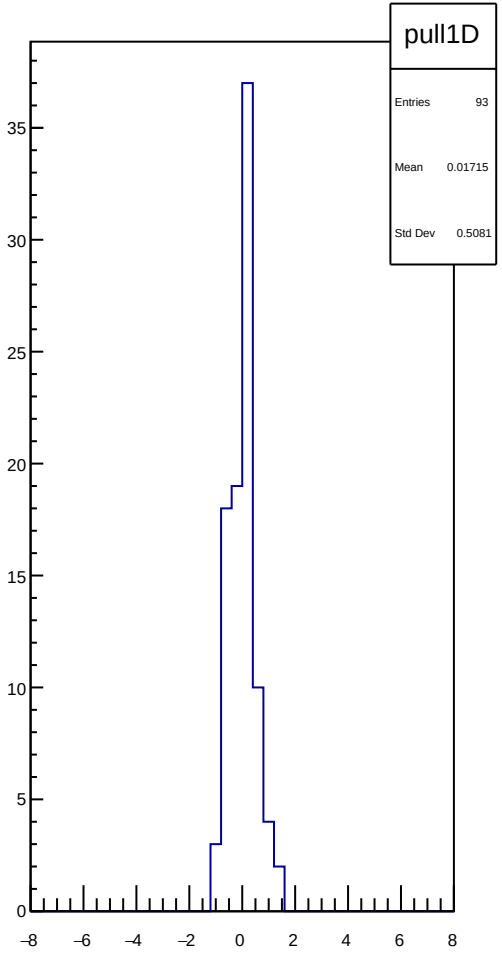

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 3.933e+05 / 92
p0 180.8 ± 0.1497
400
350
300
250
200
150
100

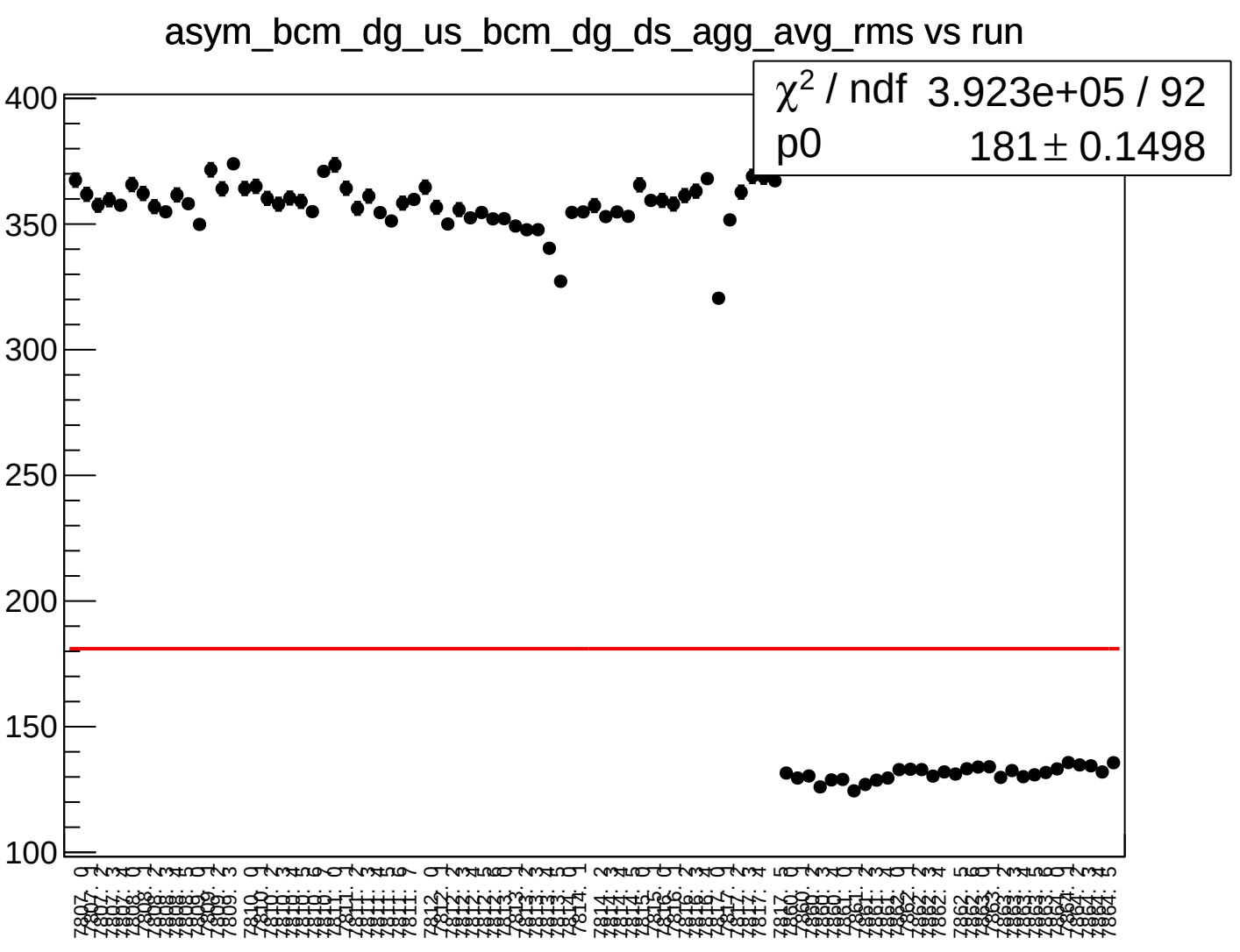

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 98.17 / 92
p0 −15.5 ± 17.22
600
400
200
0
−200
−400
−600
pull
Entries 93
Mean −276
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

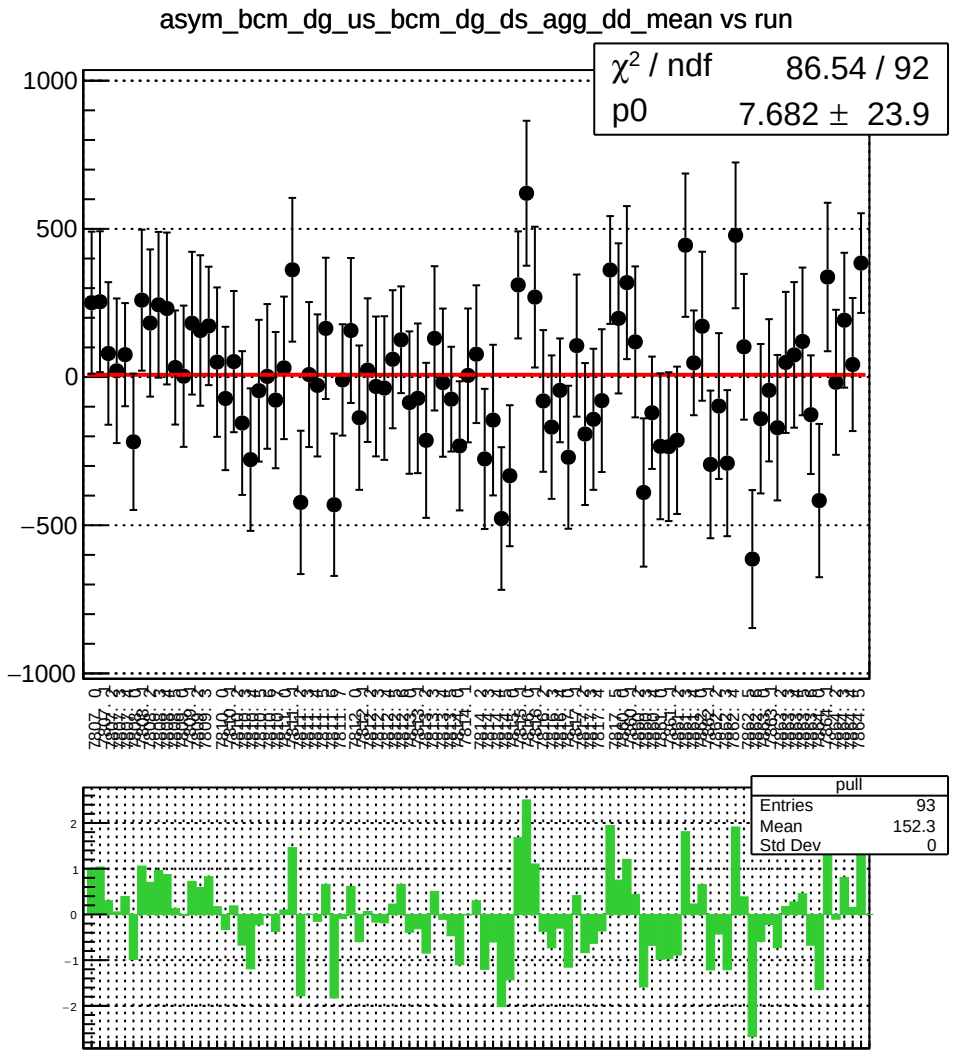

pull1D
Entries 93
Mean 0.005616
Std Dev 1.027
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

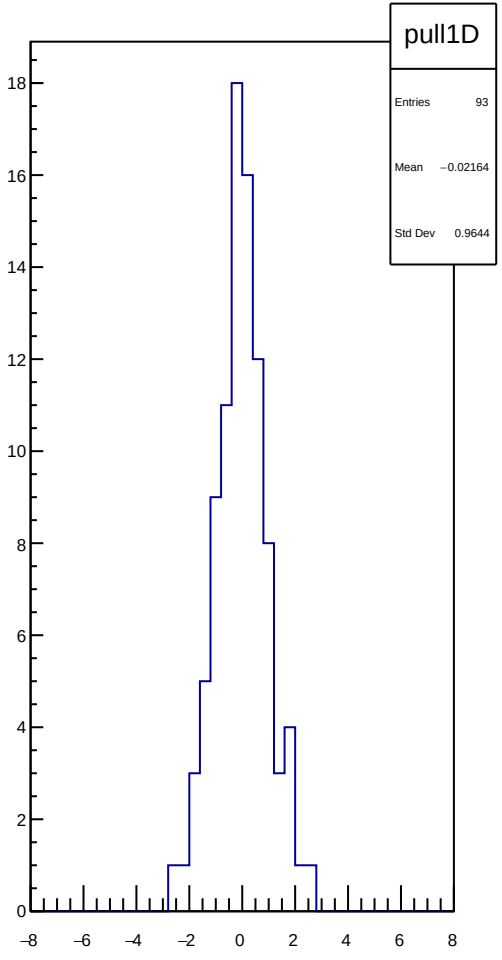

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2715 / 92
p0 16.56 ± 0.01218
18.5
18
17.5
17
16.5
16
15.5
15

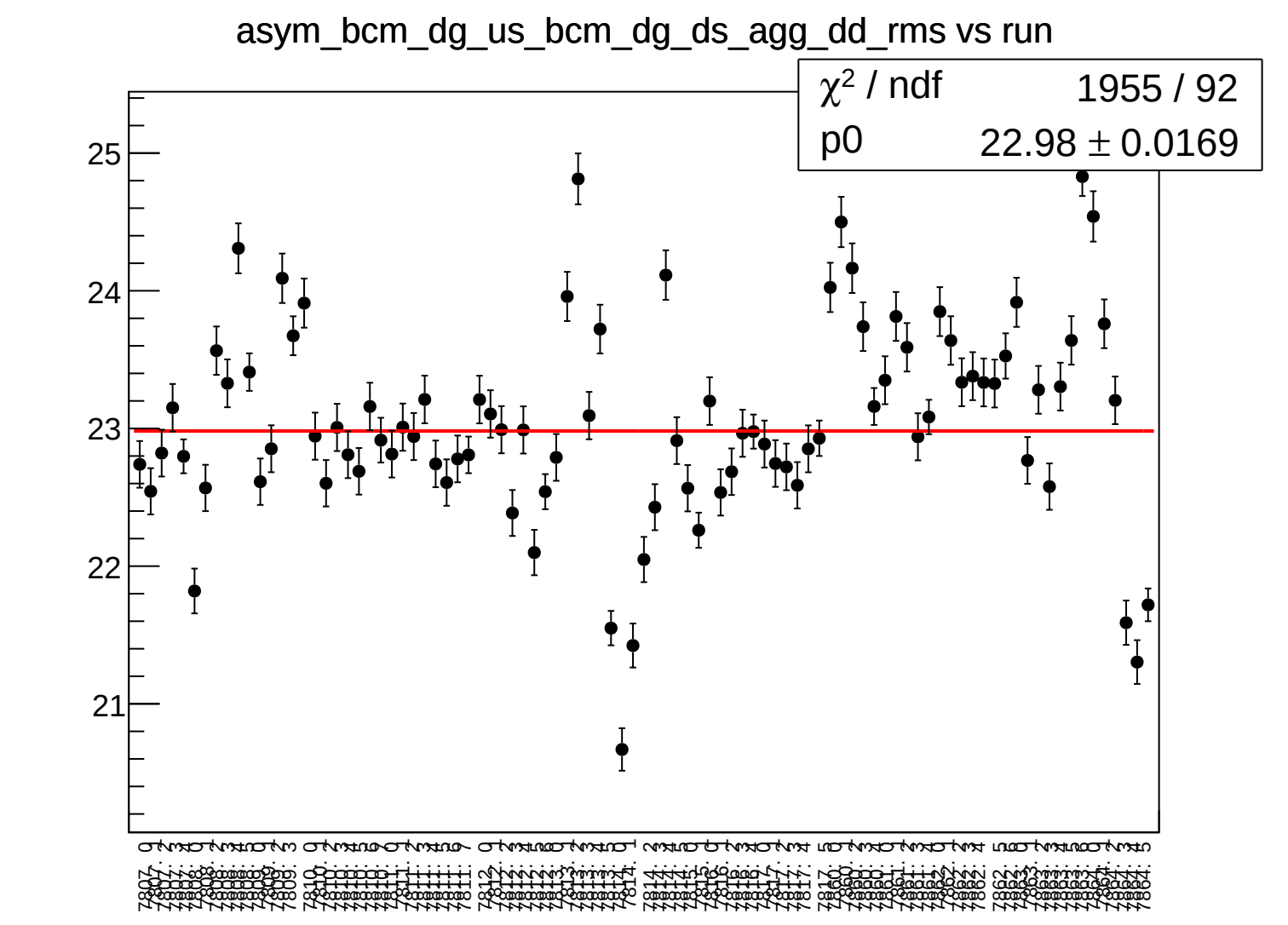

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 24.04 / 92
p0 433.6 ± 211.9
pull
Entries 93
Mean 25.77
Std Dev 0

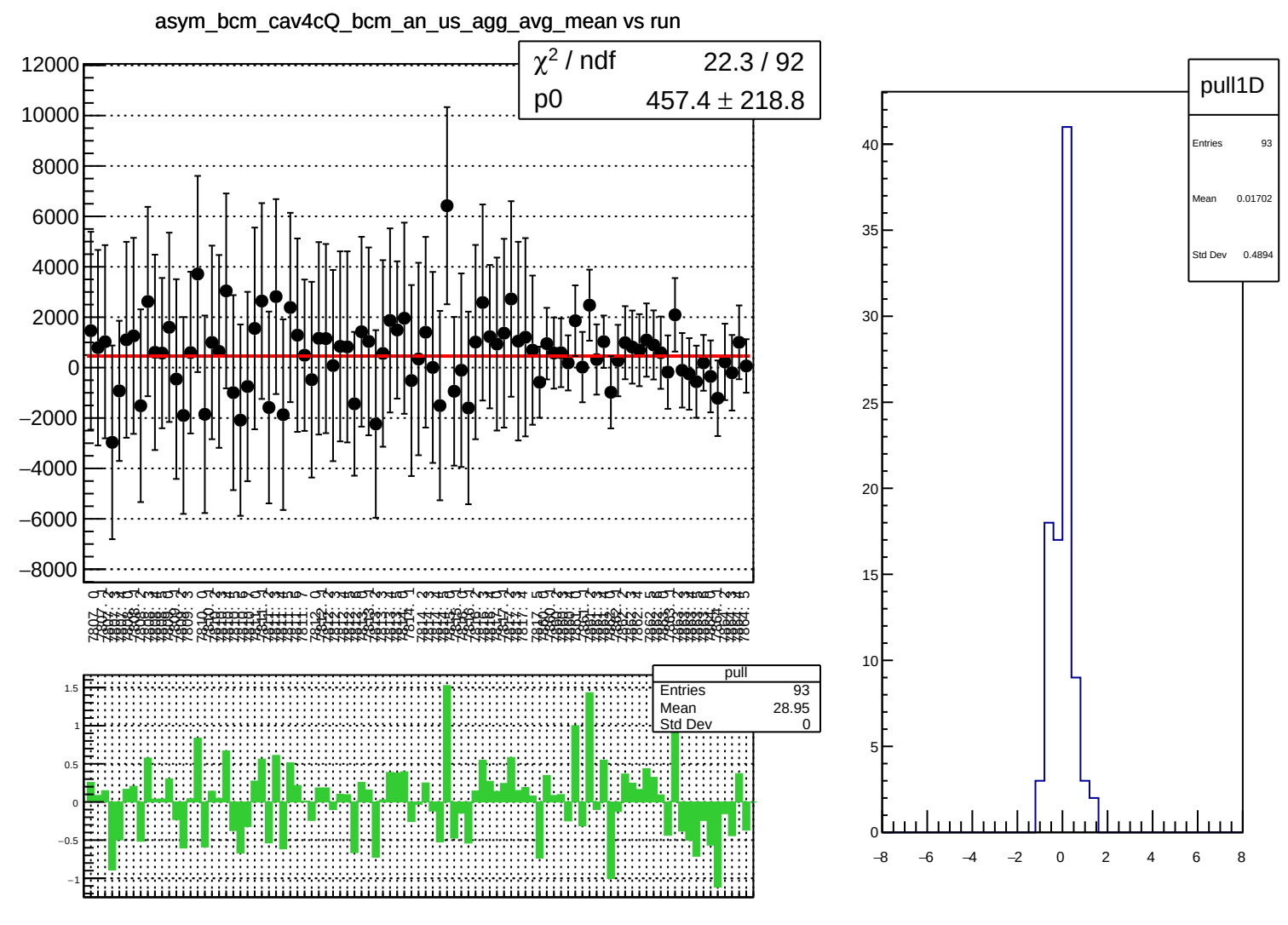

pull1D
Entries 93
Mean 0.01715
Std Dev 0.5081

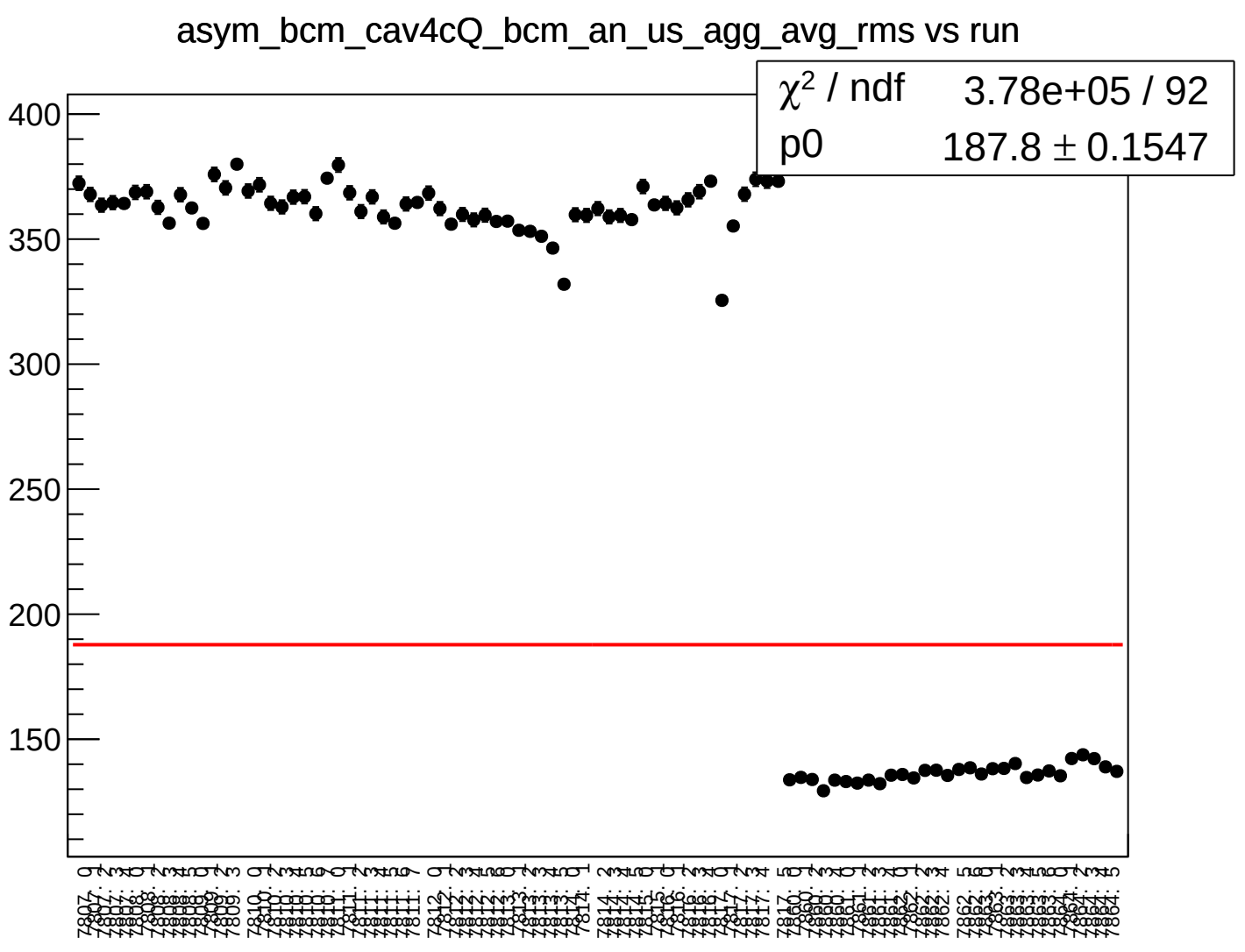

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 3.923e+05 / 92
p0 181 ± 0.1498
400
350
300
250
200
150
100

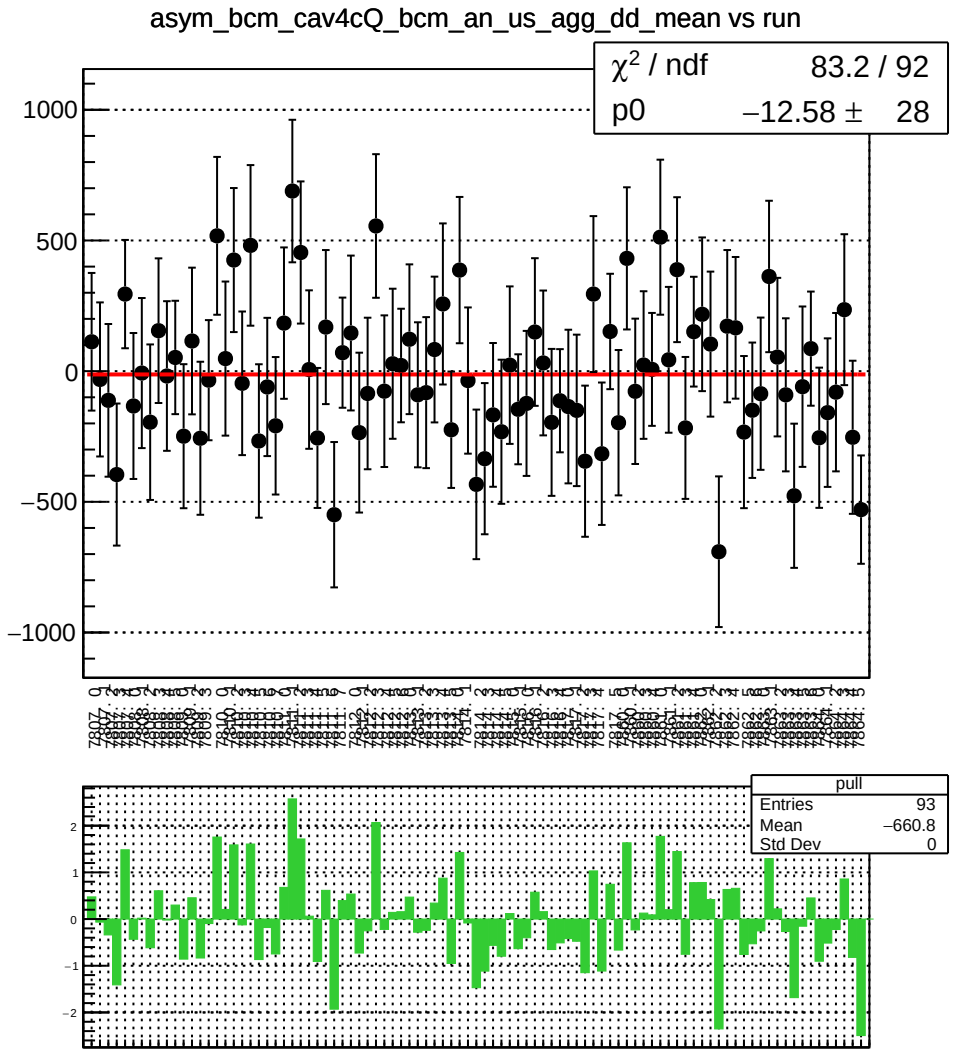

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 86.54 / 92
p0 7.682 ± 23.9
1000
500
0
−500
−1000
pull
Entries 93
Mean 152.3
Std Dev 0
2
1
0
−1
−2

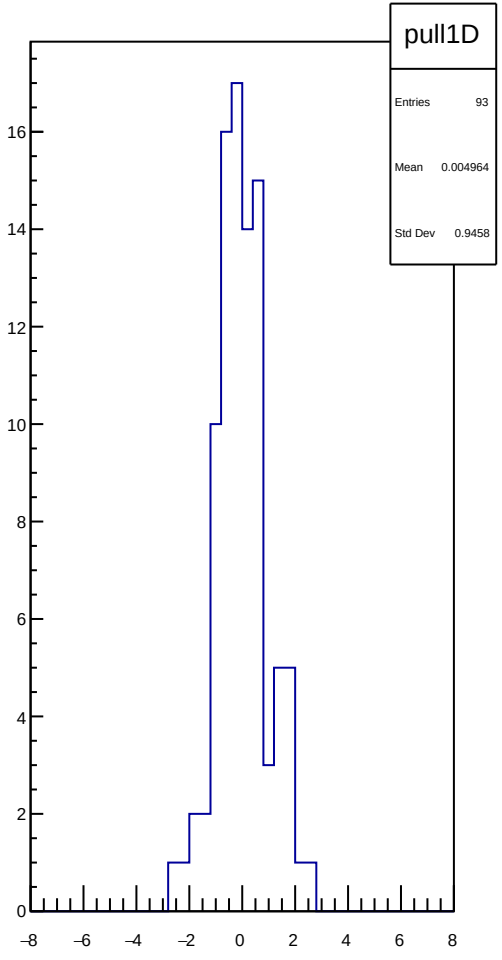

pull1D
Entries 93
Mean −0.02164
Std Dev 0.9644
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

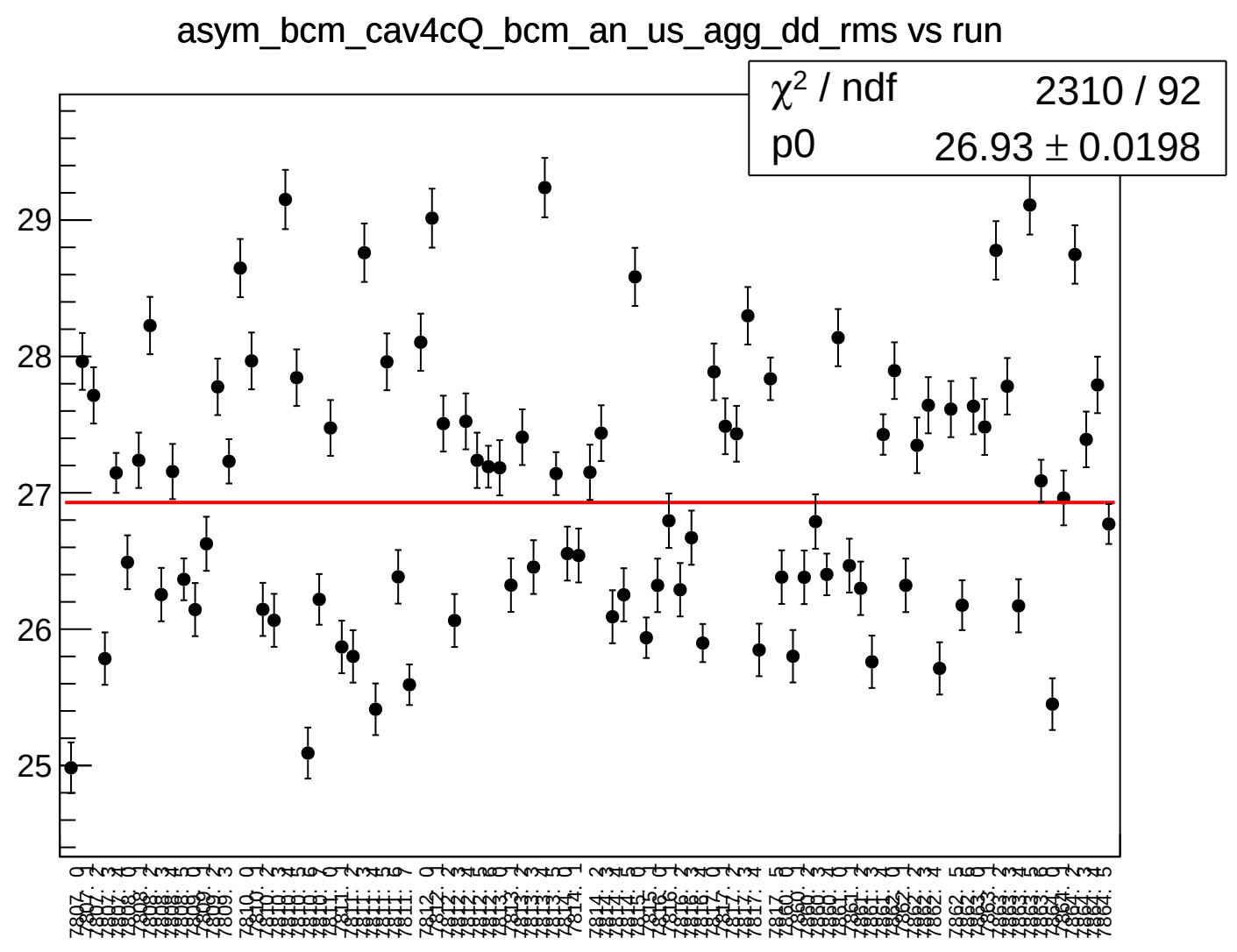

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1955 / 92
p0 22.98 ± 0.0169
25
24
23
22
21

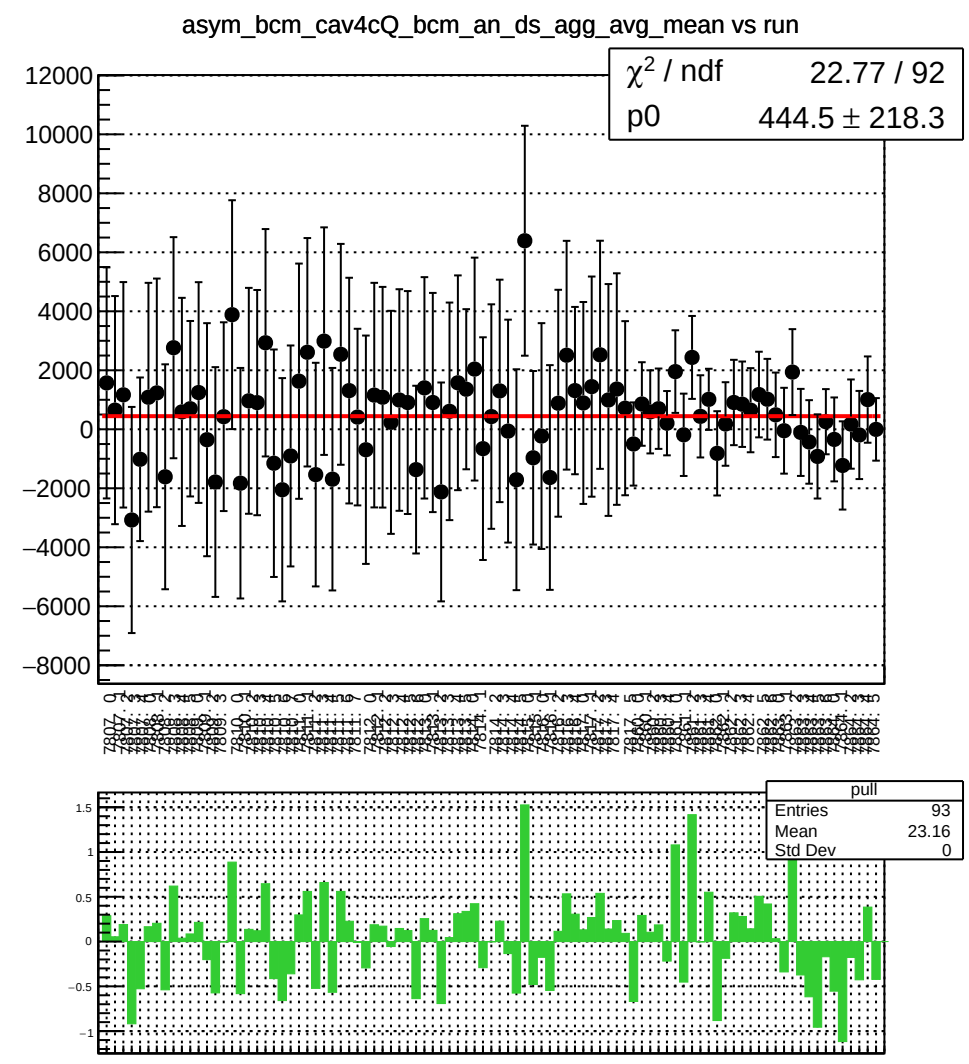

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 22.3 / 92
p0 457.4 ± 218.8
pull
Entries 93
Mean 28.95
Std Dev 0
pull1D
Entries 93
Mean 0.01702
Std Dev 0.4894

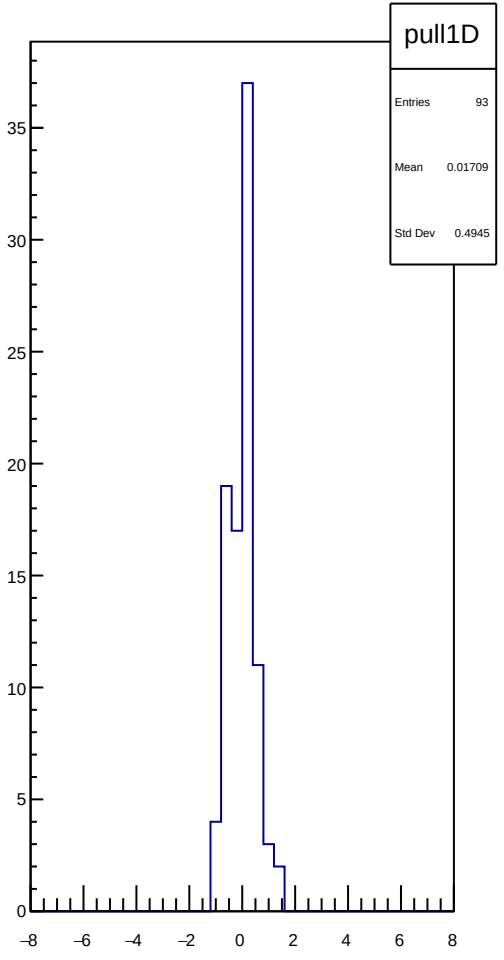

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 3.78e+05 / 92
p0 187.8 ± 0.1547
400
350
300
250
200
150

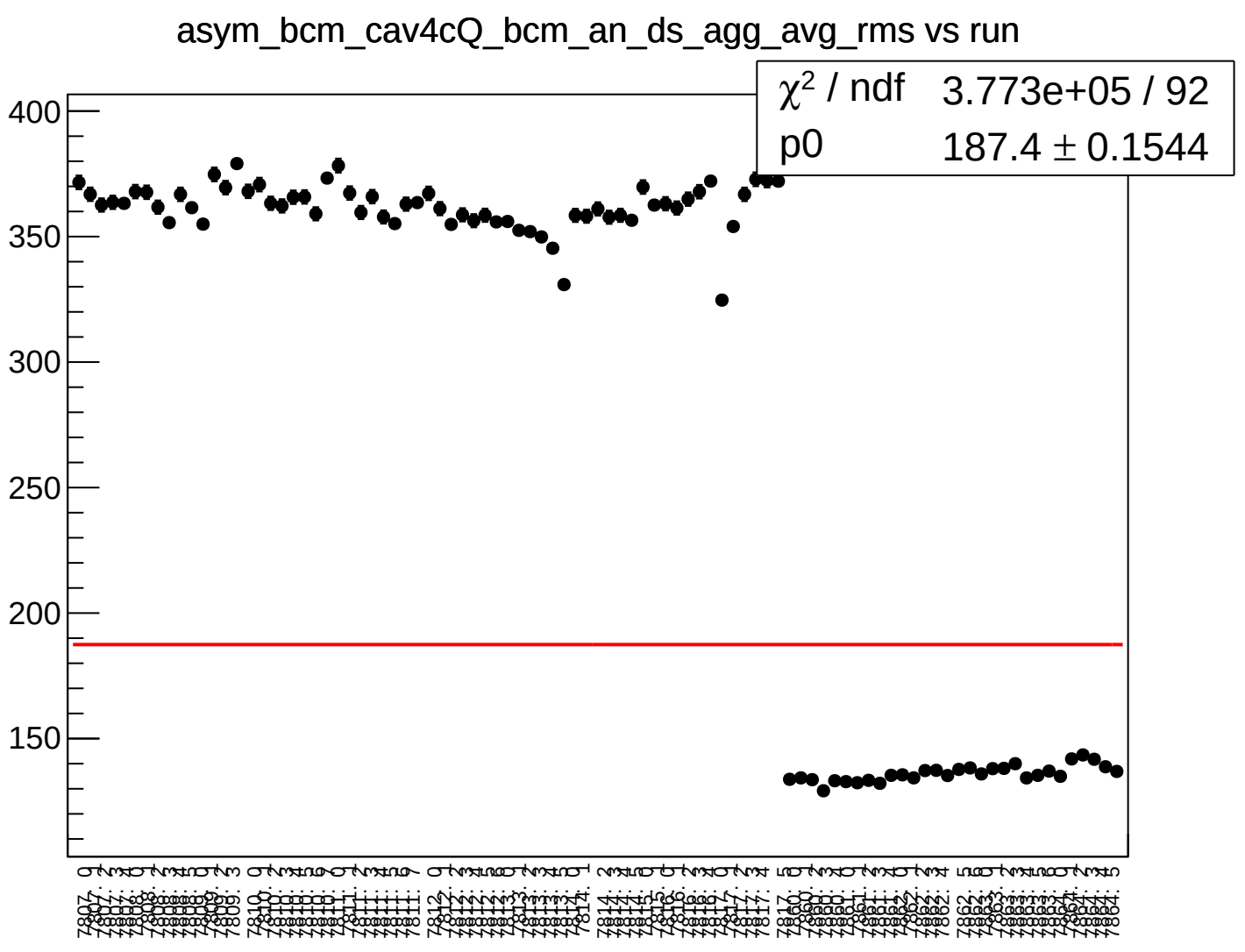

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 83.2 / 92
p0 −12.58 ± 28
1000
500
0
−500
−1000
pull
Entries 93
Mean −660.8
Std Dev 0
2
1
0
−1
−2

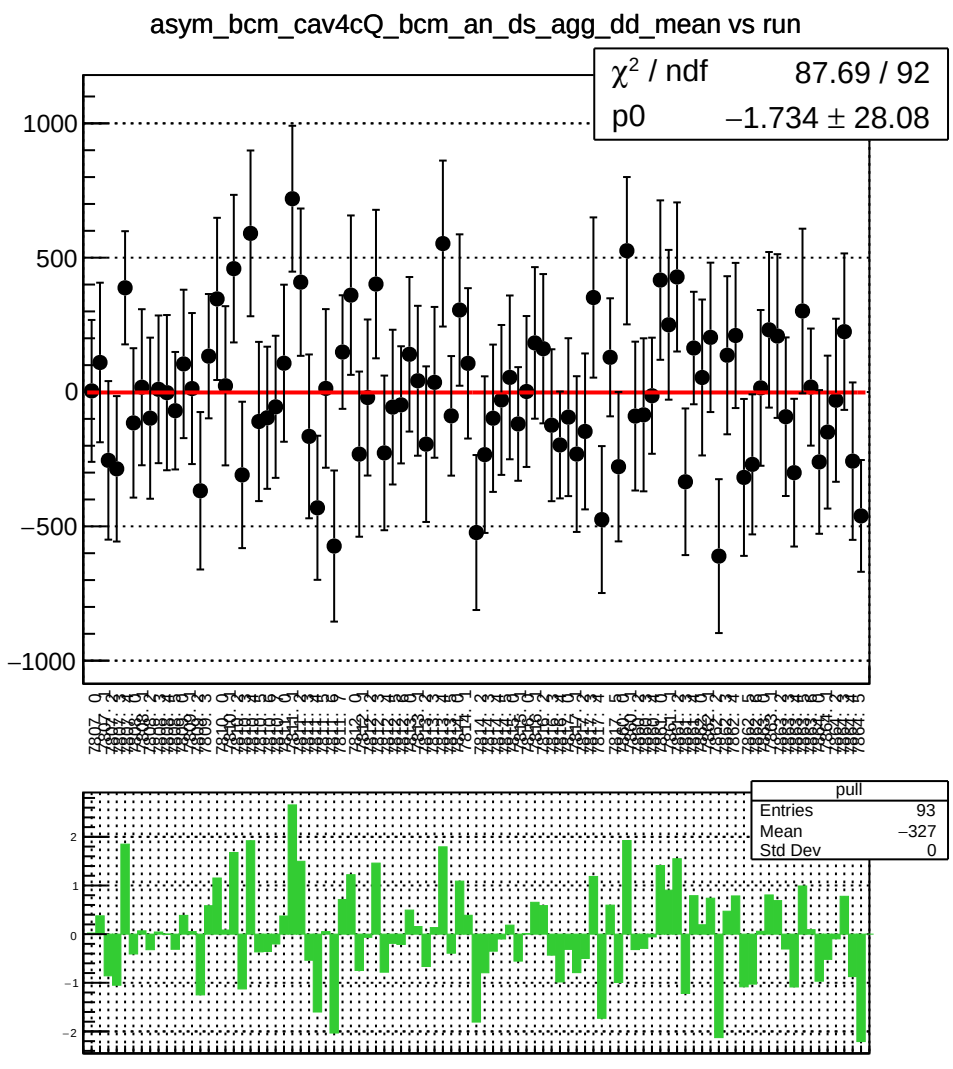

pull1D
Entries 93
Mean 0.004964
Std Dev 0.9458
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

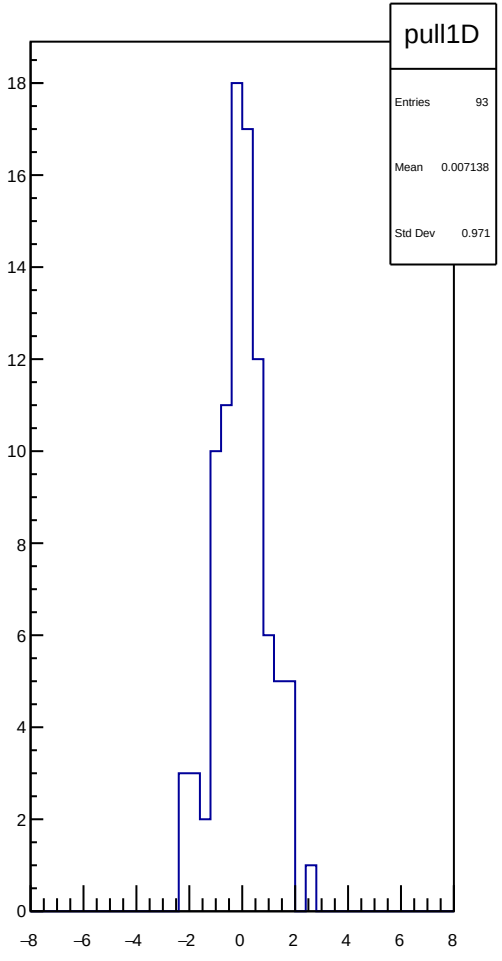

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2310 / 92
p0 26.93 ± 0.0198
29
28
27
26
25

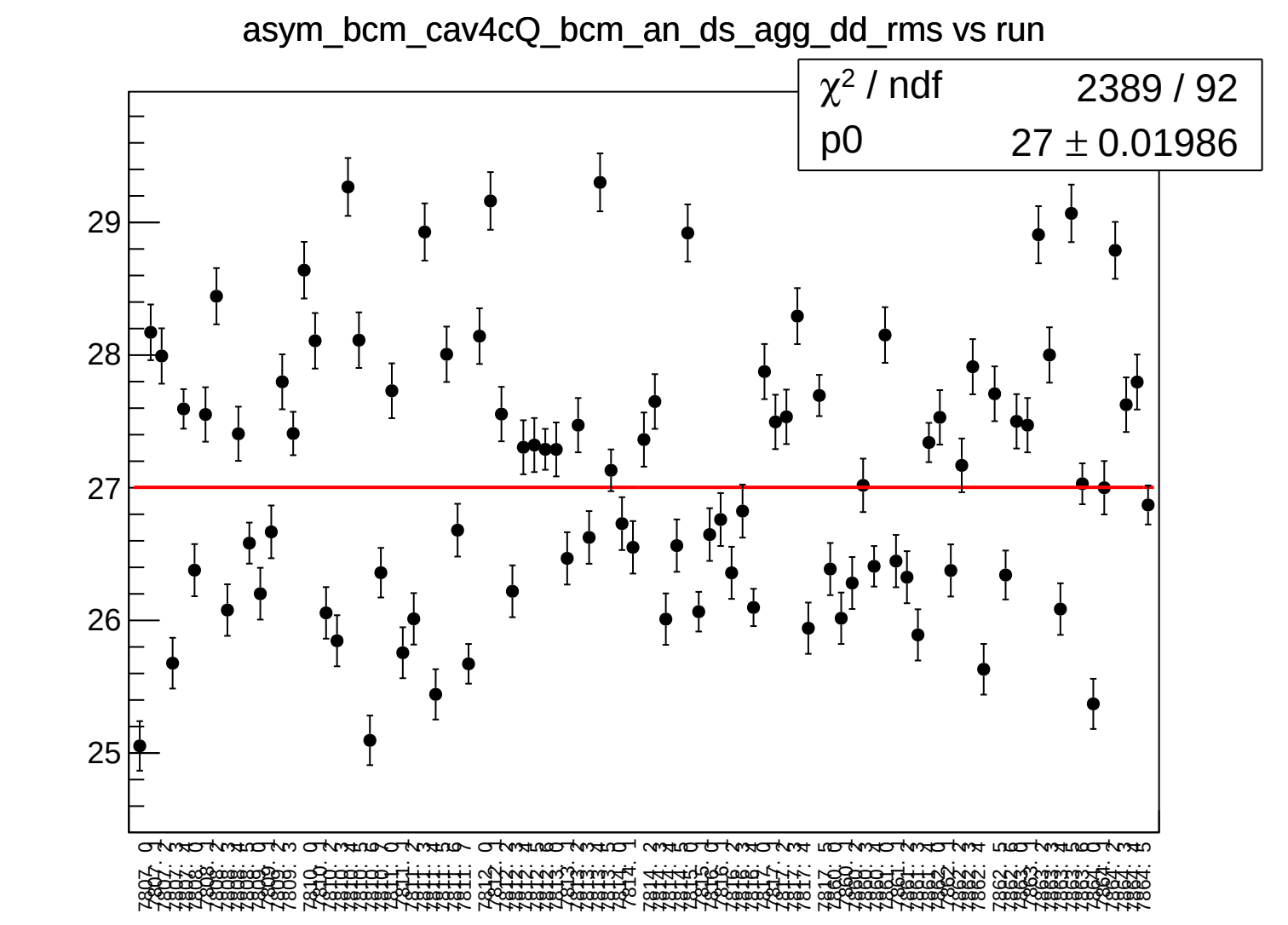

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 22.77 / 92
p0 444.5 ± 218.3
pull
Entries 93
Mean 23.16
Std Dev 0

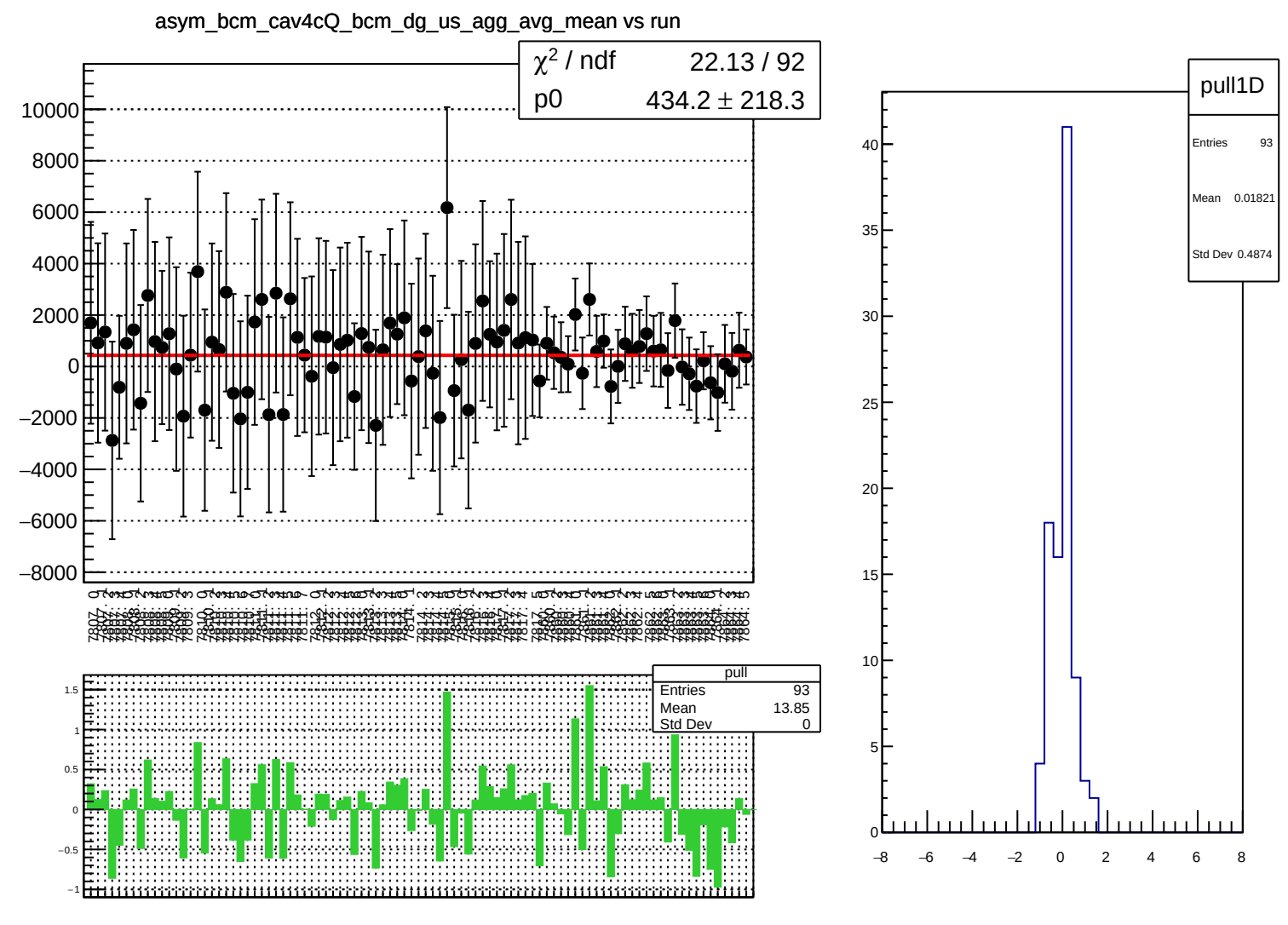

pull1D
Entries 93
Mean 0.01709
Std Dev 0.4945

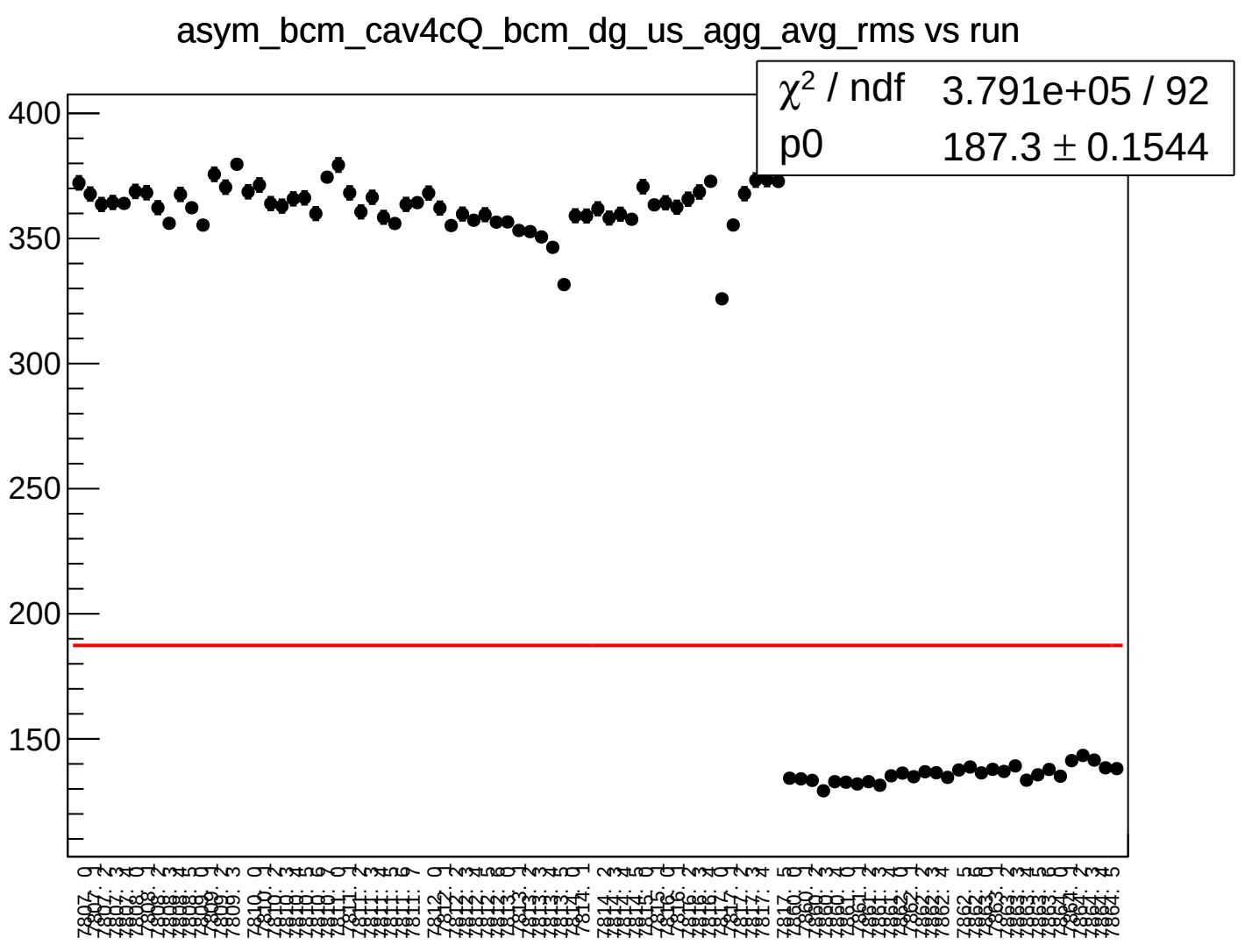

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3.773e+05 / 92
p0 187.4 ± 0.1544
400
350
300
250
200
150

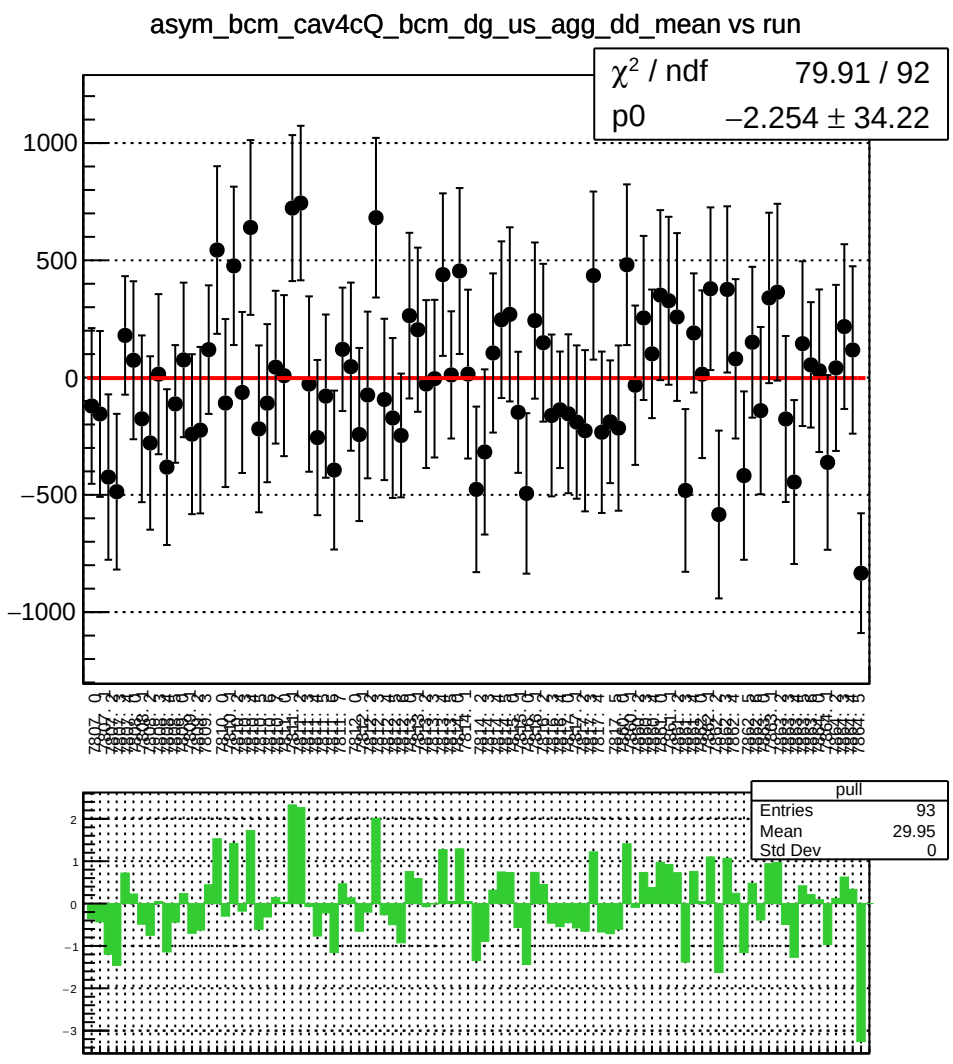

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 87.69 / 92
p0 −1.734 ± 28.08
1000
500
0
−500
−1000
pull
Entries 93
Mean −327
Std Dev 0
2
1
0
−1
−2

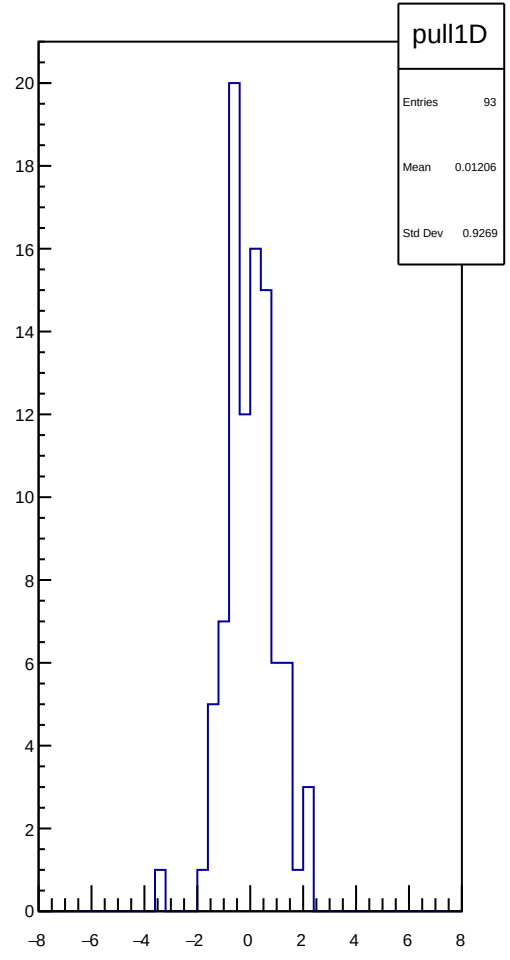

pull1D
Entries 93
Mean 0.007138
Std Dev 0.971
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

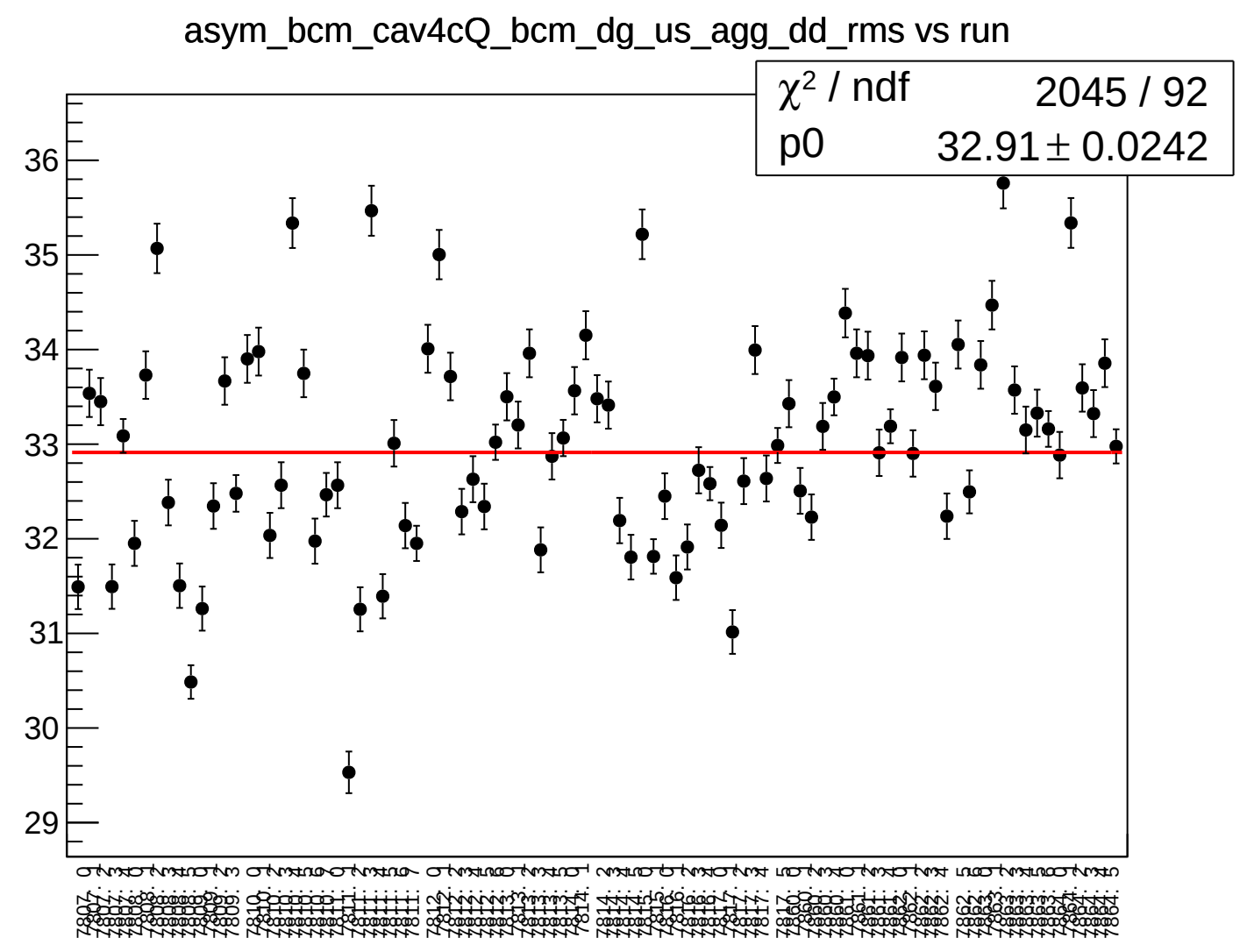

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2389 / 92
p0 27 ± 0.01986
29
28
27
26
25

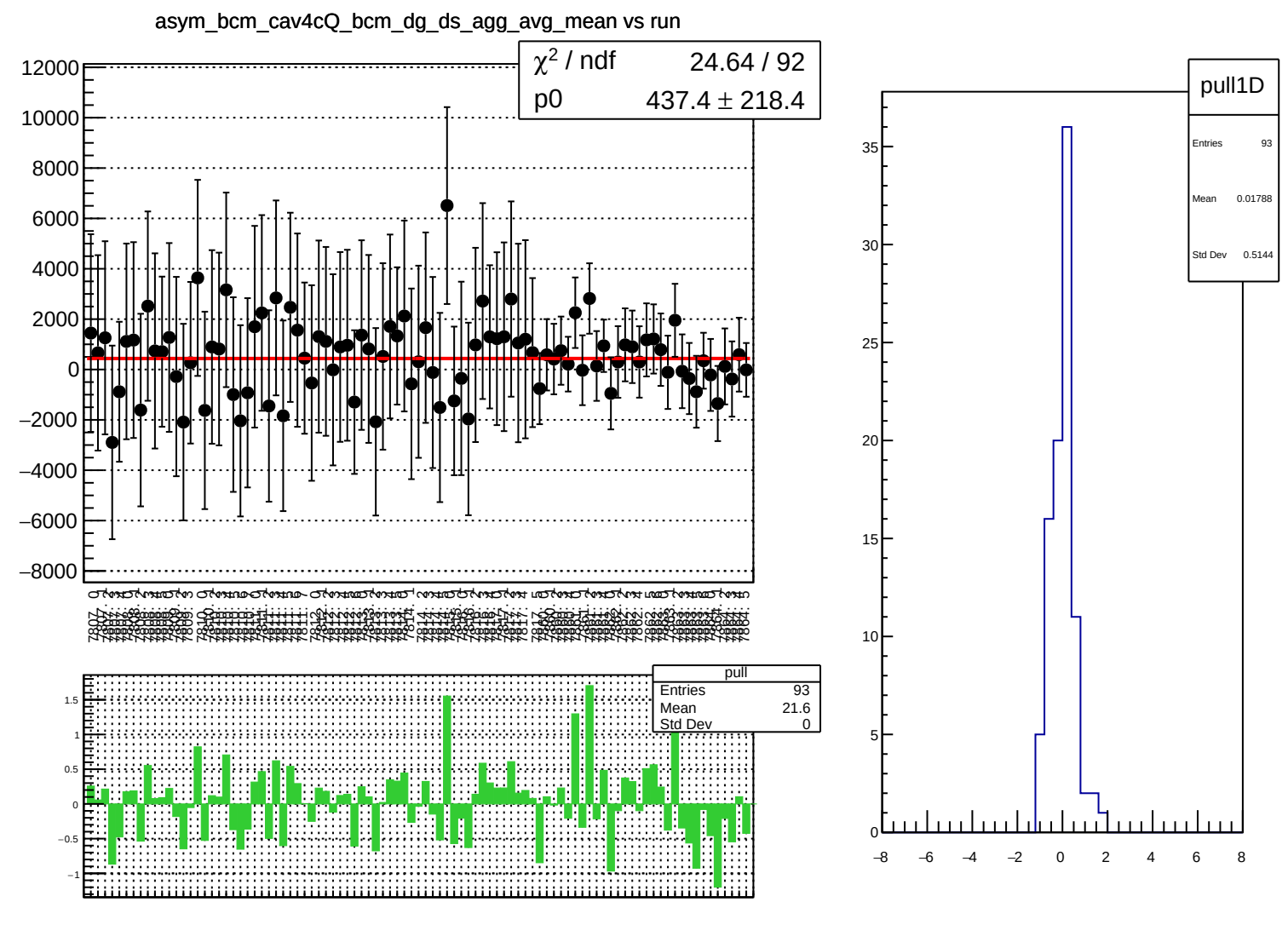

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 22.13 / 92
p0 434.2 ± 218.3
pull
Entries 93
Mean 13.85
Std Dev 0
pull1D
Entries 93
Mean 0.01821
Std Dev 0.4874

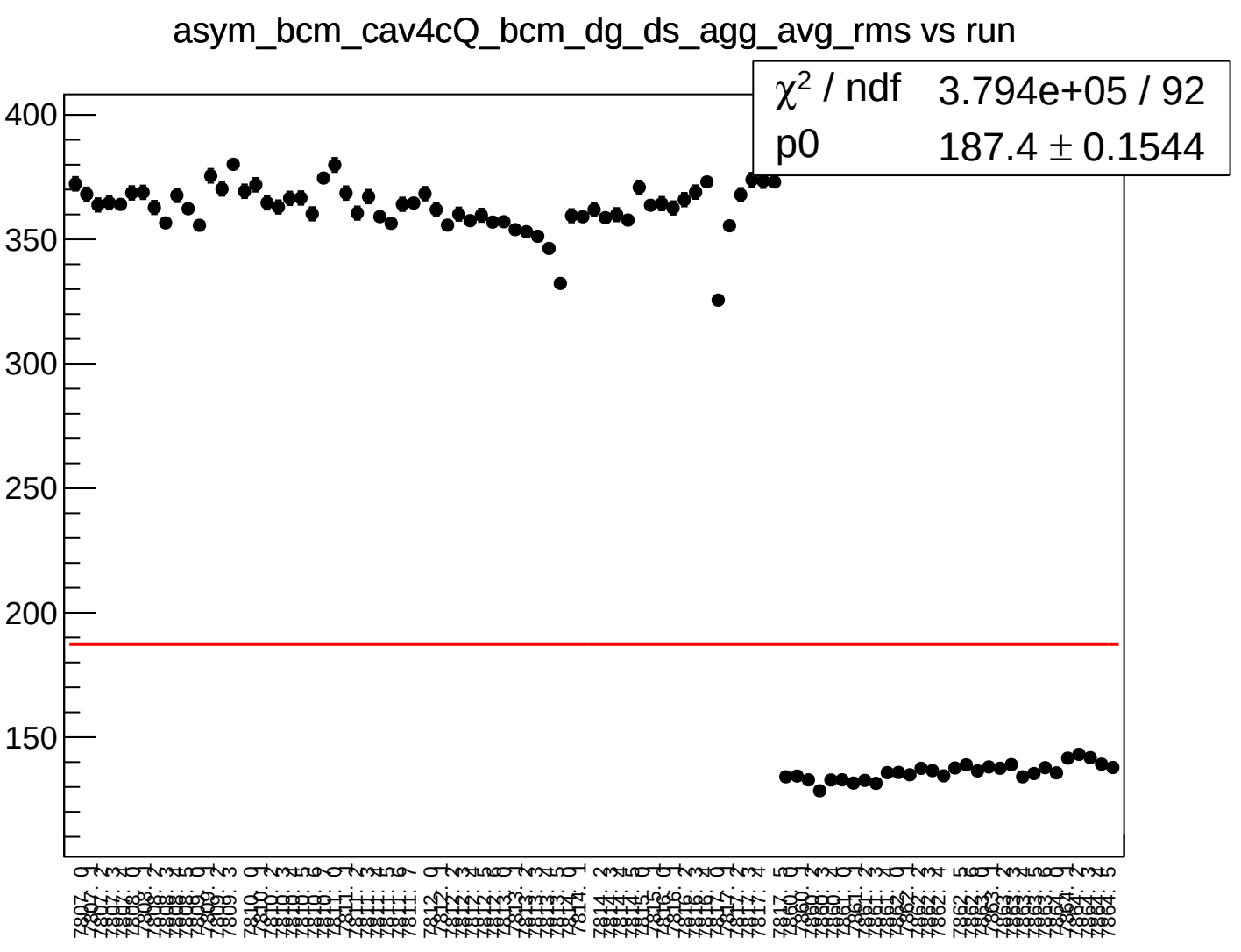

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 3.791e+05 / 92
p0 187.3 ± 0.1544
400
350
300
250
200
150

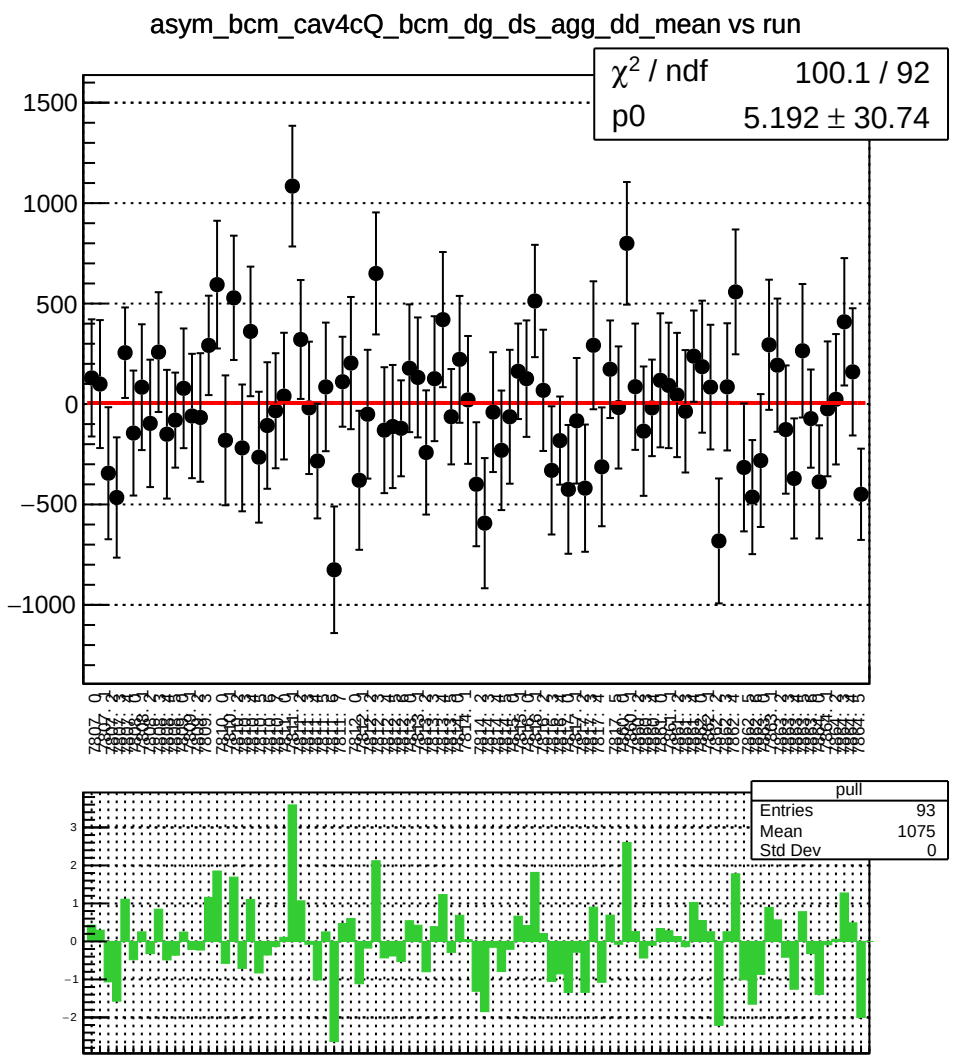

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 79.91 / 92
p0 −2.254 ± 34.22
1000
500
0
−500
−1000
pull
Entries 93
Mean 29.95
Std Dev 0
2
1
0
−1
−2
−3

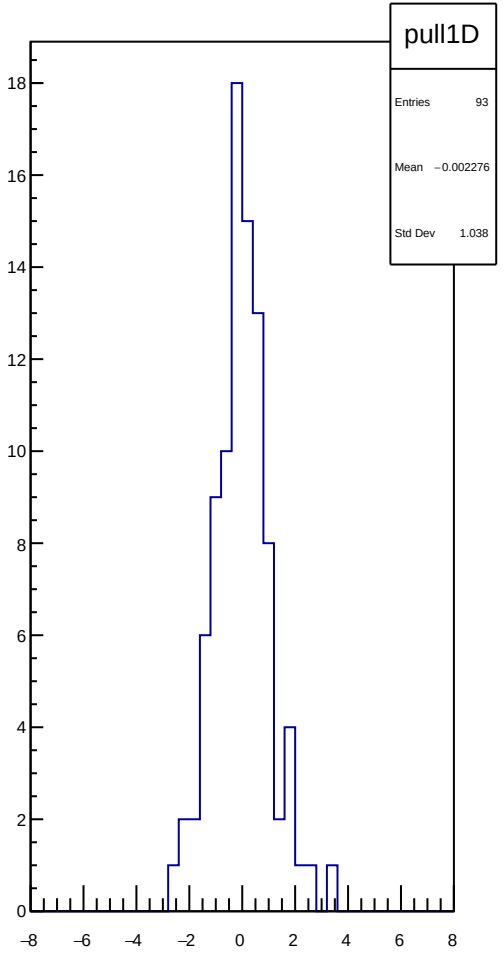

pull1D
Entries 93
Mean 0.01206
Std Dev 0.9269
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

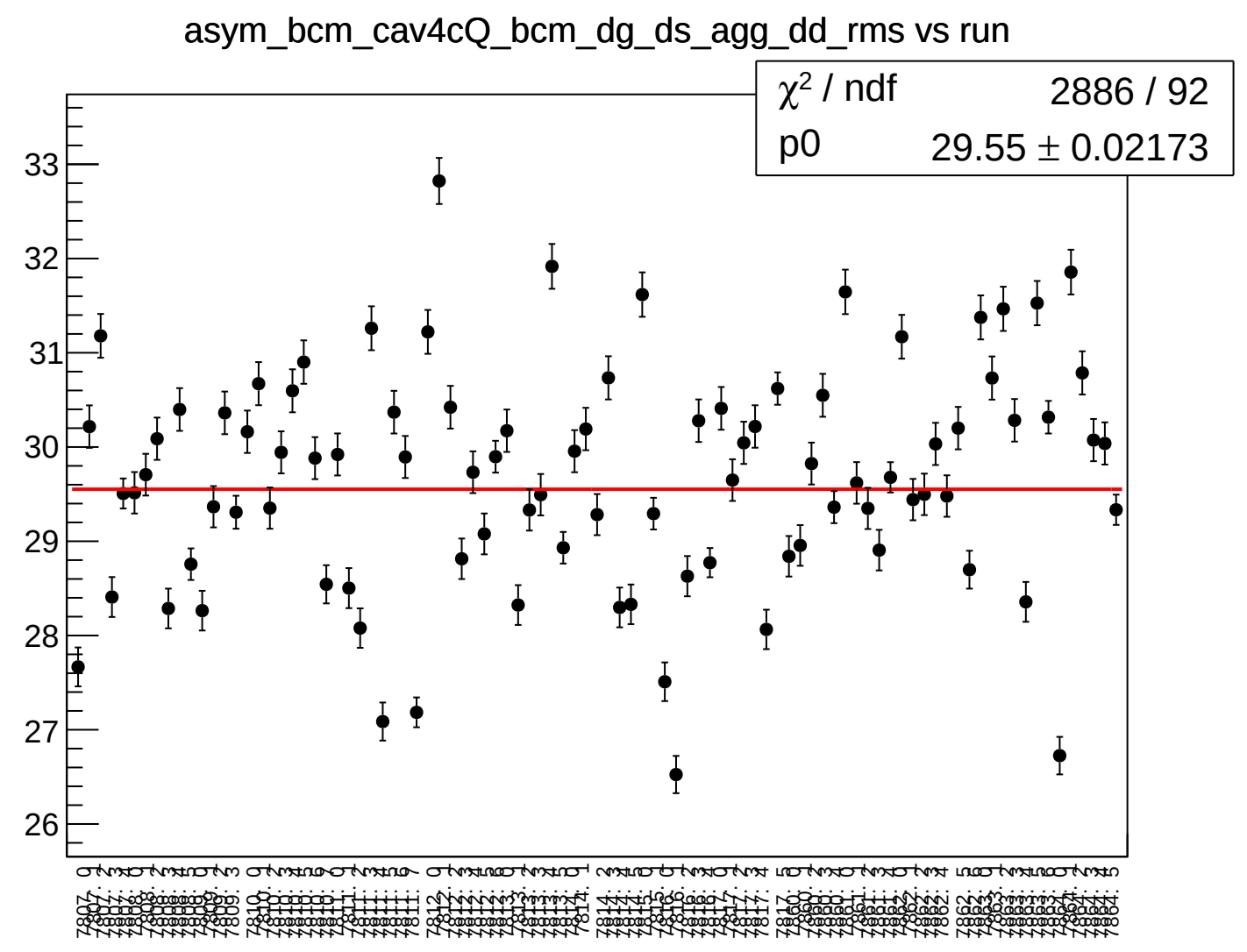

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 2045 / 92
p0 32.91 ± 0.0242
36
35
34
33
32
31
30
29

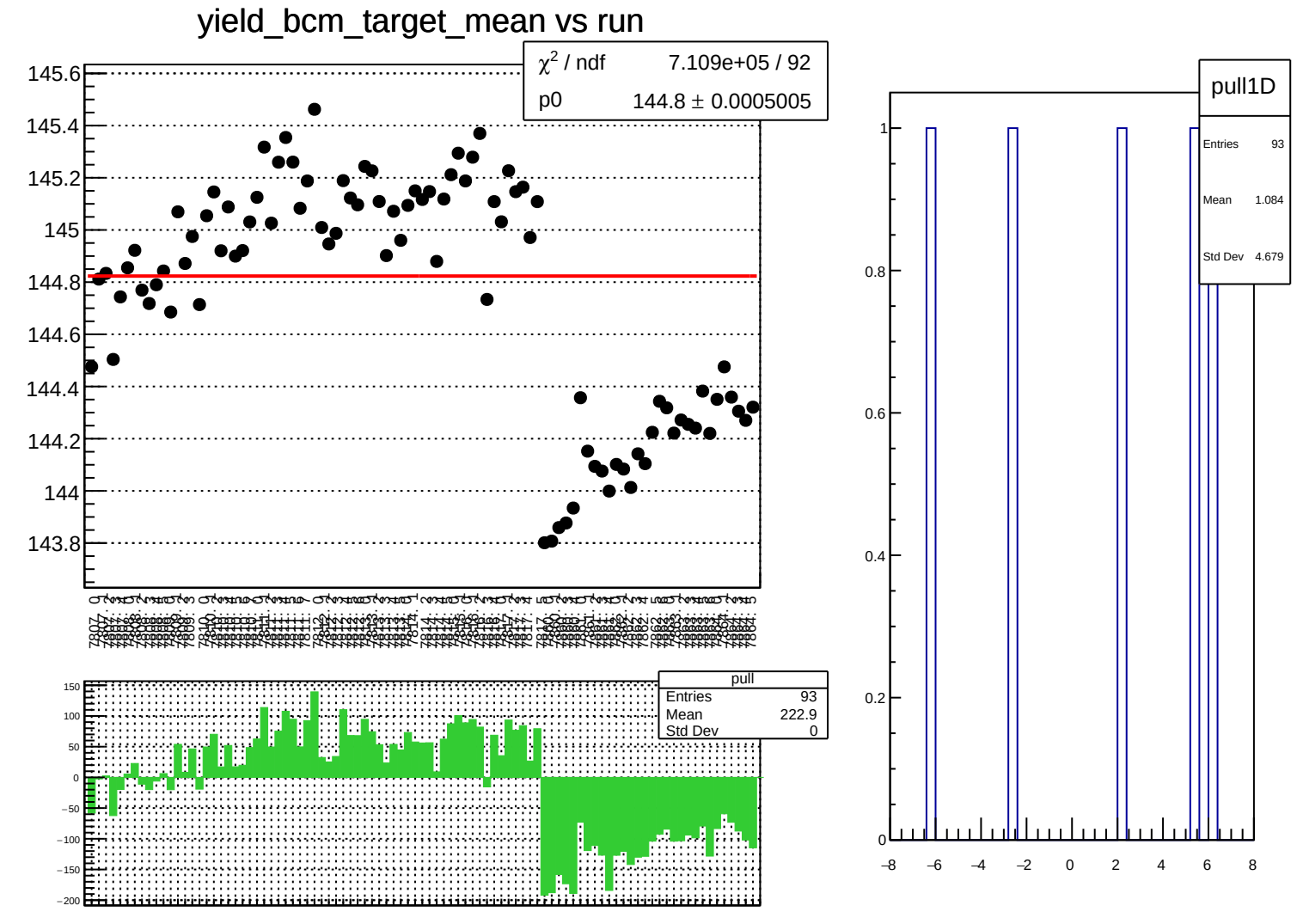

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 24.64 / 92
p0 437.4 ± 218.4
pull
Entries 93
Mean 21.6
Std Dev 0
pull1D
Entries 93
Mean 0.01788
Std Dev 0.5144

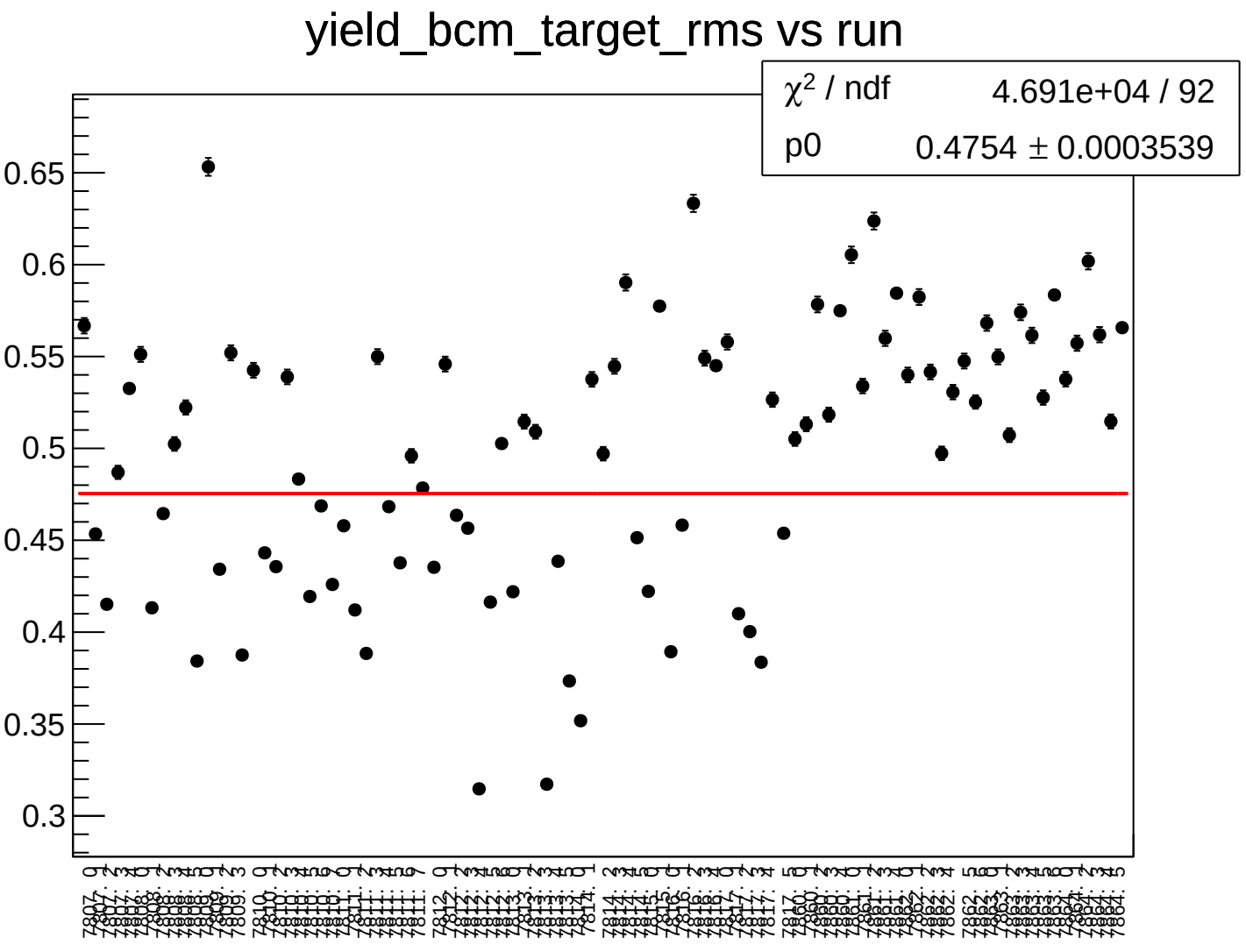

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 3.794e+05 / 92
p0 187.4 ± 0.1544
400
350
300
250
200
150

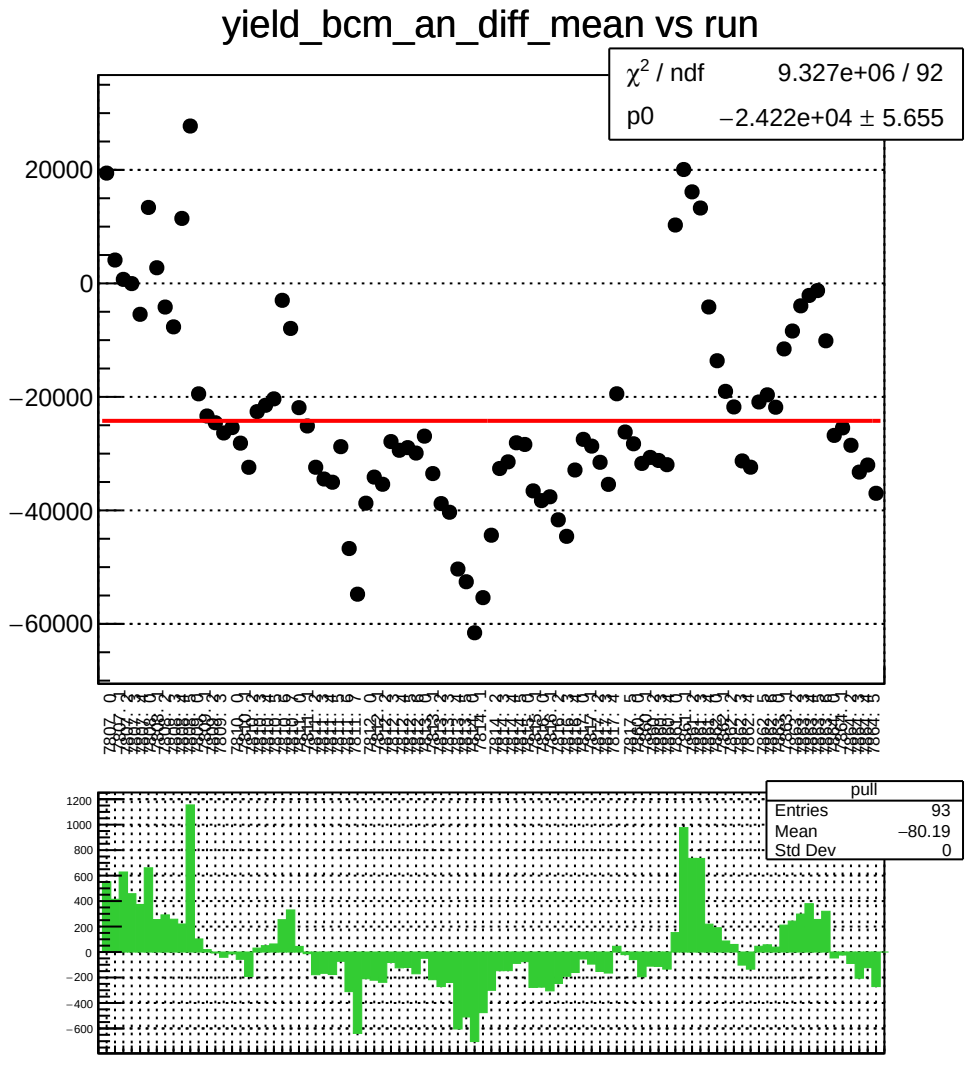

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 100.1 / 92
p0 5.192 ± 30.74
1500
1000
500
0
−500
−1000
pull
Entries 93
Mean 1075
Std Dev 0
3
2
1
0
−1
−2

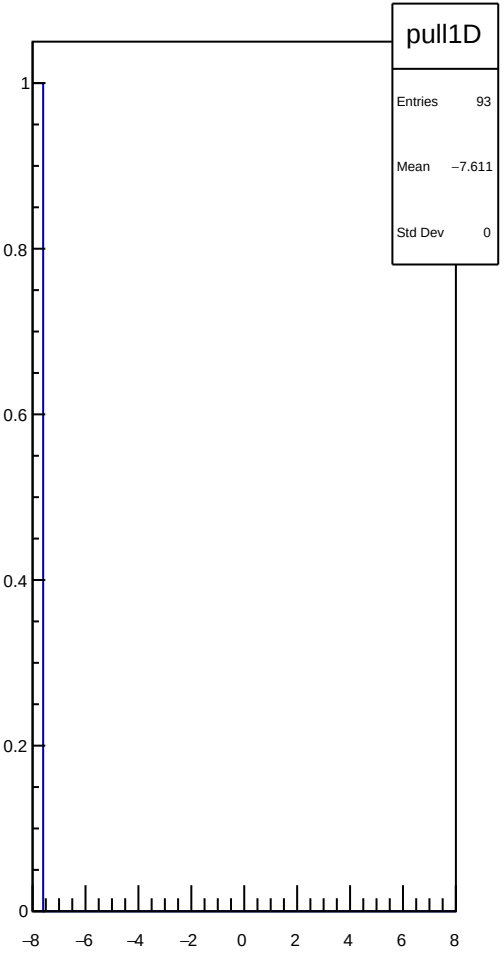

pull1D
Entries 93
Mean −0.002276
Std Dev 1.038
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

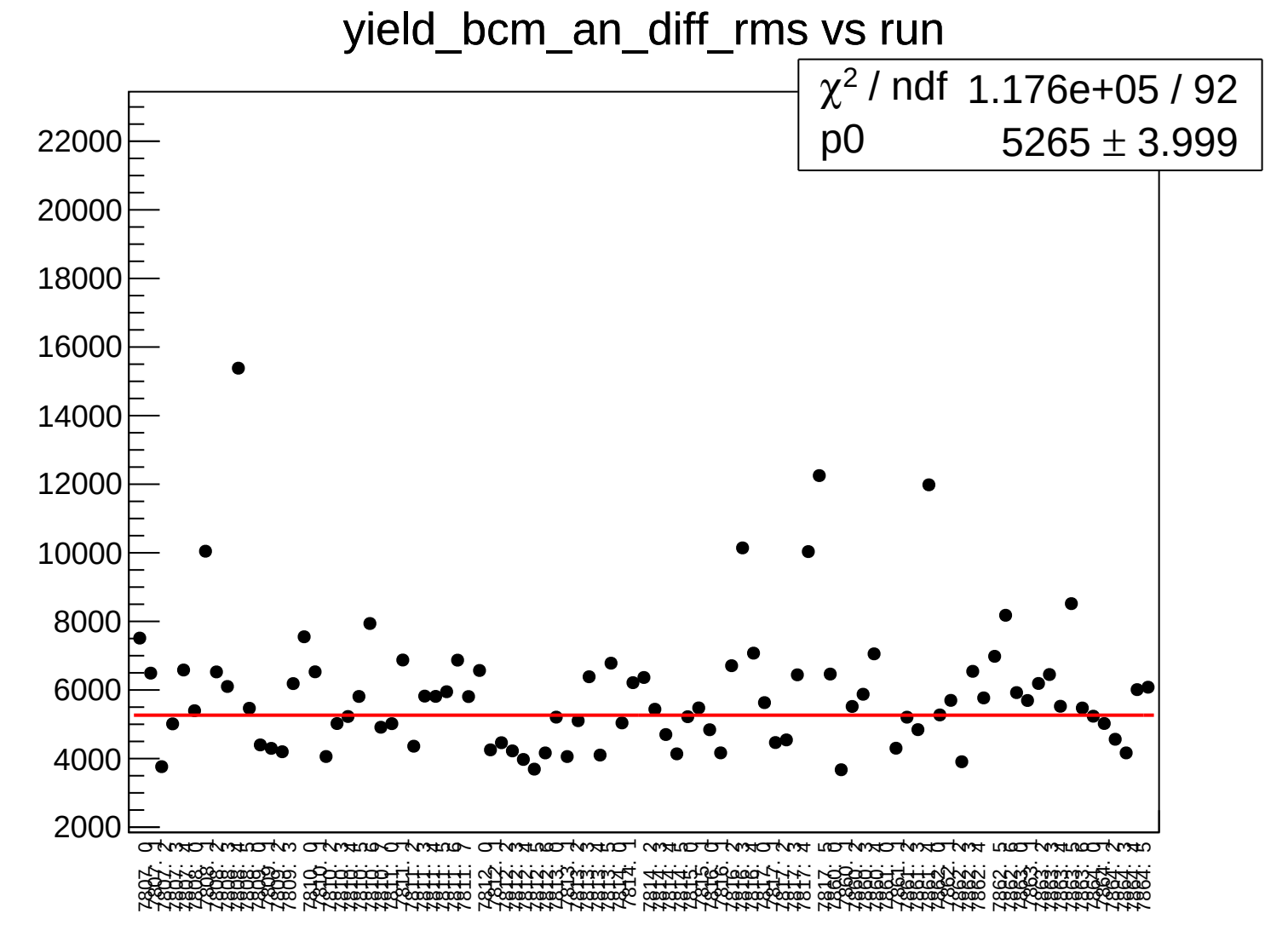

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2886 / 92
p0 29.55 ± 0.02173
33
32
31
30
29
28
27
26

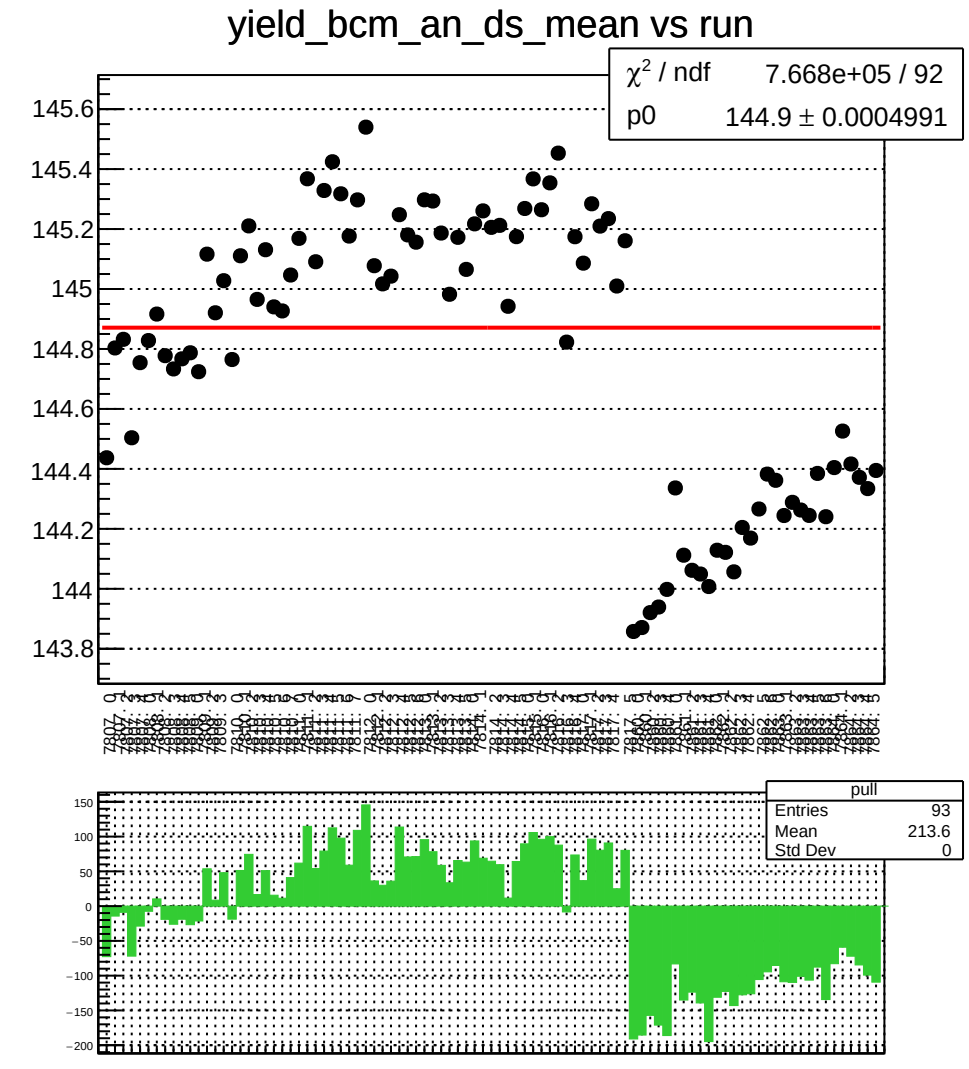

yield_bcm_target_mean vs run
χ² / ndf 7.109e+05 / 92
p0 144.8 ± 0.0005005
145.6
145.4
145.2
145
144.8
144.6
144.4
144.2
144
143.8
pull
Entries 93
Mean 222.9
Std Dev 0
150
100
50
0
−50
−100
−150
−200
pull1D
Entries 93
Mean 1.084
Std Dev 4.679
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

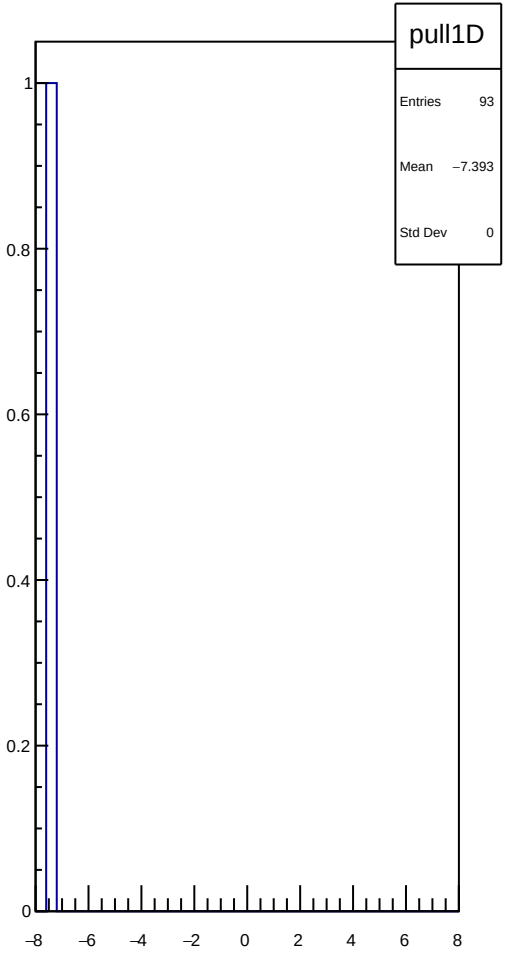

yield_bcm_target_rms vs run
χ² / ndf 4.691e+04 / 92
p0 0.4754 ± 0.0003539
0.65
0.6
0.55
0.5
0.45
0.4
0.35
0.3

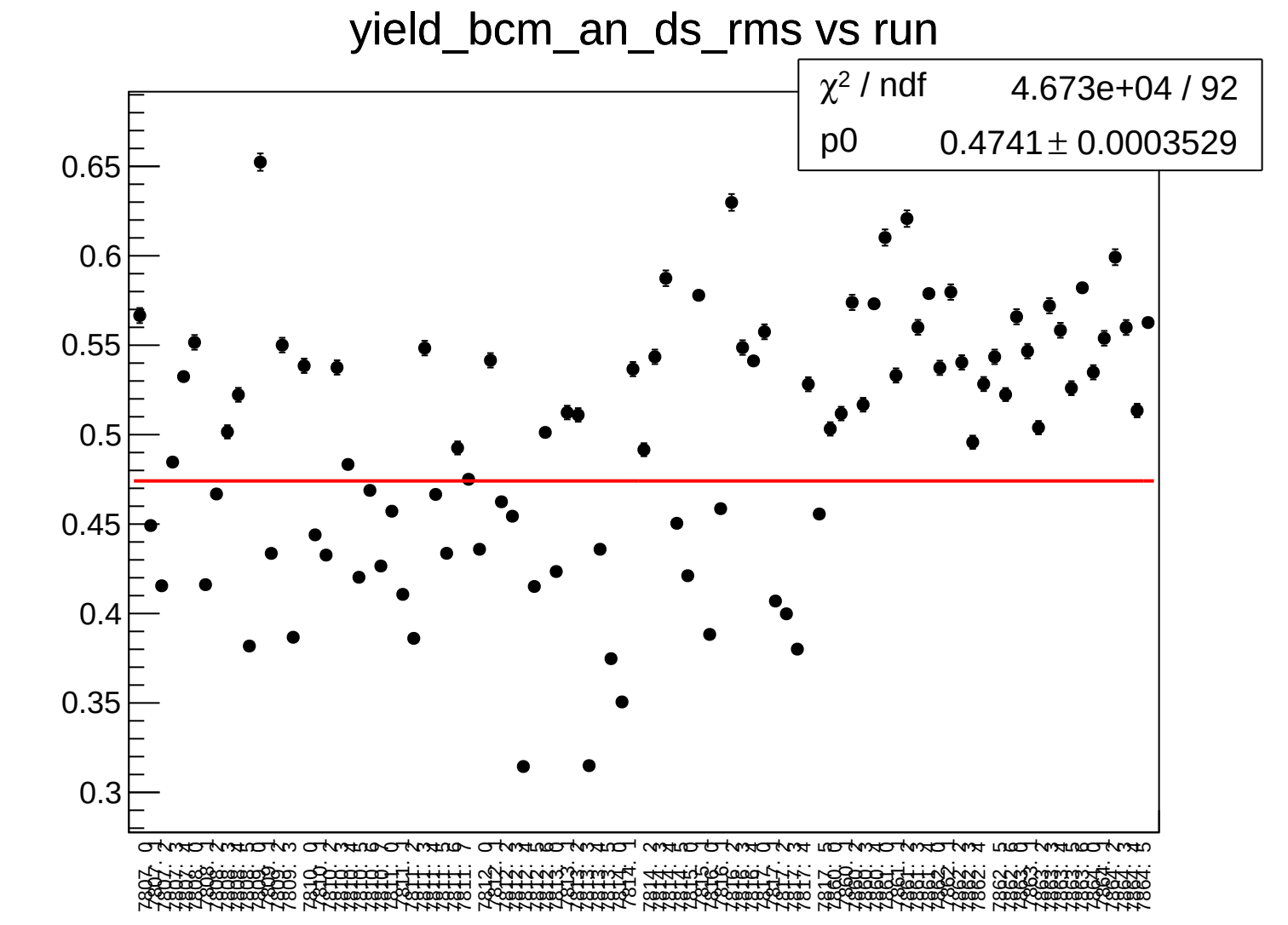

yield_bcm_an_diff_mean vs run
χ² / ndf 9.327e+06 / 92
p0 −2.422e+04 ± 5.655
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −80.19
Std Dev 0
1200
1000
800
600
400
200
0
−200
−400
−600

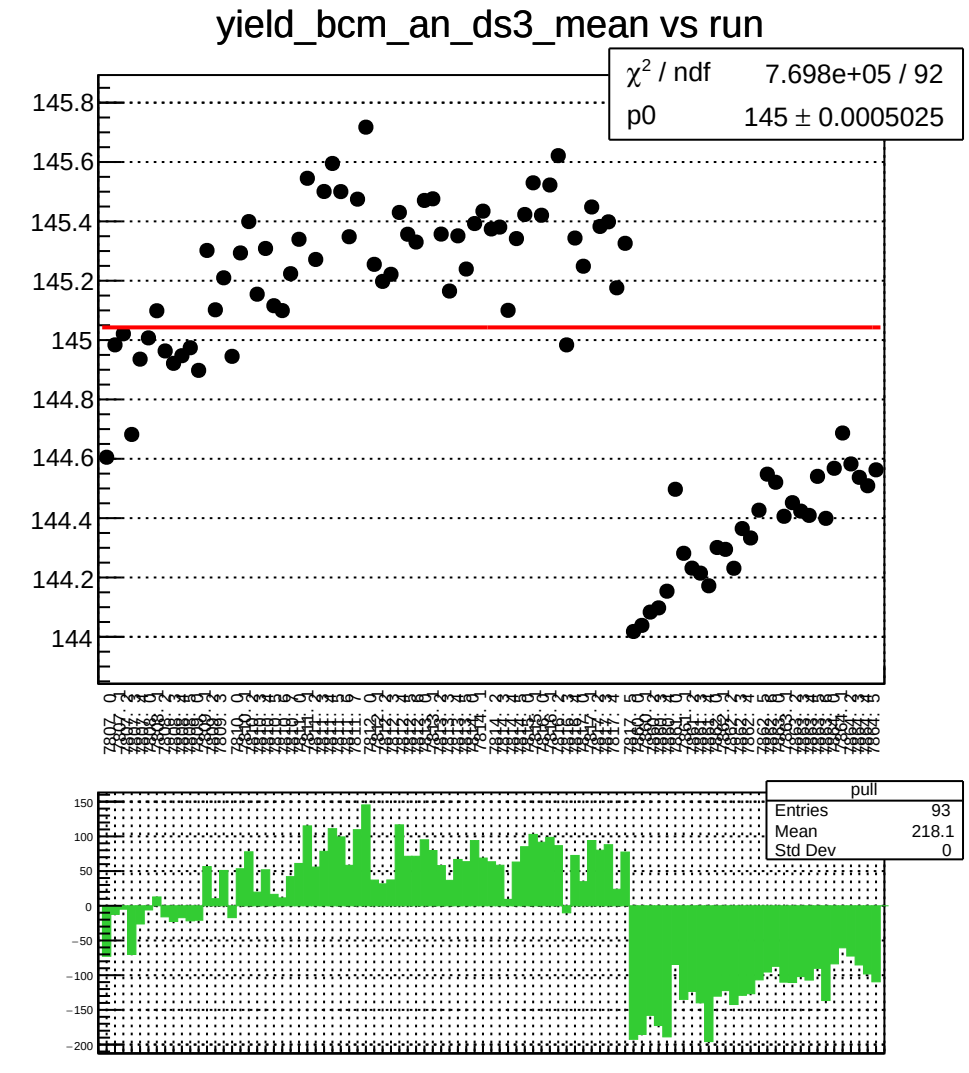

pull1D
Entries 93
Mean −7.611
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

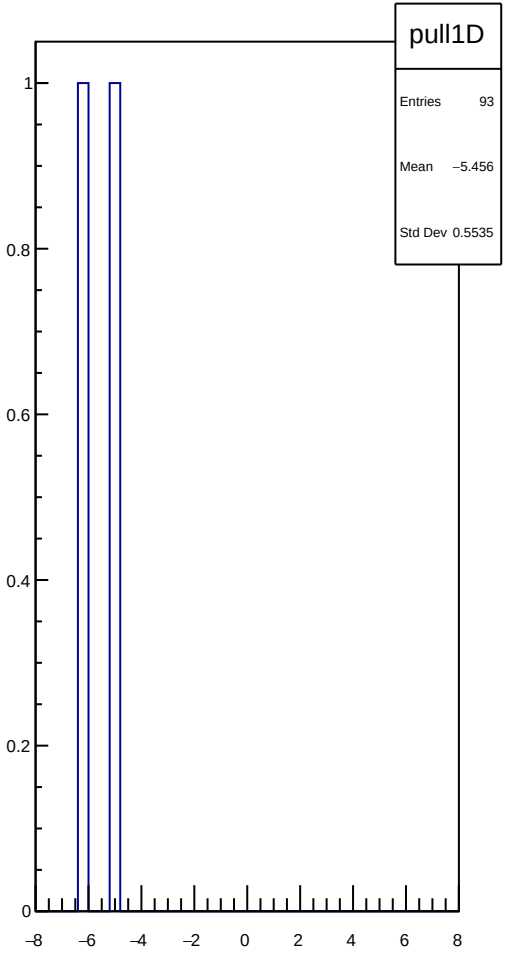

yield_bcm_an_diff_rms vs run
χ^2 / ndf 1.176e+05 / 92
p0 5265 ± 3.999
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000

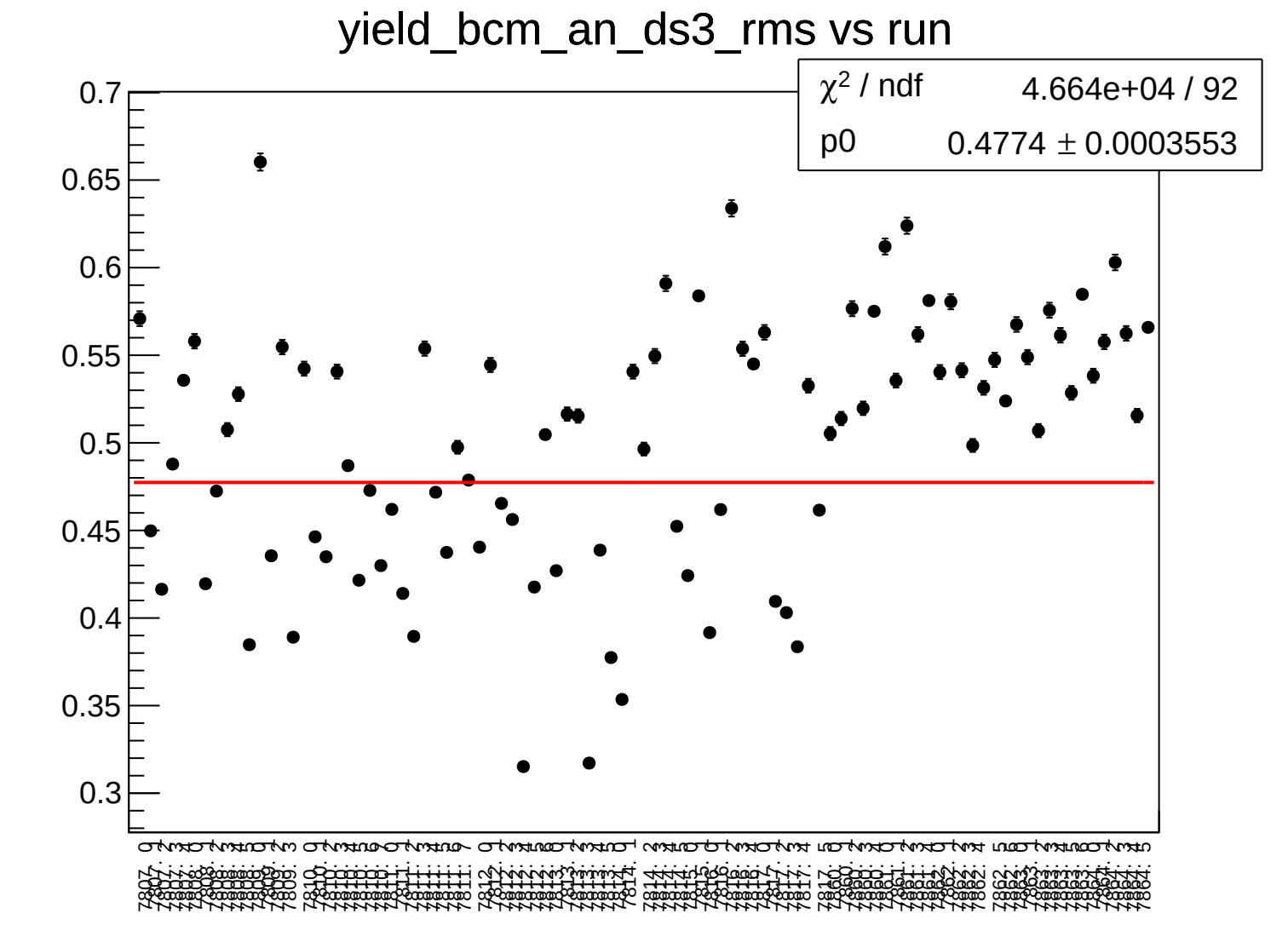

yield_bcm_an_ds_mean vs run
χ² / ndf 7.668e+05 / 92
p0 144.9 ± 0.0004991
145.6
145.4
145.2
145
144.8
144.6
144.4
144.2
144
143.8
pull
Entries 93
Mean 213.6
Std Dev 0
150
100
50
0
−50
−100
−150
−200

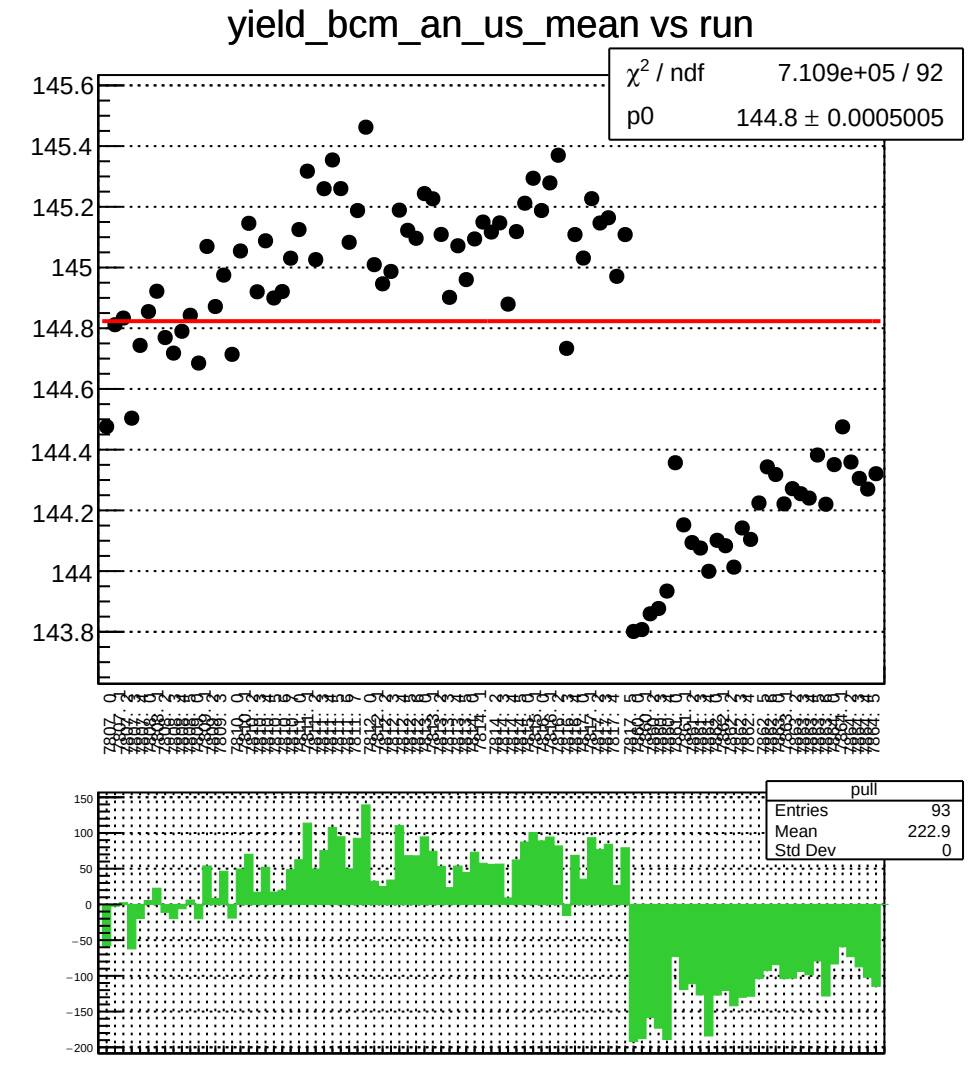

pull1D
Entries 93
Mean −7.393
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

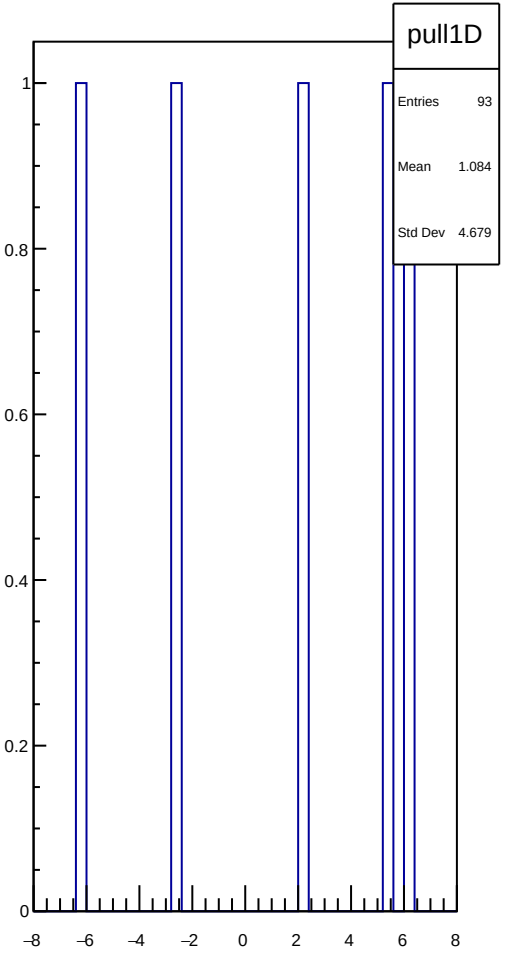

yield_bcm_an_ds_rms vs run
χ² / ndf 4.673e+04 / 92
p0 0.4741 ± 0.0003529
0.65
0.6
0.55
0.5
0.45
0.4
0.35
0.3

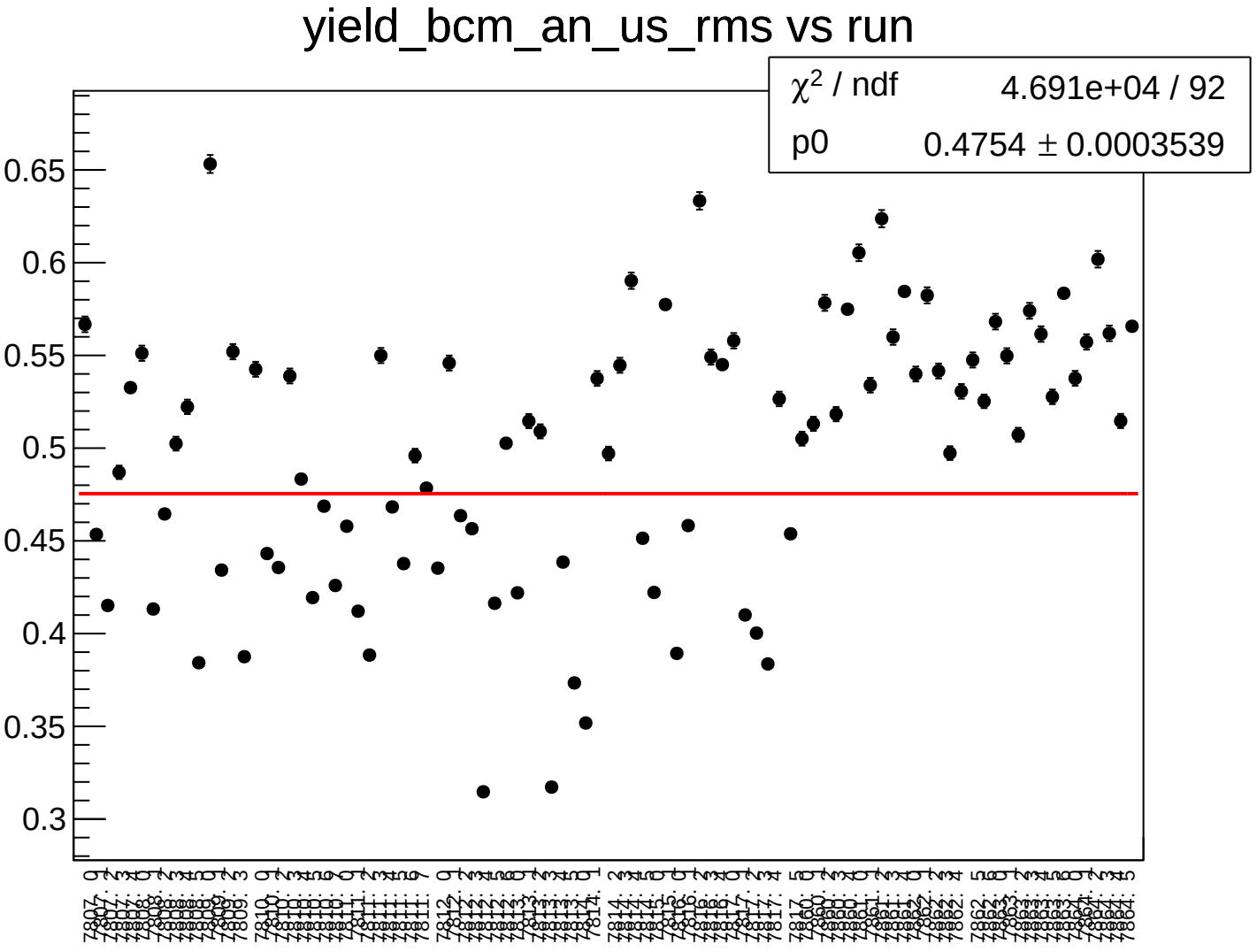

yield_bcm_an_ds3_mean vs run
χ² / ndf 7.698e+05 / 92
p0 145 ± 0.0005025
145.8
145.6
145.4
145.2
145
144.8
144.6
144.4
144.2
144
pull
Entries 93
Mean 218.1
Std Dev 0
150
100
50
0
−50
−100
−150
−200

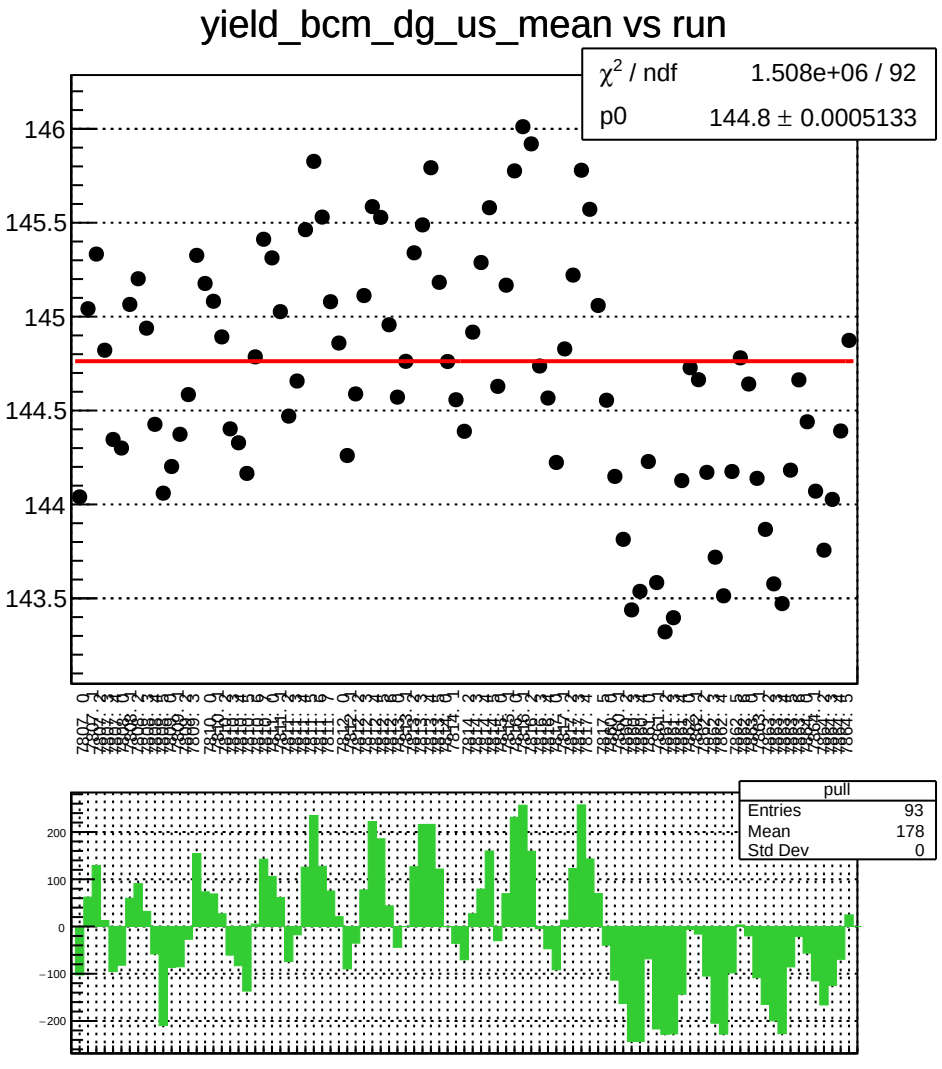

pull1D
Entries 93
Mean −5.456
Std Dev 0.5535
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

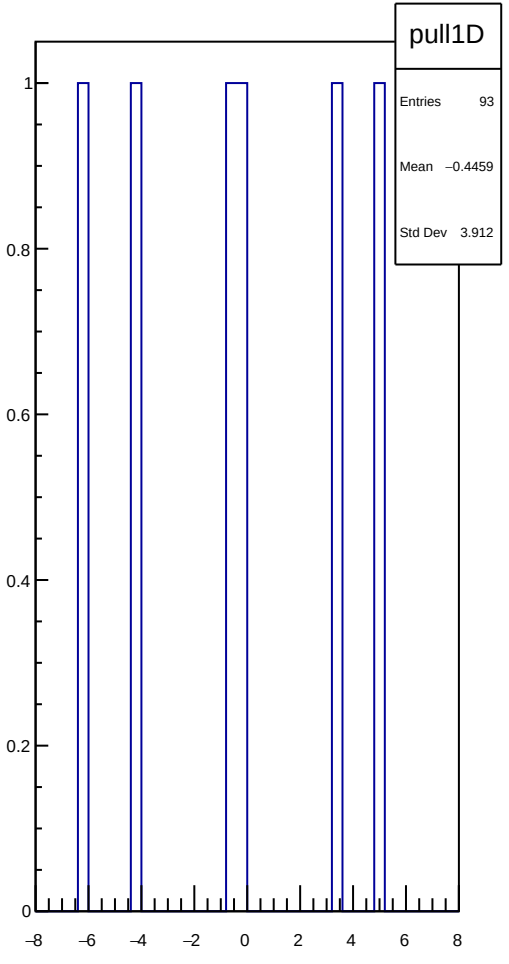

yield_bcm_an_ds3_rms vs run
χ² / ndf 4.664e+04 / 92
p0 0.4774 ± 0.0003553
0.7
0.65
0.6
0.55
0.5
0.45
0.4
0.35
0.3

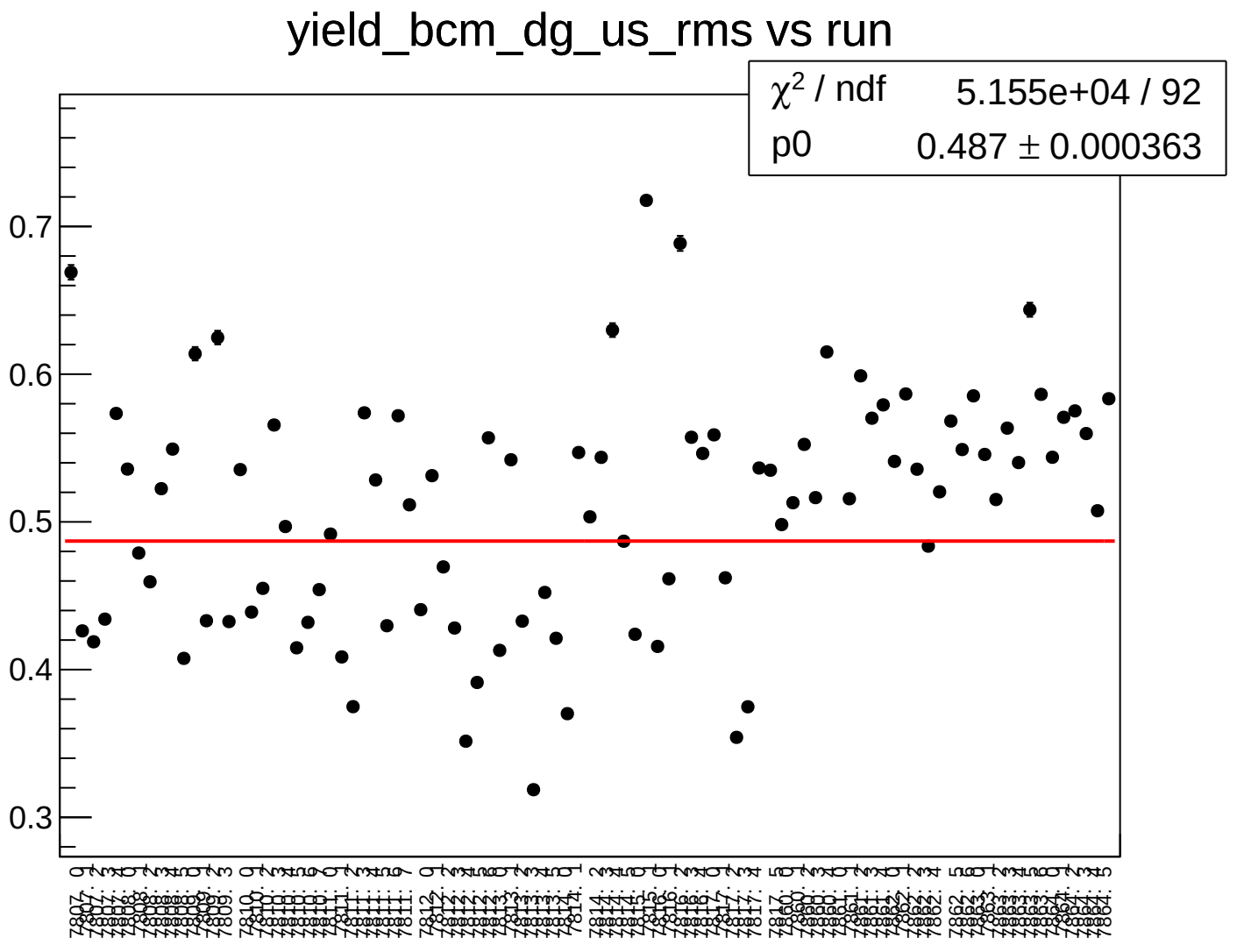

yield_bcm_an_us_mean vs run
χ² / ndf 7.109e+05 / 92
p0 144.8 ± 0.0005005
145.6
145.4
145.2
145
144.8
144.6
144.4
144.2
144
143.8
pull
Entries 93
Mean 222.9
Std Dev 0
150
100
50
0
−50
−100
−150
−200

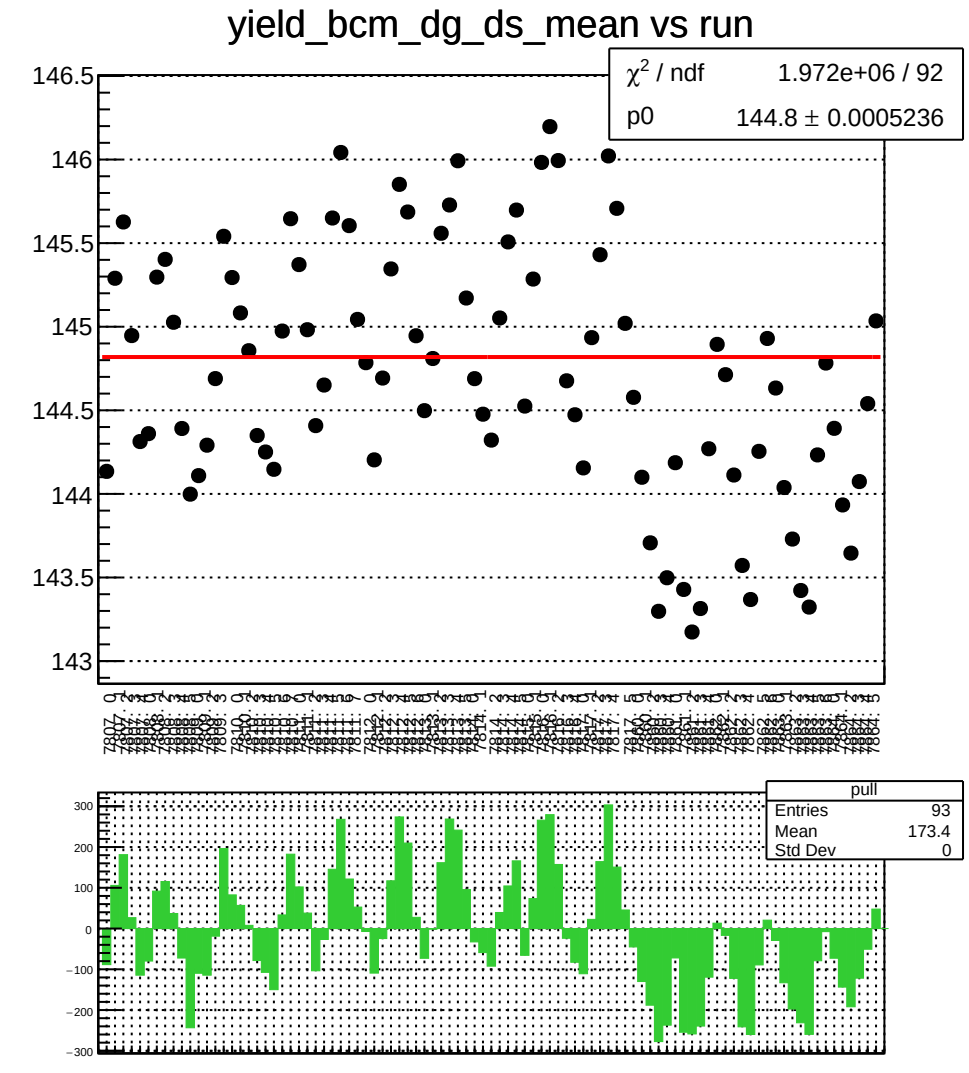

pull1D
Entries 93
Mean 1.084
Std Dev 4.679
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

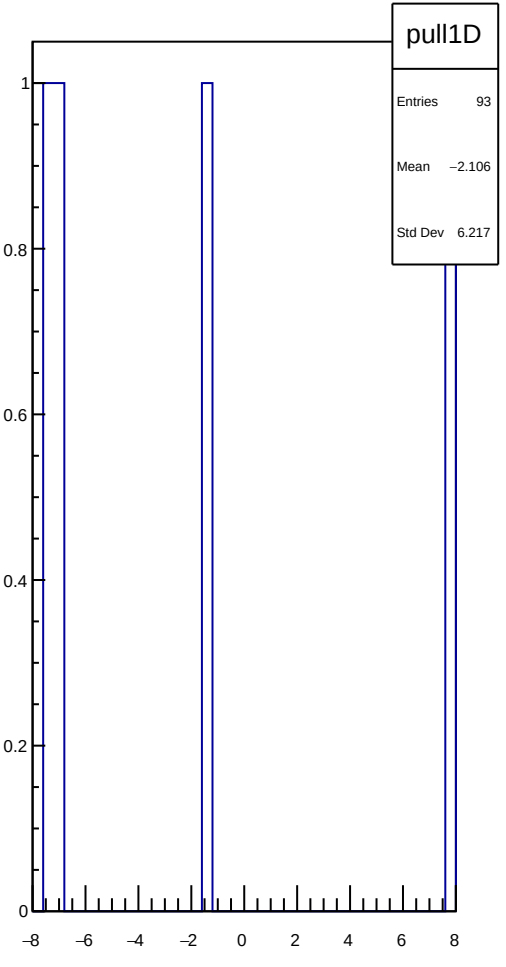

yield_bcm_an_us_rms vs run
χ² / ndf 4.691e+04 / 92
p0 0.4754 ± 0.0003539
0.65
0.6
0.55
0.5
0.45
0.4
0.35
0.3

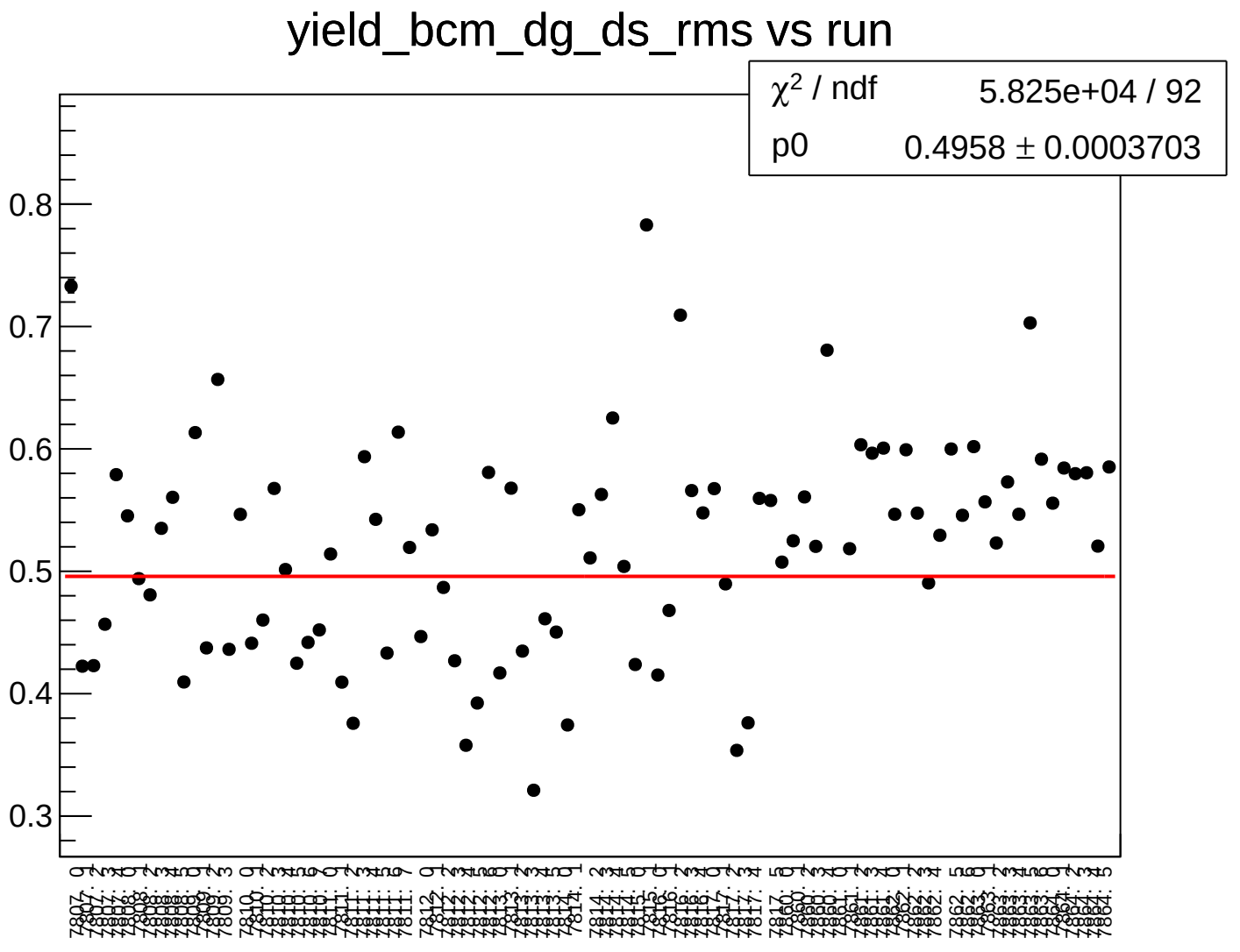

yield_bcm_dg_us_mean vs run
χ² / ndf 1.508e+06 / 92
p0 144.8 ± 0.0005133
146
145.5
145
144.5
144
143.5
pull
Entries 93
Mean 178
Std Dev 0
200
100
0
−100
−200

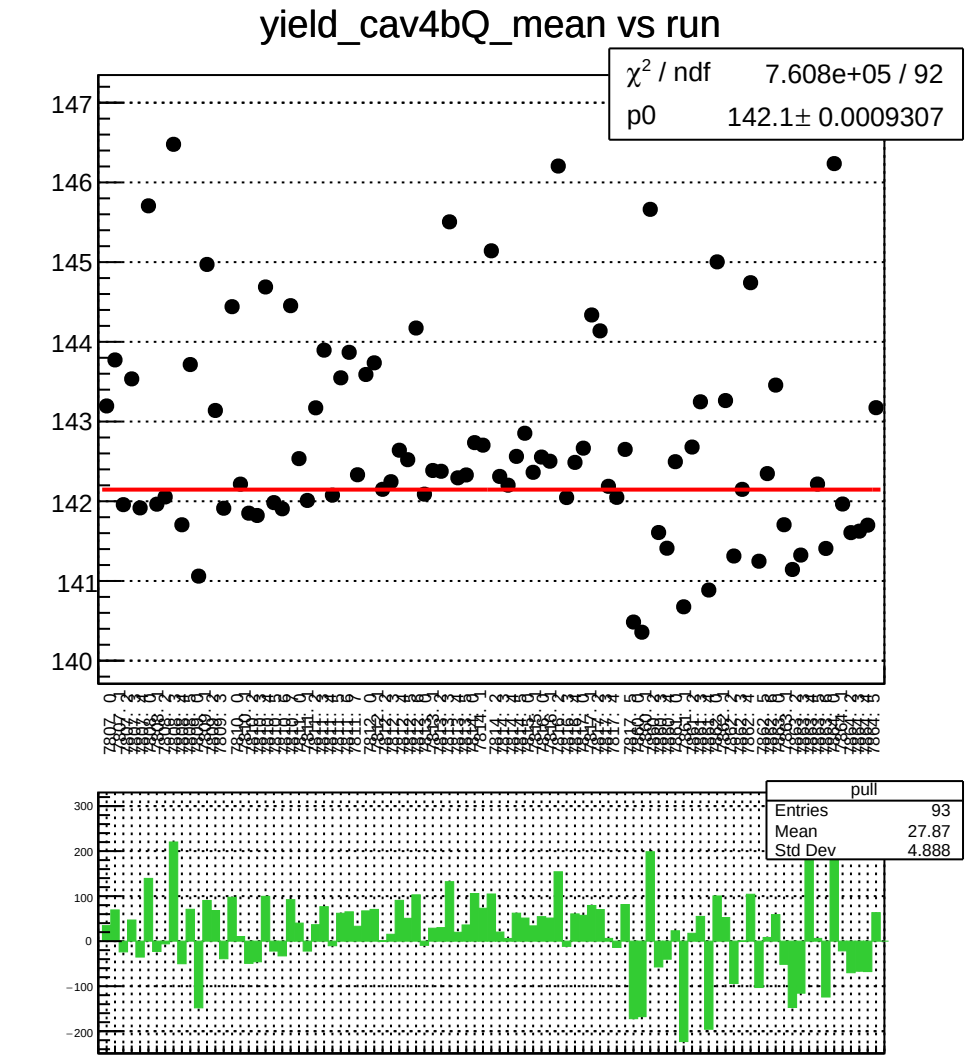

pull1D
Entries 93
Mean −0.4459
Std Dev 3.912
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

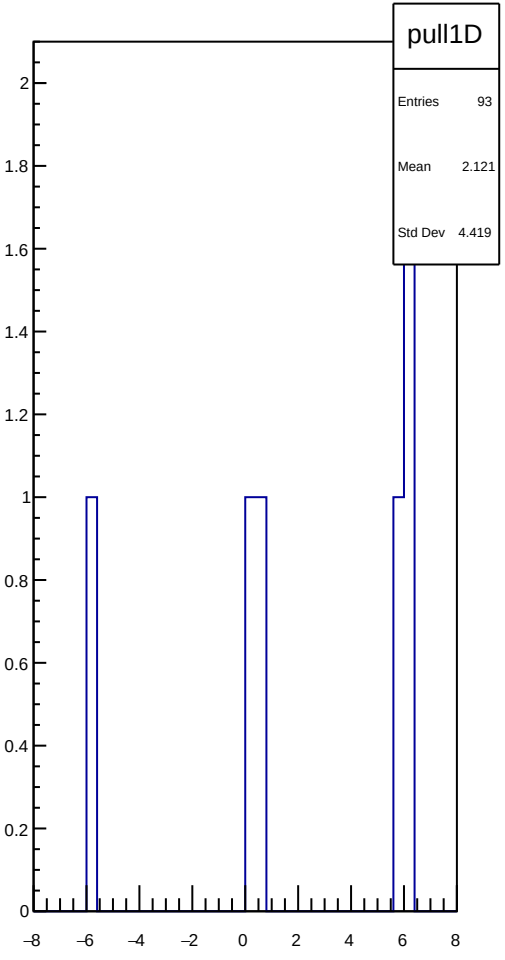

yield_bcm_dg_us_rms vs run
χ^2 / ndf 5.155e+04 / 92
p0 0.487 ± 0.000363
0.7
0.6
0.5
0.4
0.3

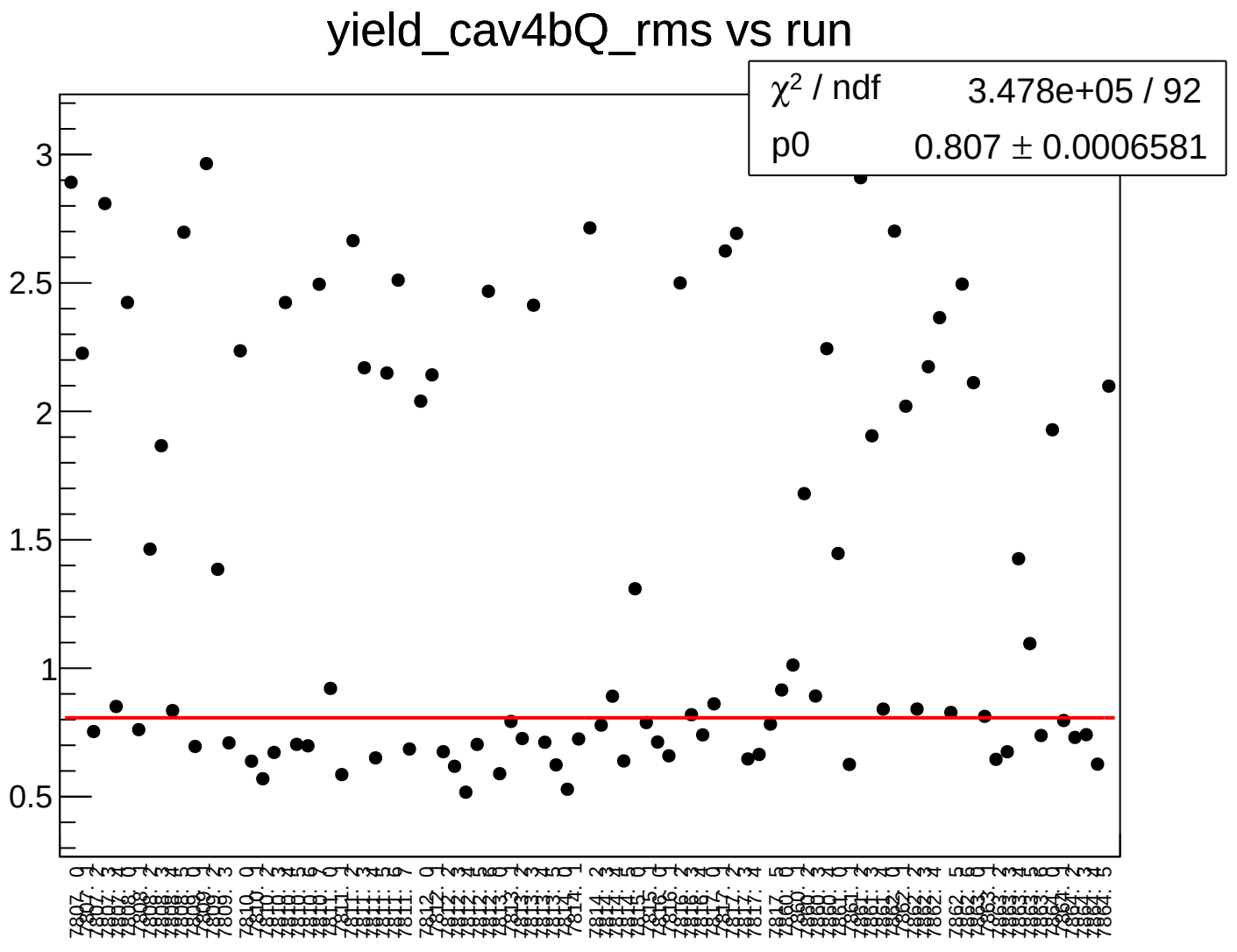

yield_bcm_dg_ds_mean vs run
χ² / ndf 1.972e+06 / 92
p0 144.8 ± 0.0005236
146.5
146
145.5
145
144.5
144
143.5
143
pull
Entries 93
Mean 173.4
Std Dev 0
300
200
100
0
−100
−200
−300

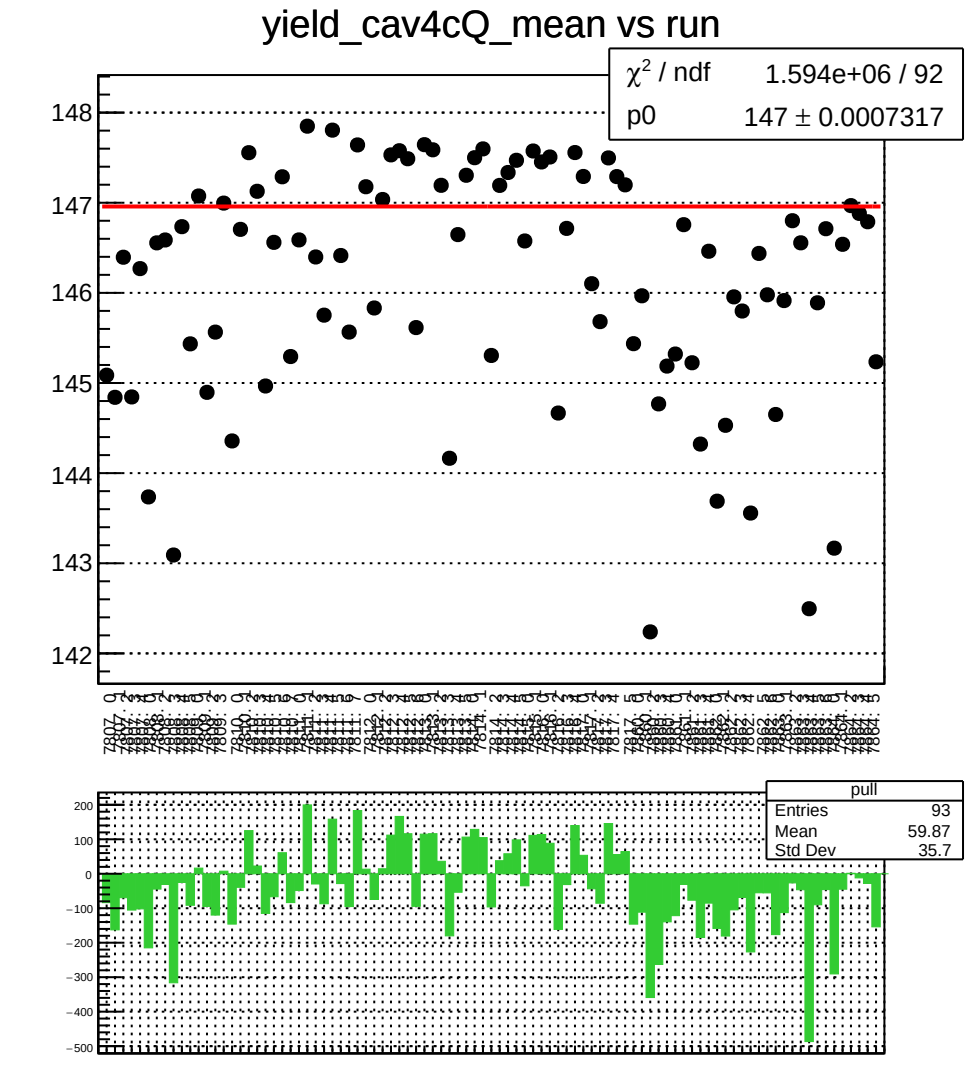

pull1D
Entries 93
Mean −2.106
Std Dev 6.217
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

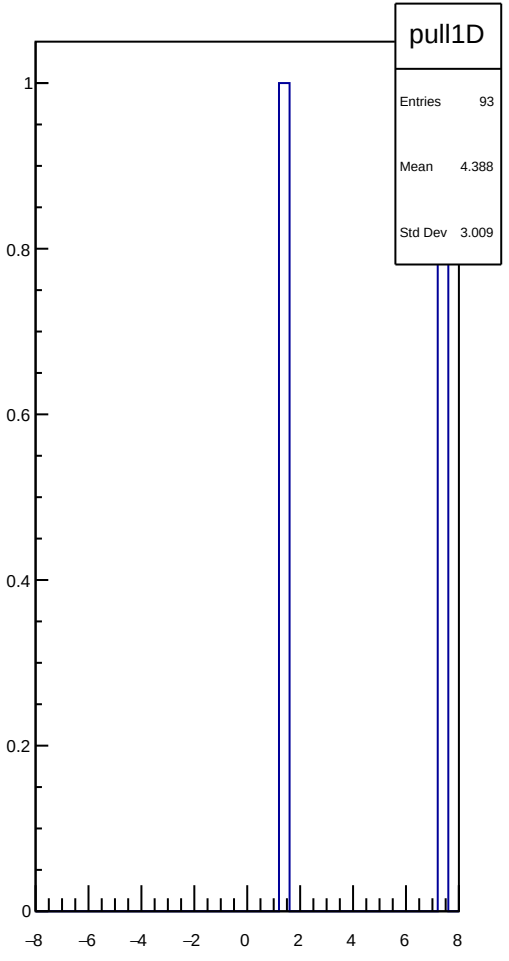

yield_bcm_dg_ds_rms vs run
χ² / ndf 5.825e+04 / 92
p0 0.4958 ± 0.0003703
0.8
0.7
0.6
0.5
0.4
0.3

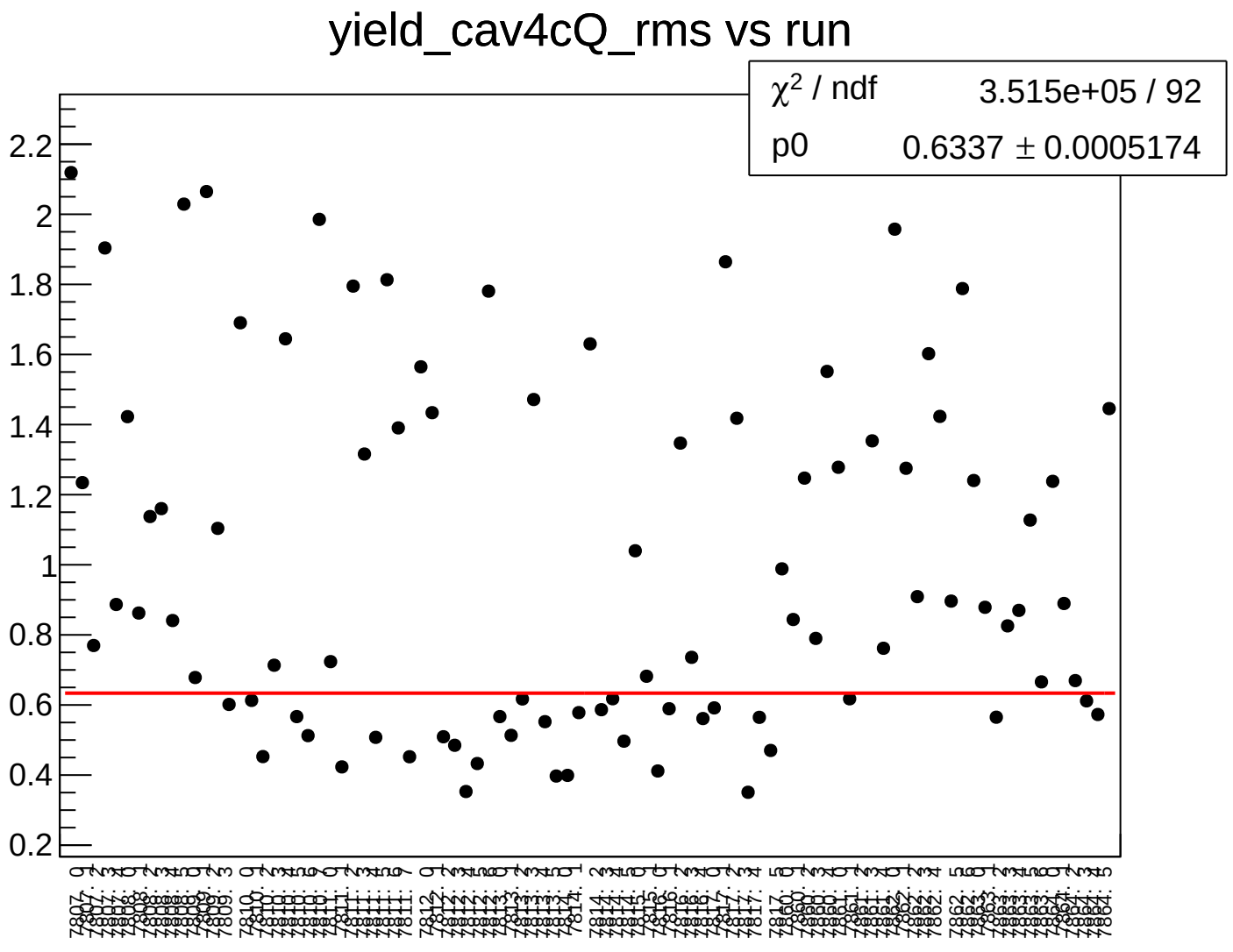

yield_cav4bQ_mean vs run
χ² / ndf 7.608e+05 / 92
p0 142.1± 0.0009307
147
146
145
144
143
142
141
140
pull
Entries 93
Mean 27.87
Std Dev 4.888
300
200
100
0
−100
−200

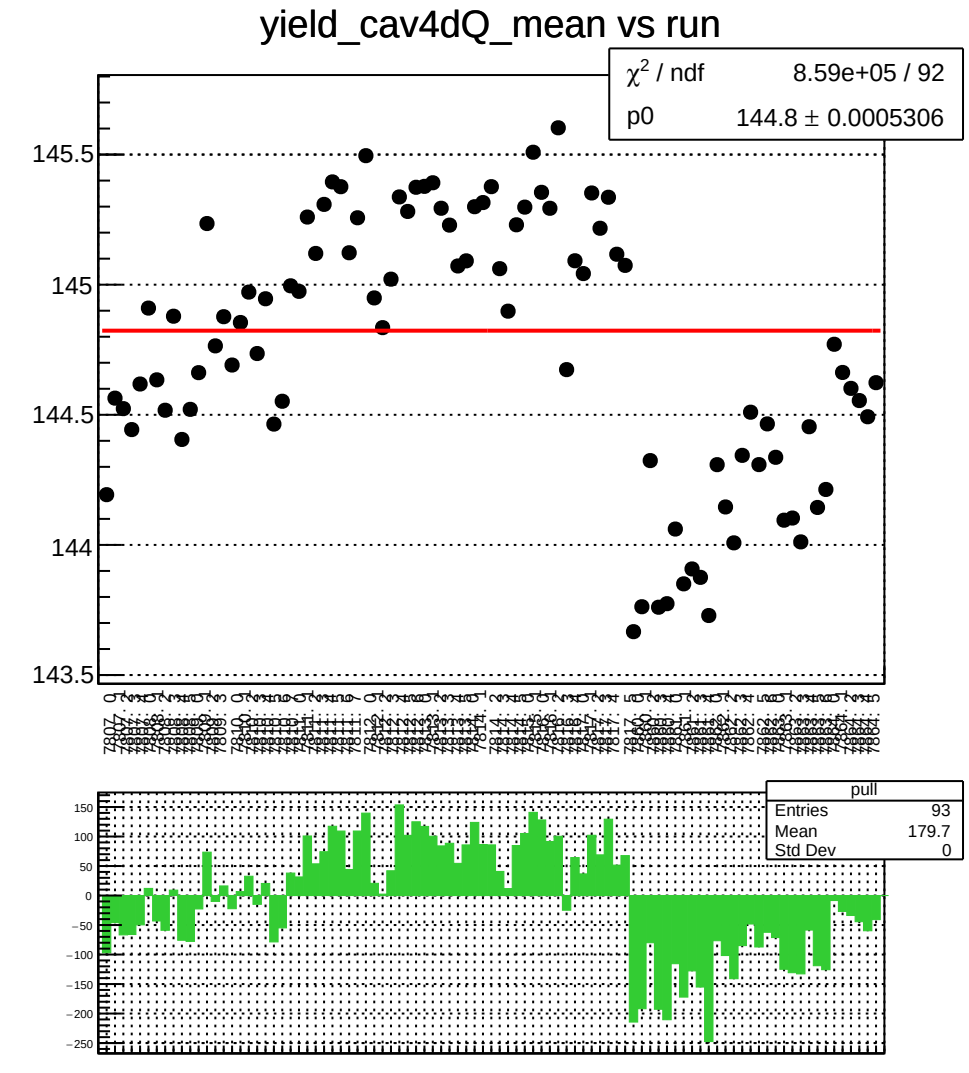

pull1D
Entries 93
Mean 2.121
Std Dev 4.419
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

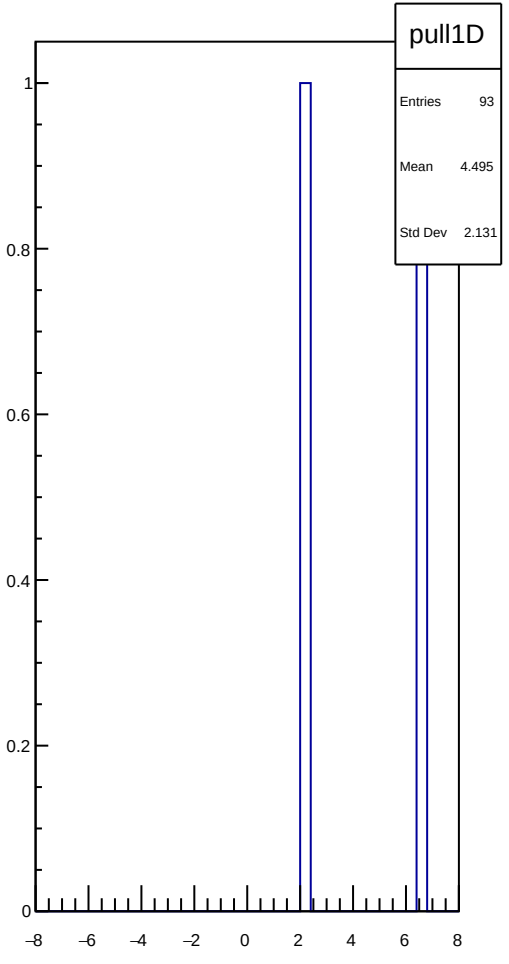

yield_cav4bQ_rms vs run
χ² / ndf 3.478e+05 / 92
p0 0.807 ± 0.0006581
3
2.5
2
1.5
1
0.5

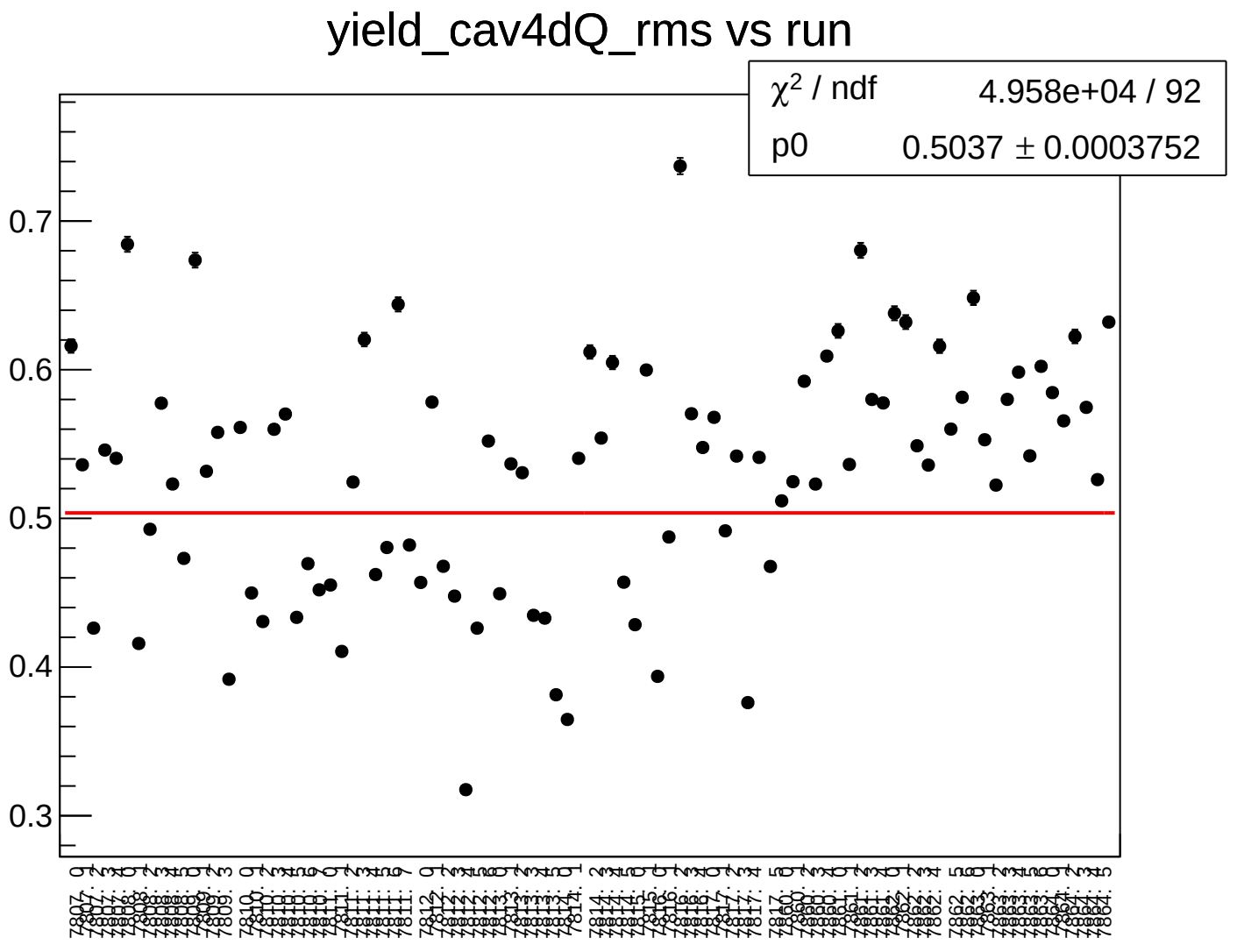

yield_cav4cQ_mean vs run
χ² / ndf 1.594e+06 / 92
p0 147 ± 0.0007317
148
147
146
145
144
143
142
pull
Entries 93
Mean 59.87
Std Dev 35.7
200
100
0
−100
−200
−300
−400
−500

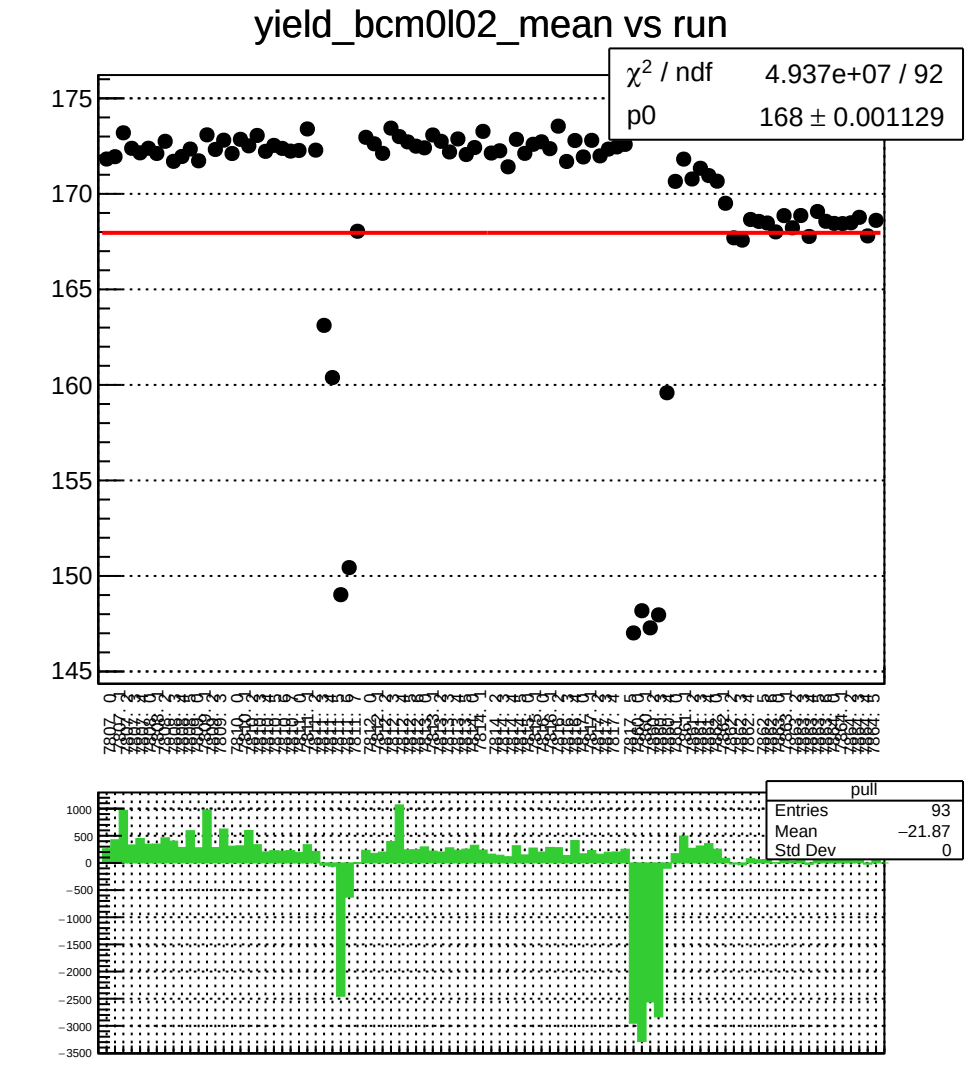

pull1D
Entries 93
Mean 4.388
Std Dev 3.009
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

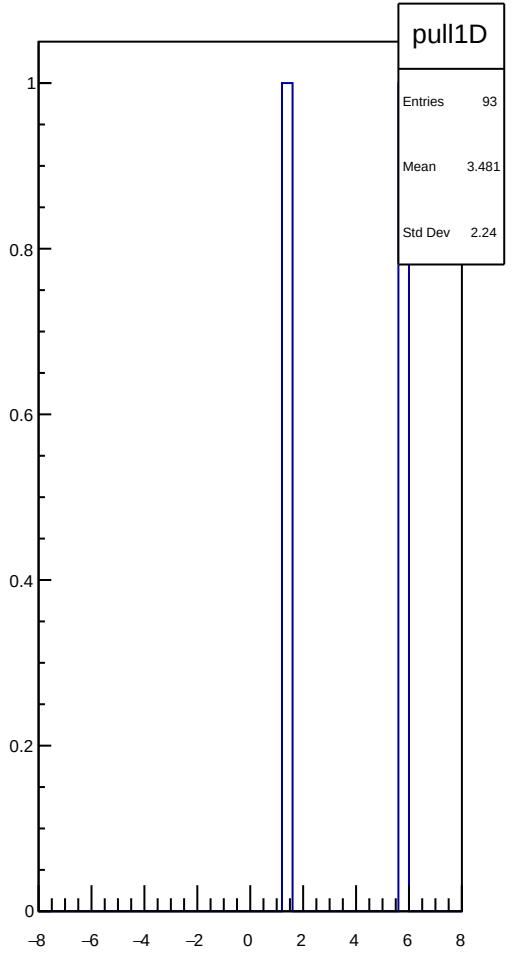

yield_cav4cQ_rms vs run
χ² / ndf 3.515e+05 / 92
p0 0.6337 ± 0.0005174
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

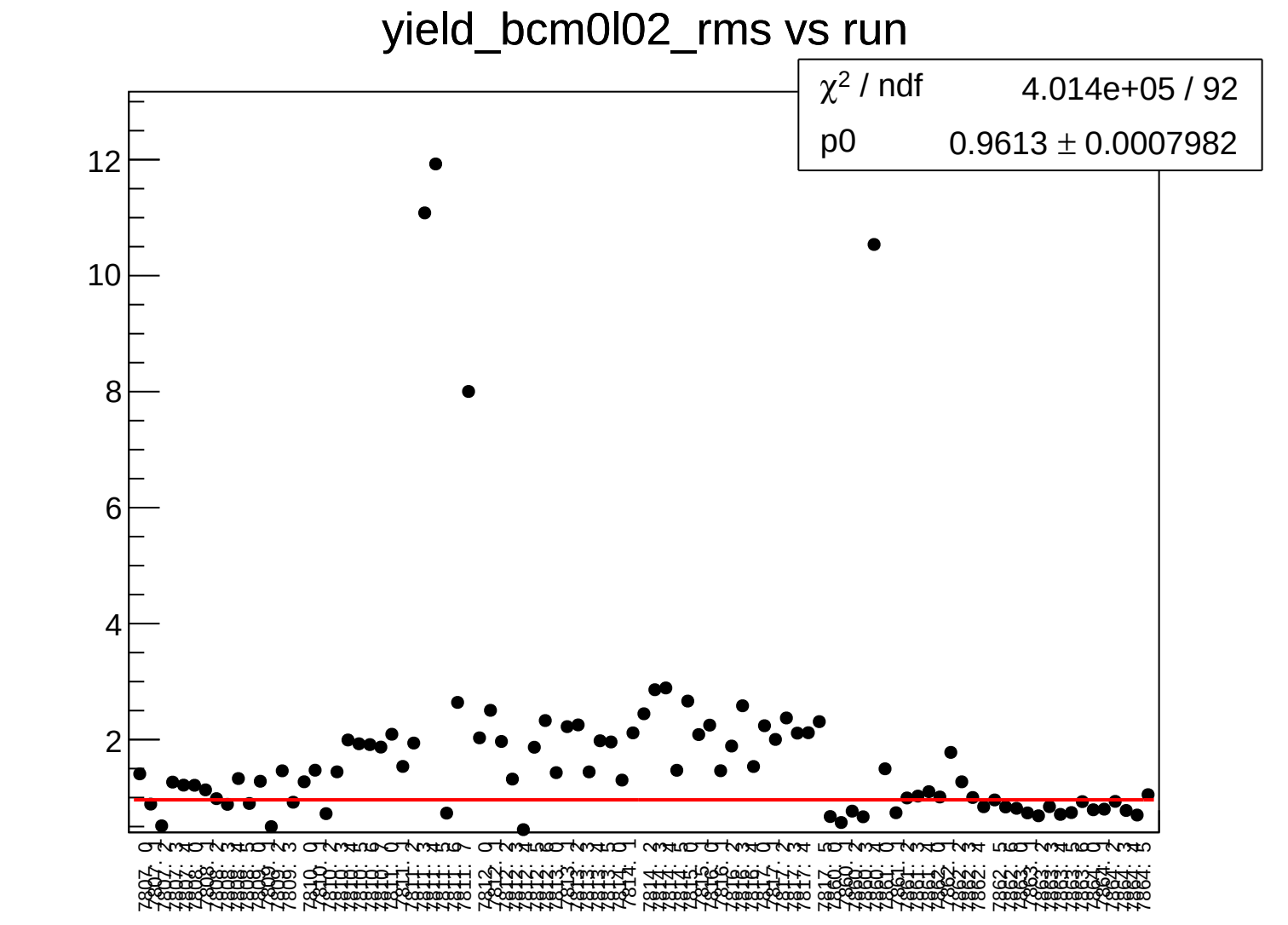

yield_cav4dQ_mean vs run
χ² / ndf 8.59e+05 / 92
p0 144.8 ± 0.0005306
145.5
145
144.5
144
143.5
pull
Entries 93
Mean 179.7
Std Dev 0
150
100
50
0
−50
−100
−150
−200
−250

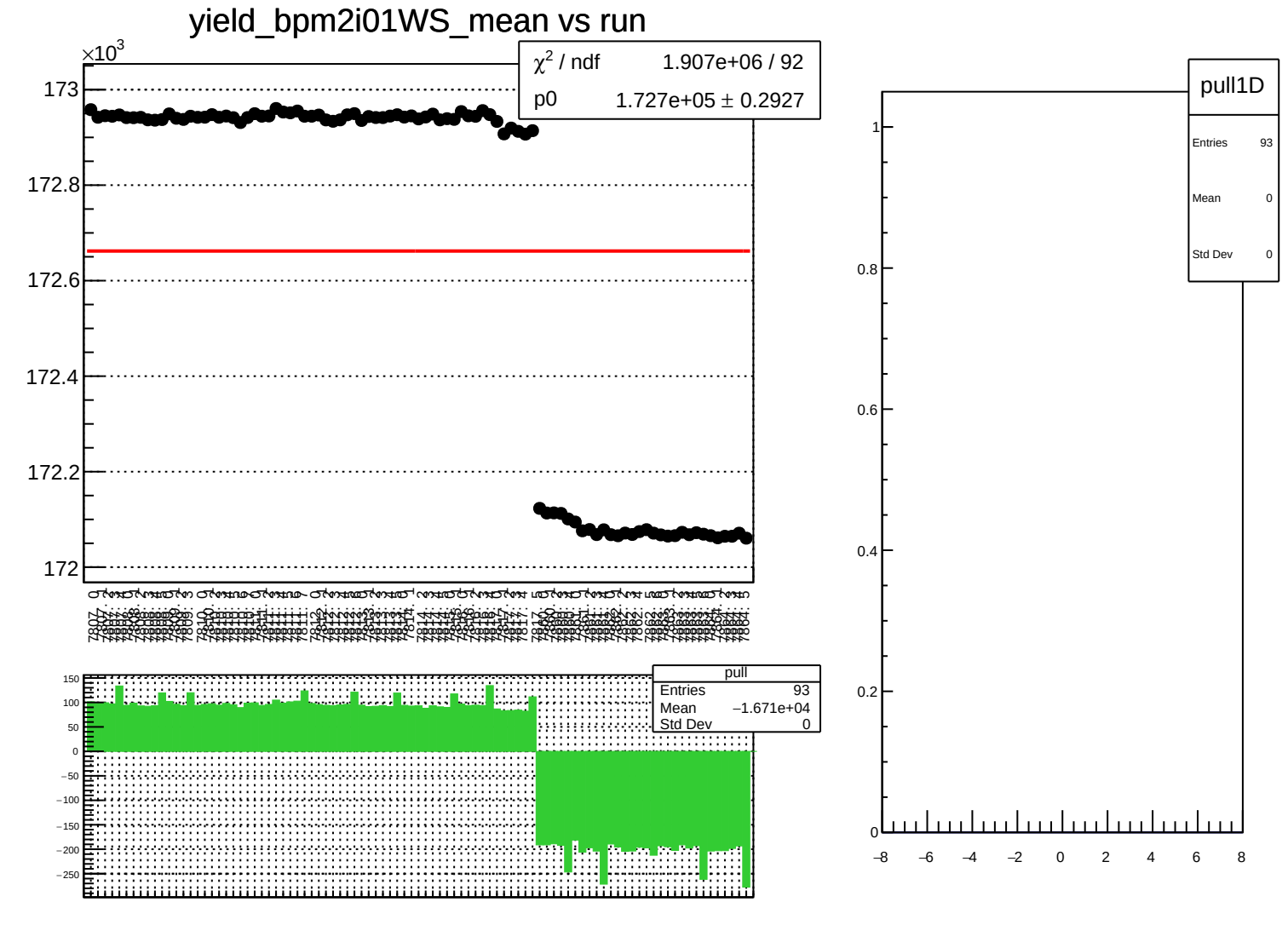

pull1D
Entries 93
Mean 4.495
Std Dev 2.131
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

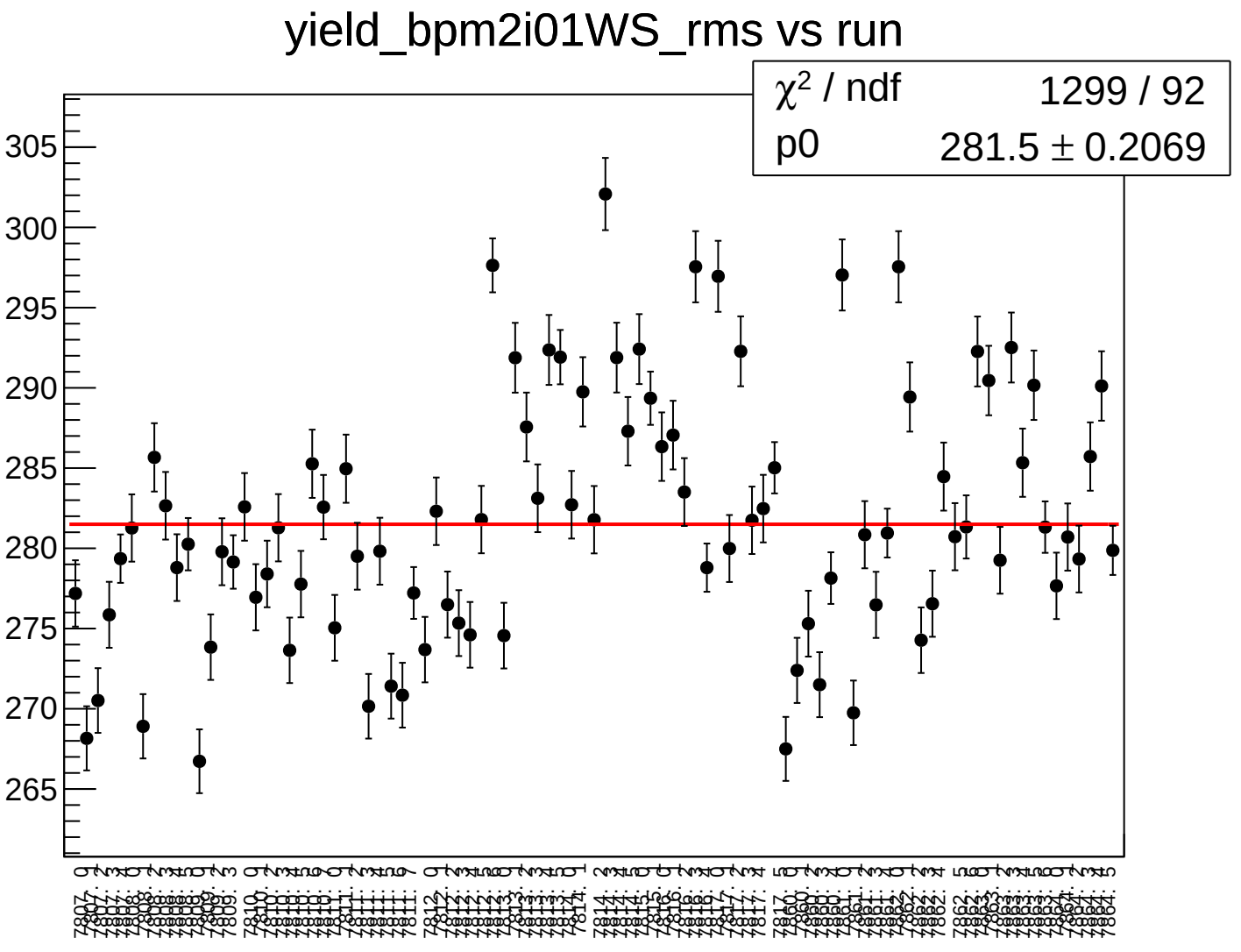

yield_cav4dQ_rms vs run
χ² / ndf 4.958e+04 / 92
p0 0.5037 ± 0.0003752
0.7
0.6
0.5
0.4
0.3

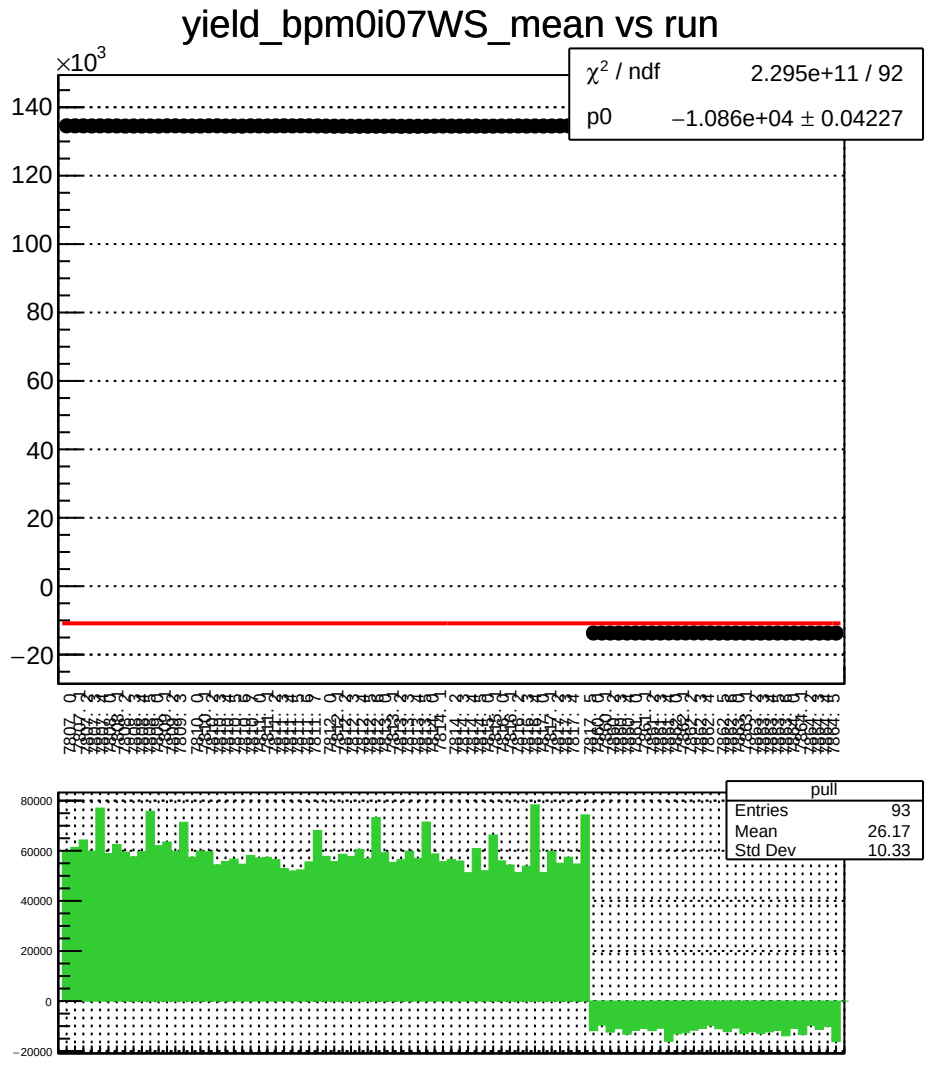

yield_bcm0l02_mean vs run
χ² / ndf 4.937e+07 / 92
p0 168 ± 0.001129
175
170
165
160
155
150
145
pull
Entries 93
Mean −21.87
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000
−2500
−3000
−3500

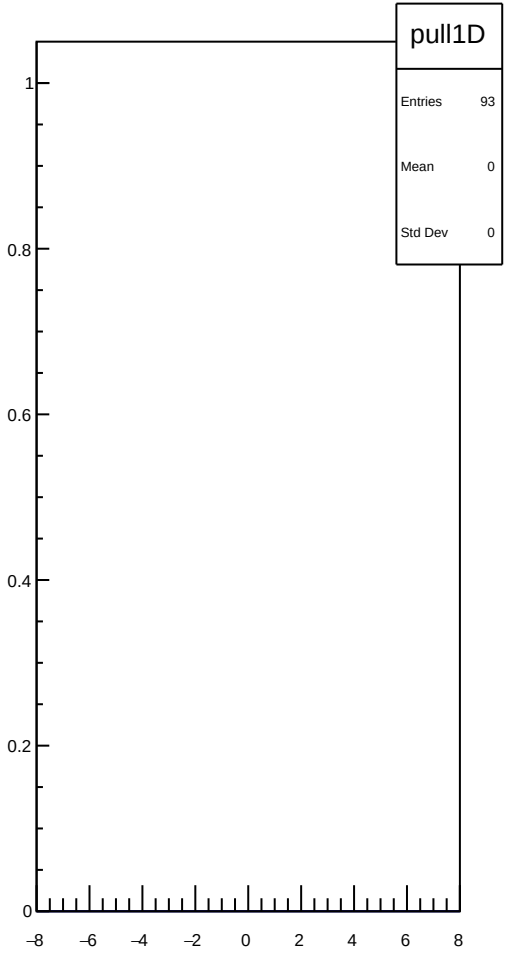

pull1D
Entries 93
Mean 3.481
Std Dev 2.24
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

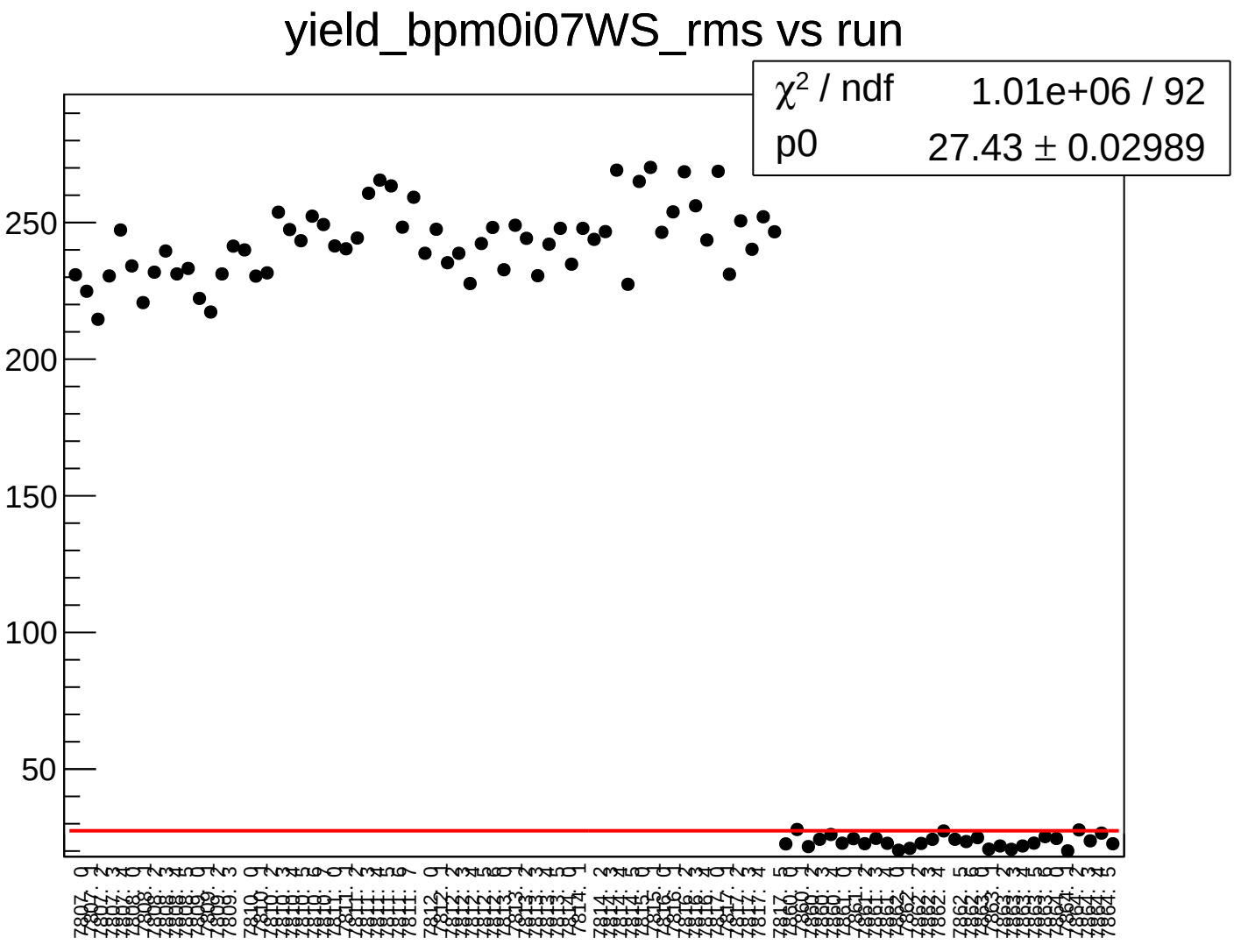

yield_bcm0l02_rms vs run
χ² / ndf 4.014e+05 / 92
p0 0.9613 ± 0.0007982
12
10
8
6
4
2

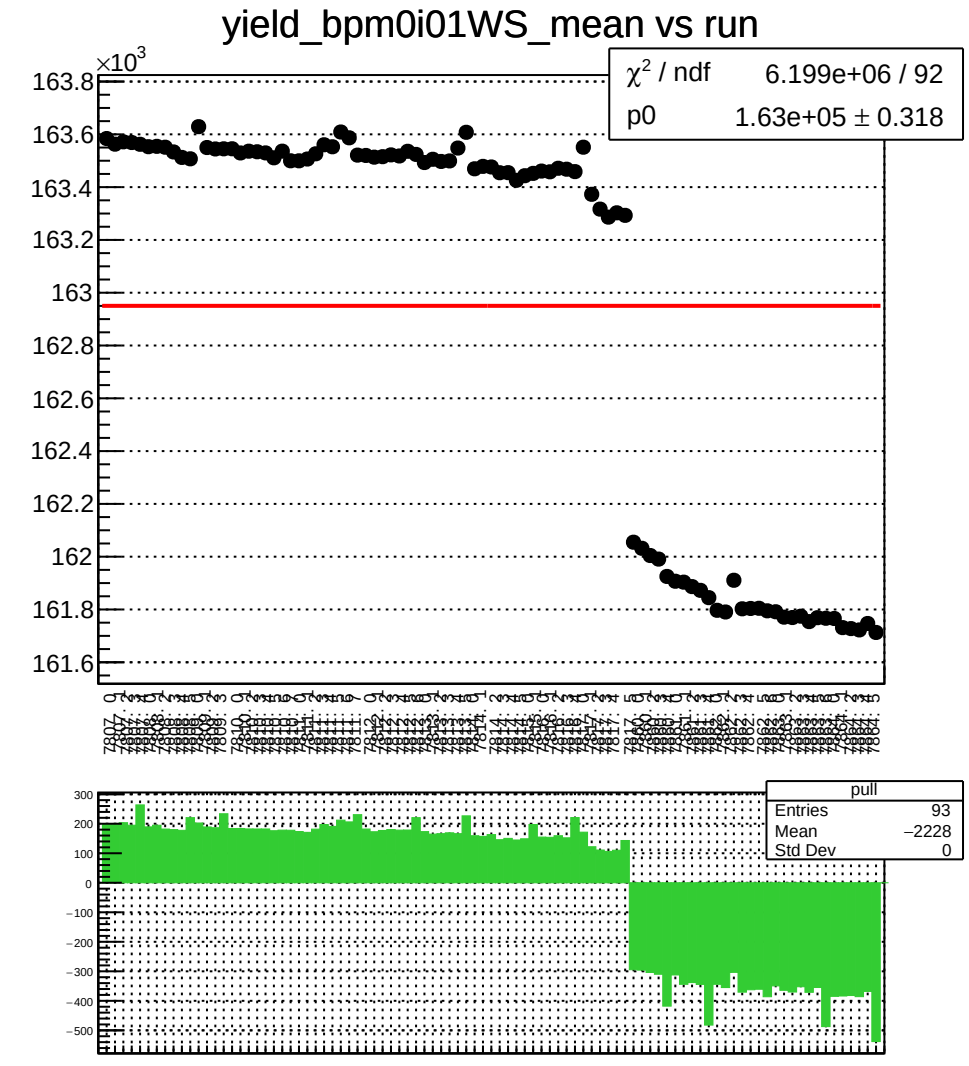

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 1.907e+06 / 92
p0 1.727e+05 ± 0.2927
173
172.8
172.6
172.4
172.2
172
pull
Entries 93
Mean −1.671e+04
Std Dev 0
150
100
50
0
−50
−100
−150
−200
−250
pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

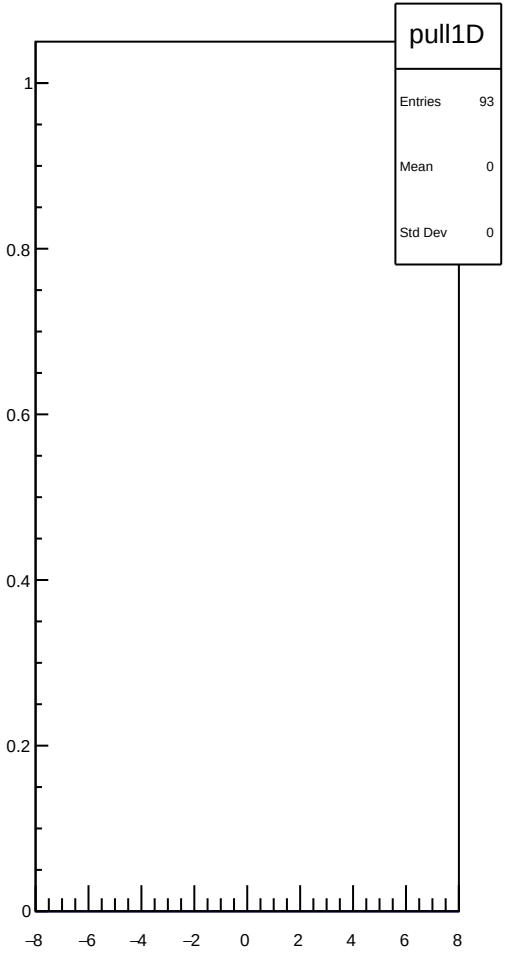

yield_bpm2i01WS_rms vs run
χ² / ndf 1299 / 92
p0 281.5 ± 0.2069
305
300
295
290
285
280
275
270
265

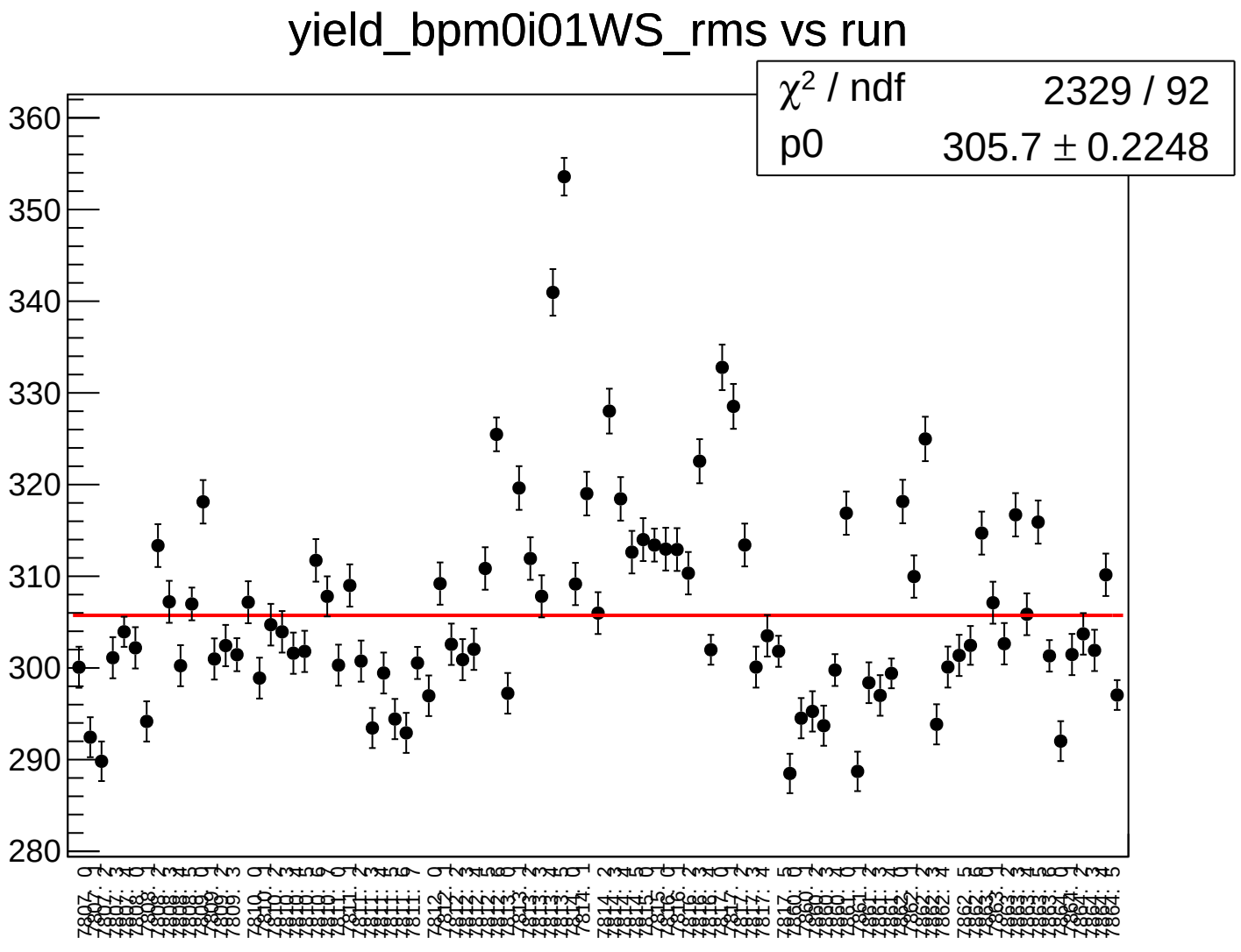

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 2.295e+11 / 92
p0 −1.086e+04 ± 0.04227
pull
Entries 93
Mean 26.17
Std Dev 10.33

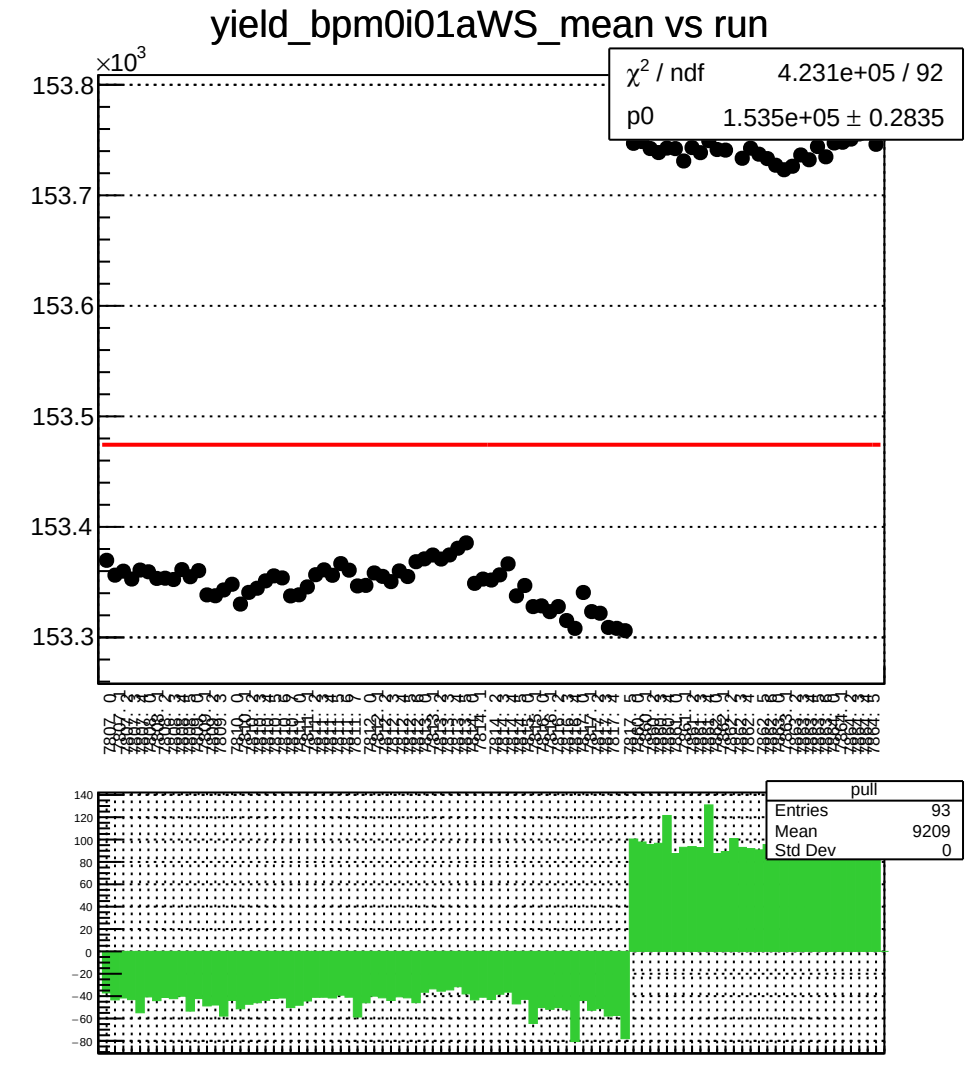

pull1D
Entries 93
Mean 0
Std Dev 0

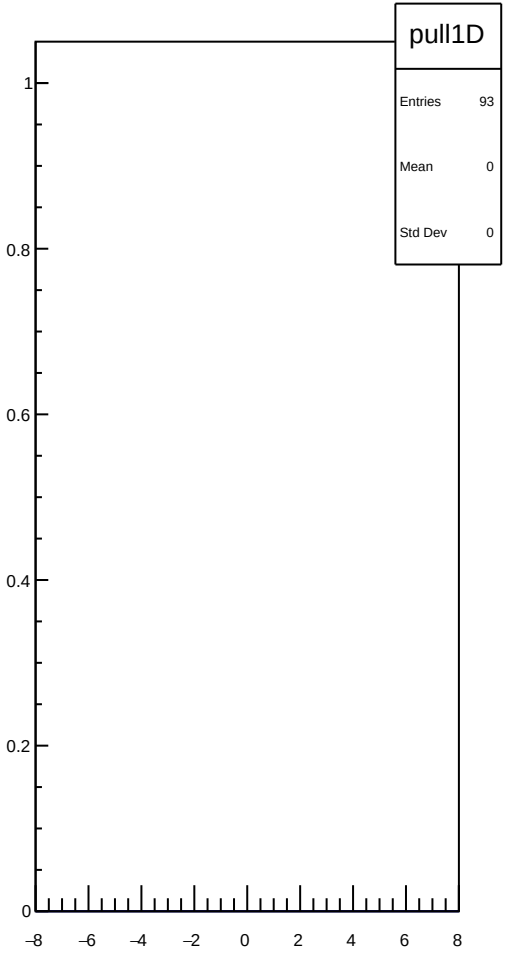

yield_bpm0i07WS_rms vs run
χ² / ndf 1.01e+06 / 92
p0 27.43 ± 0.02989
250
200
150
100
50

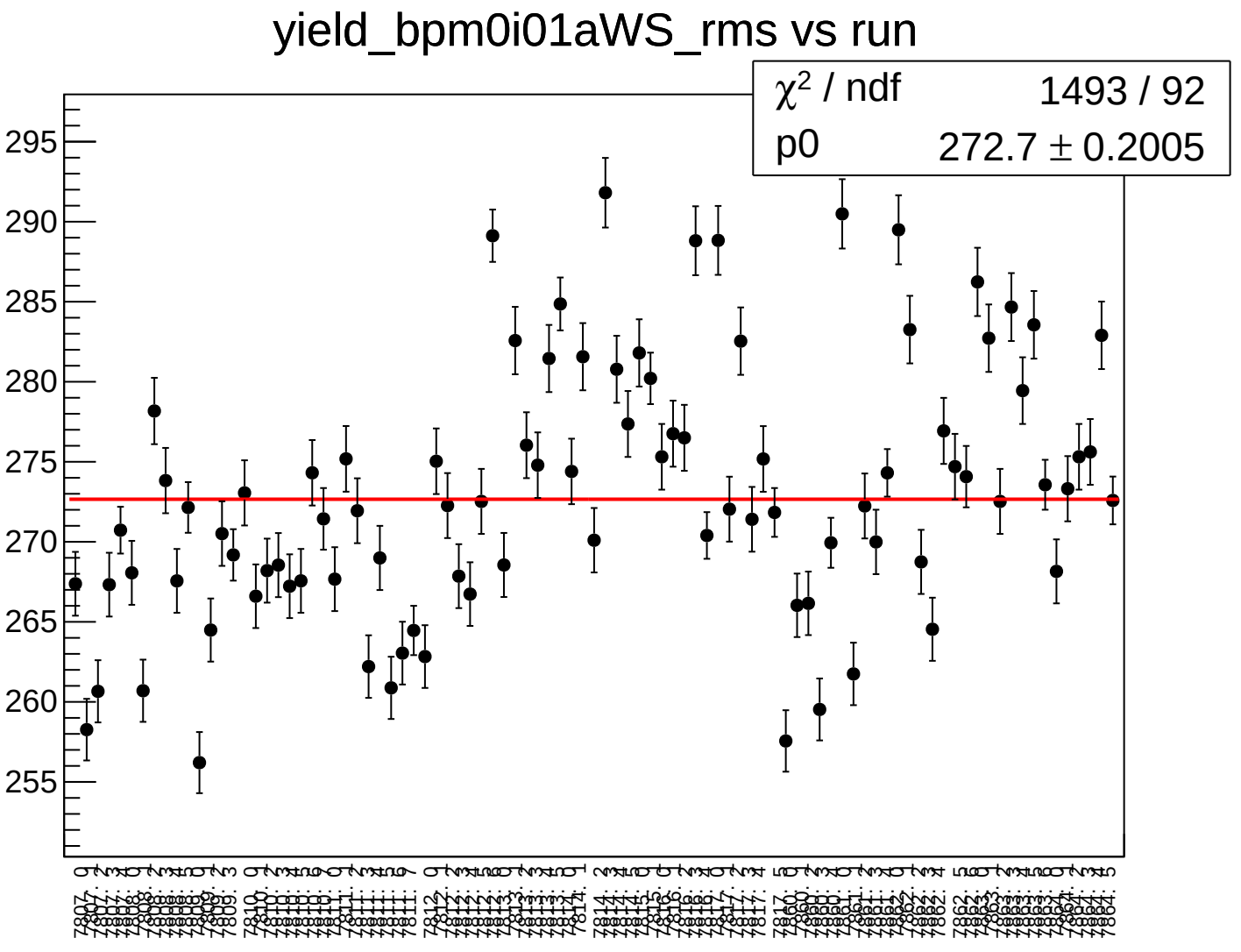

yield_bpm0i01WS_mean vs run
×10^3
χ² / ndf 6.199e+06 / 92
p0 1.63e+05 ± 0.318
163.8
163.6
163.4
163.2
163
162.8
162.6
162.4
162.2
162
161.8
161.6
pull
Entries 93
Mean −2228
Std Dev 0
300
200
100
0
−100
−200
−300
−400
−500

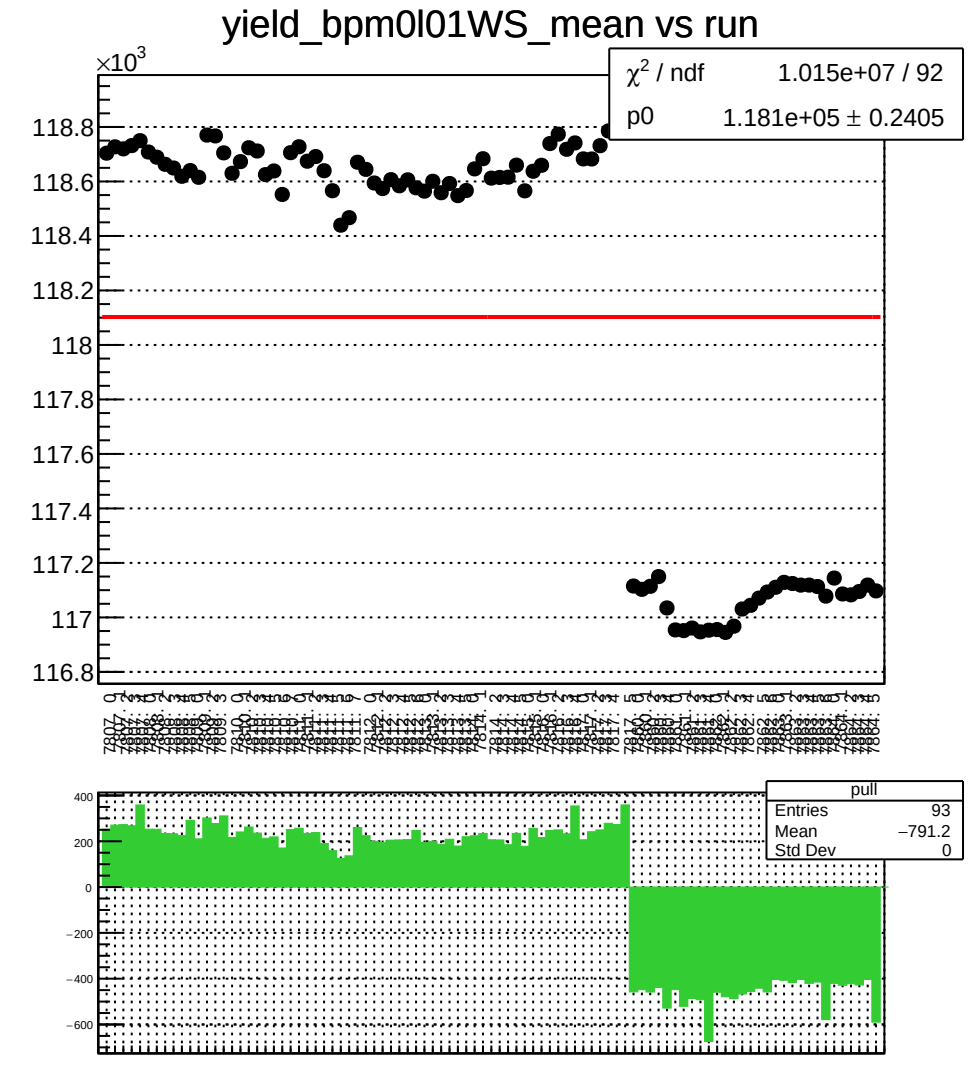

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

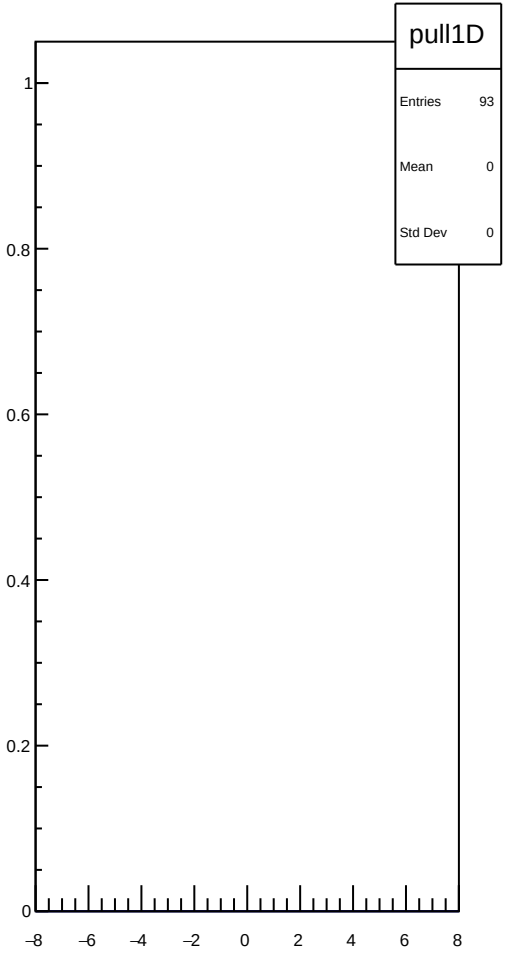

yield_bpm0i01WS_rms vs run
χ² / ndf 2329 / 92
p0 305.7 ± 0.2248
360
350
340
330
320
310
300
290
280

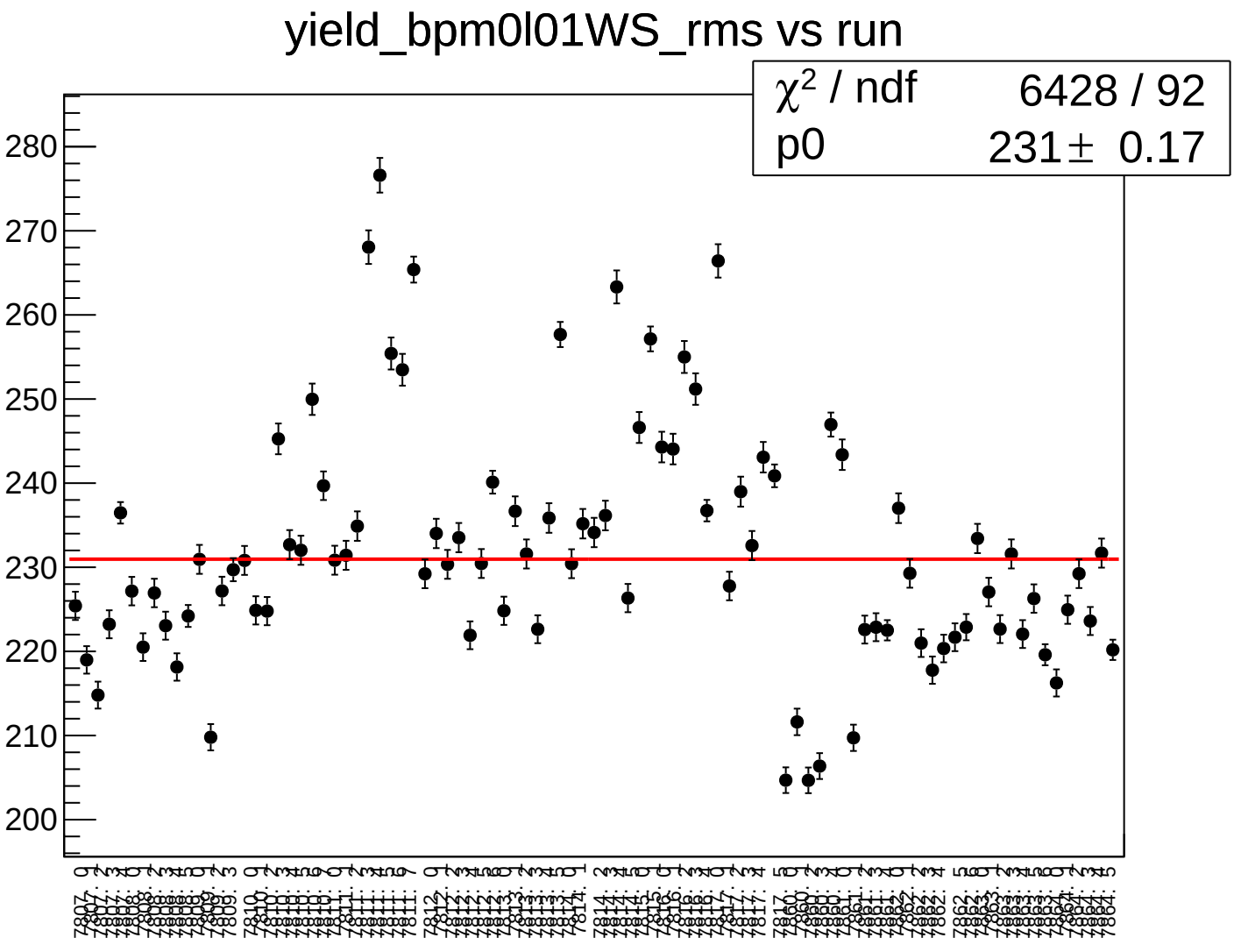

yield_bpm0i01aWS_mean vs run
×10^3
153.8
153.7
153.6
153.5
153.4
153.3
χ² / ndf 4.231e+05 / 92
p0 1.535e+05 ± 0.2835
pull
Entries 93
Mean 9209
Std Dev 0
140
120
100
80
60
40
20
0
−20
−40
−60
−80

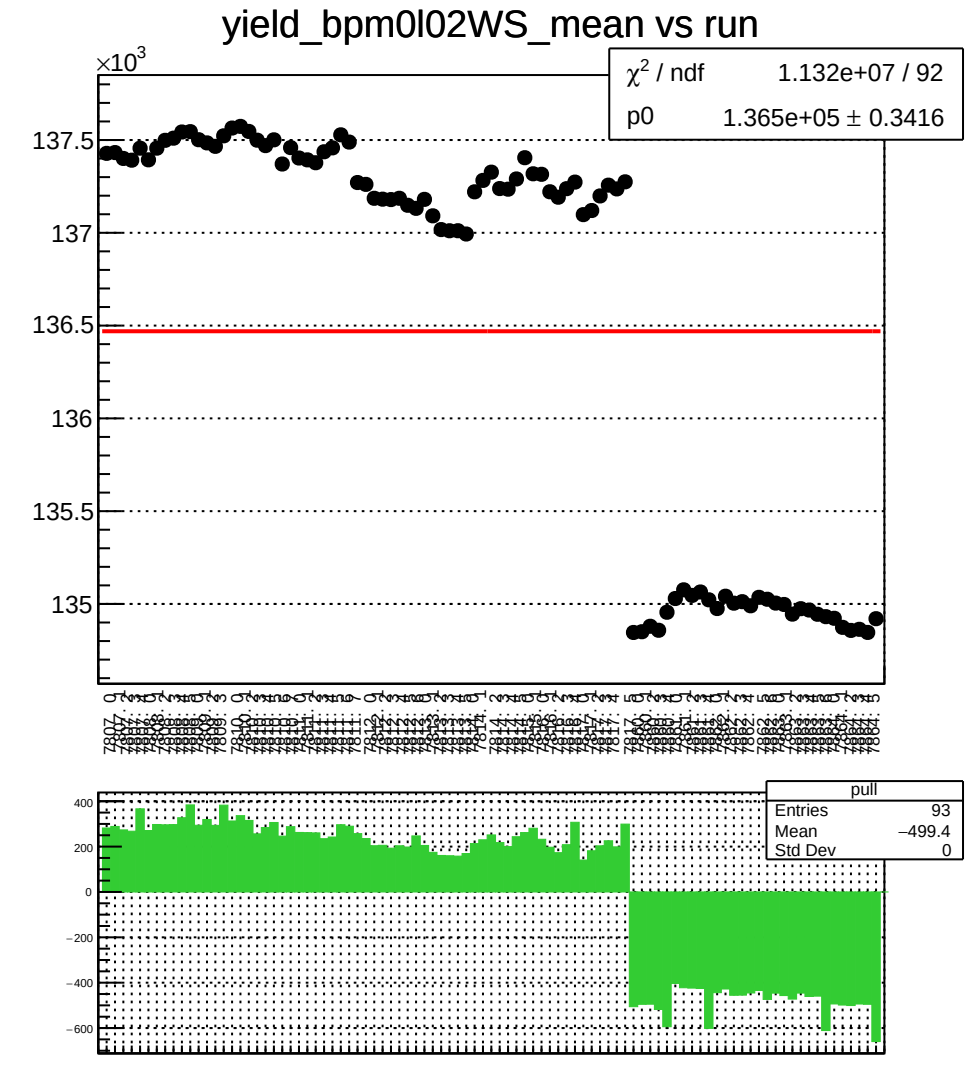

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

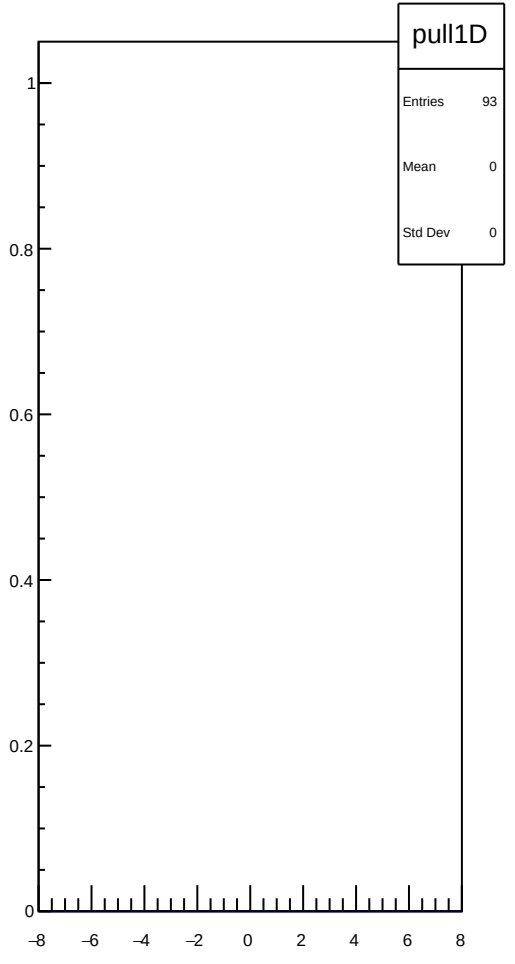

yield_bpm0i01aWS_rms vs run
χ² / ndf 1493 / 92
p0 272.7 ± 0.2005
295
290
285
280
275
270
265
260
255

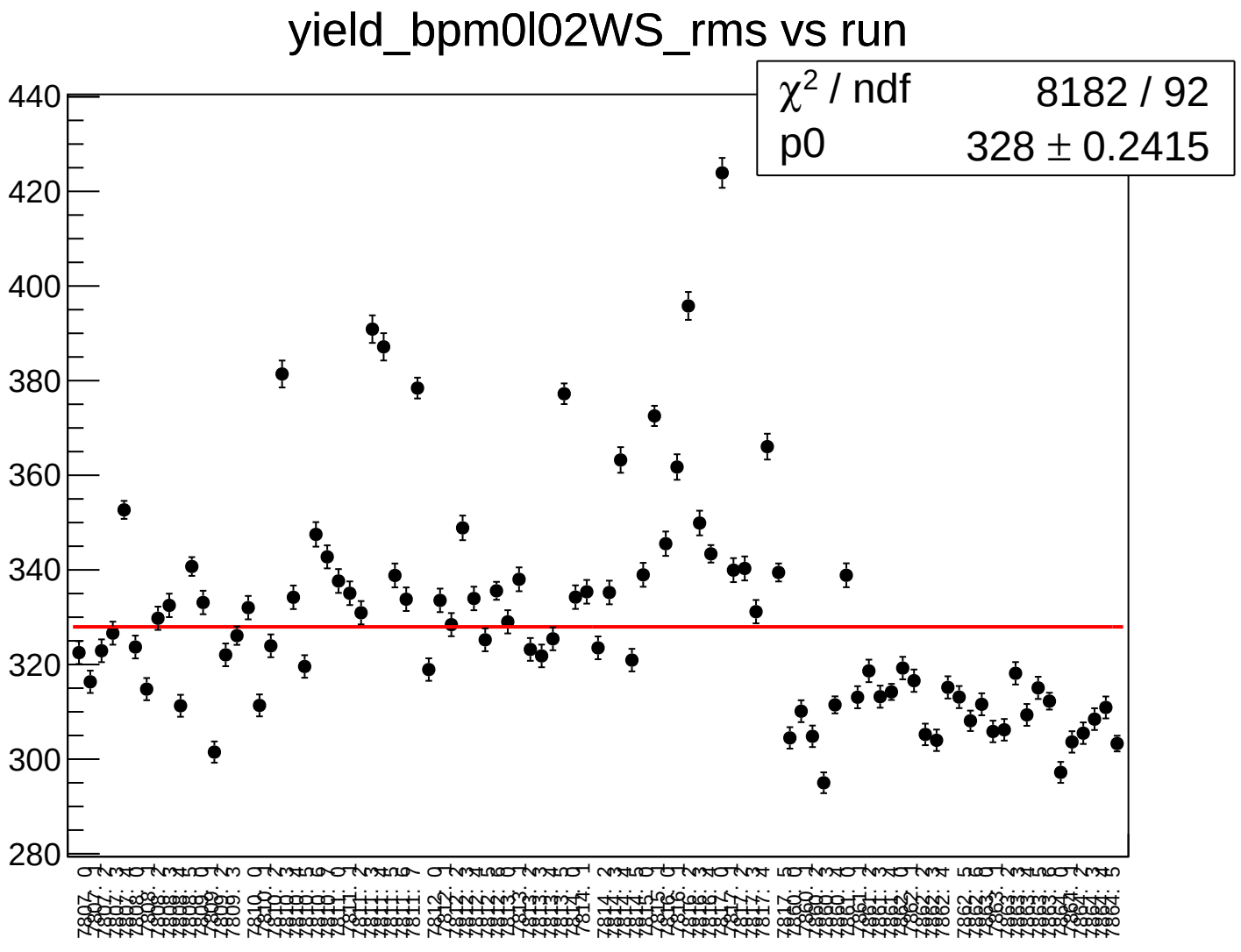

yield_bpm0l01WS_mean vs run
×10^3
χ^2 / ndf 1.015e+07 / 92
p0 1.181e+05 ± 0.2405
118.8
118.6
118.4
118.2
118
117.8
117.6
117.4
117.2
117
116.8
pull
Entries 93
Mean −791.2
Std Dev 0
400
200
0
−200
−400
−600

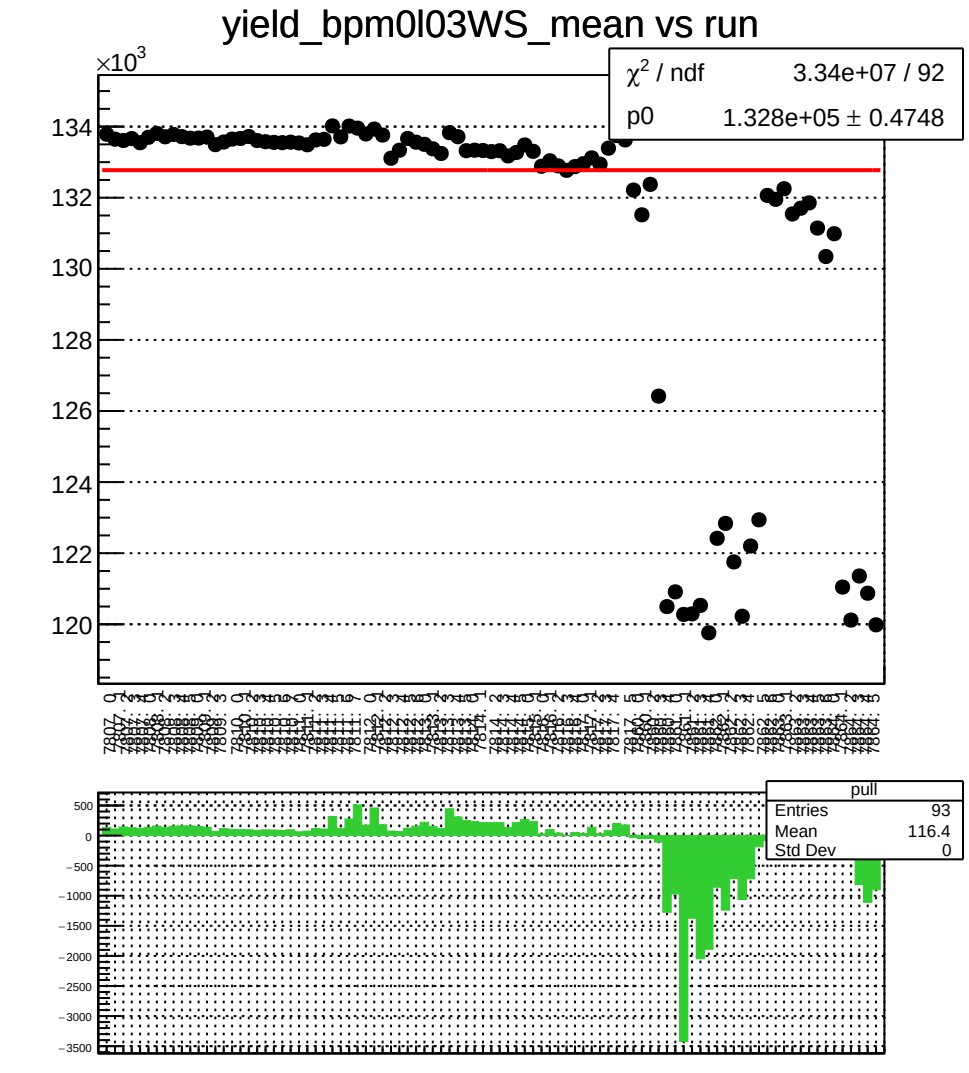

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

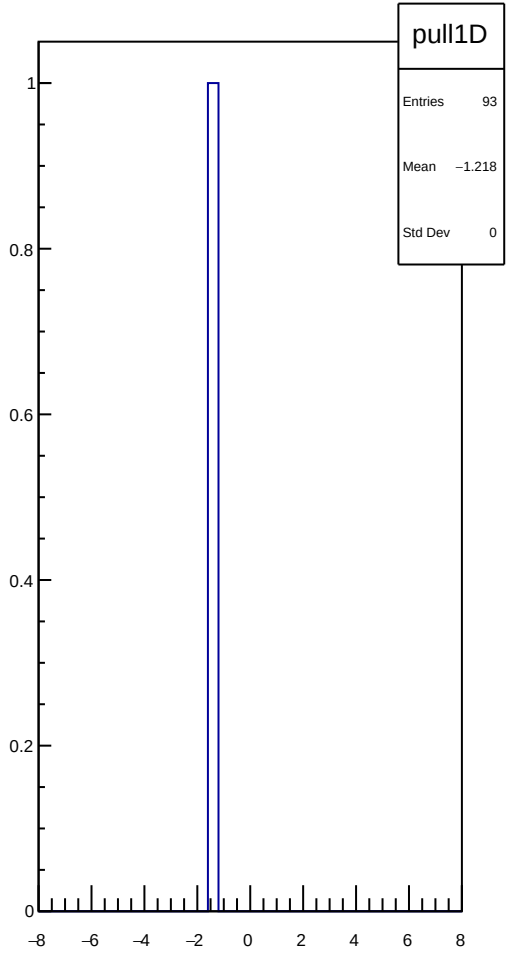

yield_bpm0l01WS_rms vs run
χ² / ndf 6428 / 92
p0 231 ± 0.17
280
270
260
250
240
230
220
210
200

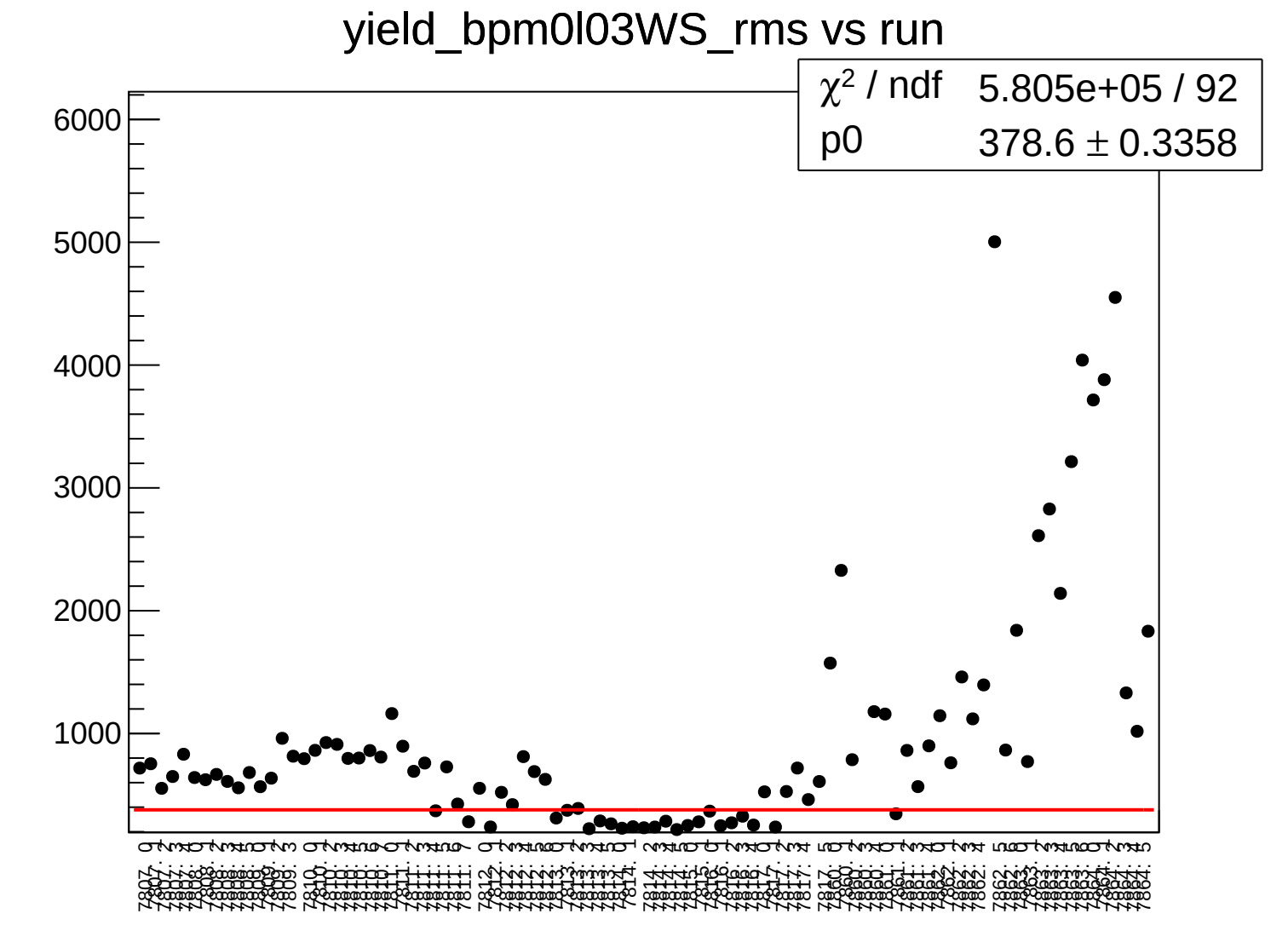

yield_bpm0l02WS_mean vs run
×10^3
χ² / ndf 1.132e+07 / 92
p0 1.365e+05 ± 0.3416
137.5
137
136.5
136
135.5
135
pull
Entries 93
Mean −499.4
Std Dev 0
400
200
0
−200
−400
−600

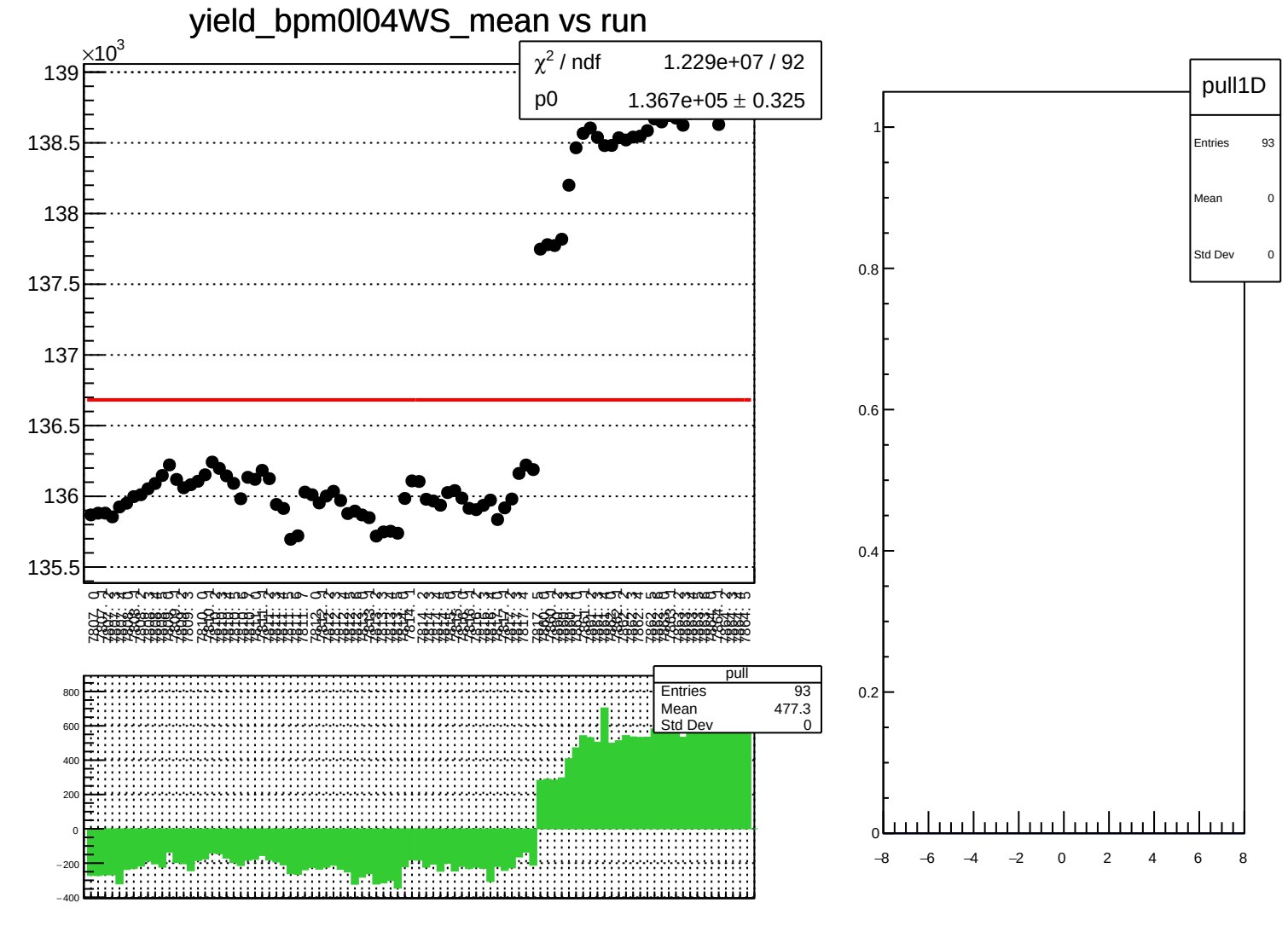

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

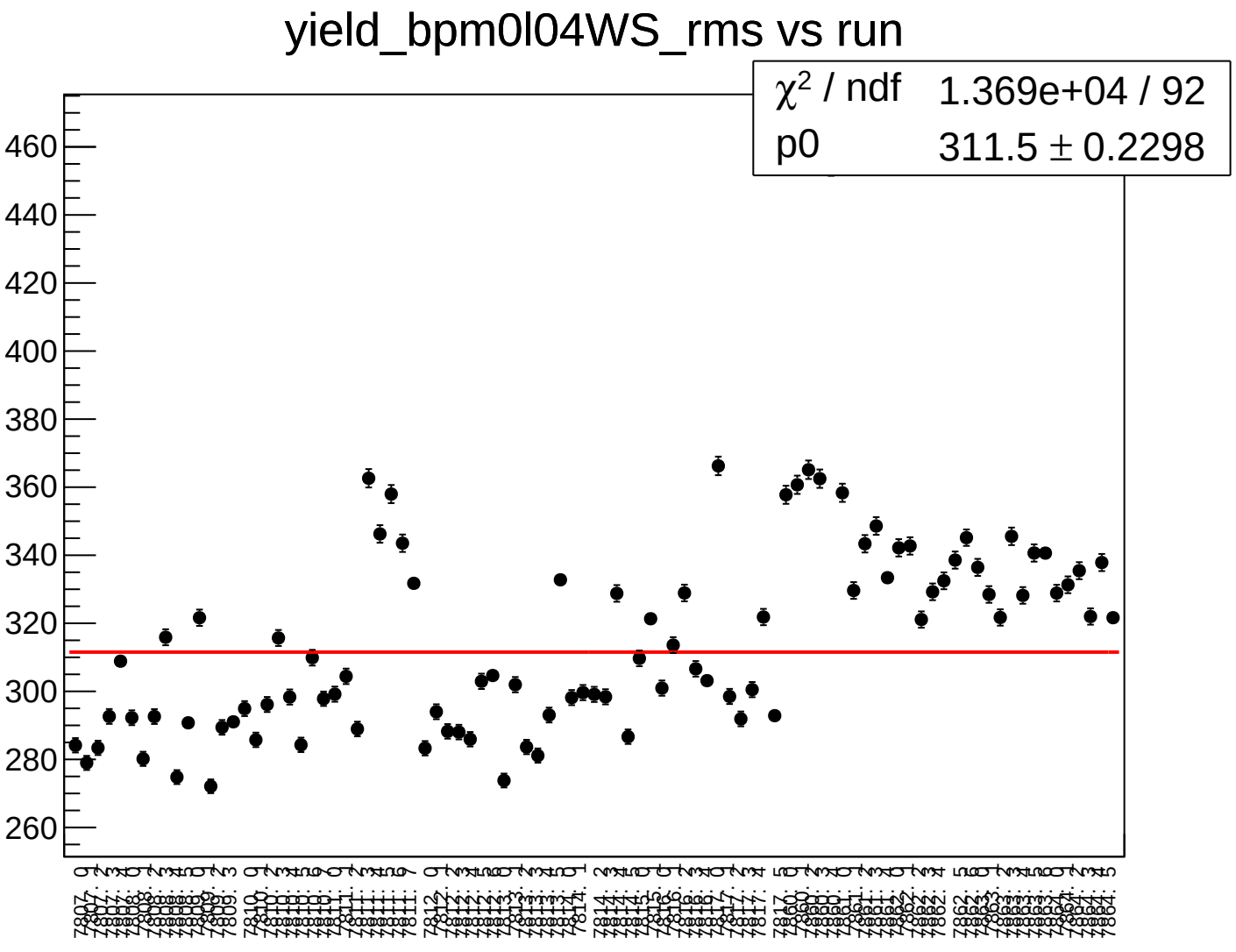

yield_bpm0l02WS_rms vs run
χ^2 / ndf 8182 / 92
p0 328 ± 0.2415
440
420
400
380
360
340
320
300
280

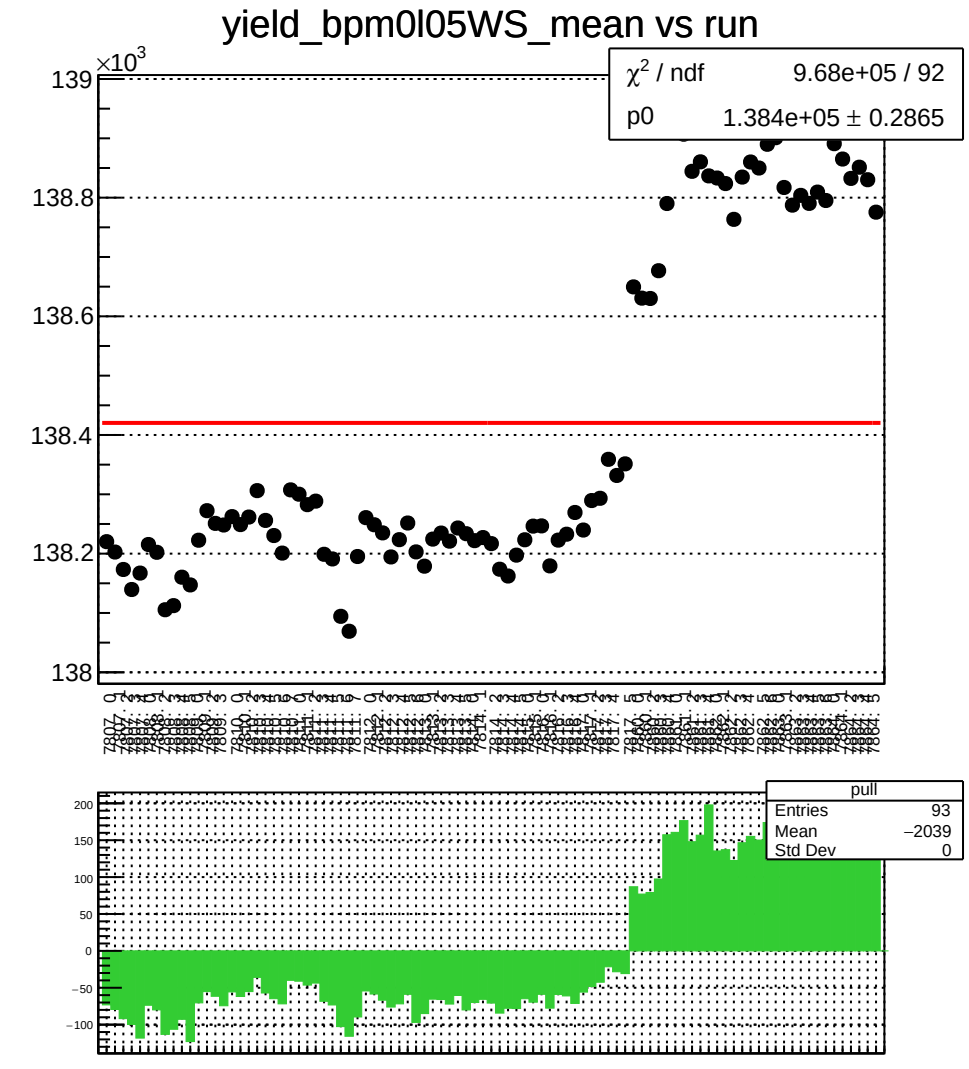

yield_bpm0l03WS_mean vs run
×10^3
χ² / ndf 3.34e+07 / 92
p0 1.328e+05 ± 0.4748
134
132
130
128
126
124
122
120
pull
Entries 93
Mean 116.4
Std Dev 0
500
0
−500
−1000
−1500
−2000
−2500
−3000
−3500

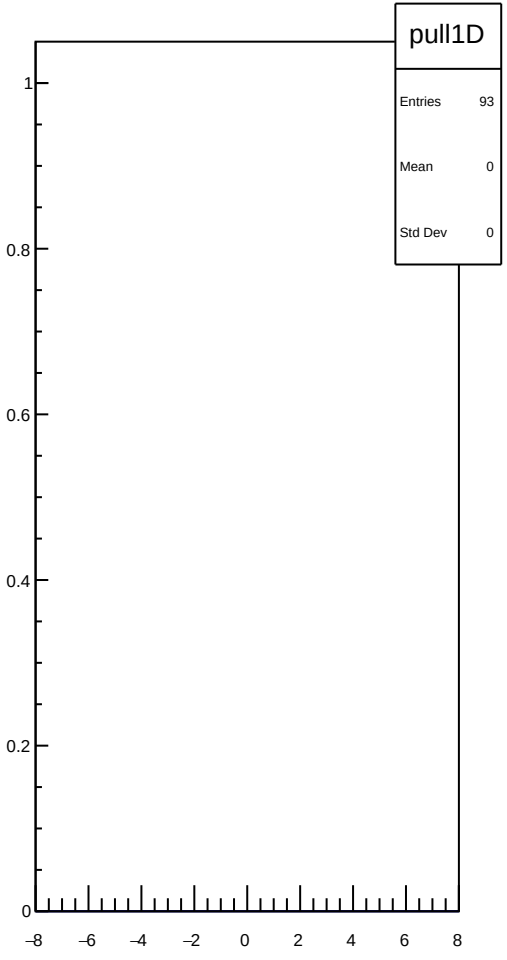

pull1D
Entries 93
Mean −1.218
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

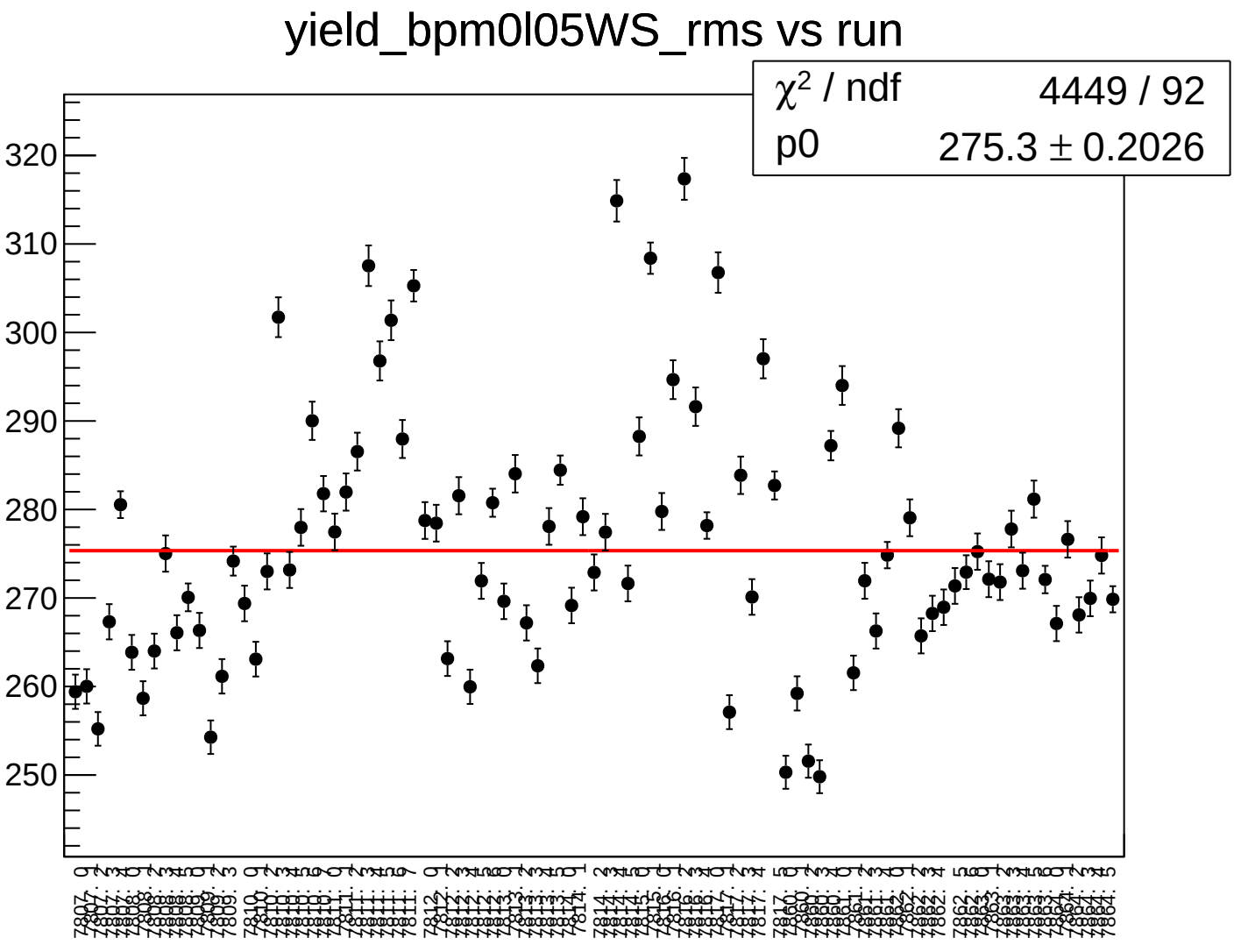

yield_bpm0l03WS_rms vs run
χ² / ndf 5.805e+05 / 92
p0 378.6 ± 0.3358
6000
5000
4000
3000
2000
1000

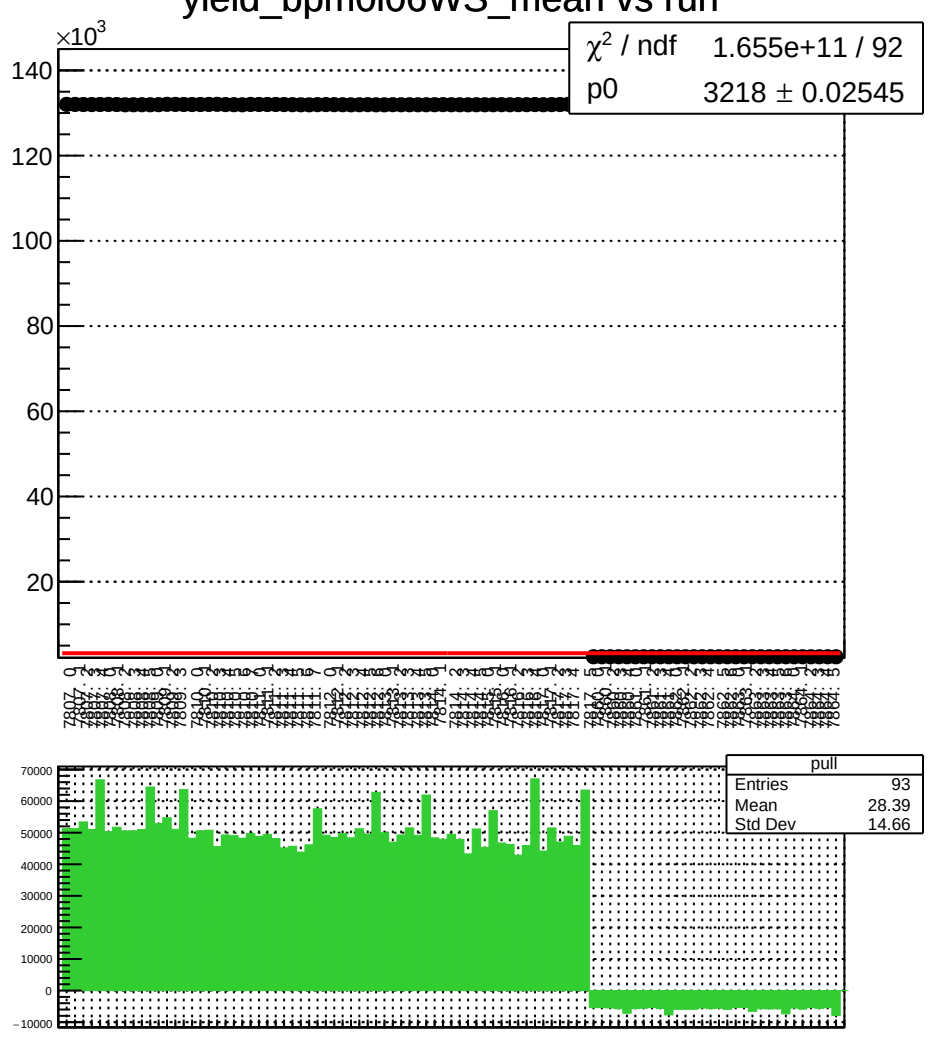

yield_bpm0l04WS_mean vs run
×10^3
χ² / ndf 1.229e+07 / 92
p0 1.367e+05 ± 0.325
139
138.5
138
137.5
137
136.5
136
135.5
pull
Entries 93
Mean 477.3
Std Dev 0
800
600
400
200
0
−200
−400
pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

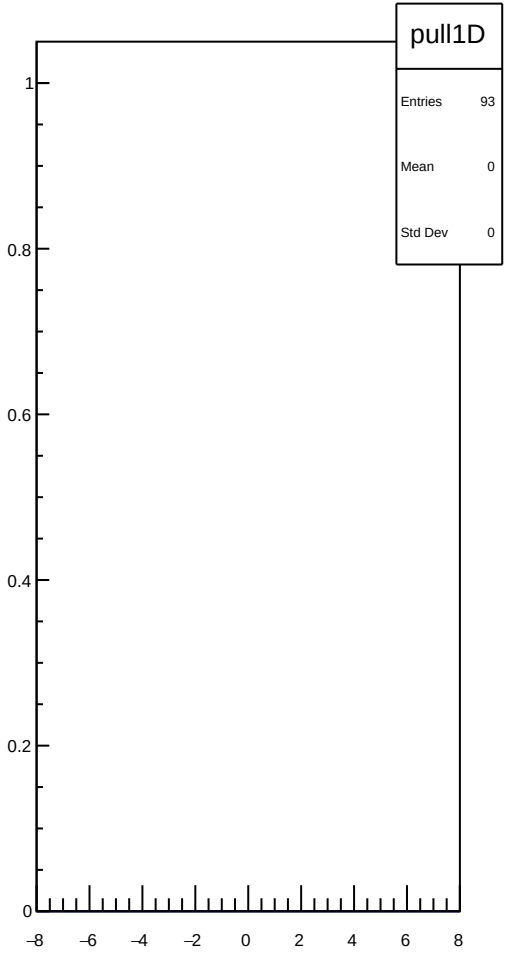

yield_bpm0l04WS_rms vs run
χ² / ndf 1.369e+04 / 92
p0 311.5 ± 0.2298
460
440
420
400
380
360
340
320
300
280
260

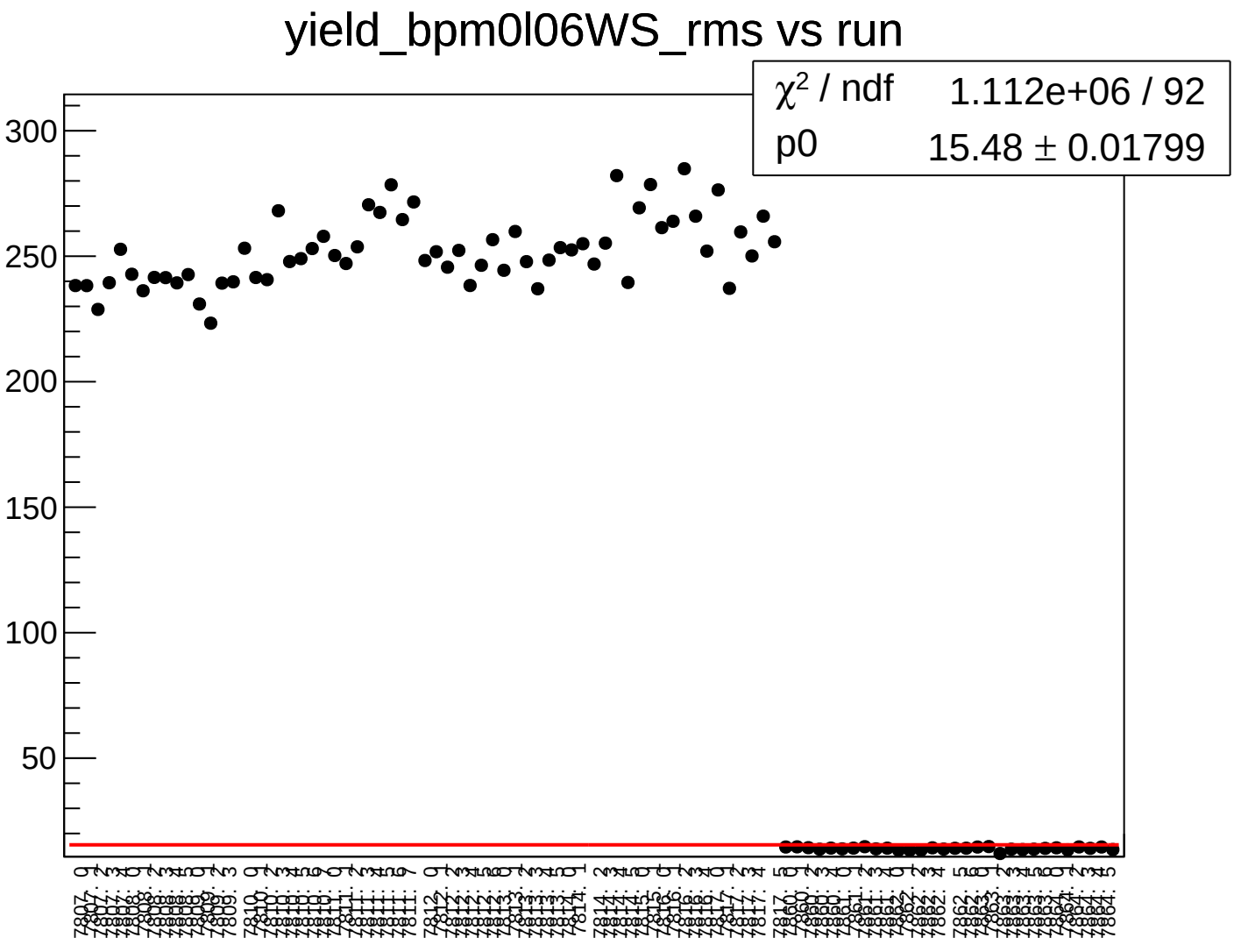

yield_bpm0l05WS_mean vs run
×10^3
139
138.8
138.6
138.4
138.2
138
χ² / ndf 9.68e+05 / 92
p0 1.384e+05 ± 0.2865
pull
Entries 93
Mean −2039
Std Dev 0
200
150
100
50
0
−50
−100

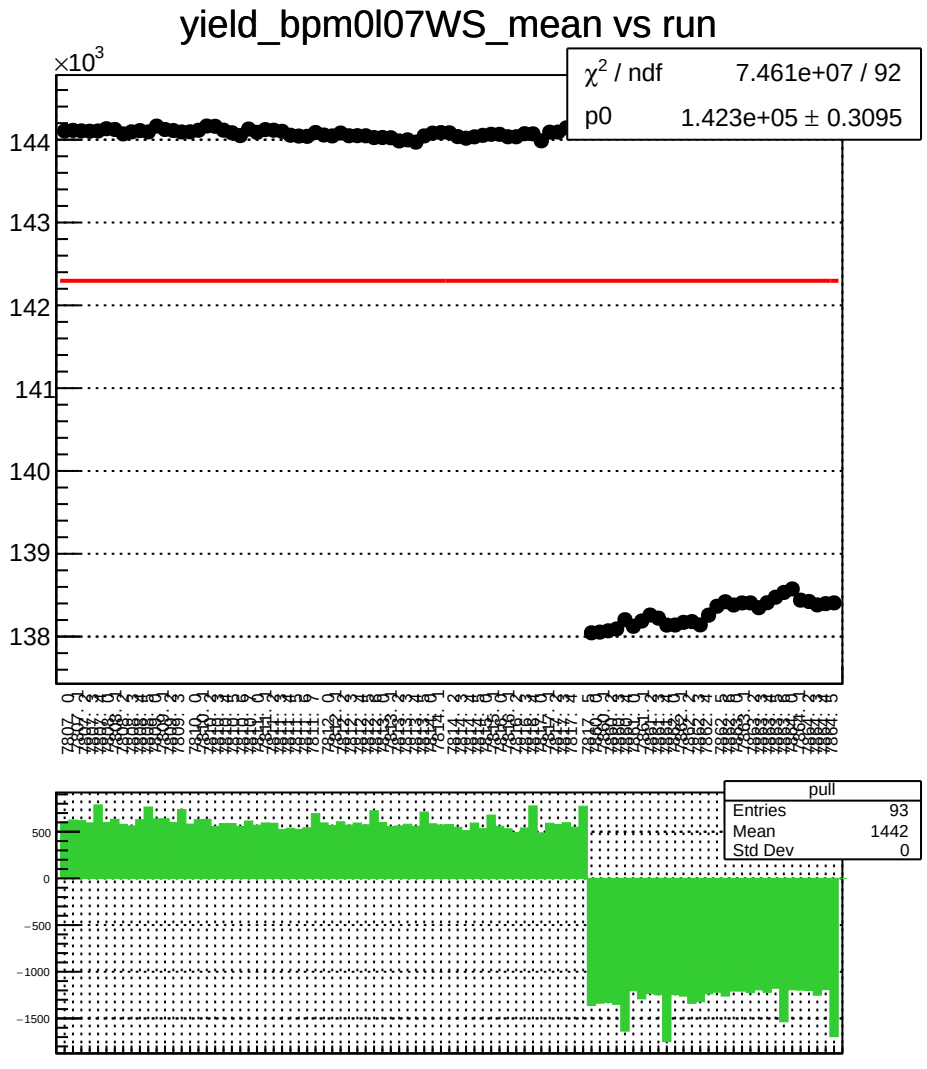

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

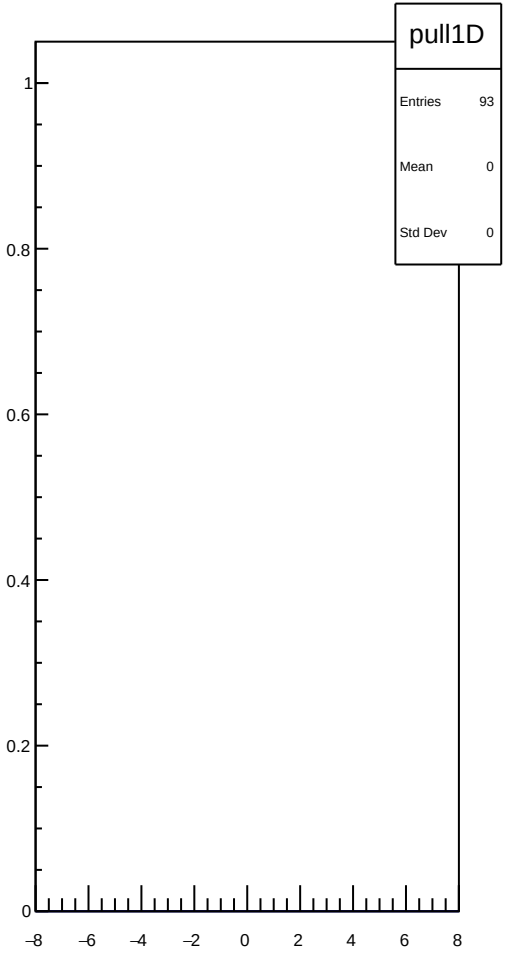

yield_bpm0l05WS_rms vs run
χ² / ndf 4449 / 92
p0 275.3 ± 0.2026
320
310
300
290
280
270
260
250

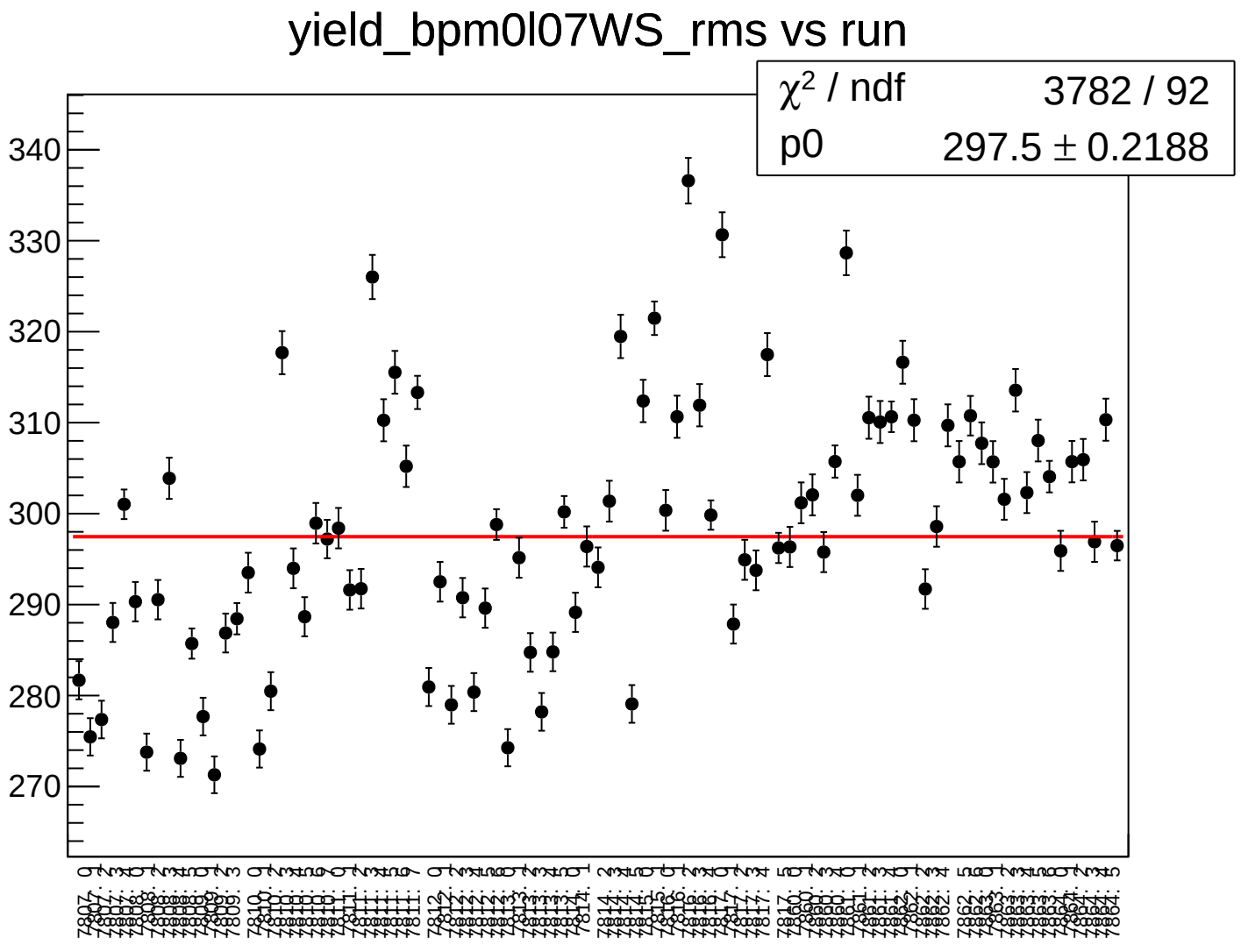

yield_bpm0l06WS_mean vs run
×10^3
χ² / ndf 1.655e+11 / 92
p0 3218 ± 0.02545
140
120
100
80
60
40
20
pull
Entries 93
Mean 28.39
Std Dev 14.66
70000
60000
50000
40000
30000
20000
10000
0
−10000

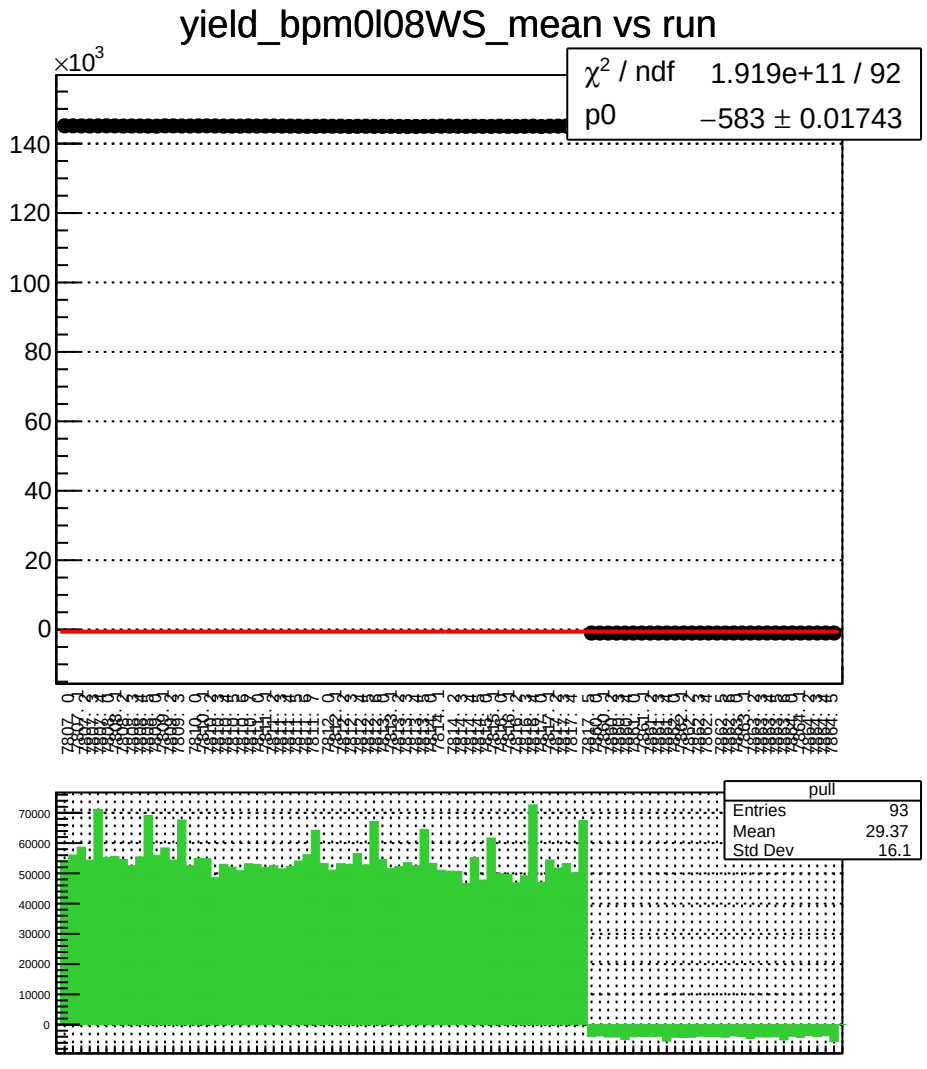

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

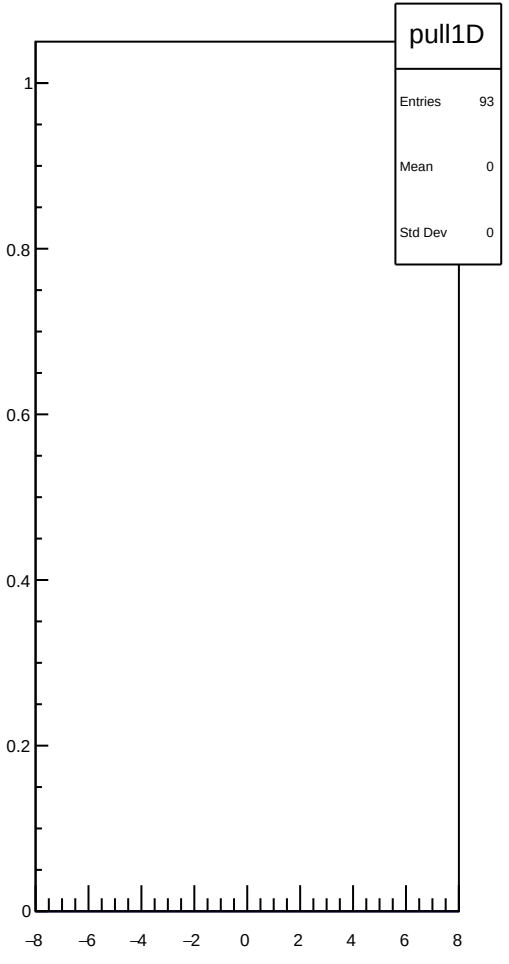

yield_bpm0l06WS_rms vs run
χ² / ndf 1.112e+06 / 92
p0 15.48 ± 0.01799
300
250
200
150
100
50

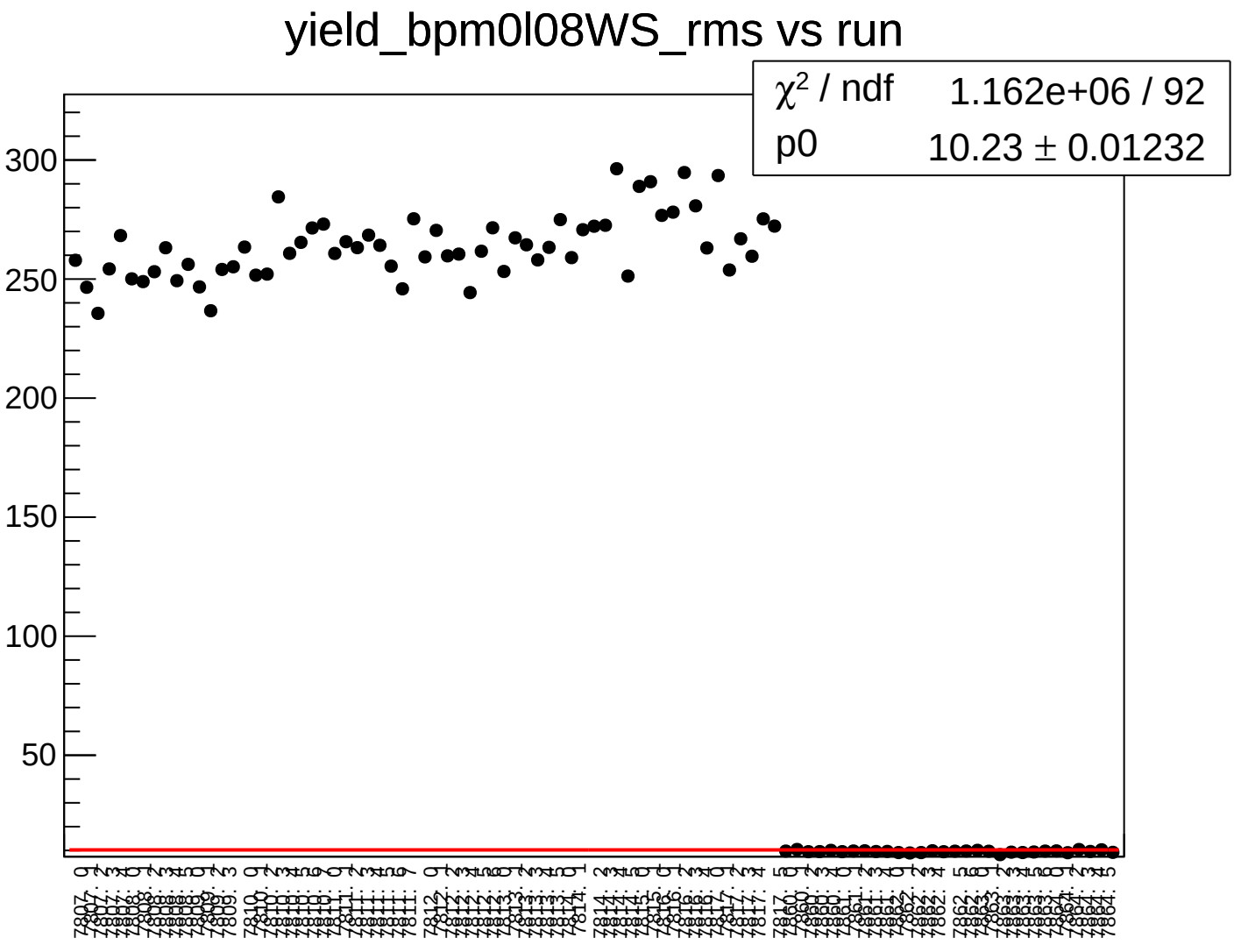

yield_bpm0l07WS_mean vs run
×10^3
χ² / ndf 7.461e+07 / 92
p0 1.423e+05 ± 0.3095
144
143
142
141
140
139
138
pull
Entries 93
Mean 1442
Std Dev 0
500
0
−500
−1000
−1500

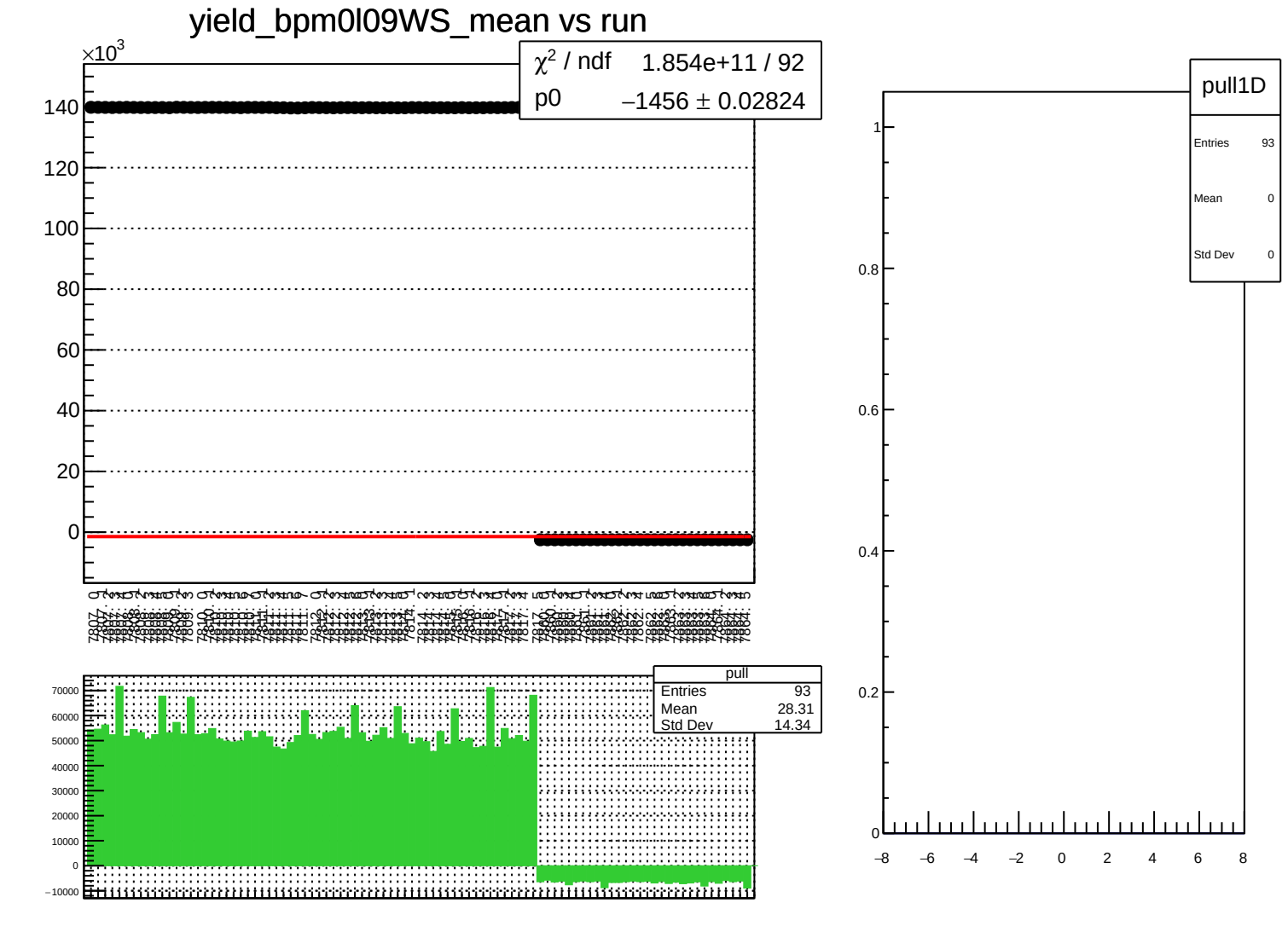

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

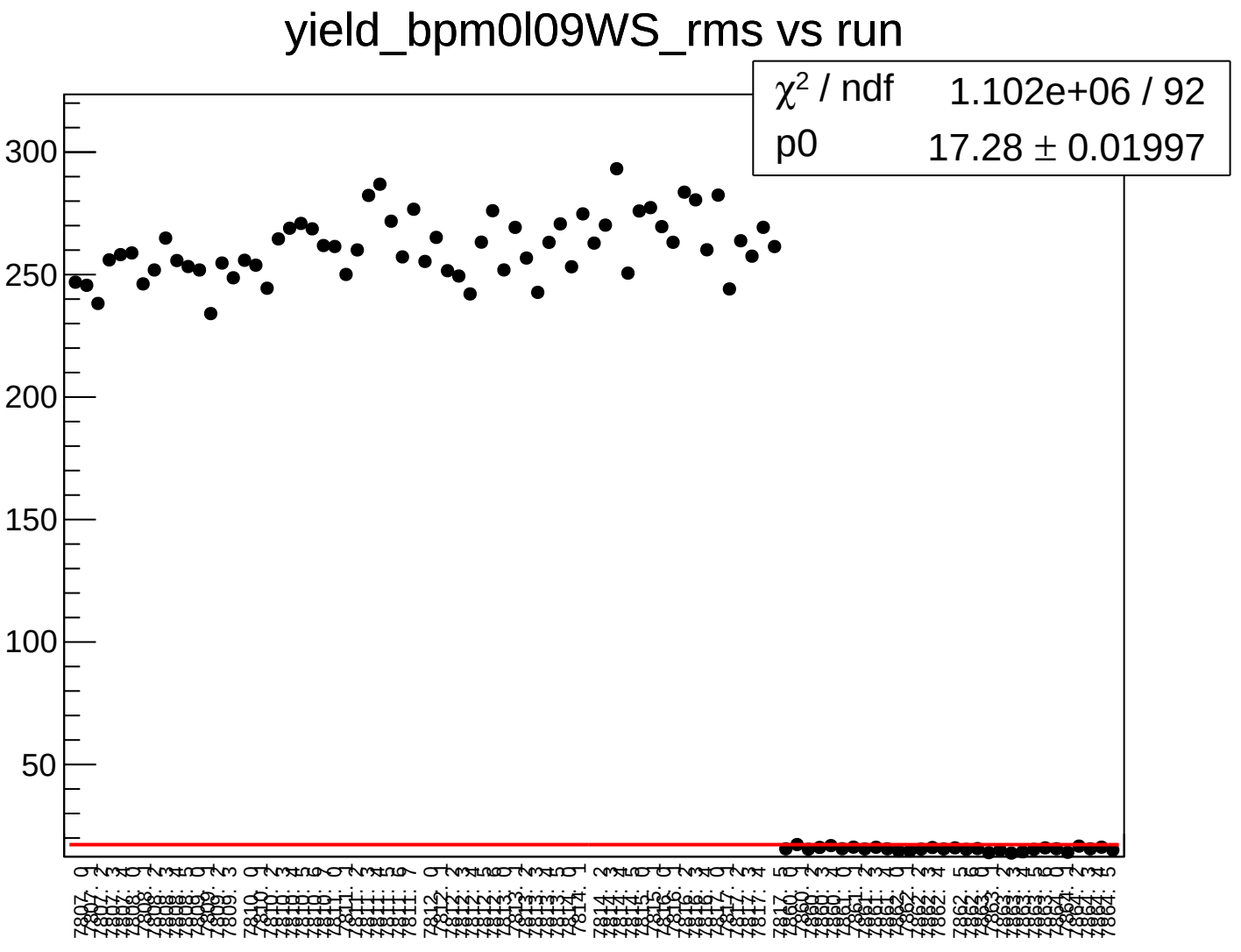

yield_bpm0l07WS_rms vs run
χ² / ndf 3782 / 92
p0 297.5 ± 0.2188
340
330
320
310
300
290
280
270

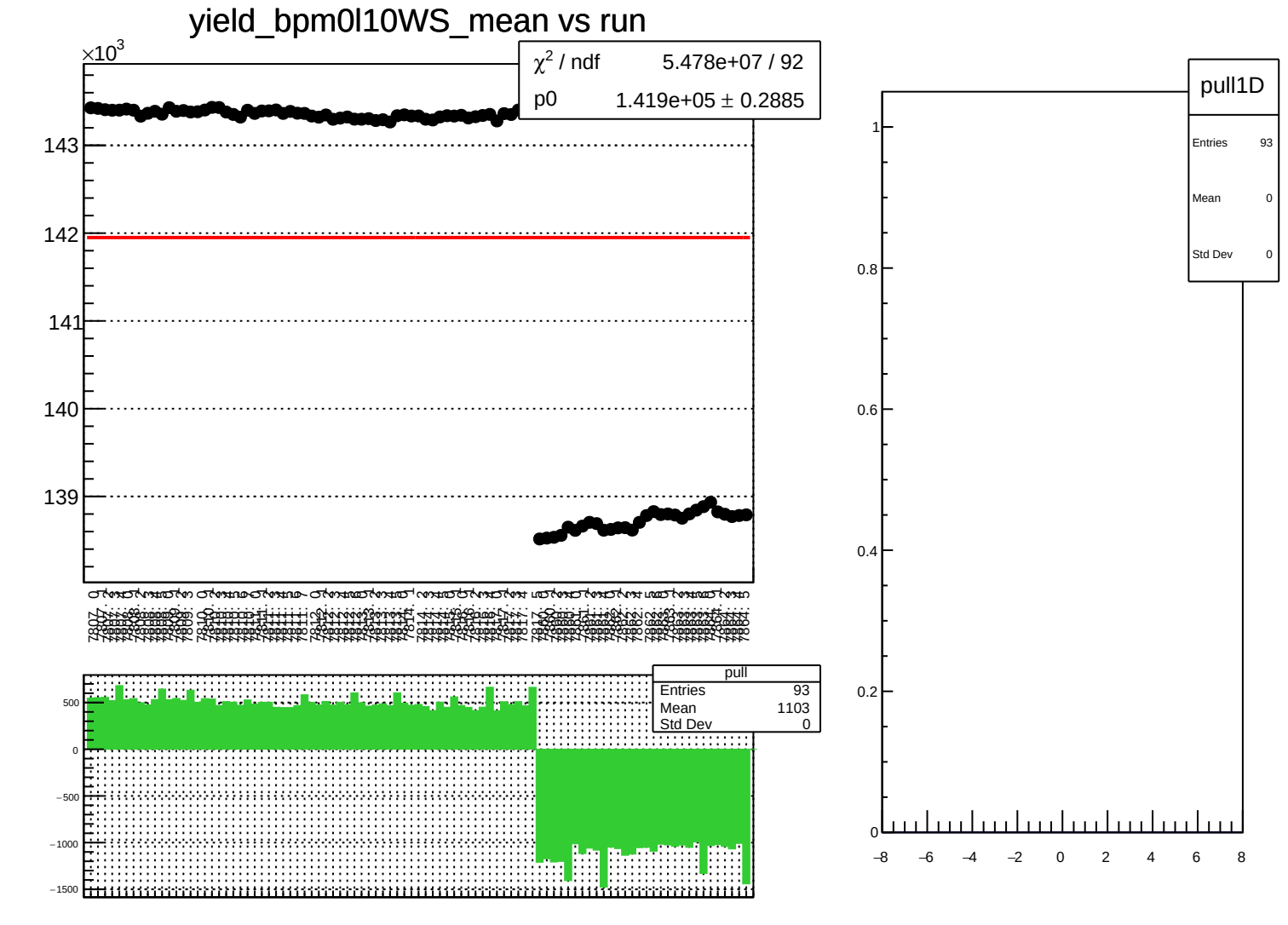

yield_bpm0l08WS_mean vs run
×10^3
χ² / ndf 1.919e+11 / 92
p0 −583 ± 0.01743
140
120
100
80
60
40
20
0
pull
Entries 93
Mean 29.37
Std Dev 16.1
70000
60000
50000
40000
30000
20000
10000
0

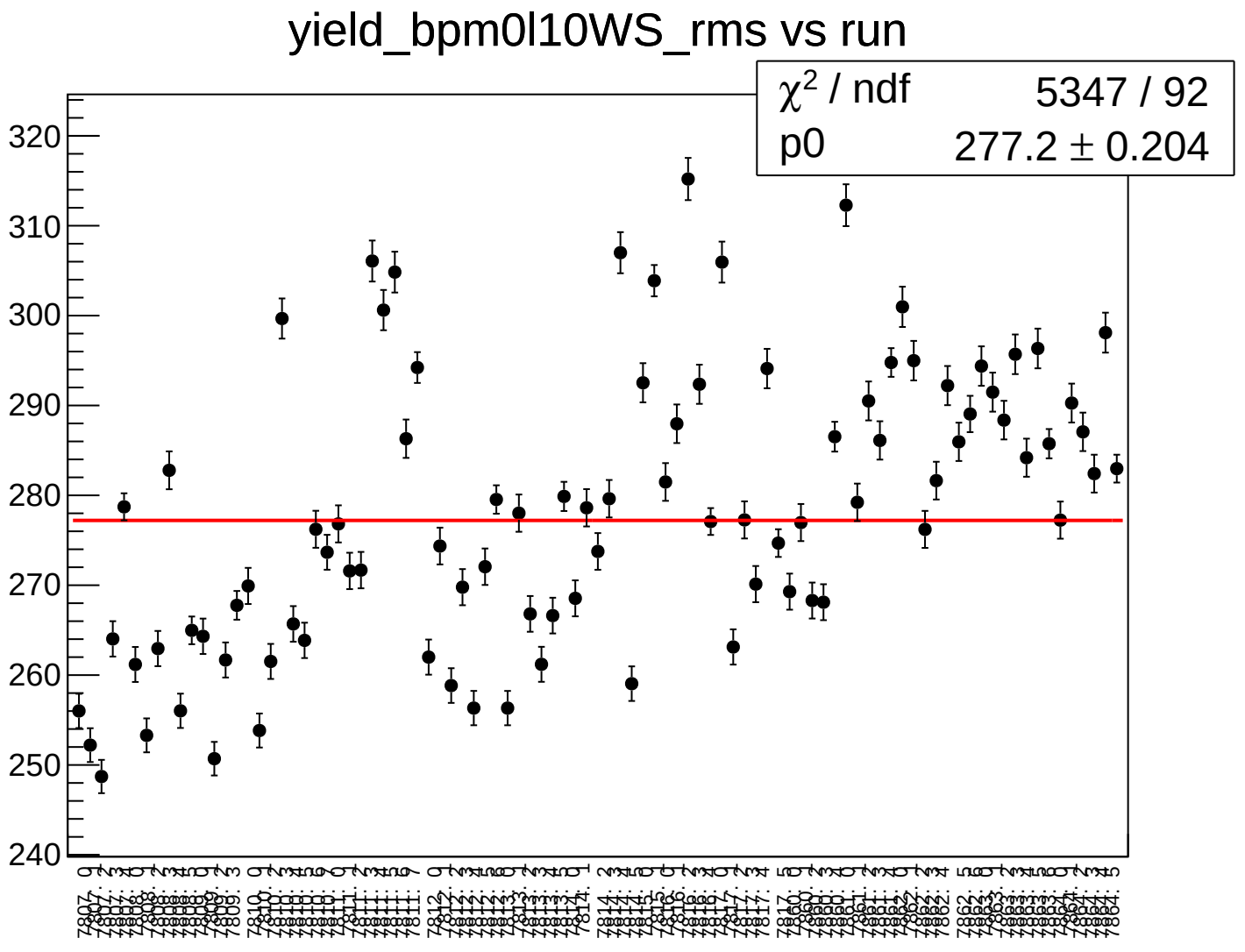

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

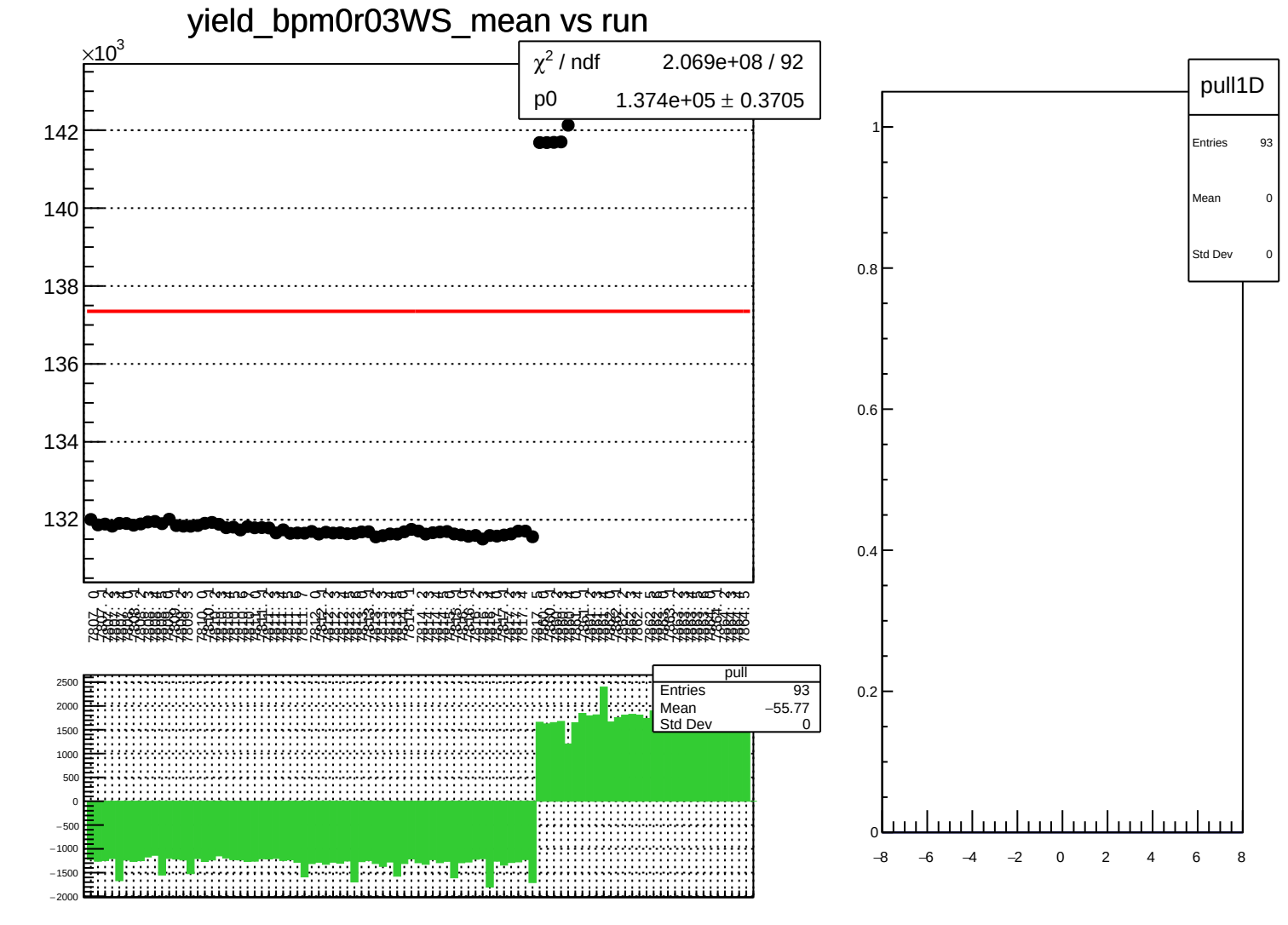

yield_bpm0l08WS_rms vs run
χ² / ndf 1.162e+06 / 92
p0 10.23 ± 0.01232
300
250
200
150
100
50

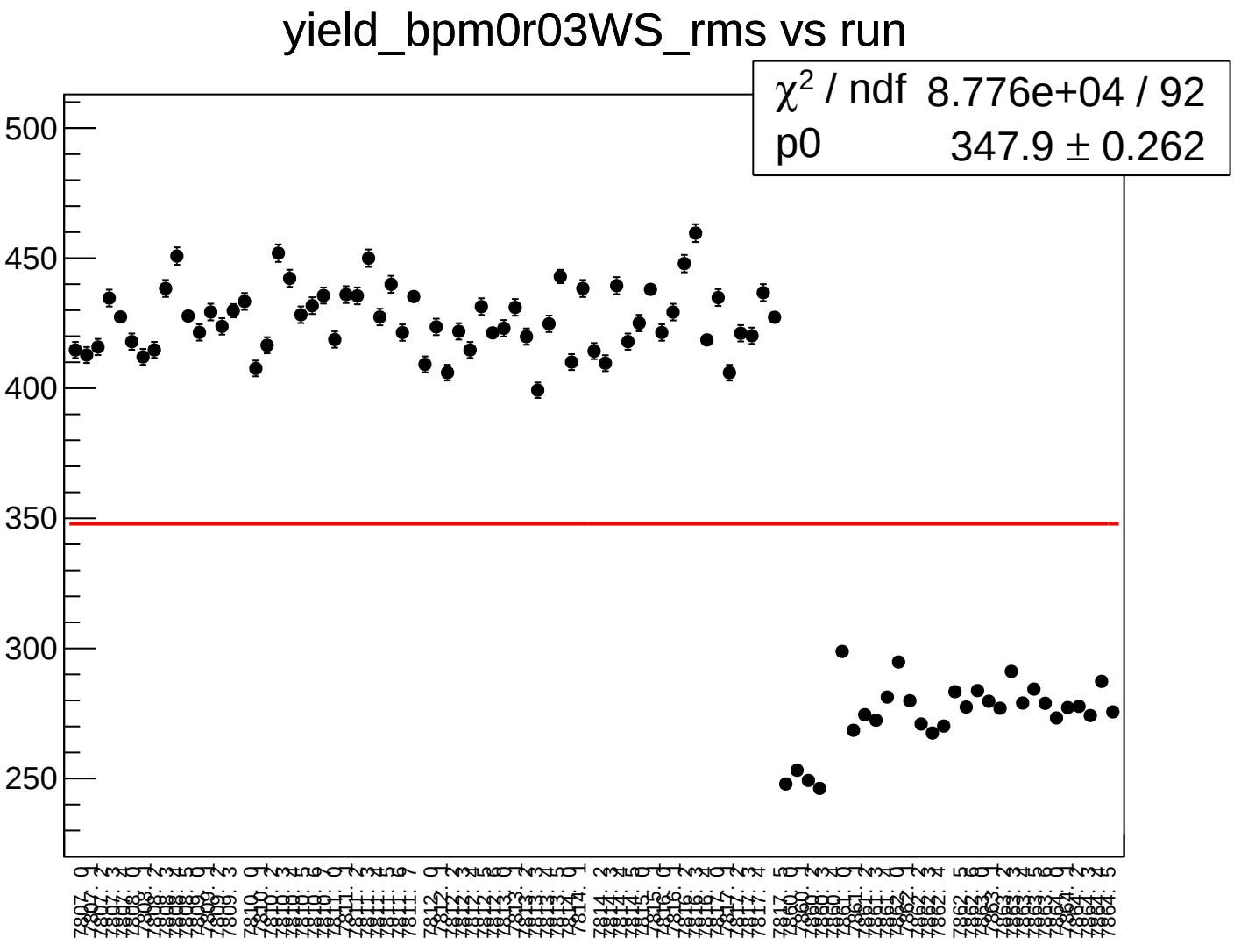

yield_bpm0l09WS_mean vs run
×10^3
χ² / ndf 1.854e+11 / 92
p0 −1456 ± 0.02824
140
120
100
80
60
40
20
0
pull
Entries 93
Mean 28.31
Std Dev 14.34
70000
60000
50000
40000
30000
20000
10000
0
−10000
pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

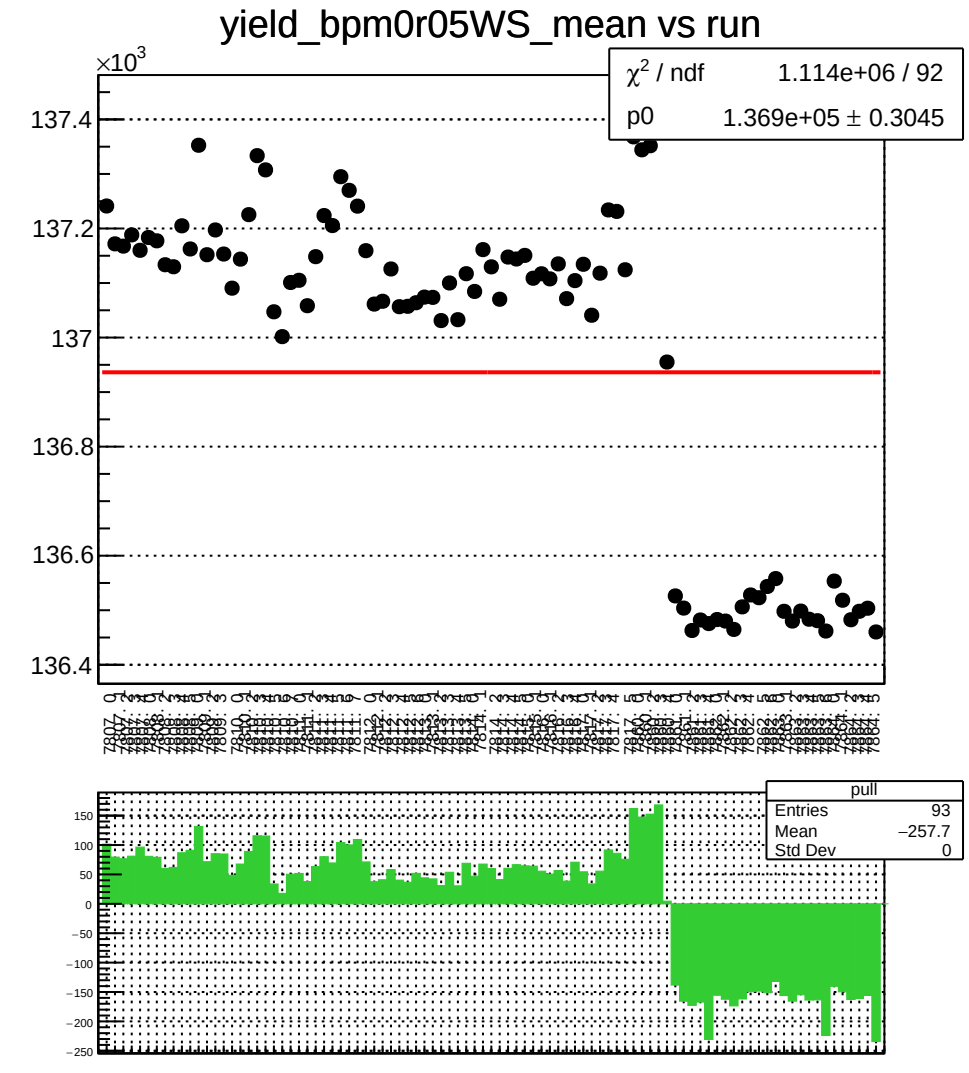

yield_bpm0l09WS_rms vs run
χ² / ndf 1.102e+06 / 92
p0 17.28 ± 0.01997
300
250
200
150
100
50

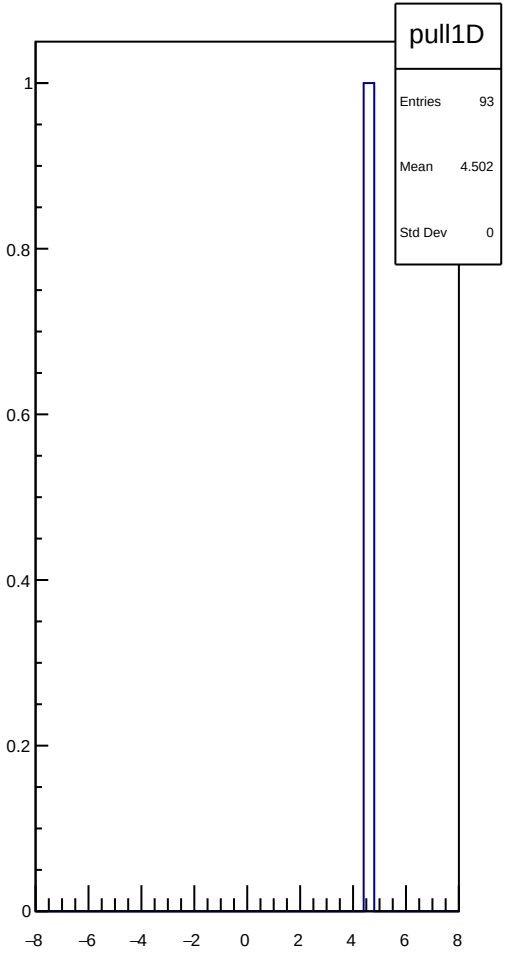

yield_bpm0l10WS_mean vs run
×10^3
χ² / ndf 5.478e+07 / 92
p0 1.419e+05 ± 0.2885
143
142
141
140
139
pull
Entries 93
Mean 1103
Std Dev 0
500
0
−500
−1000
−1500
pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

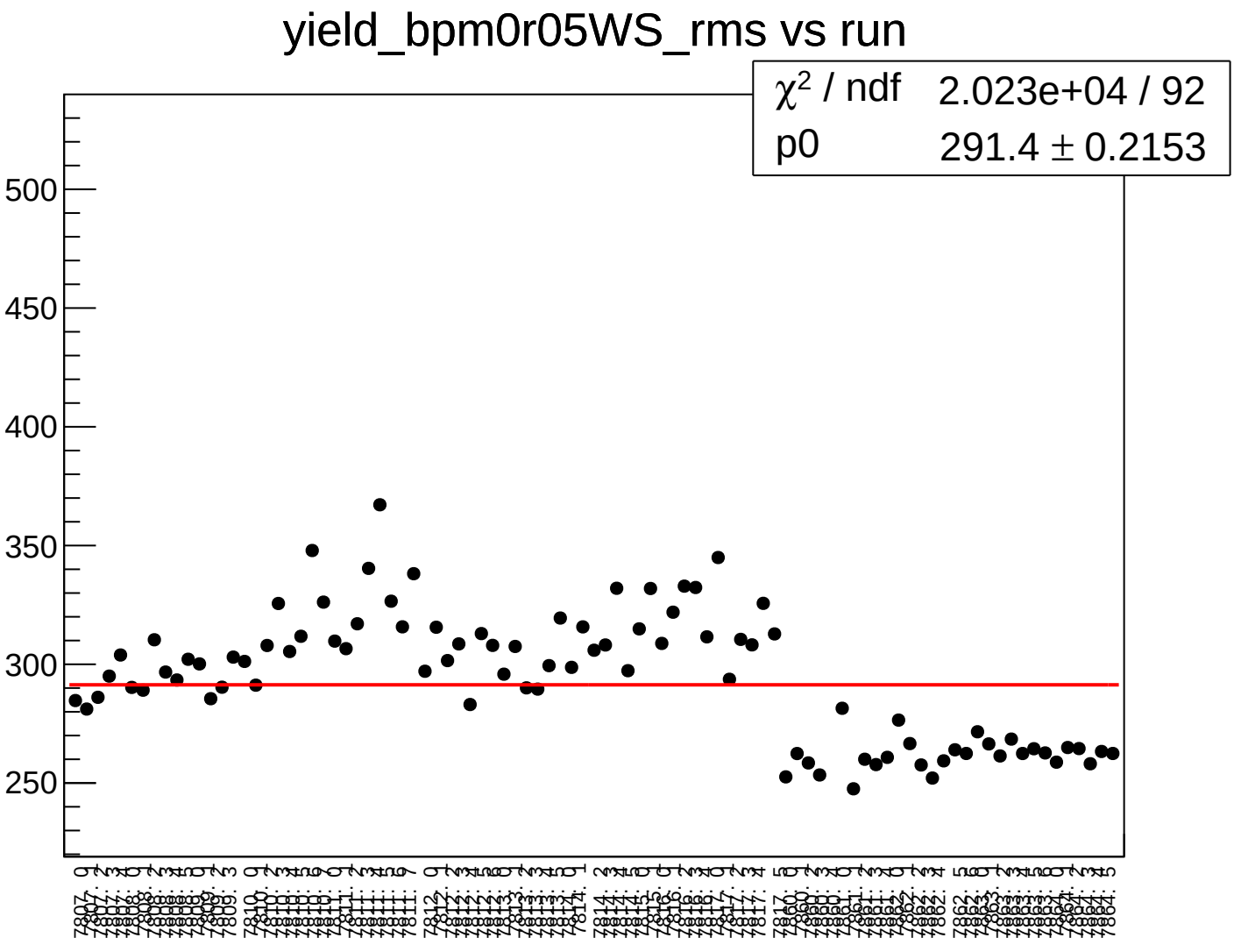

yield_bpm0l10WS_rms vs run
χ² / ndf 5347 / 92
p0 277.2 ± 0.204
320
310
300
290
280
270
260
250
240

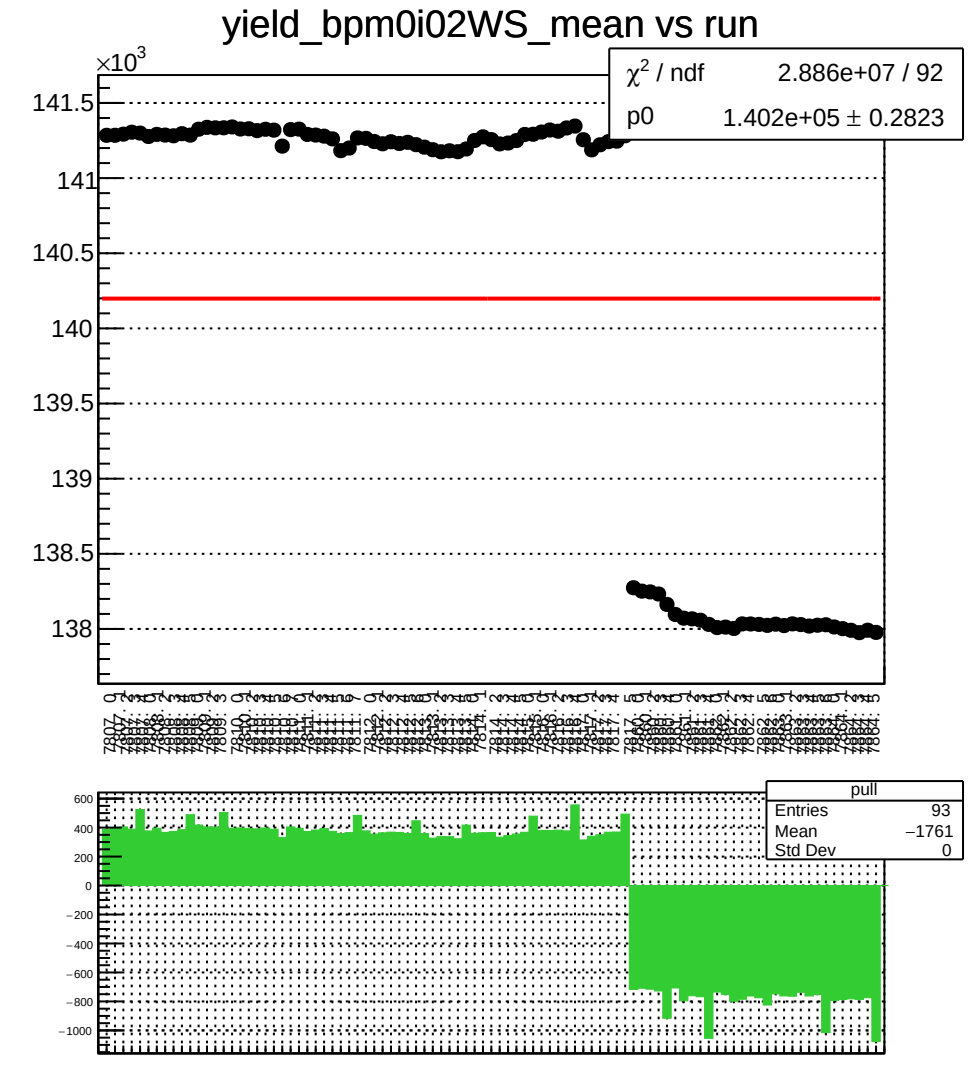

yield_bpm0r03WS_mean vs run
×10^3
χ² / ndf 2.069e+08 / 92
p0 1.374e+05 ± 0.3705
142
140
138
136
134
132
pull
Entries 93
Mean −55.77
Std Dev 0
2500
2000
1500
1000
500
0
−500
−1000
−1500
−2000
pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

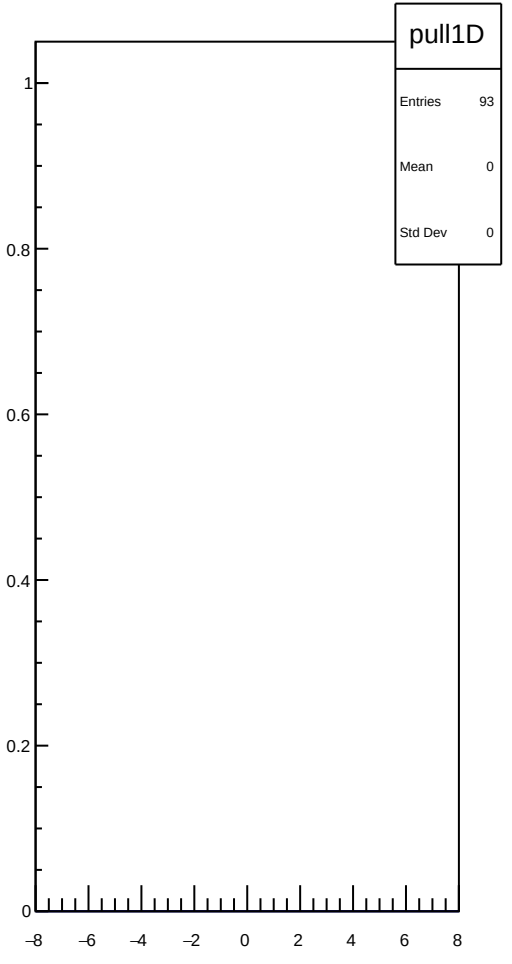

yield_bpm0r03WS_rms vs run
χ² / ndf 8.776e+04 / 92
p0 347.9 ± 0.262
500
450
400
350
300
250

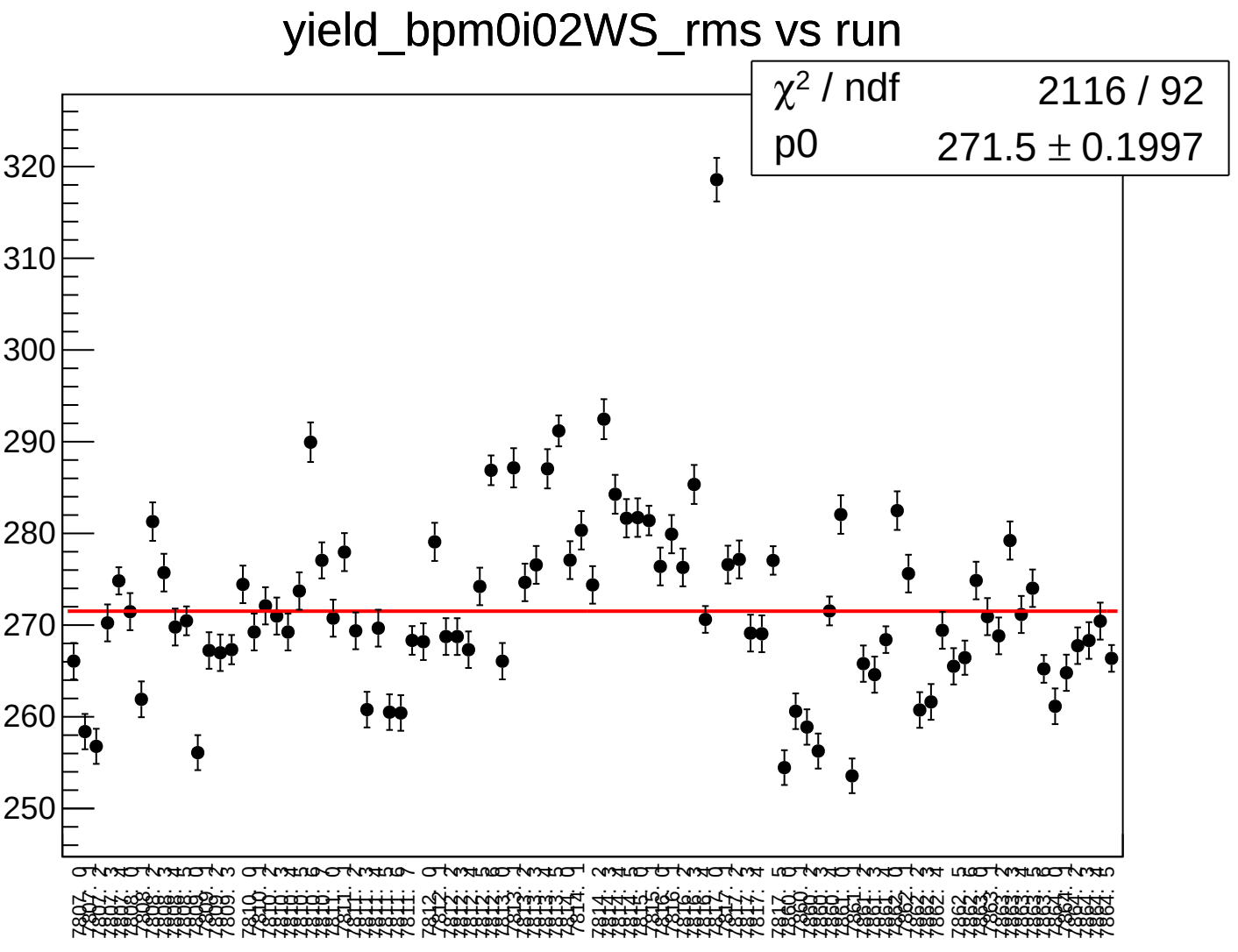

yield_bpm0r05WS_mean vs run
×10^3
χ^2 / ndf 1.114e+06 / 92
p0 1.369e+05 ± 0.3045
137.4
137.2
137
136.8
136.6
136.4
pull
Entries 93
Mean −257.7
Std Dev 0
150
100
50
0
−50
−100
−150
−200
−250

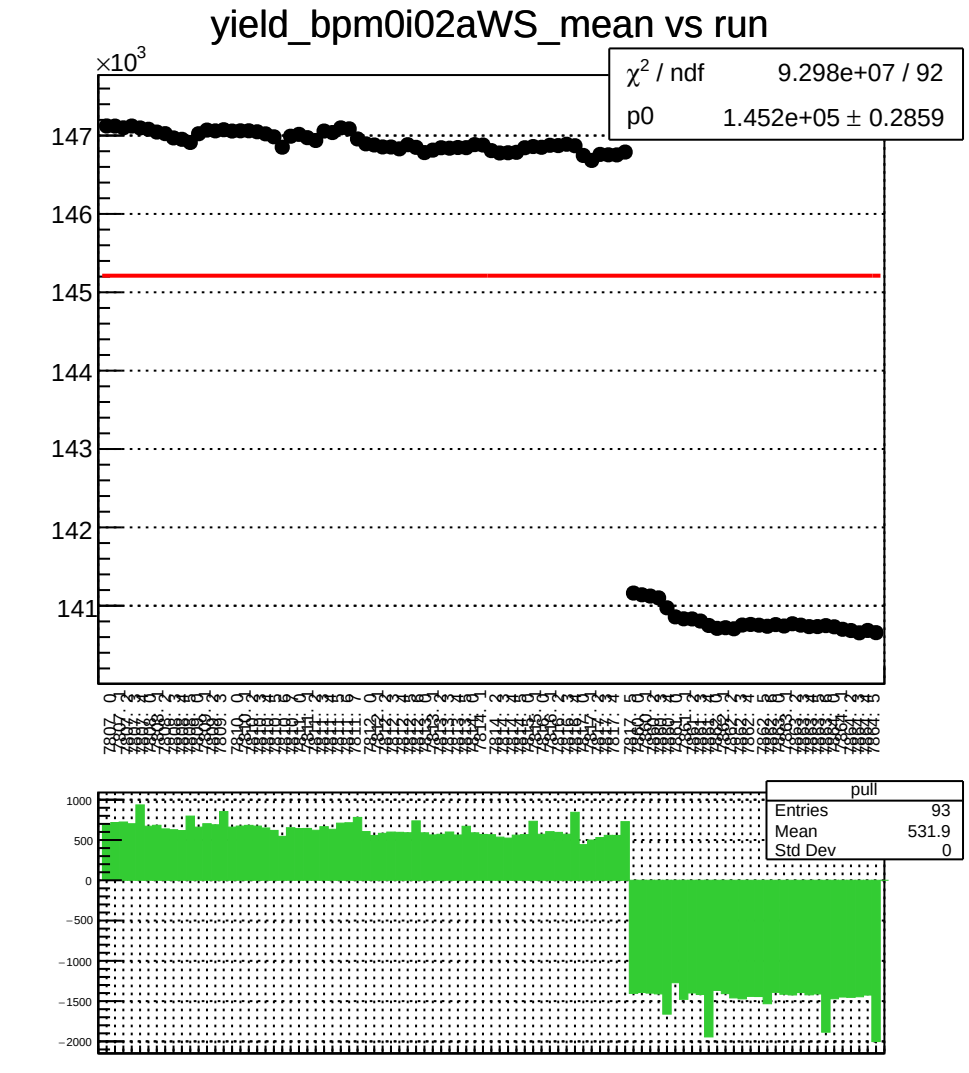

pull1D
Entries 93
Mean 4.502
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

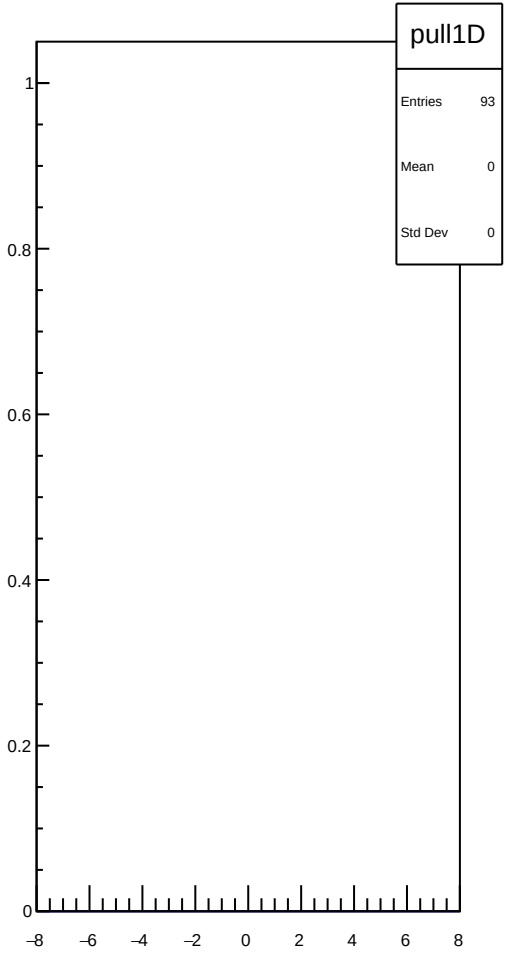

yield_bpm0r05WS_rms vs run
χ² / ndf 2.023e+04 / 92
p0 291.4 ± 0.2153
500
450
400
350
300
250

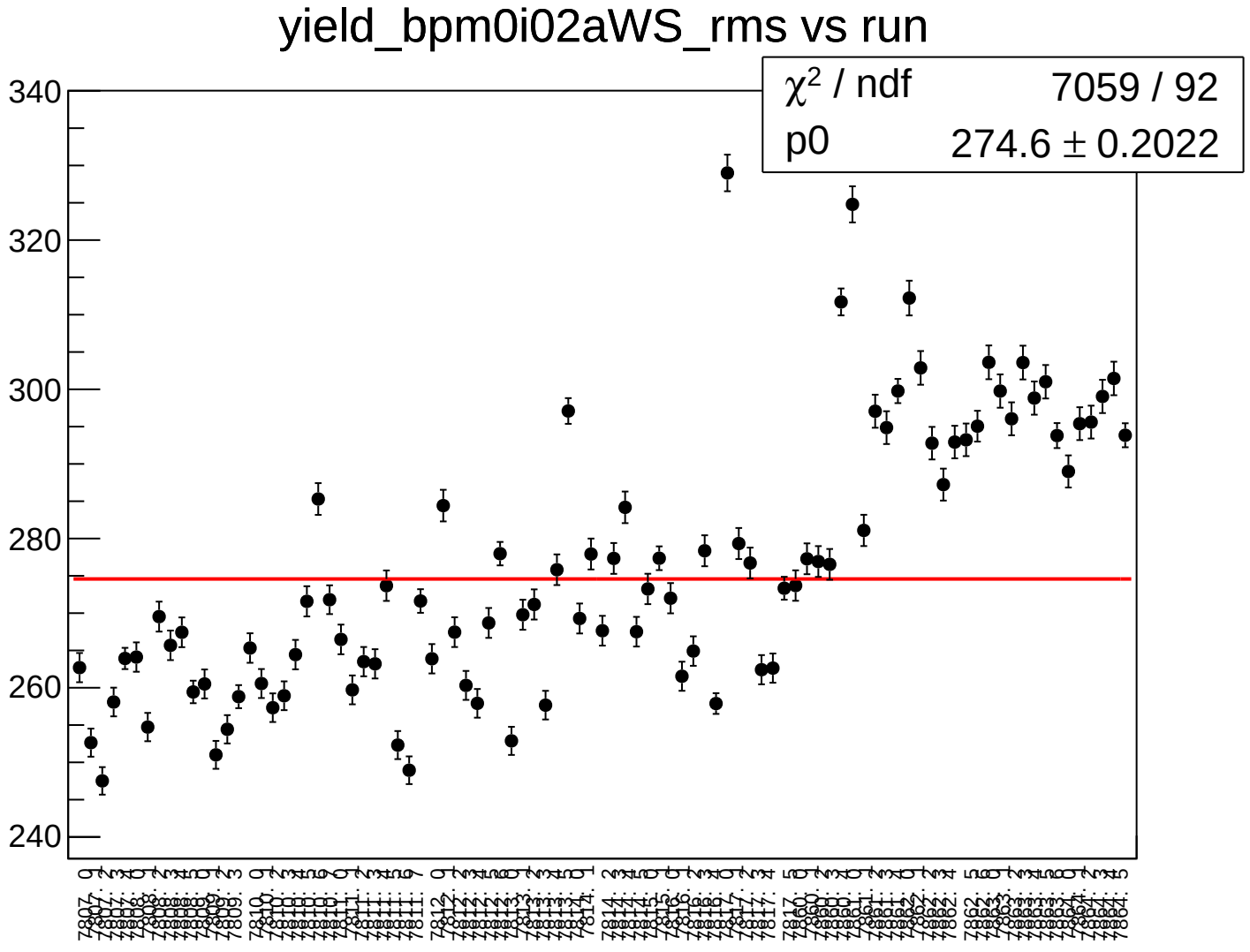

yield_bpm0i02WS_mean vs run
×10^3
χ² / ndf 2.886e+07 / 92
p0 1.402e+05 ± 0.2823
141.5
141
140.5
140
139.5
139
138.5
138
pull
Entries 93
Mean −1761
Std Dev 0
600
400
200
0
−200
−400
−600
−800
−1000

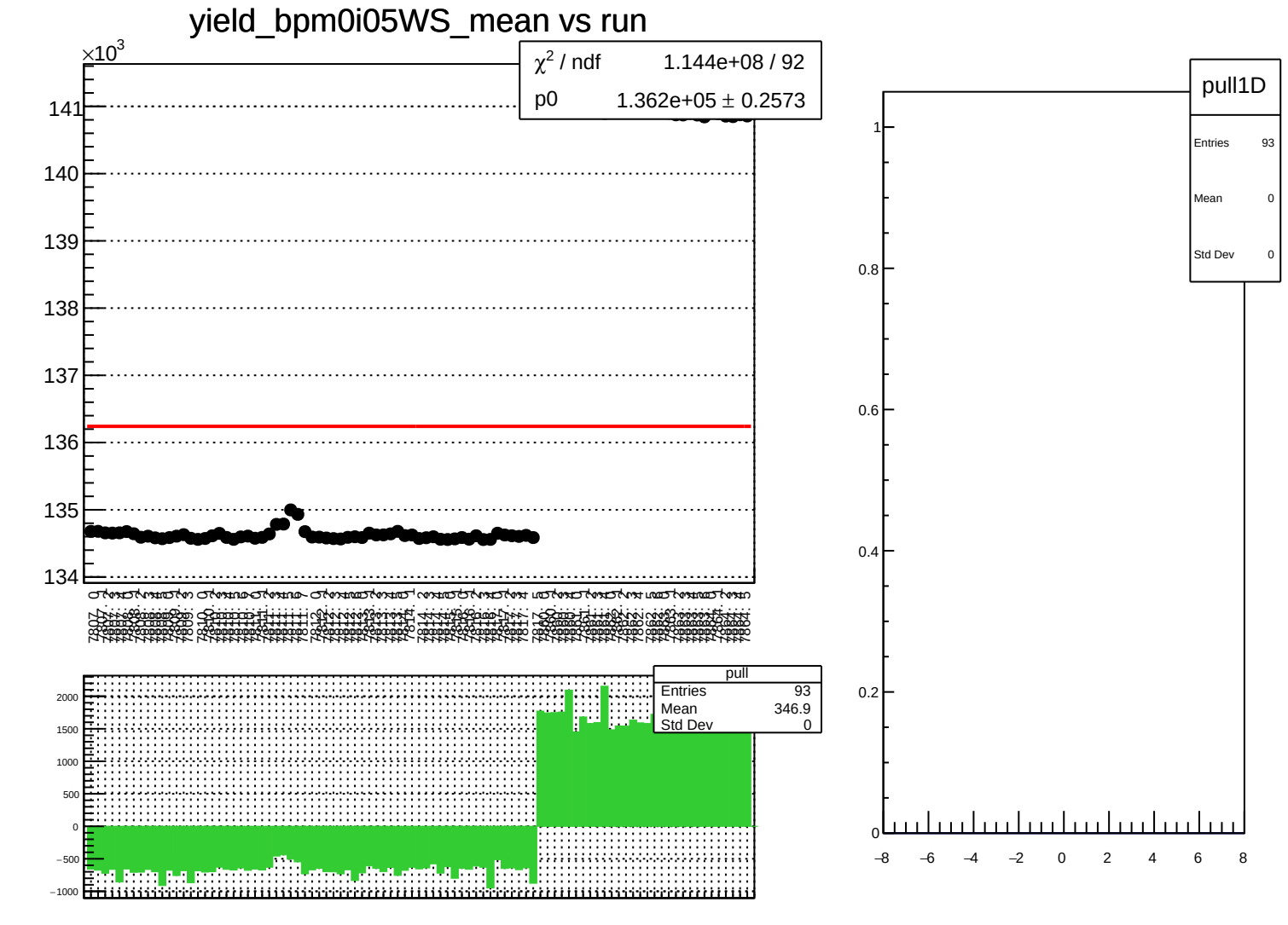

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

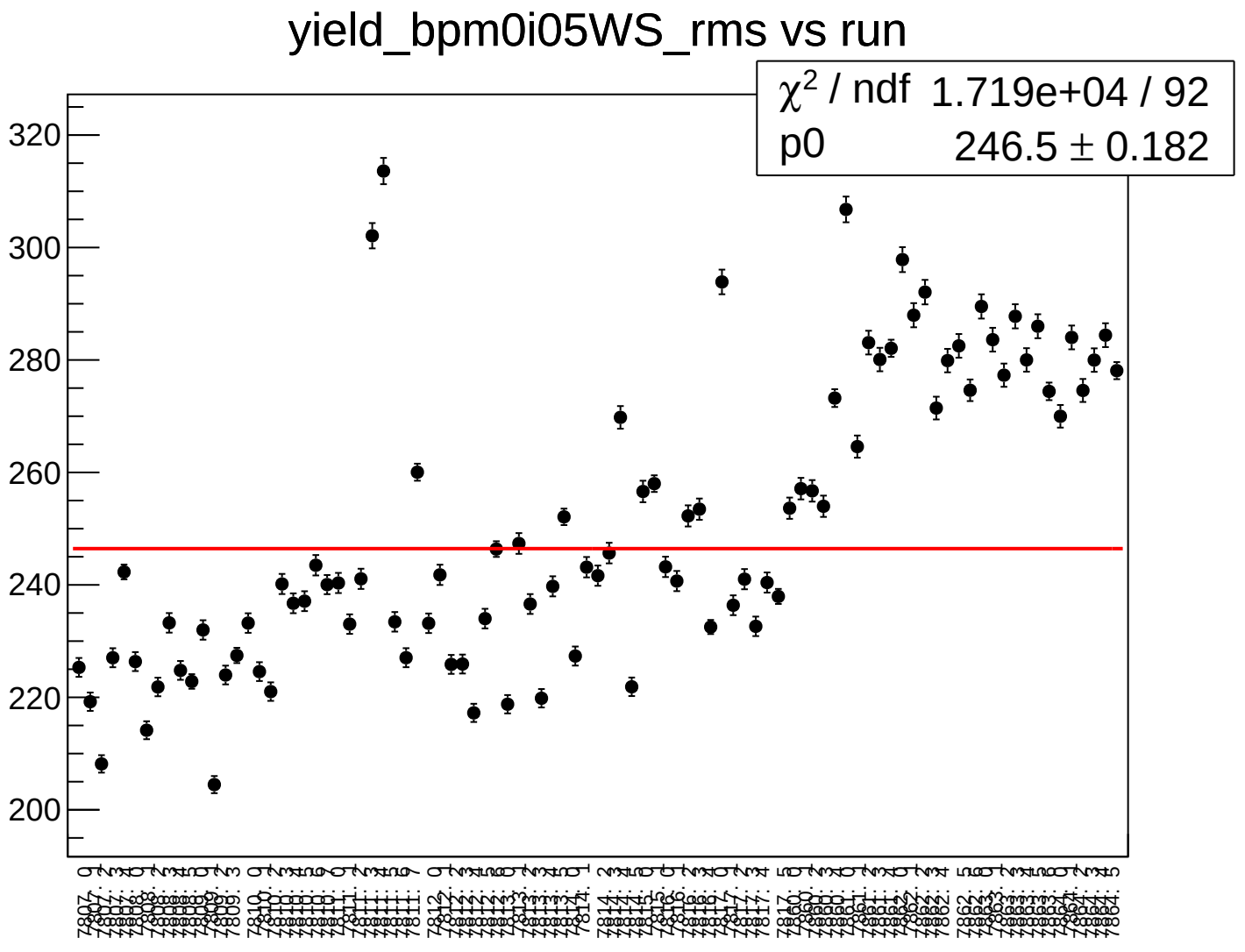

yield_bpm0i02WS_rms vs run
χ² / ndf 2116 / 92
p0 271.5 ± 0.1997
320
310
300
290
280
270
260
250

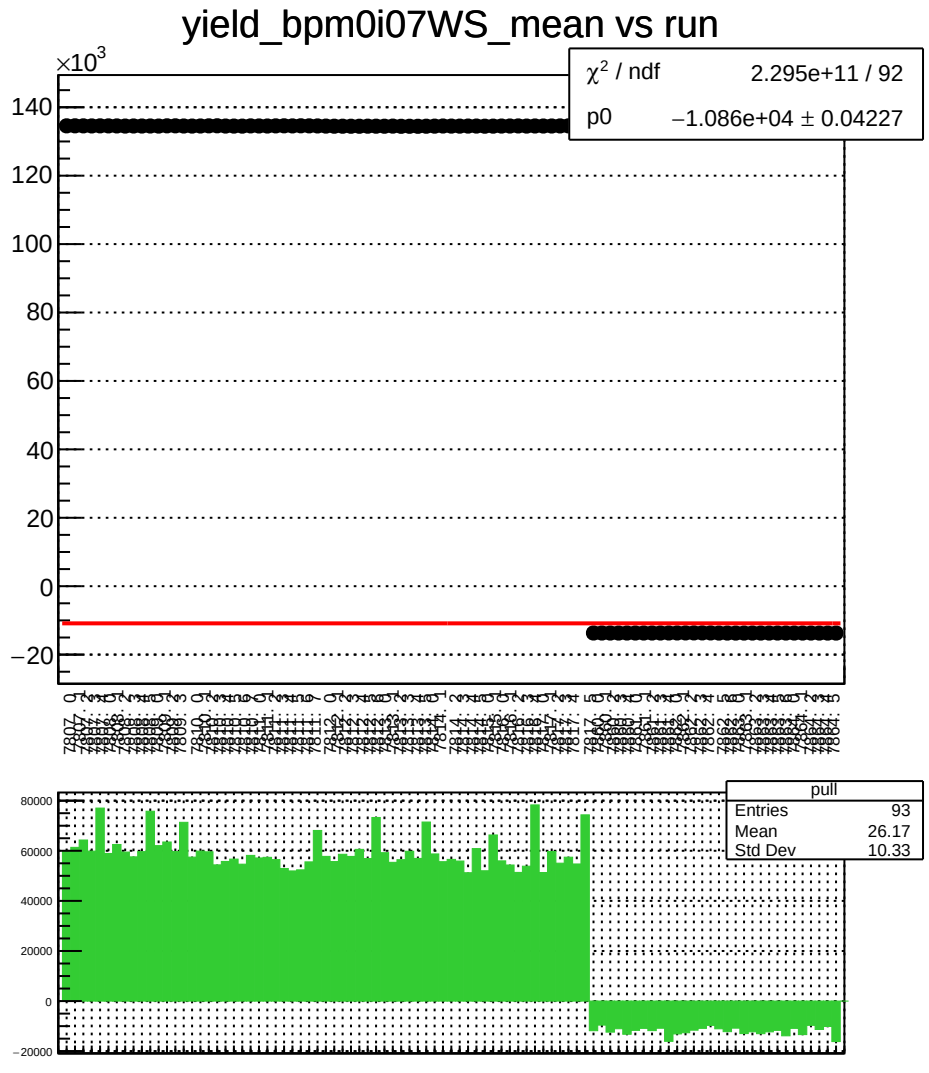

yield_bpm0i02aWS_mean vs run
×10^3
χ² / ndf 9.298e+07 / 92
p0 1.452e+05 ± 0.2859
147
146
145
144
143
142
141
pull
Entries 93
Mean 531.9
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000

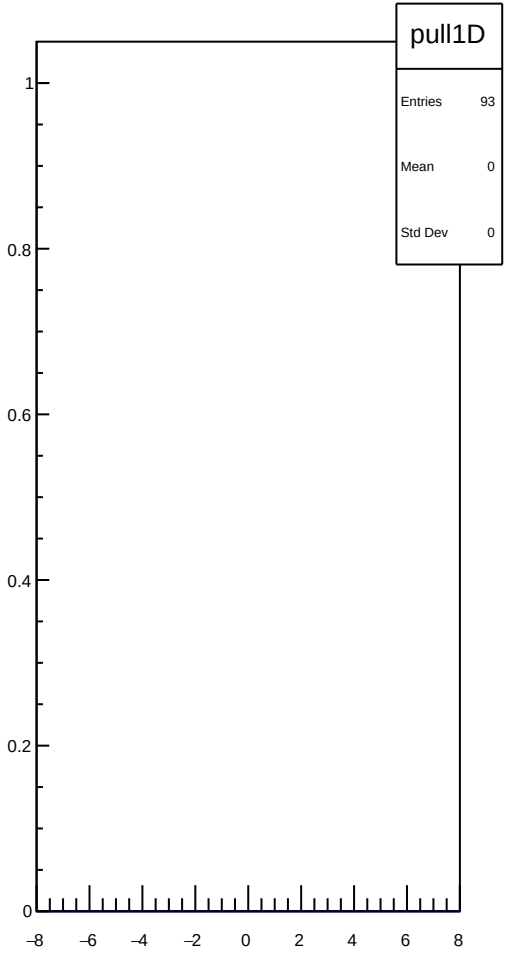

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

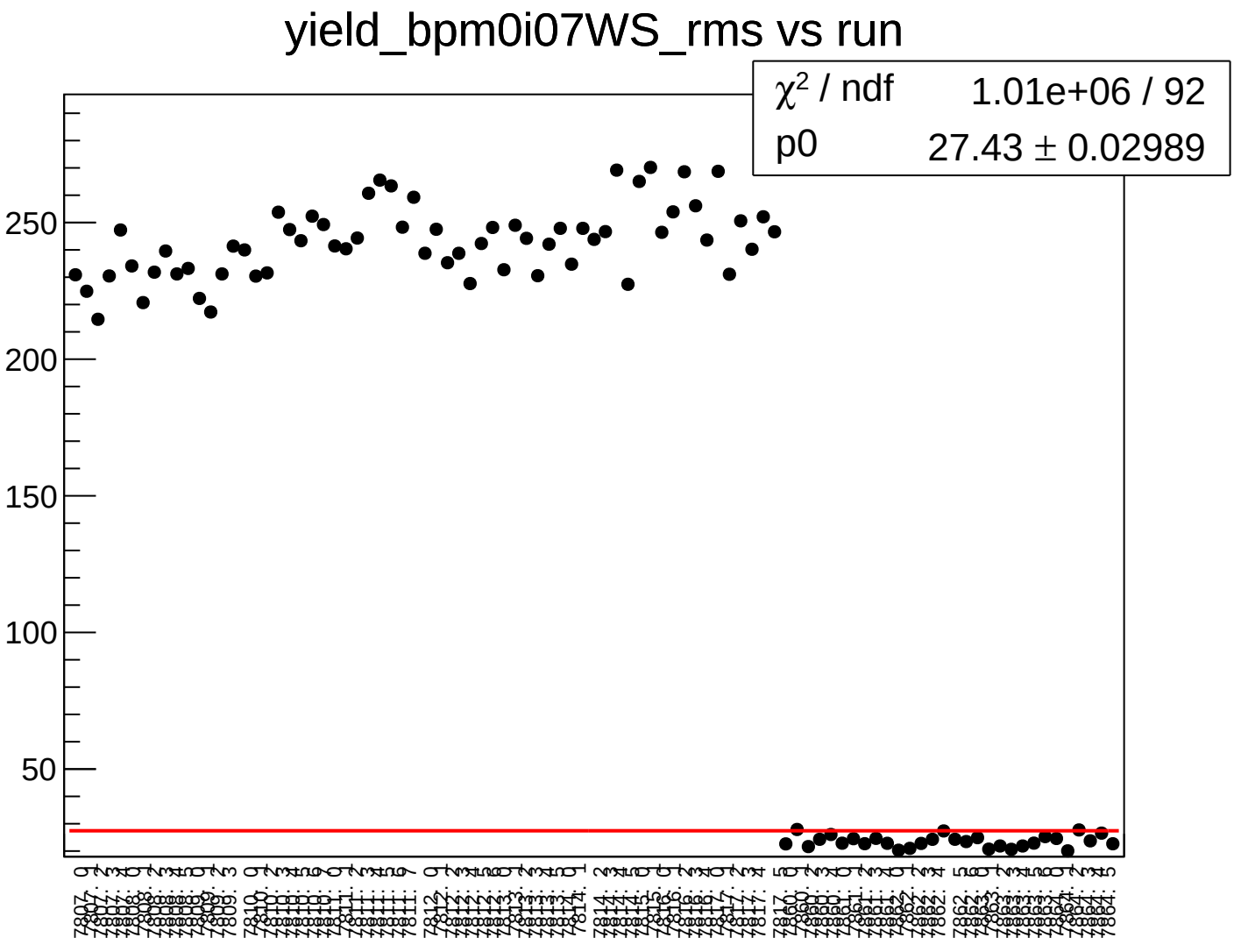

yield_bpm0i02aWS_rms vs run
χ² / ndf 7059 / 92
p0 274.6 ± 0.2022
340
320
300
280
260
240

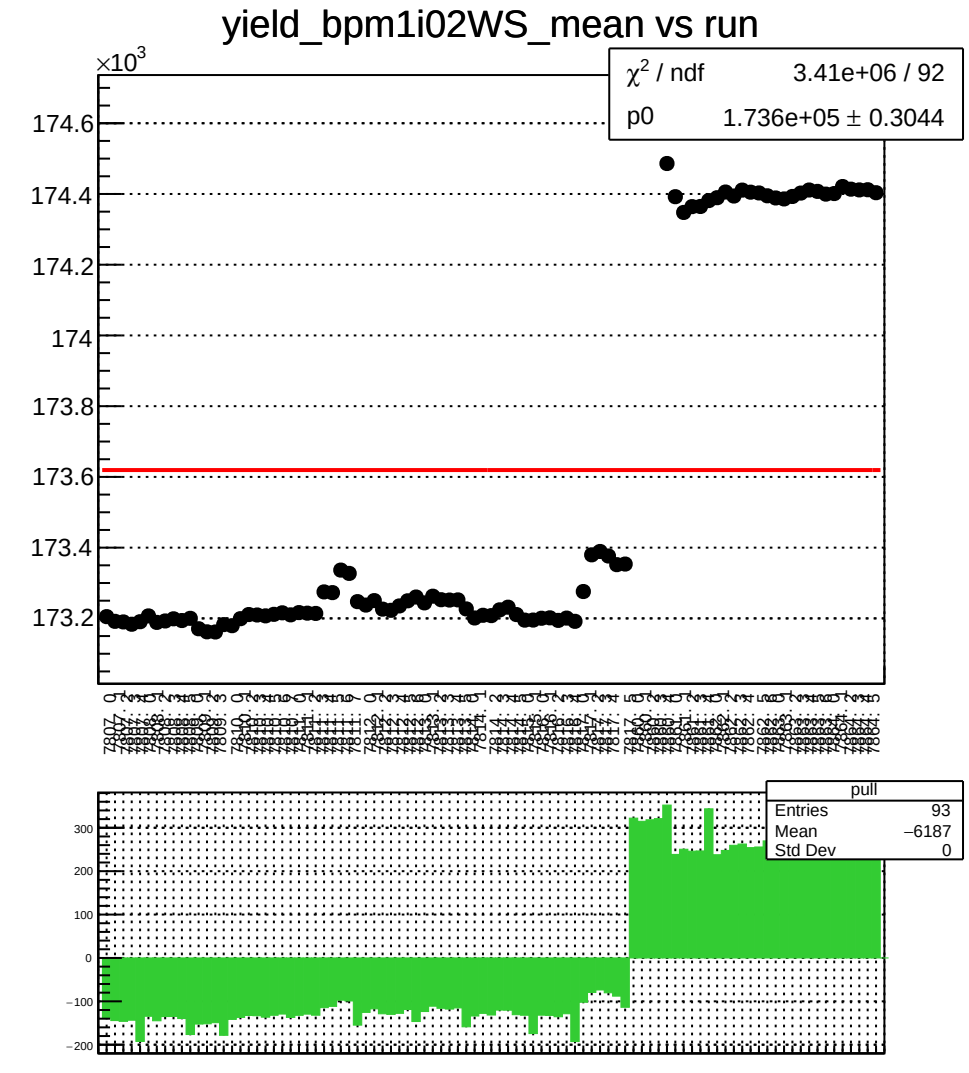

yield_bpm0i05WS_mean vs run
×10^3
χ² / ndf 1.144e+08 / 92
p0 1.362e+05 ± 0.2573
141
140
139
138
137
136
135
134
pull
Entries 93
Mean 346.9
Std Dev 0
2000
1500
1000
500
0
−500
−1000
pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

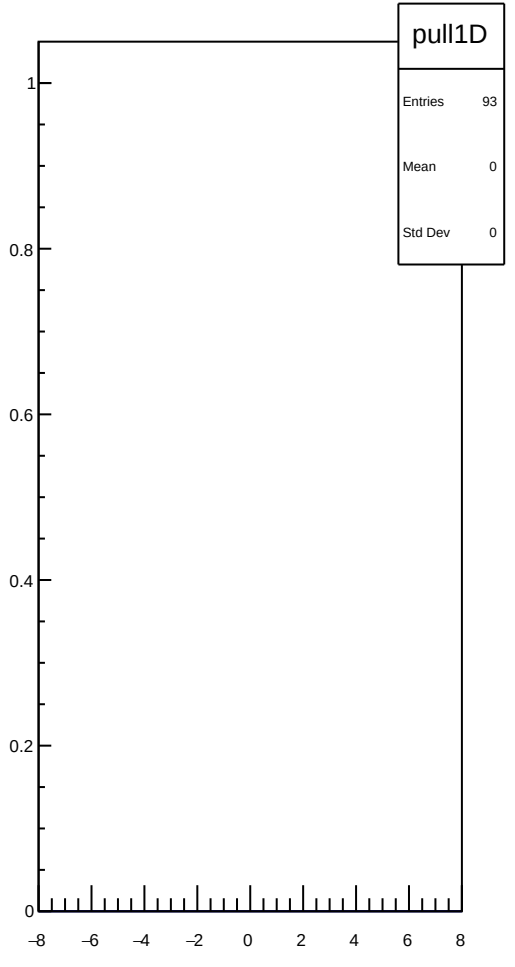

yield_bpm0i05WS_rms vs run
χ² / ndf 1.719e+04 / 92
p0 246.5 ± 0.182
320
300
280
260
240
220
200

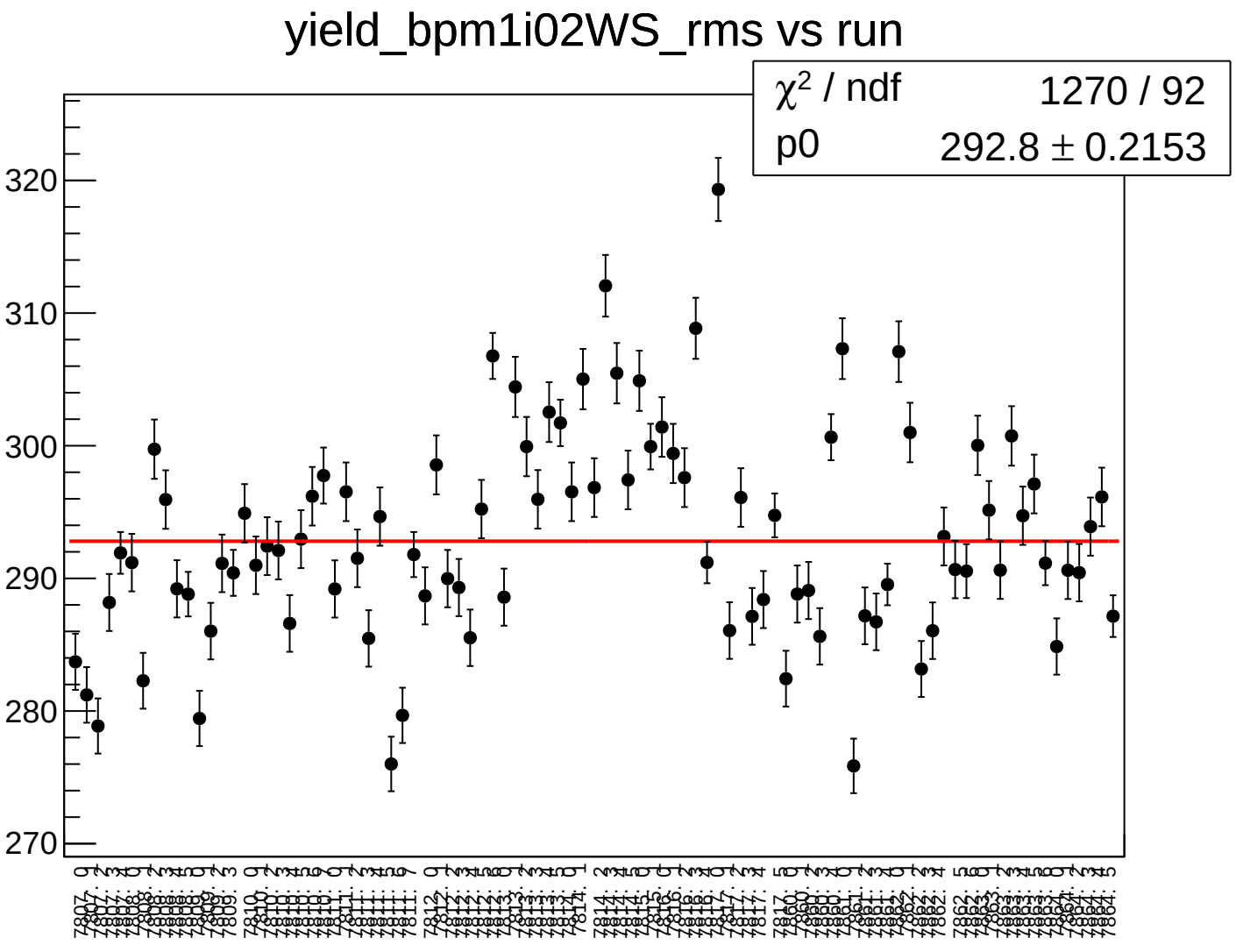

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 2.295e+11 / 92
p0 −1.086e+04 ± 0.04227
pull
Entries 93
Mean 26.17
Std Dev 10.33

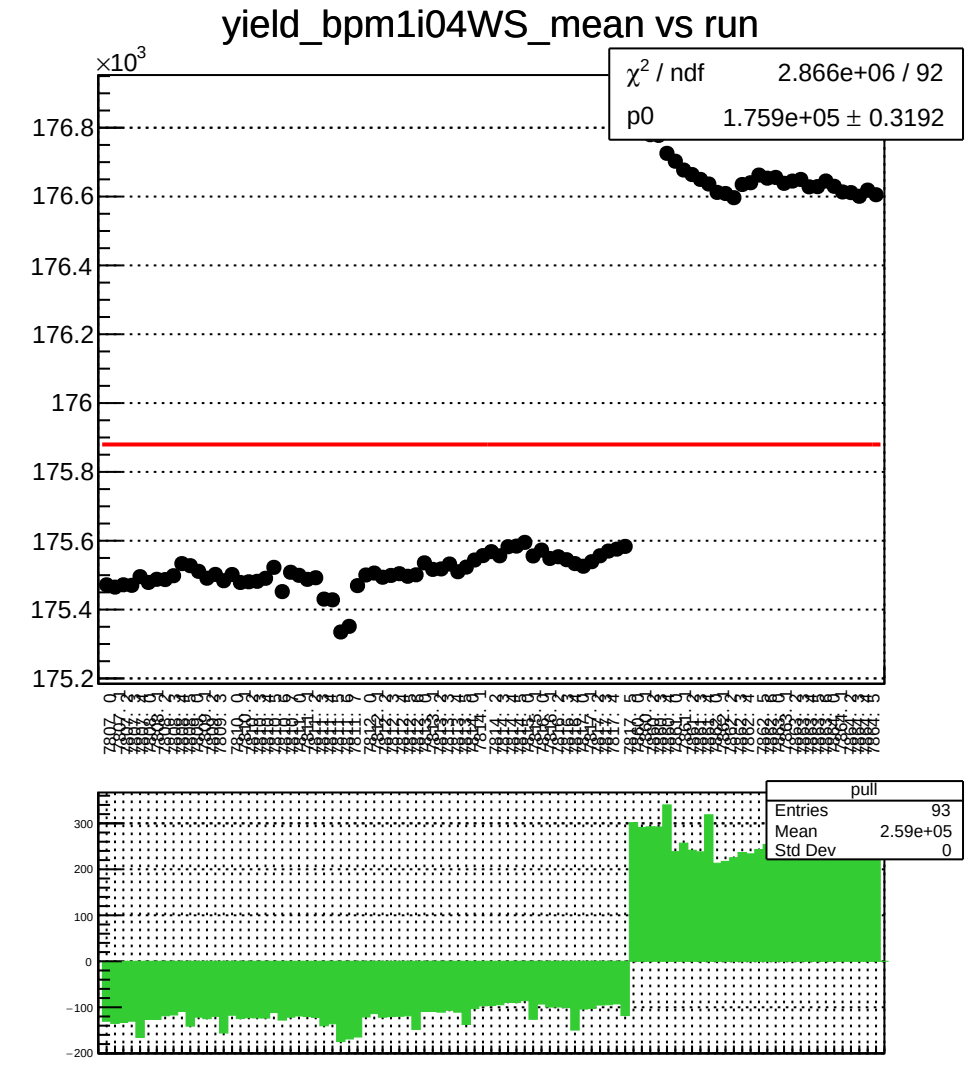

pull1D
Entries 93
Mean 0
Std Dev 0

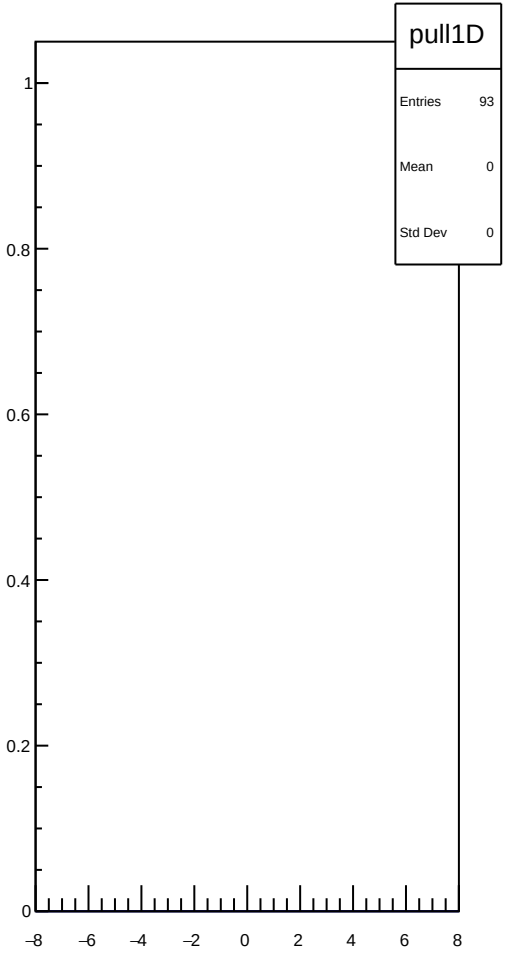

yield_bpm0i07WS_rms vs run
χ² / ndf 1.01e+06 / 92
p0 27.43 ± 0.02989
250
200
150
100
50

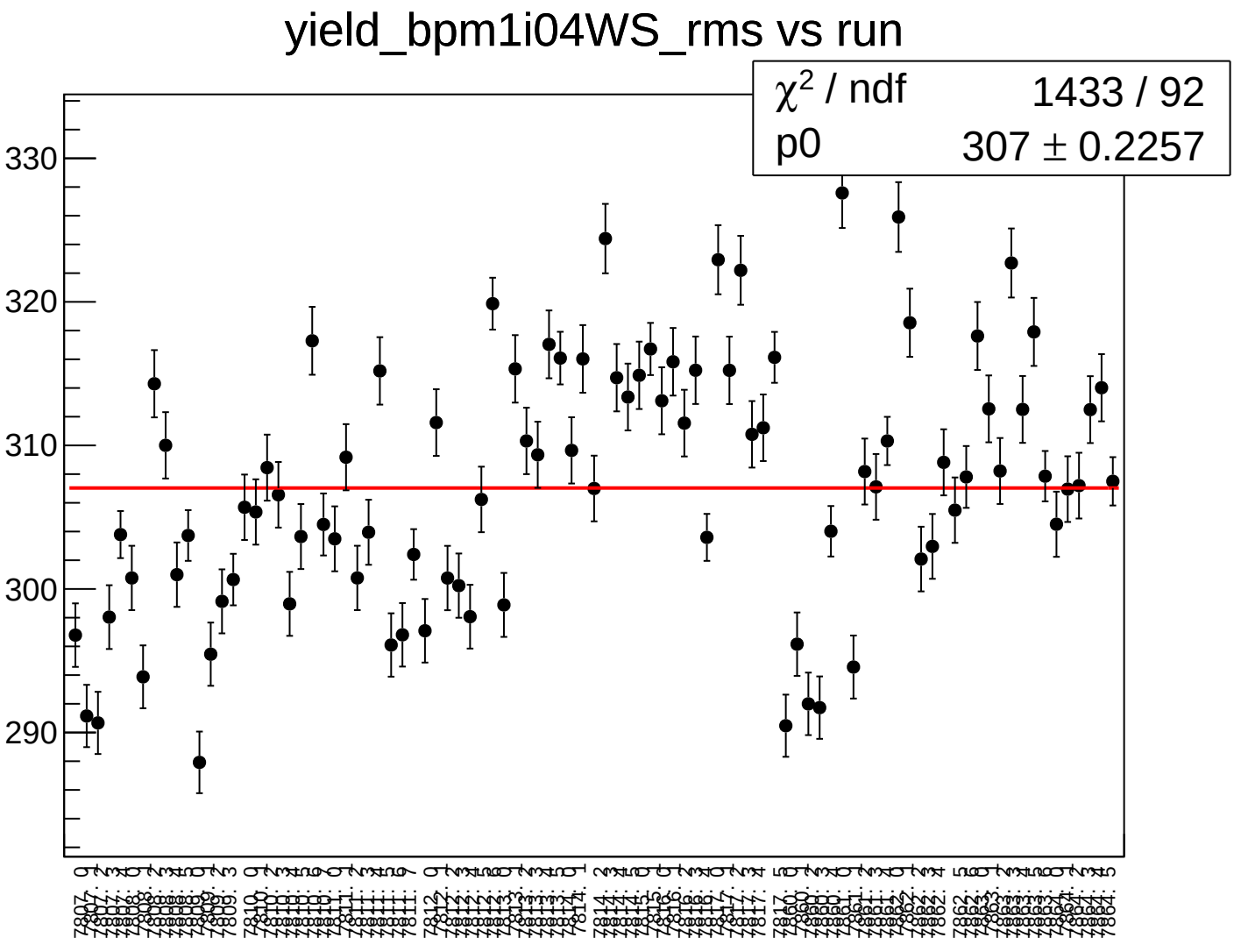

yield_bpm1i02WS_mean vs run
×10^3
χ² / ndf 3.41e+06 / 92
p0 1.736e+05 ± 0.3044
174.6
174.4
174.2
174
173.8
173.6
173.4
173.2
pull
Entries 93
Mean −6187
Std Dev 0
300
200
100
0
−100
−200

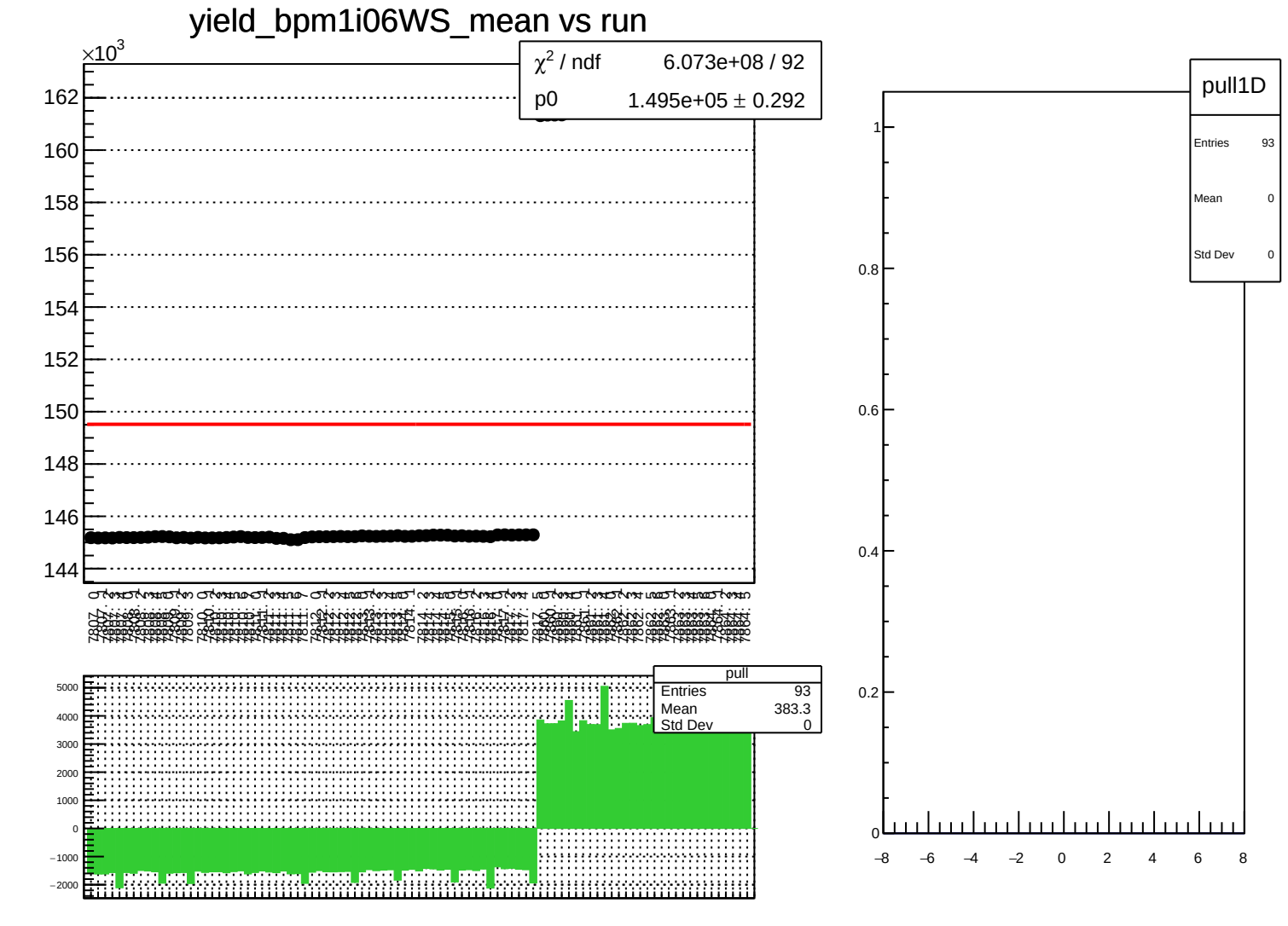

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

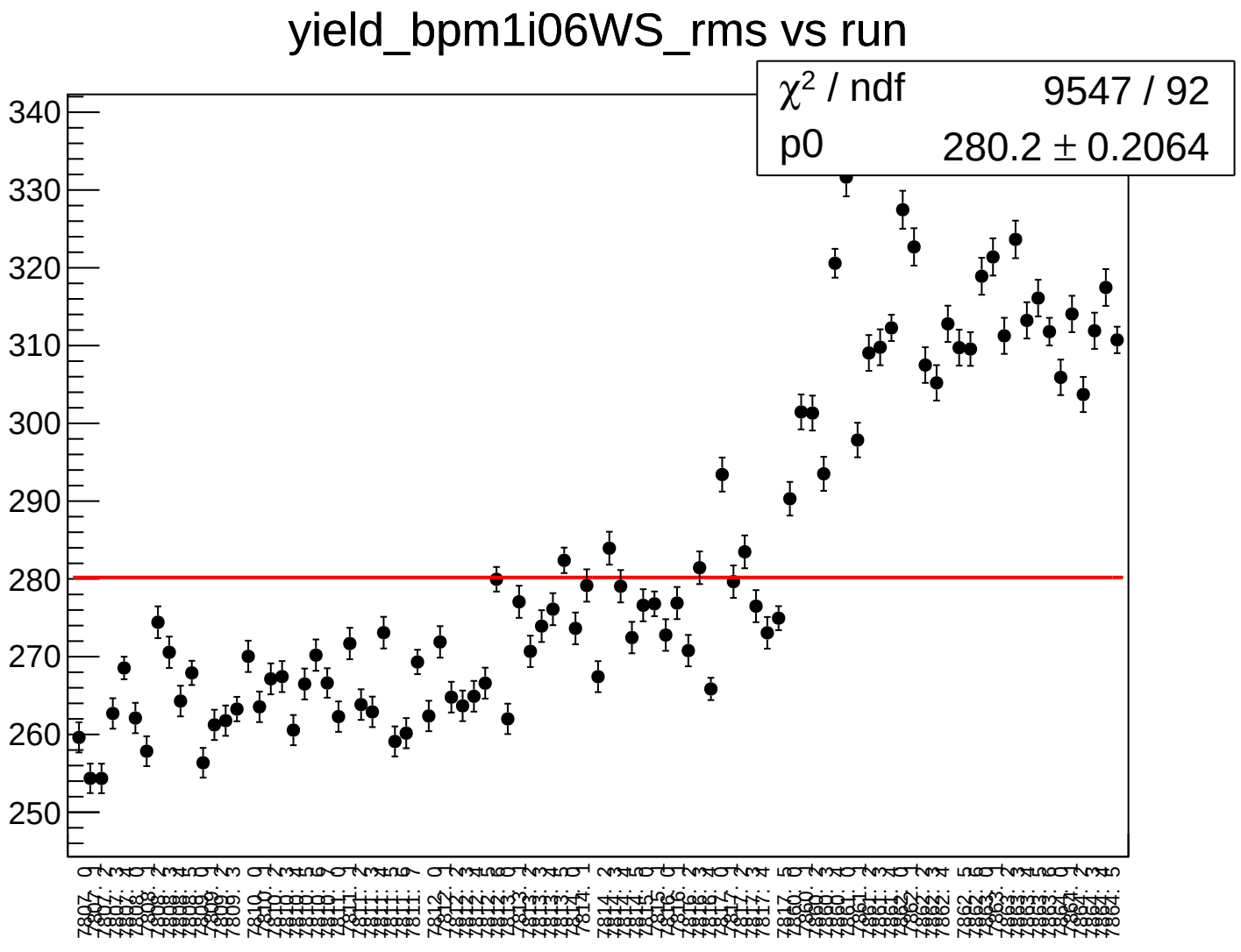

yield_bpm1i02WS_rms vs run
χ² / ndf 1270 / 92
p0 292.8 ± 0.2153
320
310
300
290
280
270

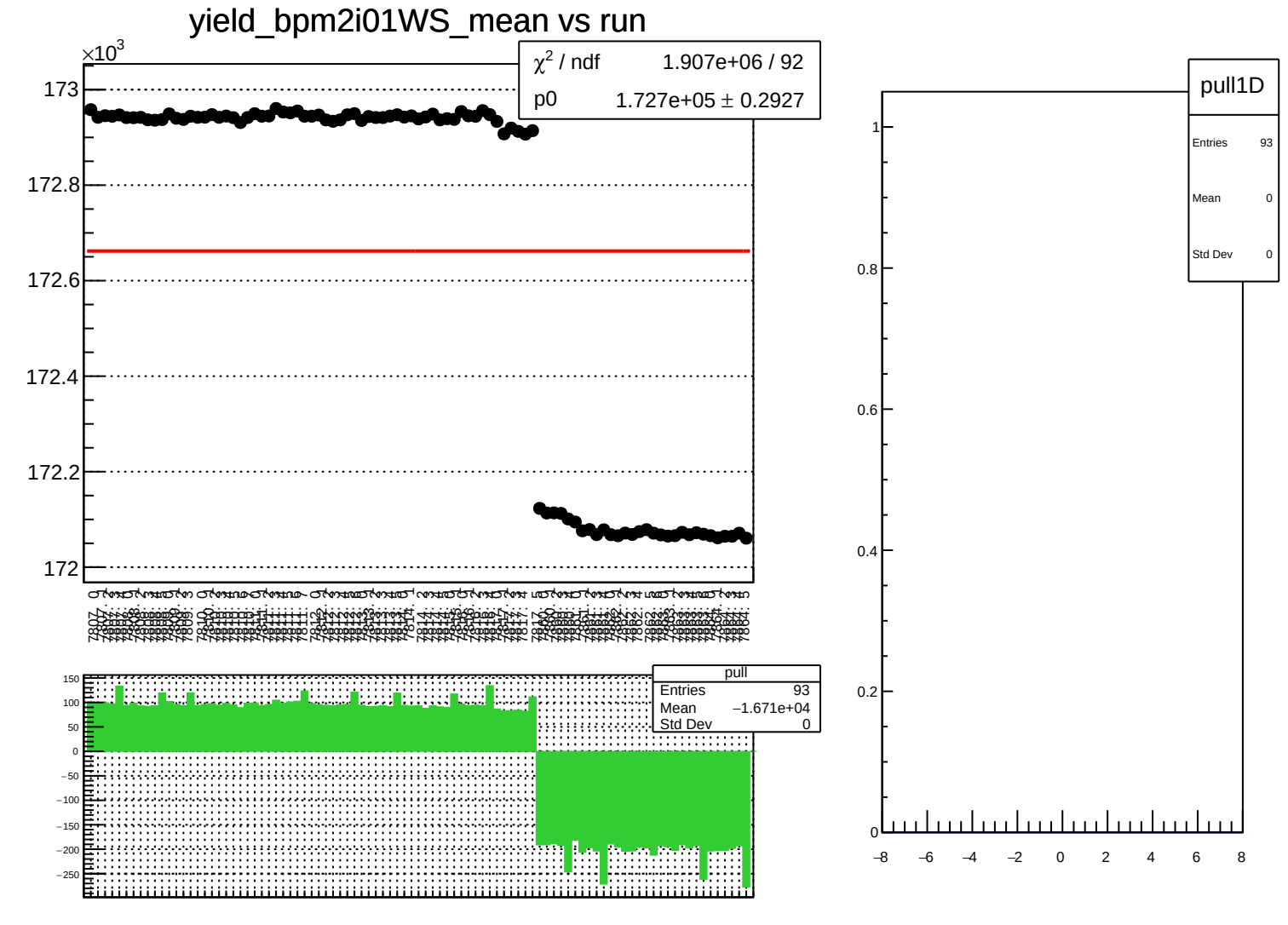

yield_bpm1i04WS_mean vs run
×10^3
χ² / ndf 2.866e+06 / 92
p0 1.759e+05 ± 0.3192
176.8
176.6
176.4
176.2
176
175.8
175.6
175.4
175.2
pull
Entries 93
Mean 2.59e+05
Std Dev 0
300
200
100
0
−100
−200

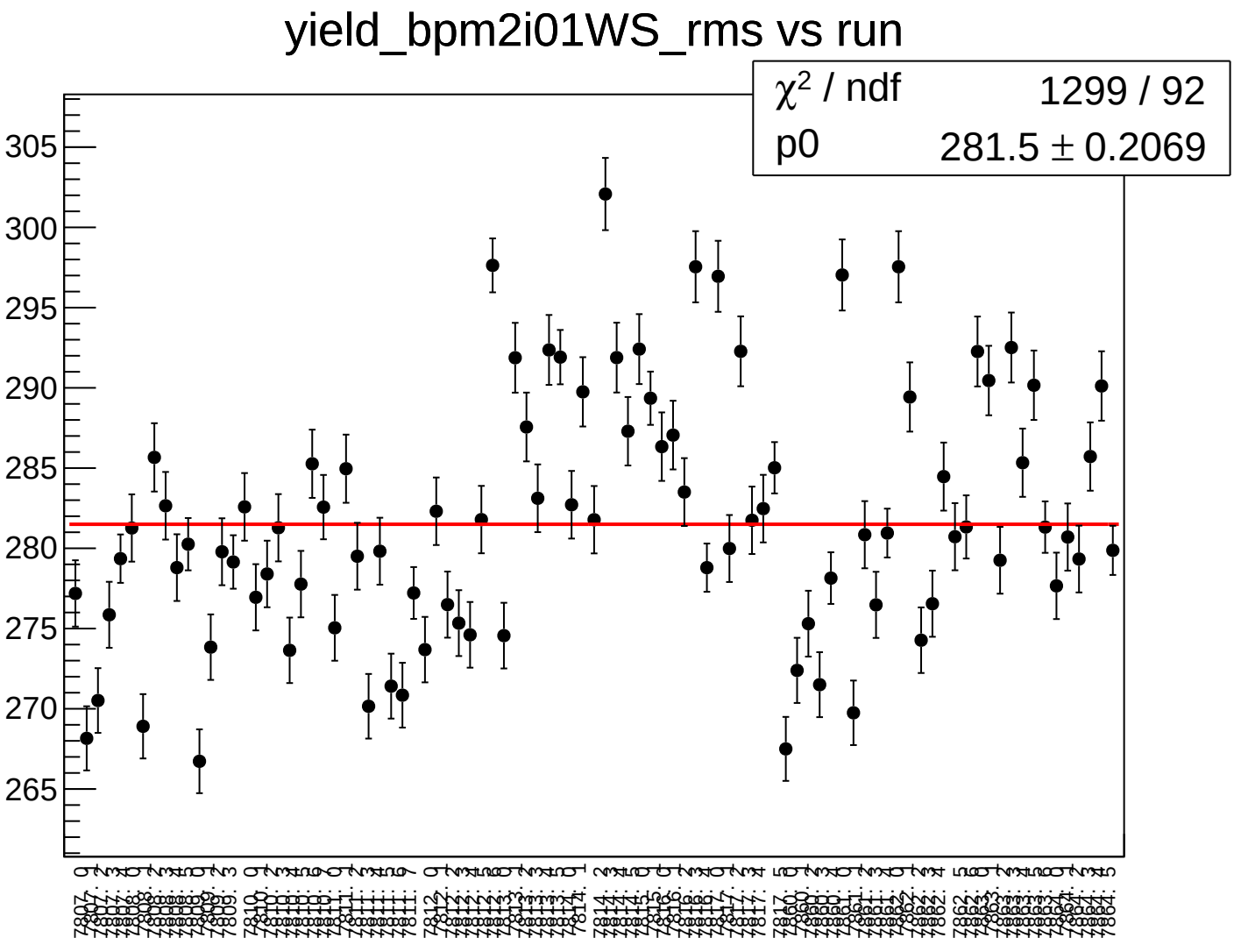

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

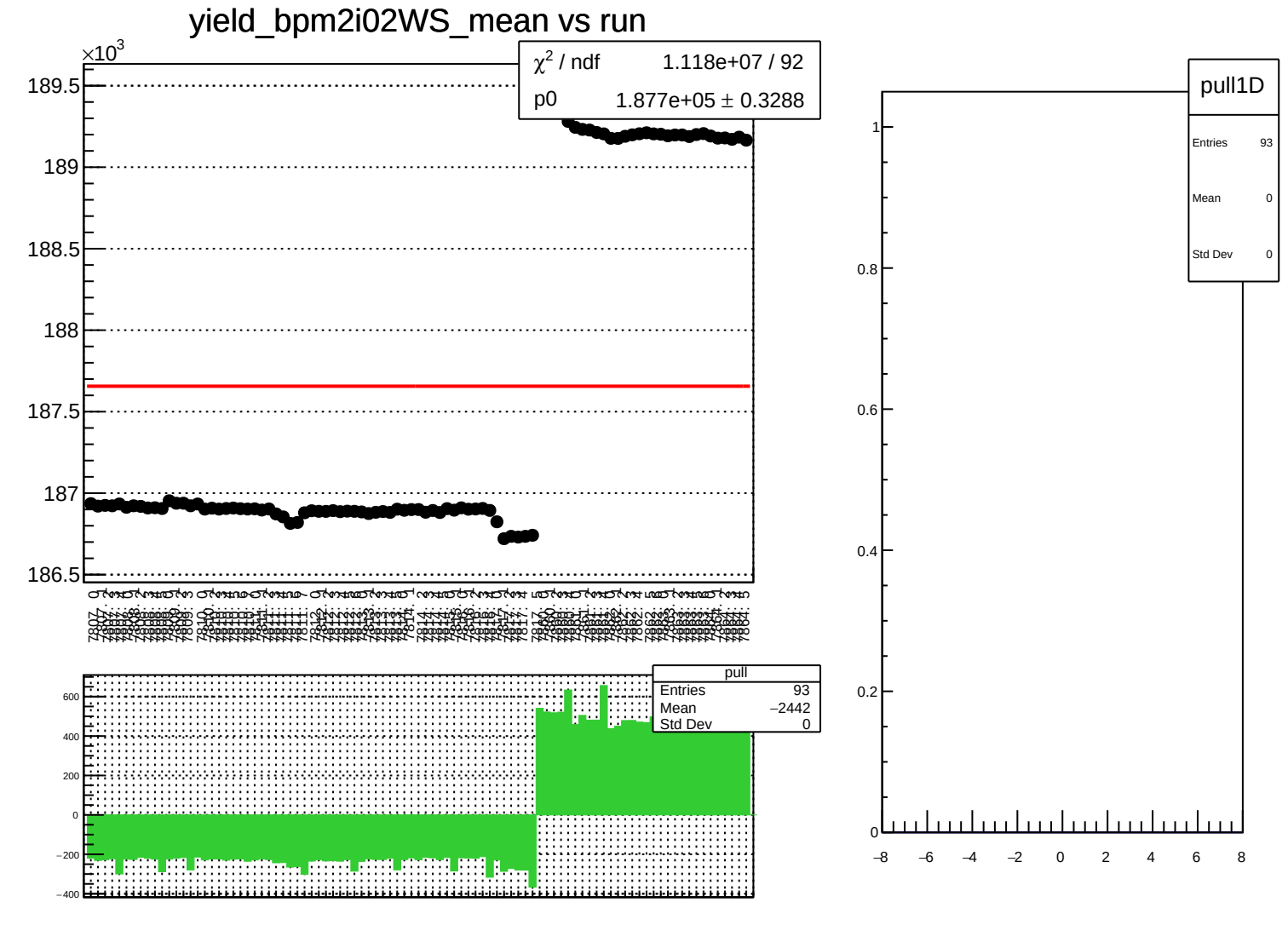

yield_bpm1i04WS_rms vs run
χ^2 / ndf 1433 / 92
p0 307 ± 0.2257
330
320
310
300
290

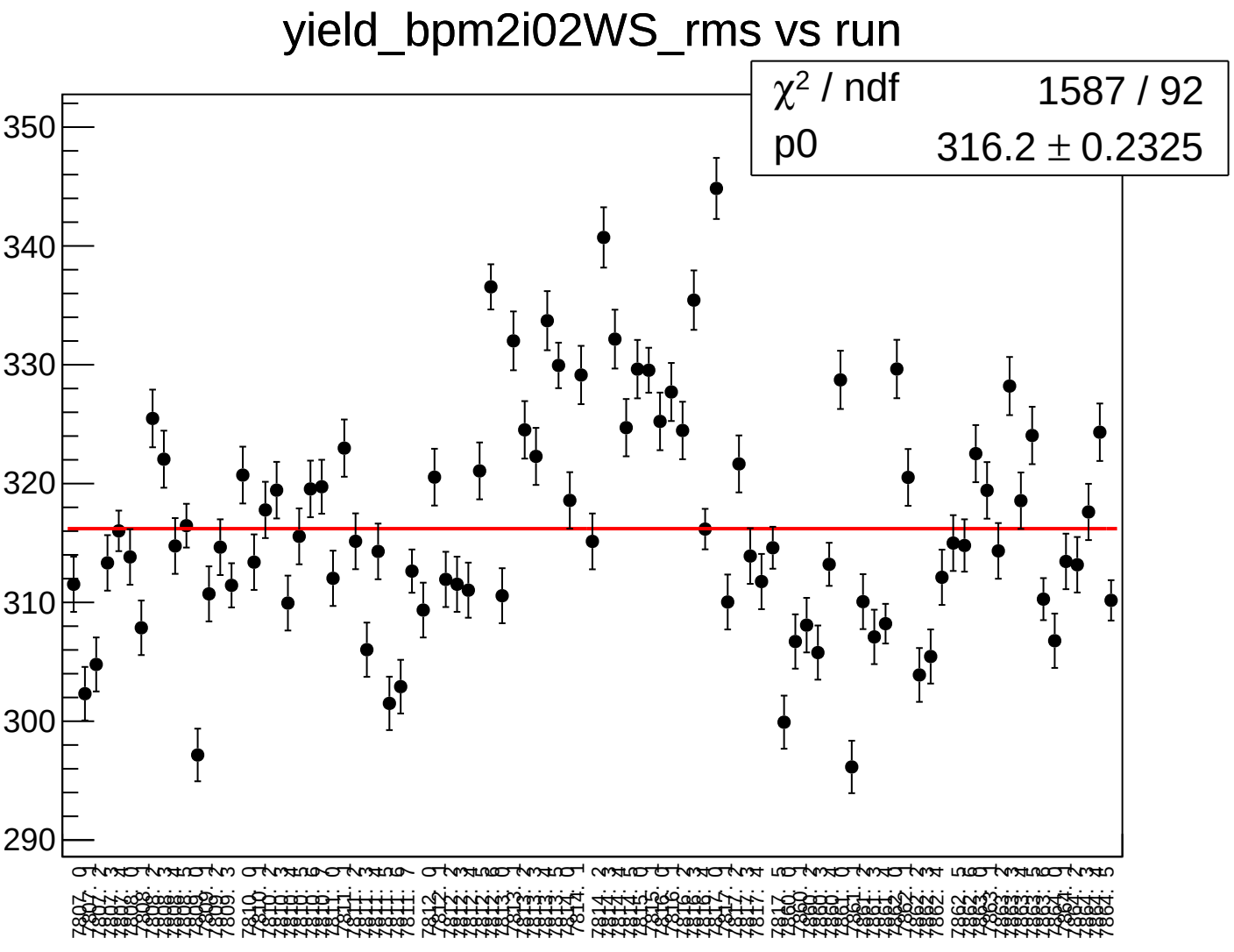

yield_bpm1i06WS_mean vs run
×10^3
χ² / ndf 6.073e+08 / 92
p0 1.495e+05 ± 0.292
pull
Entries 93
Mean 383.3
Std Dev 0
pull1D
Entries 93
Mean 0
Std Dev 0

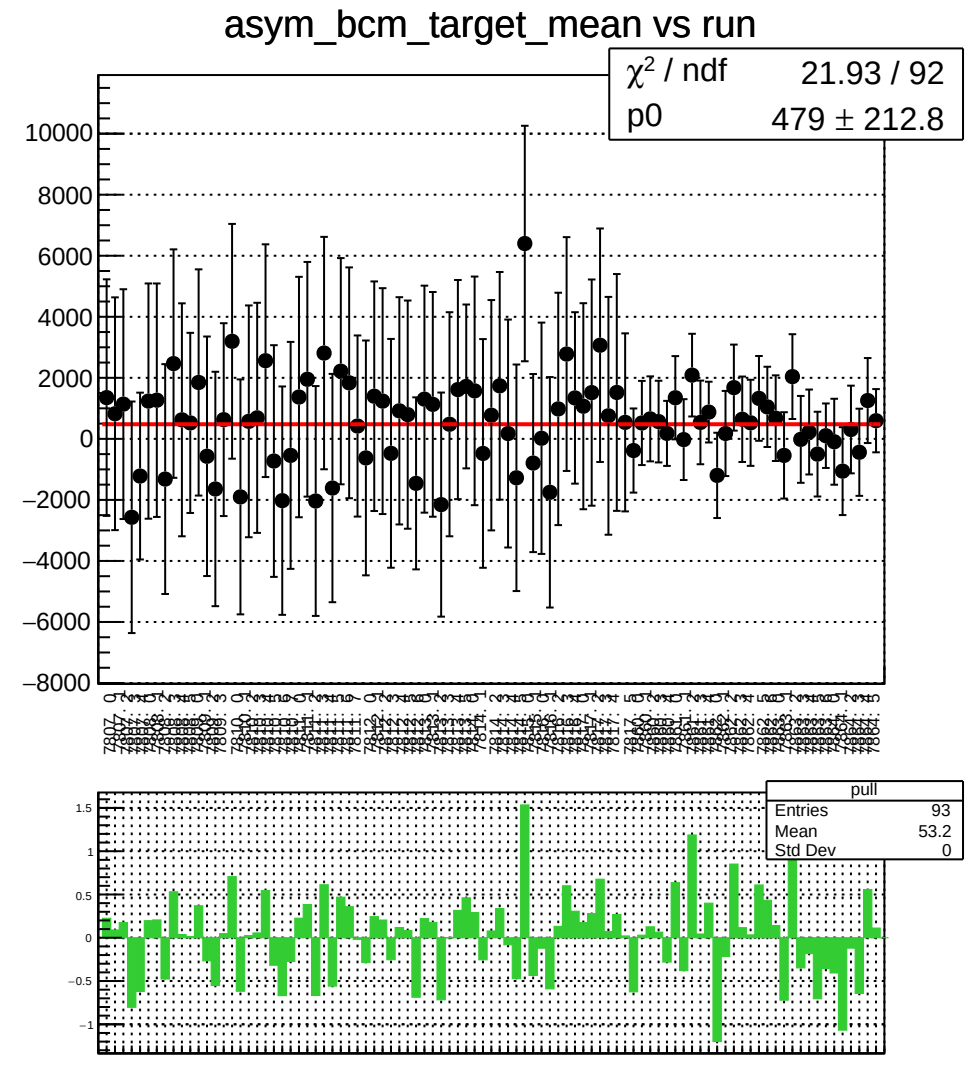

yield_bpm1i06WS_rms vs run
χ² / ndf 9547 / 92
p0 280.2 ± 0.2064
340
330
320
310
300
290
280
270
260
250

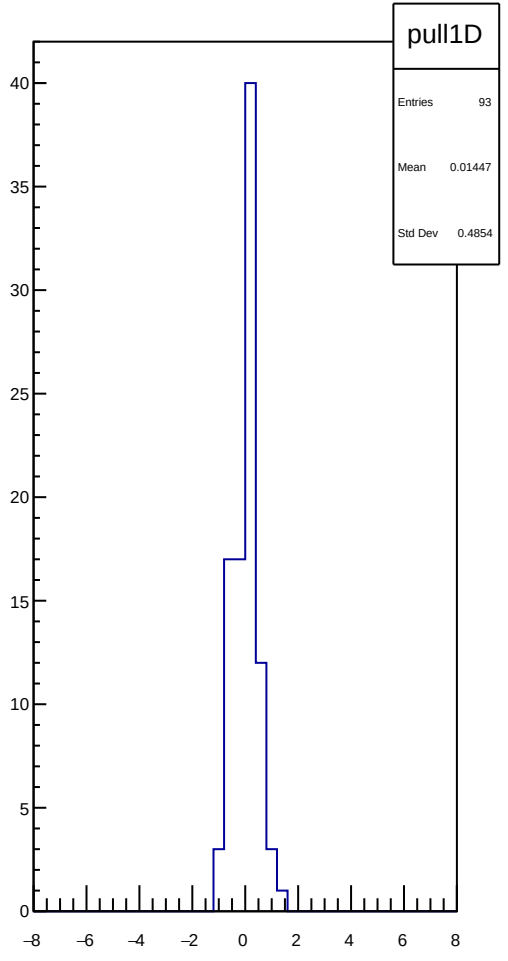

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 1.907e+06 / 92
p0 1.727e+05 ± 0.2927
173
172.8
172.6
172.4
172.2
172
pull
Entries 93
Mean −1.671e+04
Std Dev 0
150
100
50
0
−50
−100
−150
−200
−250
pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

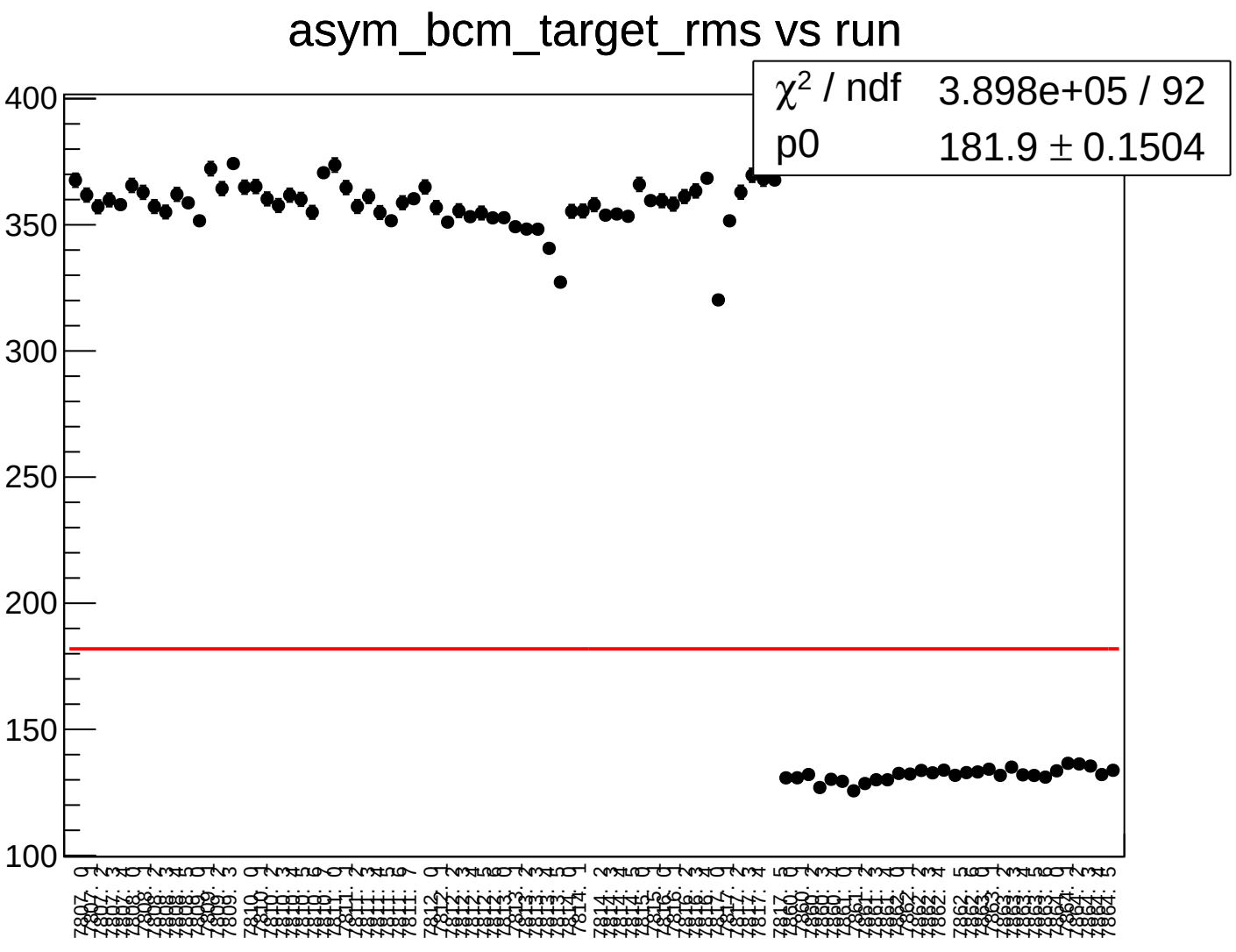

yield_bpm2i01WS_rms vs run
χ² / ndf 1299 / 92
p0 281.5 ± 0.2069
305
300
295
290
285
280
275
270
265

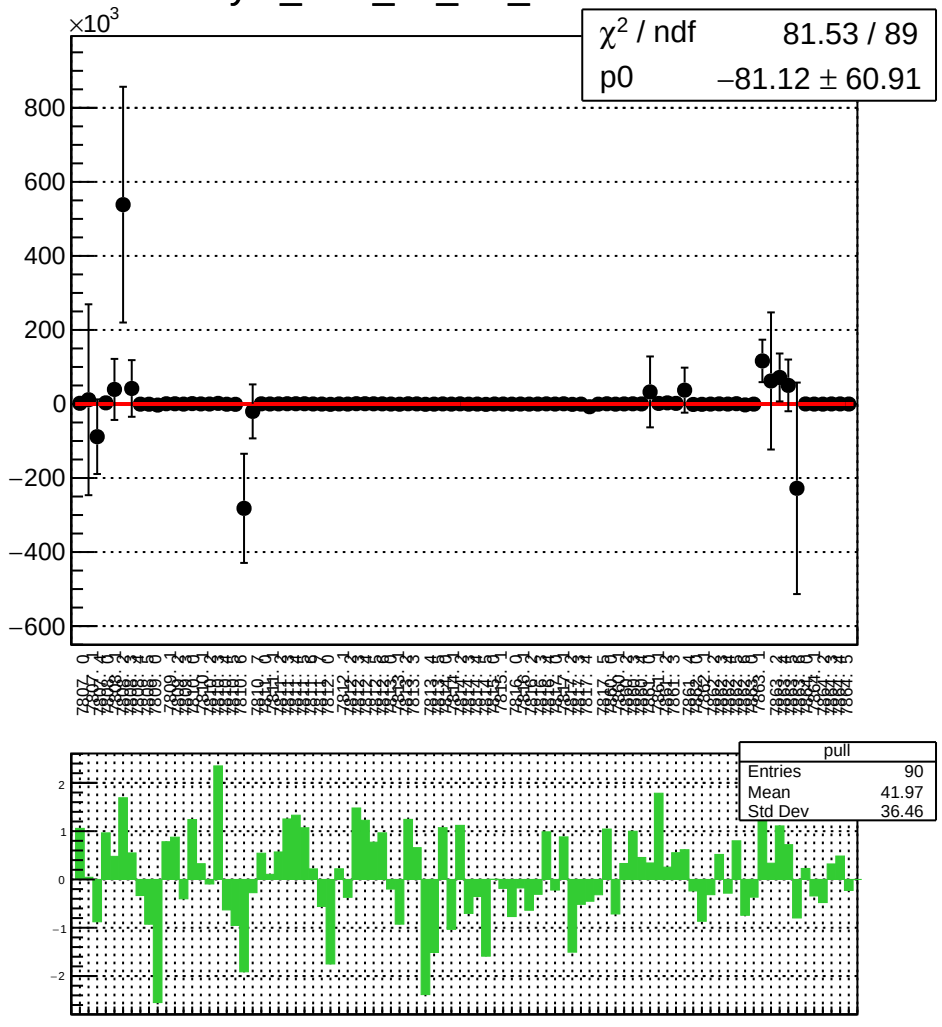

yield_bpm2i02WS_mean vs run
×10^3
χ² / ndf 1.118e+07 / 92
p0 1.877e+05 ± 0.3288
189.5
189
188.5
188
187.5
187
186.5
pull
Entries 93
Mean −2442
Std Dev 0
600
400
200
0
−200
−400
pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

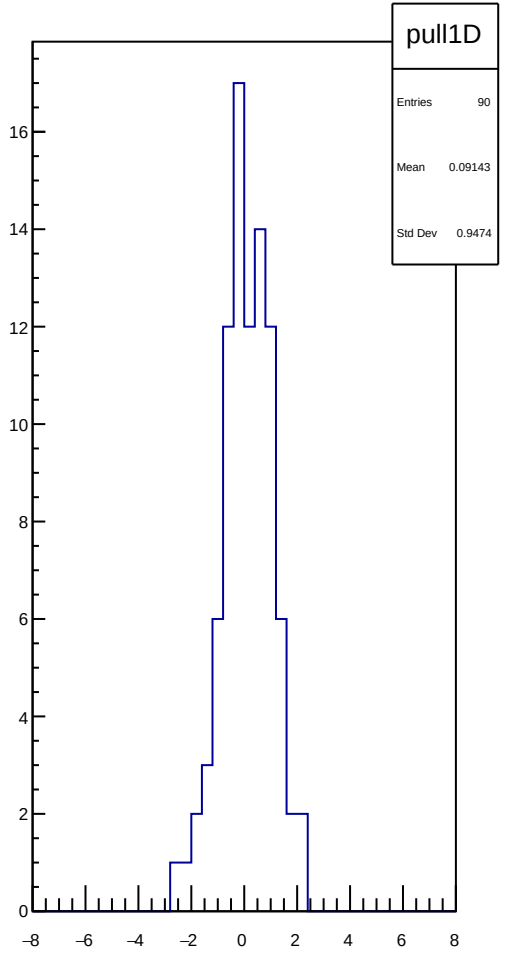

yield_bpm2i02WS_rms vs run
χ² / ndf 1587 / 92
p0 316.2 ± 0.2325
350
340
330
320
310
300
290

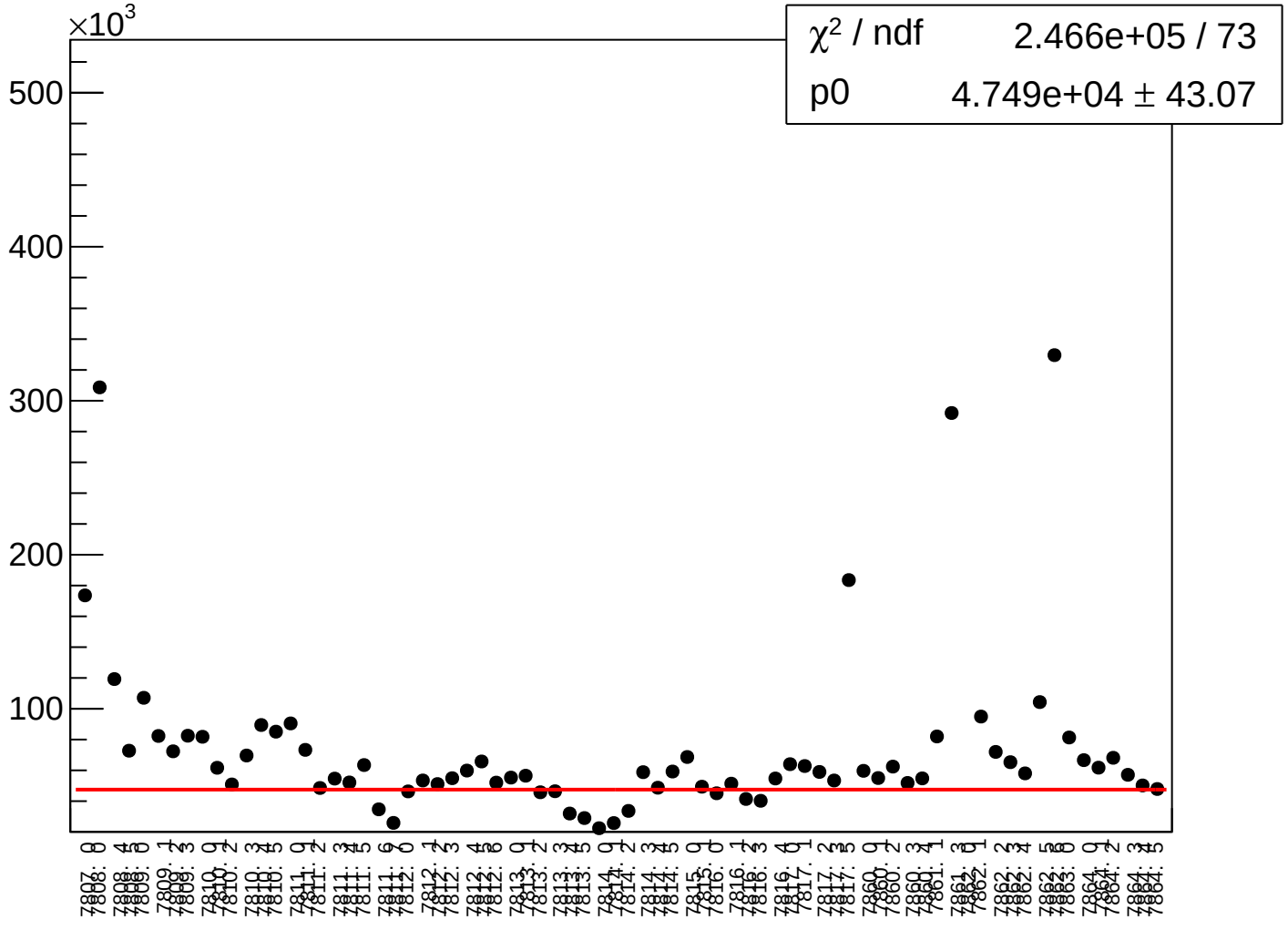

asym_bcm_target_mean vs run
χ² / ndf 21.93 / 92
p0 479 ± 212.8
pull
Entries 93
Mean 53.2
Std Dev 0

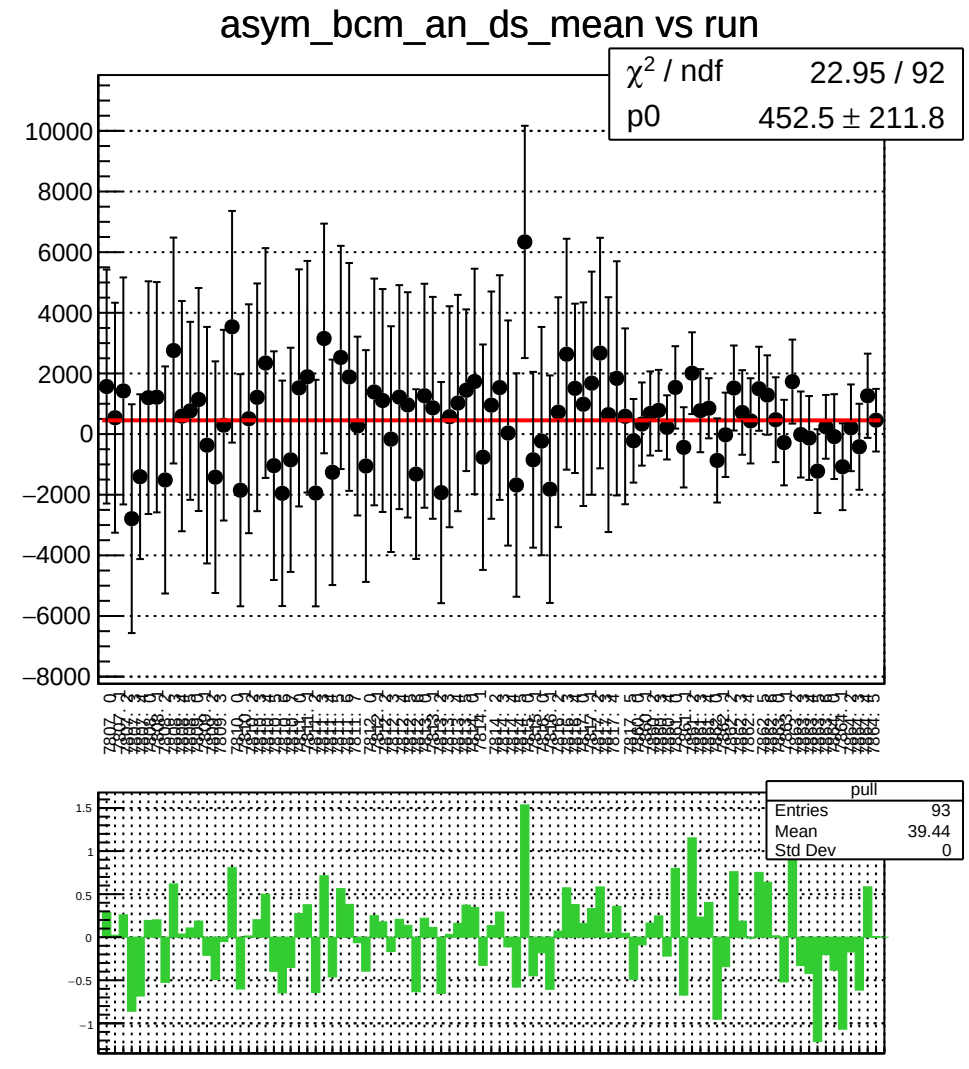

pull1D
Entries 93
Mean 0.01447
Std Dev 0.4854

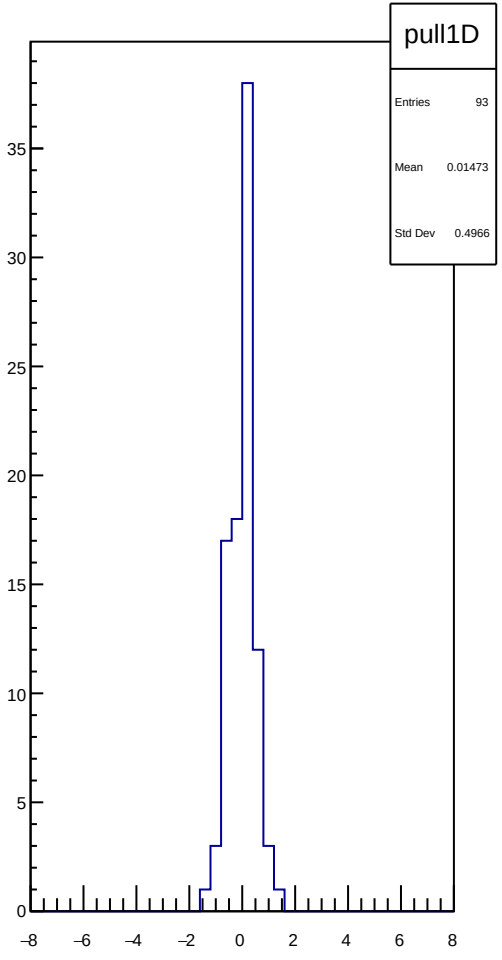

asym_bcm_target_rms vs run
χ² / ndf 3.898e+05 / 92
p0 181.9 ± 0.1504
400
350
300
250
200
150
100

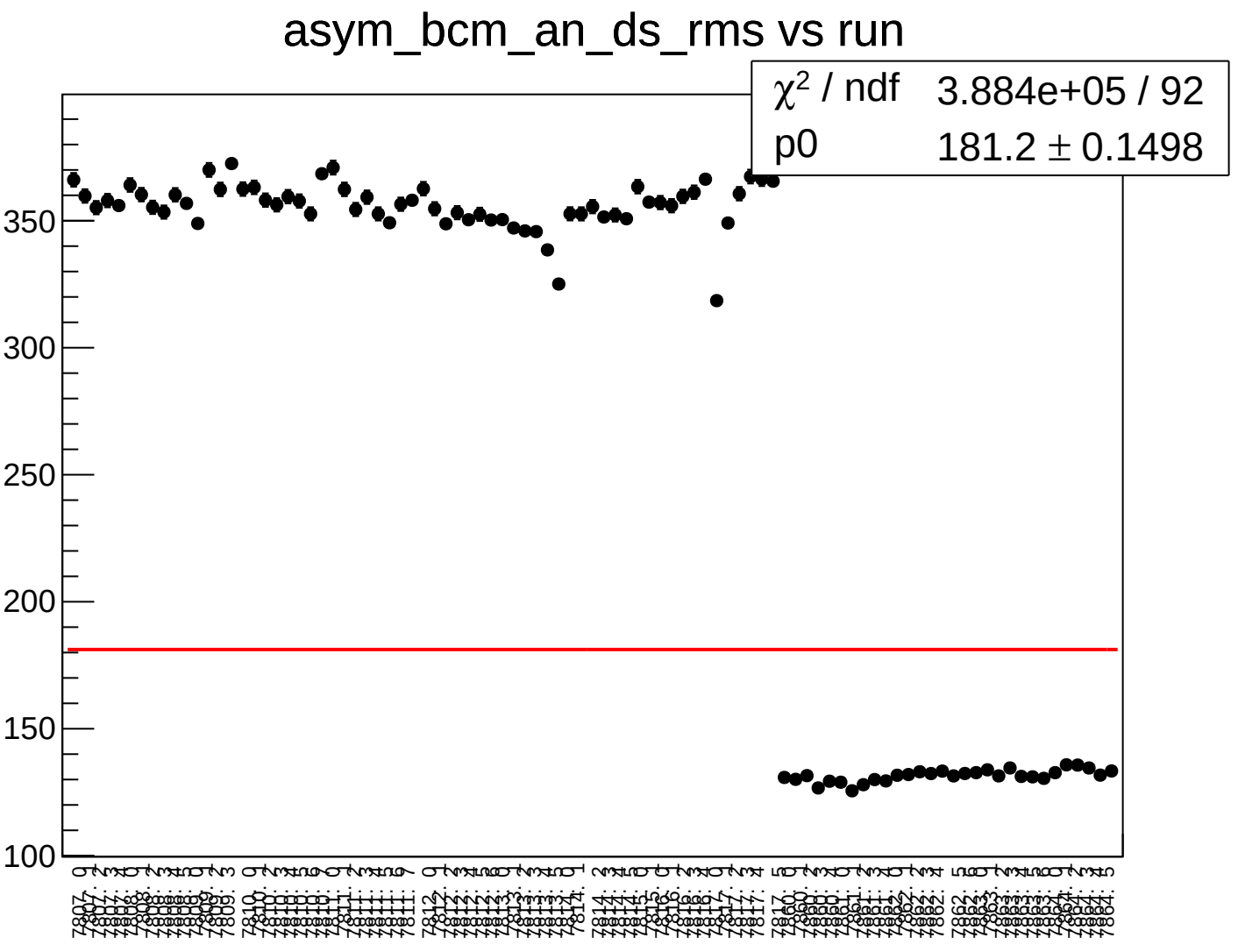

asym_bcm_an_diff_mean vs run
χ² / ndf 81.53 / 89
p0 −81.12 ± 60.91
×10³
pull
Entries 90
Mean 41.97
Std Dev 36.46

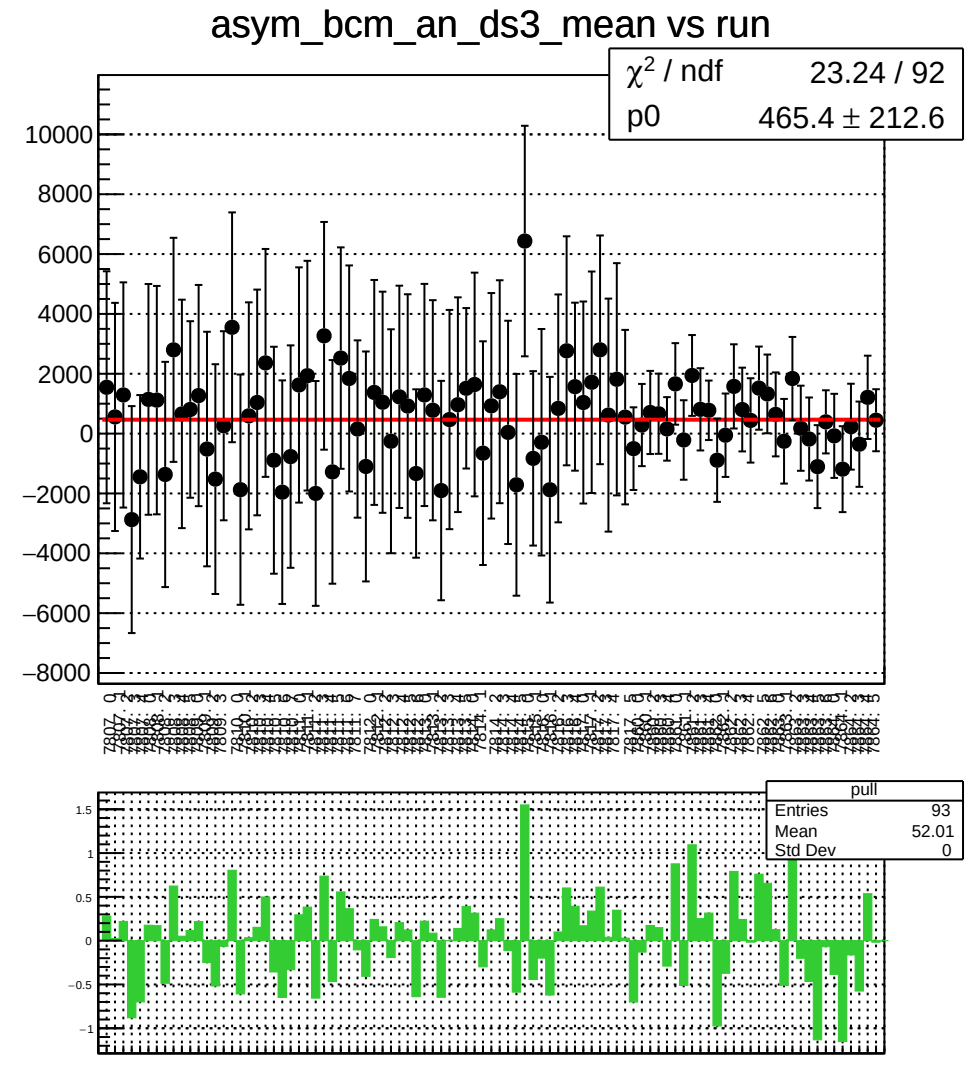

pull1D
Entries 90
Mean 0.09143
Std Dev 0.9474

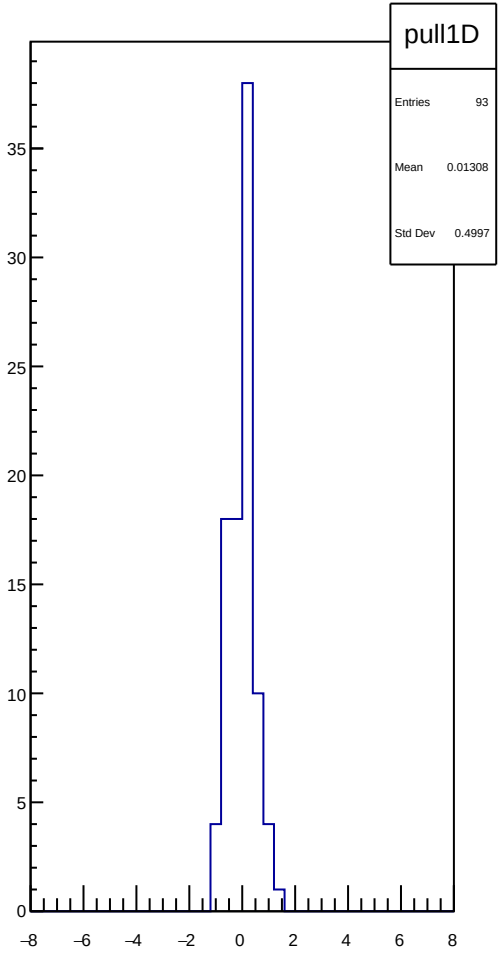

asym_bcm_an_diff_rms vs run
×10^3
500
400
300
200
100
χ² / ndf 2.466e+05 / 73
p0 4.749e+04 ± 43.07

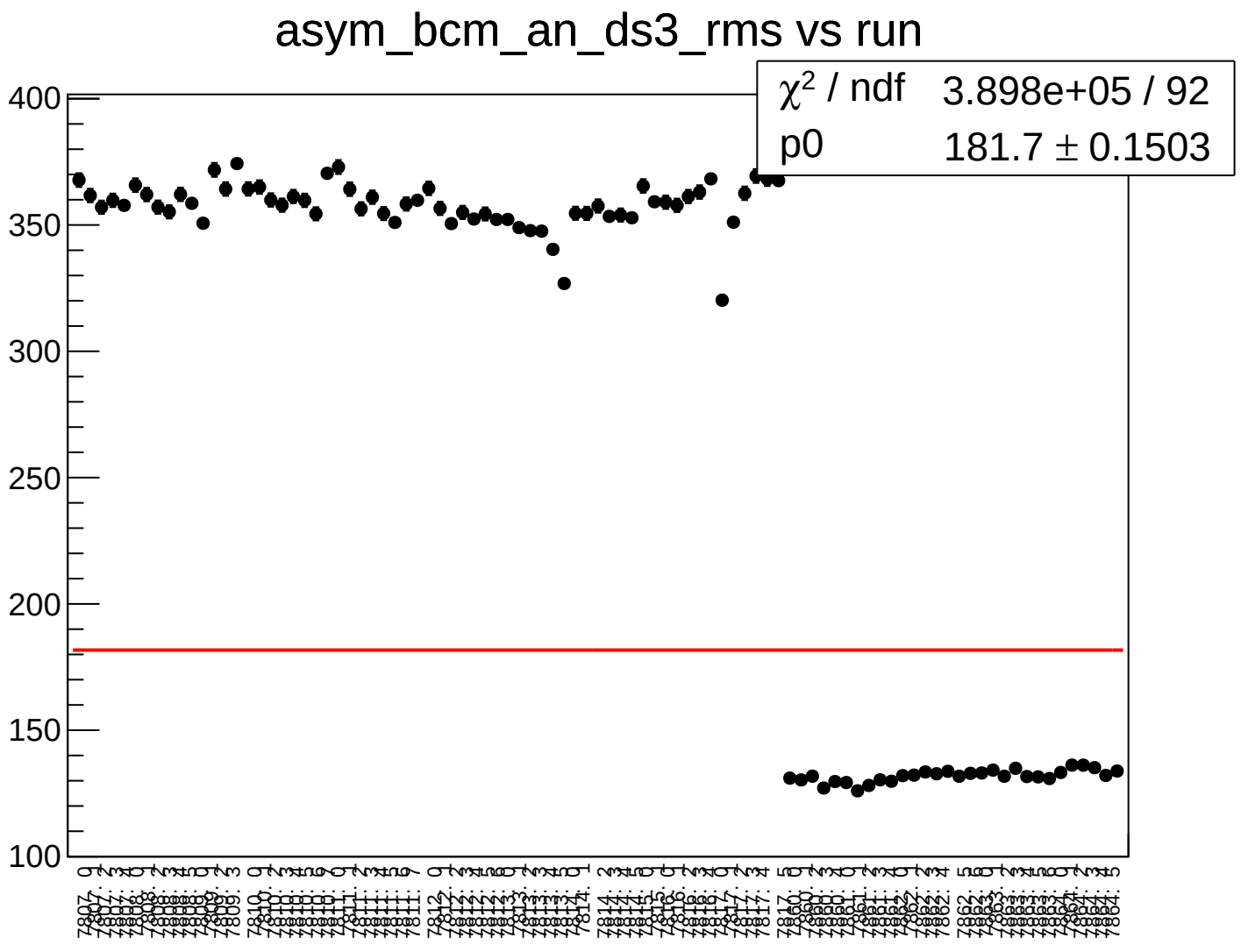

asym_bcm_an_ds_mean vs run
χ² / ndf 22.95 / 92
p0 452.5 ± 211.8
pull
Entries 93
Mean 39.44
Std Dev 0

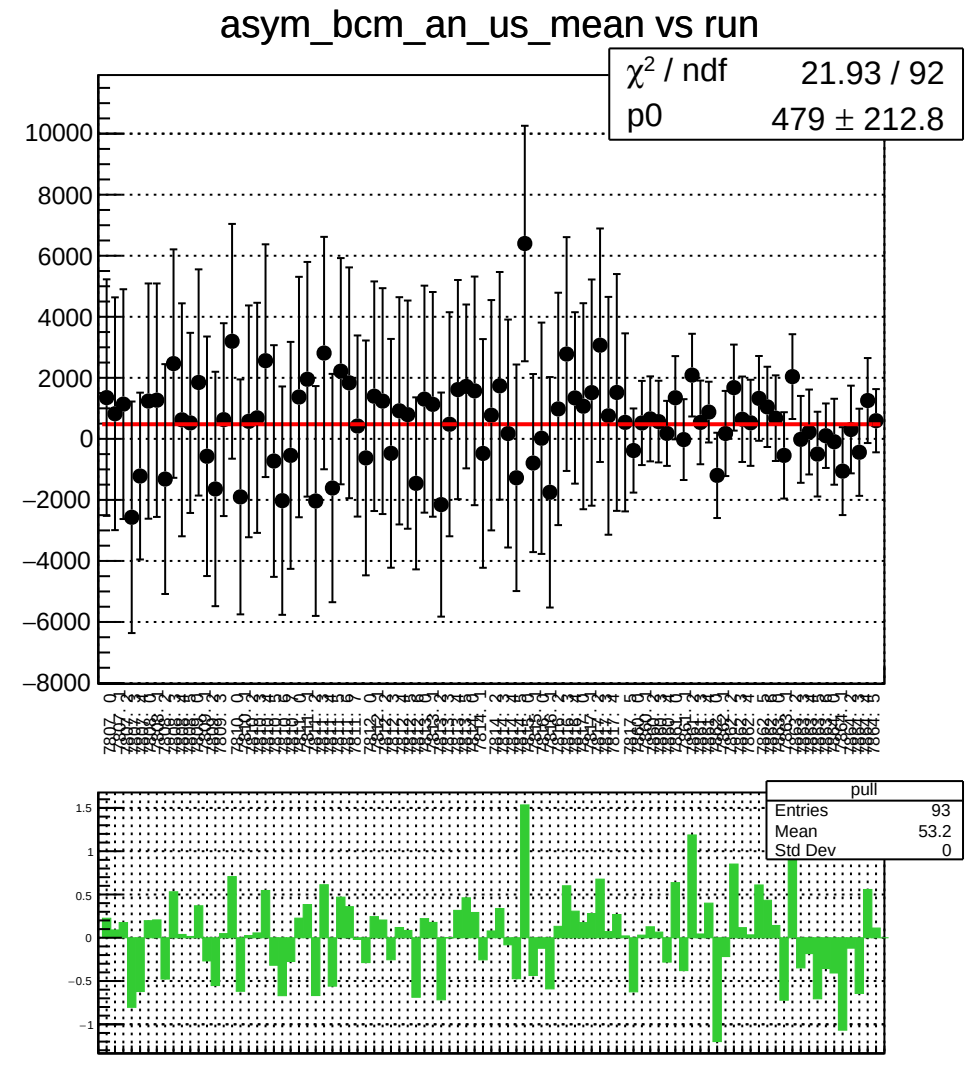

pull1D
Entries 93
Mean 0.01473
Std Dev 0.4966

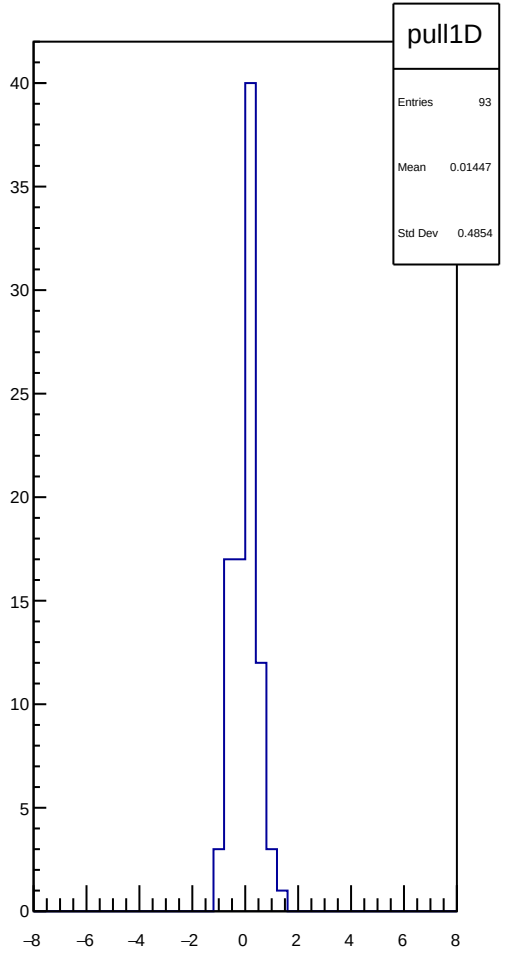

asym_bcm_an_ds_rms vs run
χ^2 / ndf 3.884e+05 / 92
p0 181.2 ± 0.1498
350
300
250
200
150
100

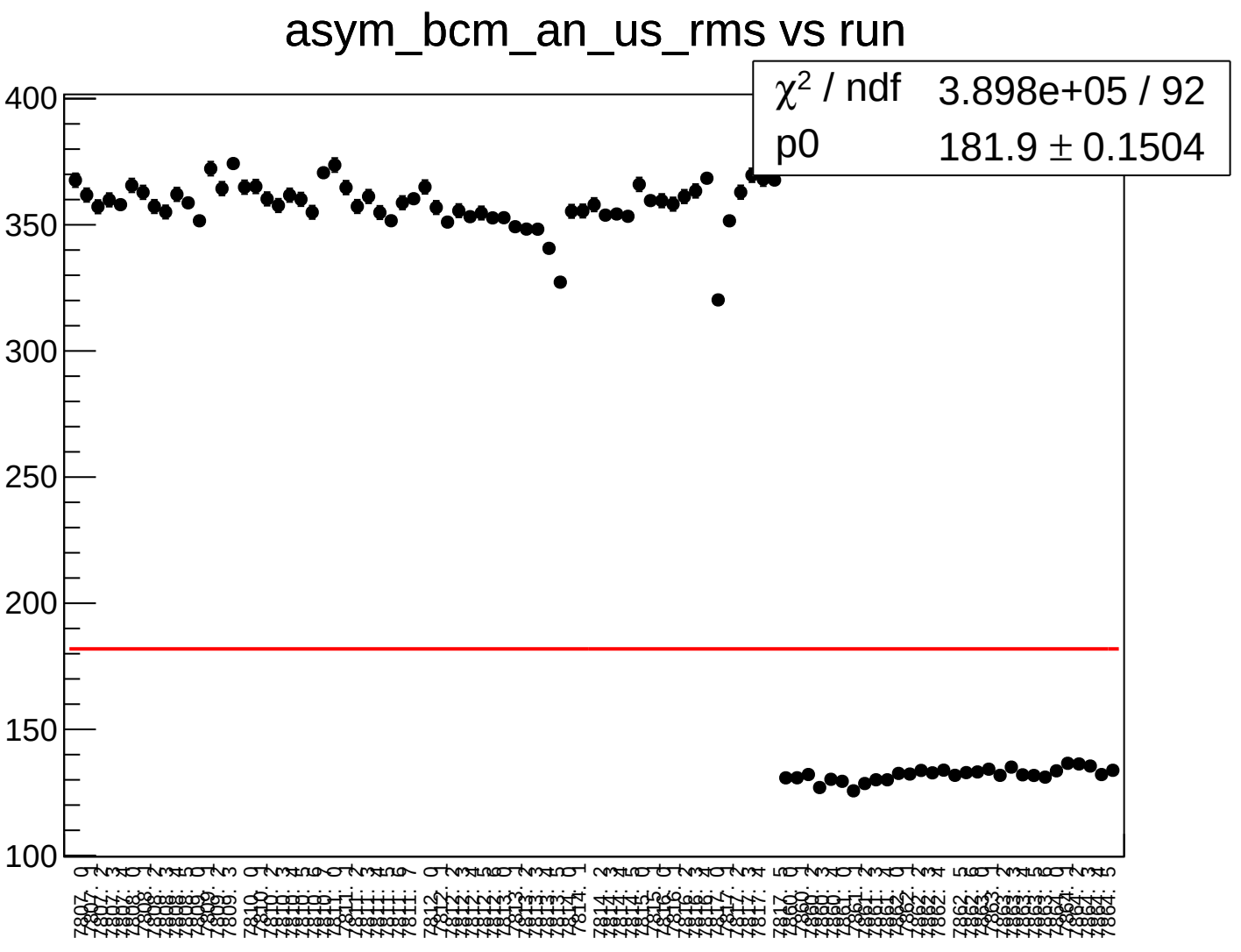

asym_bcm_an_ds3_mean vs run
χ² / ndf 23.24 / 92
p0 465.4 ± 212.6
pull
Entries 93
Mean 52.01
Std Dev 0

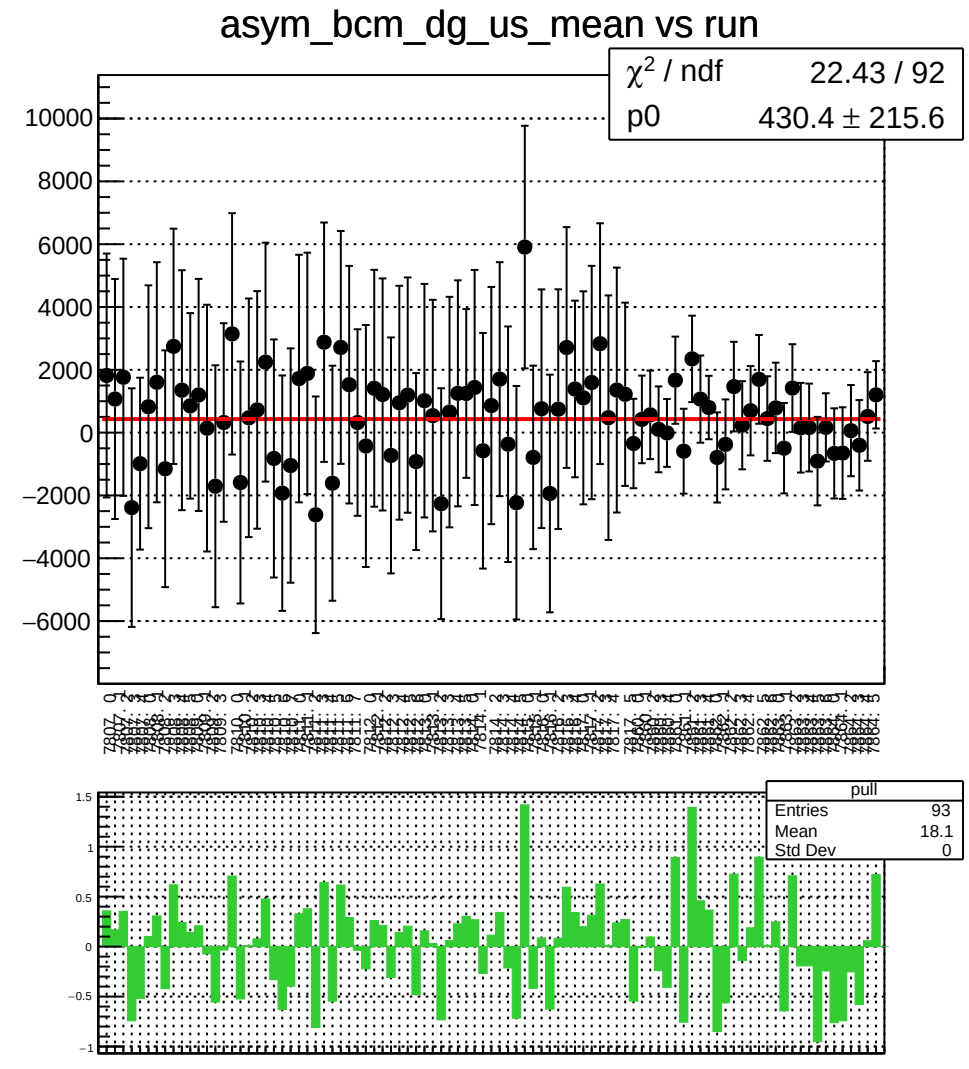

pull1D
Entries 93
Mean 0.01308
Std Dev 0.4997

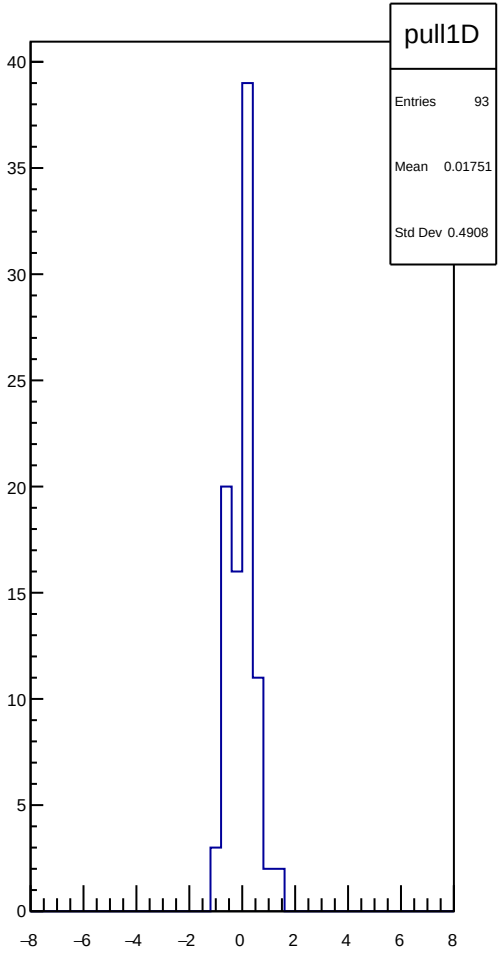

asym_bcm_an_ds3_rms vs run
χ² / ndf 3.898e+05 / 92
p0 181.7 ± 0.1503
400
350
300
250
200
150
100

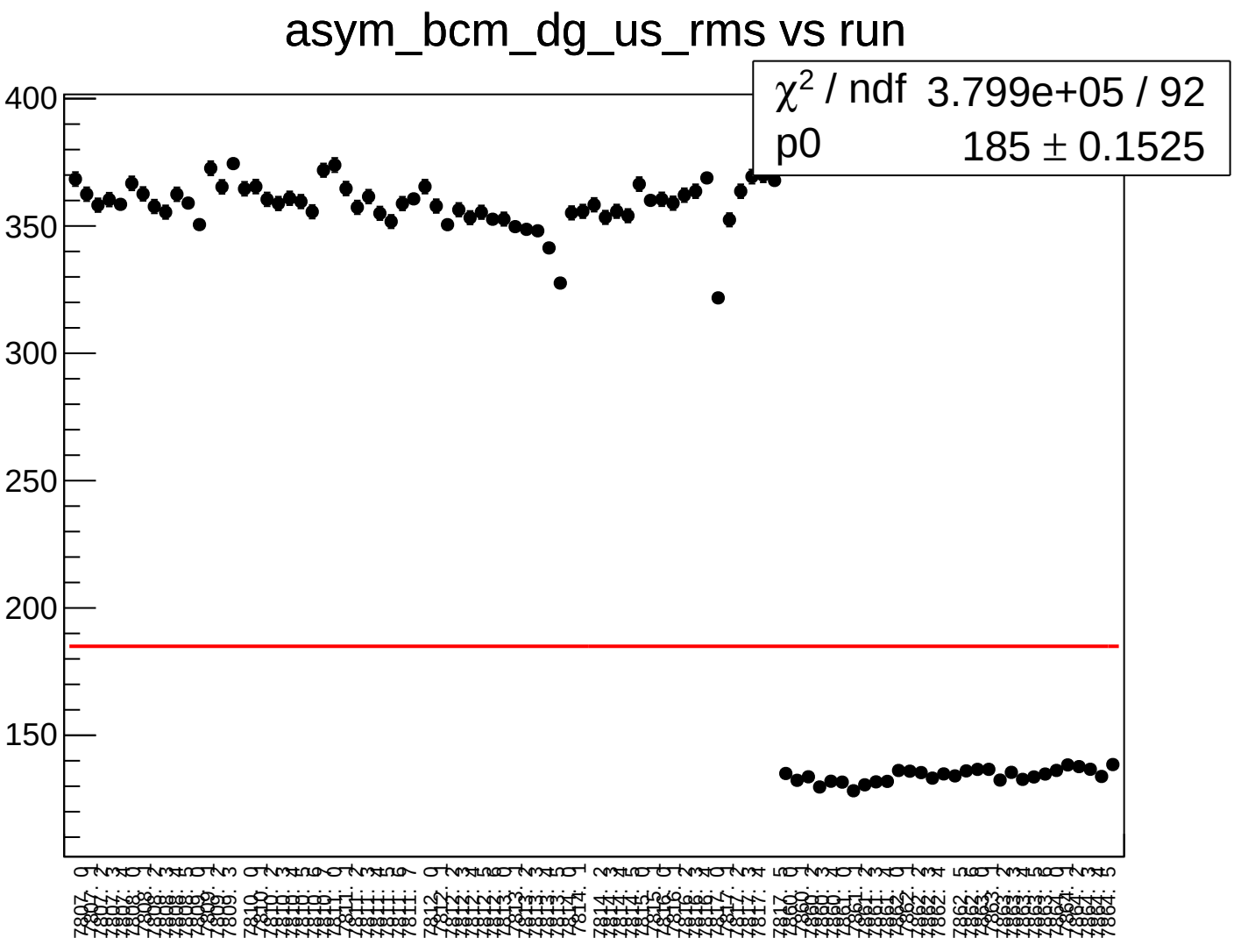

asym_bcm_an_us_mean vs run
χ² / ndf 21.93 / 92
p0 479 ± 212.8
pull
Entries 93
Mean 53.2
Std Dev 0

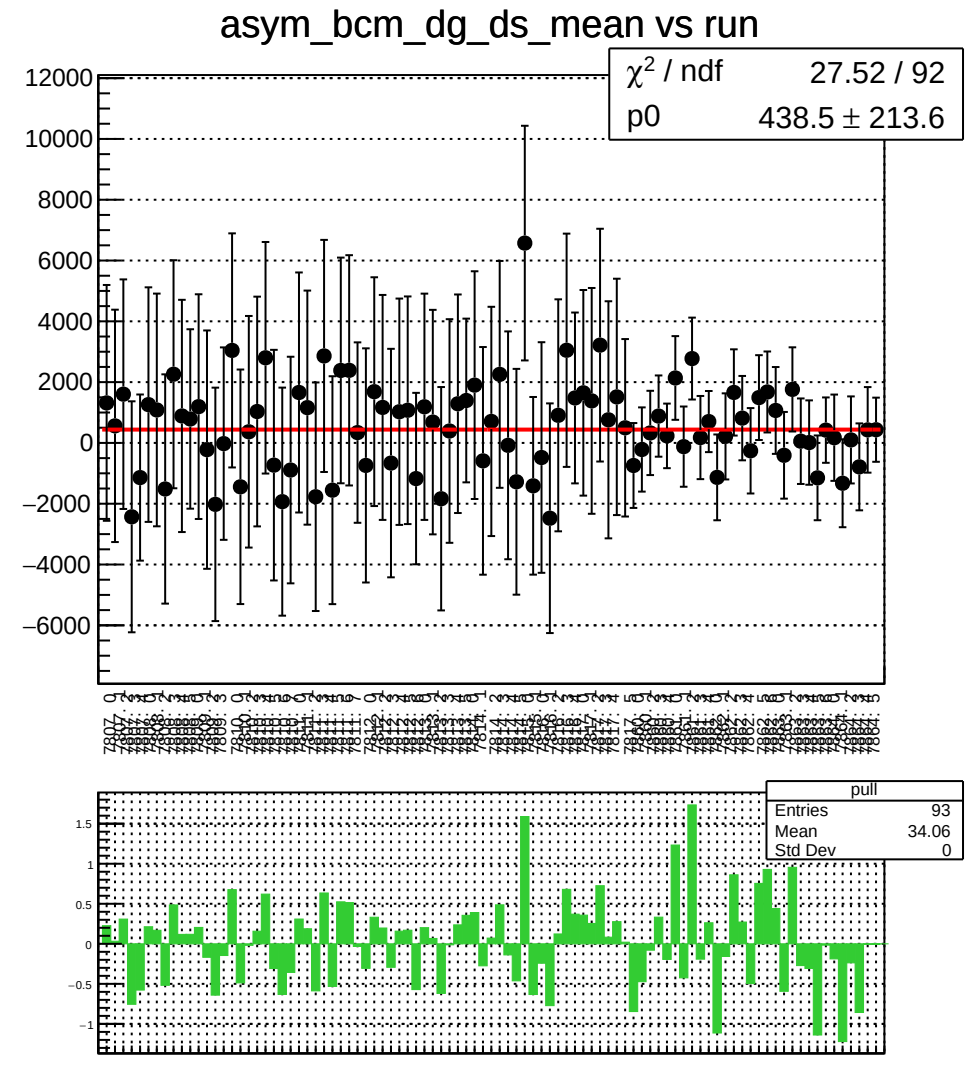

pull1D
Entries 93
Mean 0.01447
Std Dev 0.4854

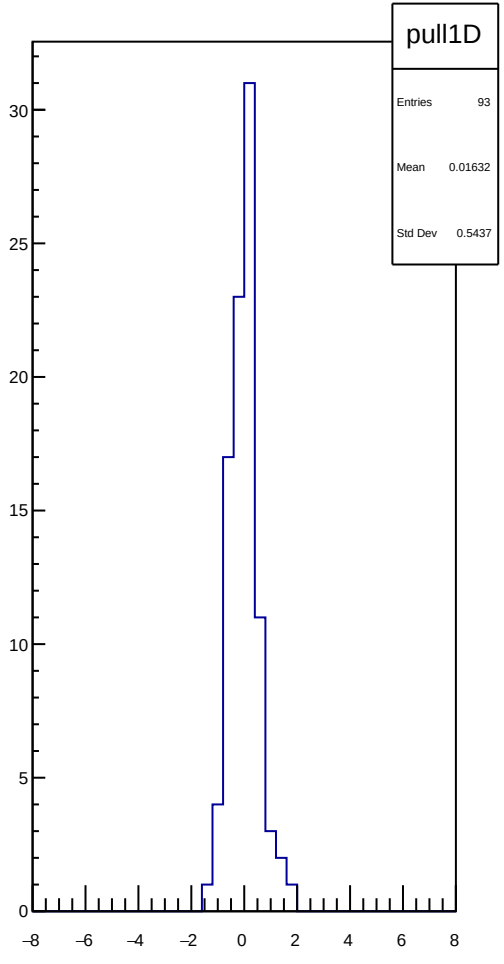

asym_bcm_an_us_rms vs run
χ² / ndf 3.898e+05 / 92
p0 181.9 ± 0.1504
400
350
300
250
200
150
100

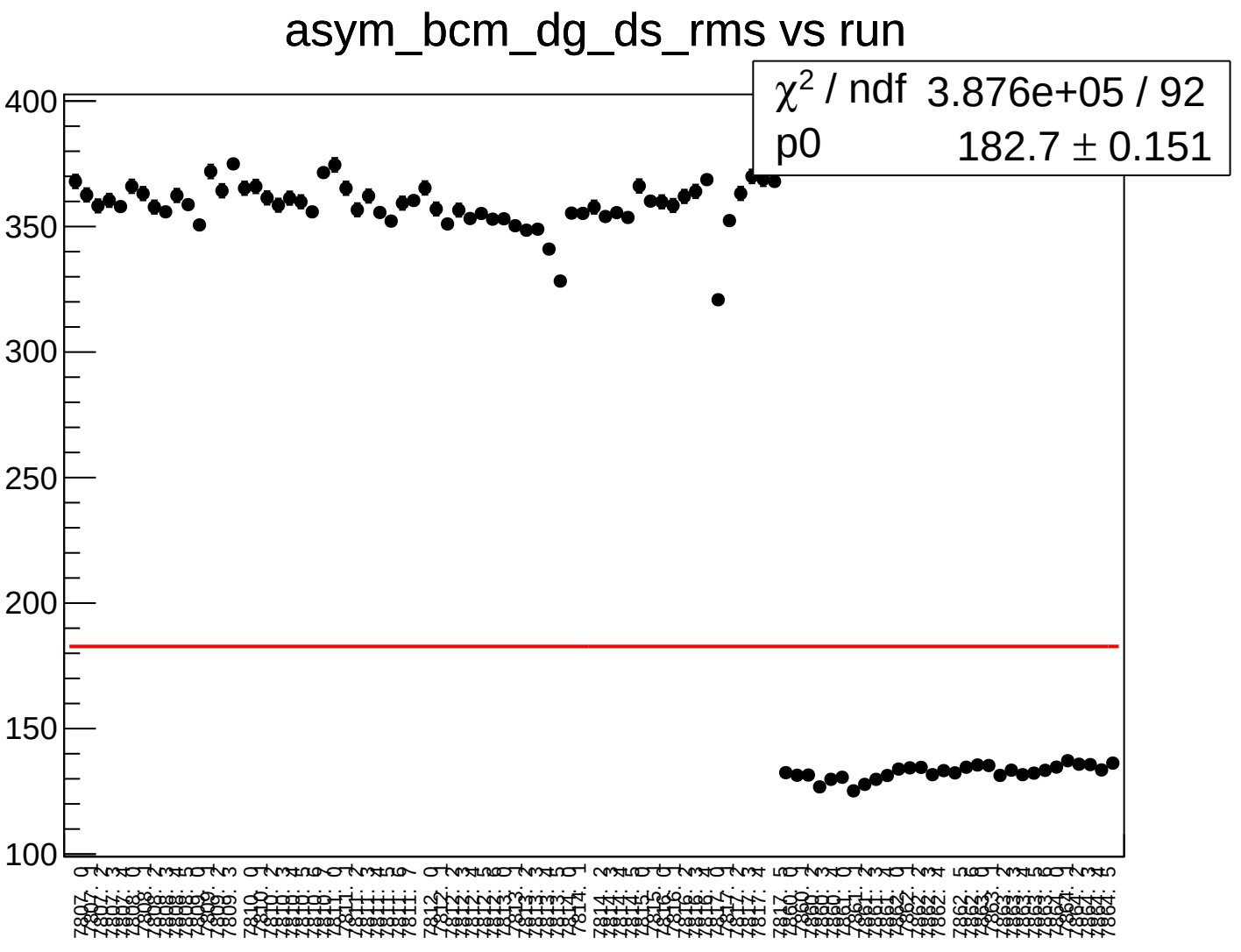

asym_bcm_dg_us_mean vs run
χ² / ndf 22.43 / 92
p0 430.4 ± 215.6
pull
Entries 93
Mean 18.1
Std Dev 0

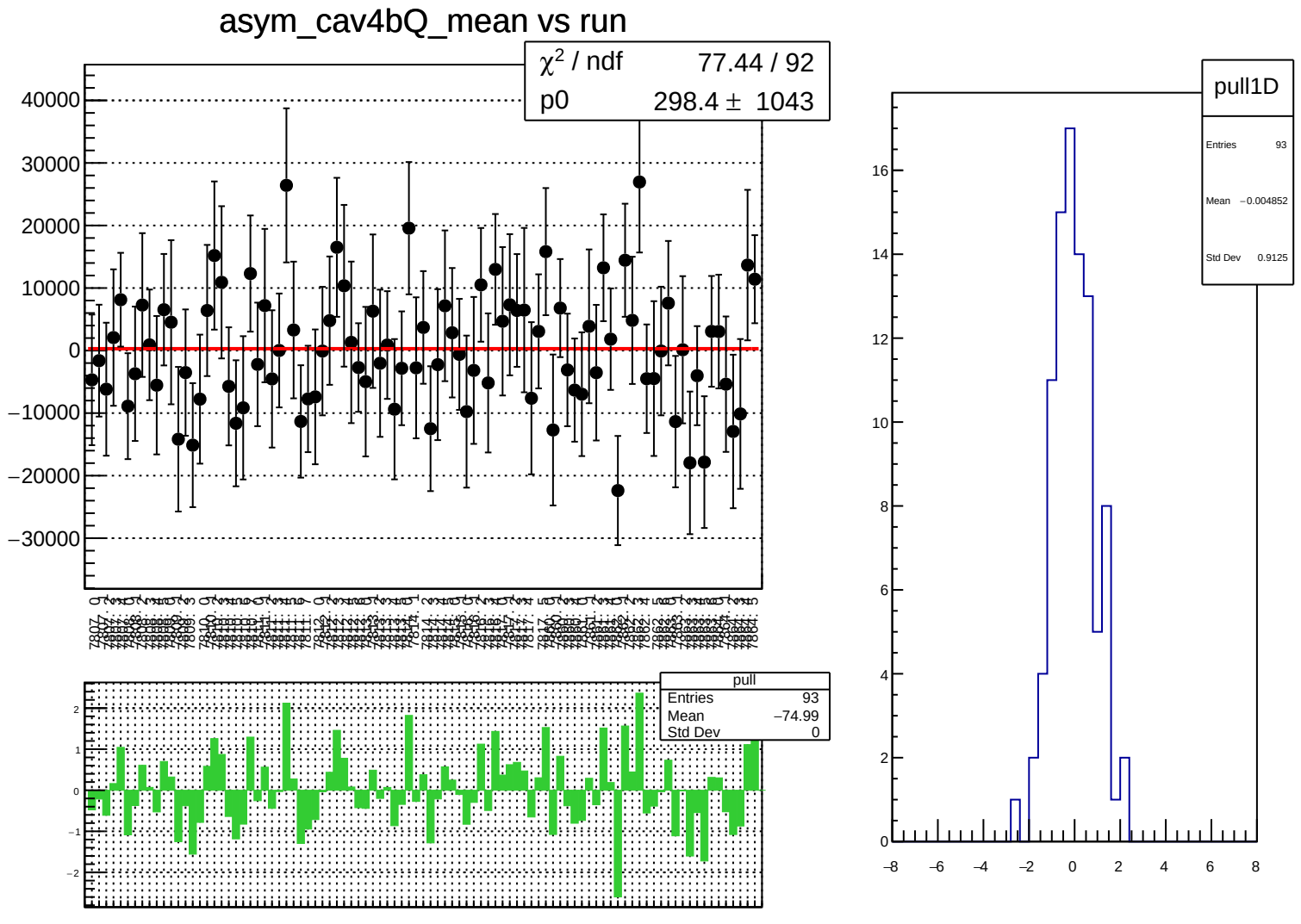

pull1D
Entries 93
Mean 0.01751
Std Dev 0.4908

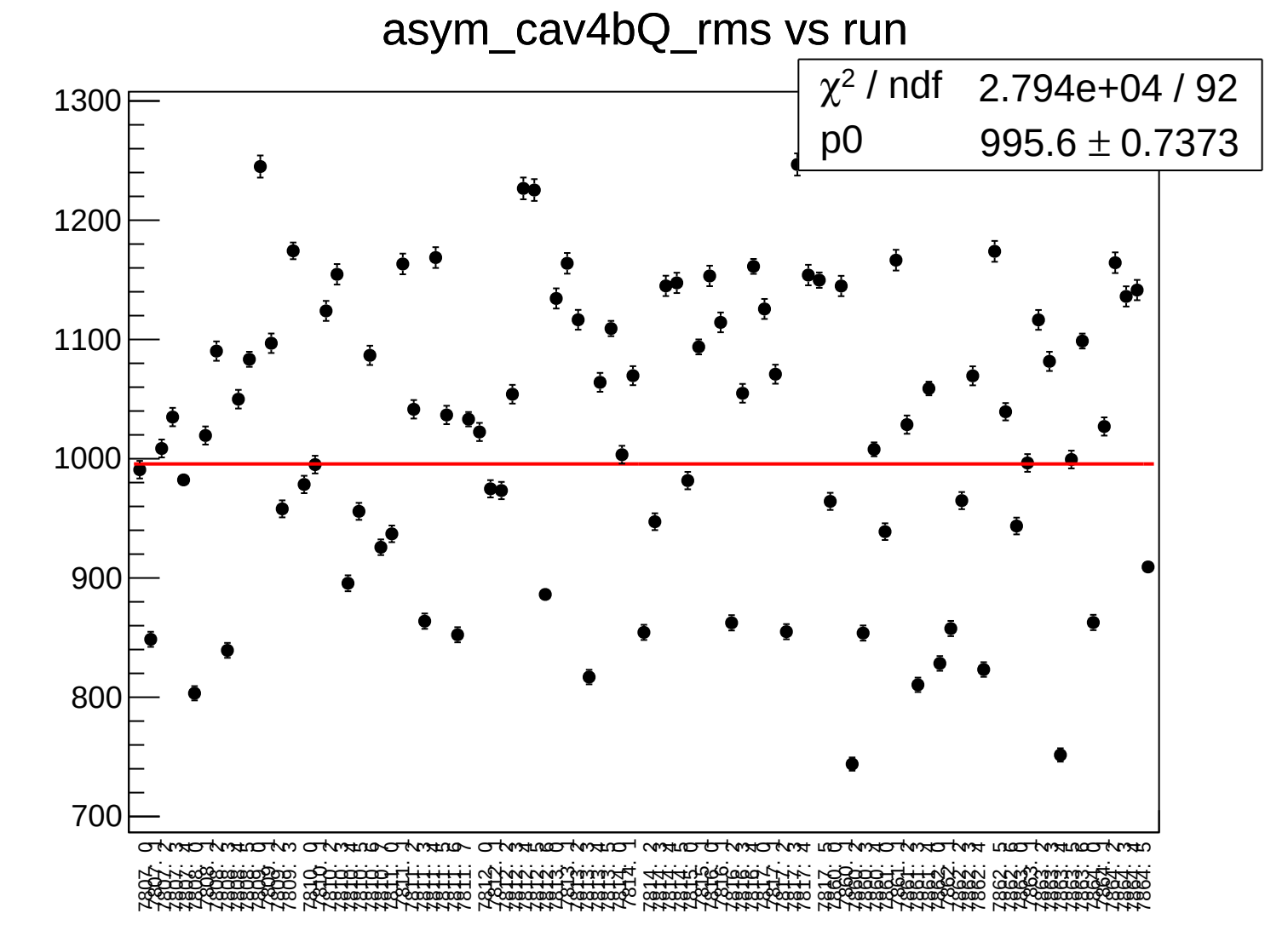

asym_bcm_dg_us_rms vs run
χ² / ndf 3.799e+05 / 92
p0 185 ± 0.1525
400
350
300
250
200
150

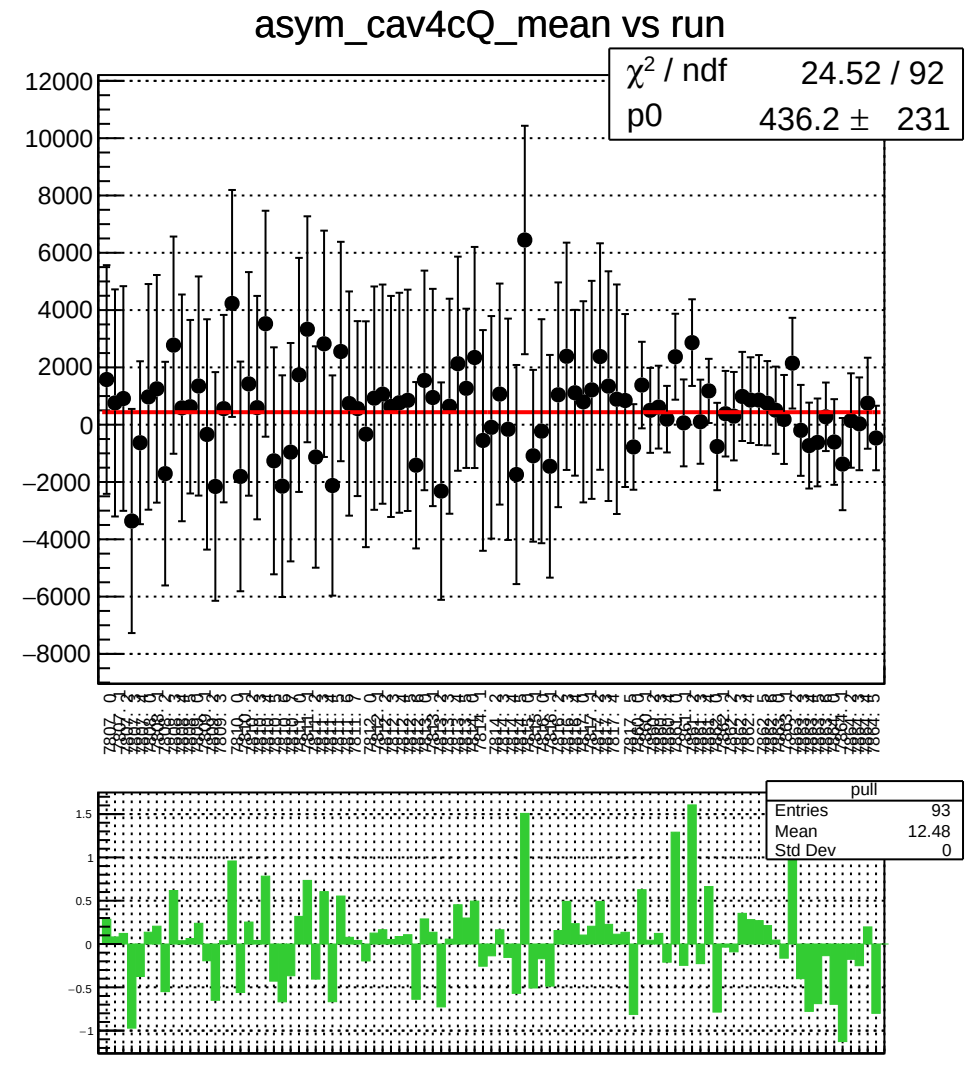

asym_bcm_dg_ds_mean vs run
χ² / ndf 27.52 / 92
p0 438.5 ± 213.6
pull
Entries 93
Mean 34.06
Std Dev 0

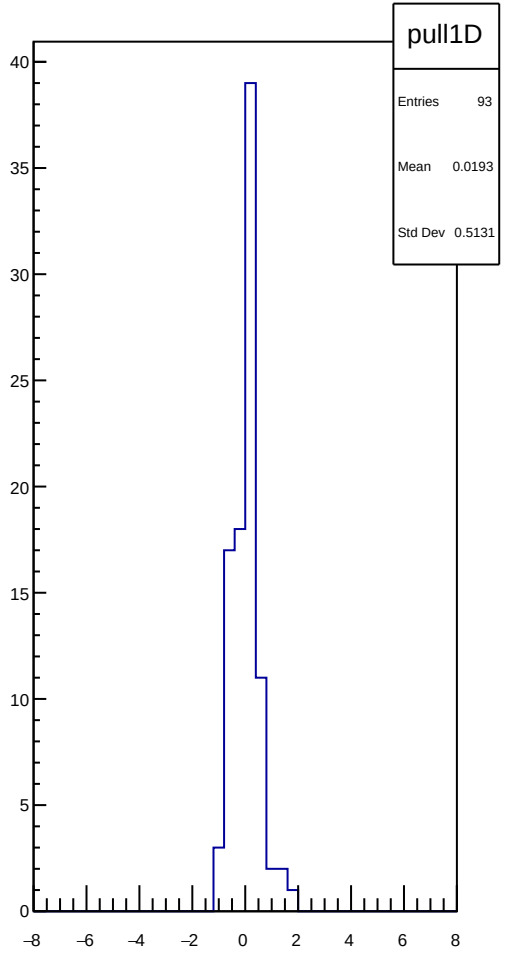

pull1D
Entries 93
Mean 0.01632
Std Dev 0.5437

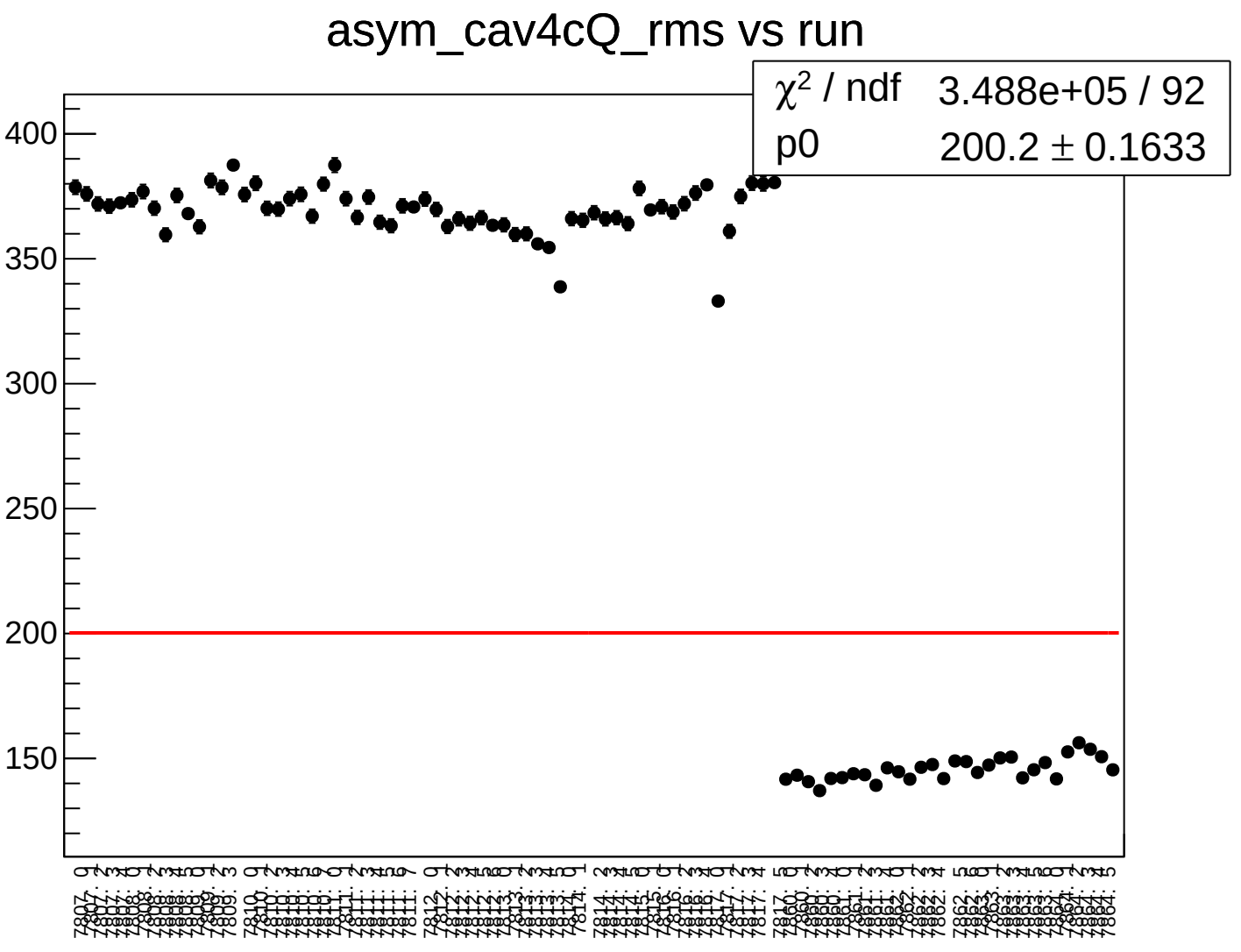

asym_bcm_dg_ds_rms vs run
χ² / ndf 3.876e+05 / 92
p0 182.7 ± 0.151
400
350
300
250
200
150
100

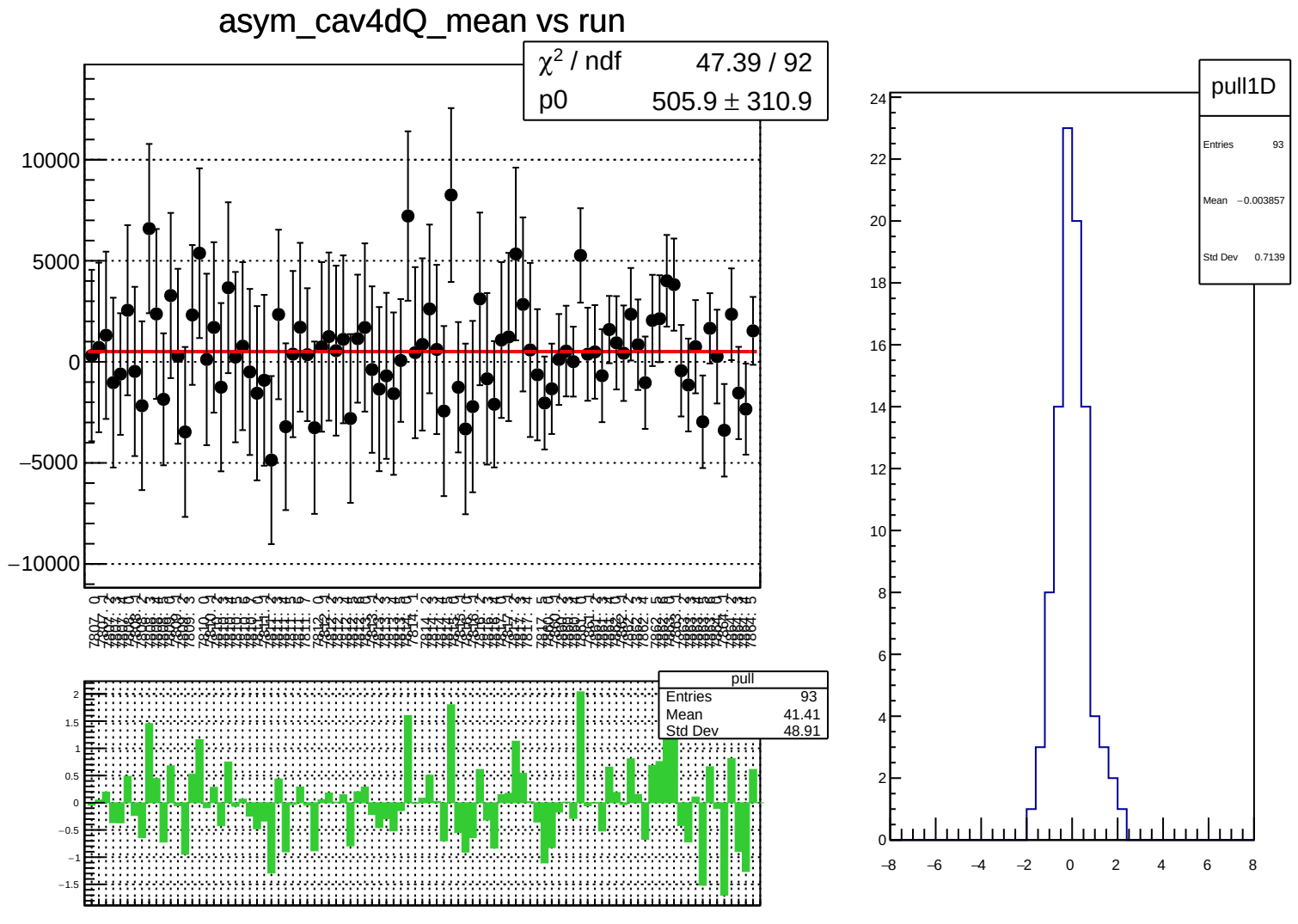

asym_cav4bQ_mean vs run
χ² / ndf 77.44 / 92
p0 298.4 ± 1043
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −74.99
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.004852
Std Dev 0.9125
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

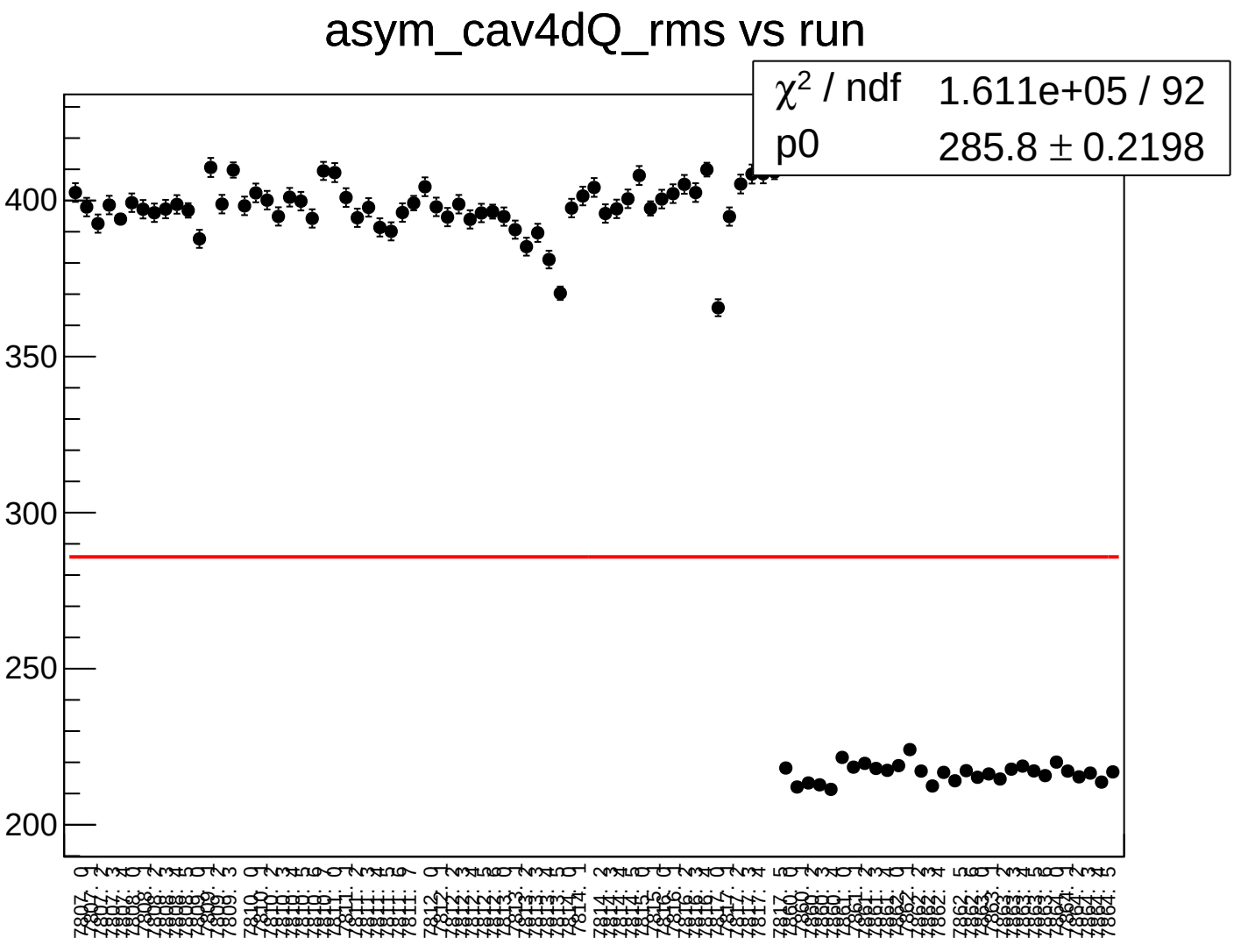

asym_cav4bQ_rms vs run
χ² / ndf 2.794e+04 / 92
p0 995.6 ± 0.7373
1300
1200
1100
1000
900
800
700

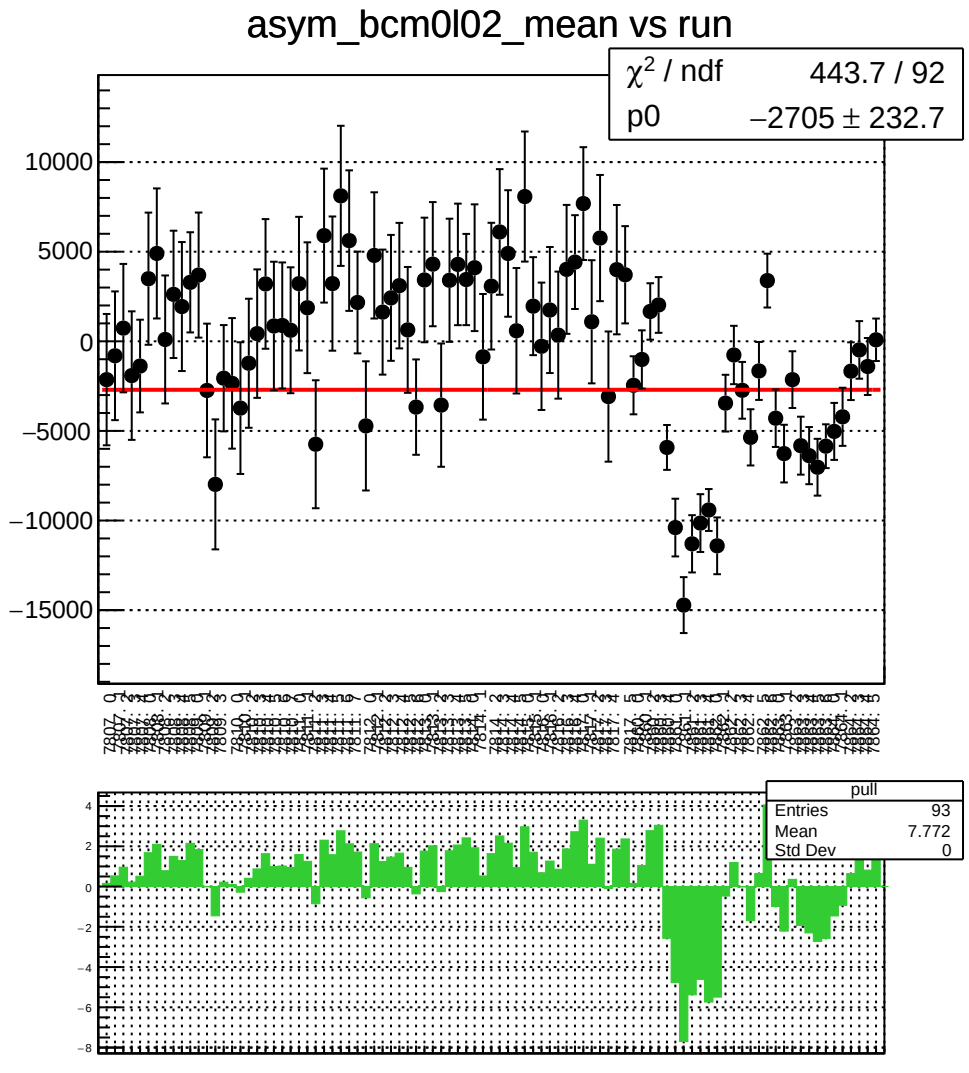

asym_cav4cQ_mean vs run
χ² / ndf 24.52 / 92
p0 436.2 ± 231
pull
Entries 93
Mean 12.48
Std Dev 0

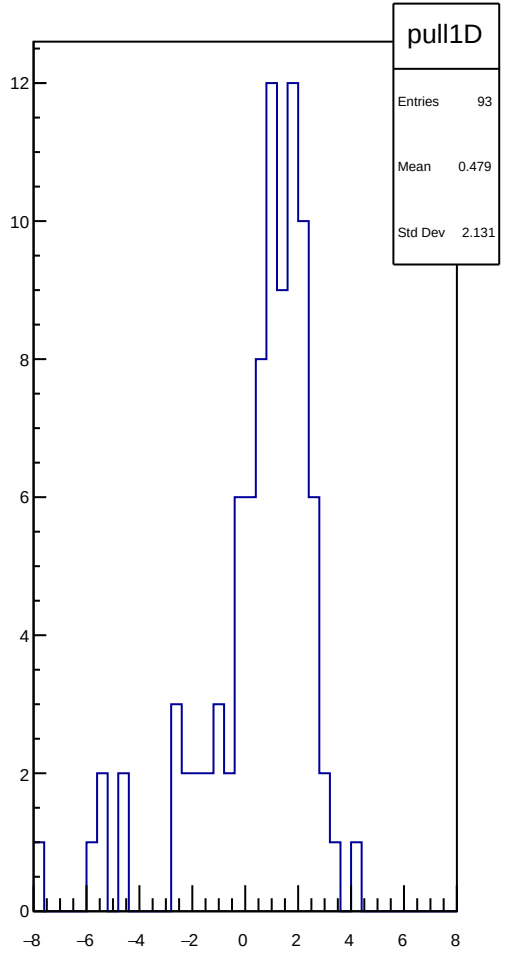

pull1D
Entries 93
Mean 0.0193
Std Dev 0.5131

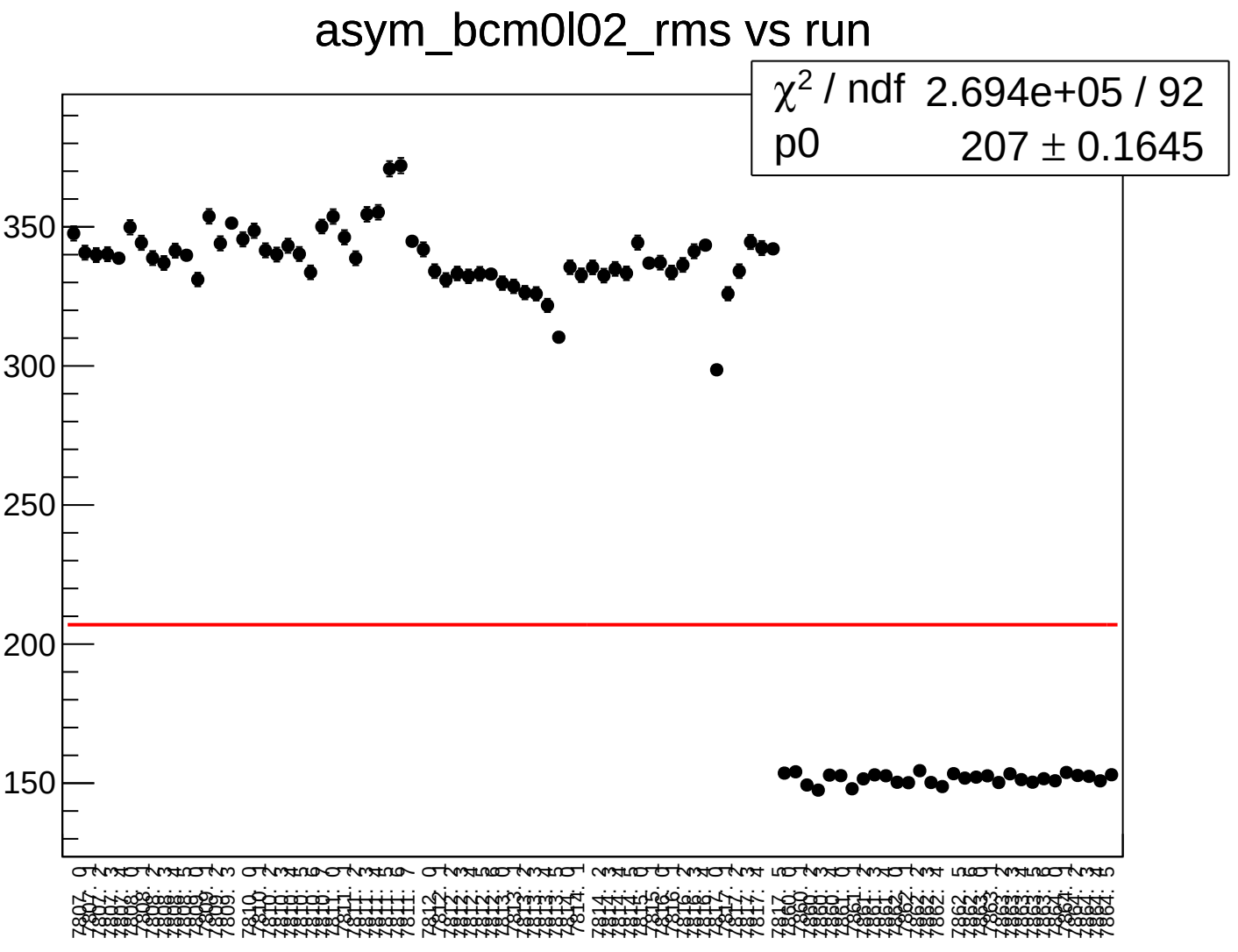

asym_cav4cQ_rms vs run
χ² / ndf 3.488e+05 / 92
p0 200.2 ± 0.1633
400
350
300
250
200
150

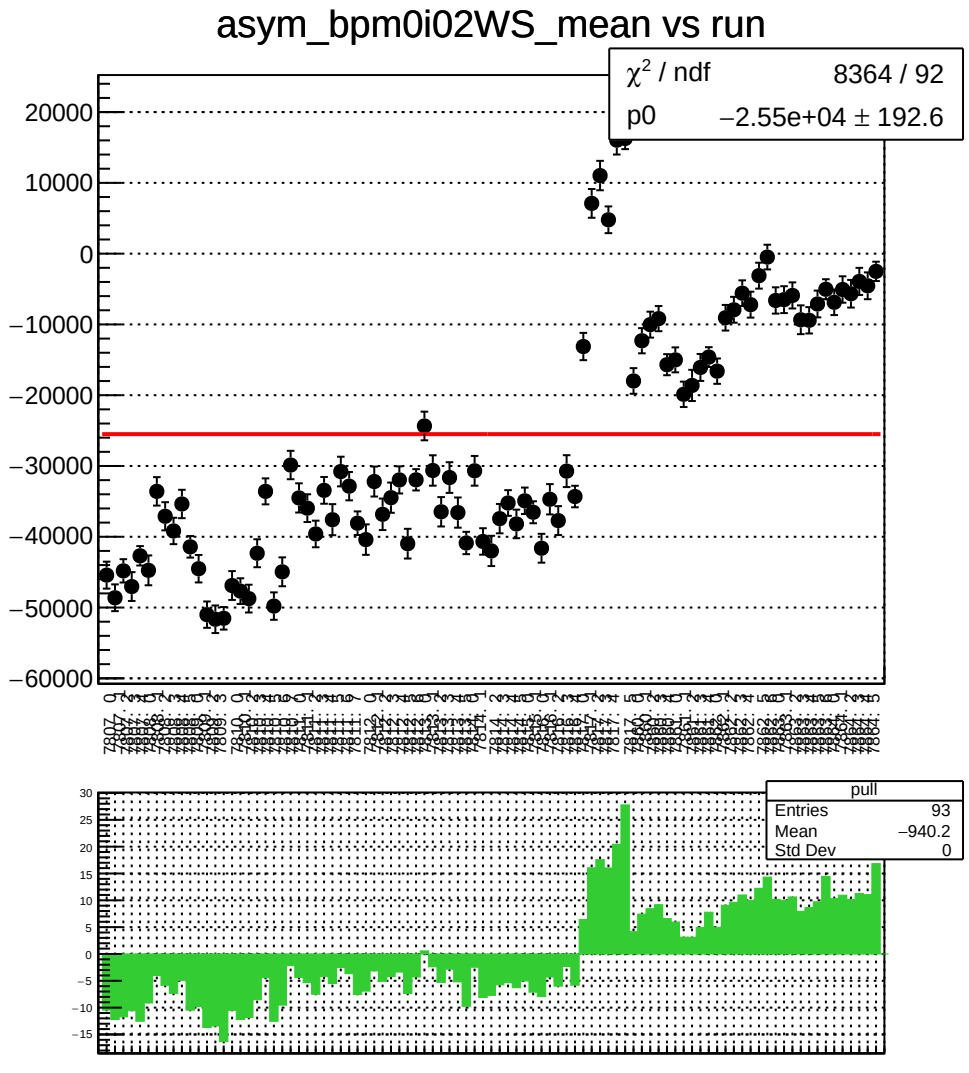

asym_cav4dQ_mean vs run
χ² / ndf 47.39 / 92
p0 505.9 ± 310.9
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 41.41
Std Dev 48.91
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 93
Mean −0.003857
Std Dev 0.7139
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

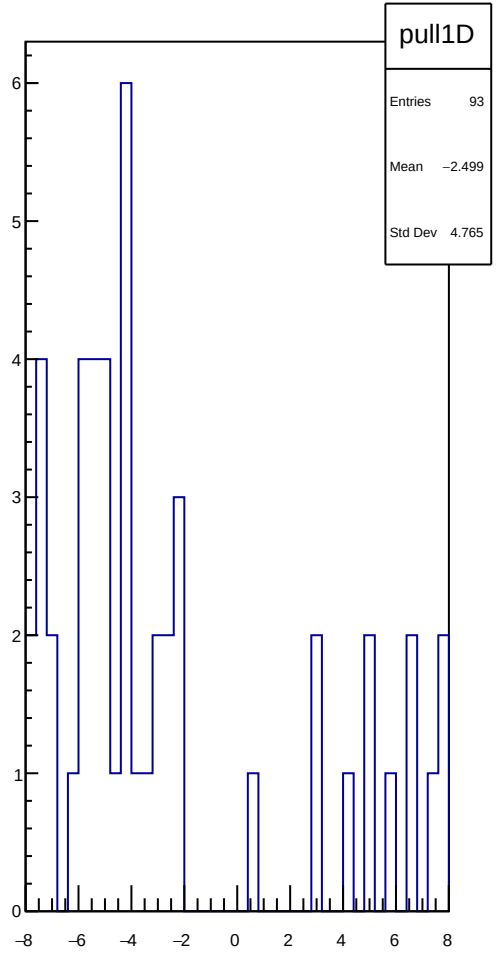

asym_cav4dQ_rms vs run
χ² / ndf 1.611e+05 / 92
p0 285.8 ± 0.2198
400
350
300
250
200

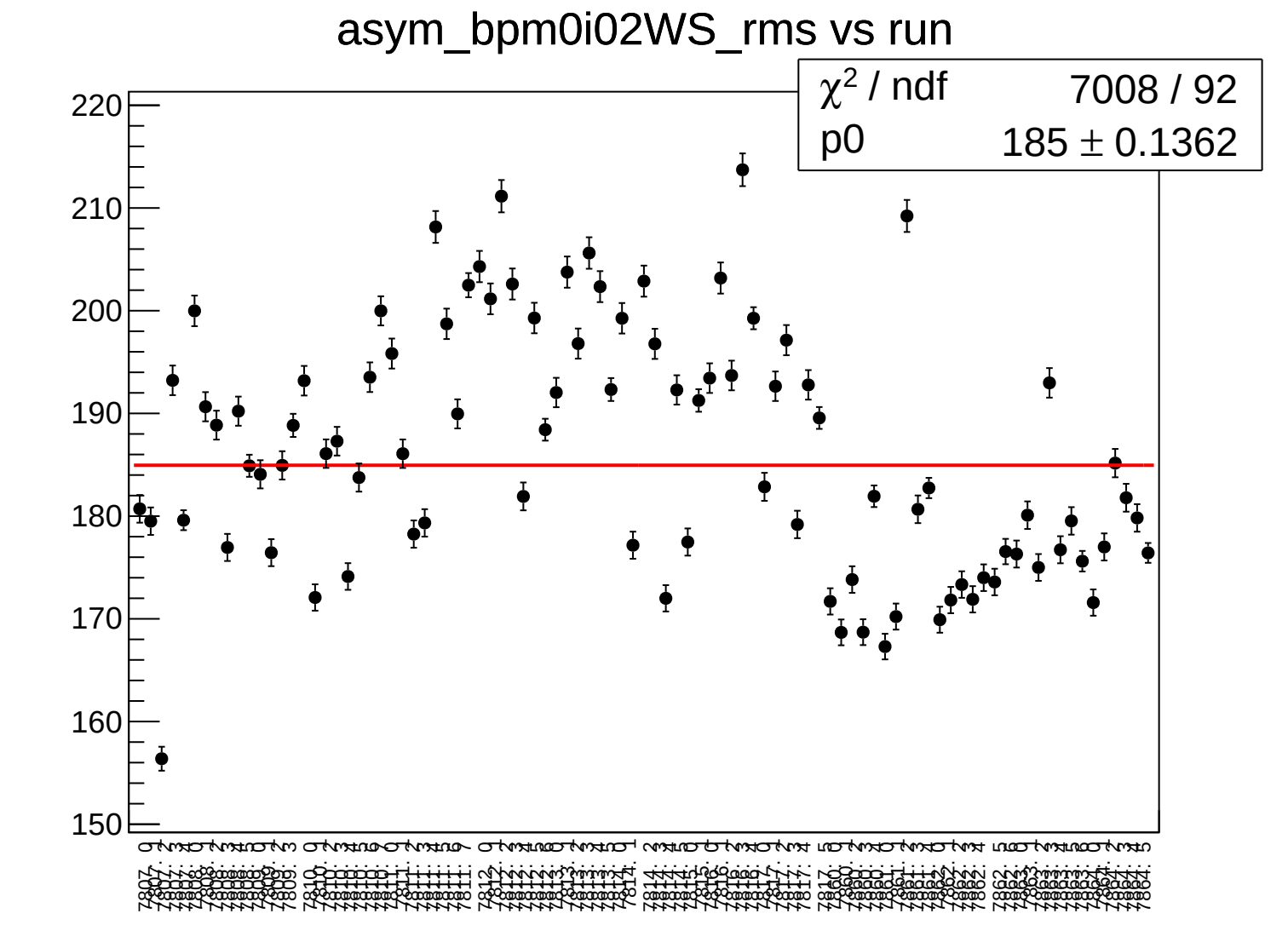

asym_bcm0l02_mean vs run
χ² / ndf 443.7 / 92
p0 −2705 ± 232.7
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean 7.772
Std Dev 0
4
2
0
−2
−4
−6
−8

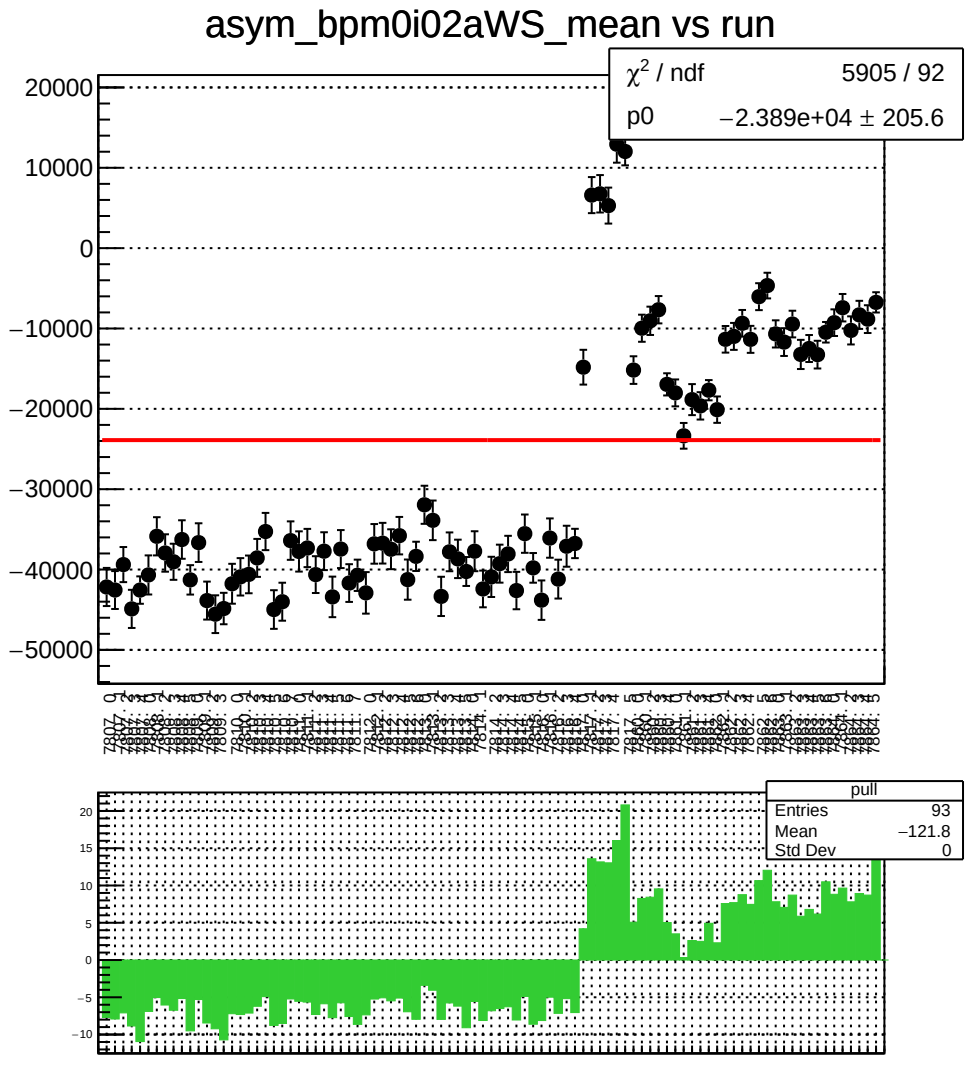

pull1D
Entries 93
Mean 0.479
Std Dev 2.131
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

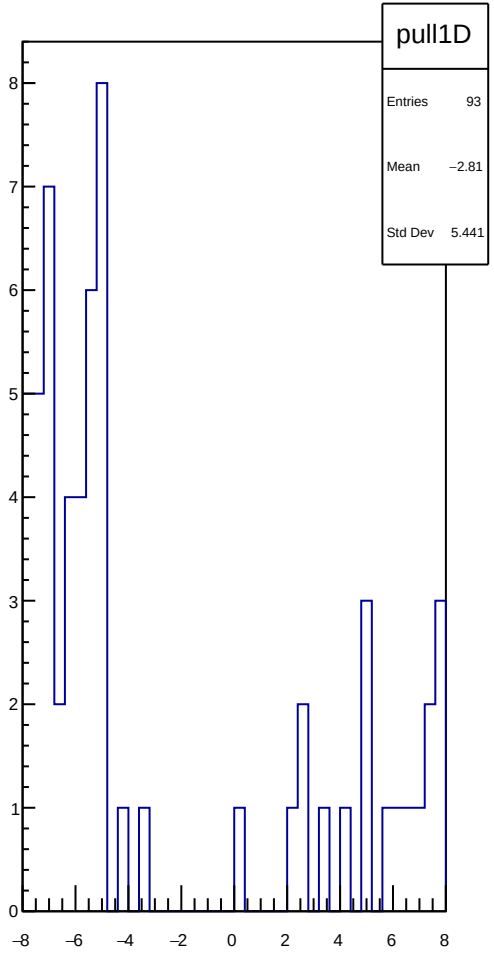

asym_bcm0l02_rms vs run
χ² / ndf 2.694e+05 / 92
p0 207 ± 0.1645
350
300
250
200
150

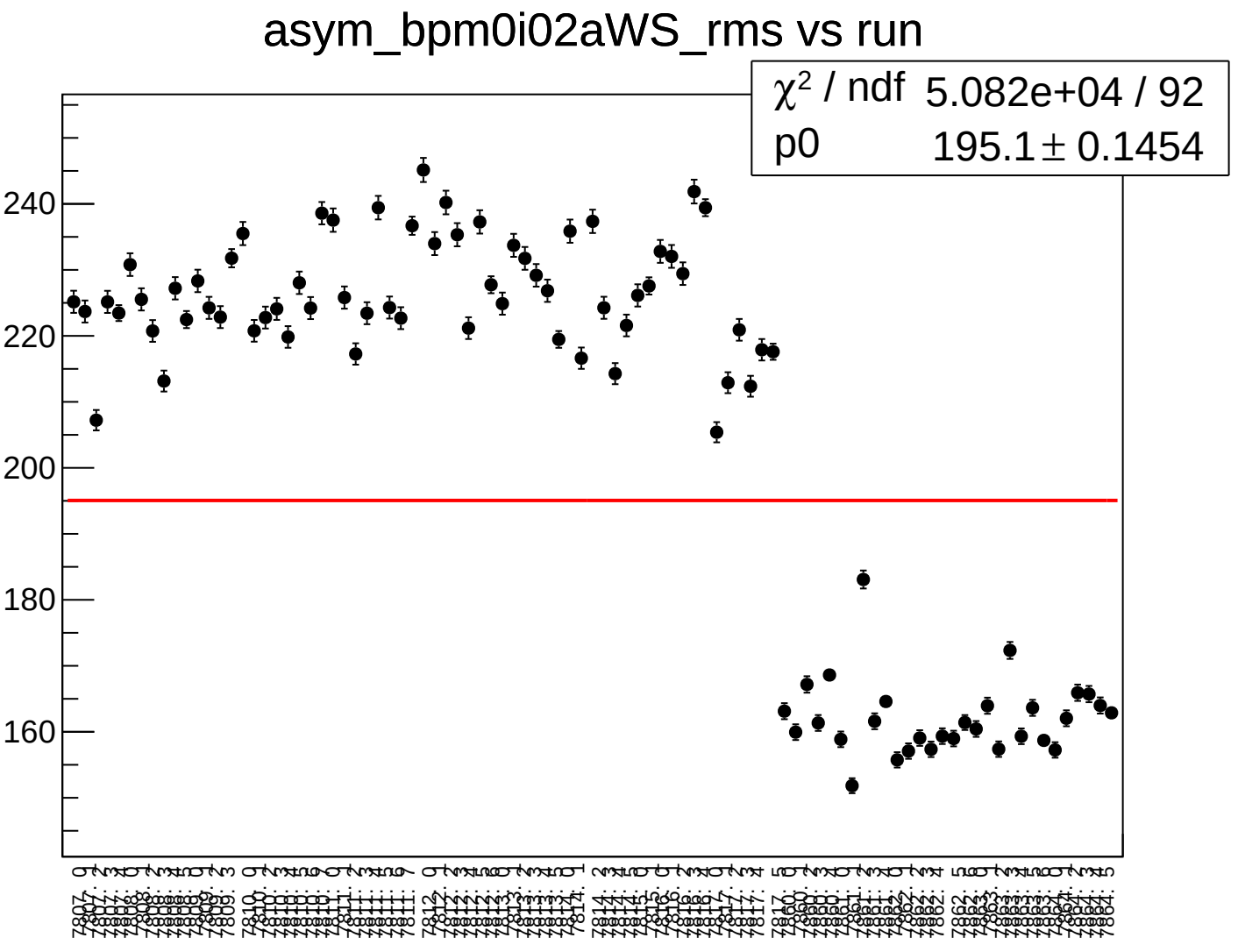

asym_bpm0i02WS_mean vs run
χ² / ndf 8364 / 92
p0 −2.55e+04 ± 192.6
pull
Entries 93
Mean −940.2
Std Dev 0

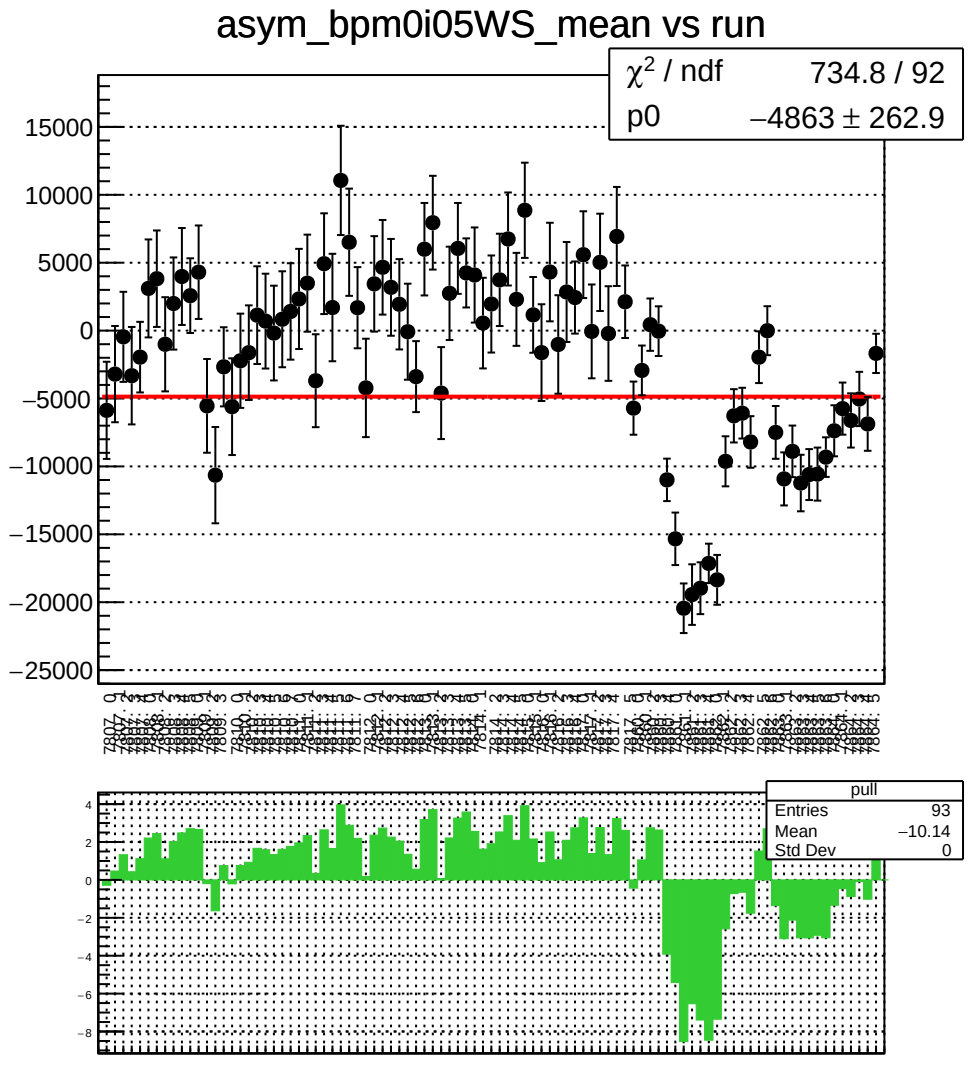

pull1D
Entries 93
Mean −2.499
Std Dev 4.765

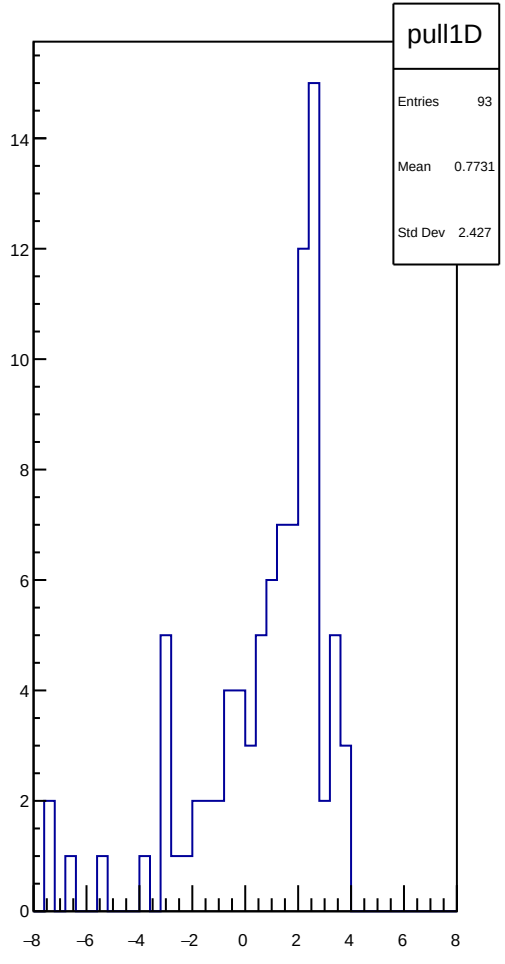

asym_bpm0i02WS_rms vs run
χ^2 / ndf 7008 / 92
p0 185 ± 0.1362
220
210
200
190
180
170
160
150

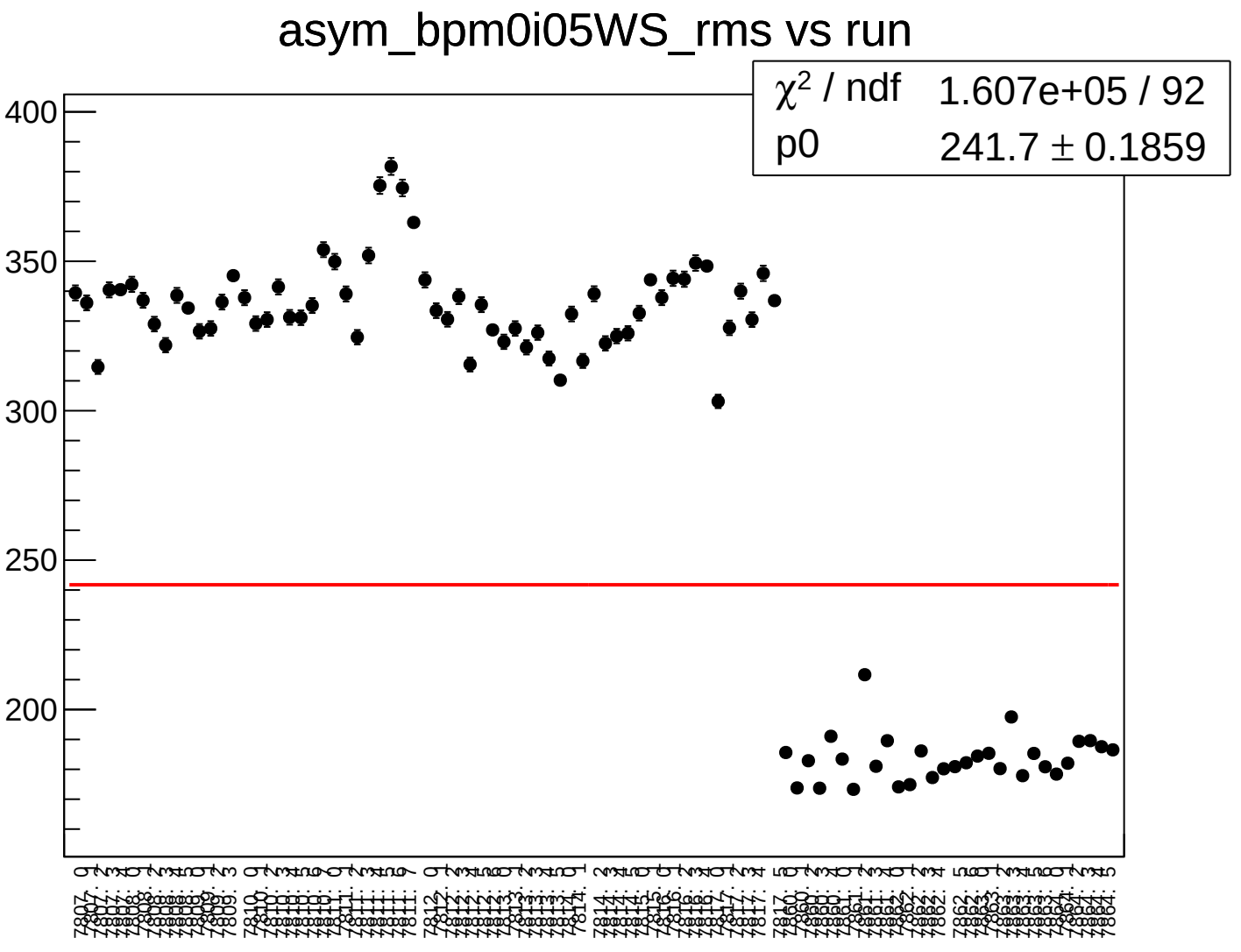

asym_bpm0i02aWS_mean vs run
χ² / ndf 5905 / 92
p0 −2.389e+04 ± 205.6
pull
Entries 93
Mean −121.8
Std Dev 0

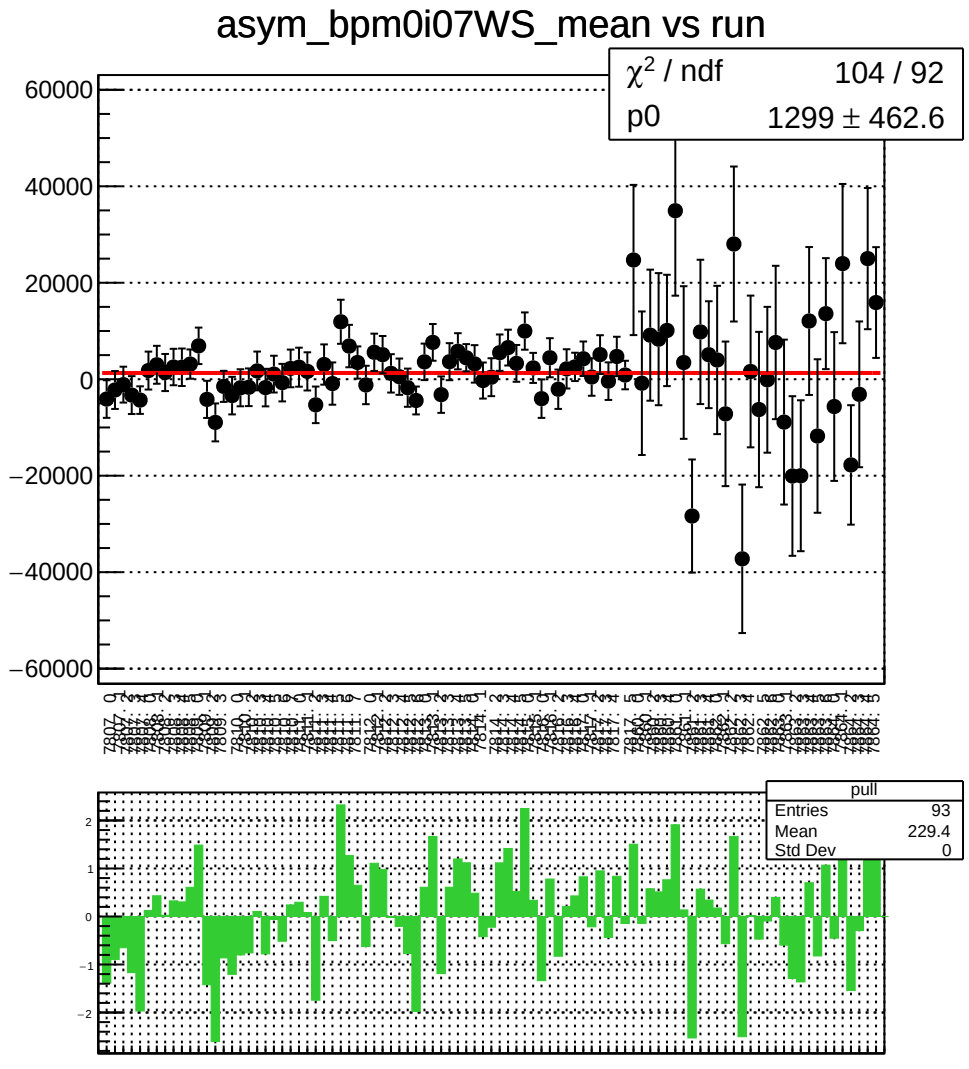

pull1D
Entries 93
Mean −2.81
Std Dev 5.441

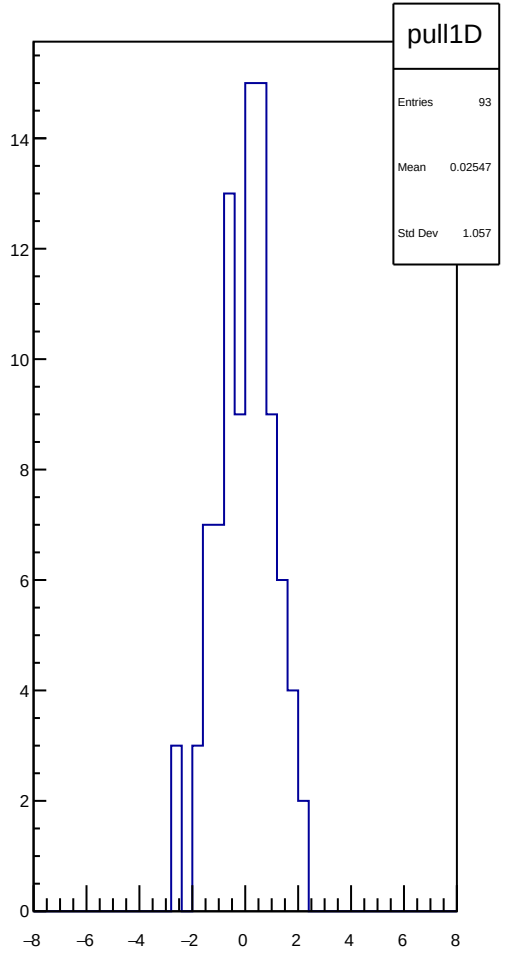

asym_bpm0i02aWS_rms vs run
χ² / ndf 5.082e+04 / 92
p0 195.1 ± 0.1454
240
220
200
180
160

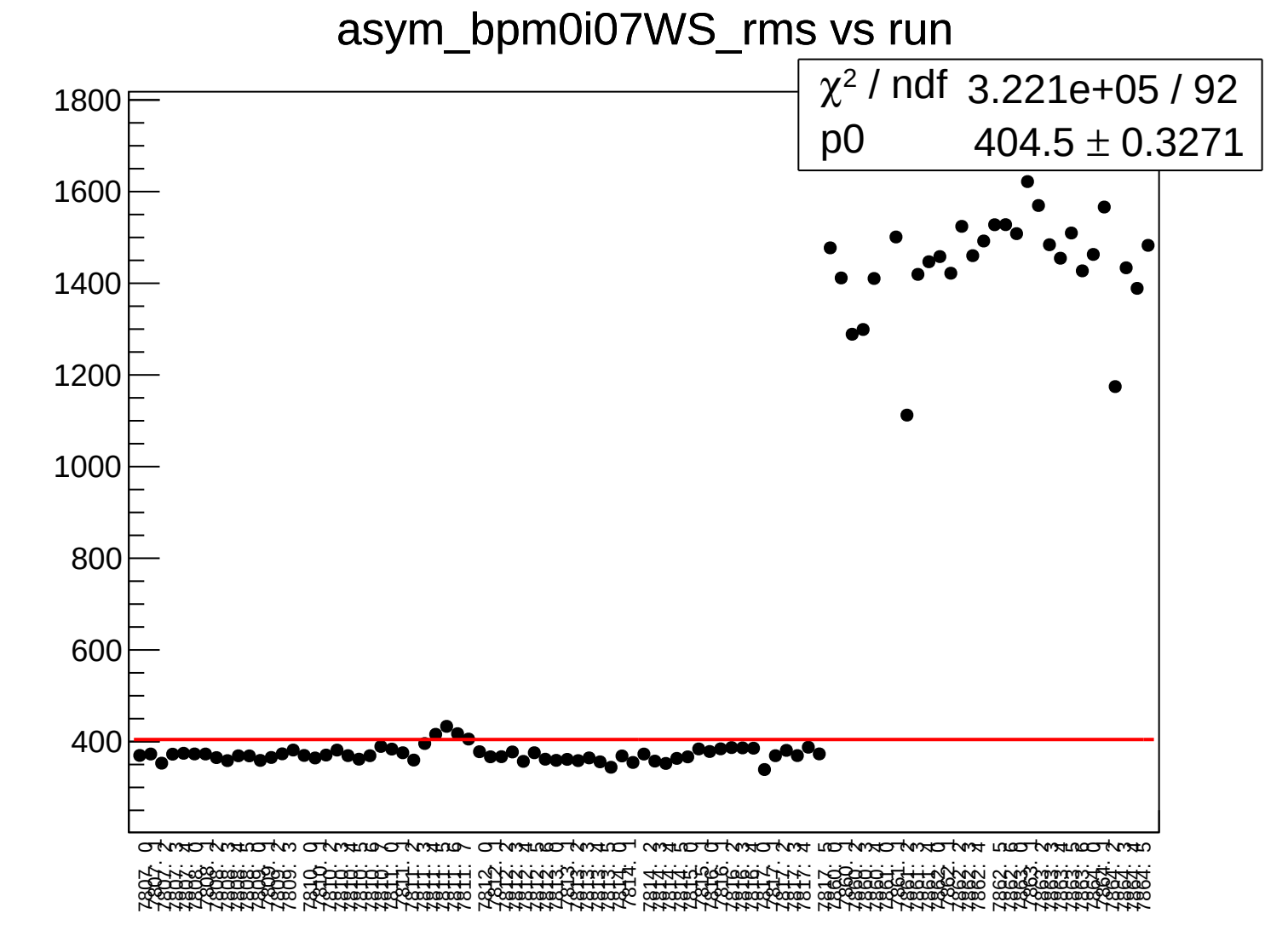

asym_bpm0i05WS_mean vs run
χ² / ndf 734.8 / 92
p0 −4863 ± 262.9
pull
Entries 93
Mean −10.14
Std Dev 0

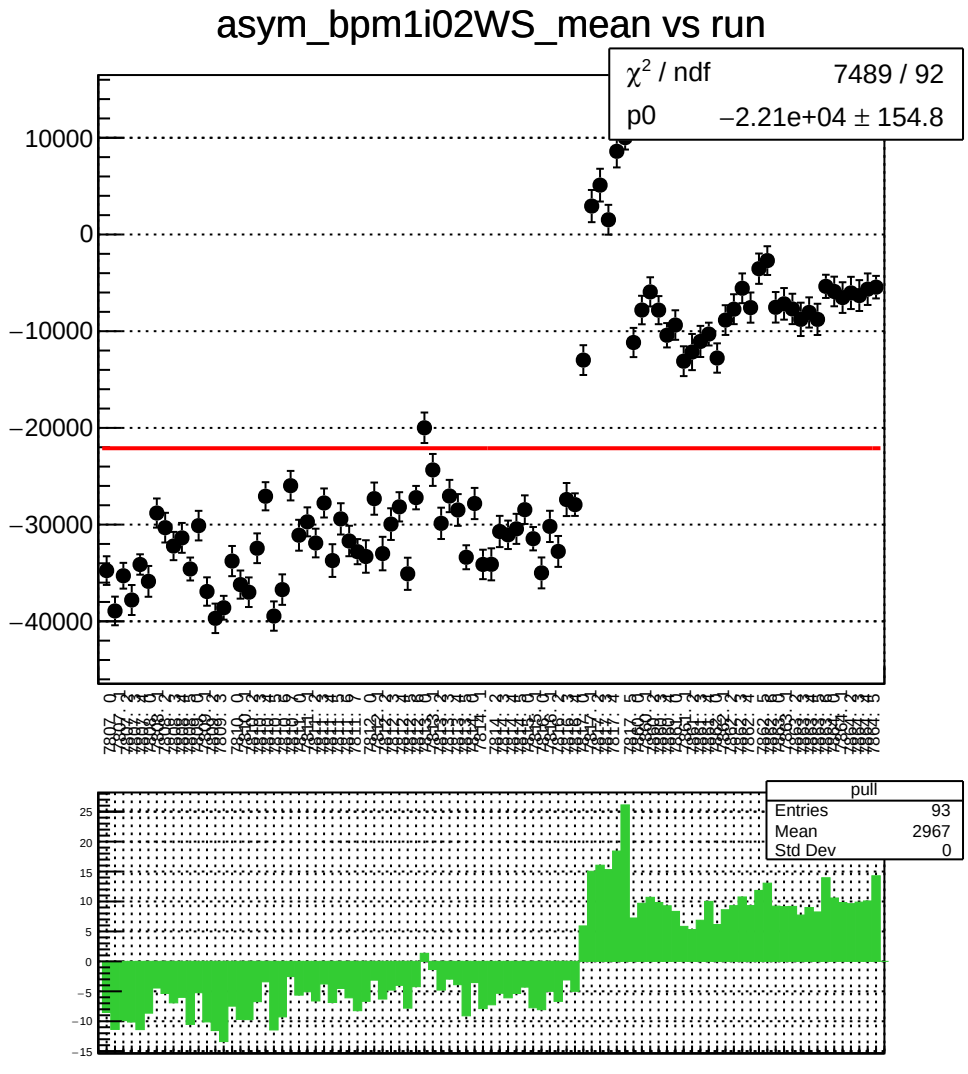

pull1D
Entries 93
Mean 0.7731
Std Dev 2.427

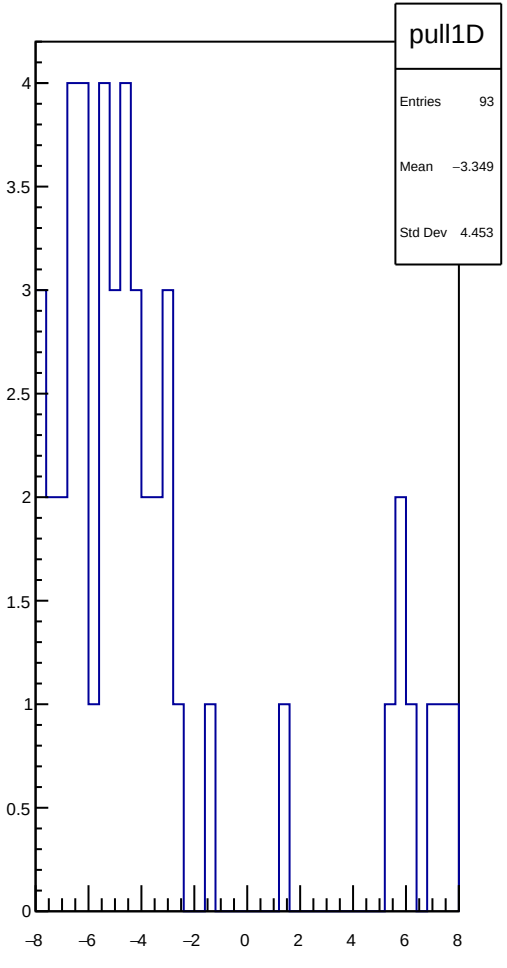

asym_bpm0i05WS_rms vs run
χ² / ndf 1.607e+05 / 92
p0 241.7 ± 0.1859
400
350
300
250
200

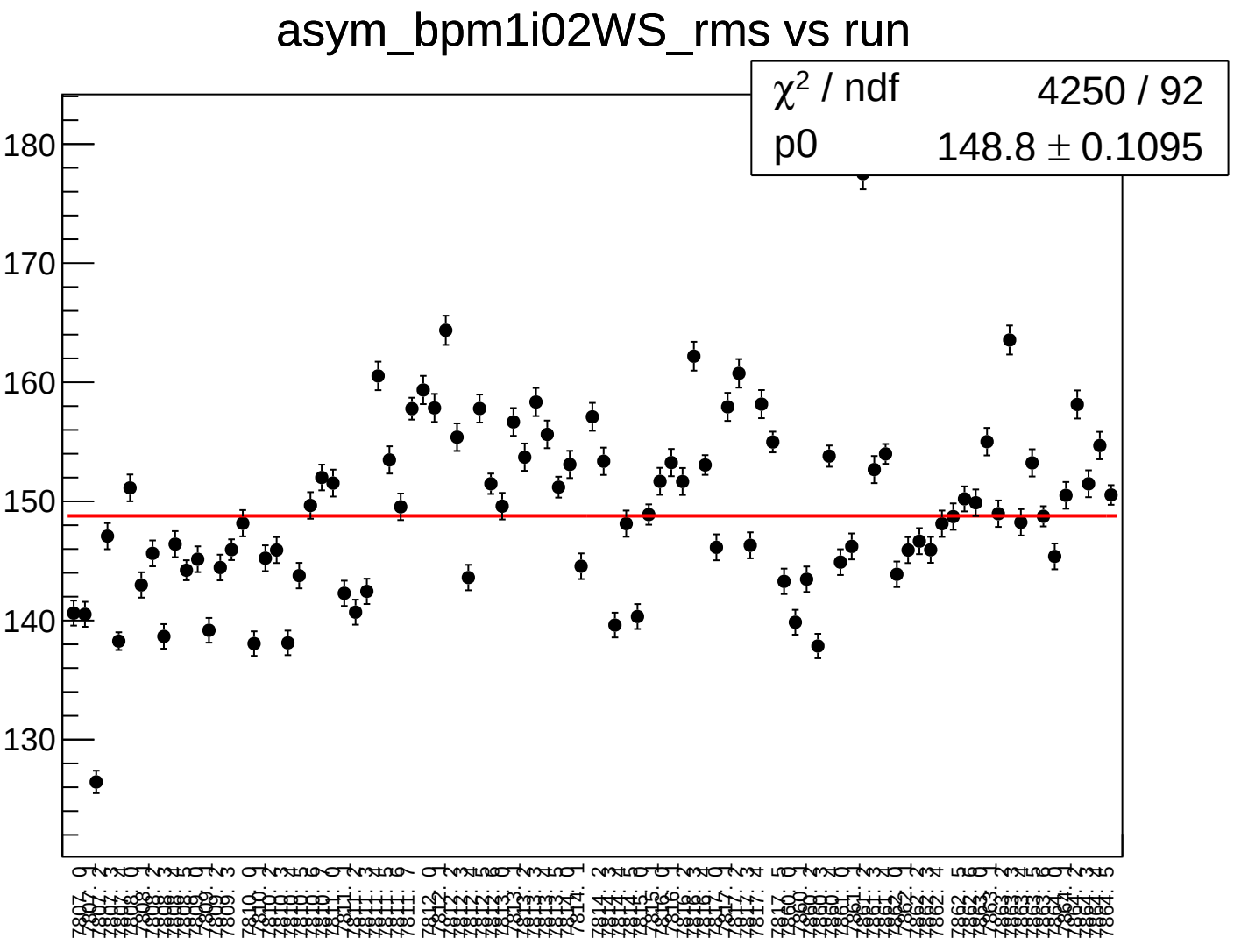

asym_bpm0i07WS_mean vs run
χ² / ndf 104 / 92
p0 1299 ± 462.6
pull
Entries 93
Mean 229.4
Std Dev 0

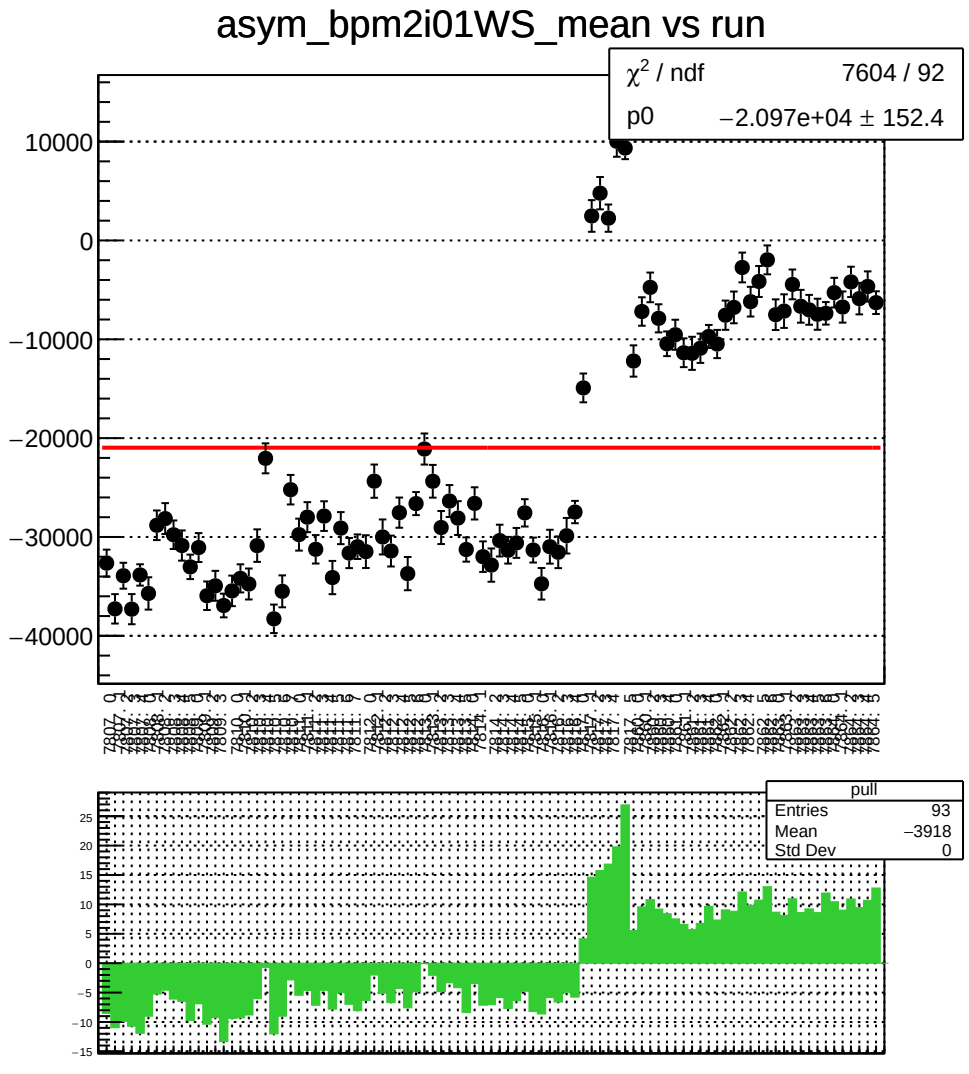

pull1D
Entries 93
Mean 0.02547
Std Dev 1.057

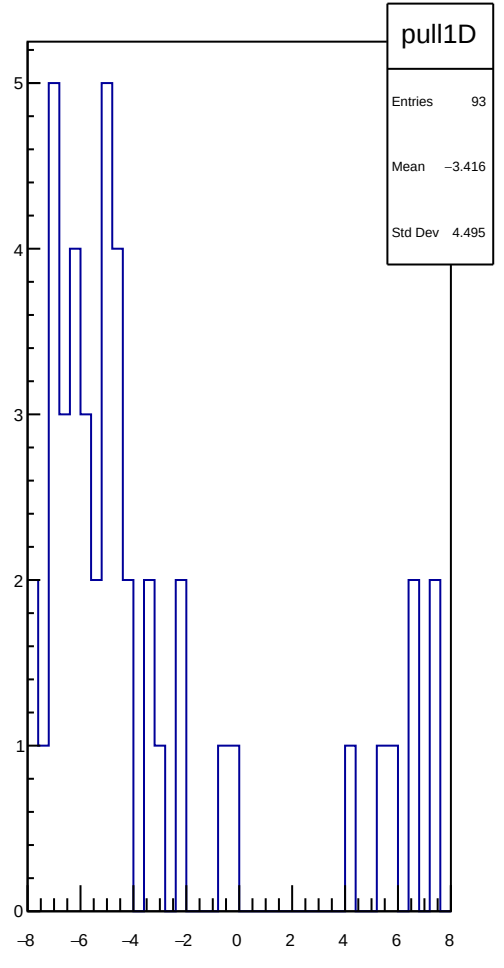

asym_bpm0i07WS_rms vs run
χ² / ndf 3.221e+05 / 92
p0 404.5 ± 0.3271
1800
1600
1400
1200
1000
800
600
400

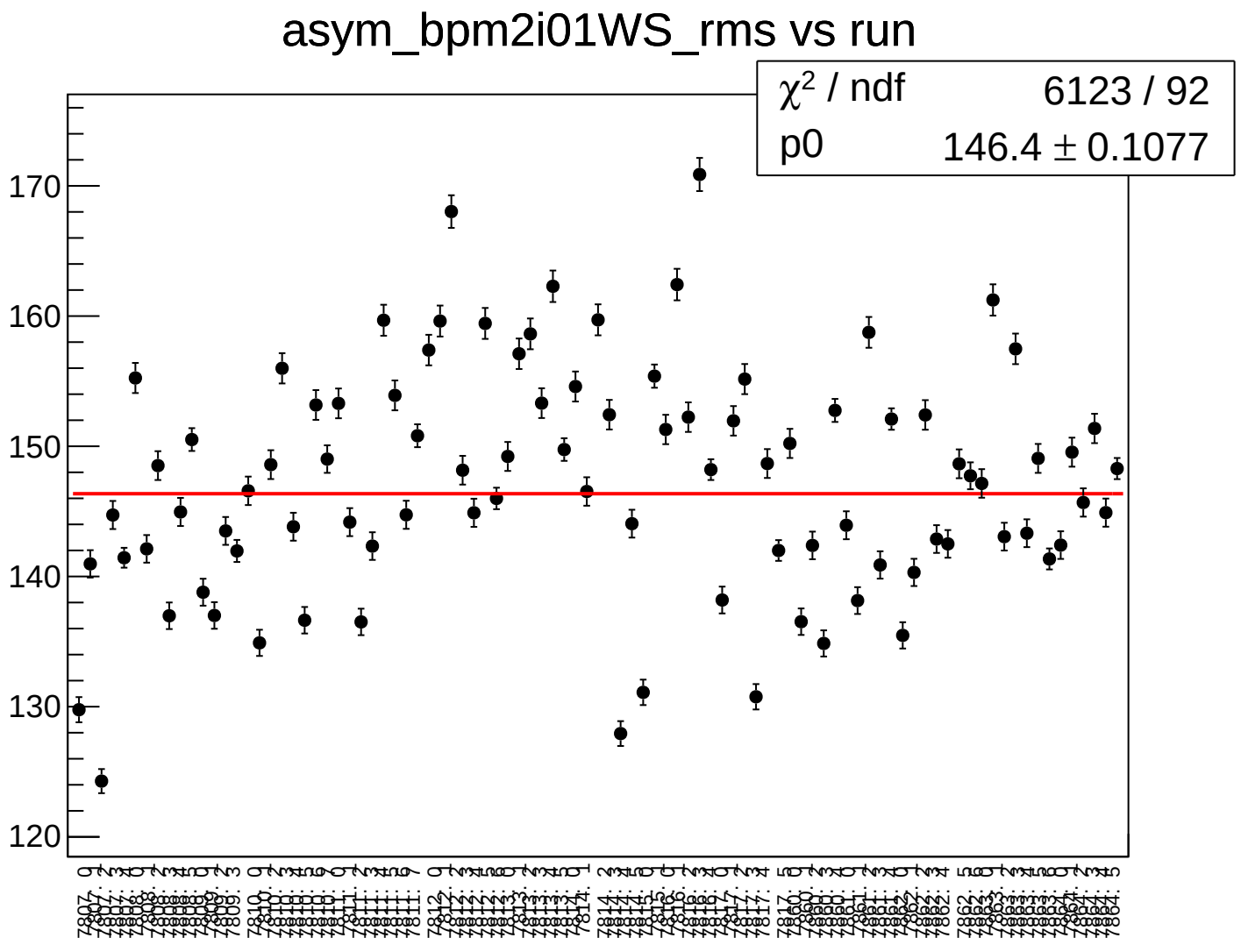

asym_bpm1i02WS_mean vs run
χ² / ndf 7489 / 92
p0 −2.21e+04 ± 154.8
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean 2967
Std Dev 0
25
20
15
10
5
0
−5
−10
−15

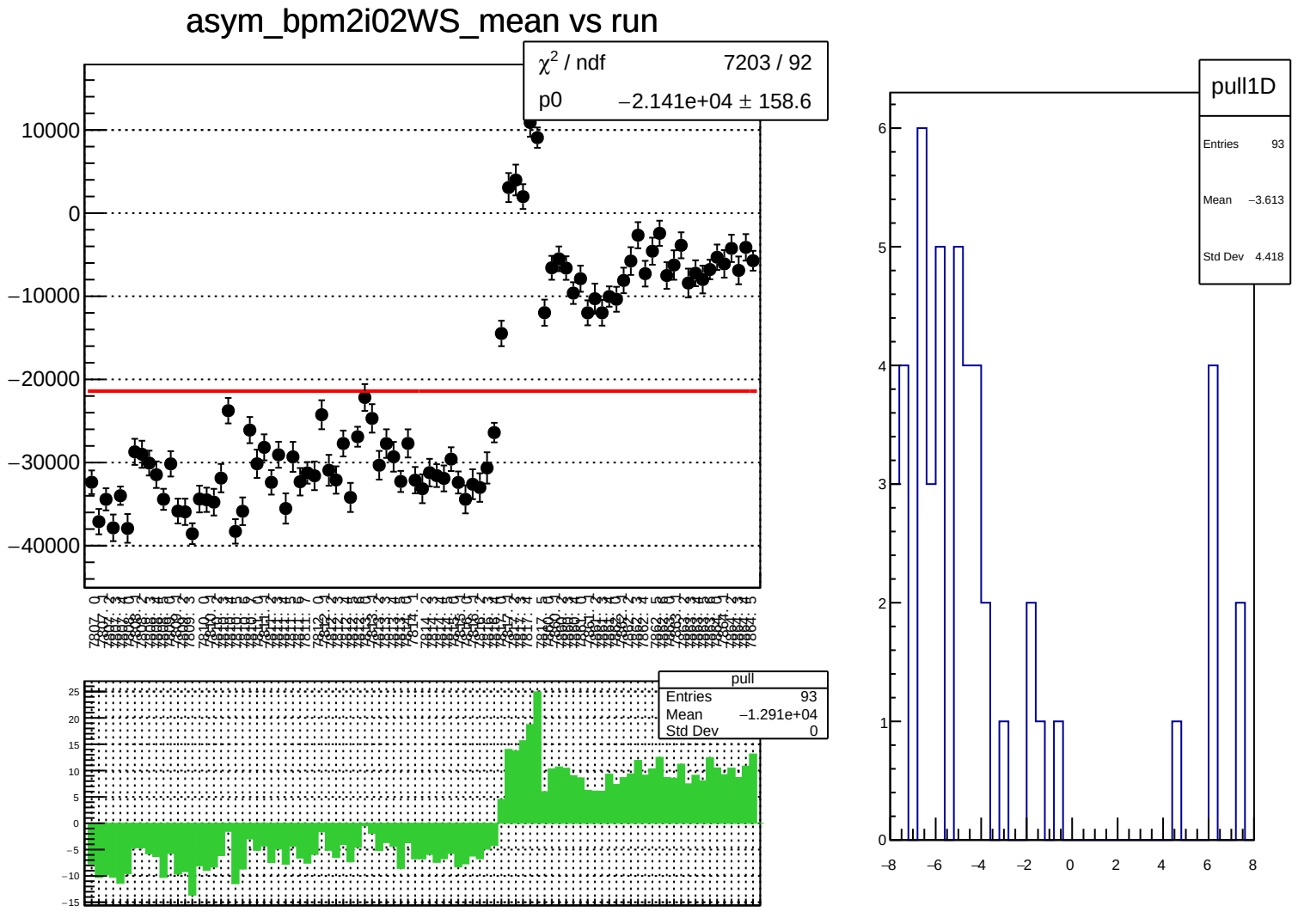

pull1D
Entries 93
Mean −3.349
Std Dev 4.453
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

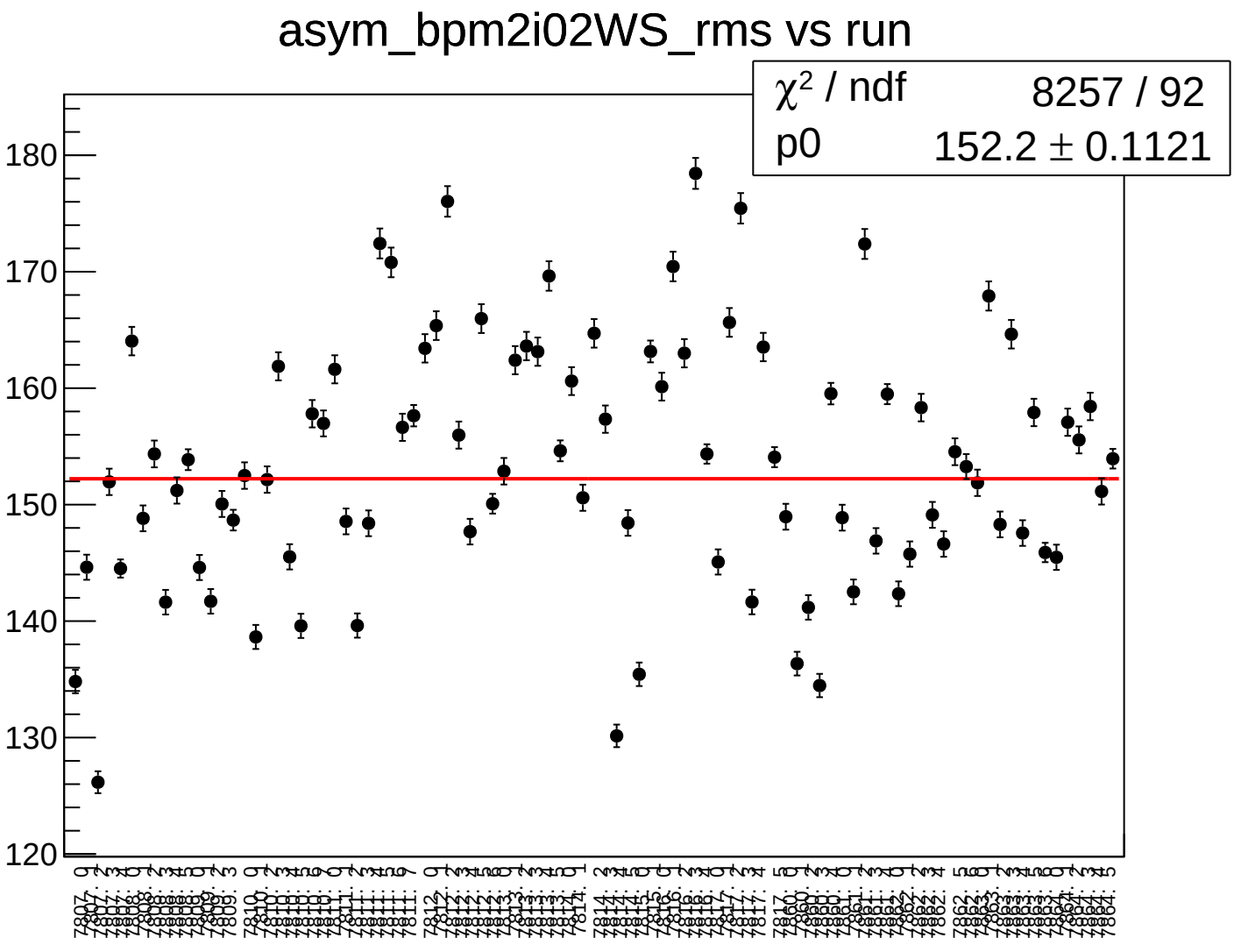

asym_bpm1i02WS_rms vs run
χ² / ndf 4250 / 92
p0 148.8 ± 0.1095
180
170
160
150
140
130

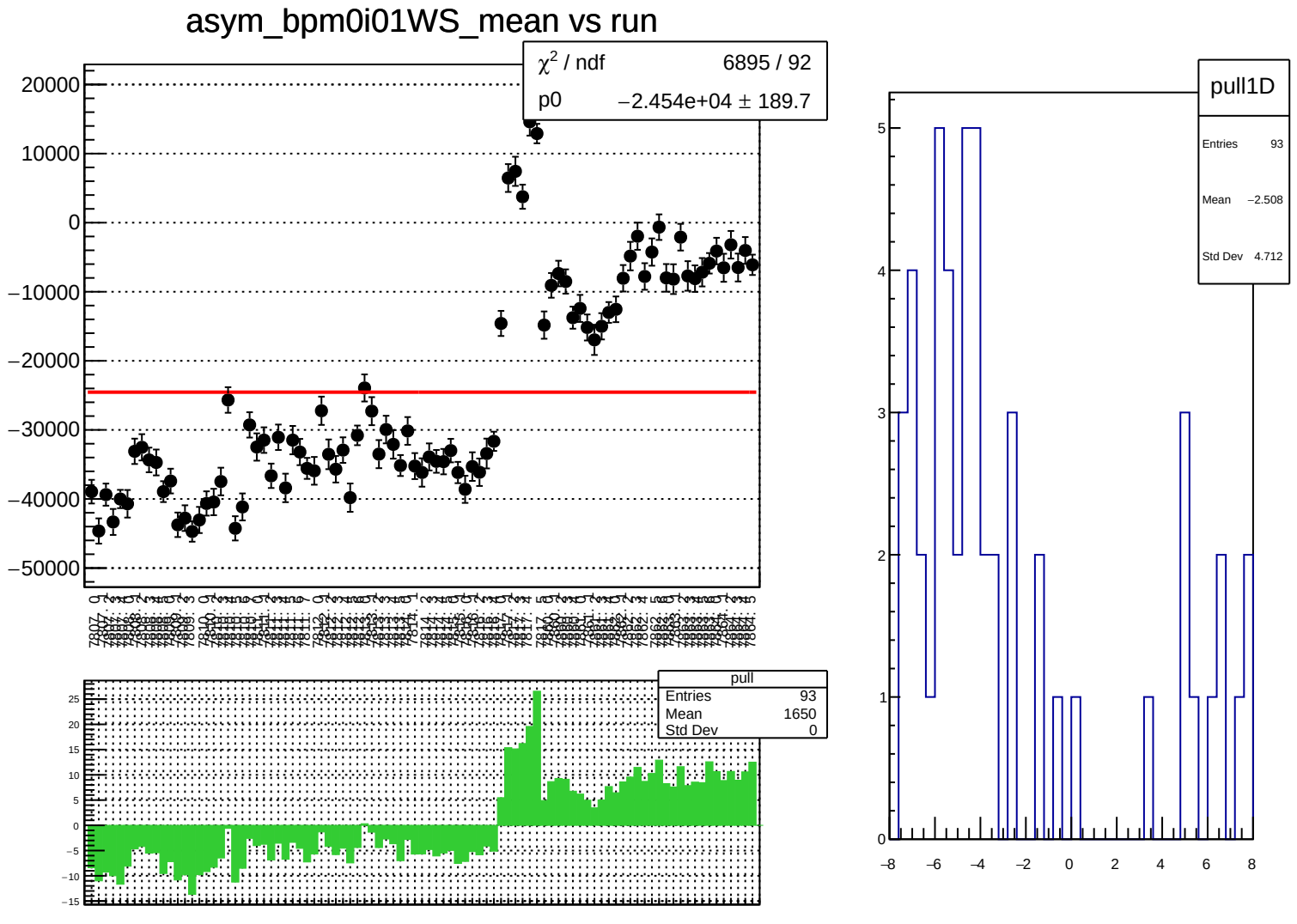

asym_bpm2i01WS_mean vs run
χ² / ndf 7604 / 92
p0 −2.097e+04 ± 152.4
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean −3918
Std Dev 0
25
20
15
10
5
0
−5
−10
−15

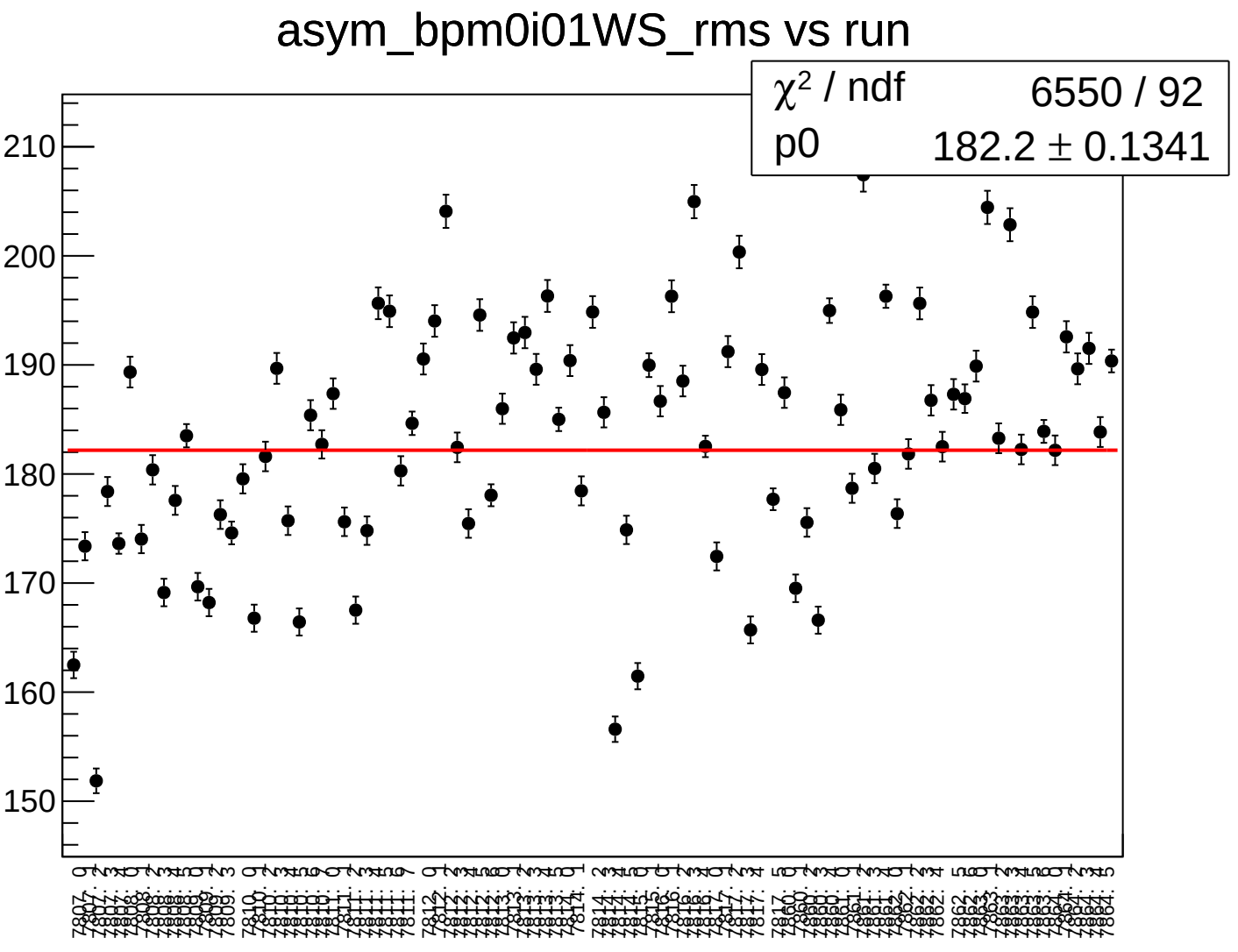

pull1D
Entries 93
Mean −3.416
Std Dev 4.495
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

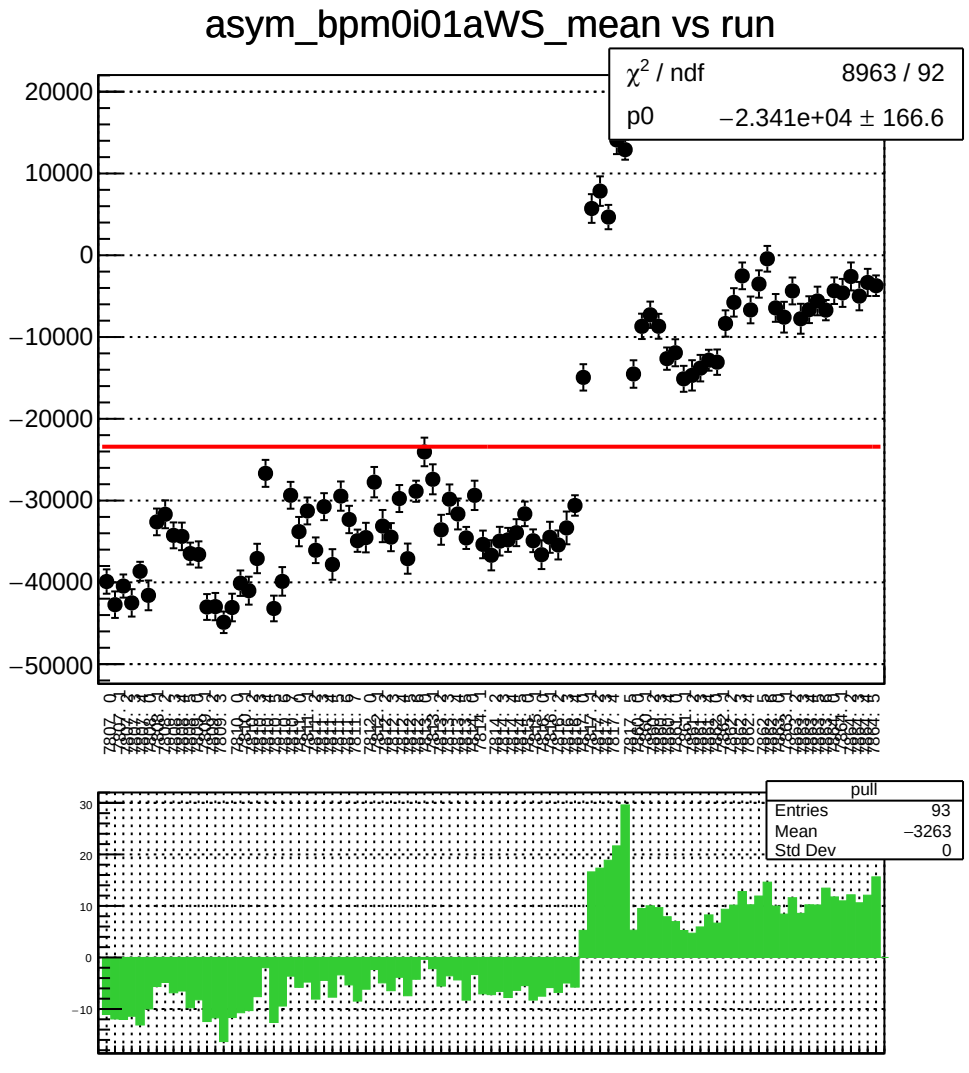

asym_bpm2i01WS_rms vs run
χ² / ndf 6123 / 92
p0 146.4 ± 0.1077
170
160
150
140
130
120

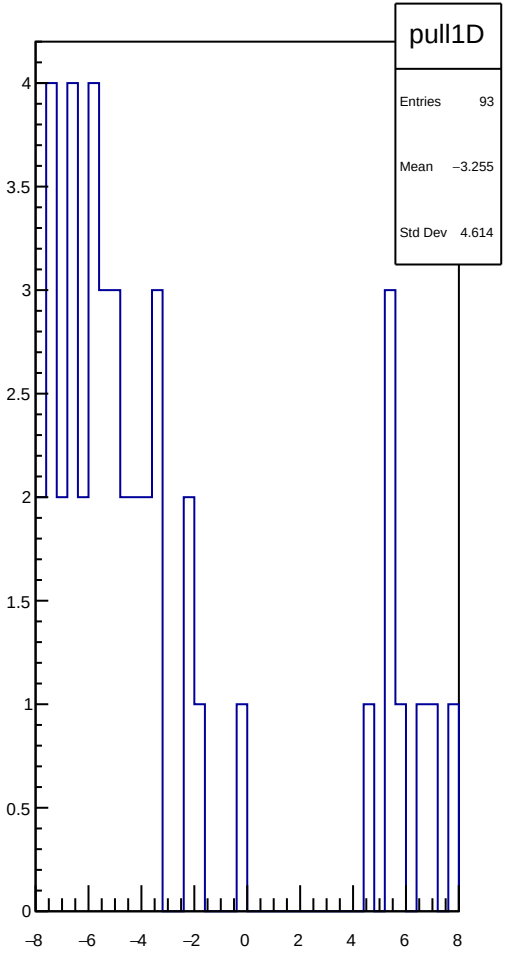

asym_bpm2i02WS_mean vs run
χ² / ndf 7203 / 92
p0 −2.141e+04 ± 158.6
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean −1.291e+04
Std Dev 0
25
20
15
10
5
0
−5
−10
−15
pull1D
Entries 93
Mean −3.613
Std Dev 4.418
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

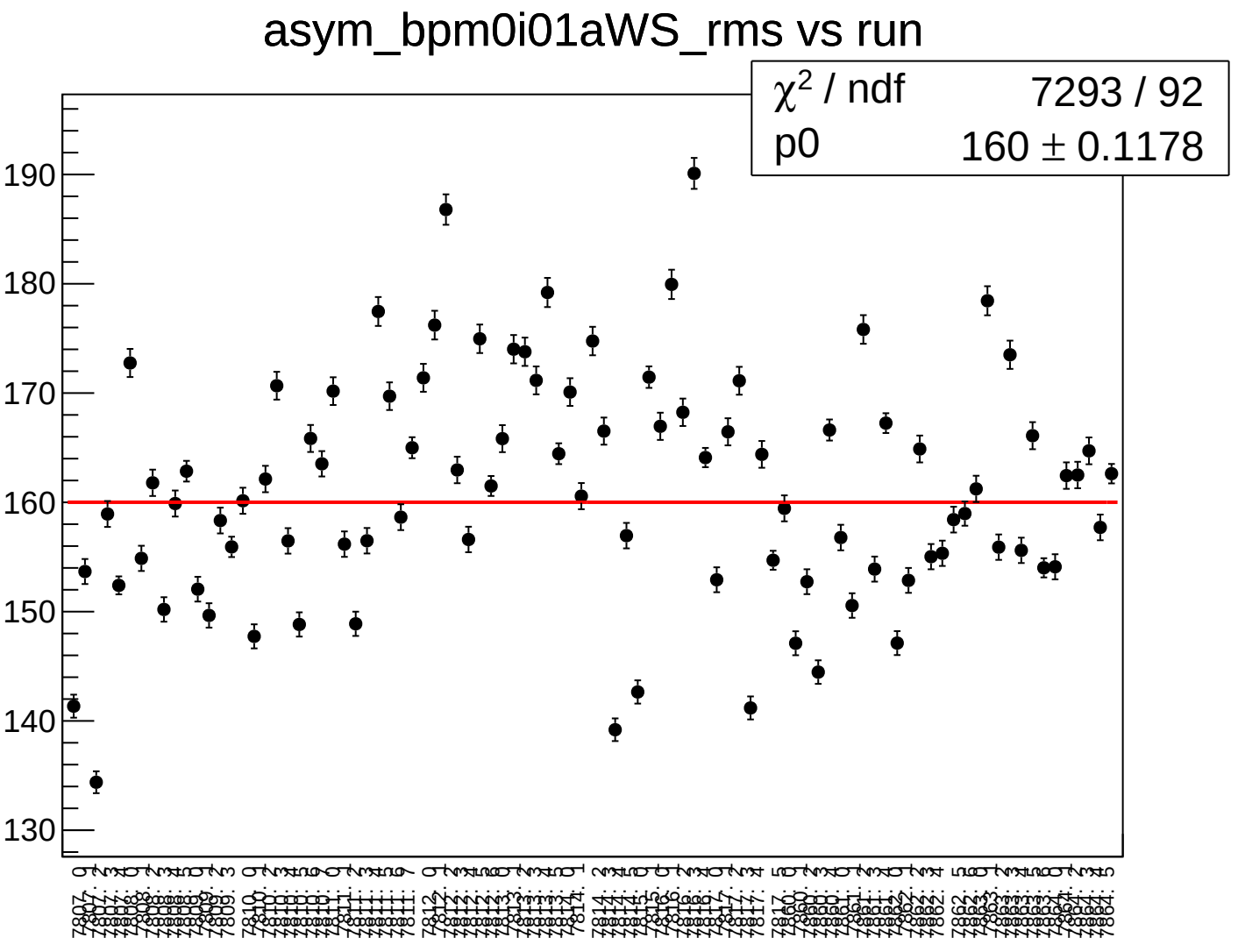

asym_bpm2i02WS_rms vs run
χ² / ndf 8257 / 92
p0 152.2 ± 0.1121
180
170
160
150
140
130
120

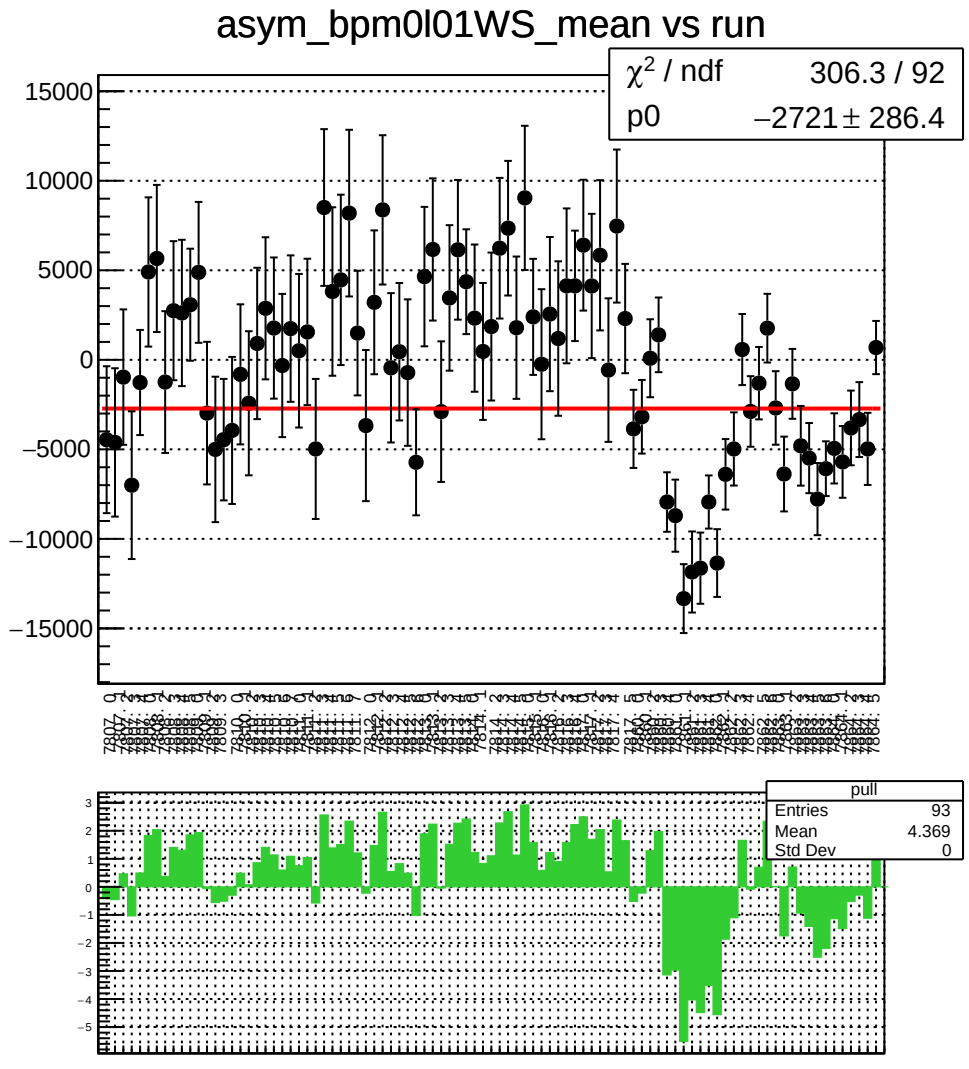

asym_bpm0i01WS_mean vs run
χ² / ndf 6895 / 92
p0 −2.454e+04 ± 189.7
pull
Entries 93
Mean 1650
Std Dev 0
pull1D
Entries 93
Mean −2.508
Std Dev 4.712

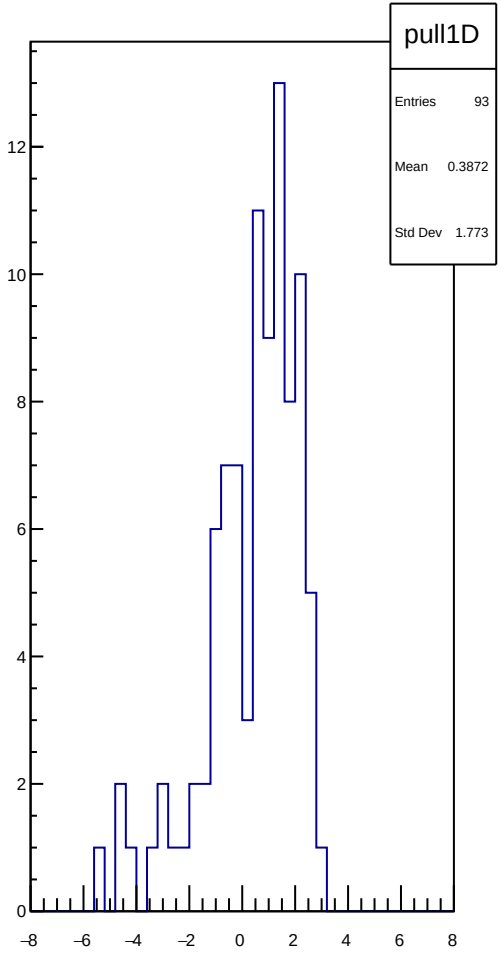

asym_bpm0i01WS_rms vs run
χ² / ndf 6550 / 92
p0 182.2 ± 0.1341
210
200
190
180
170
160
150

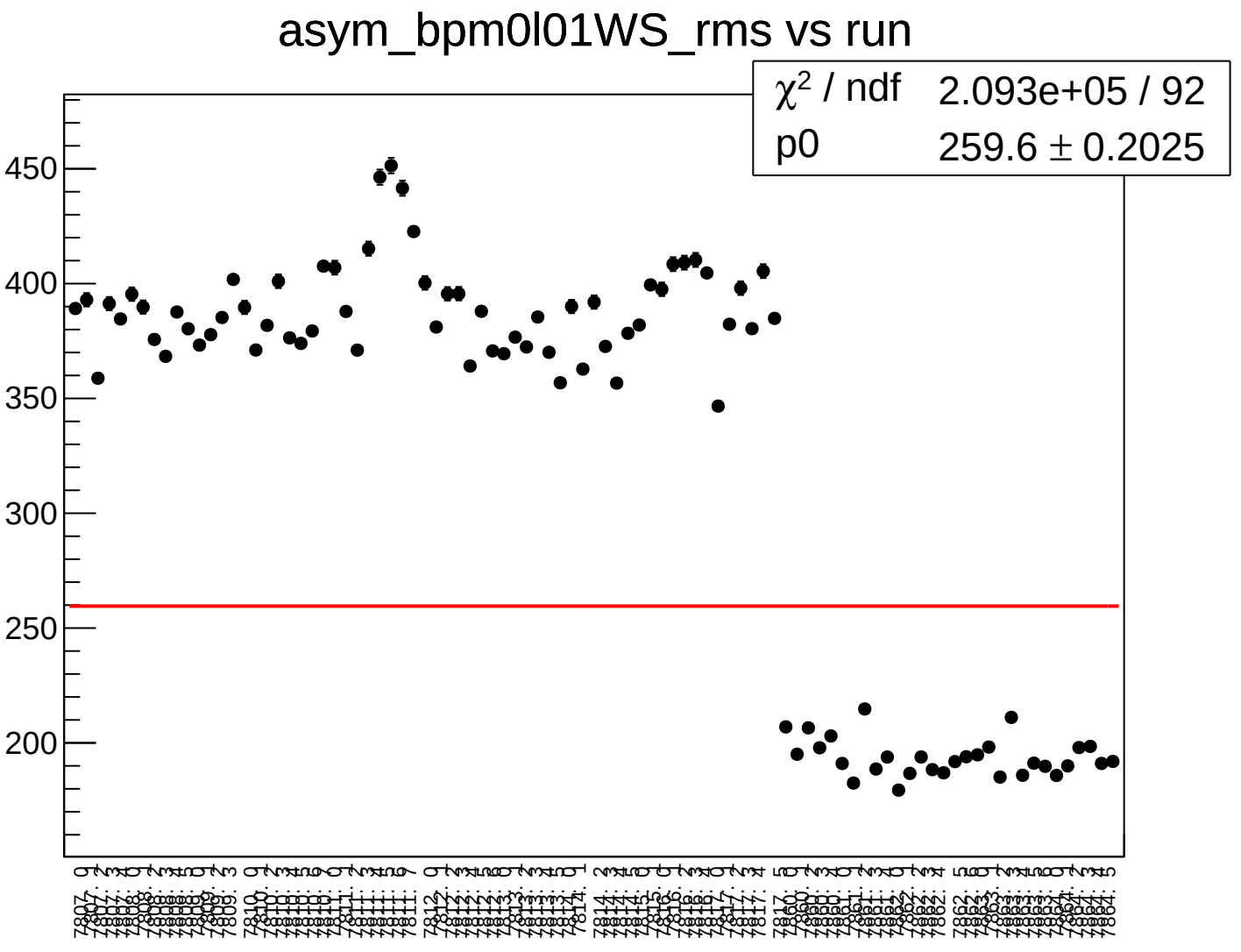

asym_bpm0i01aWS_mean vs run
χ² / ndf 8963 / 92
p0 −2.341e+04 ± 166.6
20000
10000
0
−10000
−20000
−30000
−40000
−50000
pull
Entries 93
Mean −3263
Std Dev 0
30
20
10
0
−10

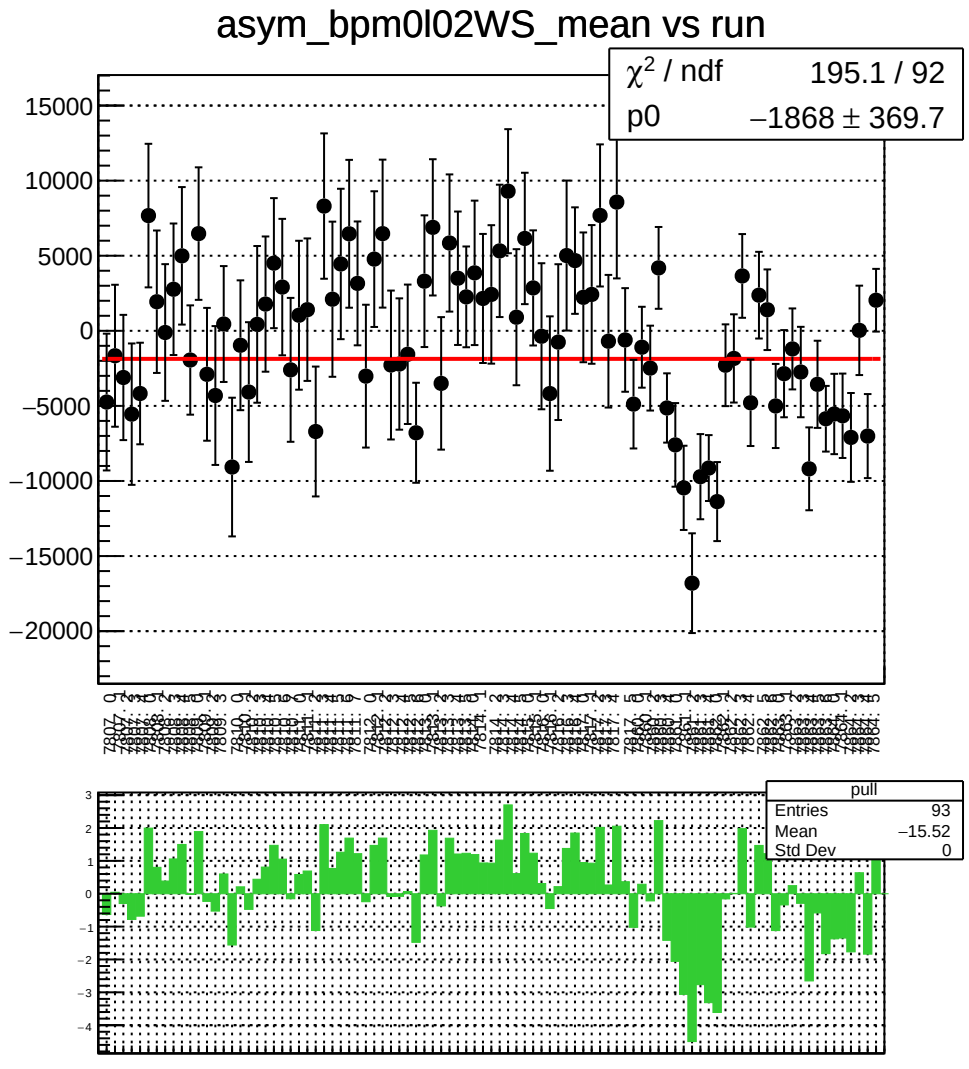

pull1D
Entries 93
Mean −3.255
Std Dev 4.614
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

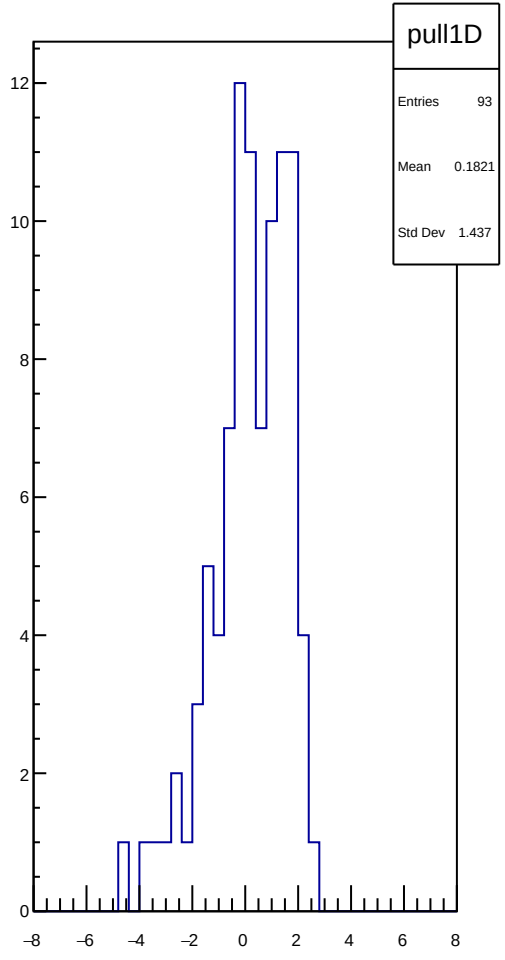

asym_bpm0i01aWS_rms vs run
χ^2 / ndf 7293 / 92
p0 160 ± 0.1178
190
180
170
160
150
140
130

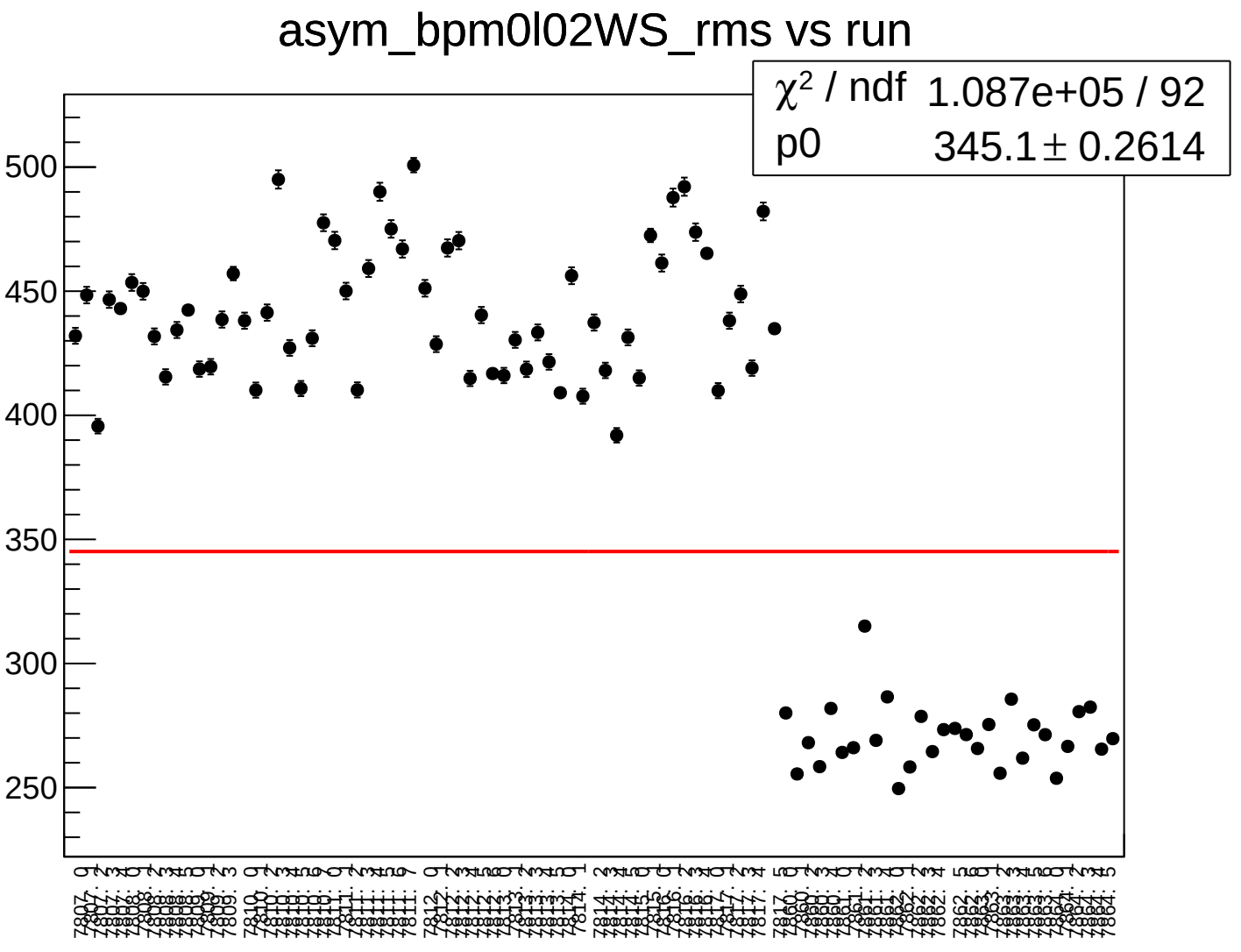

asym_bpm0l01WS_mean vs run
χ² / ndf 306.3 / 92
p0 −2721 ± 286.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean 4.369
Std Dev 0
3
2
1
0
−1
−2
−3
−4
−5

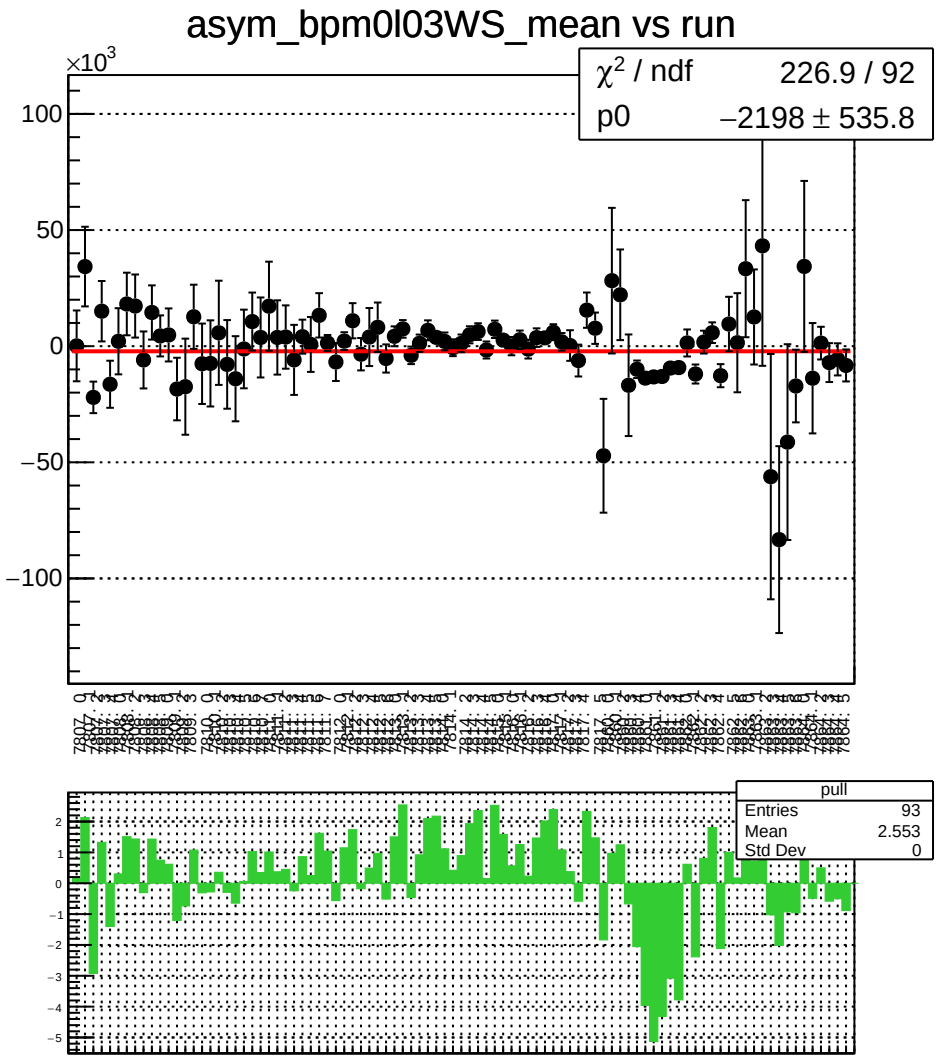

pull1D
Entries 93
Mean 0.3872
Std Dev 1.773
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

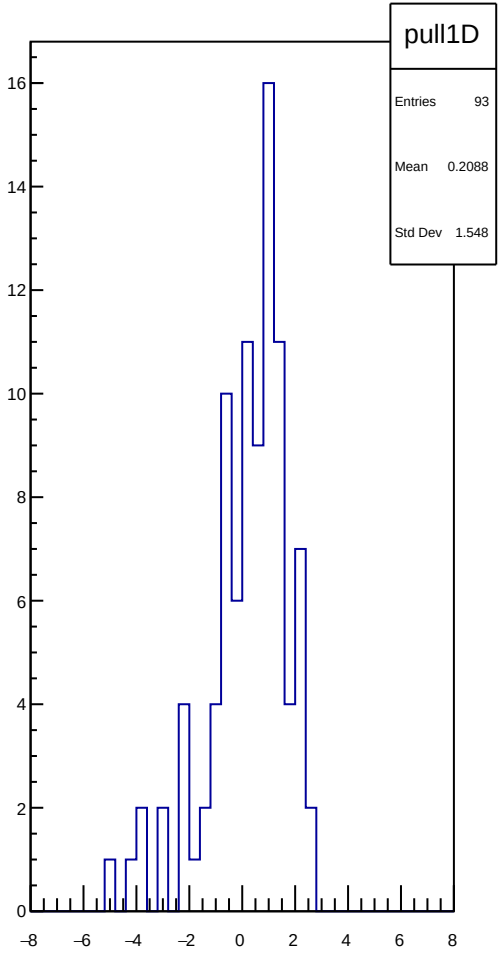

asym_bpm0l01WS_rms vs run
χ² / ndf 2.093e+05 / 92
p0 259.6 ± 0.2025
450
400
350
300
250
200

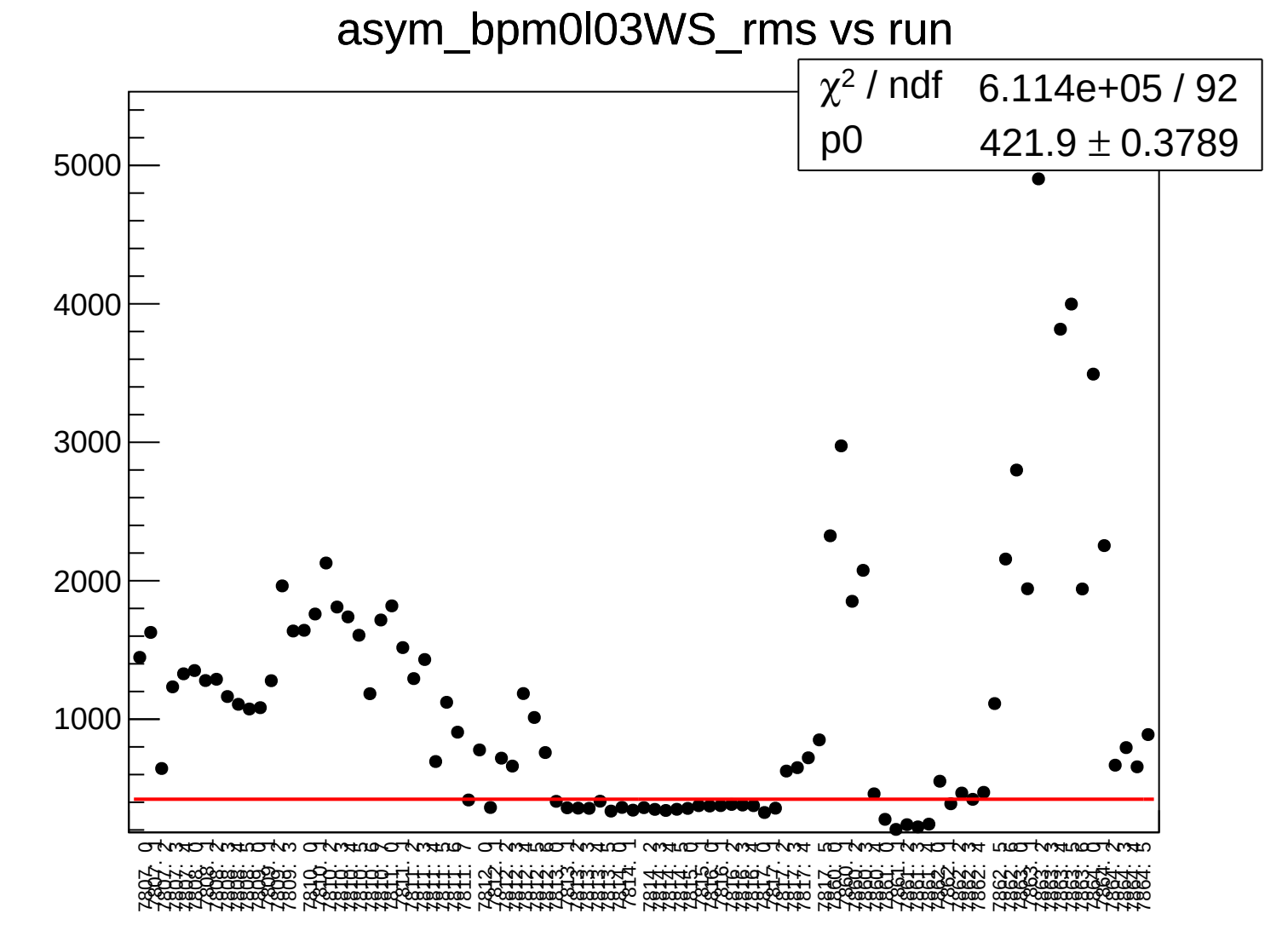

asym_bpm0l02WS_mean vs run
χ² / ndf 195.1 / 92
p0 −1868 ± 369.7
pull
Entries 93
Mean −15.52
Std Dev 0

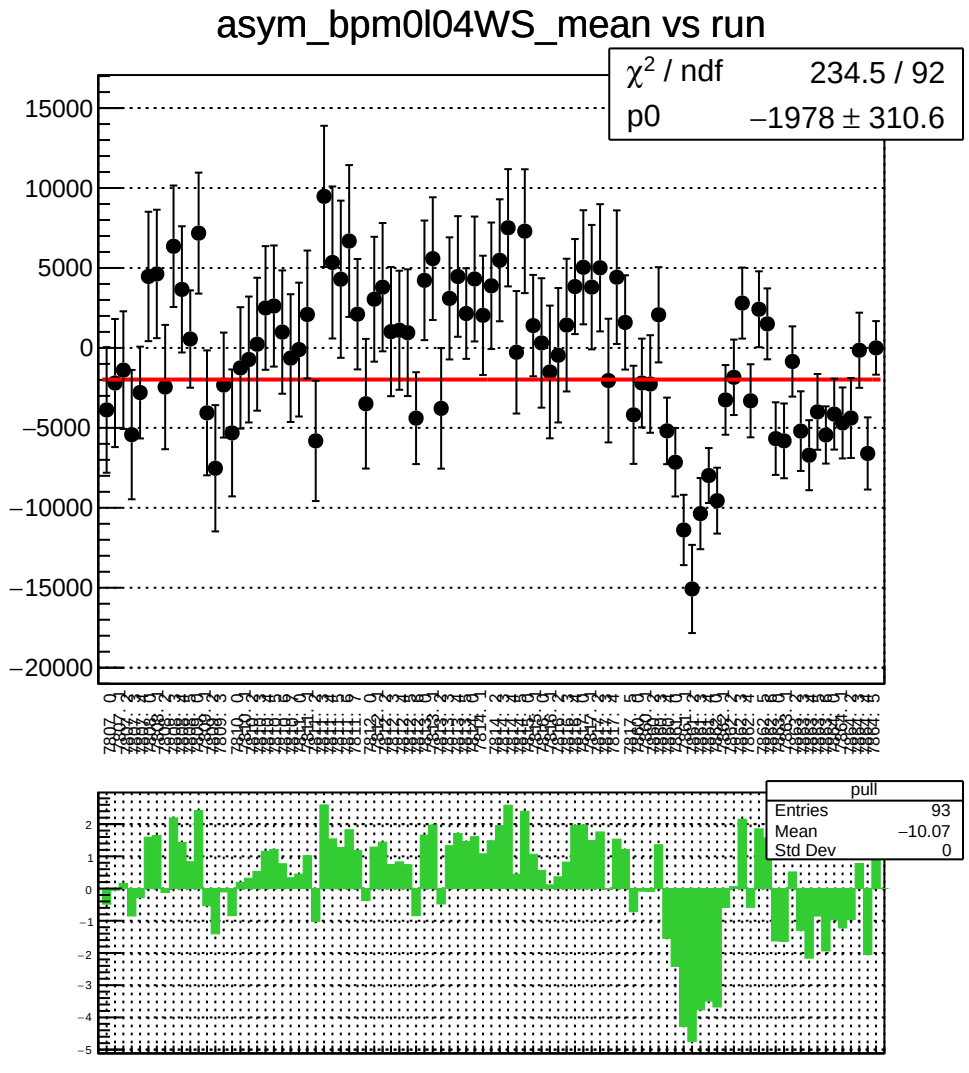

pull1D
Entries 93
Mean 0.1821
Std Dev 1.437

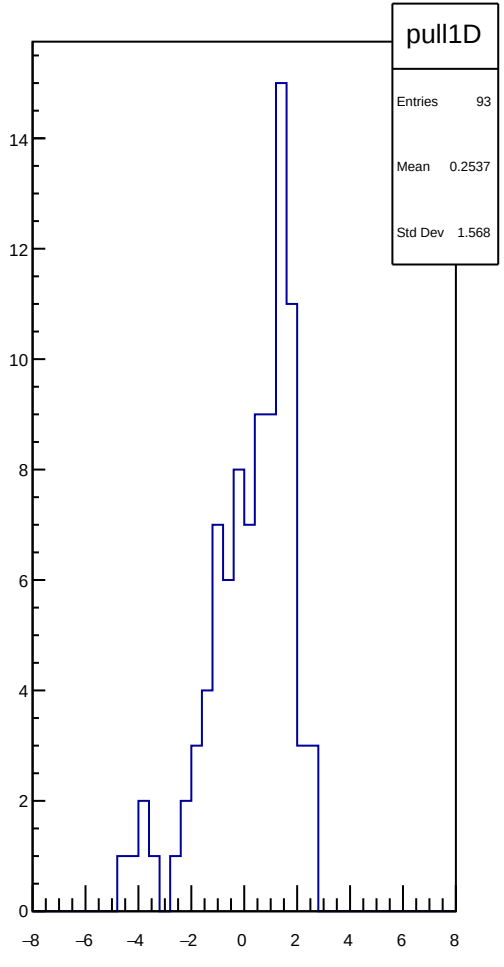

asym_bpm0l02WS_rms vs run
χ² / ndf 1.087e+05 / 92
p0 345.1 ± 0.2614
500
450
400
350
300
250

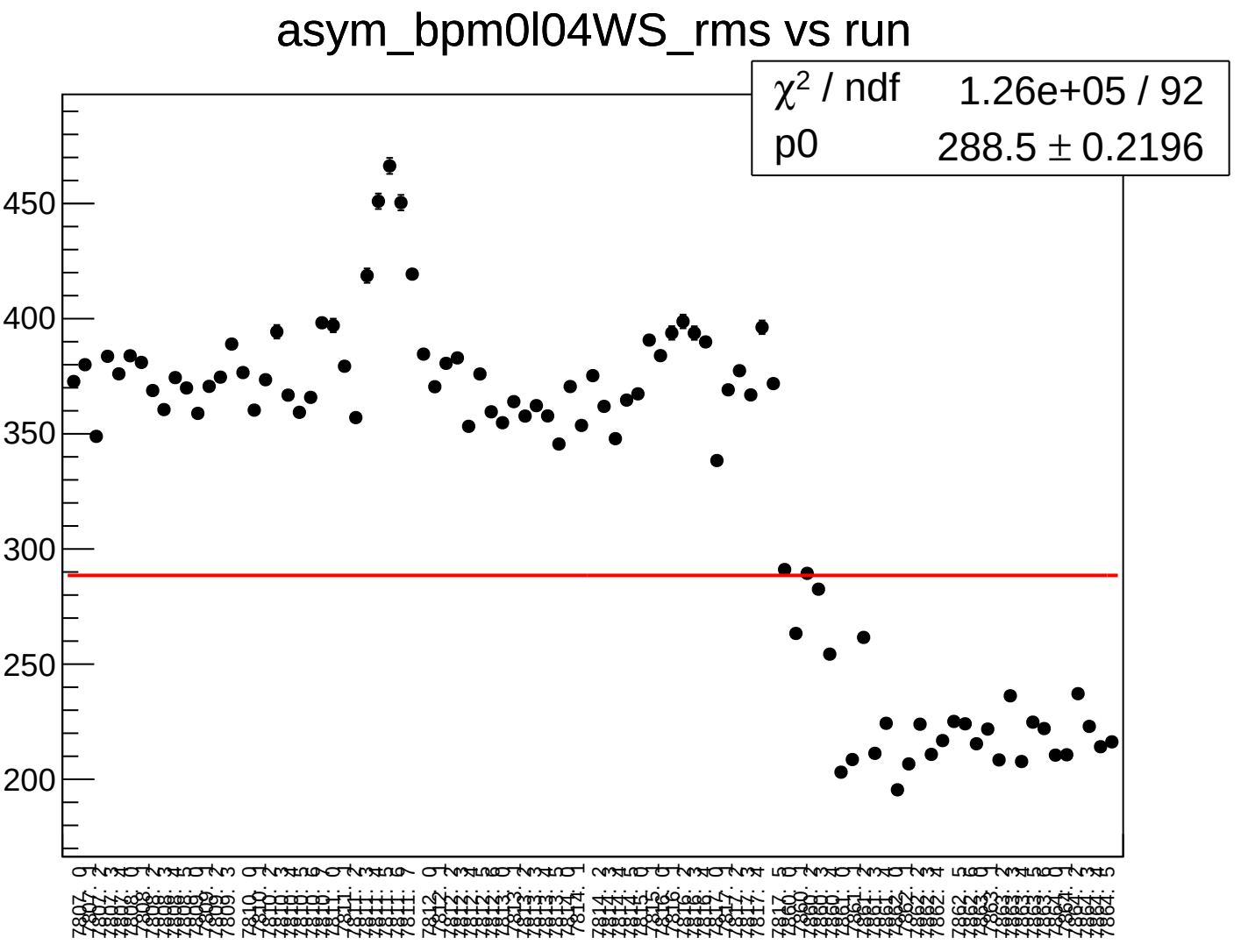

asym_bpm0l03WS_mean vs run
×10^3
χ² / ndf 226.9 / 92
p0 −2198 ± 535.8
100
50
0
−50
−100
pull
Entries 93
Mean 2.553
Std Dev 0
2
1
0
−1
−2
−3
−4
−5

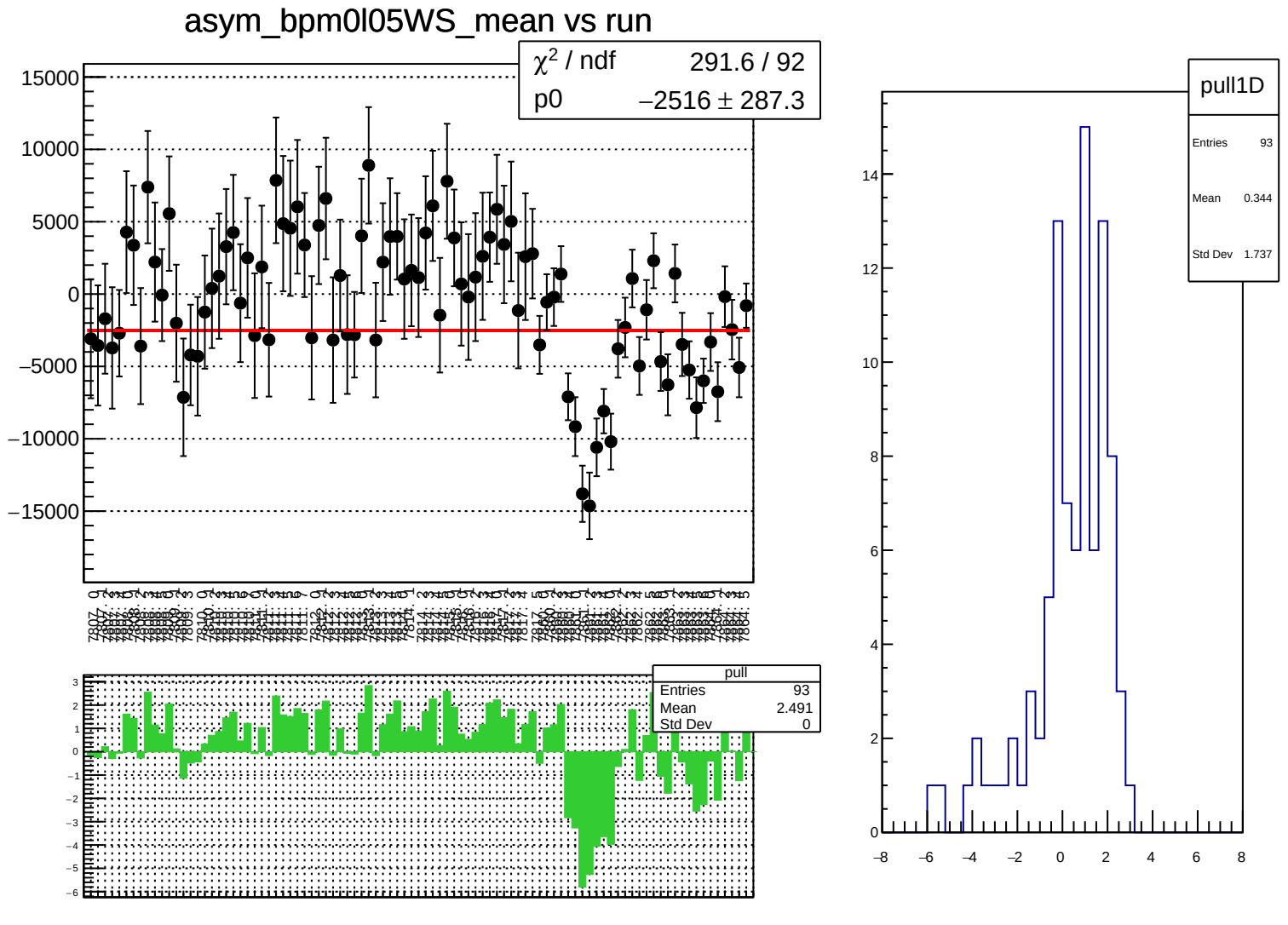

pull1D
Entries 93
Mean 0.2088
Std Dev 1.548
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

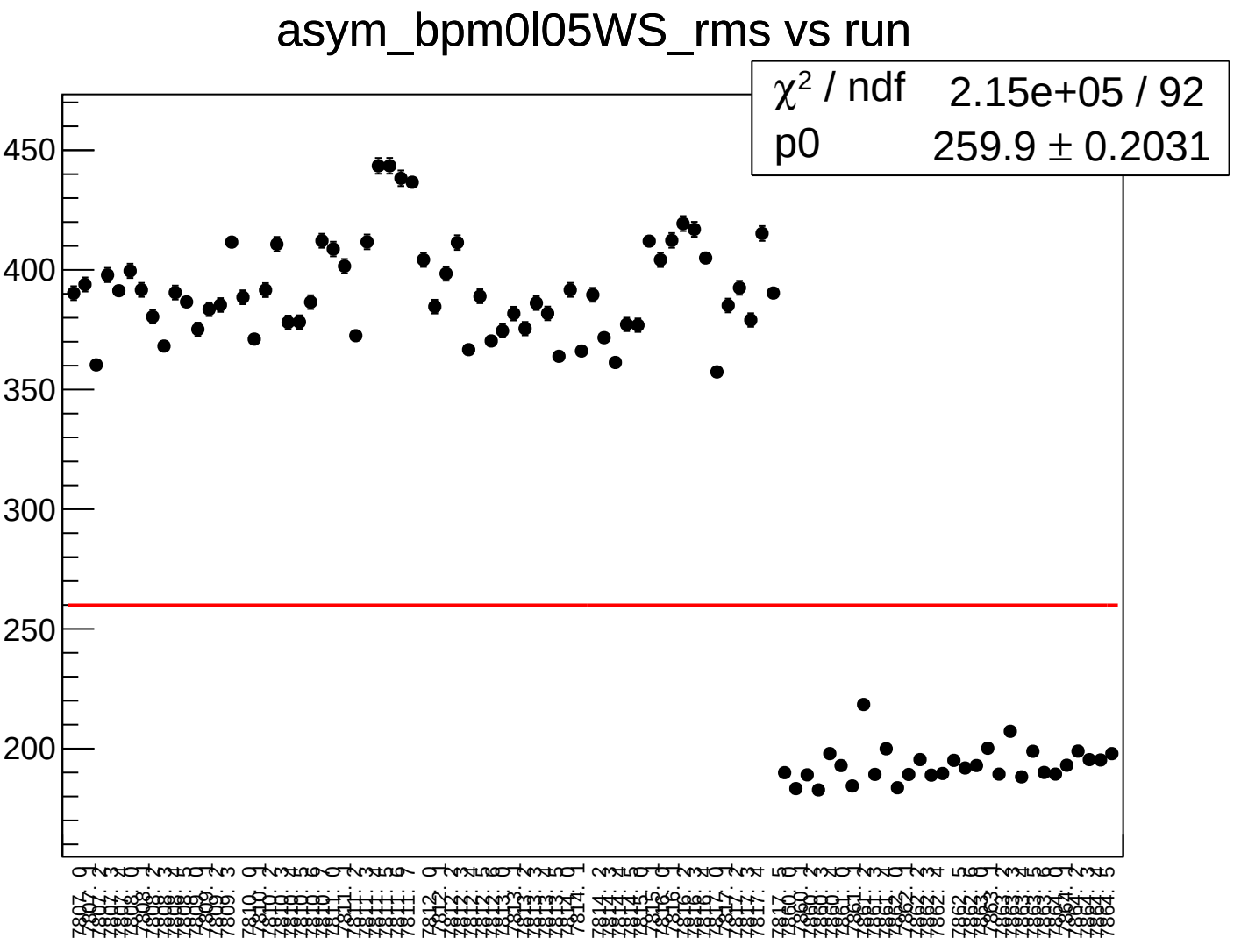

asym_bpm0l03WS_rms vs run
χ² / ndf 6.114e+05 / 92
p0 421.9 ± 0.3789
5000
4000
3000
2000
1000

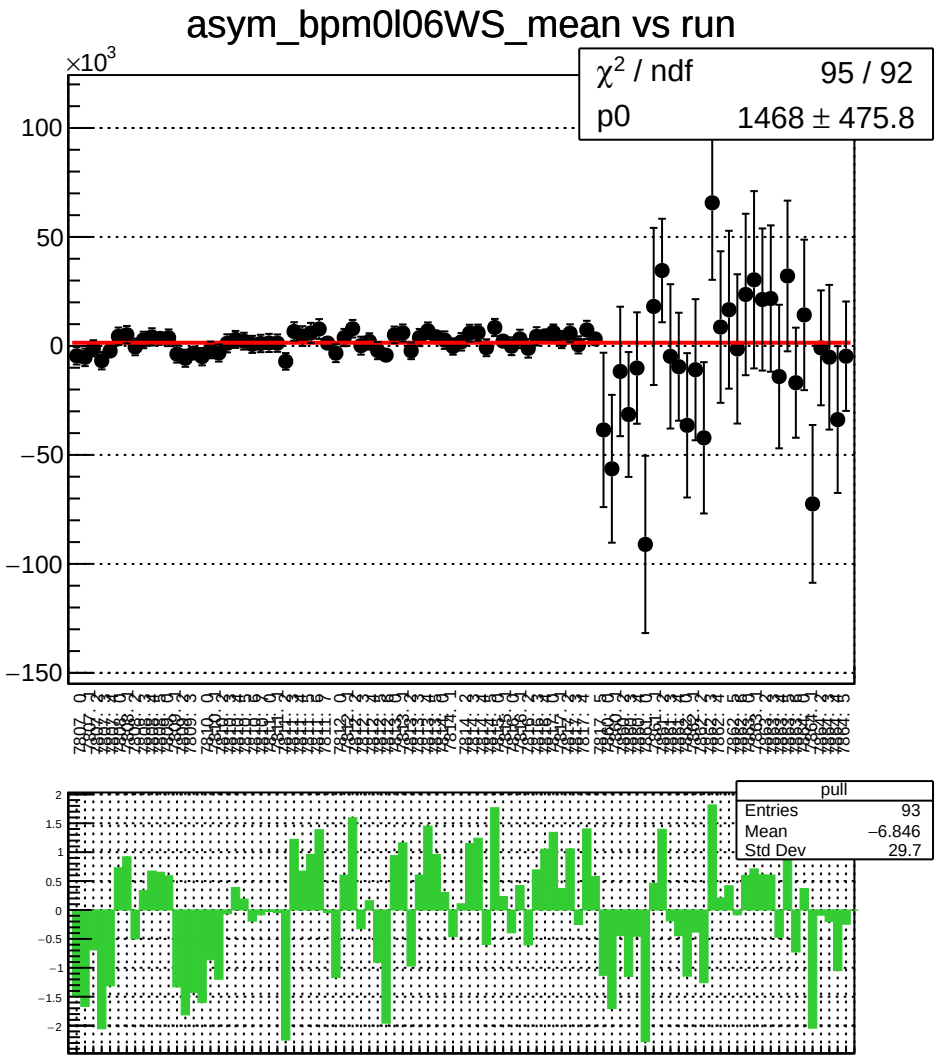

asym_bpm0l04WS_mean vs run
χ² / ndf 234.5 / 92
p0 −1978 ± 310.6
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 93
Mean −10.07
Std Dev 0
2
1
0
−1
−2
−3
−4
−5

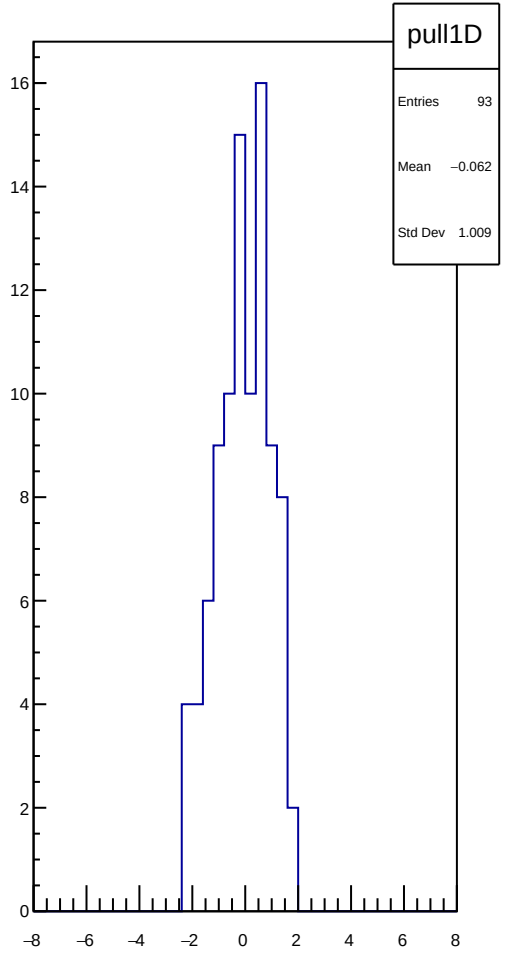

pull1D
Entries 93
Mean 0.2537
Std Dev 1.568
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

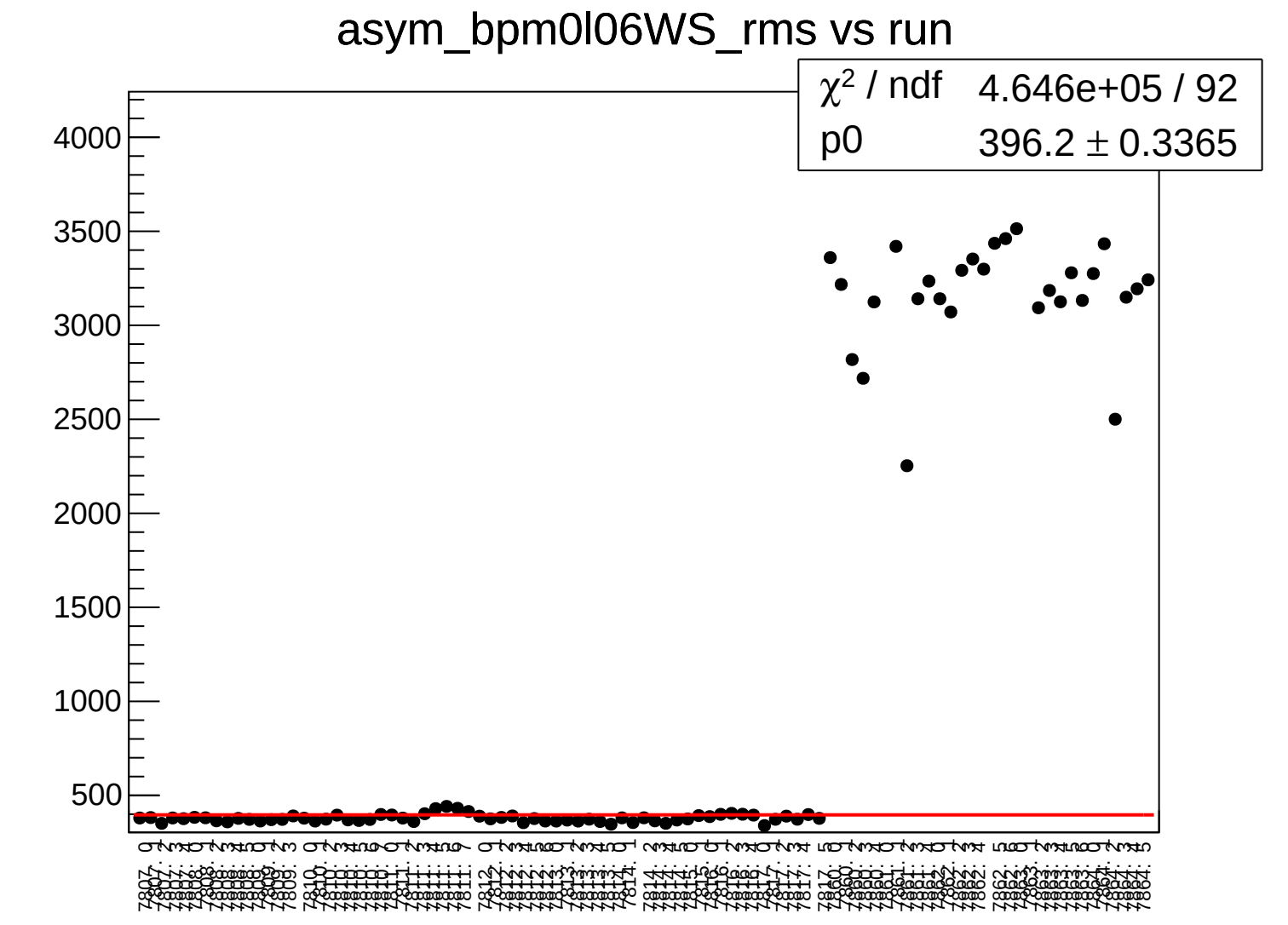

asym_bpm0l04WS_rms vs run
χ² / ndf 1.26e+05 / 92
p0 288.5 ± 0.2196
450
400
350
300
250
200

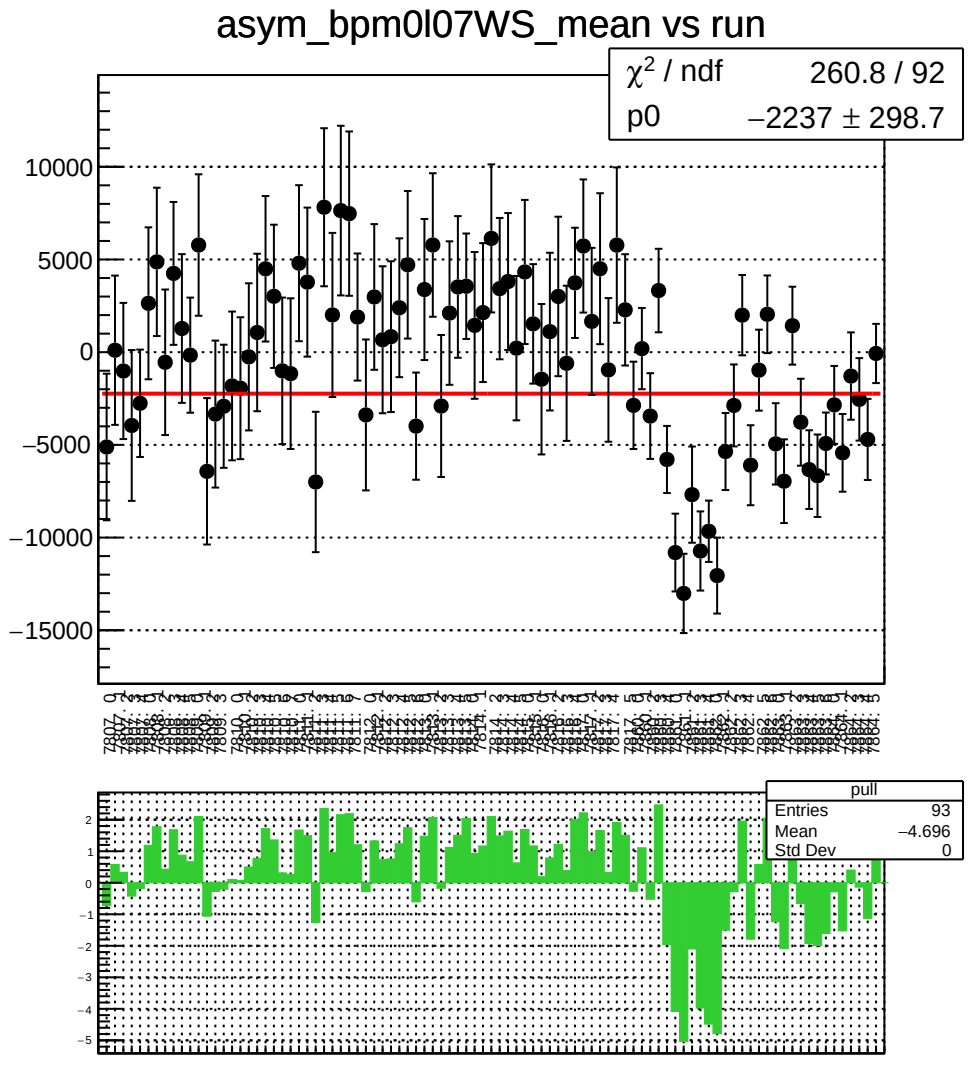

asym_bpm0l05WS_mean vs run
χ² / ndf 291.6 / 92
p0 −2516 ± 287.3
pull
Entries 93
Mean 2.491
Std Dev 0
pull1D
Entries 93
Mean 0.344
Std Dev 1.737

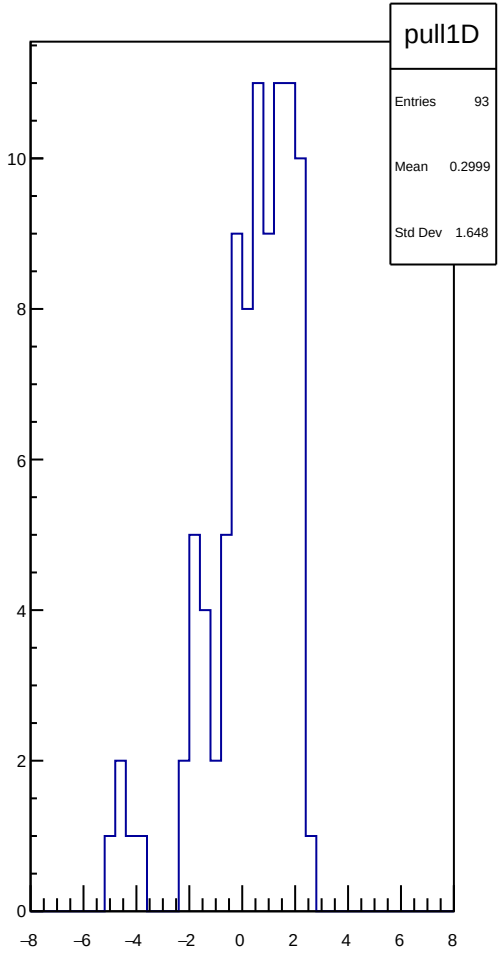

asym_bpm0l05WS_rms vs run
χ² / ndf 2.15e+05 / 92
p0 259.9 ± 0.2031
450
400
350
300
250
200

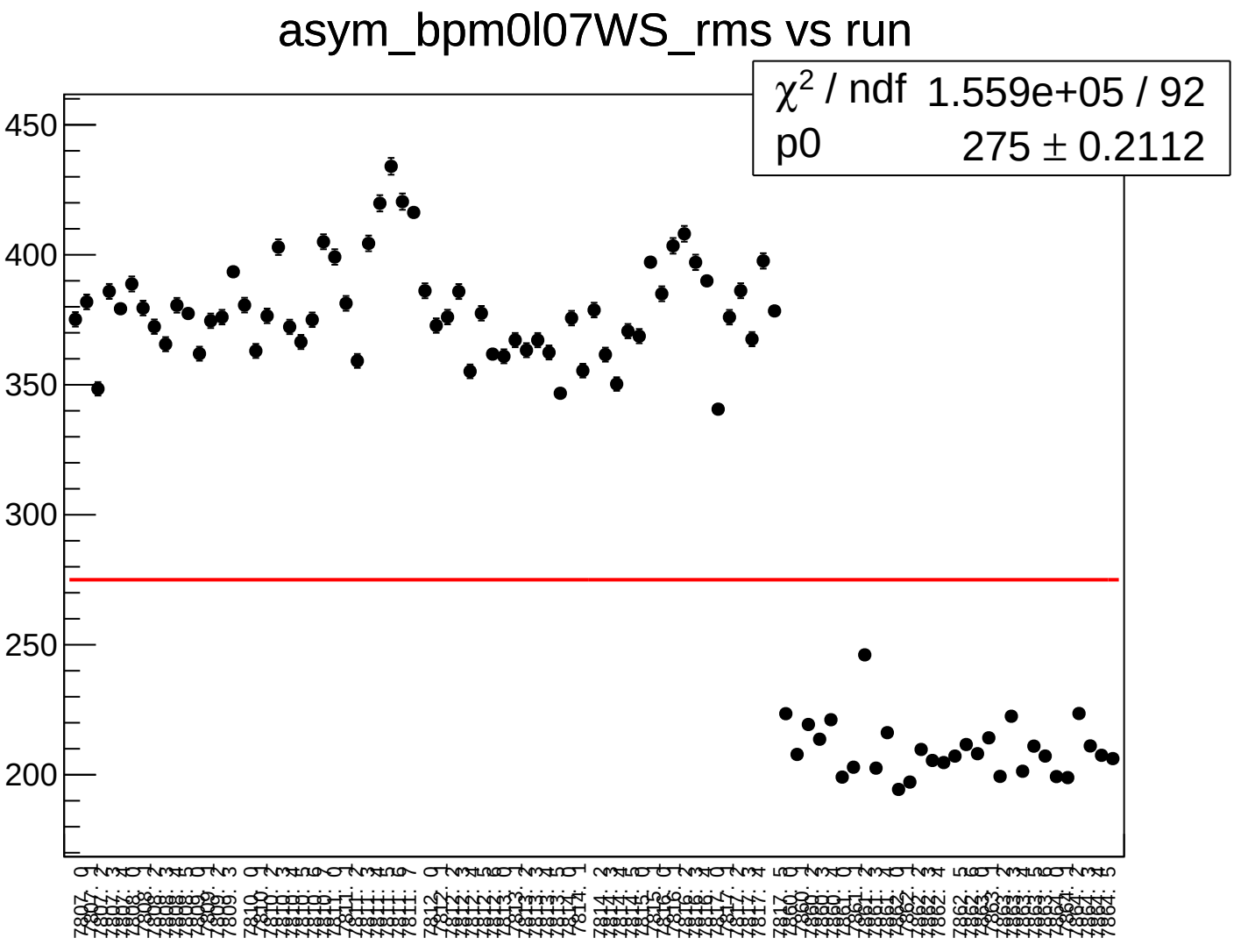

asym_bpm0l06WS_mean vs run
×10^3
χ² / ndf 95 / 92
p0 1468 ± 475.8
100
50
0
−50
−100
−150
pull
Entries 93
Mean −6.846
Std Dev 29.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

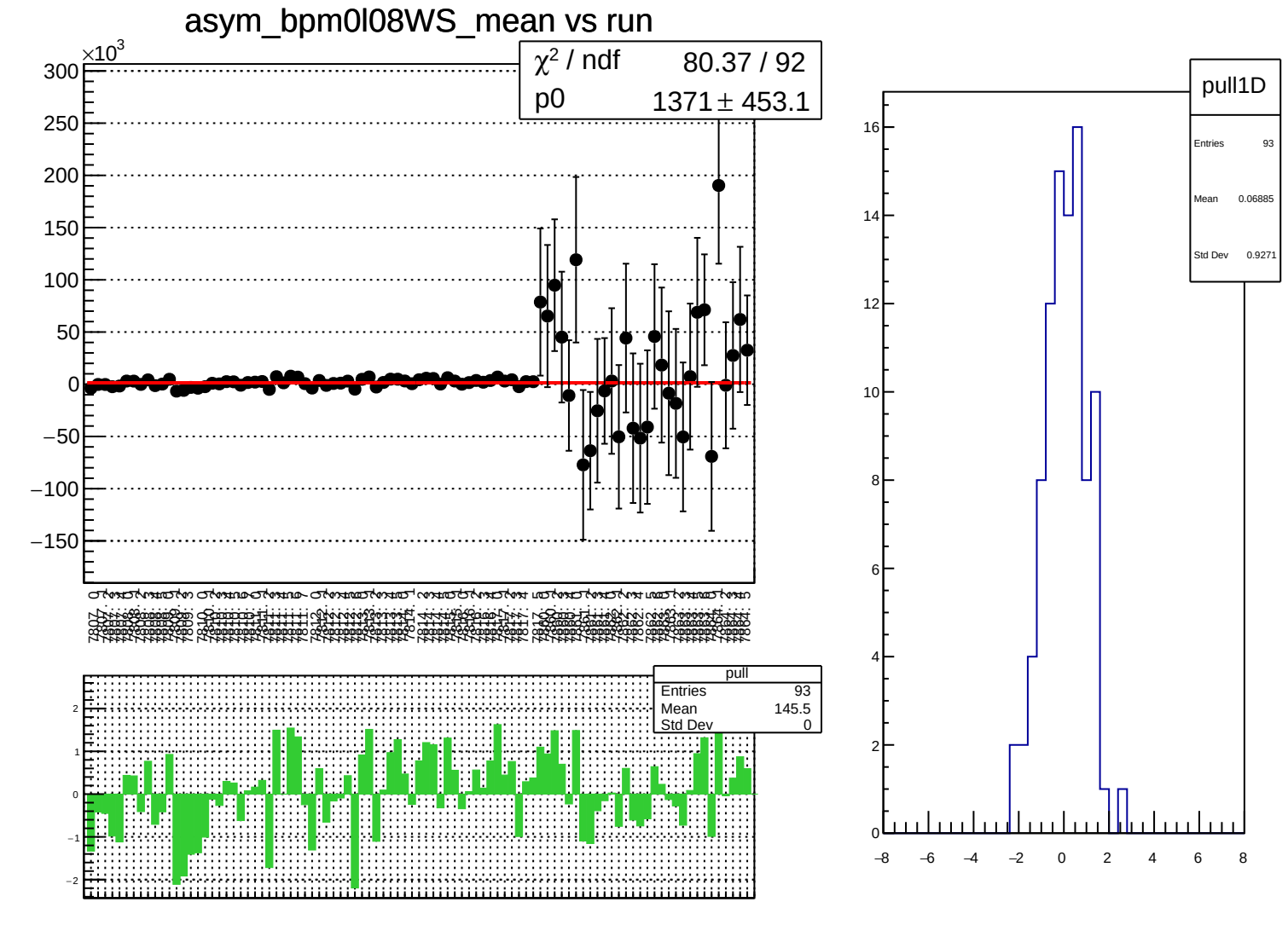

pull1D
Entries 93
Mean −0.062
Std Dev 1.009
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

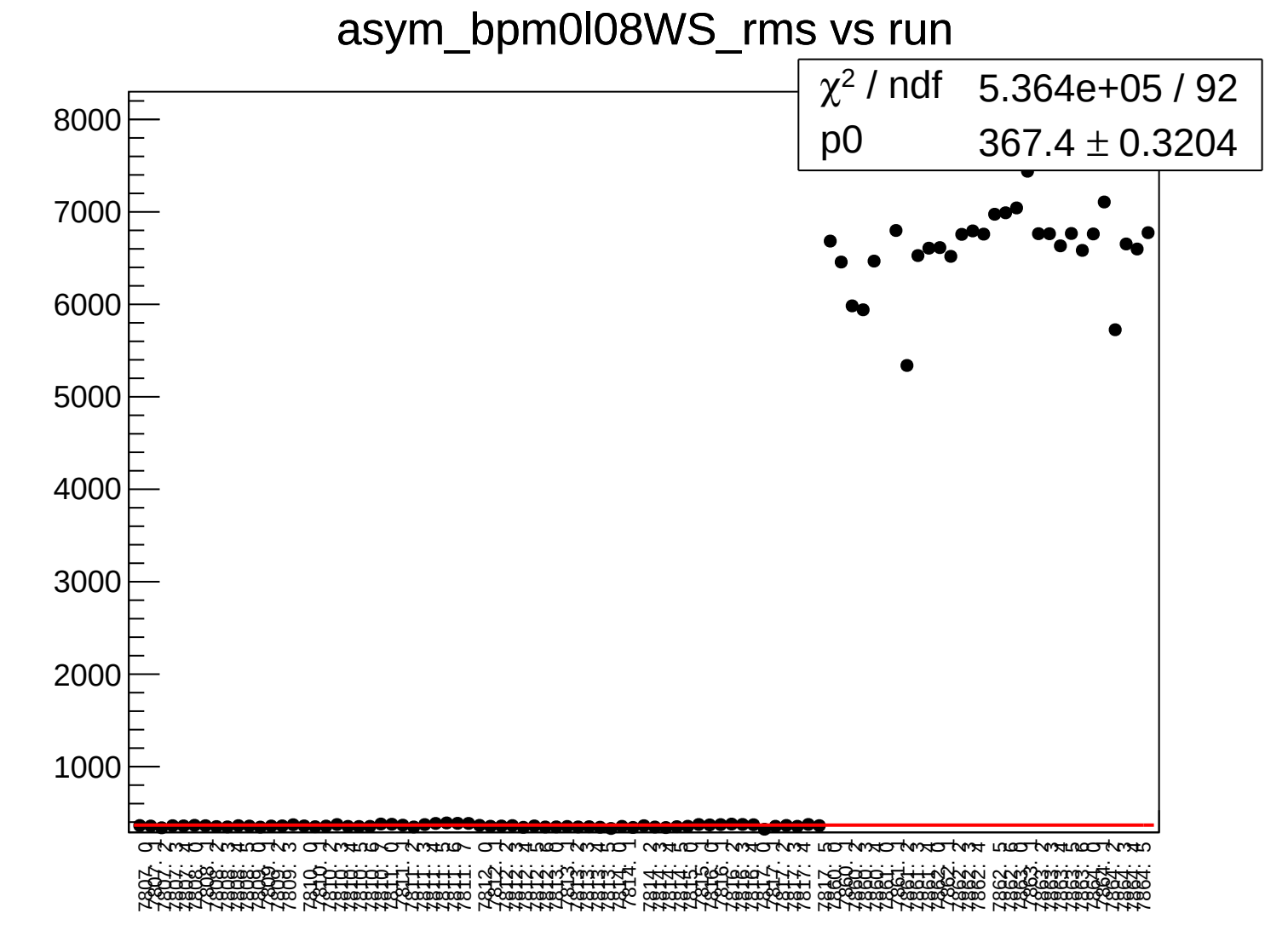

asym_bpm0l06WS_rms vs run
χ² / ndf 4.646e+05 / 92
p0 396.2 ± 0.3365
4000
3500
3000
2500
2000
1500
1000
500

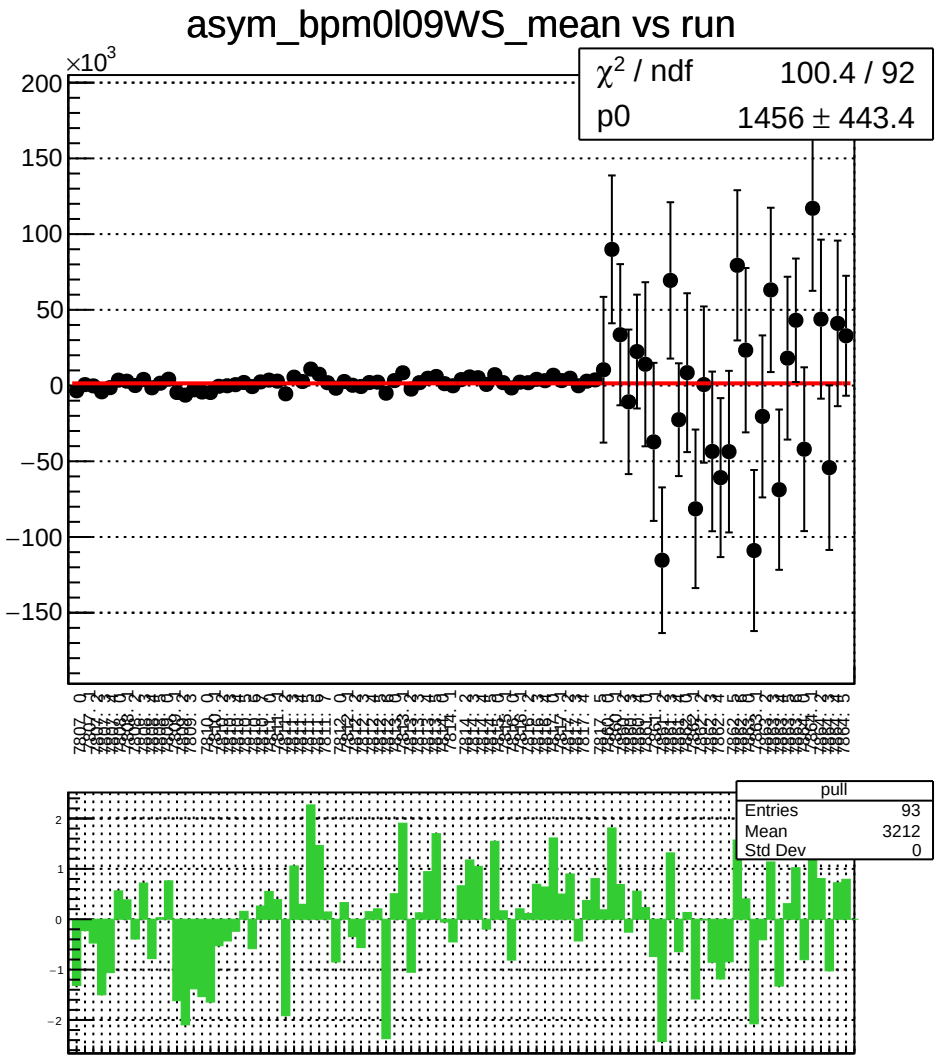

asym_bpm0l07WS_mean vs run
χ² / ndf 260.8 / 92
p0 −2237 ± 298.7
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean −4.696
Std Dev 0
2
1
0
−1
−2
−3
−4
−5

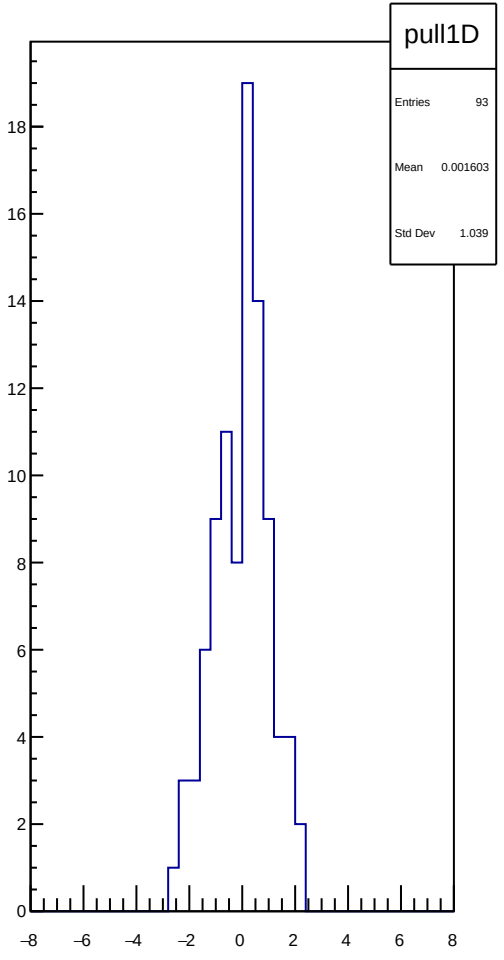

pull1D
Entries 93
Mean 0.2999
Std Dev 1.648
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

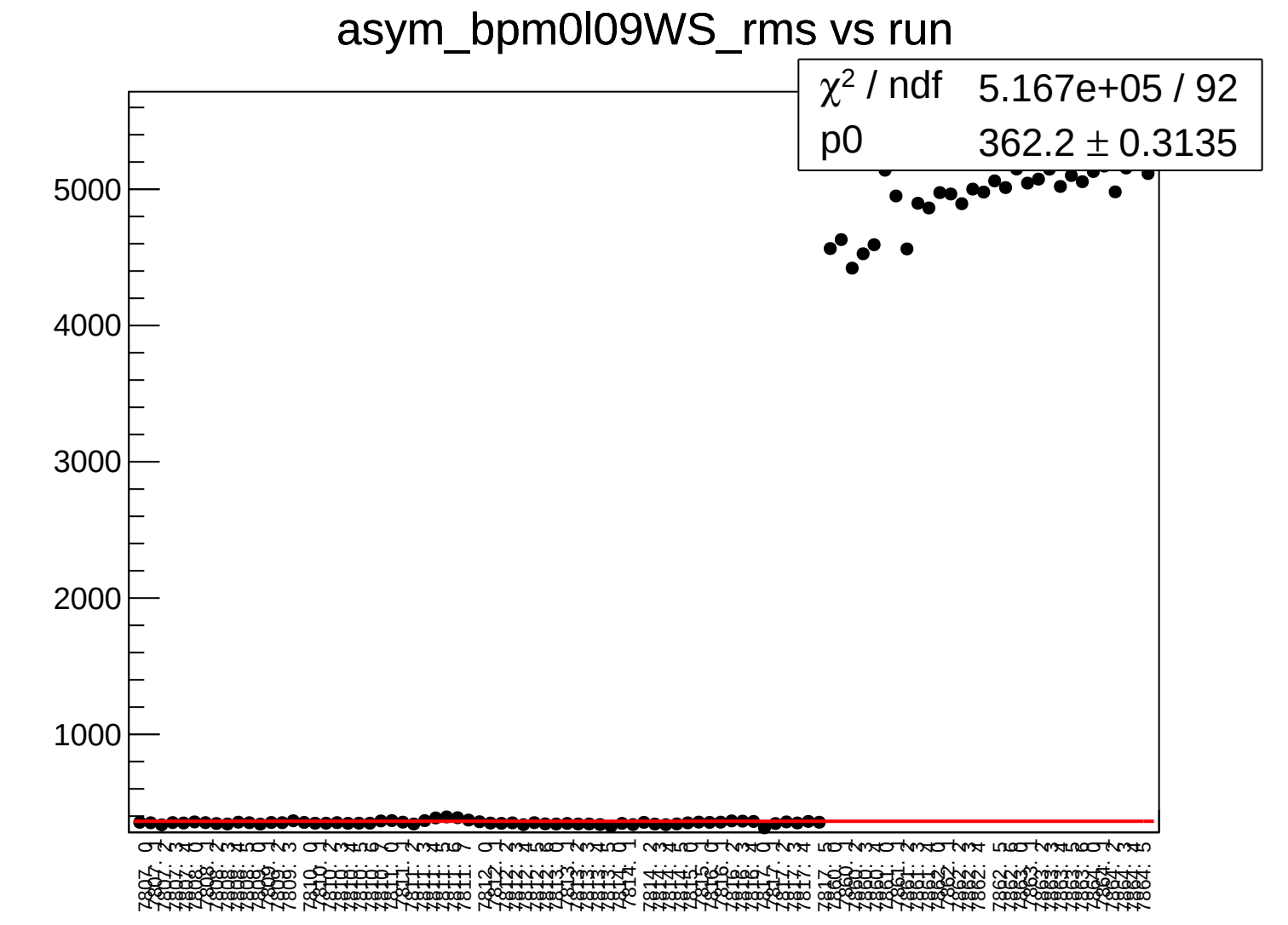

asym_bpm0l07WS_rms vs run
χ^2 / ndf 1.559e+05 / 92
p0 275 ± 0.2112
450
400
350
300
250
200

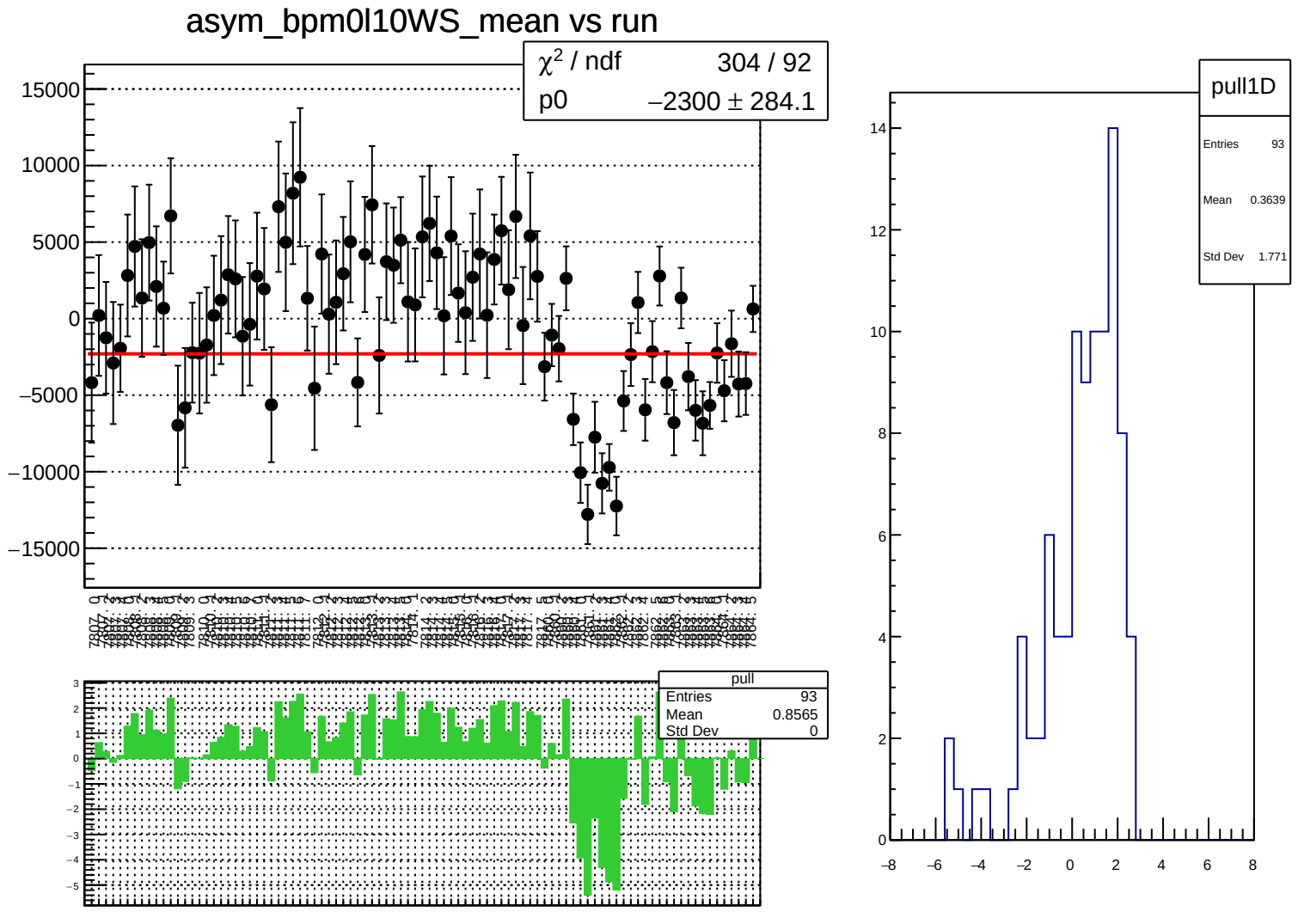

asym_bpm0l08WS_mean vs run
χ² / ndf 80.37 / 92
p0 1371 ± 453.1
×10³
300
250
200
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean 145.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.06885
Std Dev 0.9271
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

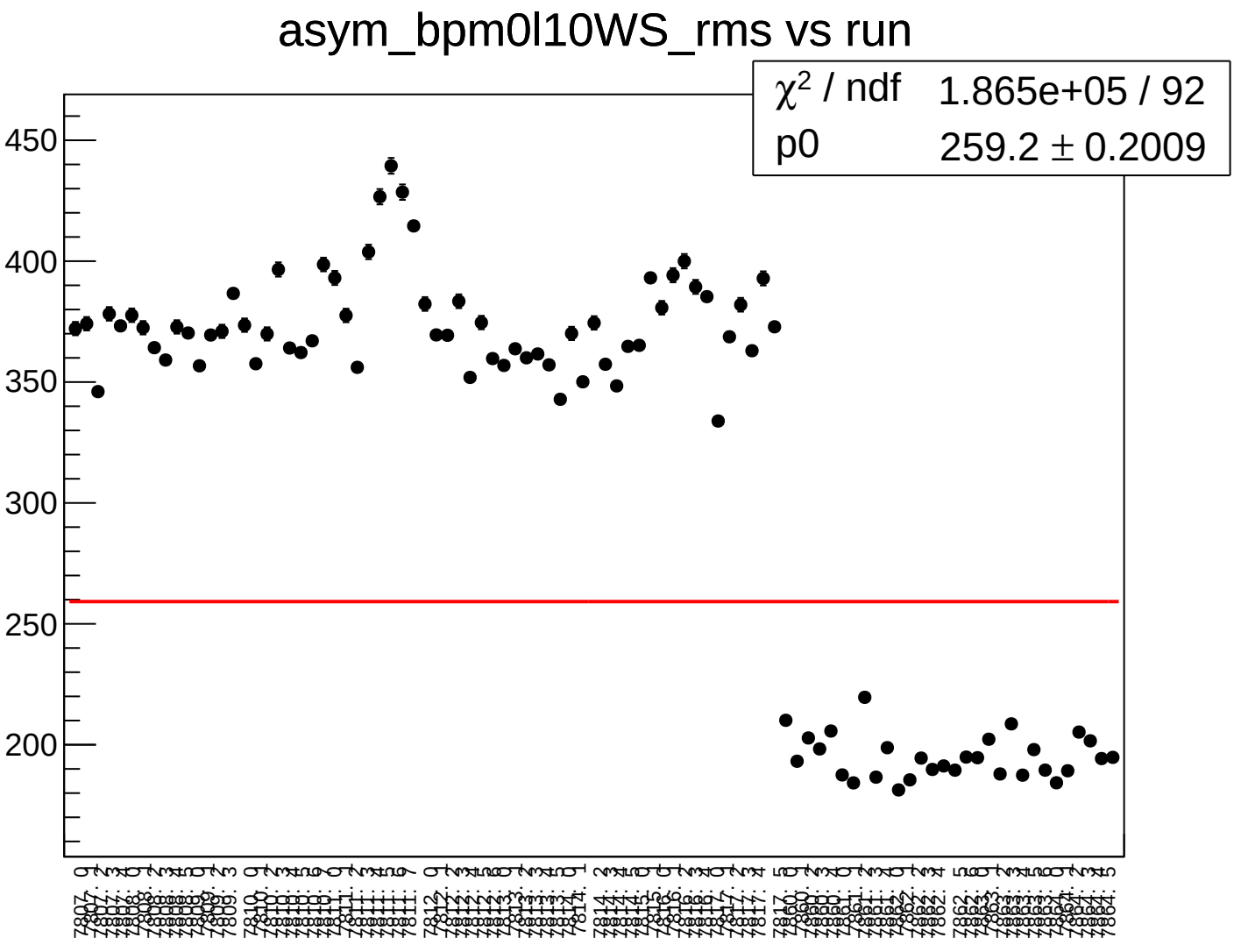

asym_bpm0l08WS_rms vs run
χ² / ndf 5.364e+05 / 92
p0 367.4 ± 0.3204
8000
7000
6000
5000
4000
3000
2000
1000

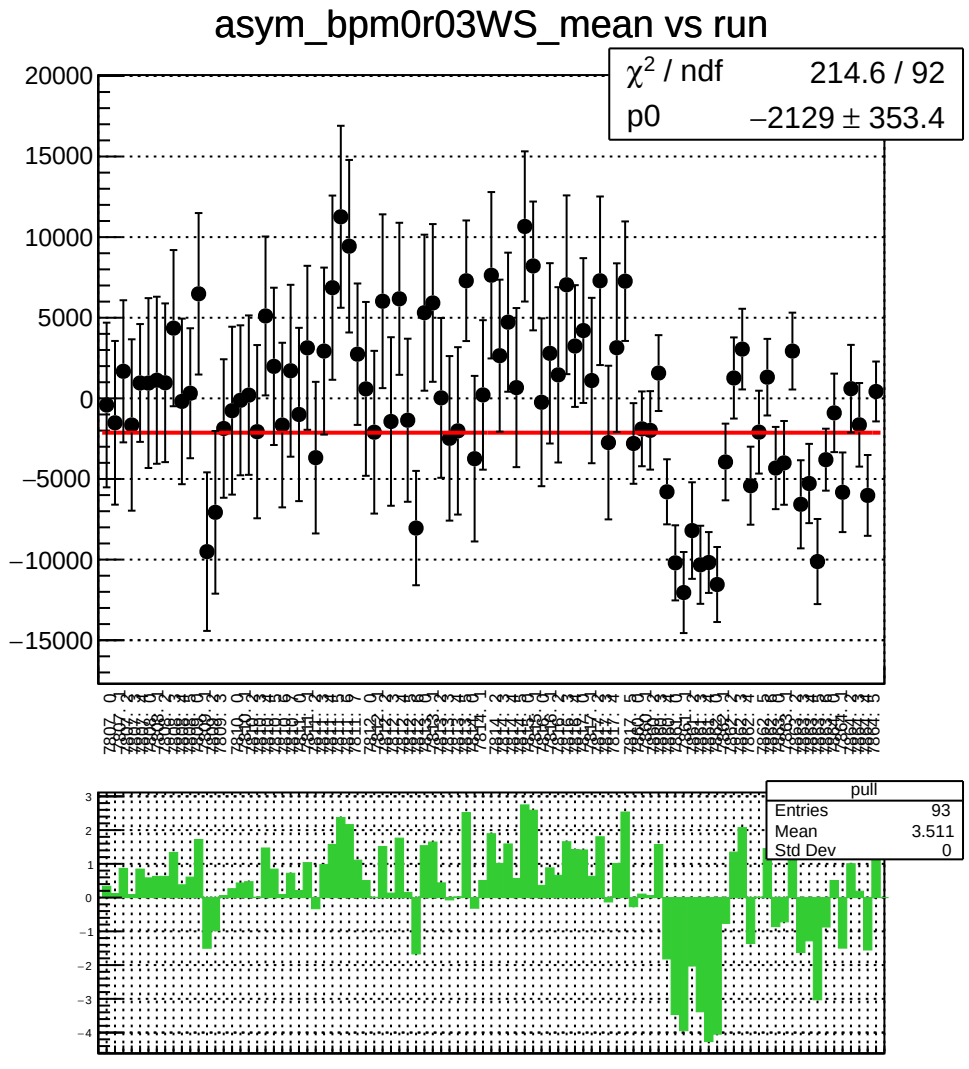

asym_bpm0l09WS_mean vs run
×10^3
χ² / ndf 100.4 / 92
p0 1456 ± 443.4
pull
Entries 93
Mean 3212
Std Dev 0

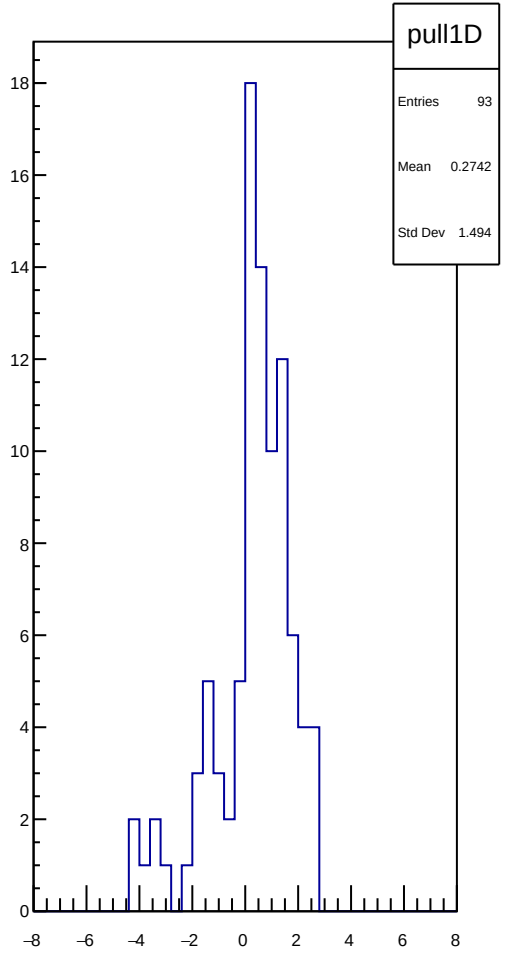

pull1D
Entries 93
Mean 0.001603
Std Dev 1.039

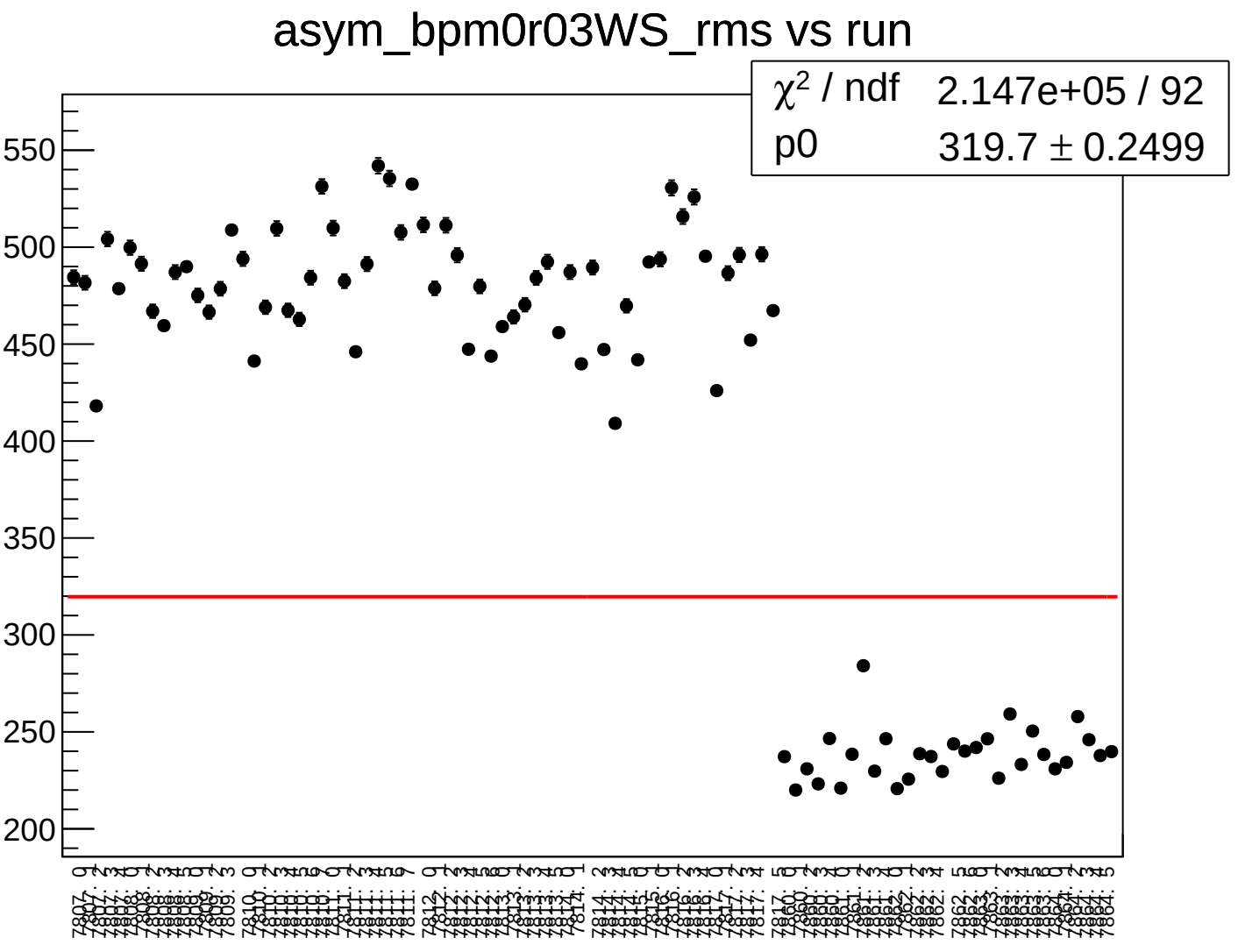

asym_bpm0l09WS_rms vs run
χ² / ndf 5.167e+05 / 92
p0 362.2 ± 0.3135
5000
4000
3000
2000
1000

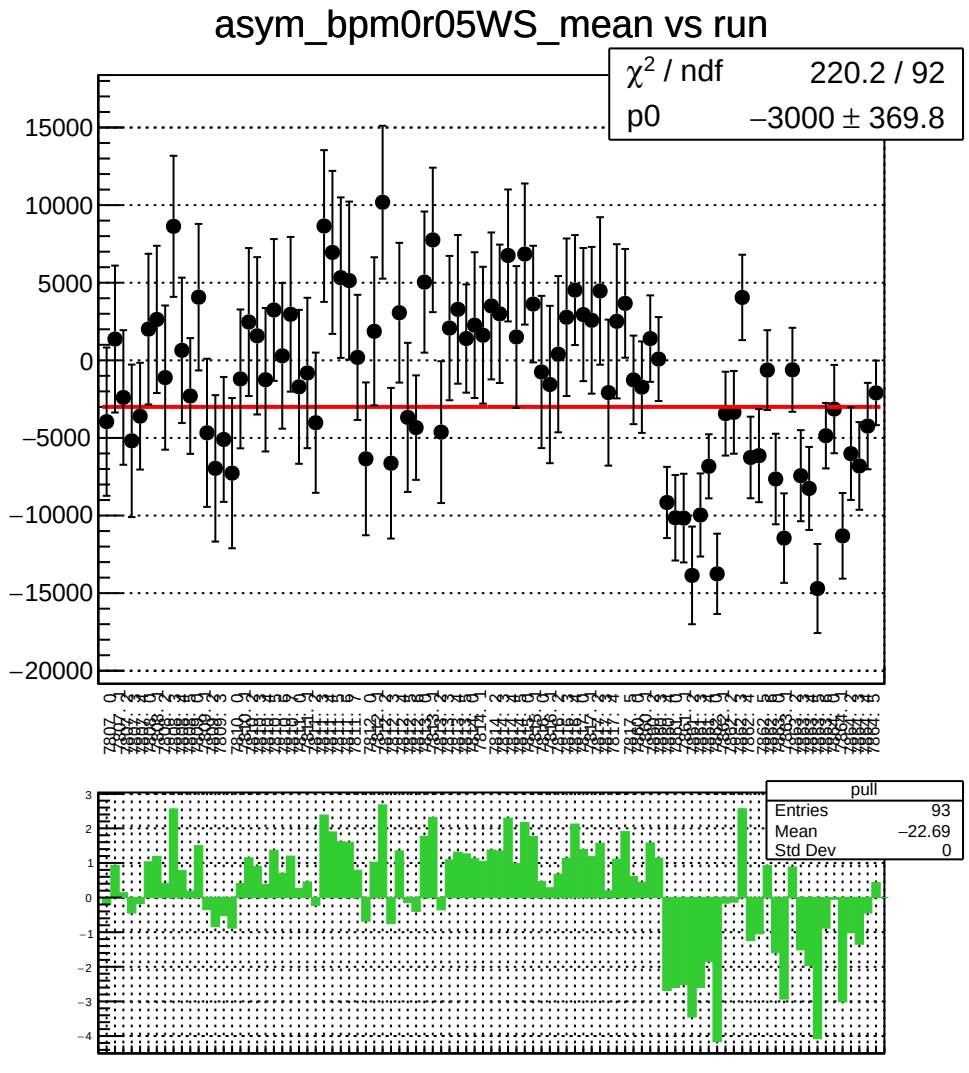

asym_bpm0l10WS_mean vs run
χ² / ndf 304 / 92
p0 −2300 ± 284.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean 0.8565
Std Dev 0
3
2
1
0
−1
−2
−3
−4
−5
pull1D
Entries 93
Mean 0.3639
Std Dev 1.771
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

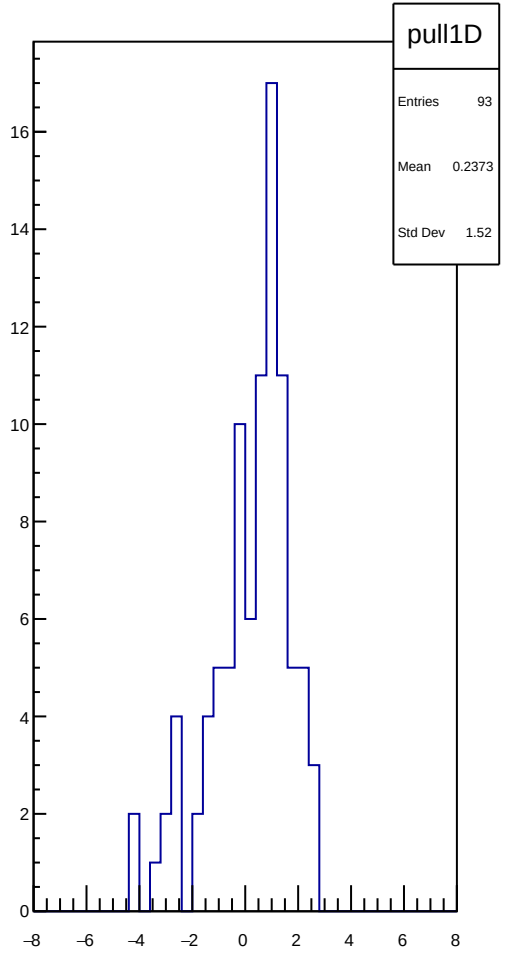

asym_bpm0l10WS_rms vs run
χ² / ndf 1.865e+05 / 92
p0 259.2 ± 0.2009
450
400
350
300
250
200

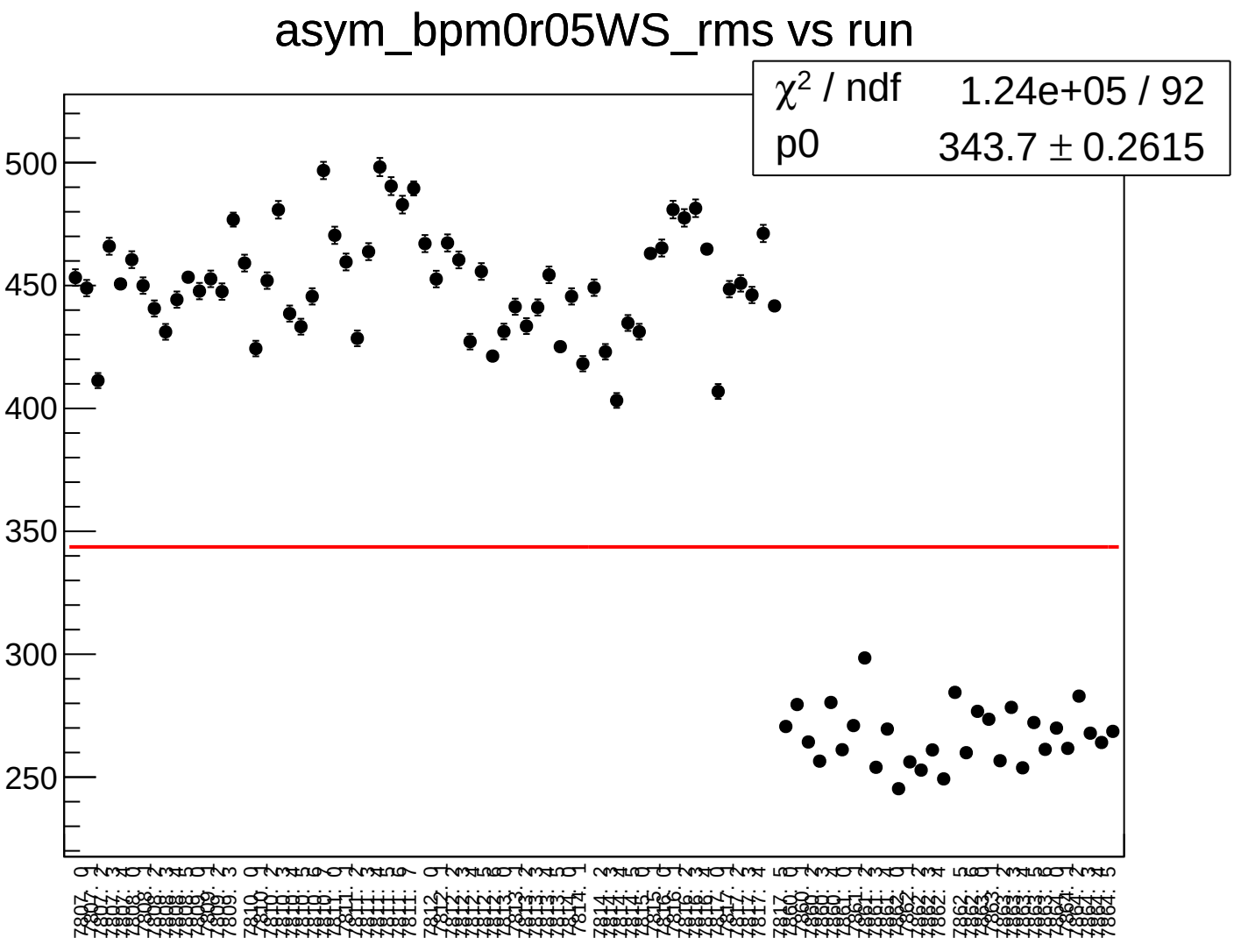

asym_bpm0r03WS_mean vs run
χ² / ndf 214.6 / 92
p0 −2129 ± 353.4
pull
Entries 93
Mean 3.511
Std Dev 0

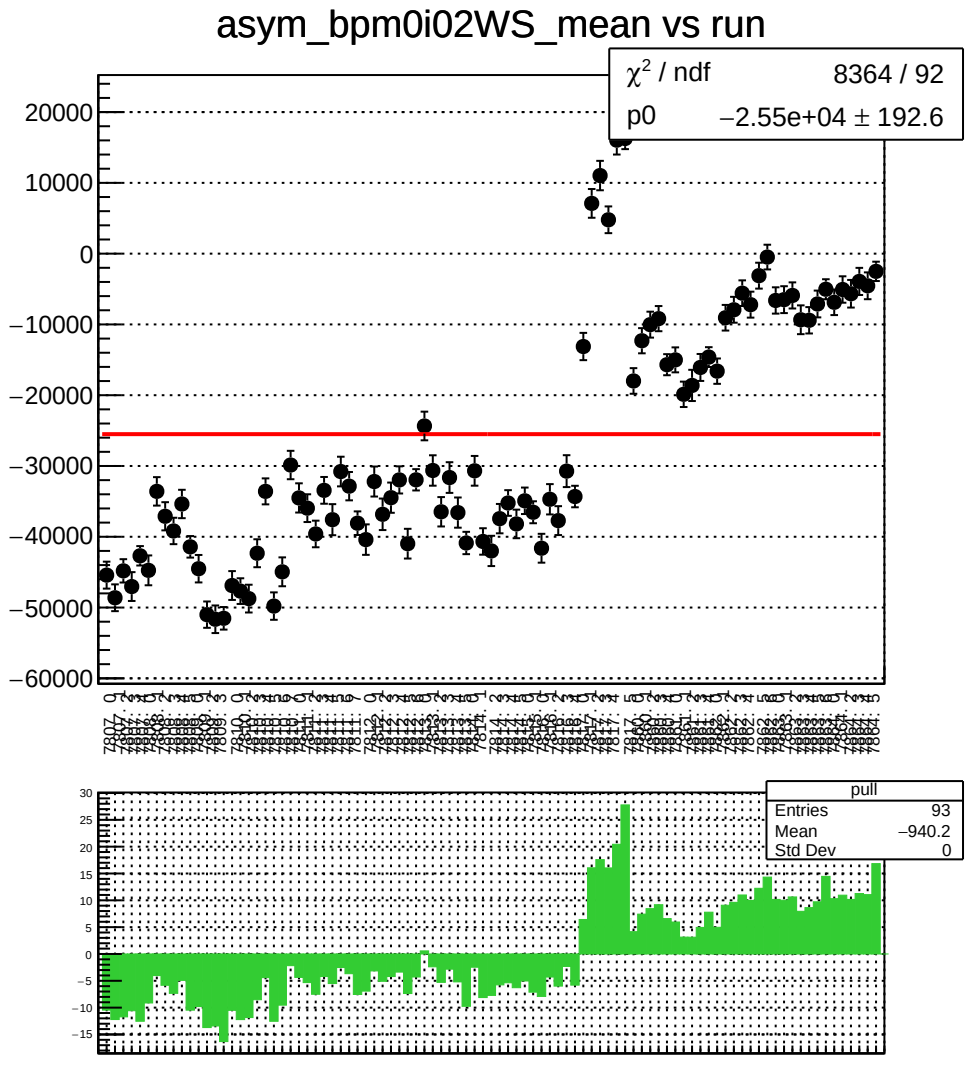

pull1D
Entries 93
Mean 0.2742
Std Dev 1.494

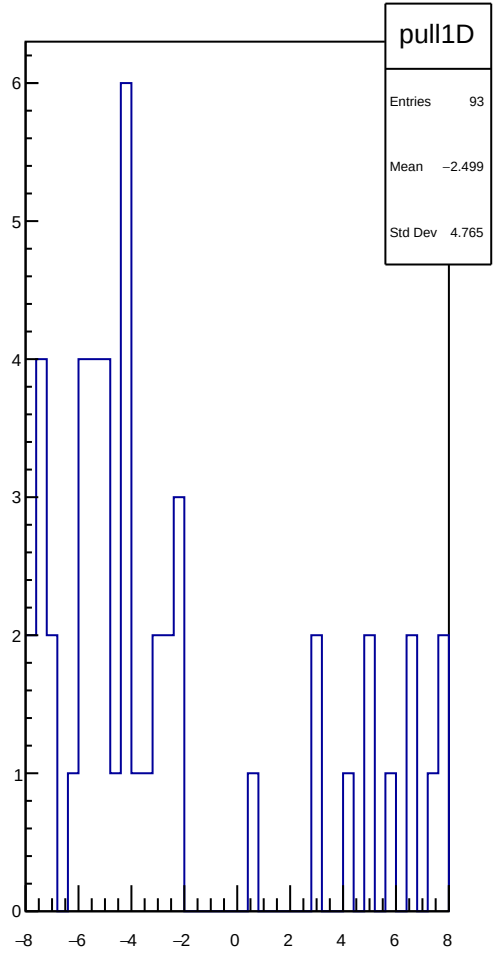

asym_bpm0r03WS_rms vs run
χ^2 / ndf 2.147e+05 / 92
p0 319.7 ± 0.2499
550
500
450
400
350
300
250
200

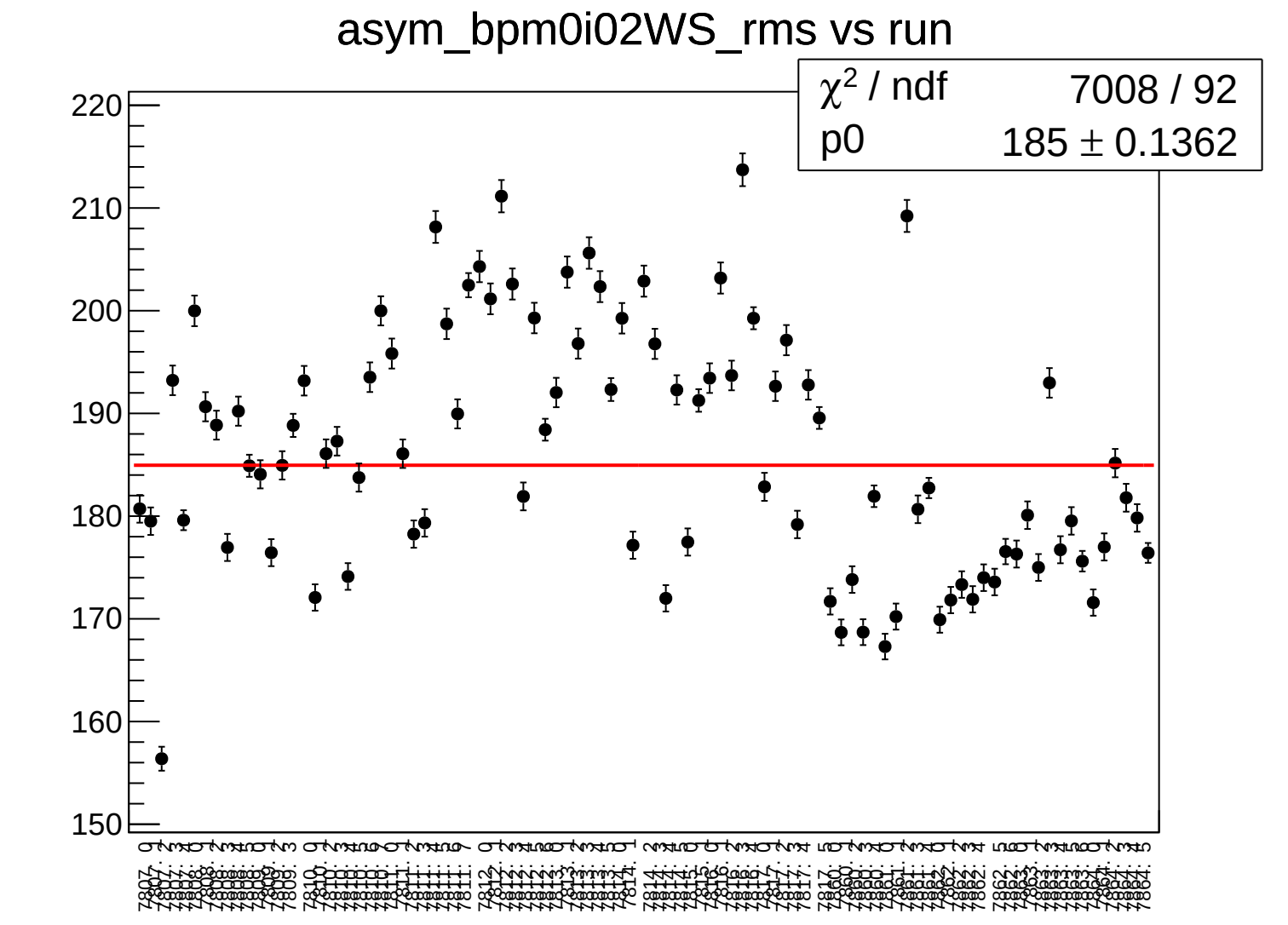

asym_bpm0r05WS_mean vs run
χ² / ndf 220.2 / 92
p0 −3000 ± 369.8
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 93
Mean −22.69
Std Dev 0
3
2
1
0
−1
−2
−3
−4

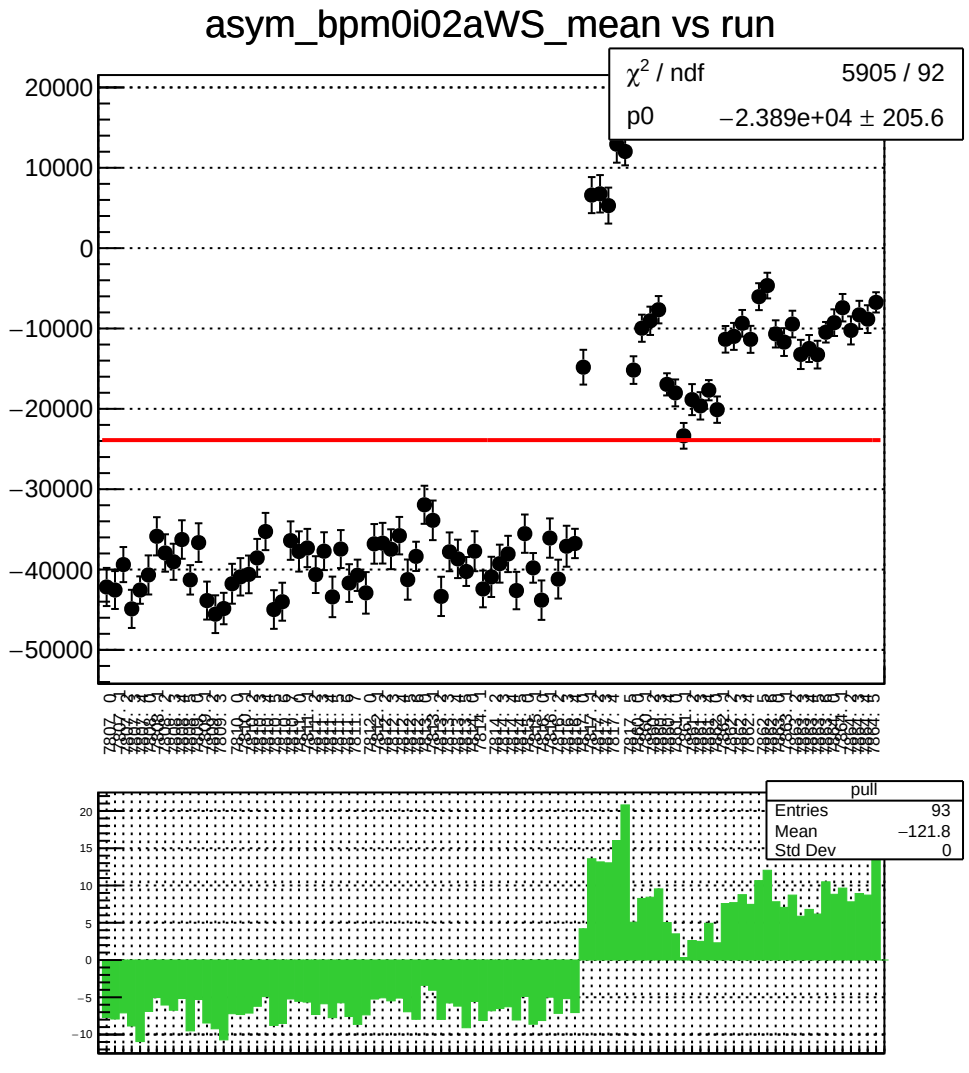

pull1D
Entries 93
Mean 0.2373
Std Dev 1.52
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

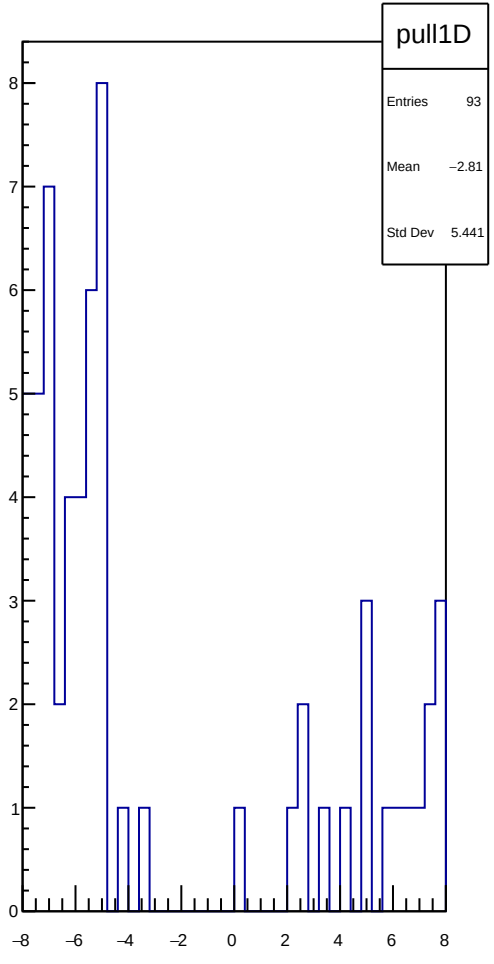

asym_bpm0r05WS_rms vs run
χ² / ndf 1.24e+05 / 92
p0 343.7 ± 0.2615
500
450
400
350
300
250

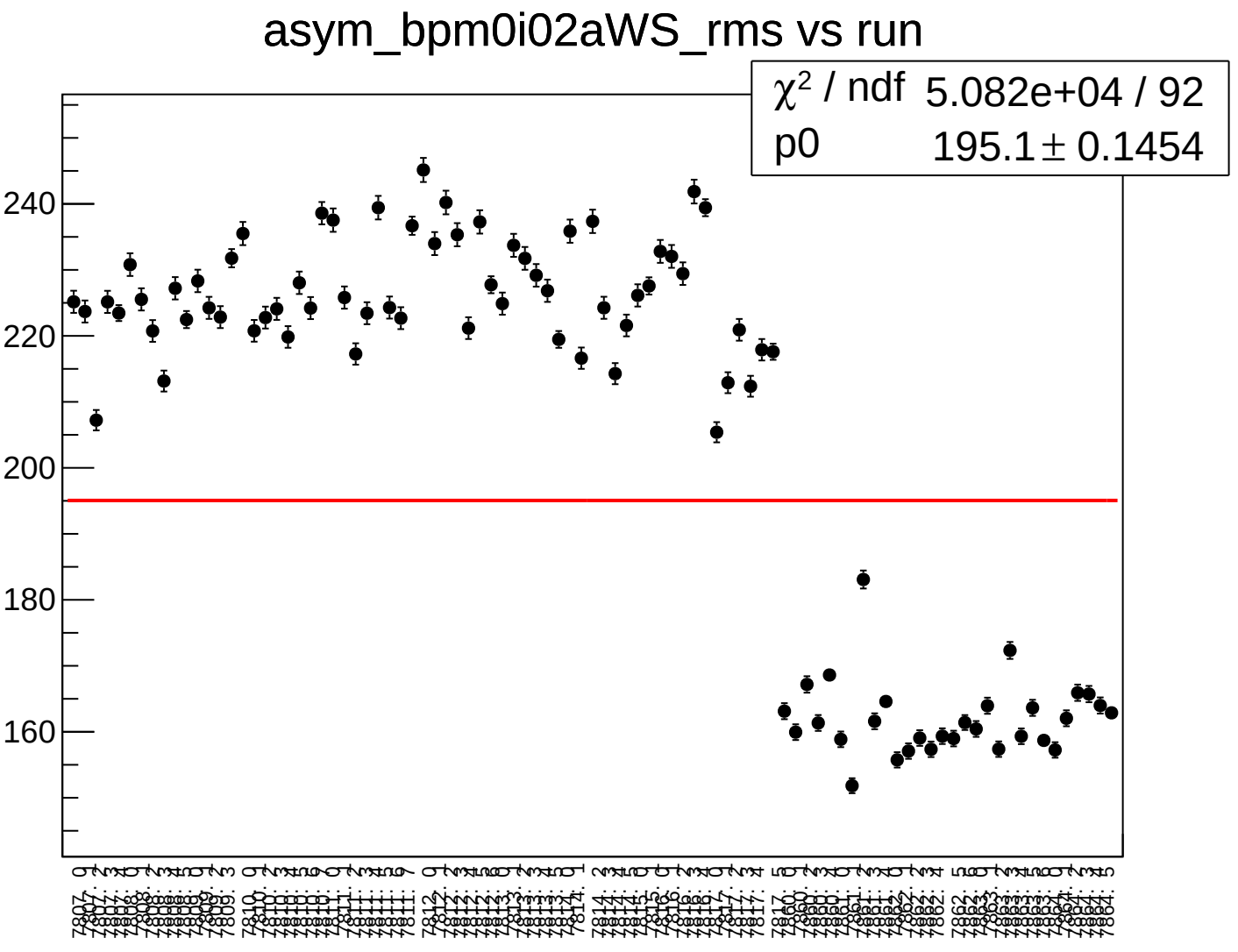

asym_bpm0i02WS_mean vs run
χ² / ndf 8364 / 92
p0 −2.55e+04 ± 192.6
pull
Entries 93
Mean −940.2
Std Dev 0

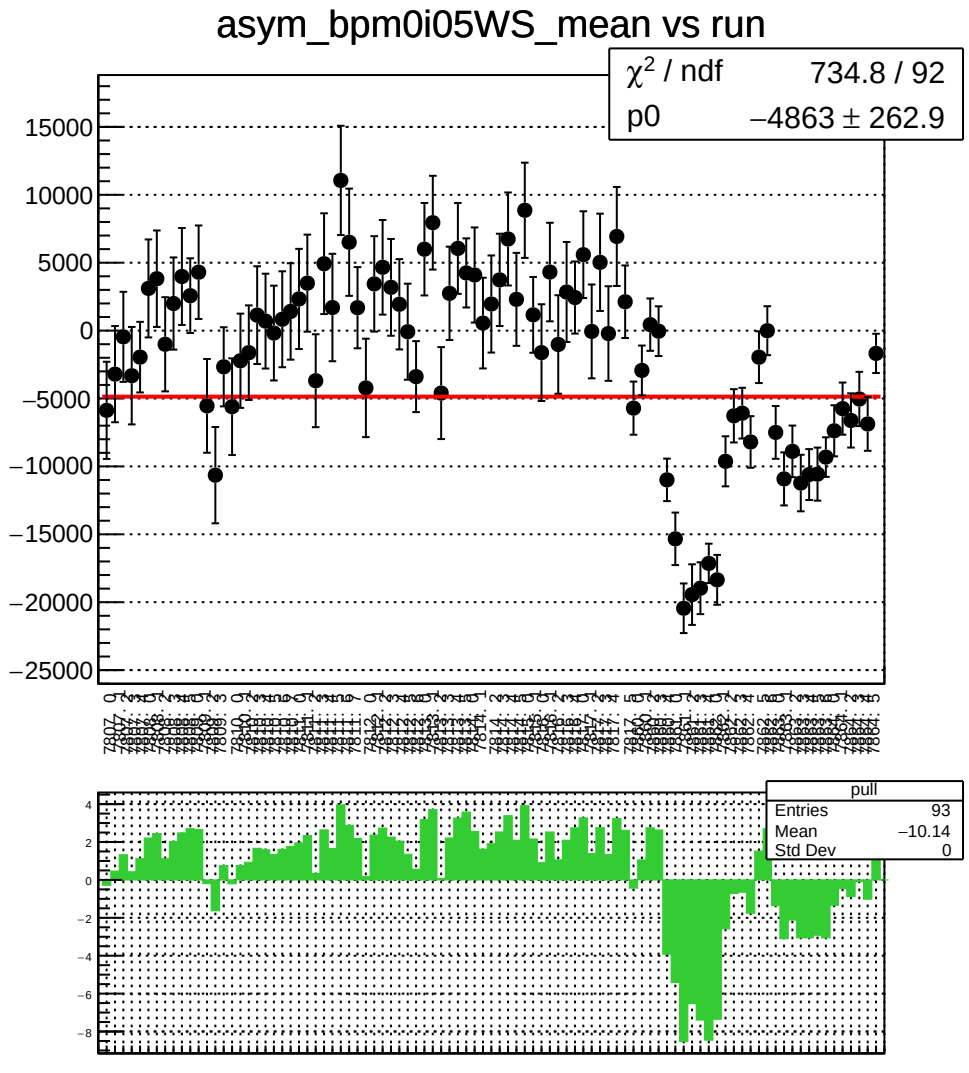

pull1D
Entries 93
Mean −2.499
Std Dev 4.765

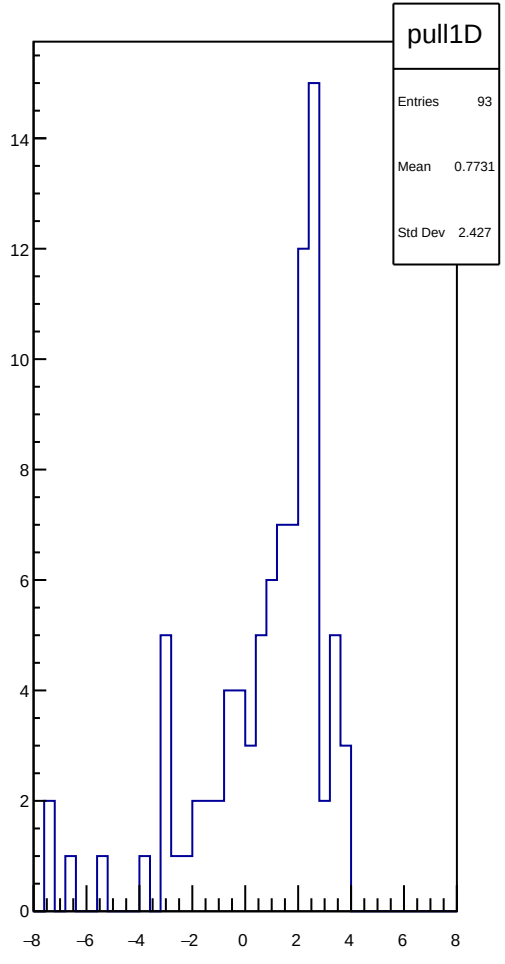

asym_bpm0i02WS_rms vs run
χ^2 / ndf 7008 / 92
p0 185 ± 0.1362
220
210
200
190
180
170
160
150

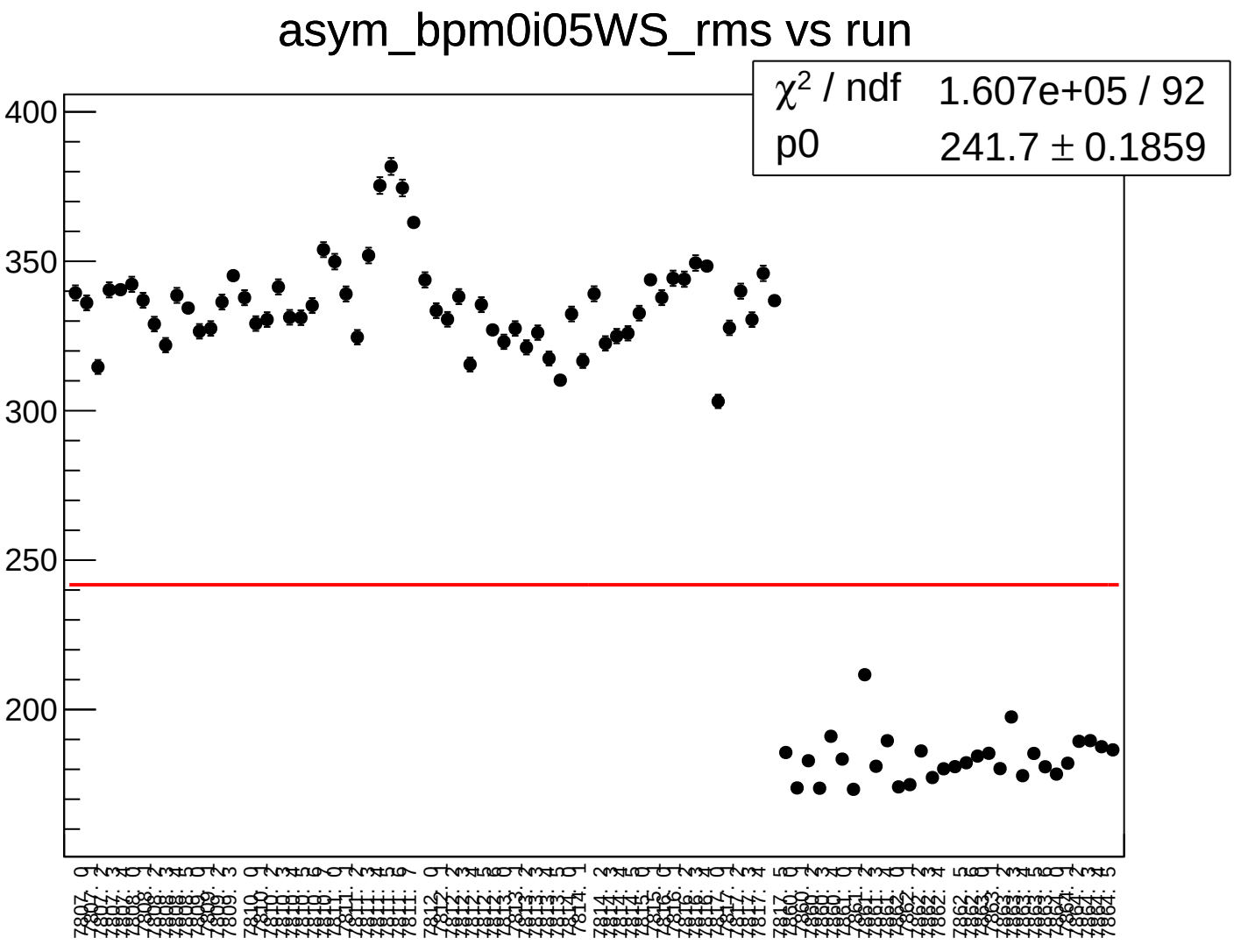

asym_bpm0i02aWS_mean vs run
χ² / ndf 5905 / 92
p0 −2.389e+04 ± 205.6
pull
Entries 93
Mean −121.8
Std Dev 0

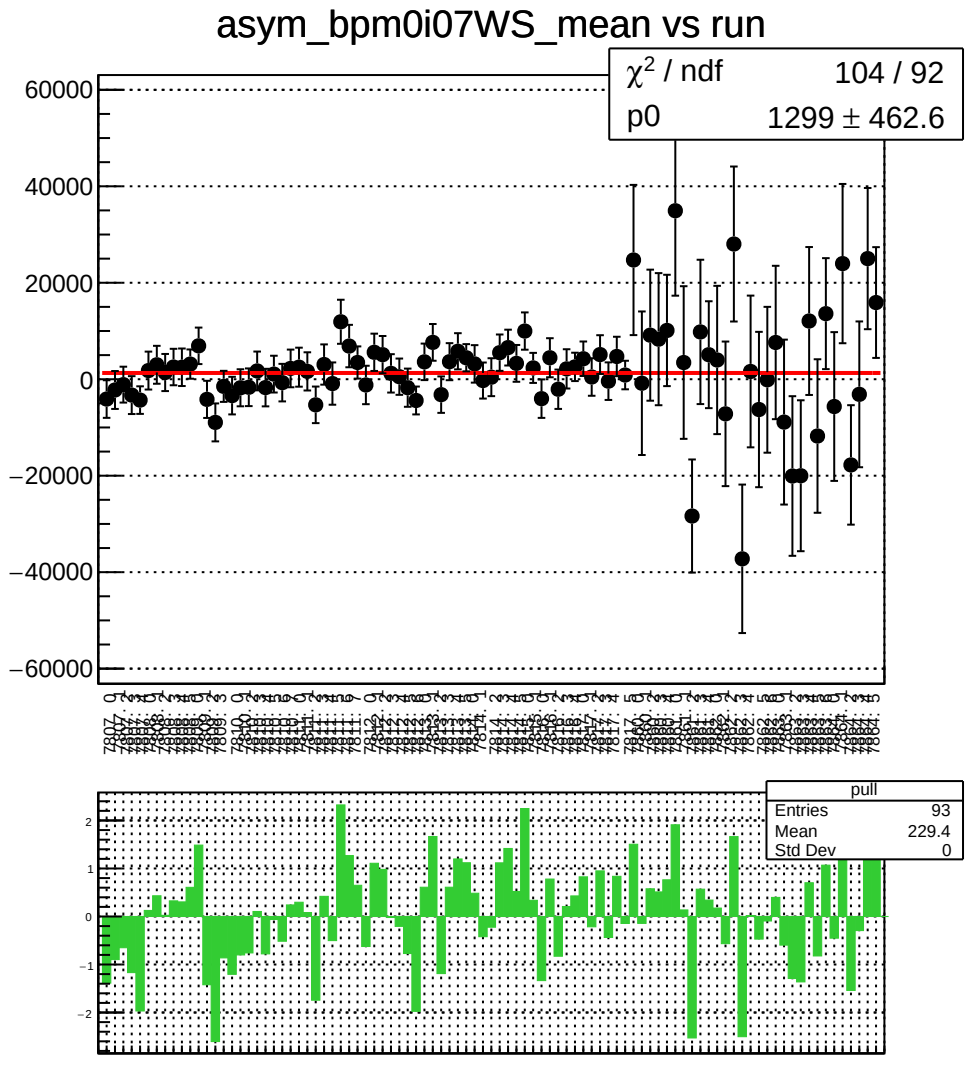

pull1D
Entries 93
Mean −2.81
Std Dev 5.441

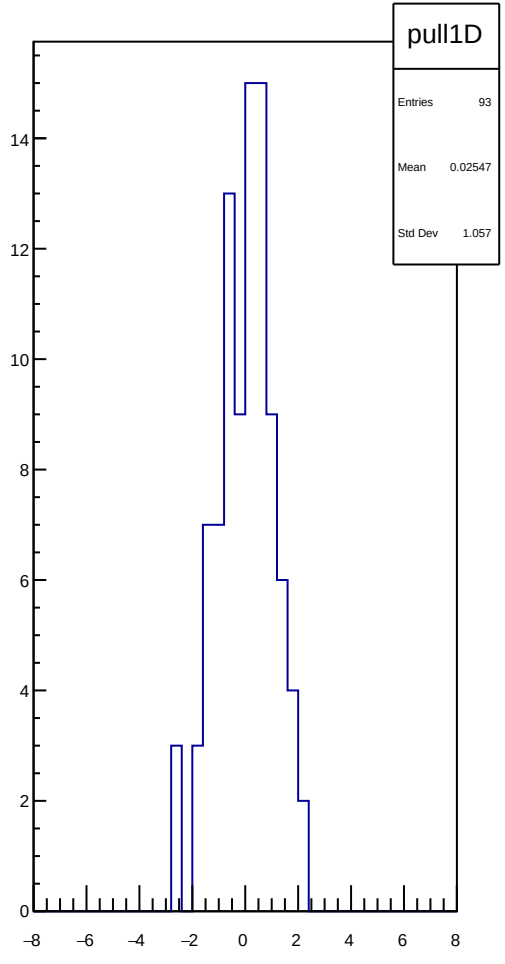

asym_bpm0i02aWS_rms vs run
χ² / ndf 5.082e+04 / 92
p0 195.1 ± 0.1454
240
220
200
180
160

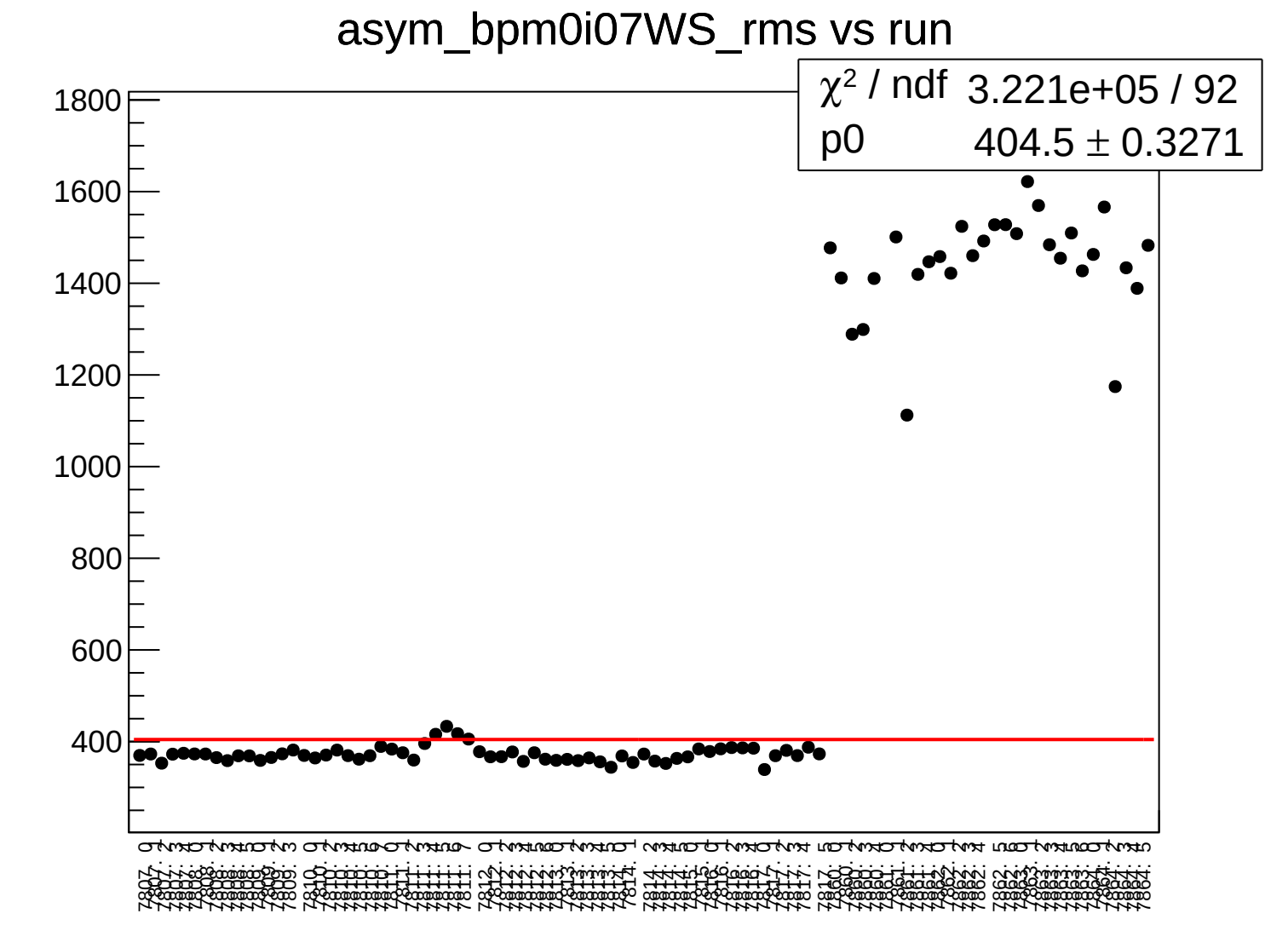

asym_bpm0i05WS_mean vs run
χ² / ndf 734.8 / 92
p0 −4863 ± 262.9
pull
Entries 93
Mean −10.14
Std Dev 0

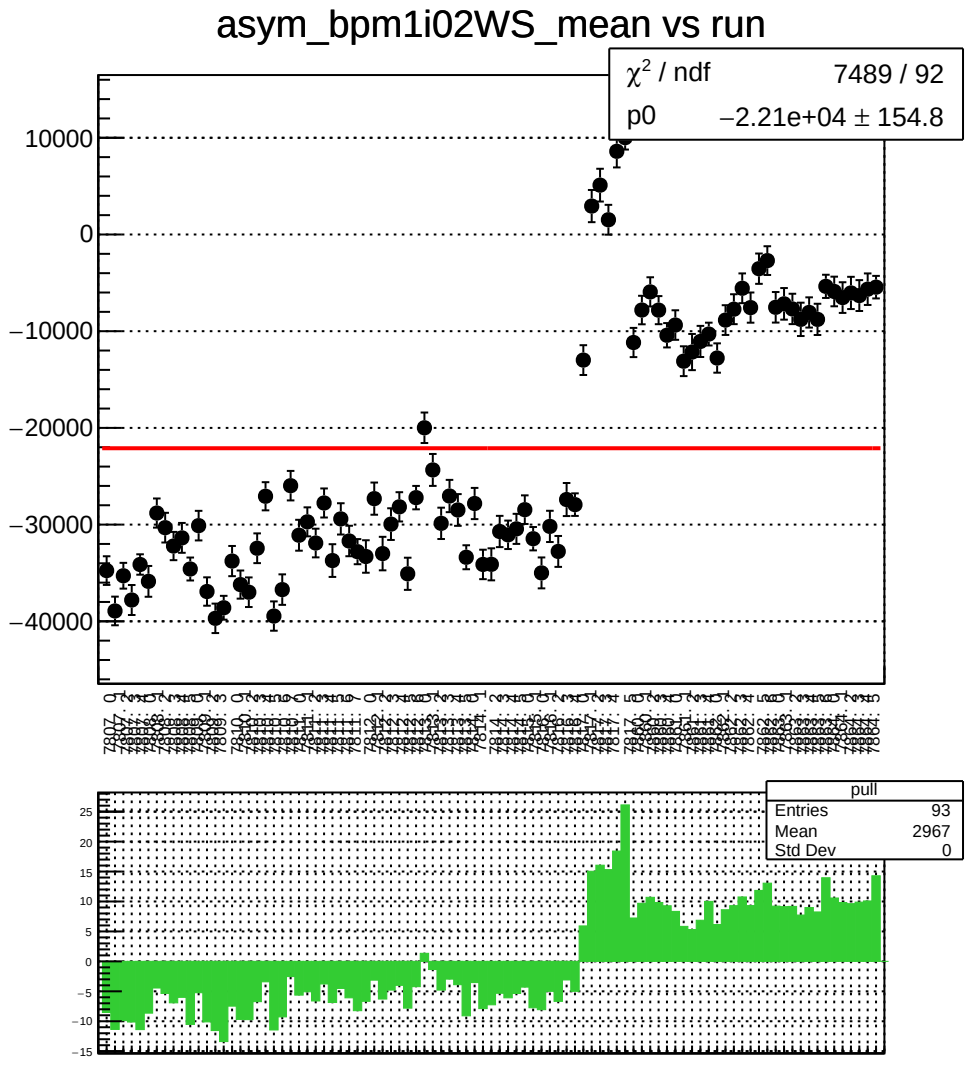

pull1D
Entries 93
Mean 0.7731
Std Dev 2.427

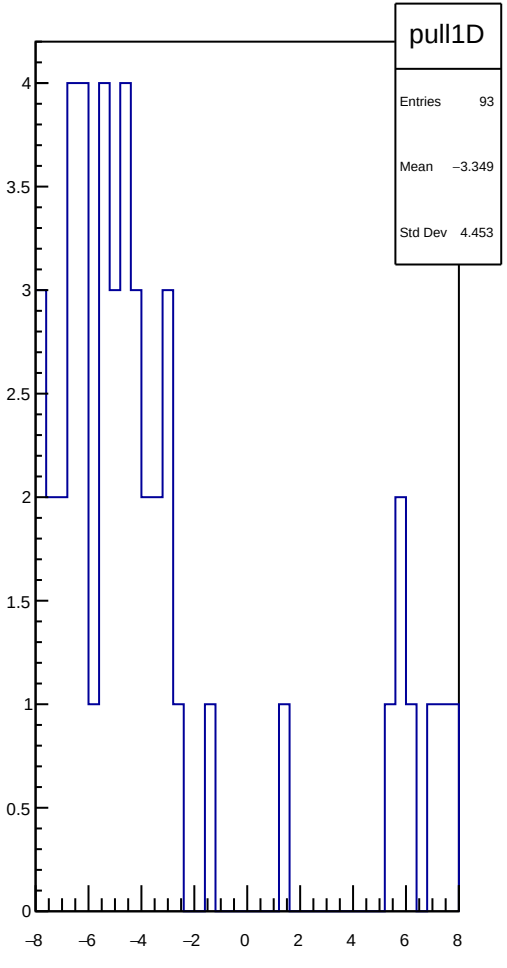

asym_bpm0i05WS_rms vs run
χ² / ndf 1.607e+05 / 92
p0 241.7 ± 0.1859
400
350
300
250
200

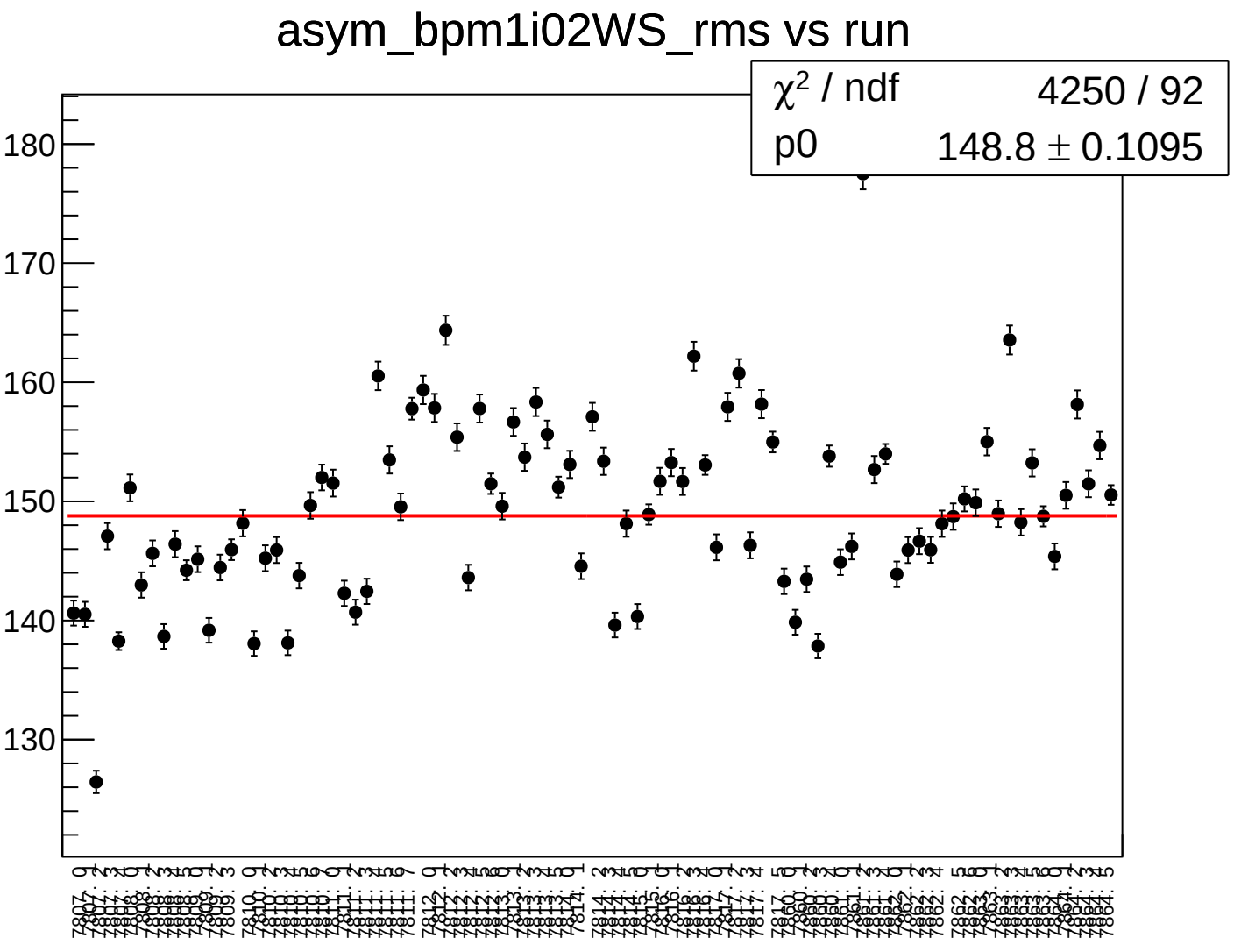

asym_bpm0i07WS_mean vs run
χ² / ndf 104 / 92
p0 1299 ± 462.6
pull
Entries 93
Mean 229.4
Std Dev 0

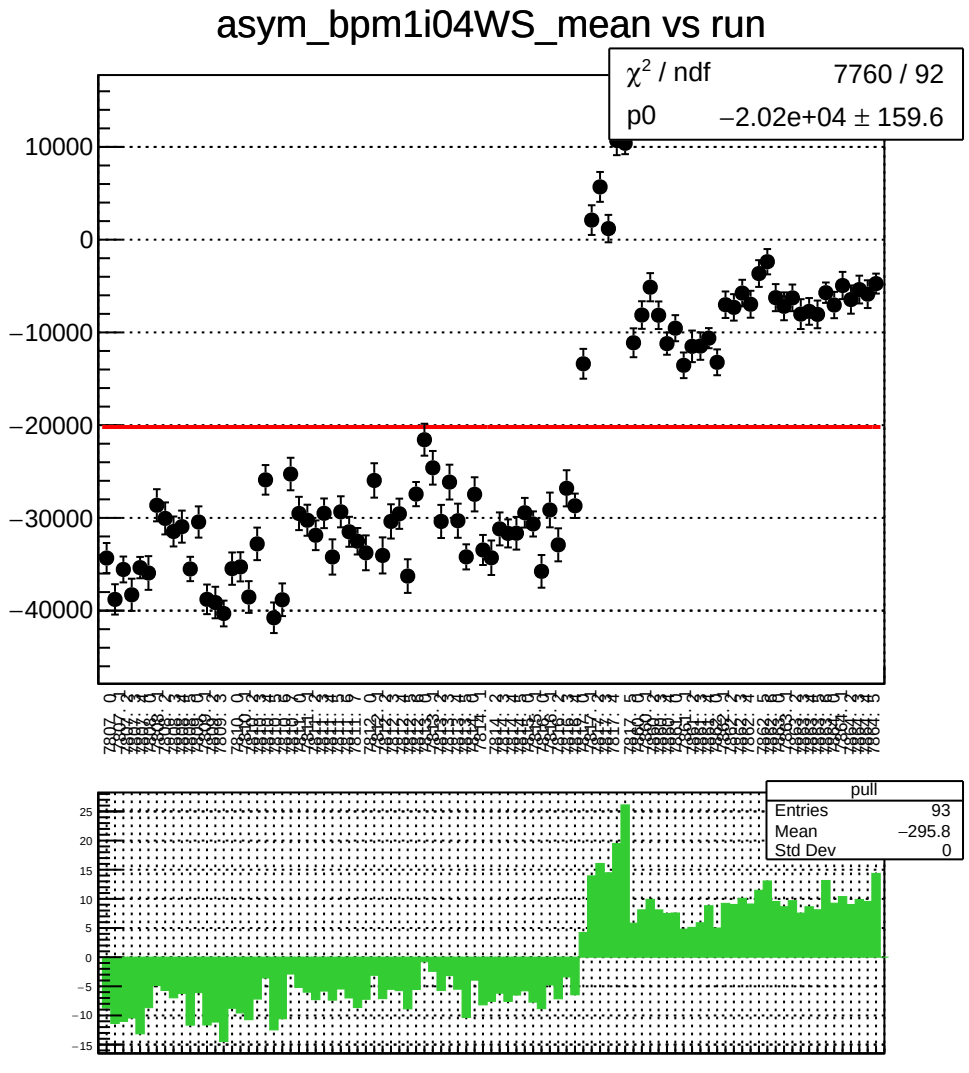

pull1D
Entries 93
Mean 0.02547
Std Dev 1.057

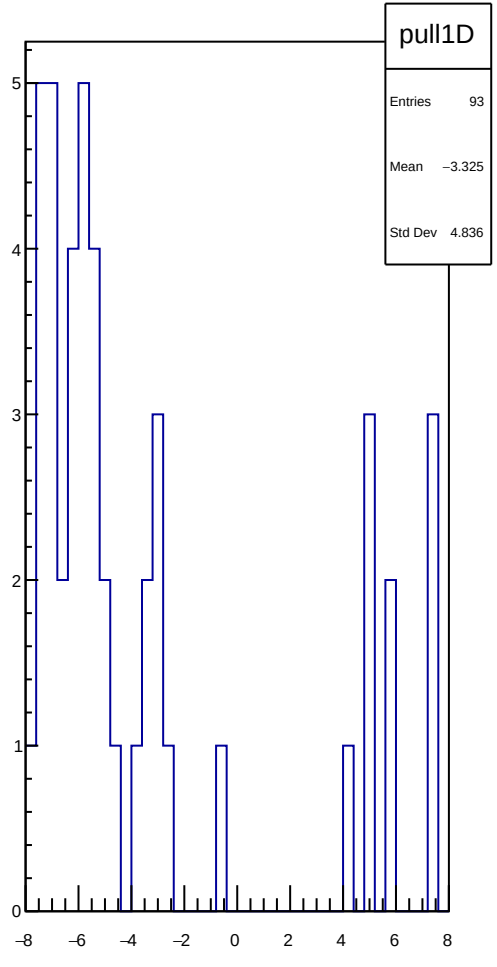

asym_bpm0i07WS_rms vs run
χ² / ndf 3.221e+05 / 92
p0 404.5 ± 0.3271
1800
1600
1400
1200
1000
800
600
400

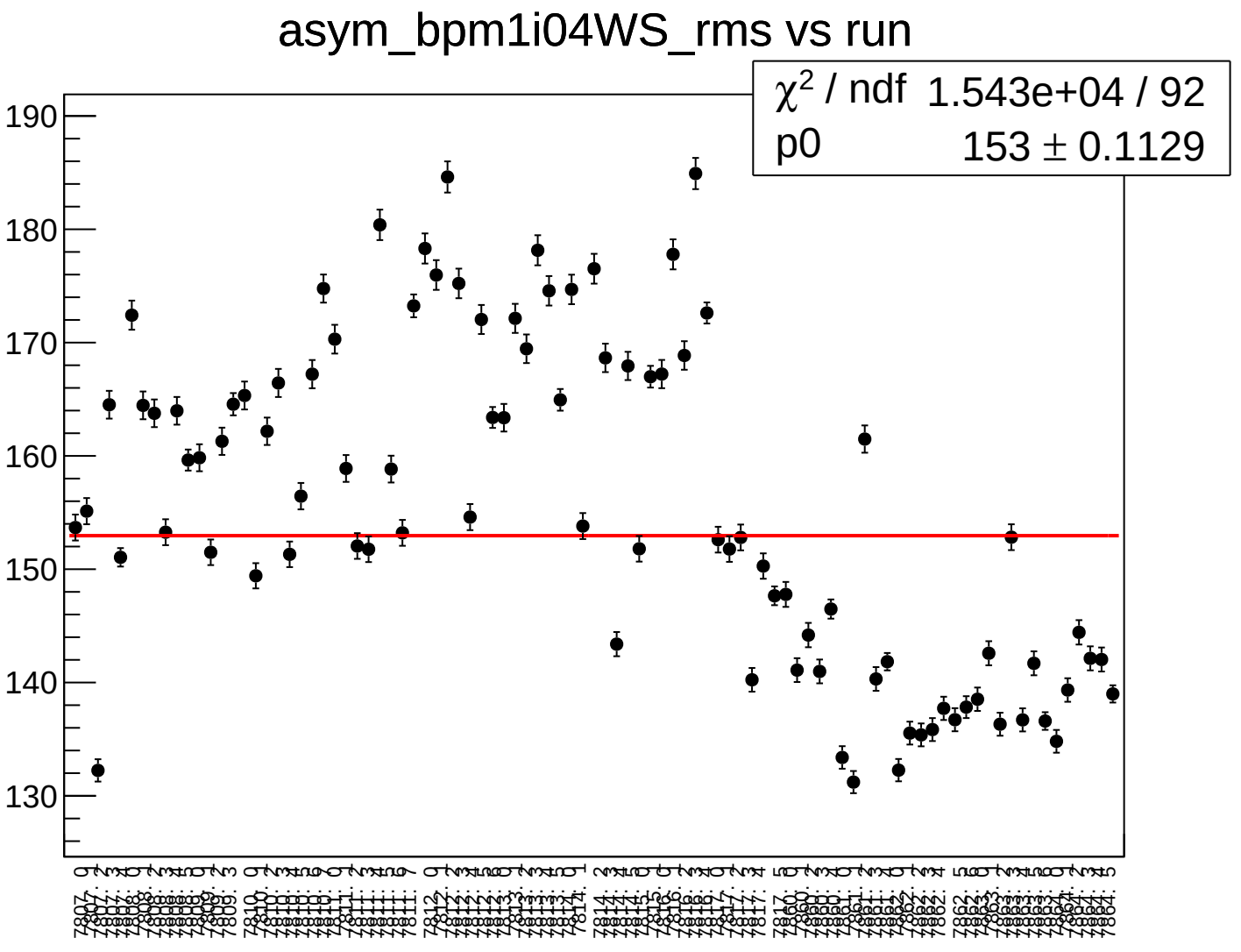

asym_bpm1i02WS_mean vs run
χ² / ndf 7489 / 92
p0 −2.21e+04 ± 154.8
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean 2967
Std Dev 0
25
20
15
10
5
0
−5
−10
−15

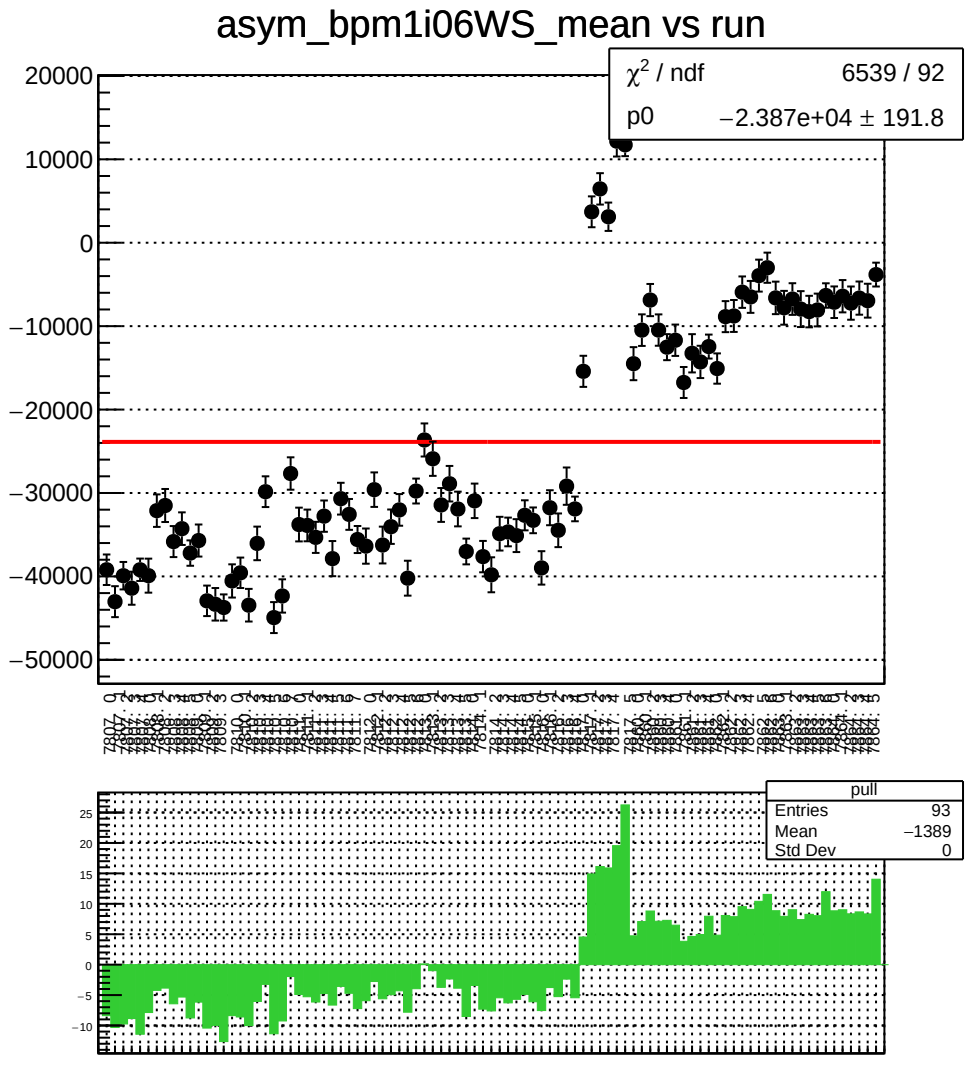

pull1D
Entries 93
Mean −3.349
Std Dev 4.453
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

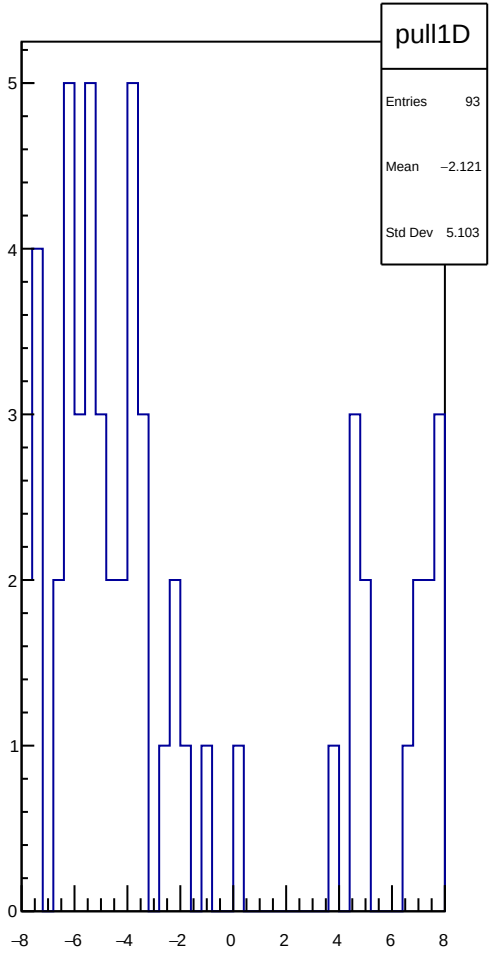

asym_bpm1i02WS_rms vs run
χ² / ndf 4250 / 92
p0 148.8 ± 0.1095
180
170
160
150
140
130

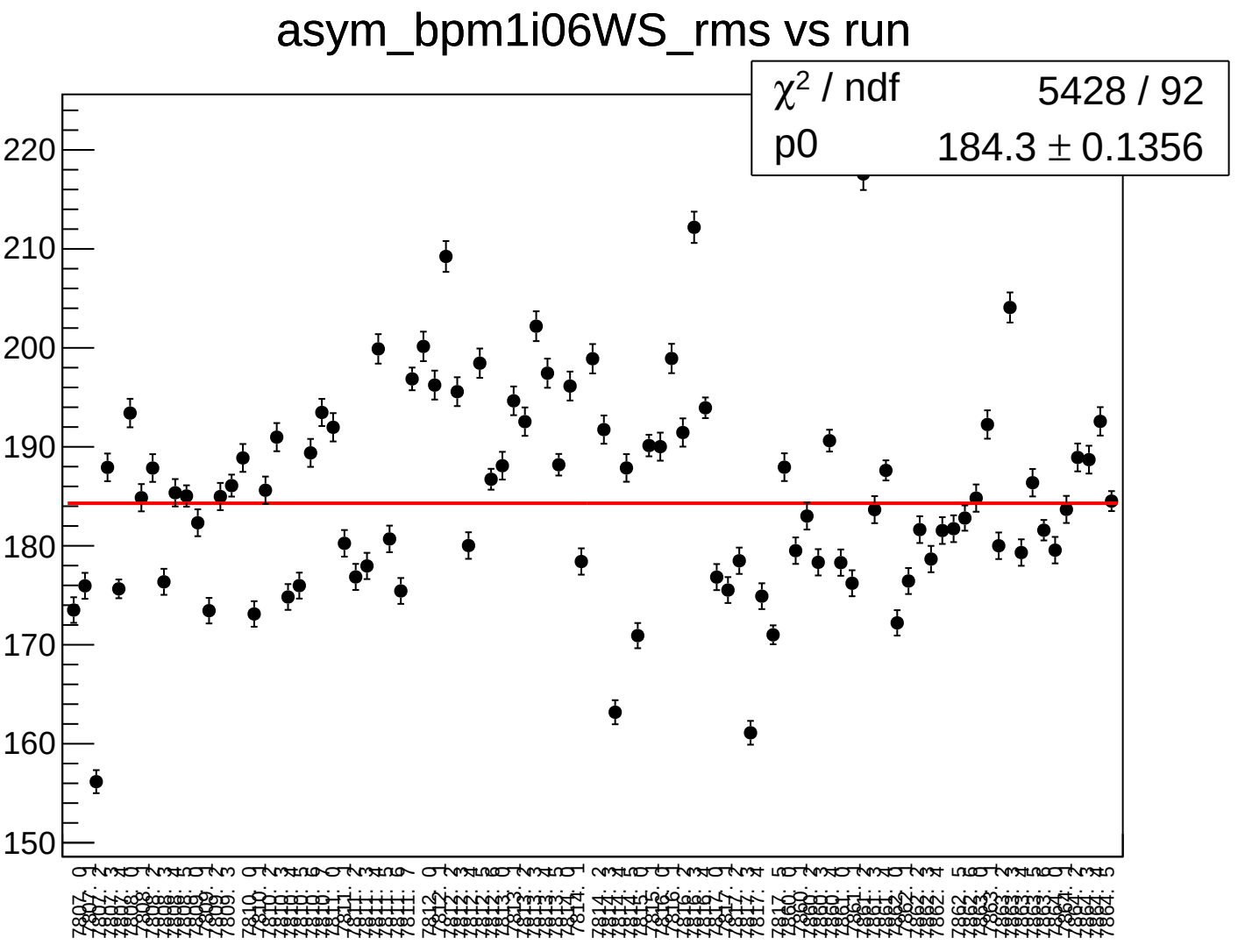

asym_bpm1i04WS_mean vs run
χ² / ndf 7760 / 92
p0 −2.02e+04 ± 159.6
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean −295.8
Std Dev 0
25
20
15
10
5
0
−5
−10
−15

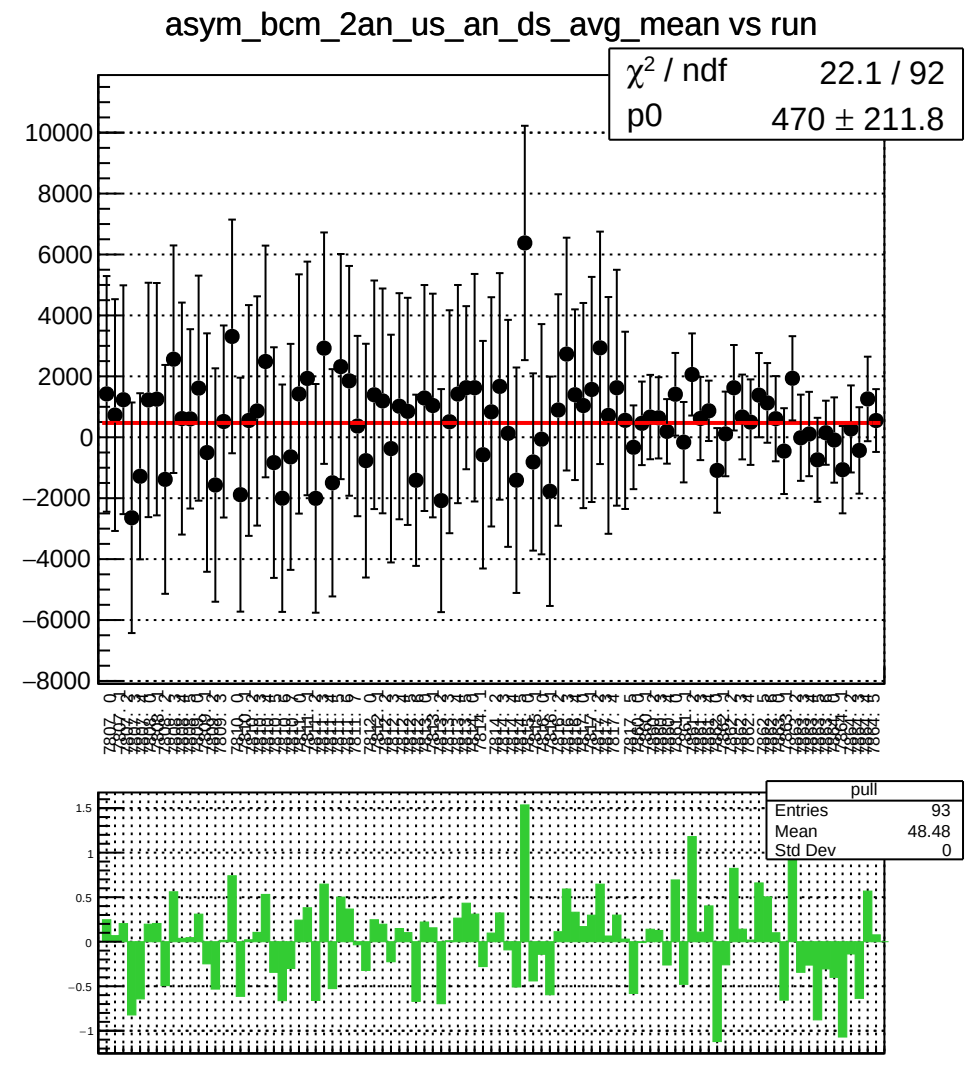

pull1D
Entries 93
Mean −3.325
Std Dev 4.836
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

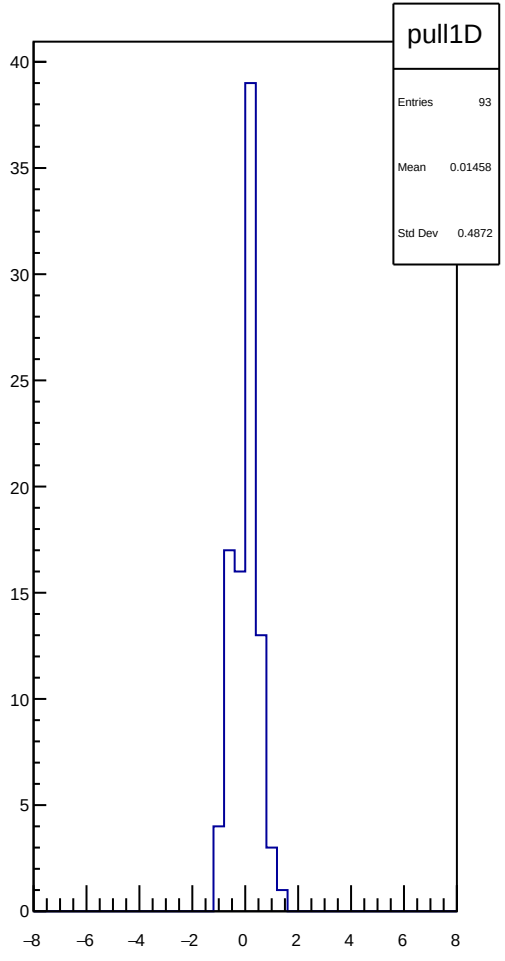

asym_bpm1i04WS_rms vs run
χ² / ndf 1.543e+04 / 92
p0 153 ± 0.1129
190
180
170
160
150
140
130

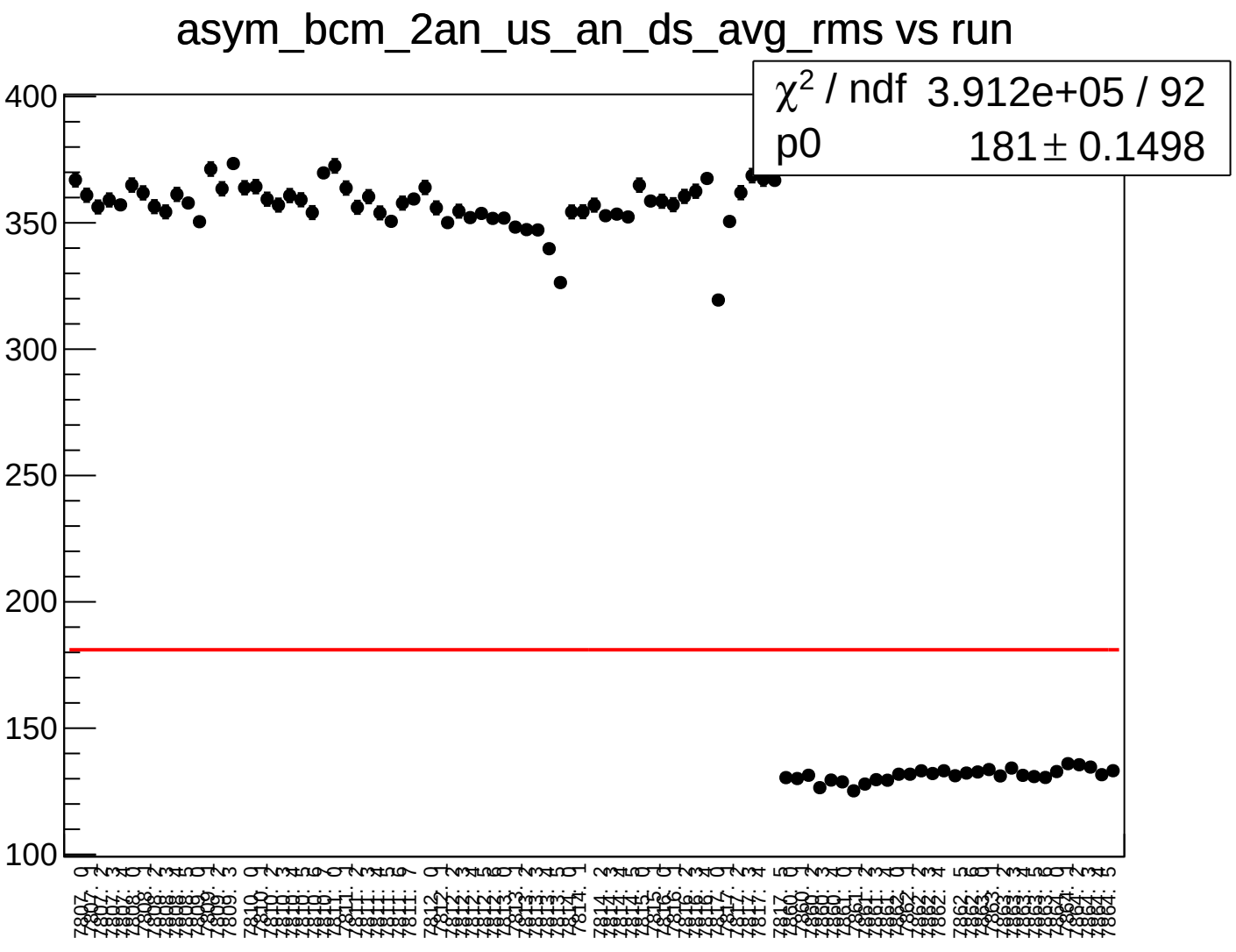

asym_bpm1i06WS_mean vs run
χ² / ndf 6539 / 92
p0 −2.387e+04 ± 191.8
20000
10000
0
−10000
−20000
−30000
−40000
−50000
pull
Entries 93
Mean −1389
Std Dev 0
25
20
15
10
5
0
−5
−10

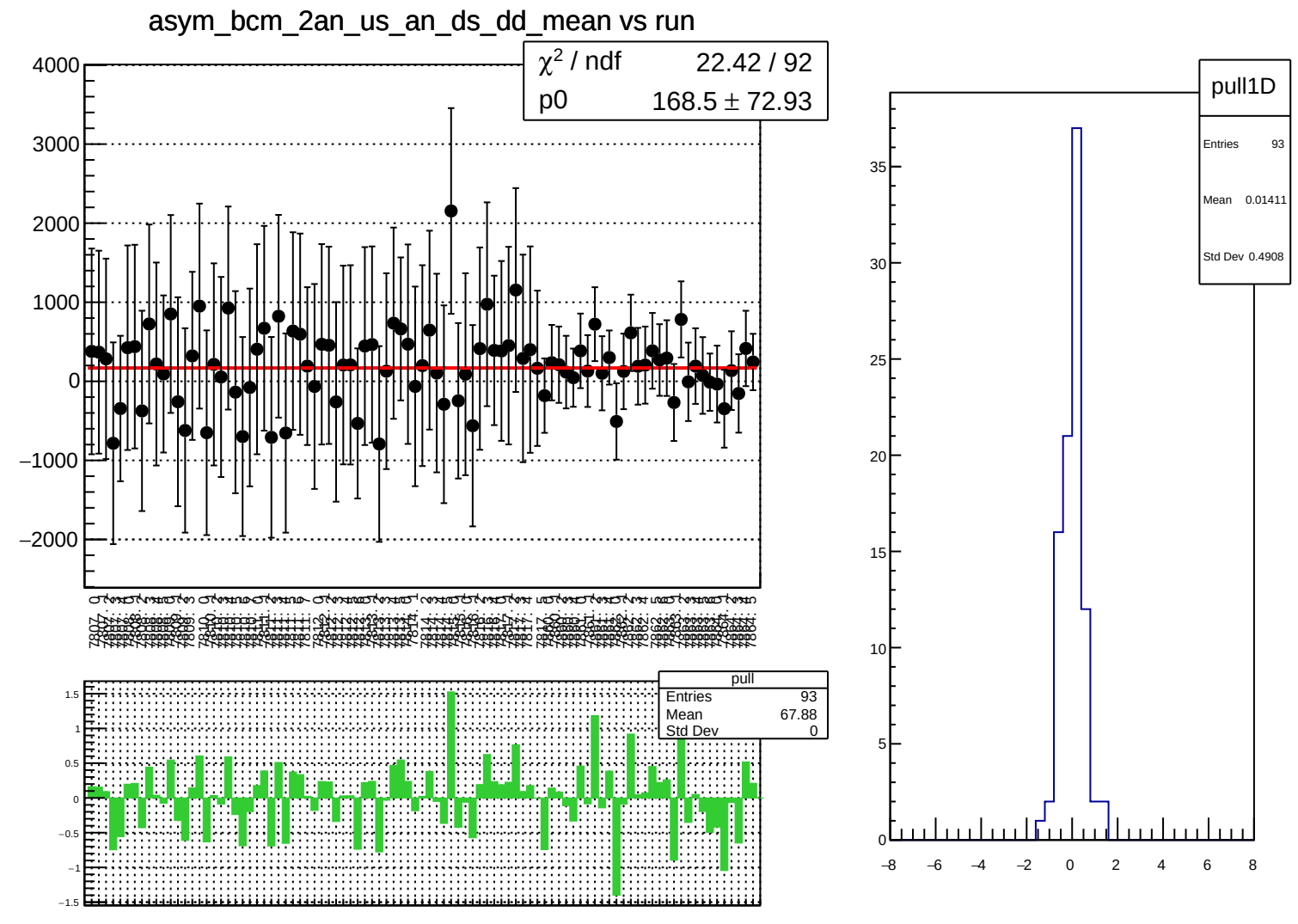

pull1D
Entries 93
Mean −2.121
Std Dev 5.103
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

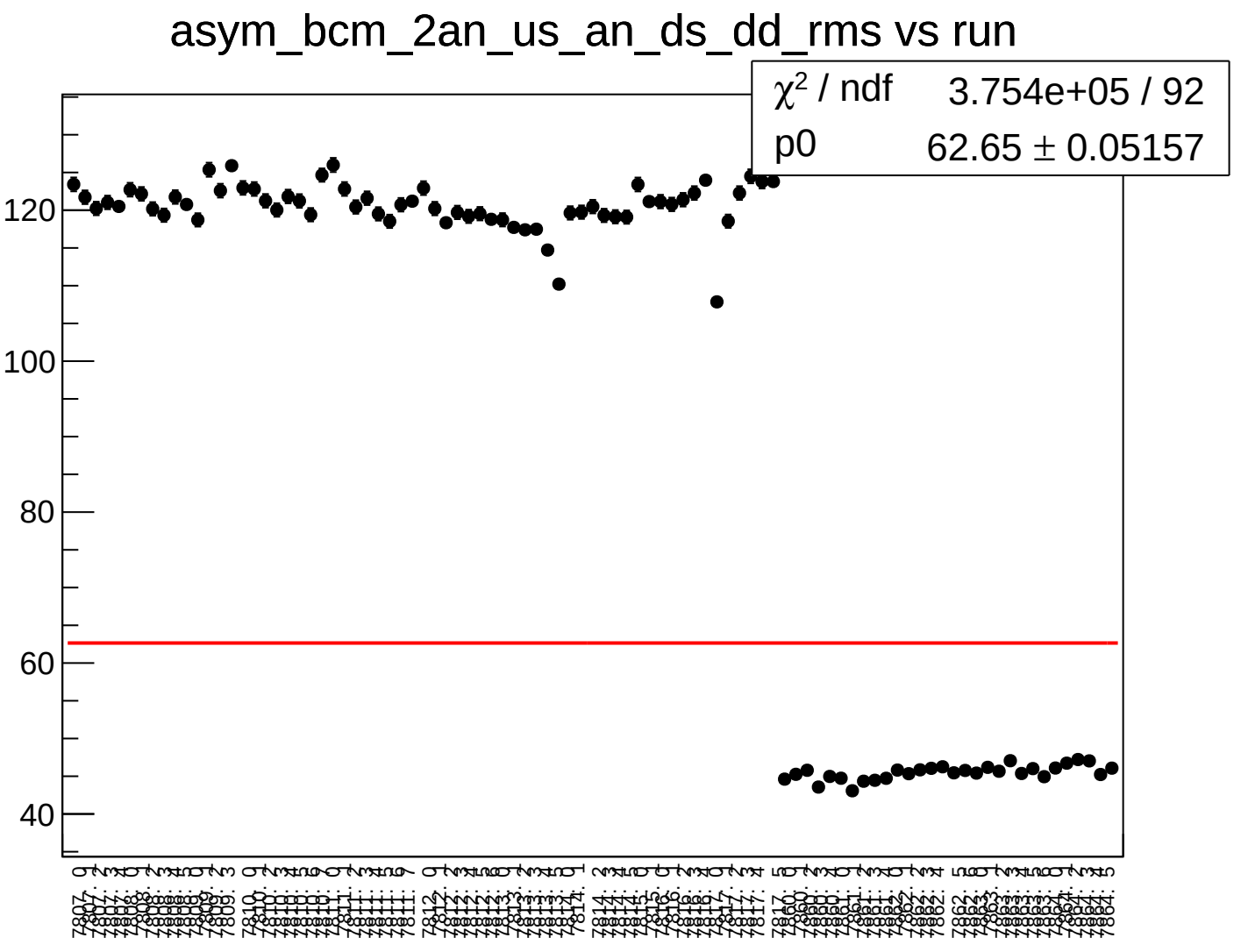

asym_bpm1i06WS_rms vs run
χ² / ndf 5428 / 92
p0 184.3 ± 0.1356
220
210
200
190
180
170
160
150

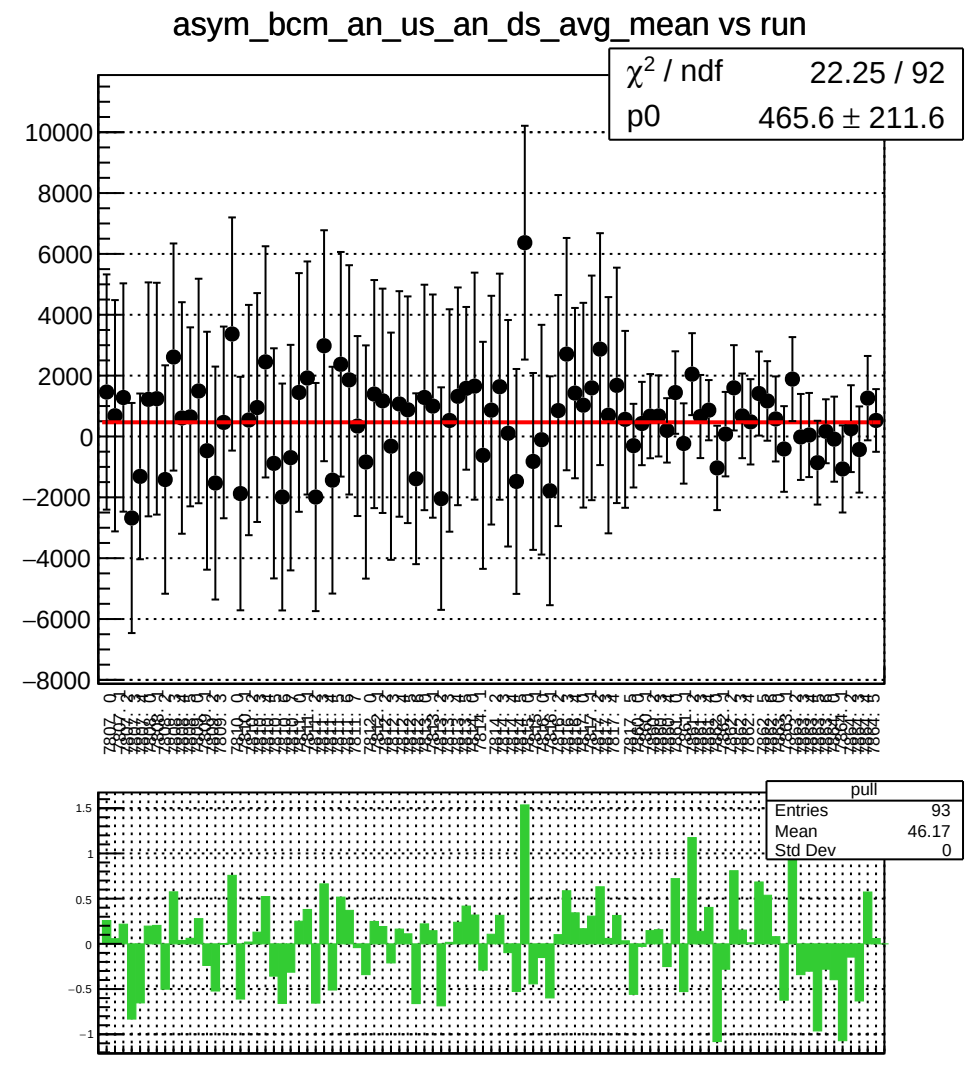

asym_bcm_2an_us_an_ds_avg_mean vs run
χ² / ndf 22.1 / 92
p0 470 ± 211.8
pull
Entries 93
Mean 48.48
Std Dev 0

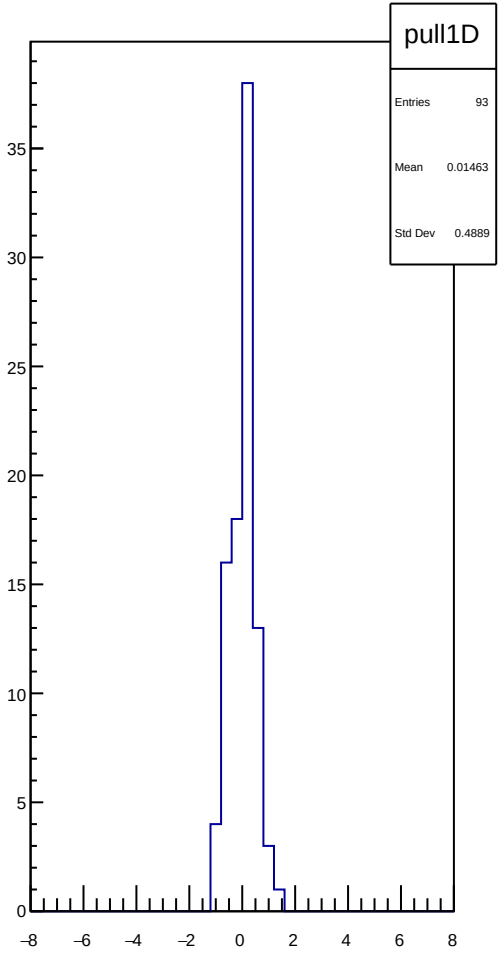

pull1D
Entries 93
Mean 0.01458
Std Dev 0.4872

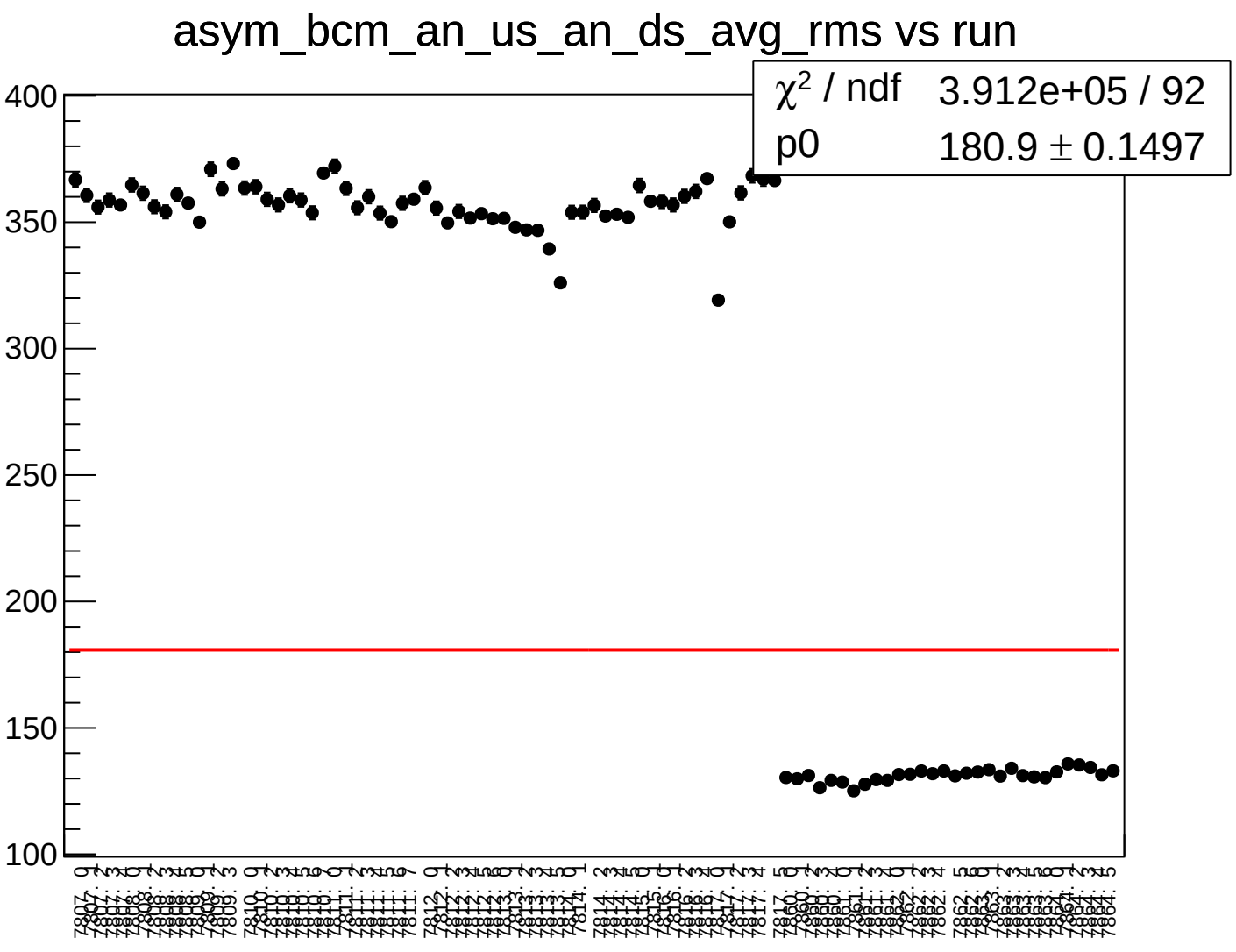

asym_bcm_2an_us_an_ds_avg_rms vs run
χ² / ndf 3.912e+05 / 92
p0 181 ± 0.1498
400
350
300
250
200
150
100

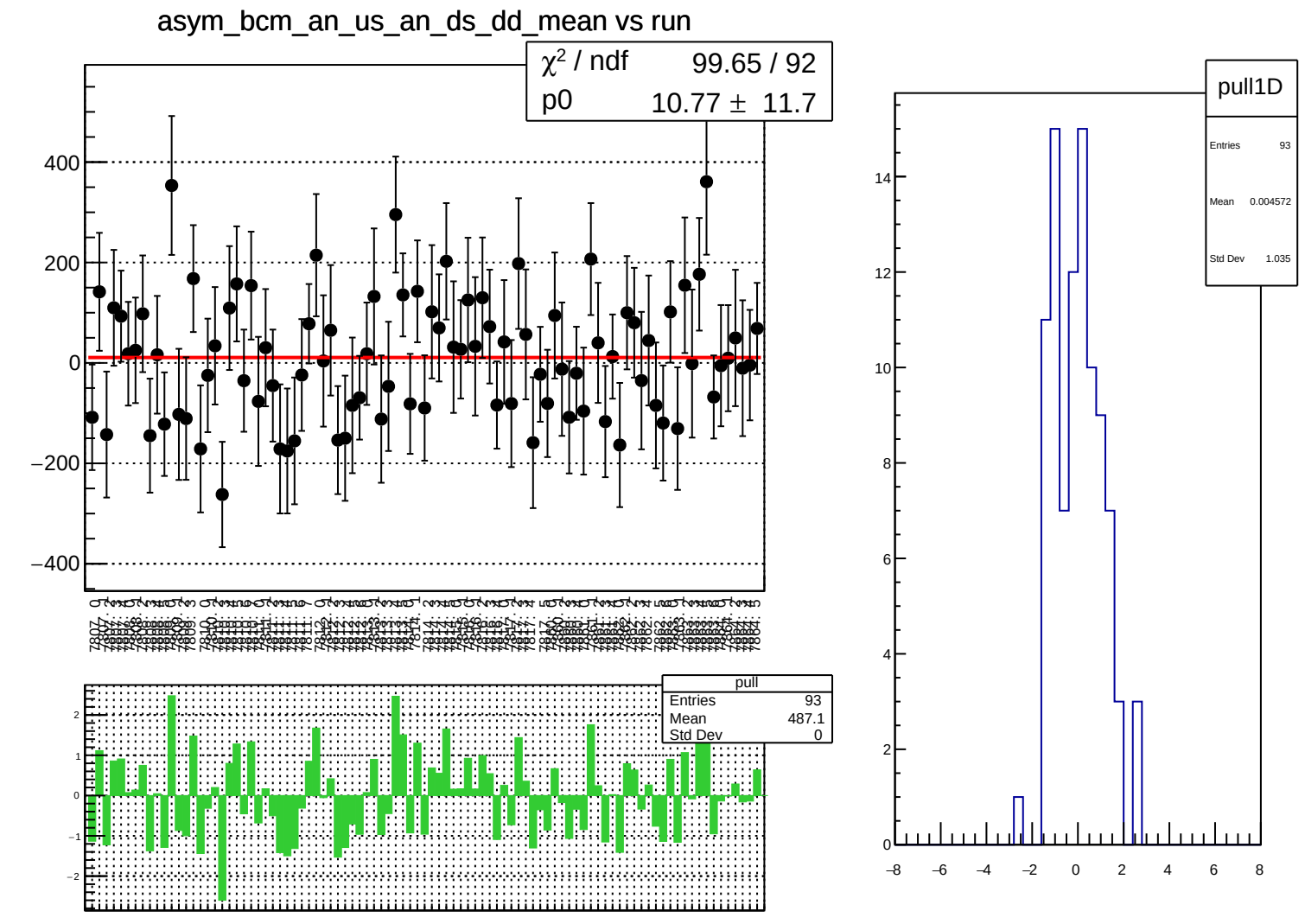

asym_bcm_2an_us_an_ds_dd_mean vs run
χ² / ndf 22.42 / 92
p0 168.5 ± 72.93
pull
Entries 93
Mean 67.88
Std Dev 0
pull1D
Entries 93
Mean 0.01411
Std Dev 0.4908

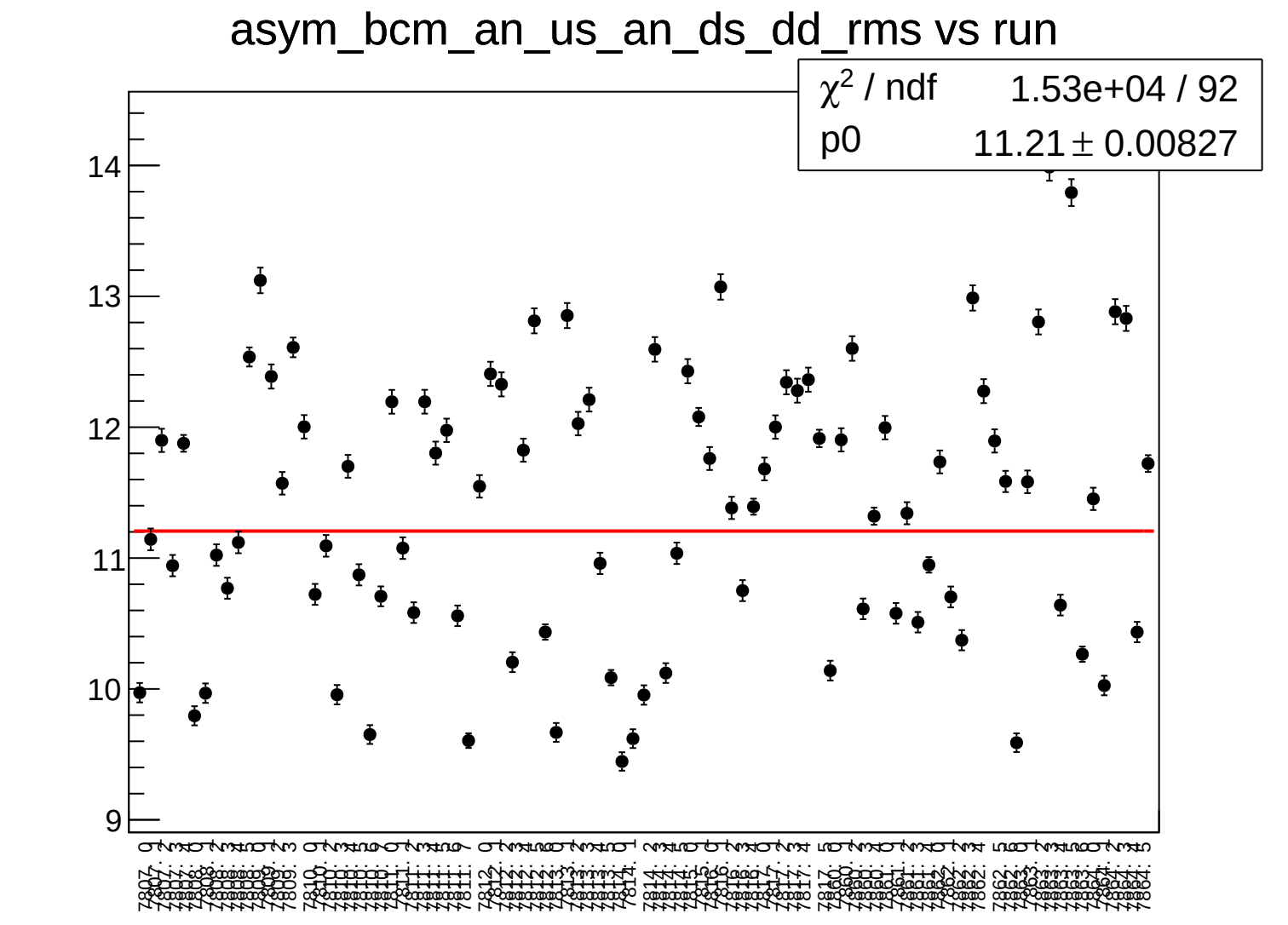

asym_bcm_2an_us_an_ds_dd_rms vs run
χ² / ndf 3.754e+05 / 92
p0 62.65 ± 0.05157
120
100
80
60
40

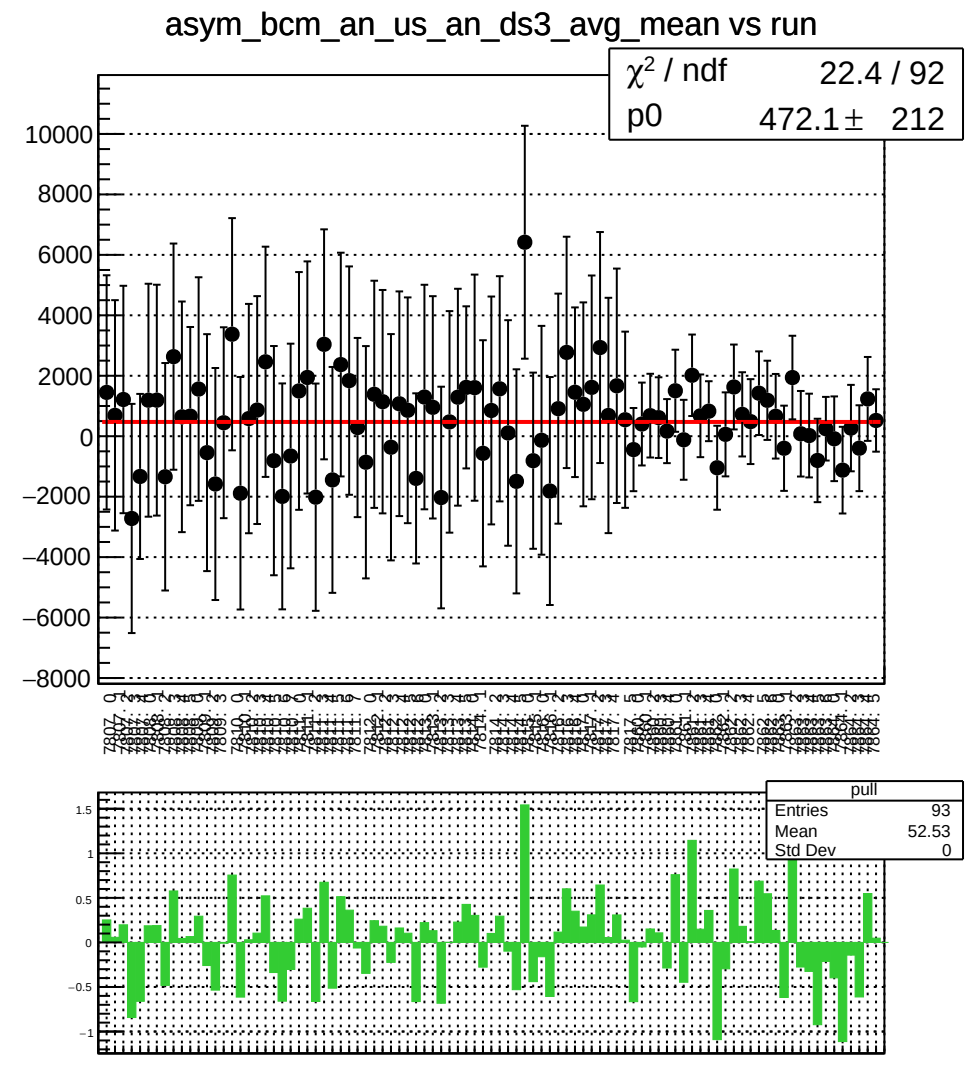

asym_bcm_an_us_an_ds_avg_mean vs run
χ² / ndf 22.25 / 92
p0 465.6 ± 211.6
pull
Entries 93
Mean 46.17
Std Dev 0

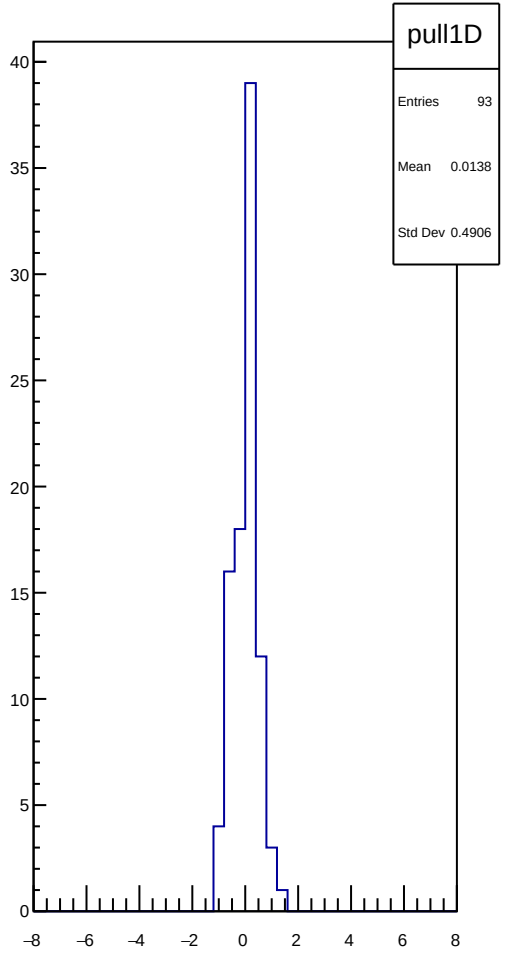

pull1D
Entries 93
Mean 0.01463
Std Dev 0.4889

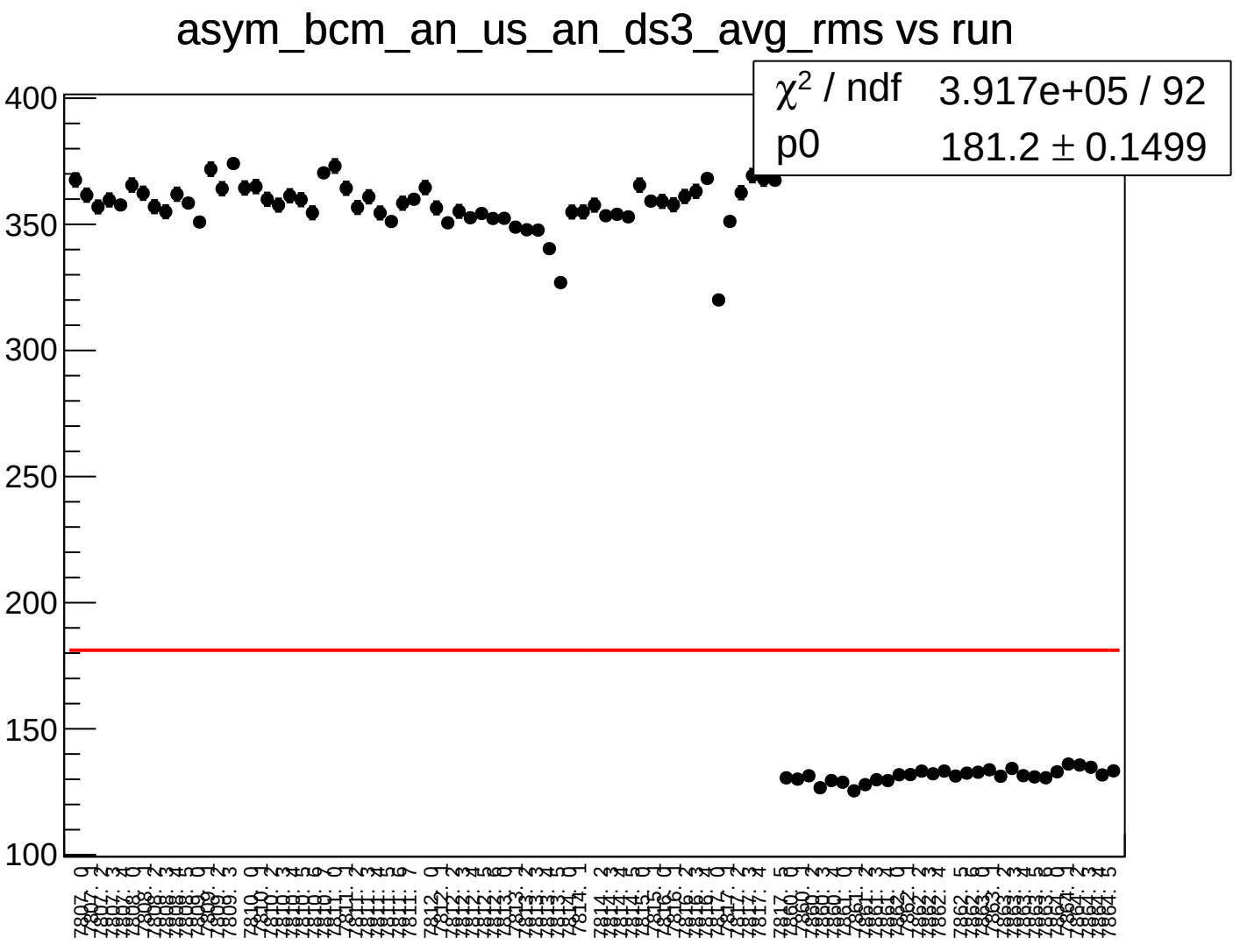

asym_bcm_an_us_an_ds_avg_rms vs run
χ² / ndf 3.912e+05 / 92
p0 180.9 ± 0.1497
400
350
300
250
200
150
100

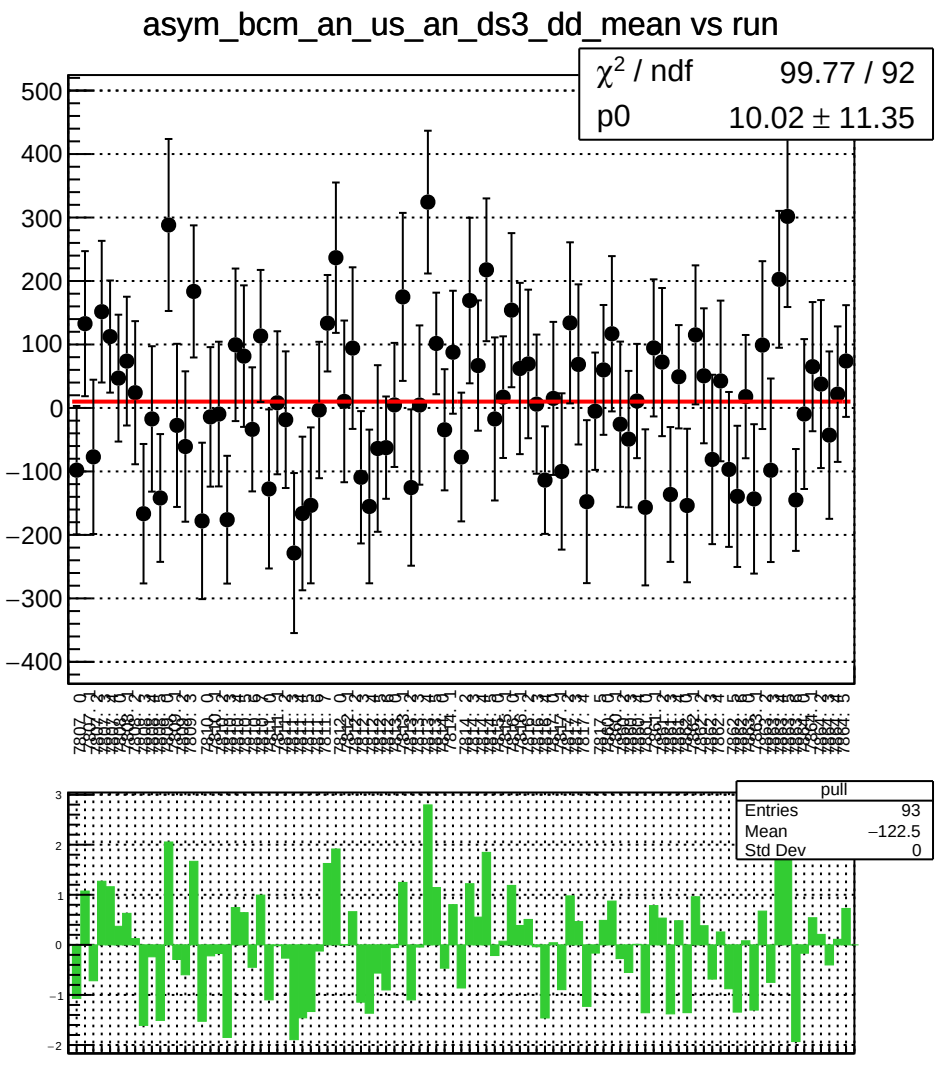

asym_bcm_an_us_an_ds_dd_mean vs run
χ² / ndf 99.65 / 92
p0 10.77 ± 11.7
400
200
0
−200
−400
pull
Entries 93
Mean 487.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.004572
Std Dev 1.035
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

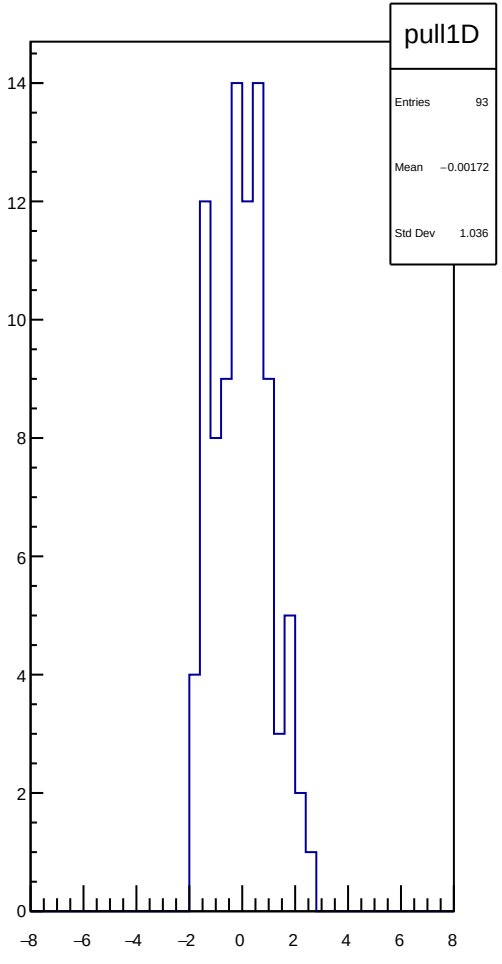

asym_bcm_an_us_an_ds_dd_rms vs run
χ^2 / ndf 1.53e+04 / 92
p0 11.21 ± 0.00827
14
13
12
11
10
9

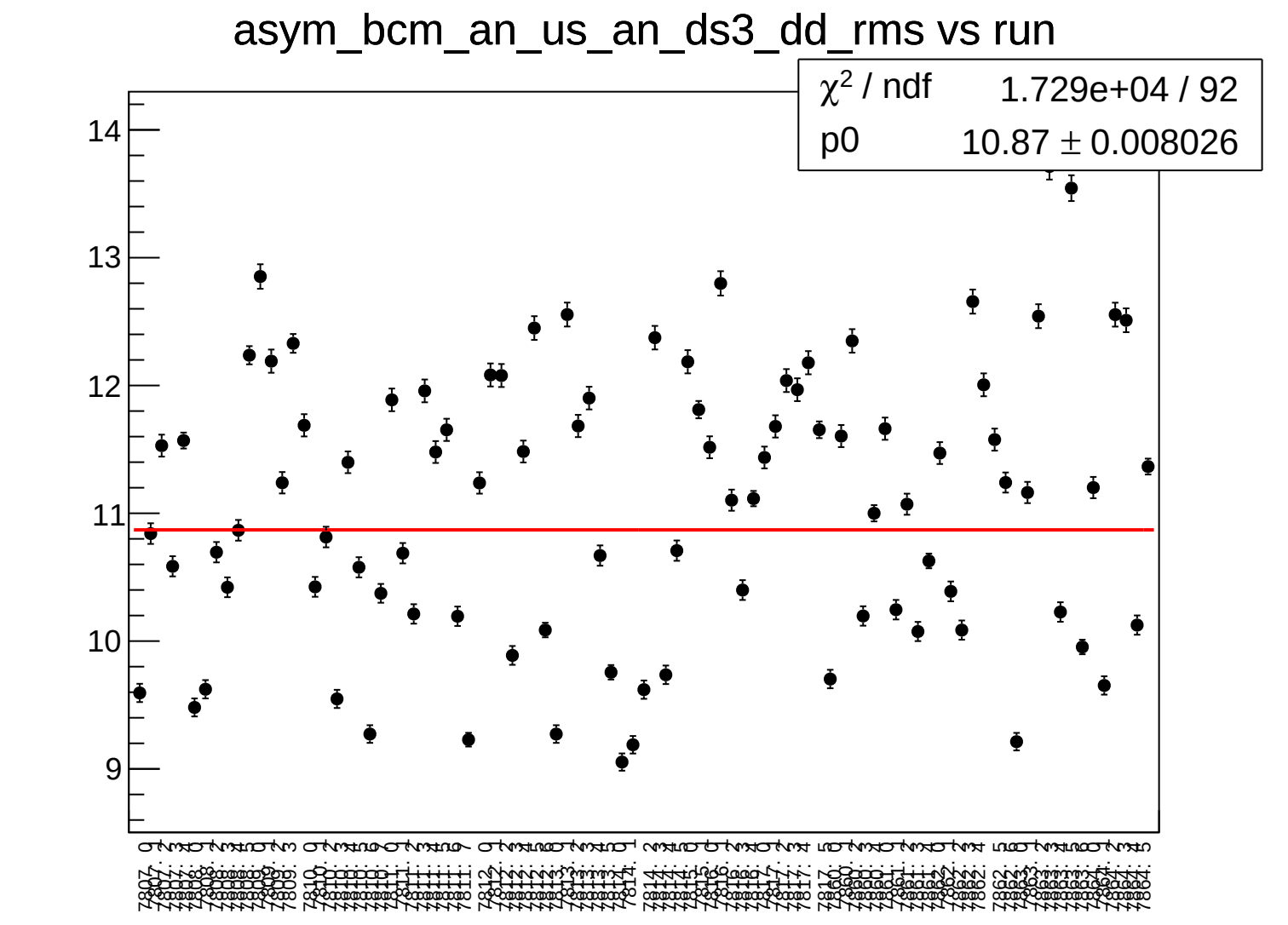

asym_bcm_an_us_an_ds3_avg_mean vs run
χ² / ndf 22.4 / 92
p0 472.1 ± 212
pull
Entries 93
Mean 52.53
Std Dev 0

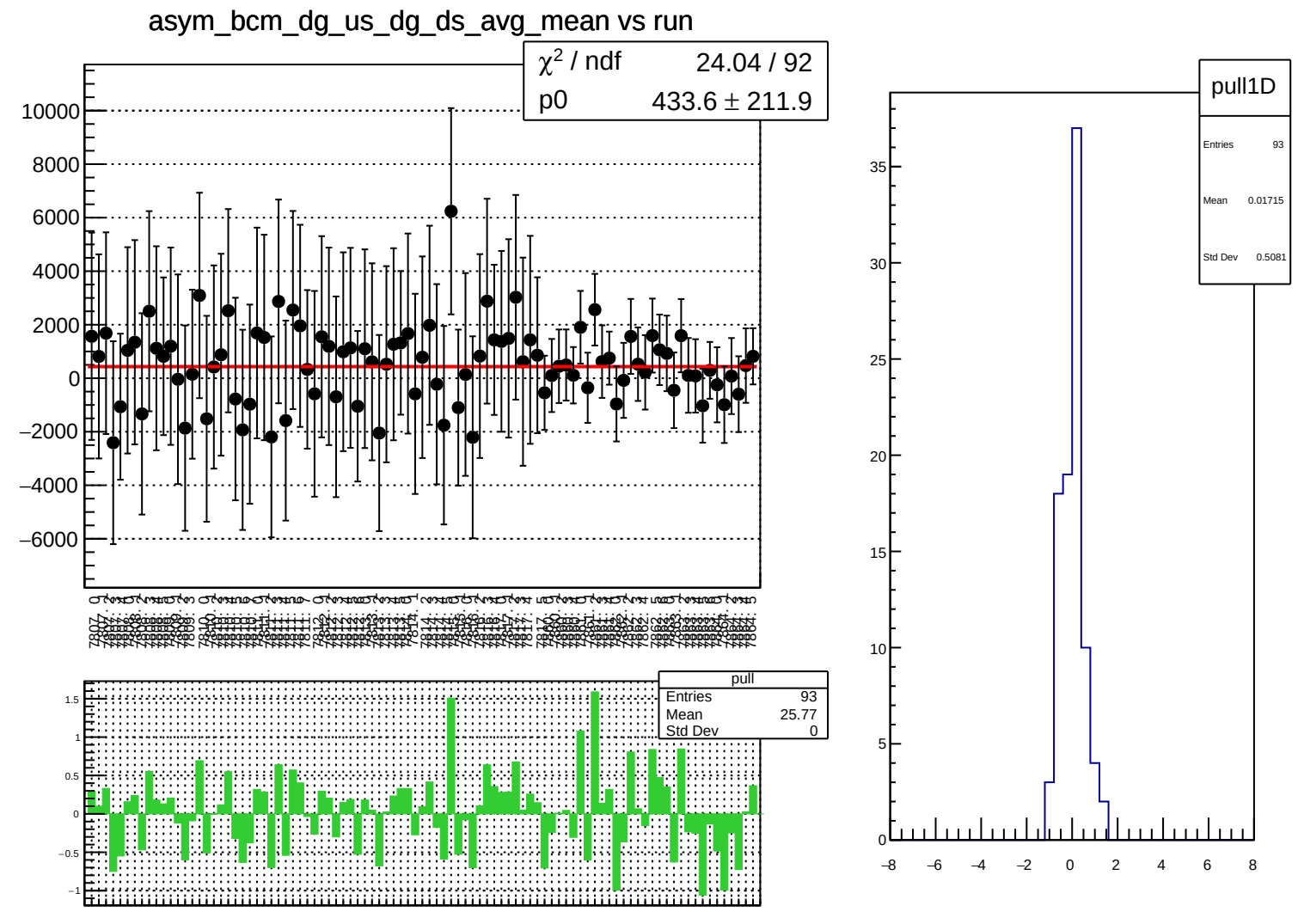

pull1D
Entries 93
Mean 0.0138
Std Dev 0.4906

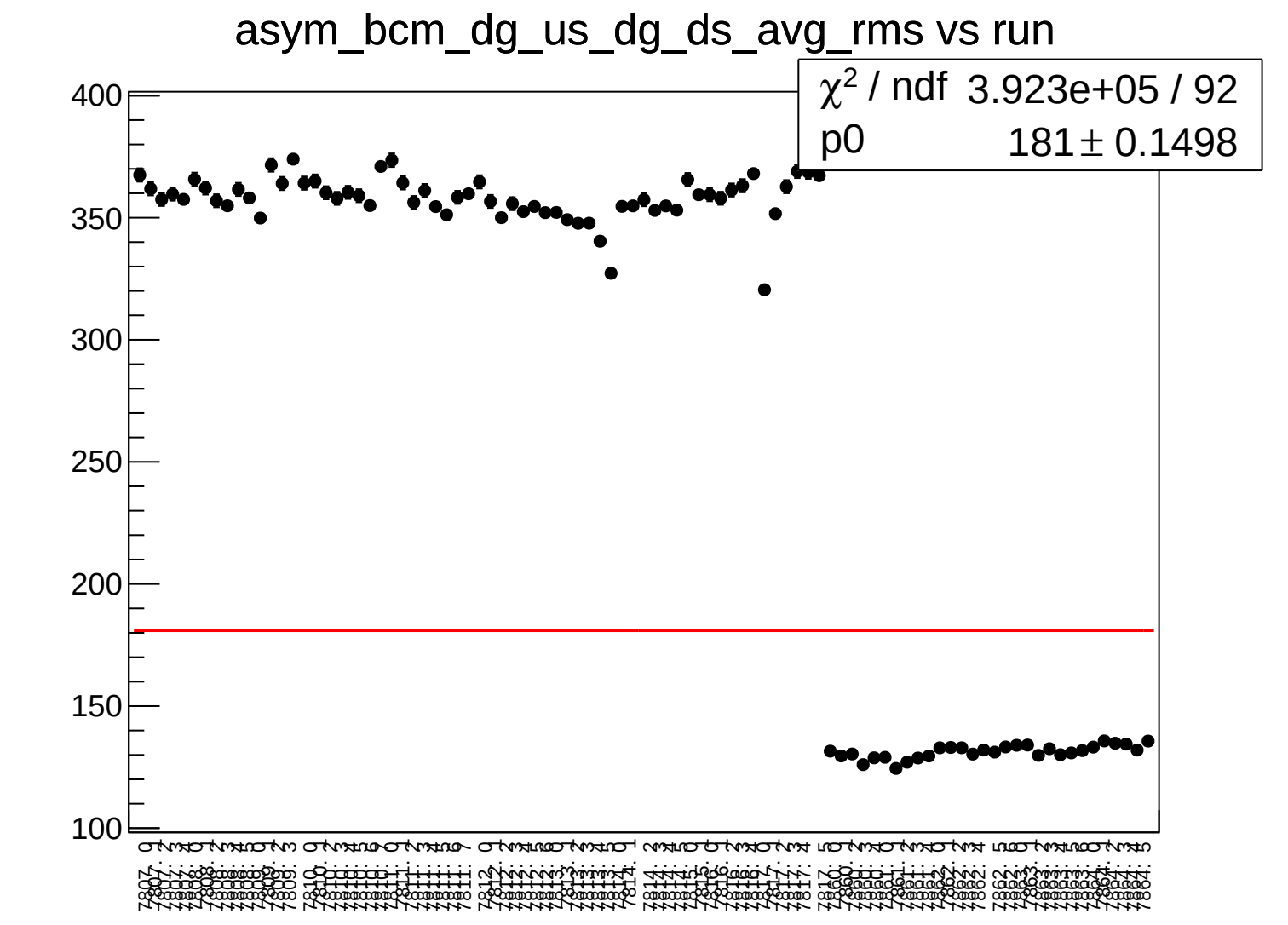

asym_bcm_an_us_an_ds3_avg_rms vs run
χ² / ndf 3.917e+05 / 92
p0 181.2 ± 0.1499
400
350
300
250
200
150
100

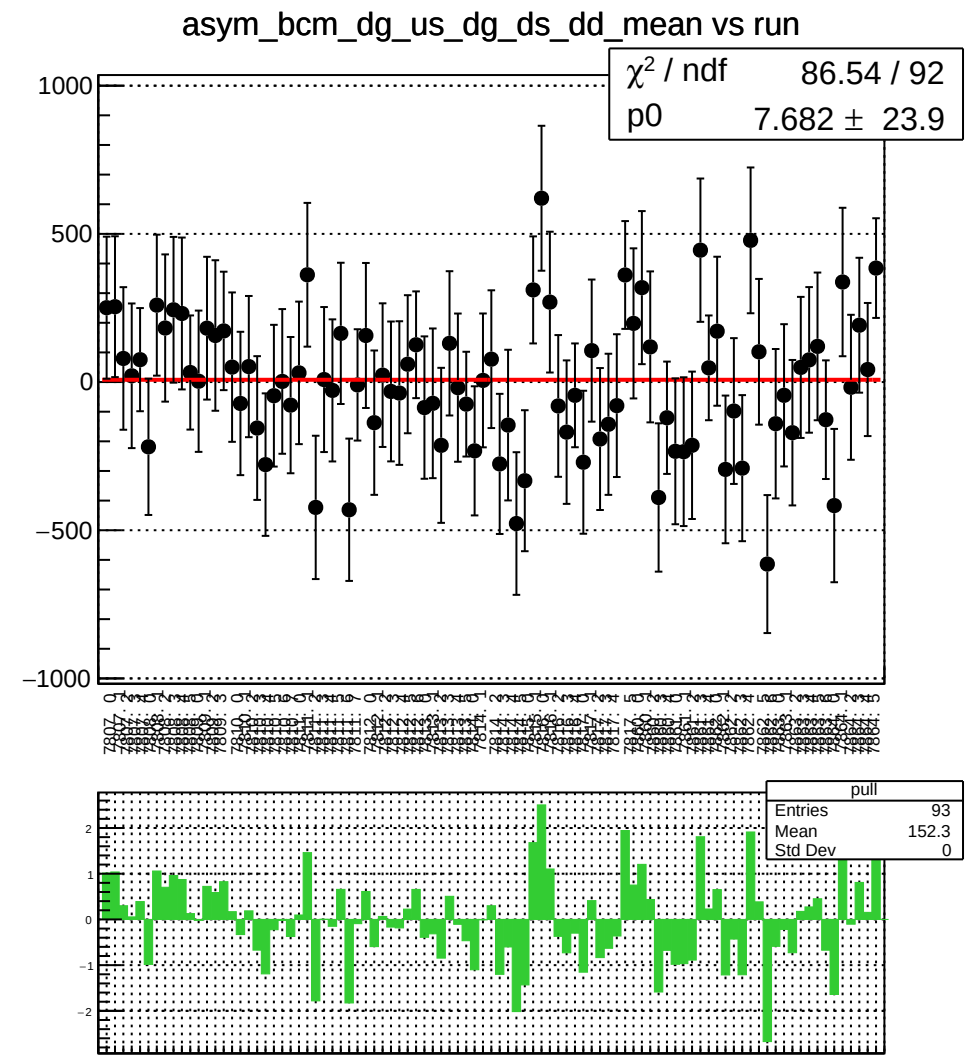

asym_bcm_an_us_an_ds3_dd_mean vs run
χ² / ndf 99.77 / 92
p0 10.02 ± 11.35
pull
Entries 93
Mean −122.5
Std Dev 0

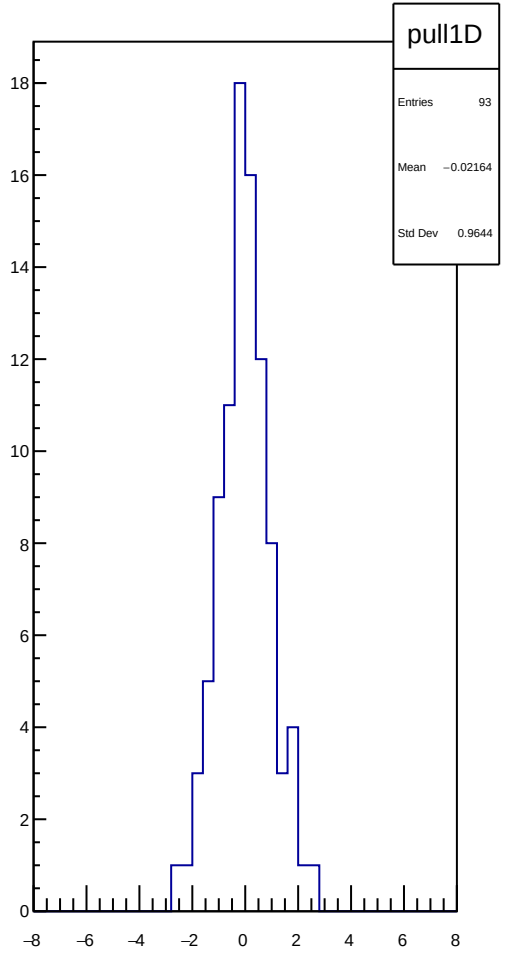

pull1D
Entries 93
Mean −0.00172
Std Dev 1.036

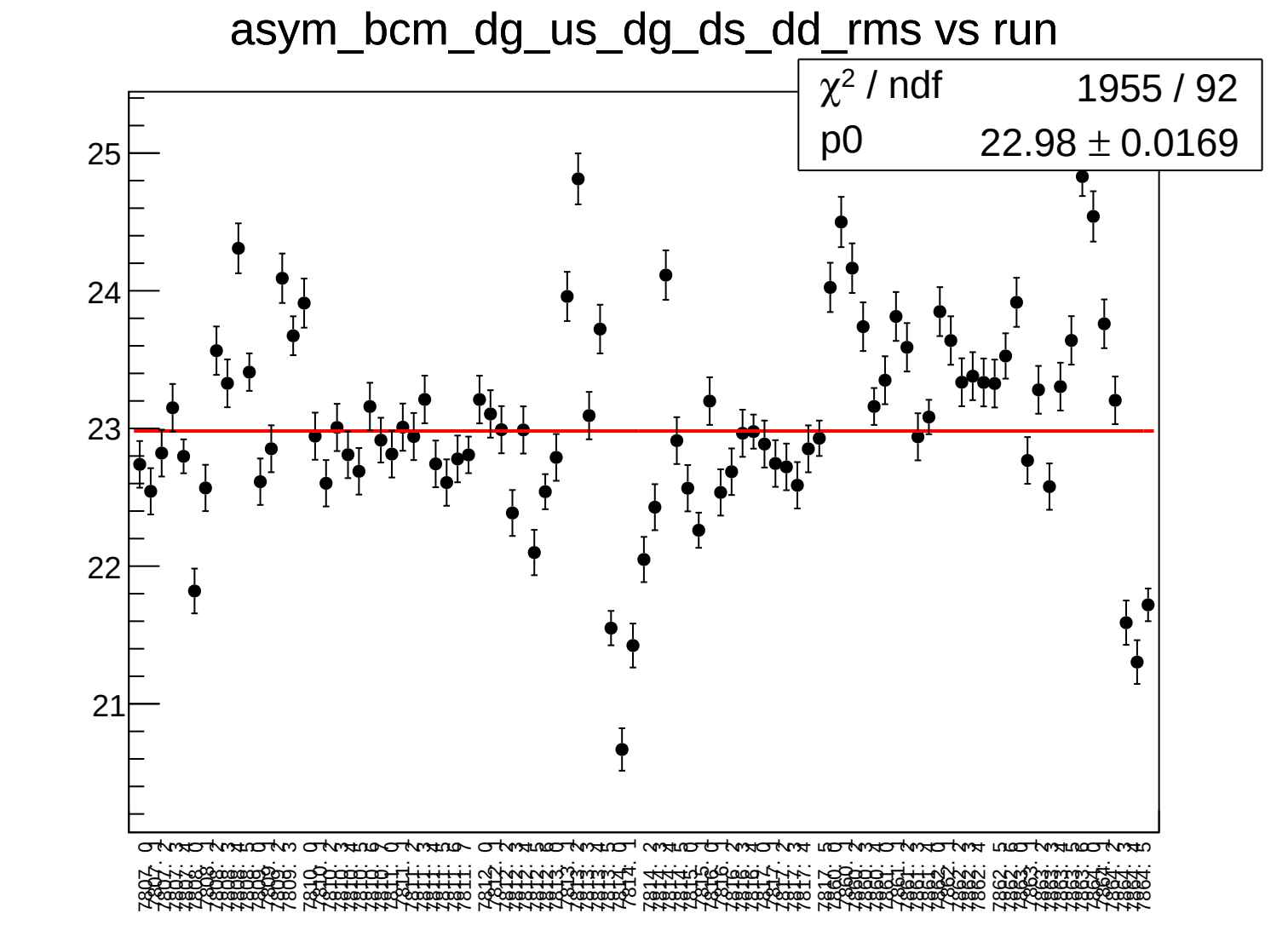

asym_bcm_an_us_an_ds3_dd_rms vs run
χ^2 / ndf 1.729e+04 / 92
p0 10.87 ± 0.008026
14
13
12
11
10
9

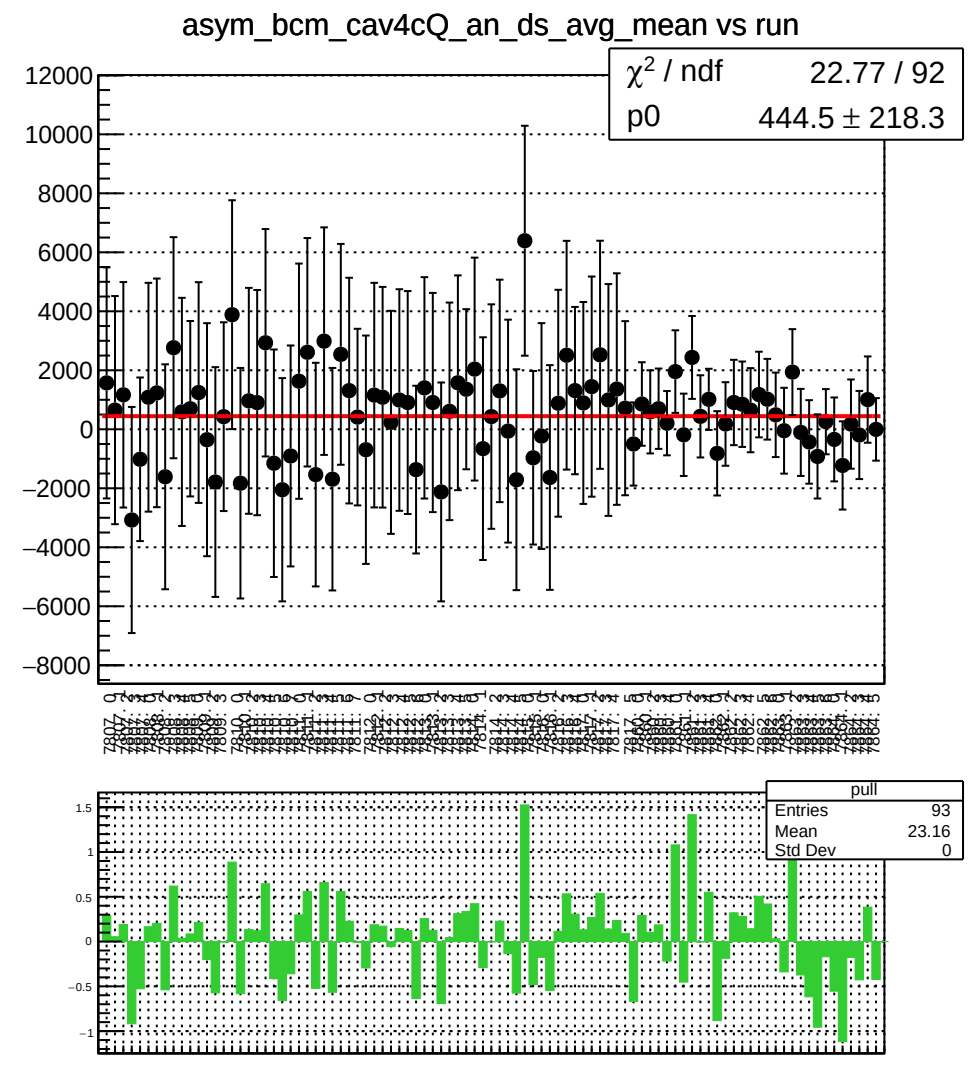

asym_bcm_dg_us_dg_ds_avg_mean vs run
χ² / ndf 24.04 / 92
p0 433.6 ± 211.9
pull
Entries 93
Mean 25.77
Std Dev 0
pull1D
Entries 93
Mean 0.01715
Std Dev 0.5081

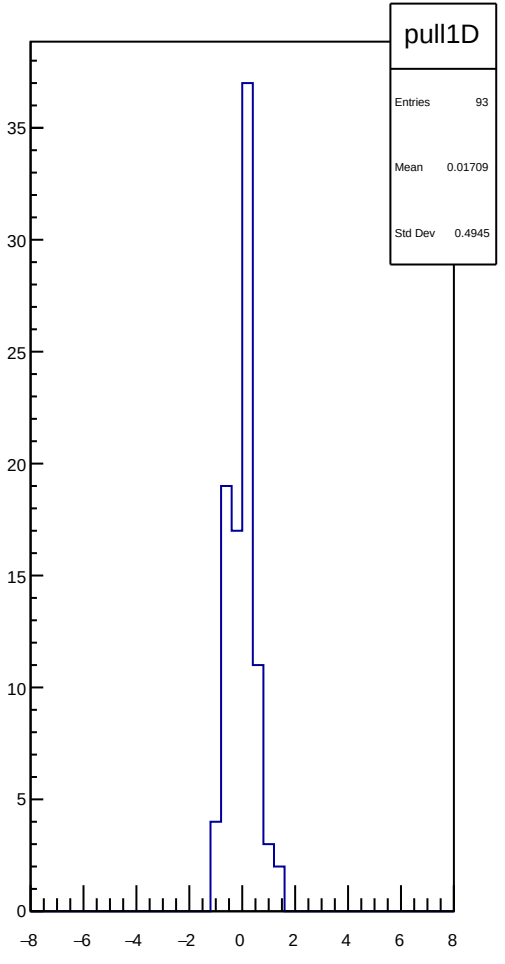

asym_bcm_dg_us_dg_ds_avg_rms vs run
χ² / ndf 3.923e+05 / 92
p0 181 ± 0.1498
400
350
300
250
200
150
100

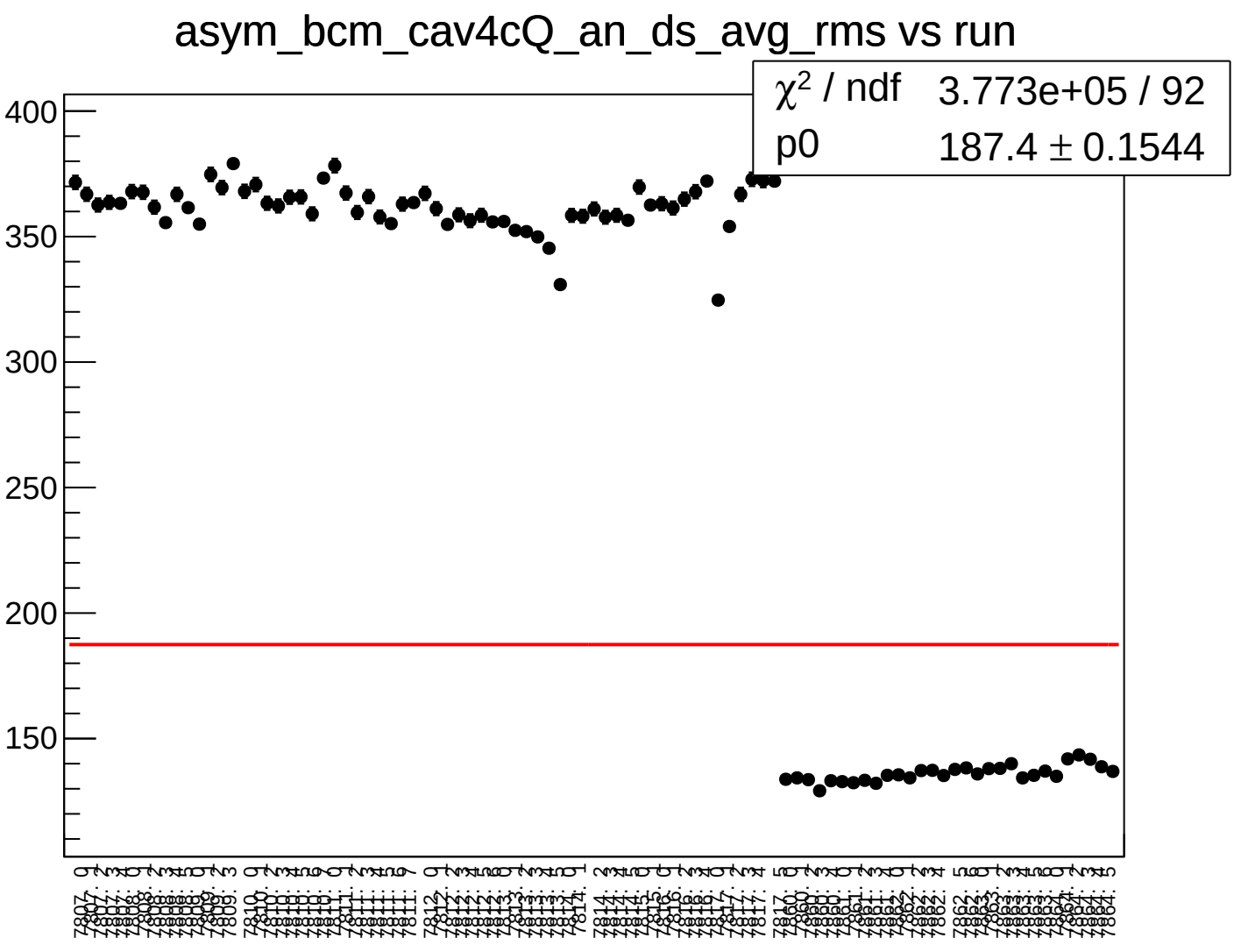

asym_bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 86.54 / 92
p0 7.682 ± 23.9
1000
500
0
−500
−1000
pull
Entries 93
Mean 152.3
Std Dev 0
2
1
0
−1
−2

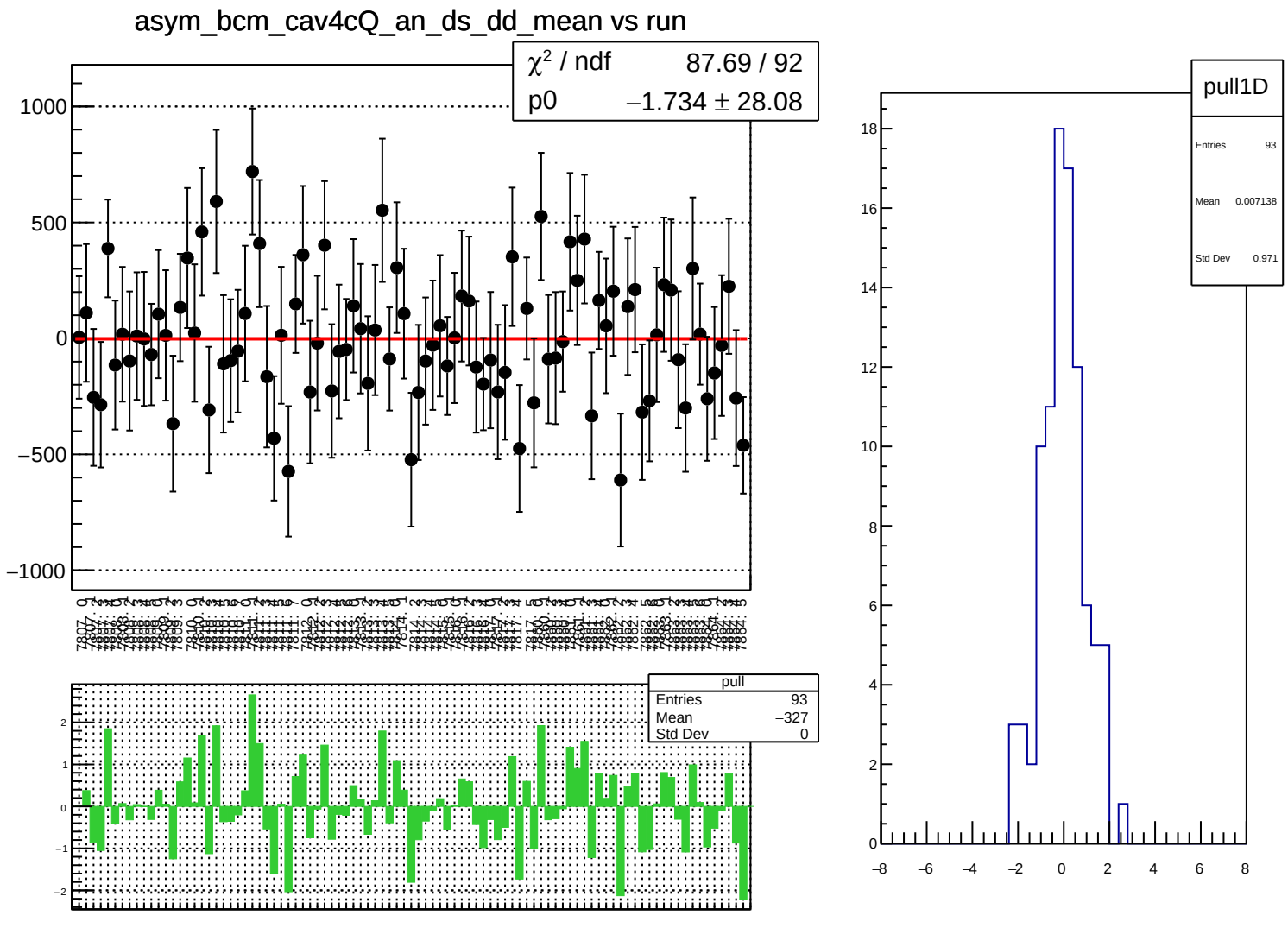

pull1D
Entries 93
Mean −0.02164
Std Dev 0.9644
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

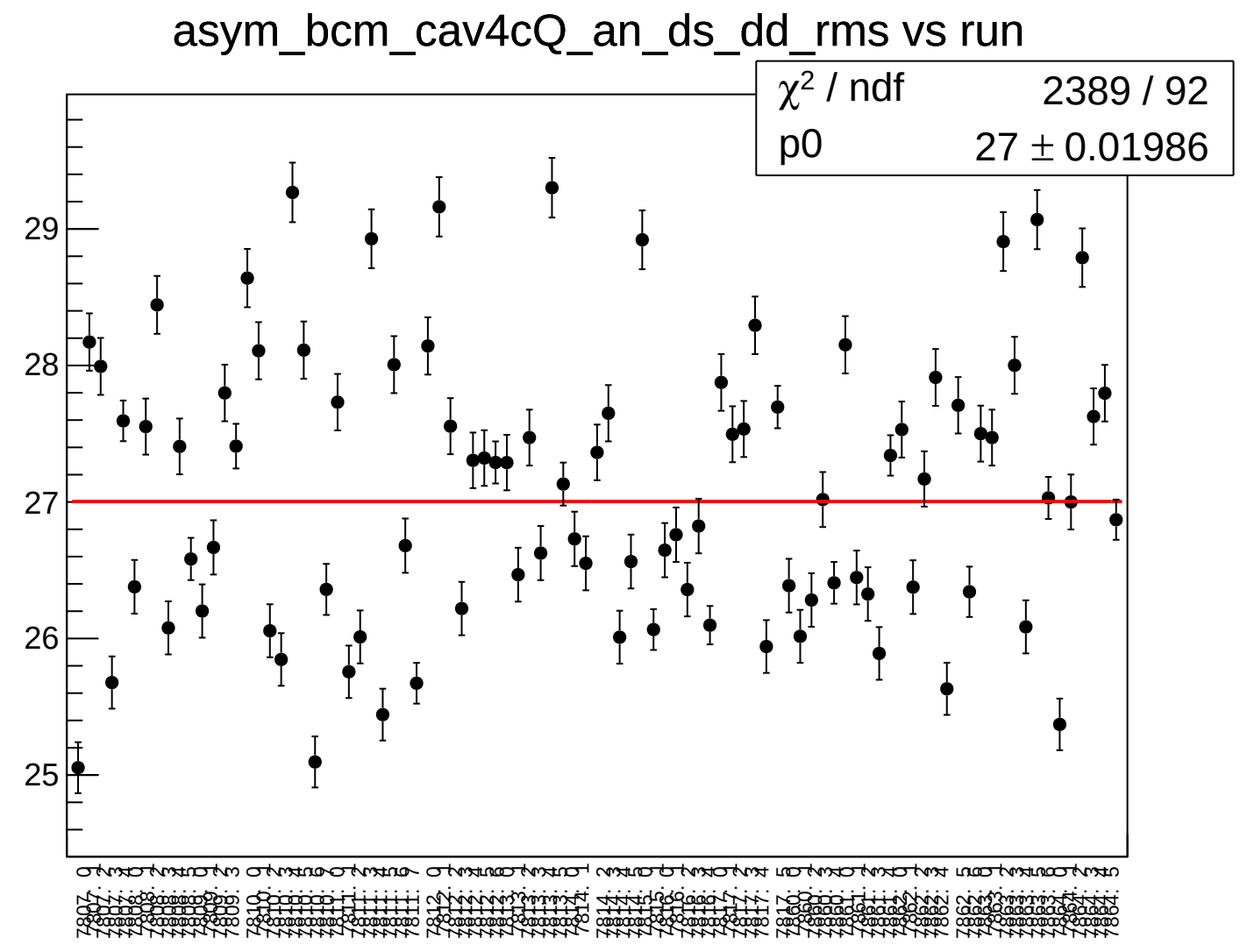

asym_bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 1955 / 92
p0 22.98 ± 0.0169
25
24
23
22
21

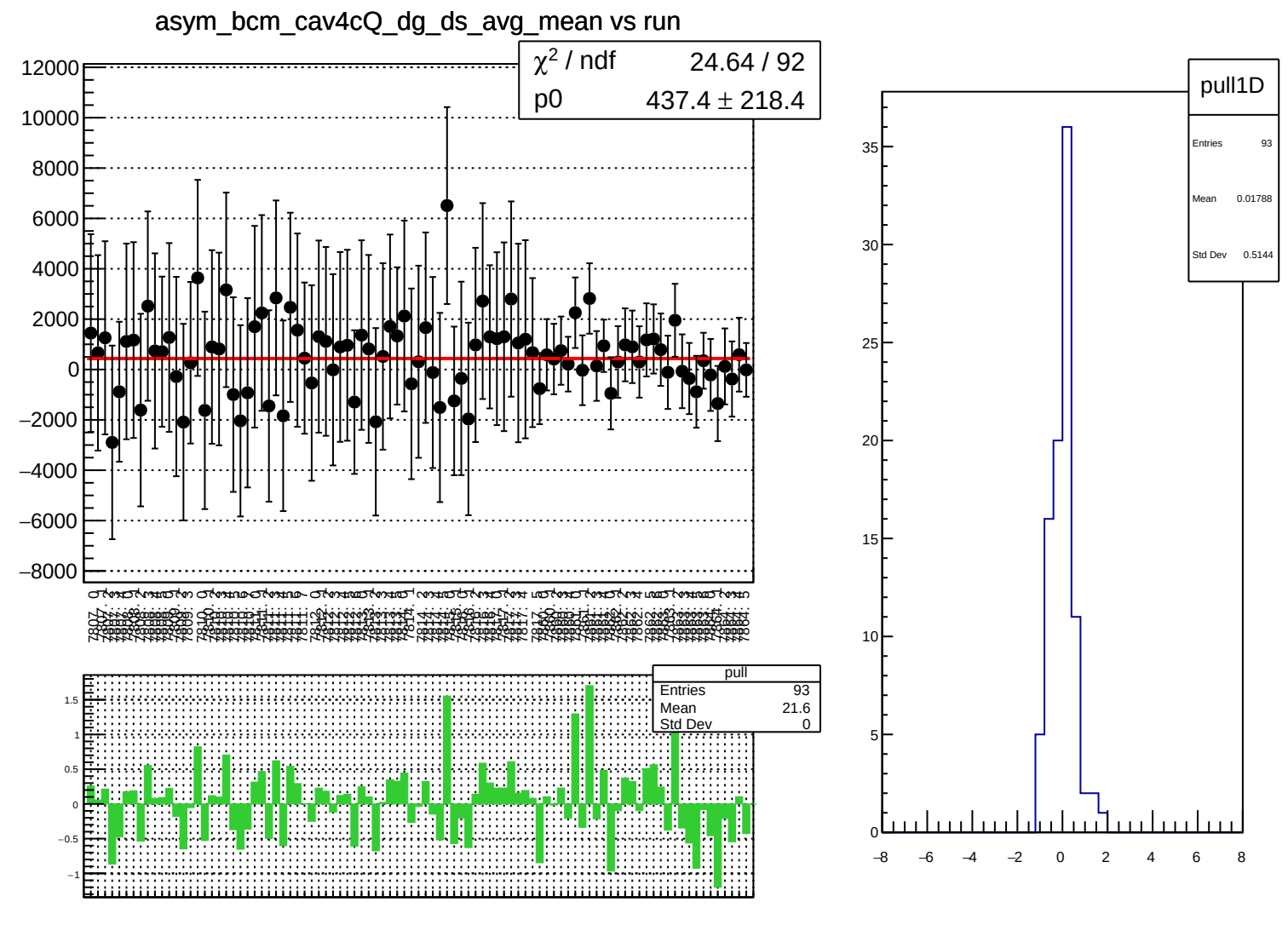

asym_bcm_cav4cQ_an_ds_avg_mean vs run
χ² / ndf 22.77 / 92
p0 444.5 ± 218.3
pull
Entries 93
Mean 23.16
Std Dev 0

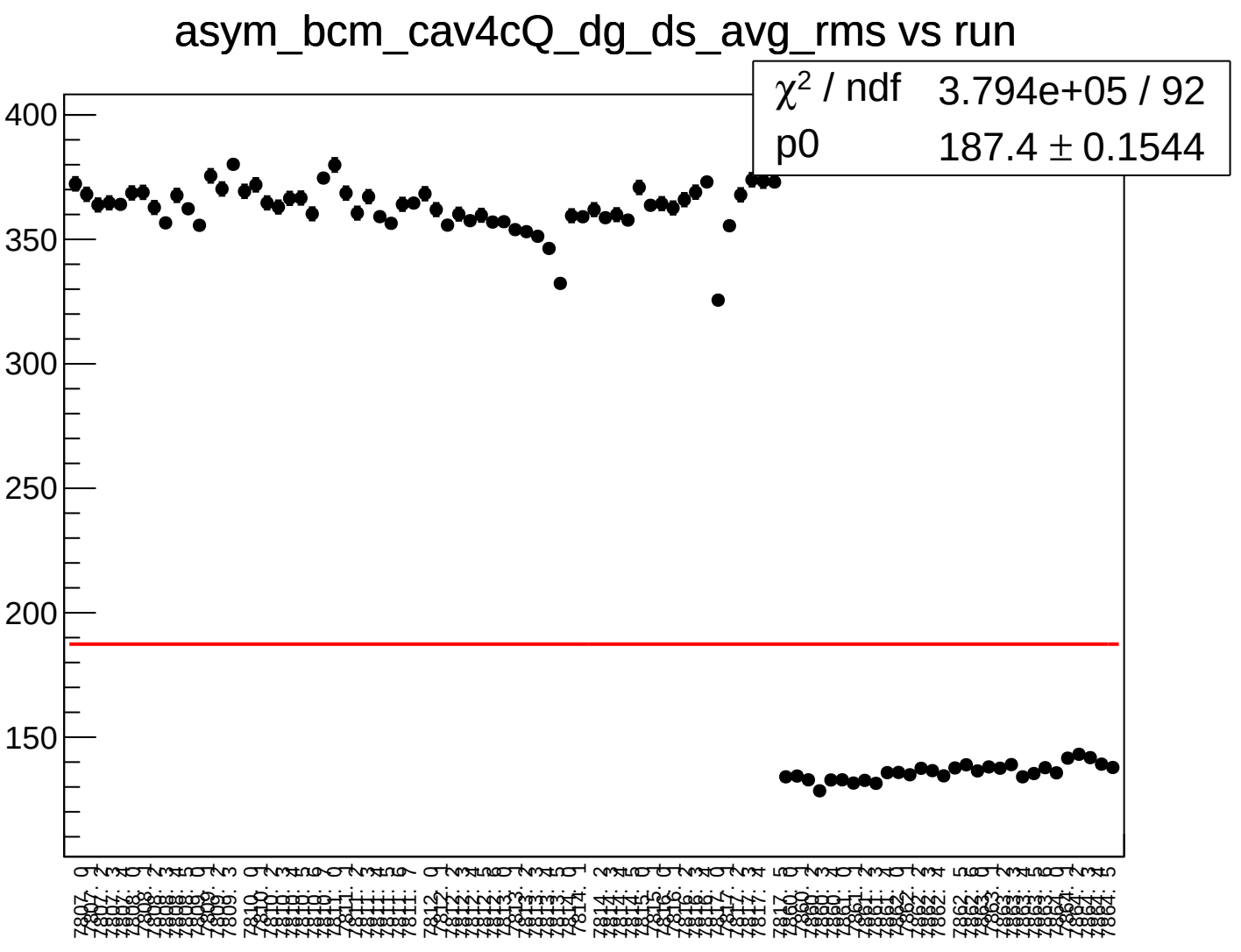

pull1D
Entries 93
Mean 0.01709
Std Dev 0.4945

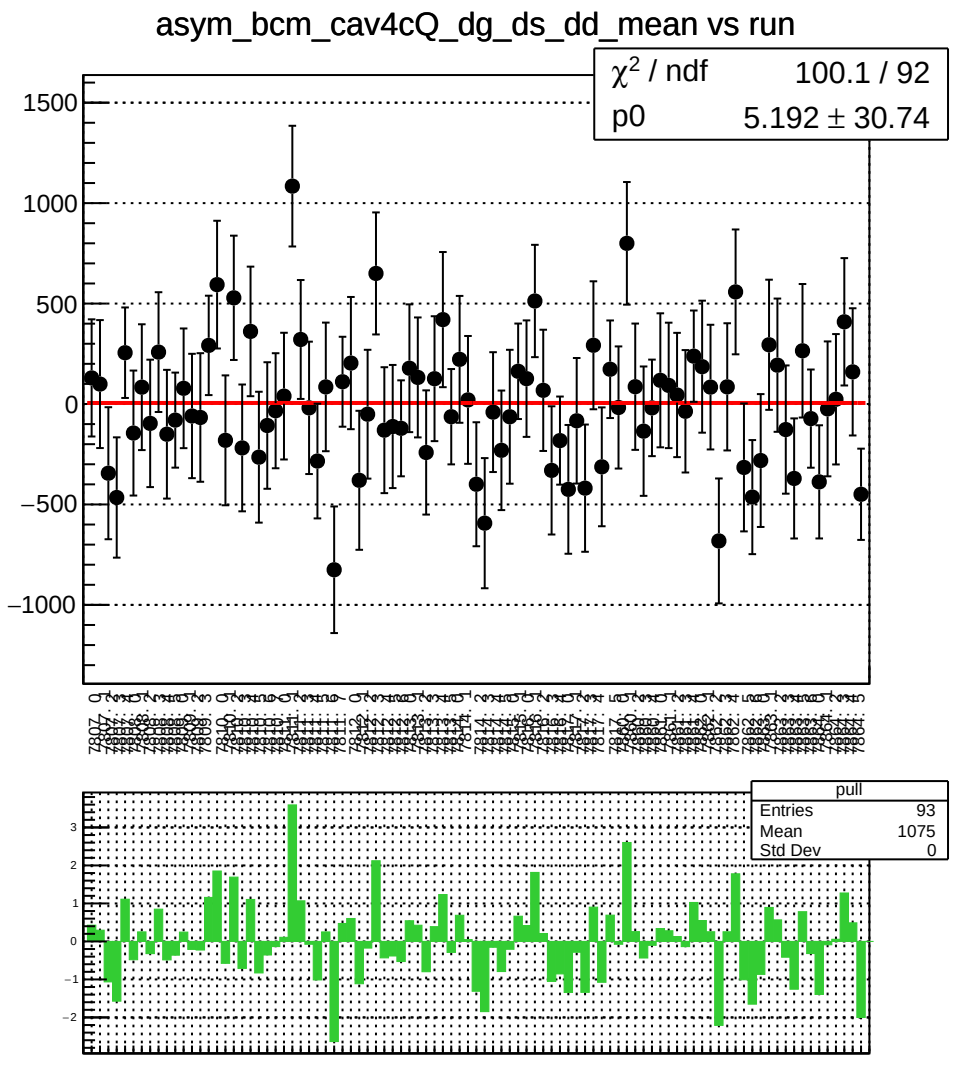

asym_bcm_cav4cQ_an_ds_avg_rms vs run
χ² / ndf 3.773e+05 / 92
p0 187.4 ± 0.1544
400
350
300
250
200
150

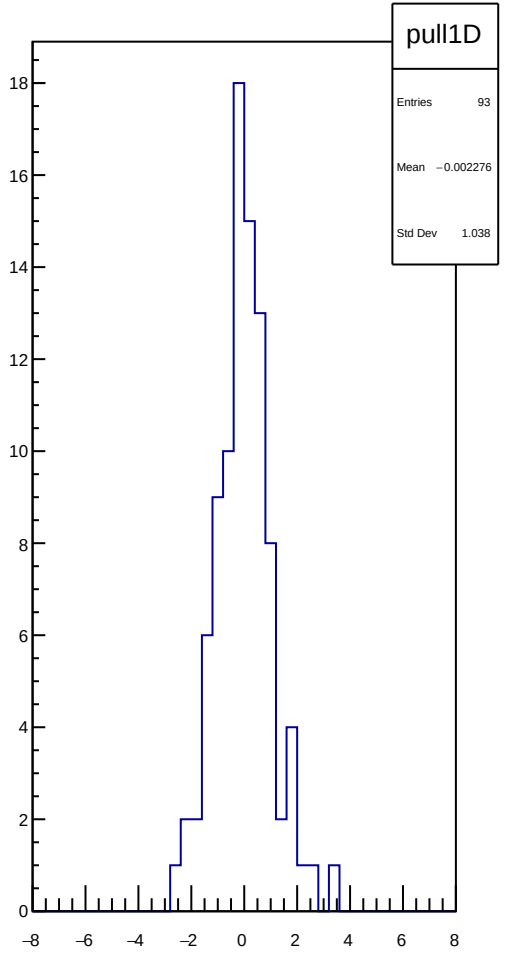

asym_bcm_cav4cQ_an_ds_dd_mean vs run
χ² / ndf 87.69 / 92
p0 −1.734 ± 28.08
1000
500
0
−500
−1000
pull
Entries 93
Mean −327
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.007138
Std Dev 0.971
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

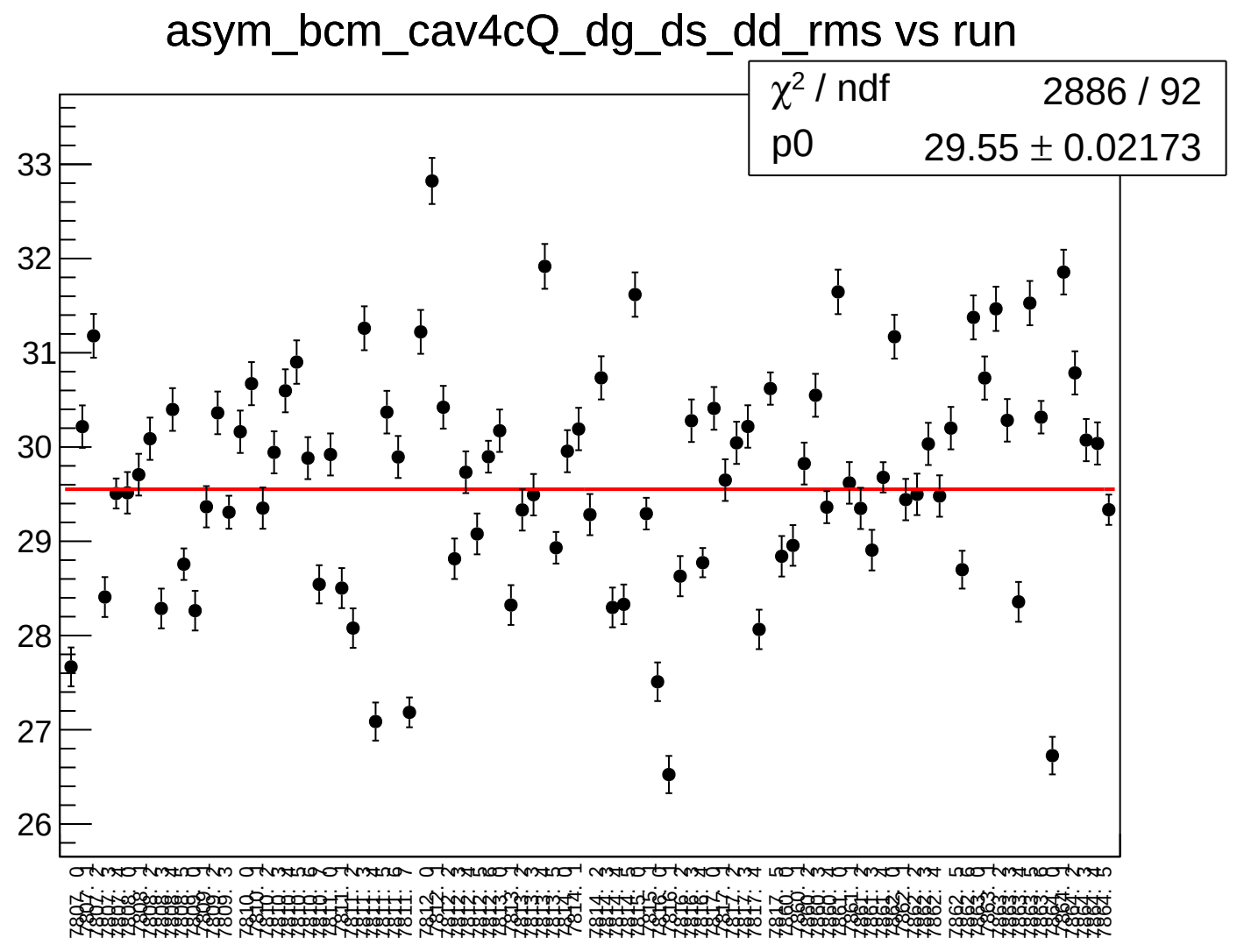

asym_bcm_cav4cQ_an_ds_dd_rms vs run
χ² / ndf 2389 / 92
p0 27 ± 0.01986
29
28
27
26
25

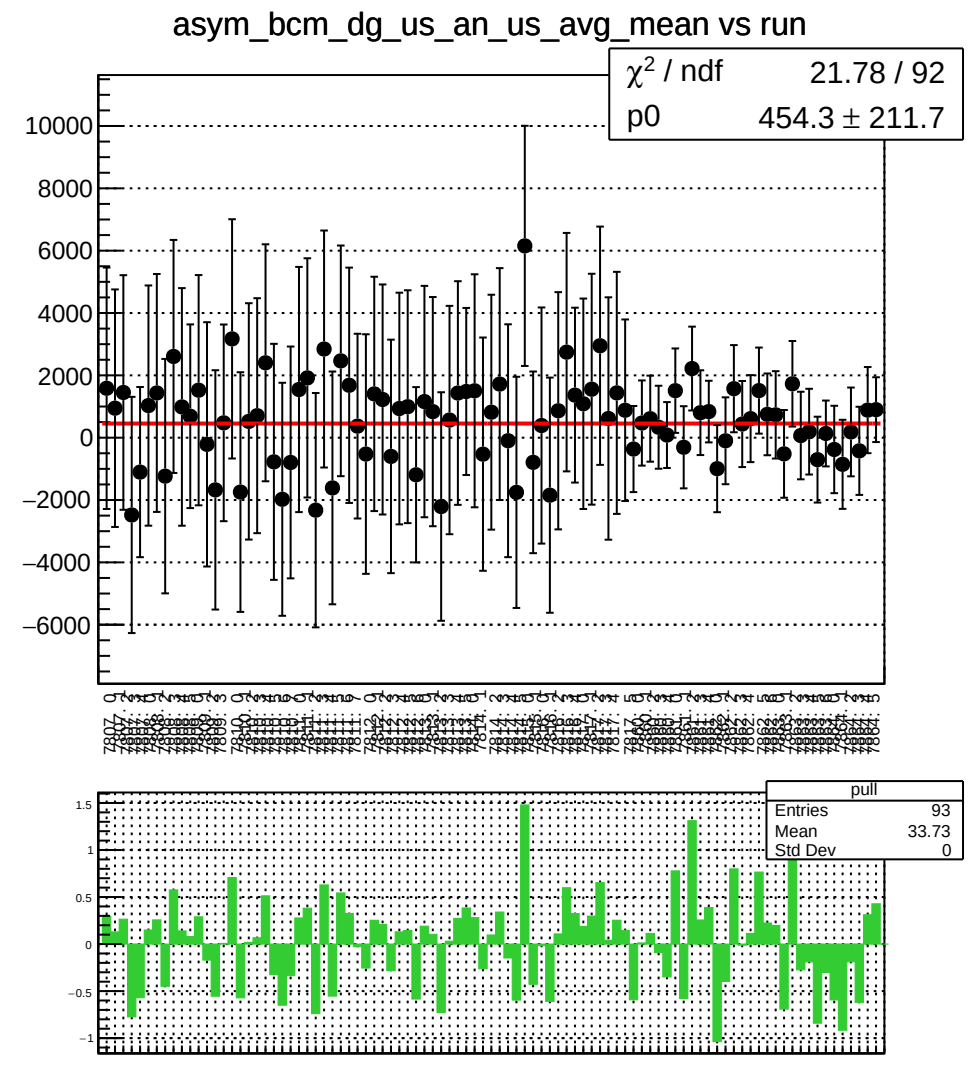

asym_bcm_cav4cQ_dg_ds_avg_mean vs run
χ² / ndf 24.64 / 92
p0 437.4 ± 218.4
pull
Entries 93
Mean 21.6
Std Dev 0
pull1D
Entries 93
Mean 0.01788
Std Dev 0.5144

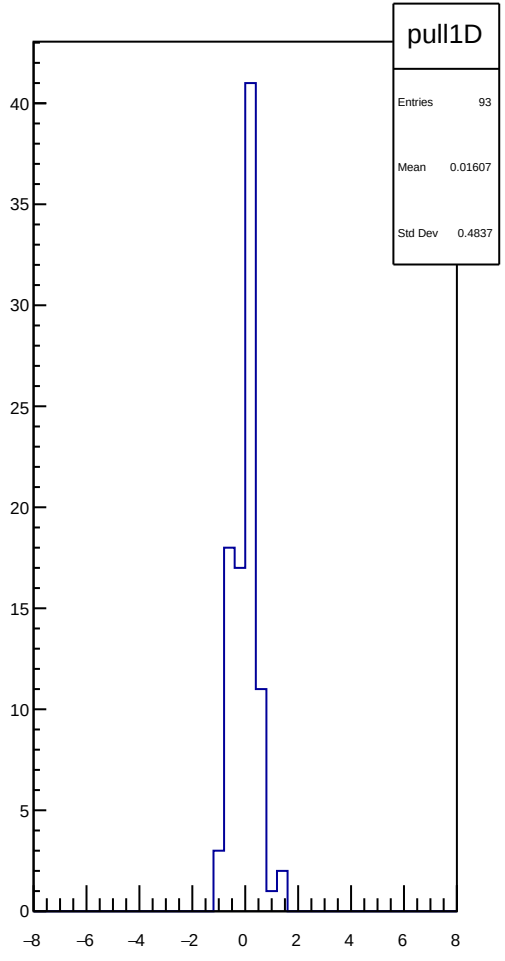

asym_bcm_cav4cQ_dg_ds_avg_rms vs run
χ² / ndf 3.794e+05 / 92
p0 187.4 ± 0.1544
400
350
300
250
200
150

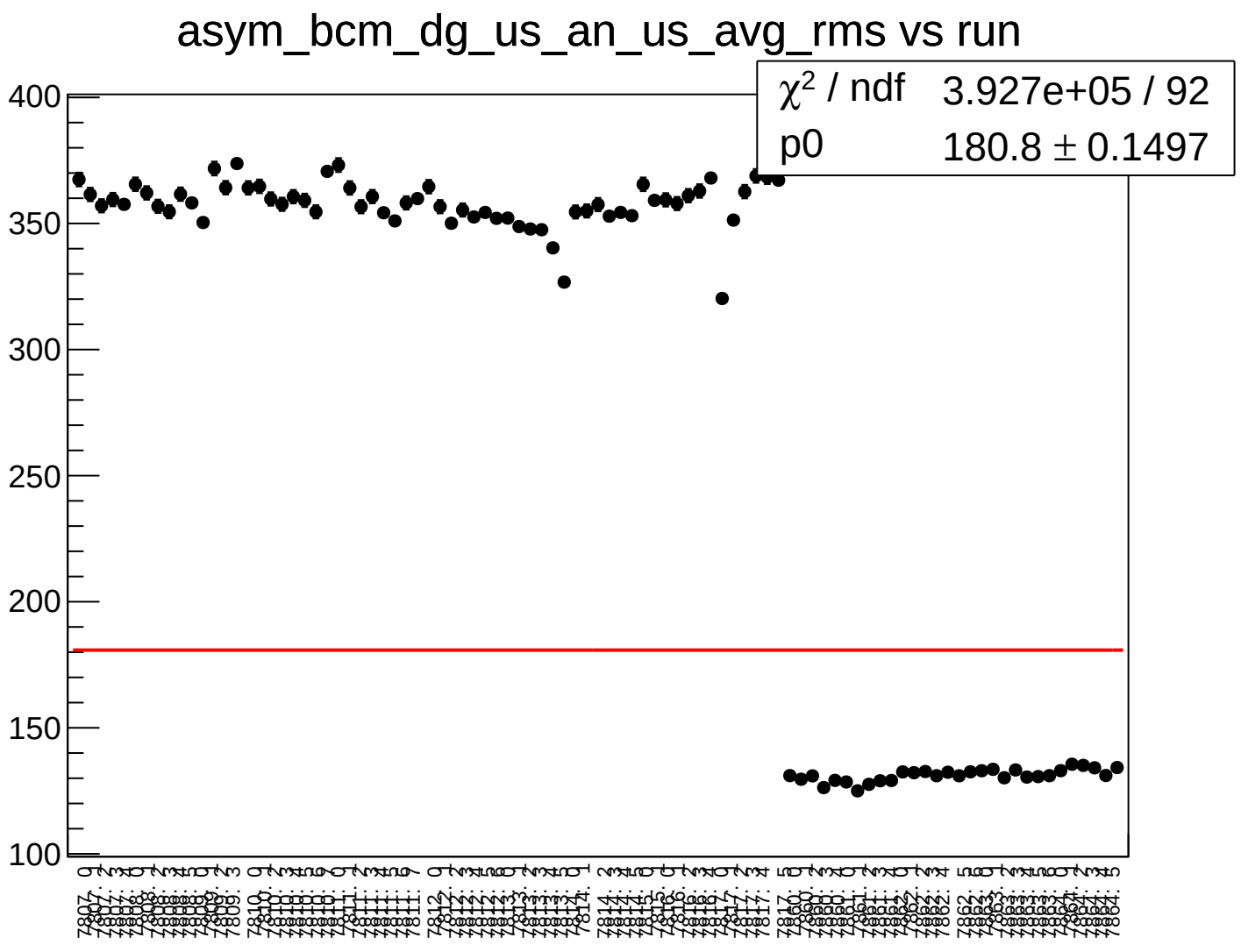

asym_bcm_cav4cQ_dg_ds_dd_mean vs run
χ² / ndf 100.1 / 92
p0 5.192 ± 30.74
1500
1000
500
0
−500
−1000
pull
Entries 93
Mean 1075
Std Dev 0
3
2
1
0
−1
−2

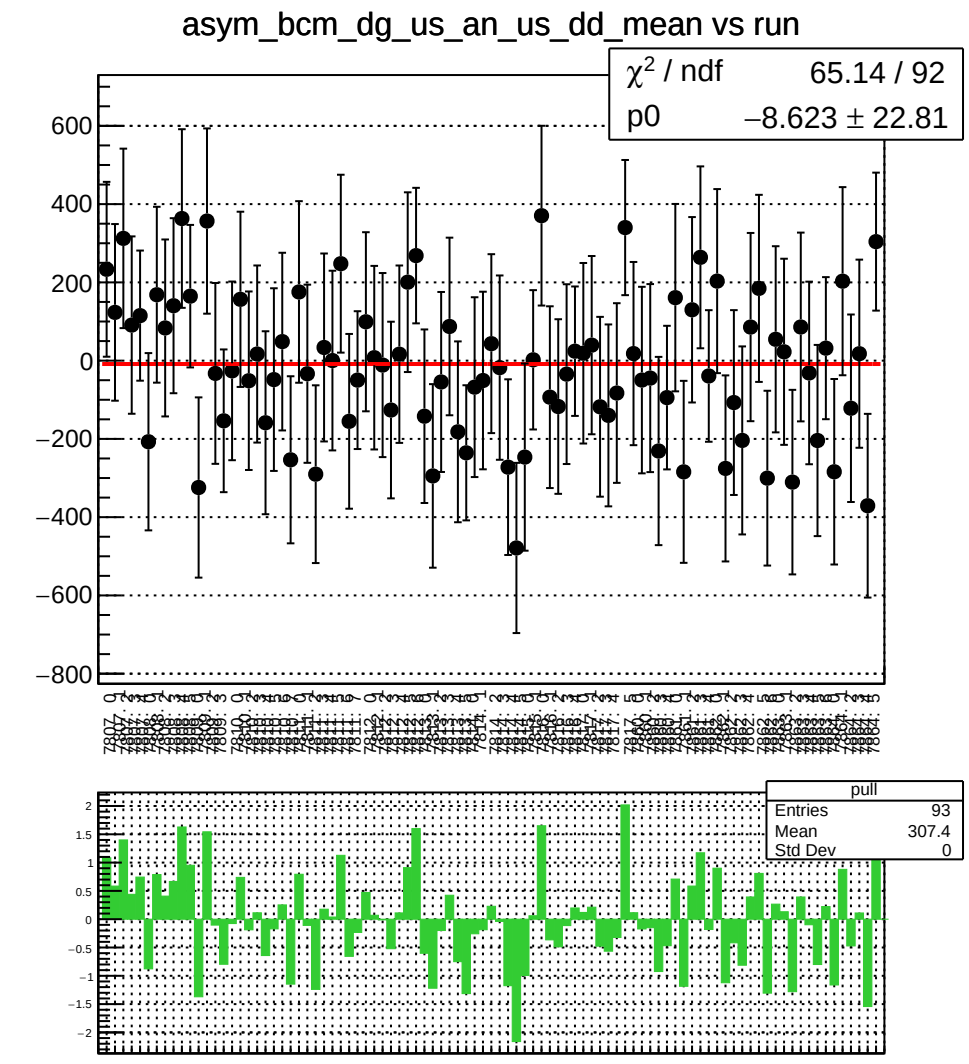

pull1D
Entries 93
Mean −0.002276
Std Dev 1.038
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

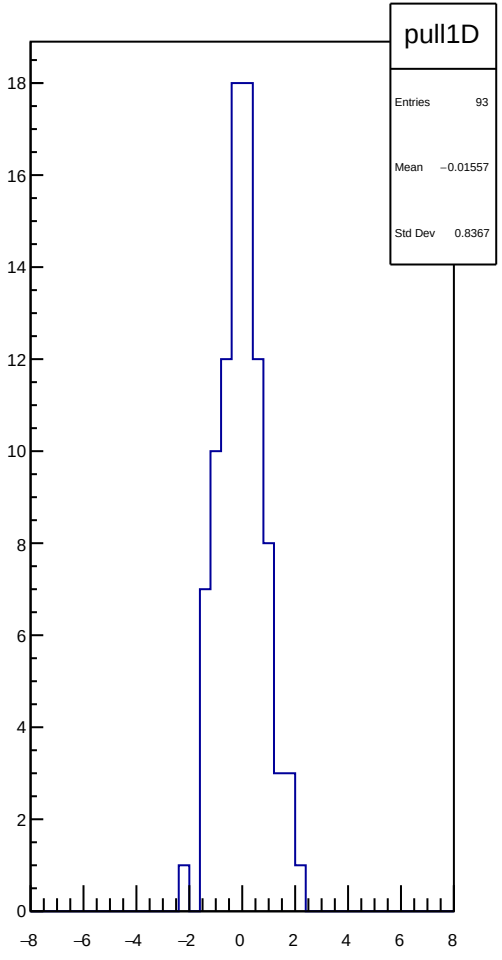

asym_bcm_cav4cQ_dg_ds_dd_rms vs run
χ² / ndf 2886 / 92
p0 29.55 ± 0.02173
33
32
31
30
29
28
27
26

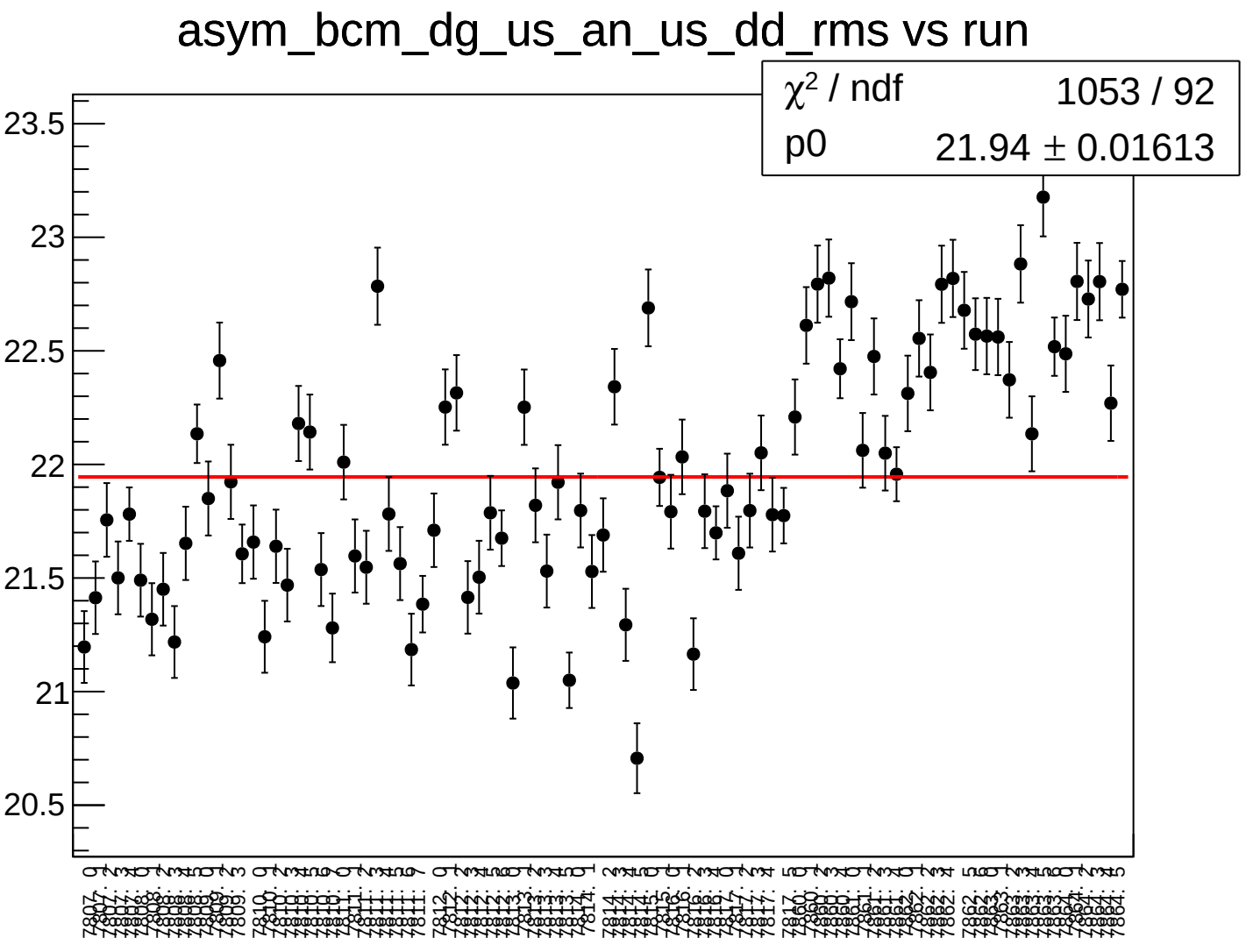

asym_bcm_dg_us_an_us_avg_mean vs run
χ² / ndf 21.78 / 92
p0 454.3 ± 211.7
pull
Entries 93
Mean 33.73
Std Dev 0

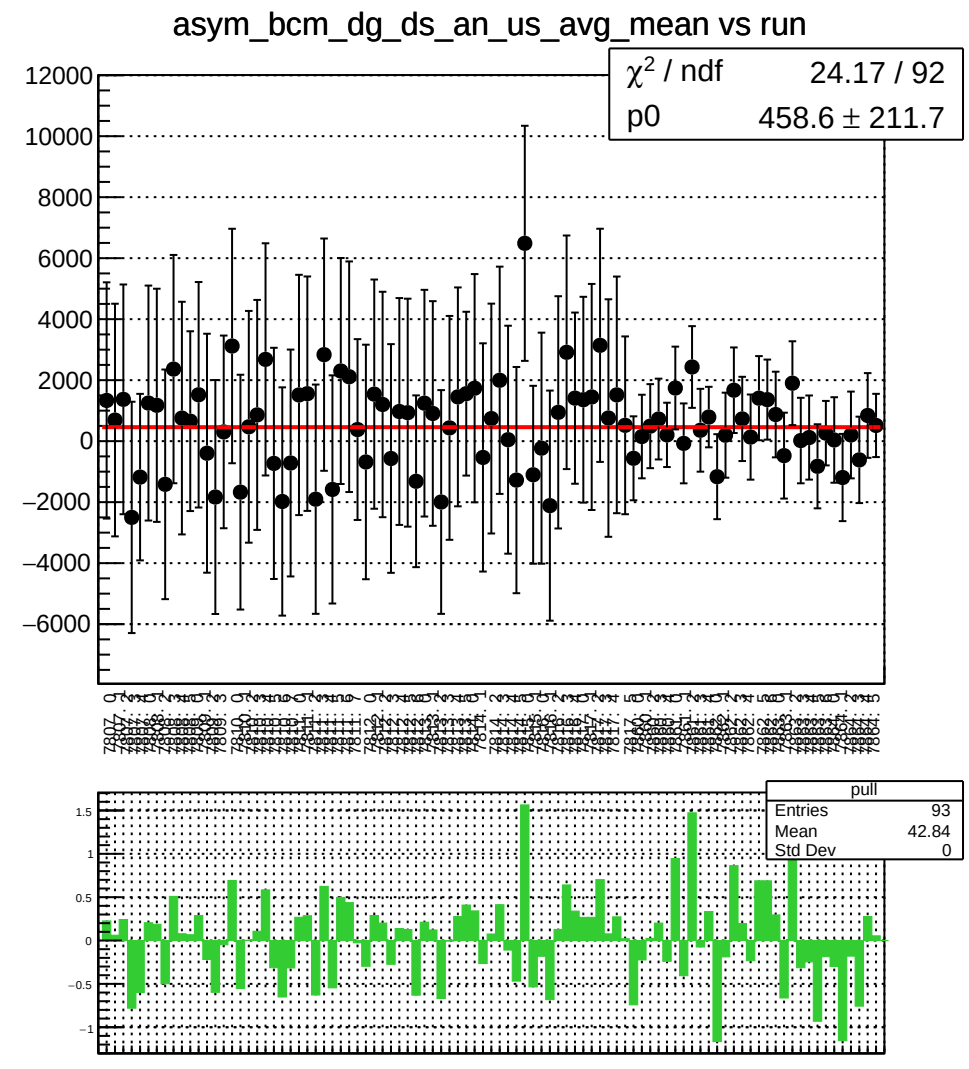

pull1D
Entries 93
Mean 0.01607
Std Dev 0.4837

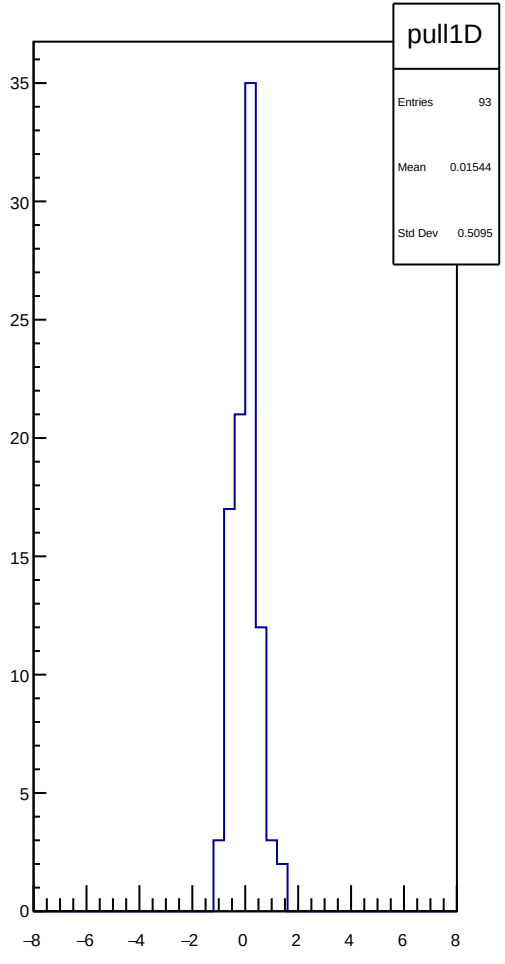

asym_bcm_dg_us_an_us_avg_rms vs run
χ² / ndf 3.927e+05 / 92
p0 180.8 ± 0.1497
400
350
300
250
200
150
100

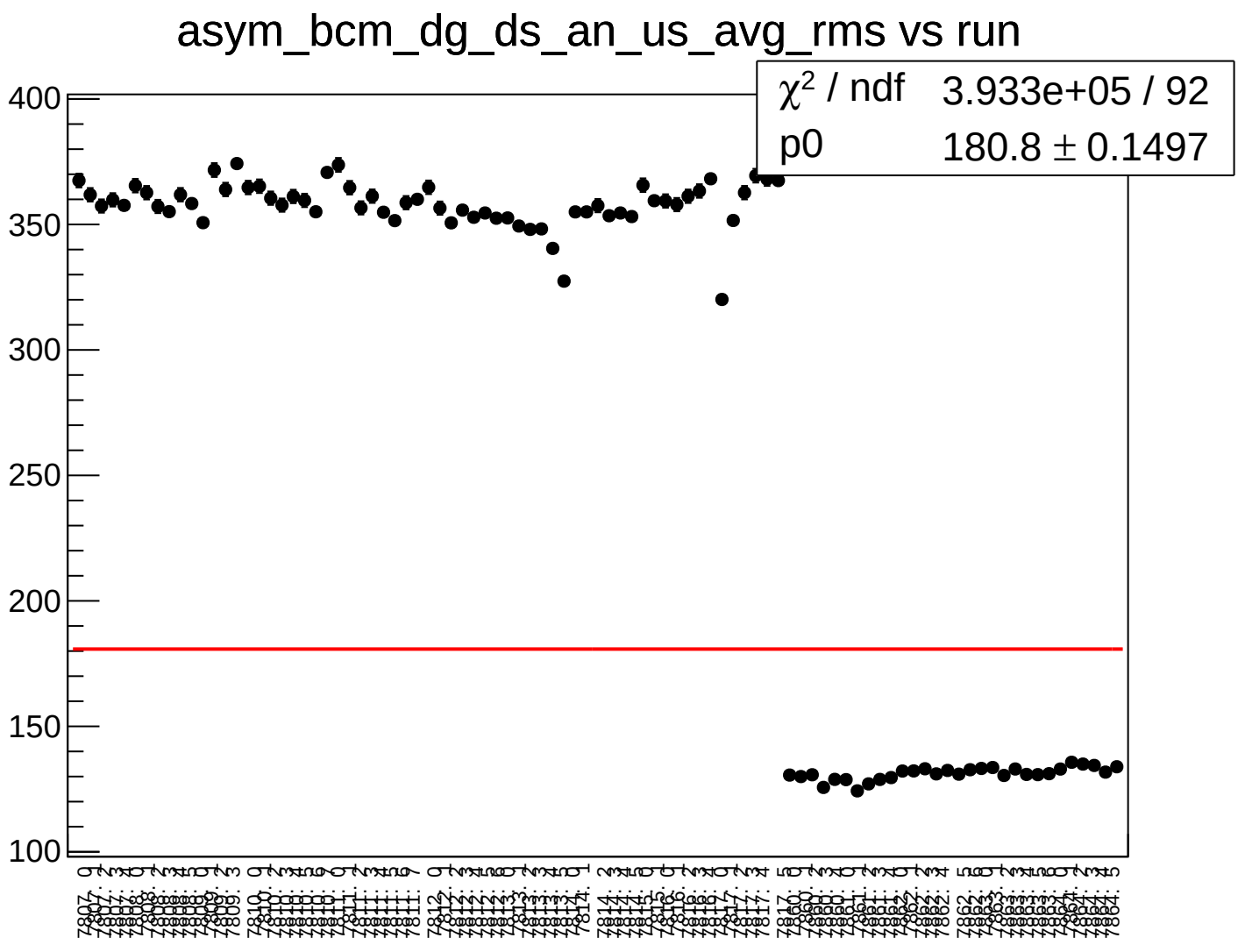

asym_bcm_dg_us_an_us_dd_mean vs run
χ² / ndf 65.14 / 92
p0 −8.623 ± 22.81
pull
Entries 93
Mean 307.4
Std Dev 0

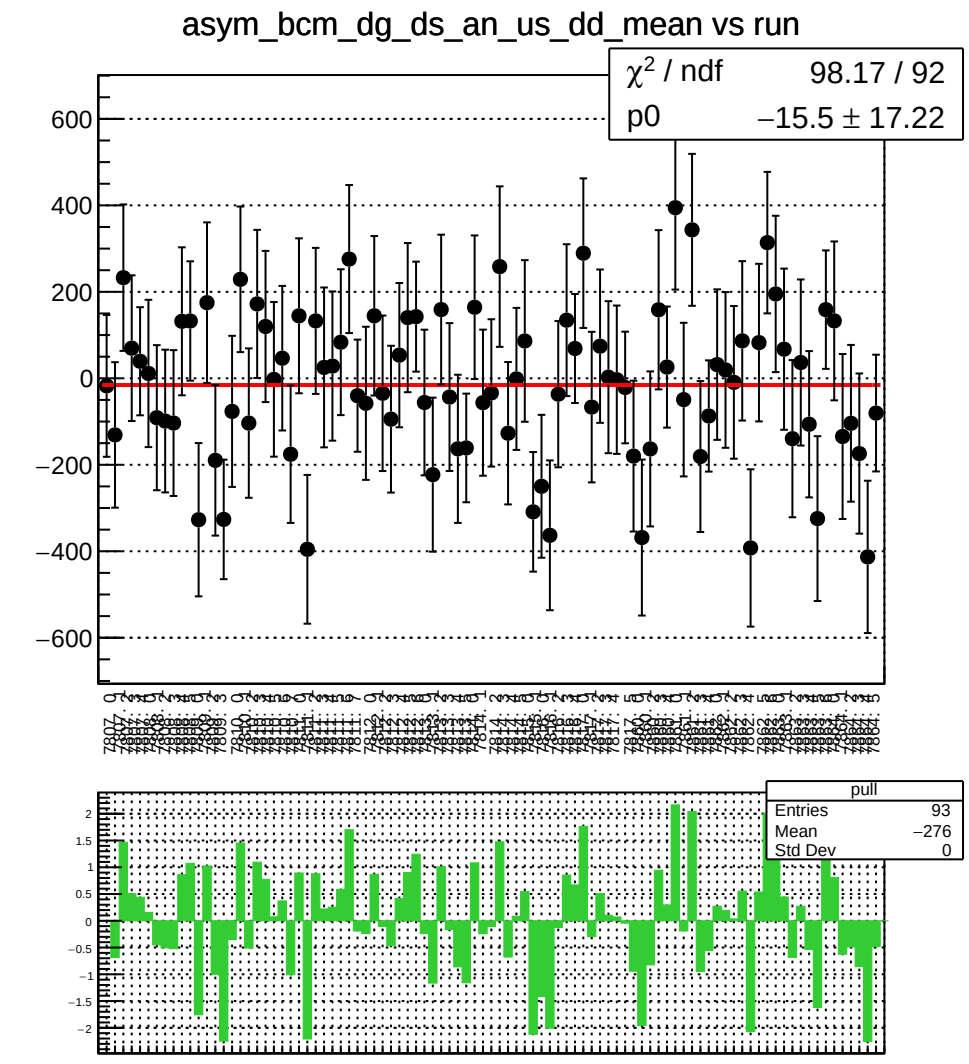

pull1D
Entries 93
Mean −0.01557
Std Dev 0.8367

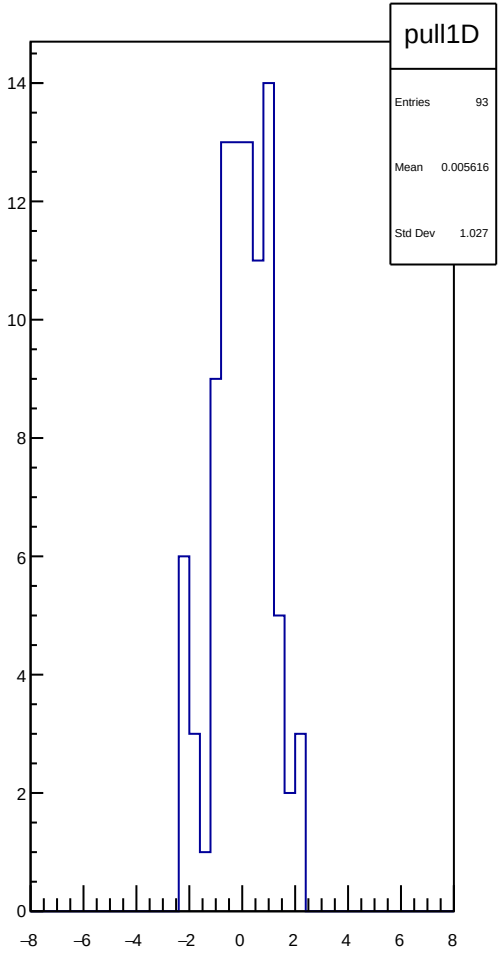

asym_bcm_dg_us_an_us_dd_rms vs run
χ² / ndf 1053 / 92
p0 21.94 ± 0.01613
23.5
23
22.5
22
21.5
21
20.5

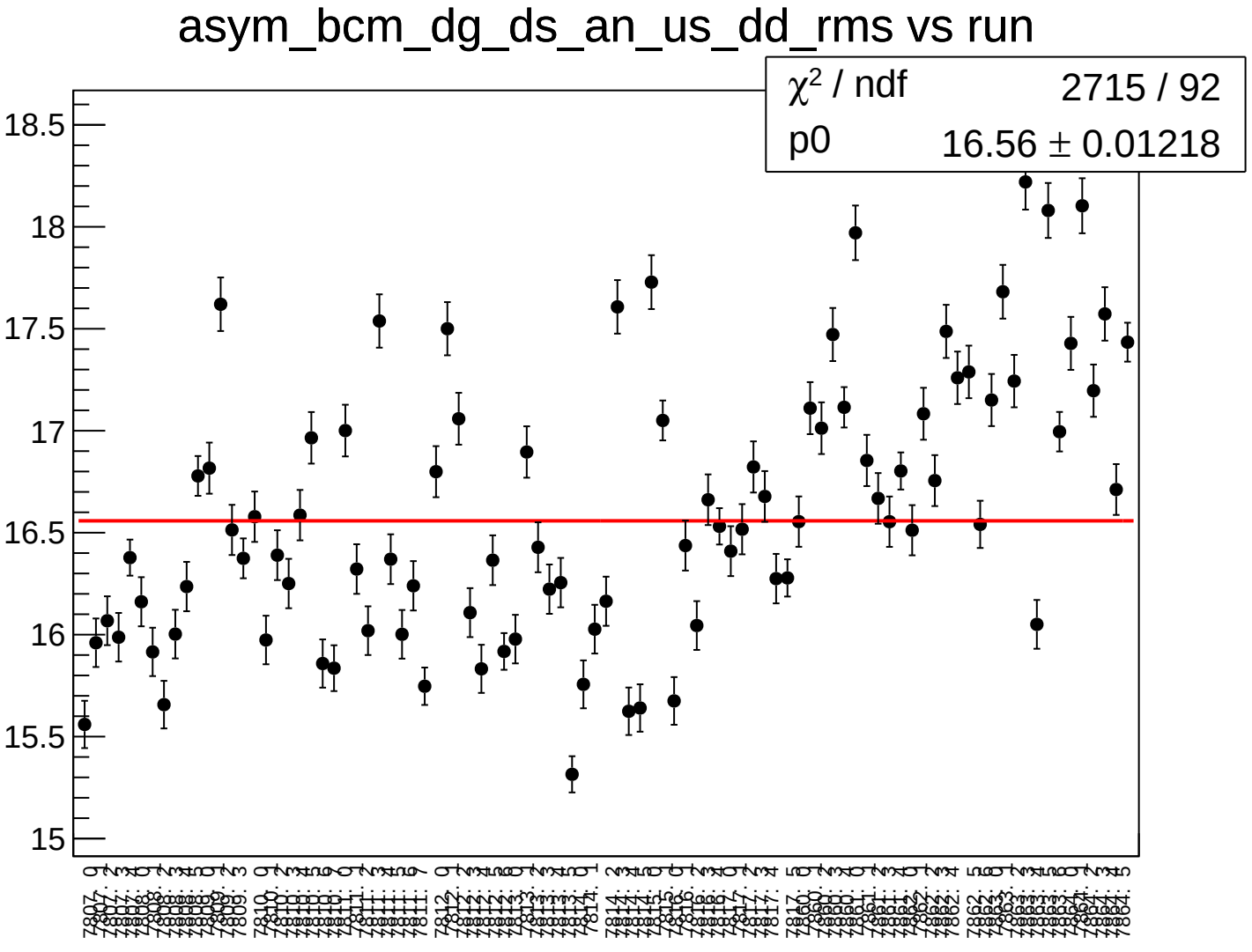

asym_bcm_dg_ds_an_us_avg_mean vs run
χ² / ndf 24.17 / 92
p0 458.6 ± 211.7
pull
Entries 93
Mean 42.84
Std Dev 0

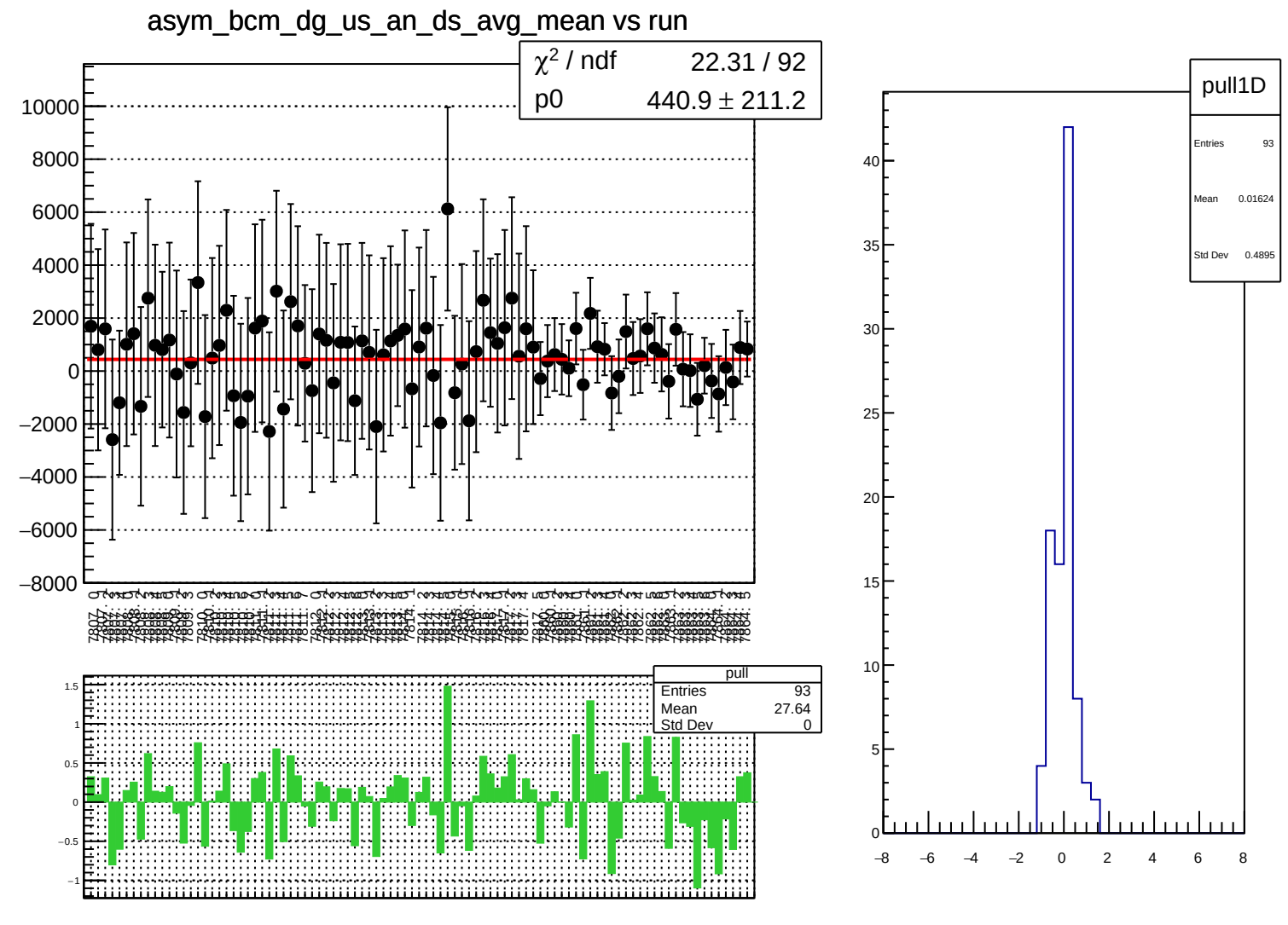

pull1D
Entries 93
Mean 0.01544
Std Dev 0.5095

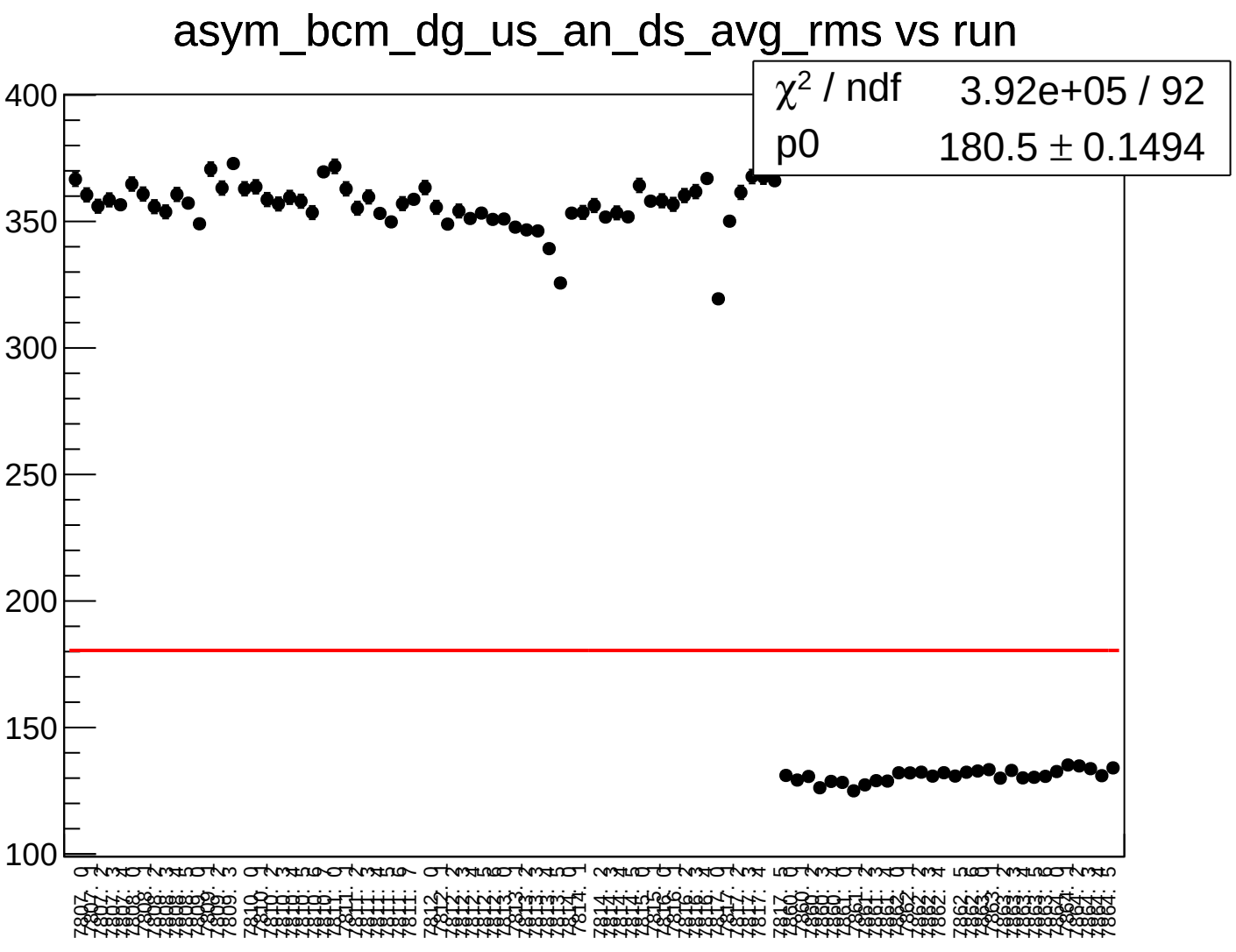

asym_bcm_dg_ds_an_us_avg_rms vs run
χ² / ndf 3.933e+05 / 92
p0 180.8 ± 0.1497
400
350
300
250
200
150
100

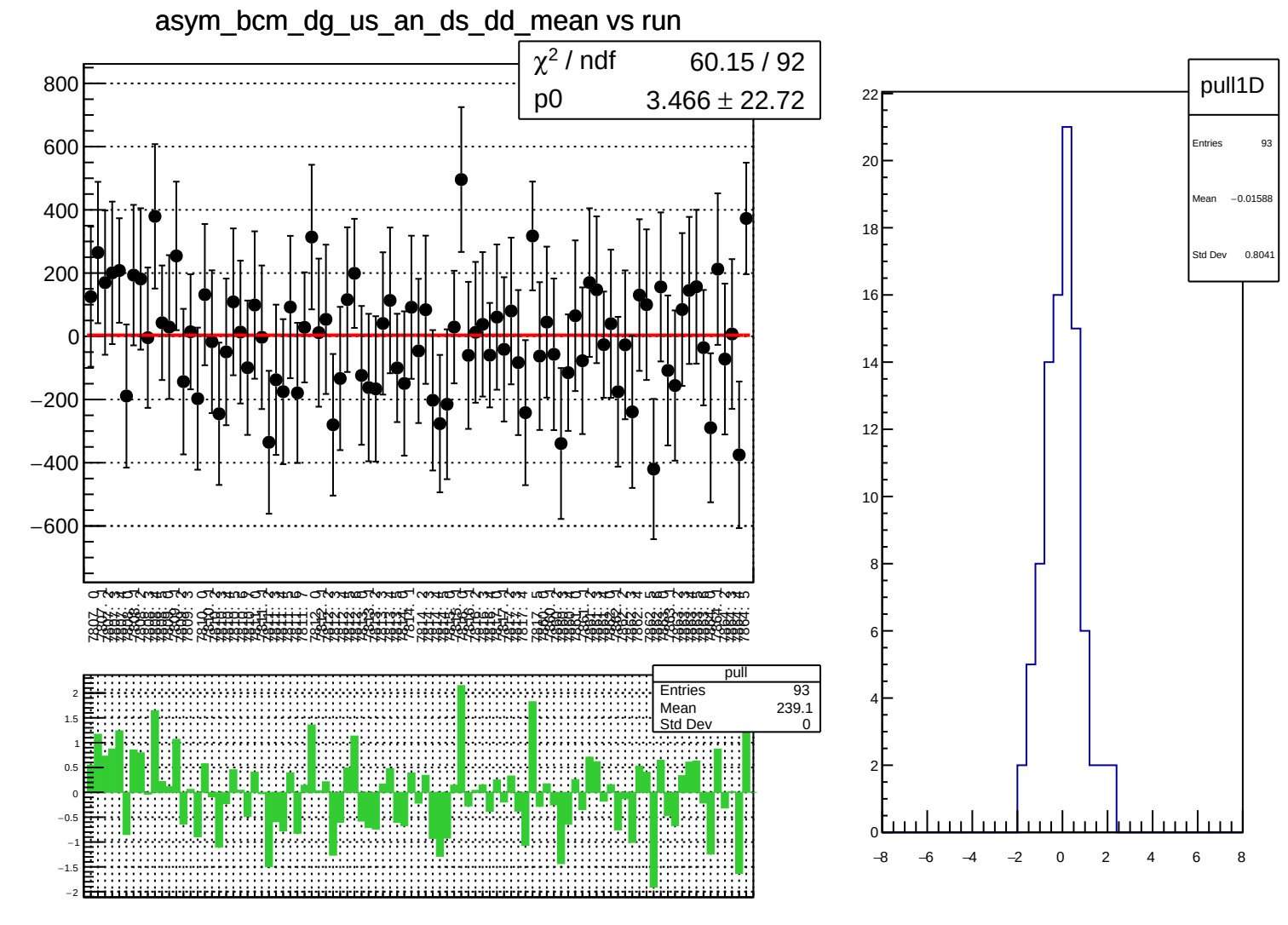

asym_bcm_dg_ds_an_us_dd_mean vs run
χ² / ndf 98.17 / 92
p0 −15.5 ± 17.22
pull
Entries 93
Mean −276
Std Dev 0

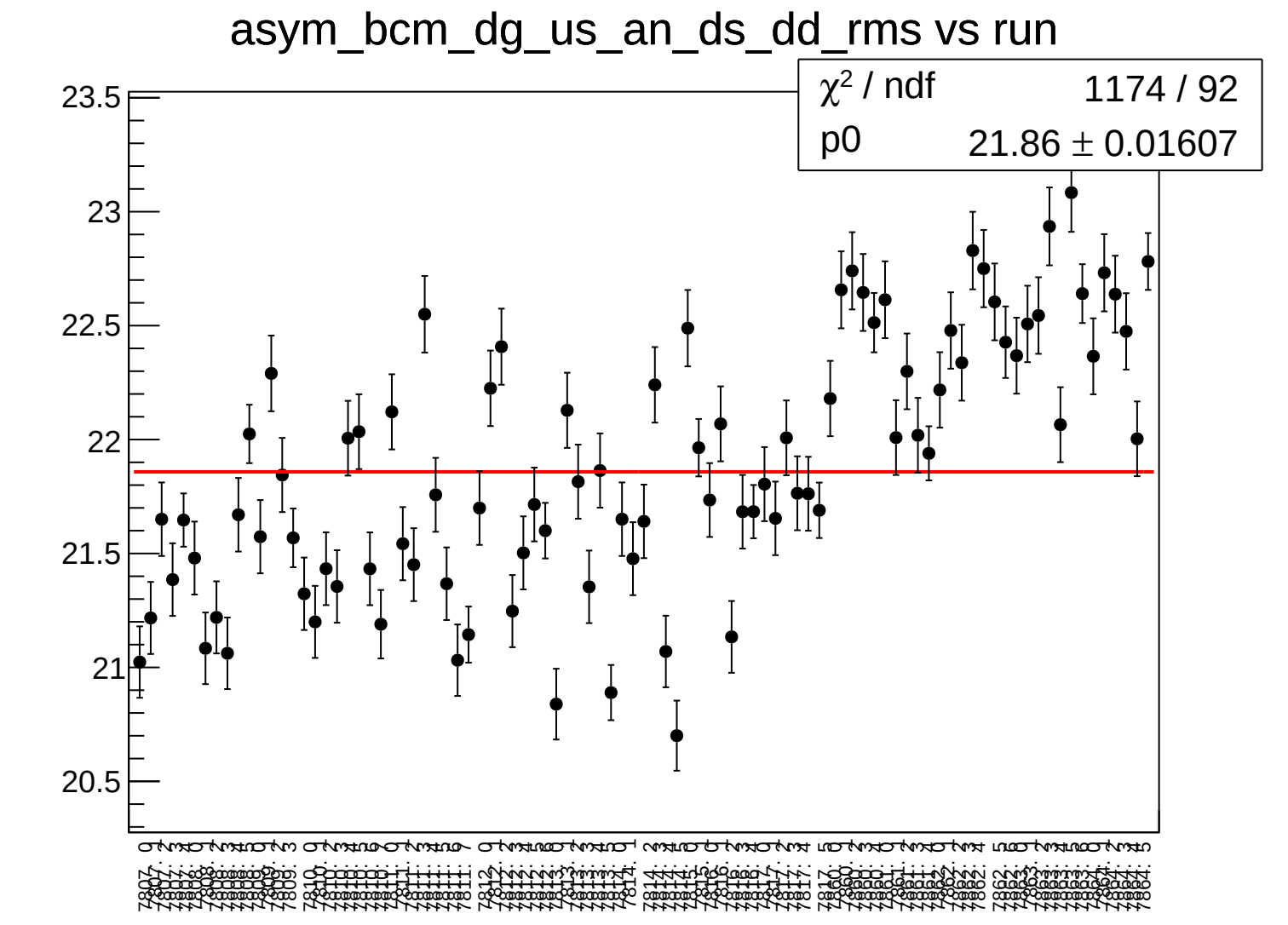

pull1D
Entries 93
Mean 0.005616
Std Dev 1.027

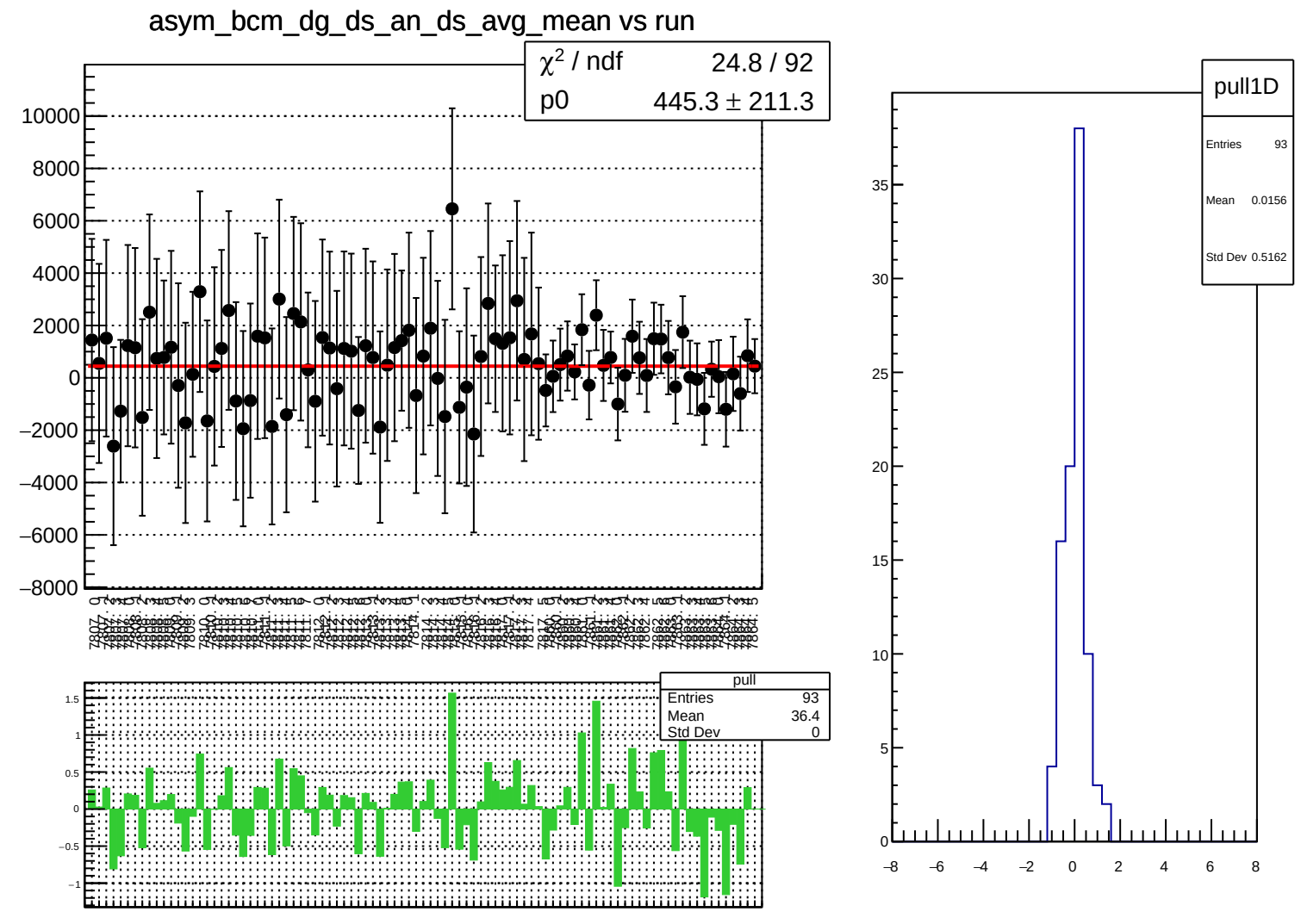

asym_bcm_dg_ds_an_us_dd_rms vs run
χ² / ndf 2715 / 92
p0 16.56 ± 0.01218
18.5
18
17.5
17
16.5
16
15.5
15

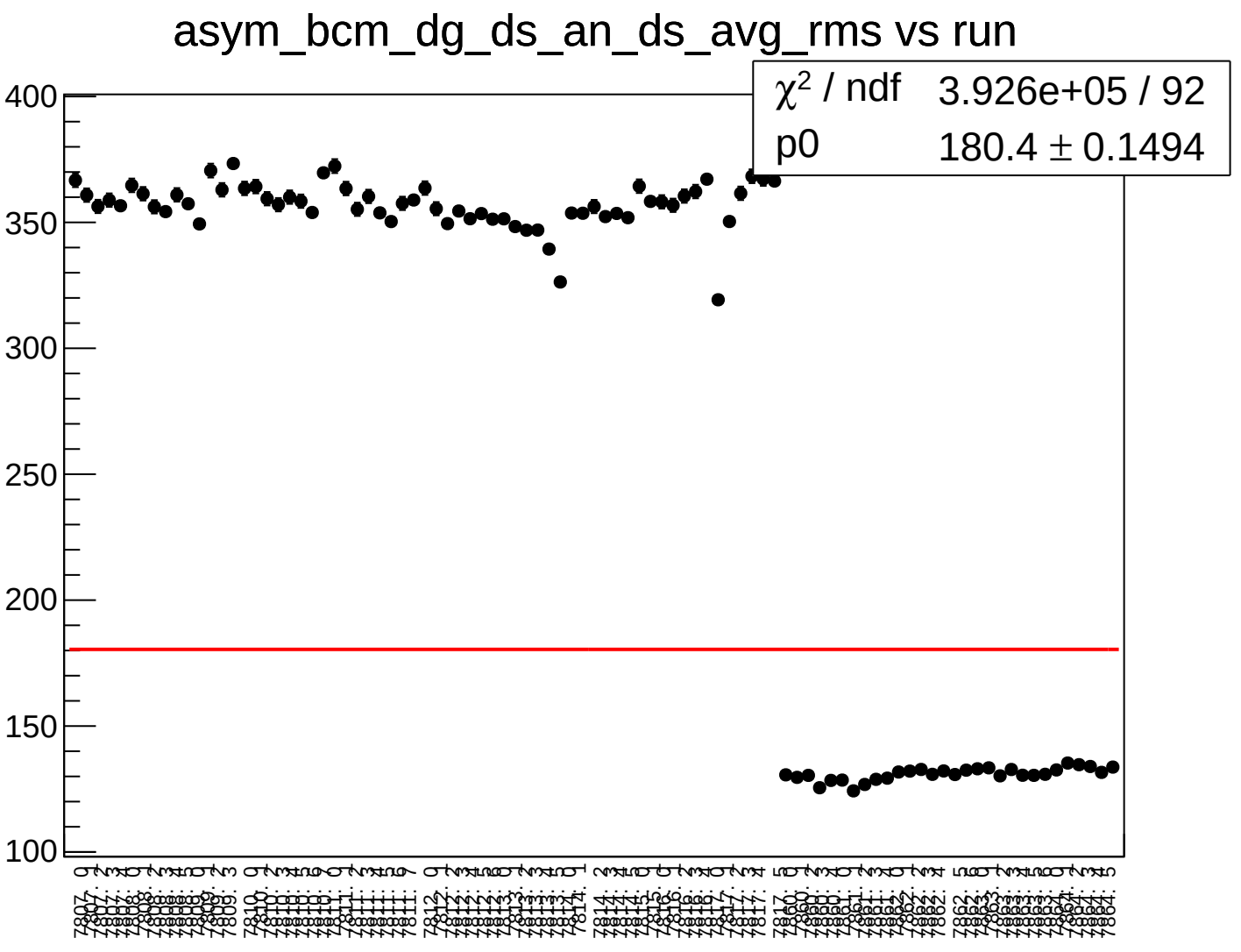

asym_bcm_dg_us_an_ds_avg_mean vs run
χ² / ndf 22.31 / 92
p0 440.9 ± 211.2
pull
Entries 93
Mean 27.64
Std Dev 0
pull1D
Entries 93
Mean 0.01624
Std Dev 0.4895

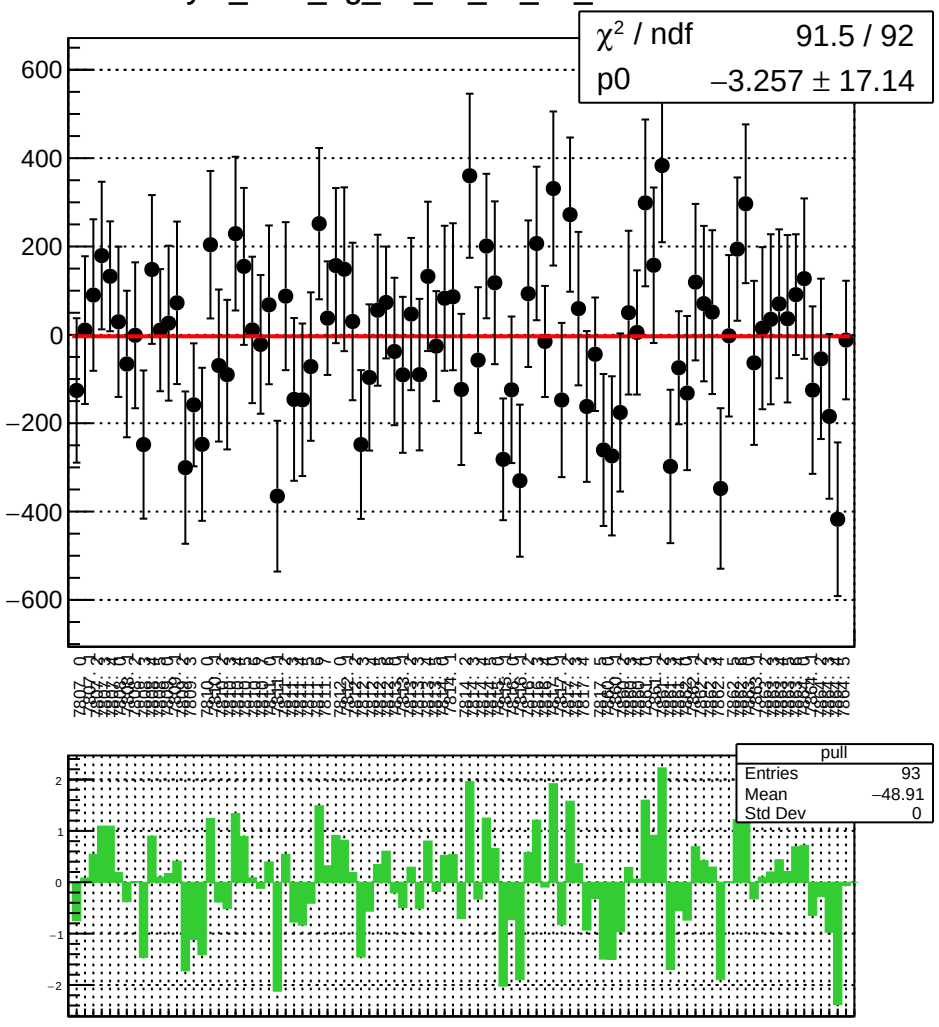

asym_bcm_dg_us_an_ds_avg_rms vs run
χ² / ndf 3.92e+05 / 92
p0 180.5 ± 0.1494
400
350
300
250
200
150
100

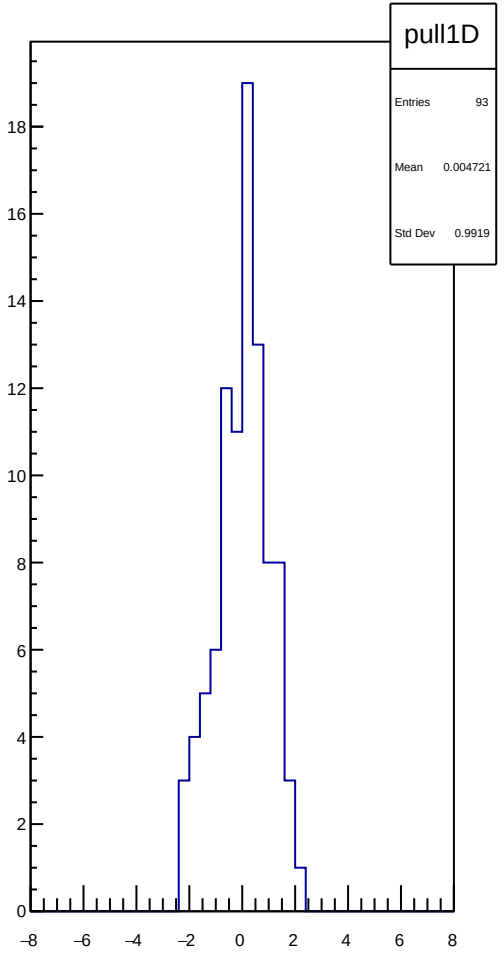

asym_bcm_dg_us_an_ds_dd_mean vs run
χ² / ndf 60.15 / 92
p0 3.466 ± 22.72
pull
Entries 93
Mean 239.1
Std Dev 0
pull1D
Entries 93
Mean −0.01588
Std Dev 0.8041

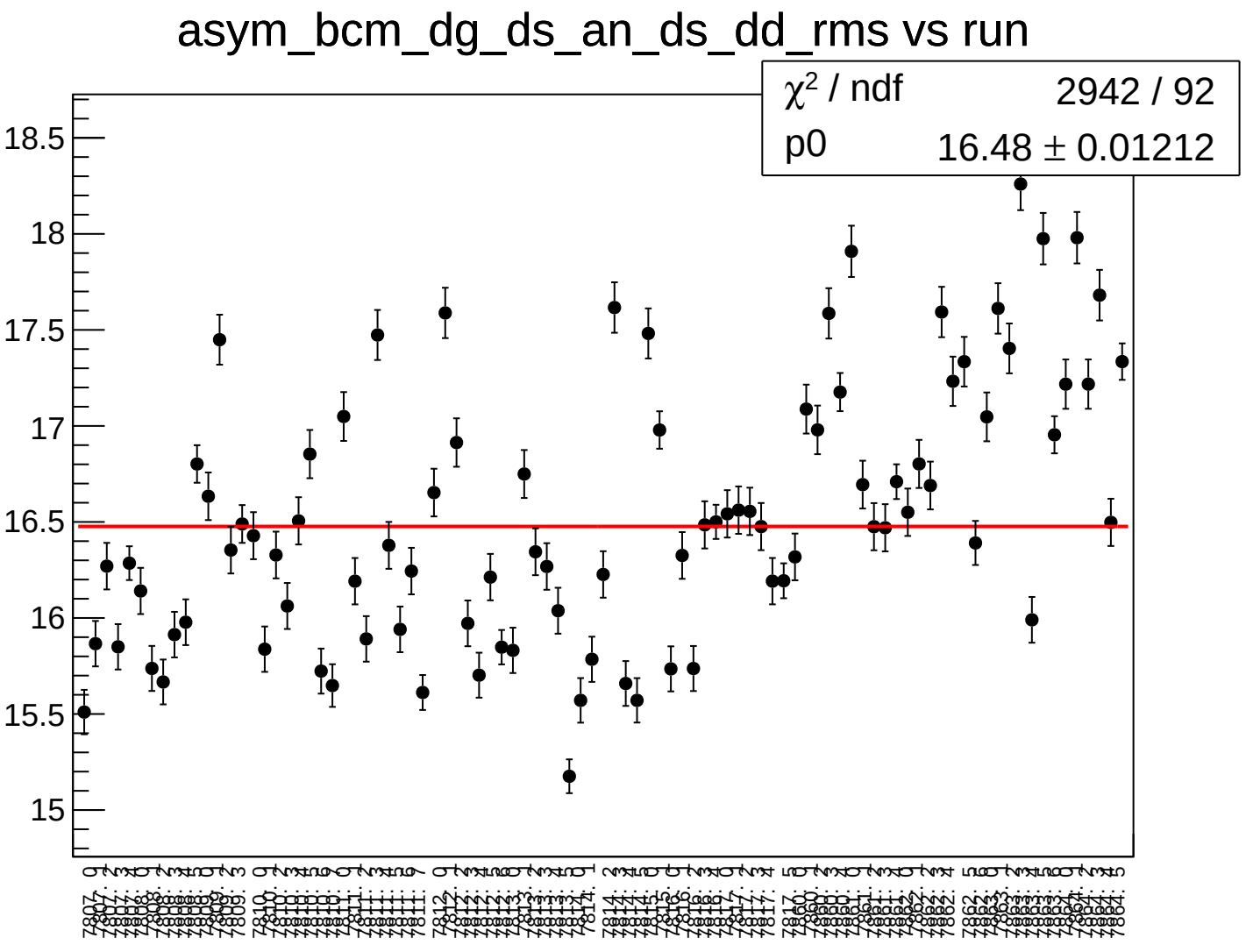

asym_bcm_dg_us_an_ds_dd_rms vs run
χ² / ndf 1174 / 92
p0 21.86 ± 0.01607
23.5
23
22.5
22
21.5
21
20.5

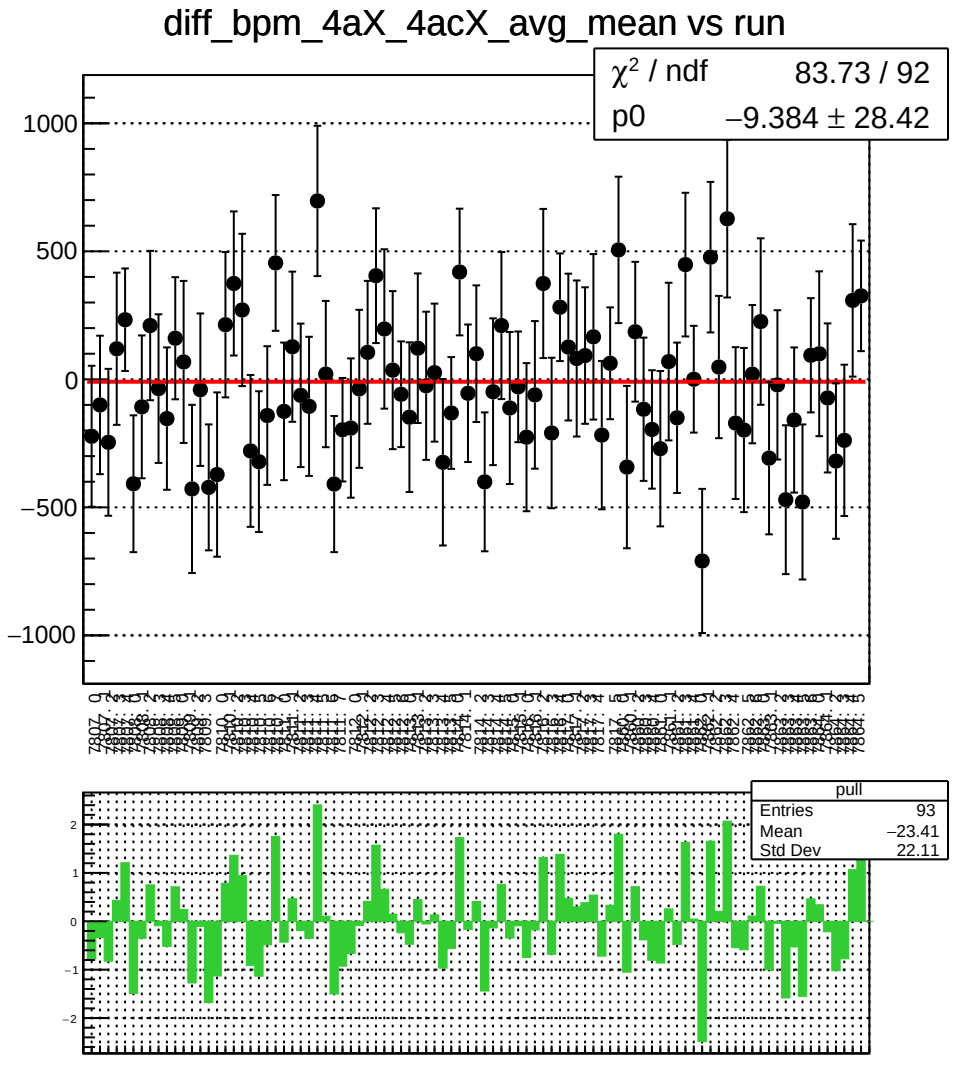

asym_bcm_dg_ds_an_ds_avg_mean vs run
χ² / ndf 24.8 / 92
p0 445.3 ± 211.3
pull
Entries 93
Mean 36.4
Std Dev 0
pull1D
Entries 93
Mean 0.0156
Std Dev 0.5162

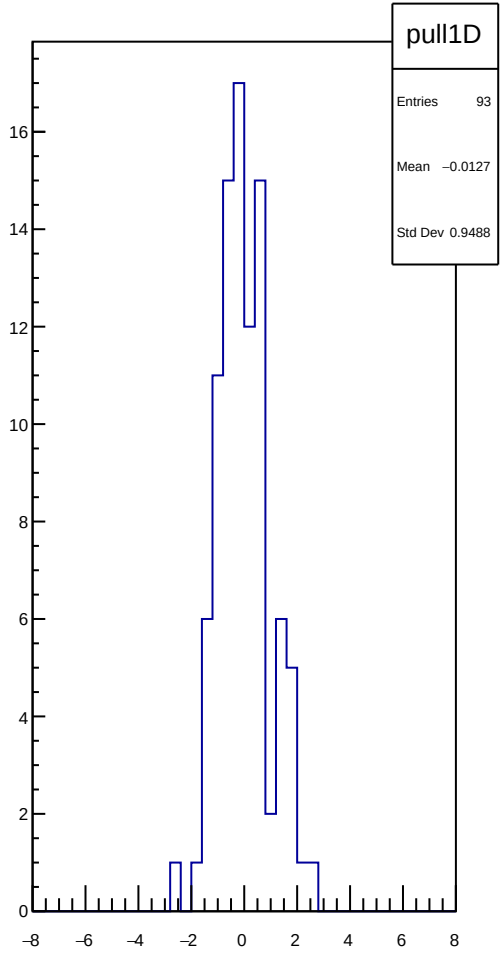

asym_bcm_dg_ds_an_ds_avg_rms vs run
χ² / ndf 3.926e+05 / 92
p0 180.4 ± 0.1494
400
350
300
250
200
150
100

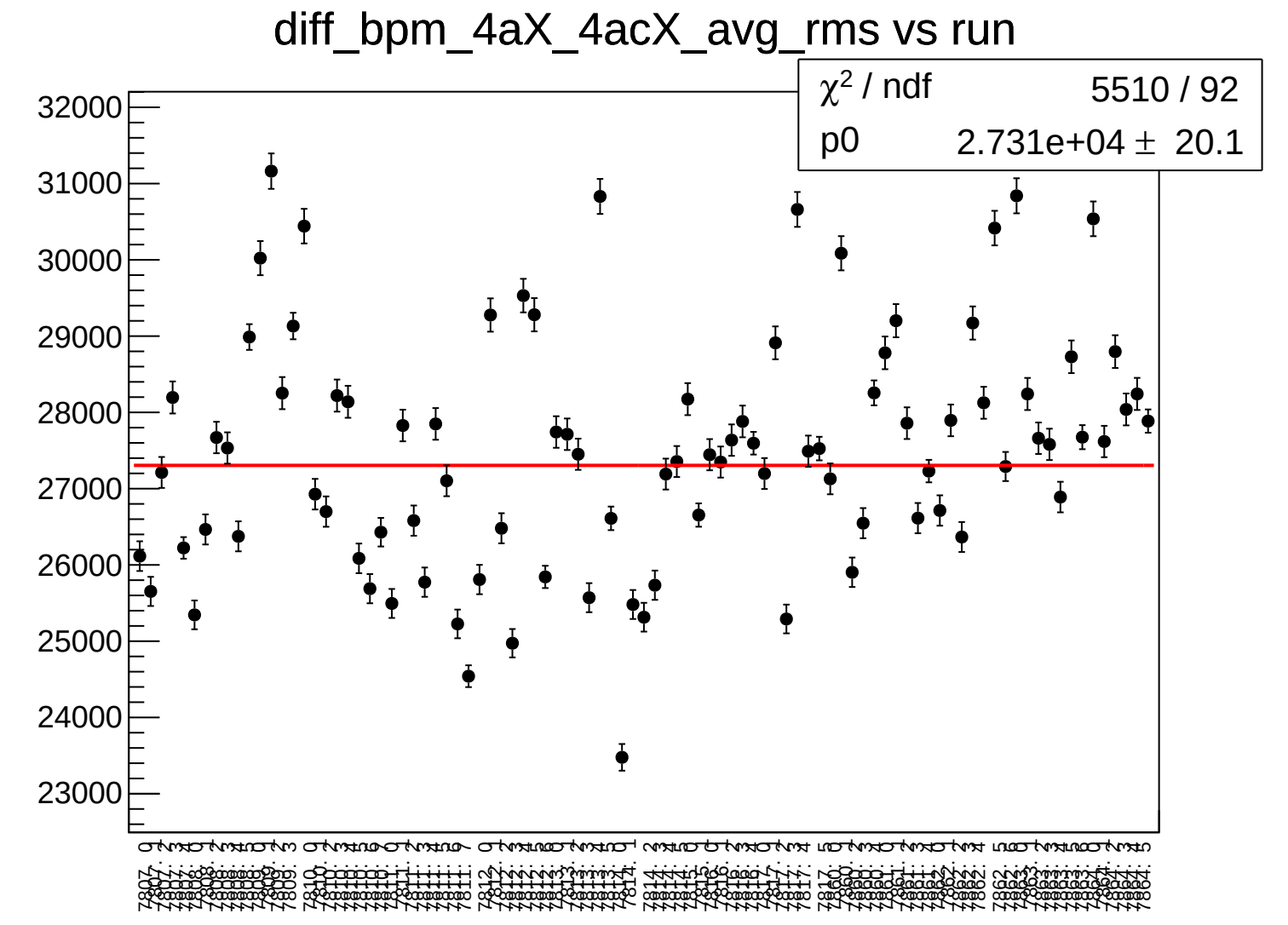

asym_bcm_dg_ds_an_ds_dd_mean vs run
χ² / ndf 91.5 / 92
p0 −3.257 ± 17.14
600
400
200
0
−200
−400
−600
pull
Entries 93
Mean −48.91
Std Dev 0
2
1
0
−1
−2

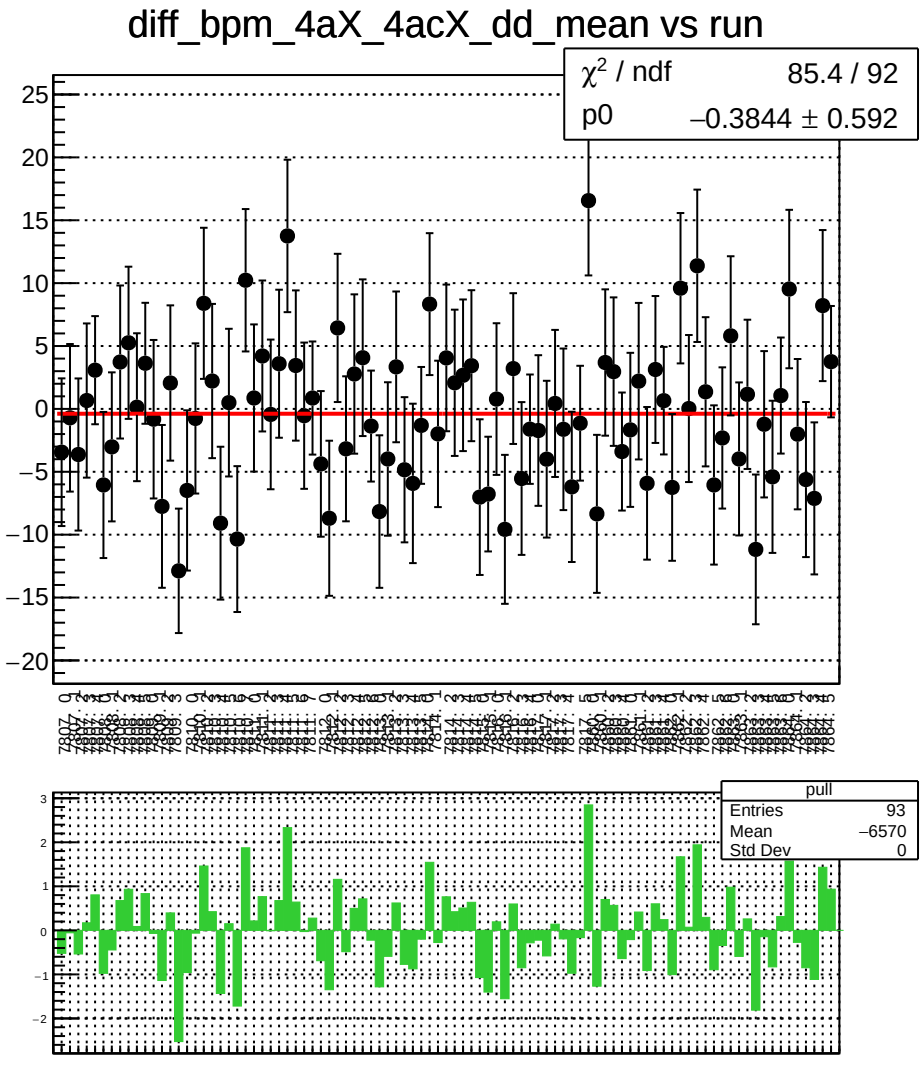

pull1D
Entries 93
Mean 0.004721
Std Dev 0.9919
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

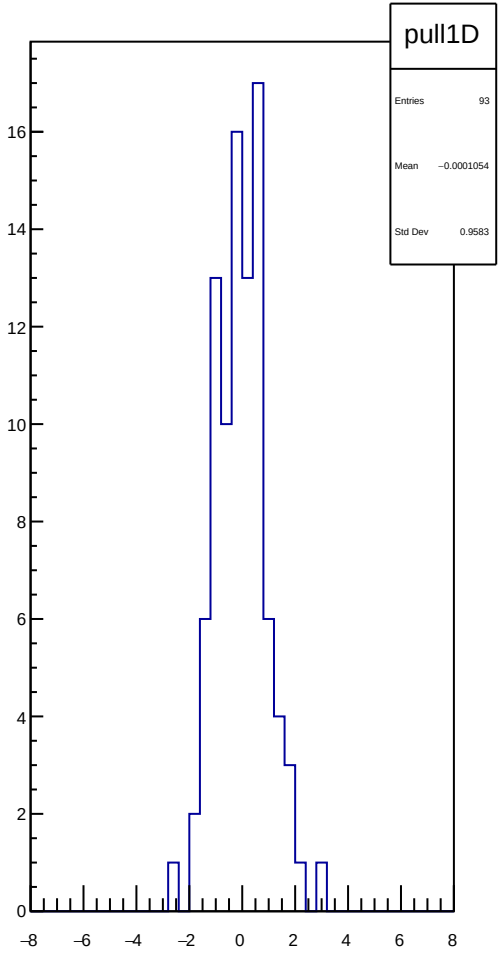

asym_bcm_dg_ds_an_ds_dd_rms vs run
χ² / ndf 2942 / 92
p0 16.48 ± 0.01212
18.5
18
17.5
17
16.5
16
15.5
15

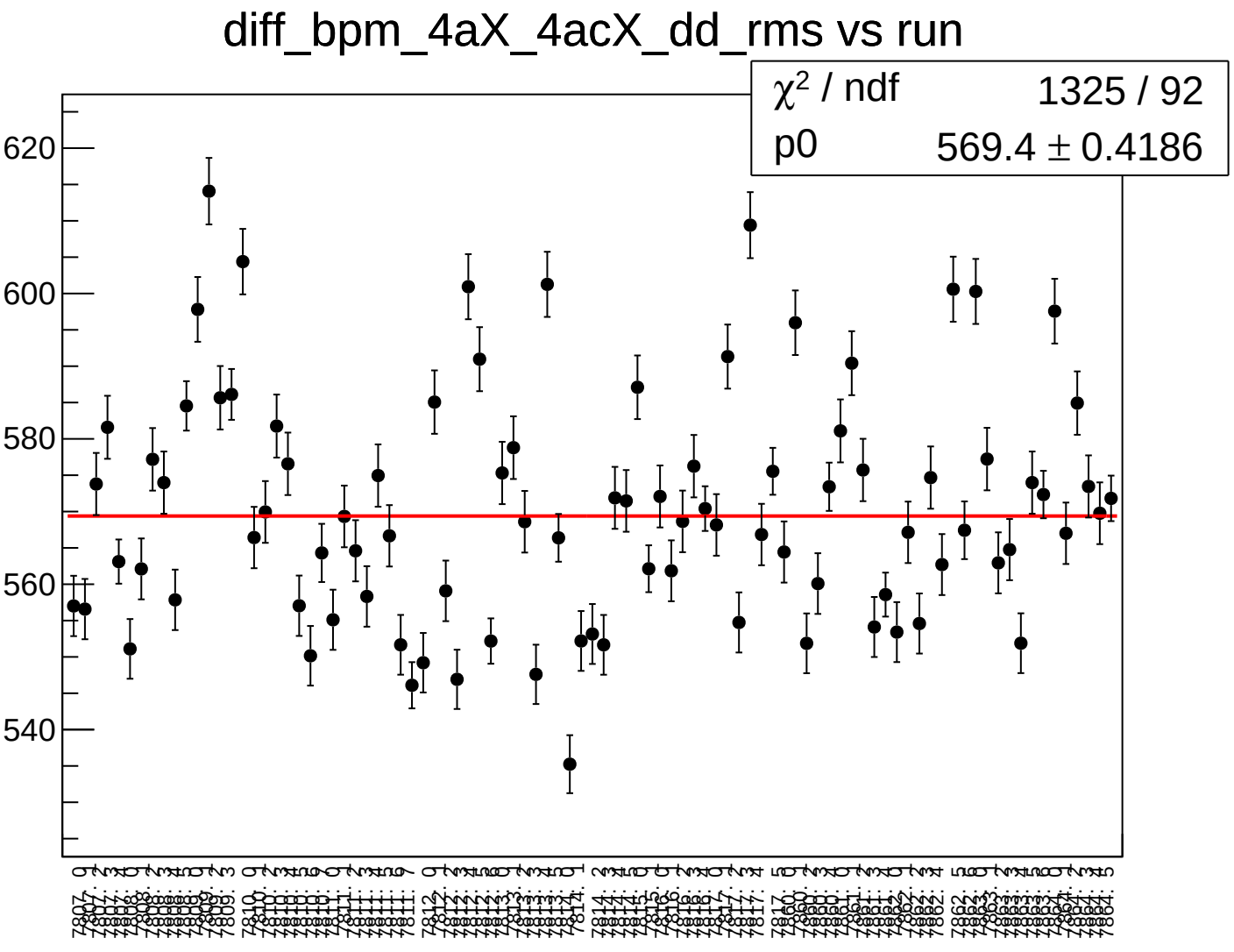

diff_bpm_4aX_4acX_avg_mean vs run
χ² / ndf 83.73 / 92
p0 −9.384 ± 28.42
1000
500
0
−500
−1000
pull
Entries 93
Mean −23.41
Std Dev 22.11
2
1
0
−1
−2

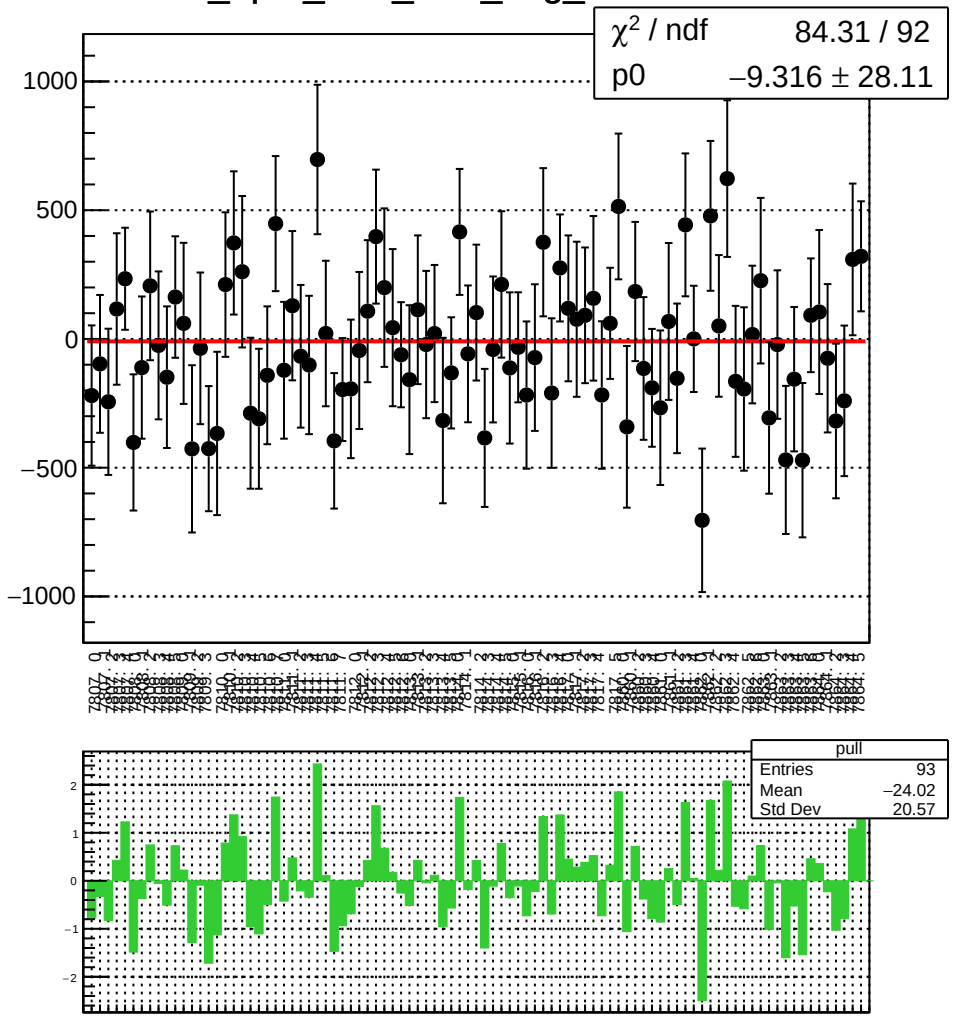

pull1D
Entries 93
Mean −0.0127
Std Dev 0.9488
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

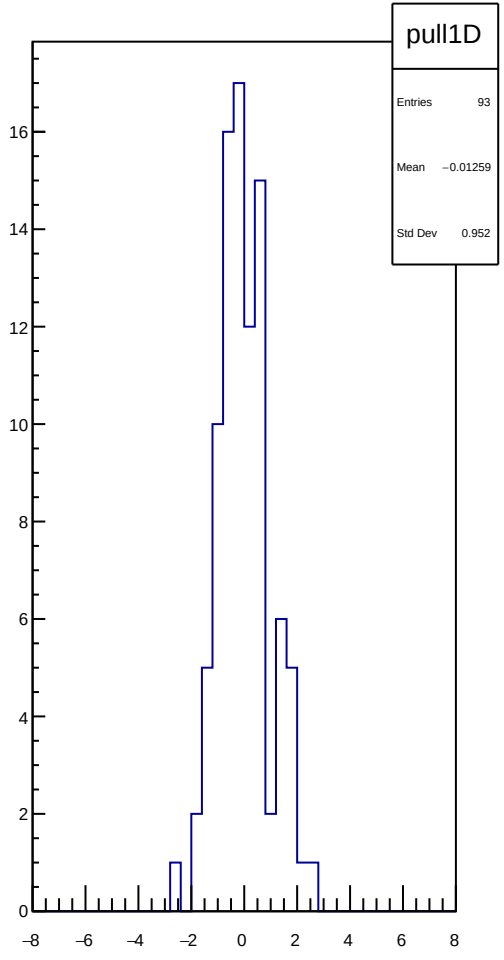

diff_bpm_4aX_4acX_avg_rms vs run
χ² / ndf 5510 / 92
p0 2.731e+04 ± 20.1
32000
31000
30000
29000
28000
27000
26000
25000
24000
23000

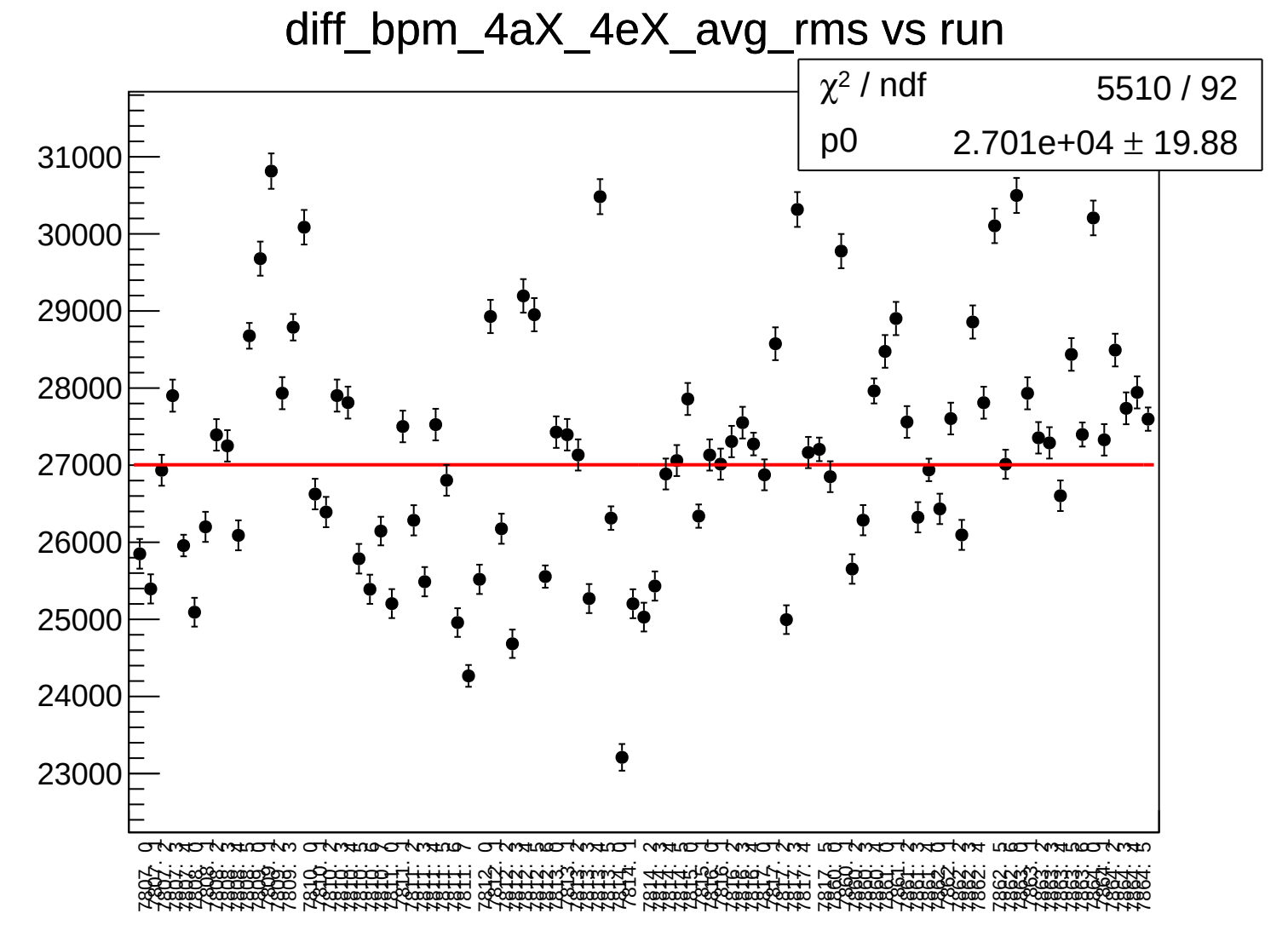

diff_bpm_4aX_4acX_dd_mean vs run
χ² / ndf 85.4 / 92
p0 −0.3844 ± 0.592
pull
Entries 93
Mean −6570
Std Dev 0

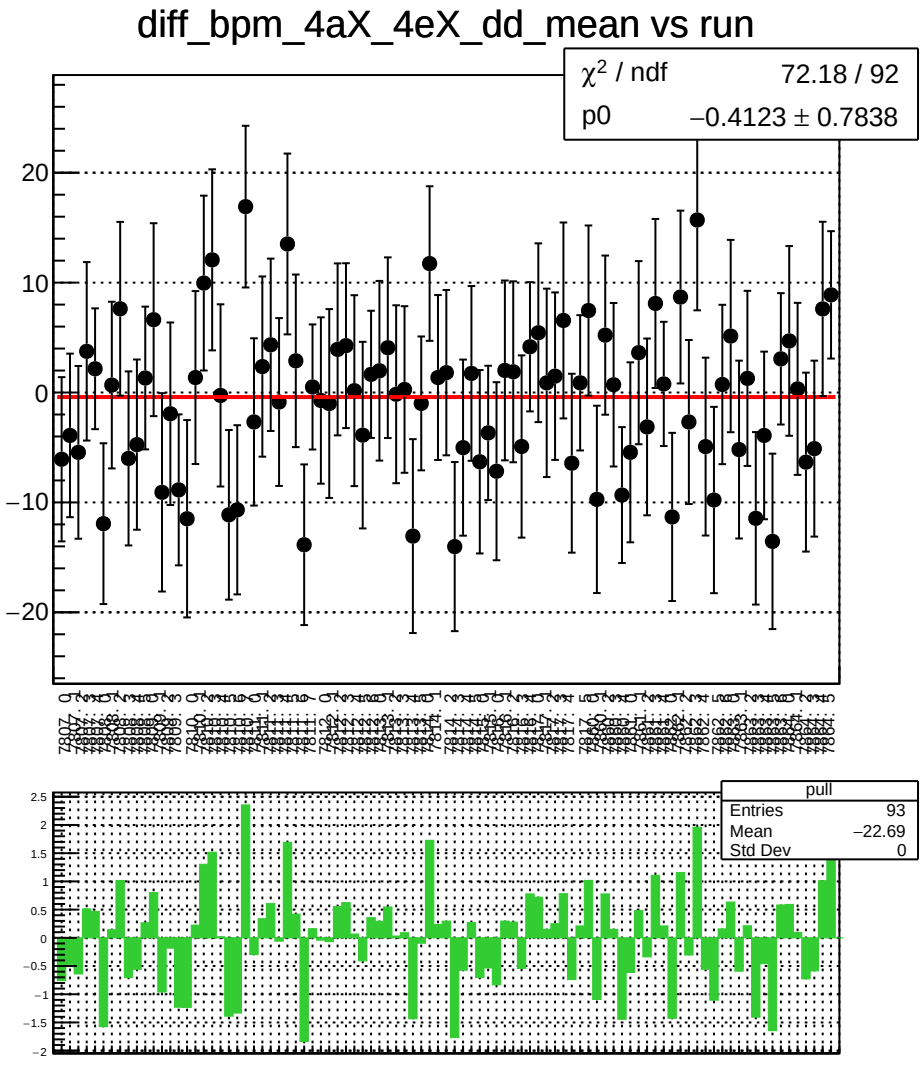

pull1D
Entries 93
Mean −0.0001054
Std Dev 0.9583

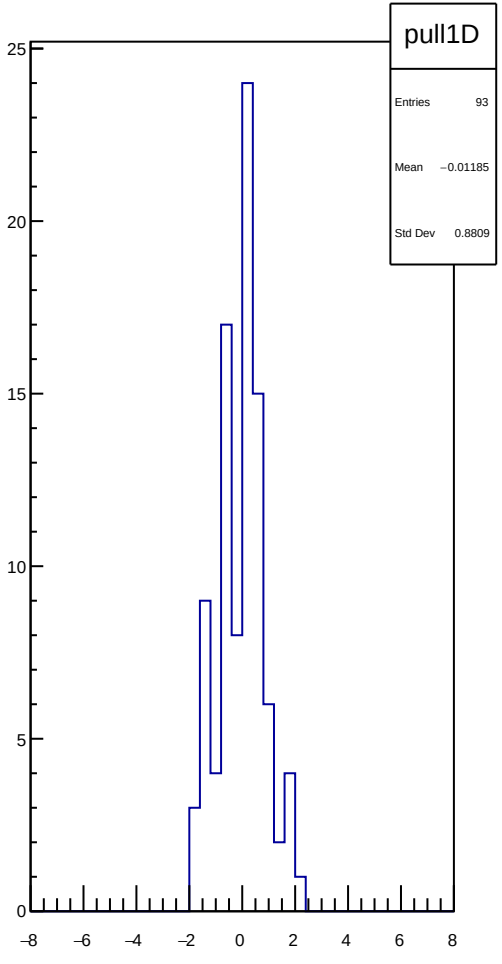

diff_bpm_4aX_4acX_dd_rms vs run
χ² / ndf 1325 / 92
p0 569.4 ± 0.4186
620
600
580
560
540

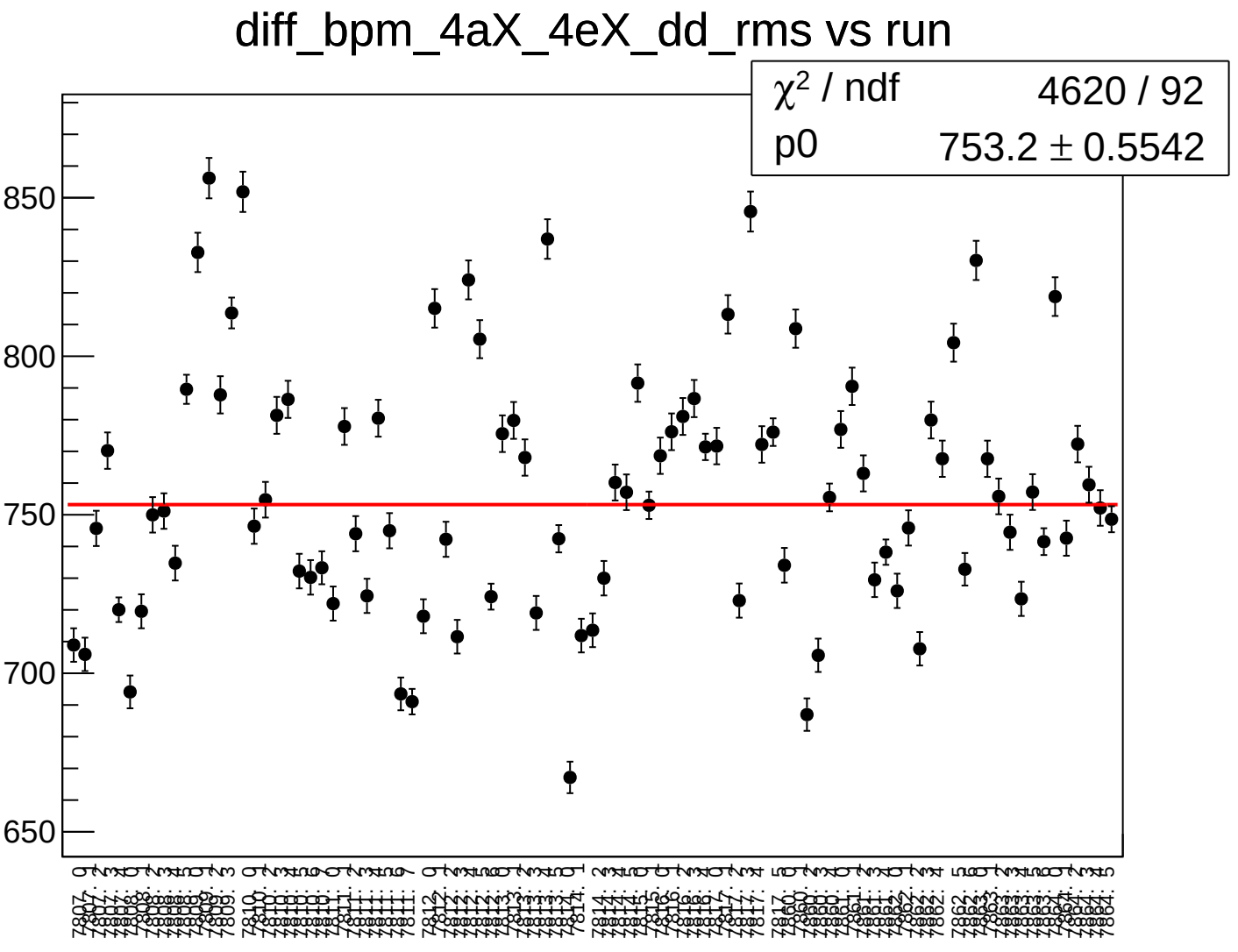

diff_bpm_4aX_4eX_avg_mean vs run
χ² / ndf 84.31 / 92
p0 −9.316 ± 28.11
1000
500
0
−500
−1000
pull
Entries 93
Mean −24.02
Std Dev 20.57
2
1
0
−1
−2

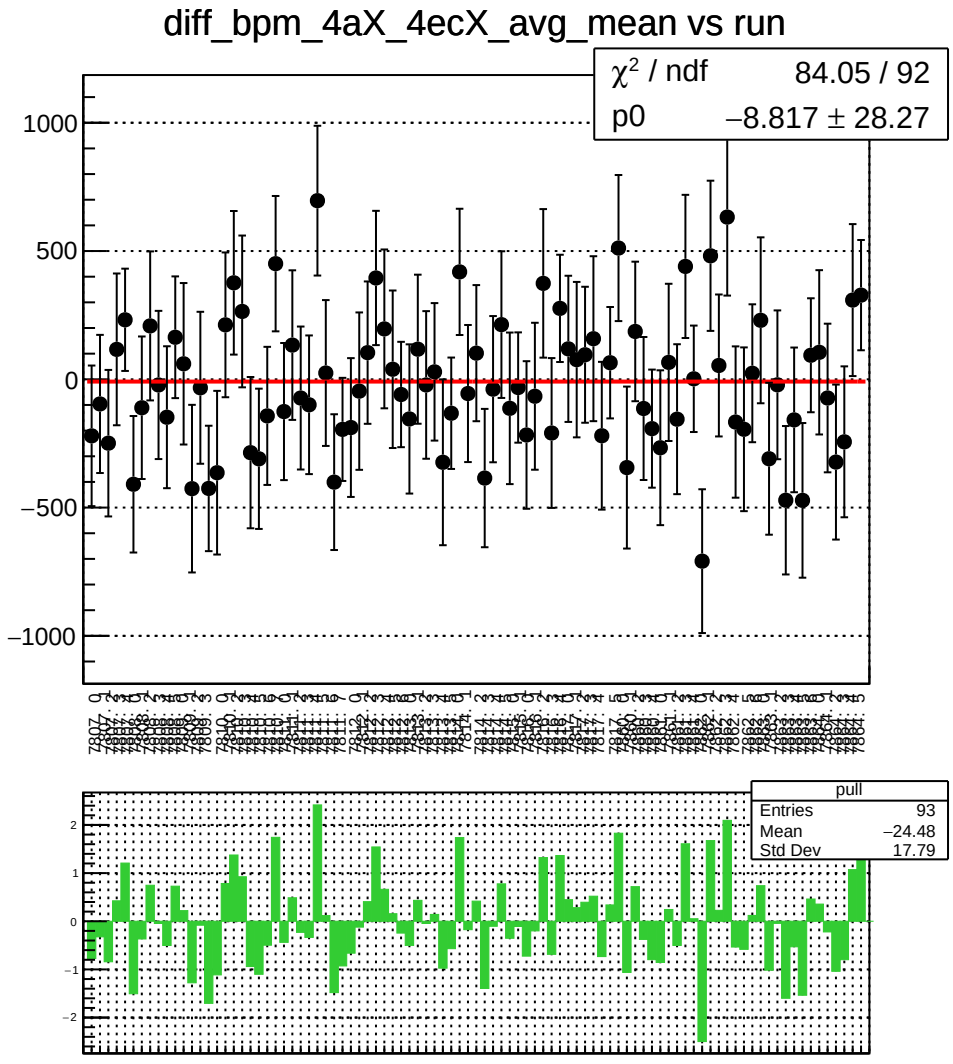

pull1D
Entries 93
Mean −0.01259
Std Dev 0.952
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

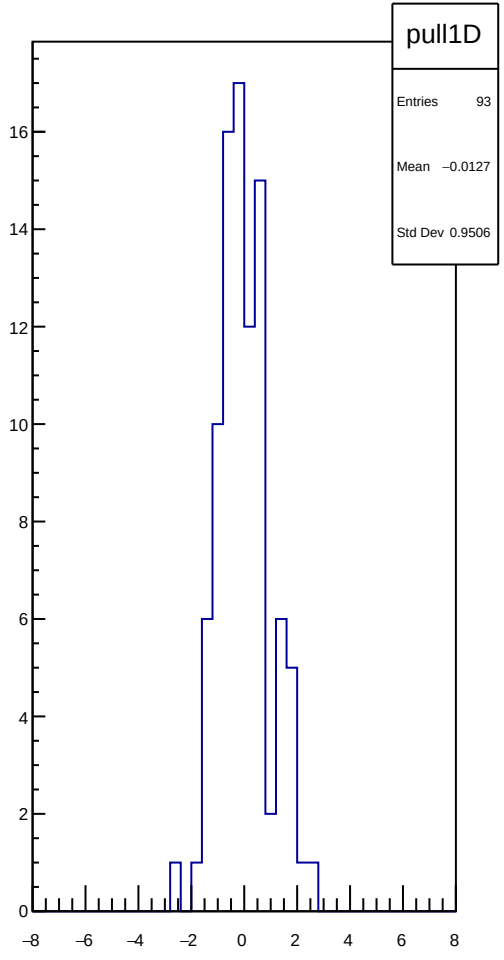

diff_bpm_4aX_4eX_avg_rms vs run
χ² / ndf 5510 / 92
p0 2.701e+04 ± 19.88
31000
30000
29000
28000
27000
26000
25000
24000
23000

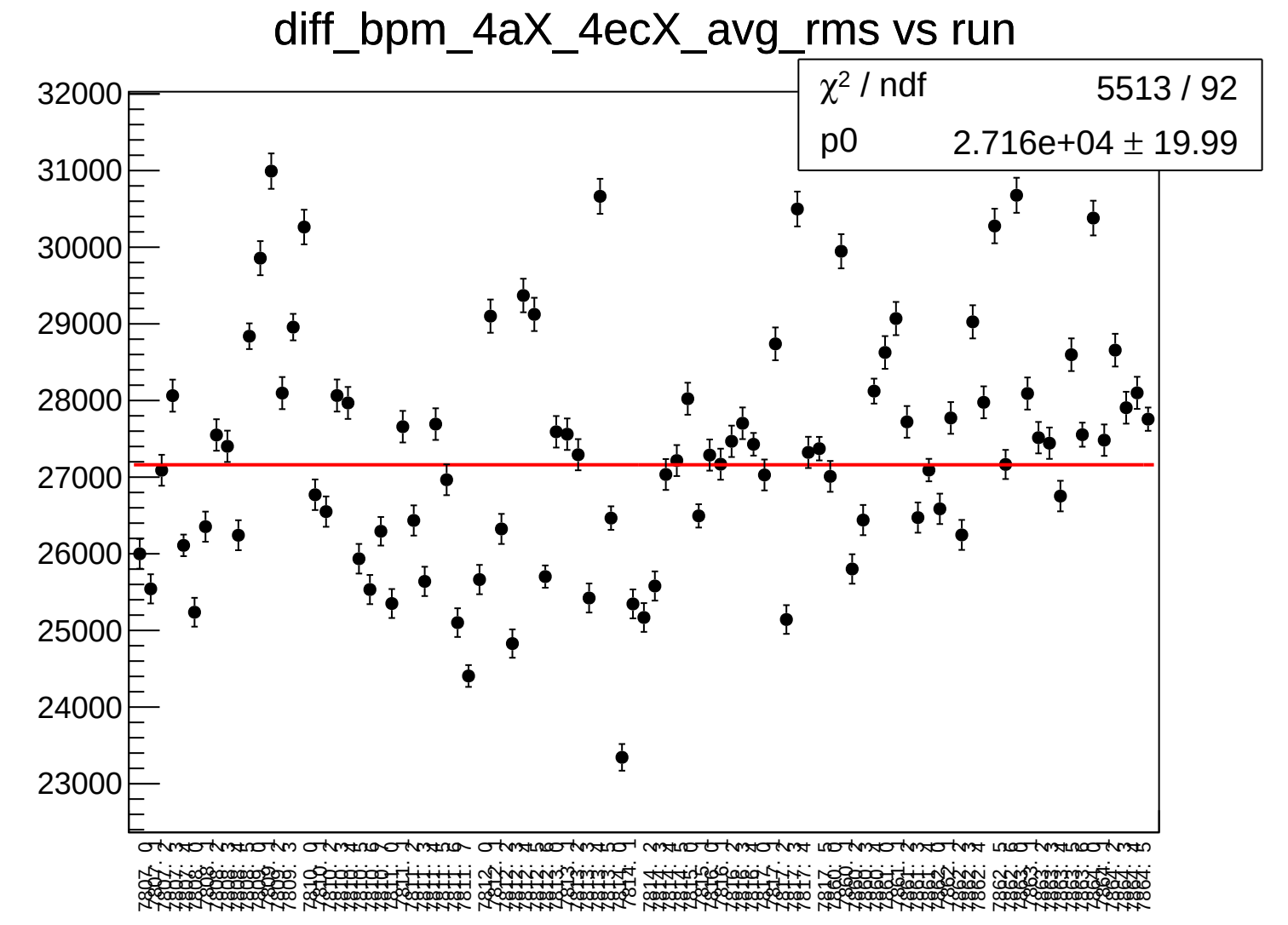

diff_bpm_4aX_4eX_dd_mean vs run
χ² / ndf 72.18 / 92
p0 −0.4123 ± 0.7838
pull
Entries 93
Mean −22.69
Std Dev 0

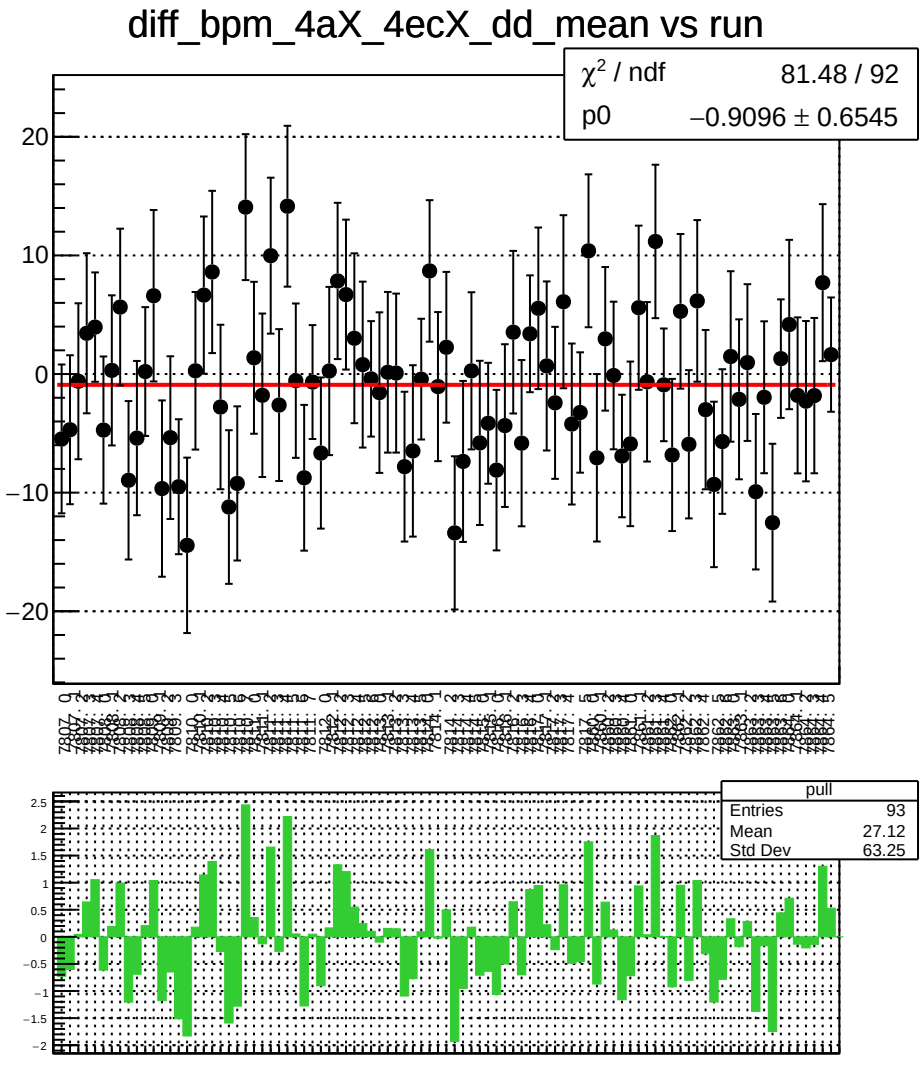

pull1D
Entries 93
Mean −0.01185
Std Dev 0.8809

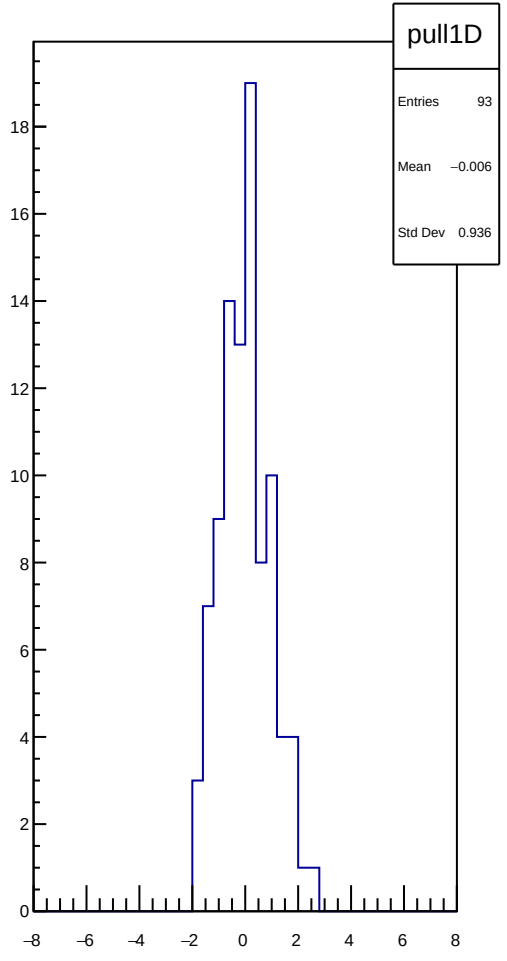

diff_bpm_4aX_4eX_dd_rms vs run
χ² / ndf 4620 / 92
p0 753.2 ± 0.5542
850
800
750
700
650

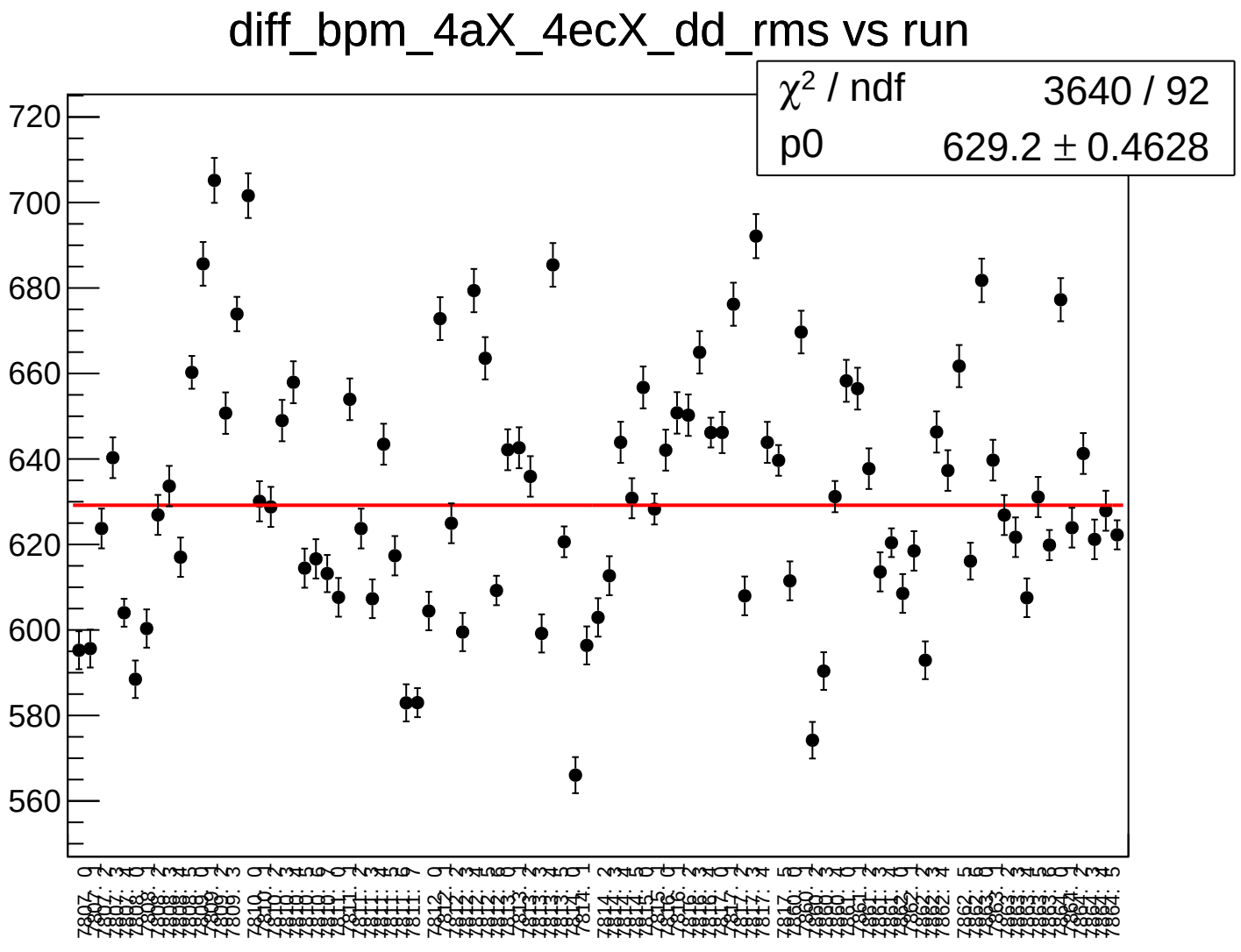

diff_bpm_4aX_4ecX_avg_mean vs run
χ² / ndf 84.05 / 92
p0 −8.817 ± 28.27
1000
500
0
−500
−1000
pull
Entries 93
Mean −24.48
Std Dev 17.79
2
1
0
−1
−2

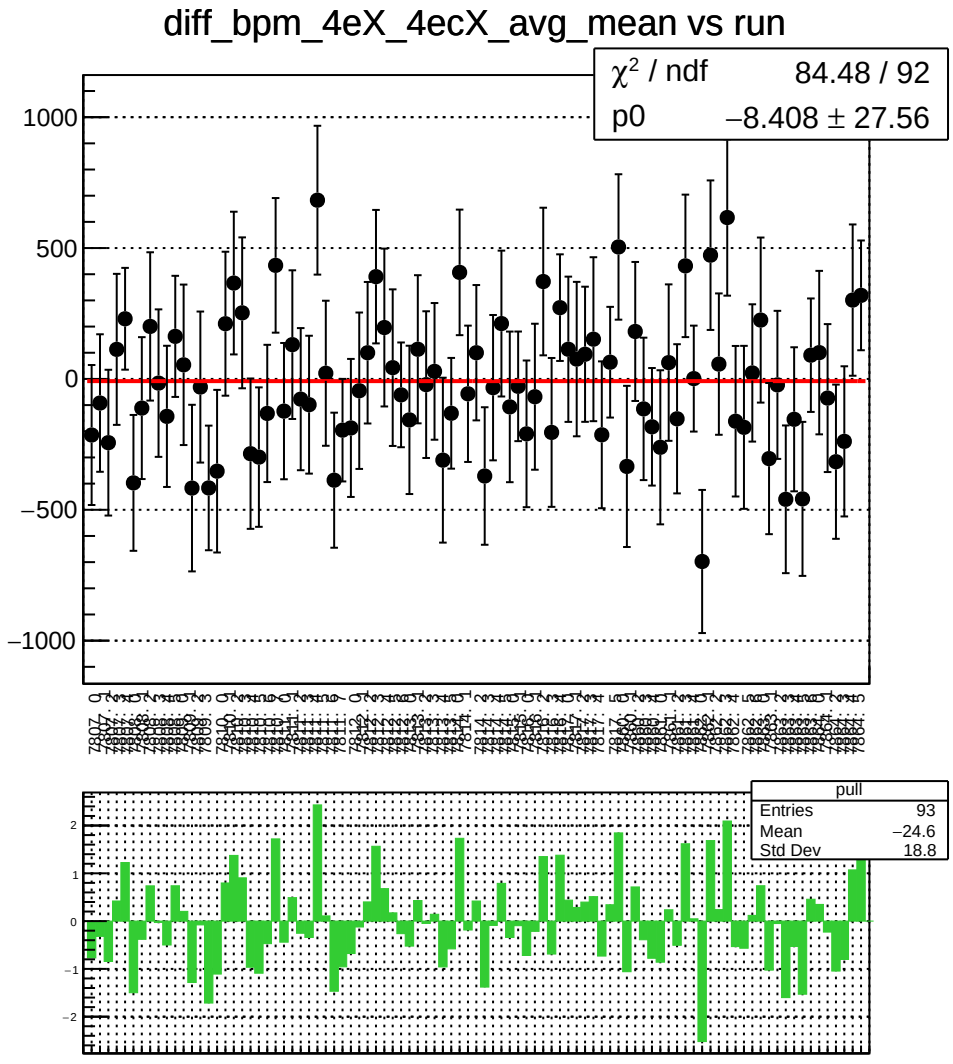

pull1D
Entries 93
Mean −0.0127
Std Dev 0.9506
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

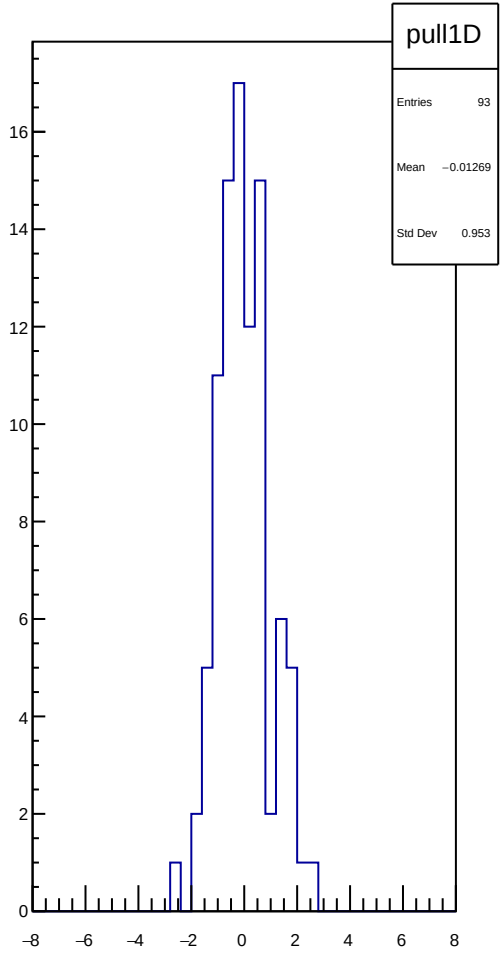

diff_bpm_4aX_4ecX_avg_rms vs run
χ² / ndf 5513 / 92
p0 2.716e+04 ± 19.99
32000
31000
30000
29000
28000
27000
26000
25000
24000
23000

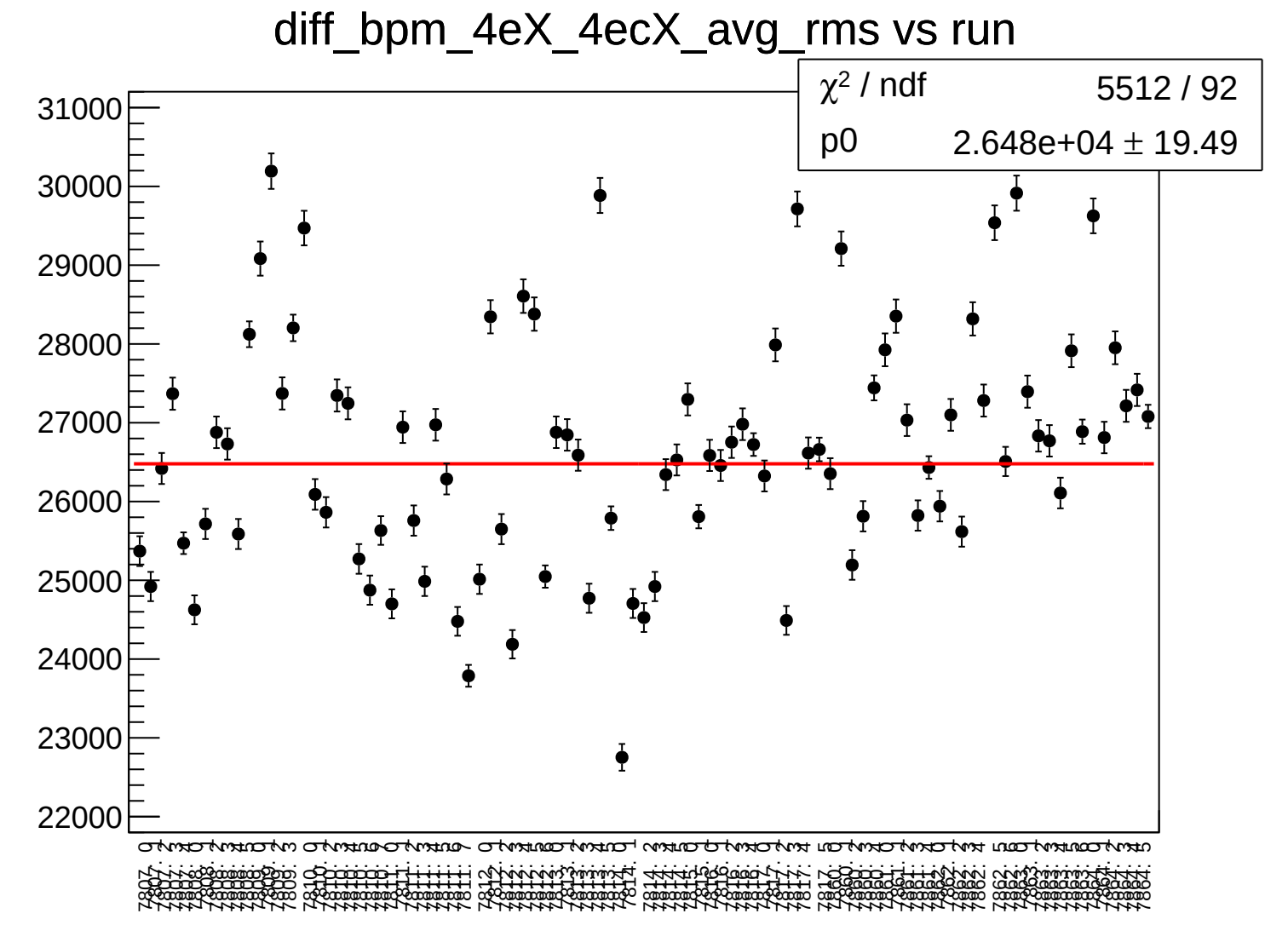

diff_bpm_4aX_4ecX_dd_mean vs run
χ² / ndf 81.48 / 92
p0 −0.9096 ± 0.6545
pull
Entries 93
Mean 27.12
Std Dev 63.25

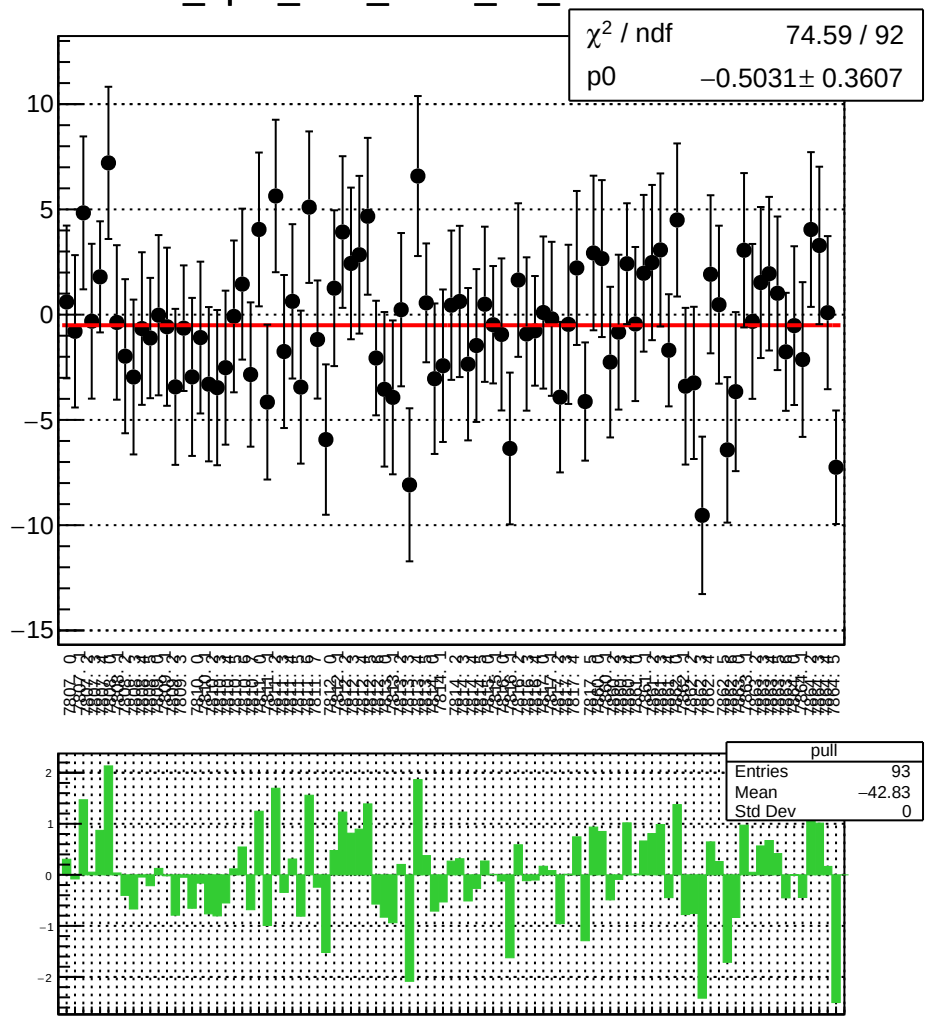

pull1D
Entries 93
Mean −0.006
Std Dev 0.936

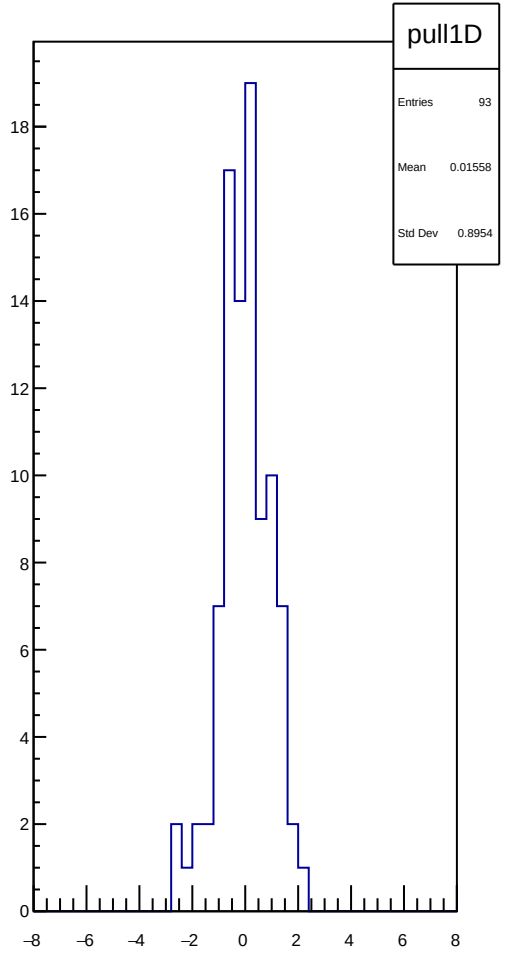

diff_bpm_4aX_4ecX_dd_rms vs run
χ² / ndf 3640 / 92
p0 629.2 ± 0.4628
720
700
680
660
640
620
600
580
560

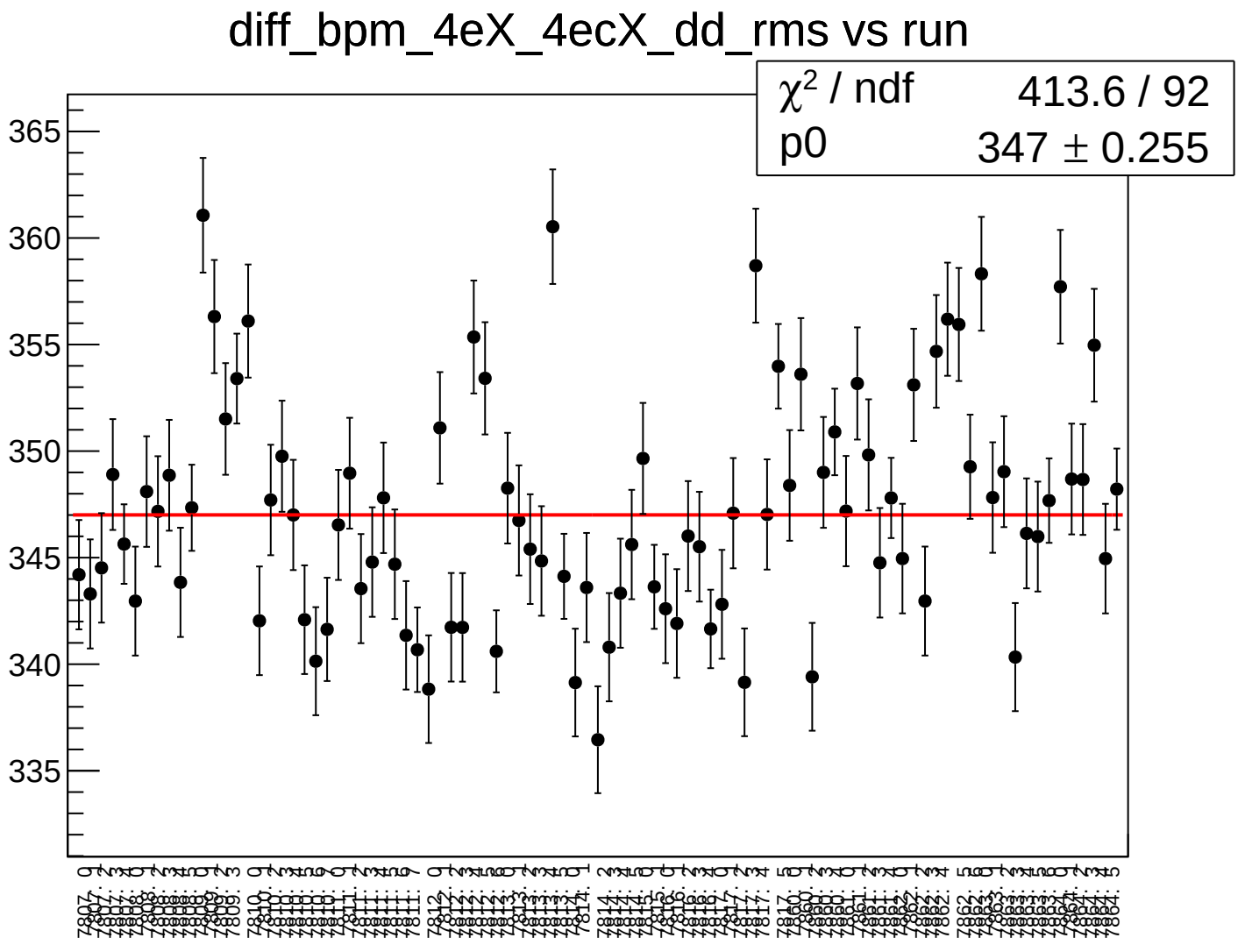

diff_bpm_4eX_4ecX_avg_mean vs run
χ² / ndf 84.48 / 92
p0 −8.408 ± 27.56
1000
500
0
−500
−1000
pull
Entries 93
Mean −24.6
Std Dev 18.8
2
1
0
−1
−2

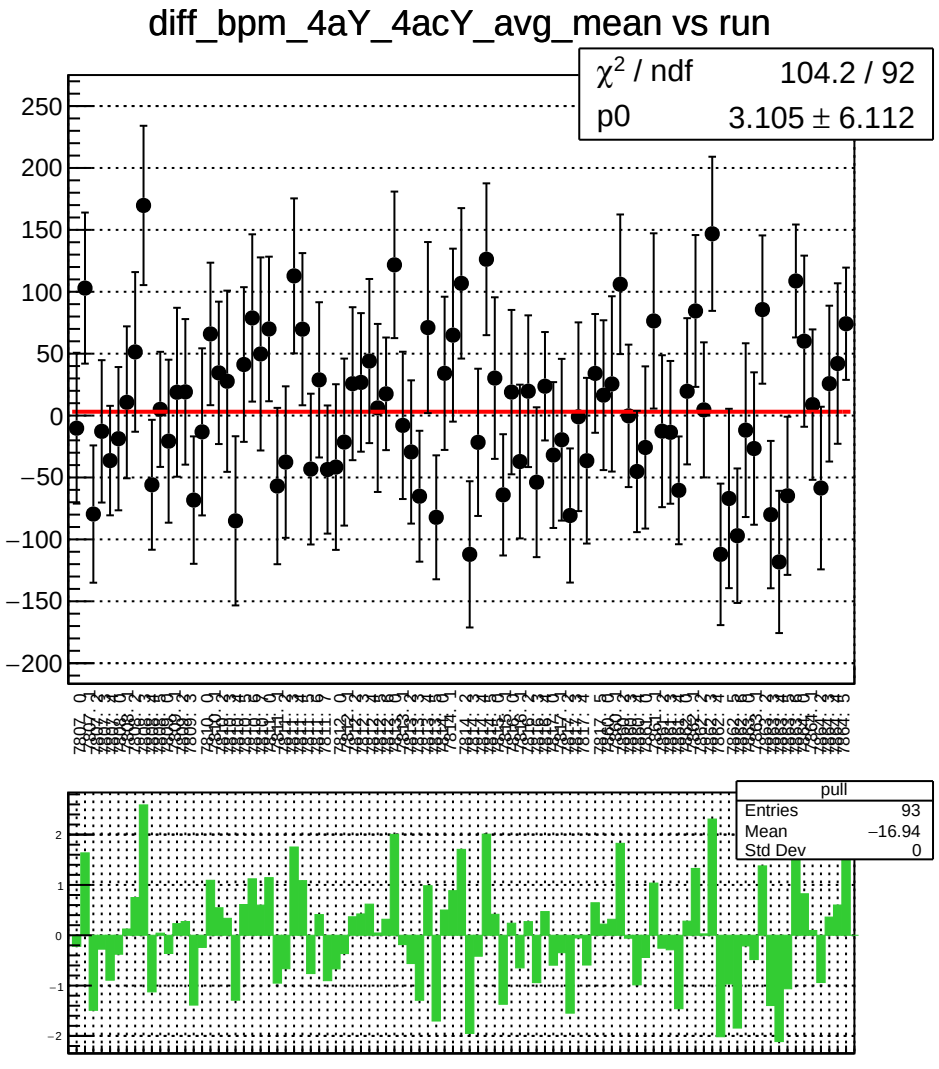

pull1D
Entries 93
Mean −0.01269
Std Dev 0.953
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

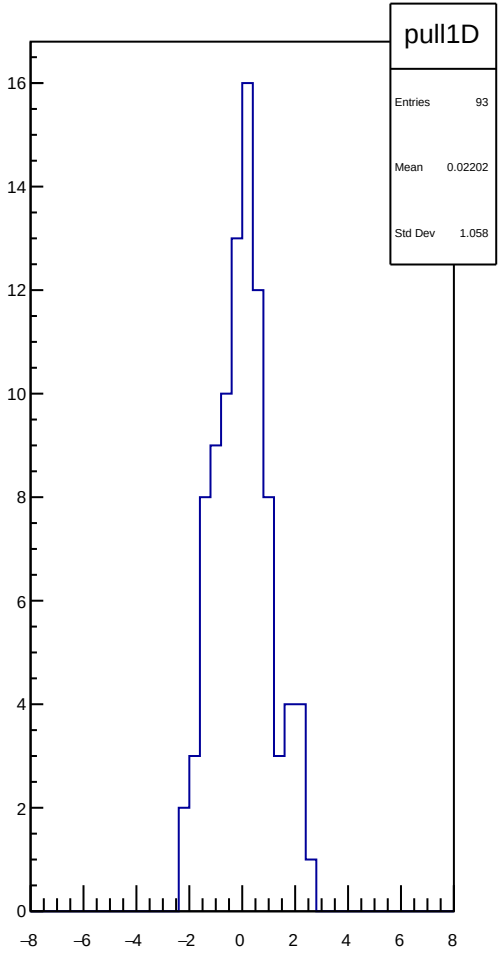

diff_bpm_4eX_4ecX_avg_rms vs run
χ² / ndf 5512 / 92
p0 2.648e+04 ± 19.49
31000
30000
29000
28000
27000
26000
25000
24000
23000
22000

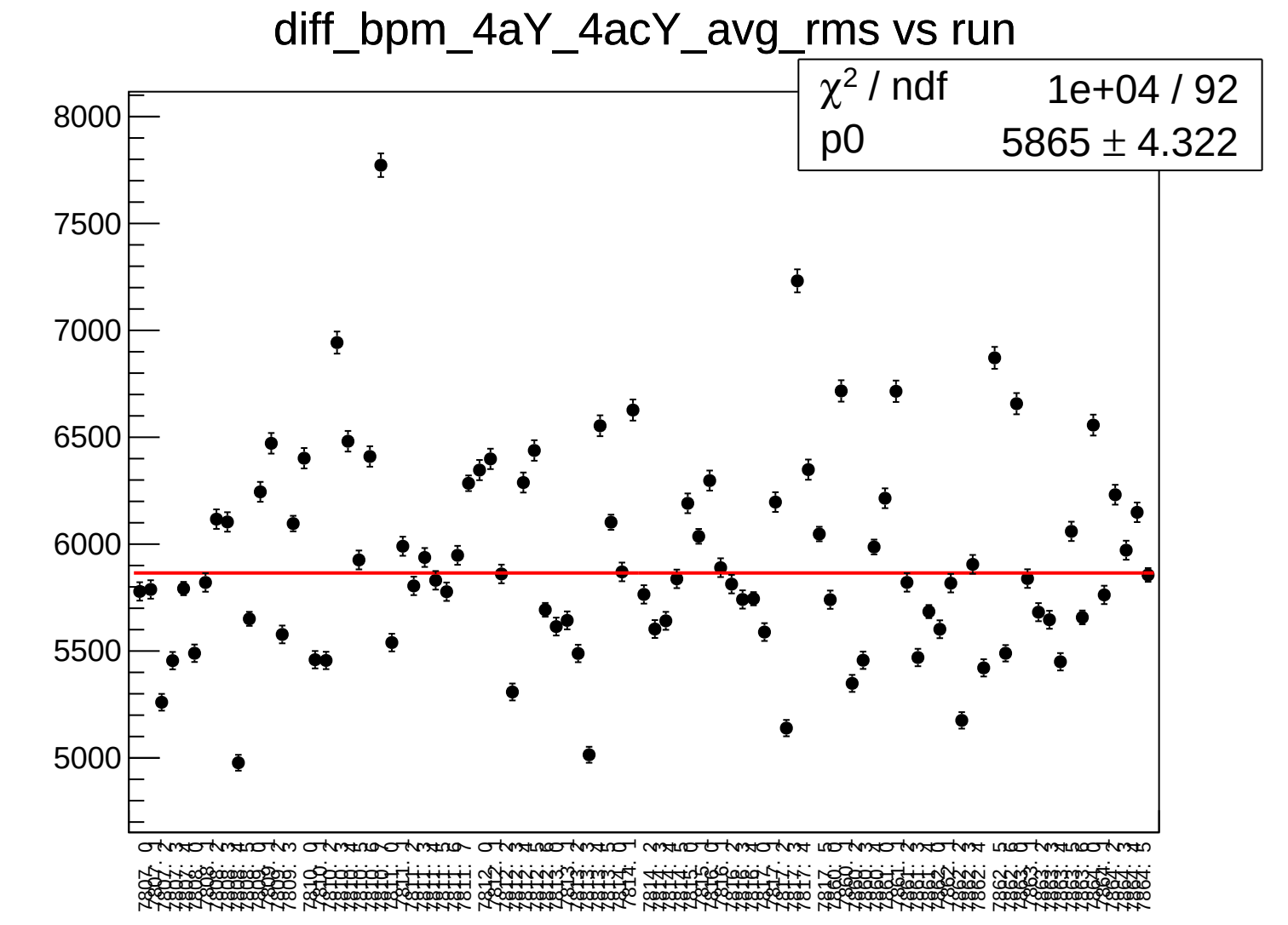

diff_bpm_4eX_4ecX_dd_mean vs run
χ² / ndf 74.59 / 92
p0 −0.5031± 0.3607
pull
Entries 93
Mean −42.83
Std Dev 0

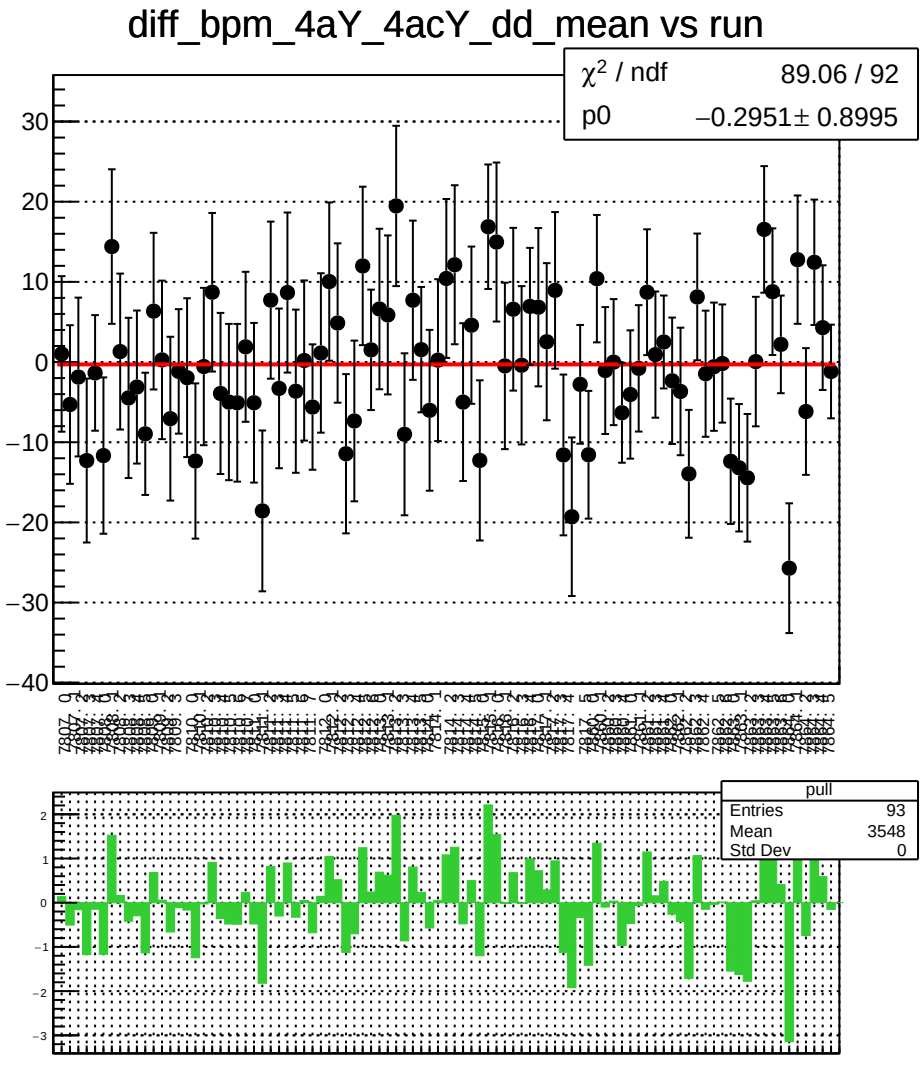

pull1D
Entries 93
Mean 0.01558
Std Dev 0.8954

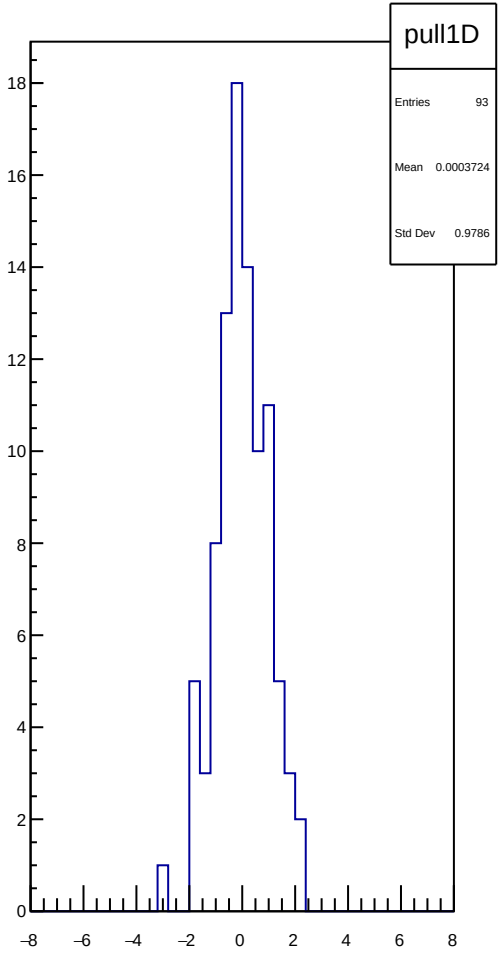

diff_bpm_4eX_4ecX_dd_rms vs run
χ² / ndf 413.6 / 92
p0 347 ± 0.255
365
360
355
350
345
340
335

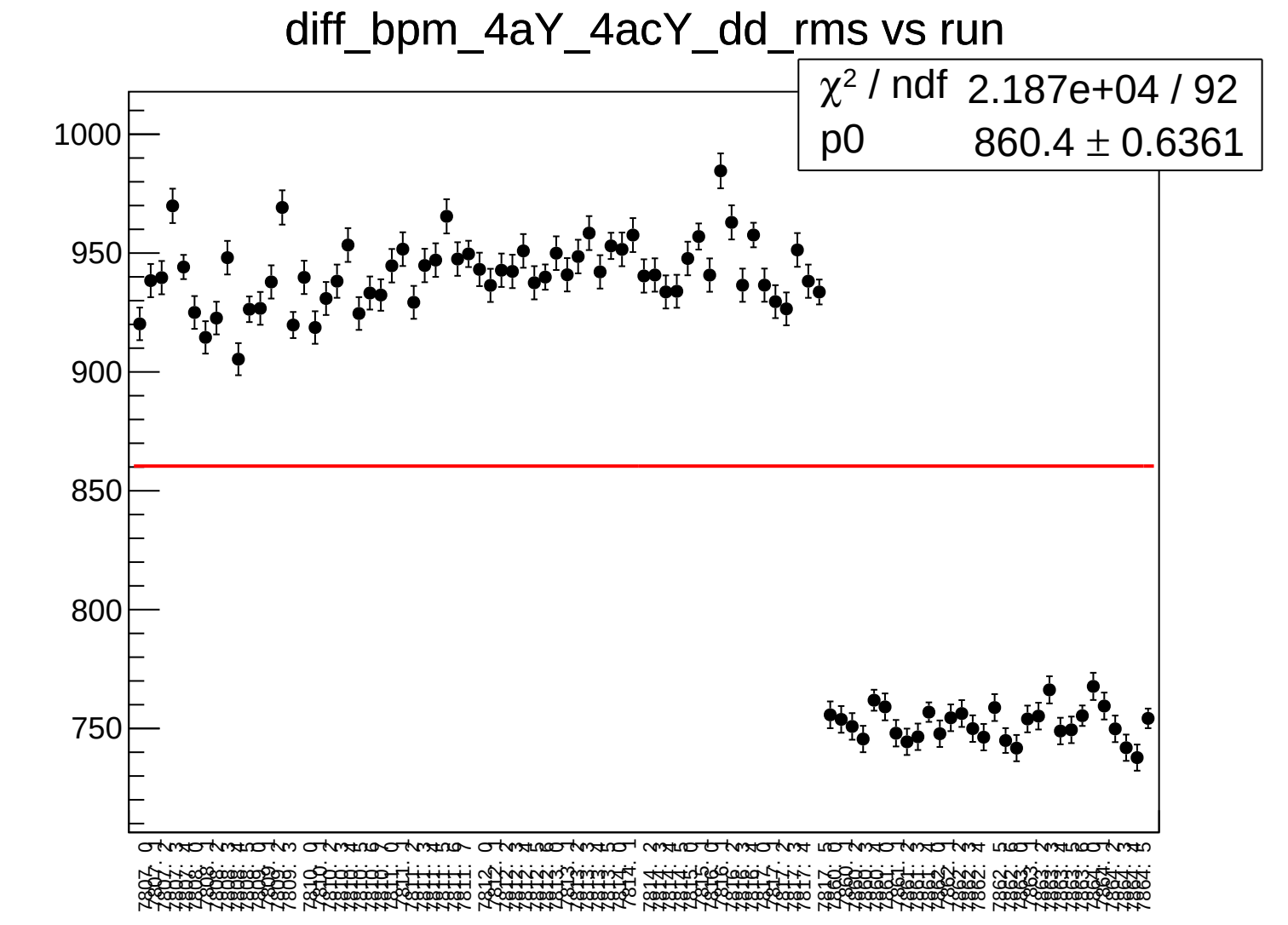

diff_bpm_4aY_4acY_avg_mean vs run
χ² / ndf 104.2 / 92
p0 3.105 ± 6.112
pull
Entries 93
Mean −16.94
Std Dev 0

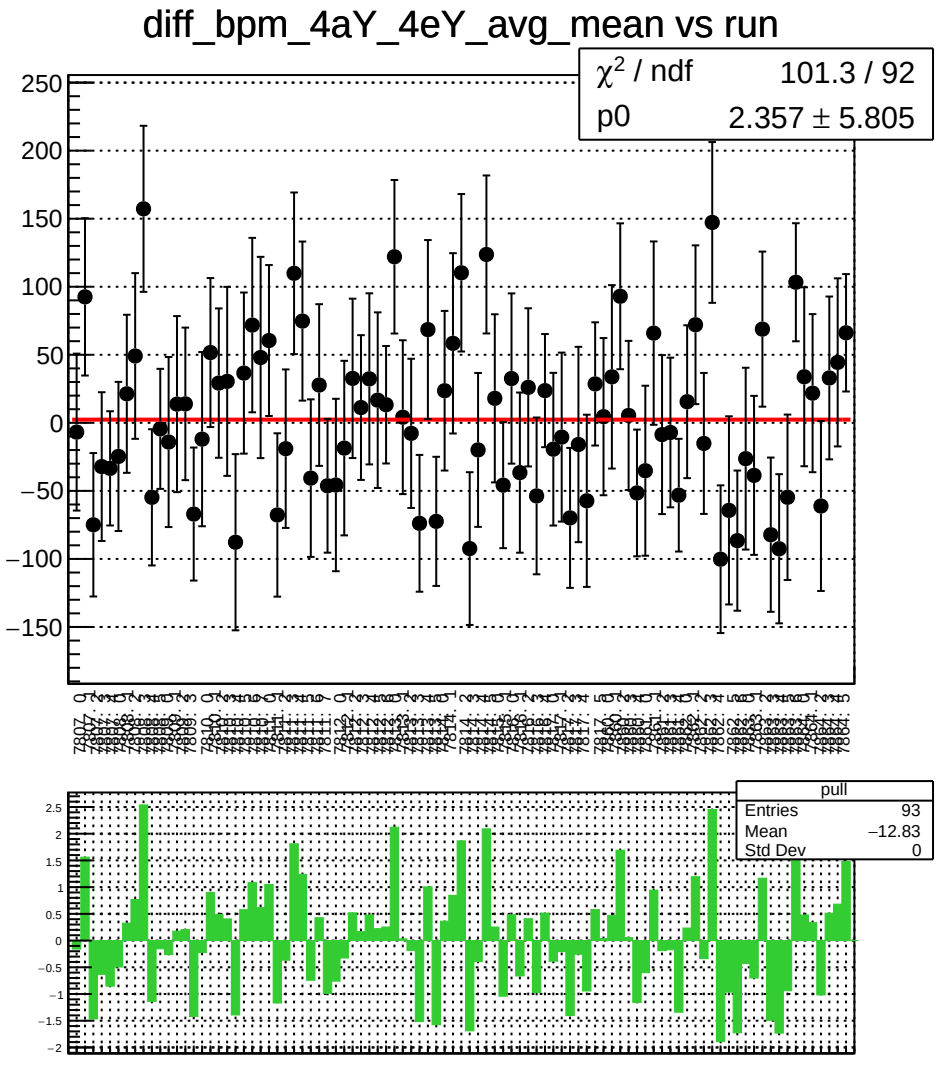

pull1D
Entries 93
Mean 0.02202
Std Dev 1.058

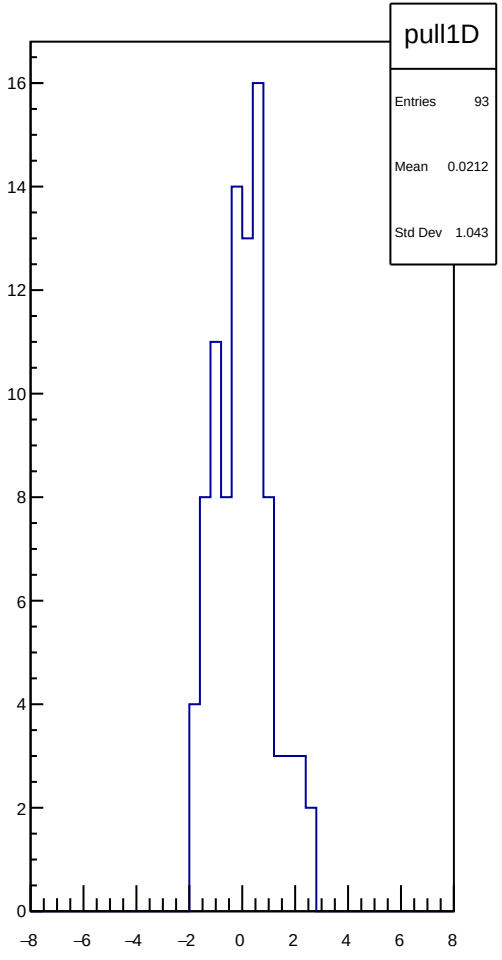

diff_bpm_4aY_4acY_avg_rms vs run
χ² / ndf 1e+04 / 92
p0 5865 ± 4.322
8000
7500
7000
6500
6000
5500
5000

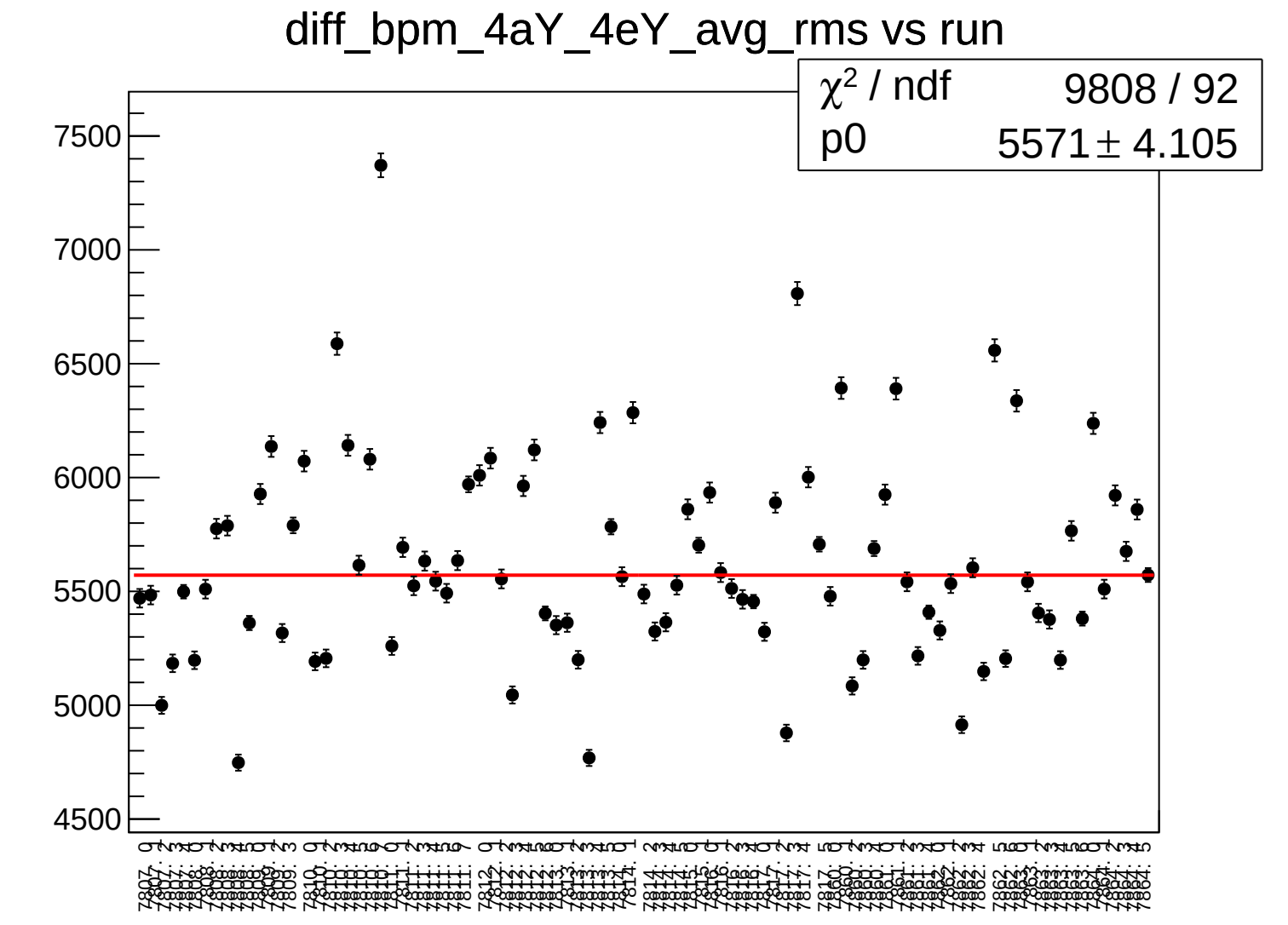

diff_bpm_4aY_4acY_dd_mean vs run
χ² / ndf 89.06 / 92
p0 −0.2951± 0.8995
pull
Entries 93
Mean 3548
Std Dev 0

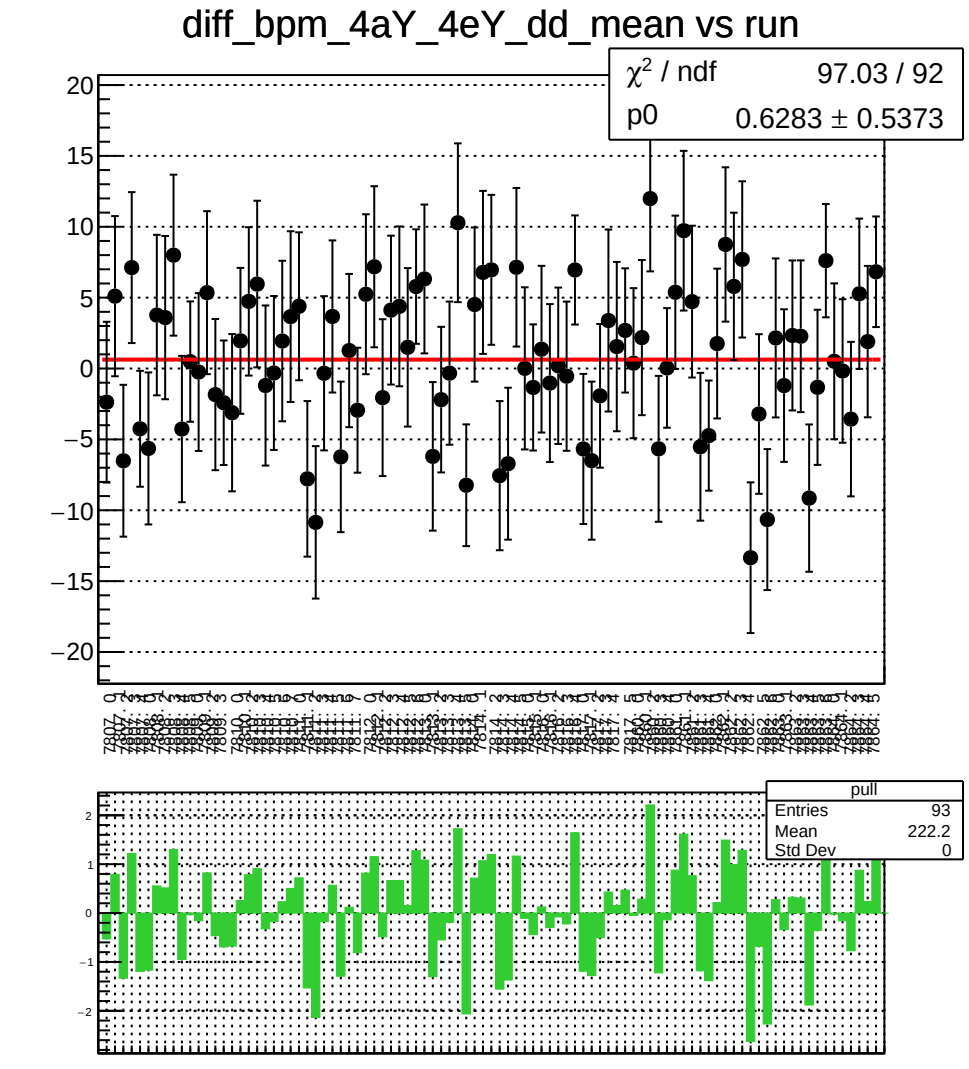

pull1D
Entries 93
Mean 0.0003724
Std Dev 0.9786

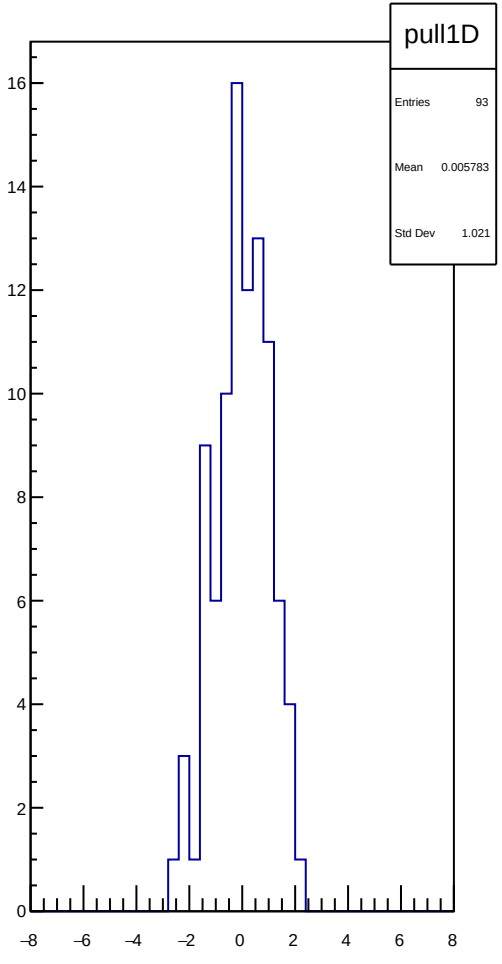

diff_bpm_4aY_4acY_dd_rms vs run
χ² / ndf 2.187e+04 / 92
p0 860.4 ± 0.6361
1000
950
900
850
800
750

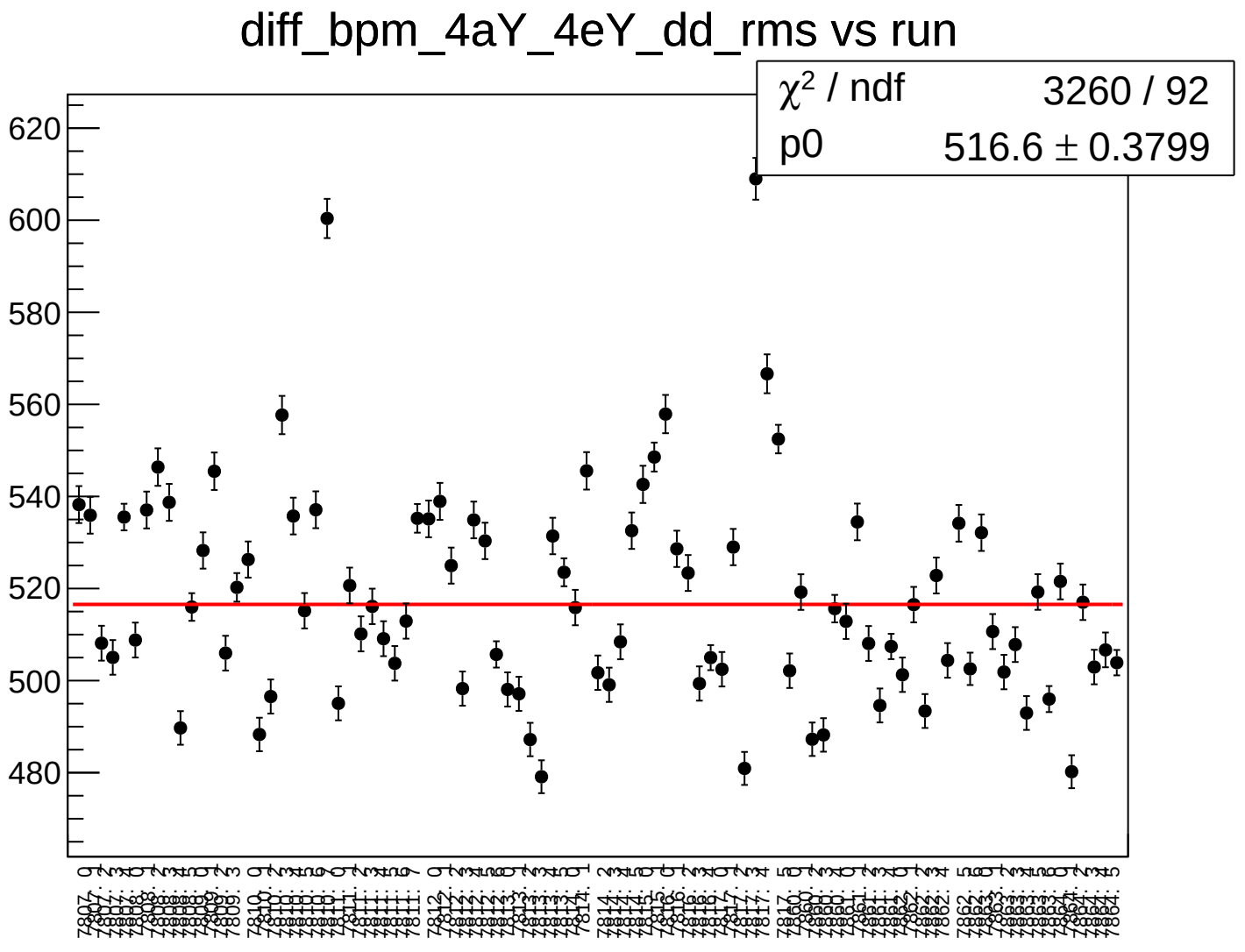

diff_bpm_4aY_4eY_avg_mean vs run
χ² / ndf 101.3 / 92
p0 2.357 ± 5.805
pull
Entries 93
Mean −12.83
Std Dev 0

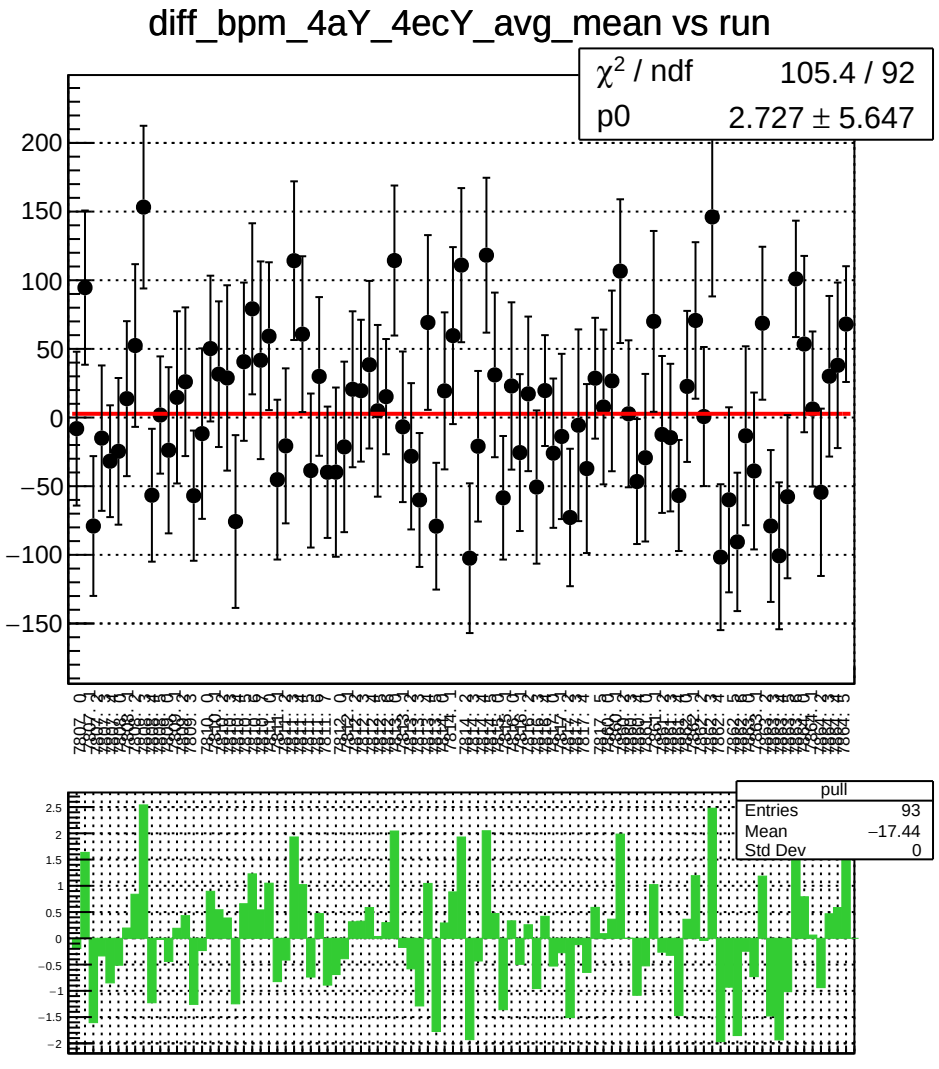

pull1D
Entries 93
Mean 0.0212
Std Dev 1.043

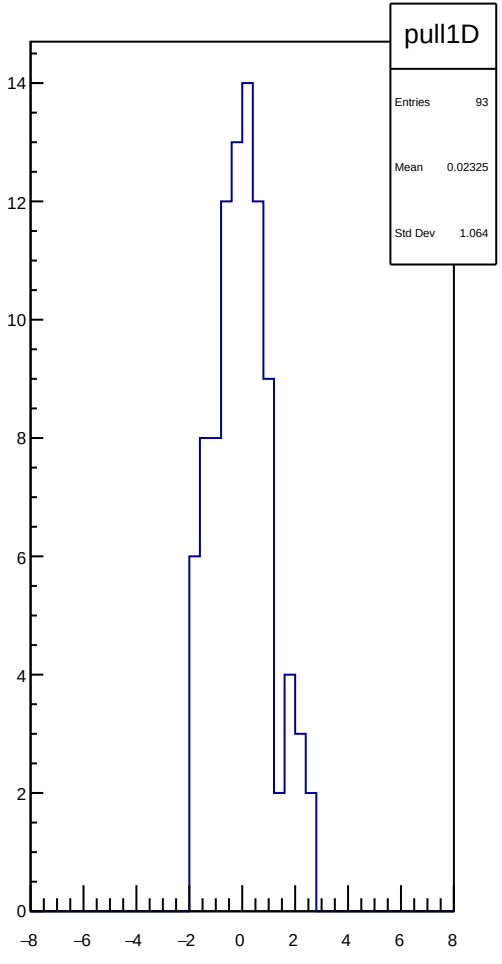

diff_bpm_4aY_4eY_avg_rms vs run
χ^2 / ndf 9808 / 92
p0 5571 ± 4.105
7500
7000
6500
6000
5500
5000
4500

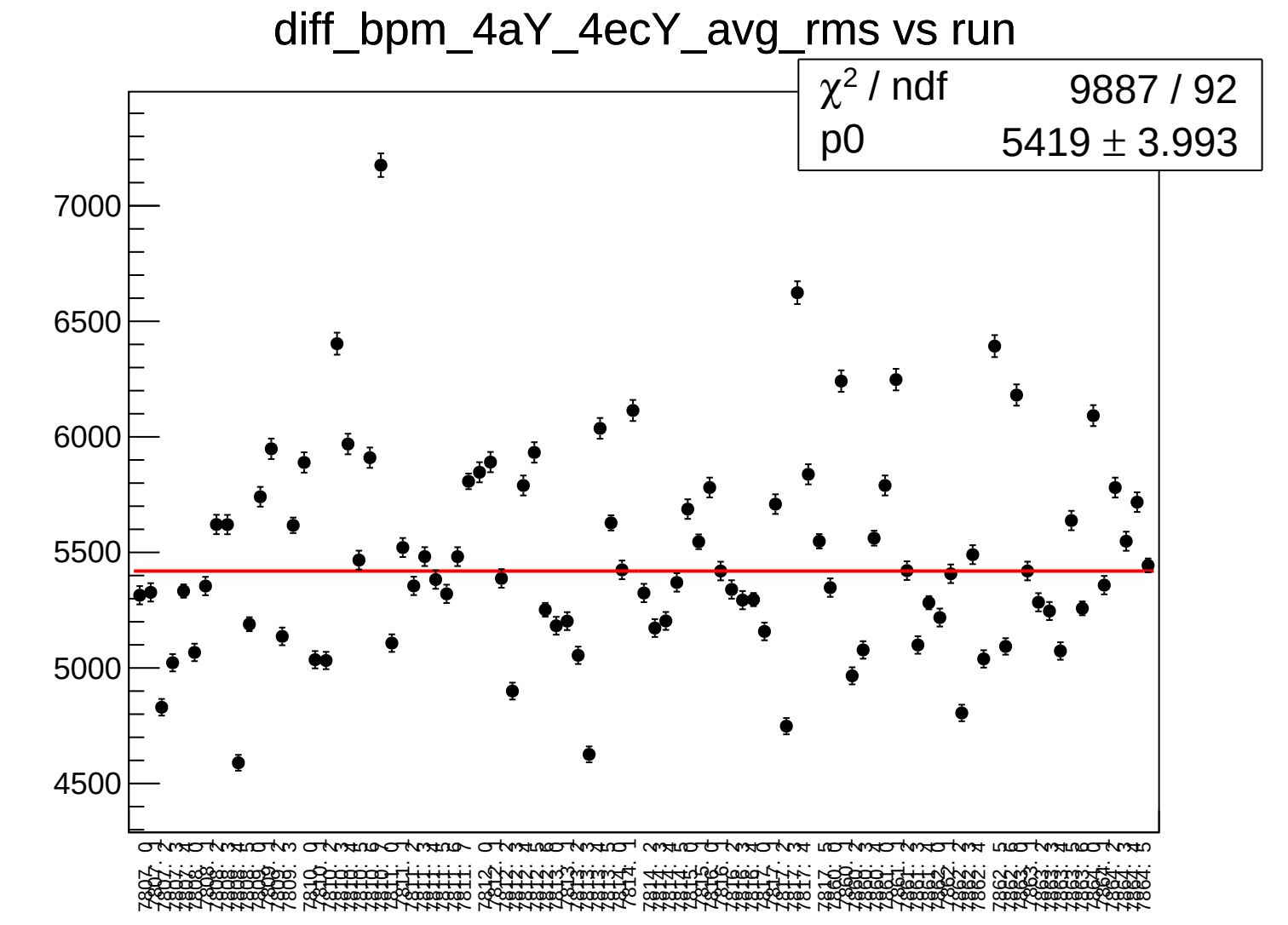

diff_bpm_4aY_4eY_dd_mean vs run
χ² / ndf 97.03 / 92
p0 0.6283 ± 0.5373
pull
Entries 93
Mean 222.2
Std Dev 0

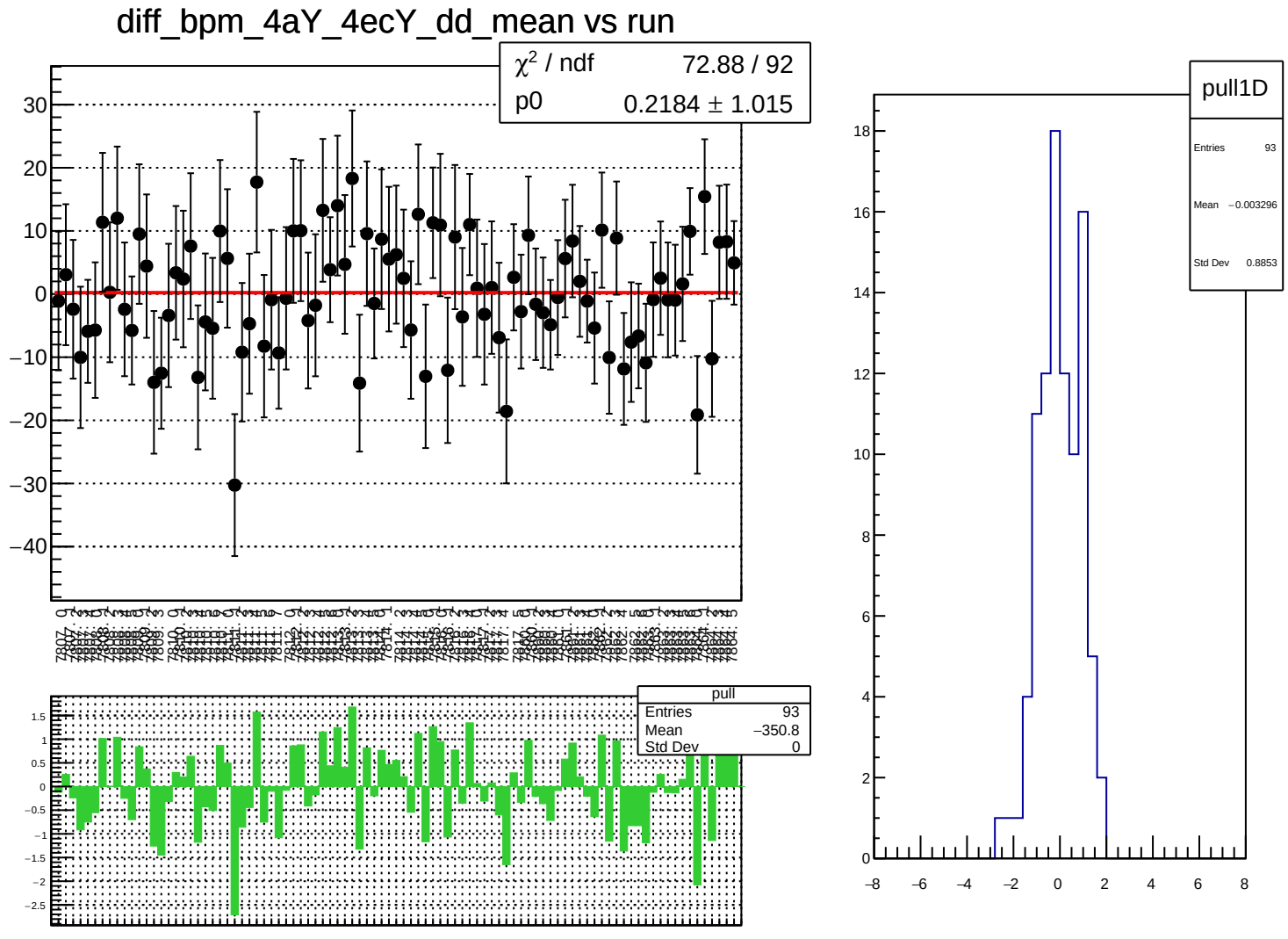

pull1D
Entries 93
Mean 0.005783
Std Dev 1.021

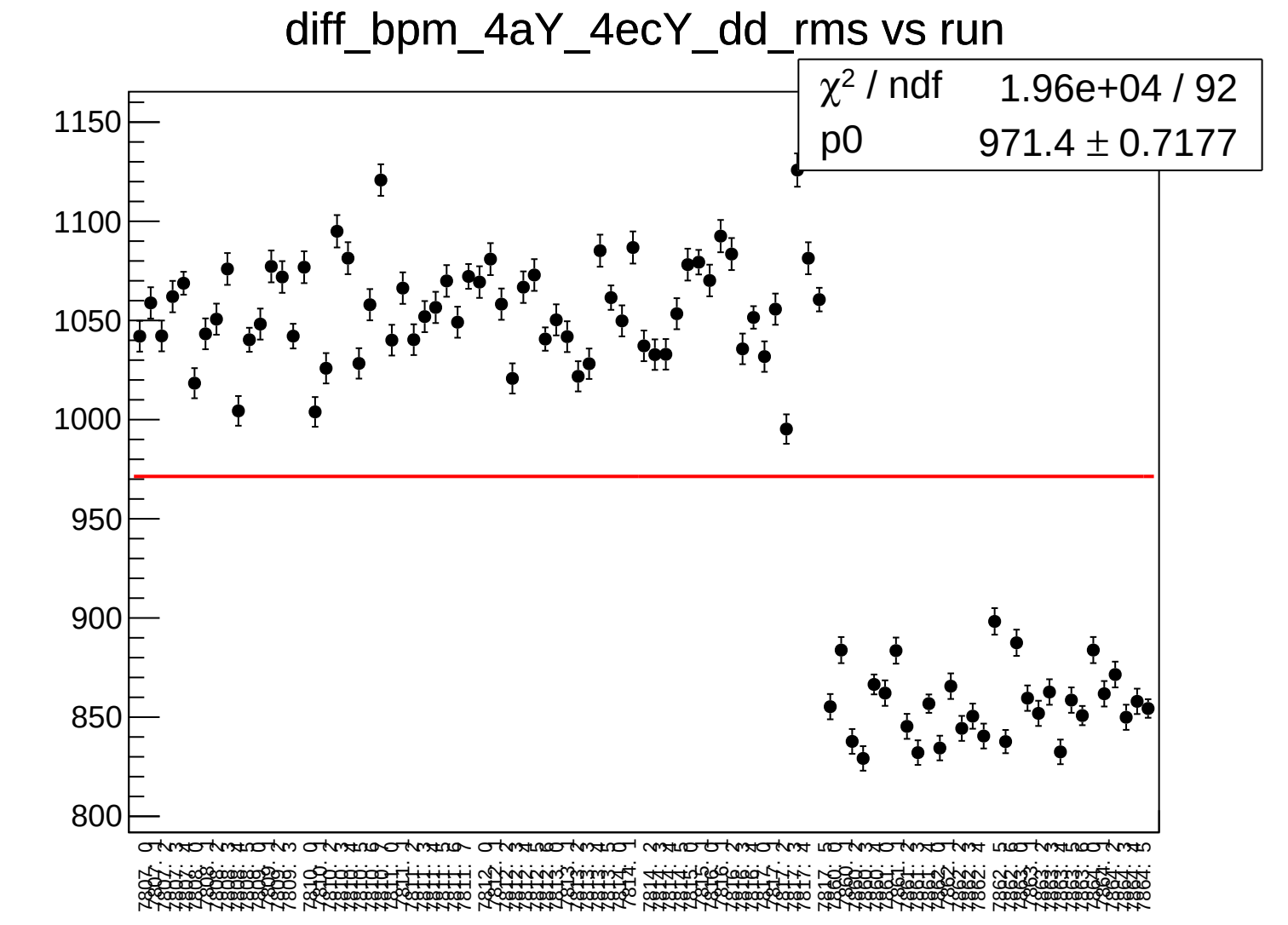

diff_bpm_4aY_4eY_dd_rms vs run
χ² / ndf 3260 / 92
p0 516.6 ± 0.3799
620
600
580
560
540
520
500
480

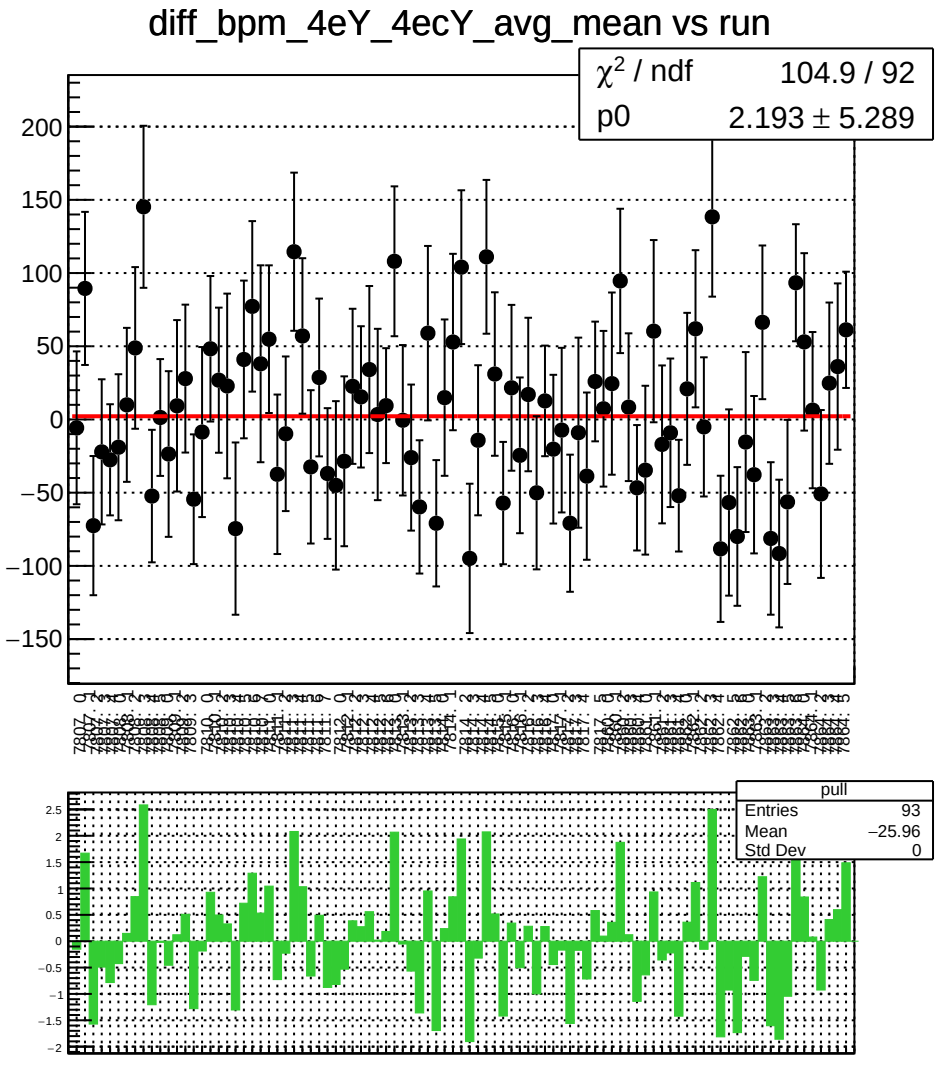

diff_bpm_4aY_4ecY_avg_mean vs run
χ² / ndf 105.4 / 92
p0 2.727 ± 5.647
pull
Entries 93
Mean −17.44
Std Dev 0

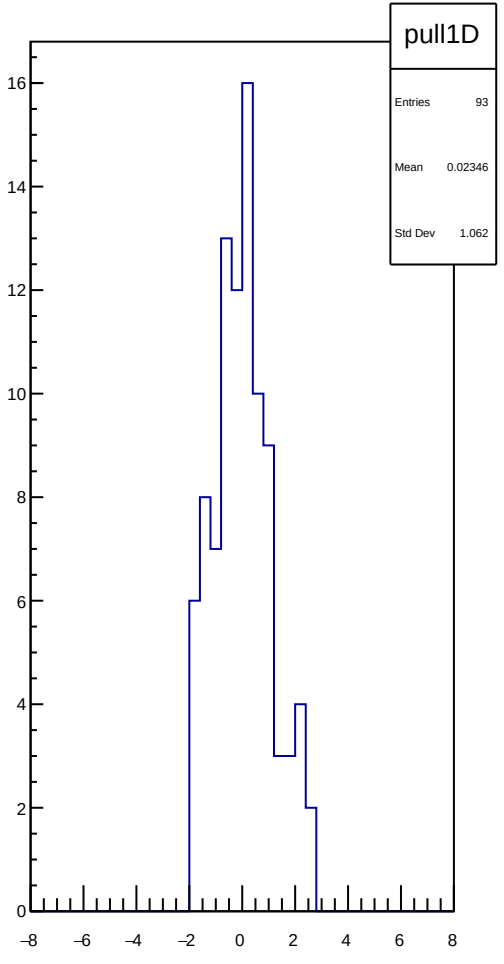

pull1D
Entries 93
Mean 0.02325
Std Dev 1.064

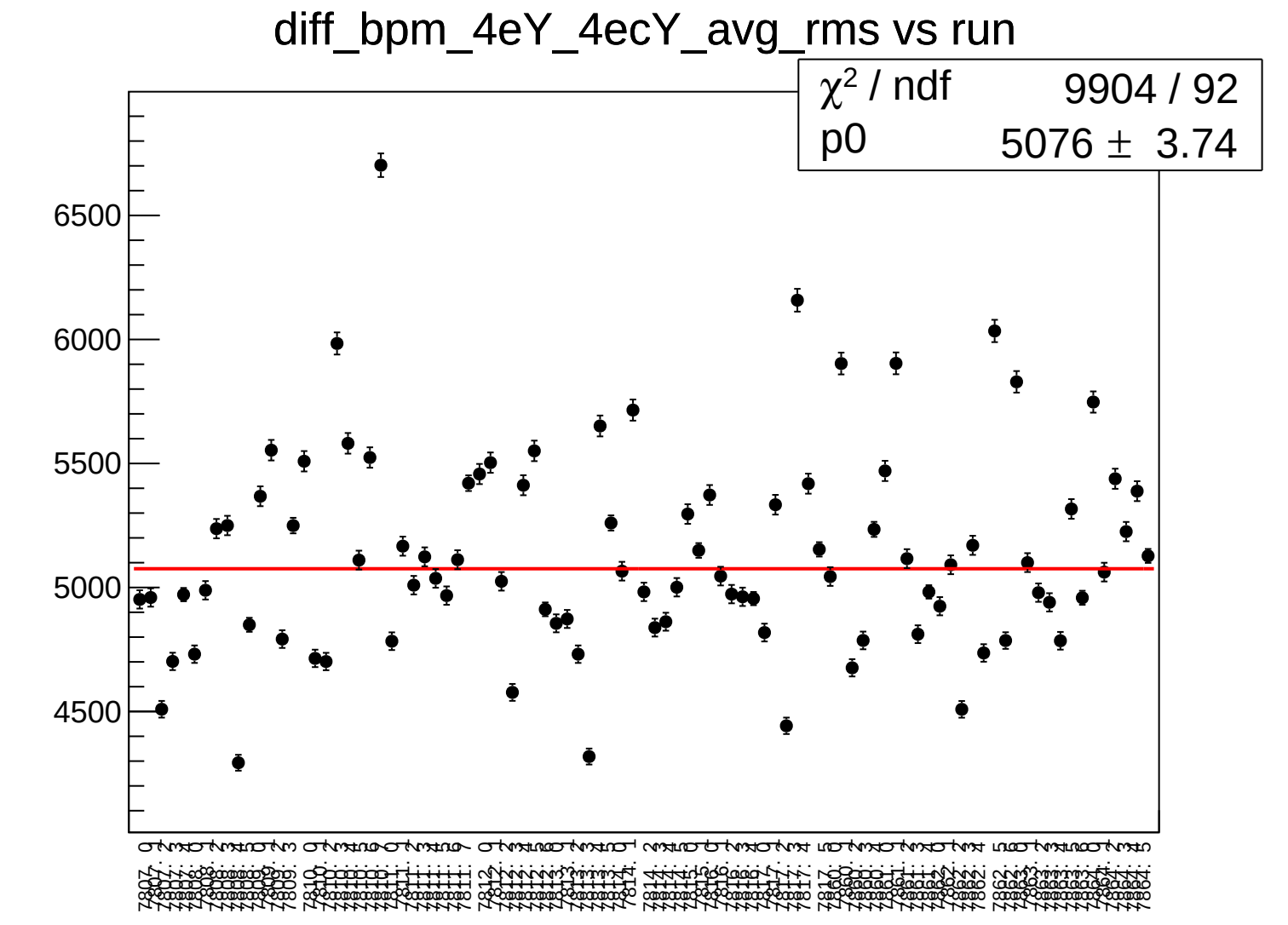

diff_bpm_4aY_4ecY_avg_rms vs run
χ² / ndf 9887 / 92
p0 5419 ± 3.993
7000
6500
6000
5500
5000
4500

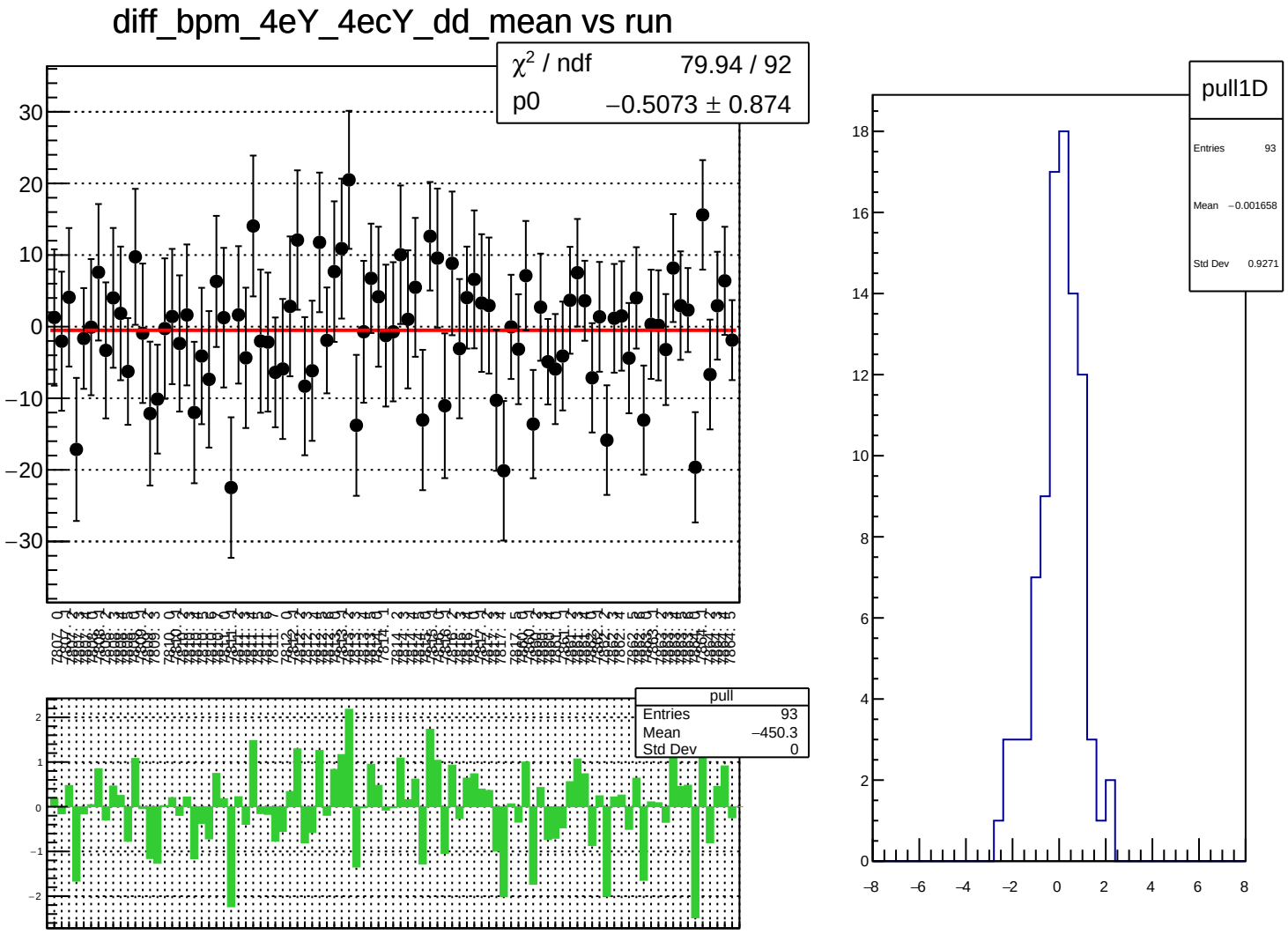

diff_bpm_4aY_4ecY_dd_mean vs run
χ² / ndf 72.88 / 92
p0 0.2184 ± 1.015
pull
Entries 93
Mean −350.8
Std Dev 0
pull1D
Entries 93
Mean −0.003296
Std Dev 0.8853

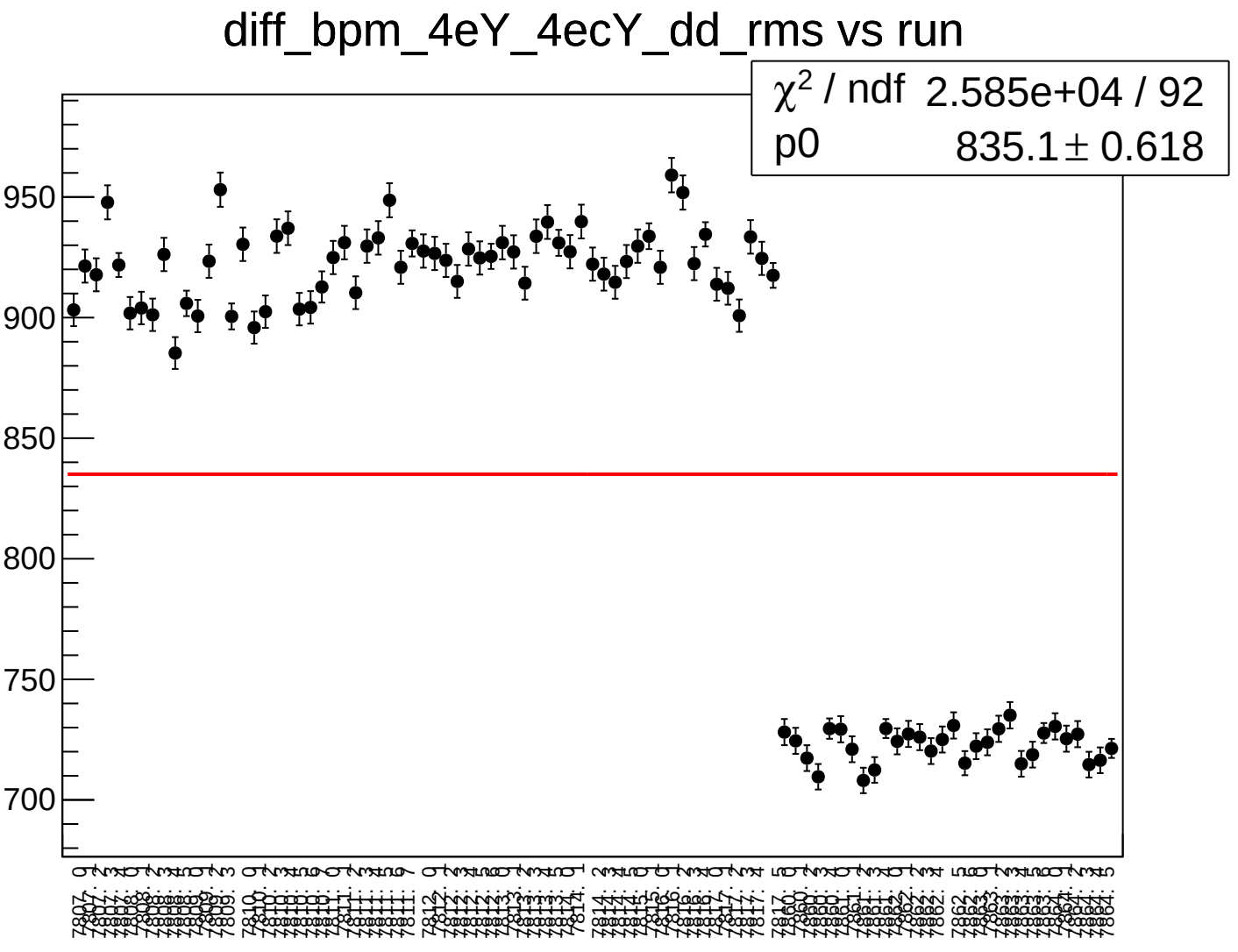

diff_bpm_4aY_4ecY_dd_rms vs run
χ² / ndf 1.96e+04 / 92
p0 971.4 ± 0.7177
1150
1100
1050
1000
950
900
850
800

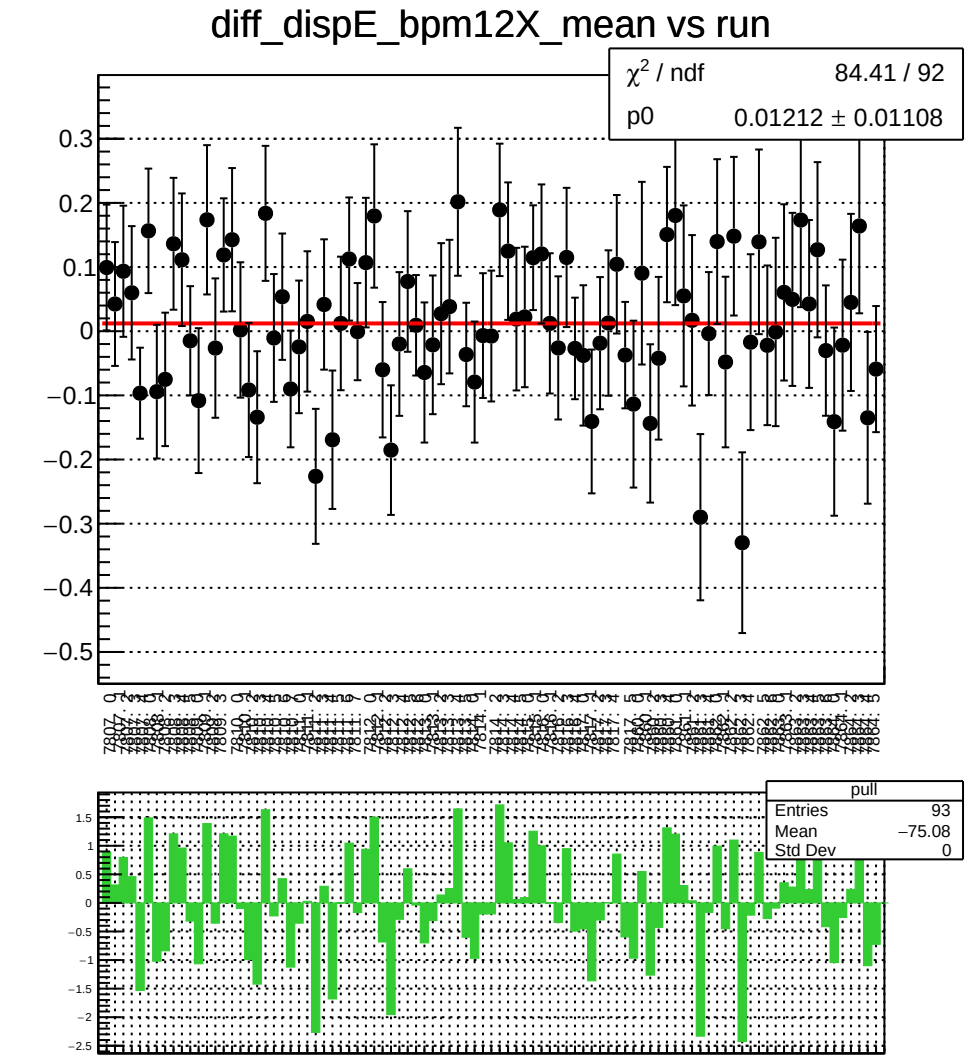

diff_bpm_4eY_4ecY_avg_mean vs run
χ^2 / ndf 104.9 / 92
p0 2.193 ± 5.289
pull
Entries 93
Mean −25.96
Std Dev 0

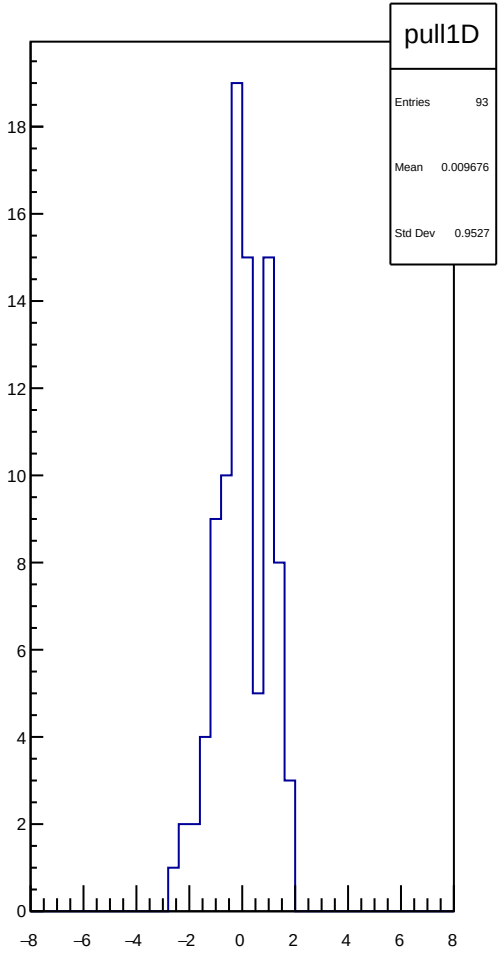

pull1D
Entries 93
Mean 0.02346
Std Dev 1.062

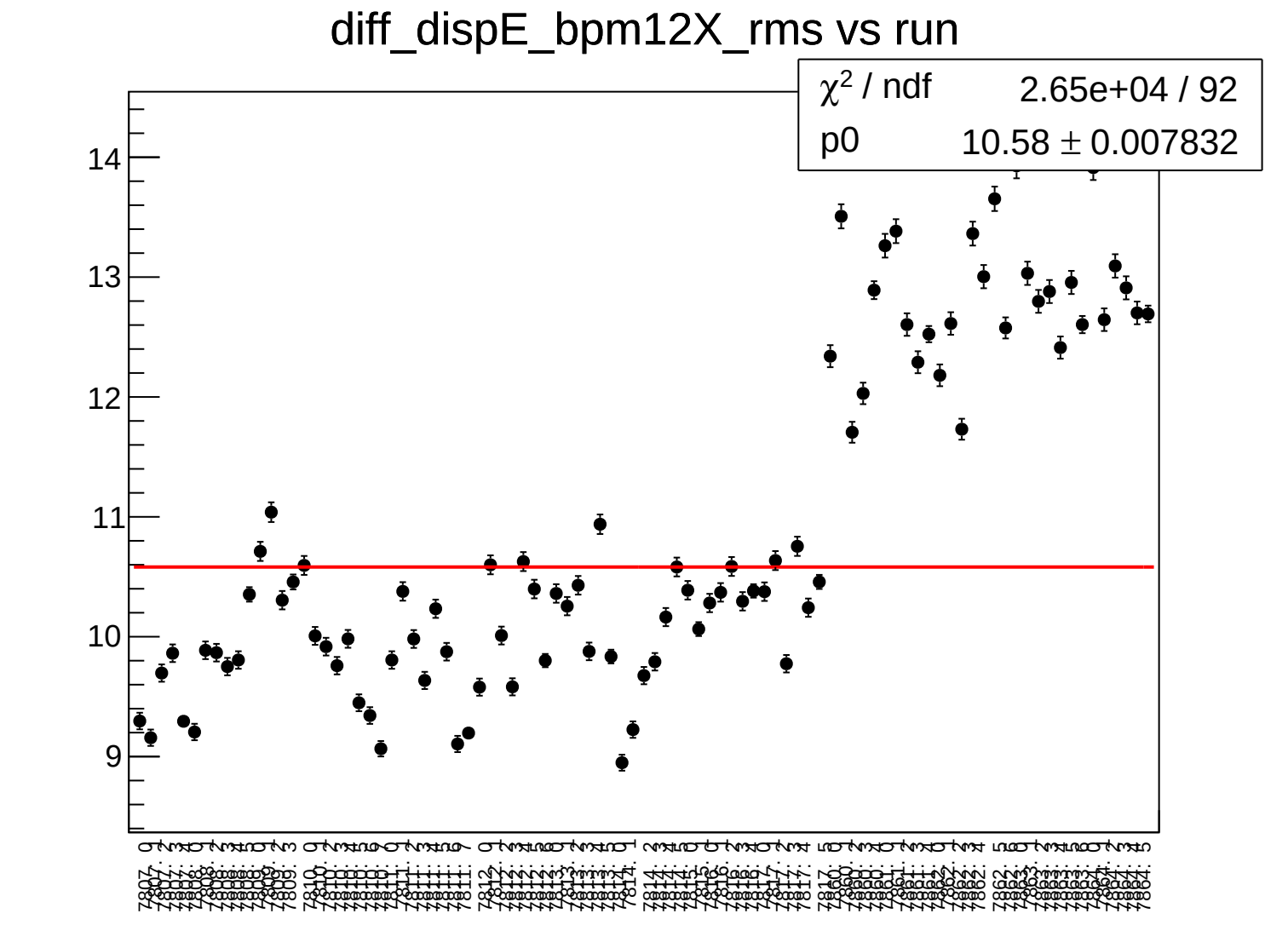

diff_bpm_4eY_4ecY_avg_rms vs run
χ² / ndf 9904 / 92
p0 5076 ± 3.74
6500
6000
5500
5000
4500

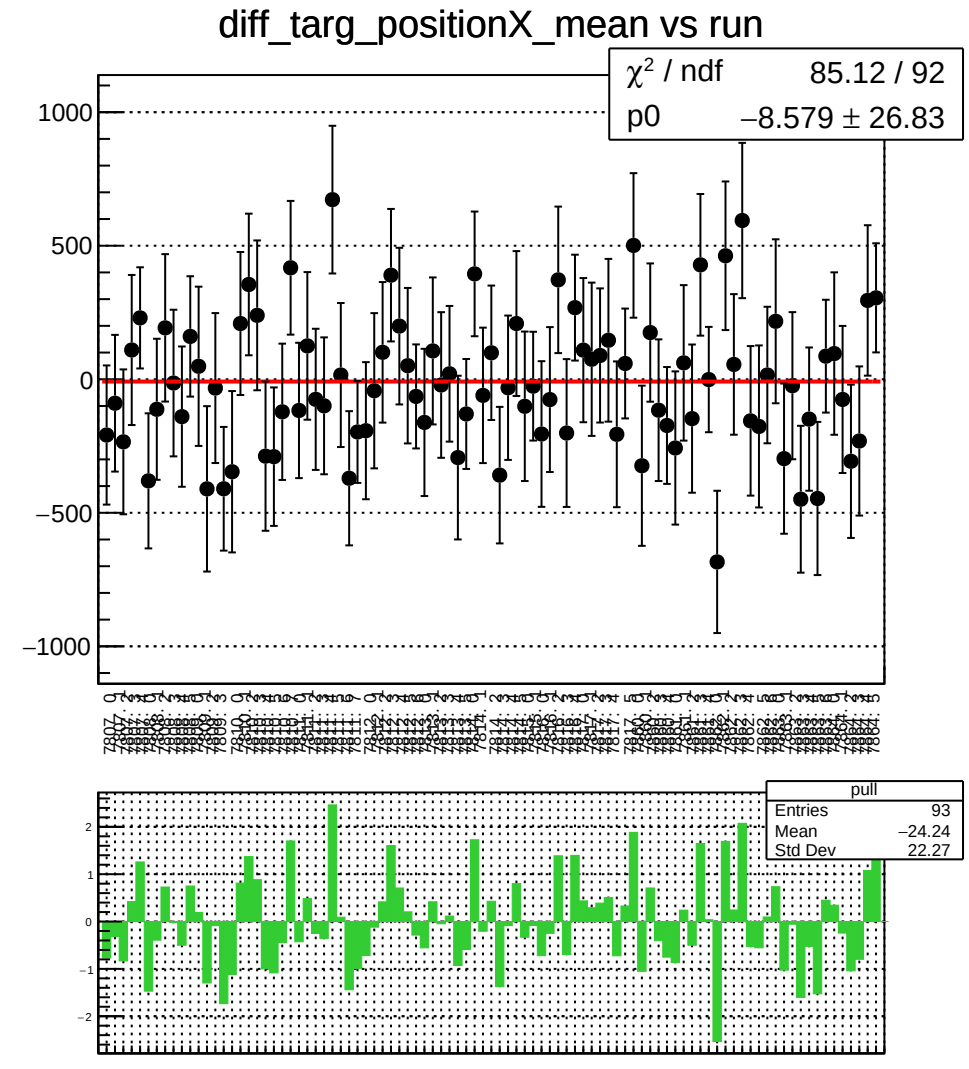

diff_bpm_4eY_4ecY_dd_mean vs run
χ² / ndf 79.94 / 92
p0 −0.5073 ± 0.874
30
20
10
0
−10
−20
−30
pull
Entries 93
Mean −450.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.001658
Std Dev 0.9271
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

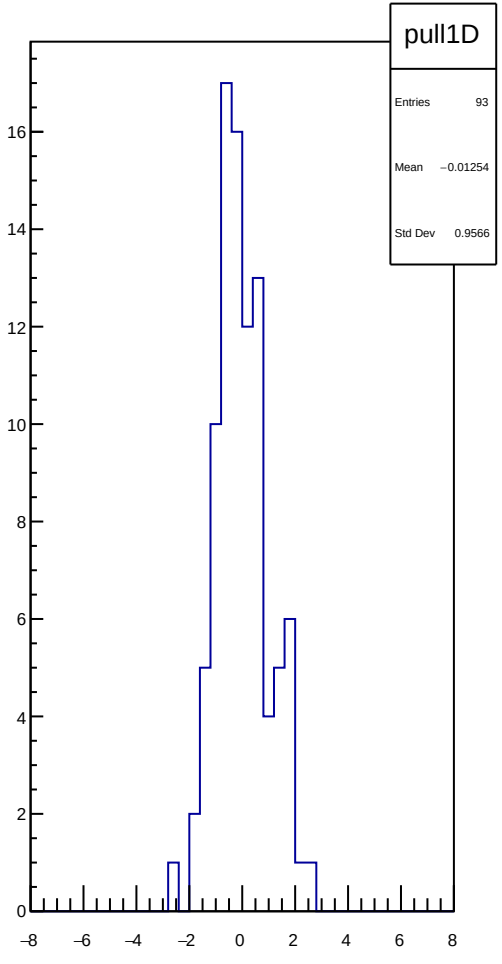

diff_bpm_4eY_4ecY_dd_rms vs run
χ² / ndf 2.585e+04 / 92
p0 835.1 ± 0.618
950
900
850
800
750
700

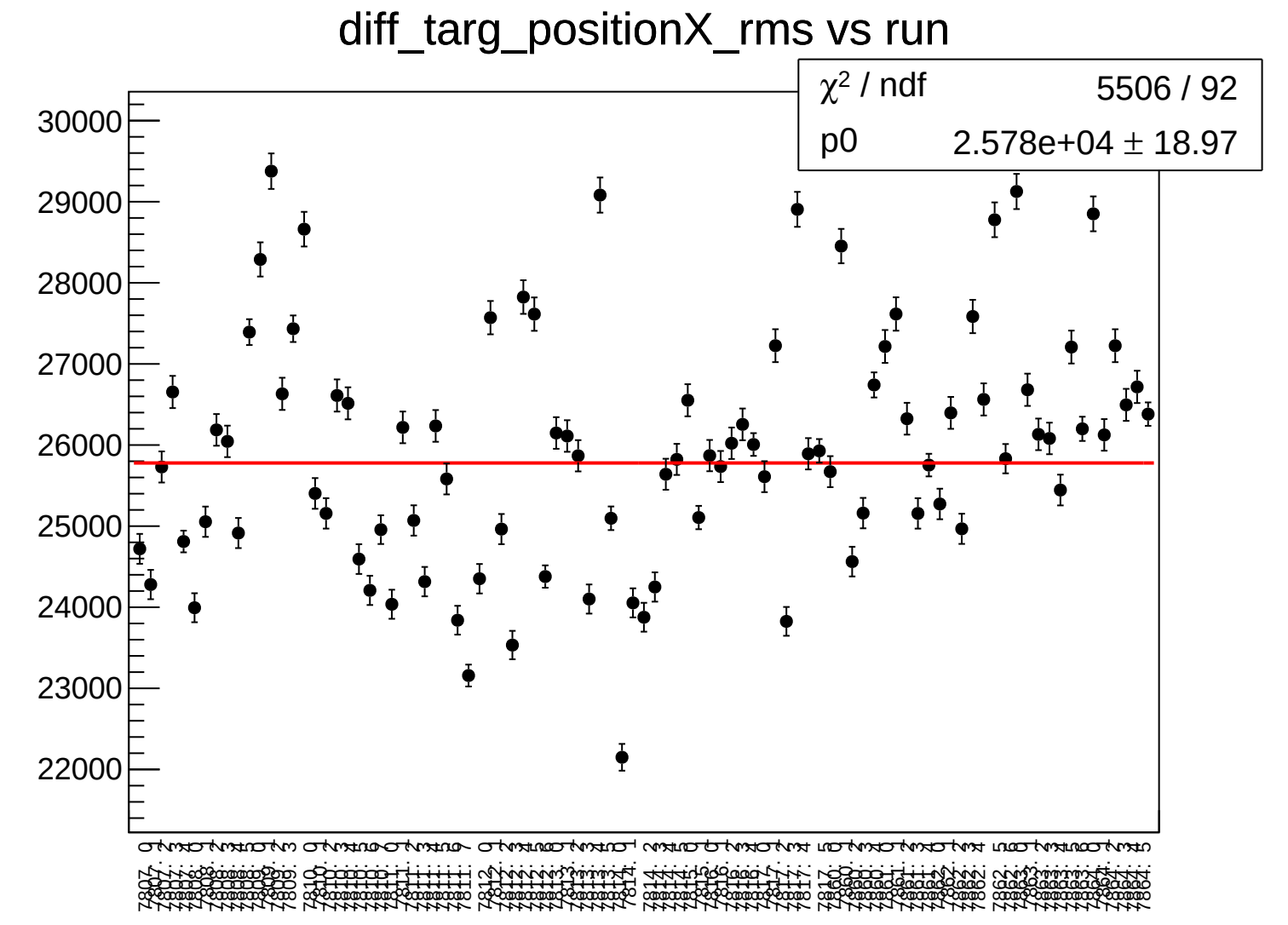

diff_dispE_bpm12X_mean vs run
χ² / ndf 84.41 / 92
p0 0.01212 ± 0.01108
pull
Entries 93
Mean −75.08
Std Dev 0

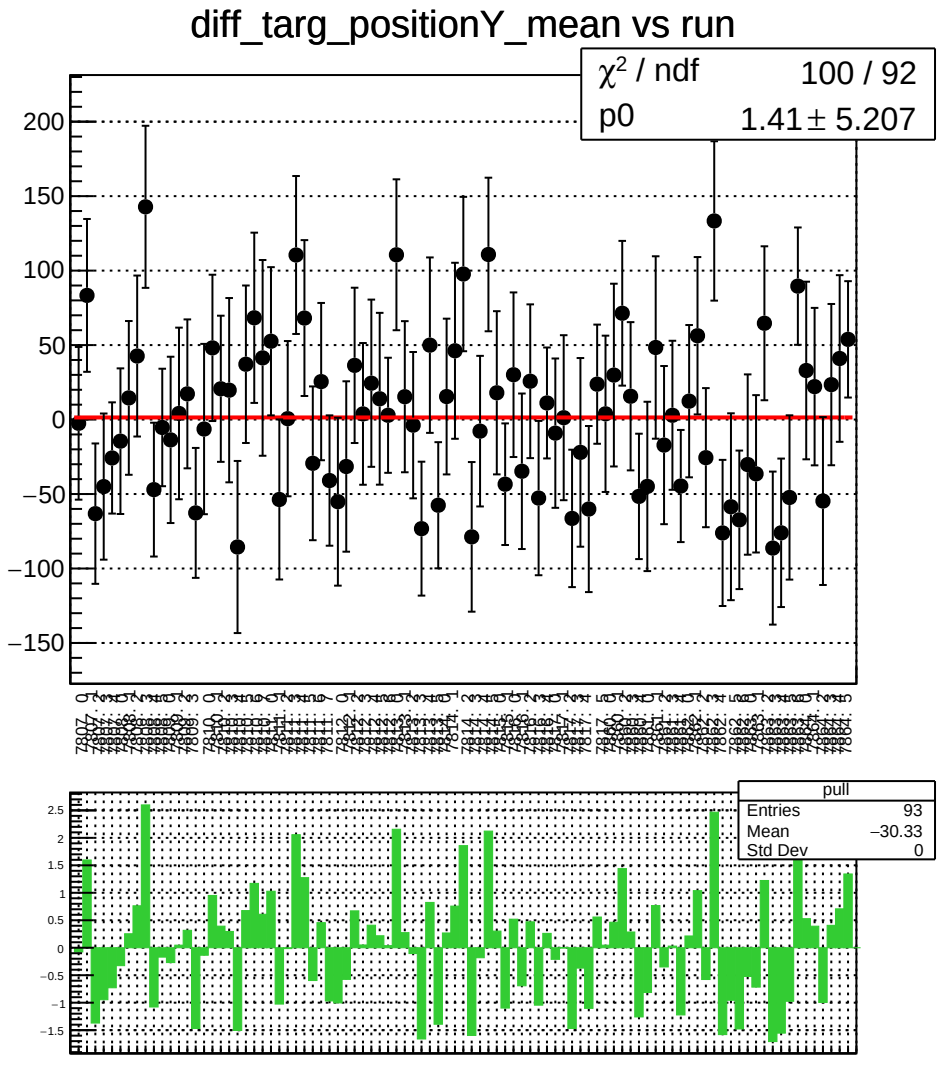

pull1D
Entries 93
Mean 0.009676
Std Dev 0.9527

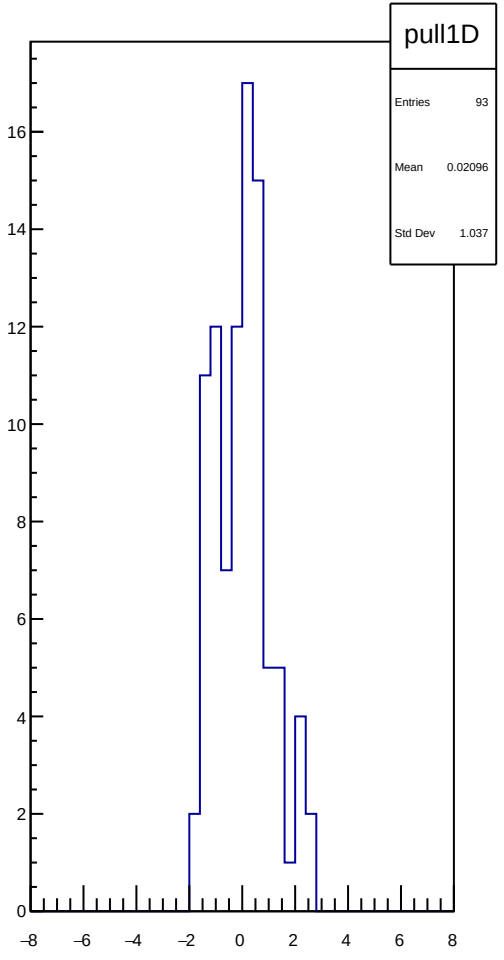

diff_dispE_bpm12X_rms vs run
χ^2 / ndf 2.65e+04 / 92
p0 10.58 ± 0.007832
14
13
12
11
10
9

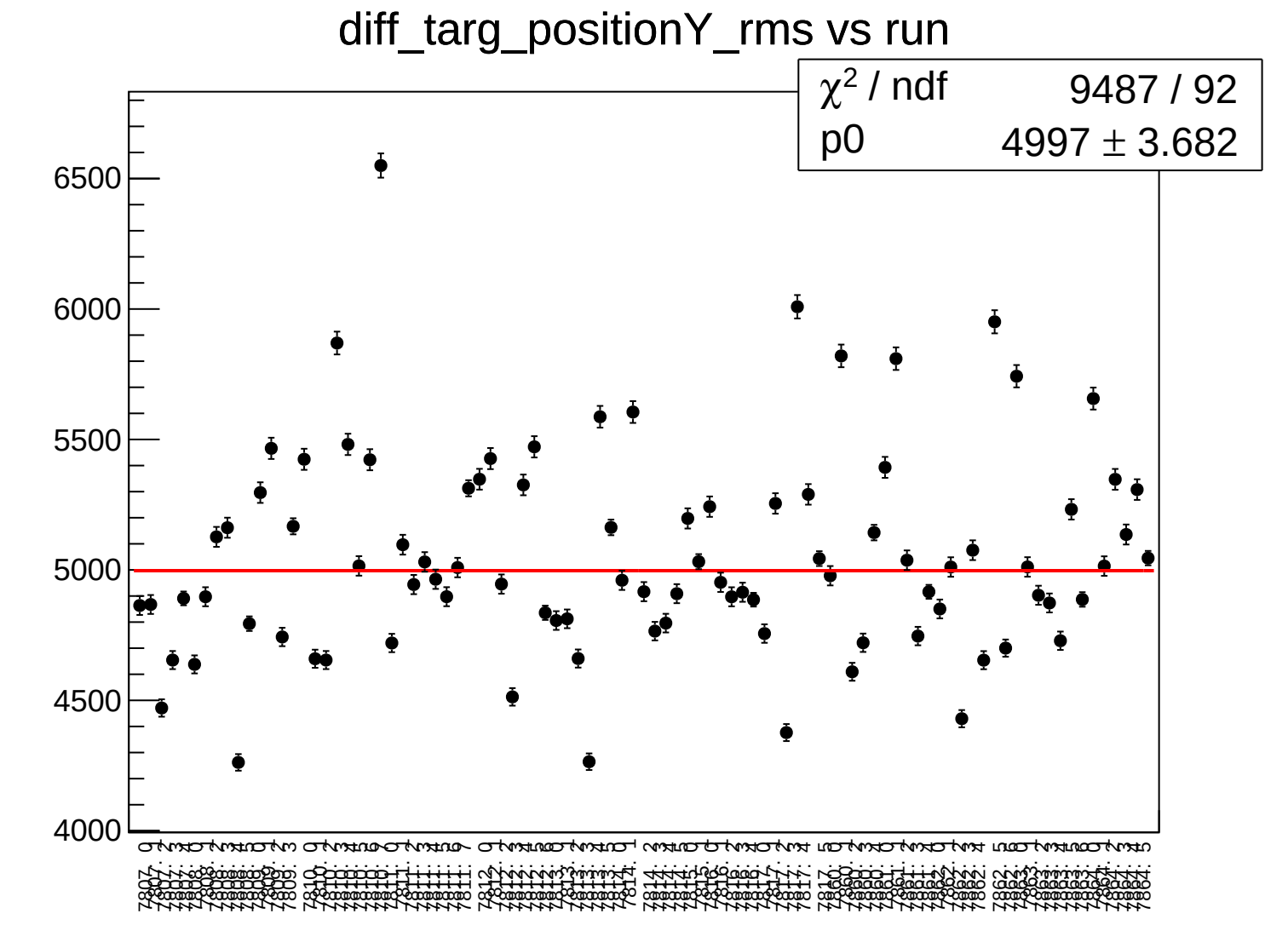

diff_targ_positionX_mean vs run
χ² / ndf 85.12 / 92
p0 −8.579 ± 26.83
1000
500
0
−500
−1000
pull
Entries 93
Mean −24.24
Std Dev 22.27
2
1
0
−1
−2

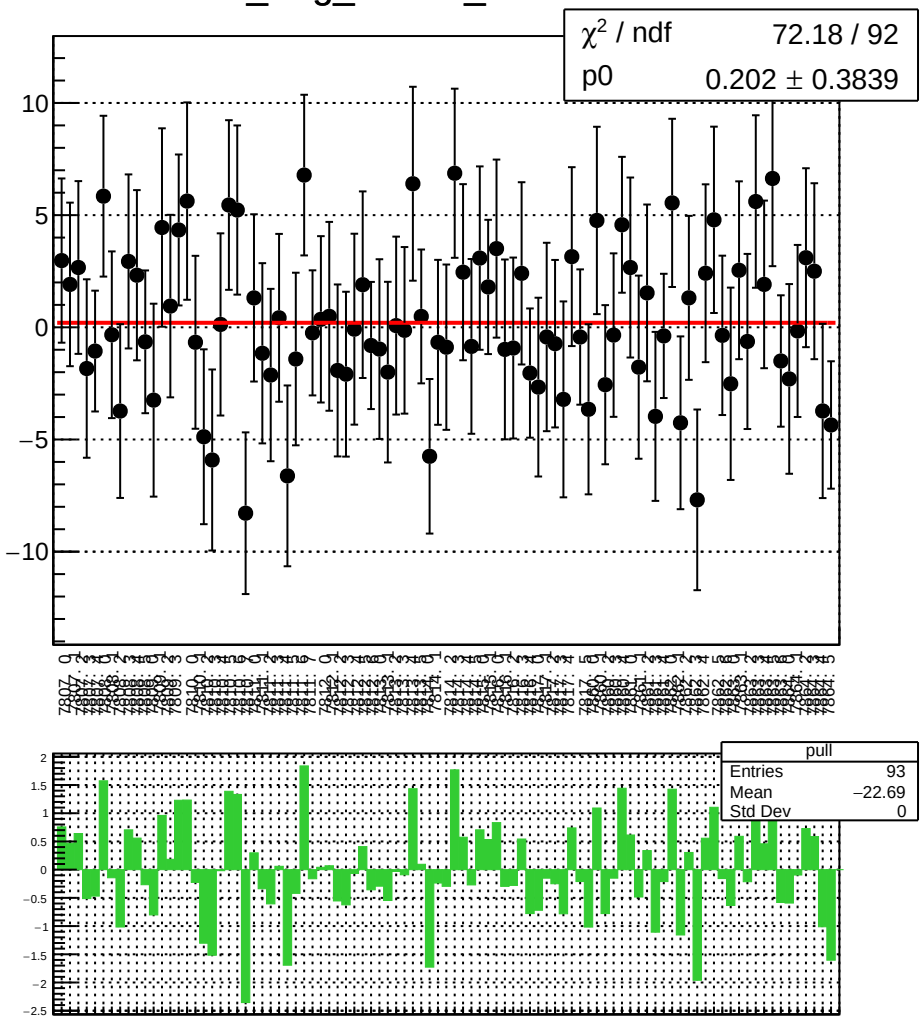

pull1D
Entries 93
Mean −0.01254
Std Dev 0.9566
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

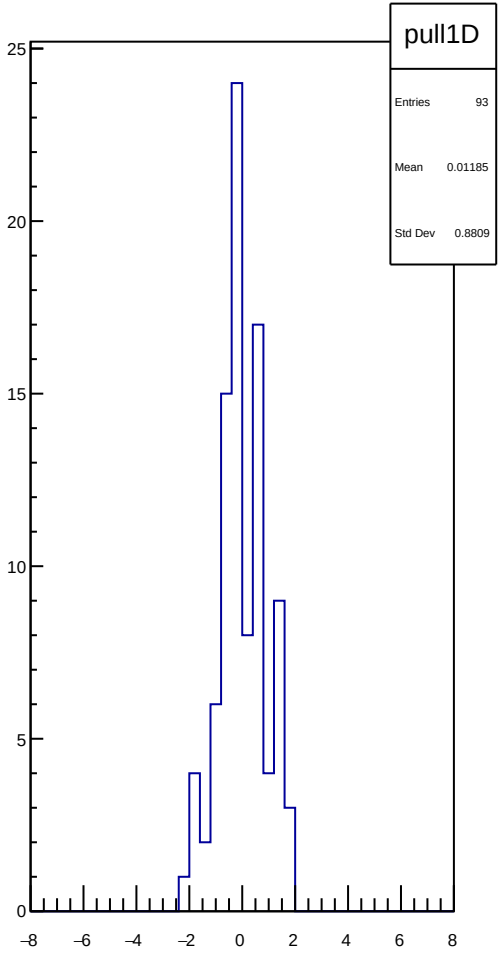

diff_targ_positionX_rms vs run
χ² / ndf 5506 / 92
p0 2.578e+04 ± 18.97
30000
29000
28000
27000
26000
25000
24000
23000
22000

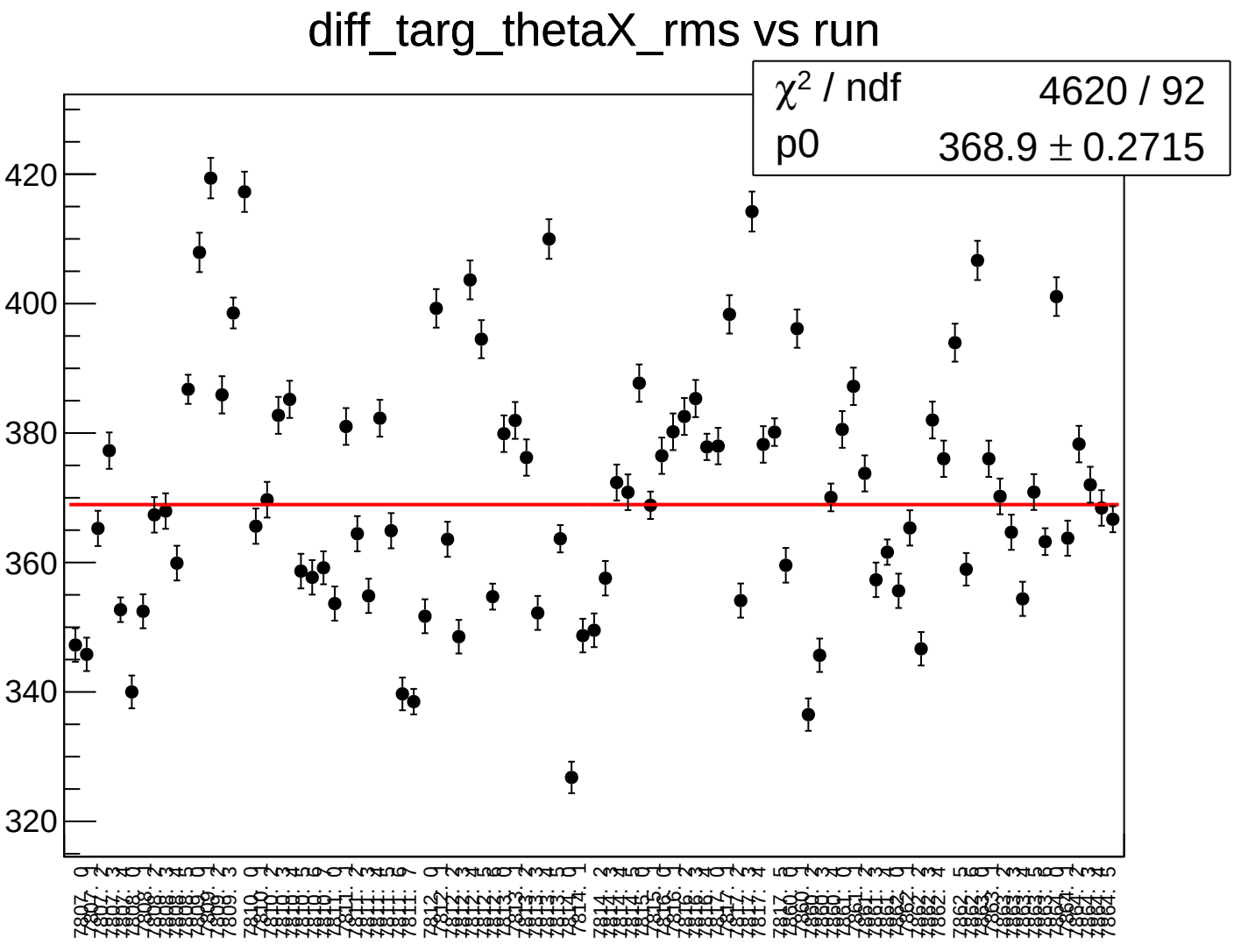

diff_targ_positionY_mean vs run
χ² / ndf 100 / 92
p0 1.41 ± 5.207
pull
Entries 93
Mean −30.33
Std Dev 0

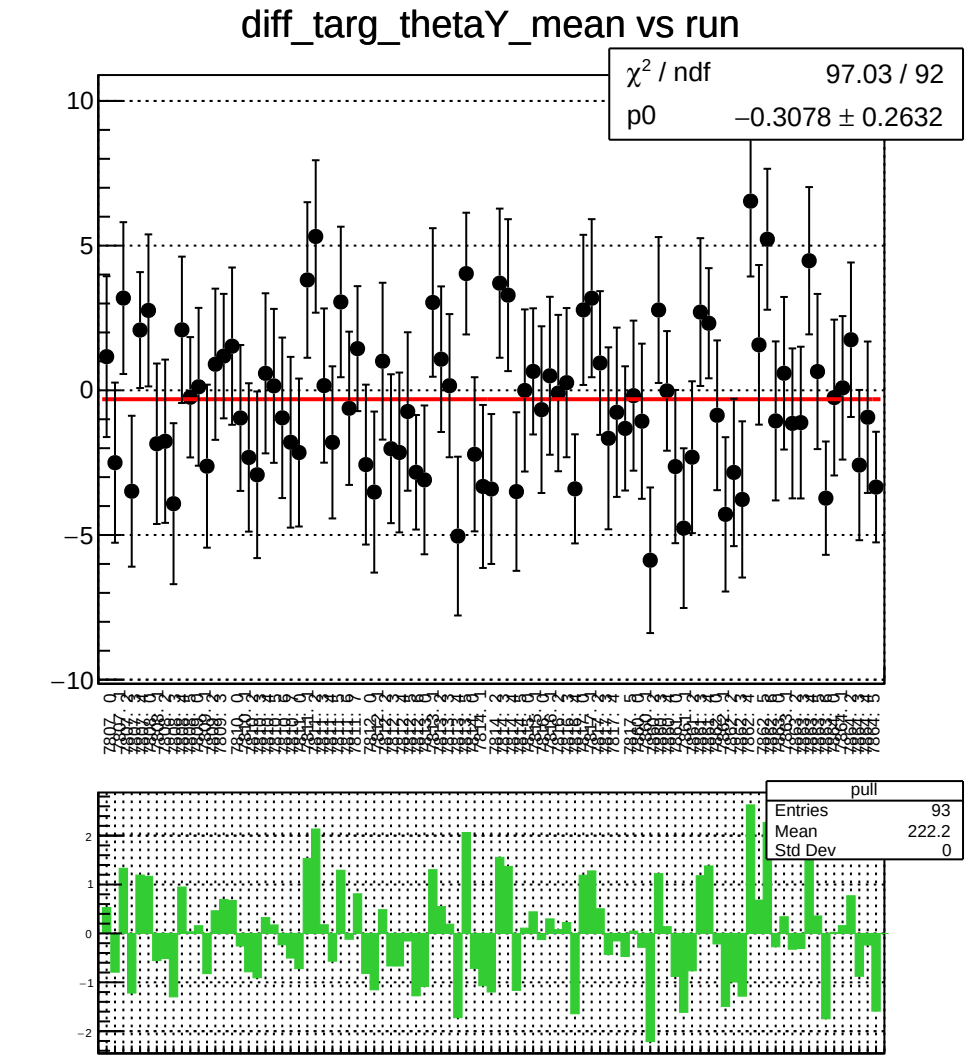

pull1D
Entries 93
Mean 0.02096
Std Dev 1.037

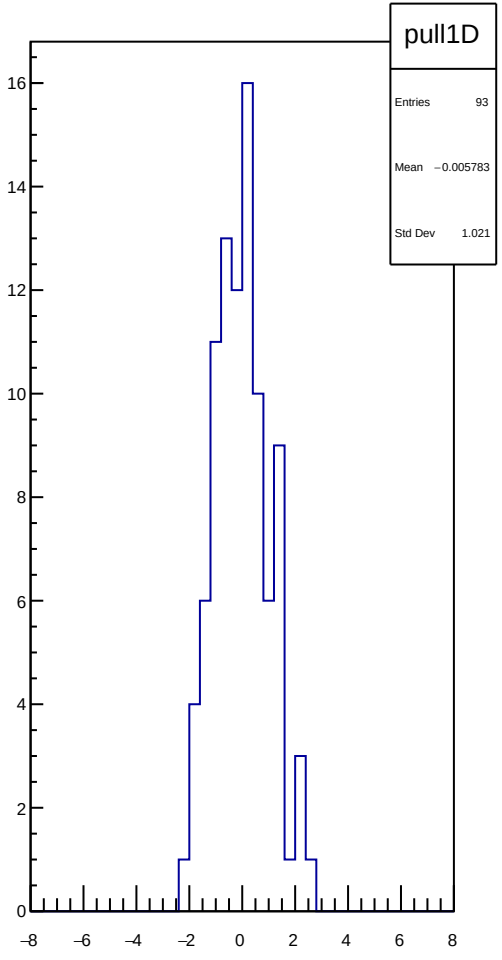

diff_targ_positionY_rms vs run
χ² / ndf 9487 / 92
p0 4997 ± 3.682
6500
6000
5500
5000
4500
4000

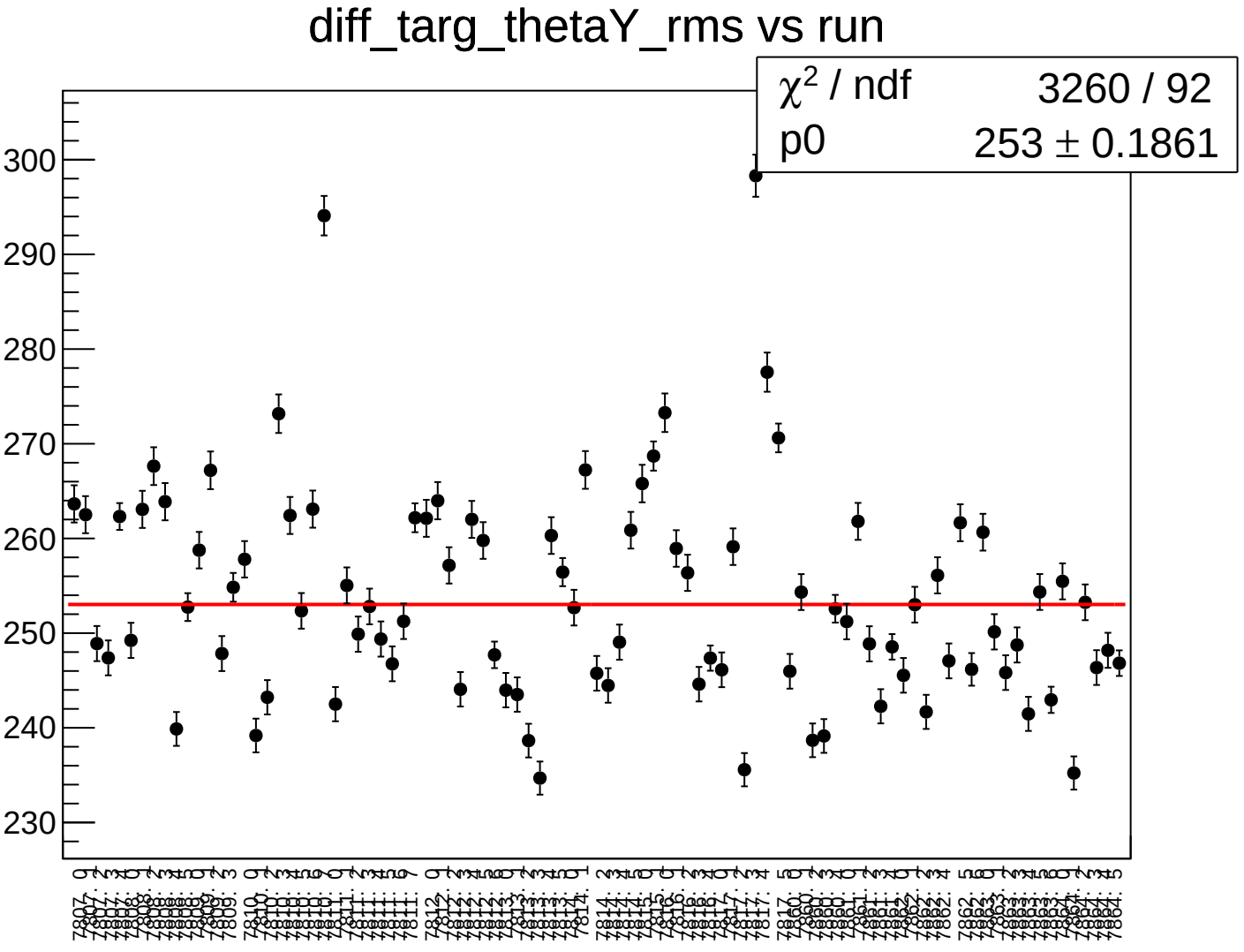

diff_targ_thetaX_mean vs run
χ² / ndf 72.18 / 92
p0 0.202 ± 0.3839
pull
Entries 93
Mean −22.69
Std Dev 0

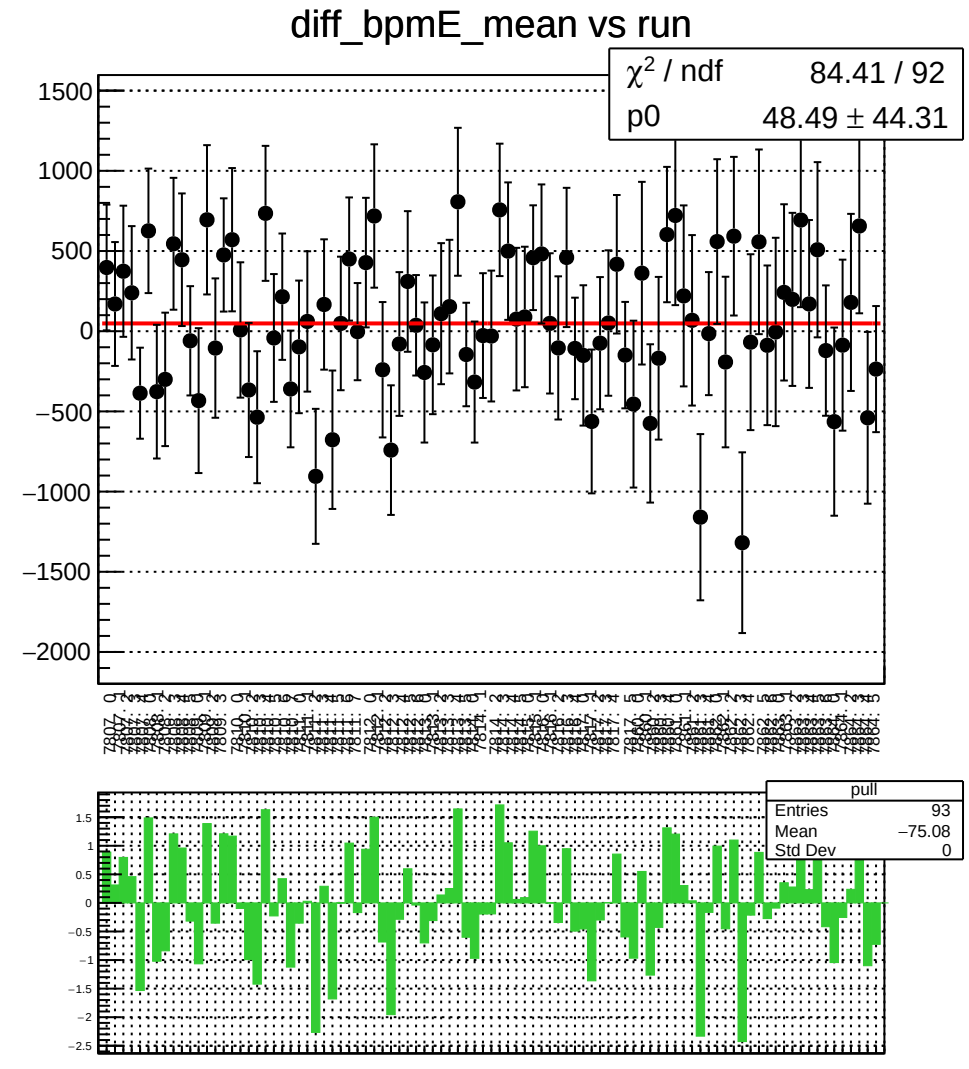

pull1D
Entries 93
Mean 0.01185
Std Dev 0.8809

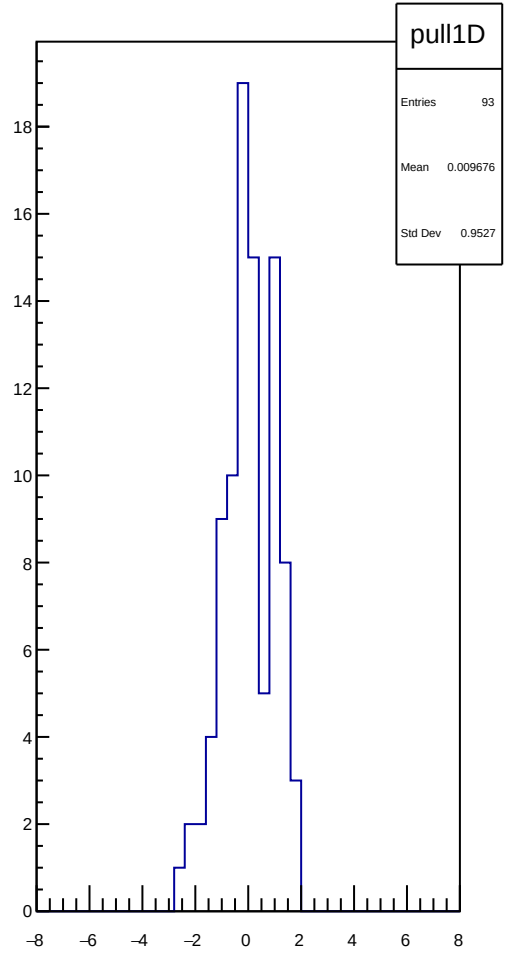

diff_targ_thetaX_rms vs run
χ² / ndf 4620 / 92
p0 368.9 ± 0.2715
420
400
380
360
340
320

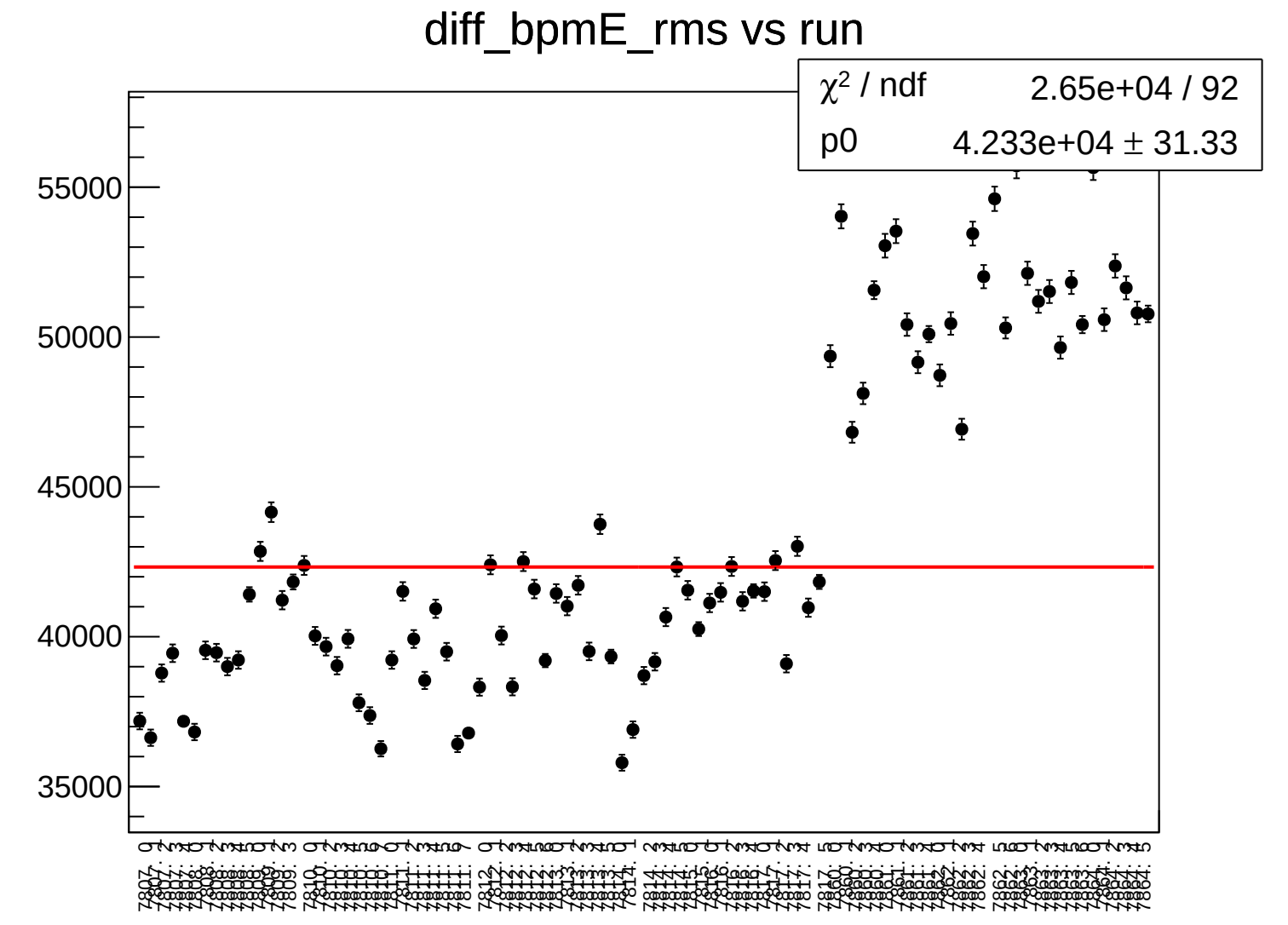

diff_targ_thetaY_mean vs run
χ² / ndf 97.03 / 92
p0 −0.3078 ± 0.2632
pull
Entries 93
Mean 222.2
Std Dev 0

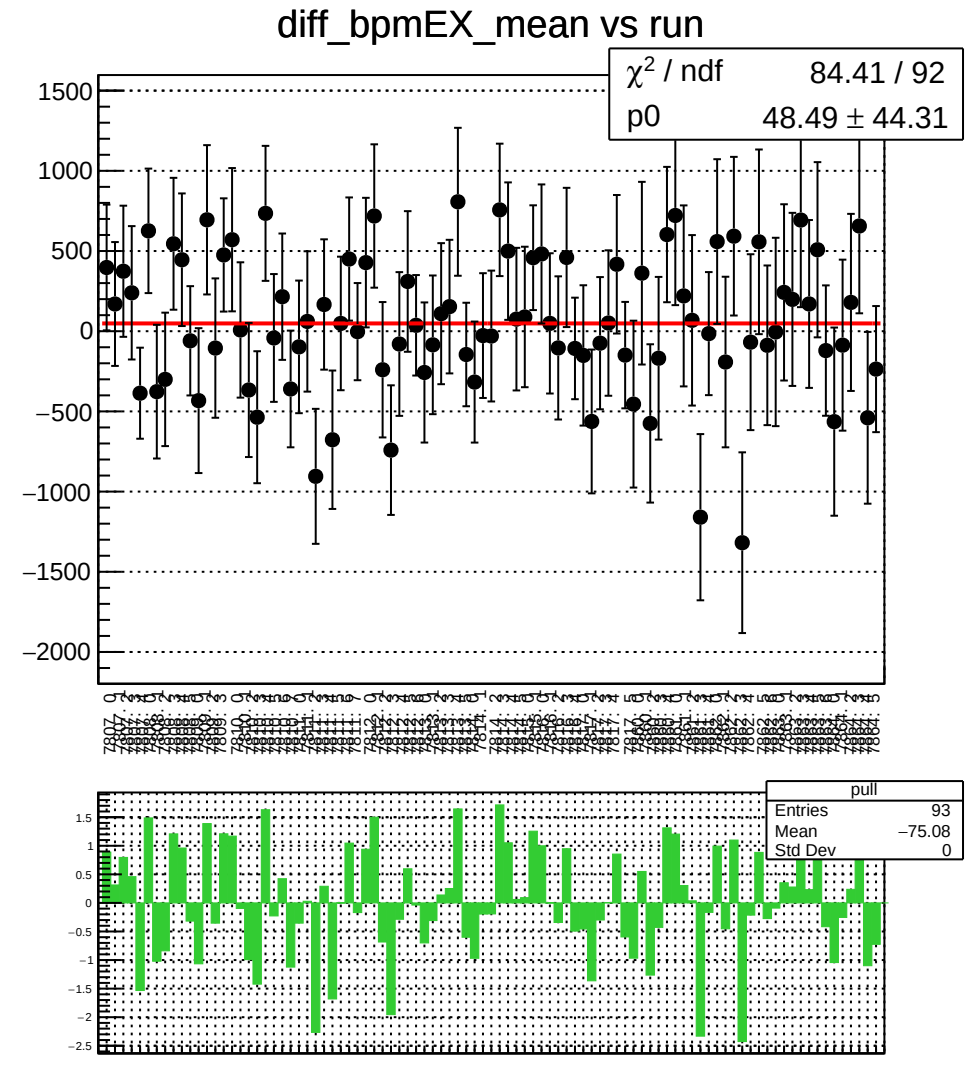

pull1D
Entries 93
Mean −0.005783
Std Dev 1.021

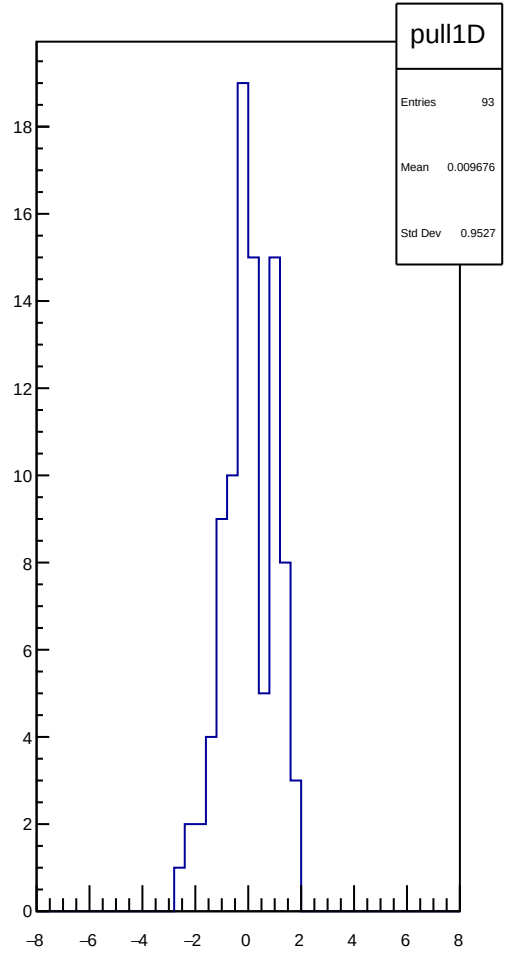

diff_targ_thetaY_rms vs run
χ² / ndf 3260 / 92
p0 253 ± 0.1861
300
290
280
270
260
250
240
230

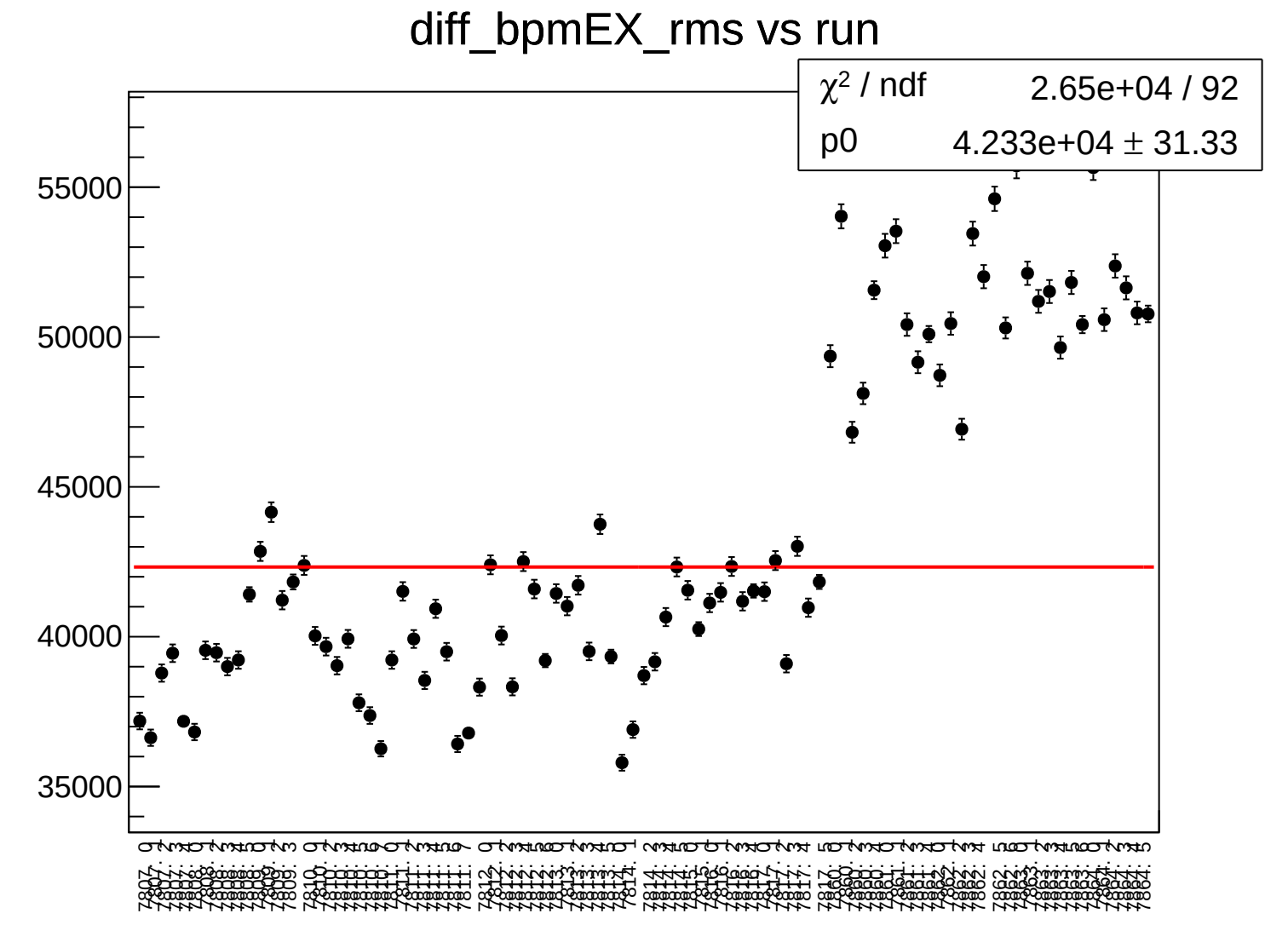

diff_bpmE_mean vs run
χ² / ndf 84.41 / 92
p0 48.49 ± 44.31
pull
Entries 93
Mean −75.08
Std Dev 0

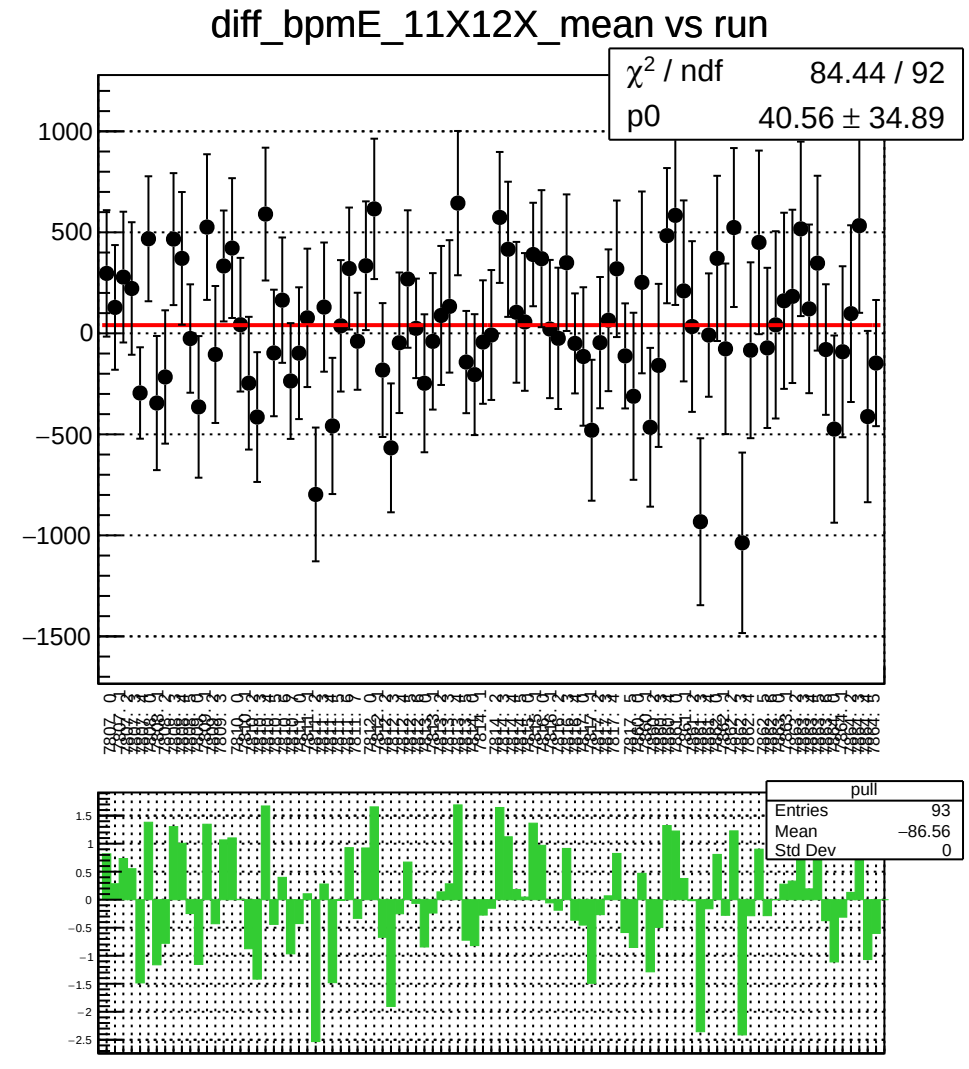

pull1D
Entries 93
Mean 0.009676
Std Dev 0.9527

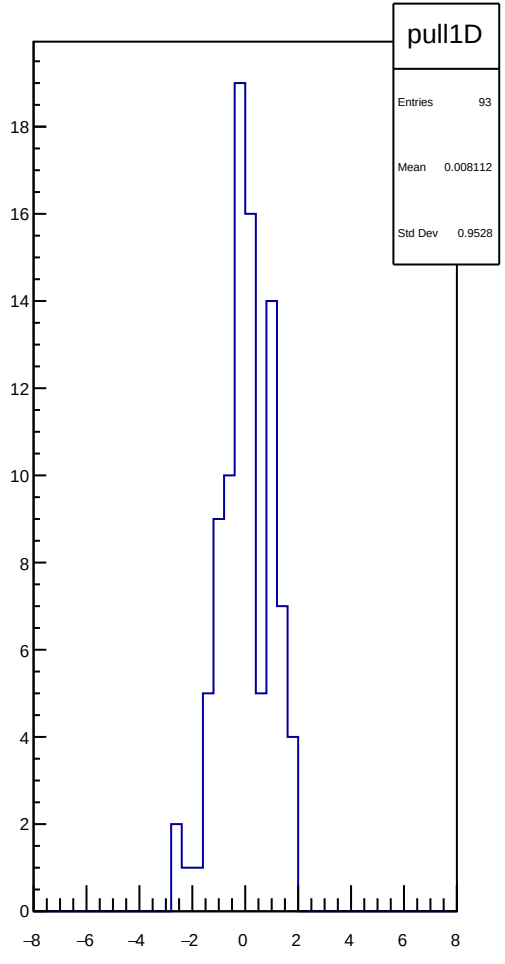

diff_bpmE_rms vs run
χ² / ndf 2.65e+04 / 92
p0 4.233e+04 ± 31.33
55000
50000
45000
40000
35000

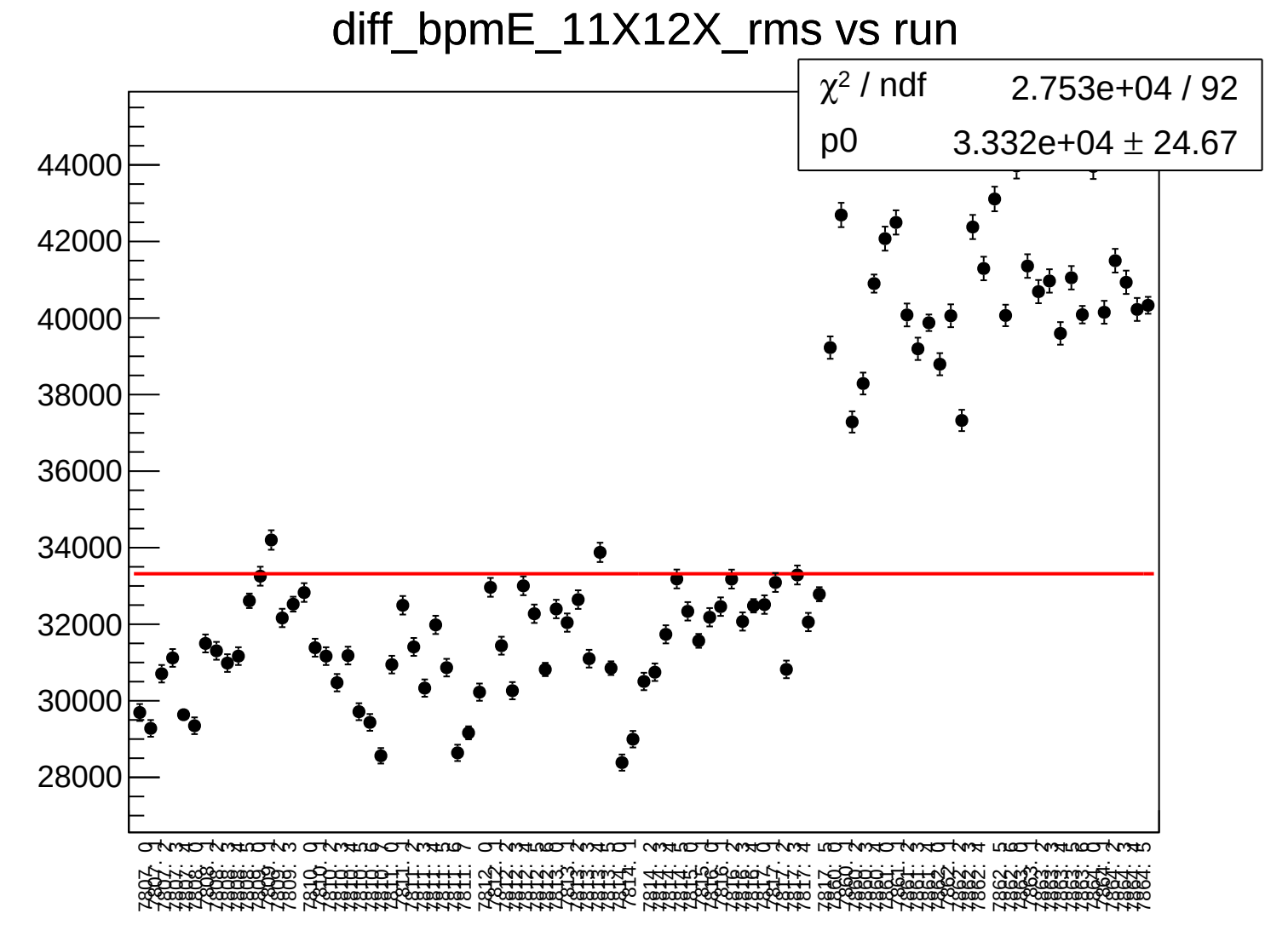

diff_bpmEX_mean vs run
χ² / ndf 84.41 / 92
p0 48.49 ± 44.31
pull
Entries 93
Mean −75.08
Std Dev 0

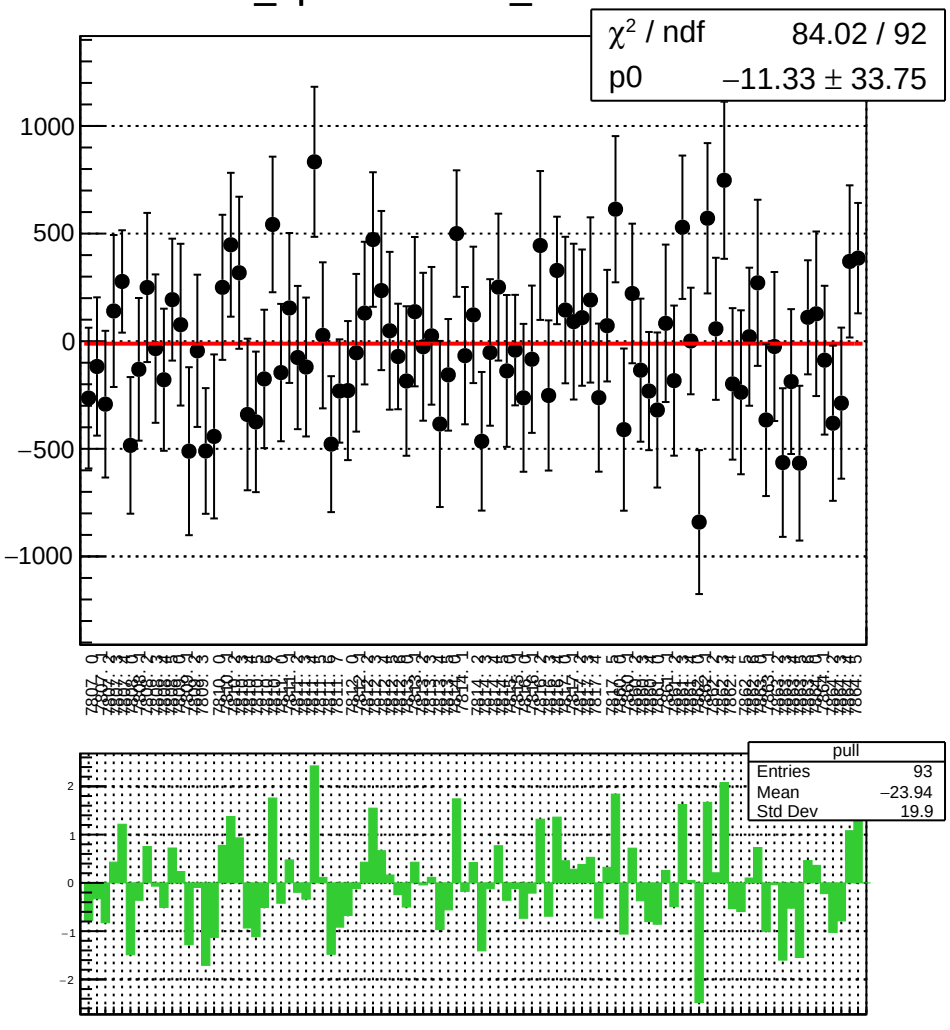

pull1D
Entries 93
Mean 0.009676
Std Dev 0.9527

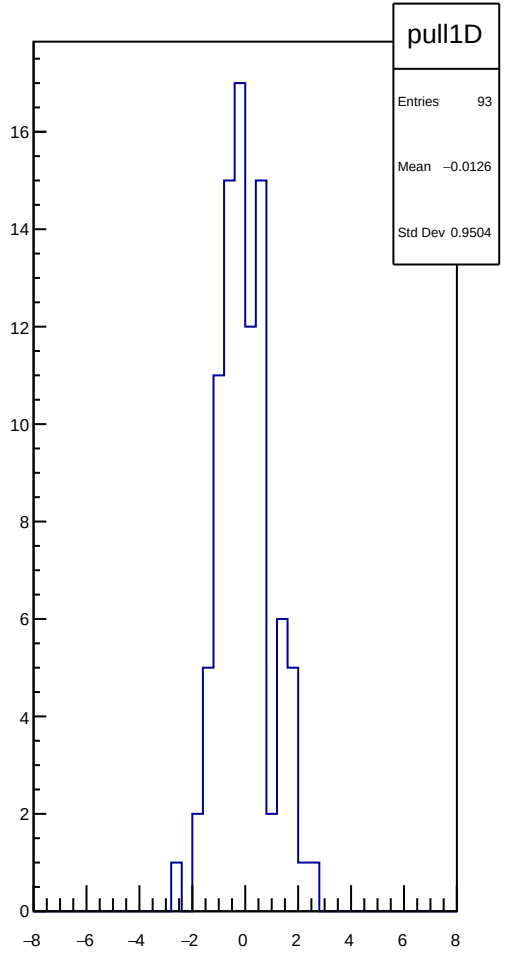

diff_bpmEX_rms vs run
χ² / ndf 2.65e+04 / 92
p0 4.233e+04 ± 31.33
55000
50000
45000
40000
35000

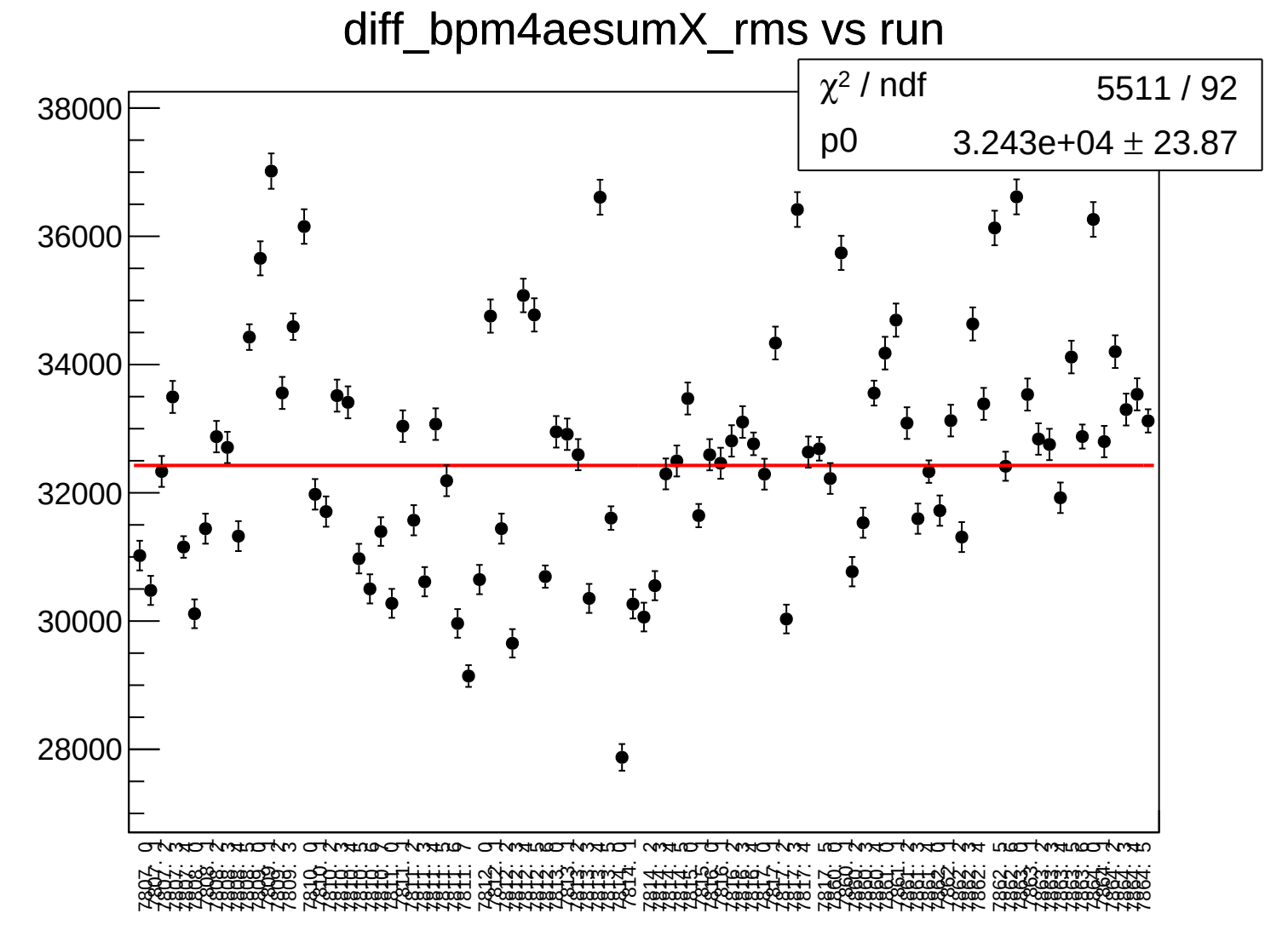

diff_bpmE_11X12X_mean vs run
χ² / ndf 84.44 / 92
p0 40.56 ± 34.89
1000
500
0
−500
−1000
−1500
pull
Entries 93
Mean −86.56
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

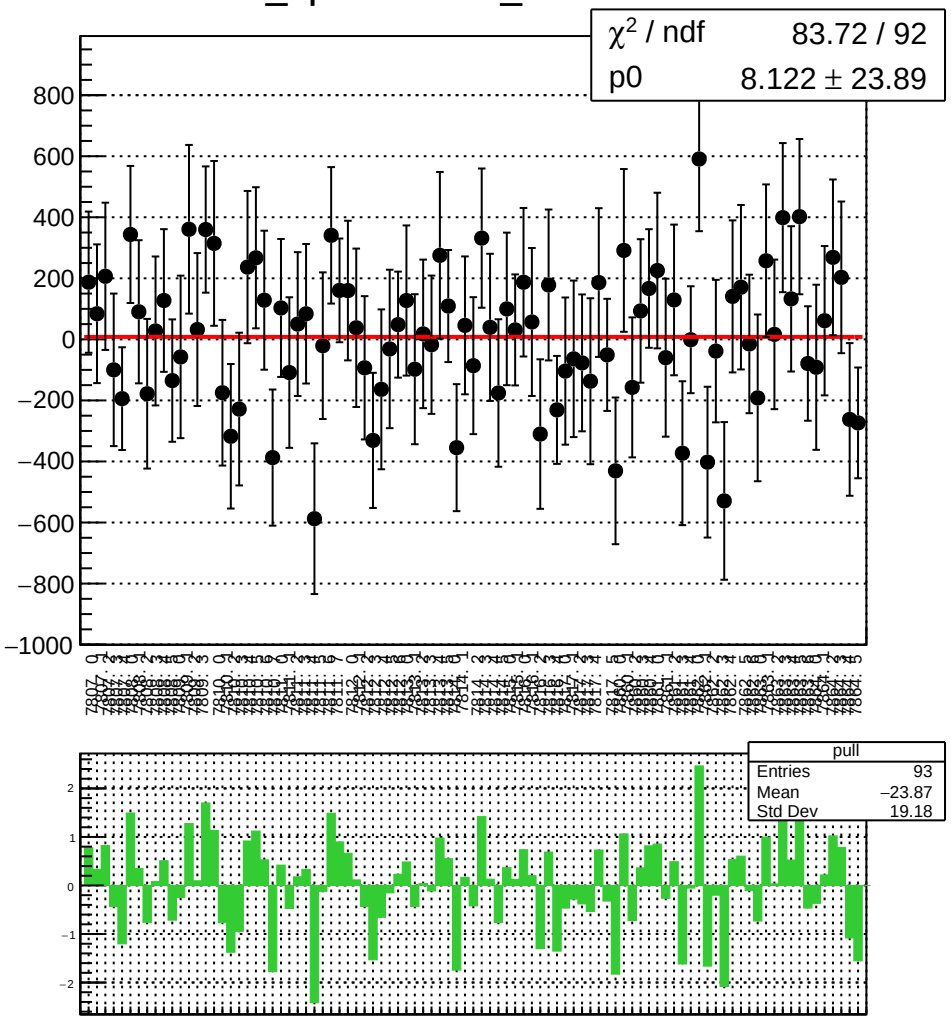

pull1D
Entries 93
Mean 0.008112
Std Dev 0.9528
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

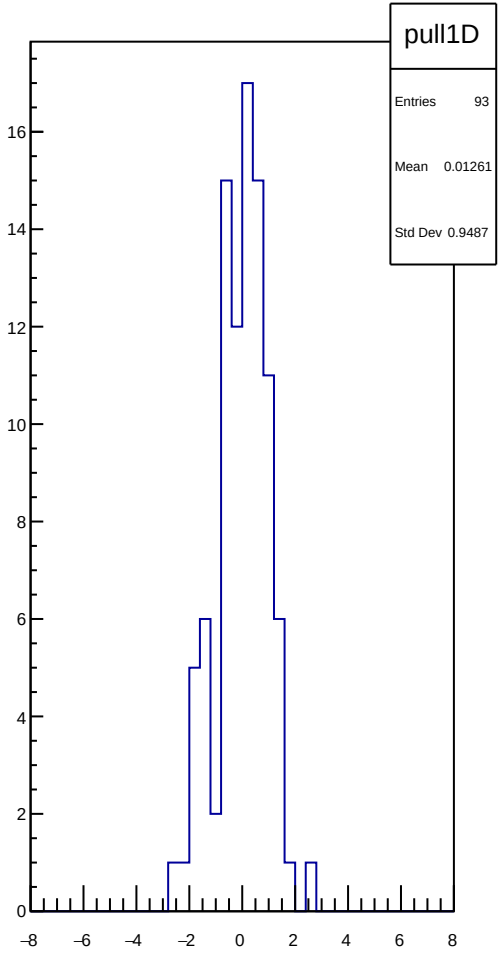

diff_bpmE_11X12X_rms vs run
χ² / ndf 2.753e+04 / 92
p0 3.332e+04 ± 24.67
44000
42000
40000
38000
36000
34000
32000
30000
28000

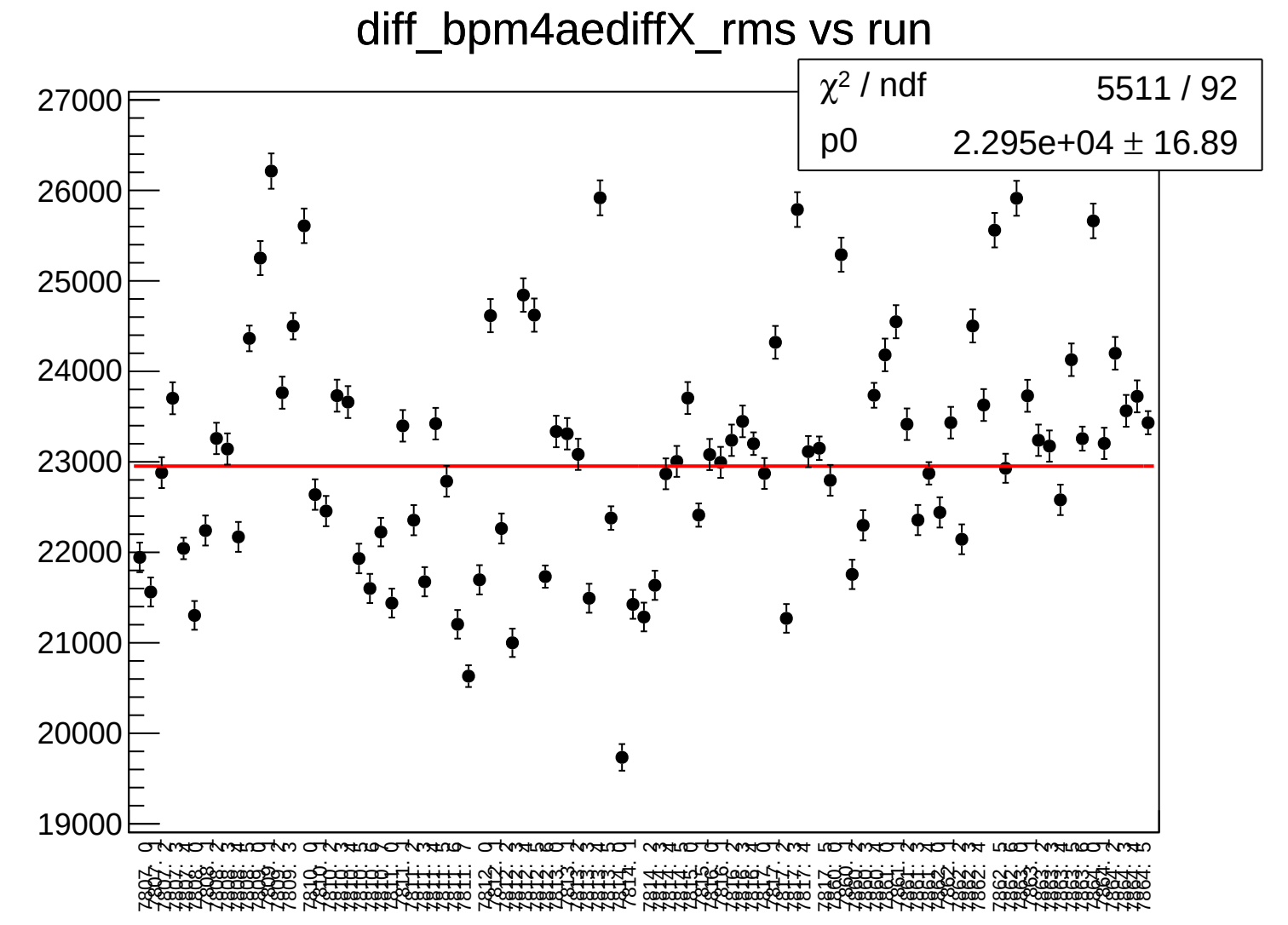

diff_bpm4aesumX_mean vs run
χ² / ndf 84.02 / 92
p0 −11.33 ± 33.75
1000
500
0
−500
−1000
pull
Entries 93
Mean −23.94
Std Dev 19.9
2
1
0
−1
−2

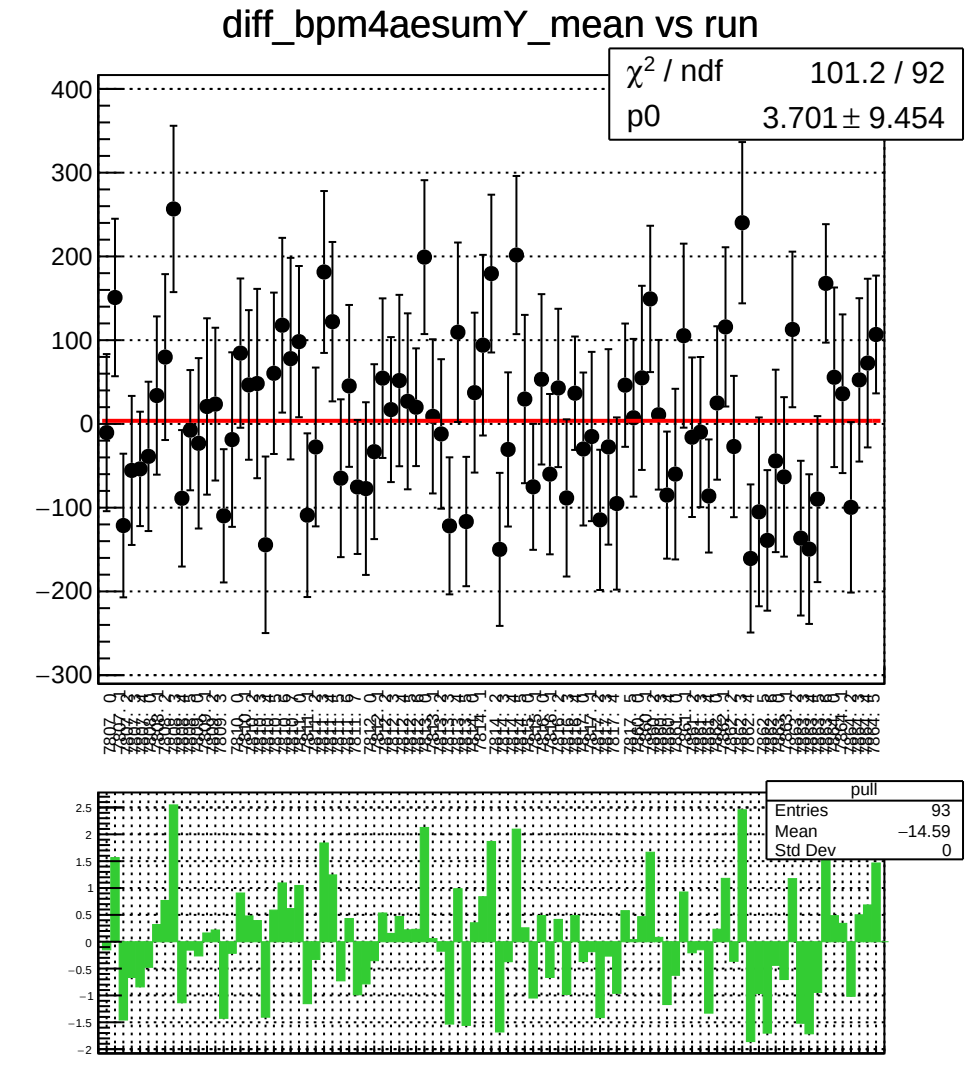

pull1D
Entries 93
Mean −0.0126
Std Dev 0.9504
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

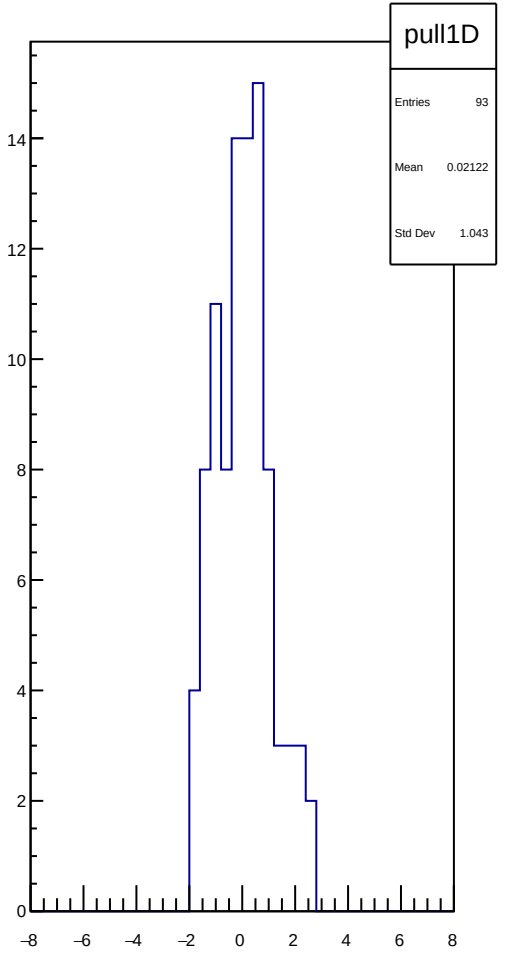

diff_bpm4aesumX_rms vs run
χ² / ndf 5511 / 92
p0 3.243e+04 ± 23.87
38000
36000
34000
32000
30000
28000


diff_bpm4aediffX_mean vs run
χ² / ndf 83.72 / 92
p0 8.122 ± 23.89
pull
Entries 93
Mean −23.87
Std Dev 19.18

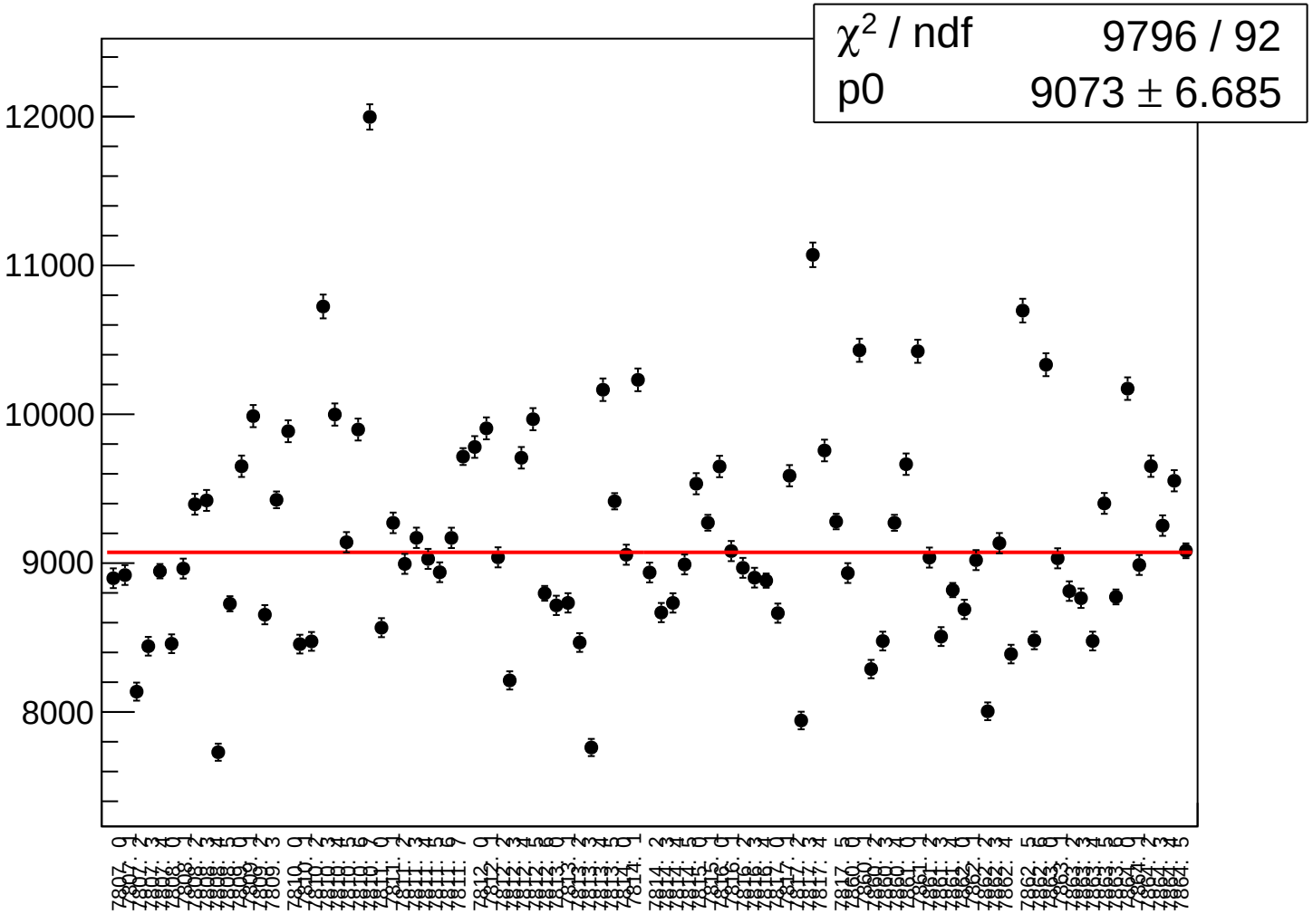

pull1D
Entries 93
Mean 0.01261
Std Dev 0.9487

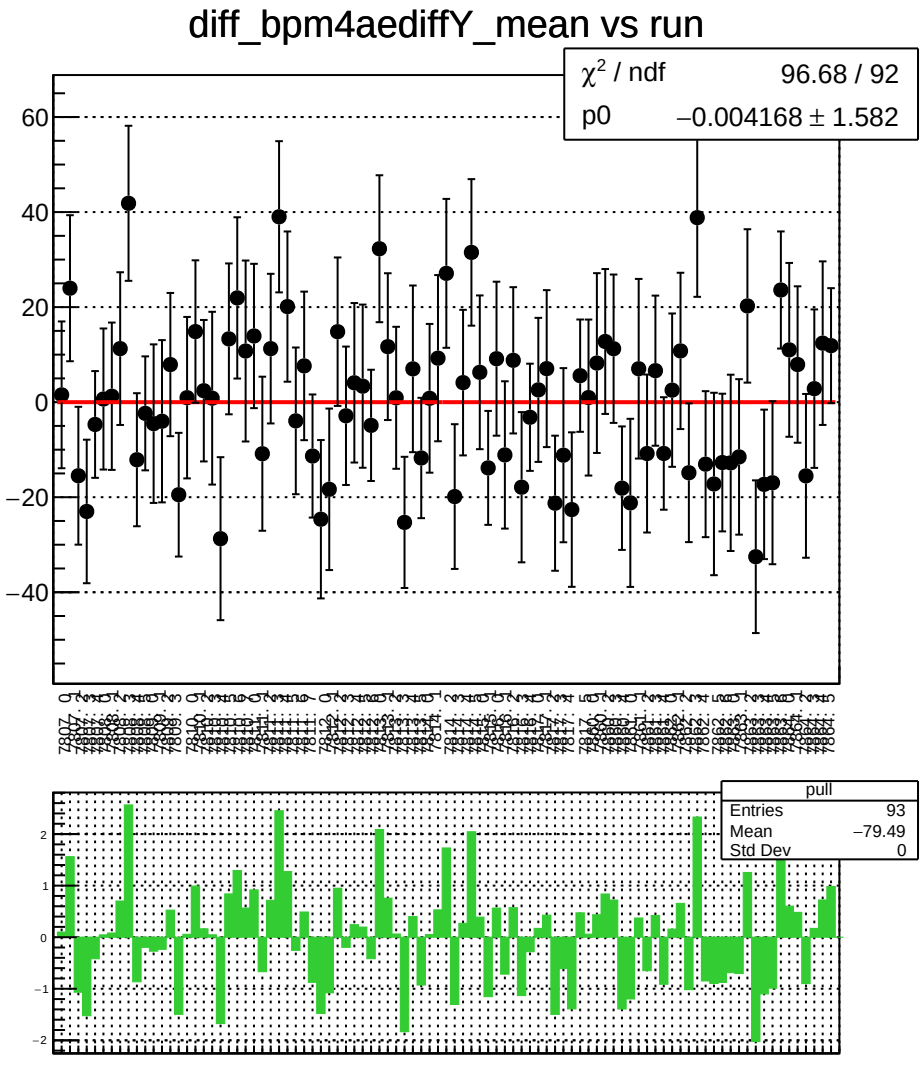

diff_bpm4aediffX_rms vs run
χ² / ndf 5511 / 92
p0 2.295e+04 ± 16.89
27000
26000
25000
24000
23000
22000
21000
20000
19000

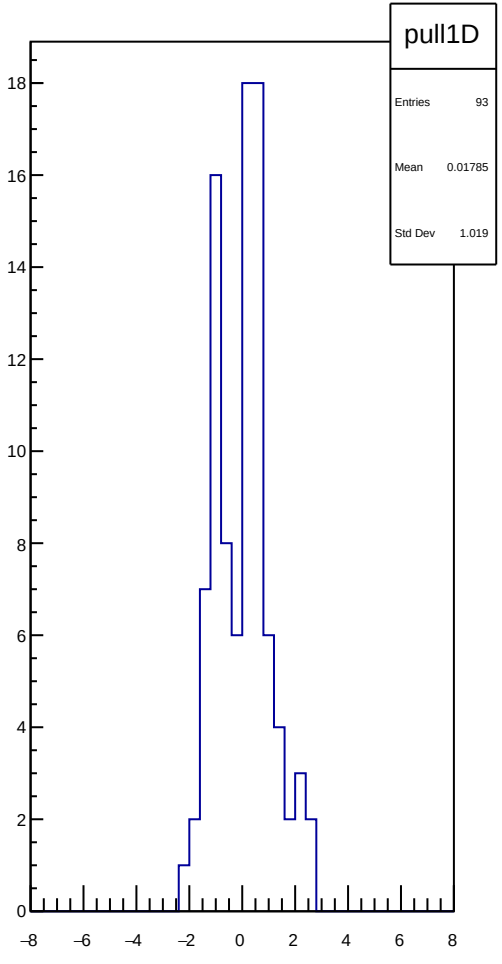

diff_bpm4aesumY_mean vs run
χ² / ndf 101.2 / 92
p0 3.701 ± 9.454
pull
Entries 93
Mean −14.59
Std Dev 0

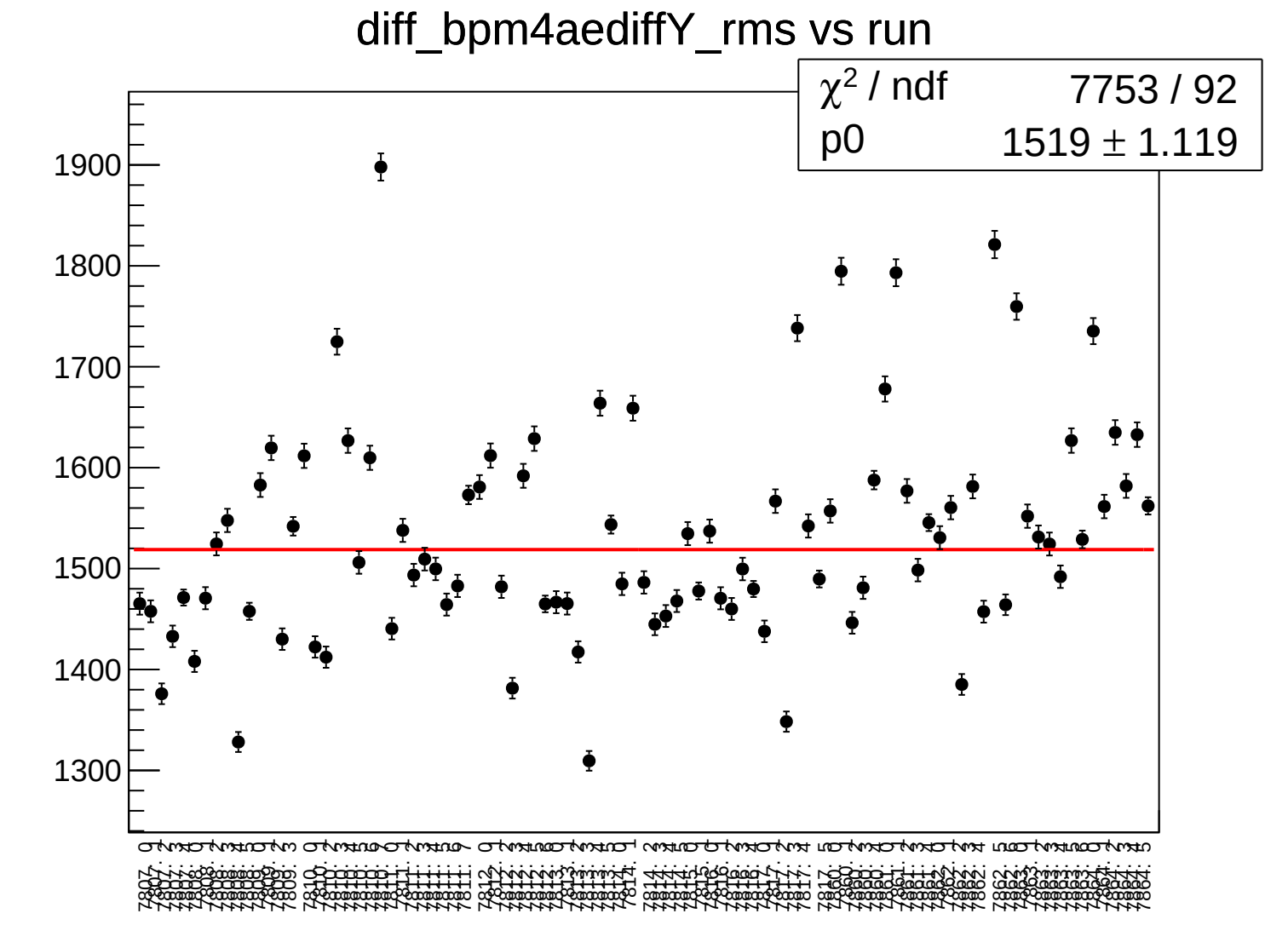

pull1D
Entries 93
Mean 0.02122
Std Dev 1.043

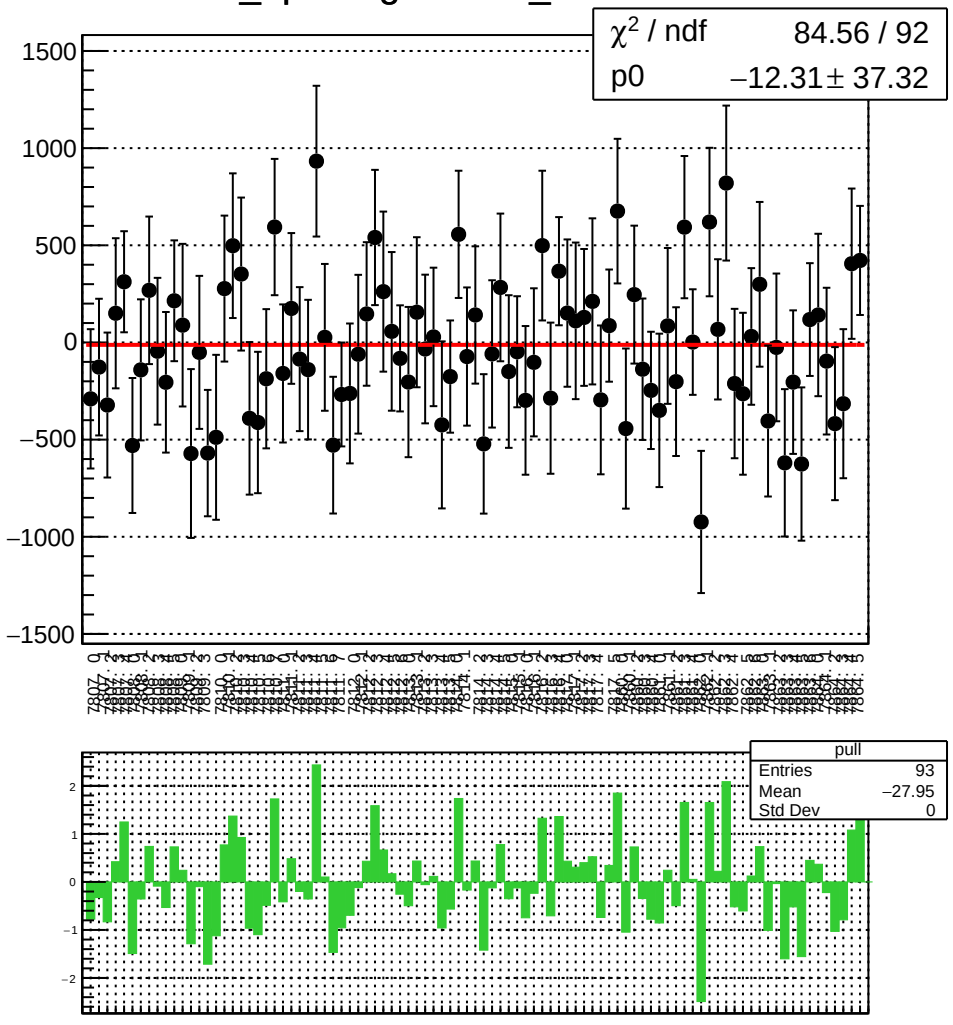
diff_bpm4aesumY_rms vs run

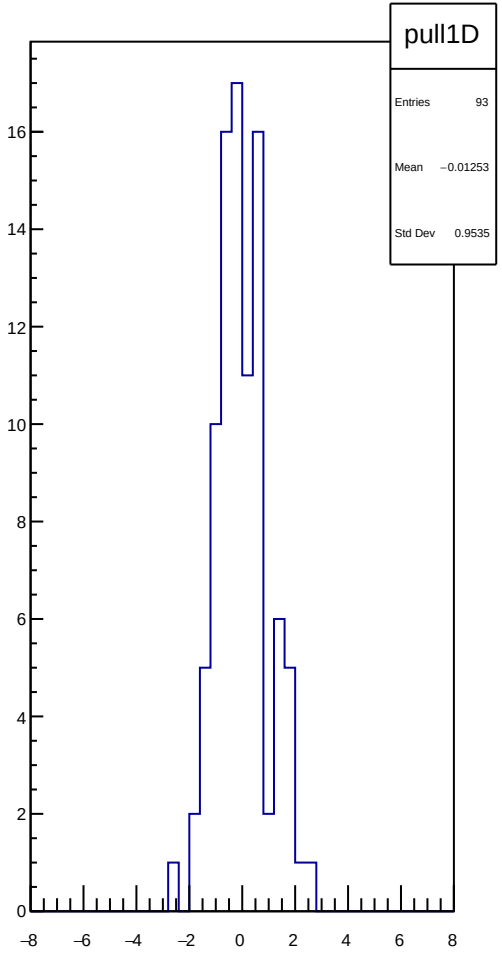


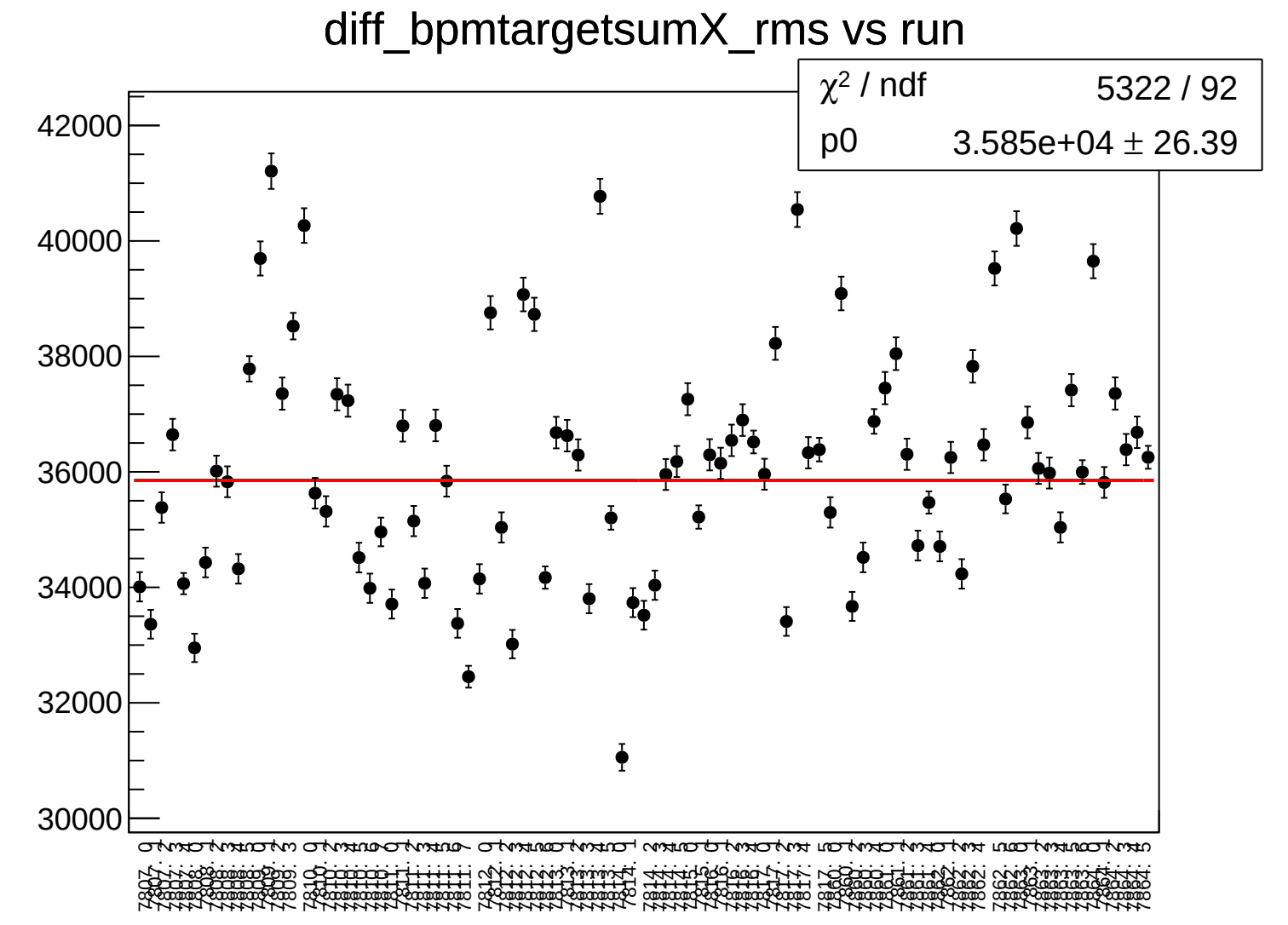

diff_bpm4aediffY_mean vs run
χ^2 / ndf 96.68 / 92
p0 −0.004168 ± 1.582
pull
Entries 93
Mean −79.49
Std Dev 0

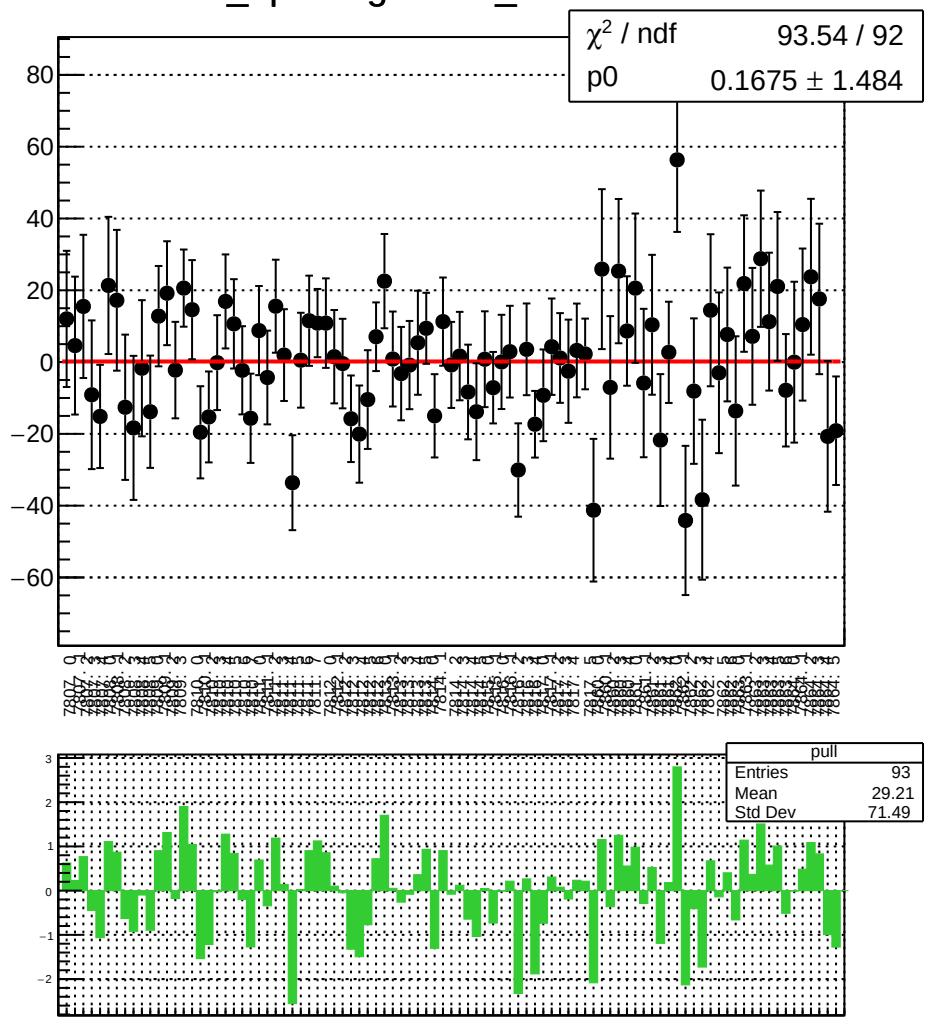

pull1D
Entries 93
Mean 0.01785
Std Dev 1.019

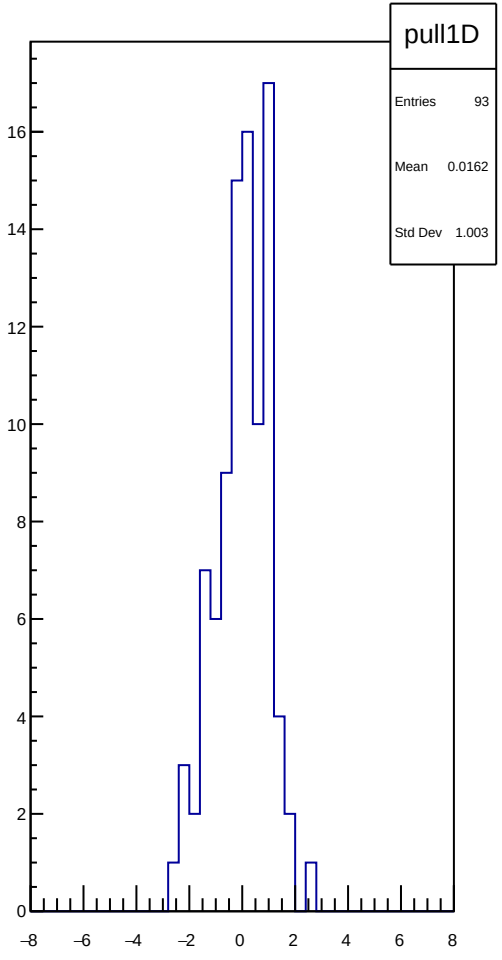

diff_bpm4aediffY_rms vs run
χ² / ndf 7753 / 92
p0 1519 ± 1.119
1900
1800
1700
1600
1500
1400
1300

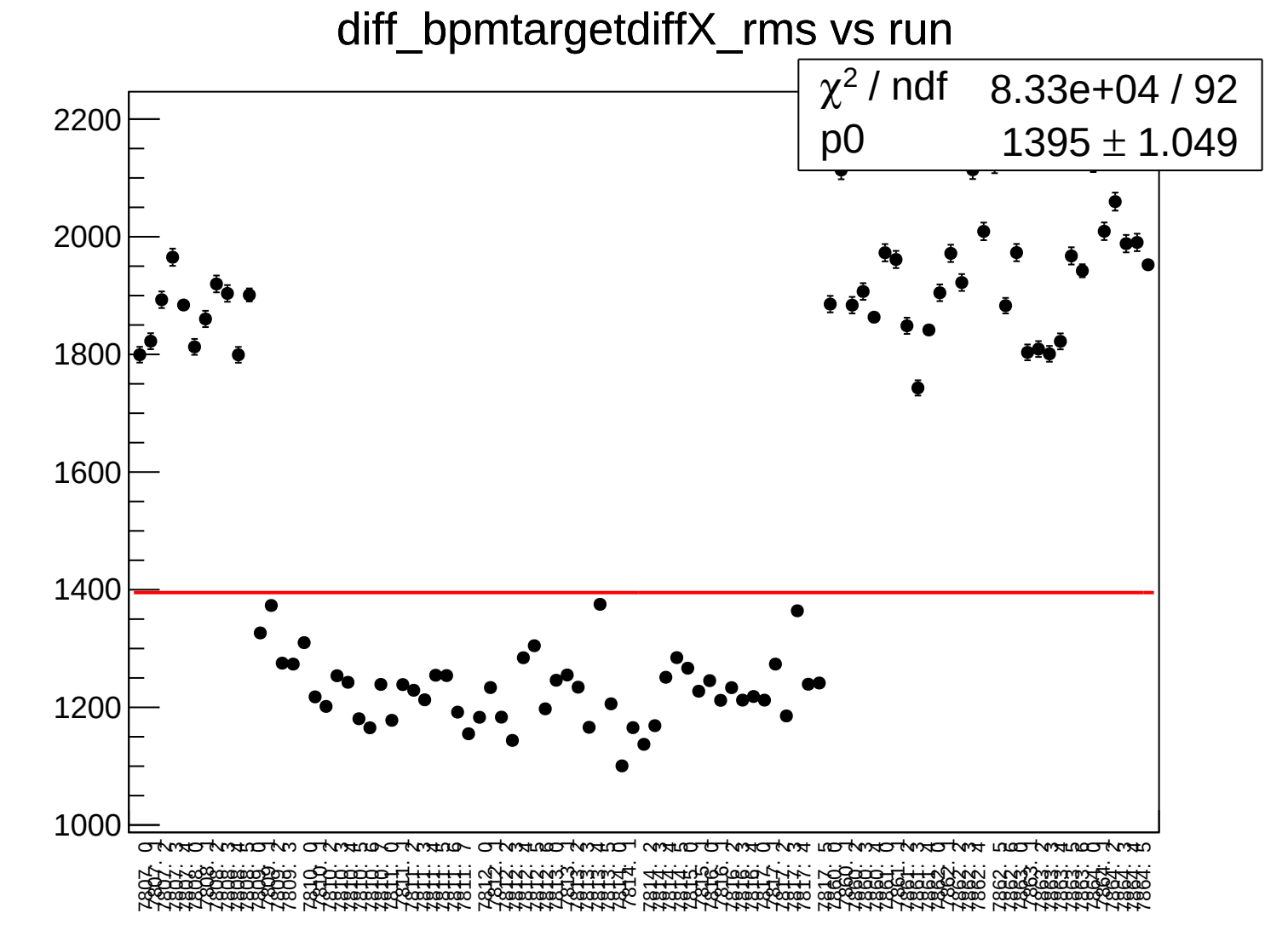

diff_bpmtargetsumX_mean vs run
χ² / ndf 84.56 / 92
p0 −12.31 ± 37.32
1500
1000
500
0
−500
−1000
−1500
pull
Entries 93
Mean −27.95
Std Dev 0
2
1
0
−1
−2

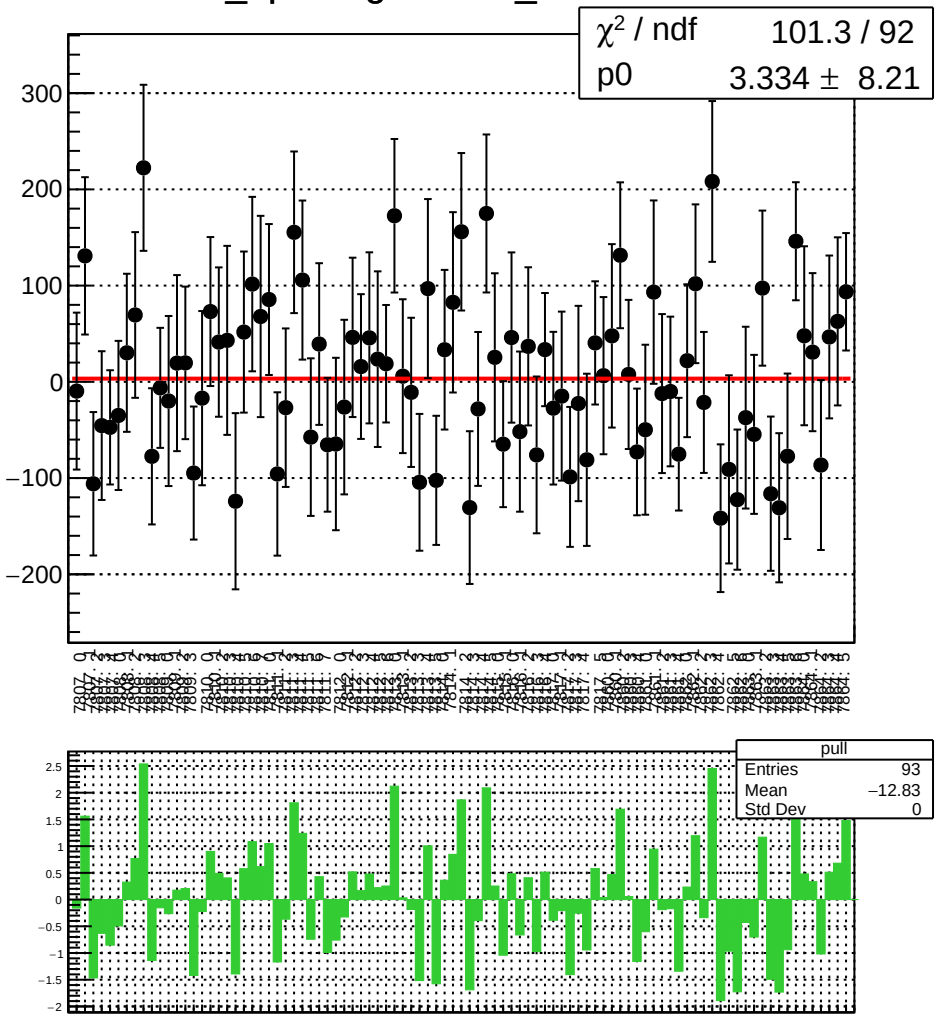

pull1D
Entries 93
Mean −0.01253
Std Dev 0.9535
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

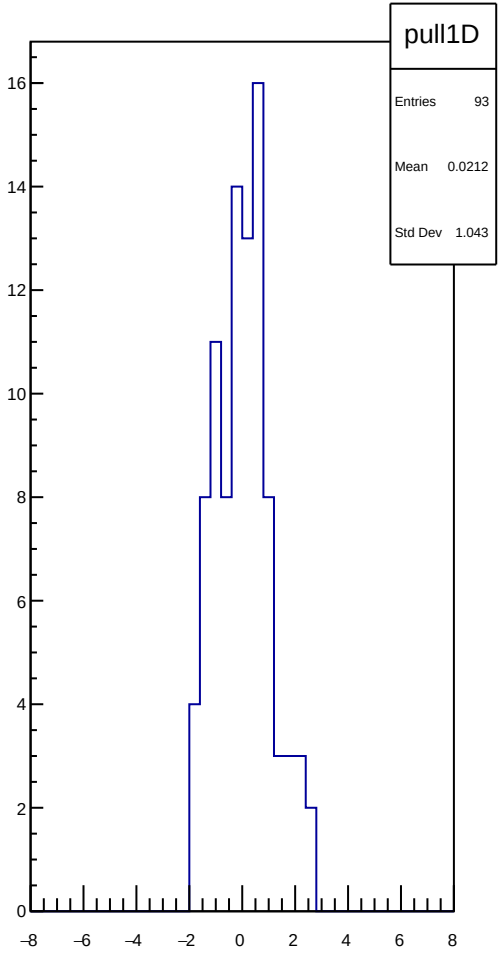

diff_bpmtargetsumX_rms vs run
χ² / ndf 5322 / 92
p0 3.585e+04 ± 26.39
42000
40000
38000
36000
34000
32000
30000

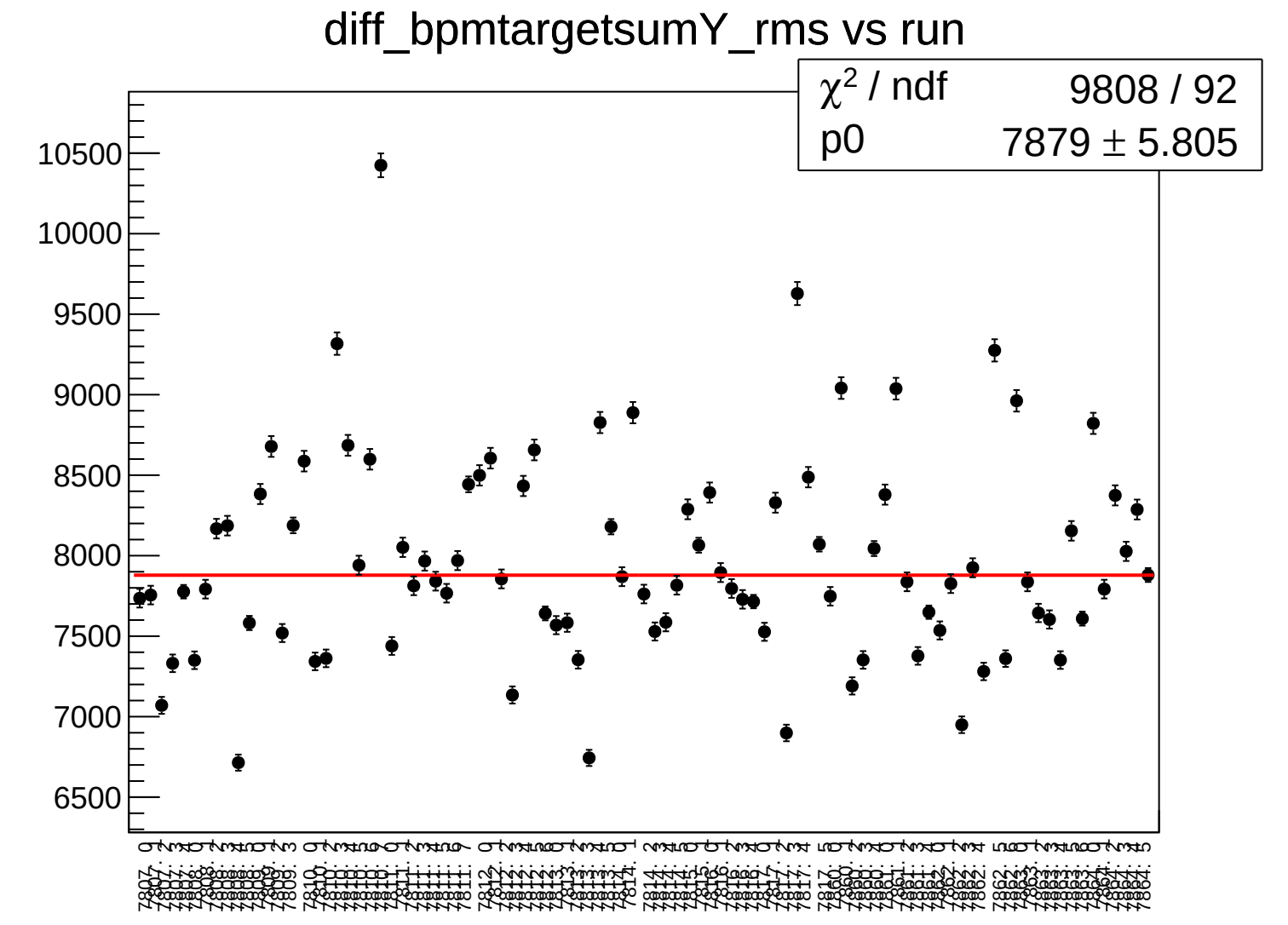

diff_bpmtargetdiffX_mean vs run
χ² / ndf 93.54 / 92
p0 0.1675 ± 1.484
pull
Entries 93
Mean 29.21
Std Dev 71.49

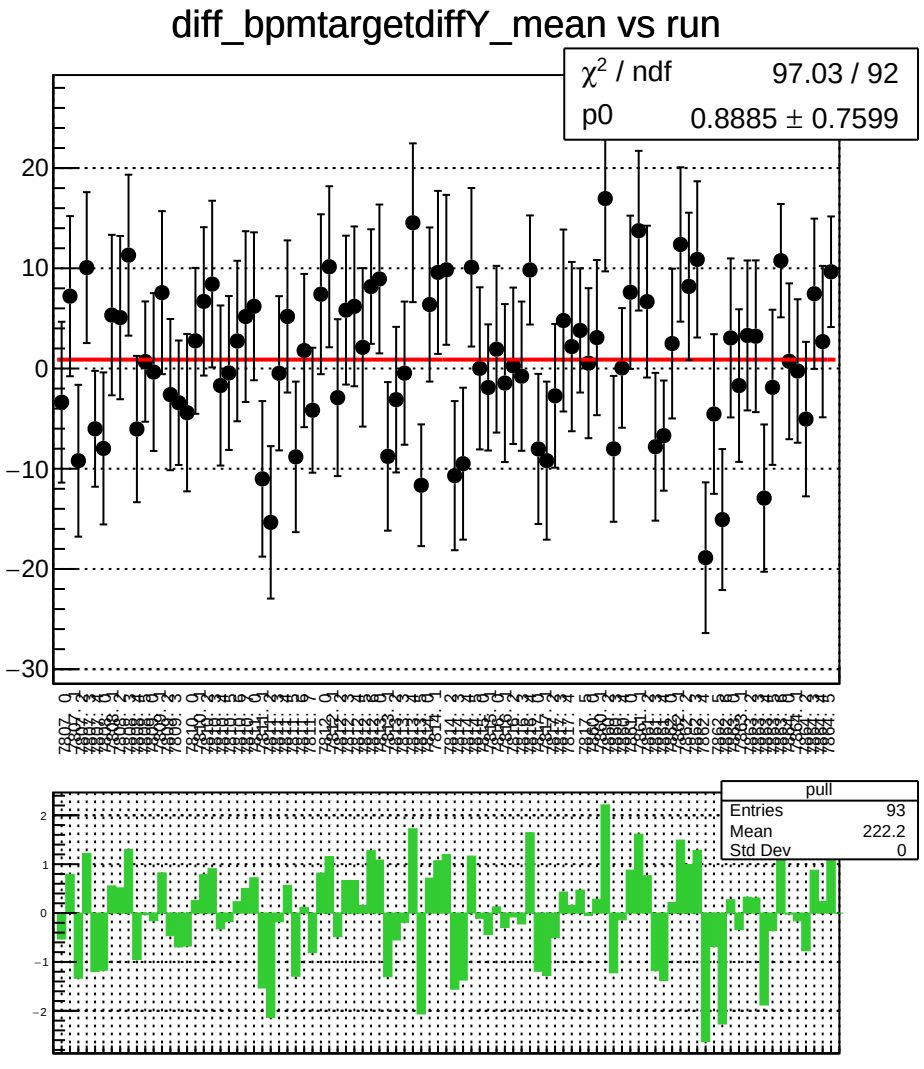

pull1D
Entries 93
Mean 0.0162
Std Dev 1.003

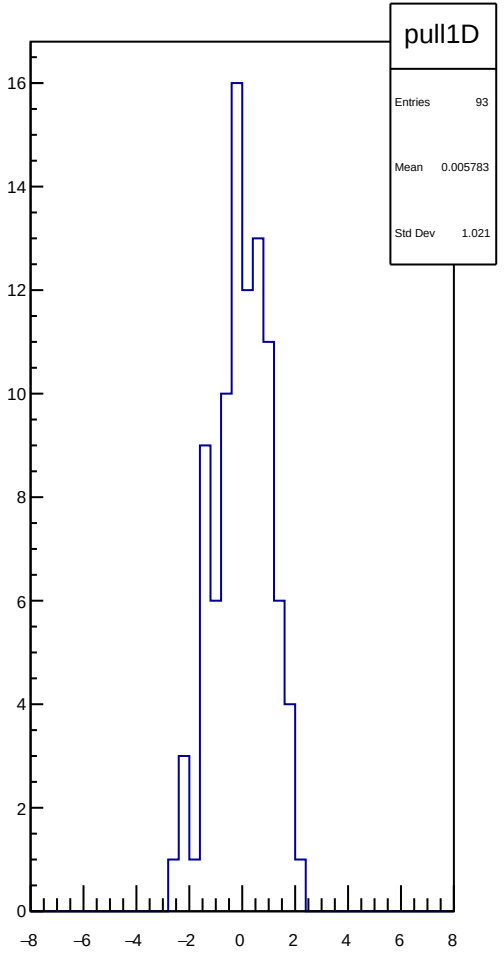

diff_bpmtargetdiffX_rms vs run
χ² / ndf 8.33e+04 / 92
p0 1395 ± 1.049
2200
2000
1800
1600
1400
1200
1000

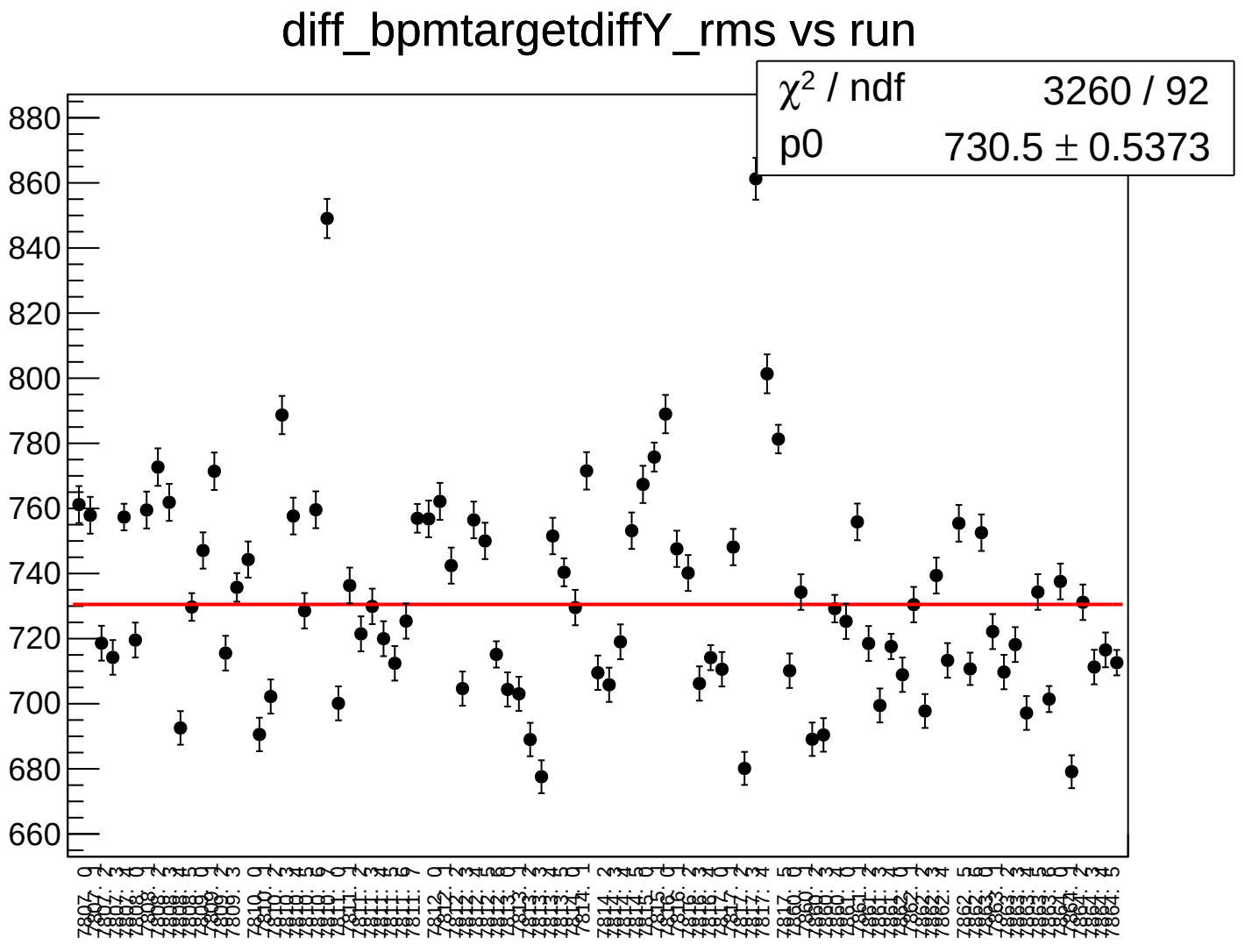

diff_bpmtargetsumY_mean vs run
χ² / ndf 101.3 / 92
p0 3.334 ± 8.21
pull
Entries 93
Mean −12.83
Std Dev 0

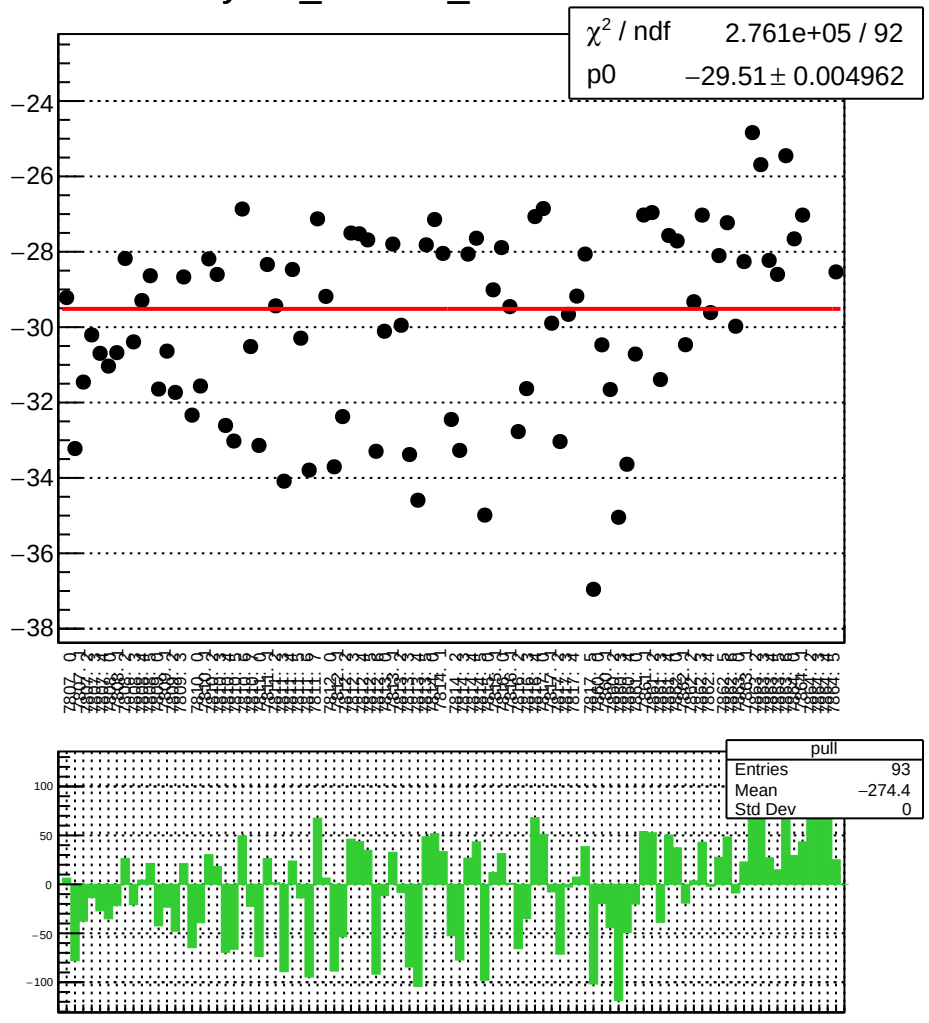

pull1D
Entries 93
Mean 0.0212
Std Dev 1.043

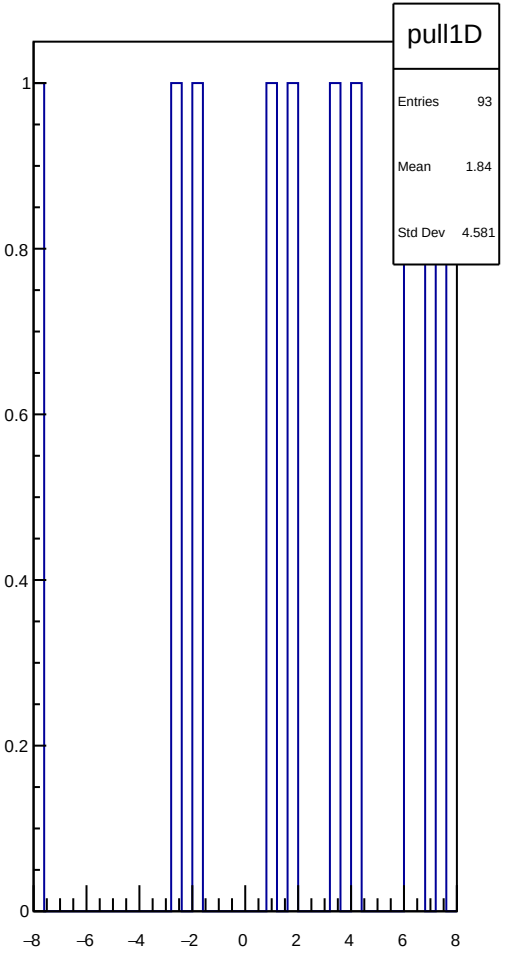

diff_bpmtargetsumY_rms vs run
χ² / ndf 9808 / 92
p0 7879 ± 5.805
10500
10000
9500
9000
8500
8000
7500
7000
6500

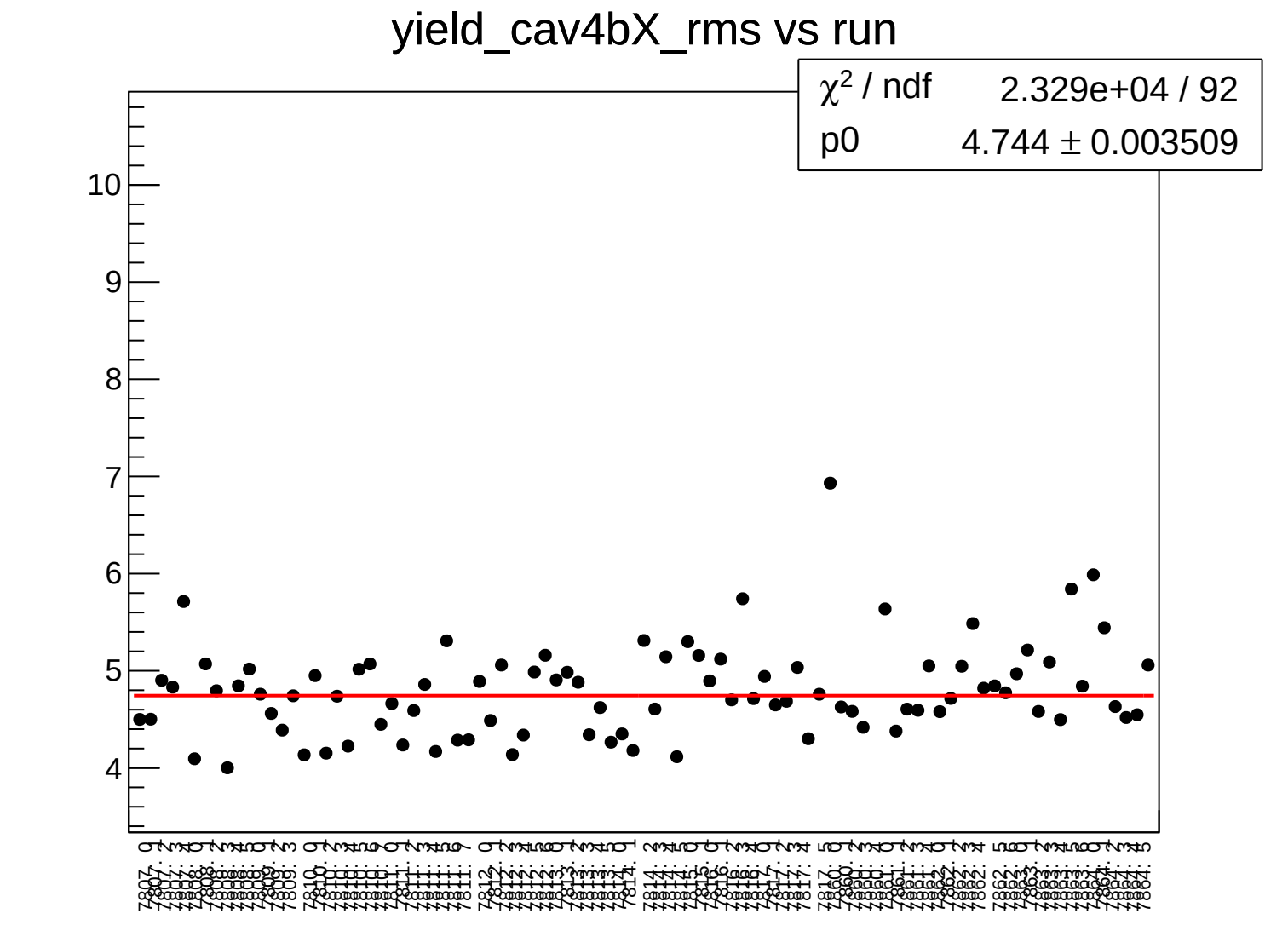

diff_bpmtargetdiffY_mean vs run
χ² / ndf 97.03 / 92
p0 0.8885 ± 0.7599
pull
Entries 93
Mean 222.2
Std Dev 0

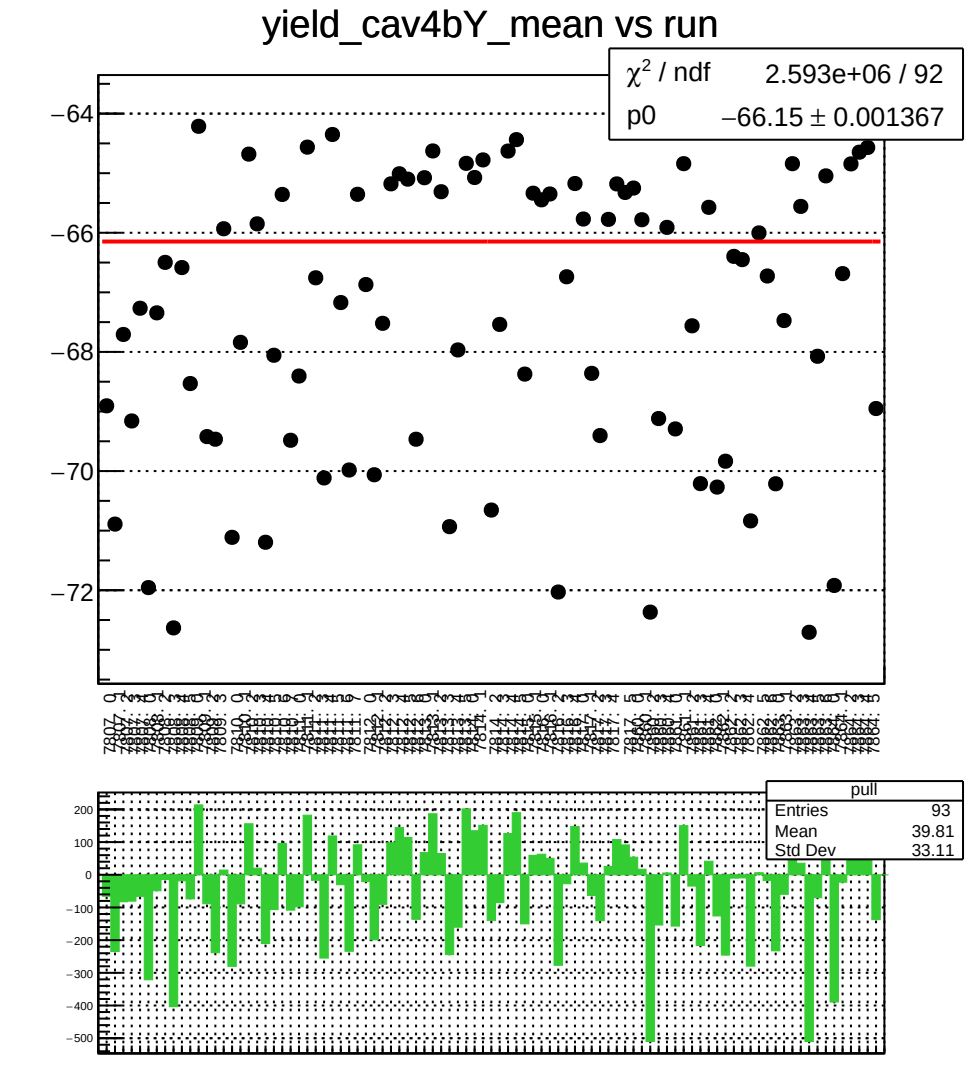

pull1D
Entries 93
Mean 0.005783
Std Dev 1.021

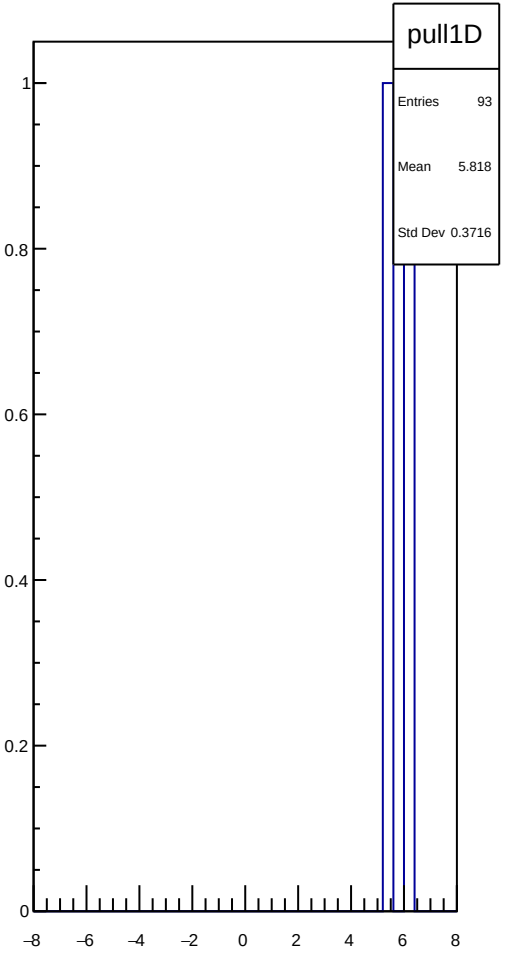

diff_bpmtargetdiffY_rms vs run
χ² / ndf 3260 / 92
p0 730.5 ± 0.5373
880
860
840
820
800
780
760
740
720
700
680
660

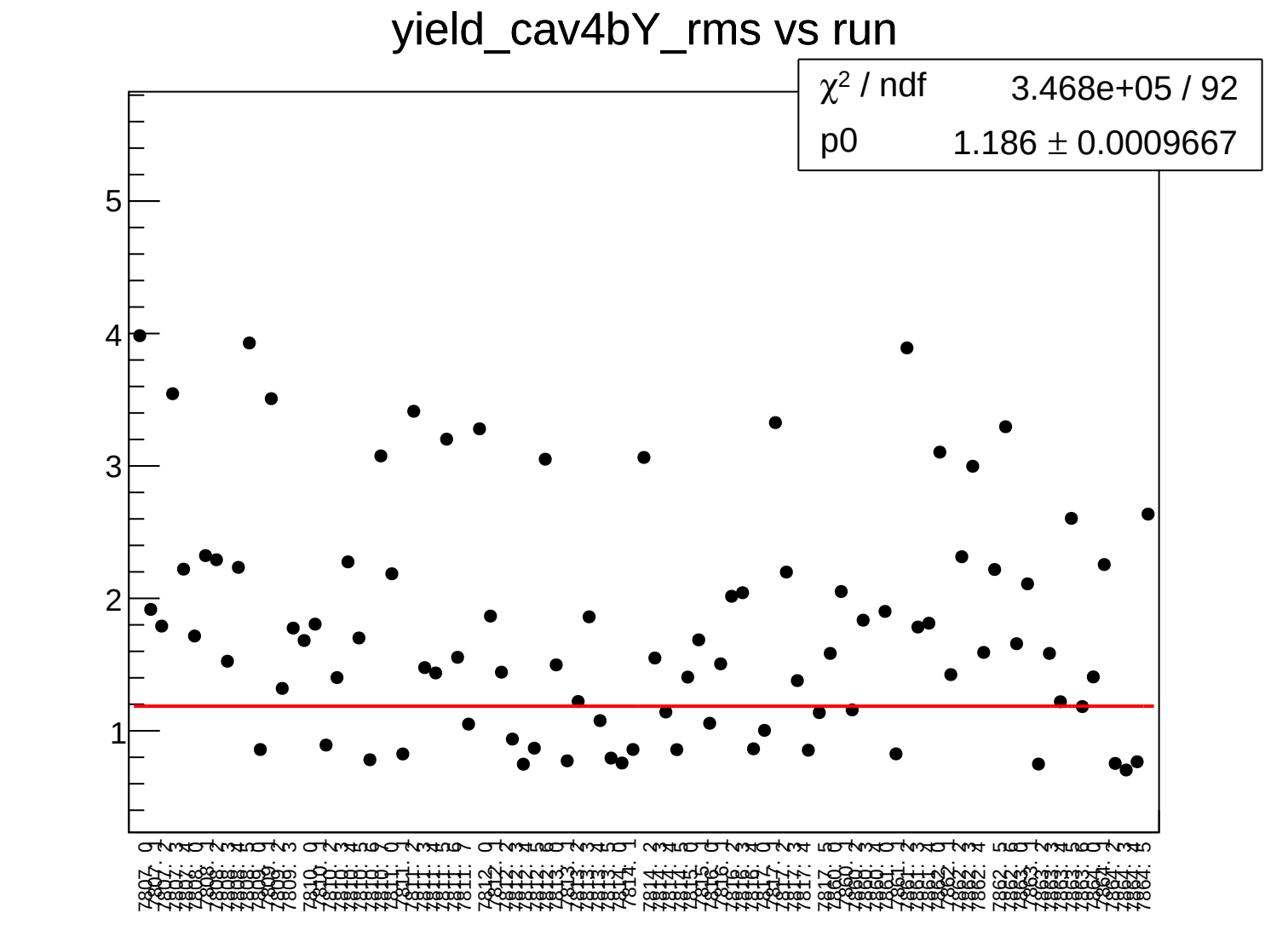

yield_cav4bX_mean vs run
χ² / ndf 2.761e+05 / 92
p0 −29.51 ± 0.004962
−24
−26
−28
−30
−32
−34
−36
−38
pull
Entries 93
Mean −274.4
Std Dev 0
100
50
0
−50
−100

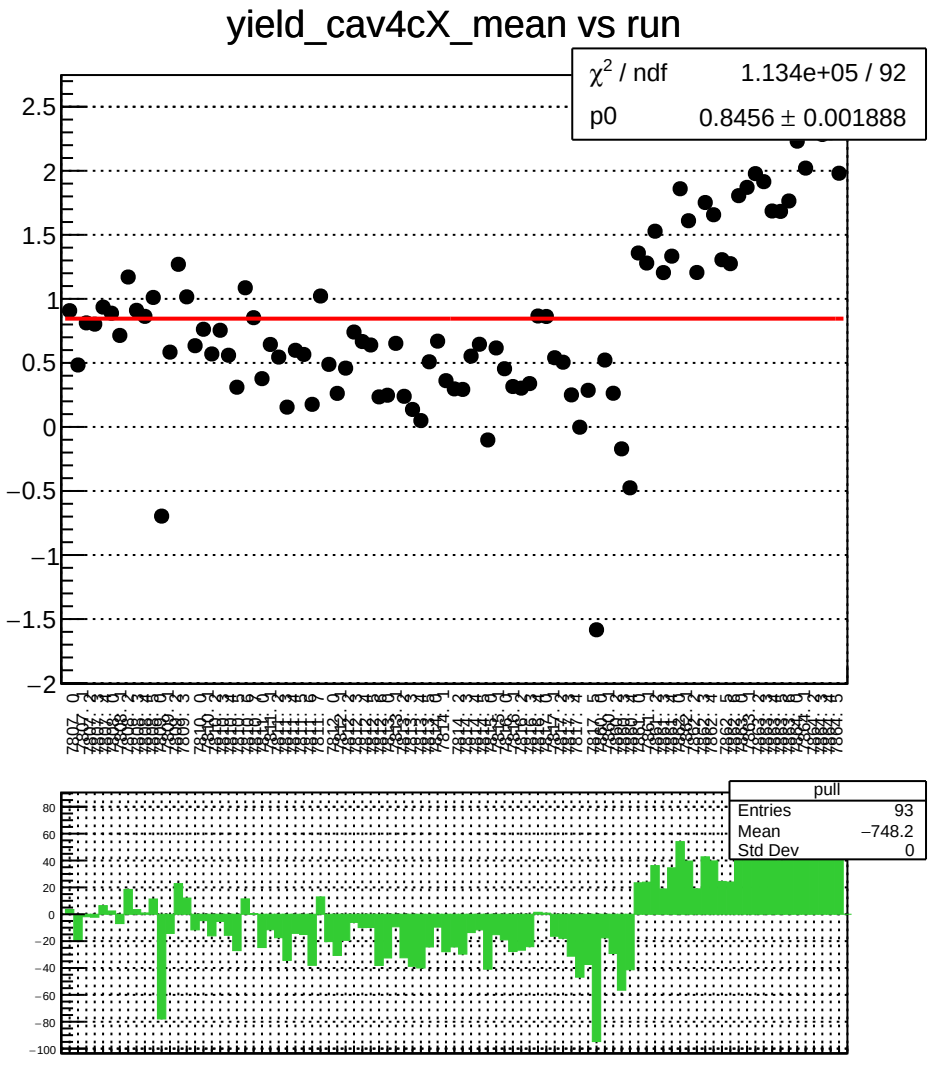

pull1D
Entries 93
Mean 1.84
Std Dev 4.581
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

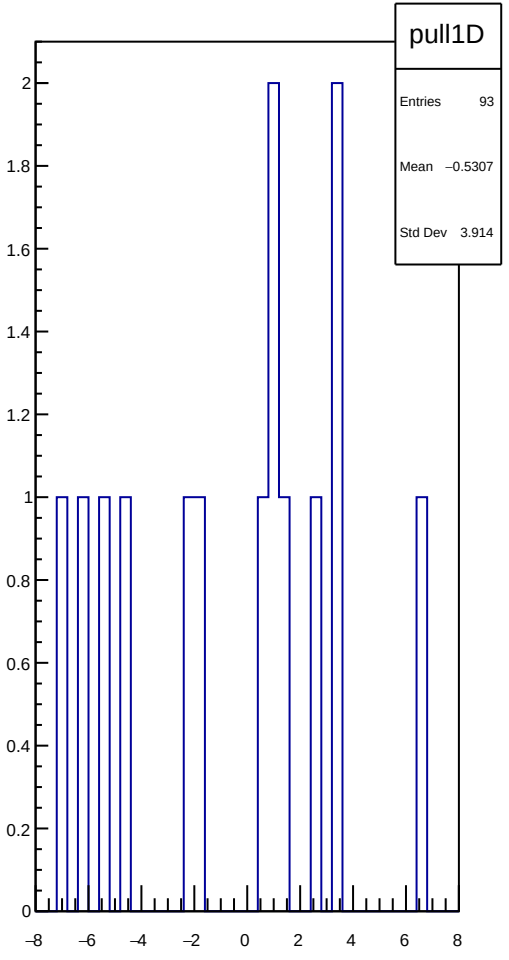

yield_cav4bX_rms vs run
χ^2 / ndf 2.329e+04 / 92
p0 4.744 ± 0.003509
10
9
8
7
6
5
4

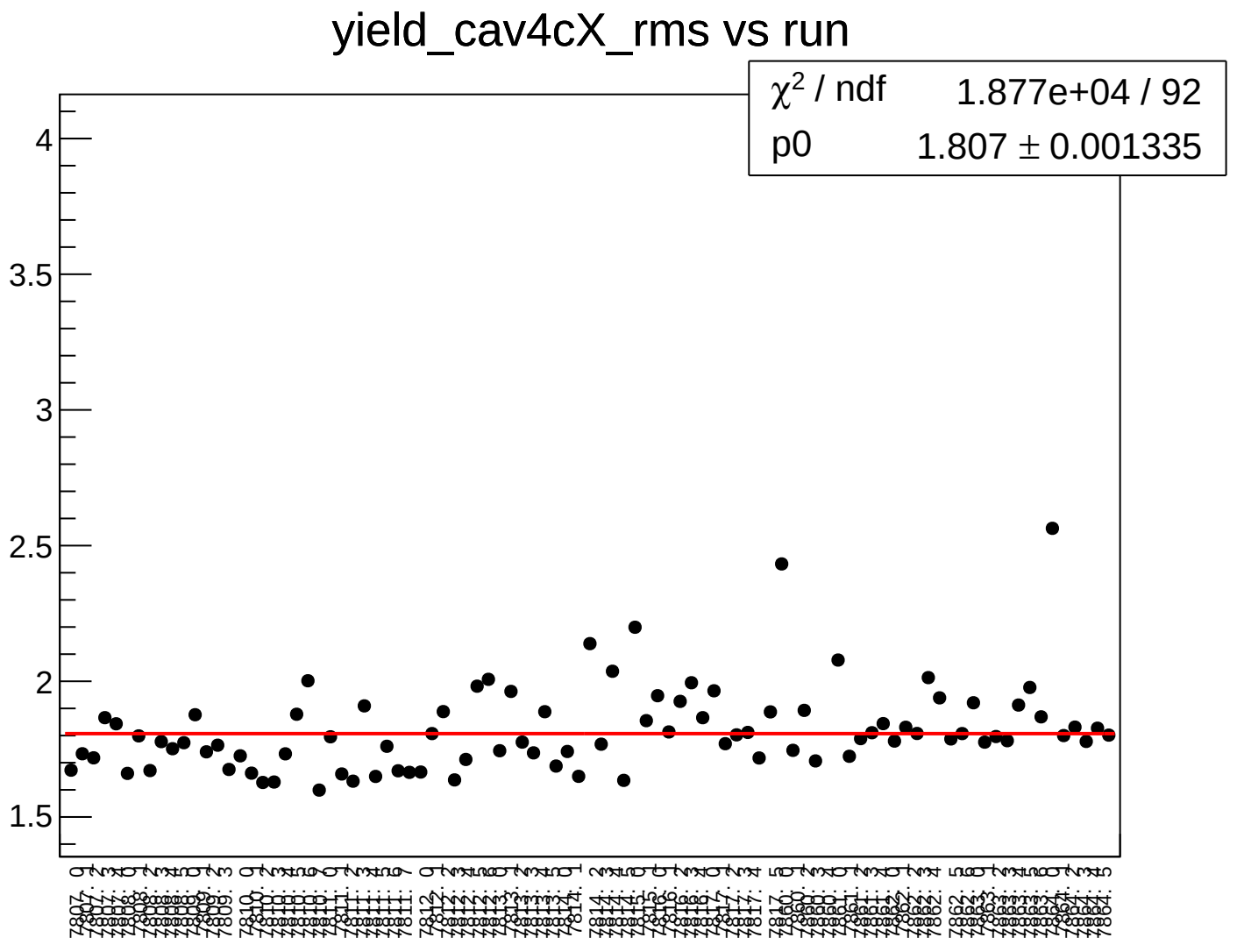

yield_cav4bY_mean vs run
χ² / ndf 2.593e+06 / 92
p0 −66.15 ± 0.001367
−64
−66
−68
−70
−72
pull
Entries 93
Mean 39.81
Std Dev 33.11
200
100
0
−100
−200
−300
−400
−500

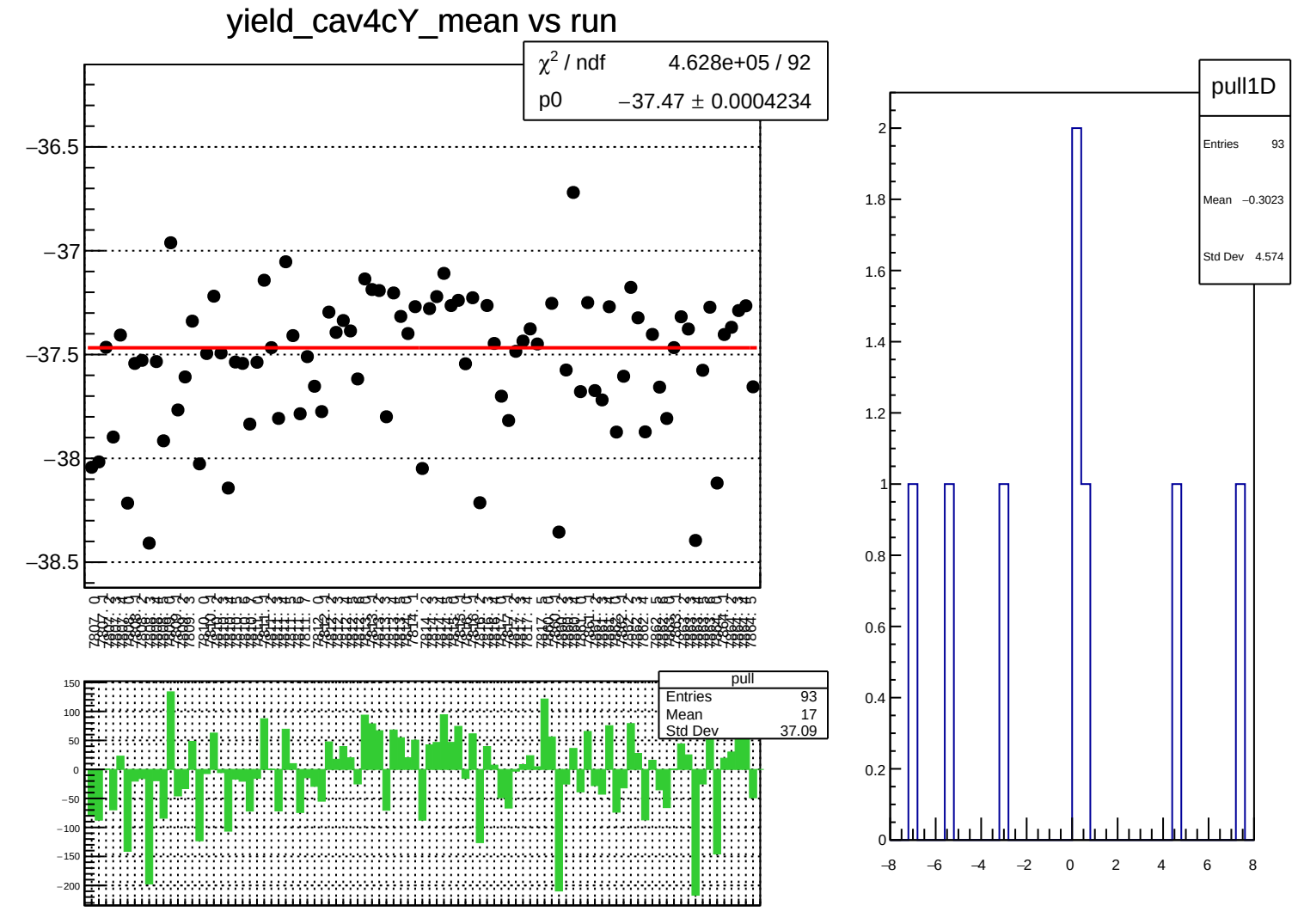

pull1D
Entries 93
Mean 5.818
Std Dev 0.3716
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

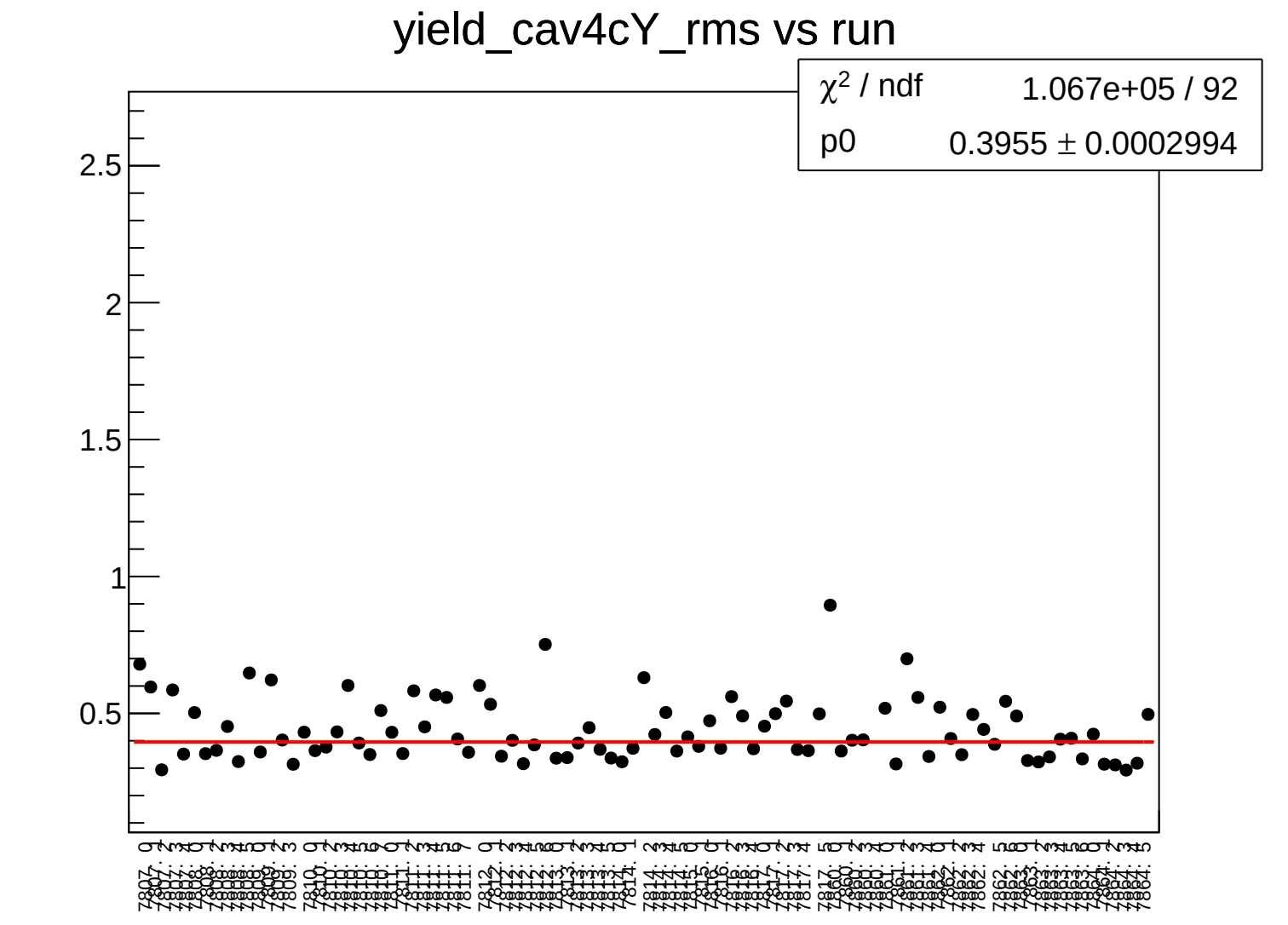

yield_cav4bY_rms vs run
χ² / ndf 3.468e+05 / 92
p0 1.186 ± 0.0009667
5
4
3
2
1

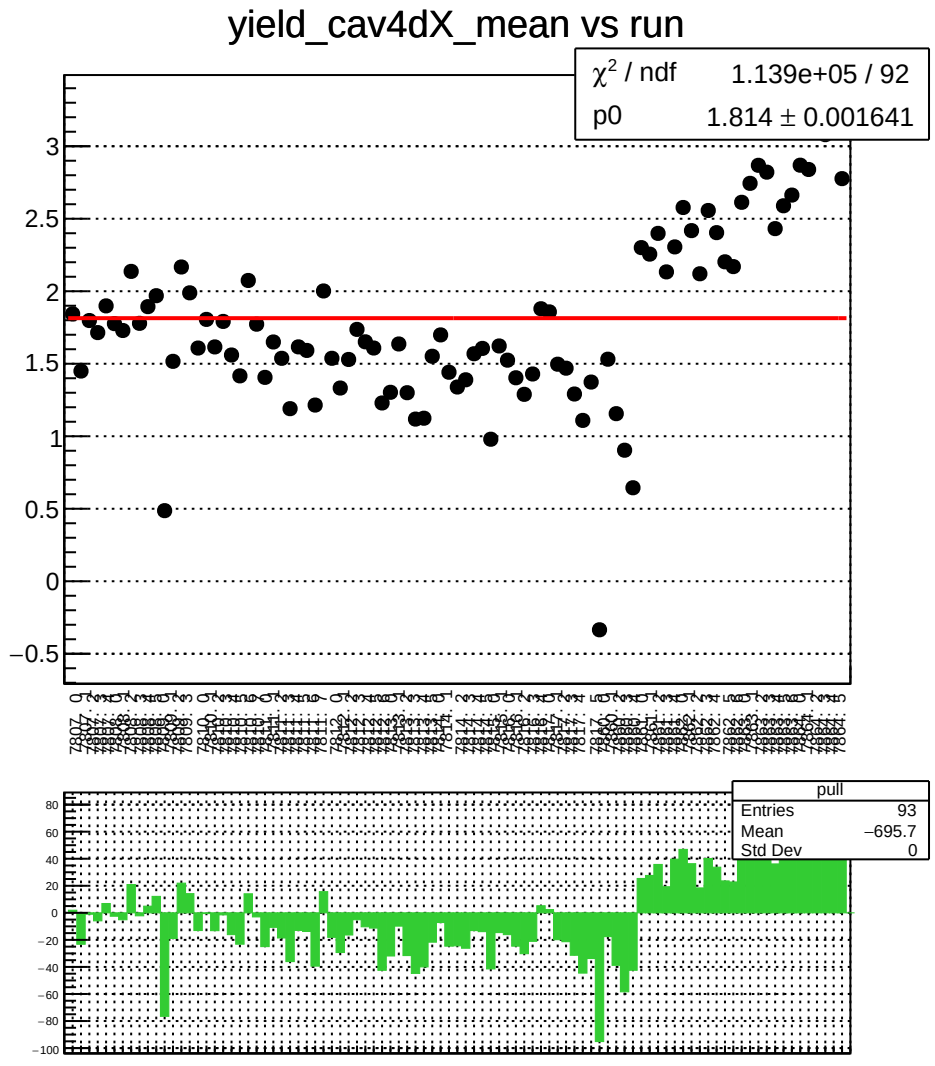

yield_cav4cX_mean vs run
χ² / ndf 1.134e+05 / 92
p0 0.8456 ± 0.001888
pull
Entries 93
Mean −748.2
Std Dev 0

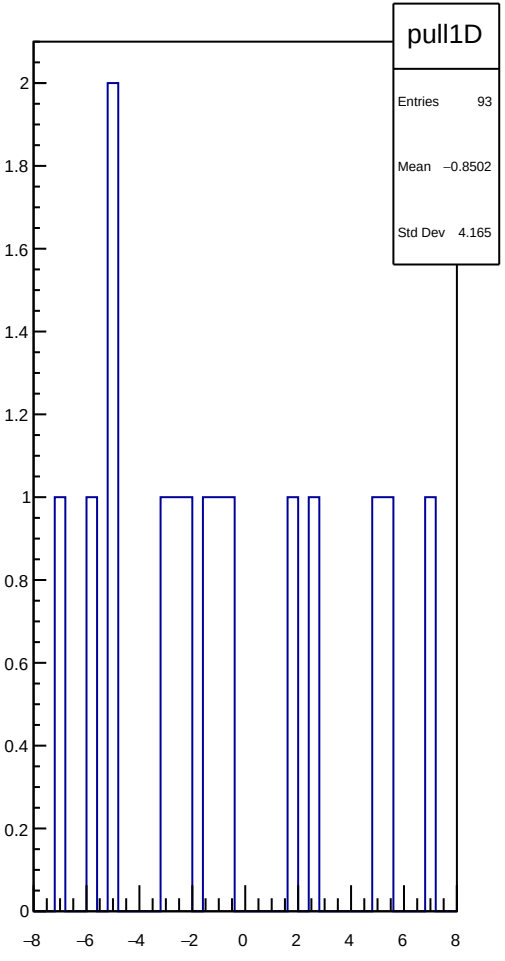

pull1D
Entries 93
Mean −0.5307
Std Dev 3.914

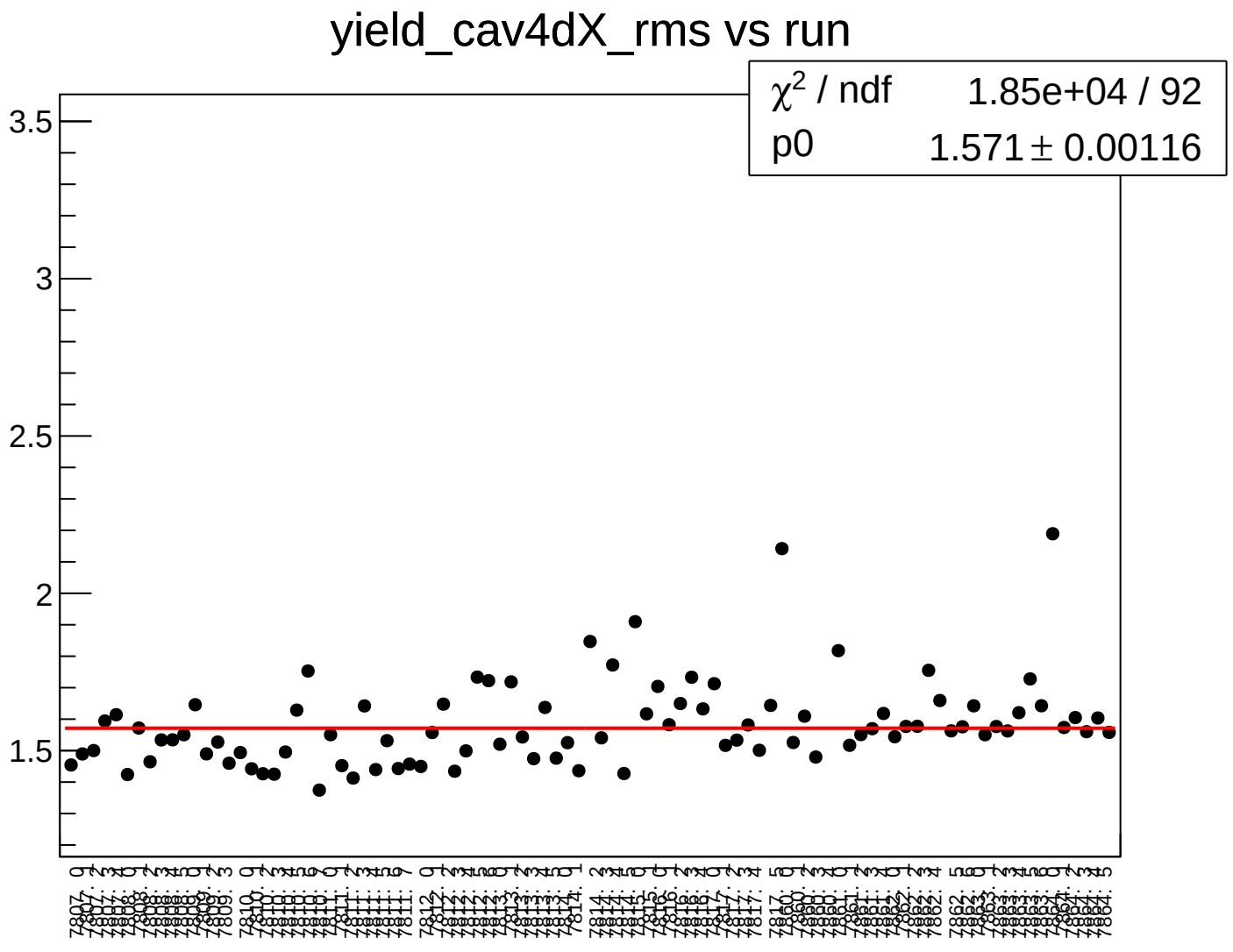

yield_cav4cX_rms vs run
χ^2 / ndf 1.877e+04 / 92
p0 1.807 ± 0.001335
4
3.5
3
2.5
2
1.5

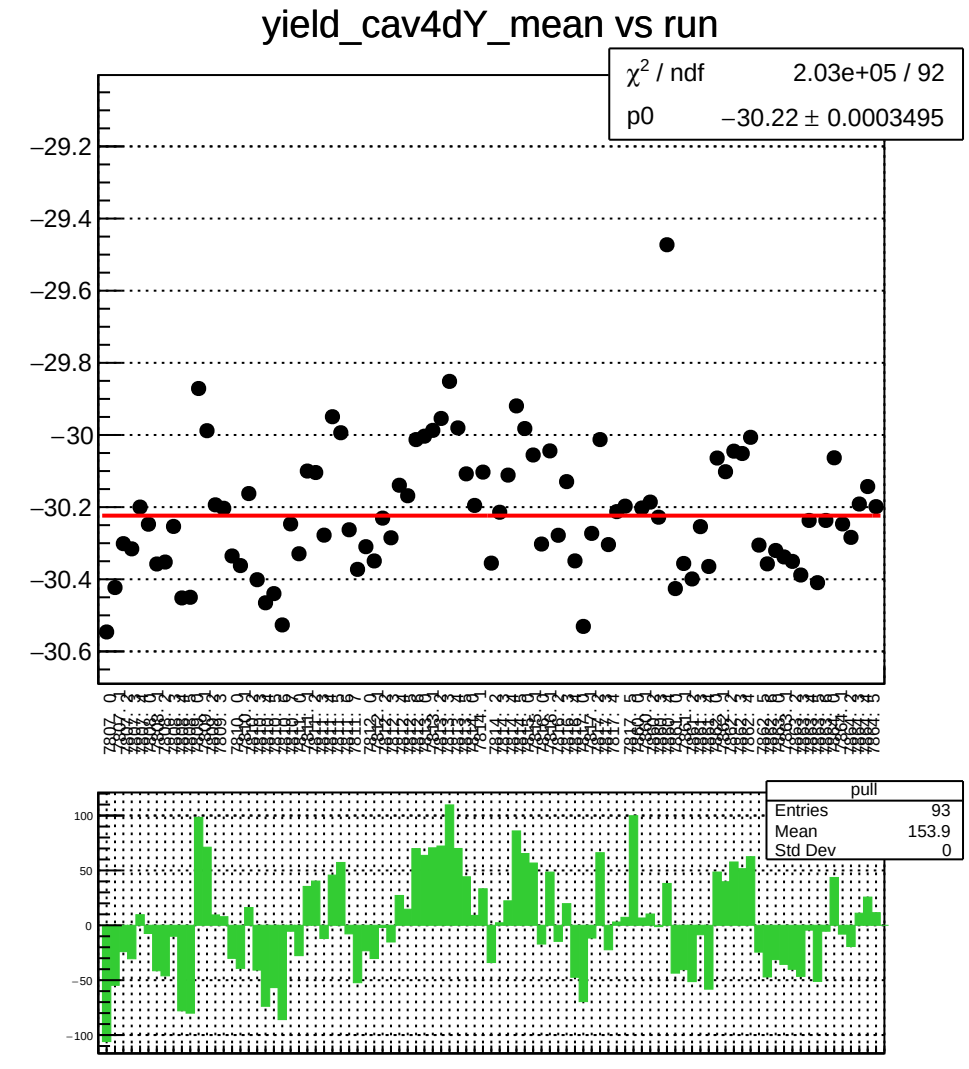

yield_cav4cY_mean vs run
χ² / ndf 4.628e+05 / 92
p0 −37.47 ± 0.0004234
−36.5
−37
−37.5
−38
−38.5
pull
Entries 93
Mean 17
Std Dev 37.09
150
100
50
0
−50
−100
−150
−200
pull1D
Entries 93
Mean −0.3023
Std Dev 4.574
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

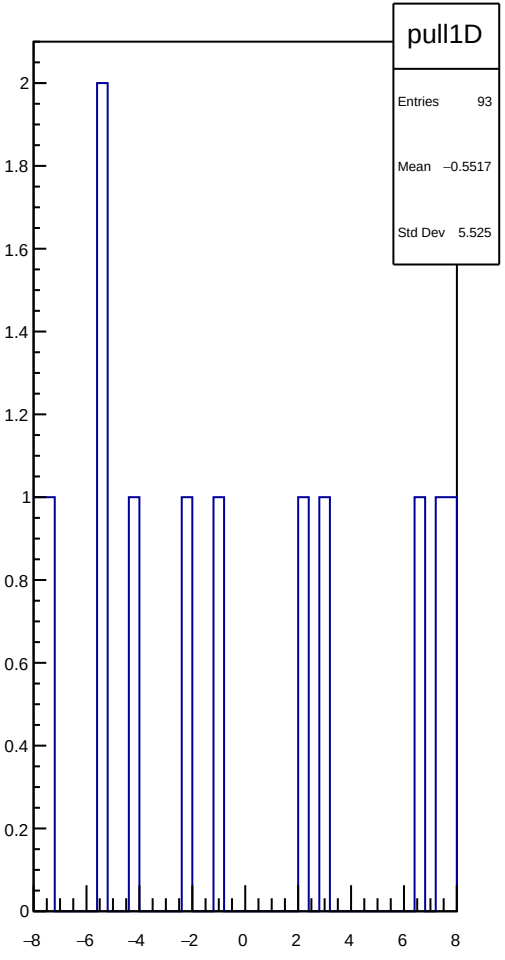

yield_cav4cY_rms vs run
χ² / ndf 1.067e+05 / 92
p0 0.3955 ± 0.0002994
2.5
2
1.5
1
0.5

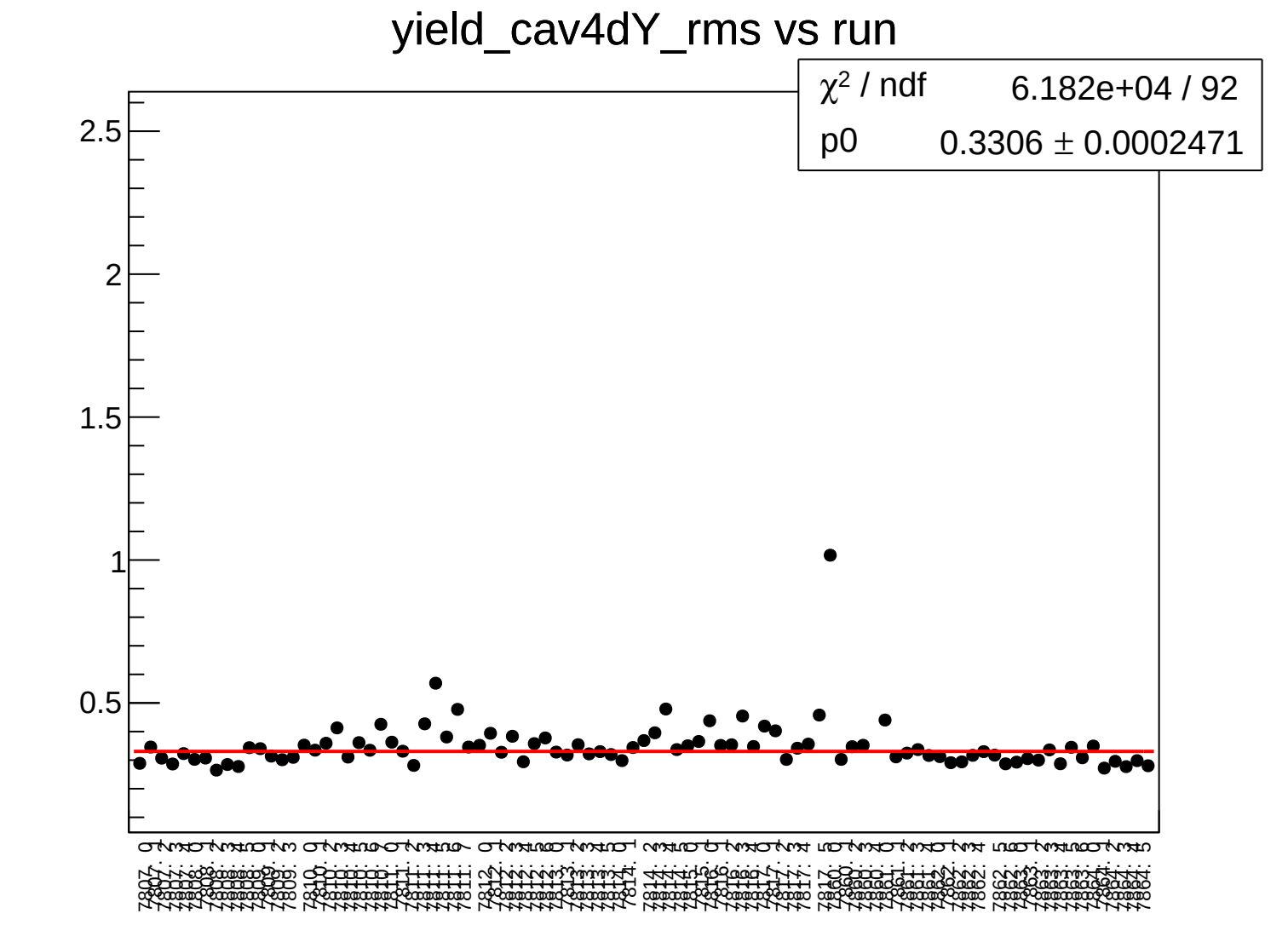

yield_cav4dX_mean vs run
χ² / ndf 1.139e+05 / 92
p0 1.814 ± 0.001641
pull
Entries 93
Mean −695.7
Std Dev 0

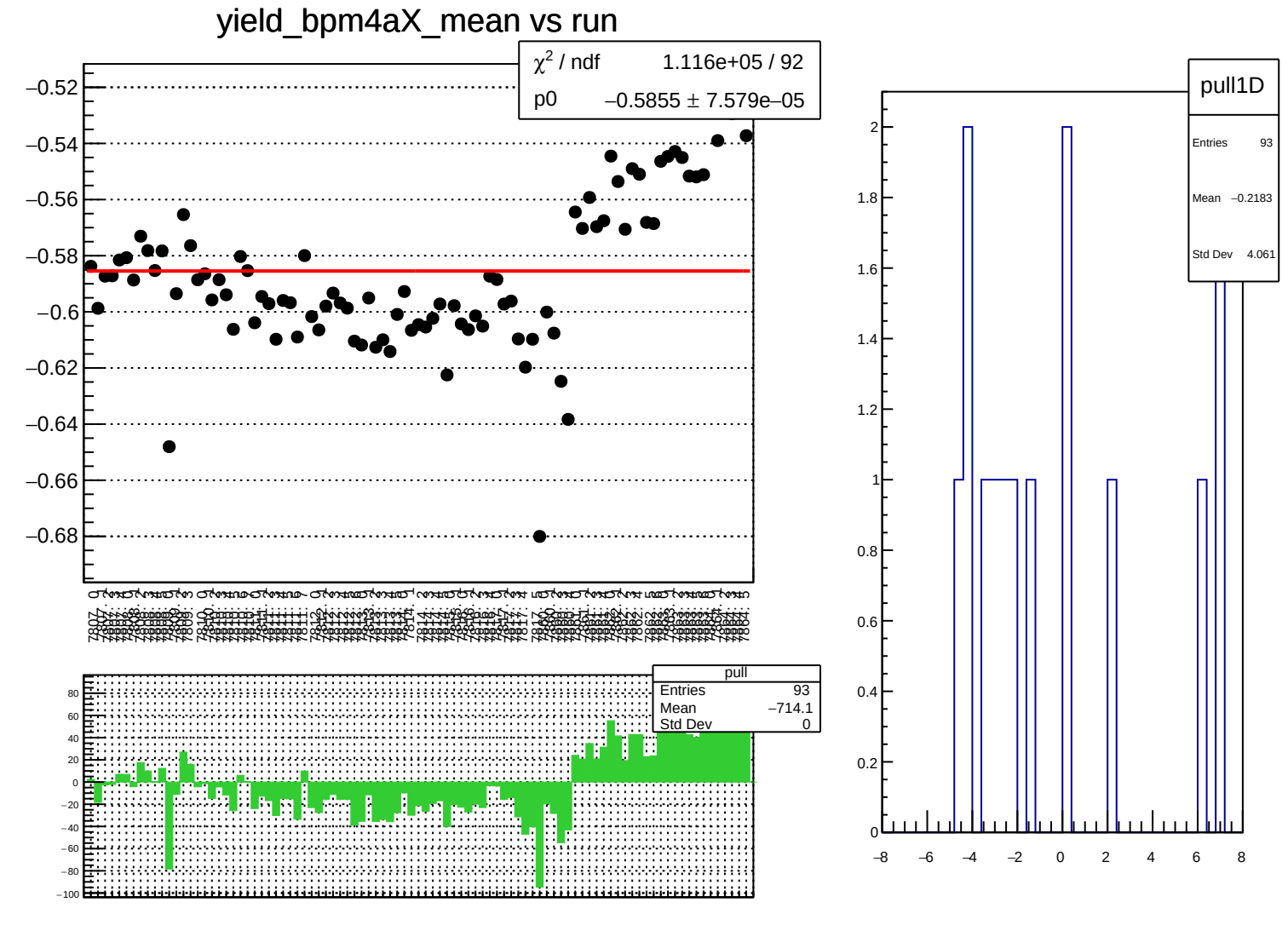

pull1D
Entries 93
Mean −0.8502
Std Dev 4.165

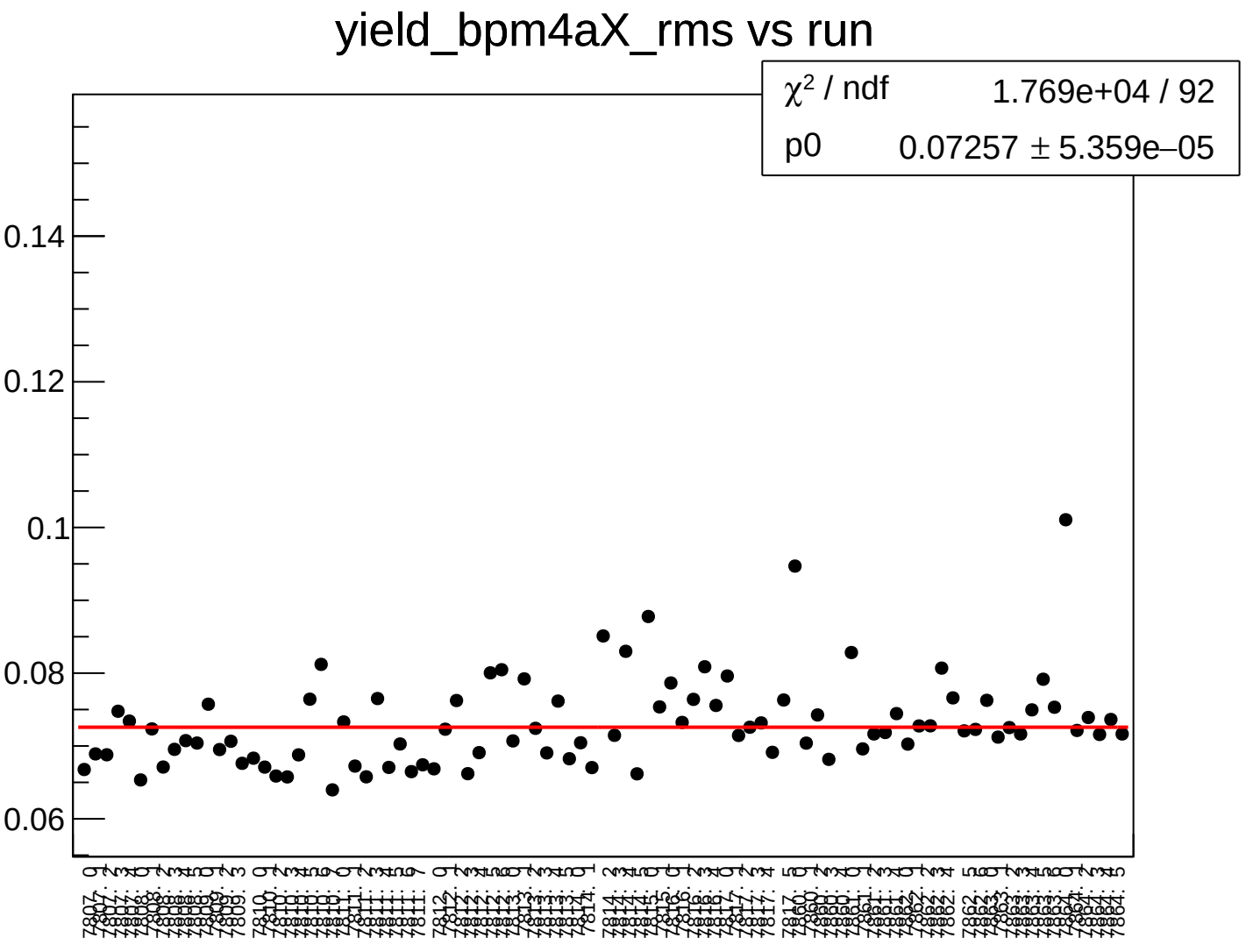

yield_cav4dX_rms vs run
χ² / ndf 1.85e+04 / 92
p0 1.571 ± 0.00116
3.5
3
2.5
2
1.5

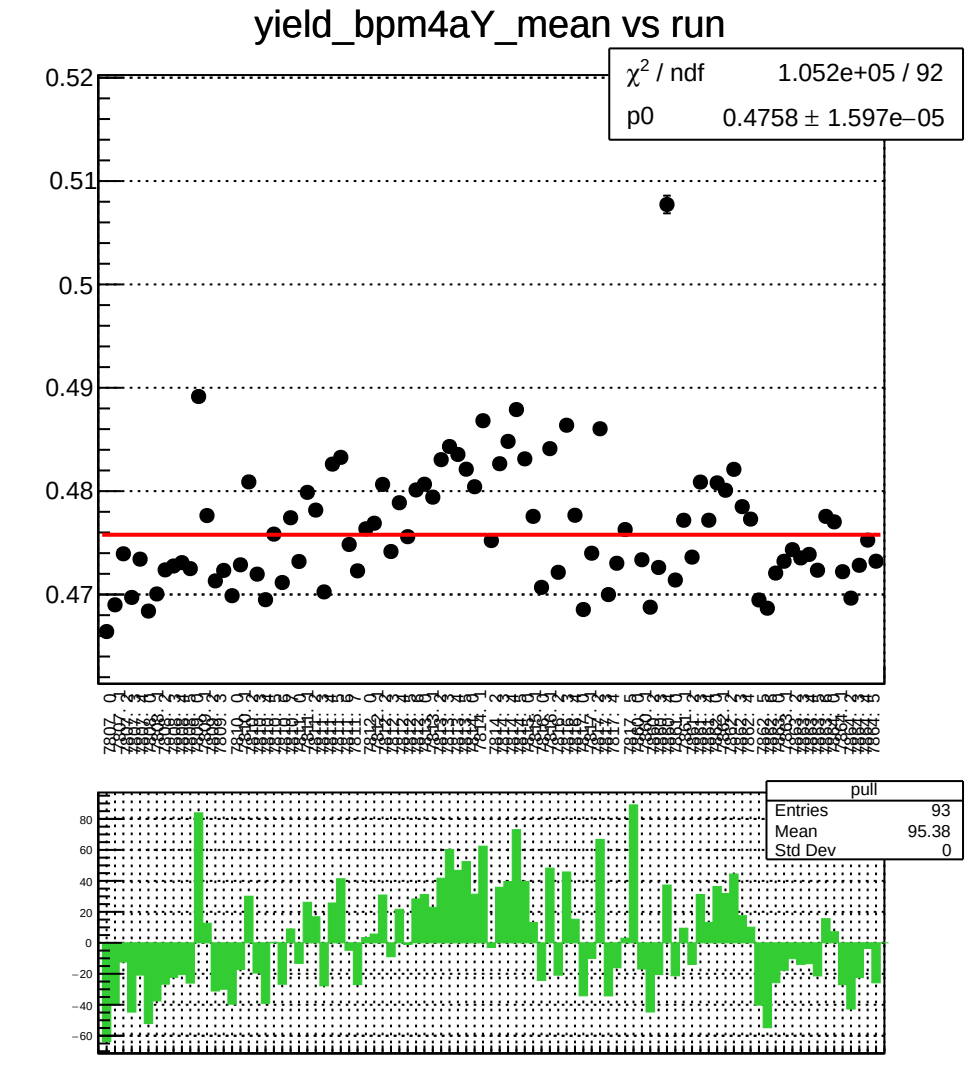

yield_cav4dY_mean vs run
χ² / ndf 2.03e+05 / 92
p0 −30.22 ± 0.0003495
−29.2
−29.4
−29.6
−29.8
−30
−30.2
−30.4
−30.6
pull
Entries 93
Mean 153.9
Std Dev 0
100
50
0
−50
−100

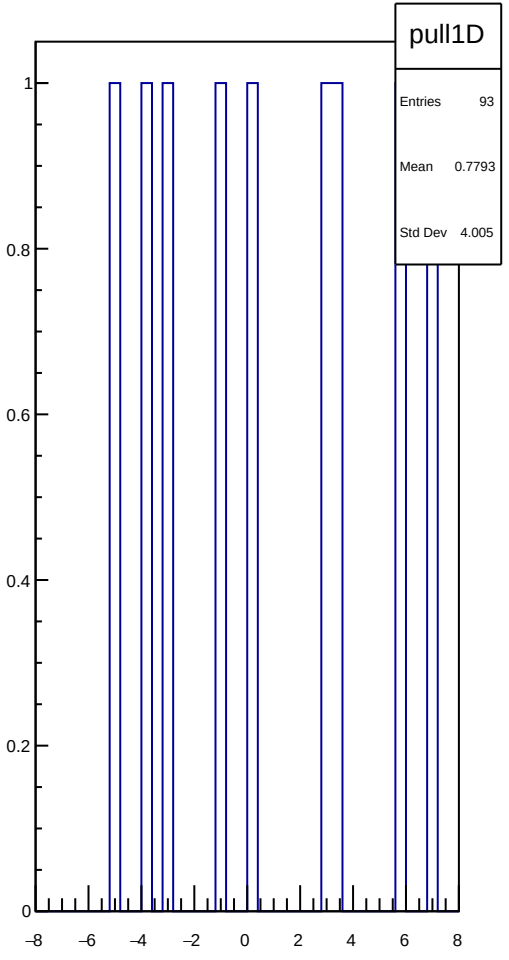

pull1D
Entries 93
Mean −0.5517
Std Dev 5.525
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

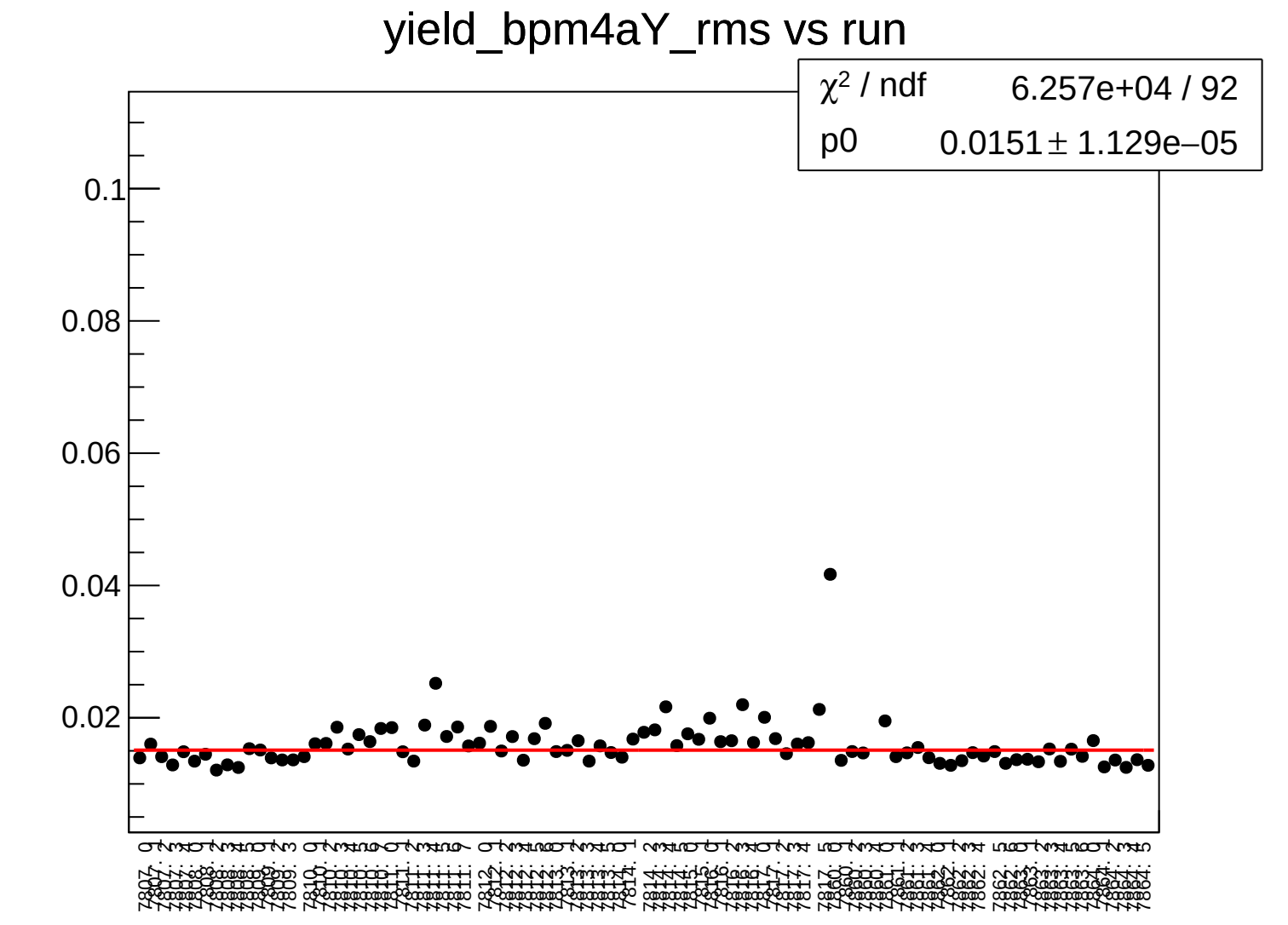

yield_cav4dY_rms vs run
χ² / ndf 6.182e+04 / 92
p0 0.3306 ± 0.0002471
2.5
2
1.5
1
0.5

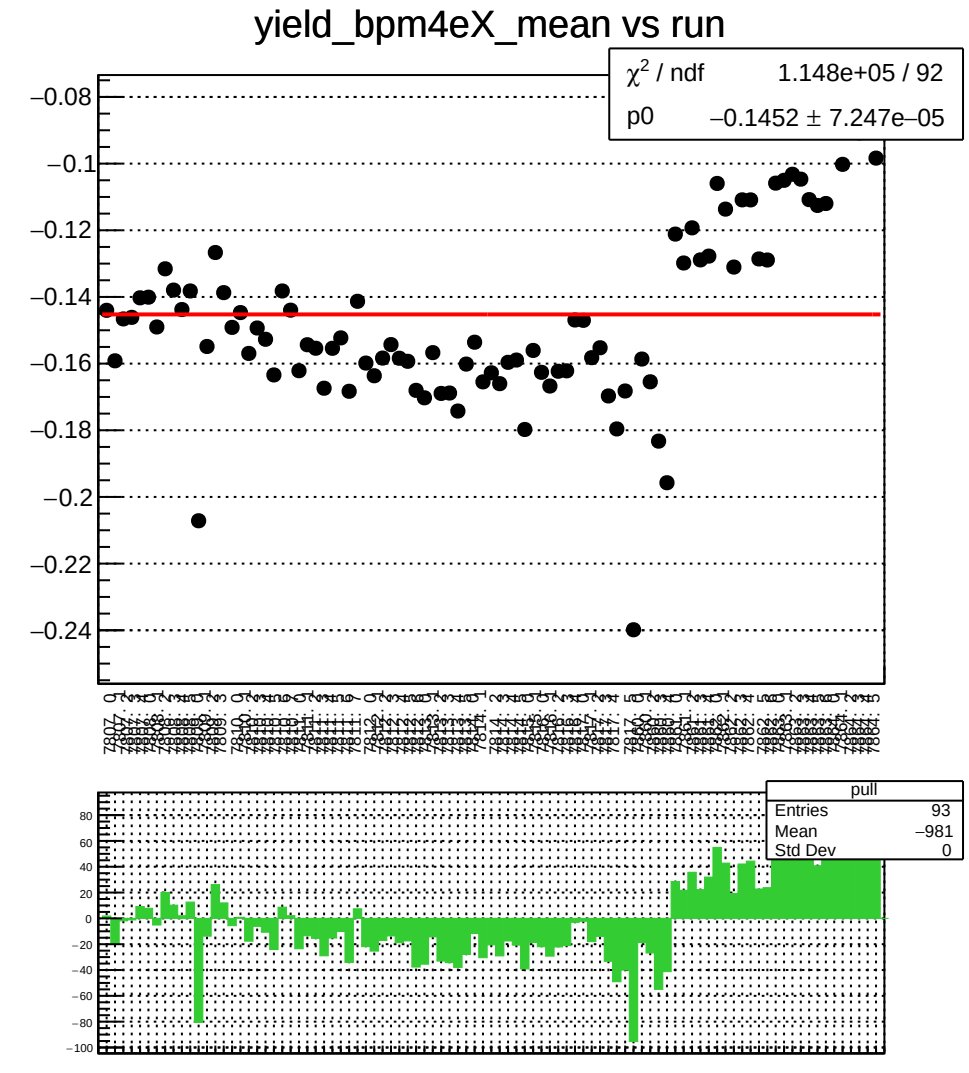

yield_bpm4aX_mean vs run
χ² / ndf 1.116e+05 / 92
p0 −0.5855 ± 7.579e−05
−0.52
−0.54
−0.56
−0.58
−0.6
−0.62
−0.64
−0.66
−0.68
pull
Entries 93
Mean −714.1
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100
pull1D
Entries 93
Mean −0.2183
Std Dev 4.061
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

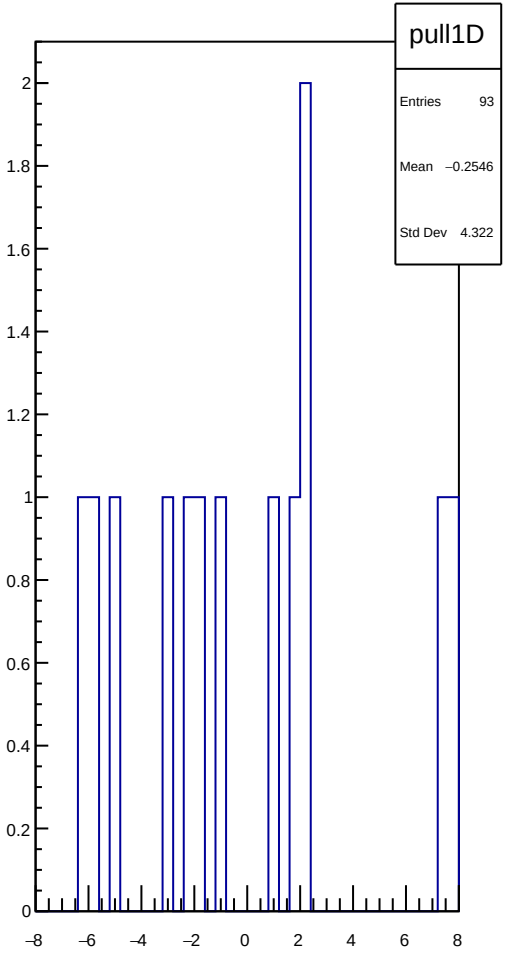

yield_bpm4aX_rms vs run
χ² / ndf 1.769e+04 / 92
p0 0.07257 ± 5.359e–05
0.14
0.12
0.1
0.08
0.06

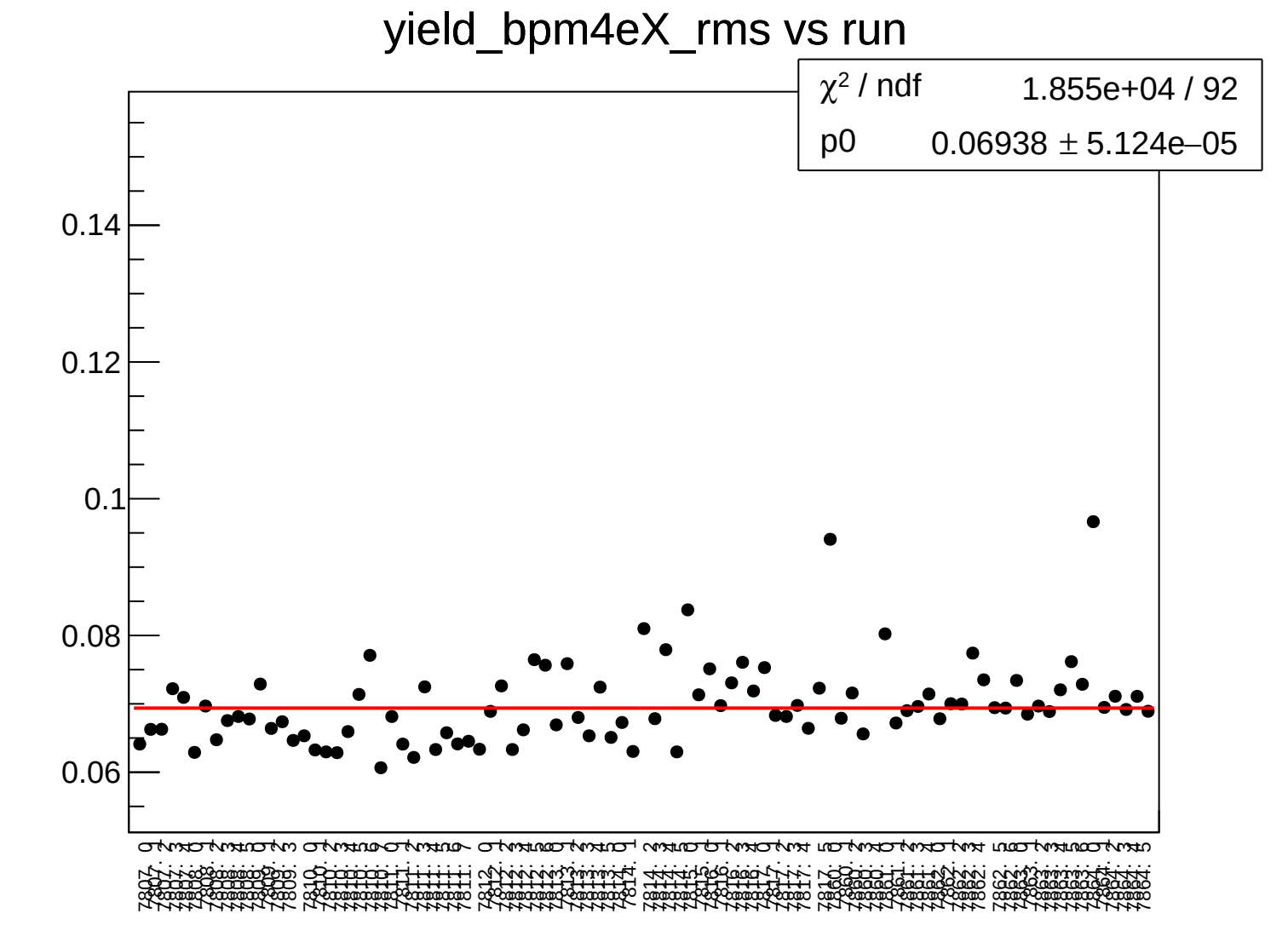

yield_bpm4aY_mean vs run
χ² / ndf 1.052e+05 / 92
p0 0.4758 ± 1.597e−05
0.52
0.51
0.5
0.49
0.48
0.47
pull
Entries 93
Mean 95.38
Std Dev 0
80
60
40
20
0
−20
−40
−60

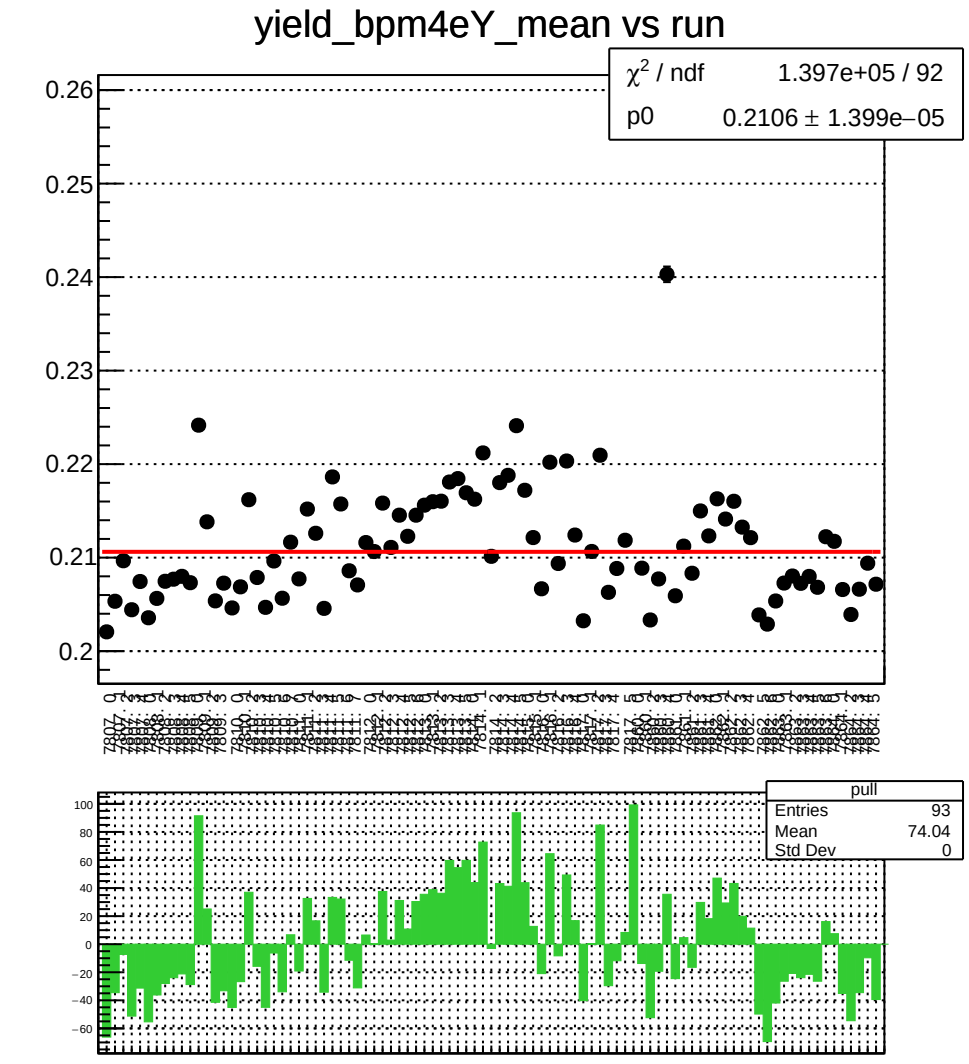

pull1D
Entries 93
Mean 0.7793
Std Dev 4.005
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

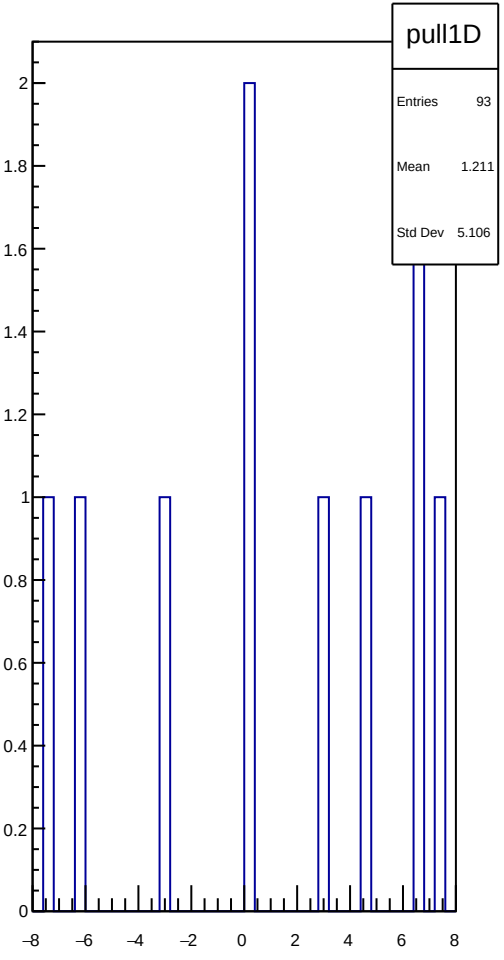

yield_bpm4aY_rms vs run
χ² / ndf 6.257e+04 / 92
p0 0.0151 ± 1.129e−05
0.1
0.08
0.06
0.04
0.02

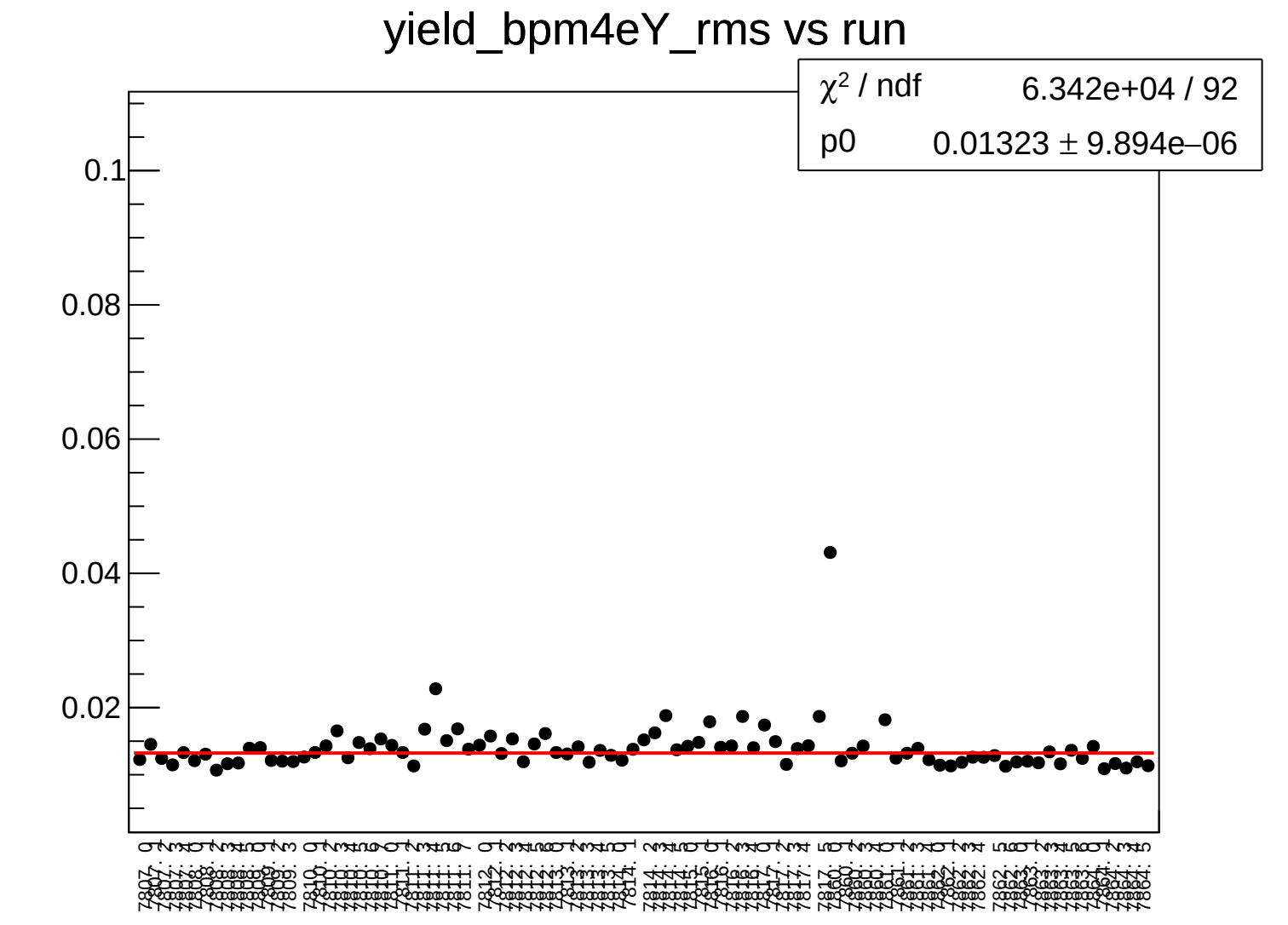

yield_bpm4eX_mean vs run
χ² / ndf 1.148e+05 / 92
p0 −0.1452 ± 7.247e−05
pull
Entries 93
Mean −981
Std Dev 0

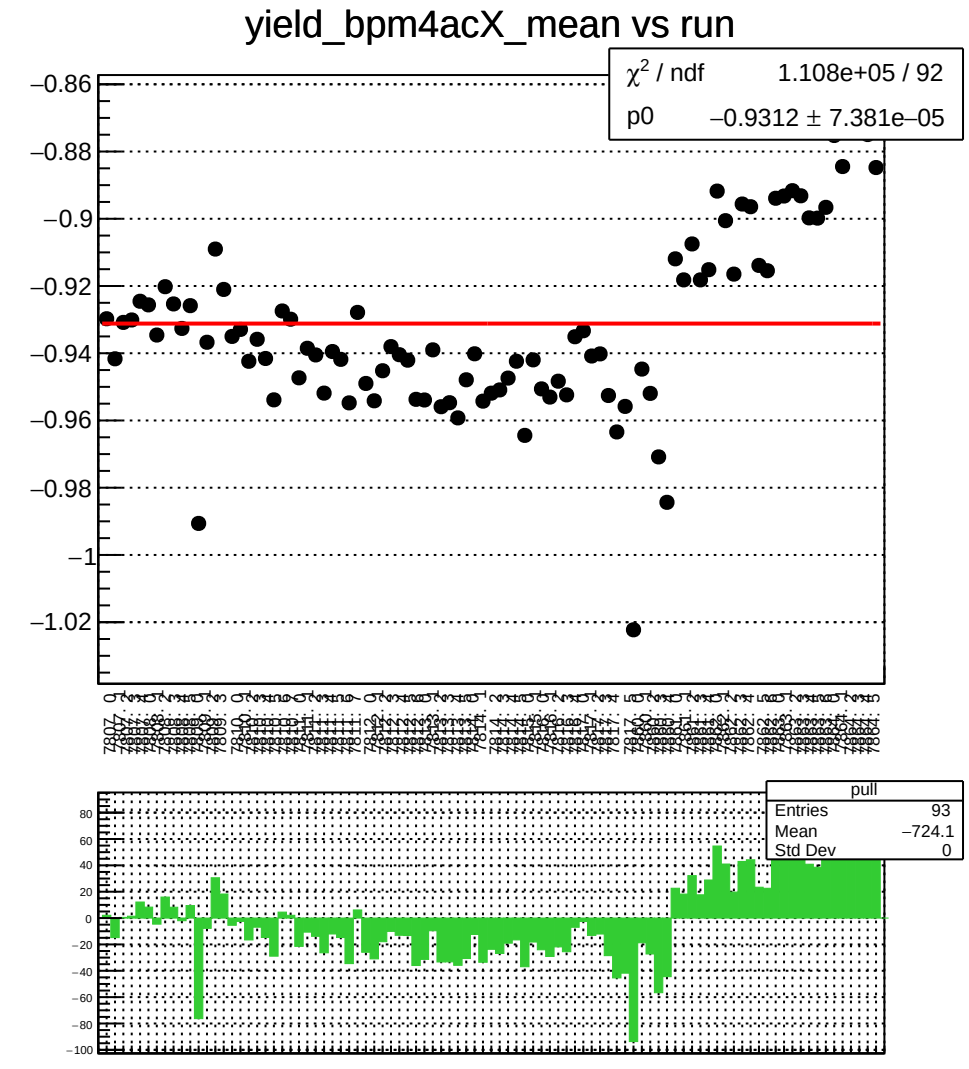

pull1D
Entries 93
Mean −0.2546
Std Dev 4.322

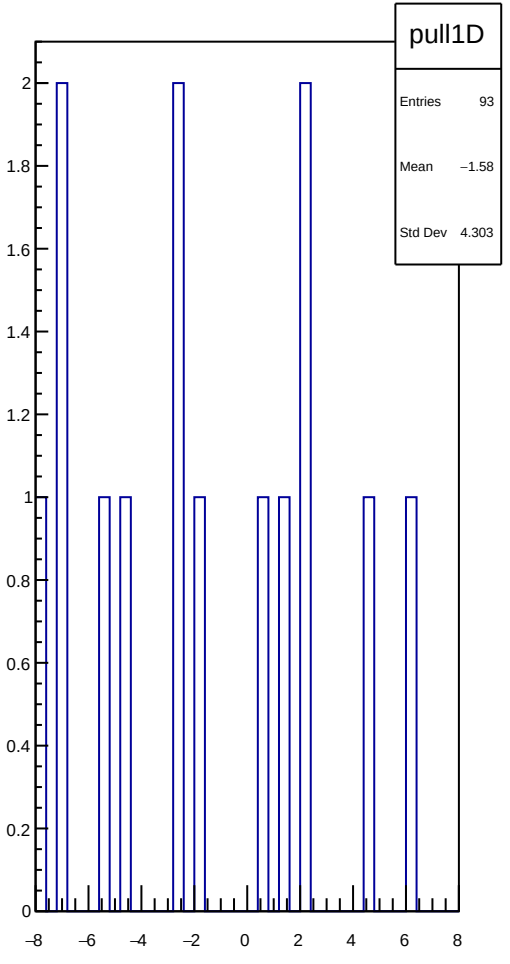

yield_bpm4eX_rms vs run
χ² / ndf 1.855e+04 / 92
p0 0.06938 ± 5.124e−05
0.14
0.12
0.1
0.08
0.06

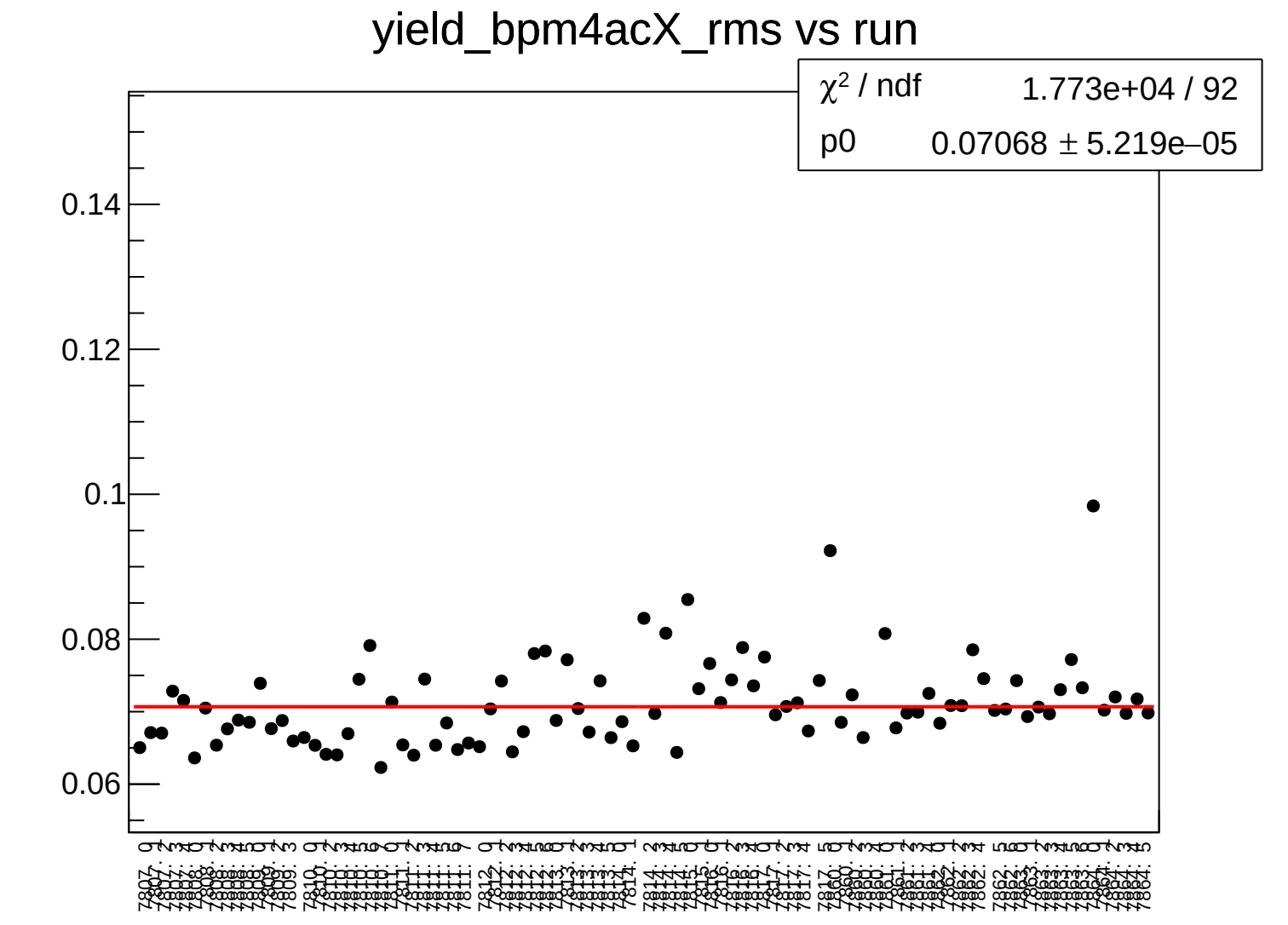

yield_bpm4eY_mean vs run
χ² / ndf 1.397e+05 / 92
p0 0.2106 ± 1.399e−05
0.26
0.25
0.24
0.23
0.22
0.21
0.2
pull
Entries 93
Mean 74.04
Std Dev 0
100
80
60
40
20
0
−20
−40
−60

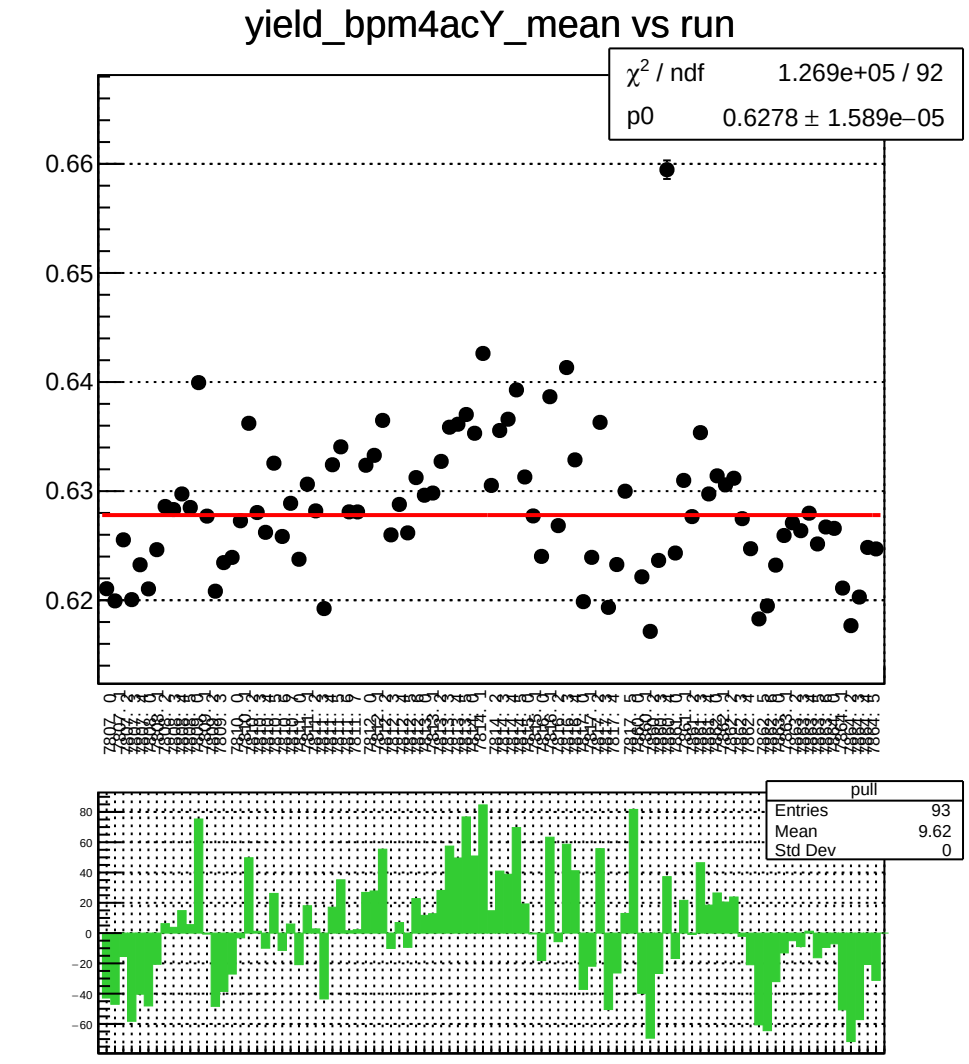

pull1D
Entries 93
Mean 1.211
Std Dev 5.106
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

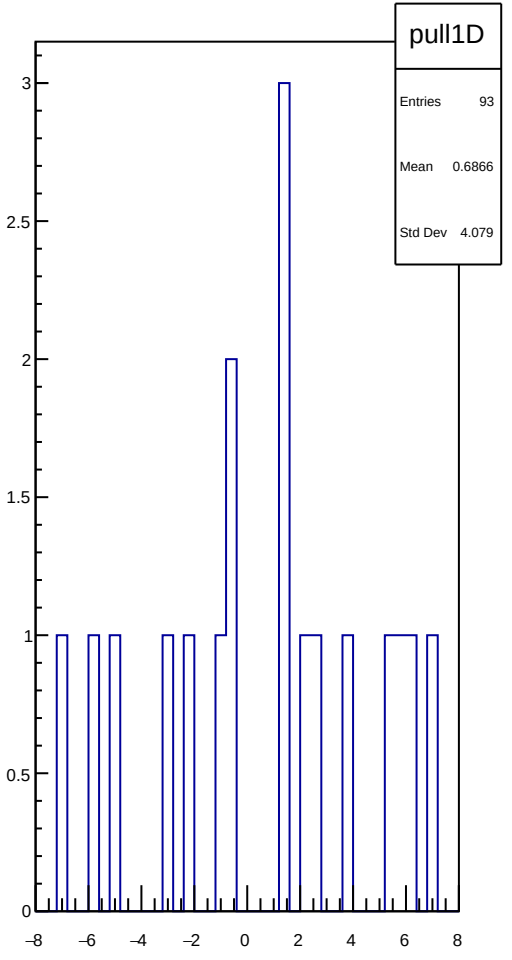

yield_bpm4eY_rms vs run
χ² / ndf 6.342e+04 / 92
p0 0.01323 ± 9.894e−06
0.1
0.08
0.06
0.04
0.02

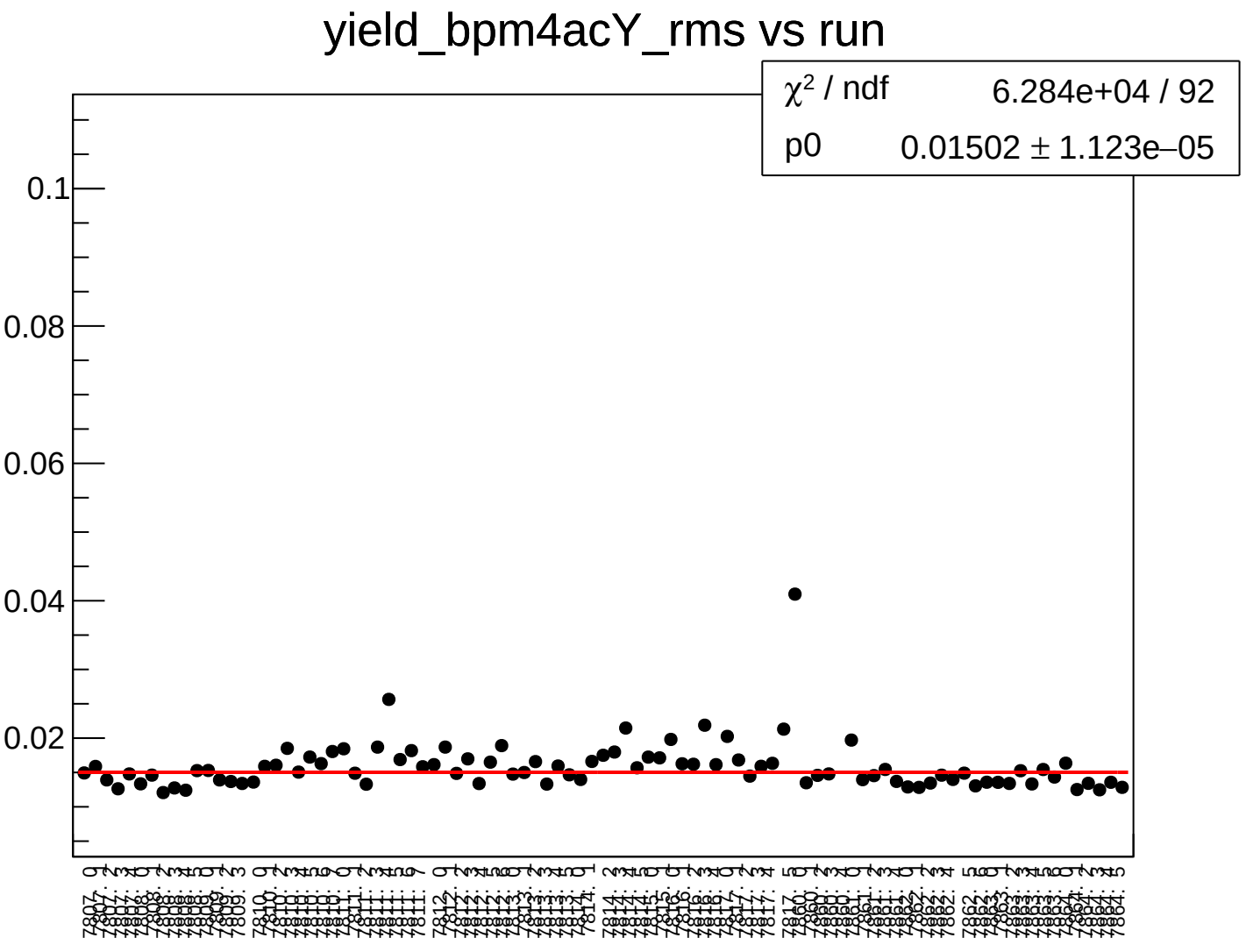

yield_bpm4acX_mean vs run
χ² / ndf 1.108e+05 / 92
p0 −0.9312 ± 7.381e−05
−0.86
−0.88
−0.9
−0.92
−0.94
−0.96
−0.98
−1
−1.02
pull
Entries 93
Mean −724.1
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100

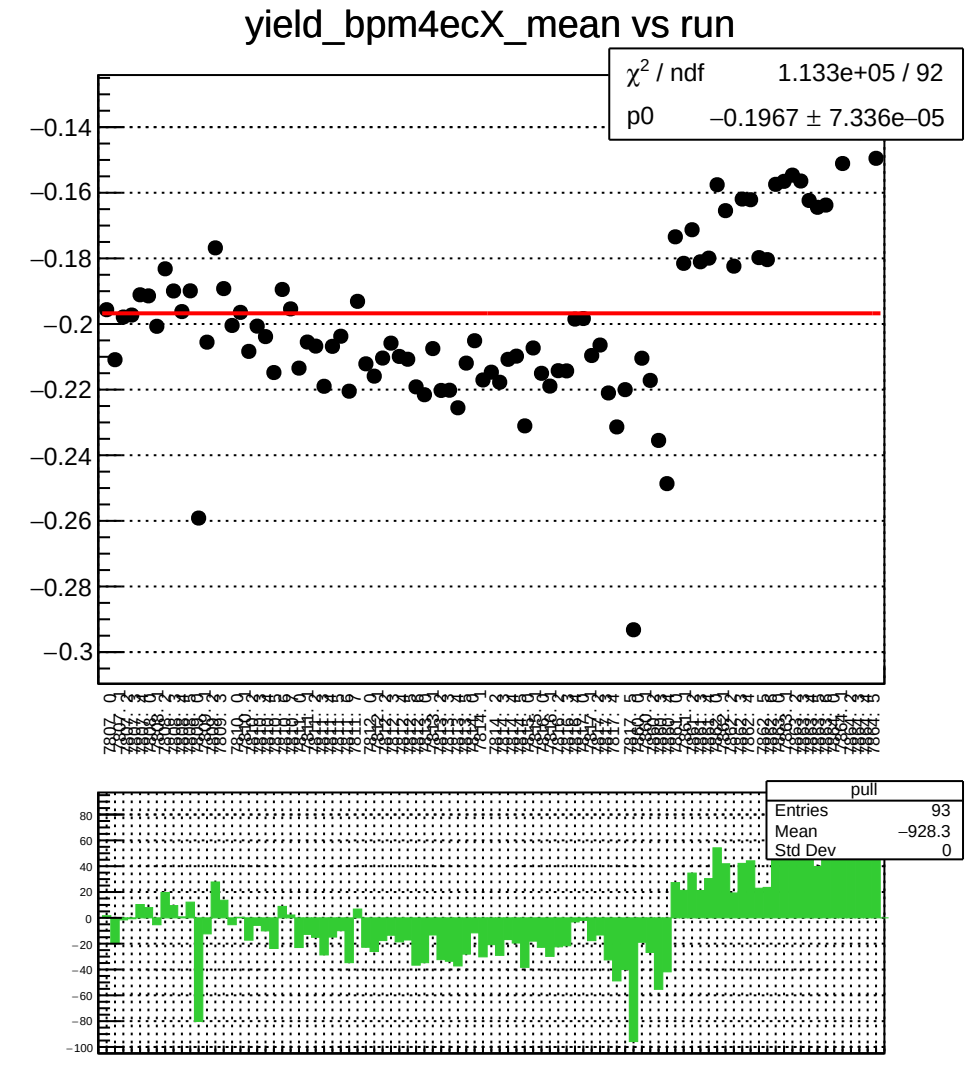

pull1D
Entries 93
Mean −1.58
Std Dev 4.303
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

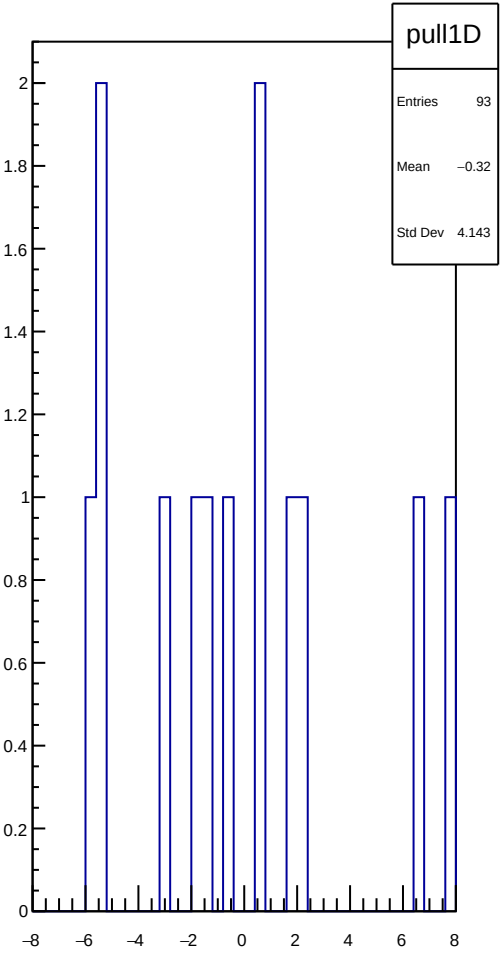

yield_bpm4acX_rms vs run
χ² / ndf 1.773e+04 / 92
p0 0.07068 ± 5.219e–05
0.14
0.12
0.1
0.08
0.06


yield_bpm4acY_mean vs run
χ² / ndf 1.269e+05 / 92
p0 0.6278 ± 1.589e−05
0.66
0.65
0.64
0.63
0.62
pull
Entries 93
Mean 9.62
Std Dev 0
80
60
40
20
0
−20
−40
−60

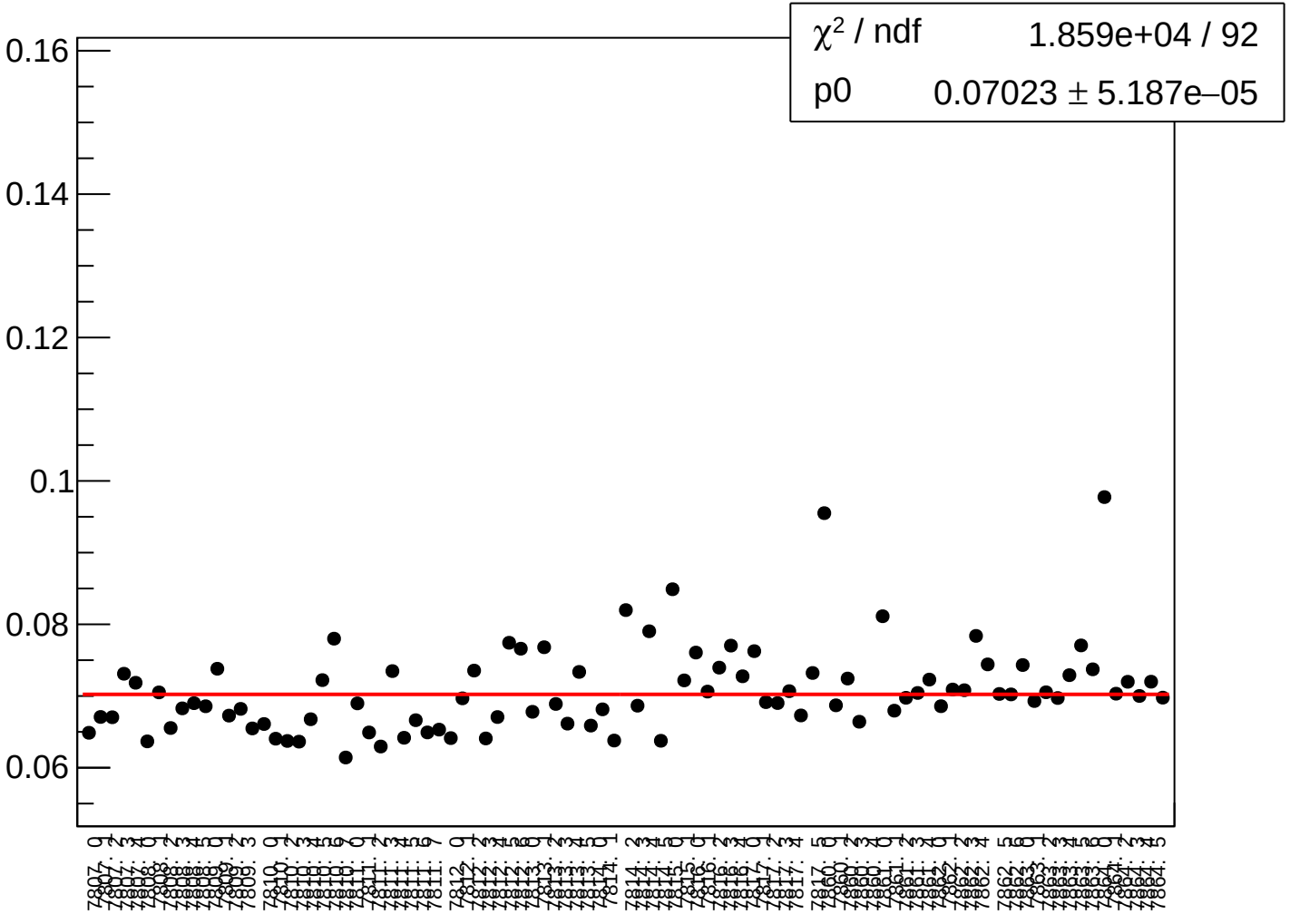

pull1D
Entries 93
Mean 0.6866
Std Dev 4.079
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

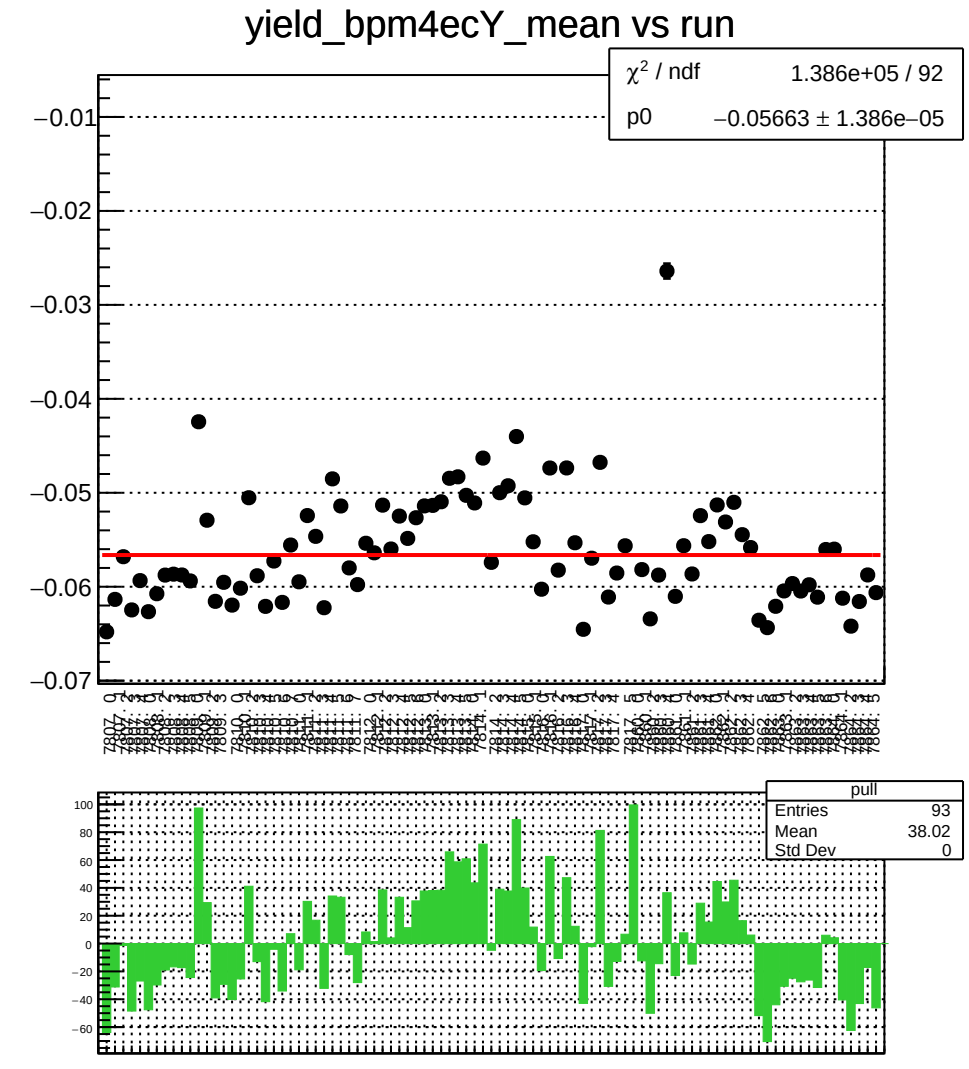

yield_bpm4acY_rms vs run
χ² / ndf 6.284e+04 / 92
p0 0.01502 ± 1.123e–05
0.1
0.08
0.06
0.04
0.02

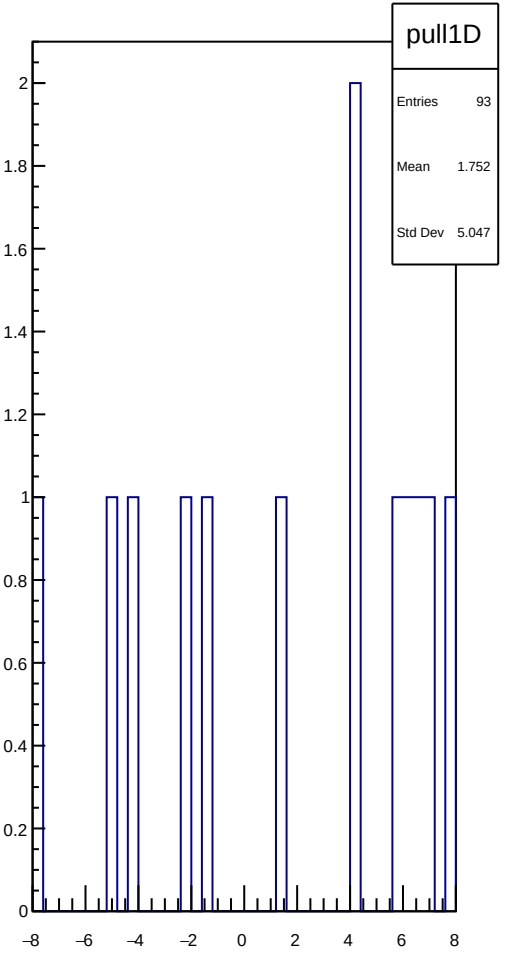

yield_bpm4ecX_mean vs run
χ² / ndf 1.133e+05 / 92
p0 −0.1967 ± 7.336e−05
pull
Entries 93
Mean −928.3
Std Dev 0

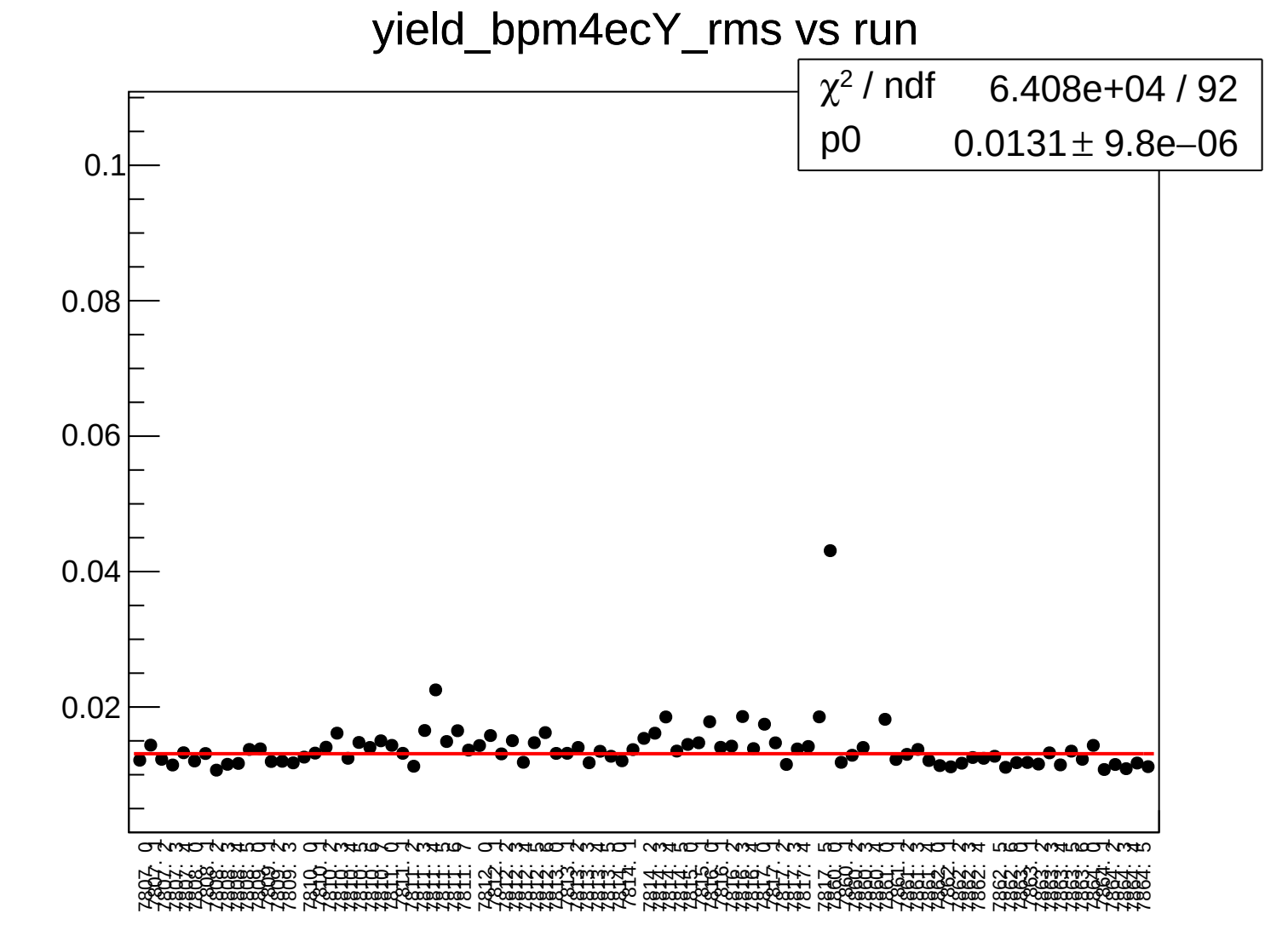

pull1D
Entries 93
Mean −0.32
Std Dev 4.143

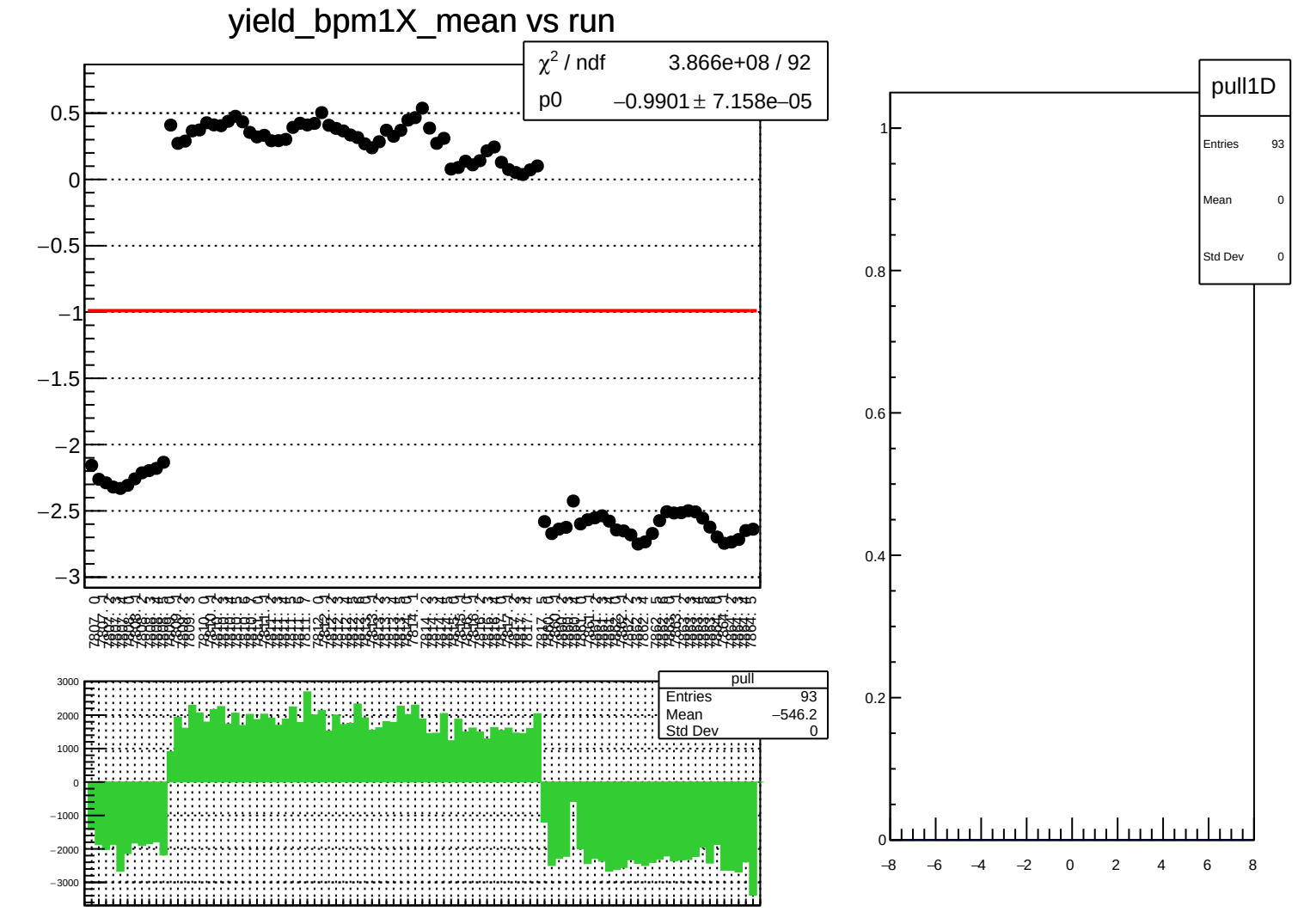
yield_bpm4ecX_rms vs run

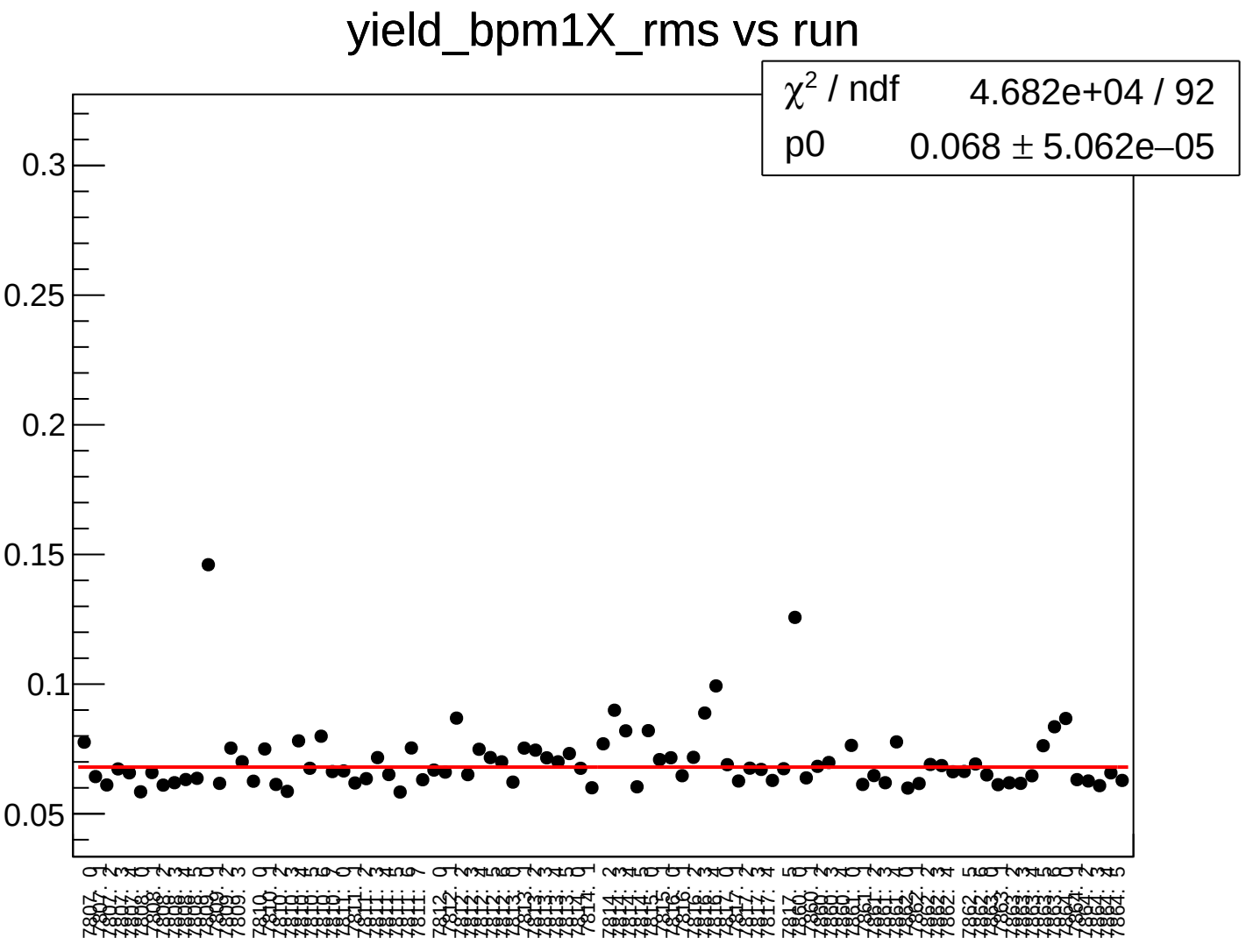


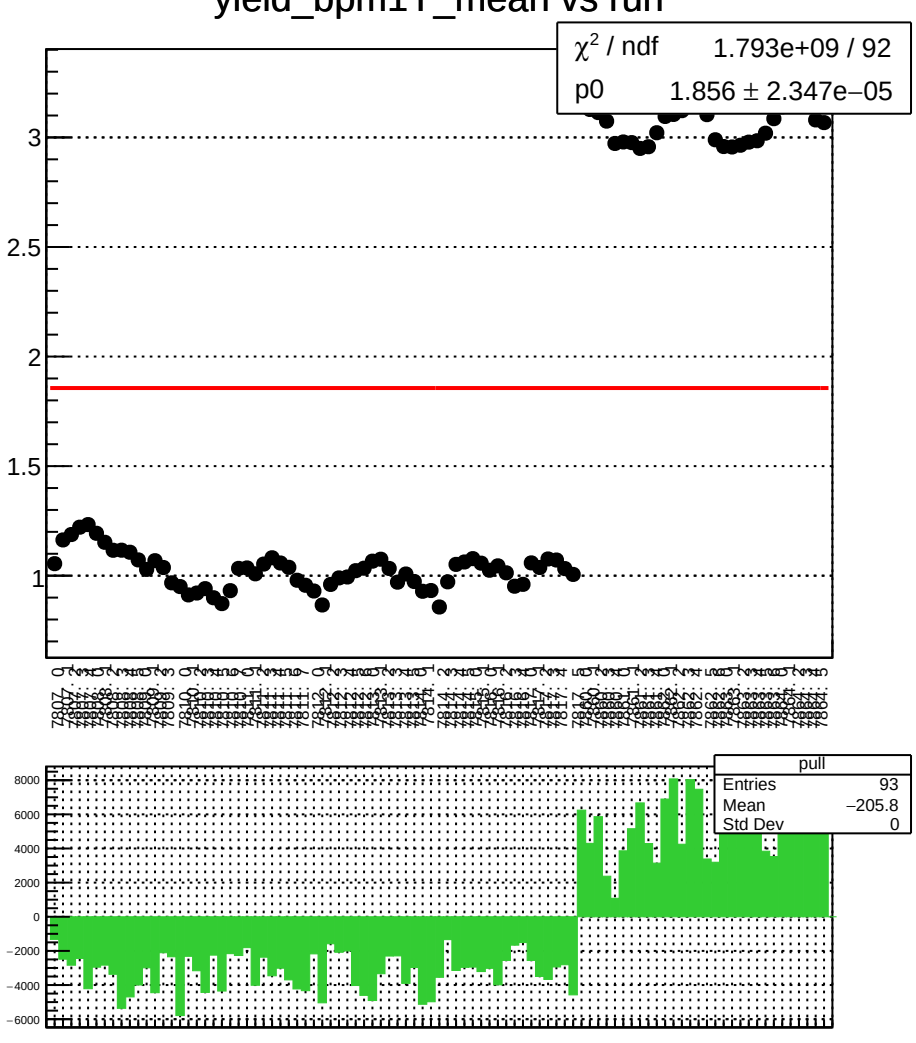

yield_bpm4ecY_mean vs run
χ² / ndf 1.386e+05 / 92
p0 −0.05663 ± 1.386e−05
−0.01
−0.02
−0.03
−0.04
−0.05
−0.06
−0.07
pull
Entries 93
Mean 38.02
Std Dev 0
100
80
60
40
20
0
−20
−40
−60

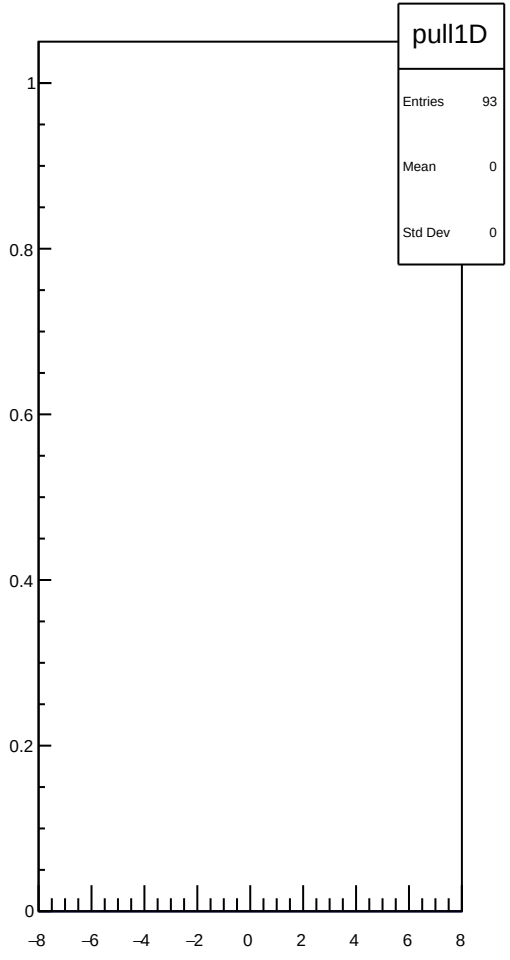

pull1D
Entries 93
Mean 1.752
Std Dev 5.047
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

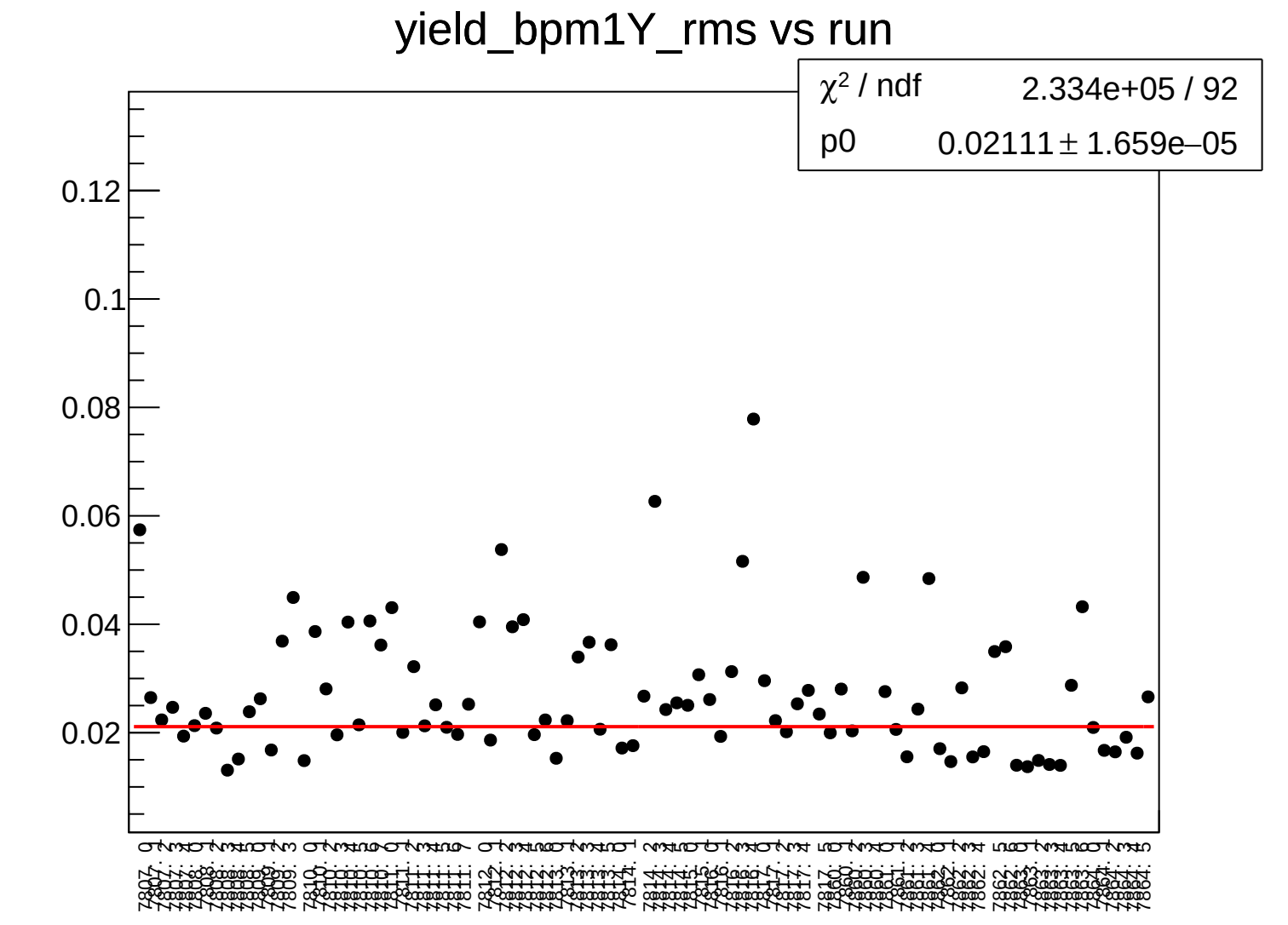

yield_bpm4ecY_rms vs run
χ² / ndf 6.408e+04 / 92
p0 0.0131 ± 9.8e−06
0.1
0.08
0.06
0.04
0.02

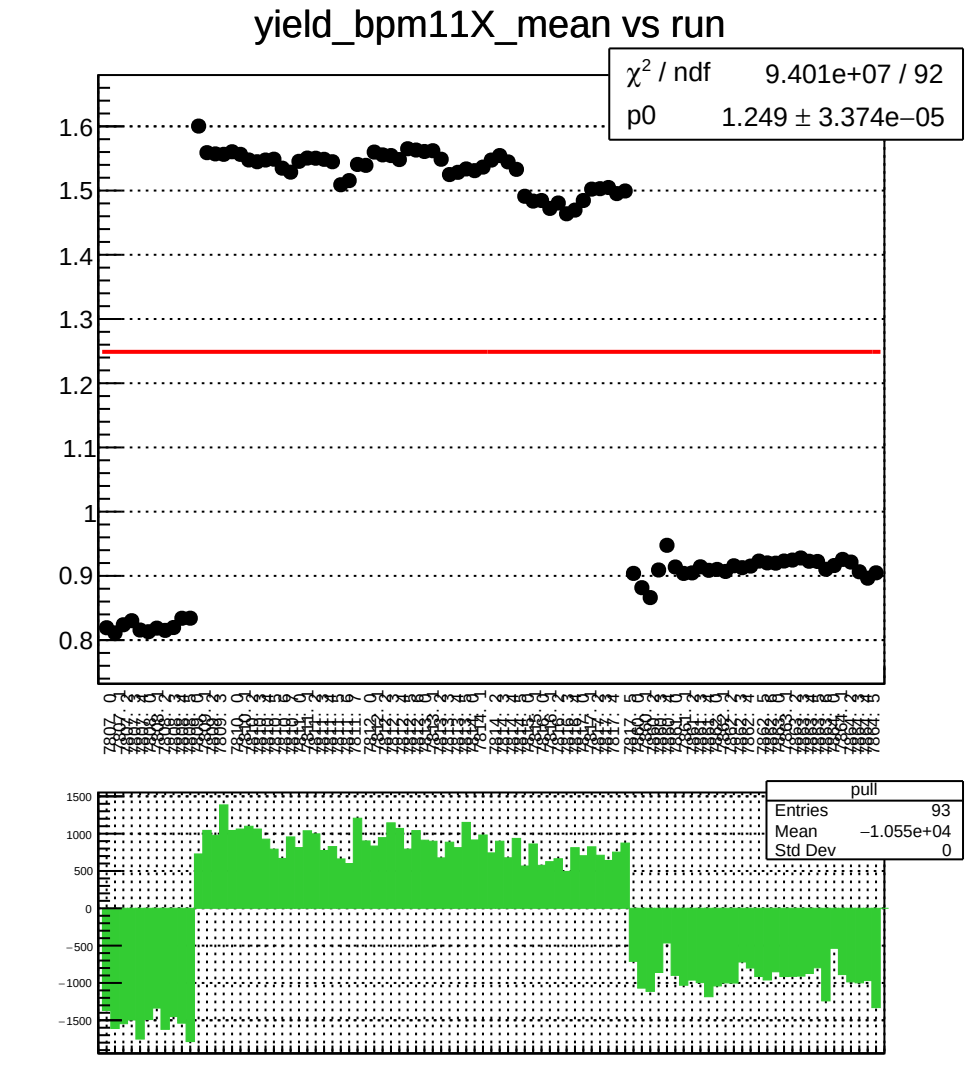

yield_bpm1X_mean vs run
χ² / ndf 3.866e+08 / 92
p0 −0.9901 ± 7.158e−05
pull
Entries 93
Mean −546.2
Std Dev 0
pull1D
Entries 93
Mean 0
Std Dev 0

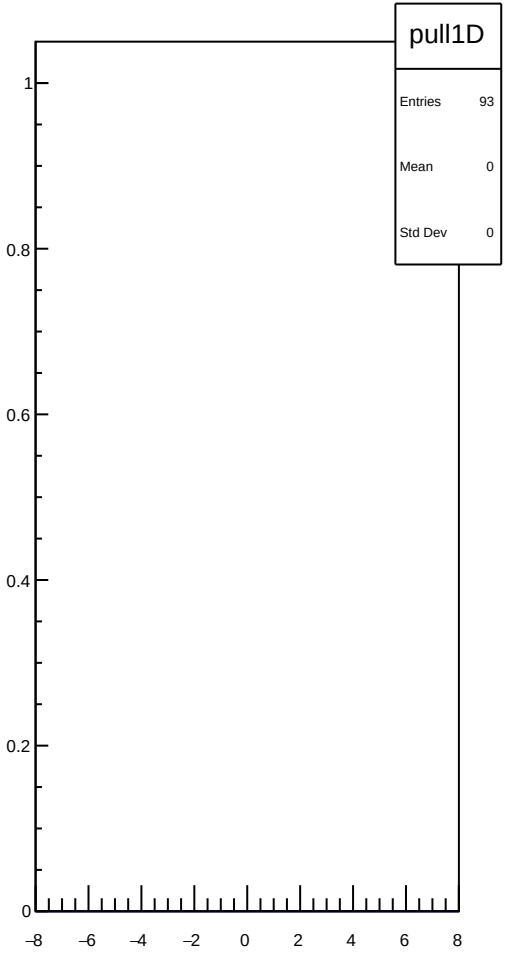

yield_bpm1X_rms vs run
χ² / ndf 4.682e+04 / 92
p0 0.068 ± 5.062e–05
0.3
0.25
0.2
0.15
0.1
0.05

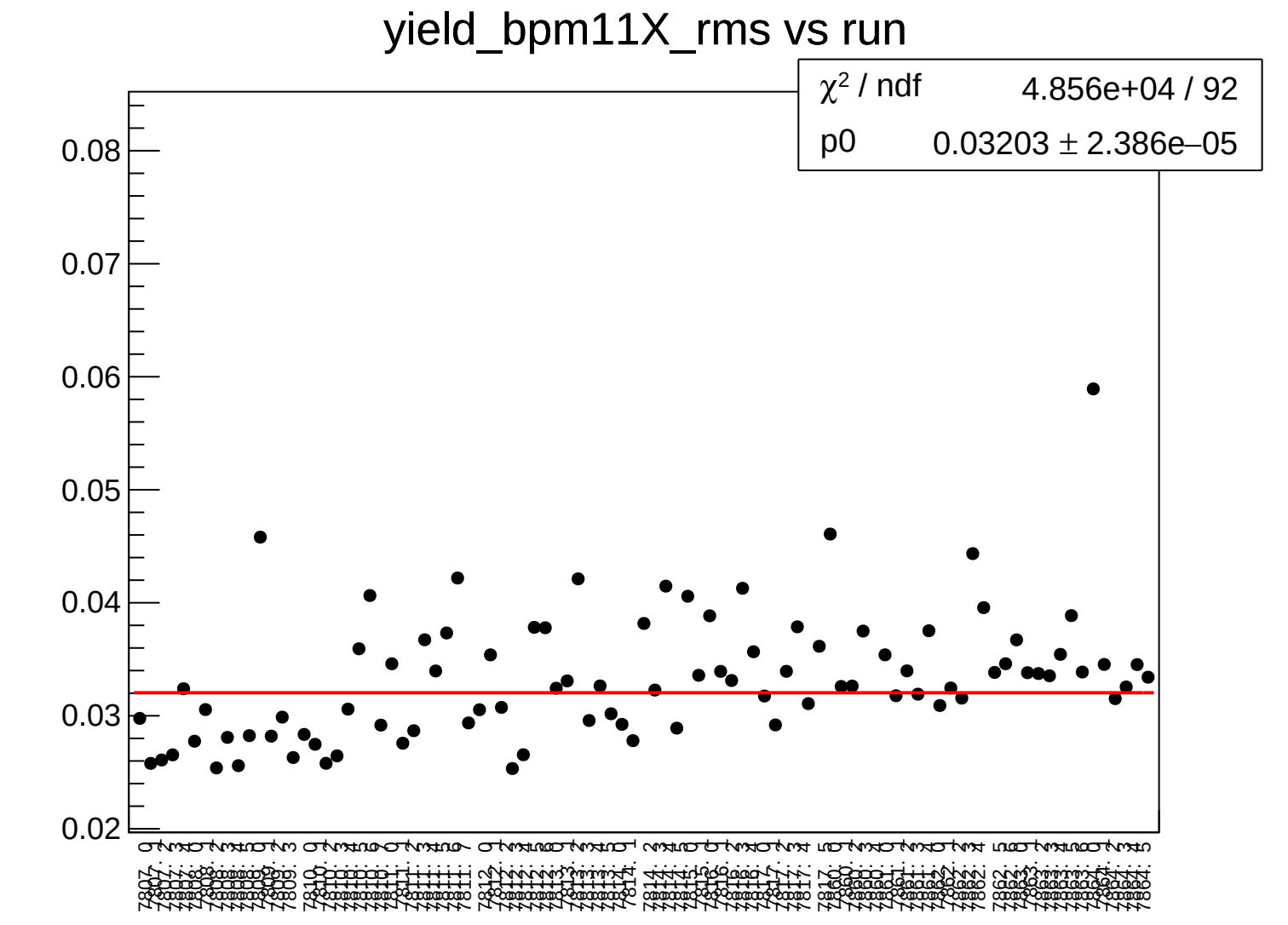

yield_bpm1Y_mean vs run
χ² / ndf 1.793e+09 / 92
p0 1.856 ± 2.347e−05
pull
Entries 93
Mean −205.8
Std Dev 0

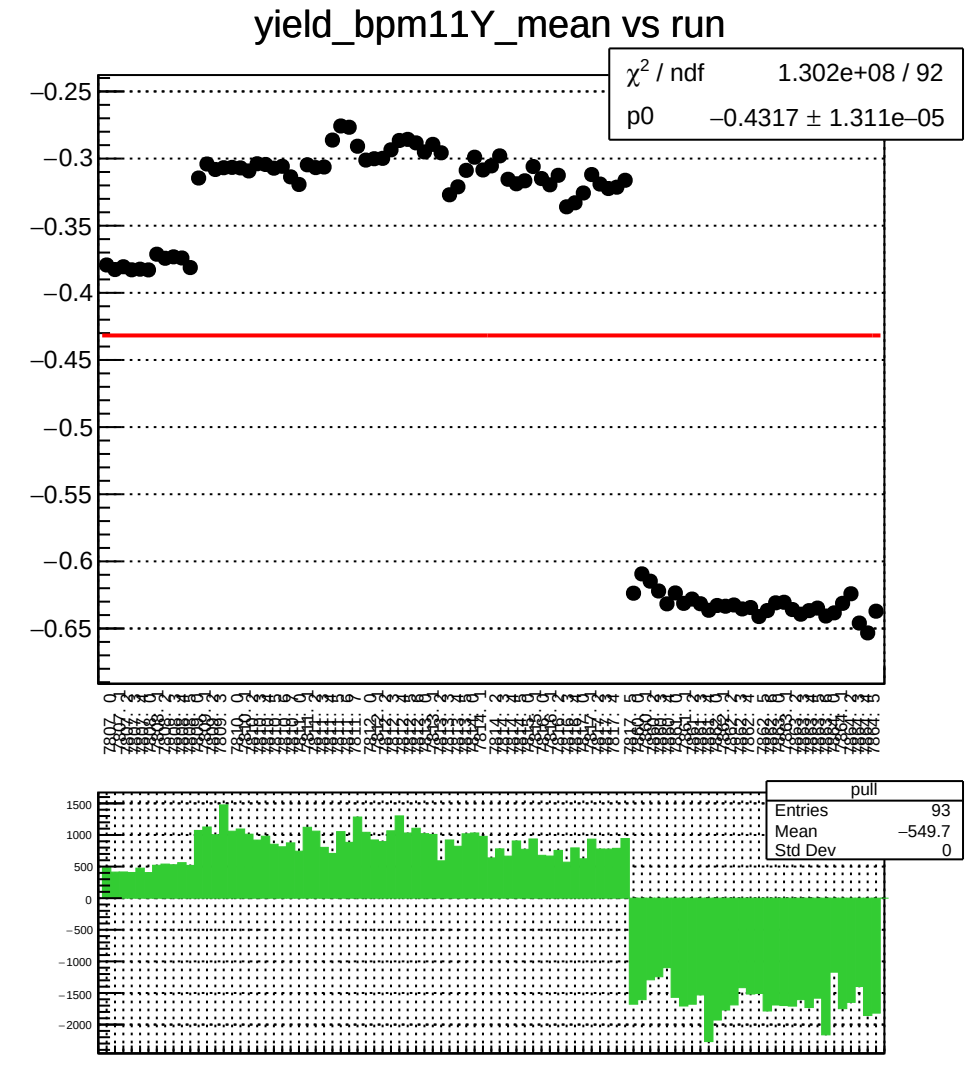

pull1D
Entries 93
Mean 0
Std Dev 0

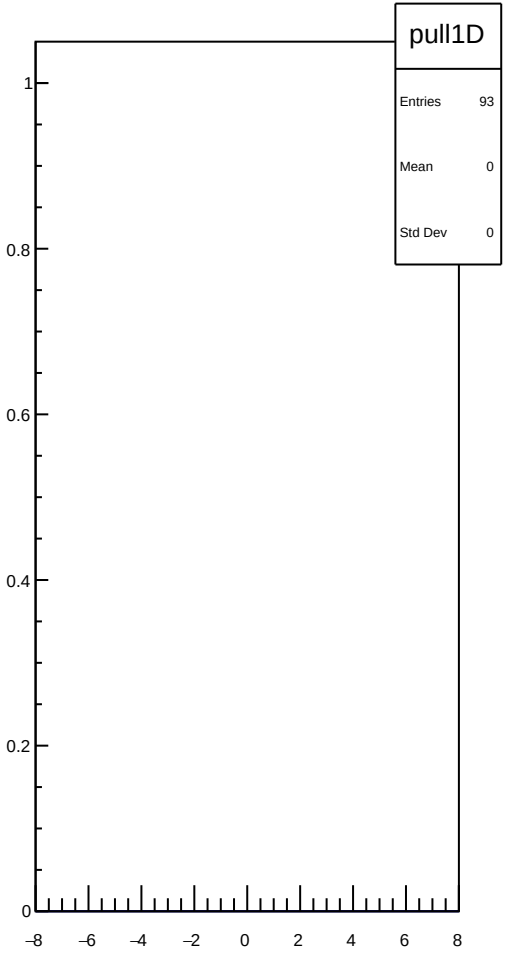

yield_bpm1Y_rms vs run
χ² / ndf 2.334e+05 / 92
p0 0.02111 ± 1.659e–05
0.12
0.1
0.08
0.06
0.04
0.02

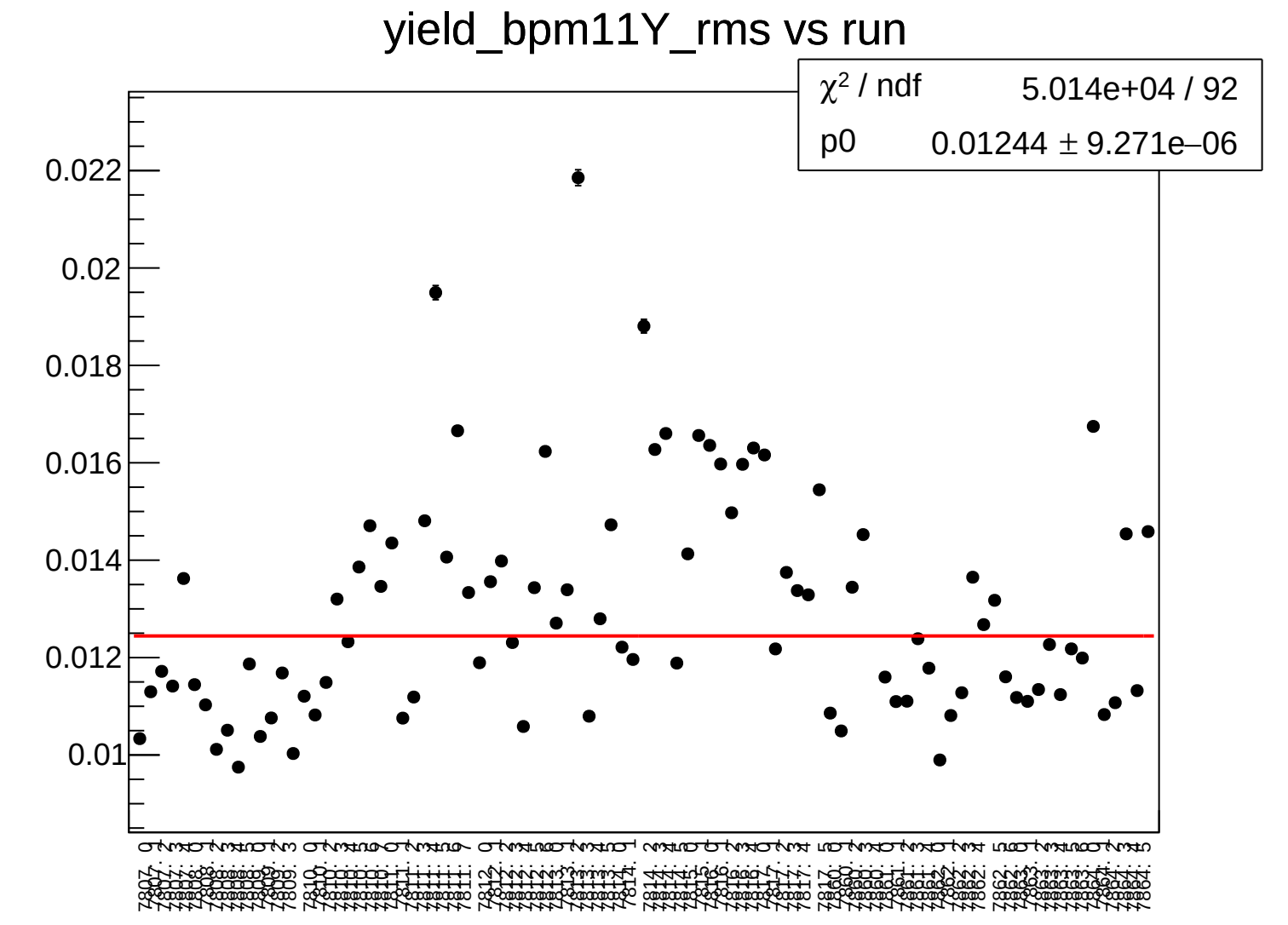

yield_bpm11X_mean vs run
χ² / ndf 9.401e+07 / 92
p0 1.249 ± 3.374e−05
1.6
1.5
1.4
1.3
1.2
1.1
1
0.9
0.8
pull
Entries 93
Mean −1.055e+04
Std Dev 0
1500
1000
500
0
−500
−1000
−1500

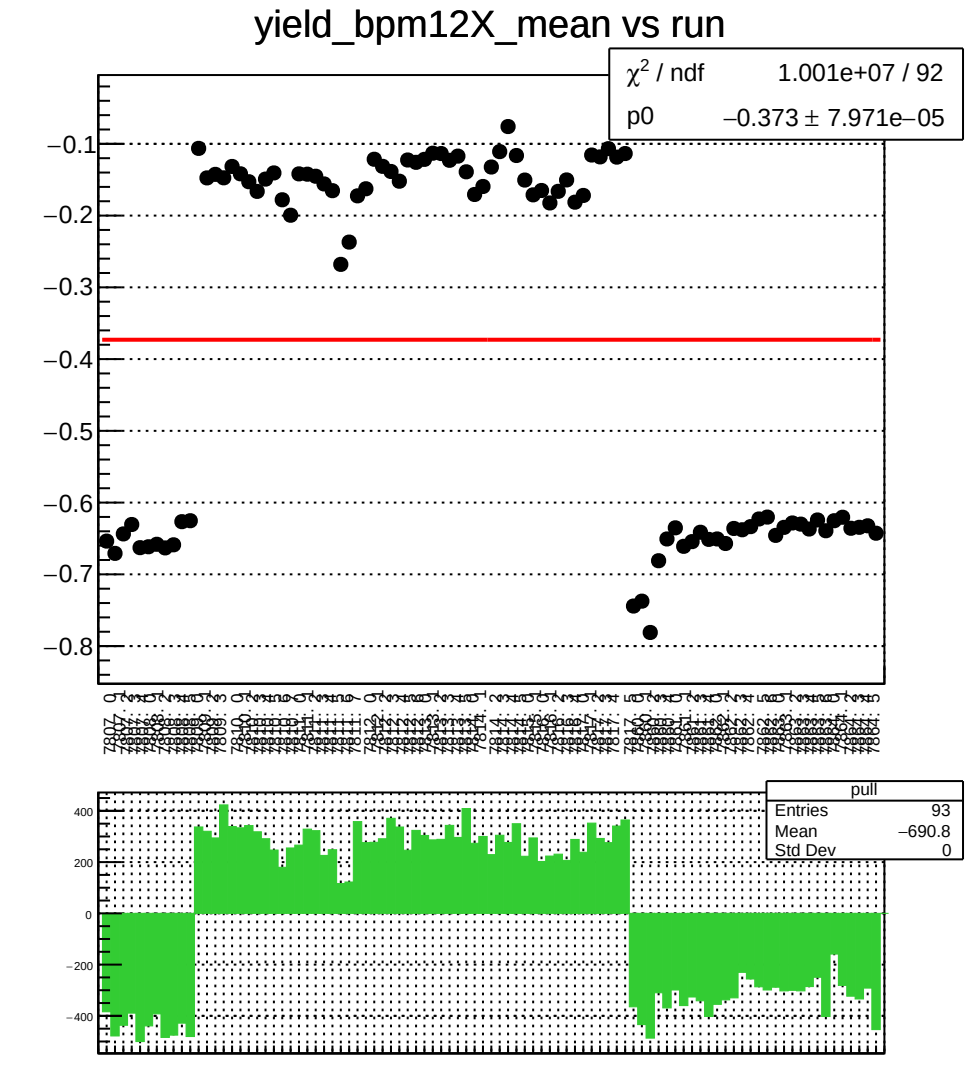

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

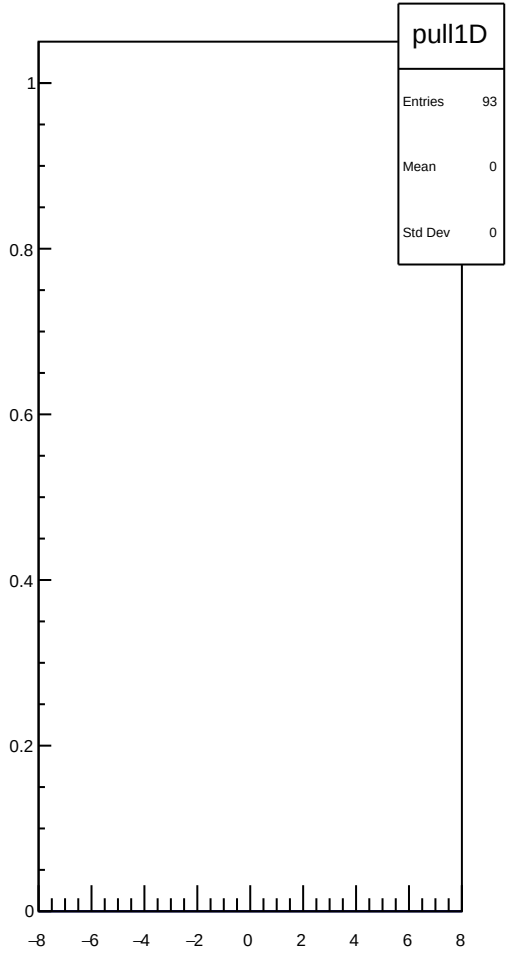

yield_bpm11X_rms vs run
χ² / ndf 4.856e+04 / 92
p0 0.03203 ± 2.386e–05
0.08
0.07
0.06
0.05
0.04
0.03
0.02

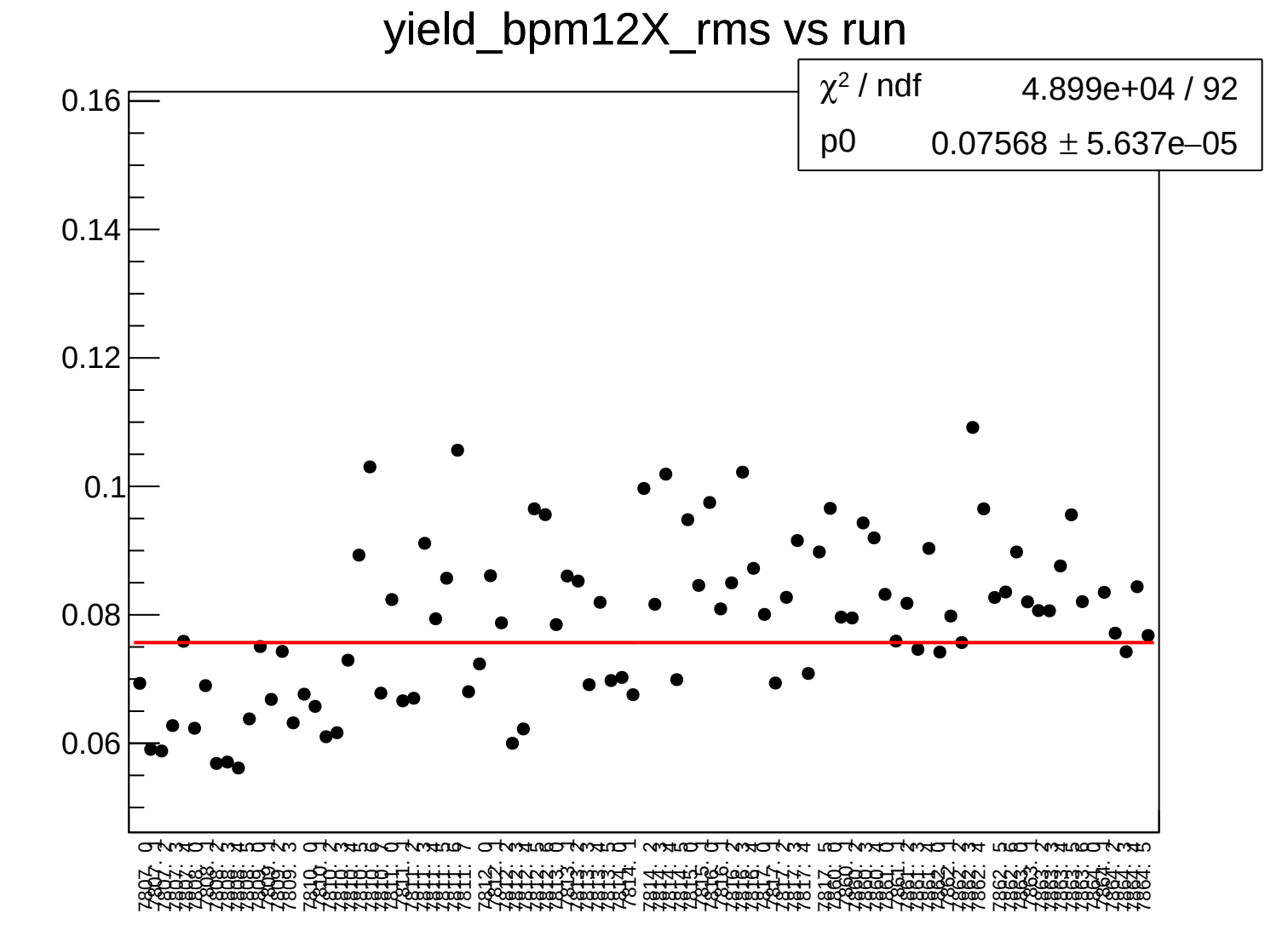

yield_bpm11Y_mean vs run
χ² / ndf 1.302e+08 / 92
p0 −0.4317 ± 1.311e−05
−0.25
−0.3
−0.35
−0.4
−0.45
−0.5
−0.55
−0.6
−0.65
pull
Entries 93
Mean −549.7
Std Dev 0
1500
1000
500
0
−500
−1000
−1500
−2000

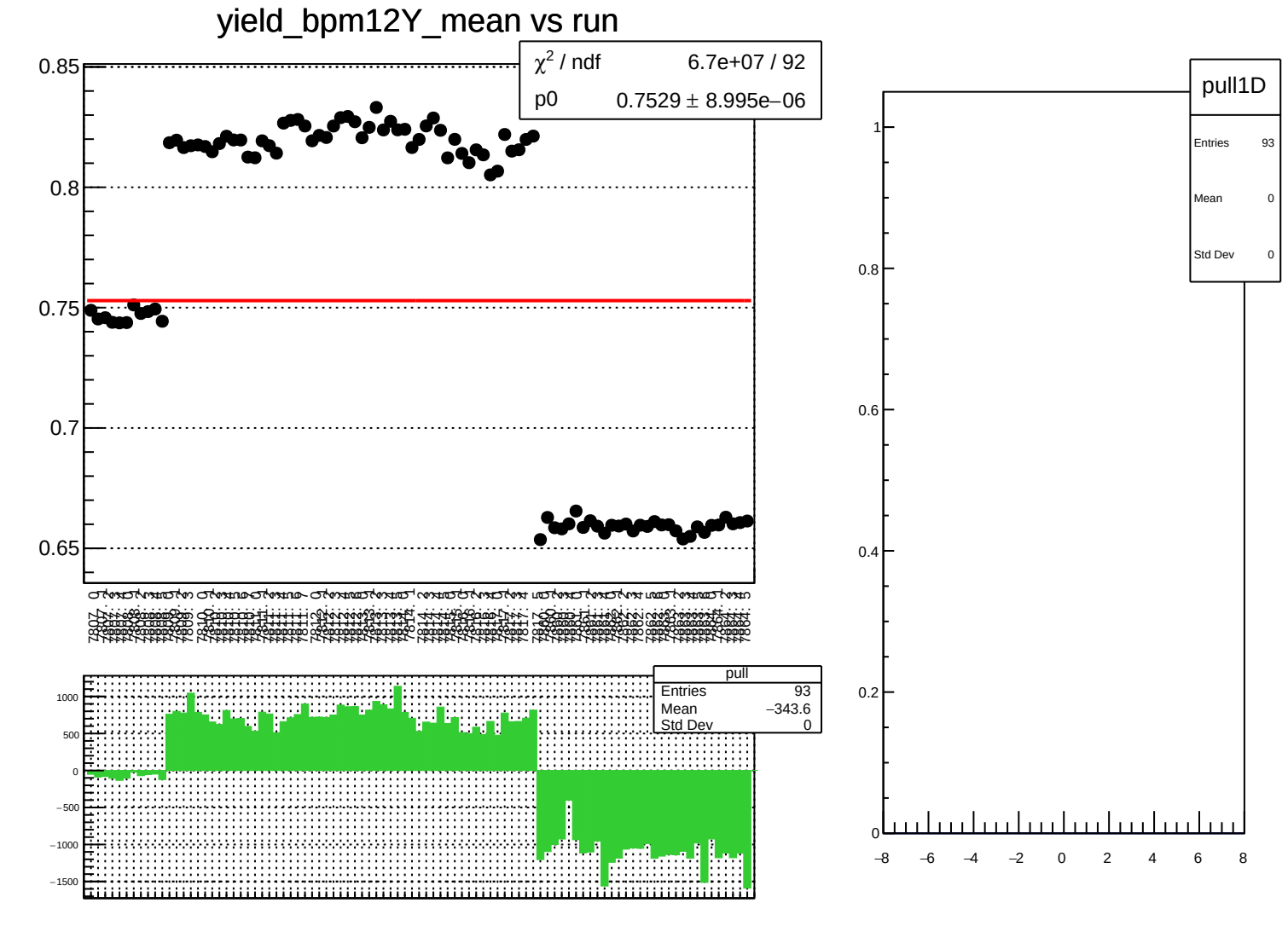

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

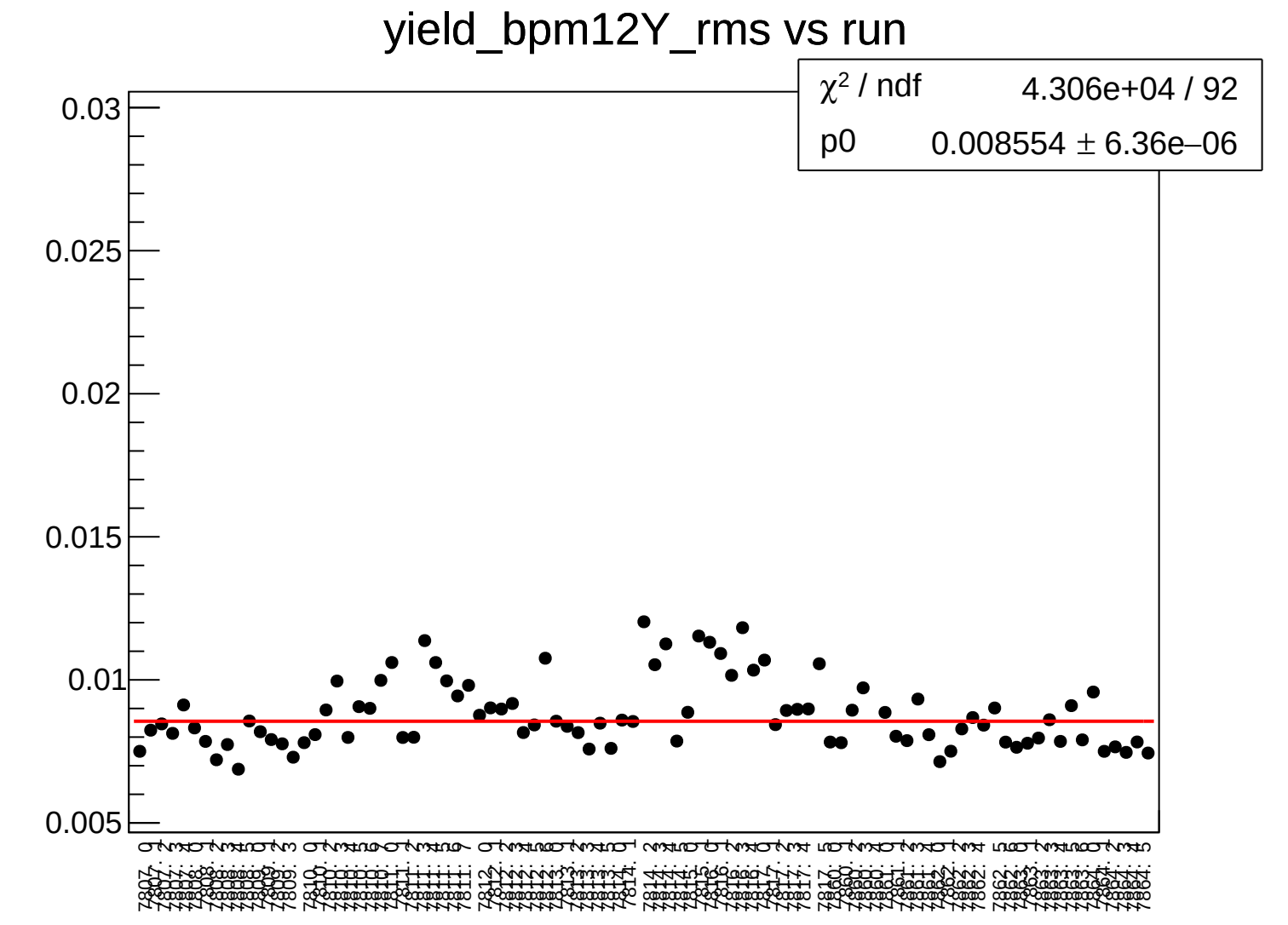

yield_bpm11Y_rms vs run
χ² / ndf 5.014e+04 / 92
p0 0.01244 ± 9.271e–06
0.022
0.02
0.018
0.016
0.014
0.012
0.01

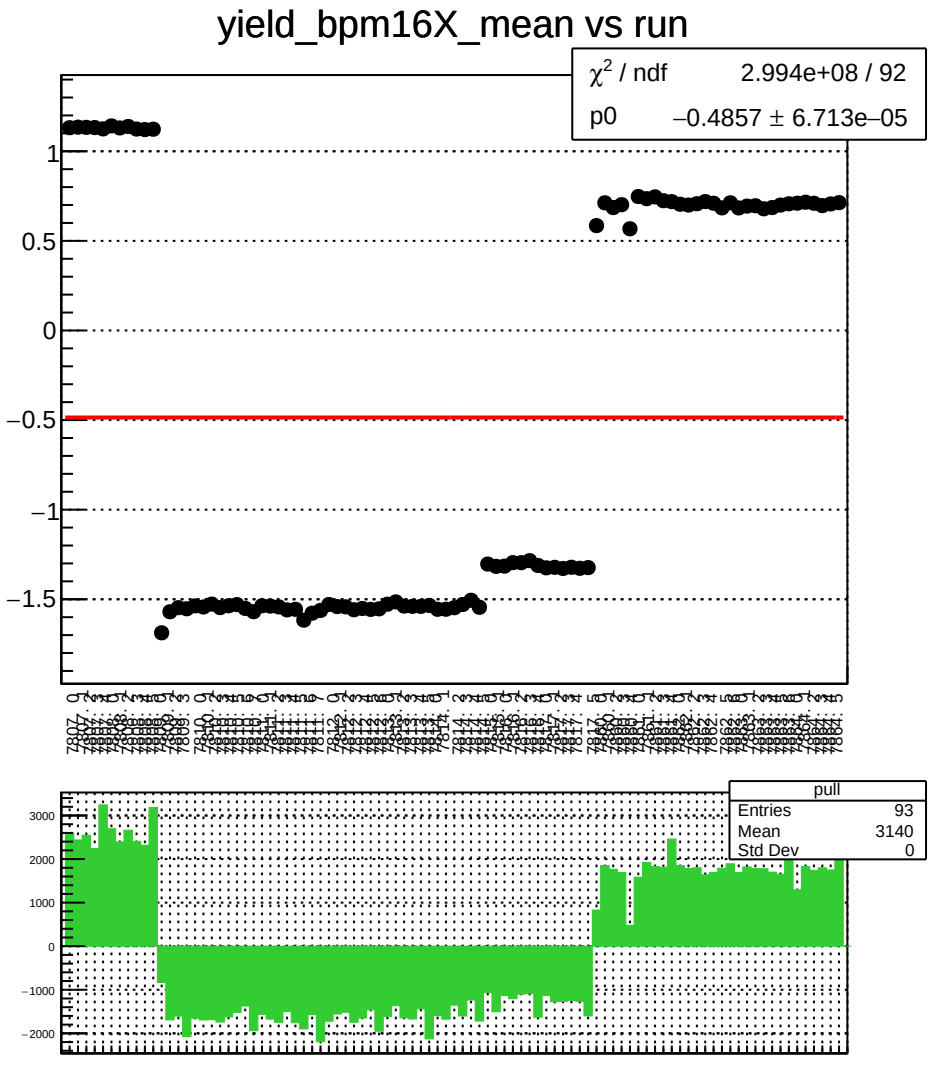

yield_bpm12X_mean vs run
χ² / ndf 1.001e+07 / 92
p0 −0.373 ± 7.971e−05
pull
Entries 93
Mean −690.8
Std Dev 0

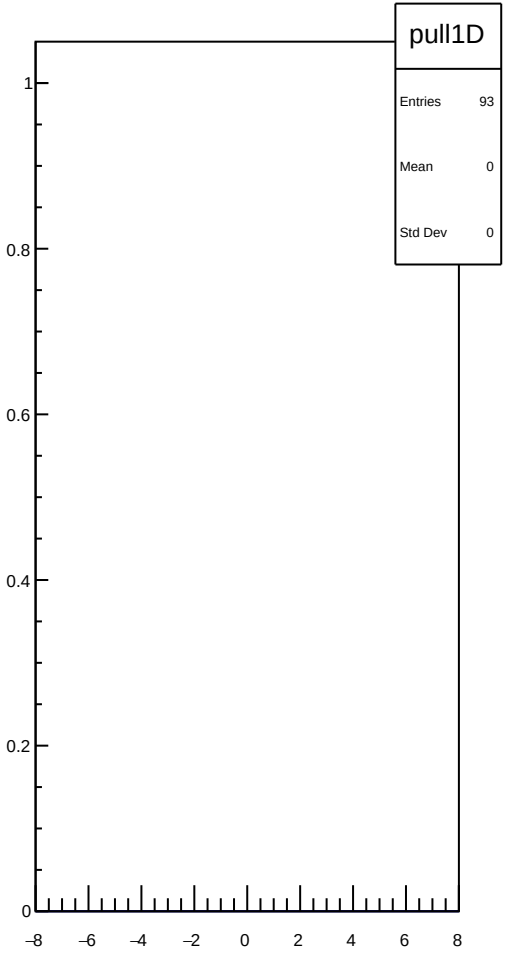

pull1D
Entries 93
Mean 0
Std Dev 0

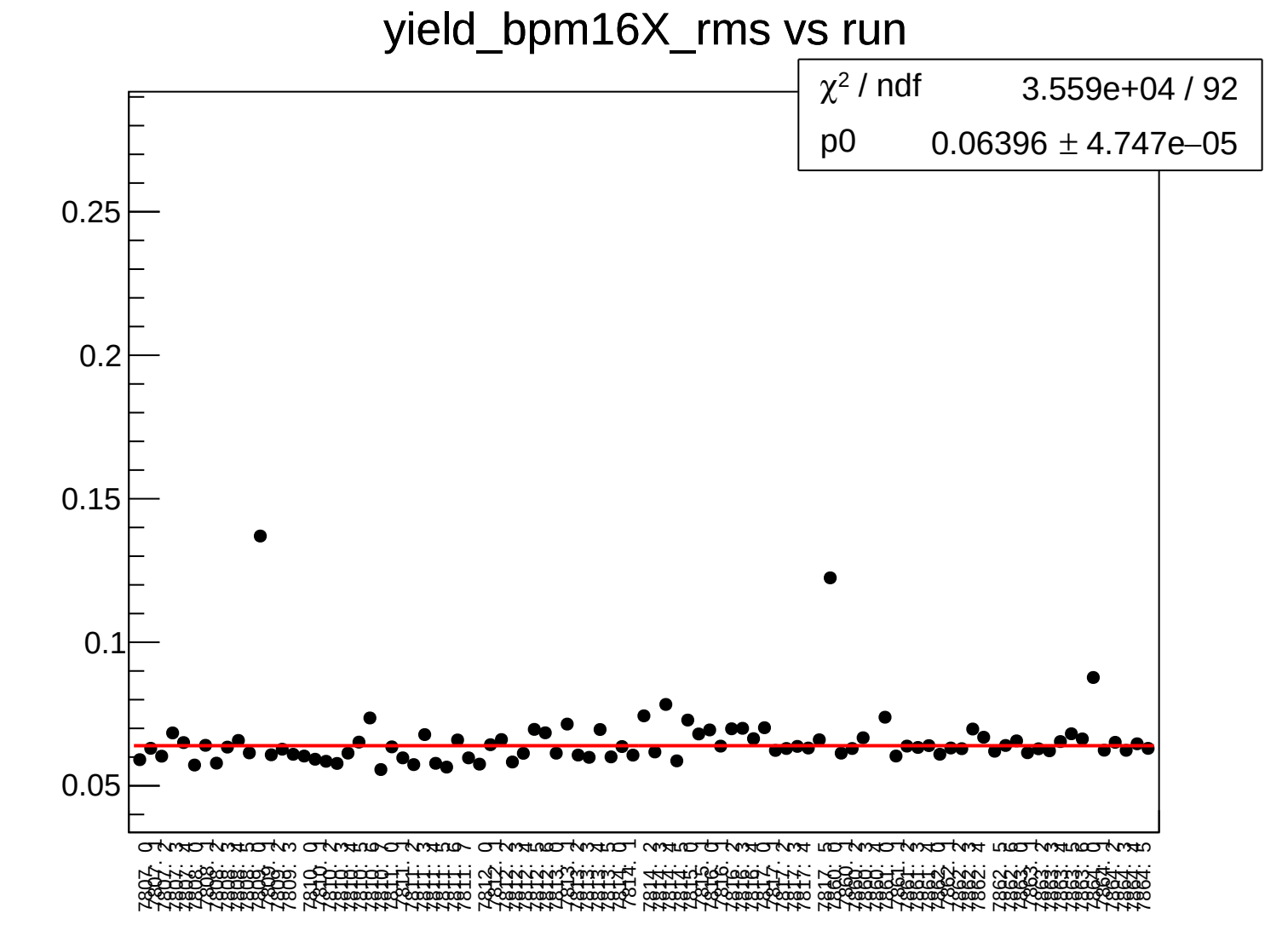

yield_bpm12X_rms vs run
χ² / ndf 4.899e+04 / 92
p0 0.07568 ± 5.637e–05
0.16
0.14
0.12
0.1
0.08
0.06

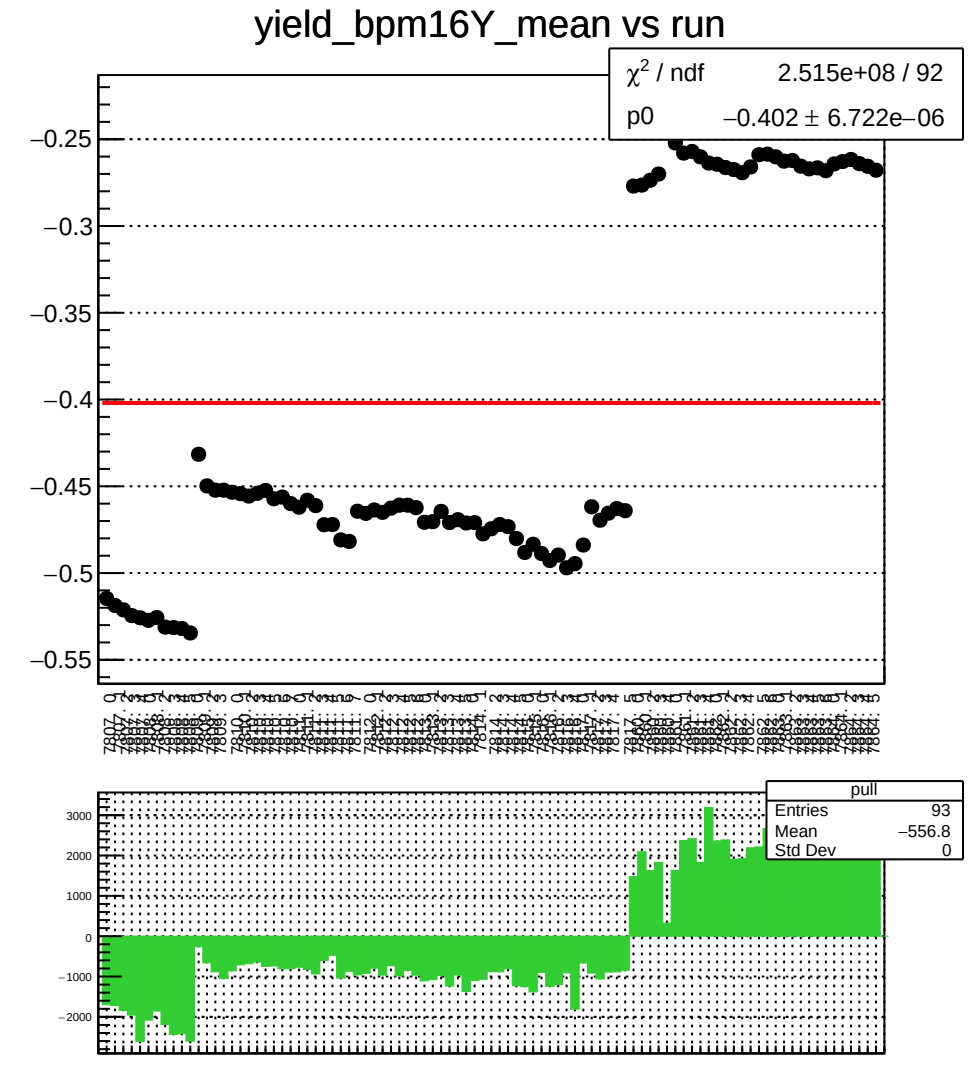

yield_bpm12Y_mean vs run
χ² / ndf 6.7e+07 / 92
p0 0.7529 ± 8.995e−06
0.85
0.8
0.75
0.7
0.65
pull
Entries 93
Mean −343.6
Std Dev 0
1000
500
0
−500
−1000
−1500
pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

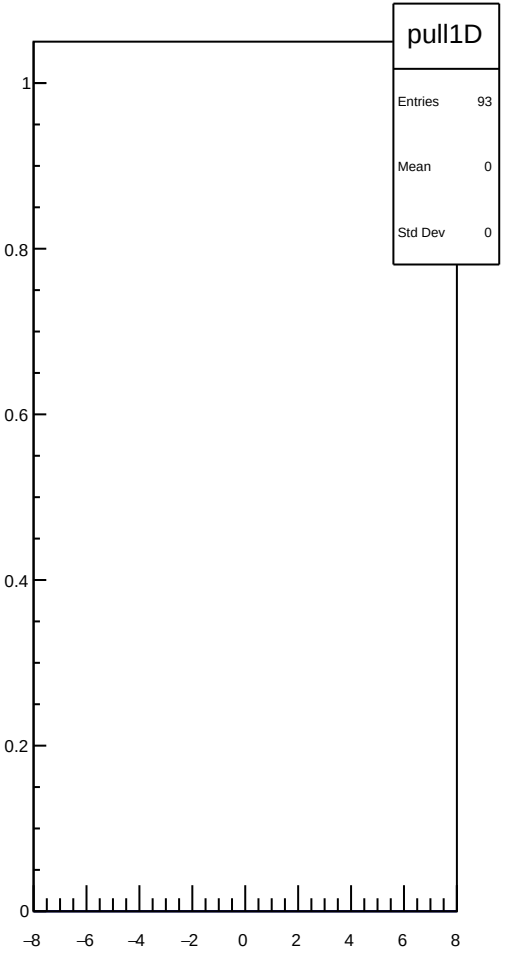

yield_bpm12Y_rms vs run
χ² / ndf 4.306e+04 / 92
p0 0.008554 ± 6.36e–06
0.03
0.025
0.02
0.015
0.01
0.005

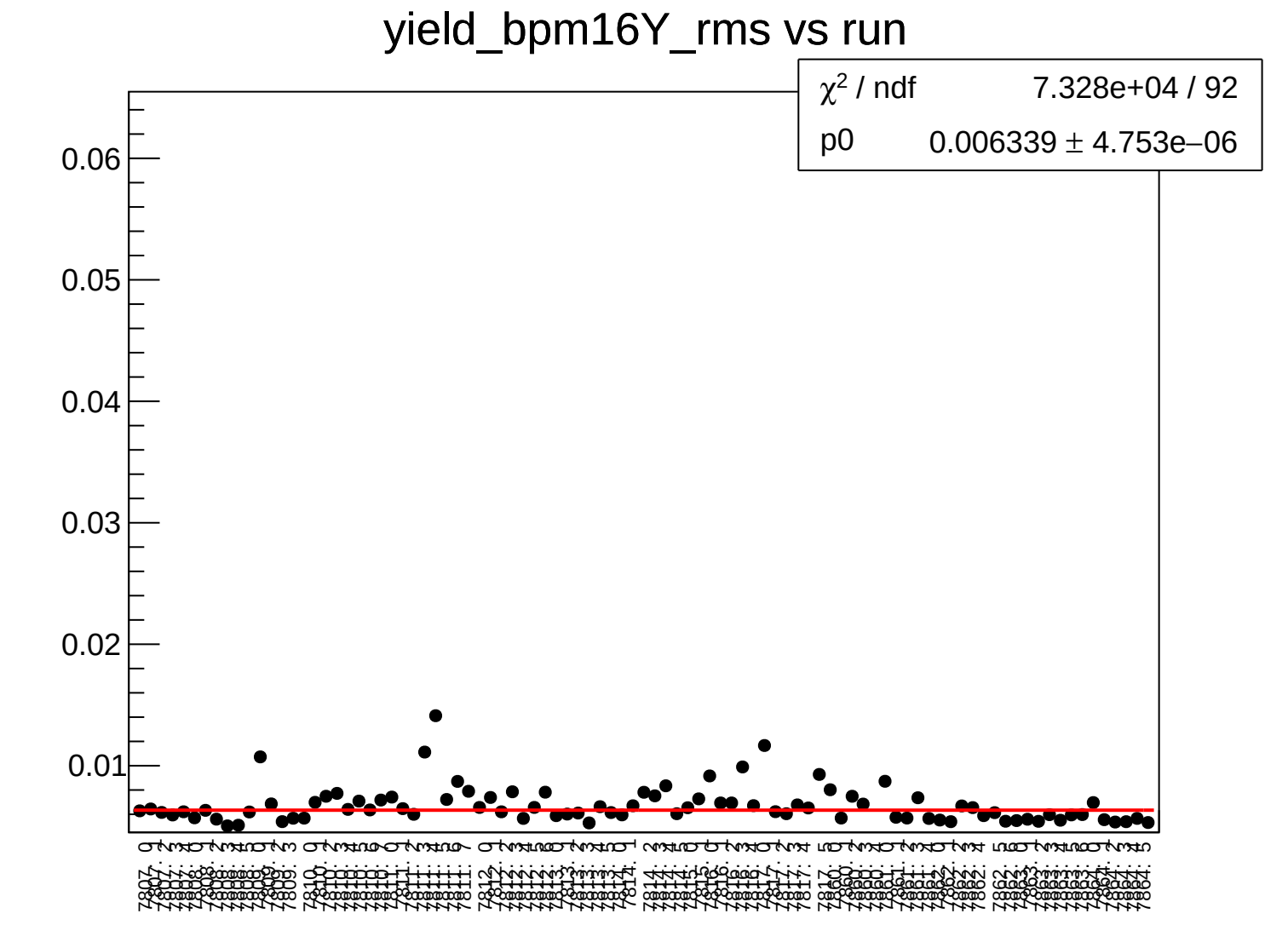

yield_bpm16X_mean vs run
χ² / ndf 2.994e+08 / 92
p0 −0.4857 ± 6.713e−05
pull
Entries 93
Mean 3140
Std Dev 0

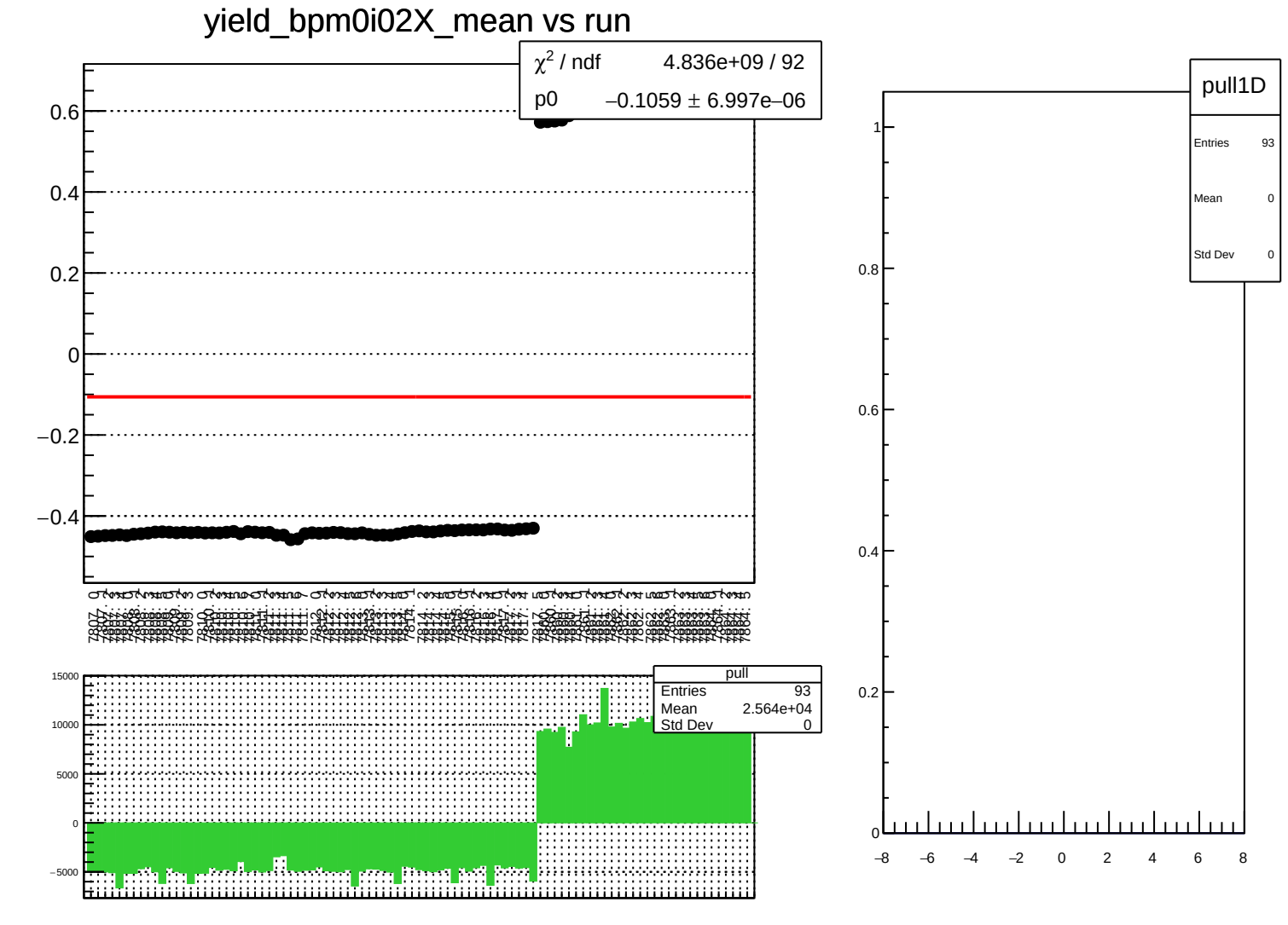

pull1D
Entries 93
Mean 0
Std Dev 0

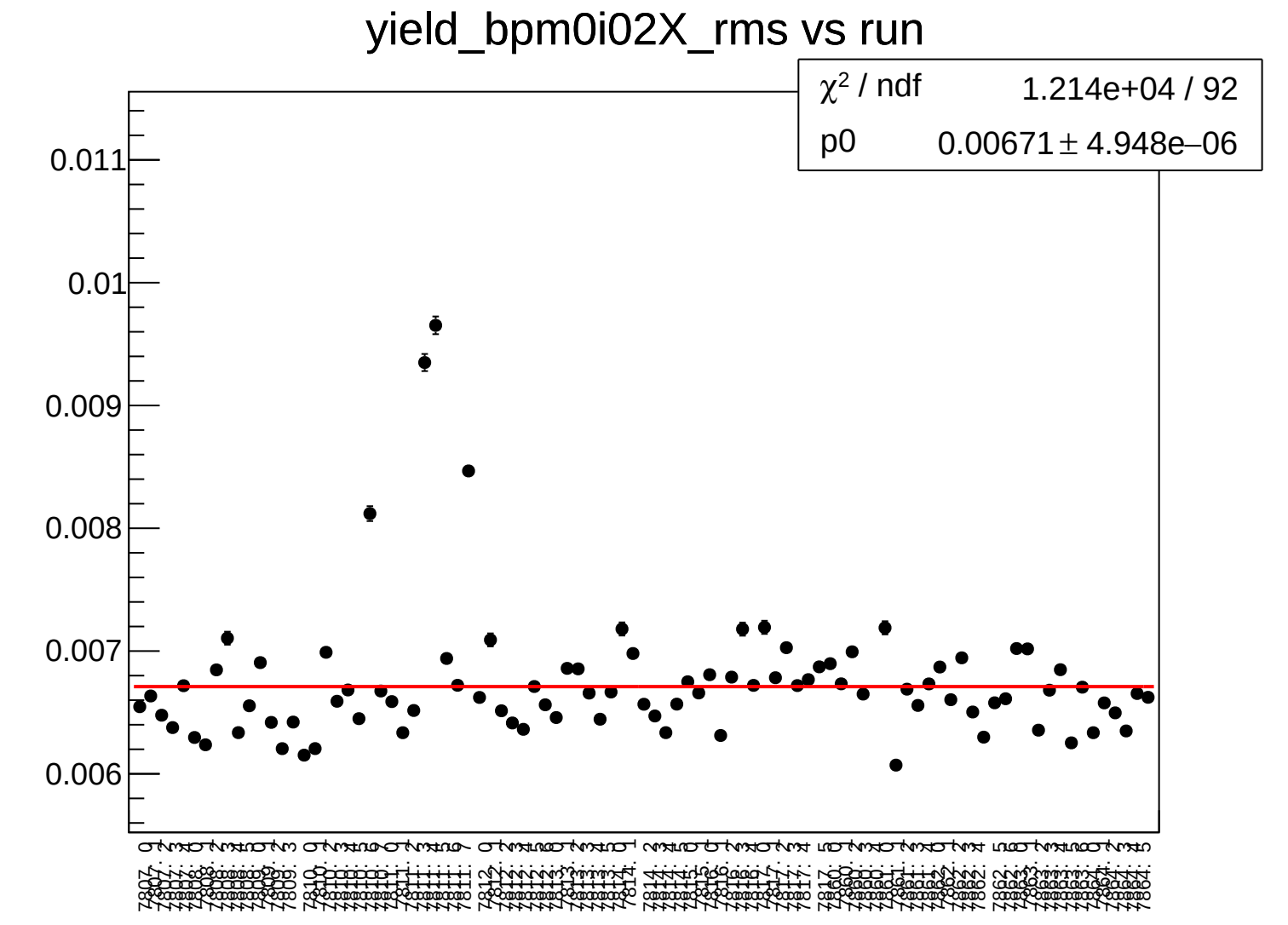

yield_bpm16X_rms vs run
χ² / ndf 3.559e+04 / 92
p0 0.06396 ± 4.747e–05
0.25
0.2
0.15
0.1
0.05

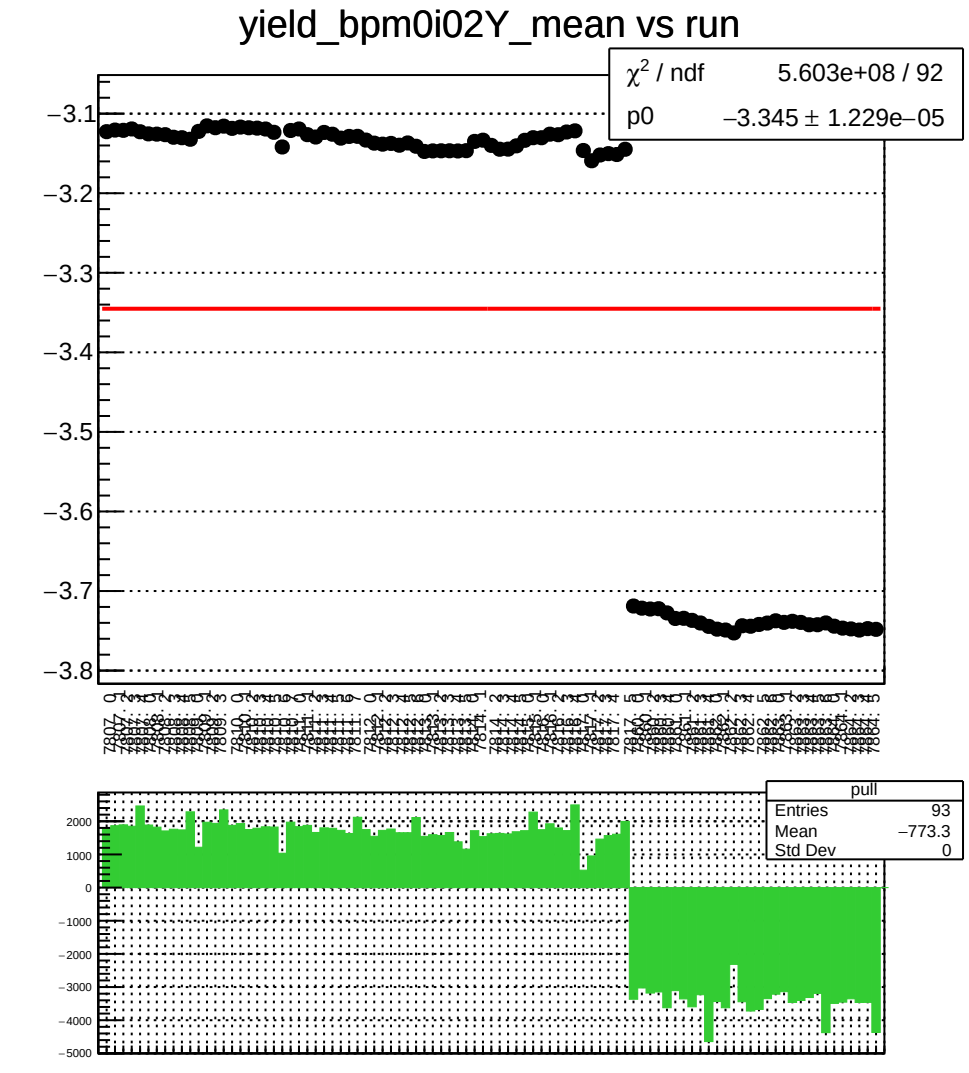

yield_bpm16Y_mean vs run
χ² / ndf 2.515e+08 / 92
p0 −0.402 ± 6.722e−06
−0.25
−0.3
−0.35
−0.4
−0.45
−0.5
−0.55
pull
Entries 93
Mean −556.8
Std Dev 0
3000
2000
1000
0
−1000
−2000

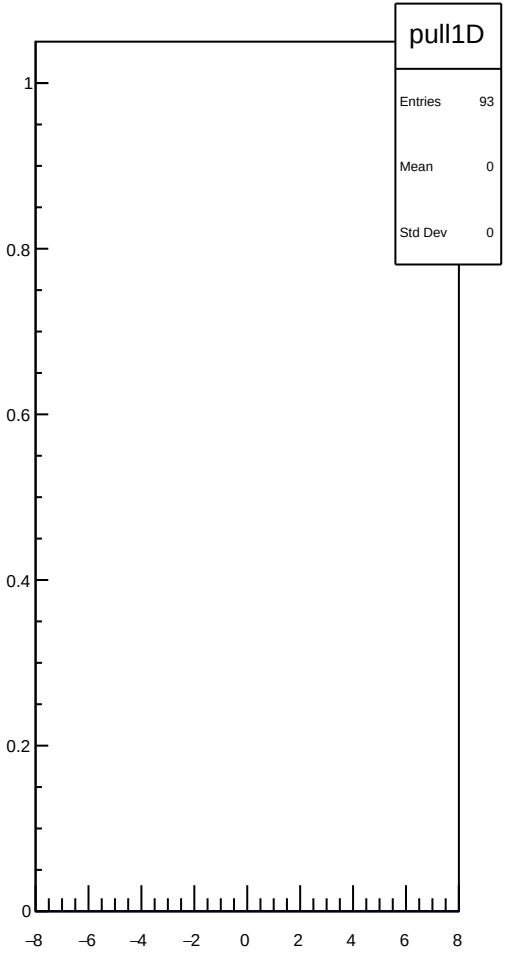

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

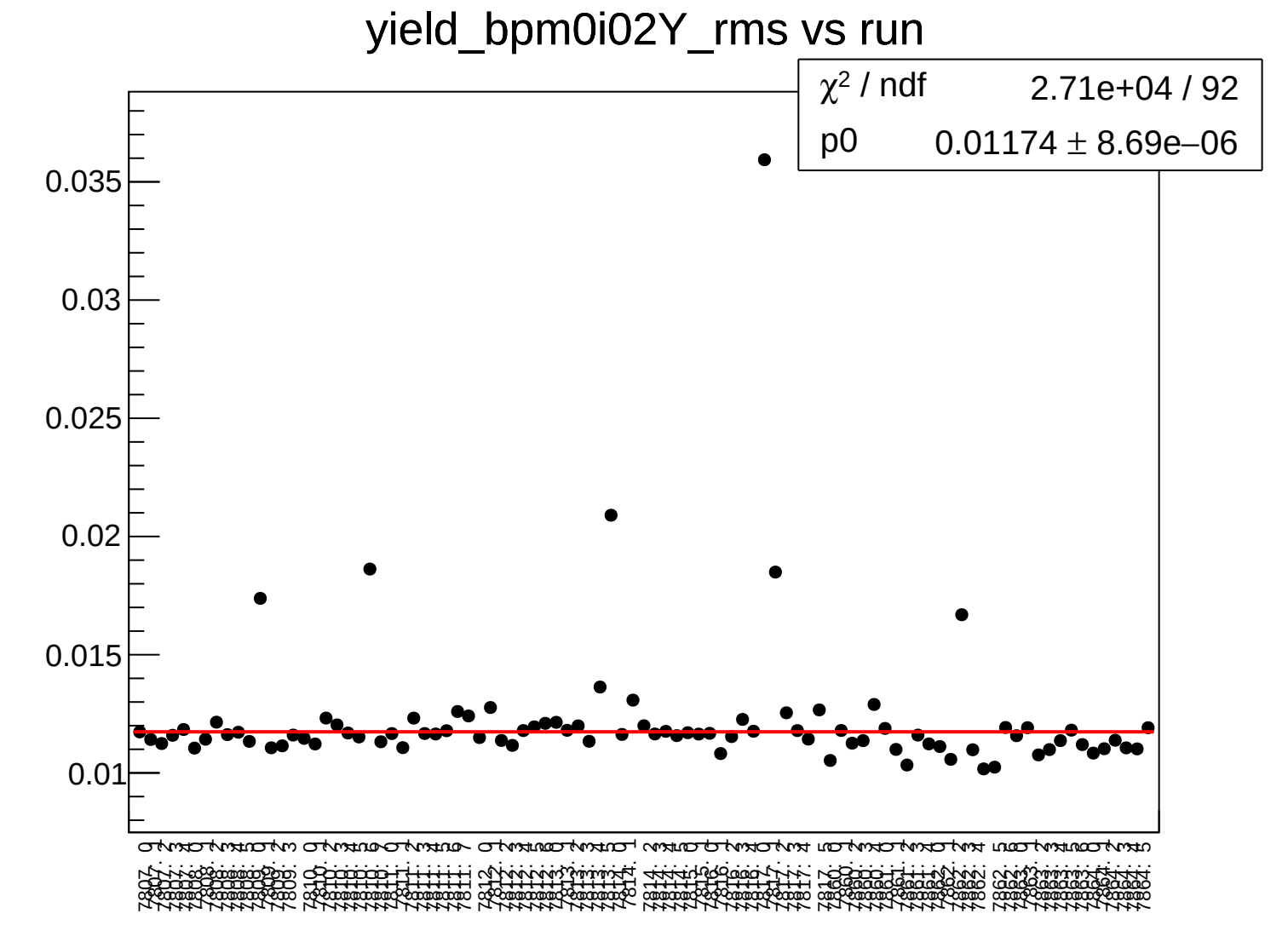

yield_bpm16Y_rms vs run
χ² / ndf 7.328e+04 / 92
p0 0.006339 ± 4.753e−06
0.06
0.05
0.04
0.03
0.02
0.01

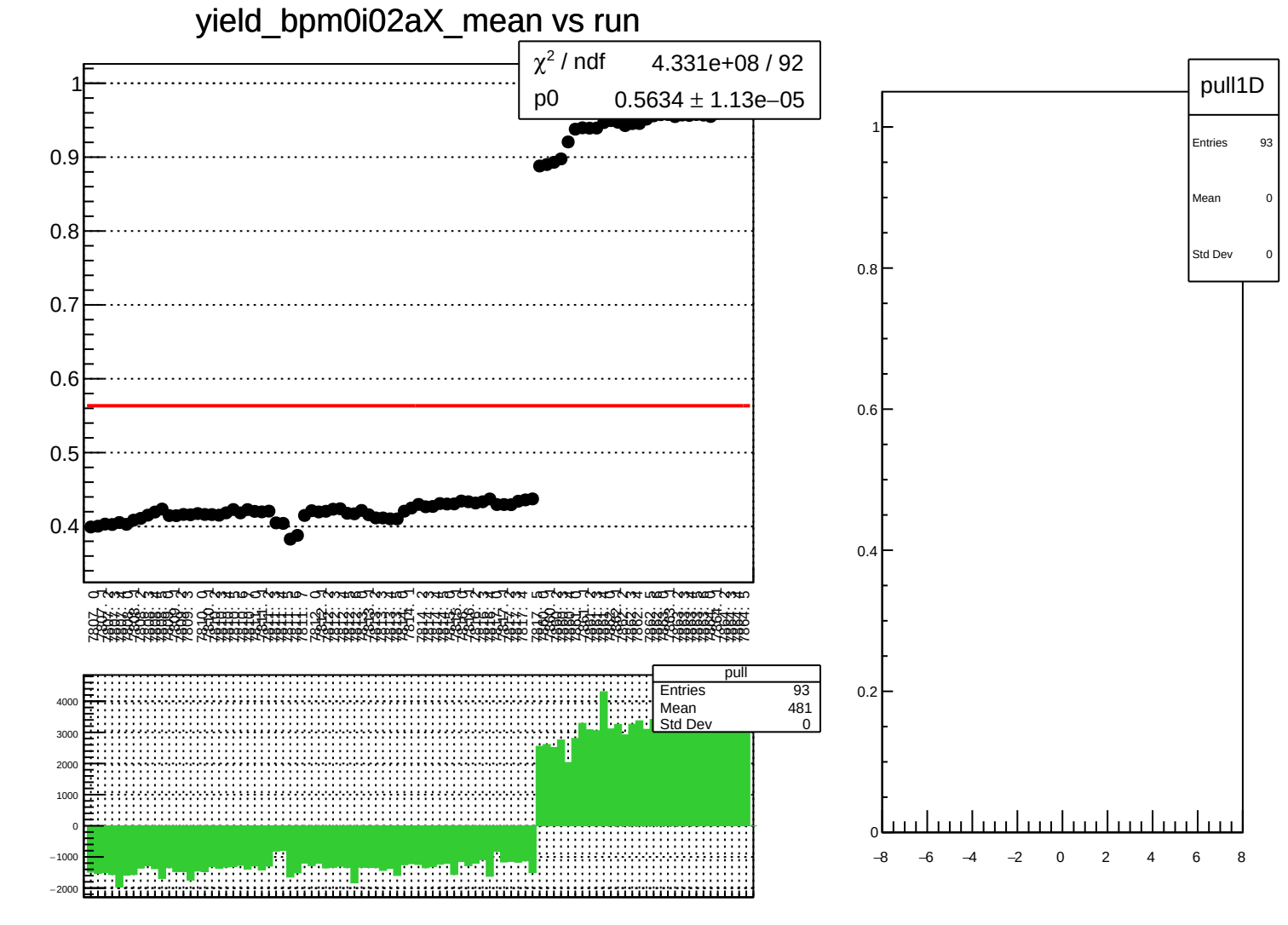

yield_bpm0i02X_mean vs run
χ² / ndf 4.836e+09 / 92
p0 −0.1059 ± 6.997e−06
0.6
0.4
0.2
0
−0.2
−0.4
pull
Entries 93
Mean 2.564e+04
Std Dev 0
15000
10000
5000
0
−5000
pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

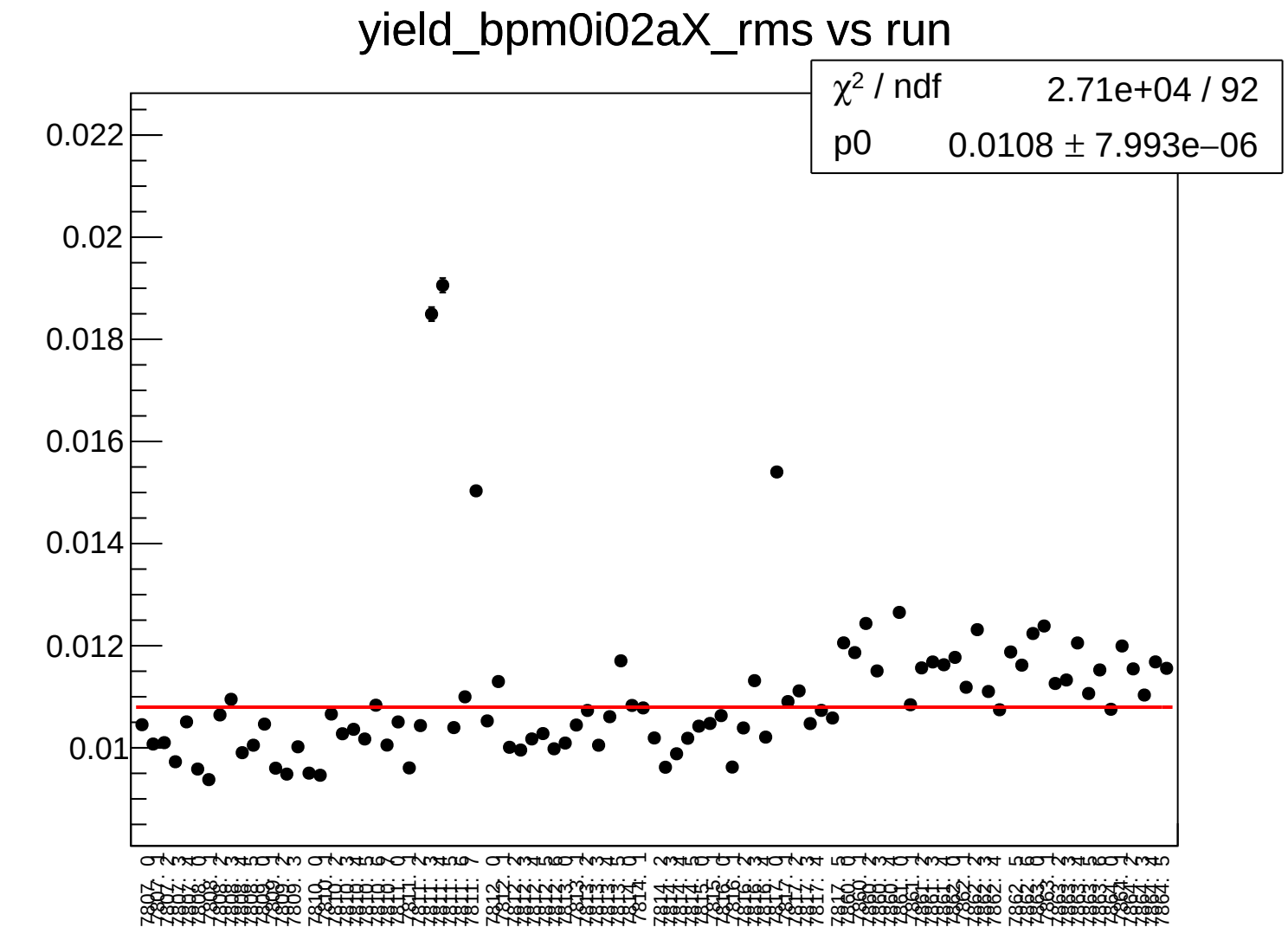

yield_bpm0i02X_rms vs run
χ² / ndf 1.214e+04 / 92
p0 0.00671 ± 4.948e–06
0.011
0.01
0.009
0.008
0.007
0.006

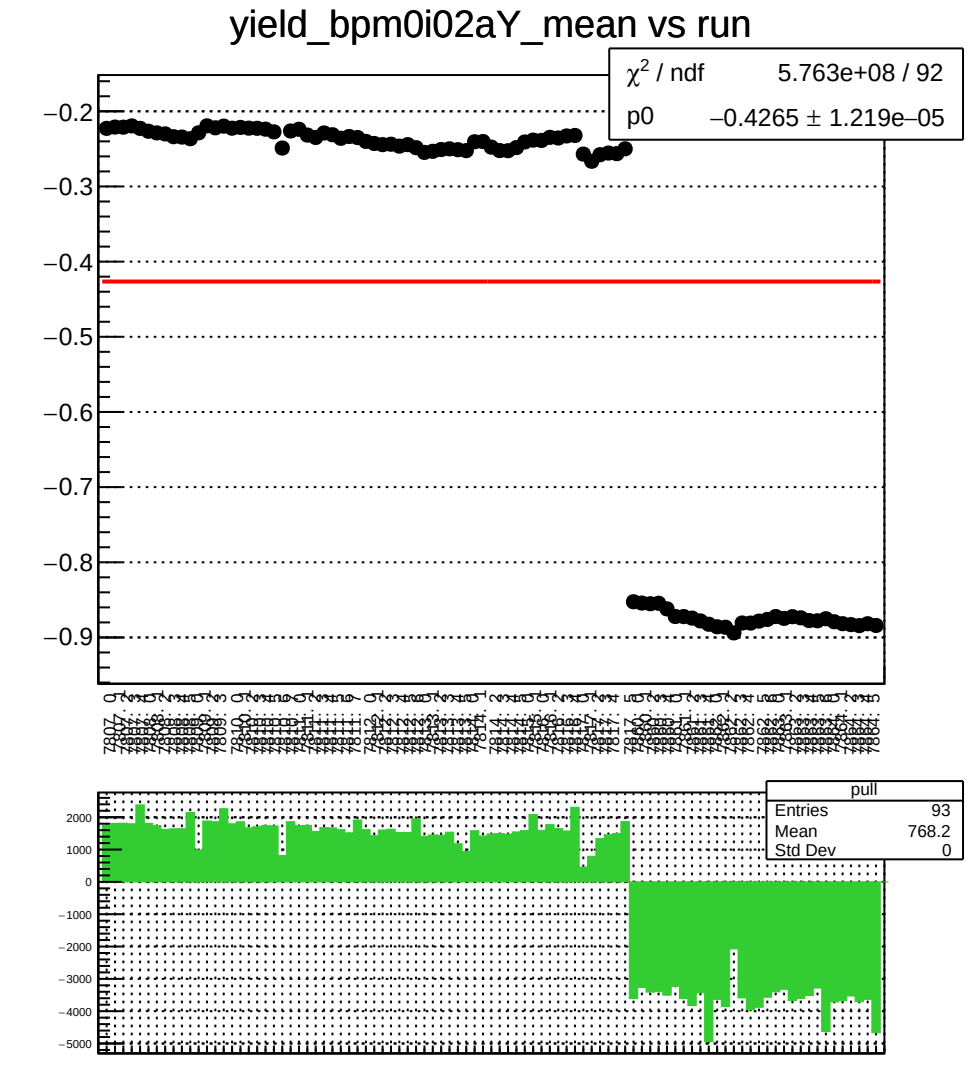

yield_bpm0i02Y_mean vs run
χ² / ndf 5.603e+08 / 92
p0 −3.345 ± 1.229e−05
−3.1
−3.2
−3.3
−3.4
−3.5
−3.6
−3.7
−3.8
pull
Entries 93
Mean −773.3
Std Dev 0
2000
1000
0
−1000
−2000
−3000
−4000
−5000

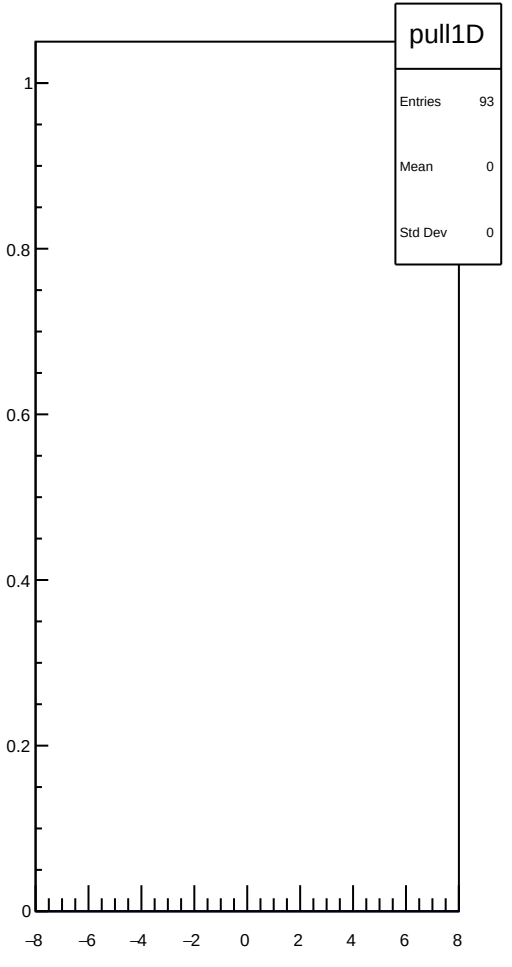

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

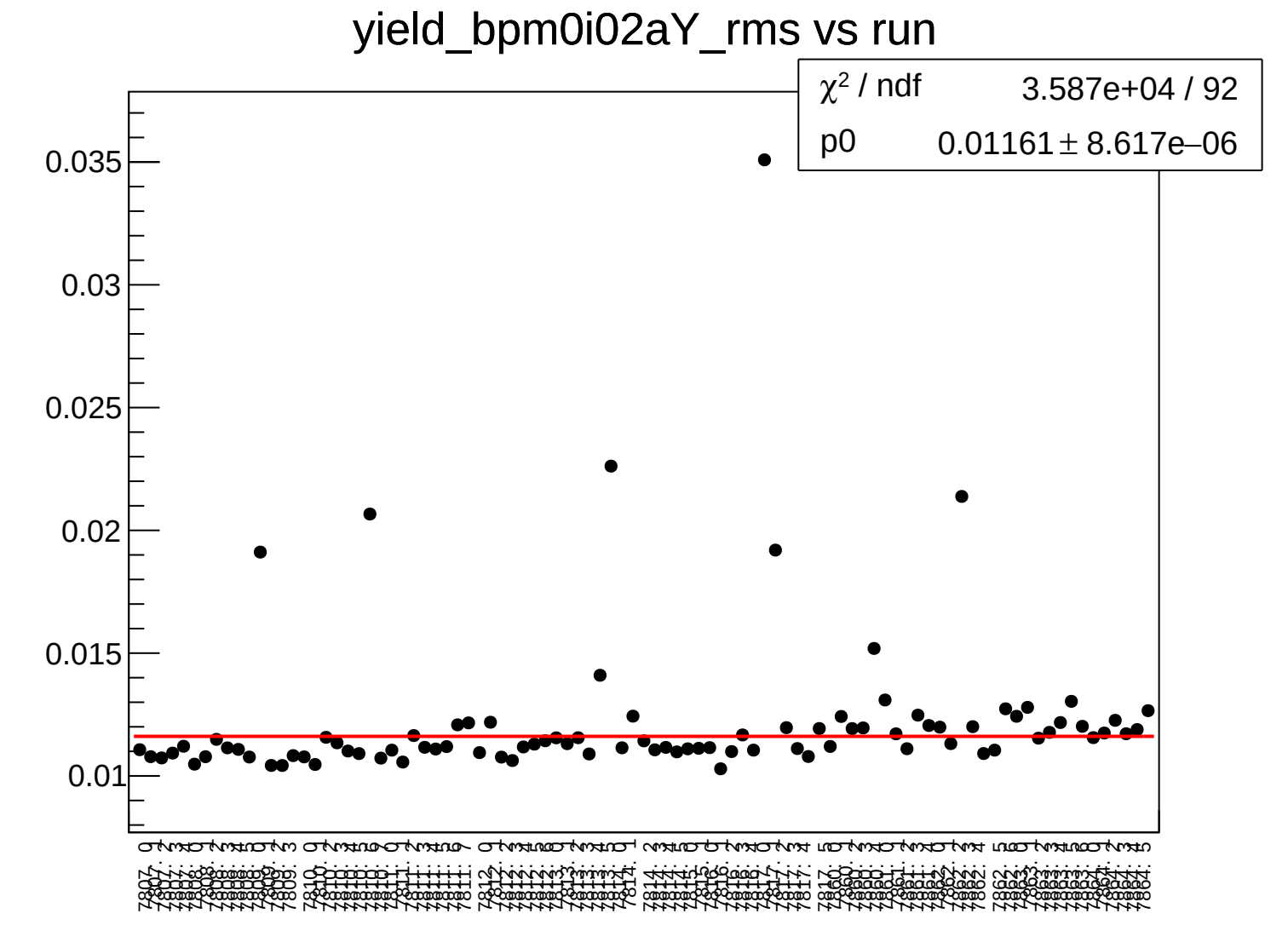

yield_bpm0i02Y_rms vs run
χ^2 / ndf 2.71e+04 / 92
p0 0.01174 ± 8.69e−06
0.035
0.03
0.025
0.02
0.015
0.01

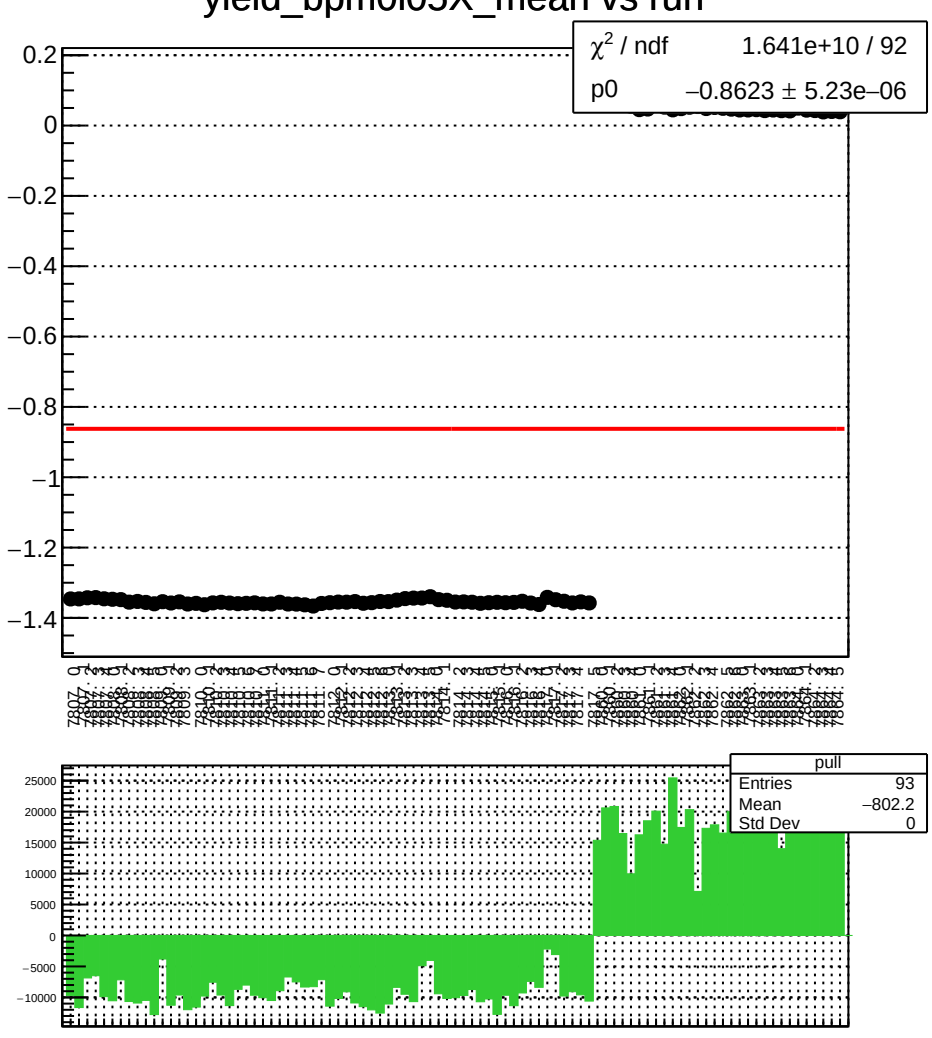

yield_bpm0i02aX_mean vs run
χ² / ndf 4.331e+08 / 92
p0 0.5634 ± 1.13e−05
pull
Entries 93
Mean 481
Std Dev 0
pull1D
Entries 93
Mean 0
Std Dev 0

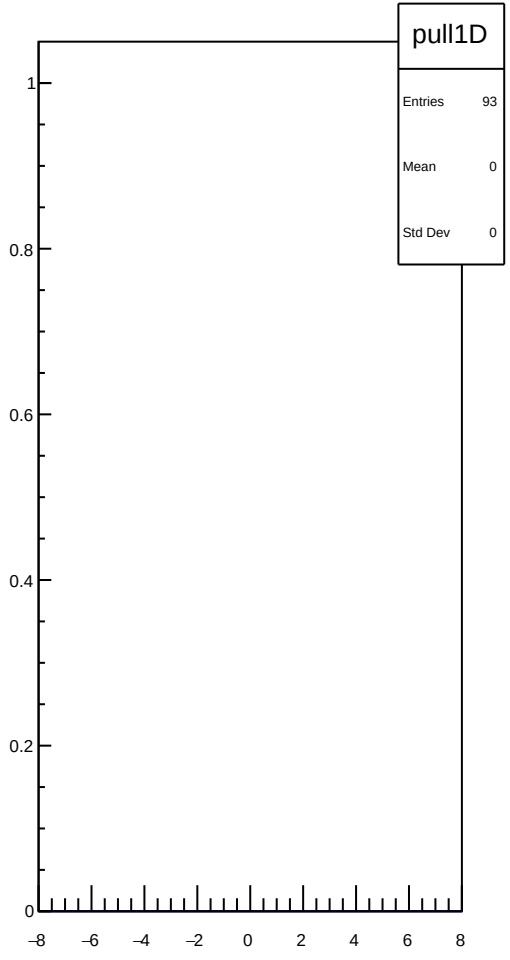

yield_bpm0i02aX_rms vs run
χ² / ndf 2.71e+04 / 92
p0 0.0108 ± 7.993e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01

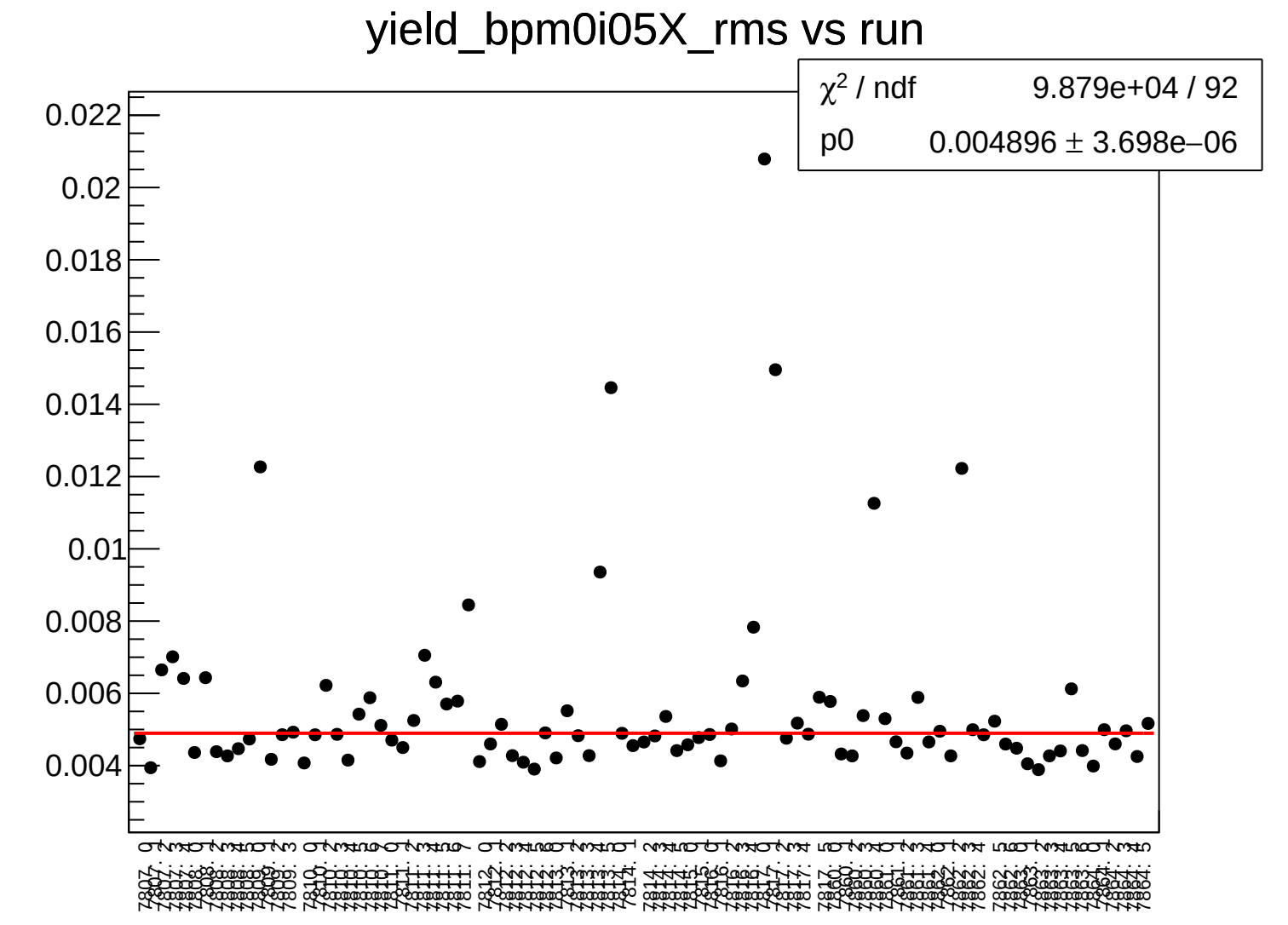

yield_bpm0i02aY_mean vs run
χ² / ndf 5.763e+08 / 92
p0 −0.4265 ± 1.219e−05
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
−0.8
−0.9
pull
Entries 93
Mean 768.2
Std Dev 0
2000
1000
0
−1000
−2000
−3000
−4000
−5000

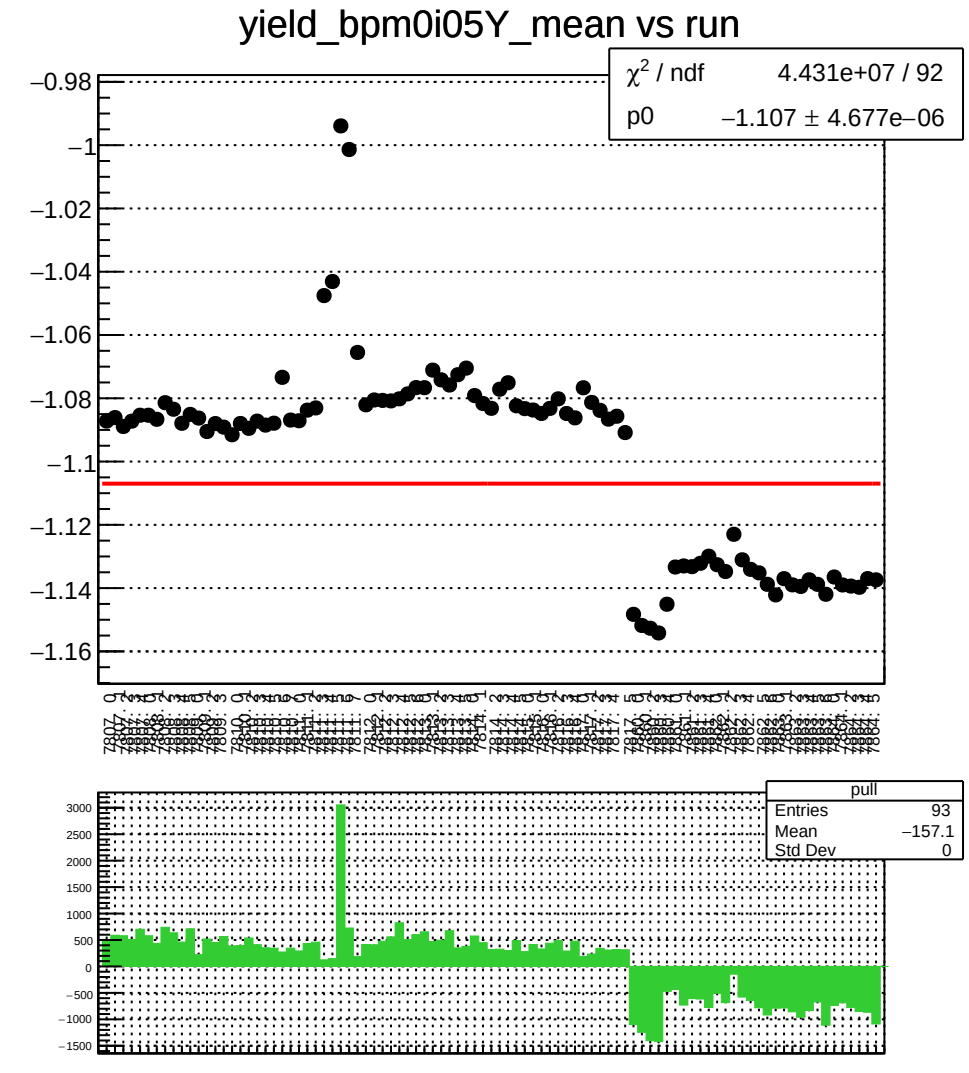

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

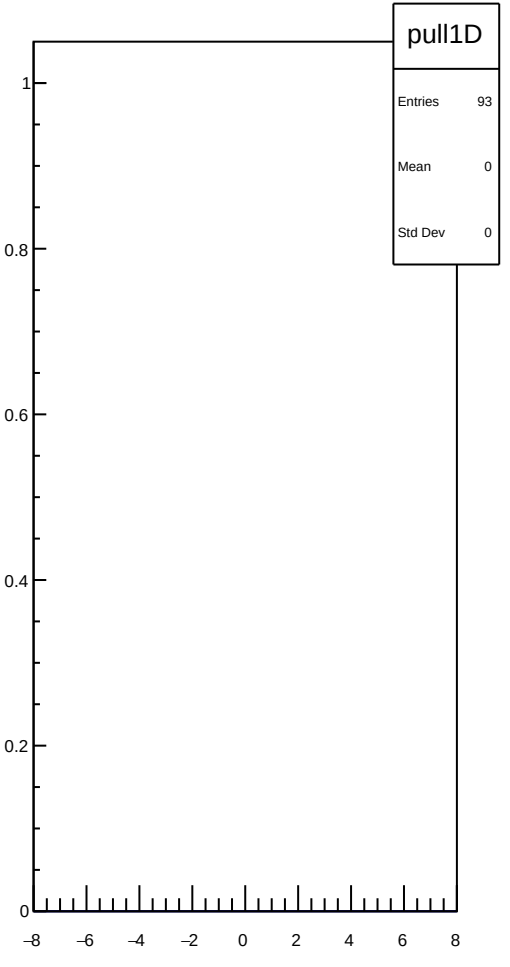

yield_bpm0i02aY_rms vs run
χ² / ndf 3.587e+04 / 92
p0 0.01161 ± 8.617e–06
0.035
0.03
0.025
0.02
0.015
0.01

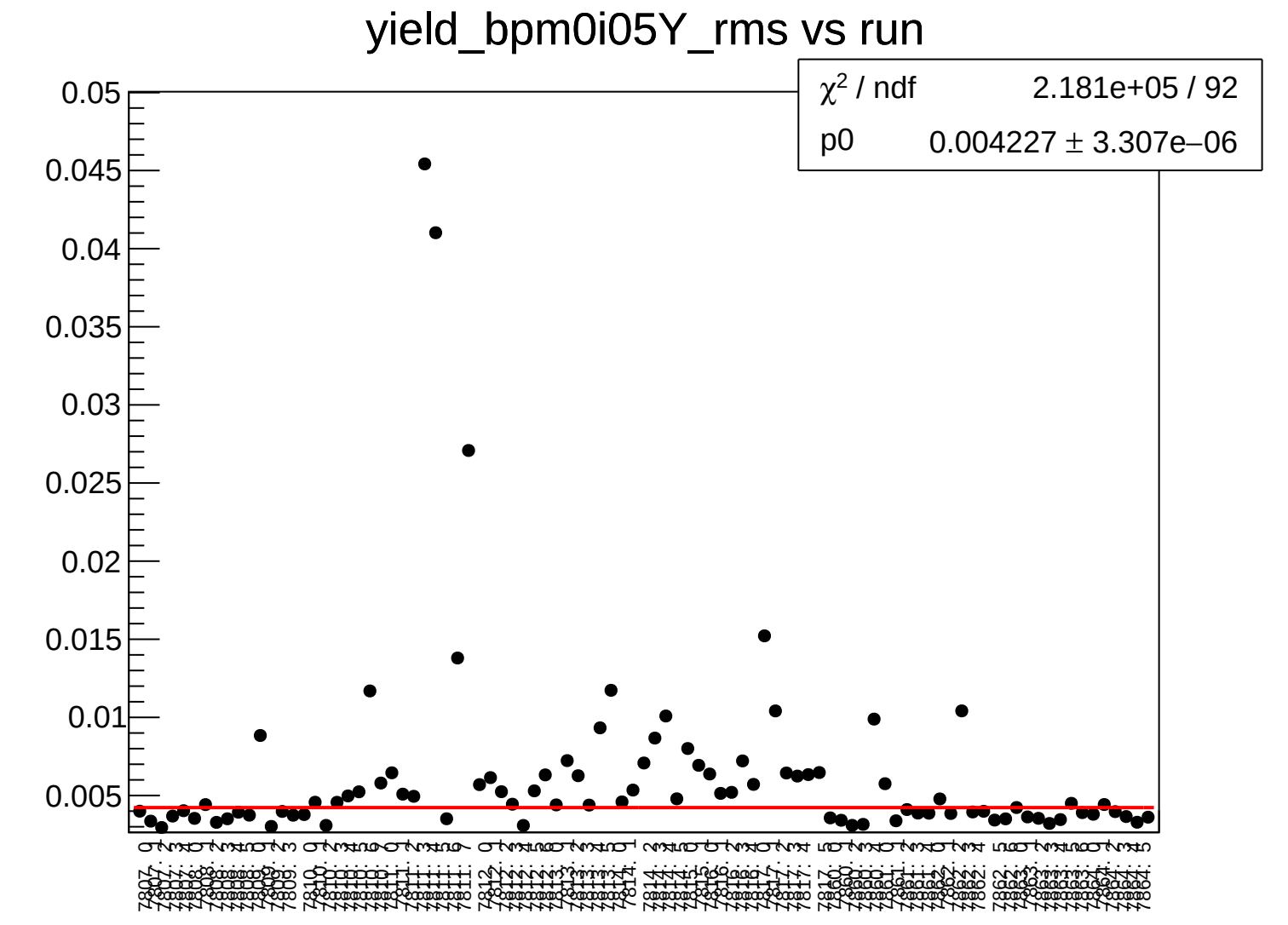

yield_bpm0i05X_mean vs run
χ² / ndf 1.641e+10 / 92
p0 −0.8623 ± 5.23e−06
pull
Entries 93
Mean −802.2
Std Dev 0

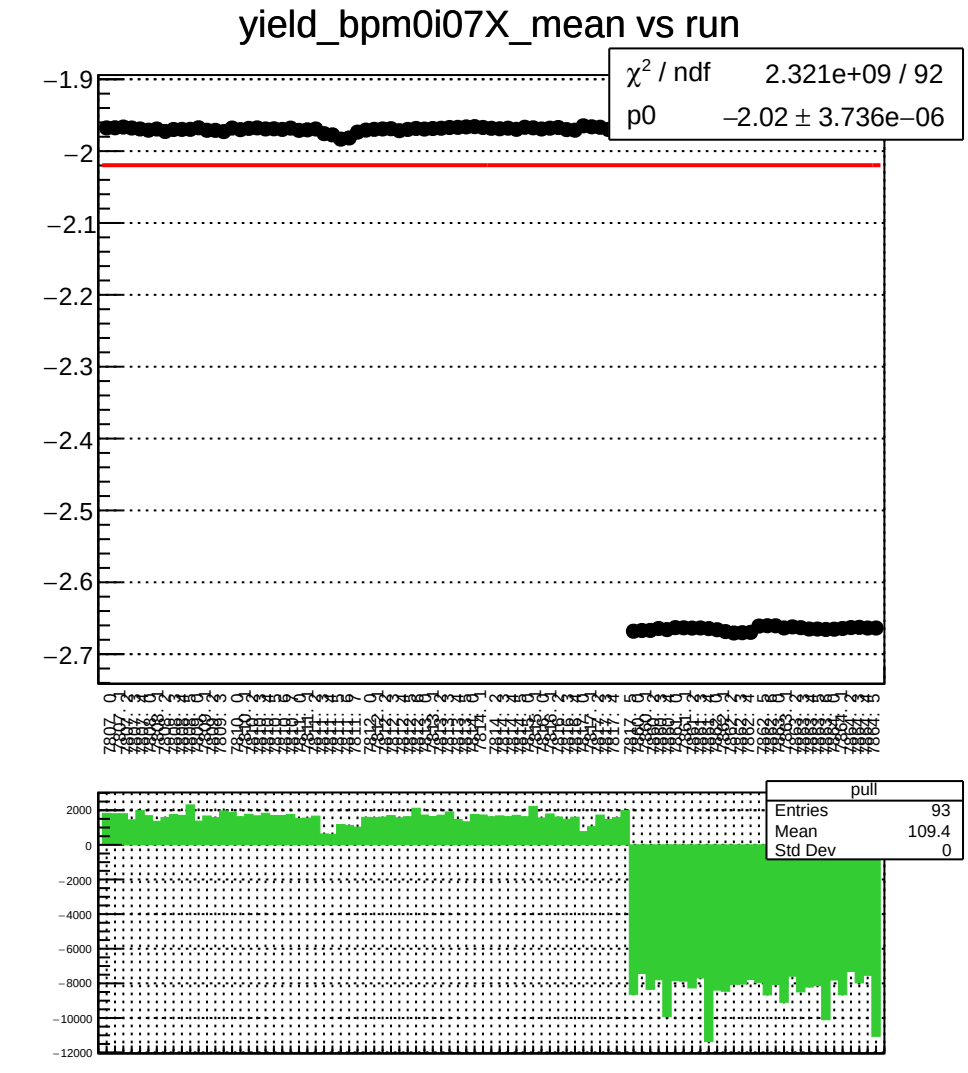

pull1D
Entries 93
Mean 0
Std Dev 0

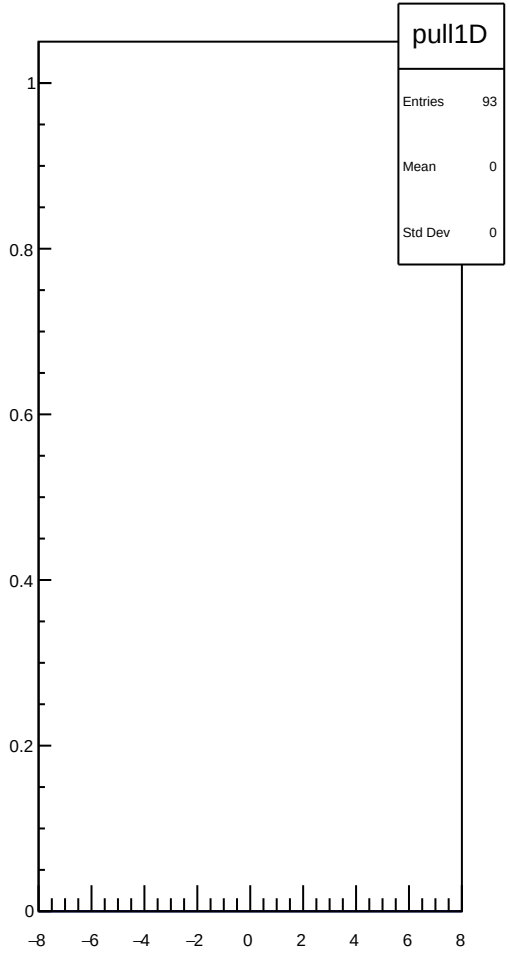

yield_bpm0i05X_rms vs run
χ^2 / ndf 9.879e+04 / 92
p0 0.004896 ± 3.698e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

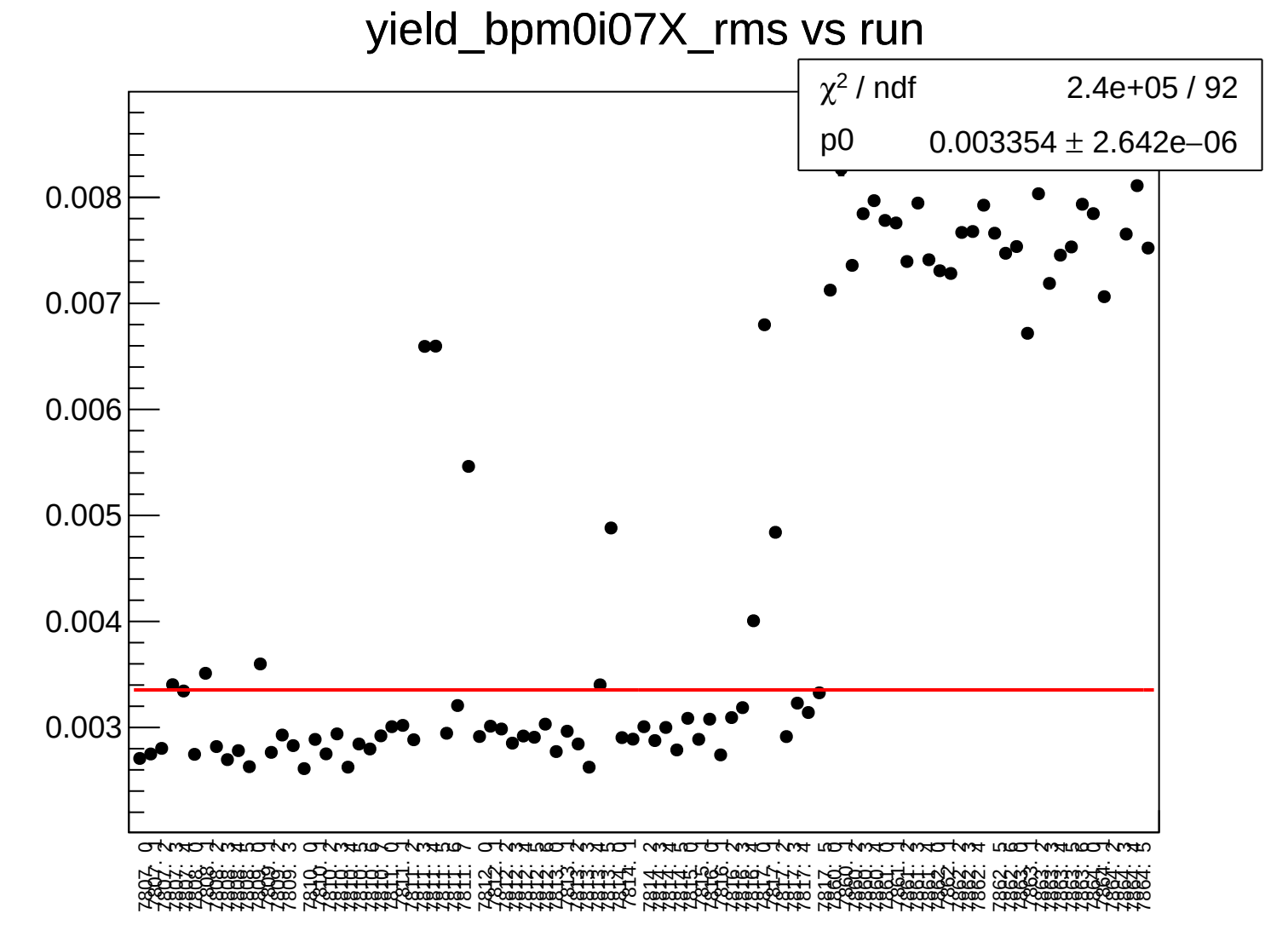

yield_bpm0i05Y_mean vs run
χ² / ndf 4.431e+07 / 92
p0 −1.107 ± 4.677e−06
−0.98
−1
−1.02
−1.04
−1.06
−1.08
−1.1
−1.12
−1.14
−1.16
pull
Entries 93
Mean −157.1
Std Dev 0
3000
2500
2000
1500
1000
500
0
−500
−1000
−1500

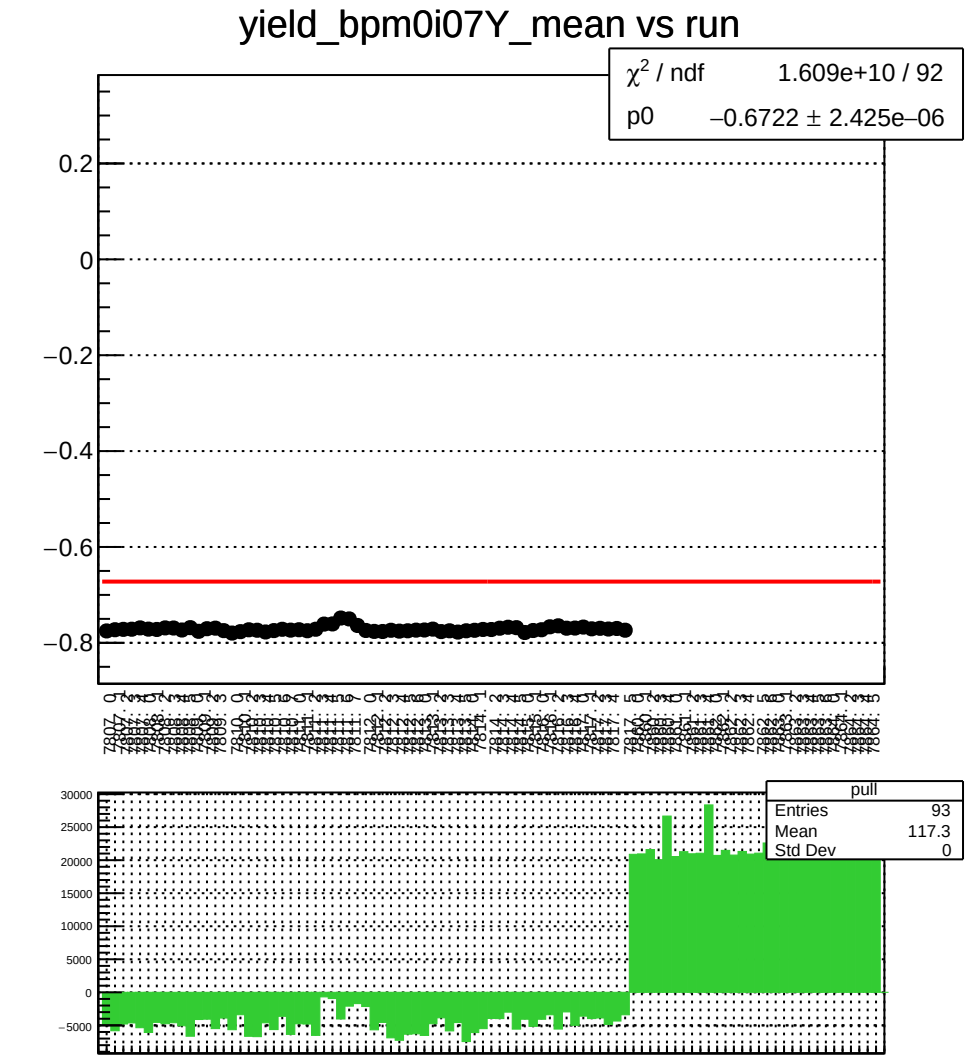

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

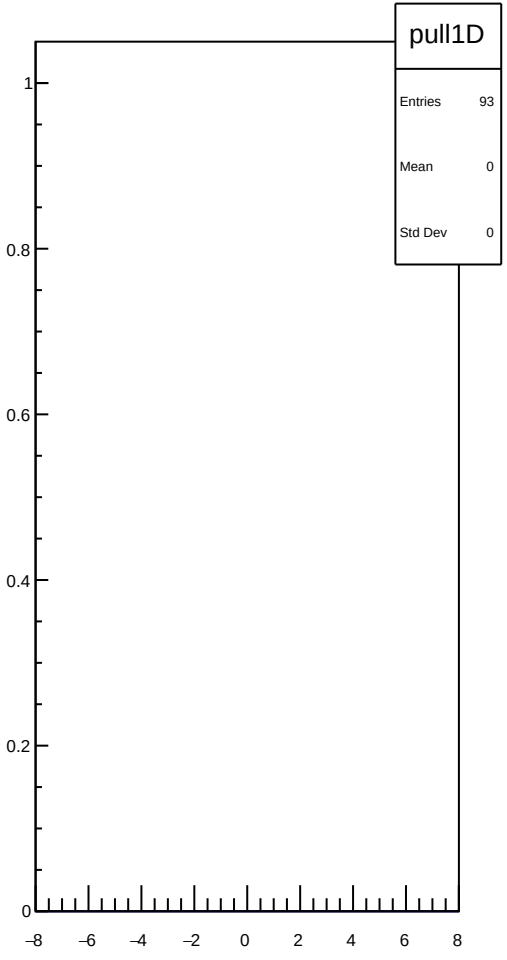

yield_bpm0i05Y_rms vs run
χ^2 / ndf 2.181e+05 / 92
p0 0.004227 ± 3.307e−06
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

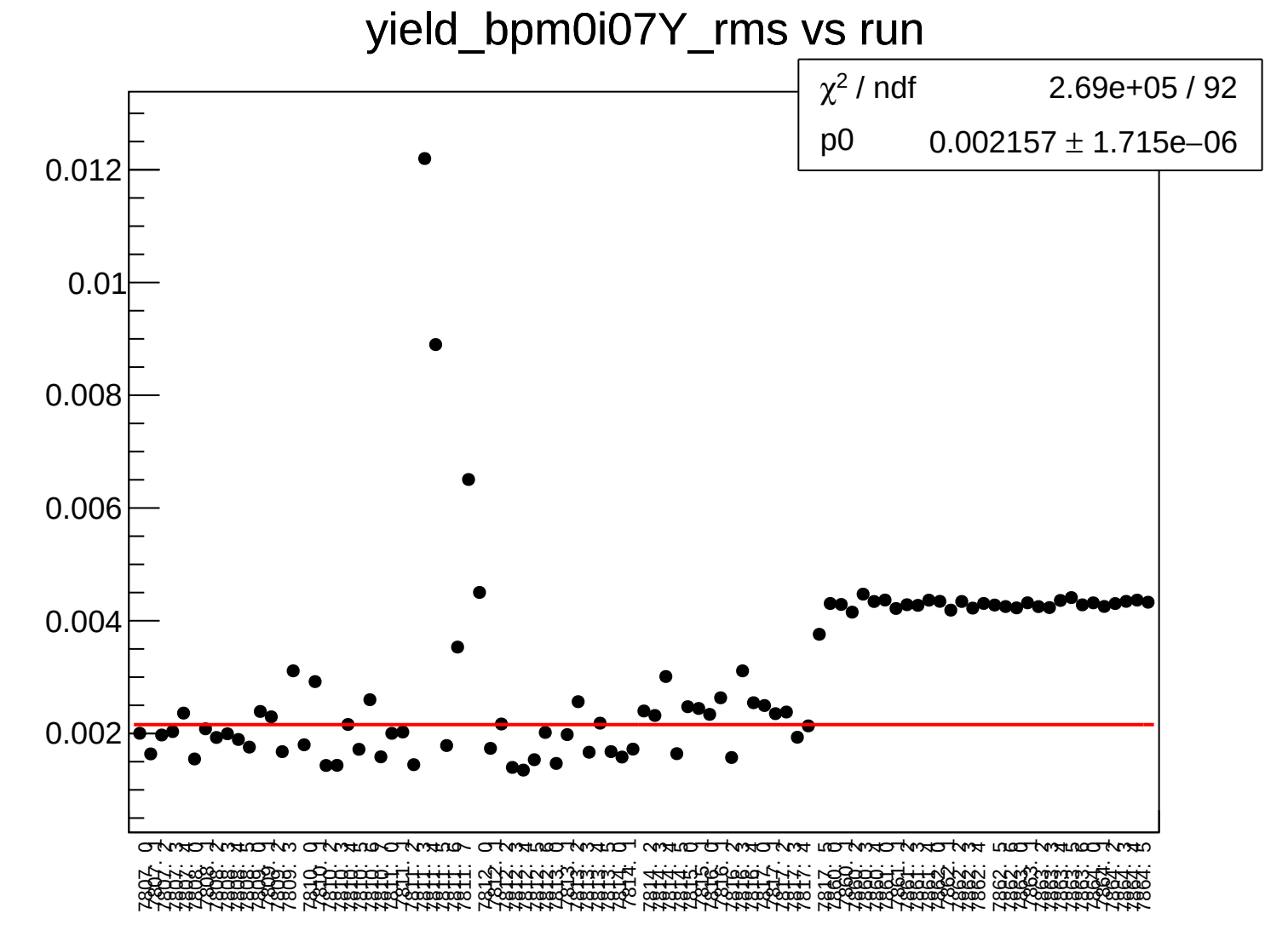

yield_bpm0i07X_mean vs run
χ² / ndf 2.321e+09 / 92
p0 −2.02 ± 3.736e−06
−1.9
−2
−2.1
−2.2
−2.3
−2.4
−2.5
−2.6
−2.7
pull
Entries 93
Mean 109.4
Std Dev 0
2000
0
−2000
−4000
−6000
−8000
−10000
−12000

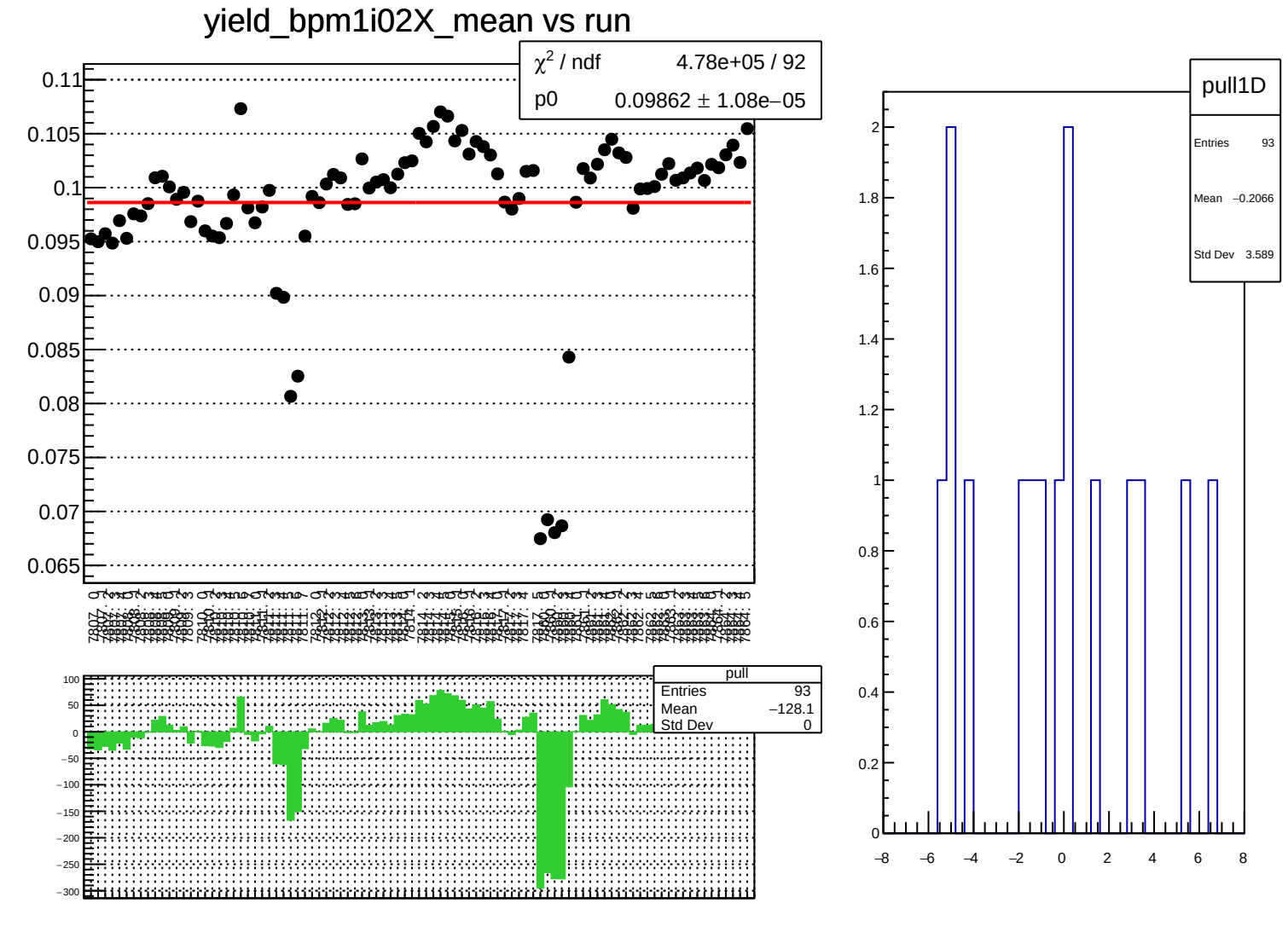

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

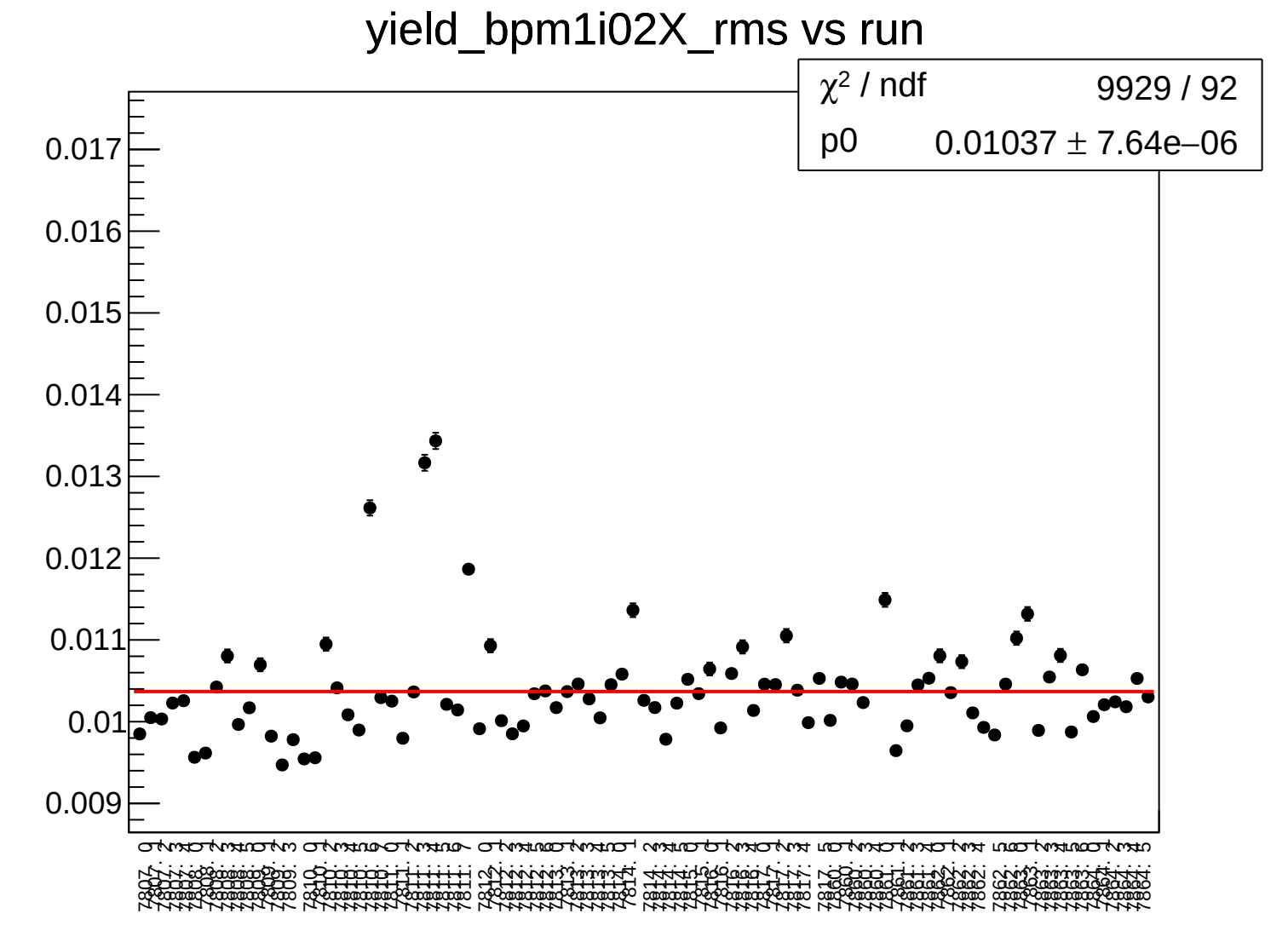

yield_bpm0i07X_rms vs run
χ^2 / ndf 2.4e+05 / 92
p0 0.003354 ± 2.642e−06
0.008
0.007
0.006
0.005
0.004
0.003

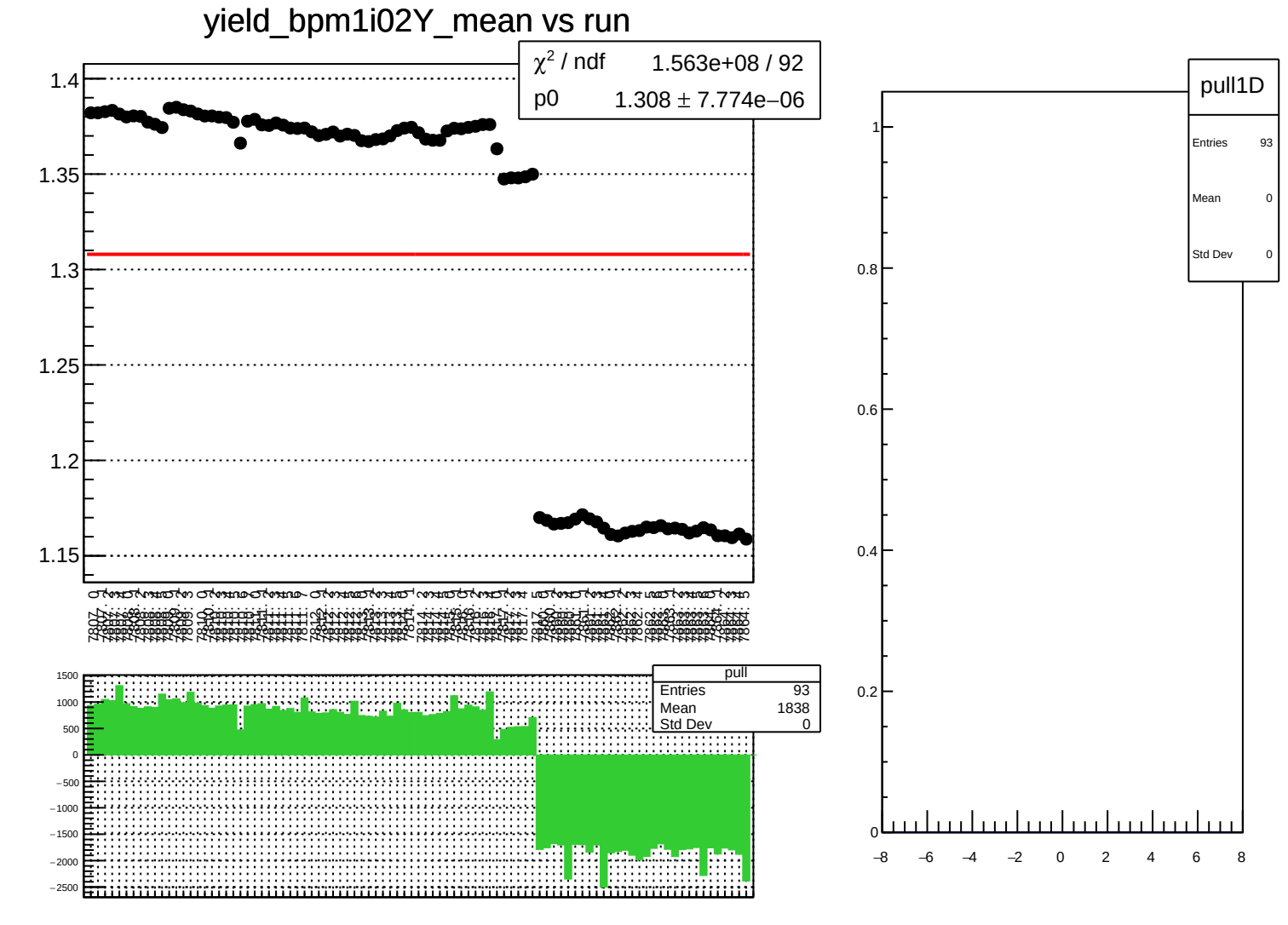

yield_bpm0i07Y_mean vs run
χ² / ndf 1.609e+10 / 92
p0 −0.6722 ± 2.425e−06
0.2
0
−0.2
−0.4
−0.6
−0.8
pull
Entries 93
Mean 117.3
Std Dev 0
30000
25000
20000
15000
10000
5000
0
−5000


pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

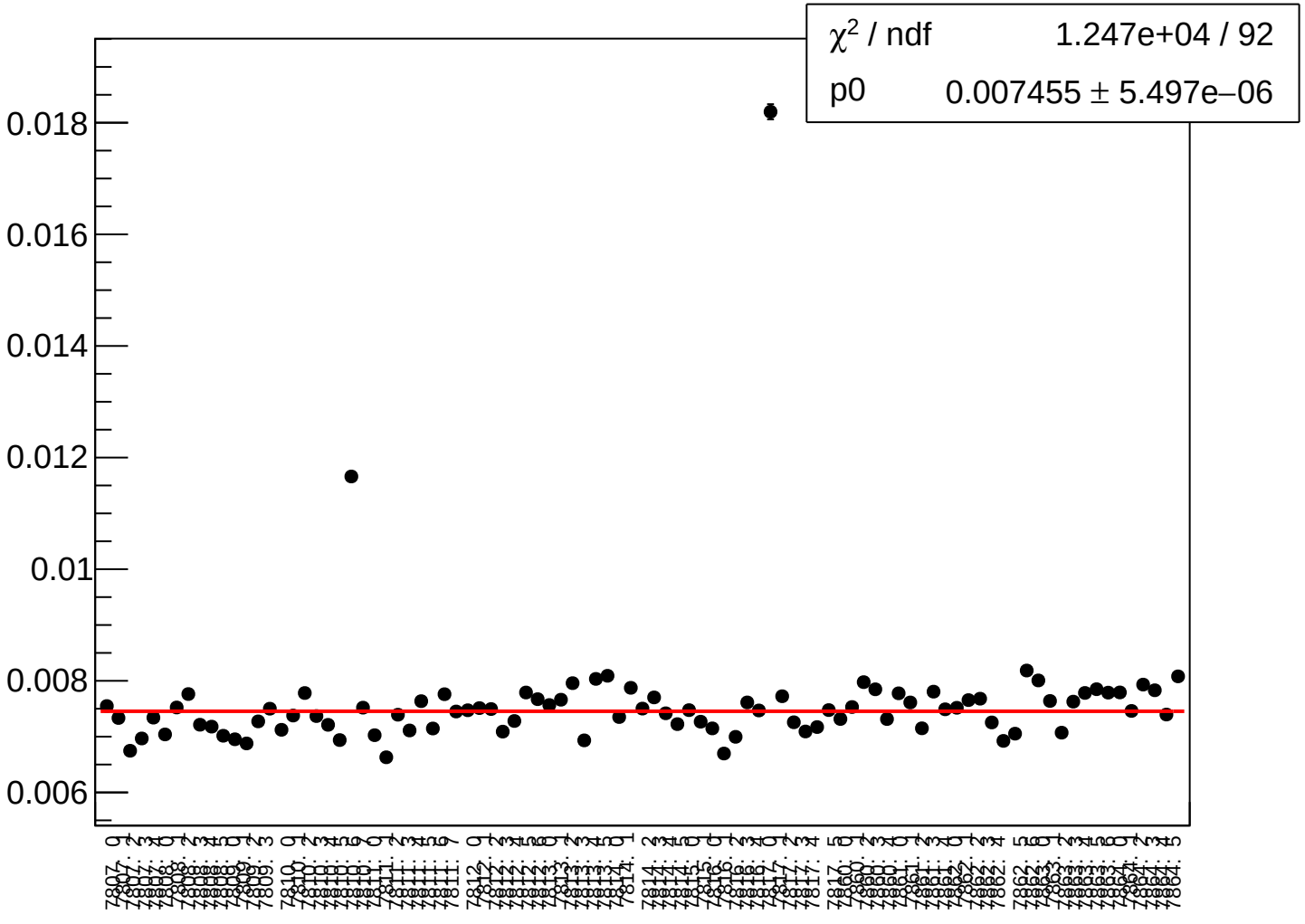

yield_bpm0i07Y_rms vs run
χ² / ndf 2.69e+05 / 92
p0 0.002157 ± 1.715e−06
0.012
0.01
0.008
0.006
0.004
0.002

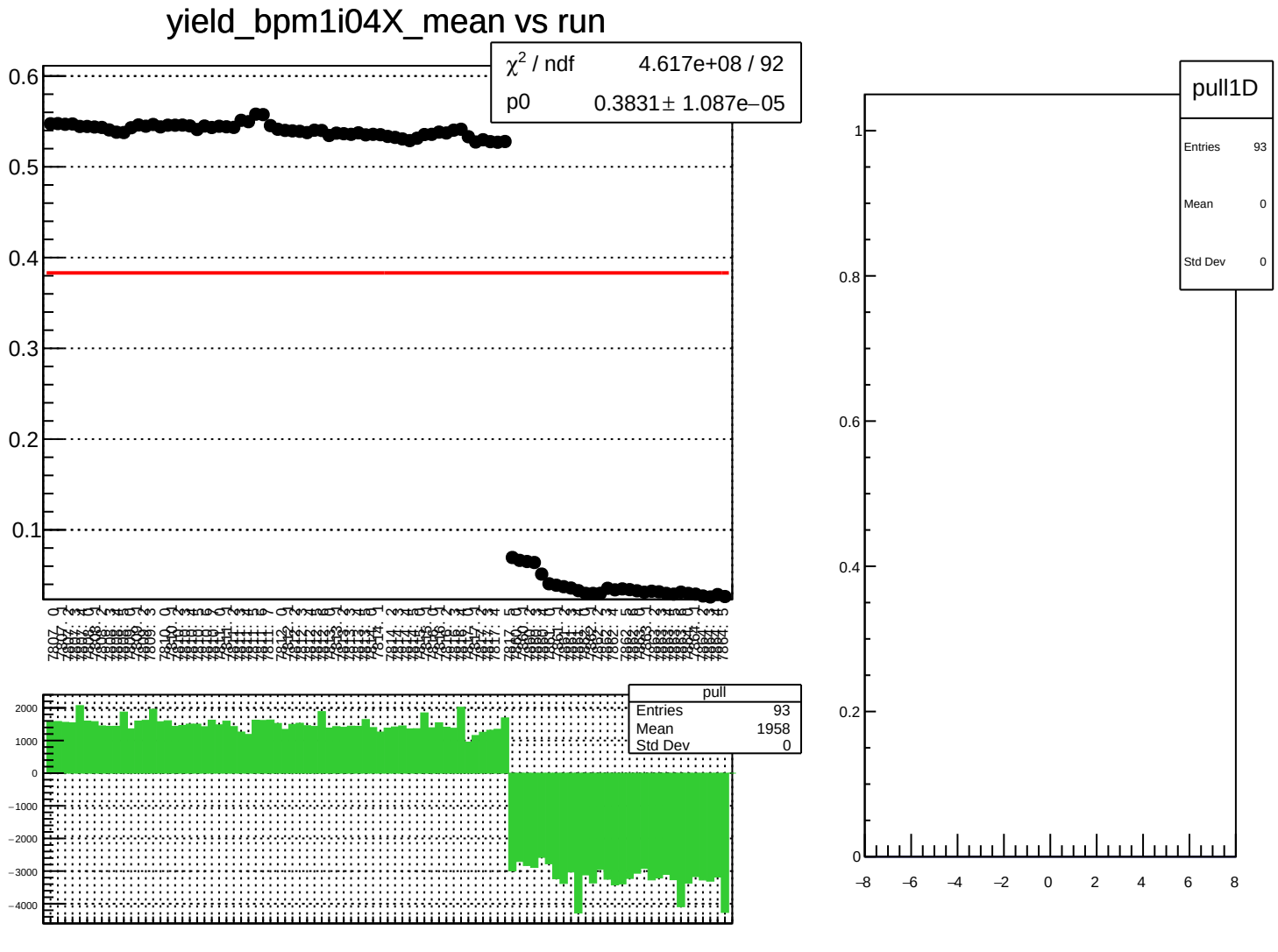

yield_bpm1i02X_mean vs run
χ² / ndf 4.78e+05 / 92
p0 0.09862 ± 1.08e−05
pull
Entries 93
Mean −128.1
Std Dev 0
pull1D
Entries 93
Mean −0.2066
Std Dev 3.589


yield_bpm1i02X_rms vs run
χ² / ndf 9929 / 92
p0 0.01037 ± 7.64e–06
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009

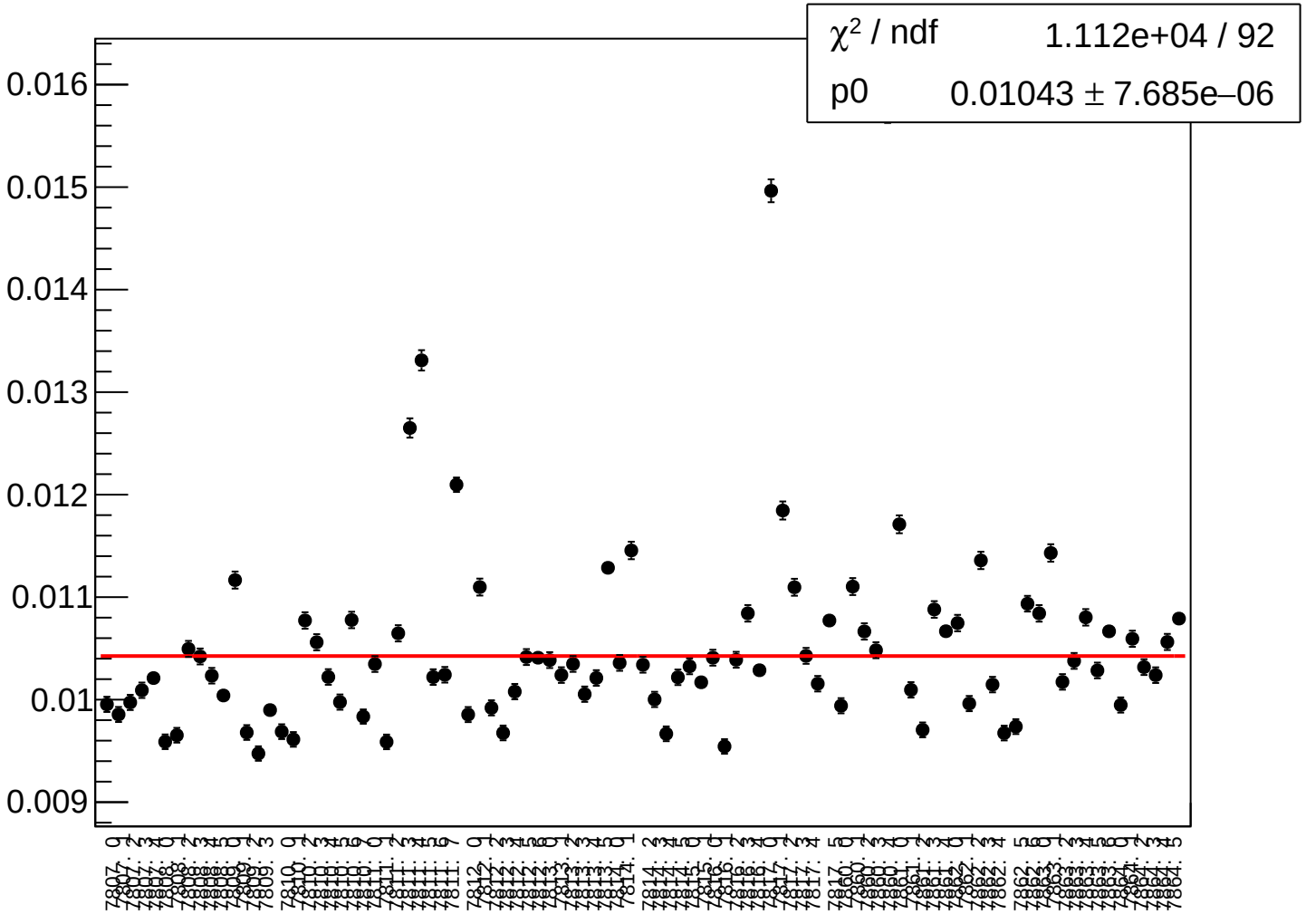

yield_bpm1i02Y_mean vs run
χ² / ndf 1.563e+08 / 92
p0 1.308 ± 7.774e−06
1.4
1.35
1.3
1.25
1.2
1.15
pull
Entries 93
Mean 1838
Std Dev 0
1500
1000
500
0
−500
−1000
−1500
−2000
−2500
pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

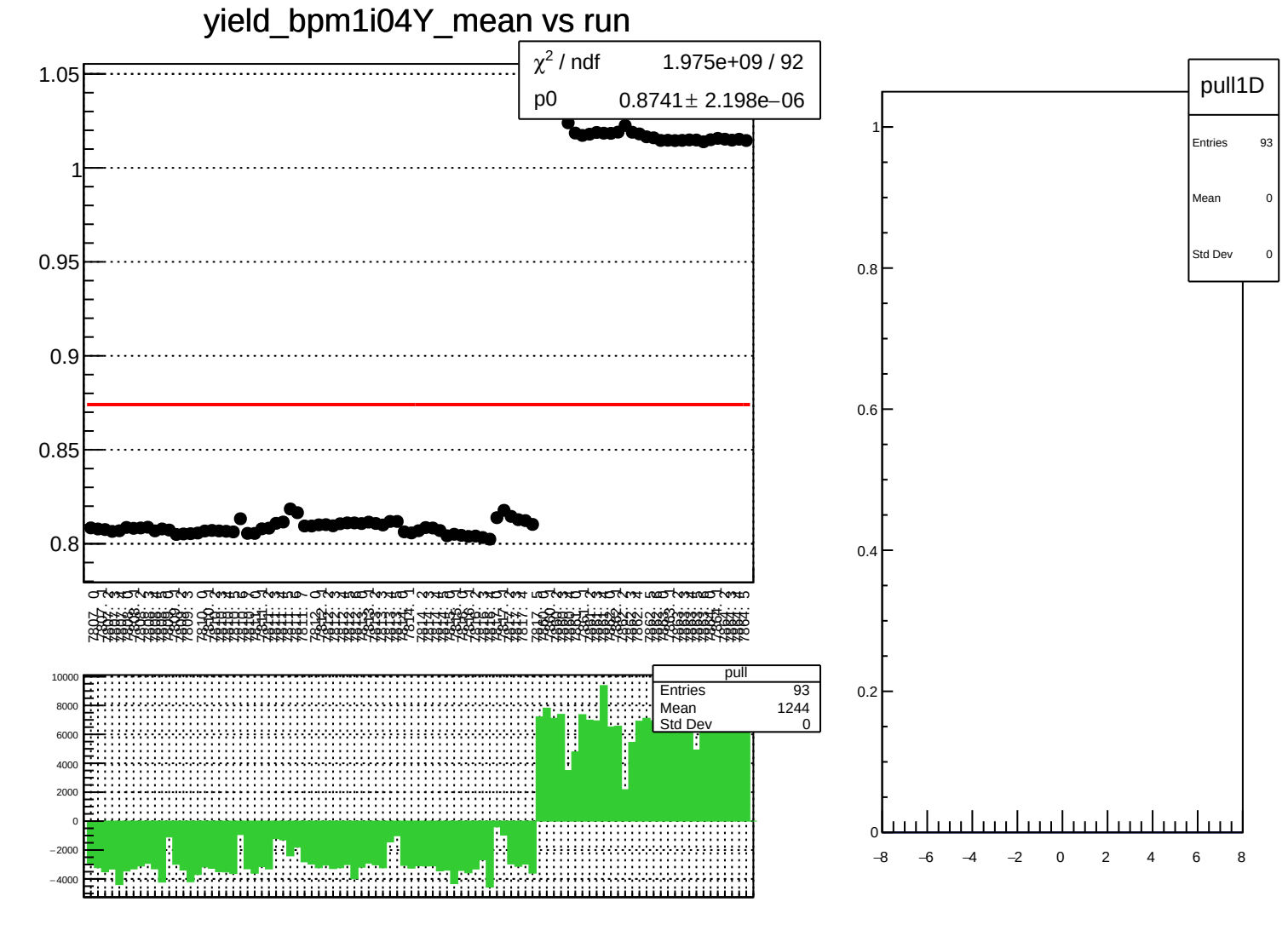
yield_bpm1i02Y_rms vs run

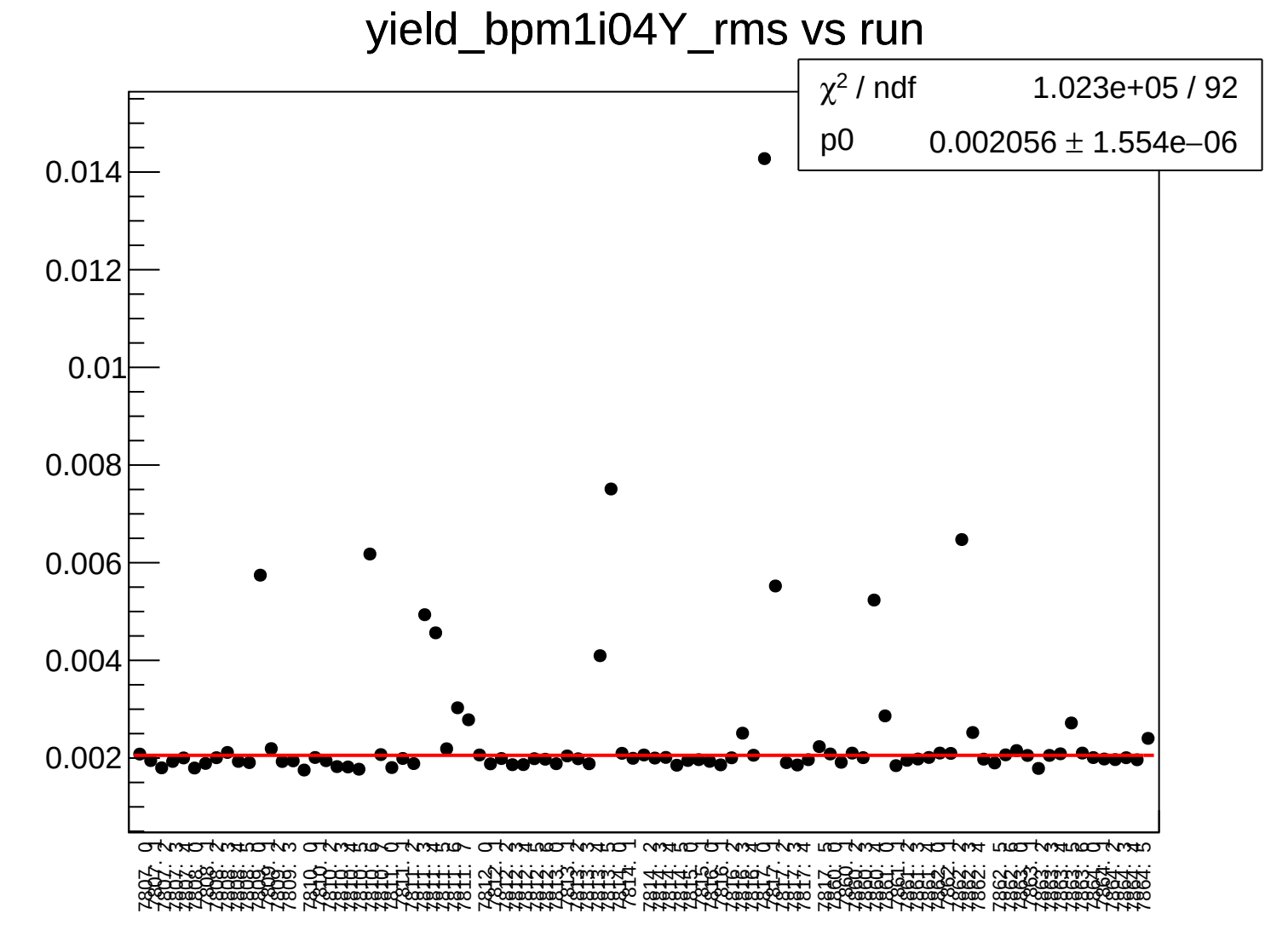


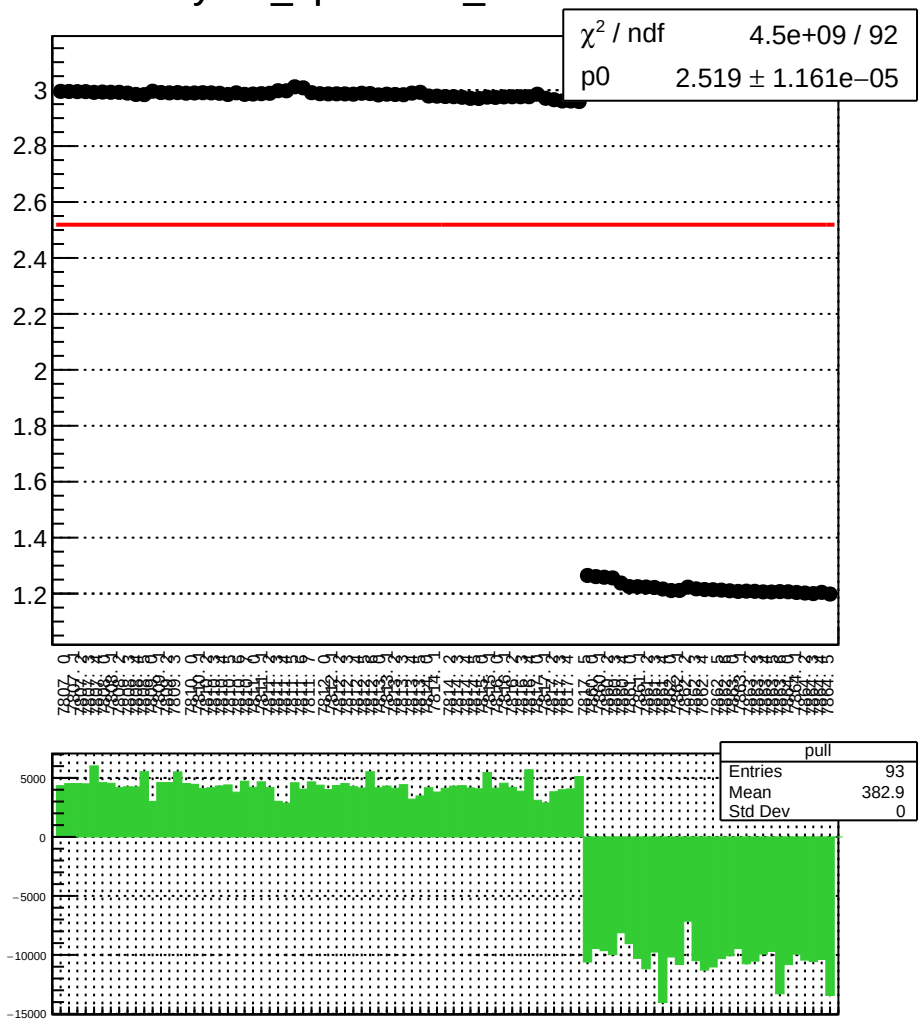

yield_bpm1i04X_mean vs run
χ² / ndf 4.617e+08 / 92
p0 0.3831 ± 1.087e−05
pull
Entries 93
Mean 1958
Std Dev 0
pull1D
Entries 93
Mean 0
Std Dev 0

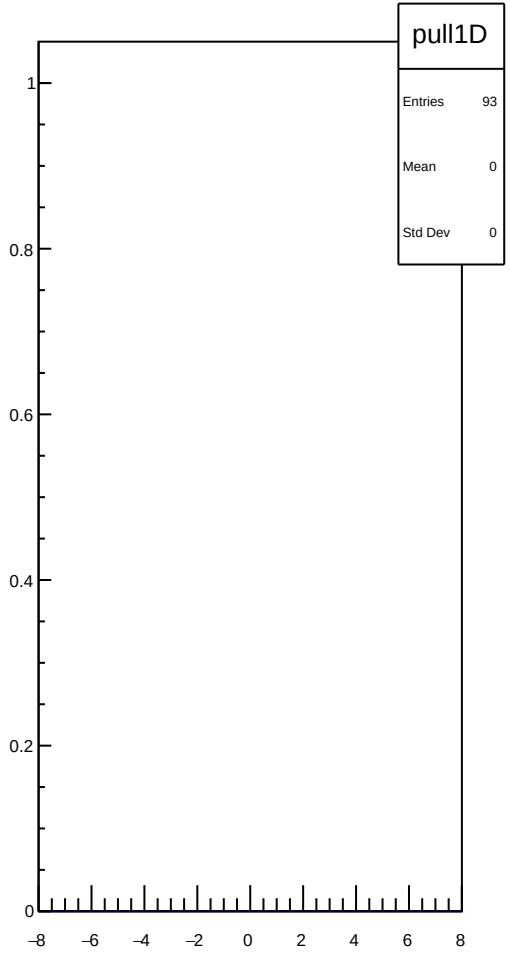
yield_bpm1i04X_rms vs run

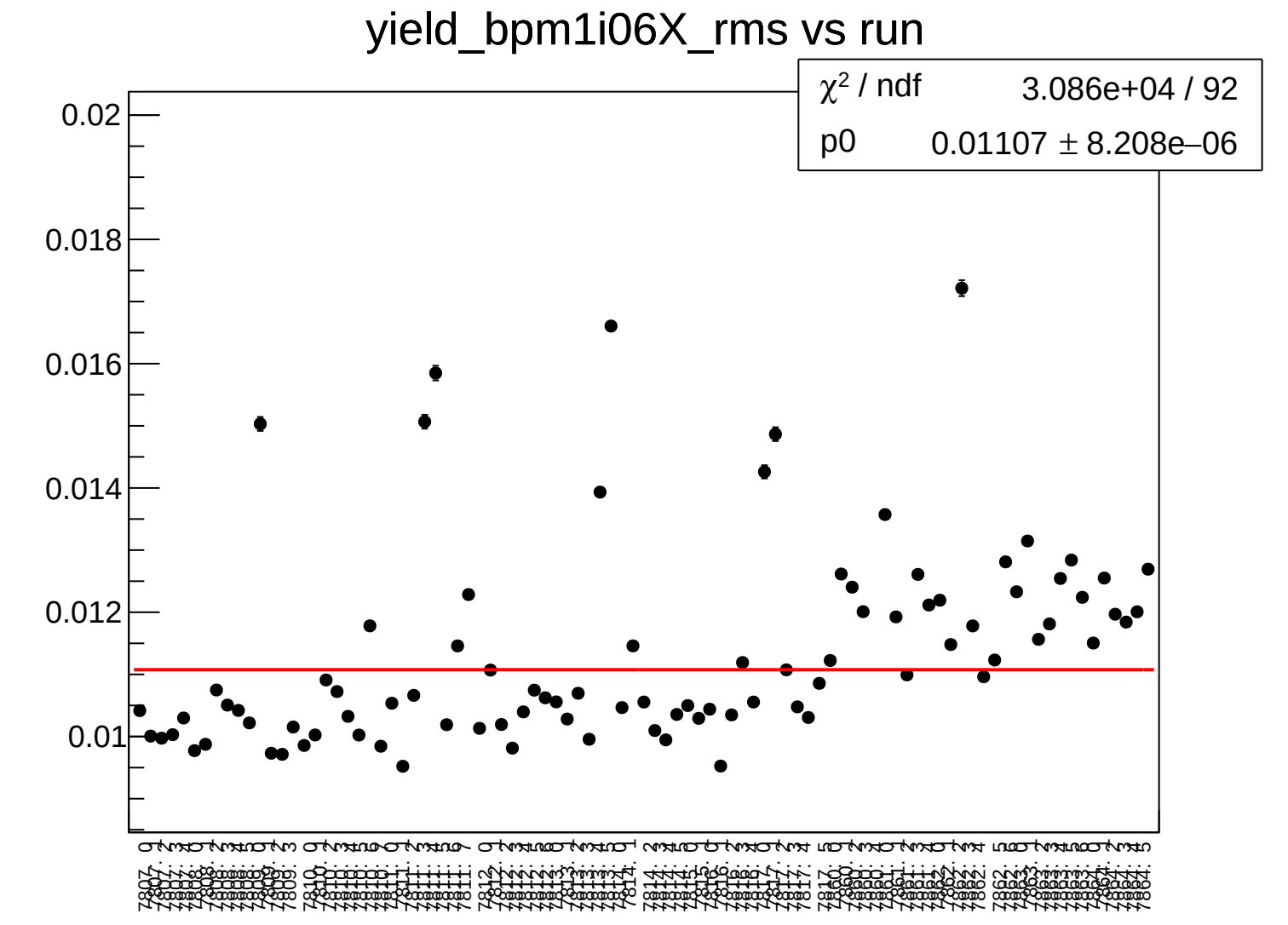


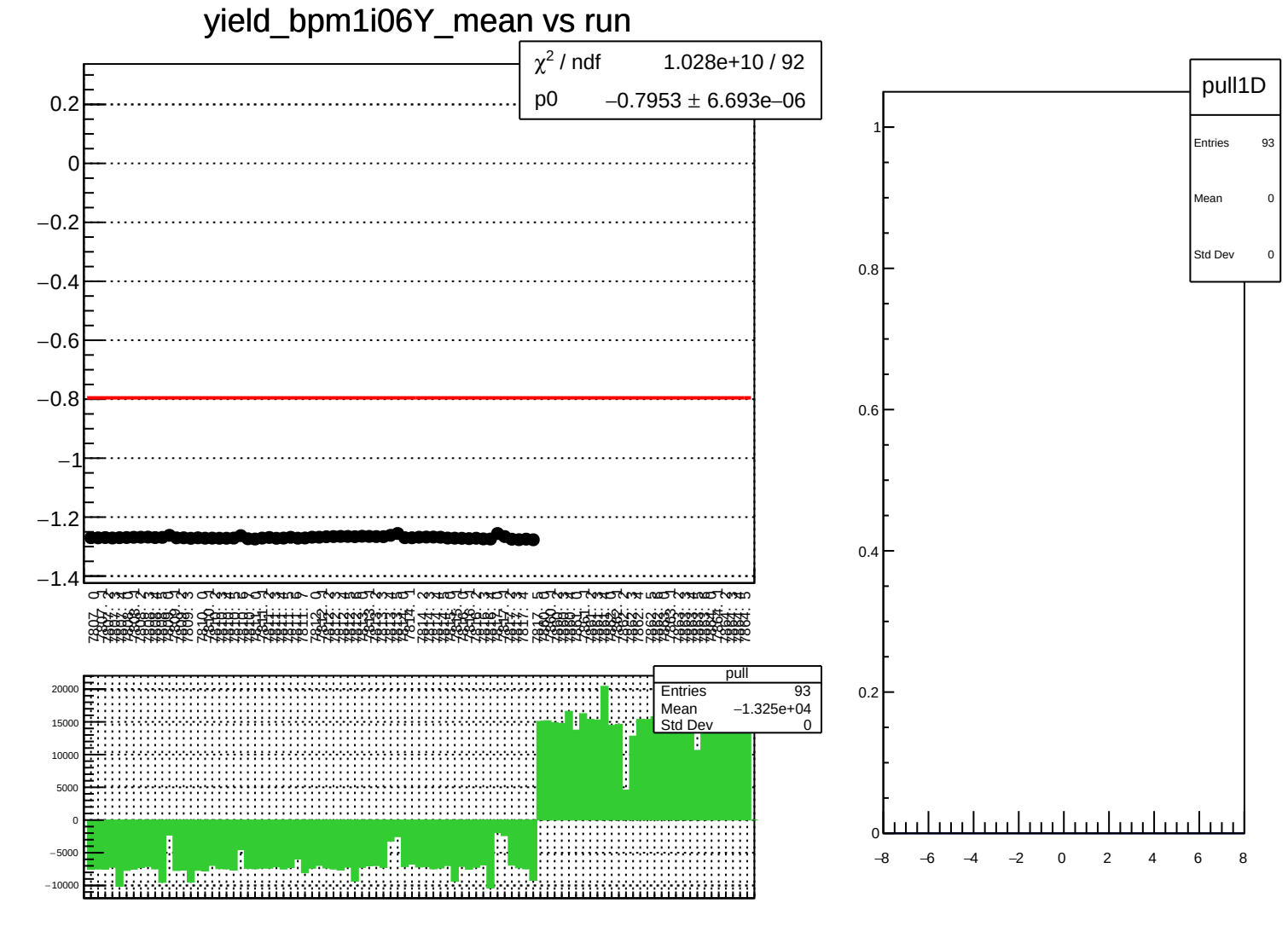

yield_bpm1i04Y_mean vs run
χ² / ndf 1.975e+09 / 92
p0 0.8741 ± 2.198e−06
pull
Entries 93
Mean 1244
Std Dev 0
pull1D
Entries 93
Mean 0
Std Dev 0

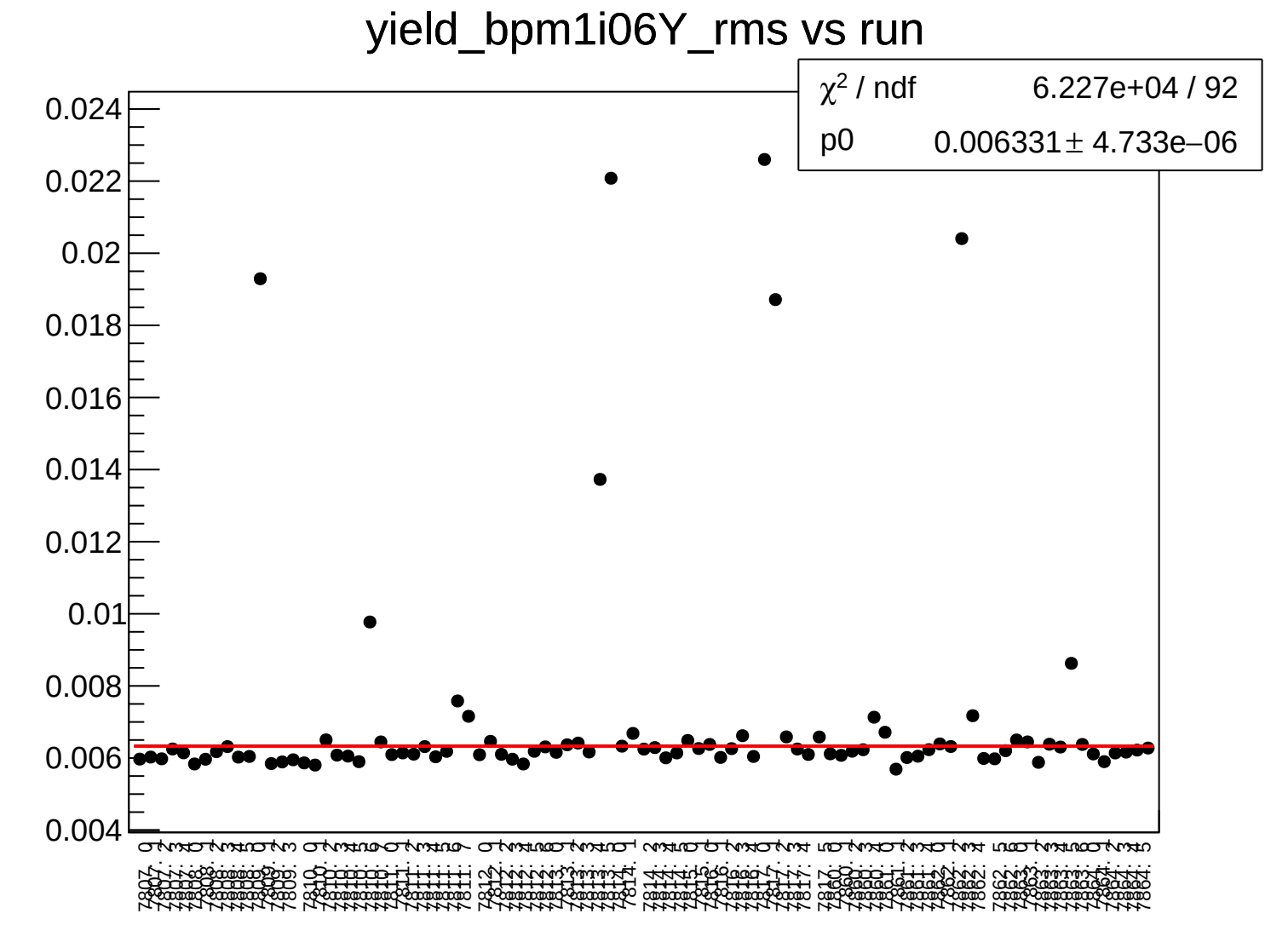

yield_bpm1i04Y_rms vs run
χ² / ndf 1.023e+05 / 92
p0 0.002056 ± 1.554e−06
0.014
0.012
0.01
0.008
0.006
0.004
0.002

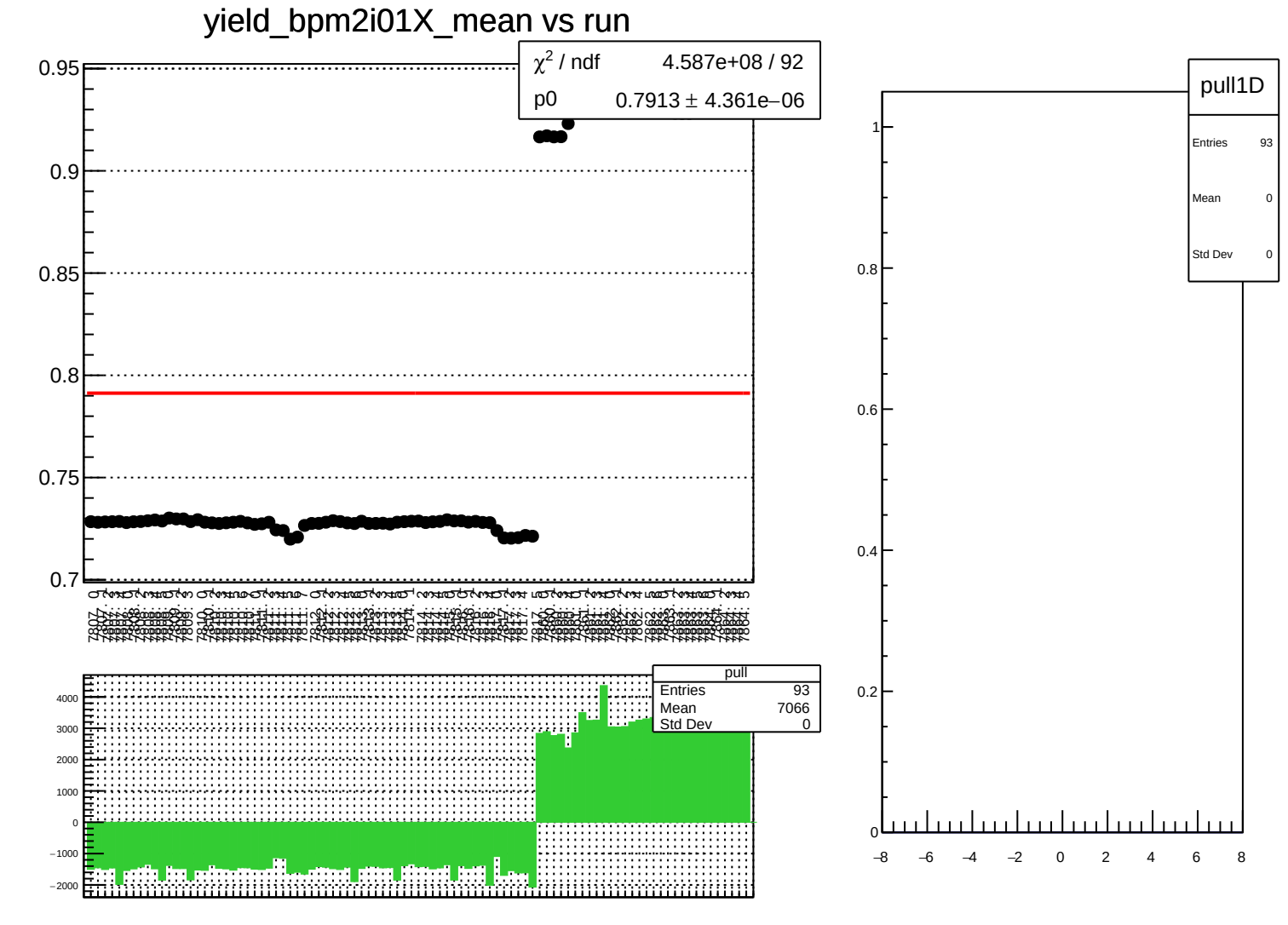

yield_bpm1i06X_mean vs run
χ² / ndf 4.5e+09 / 92
p0 2.519 ± 1.161e−05
pull
Entries 93
Mean 382.9
Std Dev 0

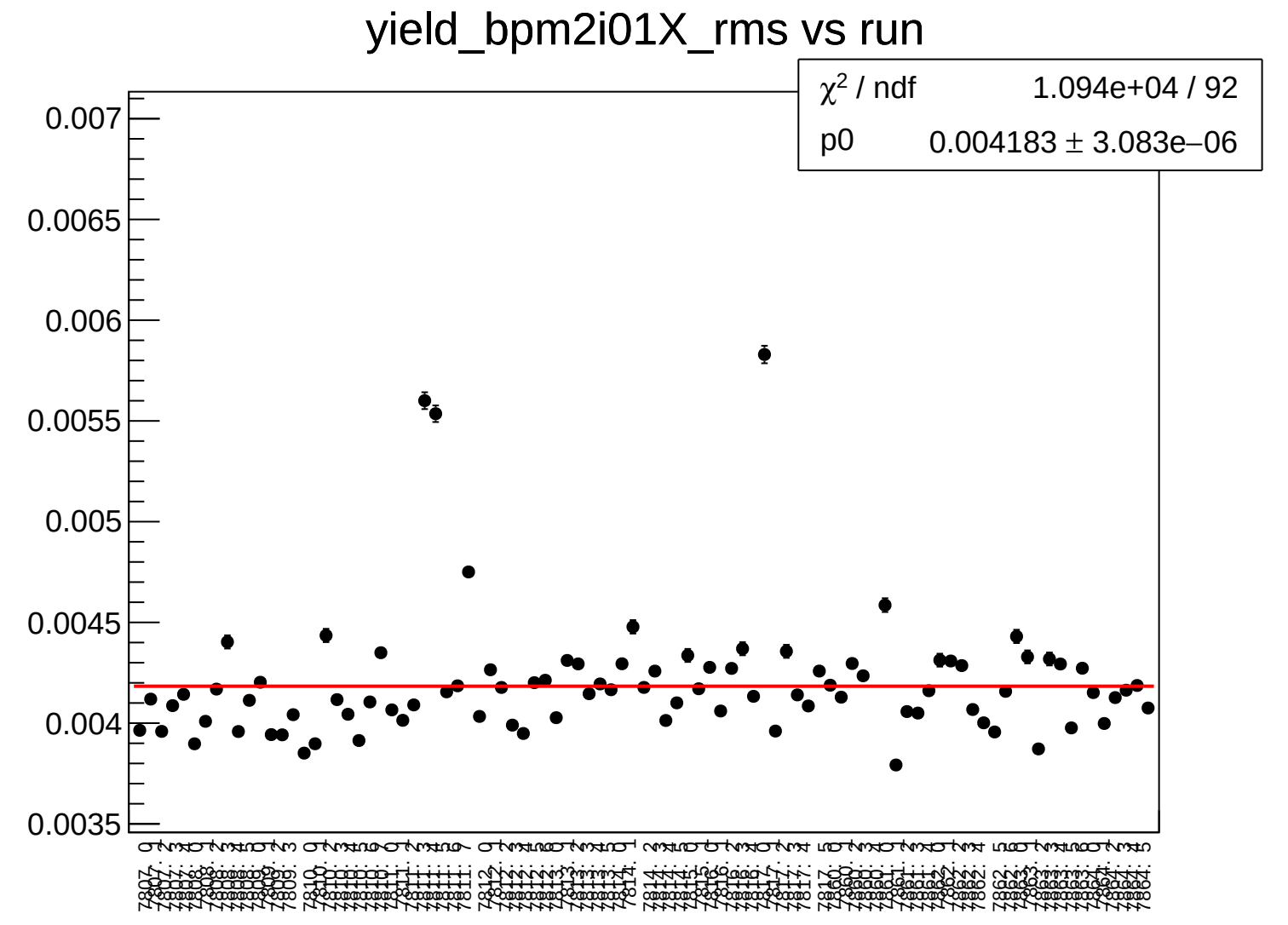

pull1D
Entries 93
Mean 0
Std Dev 0

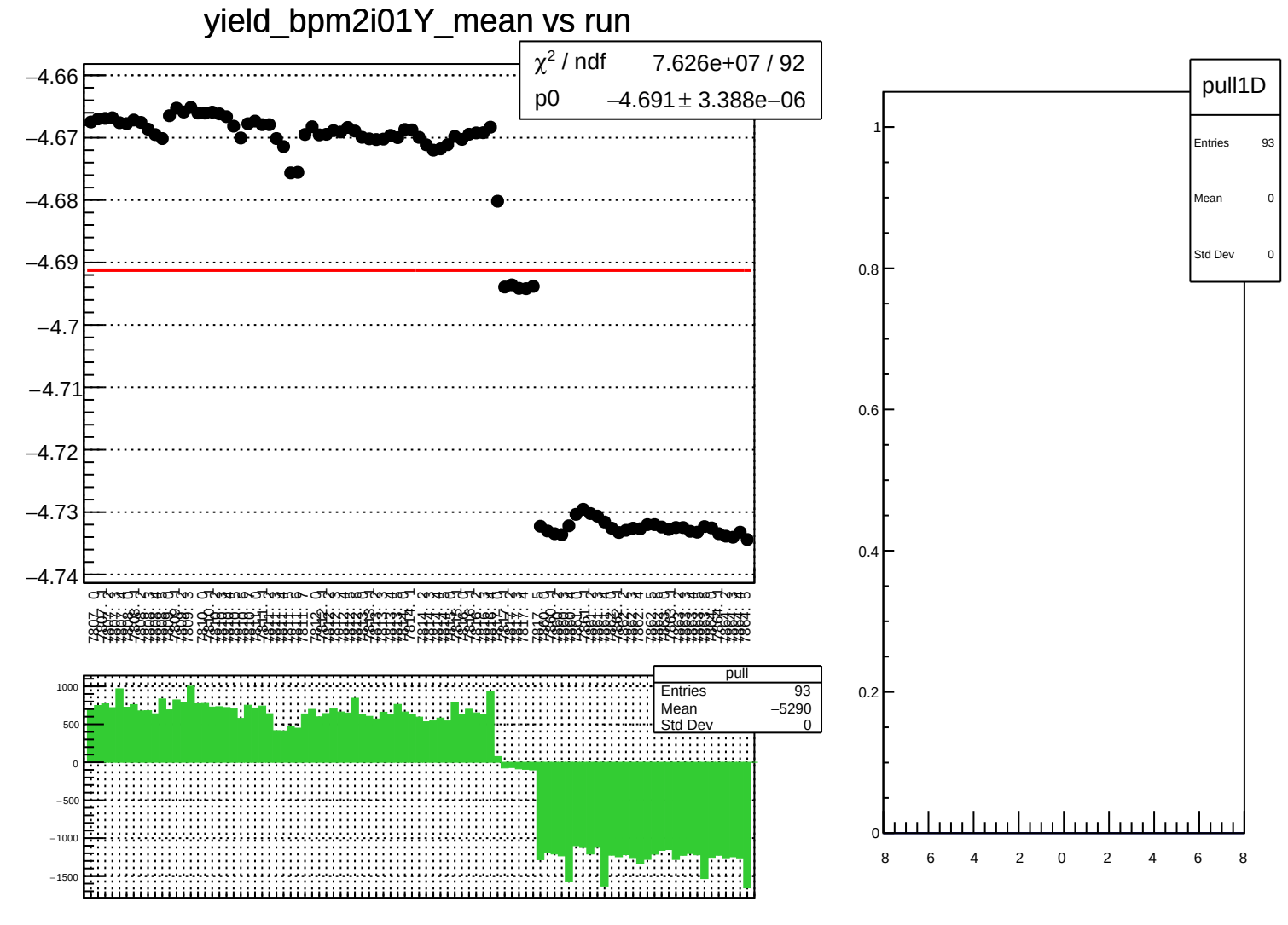

yield_bpm1i06X_rms vs run
χ² / ndf 3.086e+04 / 92
p0 0.01107 ± 8.208e–06
0.02
0.018
0.016
0.014
0.012
0.01

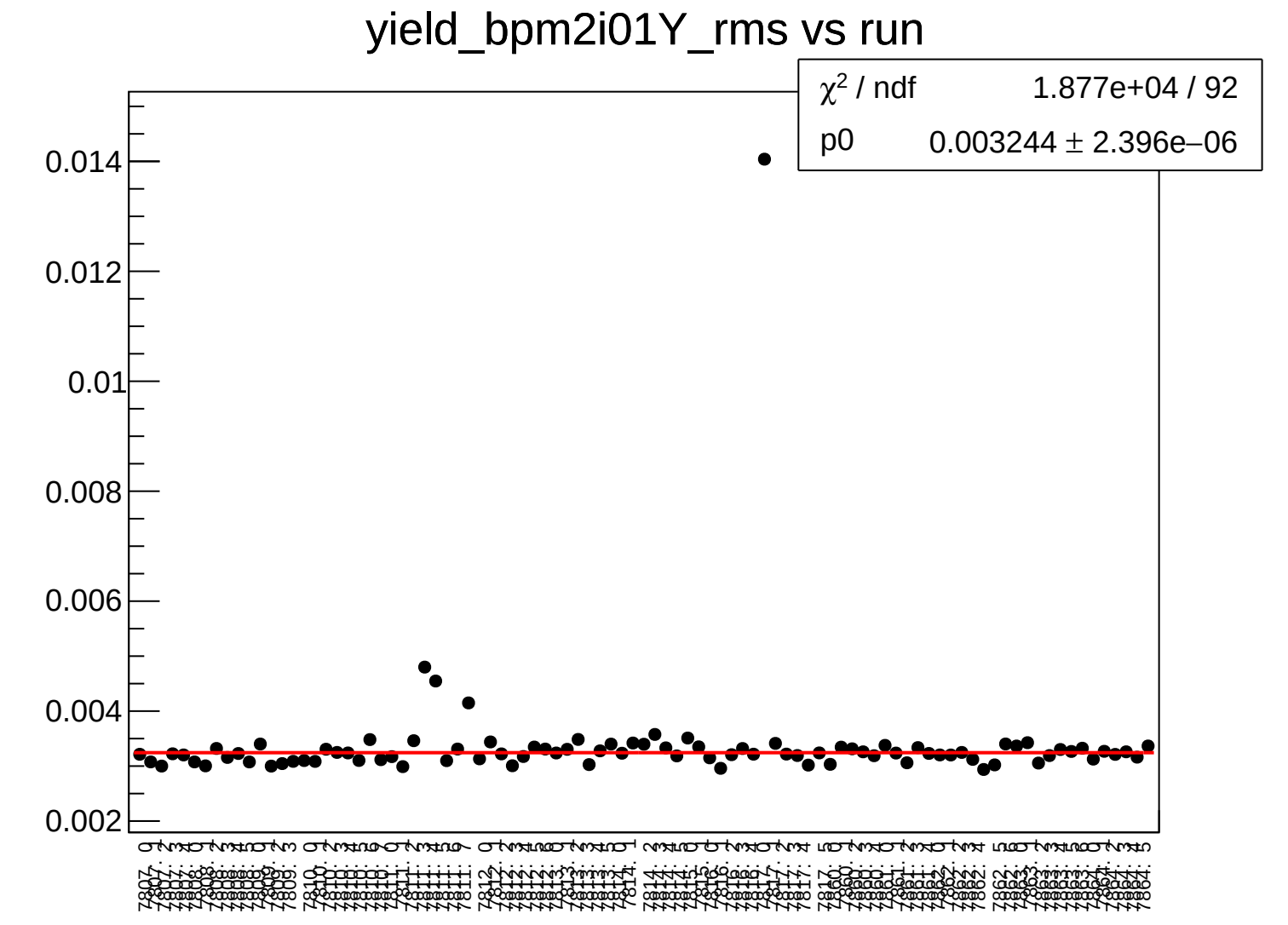

yield_bpm1i06Y_mean vs run
χ² / ndf 1.028e+10 / 92
p0 −0.7953 ± 6.693e−06
pull
Entries 93
Mean −1.325e+04
Std Dev 0
pull1D
Entries 93
Mean 0
Std Dev 0

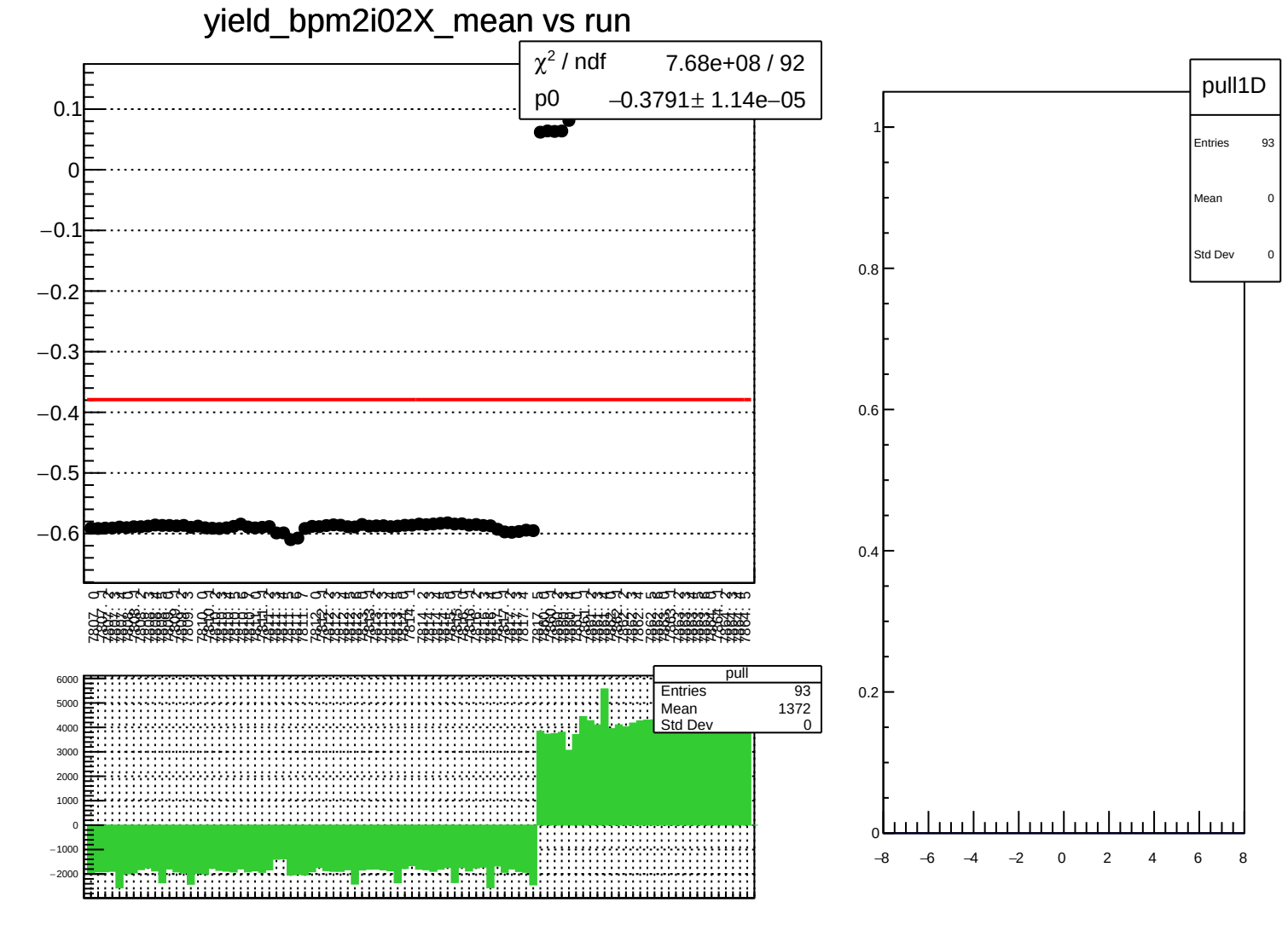

yield_bpm1i06Y_rms vs run
χ² / ndf 6.227e+04 / 92
p0 0.006331 ± 4.733e−06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

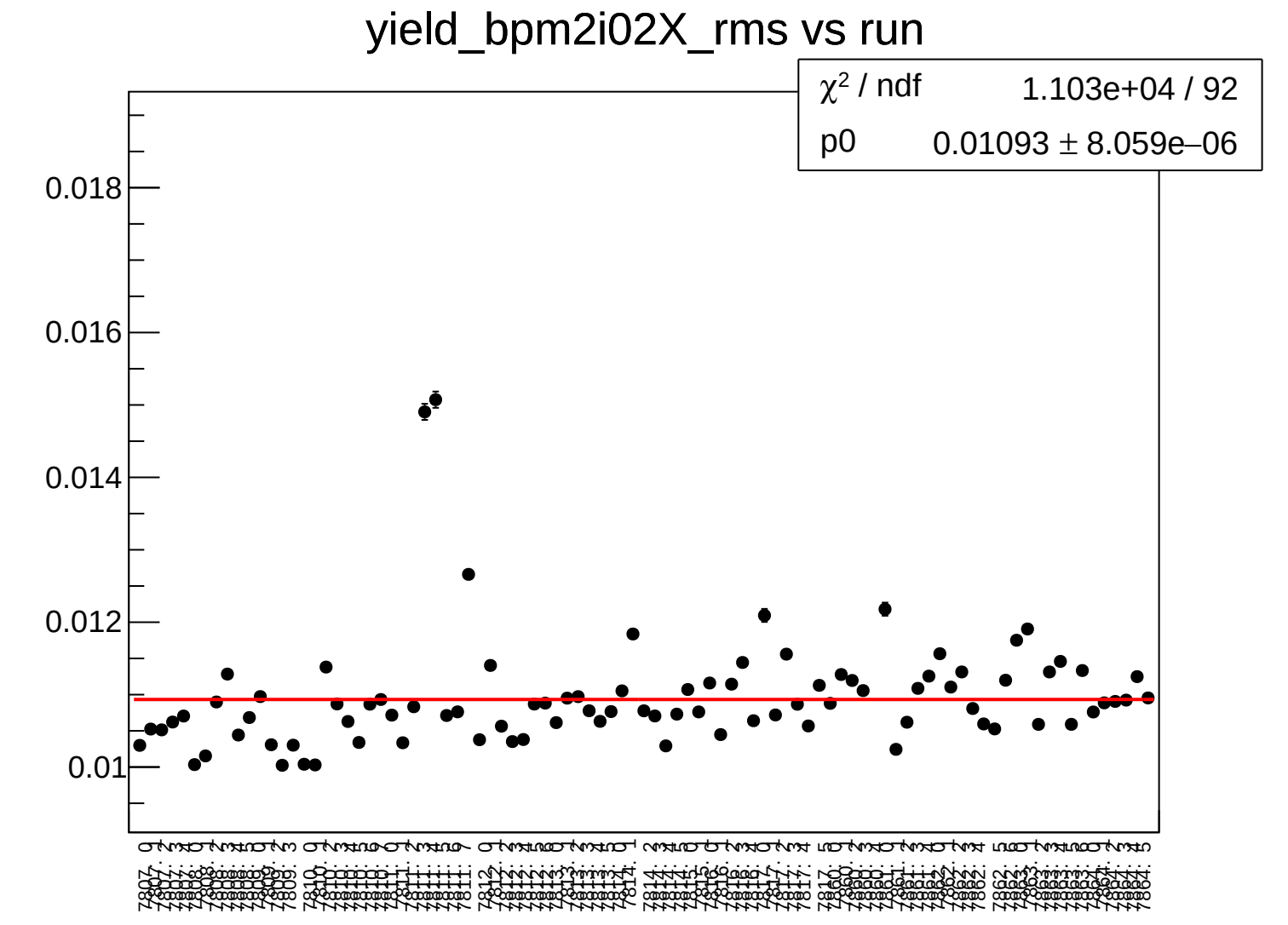

yield_bpm2i01X_mean vs run
χ² / ndf 4.587e+08 / 92
p0 0.7913 ± 4.361e−06
0.95
0.9
0.85
0.8
0.75
0.7
pull
Entries 93
Mean 7066
Std Dev 0
4000
3000
2000
1000
0
−1000
−2000
pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

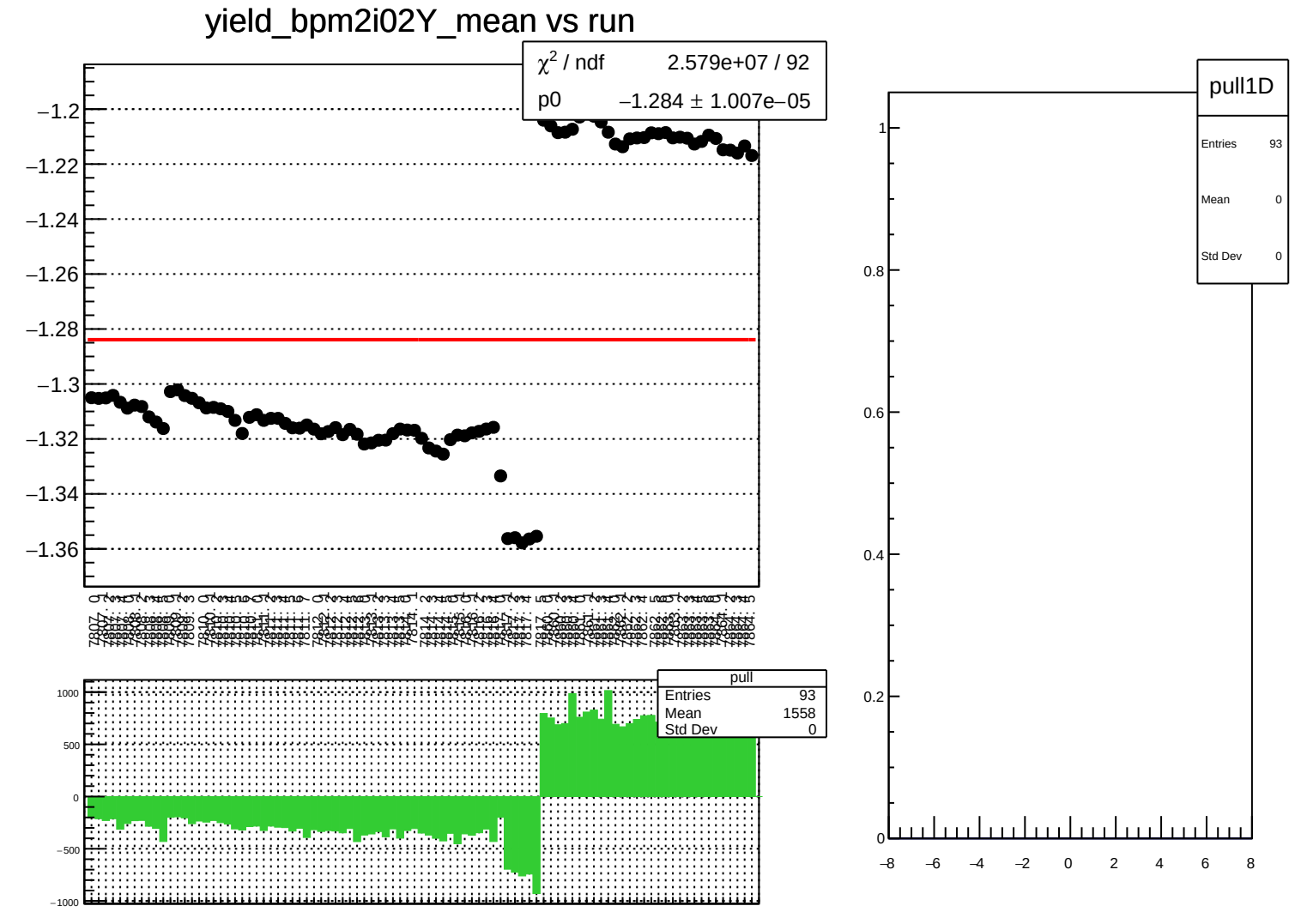

yield_bpm2i01X_rms vs run
χ^2 / ndf 1.094e+04 / 92
p0 0.004183 ± 3.083e−06
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035

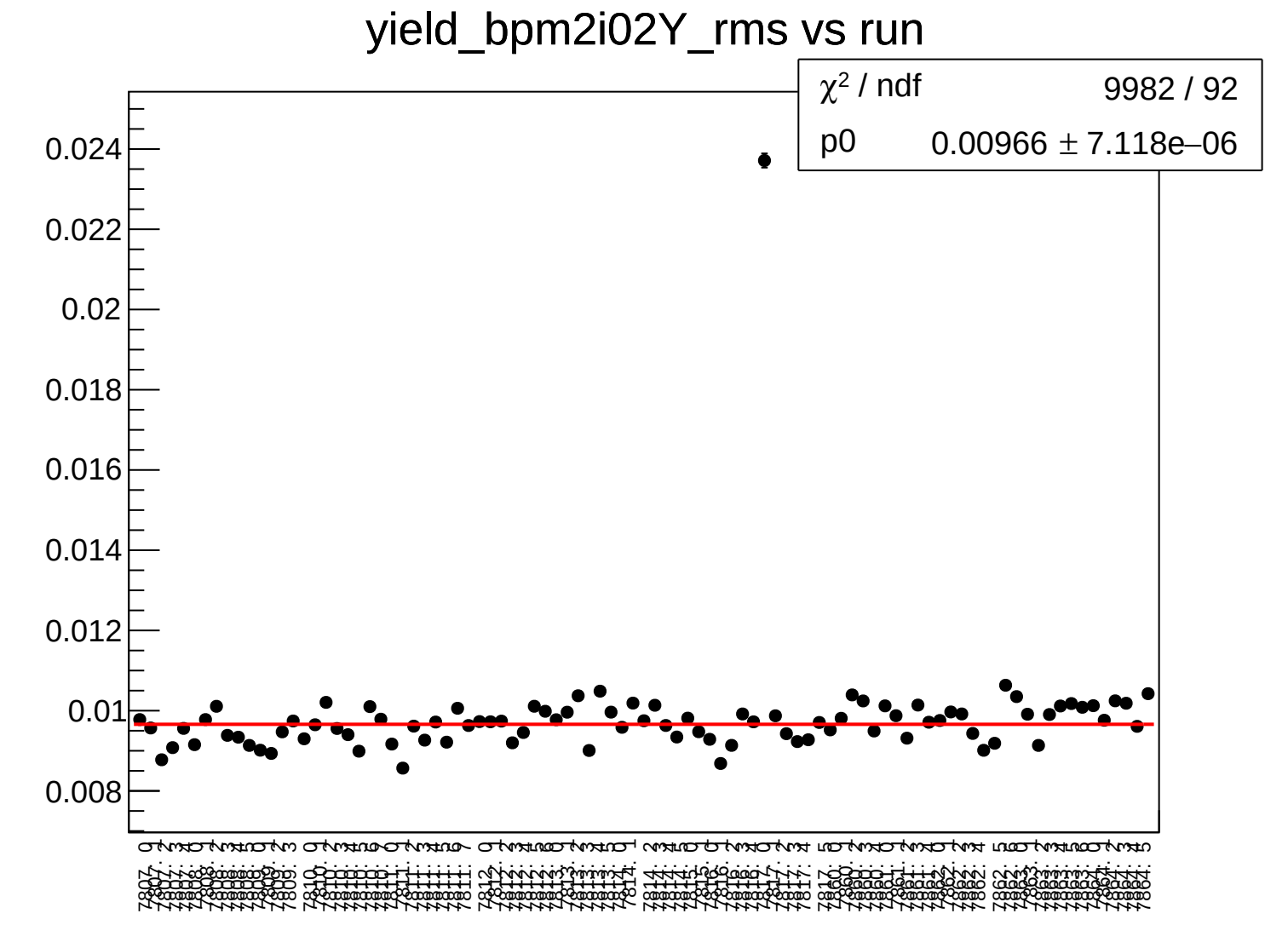

yield_bpm2i01Y_mean vs run
χ² / ndf 7.626e+07 / 92
p0 −4.691 ± 3.388e−06
−4.66
−4.67
−4.68
−4.69
−4.7
−4.71
−4.72
−4.73
−4.74
pull
Entries 93
Mean −5290
Std Dev 0
1000
500
0
−500
−1000
−1500
pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

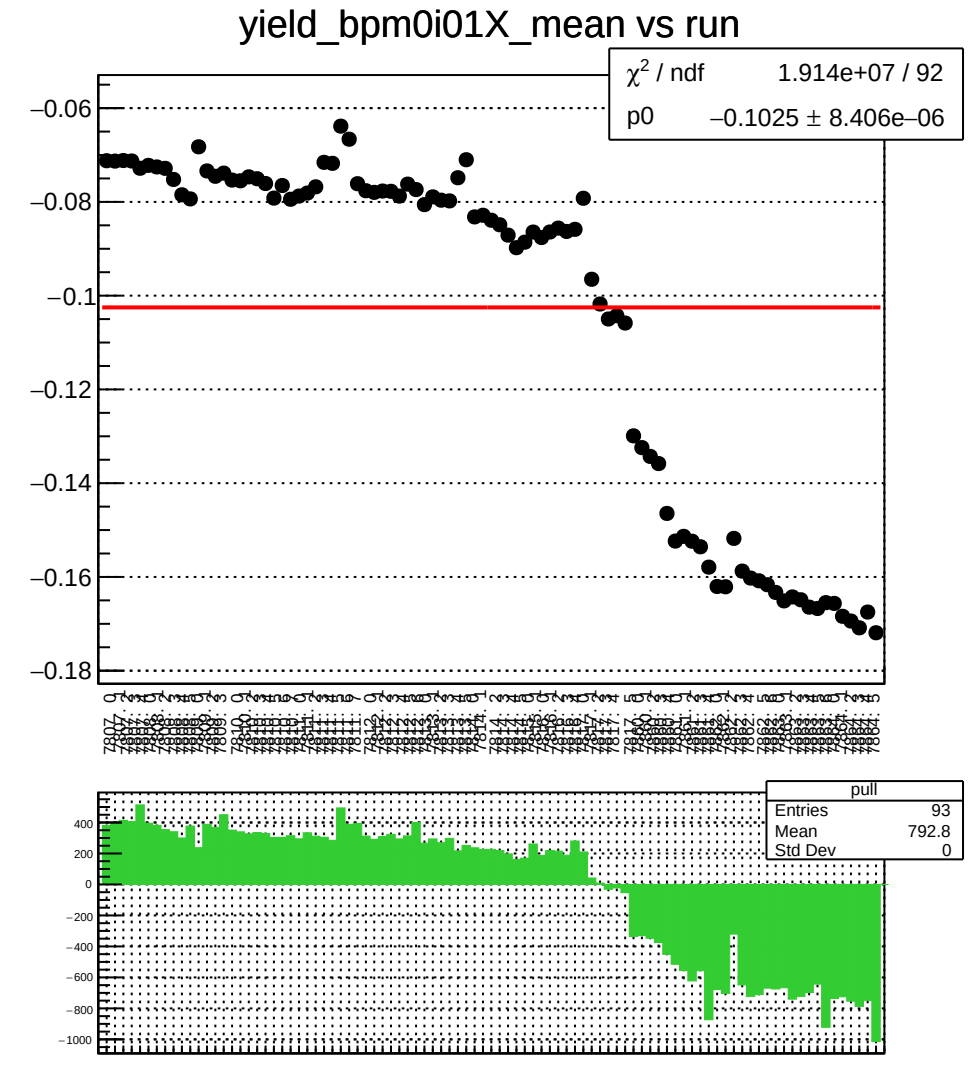

yield_bpm2i01Y_rms vs run
χ² / ndf 1.877e+04 / 92
p0 0.003244 ± 2.396e−06
0.014
0.012
0.01
0.008
0.006
0.004
0.002

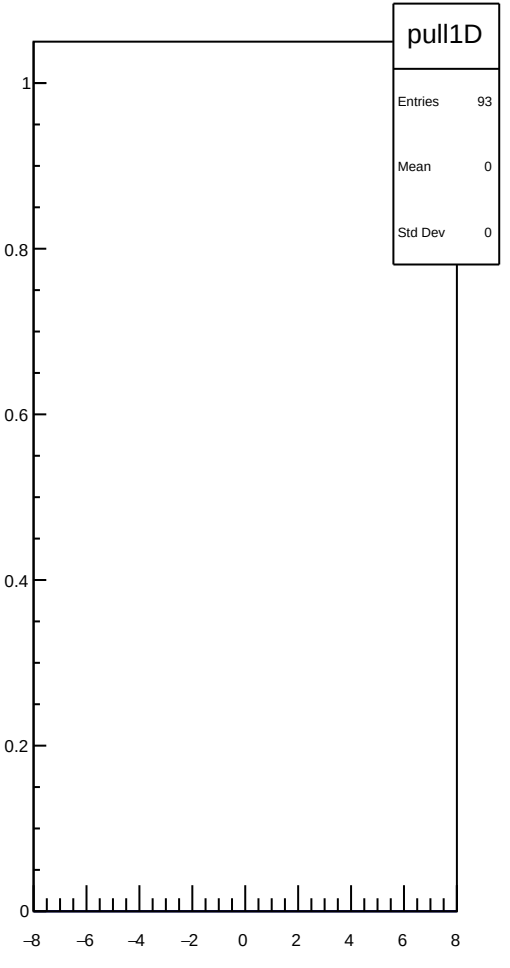

yield_bpm2i02X_mean vs run
χ² / ndf 7.68e+08 / 92
p0 −0.3791± 1.14e−05
pull
Entries 93
Mean 1372
Std Dev 0
pull1D
Entries 93
Mean 0
Std Dev 0

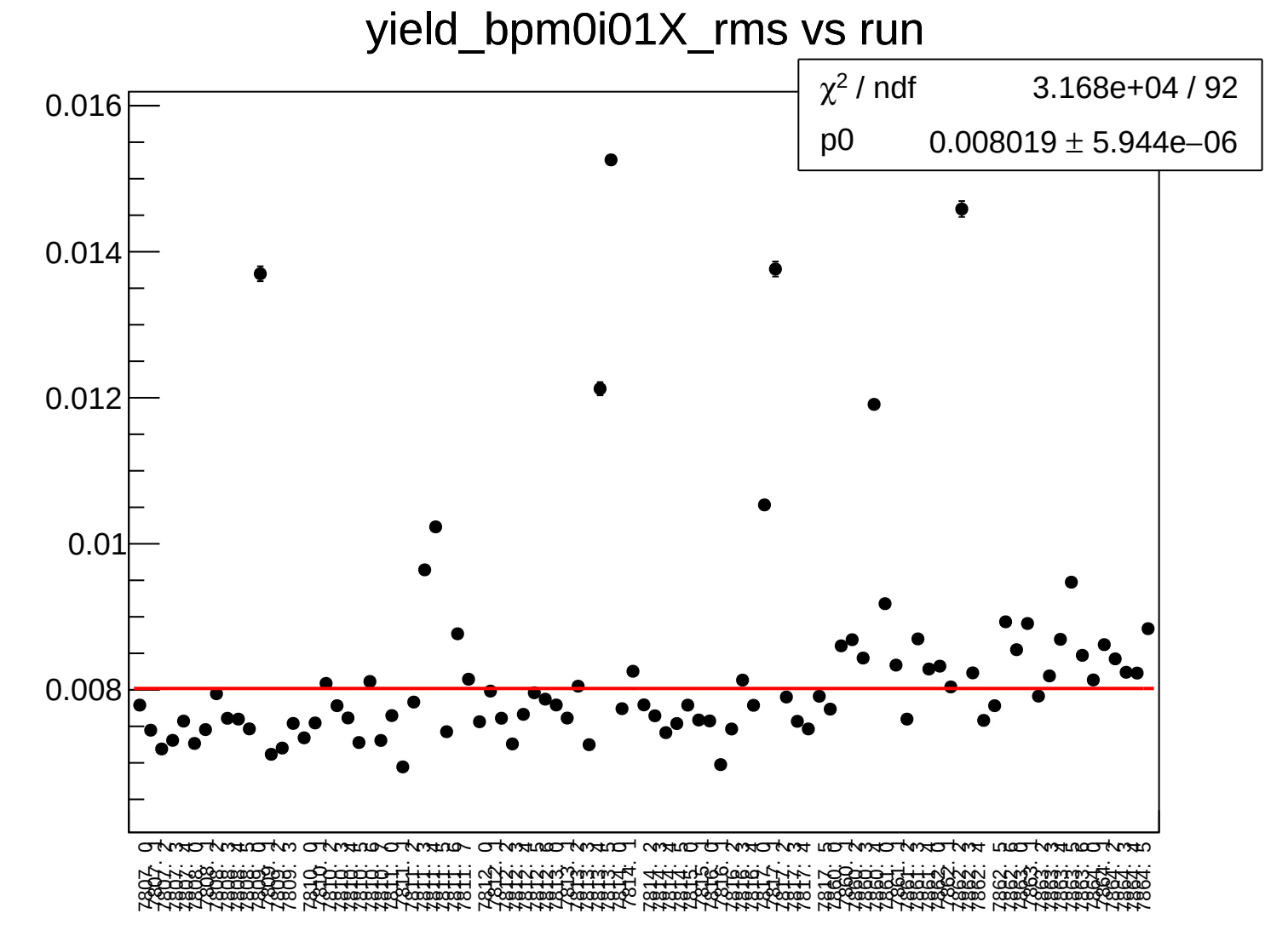

yield_bpm2i02X_rms vs run
χ² / ndf 1.103e+04 / 92
p0 0.01093 ± 8.059e–06
0.018
0.016
0.014
0.012
0.01

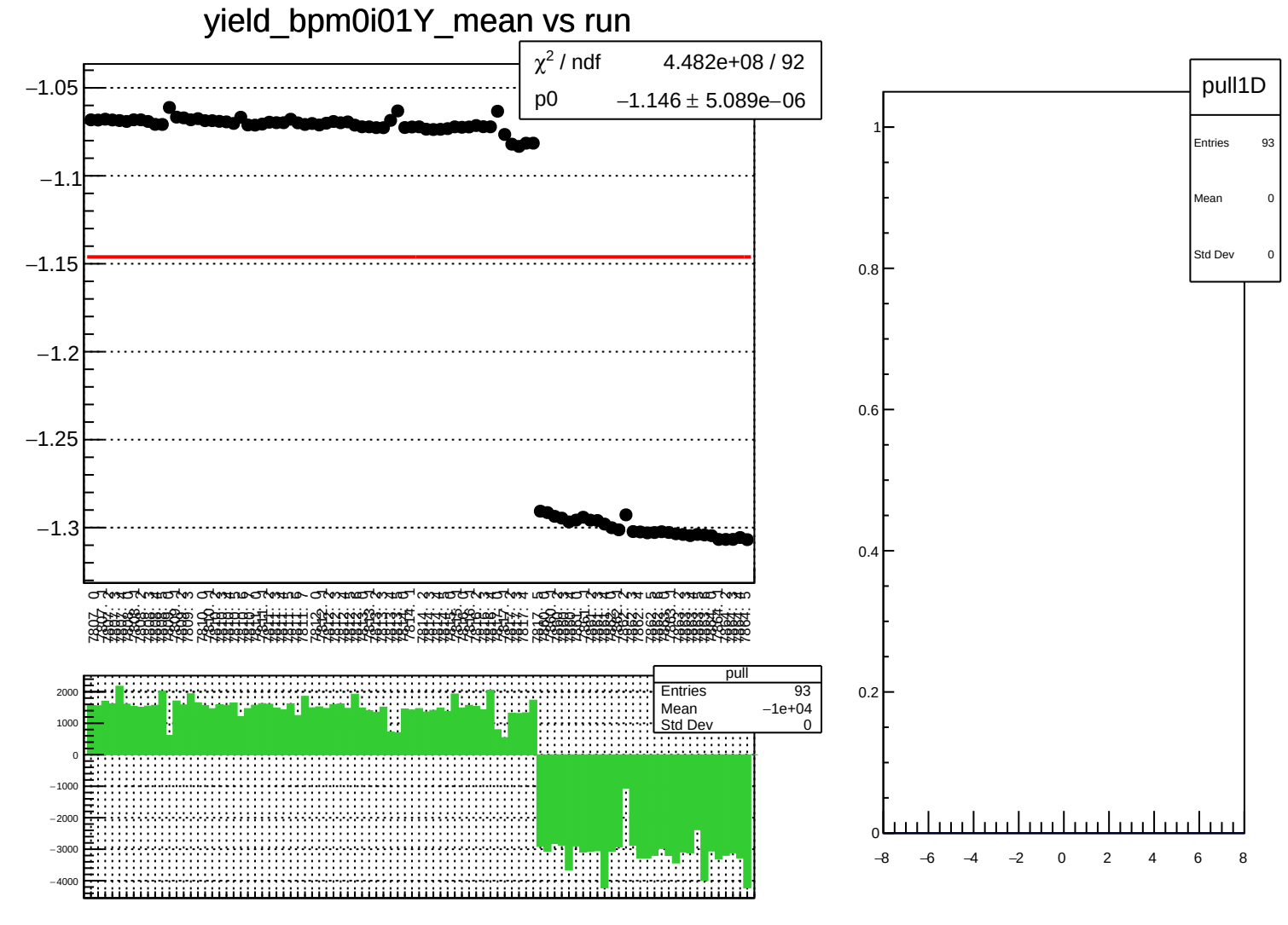

yield_bpm2i02Y_mean vs run
χ² / ndf 2.579e+07 / 92
p0 −1.284 ± 1.007e−05
−1.2
−1.22
−1.24
−1.26
−1.28
−1.3
−1.32
−1.34
−1.36
pull
Entries 93
Mean 1558
Std Dev 0
1000
500
0
−500
−1000
pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

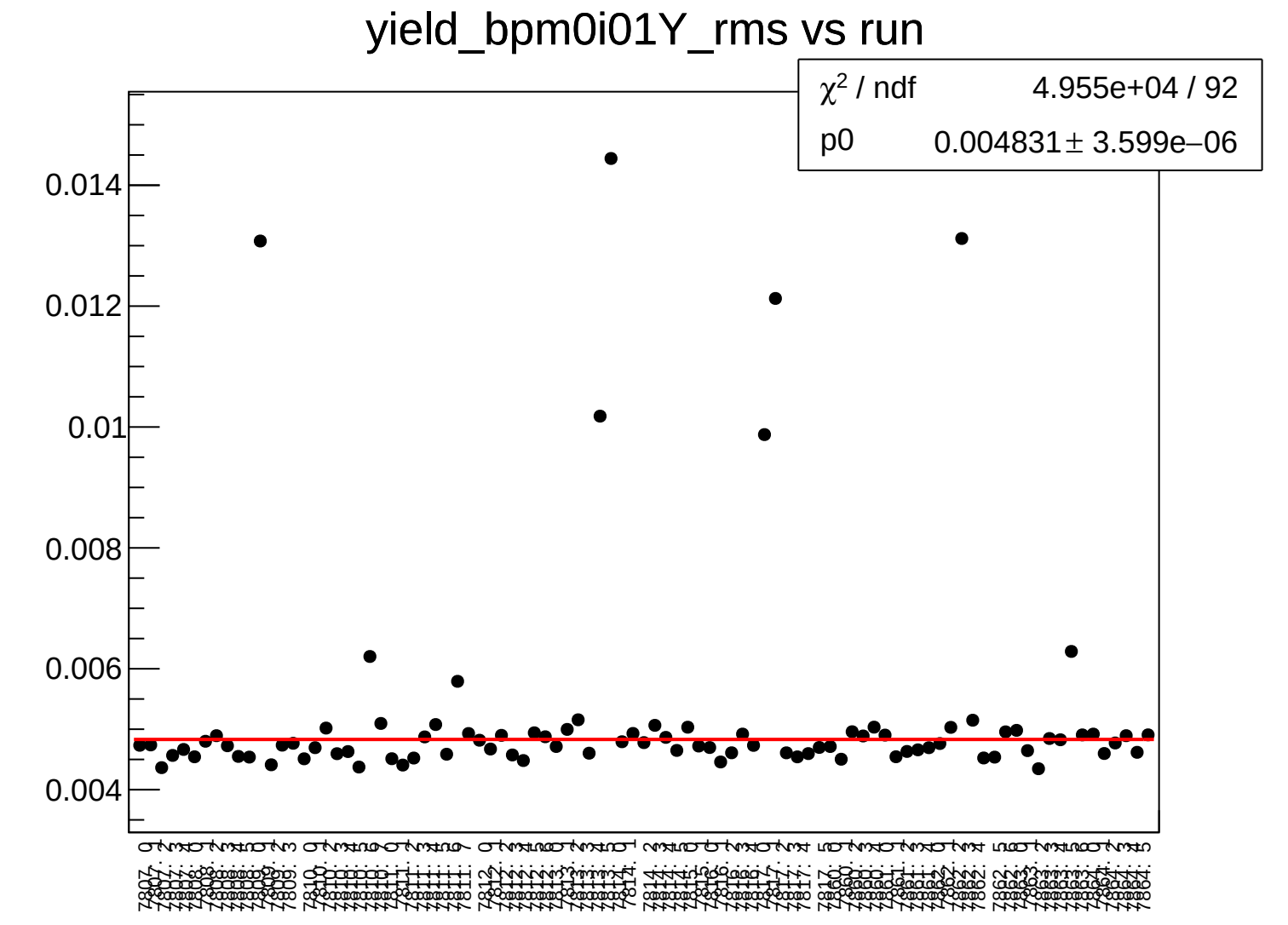

yield_bpm2i02Y_rms vs run
χ² / ndf 9982 / 92
p0 0.00966 ± 7.118e–06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008

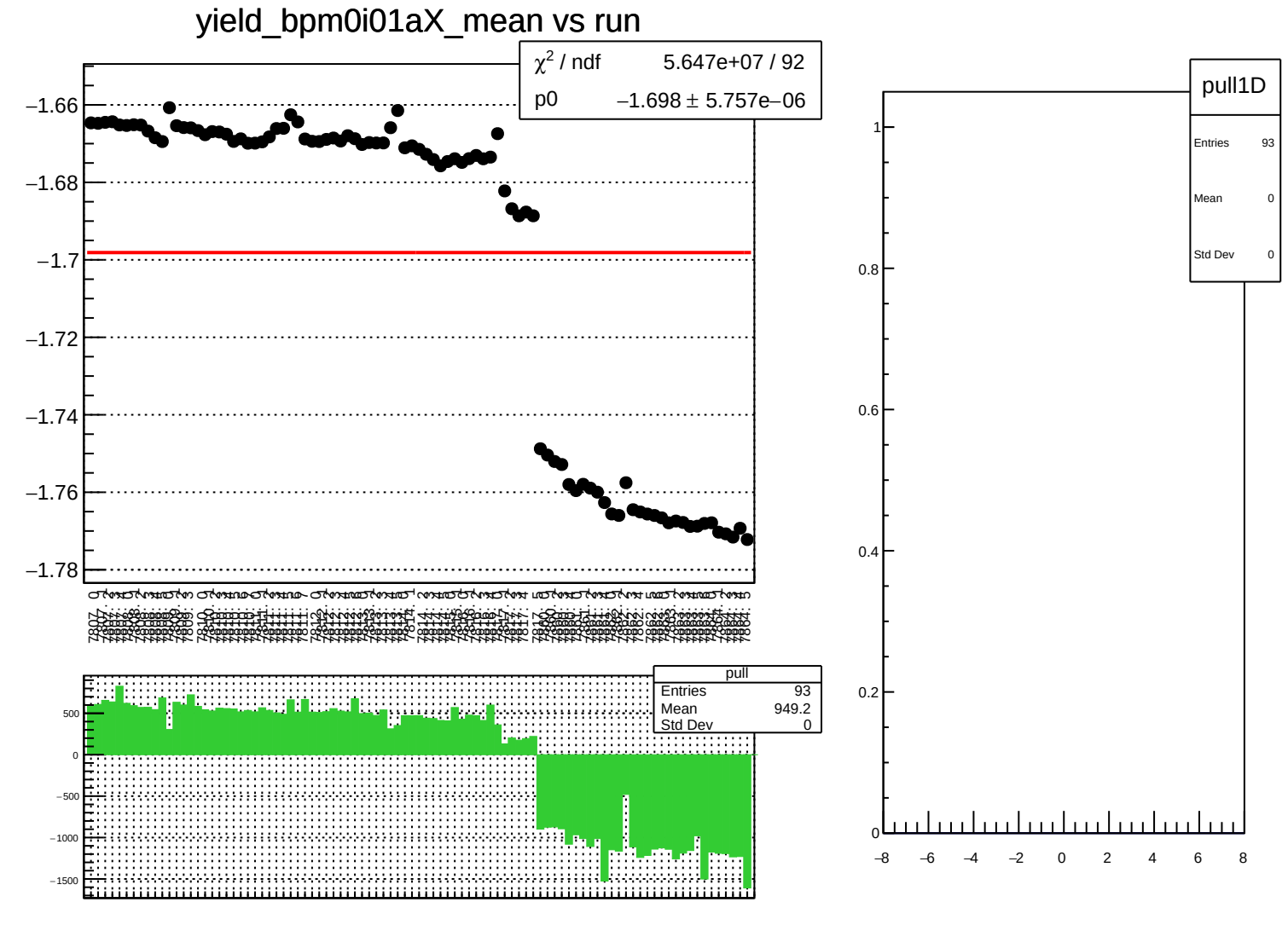

yield_bpm0i01X_mean vs run
χ² / ndf 1.914e+07 / 92
p0 −0.1025 ± 8.406e−06
−0.06
−0.08
−0.1
−0.12
−0.14
−0.16
−0.18
pull
Entries 93
Mean 792.8
Std Dev 0
400
200
0
−200
−400
−600
−800
−1000

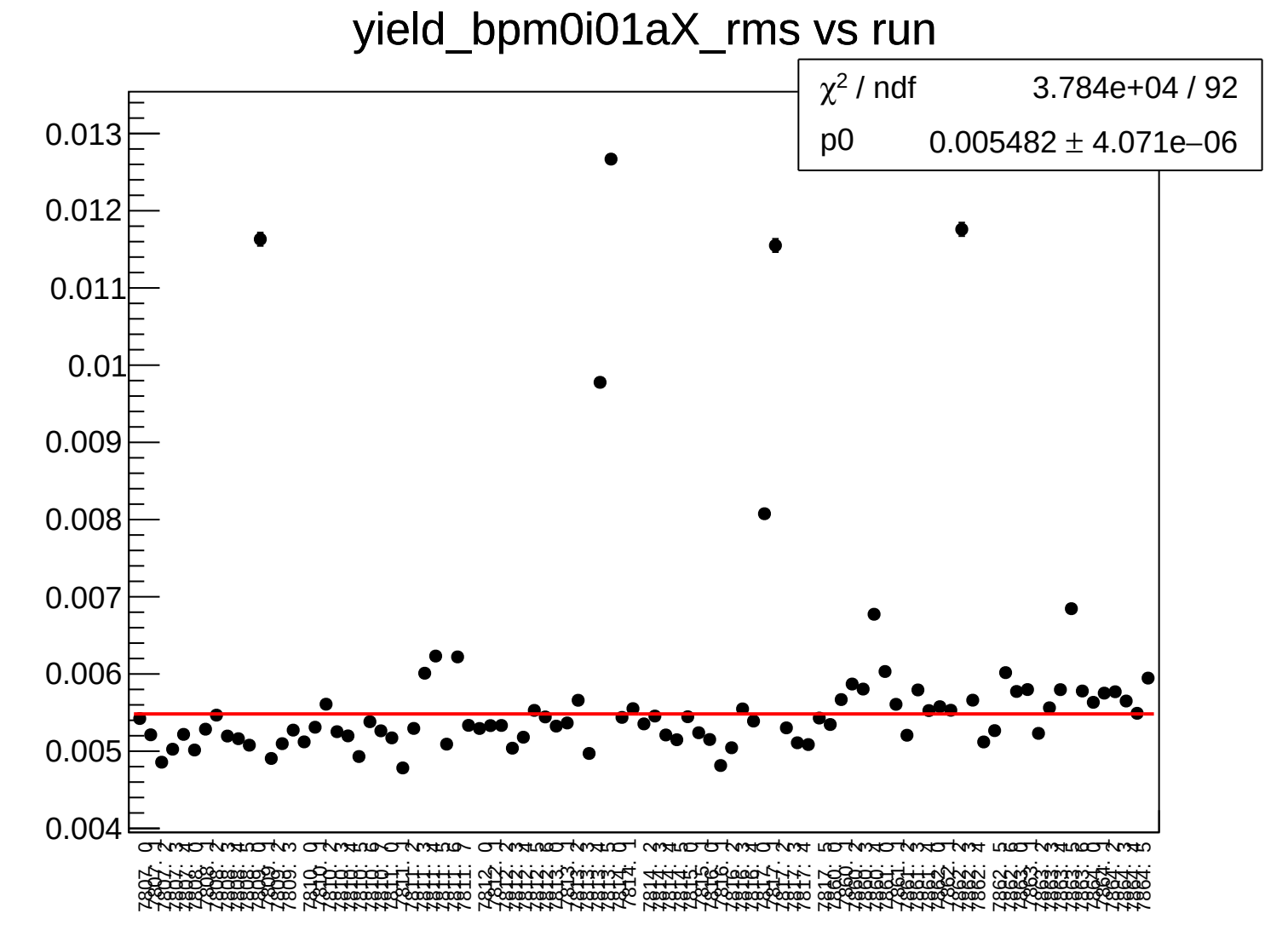

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

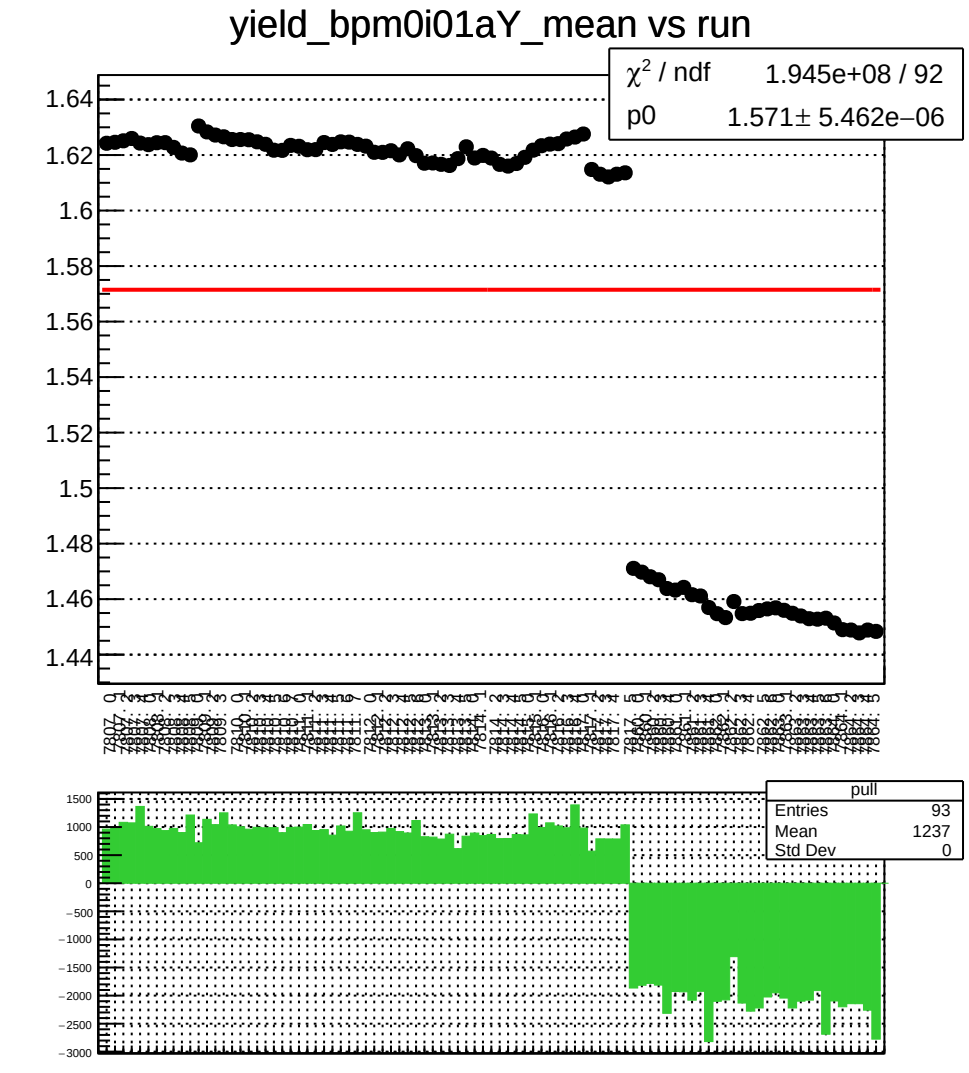

yield_bpm0i01X_rms vs run
χ² / ndf 3.168e+04 / 92
p0 0.008019 ± 5.944e−06
0.016
0.014
0.012
0.01
0.008

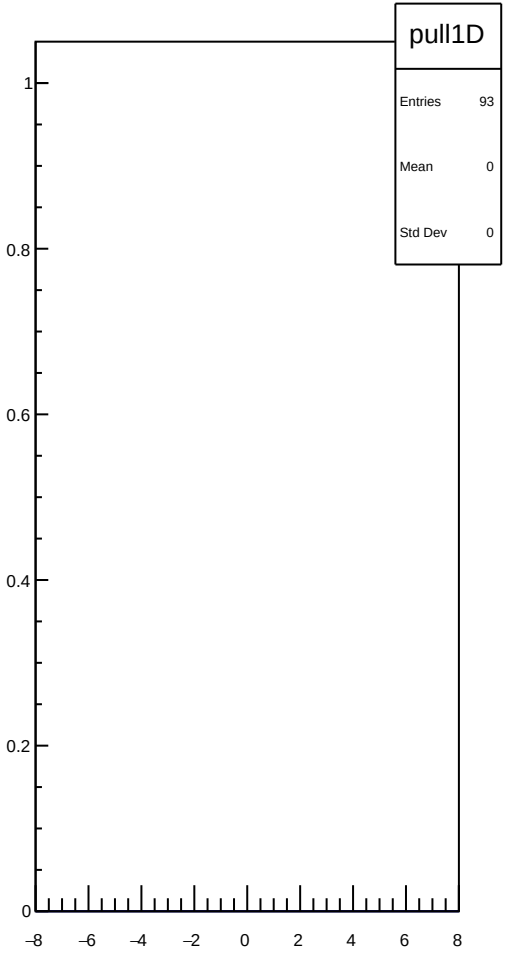

yield_bpm0i01Y_mean vs run
χ² / ndf 4.482e+08 / 92
p0 −1.146 ± 5.089e−06
−1.05
−1.1
−1.15
−1.2
−1.25
−1.3
pull
Entries 93
Mean −1e+04
Std Dev 0
2000
1000
0
−1000
−2000
−3000
−4000
pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

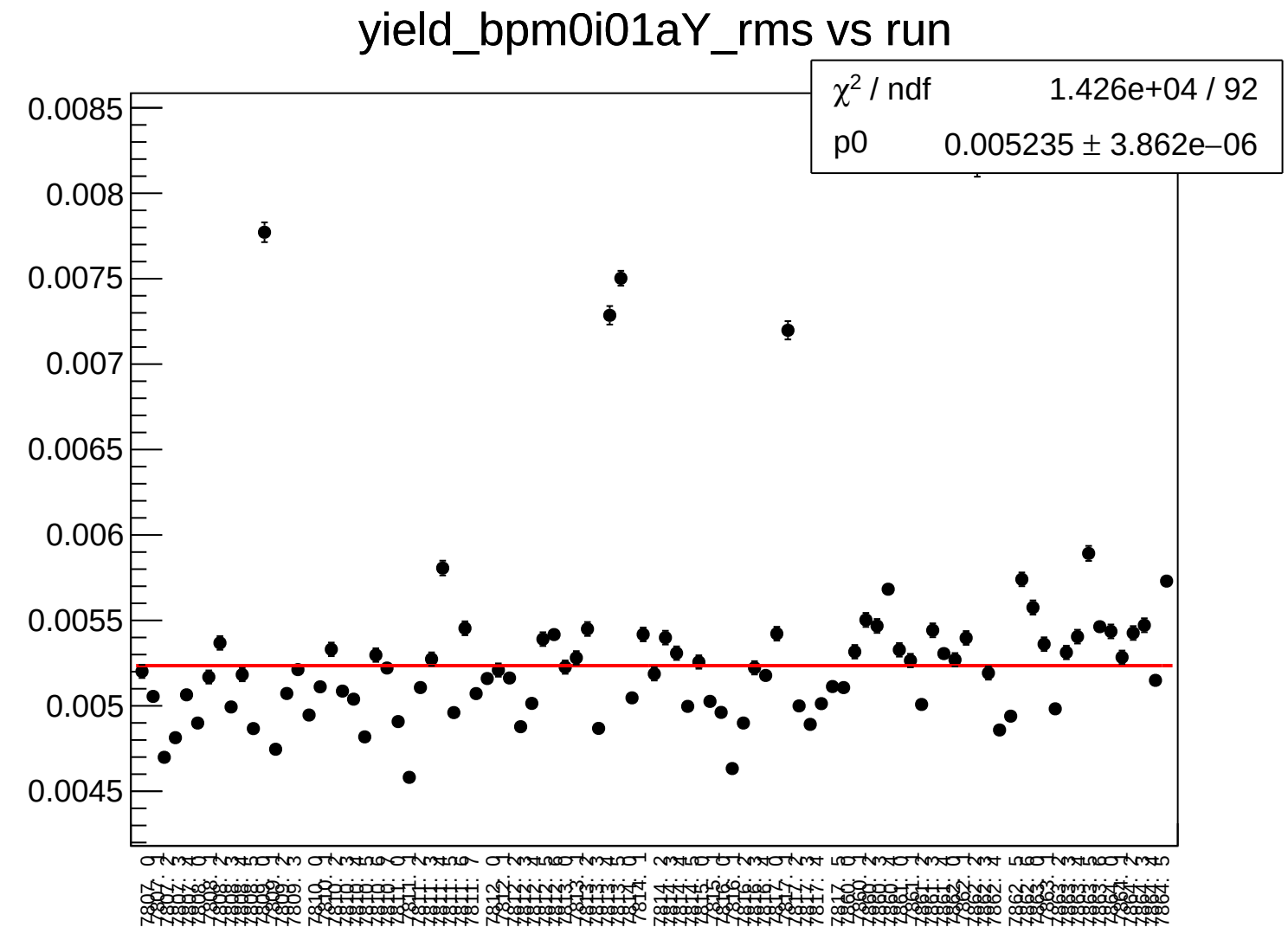

yield_bpm0i01Y_rms vs run
χ² / ndf 4.955e+04 / 92
p0 0.004831 ± 3.599e−06
0.014
0.012
0.01
0.008
0.006
0.004

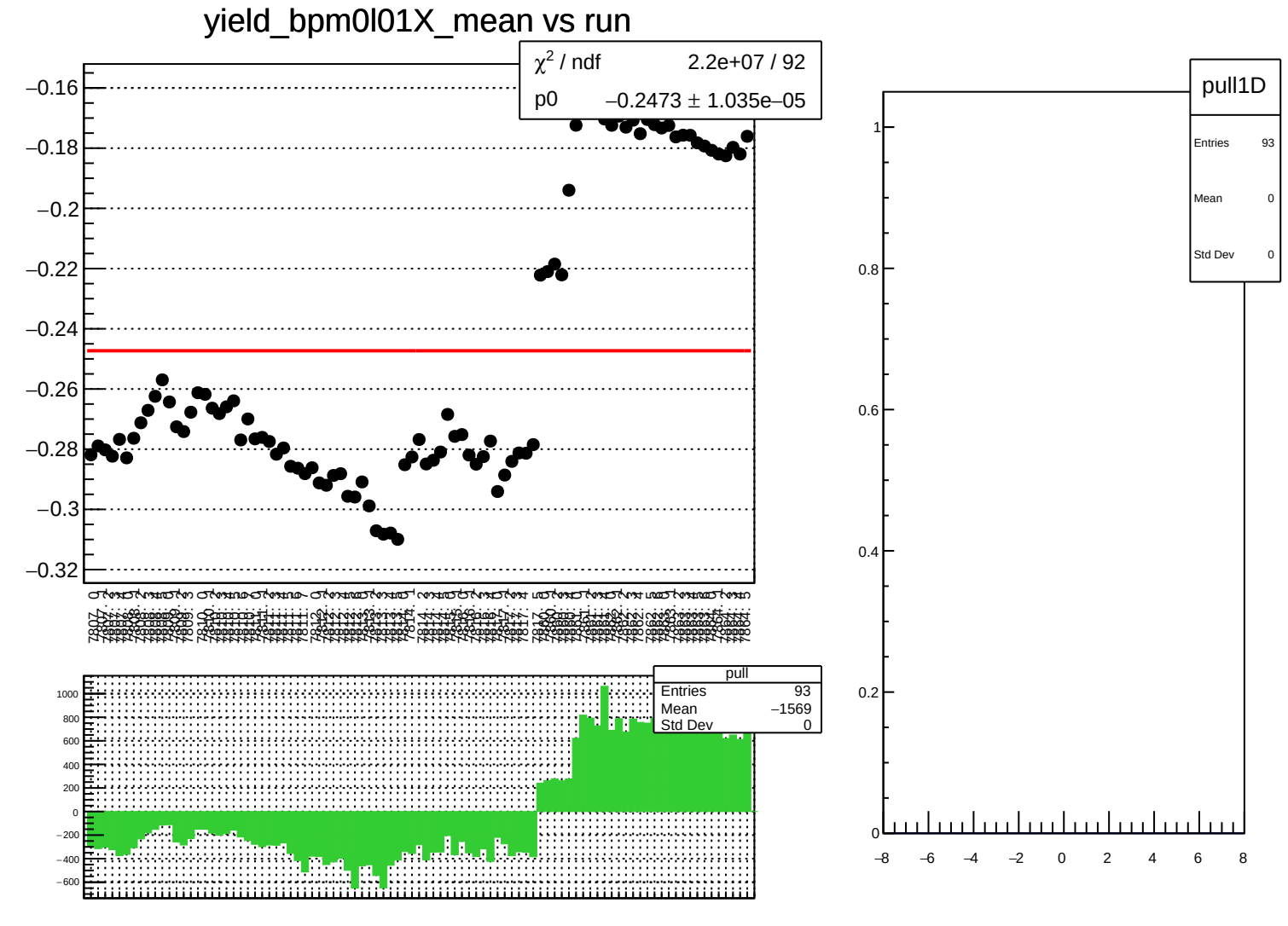

yield_bpm0i01aX_mean vs run
χ² / ndf 5.647e+07 / 92
p0 −1.698 ± 5.757e−06
−1.66
−1.68
−1.7
−1.72
−1.74
−1.76
−1.78
pull
Entries 93
Mean 949.2
Std Dev 0
500
0
−500
−1000
−1500
pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

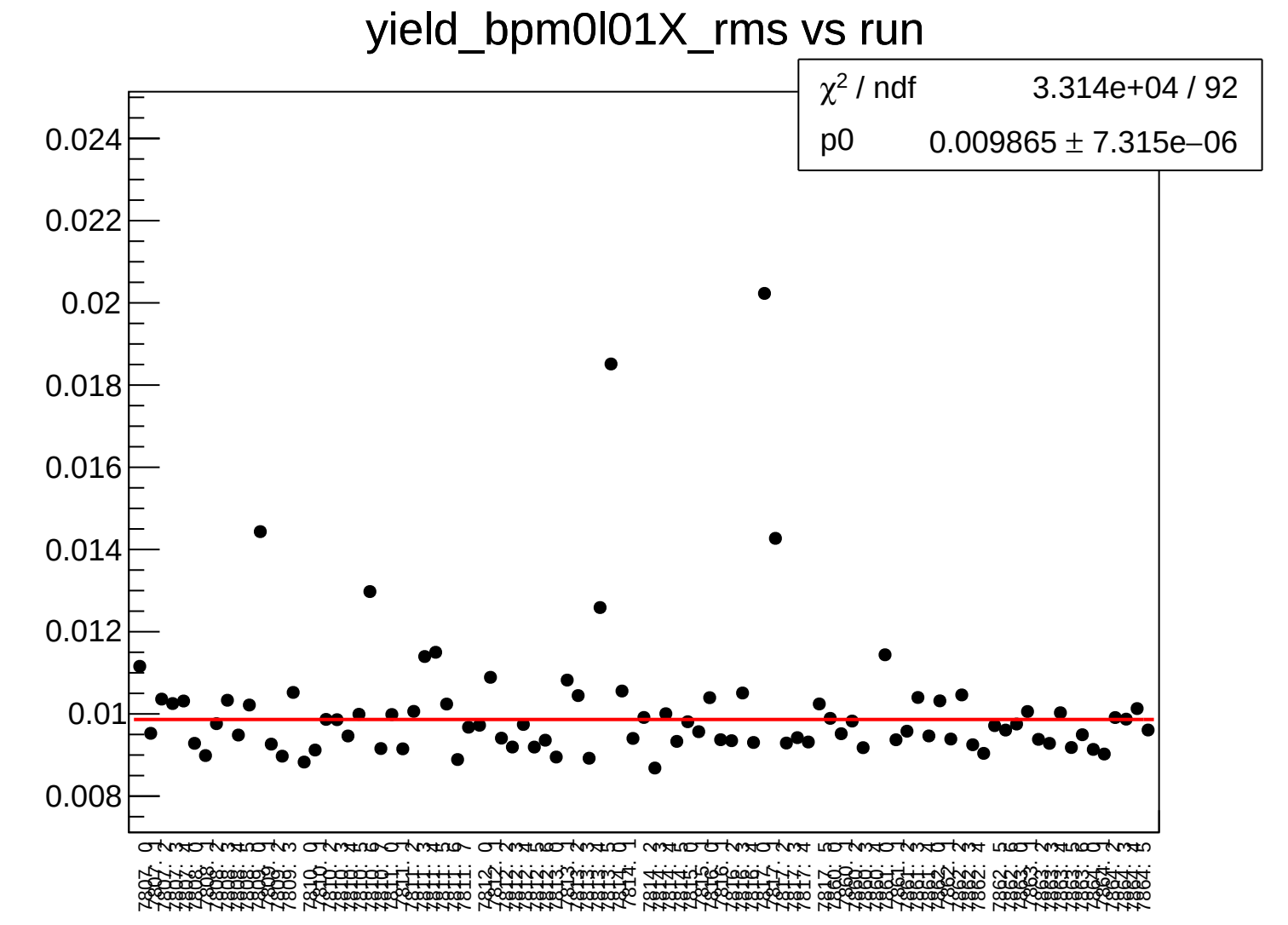

yield_bpm0i01aX_rms vs run
χ² / ndf 3.784e+04 / 92
p0 0.005482 ± 4.071e−06
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004

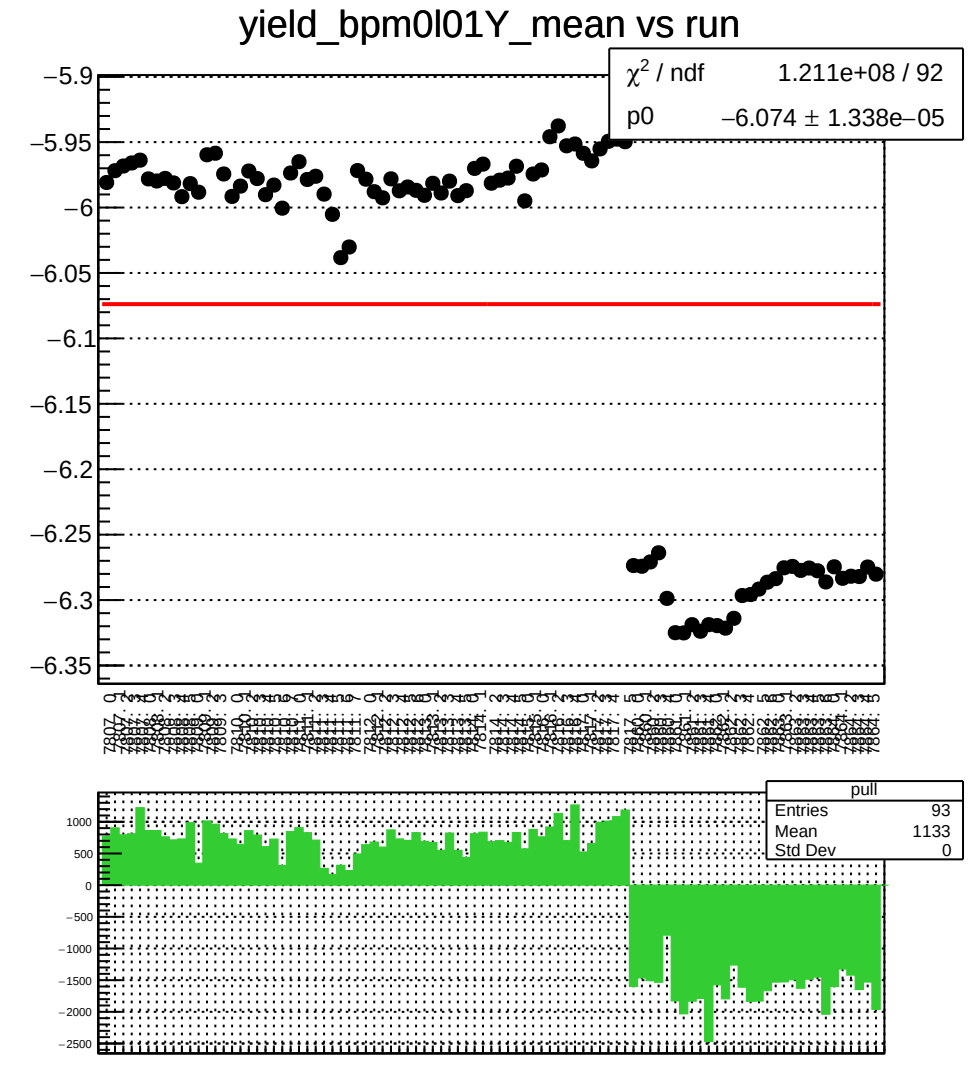

yield_bpm0i01aY_mean vs run
χ² / ndf 1.945e+08 / 92
p0 1.571± 5.462e−06
1.64
1.62
1.6
1.58
1.56
1.54
1.52
1.5
1.48
1.46
1.44
pull
Entries 93
Mean 1237
Std Dev 0
1500
1000
500
0
−500
−1000
−1500
−2000
−2500
−3000

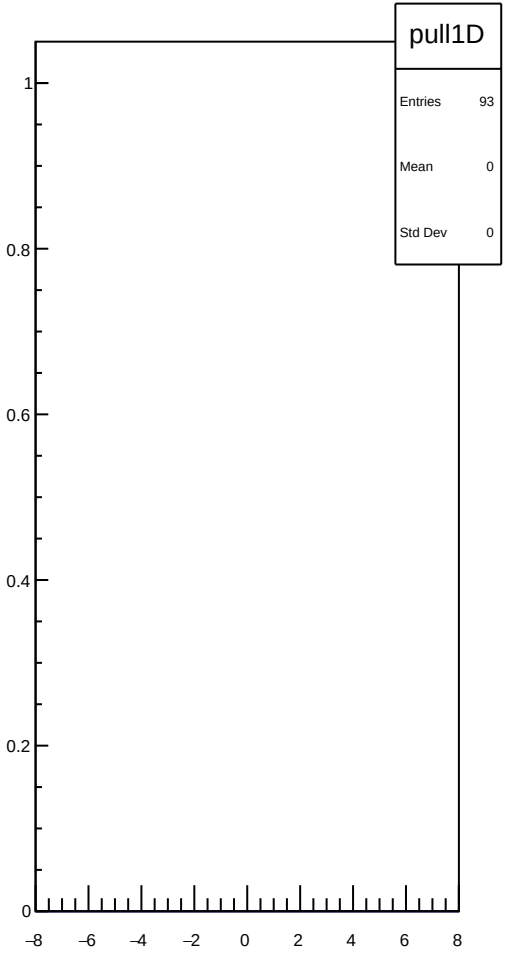

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

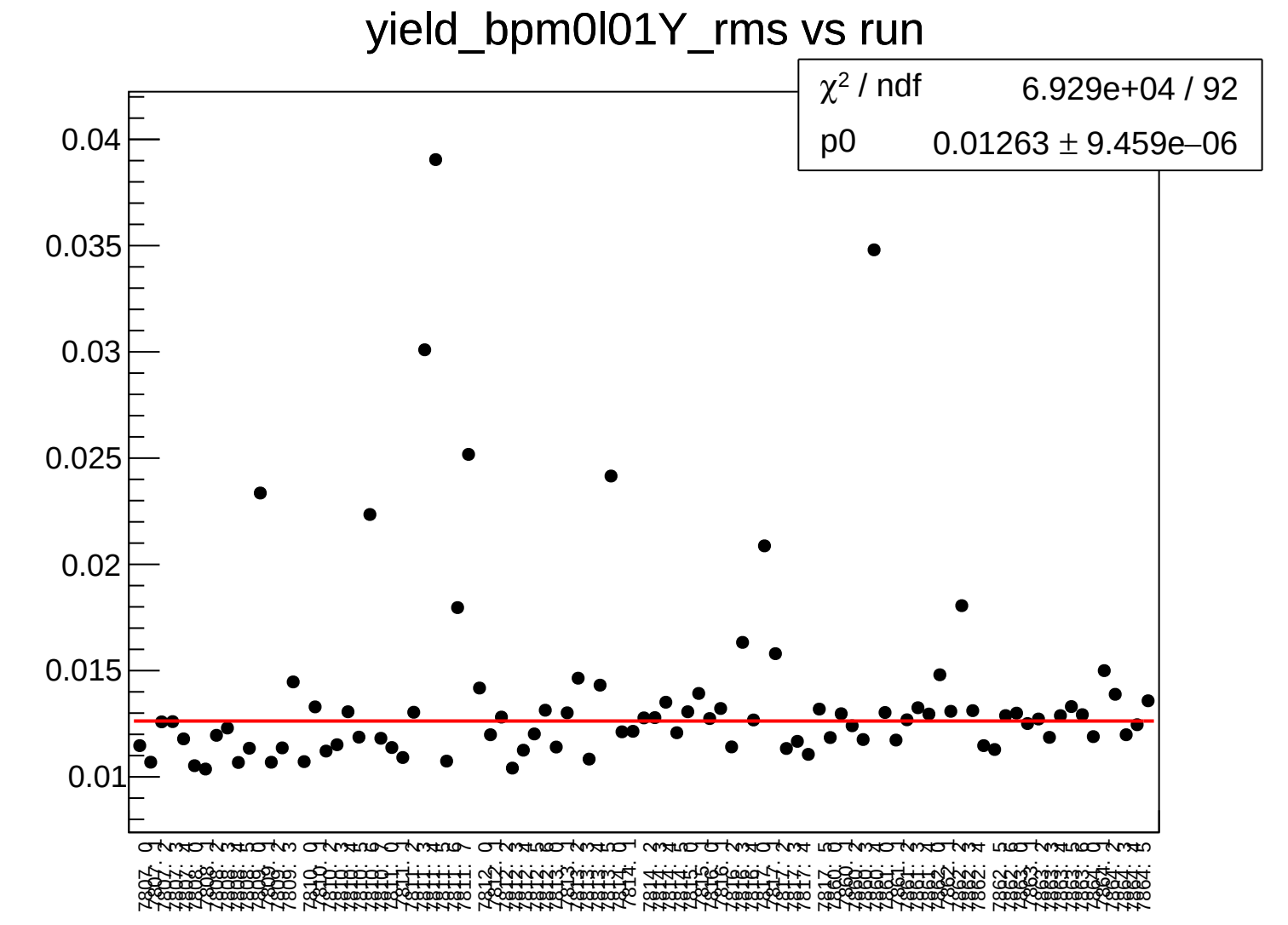

yield_bpm0i01aY_rms vs run
χ² / ndf 1.426e+04 / 92
p0 0.005235 ± 3.862e−06
0.0085
0.008
0.0075
0.007
0.0065
0.006
0.0055
0.005
0.0045

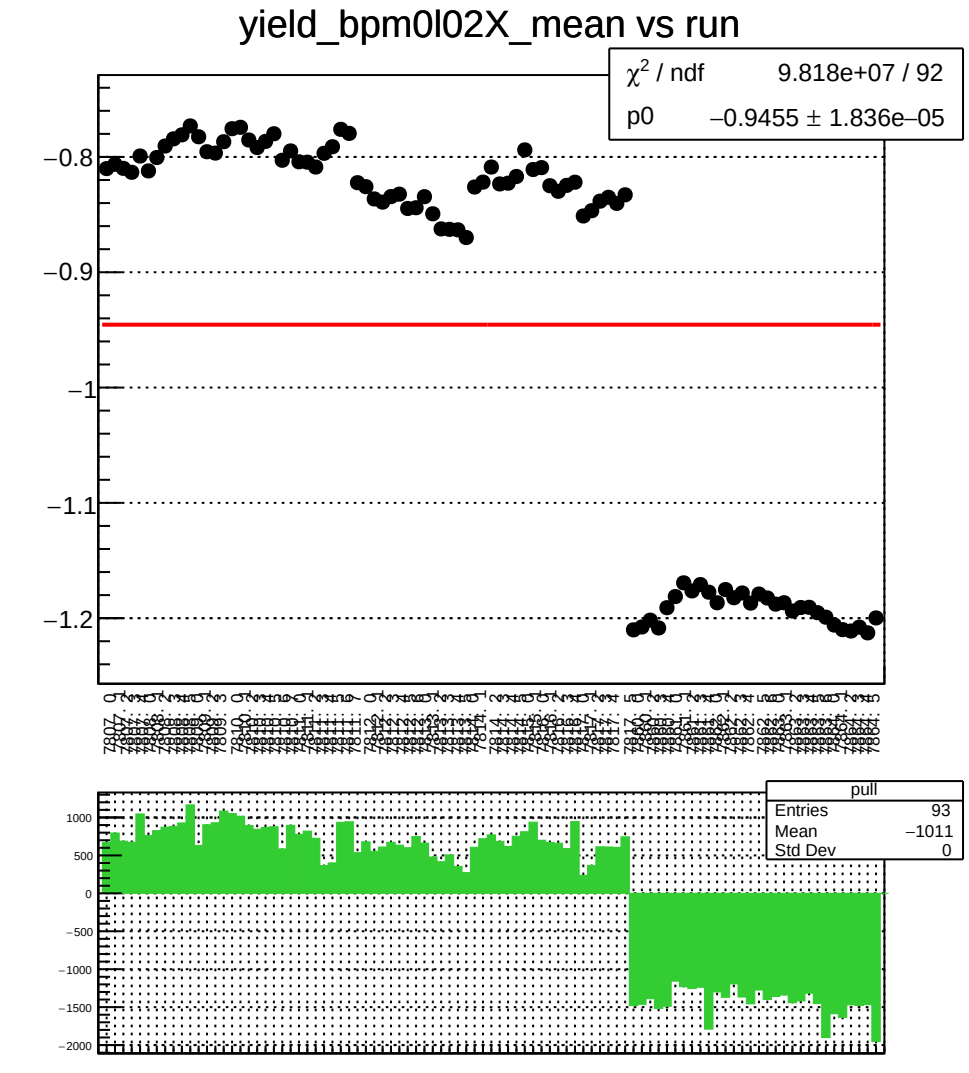

yield_bpm0l01X_mean vs run
χ² / ndf 2.2e+07 / 92
p0 −0.2473 ± 1.035e−05
−0.16
−0.18
−0.2
−0.22
−0.24
−0.26
−0.28
−0.3
−0.32
pull
Entries 93
Mean −1569
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600
pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

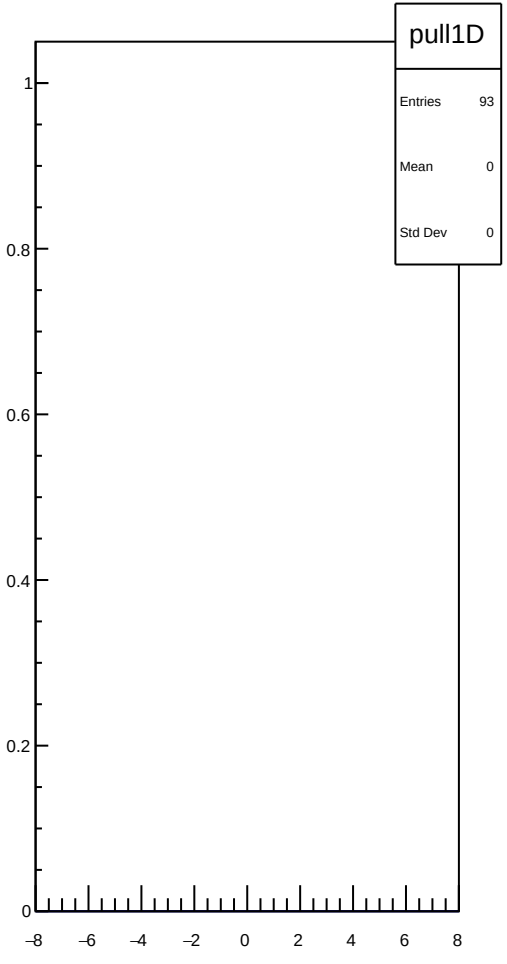

yield_bpm0l01X_rms vs run
χ^2 / ndf 3.314e+04 / 92
p0 0.009865 ± 7.315e−06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008

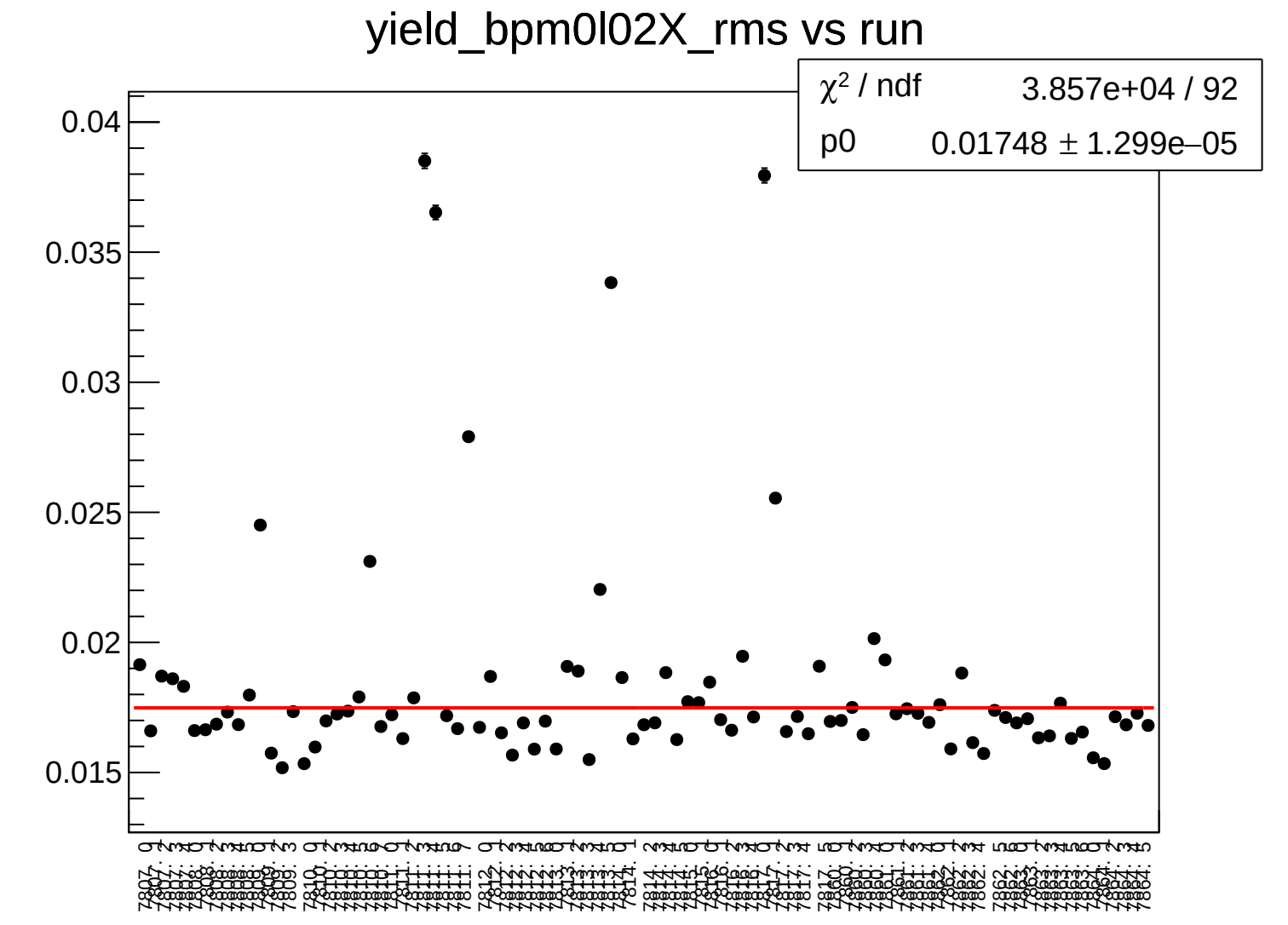

yield_bpm0l01Y_mean vs run
χ² / ndf 1.211e+08 / 92
p0 −6.074 ± 1.338e−05
−5.9
−5.95
−6
−6.05
−6.1
−6.15
−6.2
−6.25
−6.3
−6.35
pull
Entries 93
Mean 1133
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000
−2500

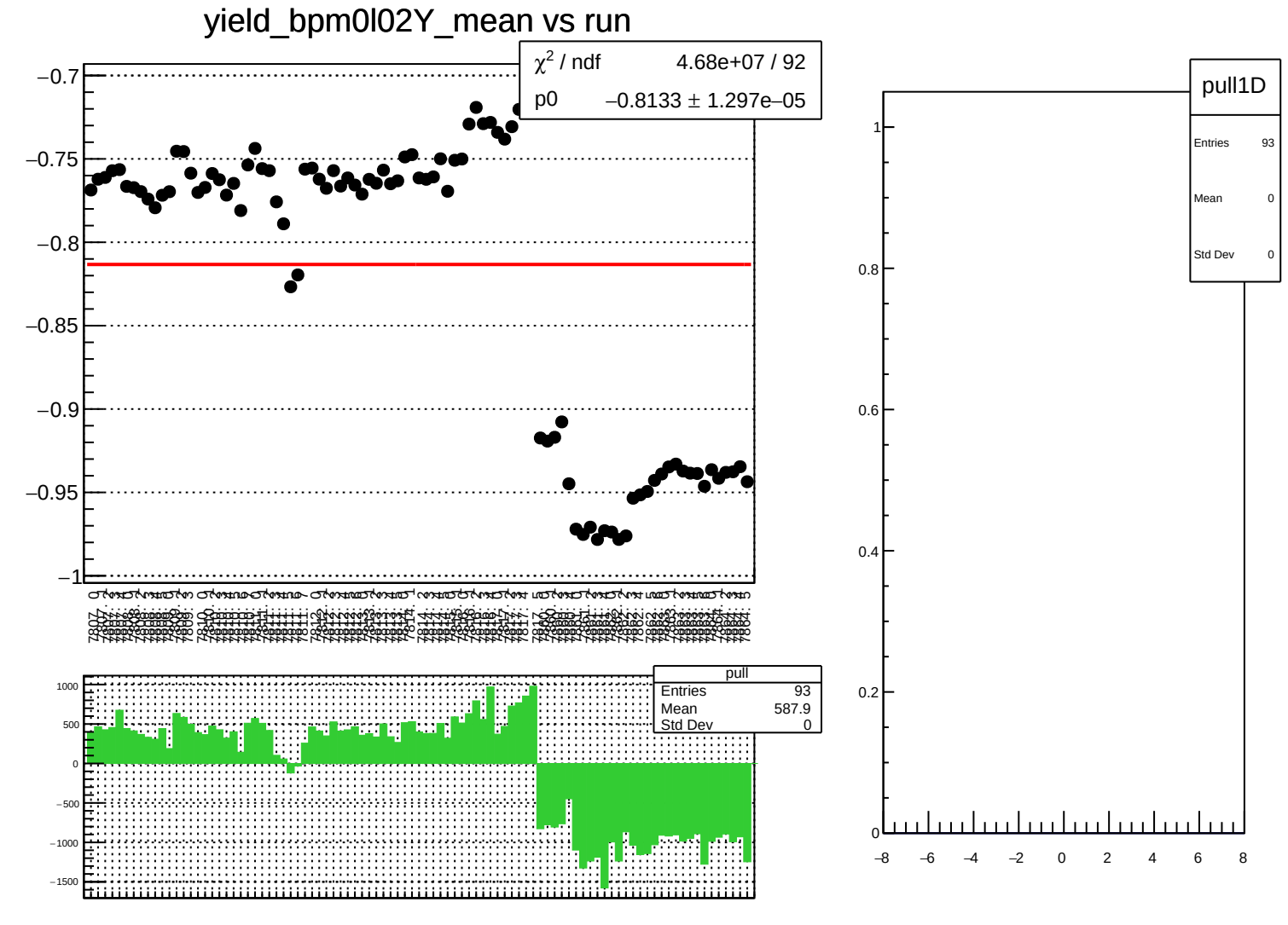

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

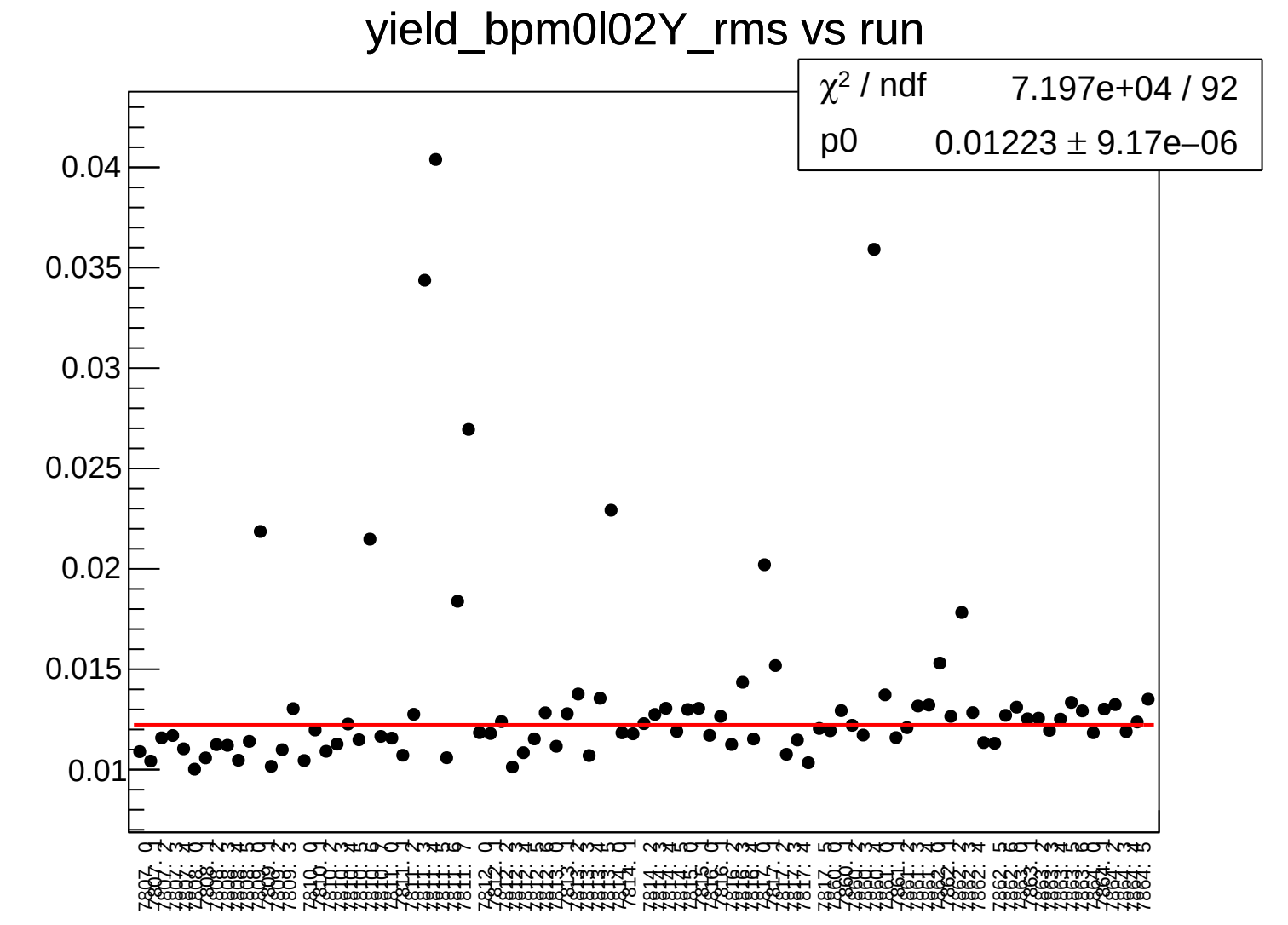

yield_bpm0l01Y_rms vs run
χ² / ndf 6.929e+04 / 92
p0 0.01263 ± 9.459e–06
0.04
0.035
0.03
0.025
0.02
0.015
0.01

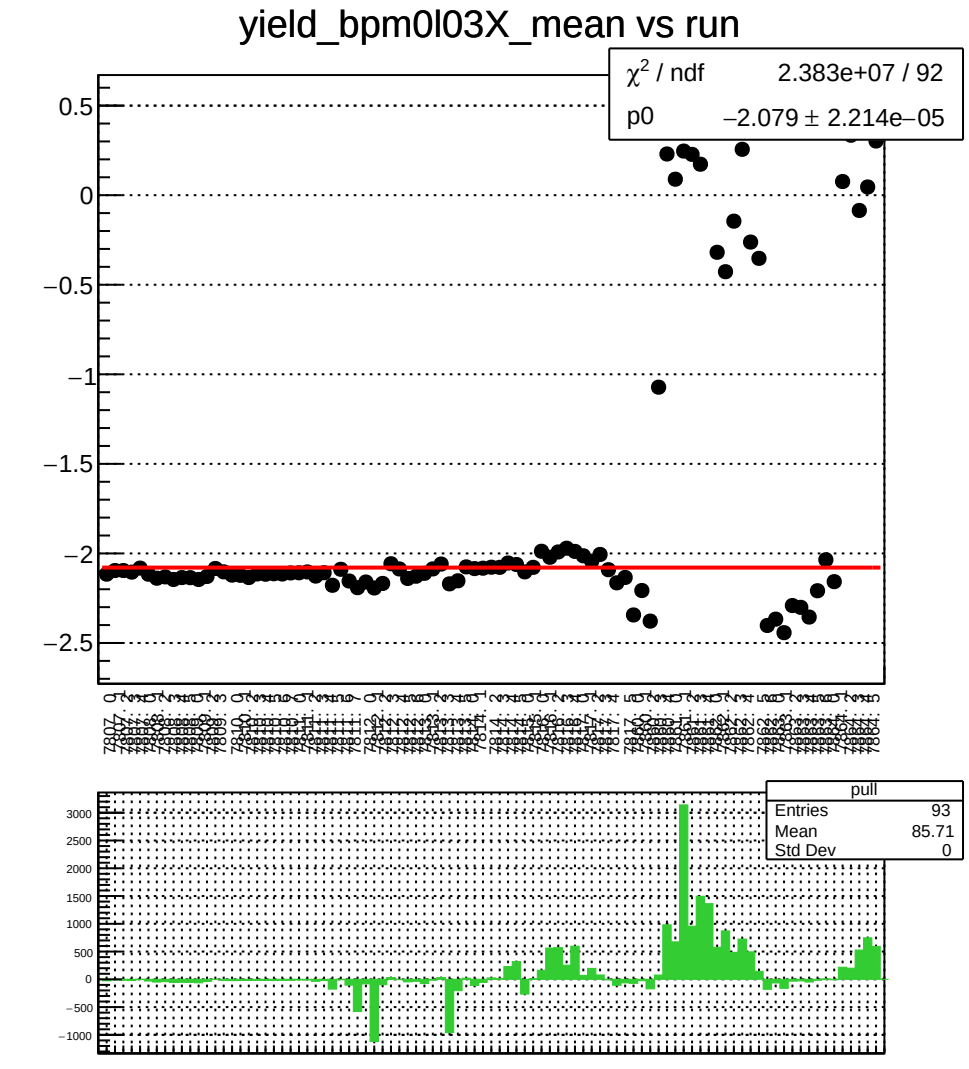

yield_bpm0l02X_mean vs run
χ² / ndf 9.818e+07 / 92
p0 −0.9455 ± 1.836e−05
−0.8
−0.9
−1
−1.1
−1.2
pull
Entries 93
Mean −1011
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000

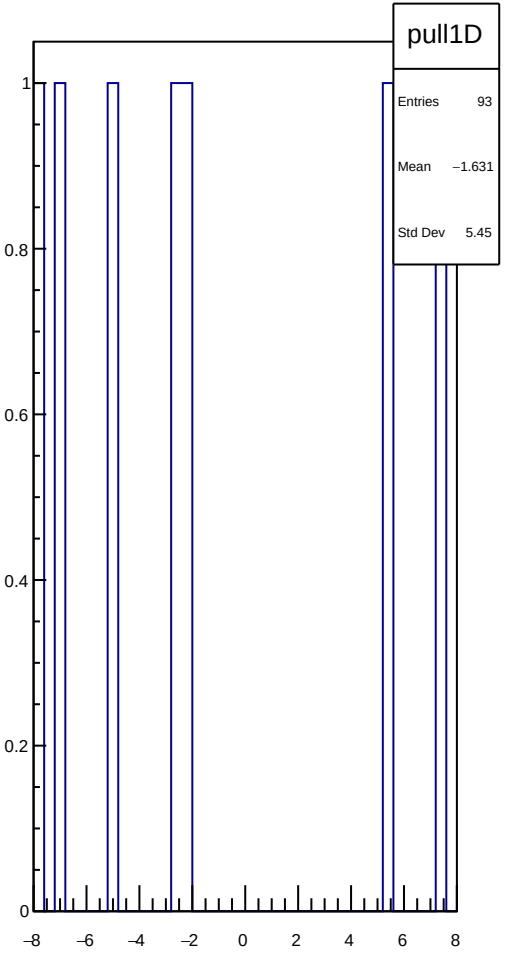

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

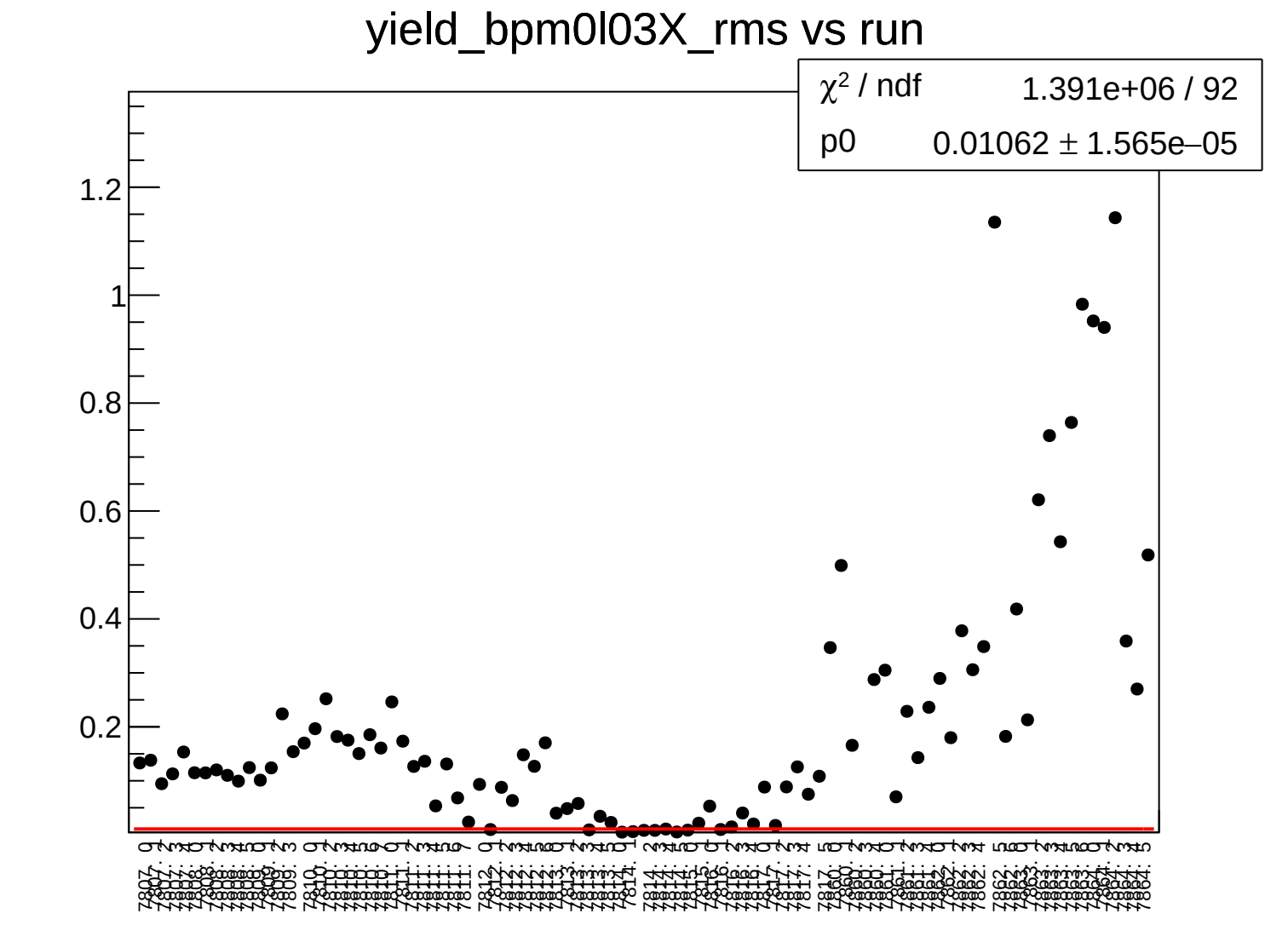

yield_bpm0l02X_rms vs run
χ² / ndf 3.857e+04 / 92
p0 0.01748 ± 1.299e–05
0.04
0.035
0.03
0.025
0.02
0.015

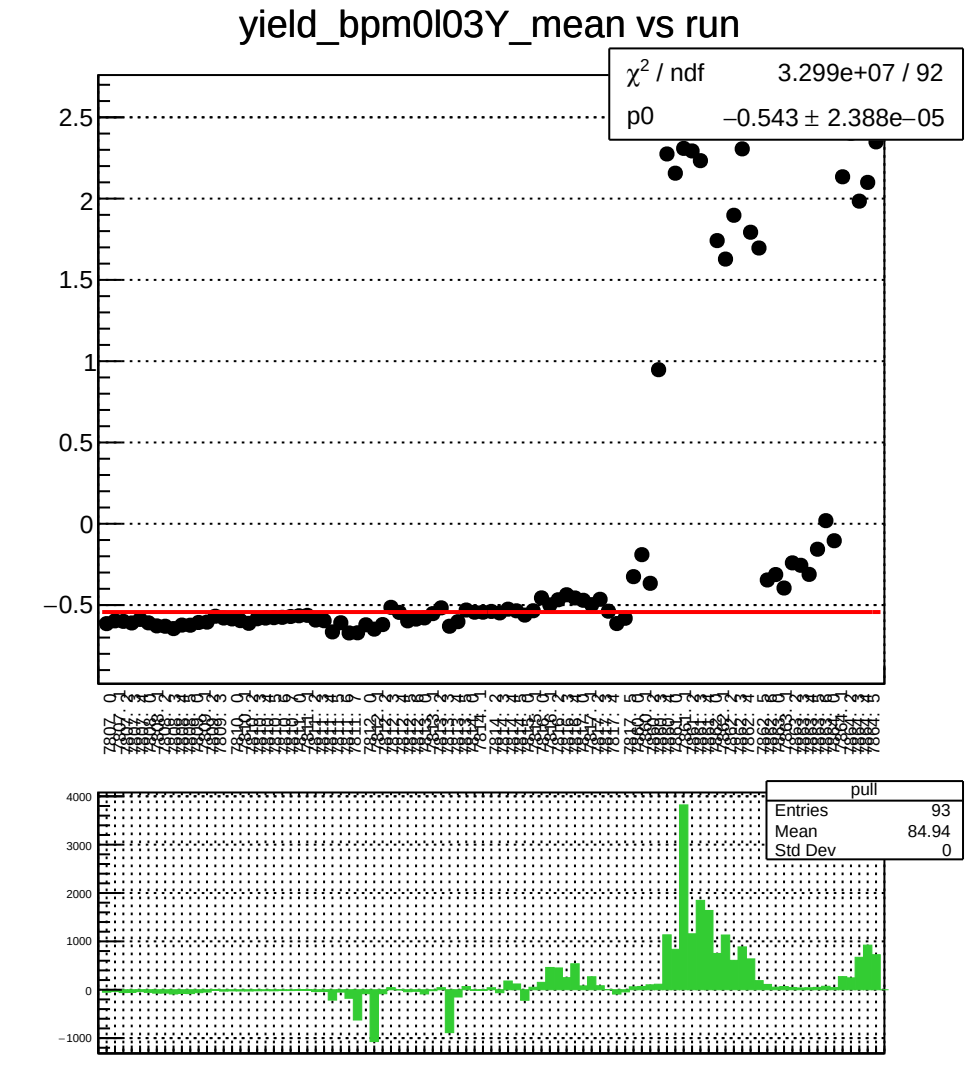

yield_bpm0l02Y_mean vs run
χ² / ndf 4.68e+07 / 92
p0 −0.8133 ± 1.297e−05
−0.7
−0.75
−0.8
−0.85
−0.9
−0.95
−1
pull
Entries 93
Mean 587.9
Std Dev 0
1000
500
0
−500
−1000
−1500
pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

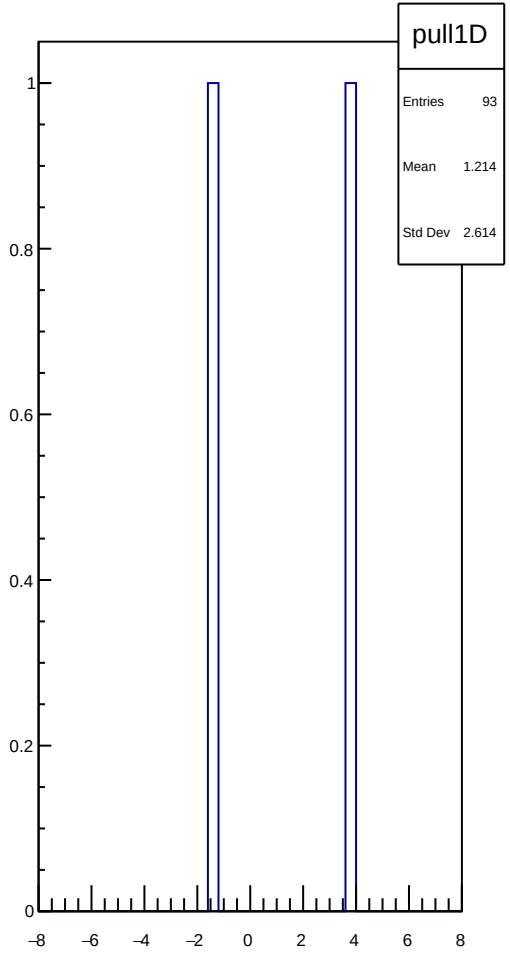

yield_bpm0l02Y_rms vs run
χ² / ndf 7.197e+04 / 92
p0 0.01223 ± 9.17e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01

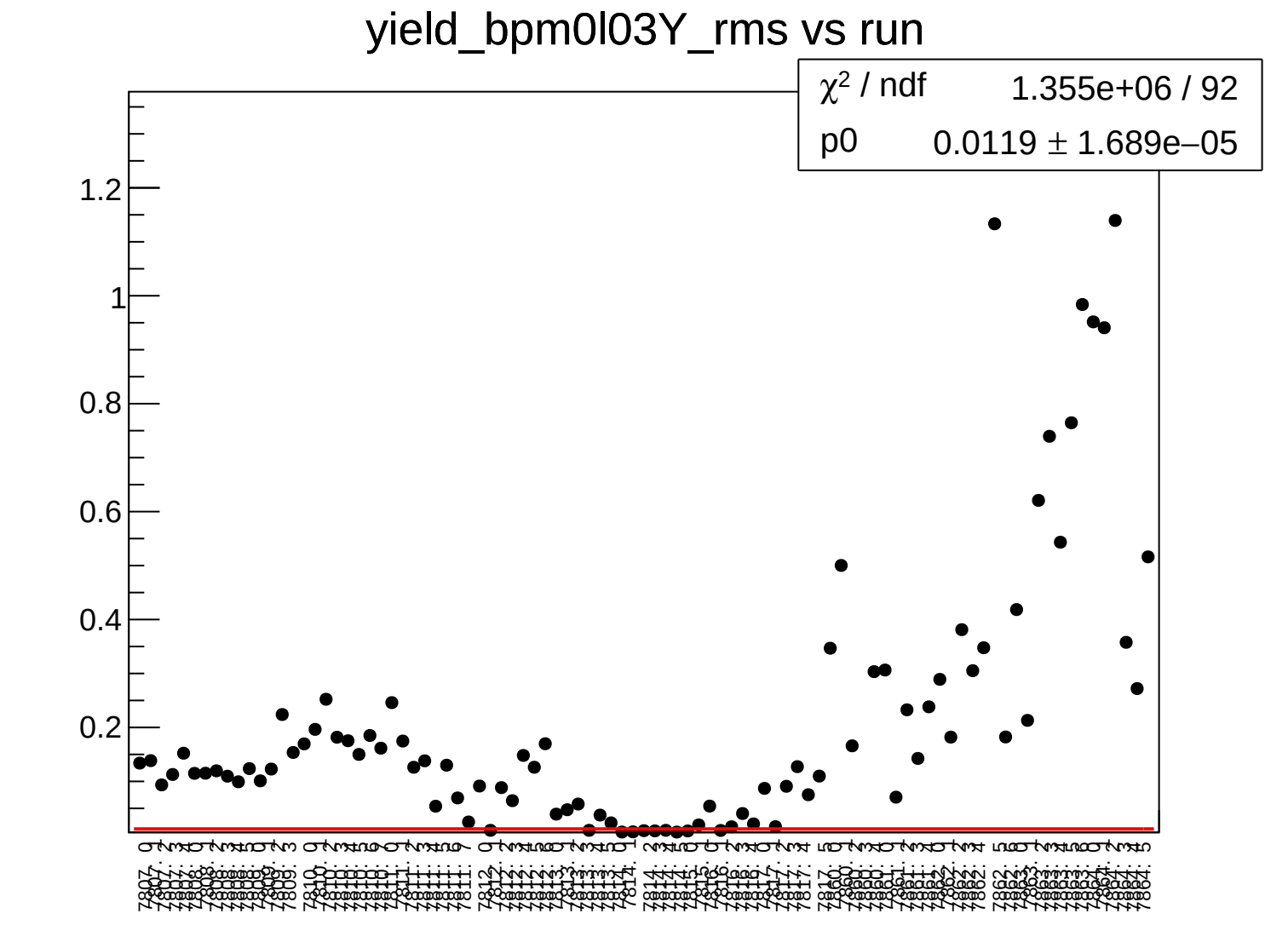

yield_bpm0l03X_mean vs run
χ² / ndf 2.383e+07 / 92
p0 −2.079 ± 2.214e−05
pull
Entries 93
Mean 85.71
Std Dev 0

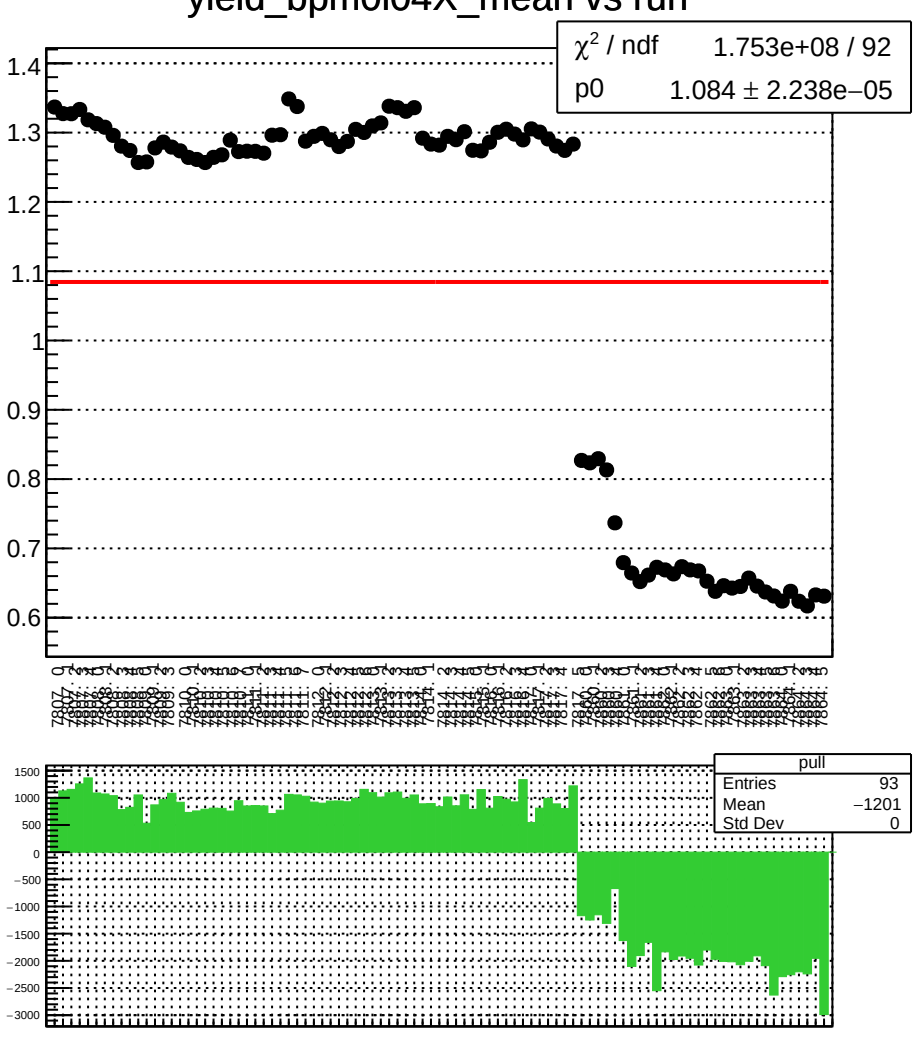

pull1D
Entries 93
Mean −1.631
Std Dev 5.45

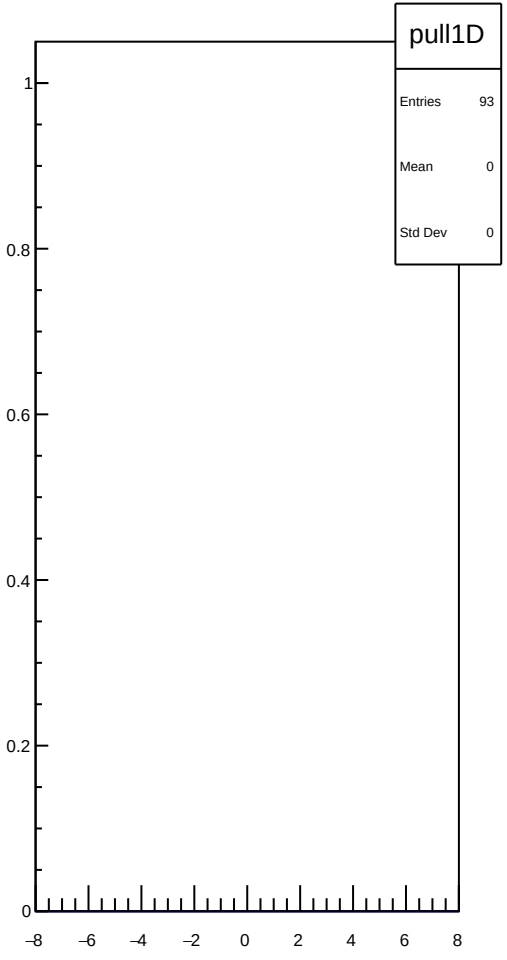

yield_bpm0l03X_rms vs run
χ² / ndf 1.391e+06 / 92
p0 0.01062 ± 1.565e−05
1.2
1
0.8
0.6
0.4
0.2

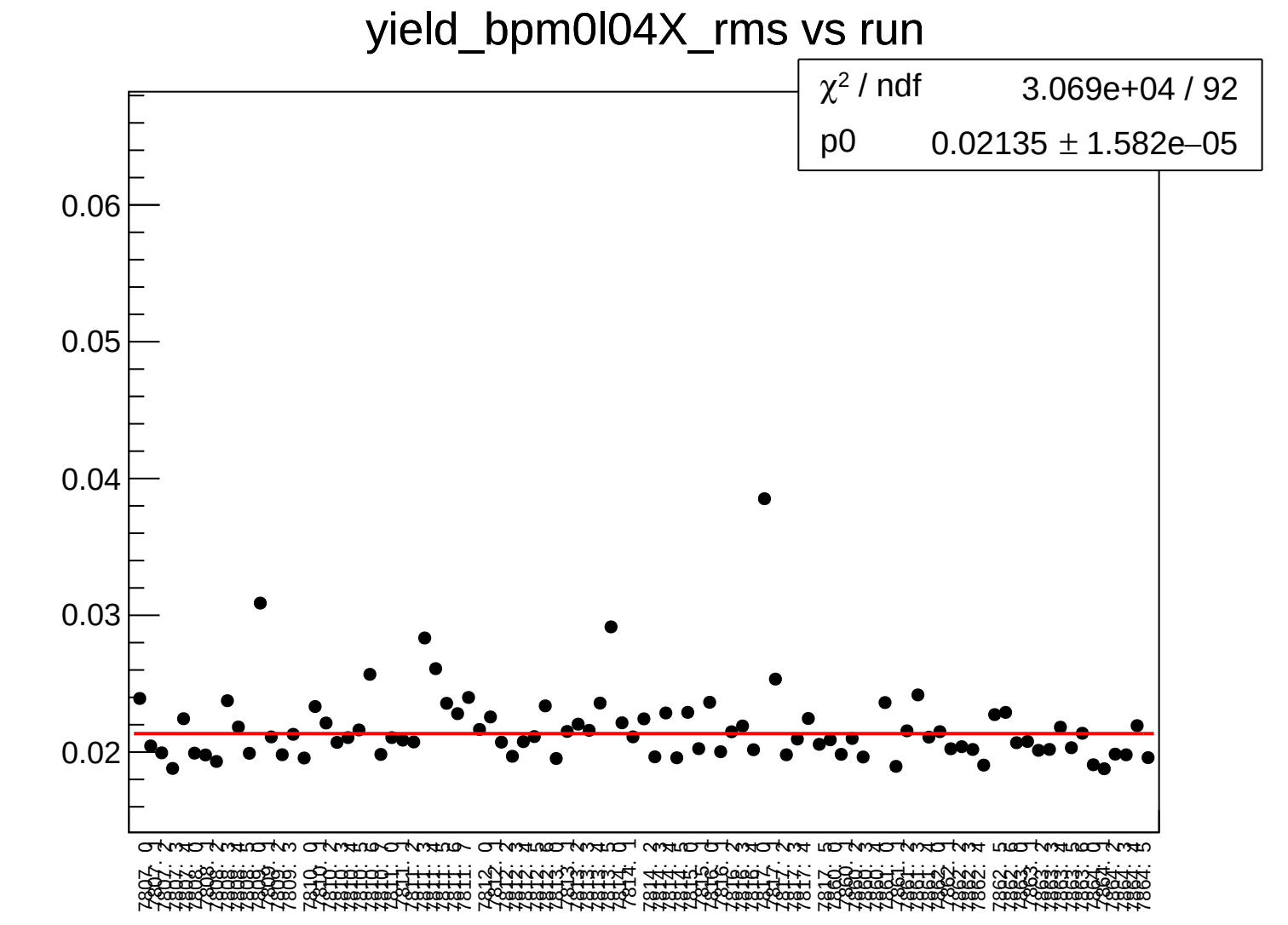

yield_bpm0l03Y_mean vs run
χ² / ndf 3.299e+07 / 92
p0 −0.543 ± 2.388e−05
2.5
2
1.5
1
0.5
0
−0.5
pull
Entries 93
Mean 84.94
Std Dev 0
4000
3000
2000
1000
0
−1000

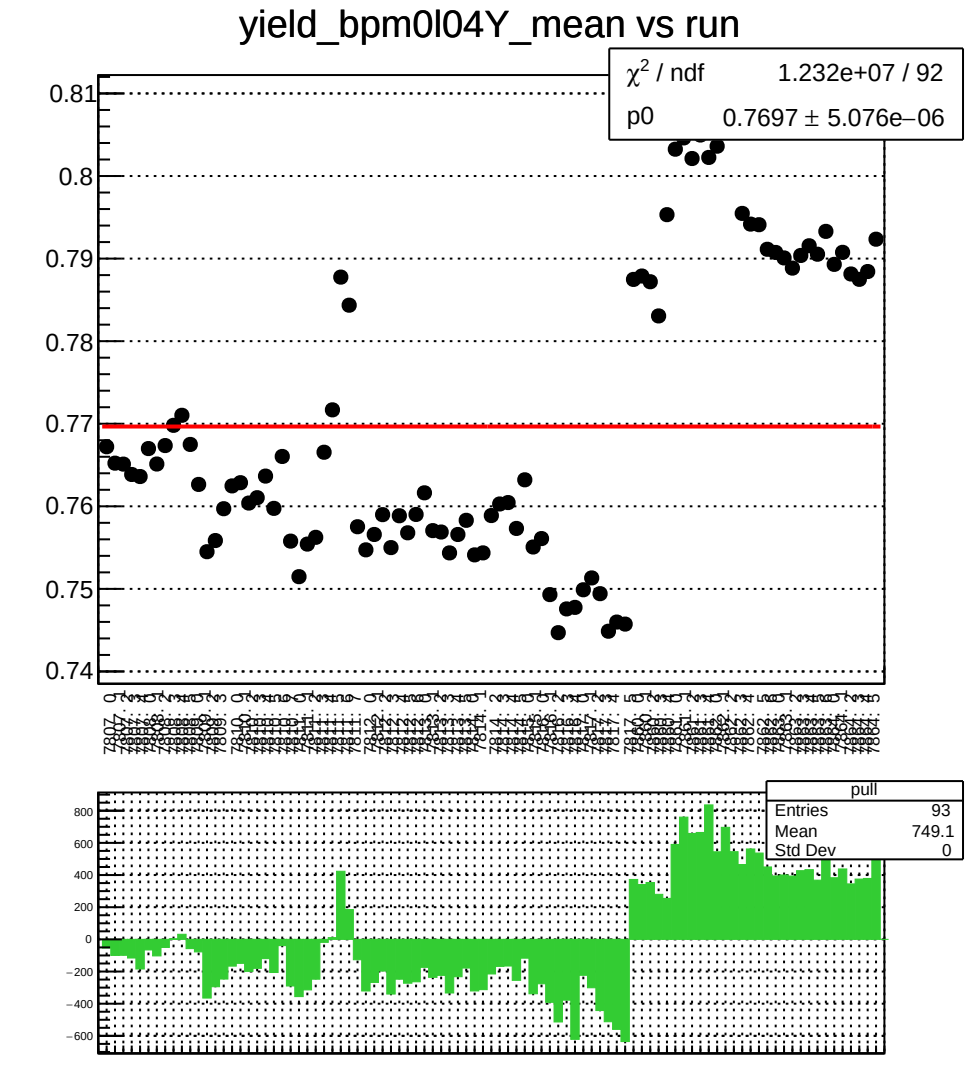

pull1D
Entries 93
Mean 1.214
Std Dev 2.614
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

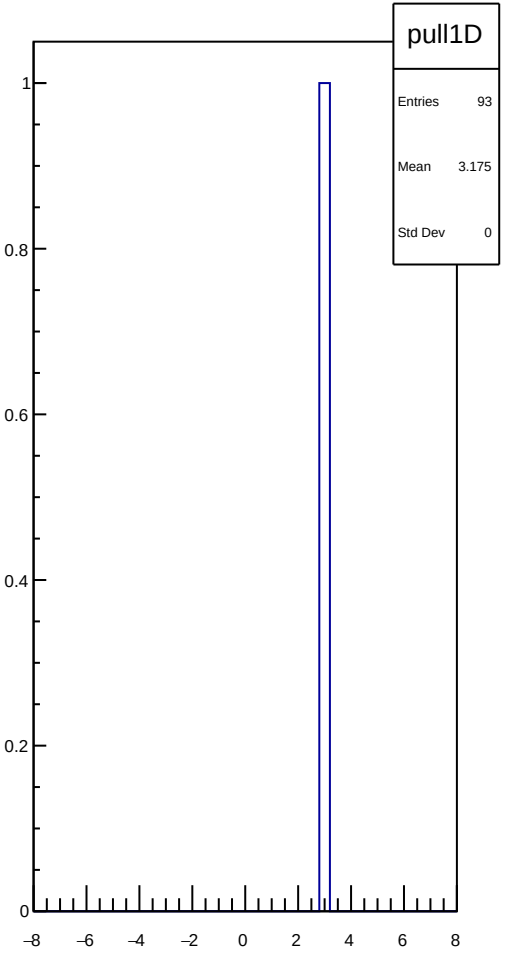

yield_bpm0l03Y_rms vs run
χ² / ndf 1.355e+06 / 92
p0 0.0119 ± 1.689e−05
1.2
1
0.8
0.6
0.4
0.2

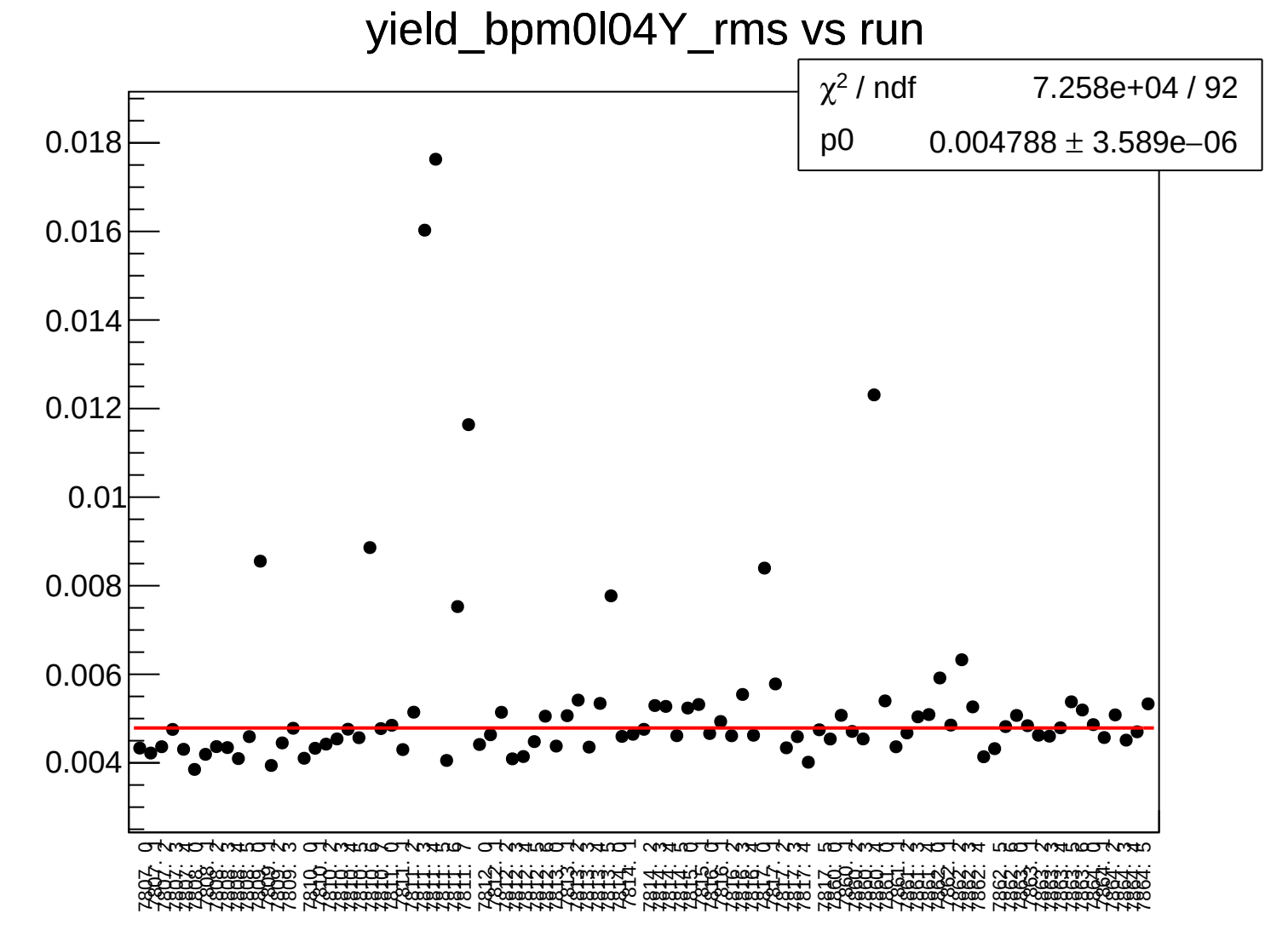

yield_bpm0l04X_mean vs run
χ² / ndf 1.753e+08 / 92
p0 1.084 ± 2.238e−05
pull
Entries 93
Mean −1201
Std Dev 0

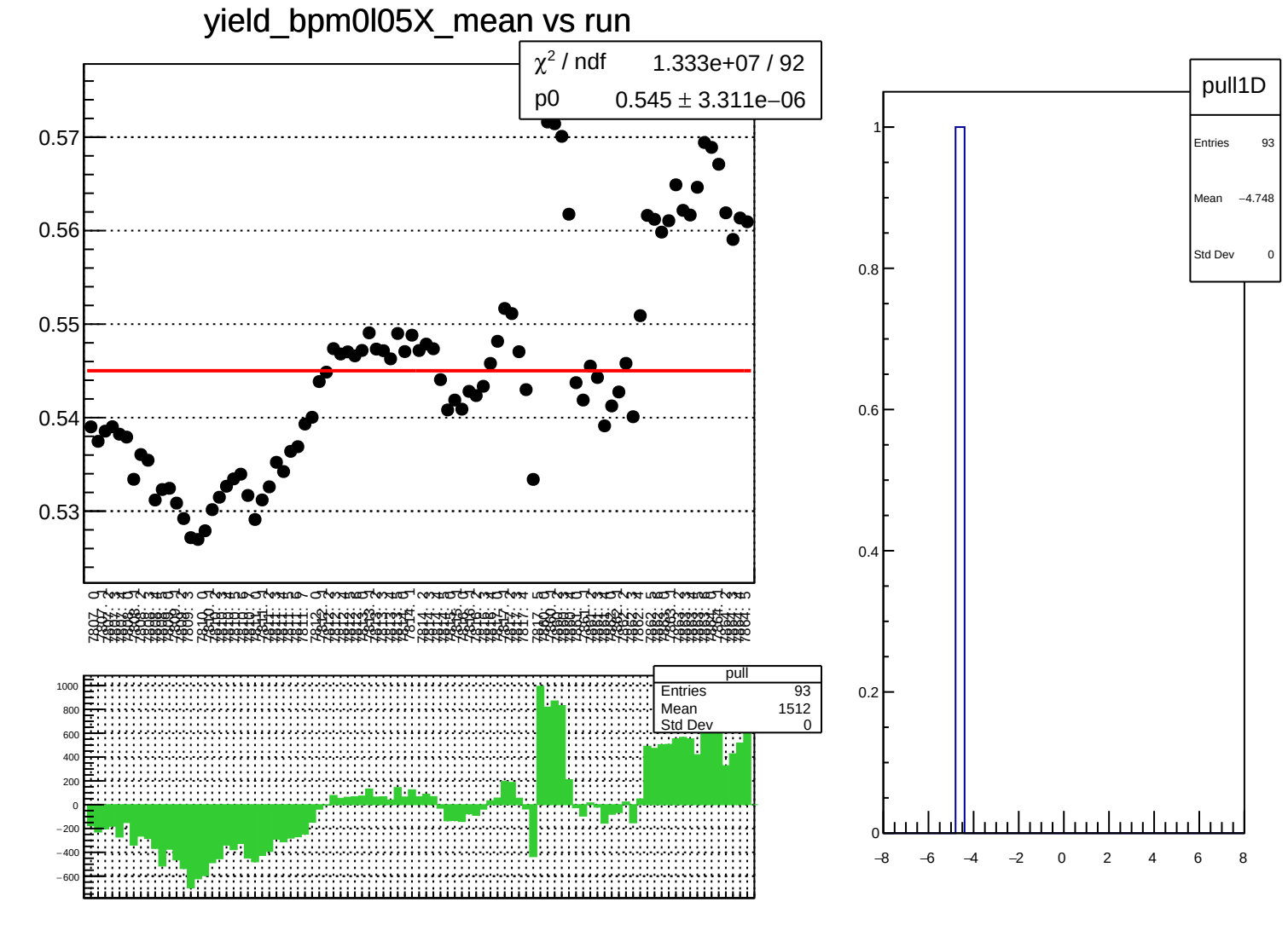

pull1D
Entries 93
Mean 0
Std Dev 0

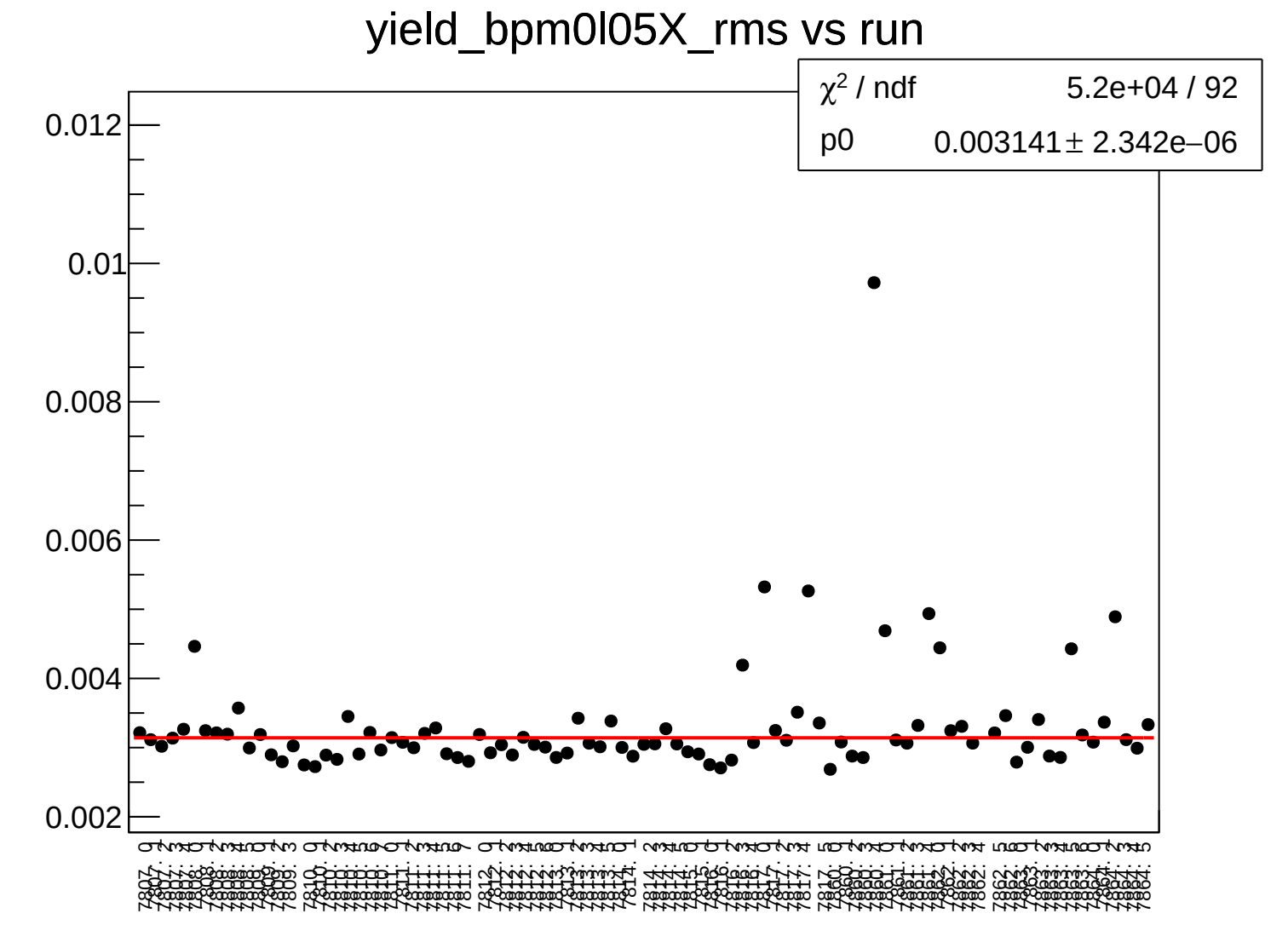

yield_bpm0l04X_rms vs run
χ² / ndf 3.069e+04 / 92
p0 0.02135 ± 1.582e–05
0.06
0.05
0.04
0.03
0.02

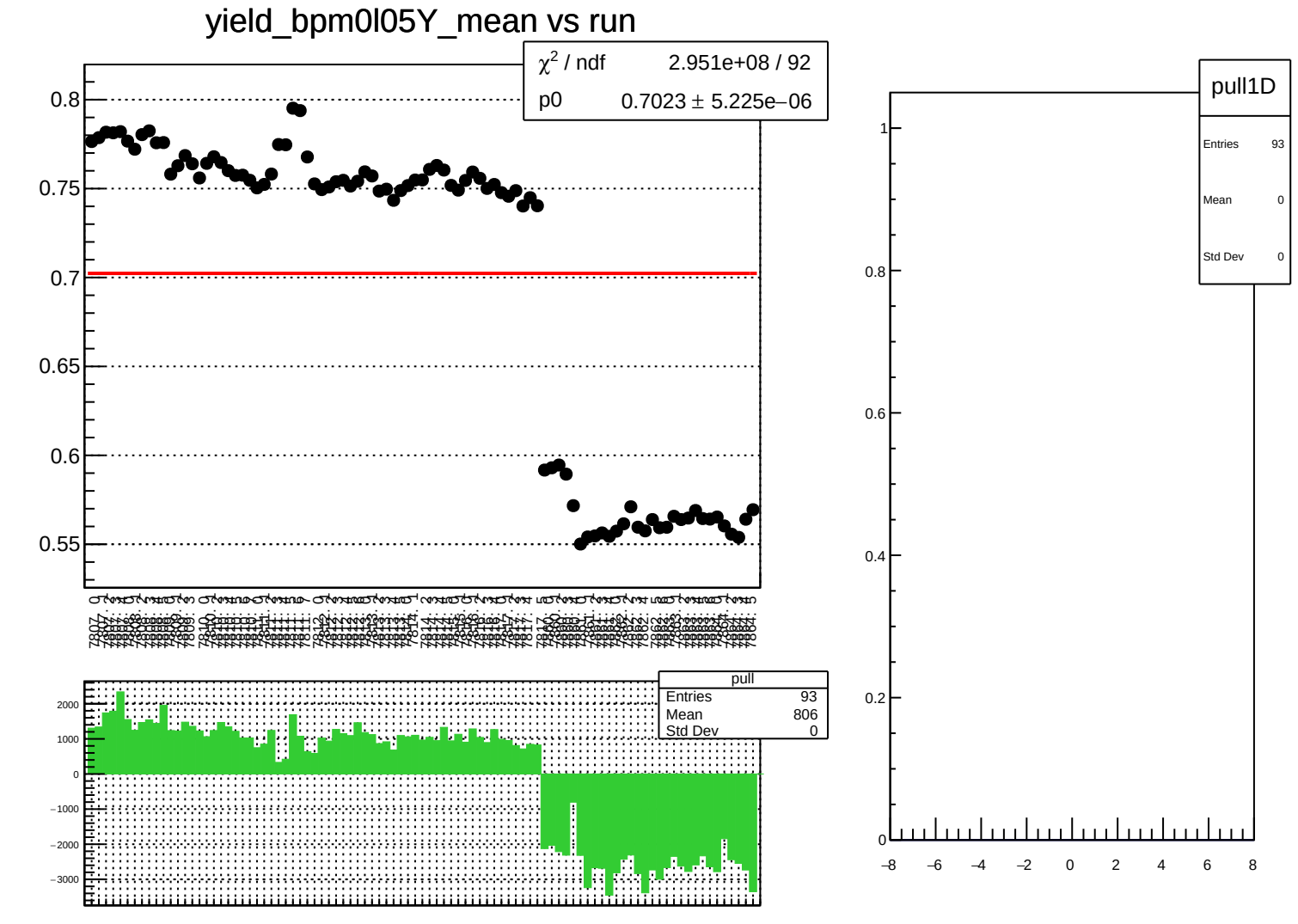

yield_bpm0l04Y_mean vs run
χ² / ndf 1.232e+07 / 92
p0 0.7697 ± 5.076e−06
0.81
0.8
0.79
0.78
0.77
0.76
0.75
0.74
pull
Entries 93
Mean 749.1
Std Dev 0
800
600
400
200
0
−200
−400
−600

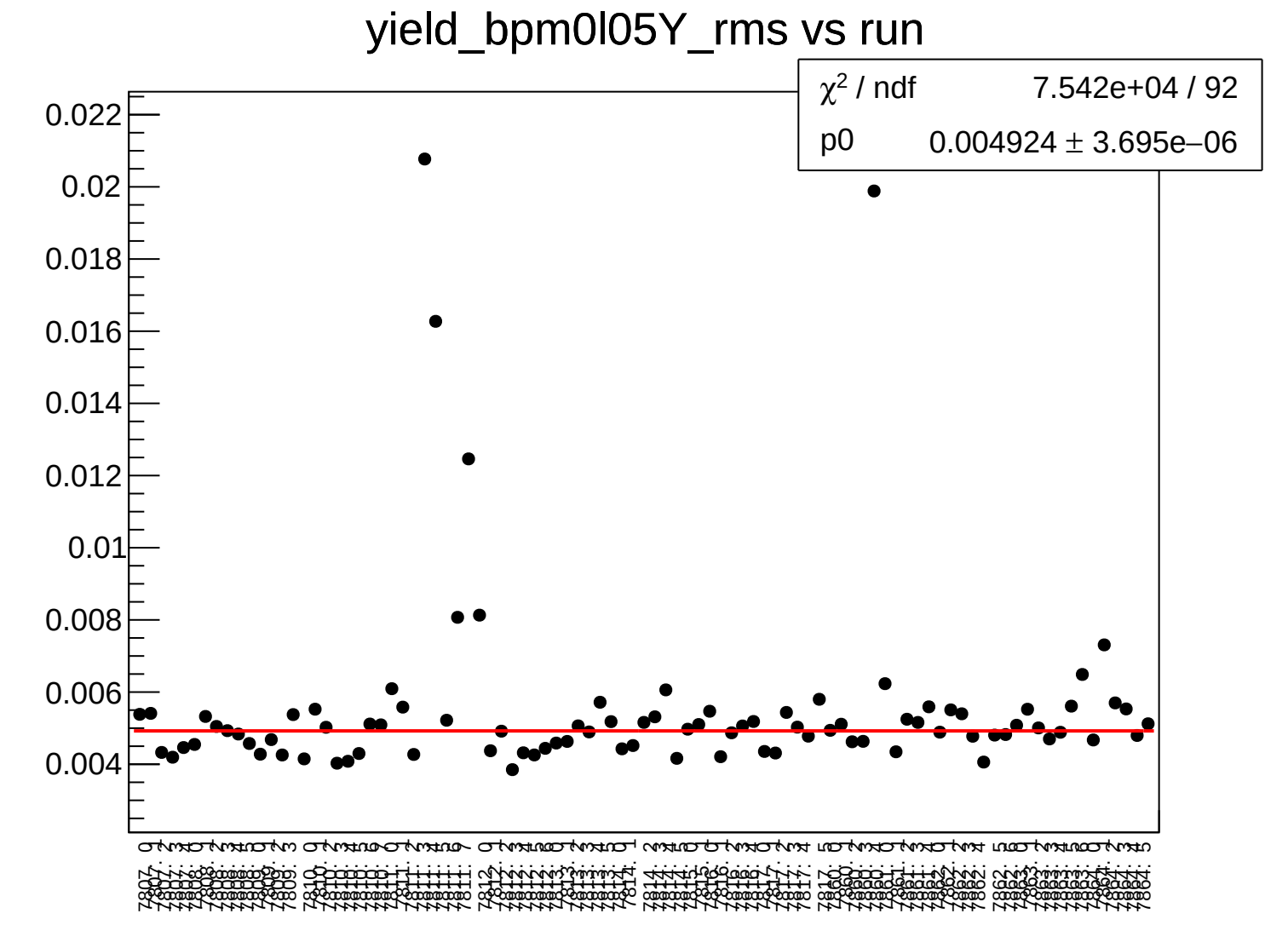

pull1D
Entries 93
Mean 3.175
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

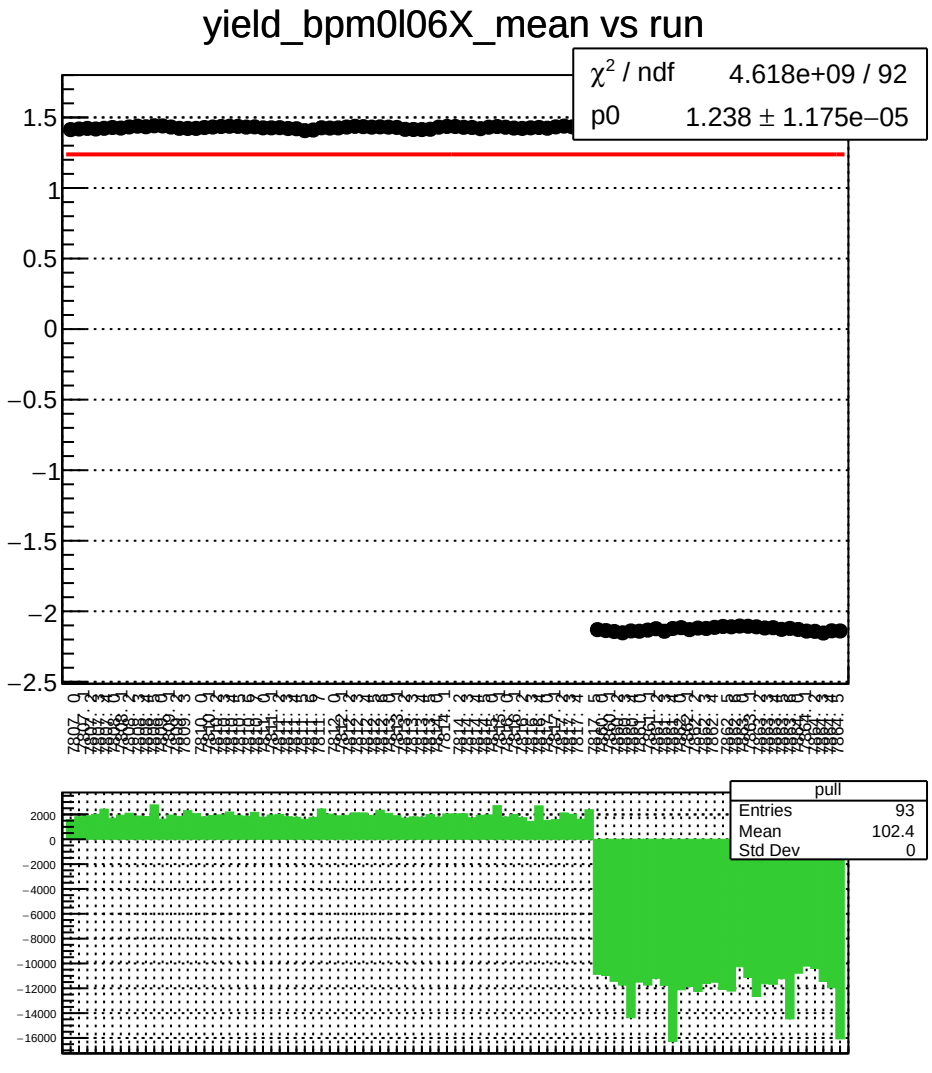

yield_bpm0l04Y_rms vs run
χ^2 / ndf 7.258e+04 / 92
p0 0.004788 ± 3.589e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

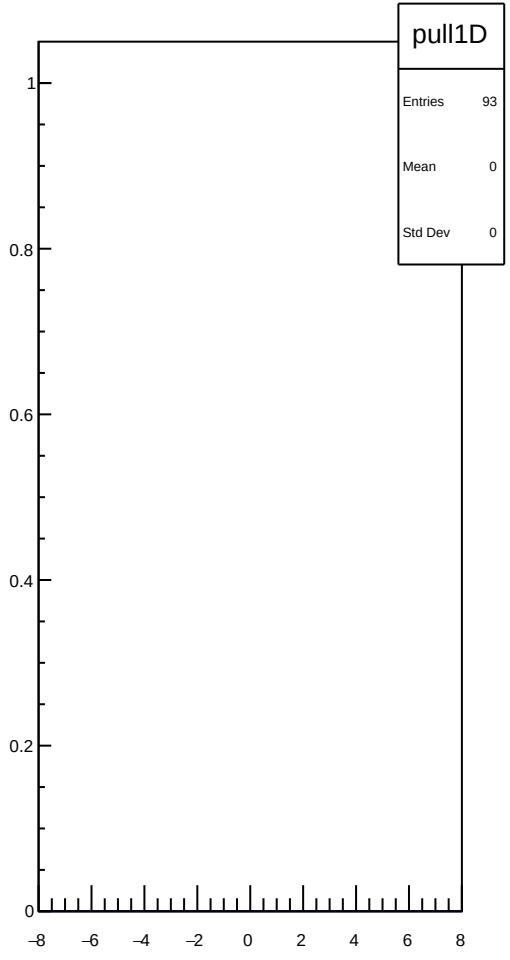

yield_bpm0l05X_mean vs run
χ² / ndf 1.333e+07 / 92
p0 0.545 ± 3.311e−06
0.57
0.56
0.55
0.54
0.53
pull
Entries 93
Mean 1512
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600
pull1D
Entries 93
Mean −4.748
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

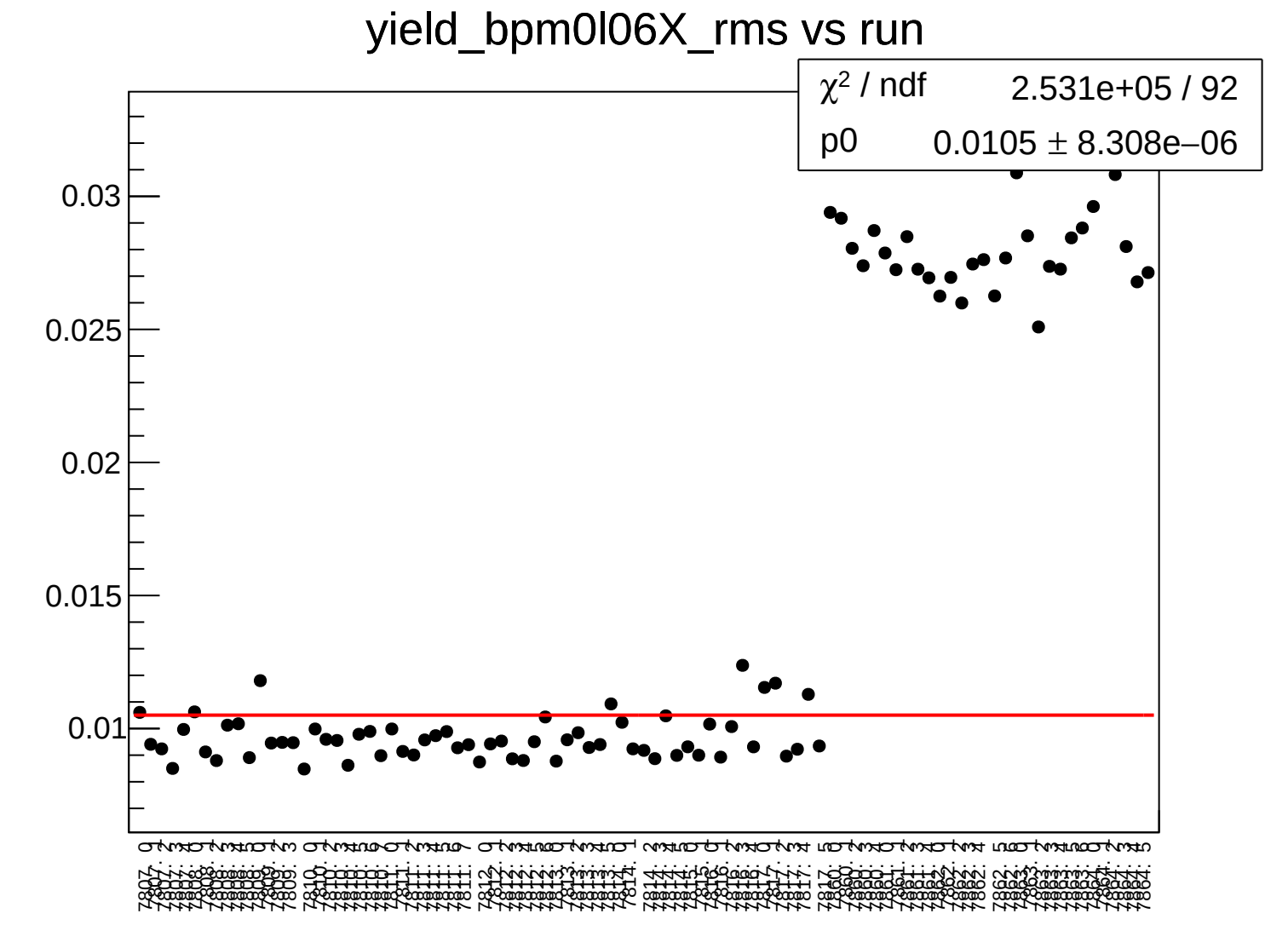

yield_bpm0l05X_rms vs run
χ² / ndf 5.2e+04 / 92
p0 0.003141 ± 2.342e−06
0.012
0.01
0.008
0.006
0.004
0.002

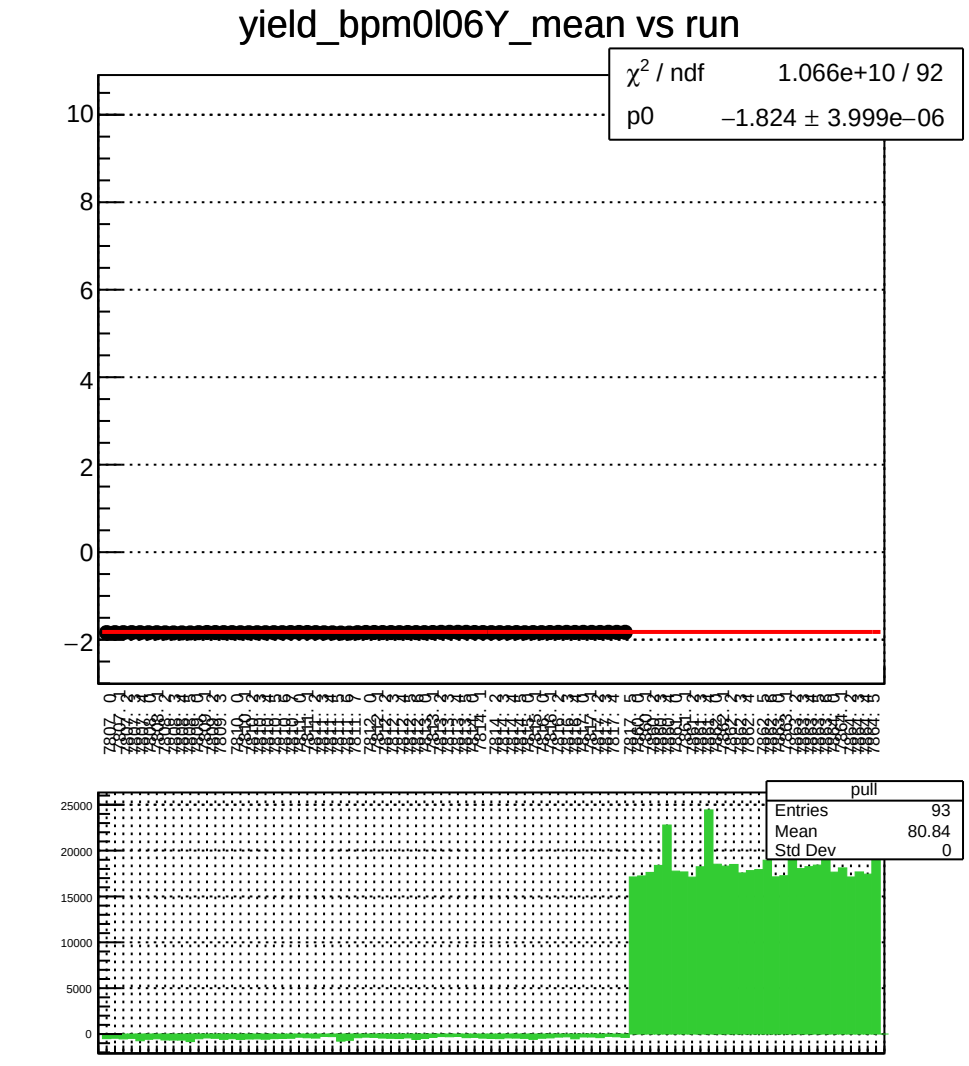

yield_bpm0l05Y_mean vs run
χ² / ndf 2.951e+08 / 92
p0 0.7023 ± 5.225e−06
0.8
0.75
0.7
0.65
0.6
0.55
pull
Entries 93
Mean 806
Std Dev 0
2000
1000
0
−1000
−2000
−3000
pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

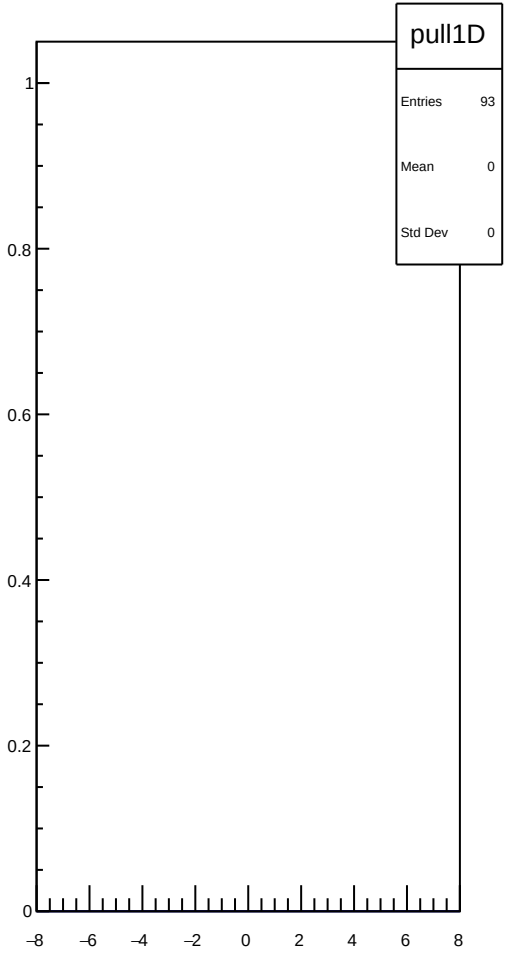

yield_bpm0l05Y_rms vs run
χ^2 / ndf 7.542e+04 / 92
p0 0.004924 ± 3.695e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

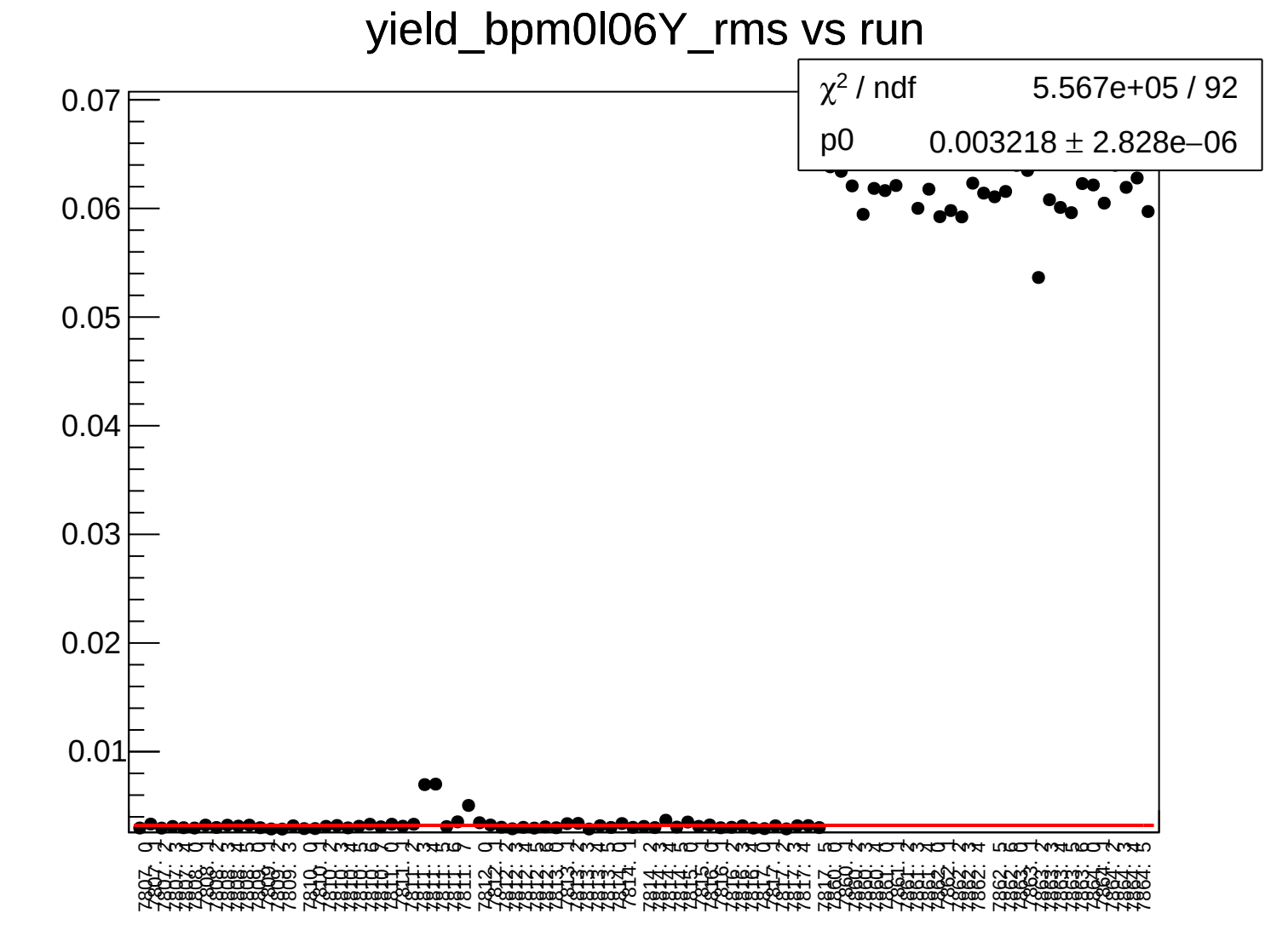

yield_bpm0l06X_mean vs run
χ² / ndf 4.618e+09 / 92
p0 1.238 ± 1.175e−05
pull
Entries 93
Mean 102.4
Std Dev 0

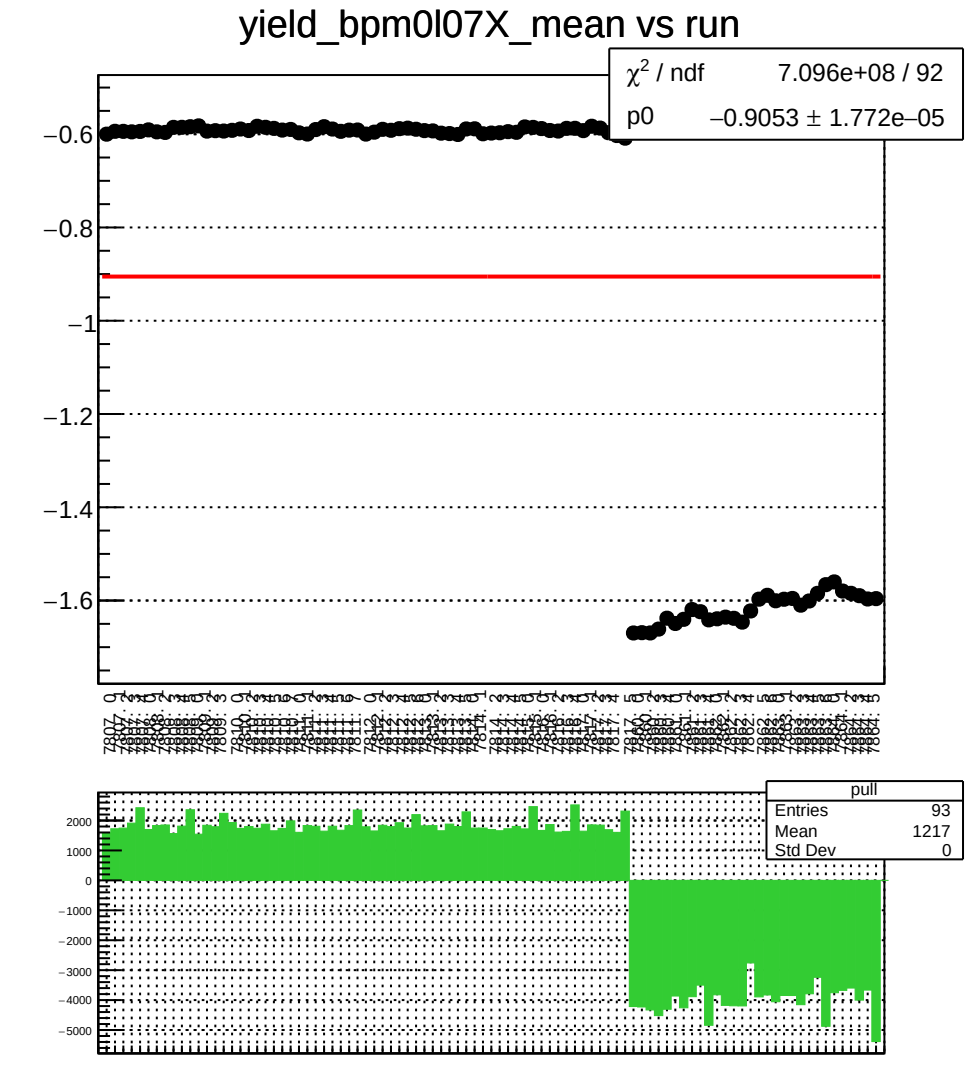

pull1D
Entries 93
Mean 0
Std Dev 0

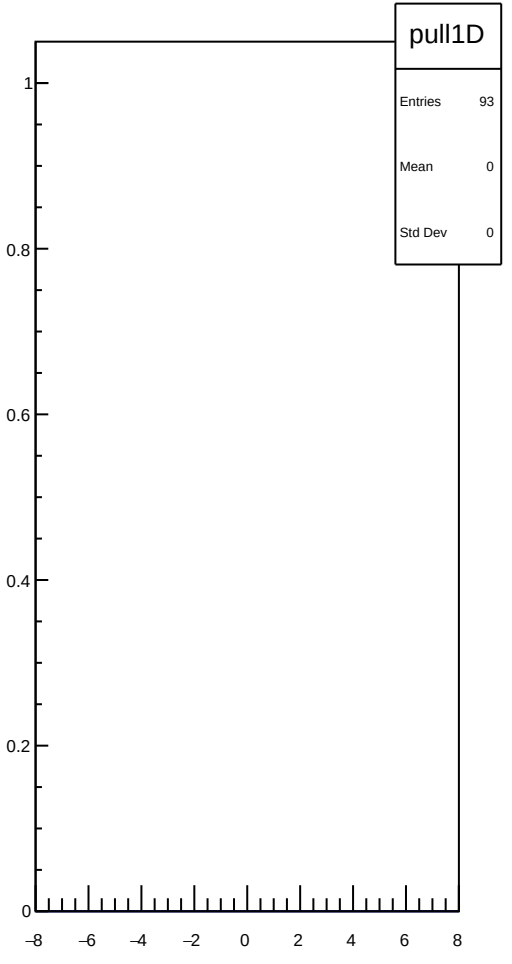

yield_bpm0l06X_rms vs run
χ² / ndf 2.531e+05 / 92
p0 0.0105 ± 8.308e−06
0.03
0.025
0.02
0.015
0.01


yield_bpm0l06Y_mean vs run
χ² / ndf 1.066e+10 / 92
p0 −1.824 ± 3.999e−06
pull
Entries 93
Mean 80.84
Std Dev 0

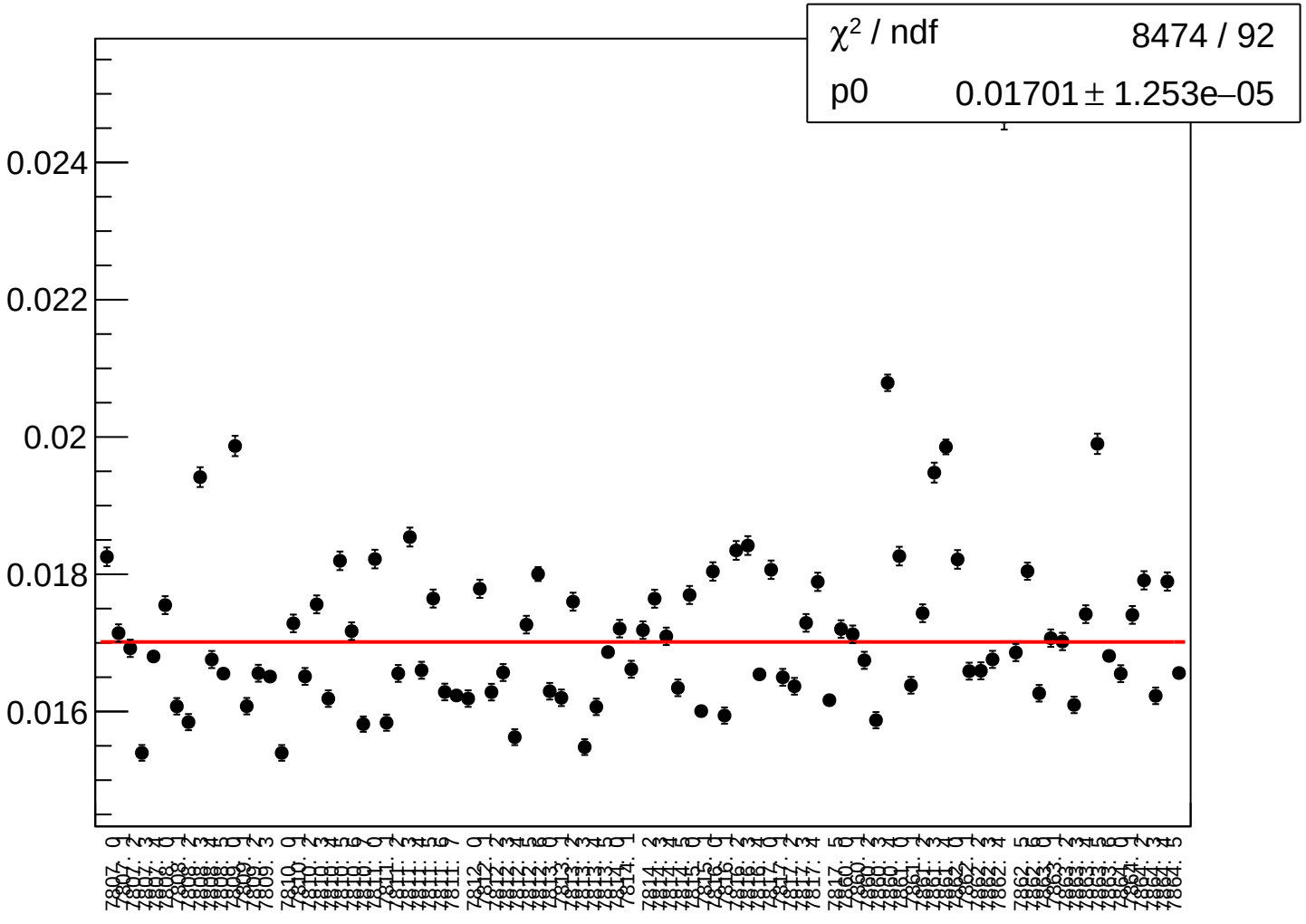

pull1D
Entries 93
Mean 0
Std Dev 0

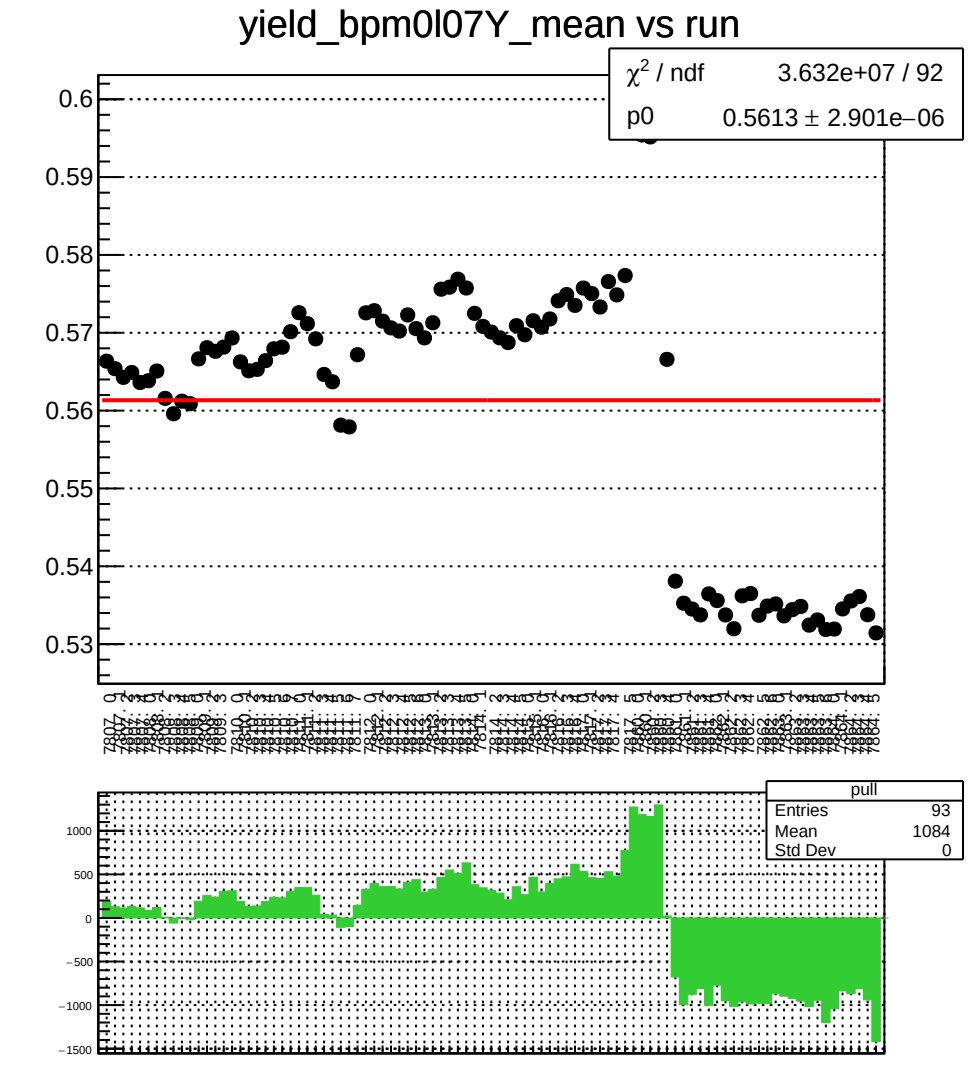

yield_bpm0l06Y_rms vs run
χ² / ndf 5.567e+05 / 92
p0 0.003218 ± 2.828e−06
0.07
0.06
0.05
0.04
0.03
0.02
0.01

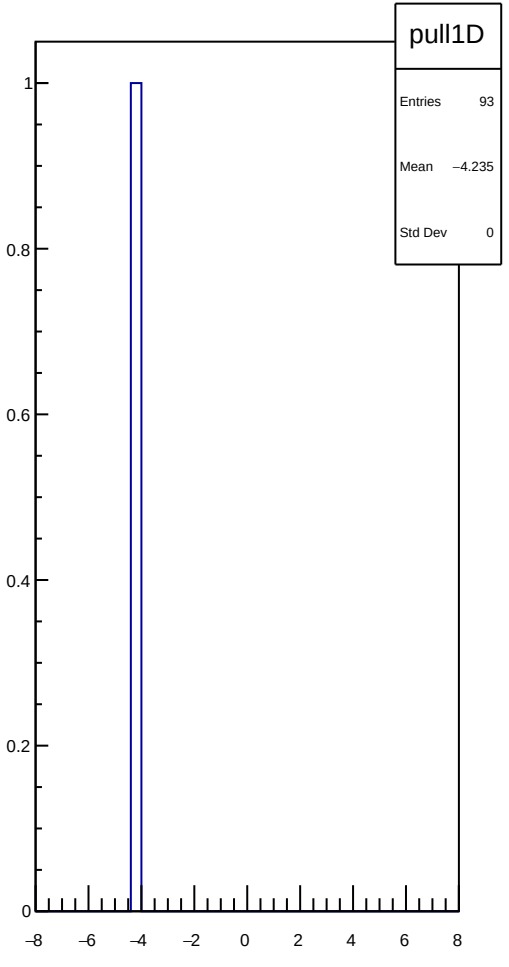

yield_bpm0l07X_mean vs run
χ² / ndf 7.096e+08 / 92
p0 −0.9053 ± 1.772e−05
−0.6
−0.8
−1
−1.2
−1.4
−1.6
pull
Entries 93
Mean 1217
Std Dev 0
2000
1000
0
−1000
−2000
−3000
−4000
−5000

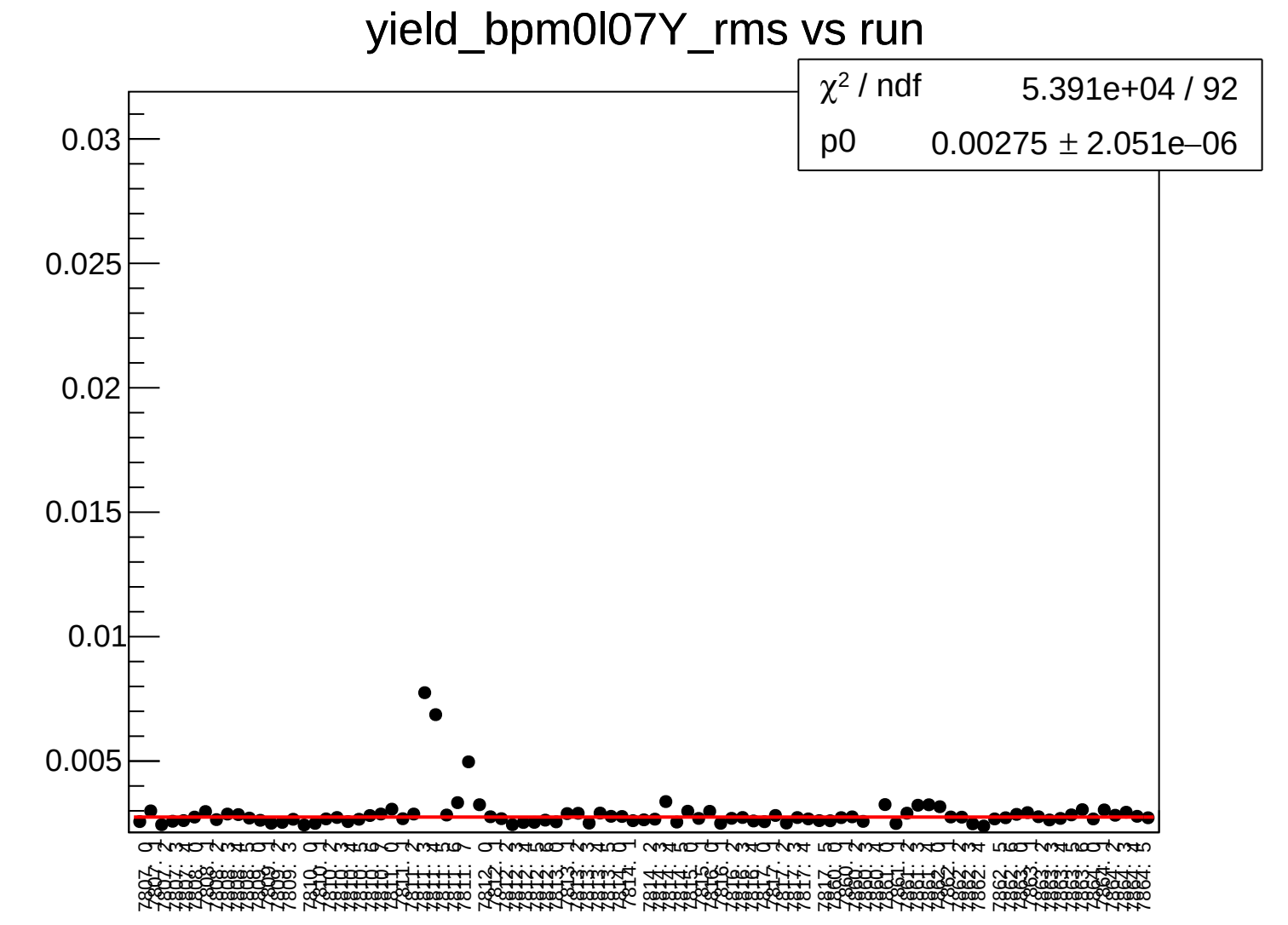

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

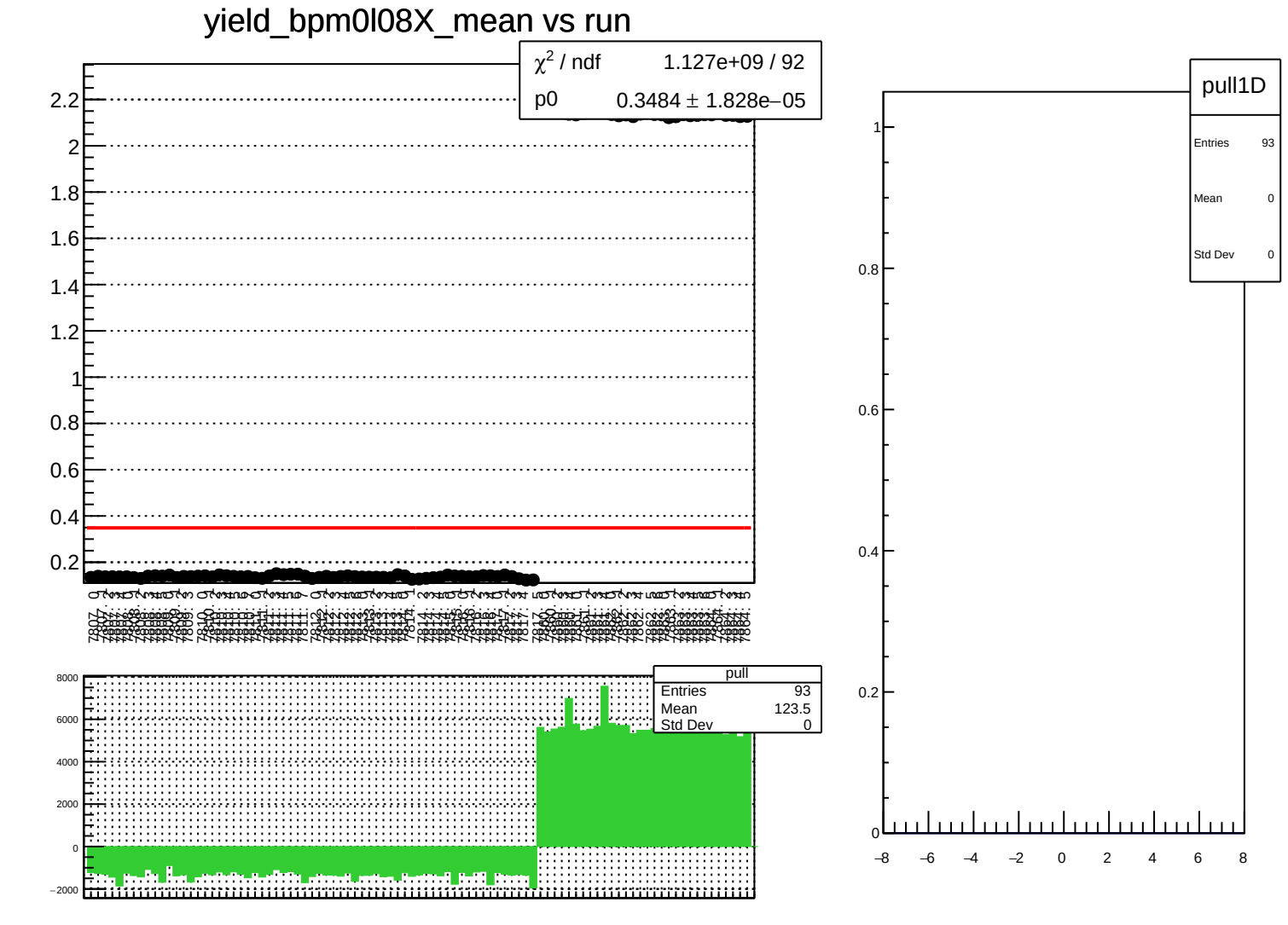
yield_bpm0l07X_rms vs run

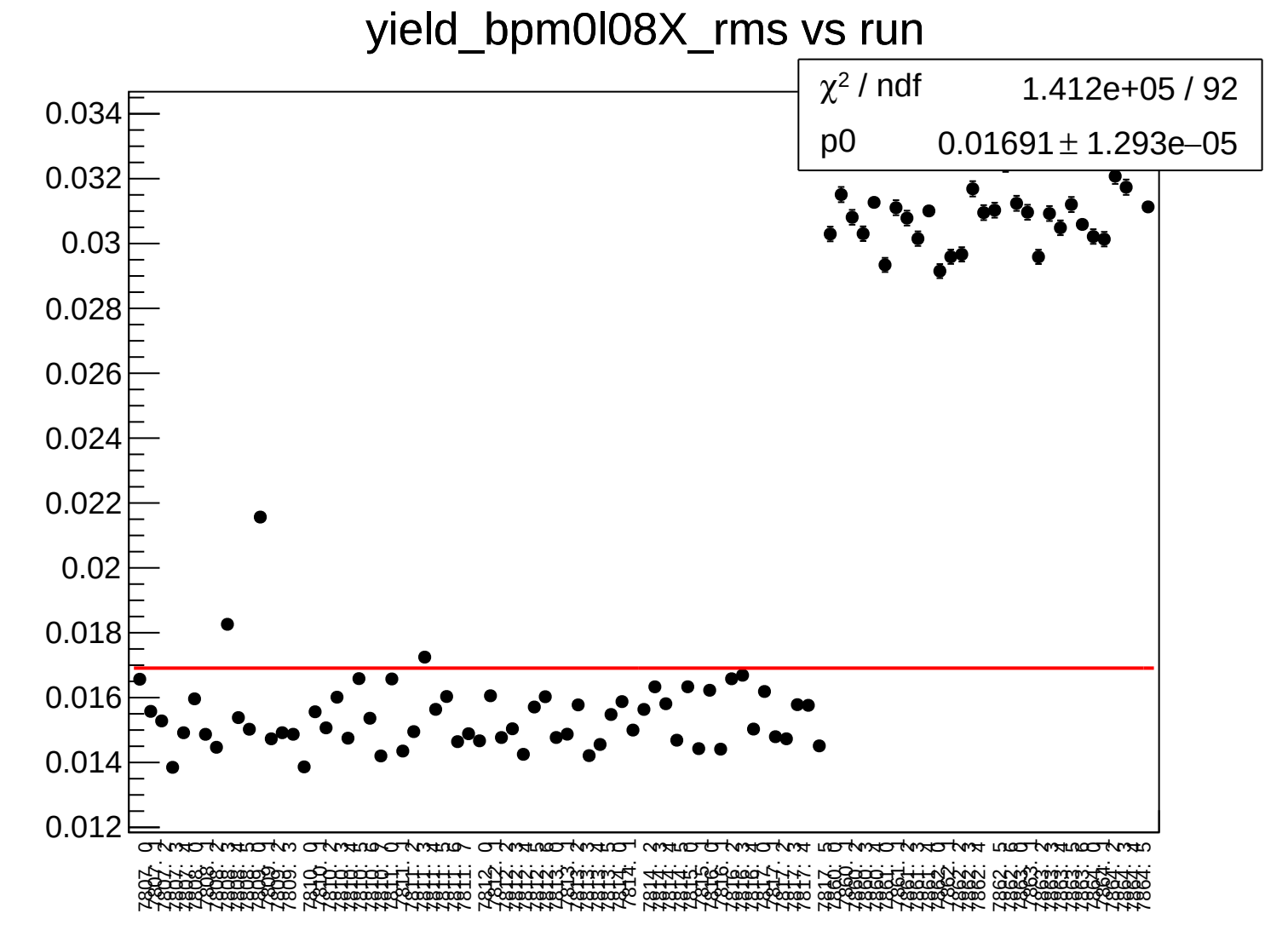


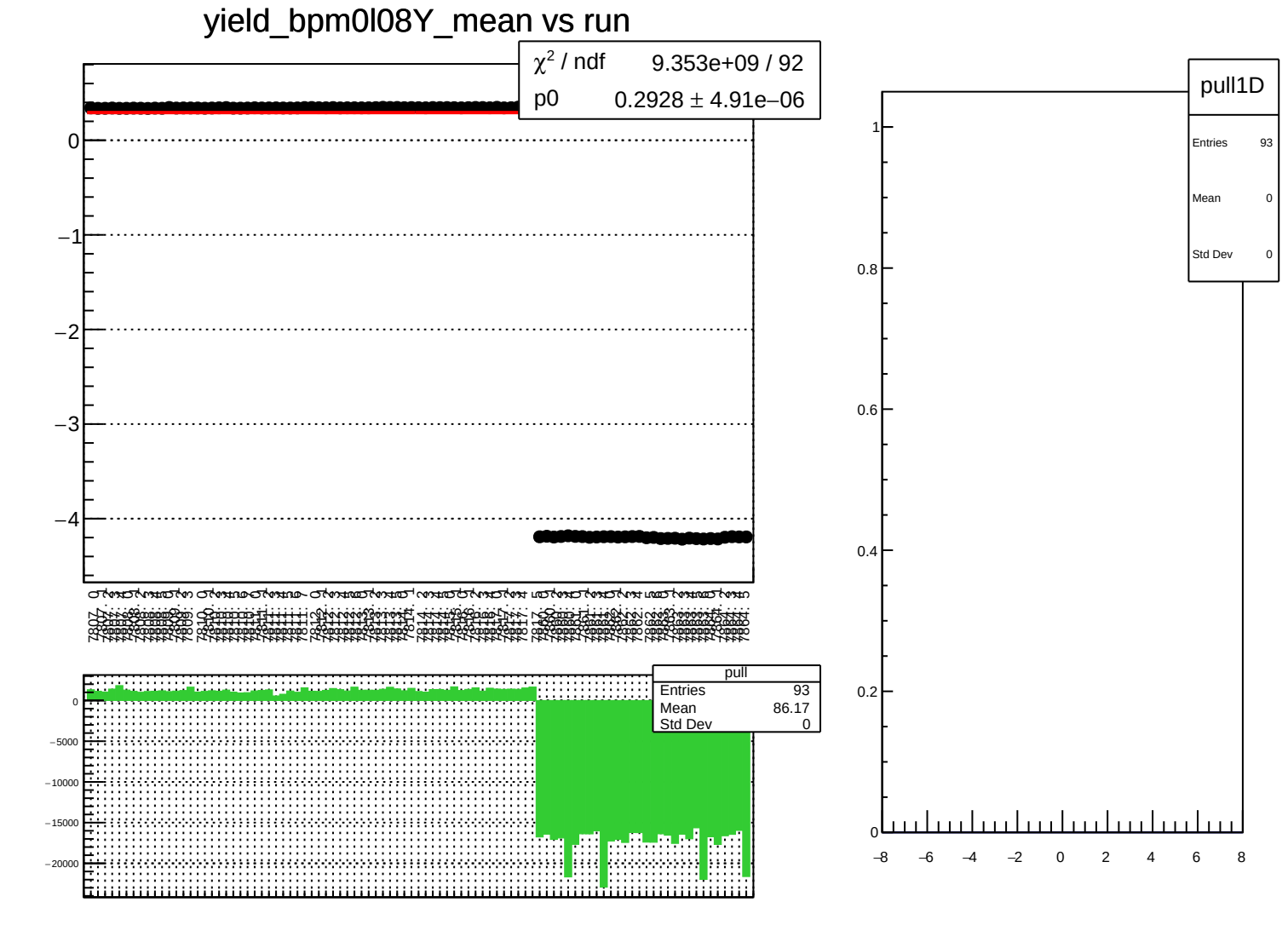

yield_bpm0l07Y_mean vs run
χ² / ndf 3.632e+07 / 92
p0 0.5613 ± 2.901e−06
0.6
0.59
0.58
0.57
0.56
0.55
0.54
0.53
pull
Entries 93
Mean 1084
Std Dev 0
1000
500
0
−500
−1000
−1500

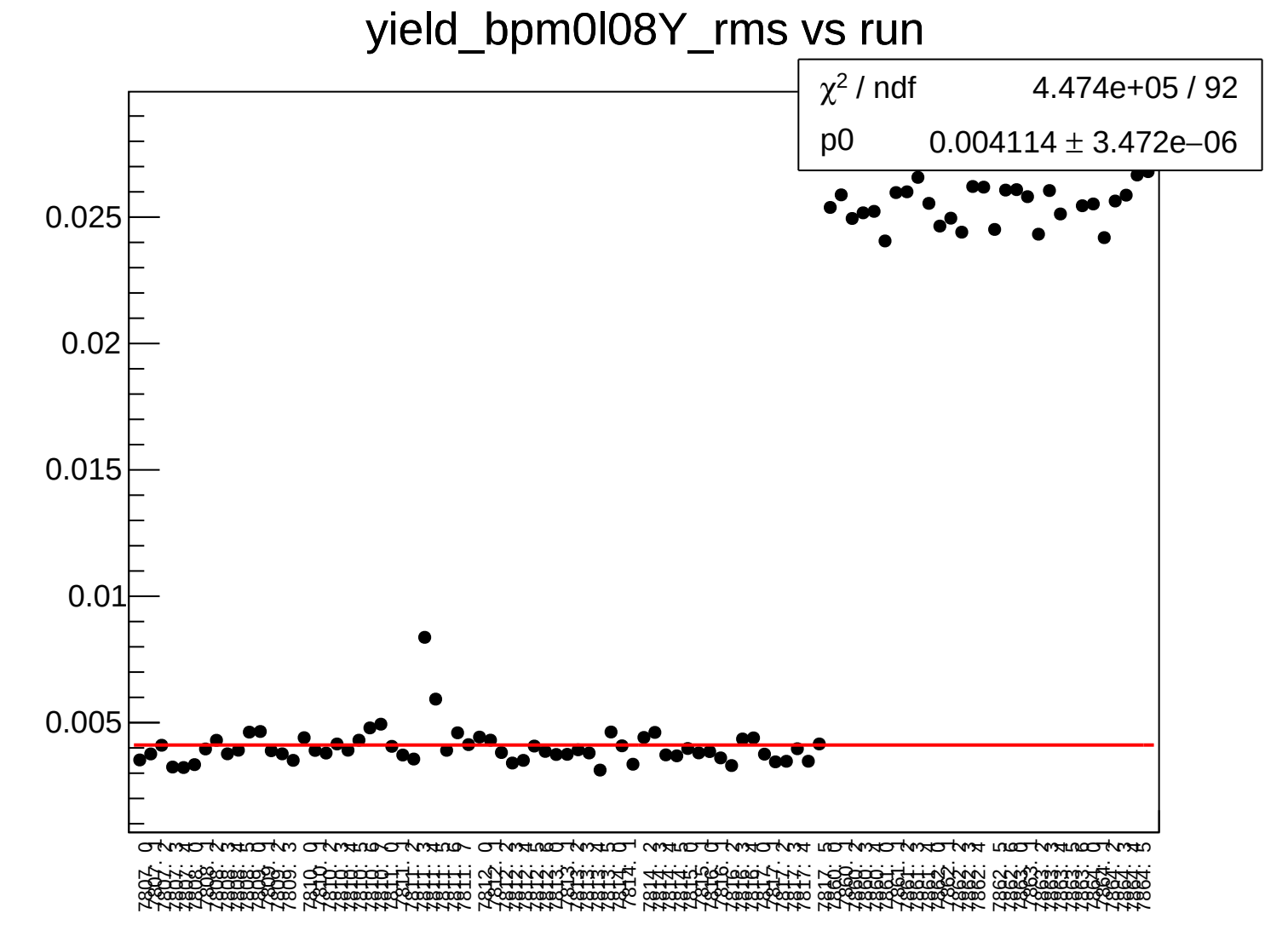

pull1D
Entries 93
Mean −4.235
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

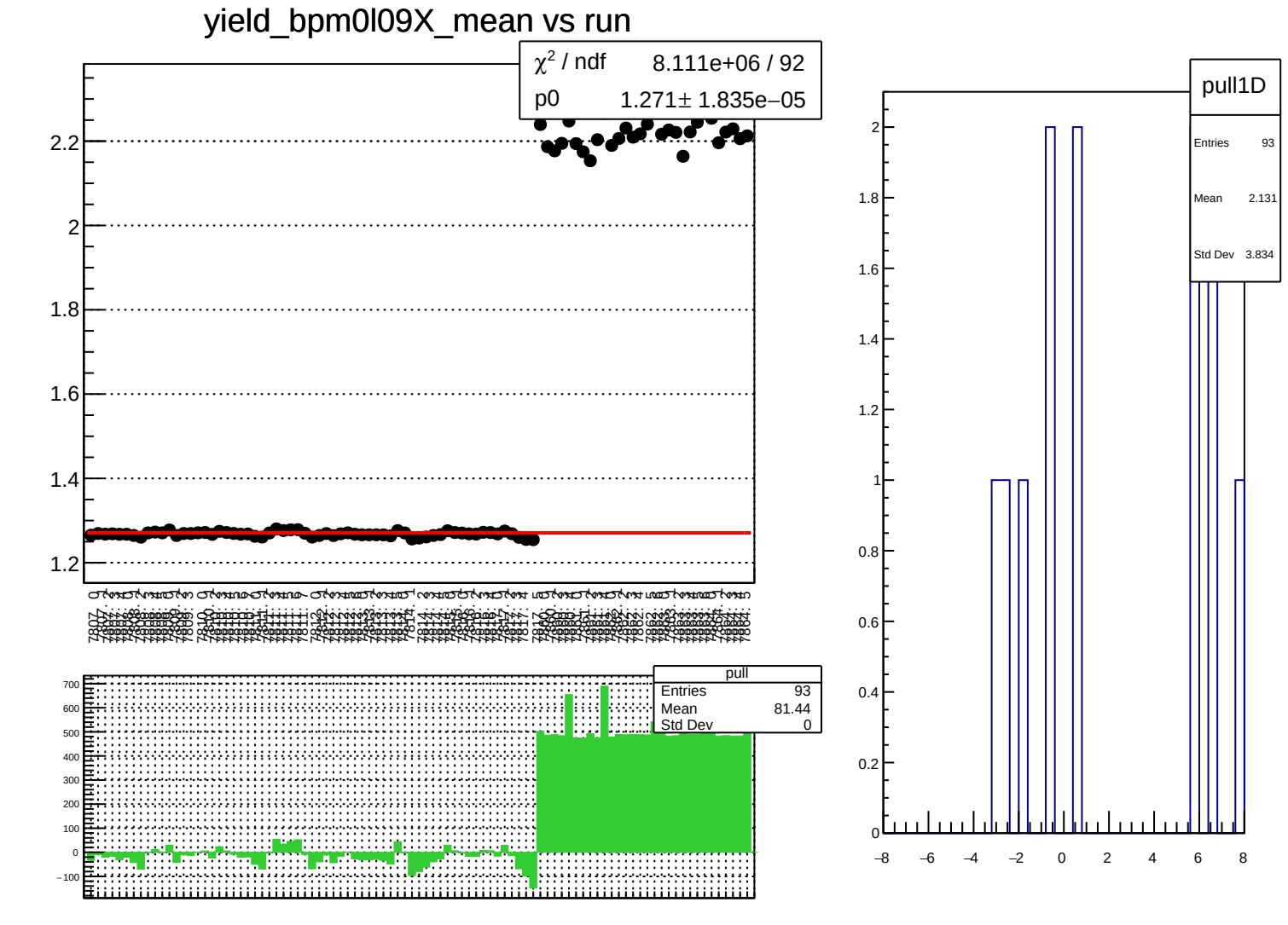

yield_bpm0l07Y_rms vs run
χ² / ndf 5.391e+04 / 92
p0 0.00275 ± 2.051e–06
0.03
0.025
0.02
0.015
0.01
0.005

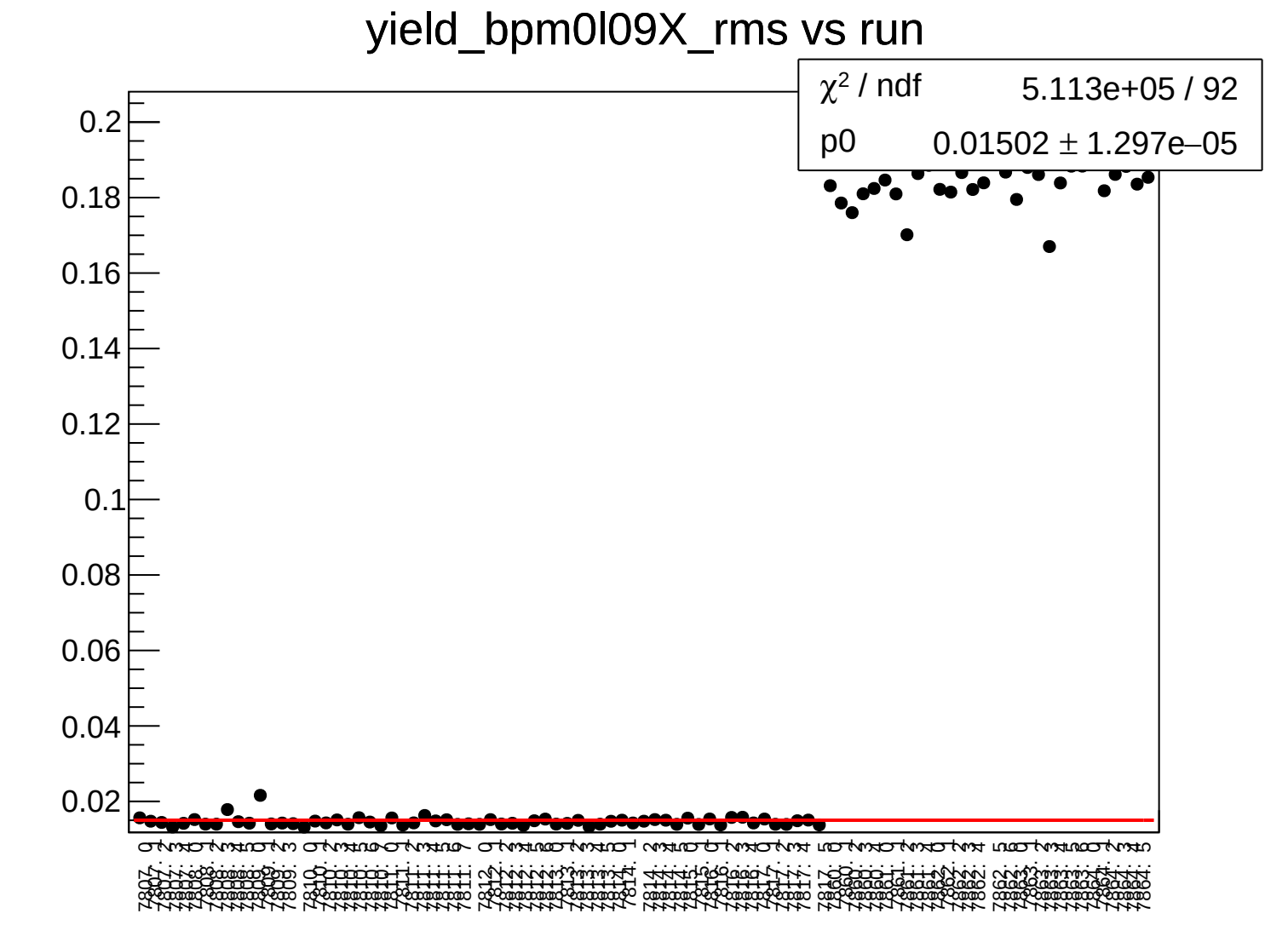

yield_bpm0l08X_mean vs run
χ² / ndf 1.127e+09 / 92
p0 0.3484 ± 1.828e−05
pull
Entries 93
Mean 123.5
Std Dev 0
pull1D
Entries 93
Mean 0
Std Dev 0

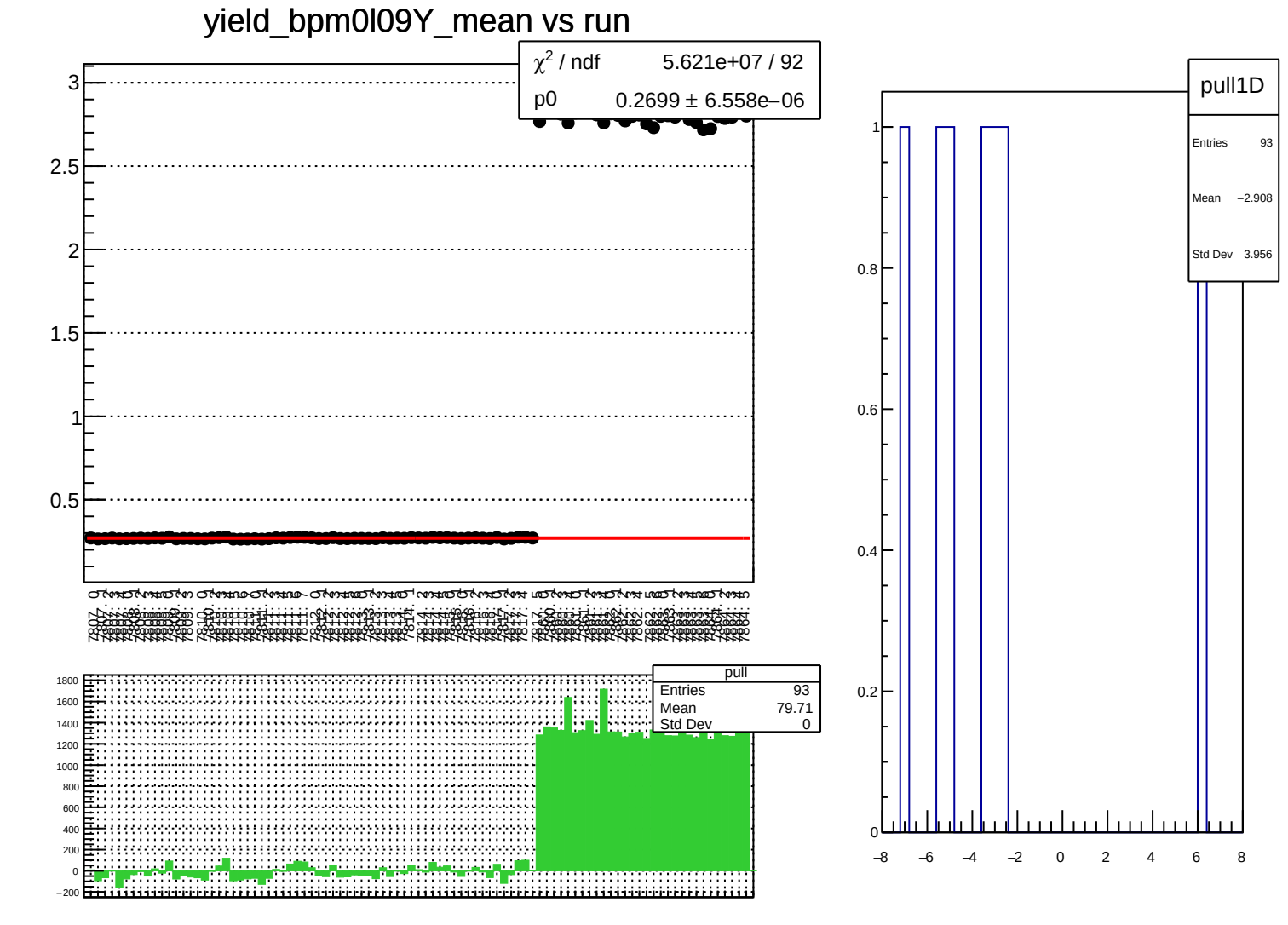

yield_bpm0l08X_rms vs run
χ^2 / ndf 1.412e+05 / 92
p0 0.01691 ± 1.293e−05
0.034
0.032
0.03
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012

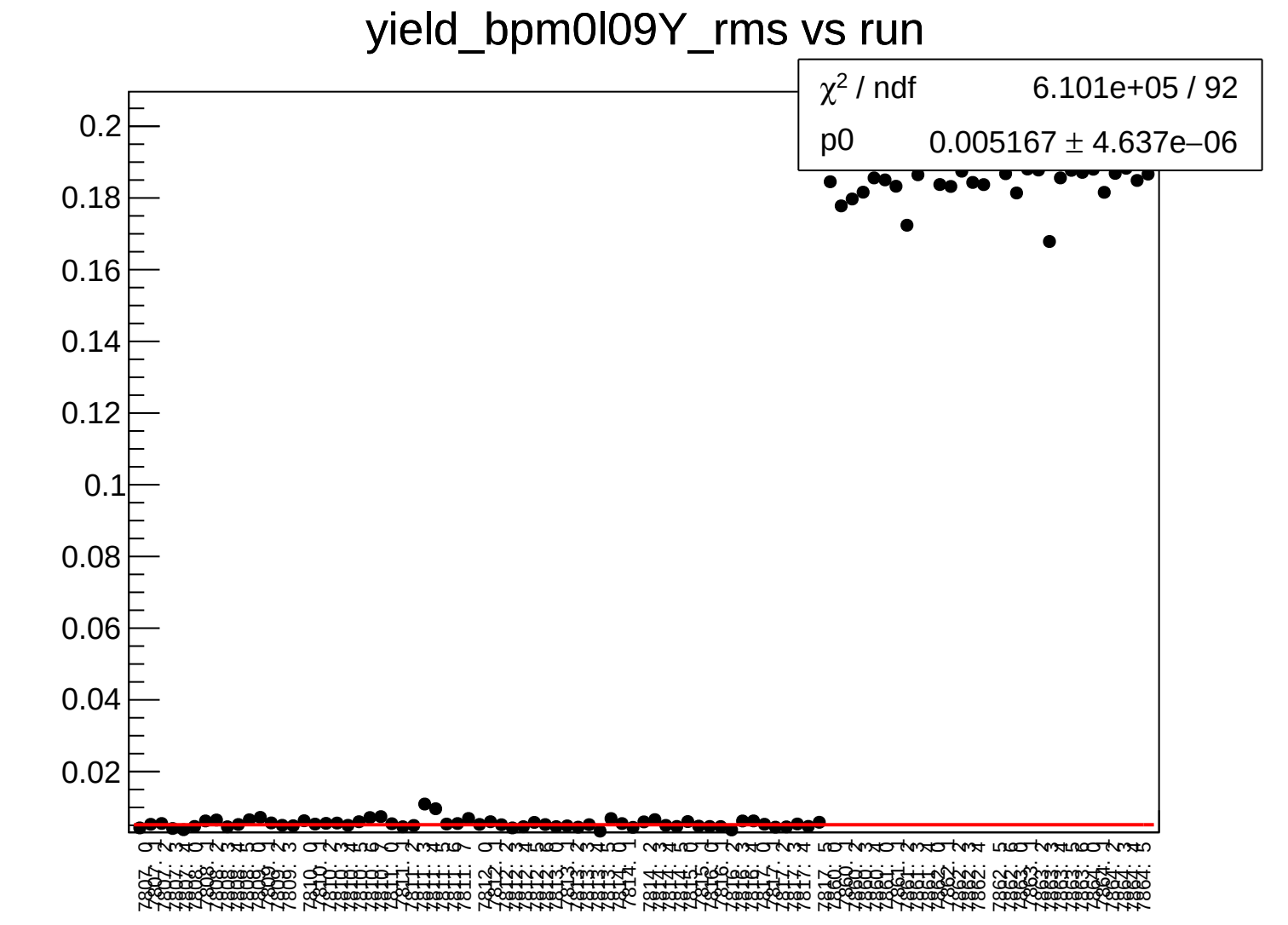

yield_bpm0l08Y_mean vs run
χ² / ndf 9.353e+09 / 92
p0 0.2928 ± 4.91e−06
pull
Entries 93
Mean 86.17
Std Dev 0
pull1D
Entries 93
Mean 0
Std Dev 0

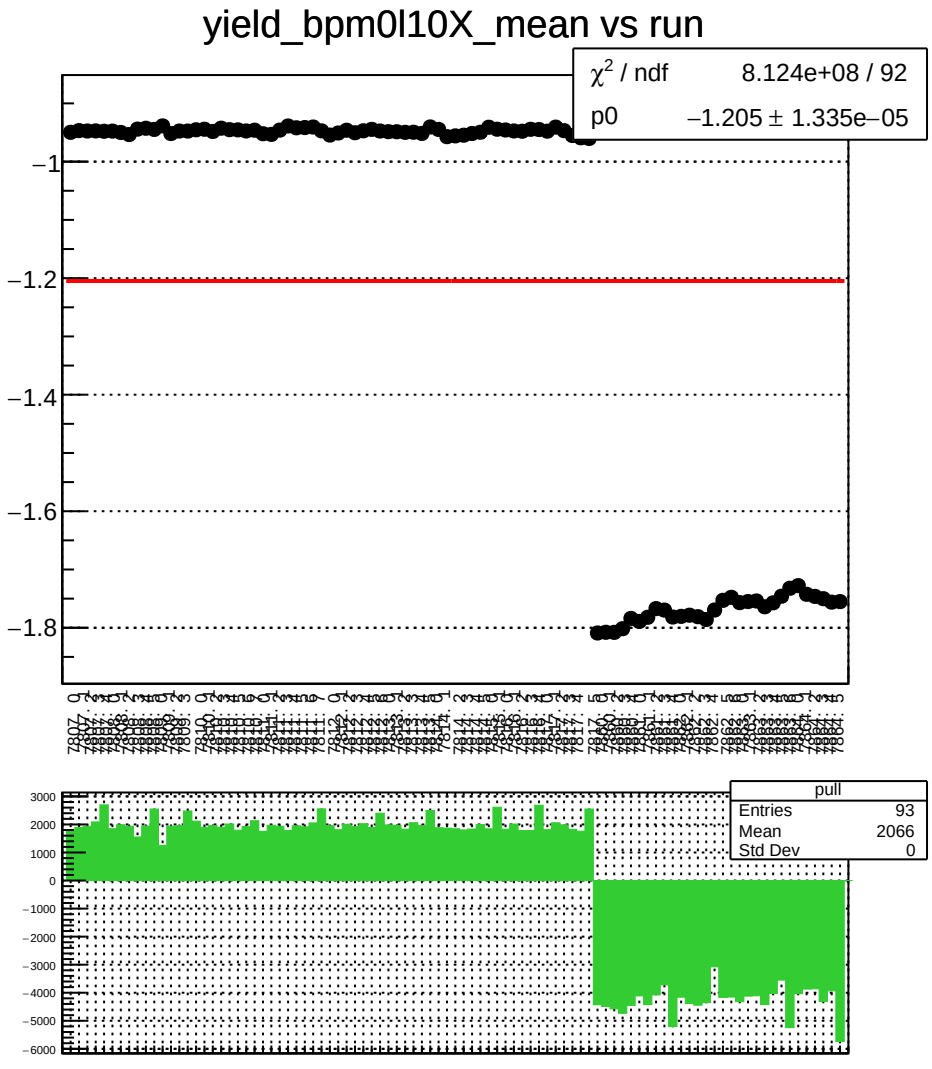

yield_bpm0l08Y_rms vs run
χ² / ndf 4.474e+05 / 92
p0 0.004114 ± 3.472e−06
0.025
0.02
0.015
0.01
0.005

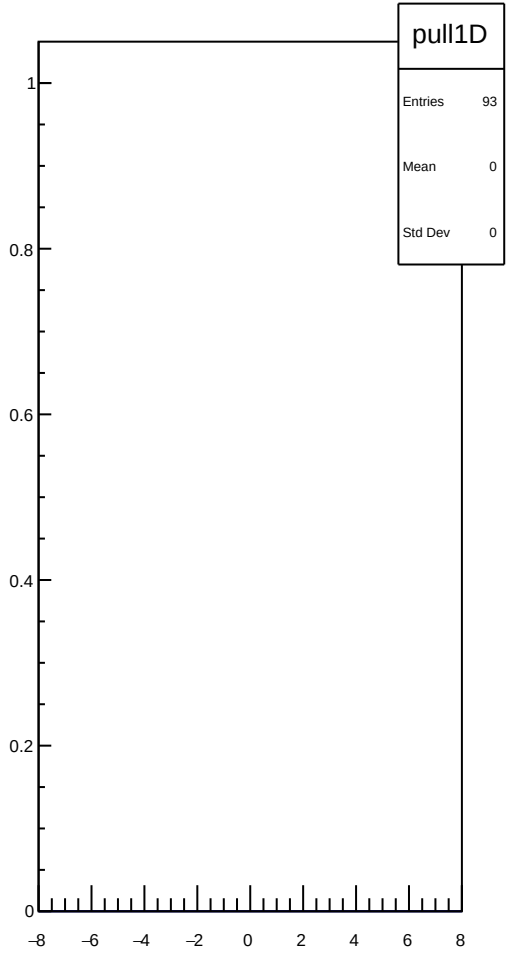

yield_bpm0l09X_mean vs run
χ² / ndf 8.111e+06 / 92
p0 1.271± 1.835e−05
2.2
2
1.8
1.6
1.4
1.2
pull
Entries 93
Mean 81.44
Std Dev 0
700
600
500
400
300
200
100
0
−100
pull1D
Entries 93
Mean 2.131
Std Dev 3.834
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

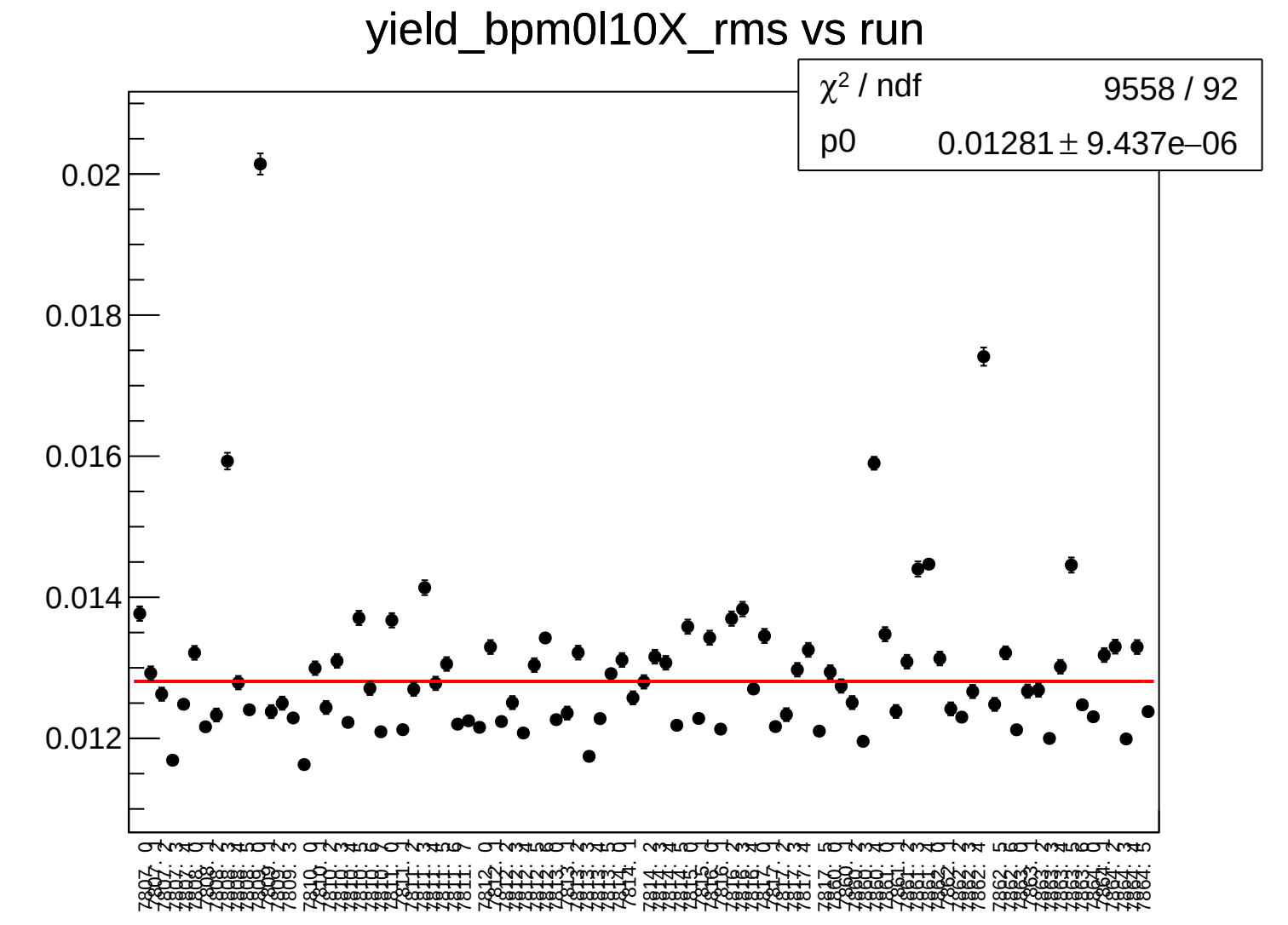

yield_bpm0l09X_rms vs run
χ² / ndf 5.113e+05 / 92
p0 0.01502 ± 1.297e−05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

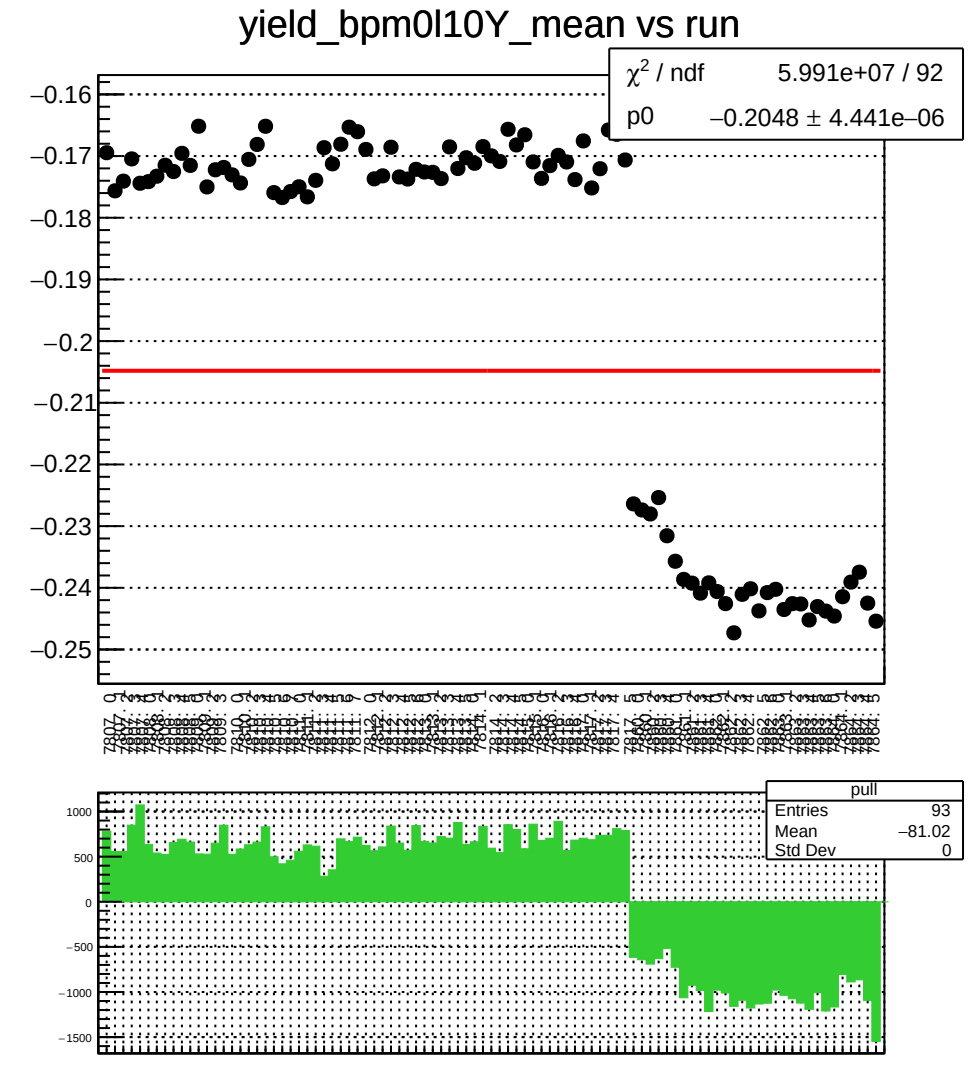

yield_bpm0l09Y_mean vs run
χ² / ndf 5.621e+07 / 92
p0 0.2699 ± 6.558e−06
pull
Entries 93
Mean 79.71
Std Dev 0
pull1D
Entries 93
Mean −2.908
Std Dev 3.956

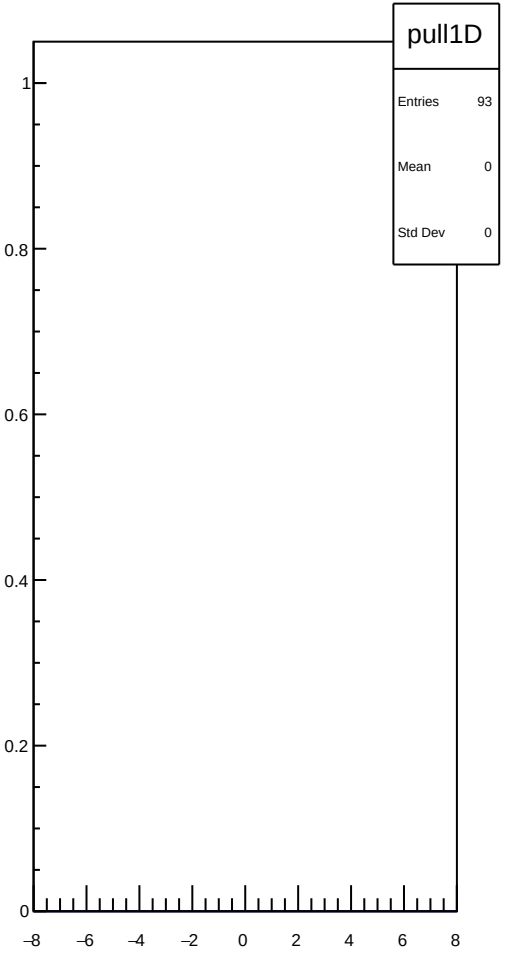

yield_bpm0l09Y_rms vs run
χ^2 / ndf 6.101e+05 / 92
p0 0.005167 ± 4.637e−06
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

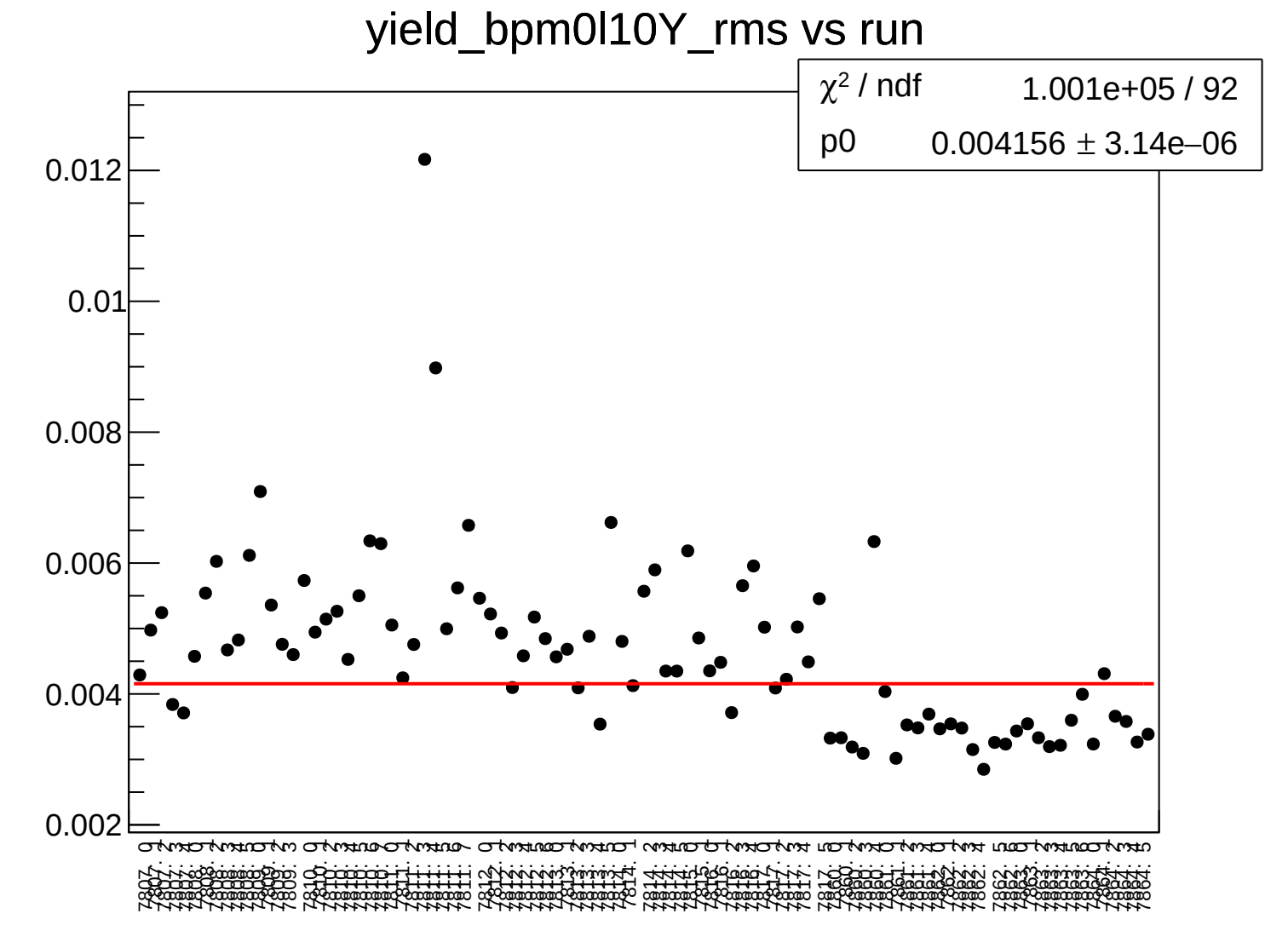

yield_bpm0l10X_mean vs run
χ² / ndf 8.124e+08 / 92
p0 −1.205 ± 1.335e−05
−1
−1.2
−1.4
−1.6
−1.8
pull
Entries 93
Mean 2066
Std Dev 0
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
−6000

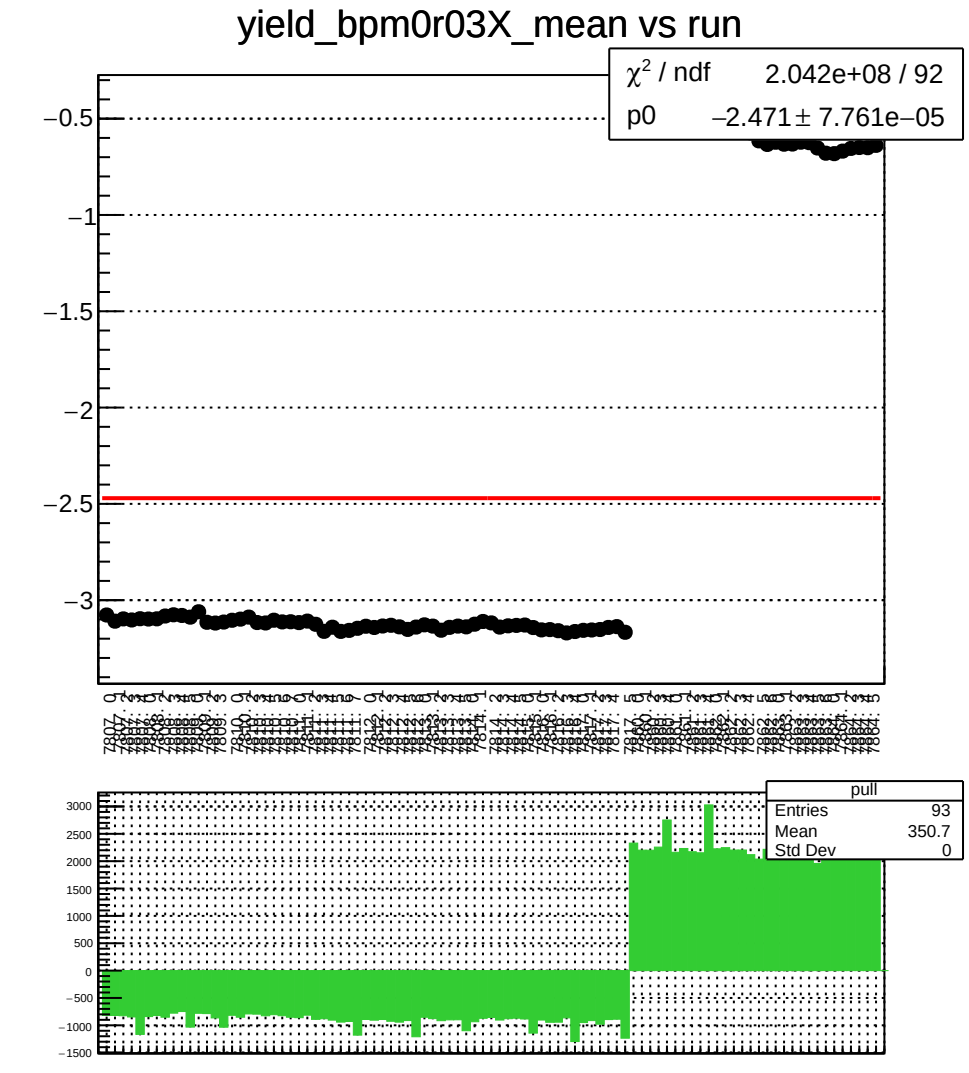

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

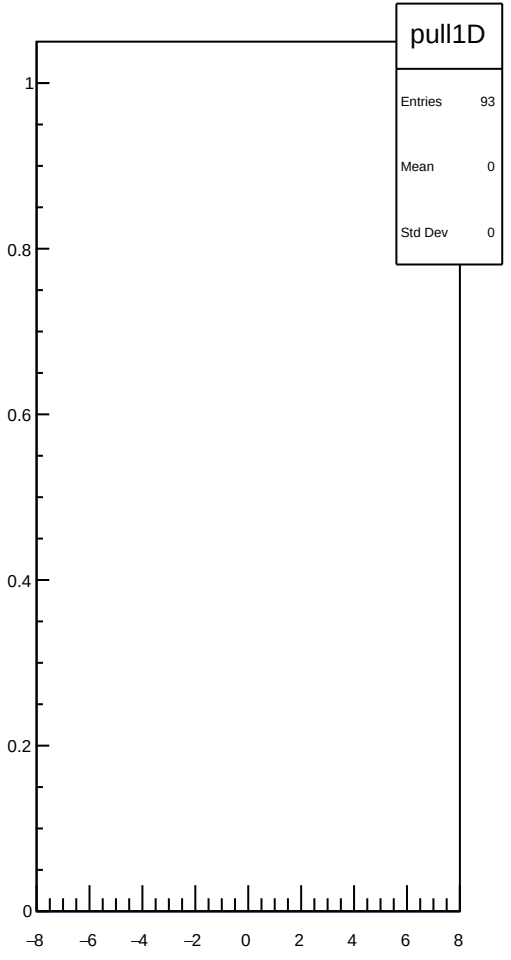

yield_bpm0l10X_rms vs run
χ² / ndf 9558 / 92
p0 0.01281 ± 9.437e–06
0.02
0.018
0.016
0.014
0.012

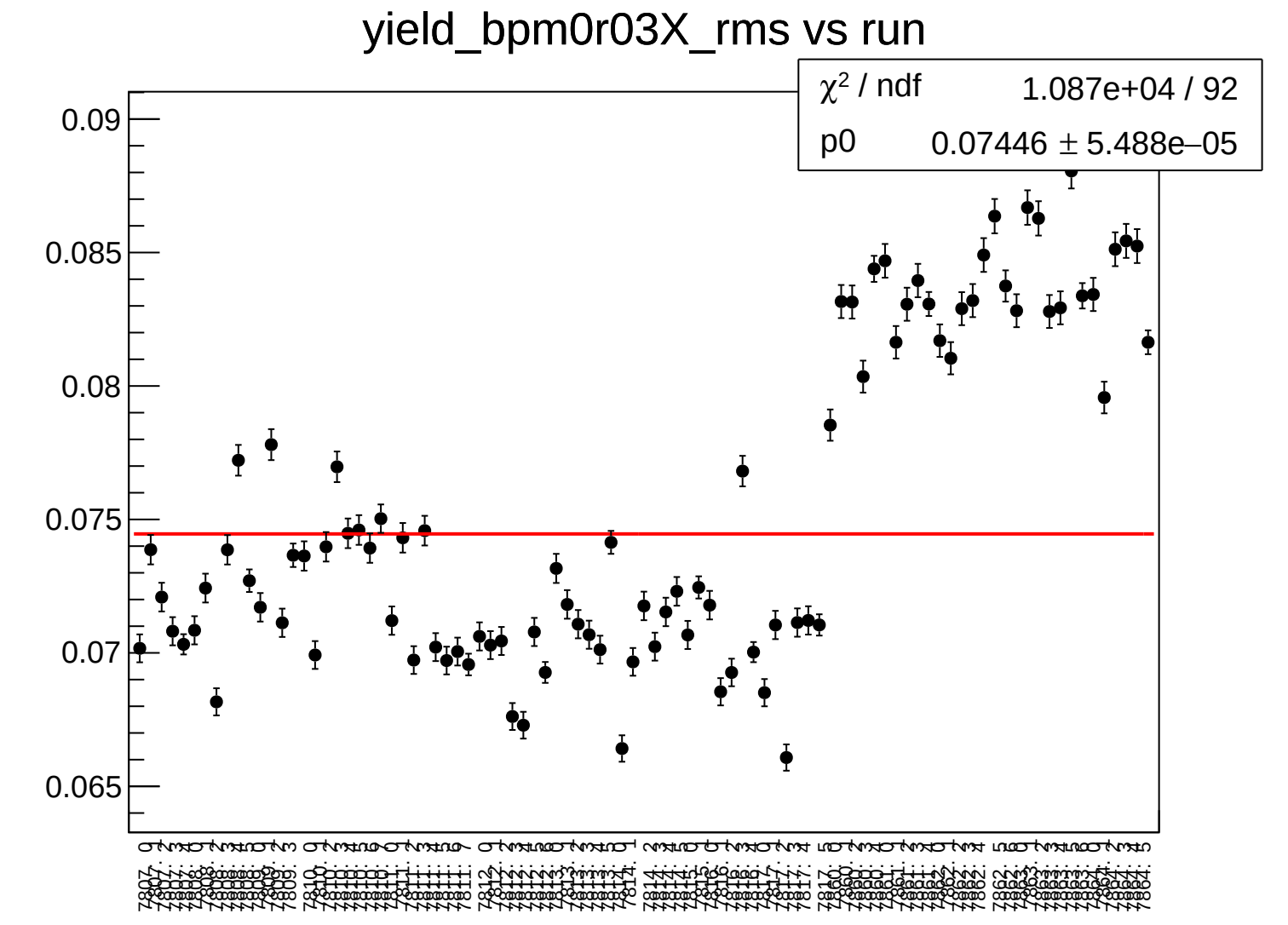

yield_bpm0l10Y_mean vs run
χ² / ndf 5.991e+07 / 92
p0 −0.2048 ± 4.441e−06
−0.16
−0.17
−0.18
−0.19
−0.2
−0.21
−0.22
−0.23
−0.24
−0.25
pull
Entries 93
Mean −81.02
Std Dev 0
1000
500
0
−500
−1000
−1500

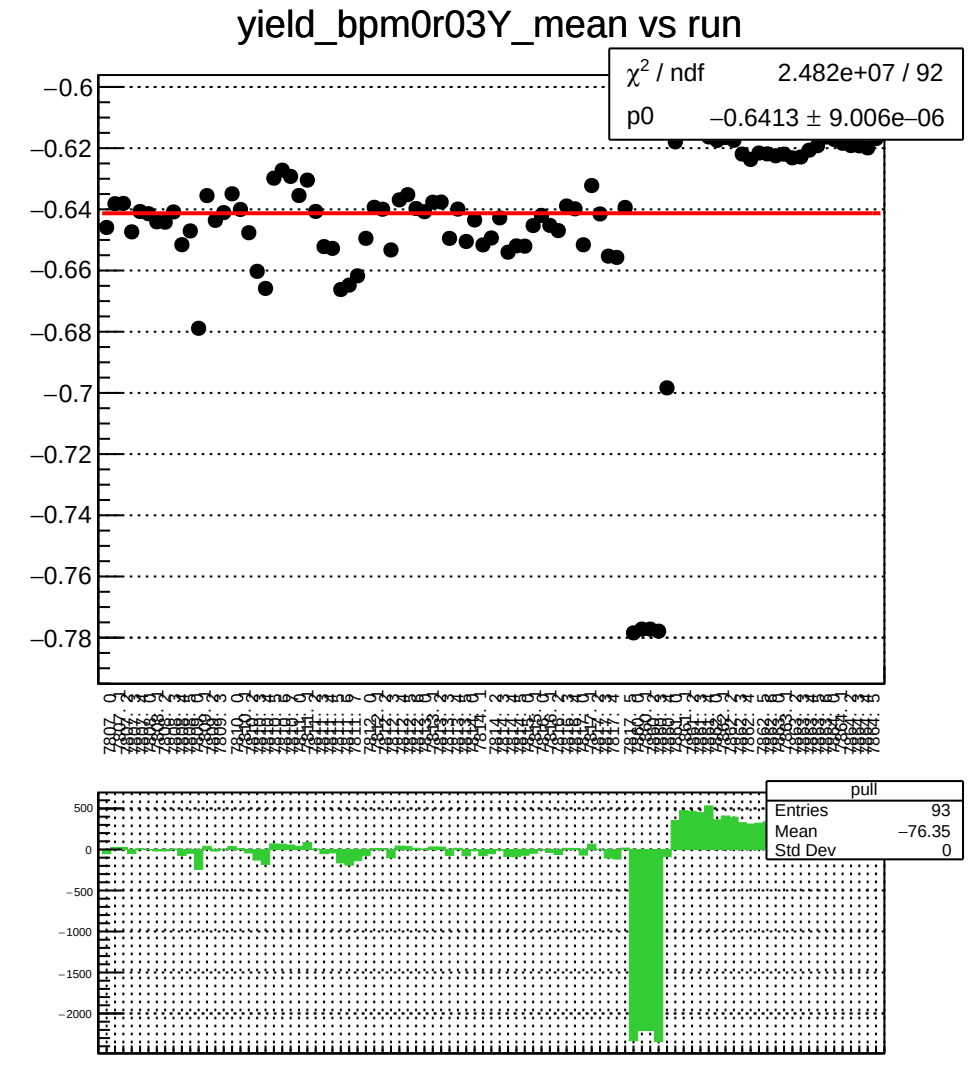

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

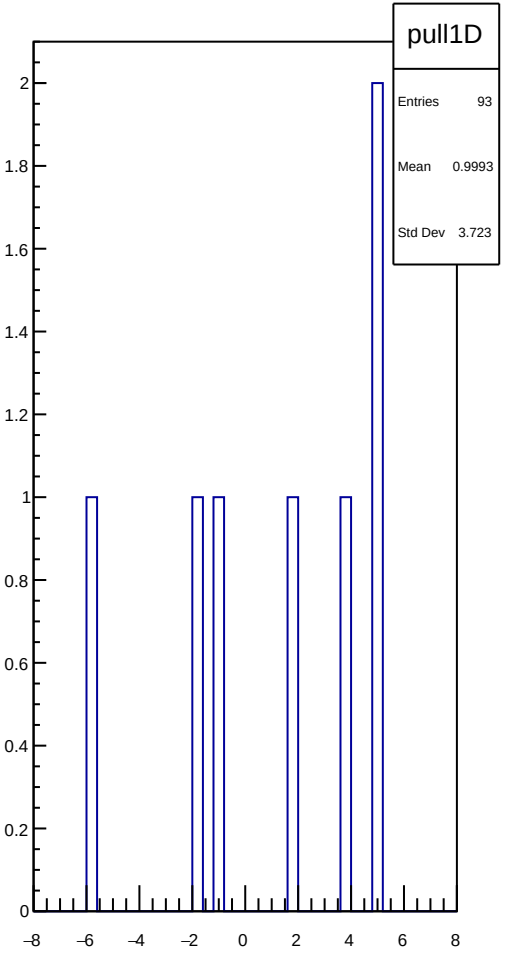

yield_bpm0l10Y_rms vs run
χ² / ndf 1.001e+05 / 92
p0 0.004156 ± 3.14e–06
0.012
0.01
0.008
0.006
0.004
0.002

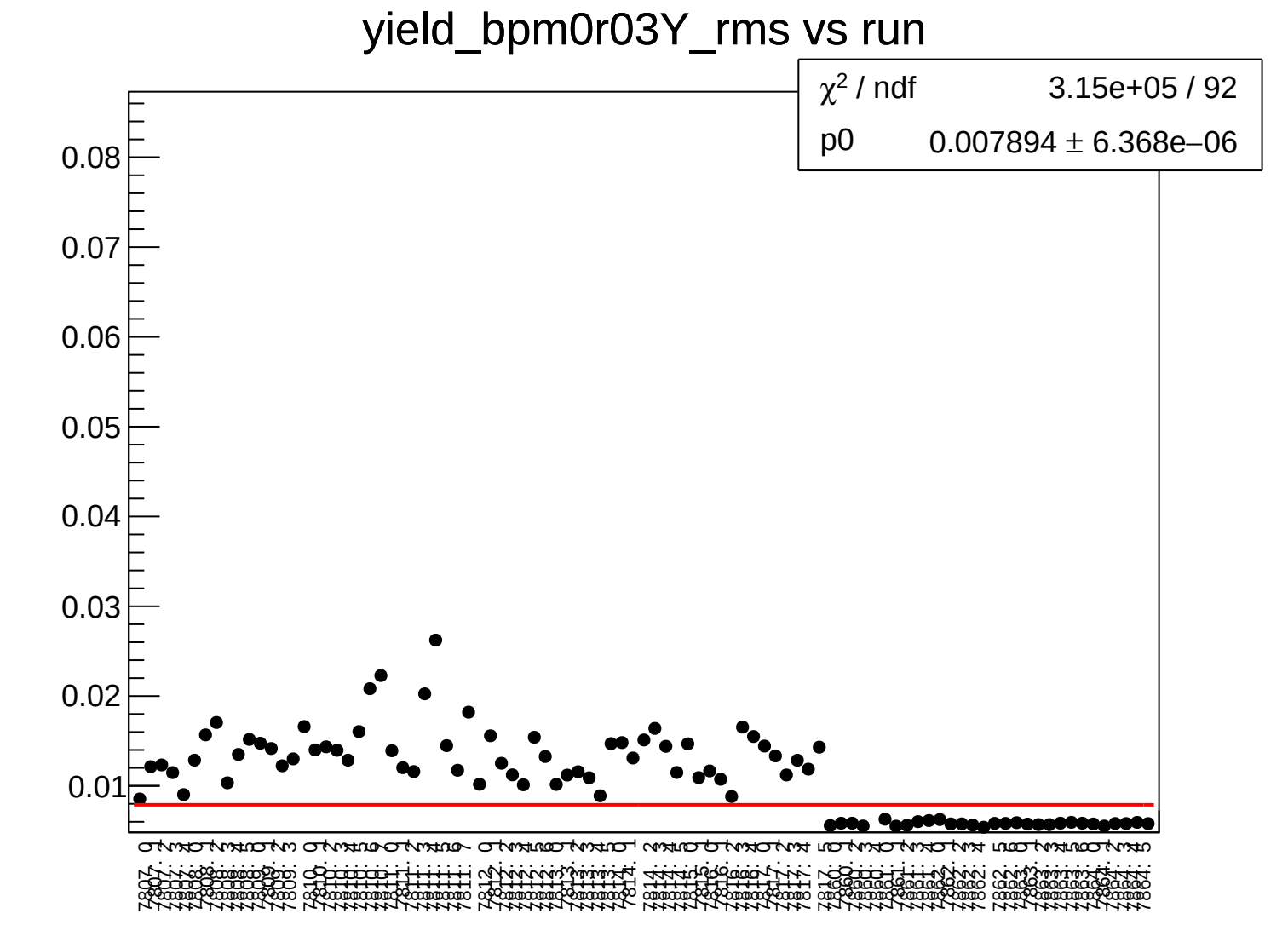

yield_bpm0r03X_mean vs run
χ² / ndf 2.042e+08 / 92
p0 −2.471 ± 7.761e−05
pull
Entries 93
Mean 350.7
Std Dev 0

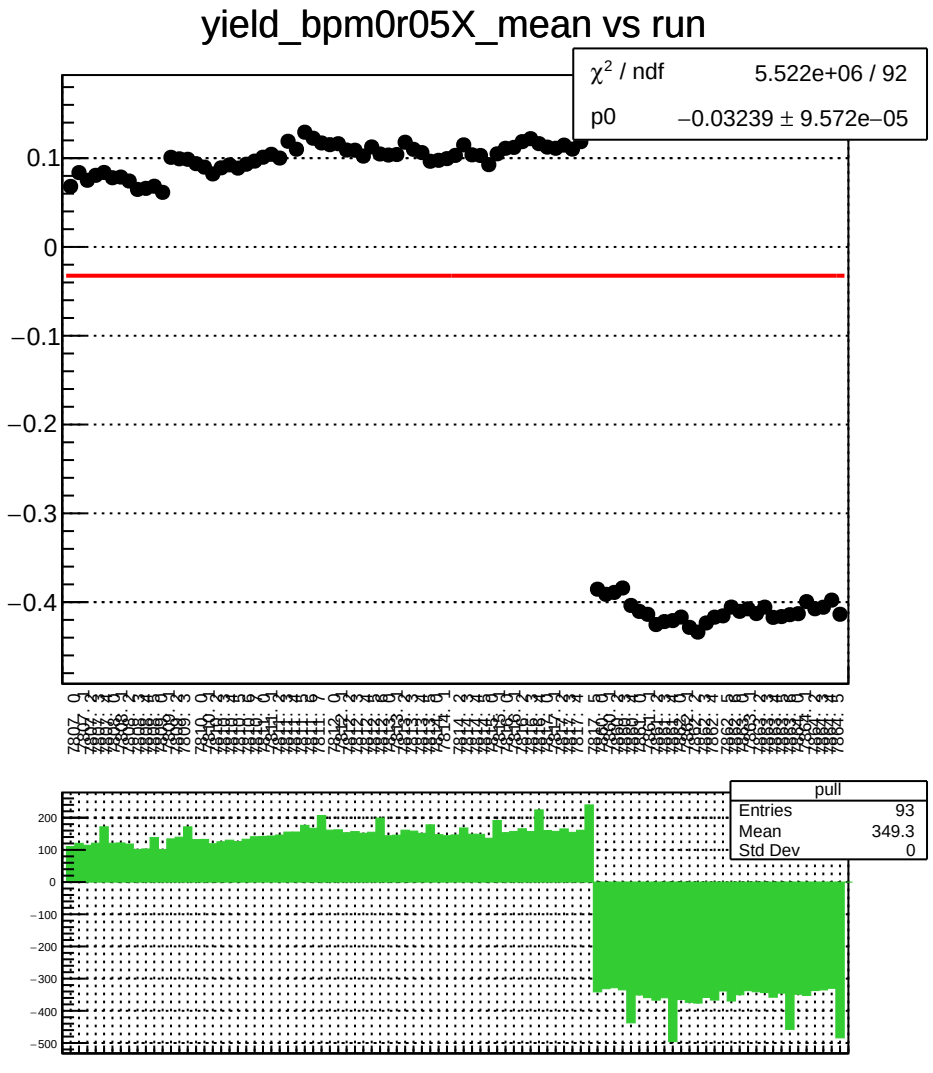

pull1D
Entries 93
Mean 0
Std Dev 0

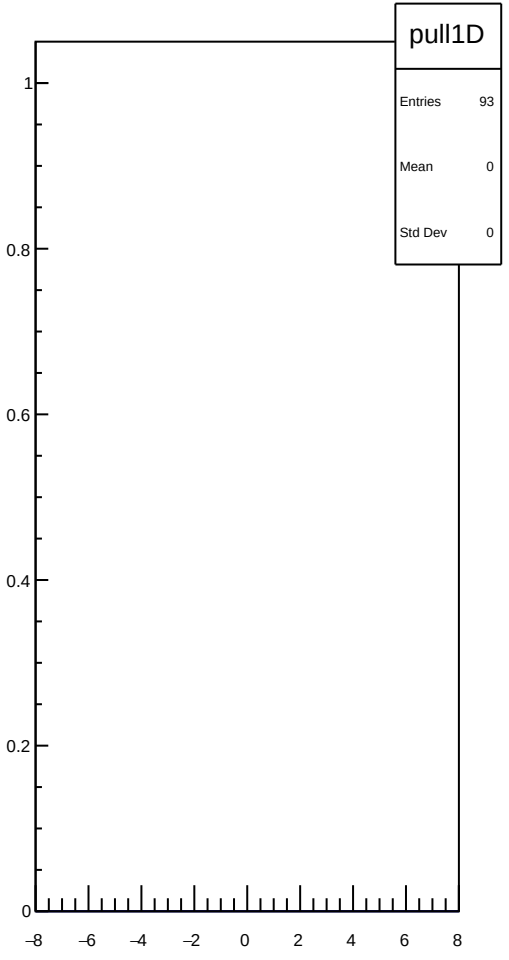

yield_bpm0r03X_rms vs run
χ² / ndf 1.087e+04 / 92
p0 0.07446 ± 5.488e−05
0.09
0.085
0.08
0.075
0.07
0.065

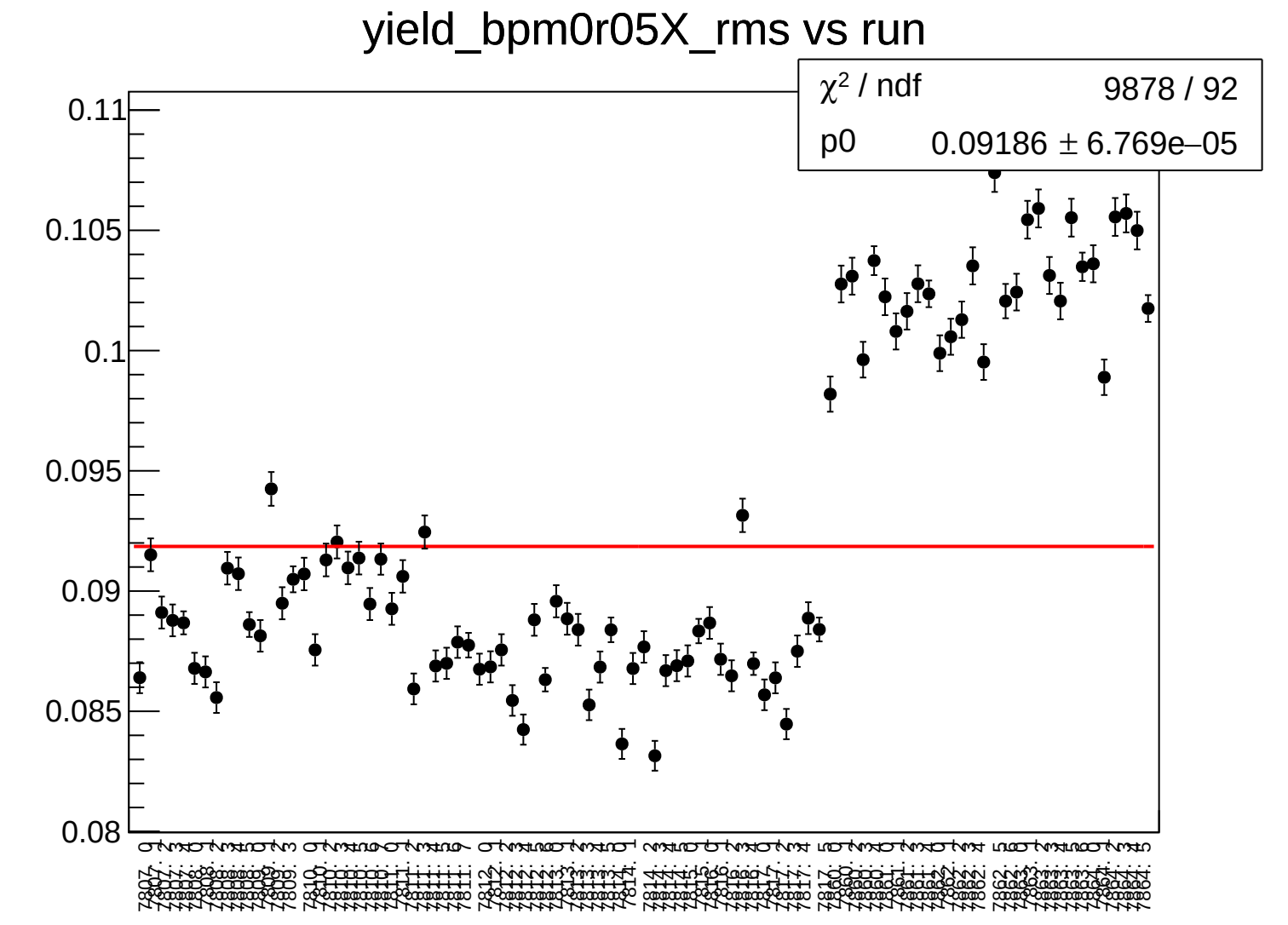

yield_bpm0r03Y_mean vs run
χ² / ndf 2.482e+07 / 92
p0 −0.6413 ± 9.006e−06
pull
Entries 93
Mean −76.35
Std Dev 0

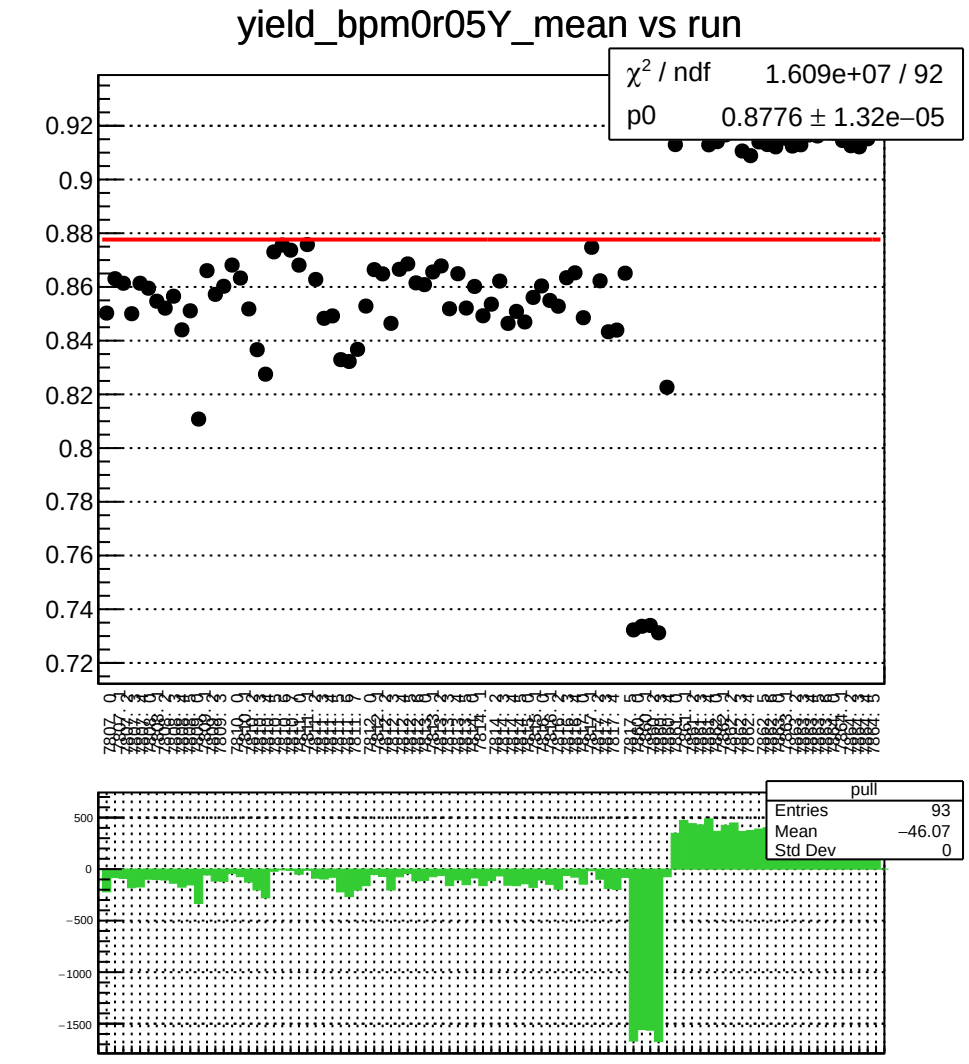

pull1D
Entries 93
Mean 0.9993
Std Dev 3.723

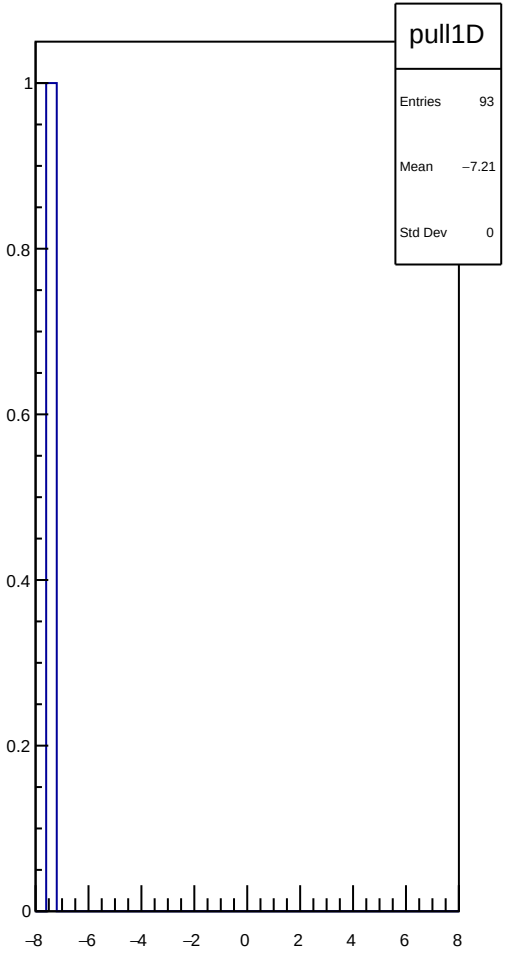

yield_bpm0r03Y_rms vs run
χ² / ndf 3.15e+05 / 92
p0 0.007894 ± 6.368e−06
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

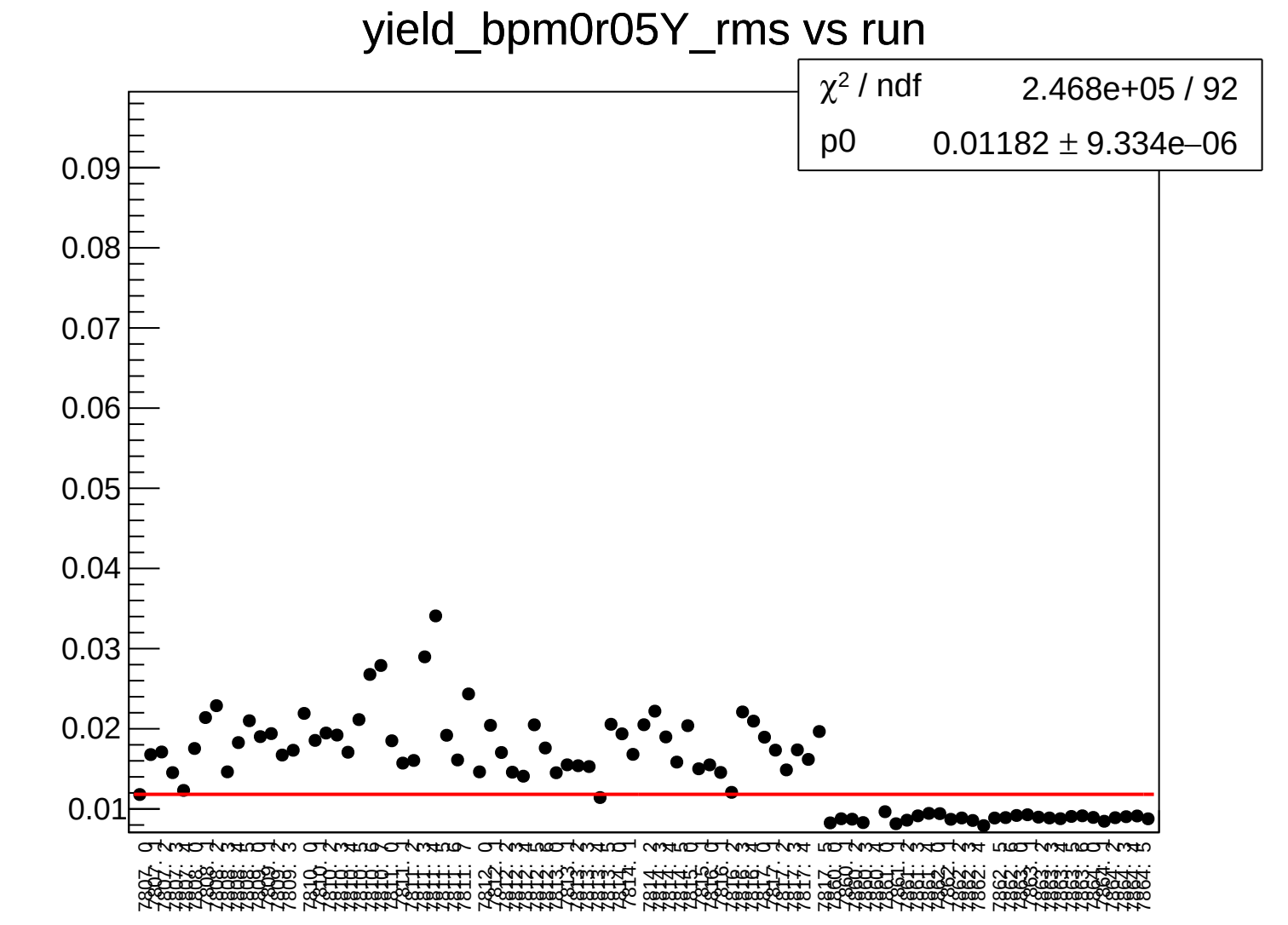

yield_bpm0r05X_mean vs run
χ² / ndf 5.522e+06 / 92
p0 −0.03239 ± 9.572e−05
0.1
0
−0.1
−0.2
−0.3
−0.4
pull
Entries 93
Mean 349.3
Std Dev 0
200
100
0
−100
−200
−300
−400
−500

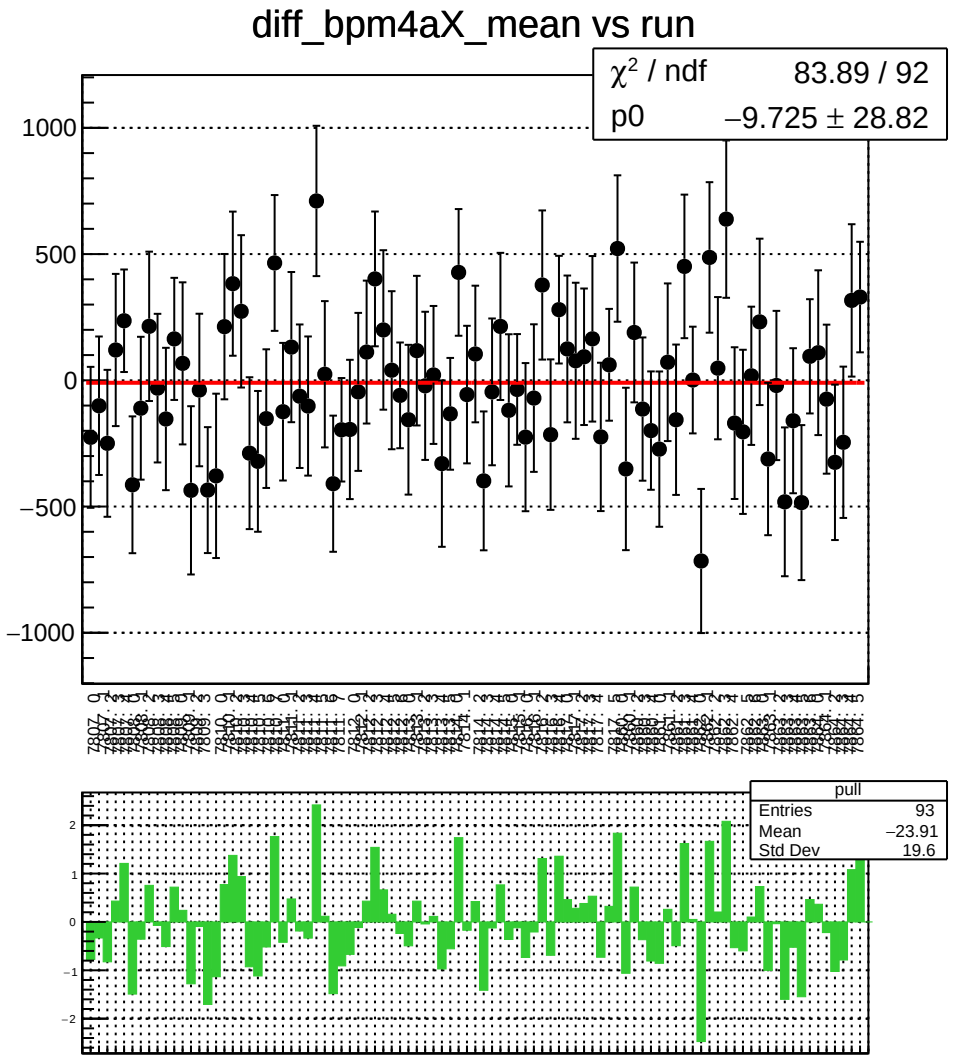

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

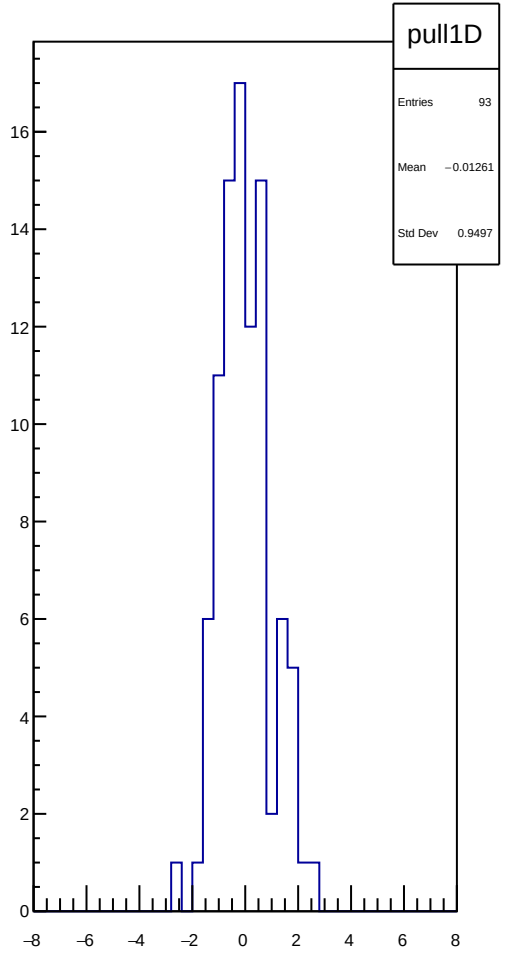

yield_bpm0r05X_rms vs run
χ² / ndf 9878 / 92
p0 0.09186 ± 6.769e−05
0.11
0.105
0.1
0.095
0.09
0.085
0.08

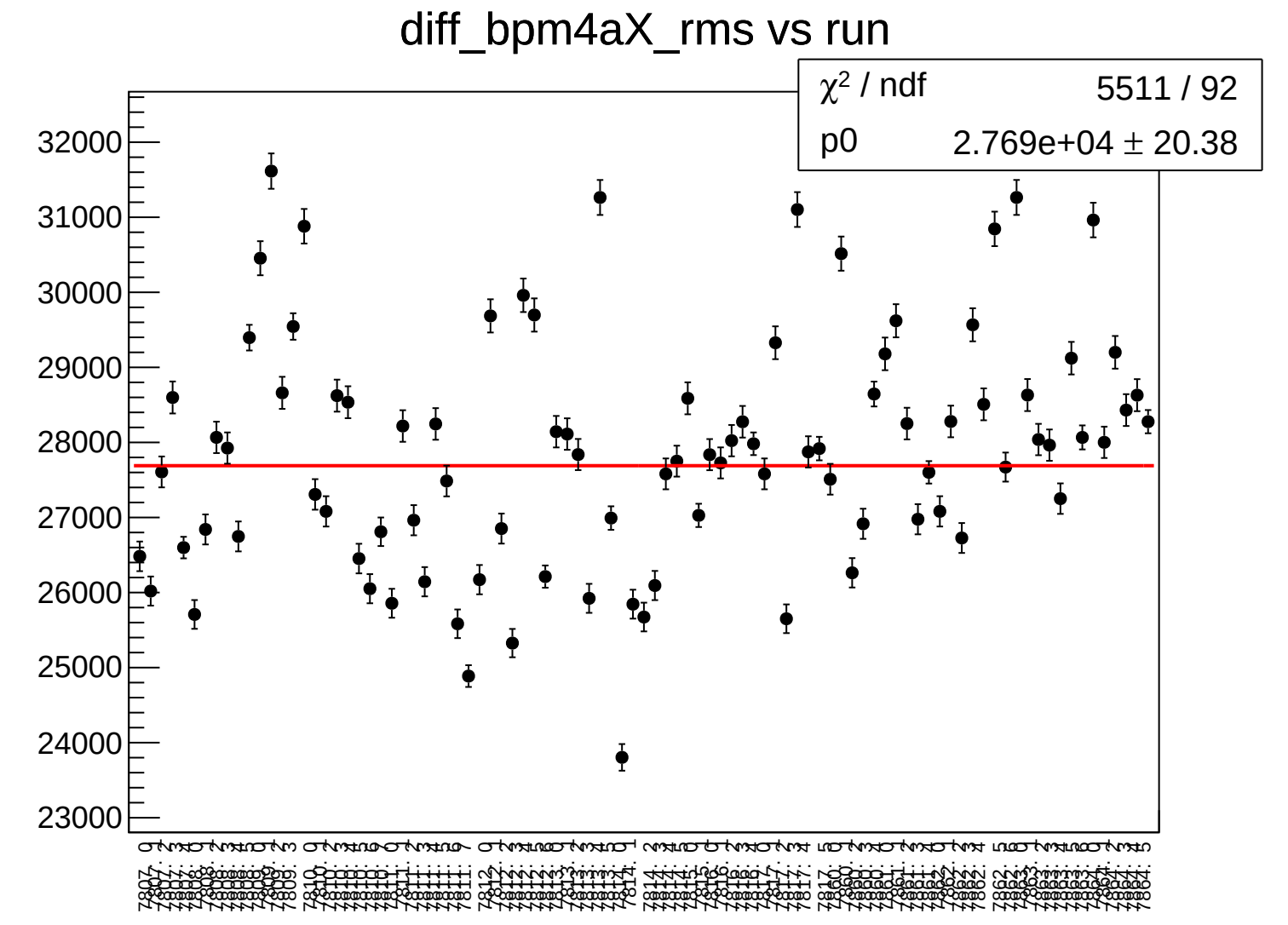

yield_bpm0r05Y_mean vs run
χ² / ndf 1.609e+07 / 92
p0 0.8776 ± 1.32e−05
0.92
0.9
0.88
0.86
0.84
0.82
0.8
0.78
0.76
0.74
0.72
pull
Entries 93
Mean −46.07
Std Dev 0
500
0
−500
−1000
−1500

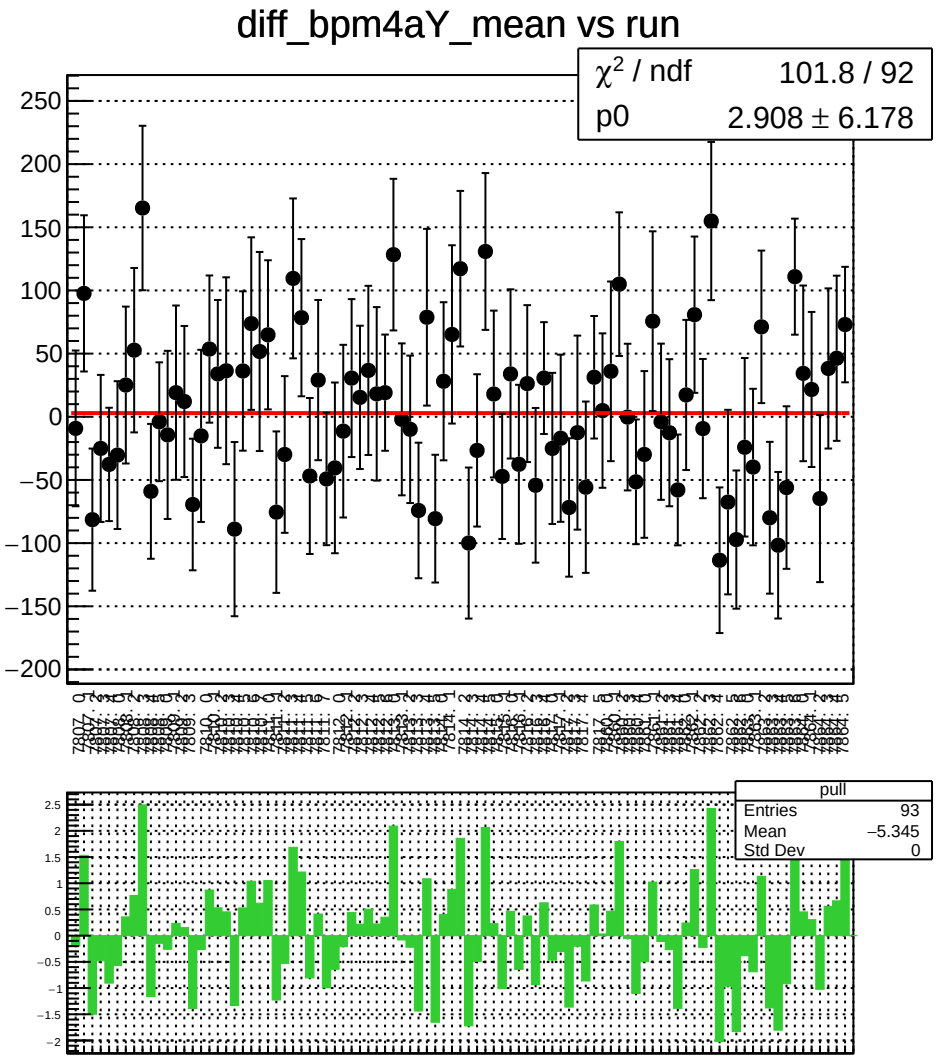

pull1D
Entries 93
Mean −7.21
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

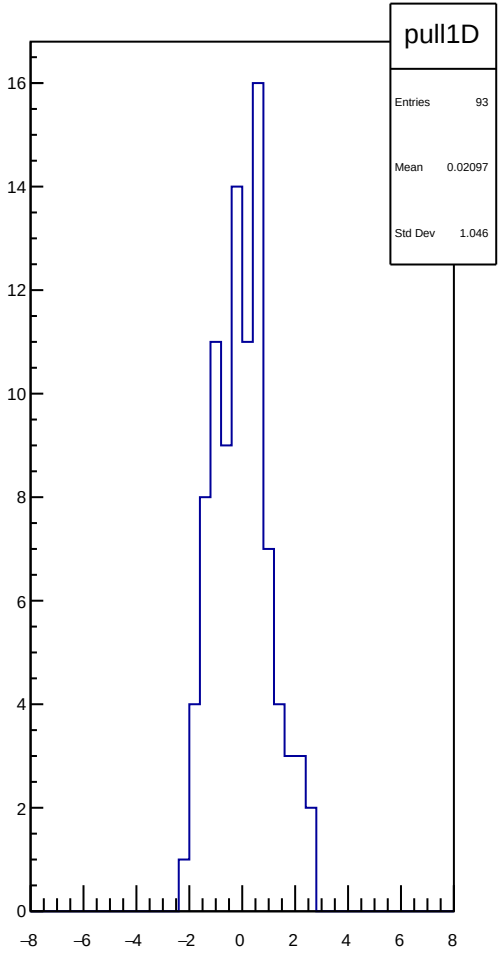

yield_bpm0r05Y_rms vs run
χ² / ndf 2.468e+05 / 92
p0 0.01182 ± 9.334e–06
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

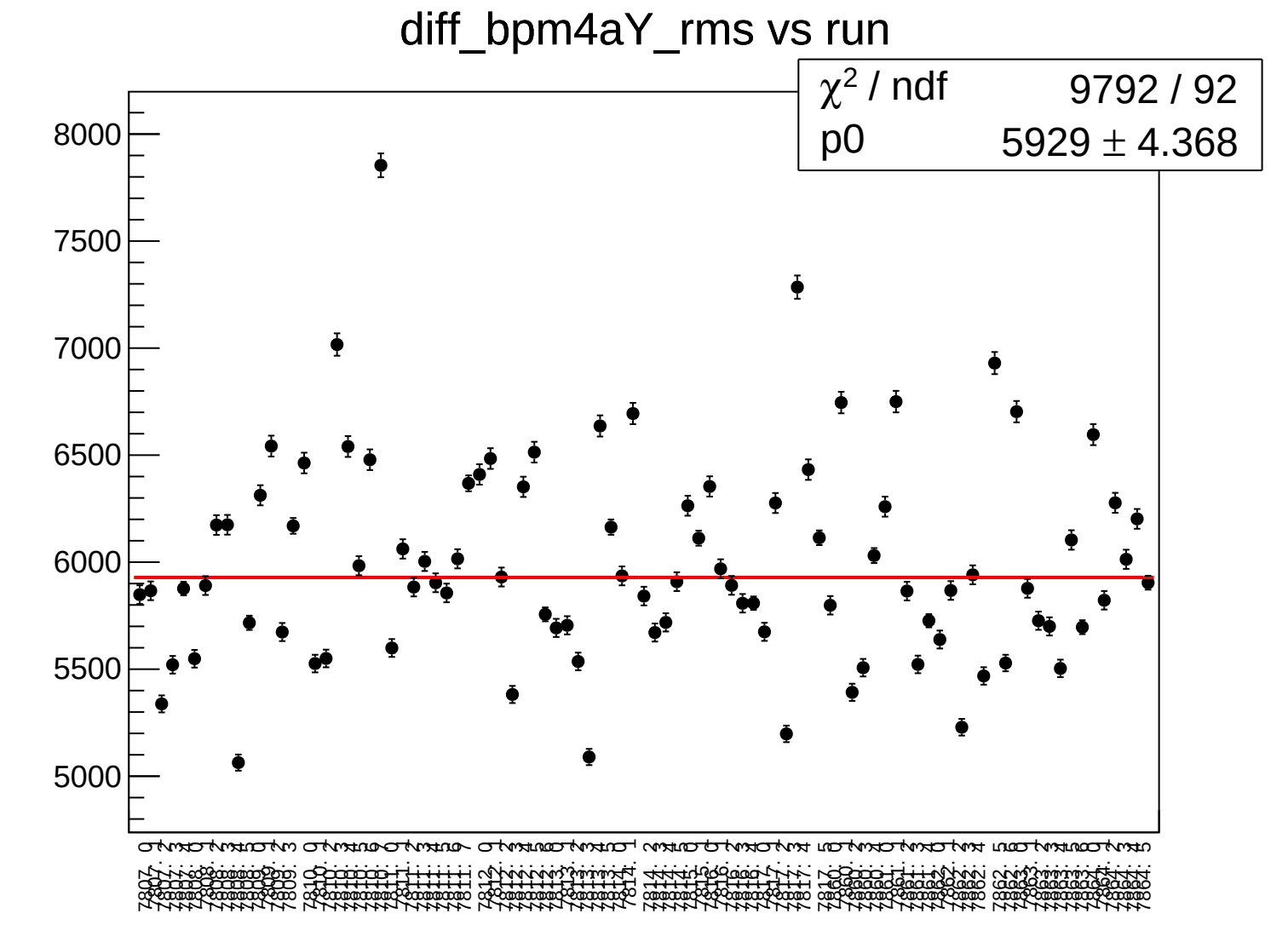

diff_bpm4aX_mean vs run
χ² / ndf 83.89 / 92
p0 −9.725 ± 28.82
1000
500
0
−500
−1000
pull
Entries 93
Mean −23.91
Std Dev 19.6
2
1
0
−1
−2

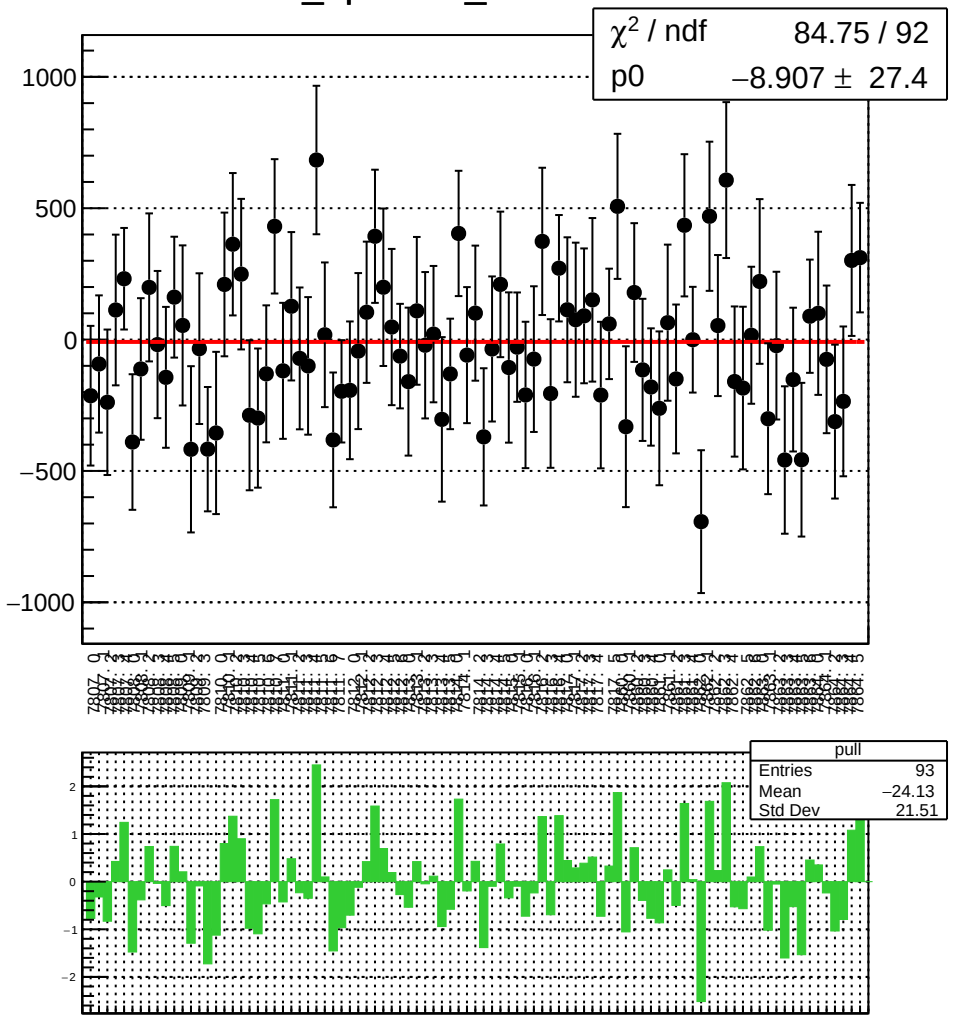

pull1D
Entries 93
Mean −0.01261
Std Dev 0.9497
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

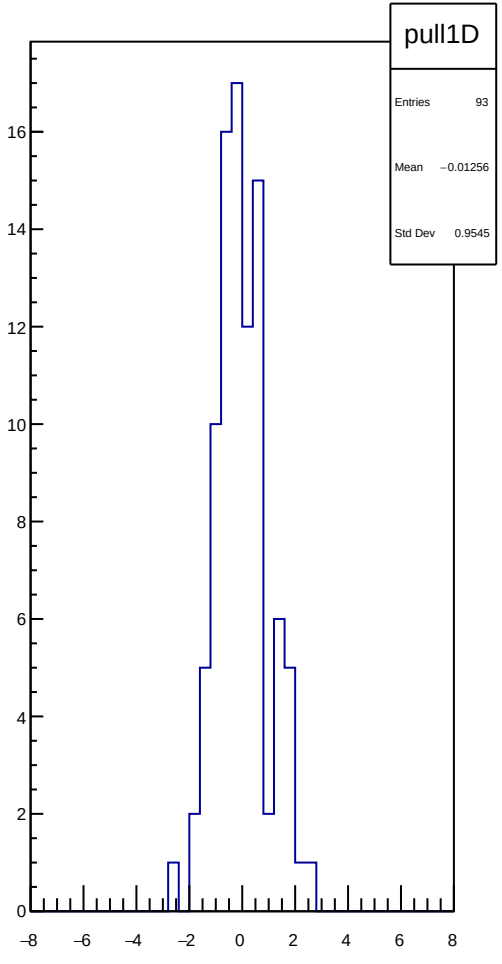

diff_bpm4aX_rms vs run
χ² / ndf 5511 / 92
p0 2.769e+04 ± 20.38
32000
31000
30000
29000
28000
27000
26000
25000
24000
23000

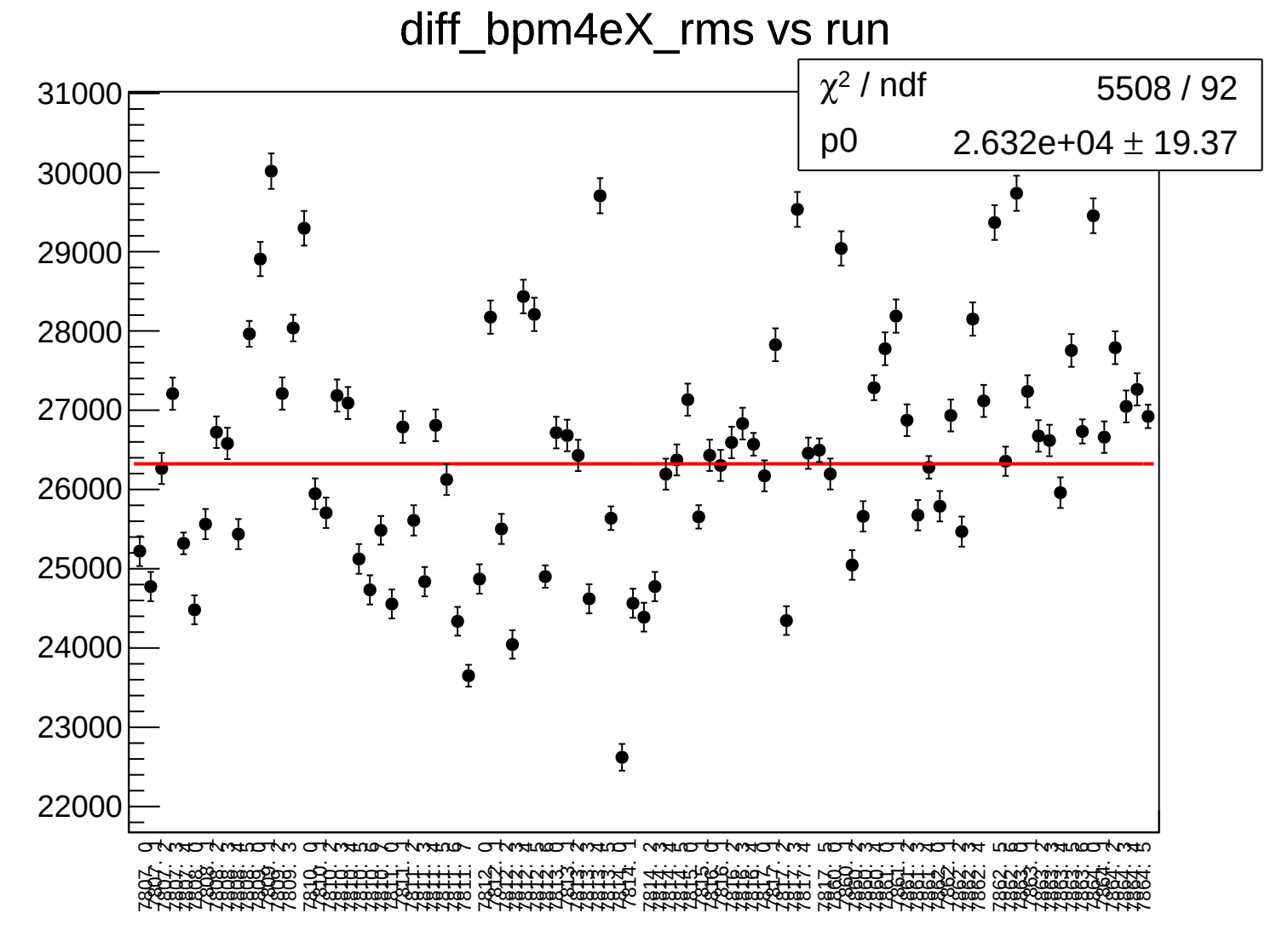

diff_bpm4aY_mean vs run
χ^2 / ndf 101.8 / 92
p0 2.908 ± 6.178
pull
Entries 93
Mean −5.345
Std Dev 0

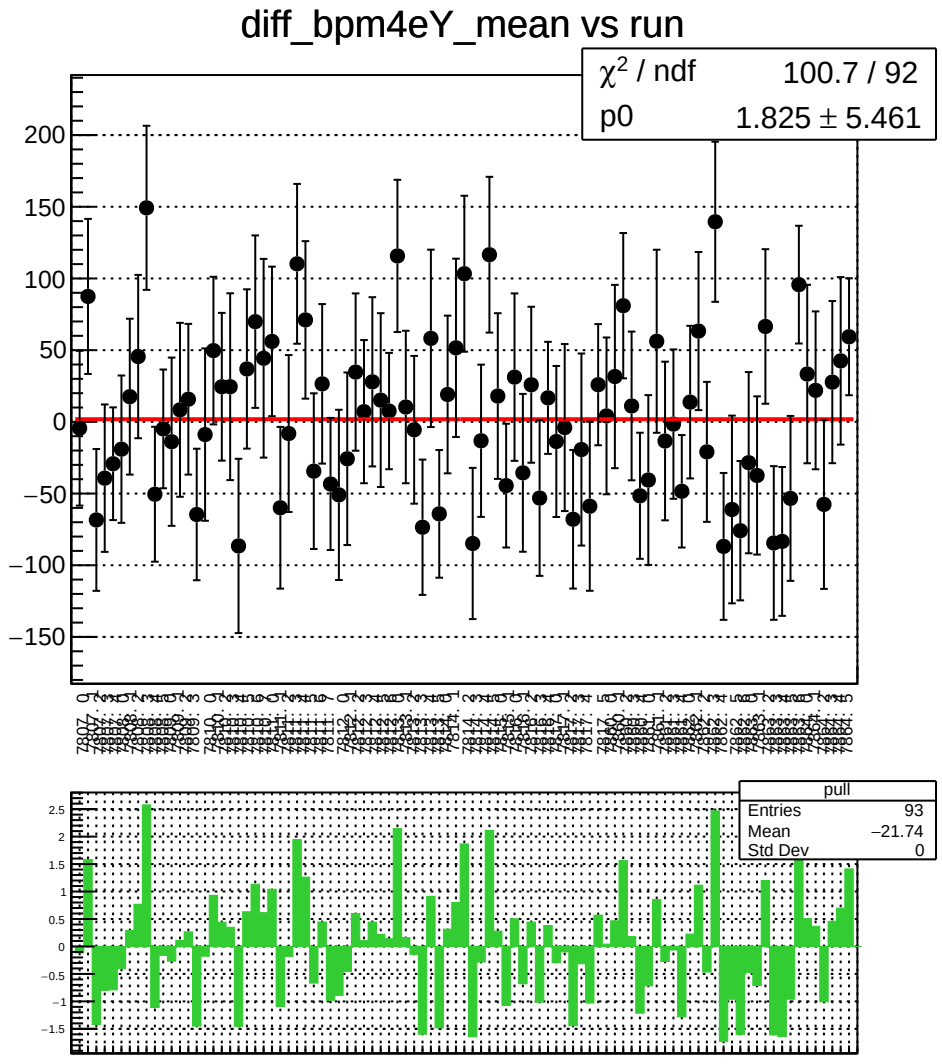

pull1D
Entries 93
Mean 0.02097
Std Dev 1.046

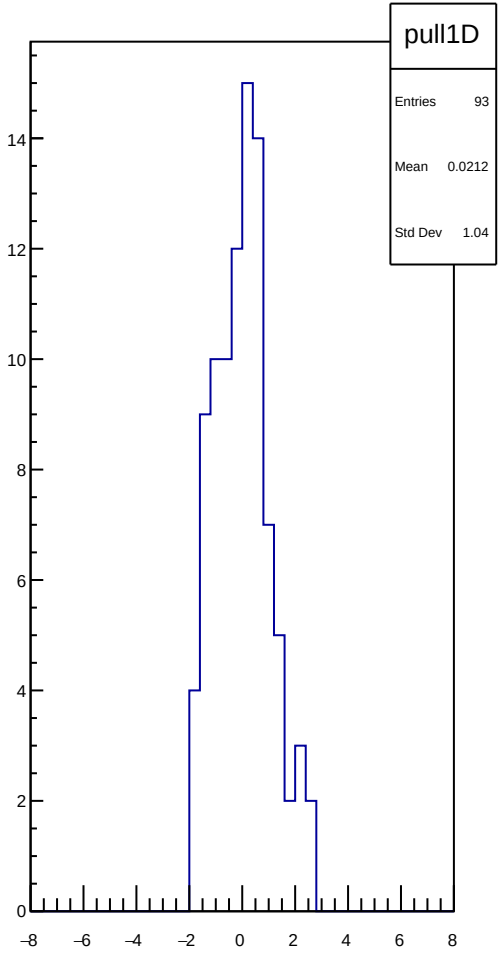

diff_bpm4aY_rms vs run
χ² / ndf 9792 / 92
p0 5929 ± 4.368
8000
7500
7000
6500
6000
5500
5000

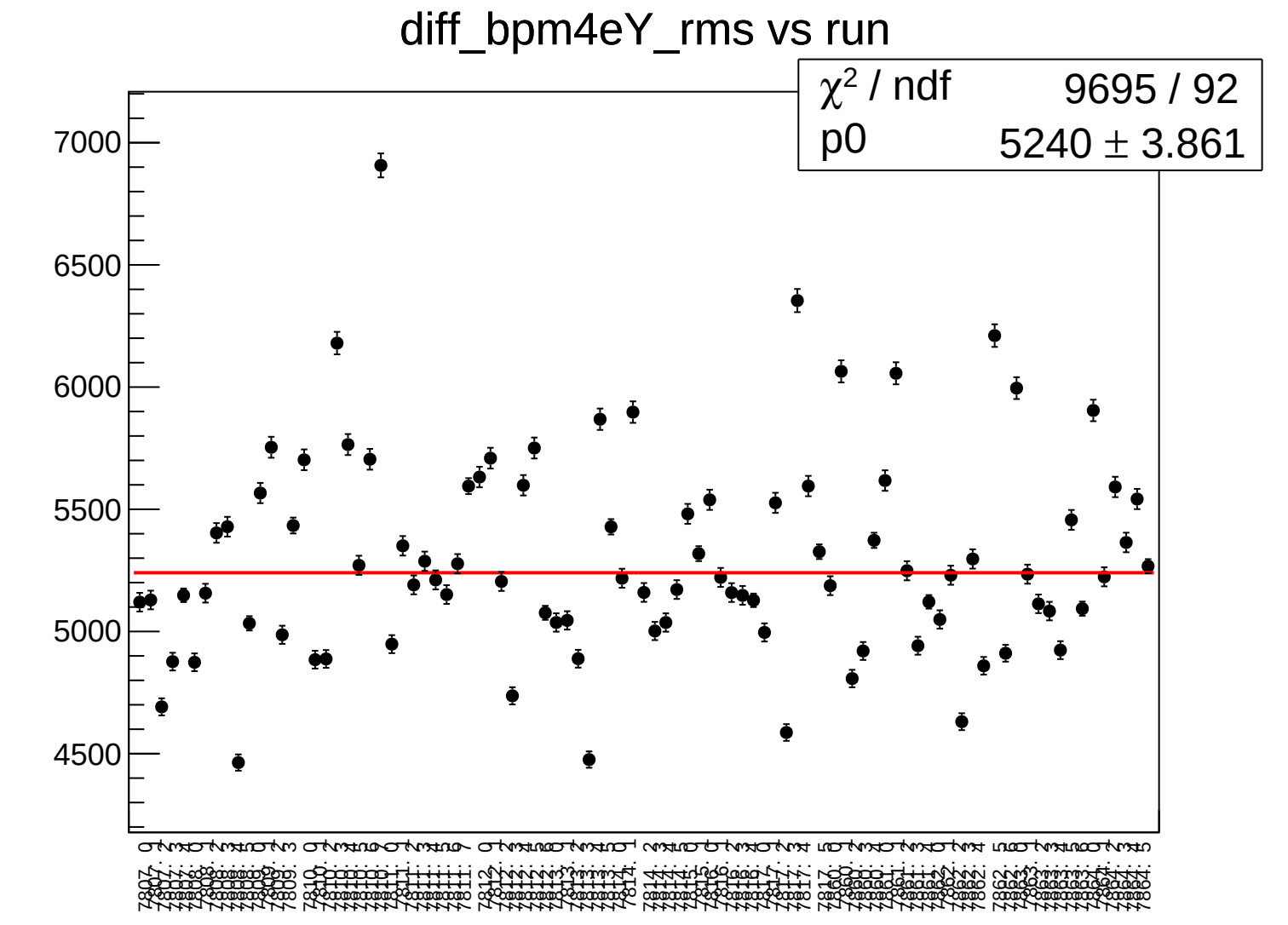

diff_bpm4eX_mean vs run
χ² / ndf 84.75 / 92
p0 −8.907 ± 27.4
1000
500
0
−500
−1000
pull
Entries 93
Mean −24.13
Std Dev 21.51
2
1
0
−1
−2

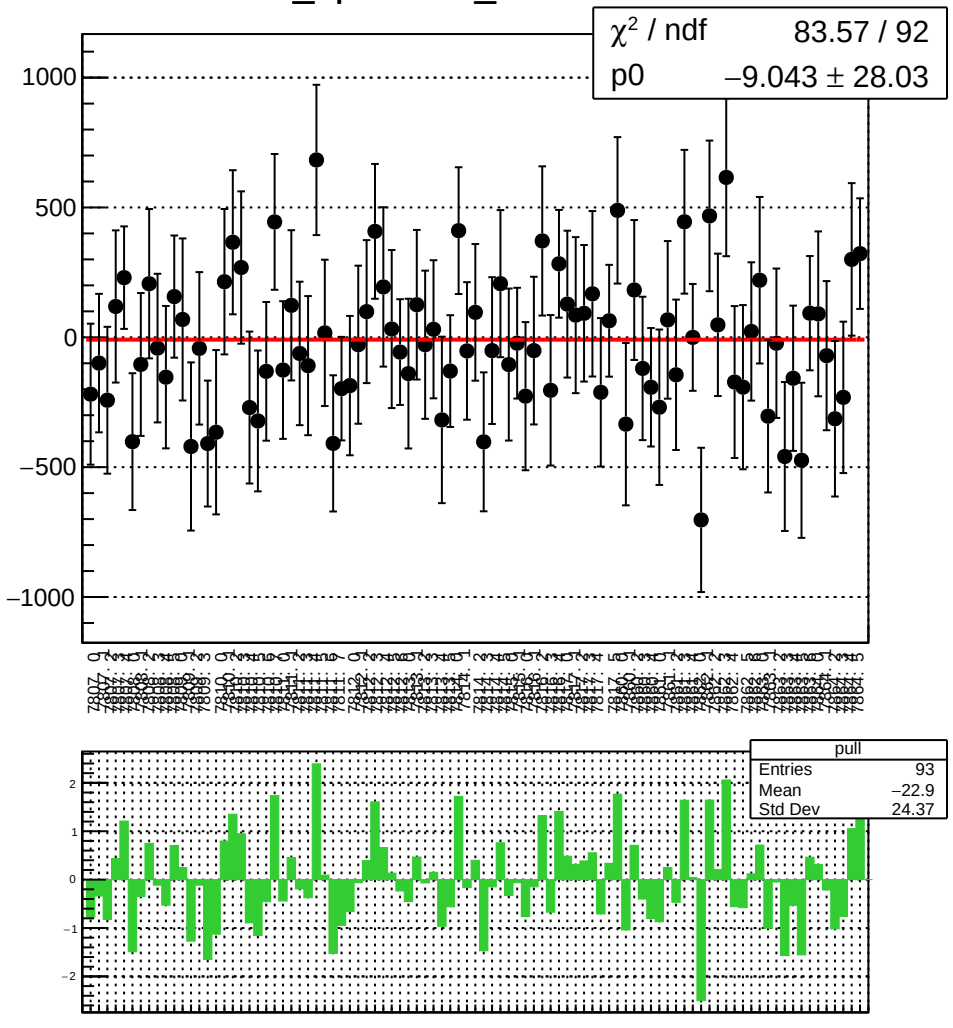

pull1D
Entries 93
Mean −0.01256
Std Dev 0.9545
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

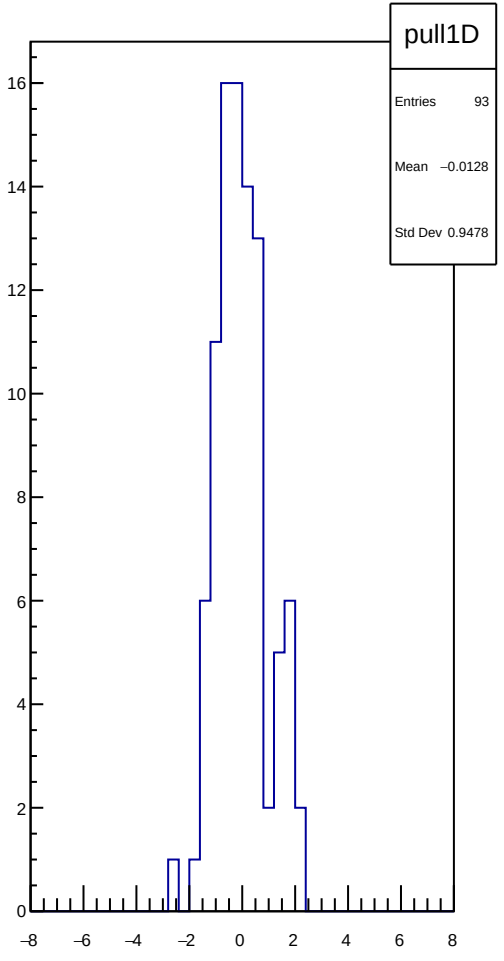

diff_bpm4eX_rms vs run
χ² / ndf 5508 / 92
p0 2.632e+04 ± 19.37
31000
30000
29000
28000
27000
26000
25000
24000
23000
22000

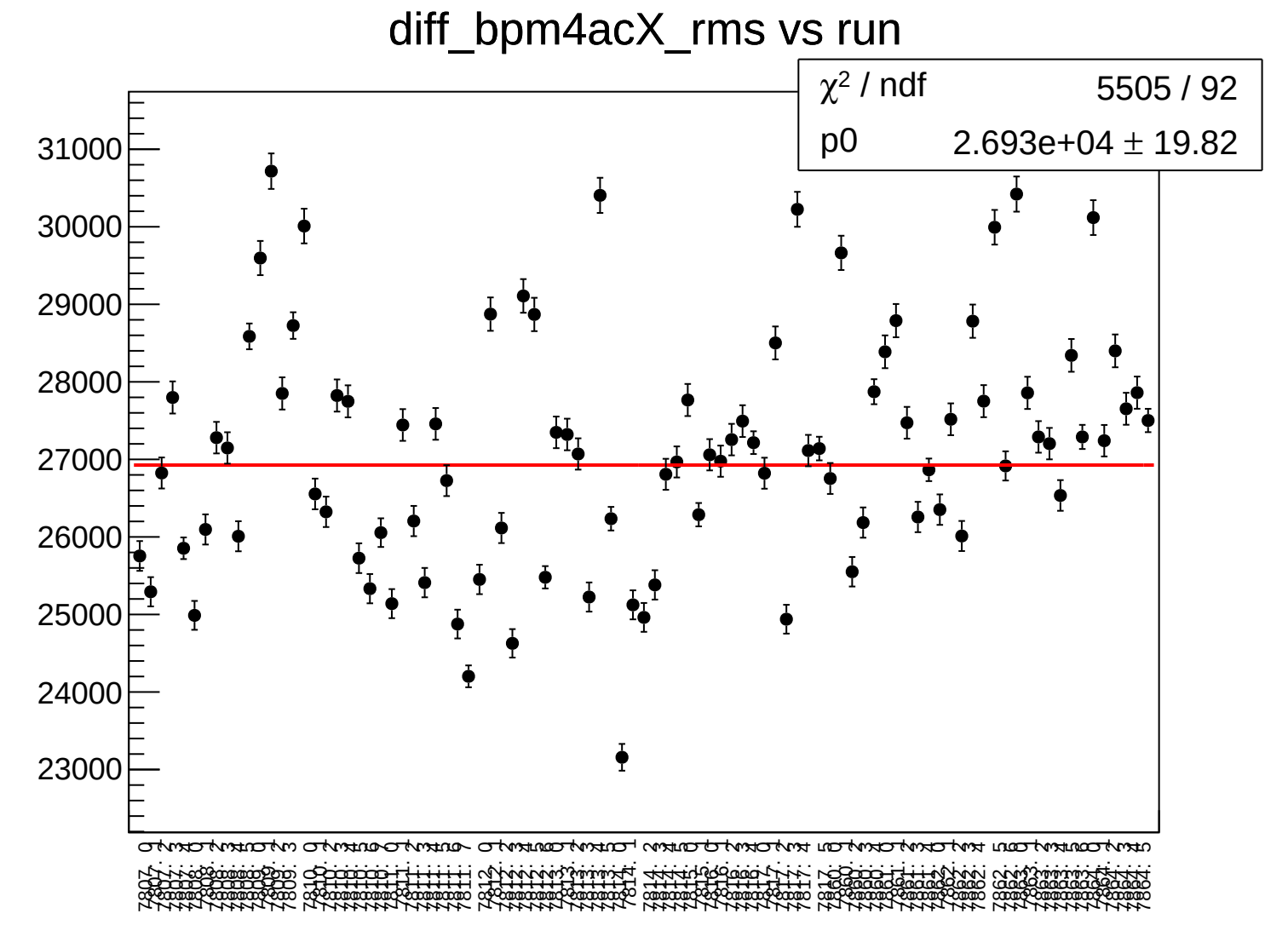

diff_bpm4eY_mean vs run
χ^2 / ndf 100.7 / 92
p0 1.825 ± 5.461
pull
Entries 93
Mean −21.74
Std Dev 0

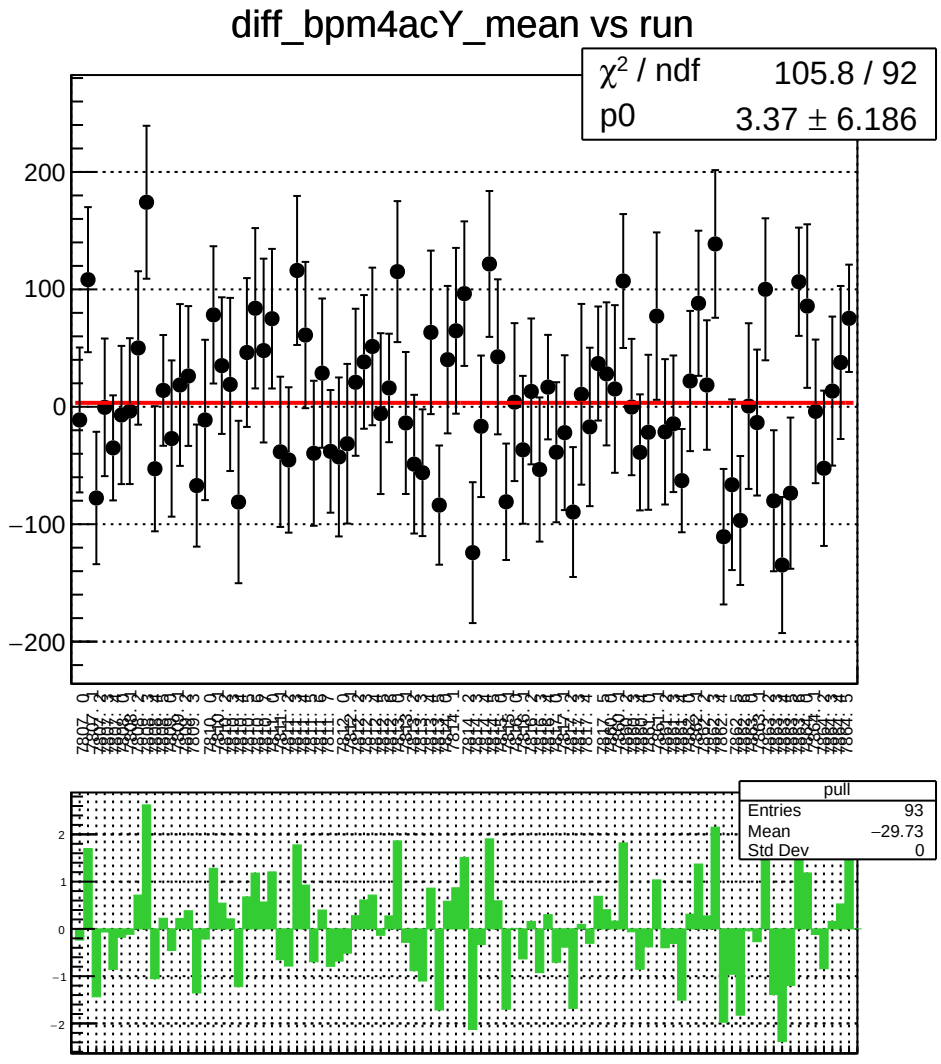

pull1D
Entries 93
Mean 0.0212
Std Dev 1.04

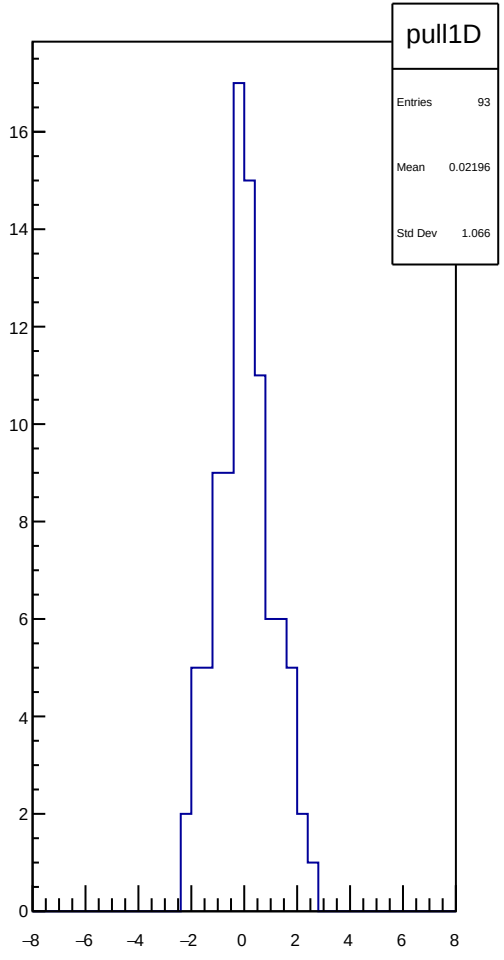

diff_bpm4eY_rms vs run
χ^2 / ndf 9695 / 92
p0 5240 ± 3.861
7000
6500
6000
5500
5000
4500

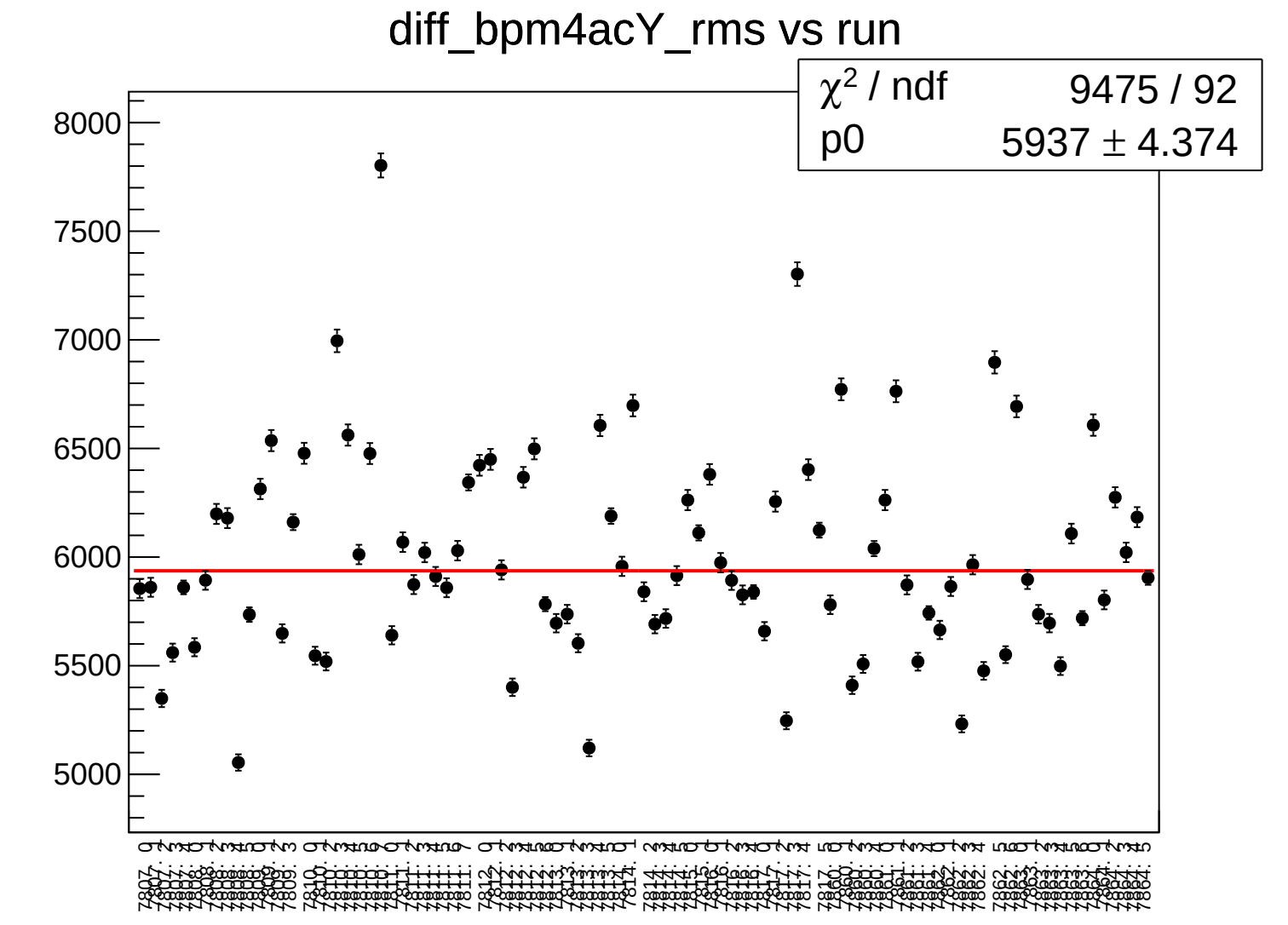

diff_bpm4acX_mean vs run
χ² / ndf 83.57 / 92
p0 −9.043 ± 28.03
1000
500
0
−500
−1000
pull
Entries 93
Mean −22.9
Std Dev 24.37
2
1
0
−1
−2

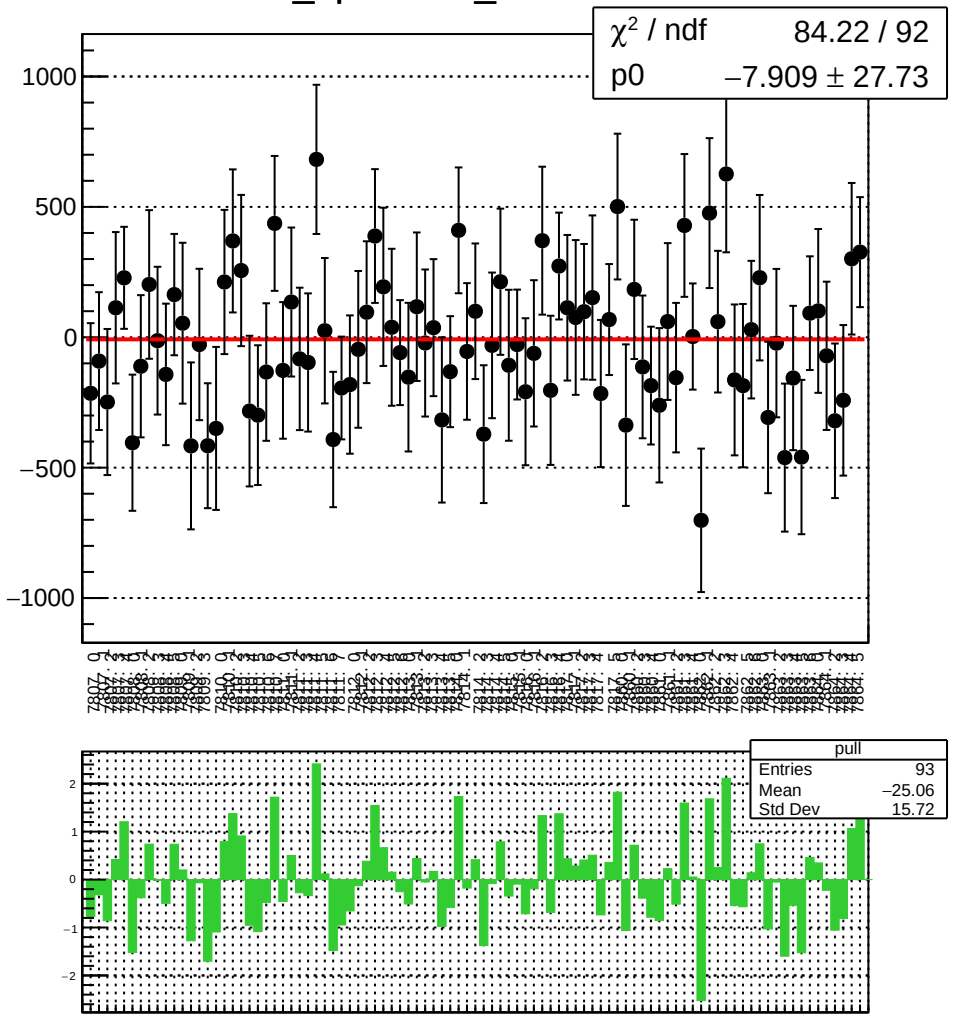

pull1D
Entries 93
Mean −0.0128
Std Dev 0.9478
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

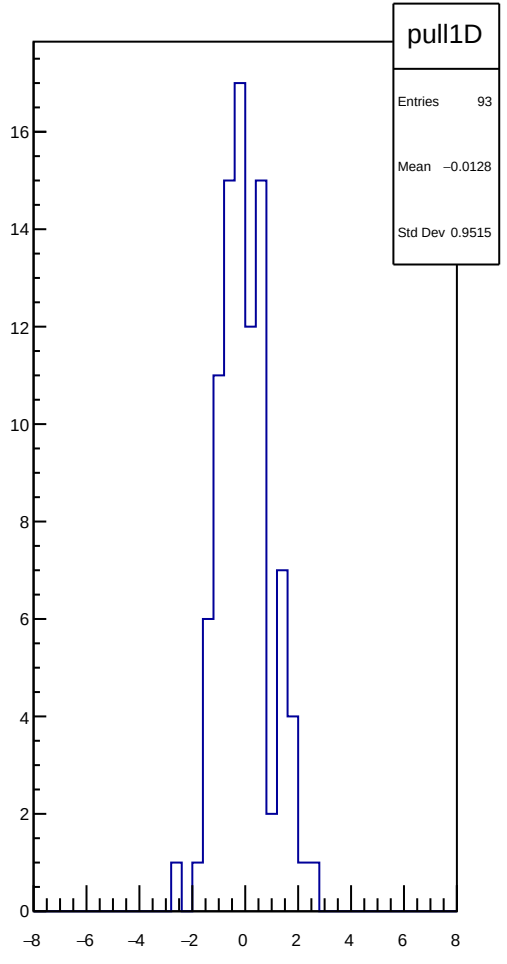

diff_bpm4acX_rms vs run
χ² / ndf 5505 / 92
p0 2.693e+04 ± 19.82
31000
30000
29000
28000
27000
26000
25000
24000
23000

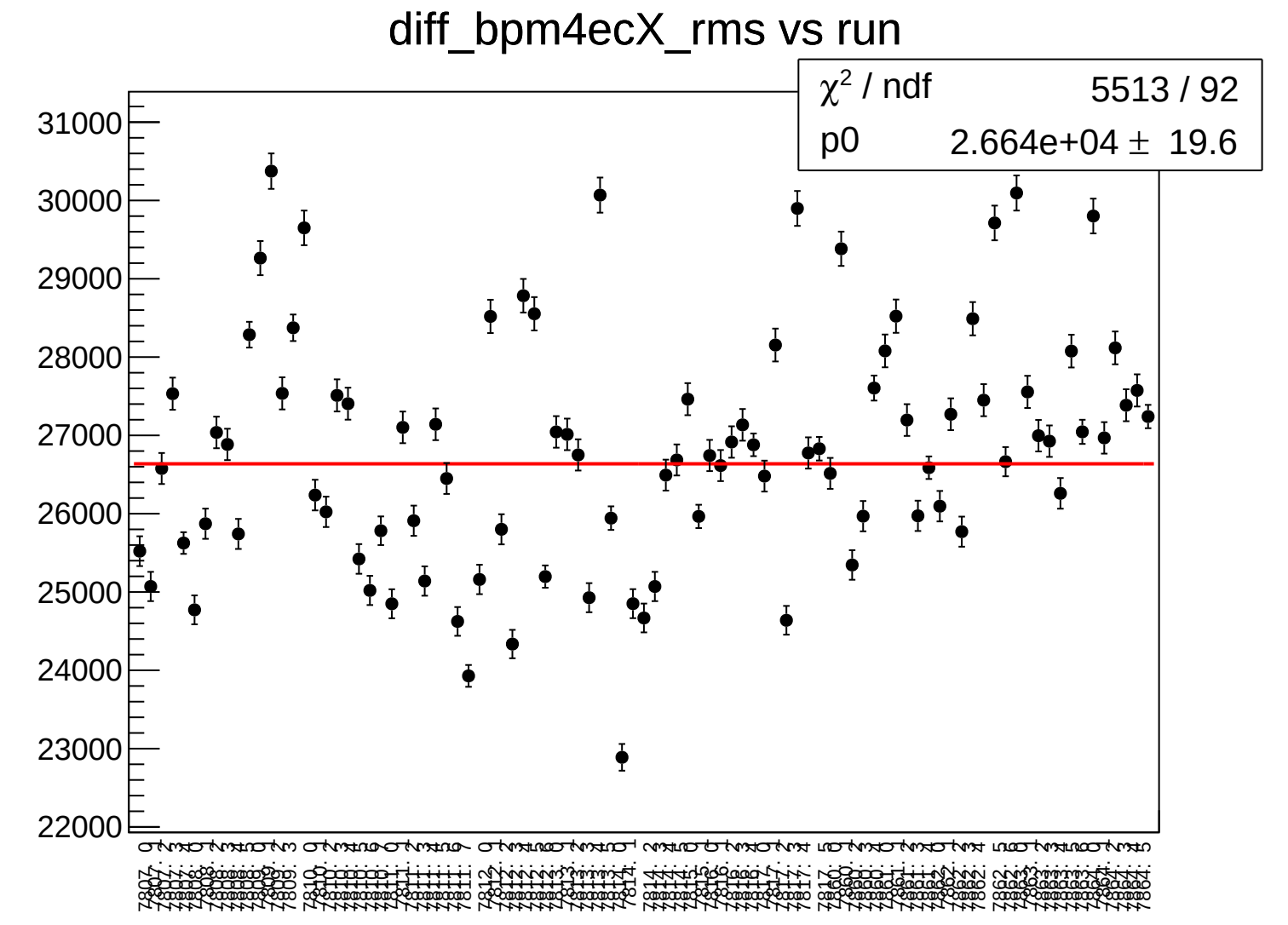

diff_bpm4acY_mean vs run
χ² / ndf 105.8 / 92
p0 3.37 ± 6.186
200
100
0
−100
−200
pull
Entries 93
Mean −29.73
Std Dev 0
2
1
0
−1
−2

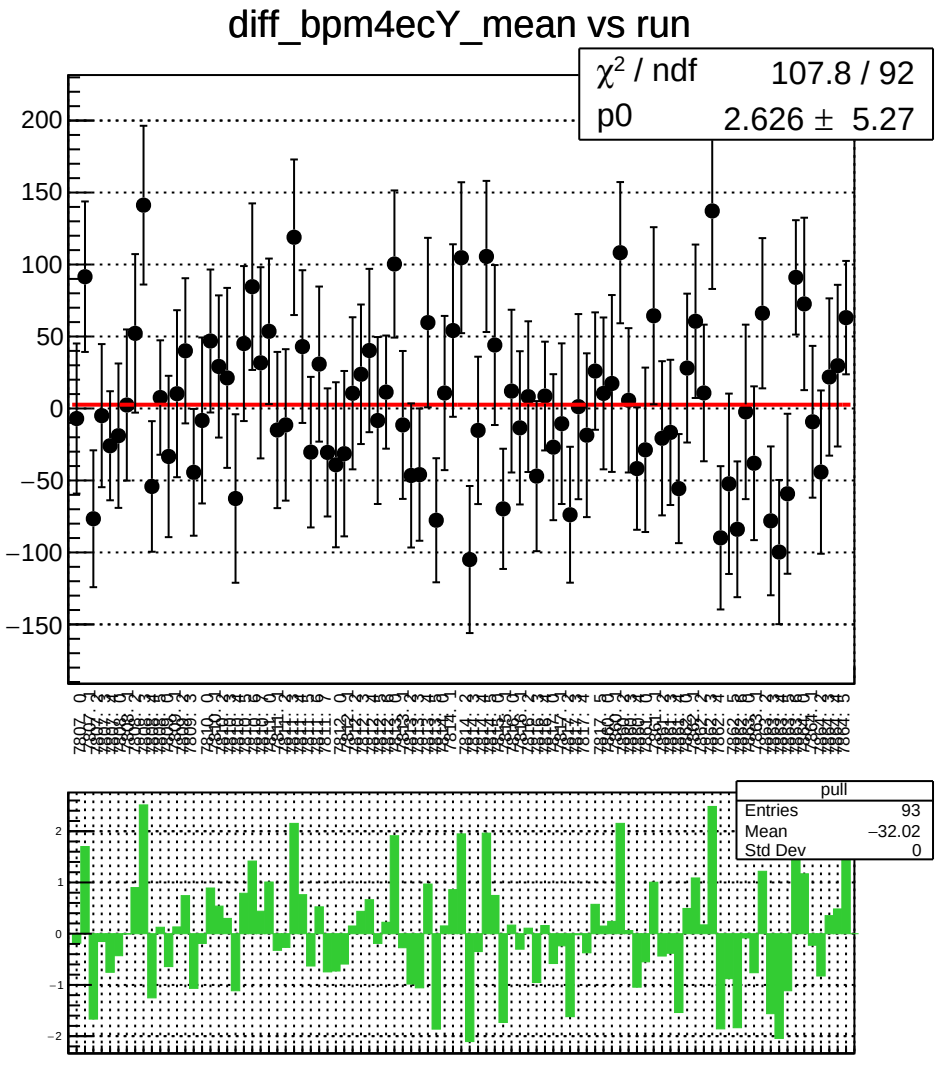

pull1D
Entries 93
Mean 0.02196
Std Dev 1.066
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

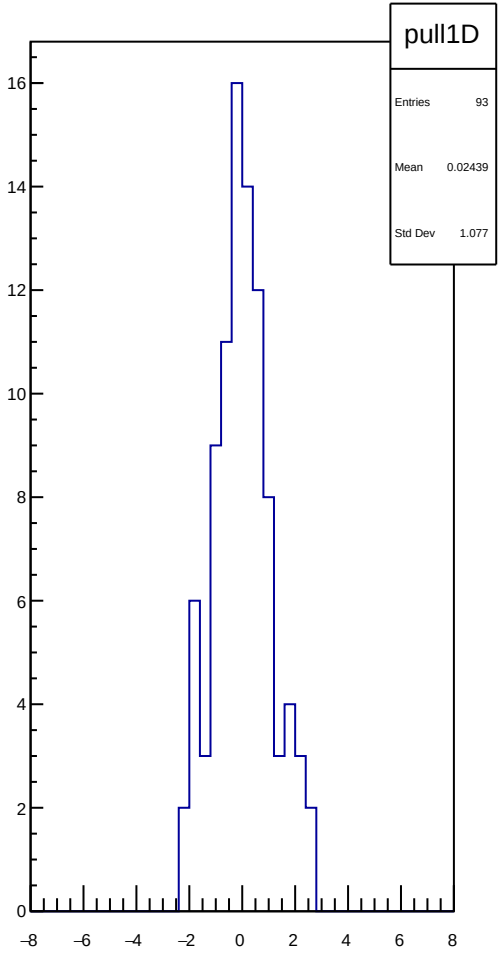

diff_bpm4acY_rms vs run
χ² / ndf 9475 / 92
p0 5937 ± 4.374
8000
7500
7000
6500
6000
5500
5000

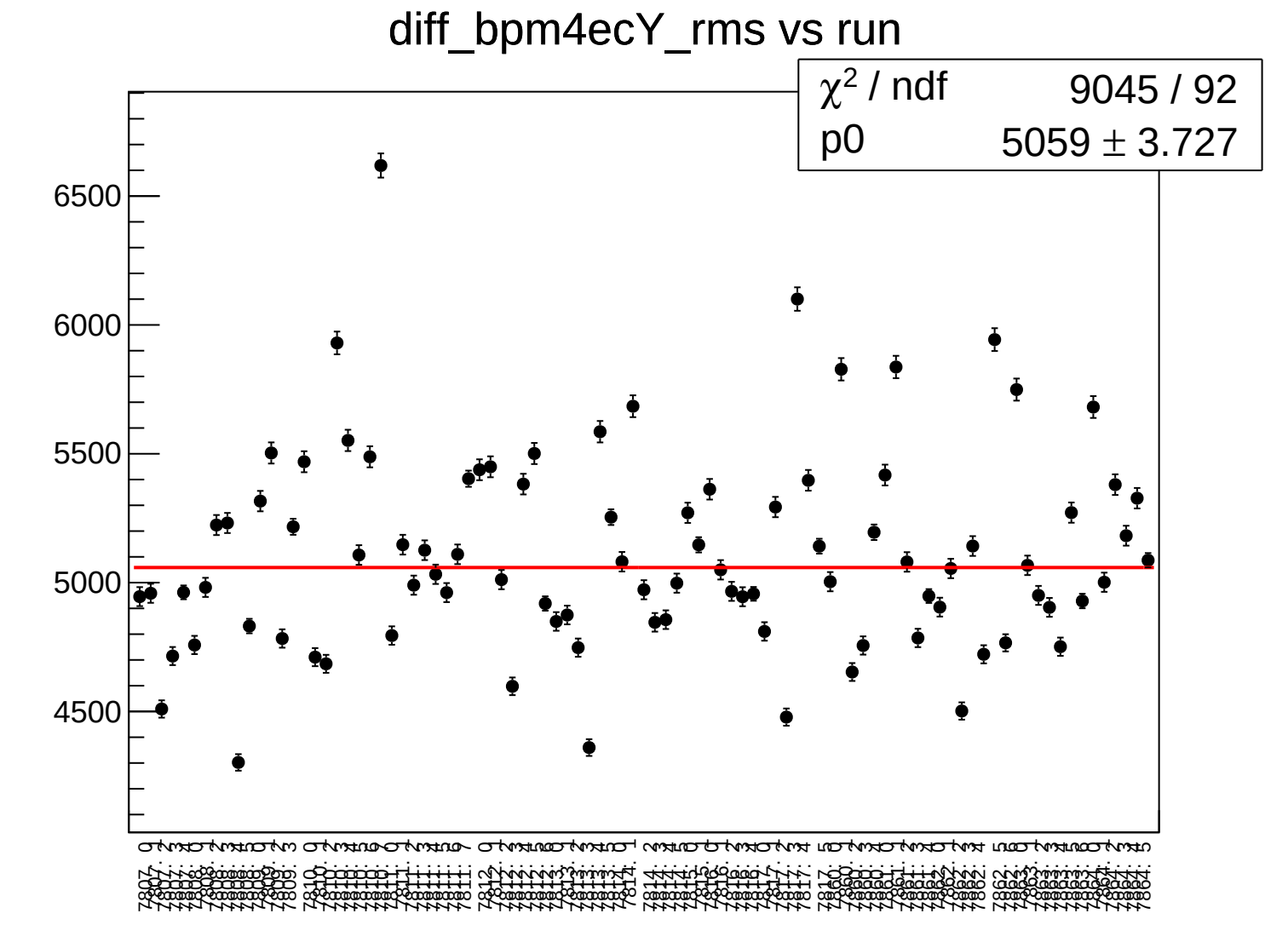

diff_bpm4ecX_mean vs run
χ² / ndf 84.22 / 92
p0 −7.909 ± 27.73
1000
500
0
−500
−1000
pull
Entries 93
Mean −25.06
Std Dev 15.72
2
1
0
−1
−2

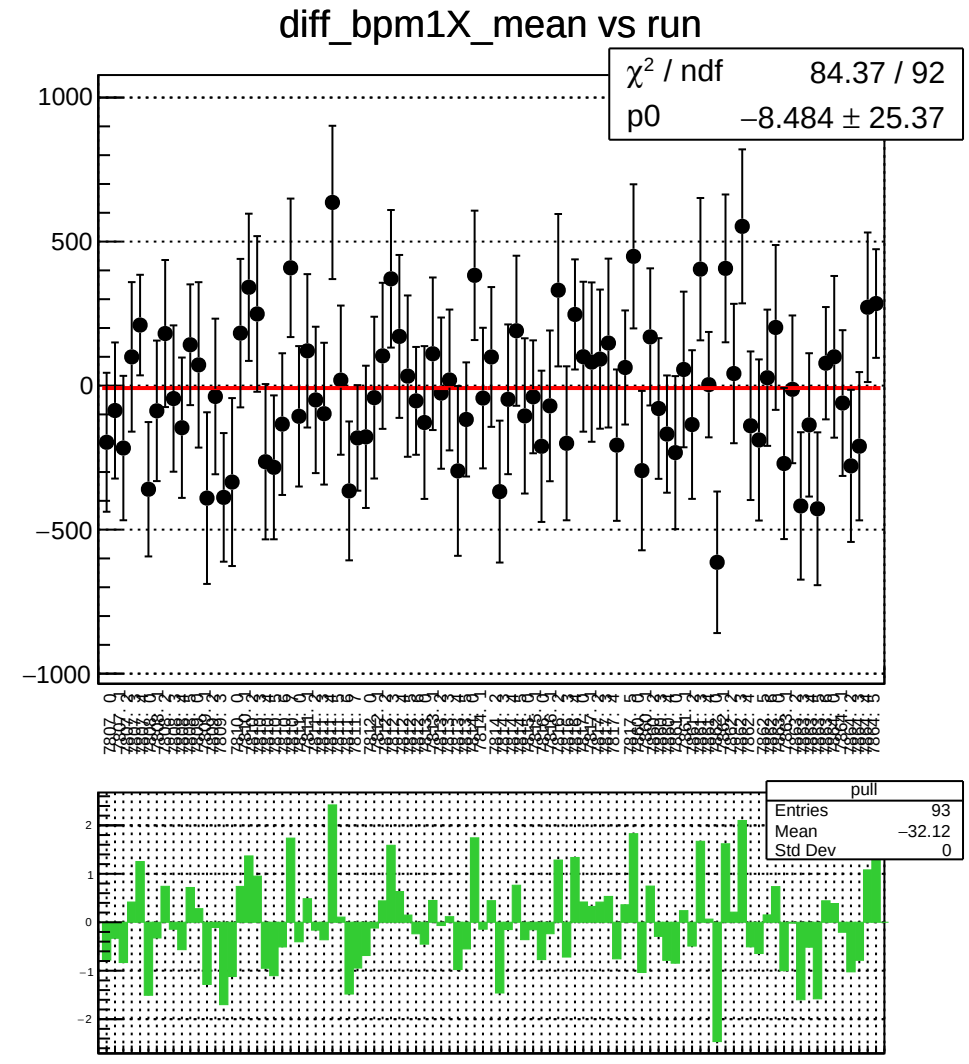

pull1D
Entries 93
Mean −0.0128
Std Dev 0.9515
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

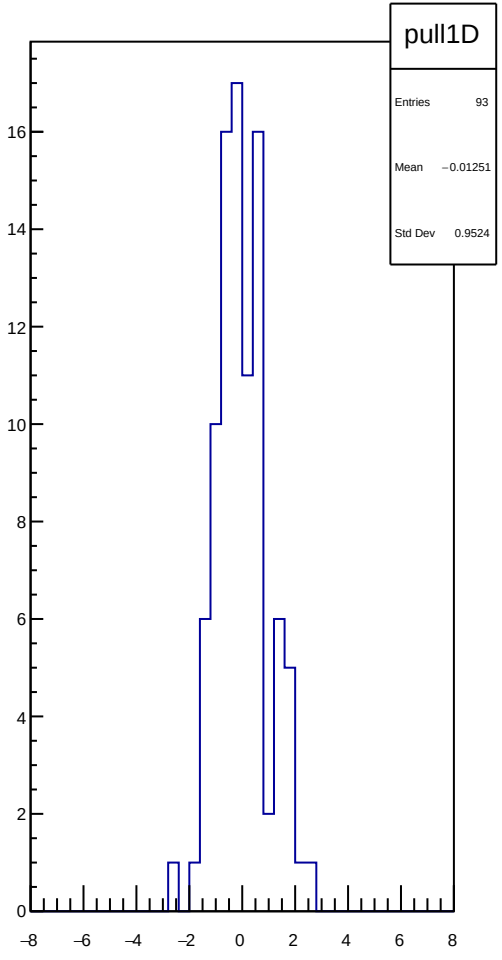

diff_bpm4ecX_rms vs run
χ² / ndf 5513 / 92
p0 2.664e+04 ± 19.6
31000
30000
29000
28000
27000
26000
25000
24000
23000
22000

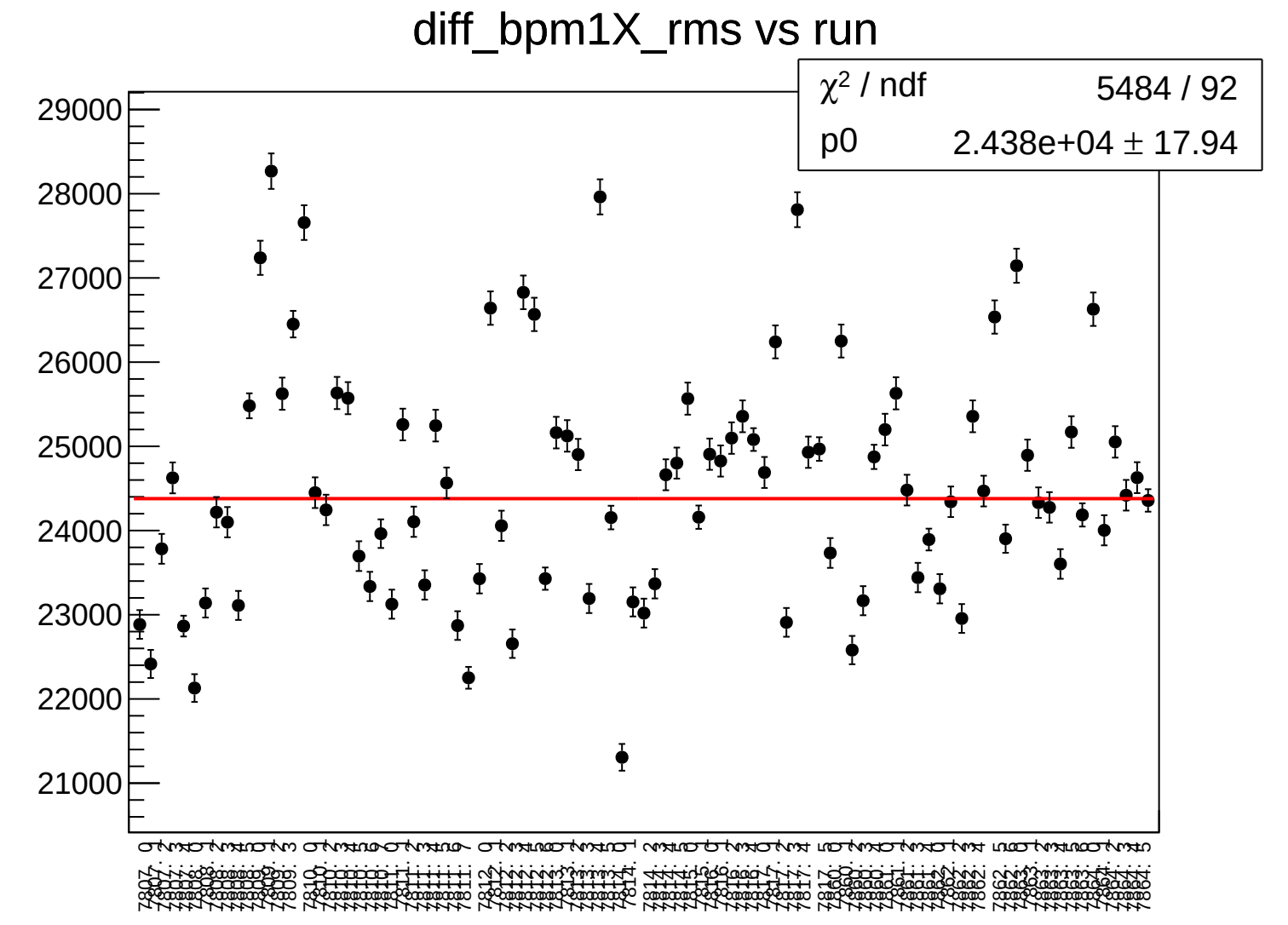

diff_bpm4ecY_mean vs run
χ² / ndf 107.8 / 92
p0 2.626 ± 5.27
200
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean −32.02
Std Dev 0
2
1
0
−1
−2

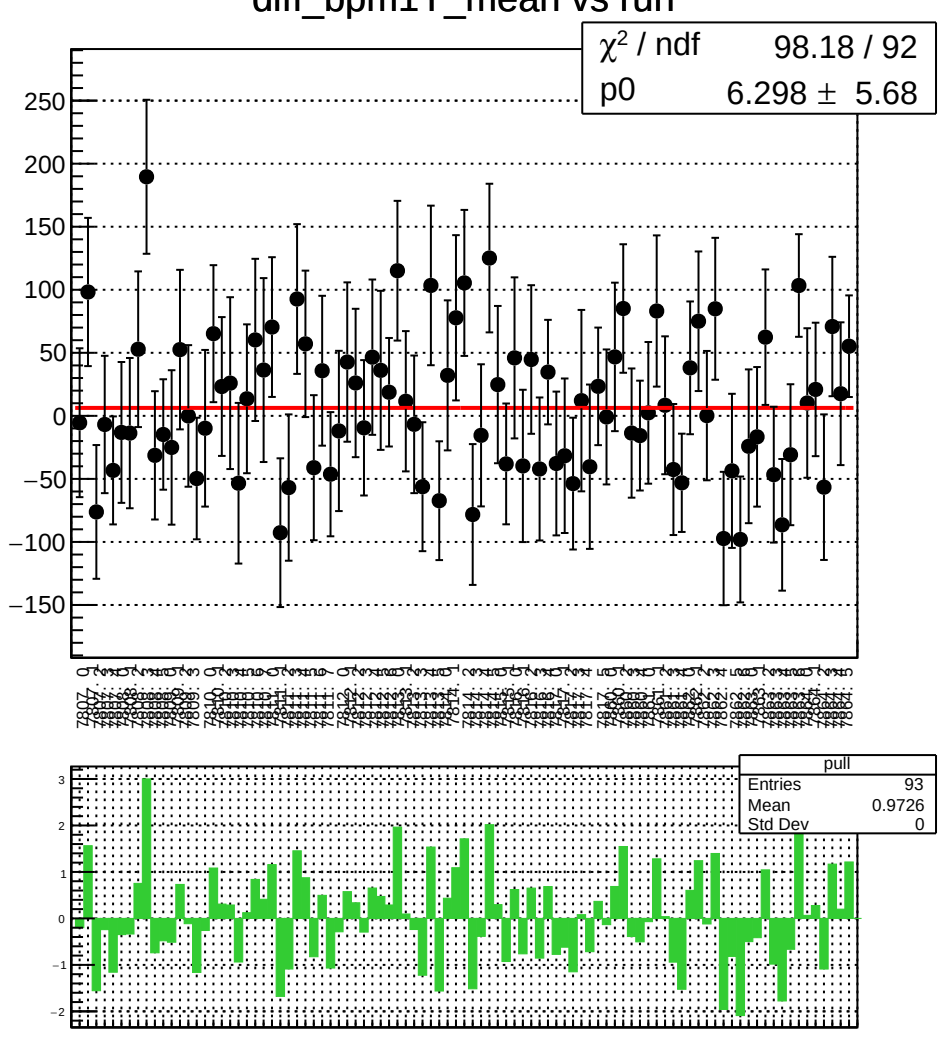

pull1D
Entries 93
Mean 0.02439
Std Dev 1.077
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

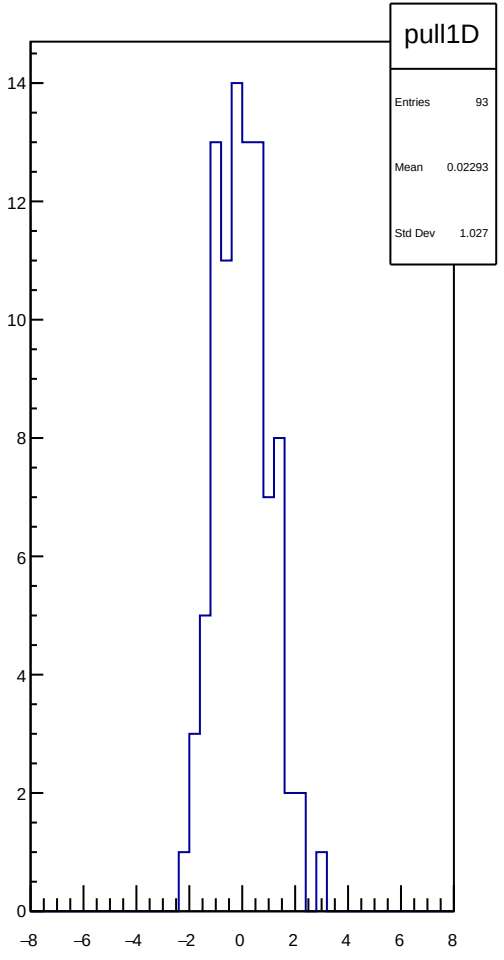

diff_bpm4ecY_rms vs run
χ² / ndf 9045 / 92
p0 5059 ± 3.727
6500
6000
5500
5000
4500

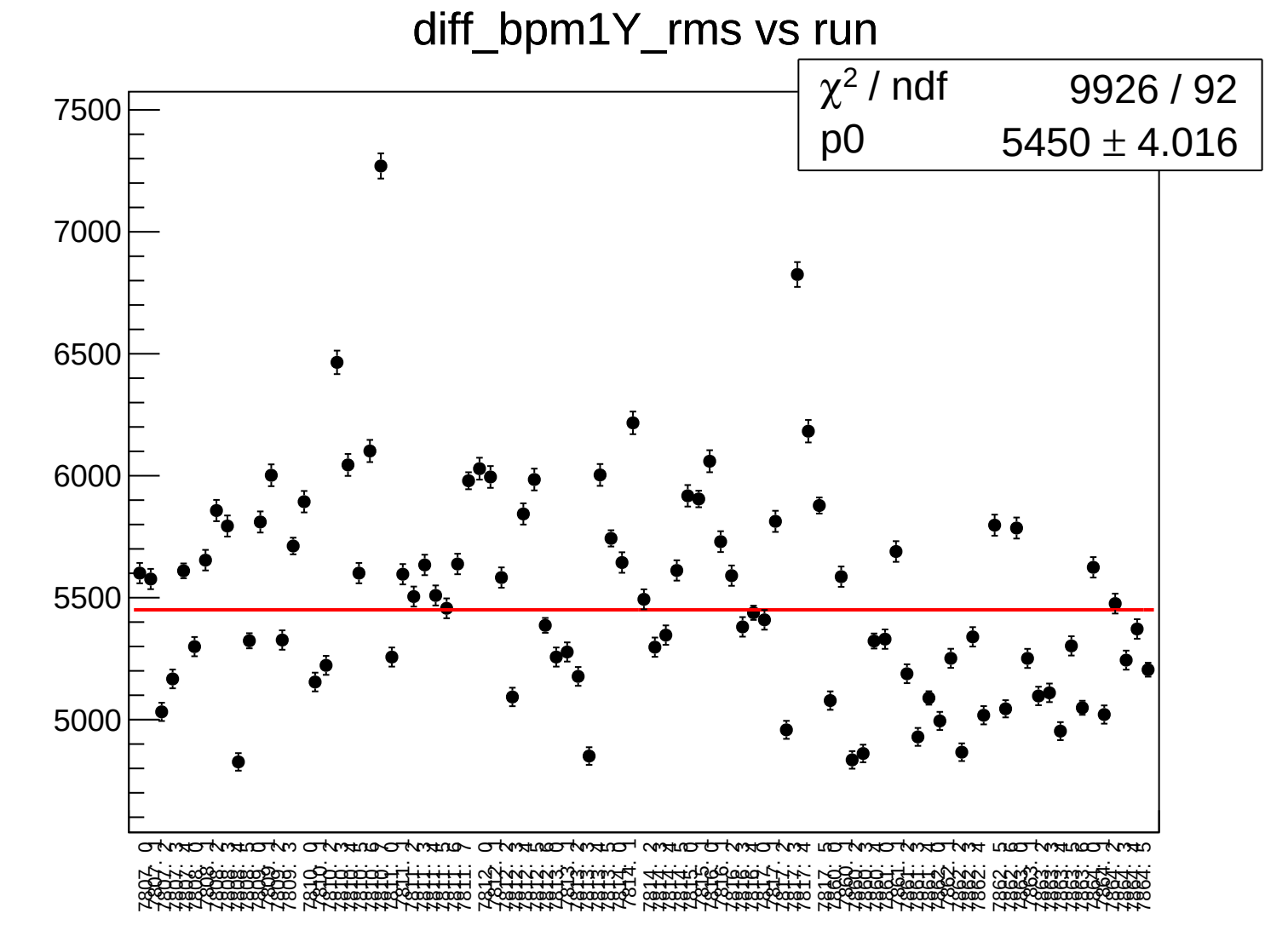

diff_bpm1X_mean vs run
χ² / ndf 84.37 / 92
p0 −8.484 ± 25.37
1000
500
0
−500
−1000
pull
Entries 93
Mean −32.12
Std Dev 0
2
1
0
−1
−2

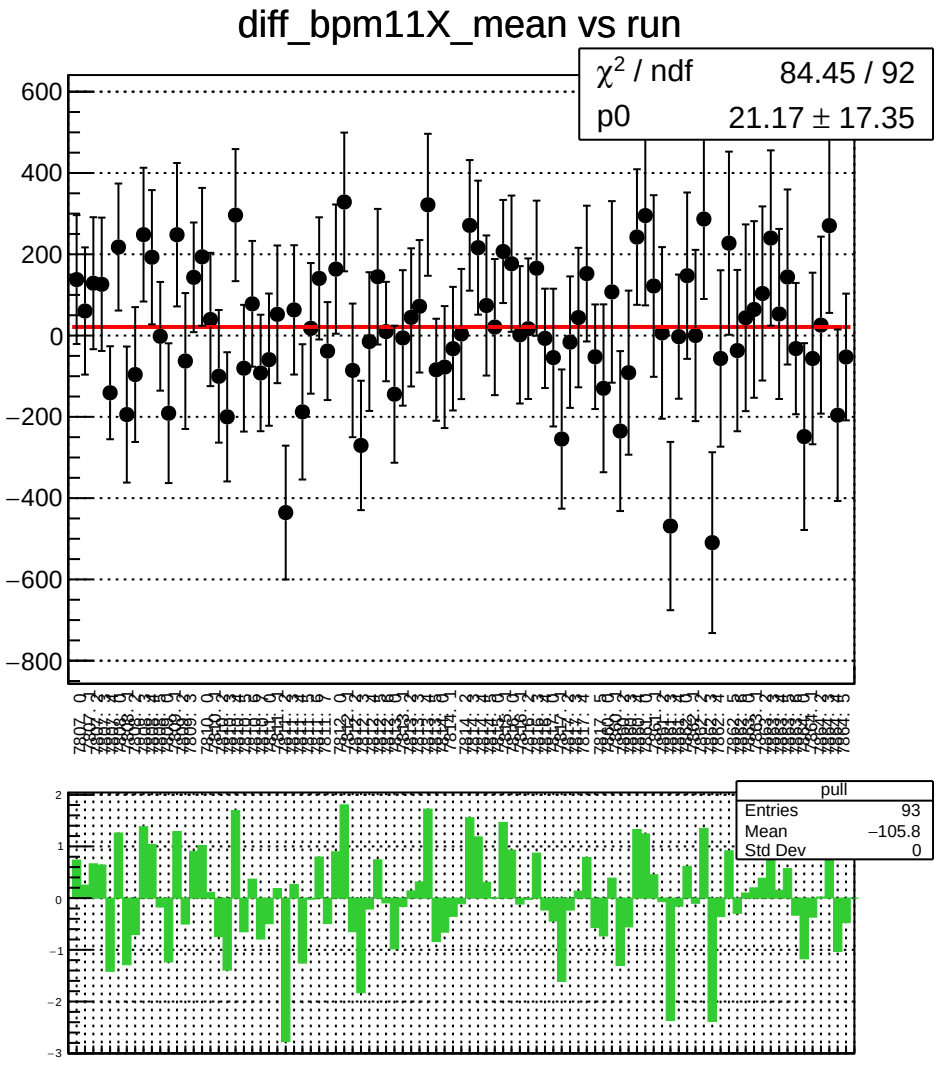

pull1D
Entries 93
Mean −0.01251
Std Dev 0.9524
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

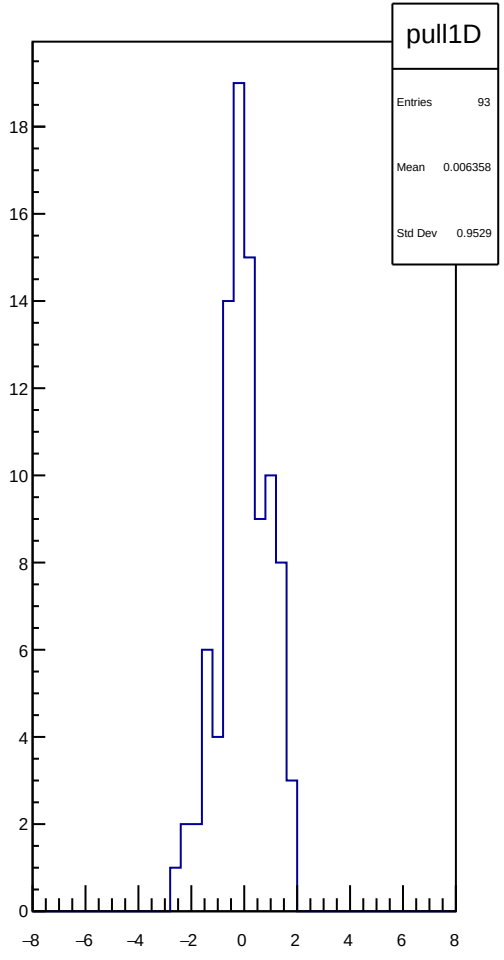

diff_bpm1X_rms vs run
χ² / ndf 5484 / 92
p0 2.438e+04 ± 17.94
29000
28000
27000
26000
25000
24000
23000
22000
21000

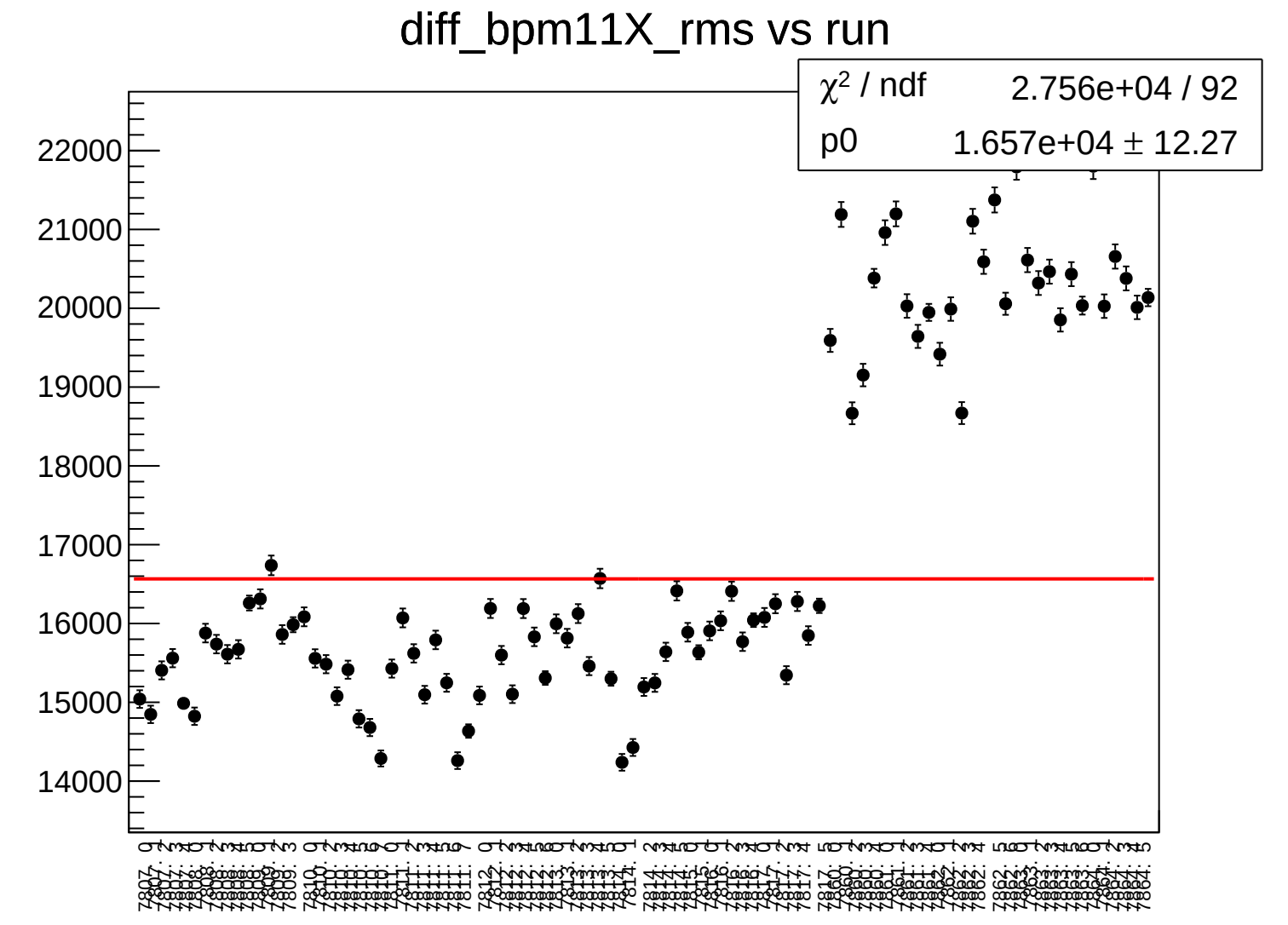

diff_bpm1Y_mean vs run
χ² / ndf 98.18 / 92
p0 6.298 ± 5.68
pull
Entries 93
Mean 0.9726
Std Dev 0

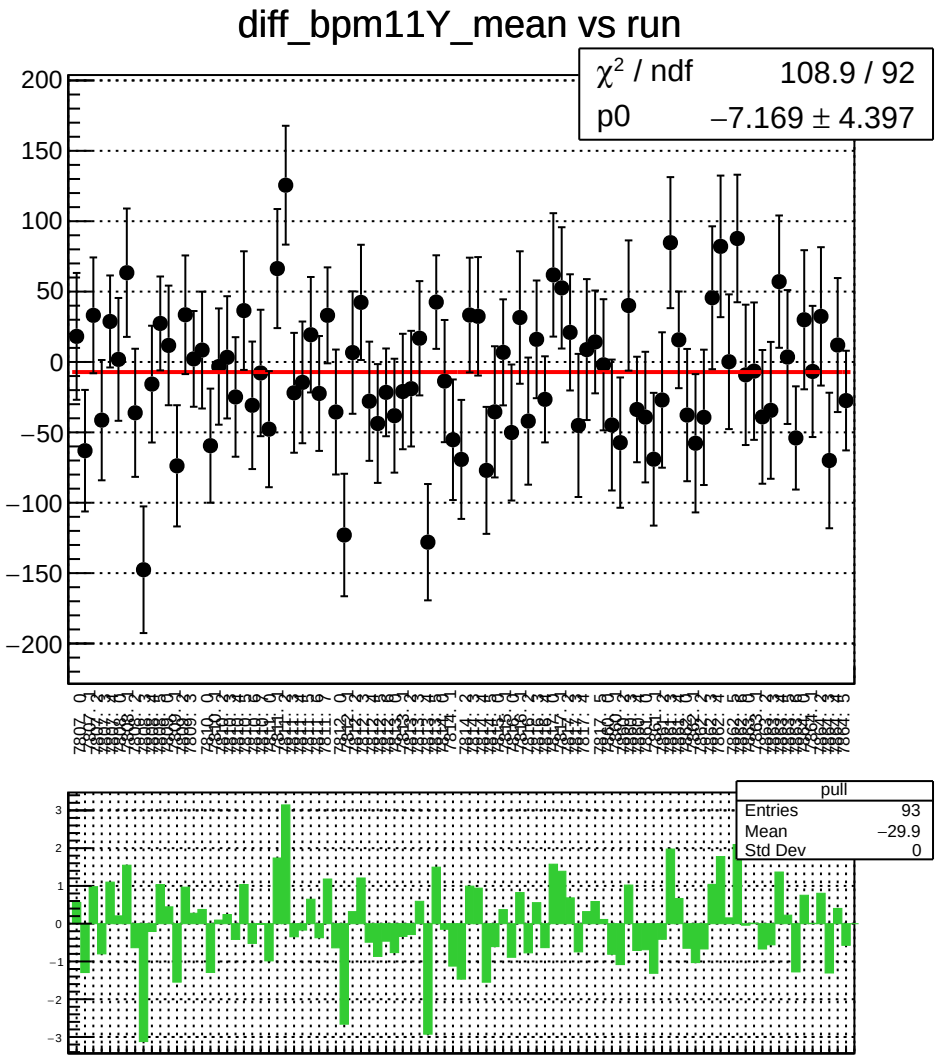

pull1D
Entries 93
Mean 0.02293
Std Dev 1.027

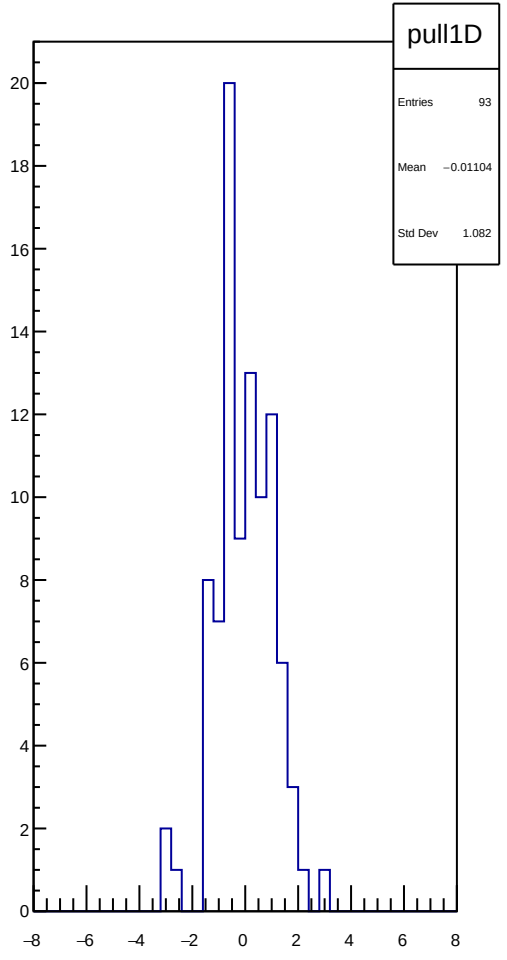

diff_bpm1Y_rms vs run
χ^2 / ndf 9926 / 92
p0 5450 ± 4.016
7500
7000
6500
6000
5500
5000

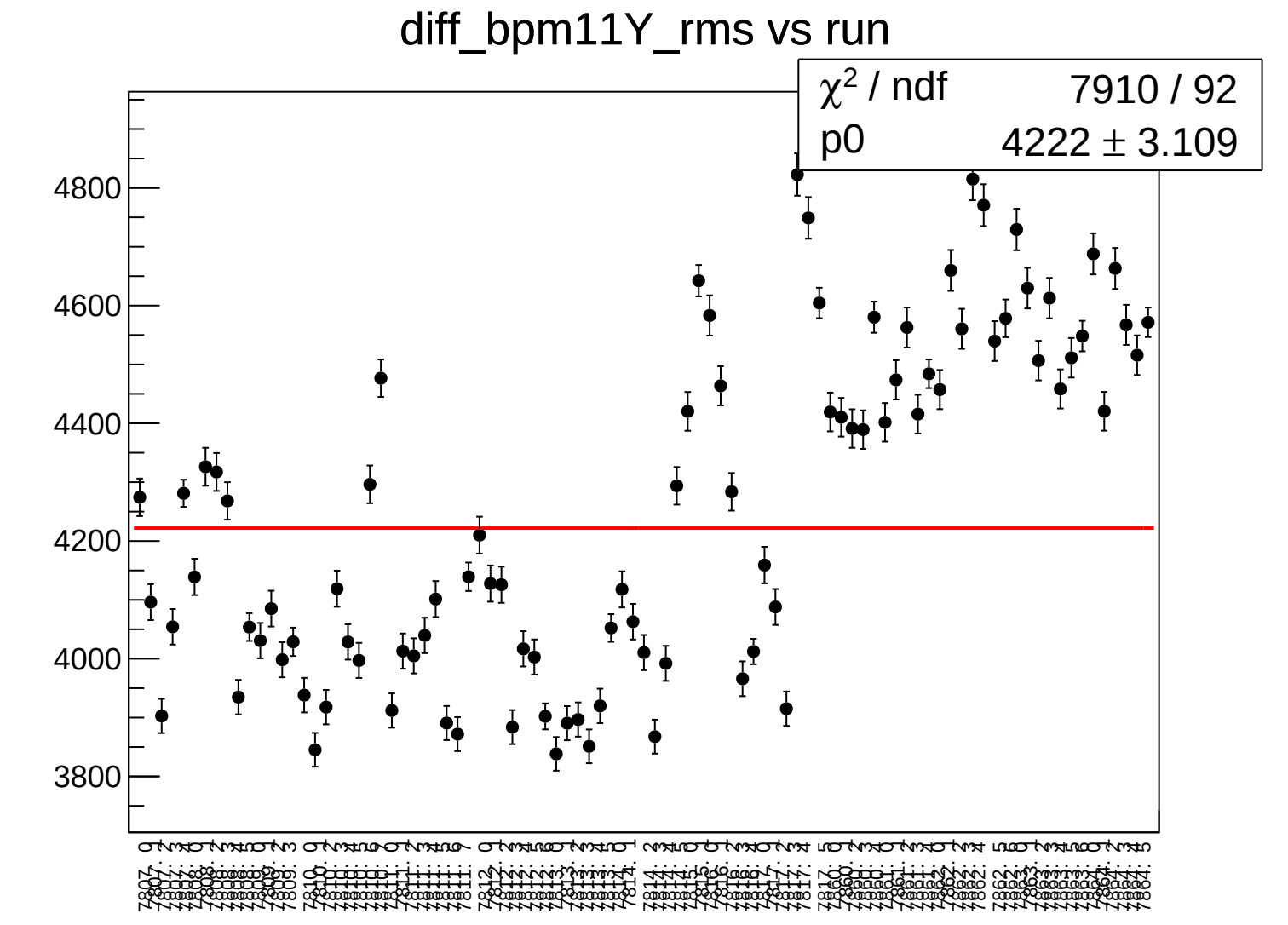

diff_bpm11X_mean vs run
χ² / ndf 84.45 / 92
p0 21.17 ± 17.35
pull
Entries 93
Mean −105.8
Std Dev 0

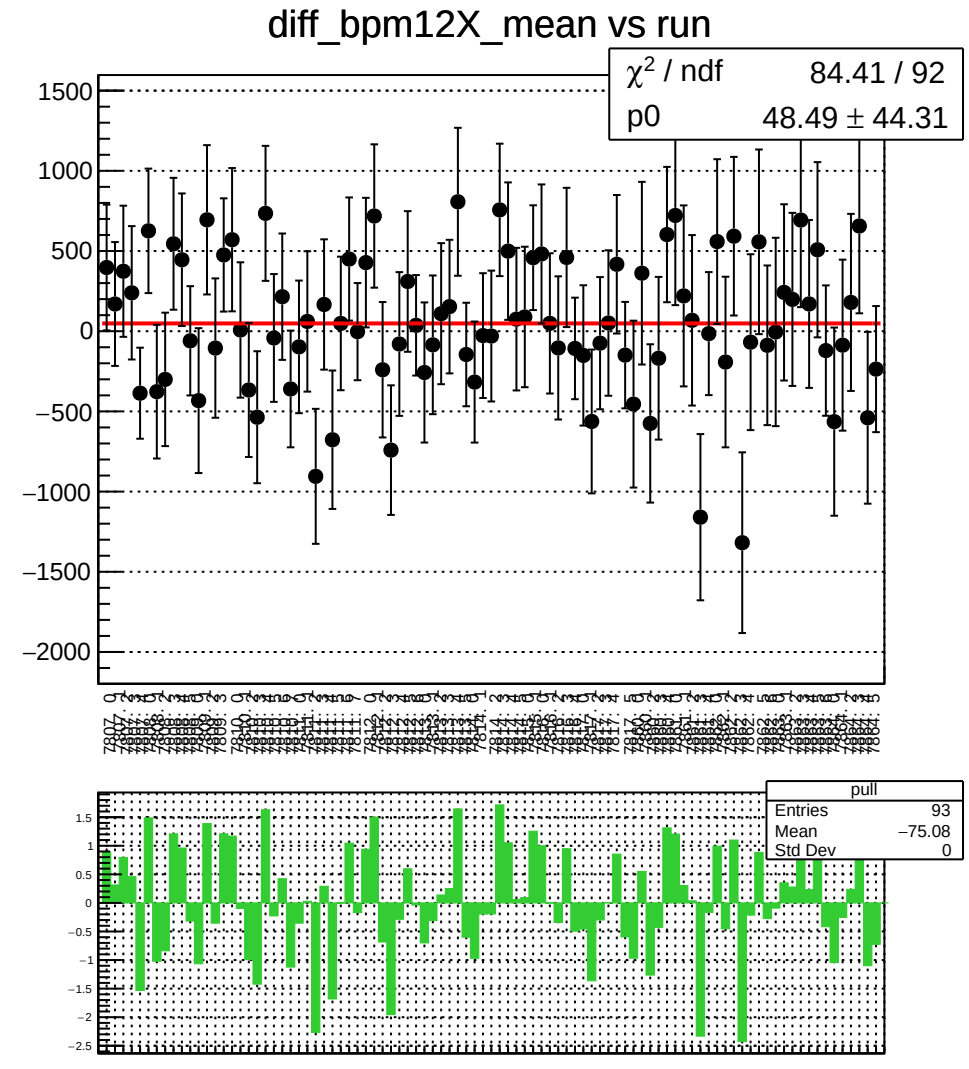

pull1D
Entries 93
Mean 0.006358
Std Dev 0.9529

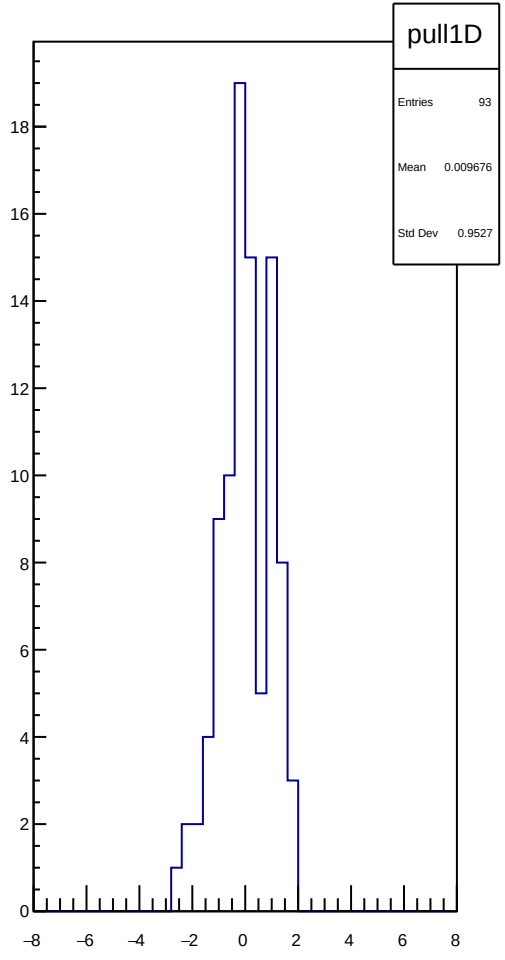

diff_bpm11X_rms vs run
χ² / ndf 2.756e+04 / 92
p0 1.657e+04 ± 12.27
22000
21000
20000
19000
18000
17000
16000
15000
14000

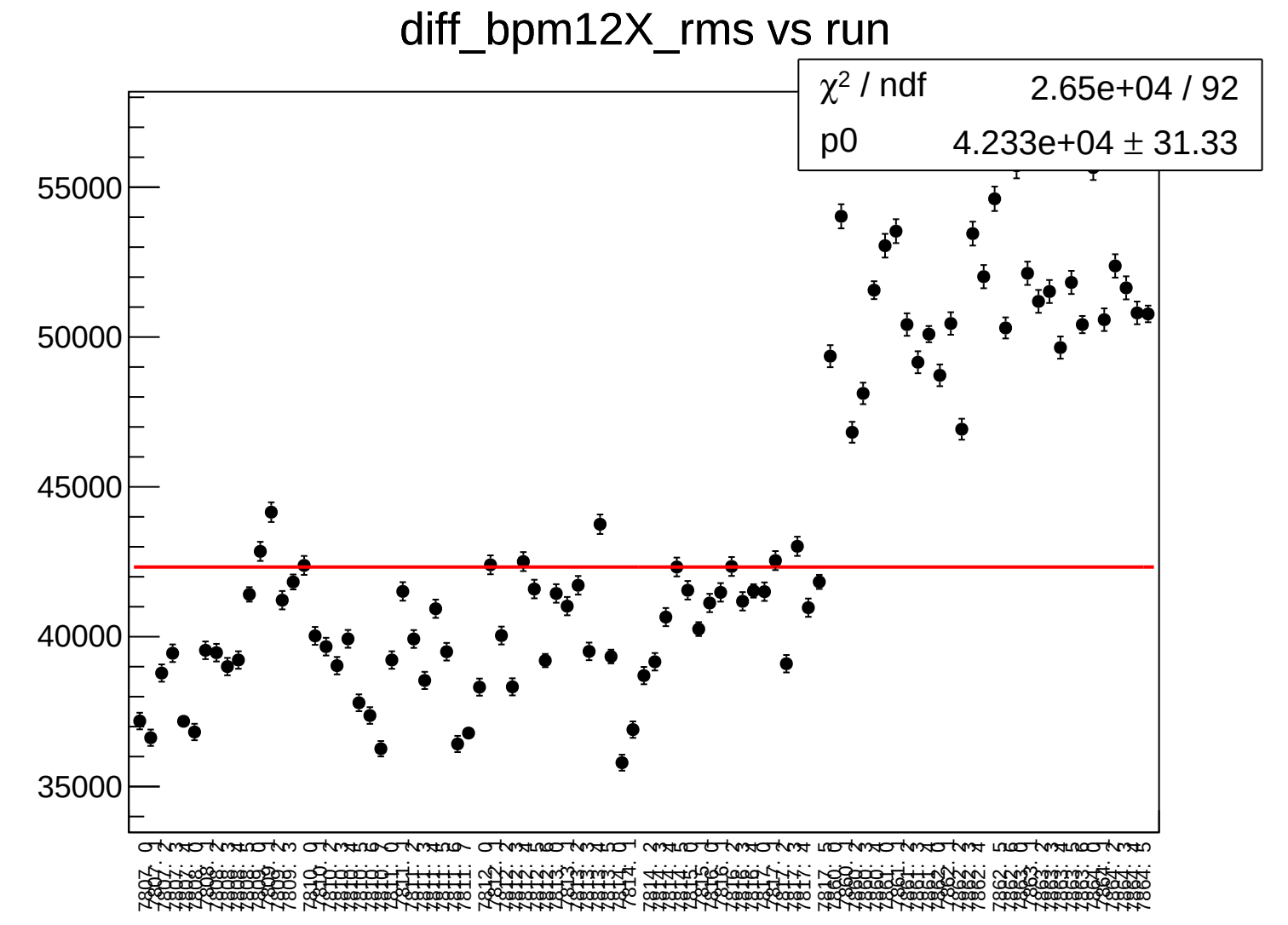

diff_bpm11Y_mean vs run
χ² / ndf 108.9 / 92
p0 −7.169 ± 4.397
pull
Entries 93
Mean −29.9
Std Dev 0

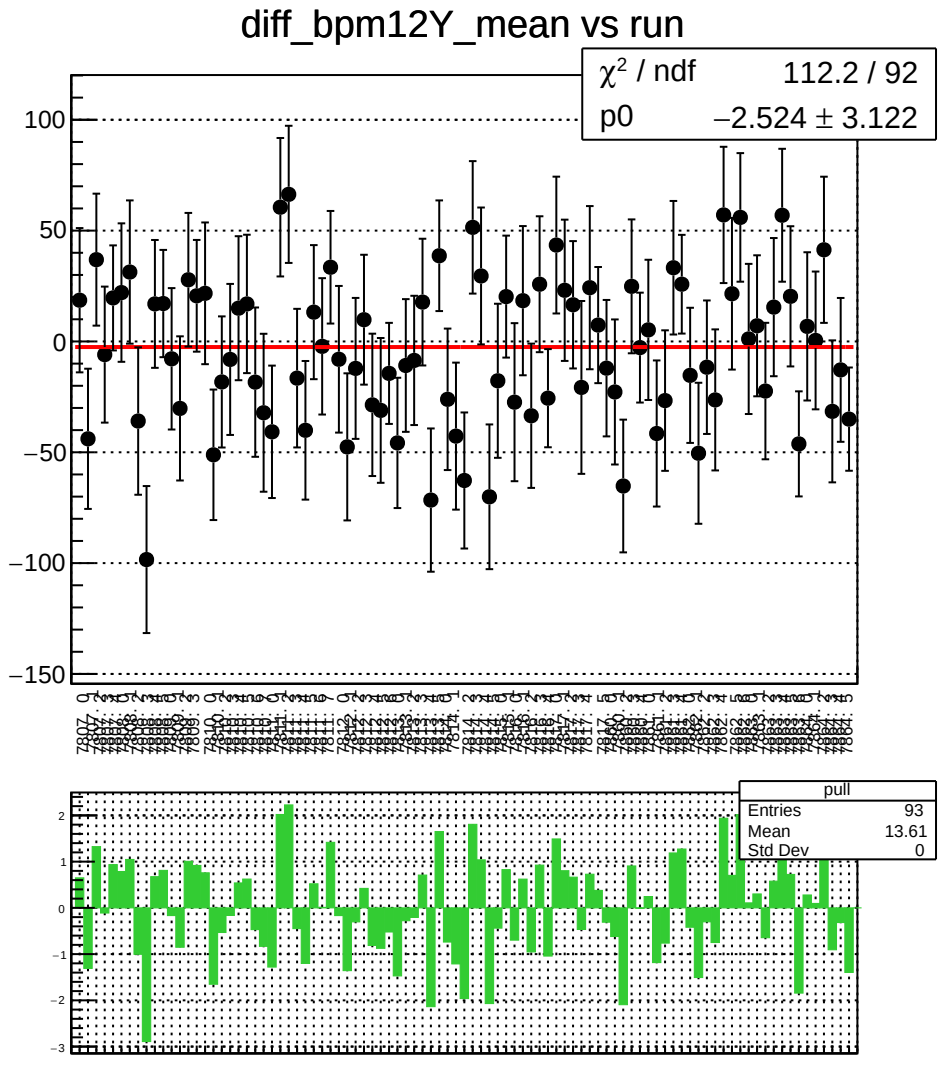

pull1D
Entries 93
Mean −0.01104
Std Dev 1.082

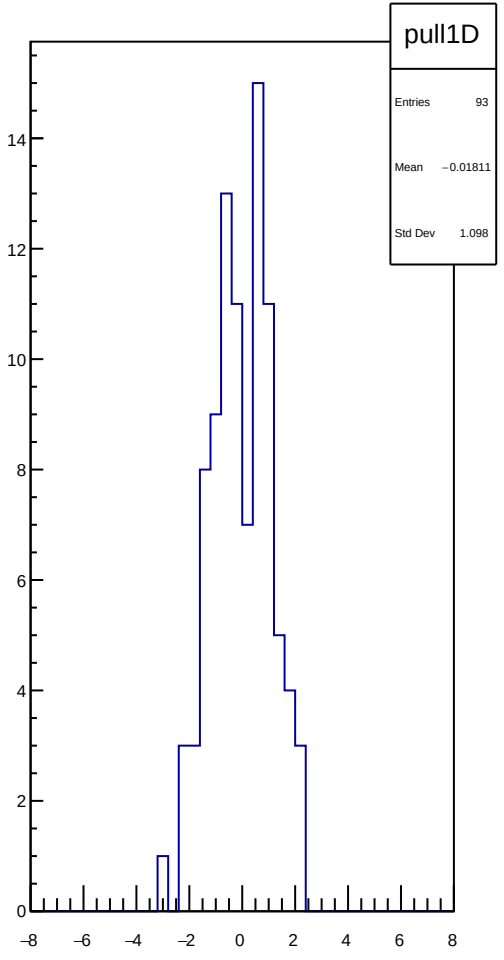

diff_bpm11Y_rms vs run
χ² / ndf 7910 / 92
p0 4222 ± 3.109
4800
4600
4400
4200
4000
3800

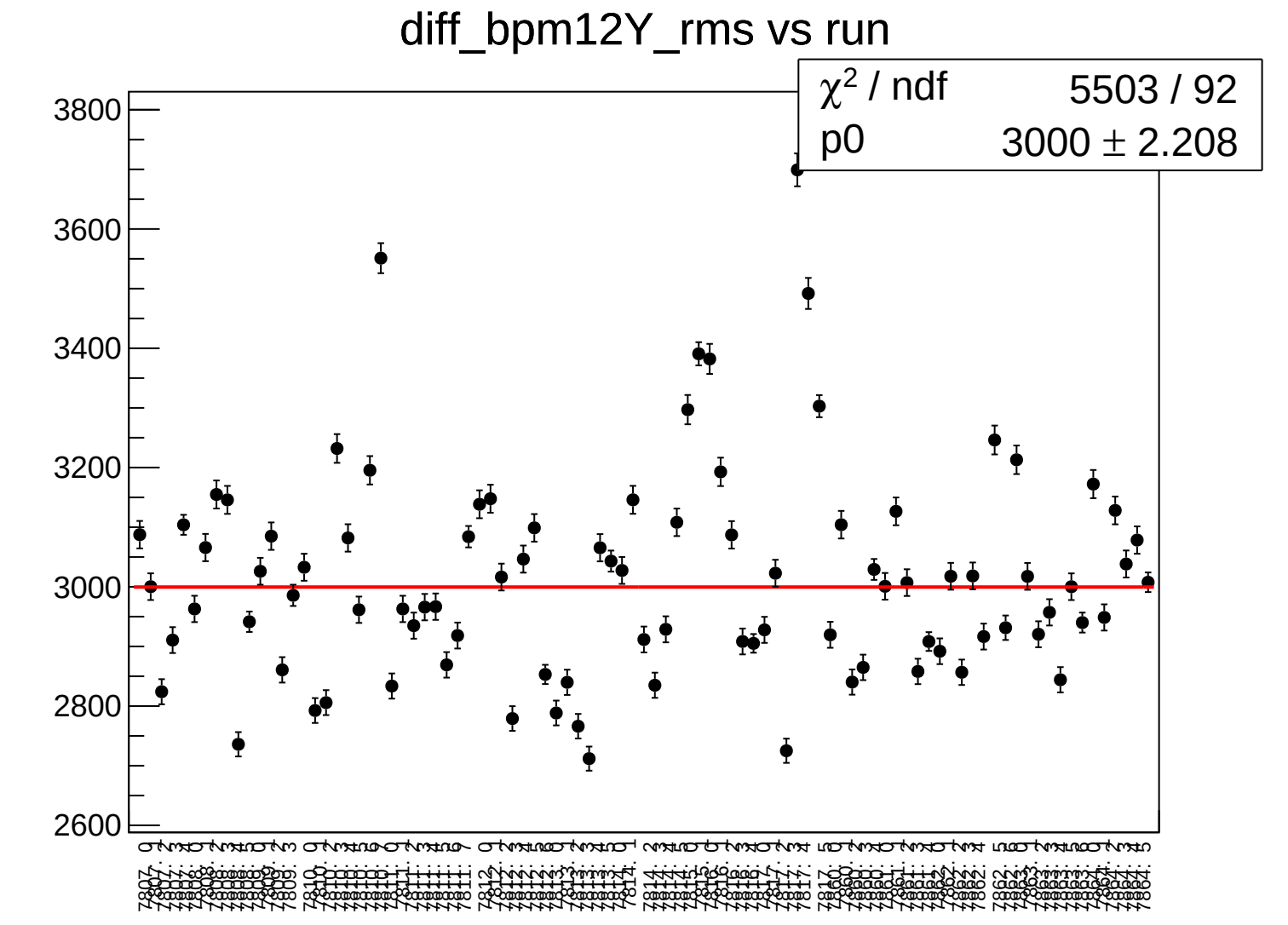

diff_bpm12X_mean vs run
χ² / ndf 84.41 / 92
p0 48.49 ± 44.31
pull
Entries 93
Mean −75.08
Std Dev 0

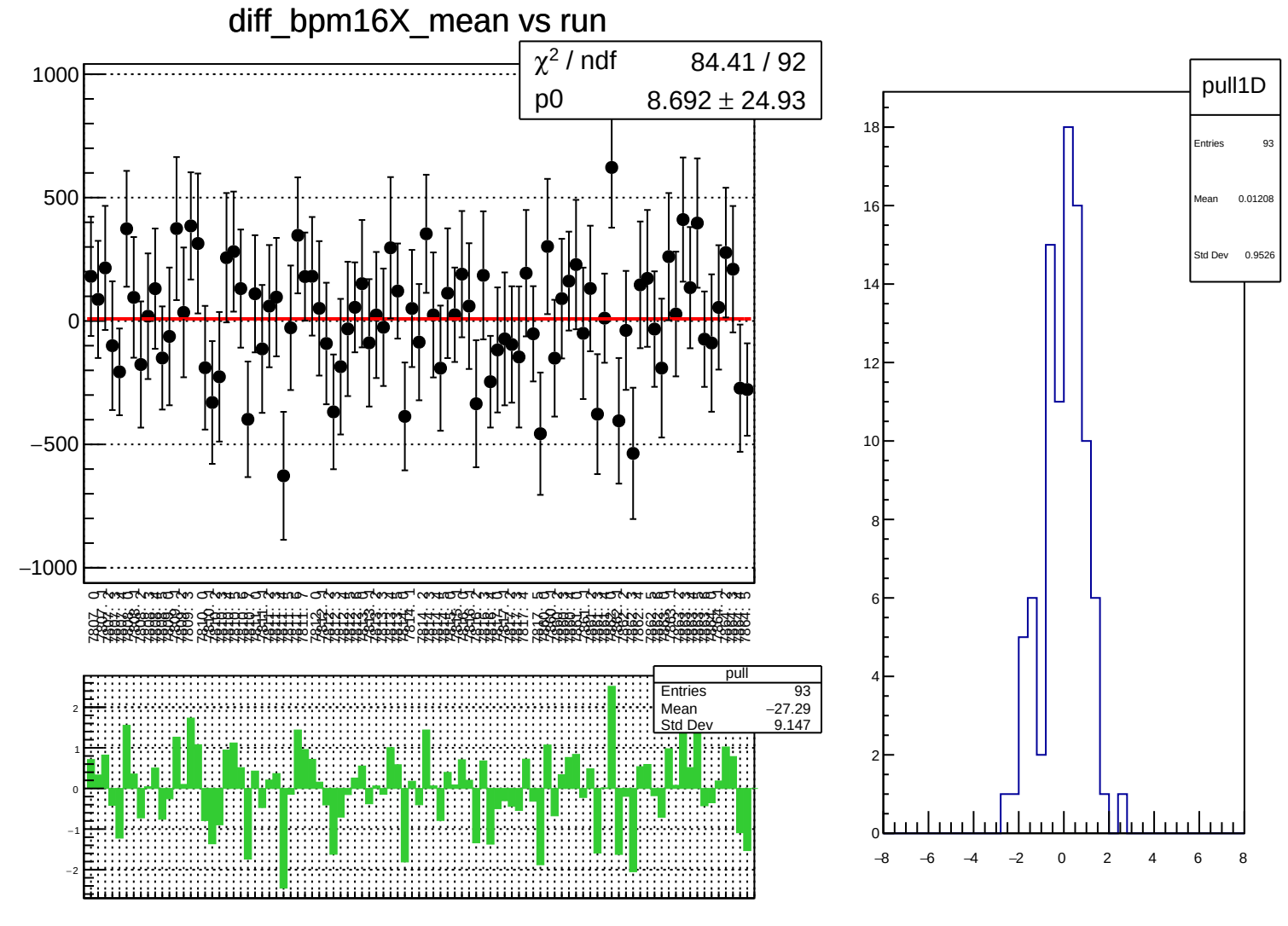

pull1D
Entries 93
Mean 0.009676
Std Dev 0.9527

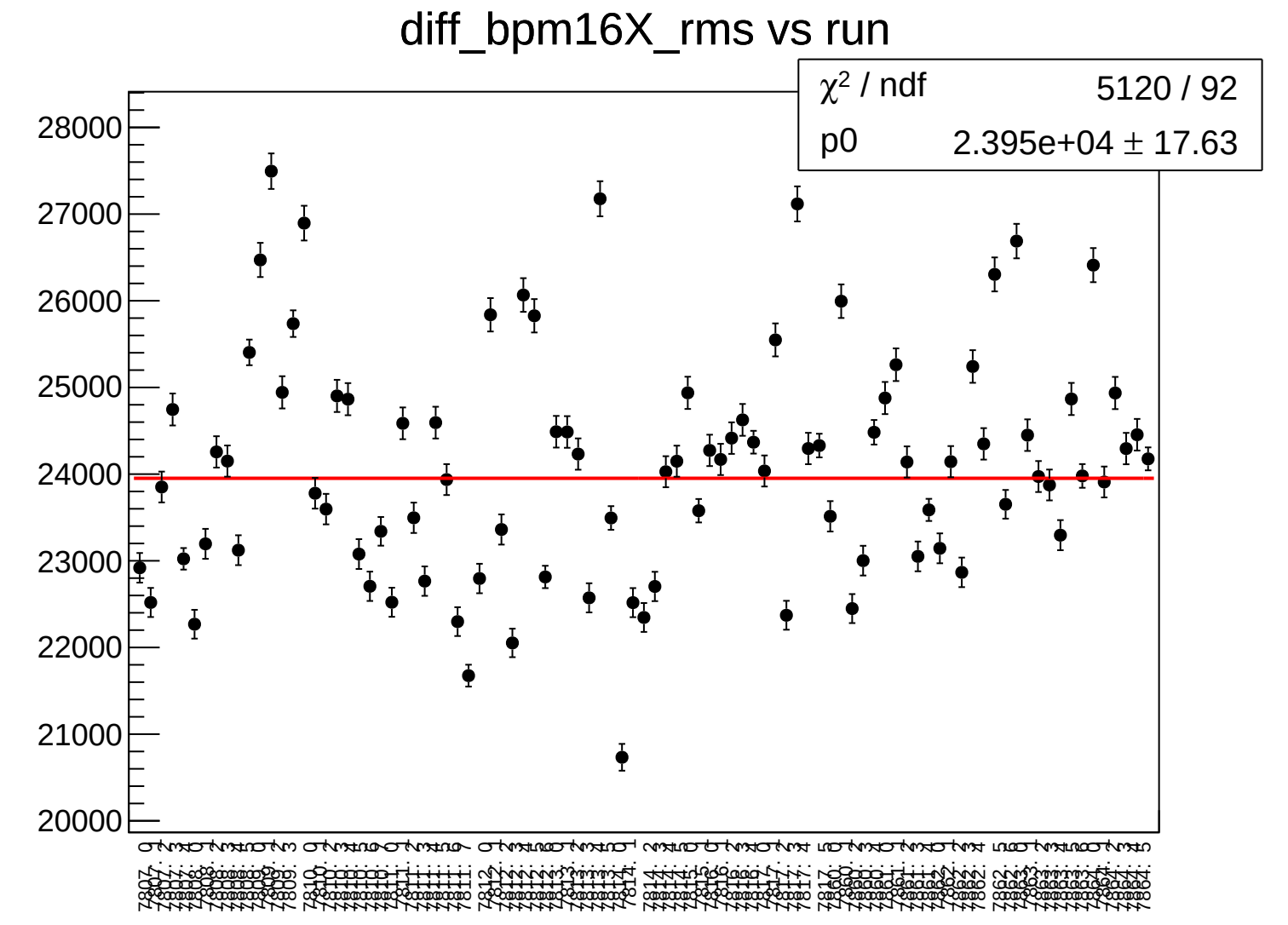

diff_bpm12X_rms vs run
χ² / ndf 2.65e+04 / 92
p0 4.233e+04 ± 31.33
55000
50000
45000
40000
35000

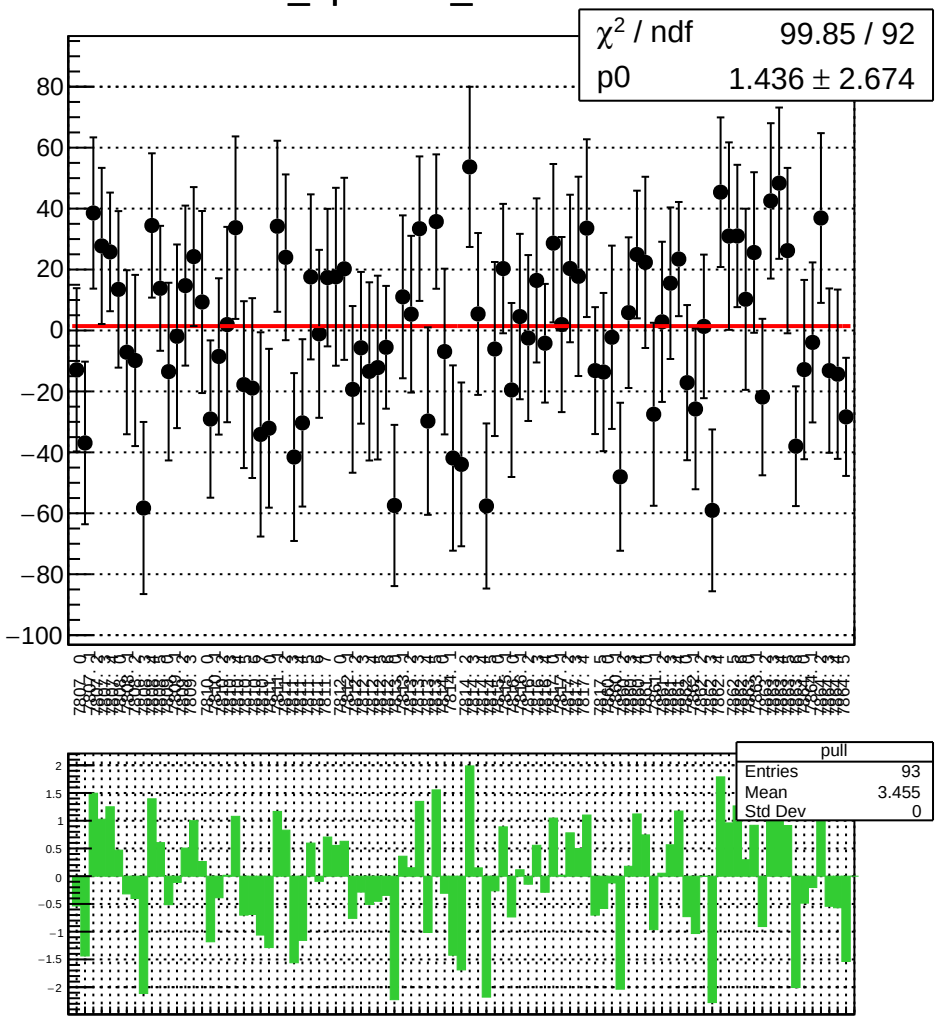

diff_bpm12Y_mean vs run
χ² / ndf 112.2 / 92
p0 −2.524 ± 3.122
pull
Entries 93
Mean 13.61
Std Dev 0

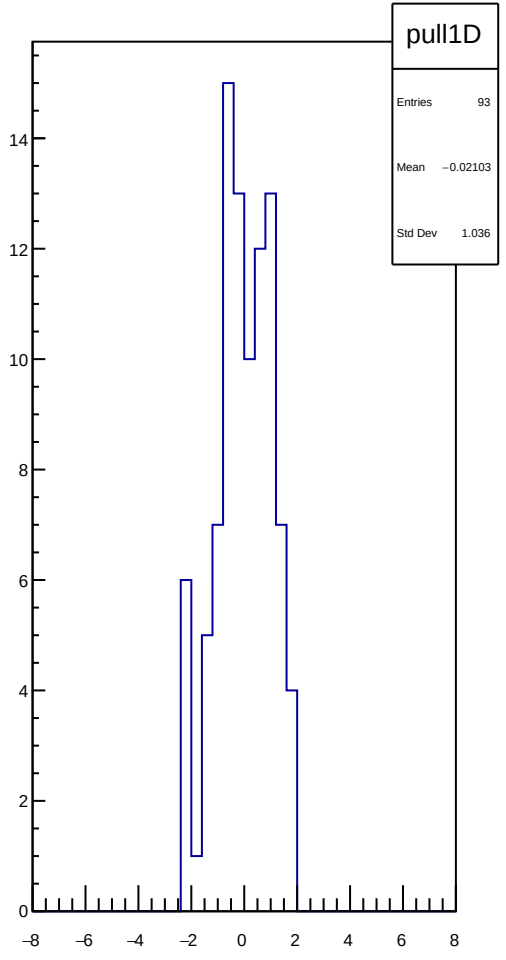

pull1D
Entries 93
Mean −0.01811
Std Dev 1.098

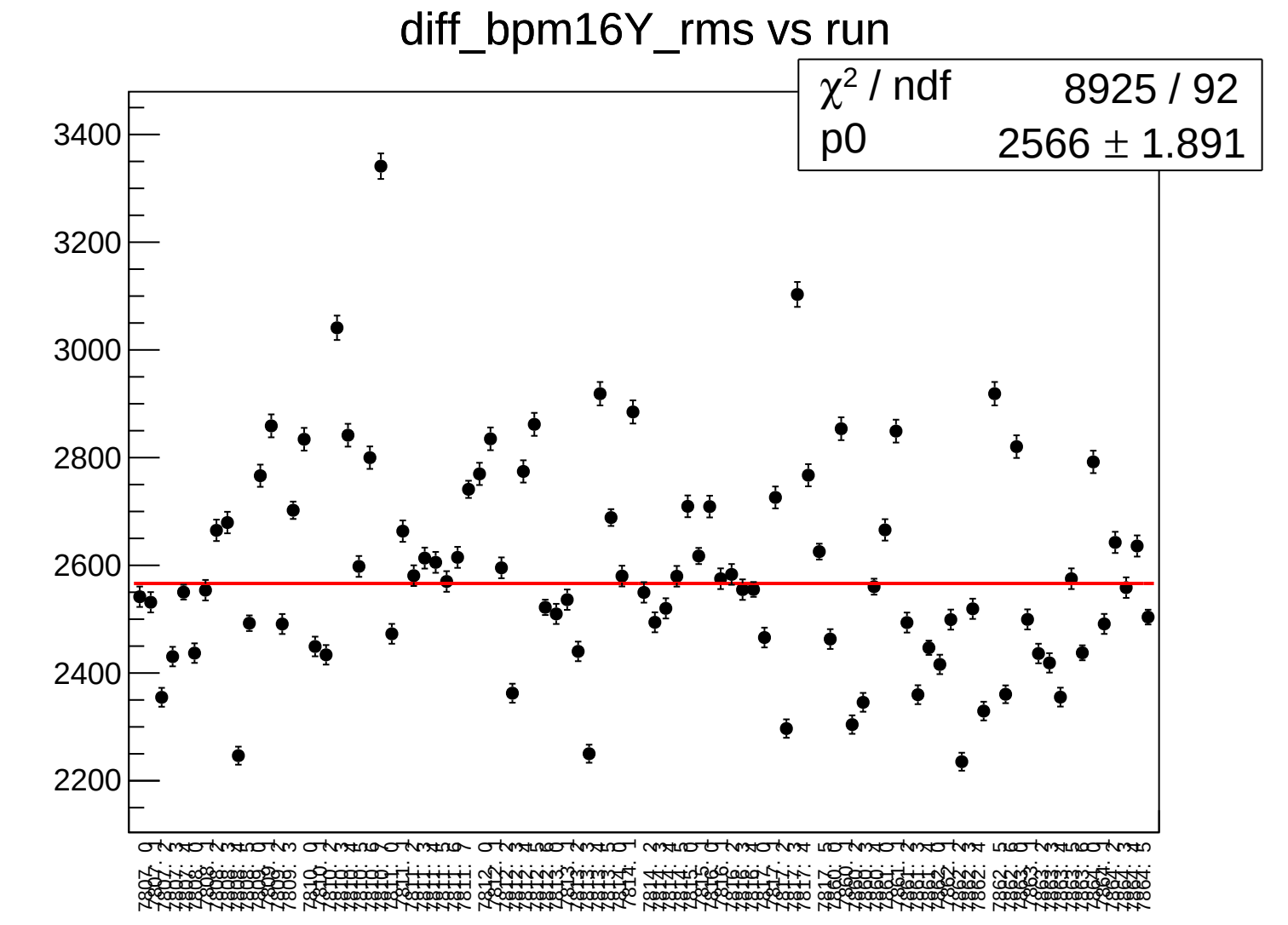

diff_bpm12Y_rms vs run
χ² / ndf 5503 / 92
p0 3000 ± 2.208
3800
3600
3400
3200
3000
2800
2600

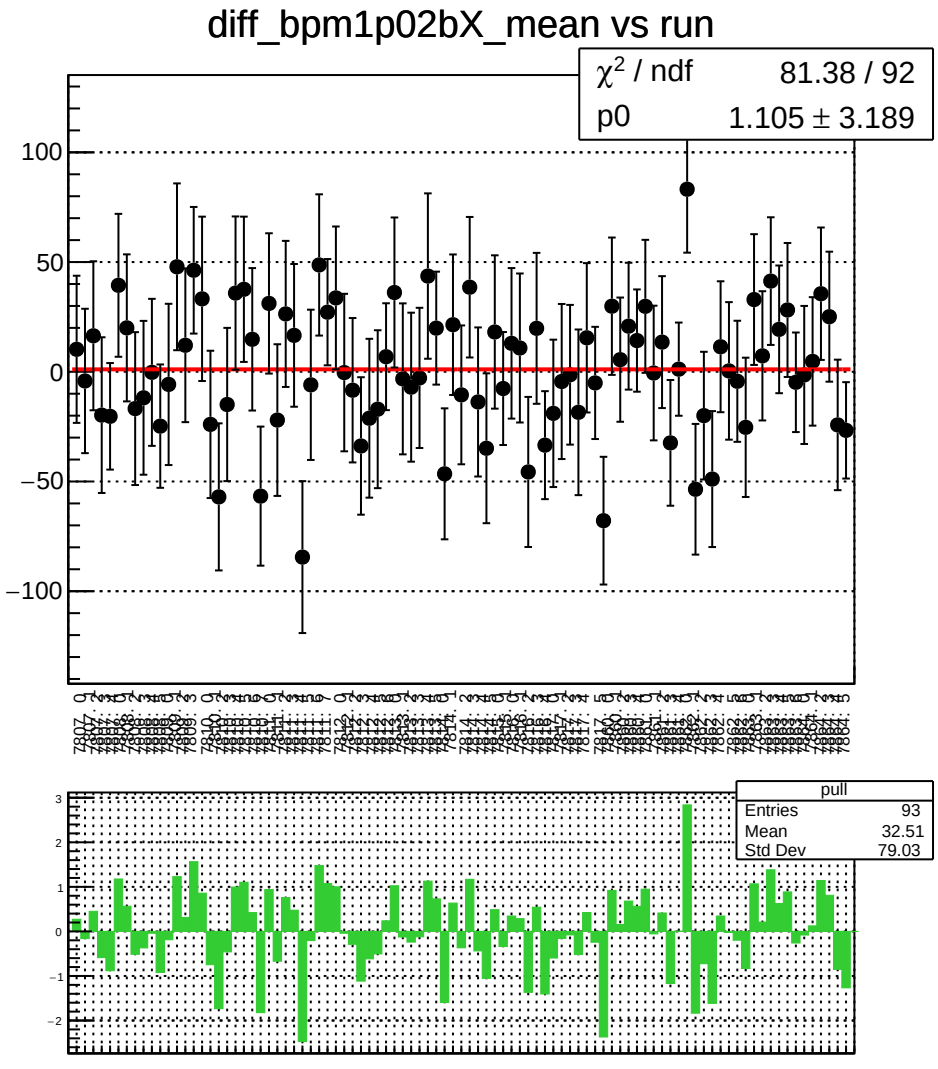

diff_bpm16X_mean vs run
χ² / ndf 84.41 / 92
p0 8.692 ± 24.93
1000
500
0
−500
−1000
pull
Entries 93
Mean −27.29
Std Dev 9.147
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.01208
Std Dev 0.9526
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

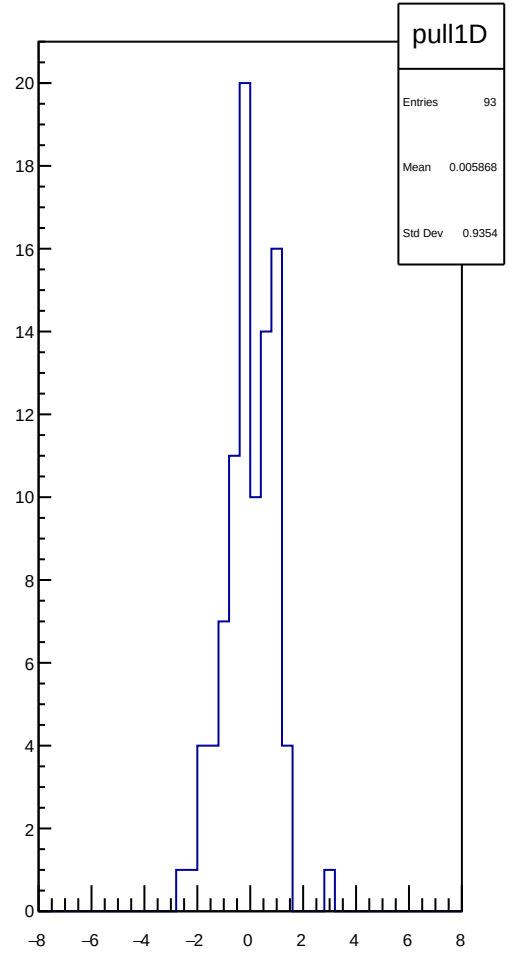

diff_bpm16X_rms vs run
χ² / ndf 5120 / 92
p0 2.395e+04 ± 17.63
28000
27000
26000
25000
24000
23000
22000
21000
20000

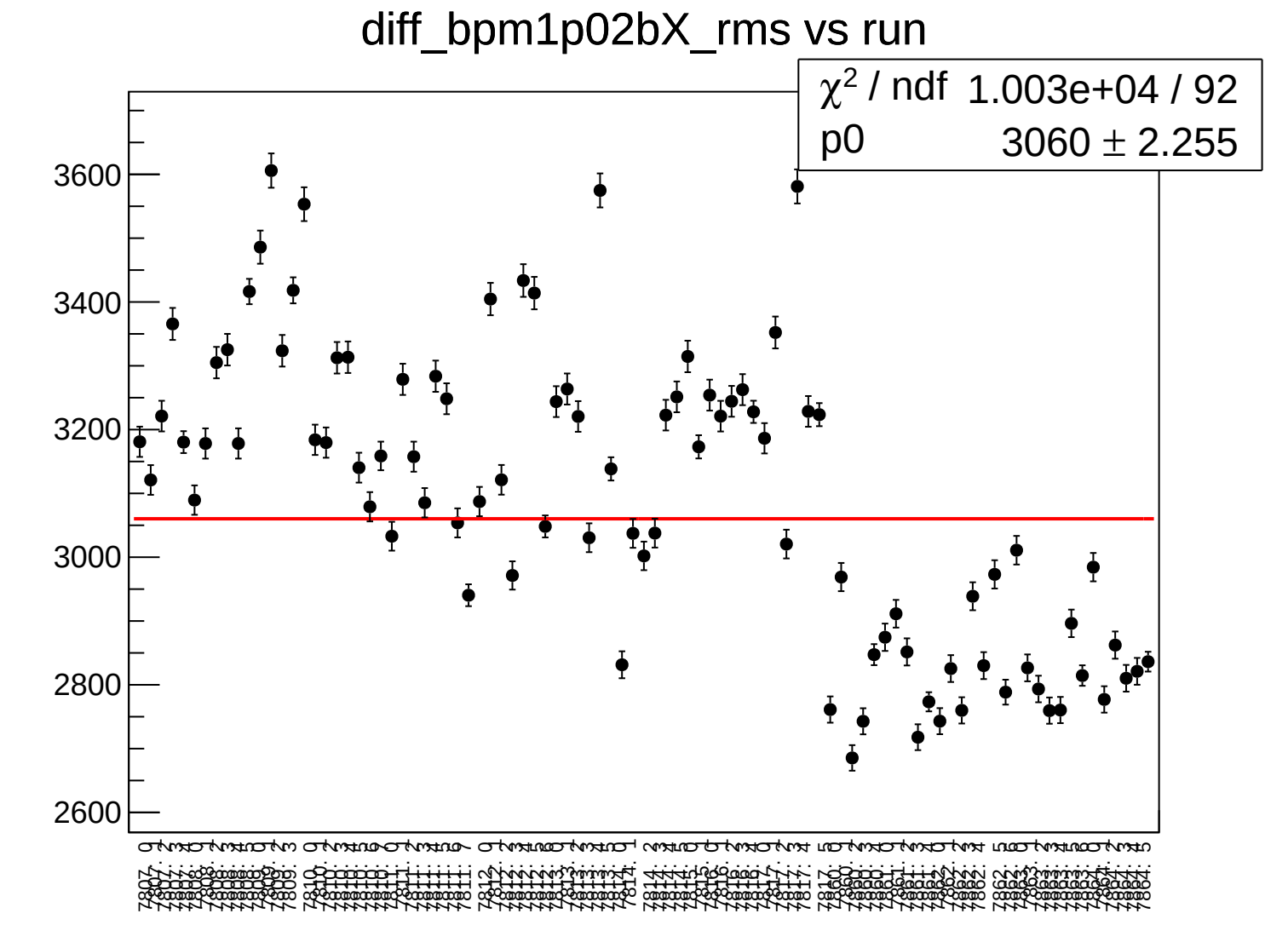

diff_bpm16Y_mean vs run
χ² / ndf 99.85 / 92
p0 1.436 ± 2.674
pull
Entries 93
Mean 3.455
Std Dev 0

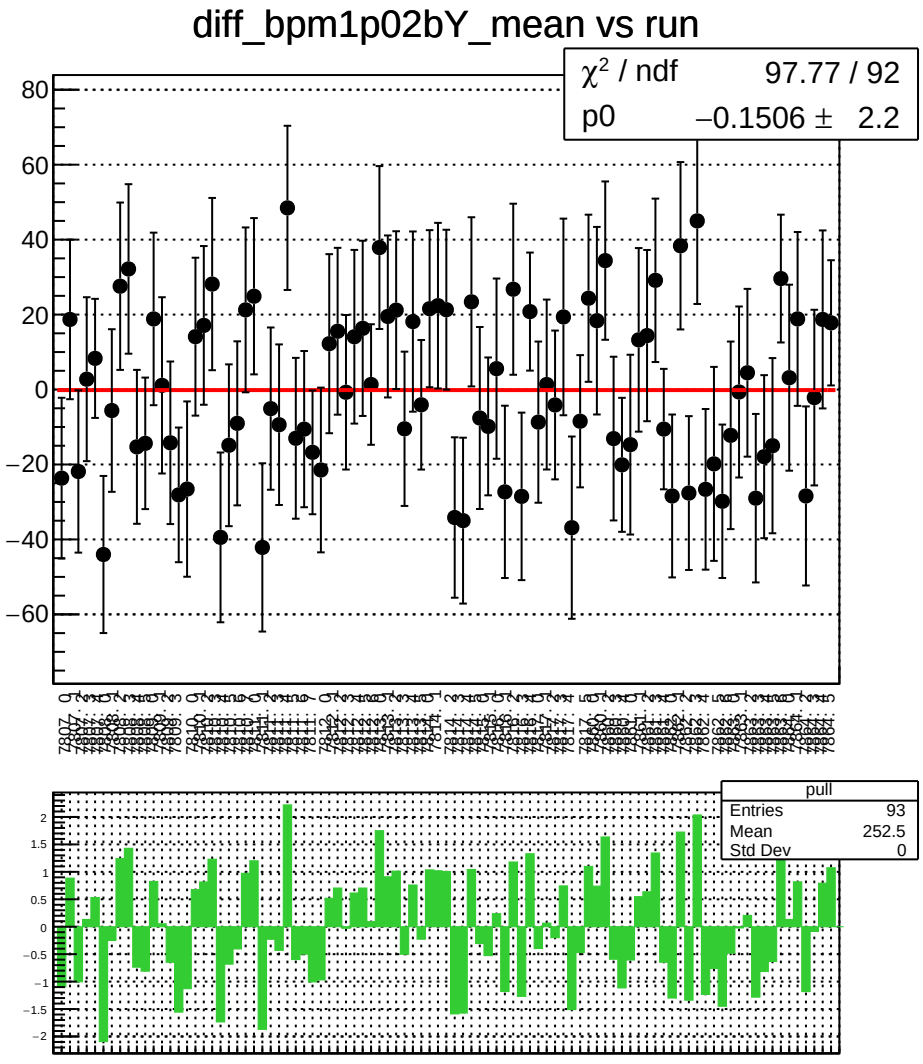

pull1D
Entries 93
Mean −0.02103
Std Dev 1.036

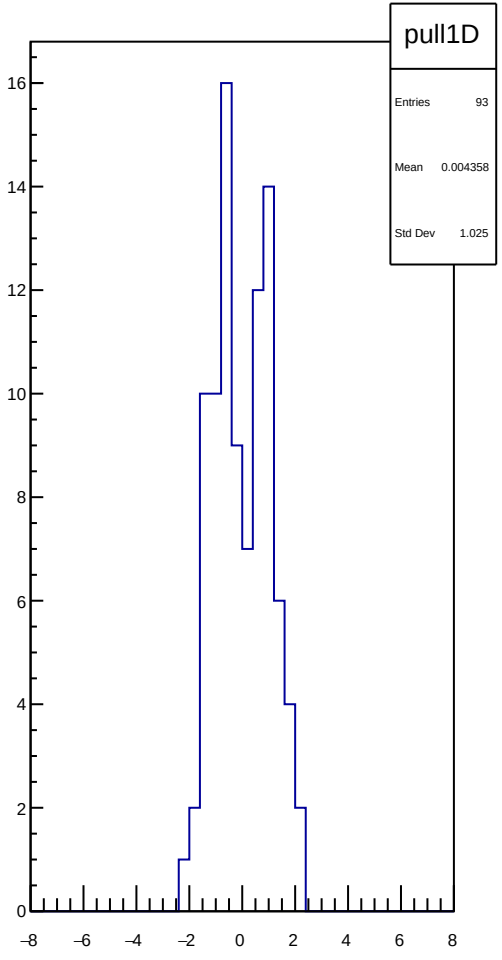

diff_bpm16Y_rms vs run
χ² / ndf 8925 / 92
p0 2566 ± 1.891
3400
3200
3000
2800
2600
2400
2200

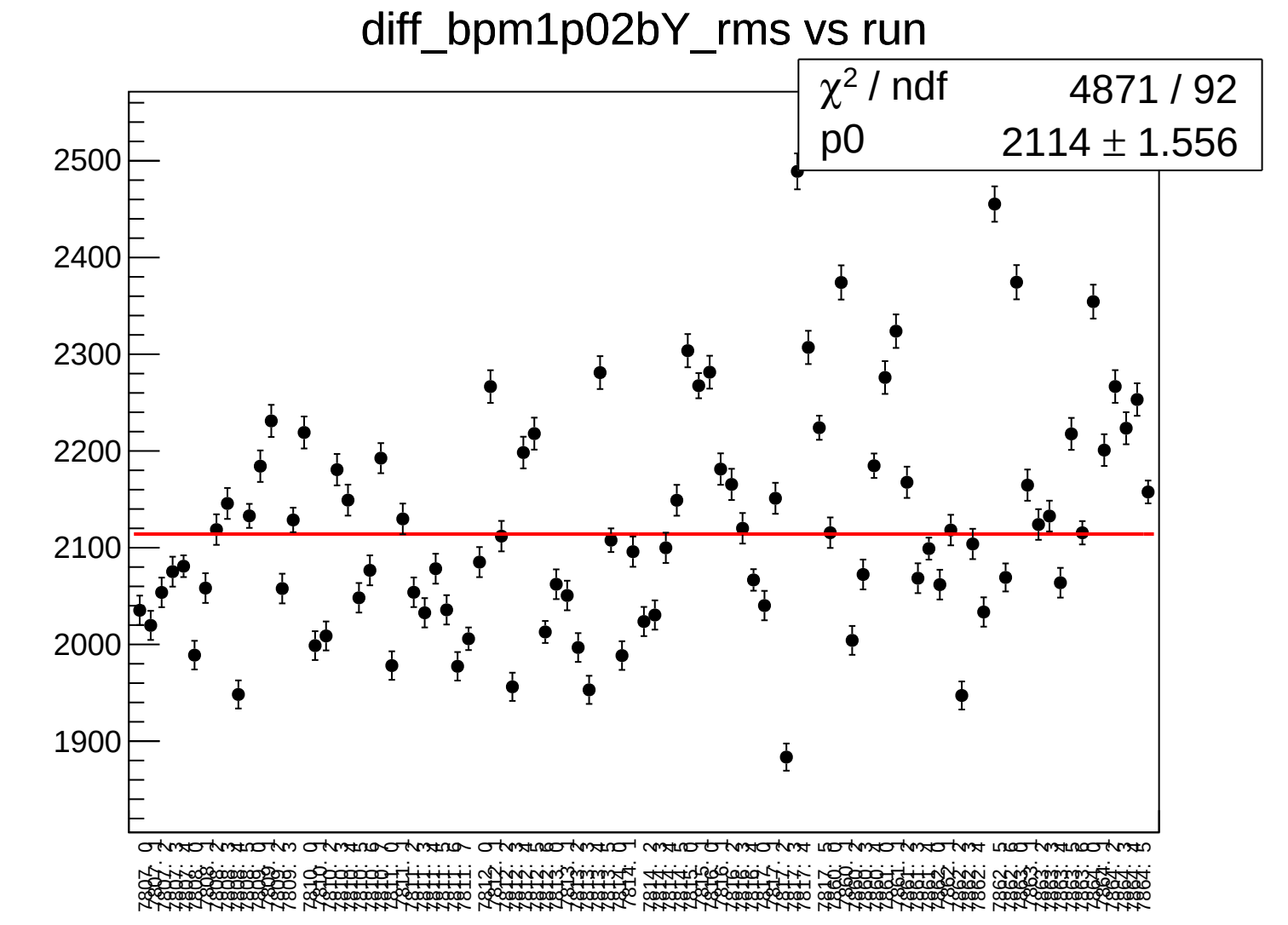

diff_bpm1p02bX_mean vs run
χ² / ndf 81.38 / 92
p0 1.105 ± 3.189
100
50
0
−50
−100
pull
Entries 93
Mean 32.51
Std Dev 79.03
3
2
1
0
−1
−2

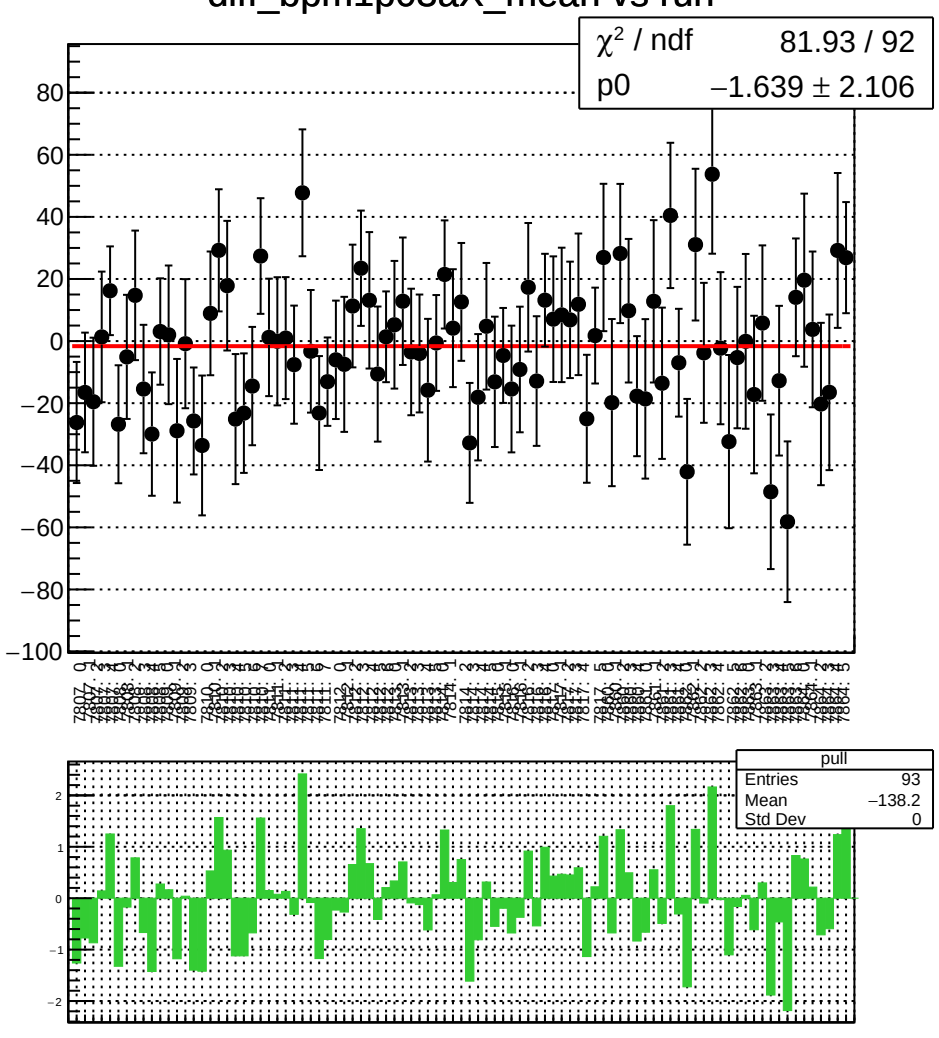

pull1D
Entries 93
Mean 0.005868
Std Dev 0.9354
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

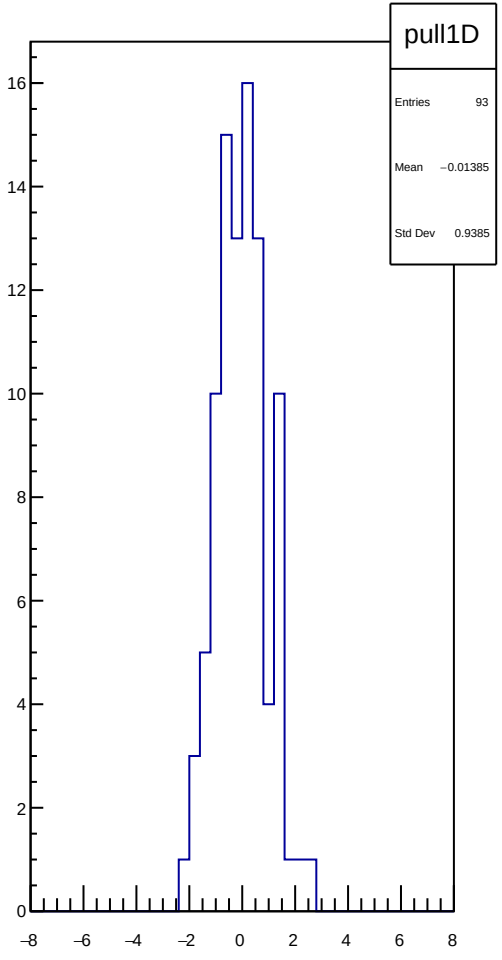

diff_bpm1p02bX_rms vs run
χ² / ndf 1.003e+04 / 92
p0 3060 ± 2.255
3600
3400
3200
3000
2800
2600

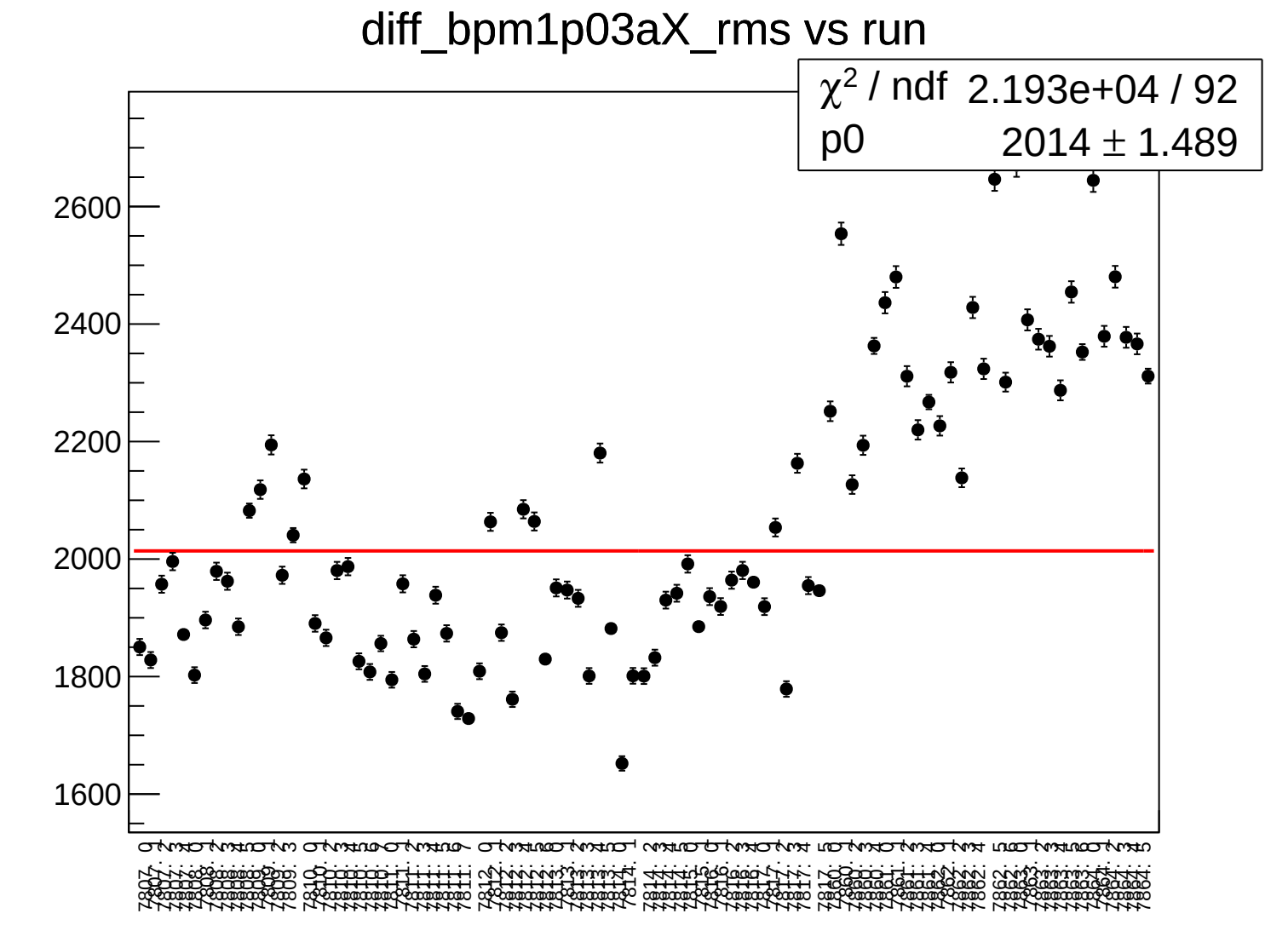

diff_bpm1p02bY_mean vs run
χ² / ndf 97.77 / 92
p0 −0.1506 ± 2.2
pull
Entries 93
Mean 252.5
Std Dev 0

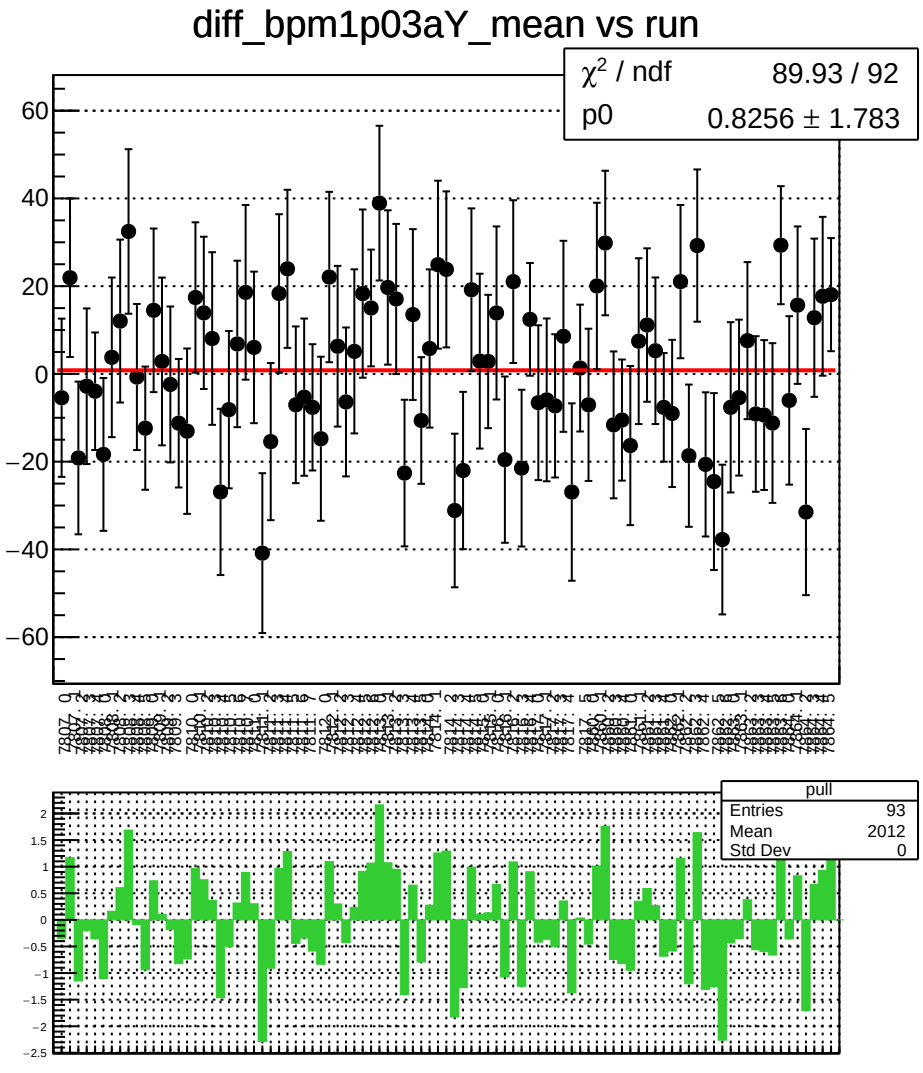

pull1D
Entries 93
Mean 0.004358
Std Dev 1.025

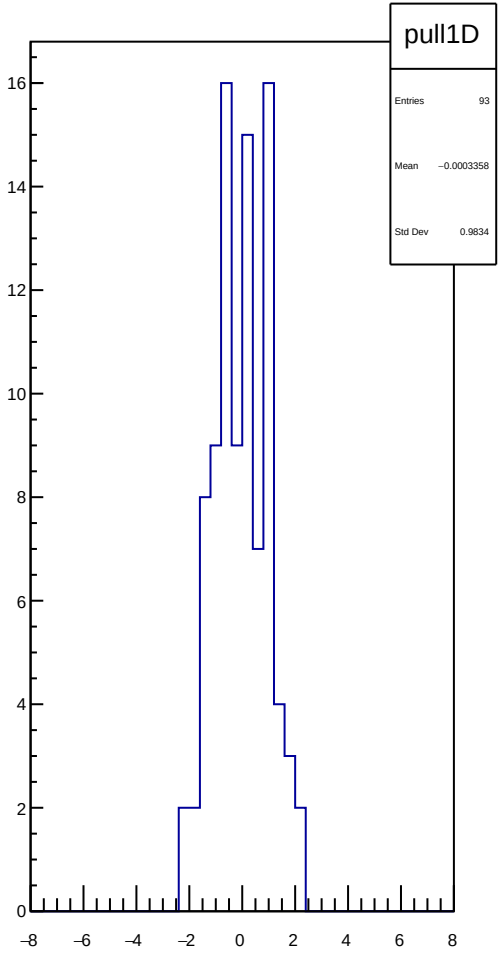

diff_bpm1p02bY_rms vs run
χ² / ndf 4871 / 92
p0 2114 ± 1.556
2500
2400
2300
2200
2100
2000
1900

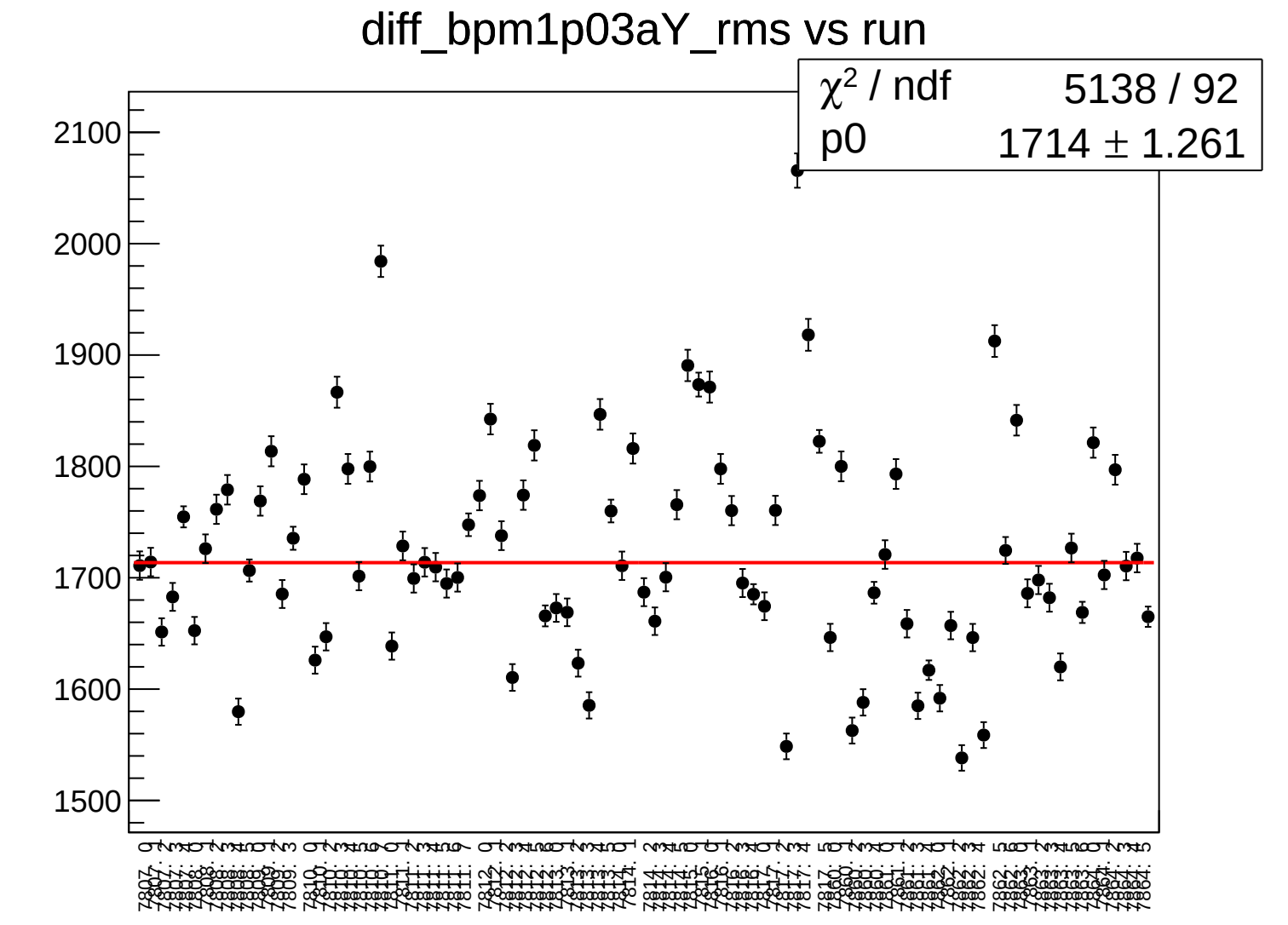

diff_bpm1p03aX_mean vs run
χ² / ndf 81.93 / 92
p0 −1.639 ± 2.106
pull
Entries 93
Mean −138.2
Std Dev 0

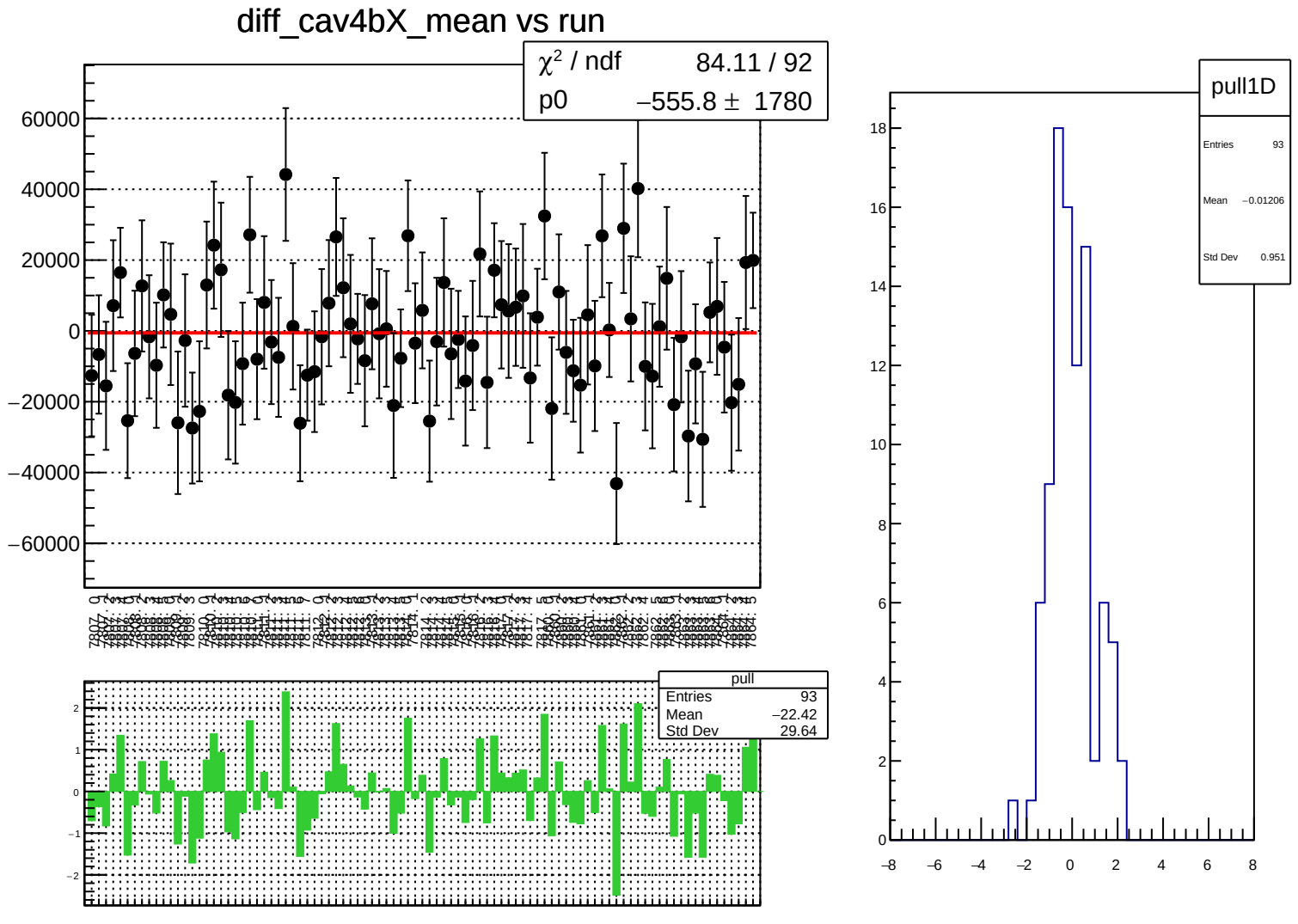

pull1D
Entries 93
Mean −0.01385
Std Dev 0.9385

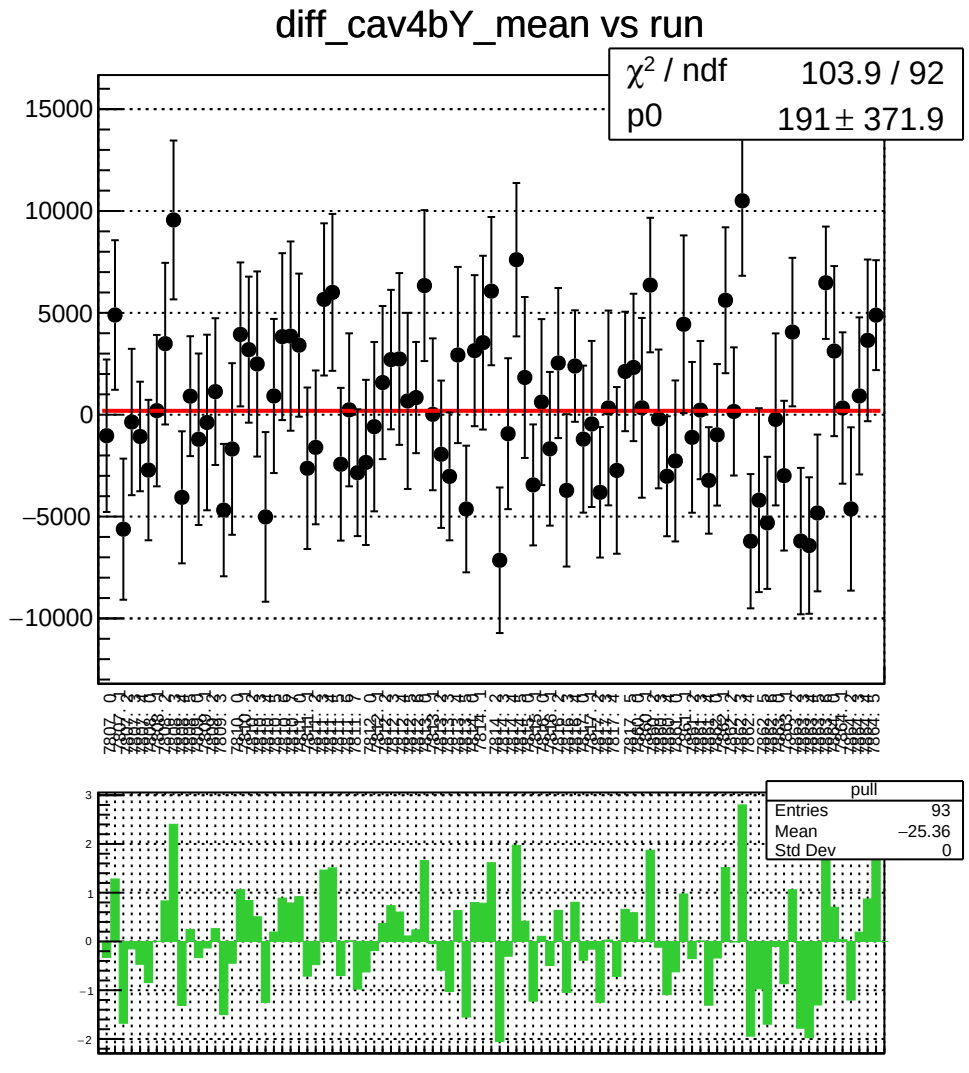

diff_bpm1p03aX_rms vs run
χ² / ndf 2.193e+04 / 92
p0 2014 ± 1.489
2600
2400
2200
2000
1800
1600

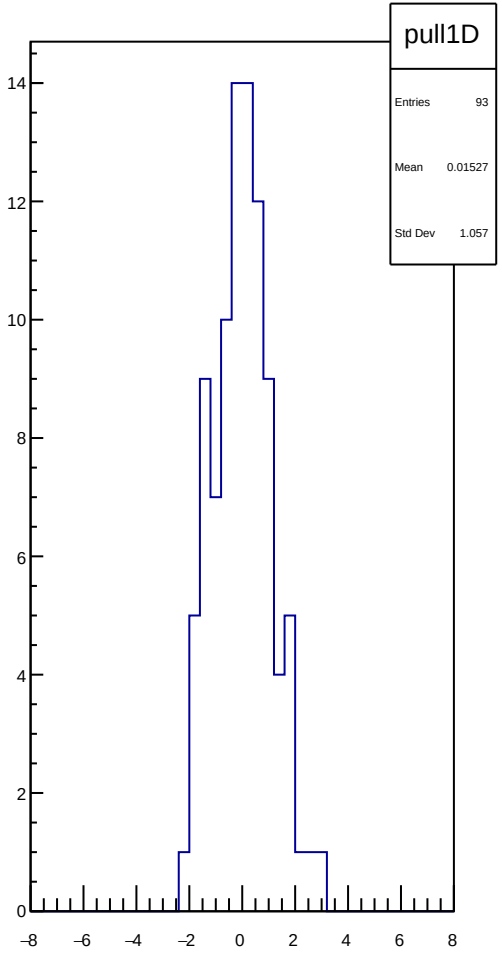

diff_bpm1p03aY_mean vs run
χ² / ndf 89.93 / 92
p0 0.8256 ± 1.783
pull
Entries 93
Mean 2012
Std Dev 0

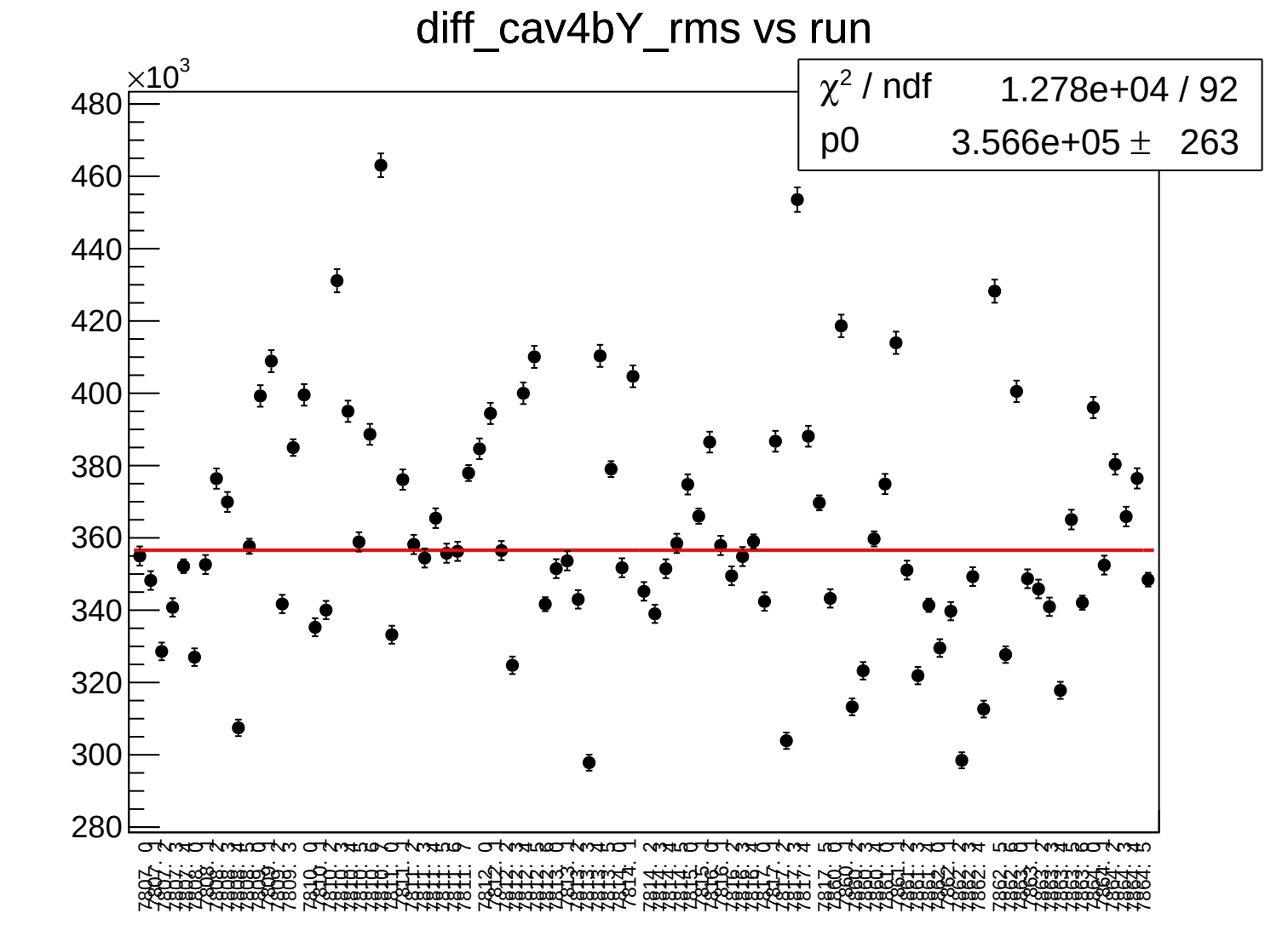

pull1D
Entries 93
Mean −0.0003358
Std Dev 0.9834

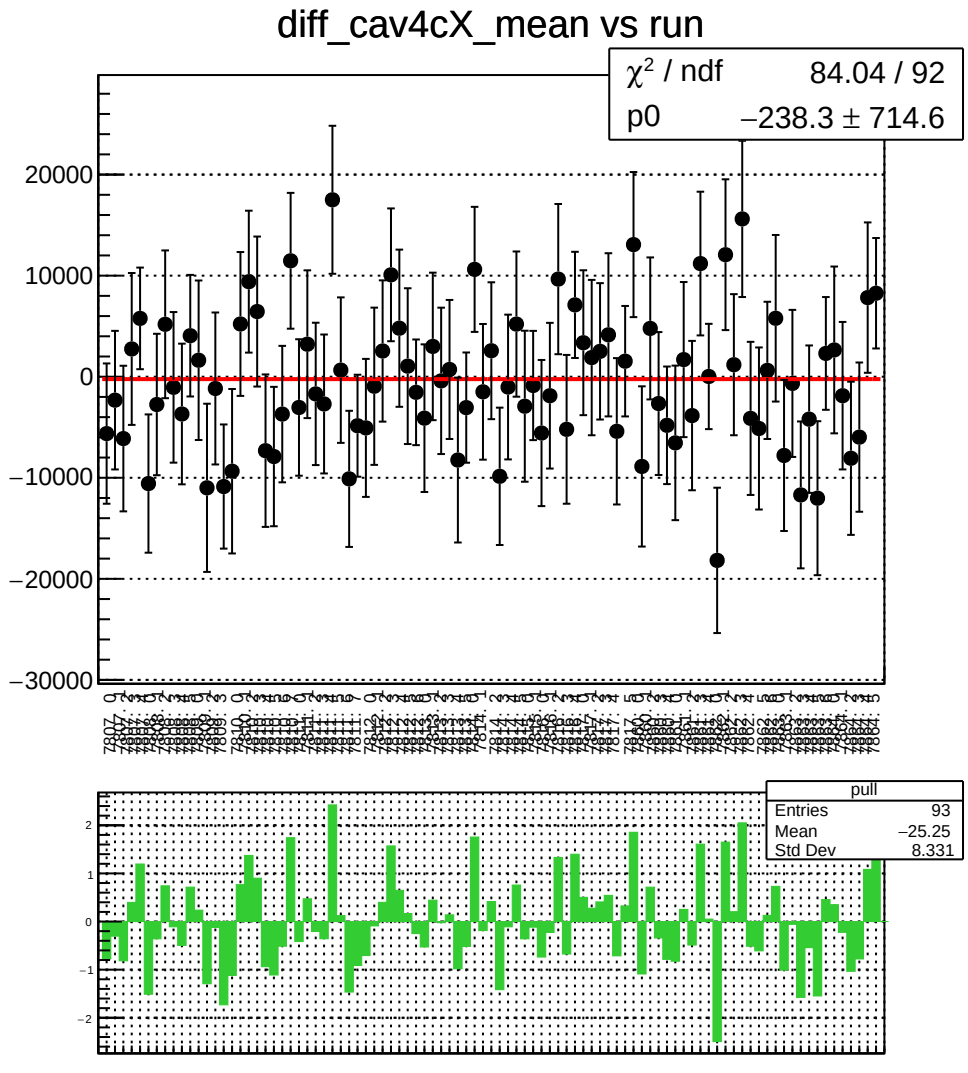

diff_bpm1p03aY_rms vs run
χ² / ndf 5138 / 92
p0 1714 ± 1.261
2100
2000
1900
1800
1700
1600
1500

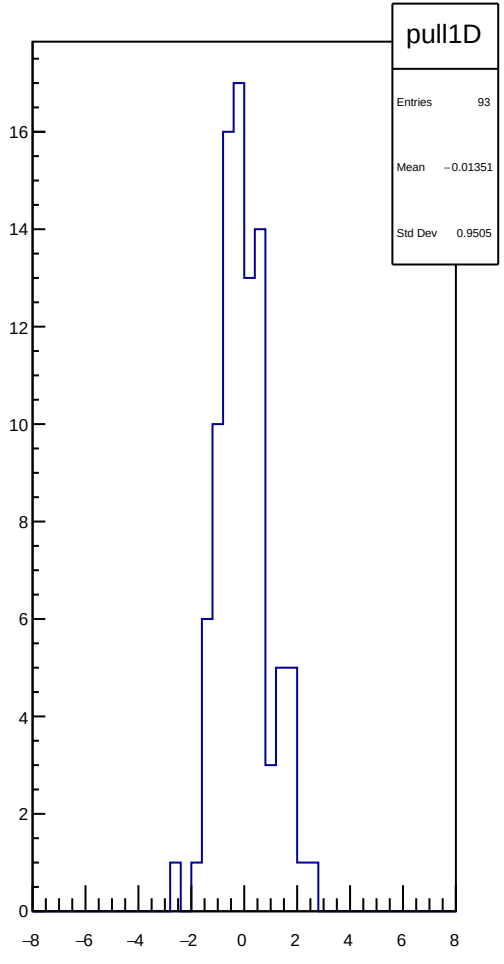

diff_cav4bX_mean vs run
χ² / ndf 84.11 / 92
p0 −555.8 ± 1780
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −22.42
Std Dev 29.64
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.01206
Std Dev 0.951
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

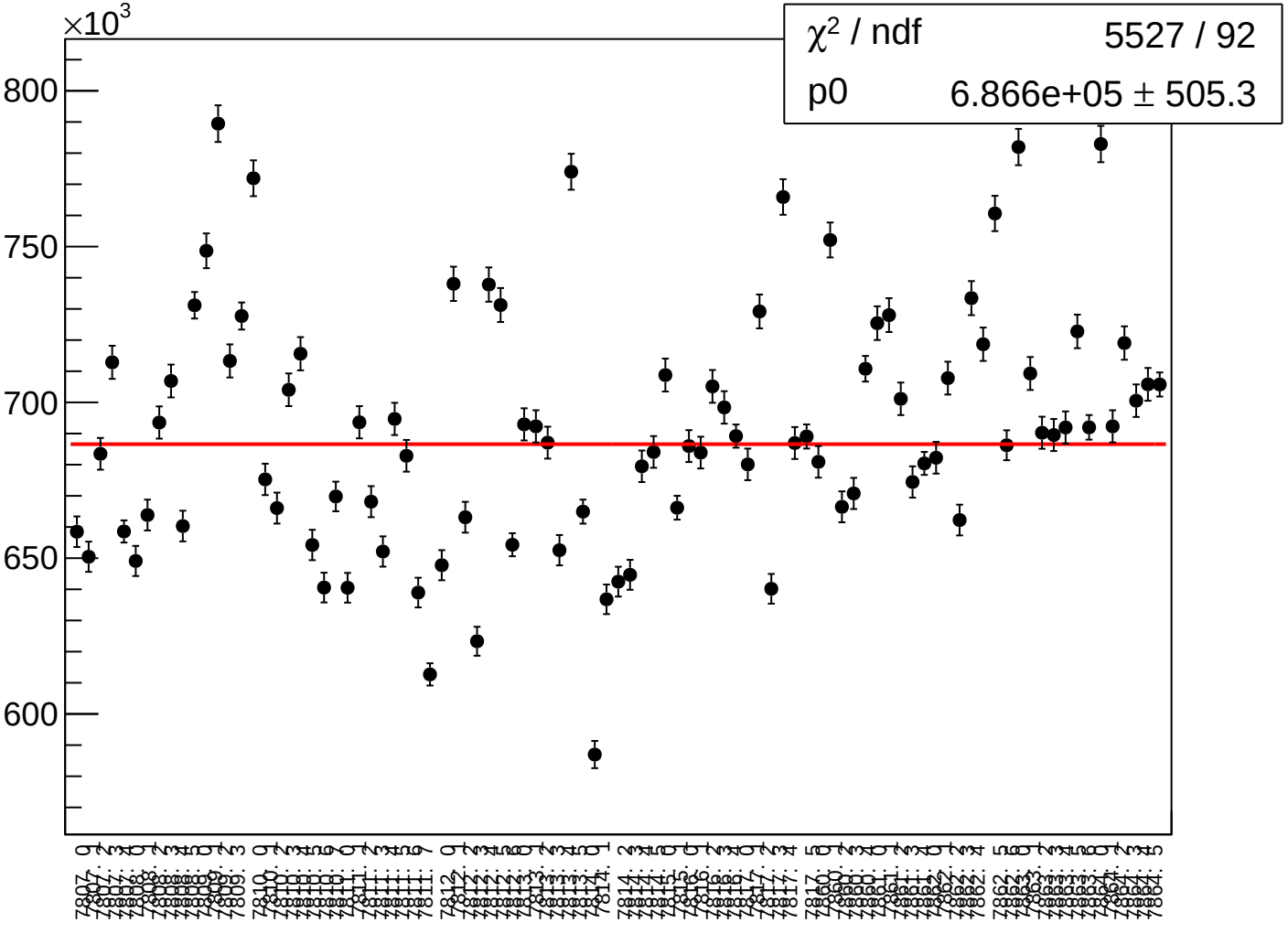

diff_cav4bY_mean vs run
χ² / ndf 103.9 / 92
p0 191 ± 371.9
15000
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −25.36
Std Dev 0
3
2
1
0
−1
−2

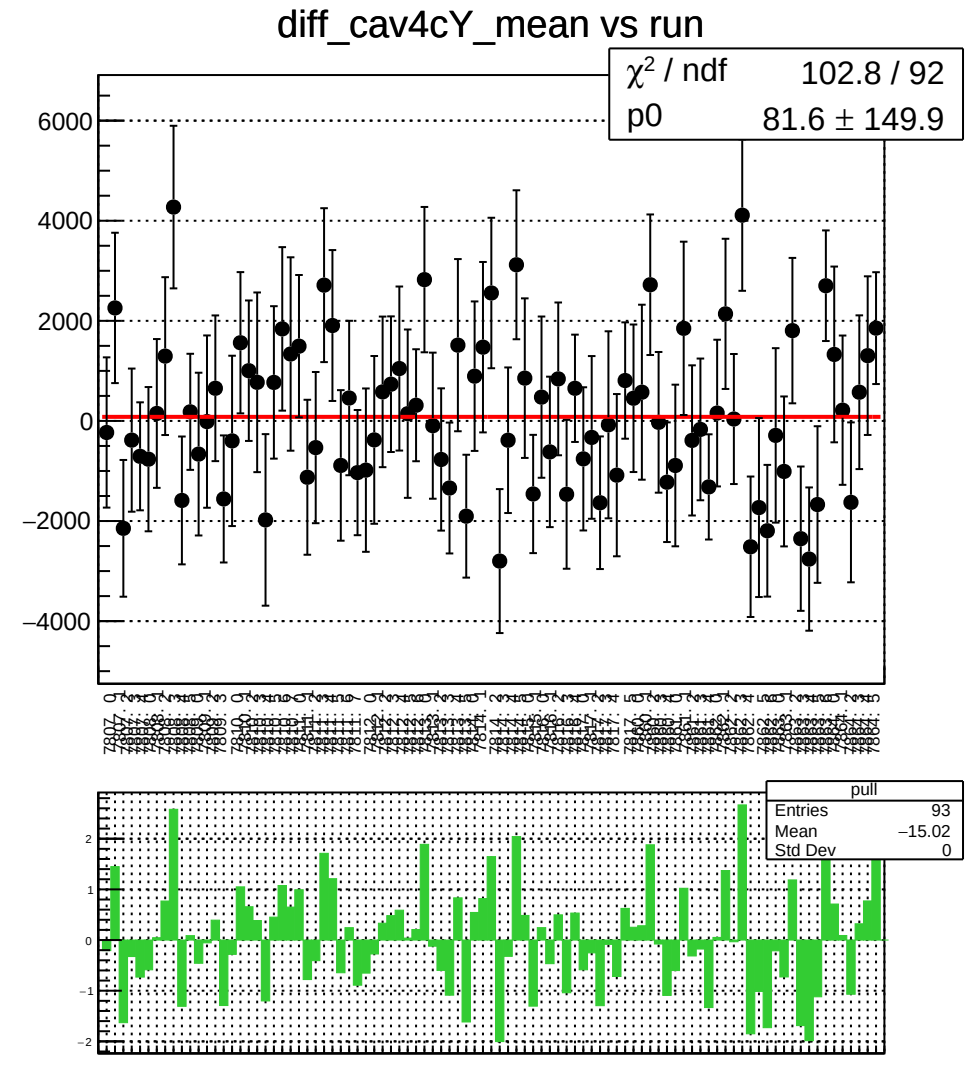

pull1D
Entries 93
Mean 0.01527
Std Dev 1.057
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

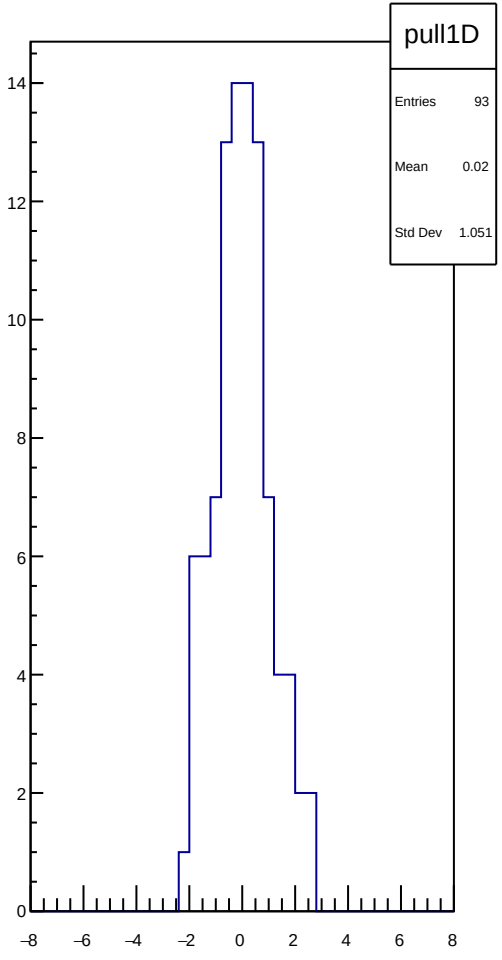

diff_cav4bY_rms vs run
×10^3
480
460
440
420
400
380
360
340
320
300
280
χ² / ndf 1.278e+04 / 92
p0 3.566e+05 ± 263

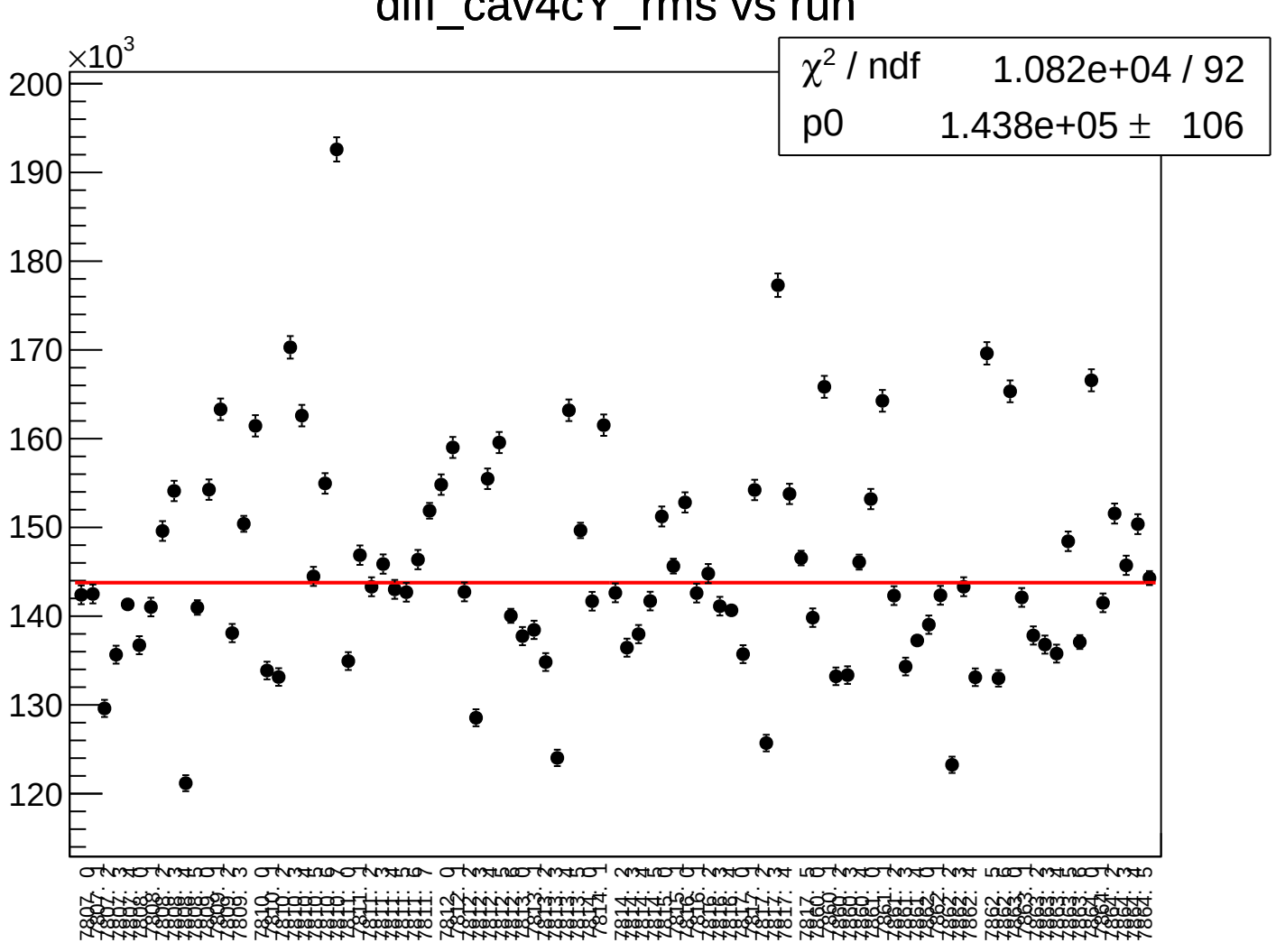

diff_cav4cX_mean vs run
χ² / ndf 84.04 / 92
p0 −238.3 ± 714.6
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −25.25
Std Dev 8.331
2
1
0
−1
−2

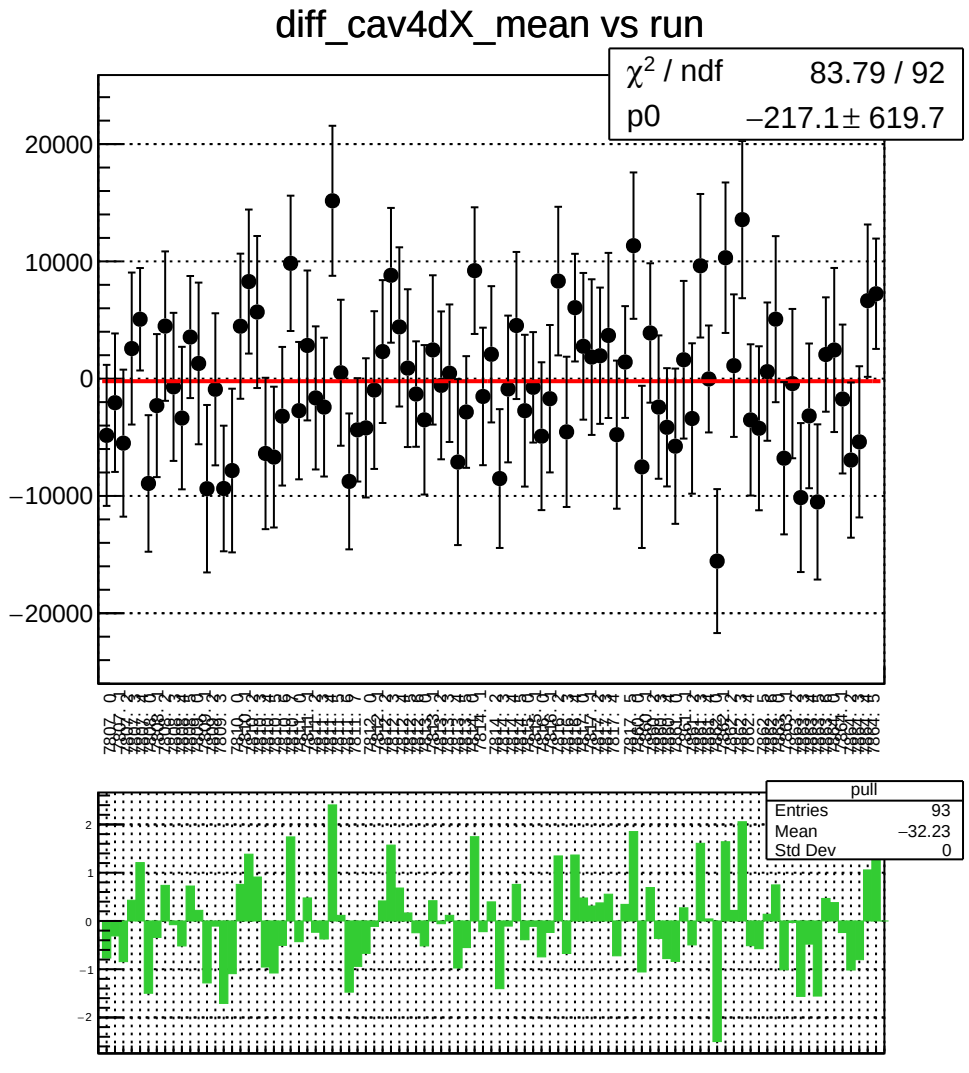

pull1D
Entries 93
Mean −0.01351
Std Dev 0.9505
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

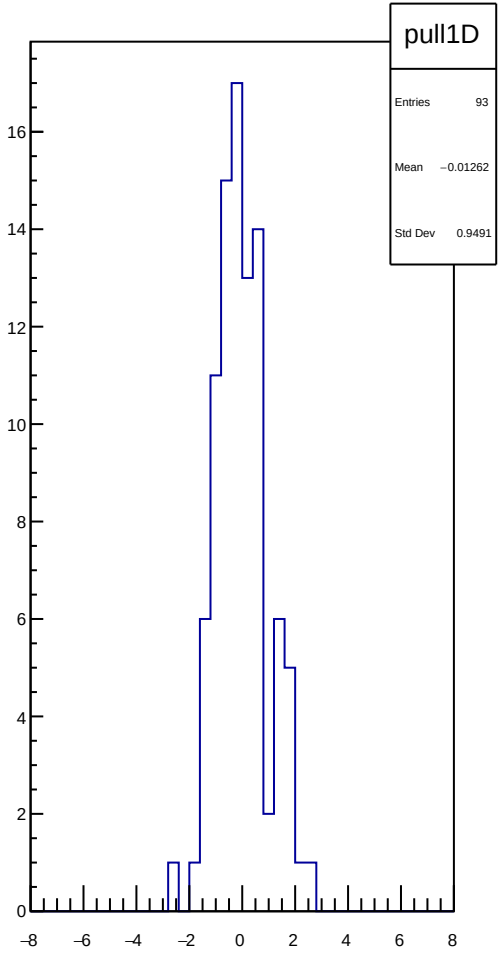

diff_cav4cX_rms vs run
×10^3
800
750
700
650
600
χ² / ndf 5527 / 92
p0 6.866e+05 ± 505.3

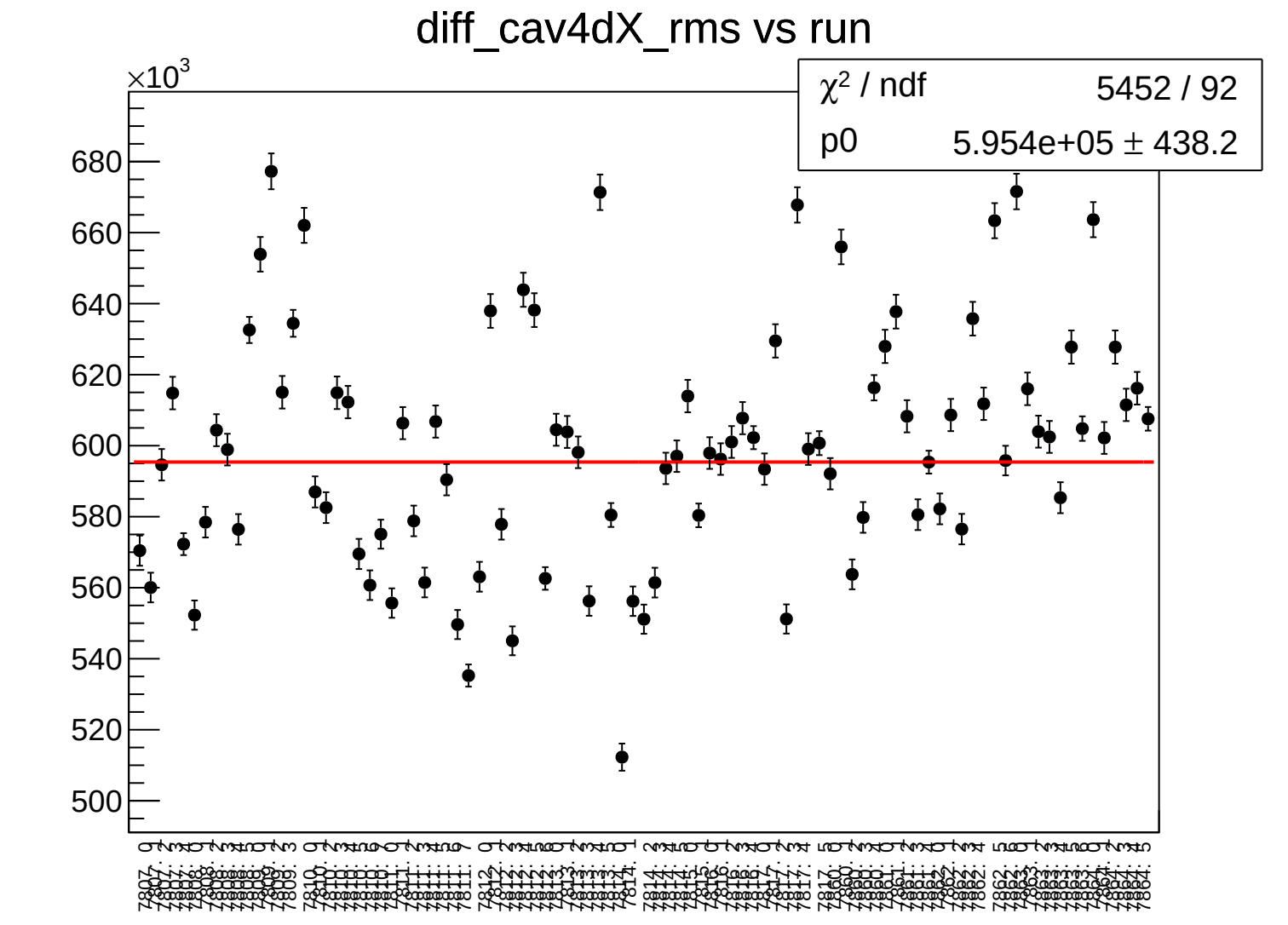

diff_cav4cY_mean vs run
χ² / ndf 102.8 / 92
p0 81.6 ± 149.9
6000
4000
2000
0
−2000
−4000
pull
Entries 93
Mean −15.02
Std Dev 0
2
1
0
−1
−2

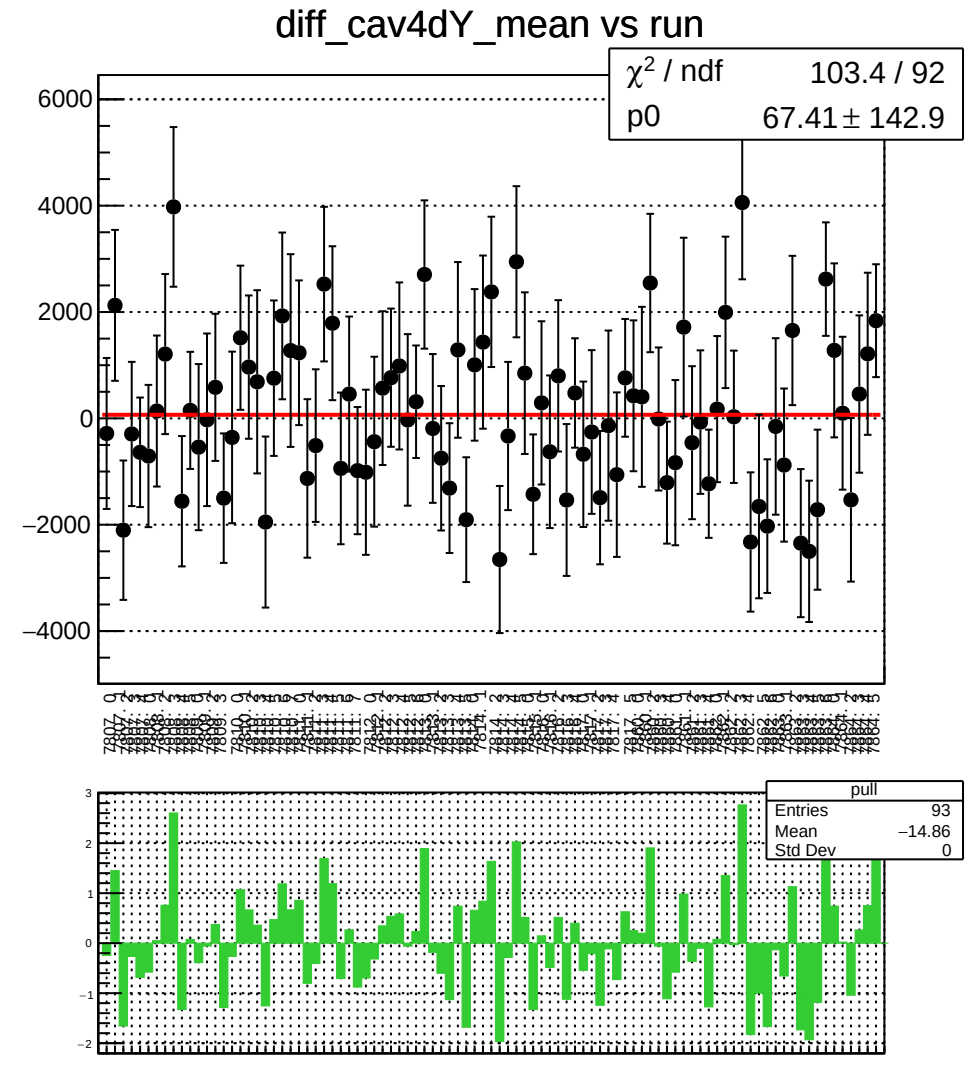

pull1D
Entries 93
Mean 0.02
Std Dev 1.051
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

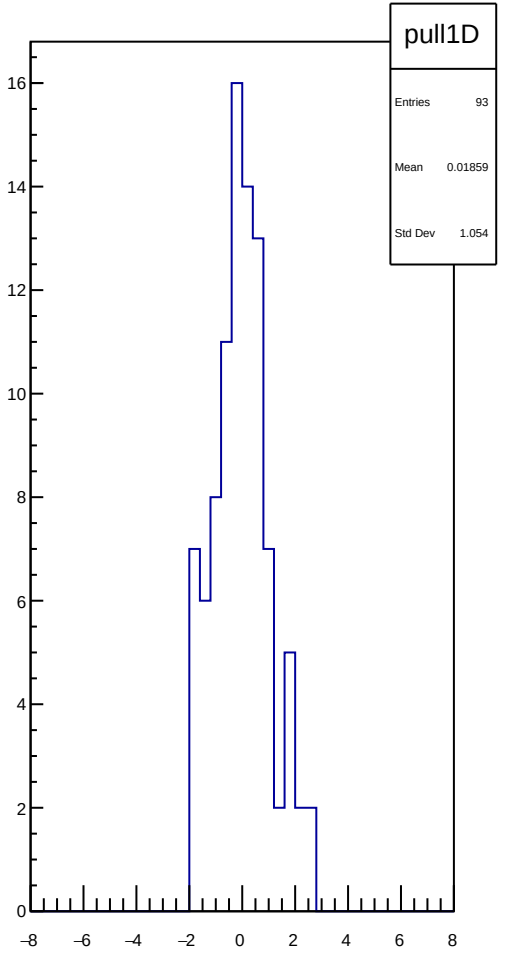

diff_cav4cY_rms vs run
×10^3
200
190
180
170
160
150
140
130
120
χ² / ndf 1.082e+04 / 92
p0 1.438e+05 ± 106

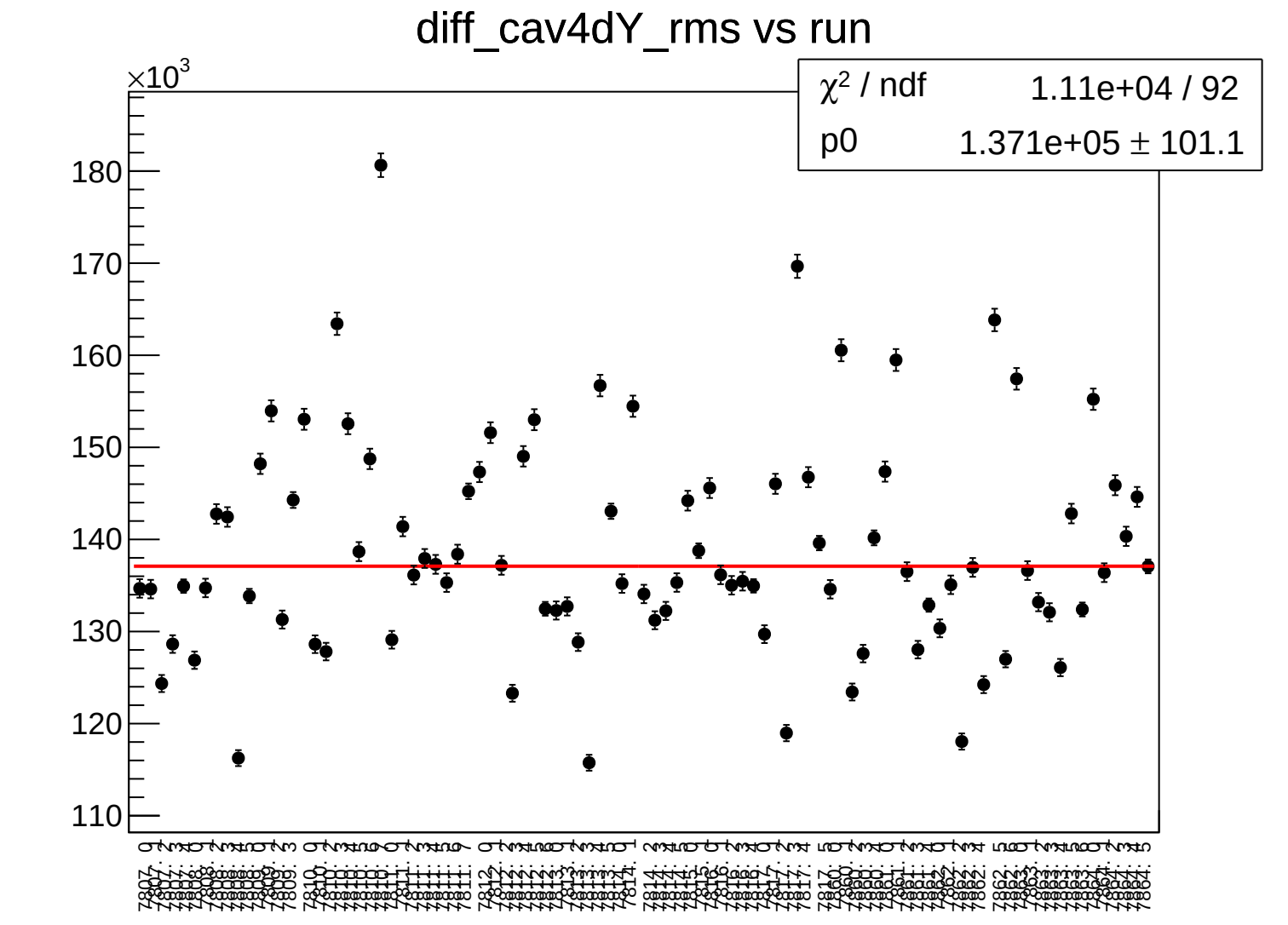

diff_cav4dX_mean vs run
χ² / ndf 83.79 / 92
p0 −217.1 ± 619.7
20000
10000
0
−10000
−20000
pull
Entries 93
Mean −32.23
Std Dev 0
2
1
0
−1
−2

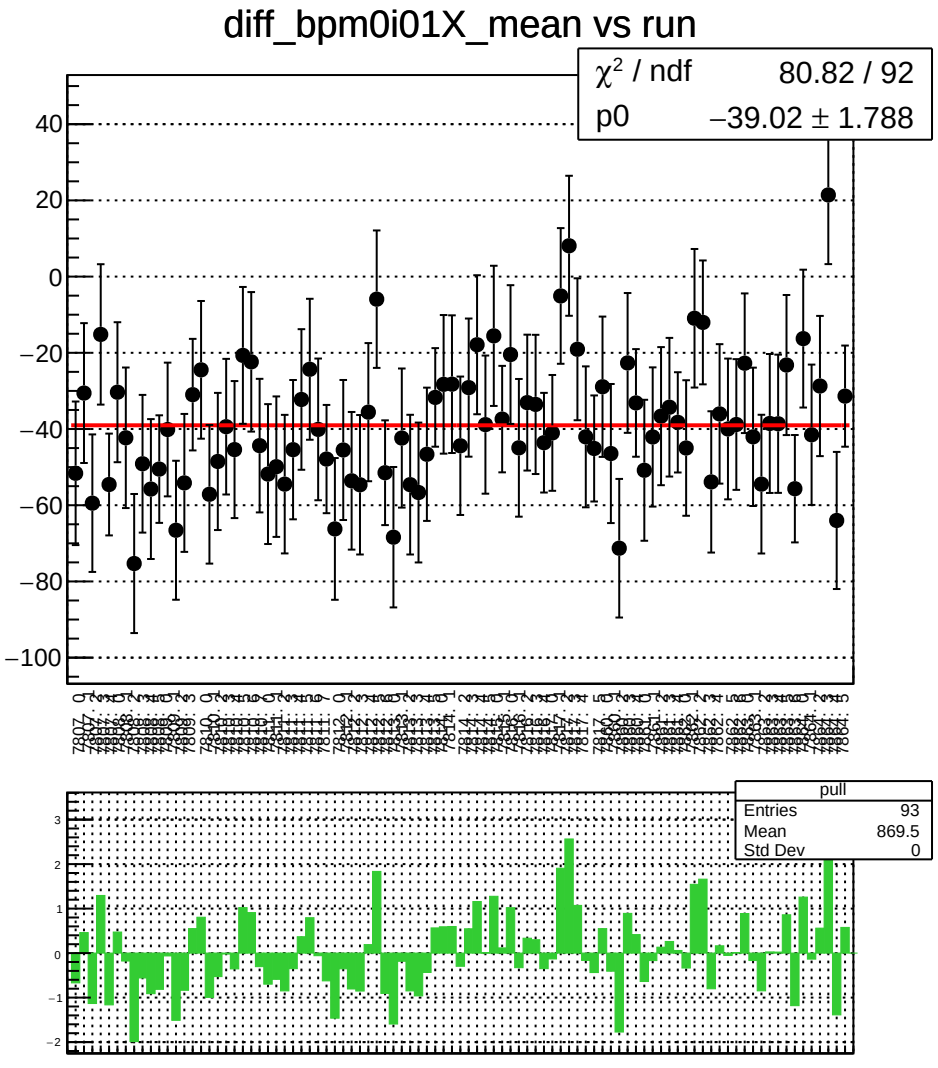

pull1D
Entries 93
Mean −0.01262
Std Dev 0.9491
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

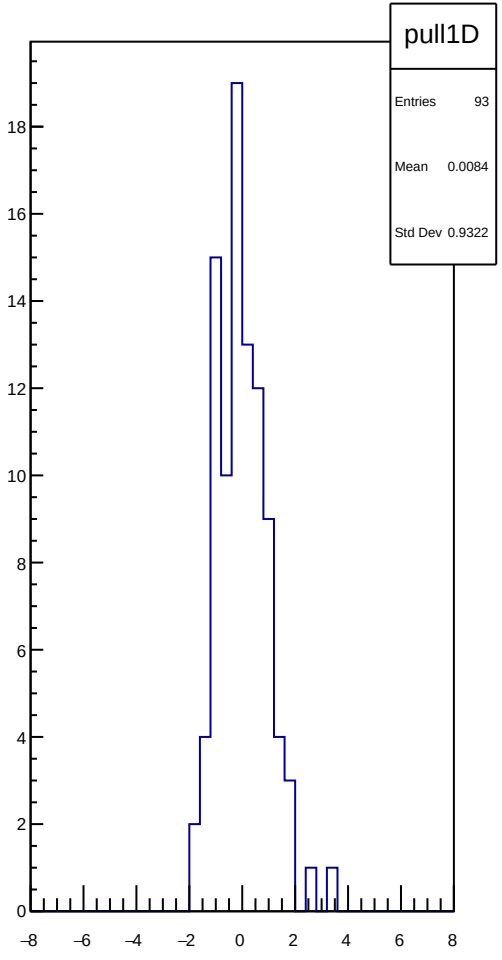

diff_cav4dX_rms vs run
×10^3
680
660
640
620
600
580
560
540
520
500
χ² / ndf 5452 / 92
p0 5.954e+05 ± 438.2

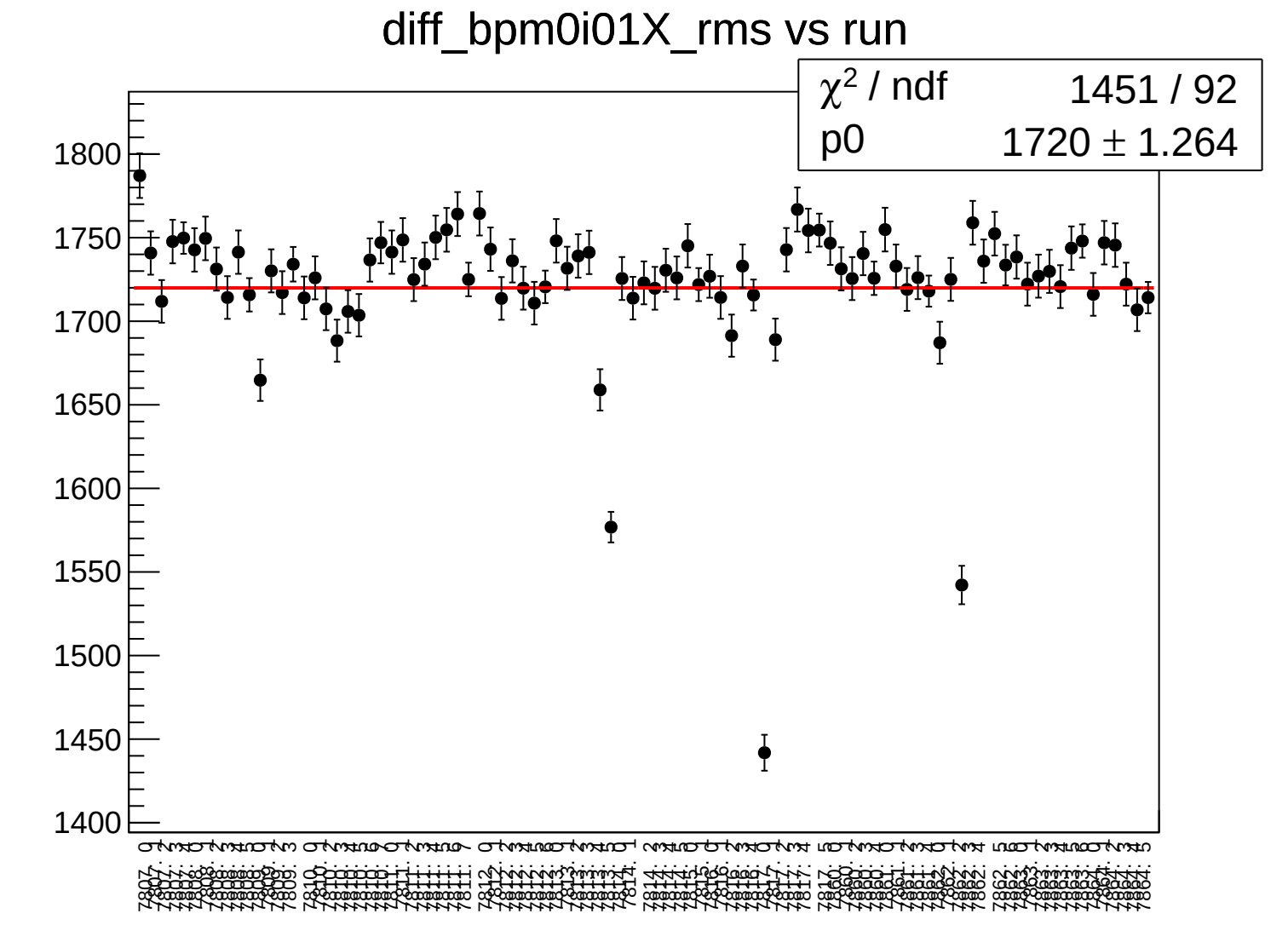

diff_cav4dY_mean vs run
χ² / ndf 103.4 / 92
p0 67.41 ± 142.9
6000
4000
2000
0
−2000
−4000
pull
Entries 93
Mean −14.86
Std Dev 0
3
2
1
0
−1
−2

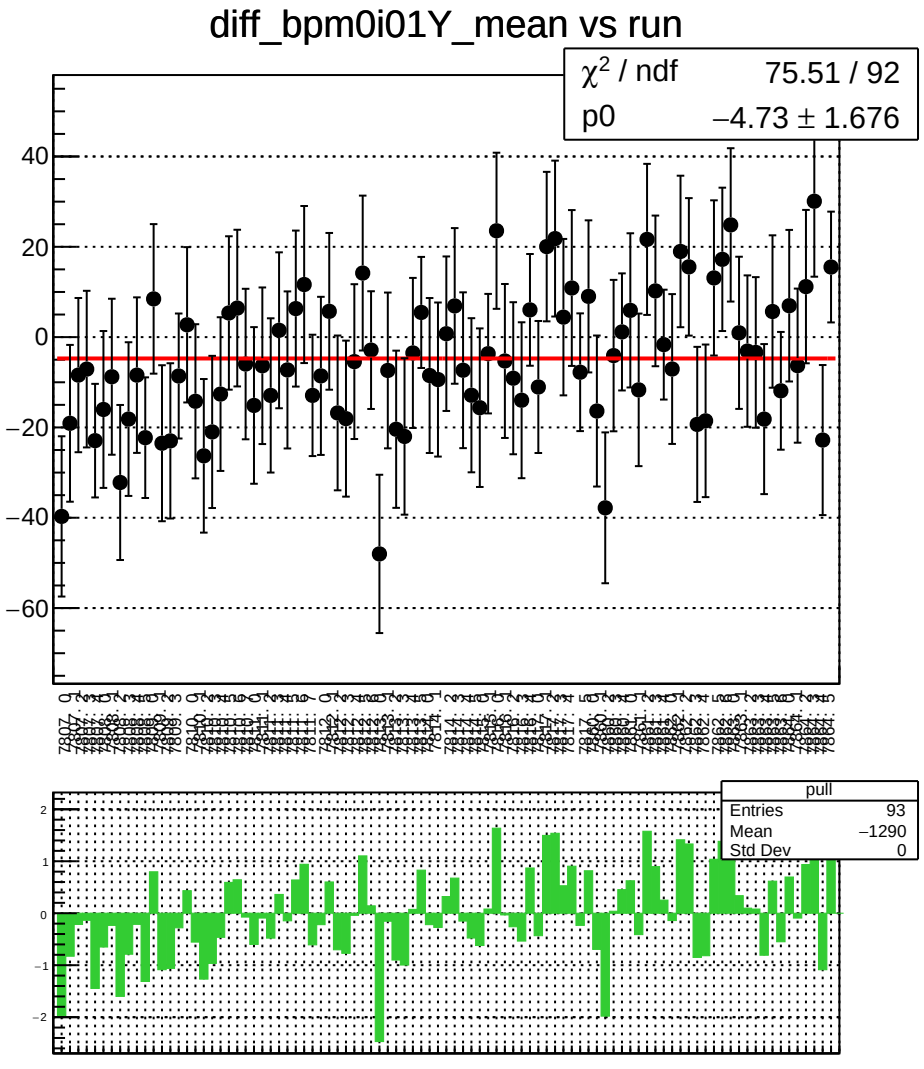

pull1D
Entries 93
Mean 0.01859
Std Dev 1.054
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

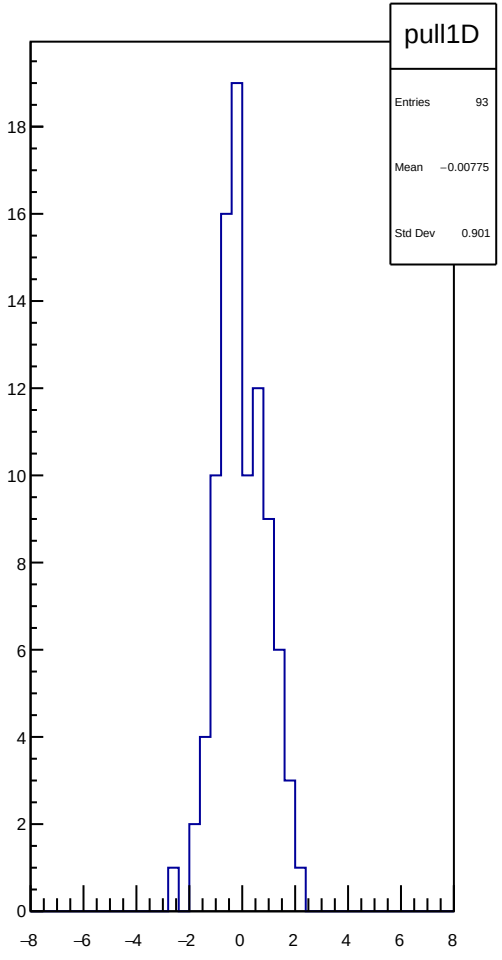

diff_cav4dY_rms vs run
×10^3
χ^2 / ndf 1.11e+04 / 92
p0 1.371e+05 ± 101.1
180
170
160
150
140
130
120
110

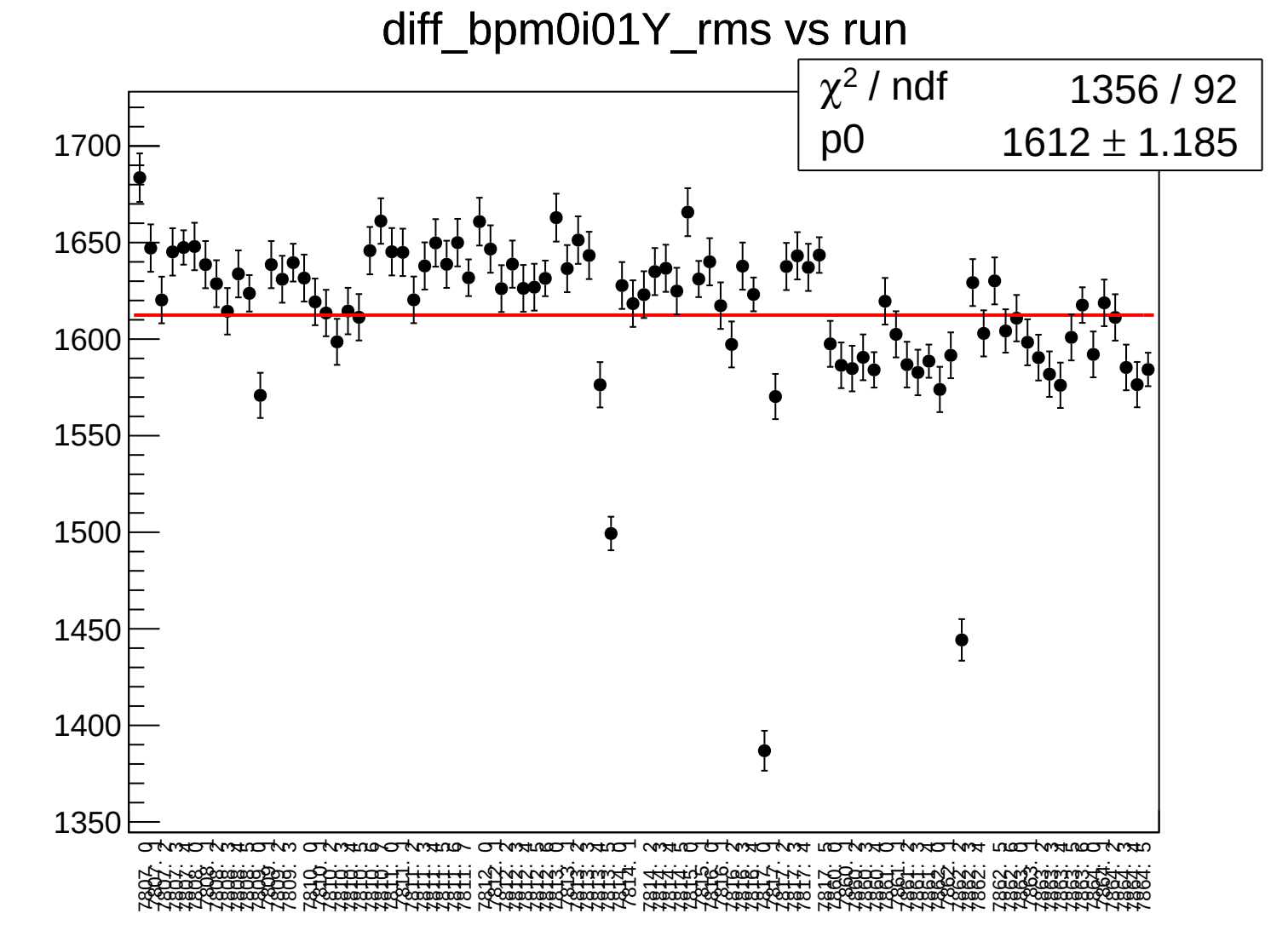

diff_bpm0i01X_mean vs run
χ² / ndf 80.82 / 92
p0 −39.02 ± 1.788
pull
Entries 93
Mean 869.5
Std Dev 0

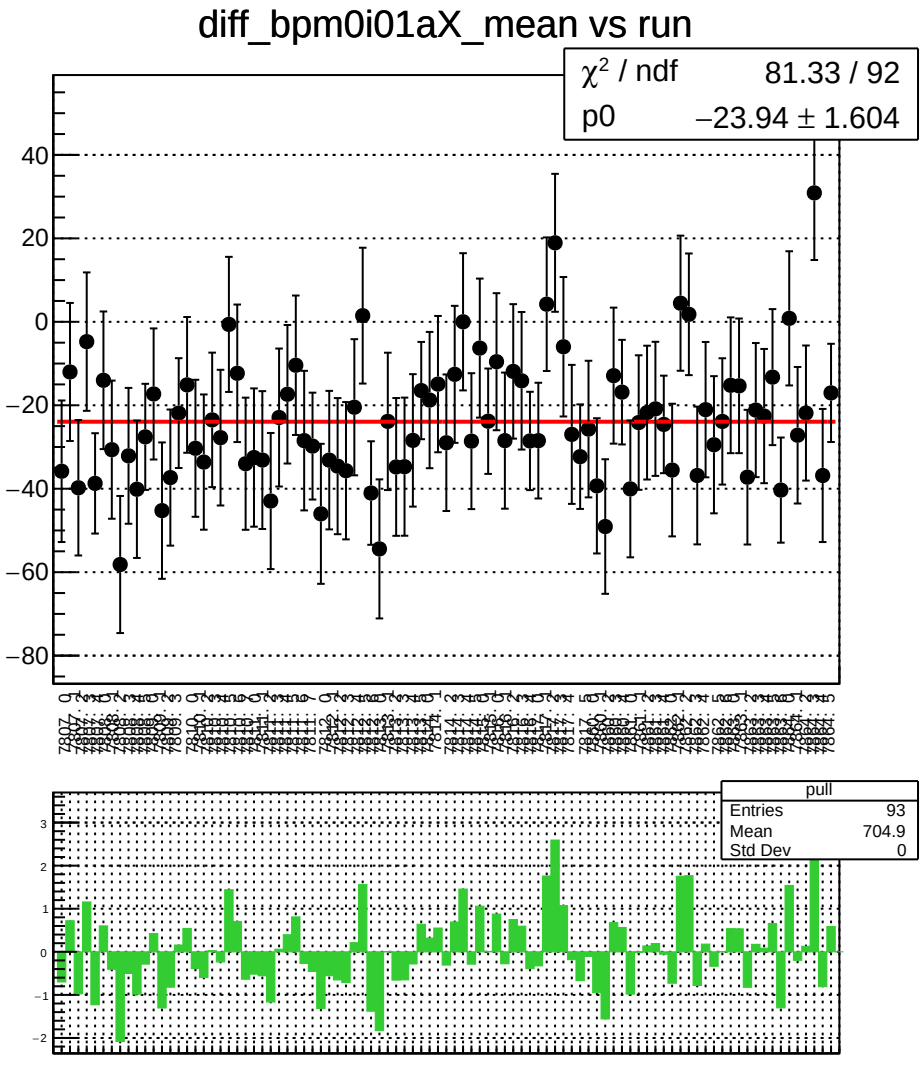

pull1D
Entries 93
Mean 0.0084
Std Dev 0.9322

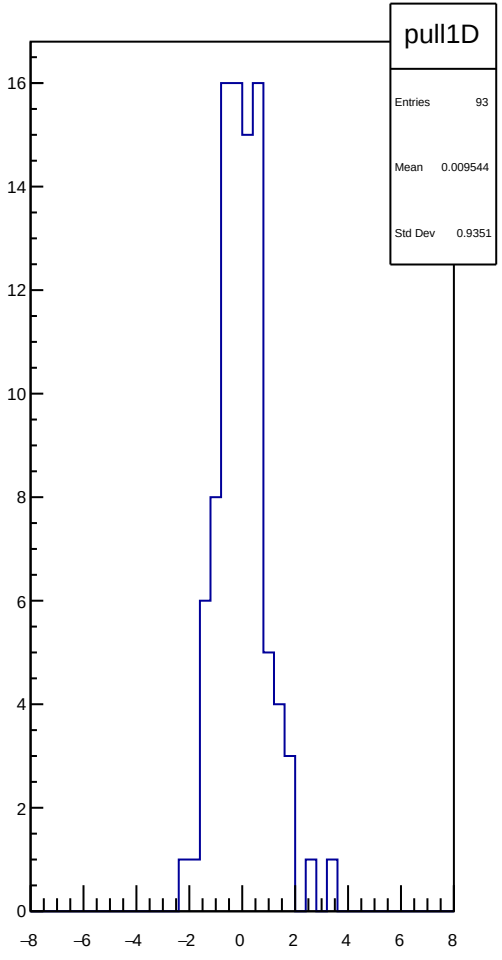

diff_bpm0i01X_rms vs run
χ² / ndf 1451 / 92
p0 1720 ± 1.264
1800
1750
1700
1650
1600
1550
1500
1450
1400

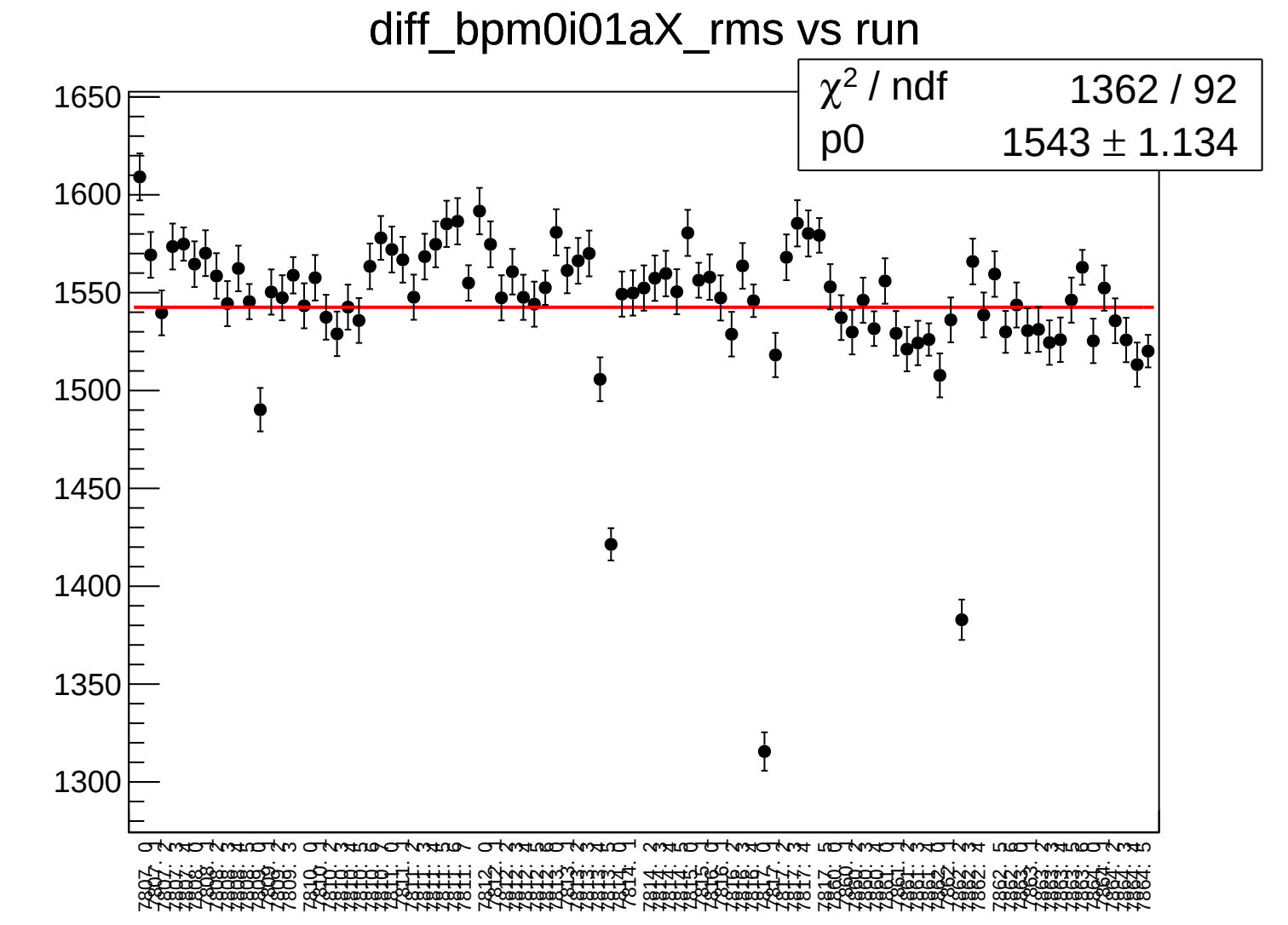

diff_bpm0i01Y_mean vs run
χ² / ndf 75.51 / 92
p0 −4.73 ± 1.676
pull
Entries 93
Mean −1290
Std Dev 0

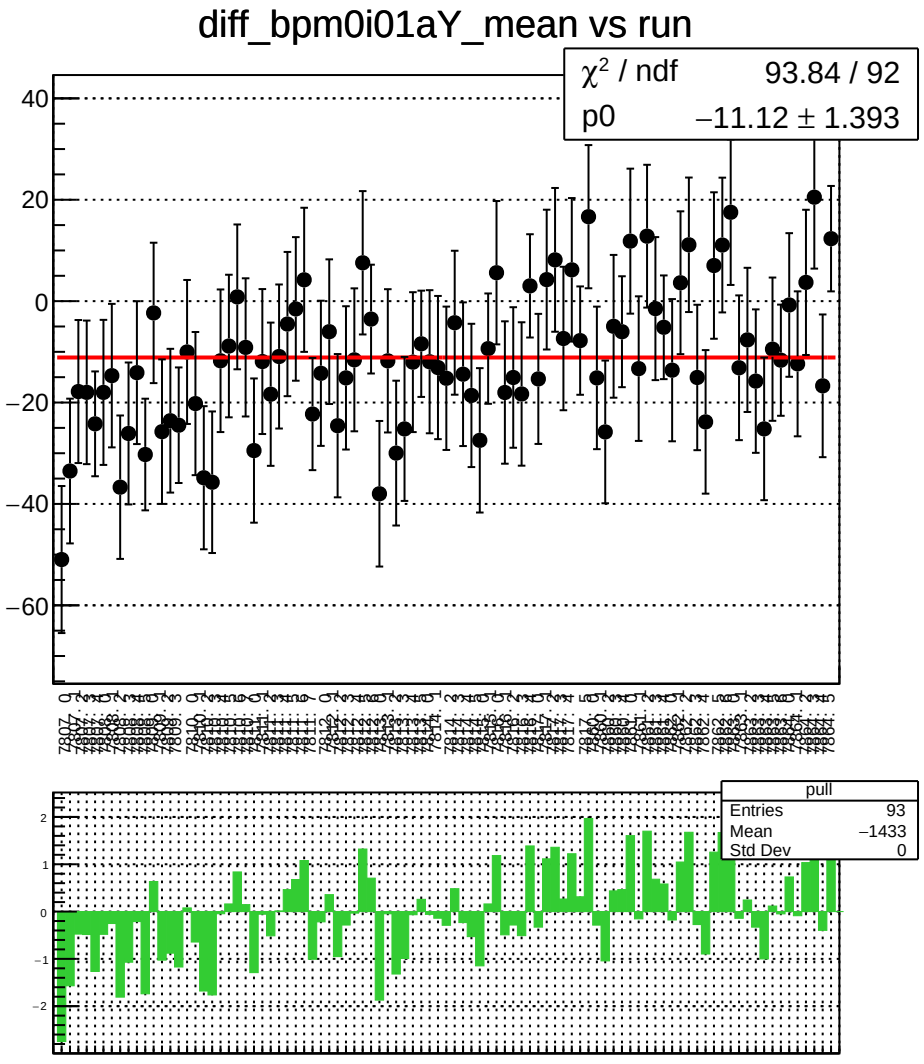

pull1D
Entries 93
Mean −0.00775
Std Dev 0.901

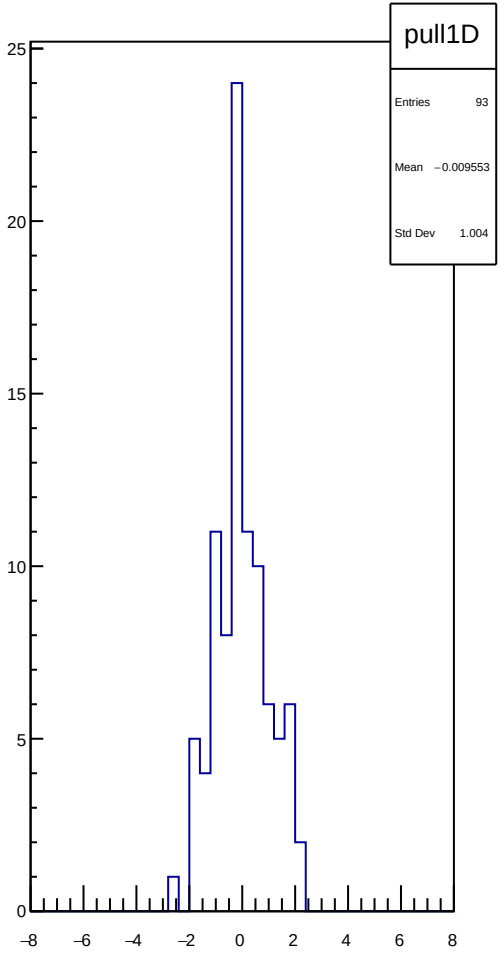

diff_bpm0i01Y_rms vs run
χ² / ndf 1356 / 92
p0 1612 ± 1.185
1700
1650
1600
1550
1500
1450
1400
1350

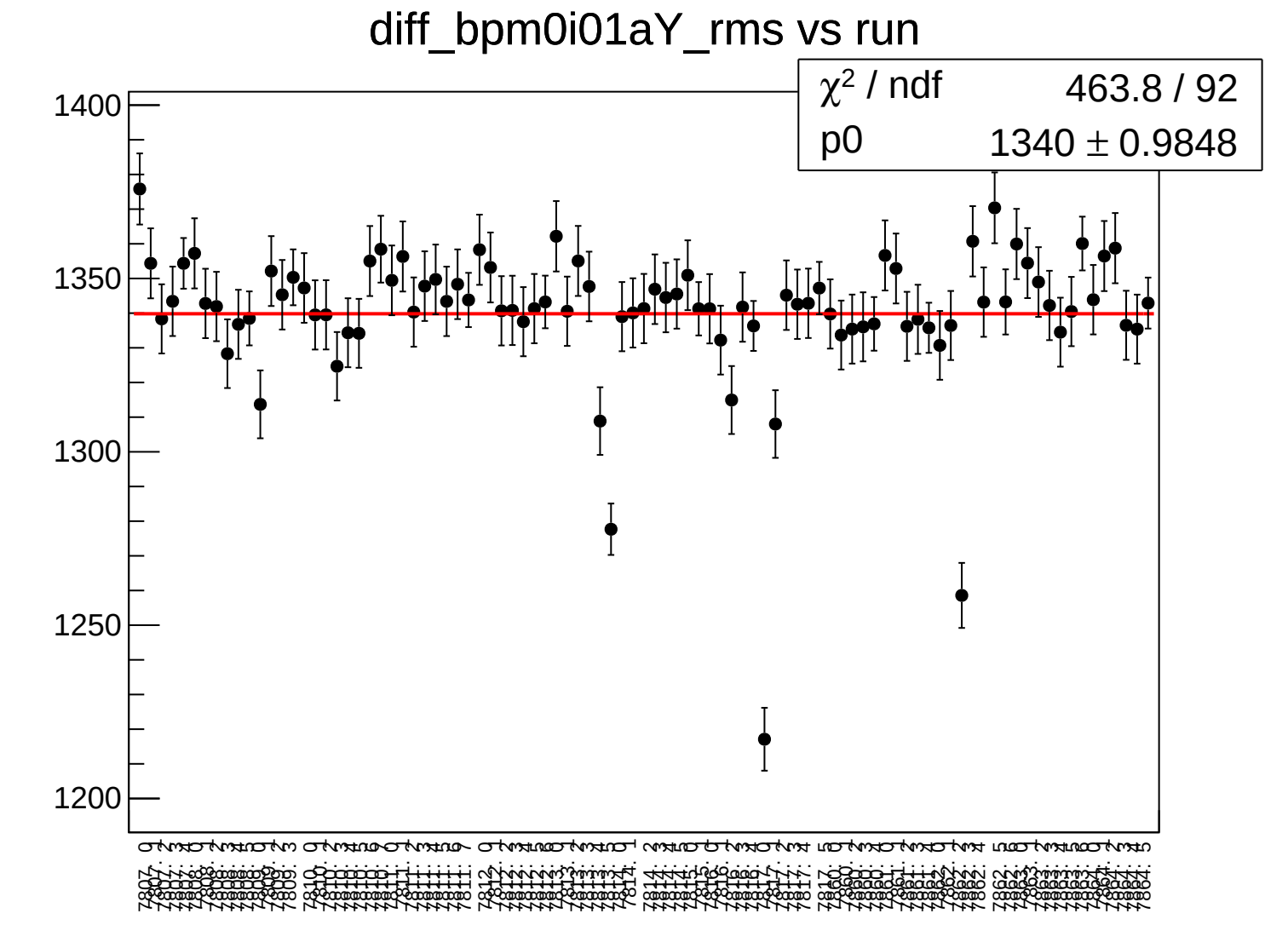

diff_bpm0i01aX_mean vs run
χ² / ndf 81.33 / 92
p0 −23.94 ± 1.604
pull
Entries 93
Mean 704.9
Std Dev 0

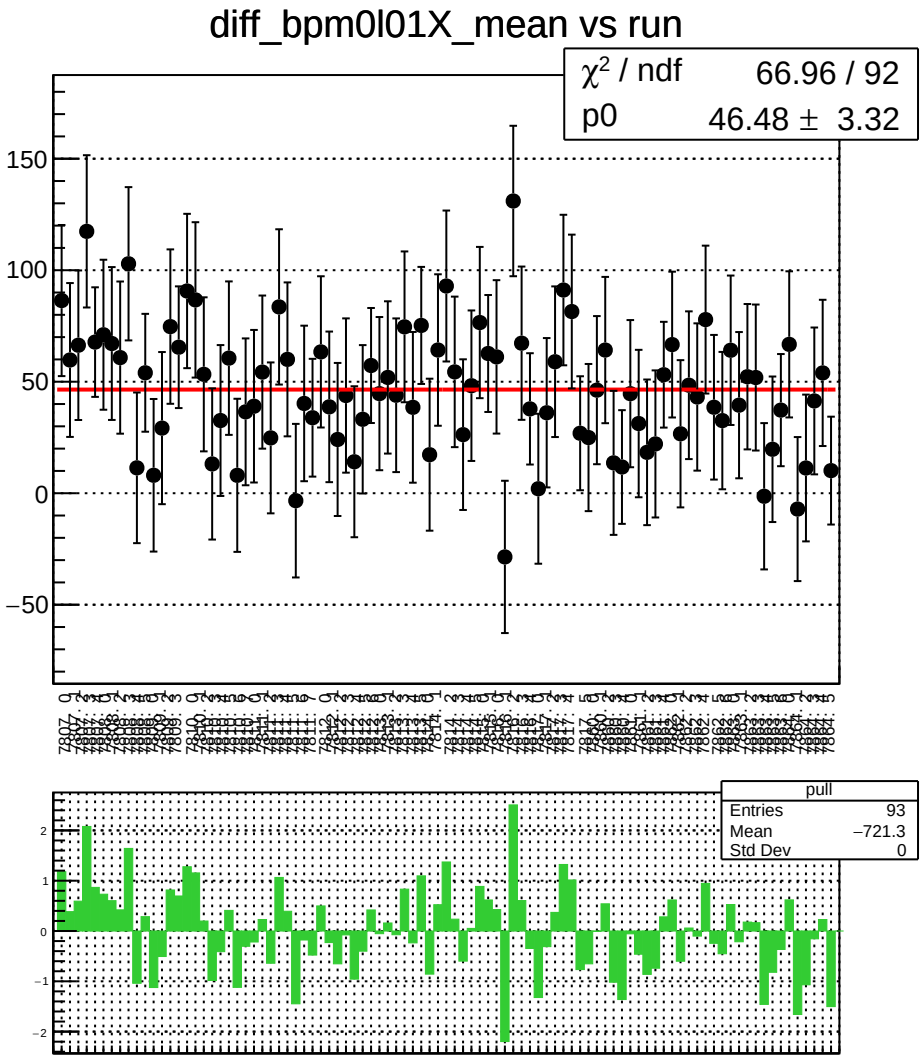

pull1D
Entries 93
Mean 0.009544
Std Dev 0.9351

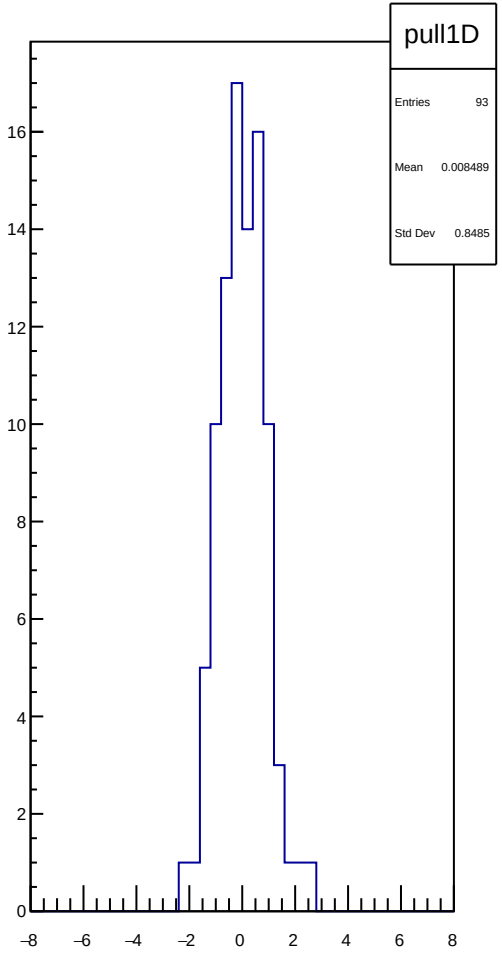

diff_bpm0i01aX_rms vs run
χ² / ndf 1362 / 92
p0 1543 ± 1.134
1650
1600
1550
1500
1450
1400
1350
1300

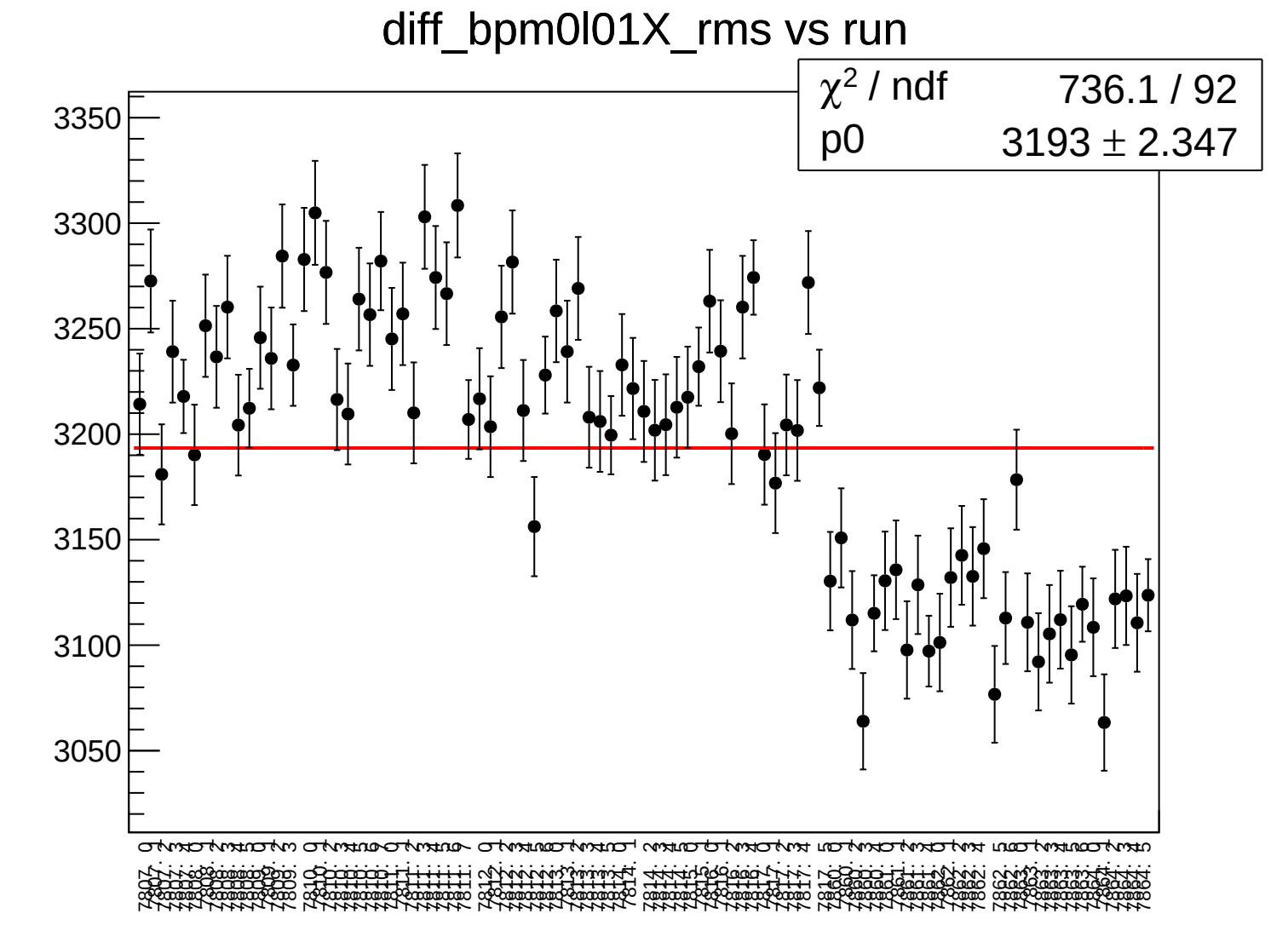

diff_bpm0i01aY_mean vs run
χ² / ndf 93.84 / 92
p0 −11.12 ± 1.393
pull
Entries 93
Mean −1433
Std Dev 0

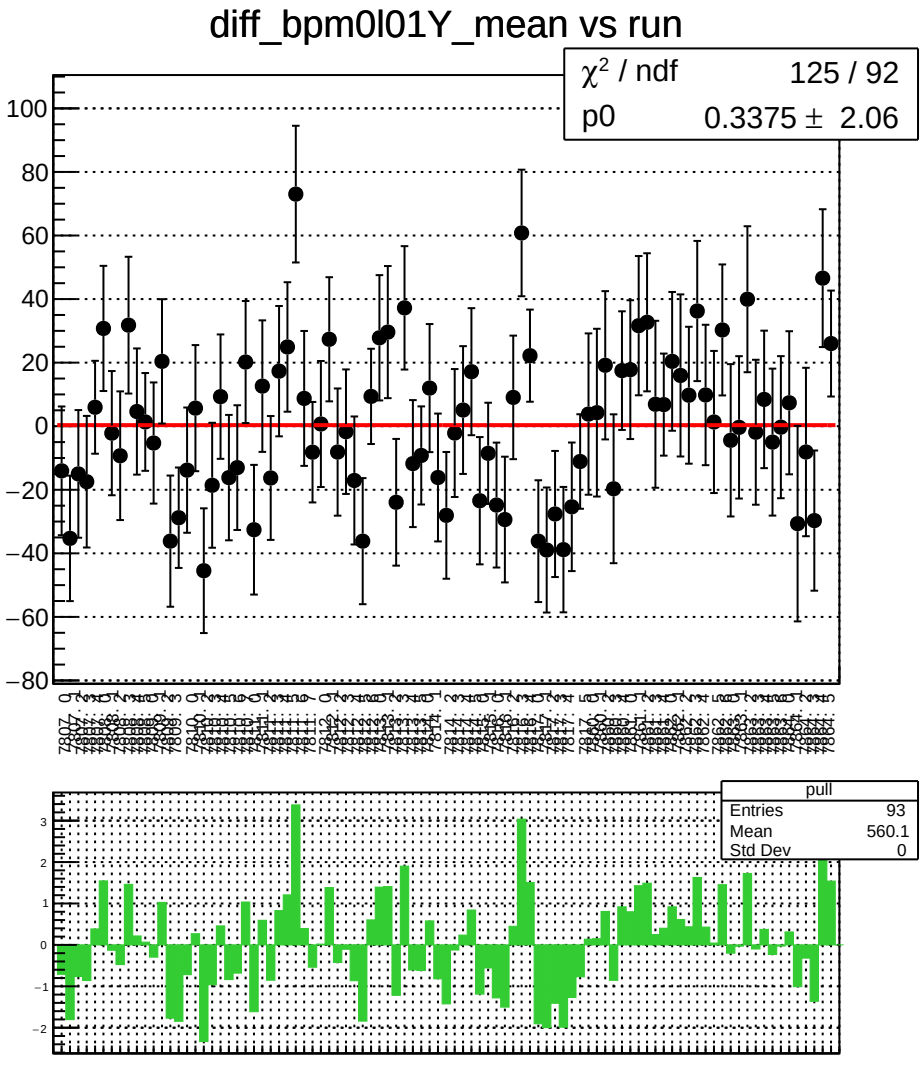

pull1D
Entries 93
Mean −0.009553
Std Dev 1.004

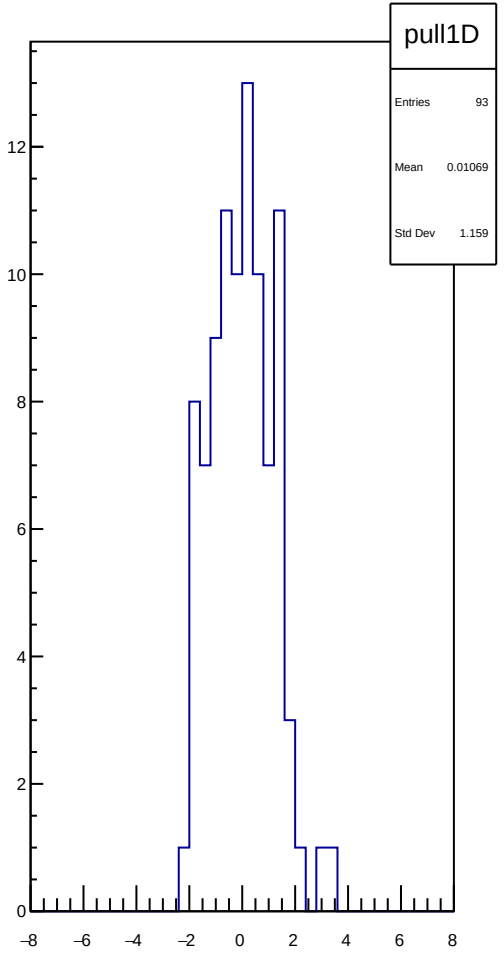

diff_bpm0i01aY_rms vs run
χ² / ndf 463.8 / 92
p0 1340 ± 0.9848
1400
1350
1300
1250
1200

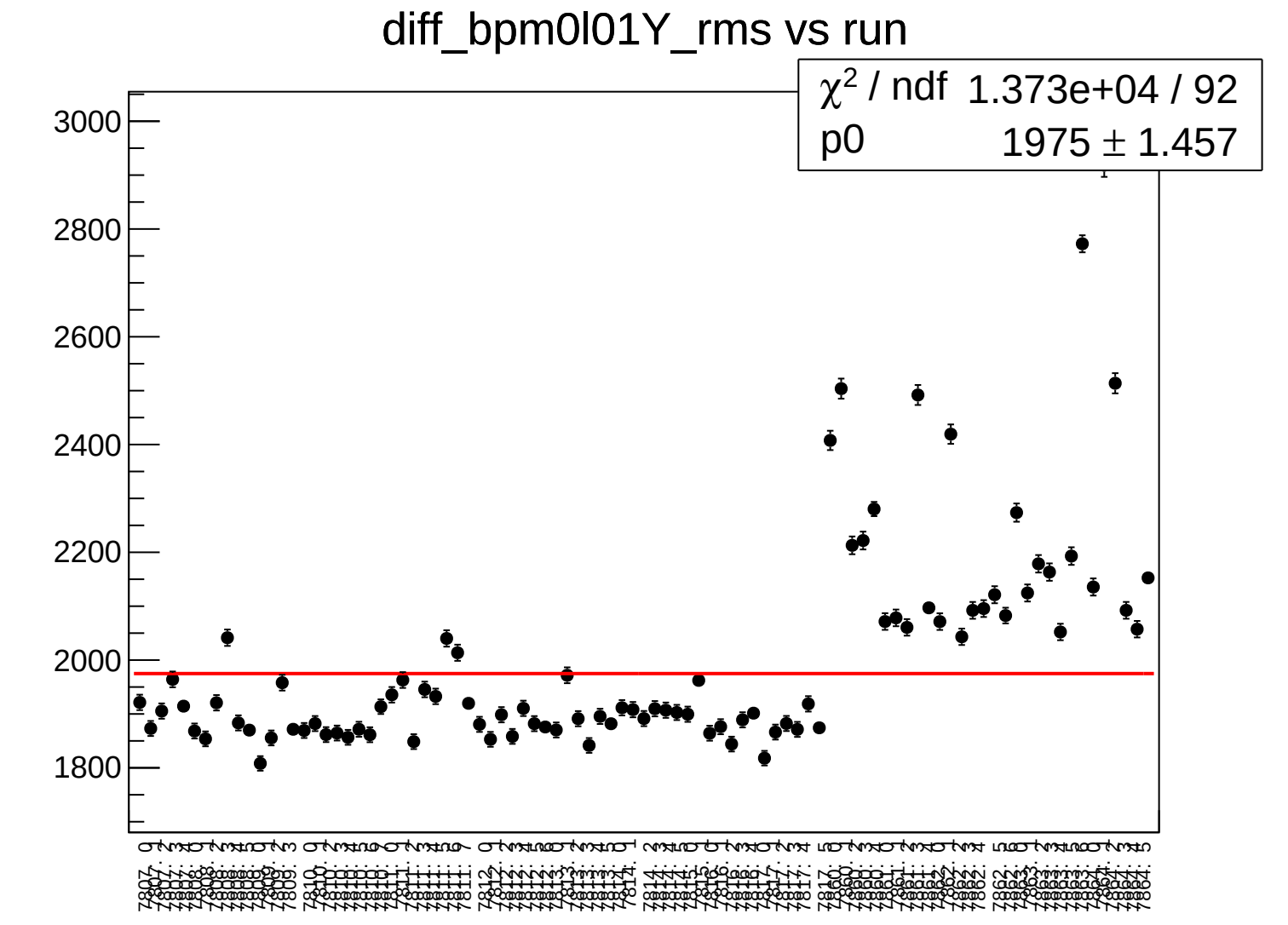

diff_bpm0l01X_mean vs run
χ² / ndf 66.96 / 92
p0 46.48 ± 3.32
150
100
50
0
−50
pull
Entries 93
Mean −721.3
Std Dev 0
2
1
0
−1
−2

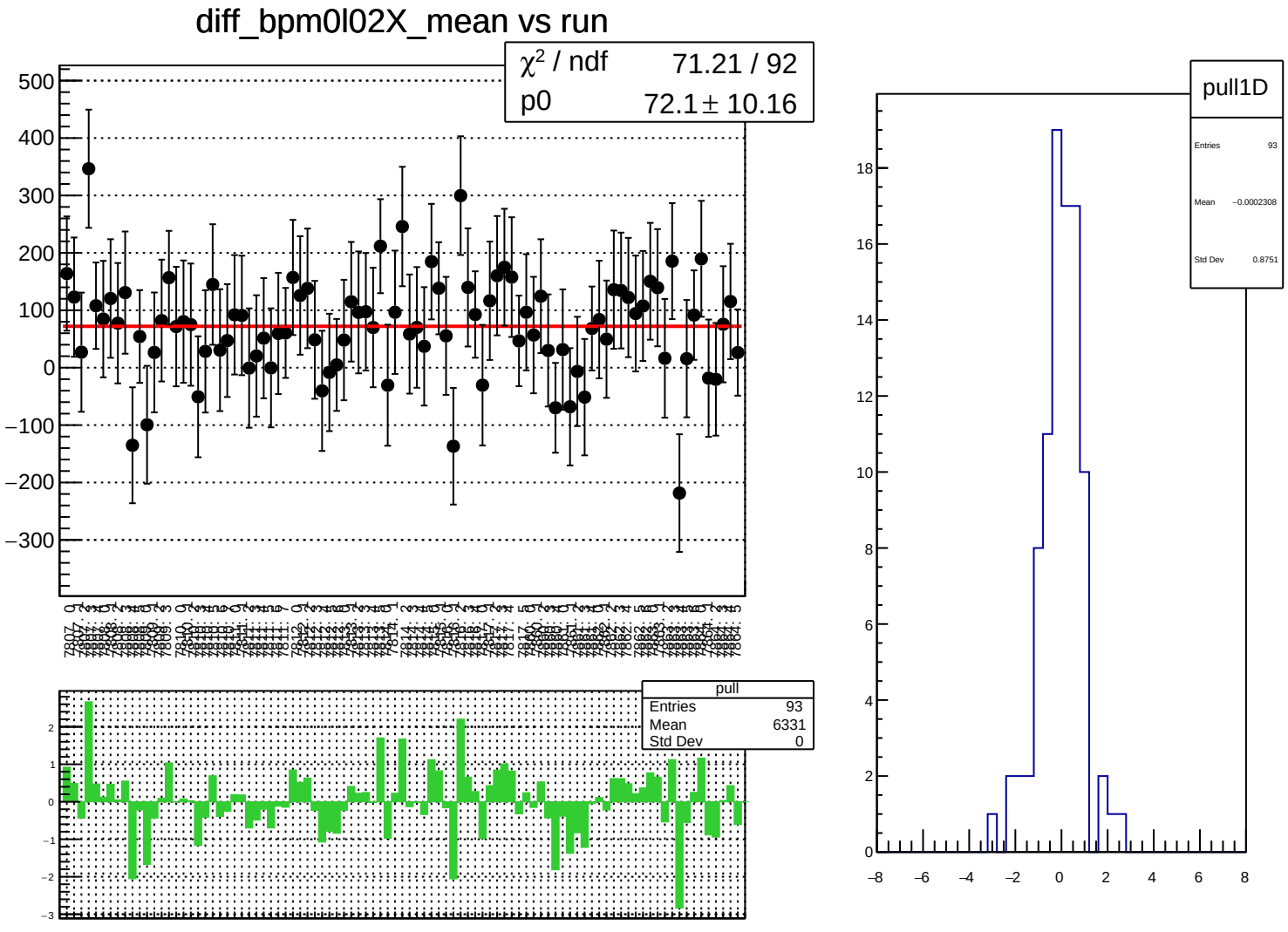

pull1D
Entries 93
Mean 0.008489
Std Dev 0.8485
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

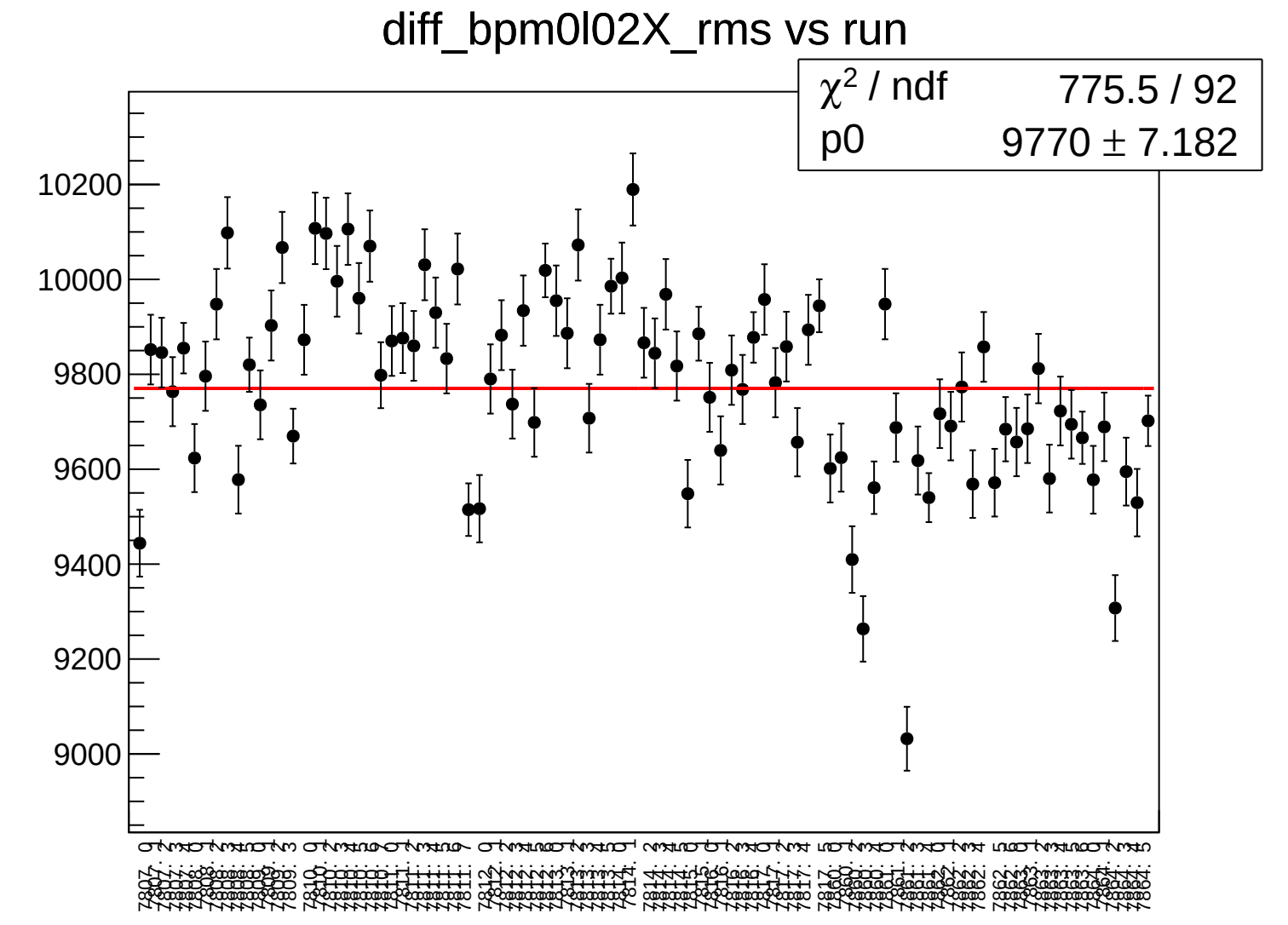

diff_bpm0l01X_rms vs run
χ² / ndf 736.1 / 92
p0 3193 ± 2.347
3350
3300
3250
3200
3150
3100
3050

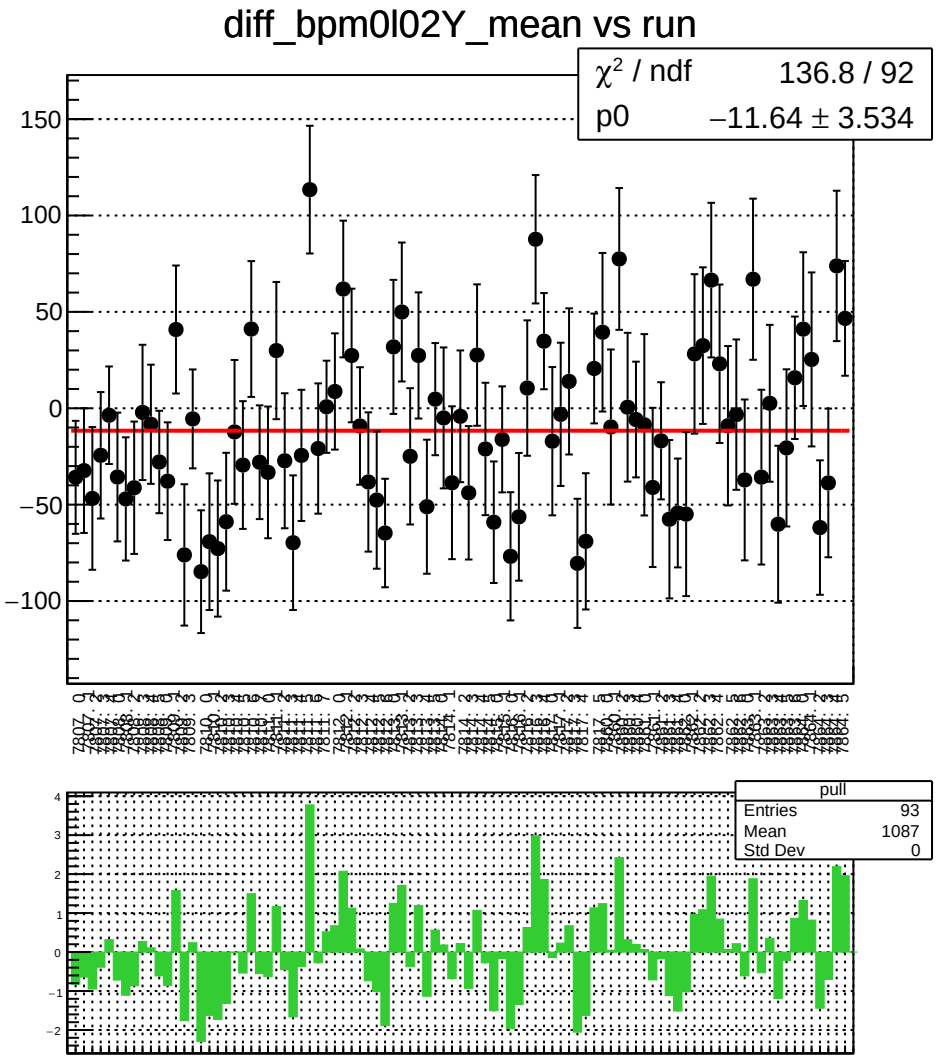

diff_bpm0l01Y_mean vs run
χ² / ndf 125 / 92
p0 0.3375 ± 2.06
pull
Entries 93
Mean 560.1
Std Dev 0

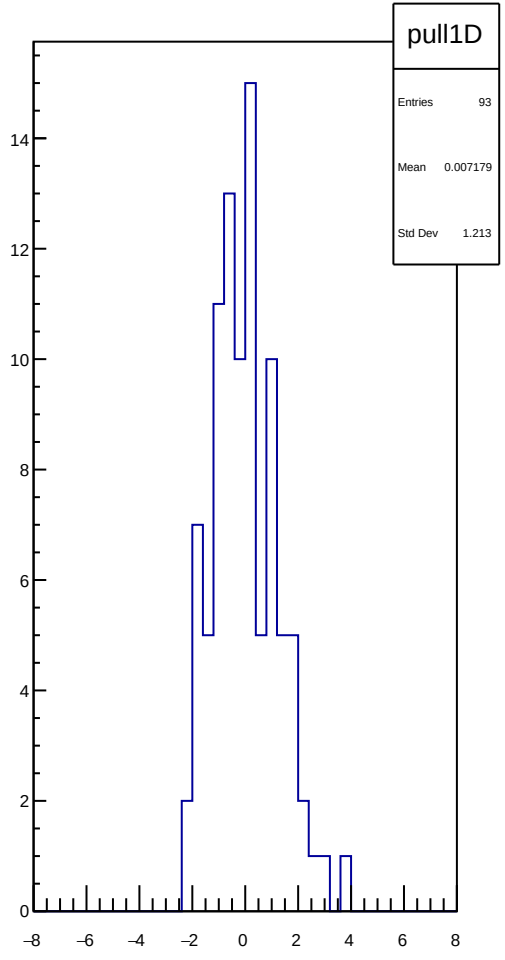

pull1D
Entries 93
Mean 0.01069
Std Dev 1.159

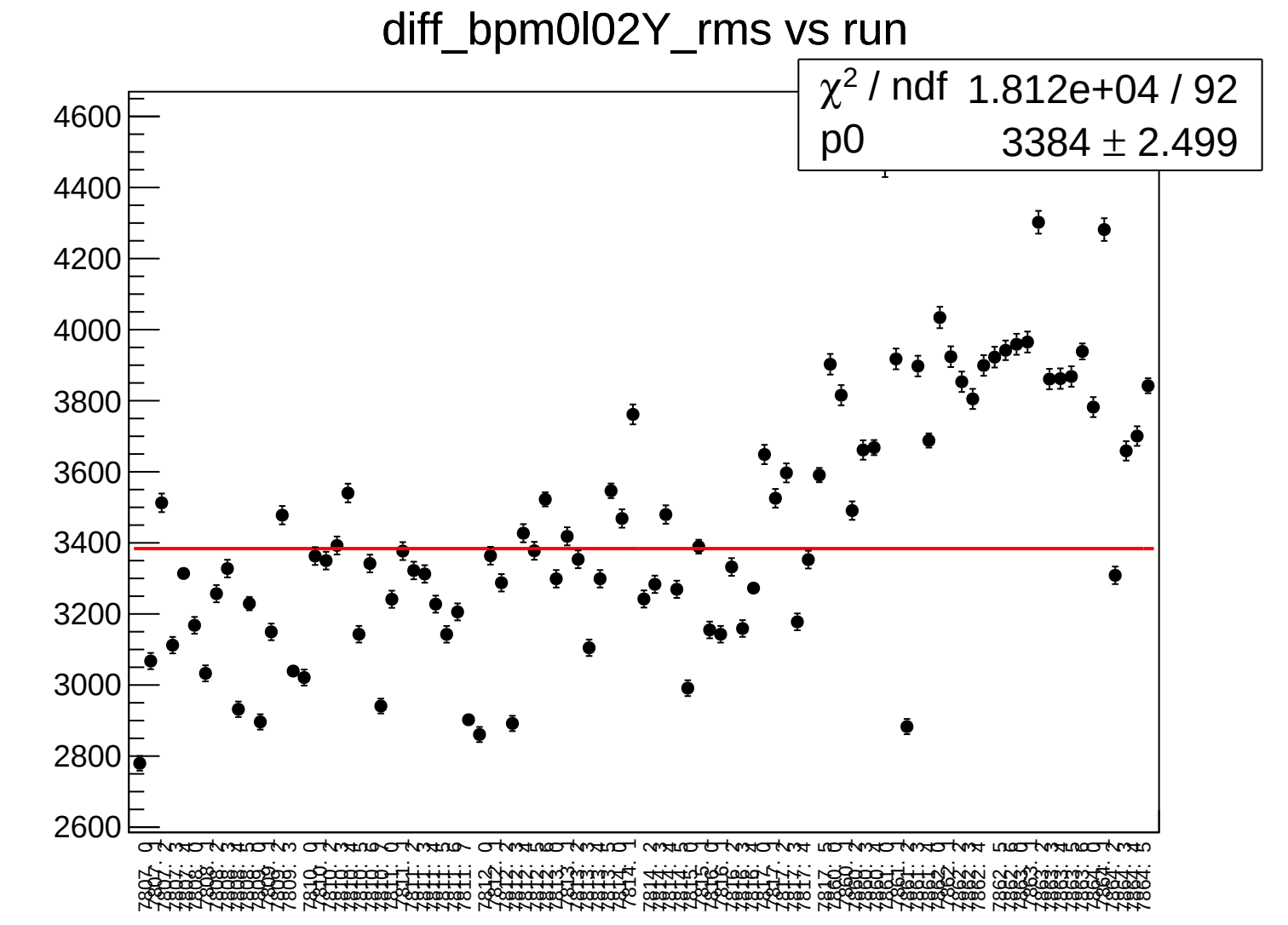

diff_bpm0l01Y_rms vs run
χ² / ndf 1.373e+04 / 92
p0 1975 ± 1.457
3000
2800
2600
2400
2200
2000
1800

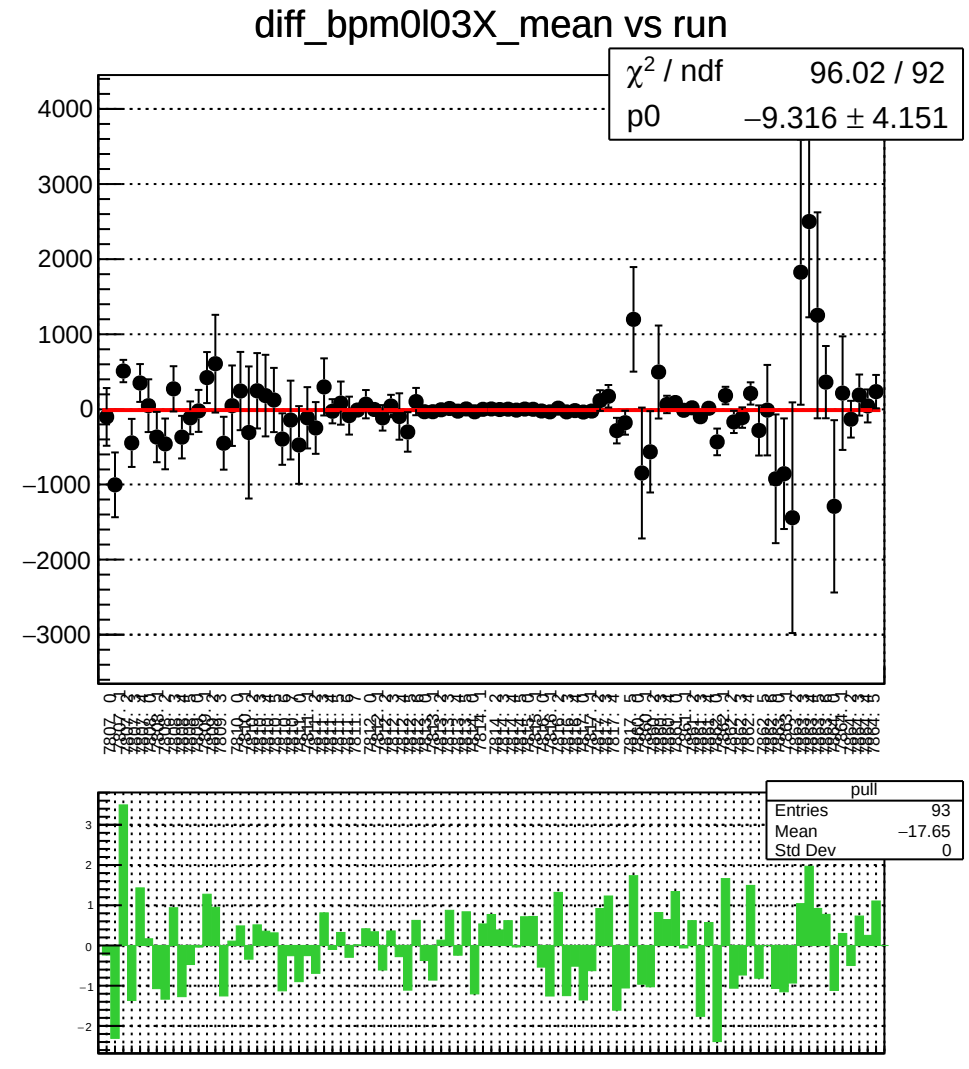

diff_bpm0l02X_mean vs run
χ² / ndf 71.21 / 92
p0 72.1 ± 10.16
pull
Entries 93
Mean 6331
Std Dev 0
pull1D
Entries 93
Mean −0.0002308
Std Dev 0.8751

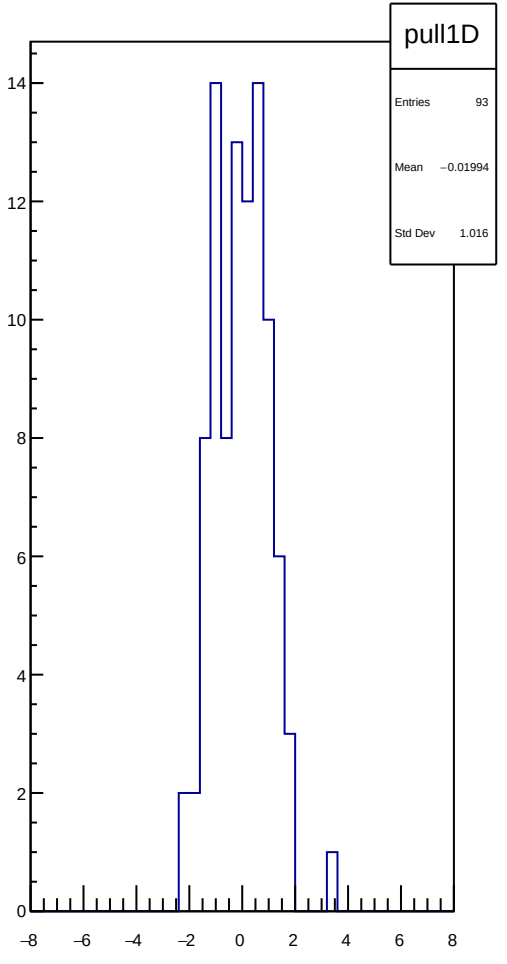

diff_bpm0l02X_rms vs run
χ² / ndf 775.5 / 92
p0 9770 ± 7.182
10200
10000
9800
9600
9400
9200
9000

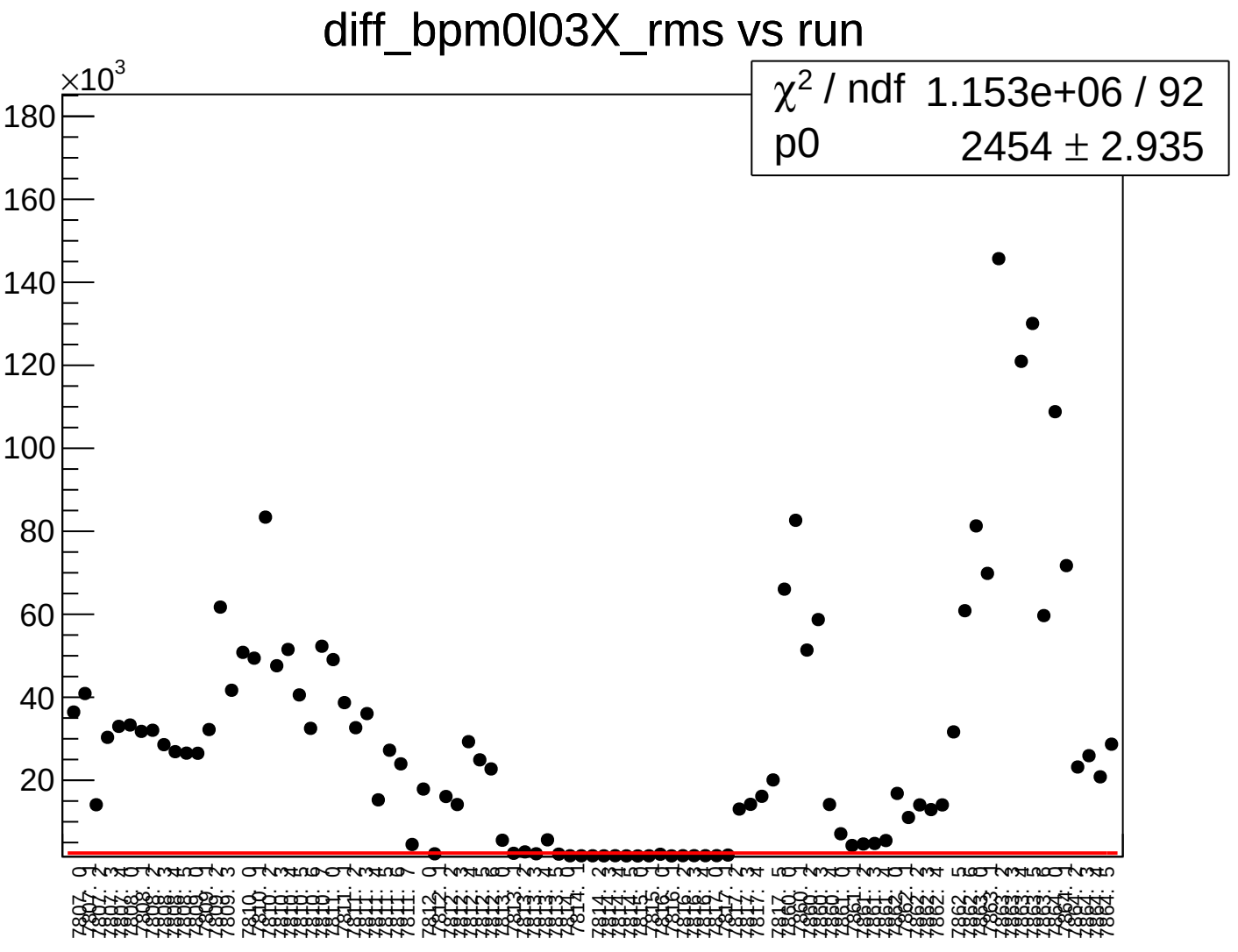

diff_bpm0l02Y_mean vs run
χ² / ndf 136.8 / 92
p0 −11.64 ± 3.534
150
100
50
0
−50
−100
pull
Entries 93
Mean 1087
Std Dev 0
4
3
2
1
0
−1
−2

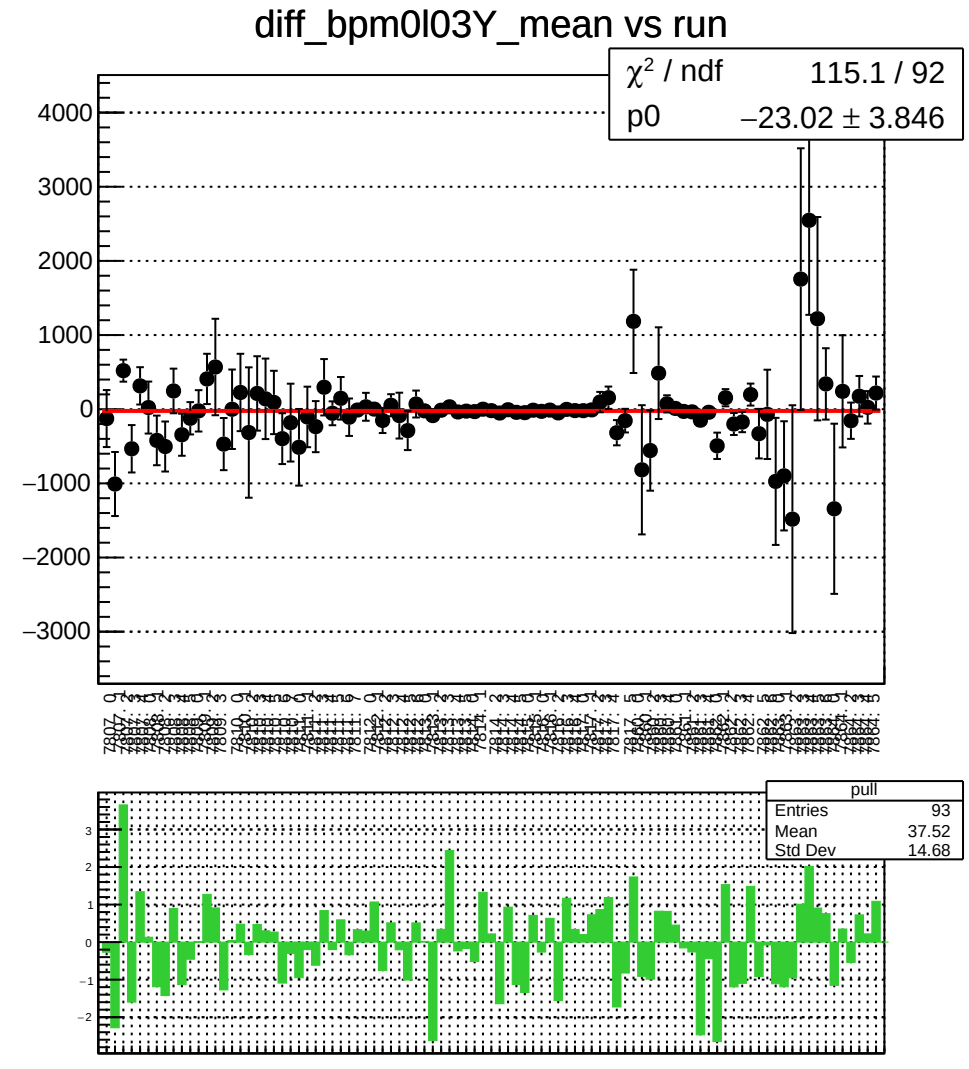

pull1D
Entries 93
Mean 0.007179
Std Dev 1.213
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

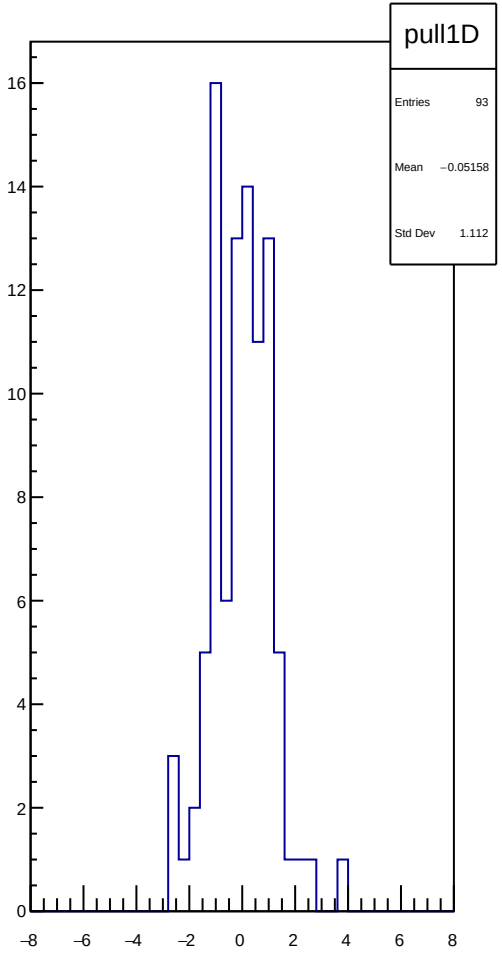

diff_bpm0l02Y_rms vs run
χ^2 / ndf 1.812e+04 / 92
p0 3384 ± 2.499
4600
4400
4200
4000
3800
3600
3400
3200
3000
2800
2600

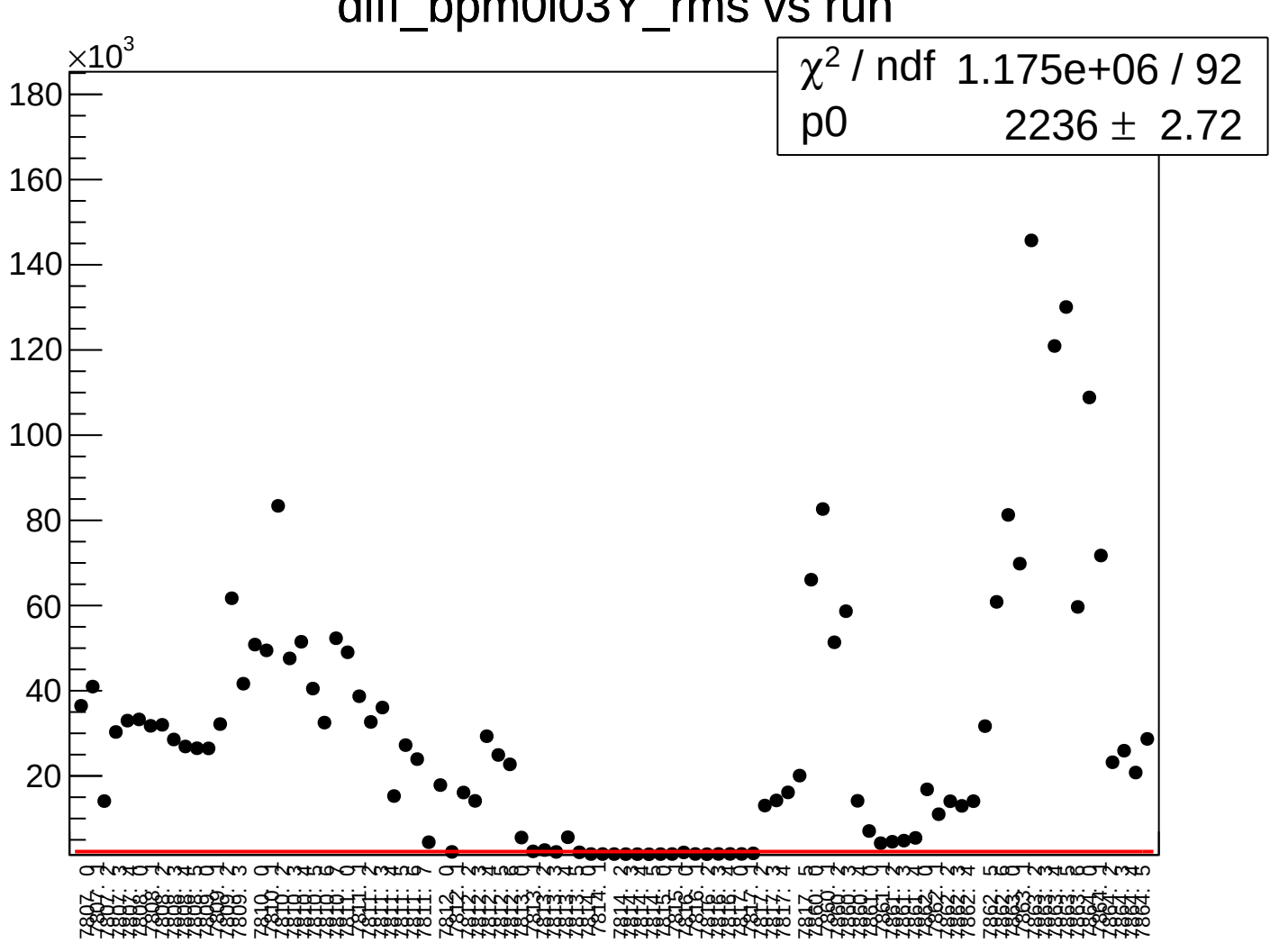

diff_bpm0l03X_mean vs run
χ² / ndf 96.02 / 92
p0 −9.316 ± 4.151
pull
Entries 93
Mean −17.65
Std Dev 0

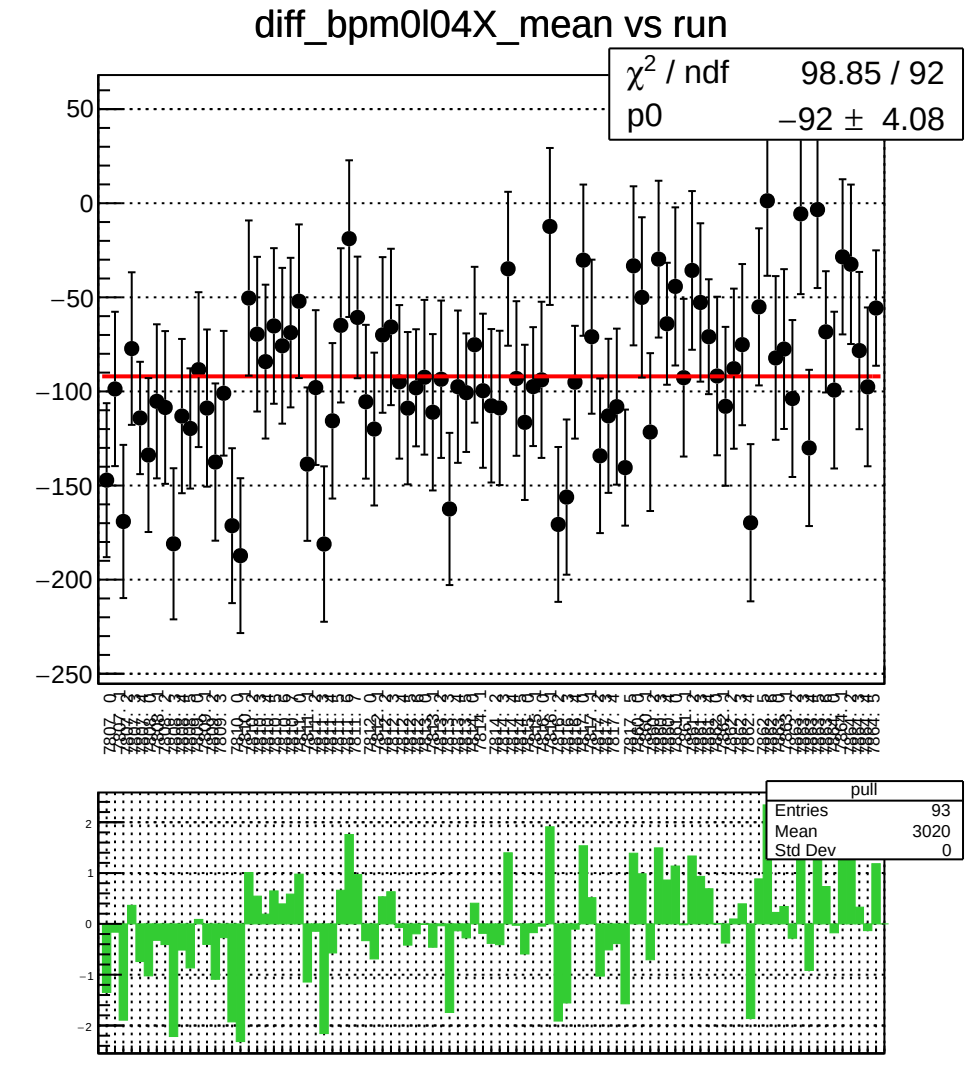

pull1D
Entries 93
Mean −0.01994
Std Dev 1.016

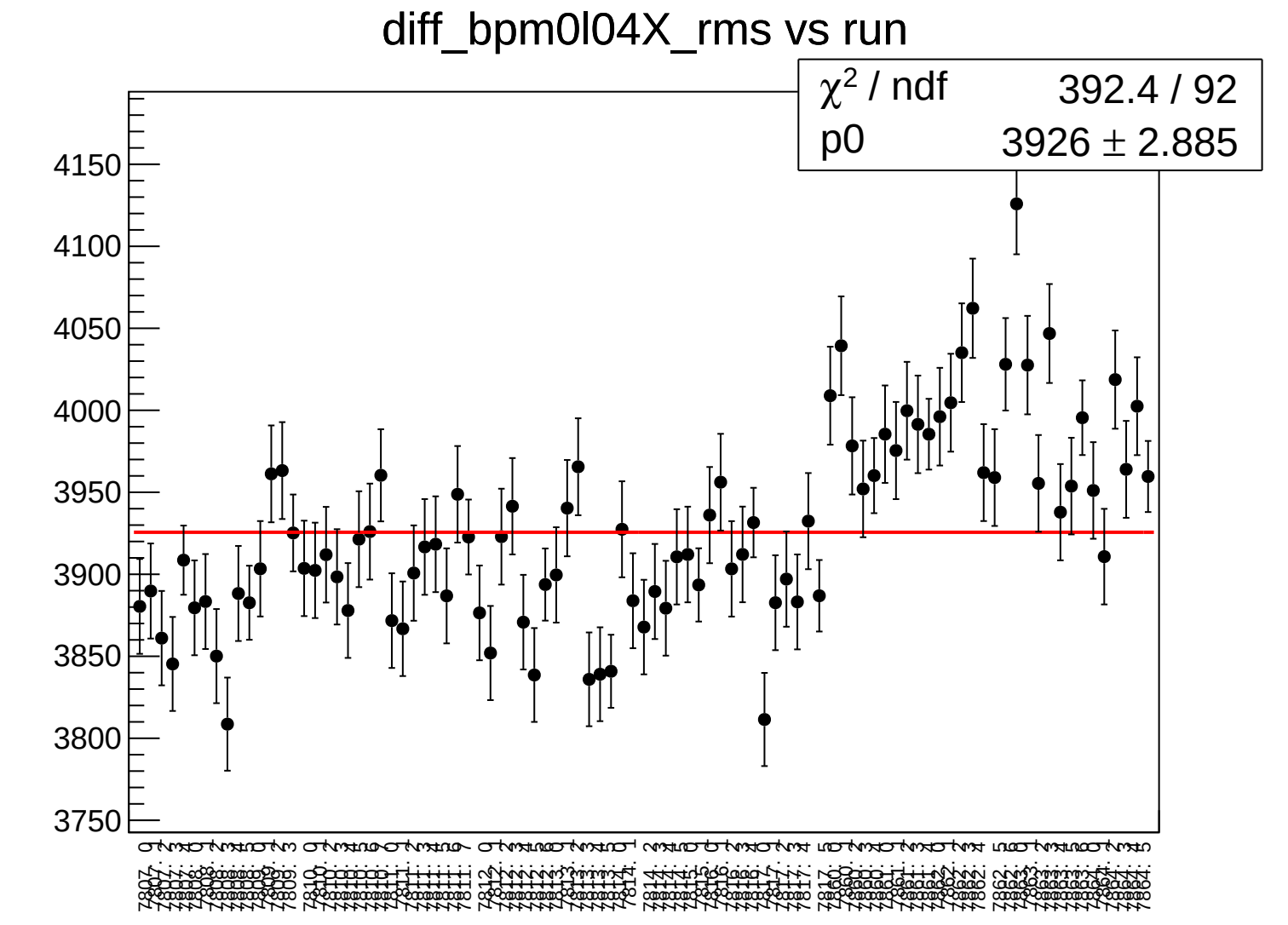

diff_bpm0l03X_rms vs run
×10^3
χ^2 / ndf 1.153e+06 / 92
p0 2454 ± 2.935
180
160
140
120
100
80
60
40
20

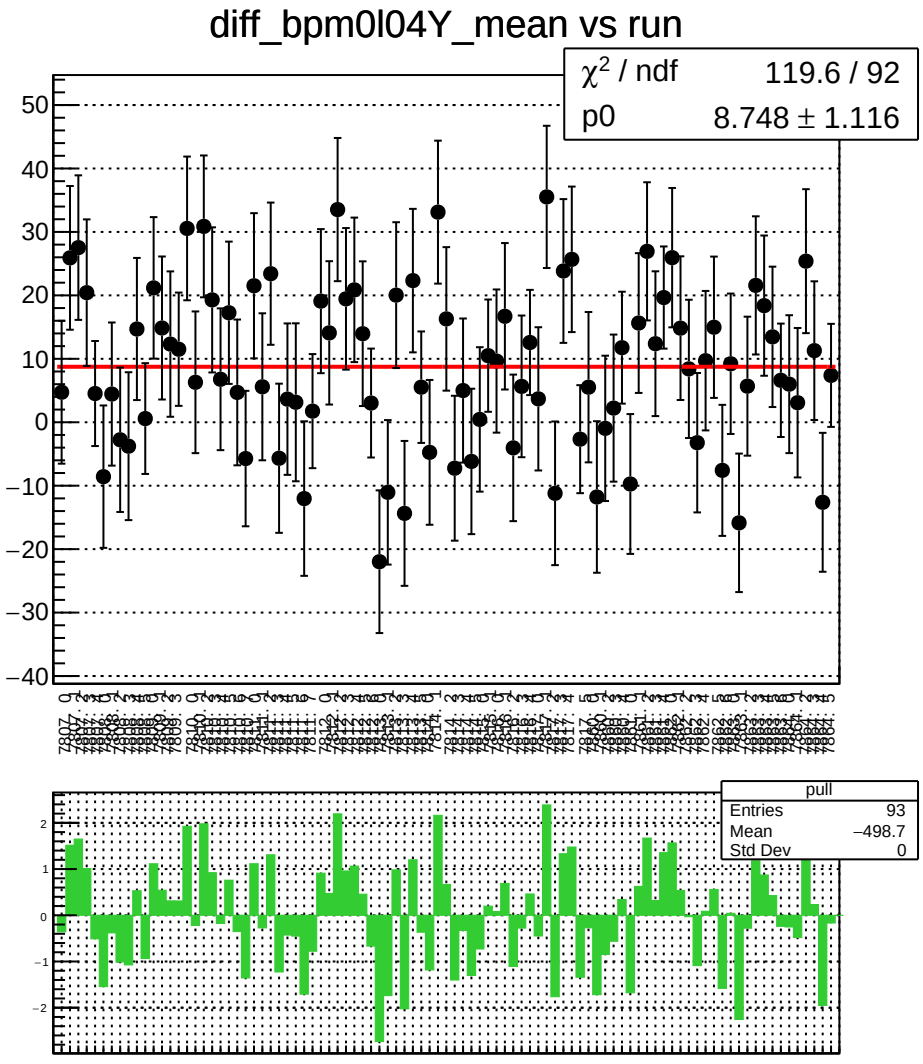

diff_bpm0l03Y_mean vs run
χ² / ndf 115.1 / 92
p0 −23.02 ± 3.846
pull
Entries 93
Mean 37.52
Std Dev 14.68

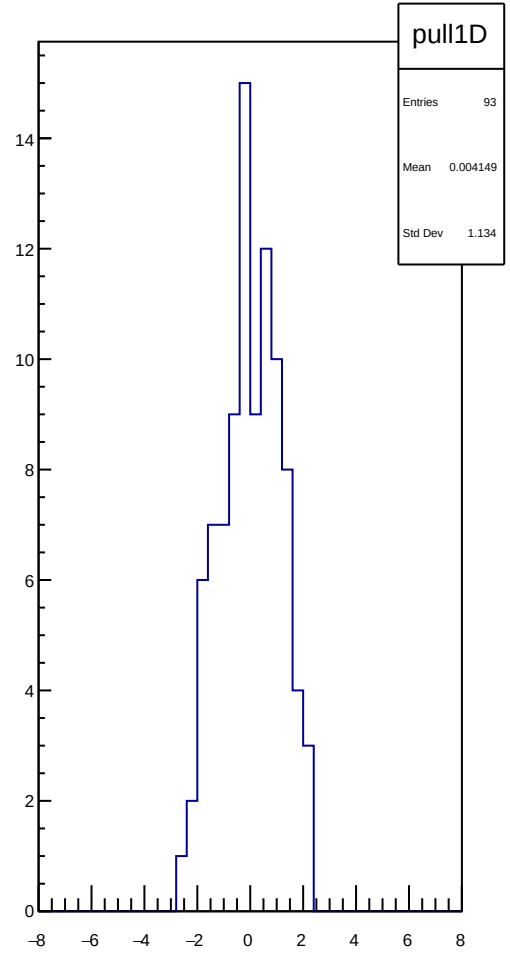

pull1D
Entries 93
Mean −0.05158
Std Dev 1.112

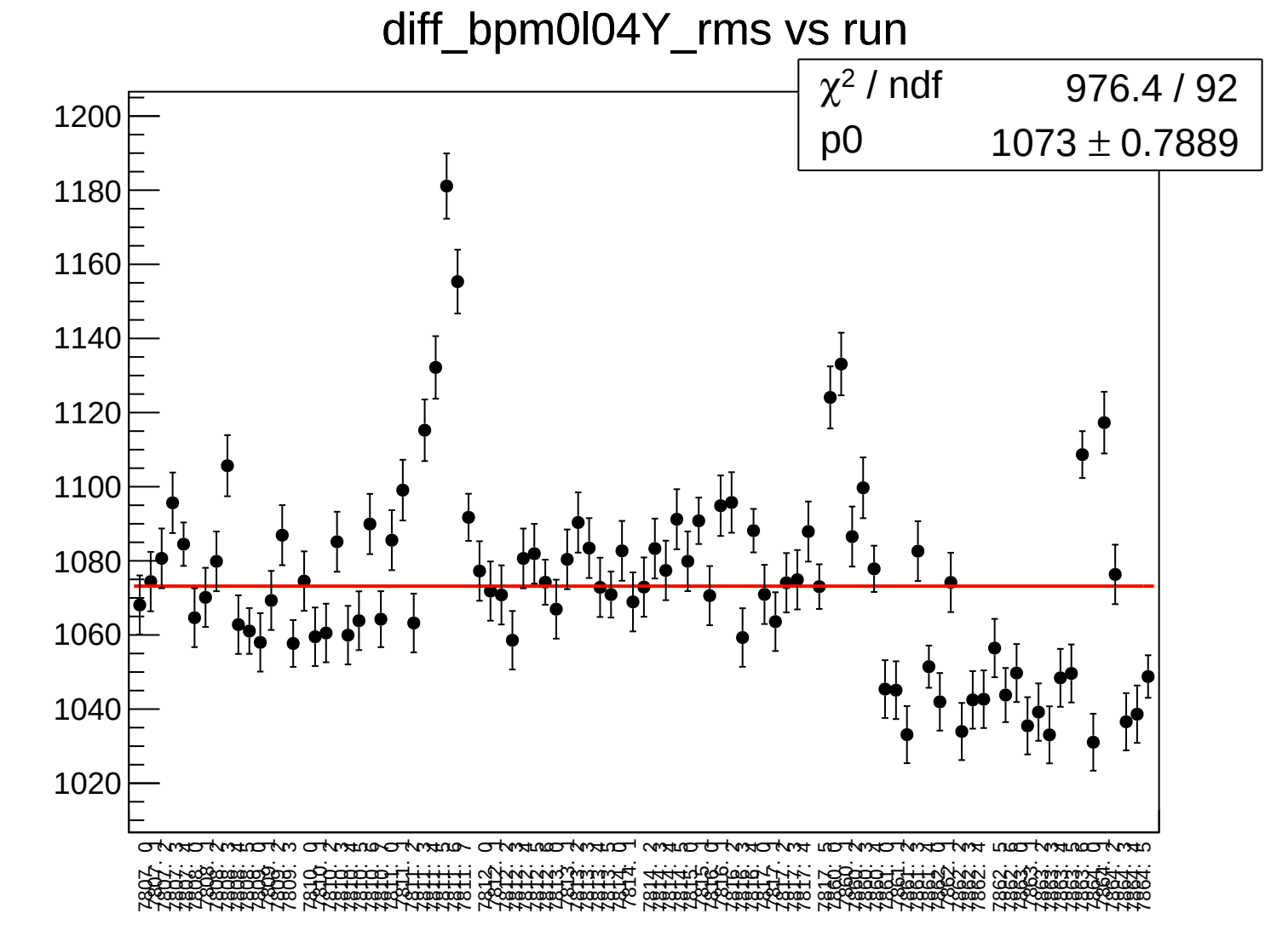

diff_bpm0l03Y_rms vs run
×10^3
180
160
140
120
100
80
60
40
20
χ² / ndf 1.175e+06 / 92
p0 2236 ± 2.72

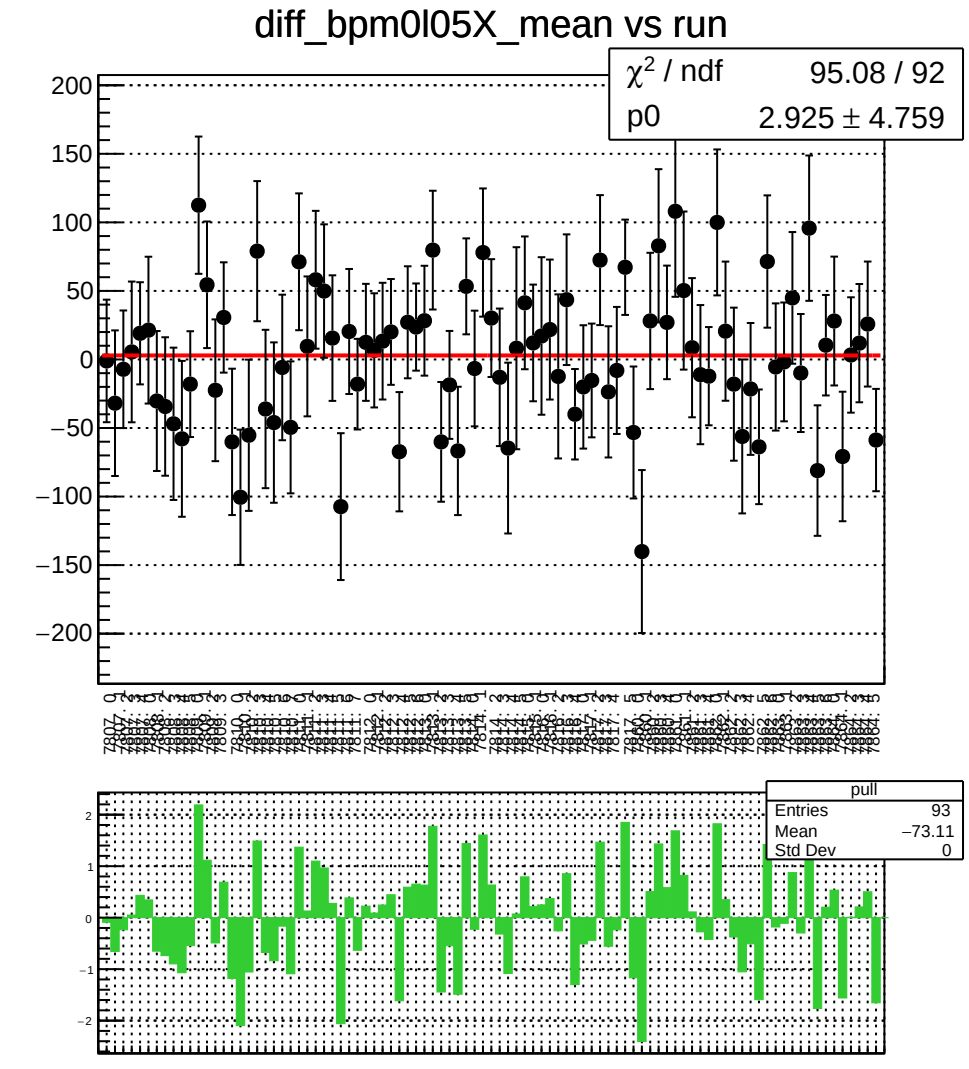

diff_bpm0l04X_mean vs run
χ² / ndf 98.85 / 92
p0 −92 ± 4.08
pull
Entries 93
Mean 3020
Std Dev 0
pull1D
Entries 93
Mean 0.003658
Std Dev 1.031

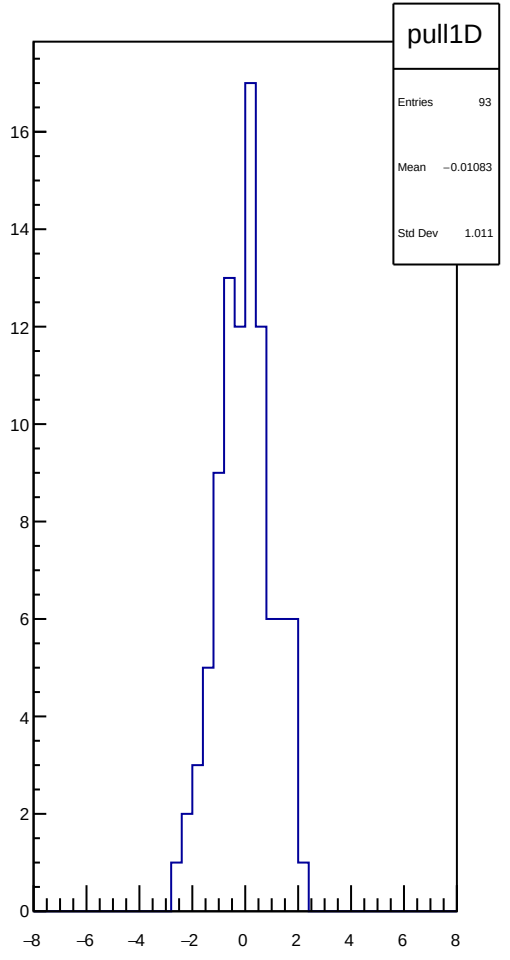

diff_bpm0l04X_rms vs run
χ² / ndf 392.4 / 92
p0 3926 ± 2.885
4150
4100
4050
4000
3950
3900
3850
3800
3750

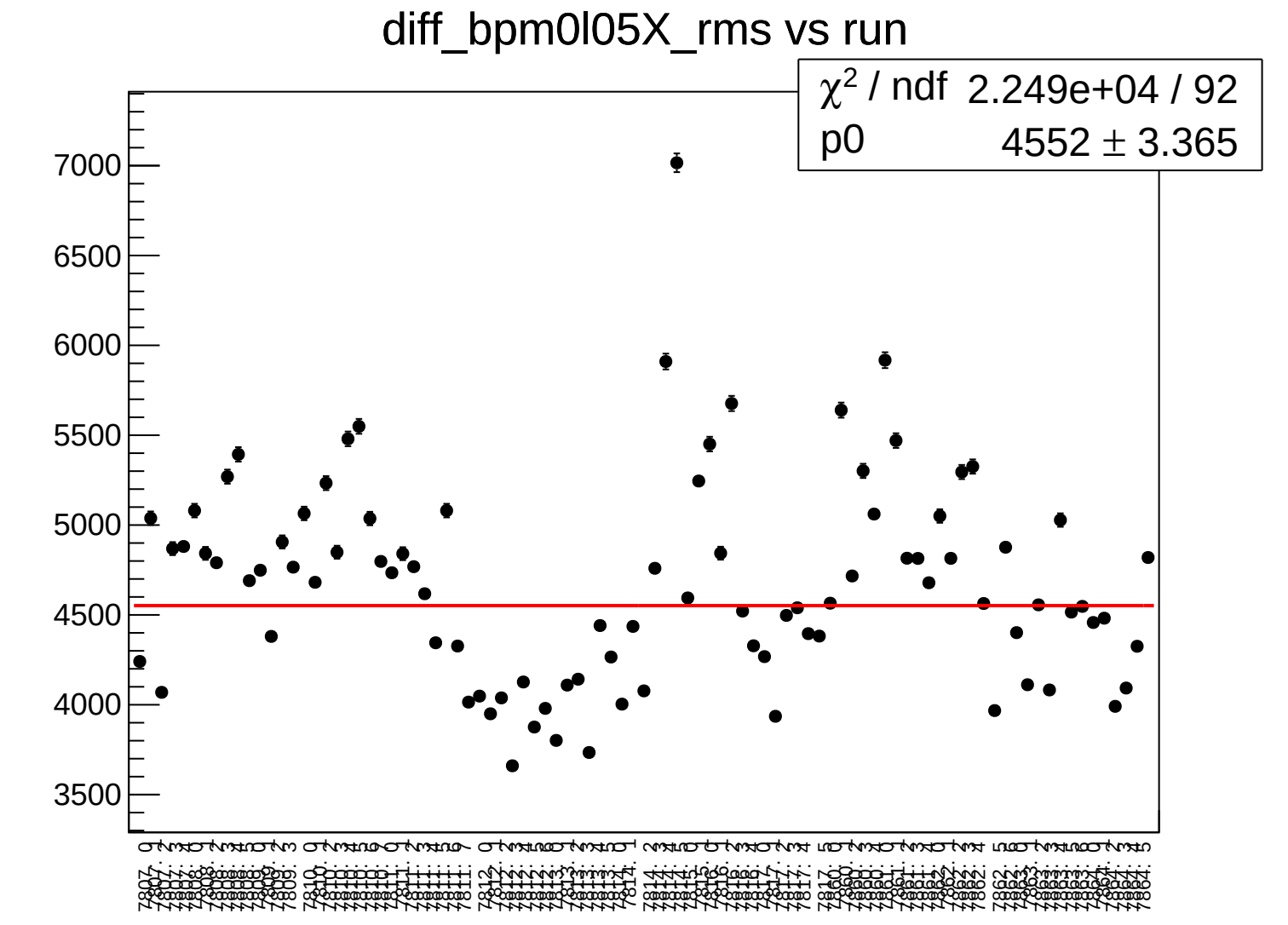

diff_bpm0l04Y_mean vs run
χ^2 / ndf 119.6 / 92
p0 8.748 ± 1.116
pull
Entries 93
Mean −498.7
Std Dev 0

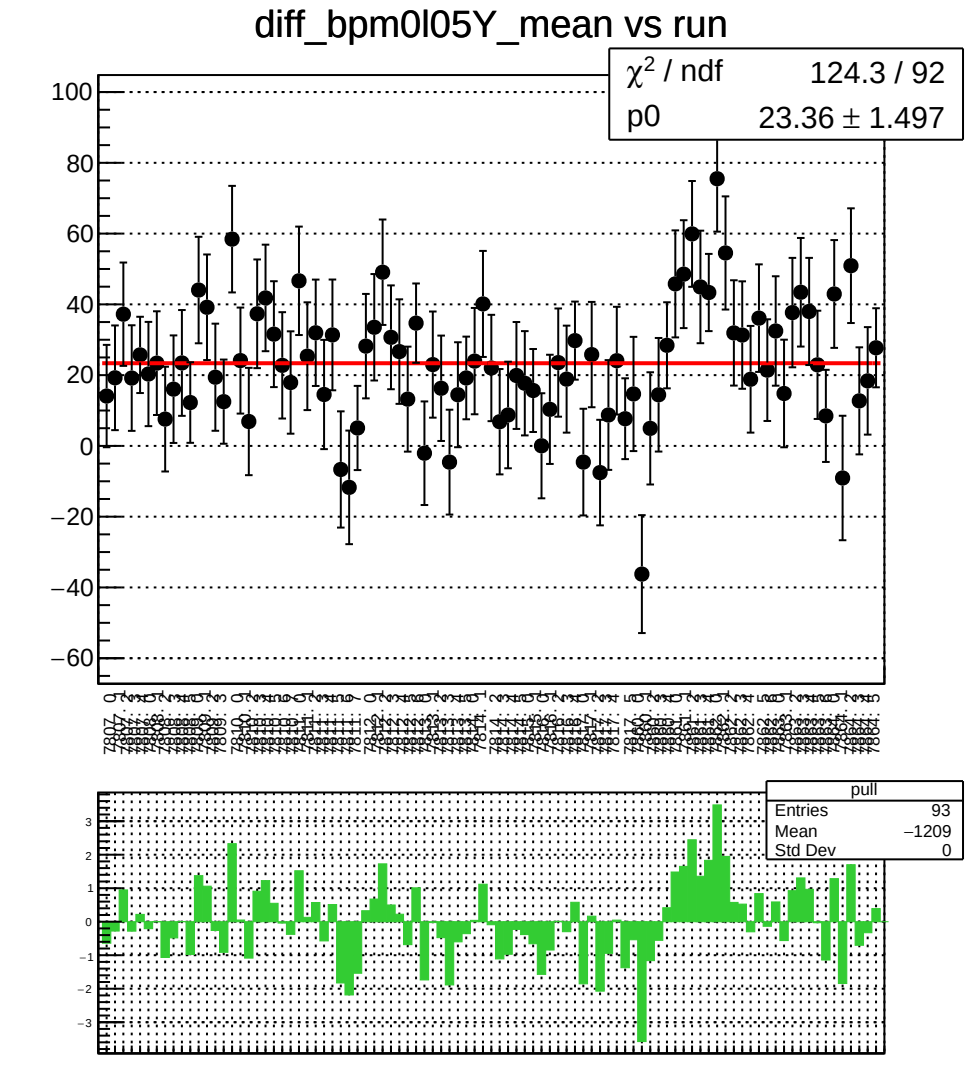

pull1D
Entries 93
Mean 0.004149
Std Dev 1.134

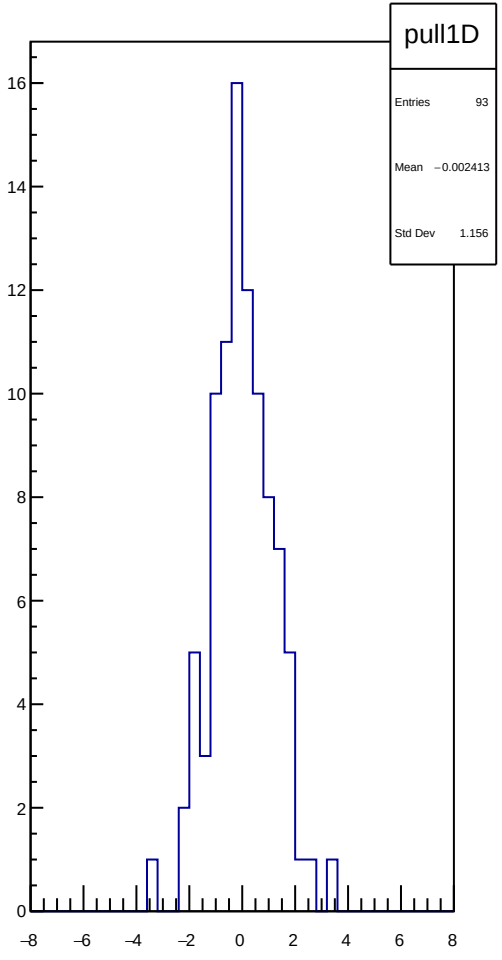

diff_bpm0l04Y_rms vs run
χ² / ndf 976.4 / 92
p0 1073 ± 0.7889
1200
1180
1160
1140
1120
1100
1080
1060
1040
1020

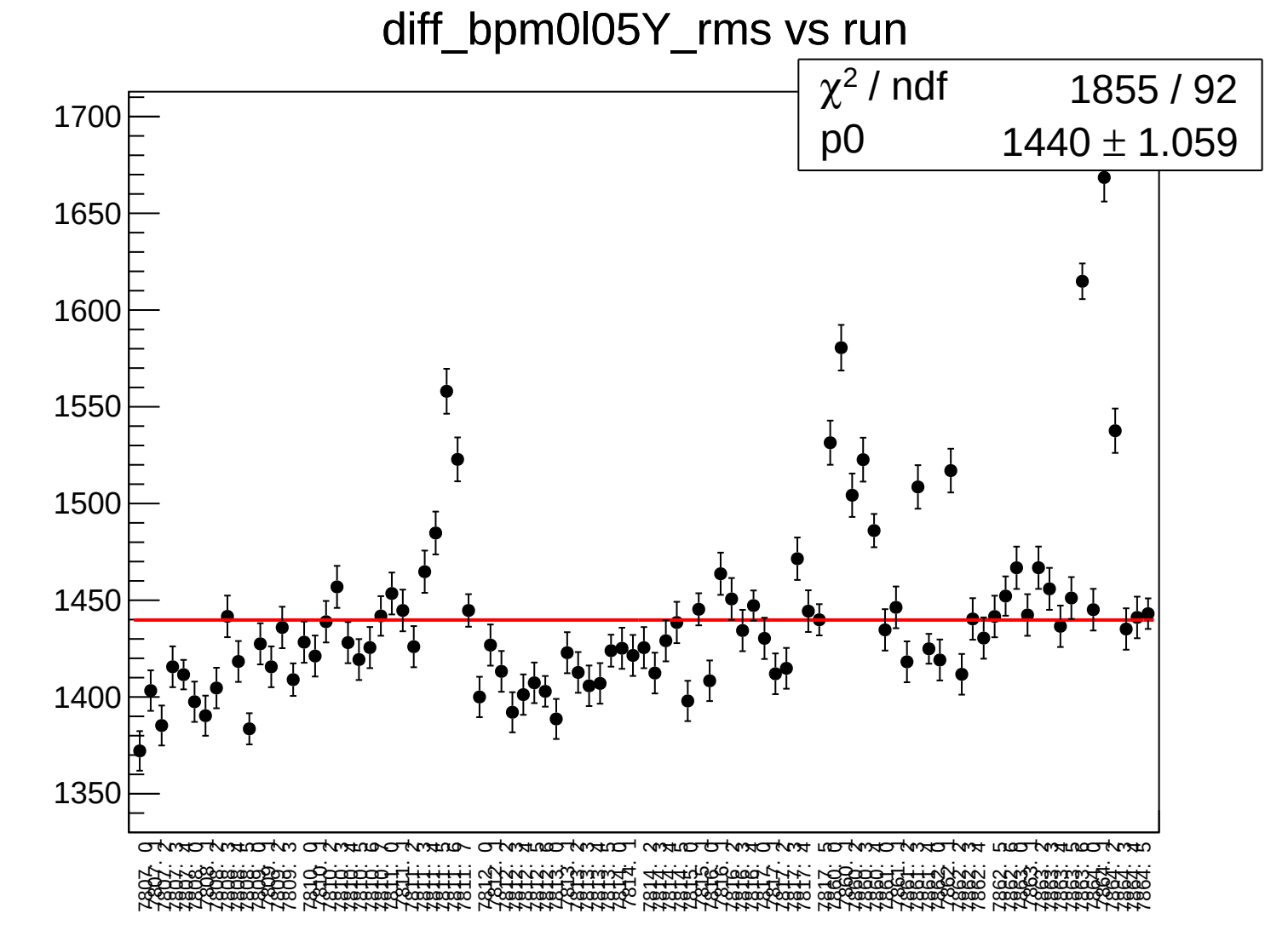

diff_bpm0l05X_mean vs run
χ² / ndf 95.08 / 92
p0 2.925 ± 4.759
pull
Entries 93
Mean −73.11
Std Dev 0

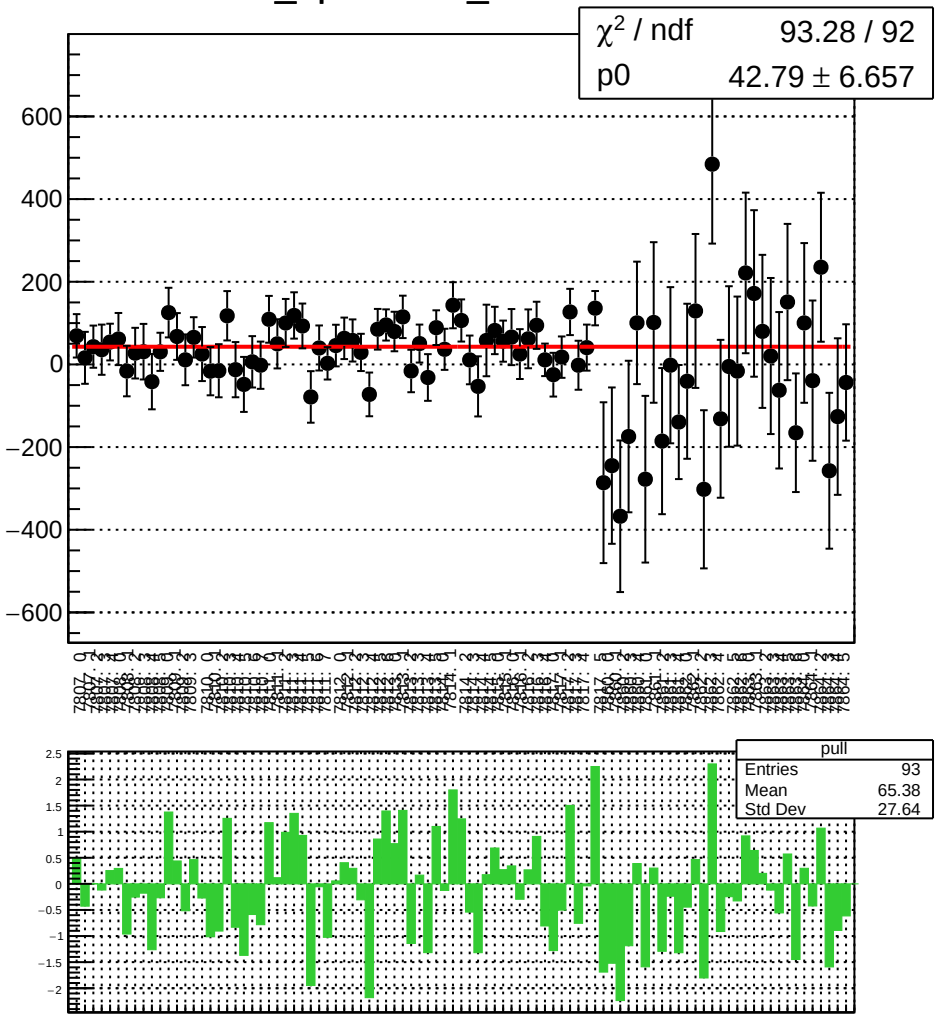

pull1D
Entries 93
Mean −0.01083
Std Dev 1.011

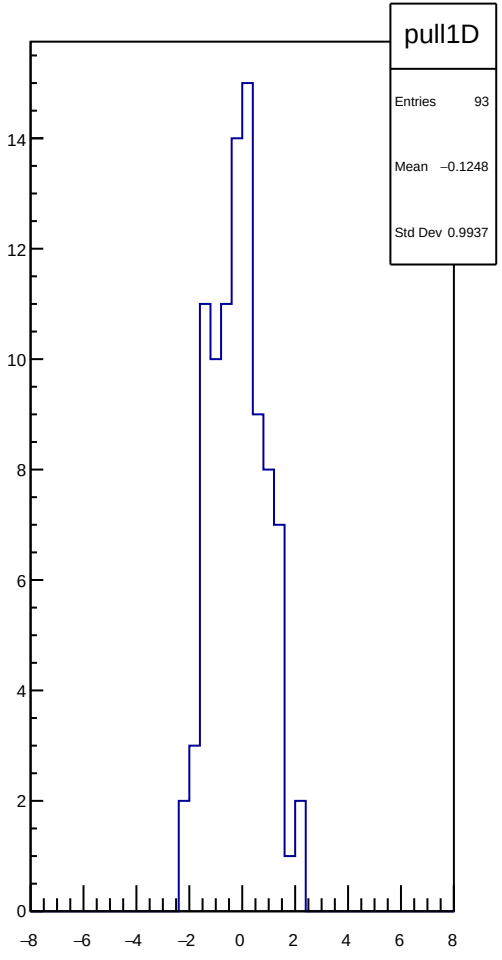

diff_bpm0l05X_rms vs run
χ² / ndf 2.249e+04 / 92
p0 4552 ± 3.365
7000
6500
6000
5500
5000
4500
4000
3500

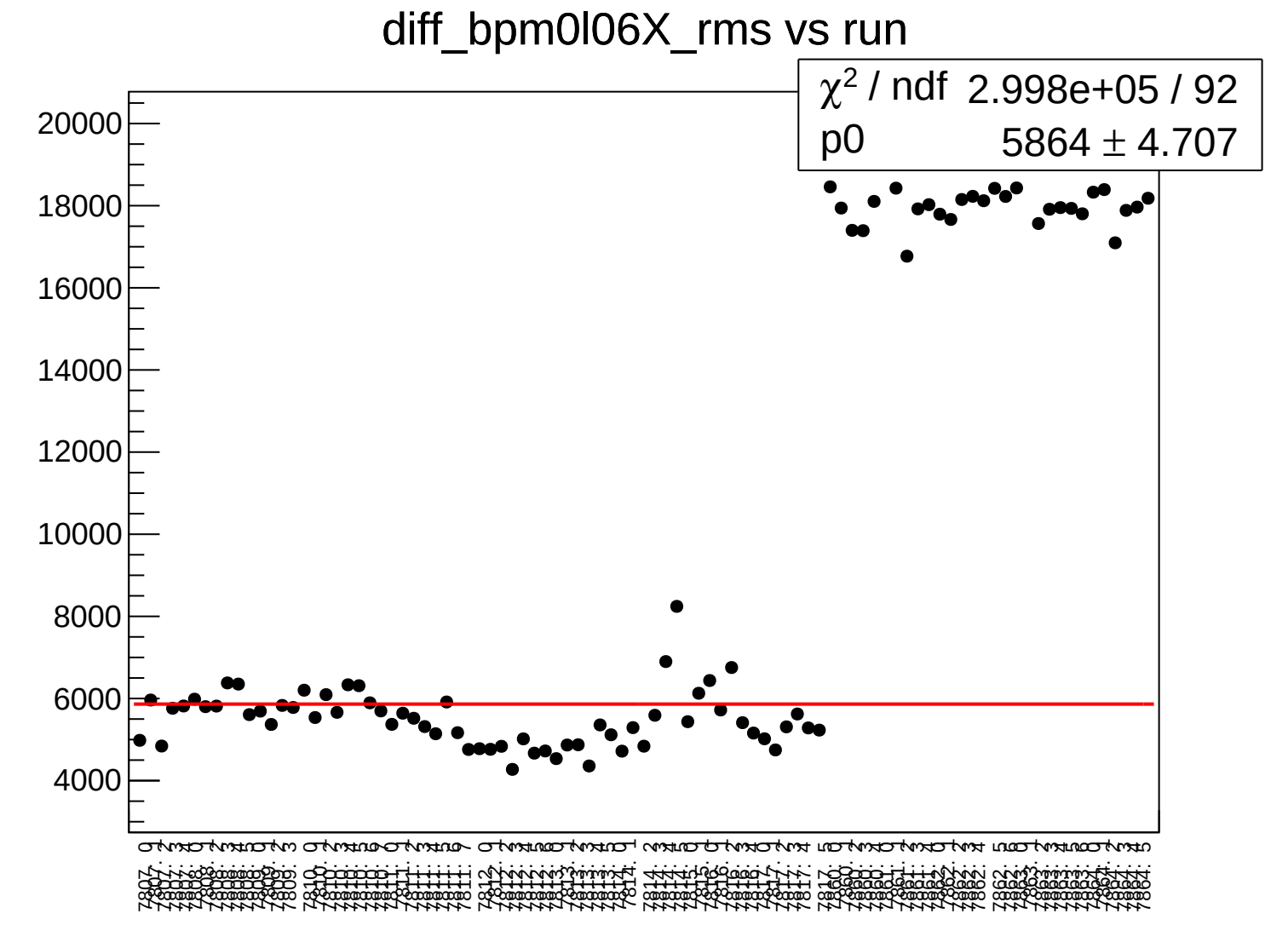

diff_bpm0l05Y_mean vs run
χ^2 / ndf 124.3 / 92
p0 23.36 ± 1.497
pull
Entries 93
Mean −1209
Std Dev 0

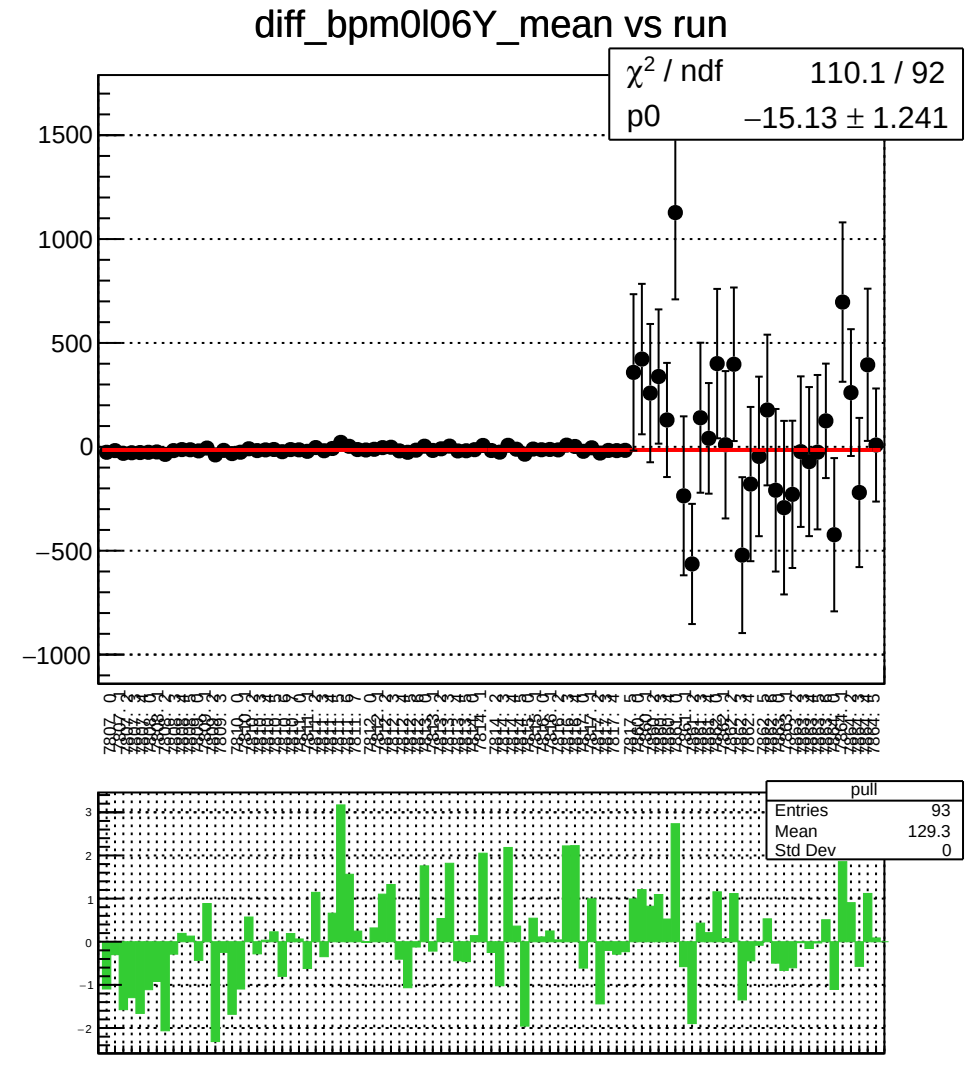

pull1D
Entries 93
Mean −0.002413
Std Dev 1.156

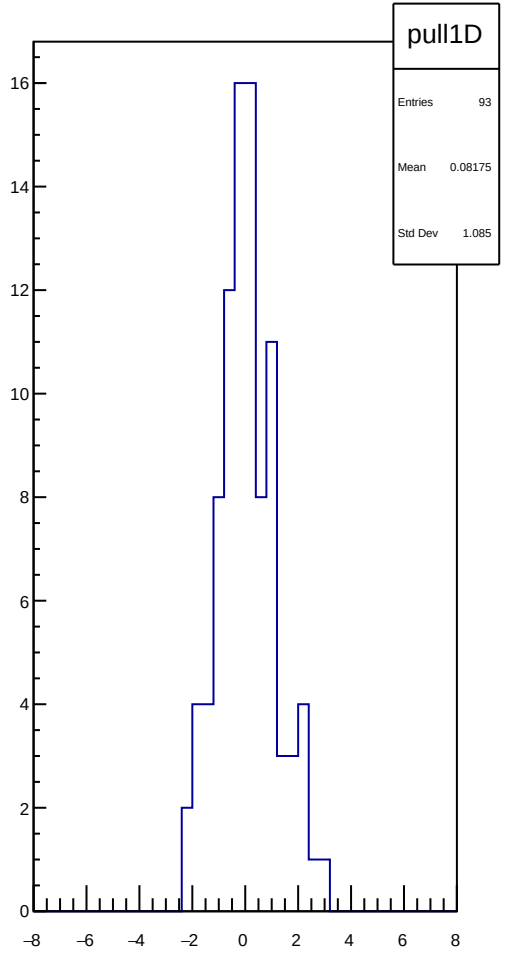

diff_bpm0l05Y_rms vs run
χ² / ndf 1855 / 92
p0 1440 ± 1.059
1700
1650
1600
1550
1500
1450
1400
1350

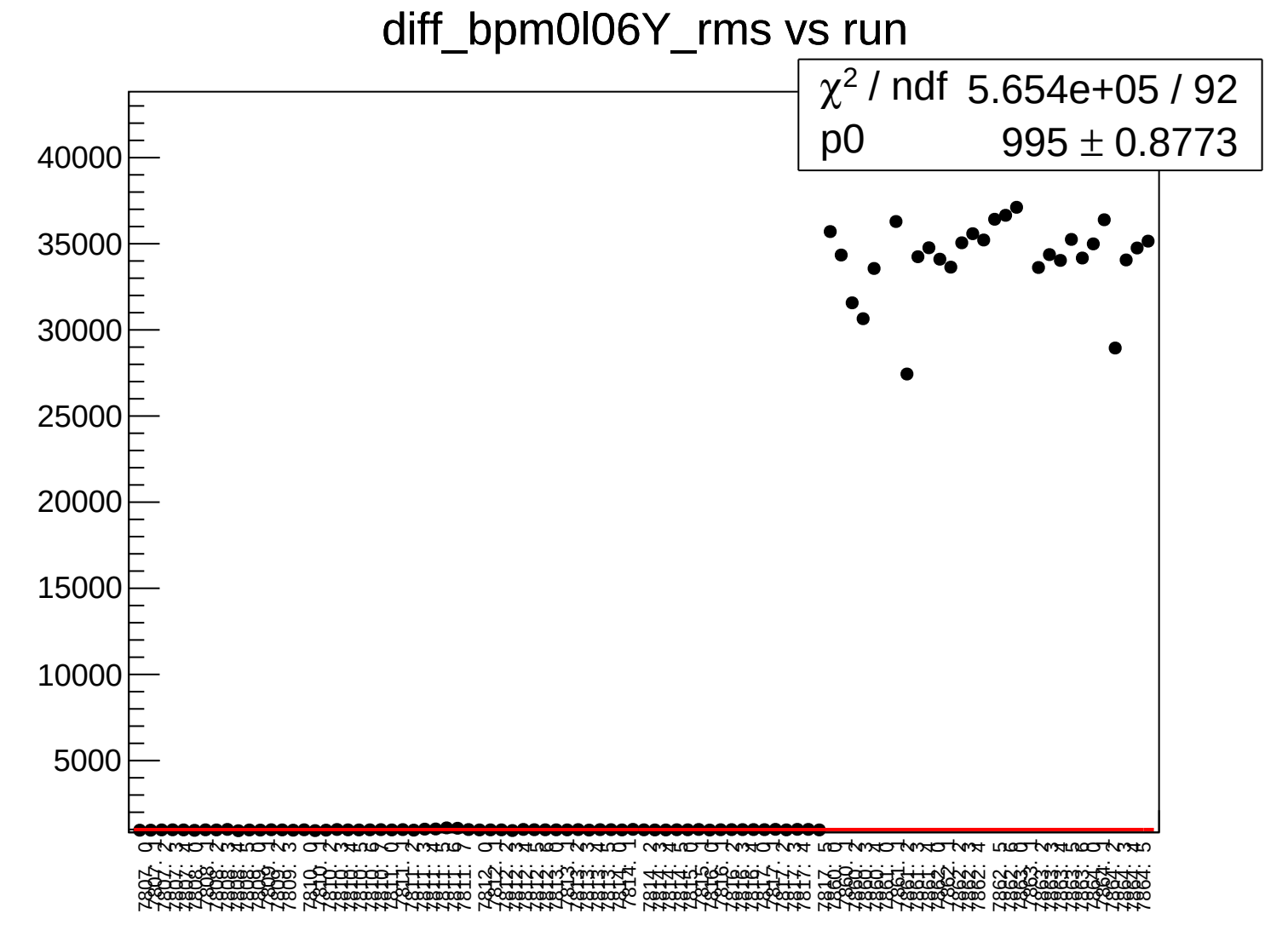

diff_bpm0l06X_mean vs run
χ² / ndf 93.28 / 92
p0 42.79 ± 6.657
pull
Entries 93
Mean 65.38
Std Dev 27.64

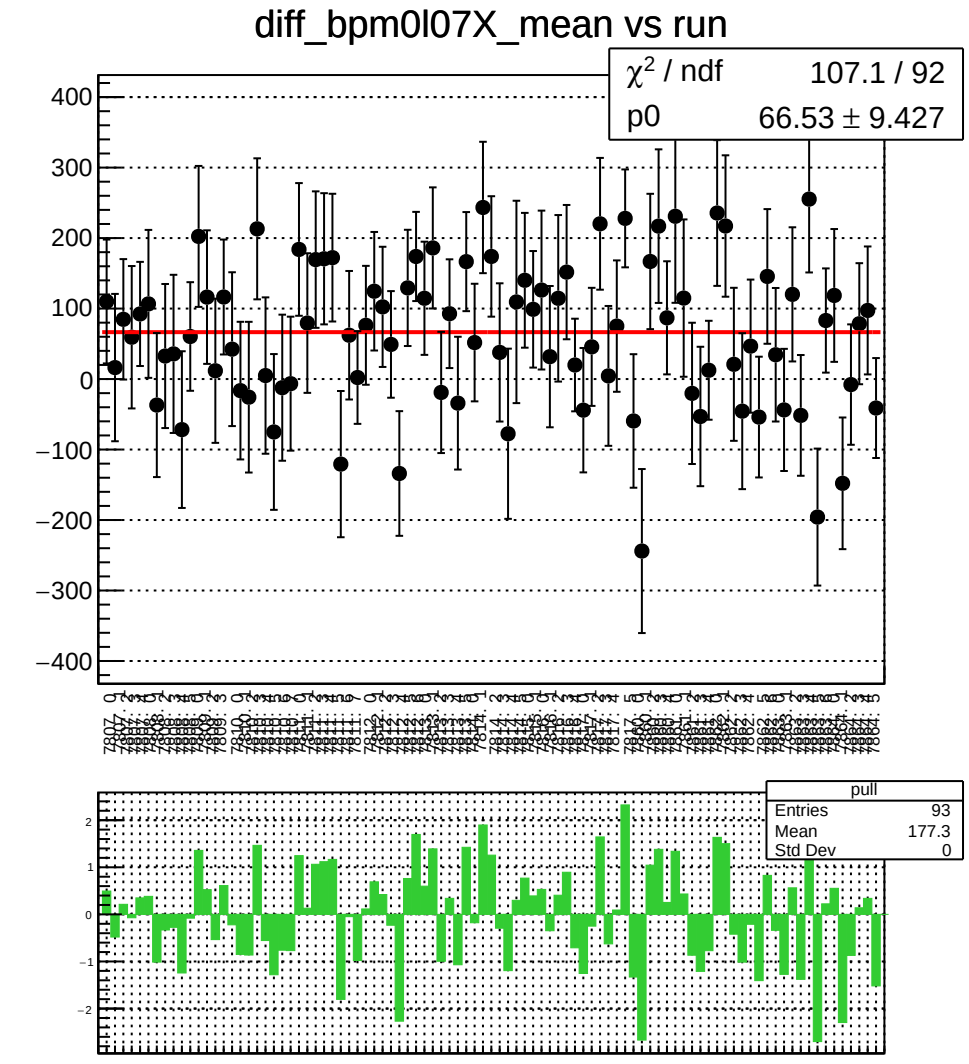

pull1D
Entries 93
Mean −0.1248
Std Dev 0.9937

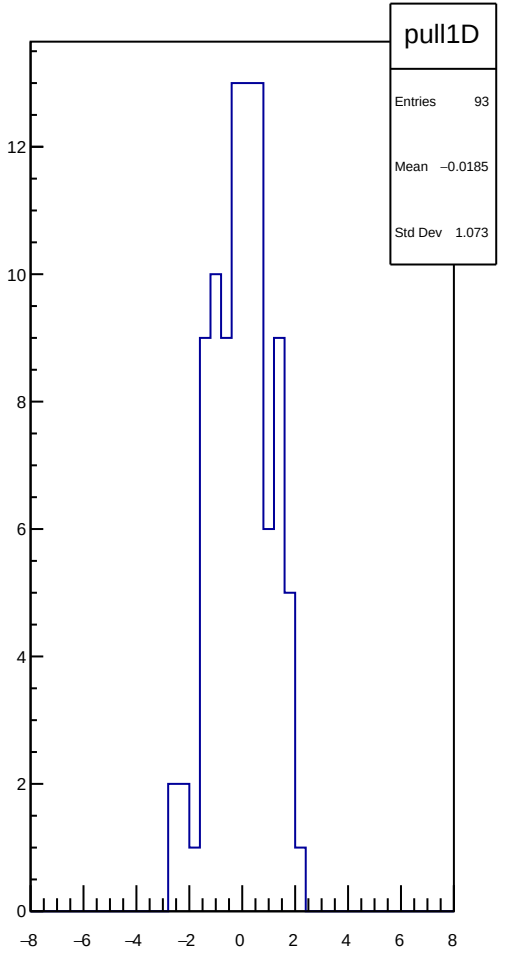

diff_bpm0l06X_rms vs run
χ² / ndf 2.998e+05 / 92
p0 5864 ± 4.707
20000
18000
16000
14000
12000
10000
8000
6000
4000

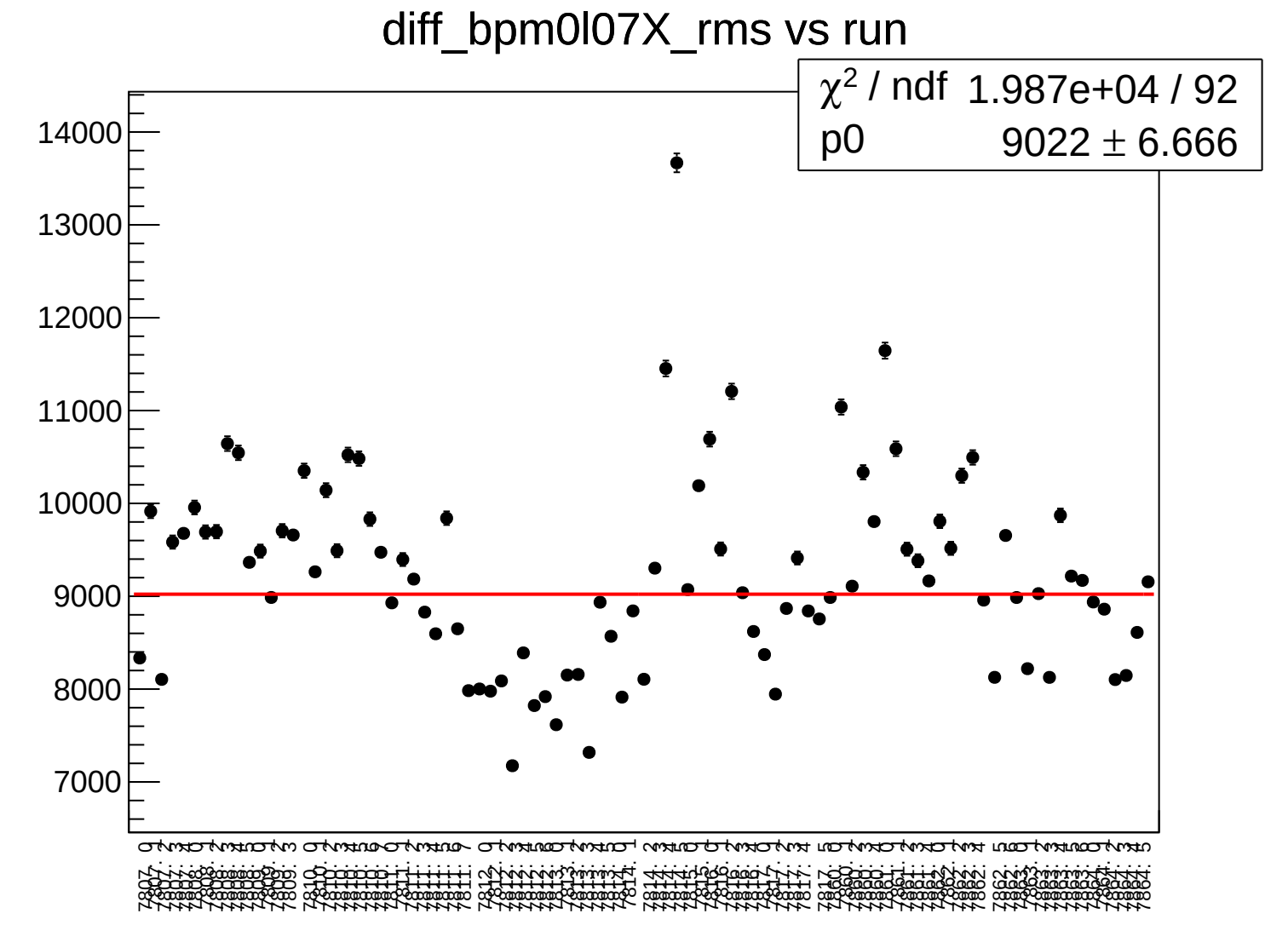

diff_bpm0l06Y_mean vs run
χ² / ndf 110.1 / 92
p0 −15.13 ± 1.241
1500
1000
500
0
−500
−1000
pull
Entries 93
Mean 129.3
Std Dev 0
3
2
1
0
−1
−2

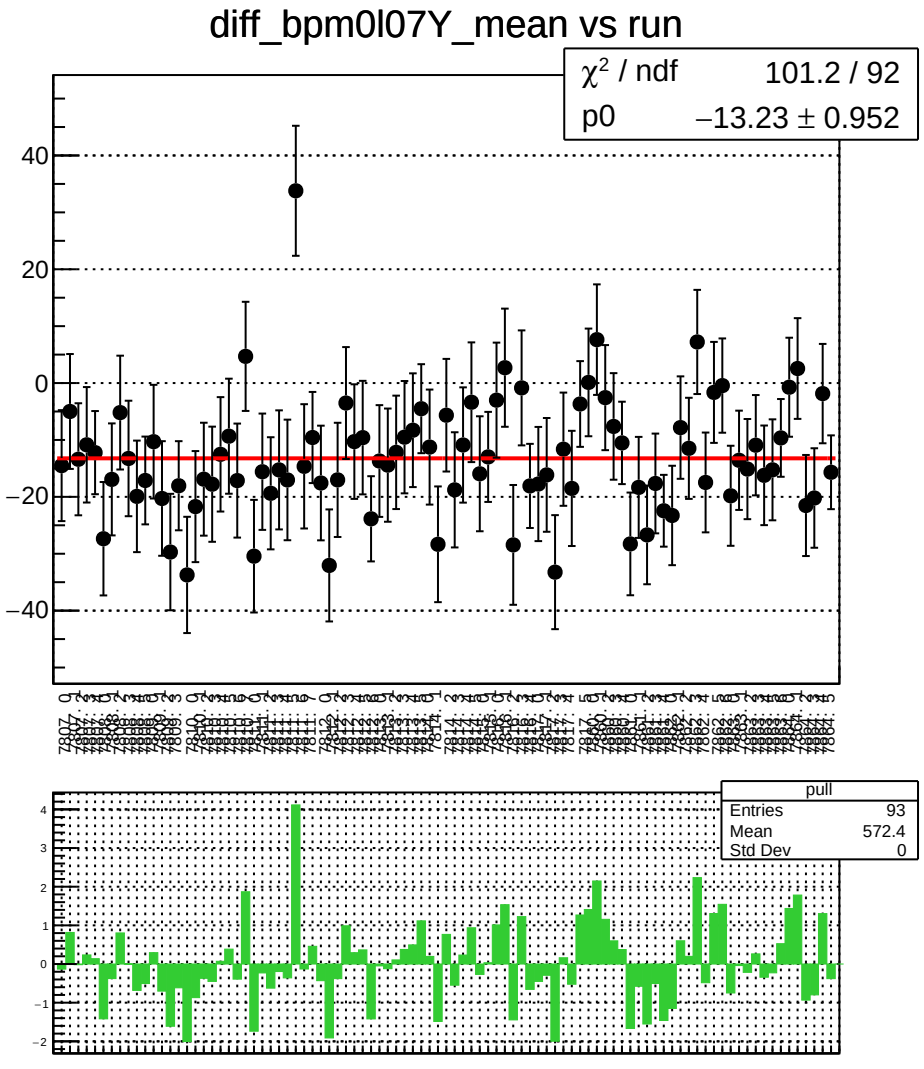

pull1D
Entries 93
Mean 0.08175
Std Dev 1.085
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

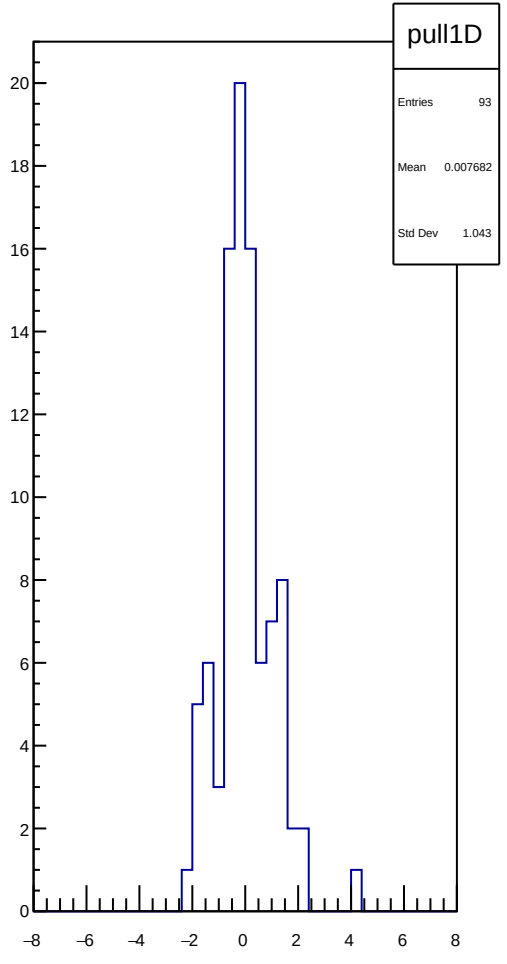

diff_bpm0l06Y_rms vs run
χ^2 / ndf 5.654e+05 / 92
p0 995 ± 0.8773
40000
35000
30000
25000
20000
15000
10000
5000

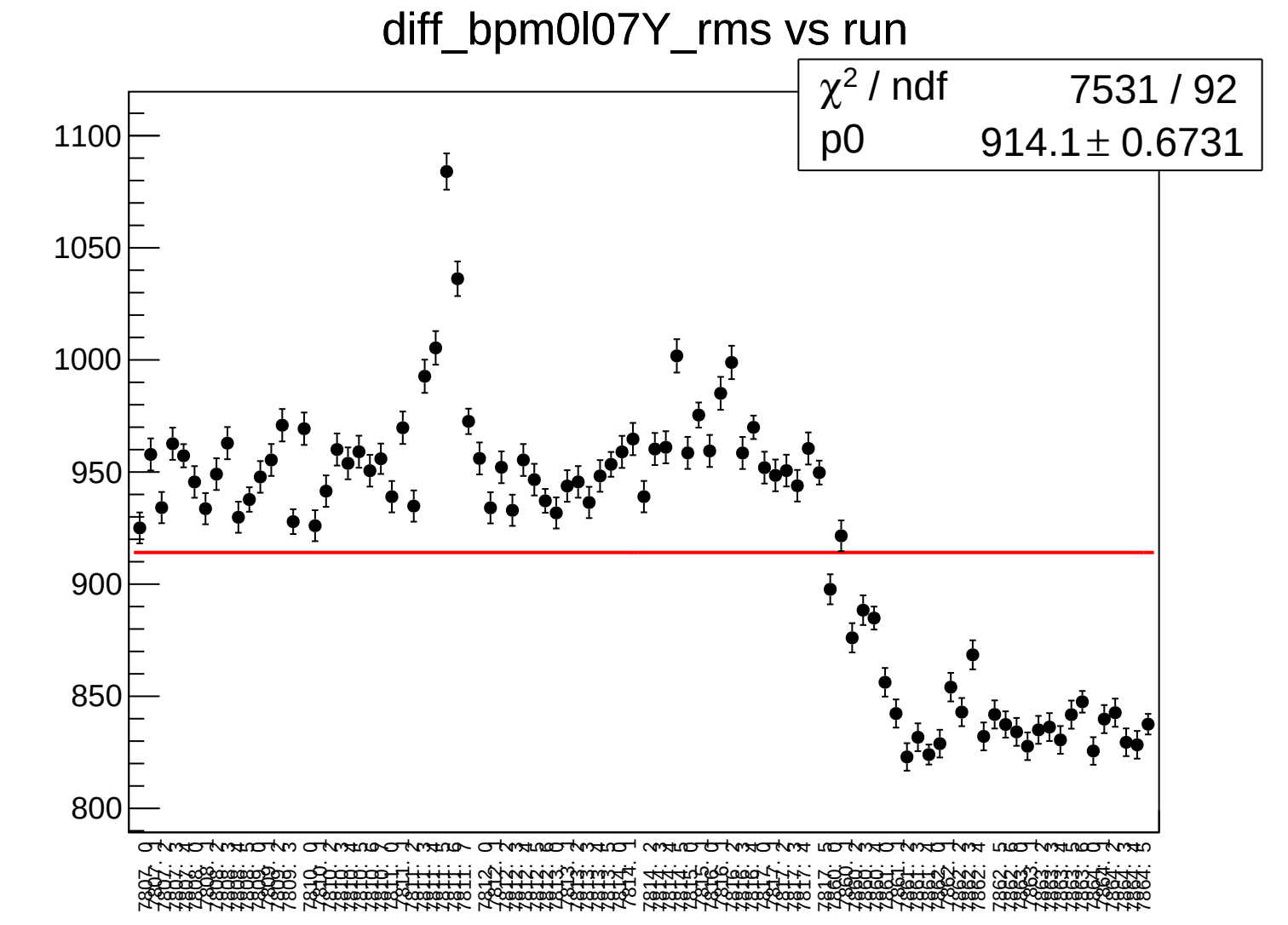

diff_bpm0l07X_mean vs run
χ² / ndf 107.1 / 92
p0 66.53 ± 9.427
pull
Entries 93
Mean 177.3
Std Dev 0

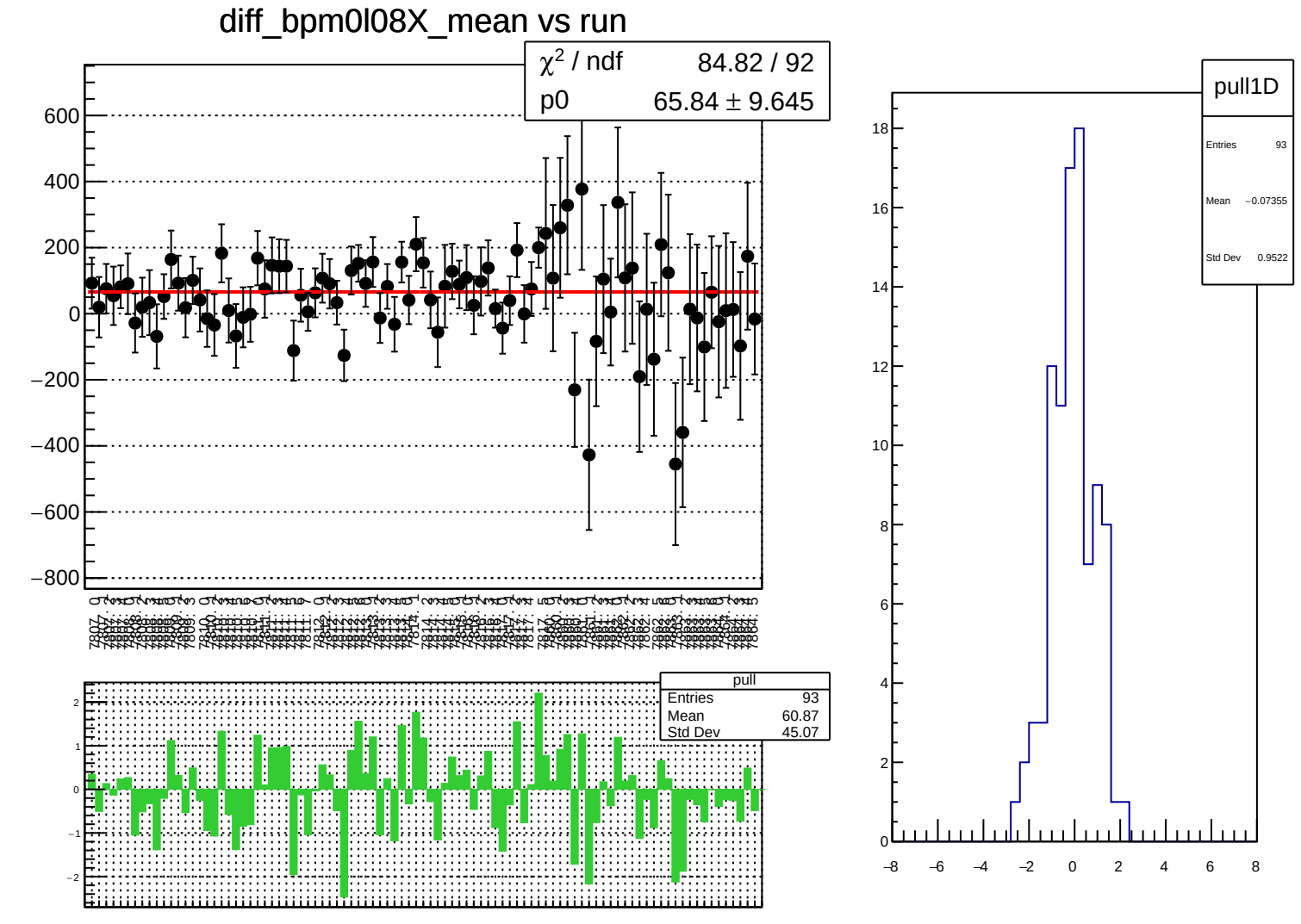

pull1D
Entries 93
Mean −0.0185
Std Dev 1.073

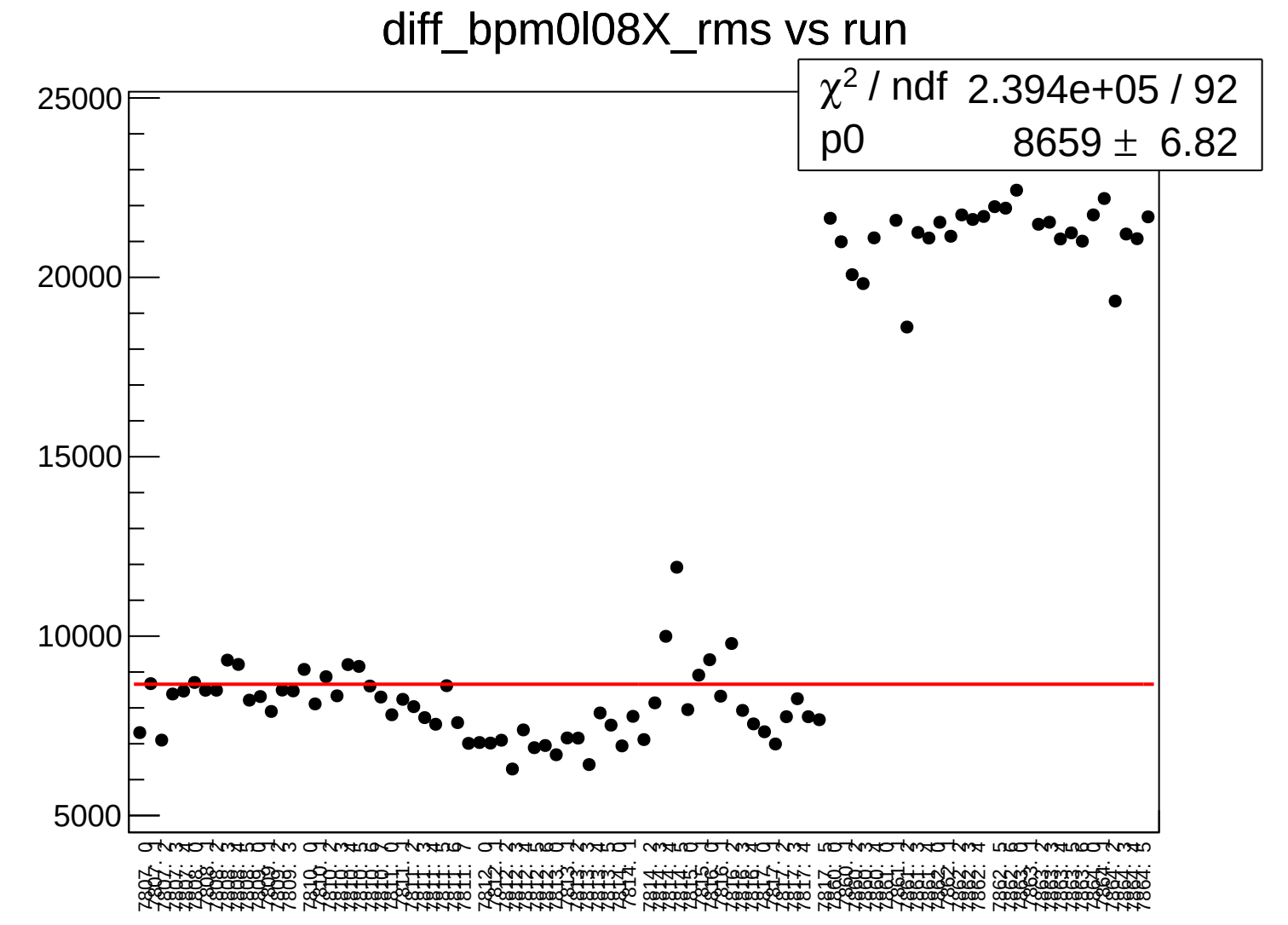

diff_bpm0l07X_rms vs run
χ² / ndf 1.987e+04 / 92
p0 9022 ± 6.666
14000
13000
12000
11000
10000
9000
8000
7000

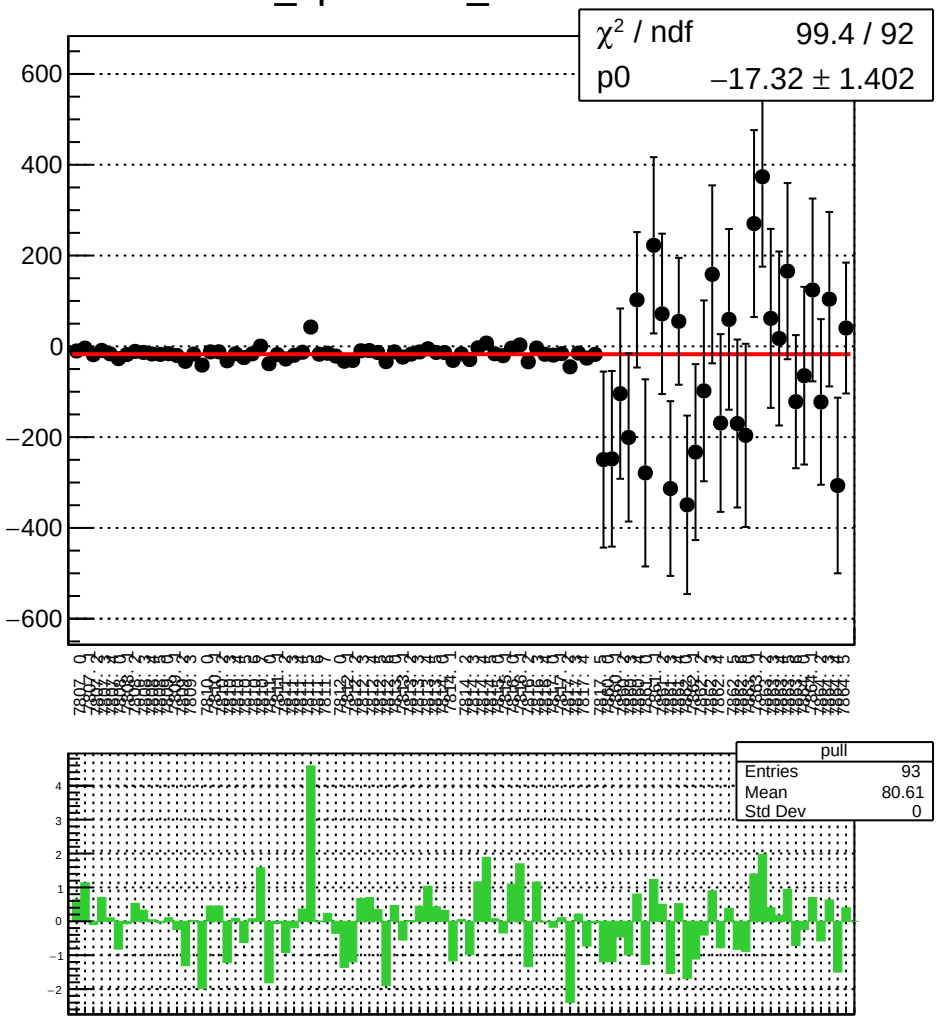

diff_bpm0l07Y_mean vs run
χ² / ndf 101.2 / 92
p0 −13.23 ± 0.952
40
20
0
−20
−40
pull
Entries 93
Mean 572.4
Std Dev 0
4
3
2
1
0
−1
−2

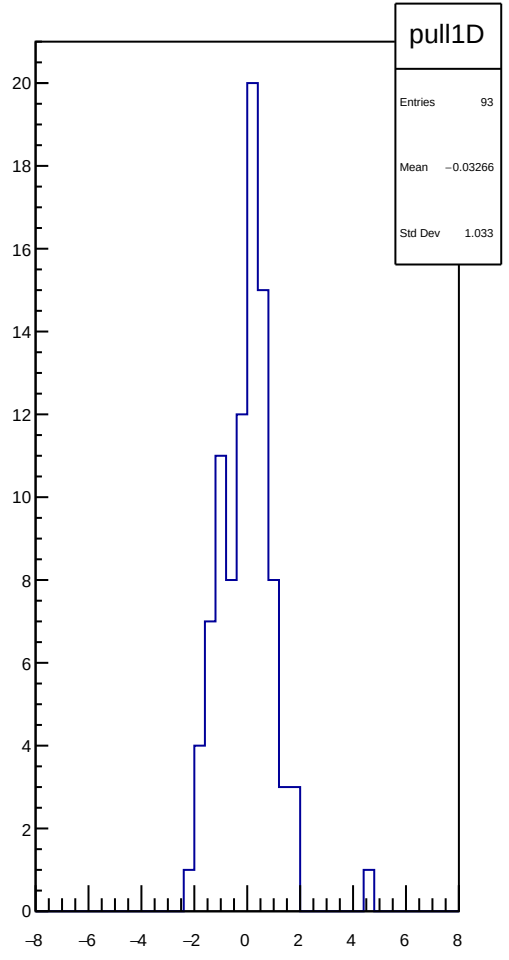

pull1D
Entries 93
Mean 0.007682
Std Dev 1.043
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

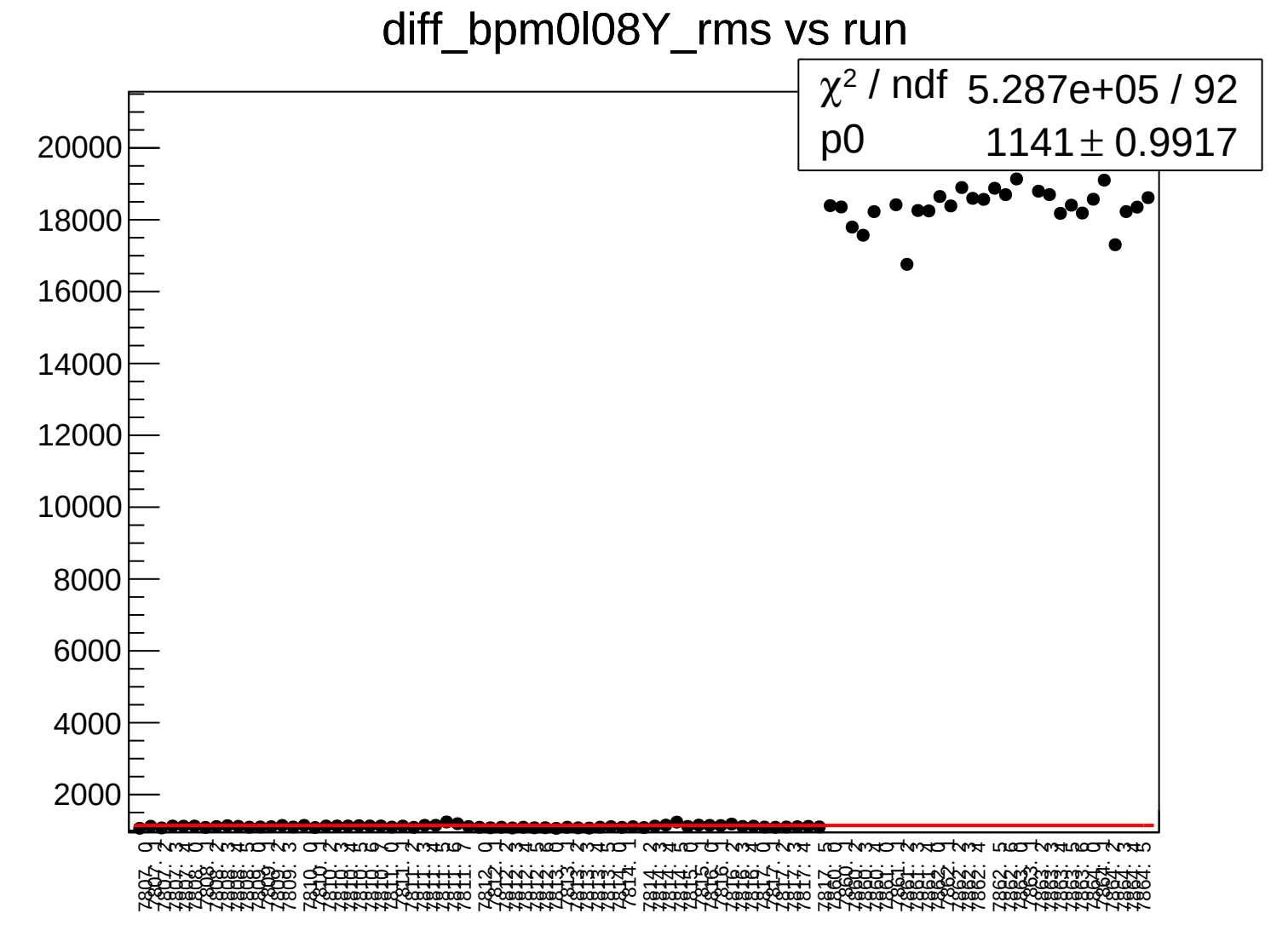

diff_bpm0l07Y_rms vs run
χ² / ndf 7531 / 92
p0 914.1 ± 0.6731
1100
1050
1000
950
900
850
800

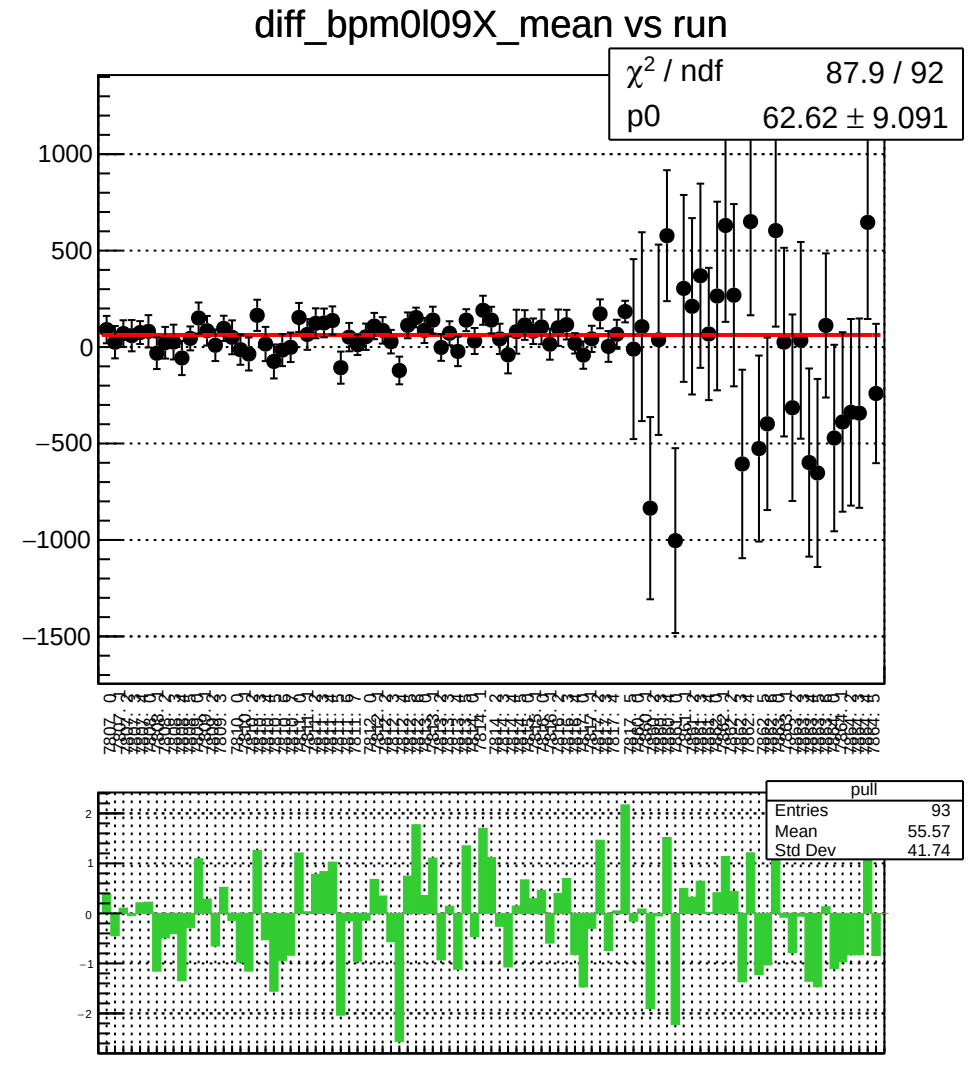

diff_bpm0l08X_mean vs run
χ² / ndf 84.82 / 92
p0 65.84 ± 9.645
pull
Entries 93
Mean 60.87
Std Dev 45.07
pull1D
Entries 93
Mean −0.07355
Std Dev 0.9522

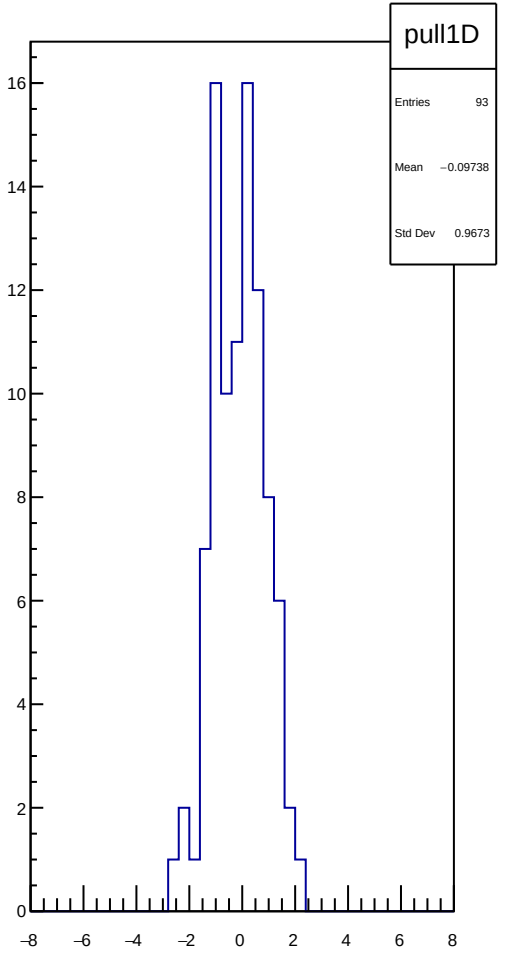

diff_bpm0l08X_rms vs run
χ² / ndf 2.394e+05 / 92
p0 8659 ± 6.82
25000
20000
15000
10000
5000

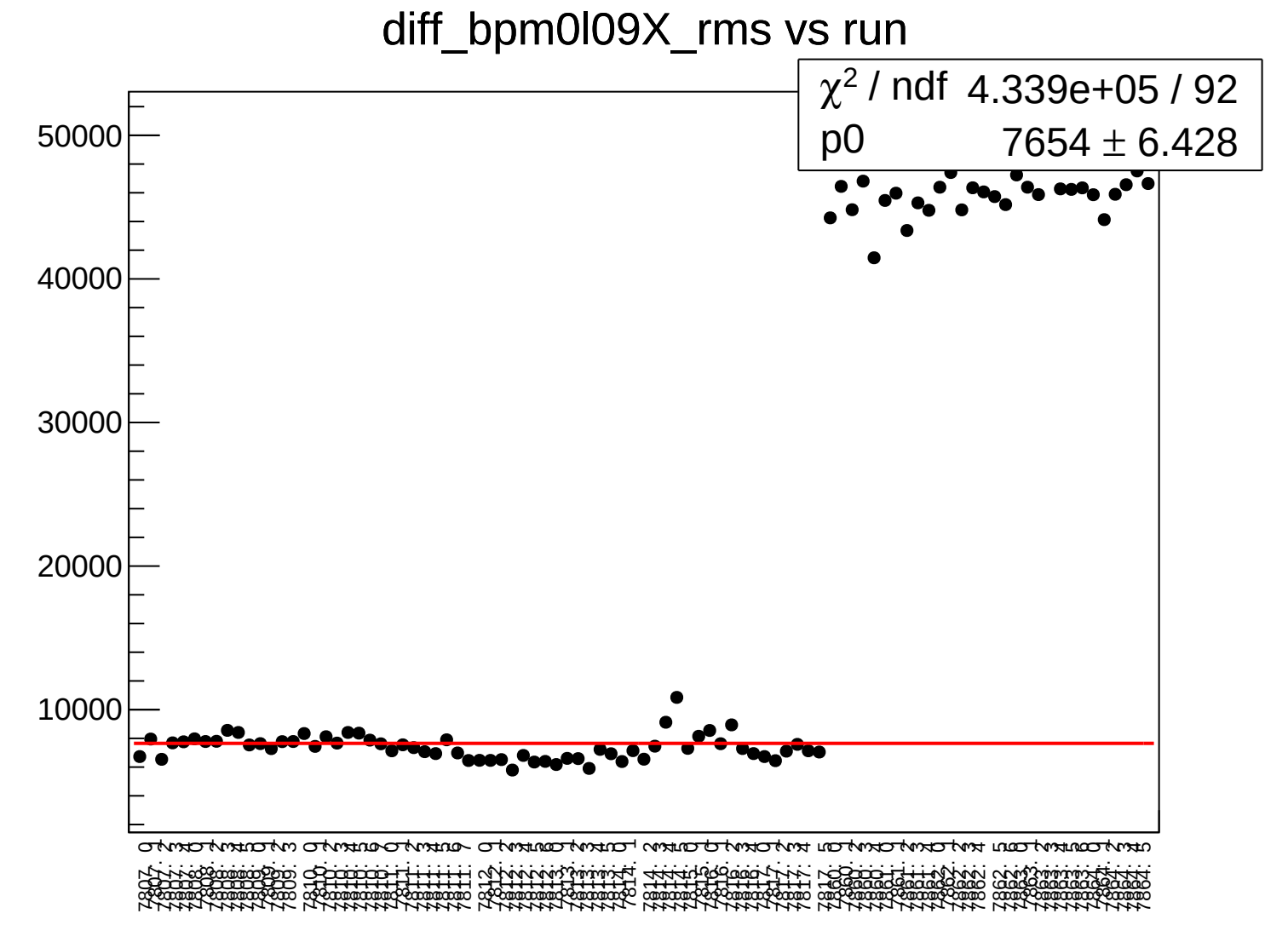

diff_bpm0l08Y_mean vs run
χ² / ndf 99.4 / 92
p0 −17.32 ± 1.402
pull
Entries 93
Mean 80.61
Std Dev 0

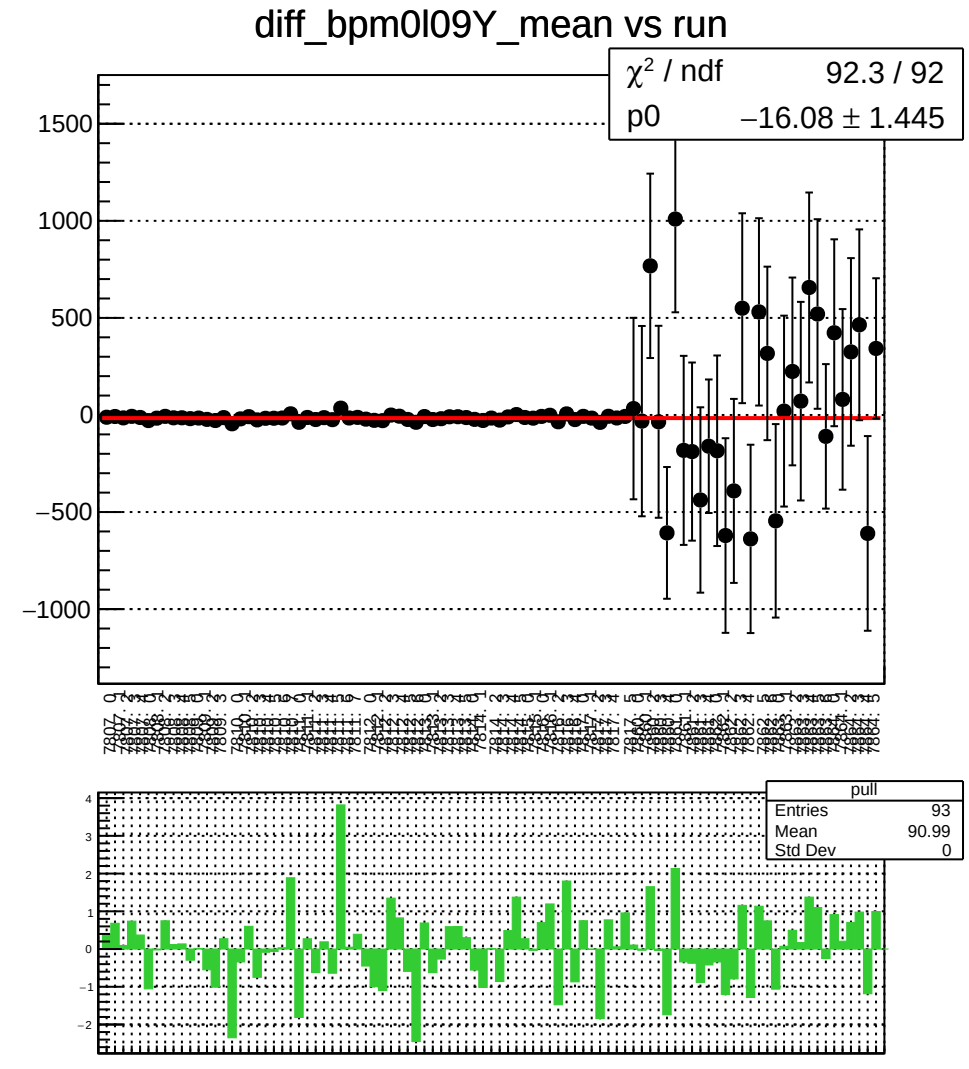

pull1D
Entries 93
Mean −0.03266
Std Dev 1.033

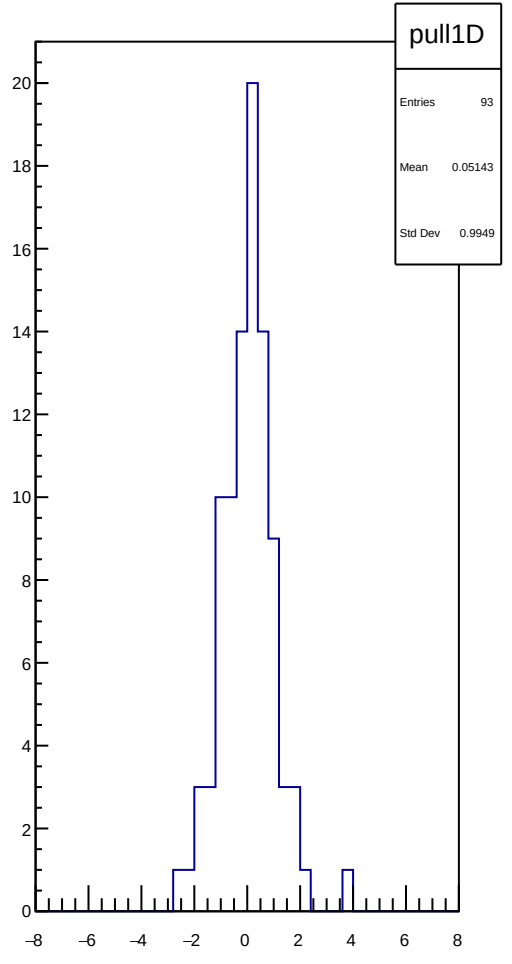

diff_bpm0l08Y_rms vs run
χ² / ndf 5.287e+05 / 92
p0 1141 ± 0.9917
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000

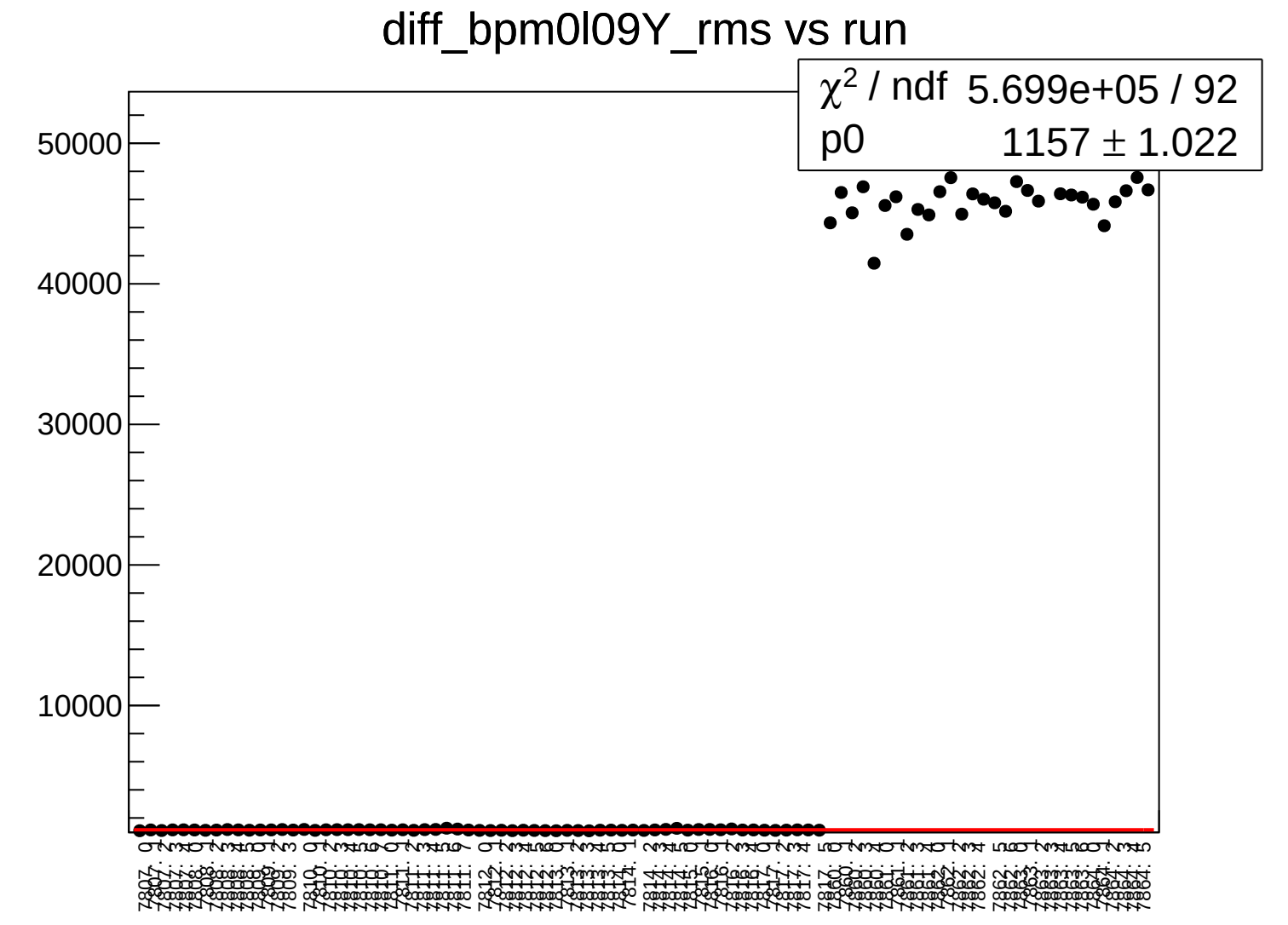

diff_bpm0l09X_mean vs run
χ² / ndf 87.9 / 92
p0 62.62 ± 9.091
1000
500
0
−500
−1000
−1500
pull
Entries 93
Mean 55.57
Std Dev 41.74
2
1
0
−1
−2

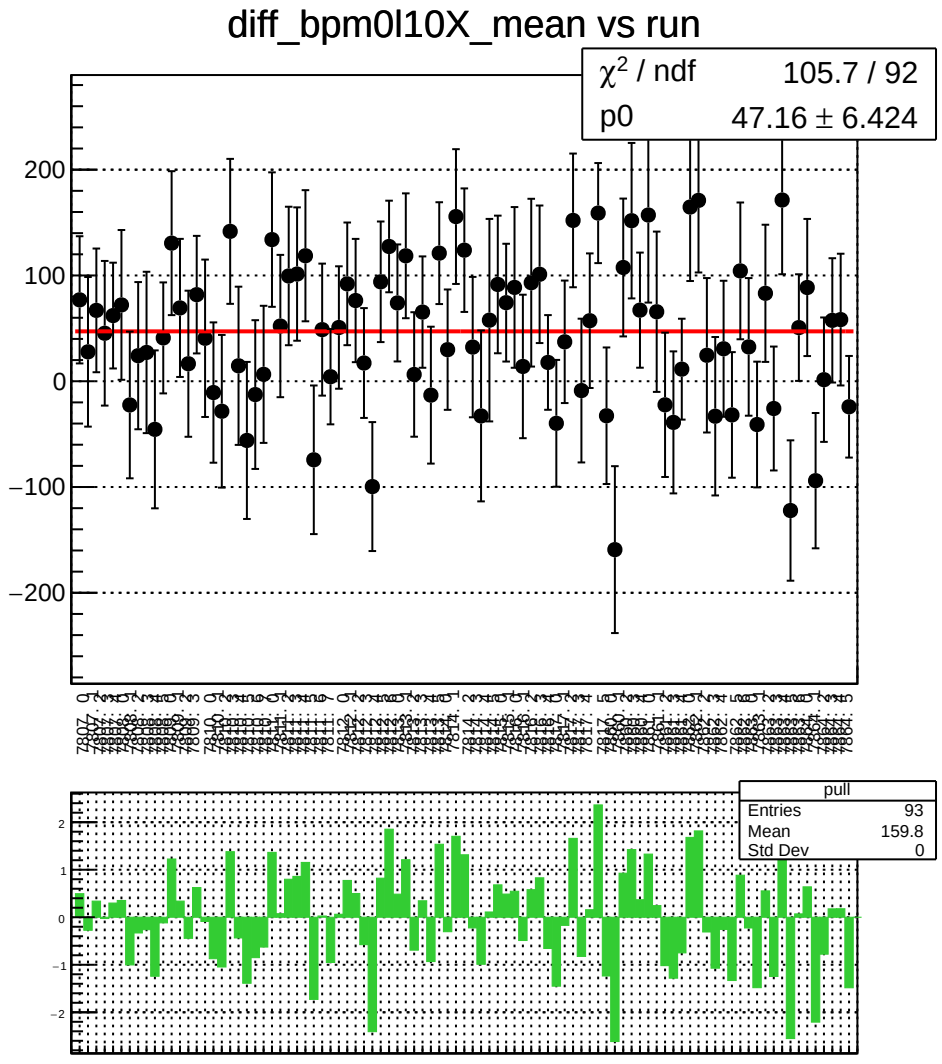

pull1D
Entries 93
Mean −0.09738
Std Dev 0.9673
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

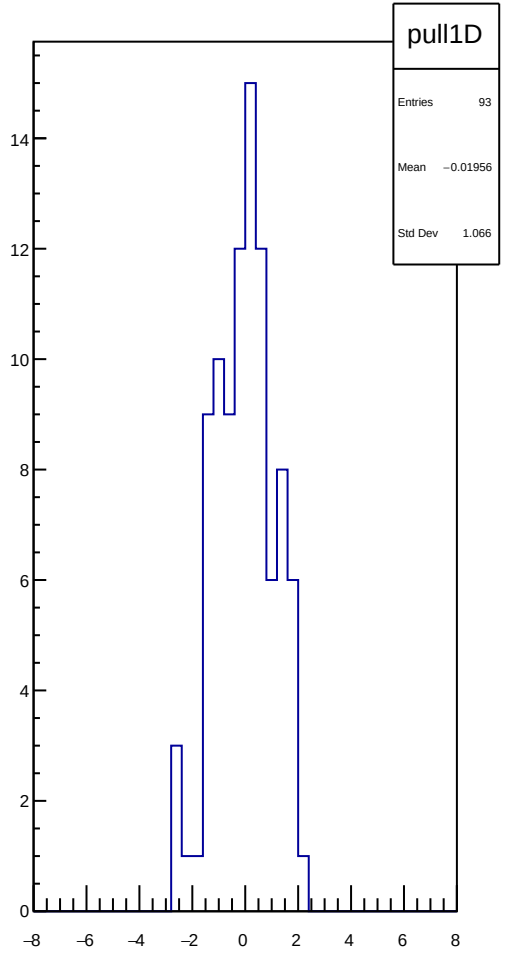

diff_bpm0l09X_rms vs run
χ² / ndf 4.339e+05 / 92
p0 7654 ± 6.428
50000
40000
30000
20000
10000

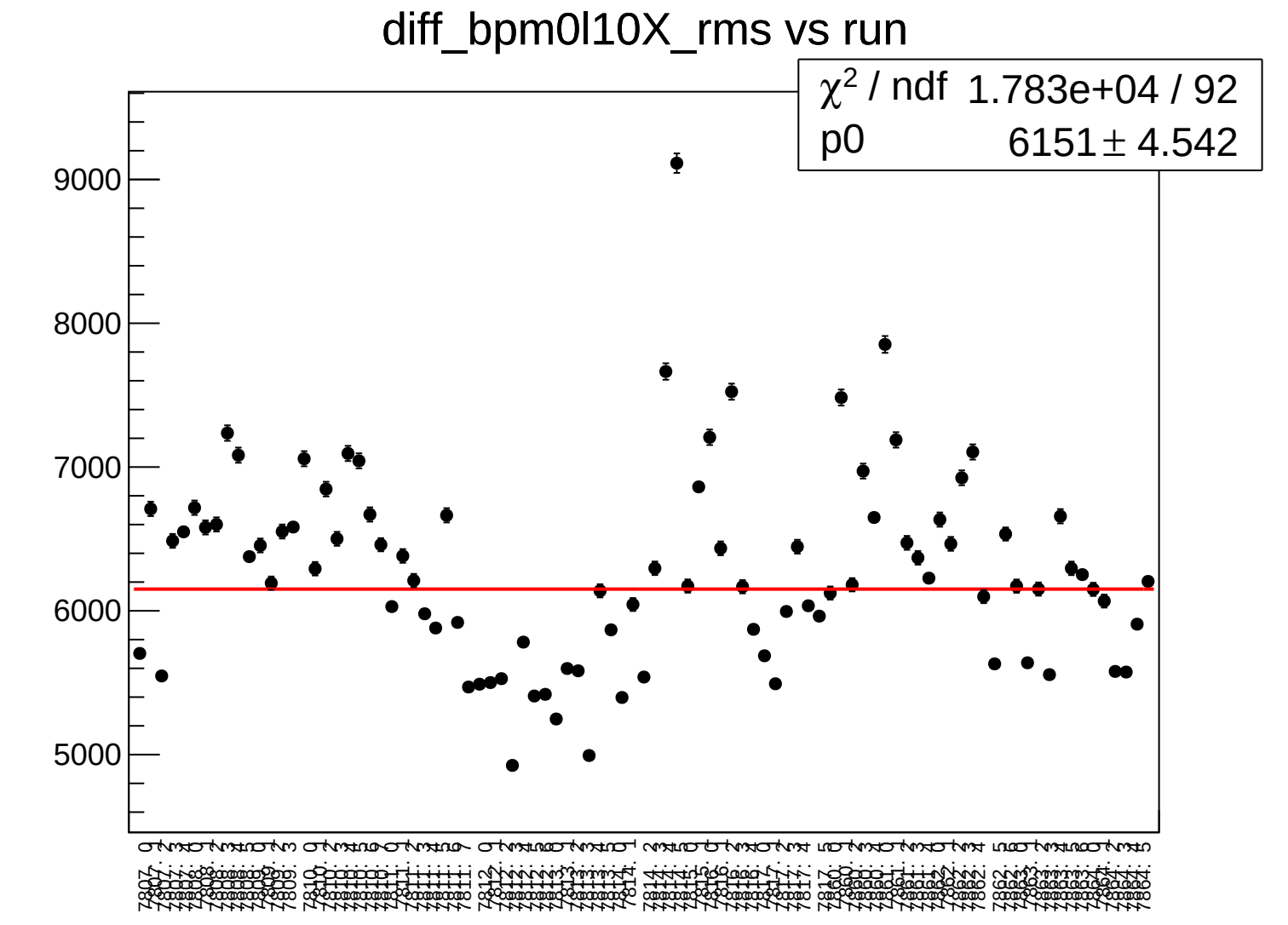

diff_bpm0l09Y_mean vs run
χ² / ndf 92.3 / 92
p0 −16.08 ± 1.445
1500
1000
500
0
−500
−1000
pull
Entries 93
Mean 90.99
Std Dev 0
4
3
2
1
0
−1
−2

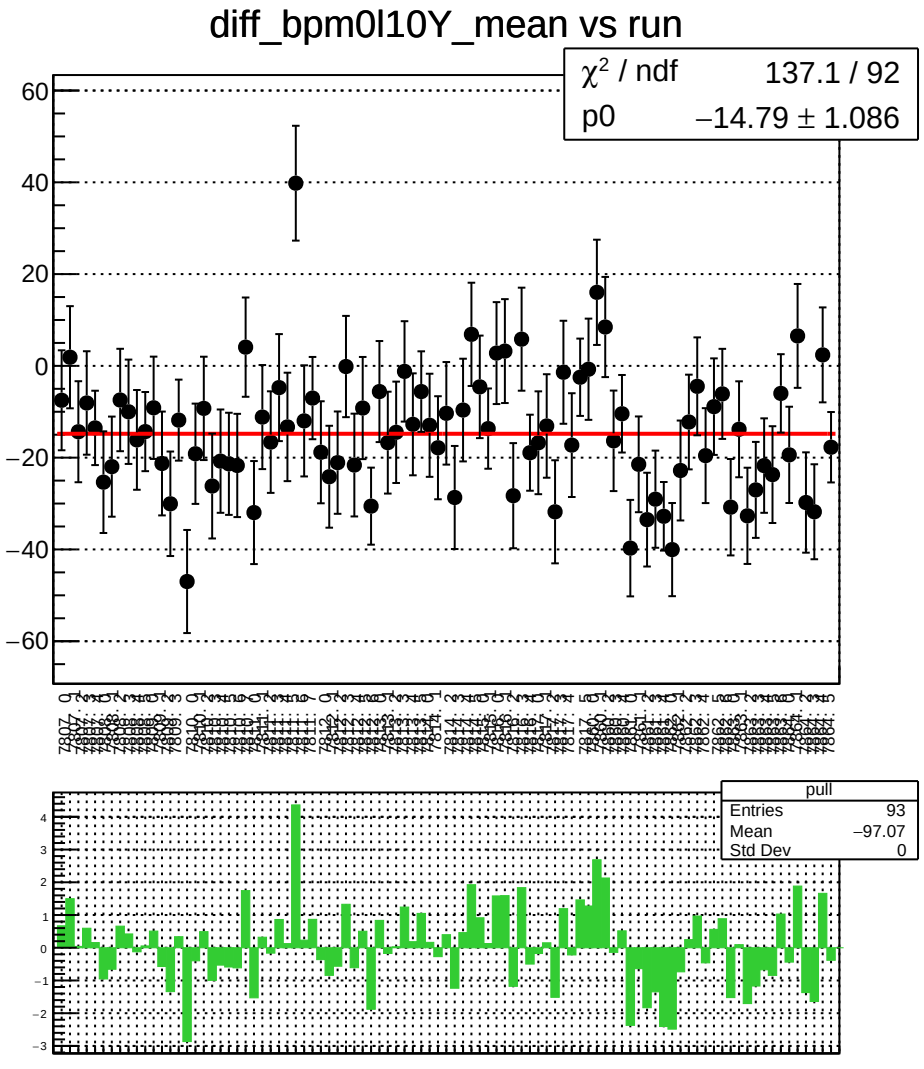

pull1D
Entries 93
Mean 0.05143
Std Dev 0.9949
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

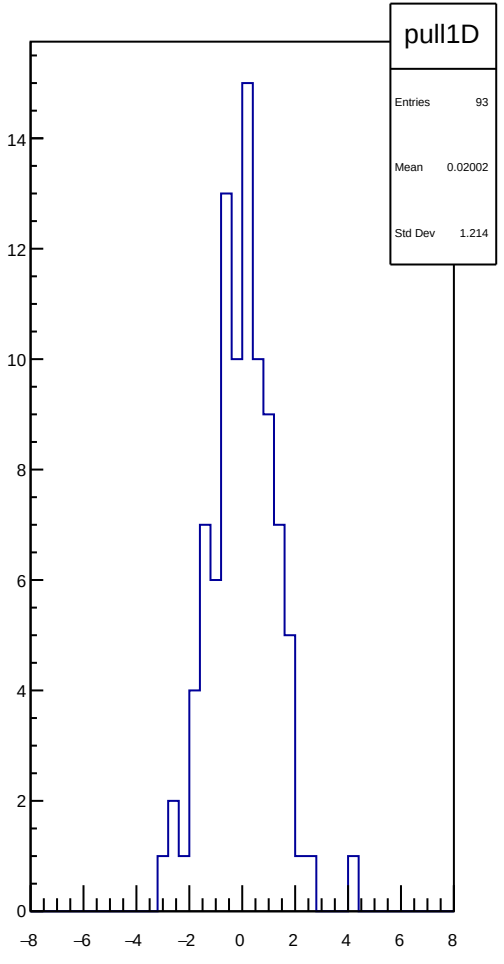

diff_bpm0l09Y_rms vs run
χ² / ndf 5.699e+05 / 92
p0 1157 ± 1.022
50000
40000
30000
20000
10000

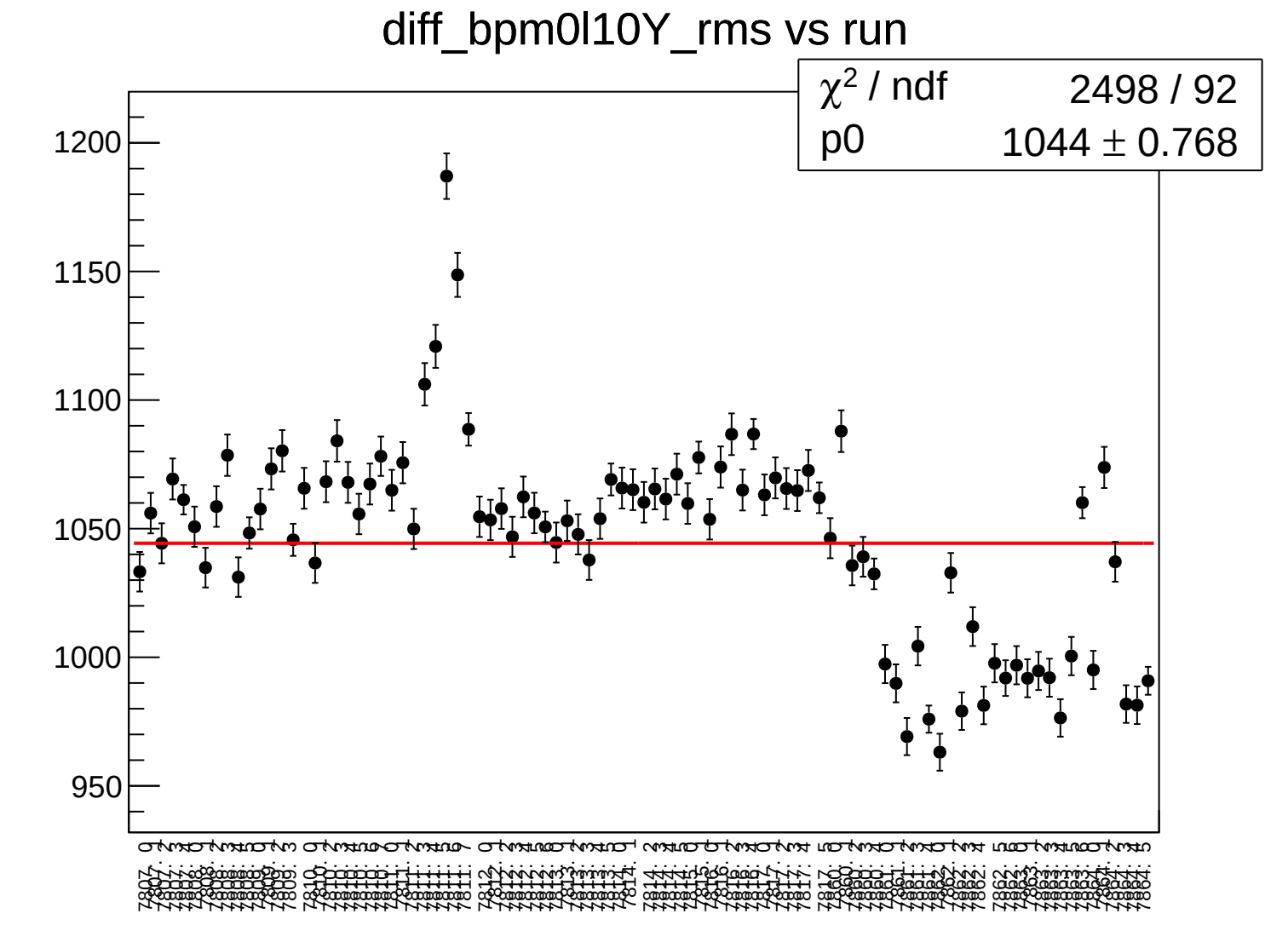

diff_bpm0l10X_mean vs run
χ^2 / ndf 105.7 / 92
p0 47.16 ± 6.424
200
100
0
−100
−200
pull
Entries 93
Mean 159.8
Std Dev 0
2
1
0
−1
−2

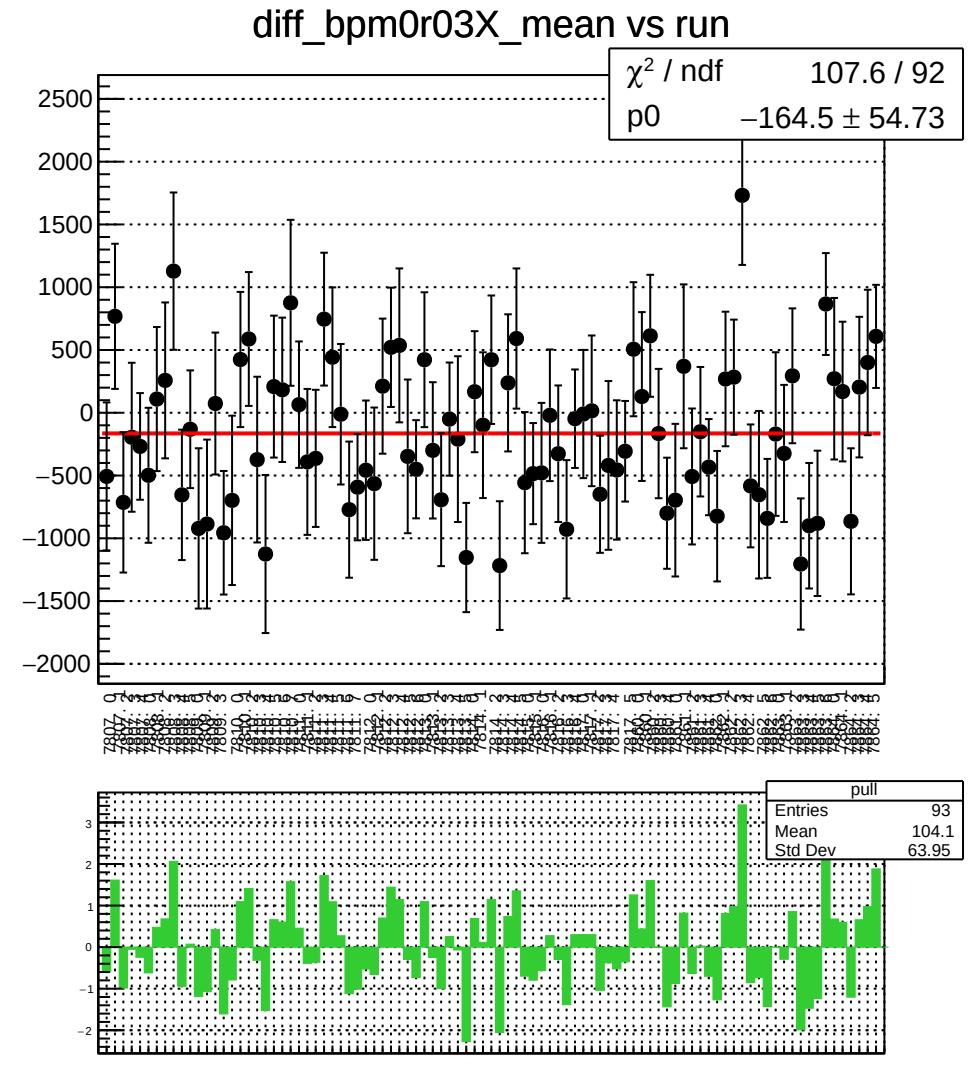

pull1D
Entries 93
Mean −0.01956
Std Dev 1.066
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

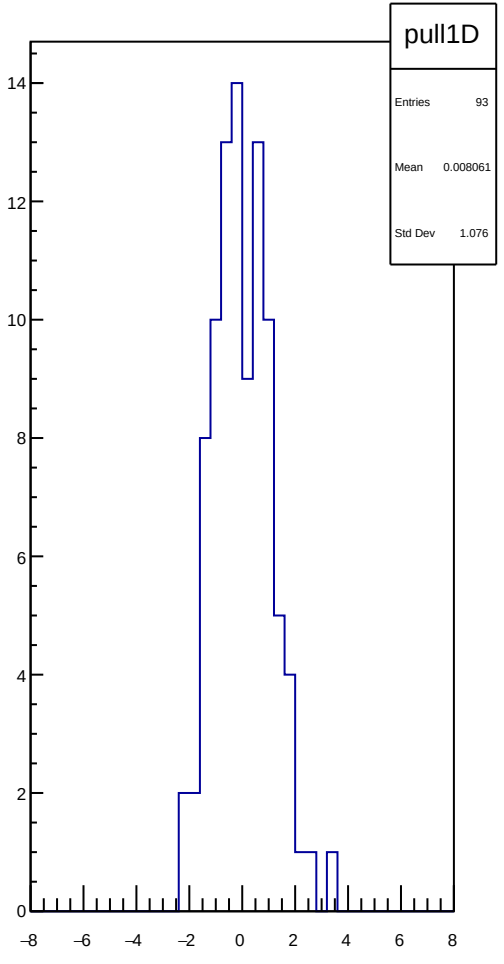

diff_bpm0l10X_rms vs run
χ² / ndf 1.783e+04 / 92
p0 6151 ± 4.542
9000
8000
7000
6000
5000

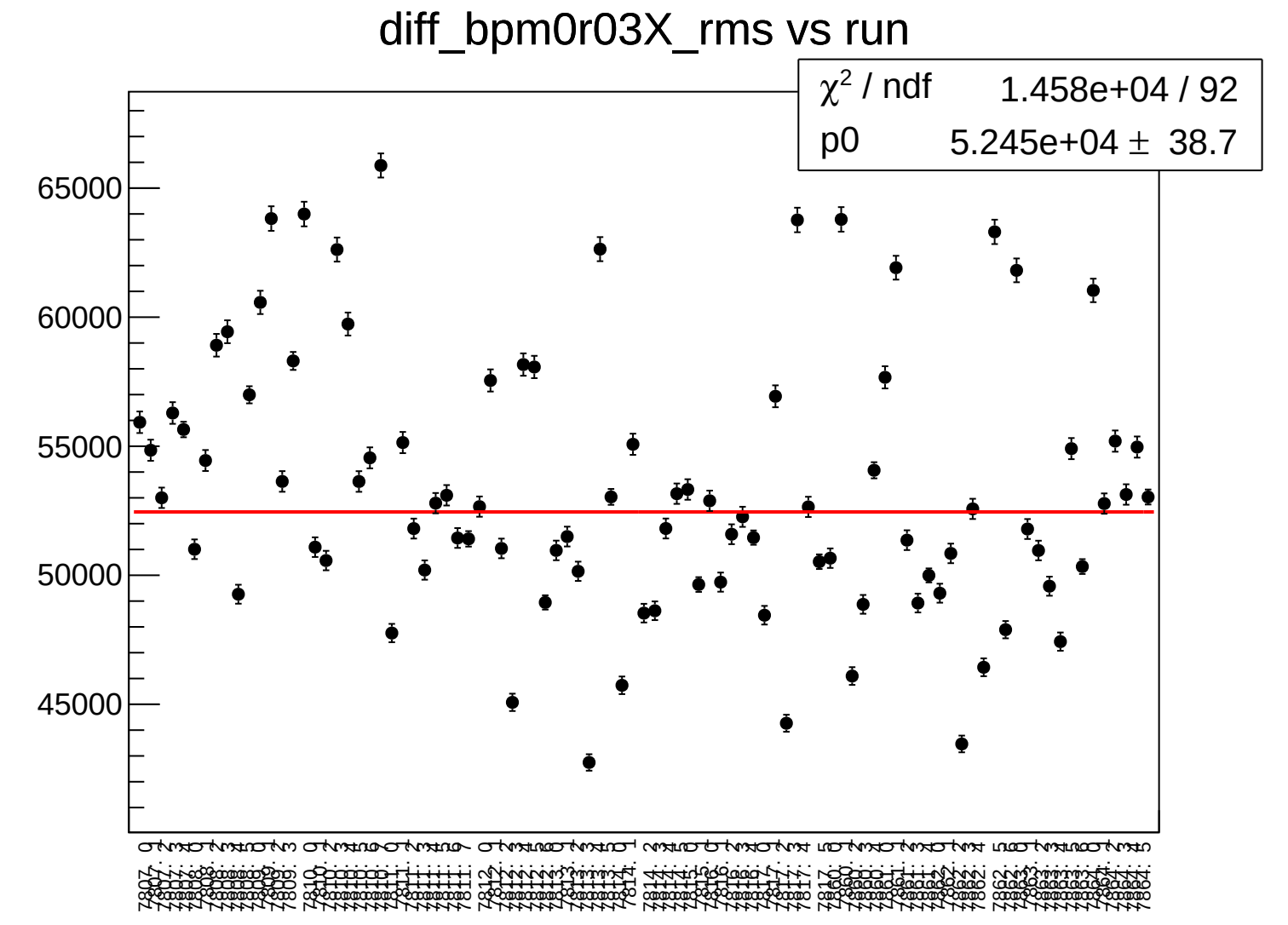

diff_bpm0l10Y_mean vs run
χ² / ndf 137.1 / 92
p0 −14.79 ± 1.086
pull
Entries 93
Mean −97.07
Std Dev 0

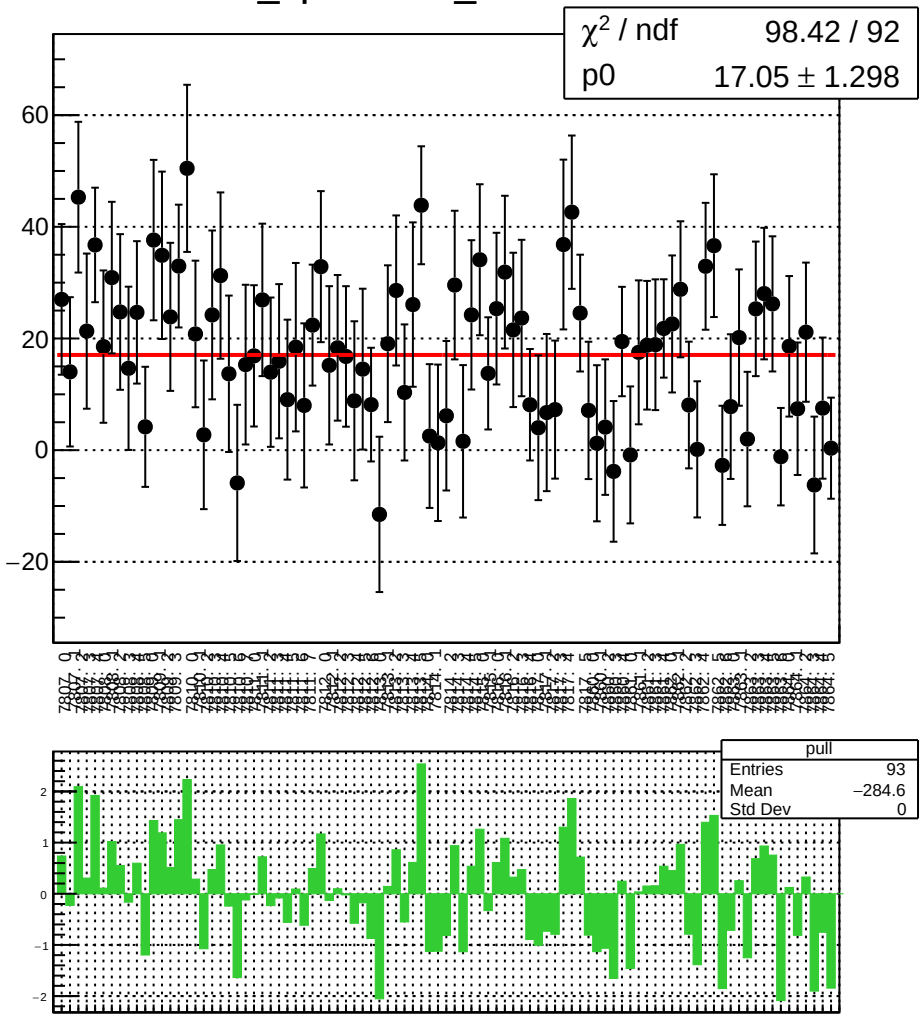

pull1D
Entries 93
Mean 0.02002
Std Dev 1.214

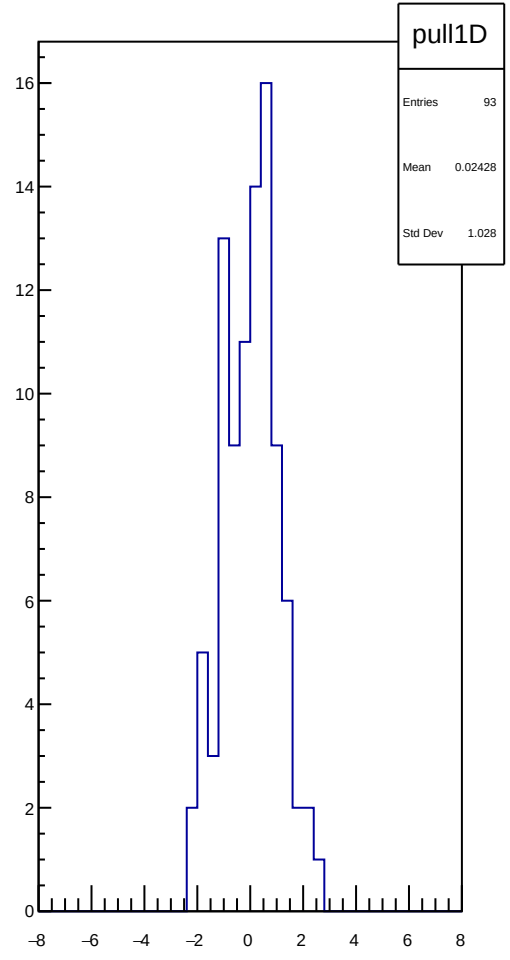

diff_bpm0l10Y_rms vs run
χ² / ndf 2498 / 92
p0 1044 ± 0.768
1200
1150
1100
1050
1000
950

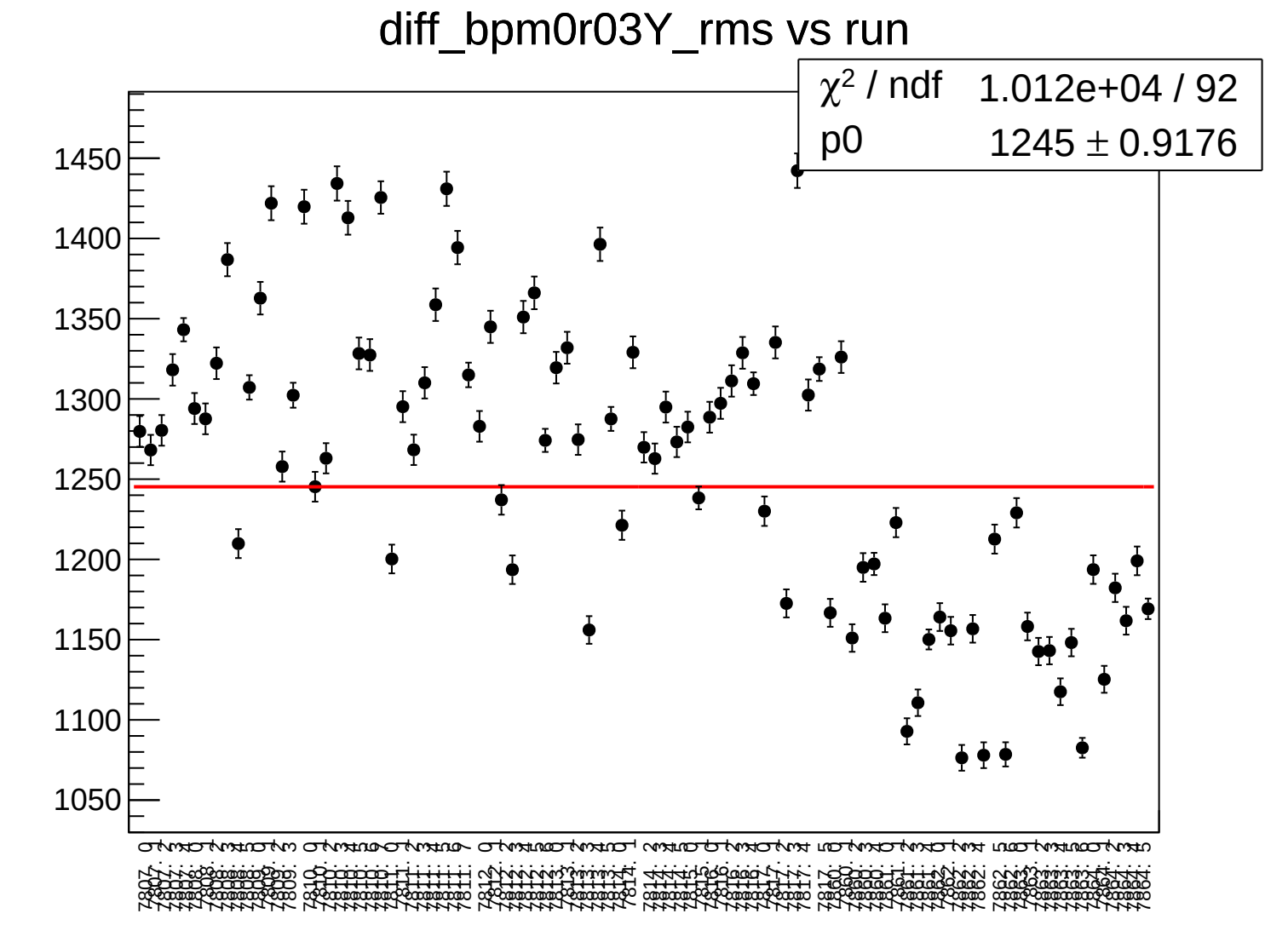

diff_bpm0r03X_mean vs run
χ² / ndf 107.6 / 92
p0 −164.5 ± 54.73
pull
Entries 93
Mean 104.1
Std Dev 63.95

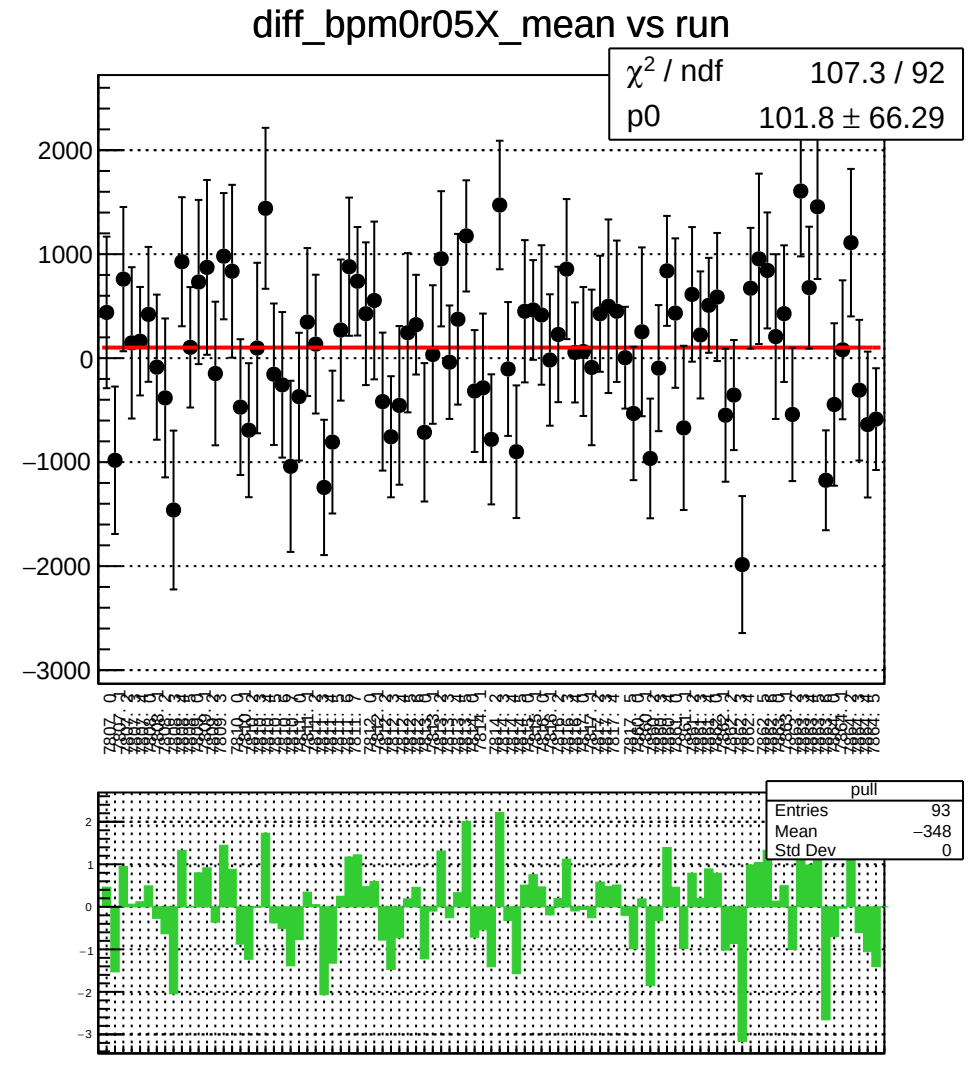

pull1D
Entries 93
Mean 0.008061
Std Dev 1.076

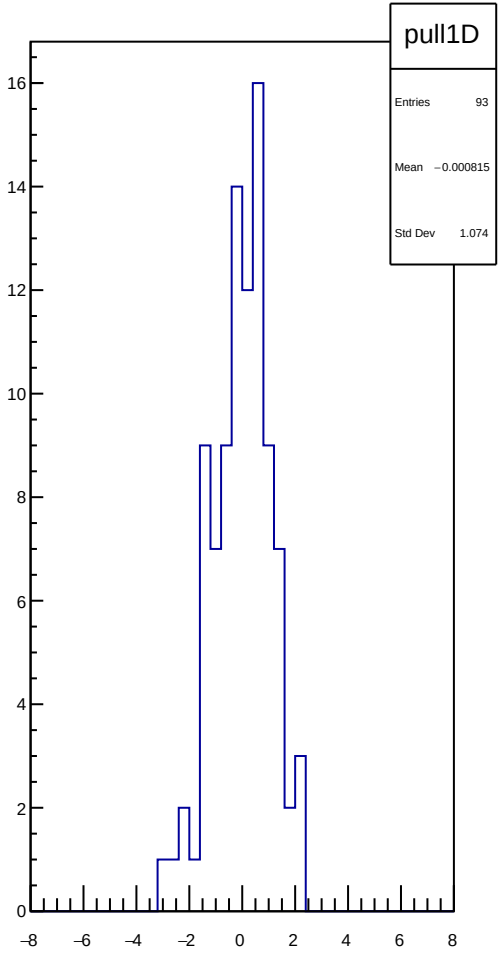

diff_bpm0r03X_rms vs run
χ^2 / ndf 1.458e+04 / 92
p0 5.245e+04 ± 38.7
65000
60000
55000
50000
45000

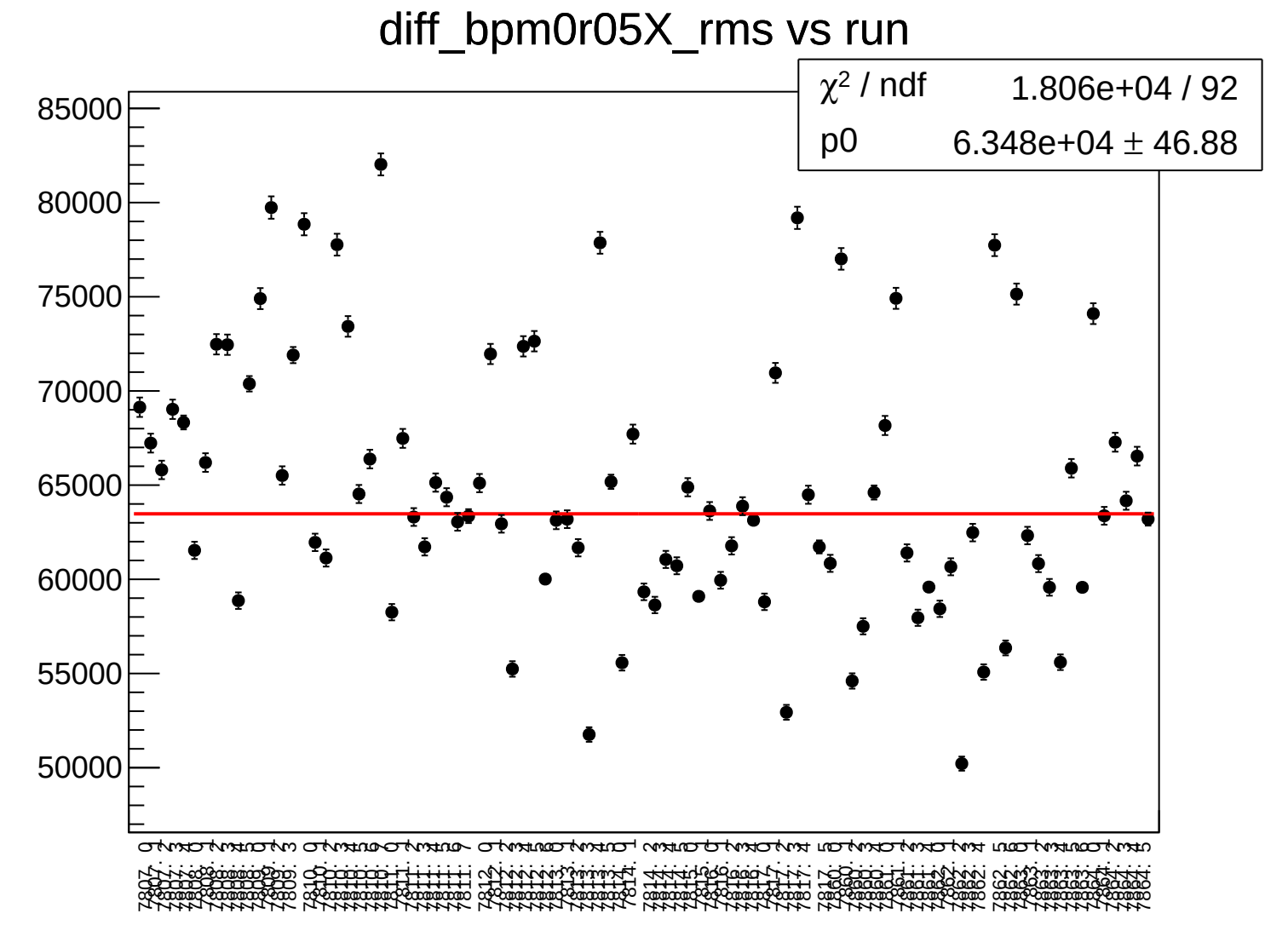

diff_bpm0r03Y_mean vs run
χ² / ndf 98.42 / 92
p0 17.05 ± 1.298
pull
Entries 93
Mean −284.6
Std Dev 0

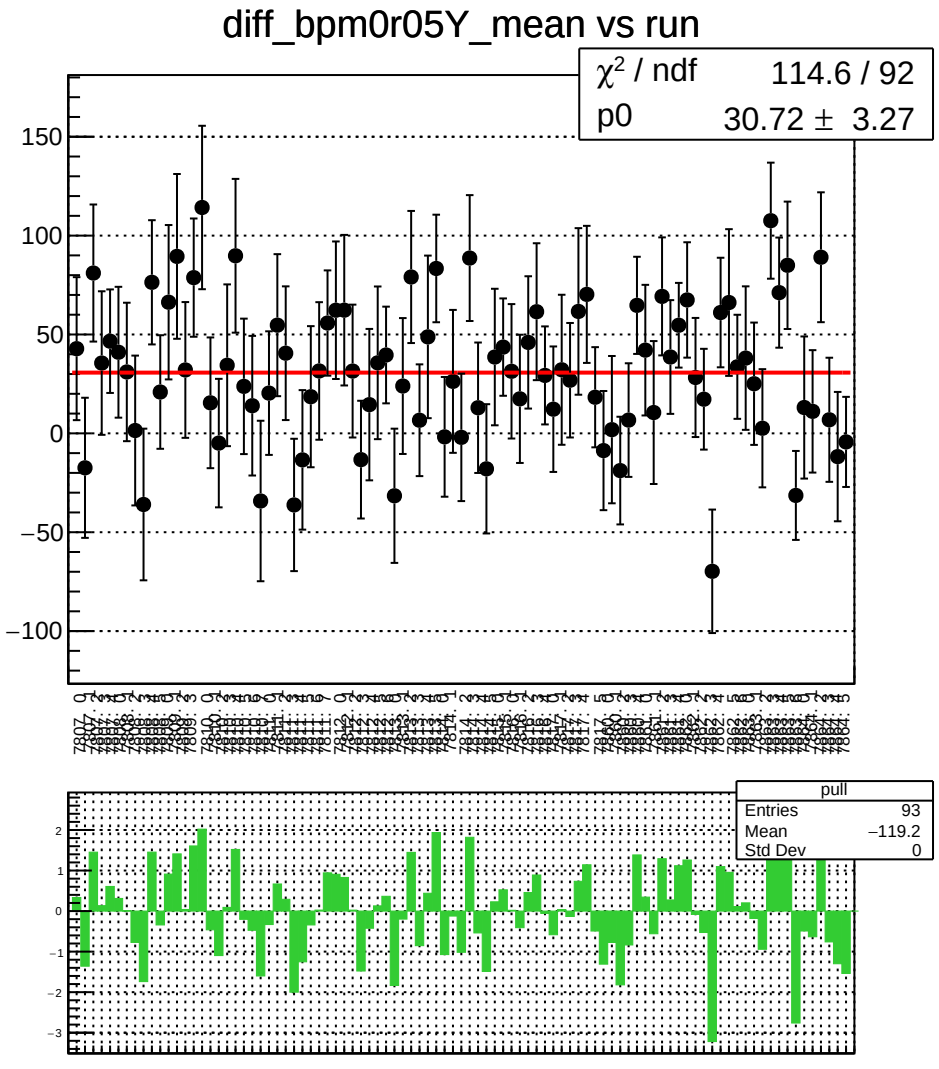

pull1D
Entries 93
Mean 0.02428
Std Dev 1.028

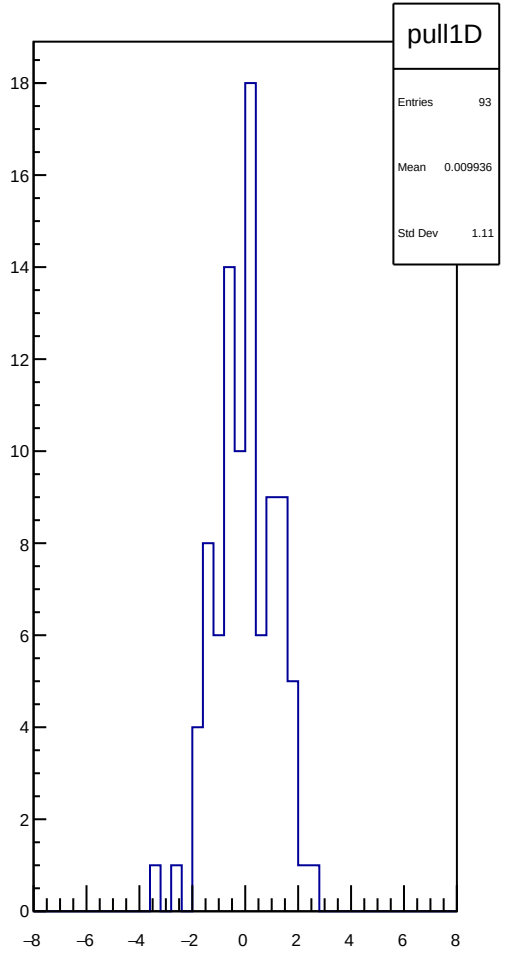

diff_bpm0r03Y_rms vs run
χ² / ndf 1.012e+04 / 92
p0 1245 ± 0.9176
1450
1400
1350
1300
1250
1200
1150
1100
1050

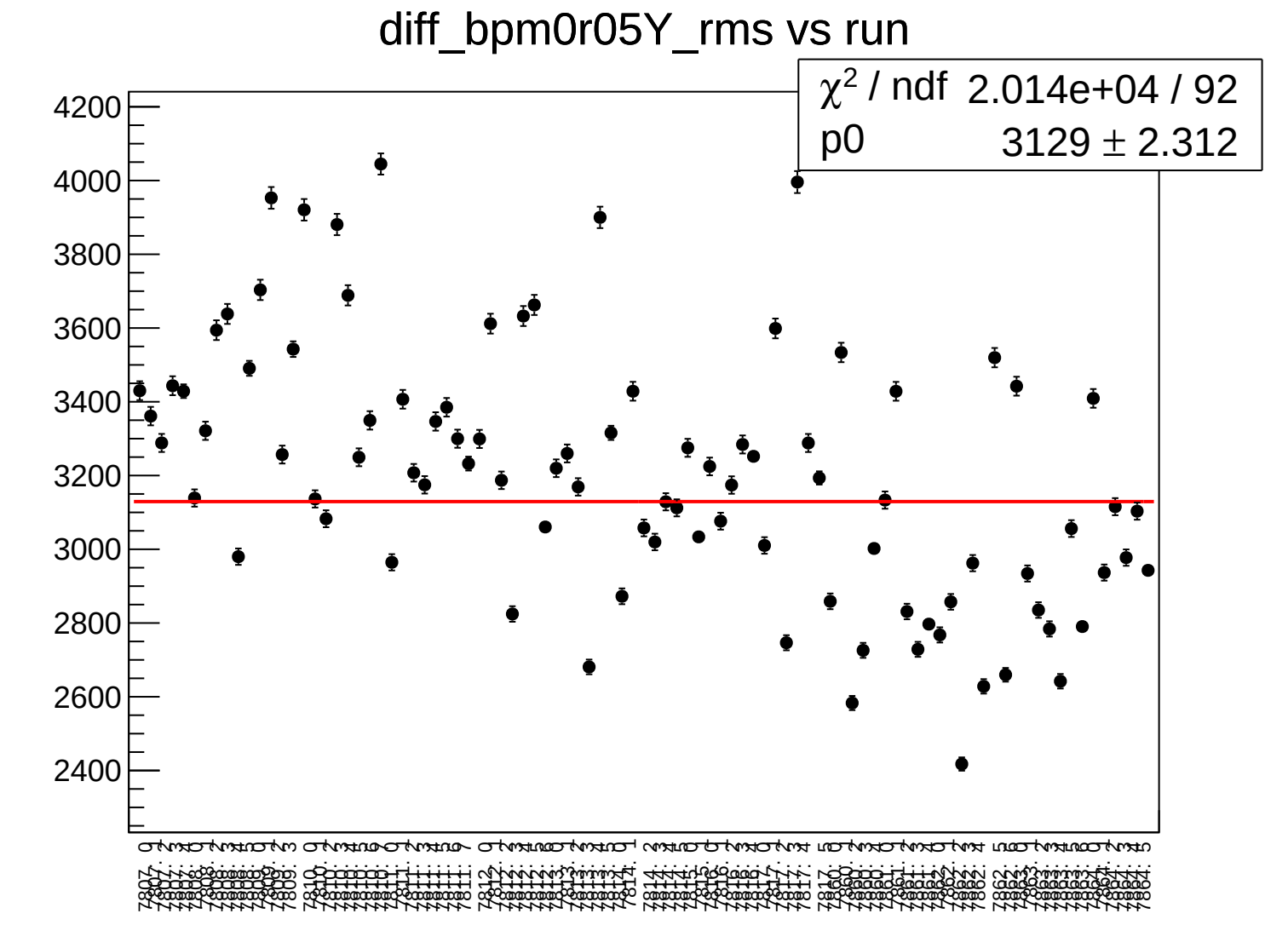

diff_bpm0r05X_mean vs run
χ² / ndf 107.3 / 92
p0 101.8 ± 66.29
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean −348
Std Dev 0
2
1
0
−1
−2
−3

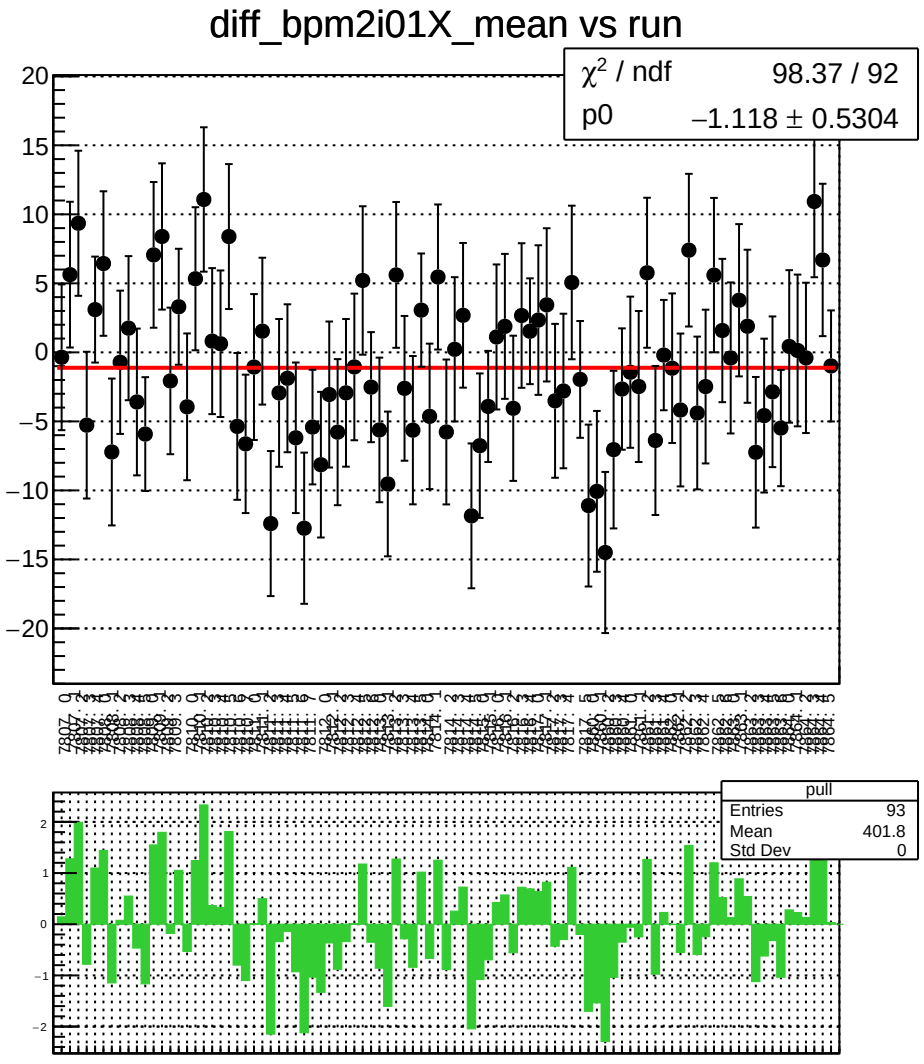

pull1D
Entries 93
Mean −0.000815
Std Dev 1.074
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

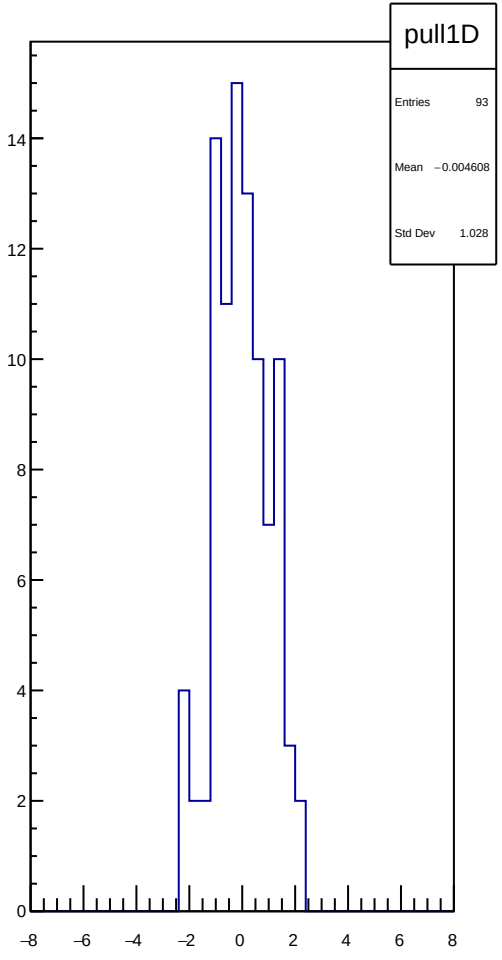

diff_bpm0r05X_rms vs run
χ^2 / ndf 1.806e+04 / 92
p0 6.348e+04 ± 46.88
85000
80000
75000
70000
65000
60000
55000
50000

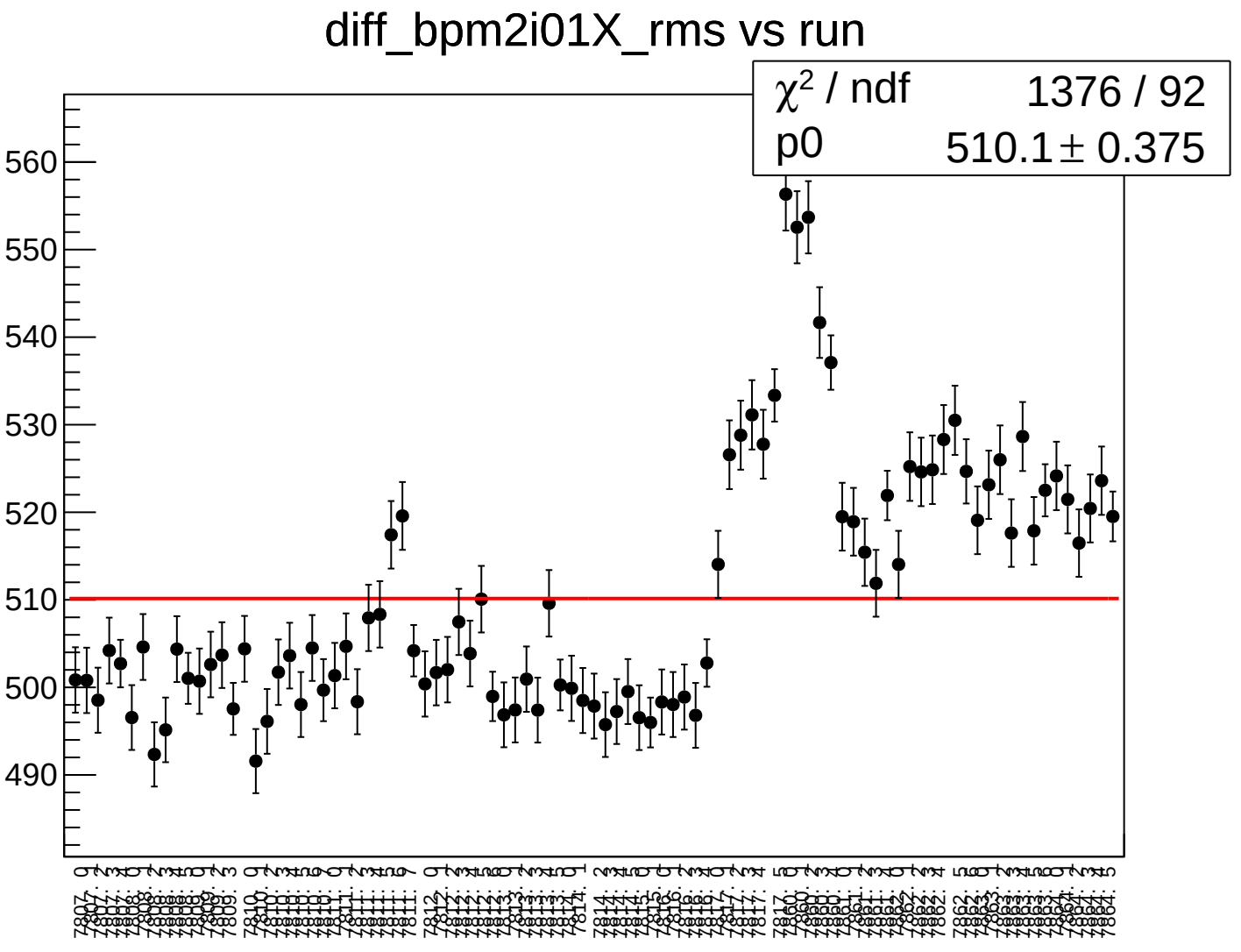

diff_bpm0r05Y_mean vs run
χ² / ndf 114.6 / 92
p0 30.72 ± 3.27
150
100
50
0
−50
−100
pull
Entries 93
Mean −119.2
Std Dev 0
2
1
0
−1
−2
−3

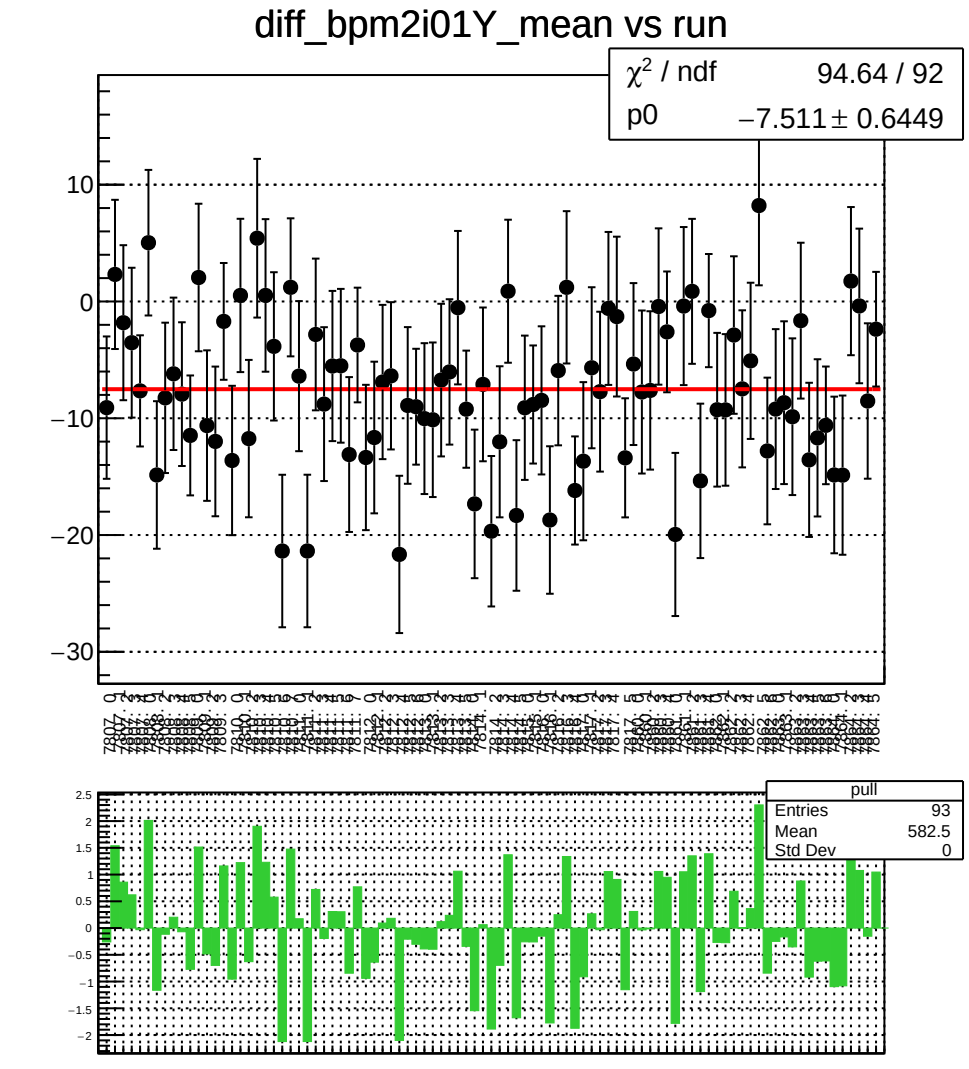

pull1D
Entries 93
Mean 0.009936
Std Dev 1.11
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

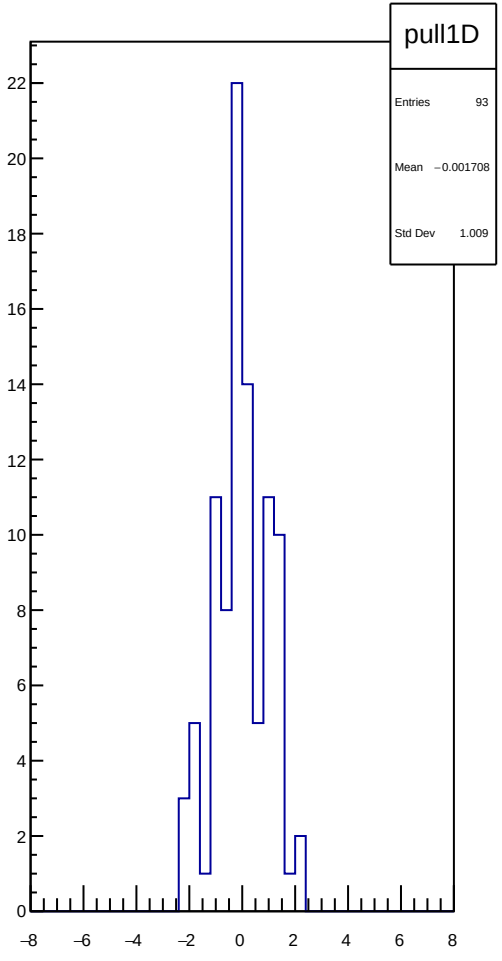

diff_bpm0r05Y_rms vs run
χ² / ndf 2.014e+04 / 92
p0 3129 ± 2.312
4200
4000
3800
3600
3400
3200
3000
2800
2600
2400

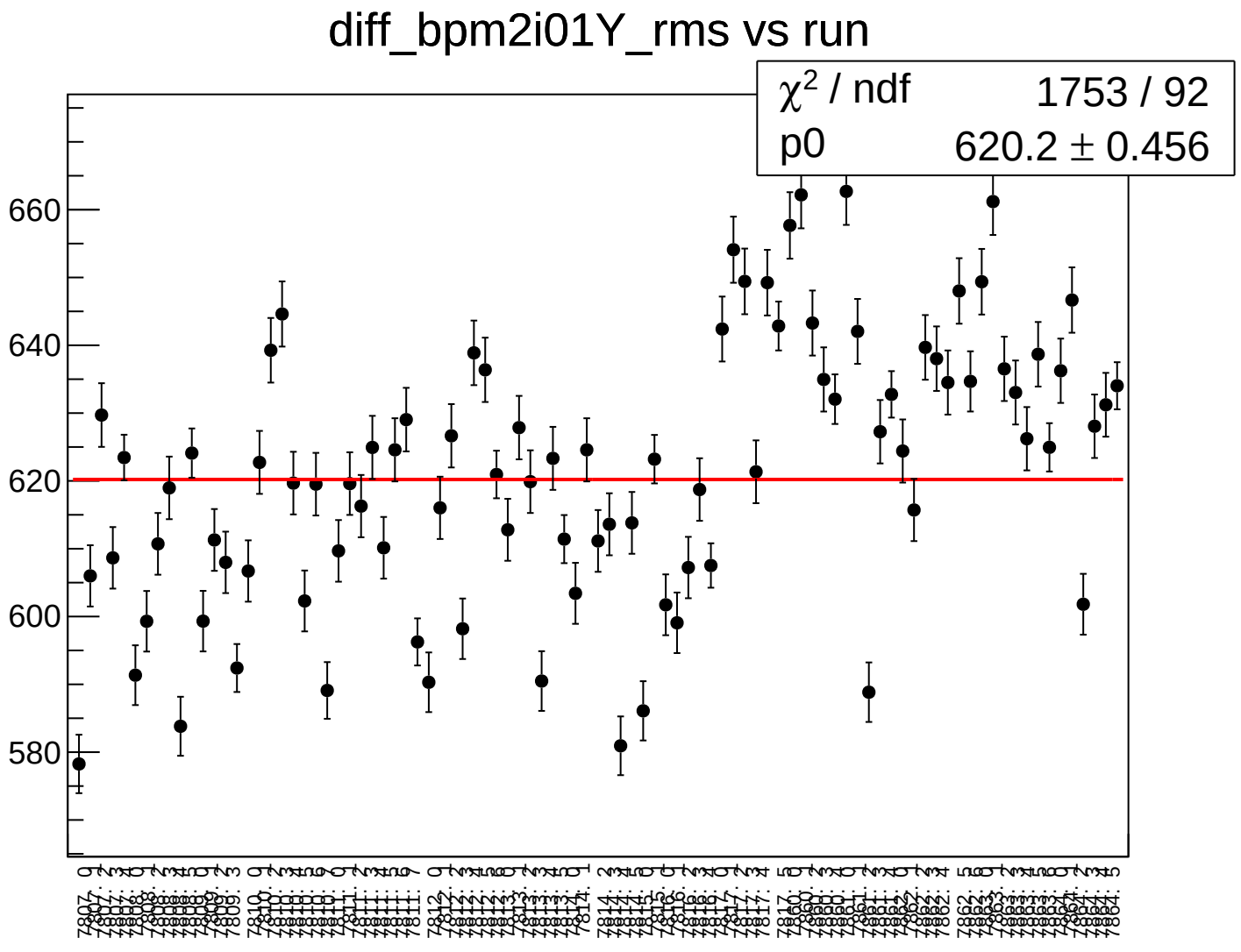

diff_bpm2i01X_mean vs run
χ² / ndf 98.37 / 92
p0 −1.118 ± 0.5304
pull
Entries 93
Mean 401.8
Std Dev 0

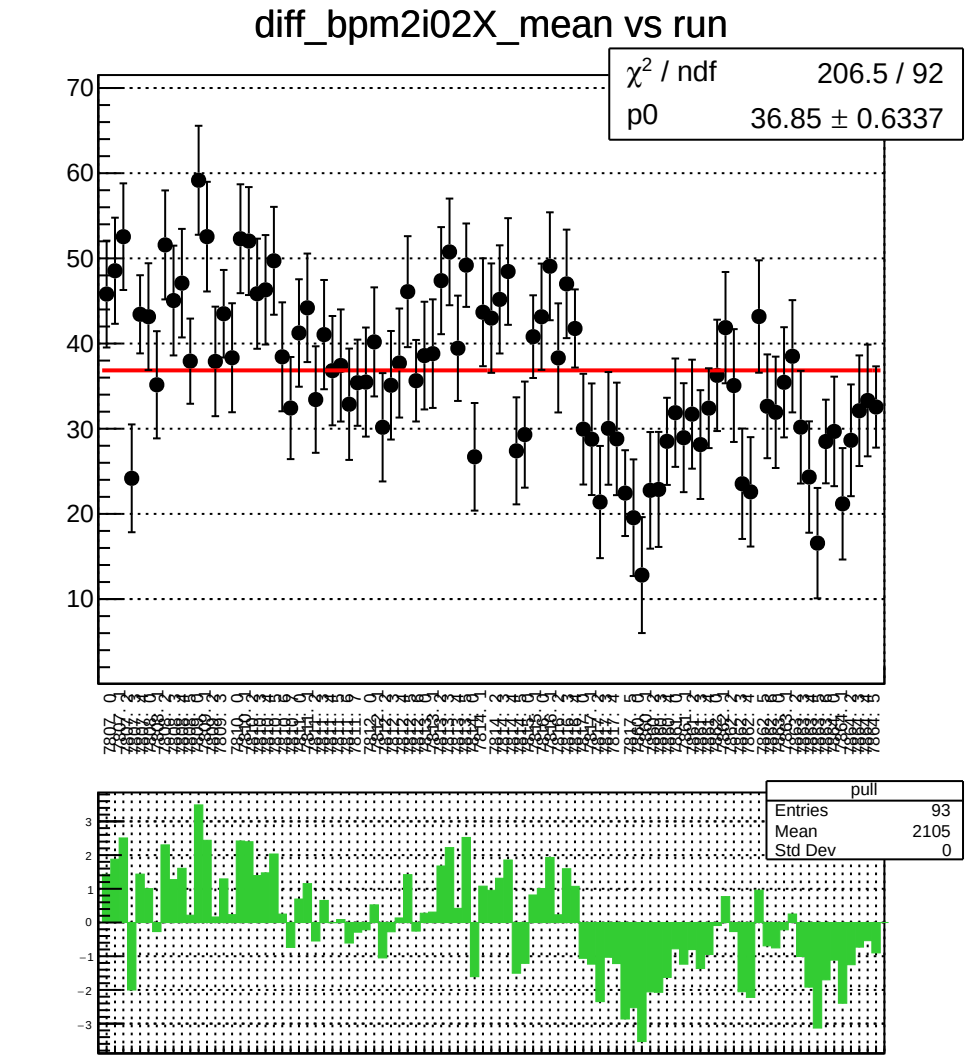

pull1D
Entries 93
Mean −0.004608
Std Dev 1.028

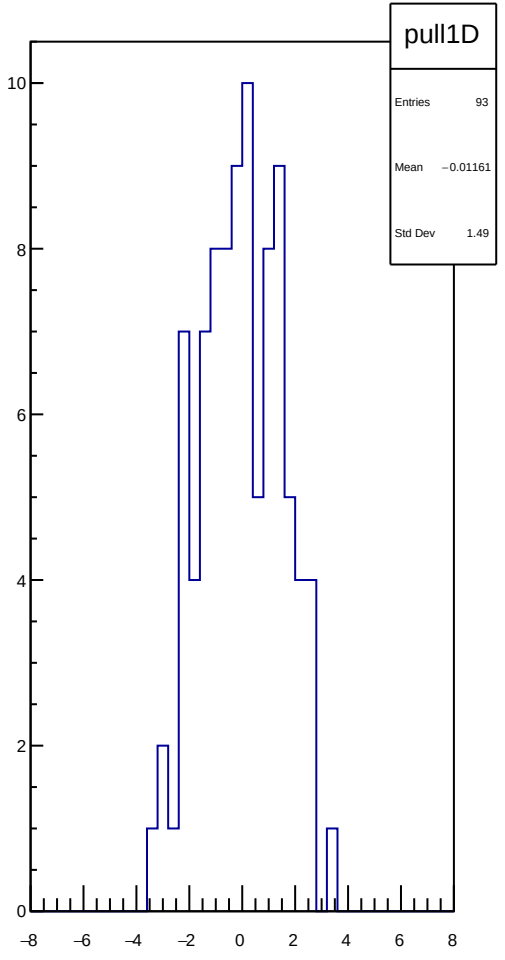

diff_bpm2i01X_rms vs run
χ² / ndf 1376 / 92
p0 510.1 ± 0.375
560
550
540
530
520
510
500
490

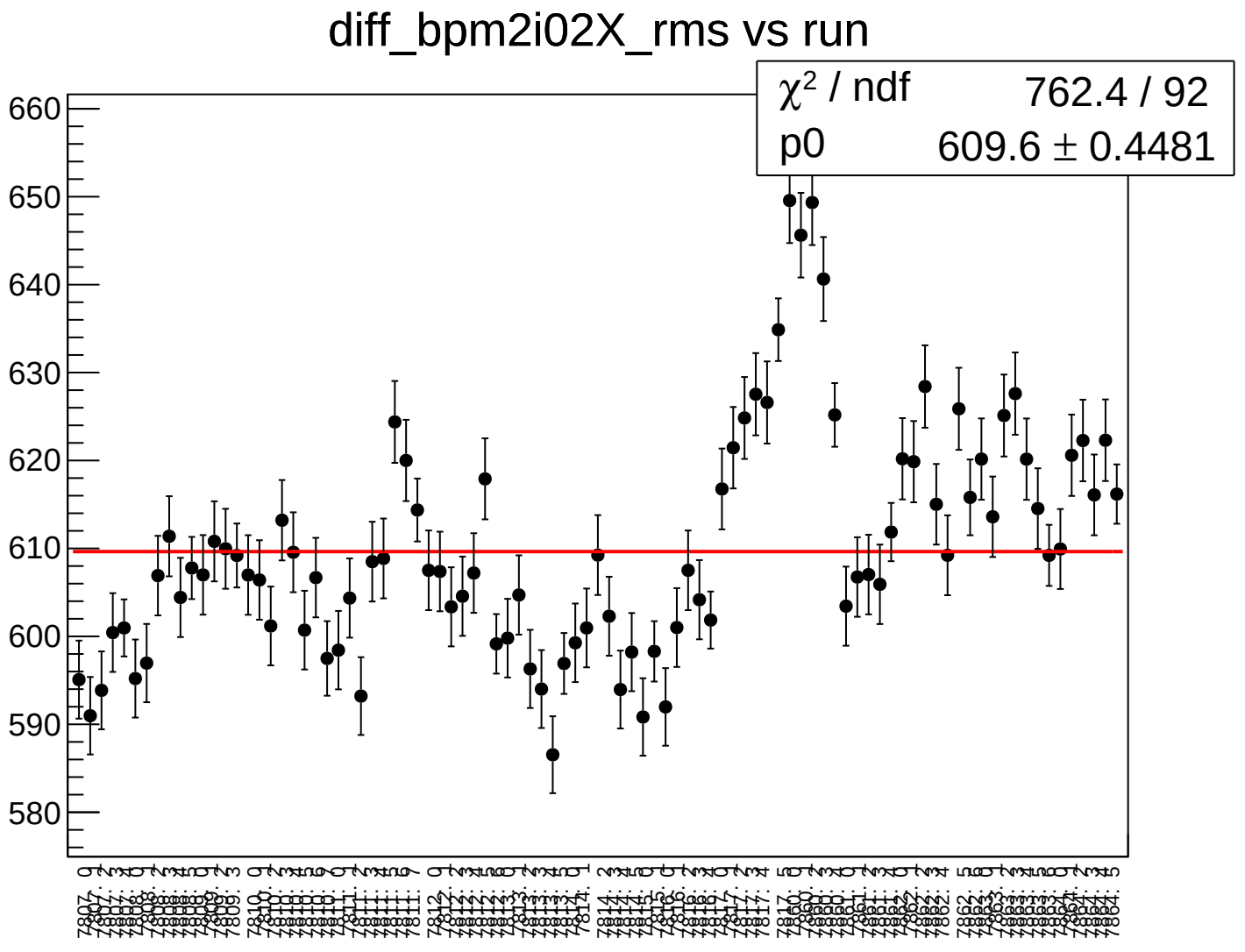

diff_bpm2i01Y_mean vs run
χ² / ndf 94.64 / 92
p0 −7.511 ± 0.6449
pull
Entries 93
Mean 582.5
Std Dev 0

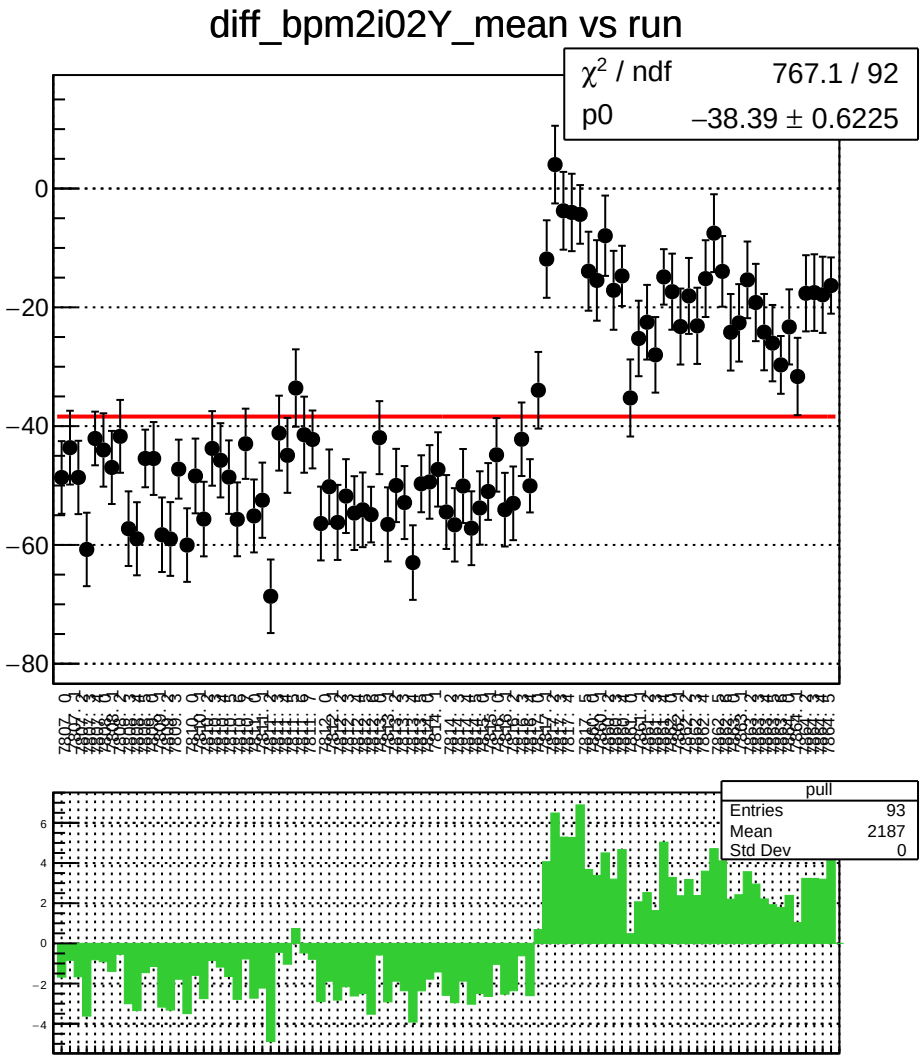

pull1D
Entries 93
Mean −0.001708
Std Dev 1.009

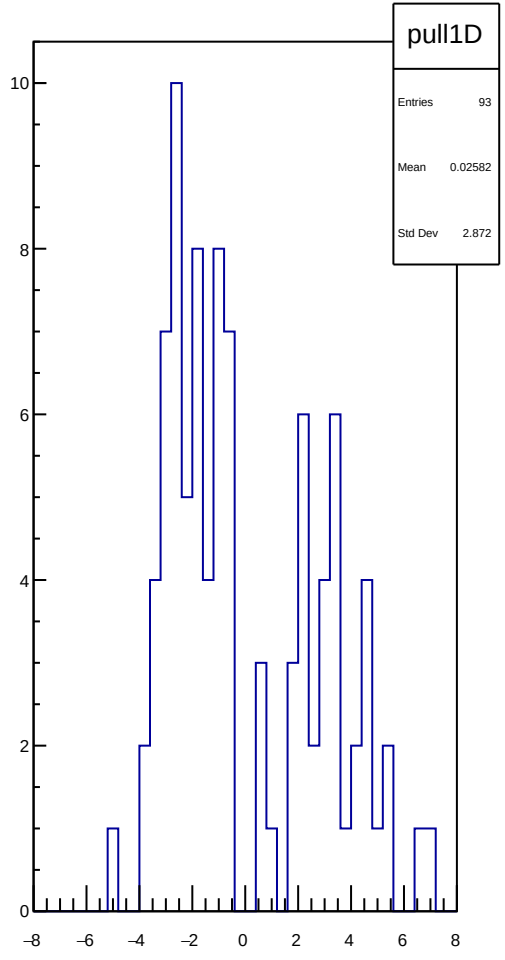

diff_bpm2i01Y_rms vs run
χ² / ndf 1753 / 92
p0 620.2 ± 0.456
660
640
620
600
580

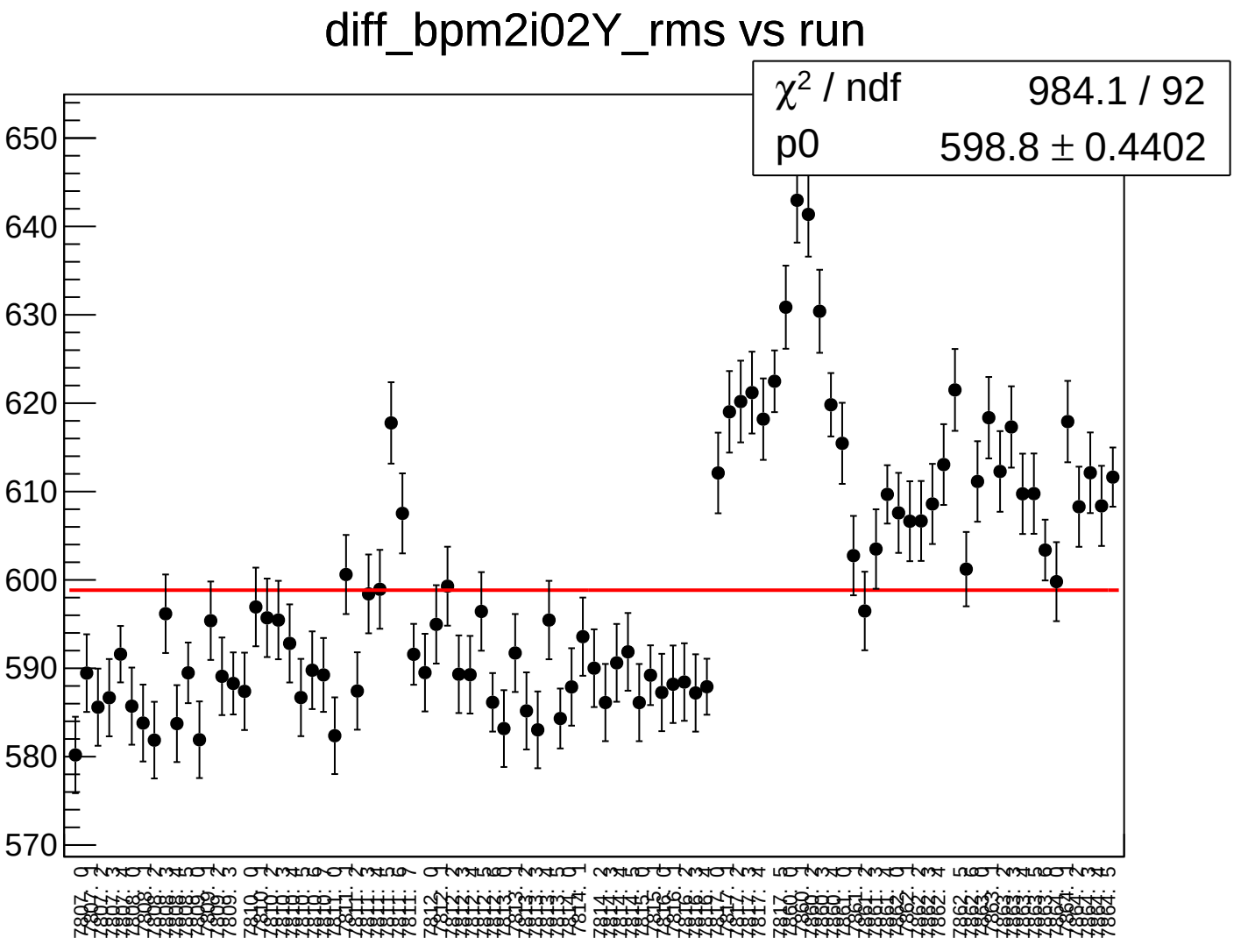

diff_bpm2i02X_mean vs run
χ² / ndf 206.5 / 92
p0 36.85 ± 0.6337
pull
Entries 93
Mean 2105
Std Dev 0

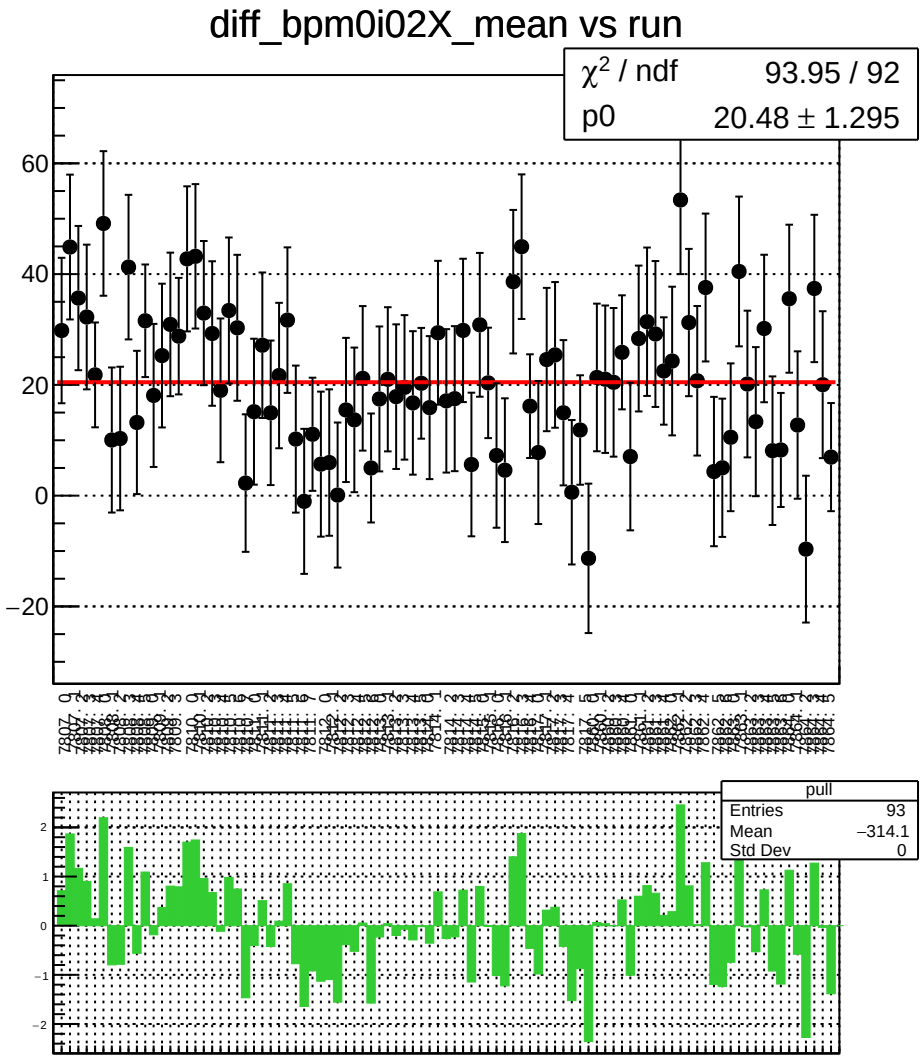

pull1D
Entries 93
Mean −0.01161
Std Dev 1.49

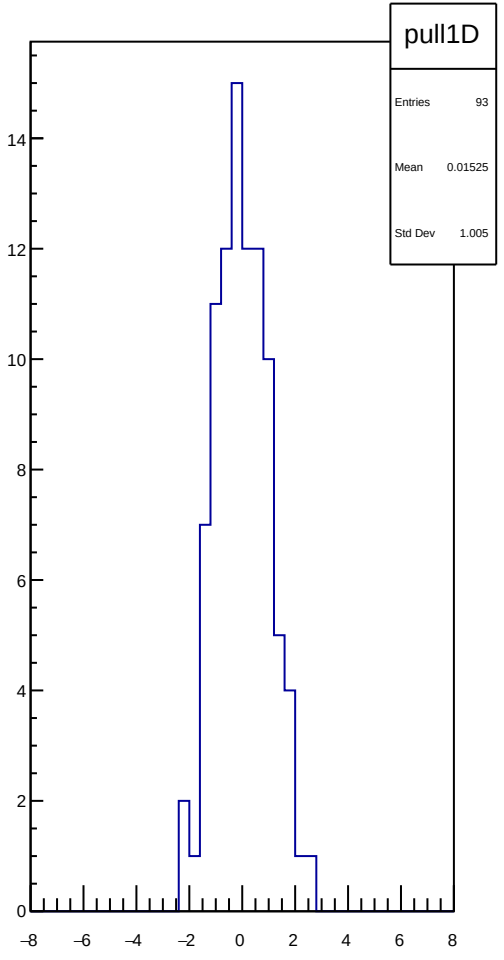

diff_bpm2i02X_rms vs run
χ² / ndf 762.4 / 92
p0 609.6 ± 0.4481
660
650
640
630
620
610
600
590
580

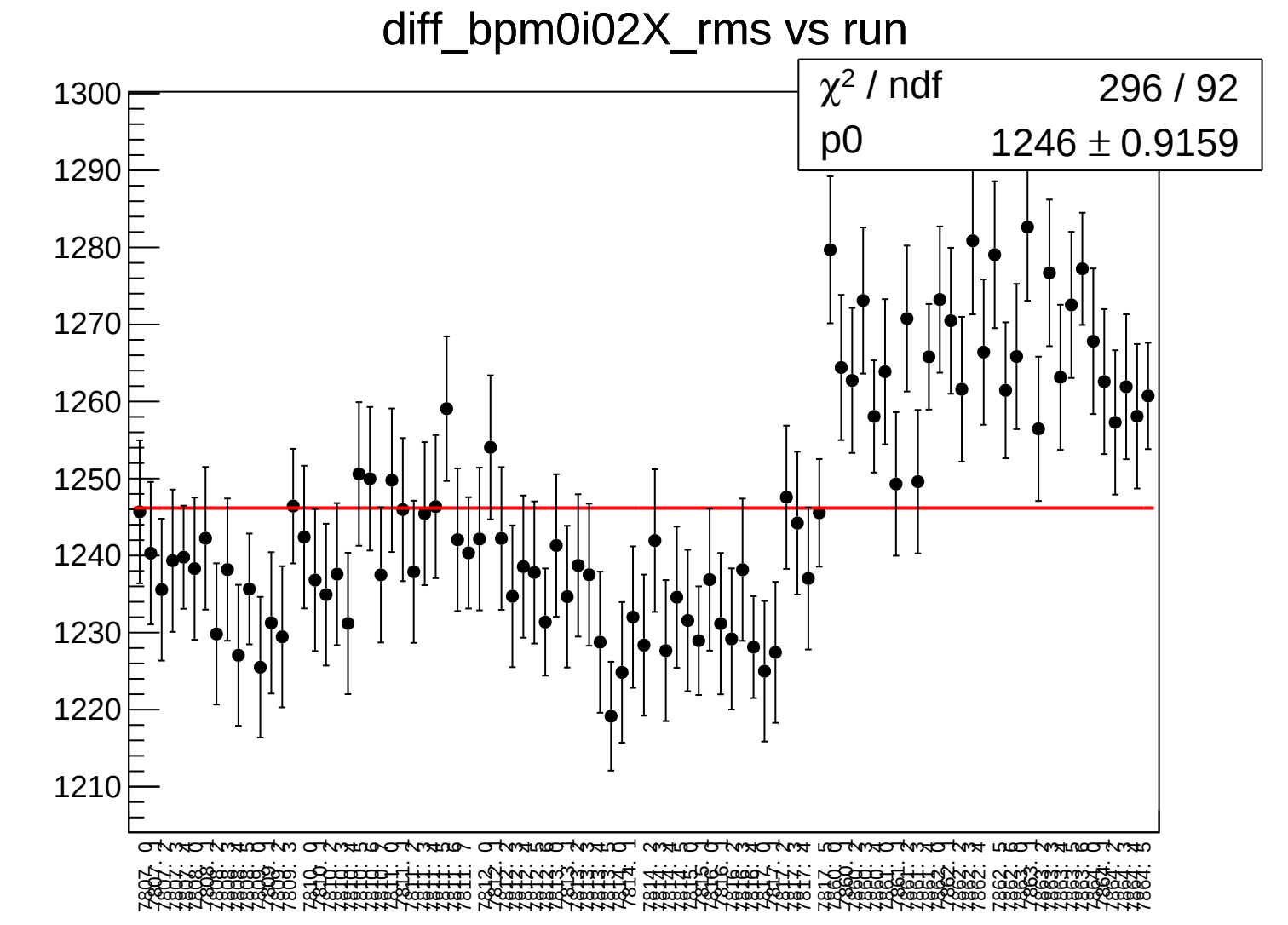

diff_bpm2i02Y_mean vs run
χ² / ndf 767.1 / 92
p0 −38.39 ± 0.6225
0
−20
−40
−60
−80
pull
Entries 93
Mean 2187
Std Dev 0
6
4
2
0
−2
−4

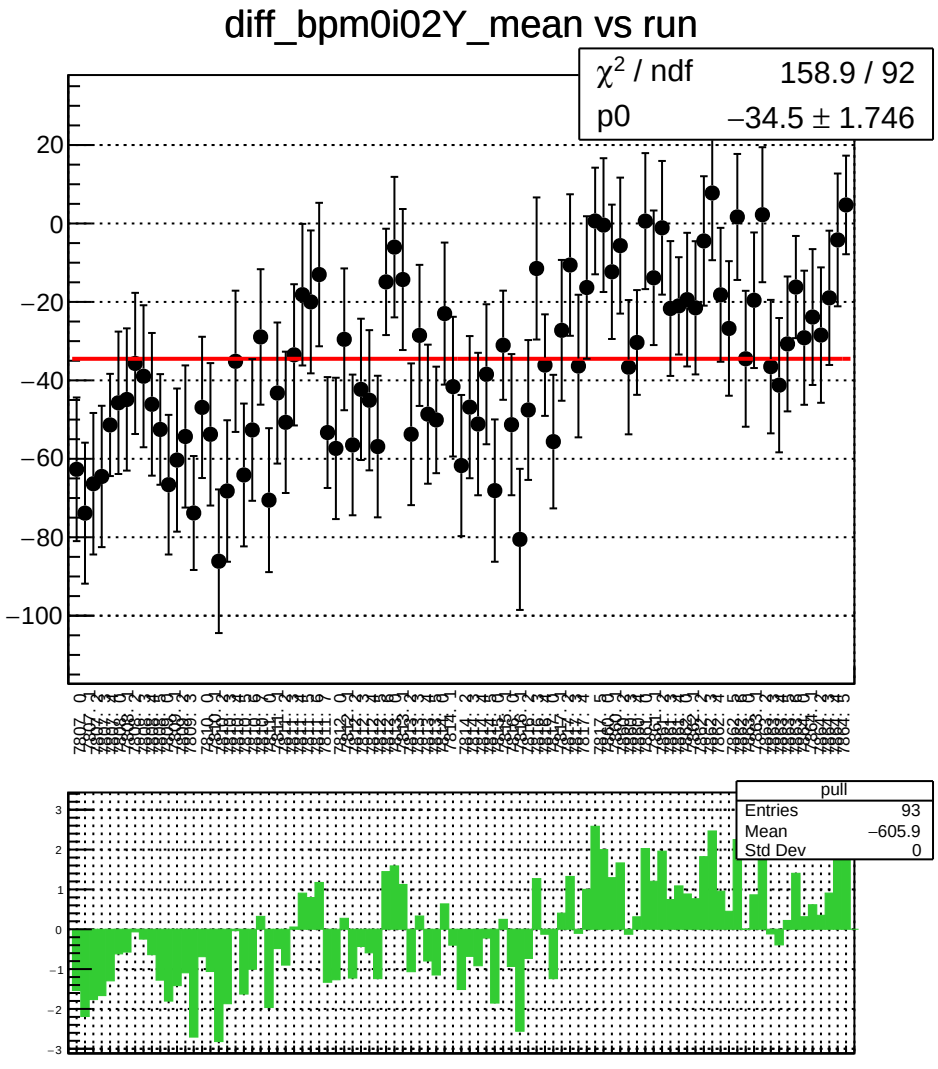

pull1D
Entries 93
Mean 0.02582
Std Dev 2.872
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

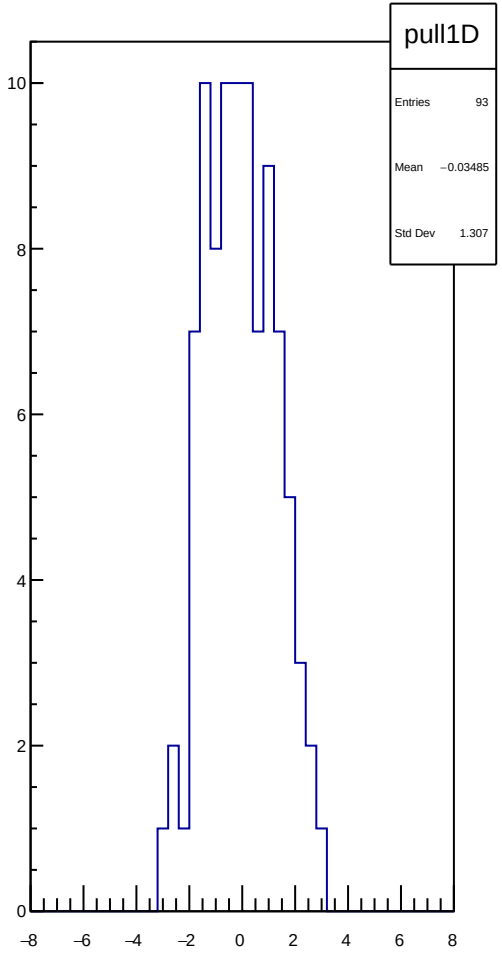

diff_bpm2i02Y_rms vs run
χ² / ndf 984.1 / 92
p0 598.8 ± 0.4402
650
640
630
620
610
600
590
580
570

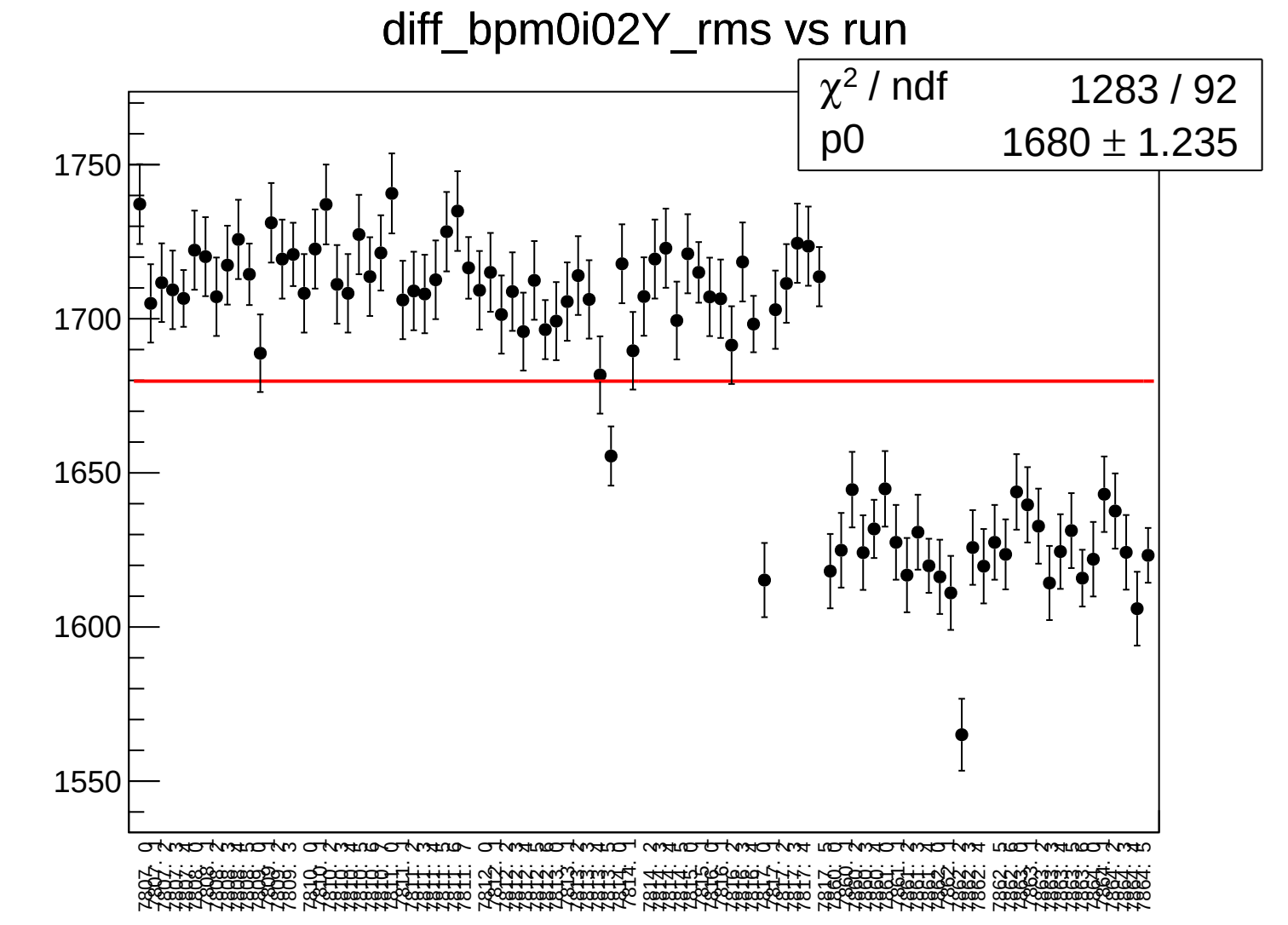

diff_bpm0i02X_mean vs run
χ² / ndf 93.95 / 92
p0 20.48 ± 1.295
pull
Entries 93
Mean −314.1
Std Dev 0

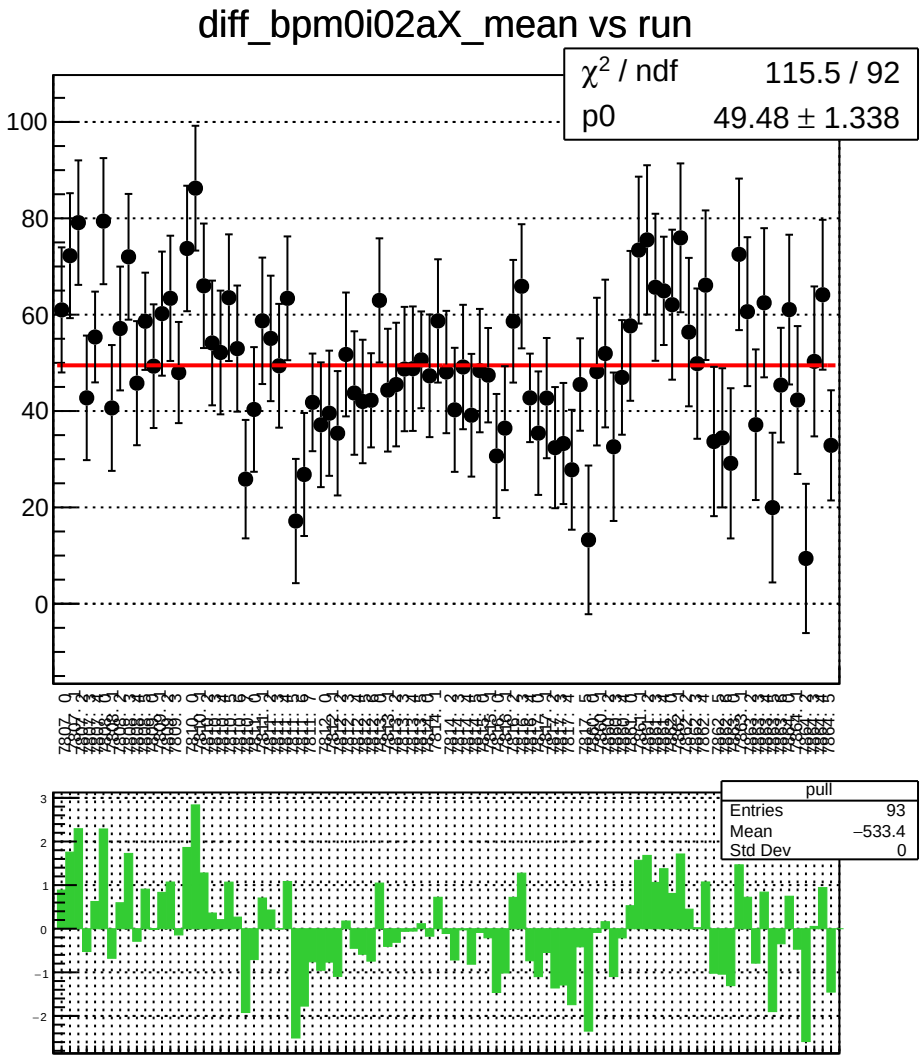

pull1D
Entries 93
Mean 0.01525
Std Dev 1.005

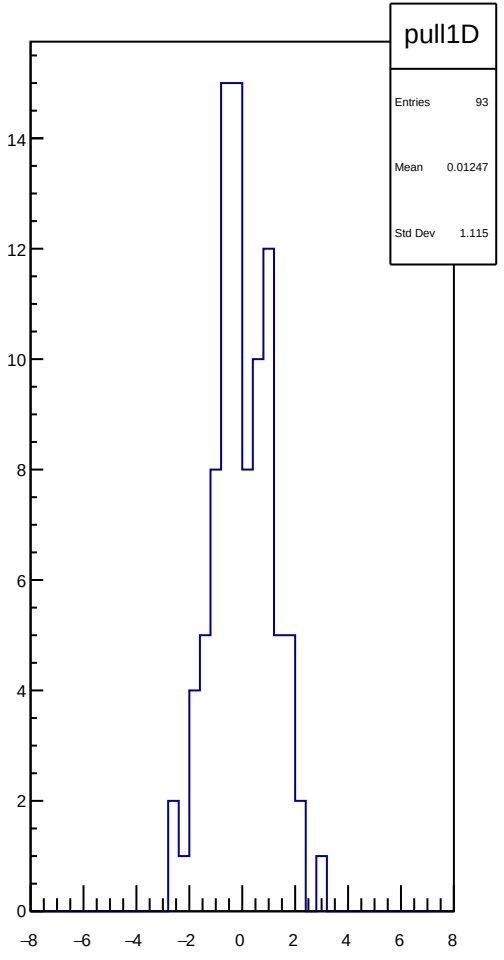

diff_bpm0i02X_rms vs run
χ² / ndf 296 / 92
p0 1246 ± 0.9159
1300
1290
1280
1270
1260
1250
1240
1230
1220
1210

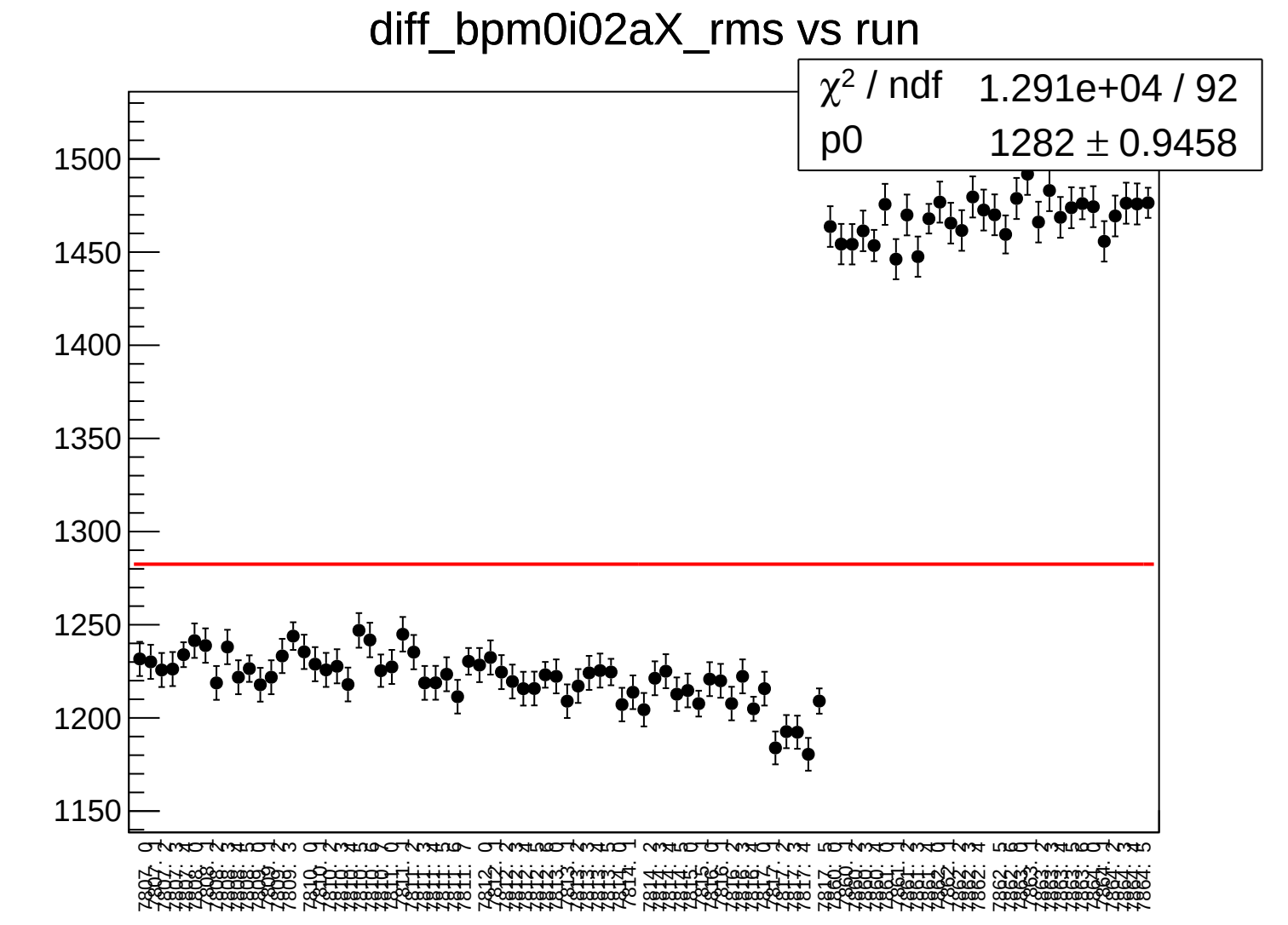

diff_bpm0i02Y_mean vs run
χ² / ndf 158.9 / 92
p0 −34.5 ± 1.746
pull
Entries 93
Mean −605.9
Std Dev 0

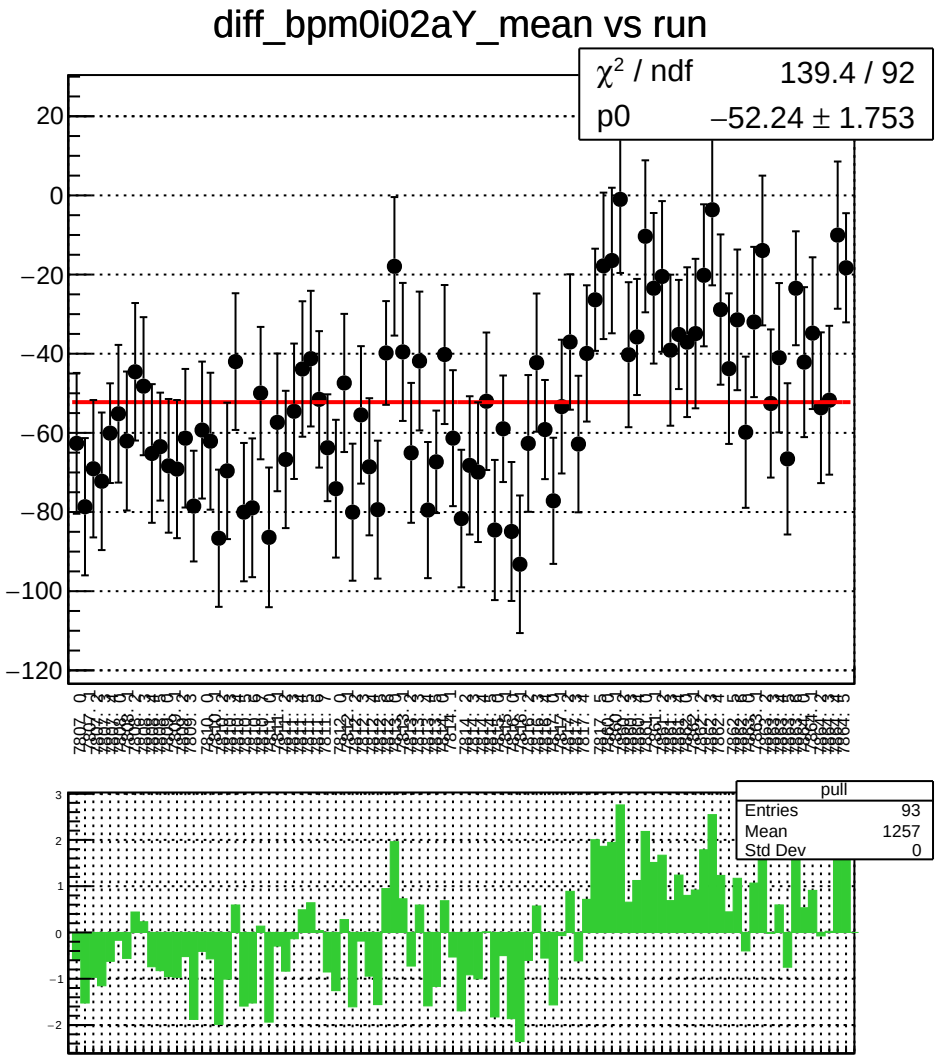

pull1D
Entries 93
Mean −0.03485
Std Dev 1.307

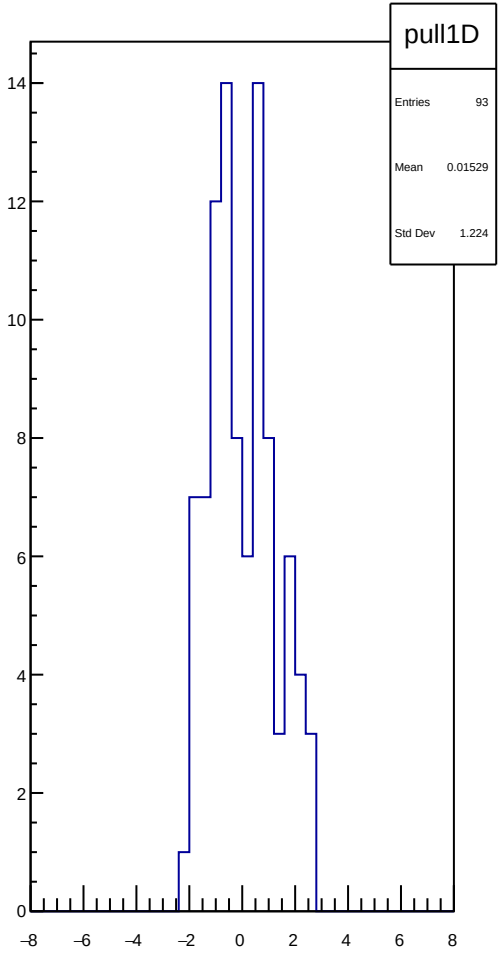

diff_bpm0i02Y_rms vs run
χ^2 / ndf 1283 / 92
p0 1680 ± 1.235
1750
1700
1650
1600
1550

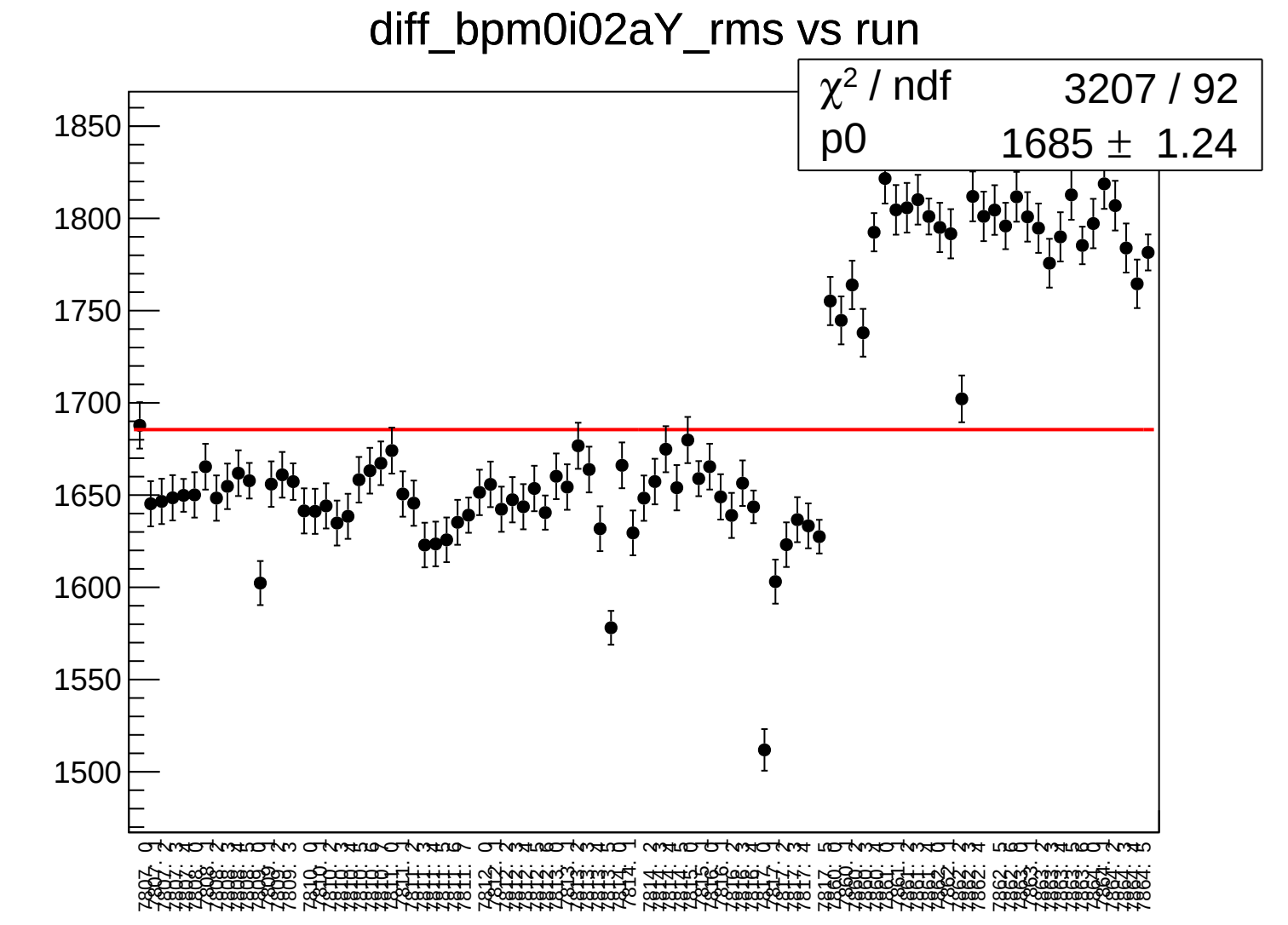

diff_bpm0i02aX_mean vs run
χ^2 / ndf 115.5 / 92
p0 49.48 ± 1.338
pull
Entries 93
Mean −533.4
Std Dev 0

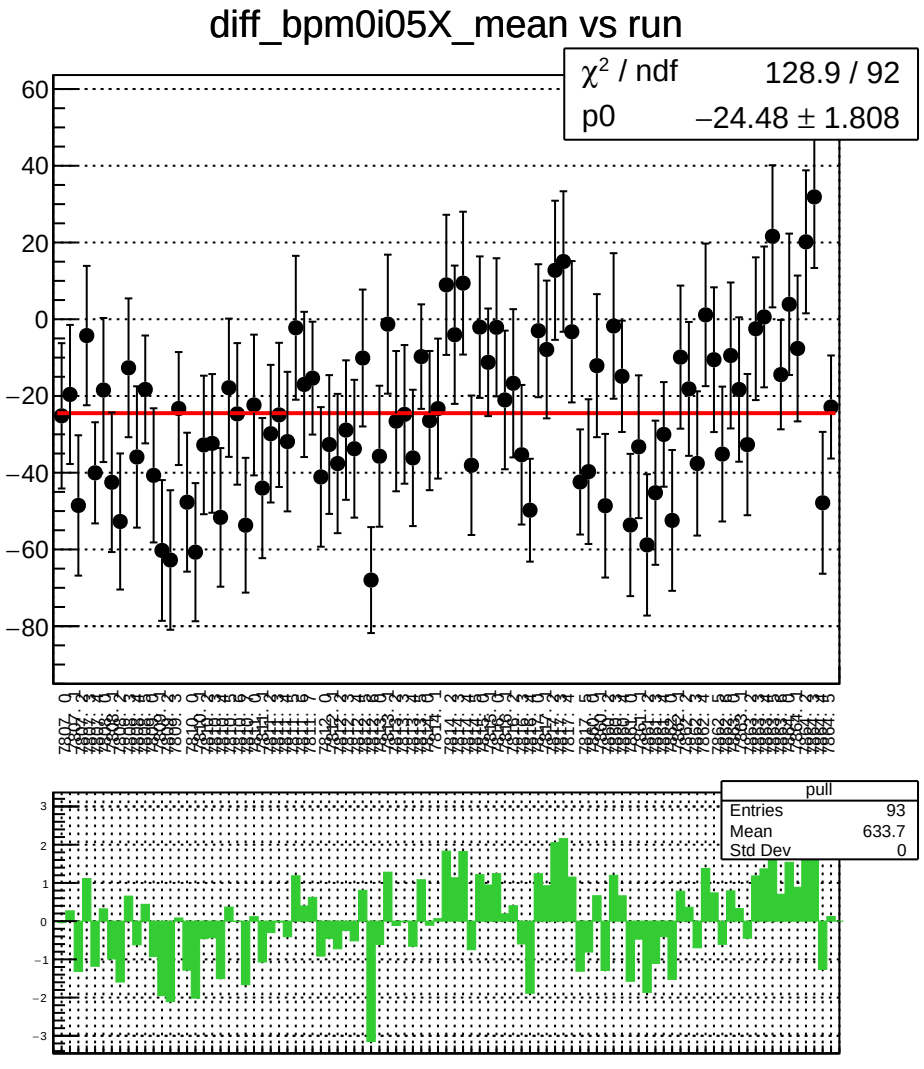

pull1D
Entries 93
Mean 0.01247
Std Dev 1.115

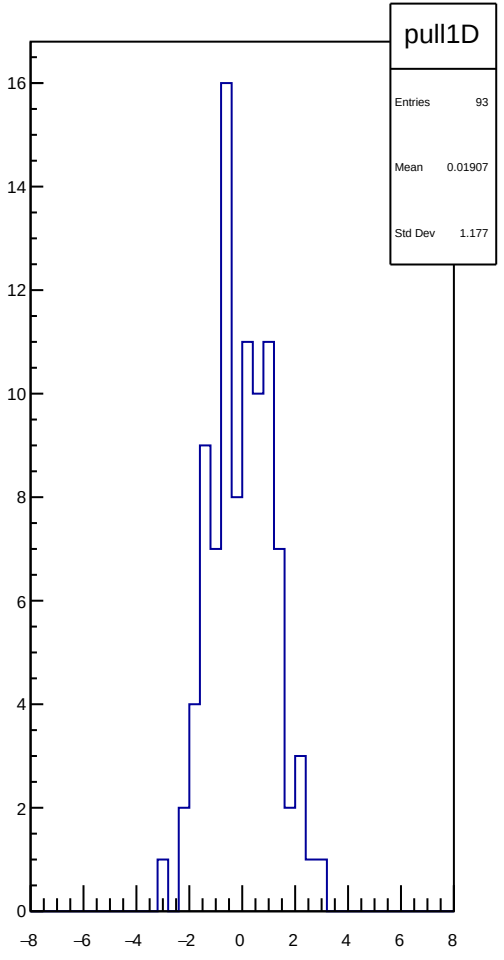

diff_bpm0i02aX_rms vs run
χ² / ndf 1.291e+04 / 92
p0 1282 ± 0.9458
1500
1450
1400
1350
1300
1250
1200
1150

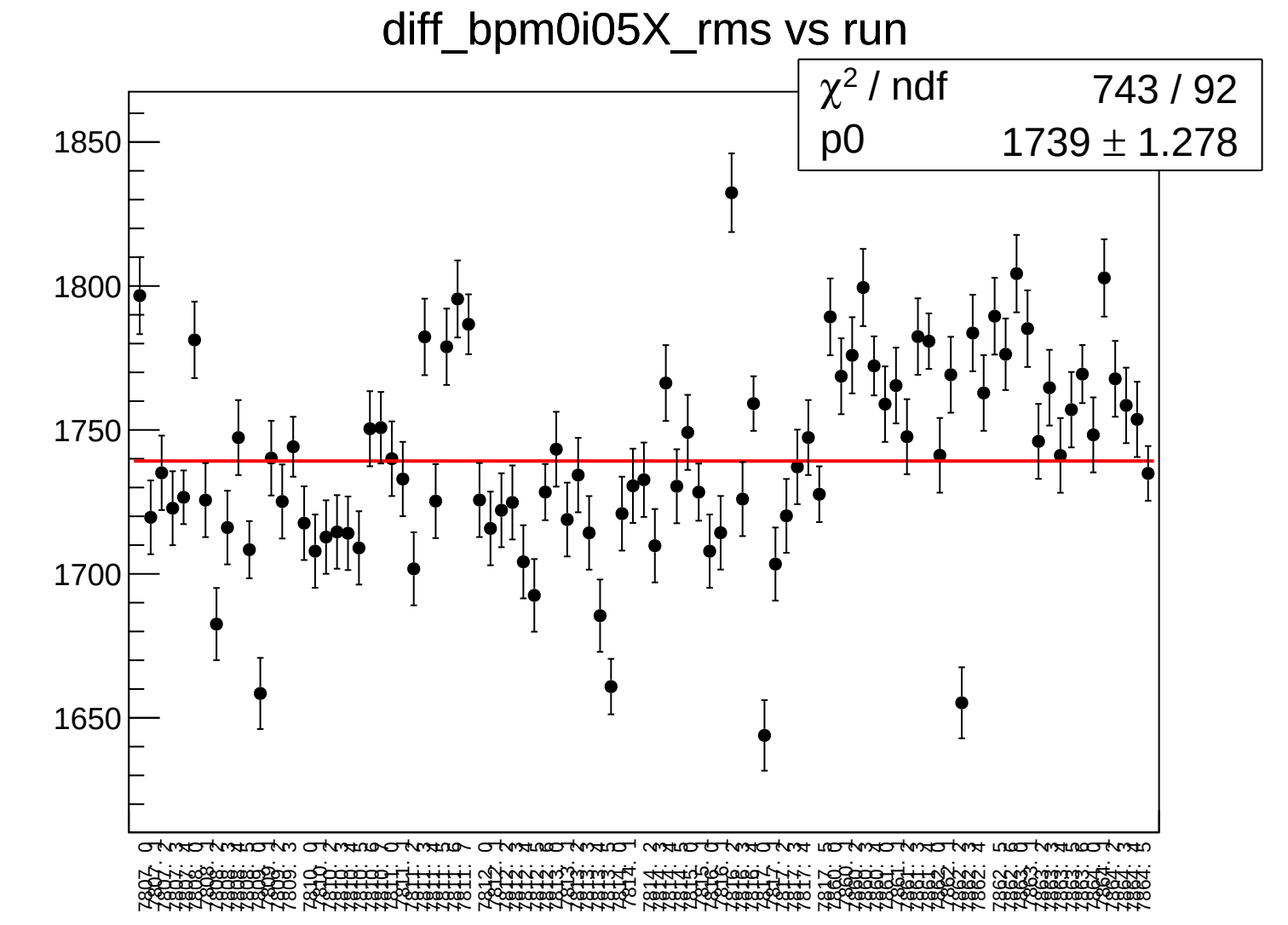

diff_bpm0i02aY_mean vs run
χ² / ndf 139.4 / 92
p0 −52.24 ± 1.753
pull
Entries 93
Mean 1257
Std Dev 0

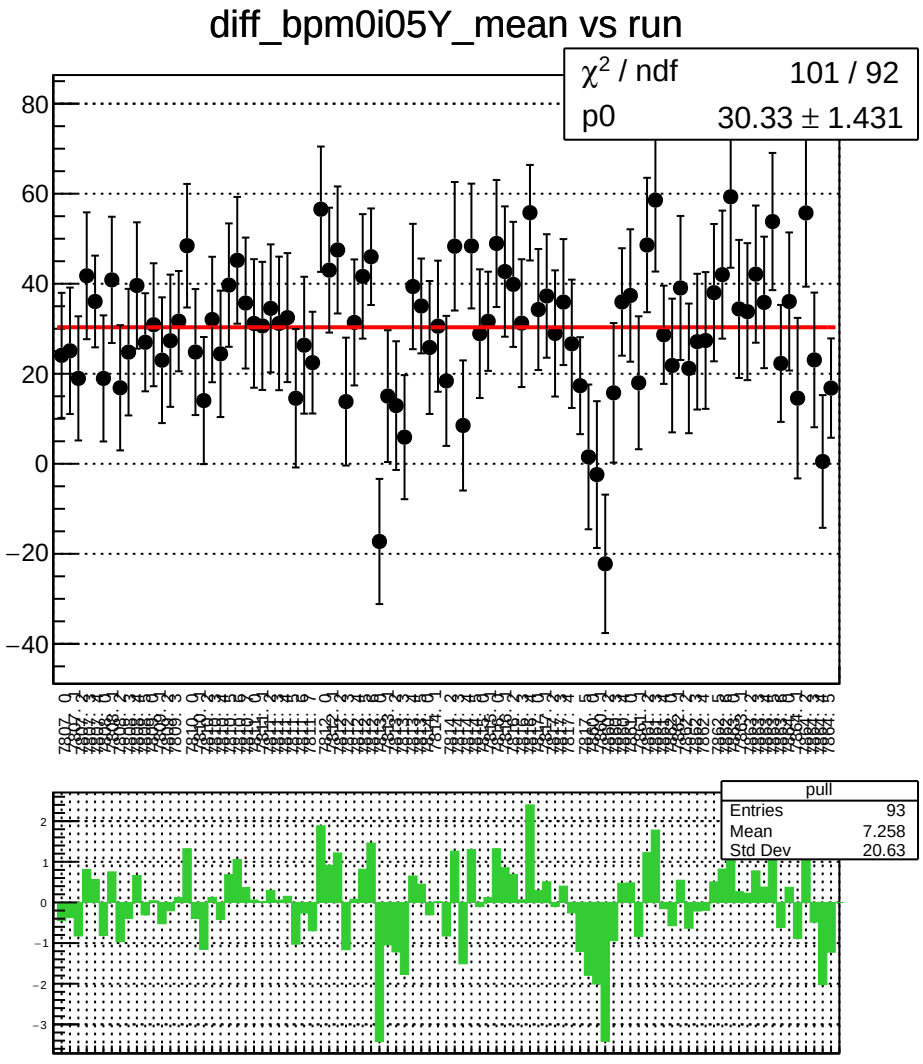

pull1D
Entries 93
Mean 0.01529
Std Dev 1.224

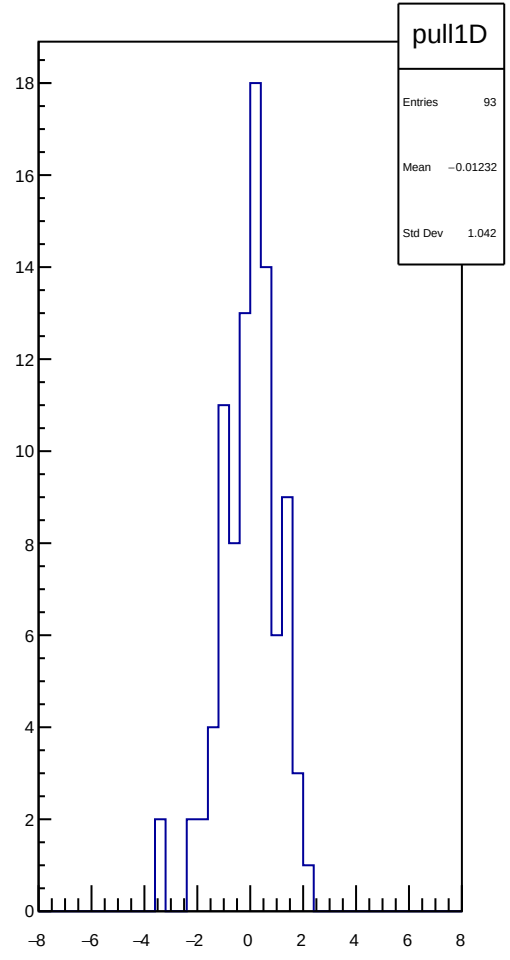

diff_bpm0i02aY_rms vs run
χ² / ndf 3207 / 92
p0 1685 ± 1.24
1850
1800
1750
1700
1650
1600
1550
1500

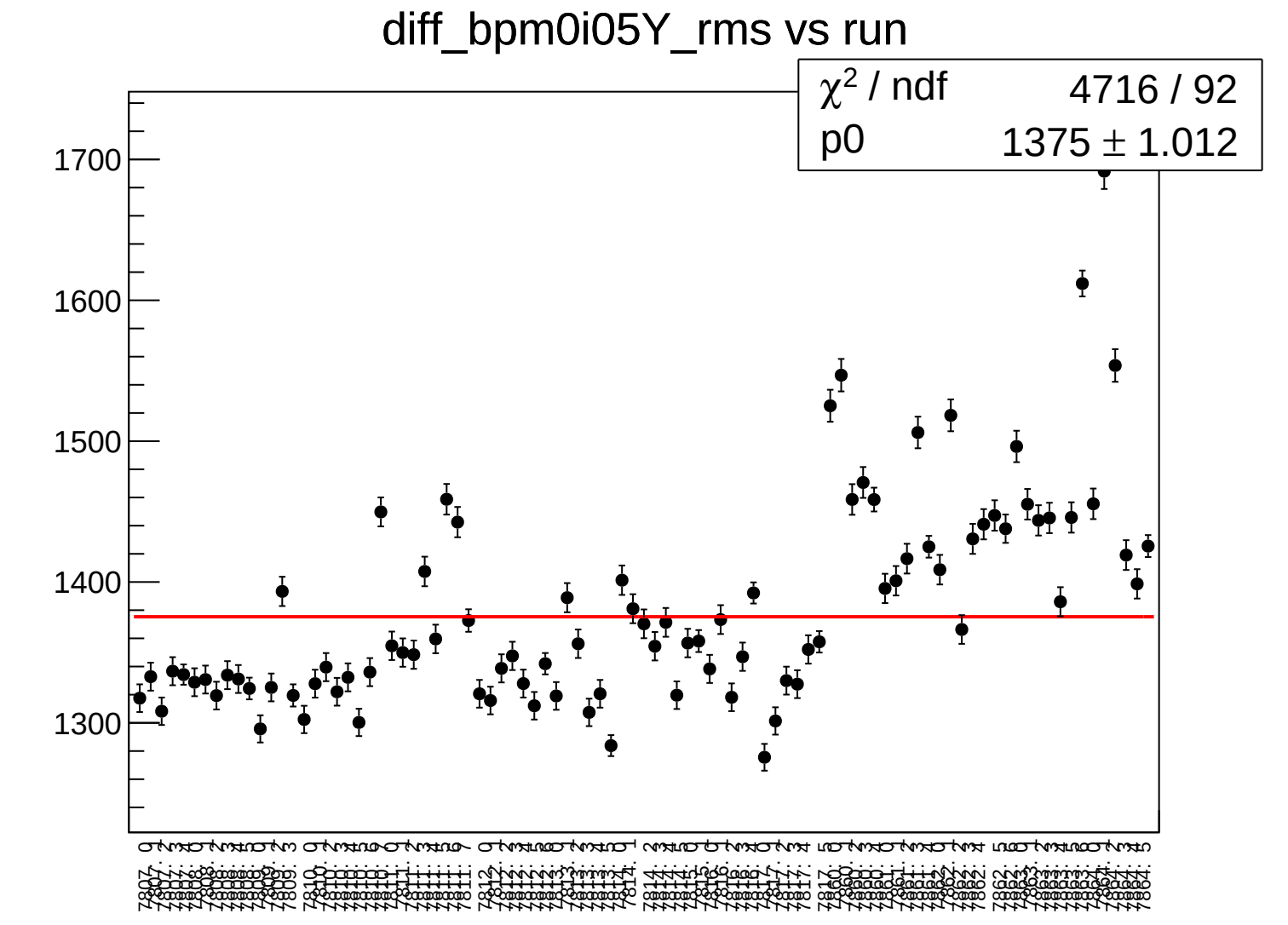

diff_bpm0i05X_mean vs run
χ² / ndf 128.9 / 92
p0 −24.48 ± 1.808
pull
Entries 93
Mean 633.7
Std Dev 0

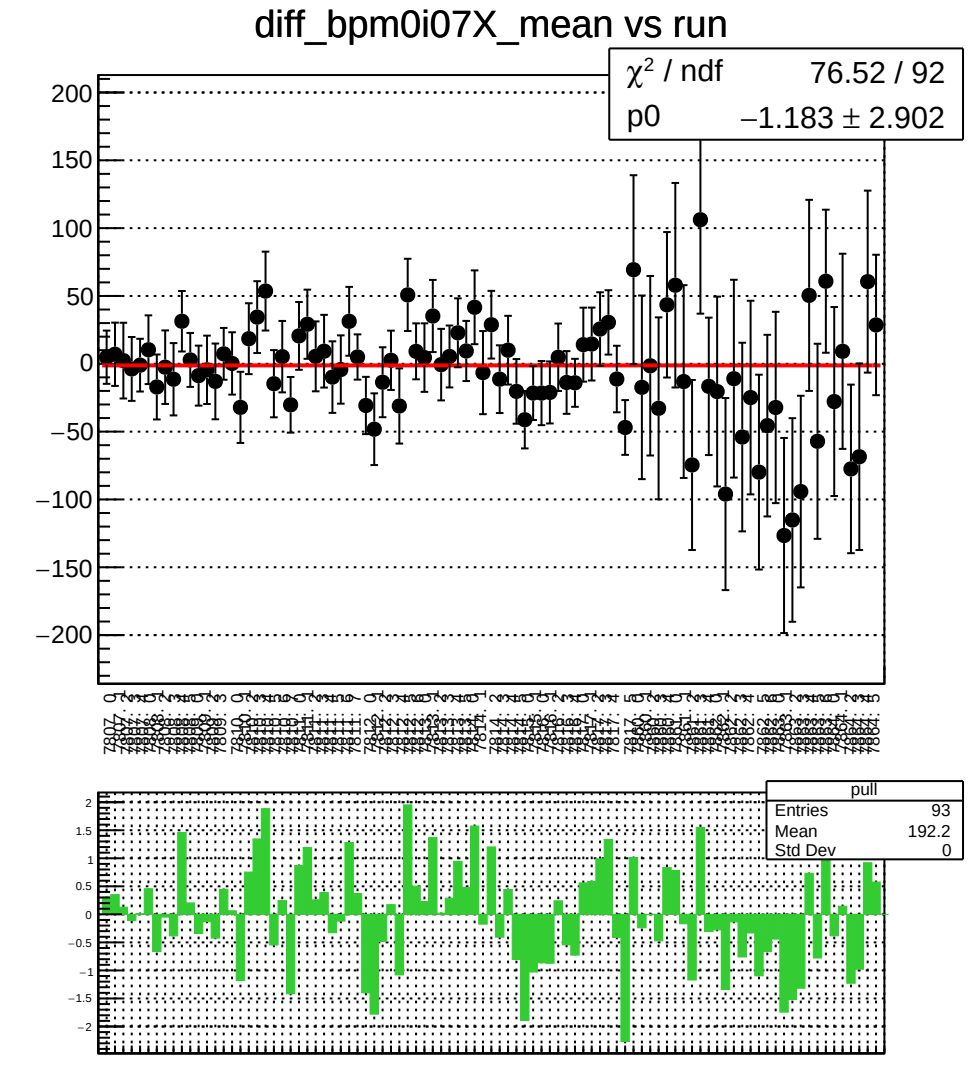

pull1D
Entries 93
Mean 0.01907
Std Dev 1.177

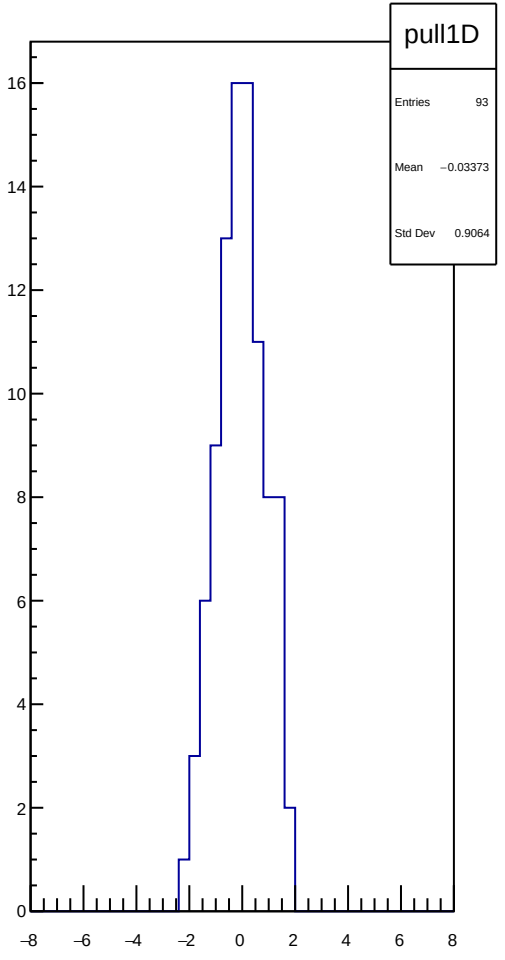

diff_bpm0i05X_rms vs run
χ² / ndf 743 / 92
p0 1739 ± 1.278
1850
1800
1750
1700
1650

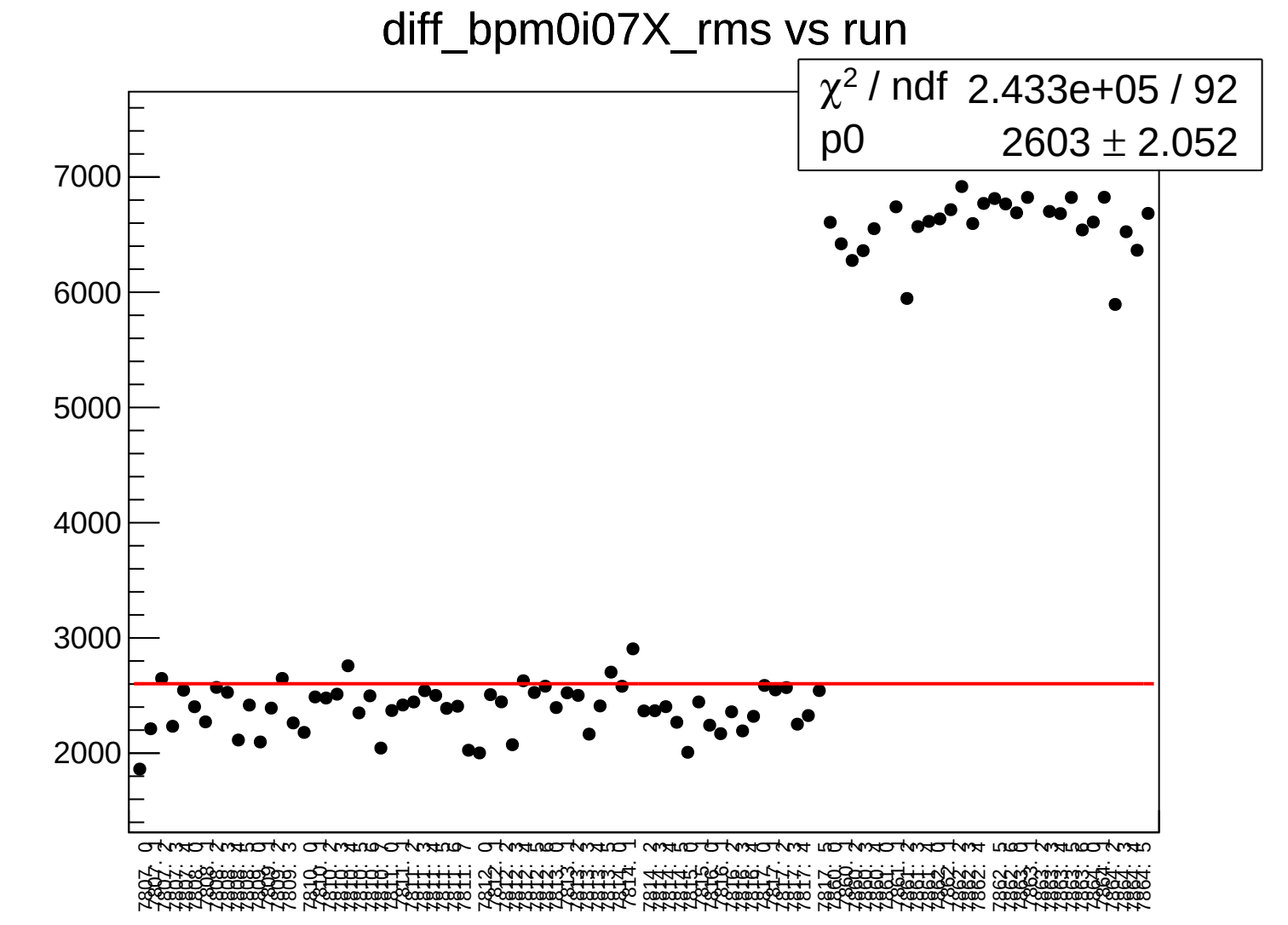

diff_bpm0i05Y_mean vs run
χ² / ndf 101 / 92
p0 30.33 ± 1.431
pull
Entries 93
Mean 7.258
Std Dev 20.63

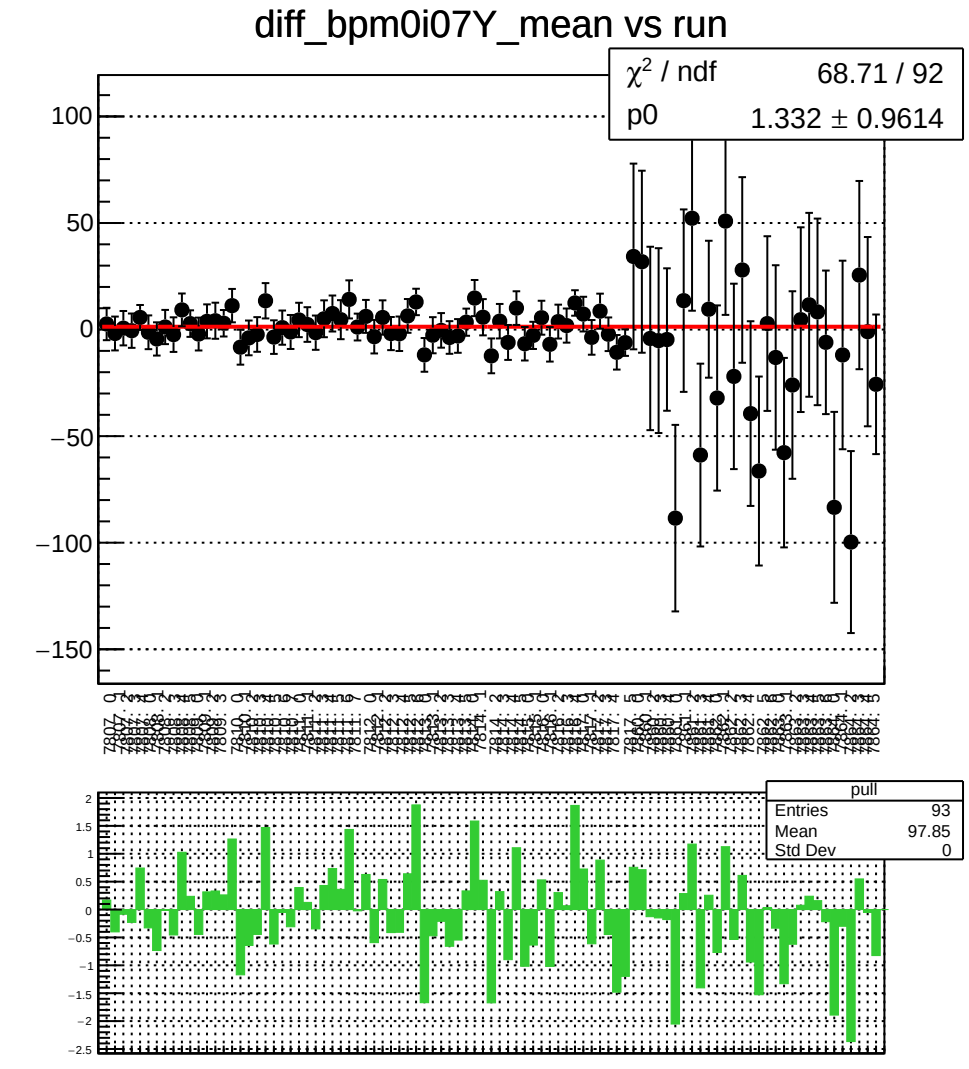

pull1D
Entries 93
Mean −0.01232
Std Dev 1.042

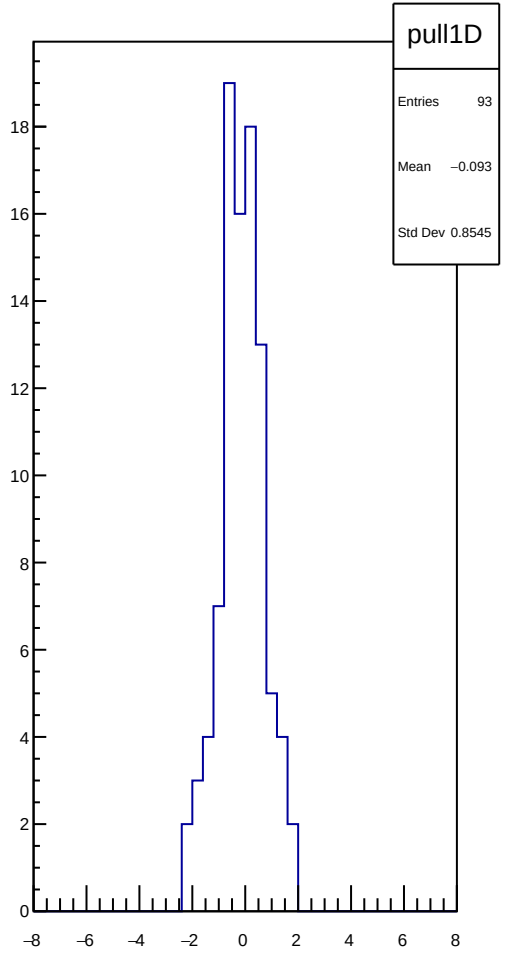

diff_bpm0i05Y_rms vs run
χ² / ndf 4716 / 92
p0 1375 ± 1.012
1700
1600
1500
1400
1300

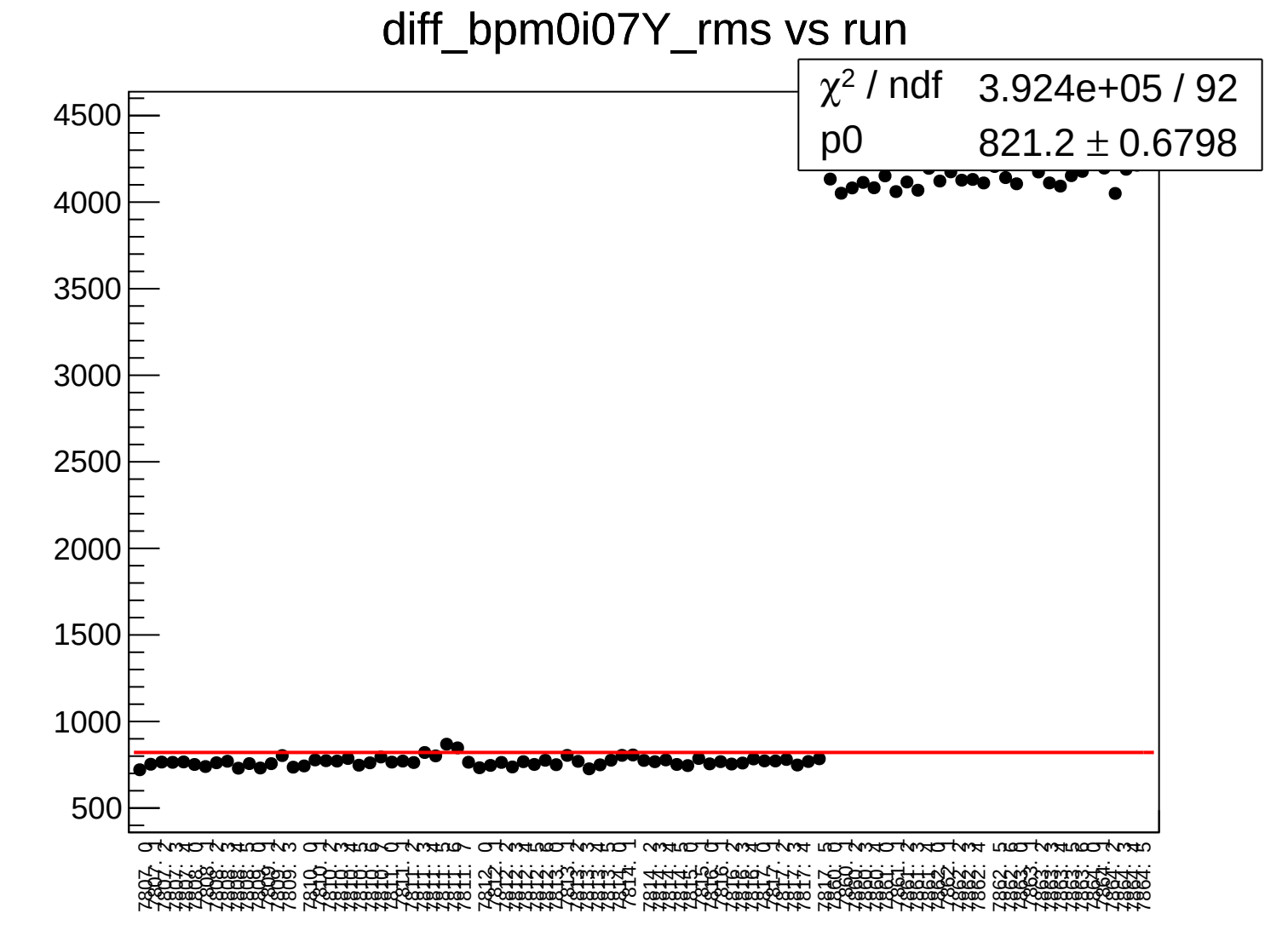

diff_bpm0i07X_mean vs run
χ² / ndf 76.52 / 92
p0 −1.183 ± 2.902
pull
Entries 93
Mean 192.2
Std Dev 0

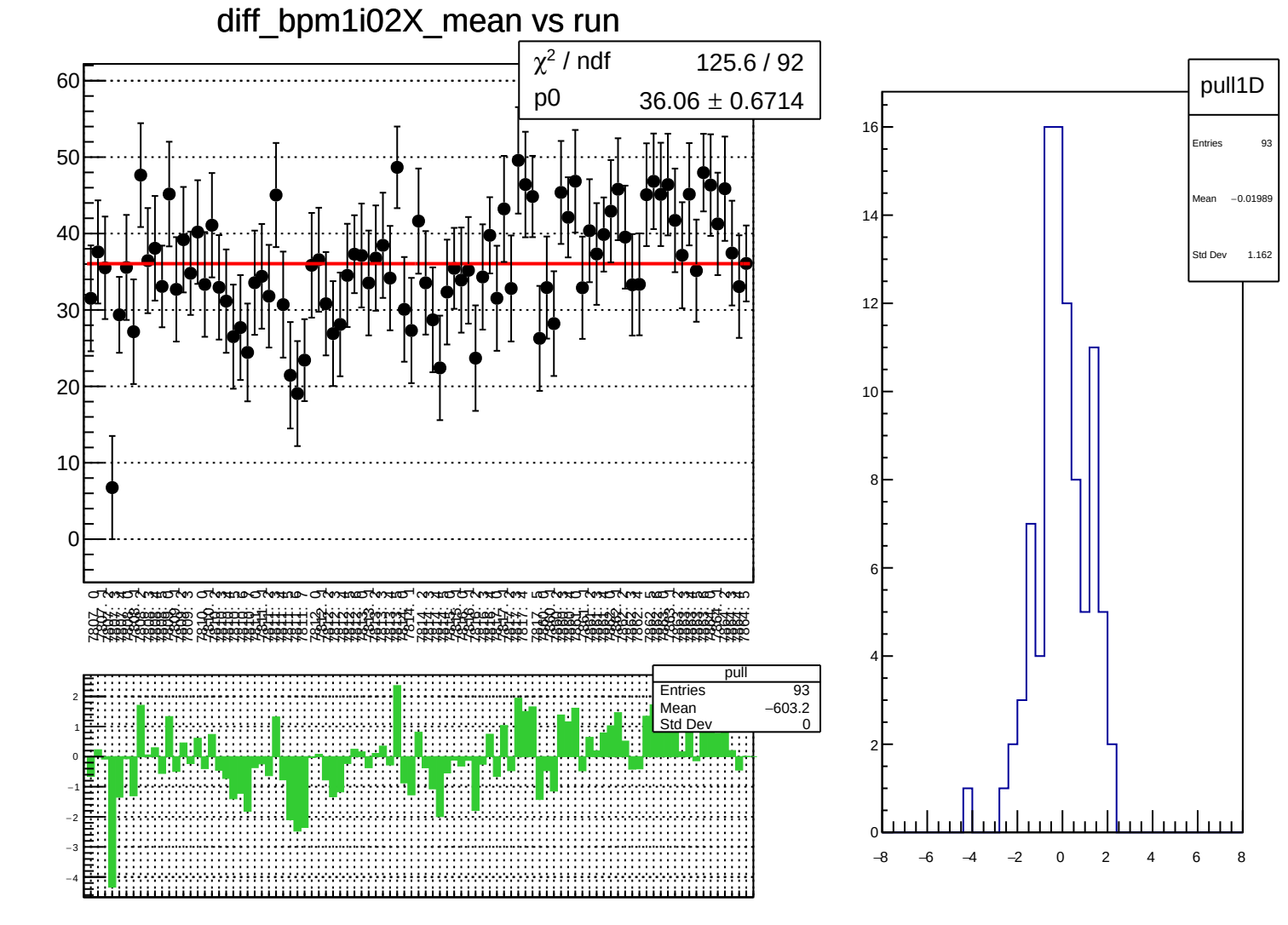

pull1D
Entries 93
Mean −0.03373
Std Dev 0.9064

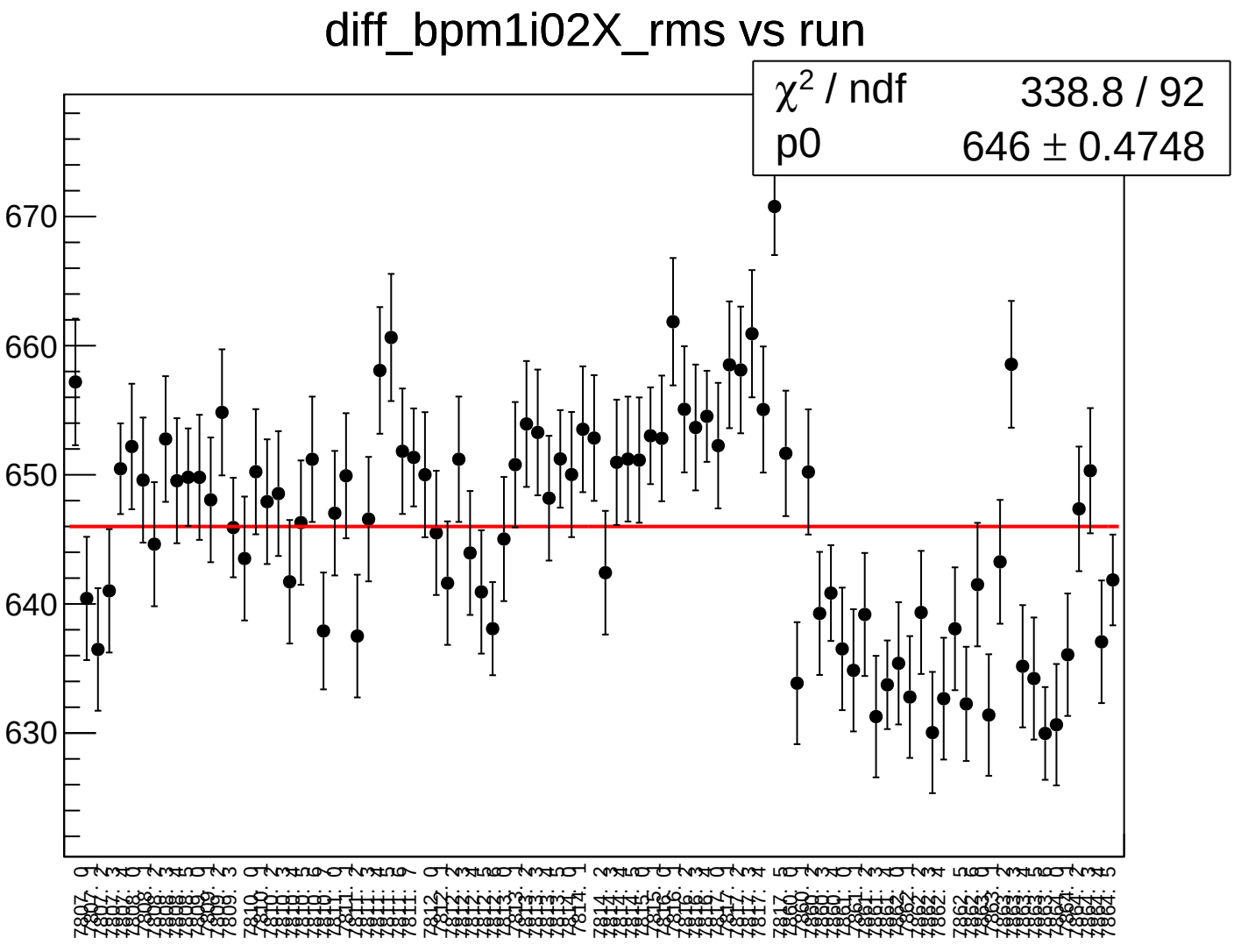

diff_bpm0i07X_rms vs run
χ^2 / ndf 2.433e+05 / 92
p0 2603 ± 2.052
7000
6000
5000
4000
3000
2000

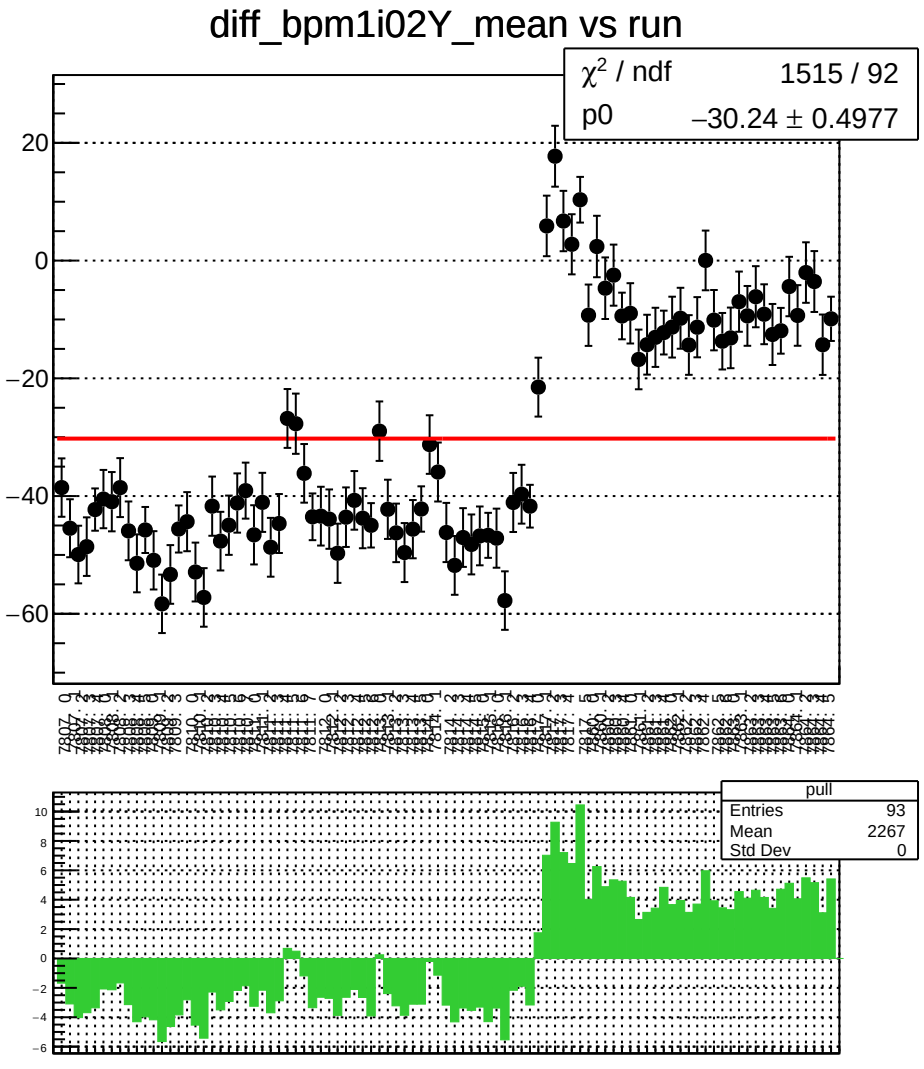

diff_bpm0i07Y_mean vs run
χ² / ndf 68.71 / 92
p0 1.332 ± 0.9614
pull
Entries 93
Mean 97.85
Std Dev 0

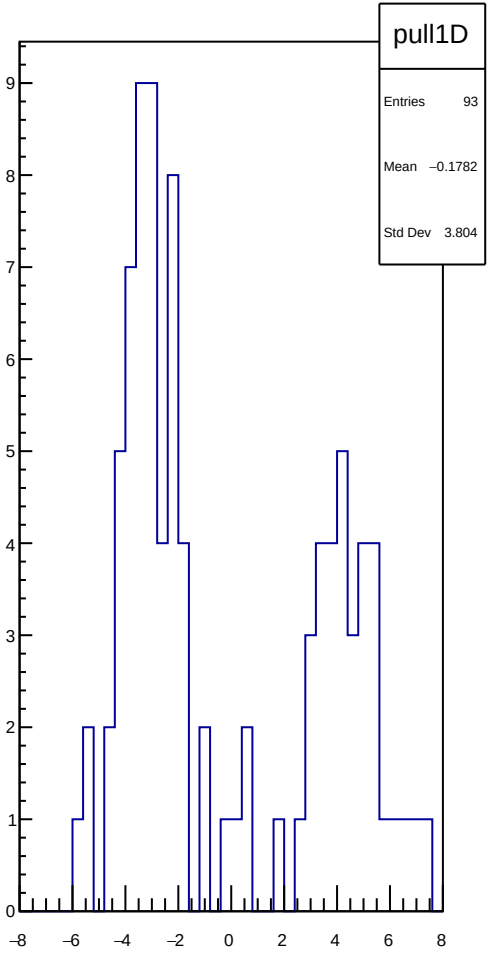

pull1D
Entries 93
Mean −0.093
Std Dev 0.8545

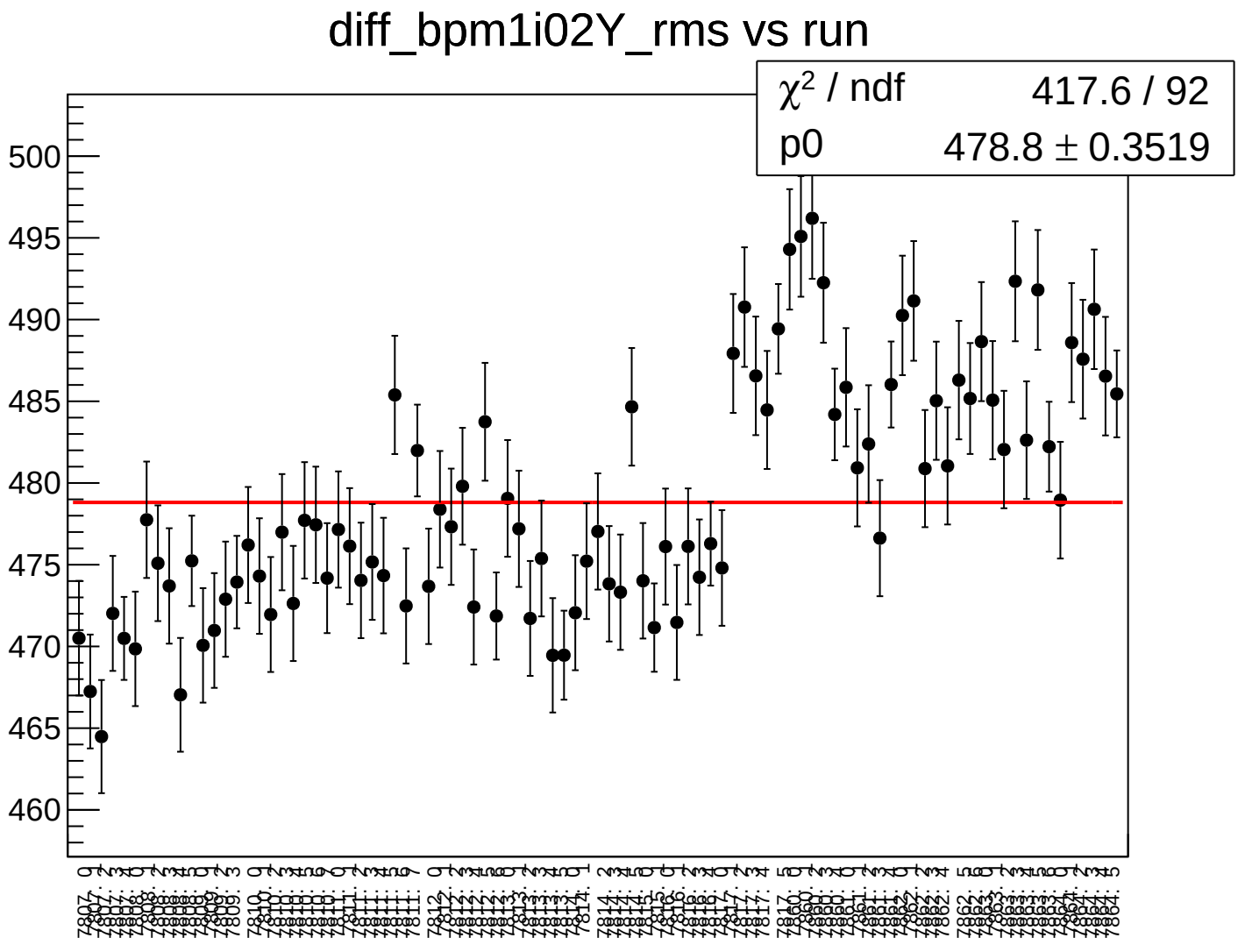

diff_bpm0i07Y_rms vs run
χ² / ndf 3.924e+05 / 92
p0 821.2 ± 0.6798
4500
4000
3500
3000
2500
2000
1500
1000
500

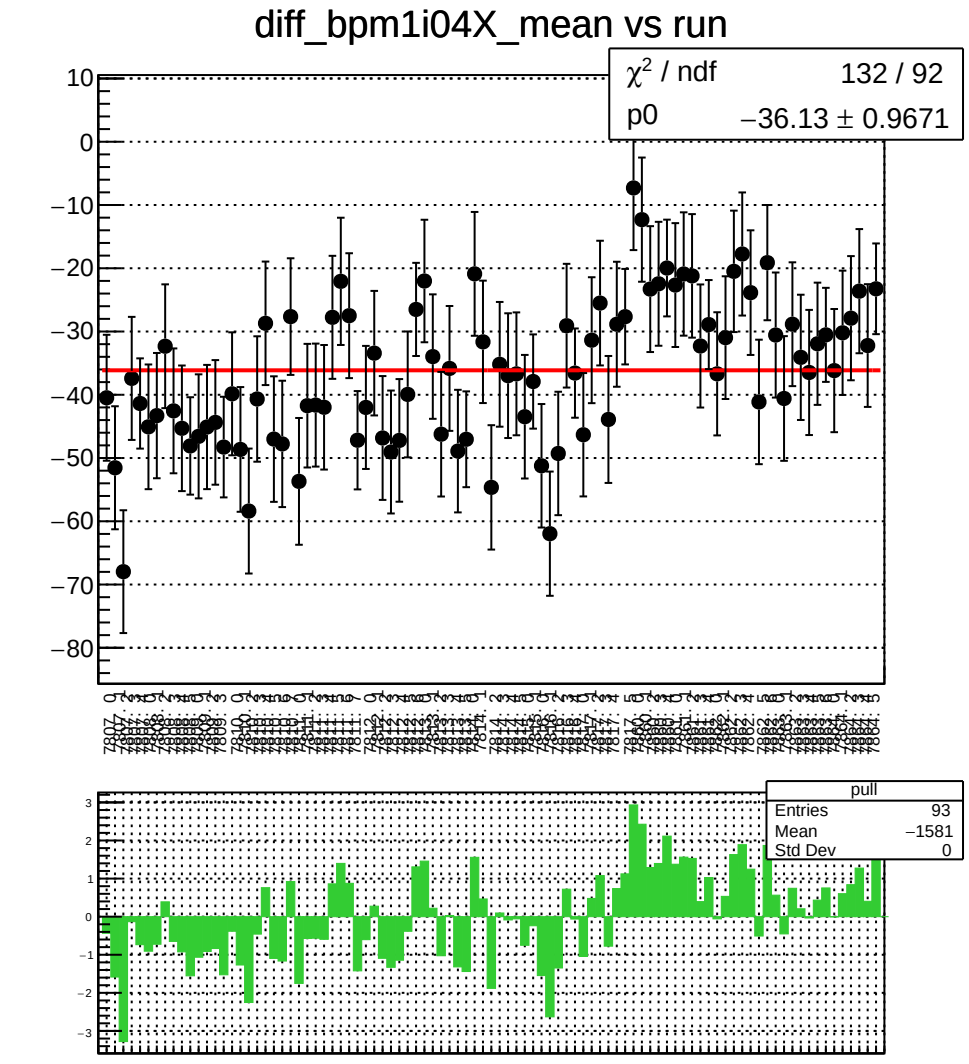

diff_bpm1i02X_mean vs run
χ² / ndf 125.6 / 92
p0 36.06 ± 0.6714
pull
Entries 93
Mean −603.2
Std Dev 0
pull1D
Entries 93
Mean −0.01989
Std Dev 1.162

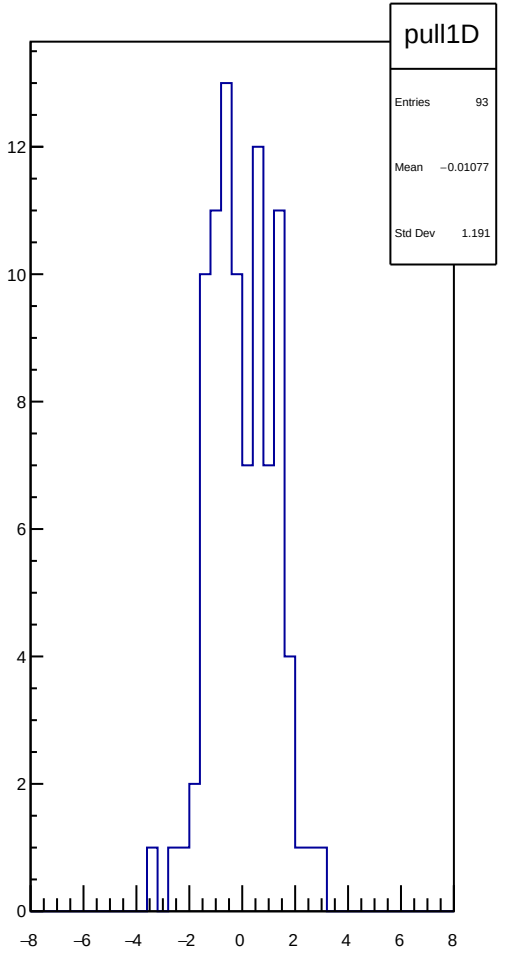

diff_bpm1i02X_rms vs run
χ² / ndf 338.8 / 92
p0 646 ± 0.4748
670
660
650
640
630

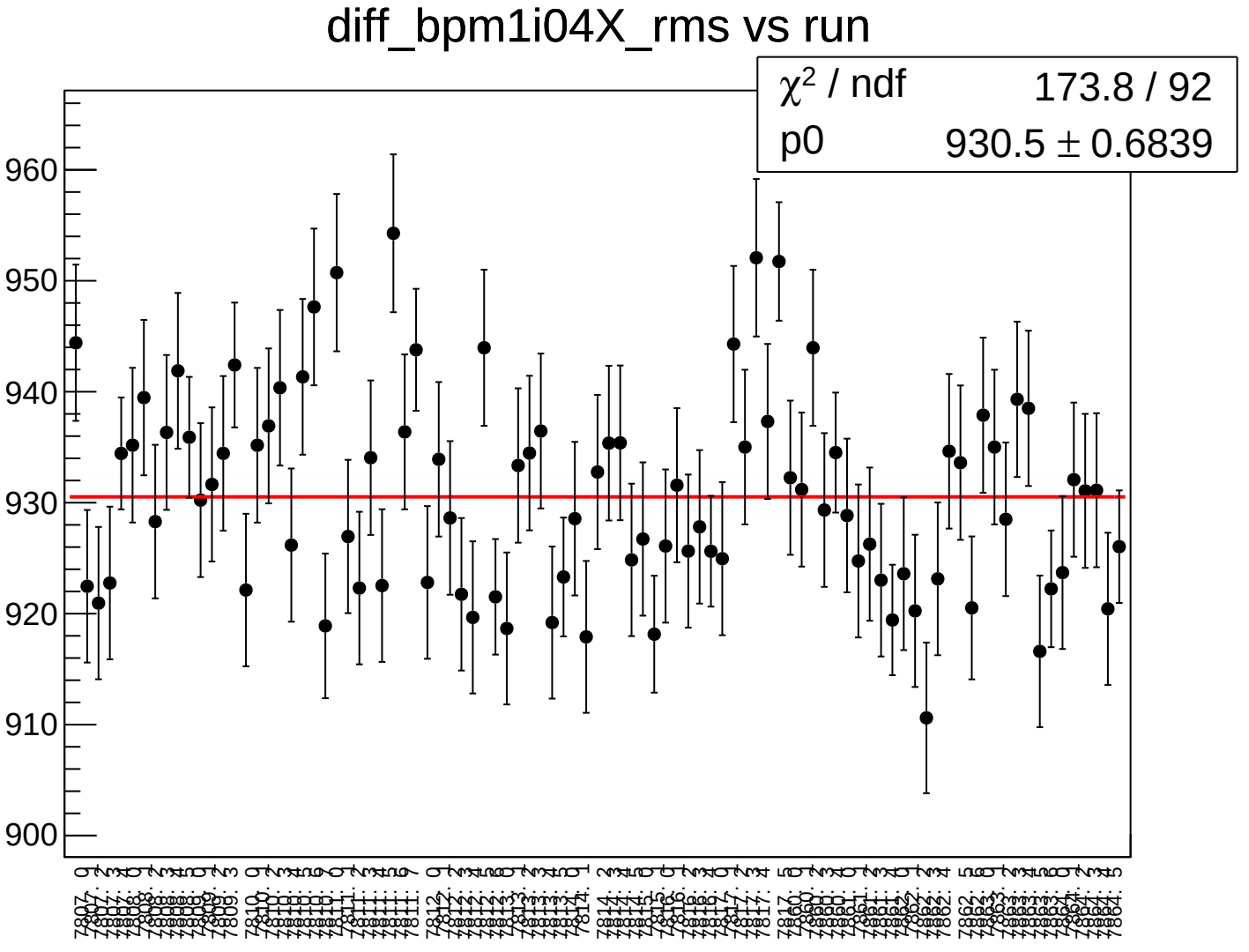

diff_bpm1i02Y_mean vs run
χ² / ndf 1515 / 92
p0 −30.24 ± 0.4977
pull
Entries 93
Mean 2267
Std Dev 0

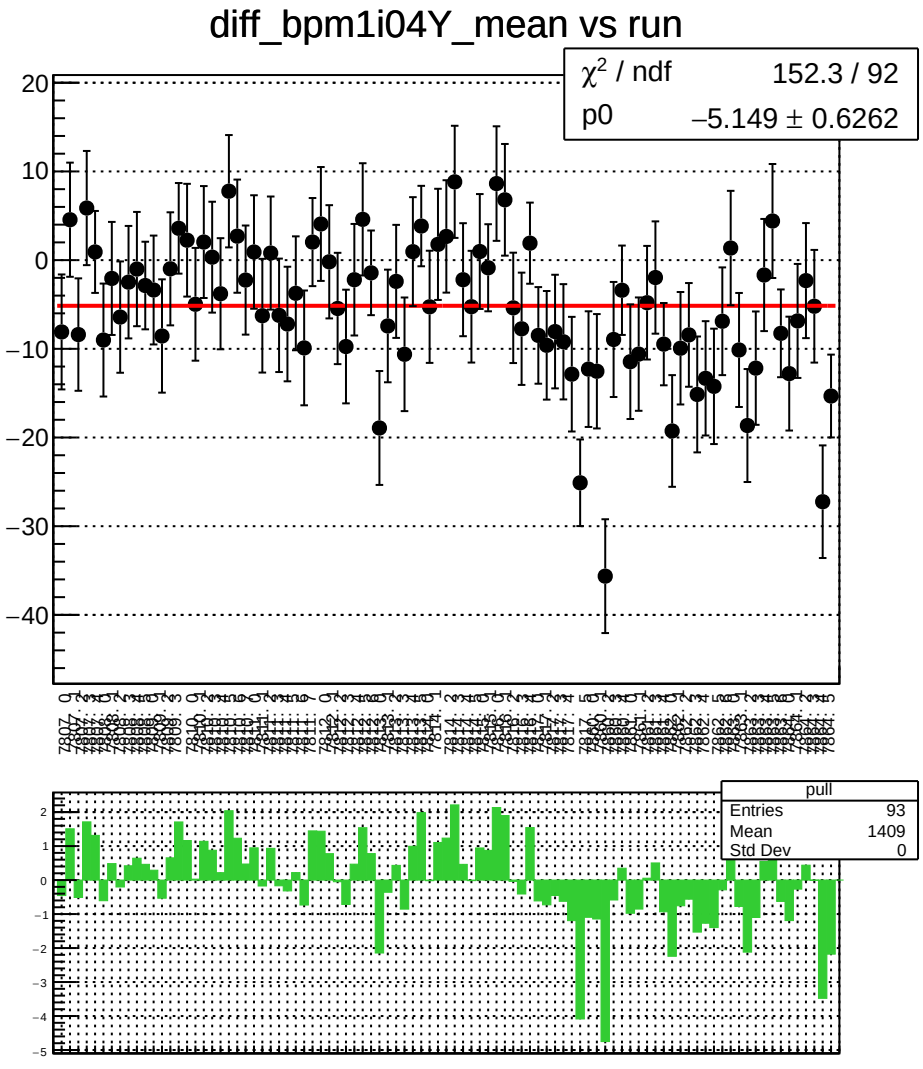

pull1D
Entries 93
Mean −0.1782
Std Dev 3.804

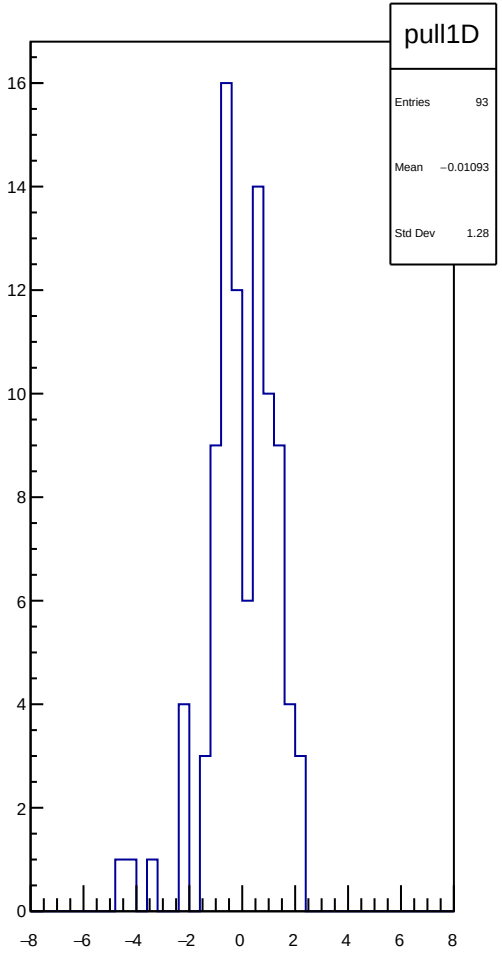

diff_bpm1i02Y_rms vs run
χ² / ndf 417.6 / 92
p0 478.8 ± 0.3519
500
495
490
485
480
475
470
465
460

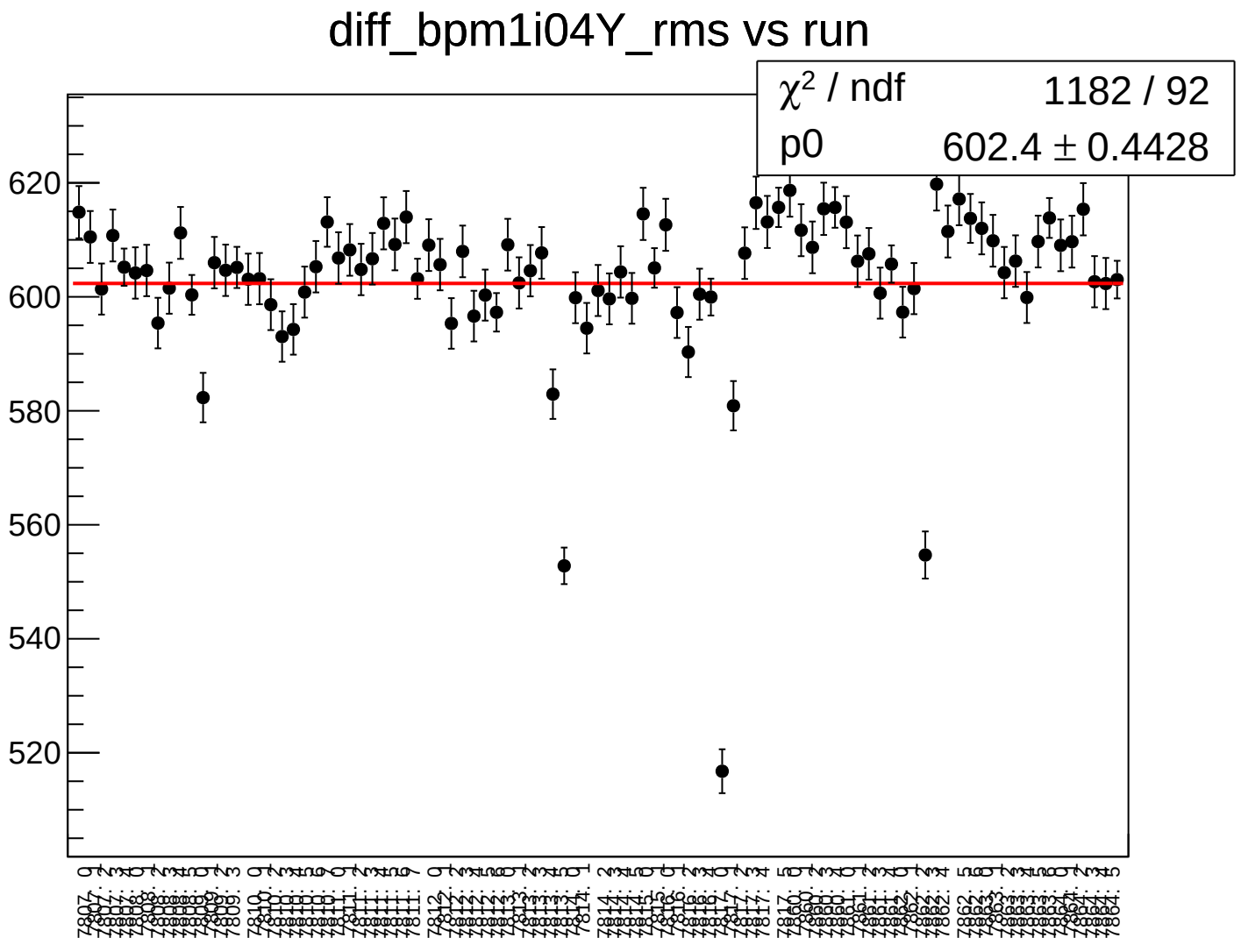

diff_bpm1i04X_mean vs run
χ² / ndf 132 / 92
p0 −36.13 ± 0.9671
pull
Entries 93
Mean −1581
Std Dev 0

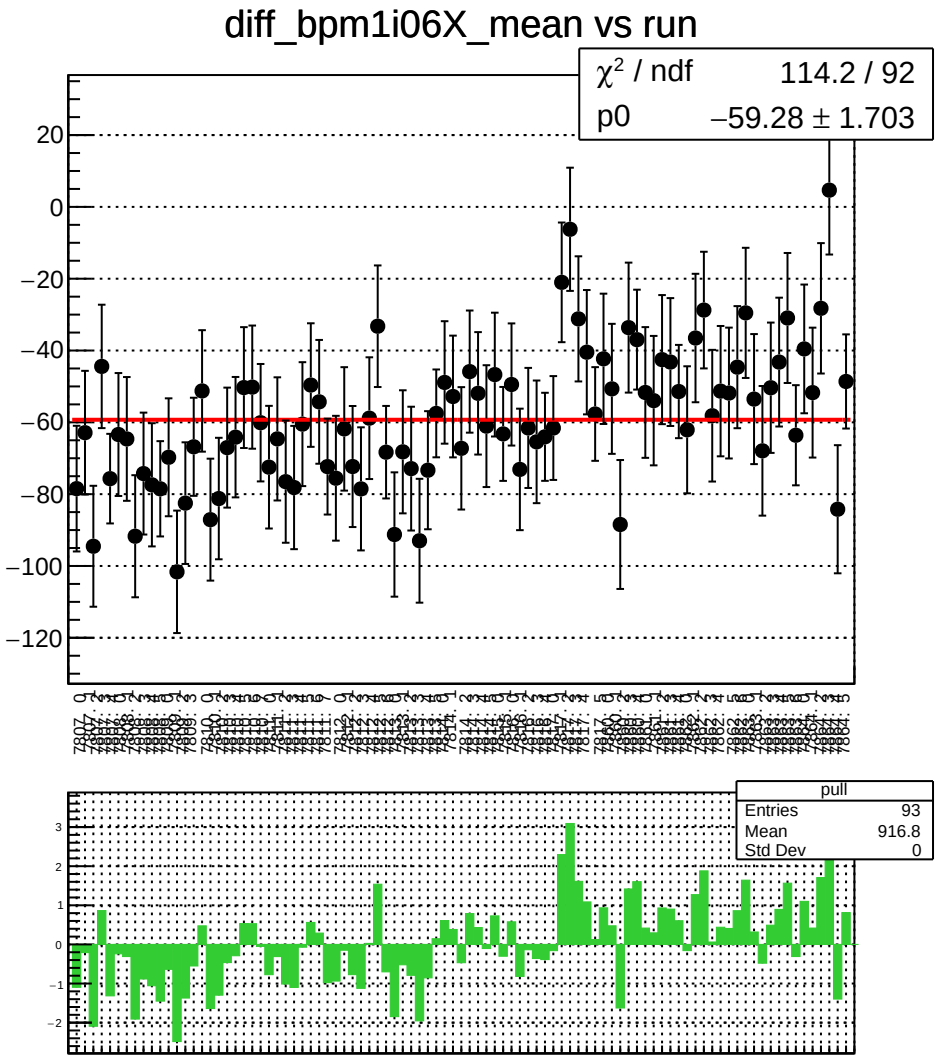

pull1D
Entries 93
Mean −0.01077
Std Dev 1.191

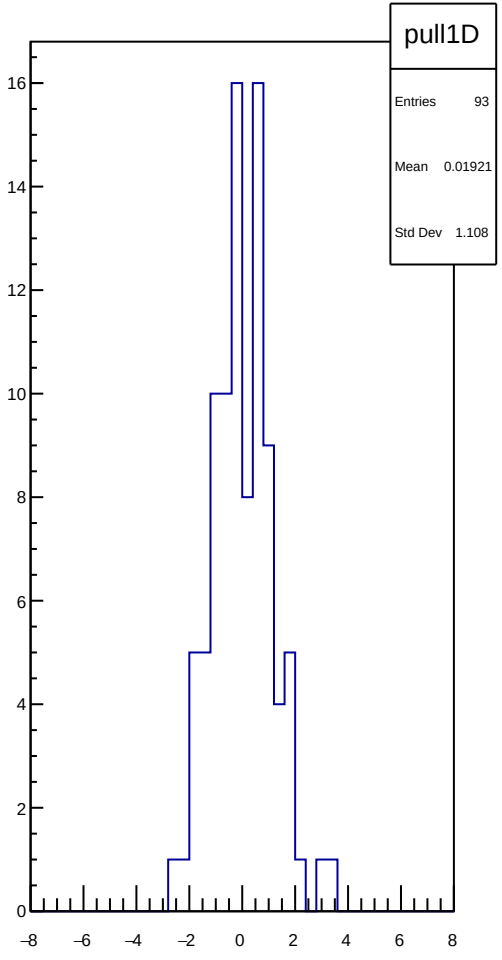

diff_bpm1i04X_rms vs run
χ^2 / ndf 173.8 / 92
p0 930.5 ± 0.6839
960
950
940
930
920
910
900

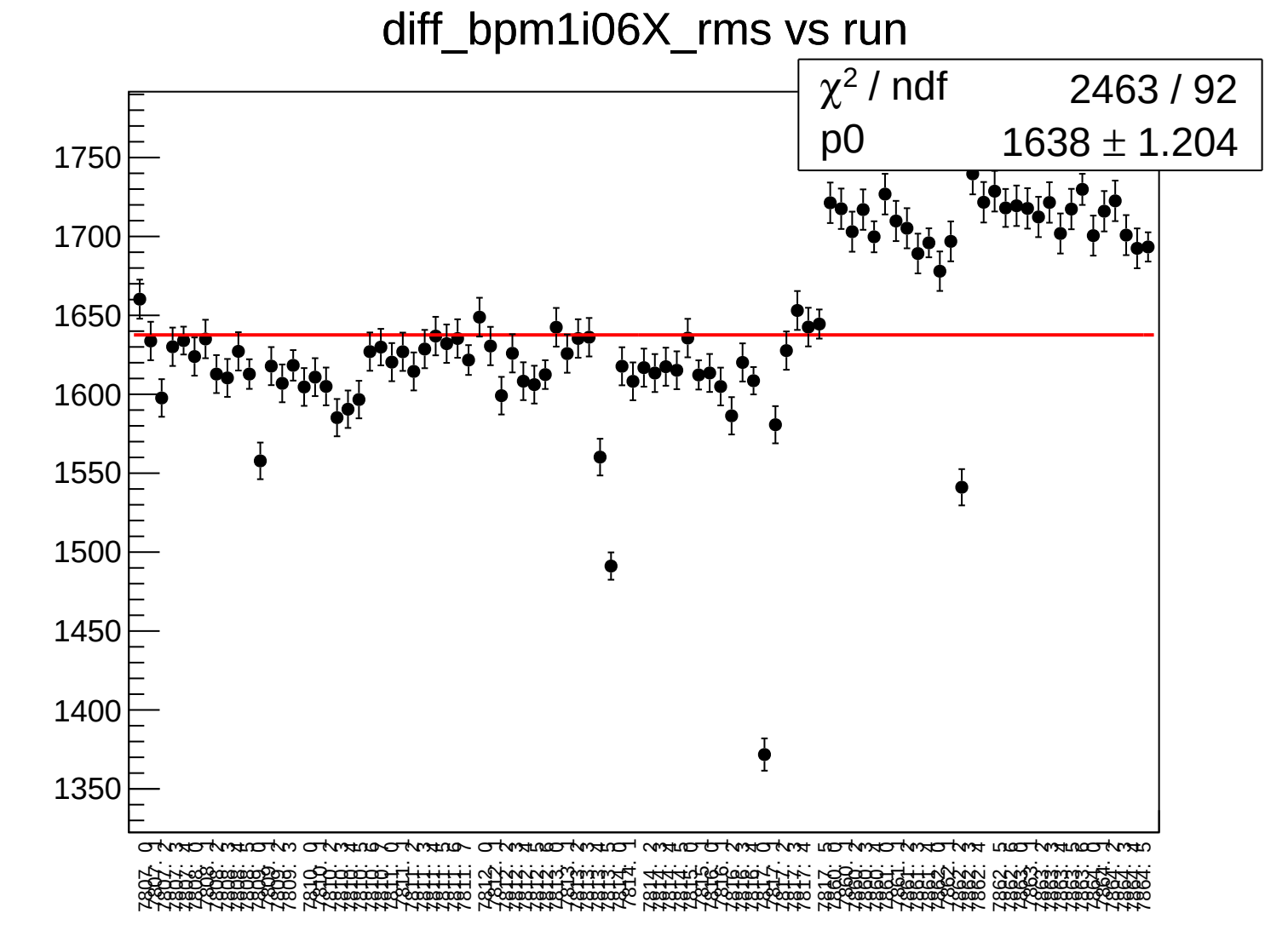

diff_bpm1i04Y_mean vs run
χ² / ndf 152.3 / 92
p0 −5.149 ± 0.6262
pull
Entries 93
Mean 1409
Std Dev 0

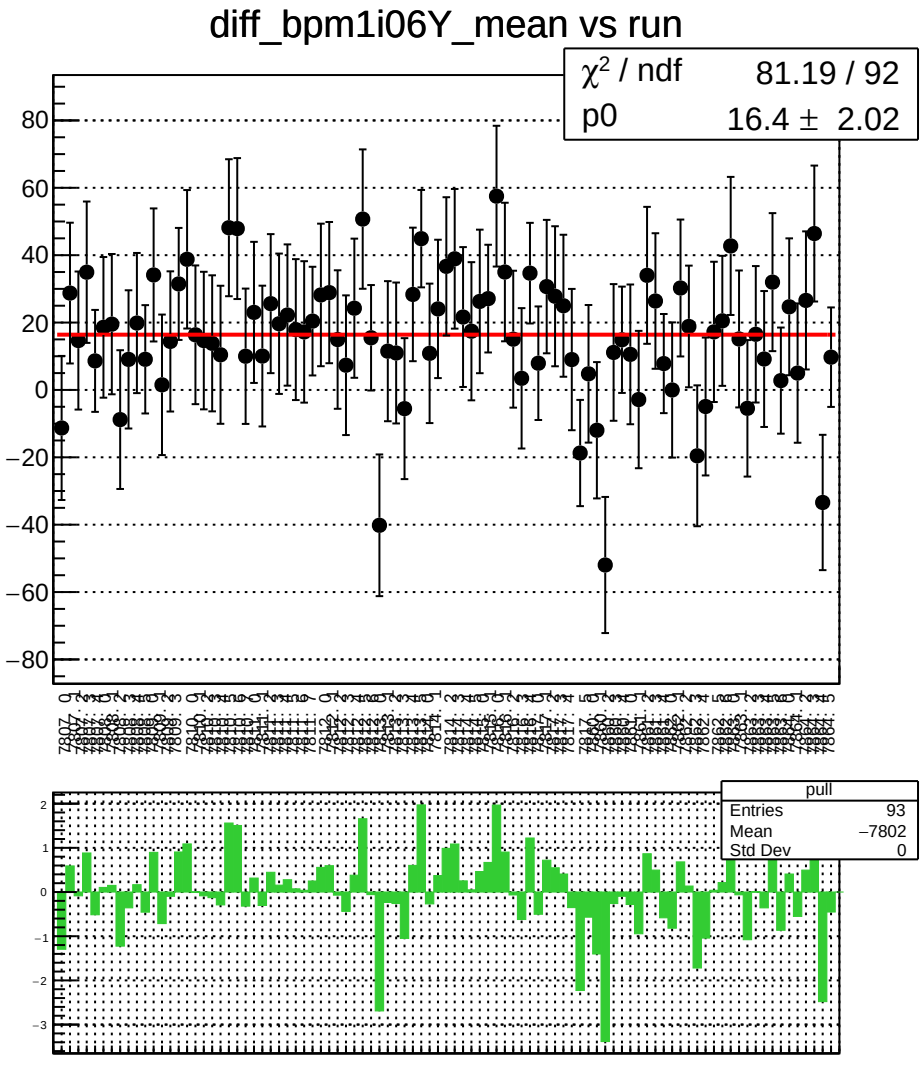

pull1D
Entries 93
Mean −0.01093
Std Dev 1.28

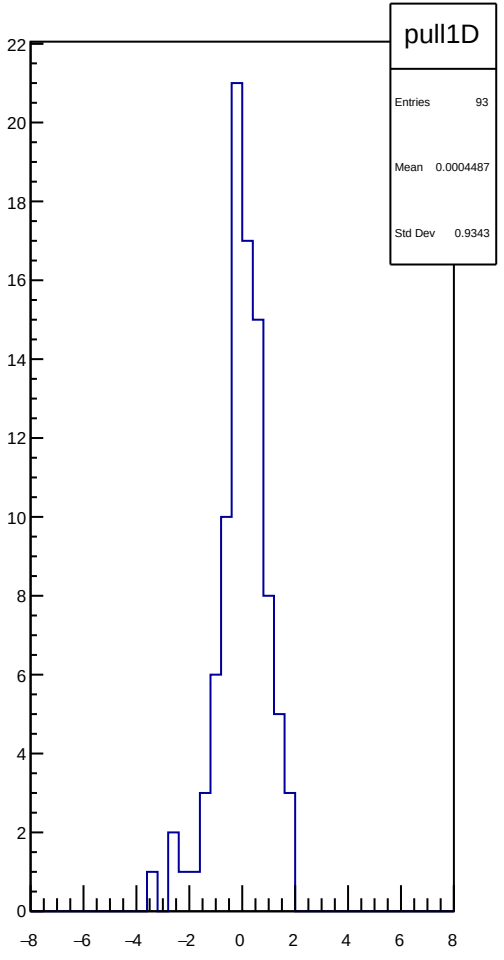

diff_bpm1i04Y_rms vs run
χ² / ndf 1182 / 92
p0 602.4 ± 0.4428
620
600
580
560
540
520

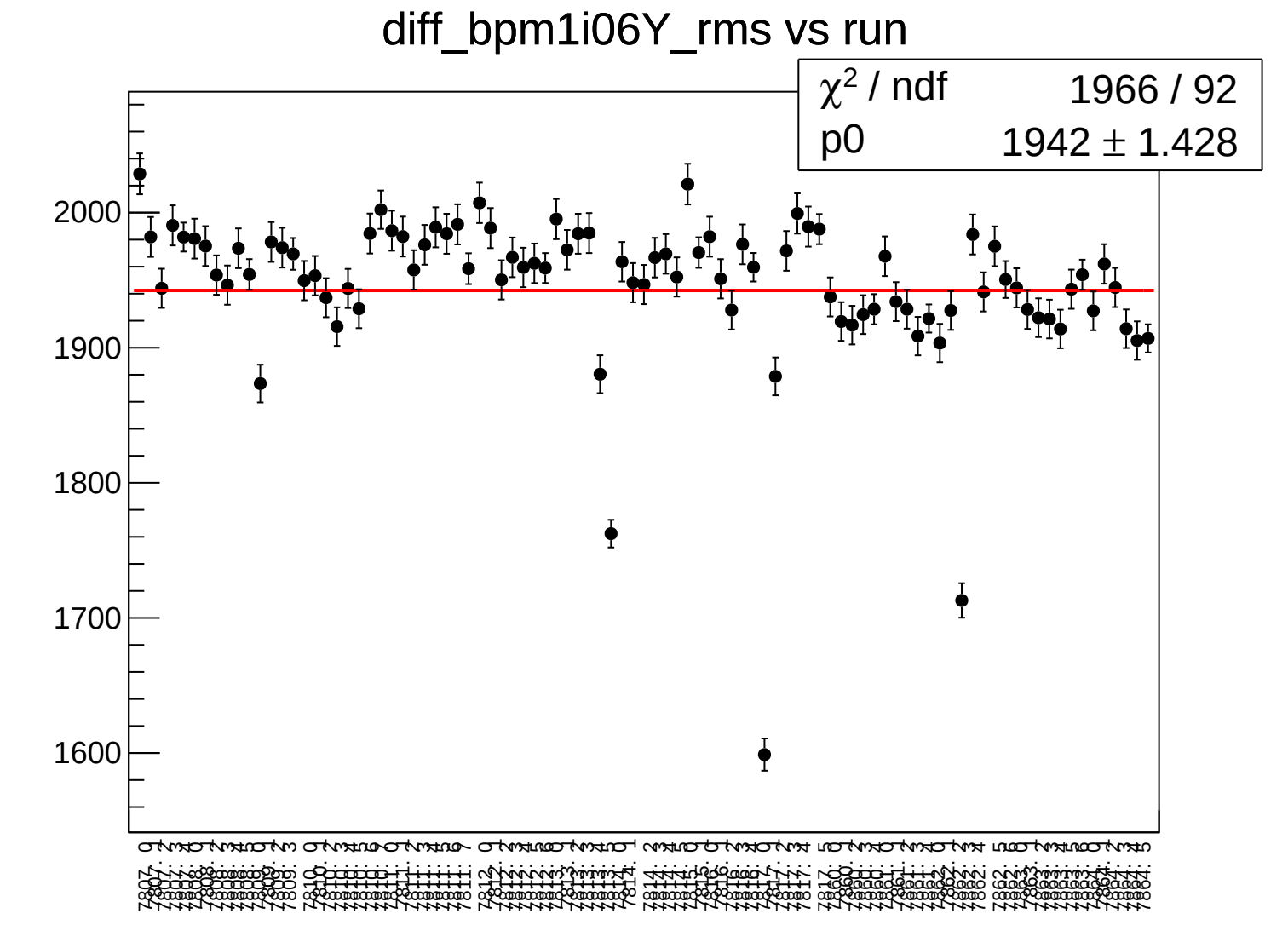

diff_bpm1i06X_mean vs run
χ² / ndf 114.2 / 92
p0 −59.28 ± 1.703
pull
Entries 93
Mean 916.8
Std Dev 0

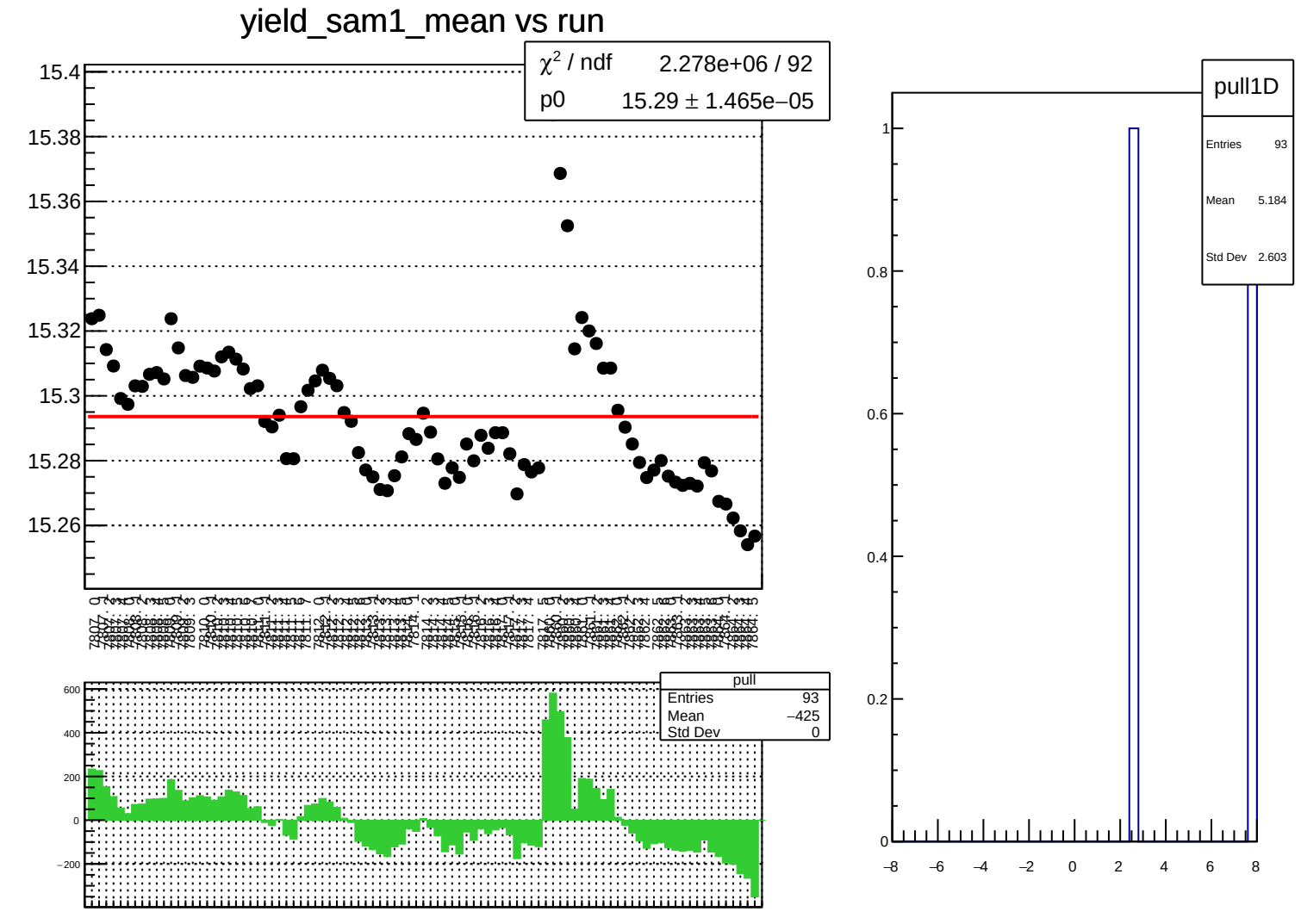

pull1D
Entries 93
Mean 0.01921
Std Dev 1.108

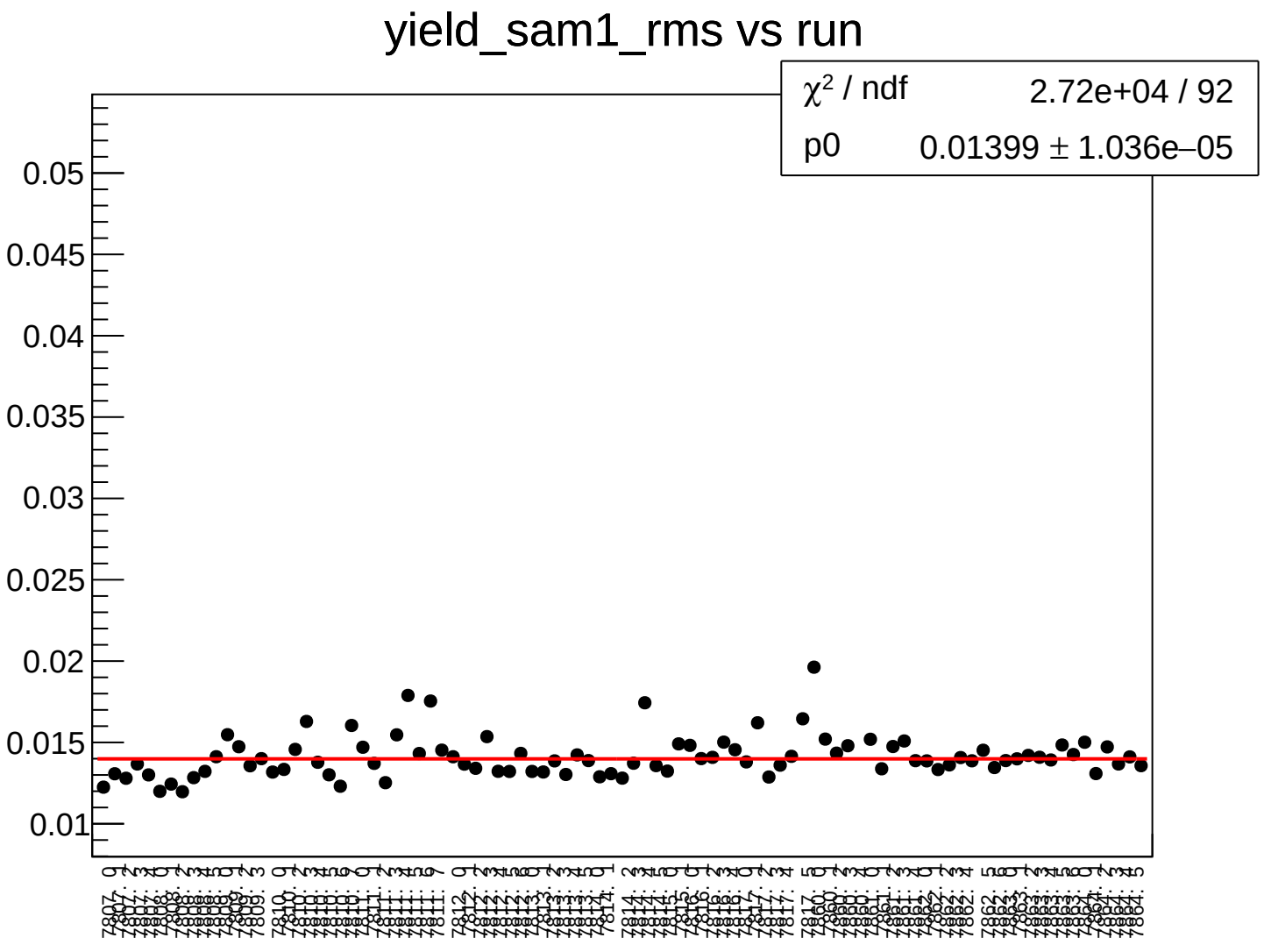

diff_bpm1i06X_rms vs run
χ² / ndf 2463 / 92
p0 1638 ± 1.204
1750
1700
1650
1600
1550
1500
1450
1400
1350

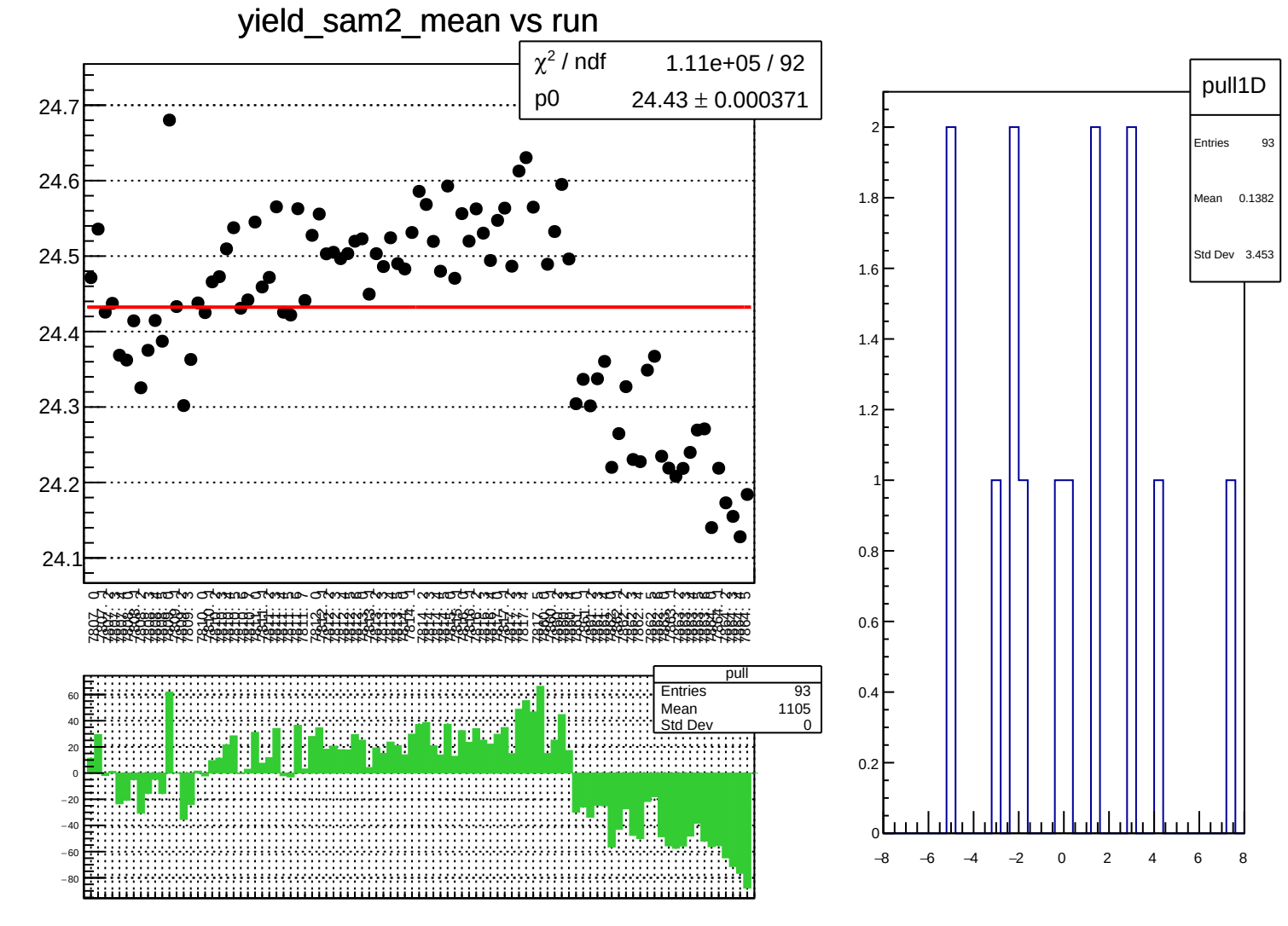

diff_bpm1i06Y_mean vs run
χ² / ndf 81.19 / 92
p0 16.4 ± 2.02
pull
Entries 93
Mean −7802
Std Dev 0

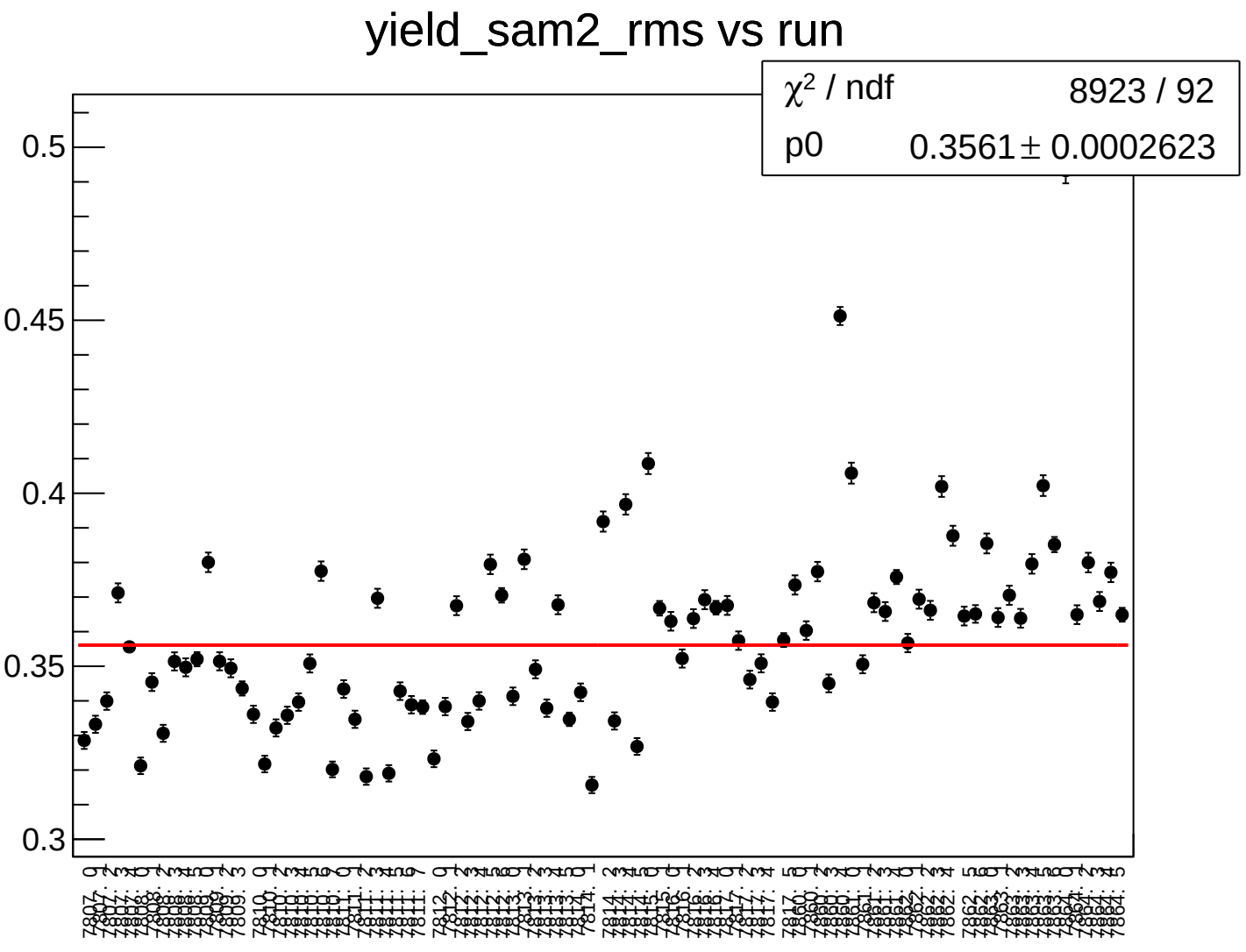

pull1D
Entries 93
Mean 0.0004487
Std Dev 0.9343

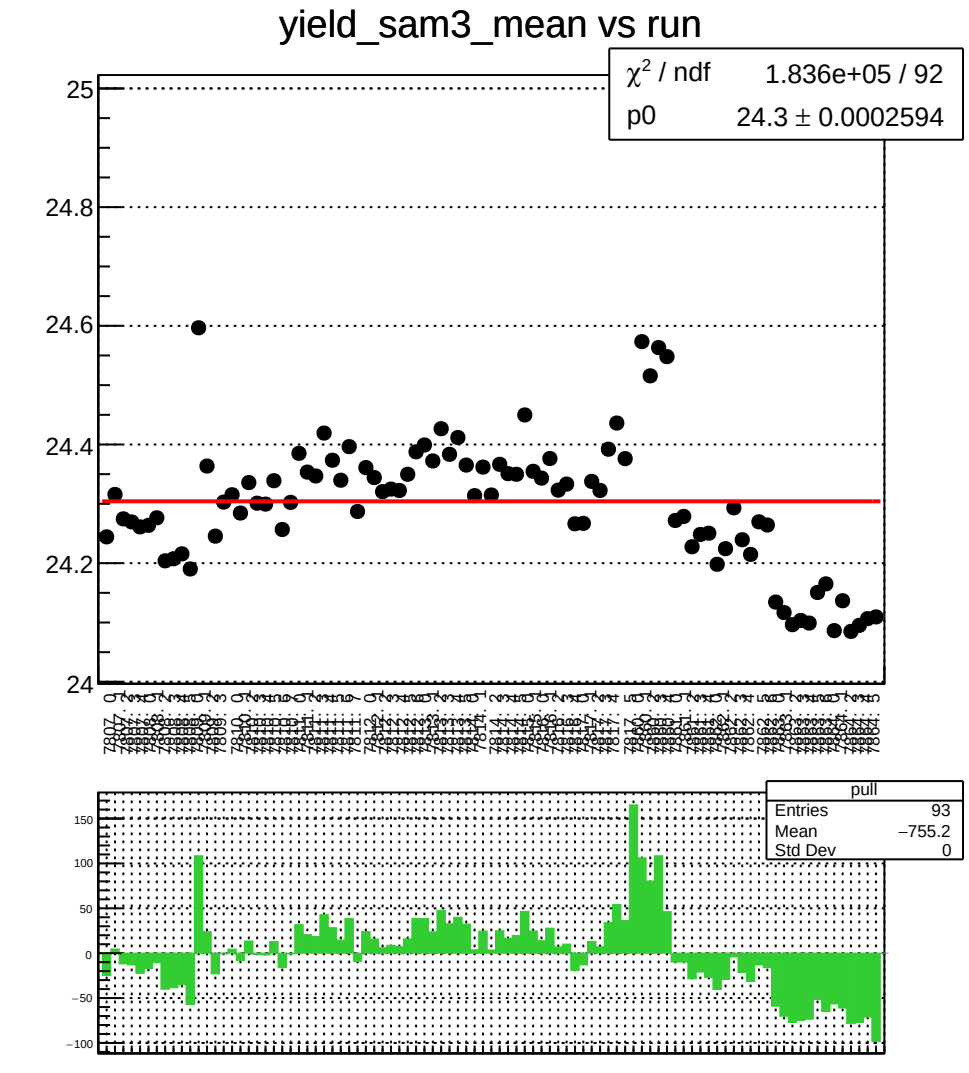

diff_bpm1i06Y_rms vs run
χ² / ndf 1966 / 92
p0 1942 ± 1.428
2000
1900
1800
1700
1600

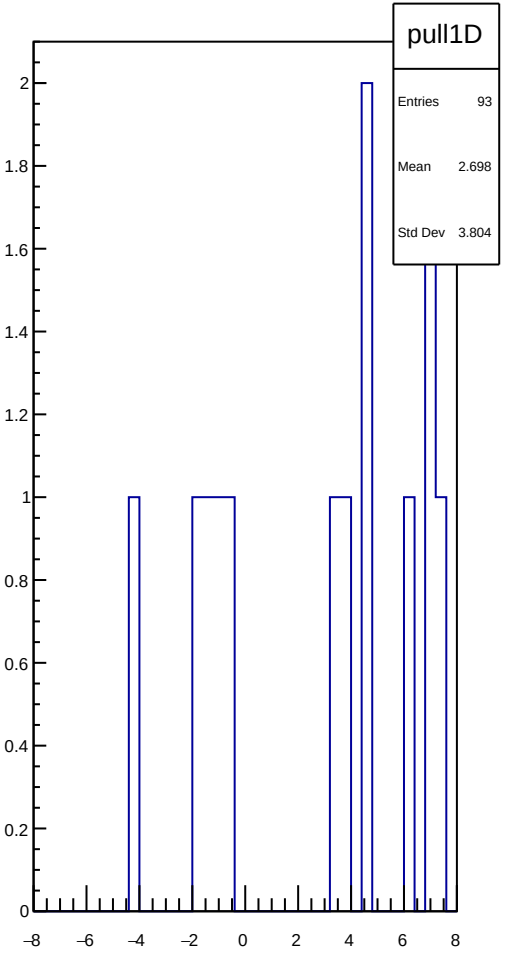

yield_sam1_mean vs run
χ² / ndf 2.278e+06 / 92
p0 15.29 ± 1.465e−05
15.4
15.38
15.36
15.34
15.32
15.3
15.28
15.26
pull
Entries 93
Mean −425
Std Dev 0
600
400
200
0
−200
pull1D
Entries 93
Mean 5.184
Std Dev 2.603
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

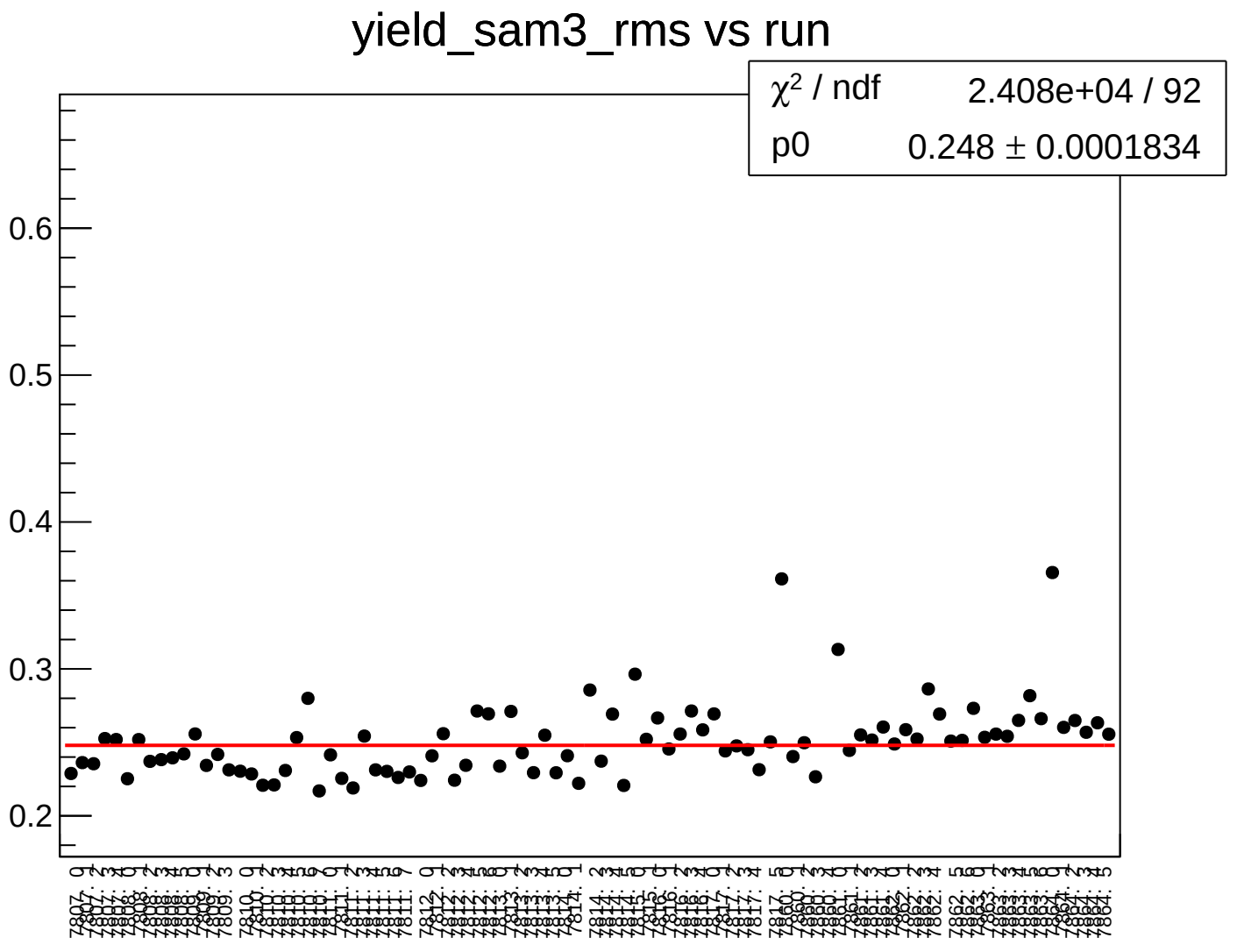

yield_sam1_rms vs run
χ² / ndf 2.72e+04 / 92
p0 0.01399 ± 1.036e−05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

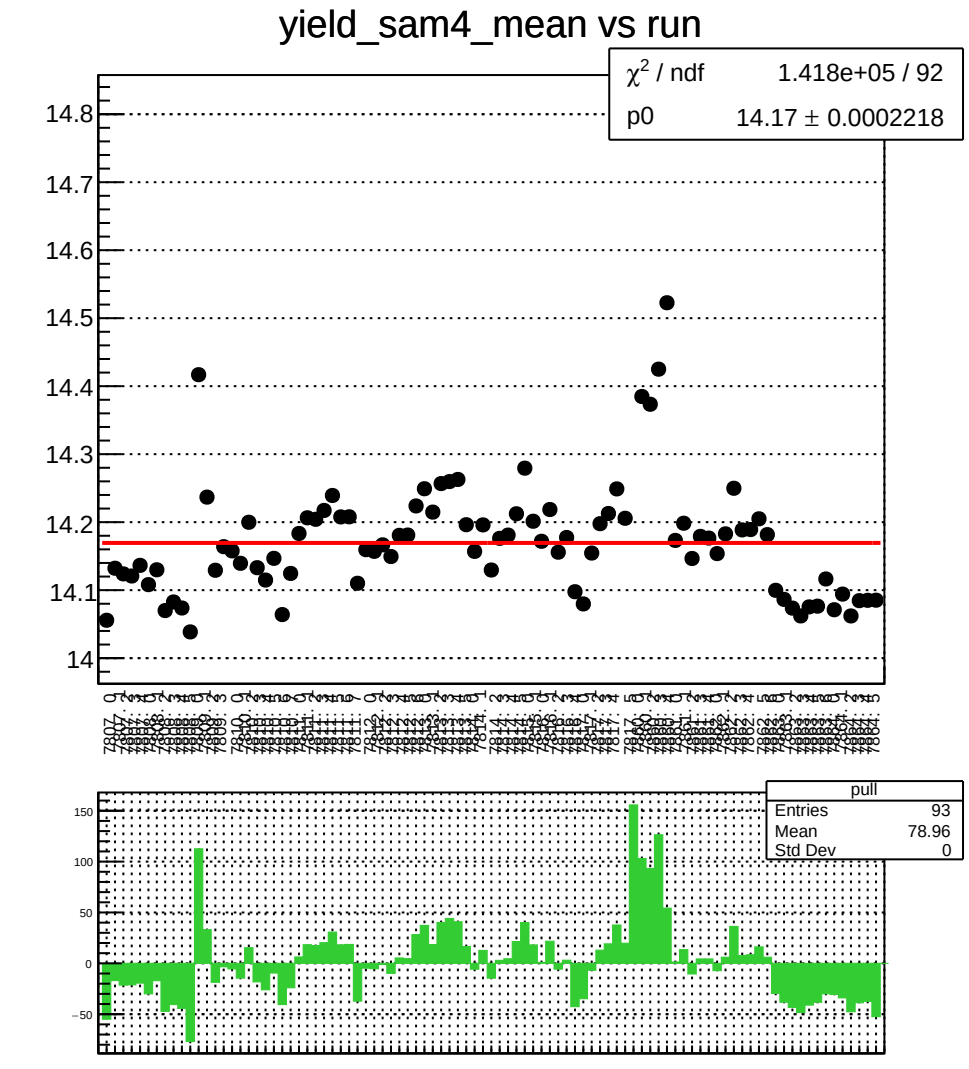

yield_sam2_mean vs run
χ² / ndf 1.11e+05 / 92
p0 24.43 ± 0.000371
24.7
24.6
24.5
24.4
24.3
24.2
24.1
pull
Entries 93
Mean 1105
Std Dev 0
60
40
20
0
−20
−40
−60
−80
pull1D
Entries 93
Mean 0.1382
Std Dev 3.453
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

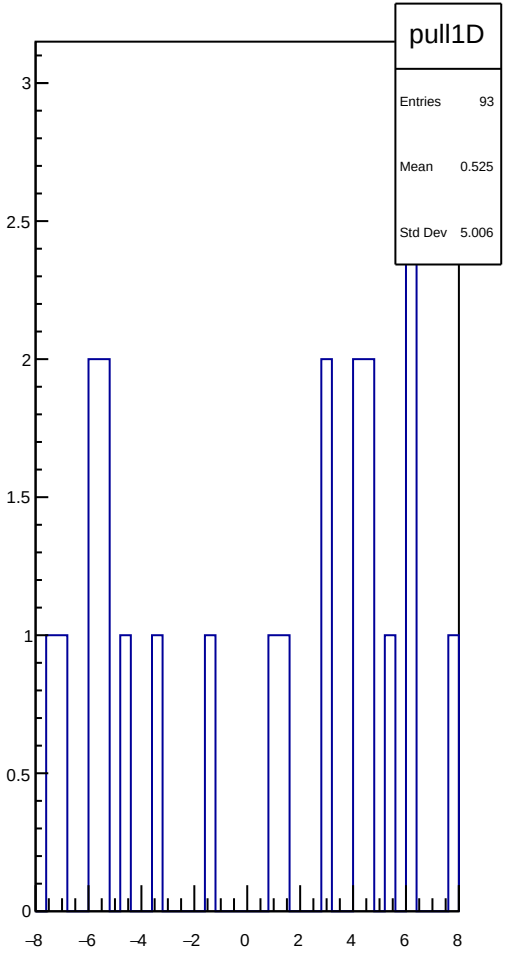

yield_sam2_rms vs run
χ² / ndf 8923 / 92
p0 0.3561 ± 0.0002623
0.5
0.45
0.4
0.35
0.3

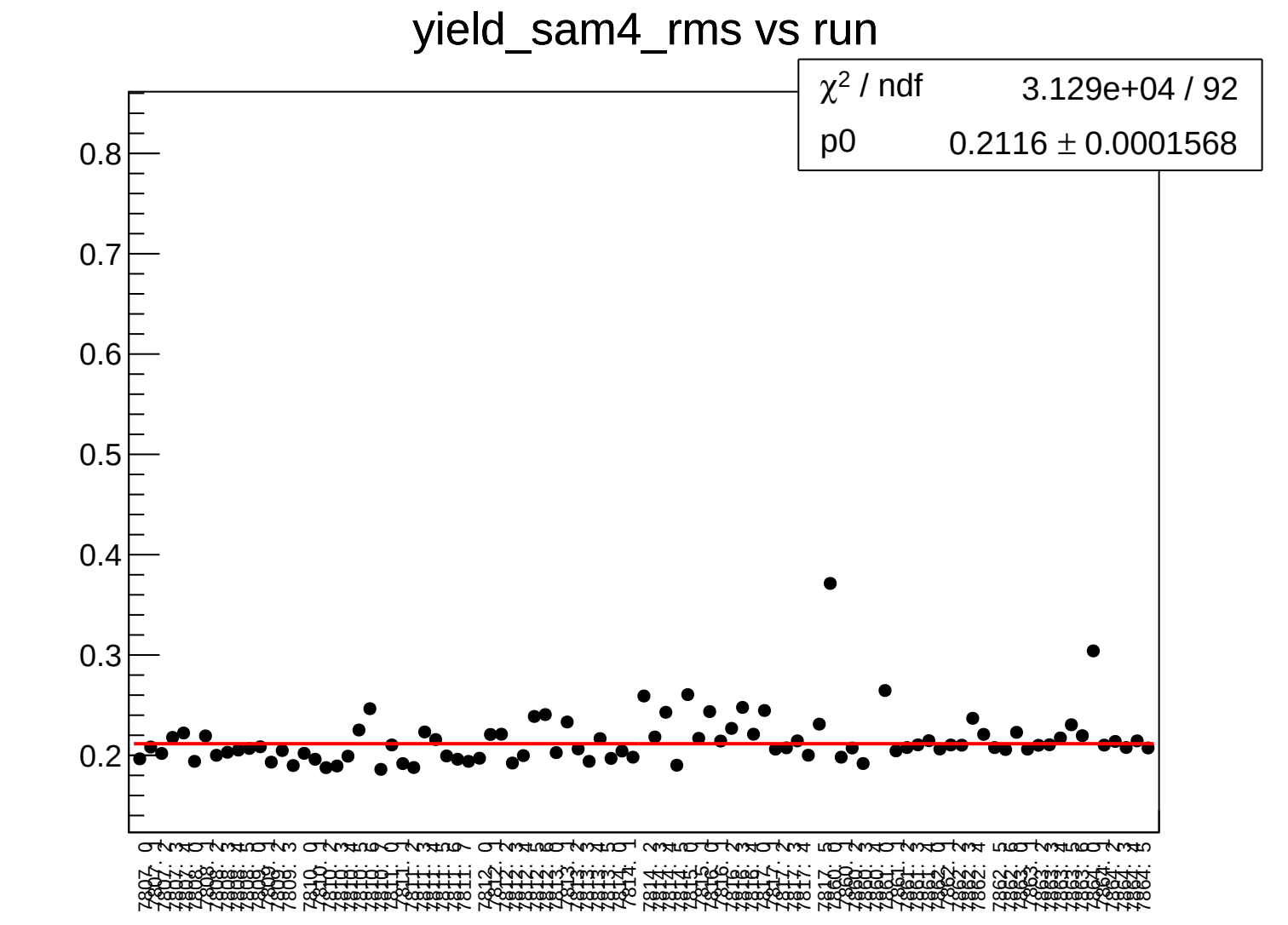

yield_sam3_mean vs run
χ² / ndf 1.836e+05 / 92
p0 24.3 ± 0.0002594
25
24.8
24.6
24.4
24.2
24
pull
Entries 93
Mean −755.2
Std Dev 0
150
100
50
0
−50
−100

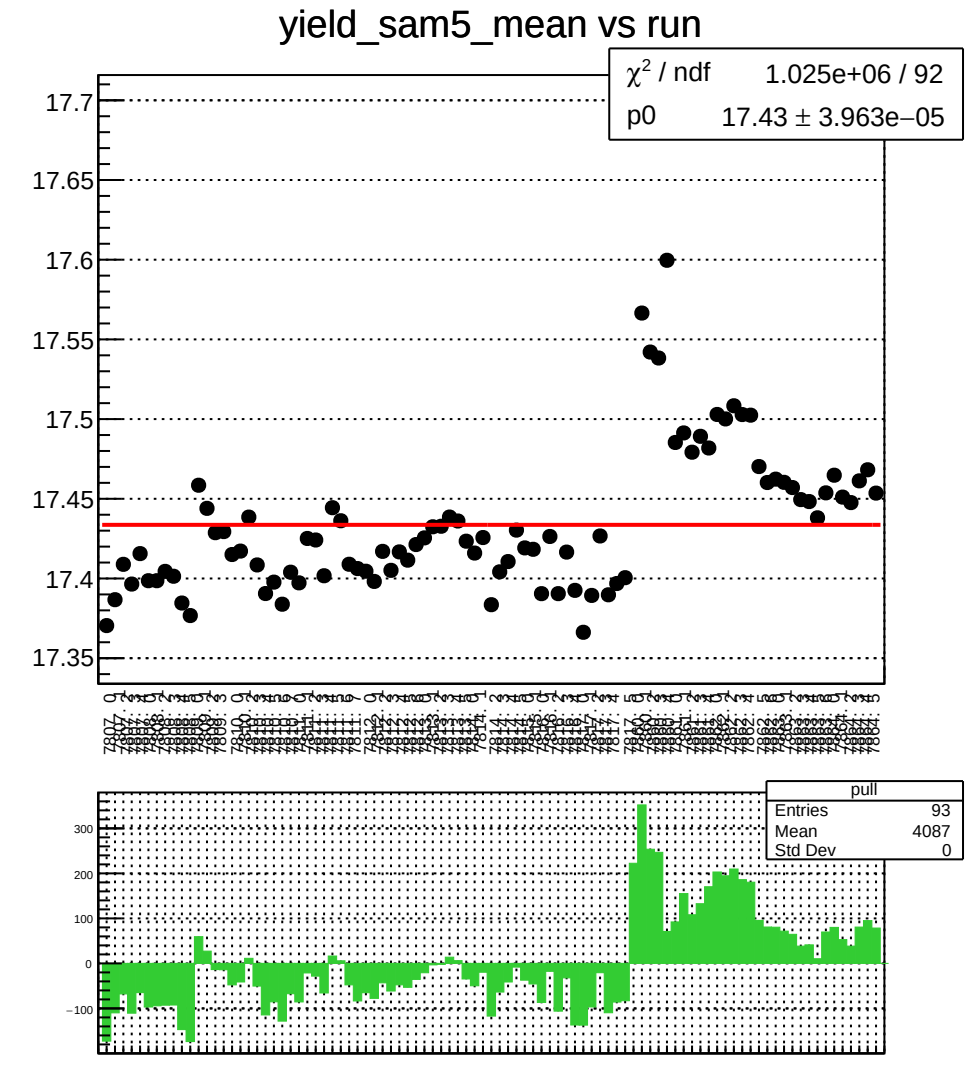

pull1D
Entries 93
Mean 2.698
Std Dev 3.804
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

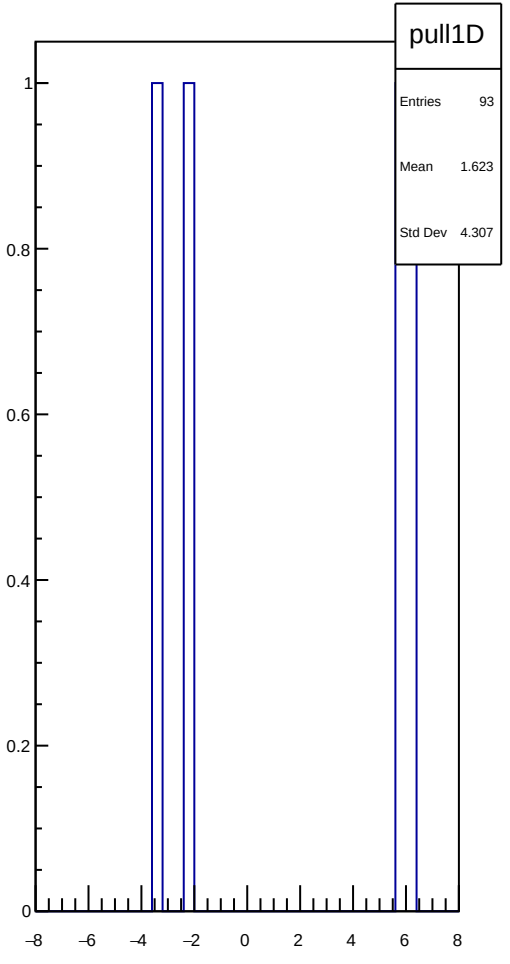

yield_sam3_rms vs run
χ² / ndf 2.408e+04 / 92
p0 0.248 ± 0.0001834
0.6
0.5
0.4
0.3
0.2

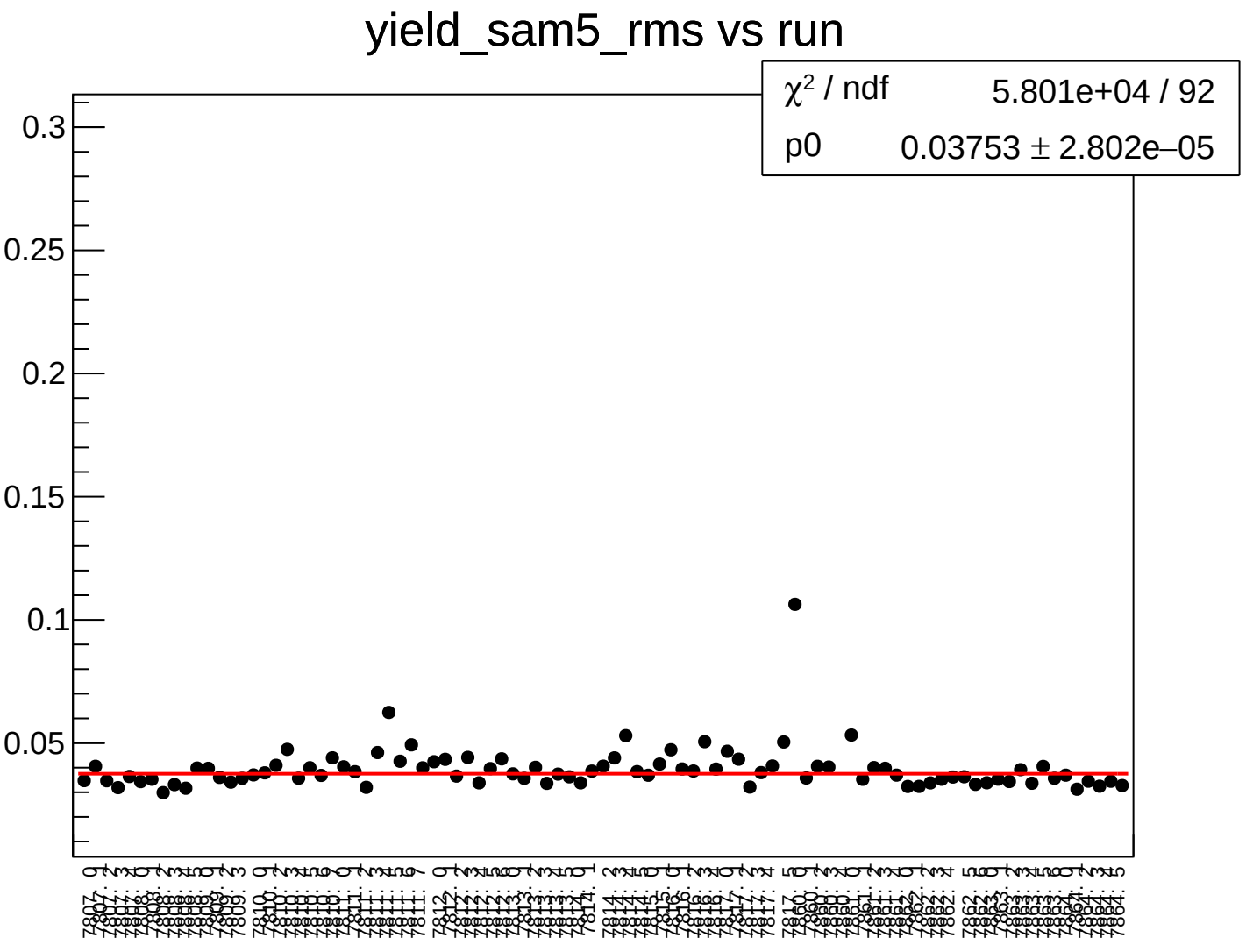

yield_sam4_mean vs run
χ² / ndf 1.418e+05 / 92
p0 14.17 ± 0.0002218
14.8
14.7
14.6
14.5
14.4
14.3
14.2
14.1
14
pull
Entries 93
Mean 78.96
Std Dev 0
150
100
50
0
−50

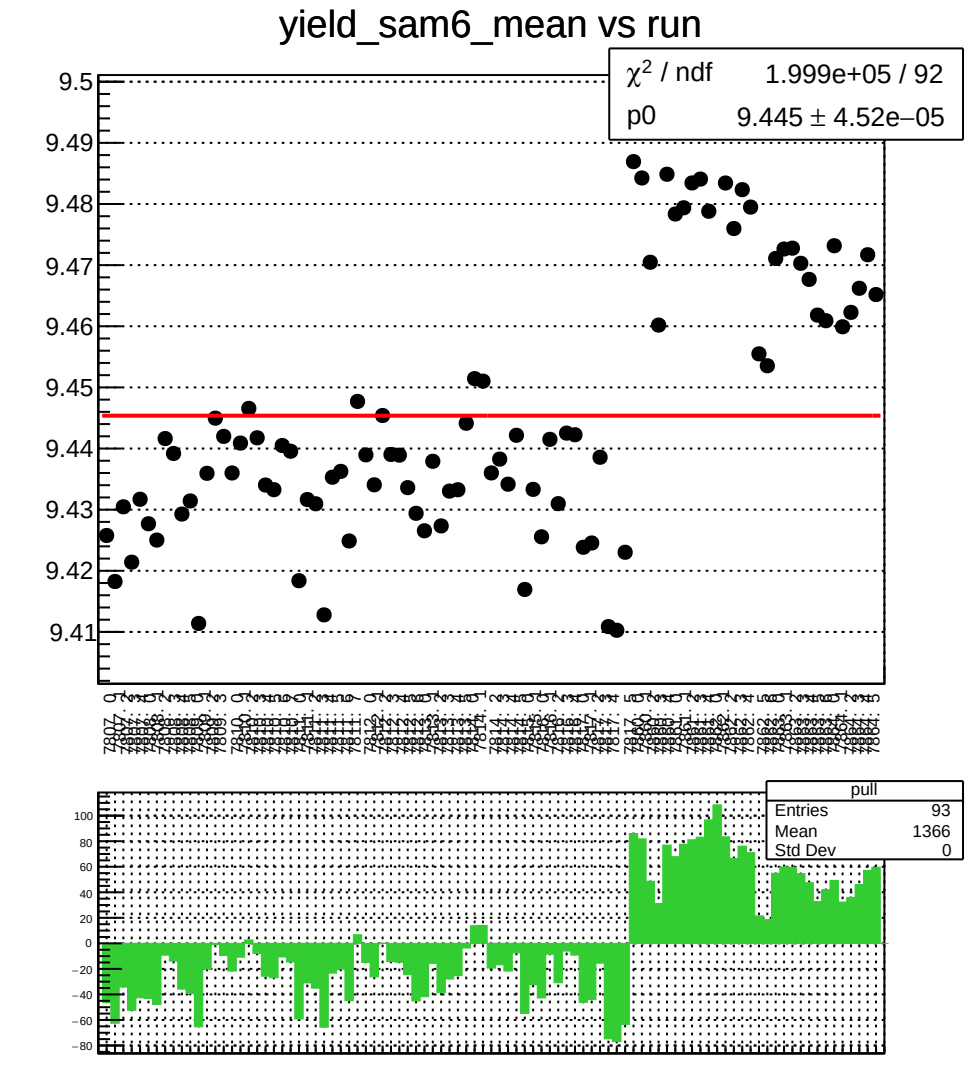

pull1D
Entries 93
Mean 0.525
Std Dev 5.006
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

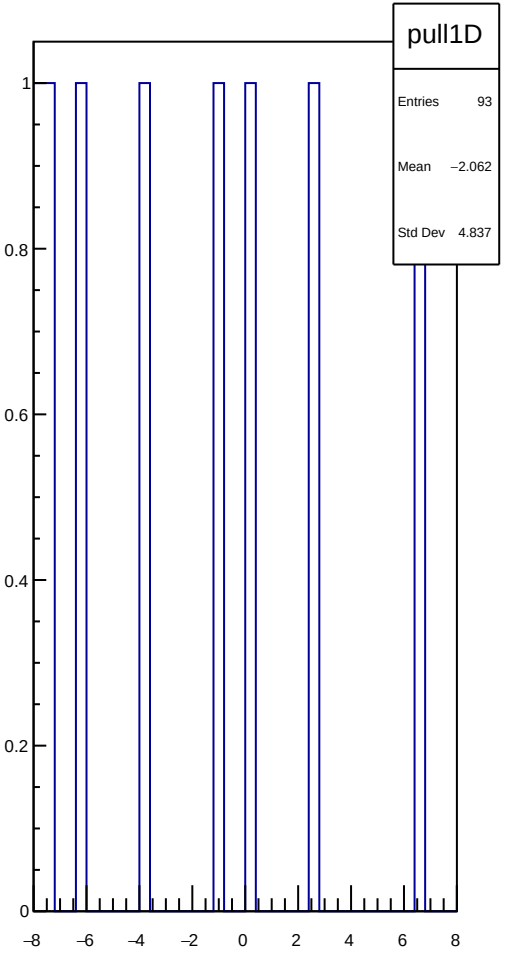

yield_sam4_rms vs run
χ² / ndf 3.129e+04 / 92
p0 0.2116 ± 0.0001568
0.8
0.7
0.6
0.5
0.4
0.3
0.2

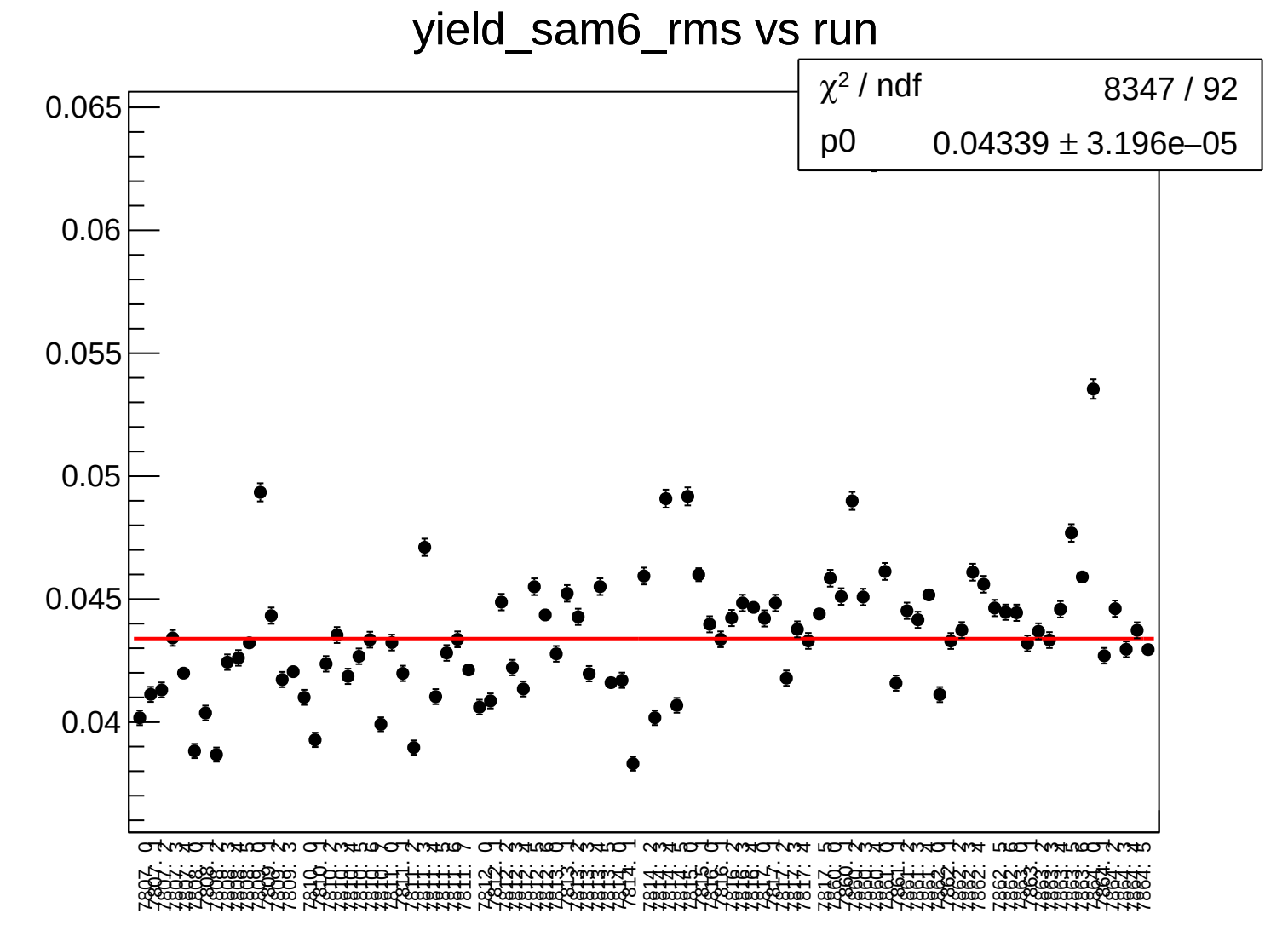

yield_sam5_mean vs run
χ² / ndf 1.025e+06 / 92
p0 17.43 ± 3.963e−05
17.7
17.65
17.6
17.55
17.5
17.45
17.4
17.35
pull
Entries 93
Mean 4087
Std Dev 0
300
200
100
0
−100

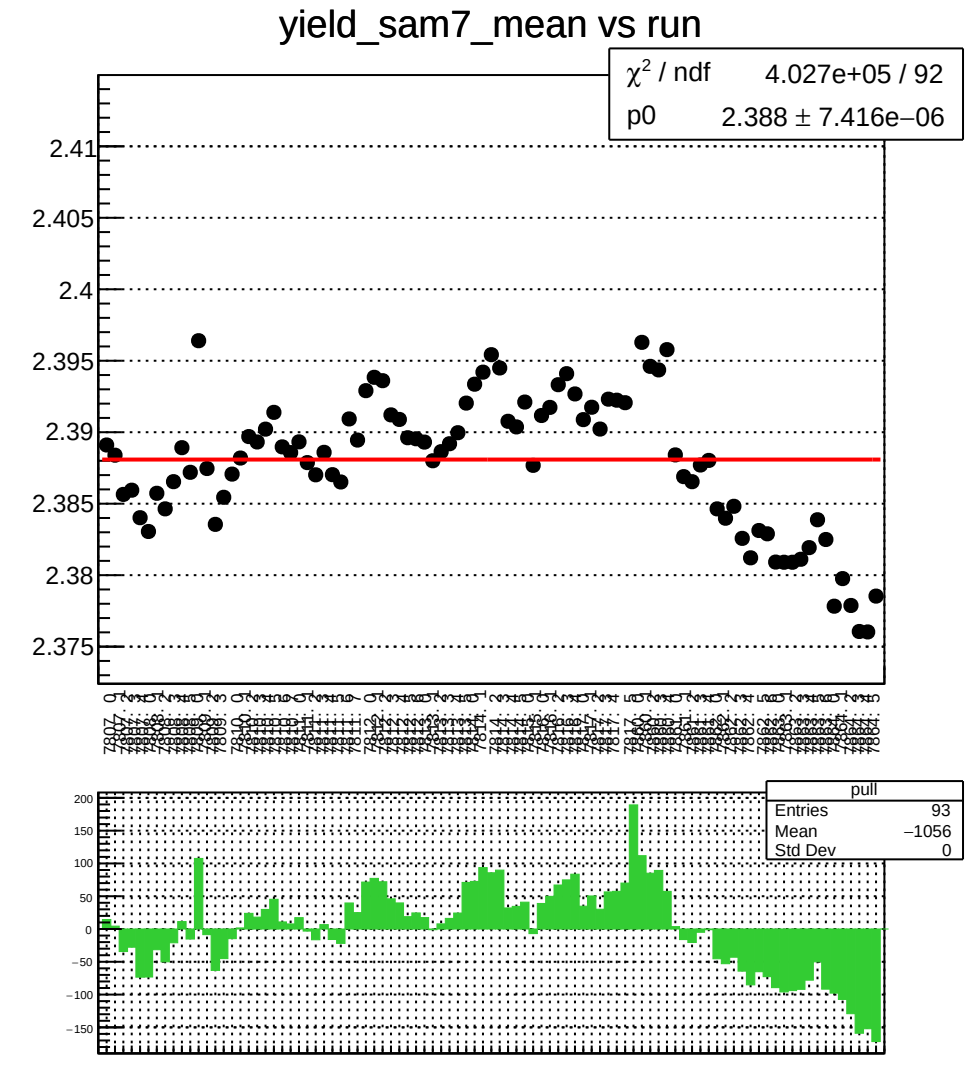

pull1D
Entries 93
Mean 1.623
Std Dev 4.307
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

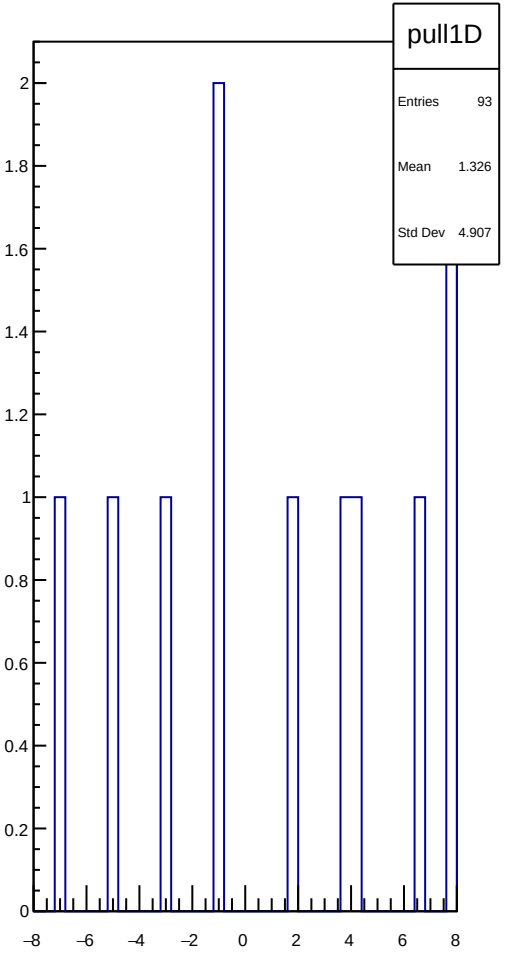

yield_sam5_rms vs run
χ² / ndf 5.801e+04 / 92
p0 0.03753 ± 2.802e–05
0.3
0.25
0.2
0.15
0.1
0.05

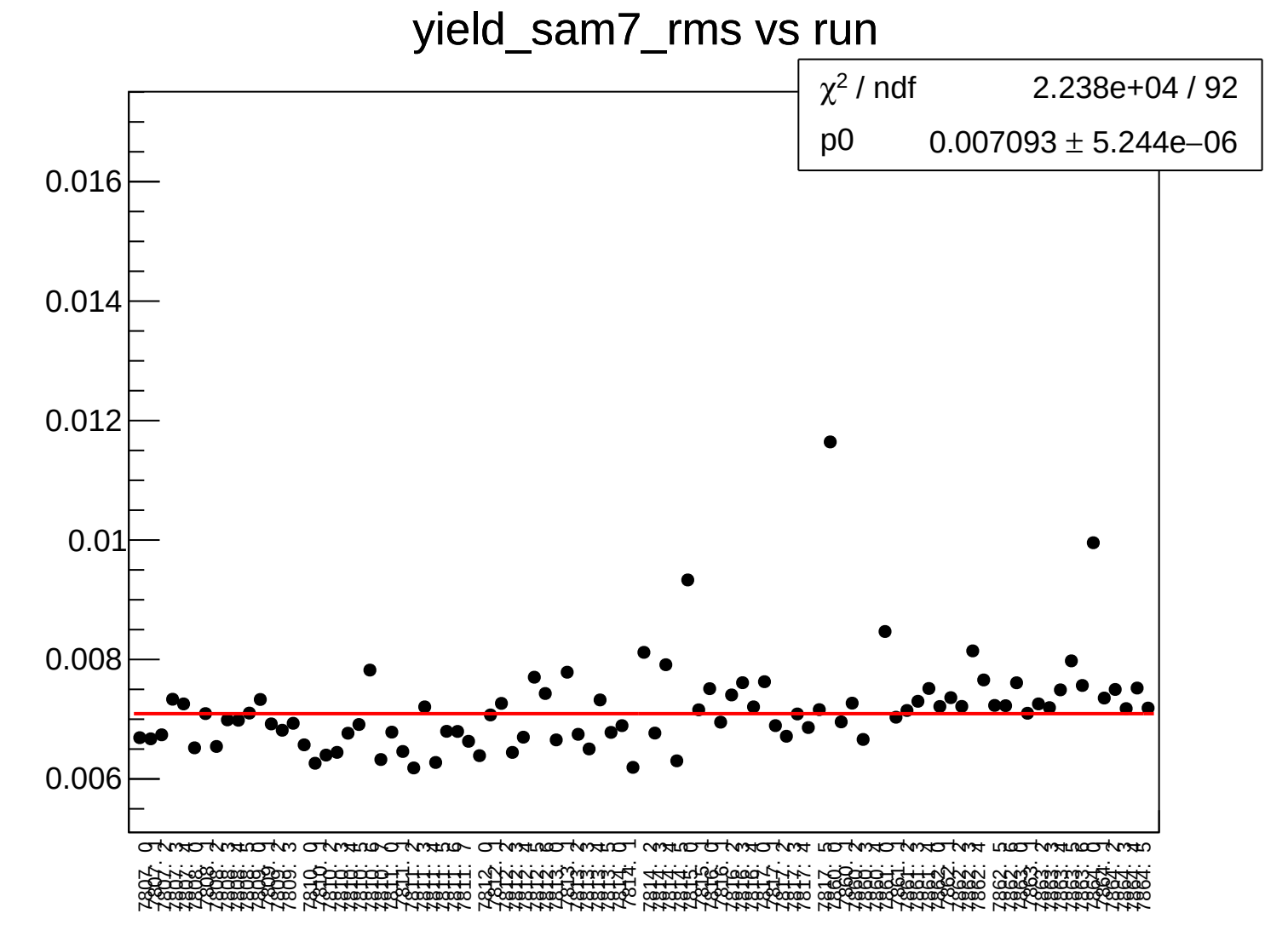

yield_sam6_mean vs run
χ² / ndf 1.999e+05 / 92
p0 9.445 ± 4.52e−05
9.5
9.49
9.48
9.47
9.46
9.45
9.44
9.43
9.42
9.41
pull
Entries 93
Mean 1366
Std Dev 0
100
80
60
40
20
0
−20
−40
−60
−80

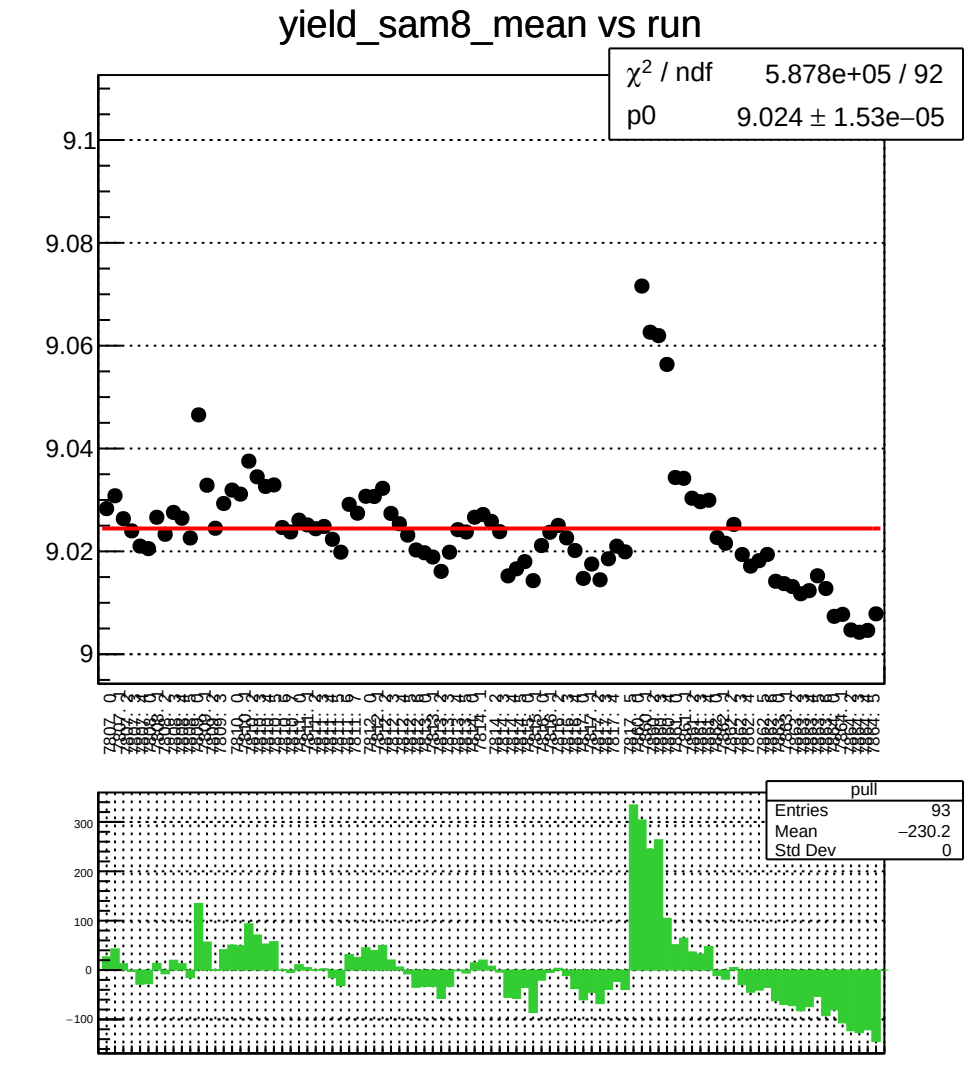

pull1D
Entries 93
Mean −2.062
Std Dev 4.837
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

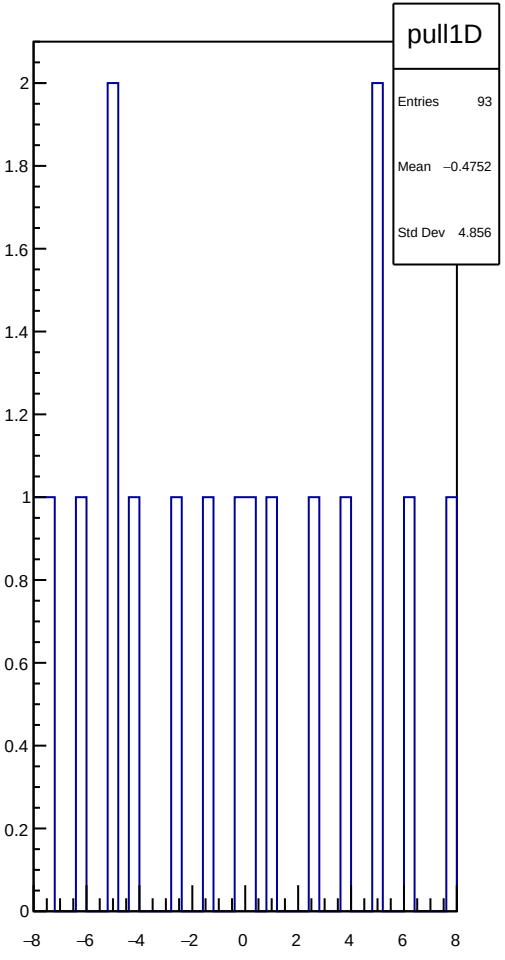

yield_sam6_rms vs run
χ² / ndf 8347 / 92
p0 0.04339 ± 3.196e−05
0.065
0.06
0.055
0.05
0.045
0.04

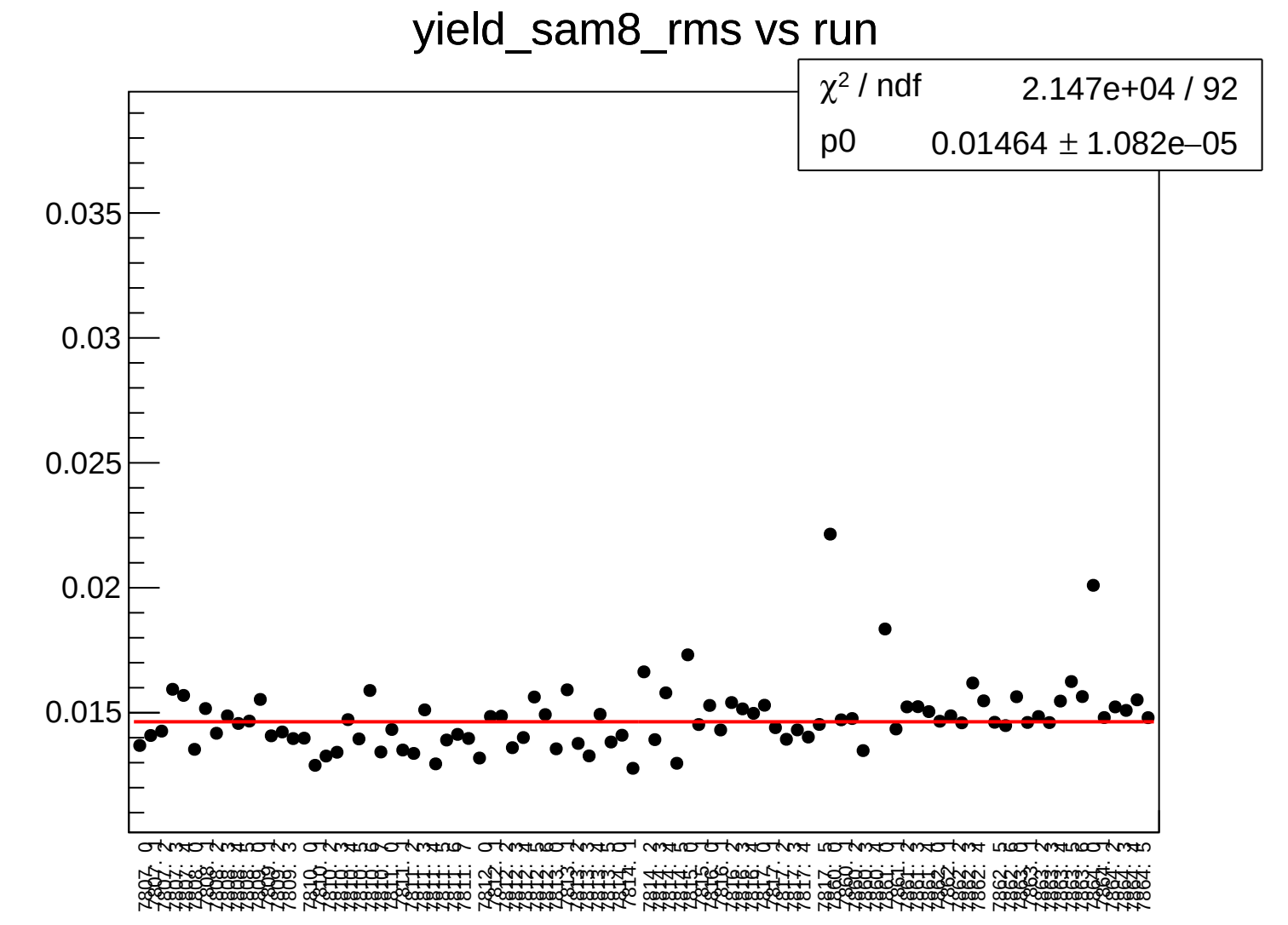

yield_sam7_mean vs run
χ² / ndf 4.027e+05 / 92
p0 2.388 ± 7.416e−06
2.41
2.405
2.4
2.395
2.39
2.385
2.38
2.375
pull
Entries 93
Mean −1056
Std Dev 0
200
150
100
50
0
−50
−100
−150

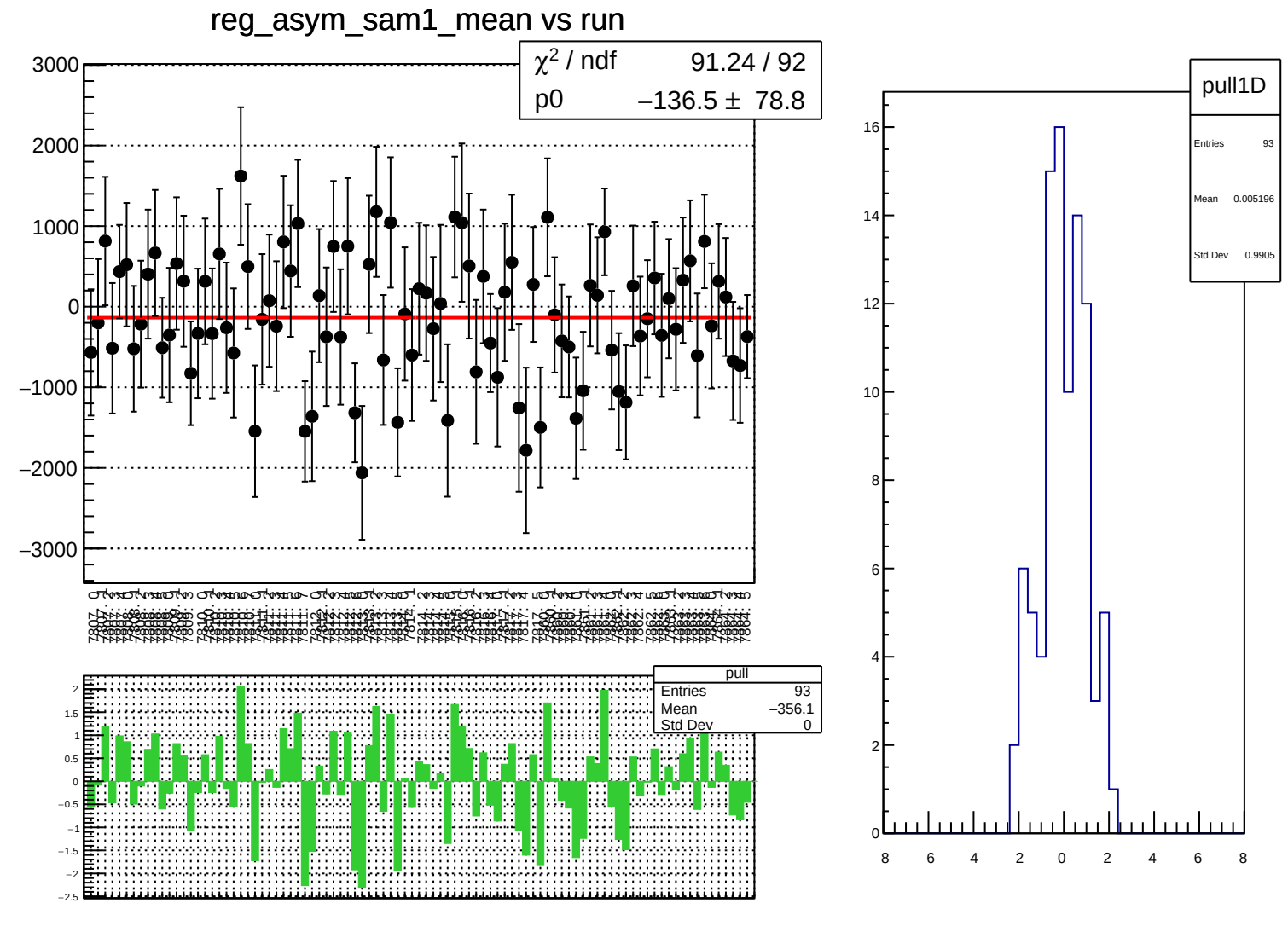

pull1D
Entries 93
Mean 1.326
Std Dev 4.907
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

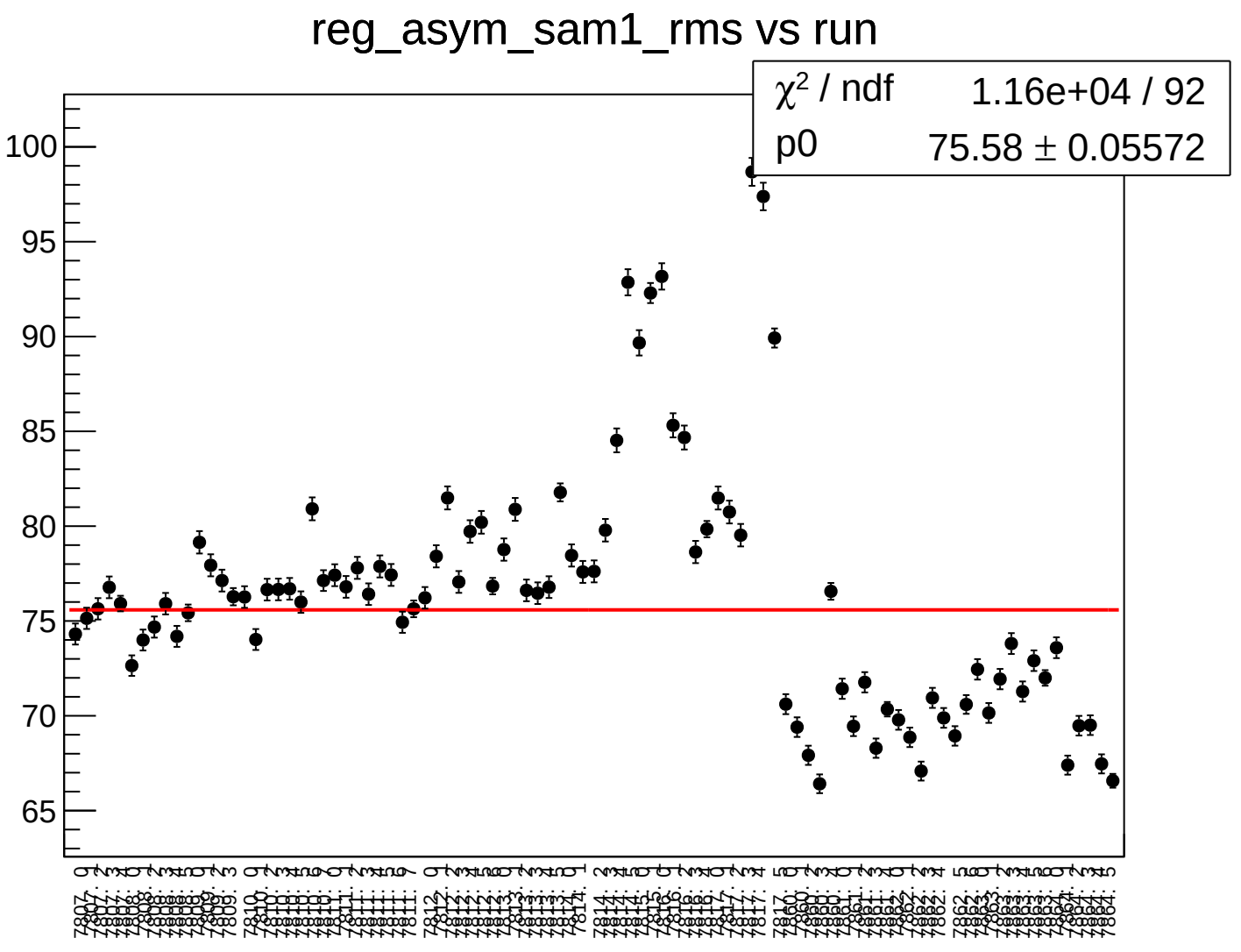

yield_sam7_rms vs run
χ² / ndf 2.238e+04 / 92
p0 0.007093 ± 5.244e−06
0.016
0.014
0.012
0.01
0.008
0.006

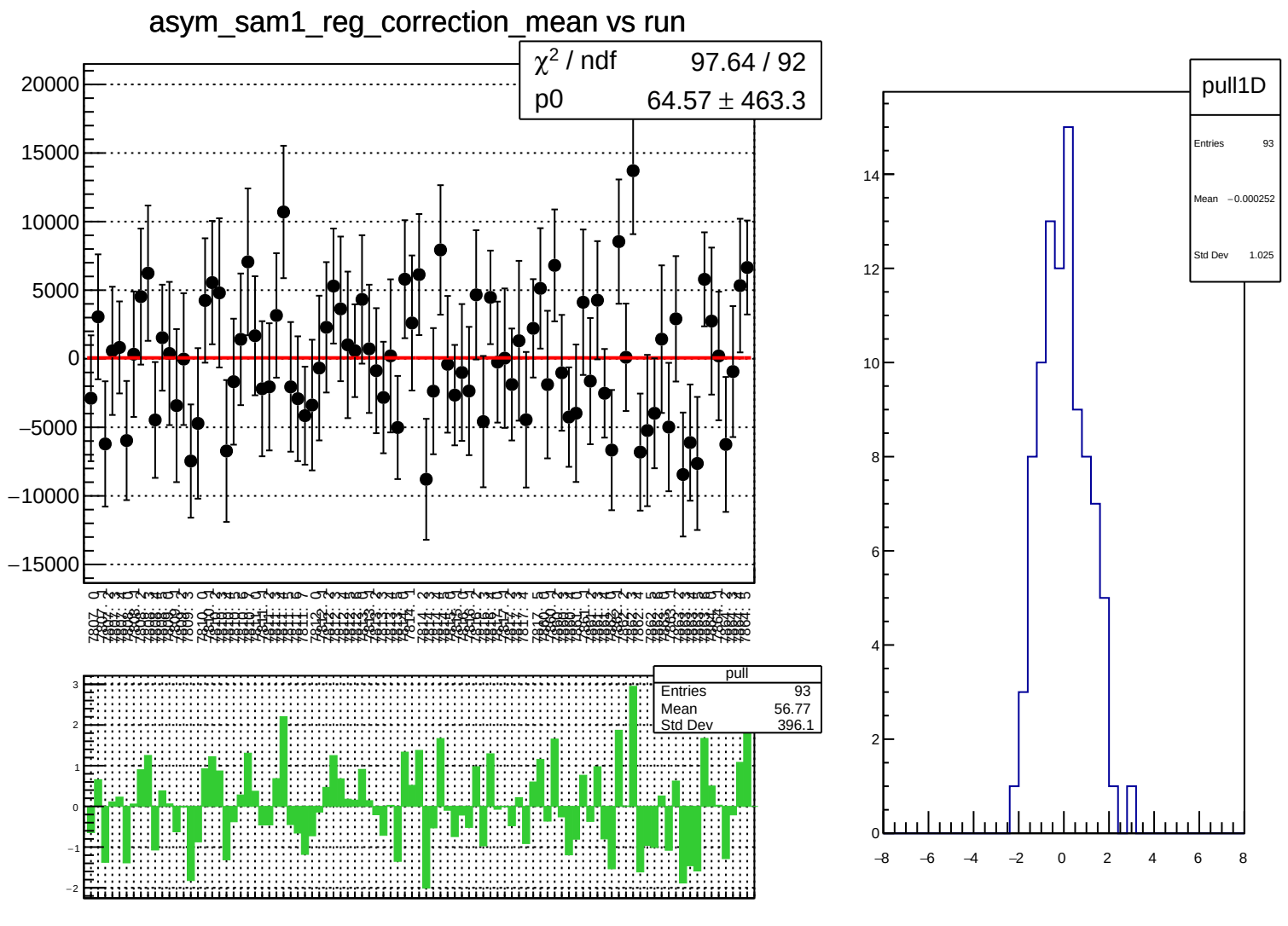

yield_sam8_mean vs run
χ² / ndf 5.878e+05 / 92
p0 9.024 ± 1.53e−05
9.1
9.08
9.06
9.04
9.02
9
pull
Entries 93
Mean −230.2
Std Dev 0
300
200
100
0
−100

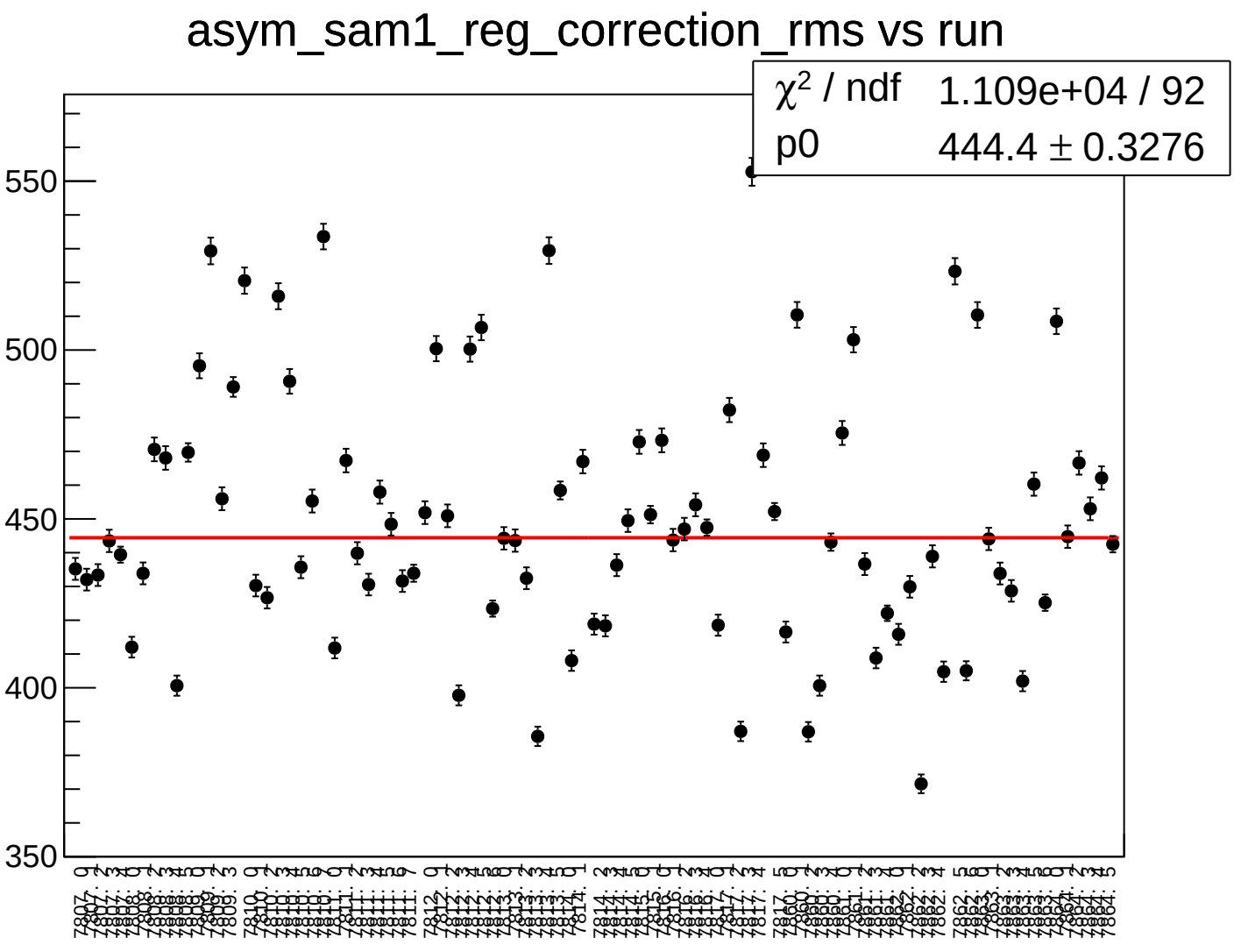

pull1D
Entries 93
Mean −0.4752
Std Dev 4.856
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

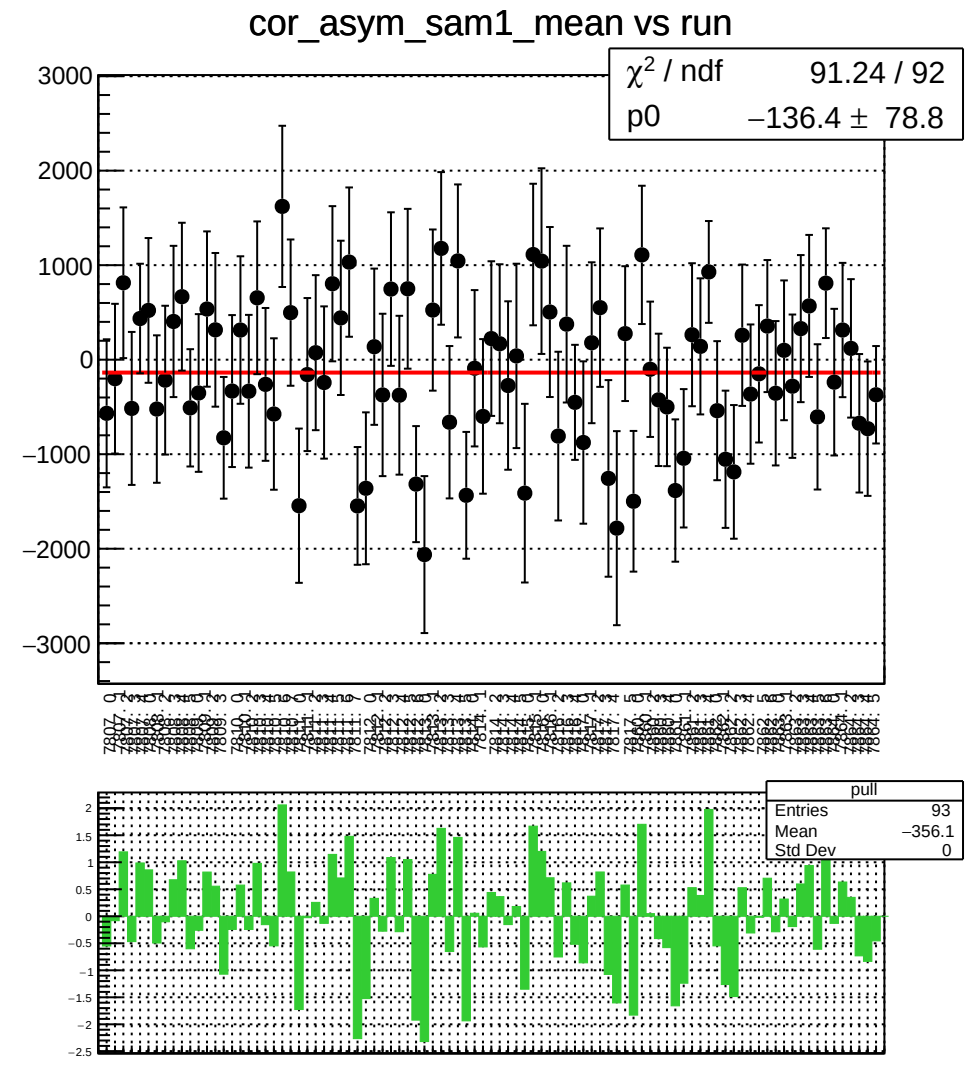

yield_sam8_rms vs run
χ² / ndf 2.147e+04 / 92
p0 0.01464 ± 1.082e−05
0.035
0.03
0.025
0.02
0.015

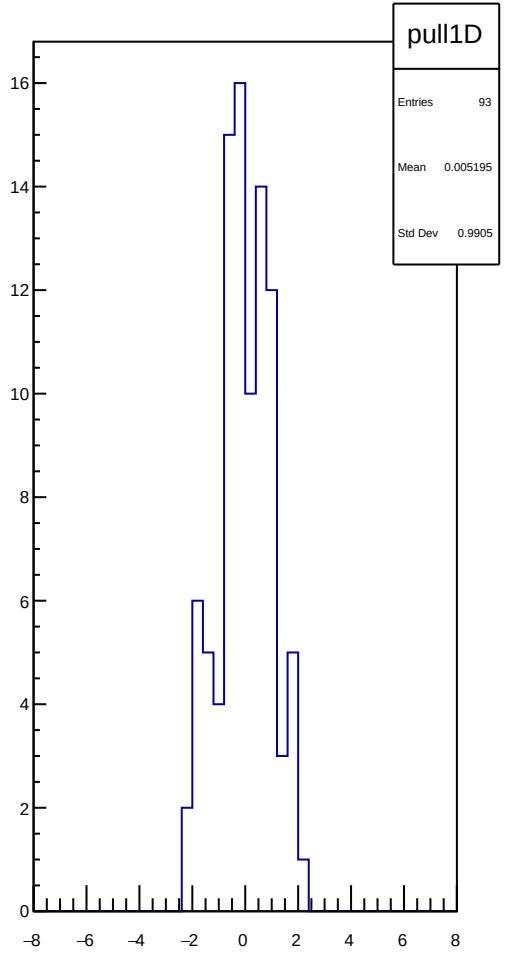

reg_asym_sam1_mean vs run
χ² / ndf 91.24 / 92
p0 −136.5 ± 78.8
pull
Entries 93
Mean −356.1
Std Dev 0
pull1D
Entries 93
Mean 0.005196
Std Dev 0.9905

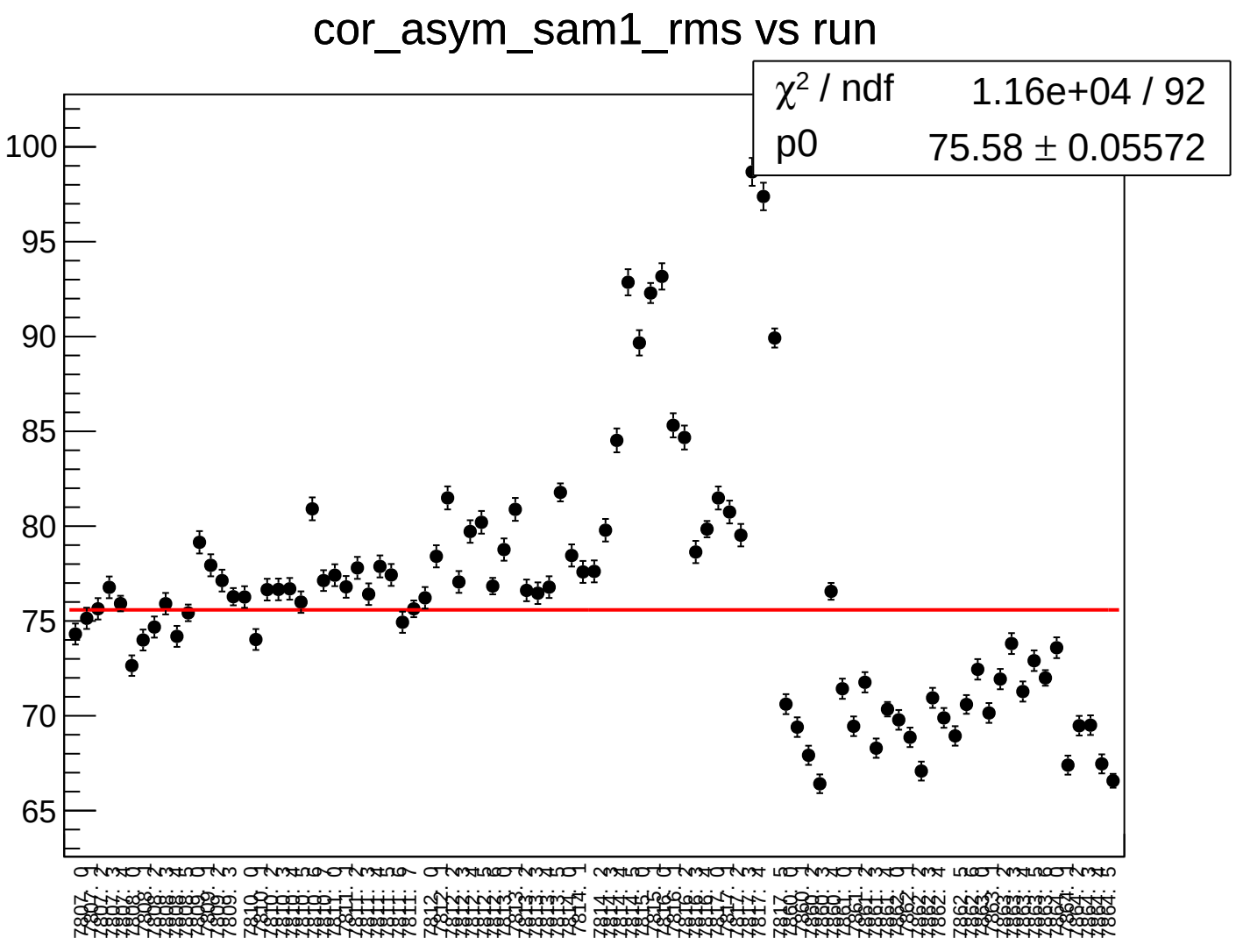

reg_asym_sam1_rms vs run
χ^2 / ndf 1.16e+04 / 92
p0 75.58 ± 0.05572
100
95
90
85
80
75
70
65

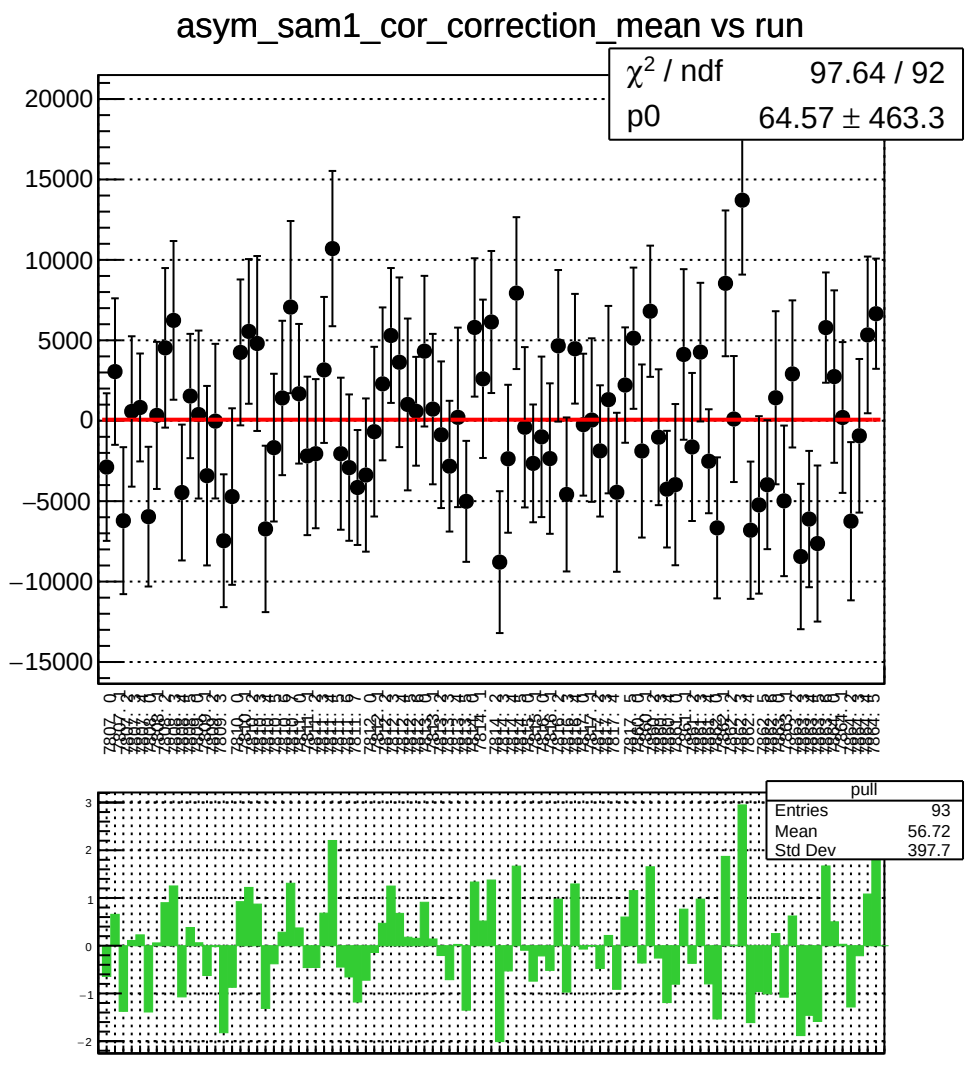

asym_sam1_reg_correction_mean vs run
χ² / ndf 97.64 / 92
p0 64.57 ± 463.3
pull
Entries 93
Mean 56.77
Std Dev 396.1
pull1D
Entries 93
Mean −0.000252
Std Dev 1.025

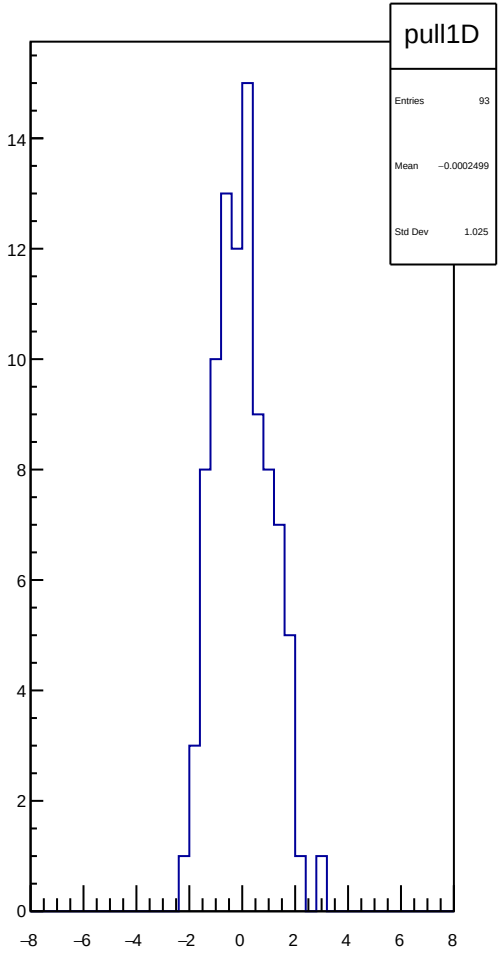

asym_sam1_reg_correction_rms vs run
χ² / ndf 1.109e+04 / 92
p0 444.4 ± 0.3276
550
500
450
400
350

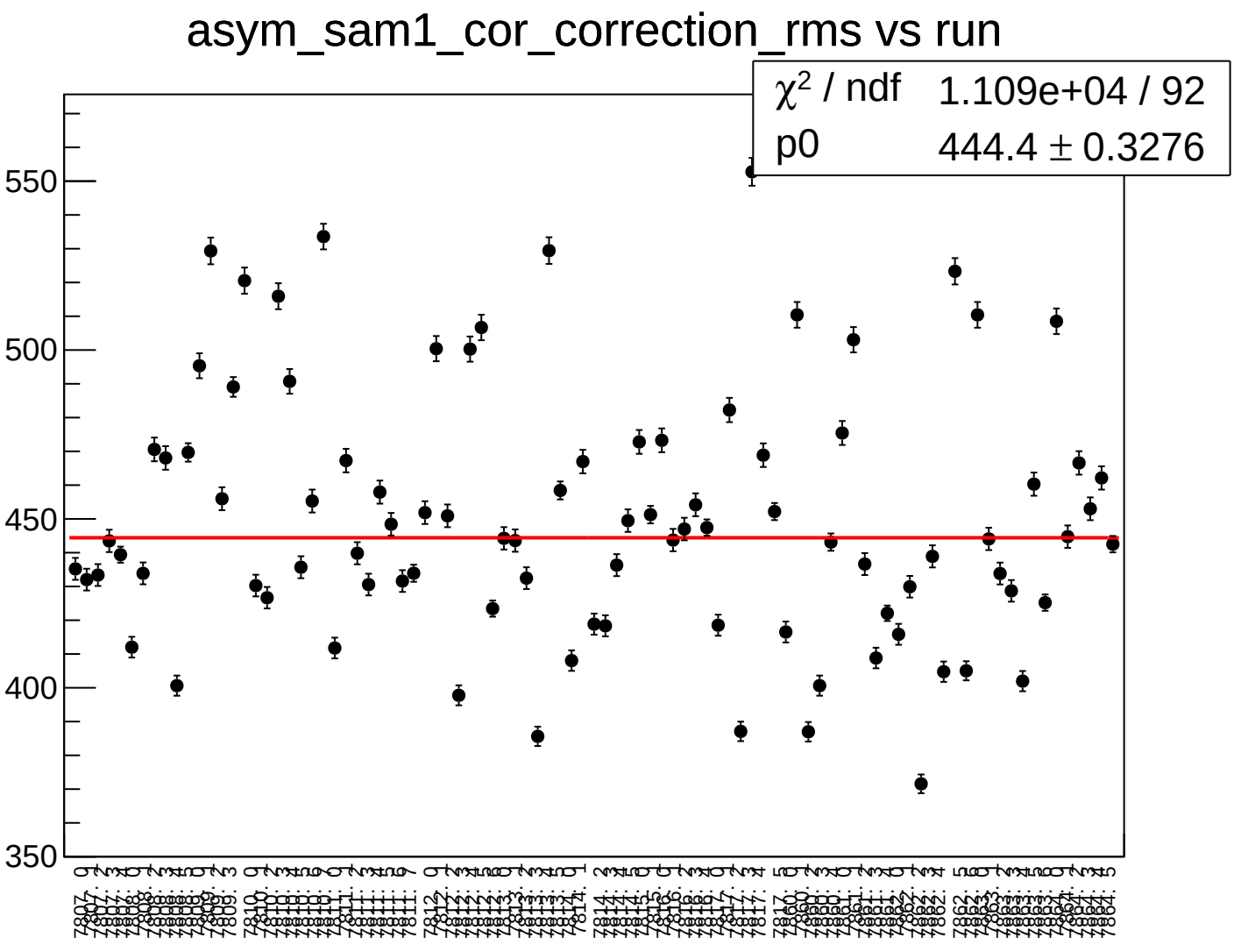

cor_asym_sam1_mean vs run
χ² / ndf 91.24 / 92
p0 −136.4 ± 78.8
pull
Entries 93
Mean −356.1
Std Dev 0

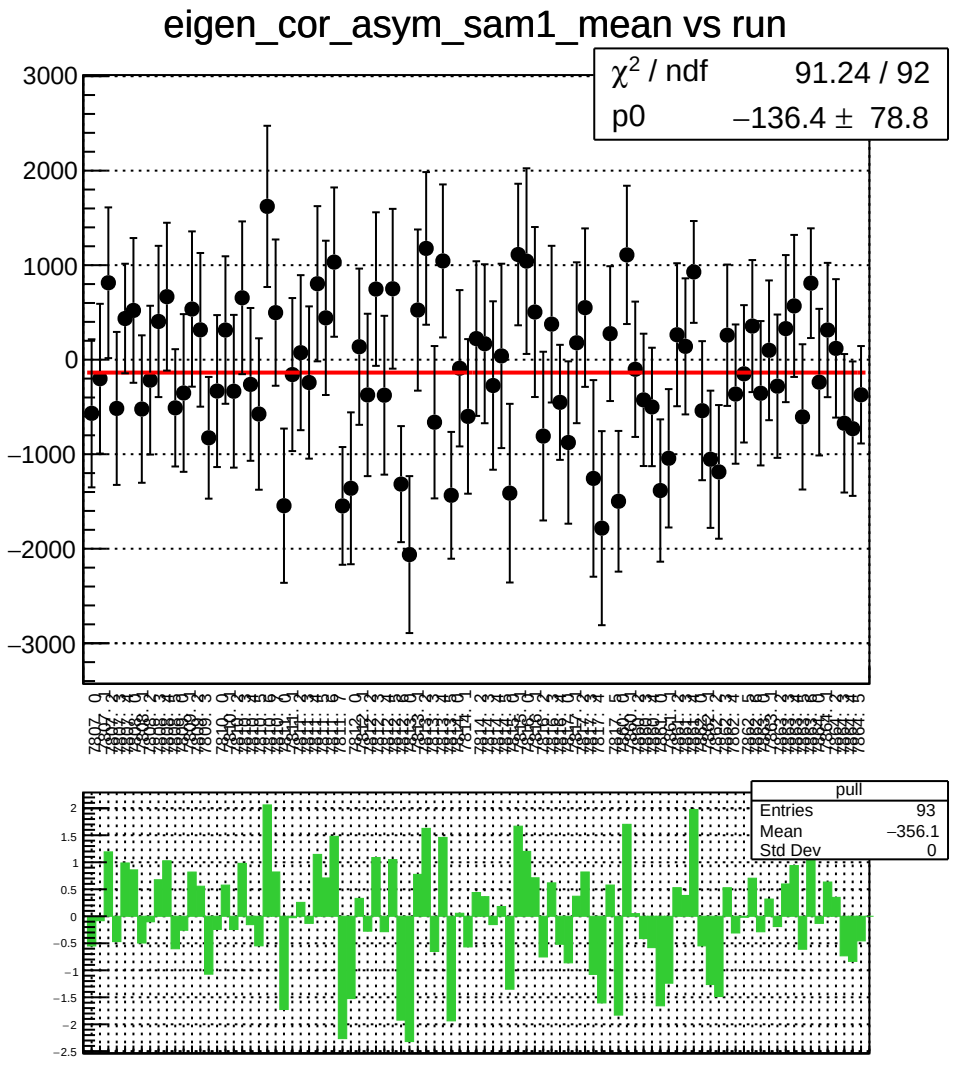

pull1D
Entries 93
Mean 0.005195
Std Dev 0.9905

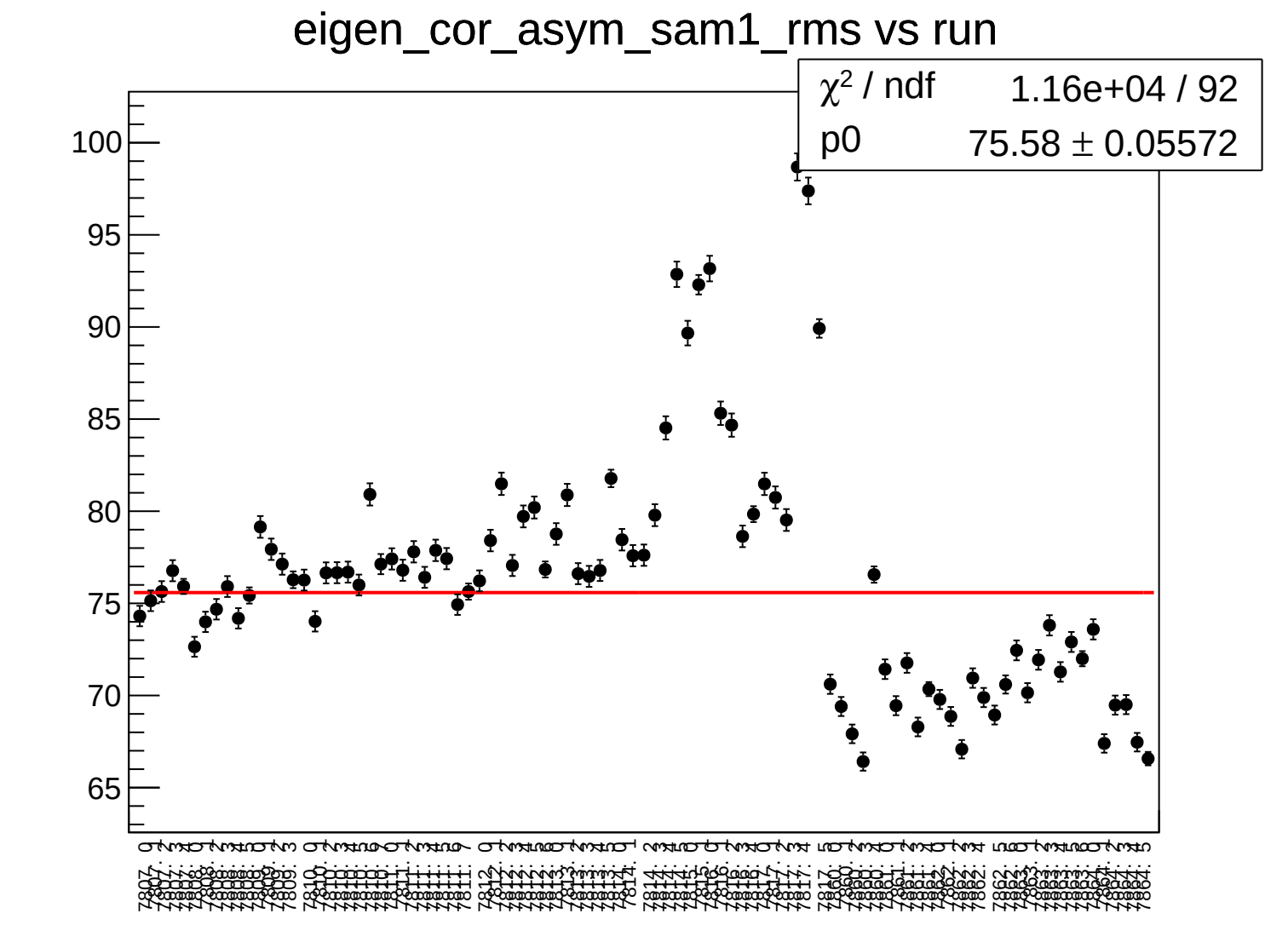

cor_asym_sam1_rms vs run
χ^2 / ndf 1.16e+04 / 92
p0 75.58 ± 0.05572
100
95
90
85
80
75
70
65

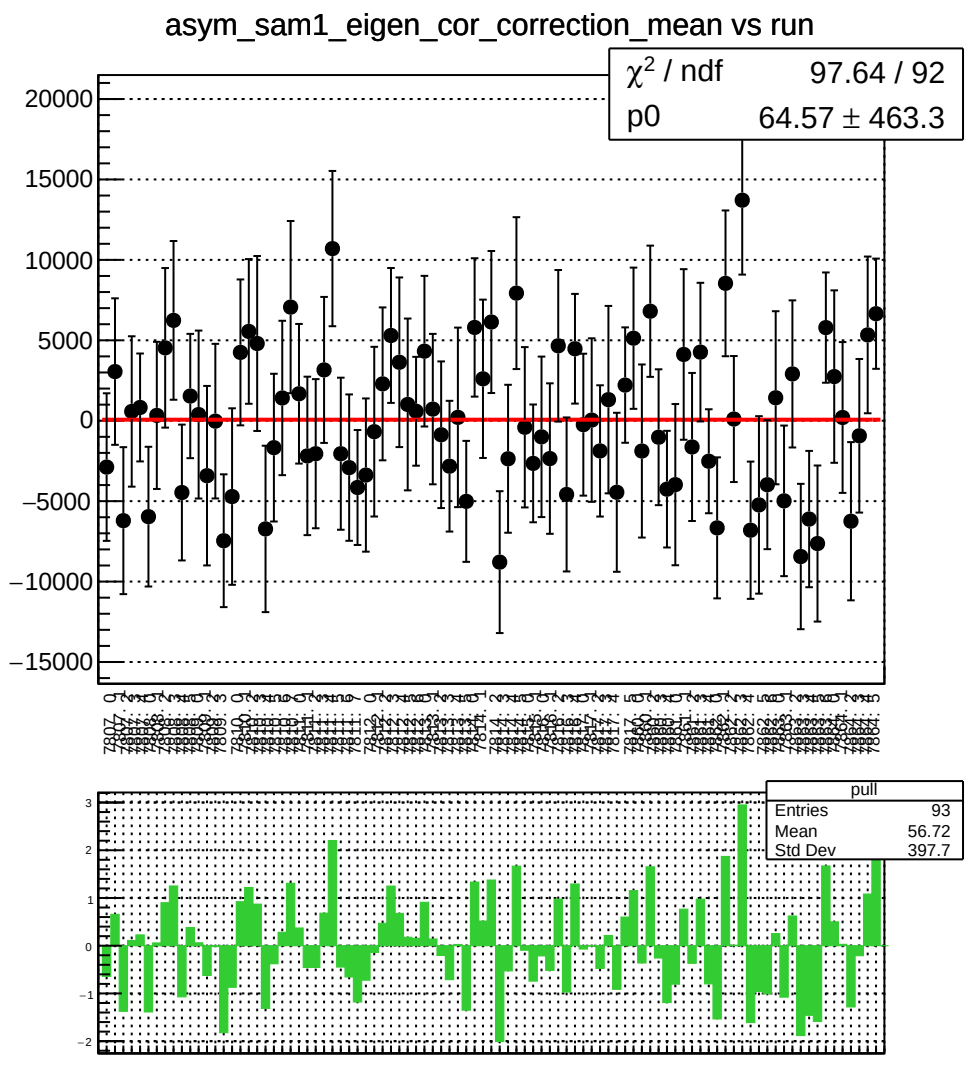

asym_sam1_cor_correction_mean vs run
χ² / ndf 97.64 / 92
p0 64.57 ± 463.3
pull
Entries 93
Mean 56.72
Std Dev 397.7

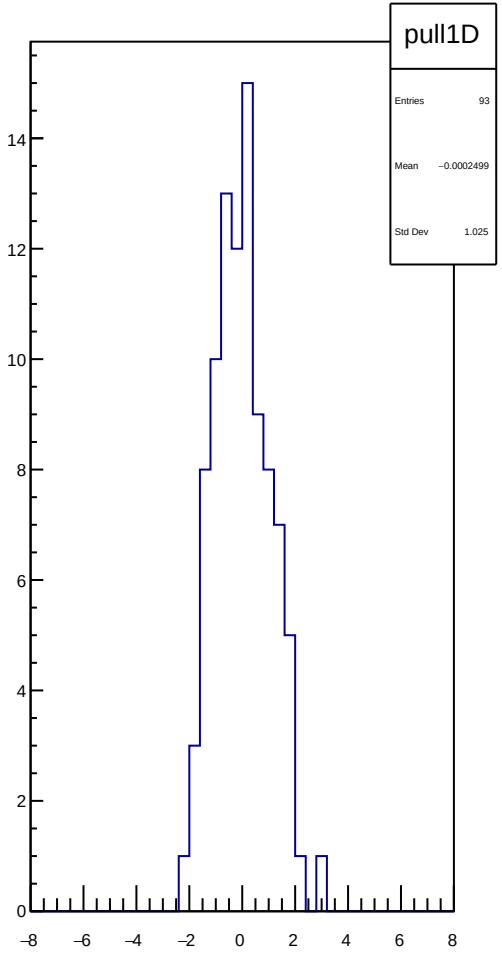

pull1D
Entries 93
Mean −0.0002499
Std Dev 1.025

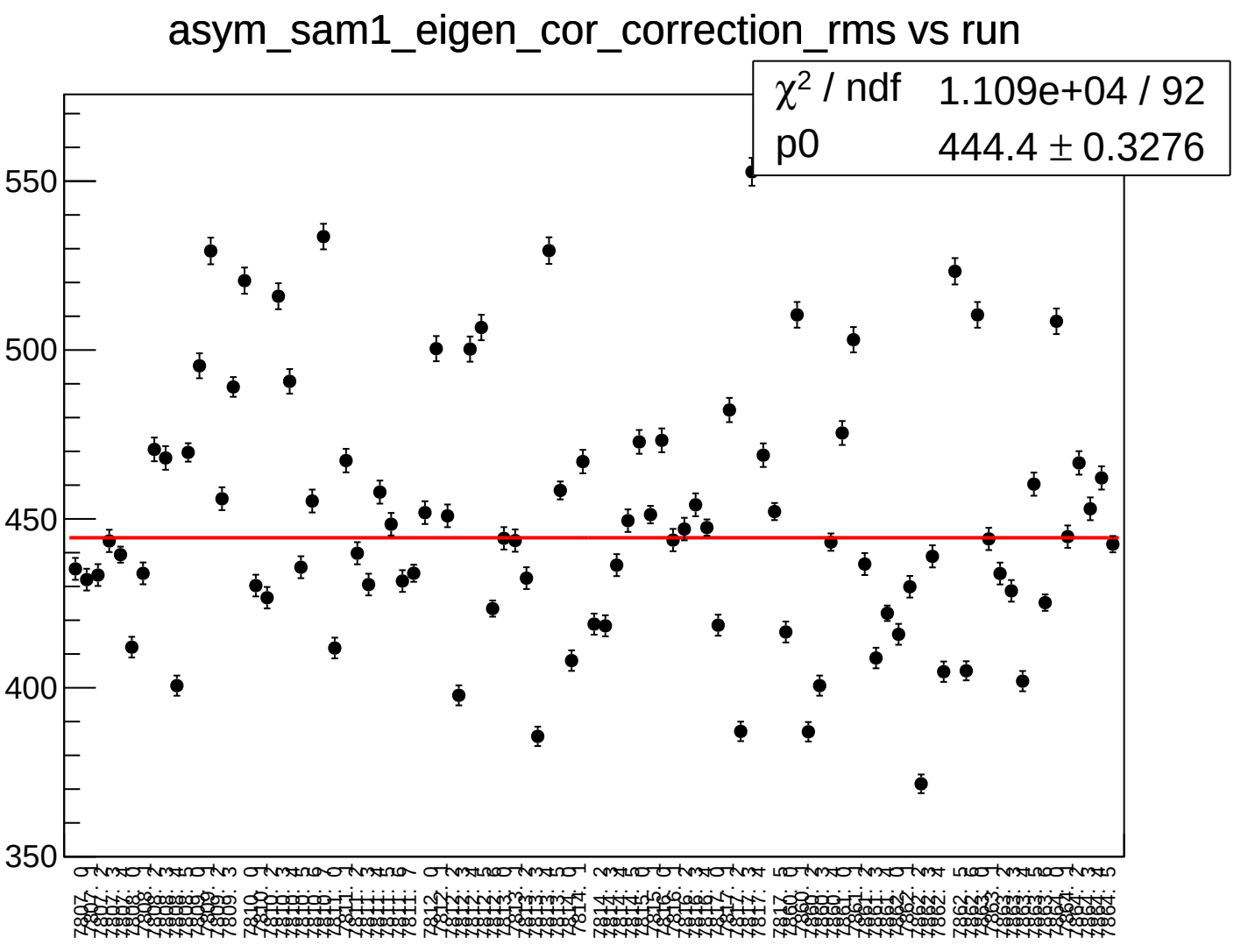

asym_sam1_cor_correction_rms vs run
χ² / ndf 1.109e+04 / 92
p0 444.4 ± 0.3276
550
500
450
400
350

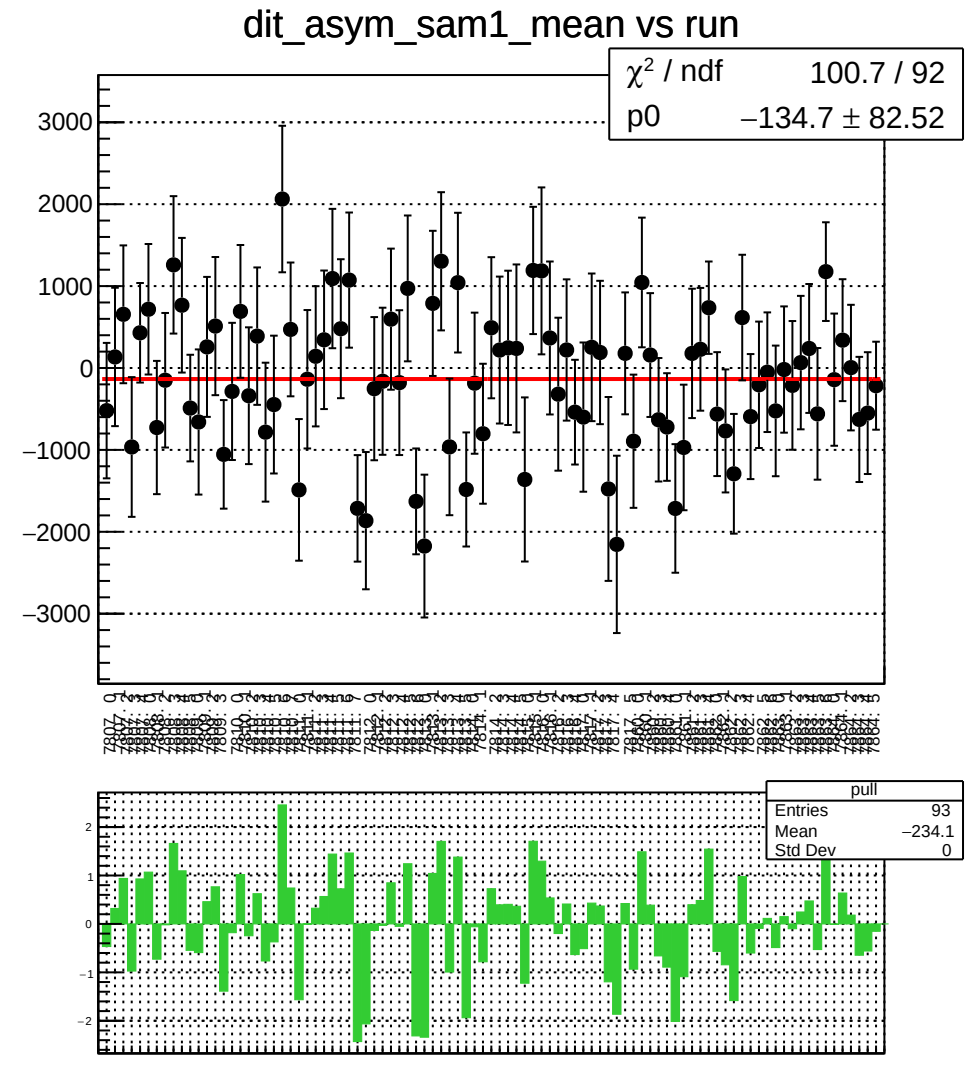

eigen_cor_asym_sam1_mean vs run
χ² / ndf 91.24 / 92
p0 −136.4 ± 78.8
pull
Entries 93
Mean −356.1
Std Dev 0
pull1D
Entries 93
Mean 0.005195
Std Dev 0.9905

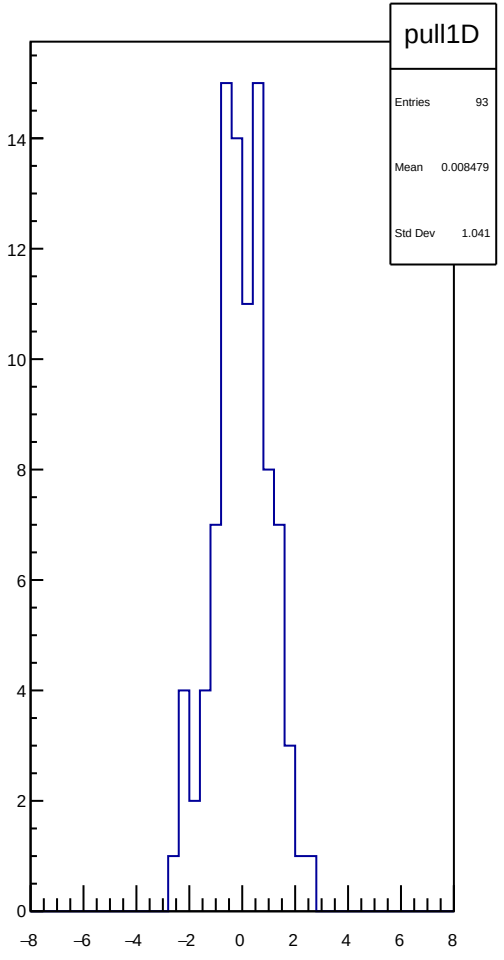

eigen_cor_asym_sam1_rms vs run
χ^2 / ndf 1.16e+04 / 92
p0 75.58 ± 0.05572
100
95
90
85
80
75
70
65

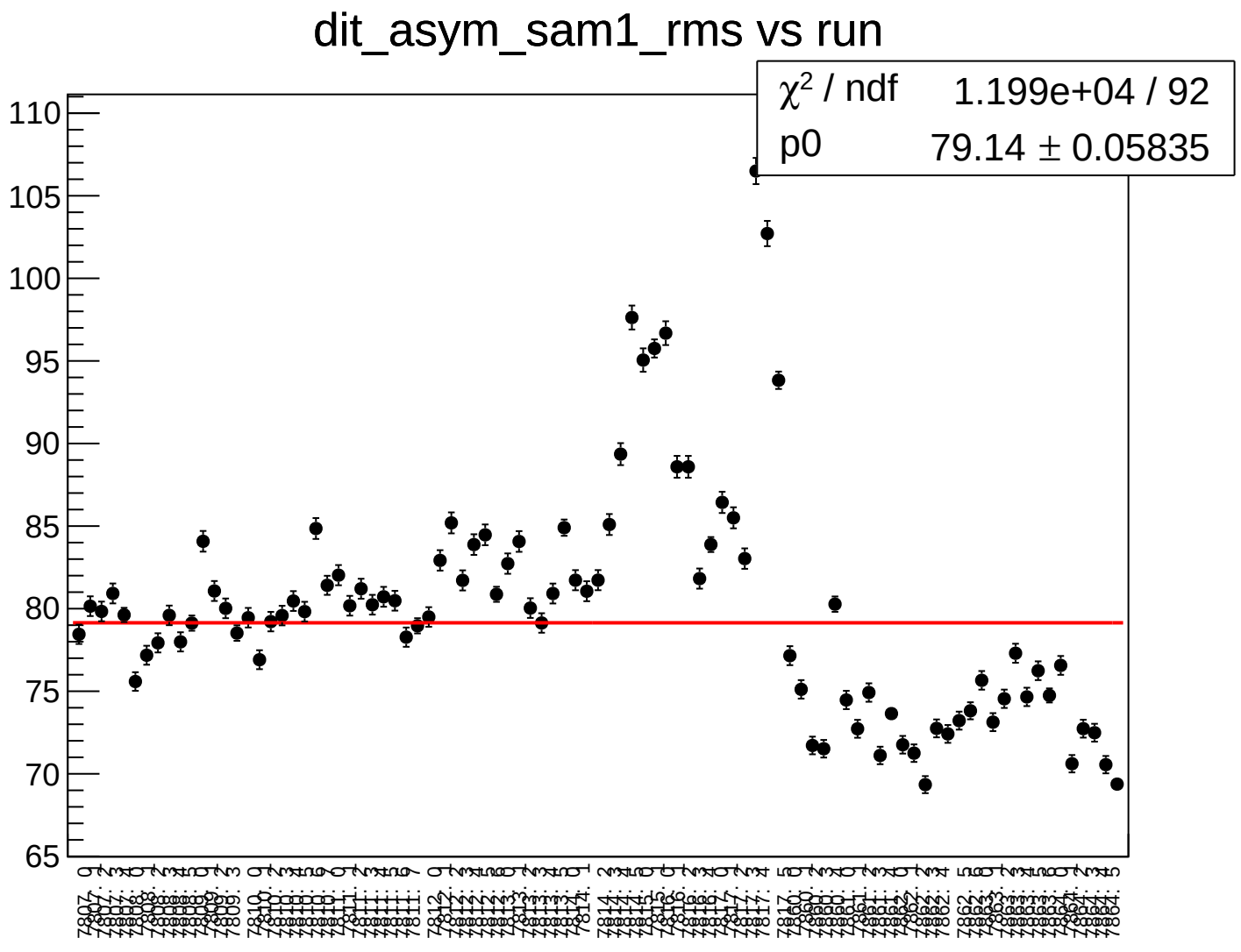

asym_sam1_eigen_cor_correction_mean vs run
χ² / ndf 97.64 / 92
p0 64.57 ± 463.3
pull
Entries 93
Mean 56.72
Std Dev 397.7

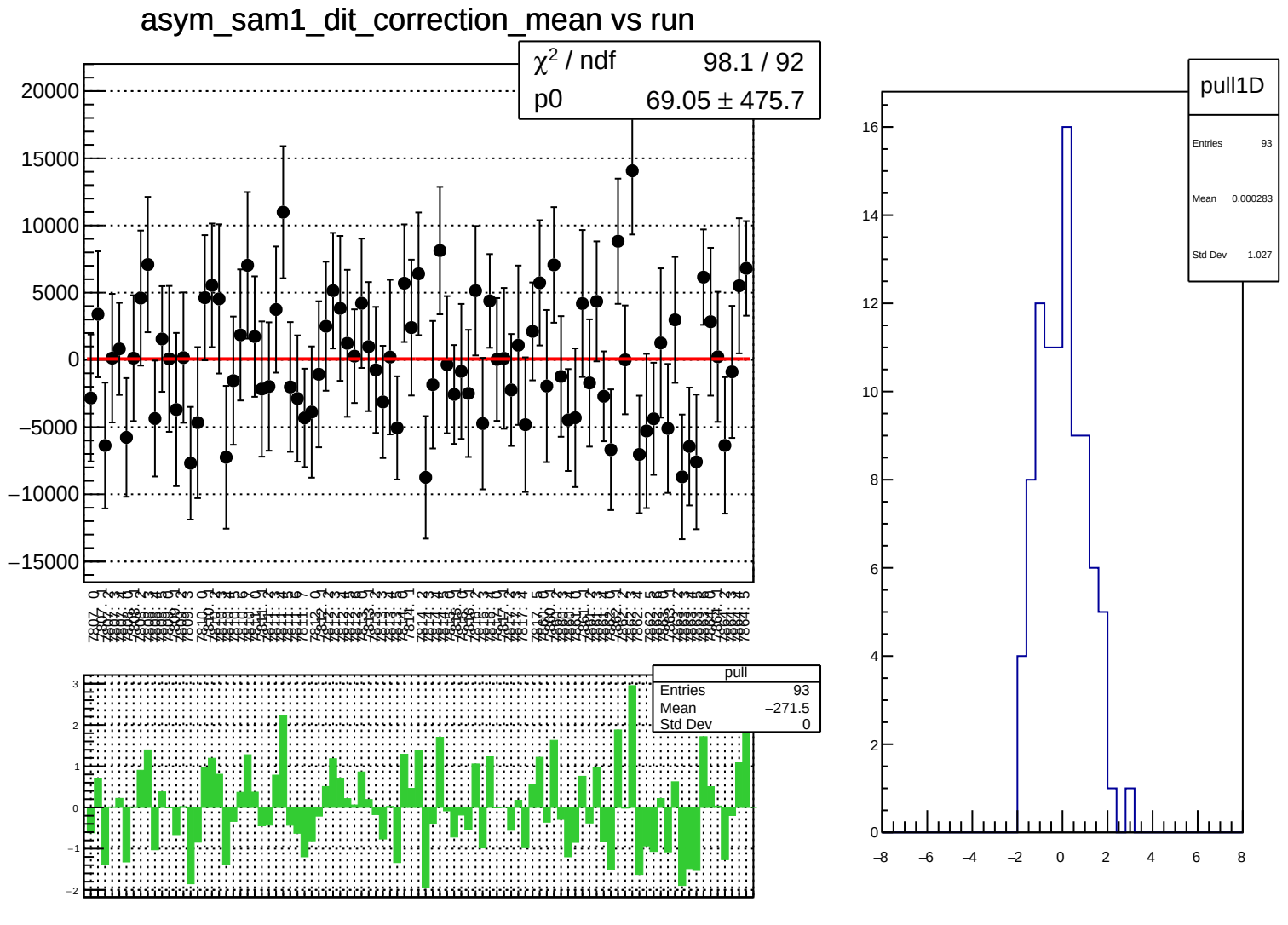

pull1D
Entries 93
Mean −0.0002499
Std Dev 1.025

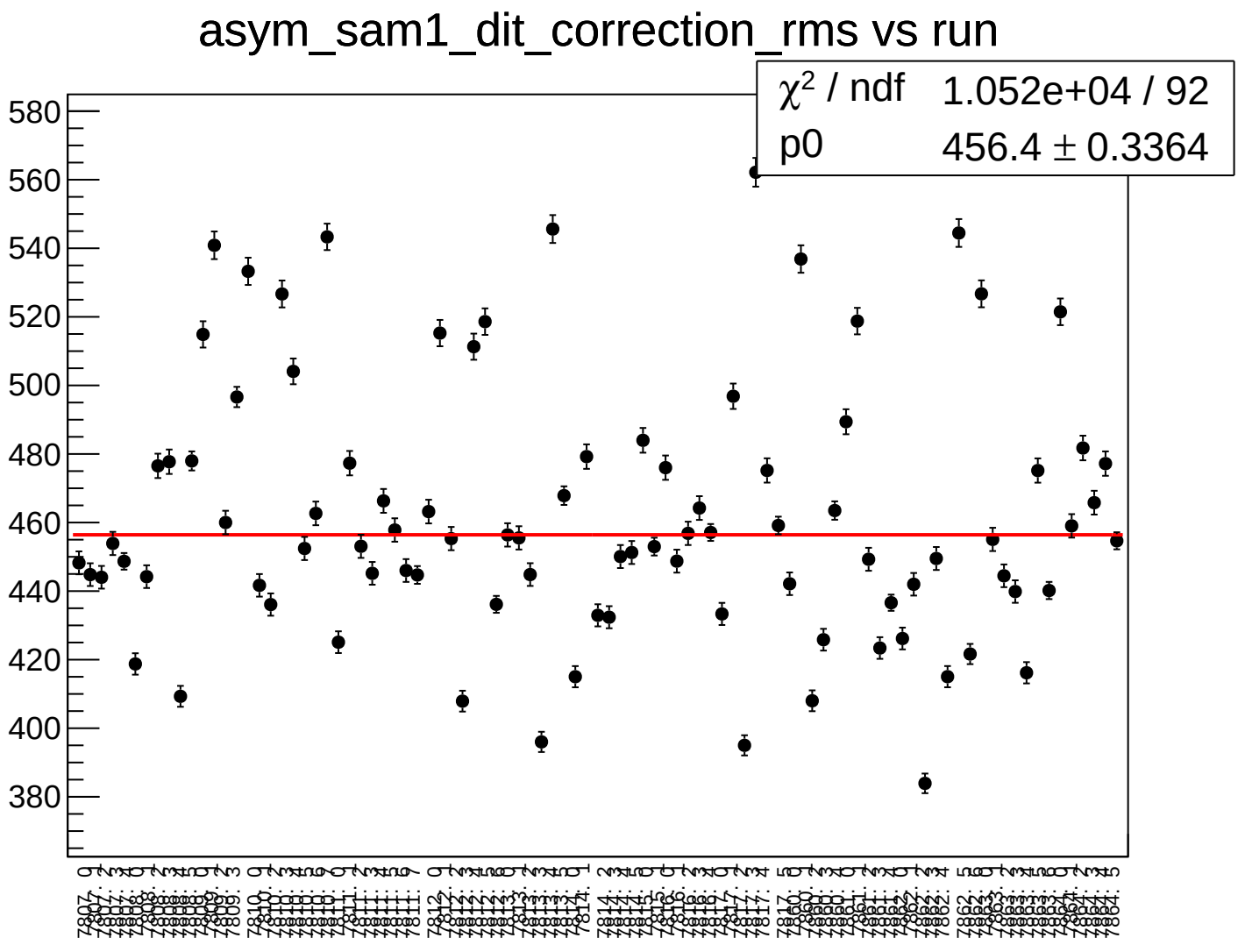

asym_sam1_eigen_cor_correction_rms vs run
χ² / ndf 1.109e+04 / 92
p0 444.4 ± 0.3276
550
500
450
400
350

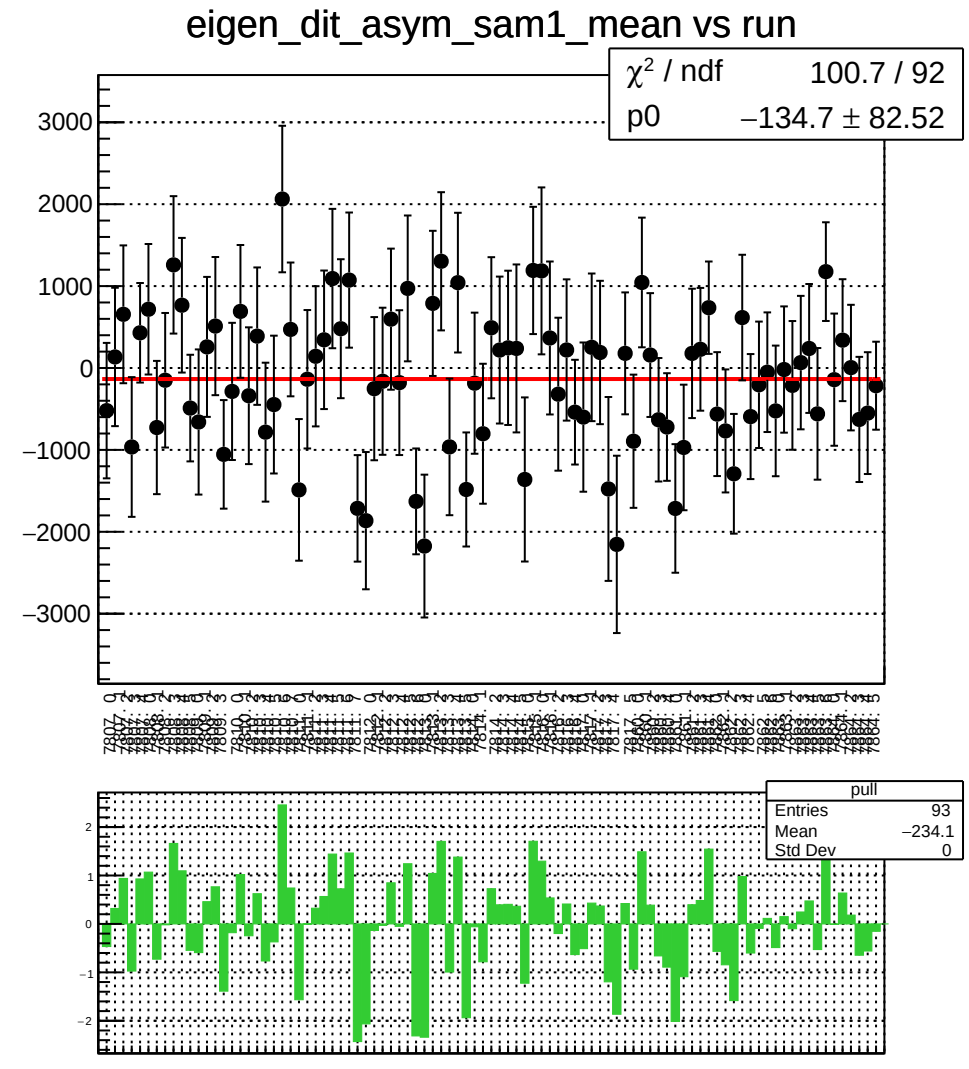

dit_asym_sam1_mean vs run
χ² / ndf 100.7 / 92
p0 −134.7 ± 82.52
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean −234.1
Std Dev 0
2
1
0
−1
−2

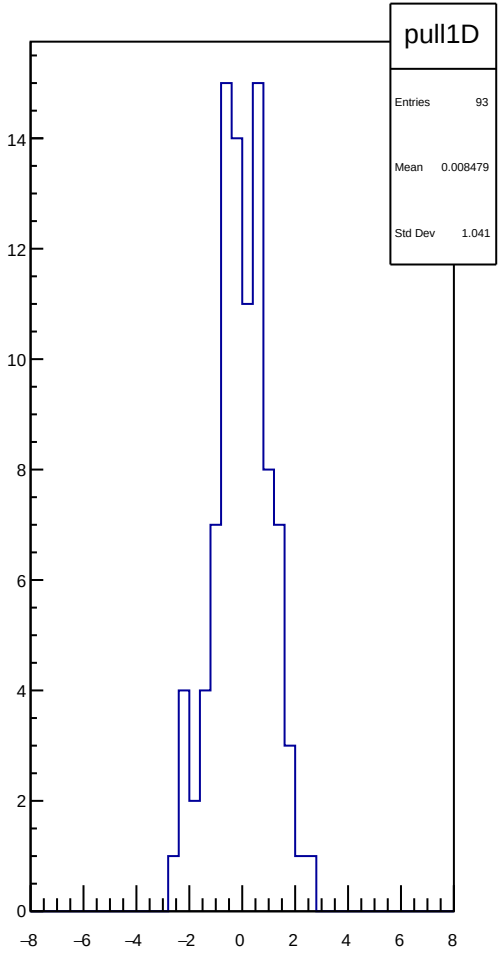

pull1D
Entries 93
Mean 0.008479
Std Dev 1.041
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

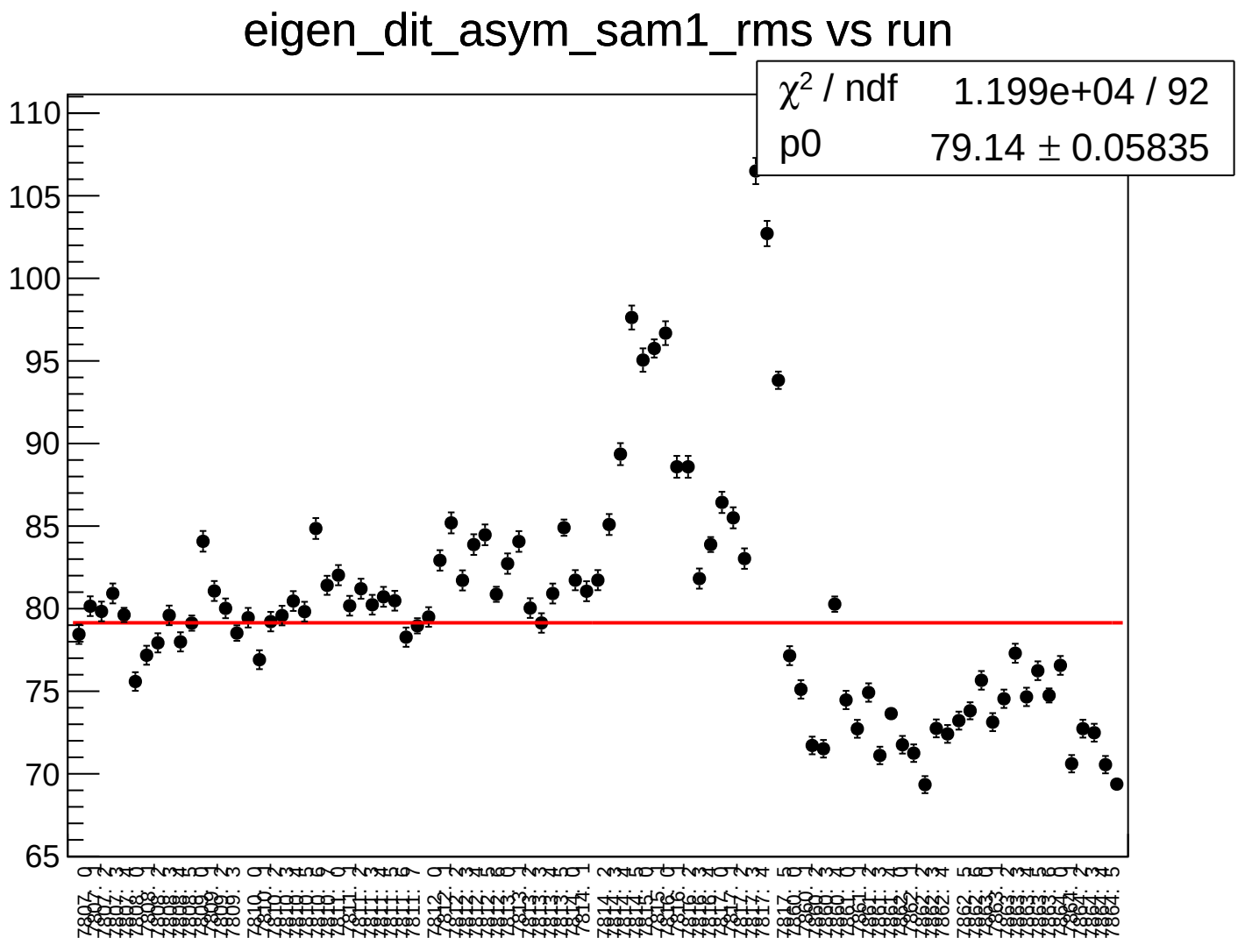

dit_asym_sam1_rms vs run
χ^2 / ndf 1.199e+04 / 92
p0 79.14 ± 0.05835
110
105
100
95
90
85
80
75
70
65

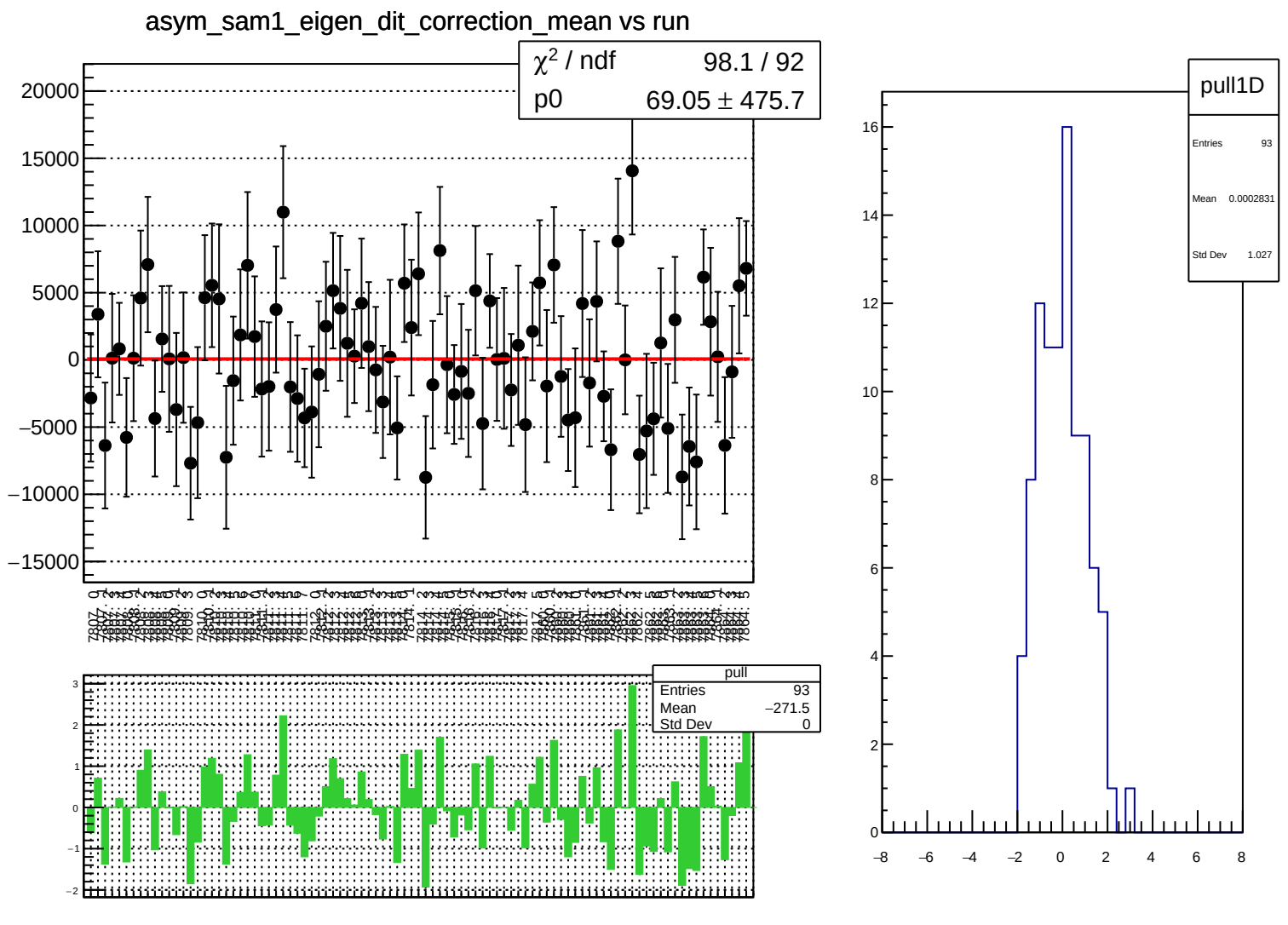

asym_sam1_dit_correction_mean vs run
χ² / ndf 98.1 / 92
p0 69.05 ± 475.7
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean −271.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.000283
Std Dev 1.027
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

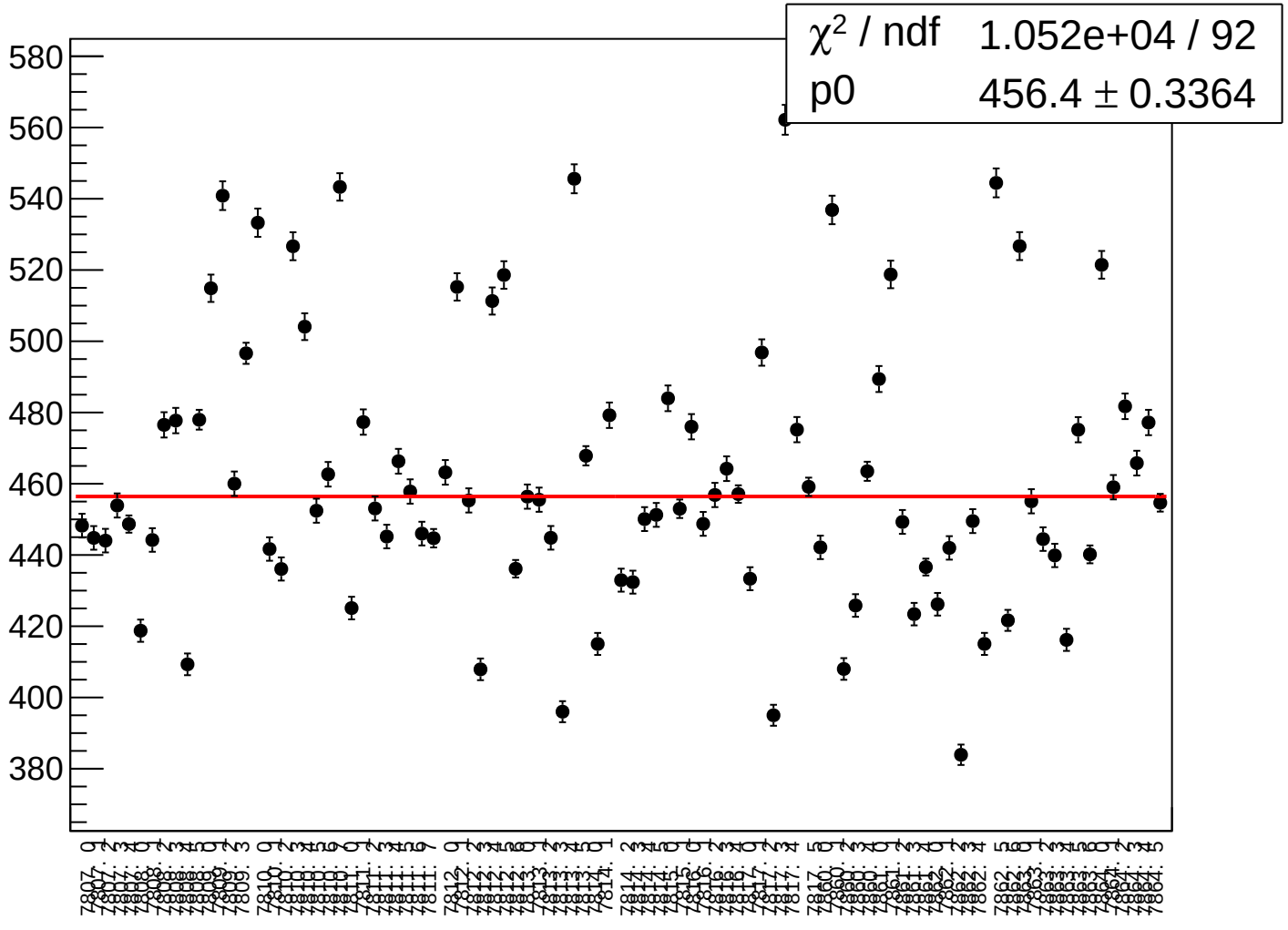

asym_sam1_dit_correction_rms vs run
χ² / ndf 1.052e+04 / 92
p0 456.4 ± 0.3364
580
560
540
520
500
480
460
440
420
400
380

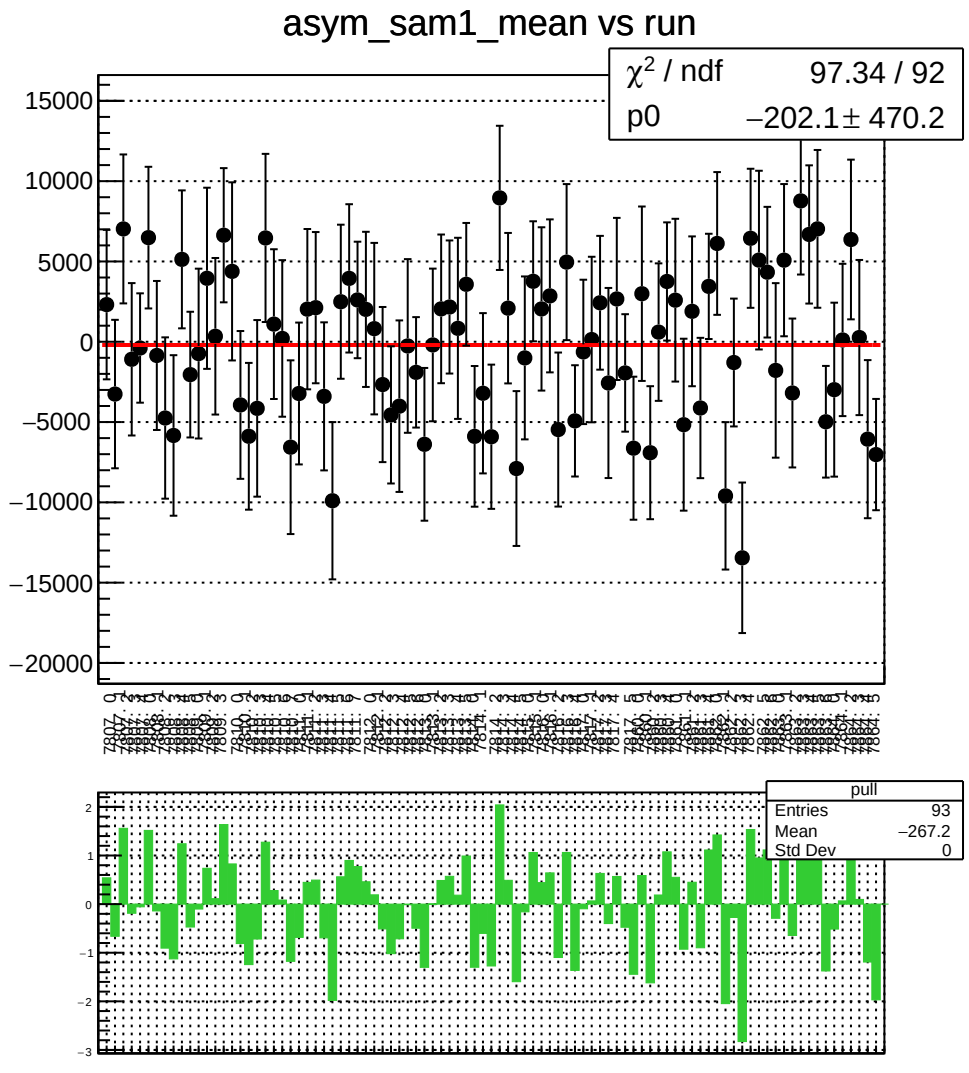

eigen_dit_asym_sam1_mean vs run
χ² / ndf 100.7 / 92
p0 −134.7 ± 82.52
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean −234.1
Std Dev 0
2
1
0
−1
−2

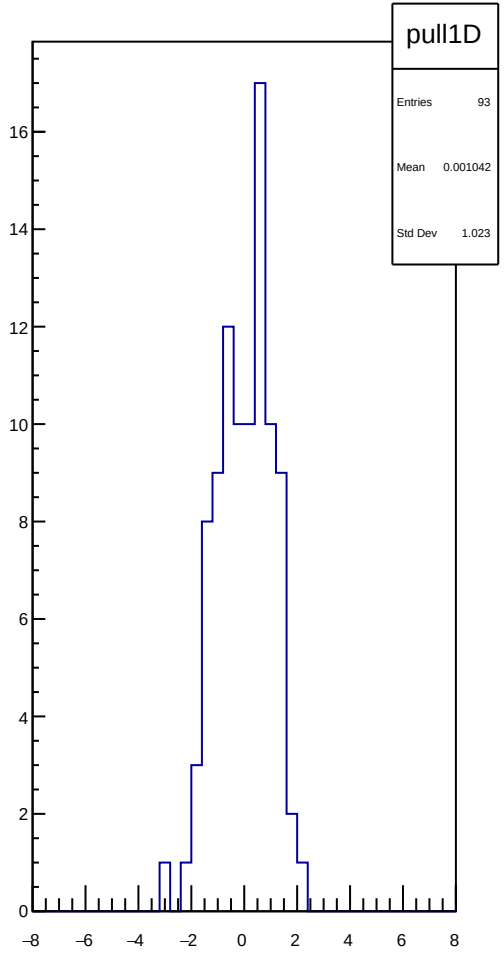

pull1D
Entries 93
Mean 0.008479
Std Dev 1.041
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

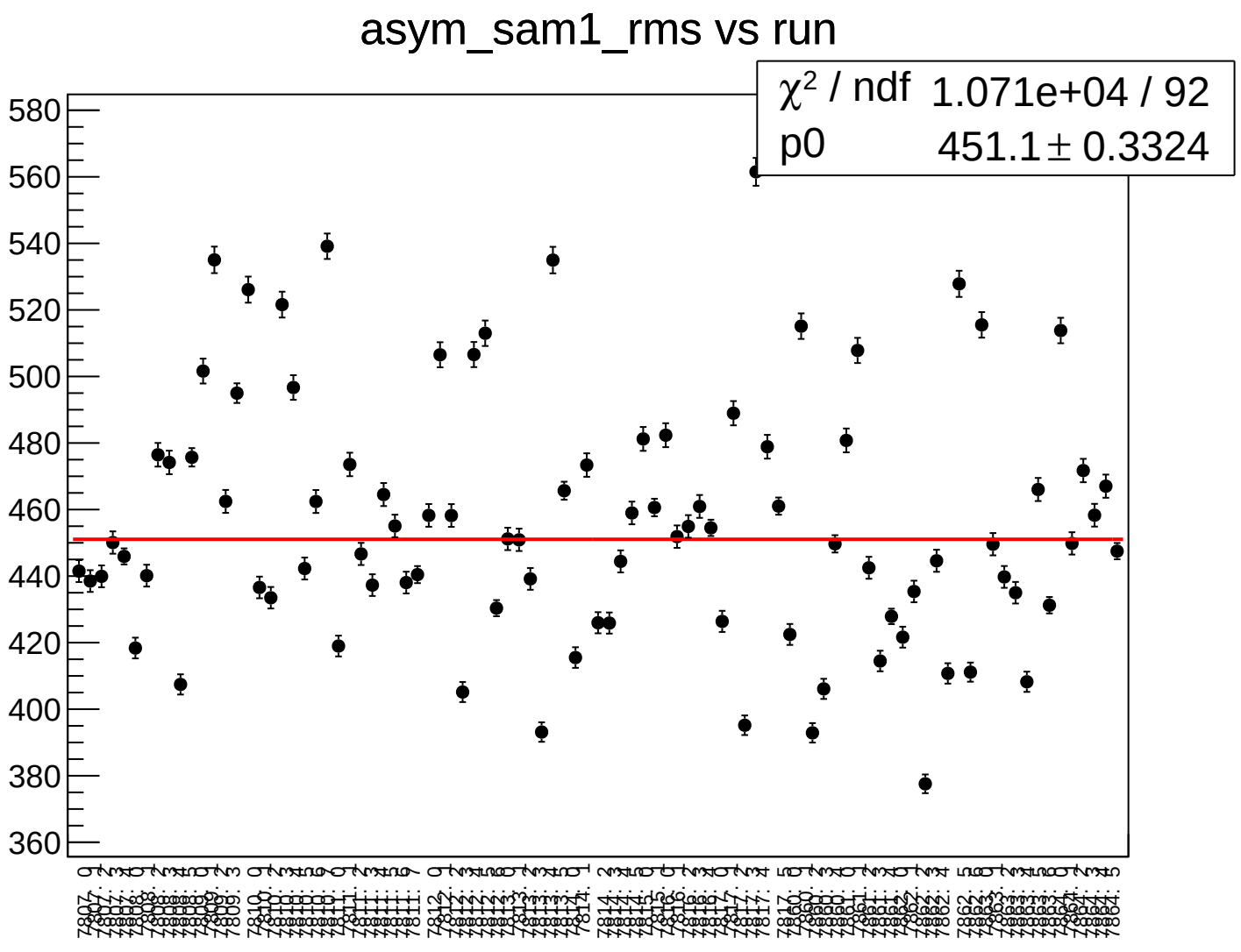

eigen_dit_asym_sam1_rms vs run
χ² / ndf 1.199e+04 / 92
p0 79.14 ± 0.05835
110
105
100
95
90
85
80
75
70
65

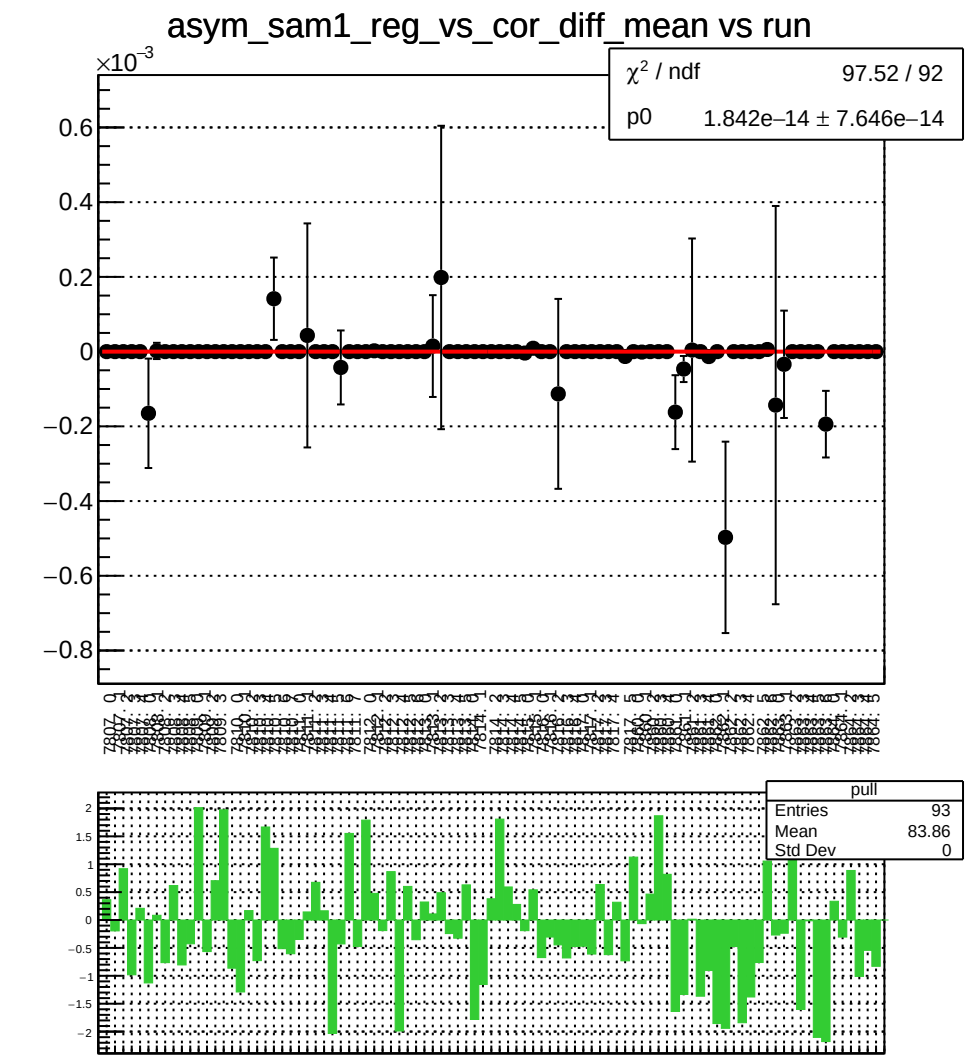

asym_sam1_eigen_dit_correction_mean vs run
χ² / ndf 98.1 / 92
p0 69.05 ± 475.7
pull
Entries 93
Mean −271.5
Std Dev 0
pull1D
Entries 93
Mean 0.0002831
Std Dev 1.027

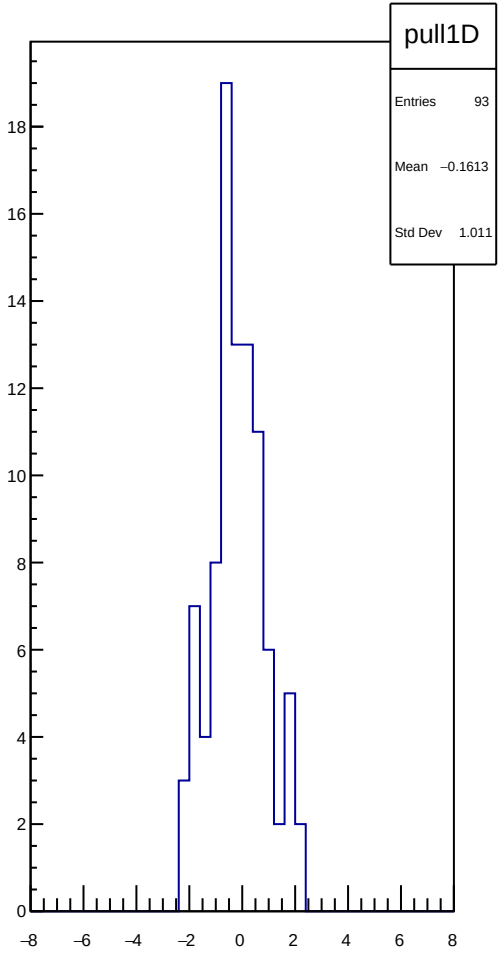

asym_sam1_eigen_dit_correction_rms vs run
χ² / ndf 1.052e+04 / 92
p0 456.4 ± 0.3364
580
560
540
520
500
480
460
440
420
400
380

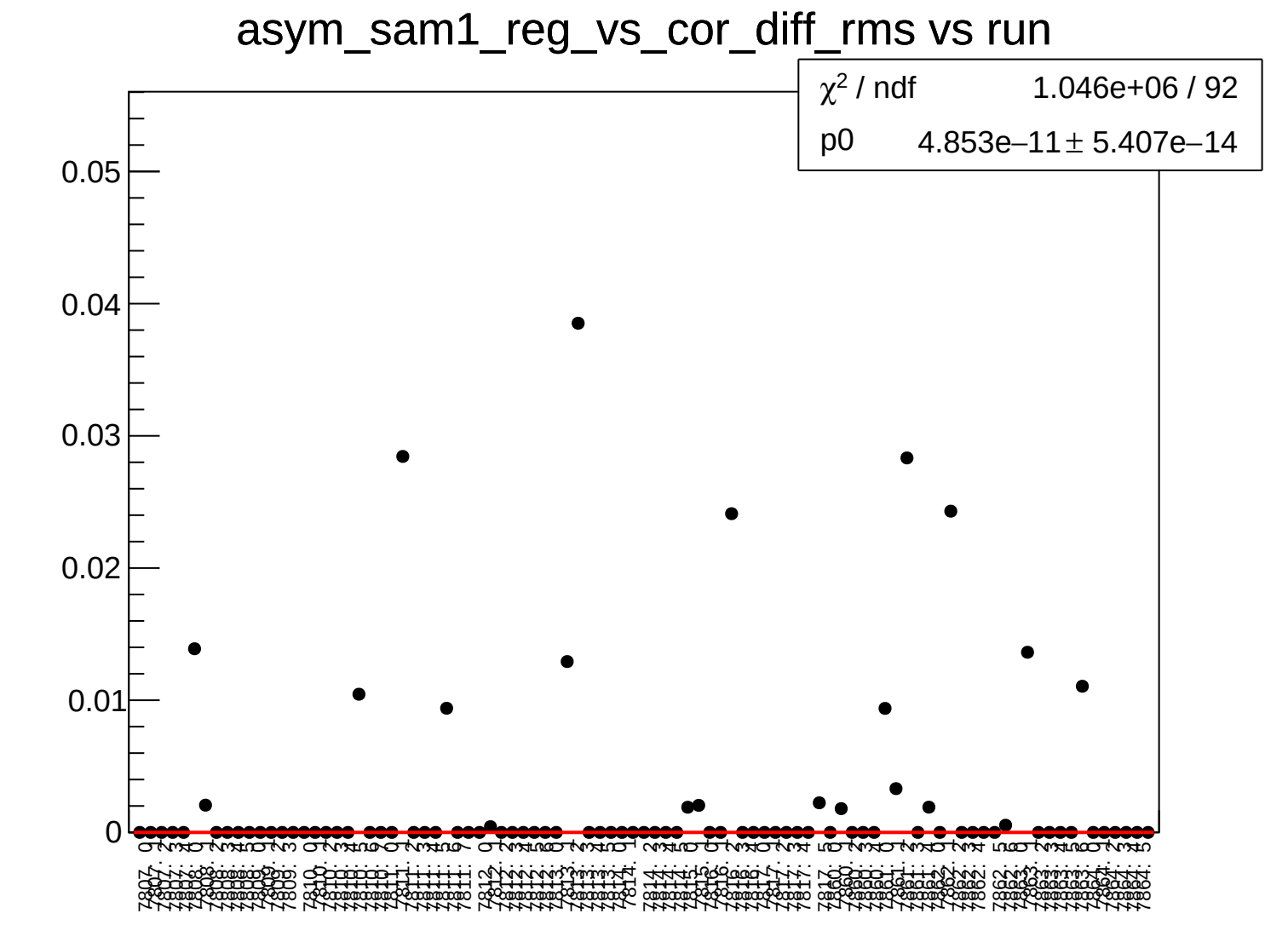

asym_sam1_mean vs run
χ² / ndf 97.34 / 92
p0 −202.1± 470.2
pull
Entries 93
Mean −267.2
Std Dev 0

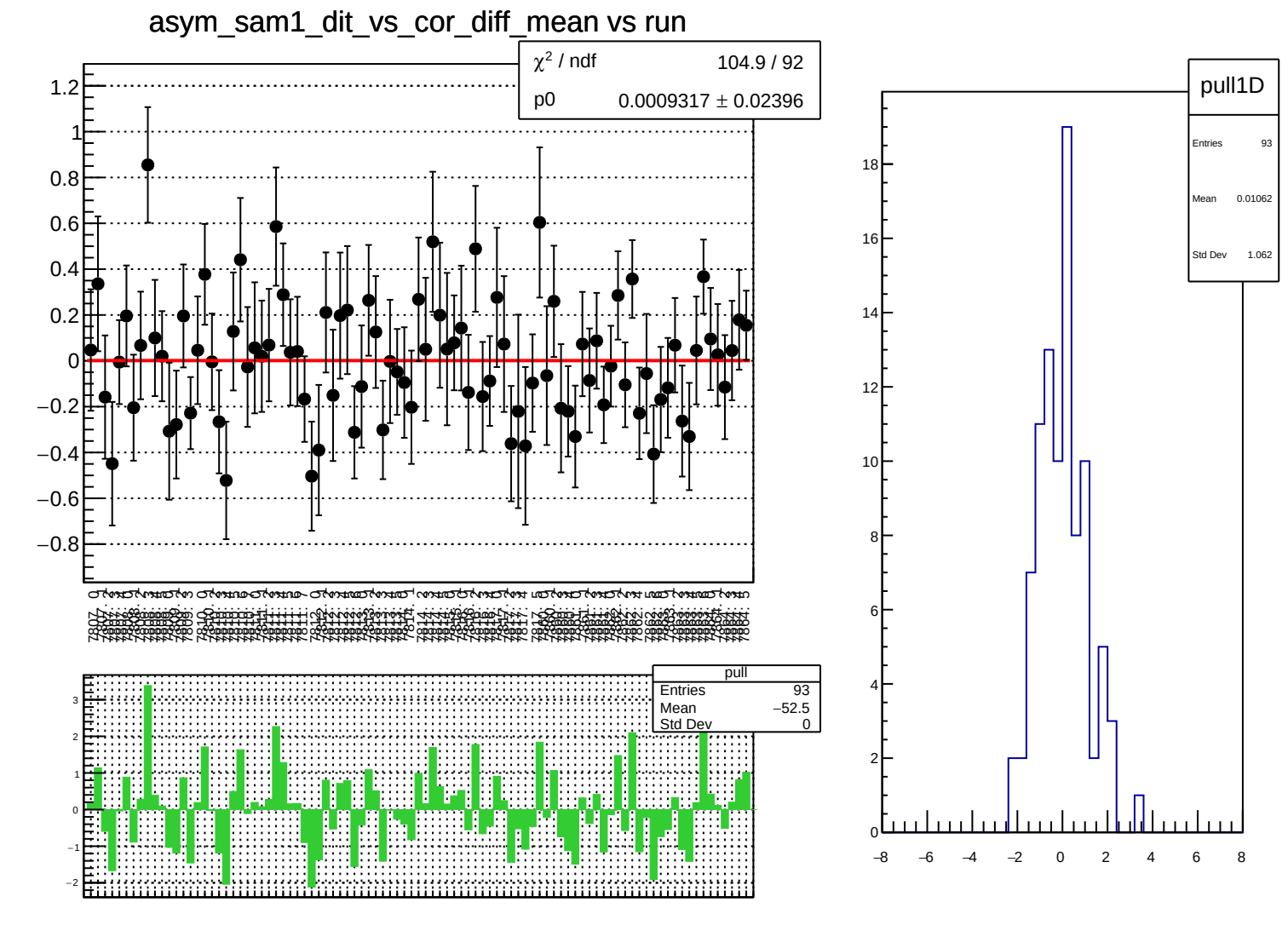

pull1D
Entries 93
Mean 0.001042
Std Dev 1.023

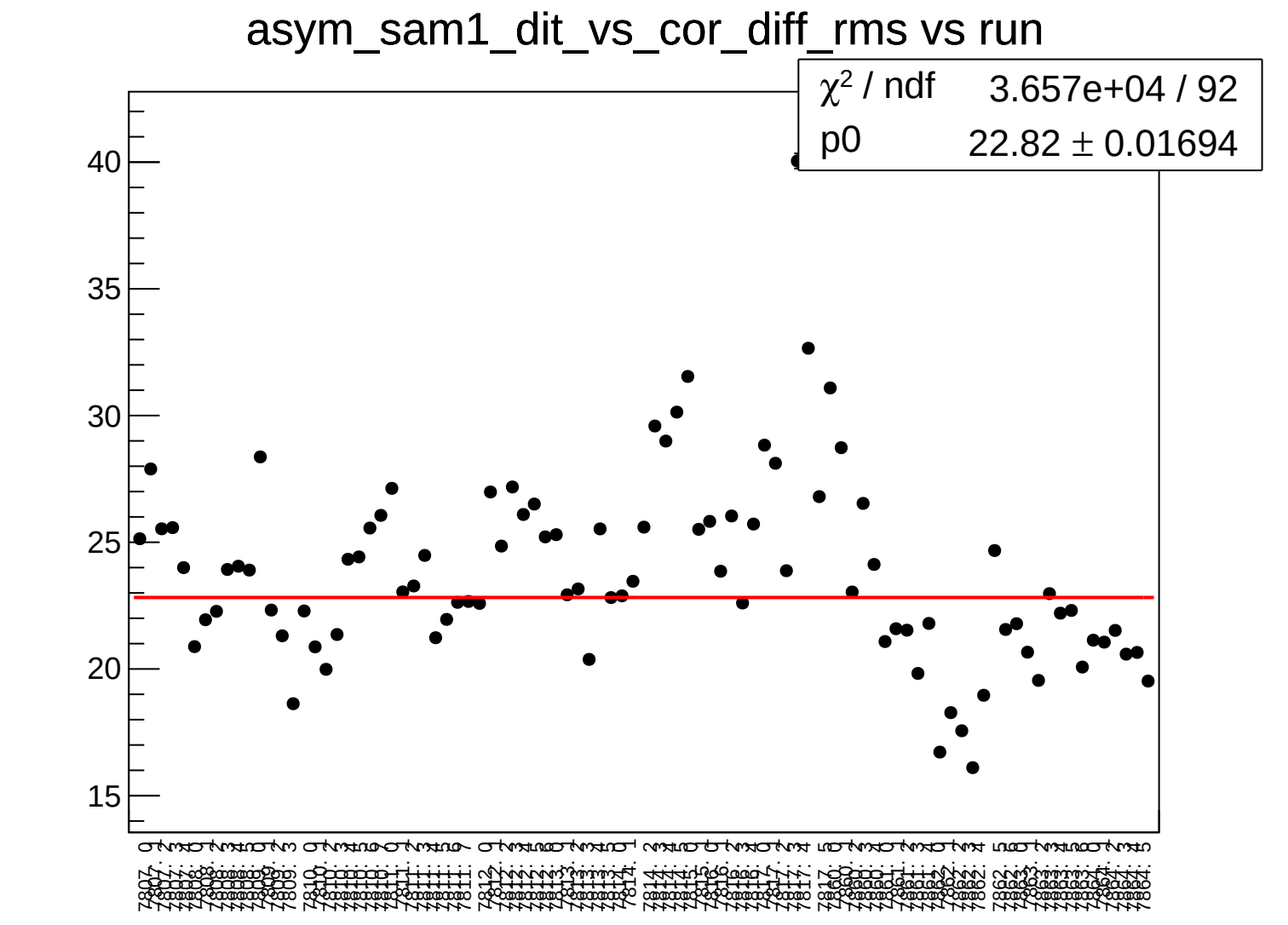

asym_sam1_rms vs run
χ² / ndf 1.071e+04 / 92
p0 451.1 ± 0.3324
580
560
540
520
500
480
460
440
420
400
380
360

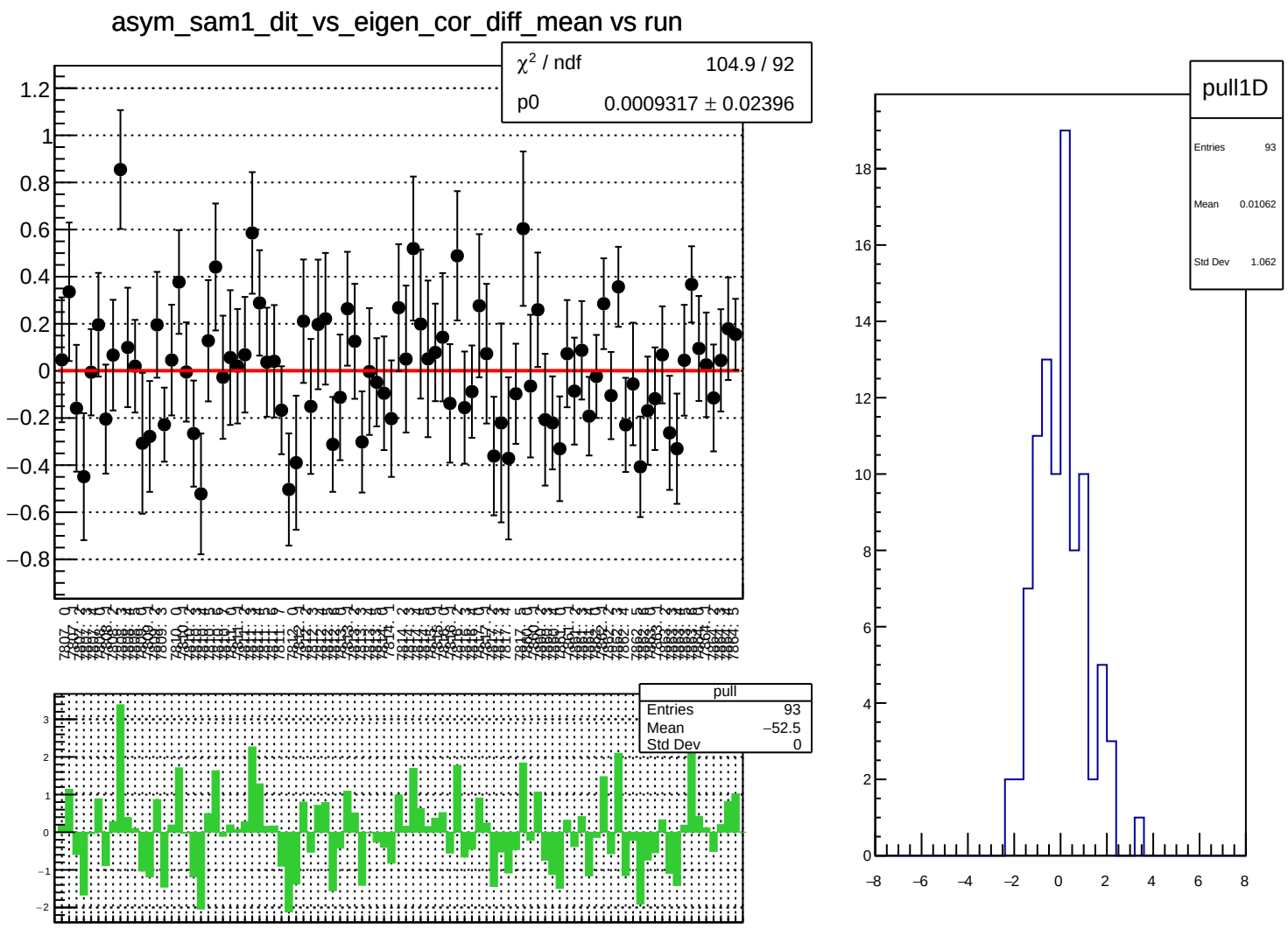

asym_sam1_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 97.52 / 92
p0 1.842e−14 ± 7.646e−14
pull
Entries 93
Mean 83.86
Std Dev 0

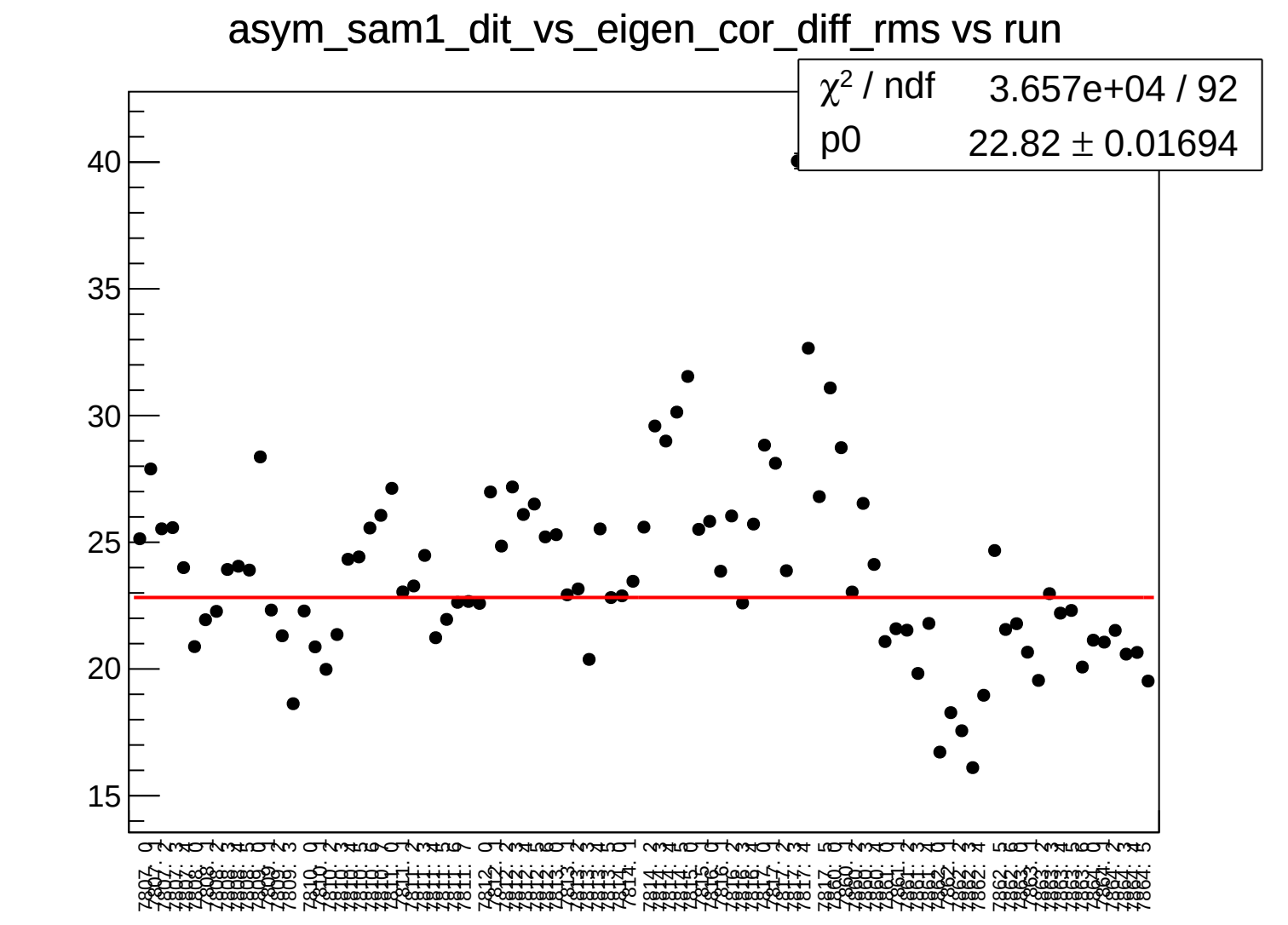

pull1D
Entries 93
Mean −0.1613
Std Dev 1.011

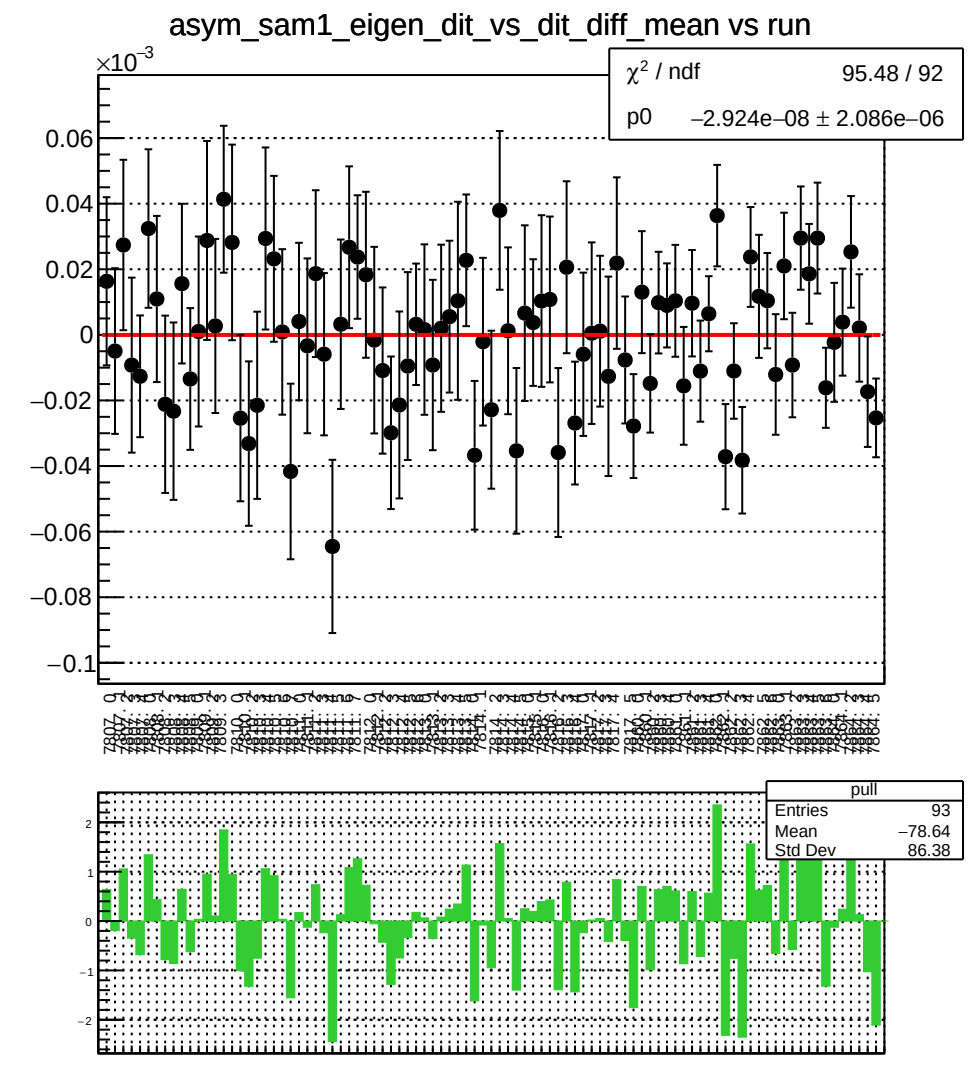

asym_sam1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.046e+06 / 92
p0 4.853e−11 ± 5.407e−14
0.05
0.04
0.03
0.02
0.01
0

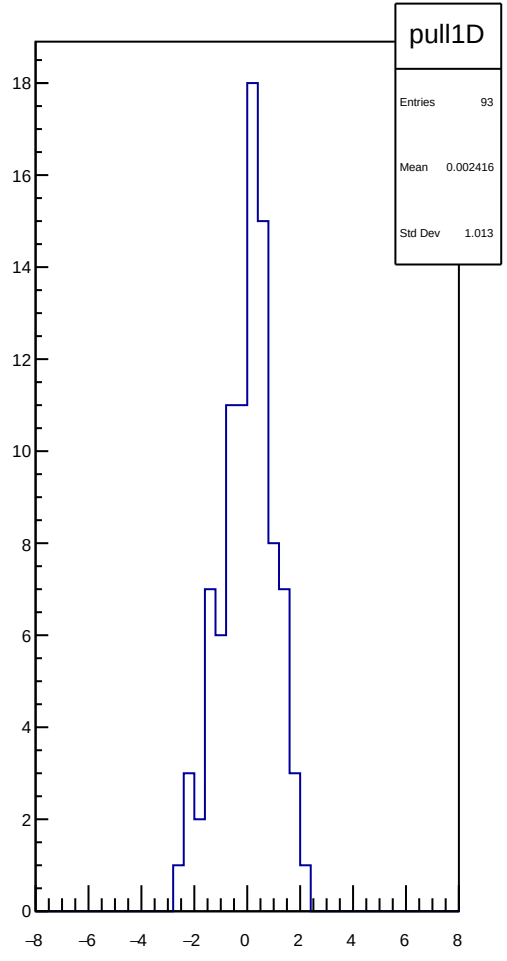

asym_sam1_dit_vs_cor_diff_mean vs run
χ² / ndf 104.9 / 92
p0 0.0009317 ± 0.02396
pull
Entries 93
Mean −52.5
Std Dev 0
pull1D
Entries 93
Mean 0.01062
Std Dev 1.062

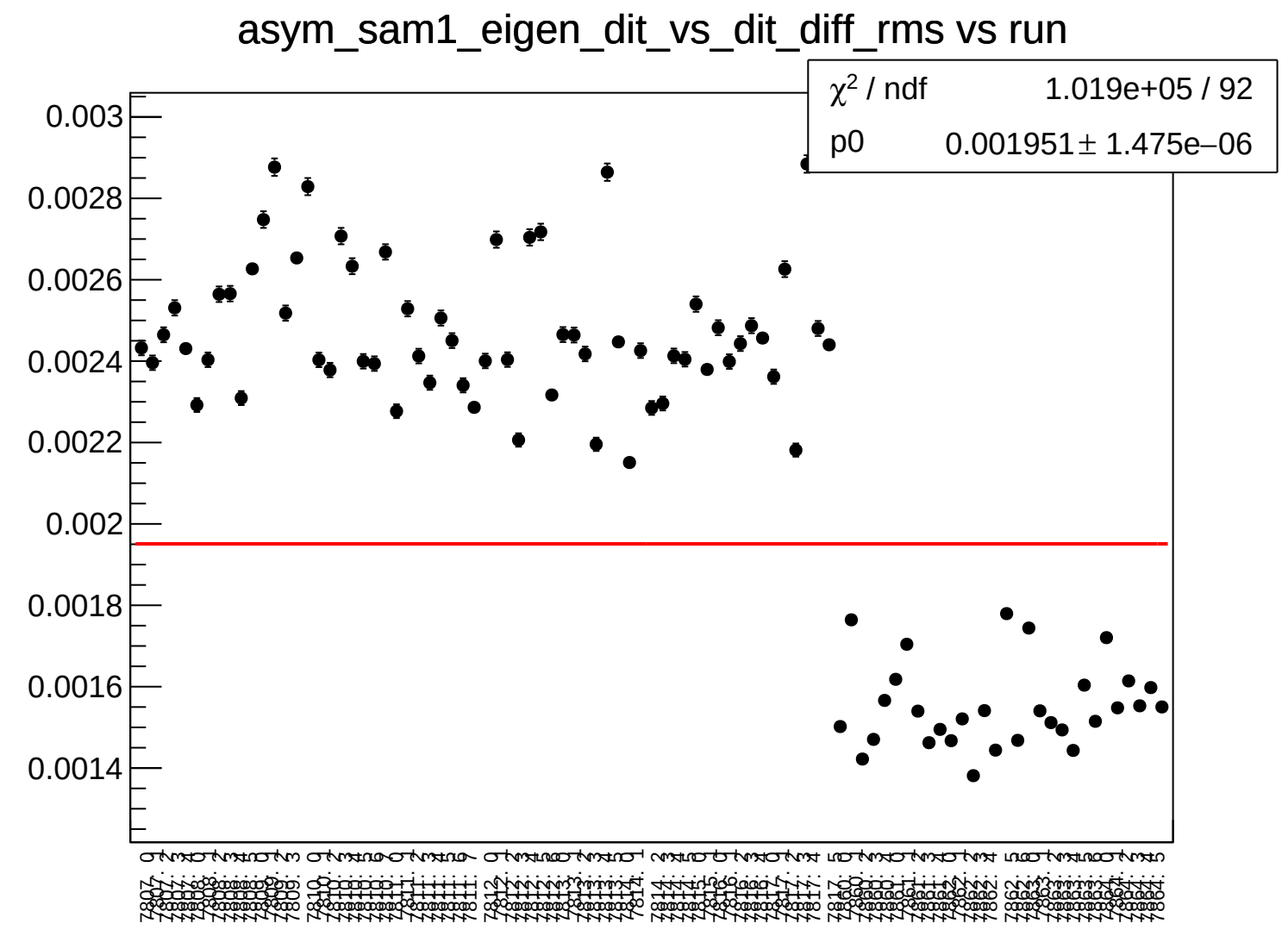

asym_sam1_dit_vs_cor_diff_rms vs run
χ² / ndf 3.657e+04 / 92
p0 22.82 ± 0.01694
40
35
30
25
20
15

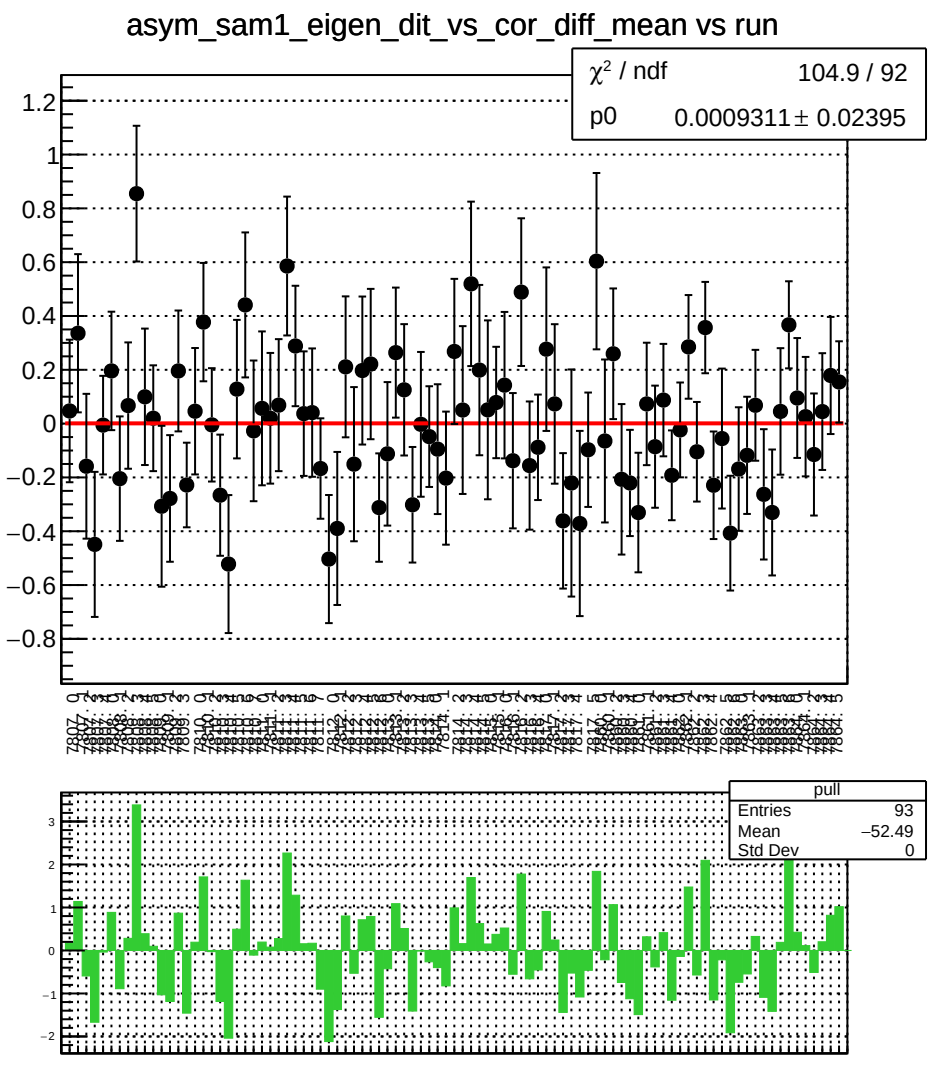

asym_sam1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.9 / 92
p0 0.0009317 ± 0.02396
pull
Entries 93
Mean −52.5
Std Dev 0
pull1D
Entries 93
Mean 0.01062
Std Dev 1.062

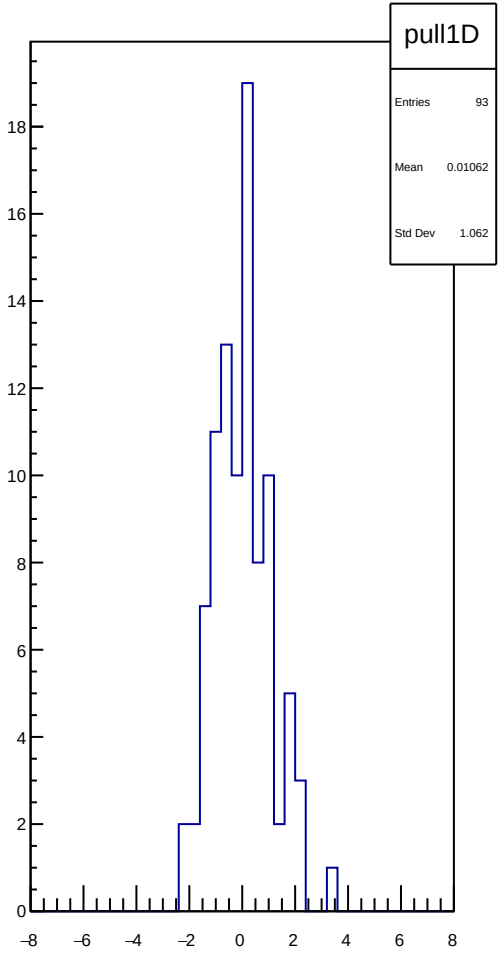

asym_sam1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.657e+04 / 92
p0 22.82 ± 0.01694
40
35
30
25
20
15

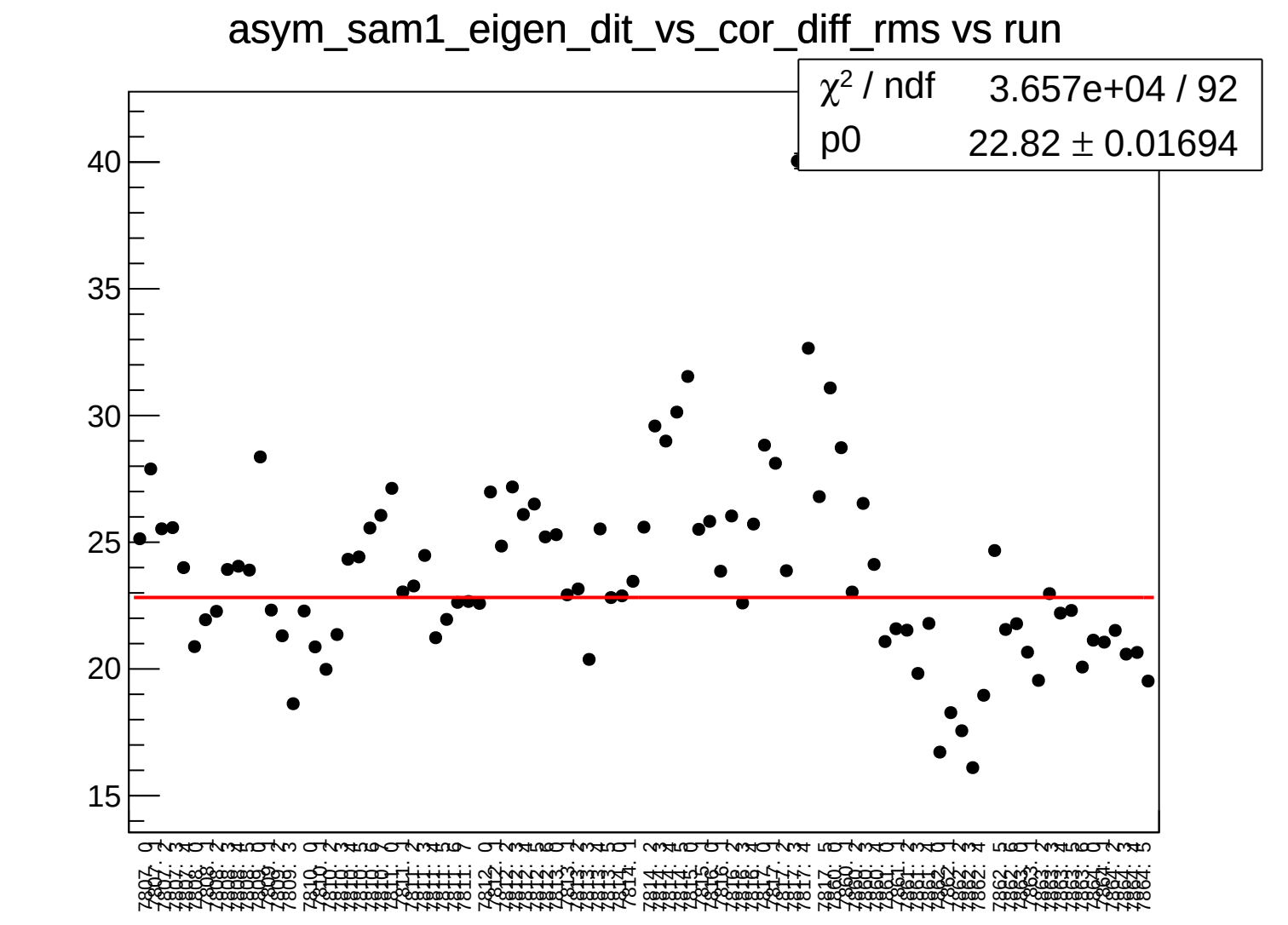

asym_sam1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 95.48 / 92
p0 −2.924e−08 ± 2.086e−06
pull
Entries 93
Mean −78.64
Std Dev 86.38

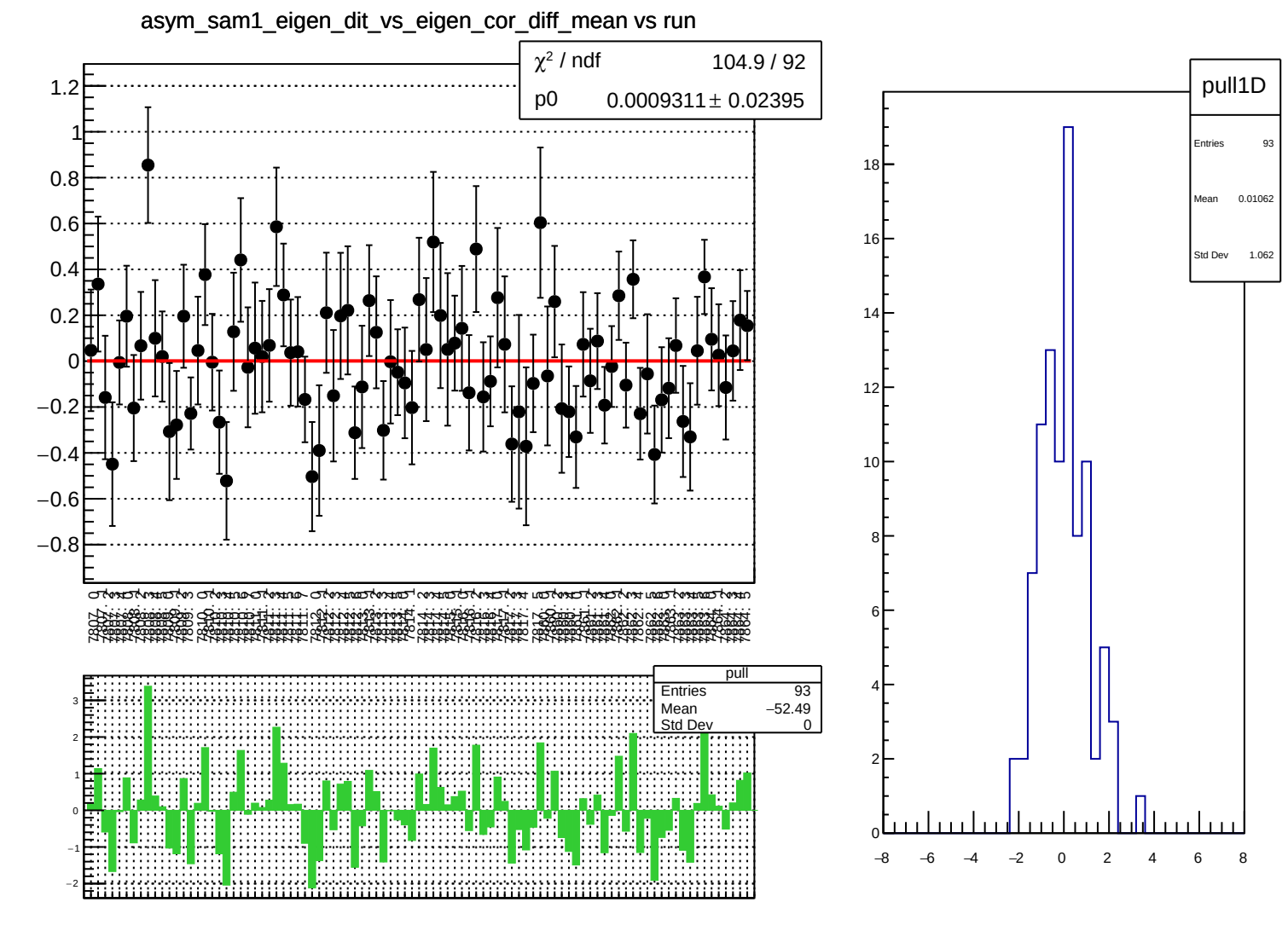

pull1D
Entries 93
Mean 0.002416
Std Dev 1.013

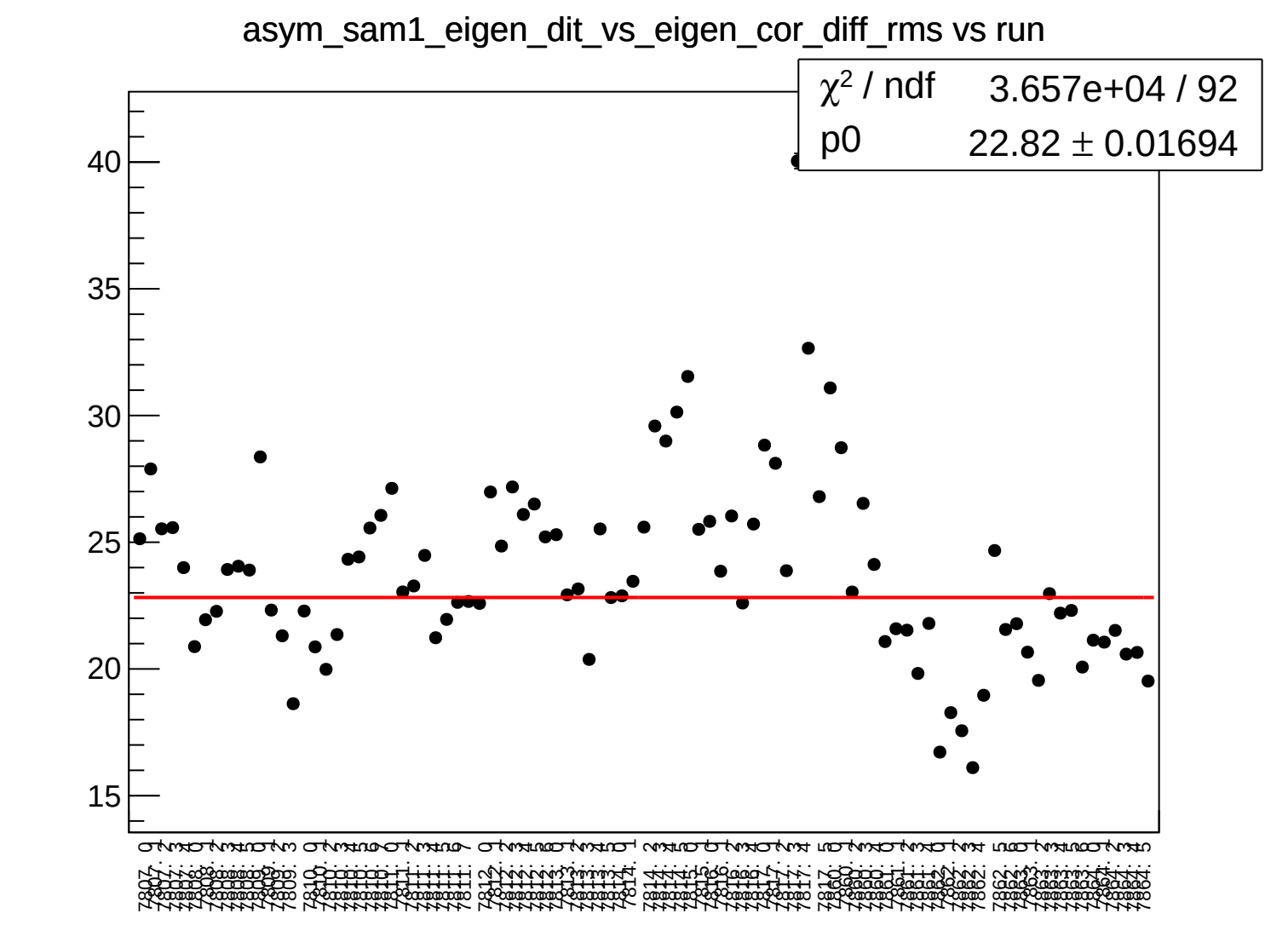

asym_sam1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.019e+05 / 92
p0 0.001951 ± 1.475e−06
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014

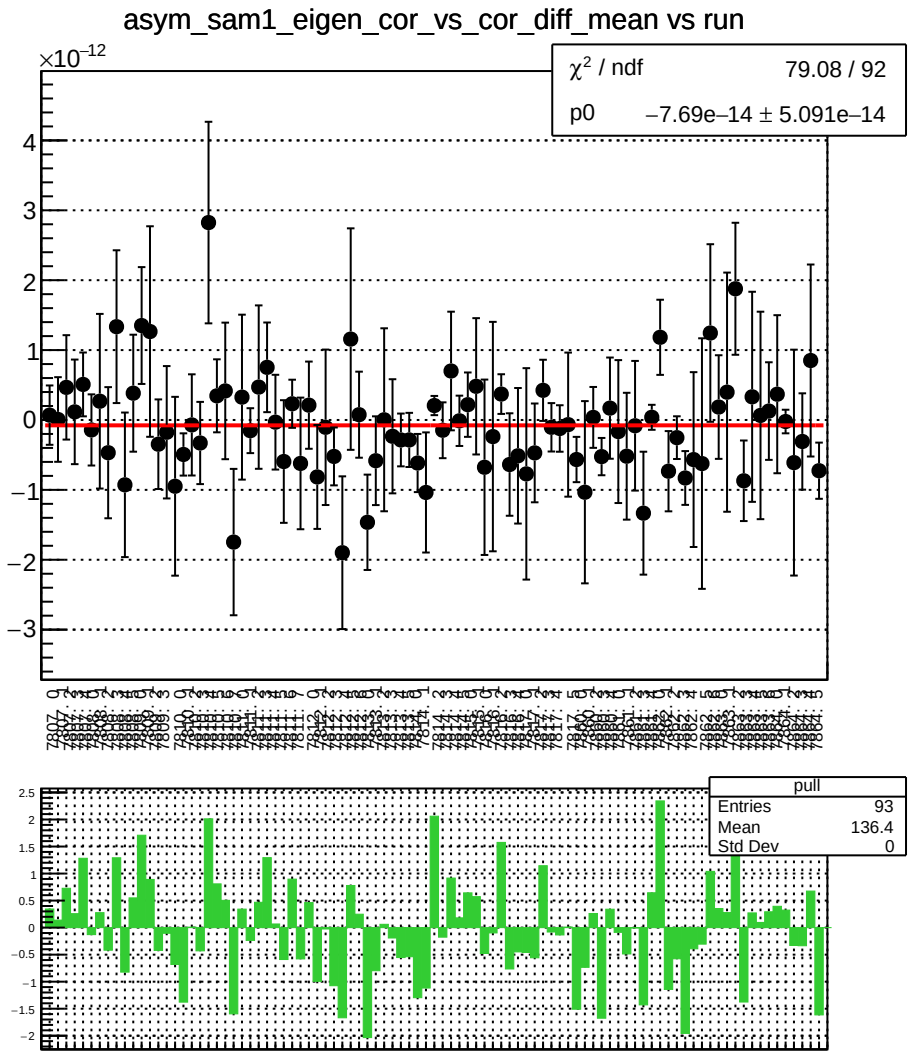

asym_sam1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 104.9 / 92
p0 0.0009311 ± 0.02395
pull
Entries 93
Mean −52.49
Std Dev 0

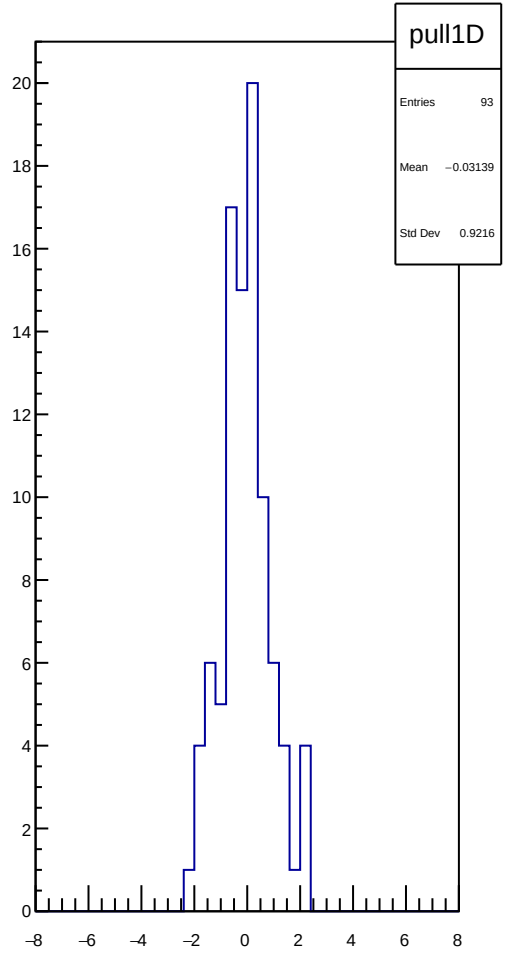

pull1D
Entries 93
Mean 0.01062
Std Dev 1.062

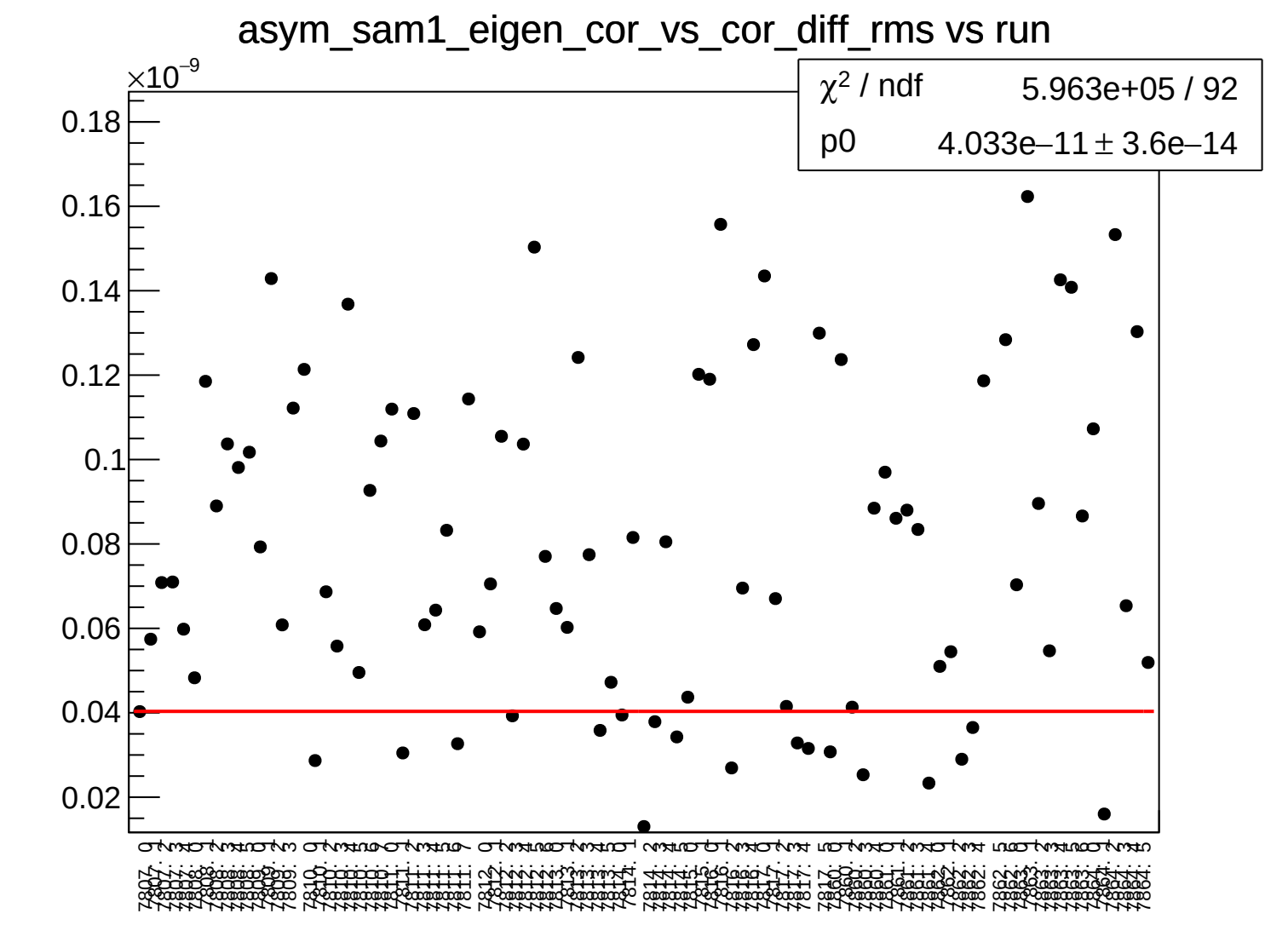

asym_sam1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.657e+04 / 92
p0 22.82 ± 0.01694
40
35
30
25
20
15

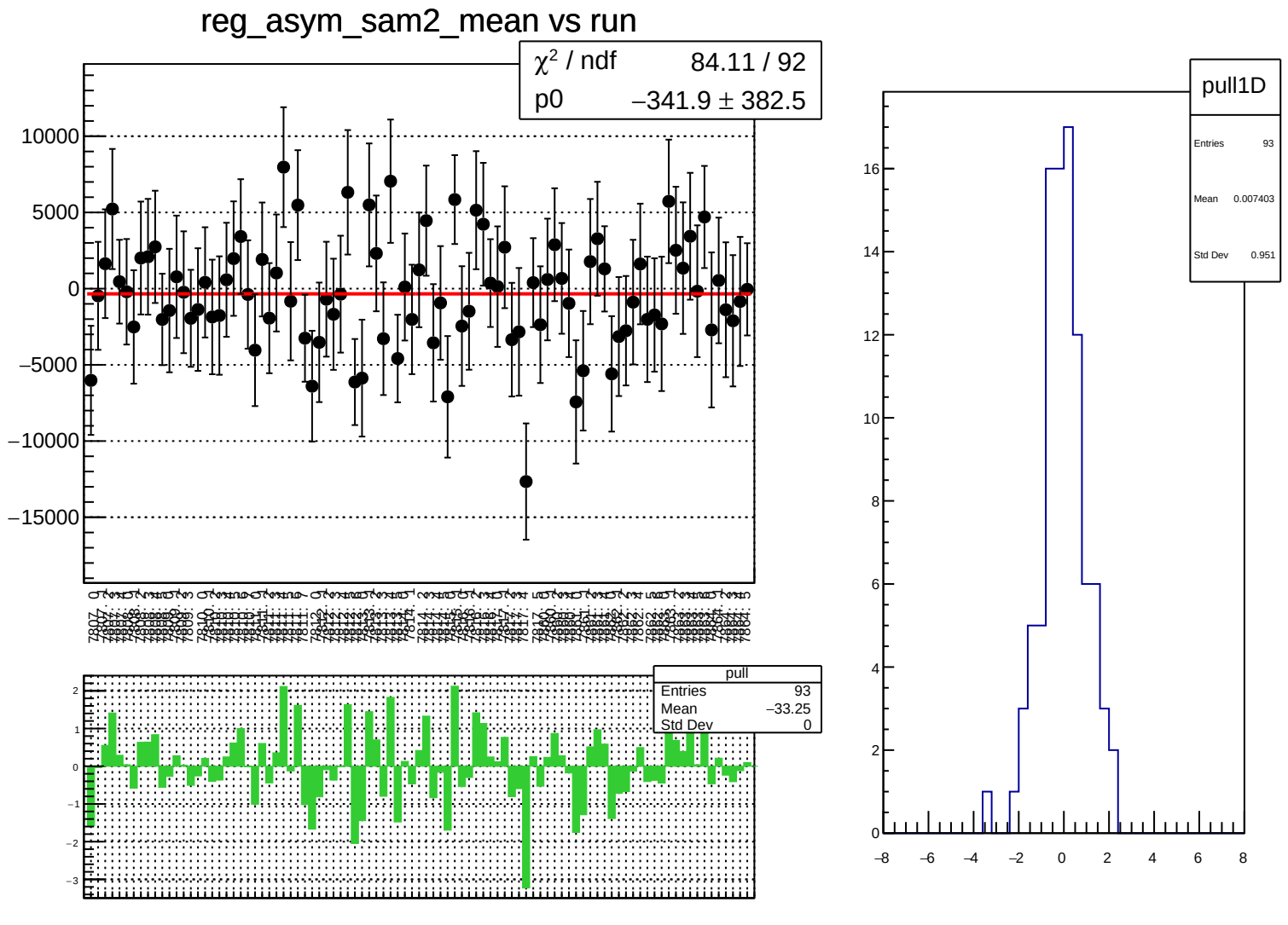

asym_sam1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.9 / 92
p0 0.0009311 ± 0.02395
pull
Entries 93
Mean −52.49
Std Dev 0
pull1D
Entries 93
Mean 0.01062
Std Dev 1.062

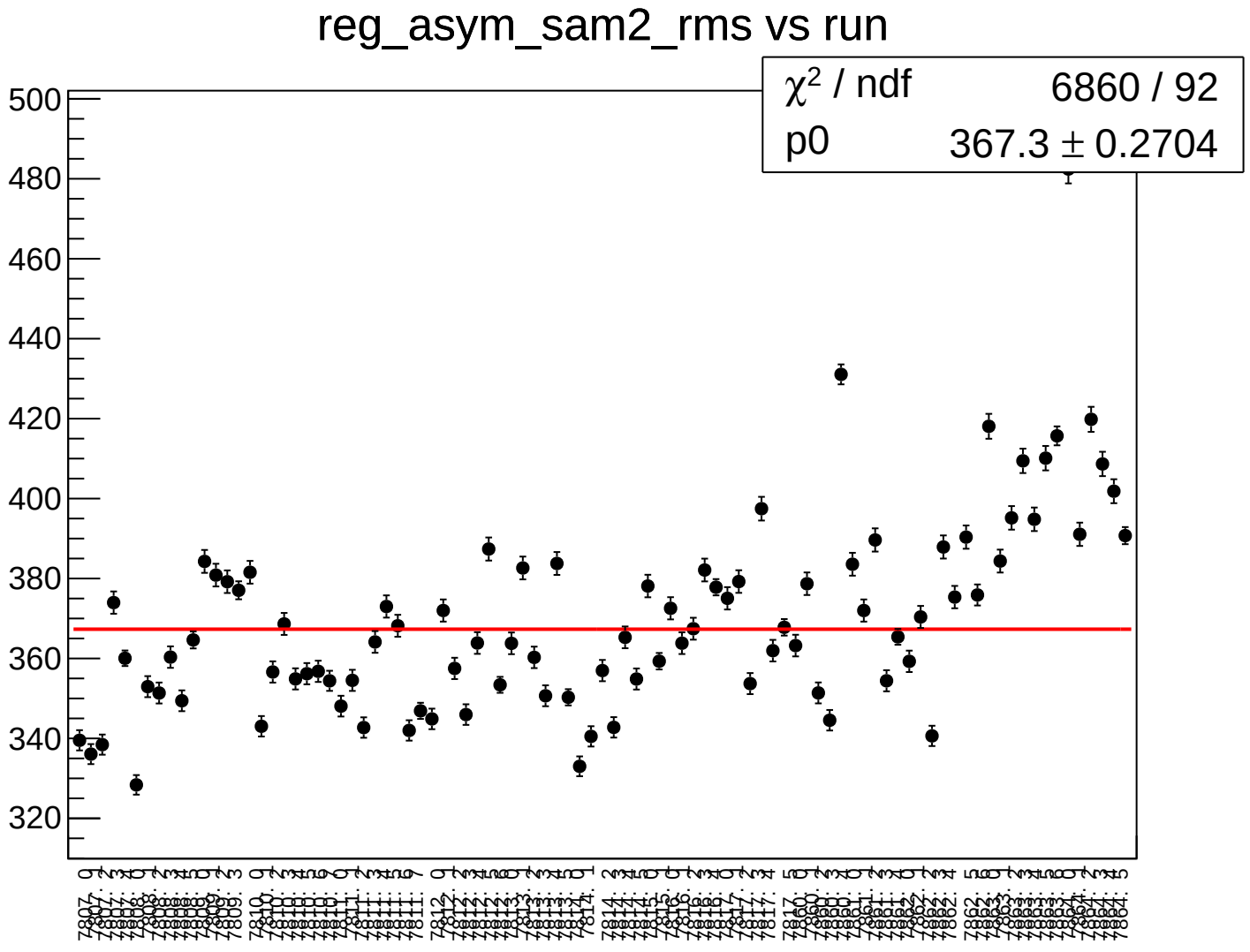

asym_sam1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.657e+04 / 92
p0 22.82 ± 0.01694
40
35
30
25
20
15

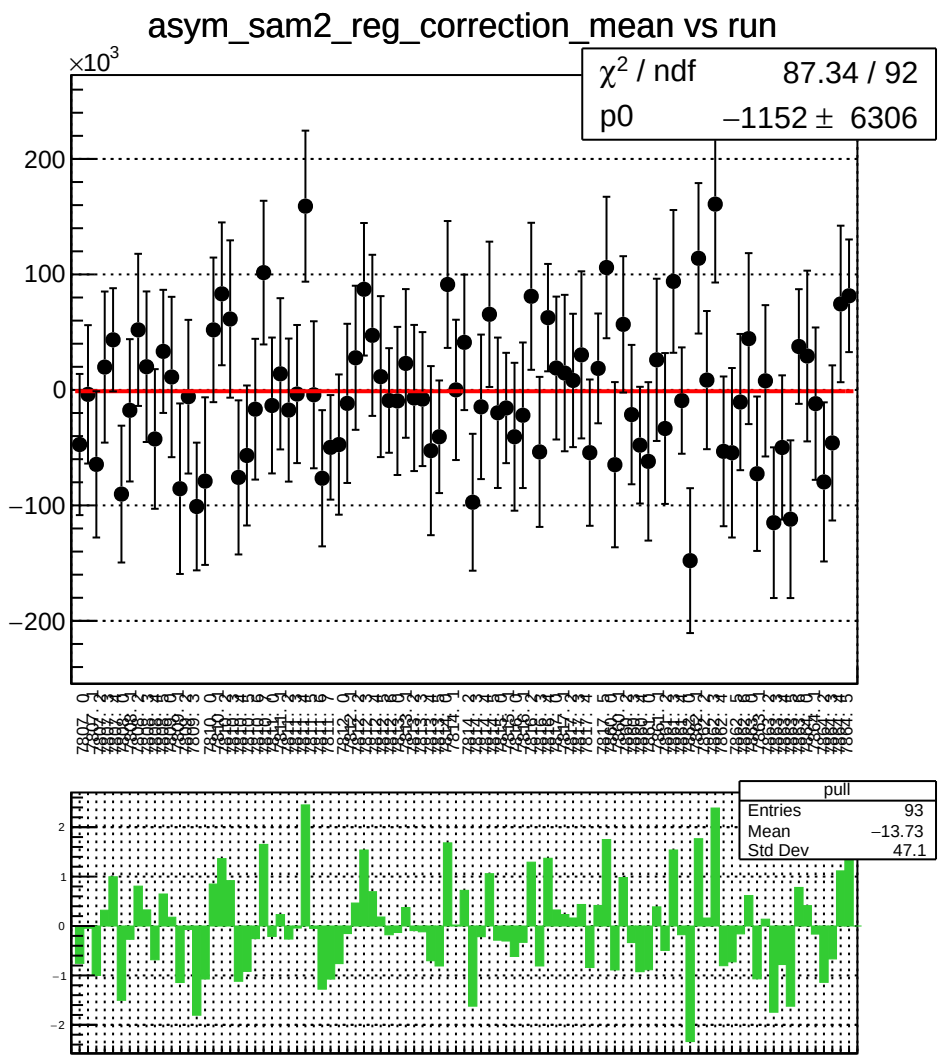

asym_sam1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.08 / 92
p0 −7.69e−14 ± 5.091e−14
pull
Entries 93
Mean 136.4
Std Dev 0

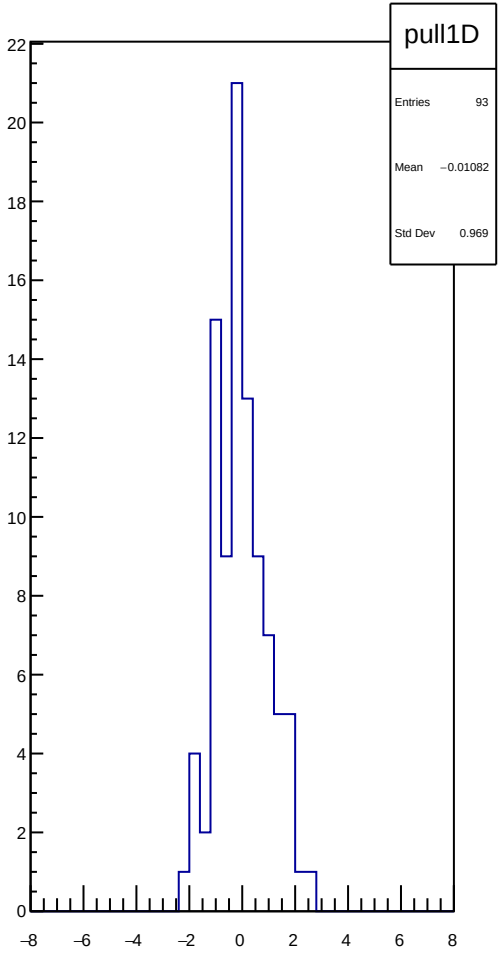

pull1D
Entries 93
Mean −0.03139
Std Dev 0.9216

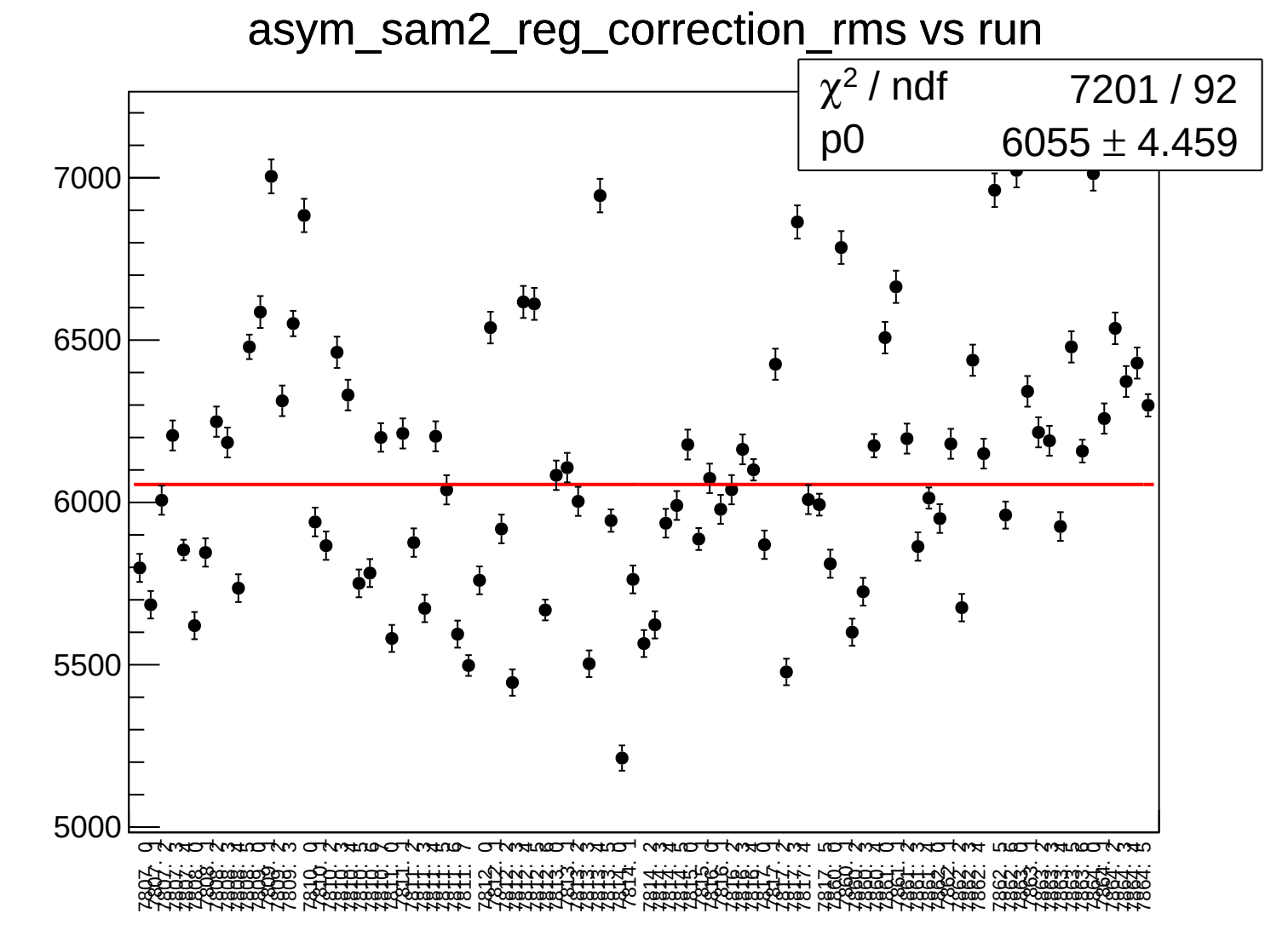

asym_sam1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.963e+05 / 92
p0 4.033e−11 ± 3.6e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

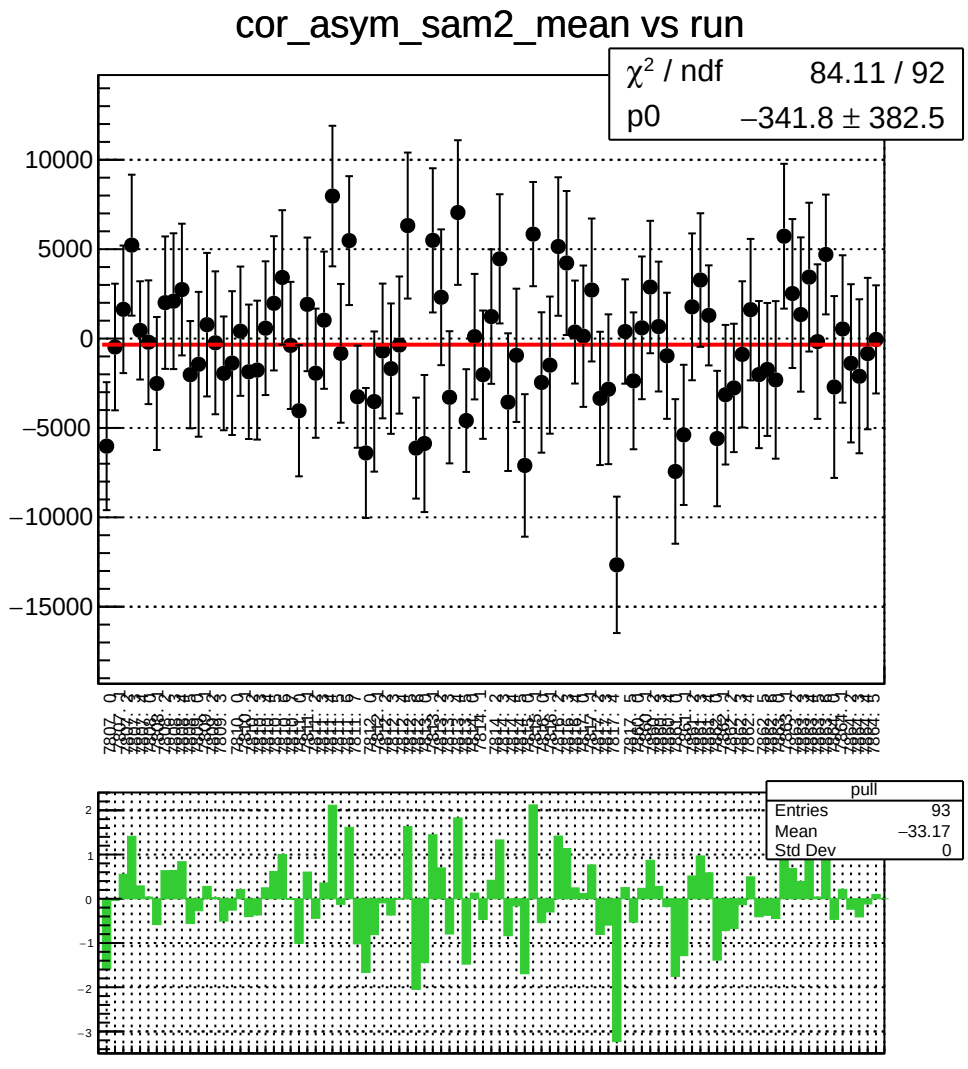

reg_asym_sam2_mean vs run
χ² / ndf 84.11 / 92
p0 −341.9 ± 382.5
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean −33.25
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.007403
Std Dev 0.951
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

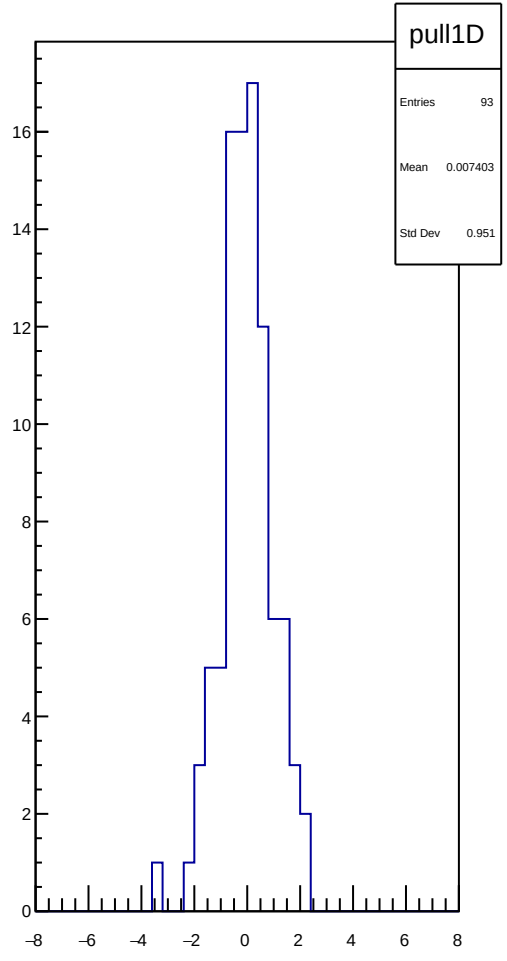

reg_asym_sam2_rms vs run
χ² / ndf 6860 / 92
p0 367.3 ± 0.2704
500
480
460
440
420
400
380
360
340
320

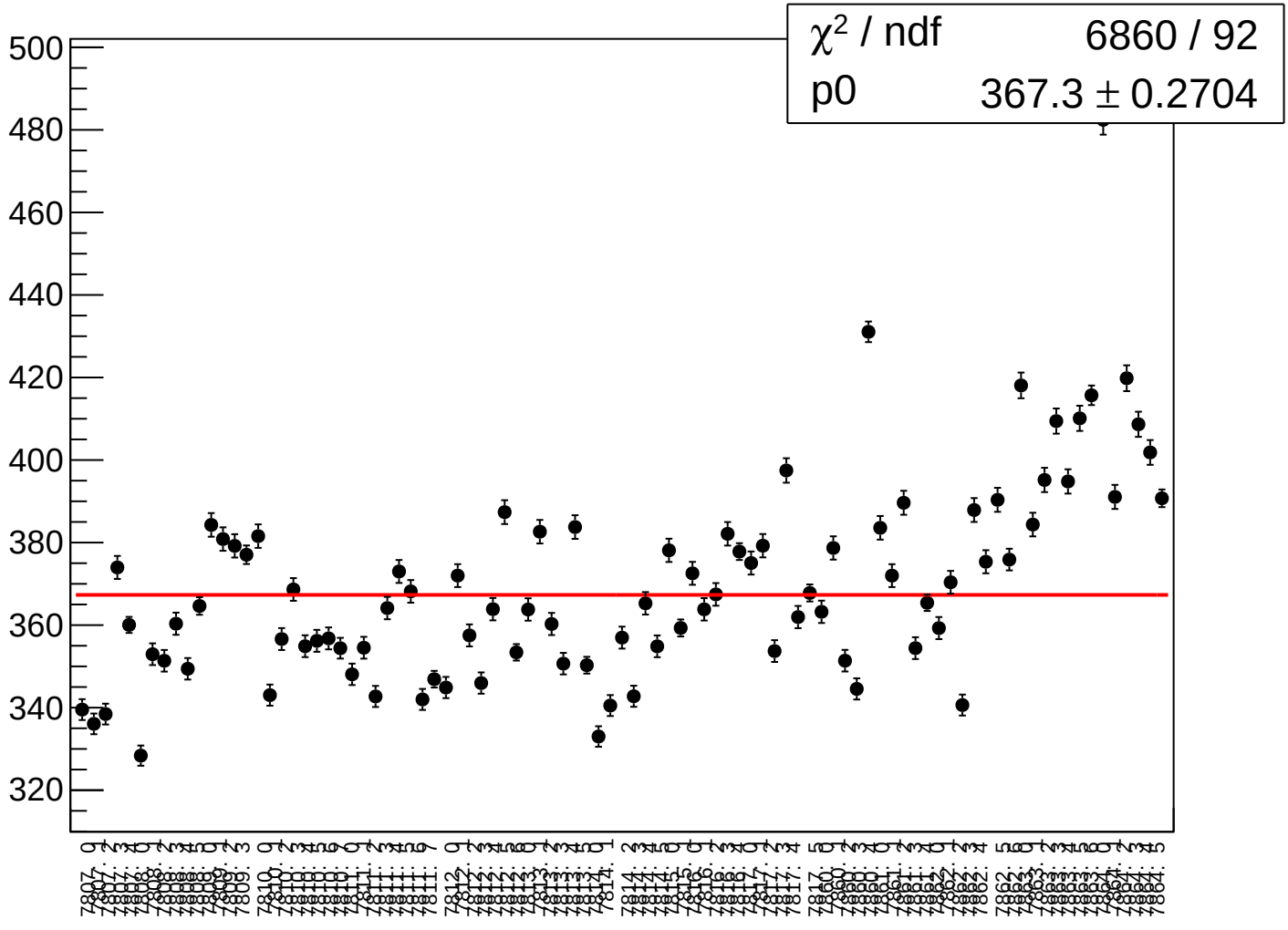

asym_sam2_reg_correction_mean vs run
×10^3
χ² / ndf 87.34 / 92
p0 −1152 ± 6306
200
100
0
−100
−200
pull
Entries 93
Mean −13.73
Std Dev 47.1
2
1
0
−1
−2

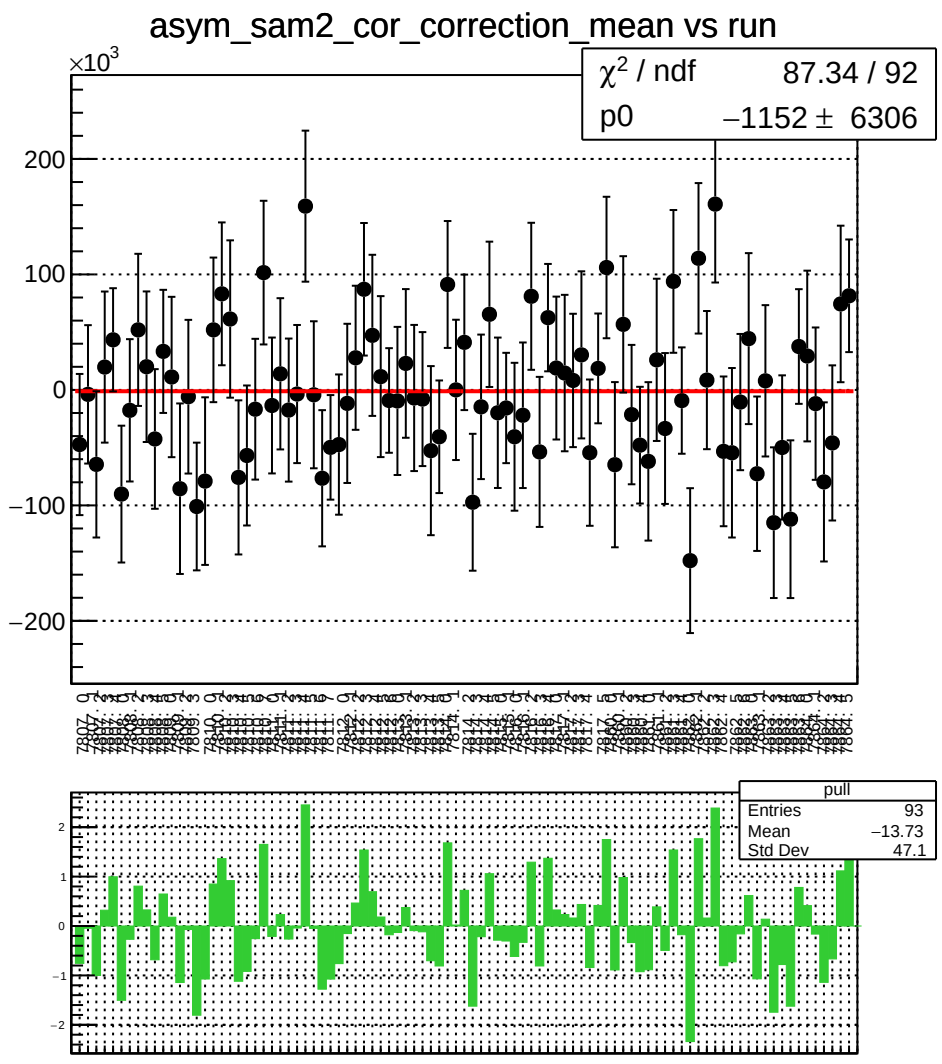

pull1D
Entries 93
Mean −0.01082
Std Dev 0.969
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

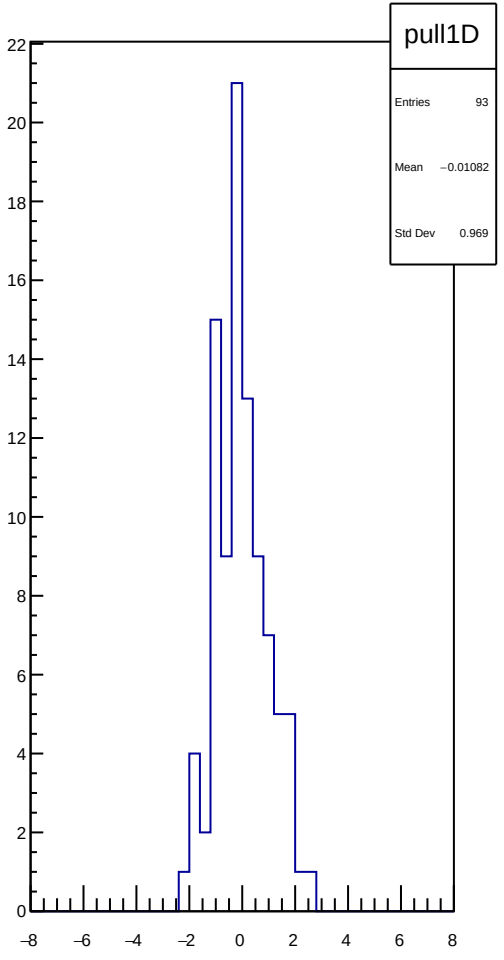

asym_sam2_reg_correction_rms vs run
χ² / ndf 7201 / 92
p0 6055 ± 4.459
7000
6500
6000
5500
5000

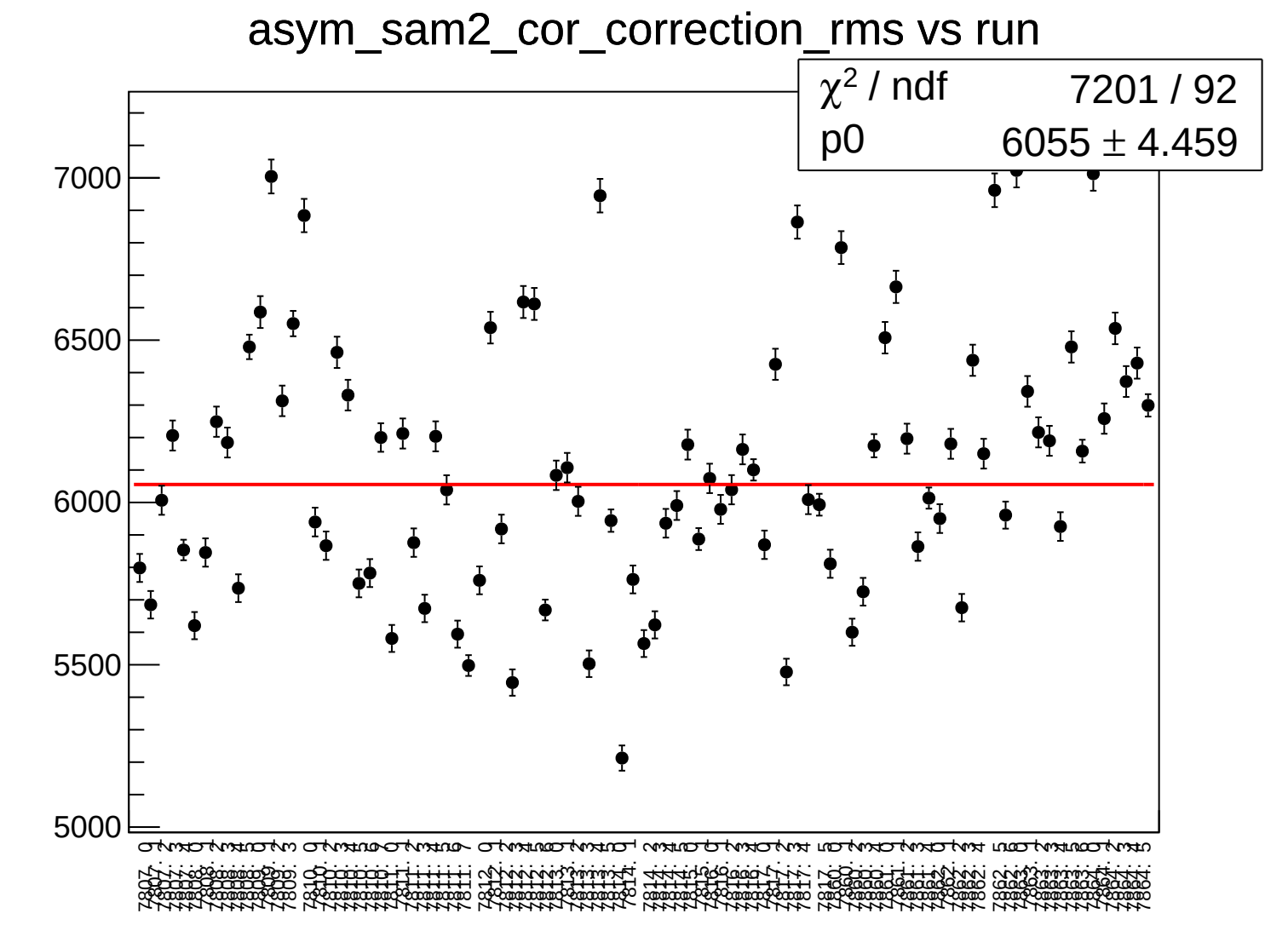

cor_asym_sam2_mean vs run
χ² / ndf 84.11 / 92
p0 −341.8 ± 382.5
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean −33.17
Std Dev 0
2
1
0
−1
−2
−3

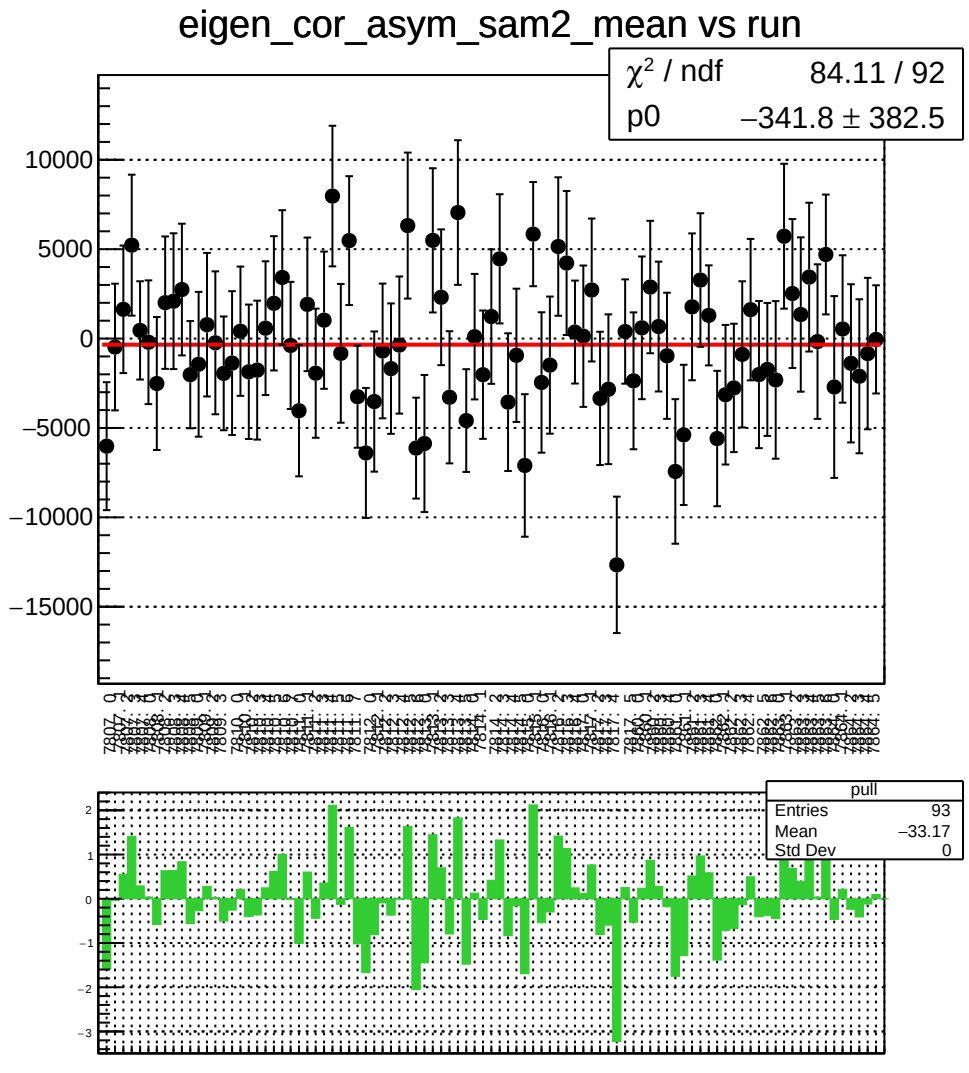

pull1D
Entries 93
Mean 0.007403
Std Dev 0.951
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

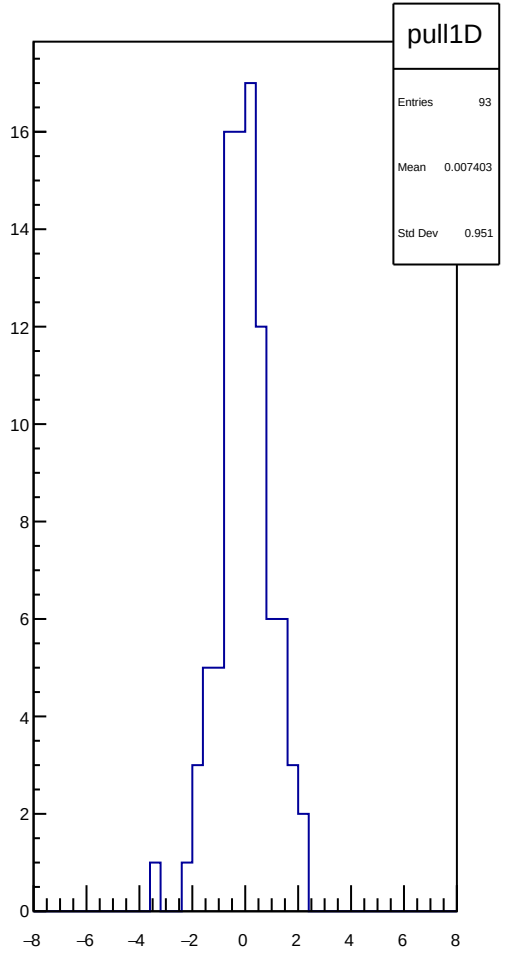

cor_asym_sam2_rms vs run
χ² / ndf 6860 / 92
p0 367.3 ± 0.2704
500
480
460
440
420
400
380
360
340
320

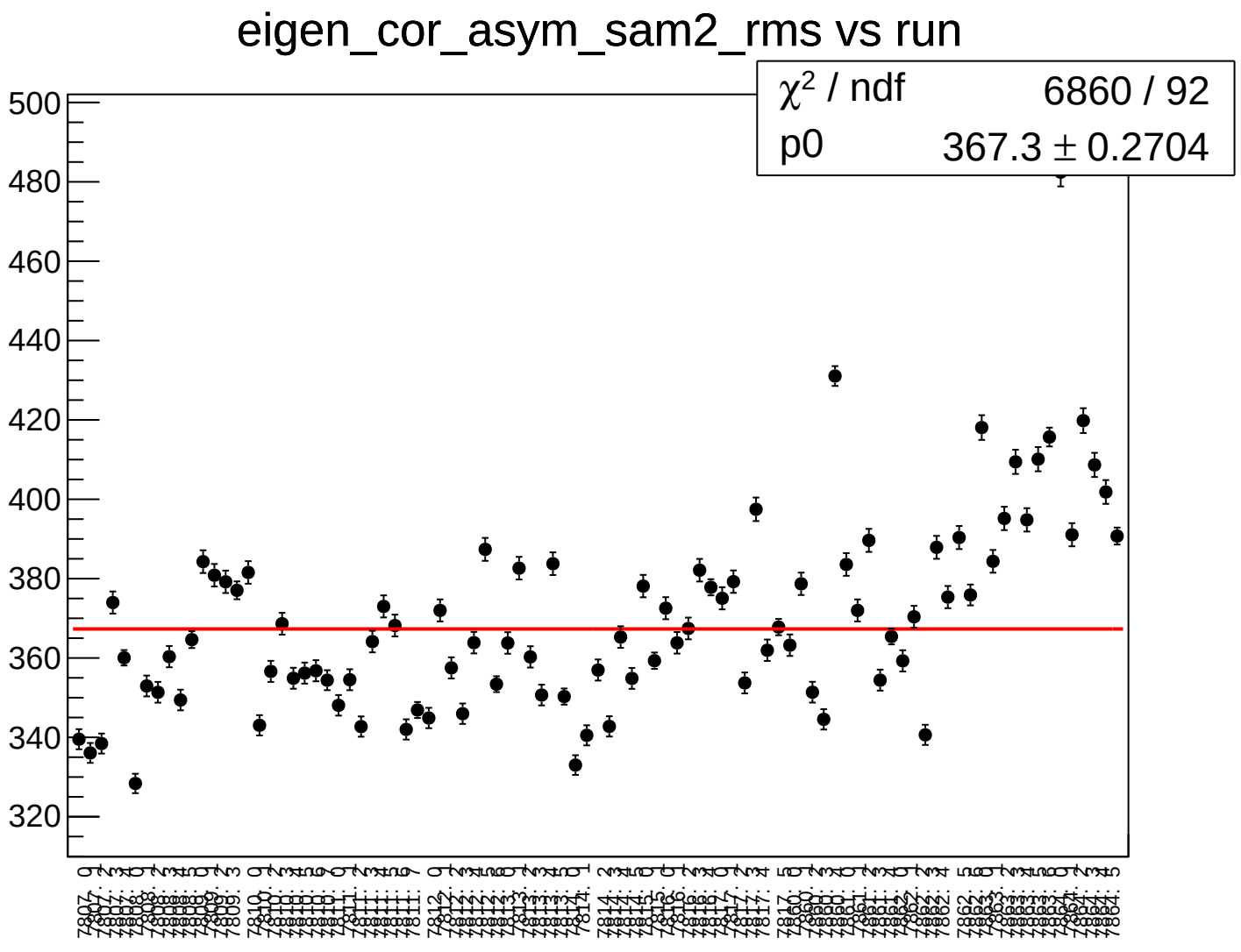

asym_sam2_cor_correction_mean vs run
χ² / ndf 87.34 / 92
p0 −1152 ± 6306
×10³
200
100
0
−100
−200
pull
Entries 93
Mean −13.73
Std Dev 47.1
2
1
0
−1
−2

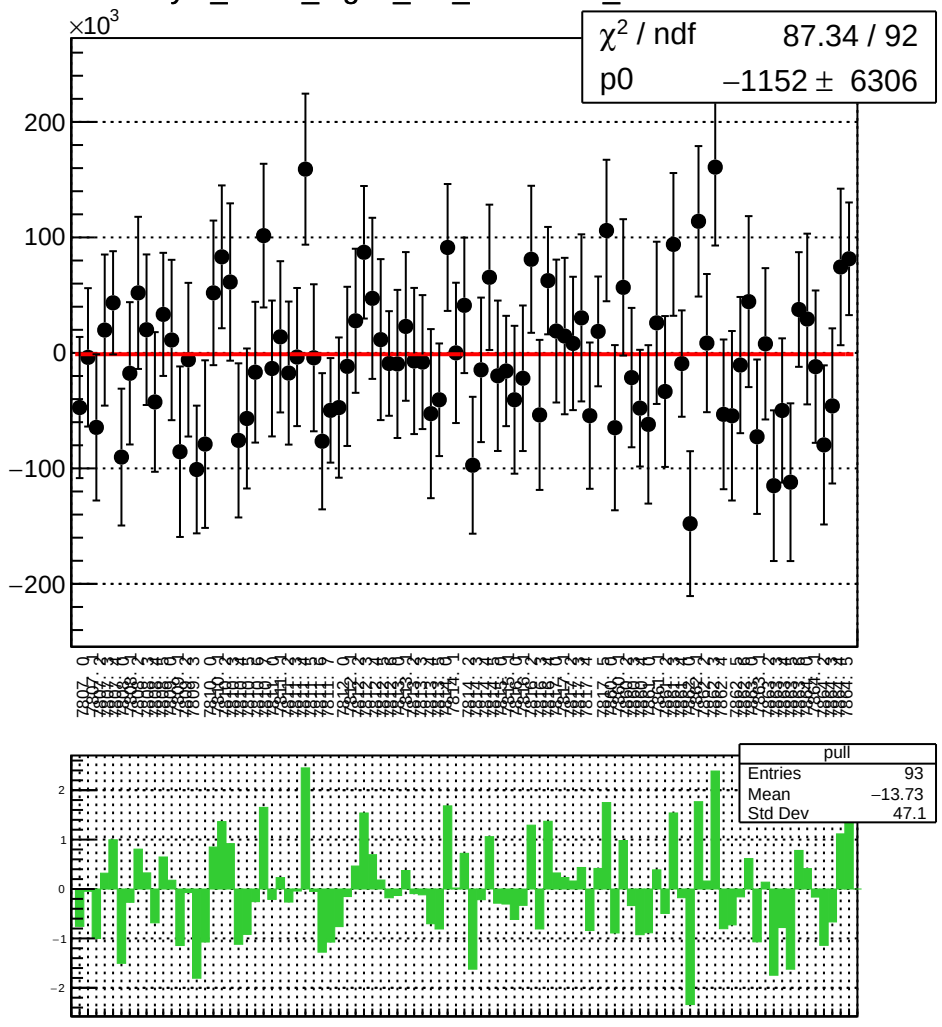

pull1D
Entries 93
Mean −0.01082
Std Dev 0.969
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

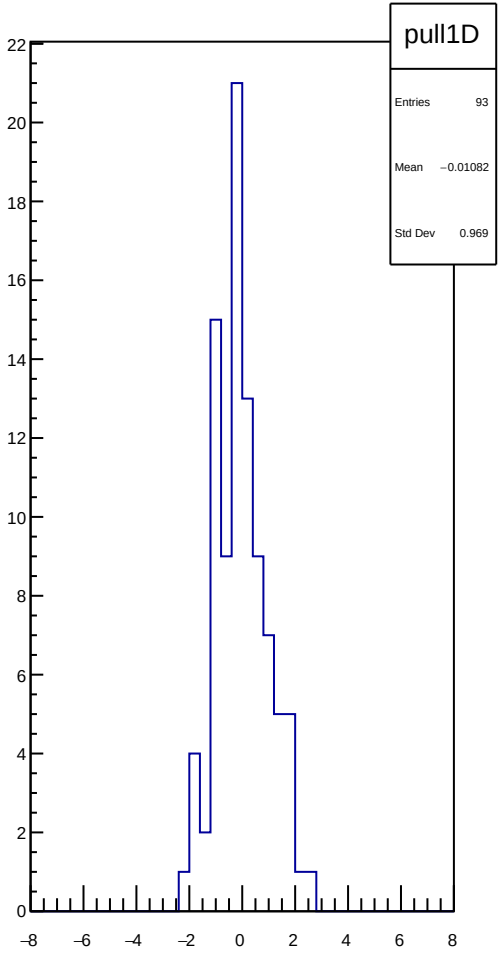

asym_sam2_cor_correction_rms vs run
χ² / ndf 7201 / 92
p0 6055 ± 4.459
7000
6500
6000
5500
5000

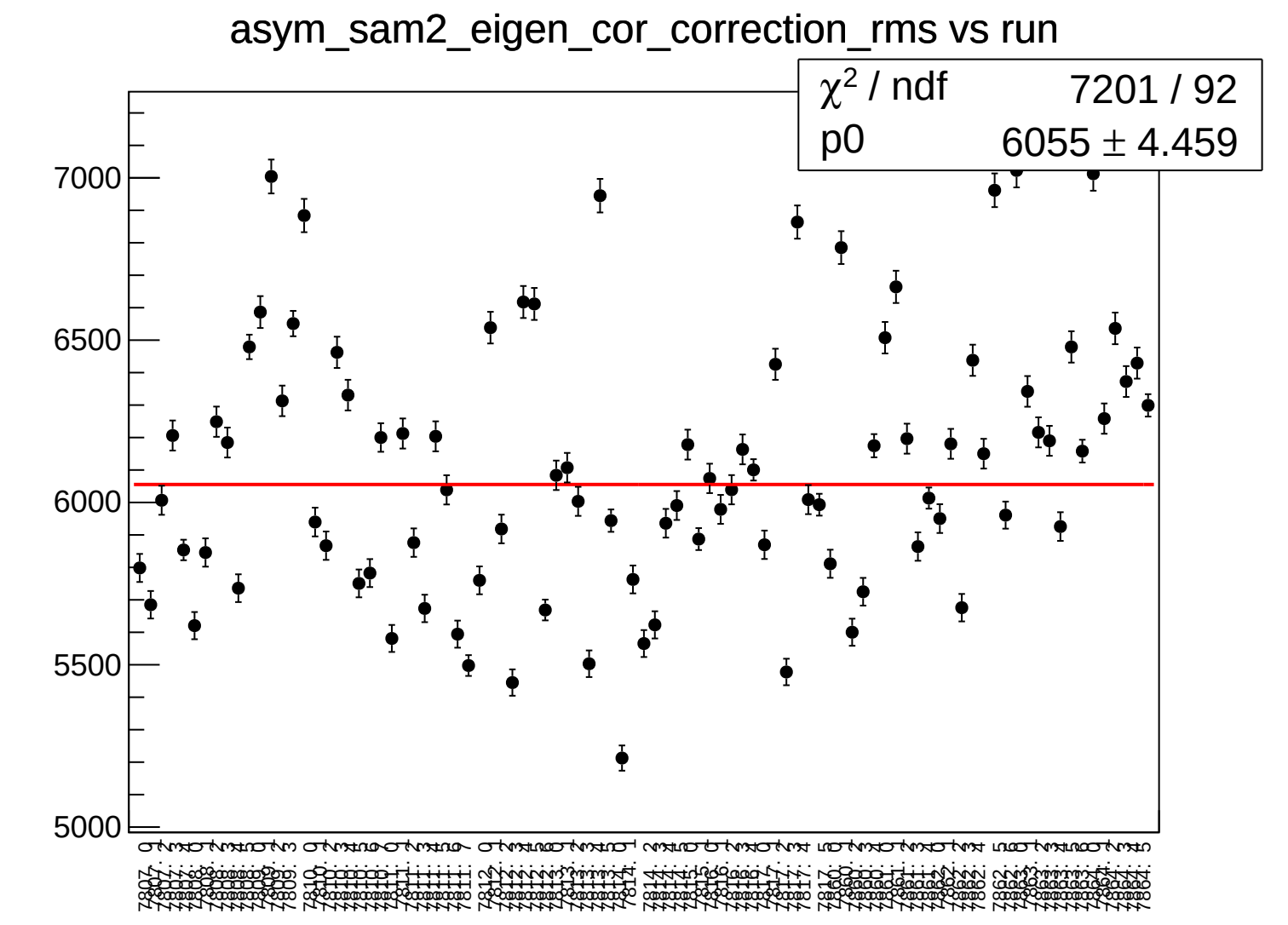

eigen_cor_asym_sam2_mean vs run
χ² / ndf 84.11 / 92
p0 −341.8 ± 382.5
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean −33.17
Std Dev 0
2
1
0
−1
−2
−3

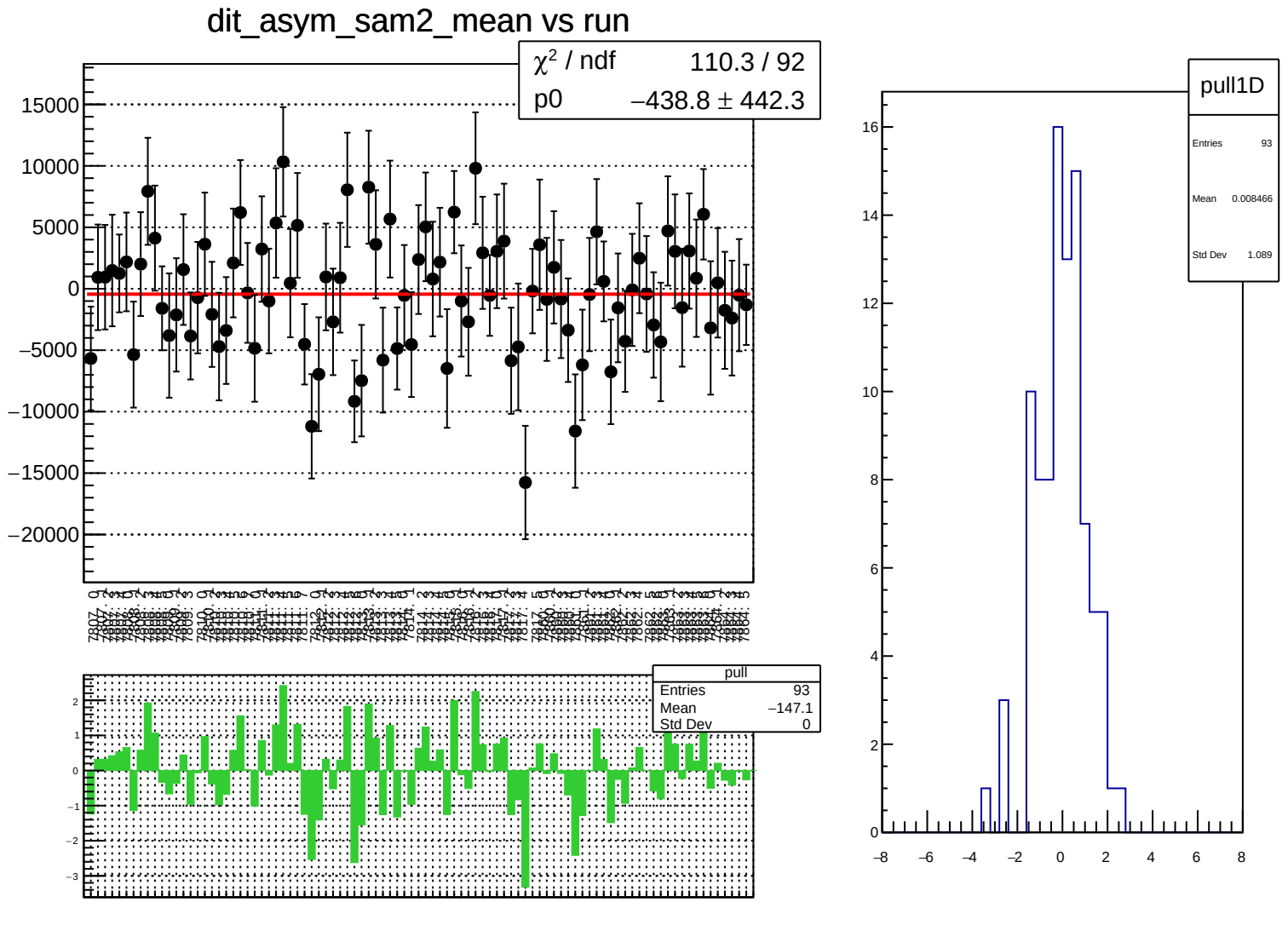

pull1D
Entries 93
Mean 0.007403
Std Dev 0.951
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

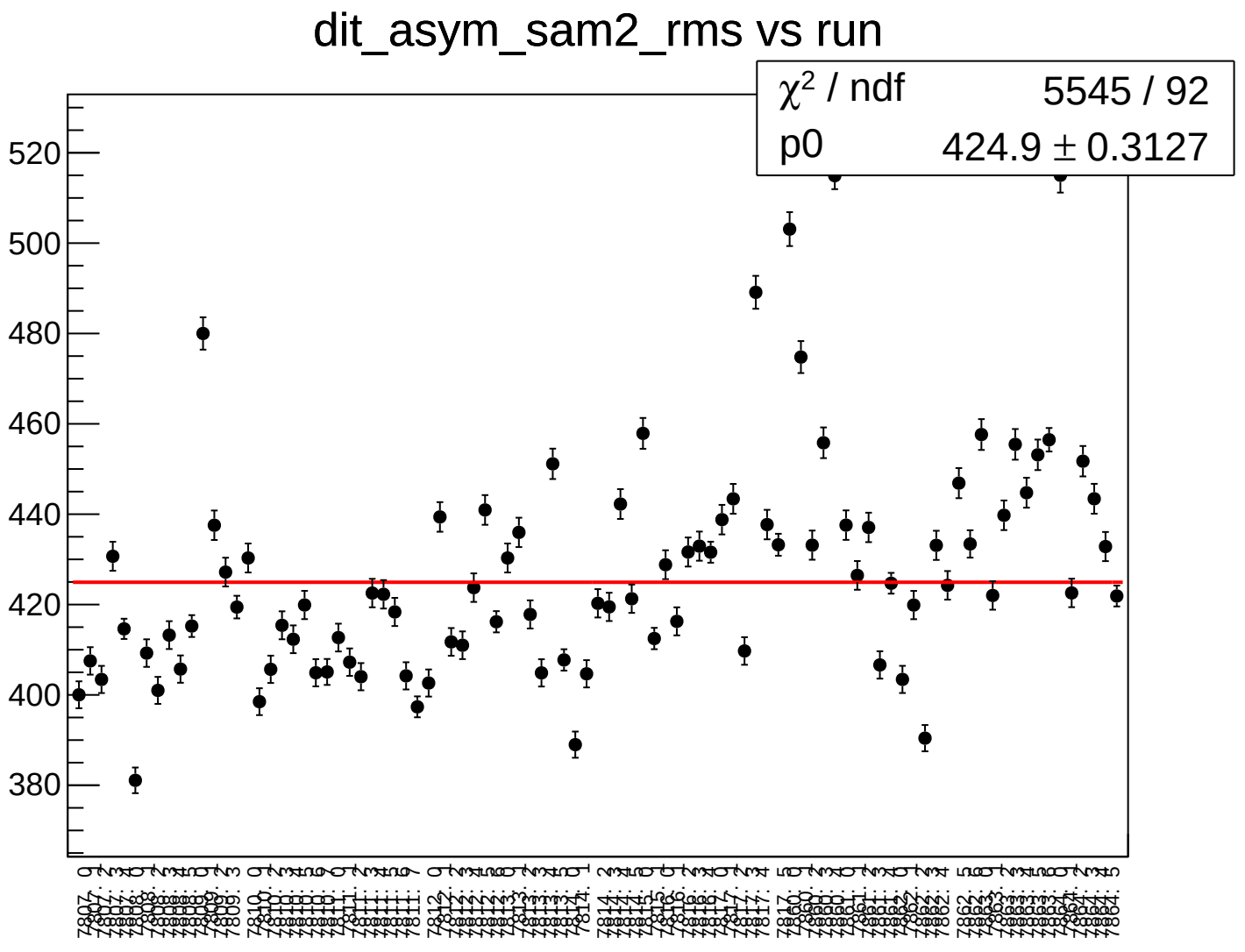

eigen_cor_asym_sam2_rms vs run
χ² / ndf 6860 / 92
p0 367.3 ± 0.2704
500
480
460
440
420
400
380
360
340
320

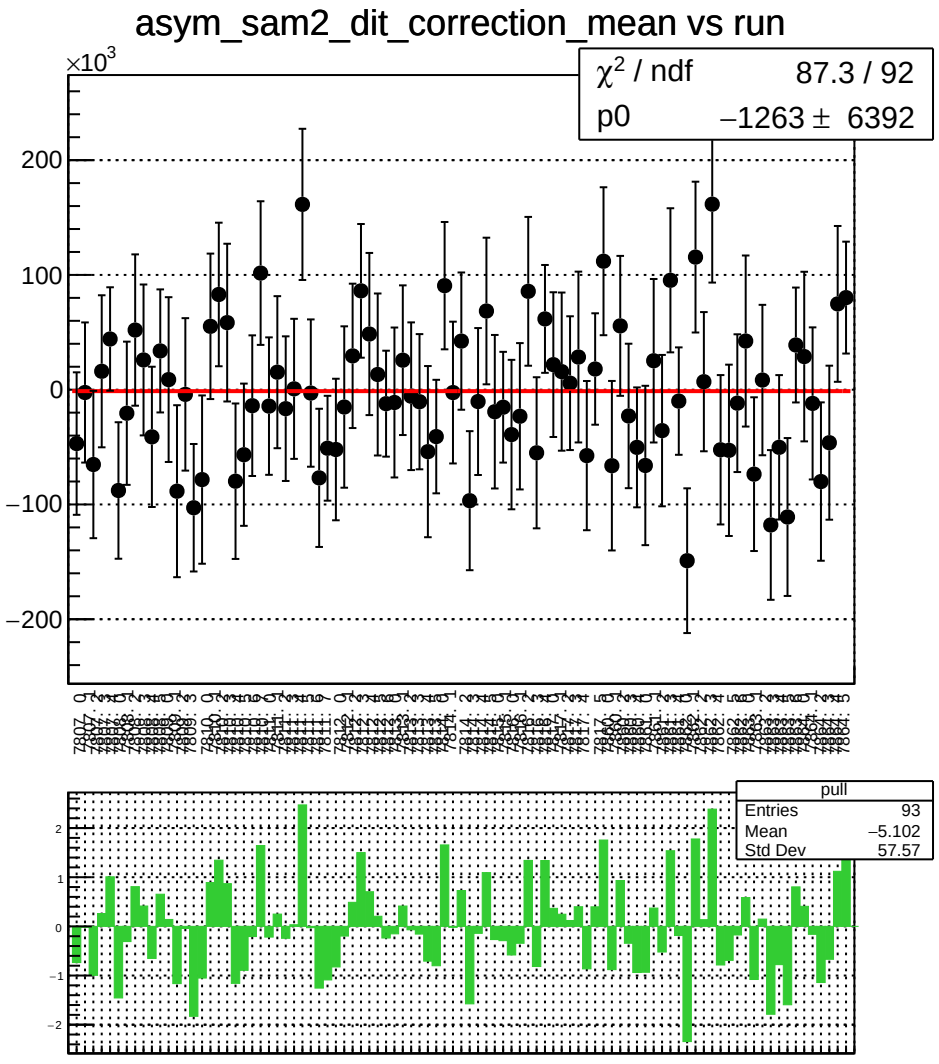

asym_sam2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 87.34 / 92
p0 −1152 ± 6306
200
100
0
−100
−200
pull
Entries 93
Mean −13.73
Std Dev 47.1
2
1
0
−1
−2

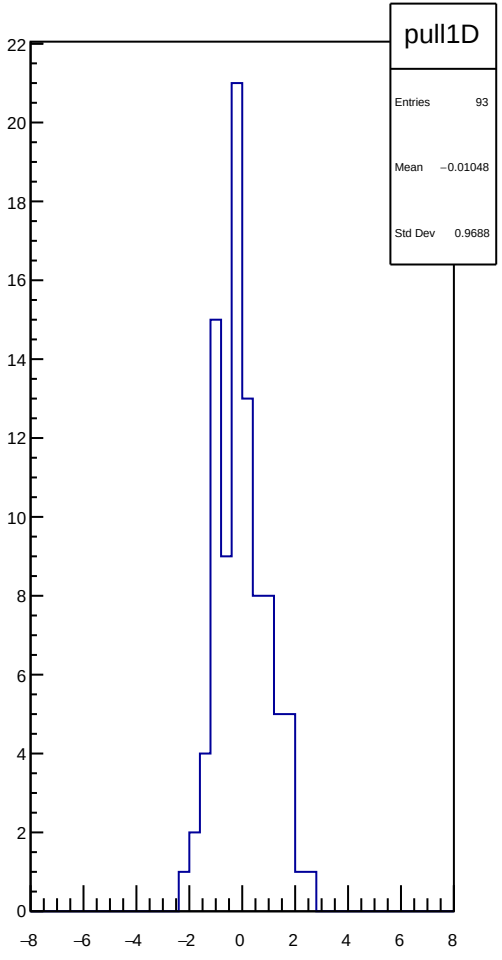

pull1D
Entries 93
Mean −0.01082
Std Dev 0.969
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

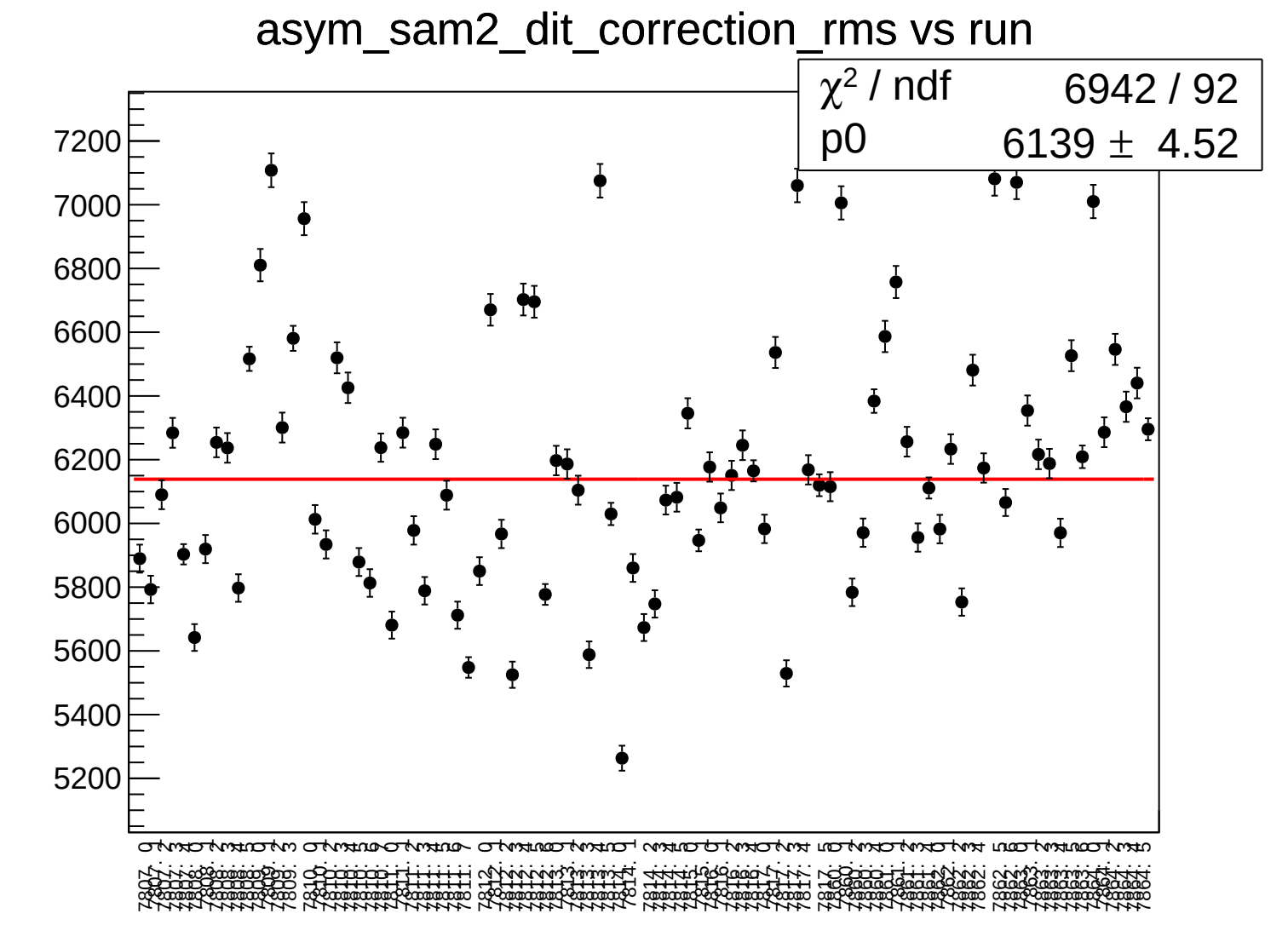

asym_sam2_eigen_cor_correction_rms vs run
χ^2 / ndf 7201 / 92
p0 6055 ± 4.459
7000
6500
6000
5500
5000

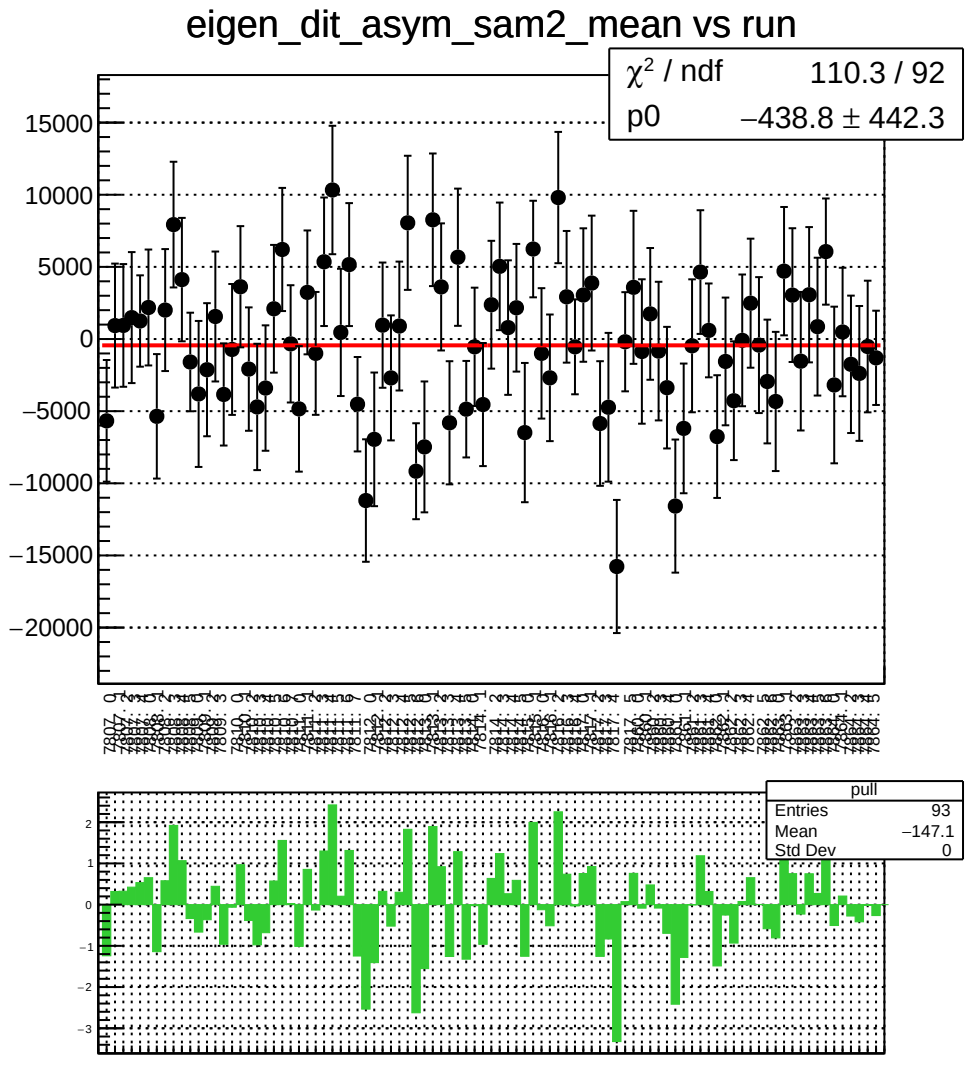

dit_asym_sam2_mean vs run
χ² / ndf 110.3 / 92
p0 −438.8 ± 442.3
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 93
Mean −147.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.008466
Std Dev 1.089
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

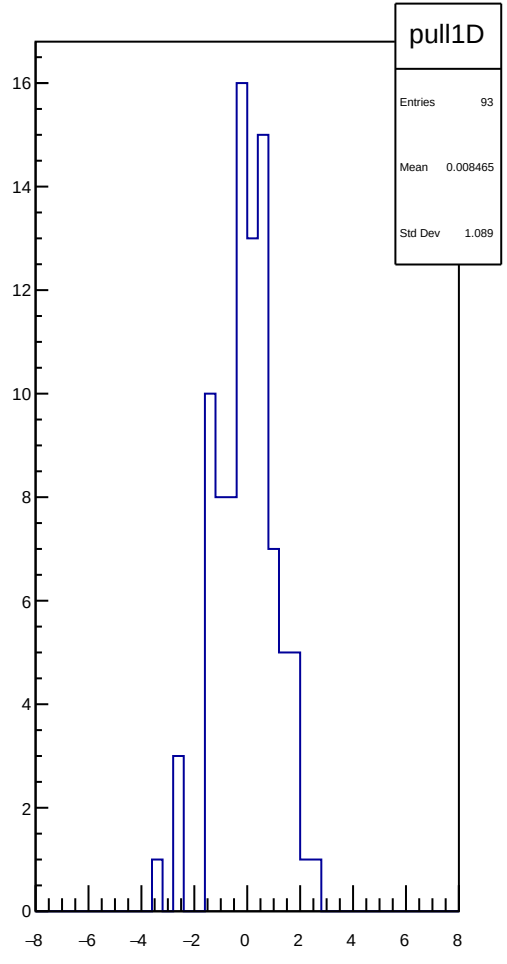

dit_asym_sam2_rms vs run
χ² / ndf 5545 / 92
p0 424.9 ± 0.3127
520
500
480
460
440
420
400
380

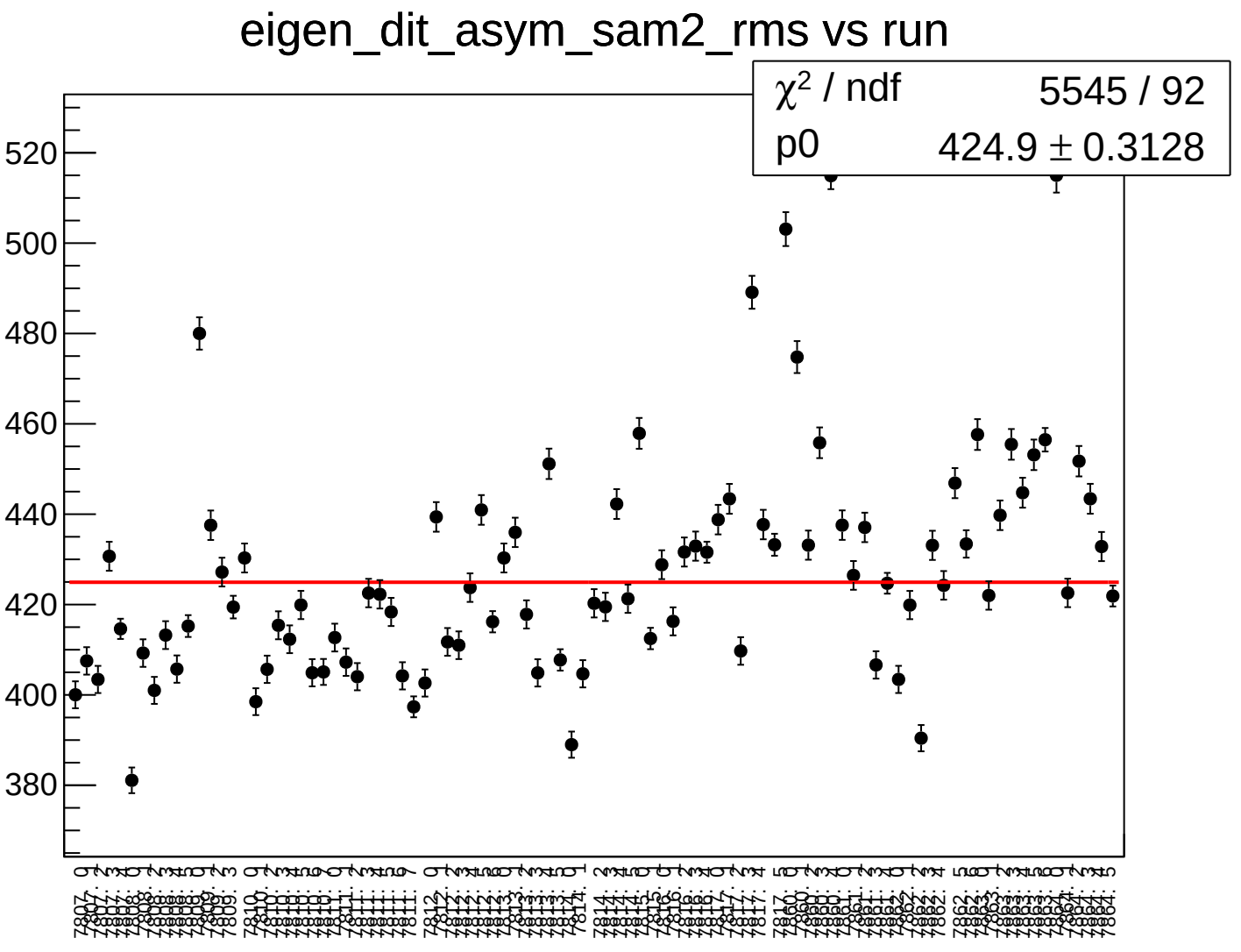

asym_sam2_dit_correction_mean vs run
×10^3
χ² / ndf 87.3 / 92
p0 −1263 ± 6392
200
100
0
−100
−200
pull
Entries 93
Mean −5.102
Std Dev 57.57
2
1
0
−1
−2

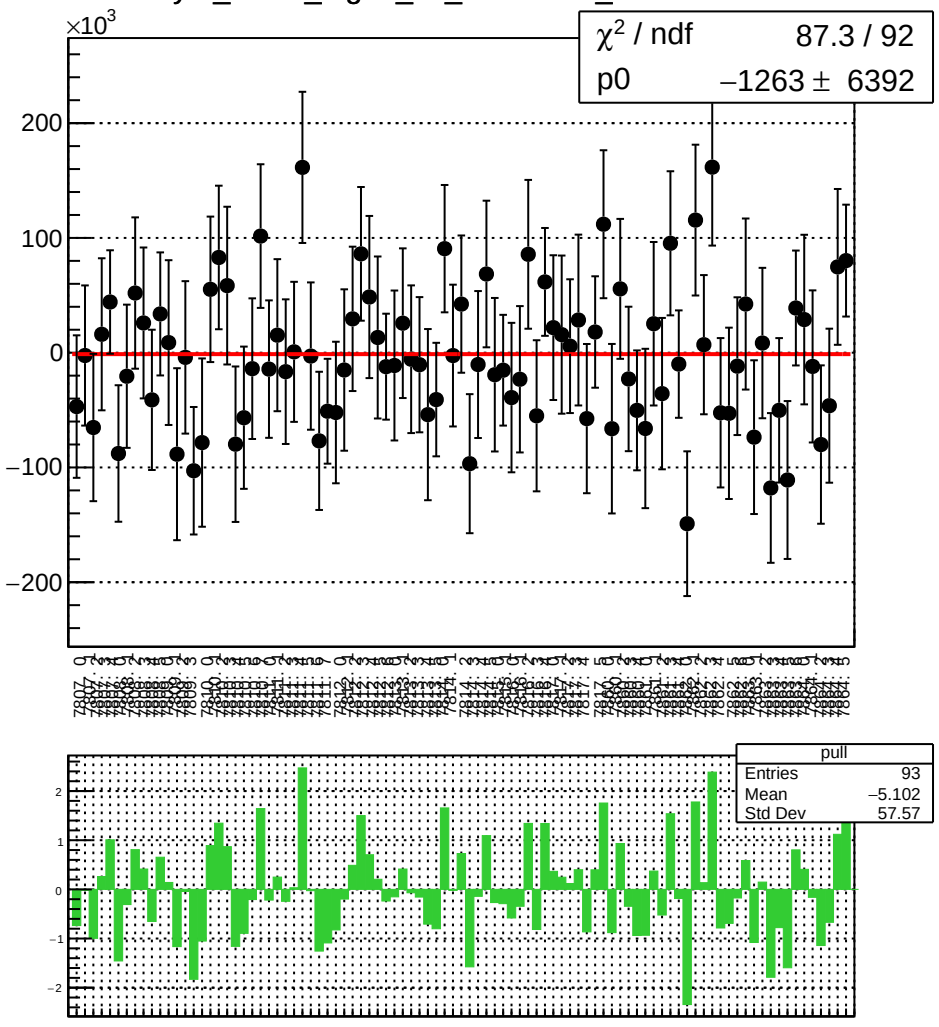

pull1D
Entries 93
Mean −0.01048
Std Dev 0.9688
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

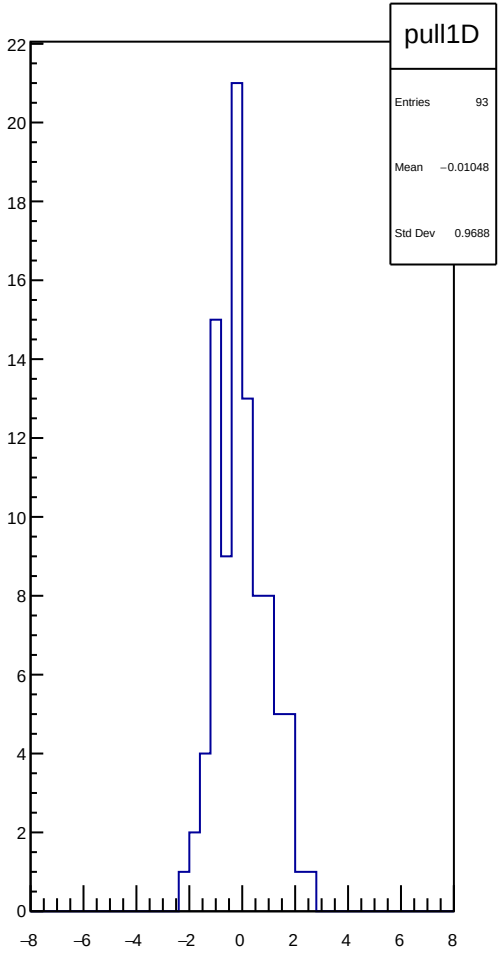

asym_sam2_dit_correction_rms vs run
χ² / ndf 6942 / 92
p0 6139 ± 4.52
7200
7000
6800
6600
6400
6200
6000
5800
5600
5400
5200

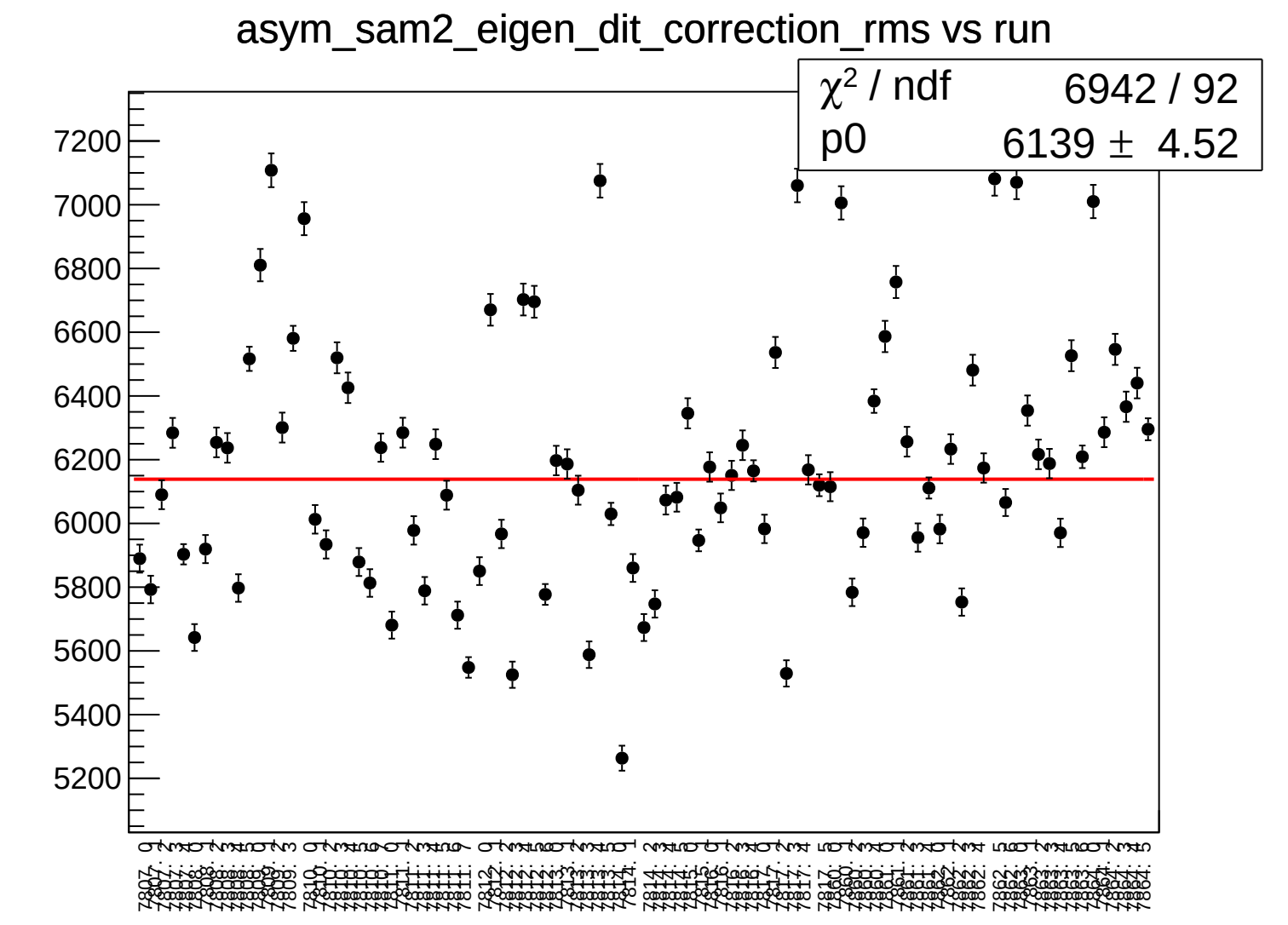

eigen_dit_asym_sam2_mean vs run
χ² / ndf 110.3 / 92
p0 −438.8 ± 442.3
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 93
Mean −147.1
Std Dev 0
2
1
0
−1
−2
−3

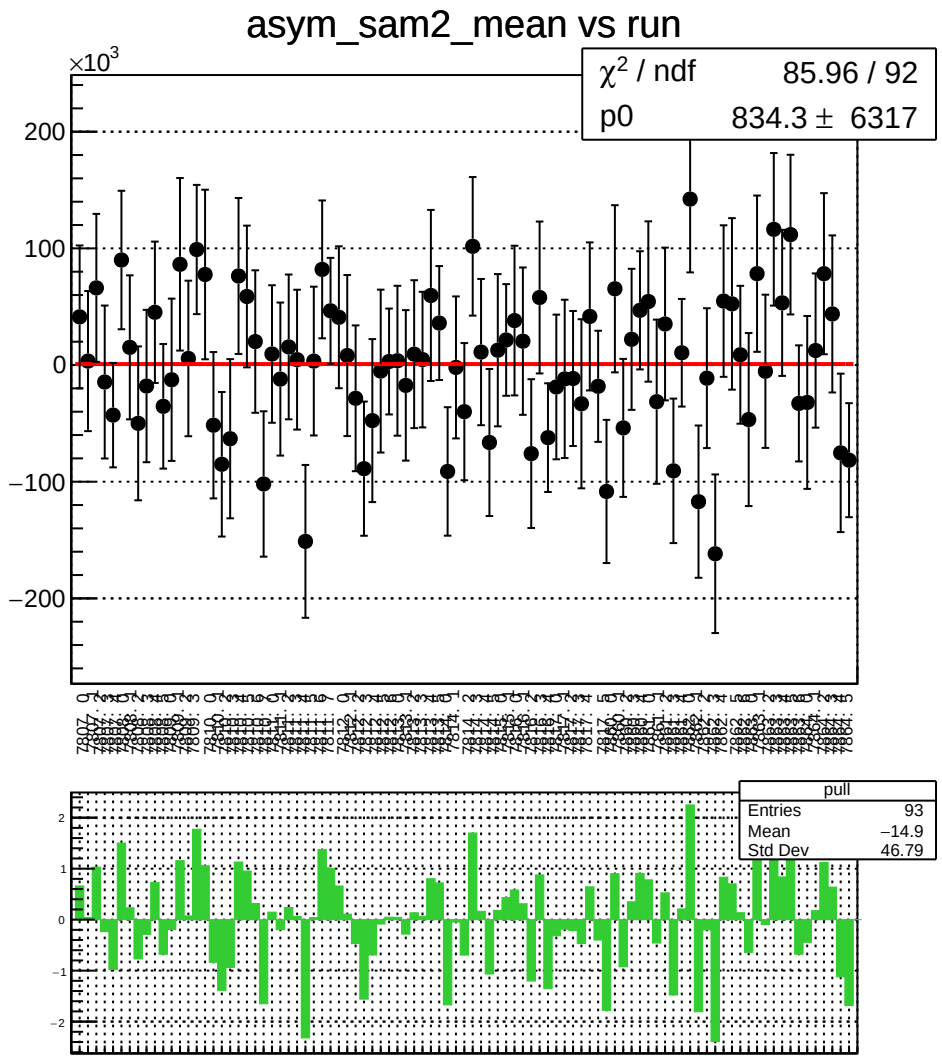

pull1D
Entries 93
Mean 0.008465
Std Dev 1.089
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

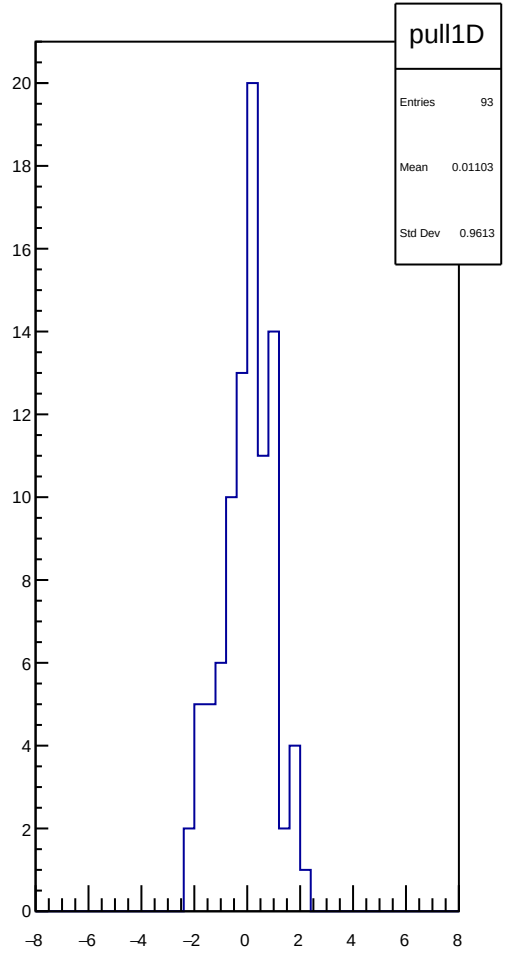

eigen_dit_asym_sam2_rms vs run
χ^2 / ndf 5545 / 92
p0 424.9 ± 0.3128
520
500
480
460
440
420
400
380

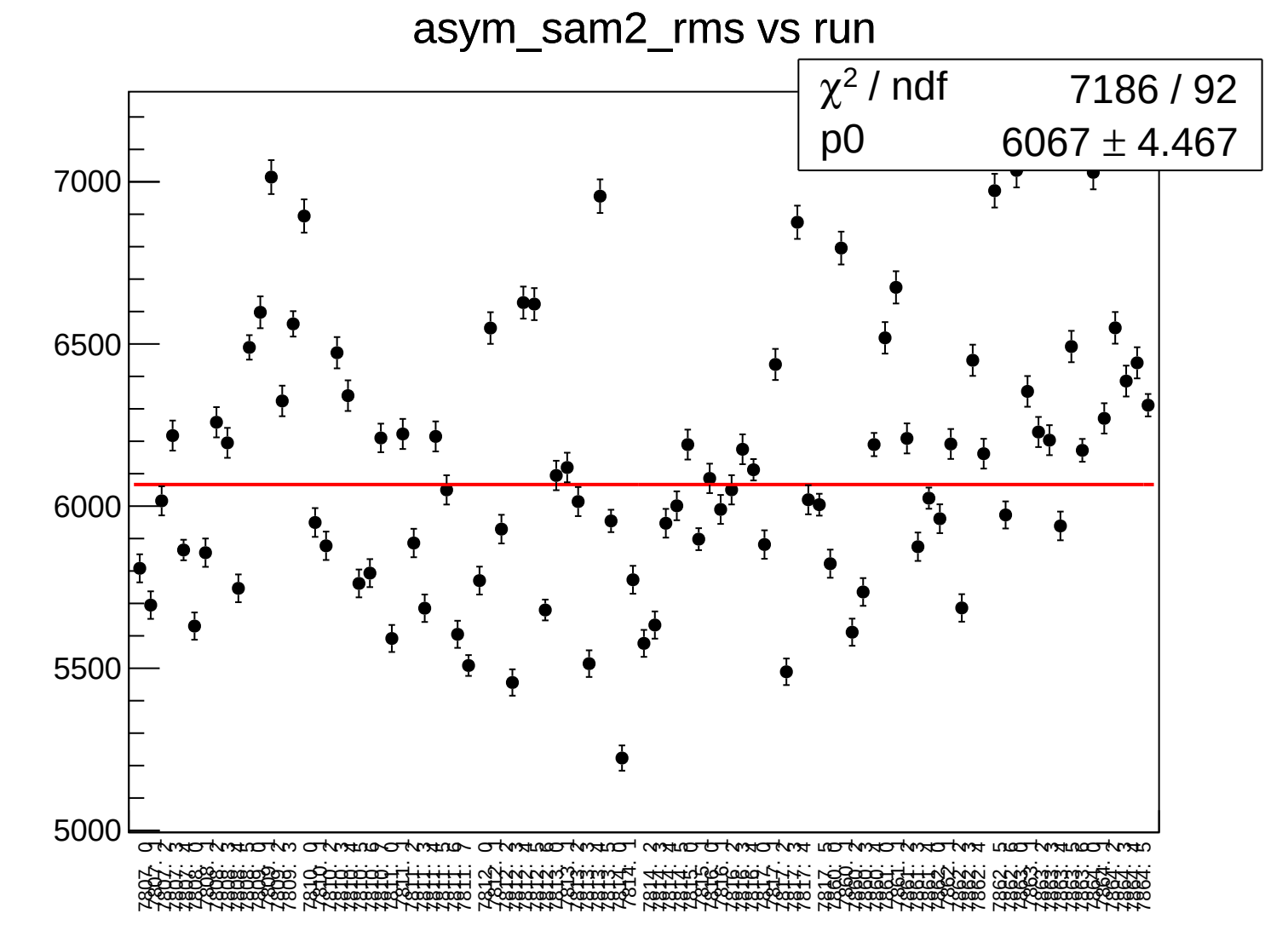

asym_sam2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 87.3 / 92
p0 −1263 ± 6392
200
100
0
−100
−200
pull
Entries 93
Mean −5.102
Std Dev 57.57
2
1
0
−1
−2

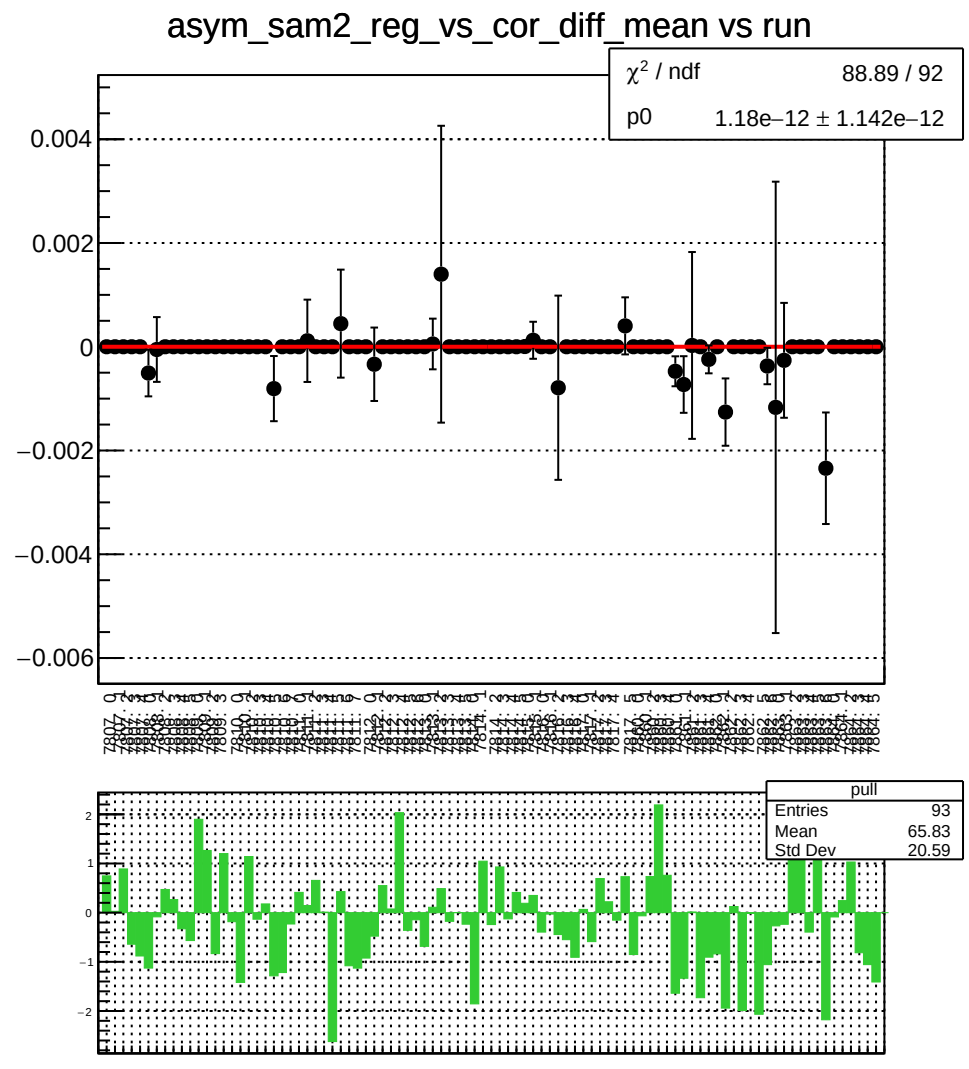

pull1D
Entries 93
Mean −0.01048
Std Dev 0.9688
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

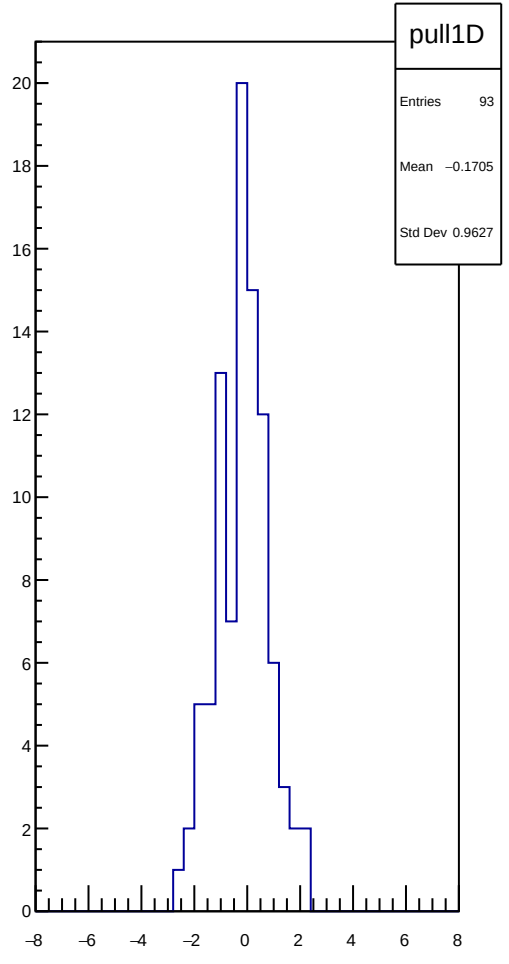

asym_sam2_eigen_dit_correction_rms vs run
χ² / ndf 6942 / 92
p0 6139 ± 4.52
7200
7000
6800
6600
6400
6200
6000
5800
5600
5400
5200

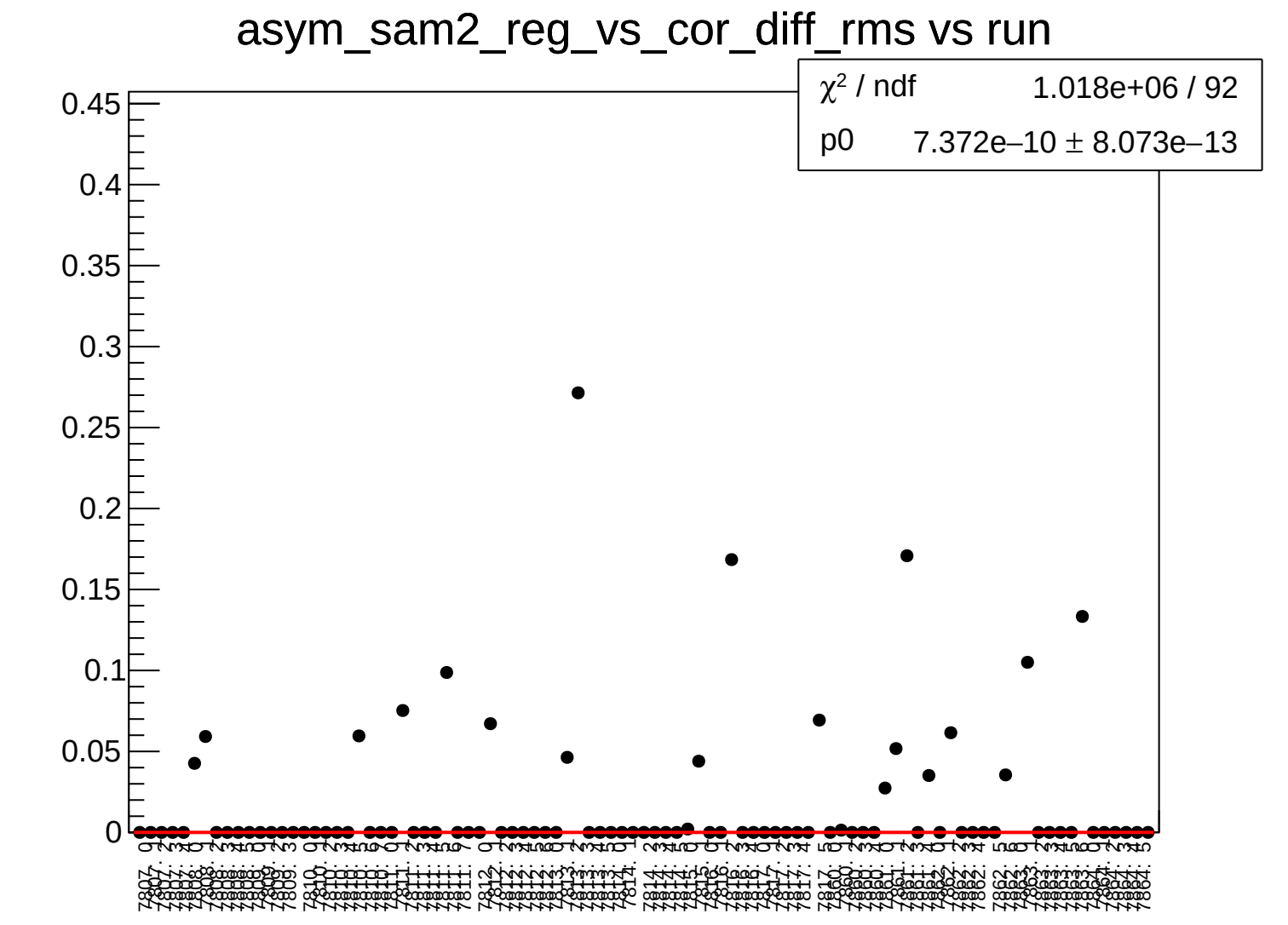

asym_sam2_mean vs run
×10^3
χ² / ndf 85.96 / 92
p0 834.3 ± 6317
200
100
0
−100
−200
pull
Entries 93
Mean −14.9
Std Dev 46.79
2
1
0
−1
−2

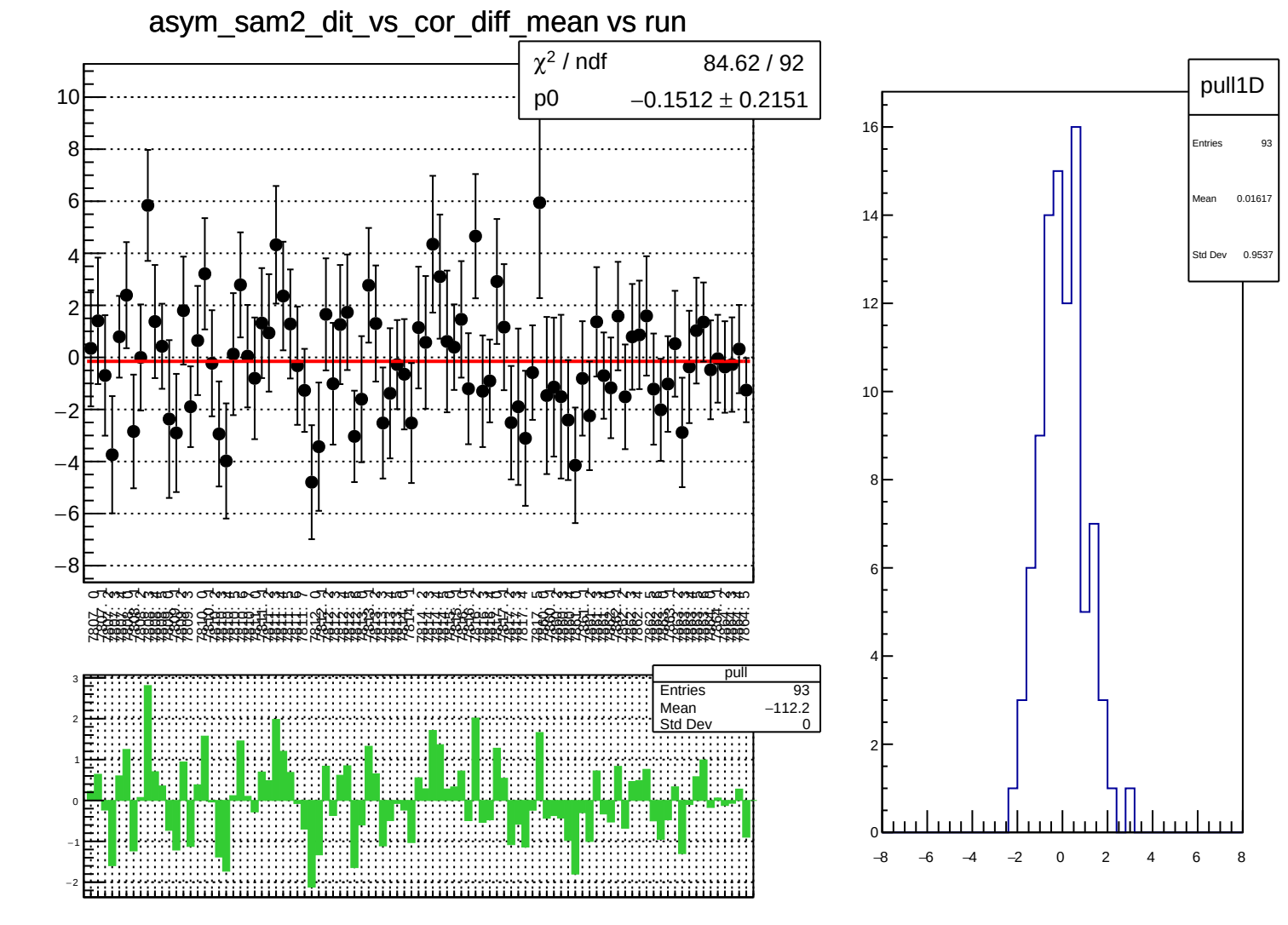

pull1D
Entries 93
Mean 0.01103
Std Dev 0.9613
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

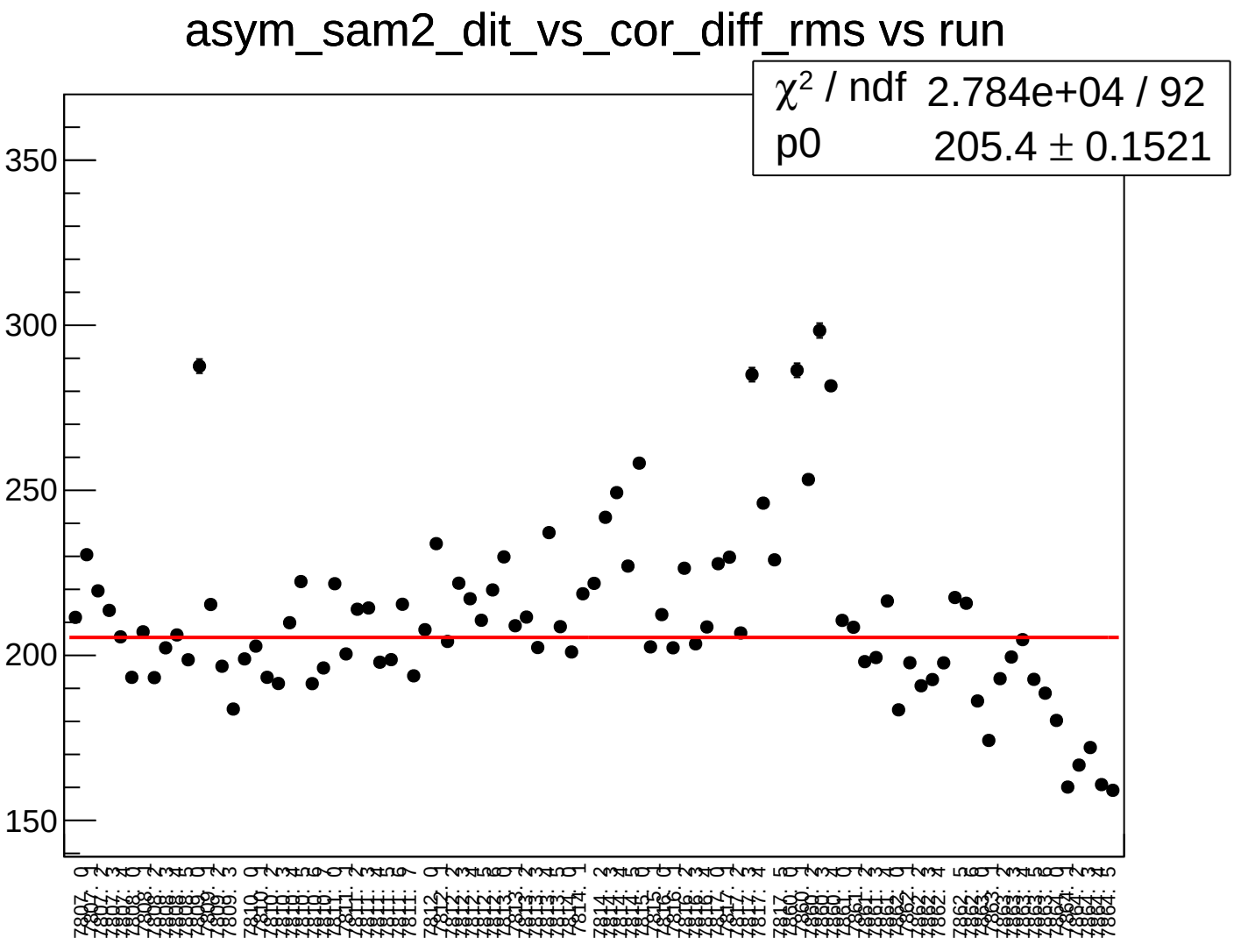

asym_sam2_rms vs run
χ² / ndf 7186 / 92
p0 6067 ± 4.467
7000
6500
6000
5500
5000

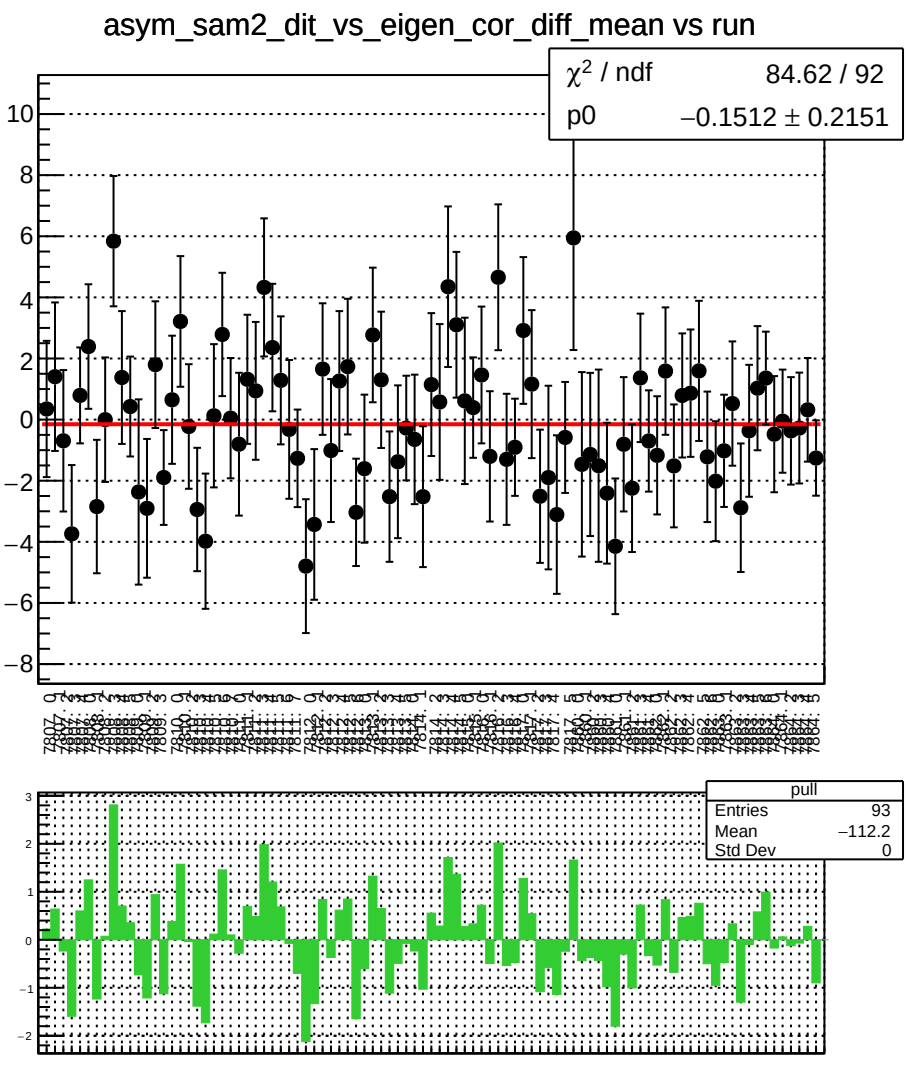

asym_sam2_reg_vs_cor_diff_mean vs run
χ² / ndf 88.89 / 92
p0 1.18e−12 ± 1.142e−12
0.004
0.002
0
−0.002
−0.004
−0.006
pull
Entries 93
Mean 65.83
Std Dev 20.59
2
1
0
−1
−2

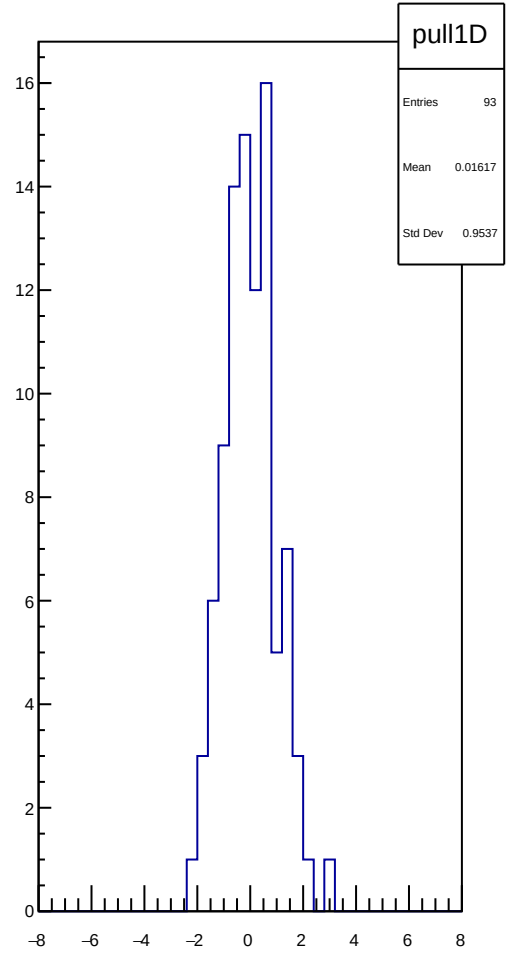

pull1D
Entries 93
Mean −0.1705
Std Dev 0.9627
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

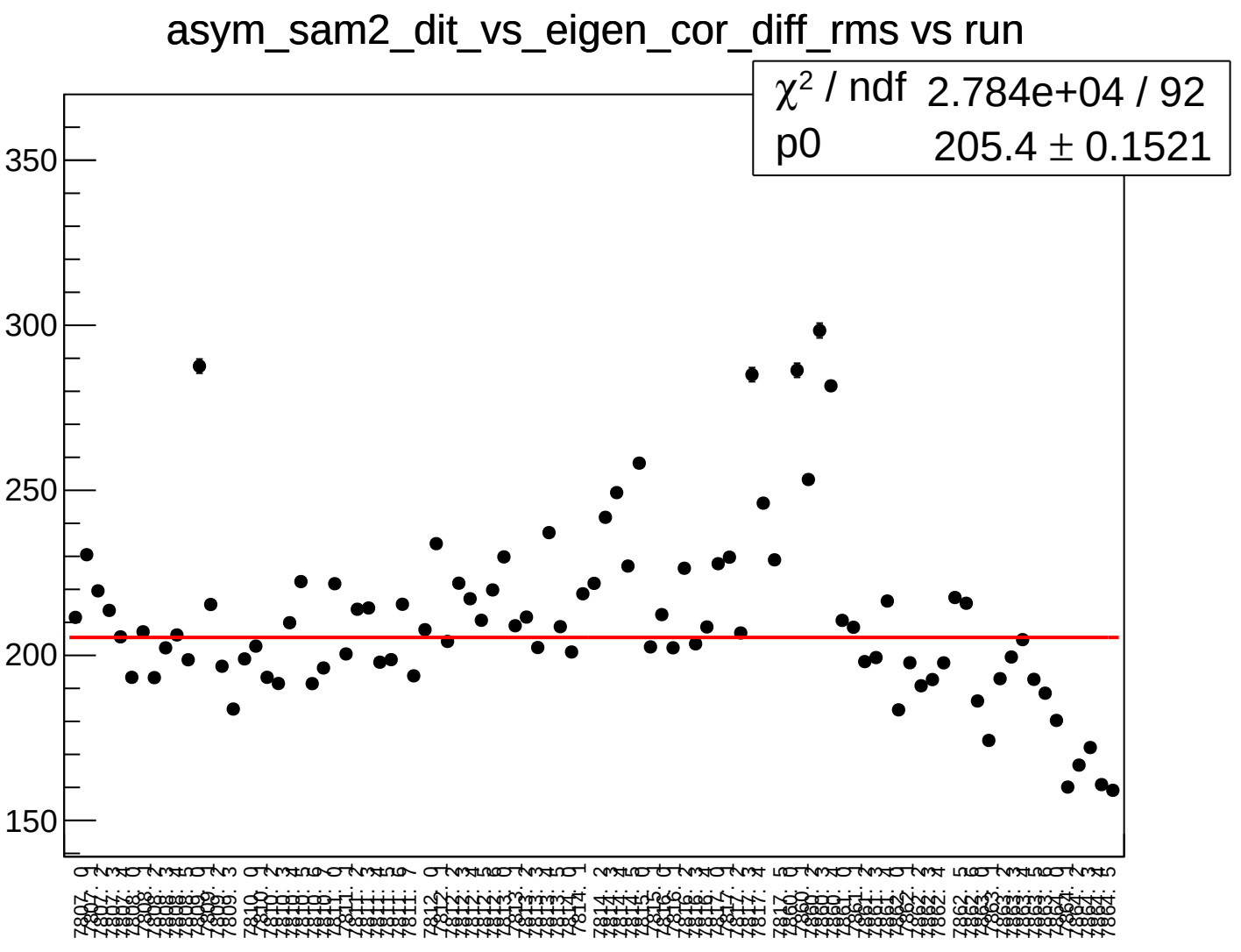

asym_sam2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.018e+06 / 92
p0 7.372e−10 ± 8.073e−13
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0

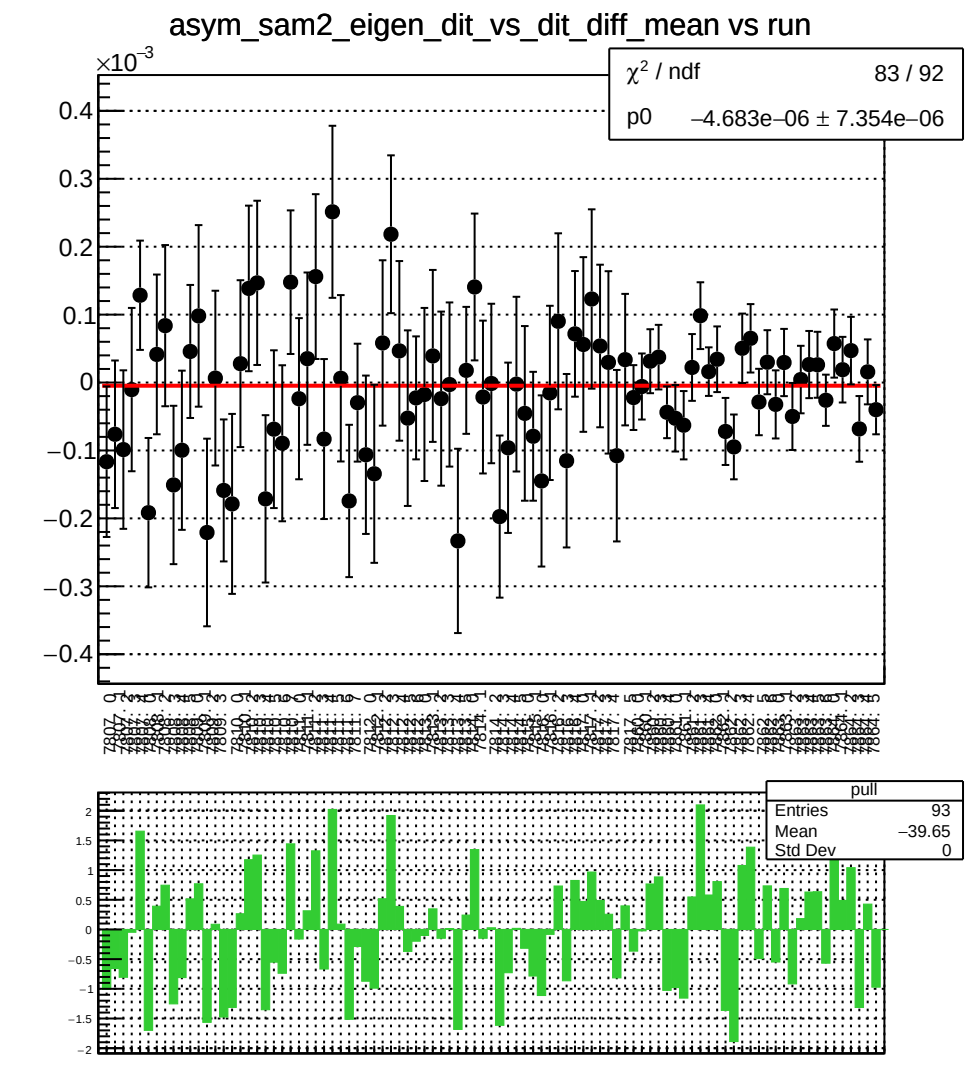

asym_sam2_dit_vs_cor_diff_mean vs run
χ² / ndf 84.62 / 92
p0 −0.1512 ± 0.2151
pull
Entries 93
Mean −112.2
Std Dev 0
pull1D
Entries 93
Mean 0.01617
Std Dev 0.9537

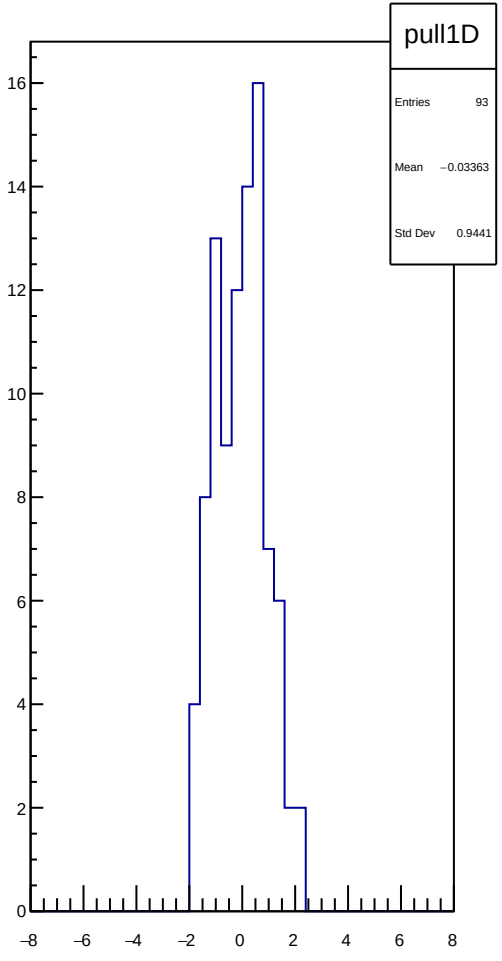

asym_sam2_dit_vs_cor_diff_rms vs run
χ² / ndf 2.784e+04 / 92
p0 205.4 ± 0.1521
350
300
250
200
150

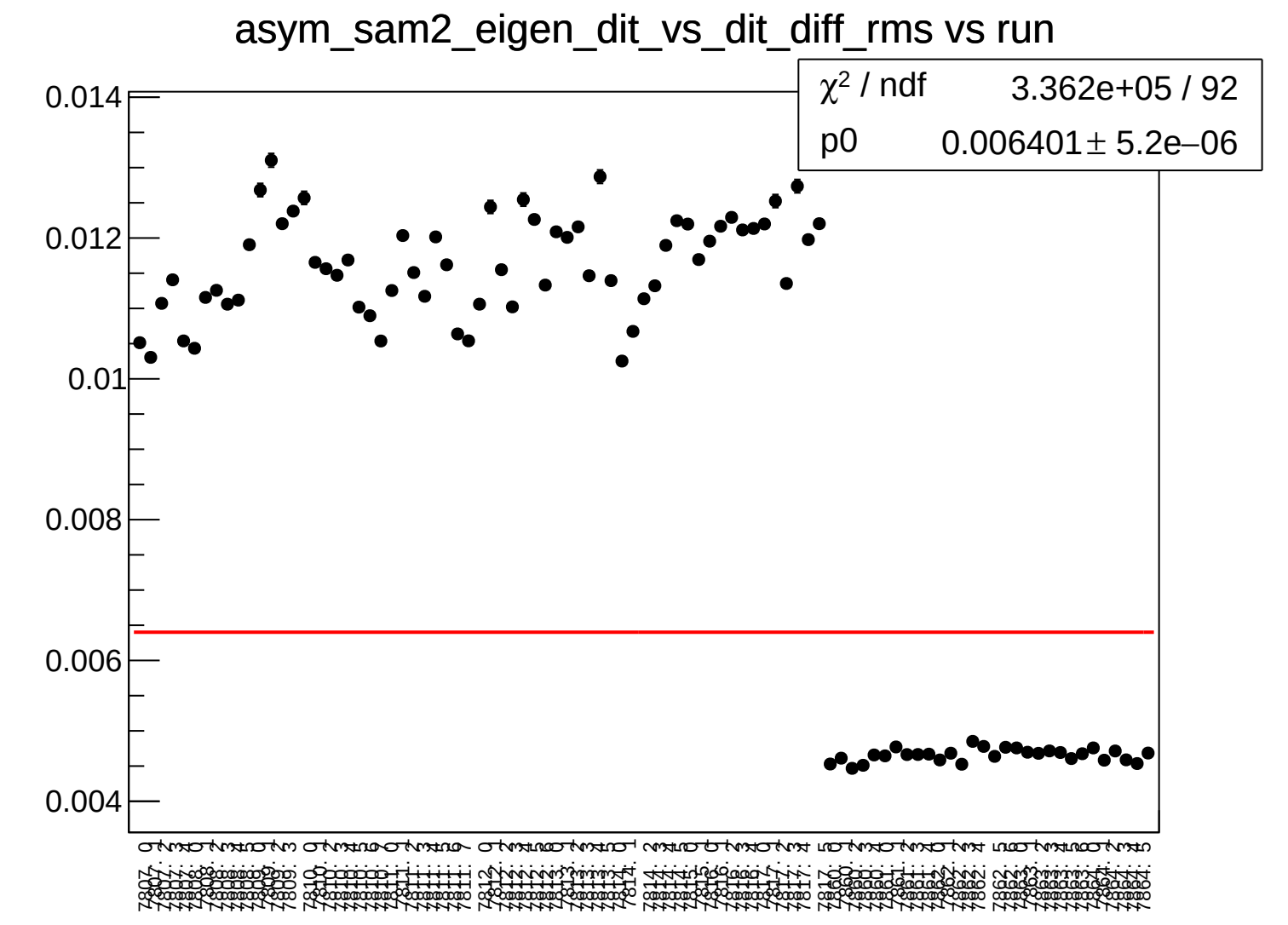

asym_sam2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.62 / 92
p0 −0.1512 ± 0.2151
pull
Entries 93
Mean −112.2
Std Dev 0

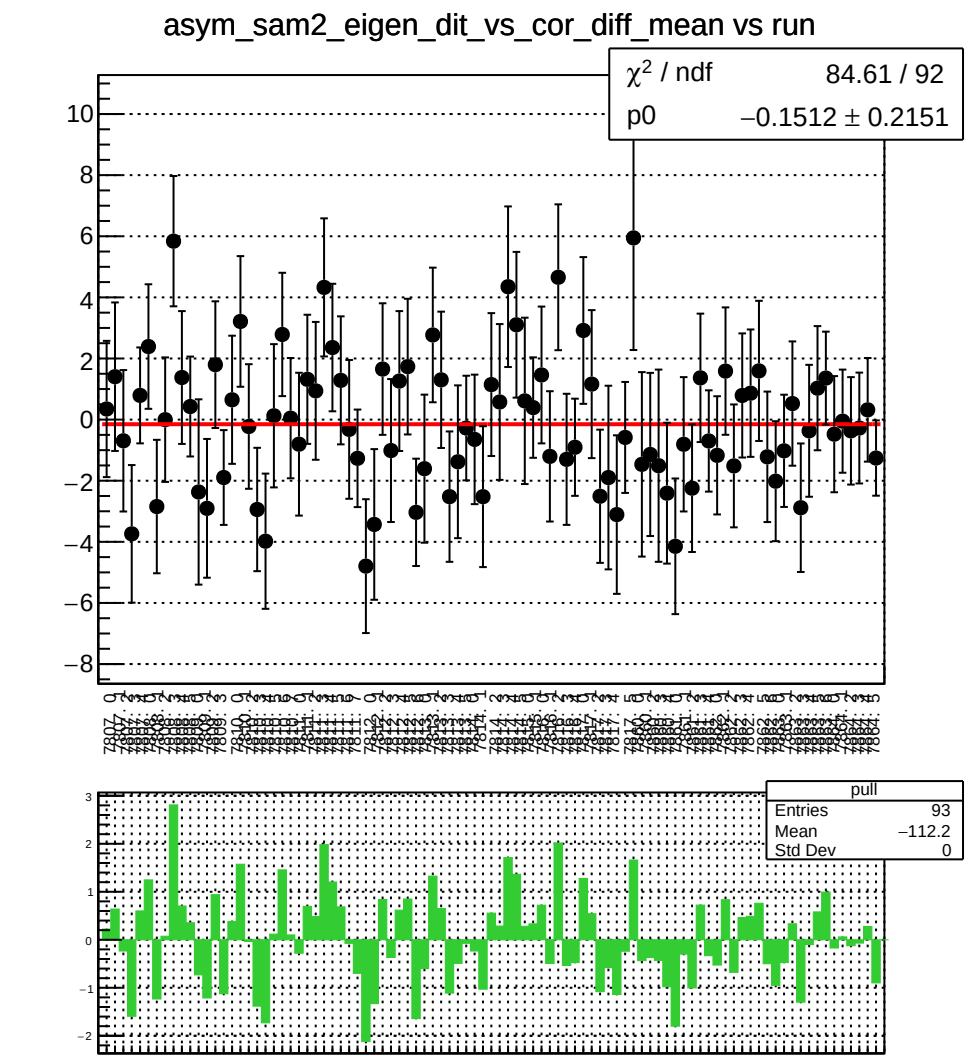

pull1D
Entries 93
Mean 0.01617
Std Dev 0.9537

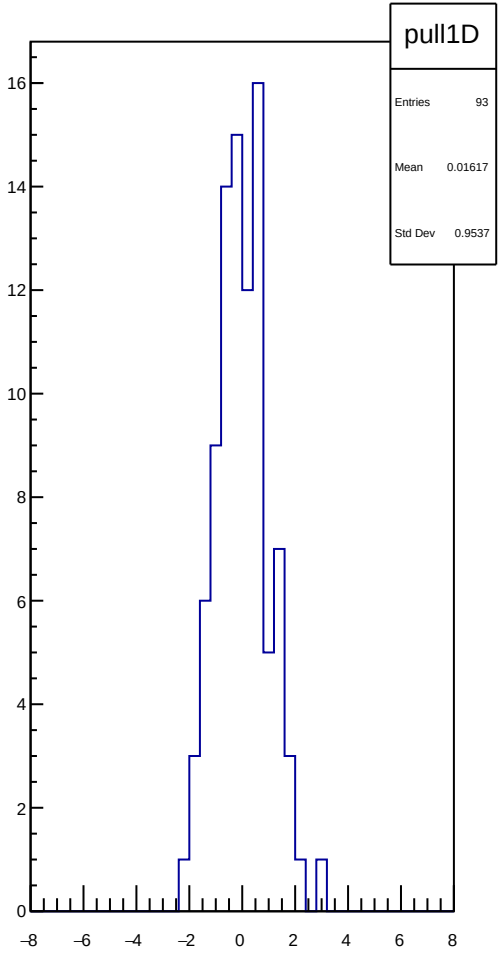

asym_sam2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.784e+04 / 92
p0 205.4 ± 0.1521
350
300
250
200
150

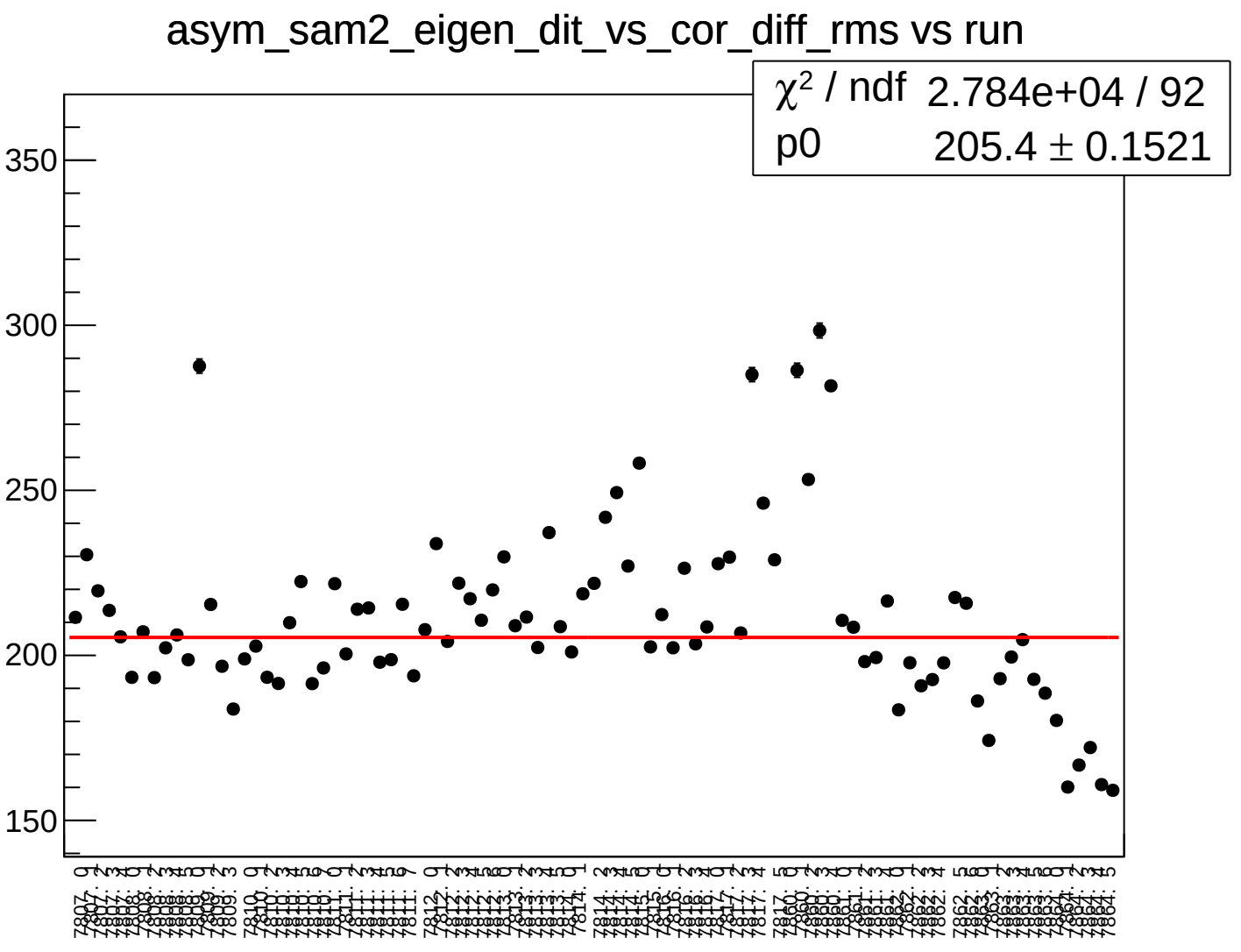

asym_sam2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 83 / 92
p0 −4.683e−06 ± 7.354e−06
pull
Entries 93
Mean −39.65
Std Dev 0

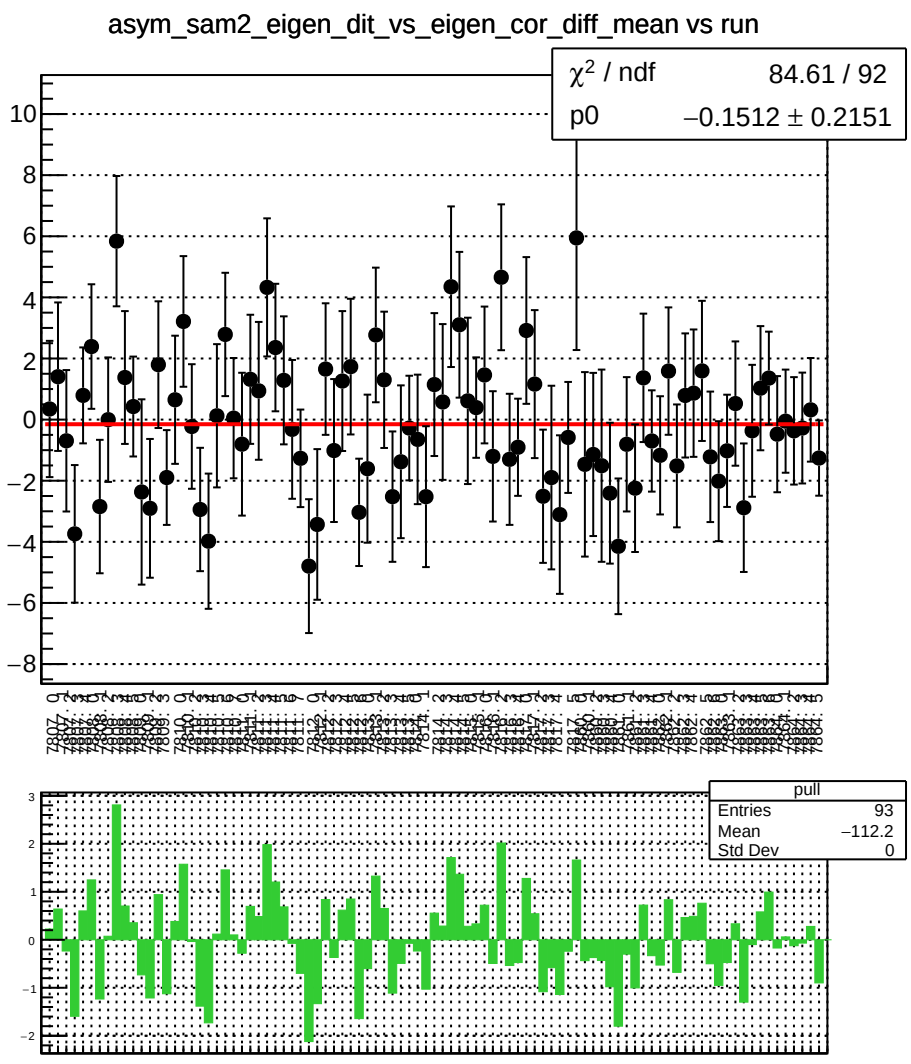

pull1D
Entries 93
Mean −0.03363
Std Dev 0.9441

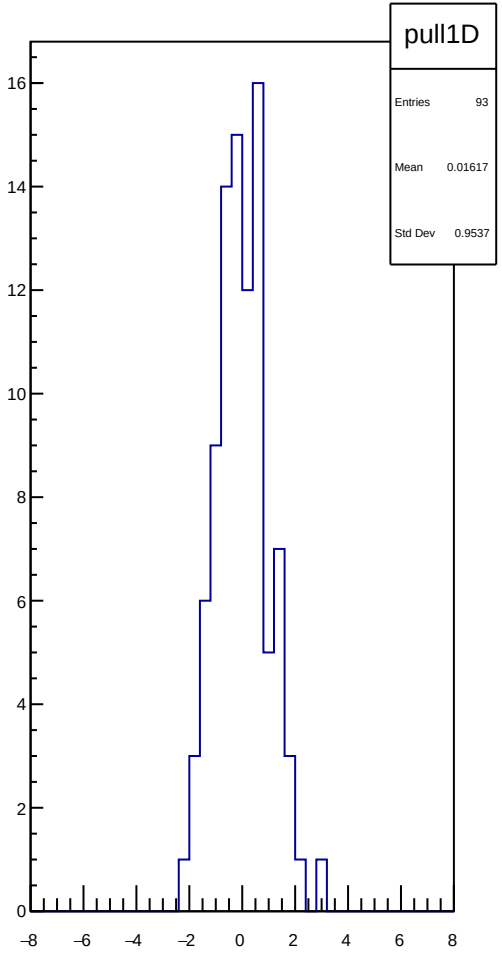

asym_sam2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.362e+05 / 92
p0 0.006401 ± 5.2e–06
0.014
0.012
0.01
0.008
0.006
0.004

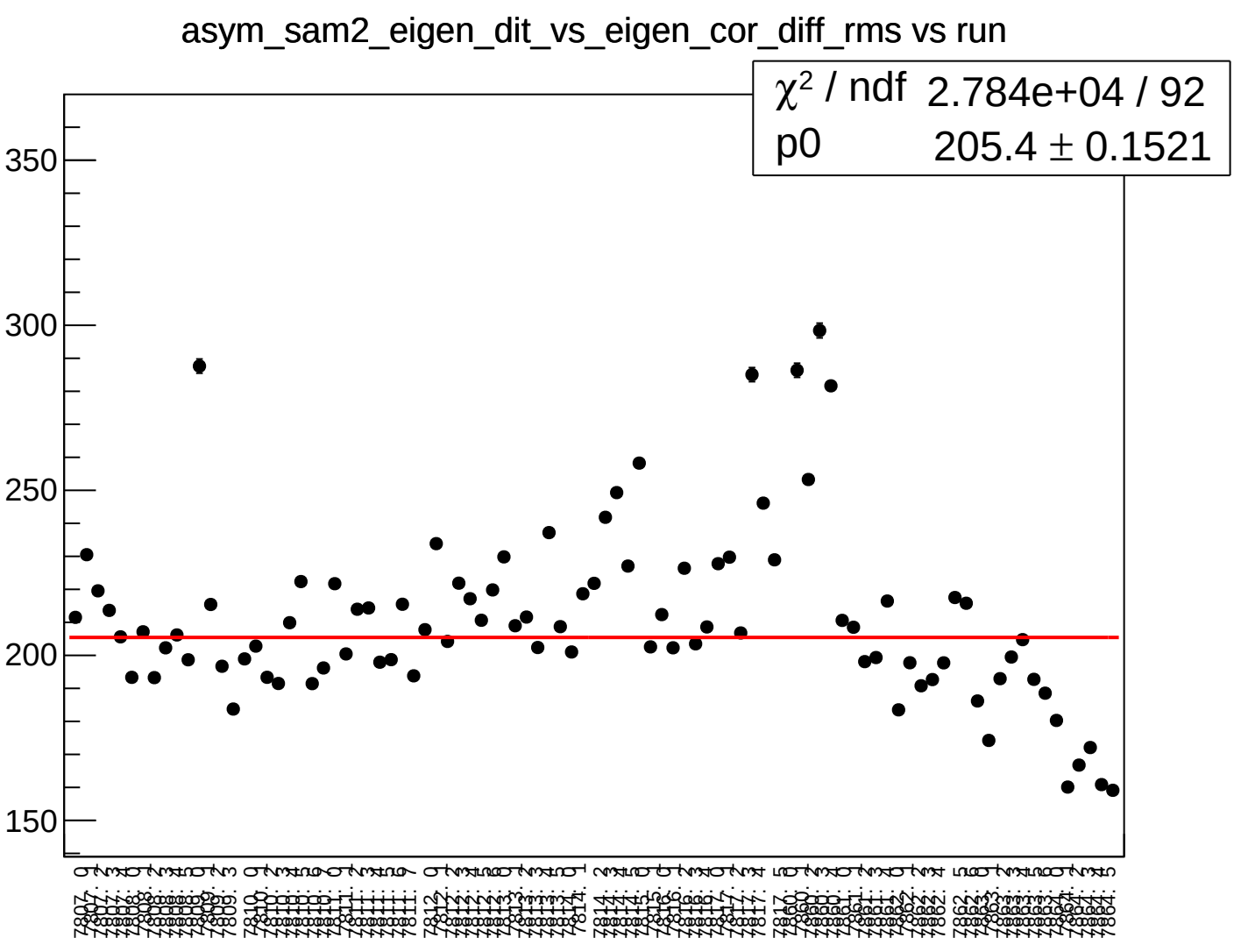

asym_sam2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.61 / 92
p0 −0.1512 ± 0.2151
pull
Entries 93
Mean −112.2
Std Dev 0

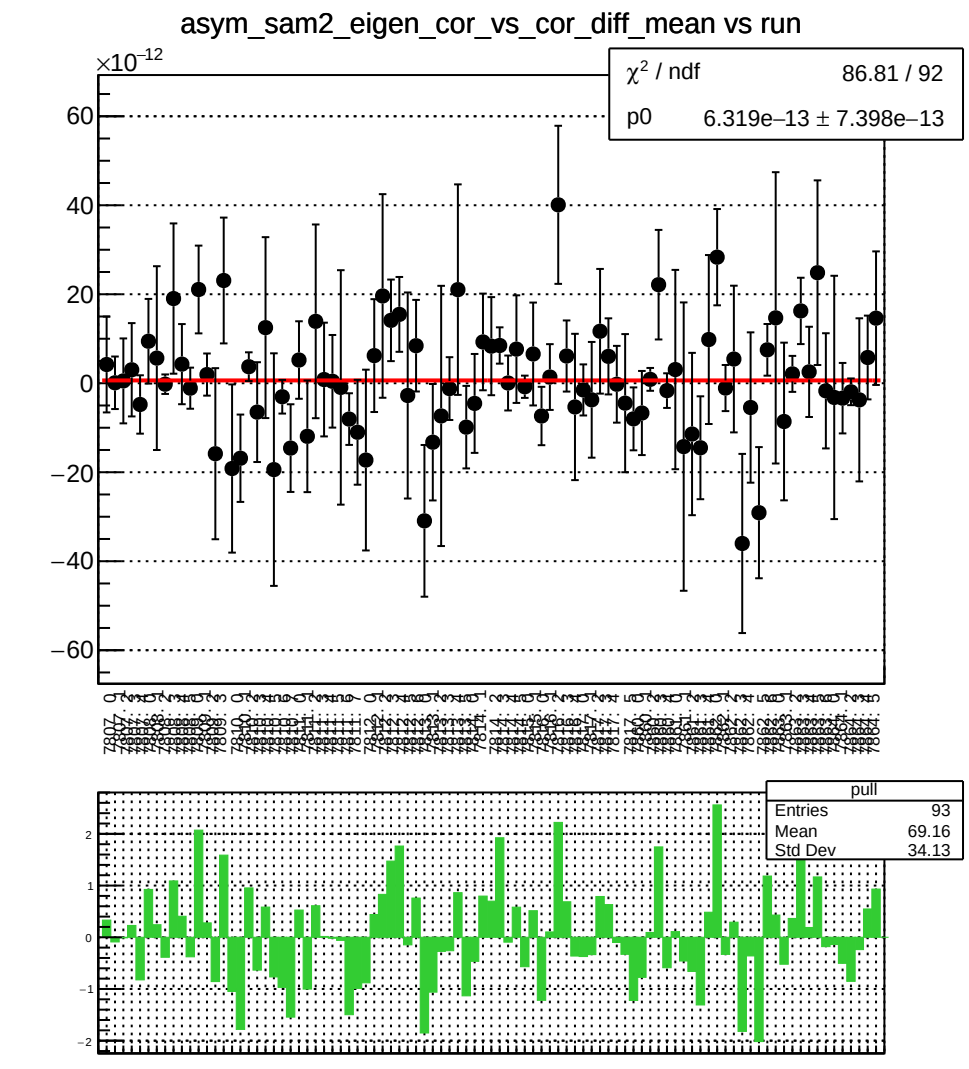

pull1D
Entries 93
Mean 0.01617
Std Dev 0.9537

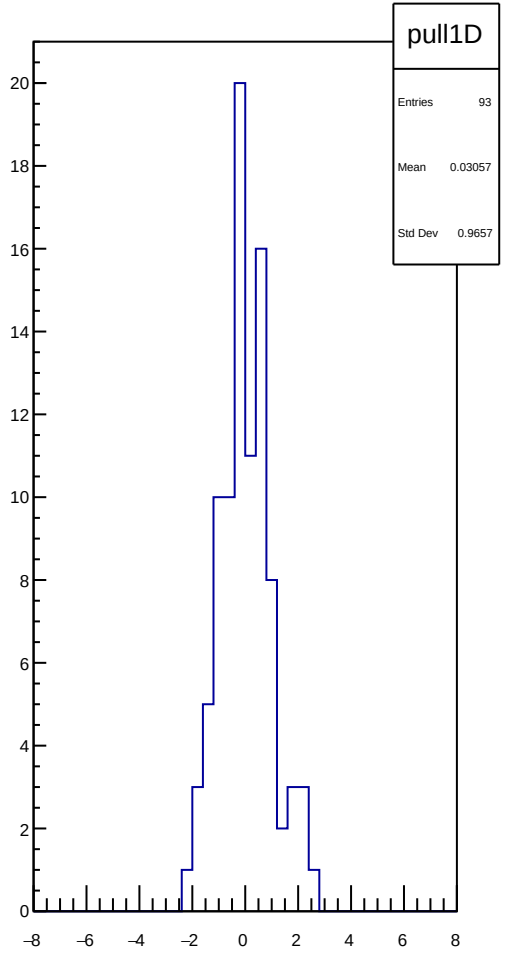

asym_sam2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.784e+04 / 92
p0 205.4 ± 0.1521
350
300
250
200
150

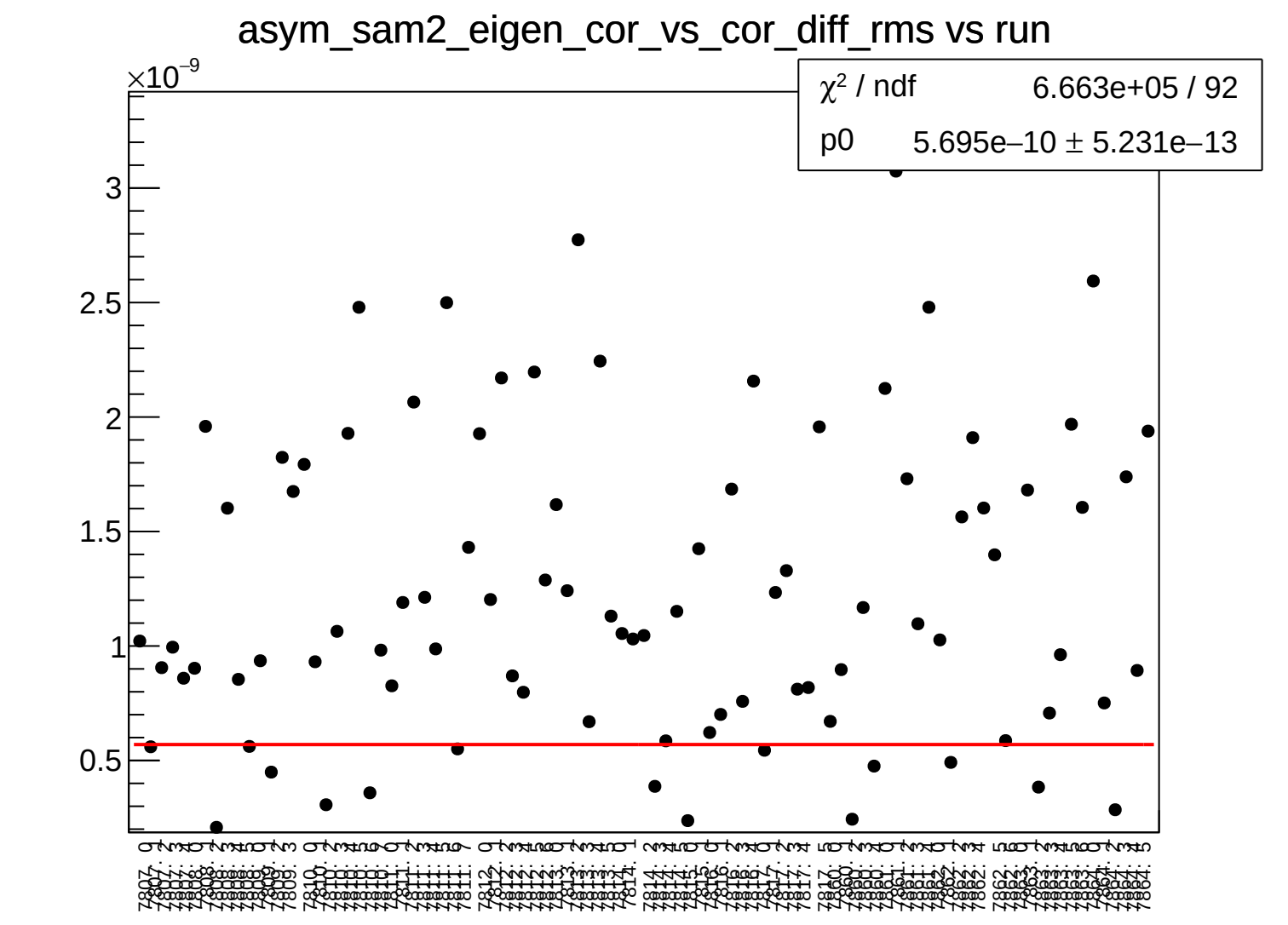

asym_sam2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.61 / 92
p0 −0.1512 ± 0.2151
pull
Entries 93
Mean −112.2
Std Dev 0

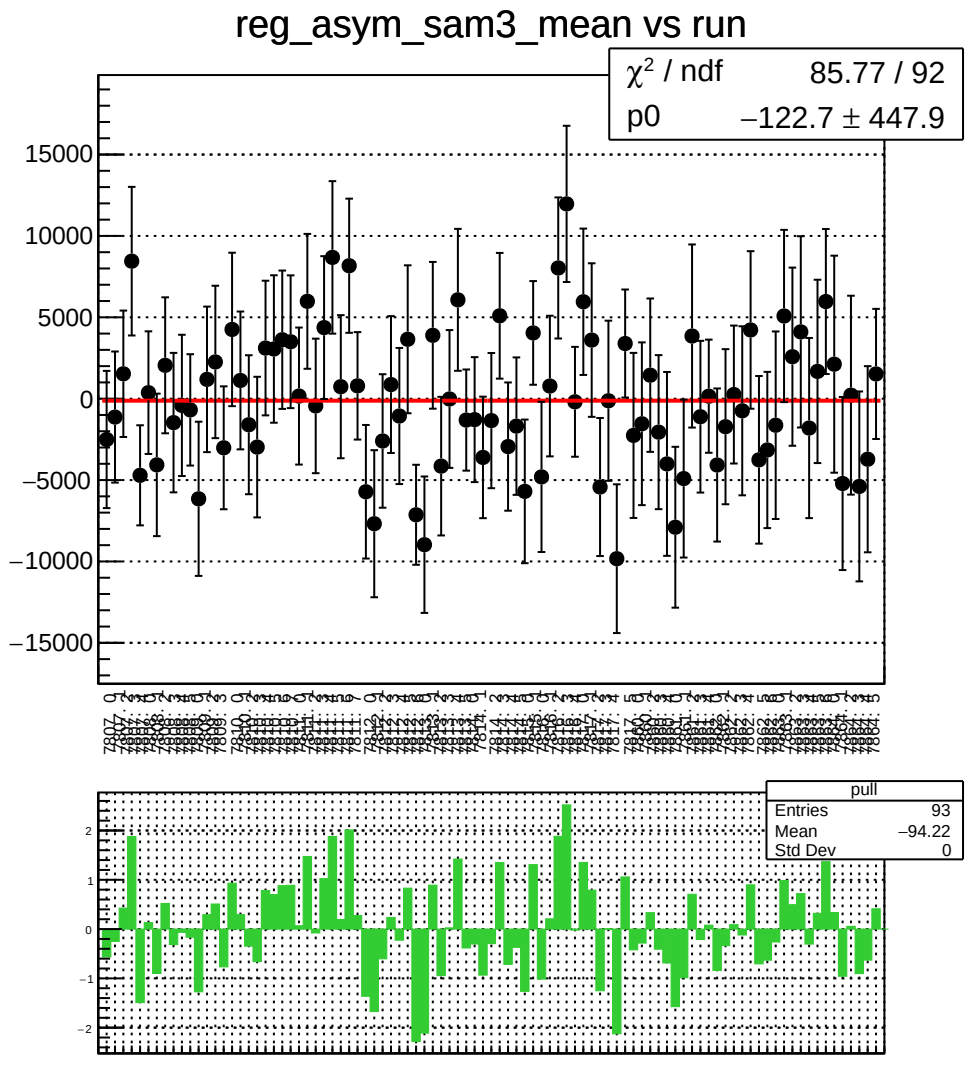

pull1D
Entries 93
Mean 0.01617
Std Dev 0.9537

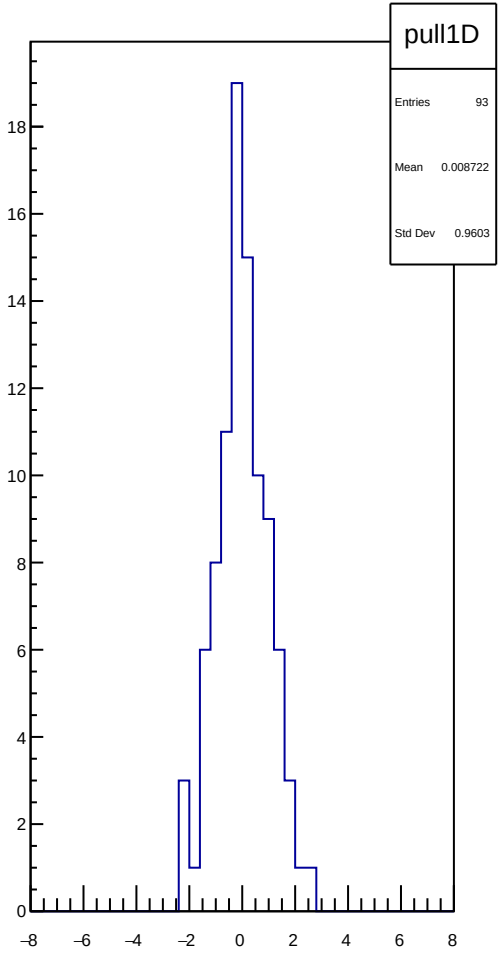

asym_sam2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.784e+04 / 92
p0 205.4 ± 0.1521
350
300
250
200
150

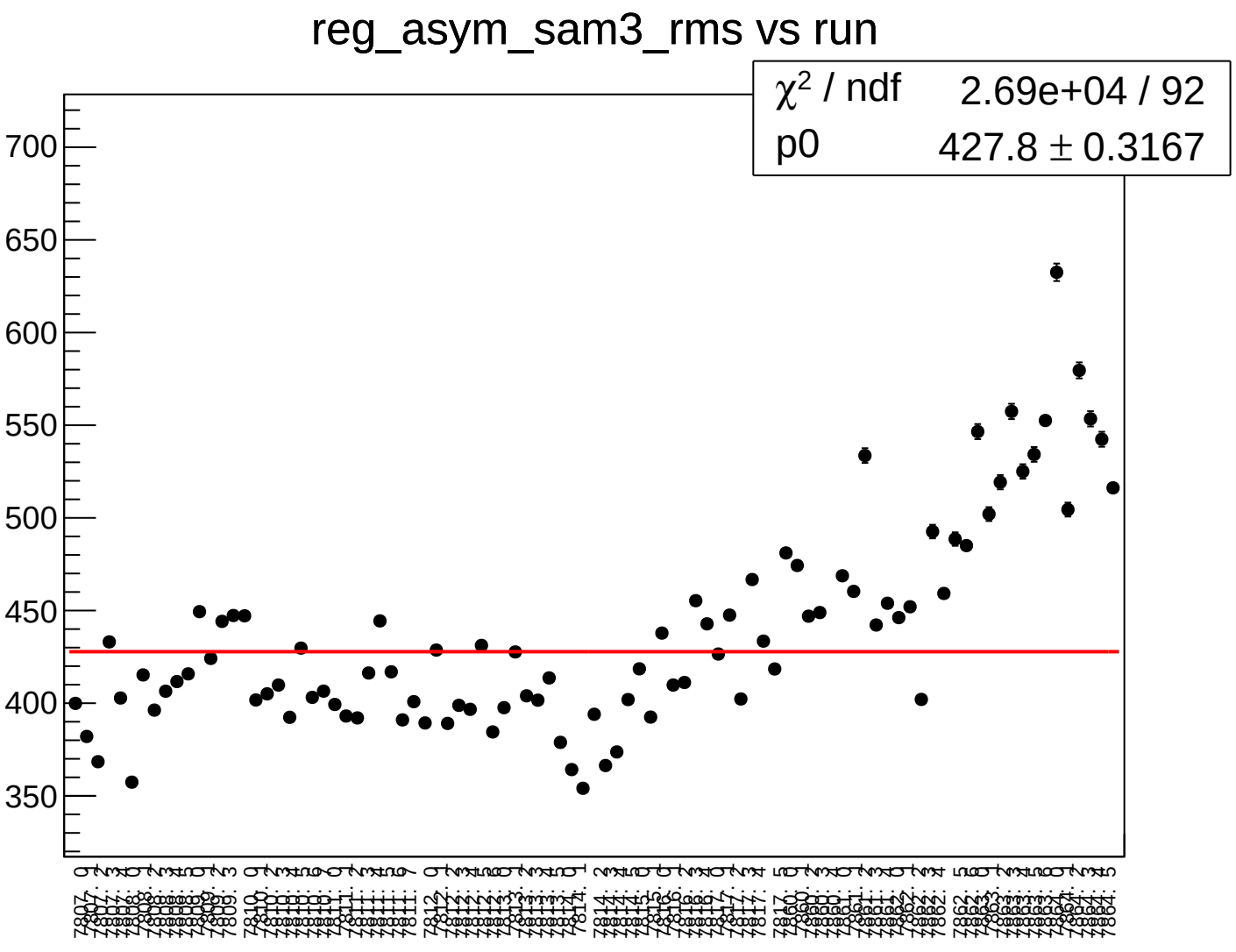

asym_sam2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.81 / 92
p0 6.319e−13 ± 7.398e−13
pull
Entries 93
Mean 69.16
Std Dev 34.13

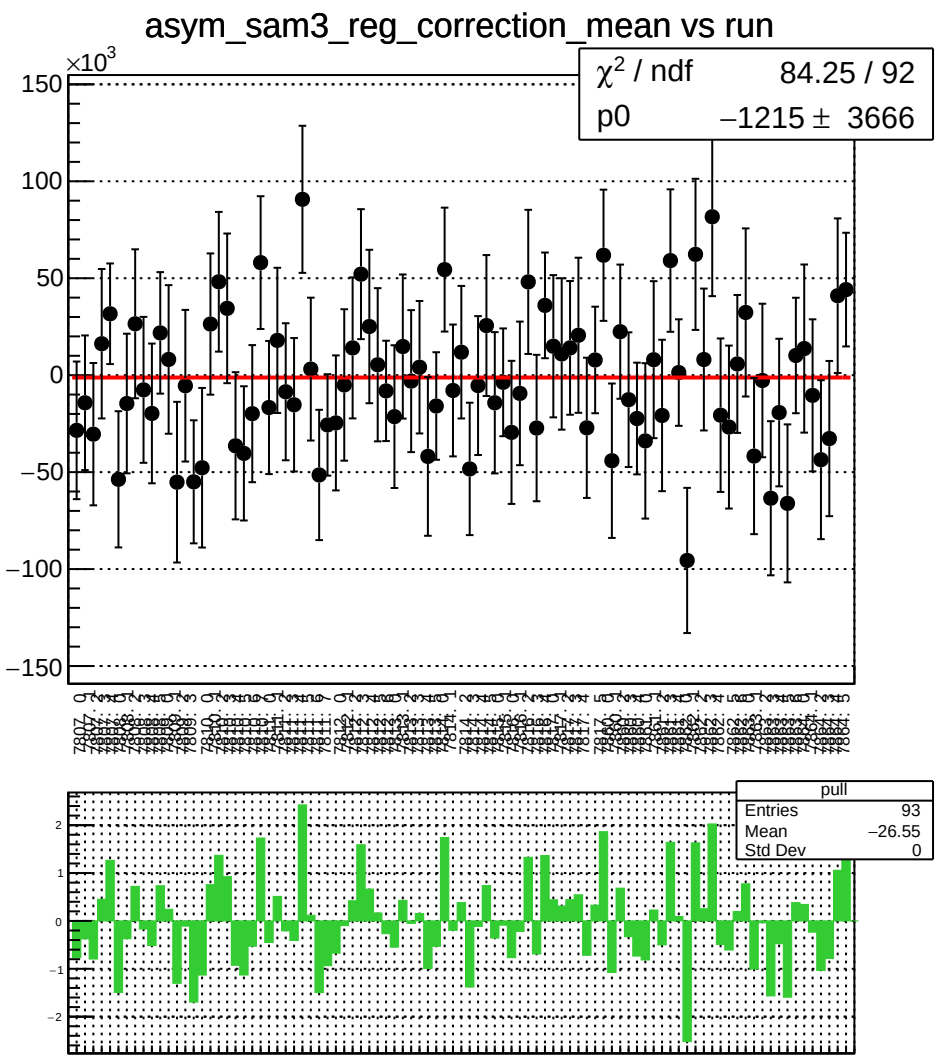

pull1D
Entries 93
Mean 0.03057
Std Dev 0.9657

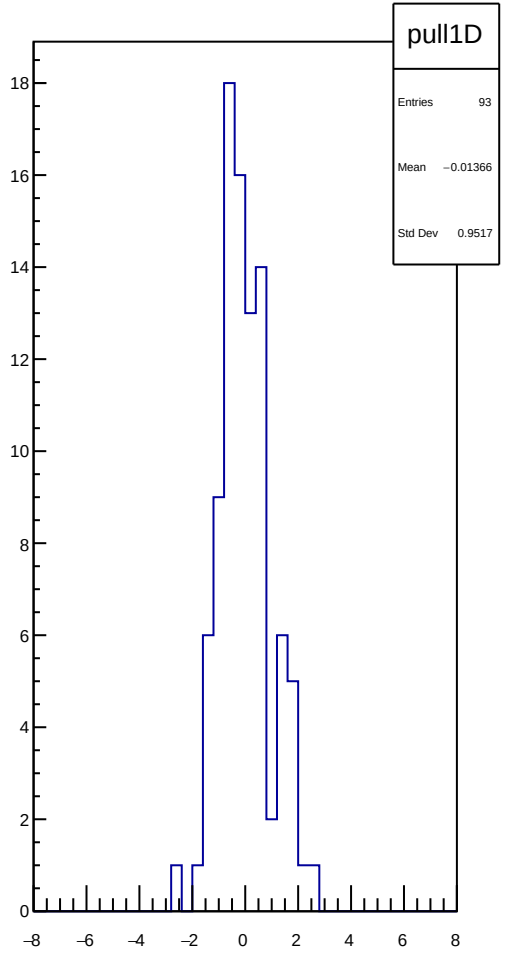

asym_sam2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.663e+05 / 92
p0 5.695e−10 ± 5.231e−13
3
2.5
2
1.5
1
0.5

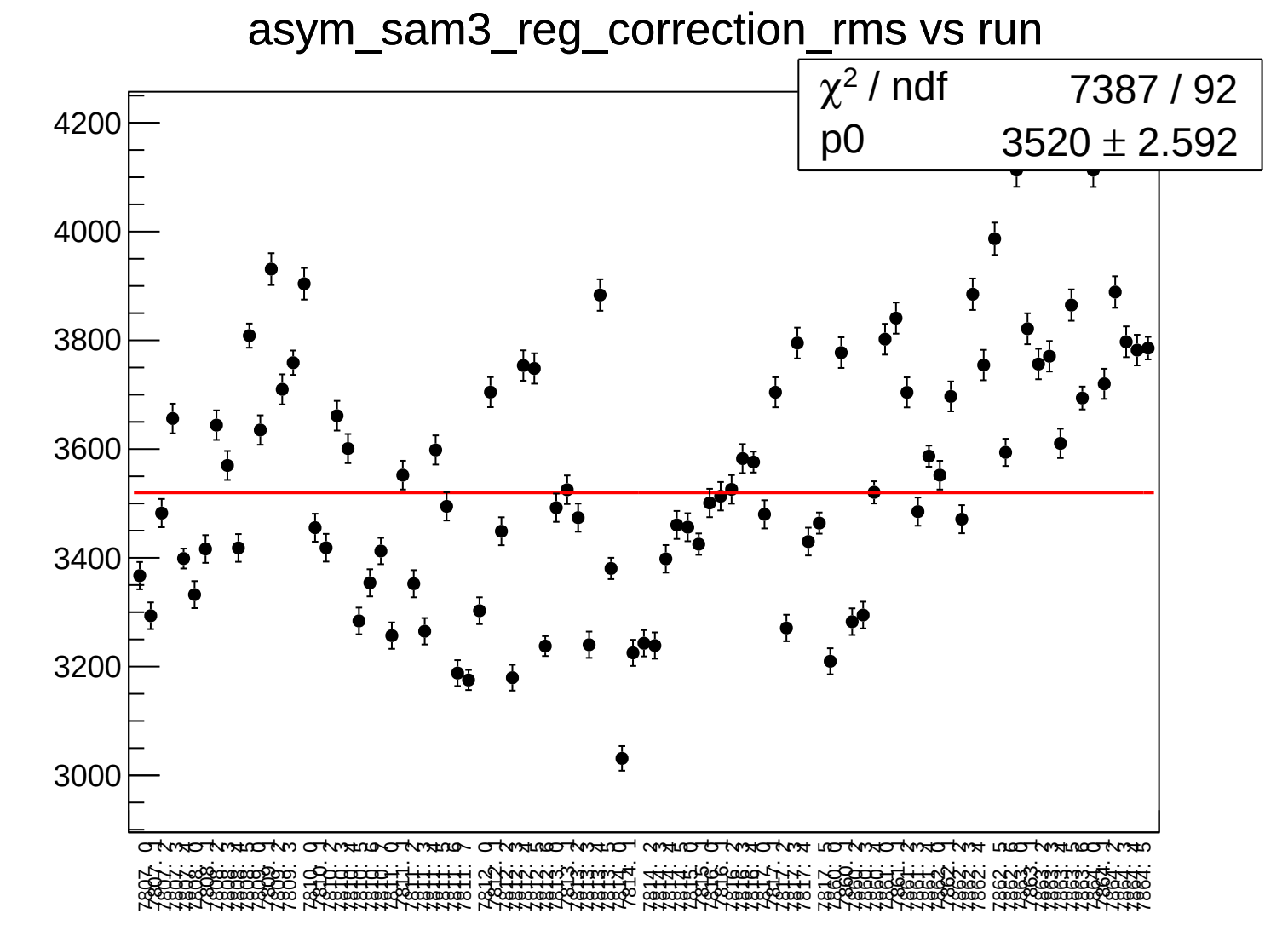

reg_asym_sam3_mean vs run
χ² / ndf 85.77 / 92
p0 −122.7 ± 447.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean −94.22
Std Dev 0
2
1
0
−1
−2

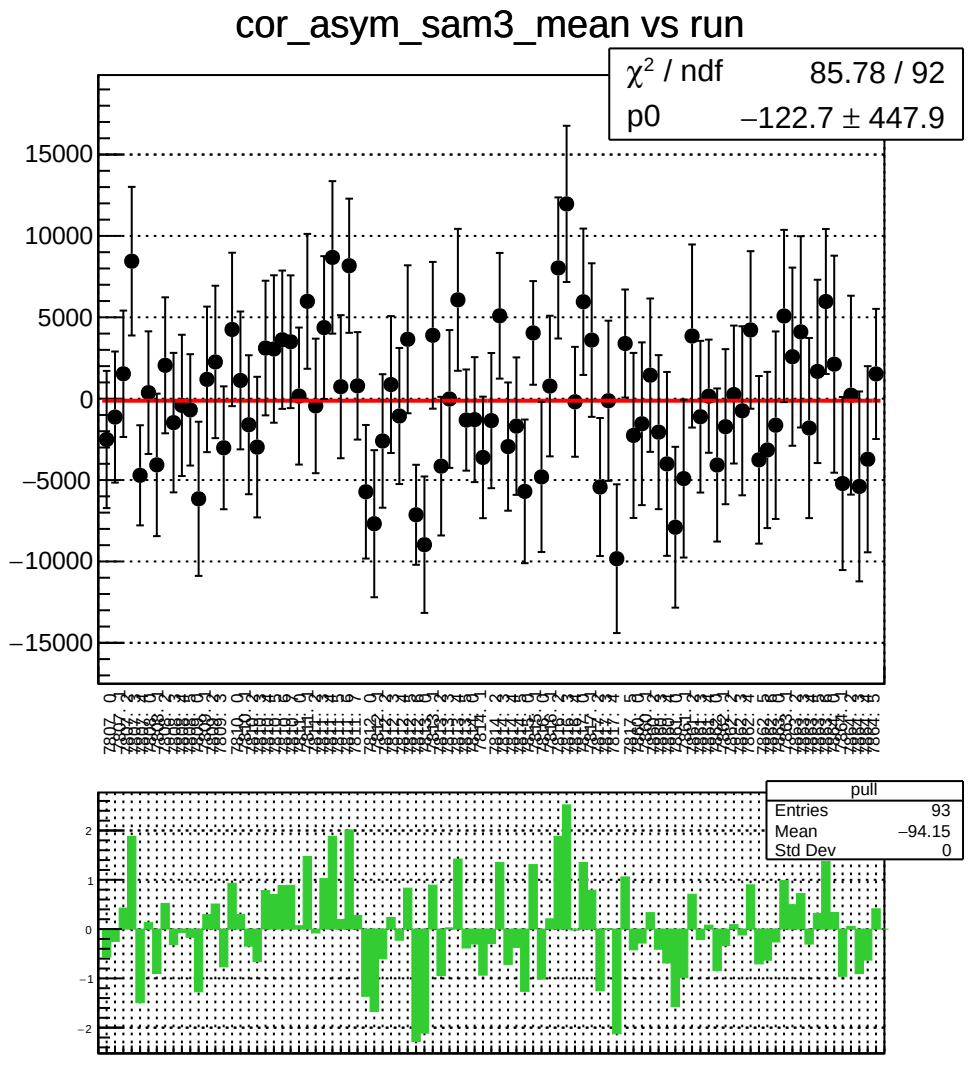

pull1D
Entries 93
Mean 0.008722
Std Dev 0.9603
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

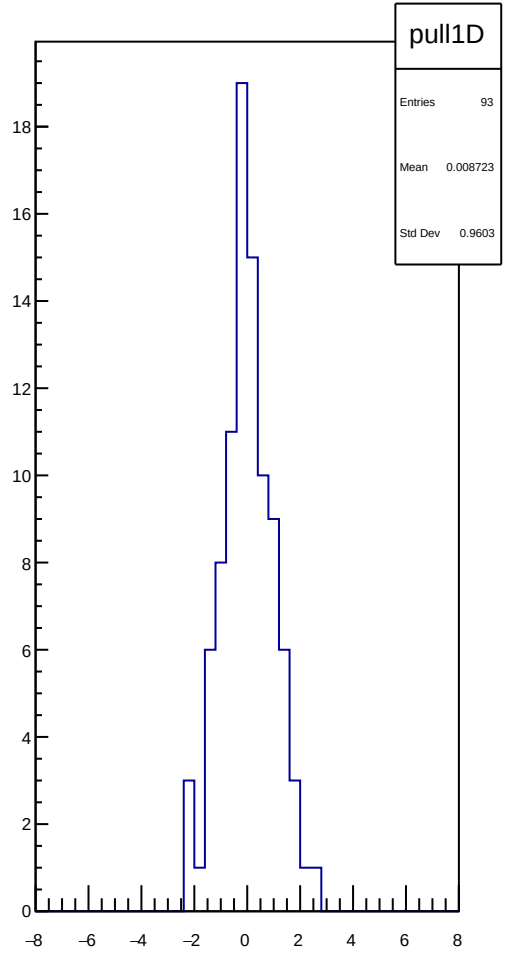

reg_asym_sam3_rms vs run
χ² / ndf 2.69e+04 / 92
p0 427.8 ± 0.3167
700
650
600
550
500
450
400
350

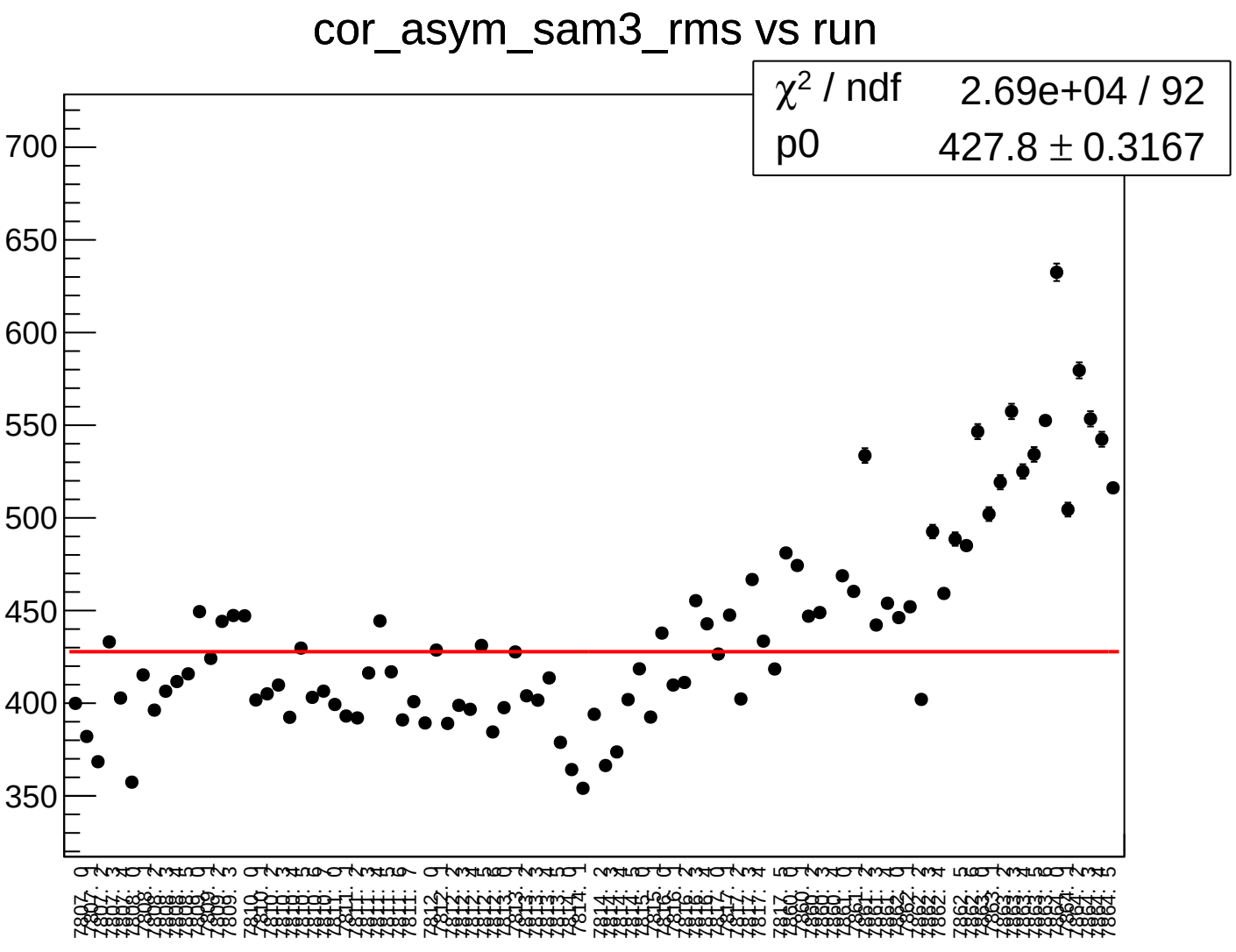

asym_sam3_reg_correction_mean vs run
χ² / ndf 84.25 / 92
p0 −1215 ± 3666
×10³
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean −26.55
Std Dev 0
2
1
0
−1
−2

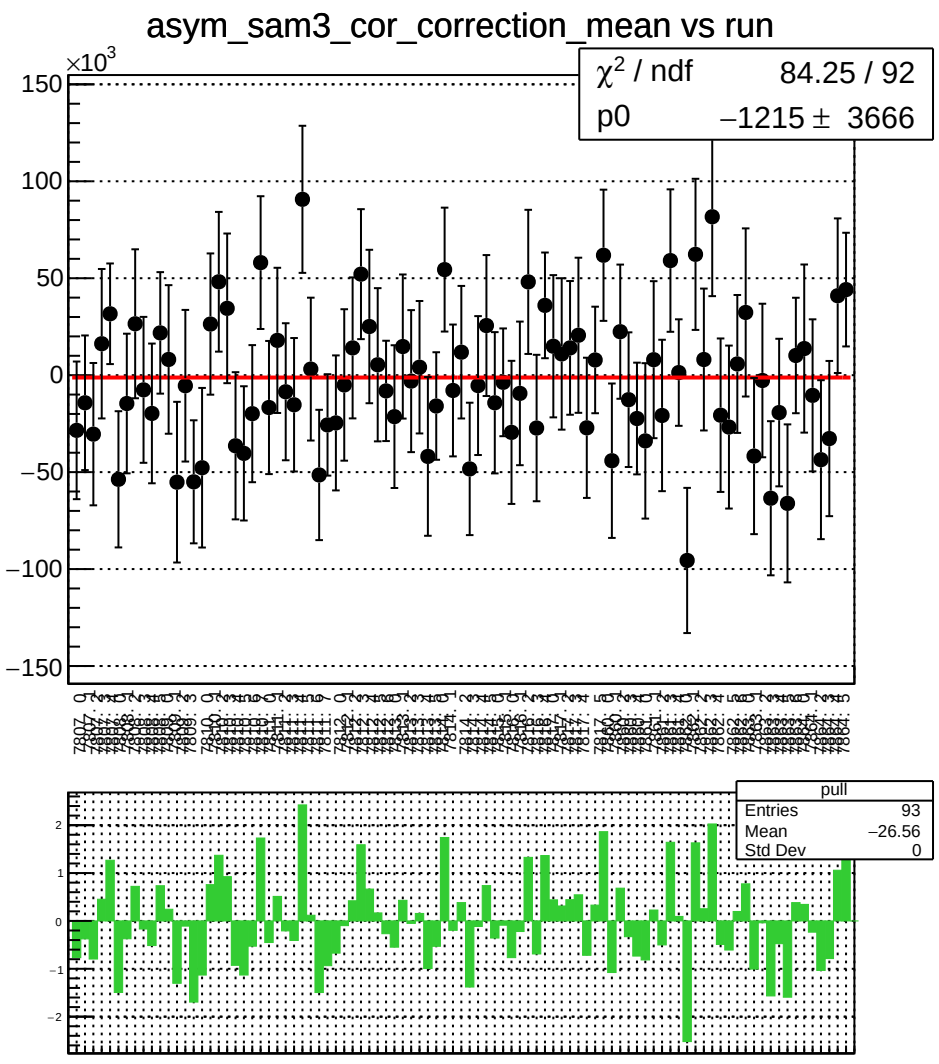

pull1D
Entries 93
Mean −0.01366
Std Dev 0.9517
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

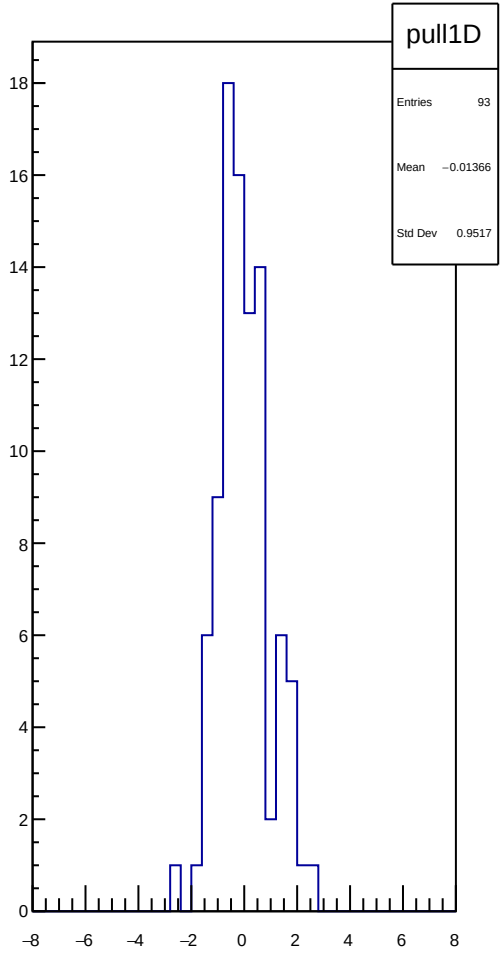

asym_sam3_reg_correction_rms vs run
χ² / ndf 7387 / 92
p0 3520 ± 2.592
4200
4000
3800
3600
3400
3200
3000

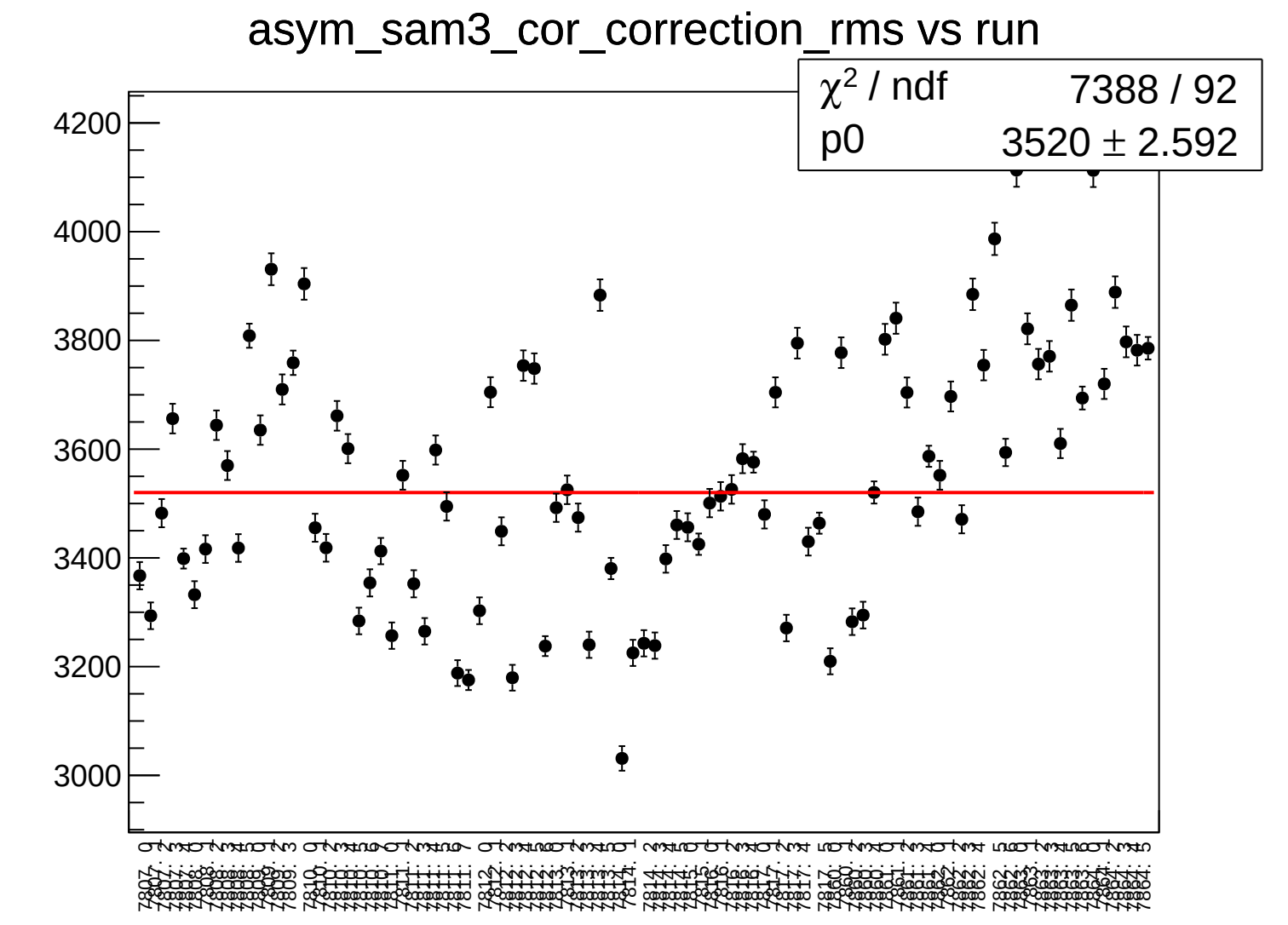

cor_asym_sam3_mean vs run
χ² / ndf 85.78 / 92
p0 −122.7 ± 447.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean −94.15
Std Dev 0
2
1
0
−1
−2

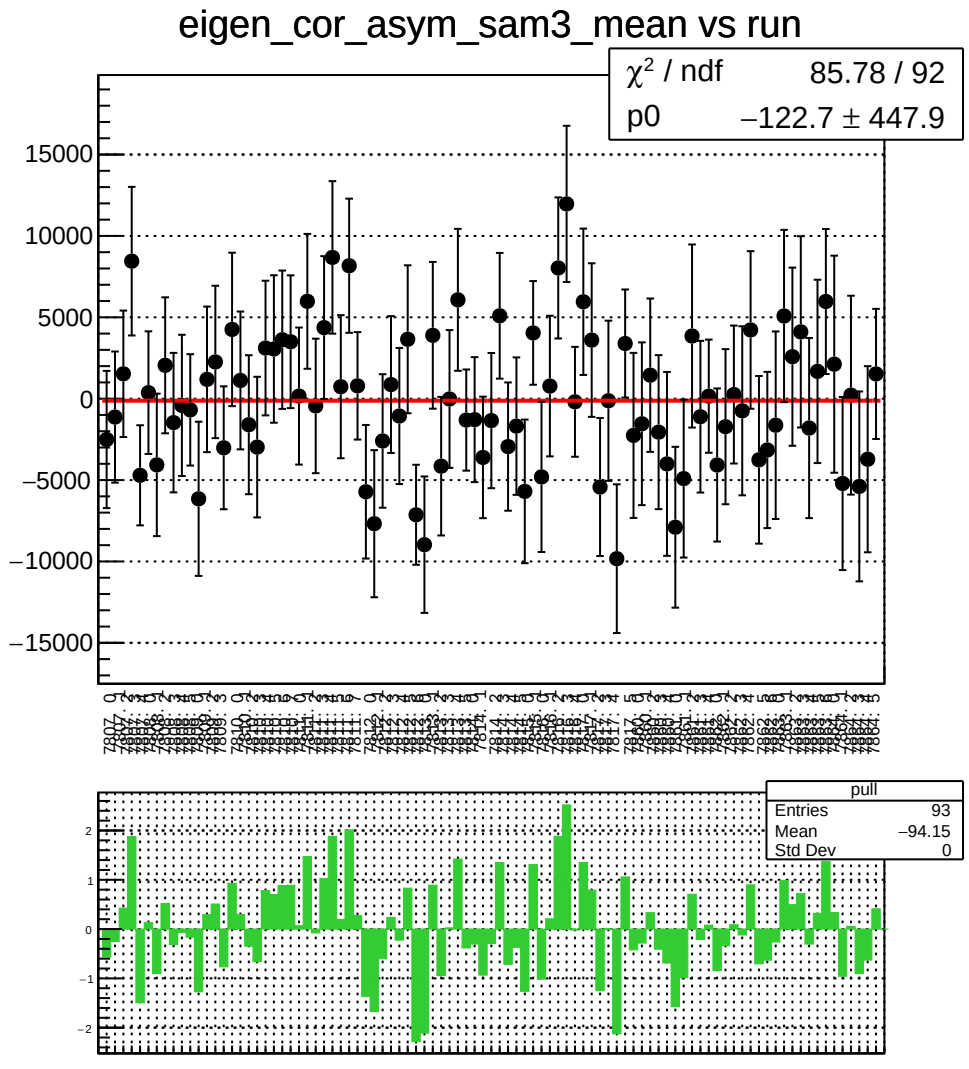

pull1D
Entries 93
Mean 0.008723
Std Dev 0.9603
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

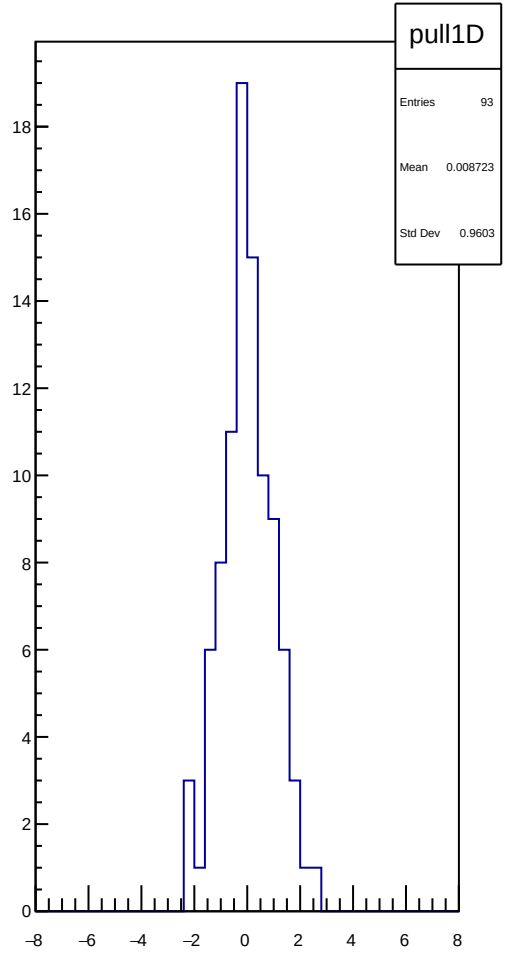

cor_asym_sam3_rms vs run
χ² / ndf 2.69e+04 / 92
p0 427.8 ± 0.3167
700
650
600
550
500
450
400
350

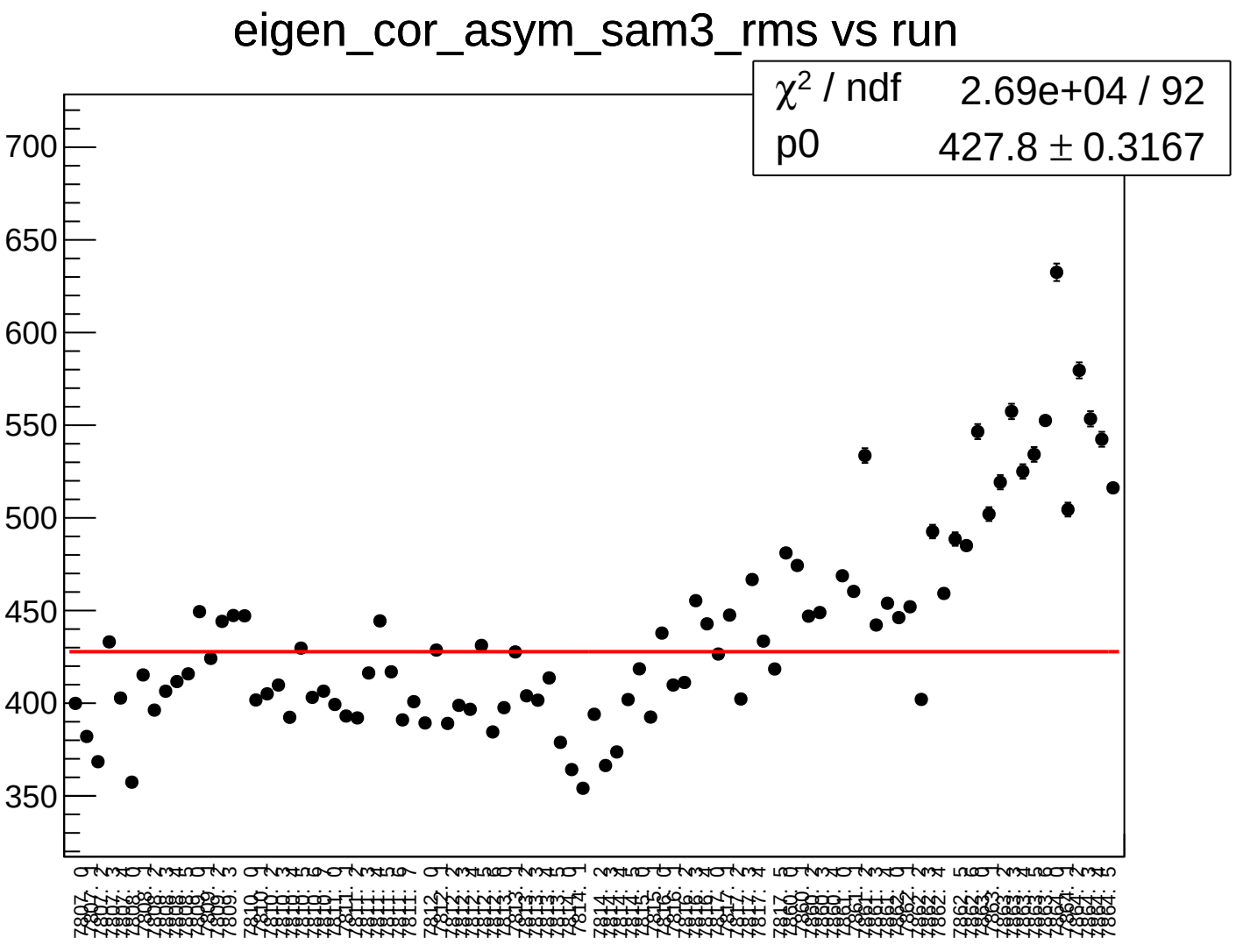

asym_sam3_cor_correction_mean vs run
×10^3
χ² / ndf 84.25 / 92
p0 −1215 ± 3666
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean −26.56
Std Dev 0
2
1
0
−1
−2

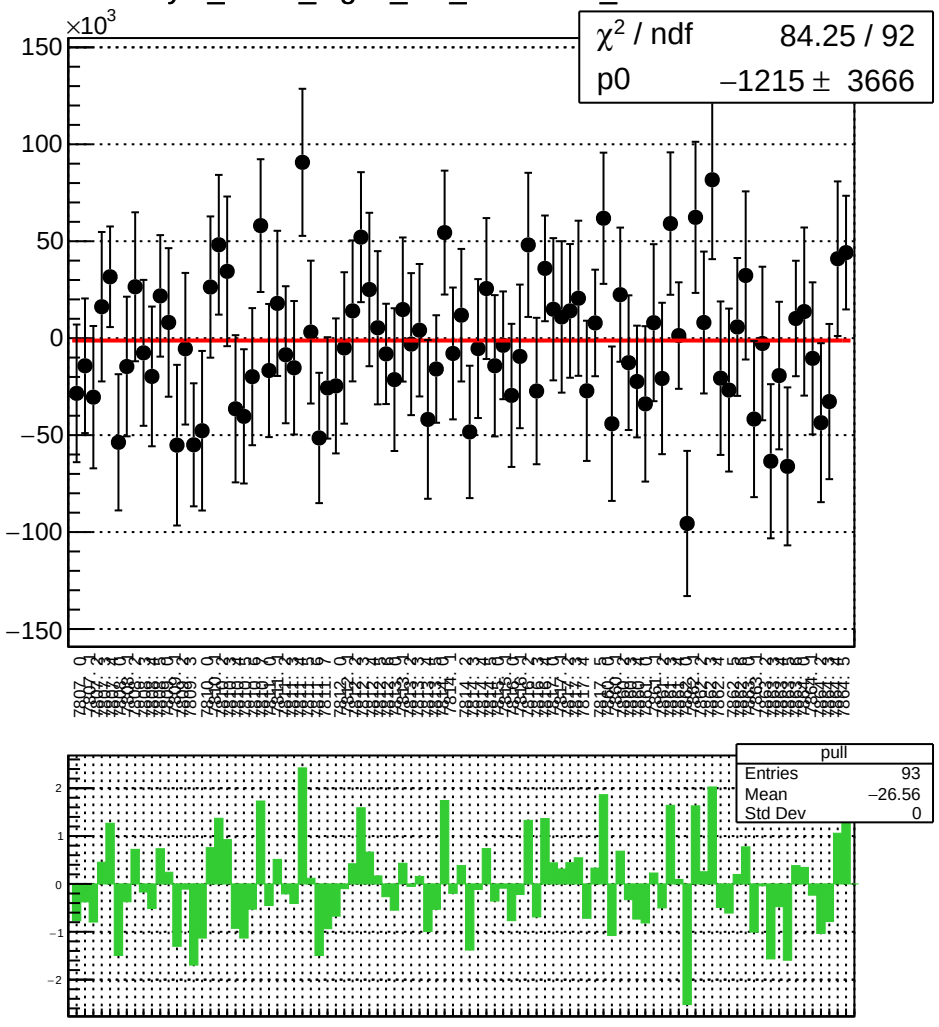

pull1D
Entries 93
Mean −0.01366
Std Dev 0.9517
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

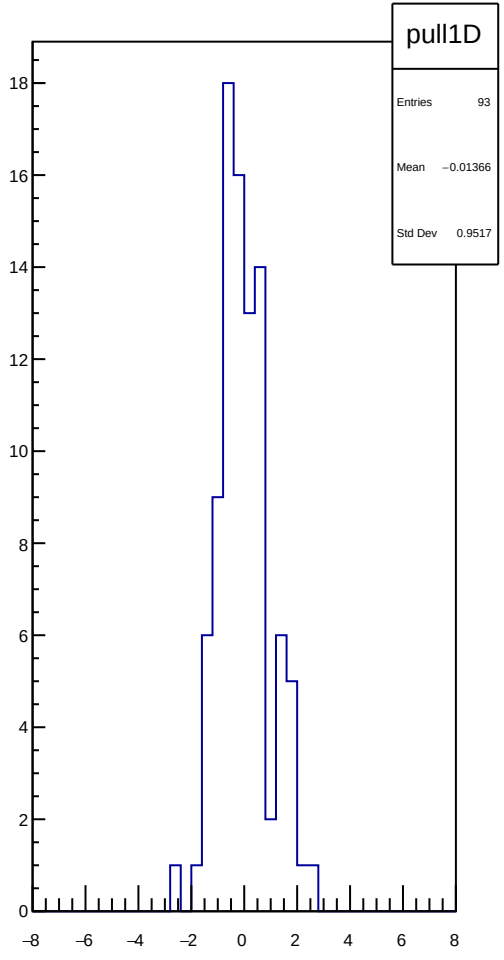

asym_sam3_cor_correction_rms vs run
χ² / ndf 7388 / 92
p0 3520 ± 2.592
4200
4000
3800
3600
3400
3200
3000

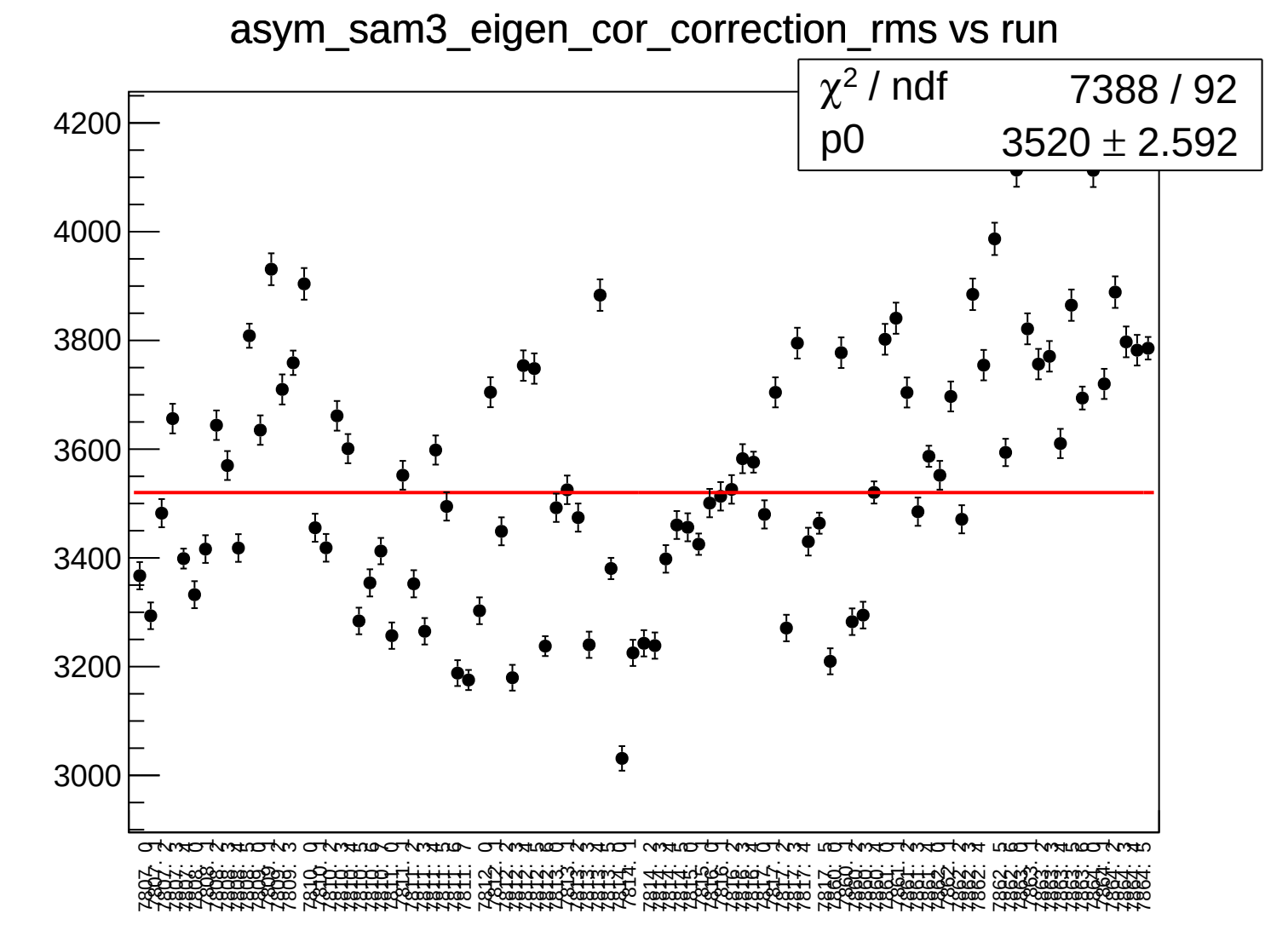

eigen_cor_asym_sam3_mean vs run
χ² / ndf 85.78 / 92
p0 −122.7 ± 447.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean −94.15
Std Dev 0
2
1
0
−1
−2

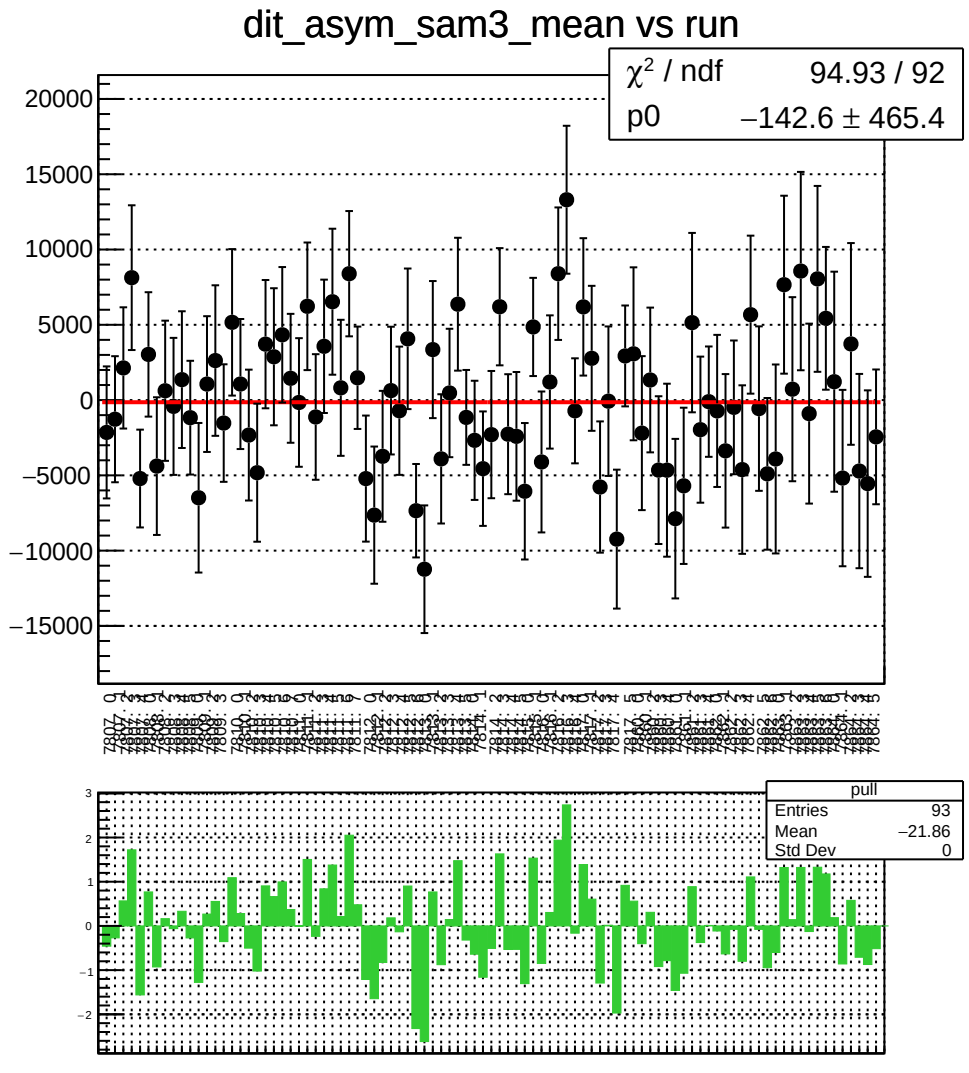

pull1D
Entries 93
Mean 0.008723
Std Dev 0.9603
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

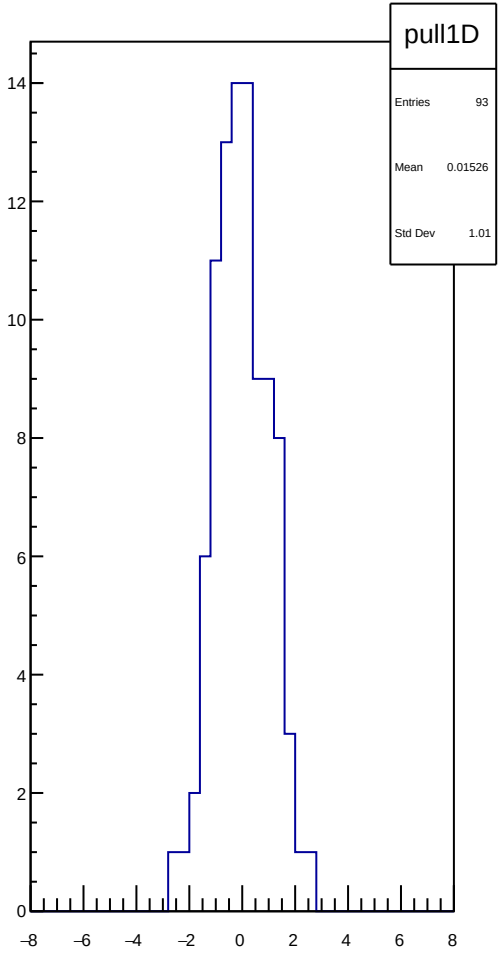

eigen_cor_asym_sam3_rms vs run
χ² / ndf 2.69e+04 / 92
p0 427.8 ± 0.3167
700
650
600
550
500
450
400
350

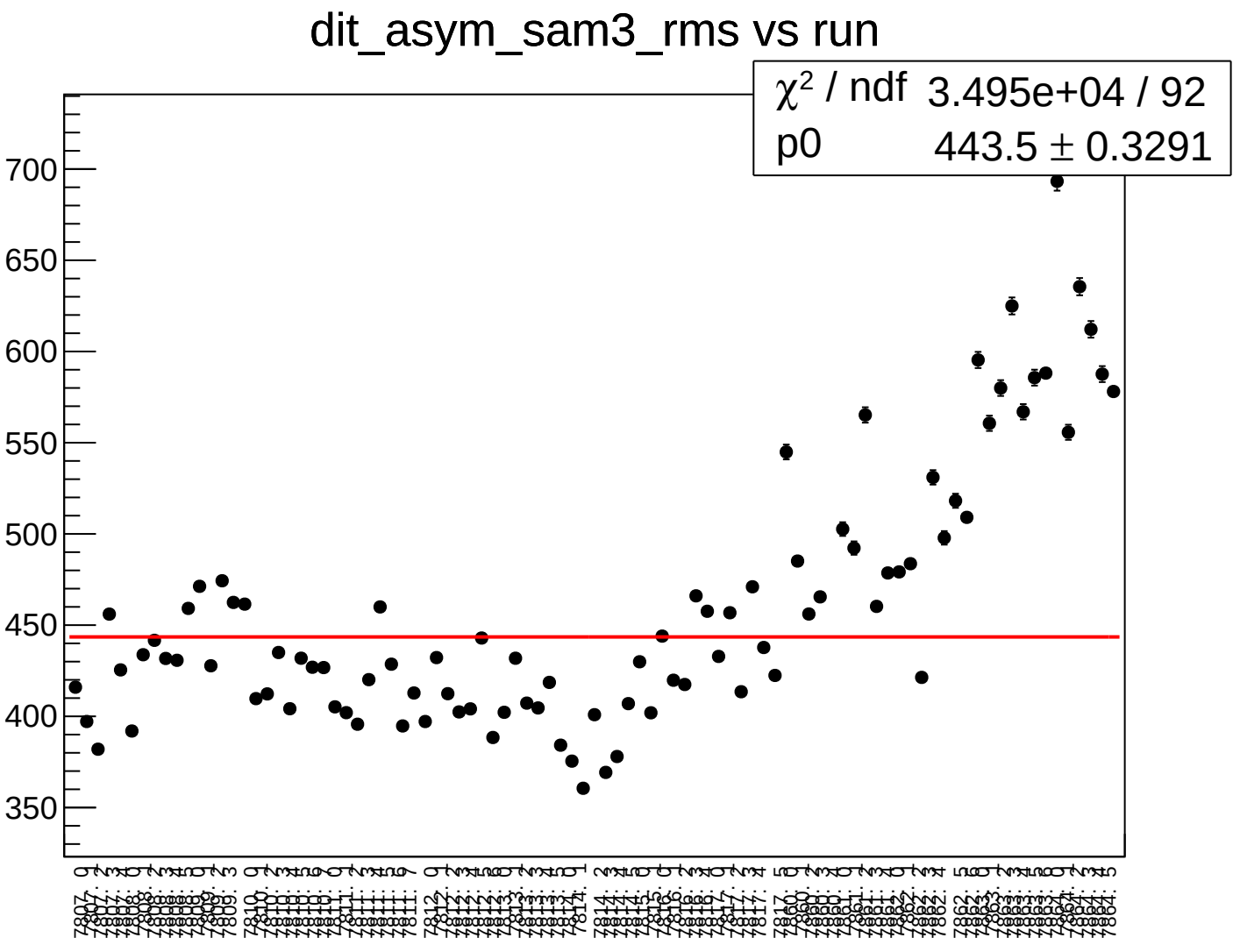

asym_sam3_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 84.25 / 92
p0 −1215 ± 3666
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean −26.56
Std Dev 0
2
1
0
−1
−2

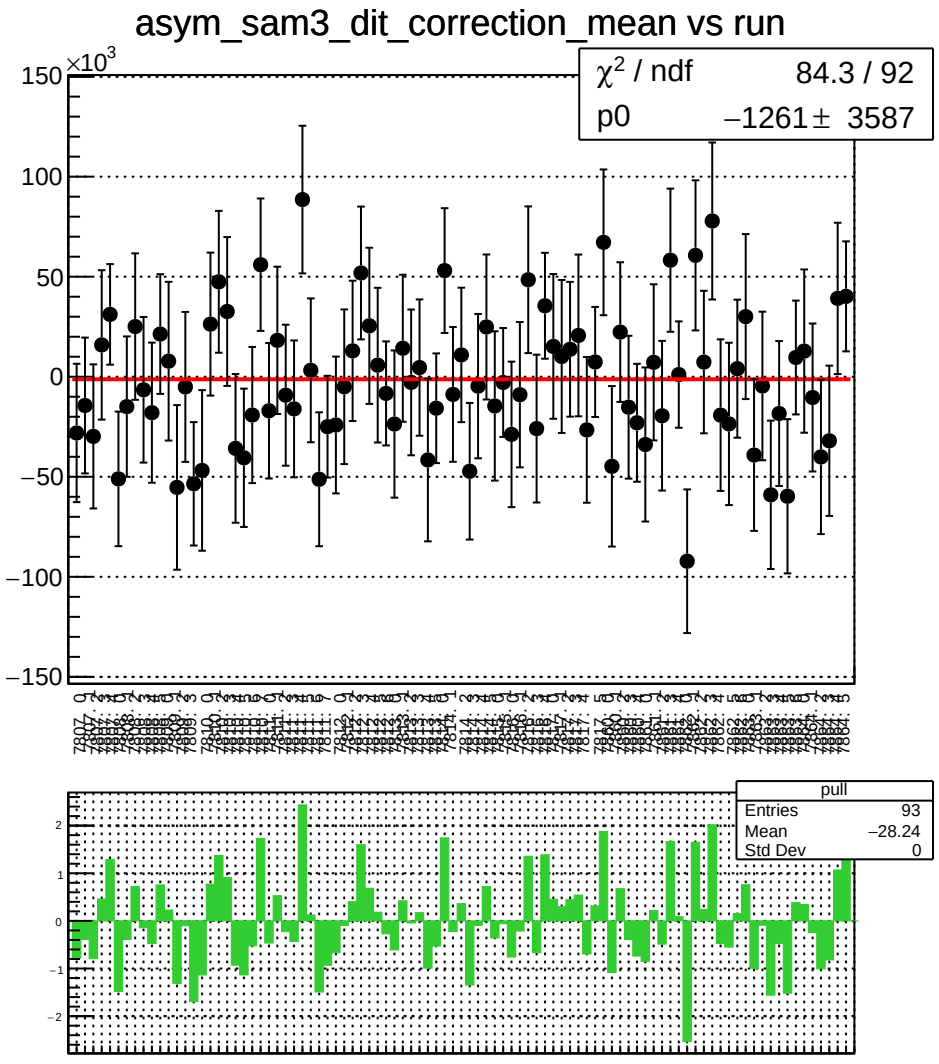

pull1D
Entries 93
Mean −0.01366
Std Dev 0.9517
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

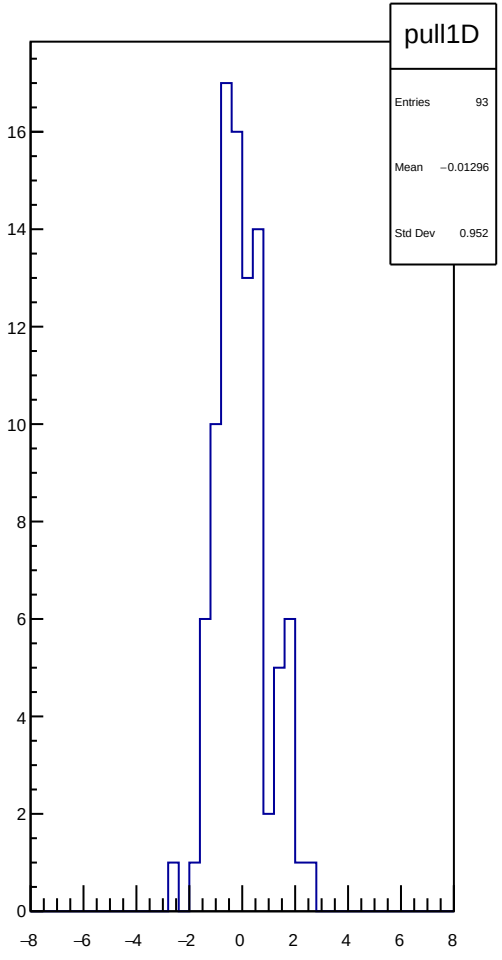

asym_sam3_eigen_cor_correction_rms vs run
χ^2 / ndf 7388 / 92
p0 3520 ± 2.592
4200
4000
3800
3600
3400
3200
3000

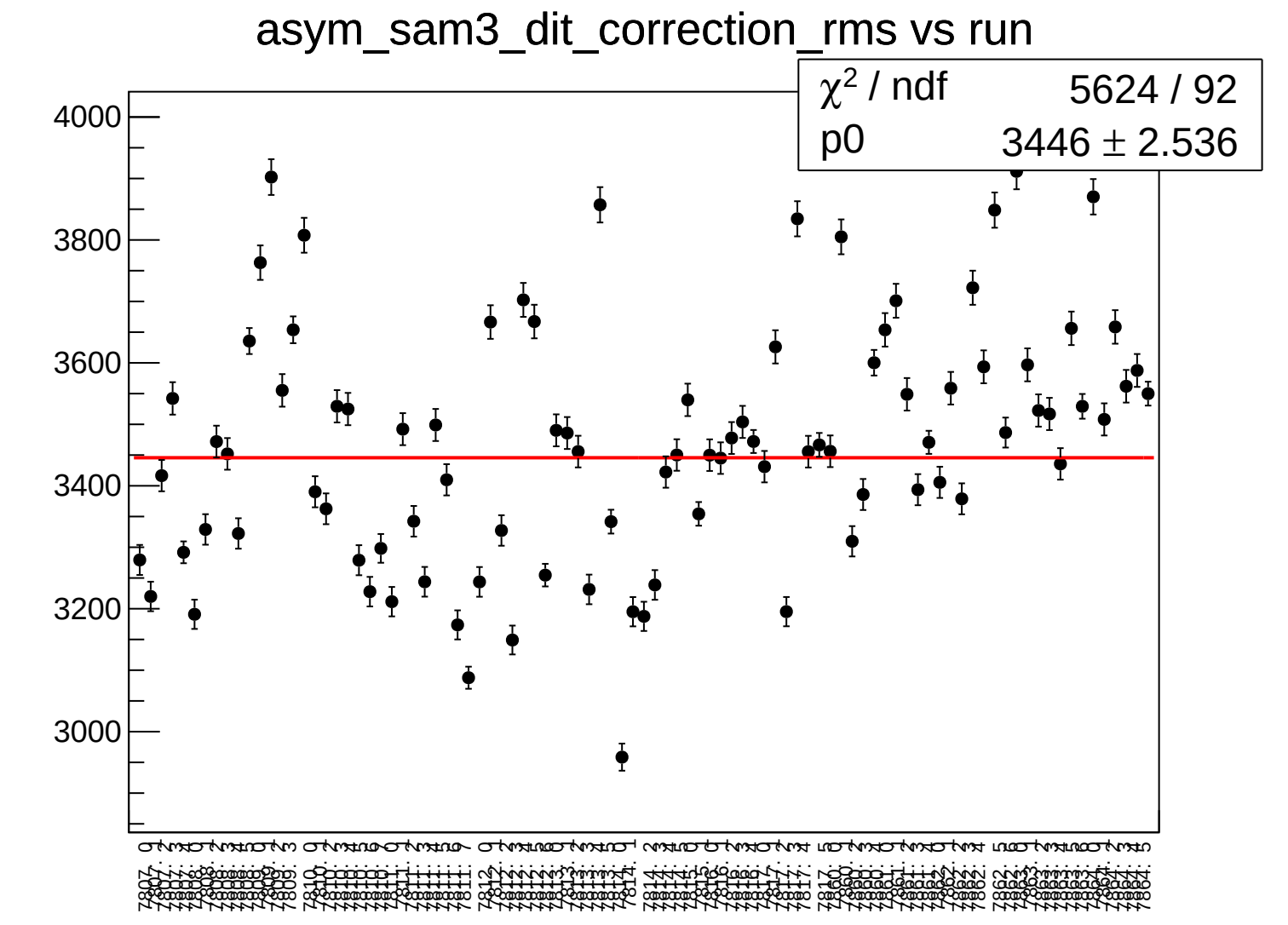

dit_asym_sam3_mean vs run
χ² / ndf 94.93 / 92
p0 −142.6 ± 465.4
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean −21.86
Std Dev 0
3
2
1
0
−1
−2

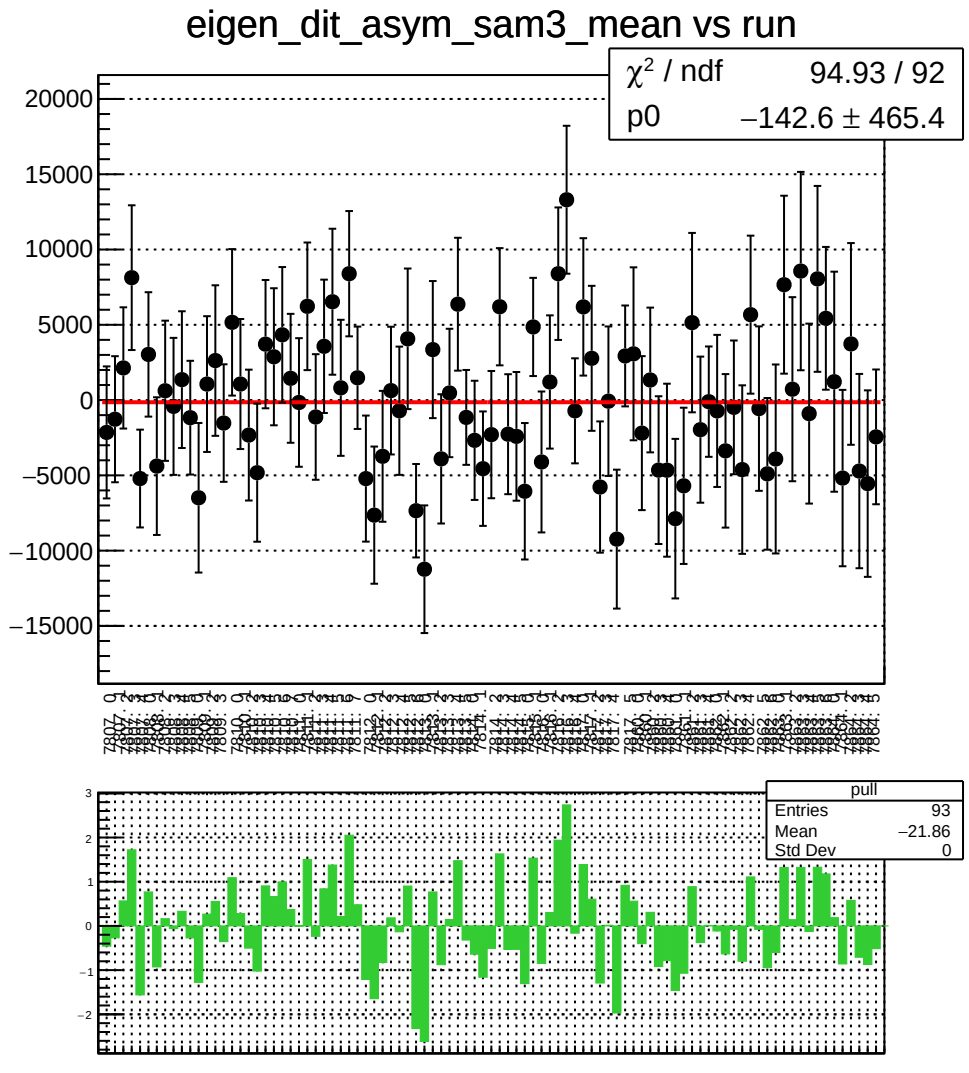

pull1D
Entries 93
Mean 0.01526
Std Dev 1.01
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

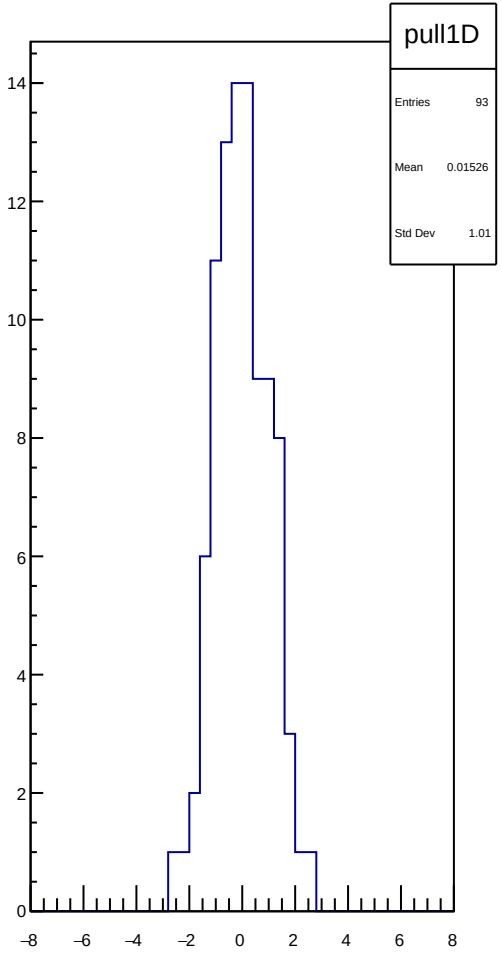

dit_asym_sam3_rms vs run
χ² / ndf 3.495e+04 / 92
p0 443.5 ± 0.3291
700
650
600
550
500
450
400
350

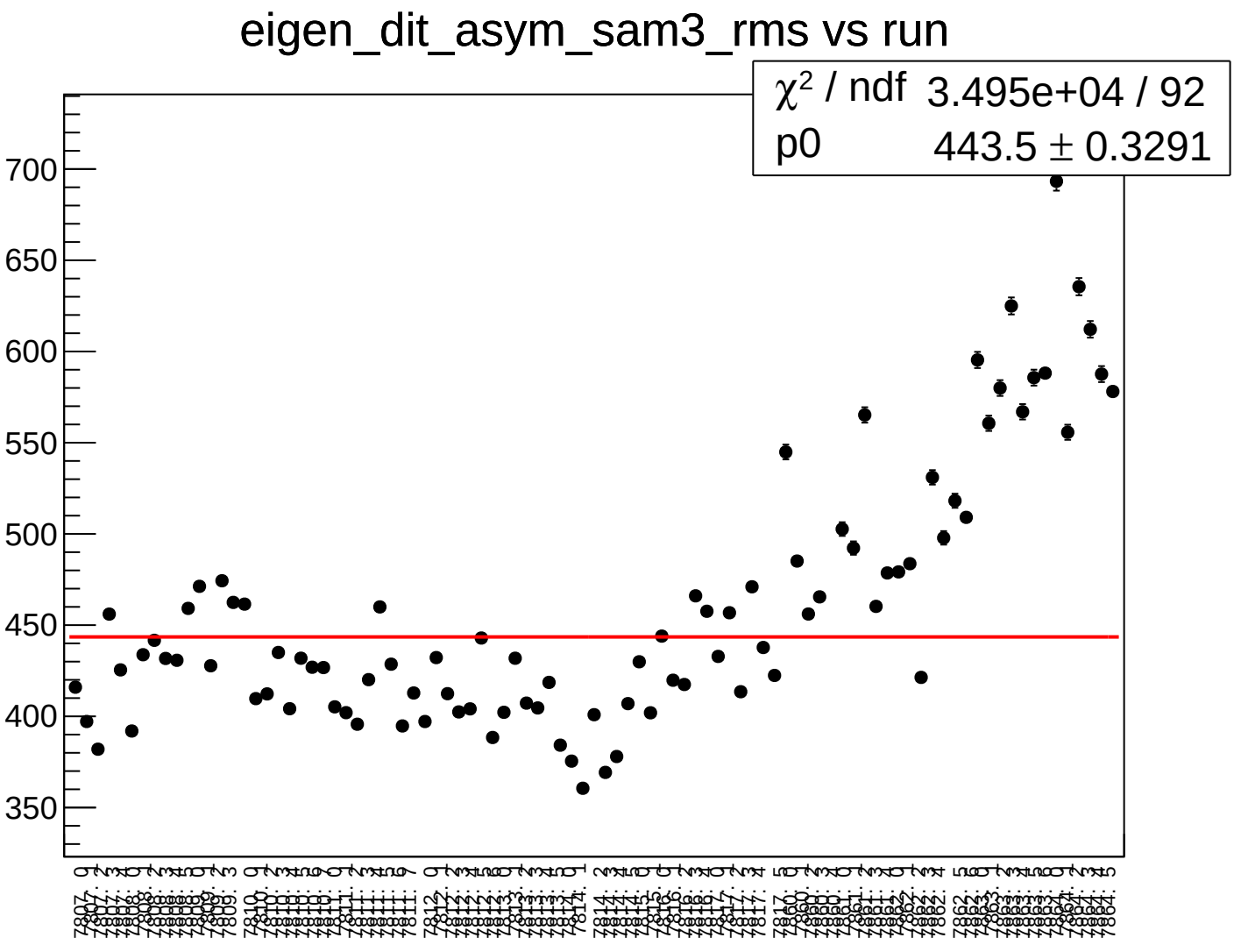

asym_sam3_dit_correction_mean vs run
χ² / ndf 84.3 / 92
p0 −1261 ± 3587
×10³
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean −28.24
Std Dev 0
2
1
0
−1
−2

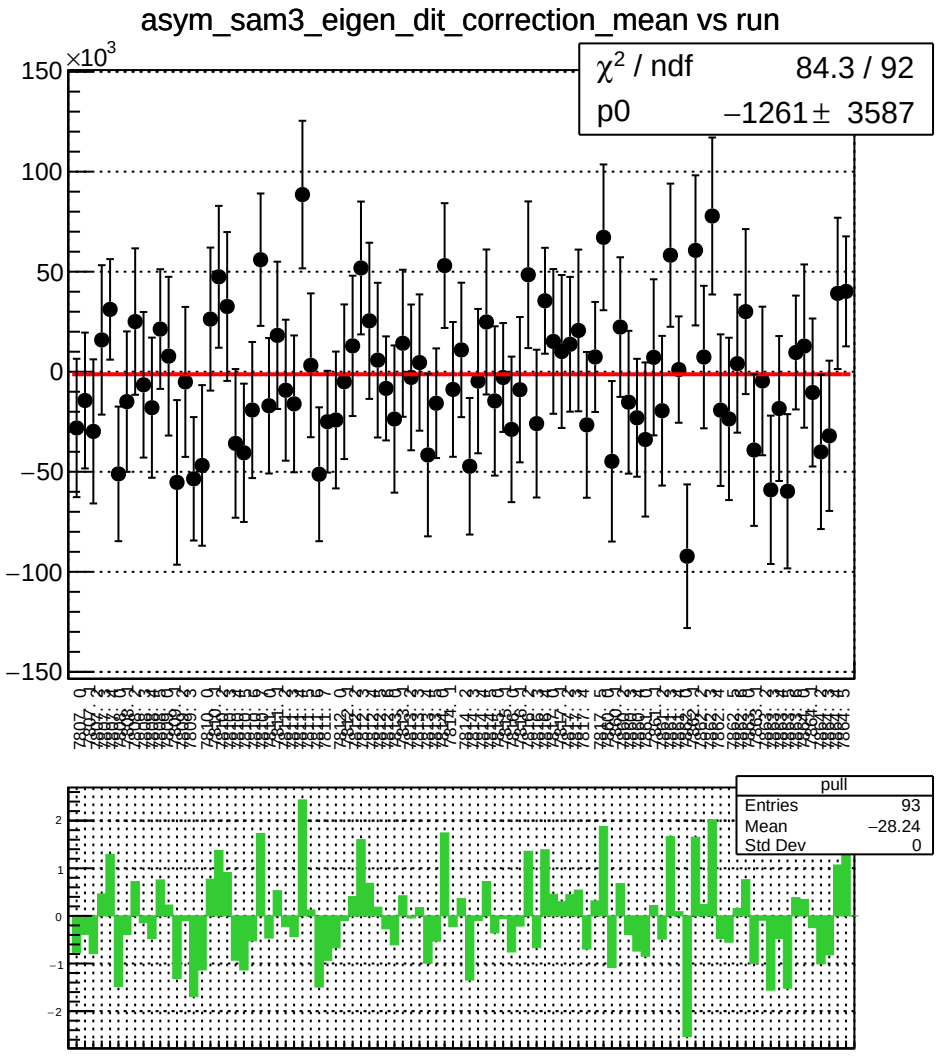

pull1D
Entries 93
Mean −0.01296
Std Dev 0.952
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

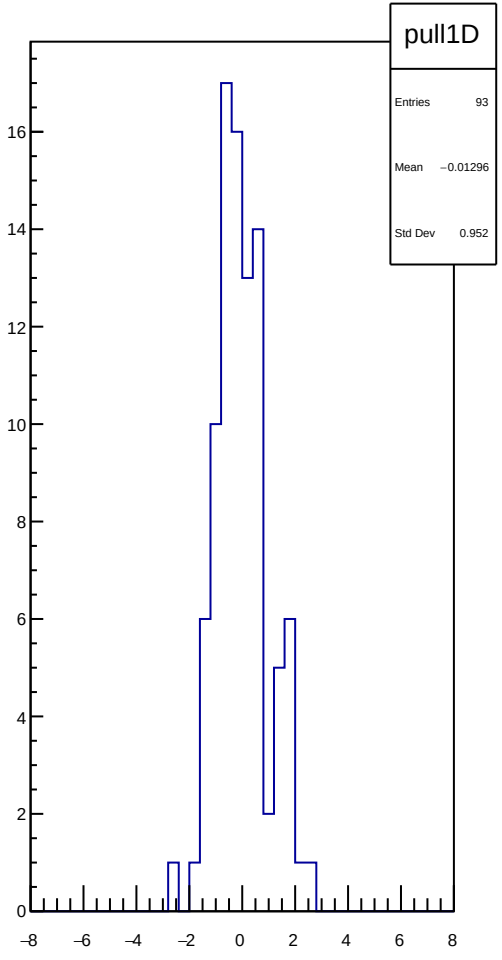

asym_sam3_dit_correction_rms vs run
χ² / ndf 5624 / 92
p0 3446 ± 2.536
4000
3800
3600
3400
3200
3000

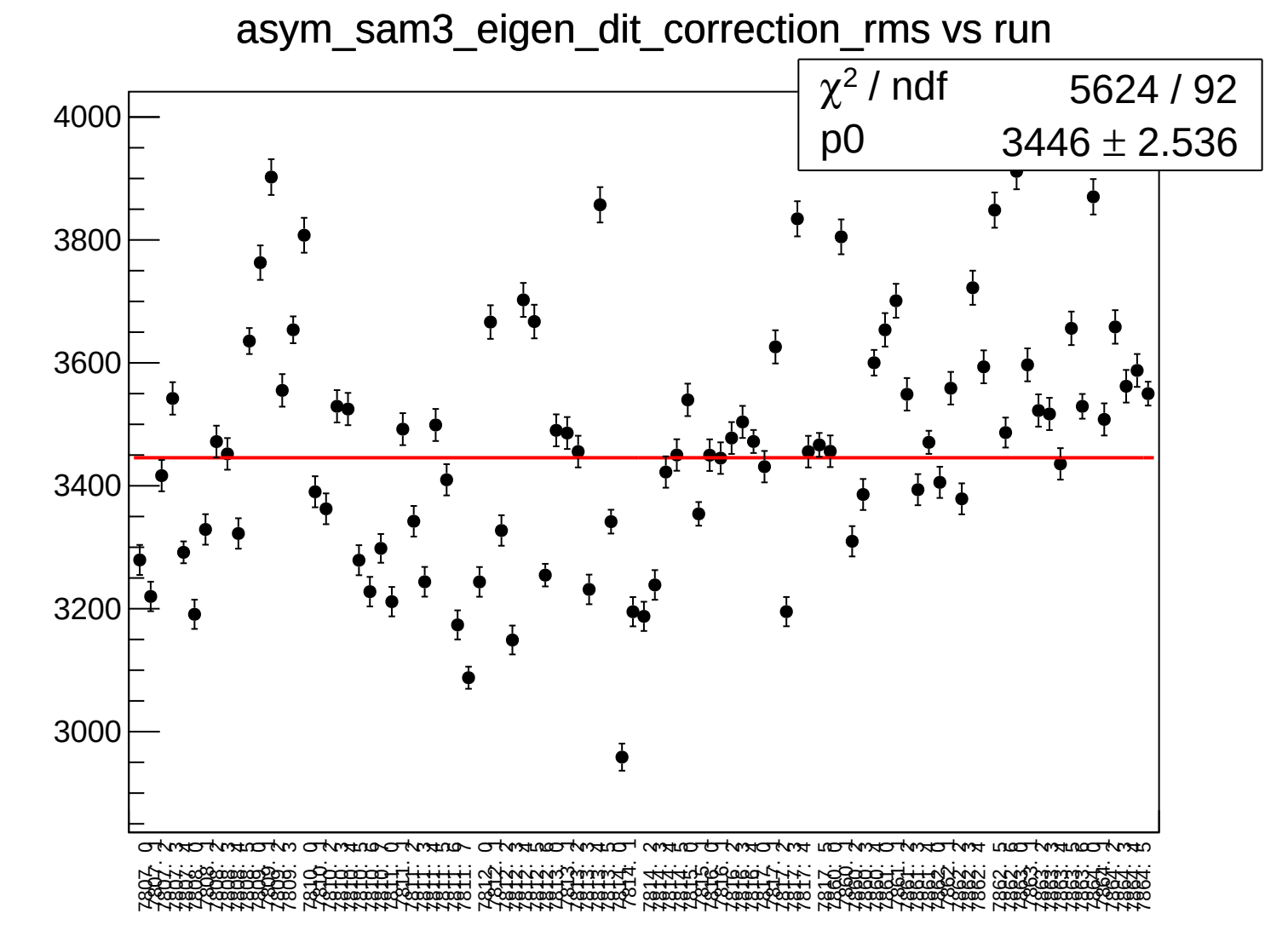

eigen_dit_asym_sam3_mean vs run
χ² / ndf 94.93 / 92
p0 −142.6 ± 465.4
pull
Entries 93
Mean −21.86
Std Dev 0

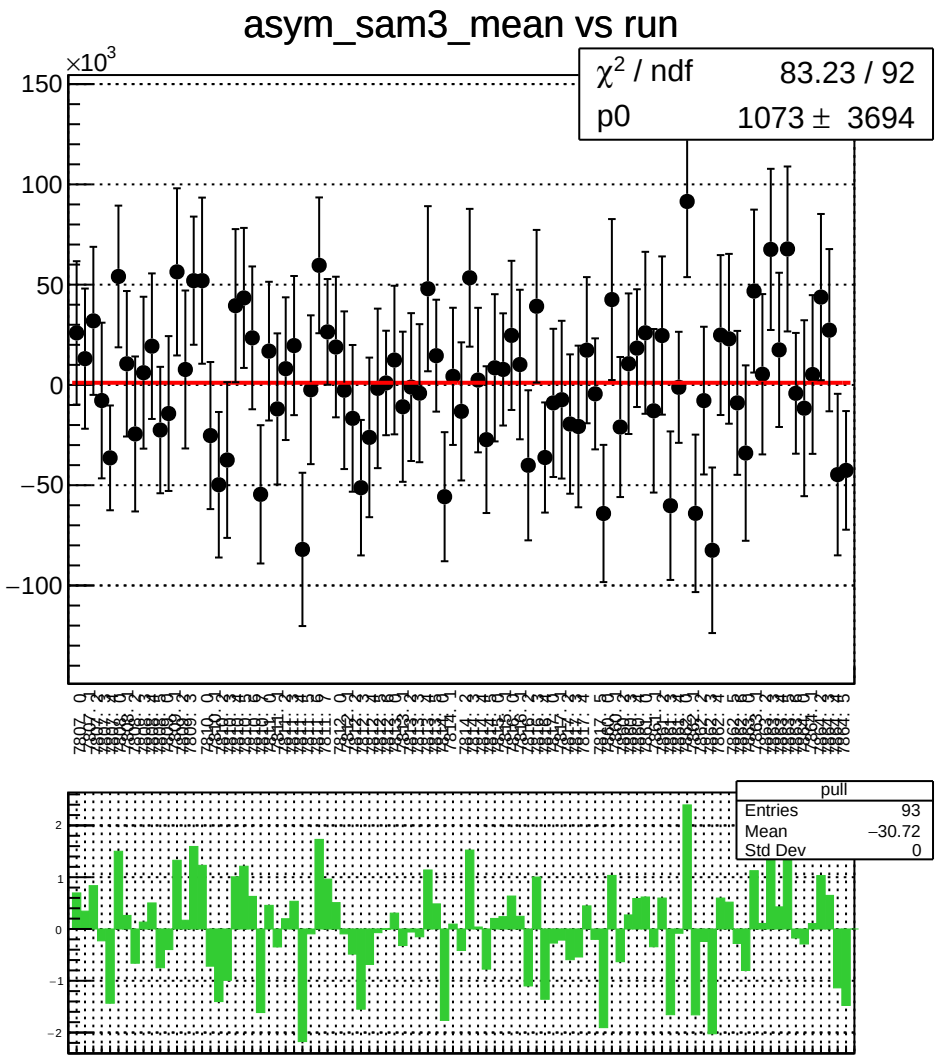

pull1D
Entries 93
Mean 0.01526
Std Dev 1.01

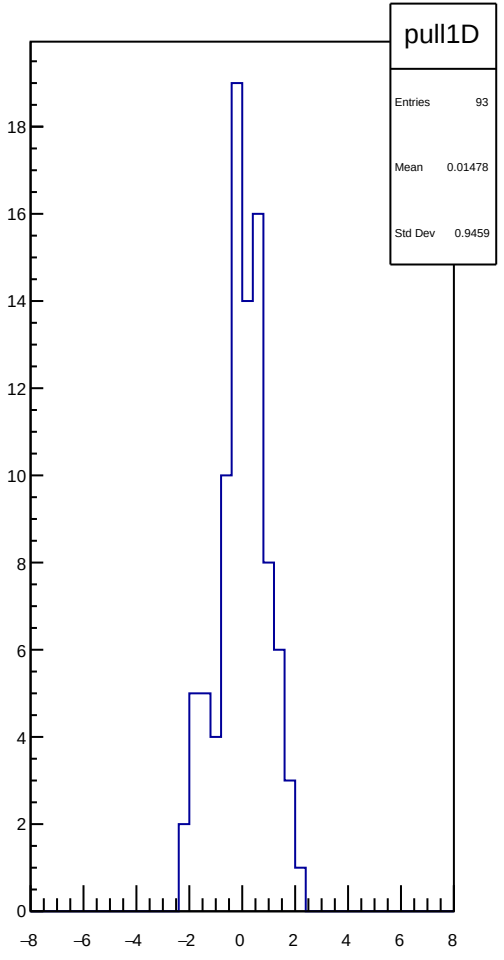

eigen_dit_asym_sam3_rms vs run
χ² / ndf 3.495e+04 / 92
p0 443.5 ± 0.3291
700
650
600
550
500
450
400
350

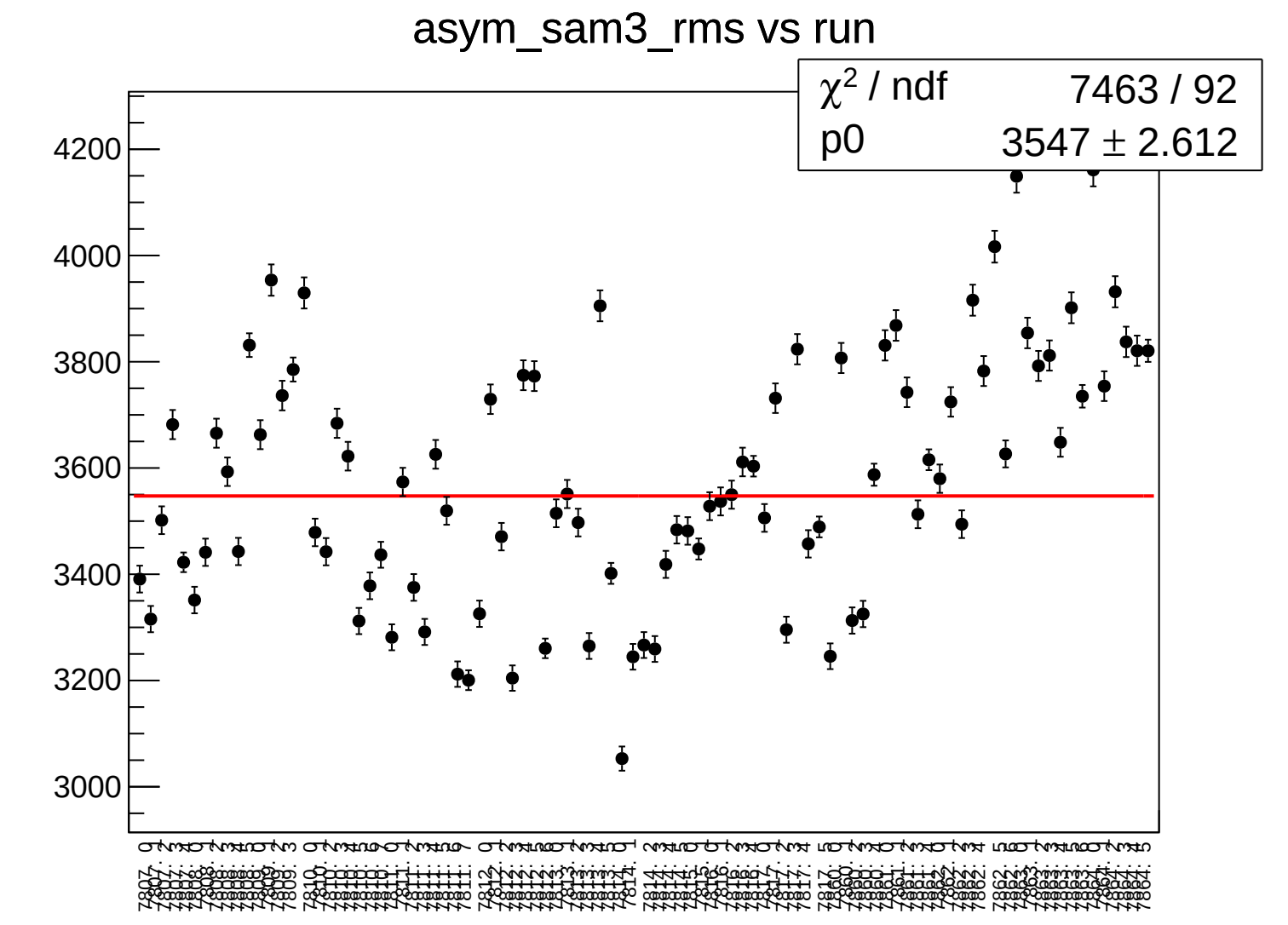

asym_sam3_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 84.3 / 92
p0 −1261 ± 3587
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean −28.24
Std Dev 0
2
1
0
−1
−2

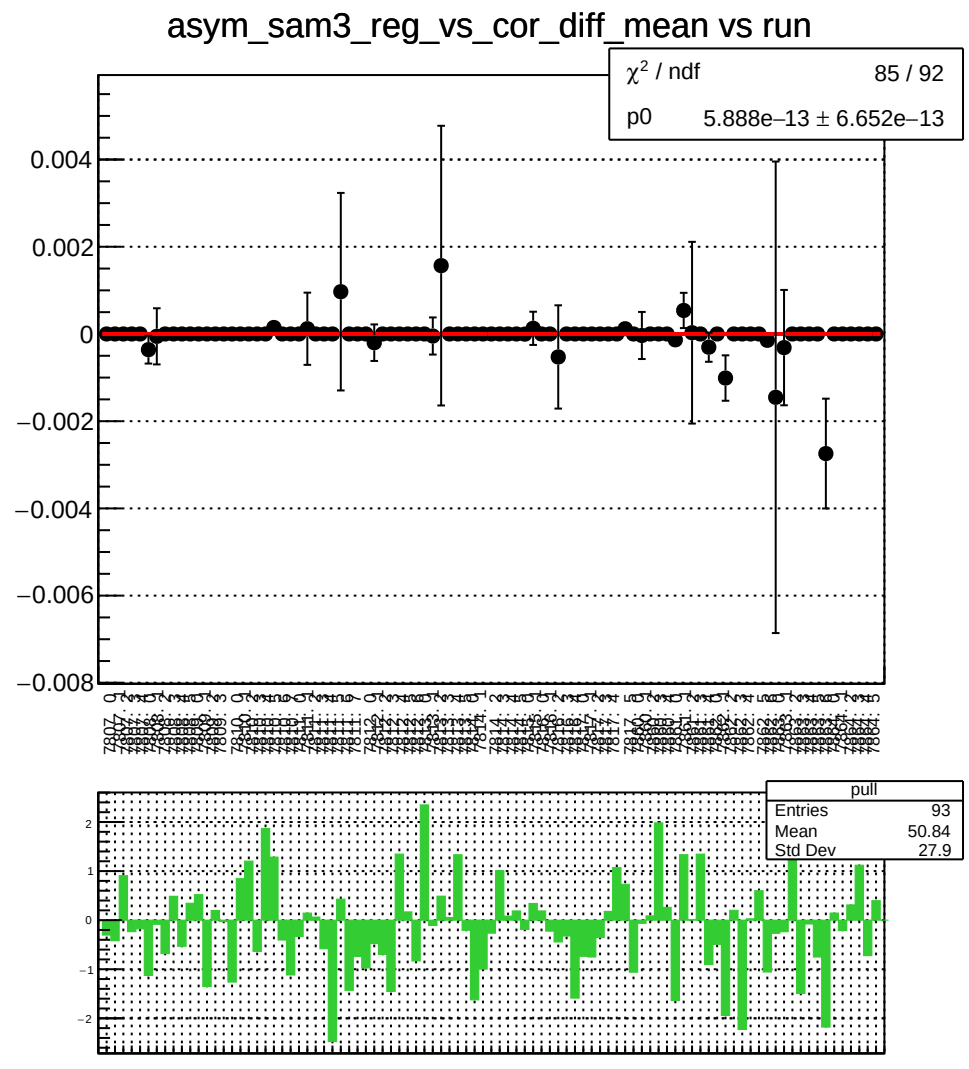

pull1D
Entries 93
Mean −0.01296
Std Dev 0.952
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

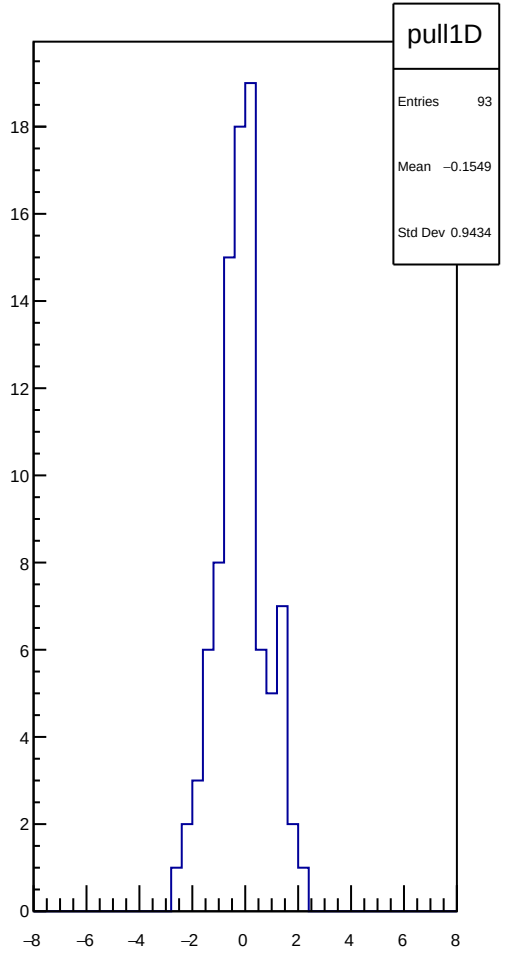

asym_sam3_eigen_dit_correction_rms vs run
χ² / ndf 5624 / 92
p0 3446 ± 2.536
4000
3800
3600
3400
3200
3000

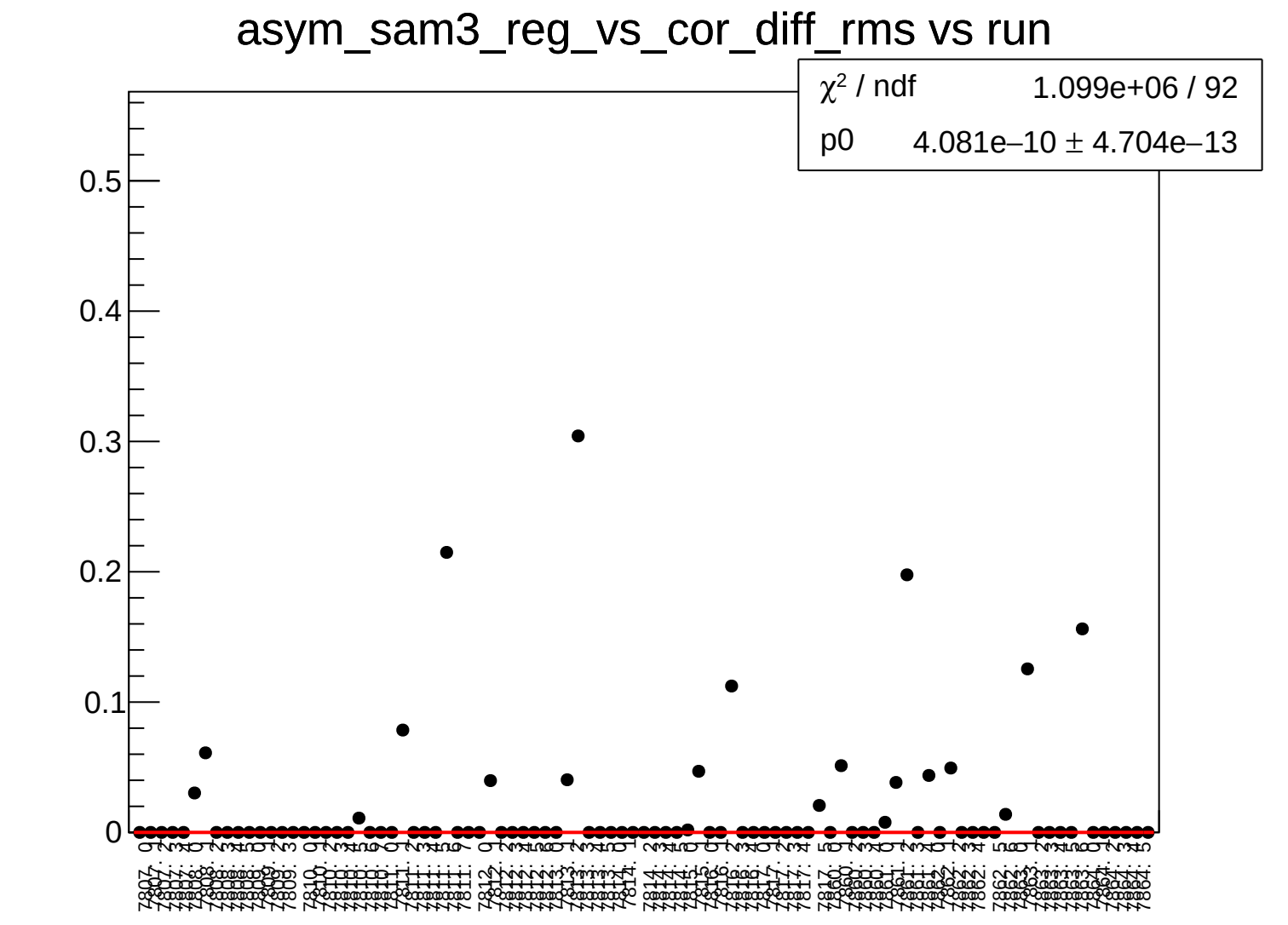

asym_sam3_mean vs run
×10^3
150
100
50
0
−50
−100
χ² / ndf 83.23 / 92
p0 1073 ± 3694
pull
Entries 93
Mean −30.72
Std Dev 0
2
1
0
−1
−2

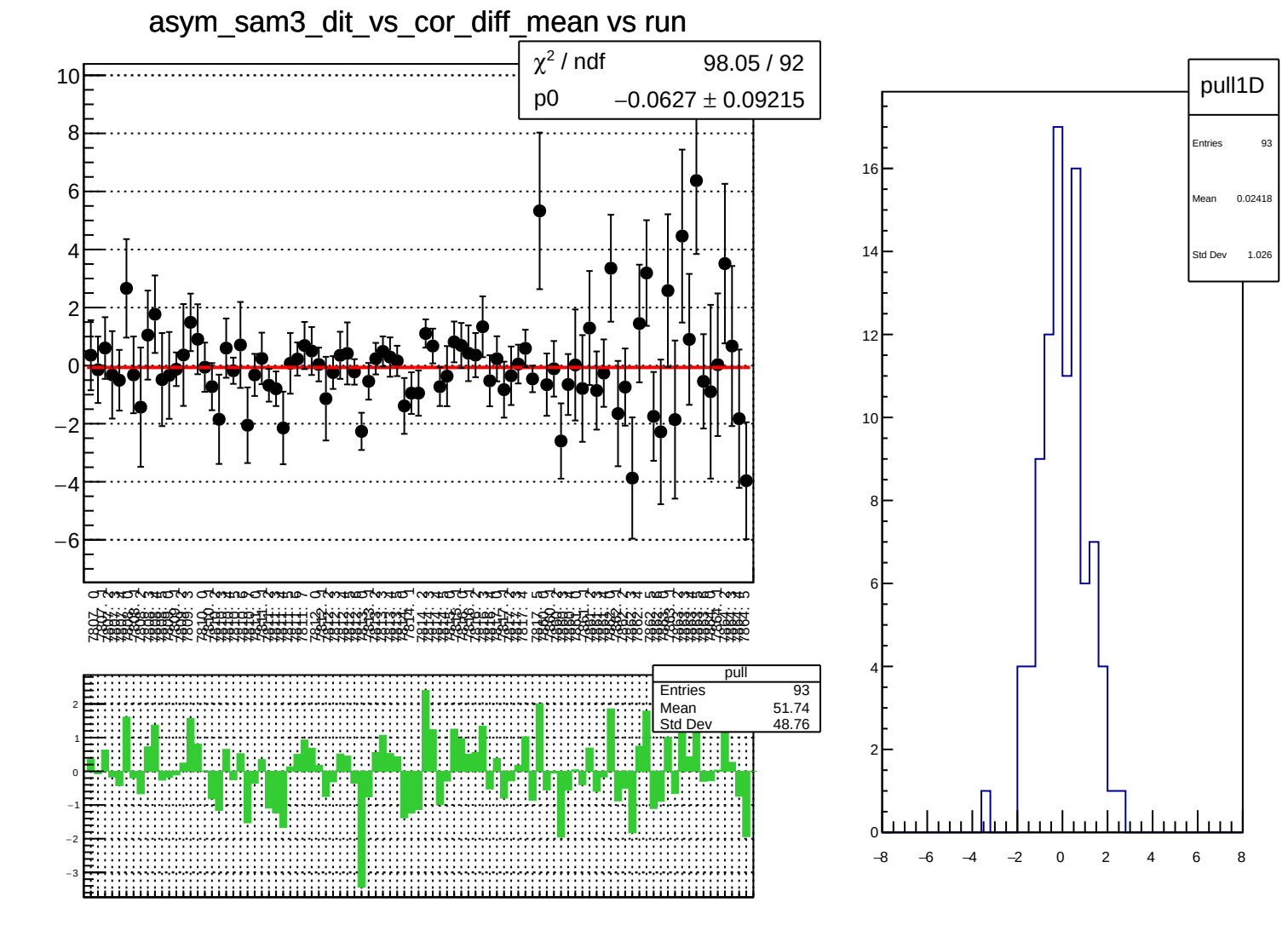

pull1D
Entries 93
Mean 0.01478
Std Dev 0.9459
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

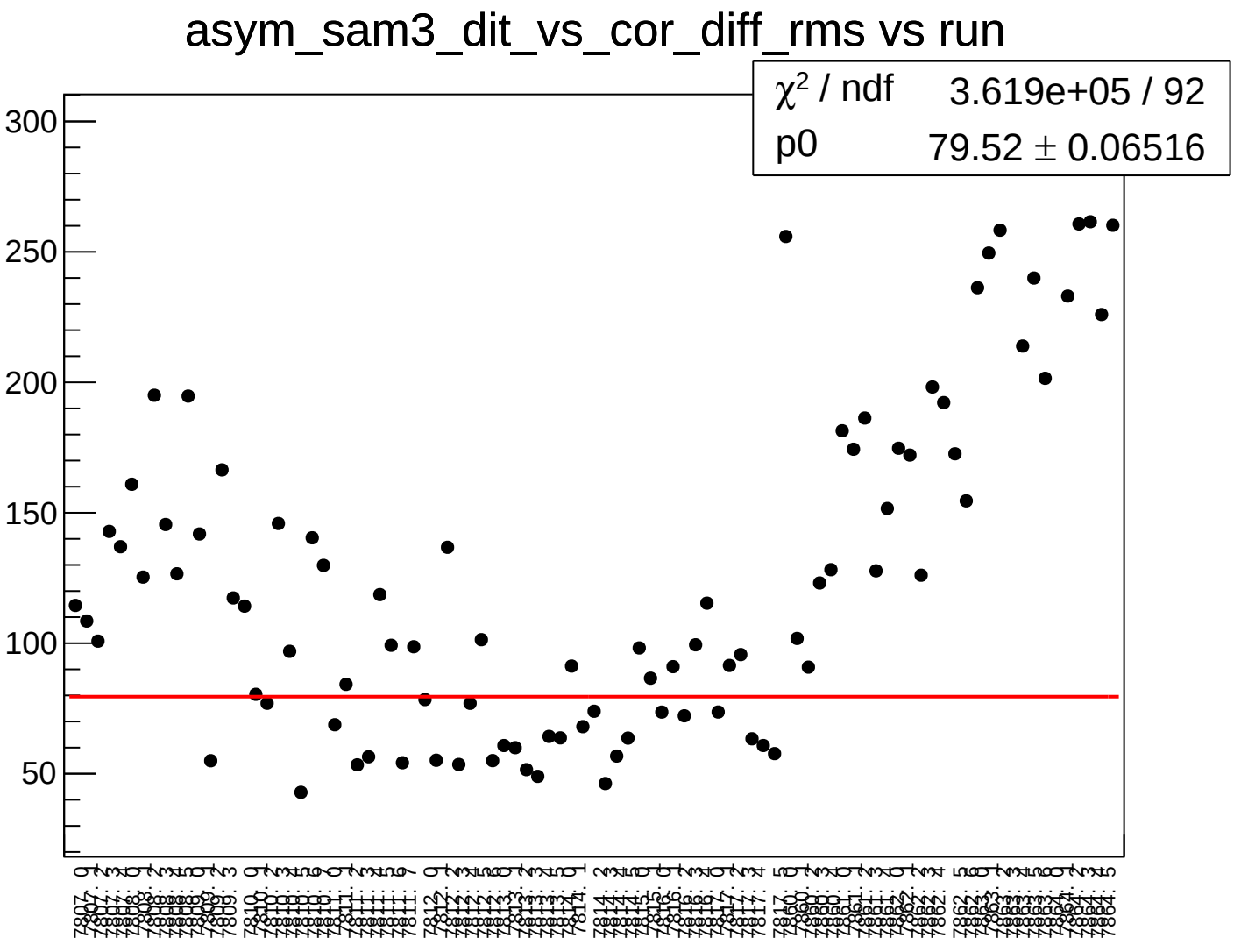

asym_sam3_rms vs run
χ² / ndf 7463 / 92
p0 3547 ± 2.612
4200
4000
3800
3600
3400
3200
3000

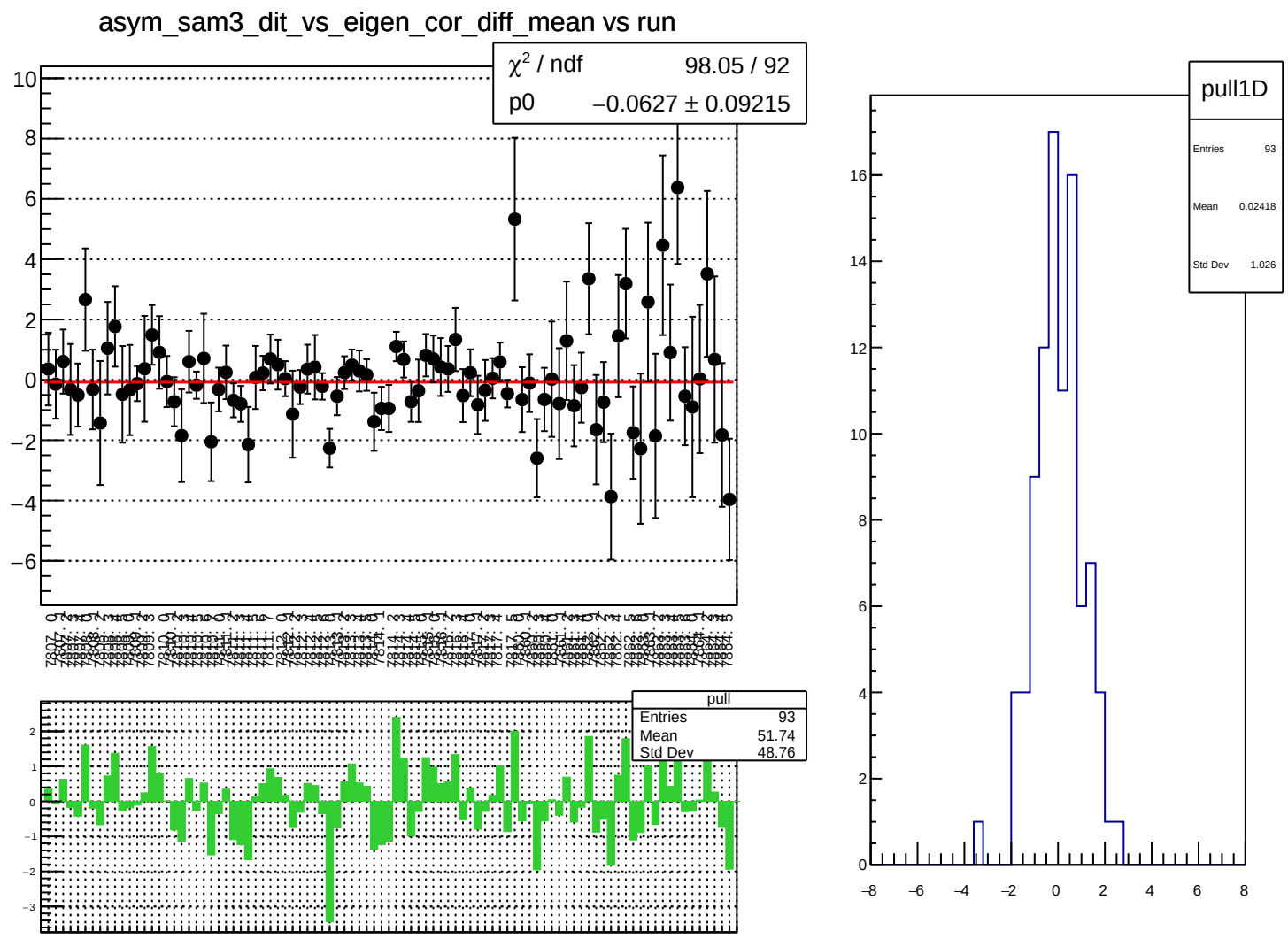

asym_sam3_reg_vs_cor_diff_mean vs run
χ² / ndf 85 / 92
p0 5.888e−13 ± 6.652e−13
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
pull
Entries 93
Mean 50.84
Std Dev 27.9
2
1
0
−1
−2

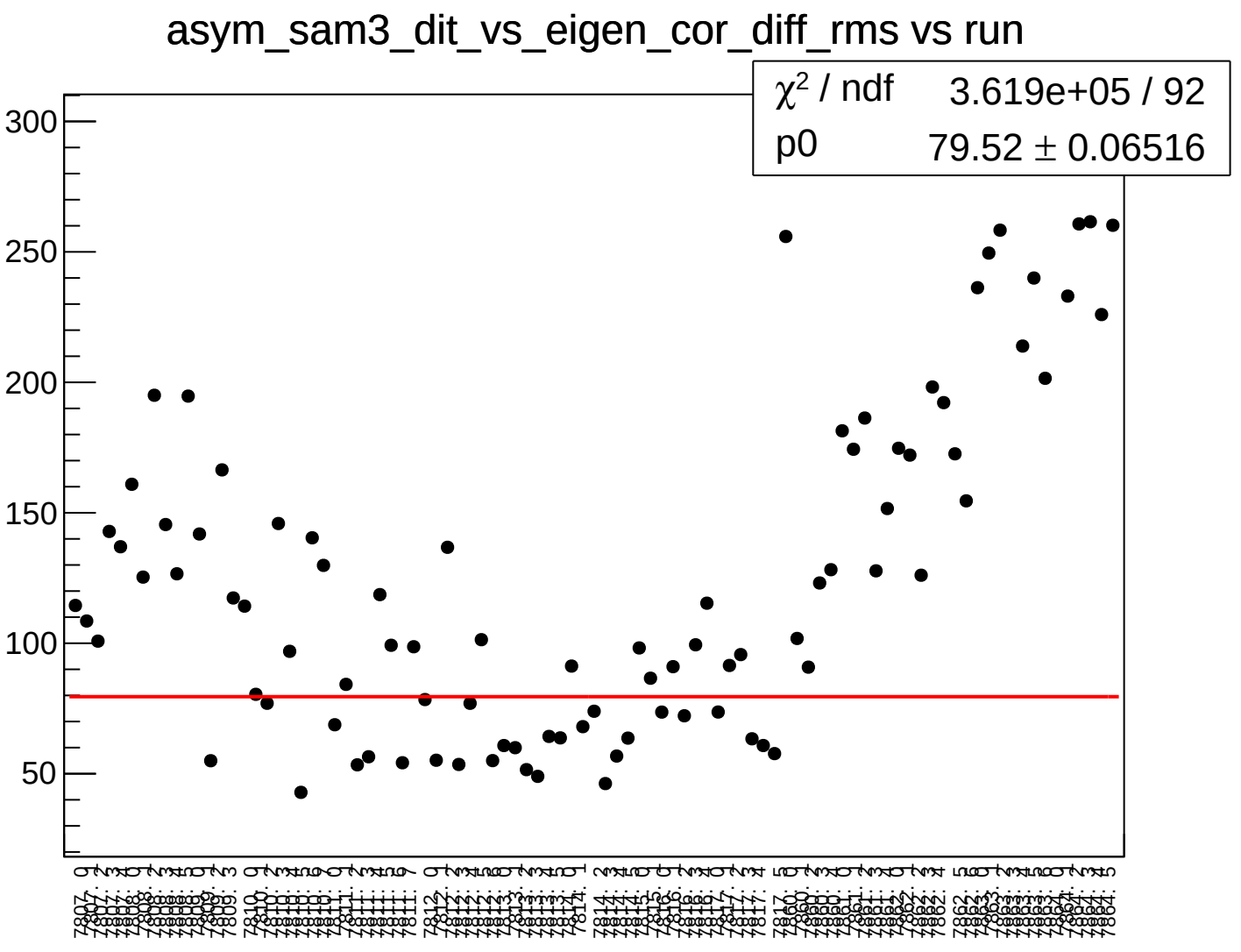

pull1D
Entries 93
Mean −0.1549
Std Dev 0.9434
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

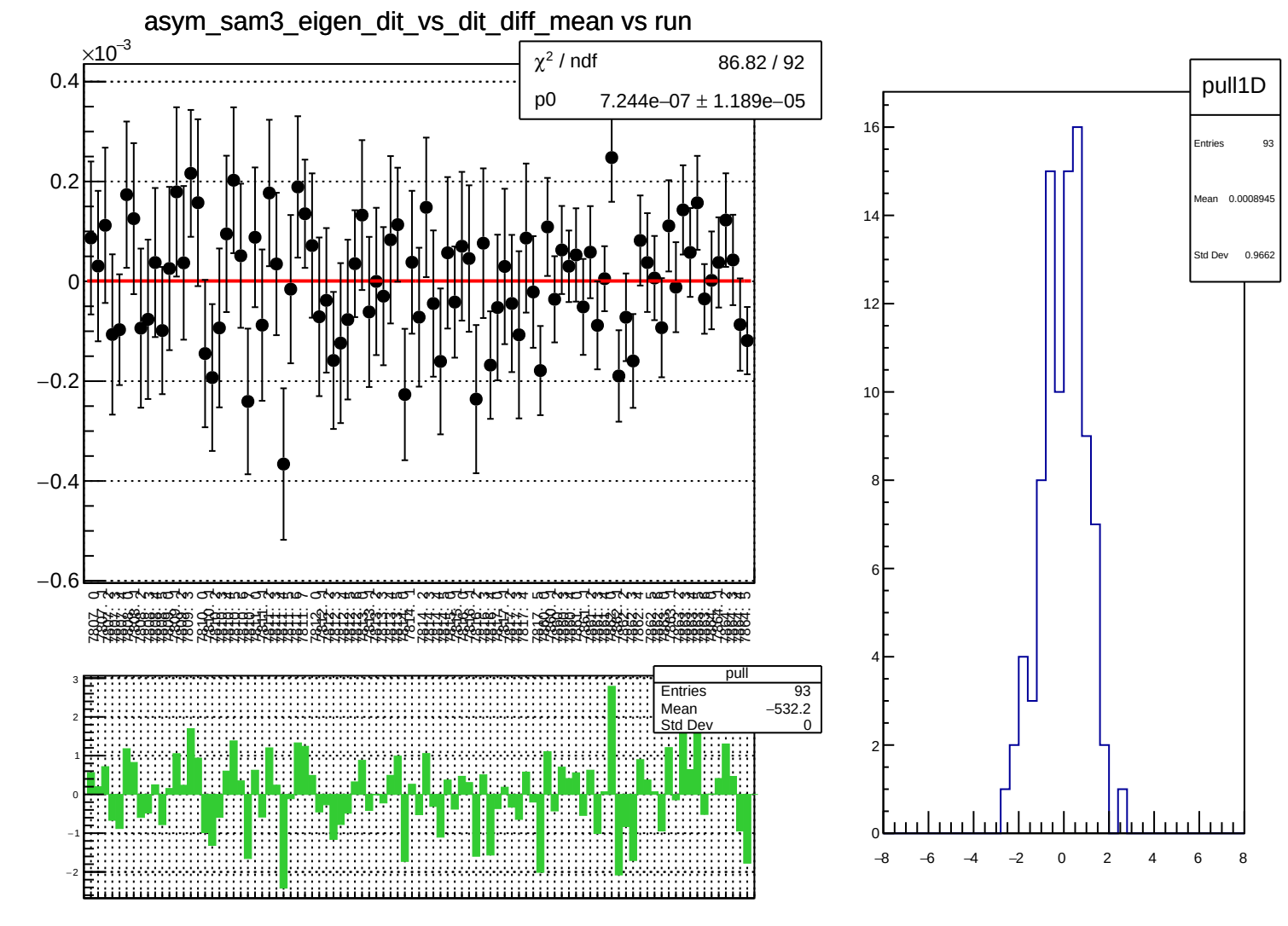

asym_sam3_reg_vs_cor_diff_rms vs run
χ² / ndf 1.099e+06 / 92
p0 4.081e−10 ± 4.704e−13
0.5
0.4
0.3
0.2
0.1
0

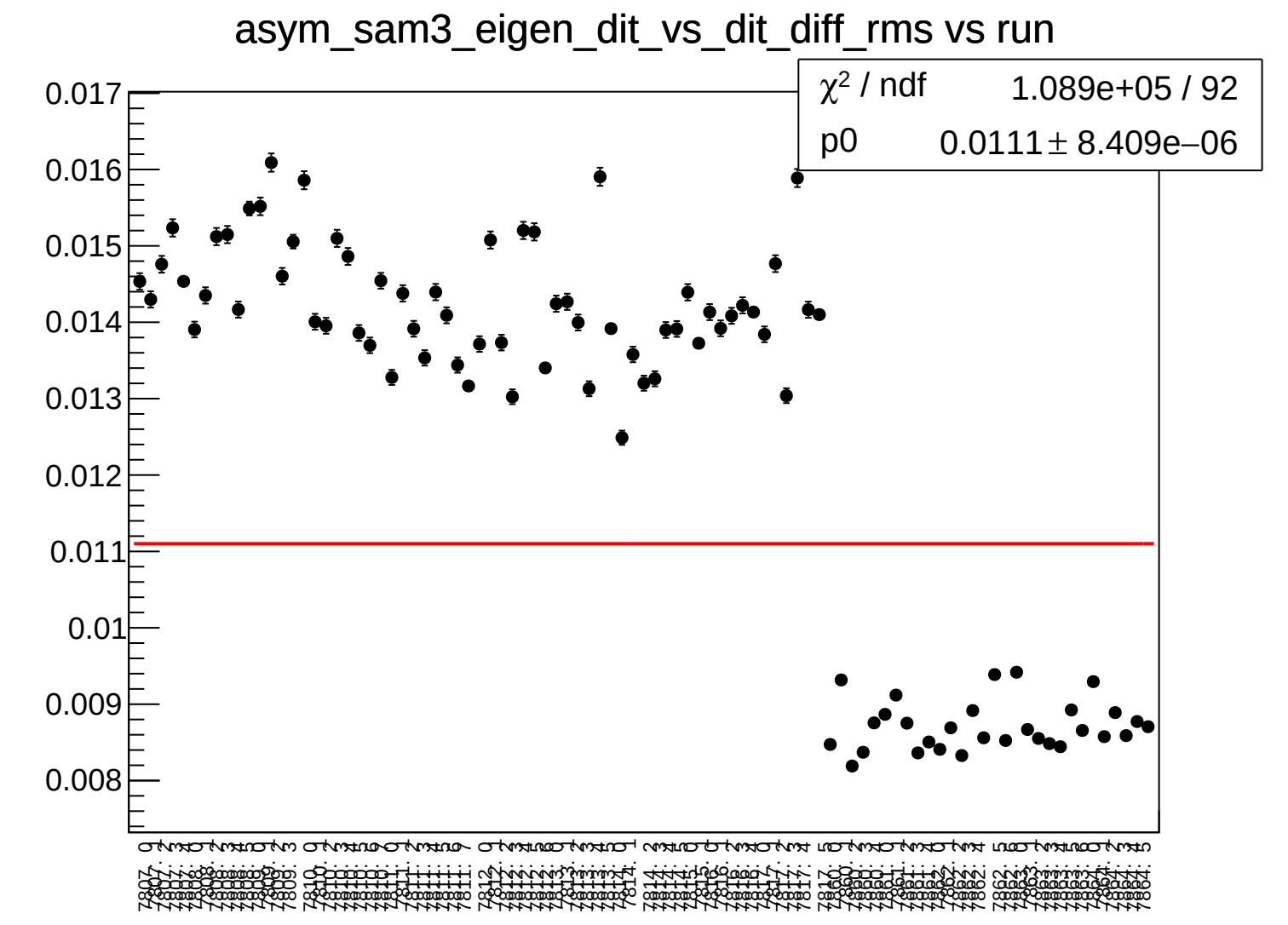

asym_sam3_dit_vs_cor_diff_mean vs run
χ² / ndf 98.05 / 92
p0 −0.0627 ± 0.09215
pull
Entries 93
Mean 51.74
Std Dev 48.76
pull1D
Entries 93
Mean 0.02418
Std Dev 1.026

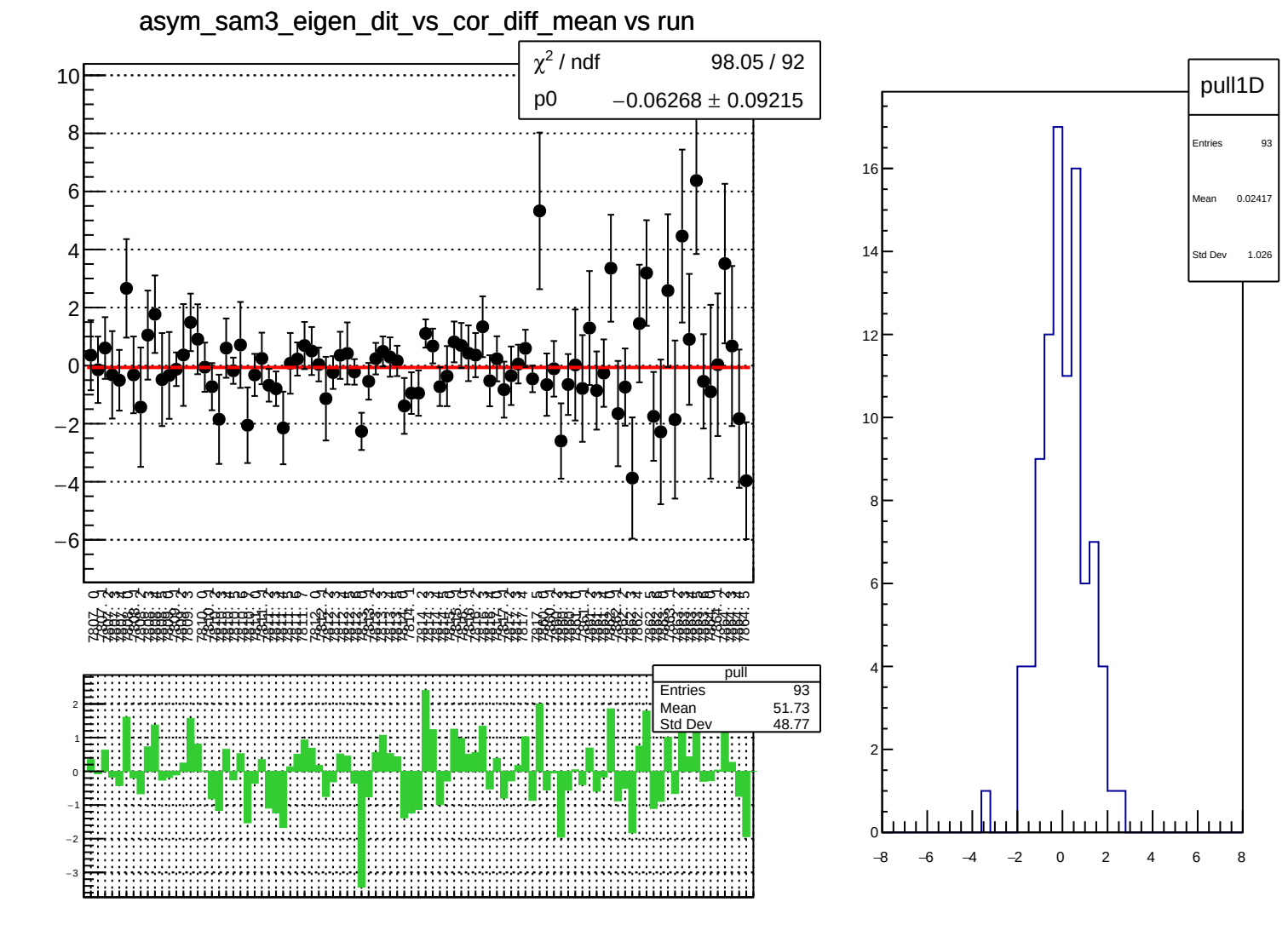

asym_sam3_dit_vs_cor_diff_rms vs run
χ² / ndf 3.619e+05 / 92
p0 79.52 ± 0.06516
300
250
200
150
100
50

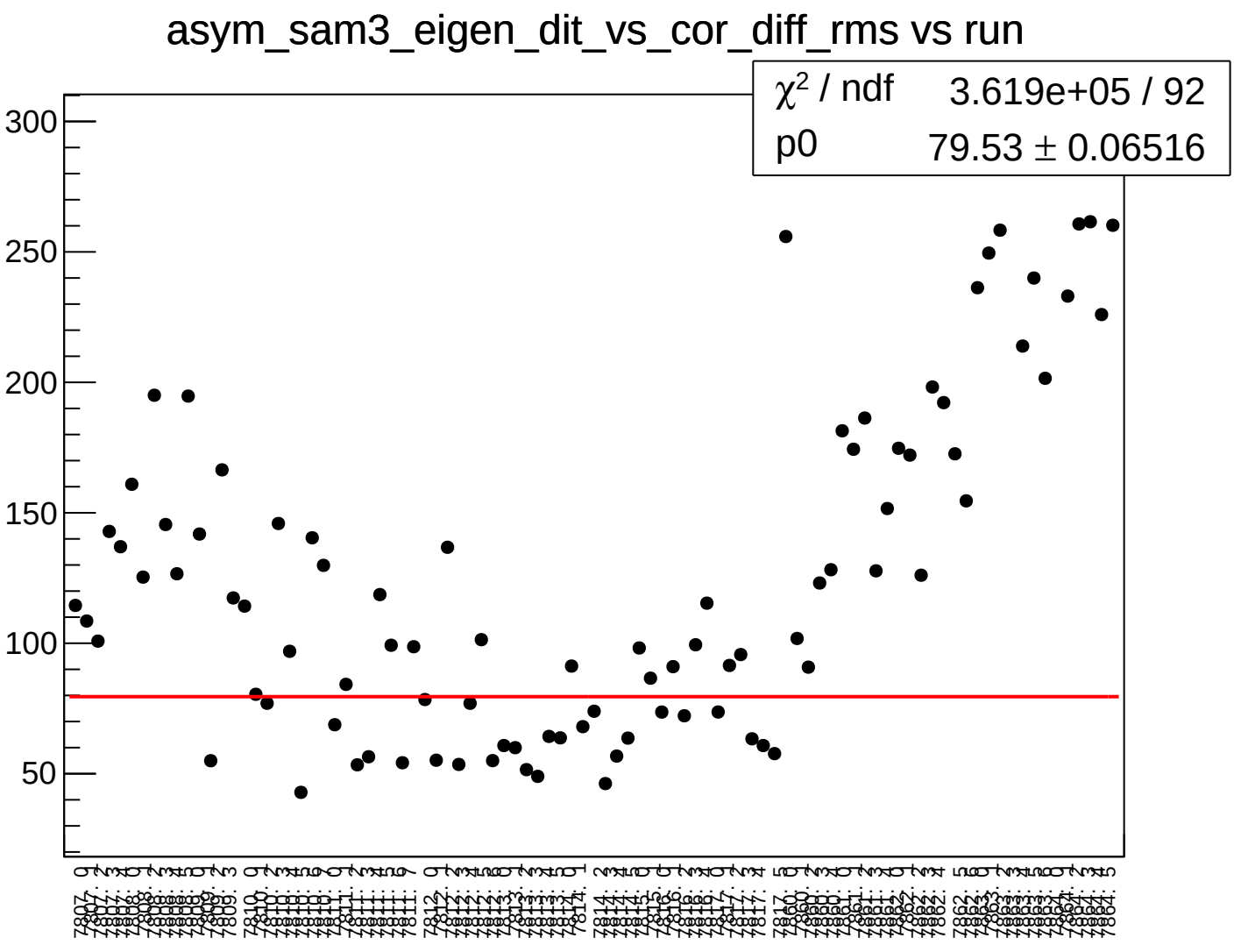

asym_sam3_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.05 / 92
p0 −0.0627 ± 0.09215
pull
Entries 93
Mean 51.74
Std Dev 48.76
pull1D
Entries 93
Mean 0.02418
Std Dev 1.026

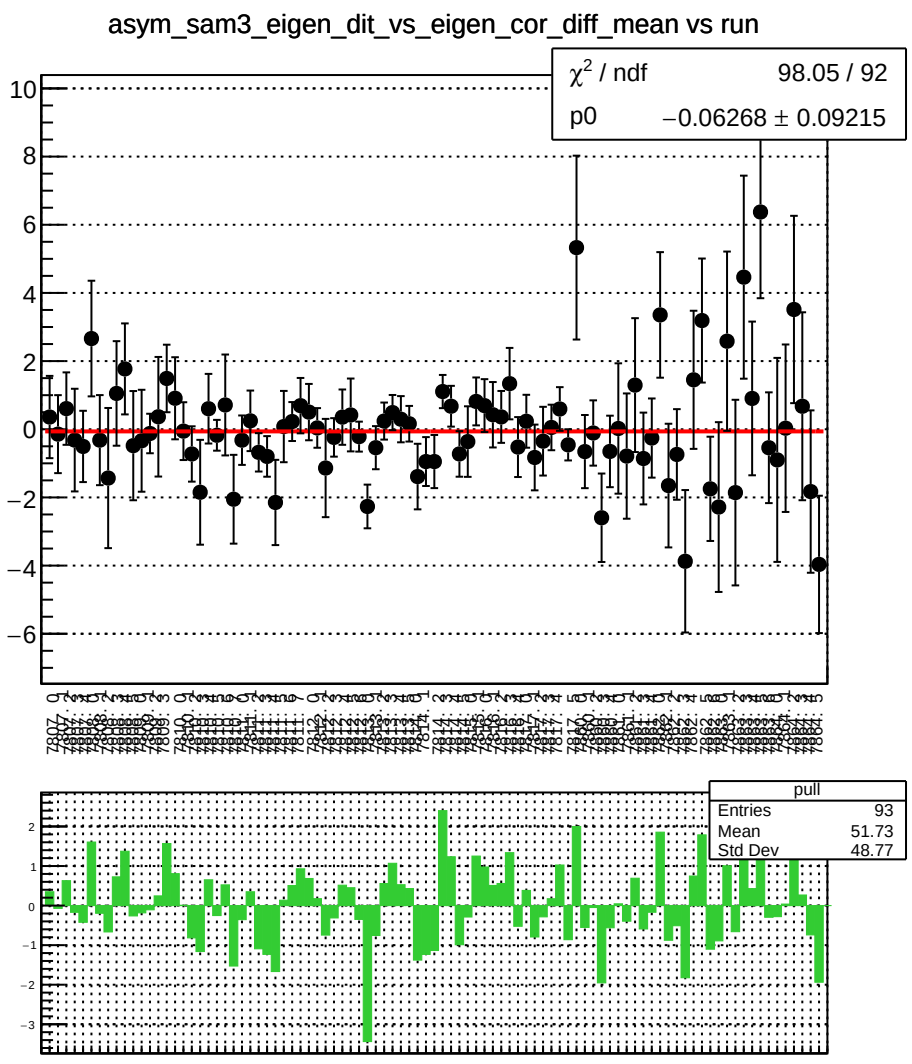

asym_sam3_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.619e+05 / 92
p0 79.52 ± 0.06516
300
250
200
150
100
50

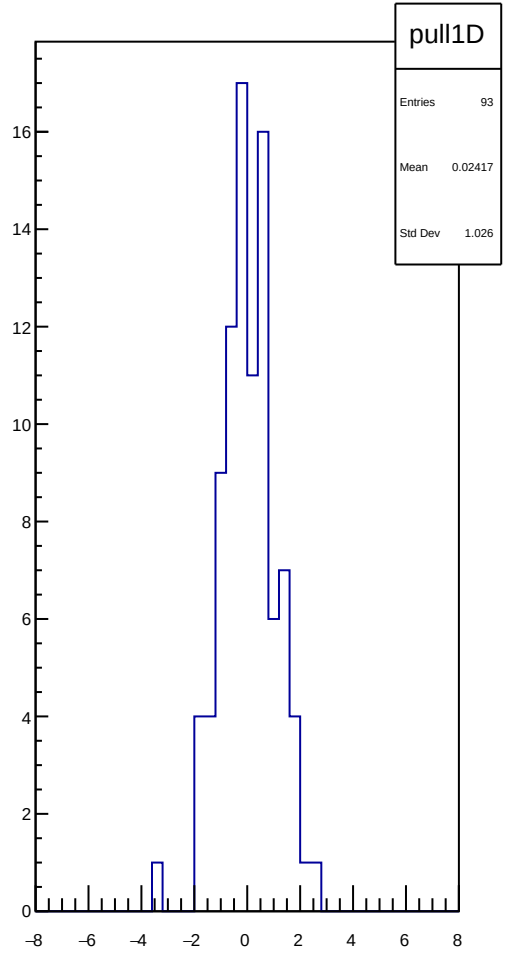

asym_sam3_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 86.82 / 92
p0 7.244e−07 ± 1.189e−05
pull
Entries 93
Mean −532.2
Std Dev 0
pull1D
Entries 93
Mean 0.0008945
Std Dev 0.9662

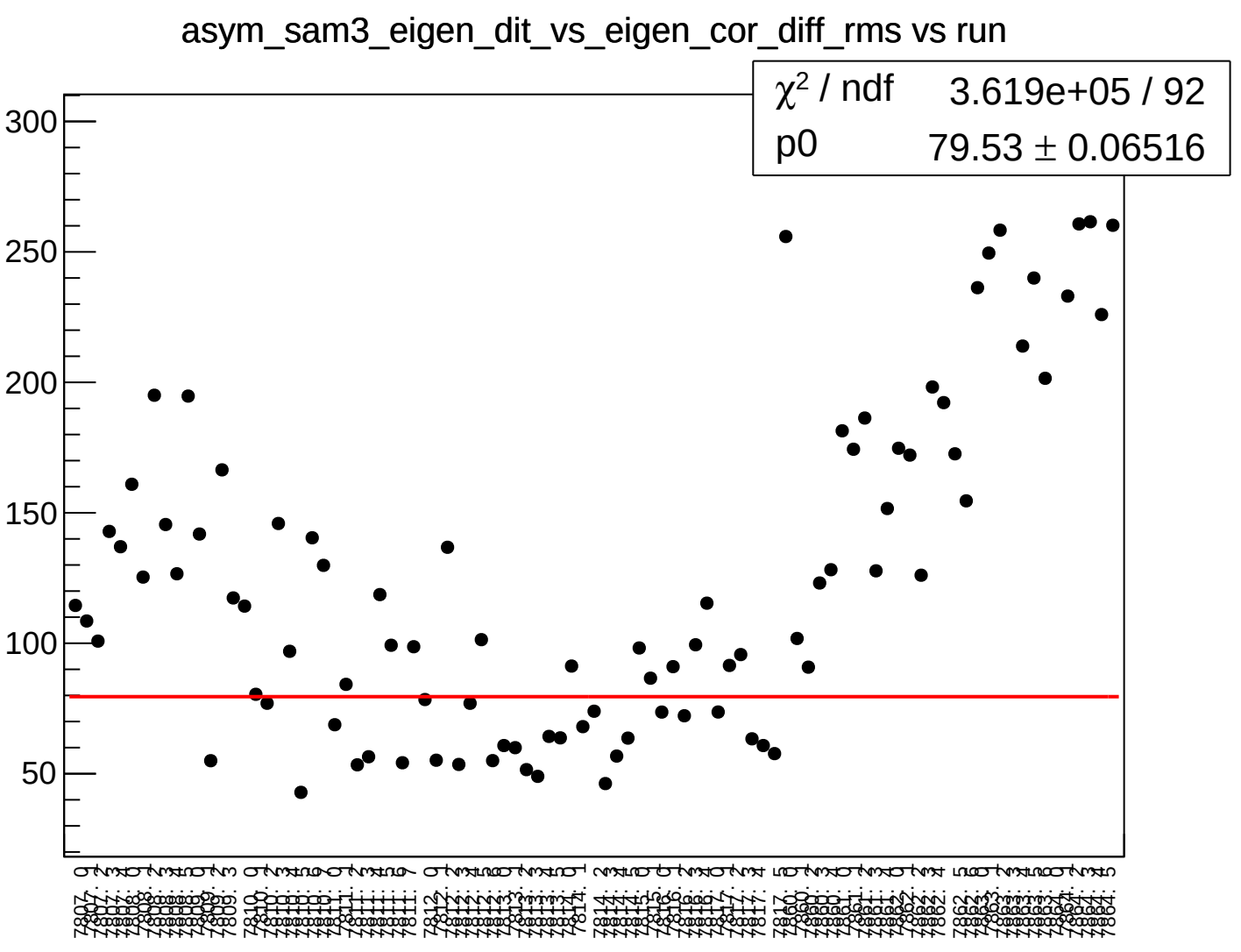

asym_sam3_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.089e+05 / 92
p0 0.0111 ± 8.409e−06
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008

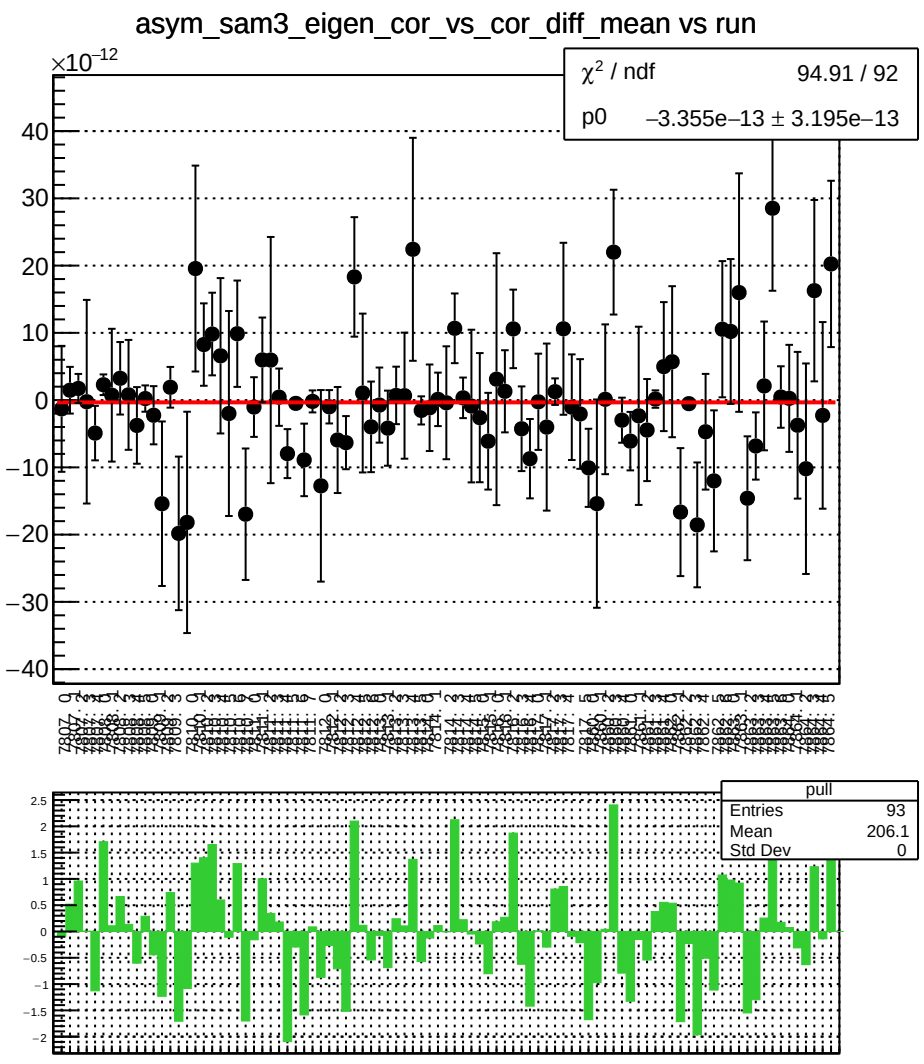

asym_sam3_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 98.05 / 92
p0 −0.06268 ± 0.09215
pull
Entries 93
Mean 51.73
Std Dev 48.77
pull1D
Entries 93
Mean 0.02417
Std Dev 1.026

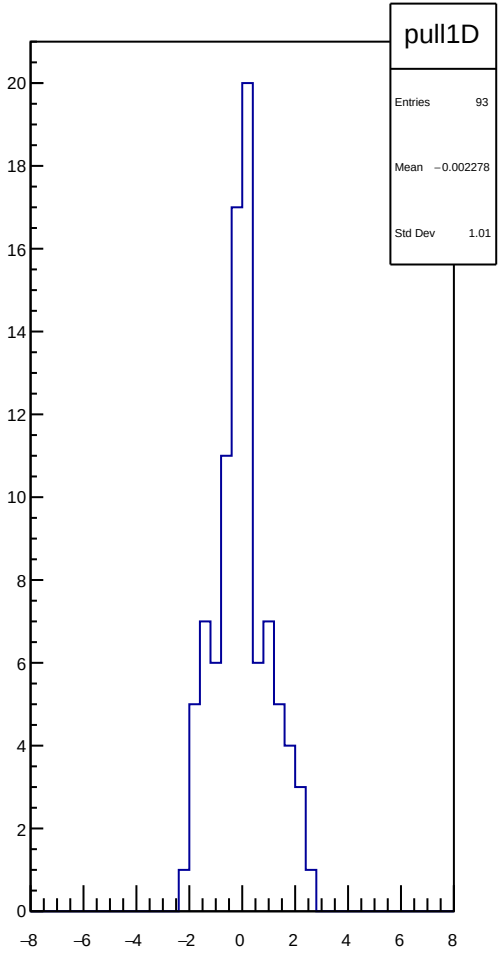

asym_sam3_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.619e+05 / 92
p0 79.53 ± 0.06516
300
250
200
150
100
50

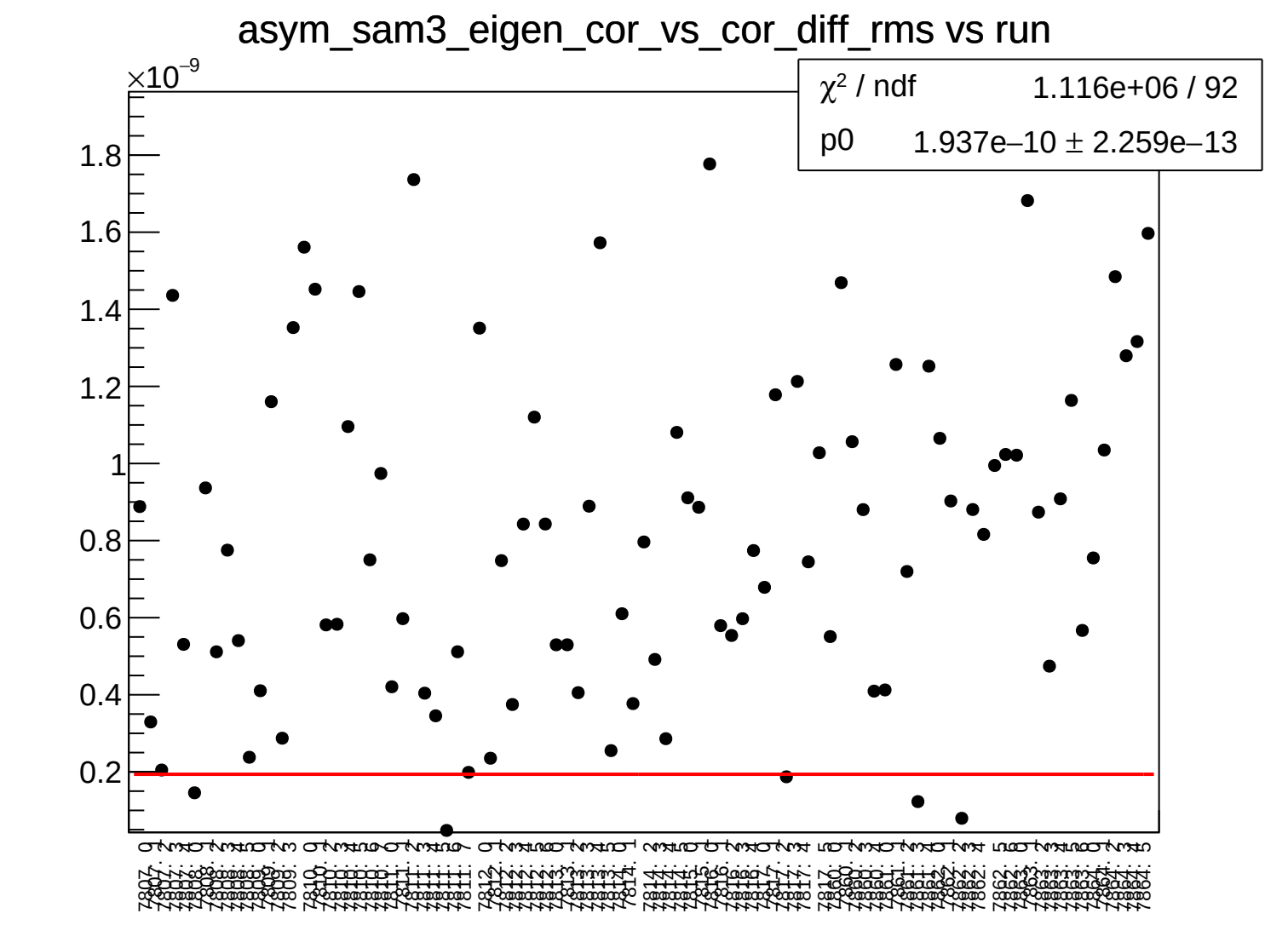

asym_sam3_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.05 / 92
p0 −0.06268 ± 0.09215
pull
Entries 93
Mean 51.73
Std Dev 48.77

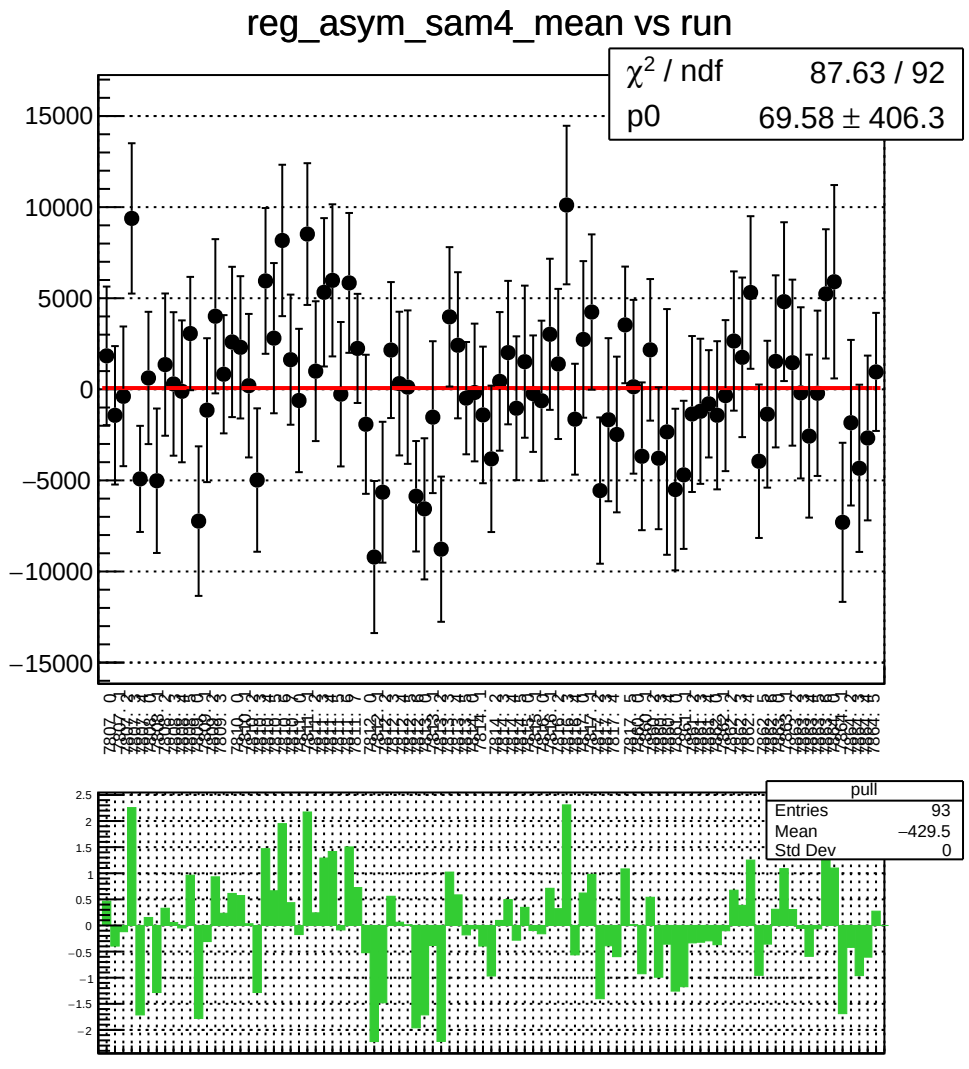

pull1D
Entries 93
Mean 0.02417
Std Dev 1.026

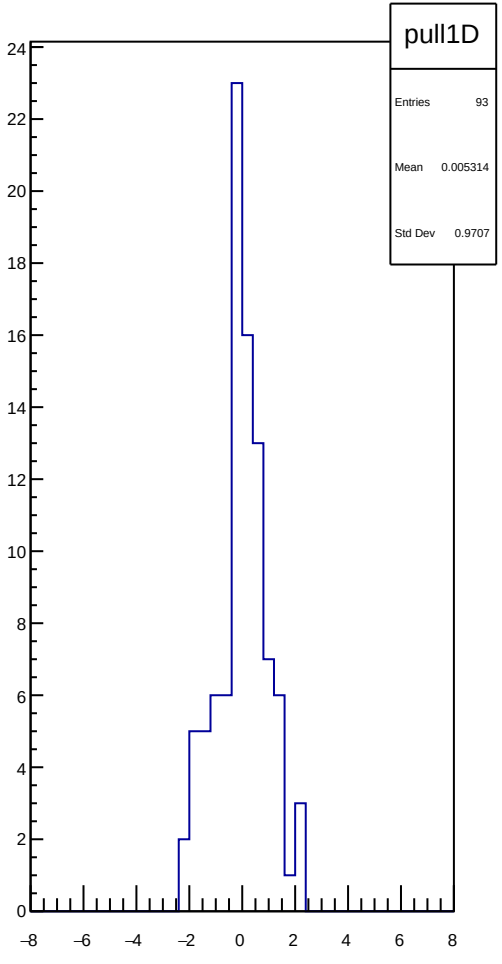

asym_sam3_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.619e+05 / 92
p0 79.53 ± 0.06516
300
250
200
150
100
50

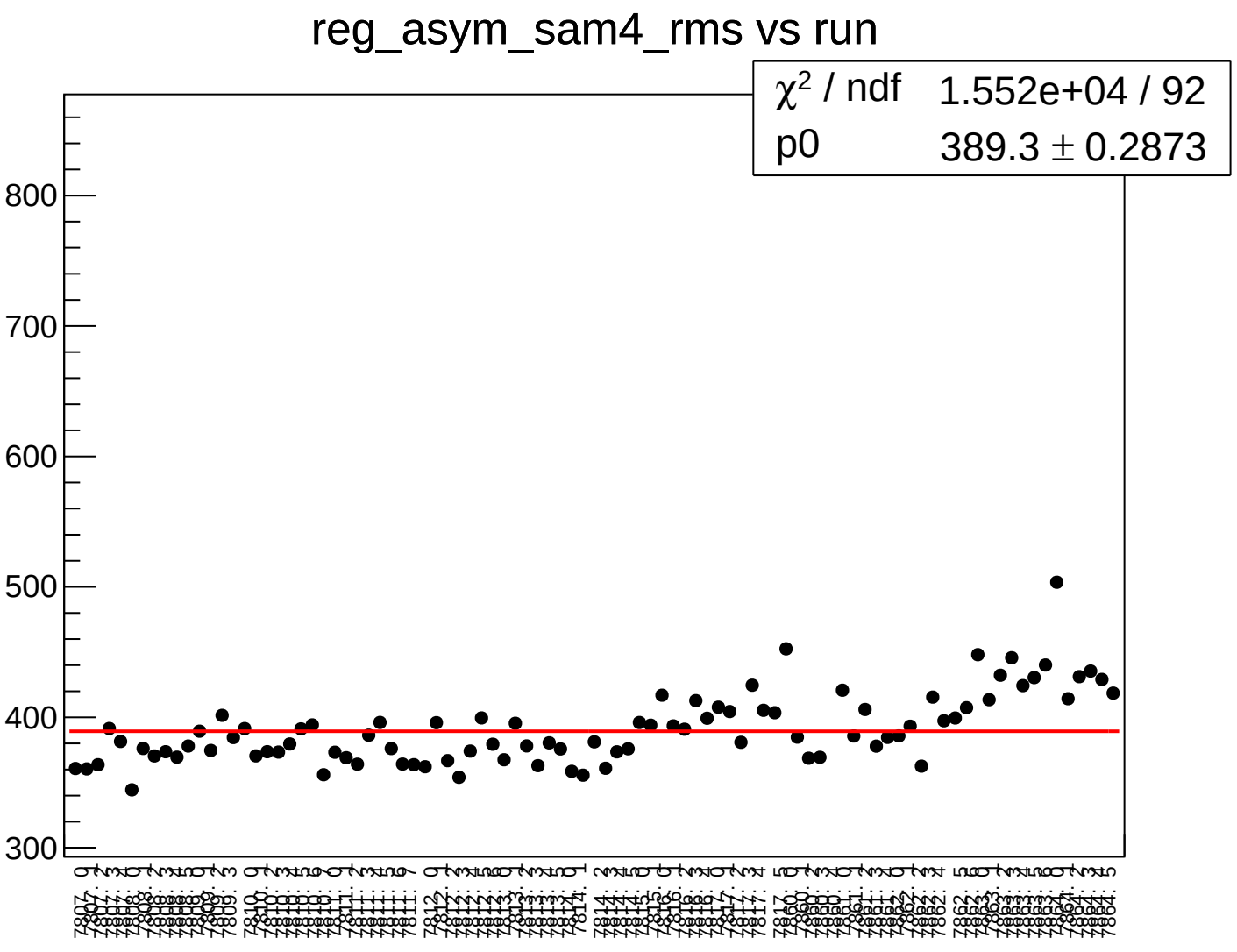

asym_sam3_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.91 / 92
p0 −3.355e−13 ± 3.195e−13
pull
Entries 93
Mean 206.1
Std Dev 0

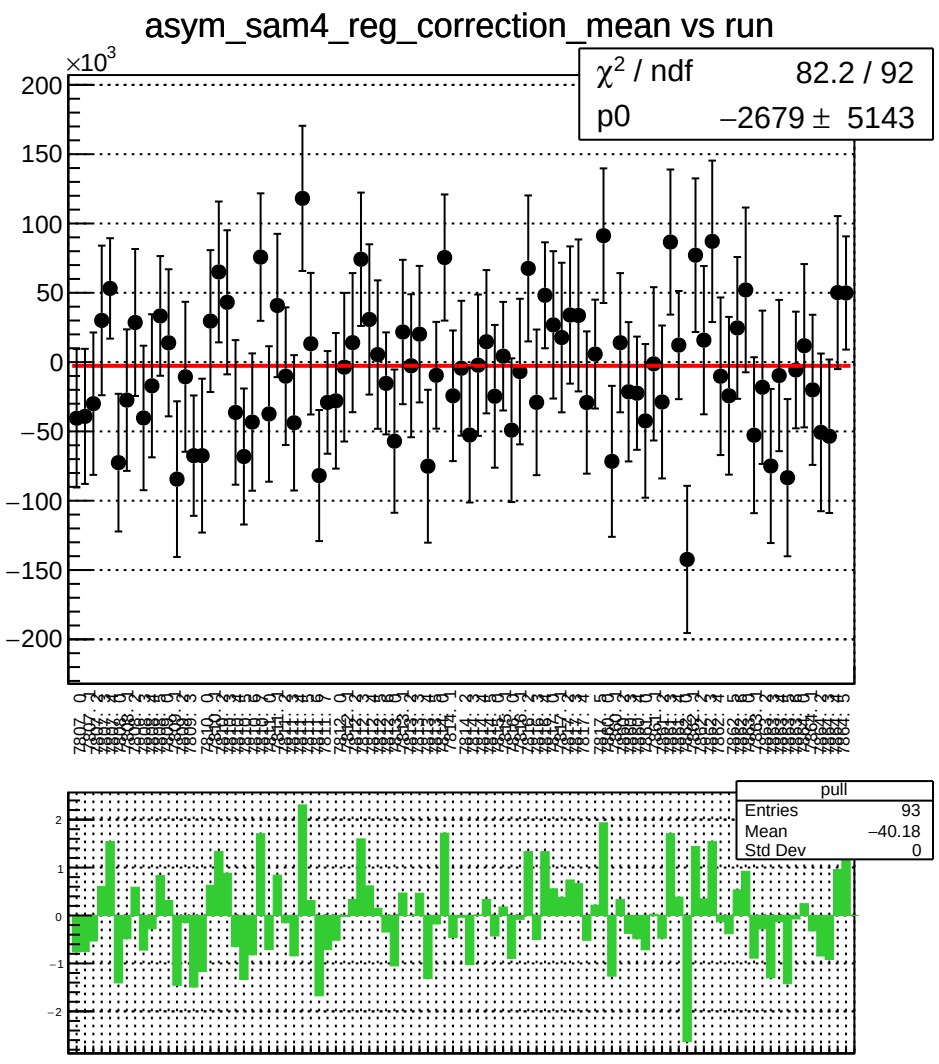

pull1D
Entries 93
Mean −0.002278
Std Dev 1.01

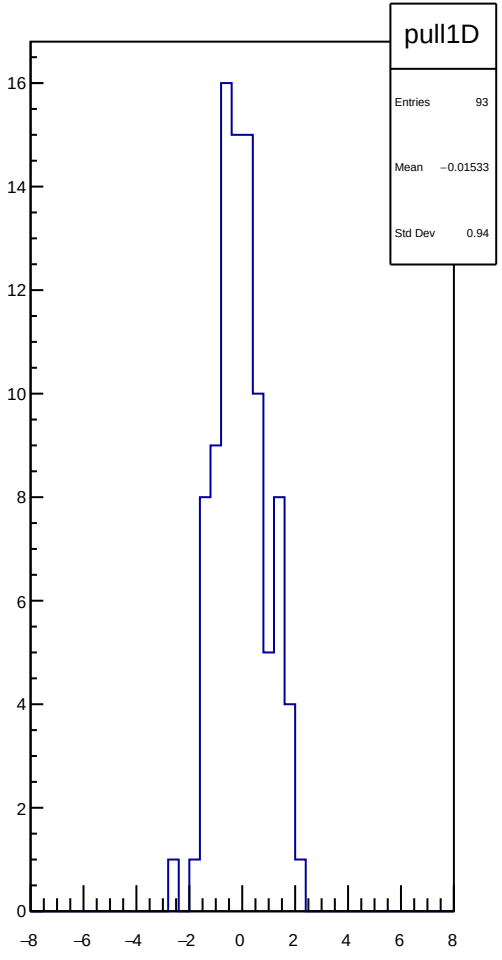

asym_sam3_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.116e+06 / 92
p0 1.937e−10 ± 2.259e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

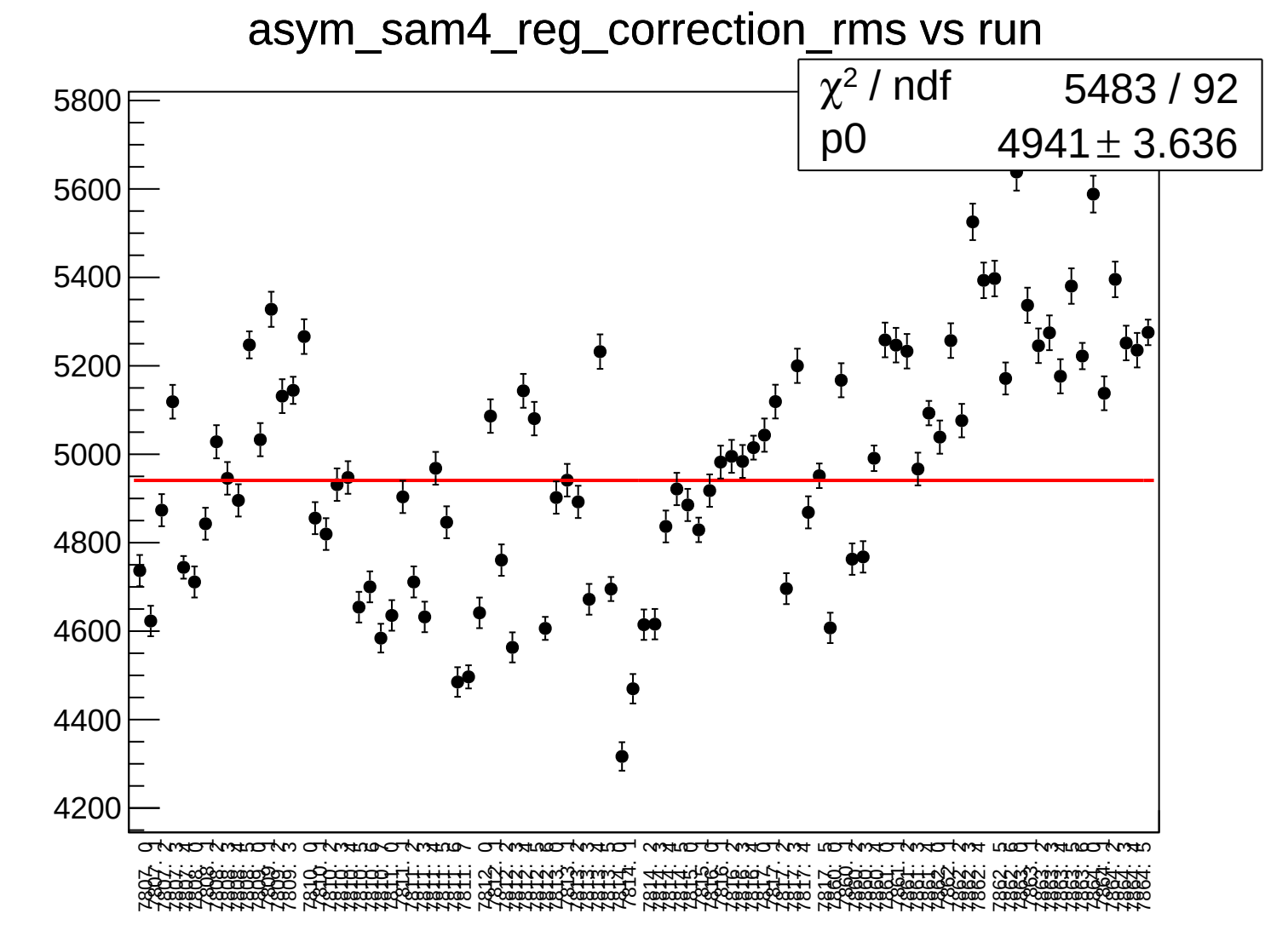

reg_asym_sam4_mean vs run
χ² / ndf 87.63 / 92
p0 69.58 ± 406.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean −429.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

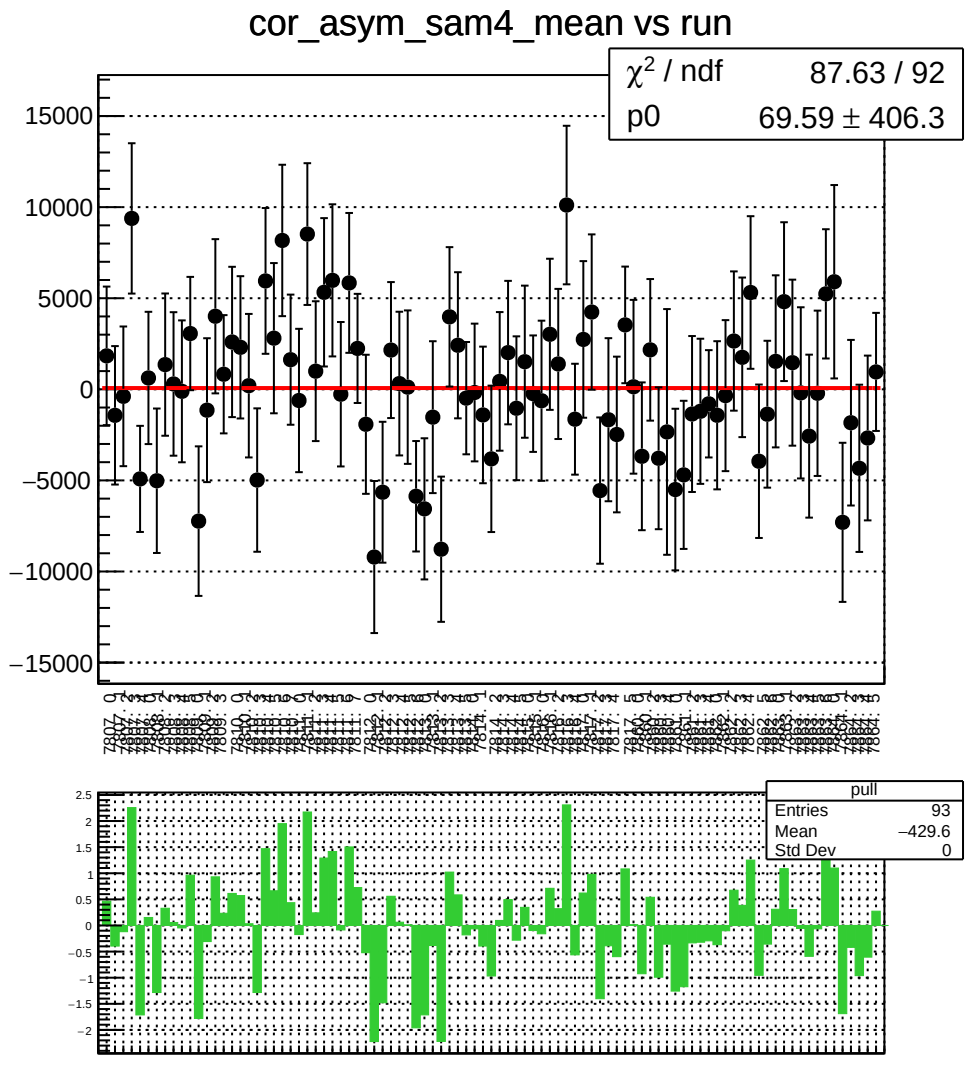

pull1D
Entries 93
Mean 0.005314
Std Dev 0.9707
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

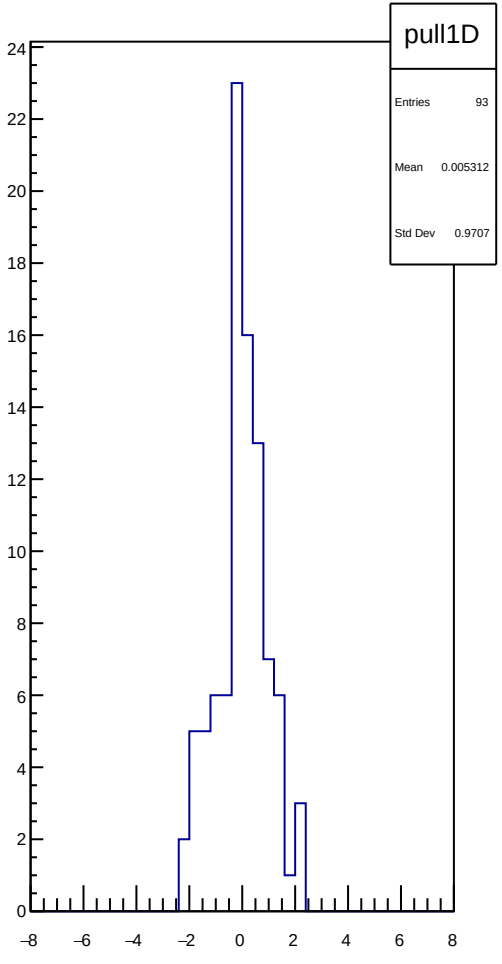

reg_asym_sam4_rms vs run
χ² / ndf 1.552e+04 / 92
p0 389.3 ± 0.2873
800
700
600
500
400
300

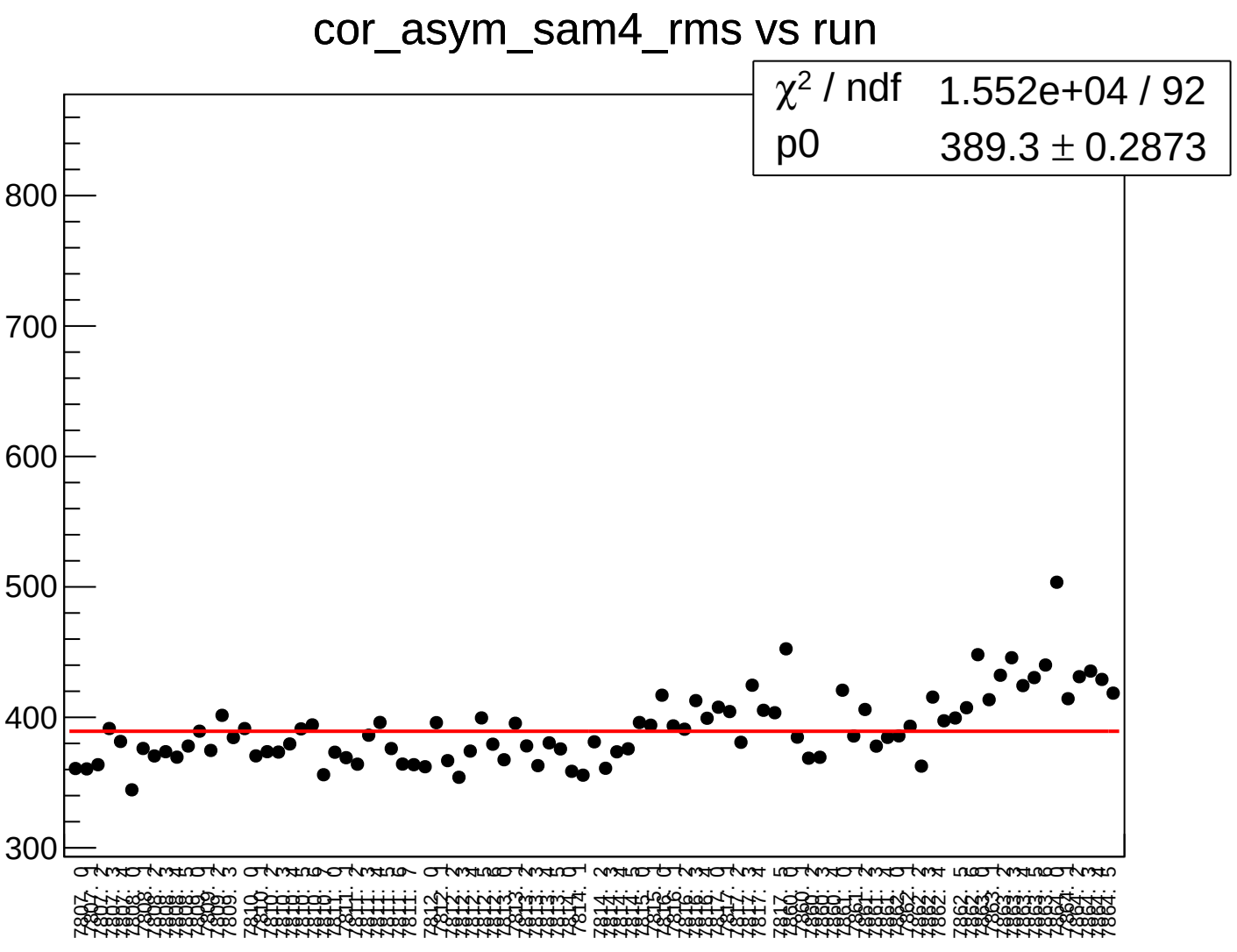

asym_sam4_reg_correction_mean vs run
×10^3
χ² / ndf 82.2 / 92
p0 −2679 ± 5143
pull
Entries 93
Mean −40.18
Std Dev 0

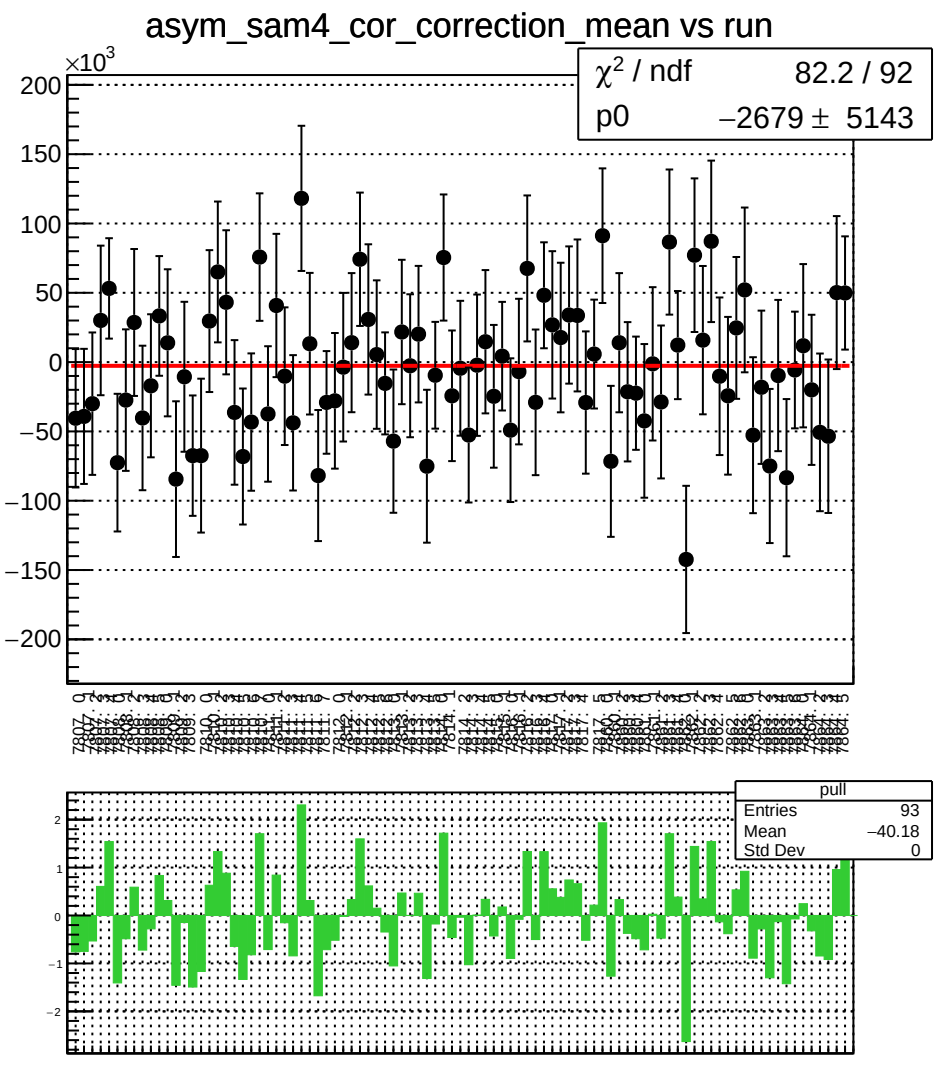

pull1D
Entries 93
Mean −0.01533
Std Dev 0.94

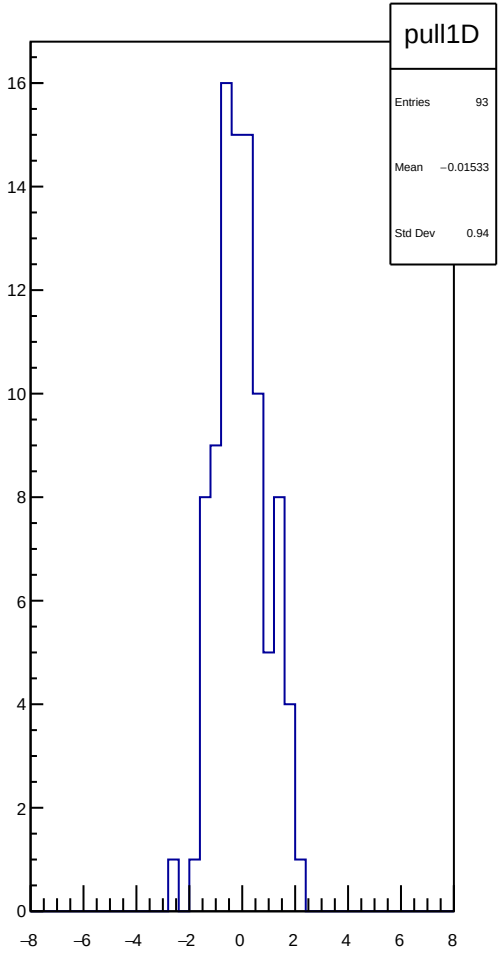

asym_sam4_reg_correction_rms vs run
χ² / ndf 5483 / 92
p0 4941 ± 3.636
5800
5600
5400
5200
5000
4800
4600
4400
4200


cor_asym_sam4_mean vs run
χ² / ndf 87.63 / 92
p0 69.59 ± 406.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean −429.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 93
Mean 0.005312
Std Dev 0.9707
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam4_rms vs run
χ² / ndf 1.552e+04 / 92
p0 389.3 ± 0.2873
800
700
600
500
400
300


asym_sam4_cor_correction_mean vs run
×10^3
χ² / ndf 82.2 / 92
p0 −2679 ± 5143
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean −40.18
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 93
Mean −0.01533
Std Dev 0.94
16
14
12
10
8
6
4
2
0
−8
−6
−4
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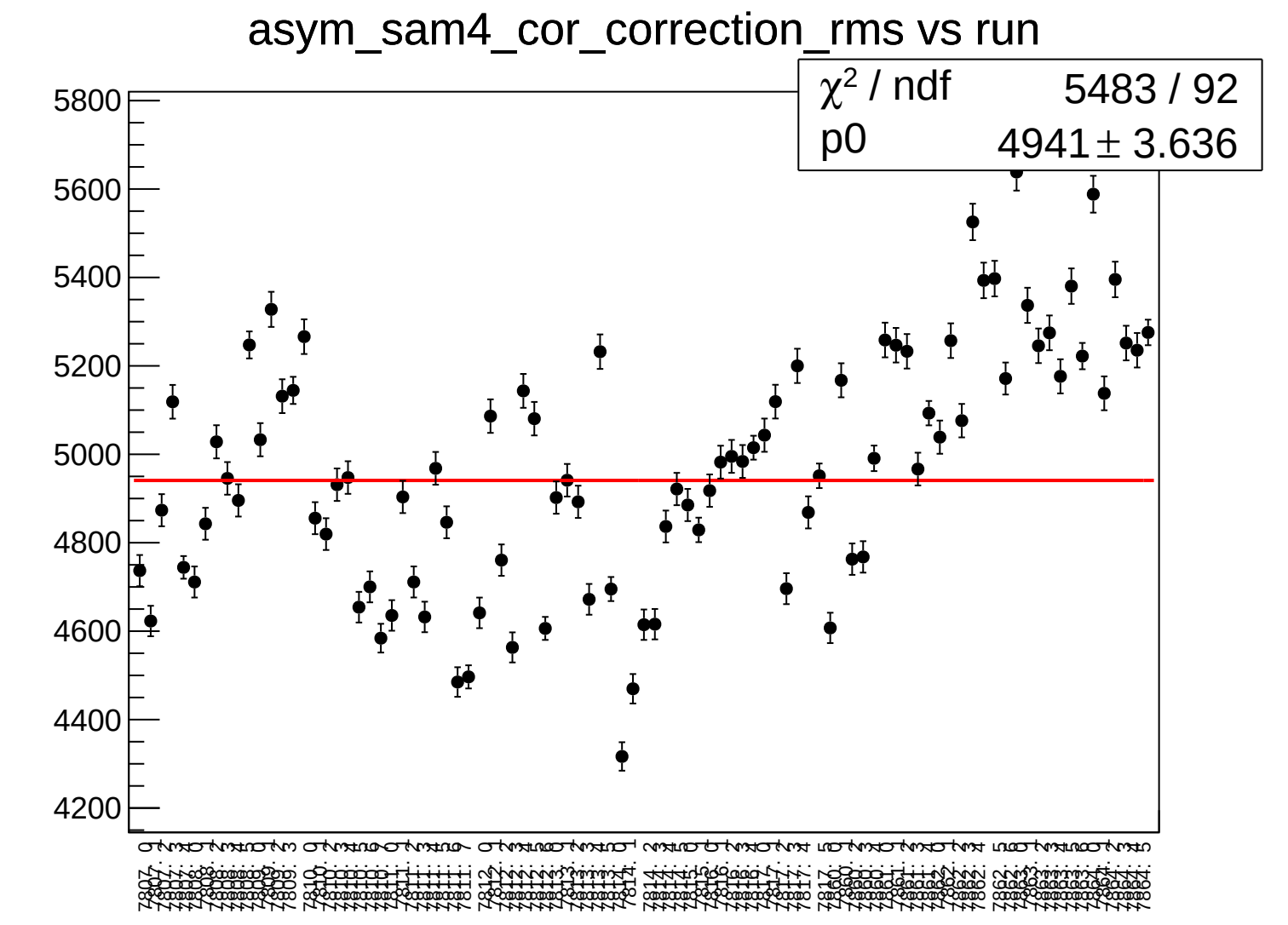
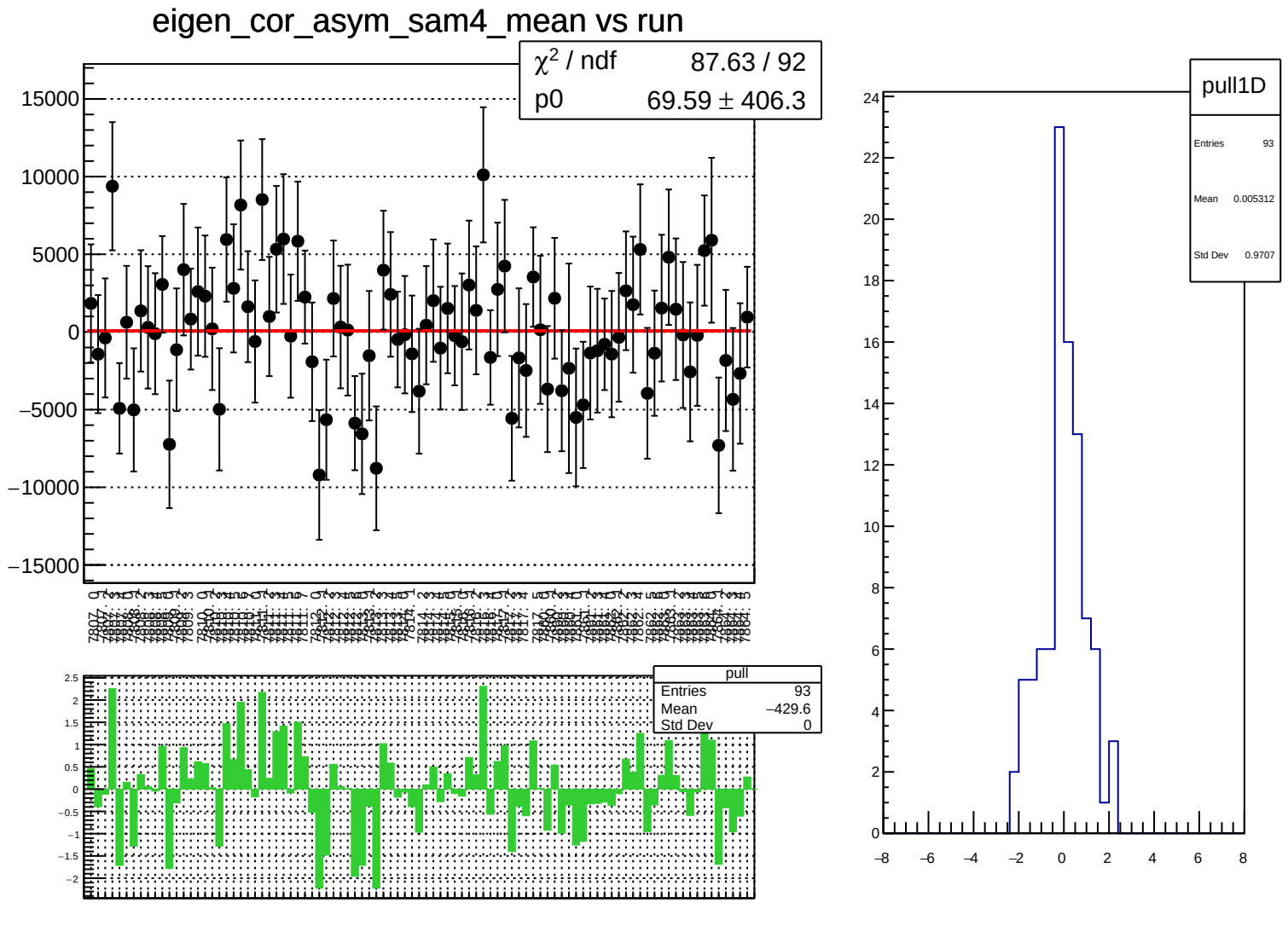
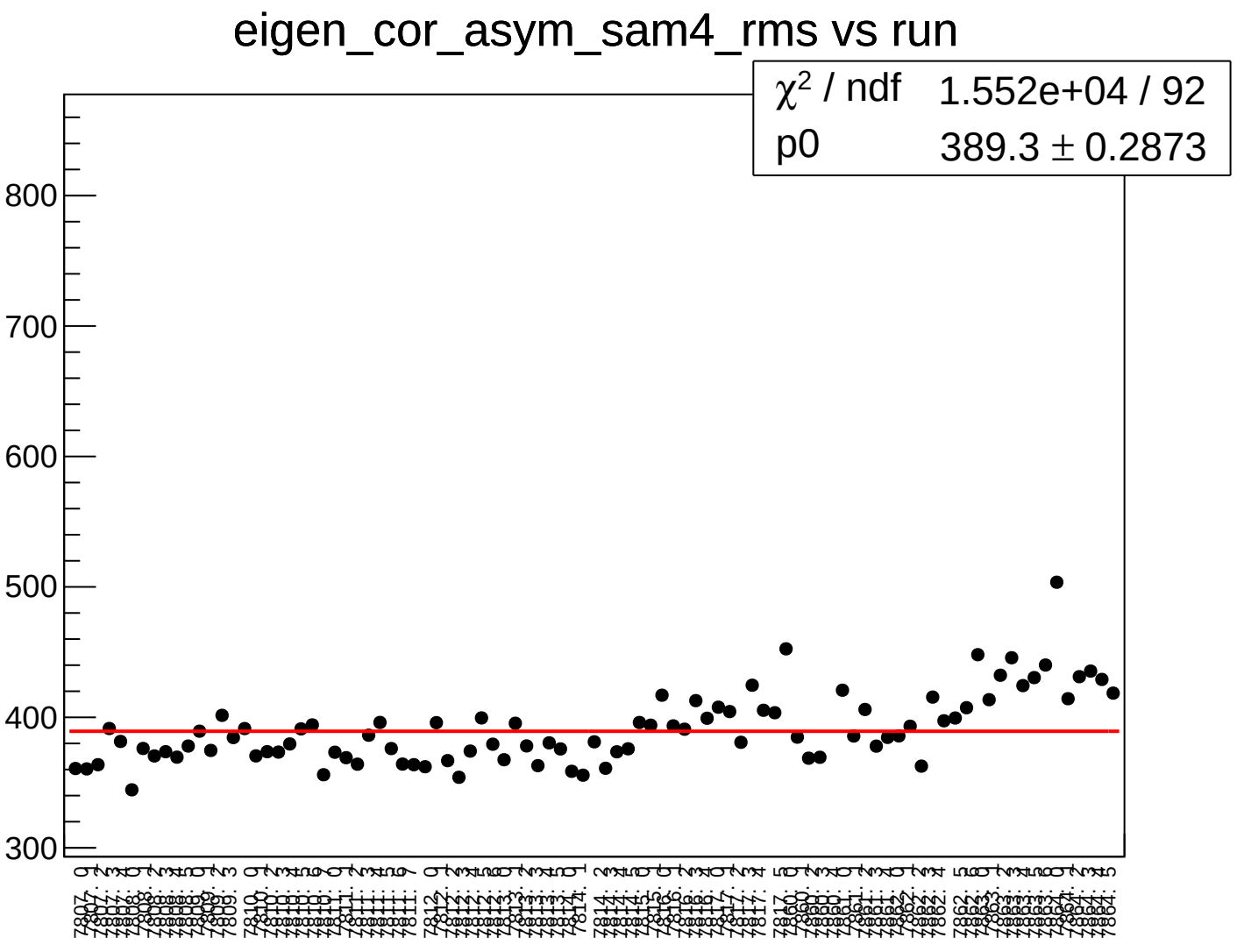
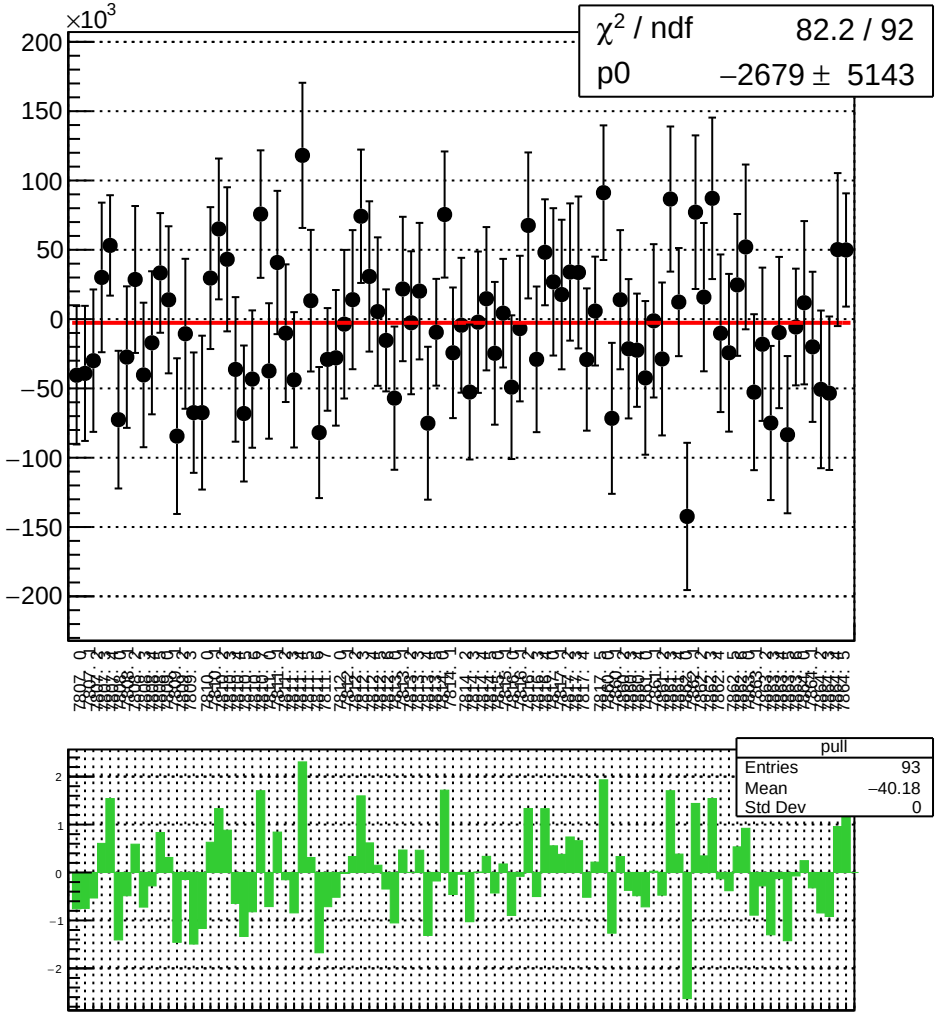
0
2
4
6
8

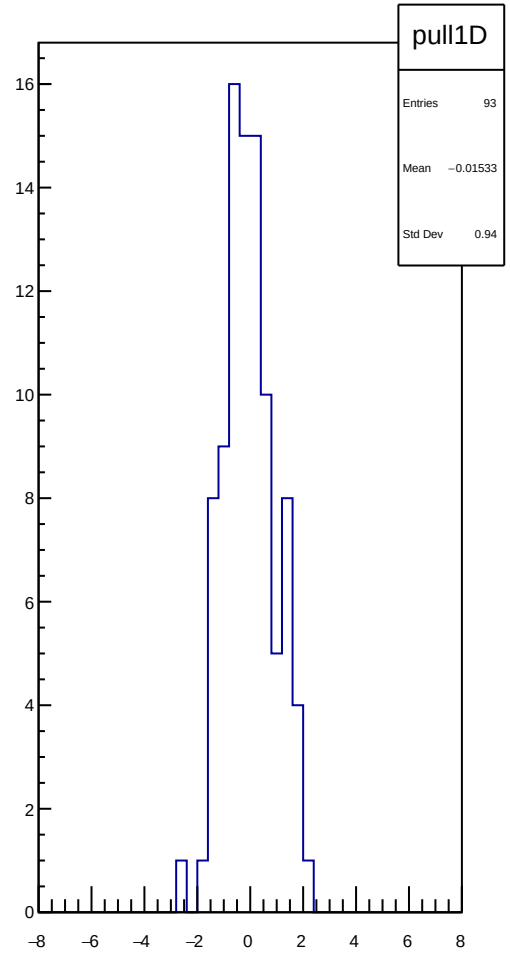

asym_sam4_cor_correction_rms vs run
χ² / ndf 5483 / 92
p0 4941 ± 3.636
5800
5600
5400
5200
5000
4800
4600
4400
4200

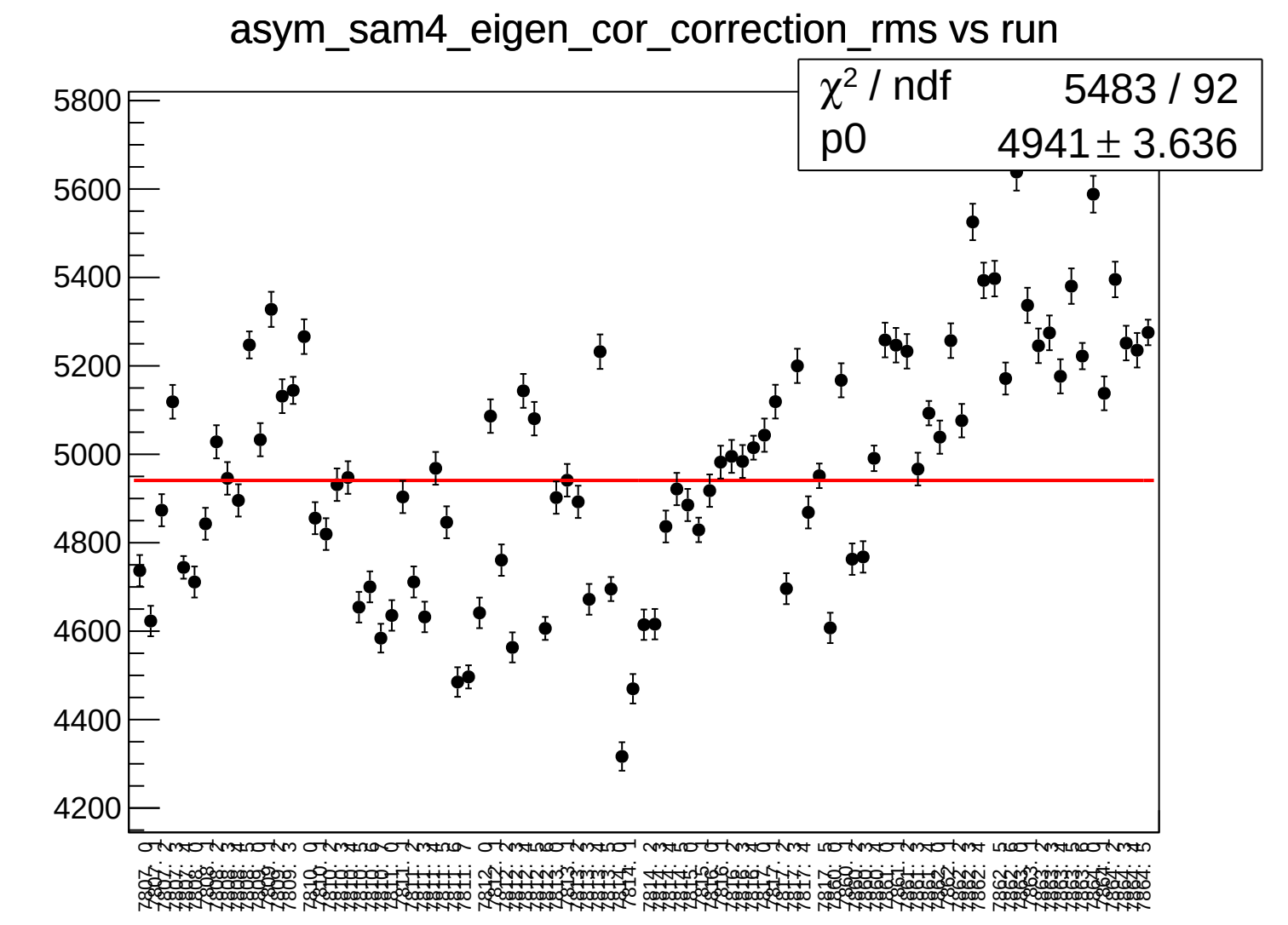

eigen_cor_asym_sam4_mean vs run
χ² / ndf 87.63 / 92
p0 69.59 ± 406.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean −429.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean 0.005312
Std Dev 0.9707
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

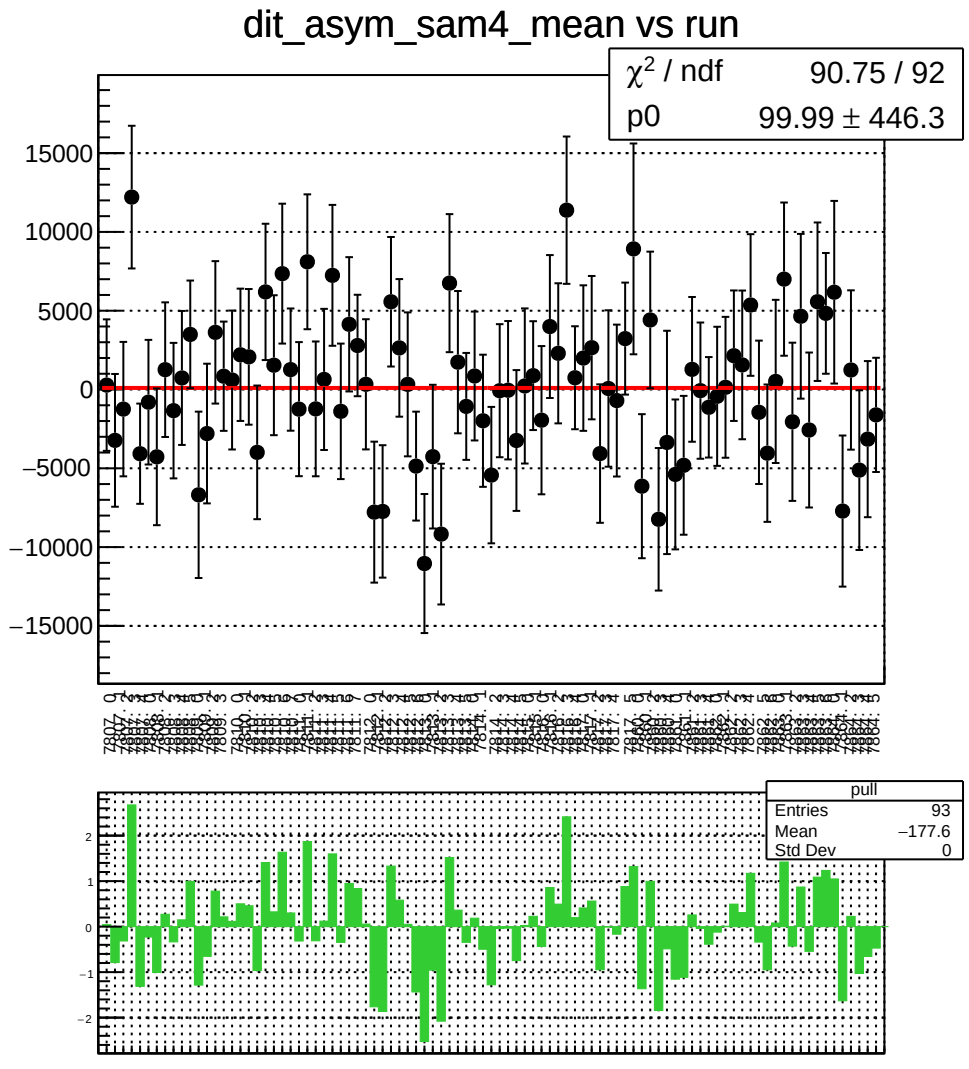

eigen_cor_asym_sam4_rms vs run
χ² / ndf 1.552e+04 / 92
p0 389.3 ± 0.2873
800
700
600
500
400
300

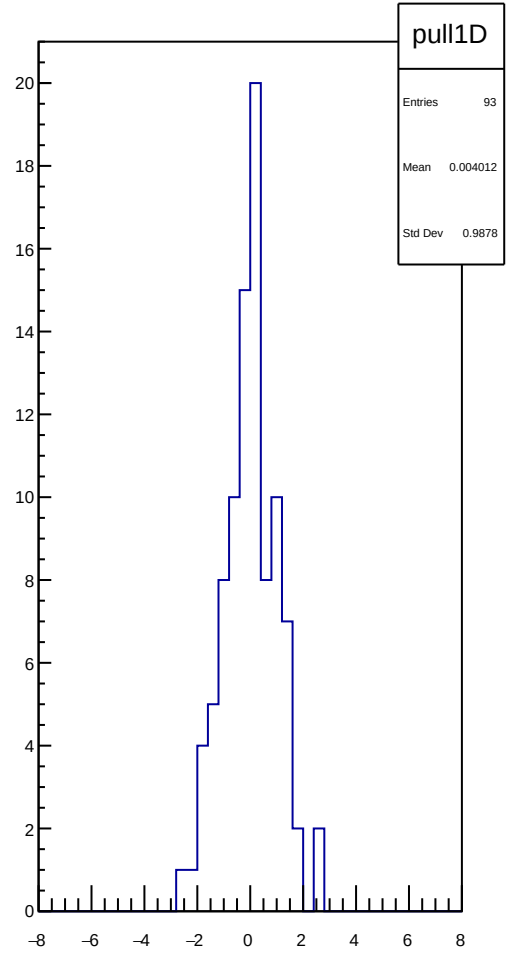
asym_sam4_eigen_cor_correction_mean vs run

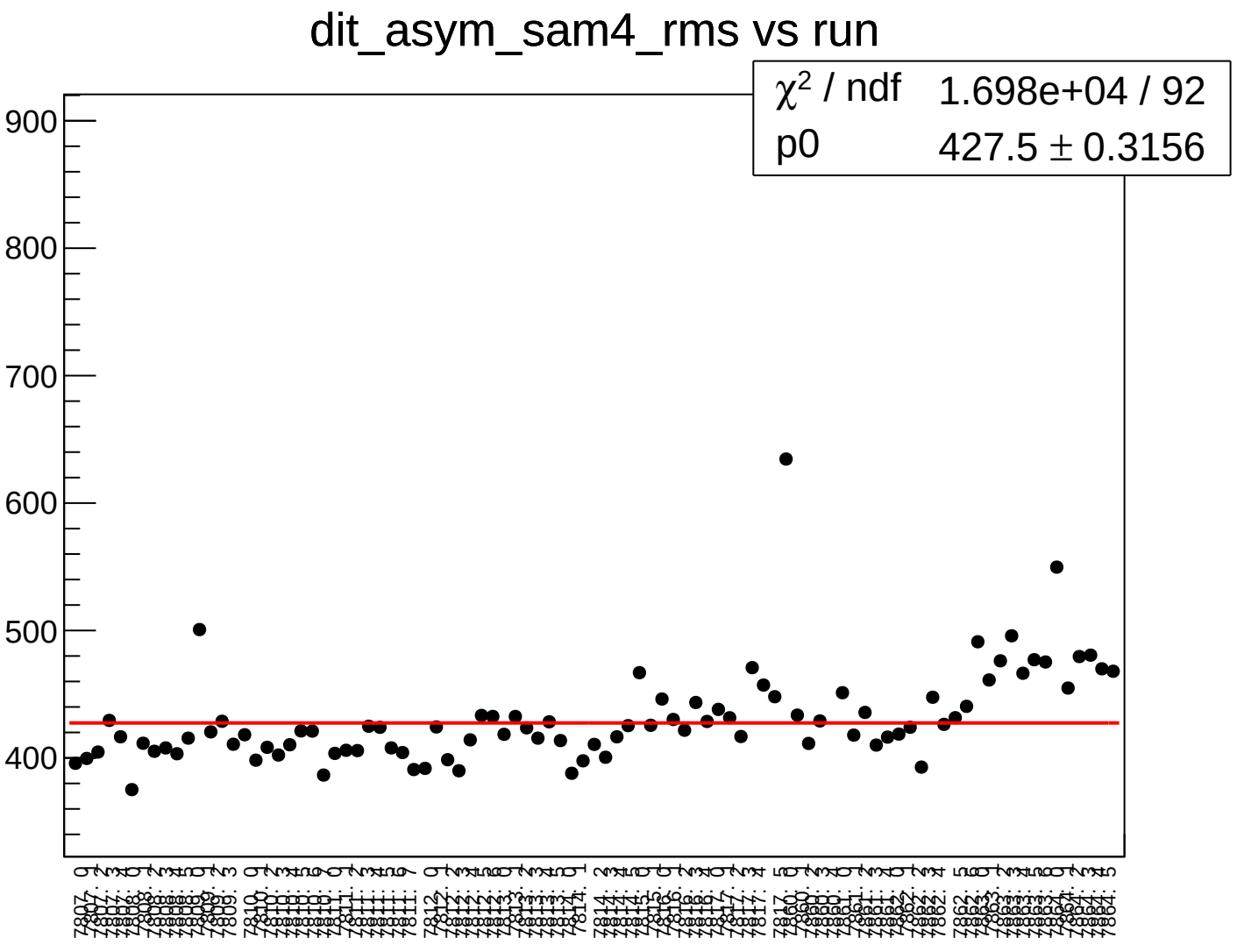


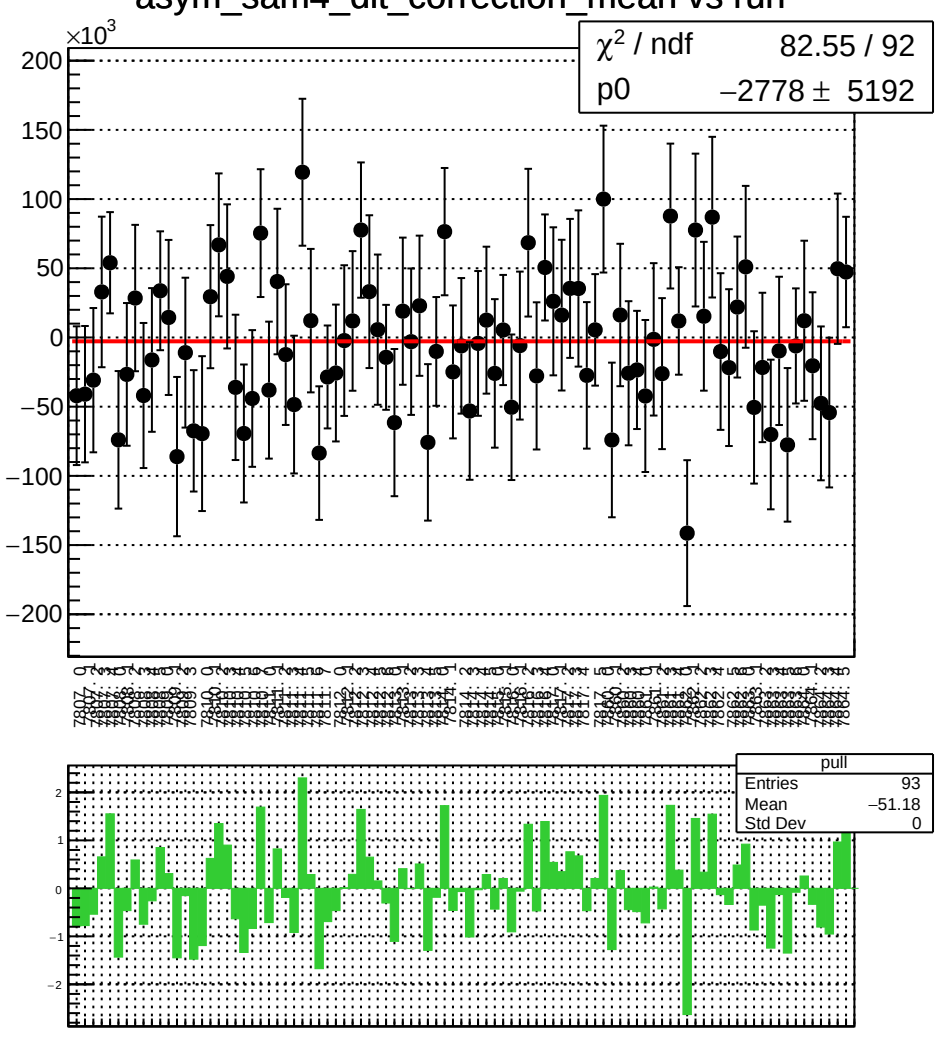


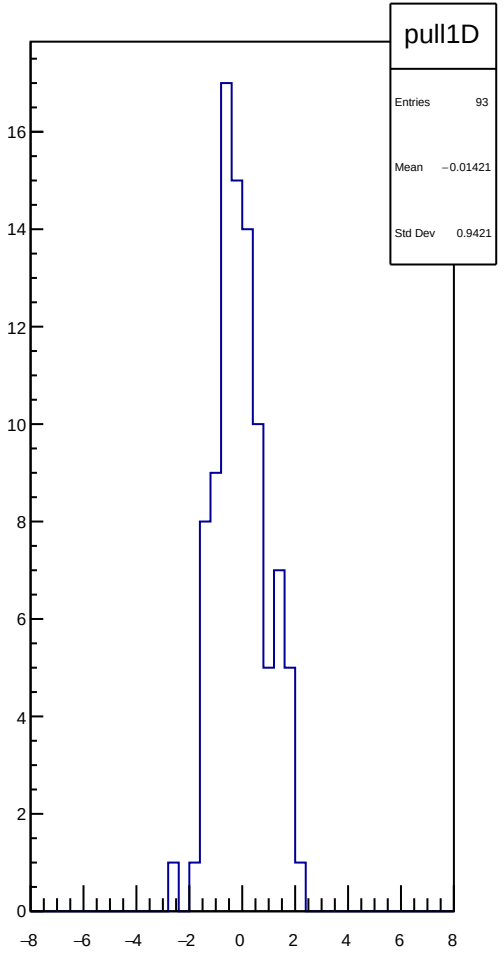

asym_sam4_eigen_cor_correction_rms vs run
χ^2 / ndf 5483 / 92
p0 4941 ± 3.636
5800
5600
5400
5200
5000
4800
4600
4400
4200

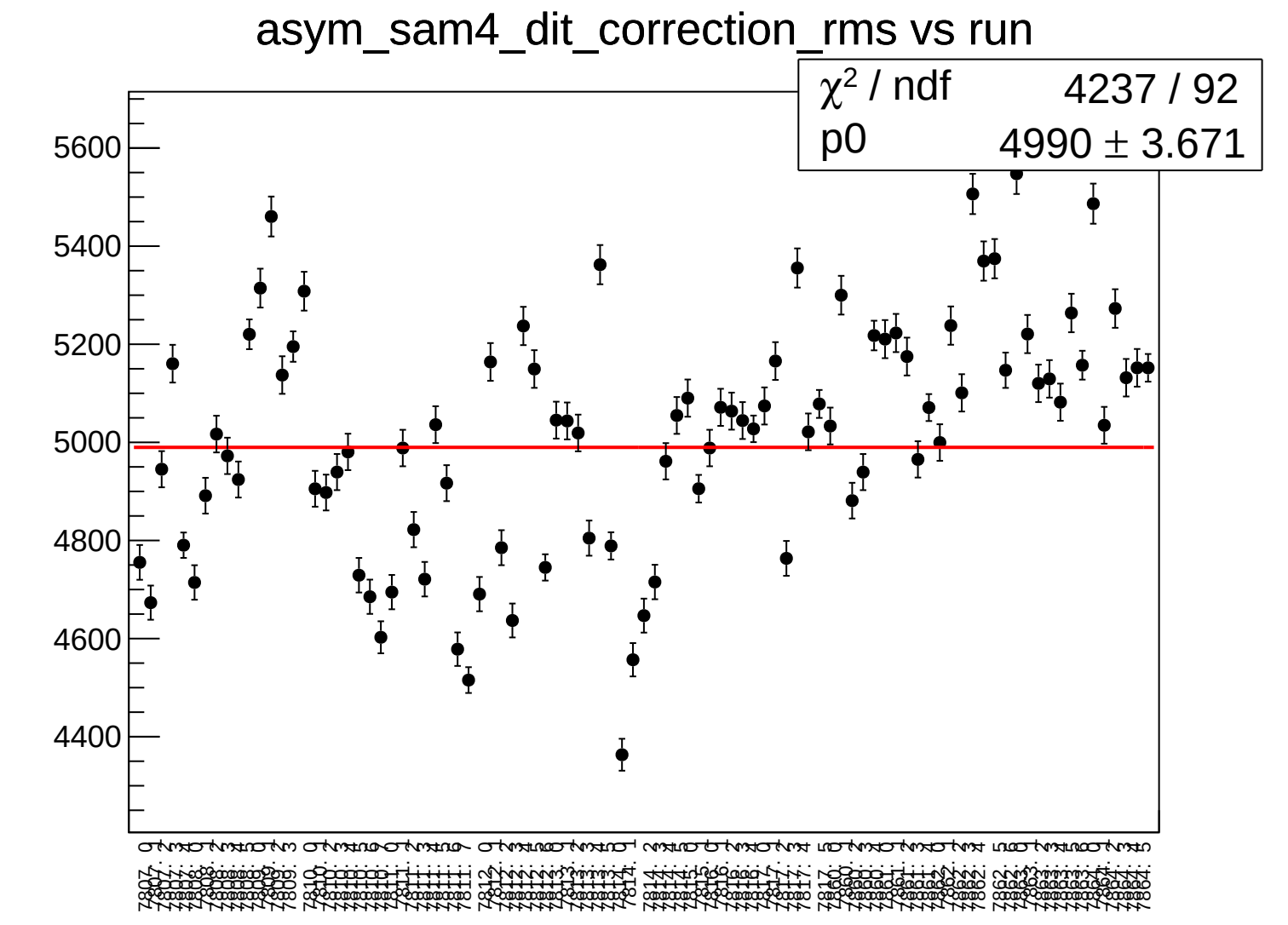

dit_asym_sam4_mean vs run
χ² / ndf 90.75 / 92
p0 99.99 ± 446.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean −177.6
Std Dev 0
2
1
0
−1
−2

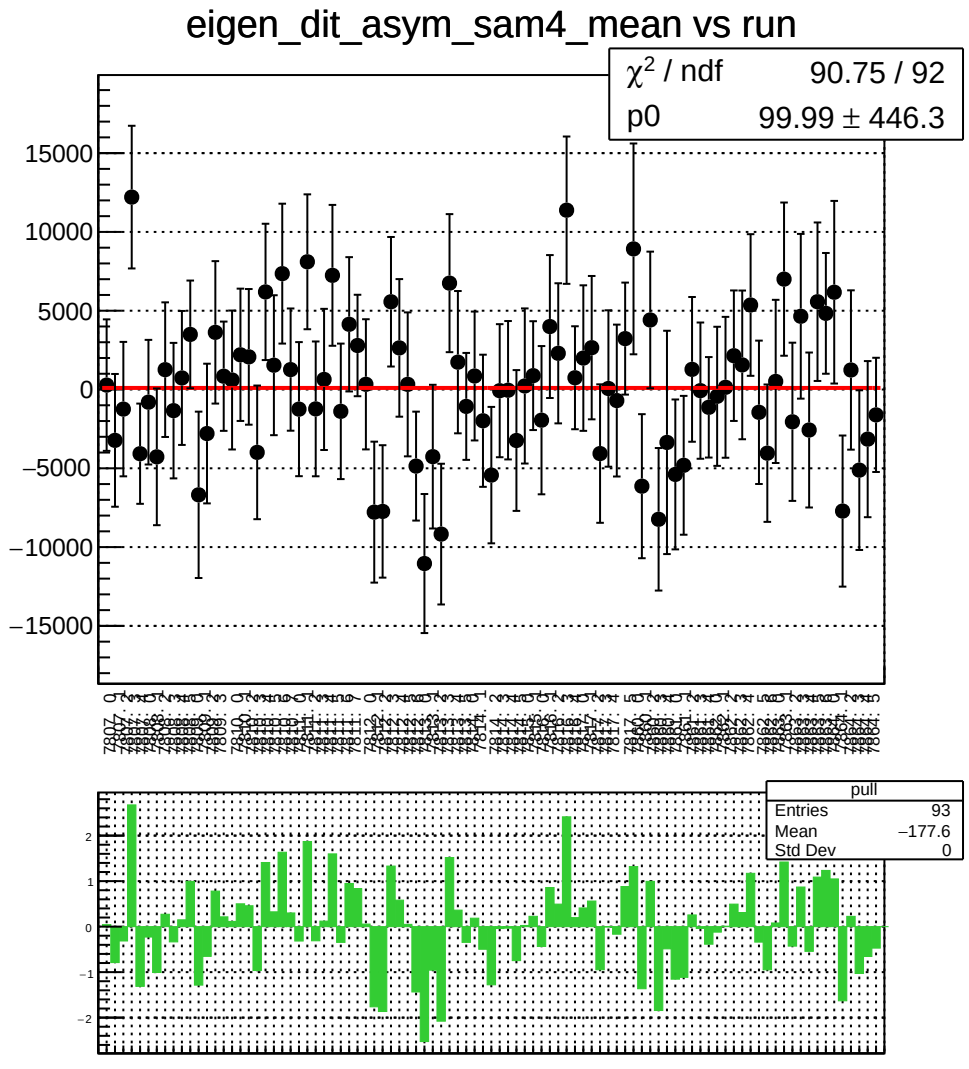

pull1D
Entries 93
Mean 0.004012
Std Dev 0.9878
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

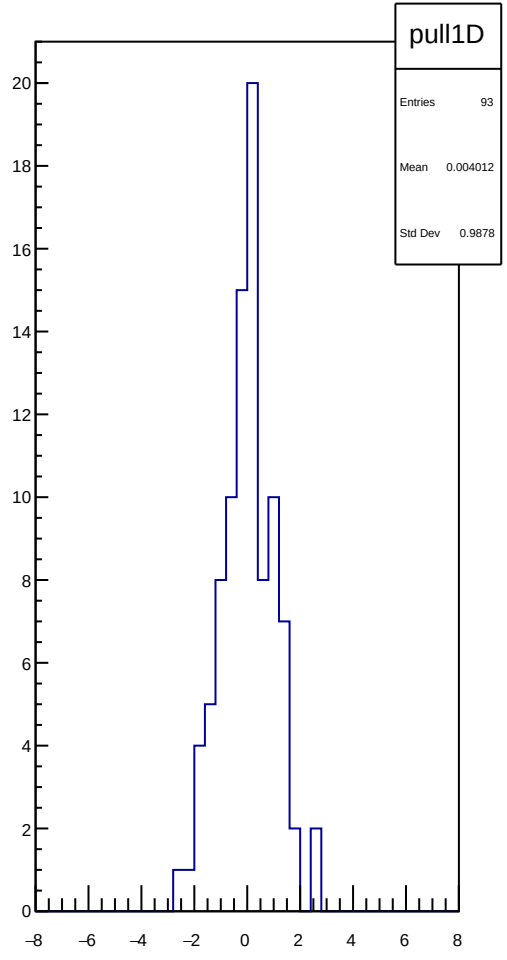

dit_asym_sam4_rms vs run
χ^2 / ndf 1.698e+04 / 92
p0 427.5 ± 0.3156
900
800
700
600
500
400

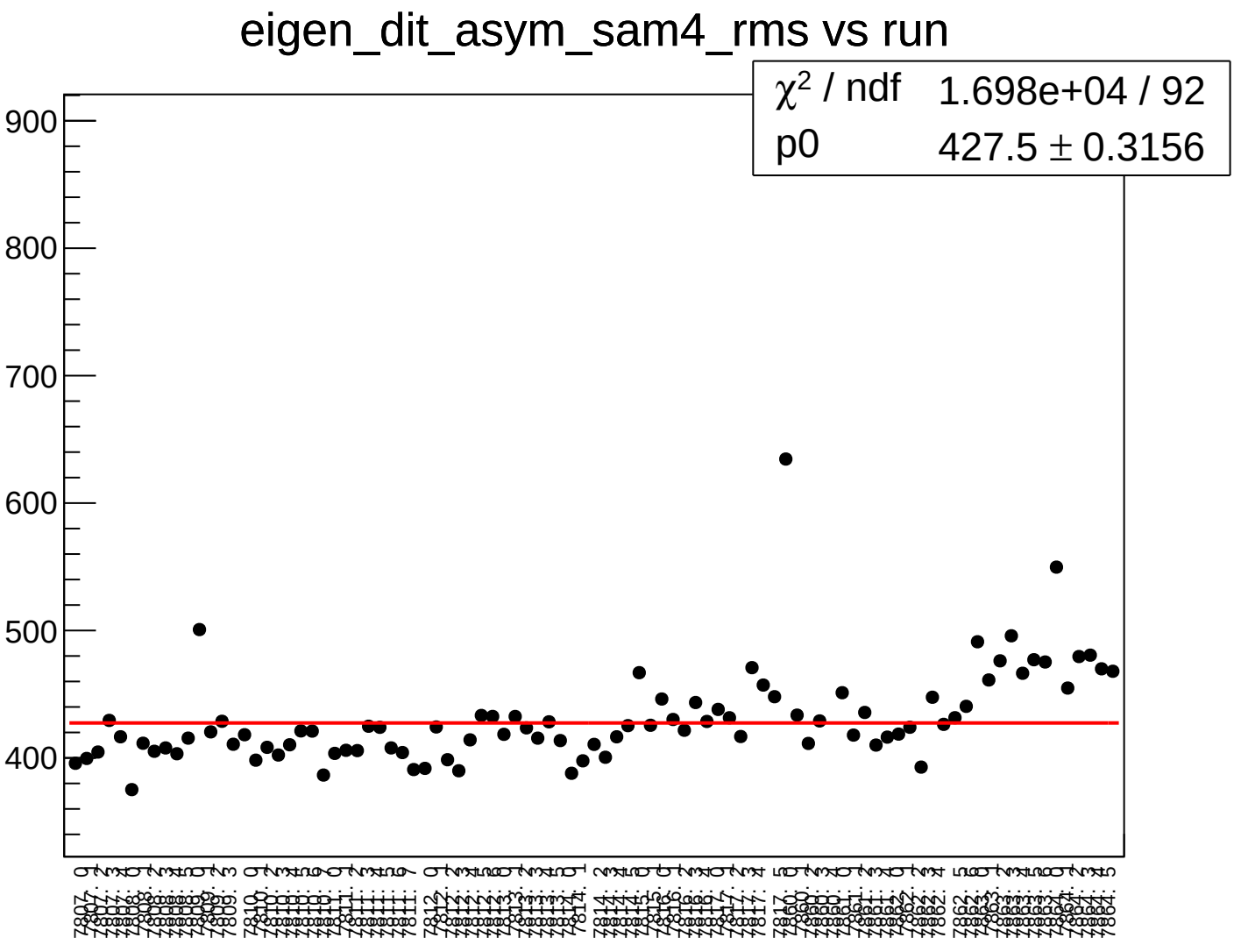

asym_sam4_dit_correction_mean vs run
×10^3
χ² / ndf 82.55 / 92
p0 −2778 ± 5192
pull
Entries 93
Mean −51.18
Std Dev 0

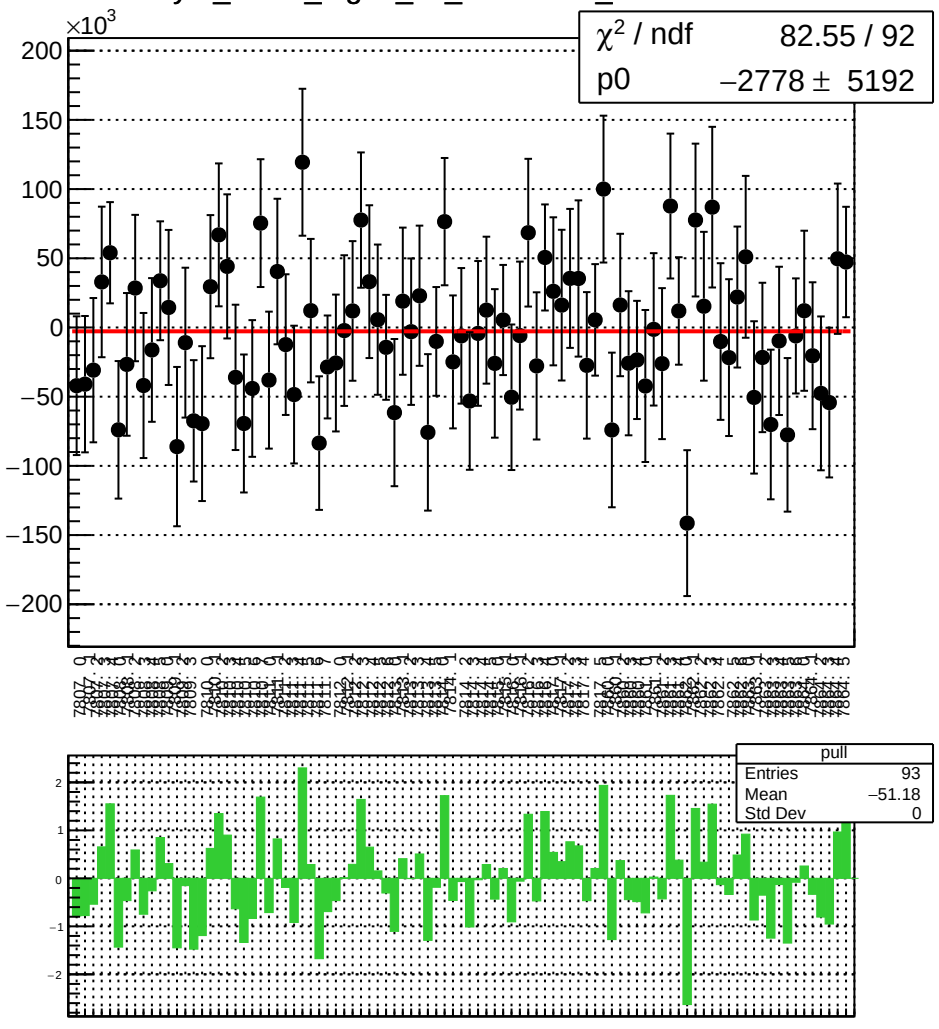

pull1D
Entries 93
Mean −0.01421
Std Dev 0.9421

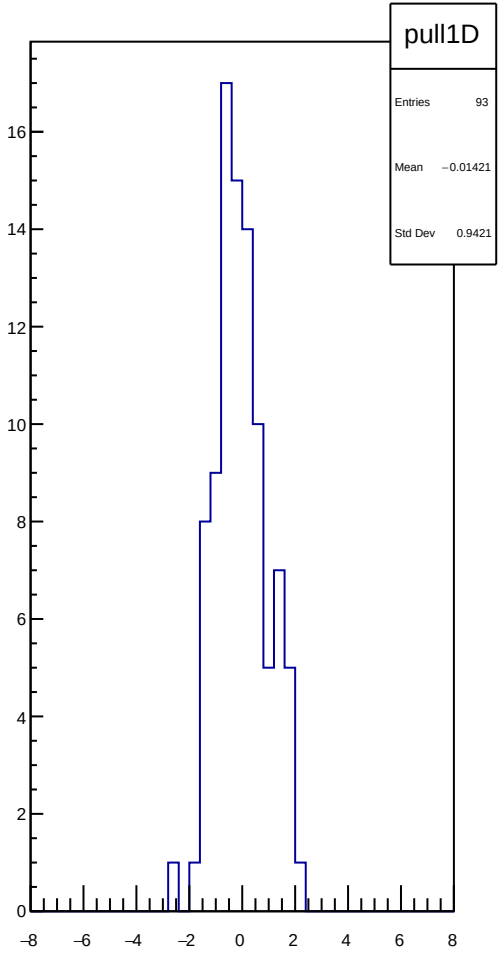

asym_sam4_dit_correction_rms vs run
χ² / ndf 4237 / 92
p0 4990 ± 3.671
5600
5400
5200
5000
4800
4600
4400

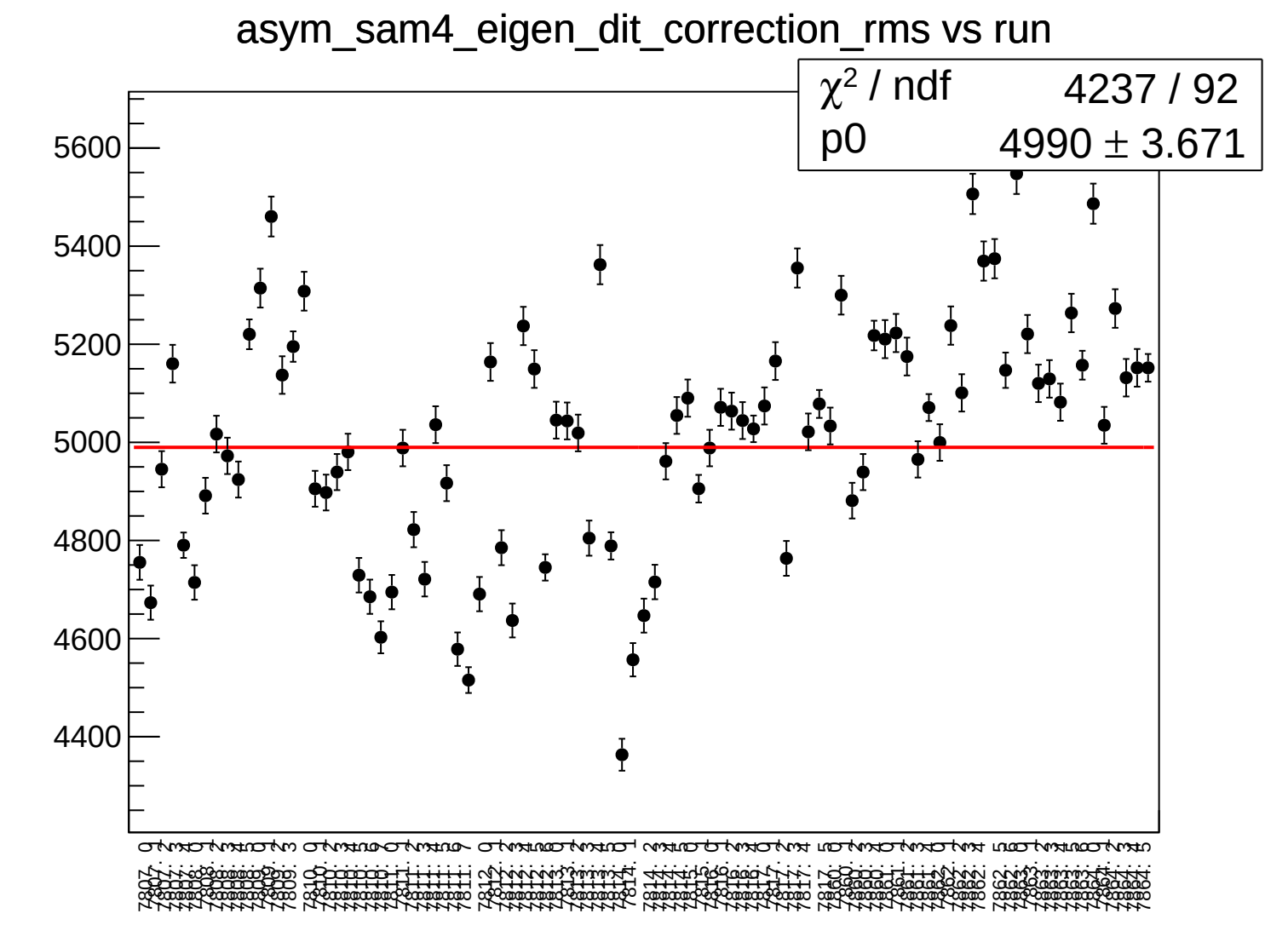

eigen_dit_asym_sam4_mean vs run
χ² / ndf 90.75 / 92
p0 99.99 ± 446.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean −177.6
Std Dev 0
2
1
0
−1
−2

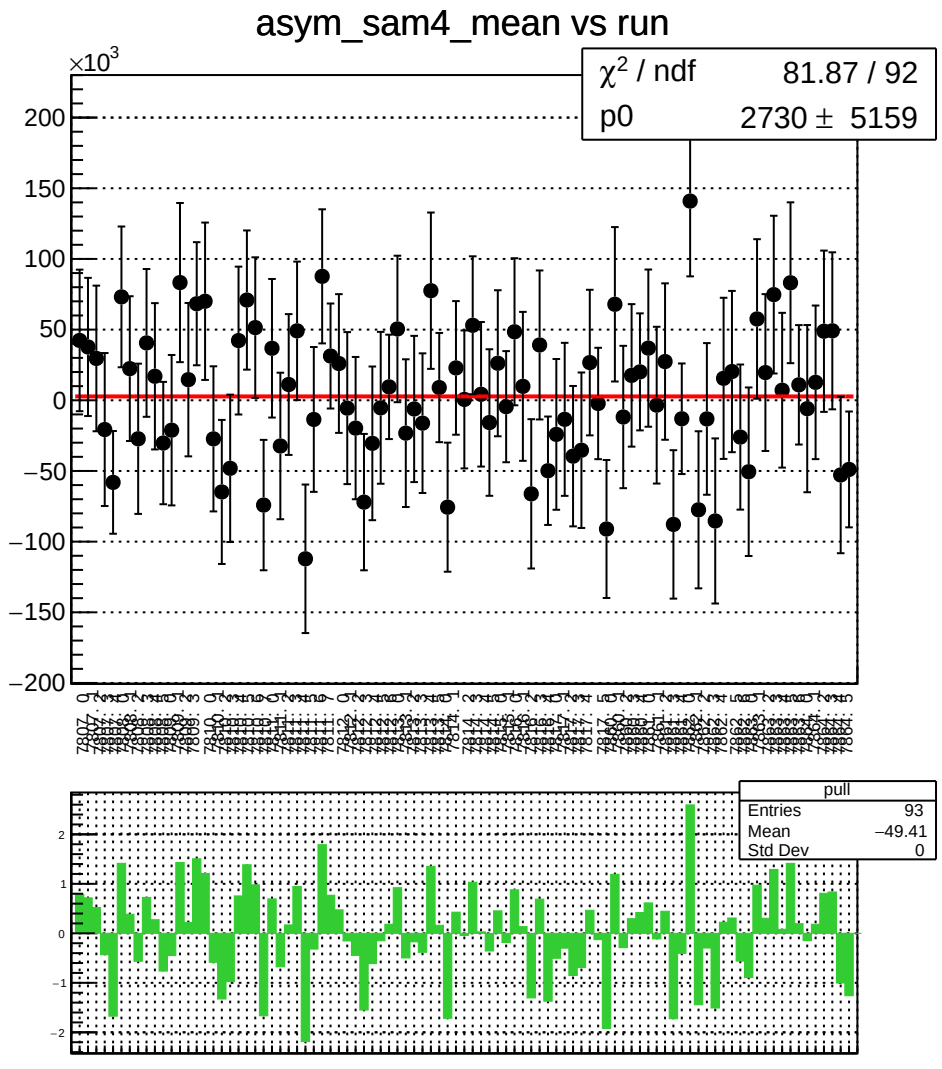

pull1D
Entries 93
Mean 0.004012
Std Dev 0.9878
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

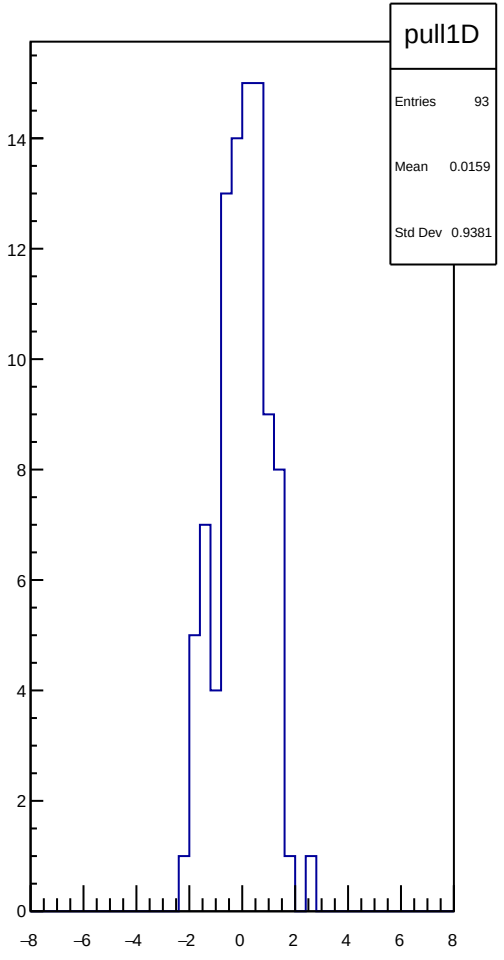

eigen_dit_asym_sam4_rms vs run
χ^2 / ndf 1.698e+04 / 92
p0 427.5 ± 0.3156
900
800
700
600
500
400

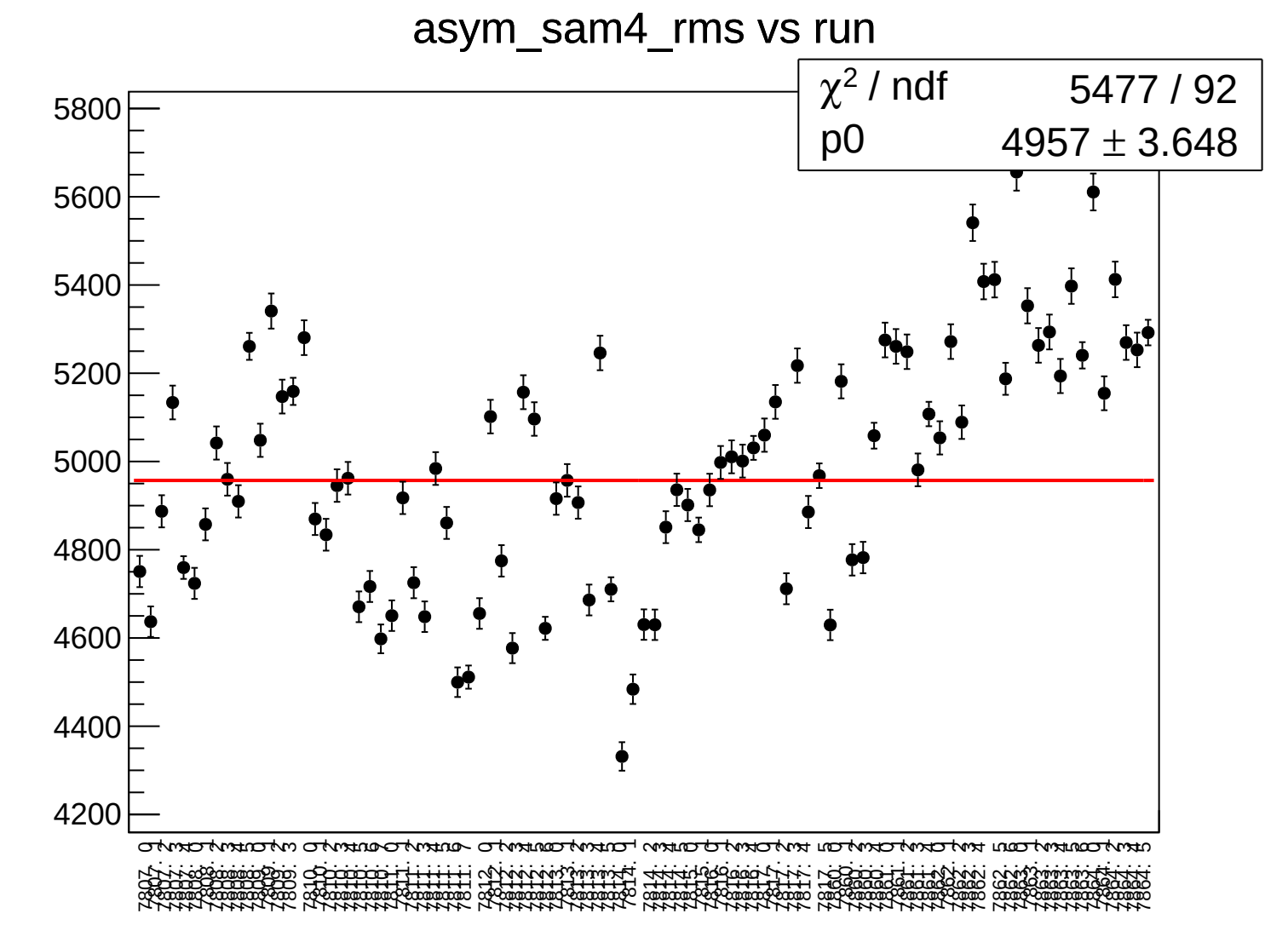

asym_sam4_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 82.55 / 92
p0 −2778 ± 5192
pull
Entries 93
Mean −51.18
Std Dev 0

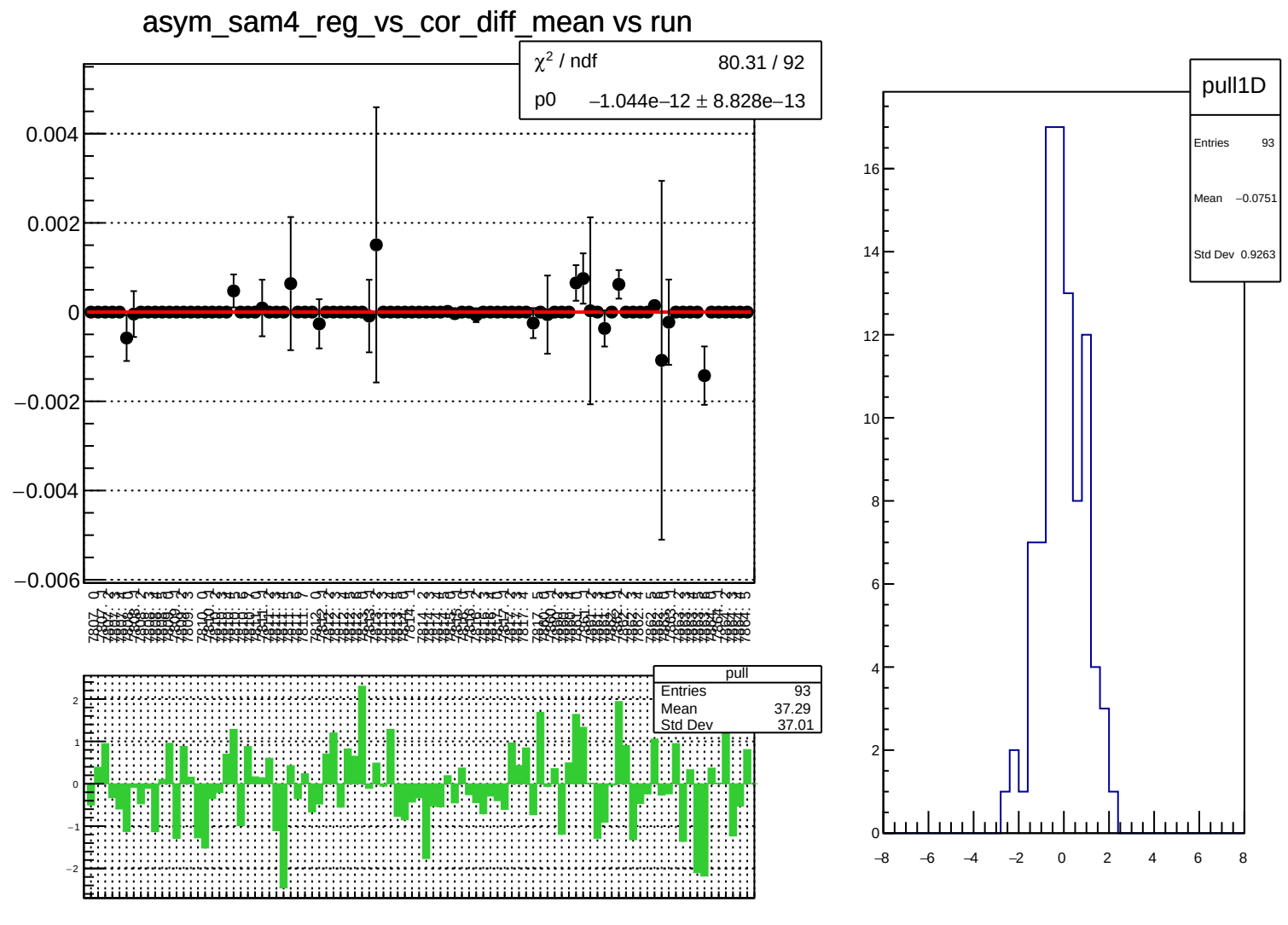

pull1D
Entries 93
Mean −0.01421
Std Dev 0.9421

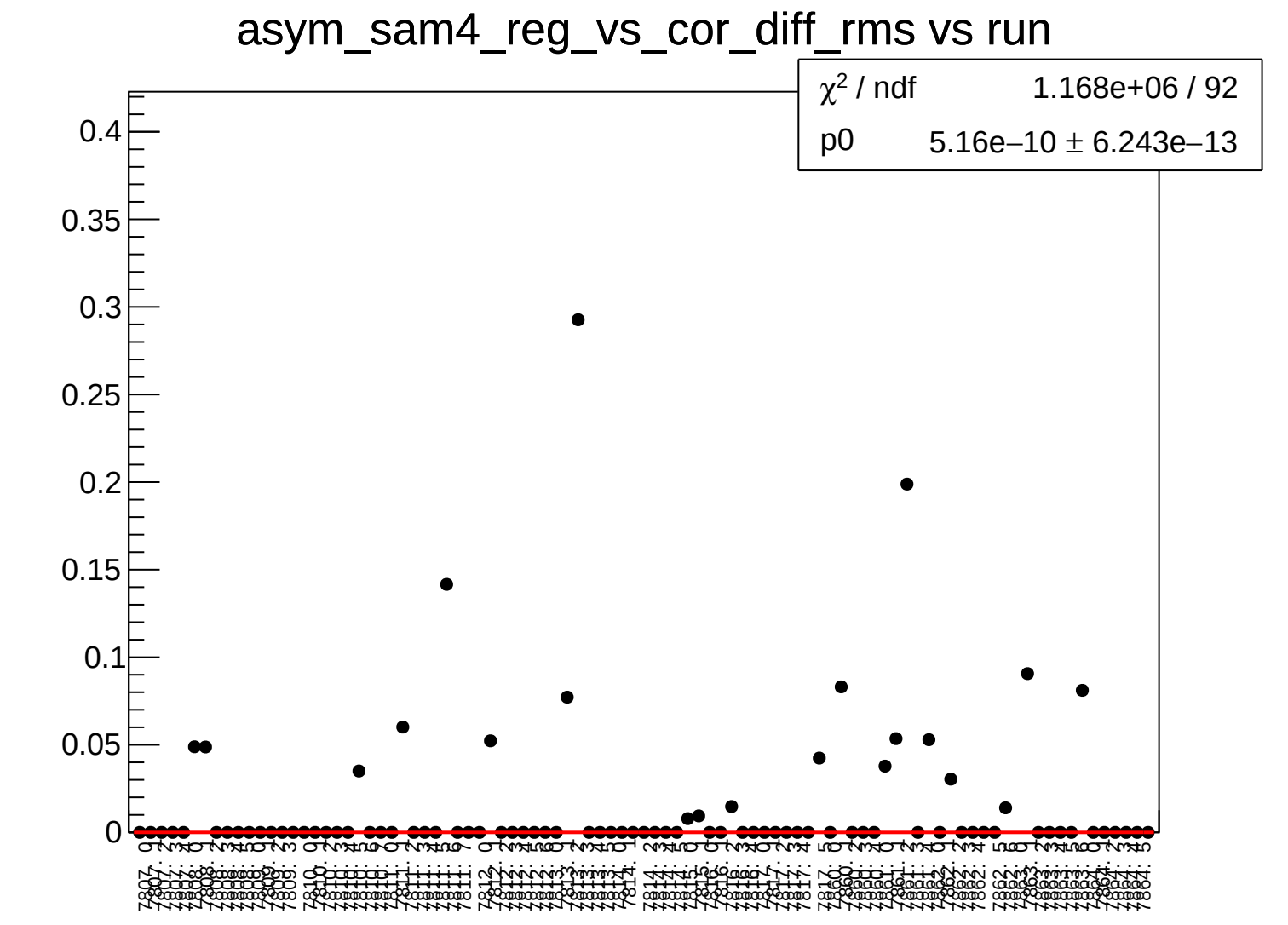

asym_sam4_eigen_dit_correction_rms vs run
χ² / ndf 4237 / 92
p0 4990 ± 3.671
5600
5400
5200
5000
4800
4600
4400

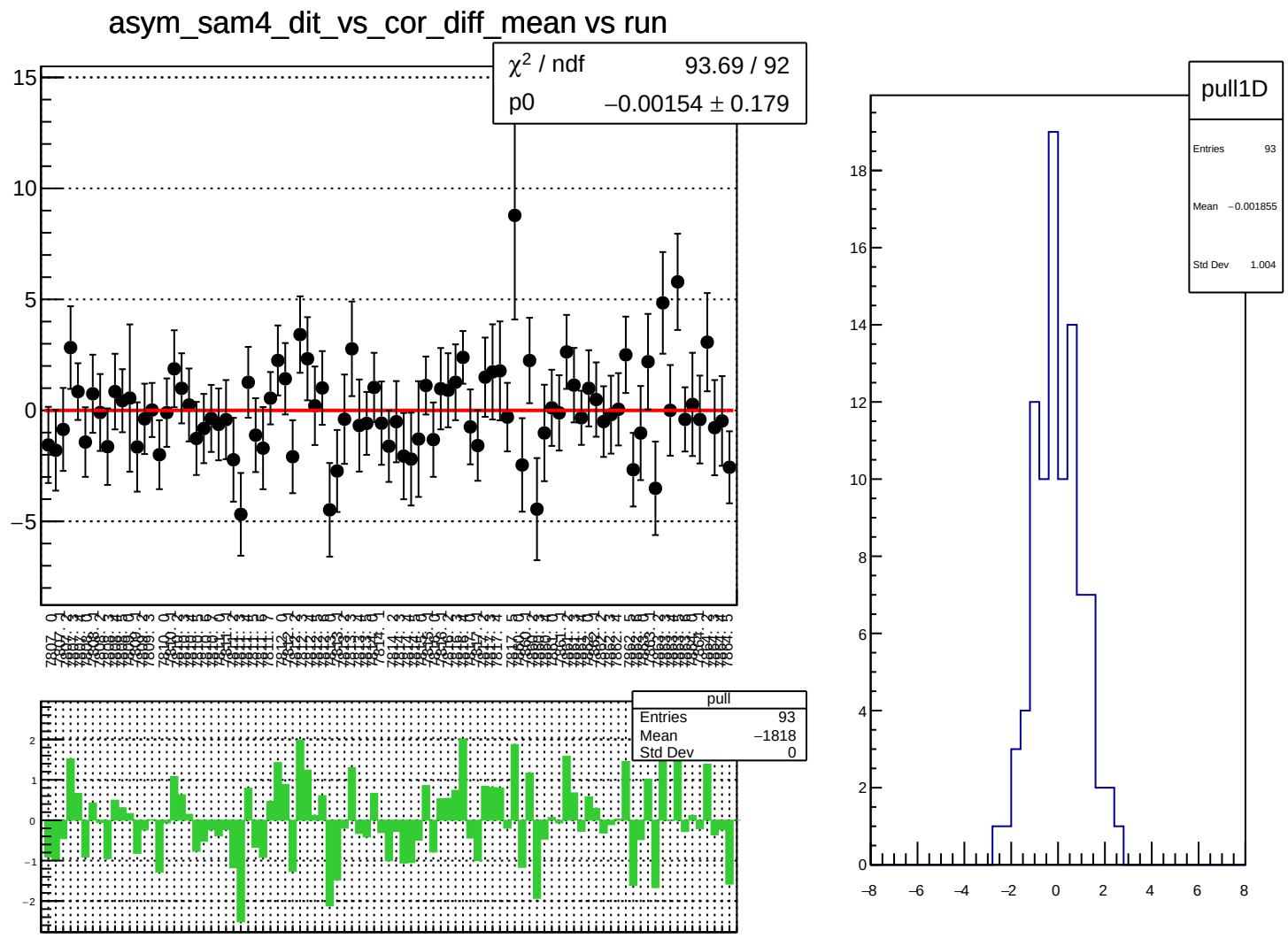

asym_sam4_mean vs run
×10^3
χ^2 / ndf 81.87 / 92
p0 2730 ± 5159
pull
Entries 93
Mean −49.41
Std Dev 0

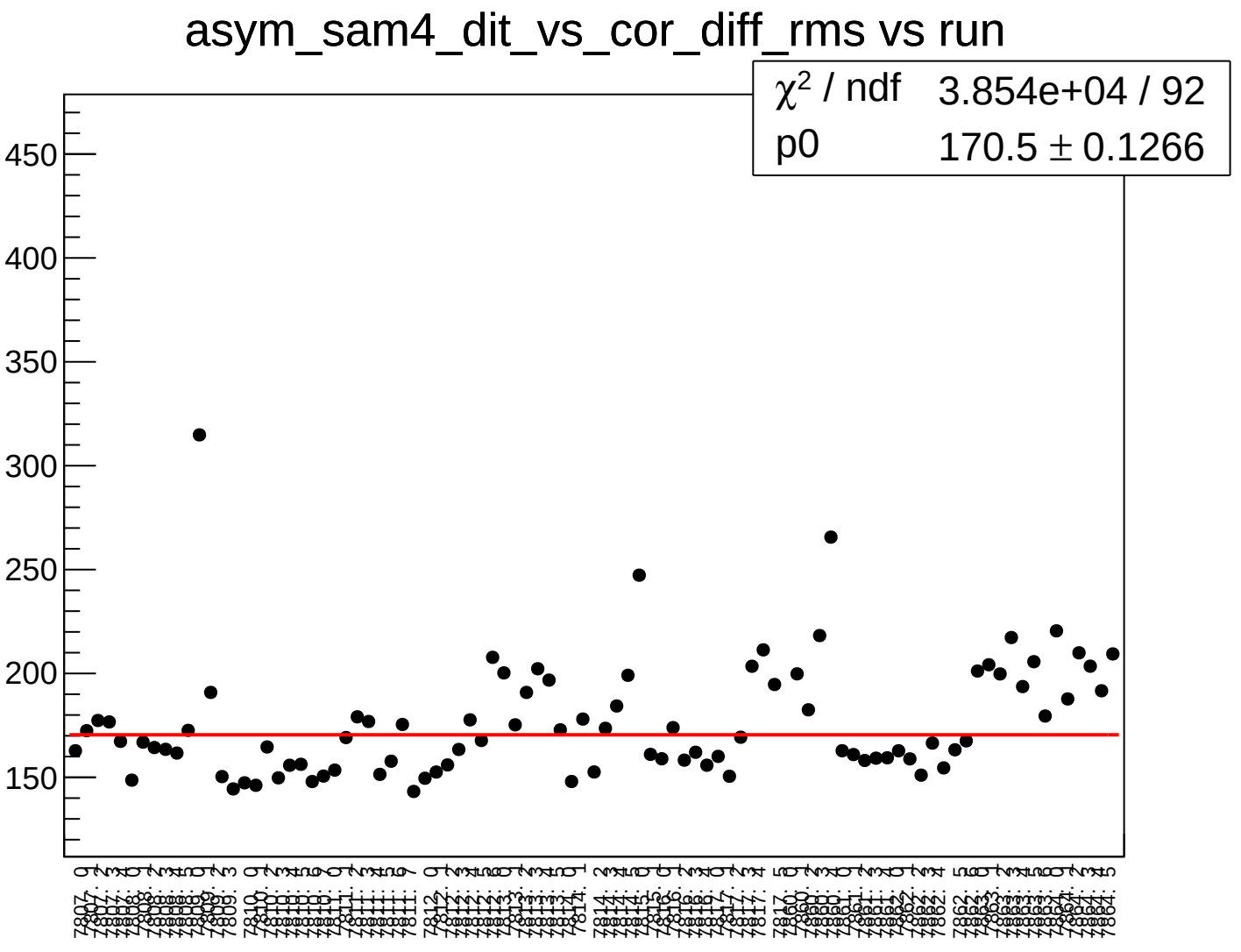

pull1D
Entries 93
Mean 0.0159
Std Dev 0.9381

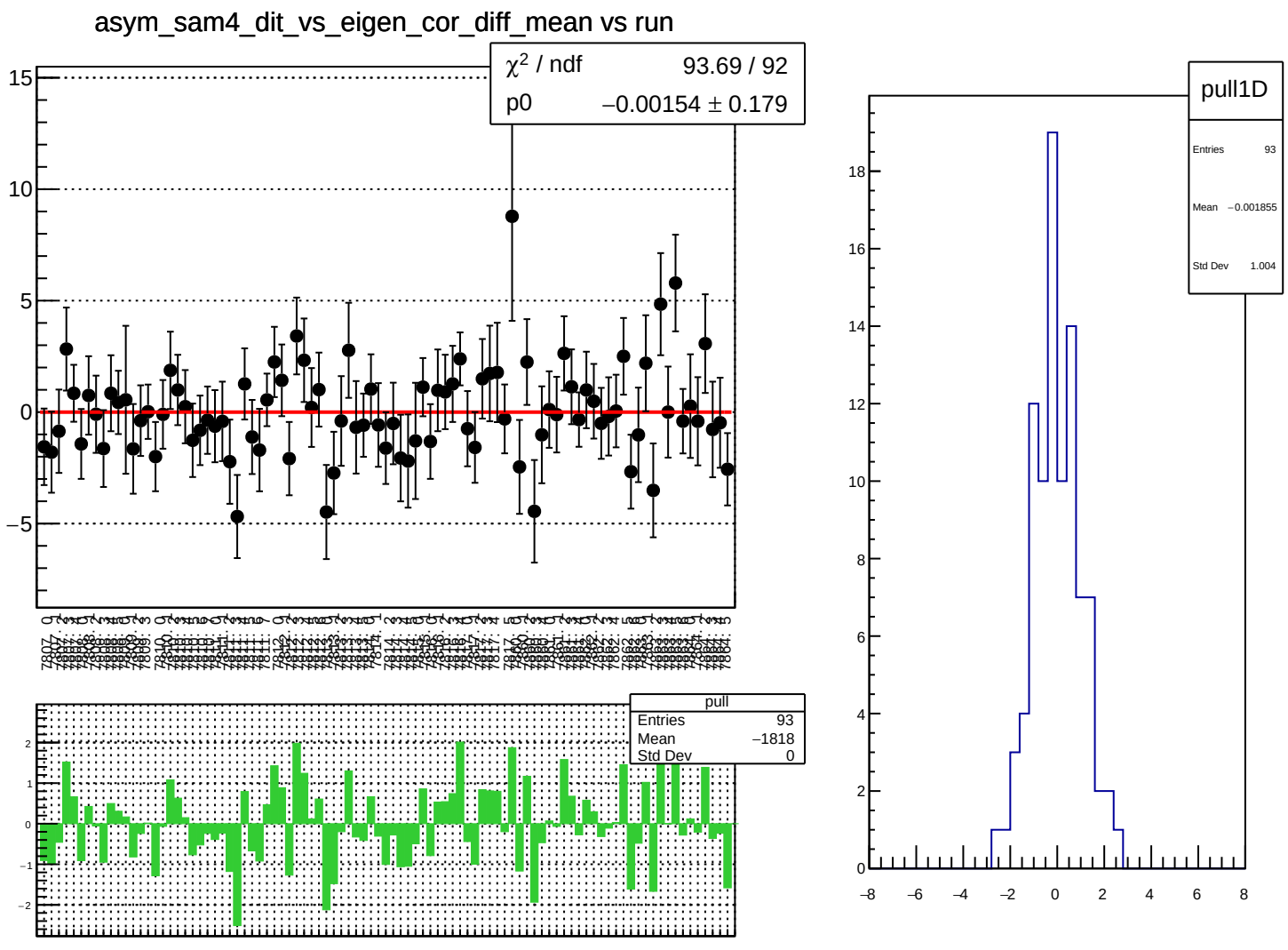

asym_sam4_rms vs run
χ² / ndf 5477 / 92
p0 4957 ± 3.648
5800
5600
5400
5200
5000
4800
4600
4400
4200

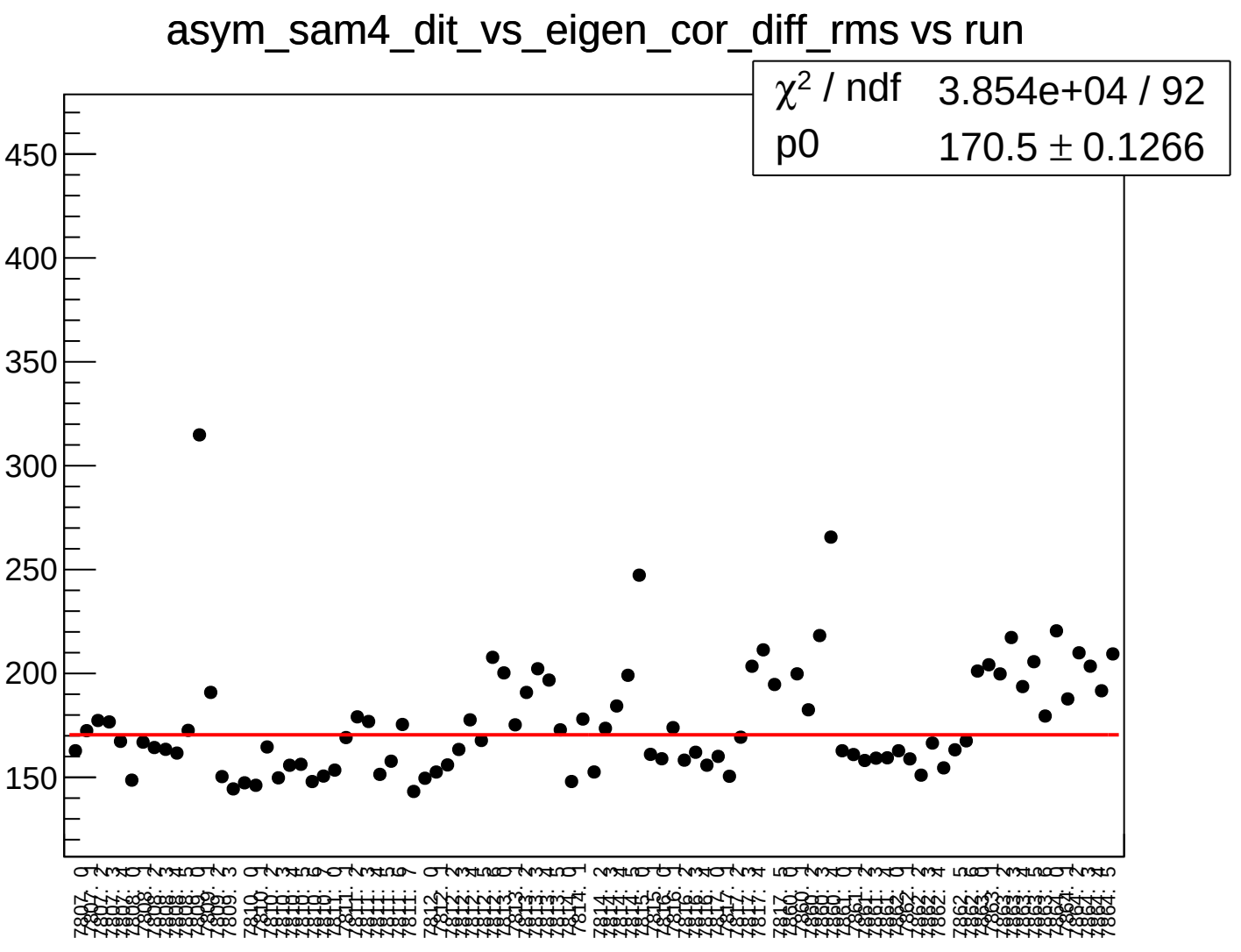

asym_sam4_reg_vs_cor_diff_mean vs run
χ² / ndf 80.31 / 92
p0 −1.044e−12 ± 8.828e−13
0.004
0.002
0
−0.002
−0.004
−0.006
pull
Entries 93
Mean 37.29
Std Dev 37.01
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.0751
Std Dev 0.9263
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

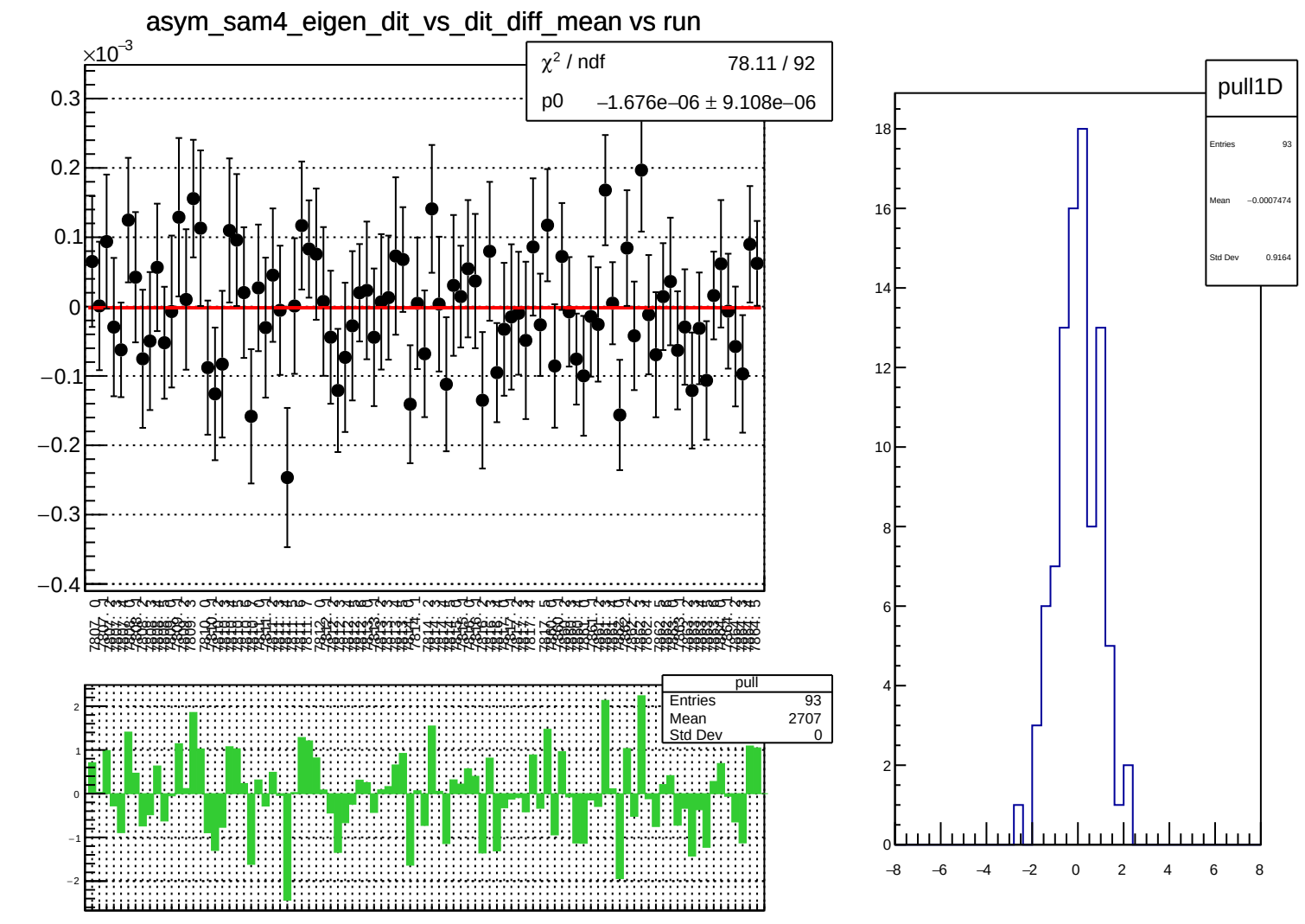

asym_sam4_reg_vs_cor_diff_rms vs run
χ² / ndf 1.168e+06 / 92
p0 5.16e−10 ± 6.243e−13
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0

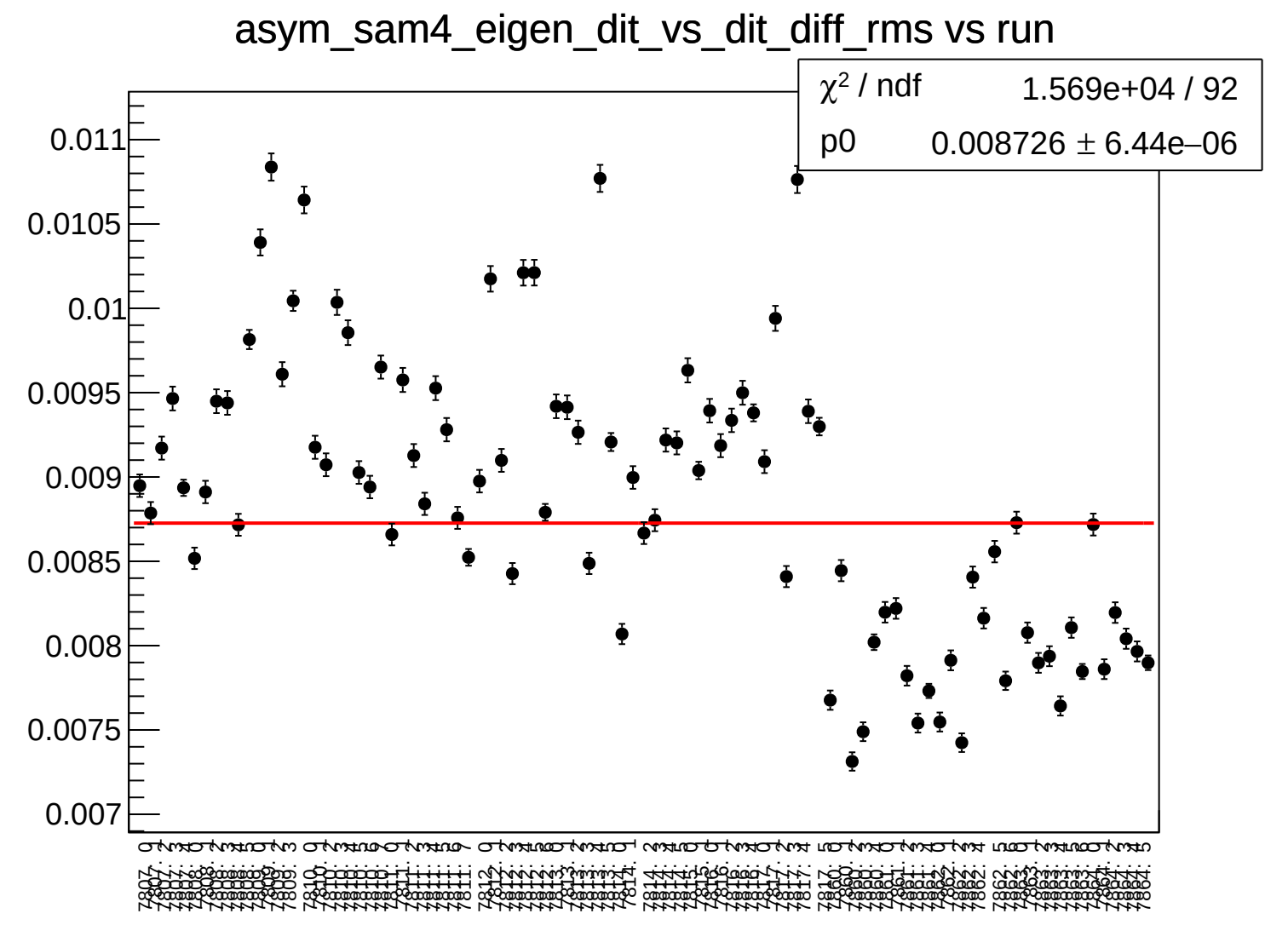

asym_sam4_dit_vs_cor_diff_mean vs run
χ² / ndf 93.69 / 92
p0 −0.00154 ± 0.179
pull
Entries 93
Mean −1818
Std Dev 0
pull1D
Entries 93
Mean −0.001855
Std Dev 1.004

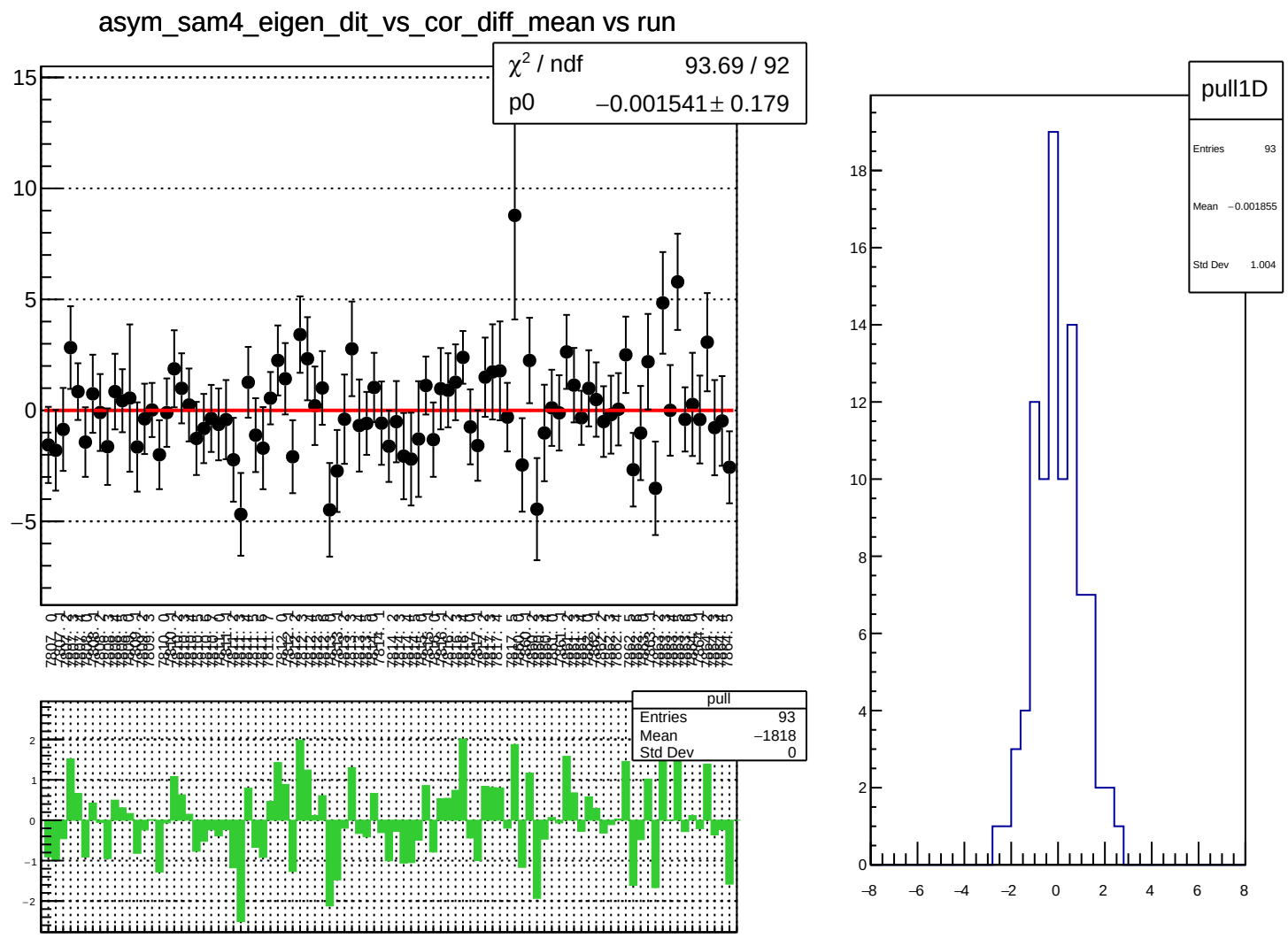

asym_sam4_dit_vs_cor_diff_rms vs run
χ² / ndf 3.854e+04 / 92
p0 170.5 ± 0.1266
450
400
350
300
250
200
150

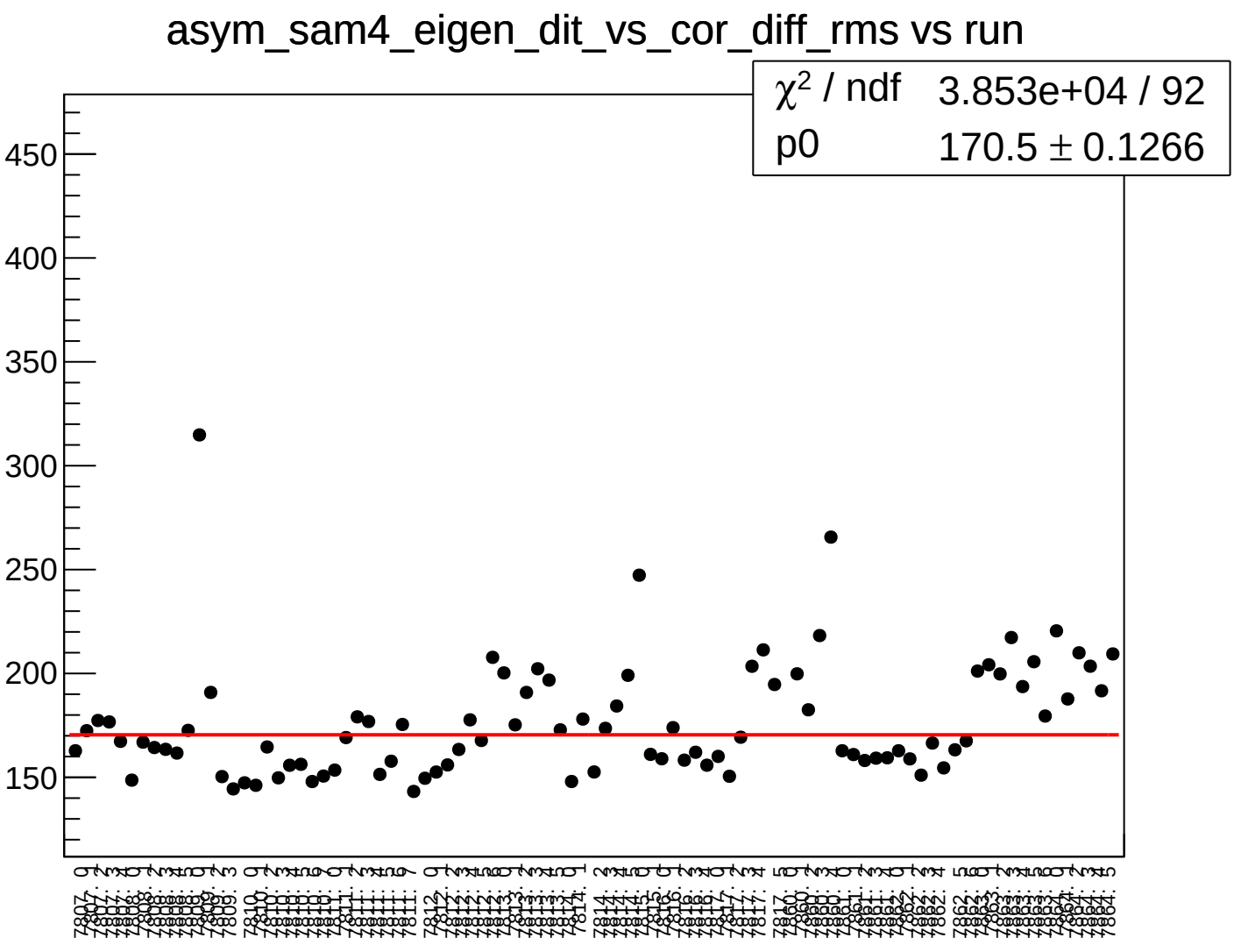

asym_sam4_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.69 / 92
p0 −0.00154 ± 0.179
15
10
5
0
−5
pull
Entries 93
Mean −1818
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.001855
Std Dev 1.004
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

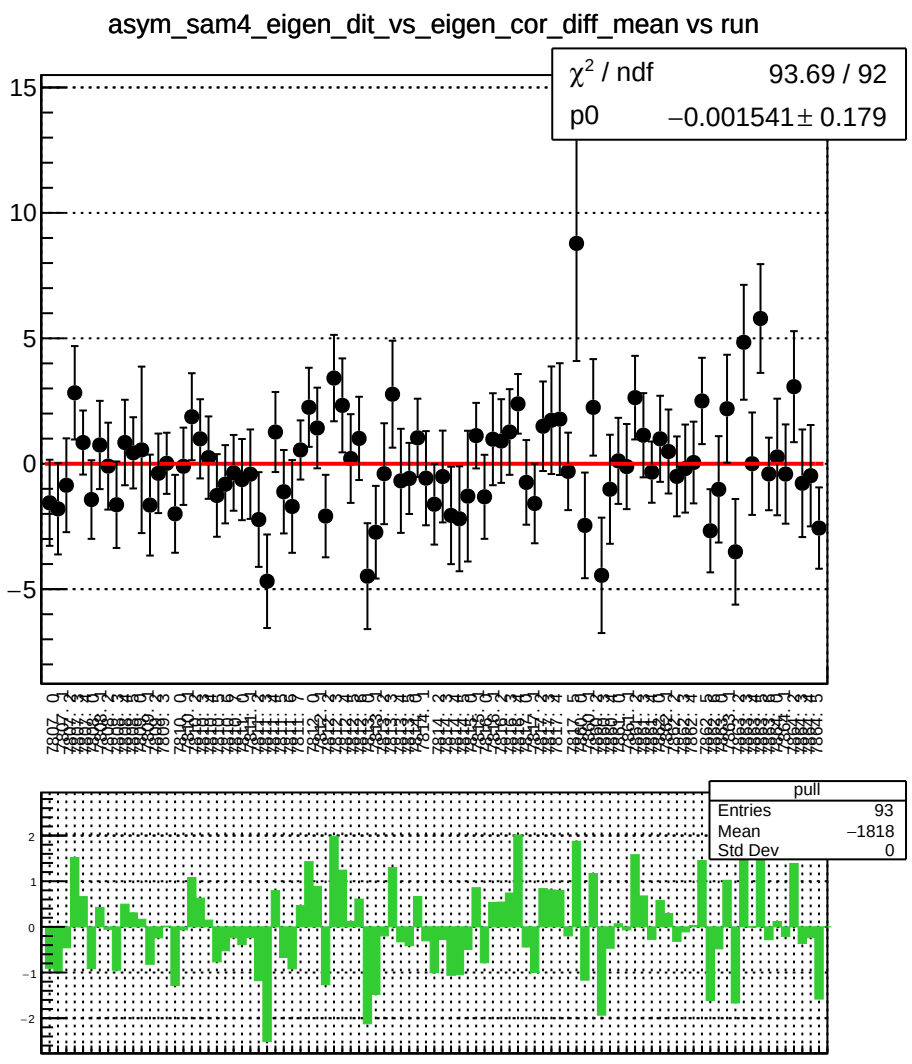

asym_sam4_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.854e+04 / 92
p0 170.5 ± 0.1266
450
400
350
300
250
200
150

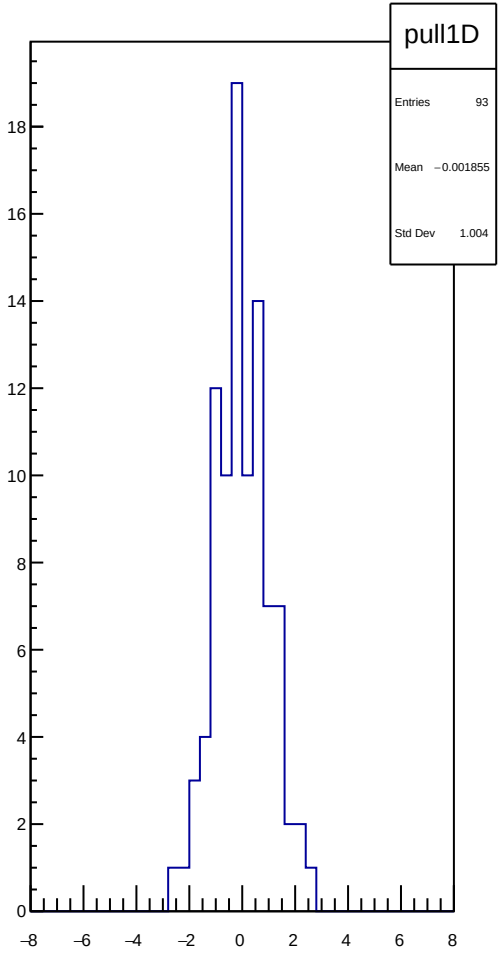

asym_sam4_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 78.11 / 92
p0 −1.676e−06 ± 9.108e−06
pull
Entries 93
Mean 2707
Std Dev 0
pull1D
Entries 93
Mean −0.0007474
Std Dev 0.9164

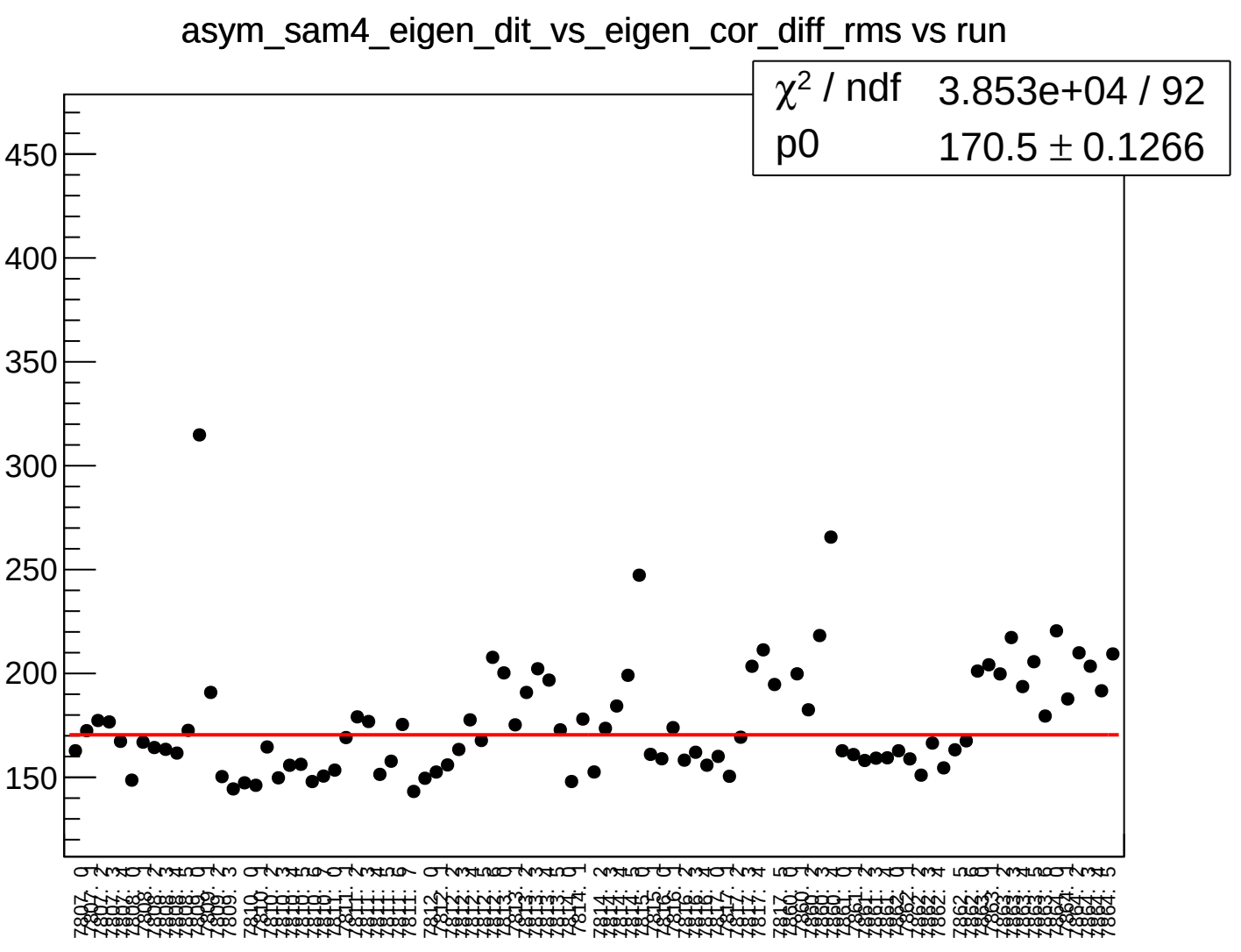

asym_sam4_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.569e+04 / 92
p0 0.008726 ± 6.44e–06
0.011
0.0105
0.01
0.0095
0.009
0.0085
0.008
0.0075
0.007

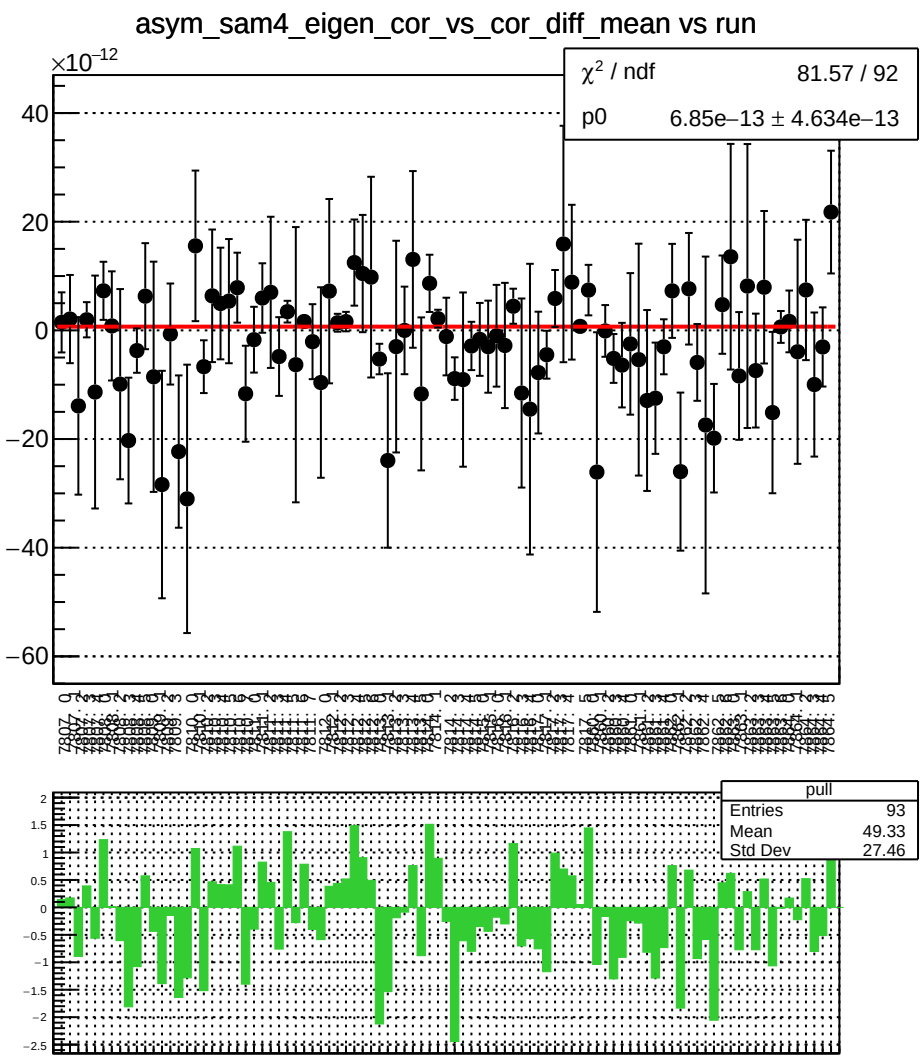

asym_sam4_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.69 / 92
p0 −0.001541 ± 0.179
pull
Entries 93
Mean −1818
Std Dev 0
pull1D
Entries 93
Mean −0.001855
Std Dev 1.004

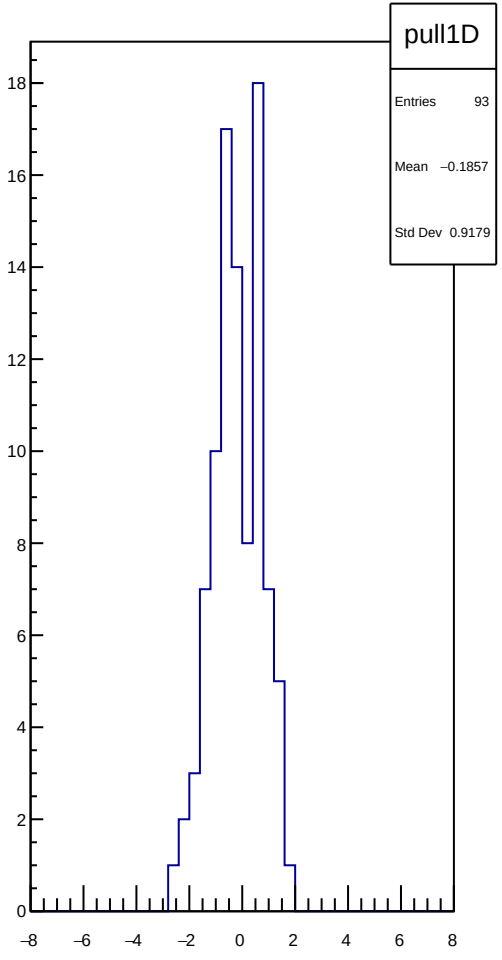

asym_sam4_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.853e+04 / 92
p0 170.5 ± 0.1266
450
400
350
300
250
200
150

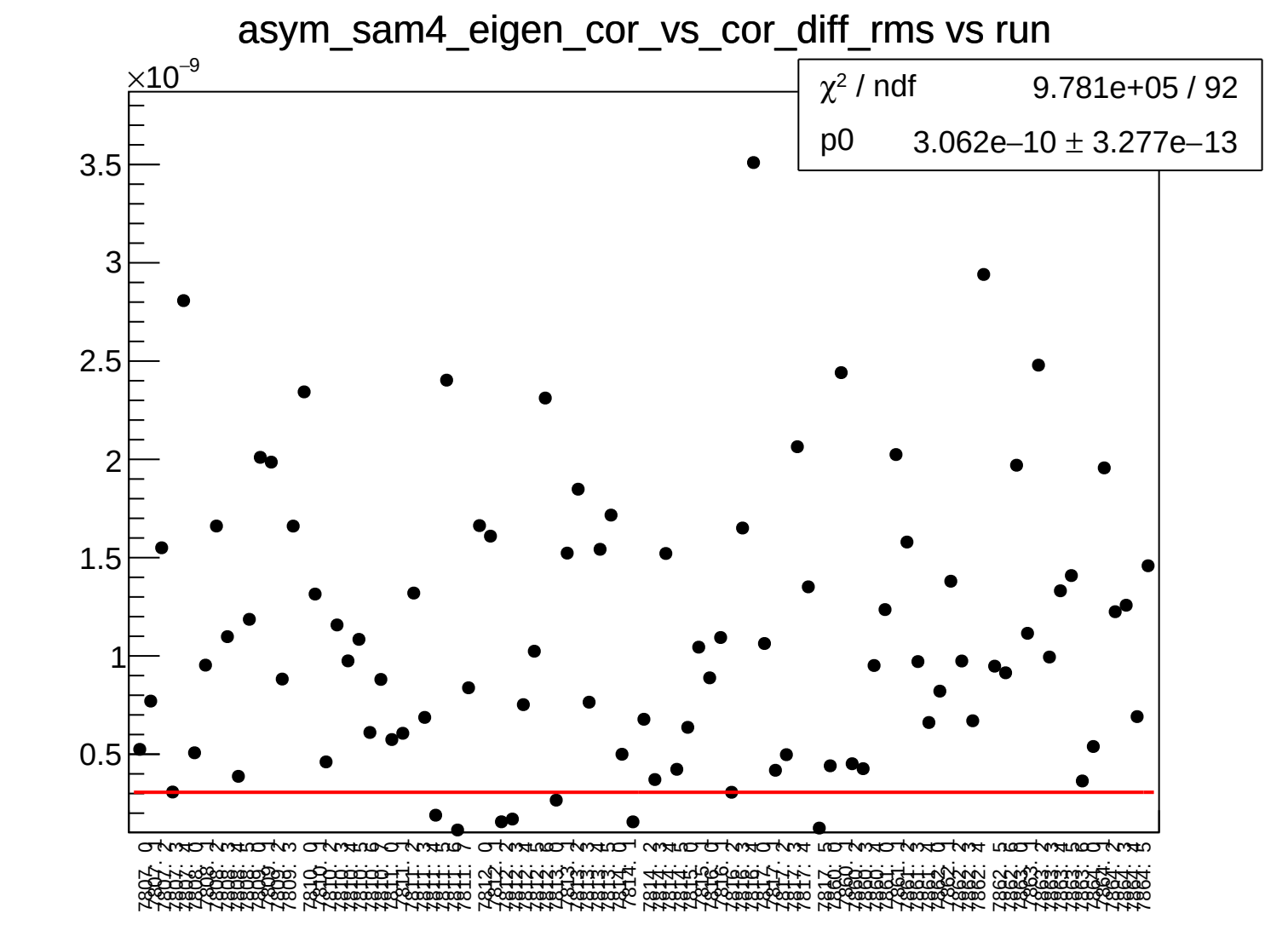

asym_sam4_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.69 / 92
p0 −0.001541 ± 0.179
15
10
5
0
−5
pull
Entries 93
Mean −1818
Std Dev 0
2
1
0
−1
−2

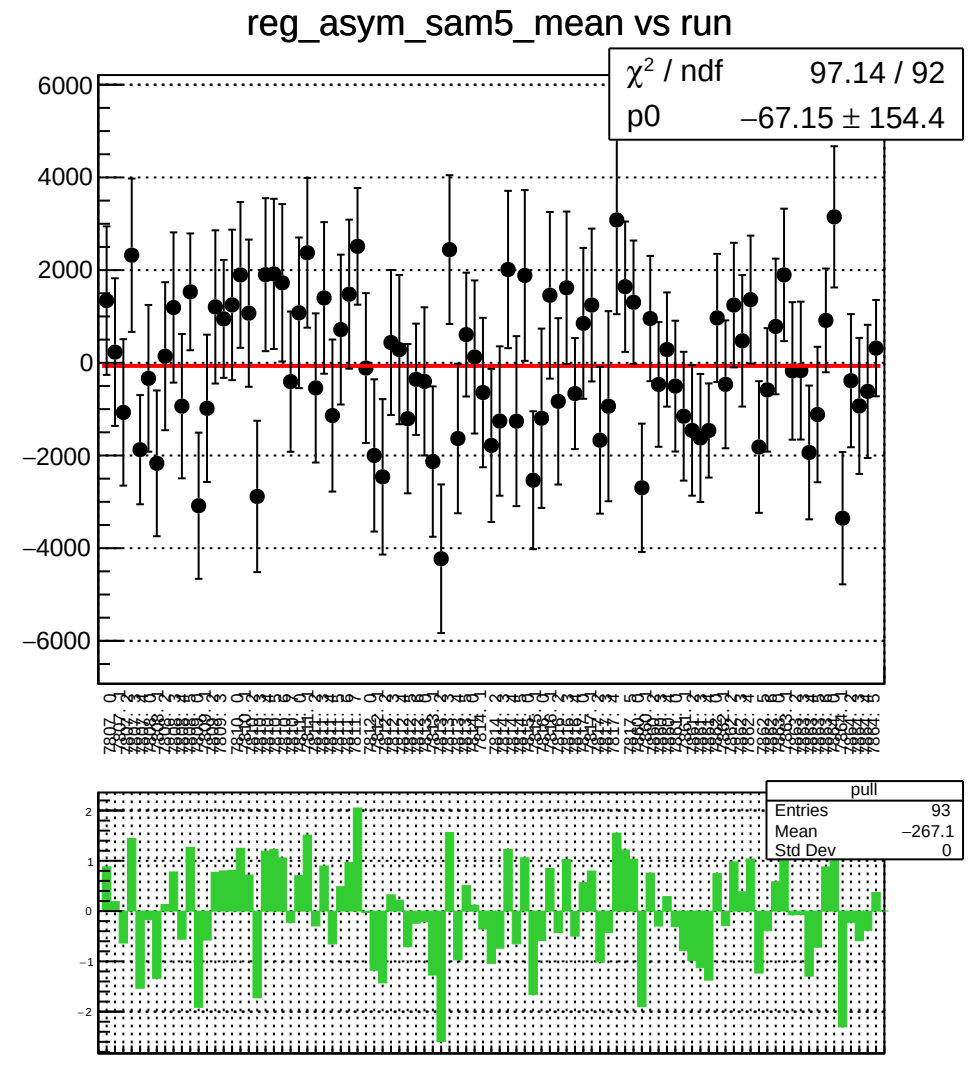

pull1D
Entries 93
Mean −0.001855
Std Dev 1.004
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

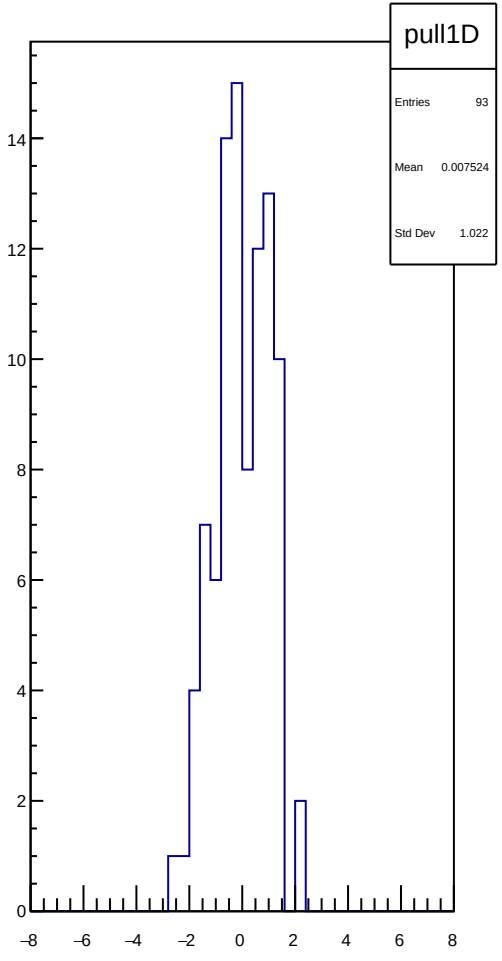

asym_sam4_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.853e+04 / 92
p0 170.5 ± 0.1266
450
400
350
300
250
200
150

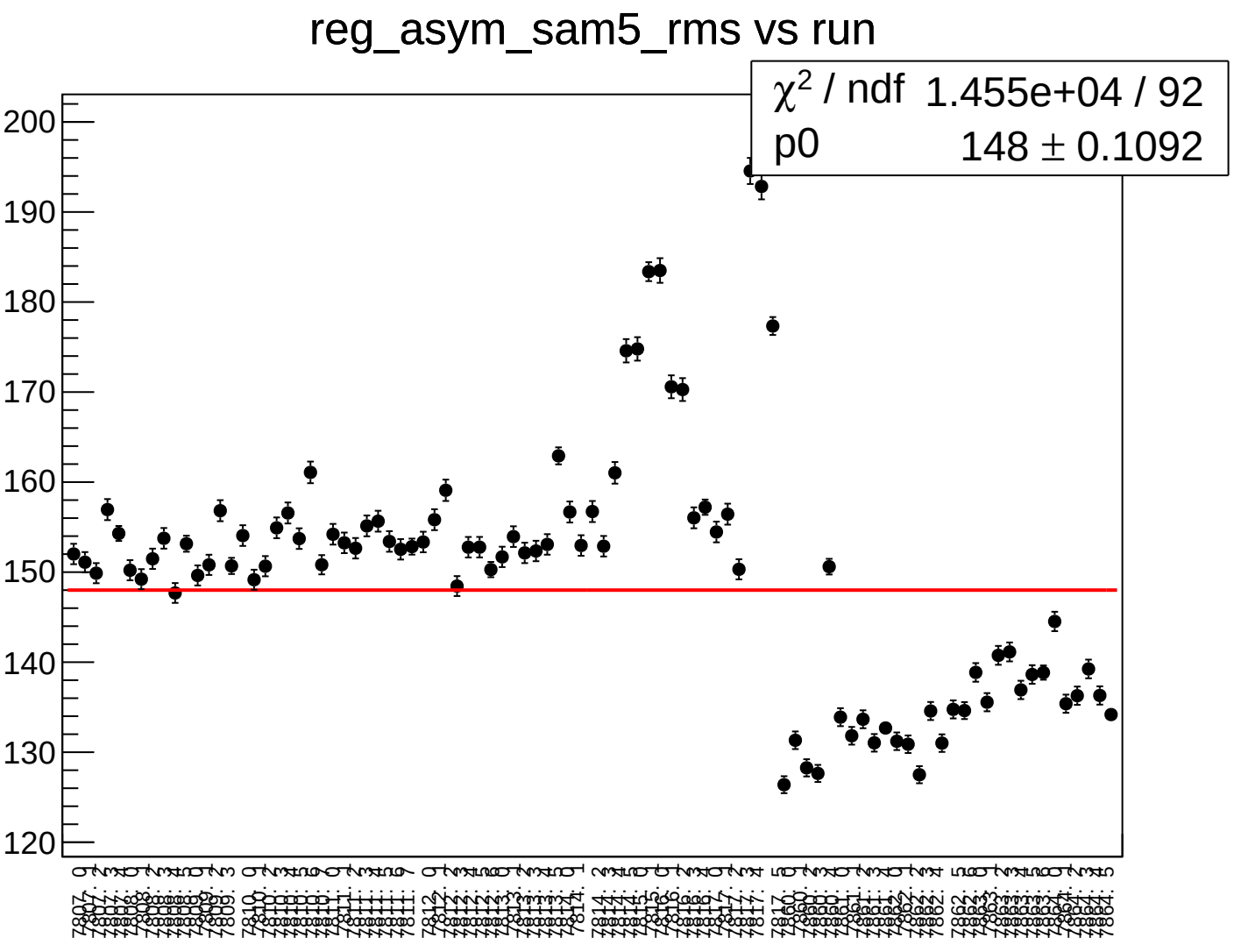

asym_sam4_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.57 / 92
p0 6.85e−13 ± 4.634e−13
pull
Entries 93
Mean 49.33
Std Dev 27.46

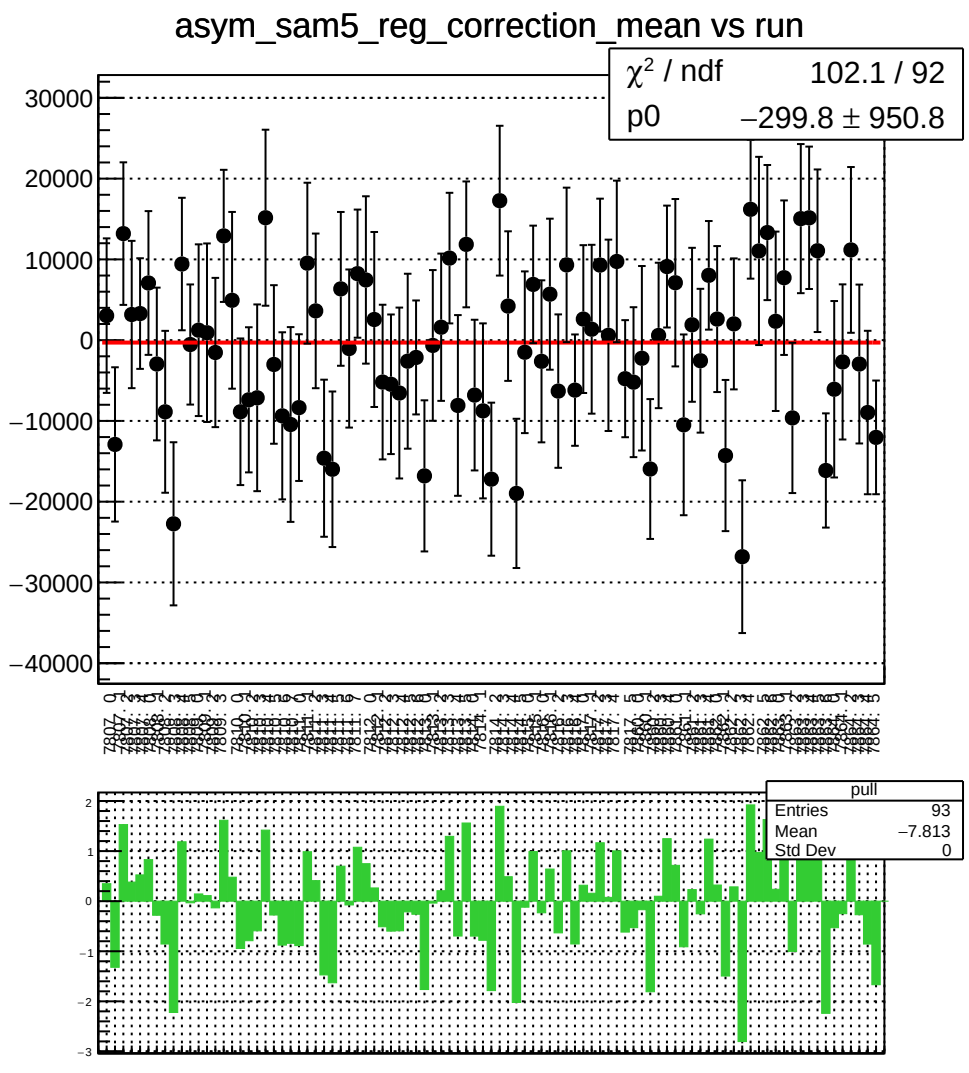

pull1D
Entries 93
Mean −0.1857
Std Dev 0.9179

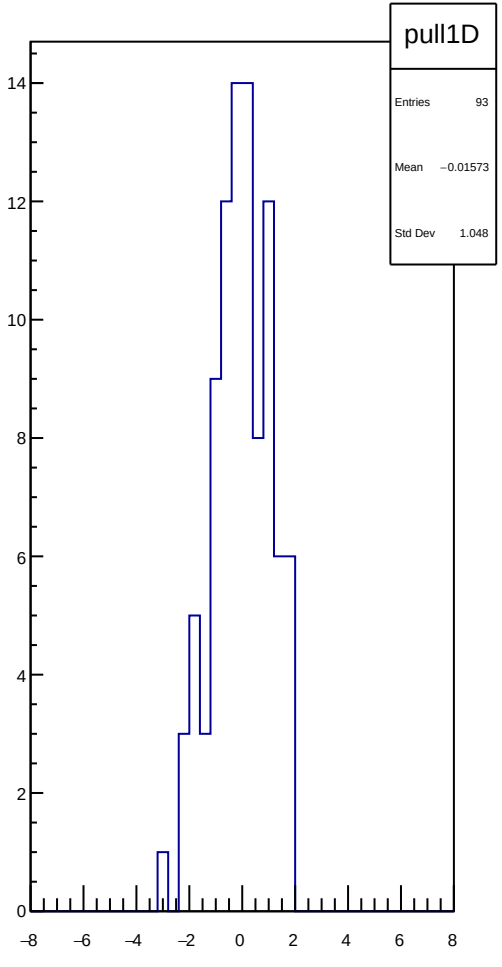

asym_sam4_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.781e+05 / 92
p0 3.062e−10 ± 3.277e−13
3.5
3
2.5
2
1.5
1
0.5

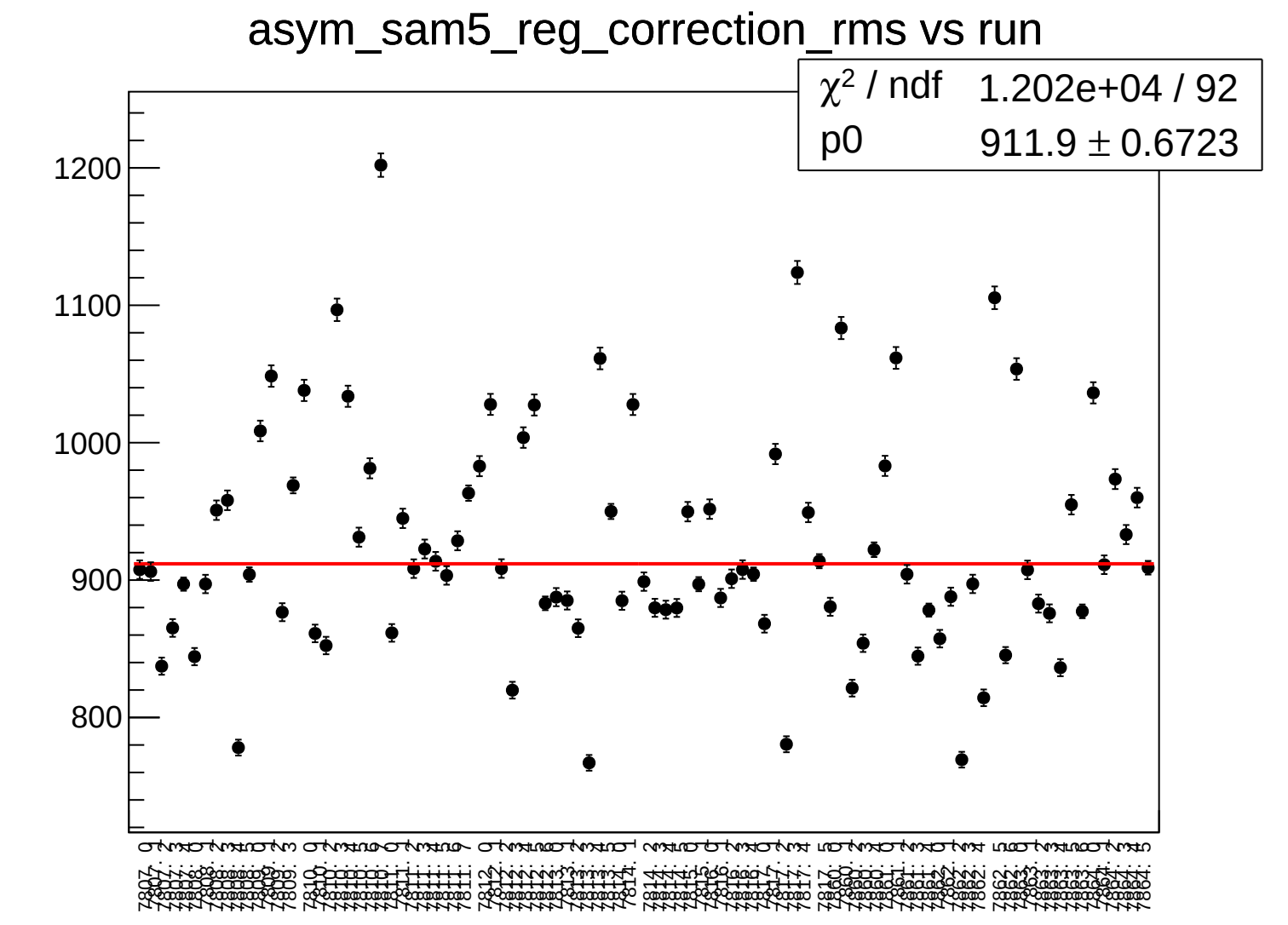

reg_asym_sam5_mean vs run
χ² / ndf 97.14 / 92
p0 −67.15 ± 154.4
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean −267.1
Std Dev 0
2
1
0
−1
−2

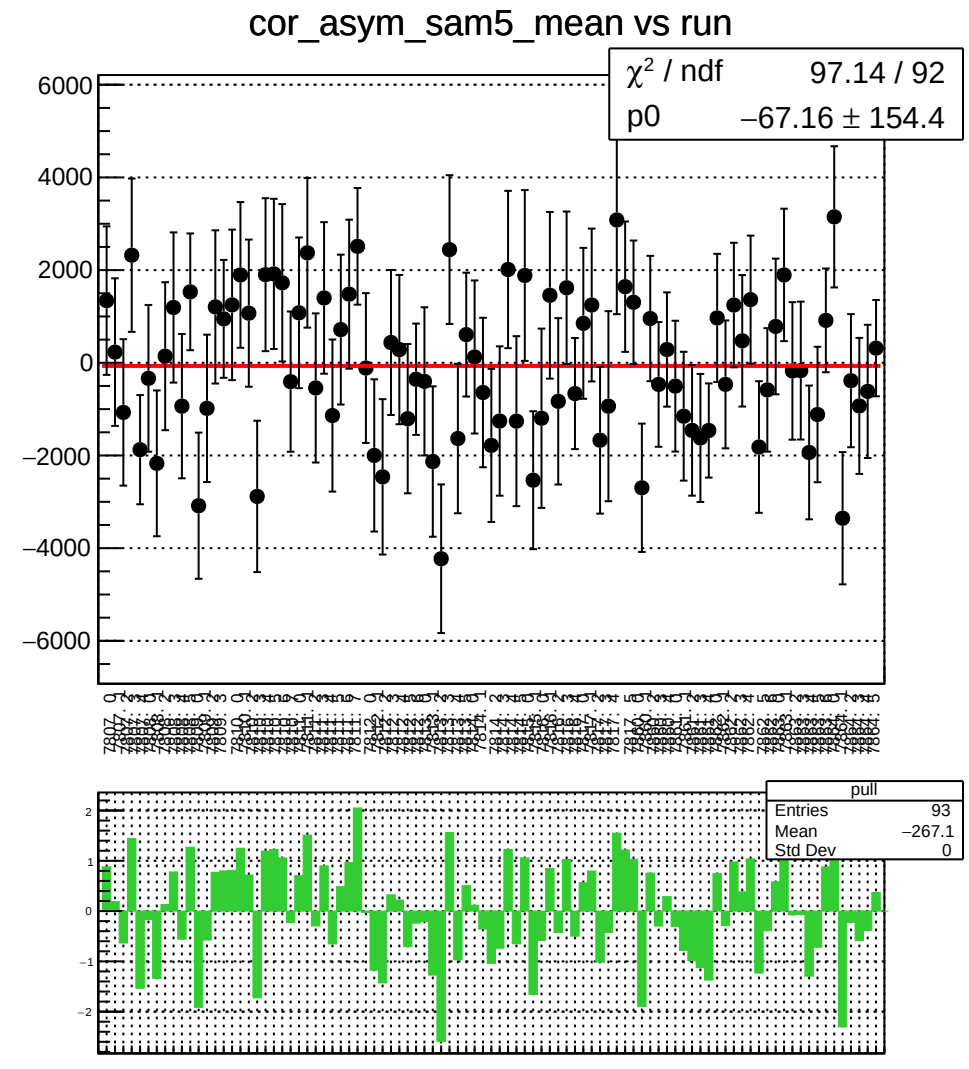

pull1D
Entries 93
Mean 0.007524
Std Dev 1.022
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

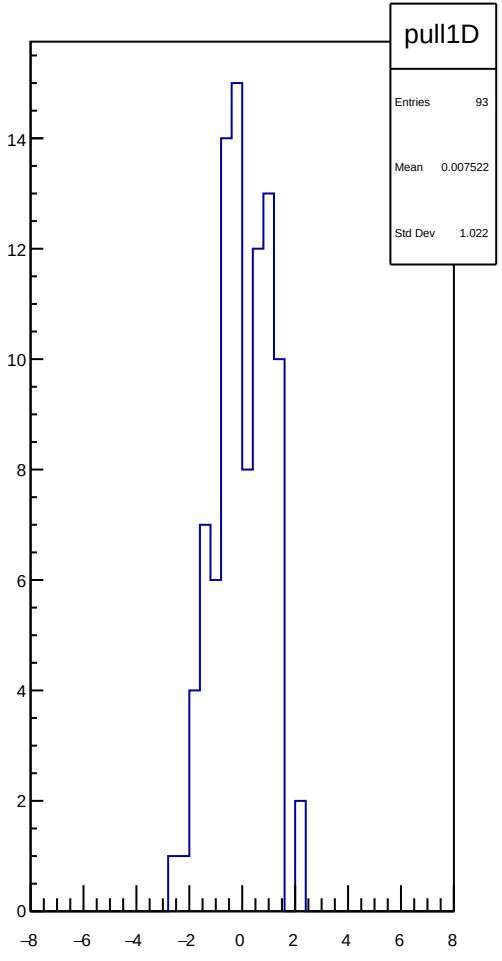

reg_asym_sam5_rms vs run
χ² / ndf 1.455e+04 / 92
p0 148 ± 0.1092
200
190
180
170
160
150
140
130
120

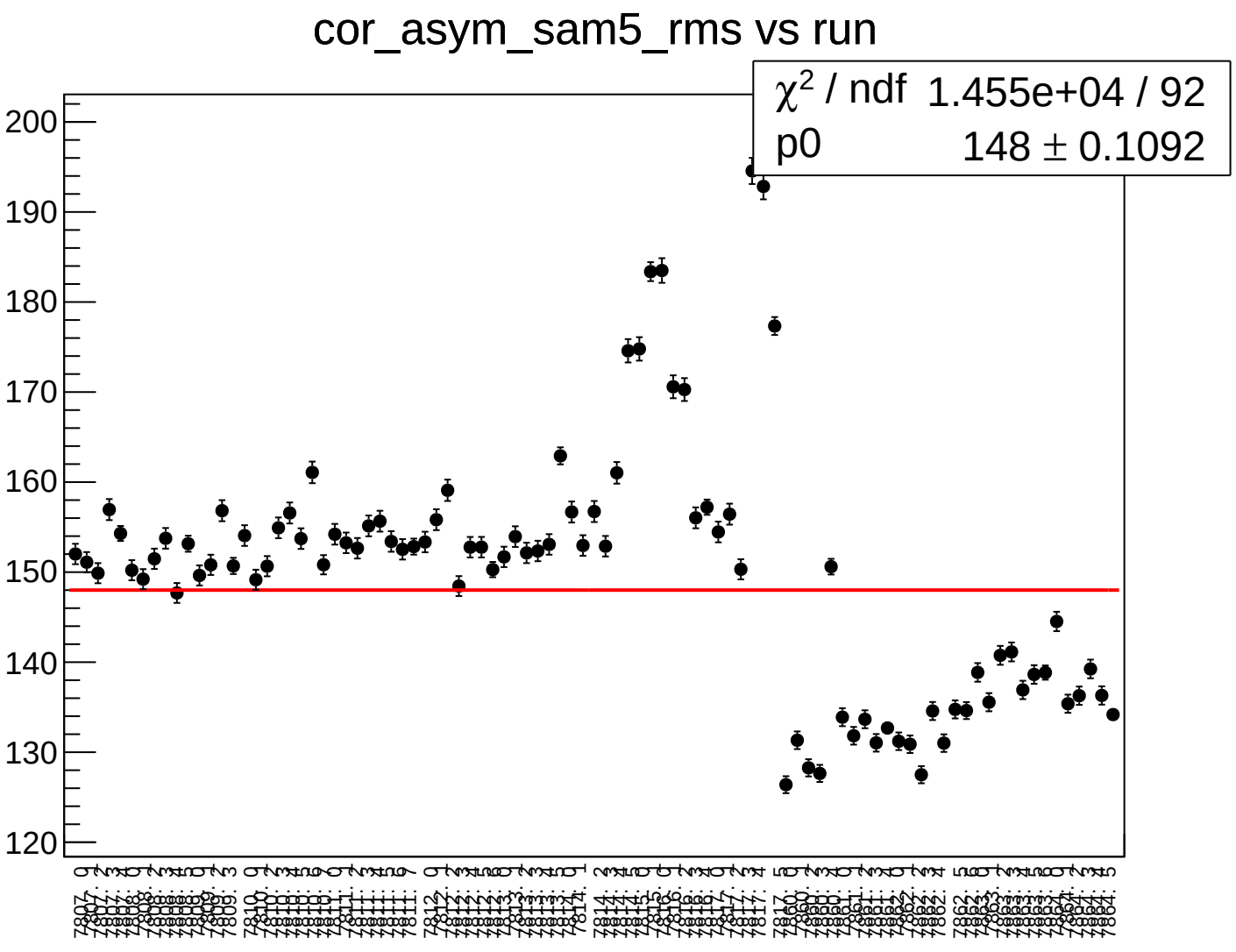

asym_sam5_reg_correction_mean vs run
χ² / ndf 102.1 / 92
p0 −299.8 ± 950.8
pull
Entries 93
Mean −7.813
Std Dev 0

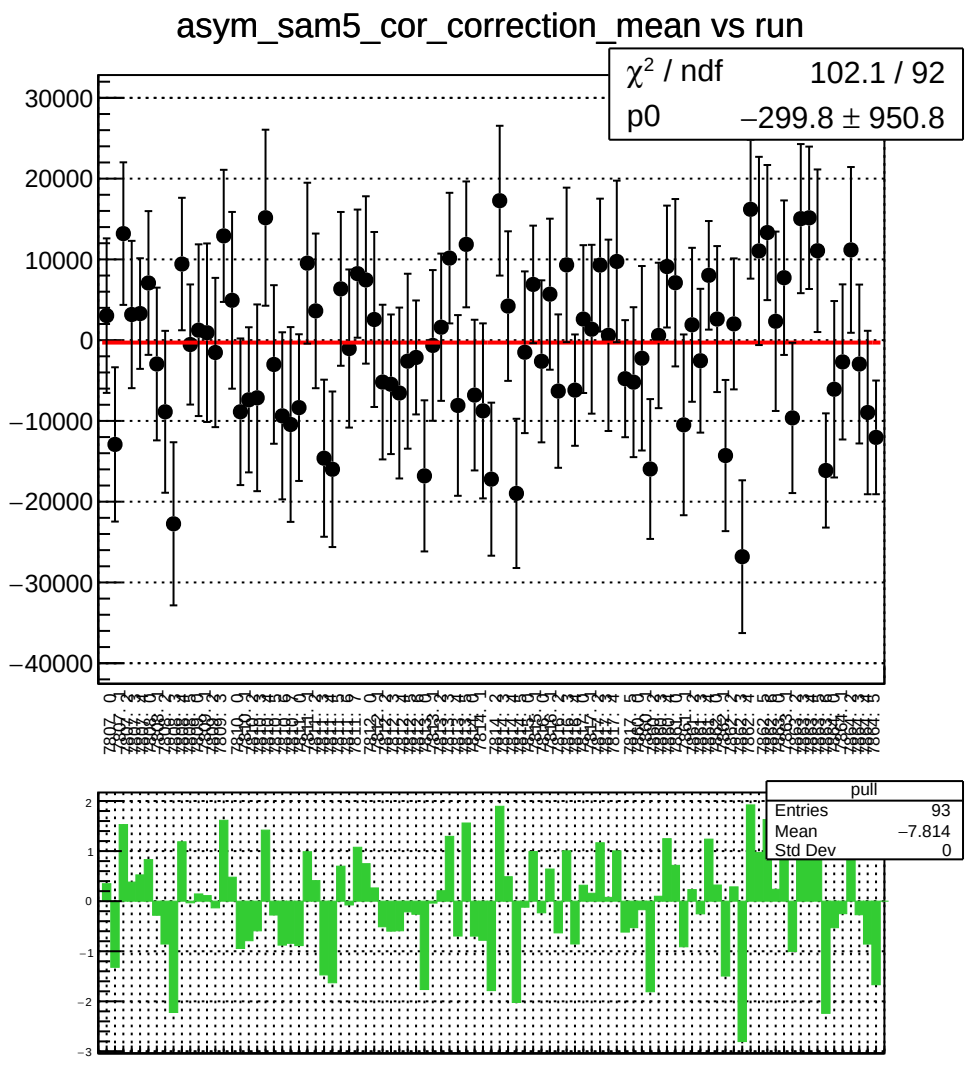

pull1D
Entries 93
Mean −0.01573
Std Dev 1.048

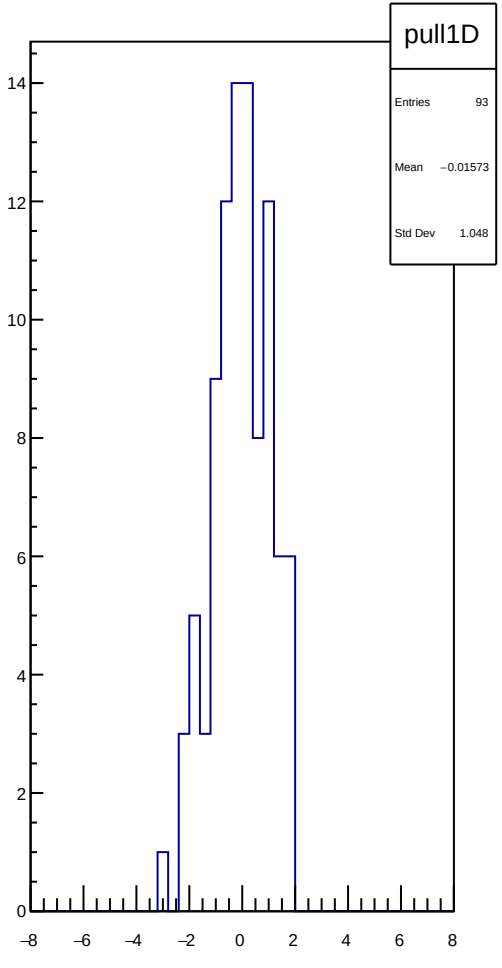

asym_sam5_reg_correction_rms vs run
χ² / ndf 1.202e+04 / 92
p0 911.9 ± 0.6723
1200
1100
1000
900
800

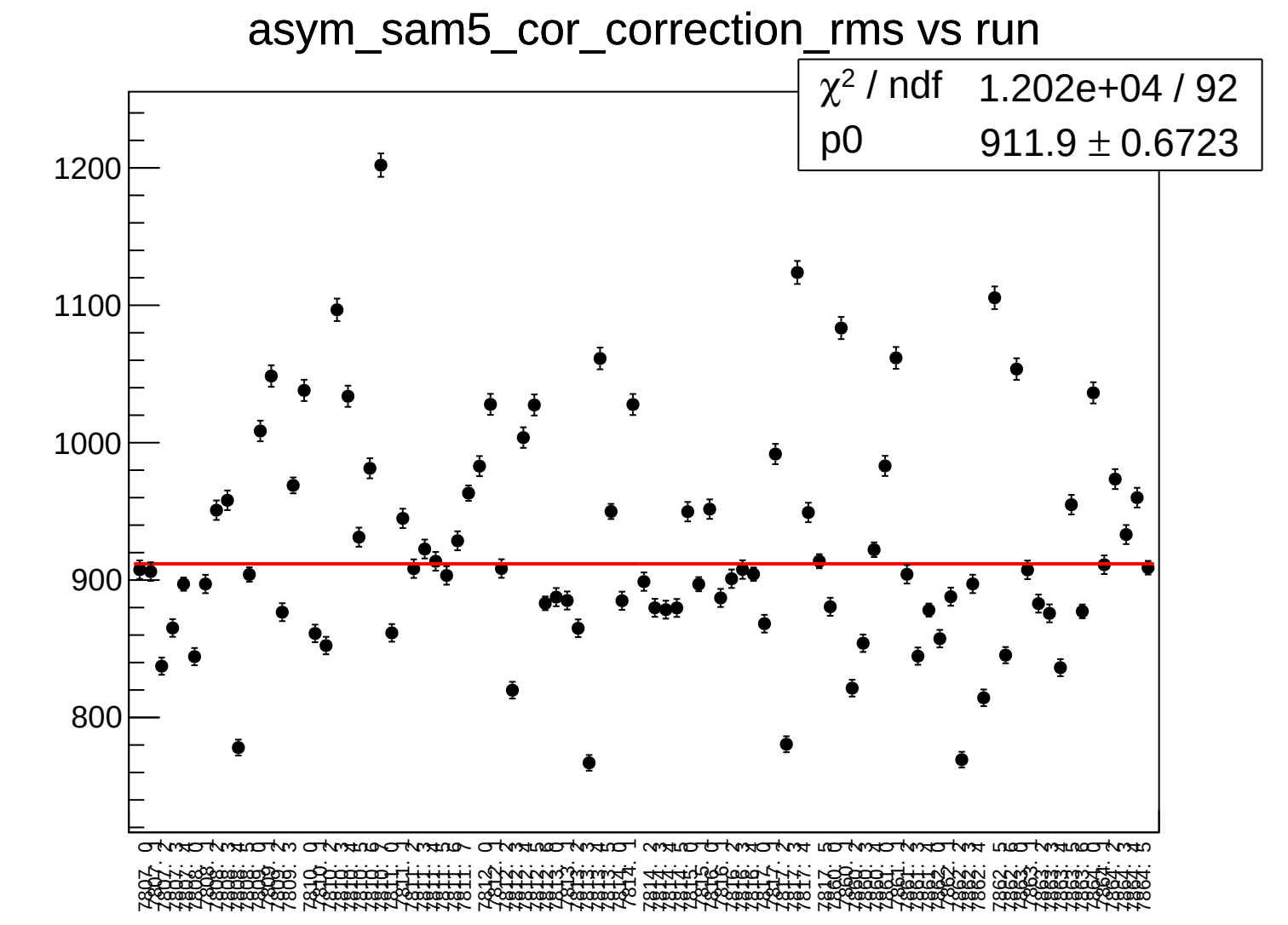

cor_asym_sam5_mean vs run
χ² / ndf 97.14 / 92
p0 −67.16 ± 154.4
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean −267.1
Std Dev 0
2
1
0
−1
−2

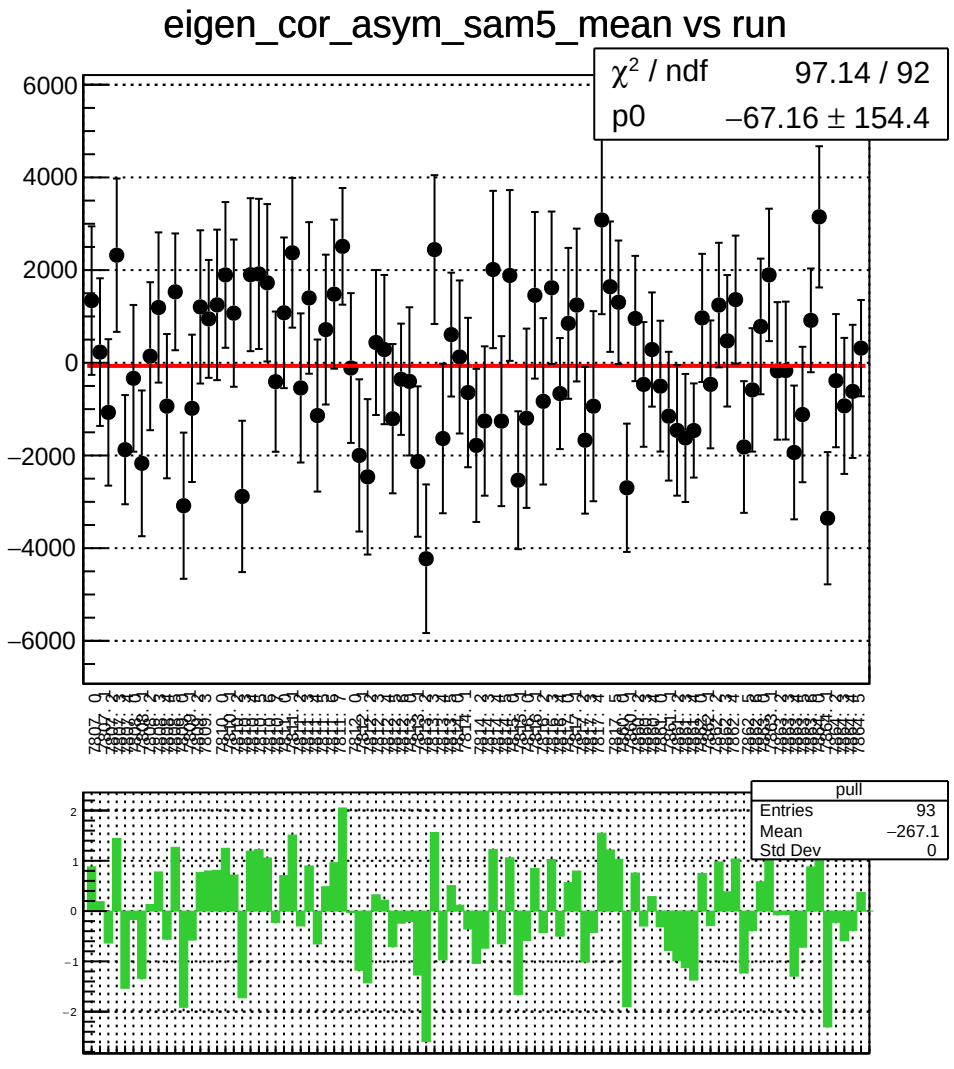

pull1D
Entries 93
Mean 0.007522
Std Dev 1.022
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

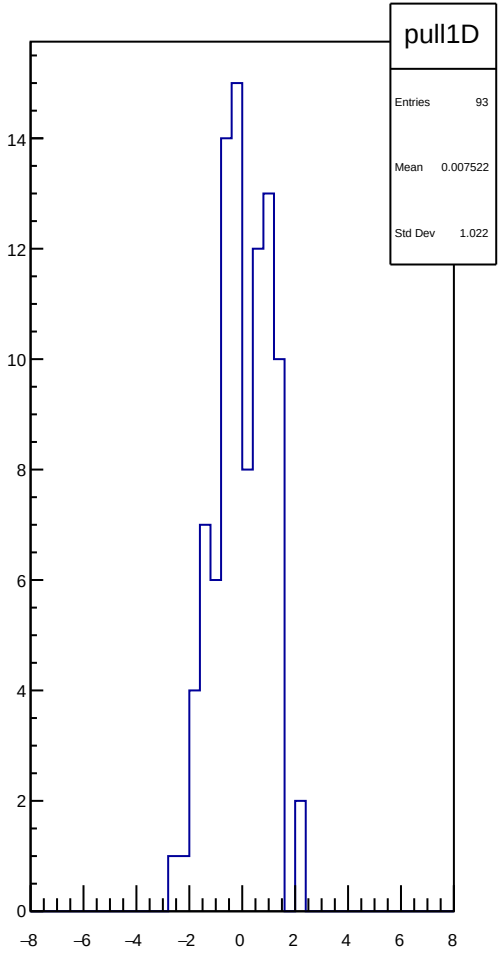

cor_asym_sam5_rms vs run
χ² / ndf 1.455e+04 / 92
p0 148 ± 0.1092
200
190
180
170
160
150
140
130
120

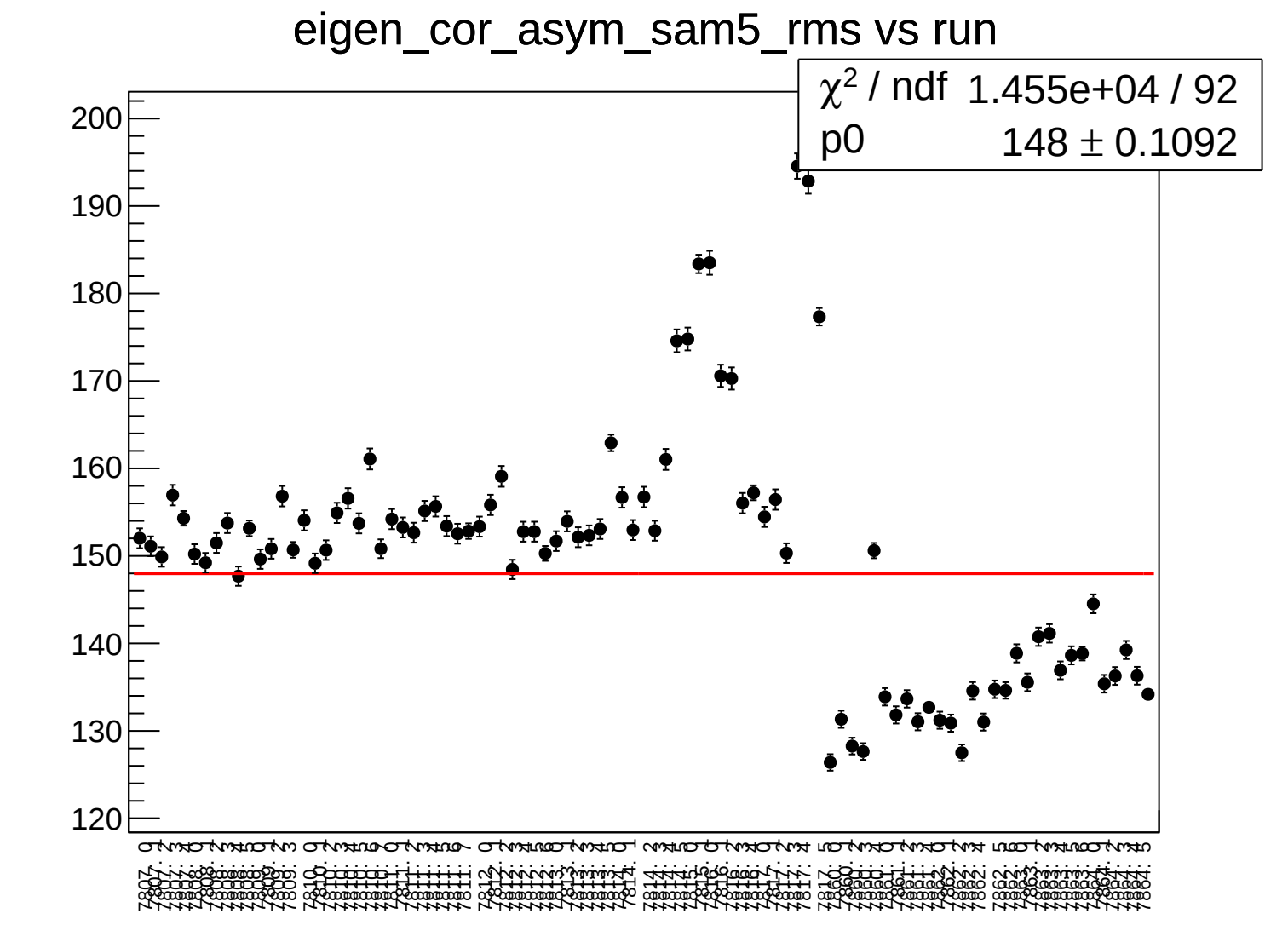

asym_sam5_cor_correction_mean vs run
χ² / ndf 102.1 / 92
p0 −299.8 ± 950.8
pull
Entries 93
Mean −7.814
Std Dev 0

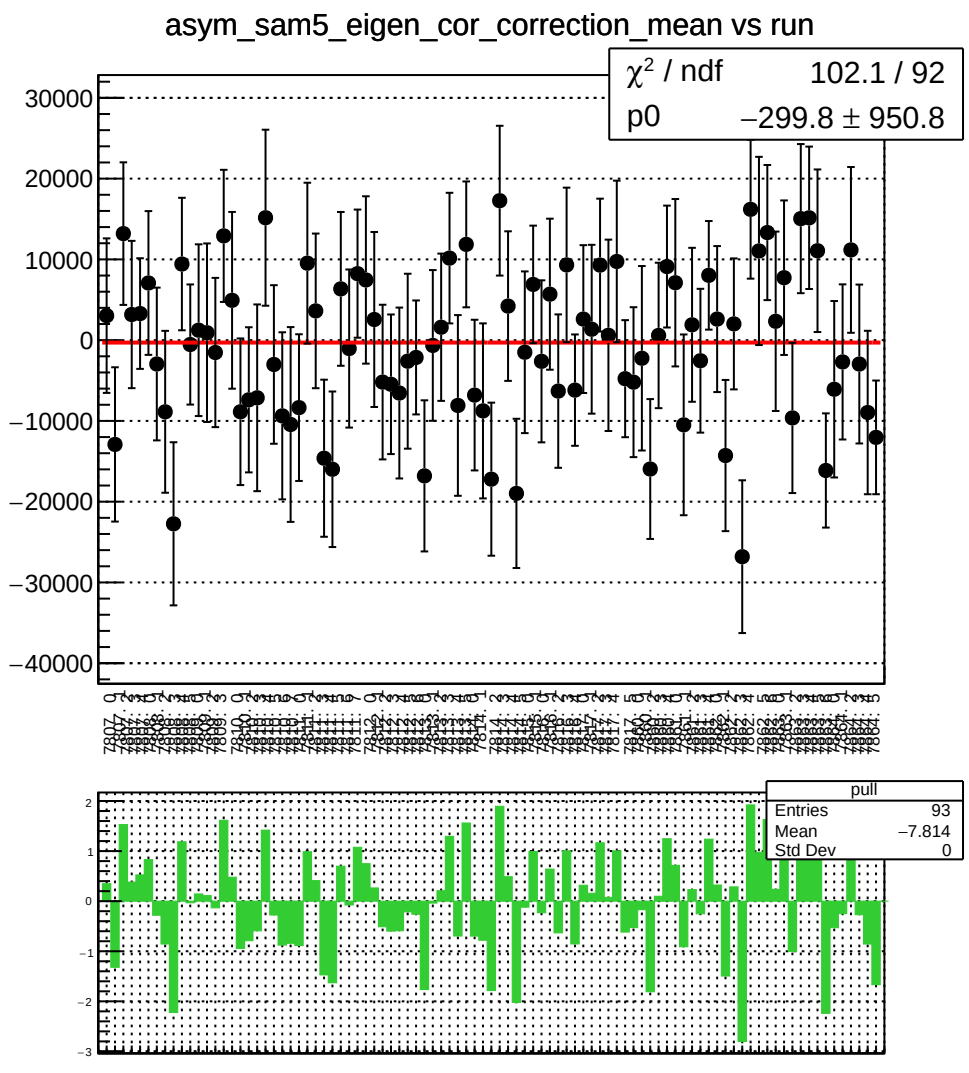

pull1D
Entries 93
Mean −0.01573
Std Dev 1.048

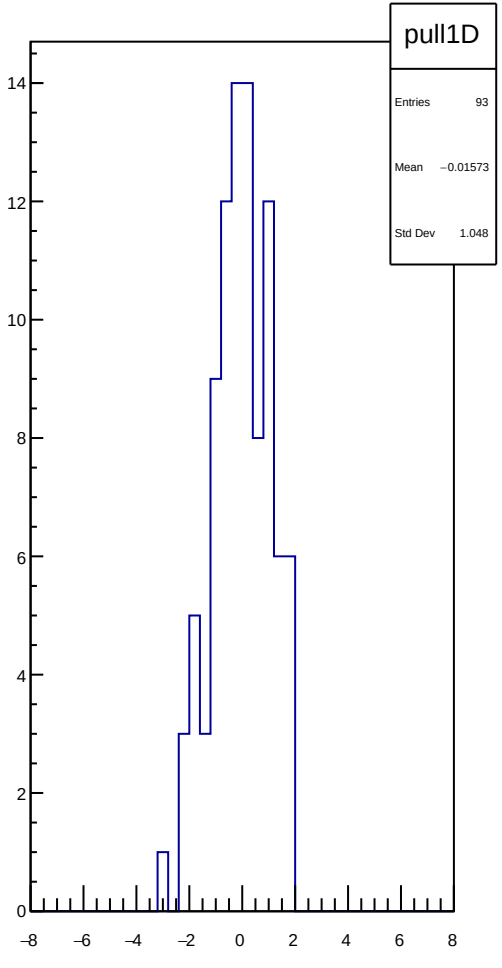

asym_sam5_cor_correction_rms vs run
χ² / ndf 1.202e+04 / 92
p0 911.9 ± 0.6723
1200
1100
1000
900
800

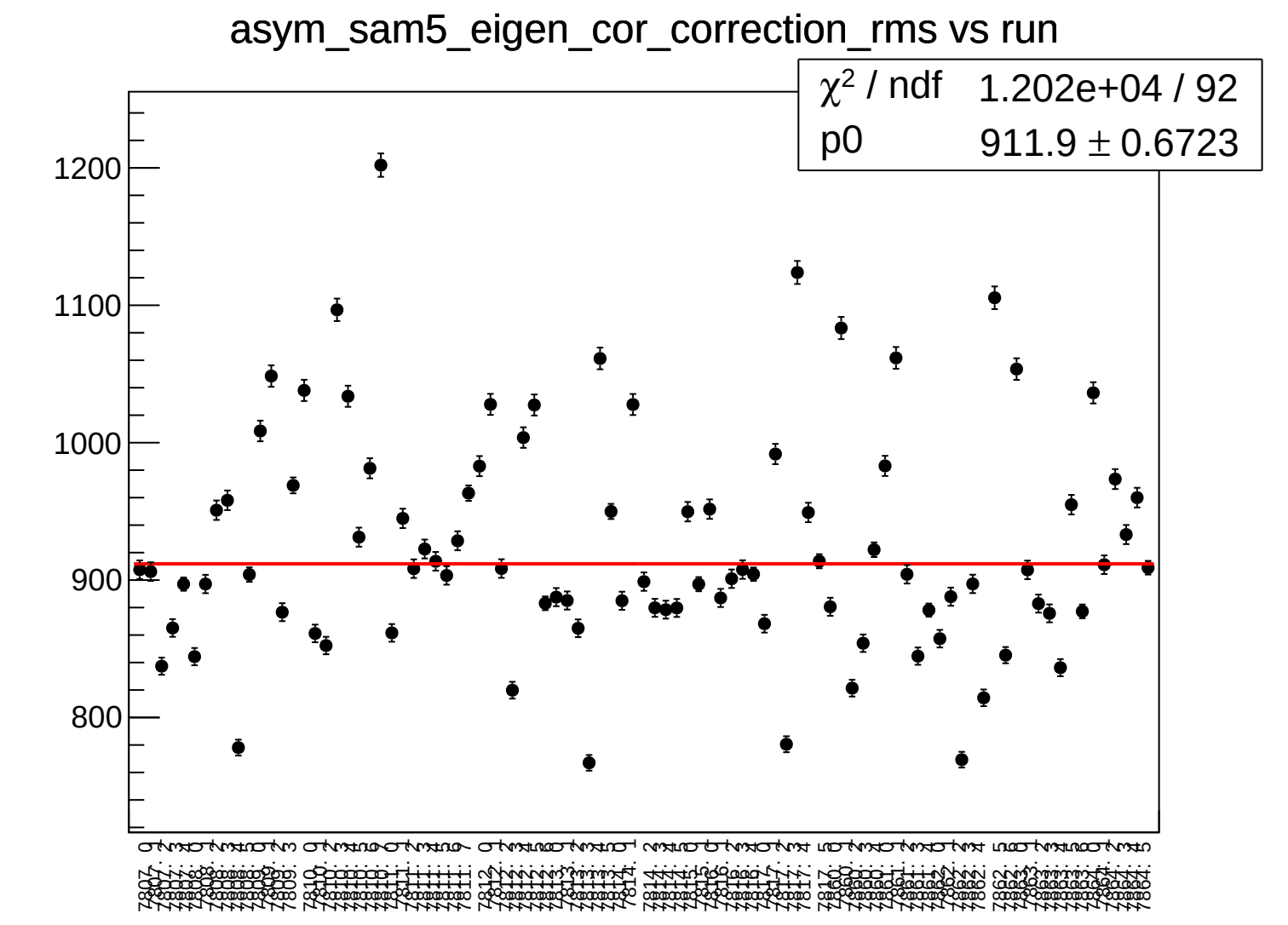

eigen_cor_asym_sam5_mean vs run
χ² / ndf 97.14 / 92
p0 −67.16 ± 154.4
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean −267.1
Std Dev 0
2
1
0
−1
−2

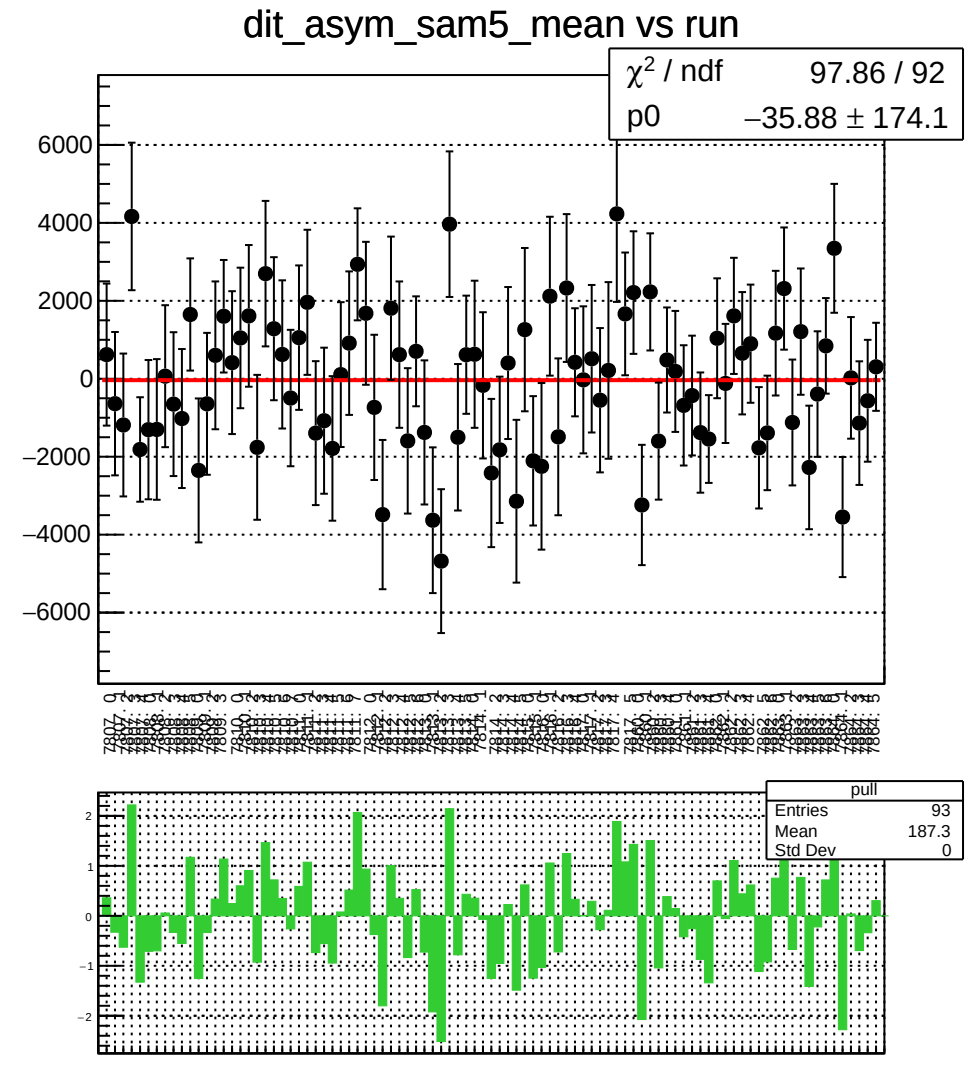

pull1D
Entries 93
Mean 0.007522
Std Dev 1.022
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

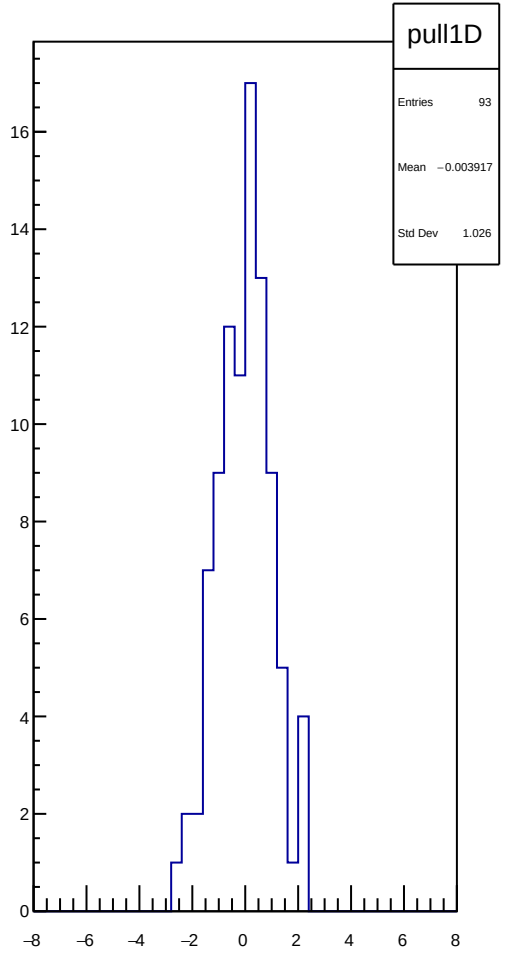

eigen_cor_asym_sam5_rms vs run
χ² / ndf 1.455e+04 / 92
p0 148 ± 0.1092
200
190
180
170
160
150
140
130
120

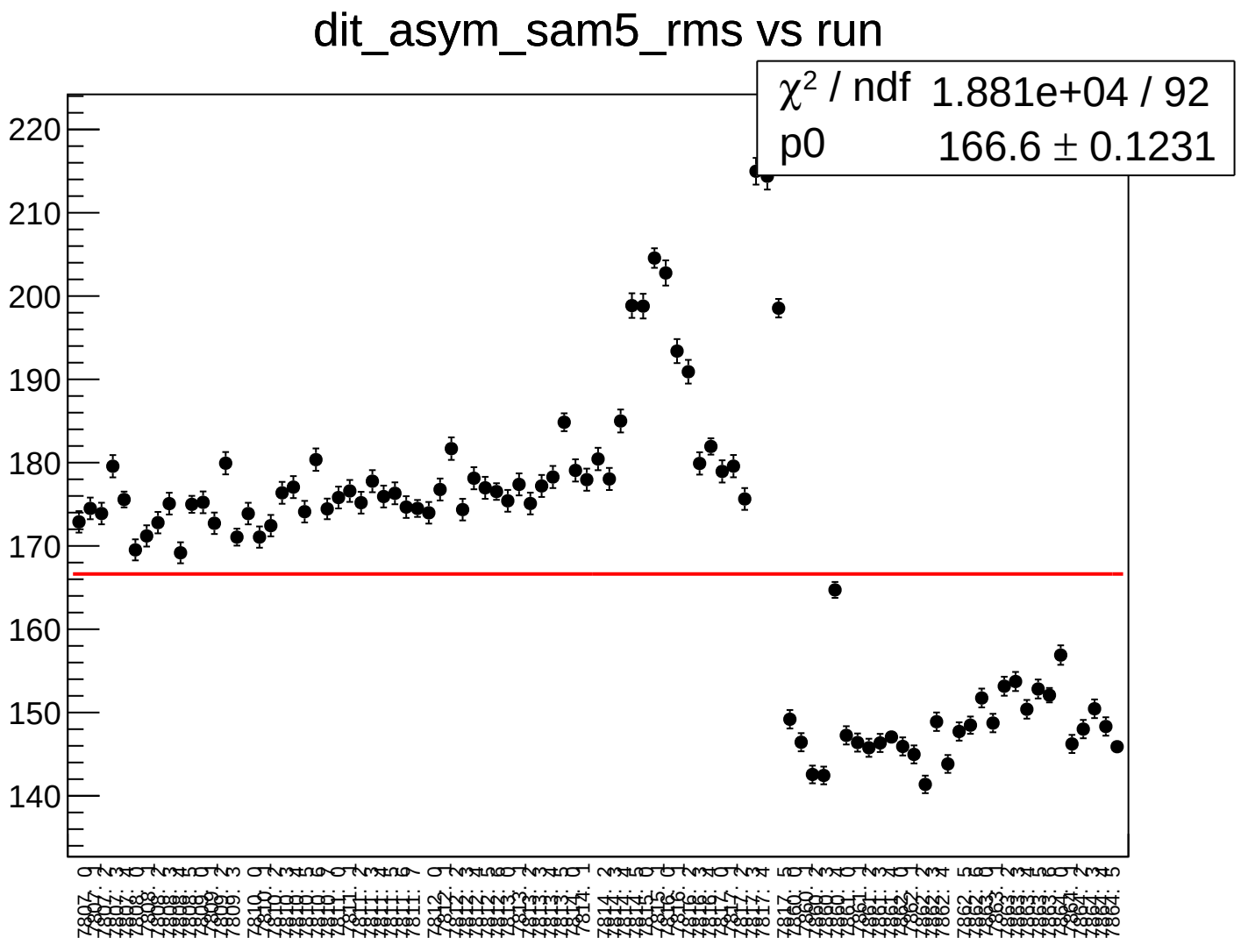

asym_sam5_eigen_cor_correction_mean vs run
χ² / ndf 102.1 / 92
p0 −299.8 ± 950.8
pull
Entries 93
Mean −7.814
Std Dev 0

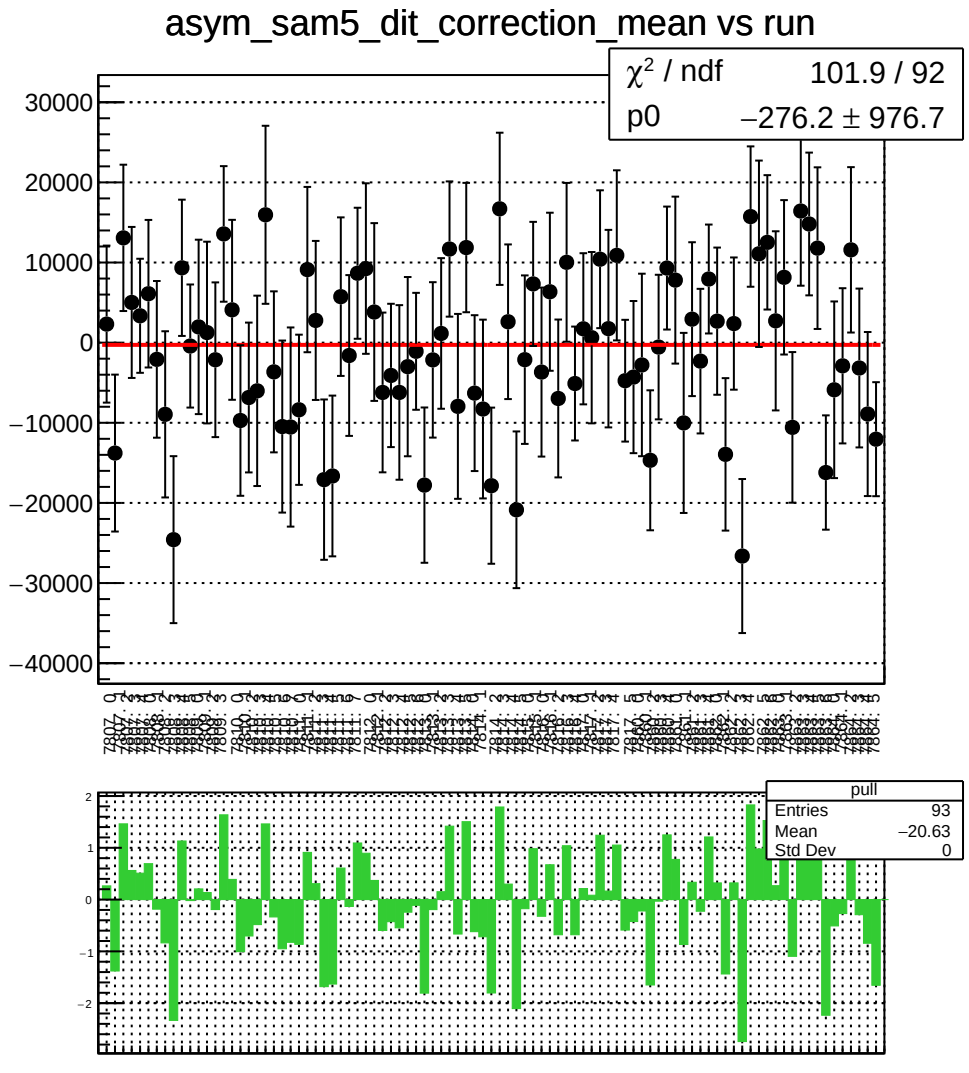

pull1D
Entries 93
Mean −0.01573
Std Dev 1.048

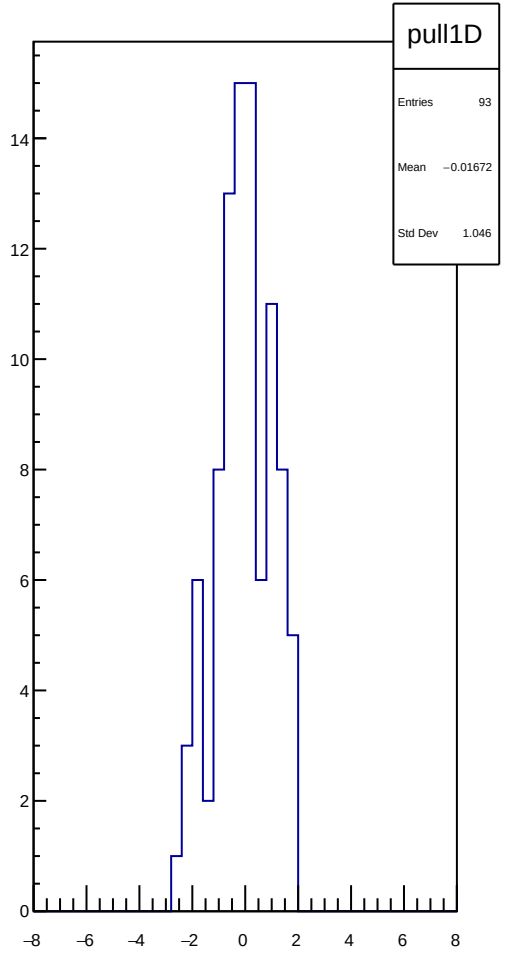

asym_sam5_eigen_cor_correction_rms vs run
χ² / ndf 1.202e+04 / 92
p0 911.9 ± 0.6723
1200
1100
1000
900
800

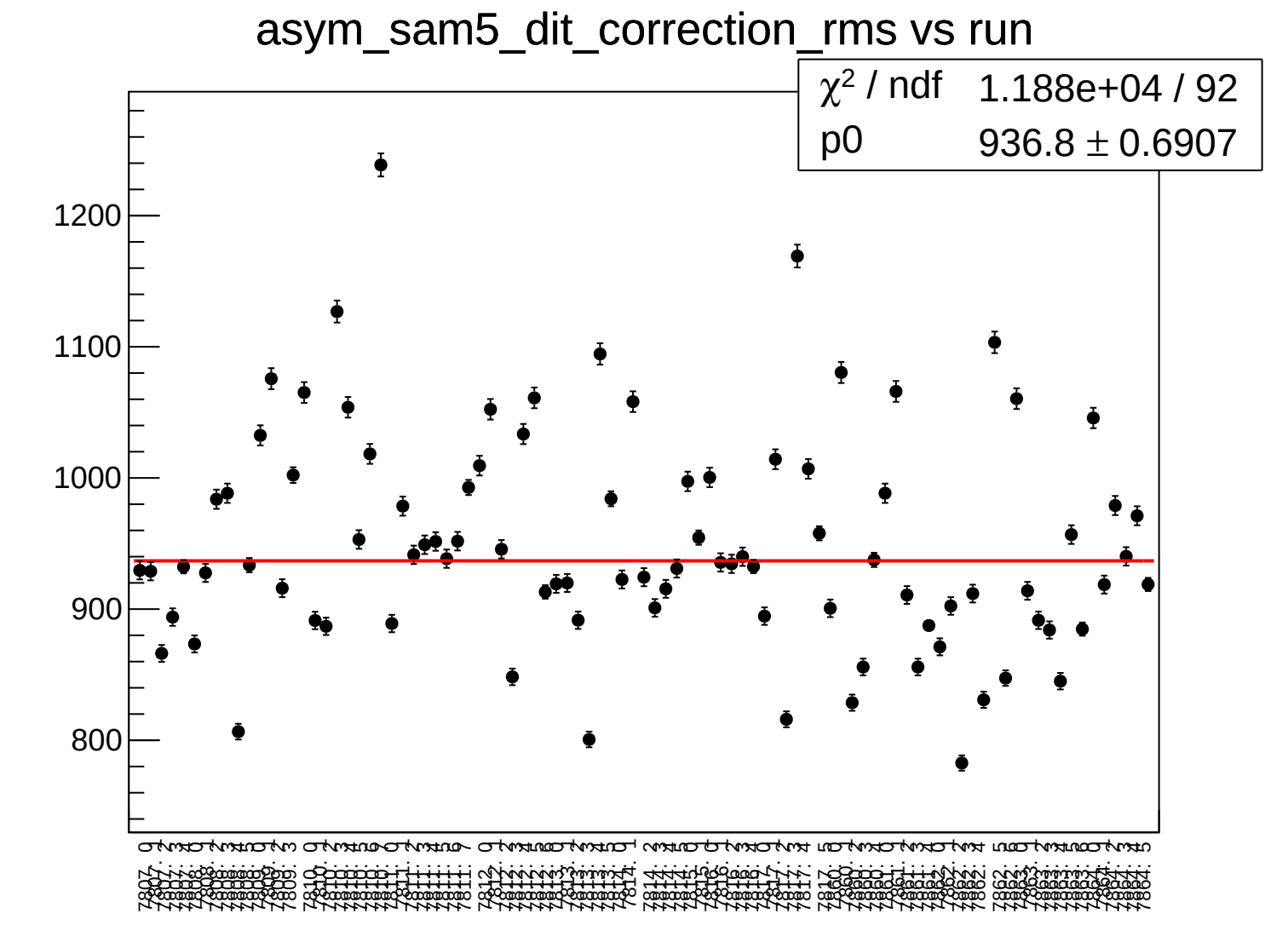

dit_asym_sam5_mean vs run
χ² / ndf 97.86 / 92
p0 −35.88 ± 174.1
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean 187.3
Std Dev 0
2
1
0
−1
−2

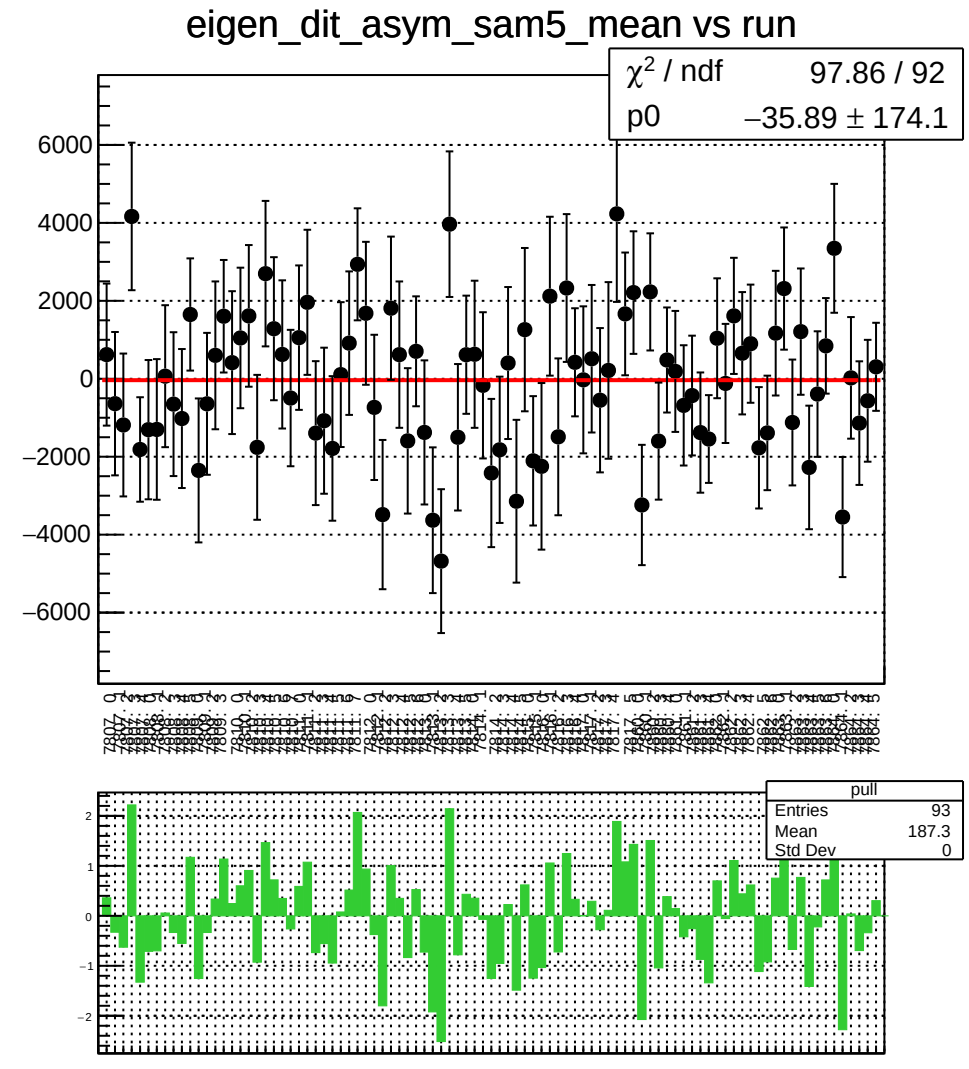

pull1D
Entries 93
Mean −0.003917
Std Dev 1.026
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

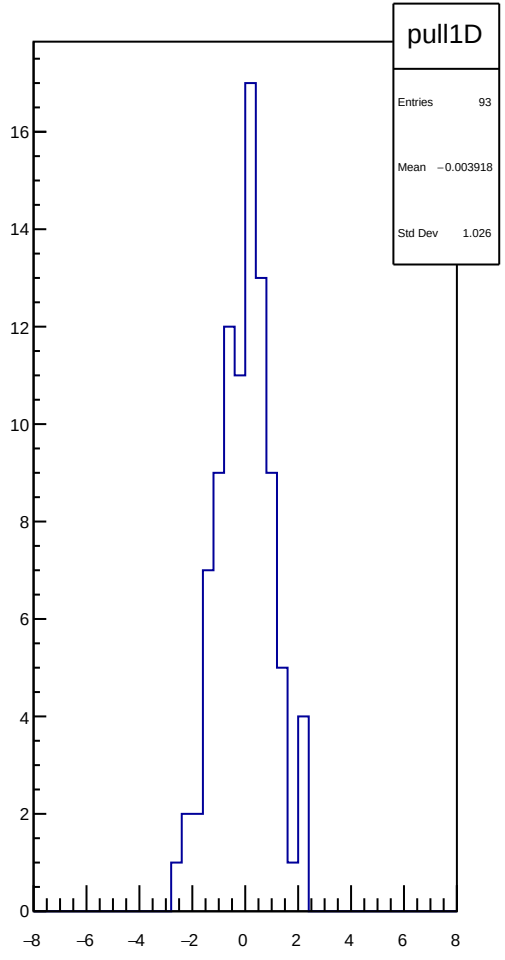

dit_asym_sam5_rms vs run
χ² / ndf 1.881e+04 / 92
p0 166.6 ± 0.1231
220
210
200
190
180
170
160
150
140

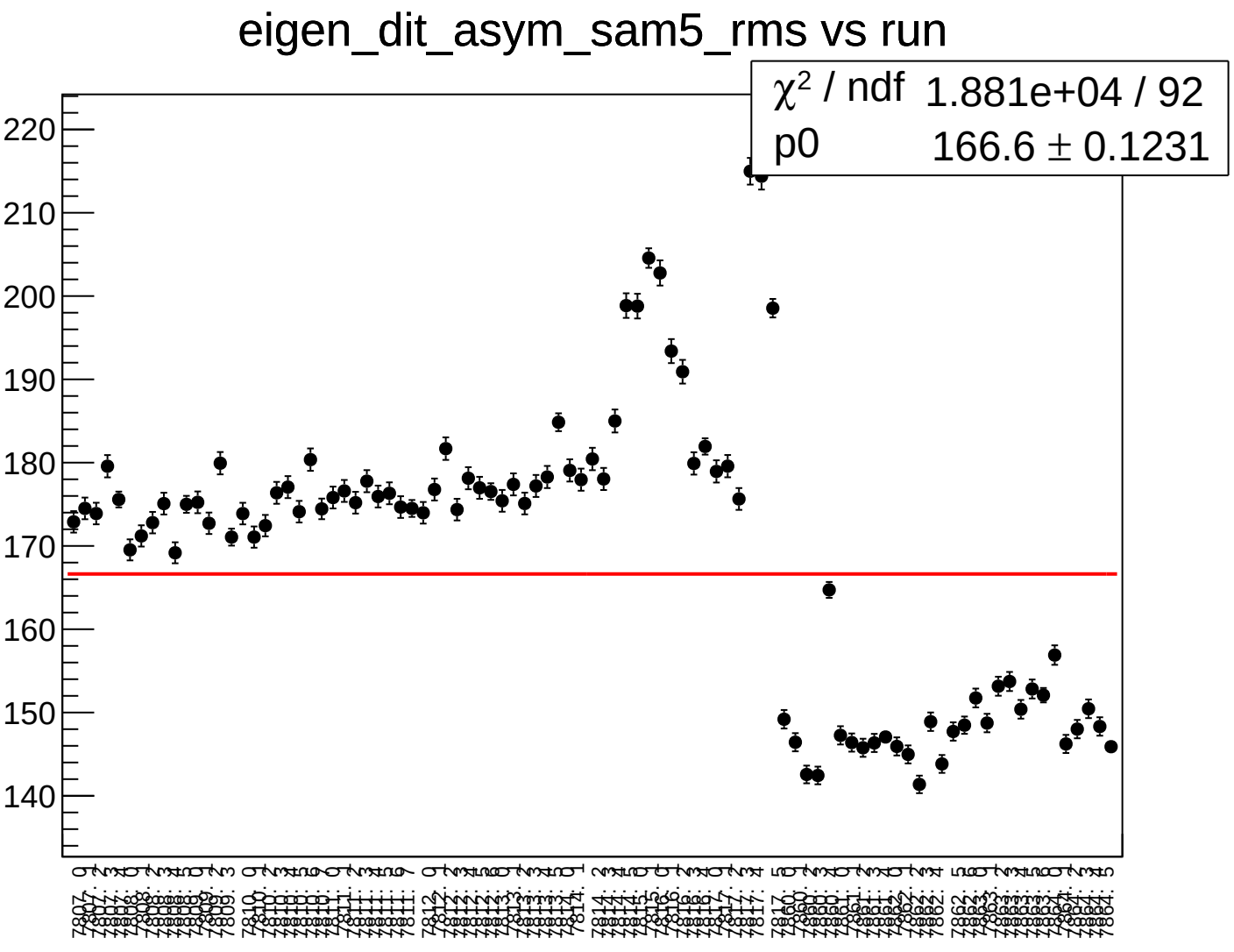

asym_sam5_dit_correction_mean vs run
χ² / ndf 101.9 / 92
p0 −276.2 ± 976.7
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean −20.63
Std Dev 0
2
1
0
−1
−2

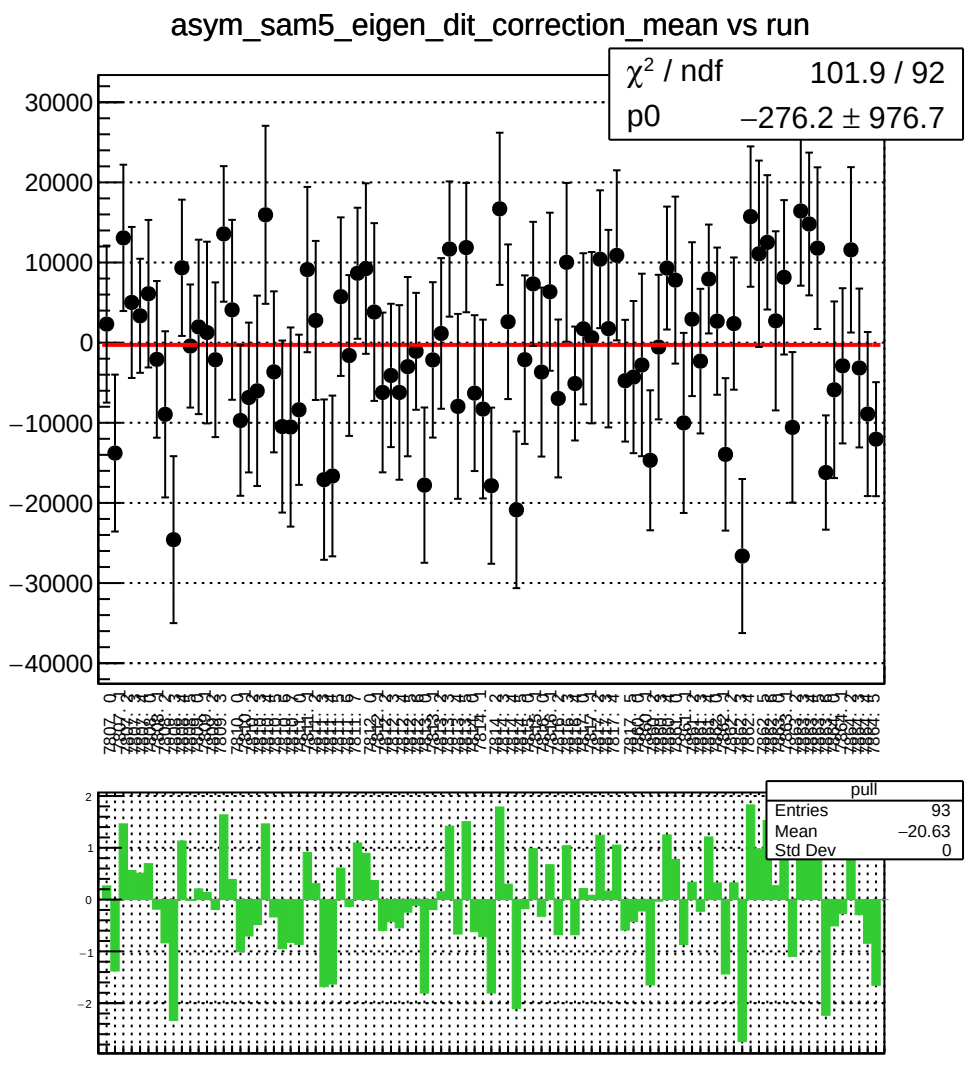

pull1D
Entries 93
Mean −0.01672
Std Dev 1.046
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

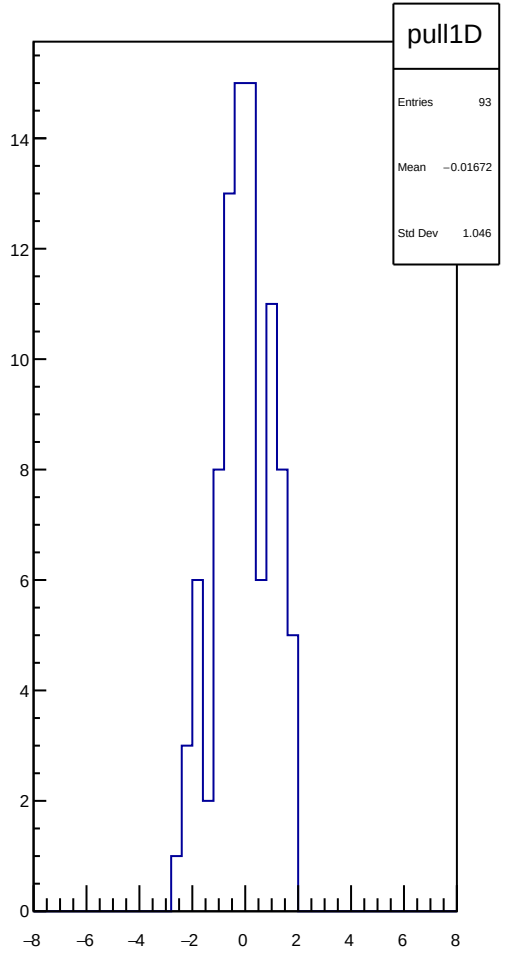

asym_sam5_dit_correction_rms vs run
χ² / ndf 1.188e+04 / 92
p0 936.8 ± 0.6907
1200
1100
1000
900
800

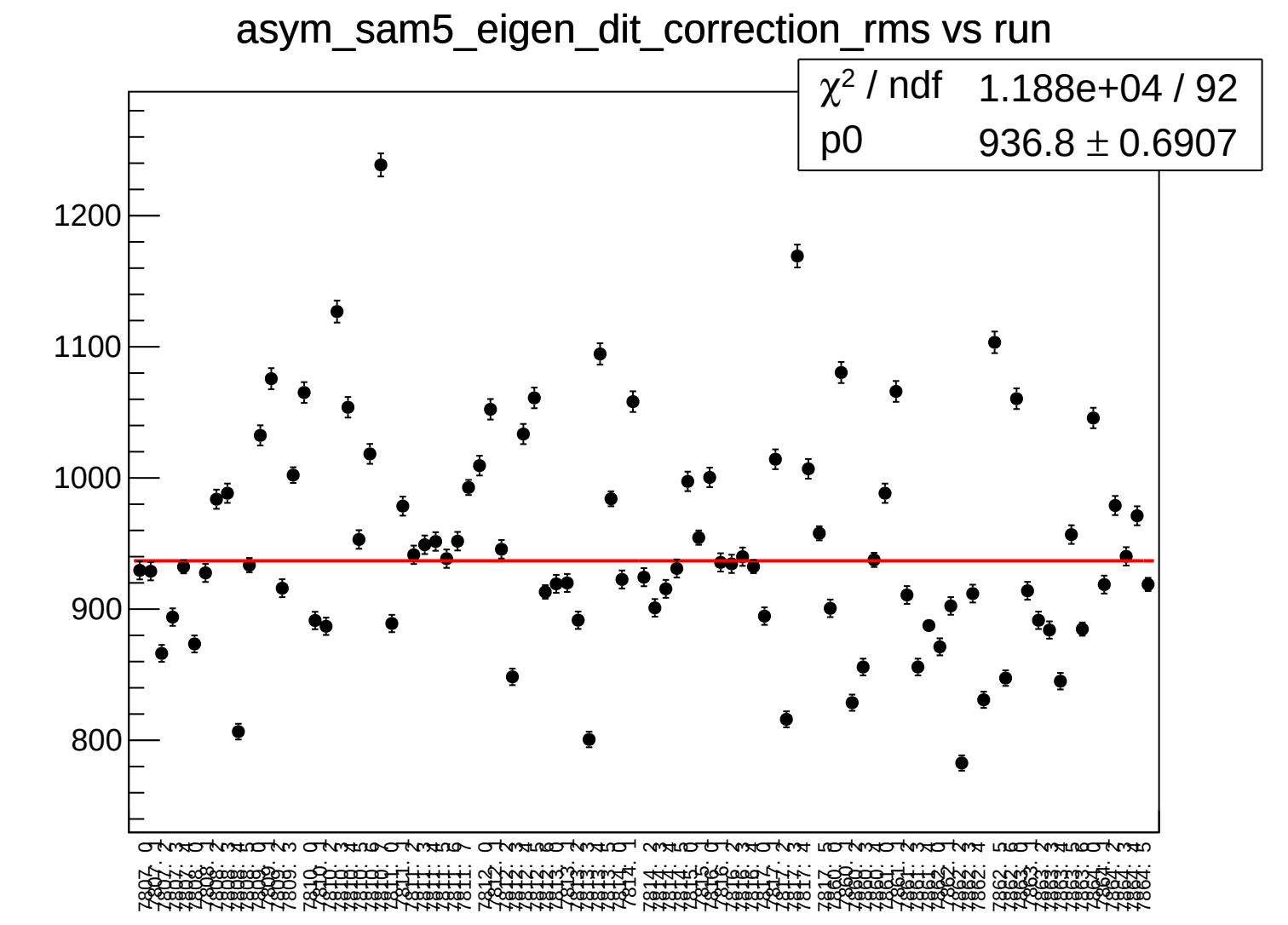

eigen_dit_asym_sam5_mean vs run
χ² / ndf 97.86 / 92
p0 −35.89 ± 174.1
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean 187.3
Std Dev 0
2
1
0
−1
−2

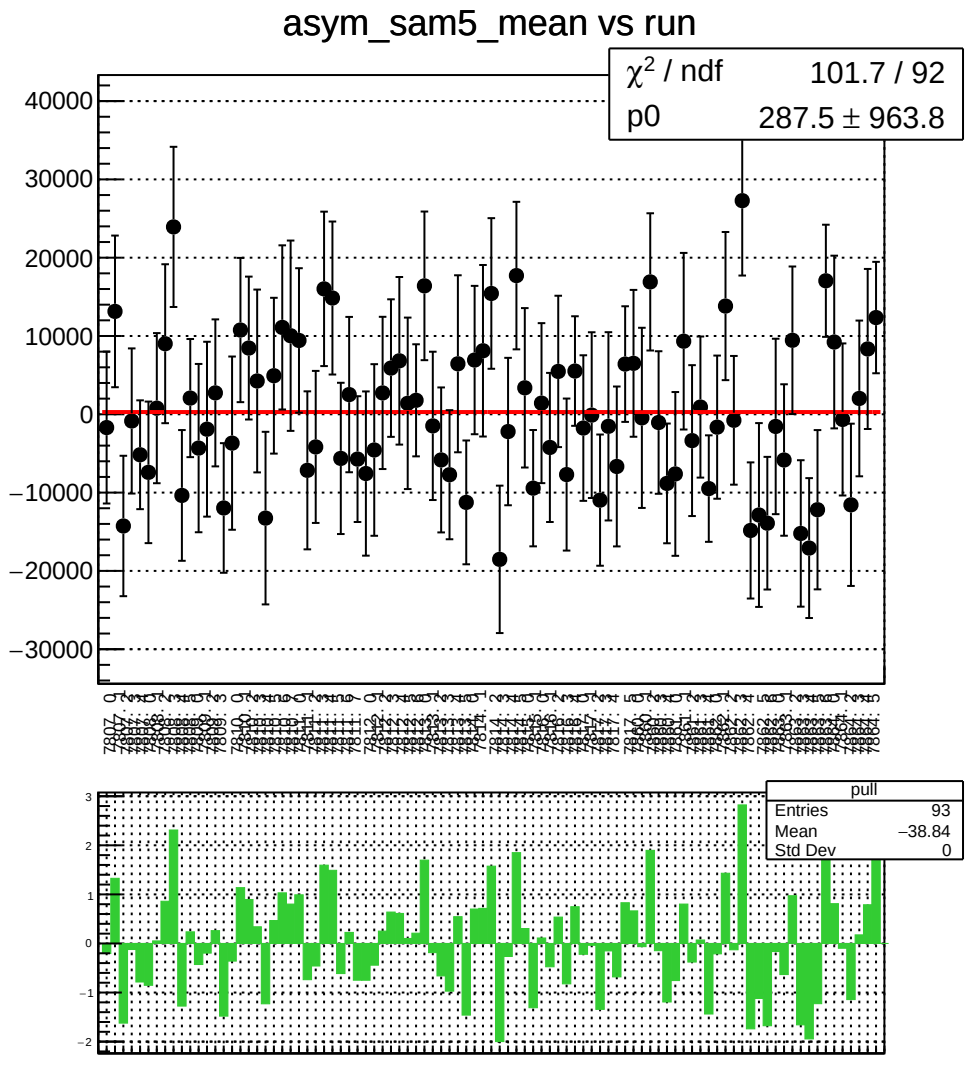

pull1D
Entries 93
Mean −0.003918
Std Dev 1.026
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

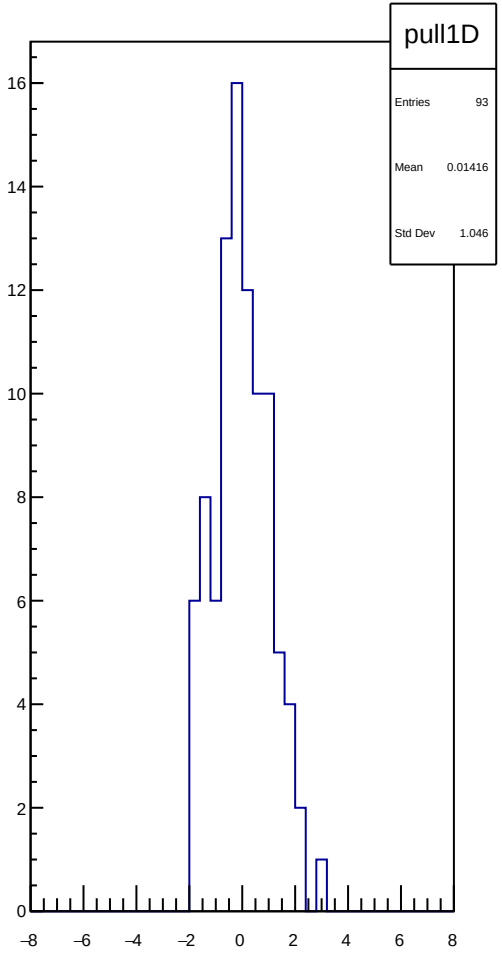

eigen_dit_asym_sam5_rms vs run
χ² / ndf 1.881e+04 / 92
p0 166.6 ± 0.1231
220
210
200
190
180
170
160
150
140

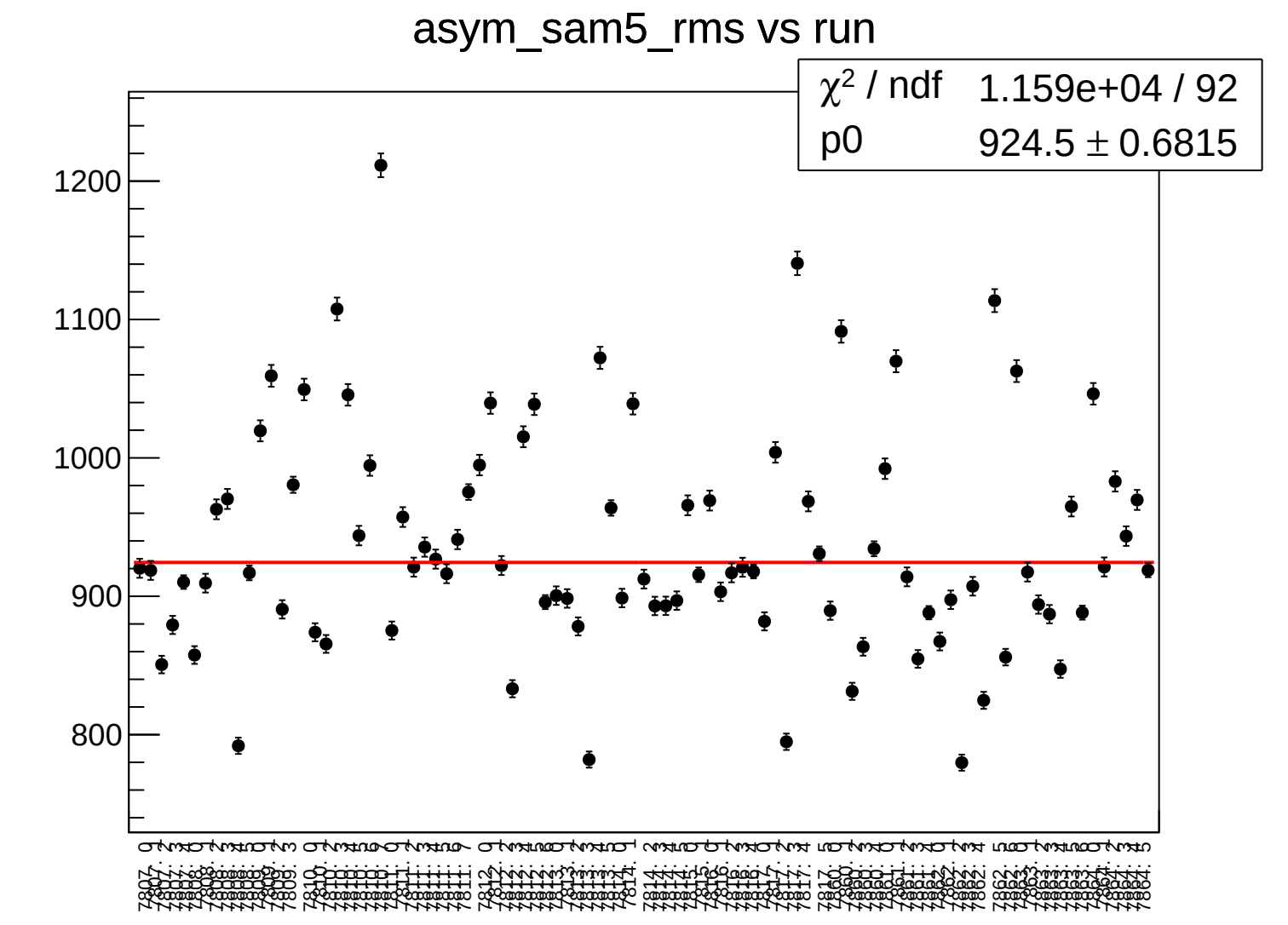

asym_sam5_eigen_dit_correction_mean vs run
χ² / ndf 101.9 / 92
p0 −276.2 ± 976.7
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean −20.63
Std Dev 0
2
1
0
−1
−2

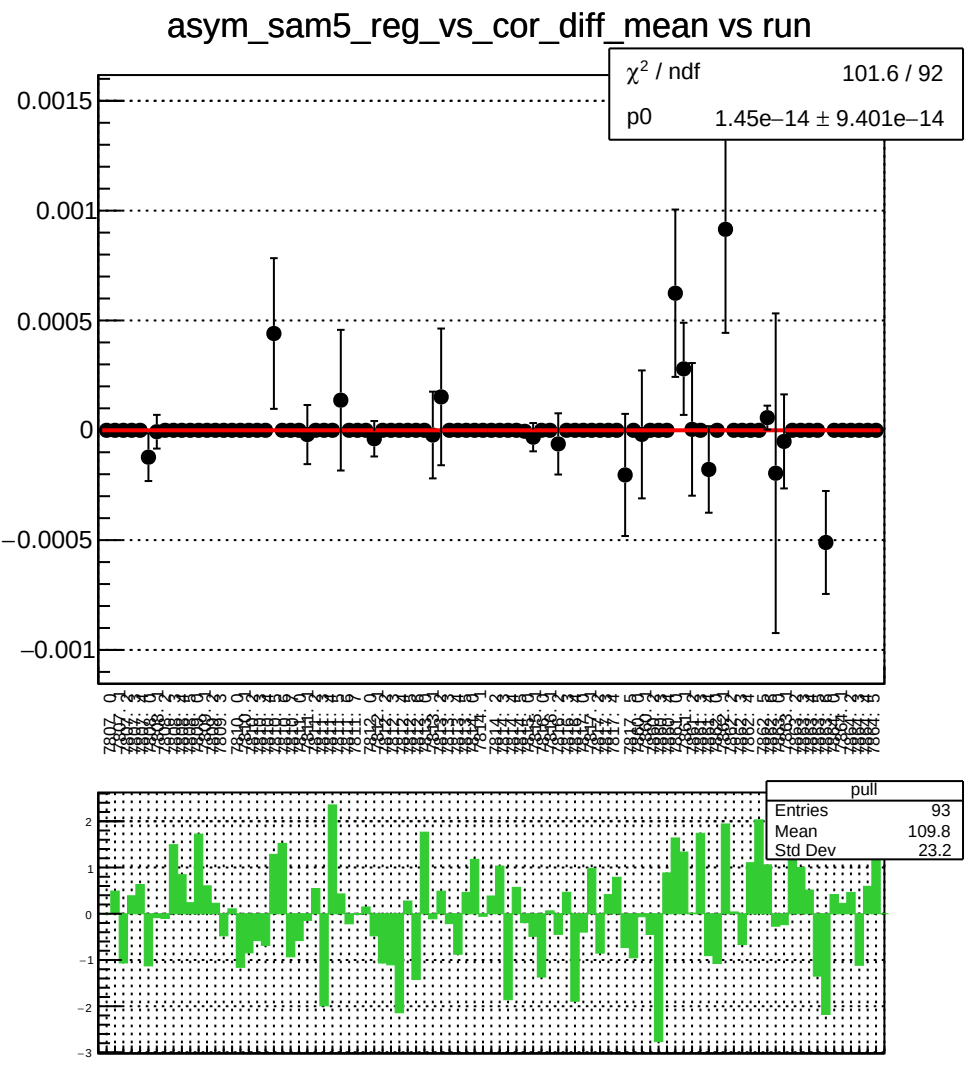

pull1D
Entries 93
Mean −0.01672
Std Dev 1.046
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

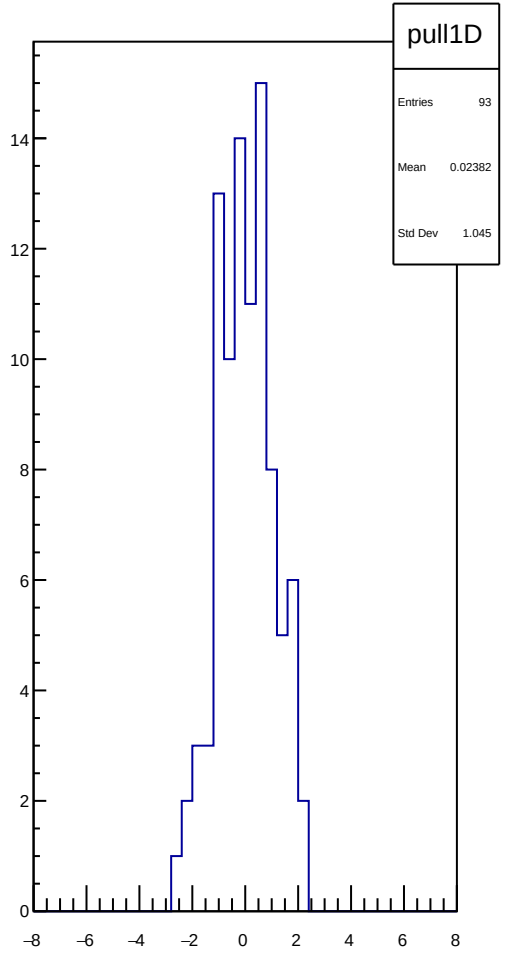

asym_sam5_eigen_dit_correction_rms vs run
χ² / ndf 1.188e+04 / 92
p0 936.8 ± 0.6907
1200
1100
1000
900
800

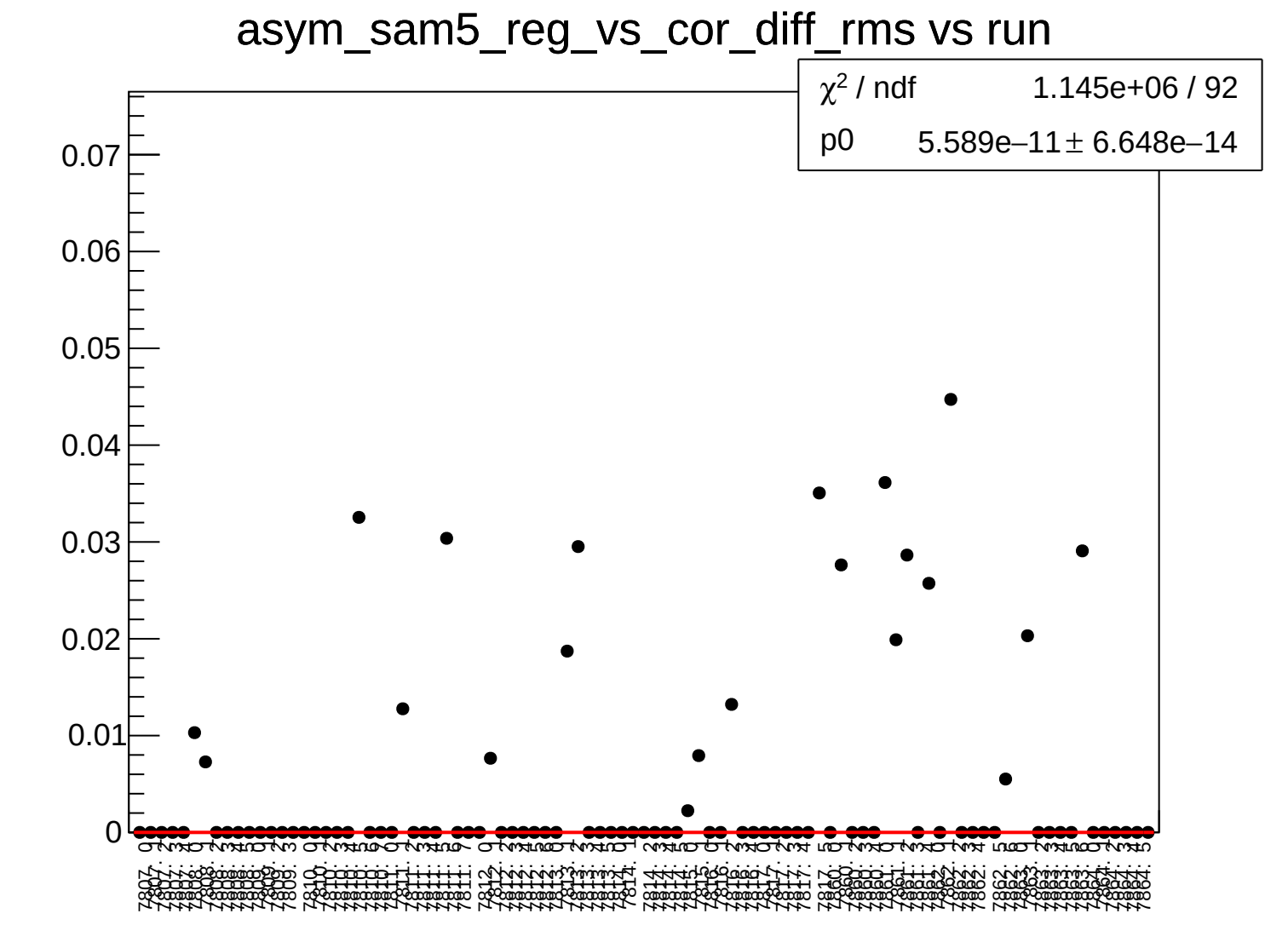

asym_sam5_mean vs run
χ² / ndf 101.7 / 92
p0 287.5 ± 963.8
pull
Entries 93
Mean −38.84
Std Dev 0

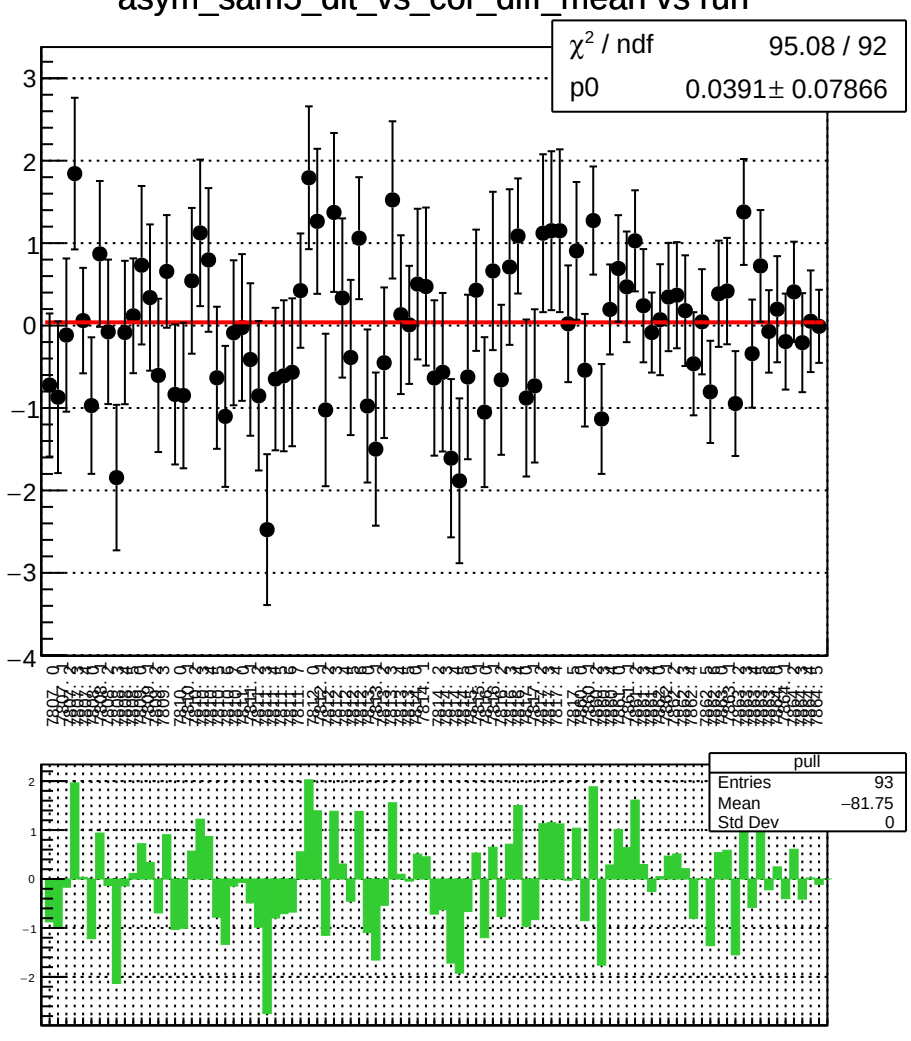

pull1D
Entries 93
Mean 0.01416
Std Dev 1.046

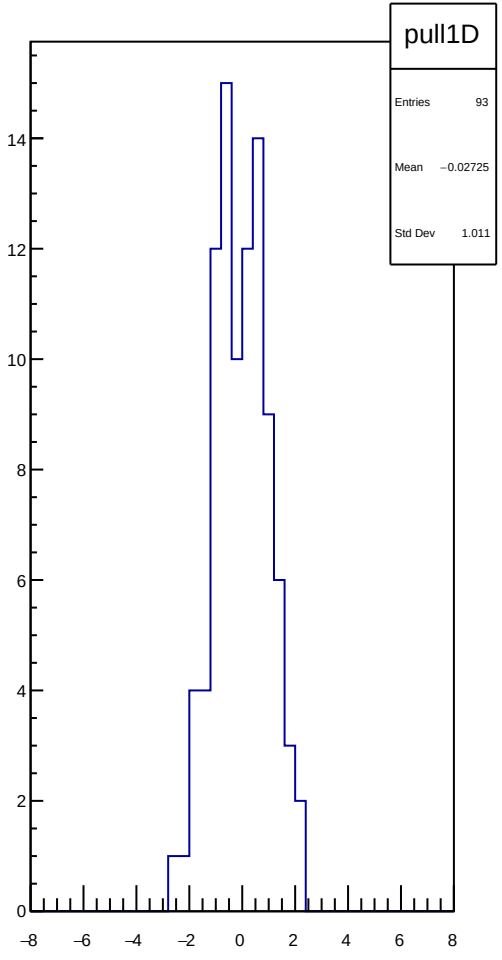

asym_sam5_rms vs run
χ² / ndf 1.159e+04 / 92
p0 924.5 ± 0.6815
1200
1100
1000
900
800

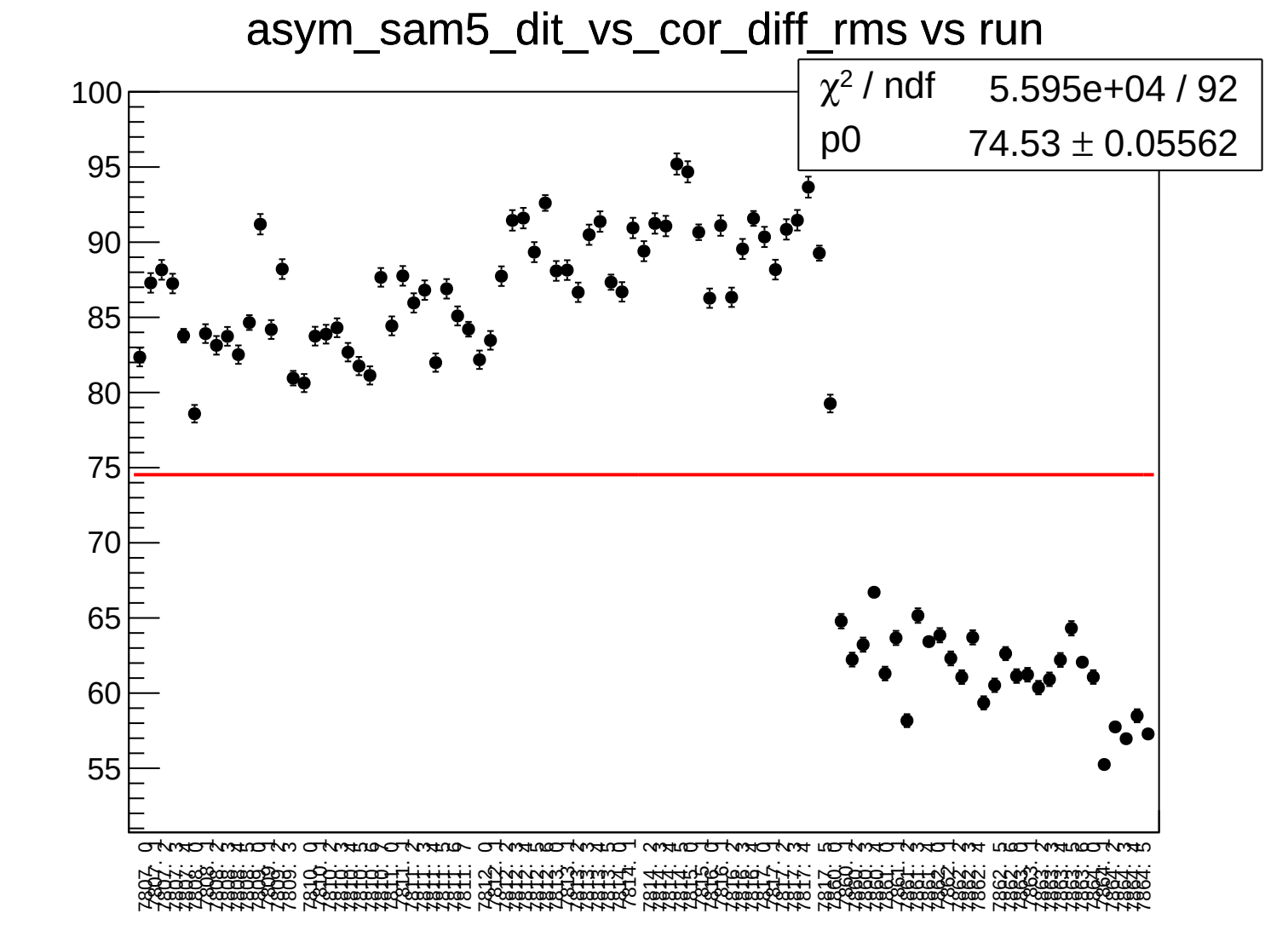

asym_sam5_reg_vs_cor_diff_mean vs run
χ² / ndf 101.6 / 92
p0 1.45e−14 ± 9.401e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 93
Mean 109.8
Std Dev 23.2
2
1
0
−1
−2
−3

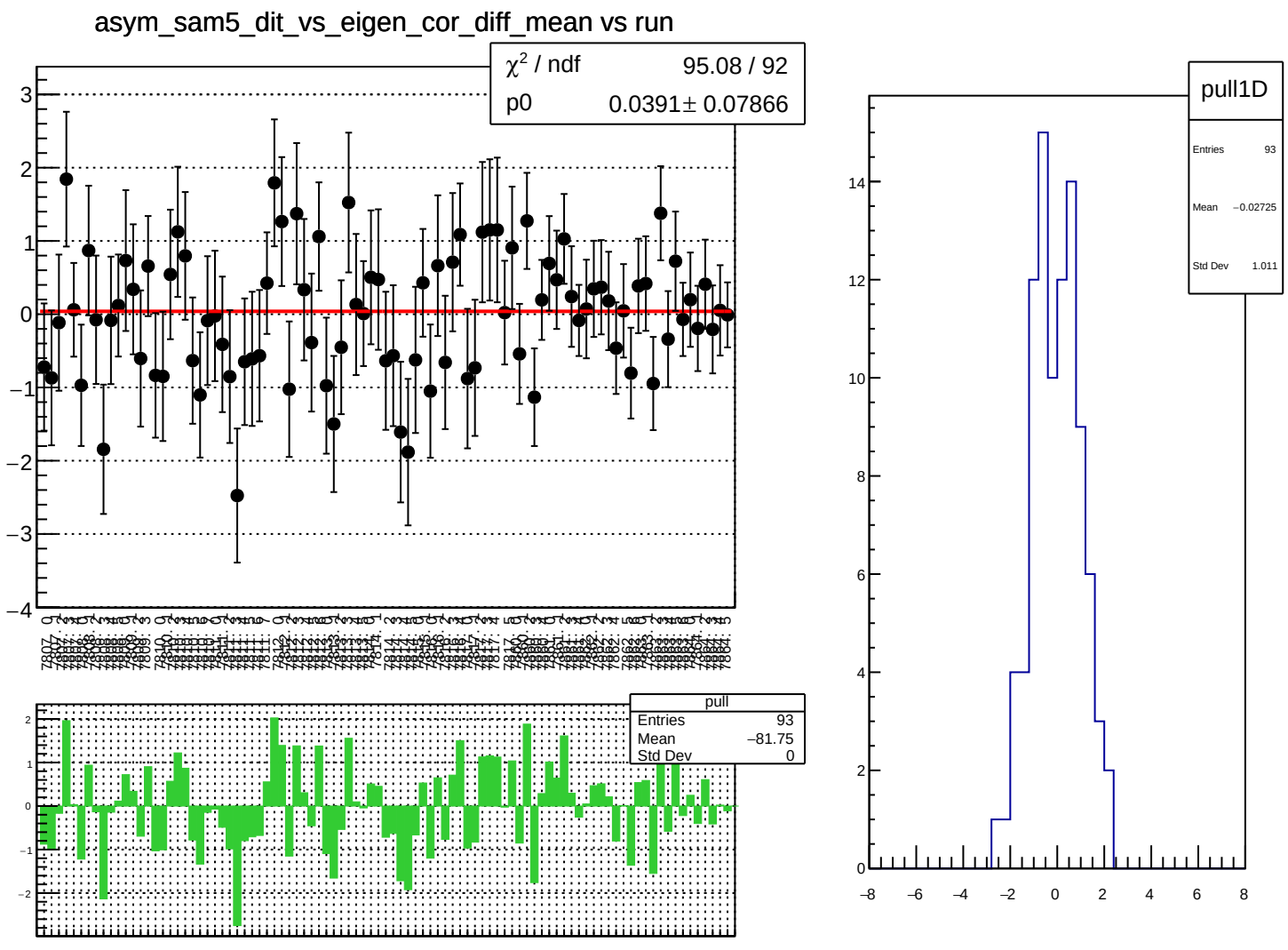

pull1D
Entries 93
Mean 0.02382
Std Dev 1.045
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

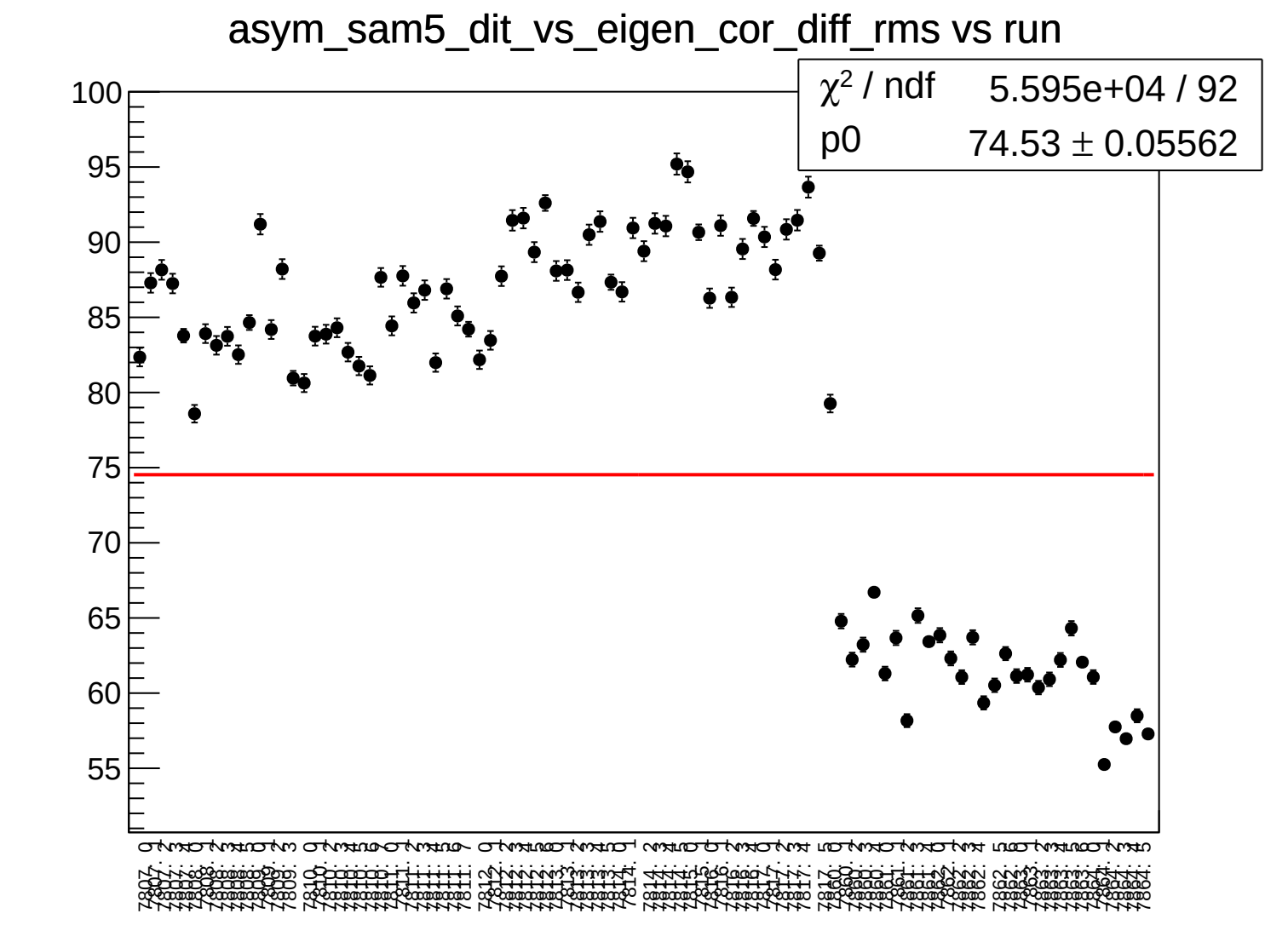

asym_sam5_reg_vs_cor_diff_rms vs run
χ² / ndf 1.145e+06 / 92
p0 5.589e−11 ± 6.648e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

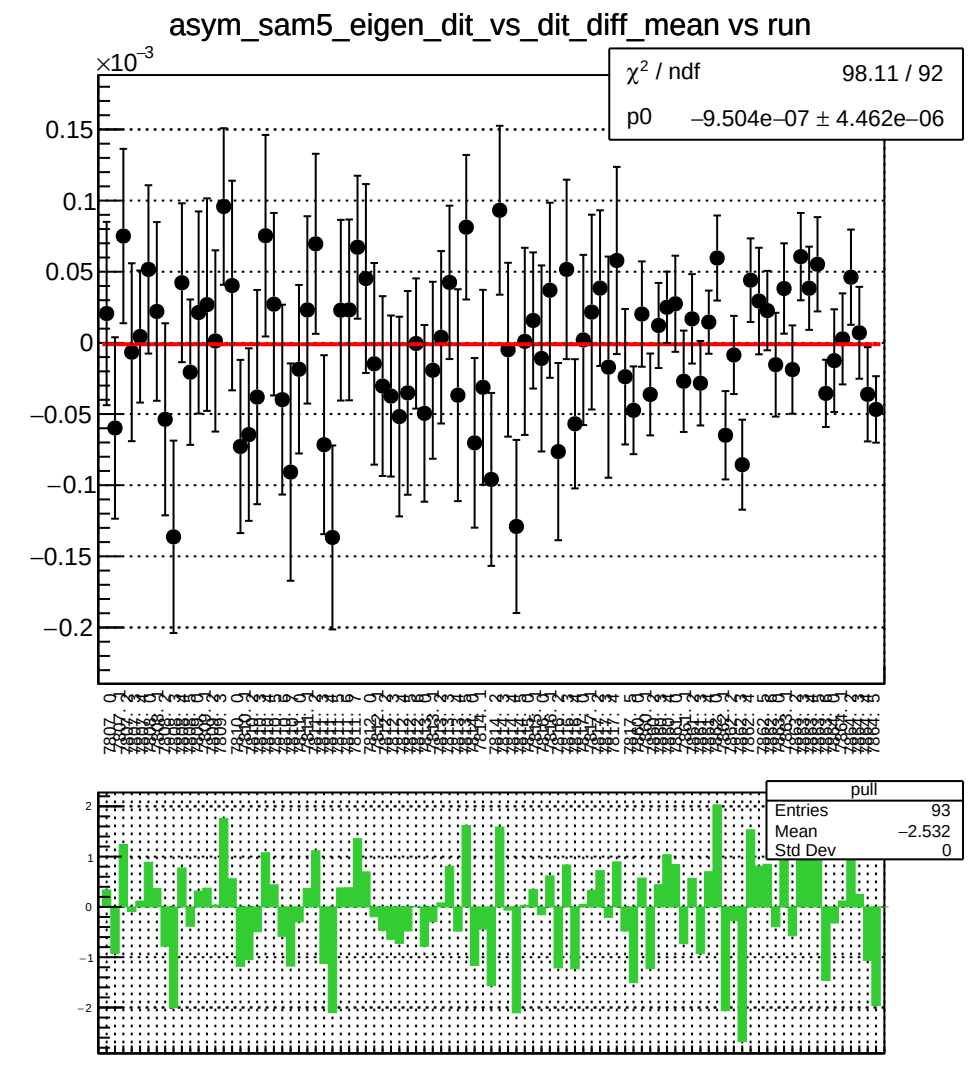

asym_sam5_dit_vs_cor_diff_mean vs run
χ² / ndf 95.08 / 92
p0 0.0391± 0.07866
pull
Entries 93
Mean −81.75
Std Dev 0

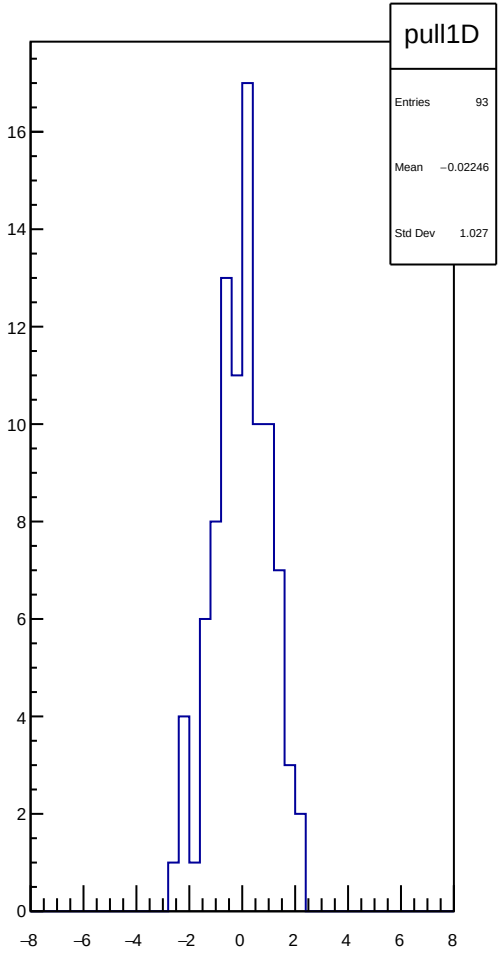

pull1D
Entries 93
Mean −0.02725
Std Dev 1.011

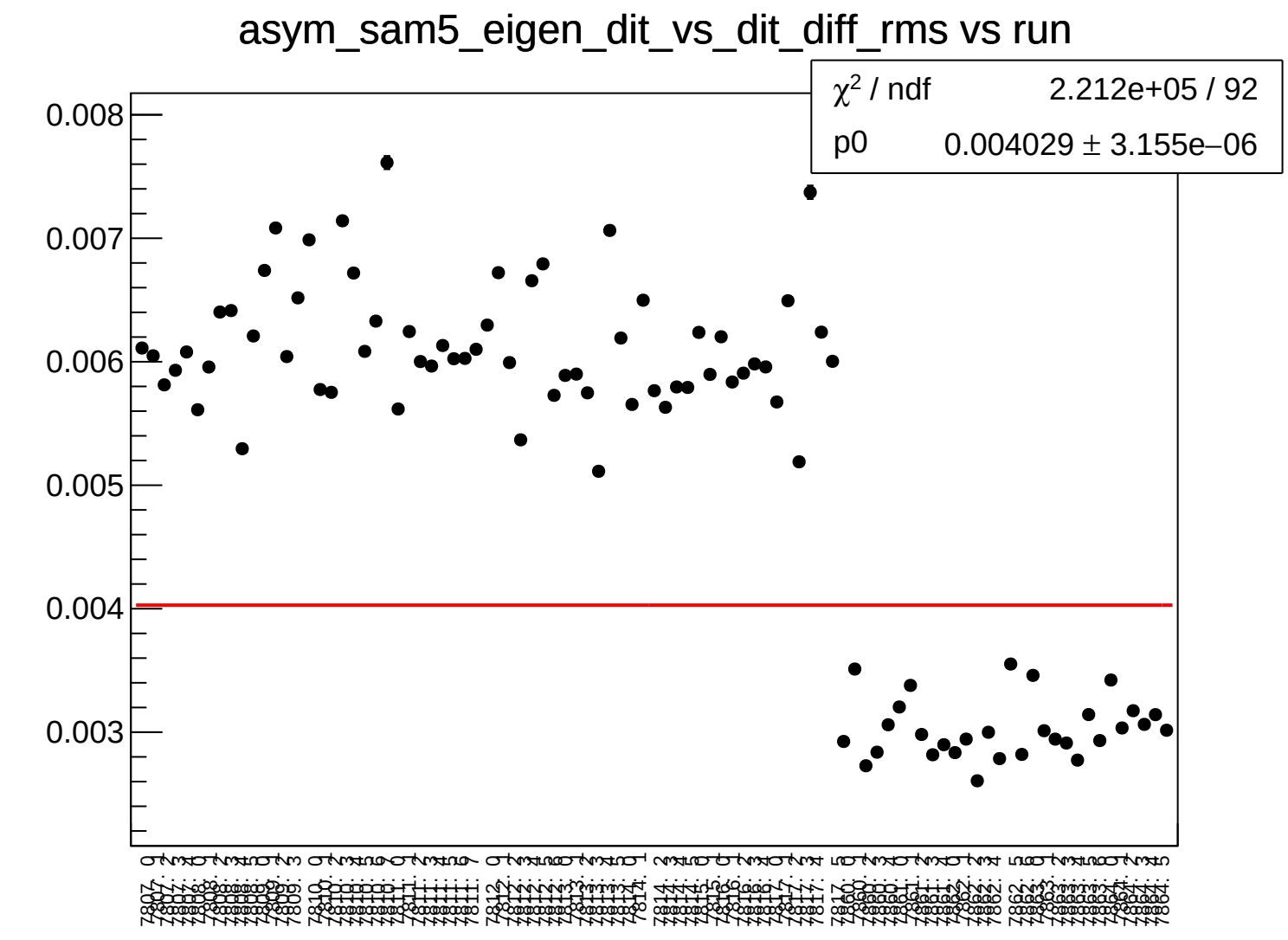

asym_sam5_dit_vs_cor_diff_rms vs run
χ^2 / ndf 5.595e+04 / 92
p0 74.53 ± 0.05562
100
95
90
85
80
75
70
65
60
55

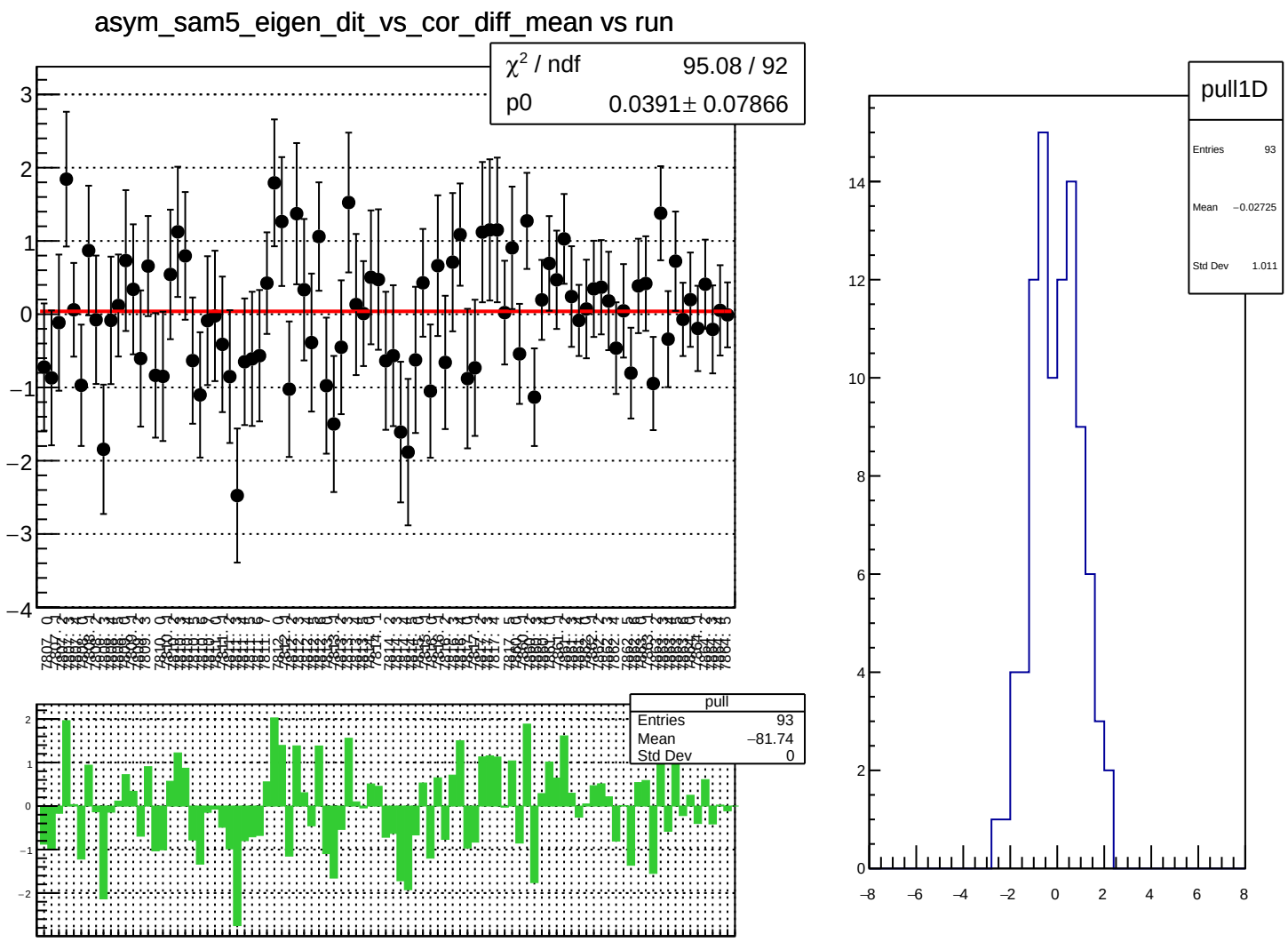

asym_sam5_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.08 / 92
p0 0.0391± 0.07866
pull
Entries 93
Mean −81.75
Std Dev 0
pull1D
Entries 93
Mean −0.02725
Std Dev 1.011

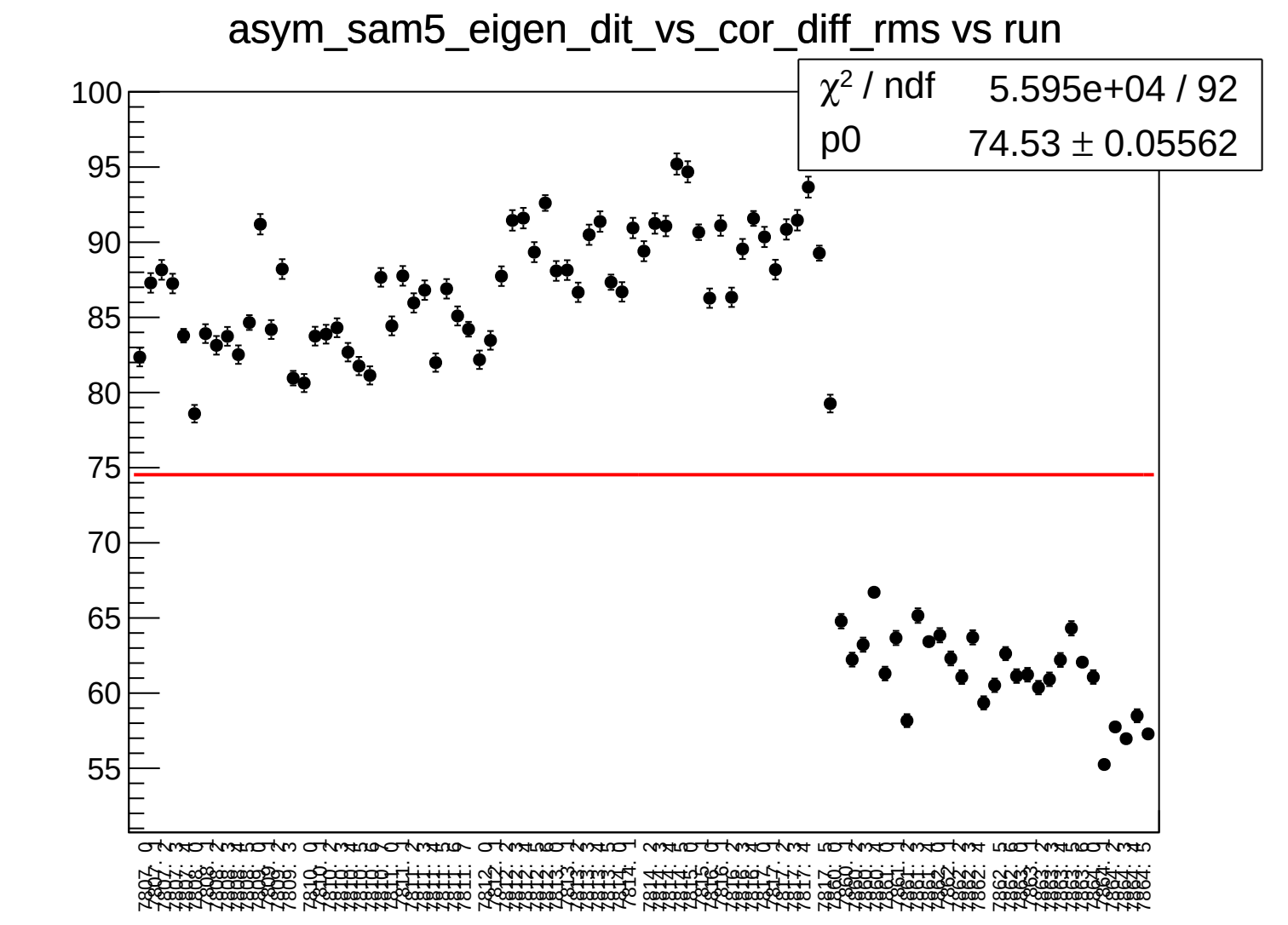

asym_sam5_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 5.595e+04 / 92
p0 74.53 ± 0.05562
100
95
90
85
80
75
70
65
60
55

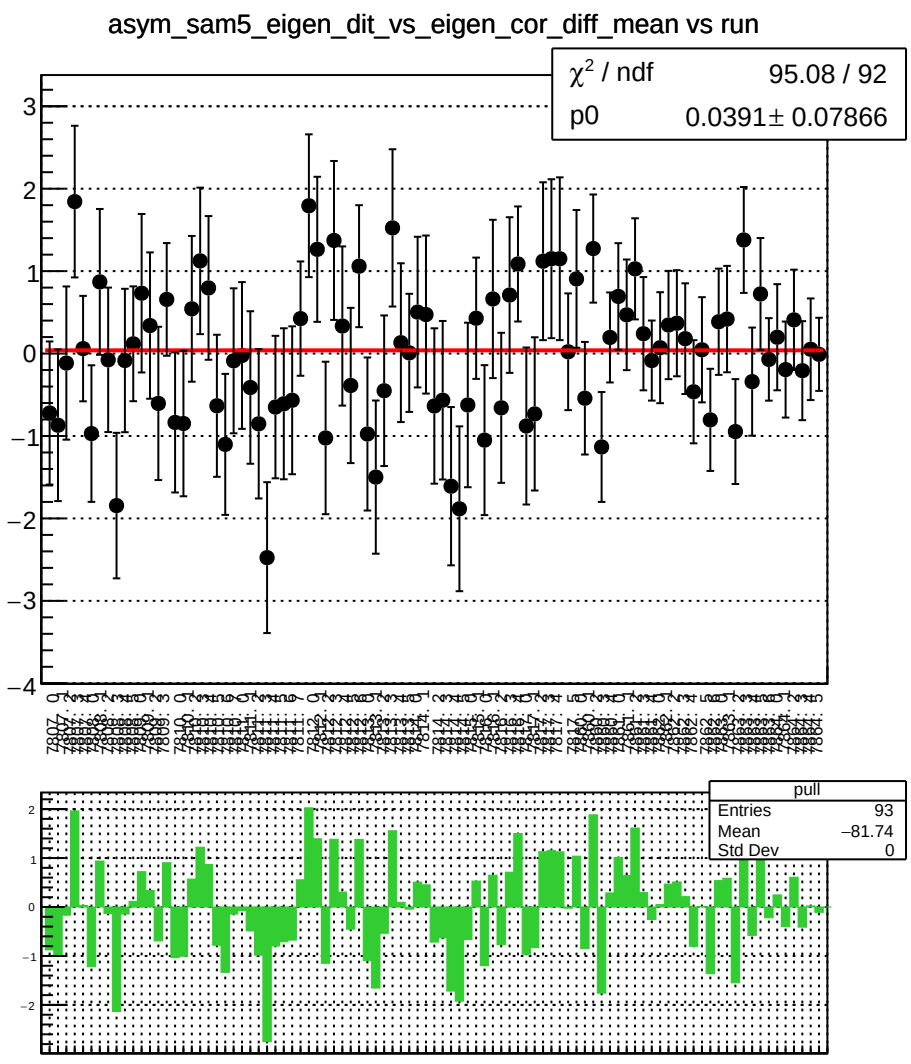

asym_sam5_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 98.11 / 92
p0 −9.504e−07 ± 4.462e−06
pull
Entries 93
Mean −2.532
Std Dev 0

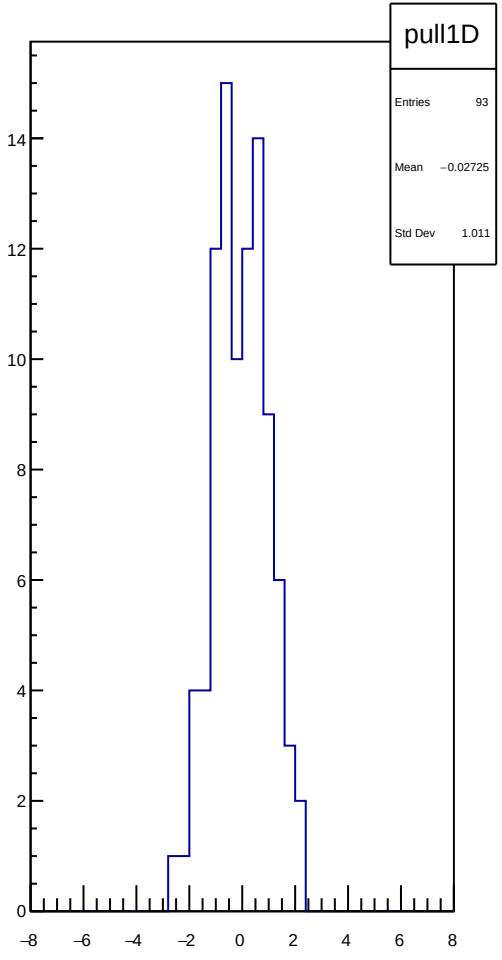

pull1D
Entries 93
Mean −0.02246
Std Dev 1.027

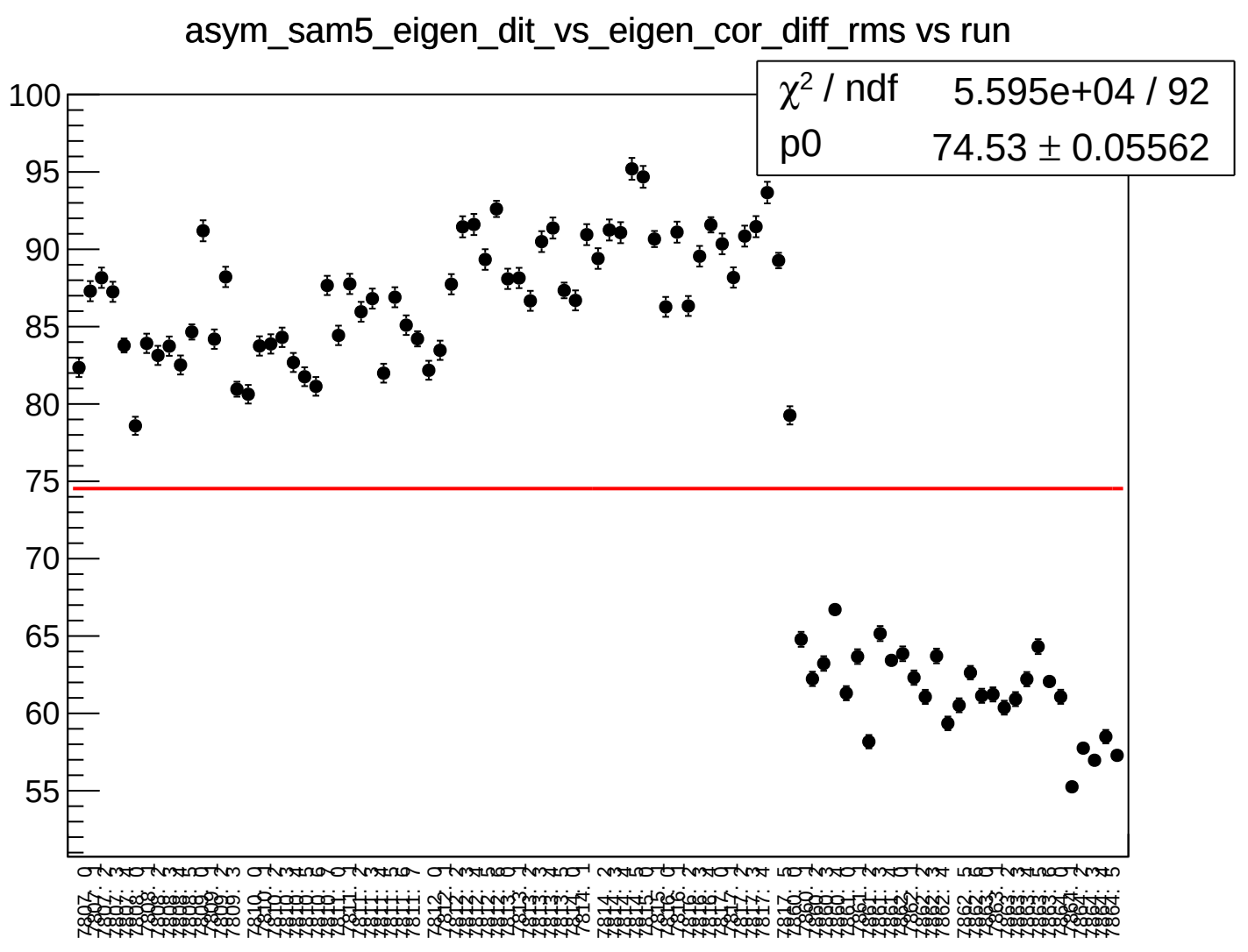

asym_sam5_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.212e+05 / 92
p0 0.004029 ± 3.155e−06
0.008
0.007
0.006
0.005
0.004
0.003

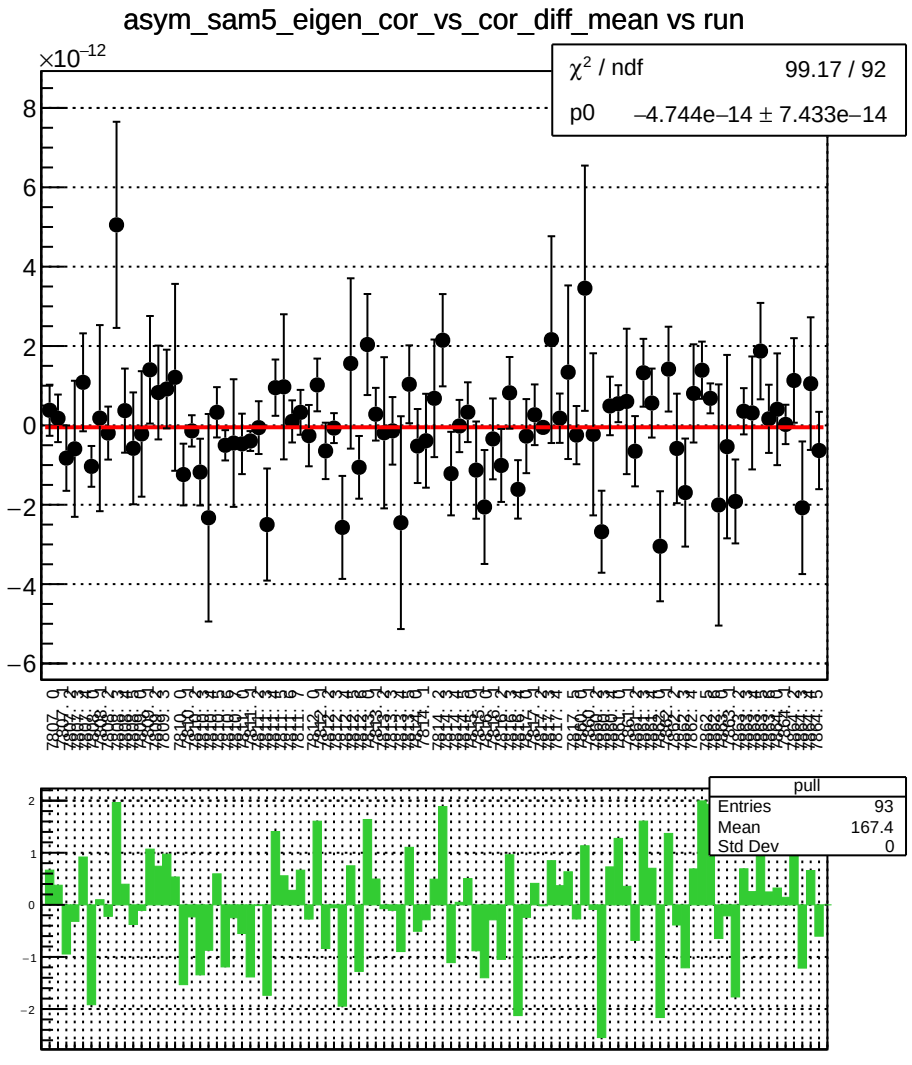

asym_sam5_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.08 / 92
p0 0.0391± 0.07866
pull
Entries 93
Mean −81.74
Std Dev 0
pull1D
Entries 93
Mean −0.02725
Std Dev 1.011

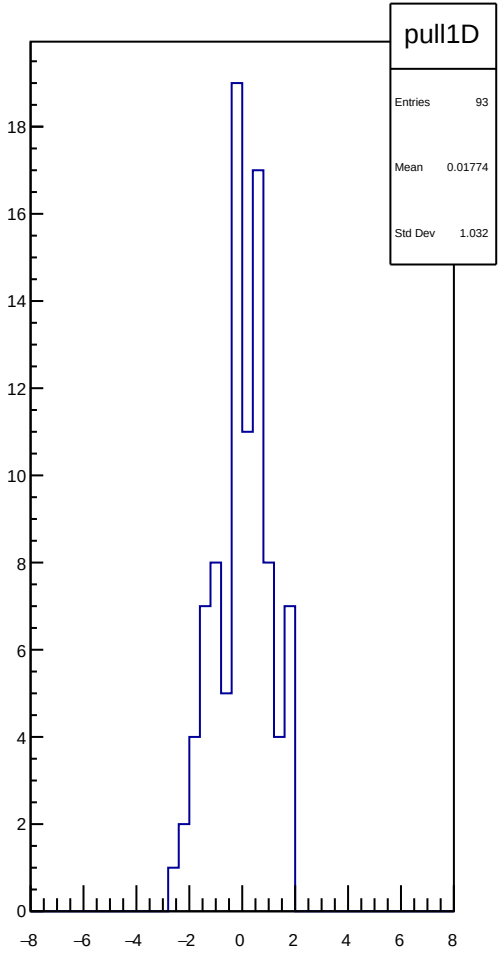

asym_sam5_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.595e+04 / 92
p0 74.53 ± 0.05562
100
95
90
85
80
75
70
65
60
55

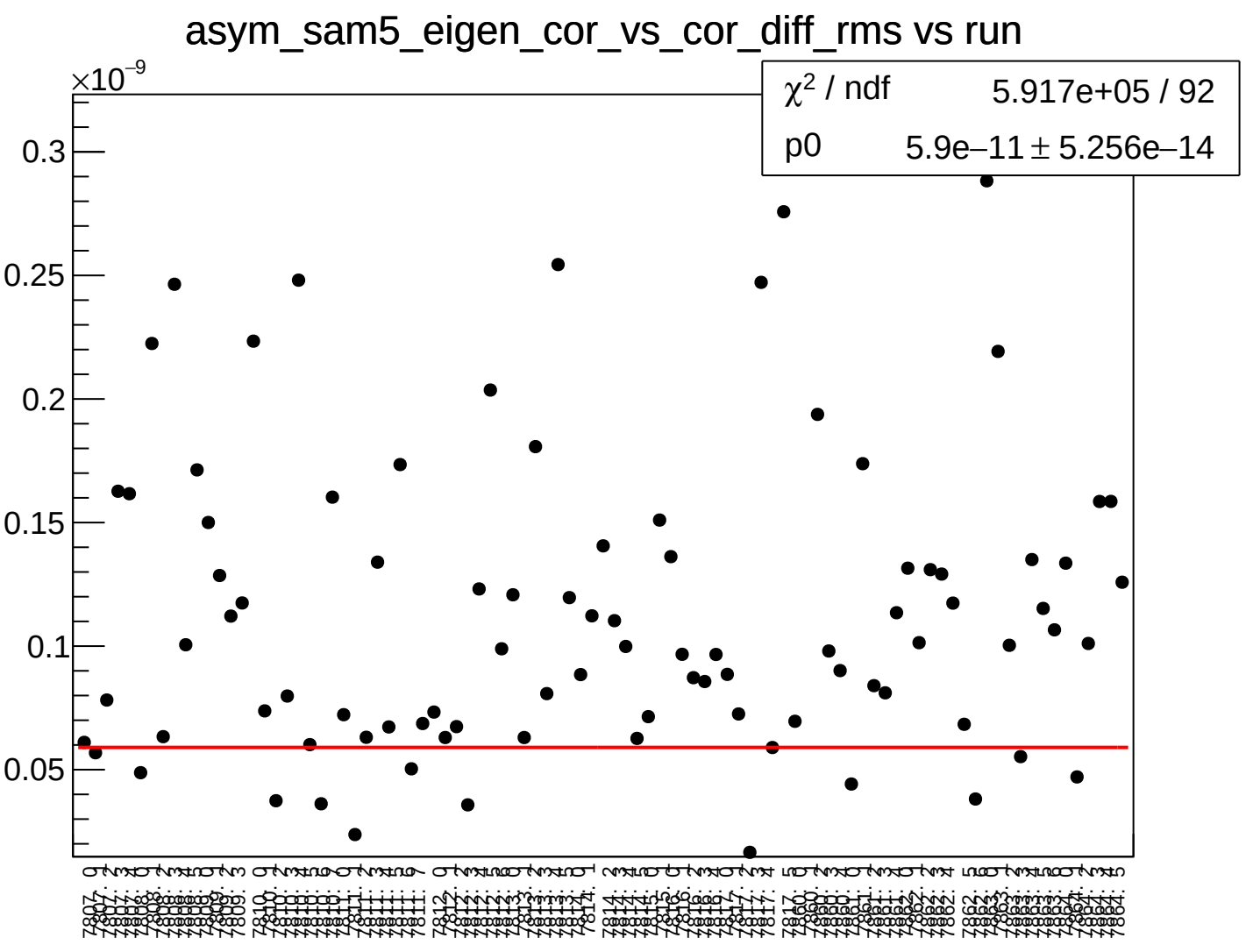

asym_sam5_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.08 / 92
p0 0.0391± 0.07866
pull
Entries 93
Mean −81.74
Std Dev 0

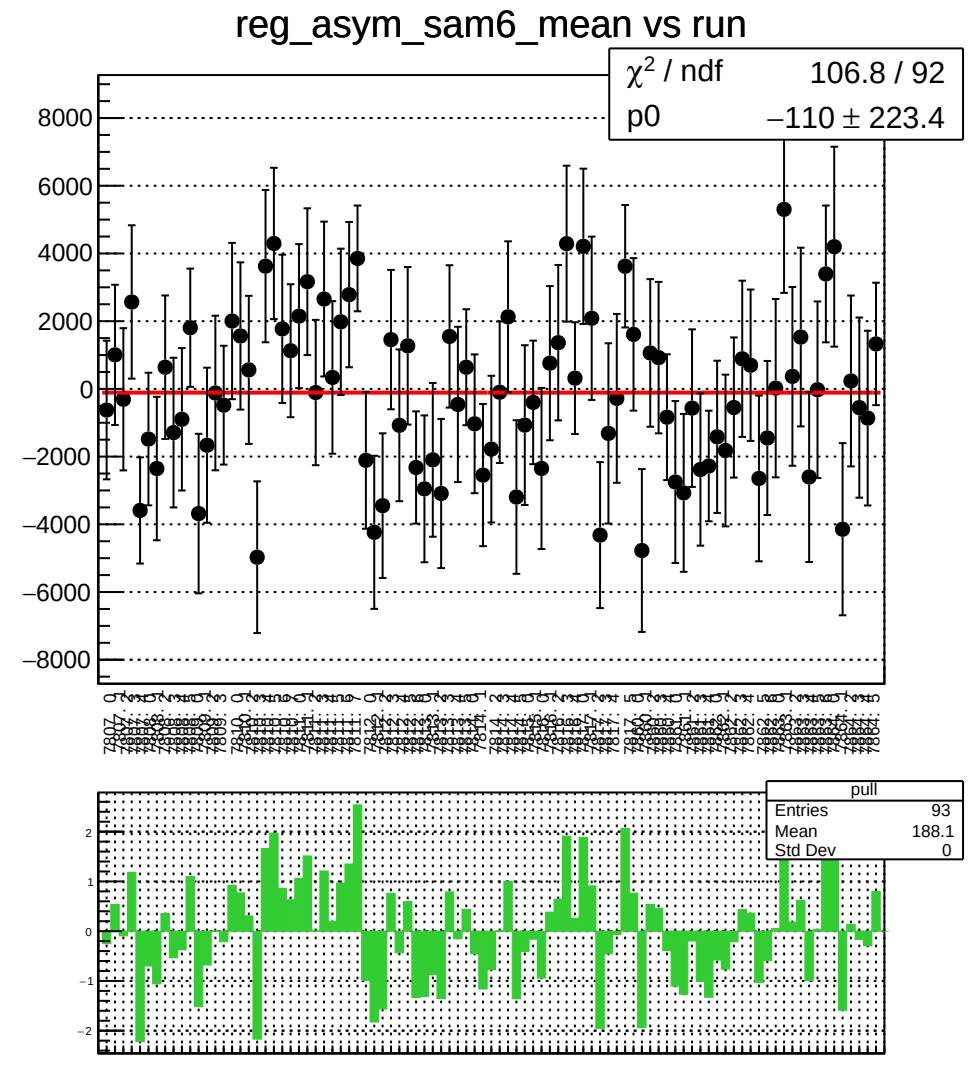

pull1D
Entries 93
Mean −0.02725
Std Dev 1.011

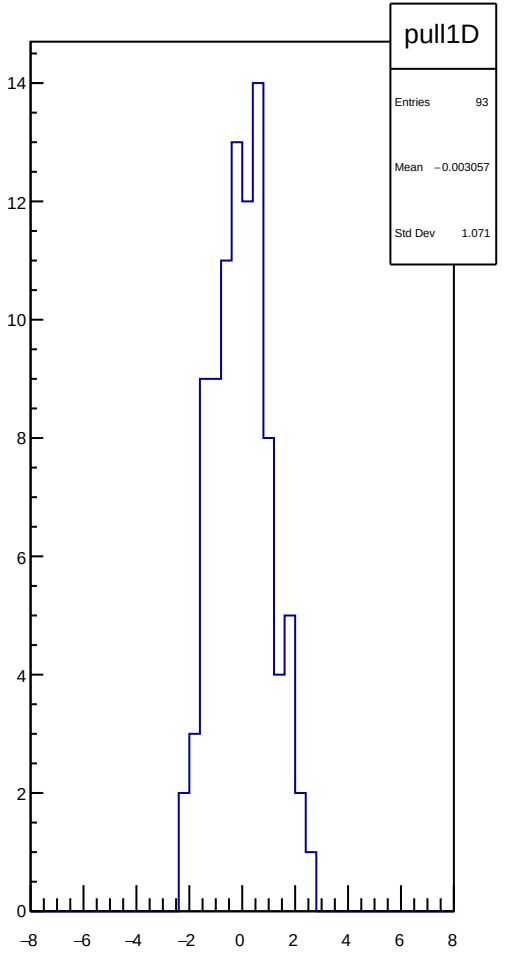

asym_sam5_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.595e+04 / 92
p0 74.53 ± 0.05562
100
95
90
85
80
75
70
65
60
55

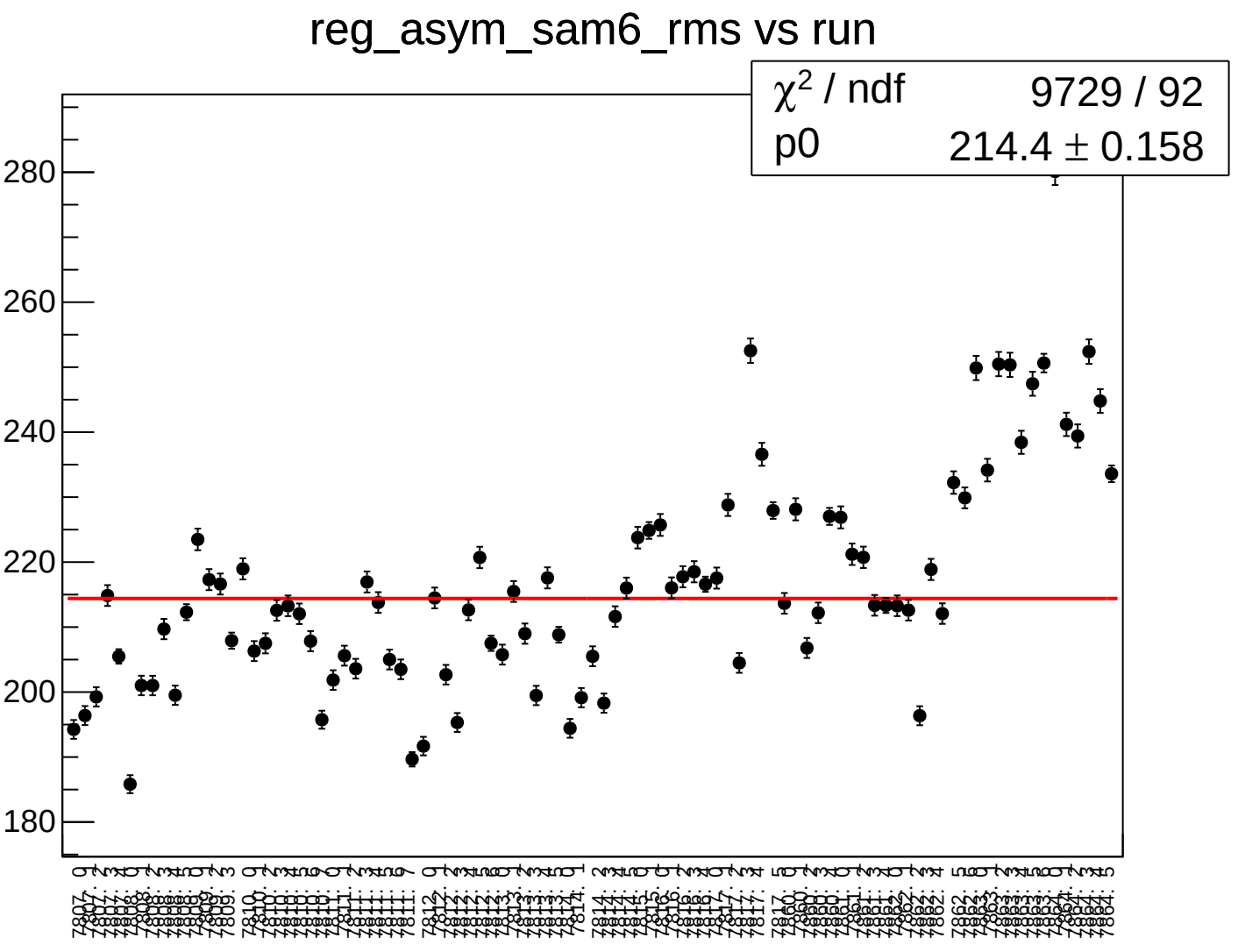

asym_sam5_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.17 / 92
p0 −4.744e−14 ± 7.433e−14
pull
Entries 93
Mean 167.4
Std Dev 0

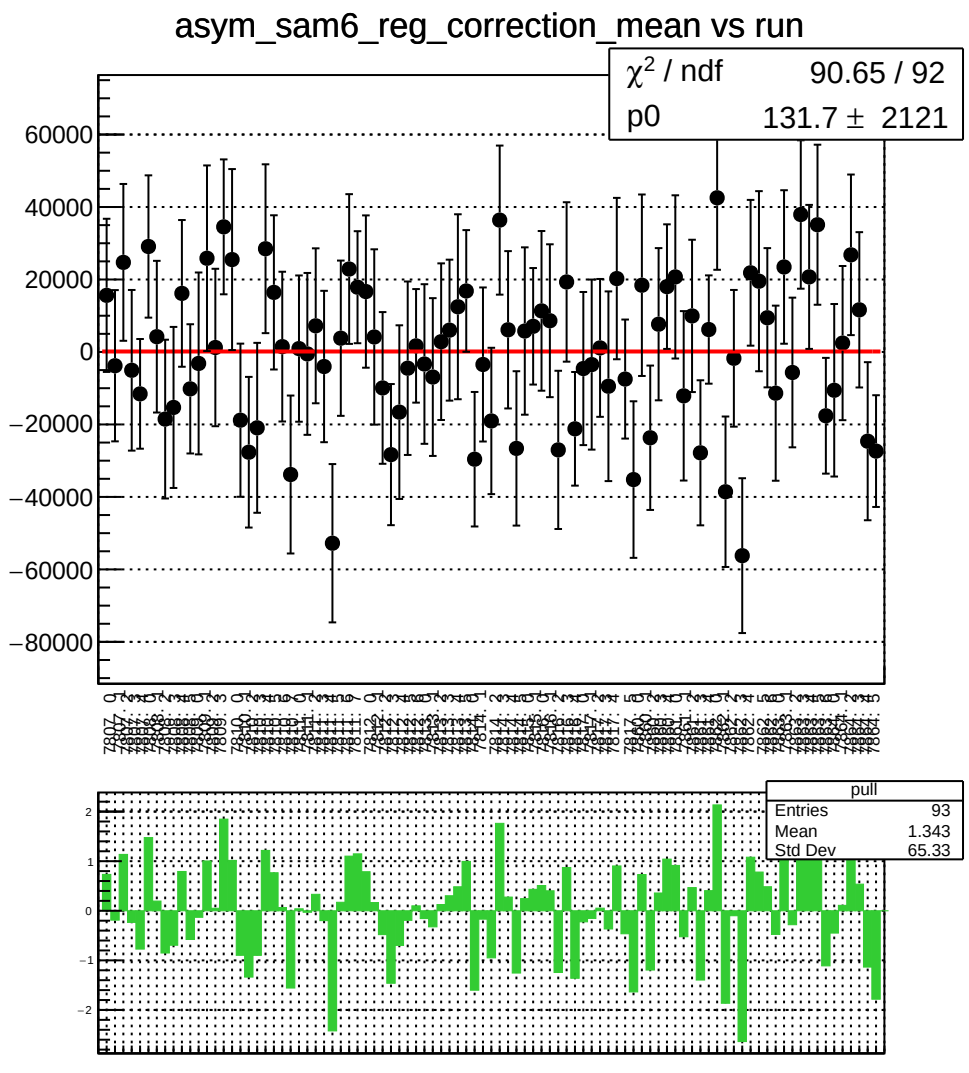

pull1D
Entries 93
Mean 0.01774
Std Dev 1.032

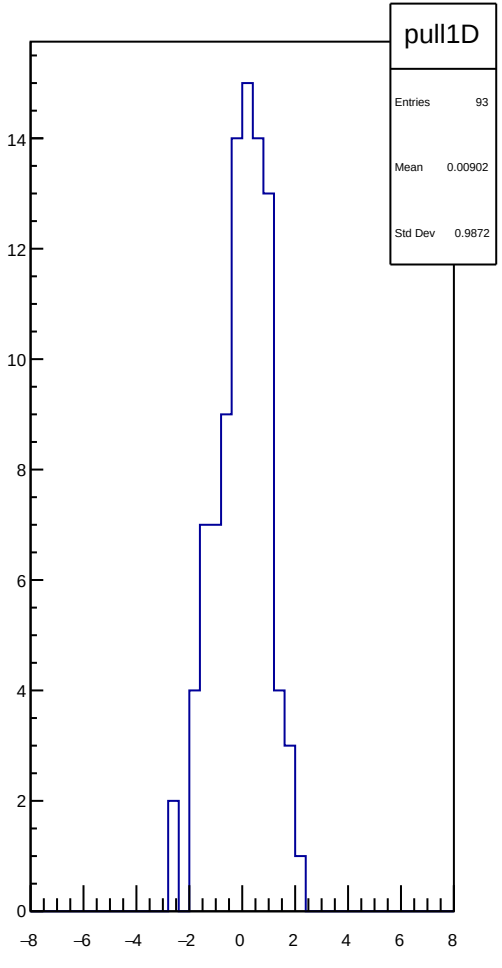

asym_sam5_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.917e+05 / 92
p0 5.9e−11 ± 5.256e−14
0.3
0.25
0.2
0.15
0.1
0.05

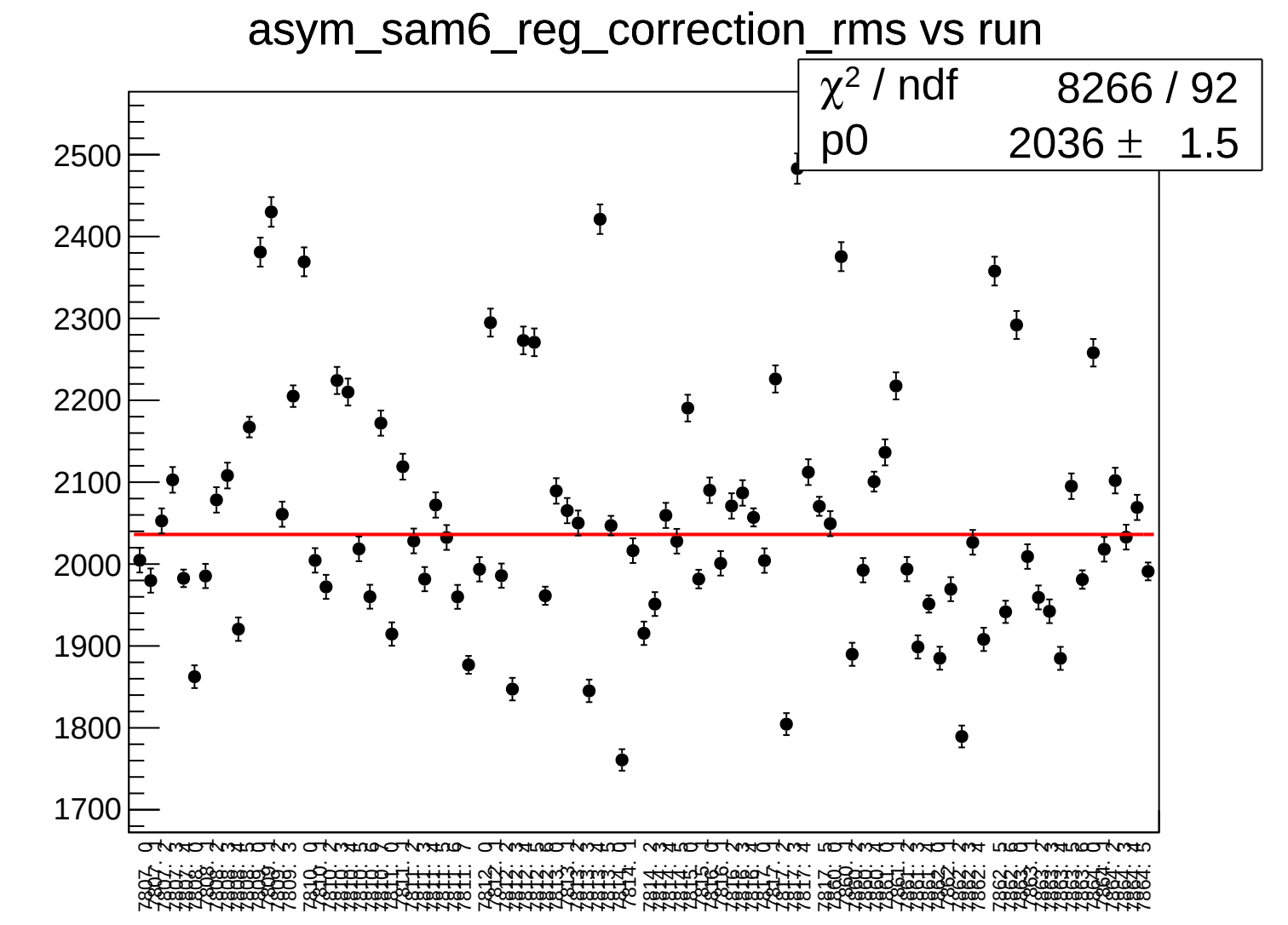

reg_asym_sam6_mean vs run
χ² / ndf 106.8 / 92
p0 −110 ± 223.4
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 93
Mean 188.1
Std Dev 0
2
1
0
−1
−2

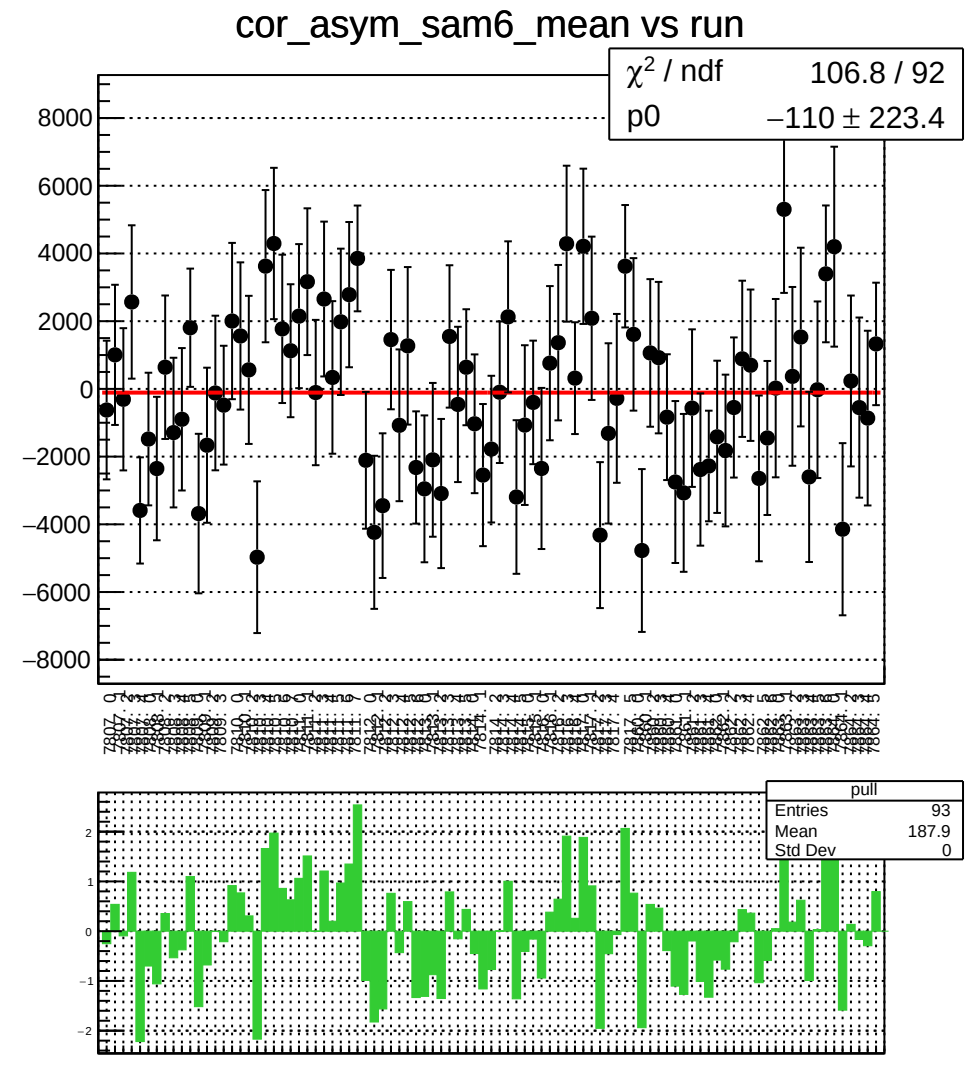

pull1D
Entries 93
Mean −0.003057
Std Dev 1.071
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

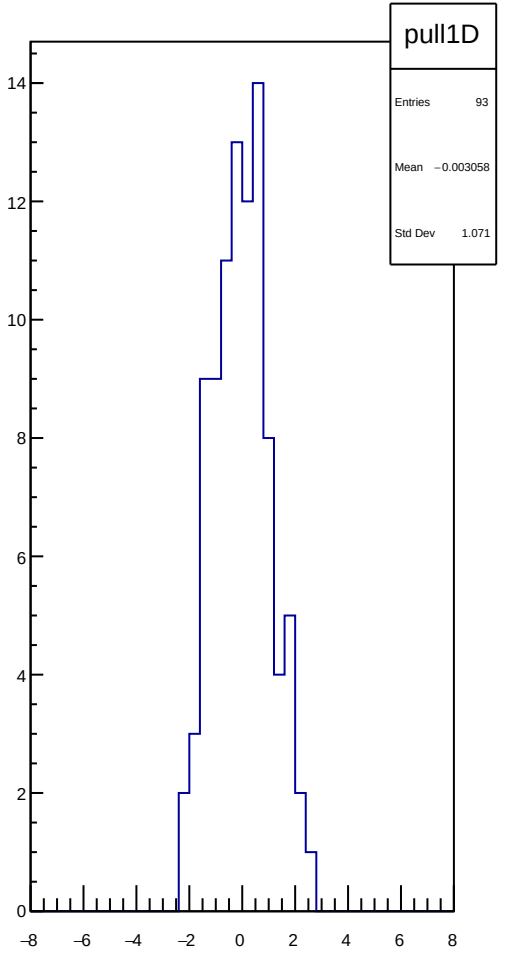

reg_asym_sam6_rms vs run
χ^2 / ndf 9729 / 92
p0 214.4 ± 0.158
280
260
240
220
200
180

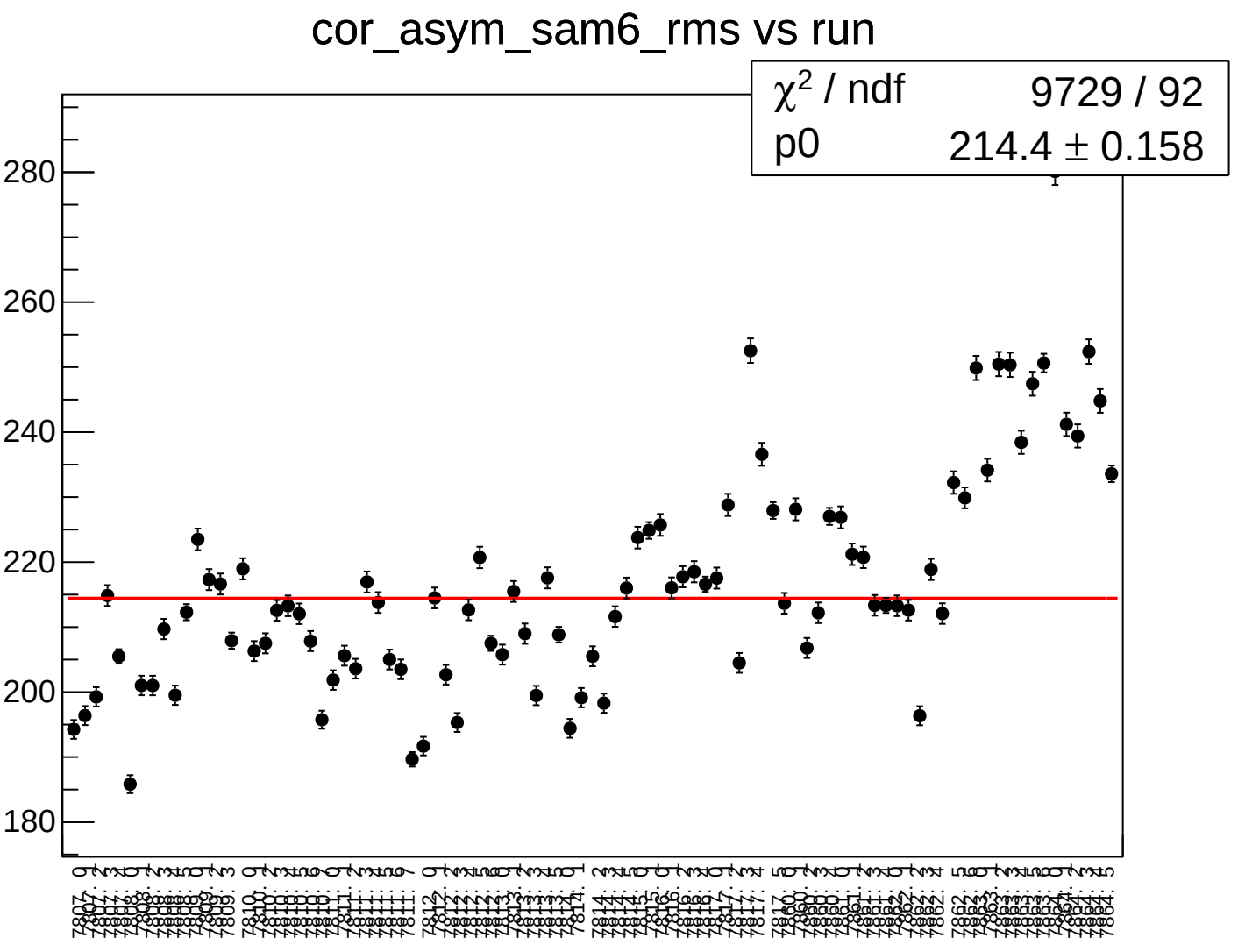

asym_sam6_reg_correction_mean vs run
χ² / ndf 90.65 / 92
p0 131.7 ± 2121
pull
Entries 93
Mean 1.343
Std Dev 65.33

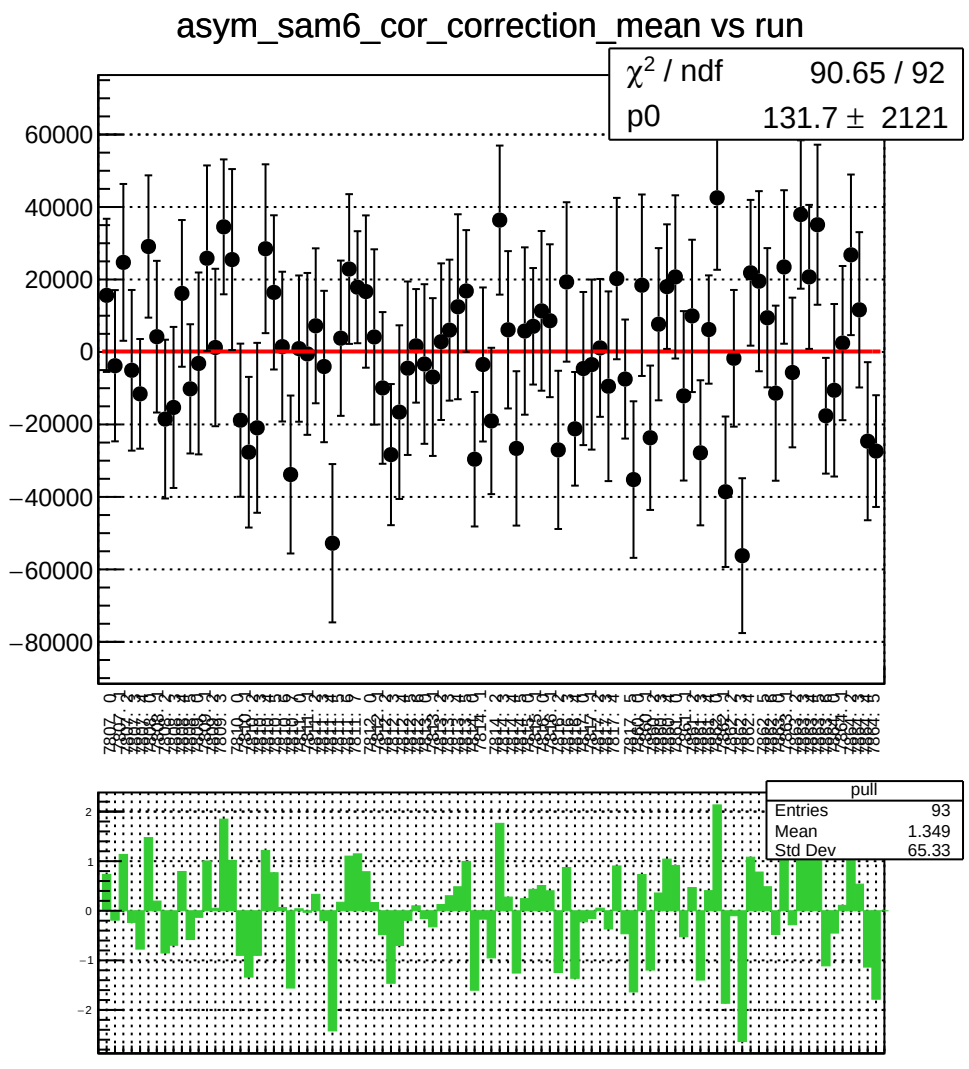

pull1D
Entries 93
Mean 0.00902
Std Dev 0.9872

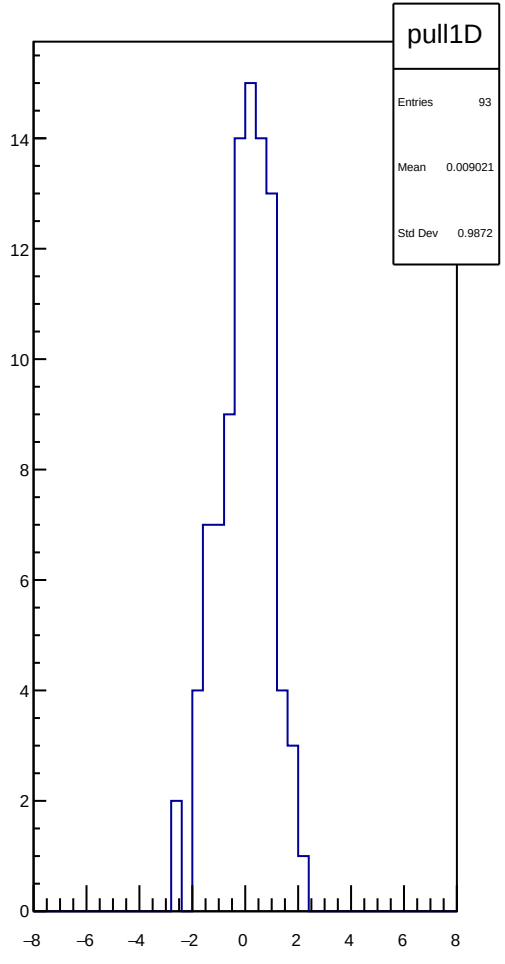

asym_sam6_reg_correction_rms vs run
χ² / ndf 8266 / 92
p0 2036 ± 1.5
2500
2400
2300
2200
2100
2000
1900
1800
1700

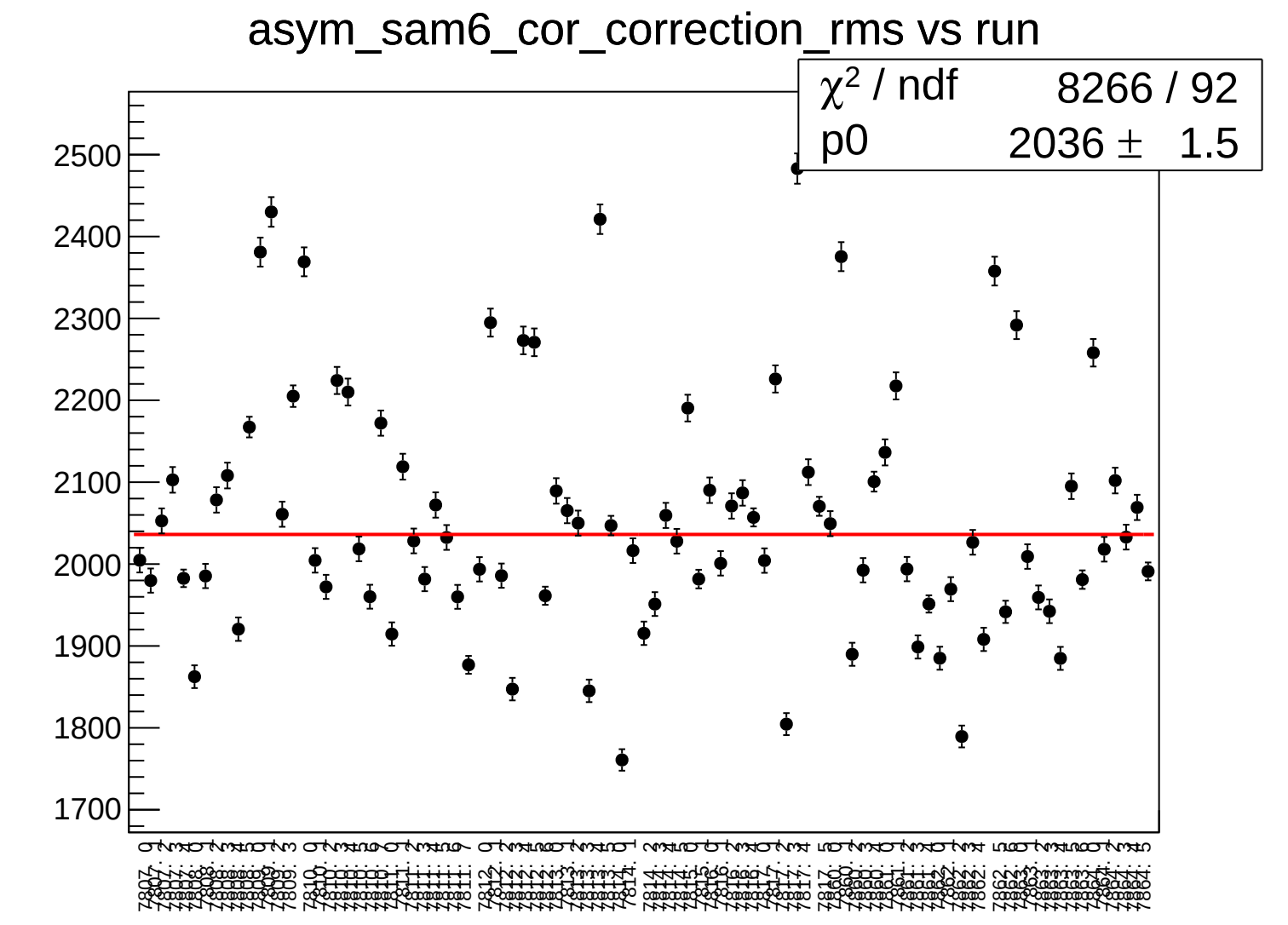

cor_asym_sam6_mean vs run
χ² / ndf 106.8 / 92
p0 −110 ± 223.4
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 93
Mean 187.9
Std Dev 0
2
1
0
−1
−2

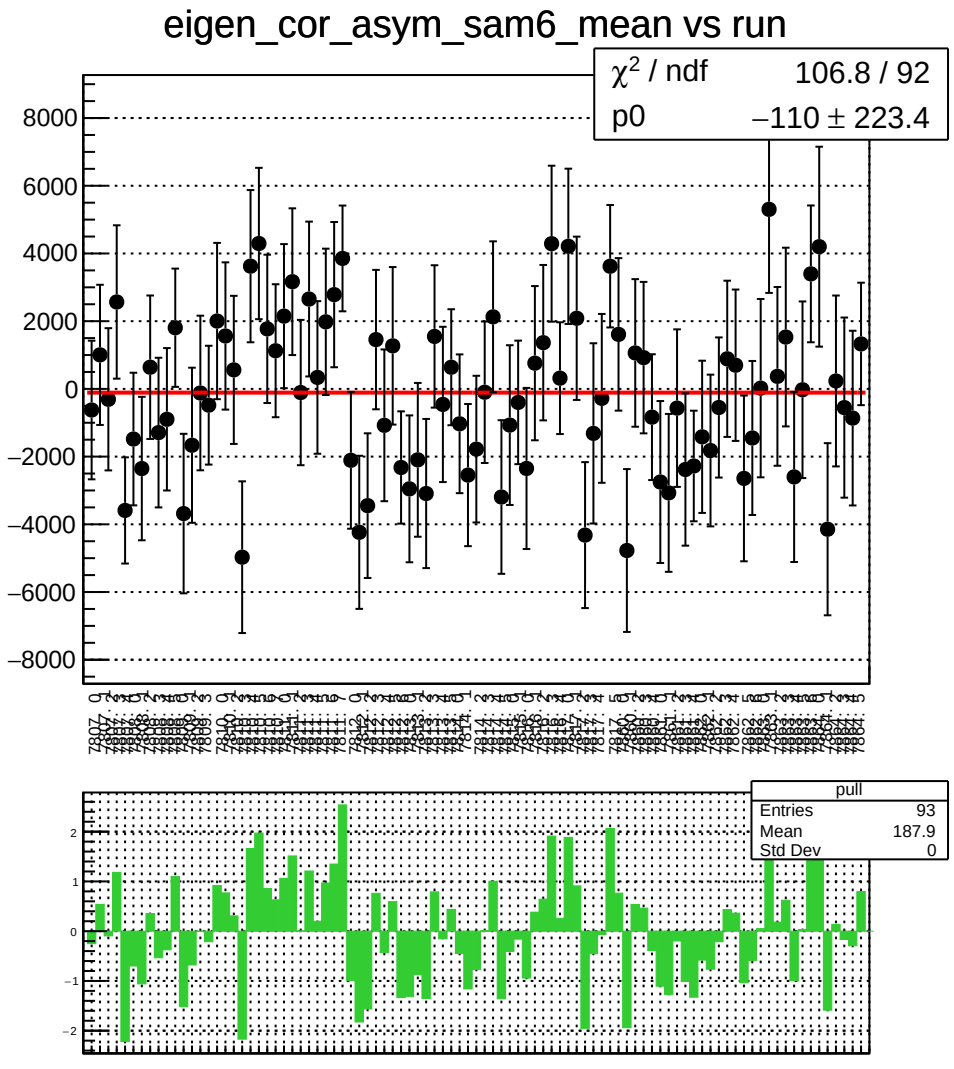

pull1D
Entries 93
Mean −0.003058
Std Dev 1.071
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

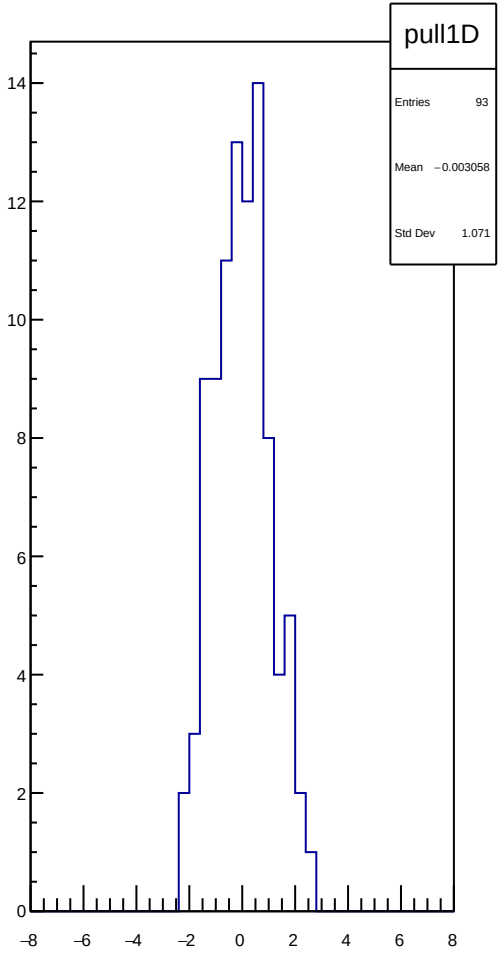

cor_asym_sam6_rms vs run
χ^2 / ndf 9729 / 92
p0 214.4 ± 0.158
280
260
240
220
200
180

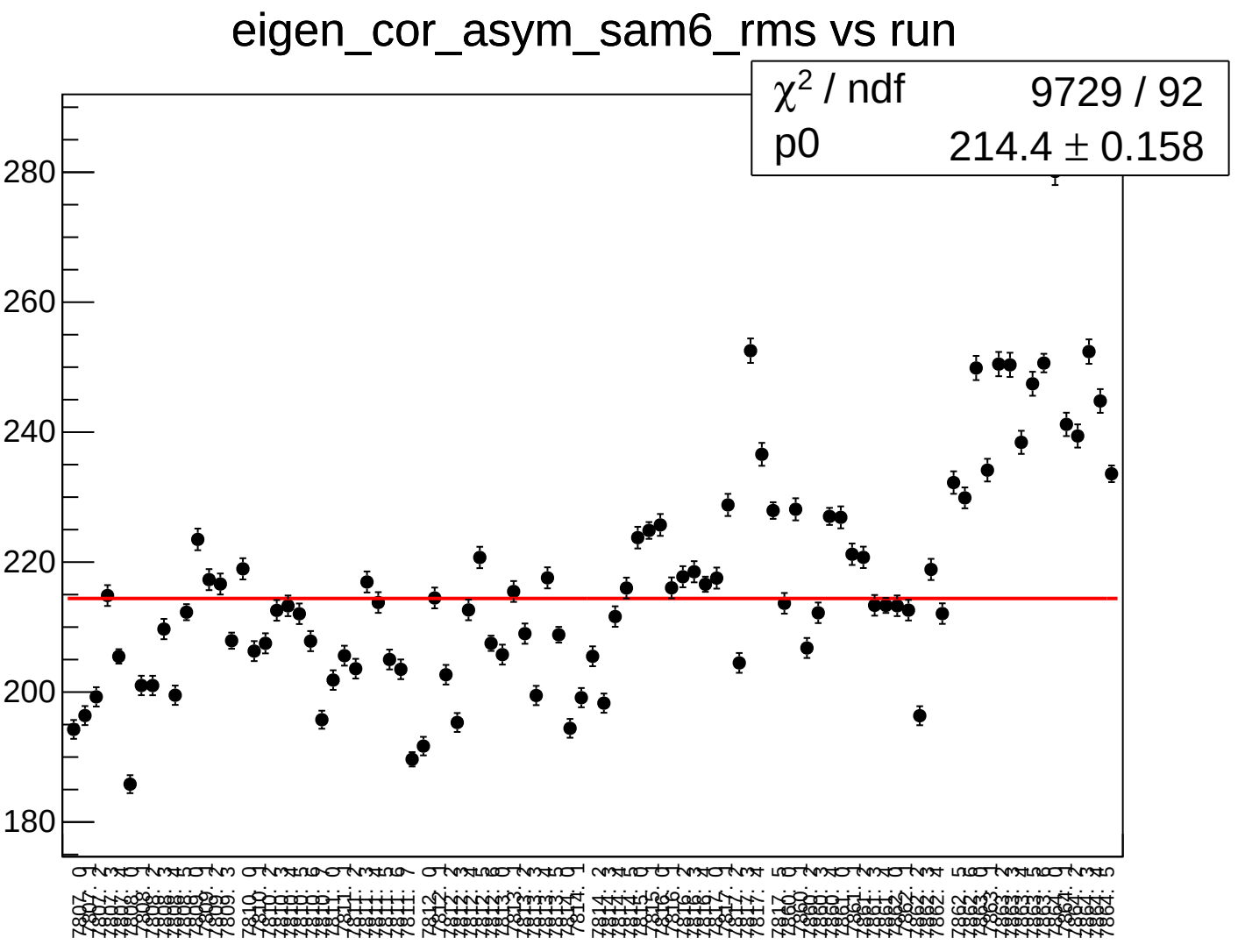

asym_sam6_cor_correction_mean vs run
χ² / ndf 90.65 / 92
p0 131.7 ± 2121
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean 1.349
Std Dev 65.33
2
1
0
−1
−2

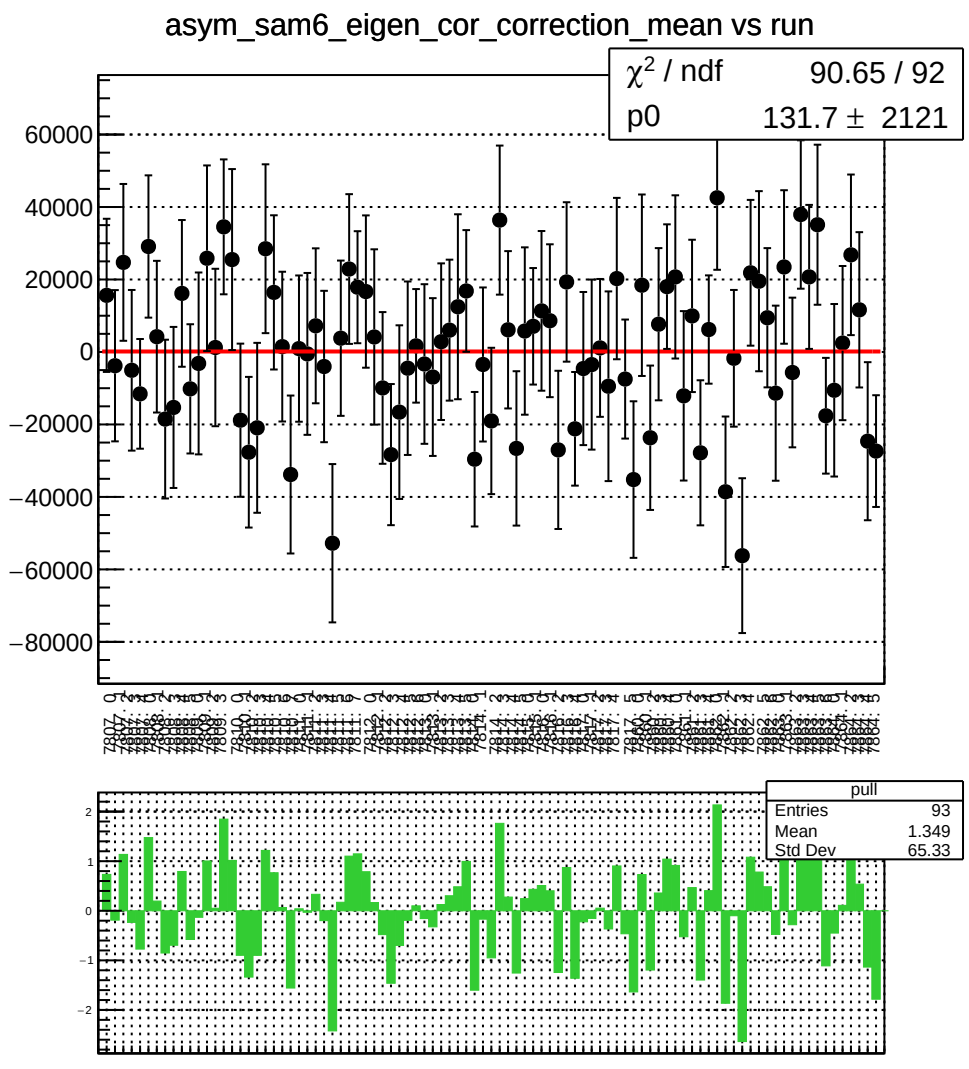

pull1D
Entries 93
Mean 0.009021
Std Dev 0.9872
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

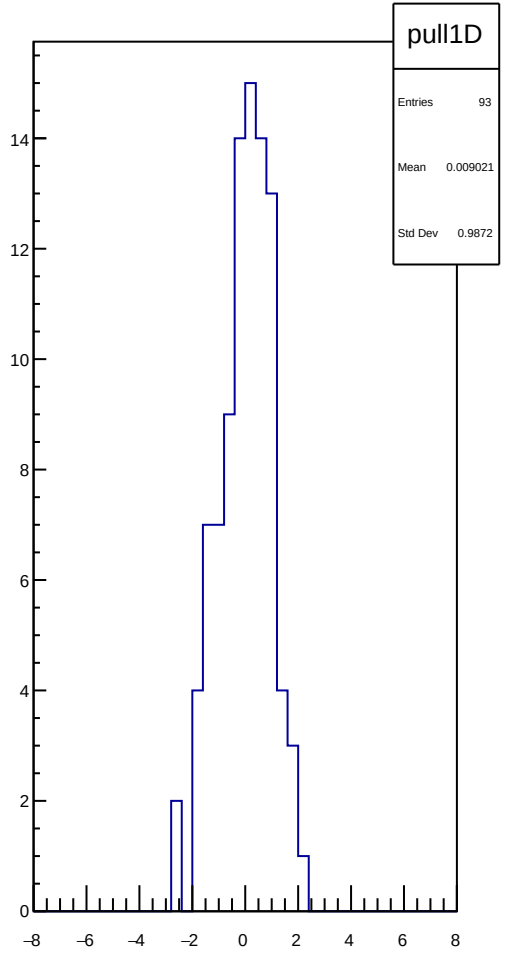

asym_sam6_cor_correction_rms vs run
χ² / ndf 8266 / 92
p0 2036 ± 1.5
2500
2400
2300
2200
2100
2000
1900
1800
1700

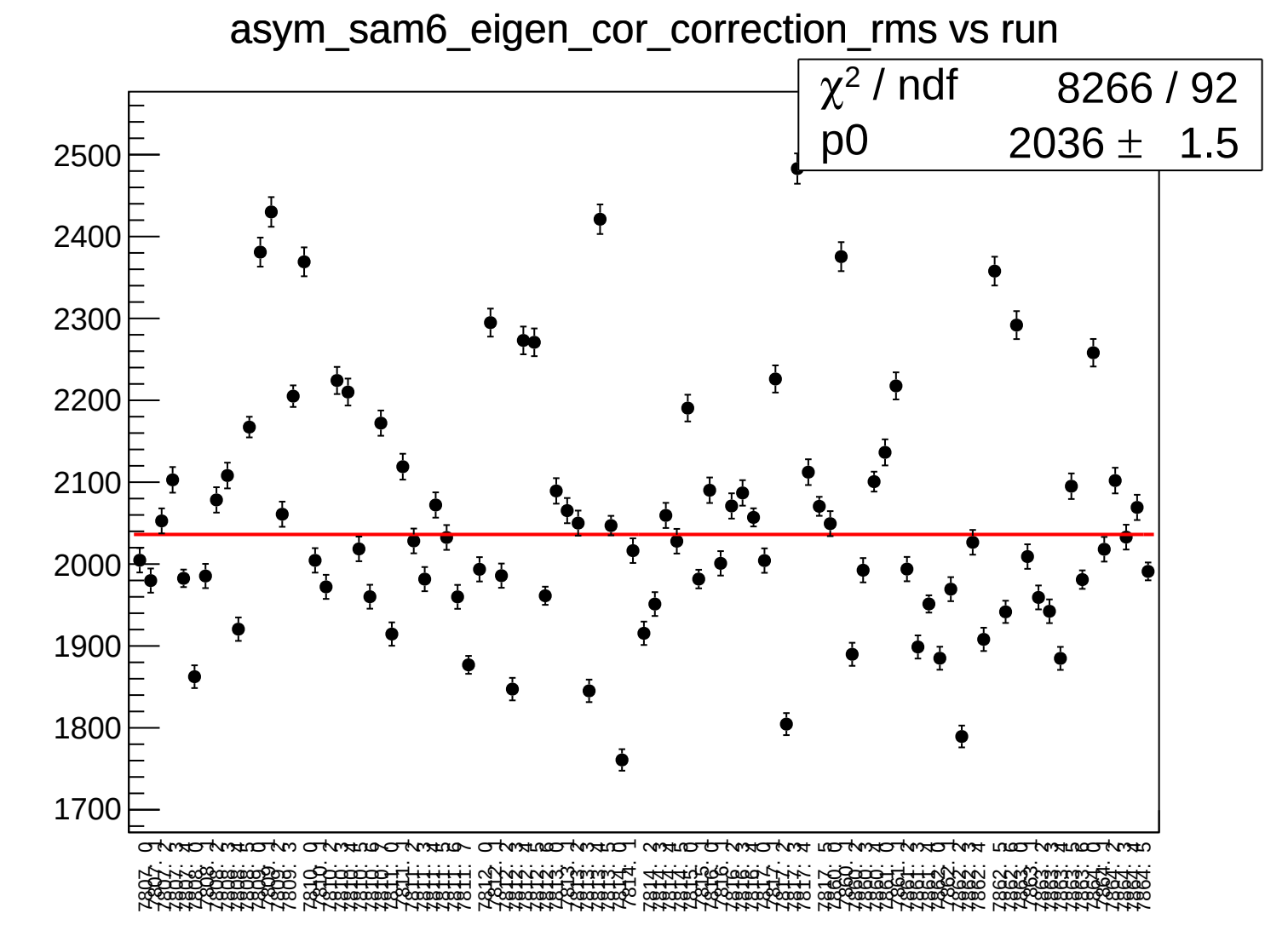

eigen_cor_asym_sam6_mean vs run
χ² / ndf 106.8 / 92
p0 −110 ± 223.4
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 93
Mean 187.9
Std Dev 0
2
1
0
−1
−2

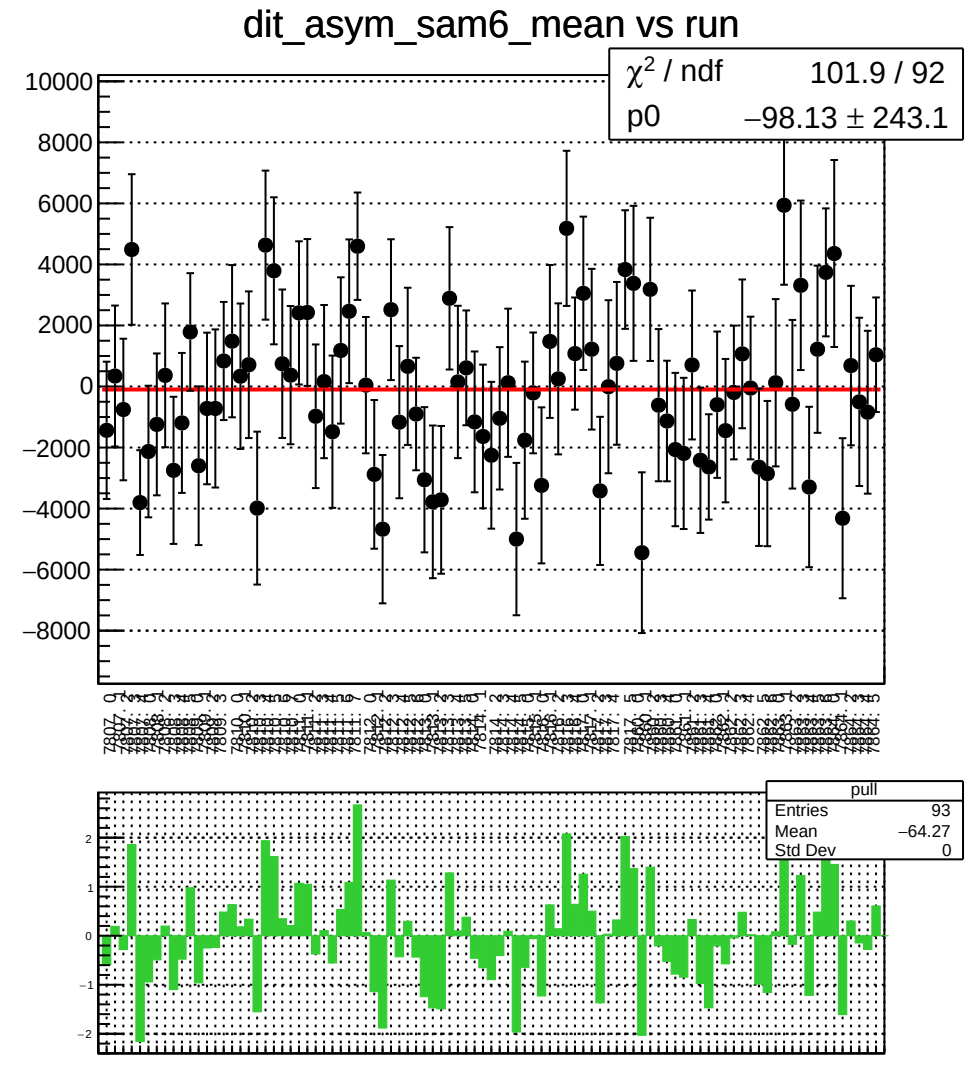

pull1D
Entries 93
Mean −0.003058
Std Dev 1.071
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

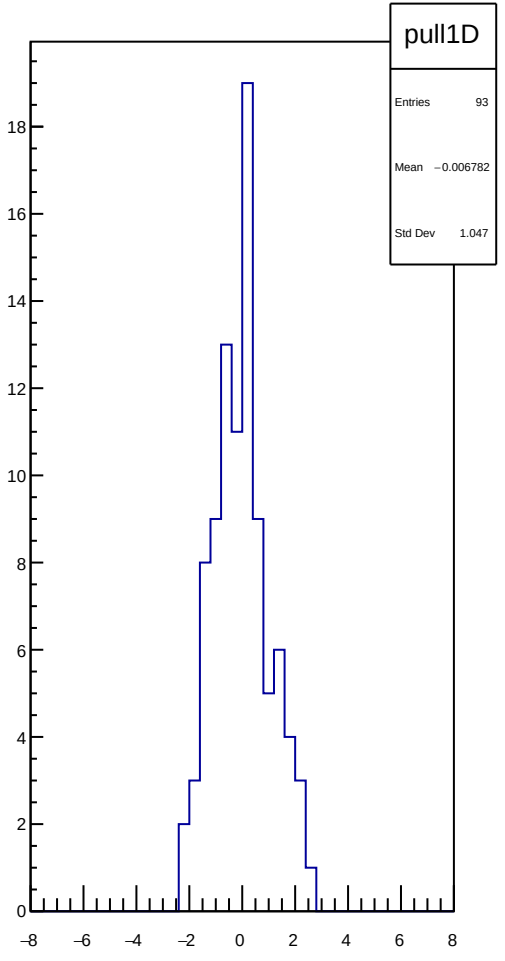

eigen_cor_asym_sam6_rms vs run
χ^2 / ndf 9729 / 92
p0 214.4 ± 0.158
280
260
240
220
200
180

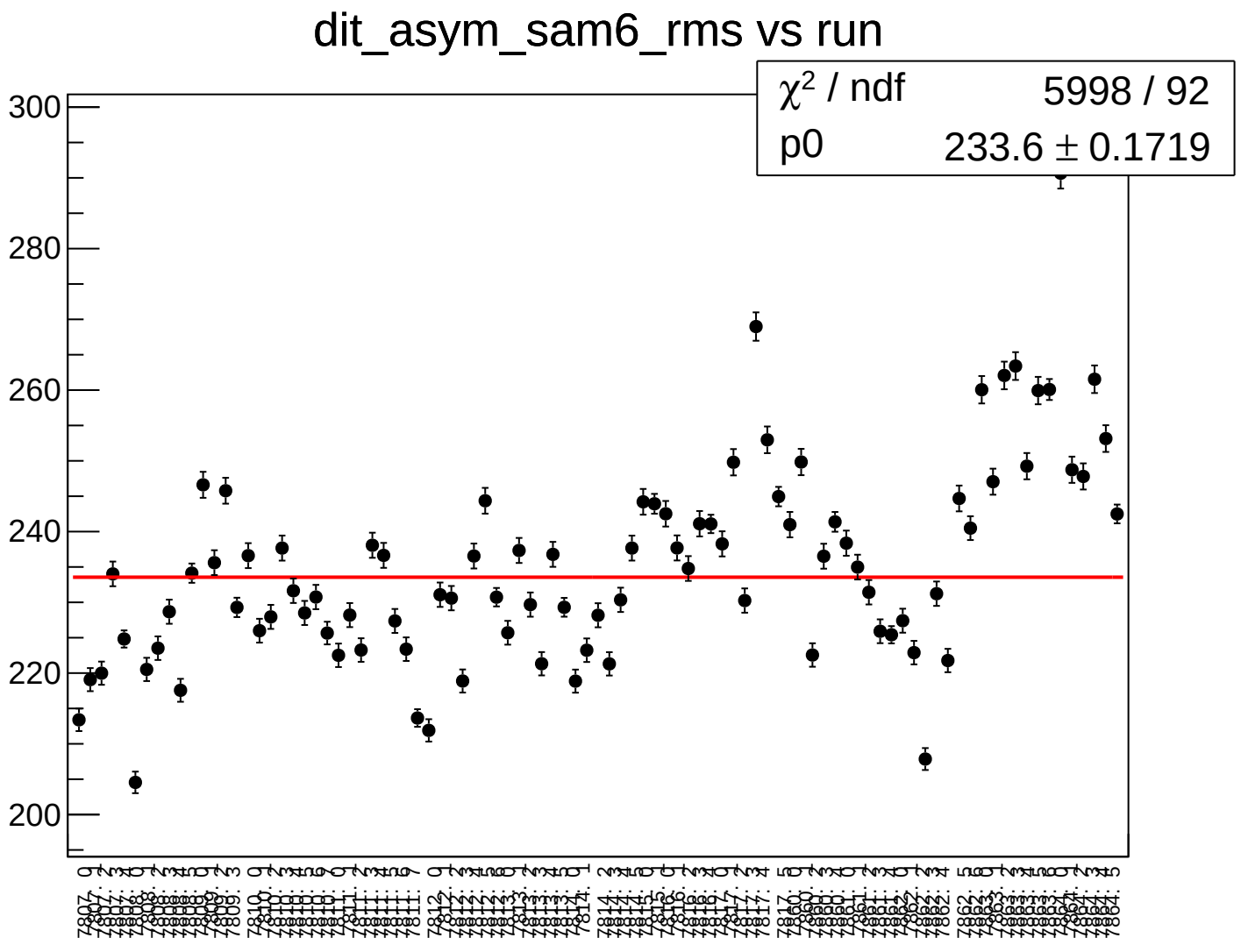

asym_sam6_eigen_cor_correction_mean vs run
χ² / ndf 90.65 / 92
p0 131.7 ± 2121
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean 1.349
Std Dev 65.33
2
1
0
−1
−2

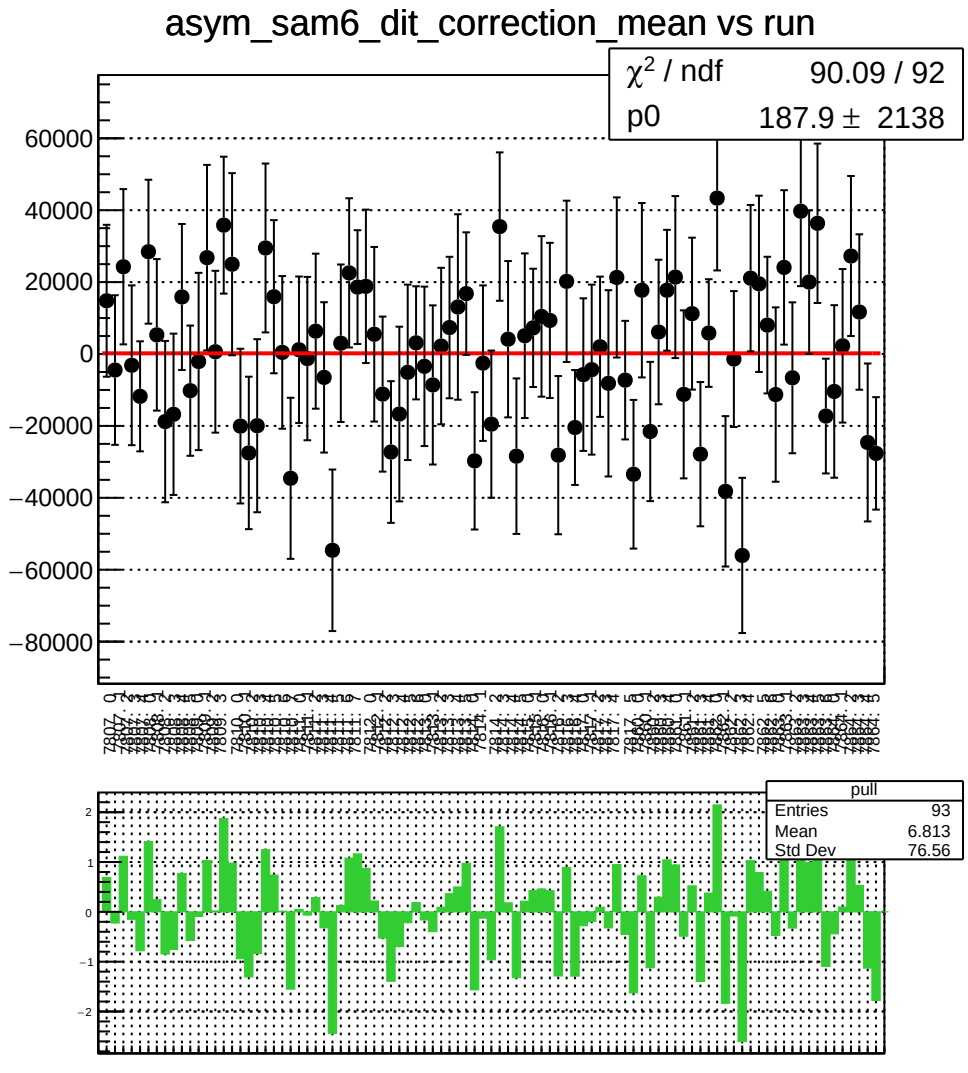

pull1D
Entries 93
Mean 0.009021
Std Dev 0.9872
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

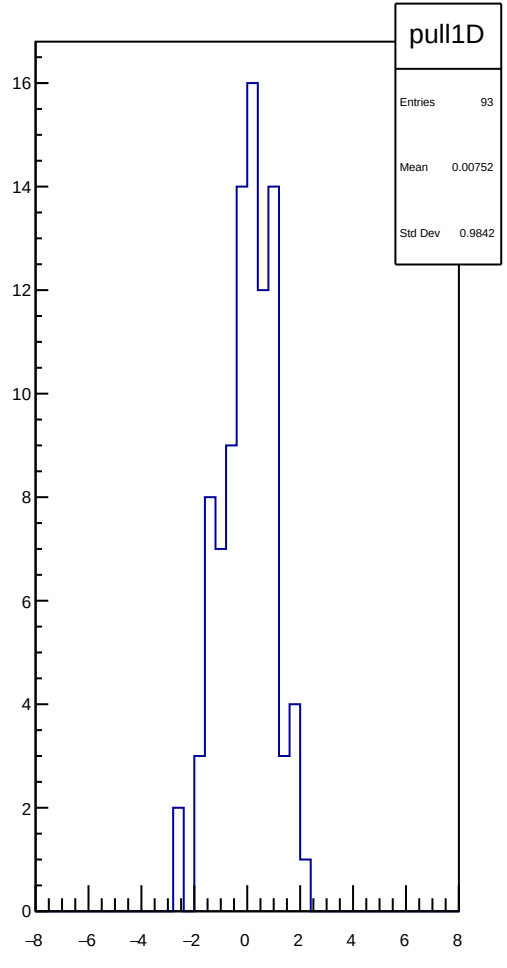

asym_sam6_eigen_cor_correction_rms vs run
χ² / ndf 8266 / 92
p0 2036 ± 1.5
2500
2400
2300
2200
2100
2000
1900
1800
1700

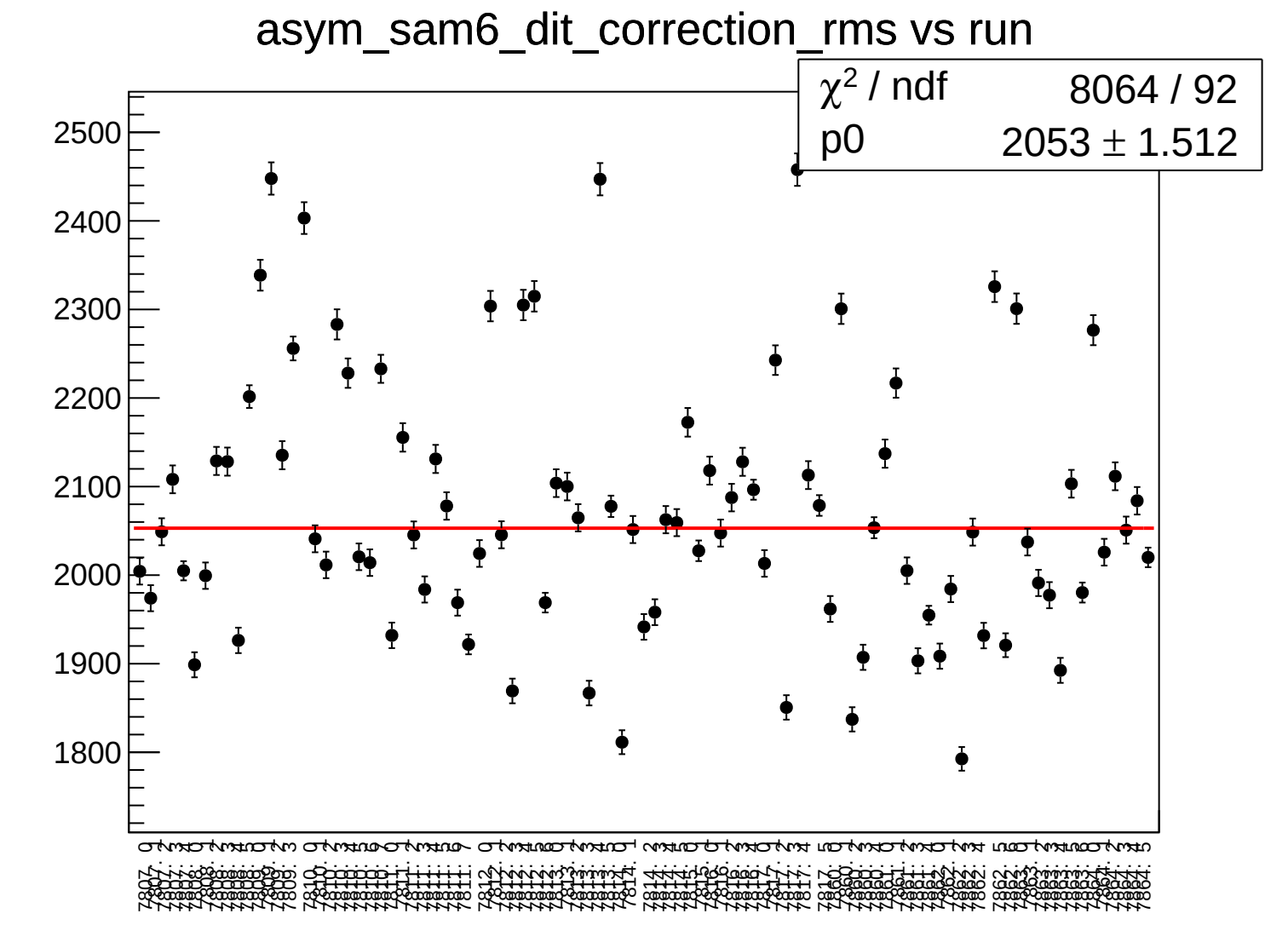

dit_asym_sam6_mean vs run
χ² / ndf 101.9 / 92
p0 −98.13 ± 243.1
pull
Entries 93
Mean −64.27
Std Dev 0

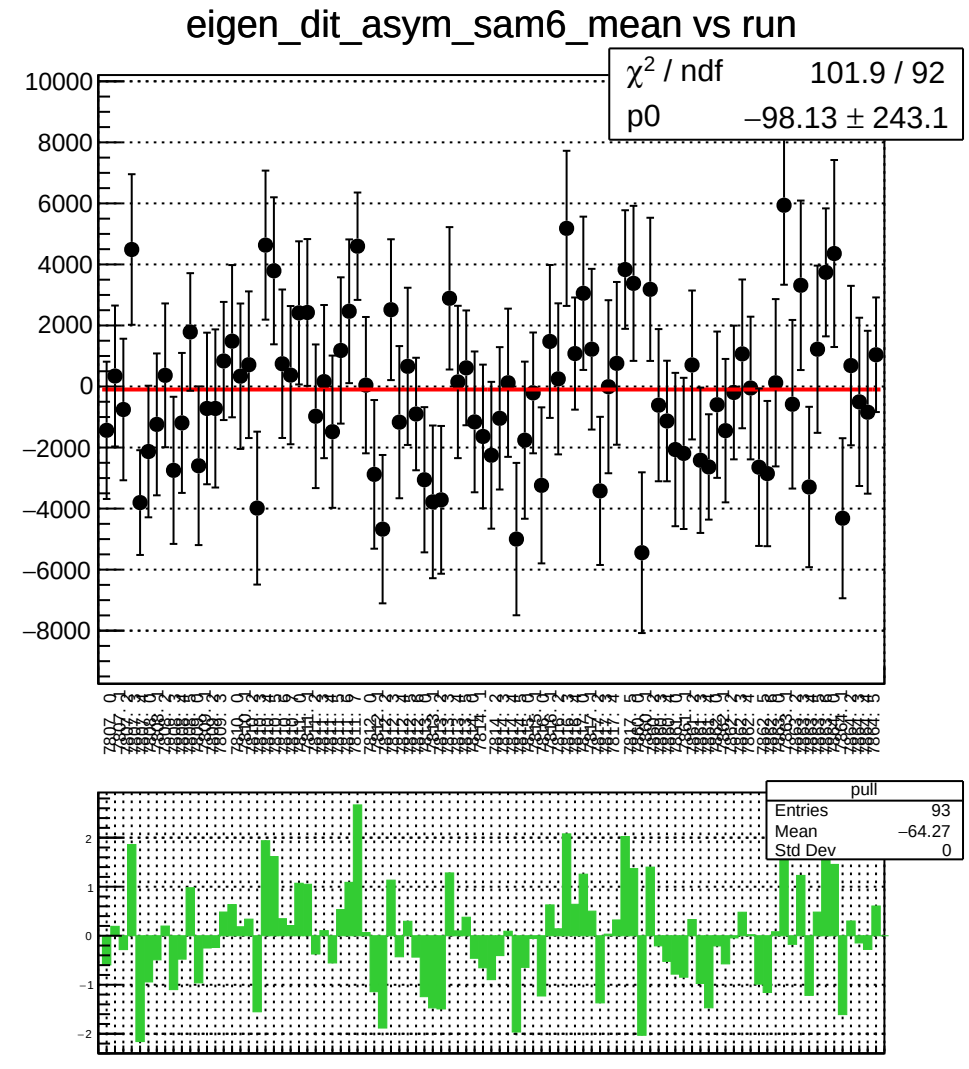

pull1D
Entries 93
Mean −0.006782
Std Dev 1.047

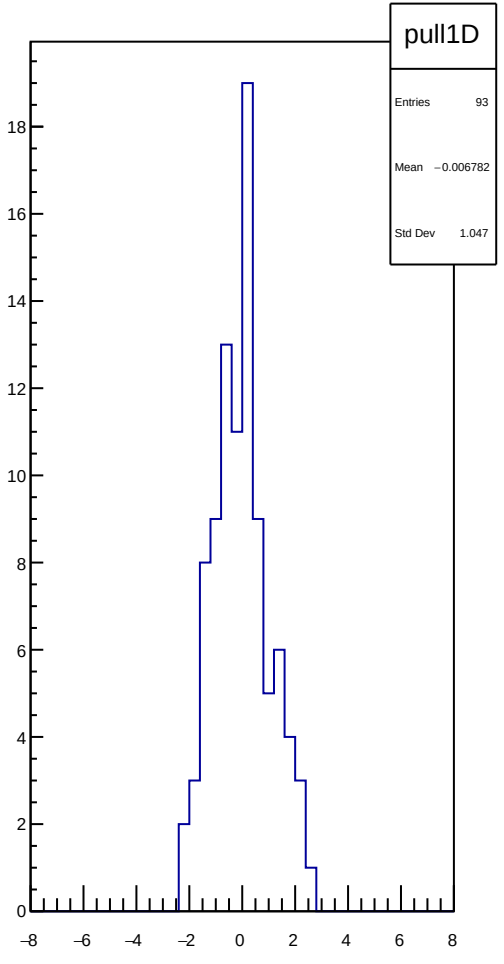

dit_asym_sam6_rms vs run
χ² / ndf 5998 / 92
p0 233.6 ± 0.1719
300
280
260
240
220
200

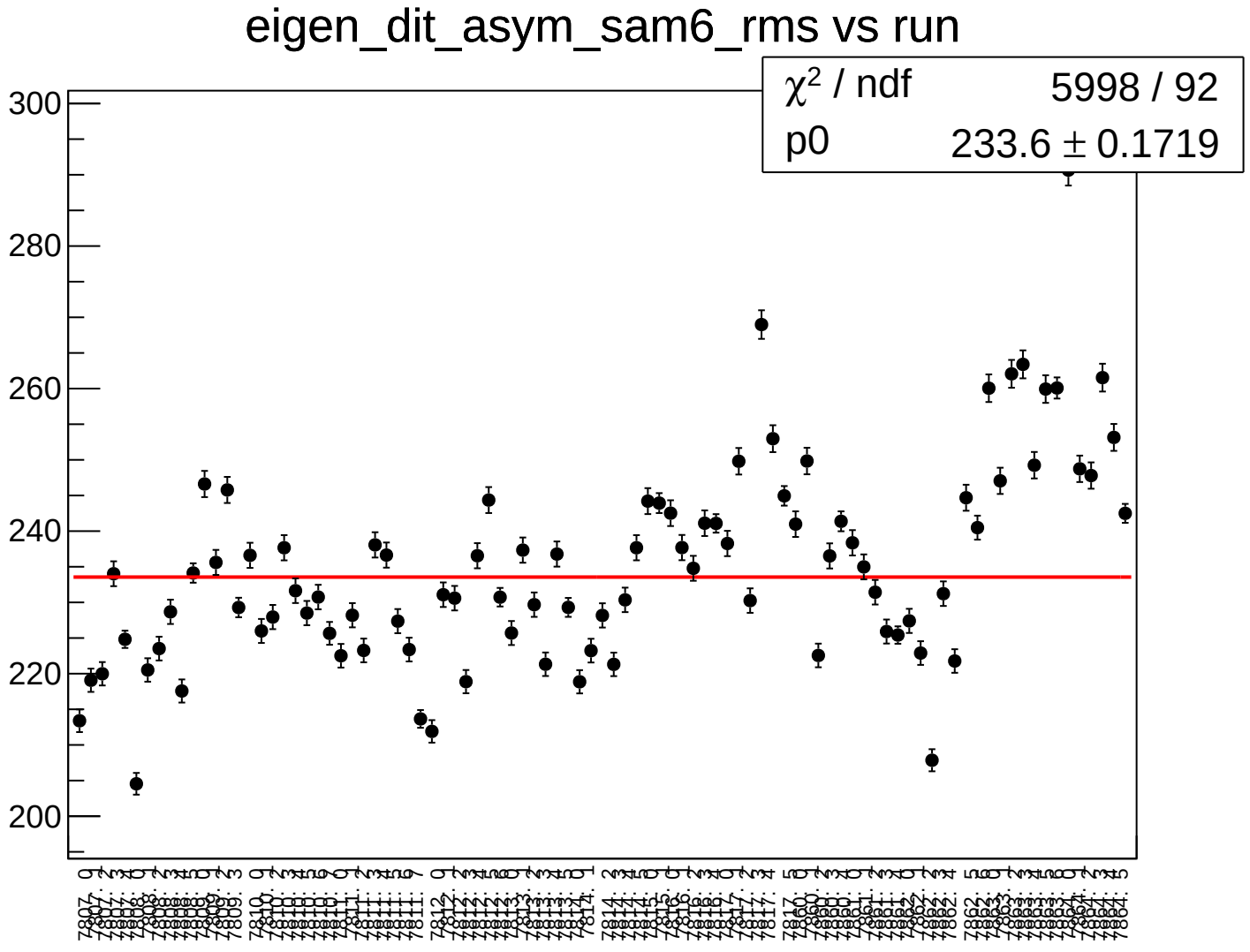

asym_sam6_dit_correction_mean vs run
χ² / ndf 90.09 / 92
p0 187.9 ± 2138
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean 6.813
Std Dev 76.56
2
1
0
−1
−2

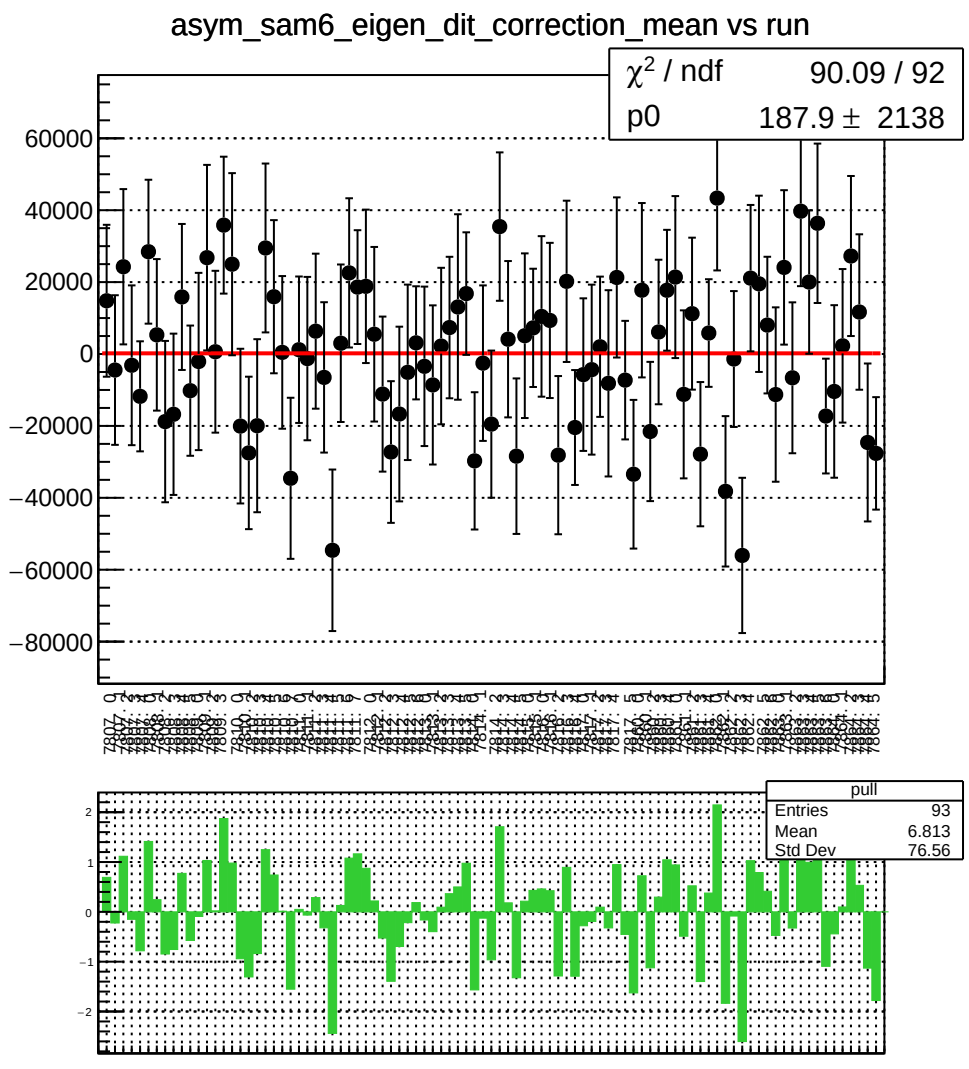

pull1D
Entries 93
Mean 0.00752
Std Dev 0.9842
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

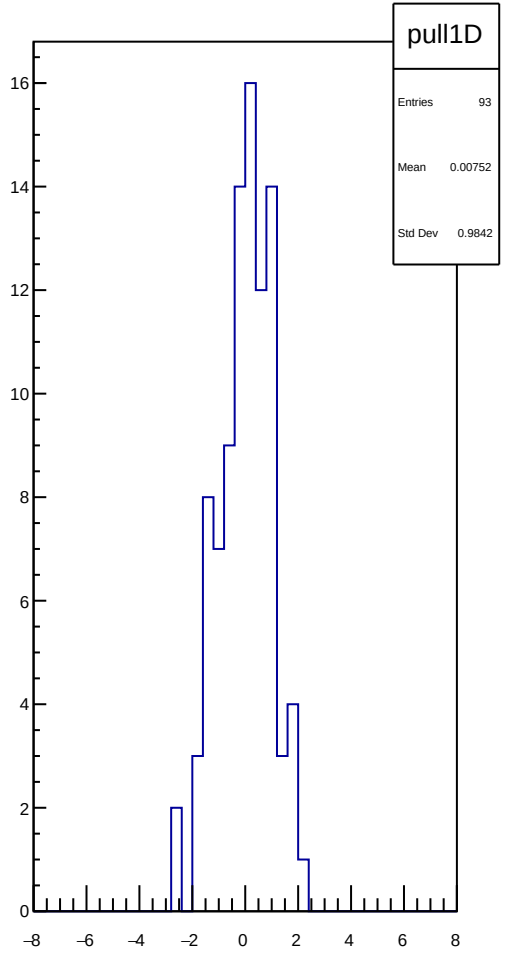

asym_sam6_dit_correction_rms vs run
χ² / ndf 8064 / 92
p0 2053 ± 1.512
2500
2400
2300
2200
2100
2000
1900
1800

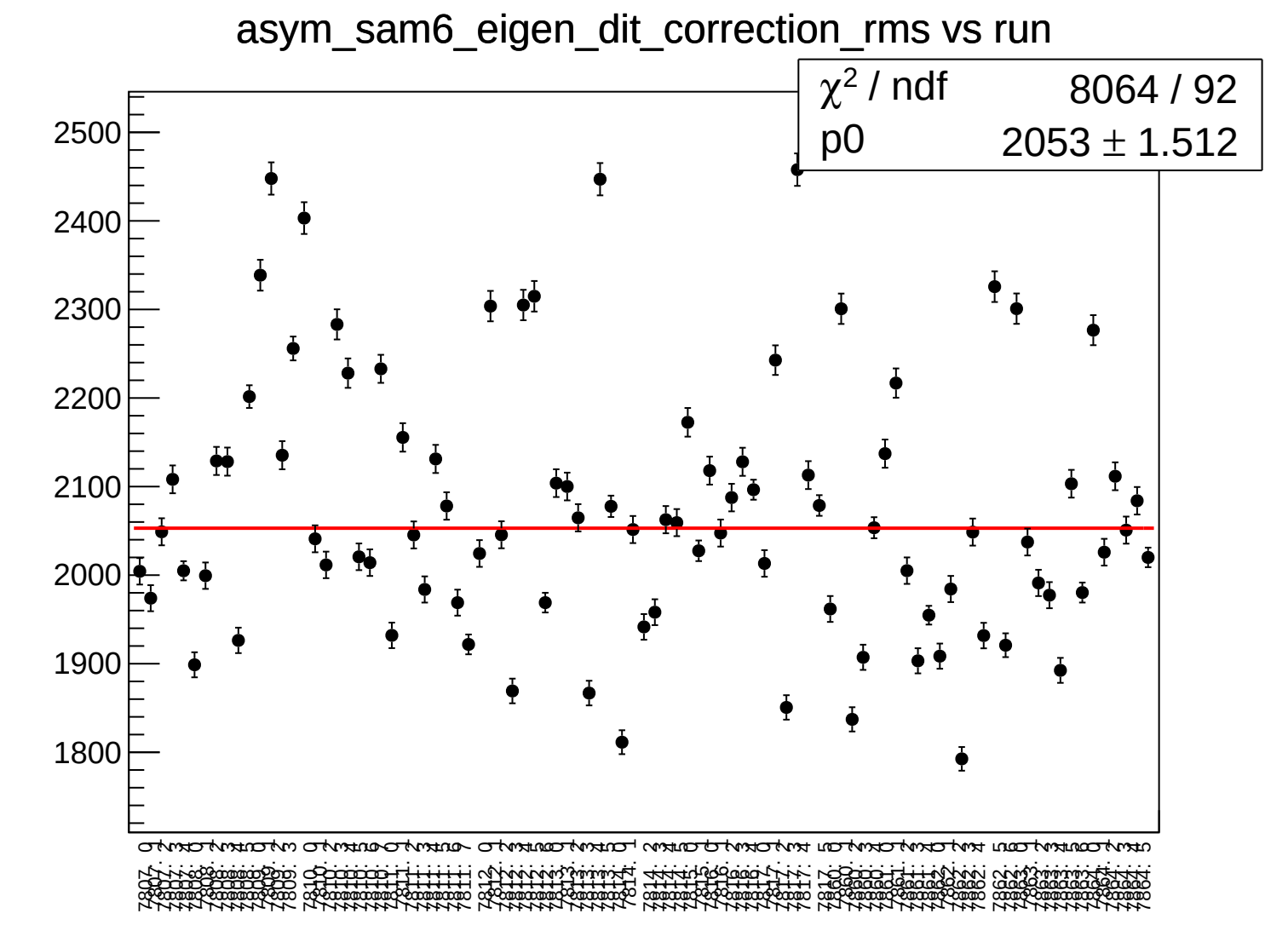

eigen_dit_asym_sam6_mean vs run
χ² / ndf 101.9 / 92
p0 −98.13 ± 243.1
pull
Entries 93
Mean −64.27
Std Dev 0

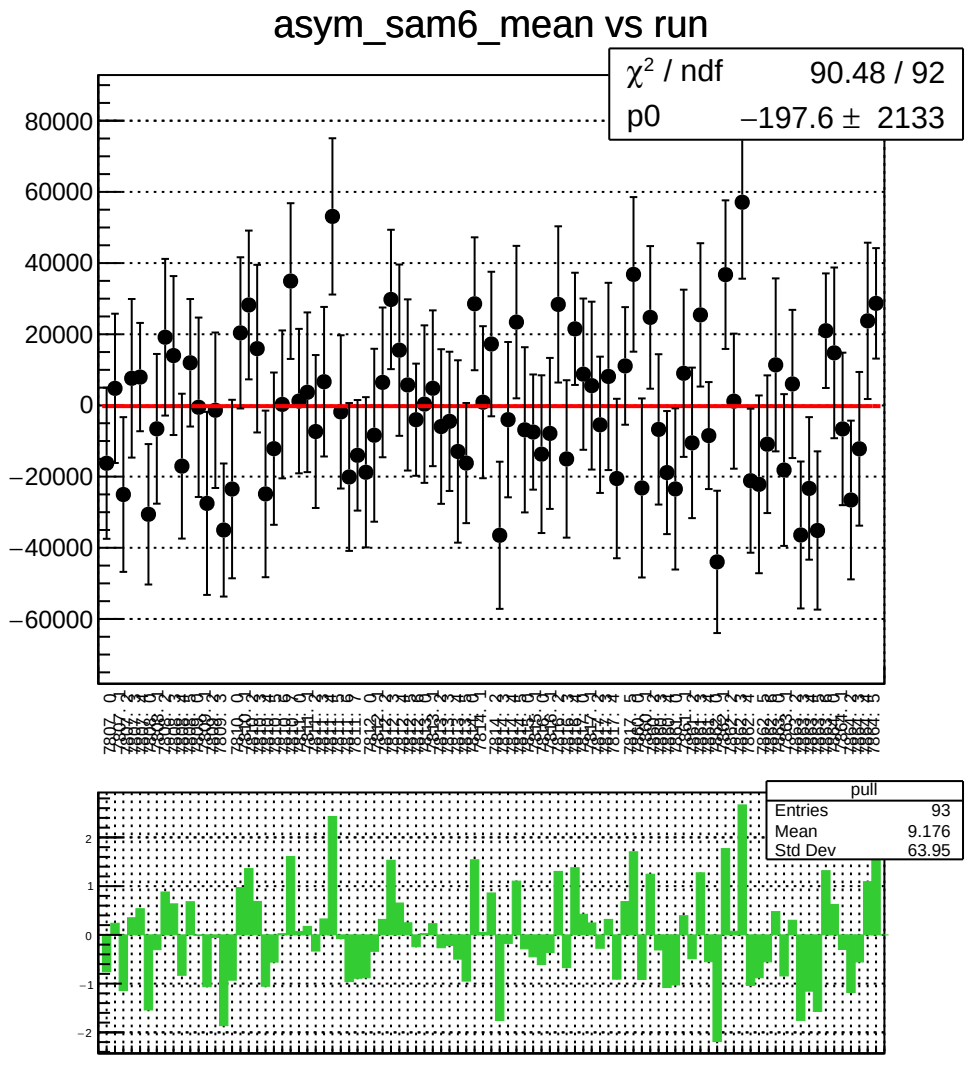

pull1D
Entries 93
Mean −0.006782
Std Dev 1.047

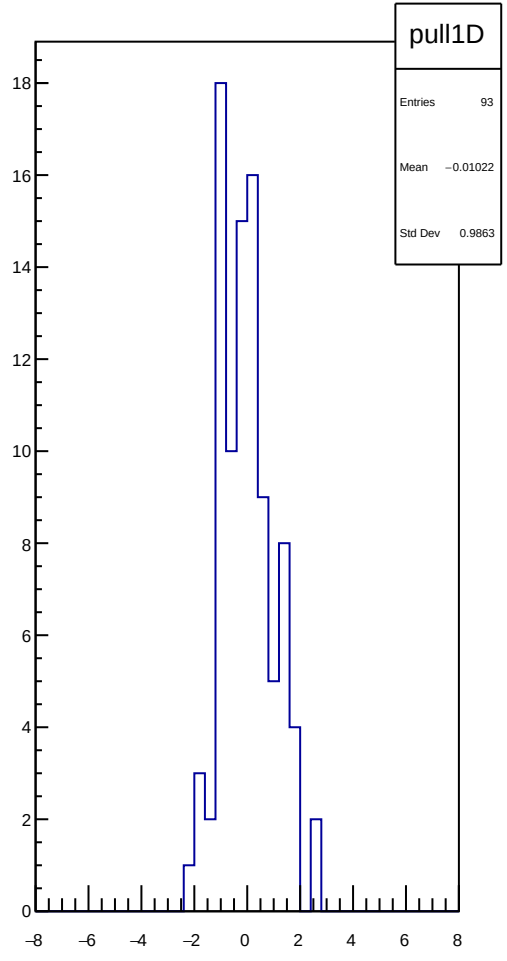

eigen_dit_asym_sam6_rms vs run
χ² / ndf 5998 / 92
p0 233.6 ± 0.1719
300
280
260
240
220
200

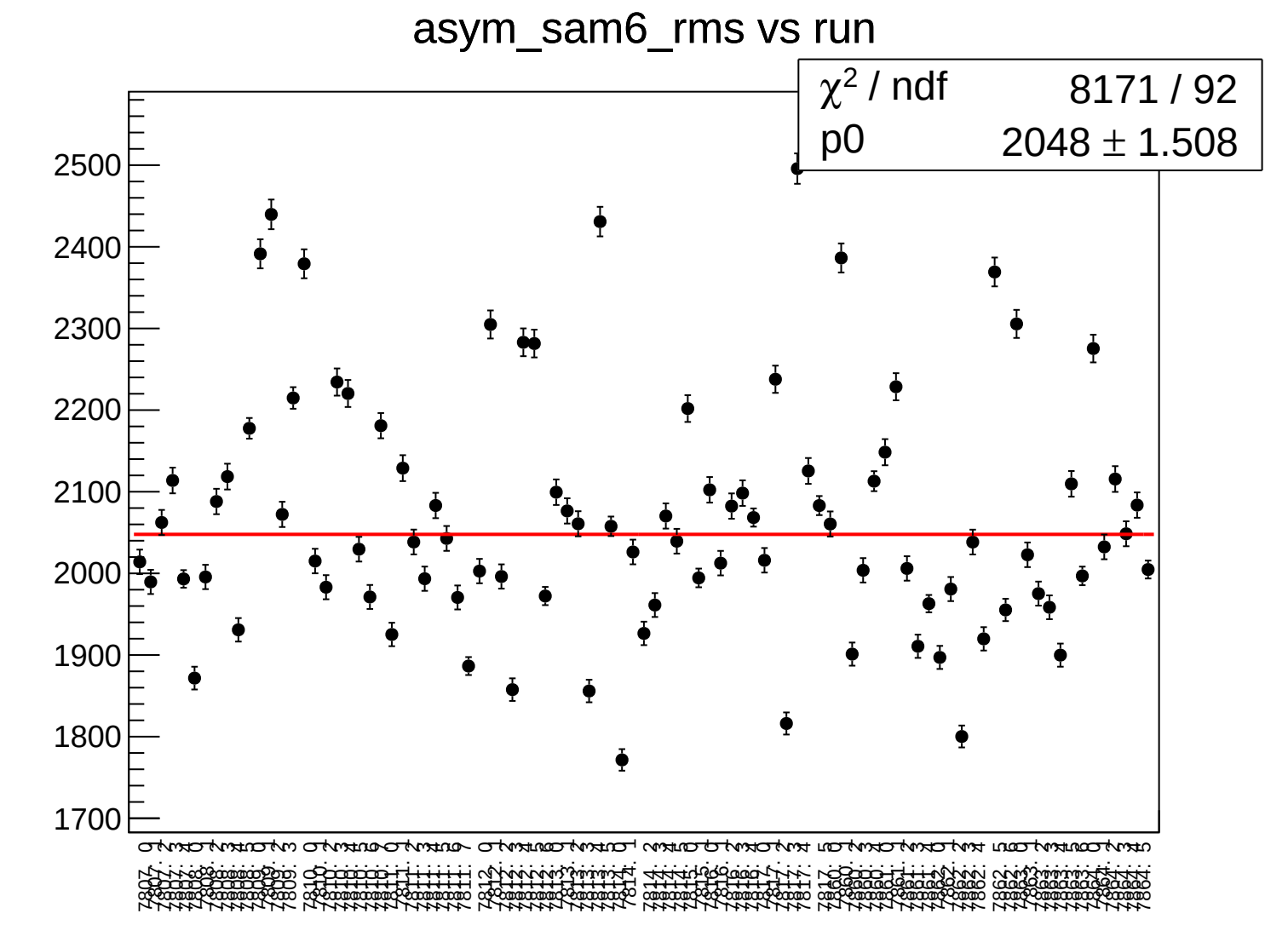

asym_sam6_eigen_dit_correction_mean vs run
χ² / ndf 90.09 / 92
p0 187.9 ± 2138
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean 6.813
Std Dev 76.56
2
1
0
−1
−2

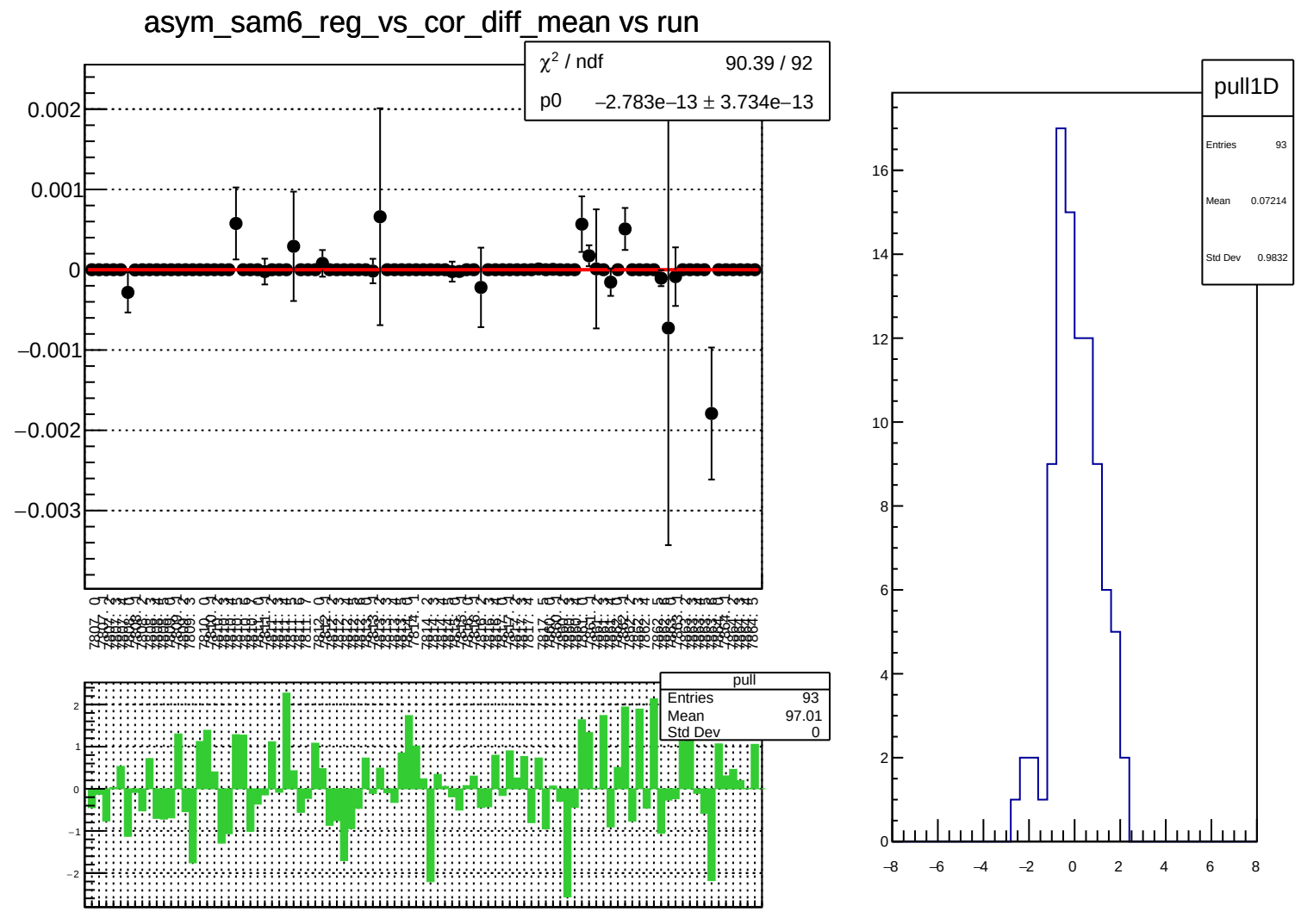

pull1D
Entries 93
Mean 0.00752
Std Dev 0.9842
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

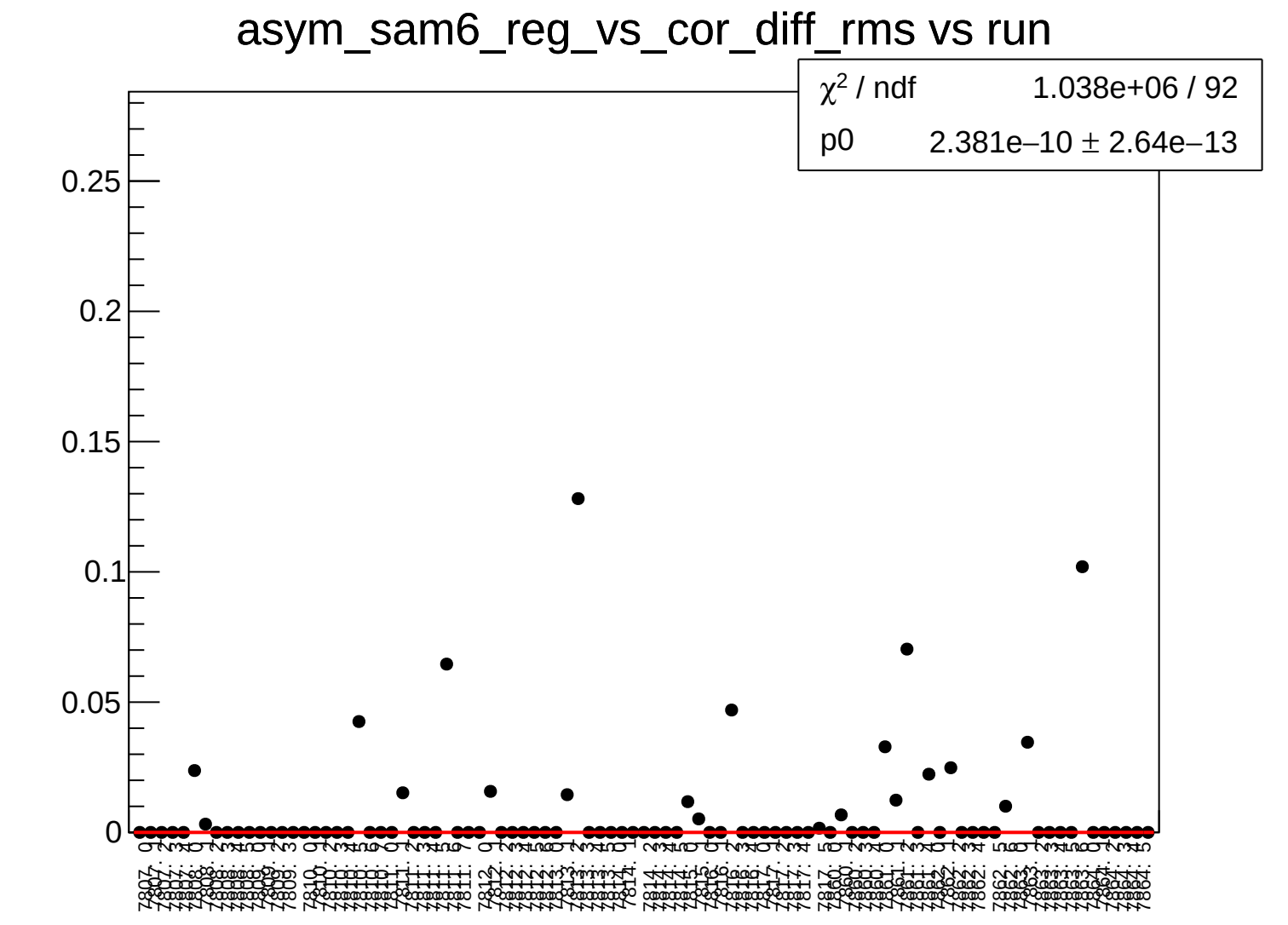

asym_sam6_eigen_dit_correction_rms vs run
χ² / ndf 8064 / 92
p0 2053 ± 1.512
2500
2400
2300
2200
2100
2000
1900
1800

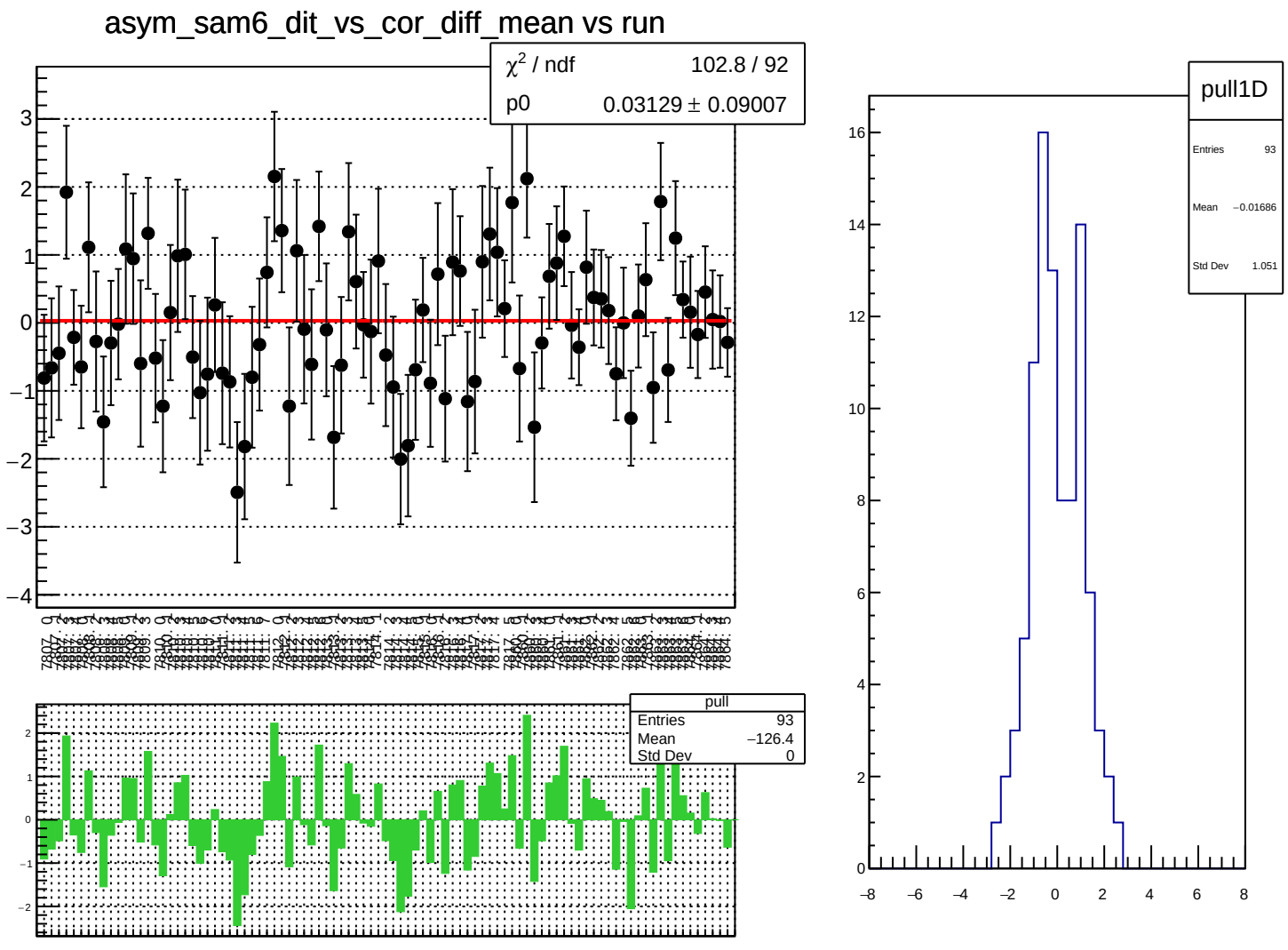

asym_sam6_mean vs run
χ² / ndf 90.48 / 92
p0 −197.6 ± 2133
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 9.176
Std Dev 63.95
2
1
0
−1
−2

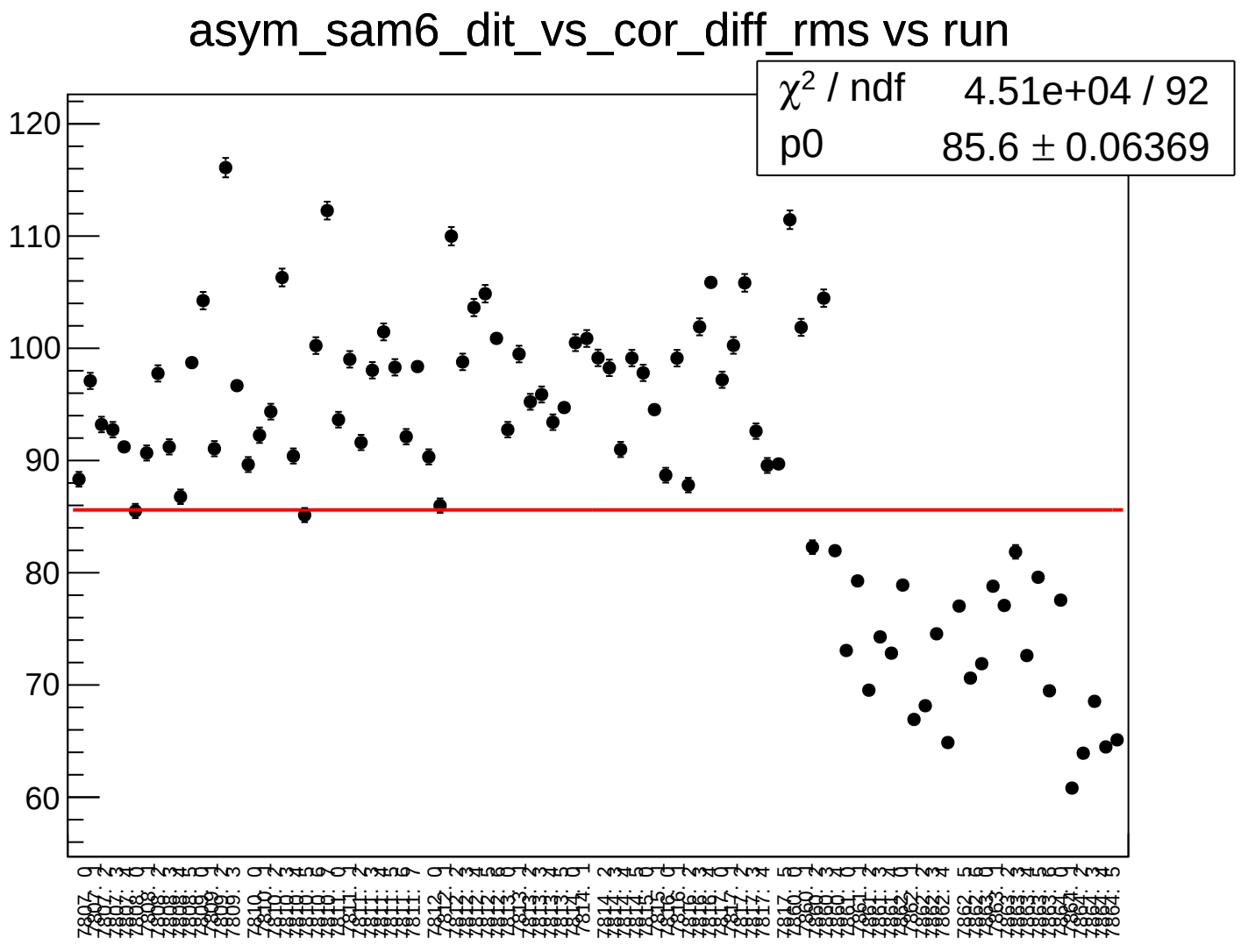

pull1D
Entries 93
Mean −0.01022
Std Dev 0.9863
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

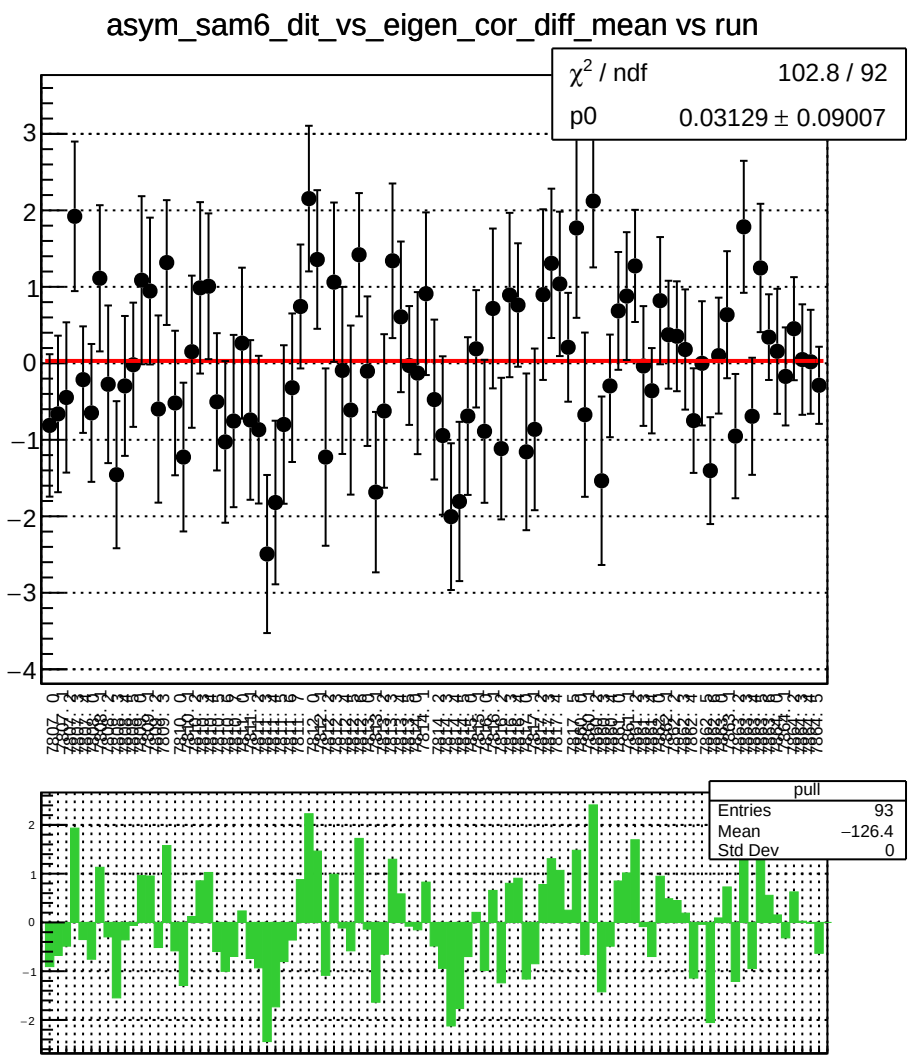

asym_sam6_rms vs run
χ² / ndf 8171 / 92
p0 2048 ± 1.508
2500
2400
2300
2200
2100
2000
1900
1800
1700

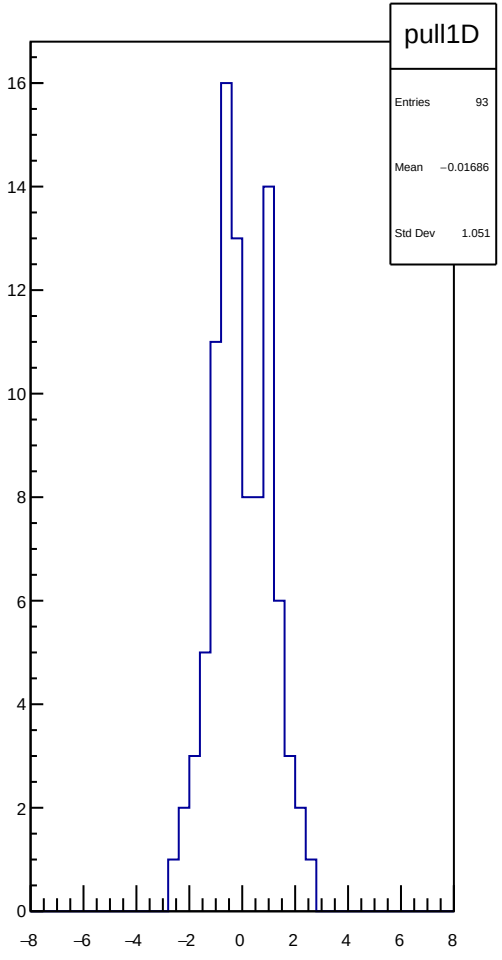

asym_sam6_reg_vs_cor_diff_mean vs run
χ² / ndf 90.39 / 92
p0 −2.783e−13 ± 3.734e−13
0.002
0.001
0
−0.001
−0.002
−0.003
pull
Entries 93
Mean 97.01
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.07214
Std Dev 0.9832
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

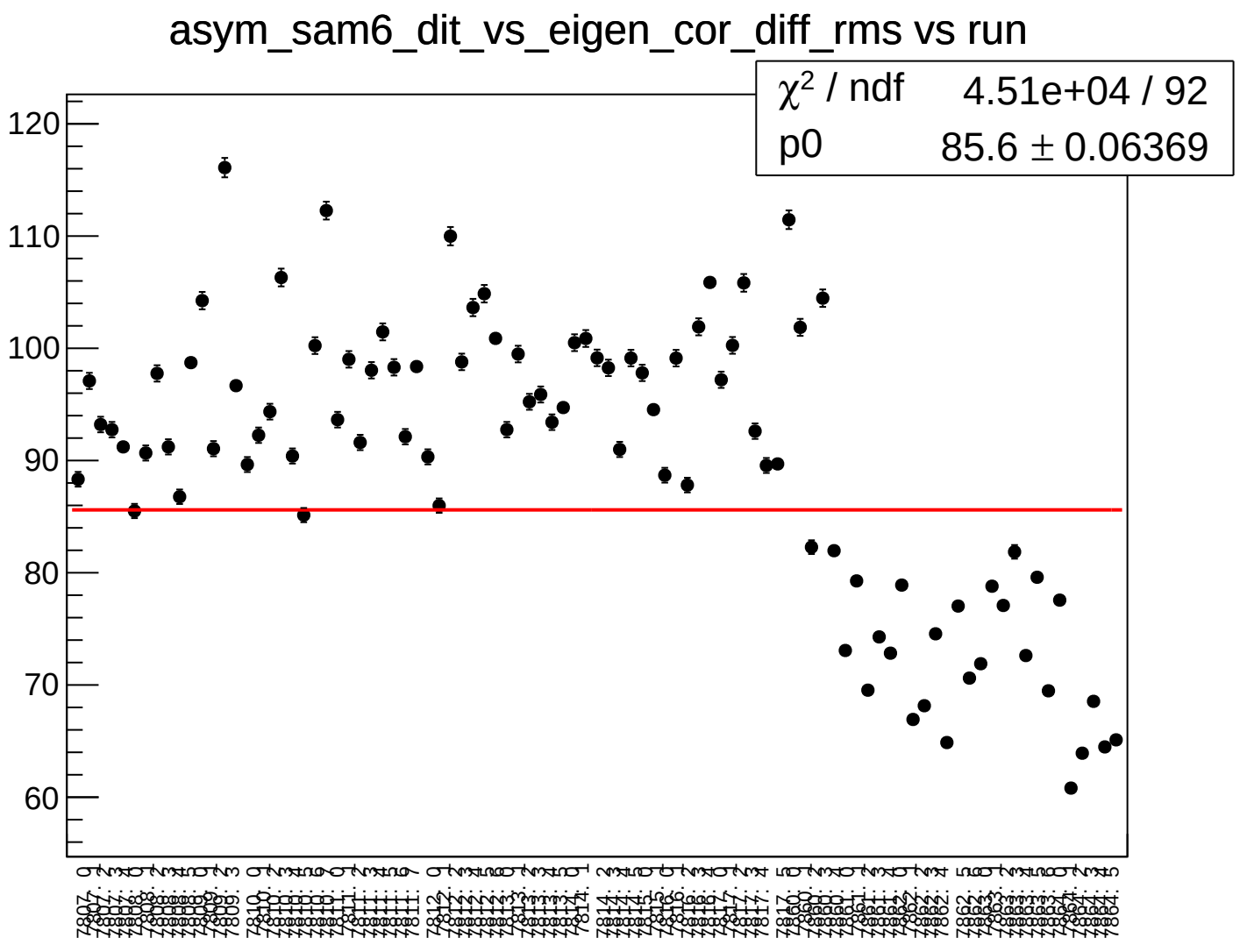

asym_sam6_reg_vs_cor_diff_rms vs run
χ² / ndf 1.038e+06 / 92
p0 2.381e−10 ± 2.64e−13
0.25
0.2
0.15
0.1
0.05
0

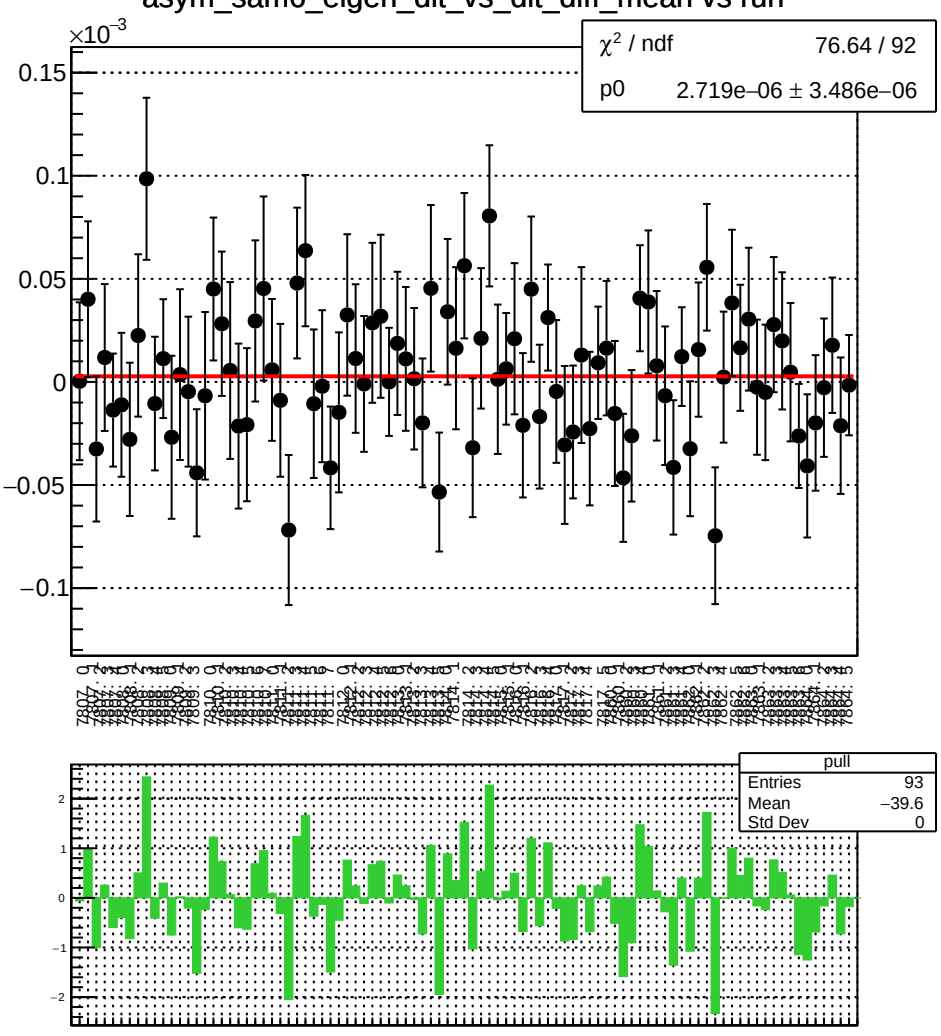

asym_sam6_dit_vs_cor_diff_mean vs run
χ² / ndf 102.8 / 92
p0 0.03129 ± 0.09007
pull
Entries 93
Mean −126.4
Std Dev 0
pull1D
Entries 93
Mean −0.01686
Std Dev 1.051

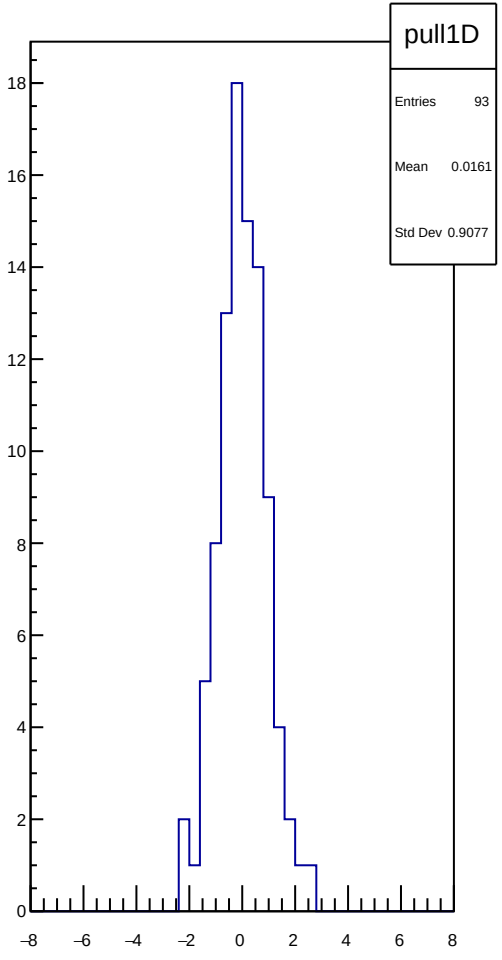

asym_sam6_dit_vs_cor_diff_rms vs run
χ² / ndf 4.51e+04 / 92
p0 85.6 ± 0.06369
120
110
100
90
80
70
60


asym_sam6_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.8 / 92
p0 0.03129 ± 0.09007
pull
Entries 93
Mean −126.4
Std Dev 0

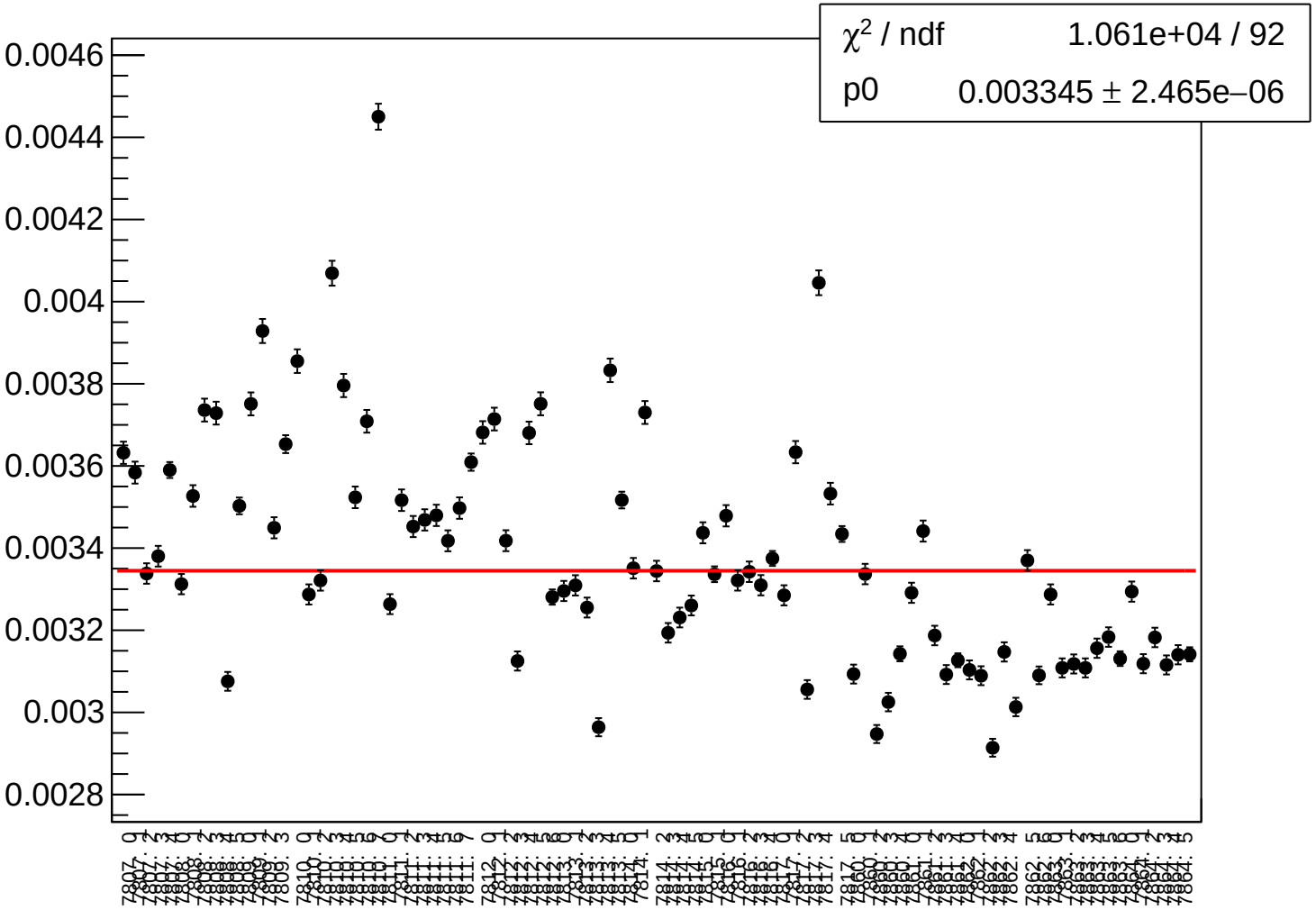

pull1D
Entries 93
Mean −0.01686
Std Dev 1.051

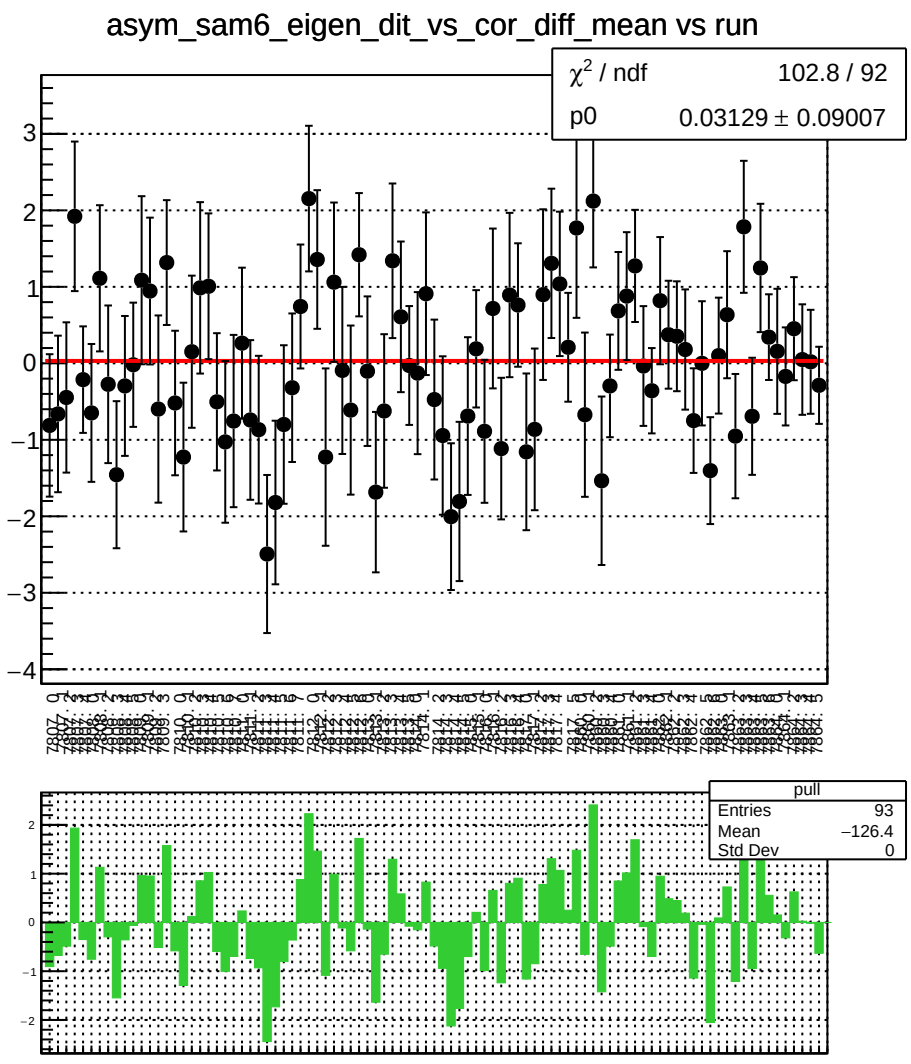

asym_sam6_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.51e+04 / 92
p0 85.6 ± 0.06369
120
110
100
90
80
70
60

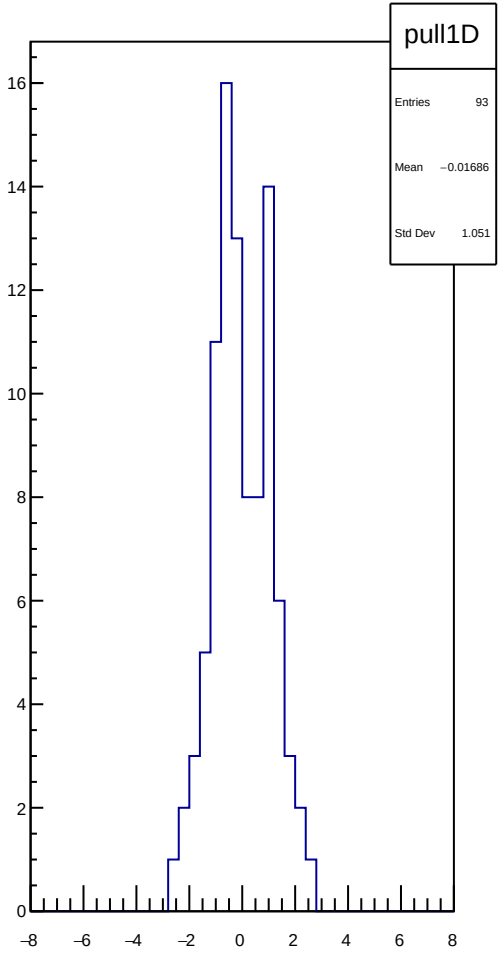

asym_sam6_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 76.64 / 92
p0 2.719e−06 ± 3.486e−06
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 93
Mean −39.6
Std Dev 0
2
1
0
−1
−2

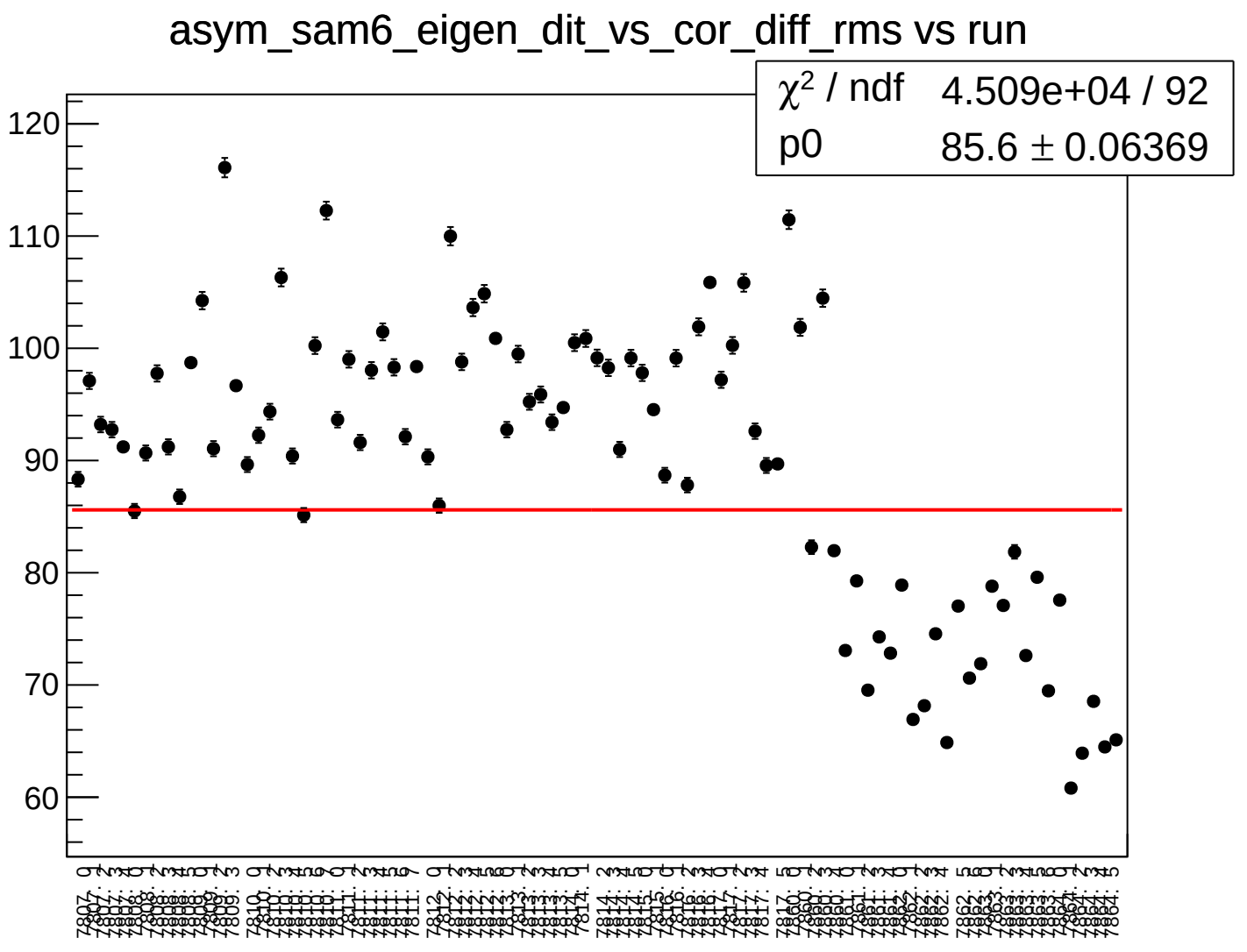

pull1D
Entries 93
Mean 0.0161
Std Dev 0.9077
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

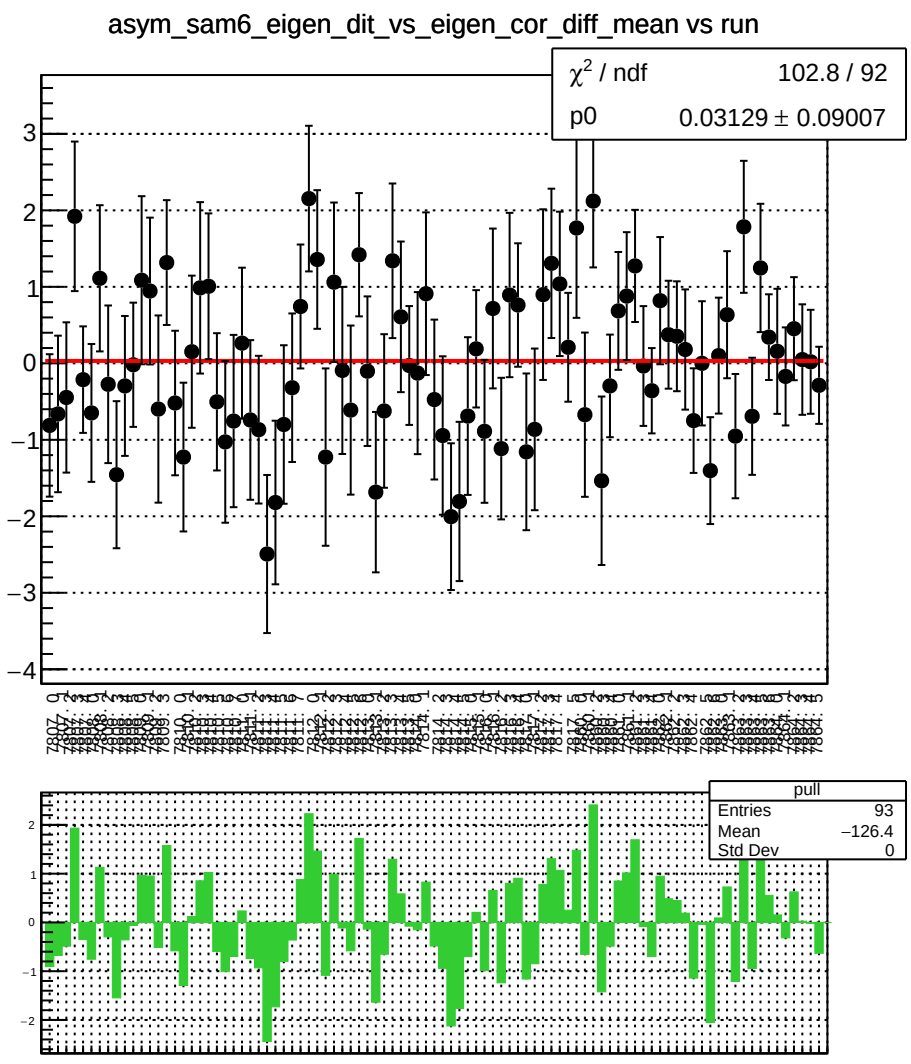
asym_sam6_eigen_dit_vs_dit_diff_rms vs run

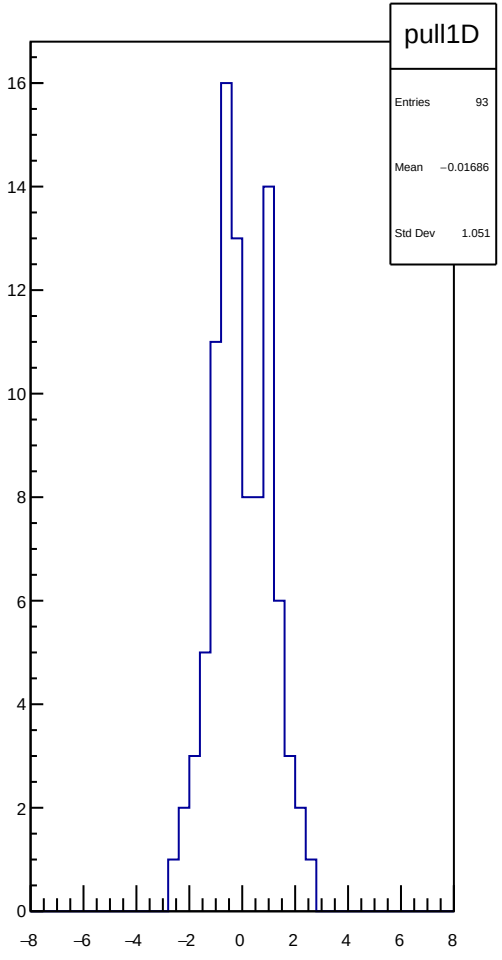


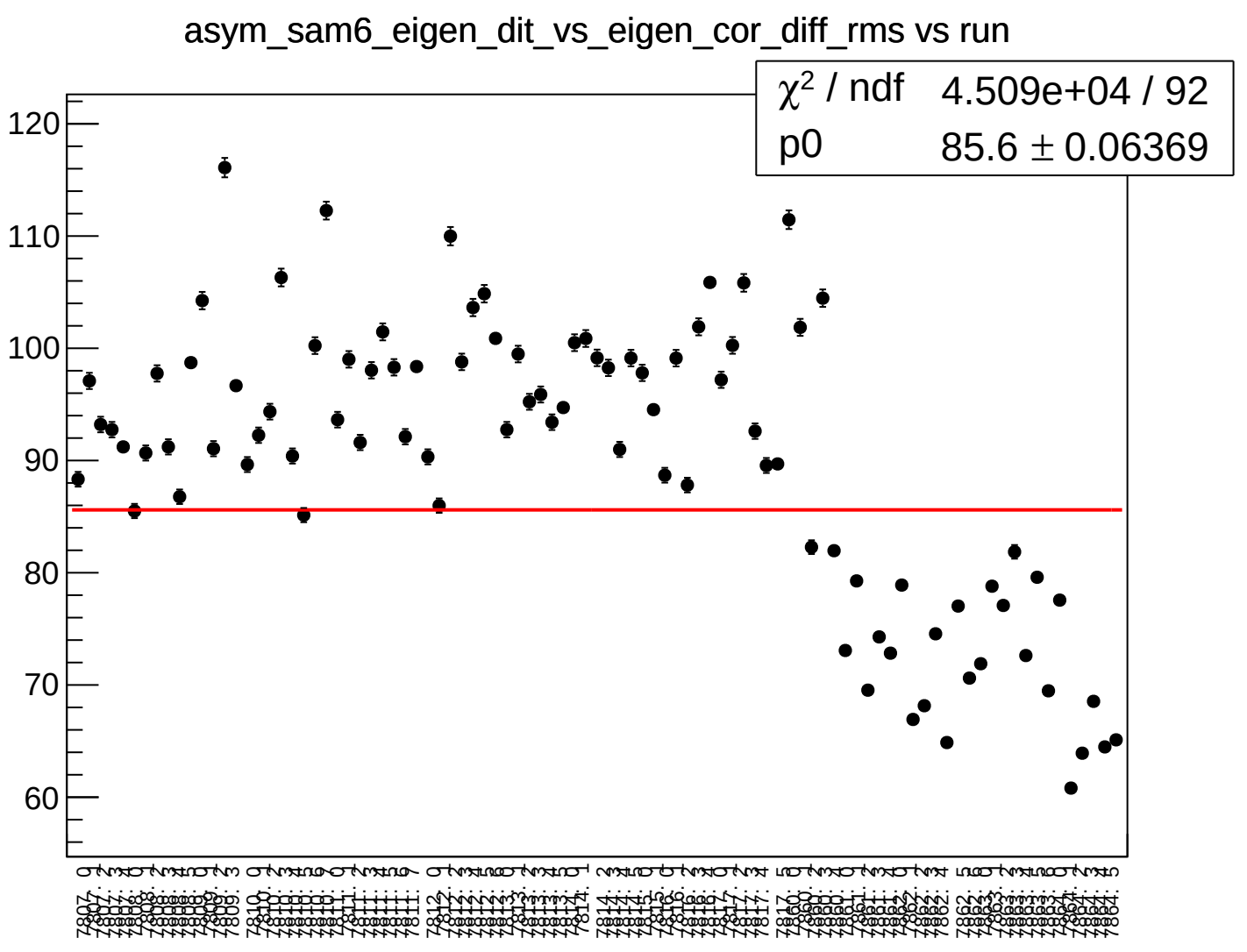

asym_sam6_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 102.8 / 92
p0 0.03129 ± 0.09007
pull
Entries 93
Mean −126.4
Std Dev 0

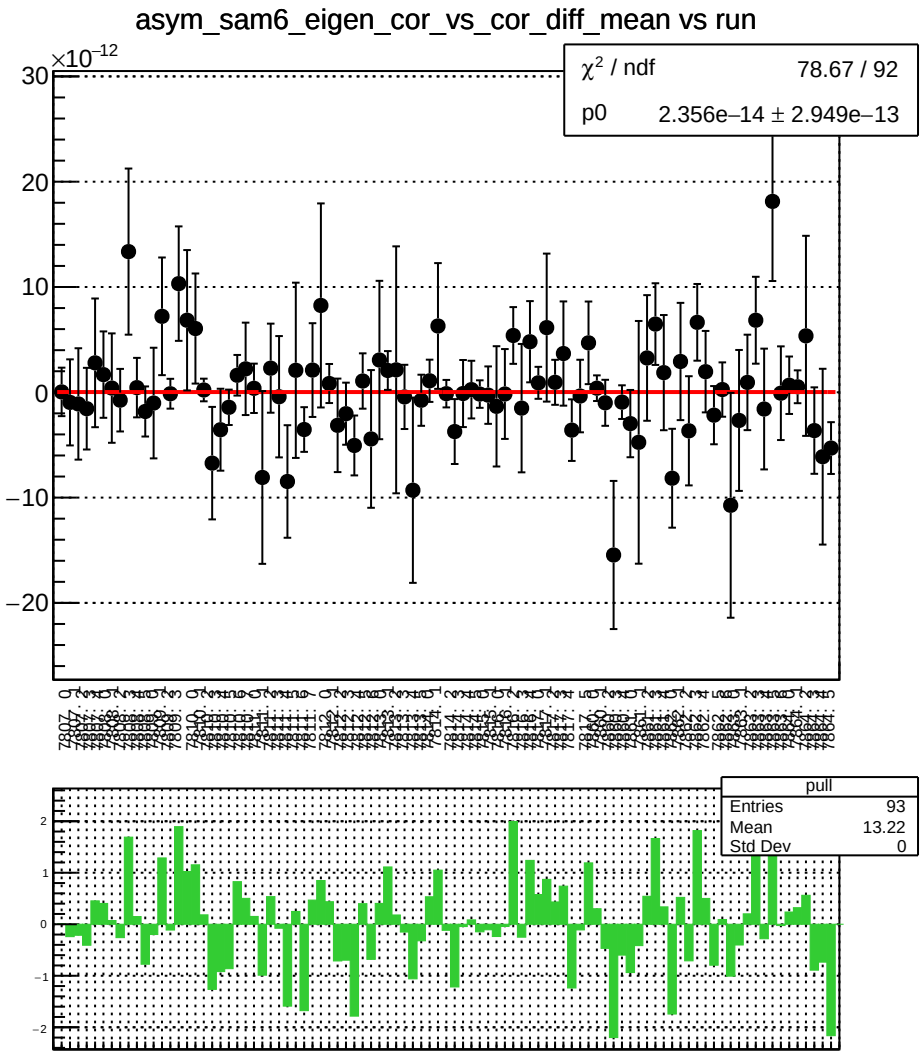

pull1D
Entries 93
Mean −0.01686
Std Dev 1.051

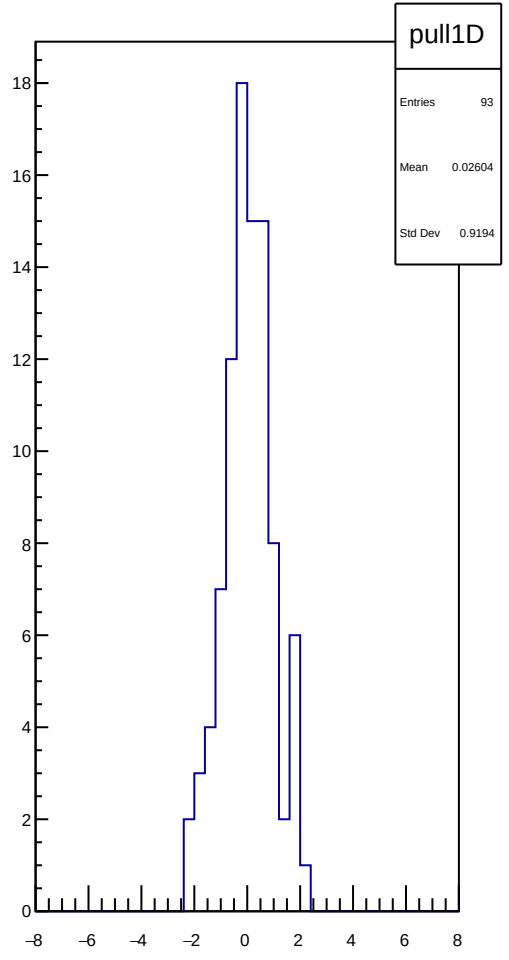

asym_sam6_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.509e+04 / 92
p0 85.6 ± 0.06369
120
110
100
90
80
70
60

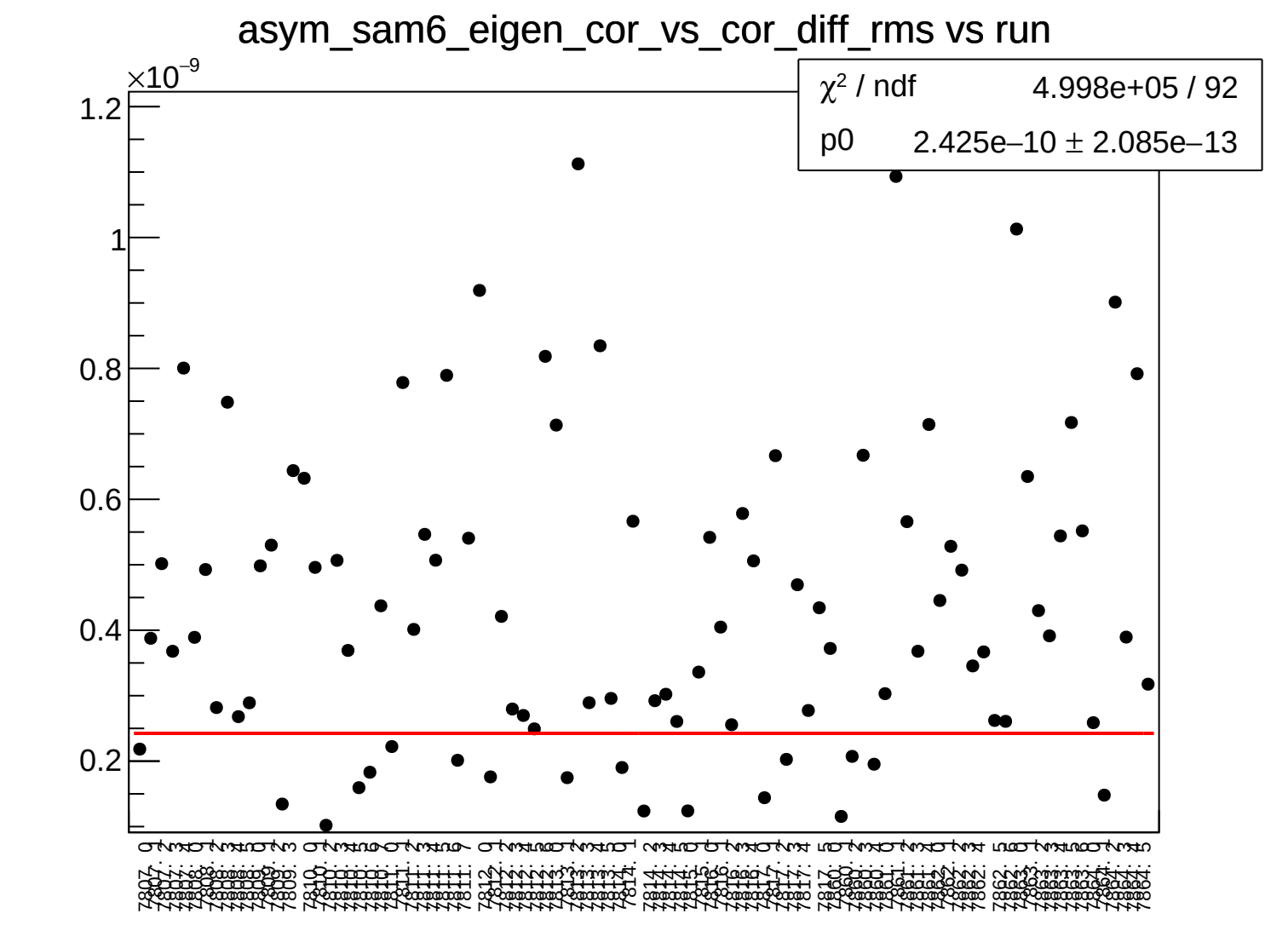

asym_sam6_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.8 / 92
p0 0.03129 ± 0.09007
pull
Entries 93
Mean −126.4
Std Dev 0

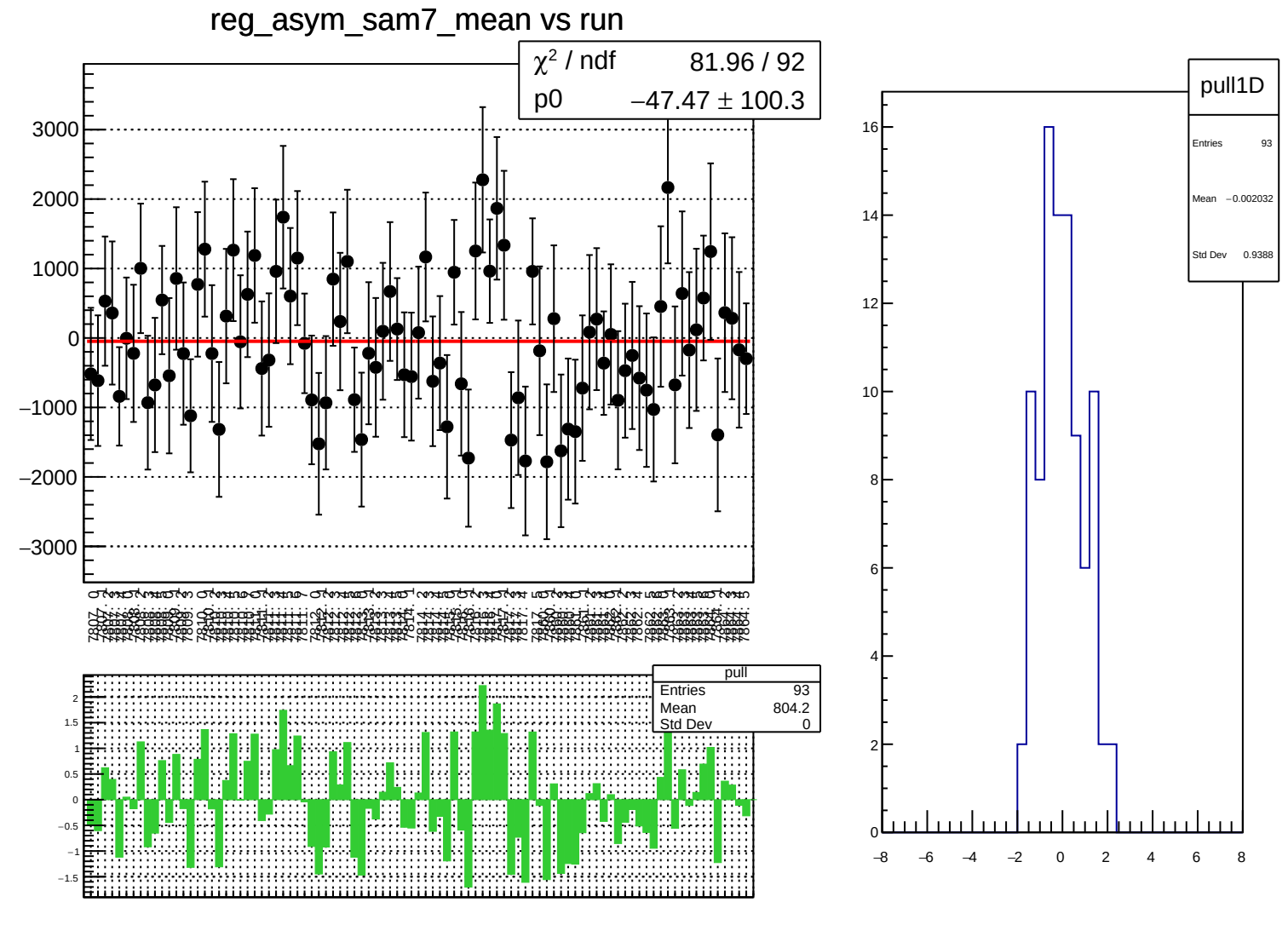

pull1D
Entries 93
Mean −0.01686
Std Dev 1.051

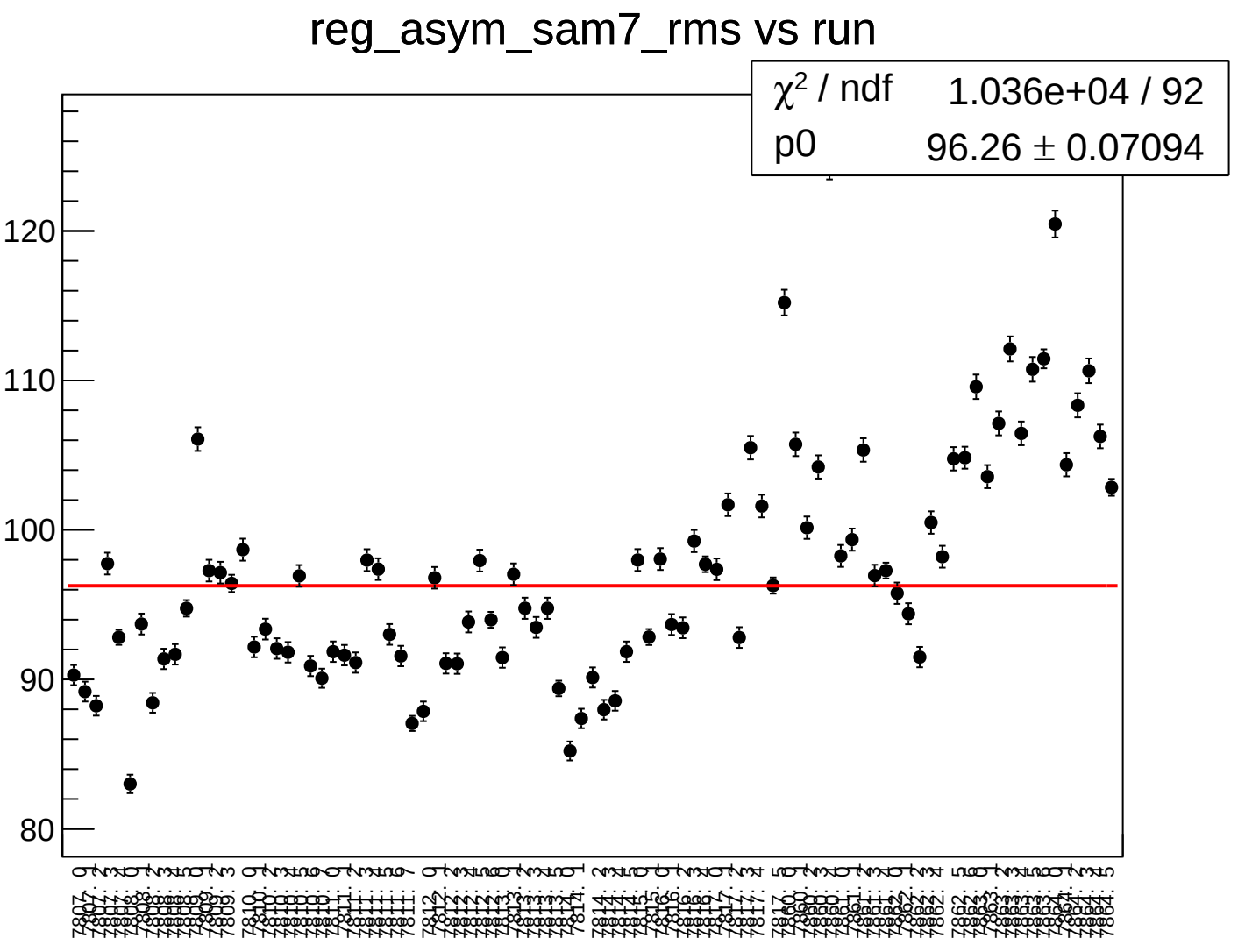

asym_sam6_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.509e+04 / 92
p0 85.6 ± 0.06369
120
110
100
90
80
70
60

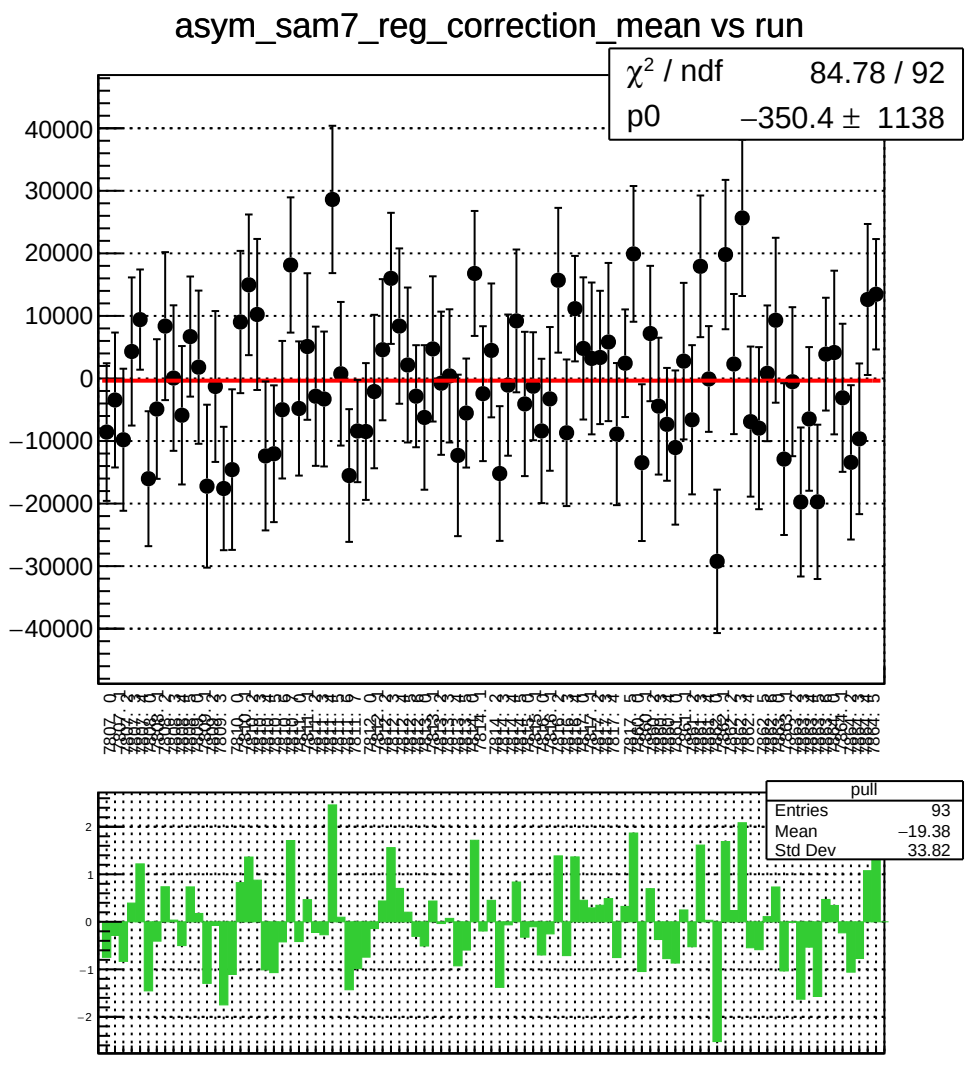

asym_sam6_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.67 / 92
p0 2.356e−14 ± 2.949e−13
pull
Entries 93
Mean 13.22
Std Dev 0

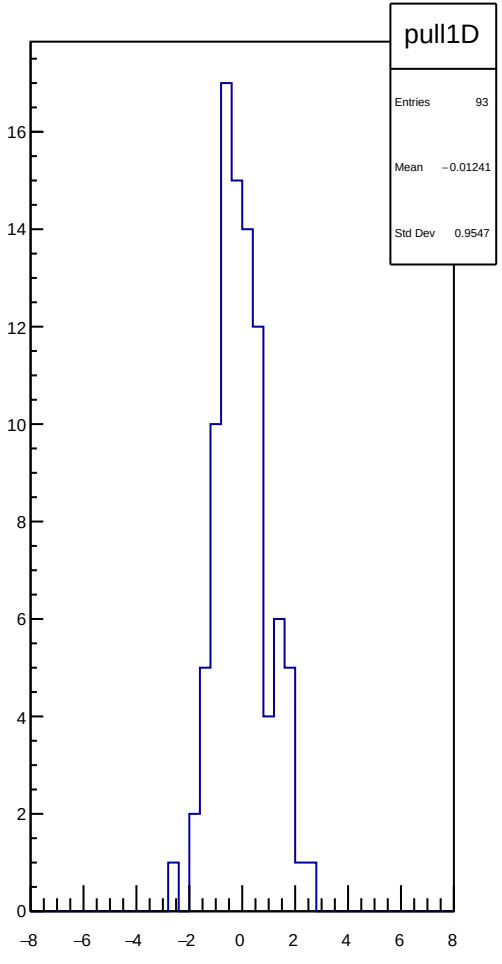

pull1D
Entries 93
Mean 0.02604
Std Dev 0.9194

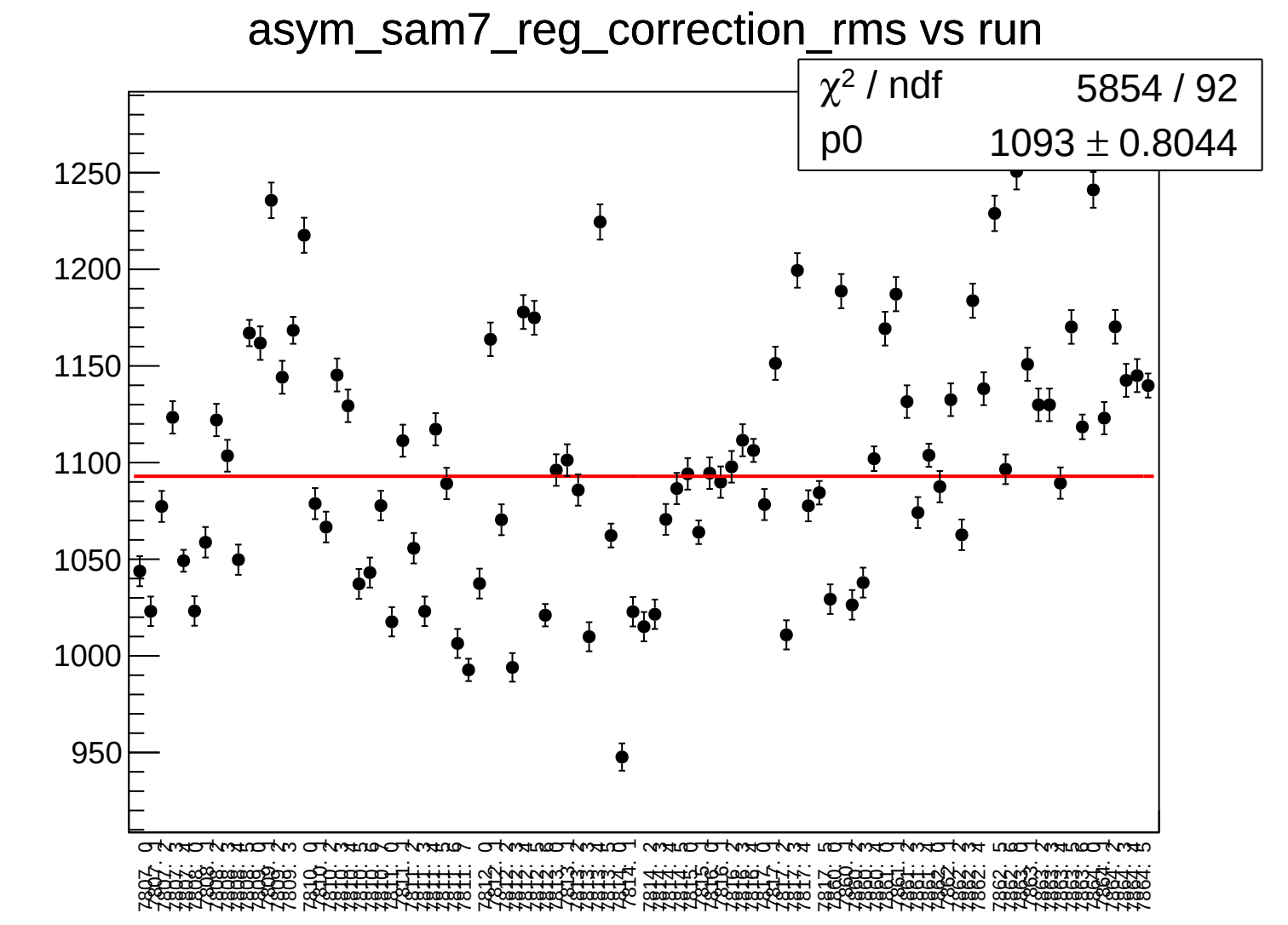

asym_sam6_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.998e+05 / 92
p0 2.425e−10 ± 2.085e−13
1.2
1
0.8
0.6
0.4
0.2

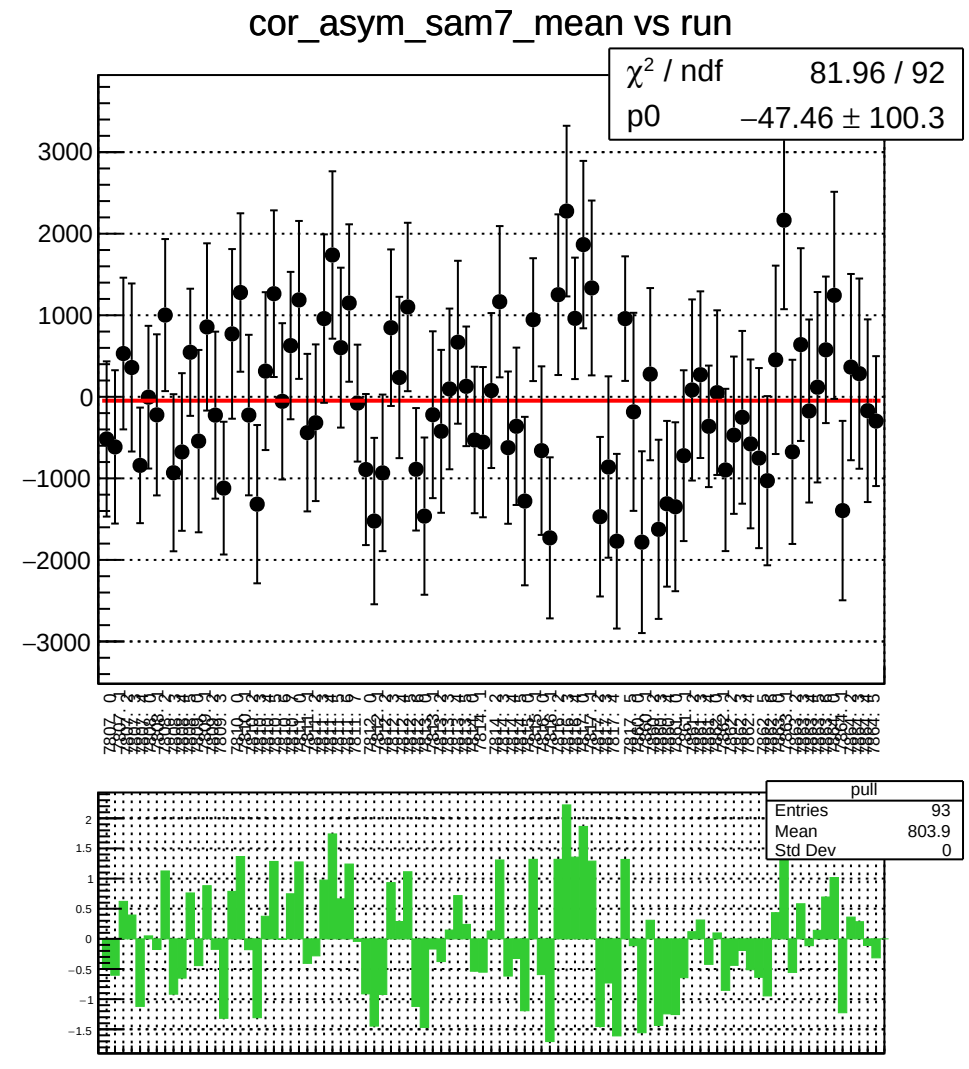

reg_asym_sam7_mean vs run
χ² / ndf 81.96 / 92
p0 −47.47 ± 100.3
pull
Entries 93
Mean 804.2
Std Dev 0
pull1D
Entries 93
Mean −0.002032
Std Dev 0.9388

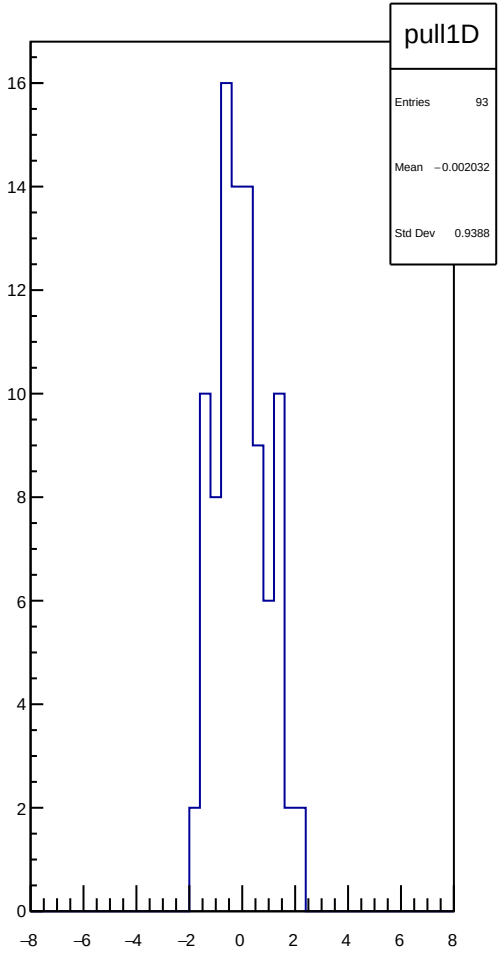

reg_asym_sam7_rms vs run
χ^2 / ndf 1.036e+04 / 92
p0 96.26 ± 0.07094
120
110
100
90
80

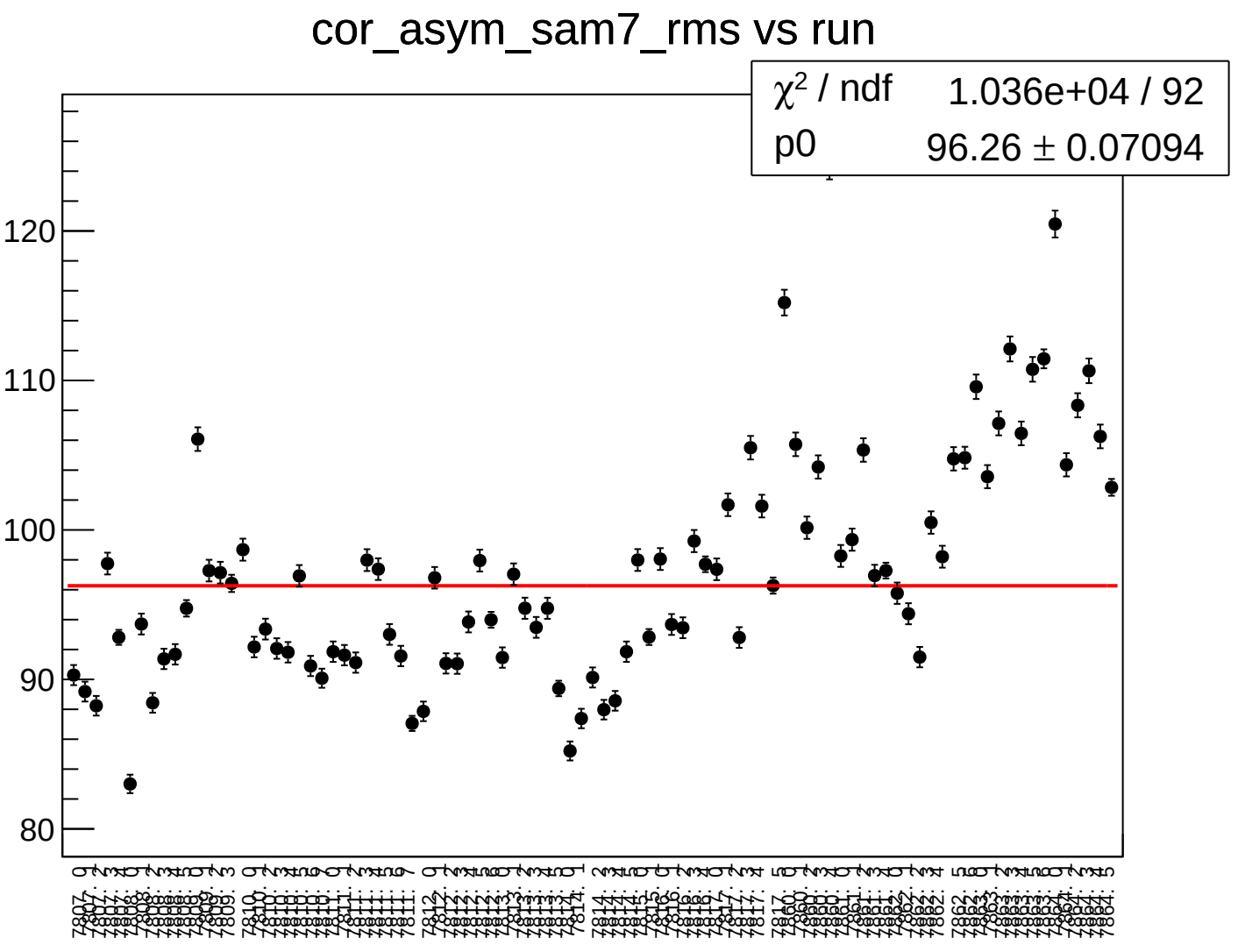

asym_sam7_reg_correction_mean vs run
χ² / ndf 84.78 / 92
p0 −350.4 ± 1138
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean −19.38
Std Dev 33.82
2
1
0
−1
−2

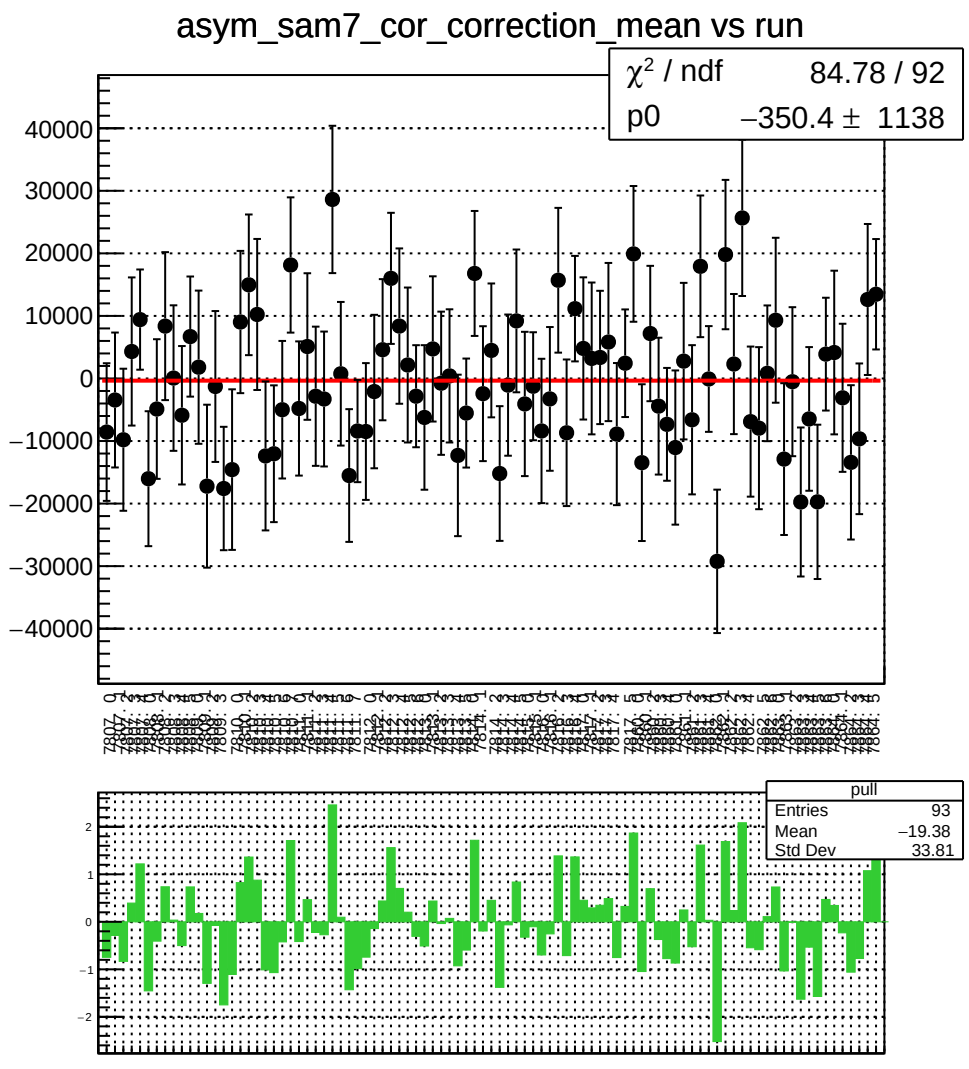

pull1D
Entries 93
Mean −0.01241
Std Dev 0.9547
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

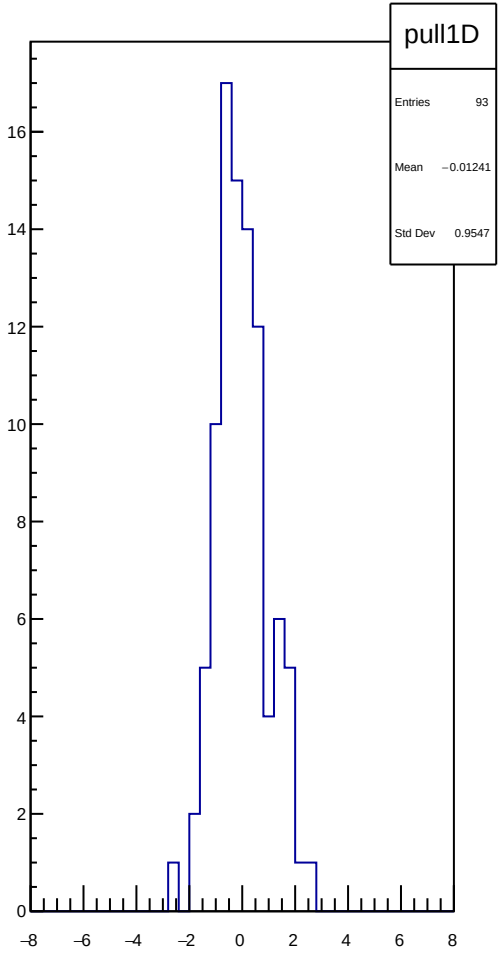

asym_sam7_reg_correction_rms vs run
χ² / ndf 5854 / 92
p0 1093 ± 0.8044
1250
1200
1150
1100
1050
1000
950

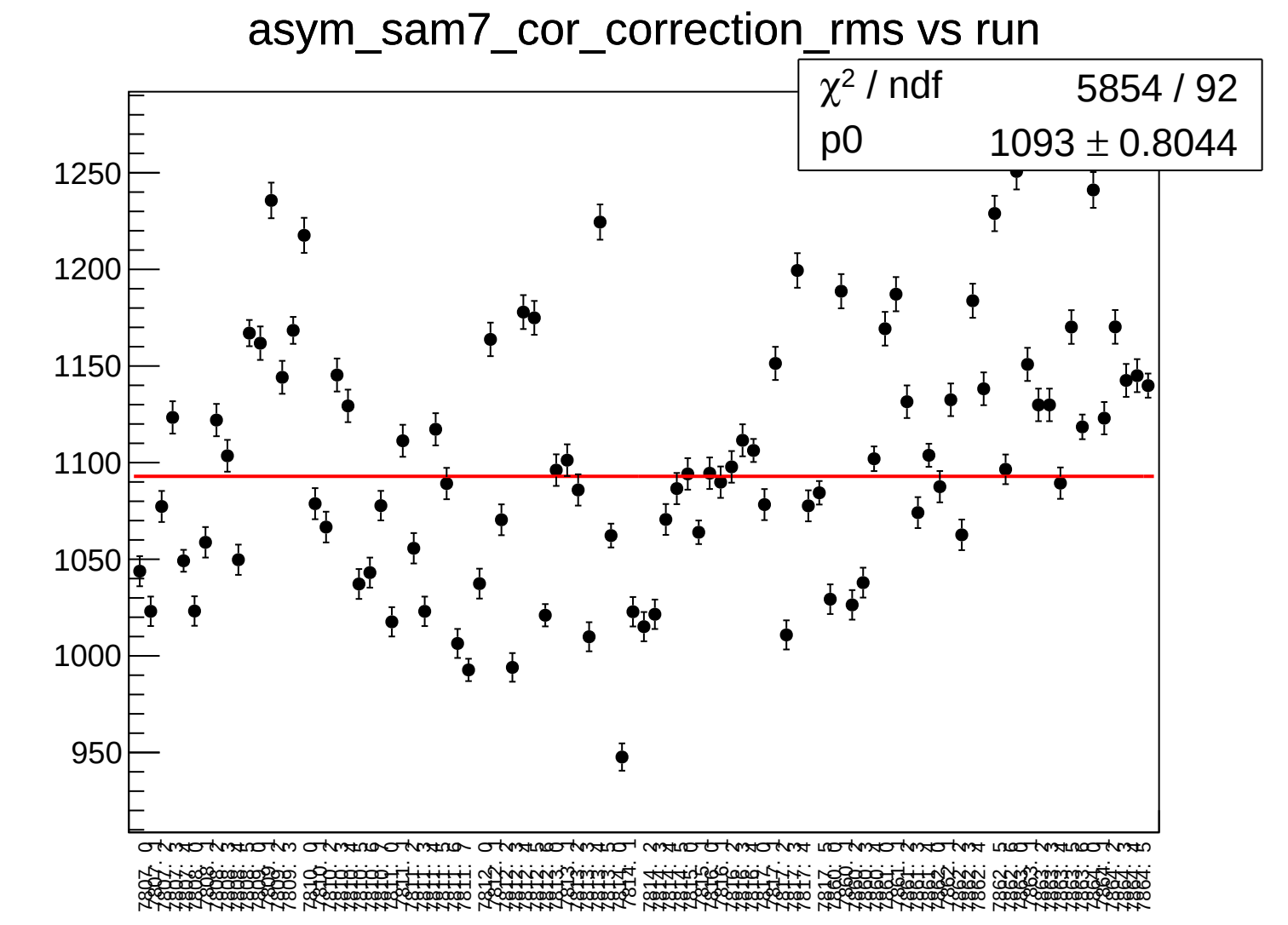

cor_asym_sam7_mean vs run
χ² / ndf 81.96 / 92
p0 −47.46 ± 100.3
pull
Entries 93
Mean 803.9
Std Dev 0

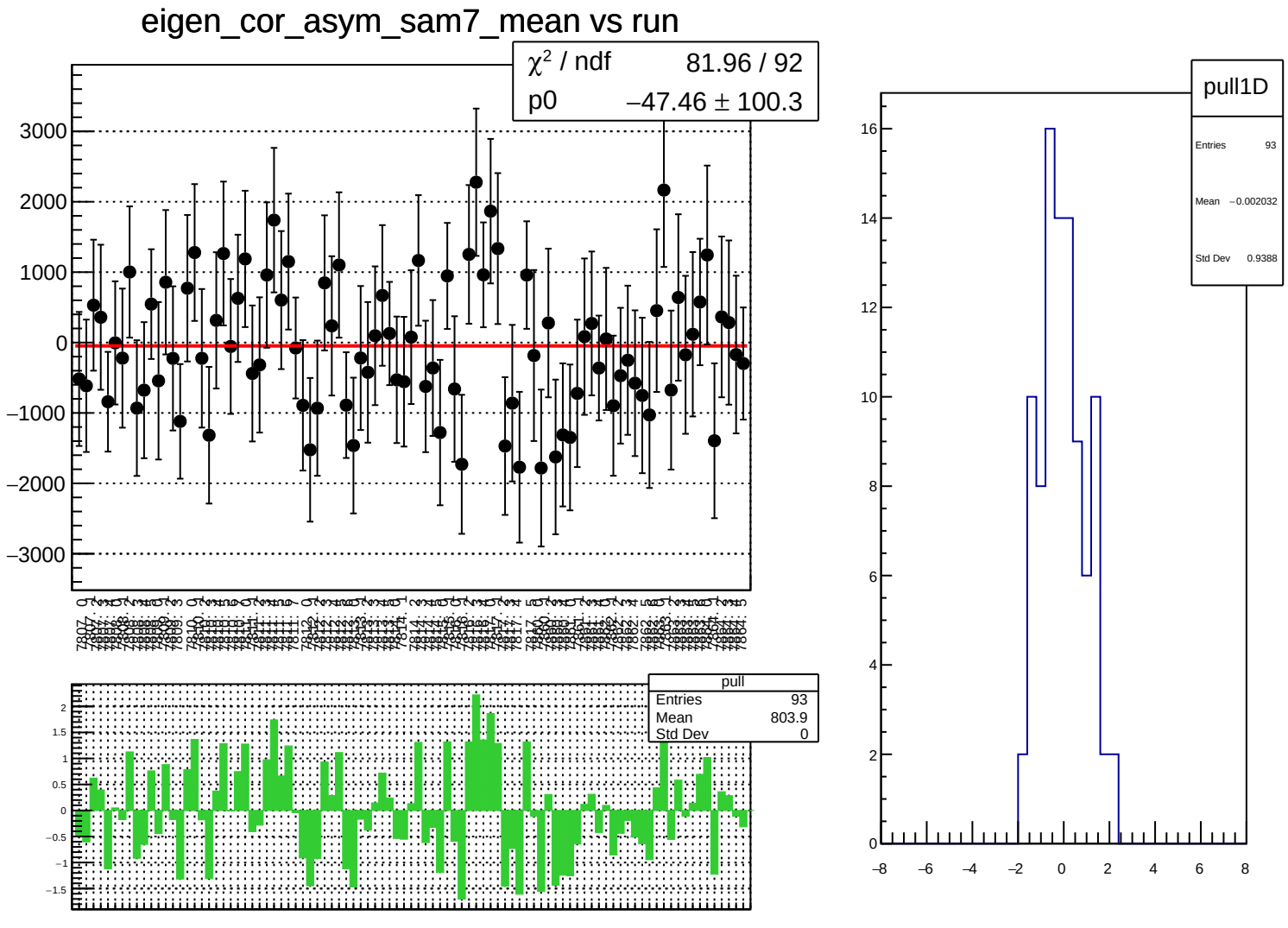

pull1D
Entries 93
Mean −0.002032
Std Dev 0.9388

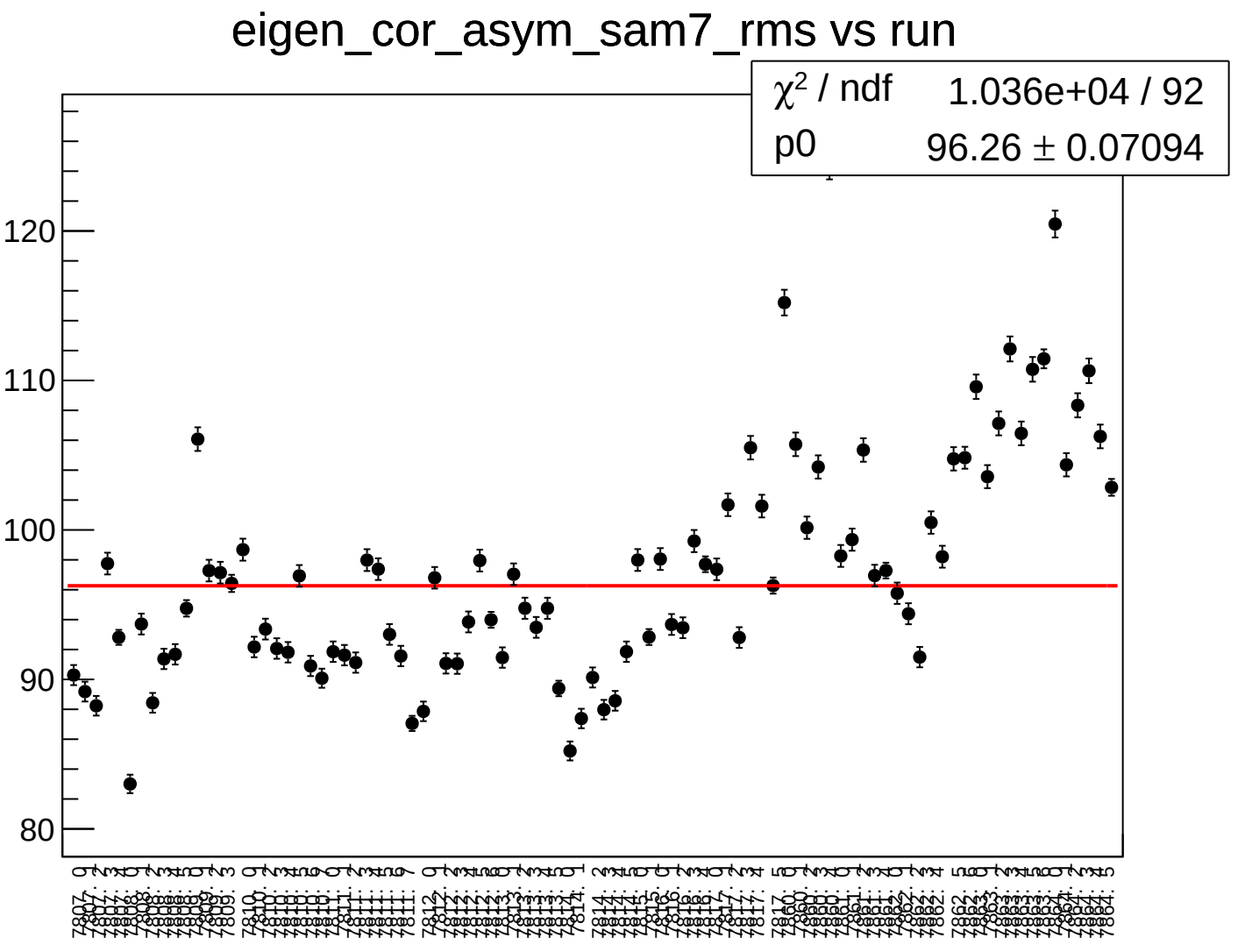

cor_asym_sam7_rms vs run
χ^2 / ndf 1.036e+04 / 92
p0 96.26 ± 0.07094
120
110
100
90
80

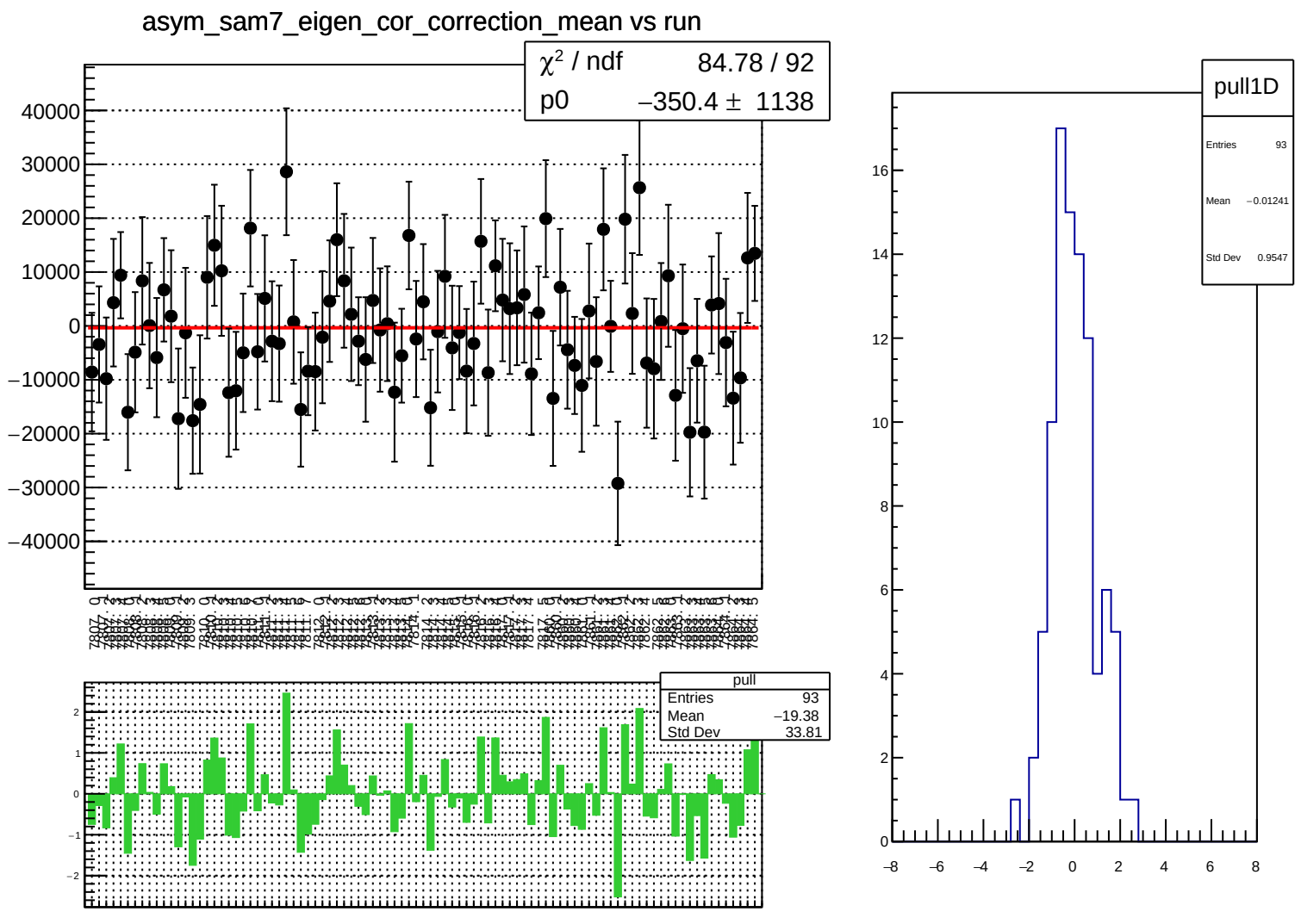

asym_sam7_cor_correction_mean vs run
χ² / ndf 84.78 / 92
p0 −350.4 ± 1138
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean −19.38
Std Dev 33.81
2
1
0
−1
−2

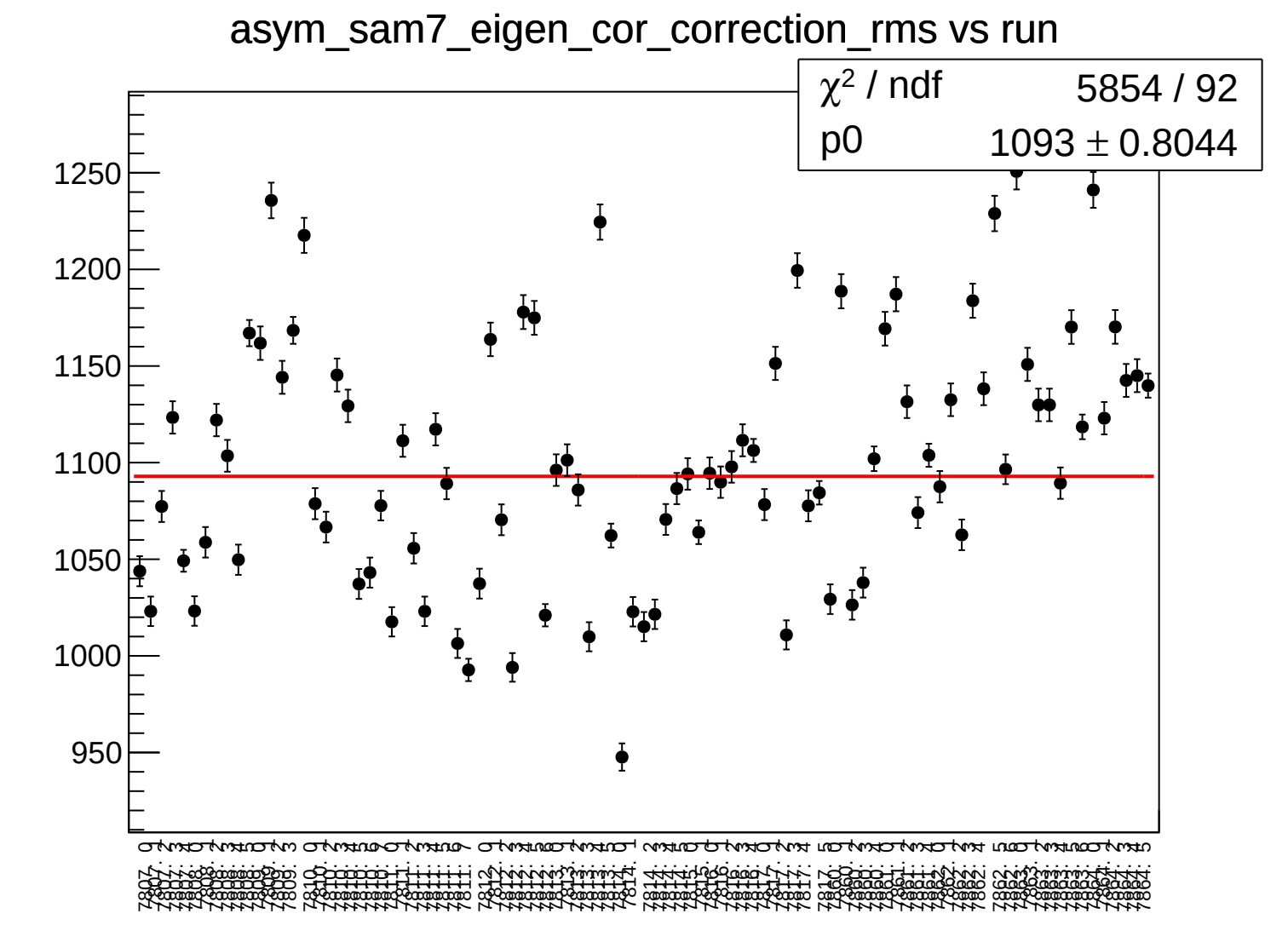

pull1D
Entries 93
Mean −0.01241
Std Dev 0.9547
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

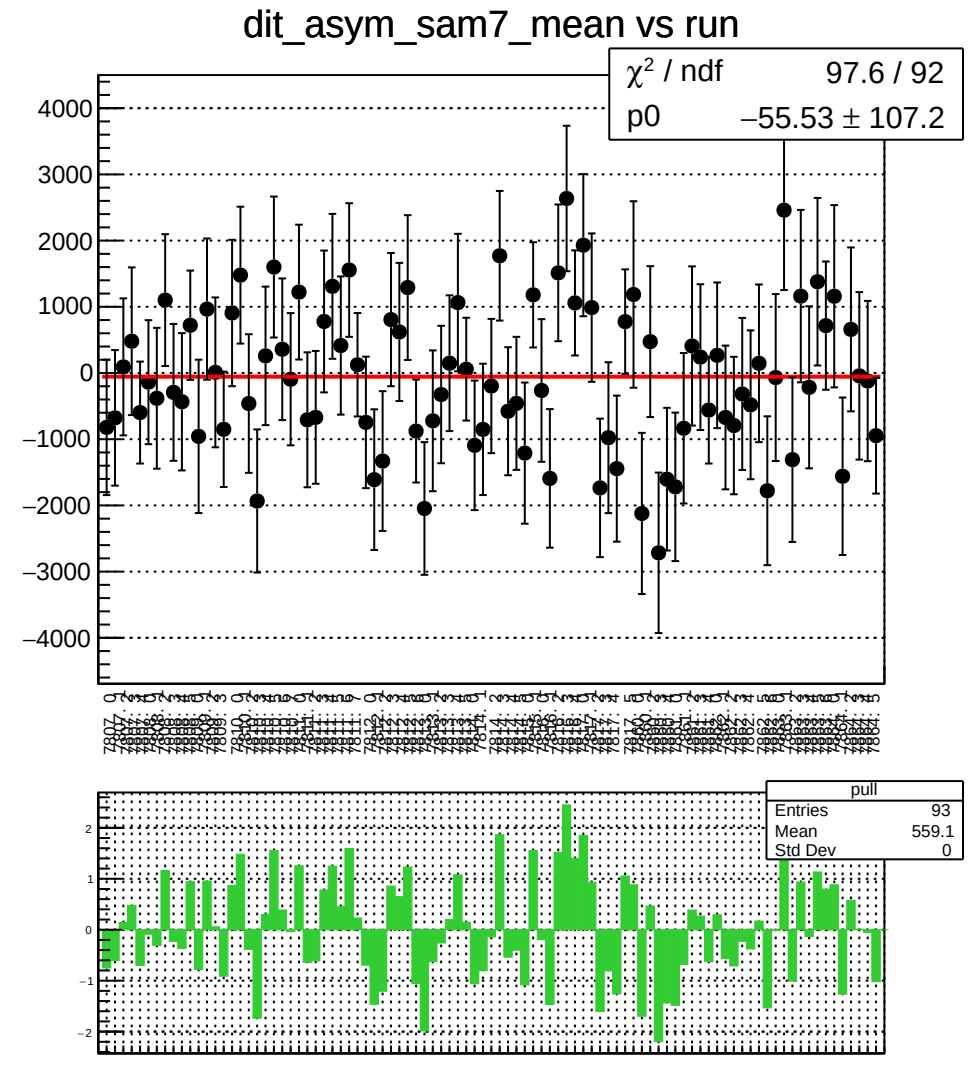

asym_sam7_cor_correction_rms vs run
χ² / ndf 5854 / 92
p0 1093 ± 0.8044
1250
1200
1150
1100
1050
1000
950

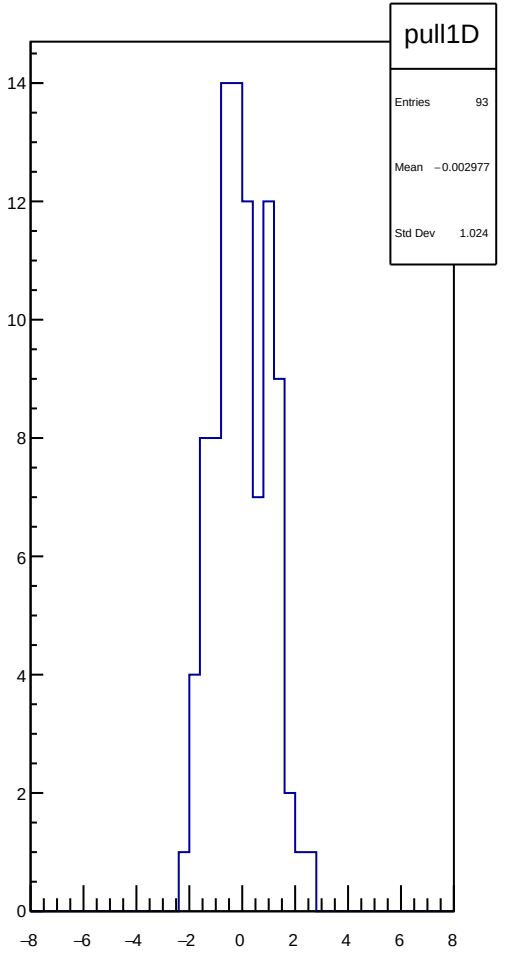

eigen_cor_asym_sam7_mean vs run
χ² / ndf 81.96 / 92
p0 −47.46 ± 100.3
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean 803.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 93
Mean −0.002032
Std Dev 0.9388
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

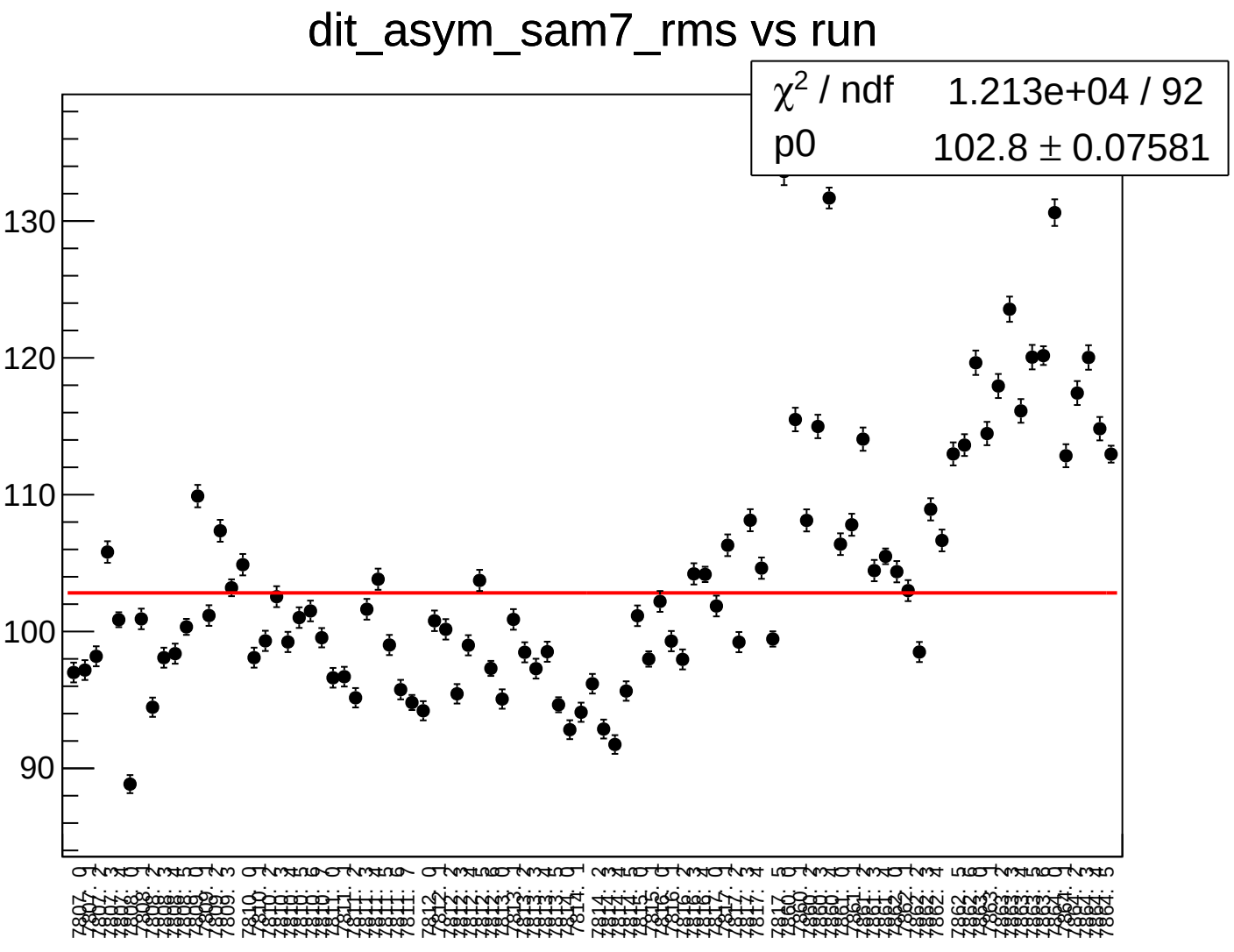

eigen_cor_asym_sam7_rms vs run
χ² / ndf 1.036e+04 / 92
p0 96.26 ± 0.07094
120
110
100
90
80

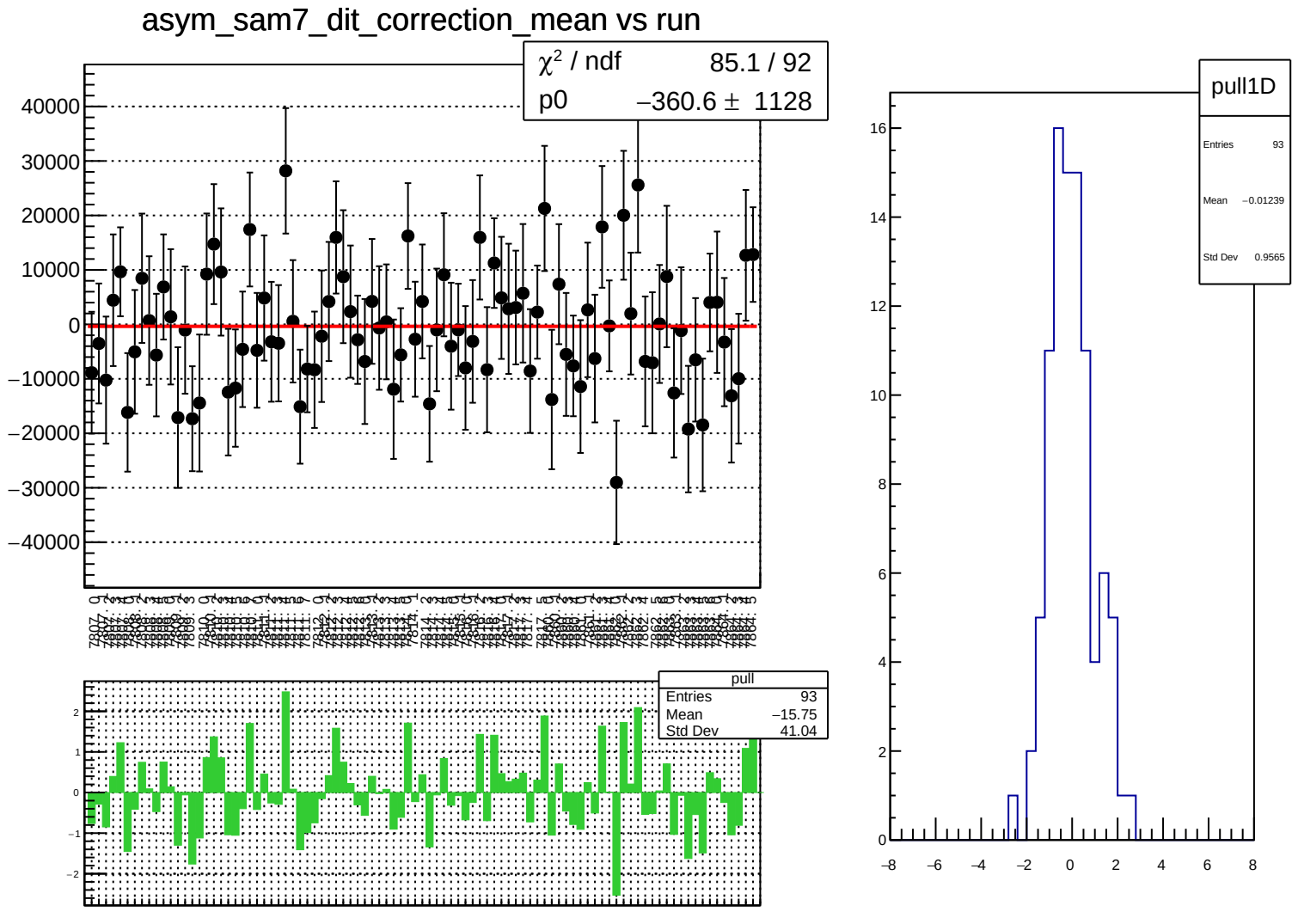

asym_sam7_eigen_cor_correction_mean vs run
χ² / ndf 84.78 / 92
p0 −350.4 ± 1138
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean −19.38
Std Dev 33.81
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.01241
Std Dev 0.9547
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

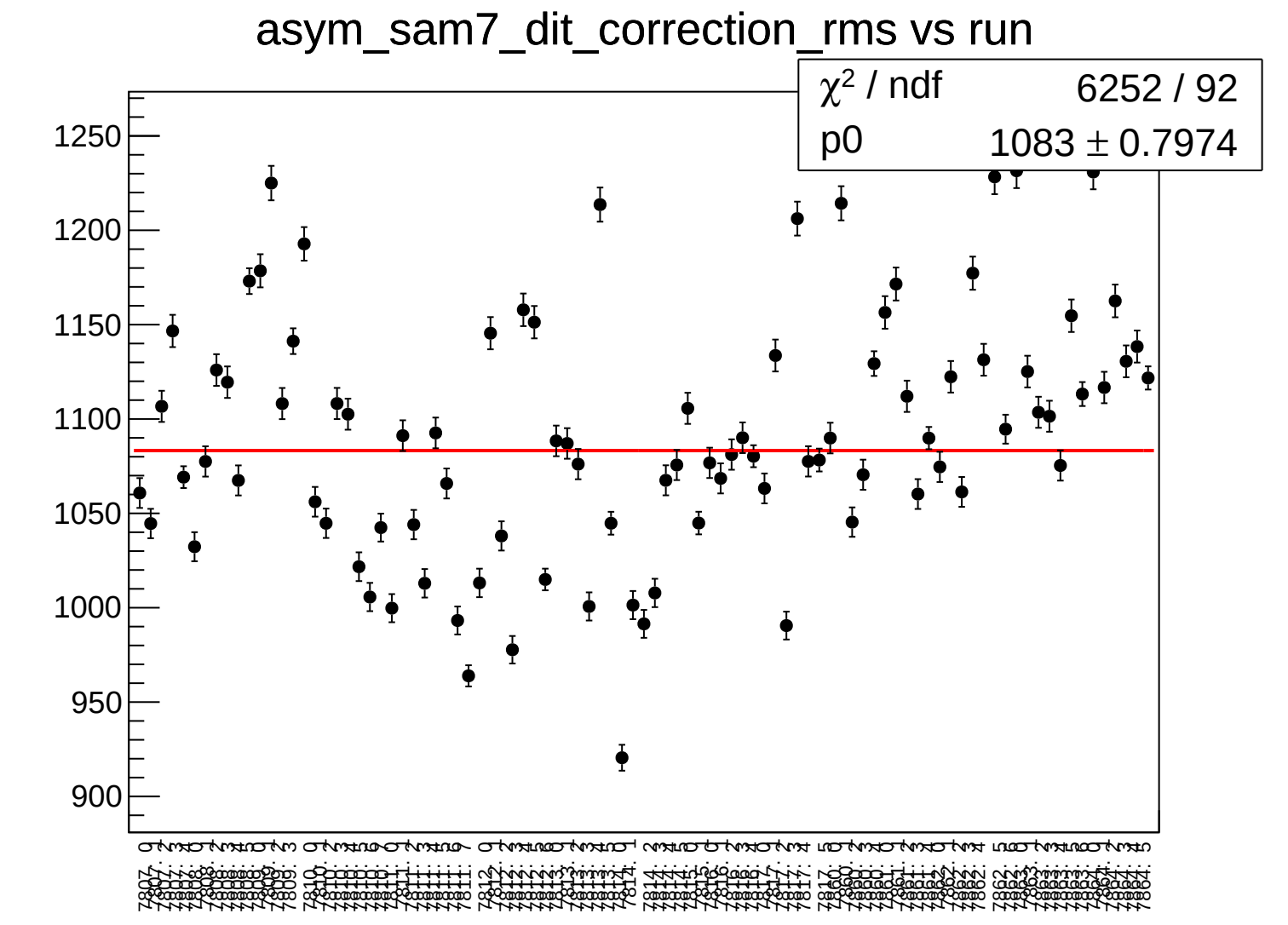

asym_sam7_eigen_cor_correction_rms vs run
χ² / ndf 5854 / 92
p0 1093 ± 0.8044
1250
1200
1150
1100
1050
1000
950

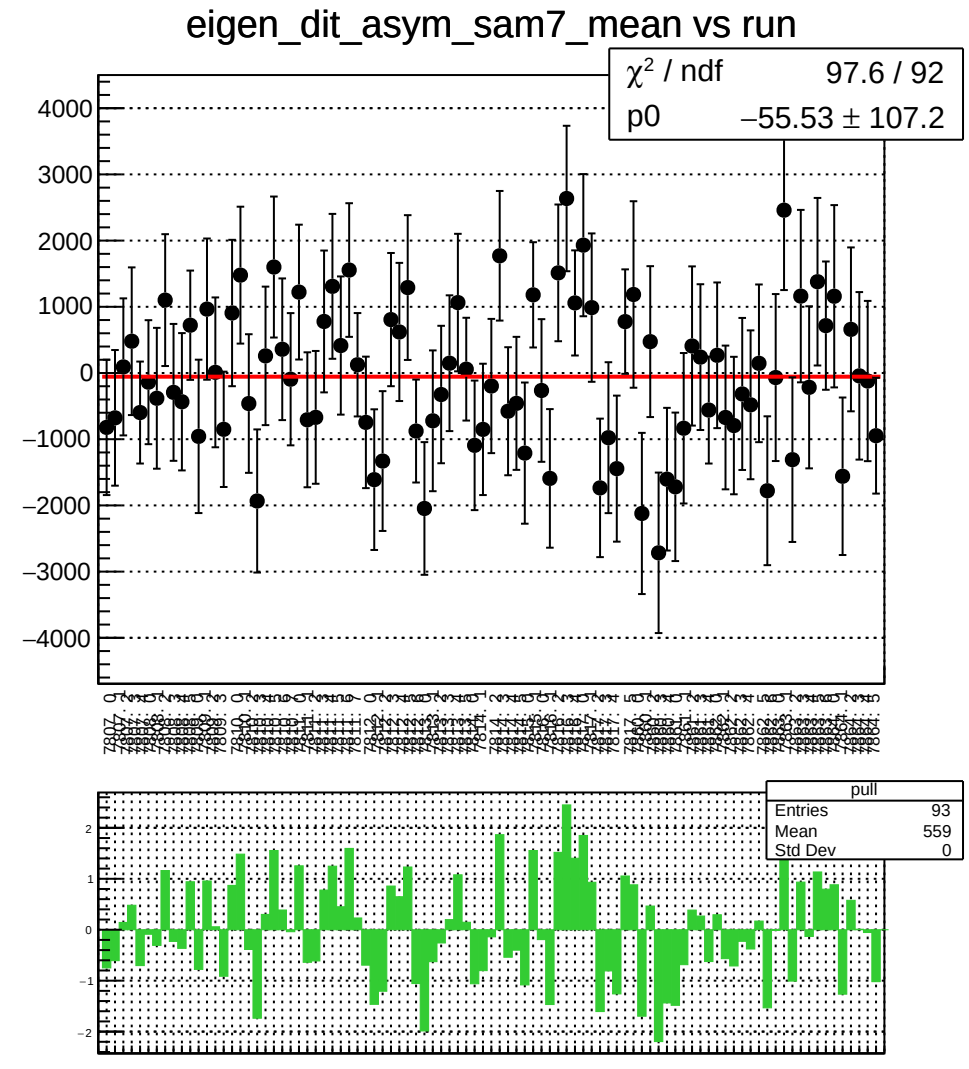

dit_asym_sam7_mean vs run
χ² / ndf 97.6 / 92
p0 −55.53 ± 107.2
pull
Entries 93
Mean 559.1
Std Dev 0

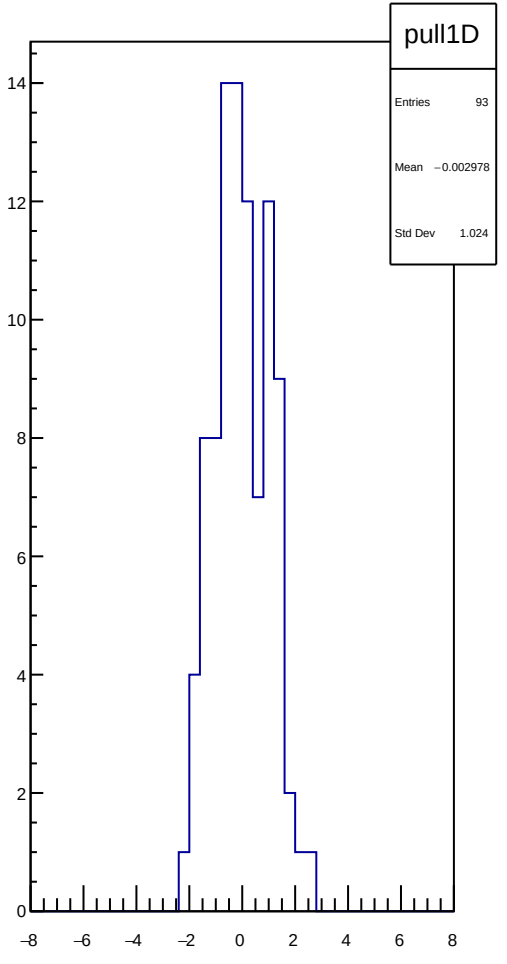

pull1D
Entries 93
Mean −0.002977
Std Dev 1.024

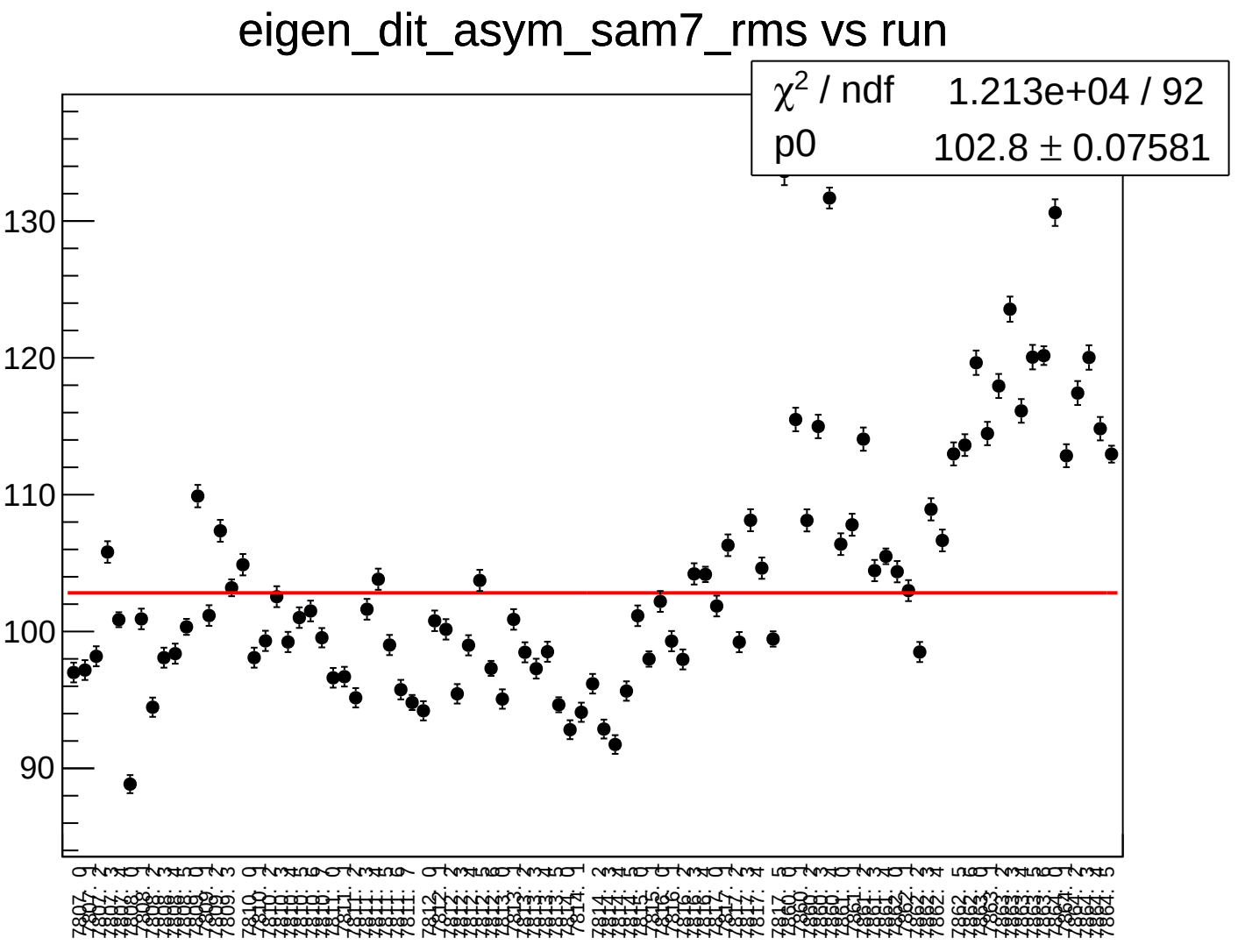

dit_asym_sam7_rms vs run
χ^2 / ndf 1.213e+04 / 92
p0 102.8 ± 0.07581
130
120
110
100
90

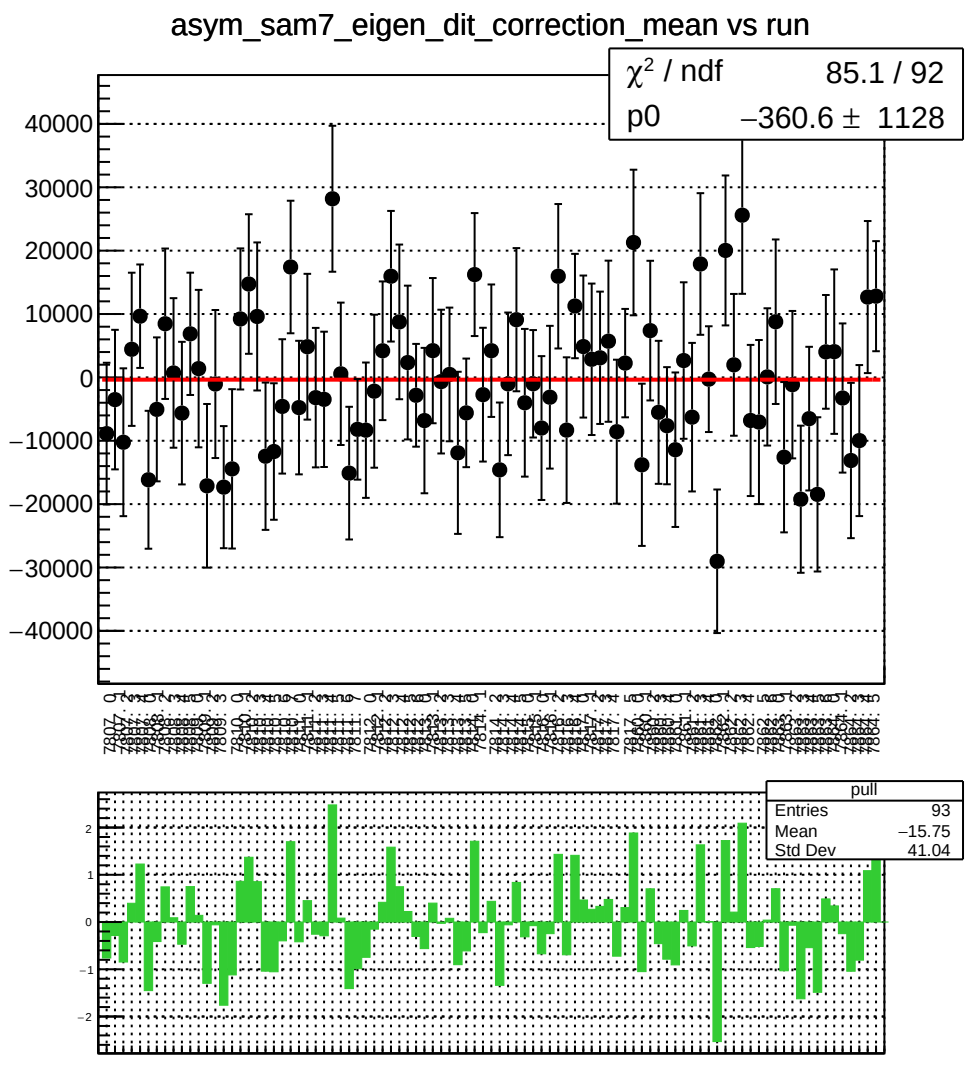

asym_sam7_dit_correction_mean vs run
χ² / ndf 85.1 / 92
p0 −360.6 ± 1128
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean −15.75
Std Dev 41.04
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.01239
Std Dev 0.9565
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

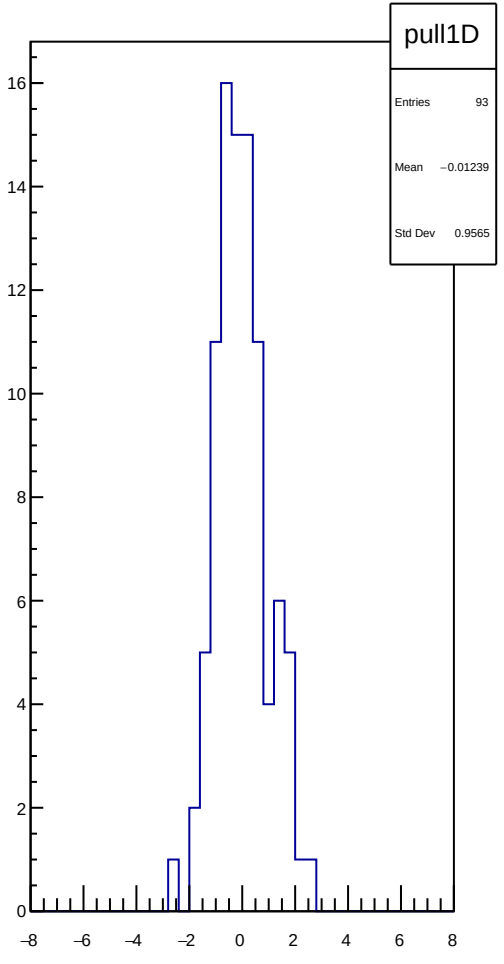

asym_sam7_dit_correction_rms vs run
χ² / ndf 6252 / 92
p0 1083 ± 0.7974
1250
1200
1150
1100
1050
1000
950
900

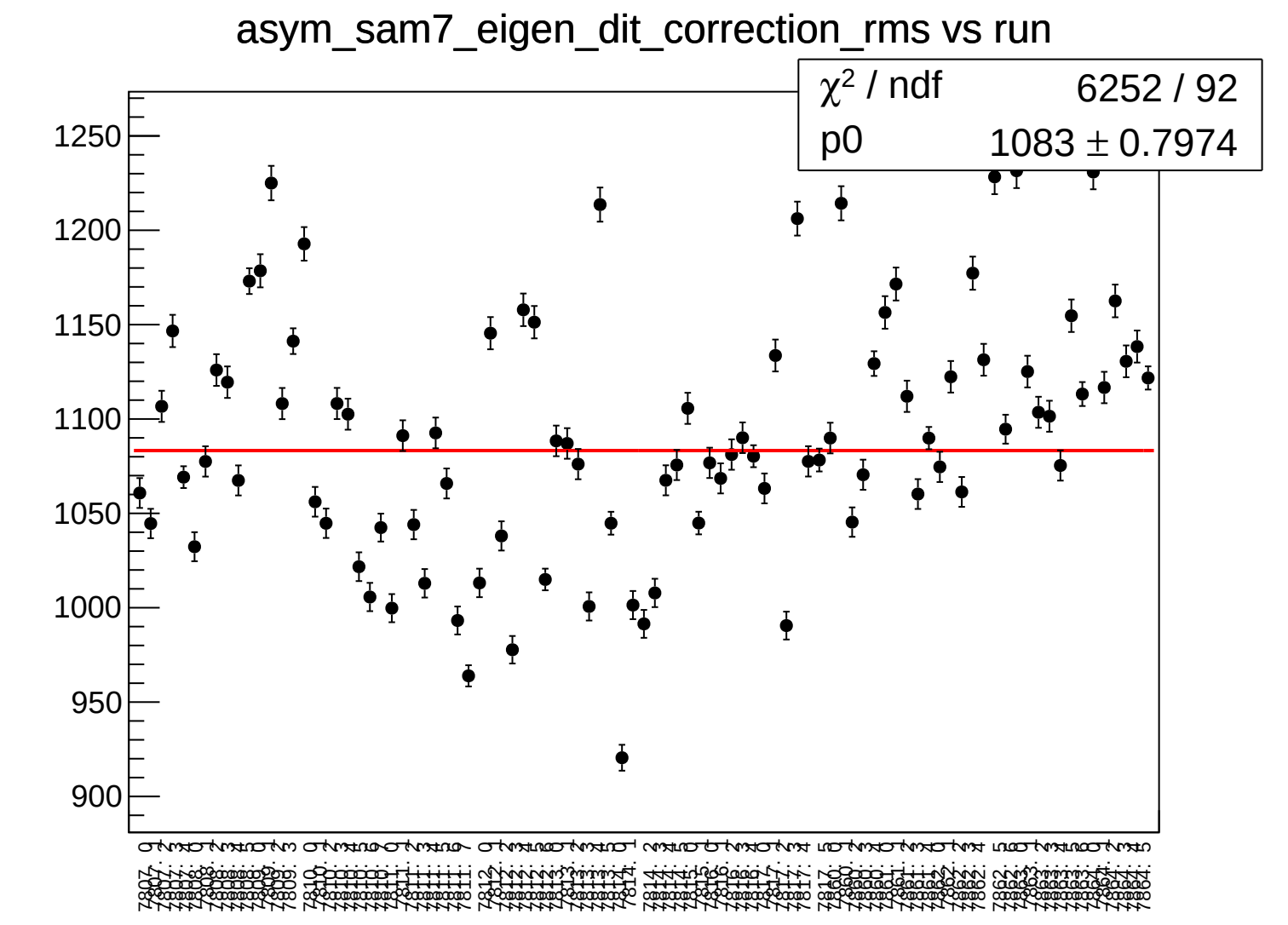

eigen_dit_asym_sam7_mean vs run
χ² / ndf 97.6 / 92
p0 −55.53 ± 107.2
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 93
Mean 559
Std Dev 0
2
1
0
−1
−2

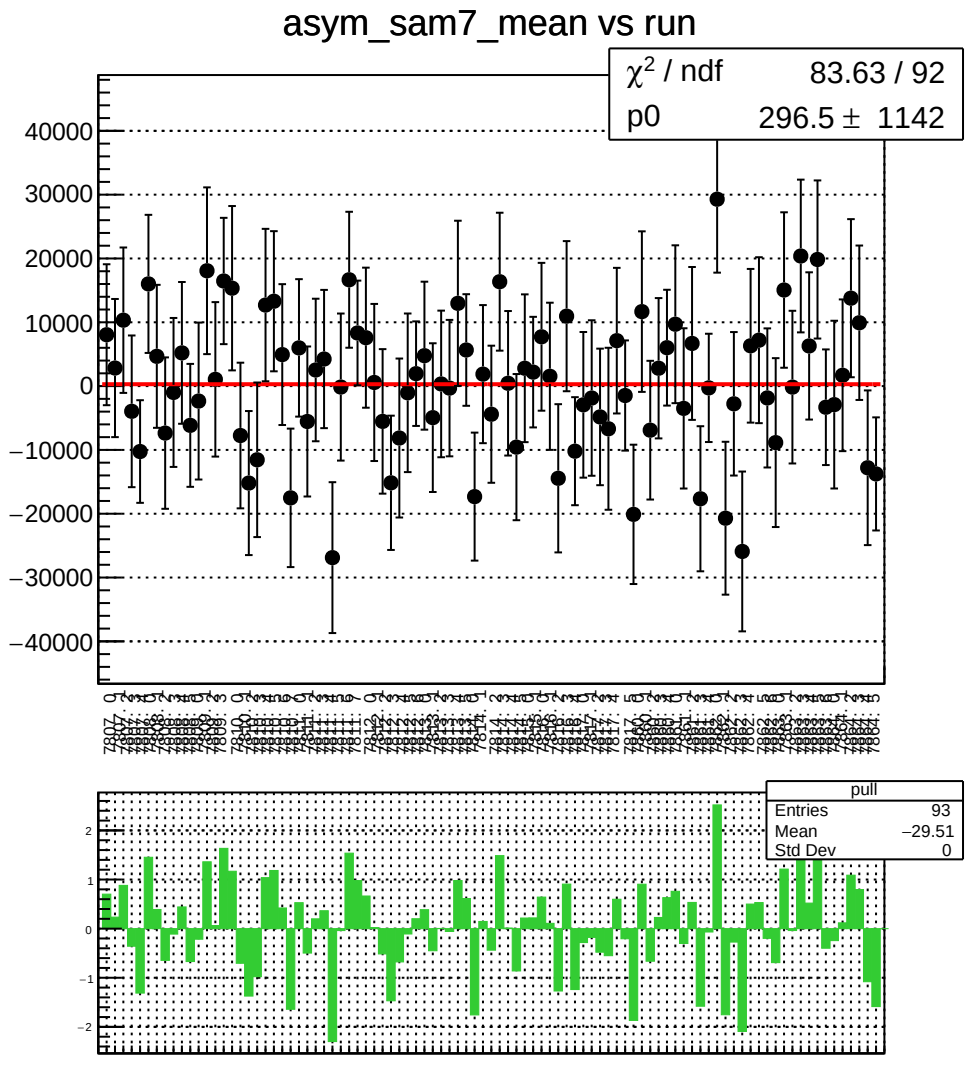

pull1D
Entries 93
Mean −0.002978
Std Dev 1.024
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

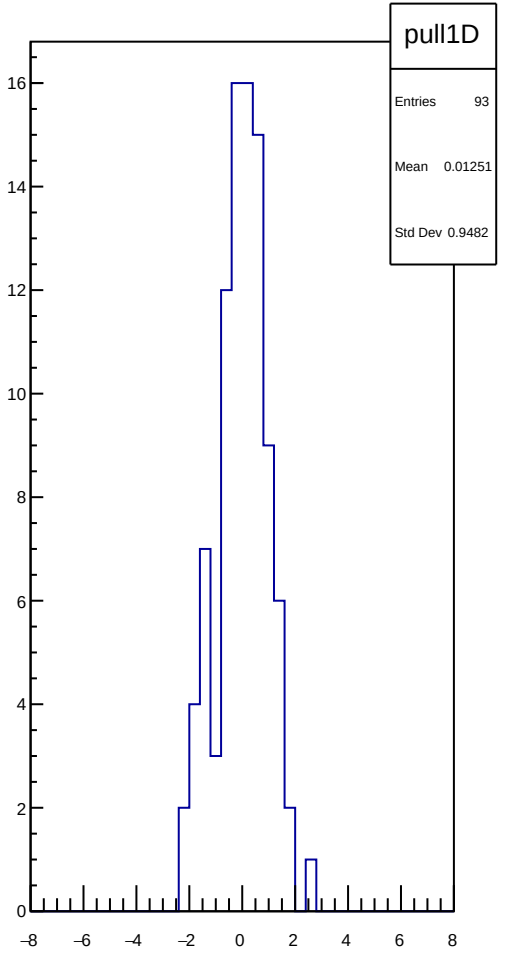

eigen_dit_asym_sam7_rms vs run
χ^2 / ndf 1.213e+04 / 92
p0 102.8 ± 0.07581
130
120
110
100
90

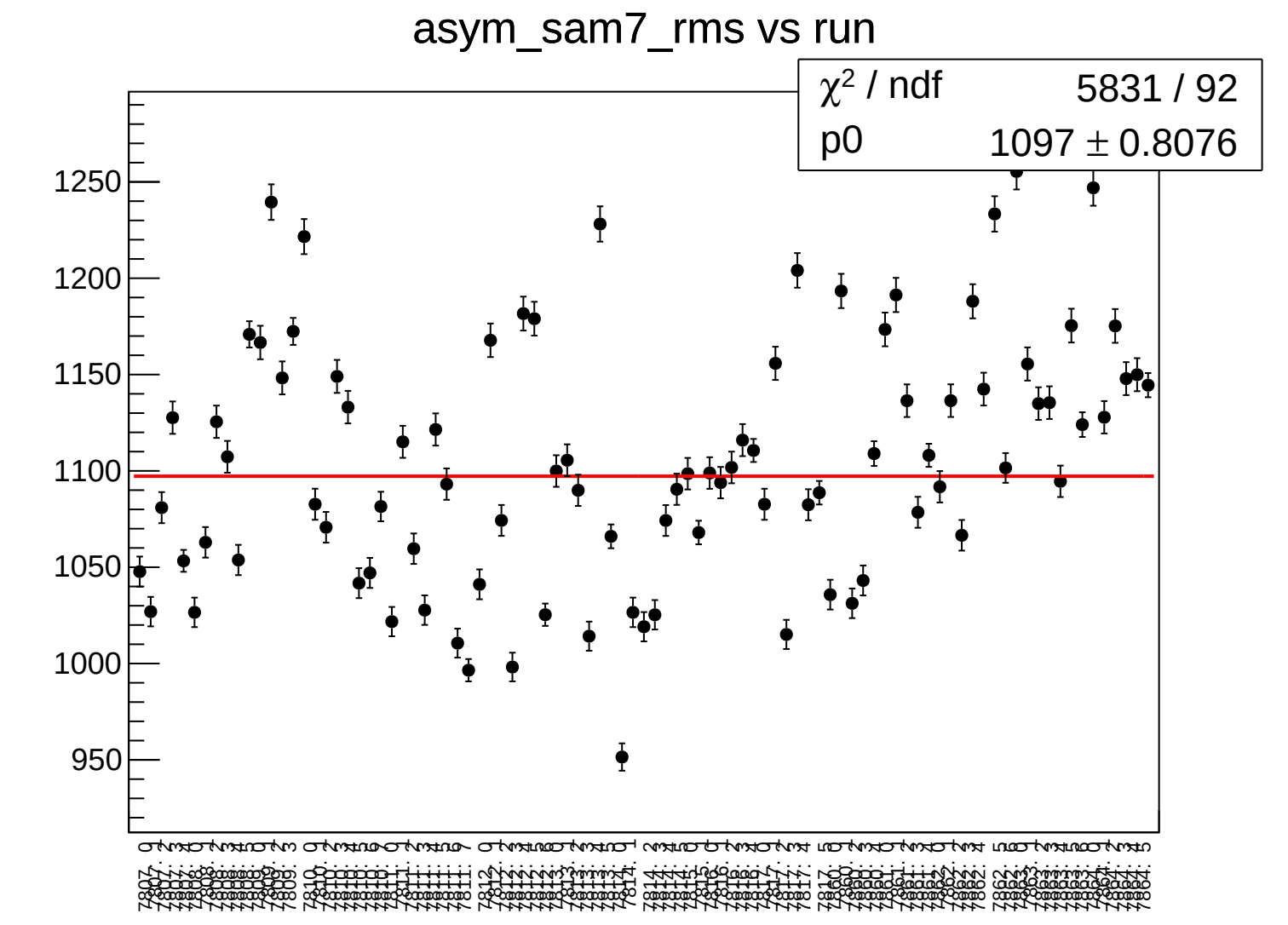

asym_sam7_eigen_dit_correction_mean vs run
χ² / ndf 85.1 / 92
p0 −360.6 ± 1128
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean −15.75
Std Dev 41.04
2
1
0
−1
−2

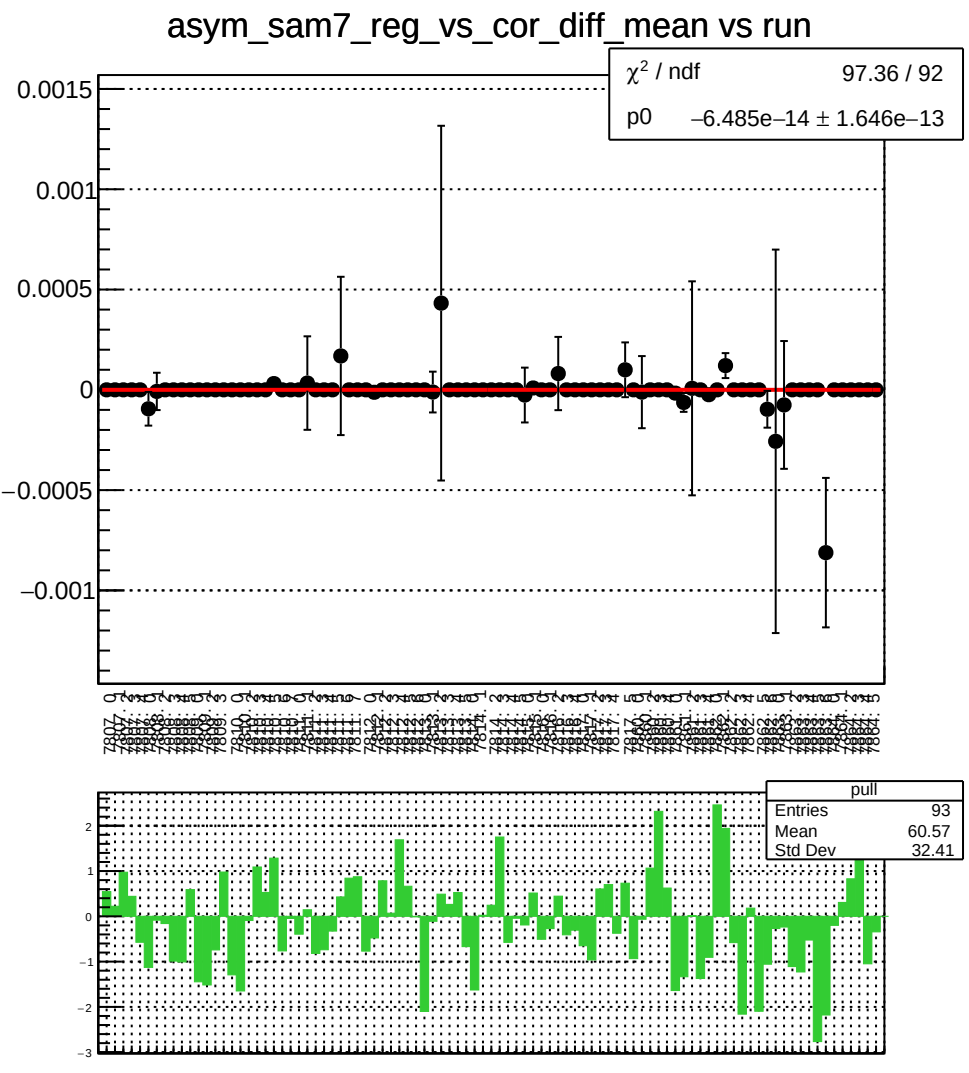

pull1D
Entries 93
Mean −0.01239
Std Dev 0.9565
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

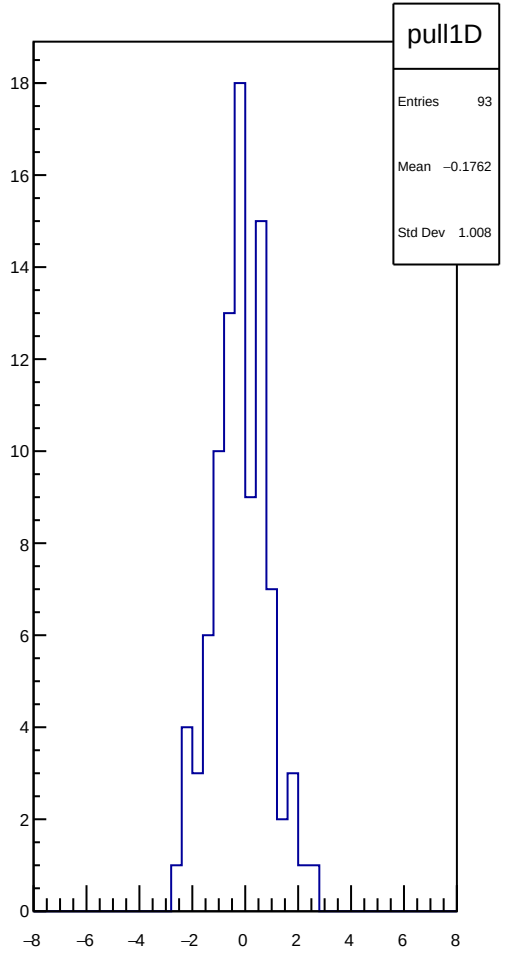

asym_sam7_eigen_dit_correction_rms vs run
χ² / ndf 6252 / 92
p0 1083 ± 0.7974
1250
1200
1150
1100
1050
1000
950
900

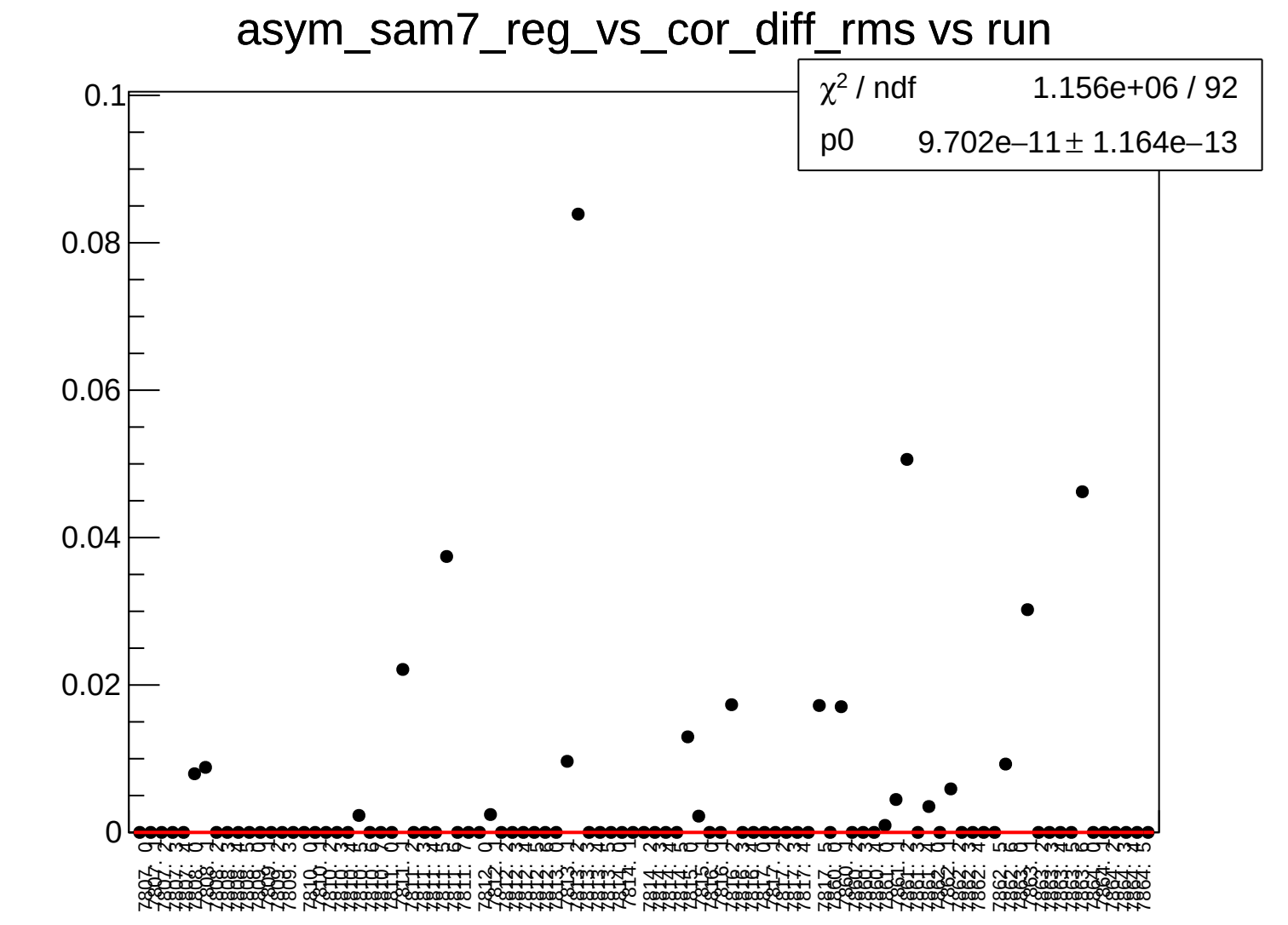

asym_sam7_mean vs run
χ² / ndf 83.63 / 92
p0 296.5 ± 1142
pull
Entries 93
Mean −29.51
Std Dev 0

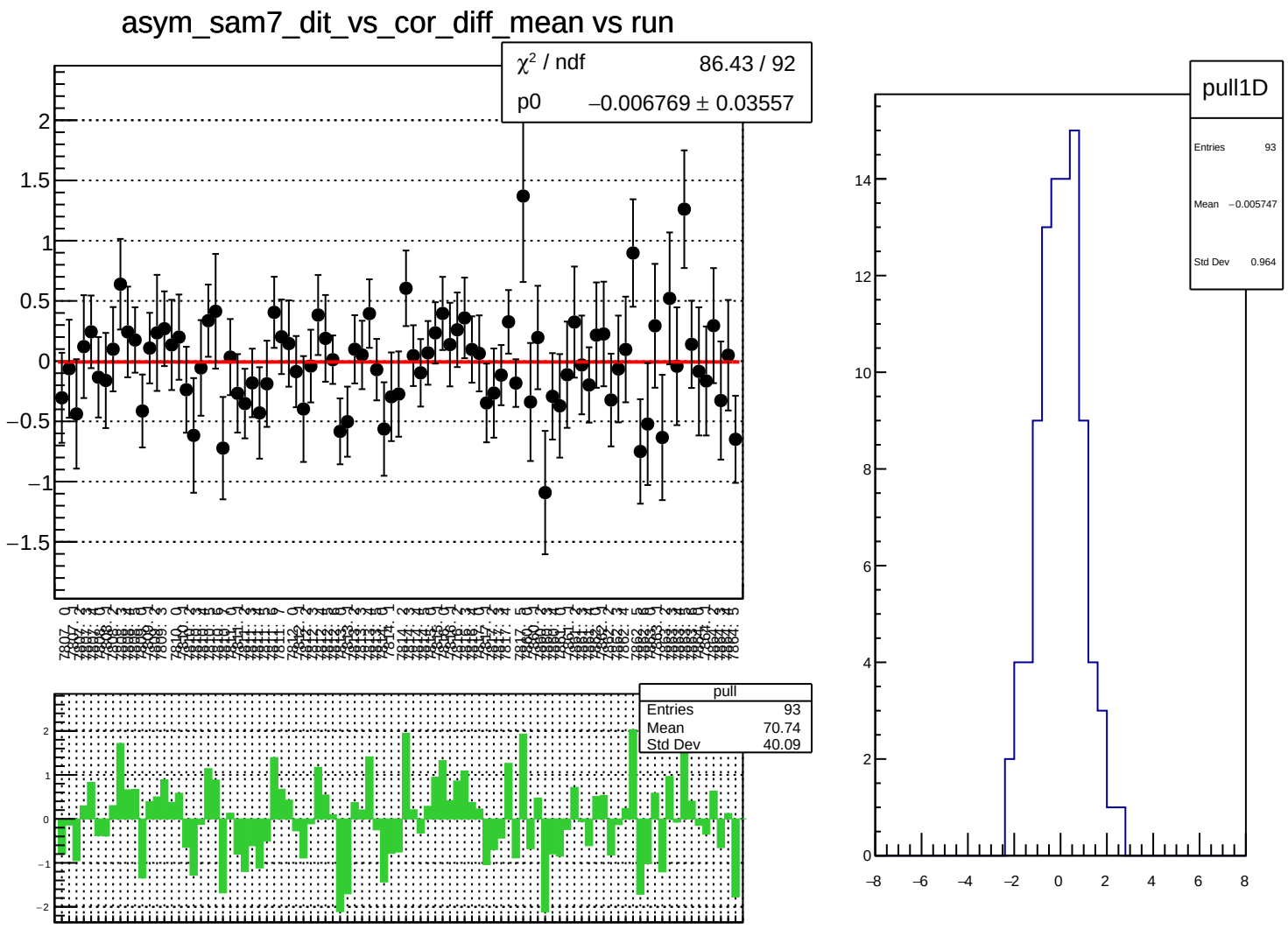

pull1D
Entries 93
Mean 0.01251
Std Dev 0.9482

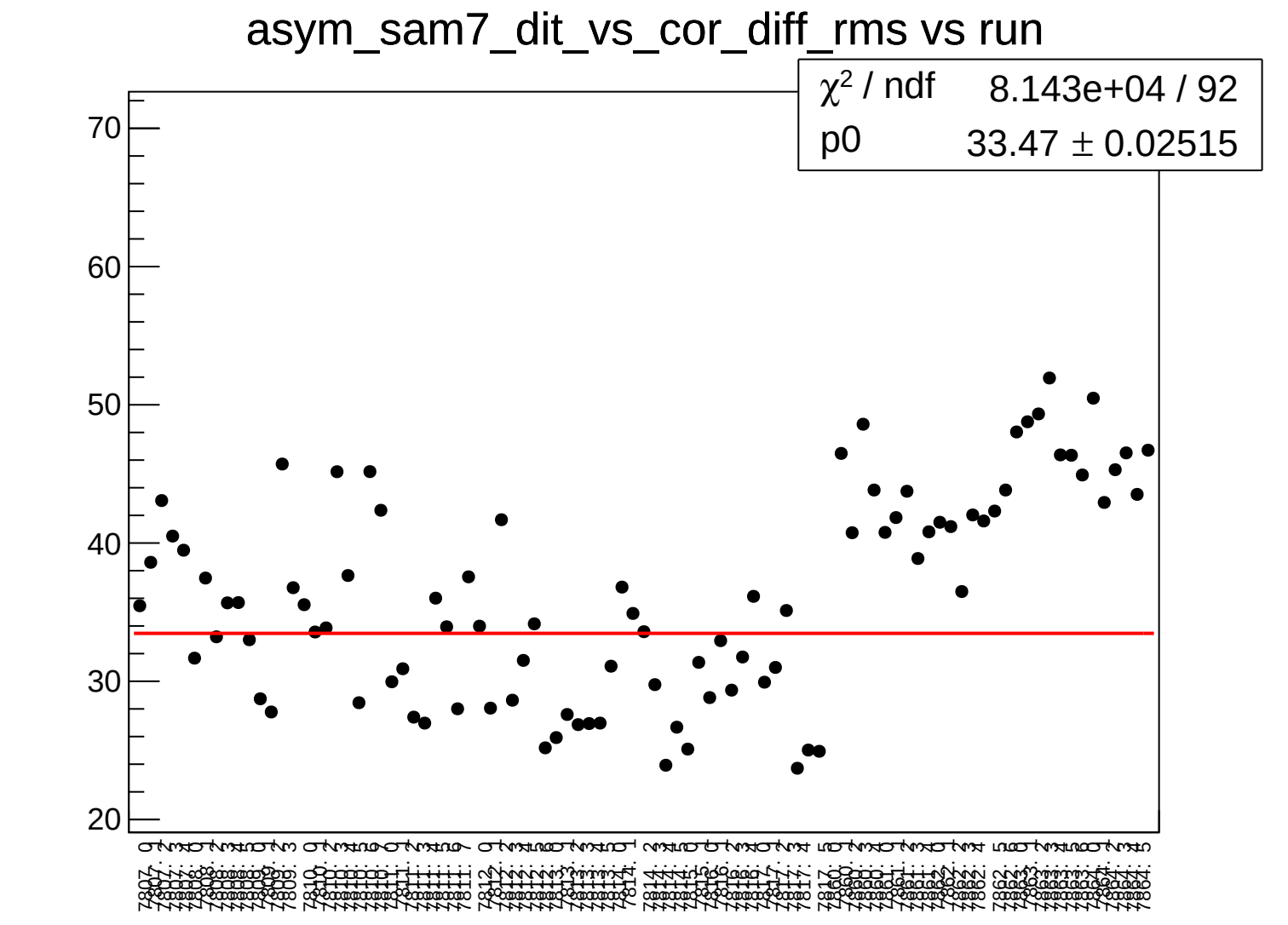

asym_sam7_rms vs run
χ² / ndf 5831 / 92
p0 1097 ± 0.8076
1250
1200
1150
1100
1050
1000
950

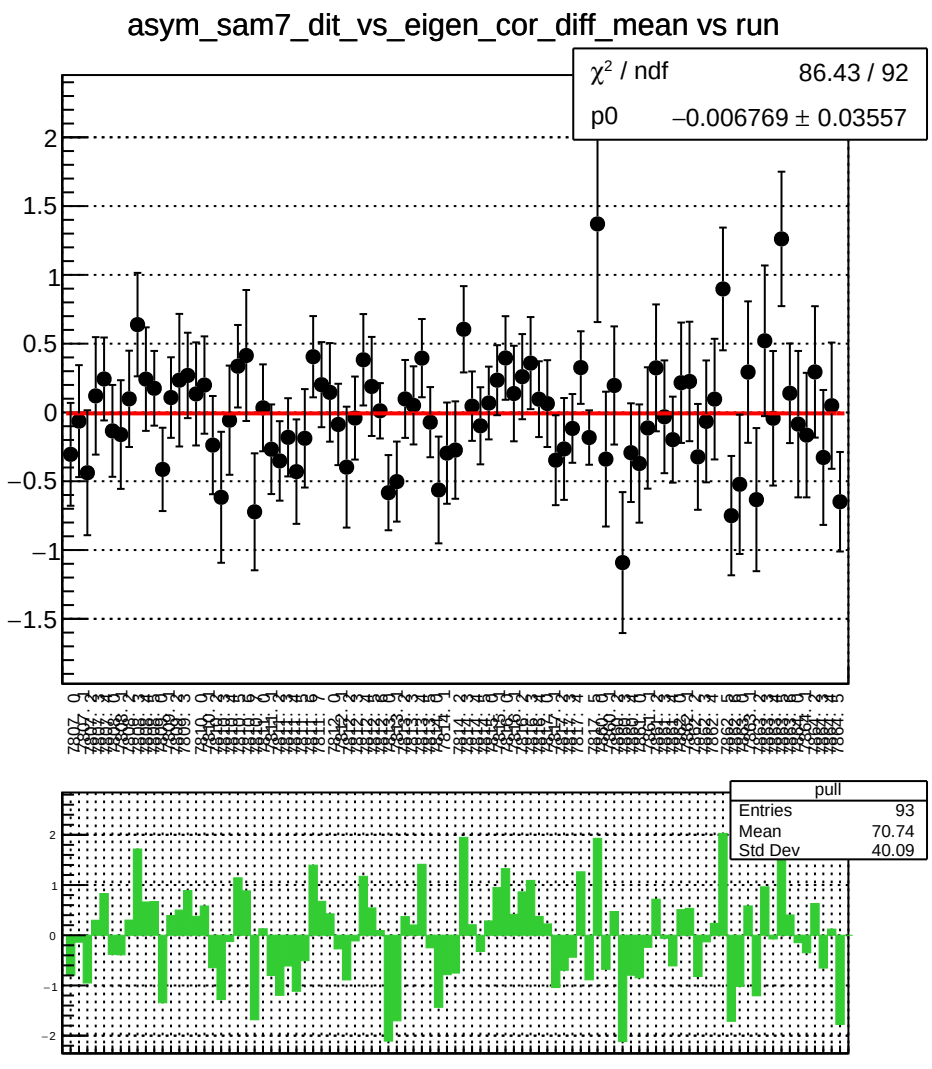

asym_sam7_reg_vs_cor_diff_mean vs run
χ² / ndf 97.36 / 92
p0 −6.485e−14 ± 1.646e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 93
Mean 60.57
Std Dev 32.41
2
1
0
−1
−2
−3

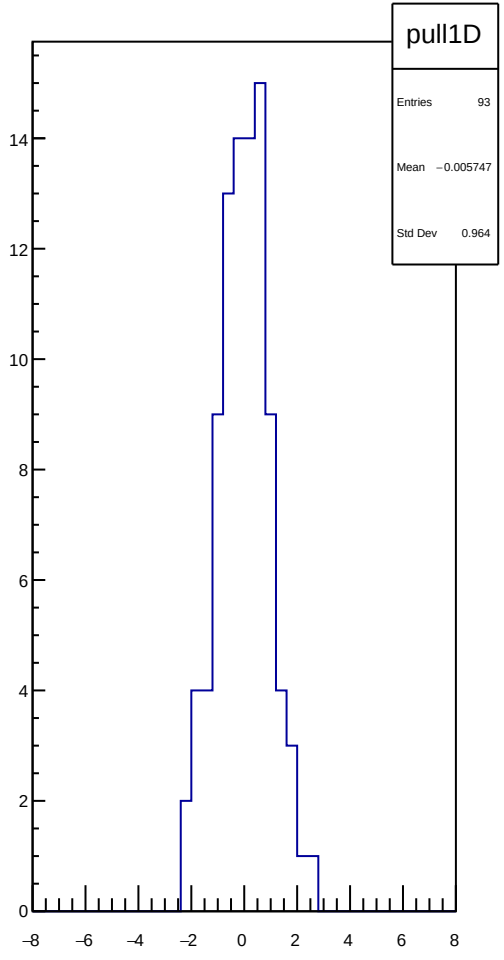

pull1D
Entries 93
Mean −0.1762
Std Dev 1.008
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

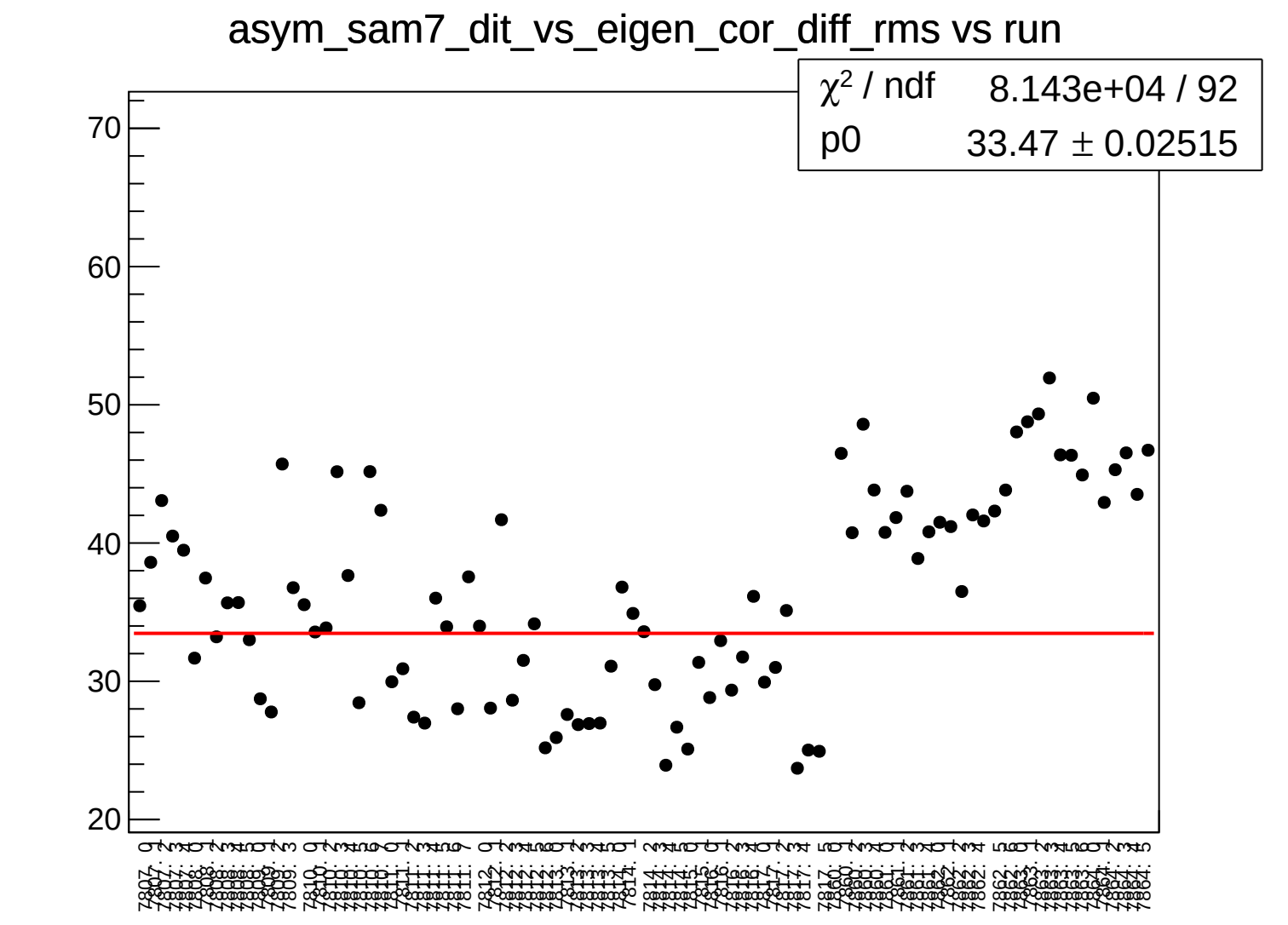

asym_sam7_reg_vs_cor_diff_rms vs run
χ² / ndf 1.156e+06 / 92
p0 9.702e−11 ± 1.164e−13
0.1
0.08
0.06
0.04
0.02
0

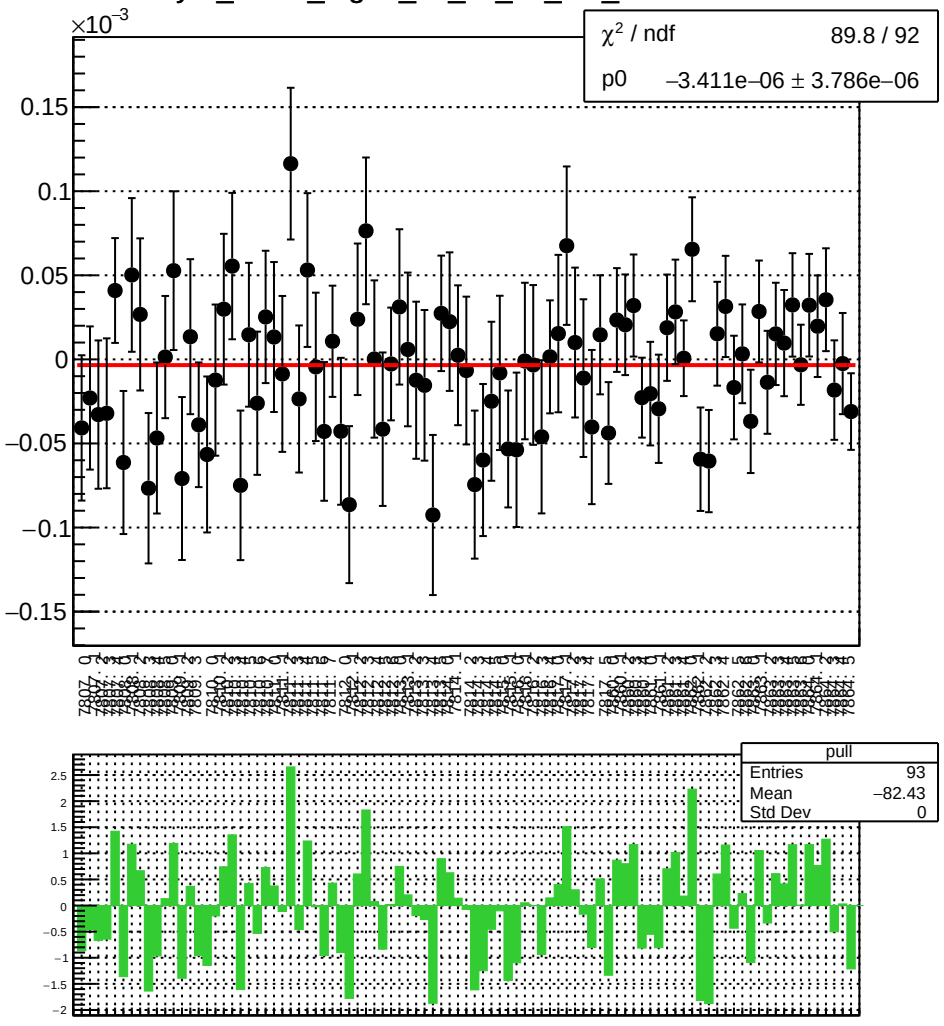

asym_sam7_dit_vs_cor_diff_mean vs run
χ² / ndf 86.43 / 92
p0 −0.006769 ± 0.03557
pull
Entries 93
Mean 70.74
Std Dev 40.09
pull1D
Entries 93
Mean −0.005747
Std Dev 0.964

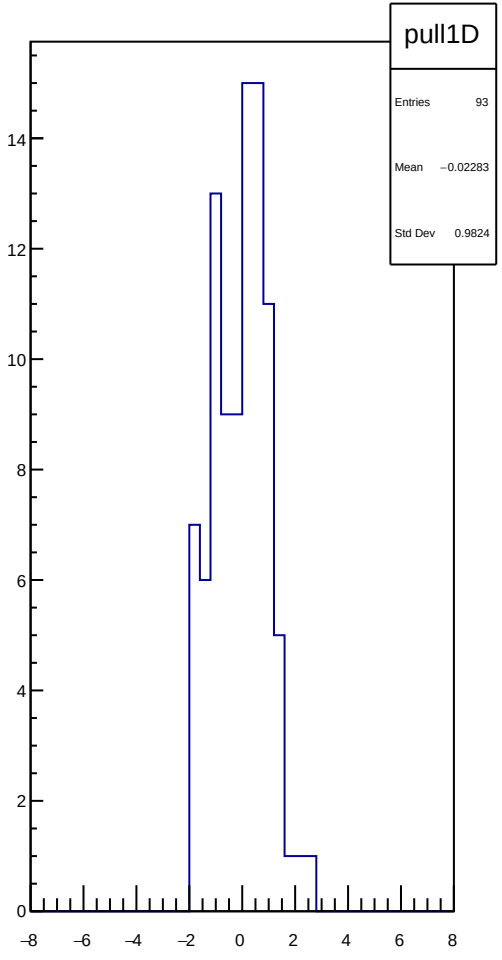

asym_sam7_dit_vs_cor_diff_rms vs run
χ² / ndf 8.143e+04 / 92
p0 33.47 ± 0.02515
70
60
50
40
30
20

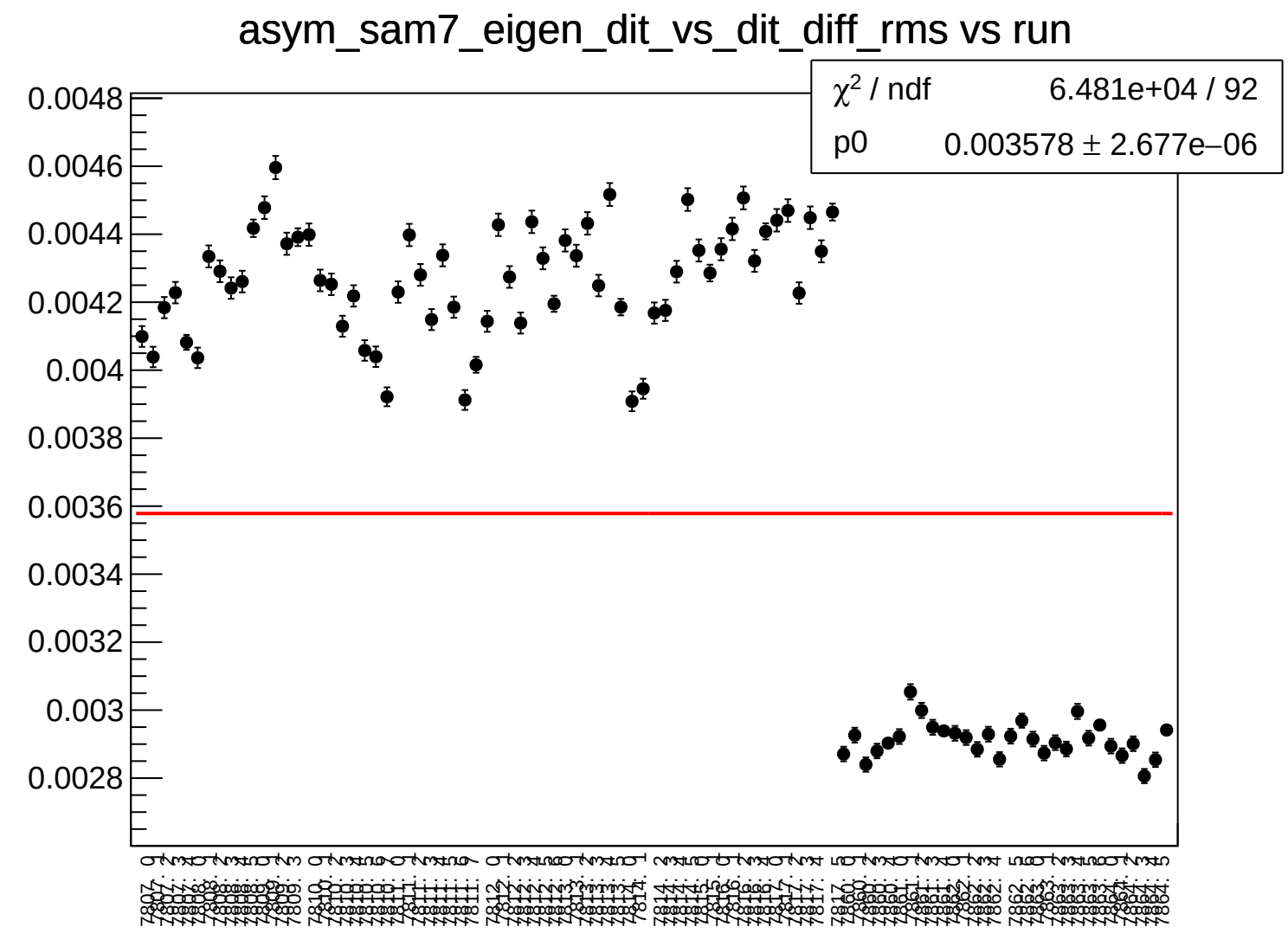

asym_sam7_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.43 / 92
p0 −0.006769 ± 0.03557
pull
Entries 93
Mean 70.74
Std Dev 40.09

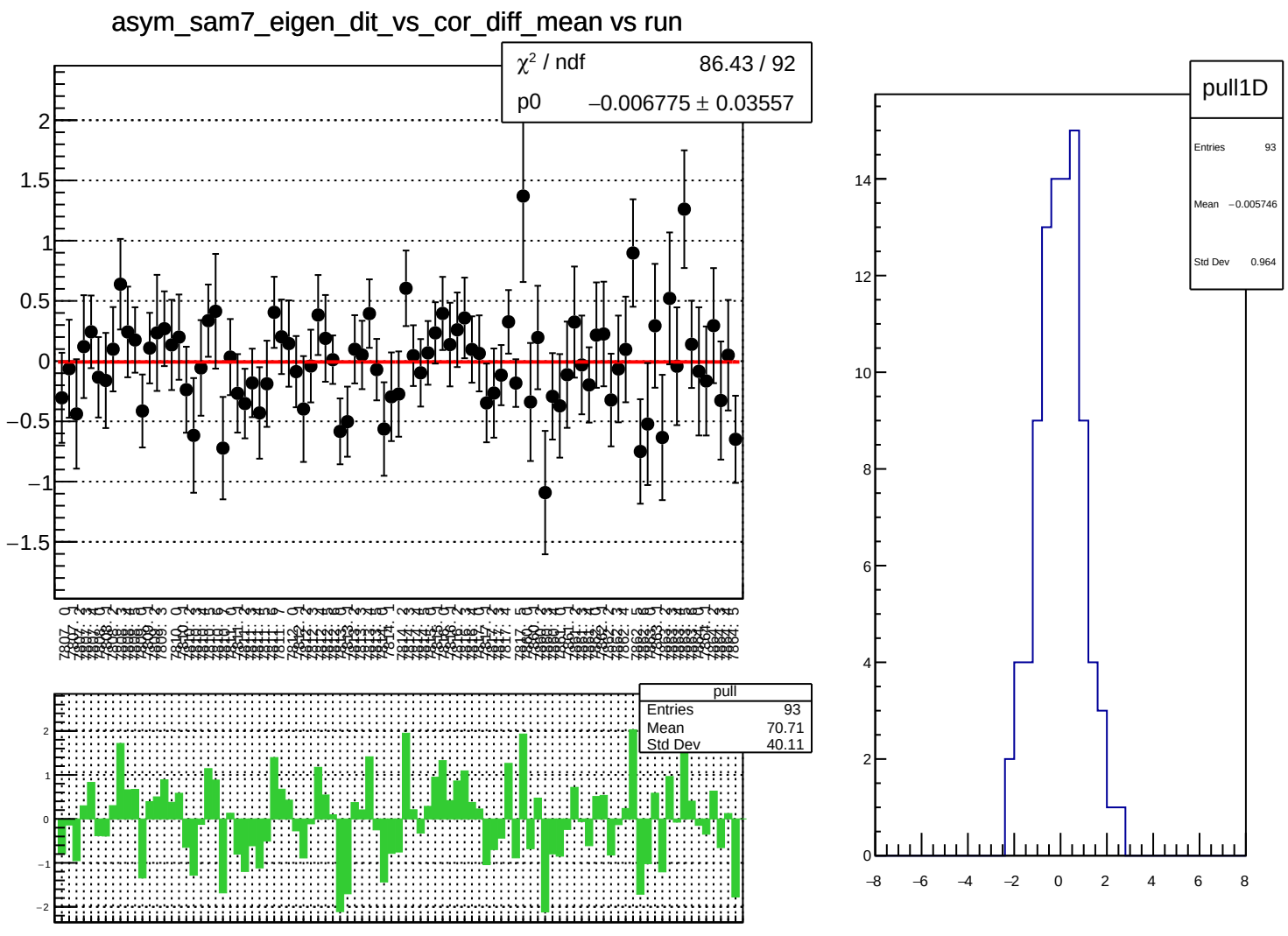

pull1D
Entries 93
Mean −0.005747
Std Dev 0.964

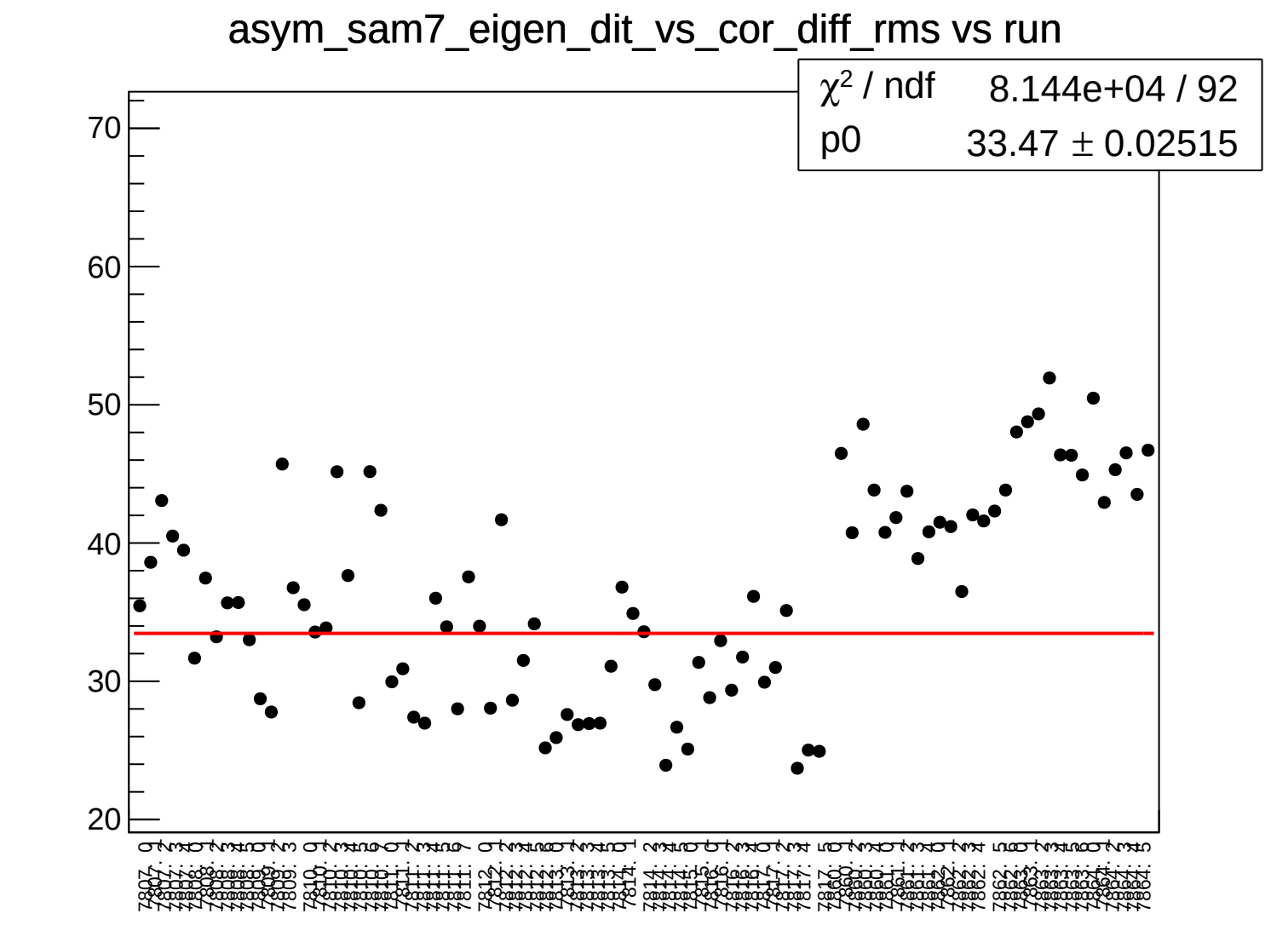

asym_sam7_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 8.143e+04 / 92
p0 33.47 ± 0.02515
70
60
50
40
30
20

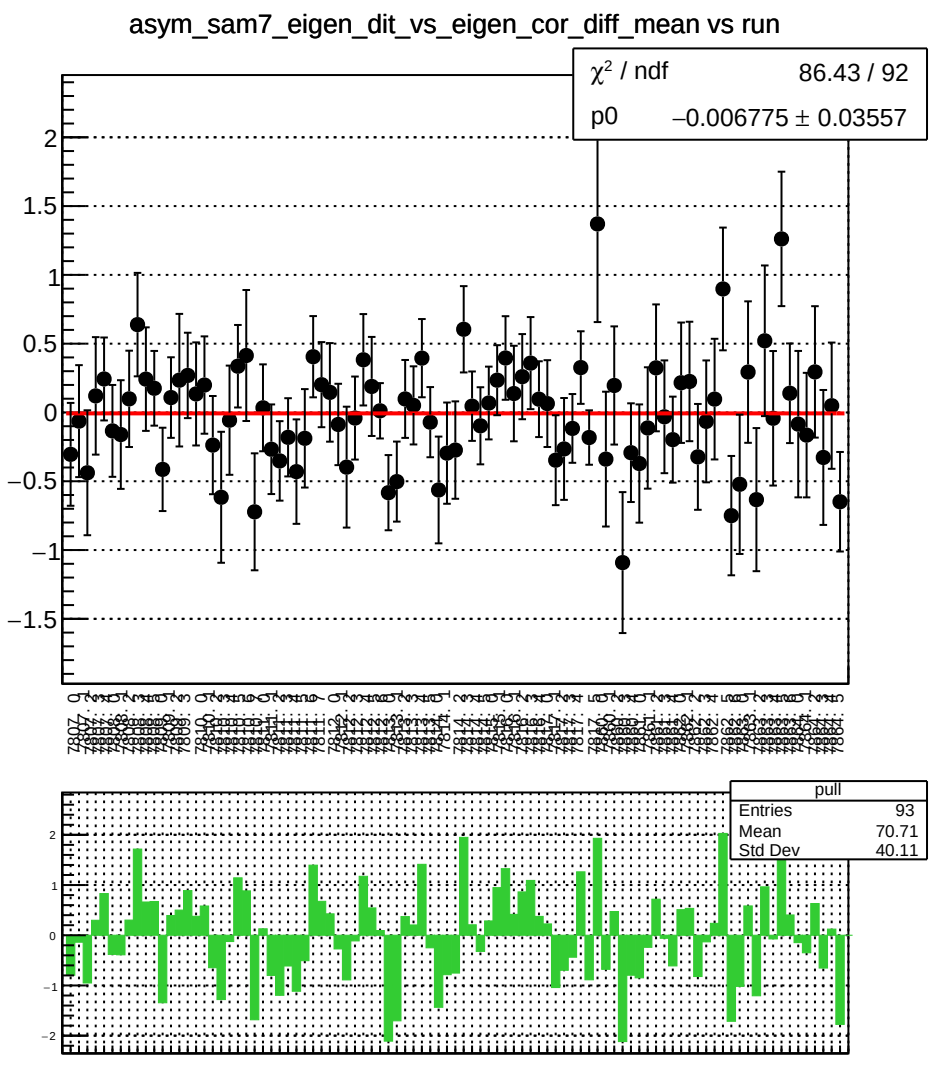

asym_sam7_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 89.8 / 92
p0 −3.411e−06 ± 3.786e−06
×10⁻³
pull
Entries 93
Mean −82.43
Std Dev 0

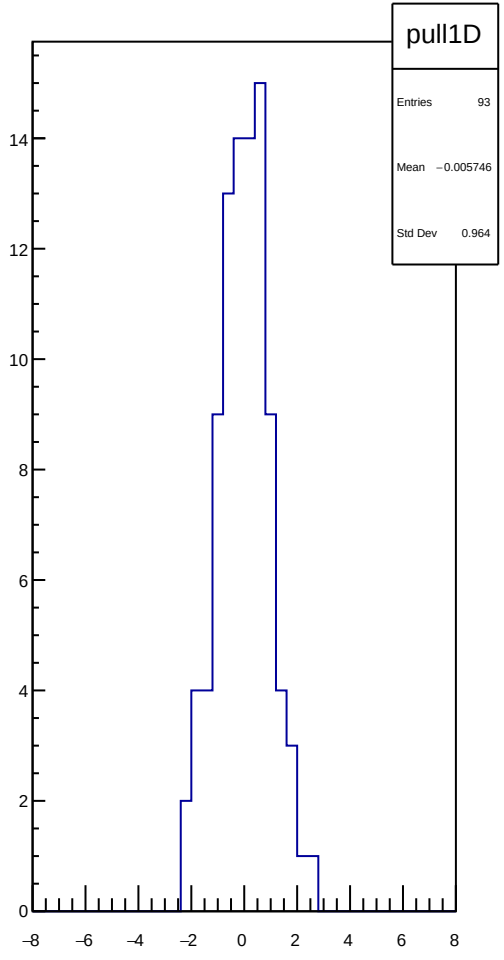

pull1D
Entries 93
Mean −0.02283
Std Dev 0.9824

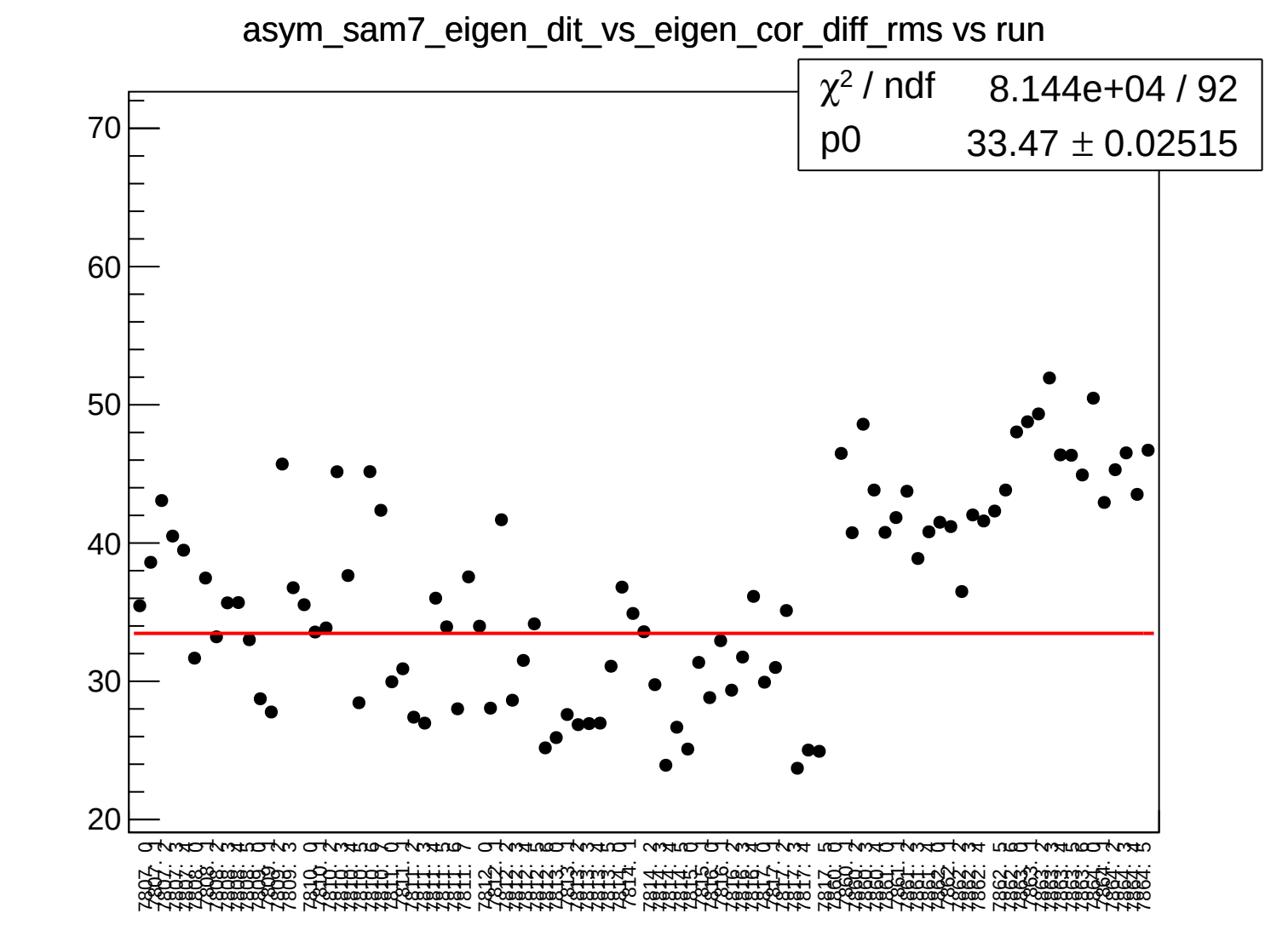

asym_sam7_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.481e+04 / 92
p0 0.003578 ± 2.677e−06
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028

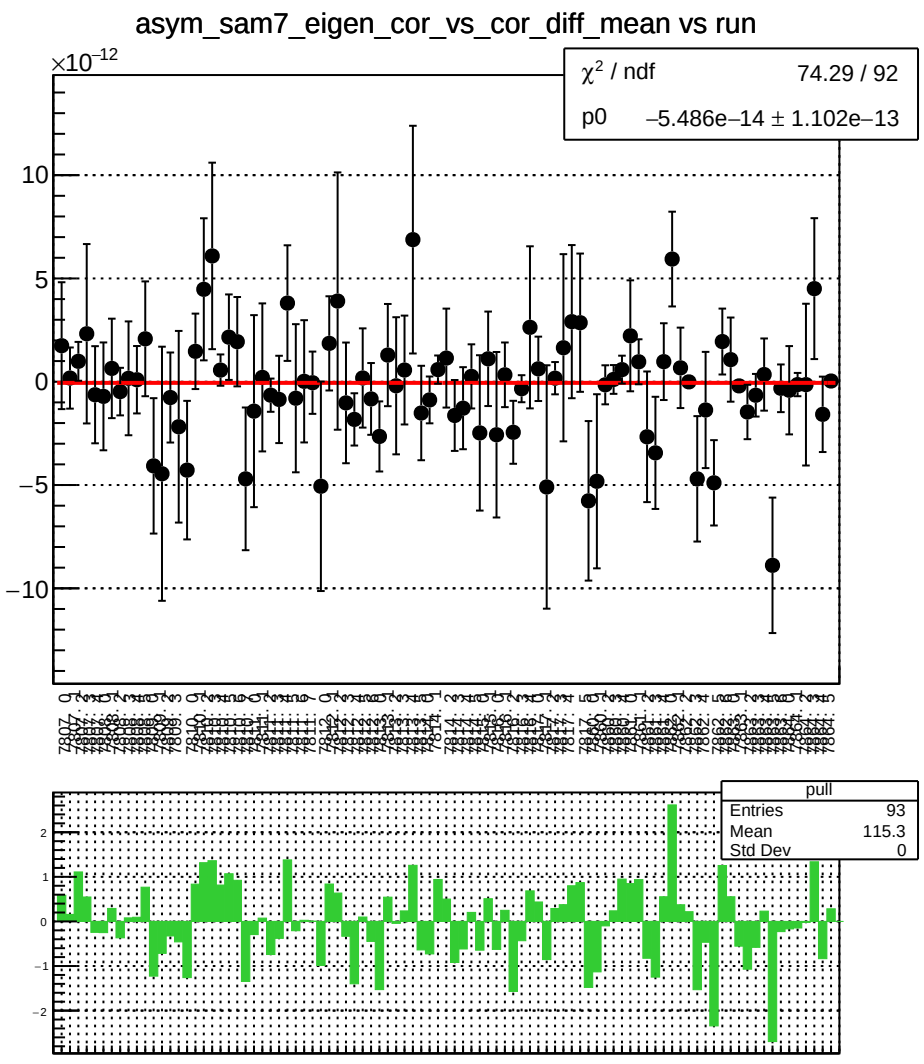

asym_sam7_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.43 / 92
p0 −0.006775 ± 0.03557
pull
Entries 93
Mean 70.71
Std Dev 40.11
pull1D
Entries 93
Mean −0.005746
Std Dev 0.964

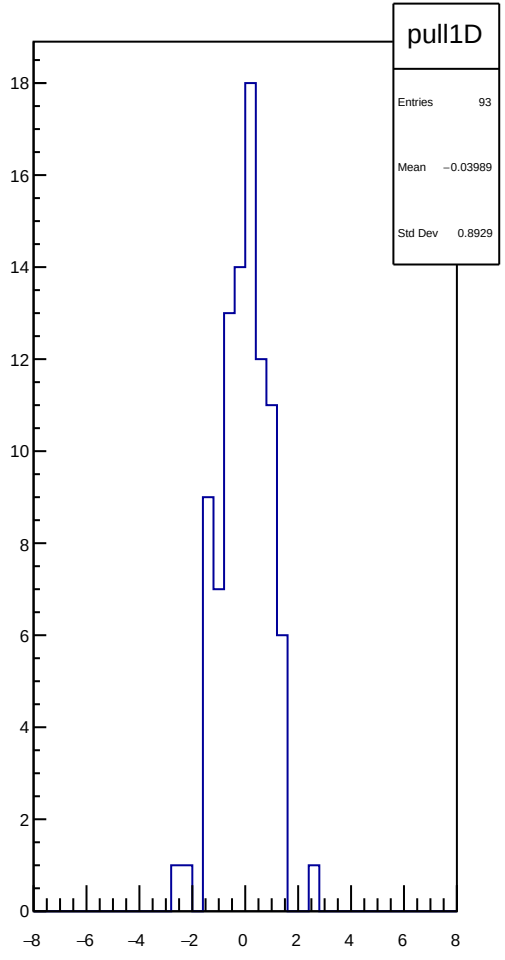

asym_sam7_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 8.144e+04 / 92
p0 33.47 ± 0.02515
70
60
50
40
30
20

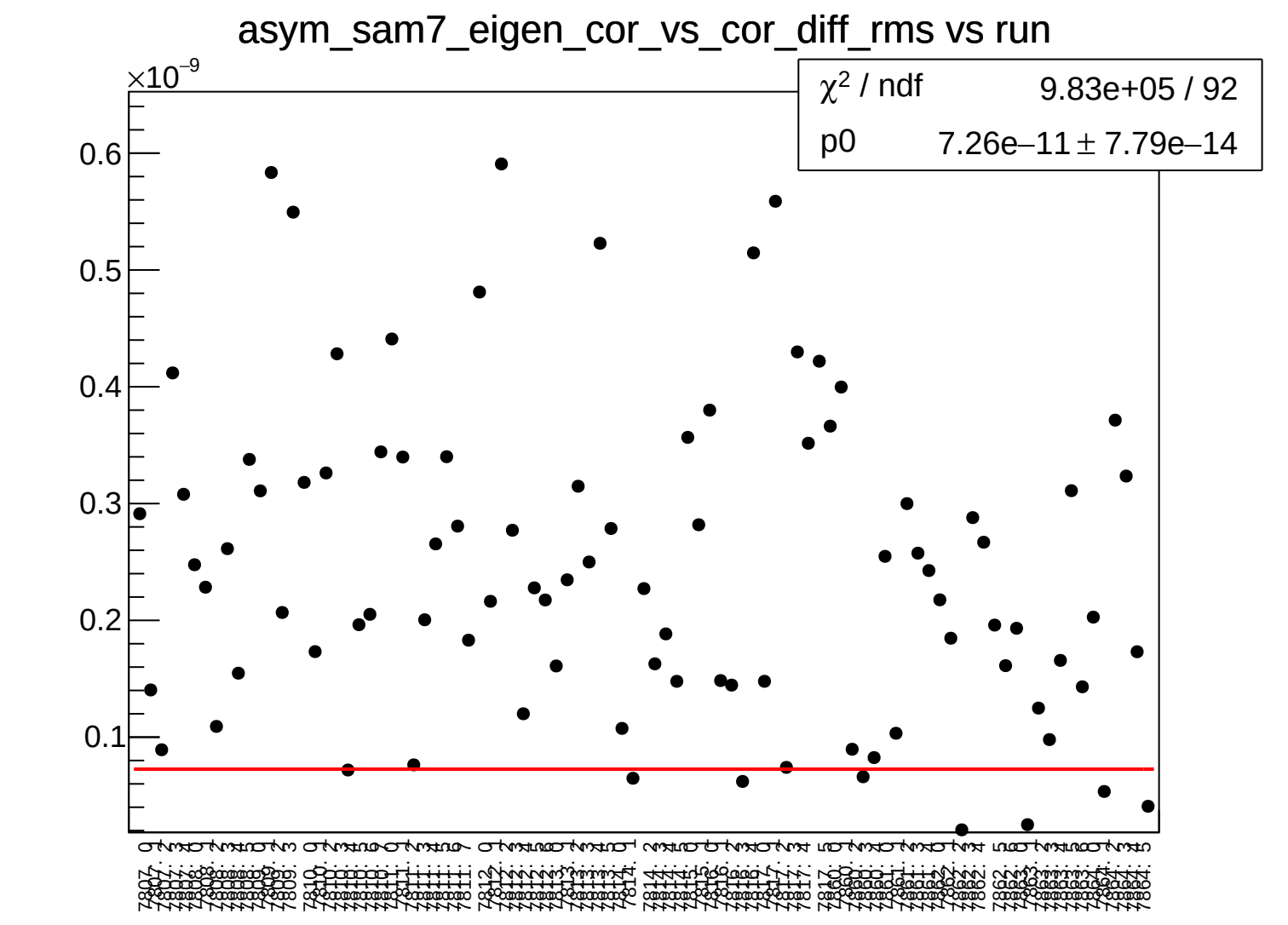

asym_sam7_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.43 / 92
p0 −0.006775 ± 0.03557
pull
Entries 93
Mean 70.71
Std Dev 40.11

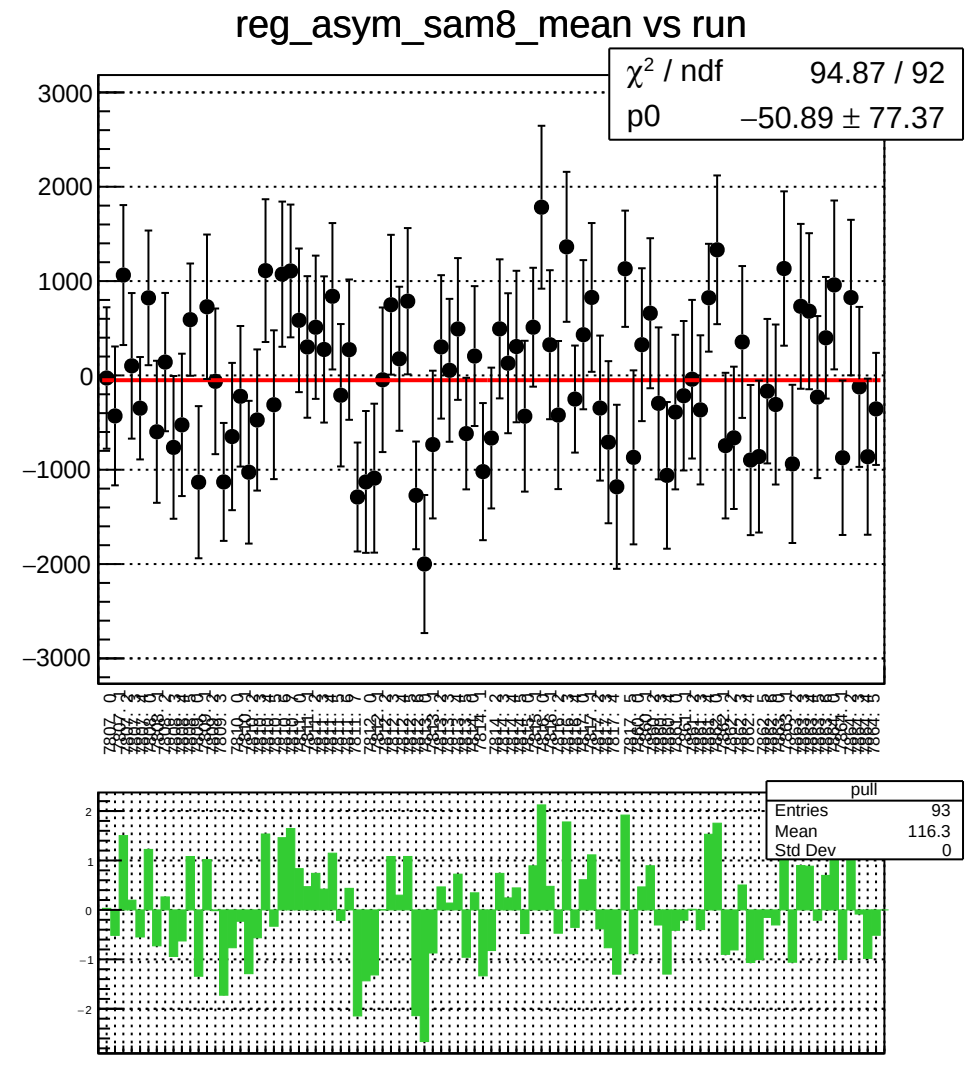

pull1D
Entries 93
Mean −0.005746
Std Dev 0.964

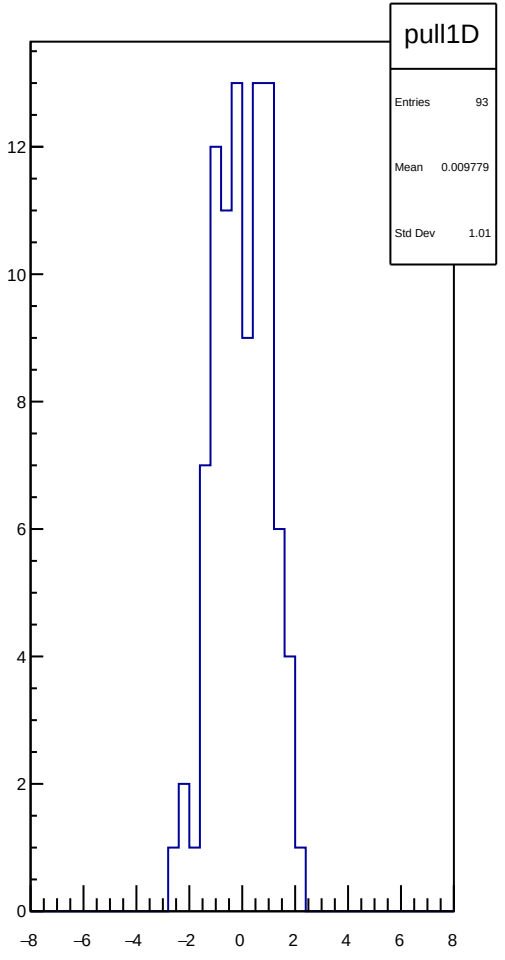

asym_sam7_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.144e+04 / 92
p0 33.47 ± 0.02515
70
60
50
40
30
20

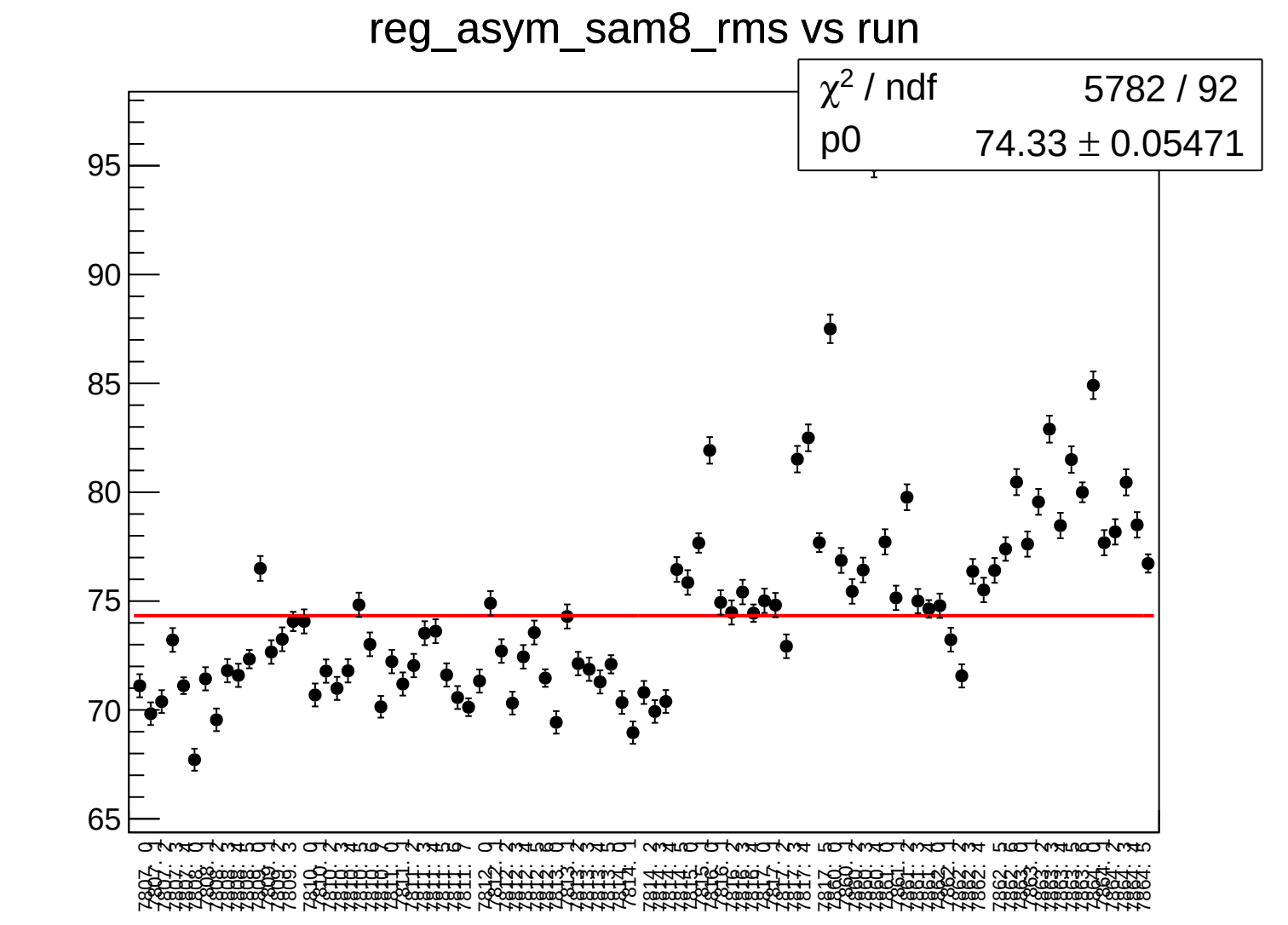

asym_sam7_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 74.29 / 92
p0 −5.486e−14 ± 1.102e−13
10
5
0
−5
−10
pull
Entries 93
Mean 115.3
Std Dev 0
2
1
0
−1
−2

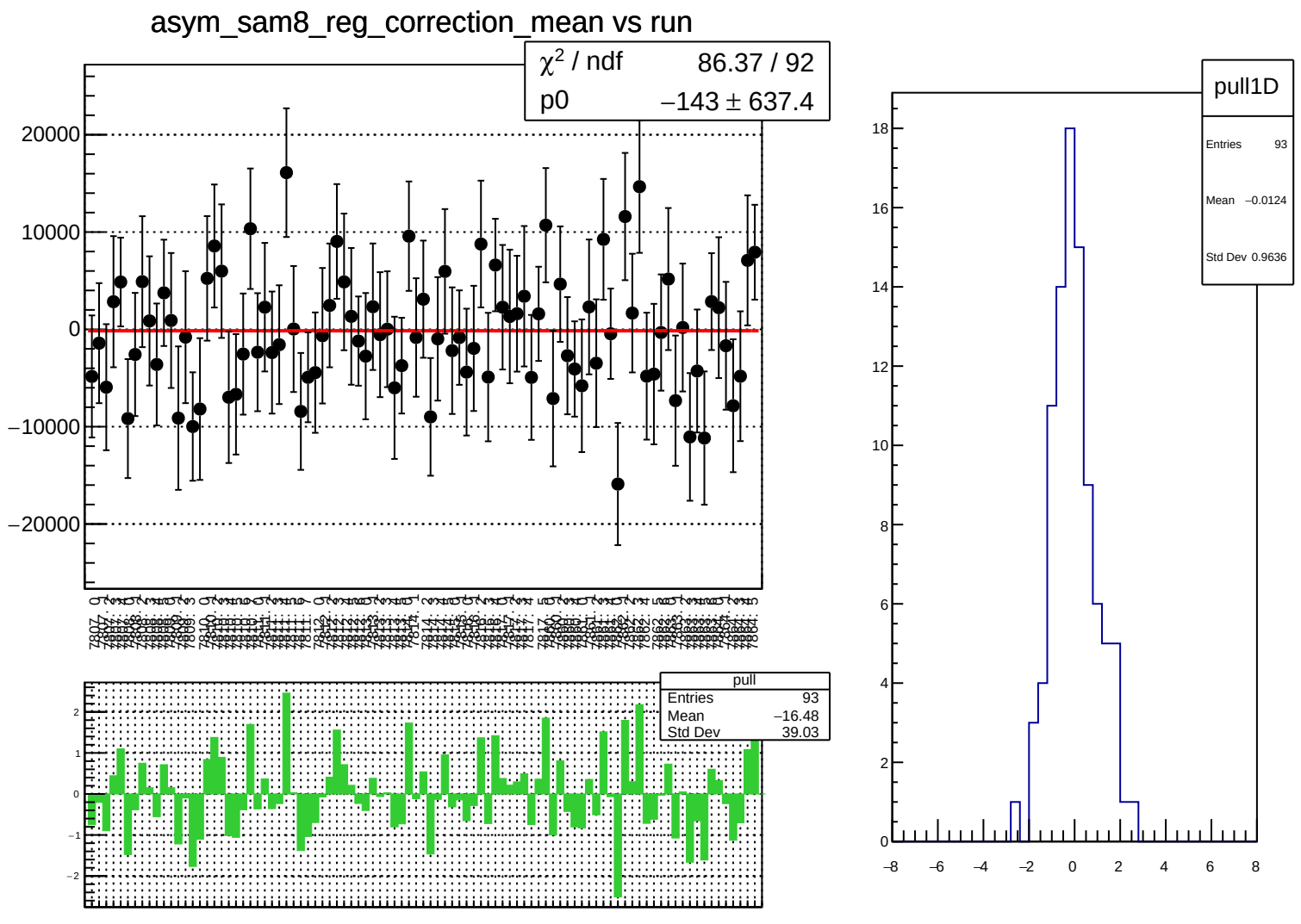

pull1D
Entries 93
Mean −0.03989
Std Dev 0.8929
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

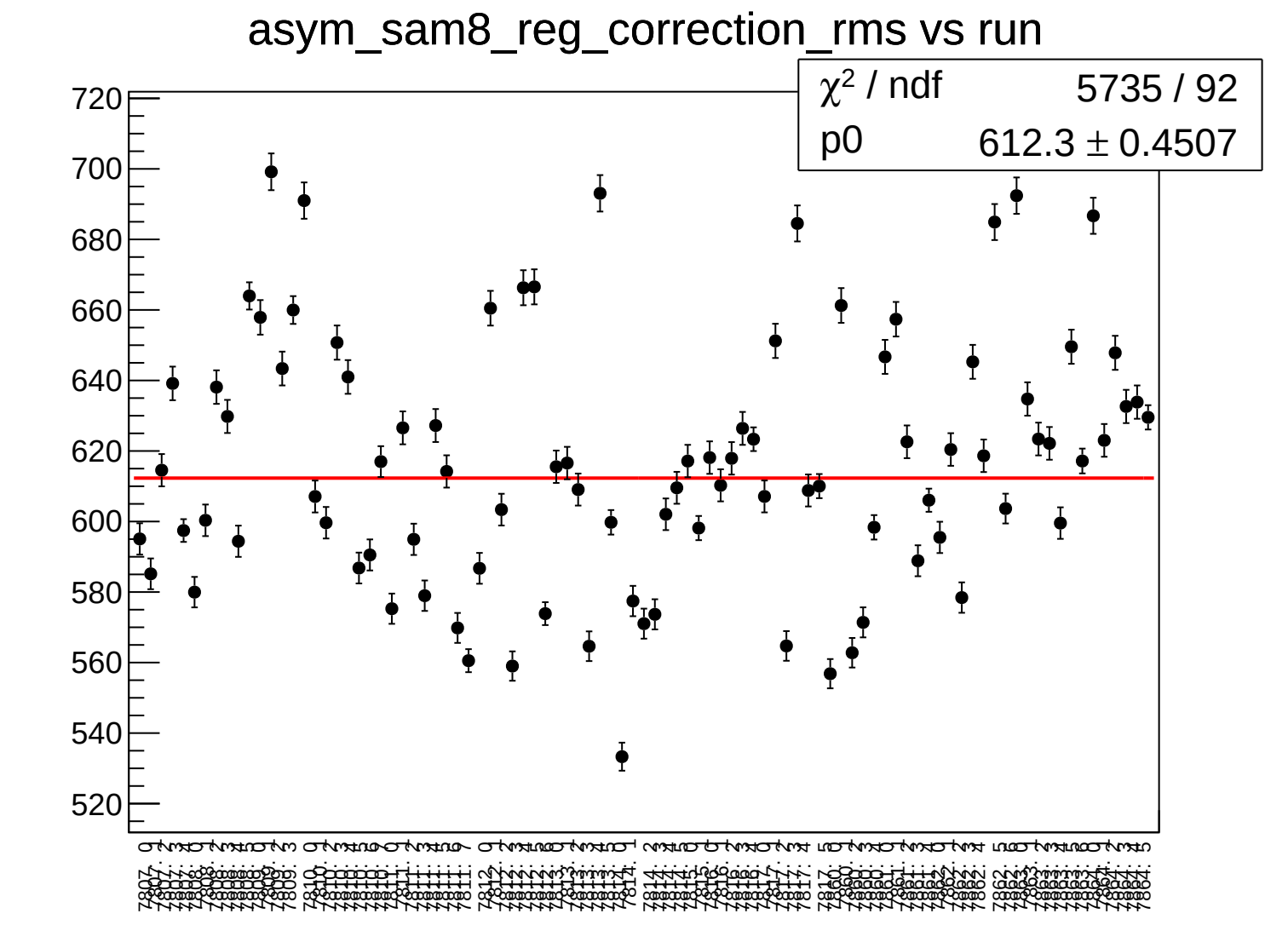

asym_sam7_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.83e+05 / 92
p0 7.26e−11 ± 7.79e−14
0.6
0.5
0.4
0.3
0.2
0.1

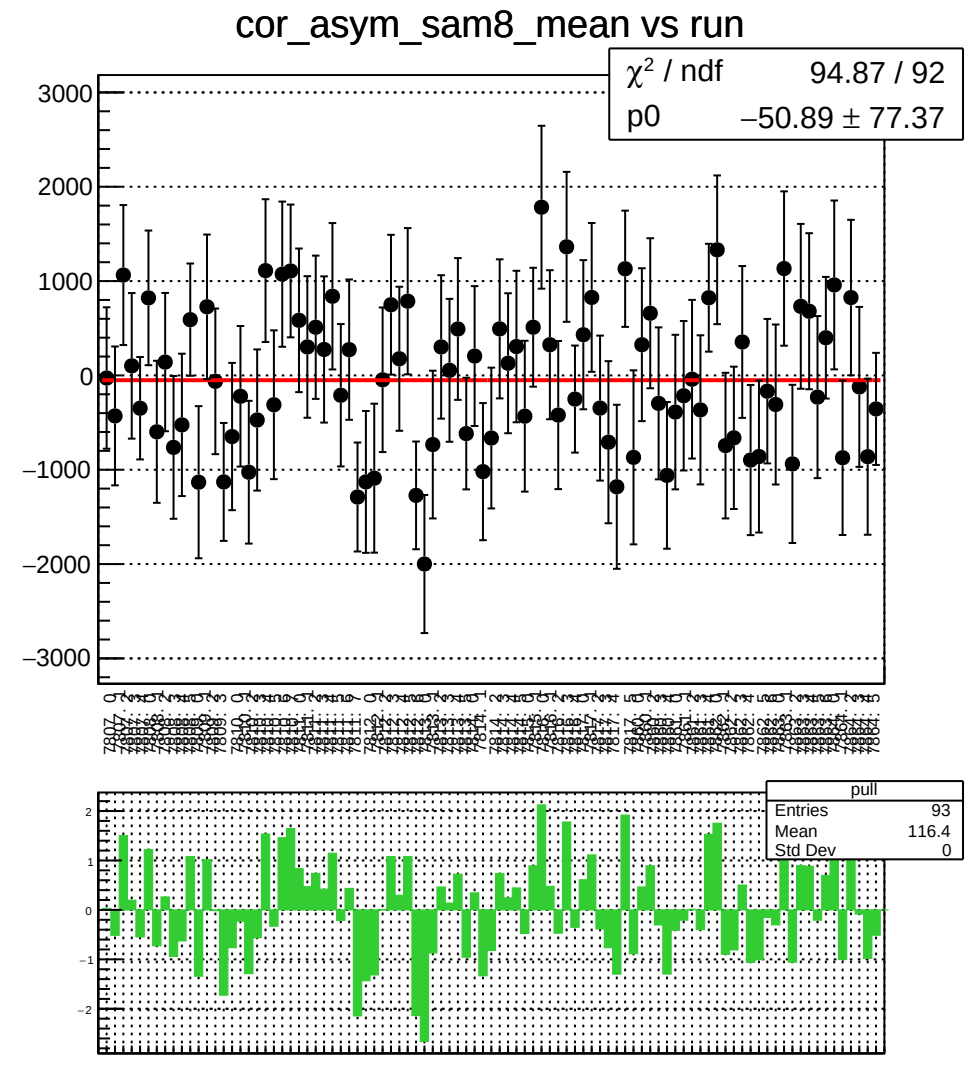

reg_asym_sam8_mean vs run
χ² / ndf 94.87 / 92
p0 −50.89 ± 77.37
pull
Entries 93
Mean 116.3
Std Dev 0

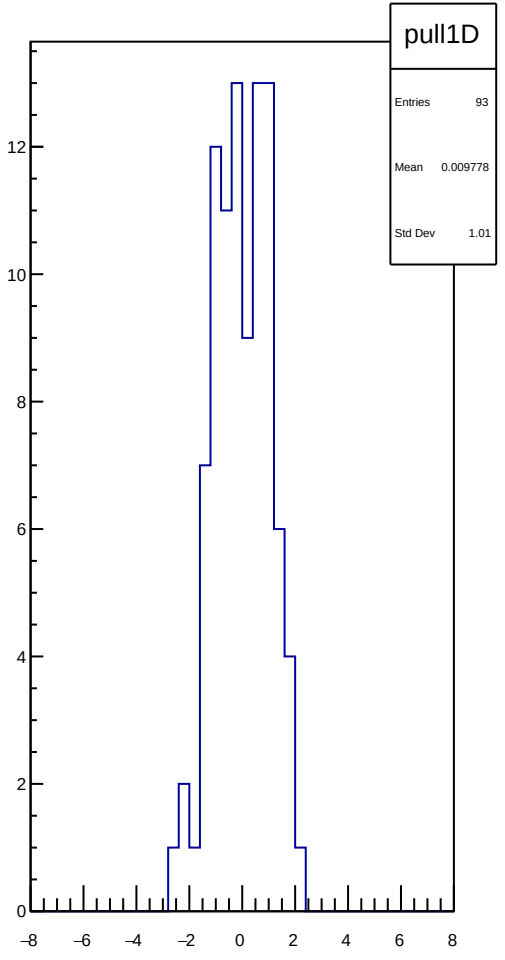

pull1D
Entries 93
Mean 0.009779
Std Dev 1.01

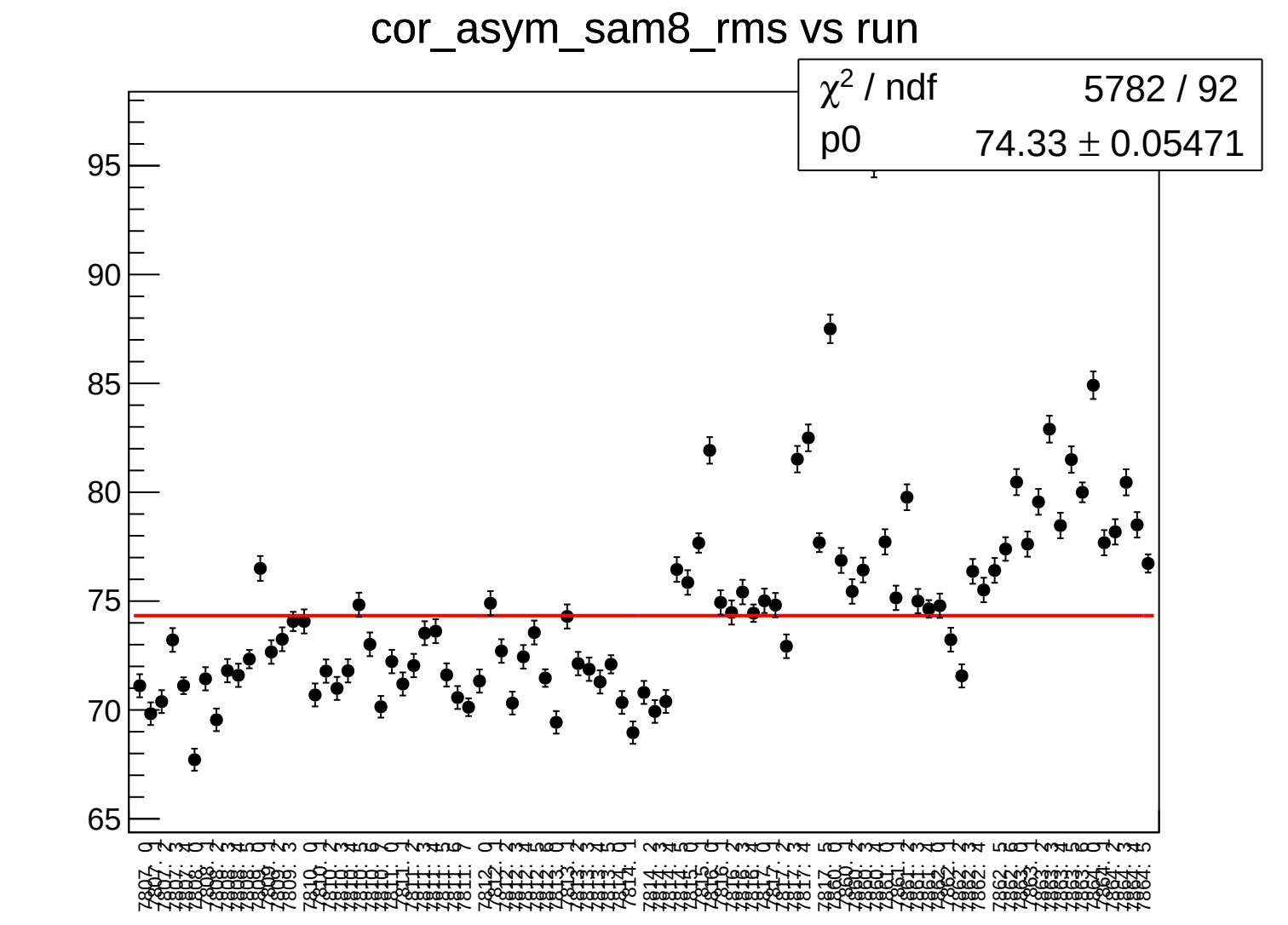

reg_asym_sam8_rms vs run
χ^2 / ndf 5782 / 92
p0 74.33 ± 0.05471
95
90
85
80
75
70
65

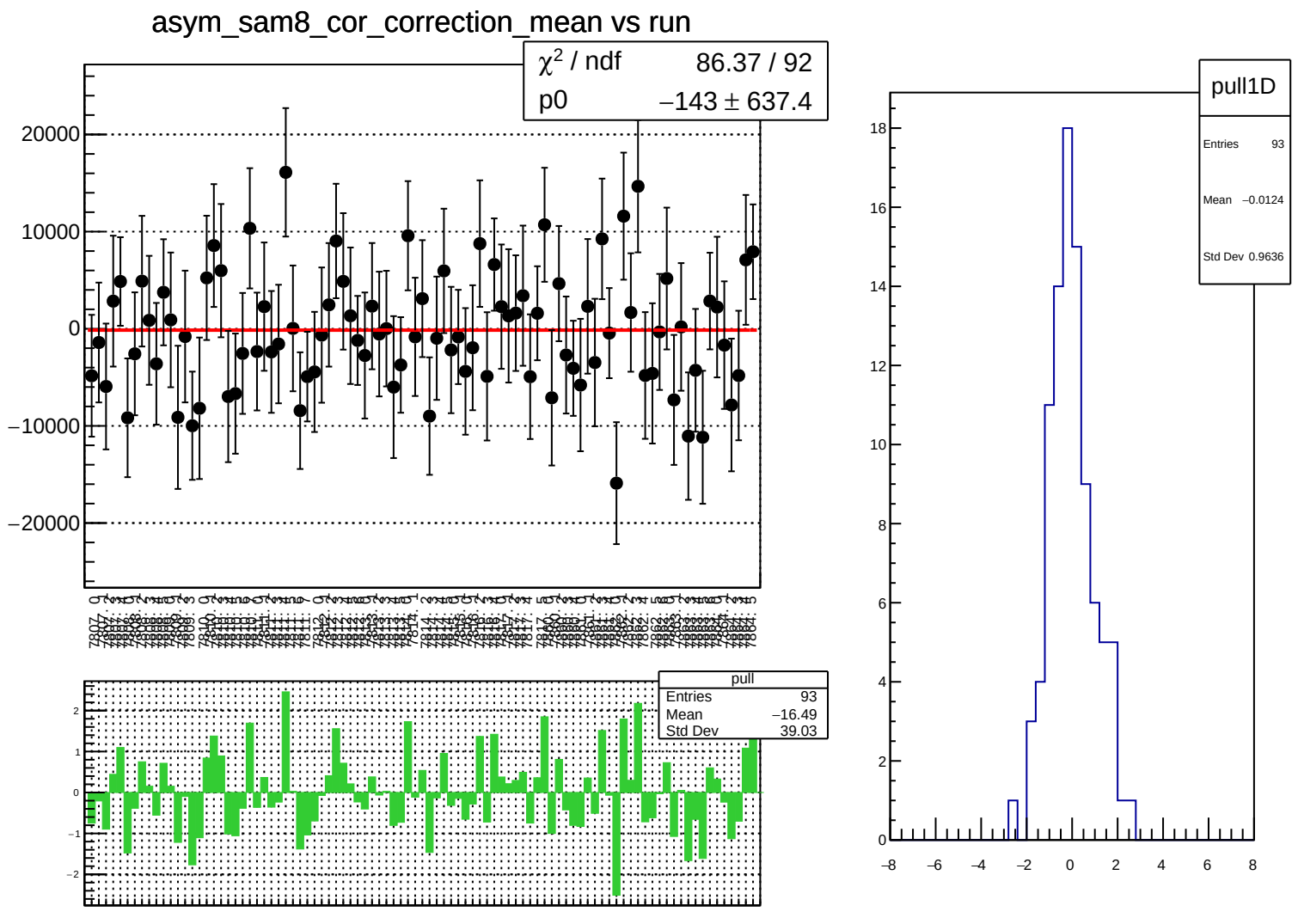

asym_sam8_reg_correction_mean vs run
χ² / ndf 86.37 / 92
p0 −143 ± 637.4
20000
10000
0
−10000
−20000
pull
Entries 93
Mean −16.48
Std Dev 39.03
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.0124
Std Dev 0.9636
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

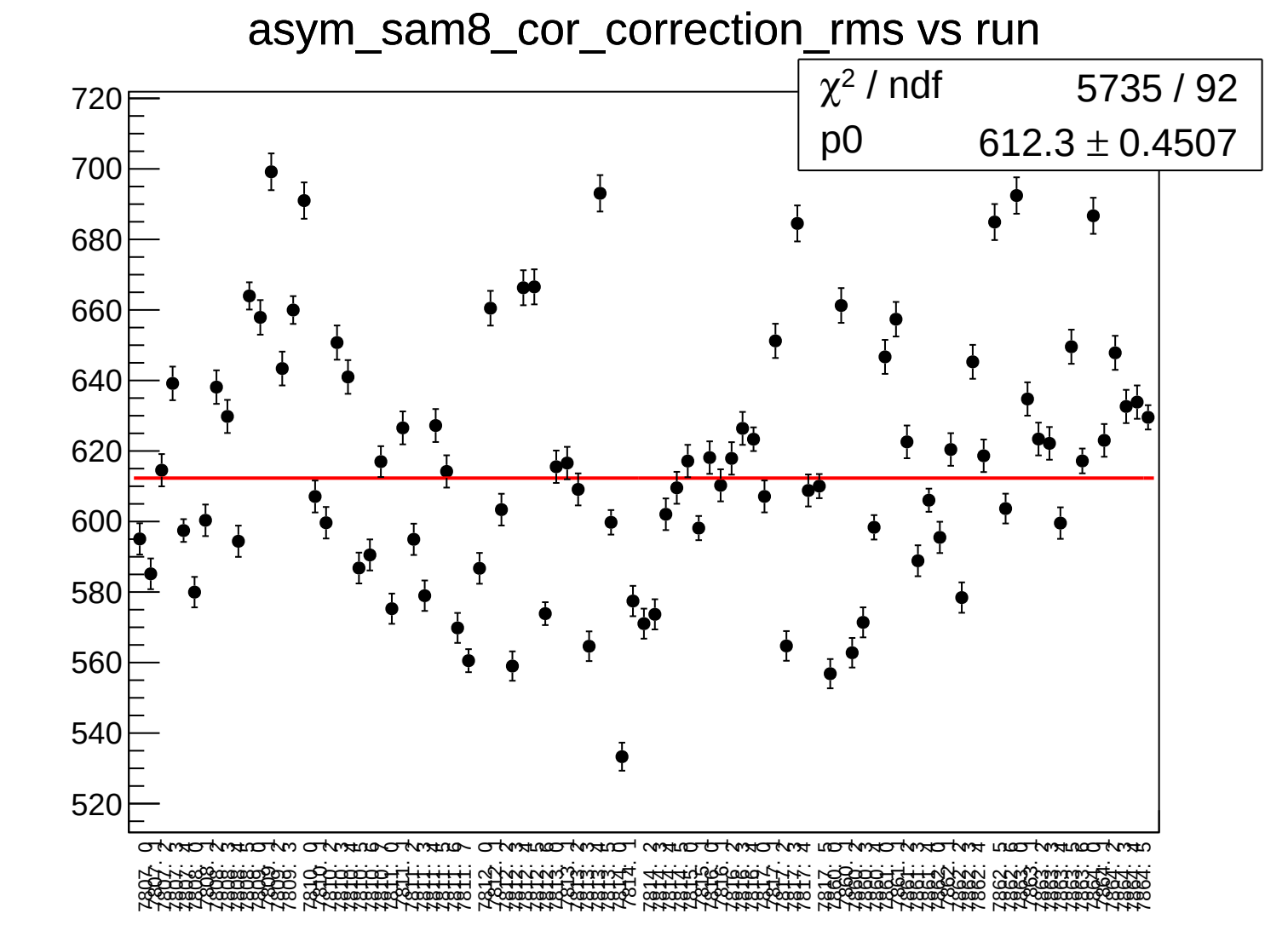

asym_sam8_reg_correction_rms vs run
χ² / ndf 5735 / 92
p0 612.3 ± 0.4507
720
700
680
660
640
620
600
580
560
540
520

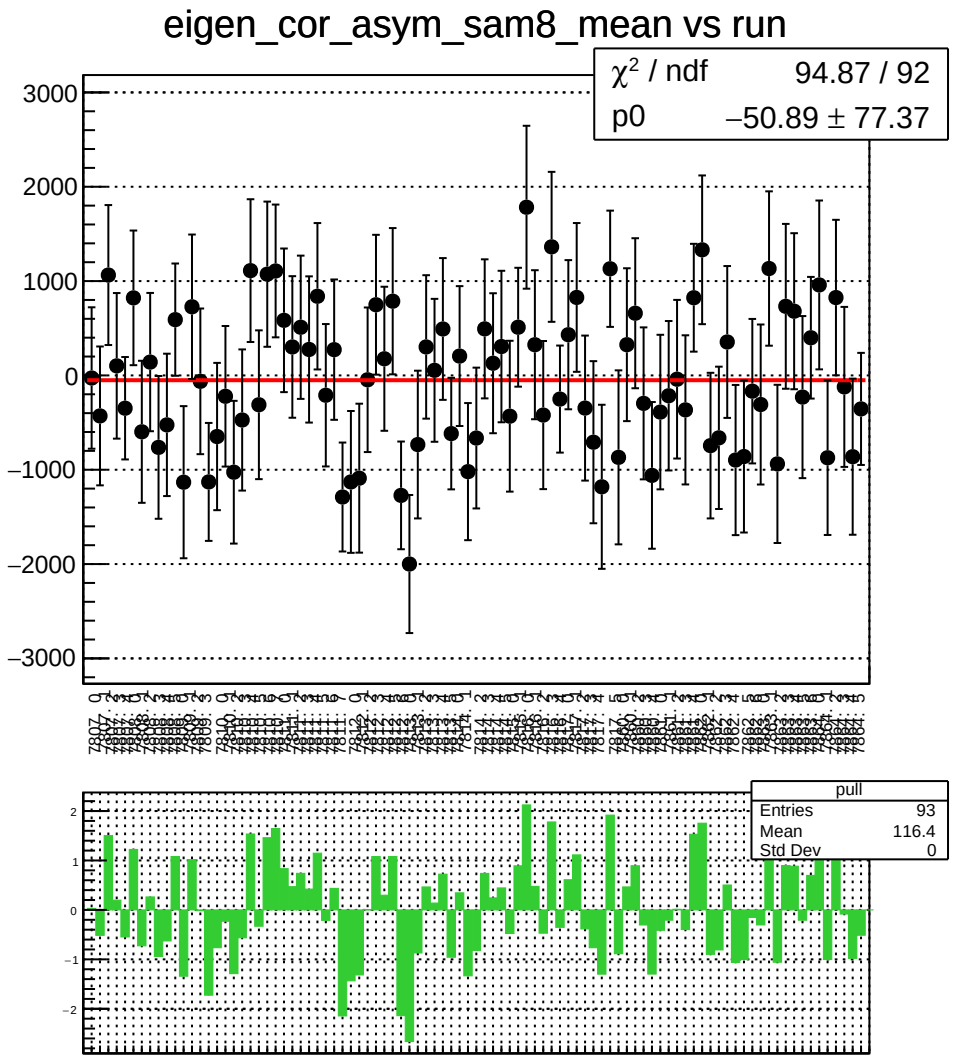

cor_asym_sam8_mean vs run
χ² / ndf 94.87 / 92
p0 −50.89 ± 77.37
pull
Entries 93
Mean 116.4
Std Dev 0

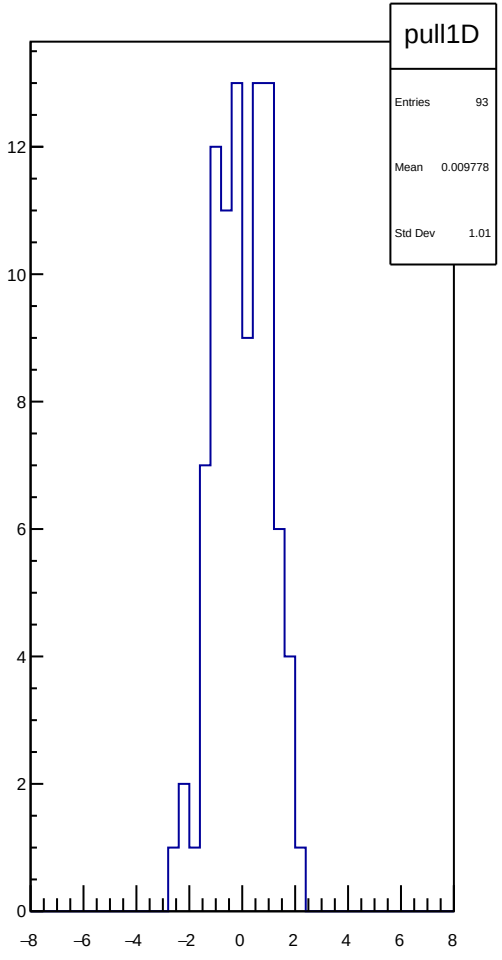

pull1D
Entries 93
Mean 0.009778
Std Dev 1.01

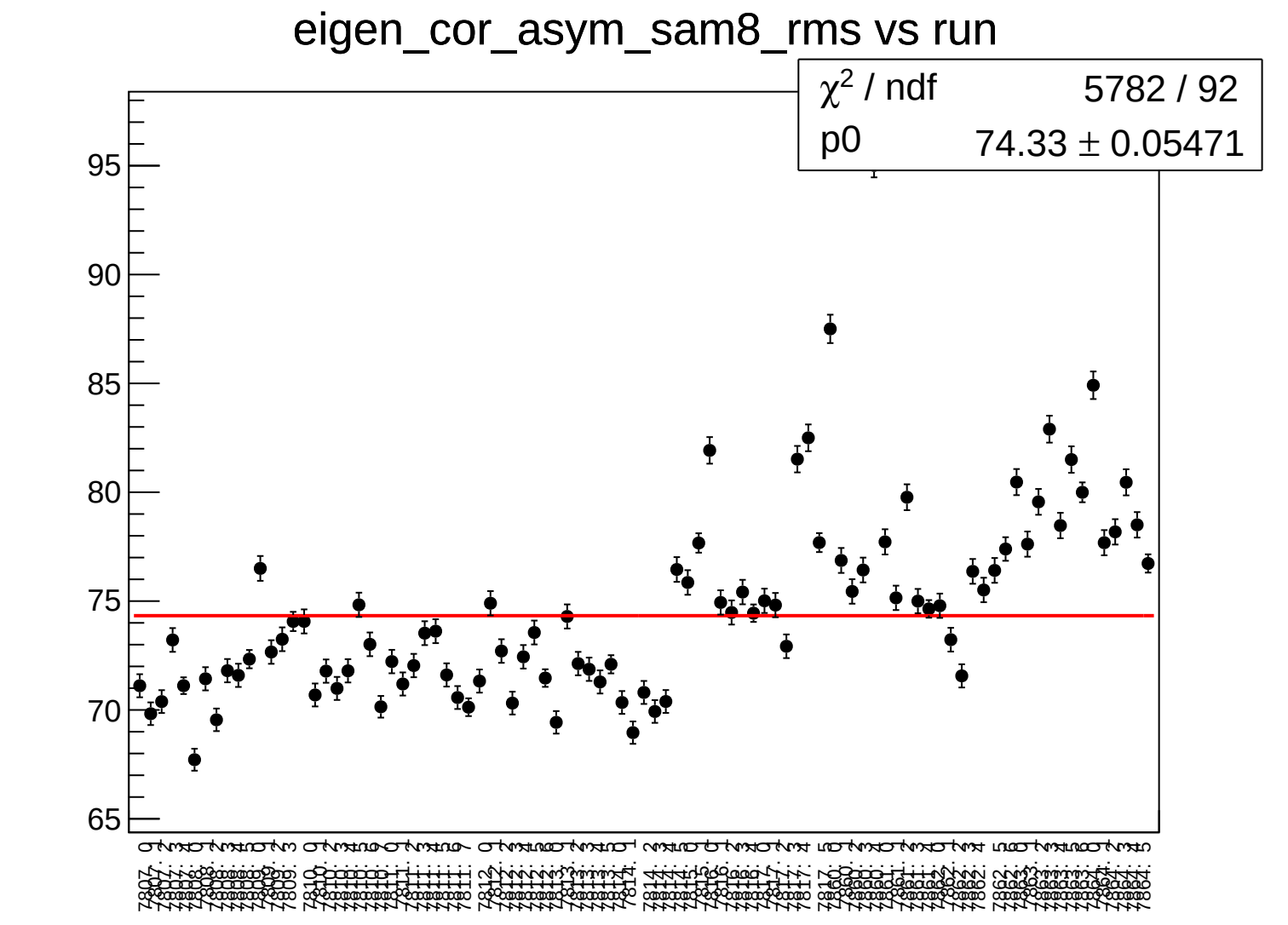

cor_asym_sam8_rms vs run
χ^2 / ndf 5782 / 92
p0 74.33 ± 0.05471
95
90
85
80
75
70
65

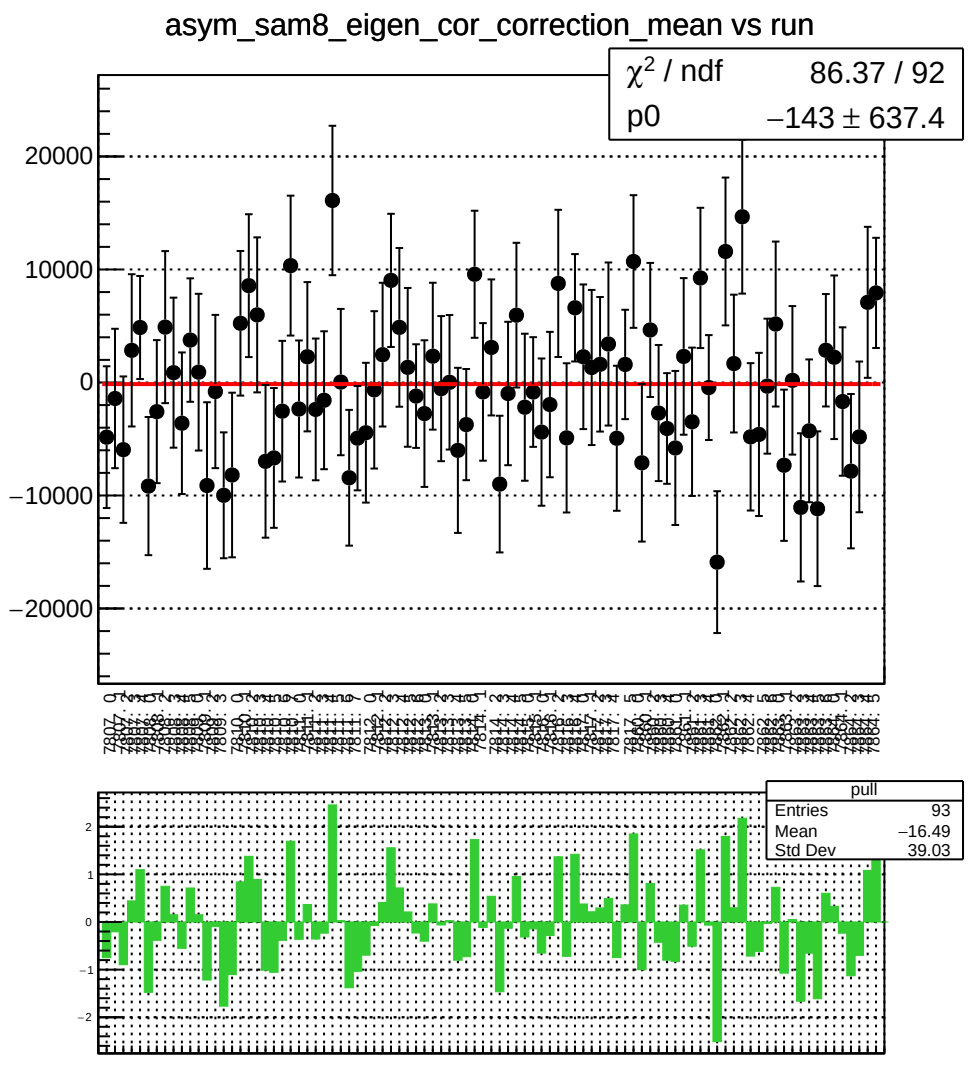

asym_sam8_cor_correction_mean vs run
χ² / ndf 86.37 / 92
p0 −143 ± 637.4
20000
10000
0
−10000
−20000
pull
Entries 93
Mean −16.49
Std Dev 39.03
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.0124
Std Dev 0.9636
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

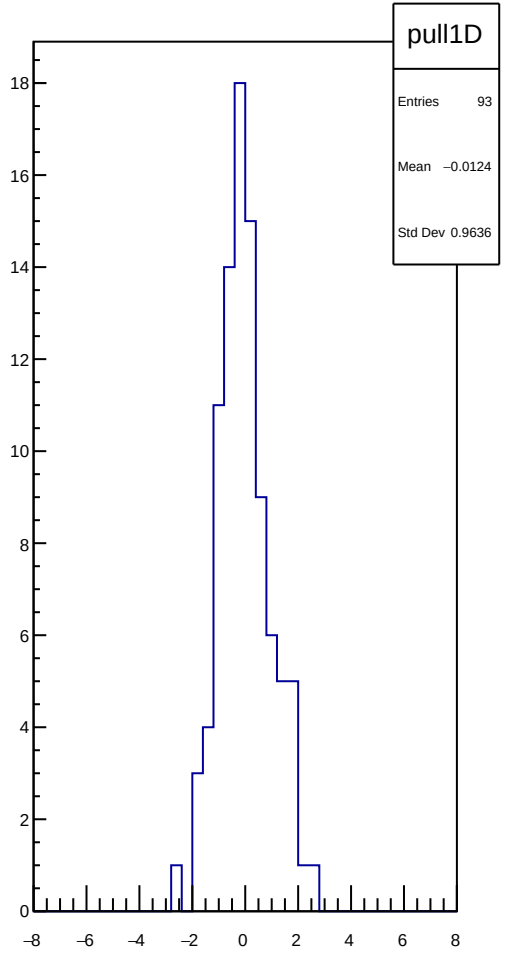

asym_sam8_cor_correction_rms vs run
χ² / ndf 5735 / 92
p0 612.3 ± 0.4507
720
700
680
660
640
620
600
580
560
540
520

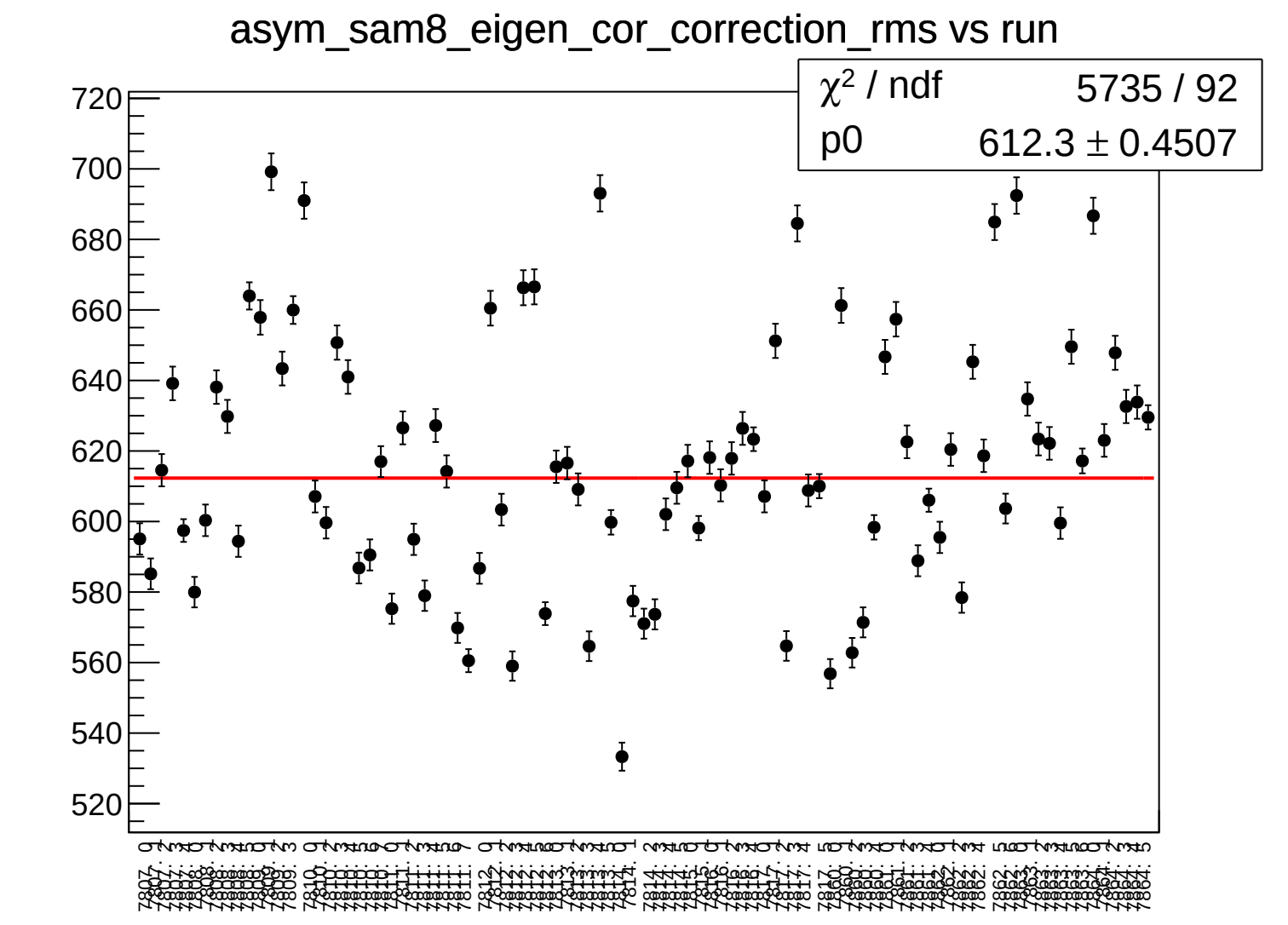

eigen_cor_asym_sam8_mean vs run
χ² / ndf 94.87 / 92
p0 −50.89 ± 77.37
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean 116.4
Std Dev 0
2
1
0
−1
−2

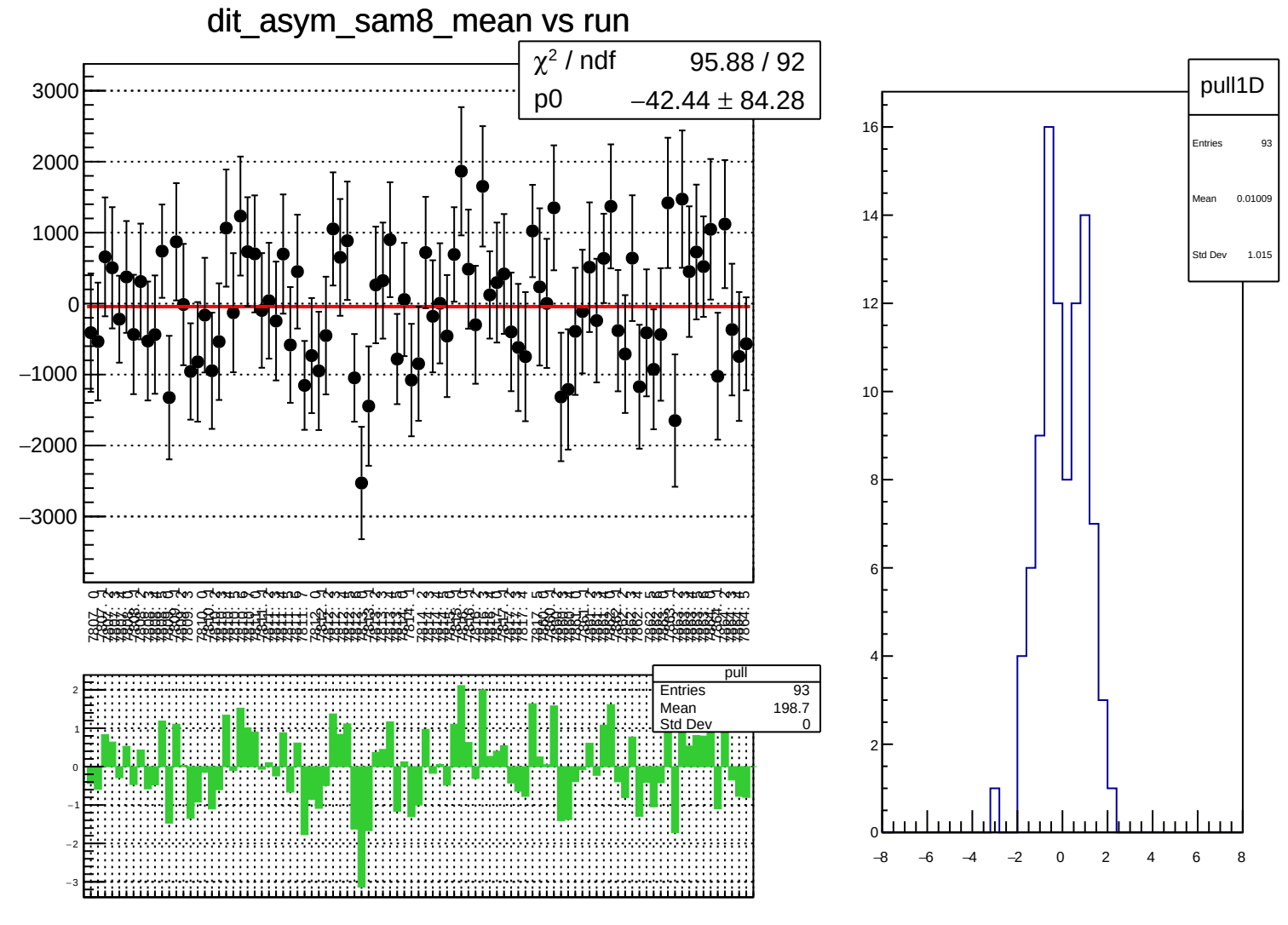

pull1D
Entries 93
Mean 0.009778
Std Dev 1.01
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

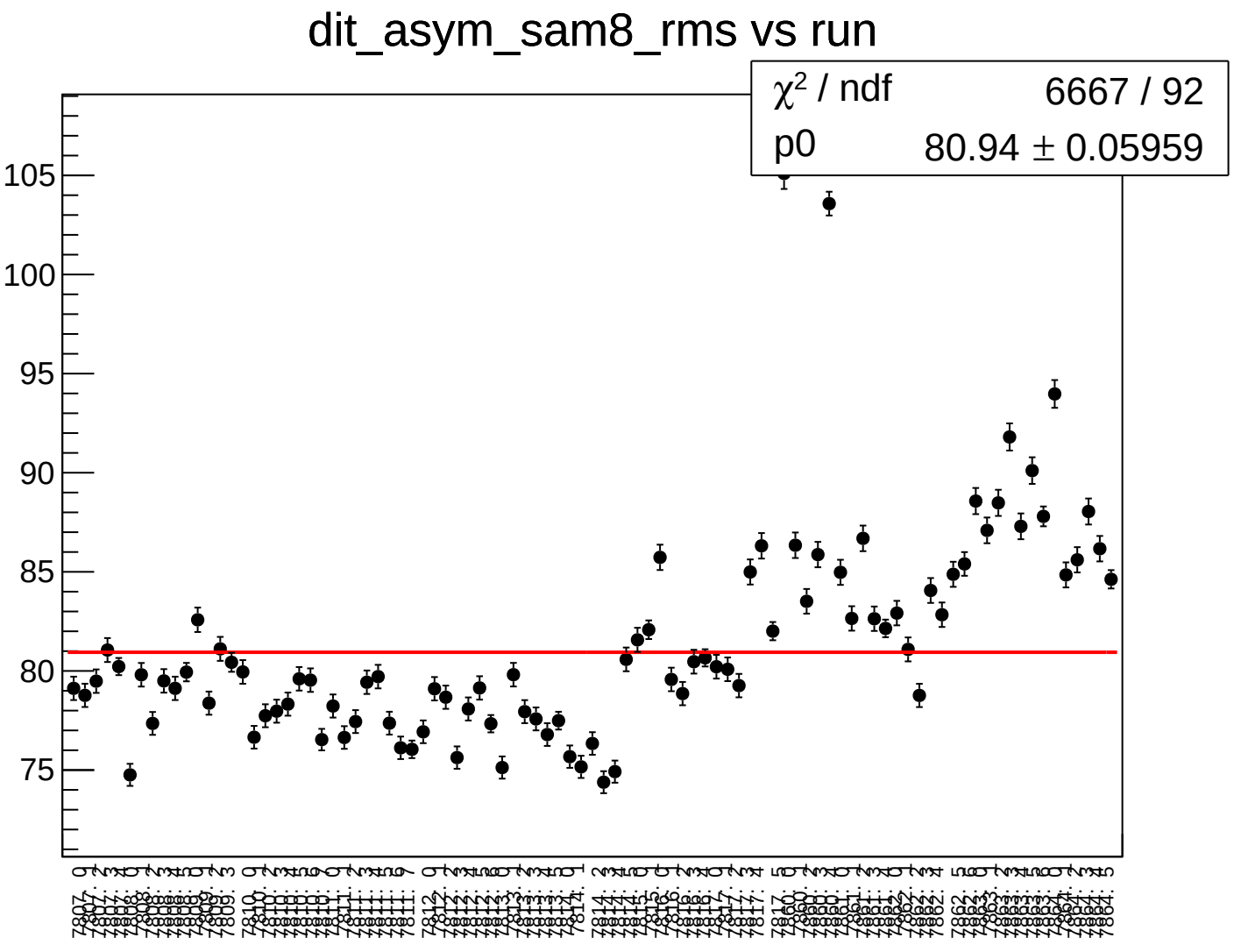

eigen_cor_asym_sam8_rms vs run
χ^2 / ndf 5782 / 92
p0 74.33 ± 0.05471
95
90
85
80
75
70
65

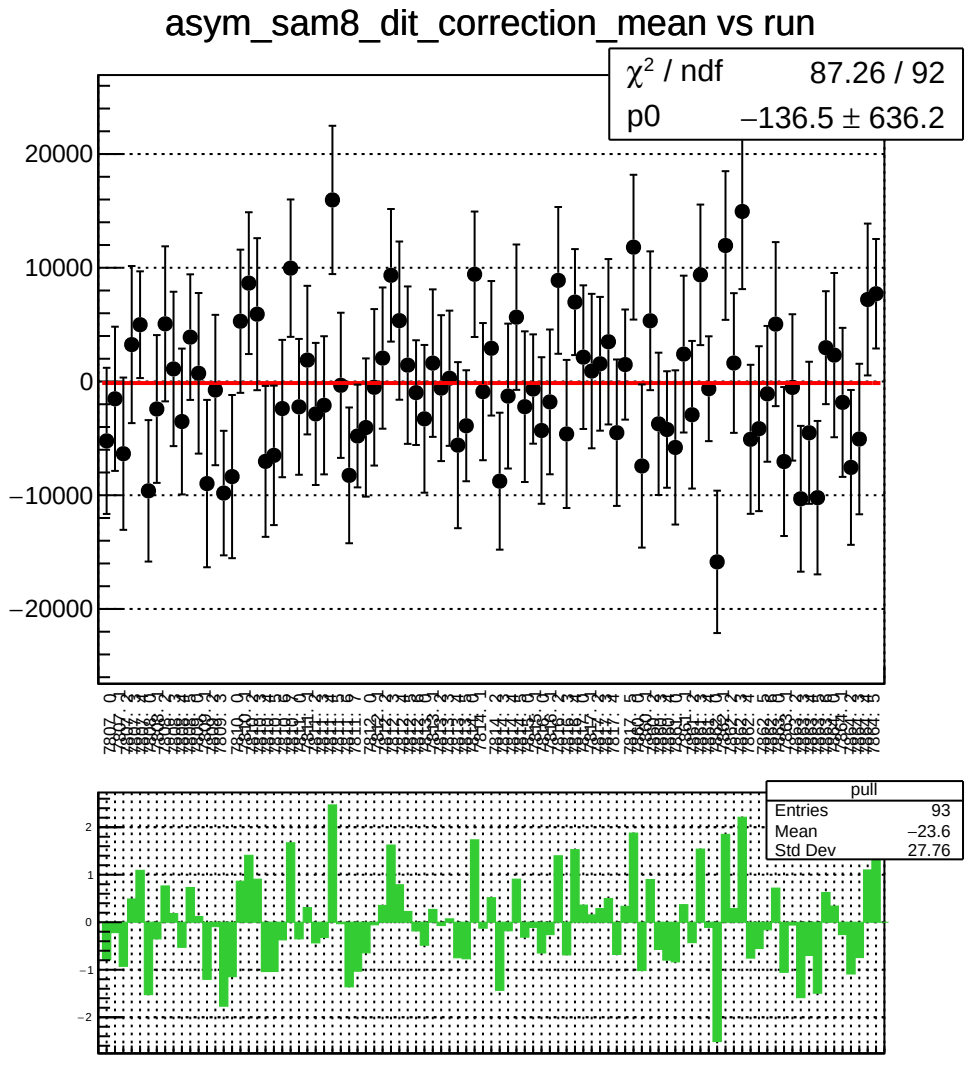

asym_sam8_eigen_cor_correction_mean vs run
χ² / ndf 86.37 / 92
p0 −143 ± 637.4
20000
10000
0
−10000
−20000
pull
Entries 93
Mean −16.49
Std Dev 39.03
2
1
0
−1
−2

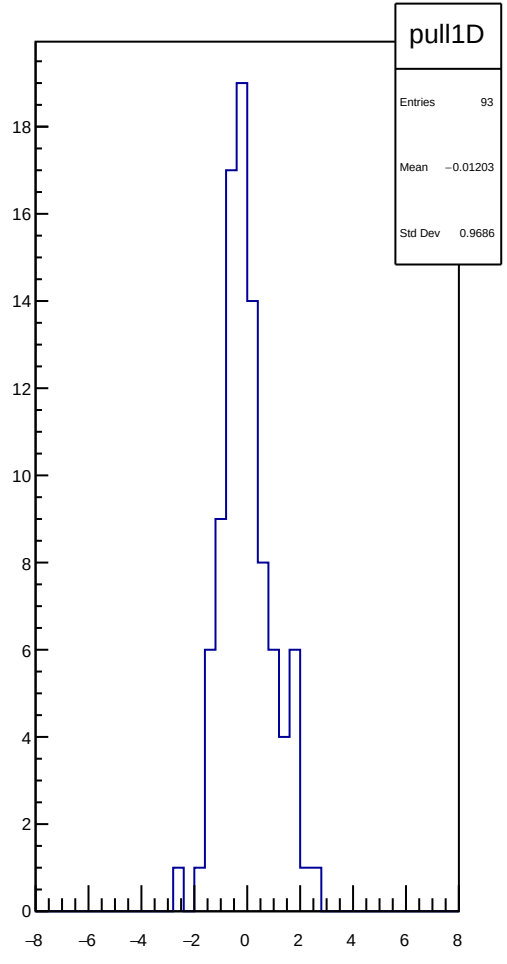

pull1D
Entries 93
Mean −0.0124
Std Dev 0.9636
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

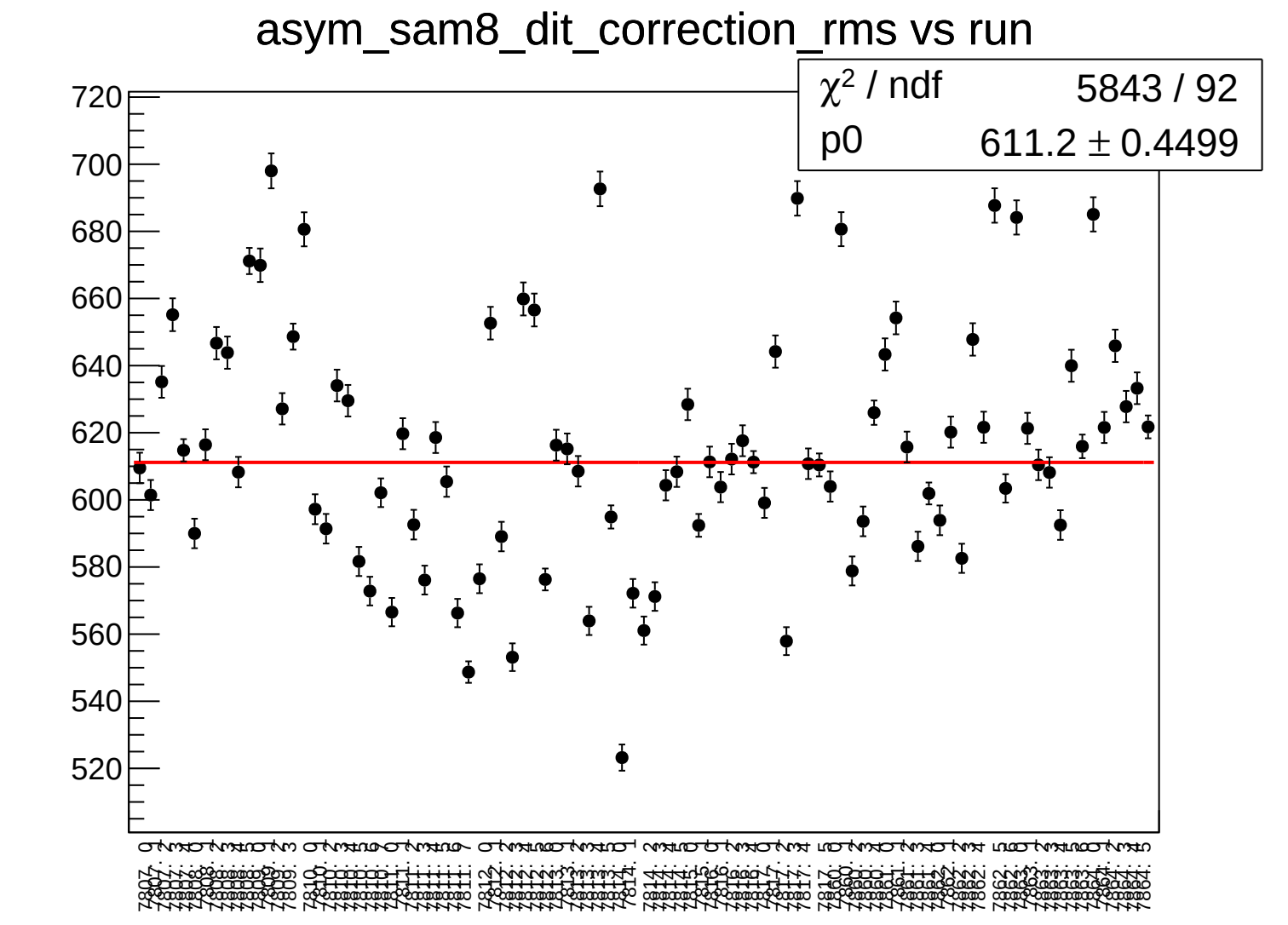

asym_sam8_eigen_cor_correction_rms vs run
χ² / ndf 5735 / 92
p0 612.3 ± 0.4507
720
700
680
660
640
620
600
580
560
540
520

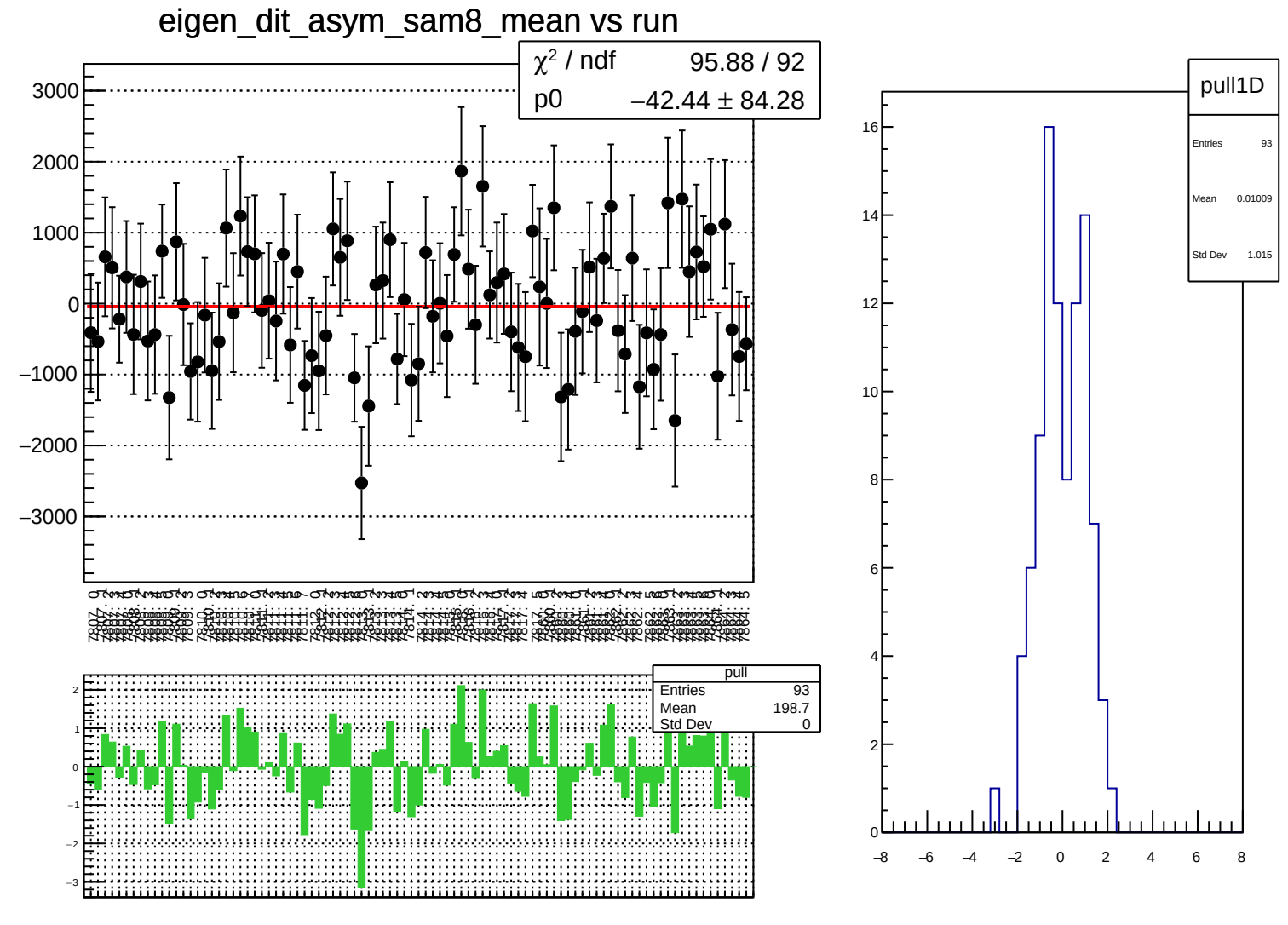

dit_asym_sam8_mean vs run
χ² / ndf 95.88 / 92
p0 −42.44 ± 84.28
pull
Entries 93
Mean 198.7
Std Dev 0
pull1D
Entries 93
Mean 0.01009
Std Dev 1.015

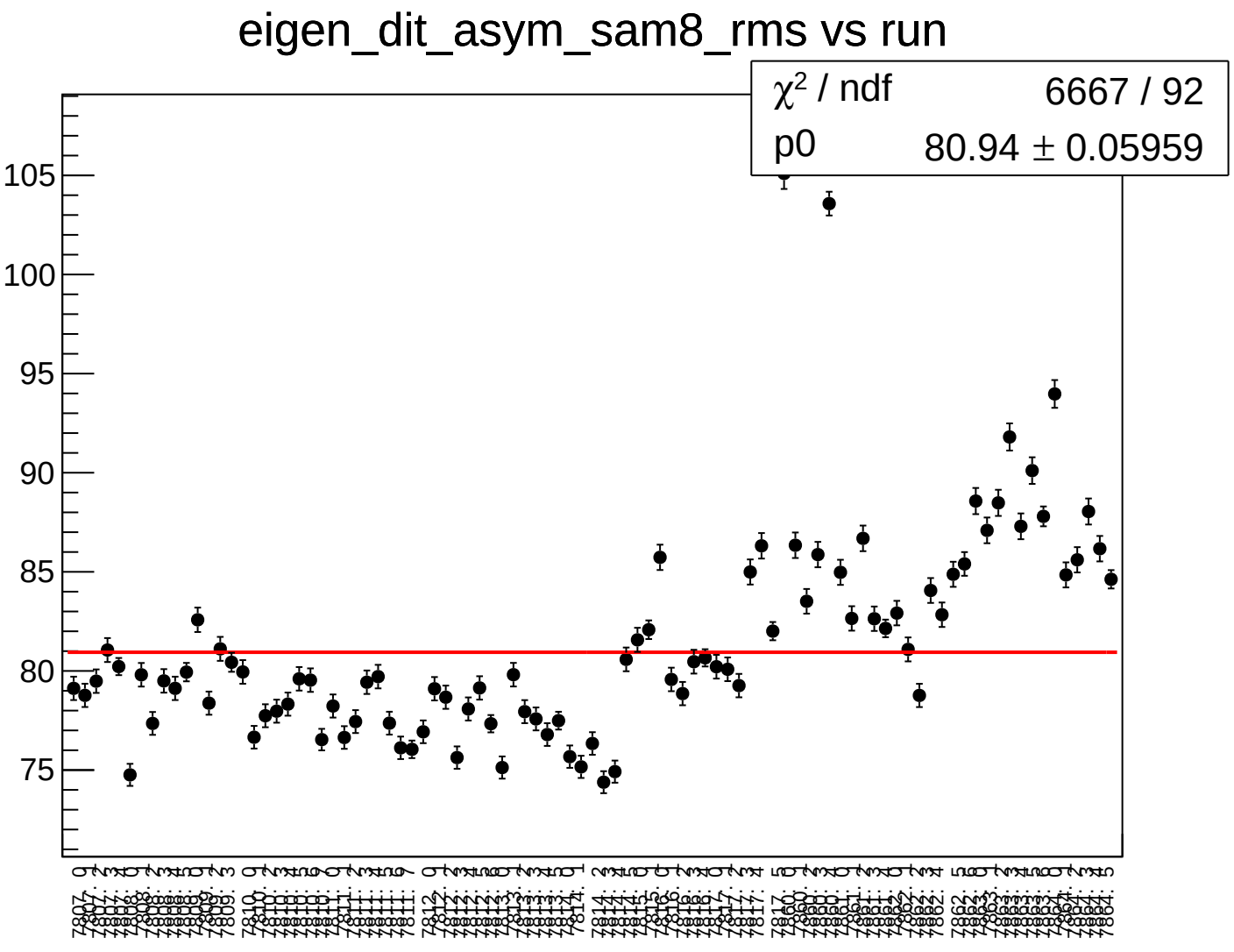

dit_asym_sam8_rms vs run
χ^2 / ndf 6667 / 92
p0 80.94 ± 0.05959
105
100
95
90
85
80
75

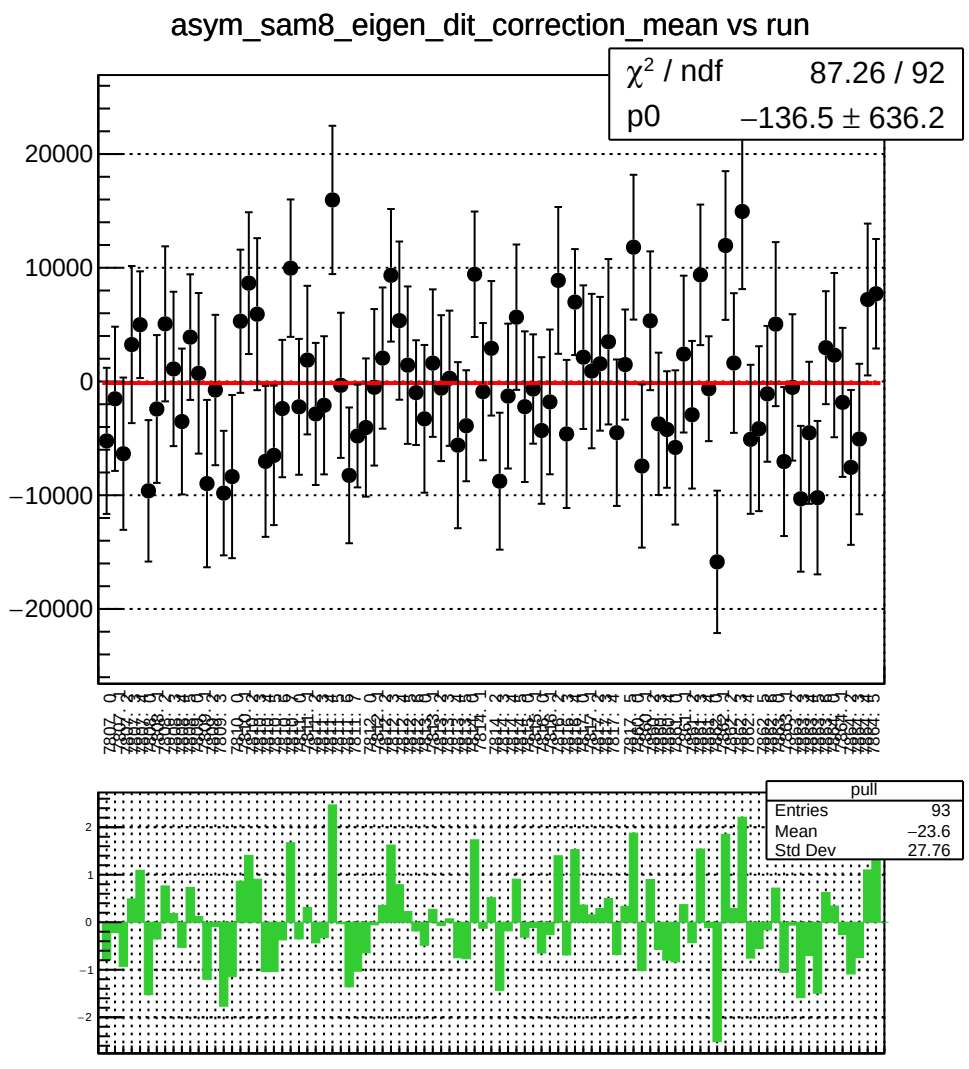

asym_sam8_dit_correction_mean vs run
χ² / ndf 87.26 / 92
p0 −136.5 ± 636.2
20000
10000
0
−10000
−20000
pull
Entries 93
Mean −23.6
Std Dev 27.76
2
1
0
−1
−2

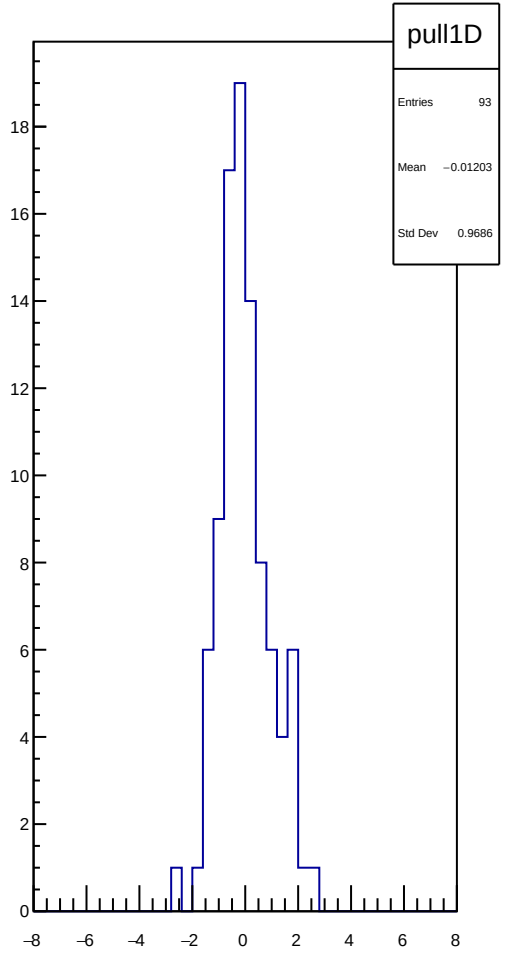

pull1D
Entries 93
Mean −0.01203
Std Dev 0.9686
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

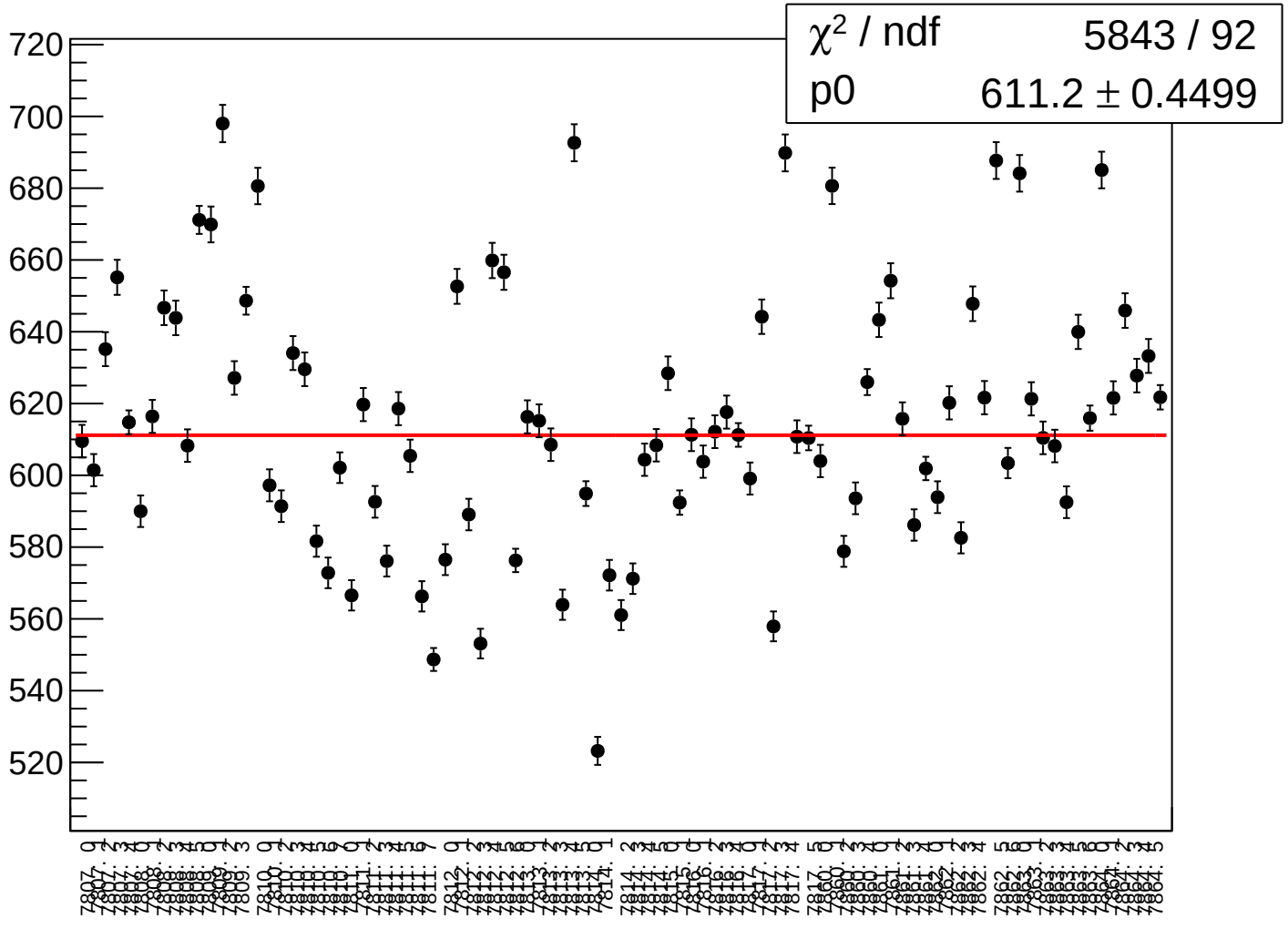

asym_sam8_dit_correction_rms vs run
χ² / ndf 5843 / 92
p0 611.2 ± 0.4499
720
700
680
660
640
620
600
580
560
540
520

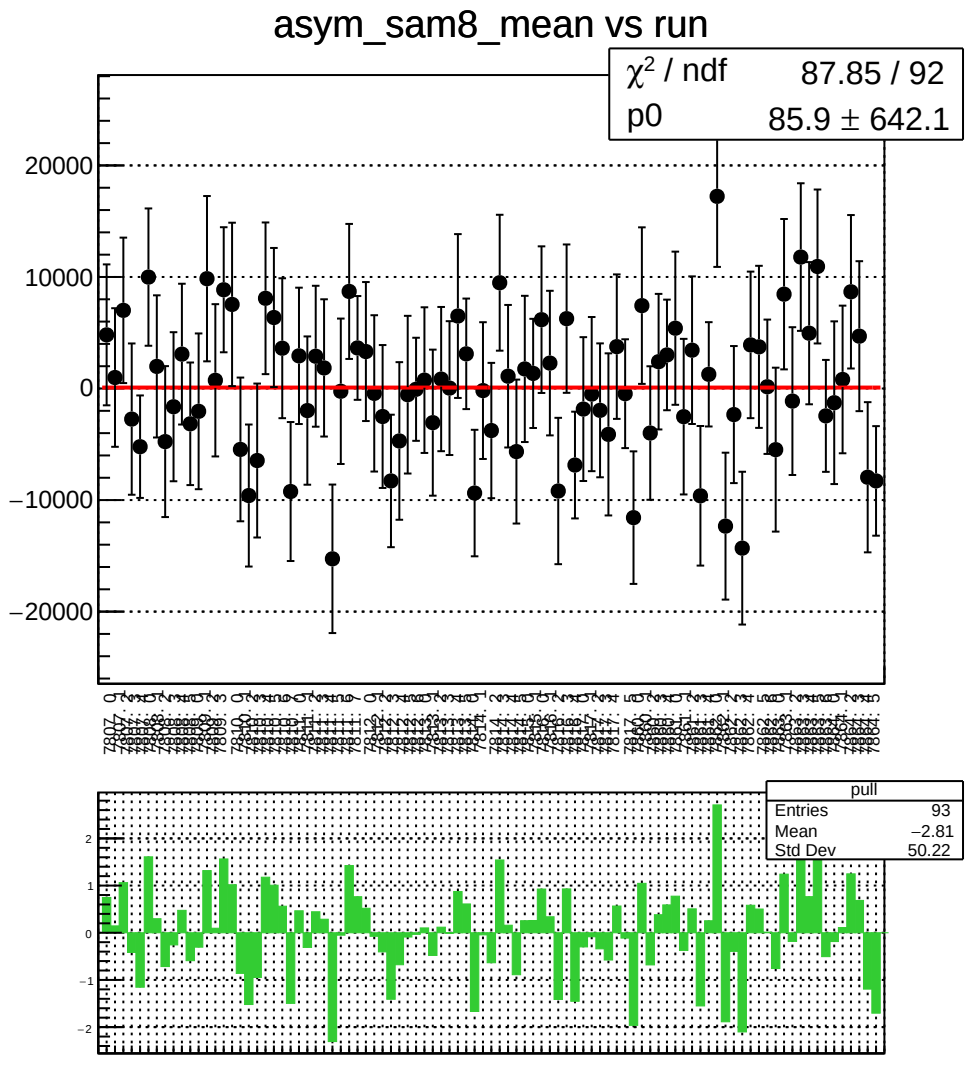

eigen_dit_asym_sam8_mean vs run
χ² / ndf 95.88 / 92
p0 −42.44 ± 84.28
pull
Entries 93
Mean 198.7
Std Dev 0
pull1D
Entries 93
Mean 0.01009
Std Dev 1.015

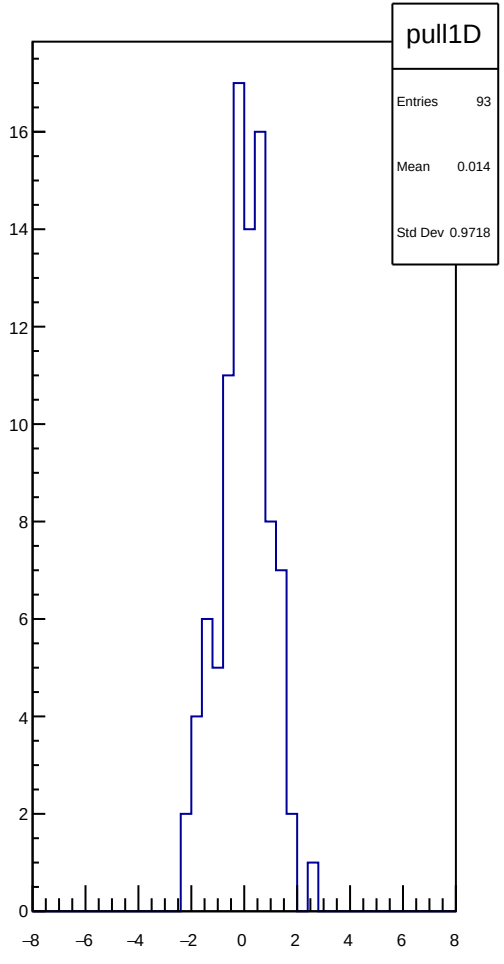

eigen_dit_asym_sam8_rms vs run
χ² / ndf 6667 / 92
p0 80.94 ± 0.05959
105
100
95
90
85
80
75

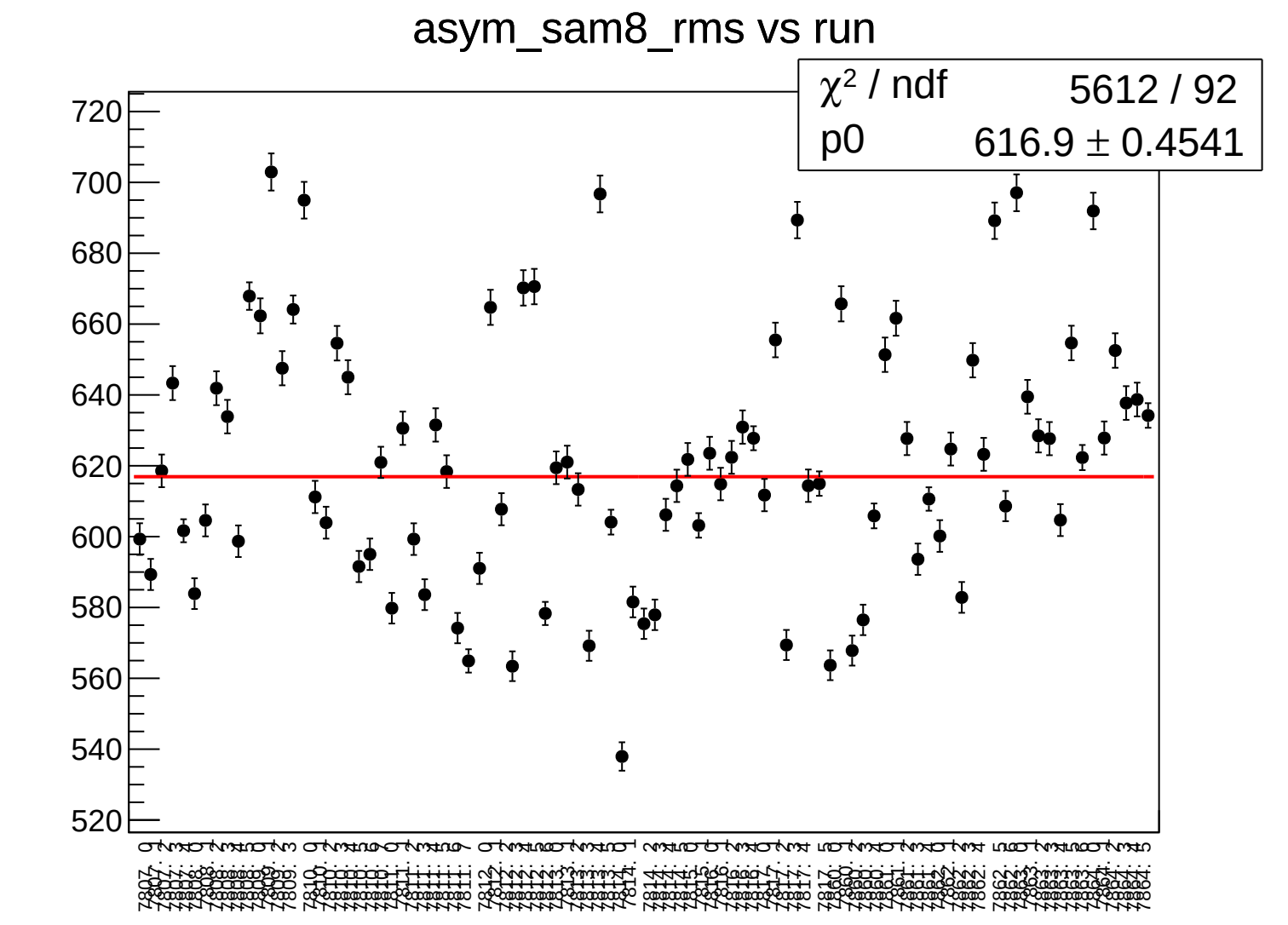

asym_sam8_eigen_dit_correction_mean vs run
χ² / ndf 87.26 / 92
p0 −136.5 ± 636.2
20000
10000
0
−10000
−20000
pull
Entries 93
Mean −23.6
Std Dev 27.76
2
1
0
−1
−2

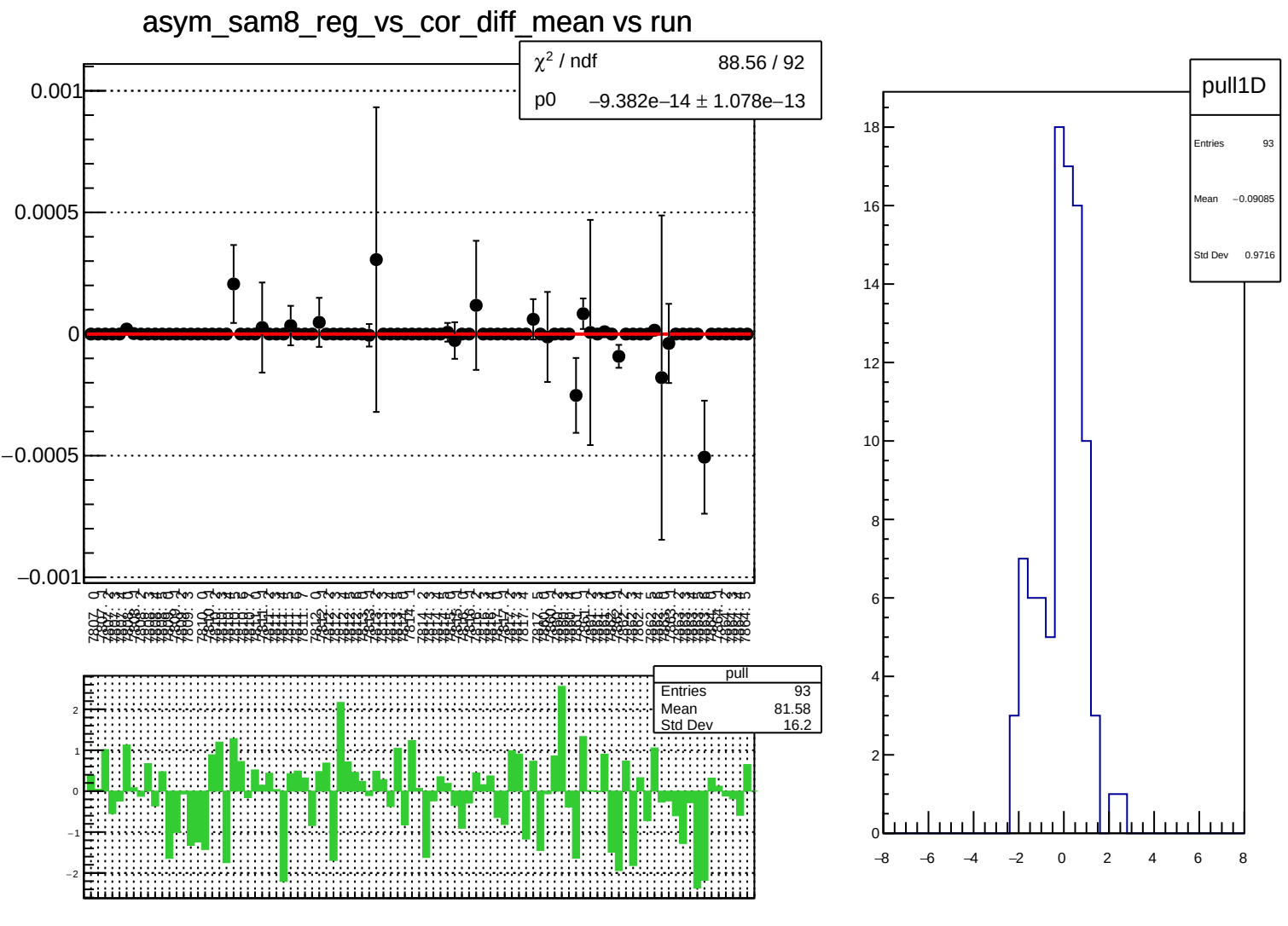

pull1D
Entries 93
Mean −0.01203
Std Dev 0.9686
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

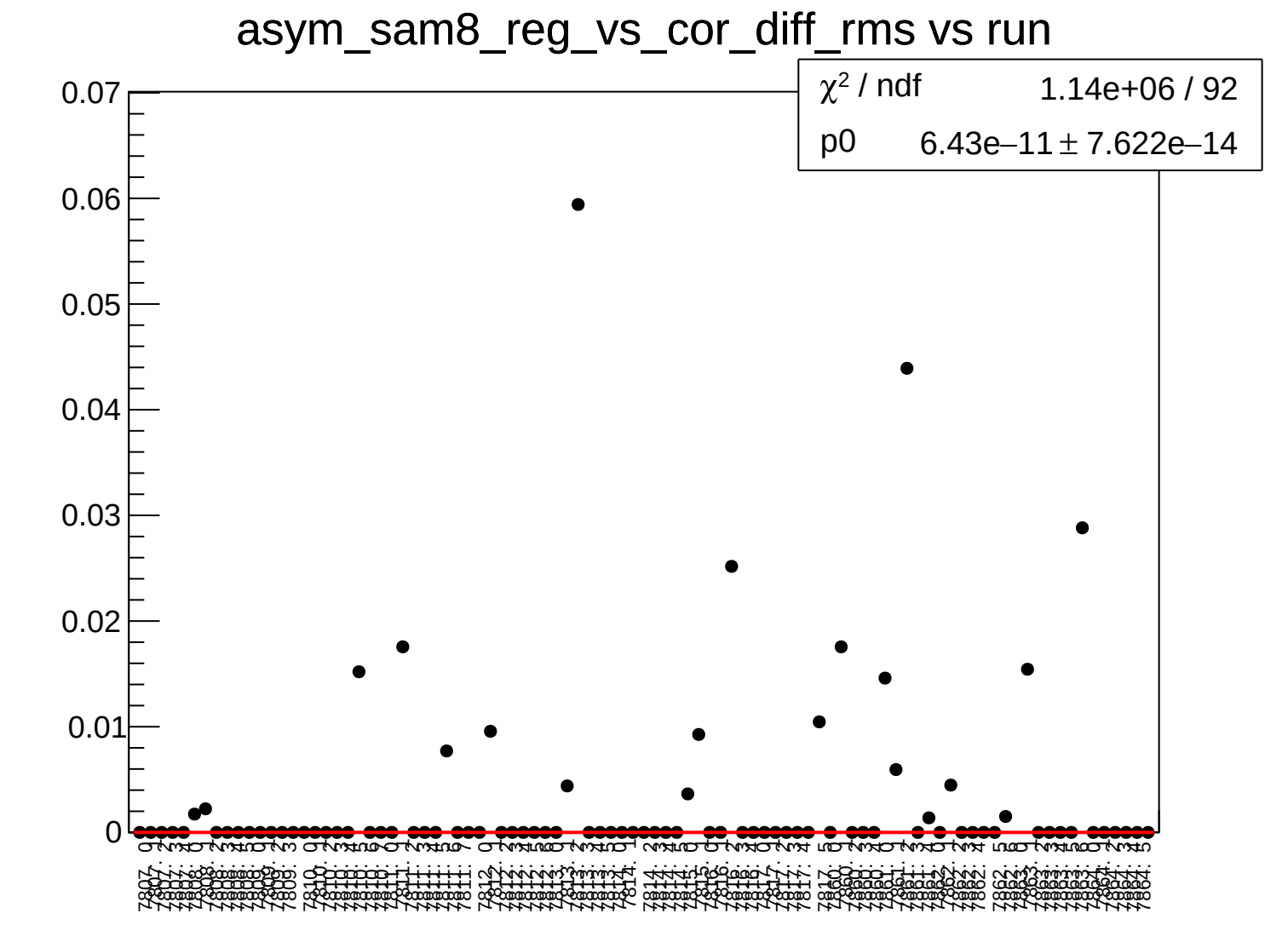

asym_sam8_eigen_dit_correction_rms vs run
χ² / ndf 5843 / 92
p0 611.2 ± 0.4499
720
700
680
660
640
620
600
580
560
540
520

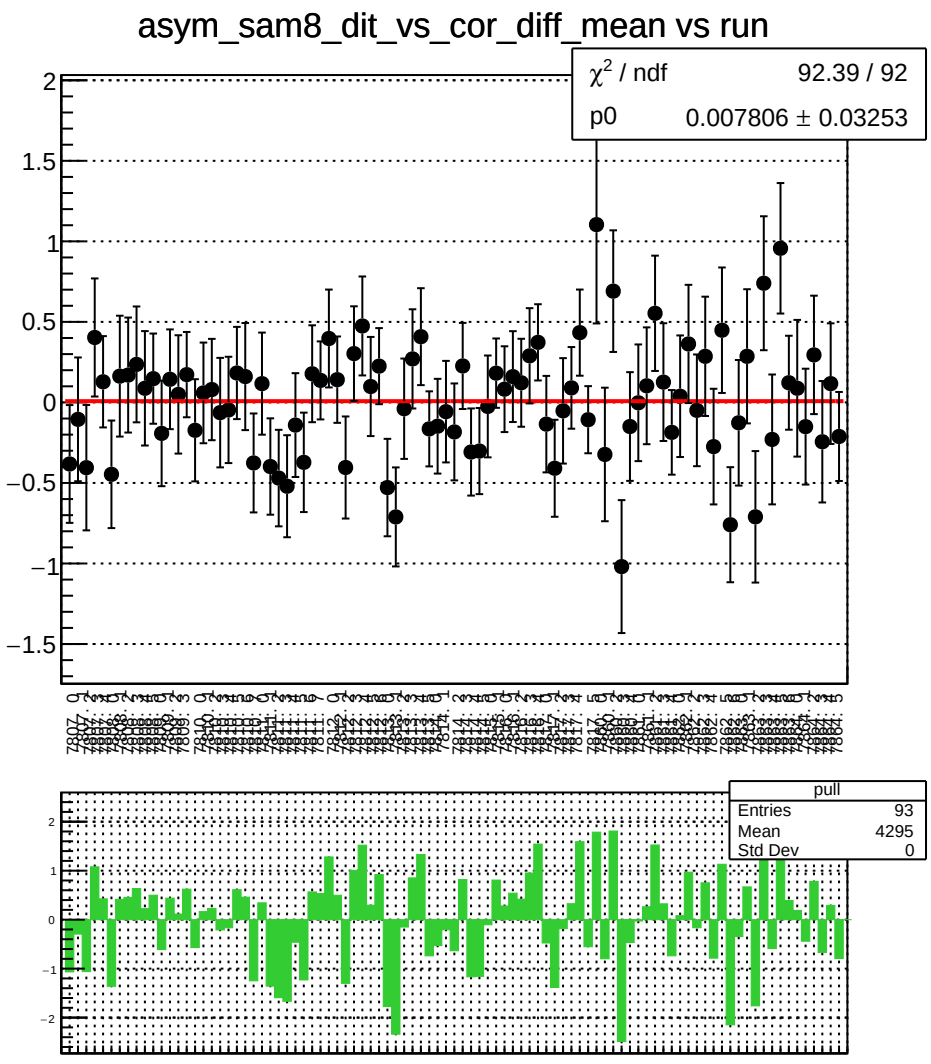

asym_sam8_mean vs run
χ² / ndf 87.85 / 92
p0 85.9 ± 642.1
20000
10000
0
−10000
−20000
pull
Entries 93
Mean −2.81
Std Dev 50.22
2
1
0
−1
−2

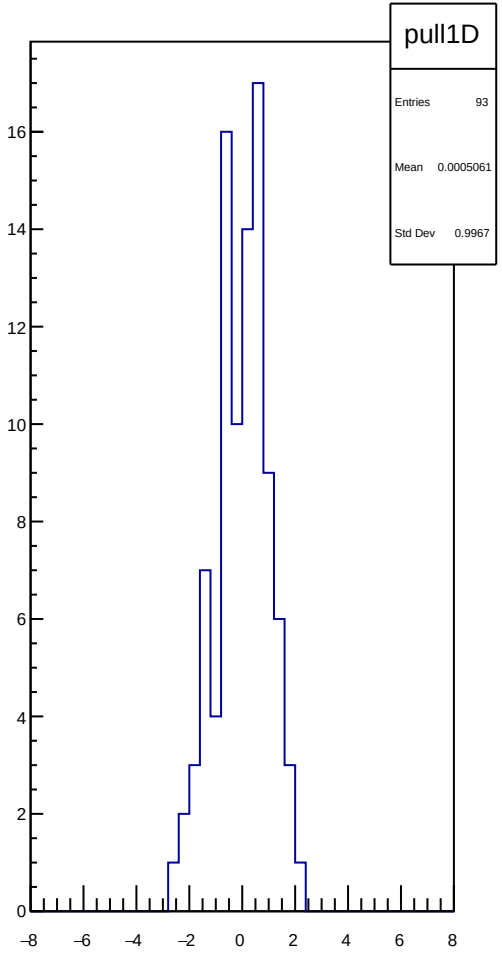

pull1D
Entries 93
Mean 0.014
Std Dev 0.9718
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

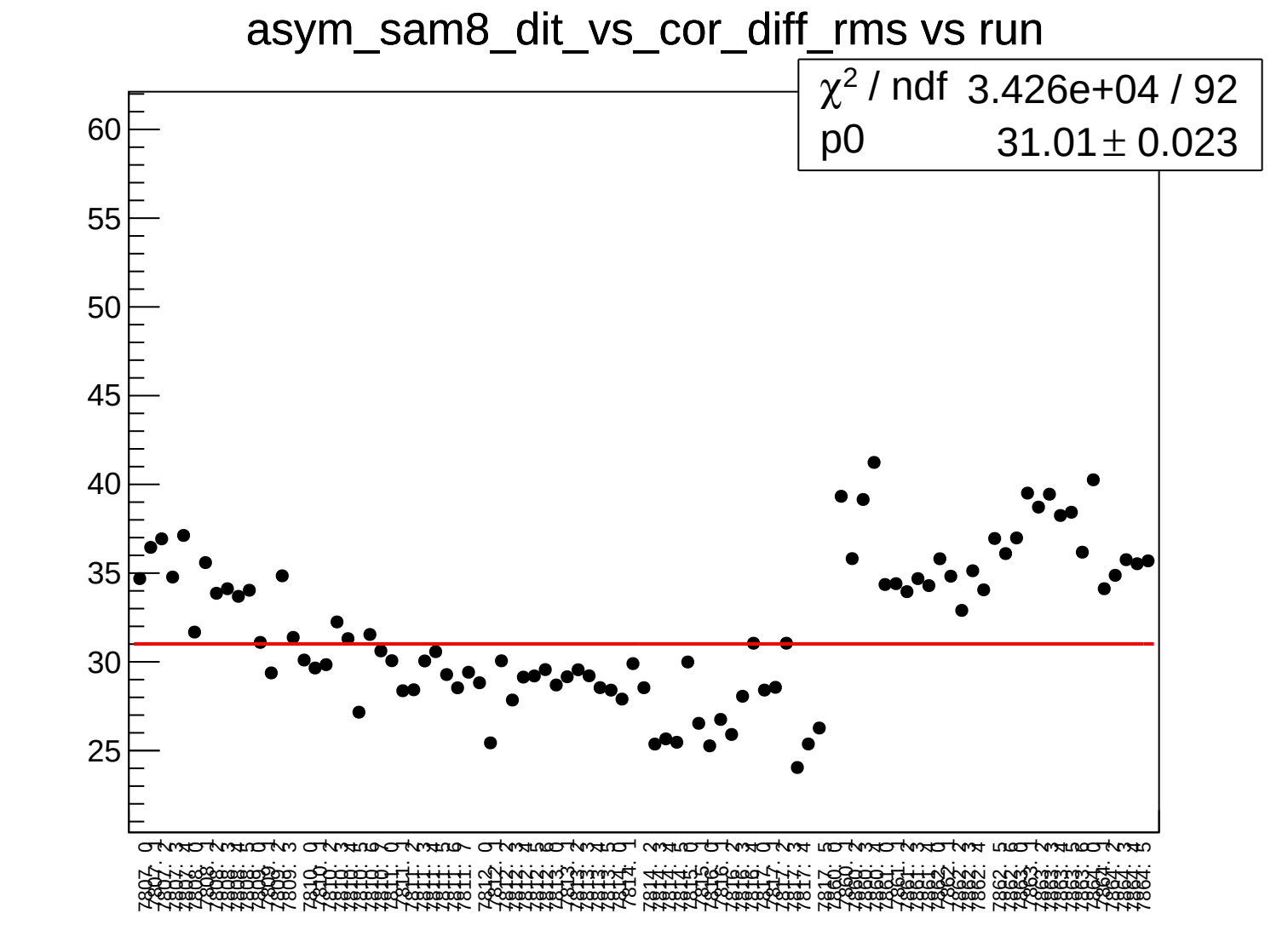

asym_sam8_rms vs run
χ² / ndf 5612 / 92
p0 616.9 ± 0.4541
720
700
680
660
640
620
600
580
560
540
520

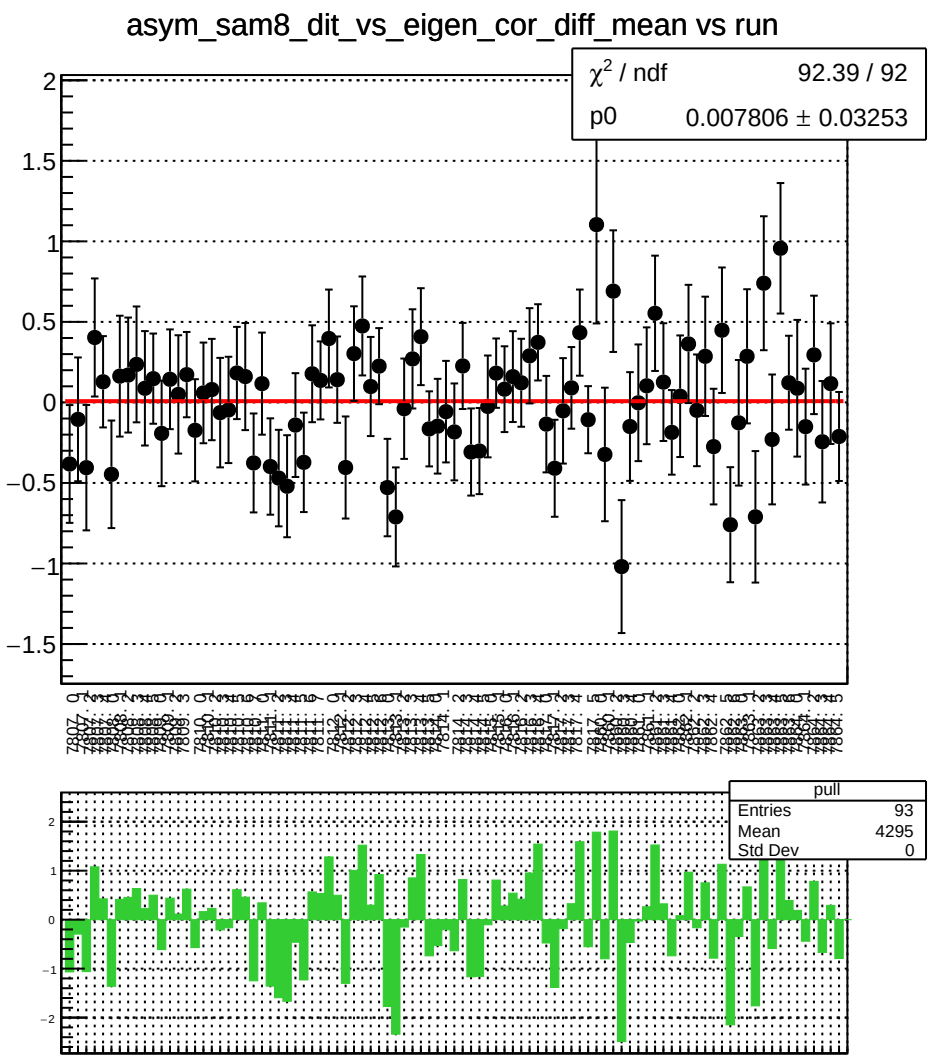

asym_sam8_reg_vs_cor_diff_mean vs run
χ² / ndf 88.56 / 92
p0 −9.382e−14 ± 1.078e−13
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 93
Mean 81.58
Std Dev 16.2
pull1D
Entries 93
Mean −0.09085
Std Dev 0.9716

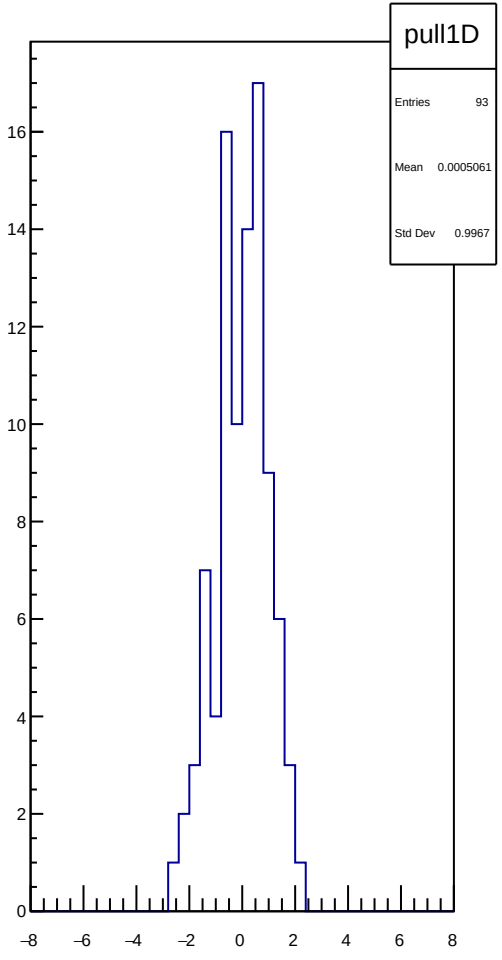

asym_sam8_reg_vs_cor_diff_rms vs run
χ² / ndf 1.14e+06 / 92
p0 6.43e−11 ± 7.622e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

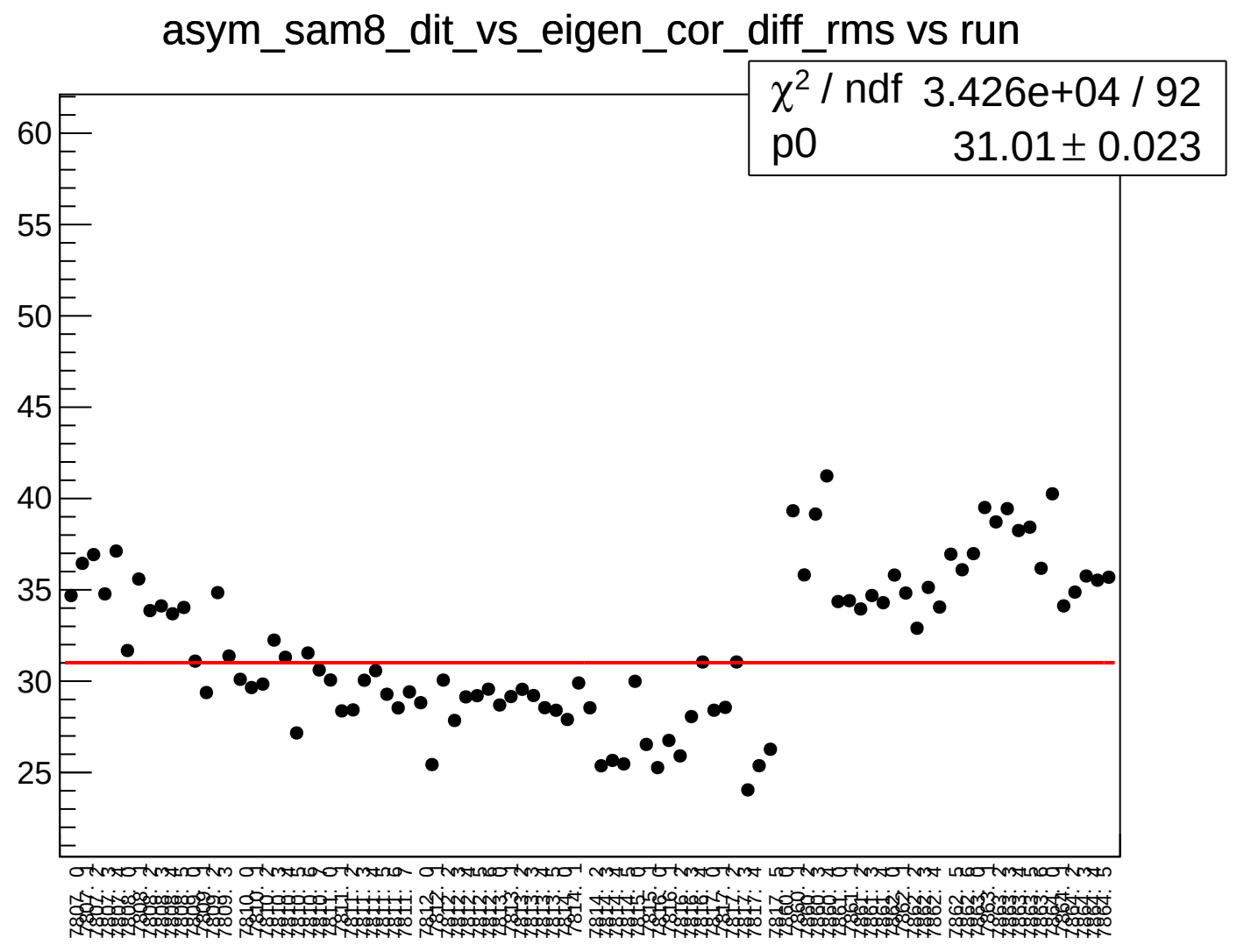

asym_sam8_dit_vs_cor_diff_mean vs run
χ² / ndf 92.39 / 92
p0 0.007806 ± 0.03253
pull
Entries 93
Mean 4295
Std Dev 0

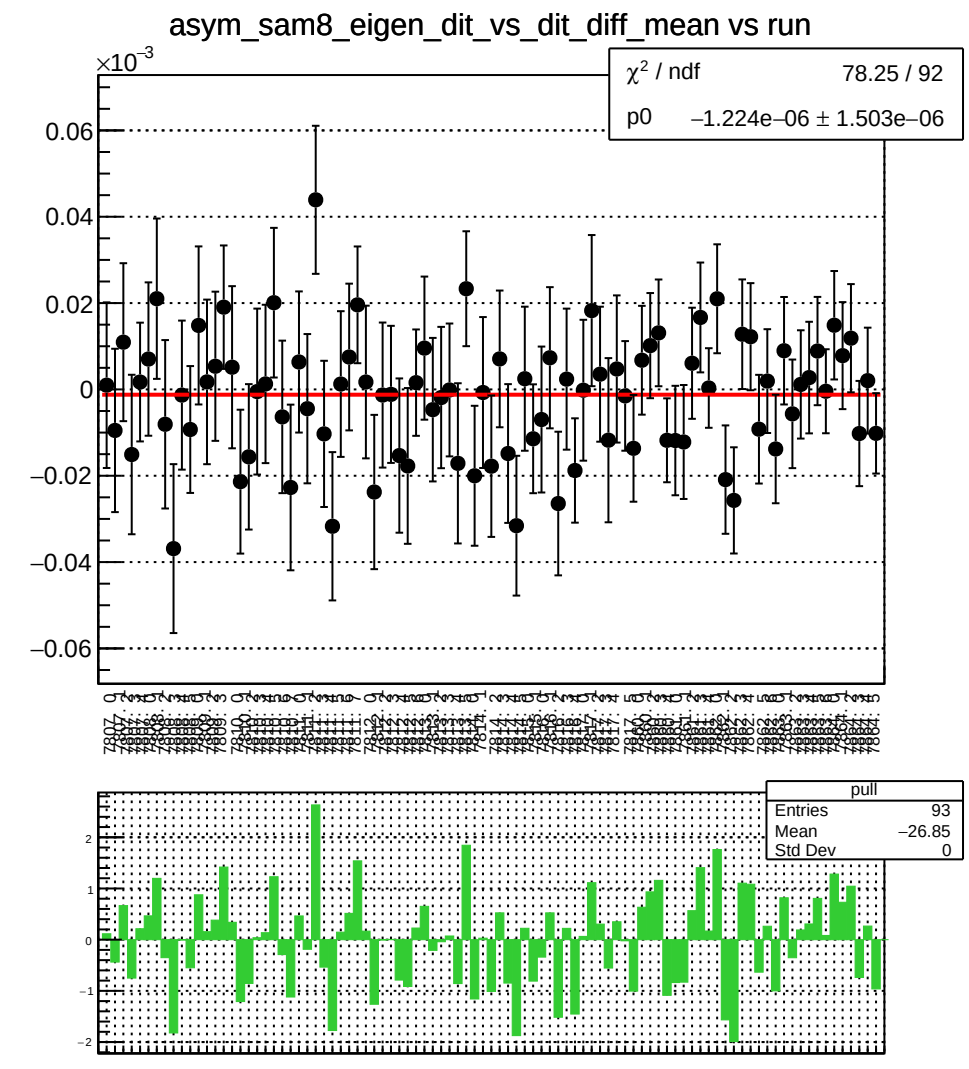

pull1D
Entries 93
Mean 0.0005061
Std Dev 0.9967

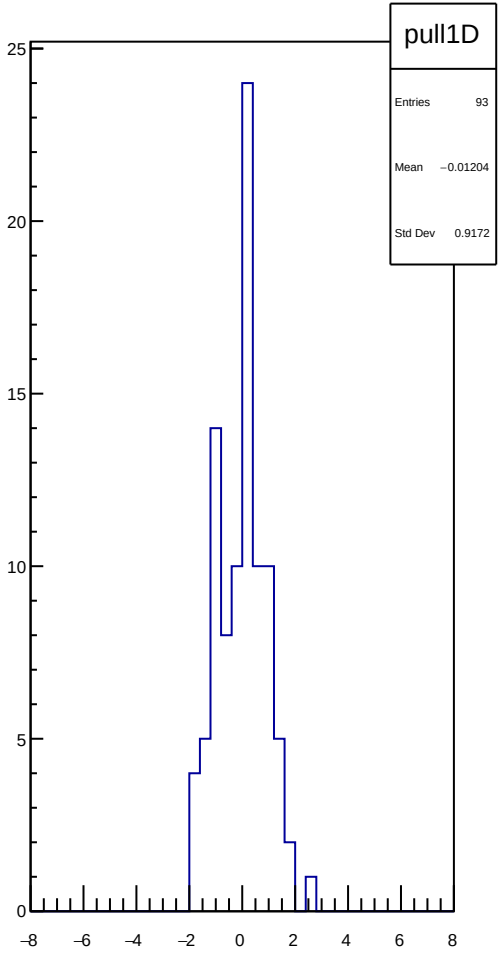

asym_sam8_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.426e+04 / 92
p0 31.01 ± 0.023
60
55
50
45
40
35
30
25

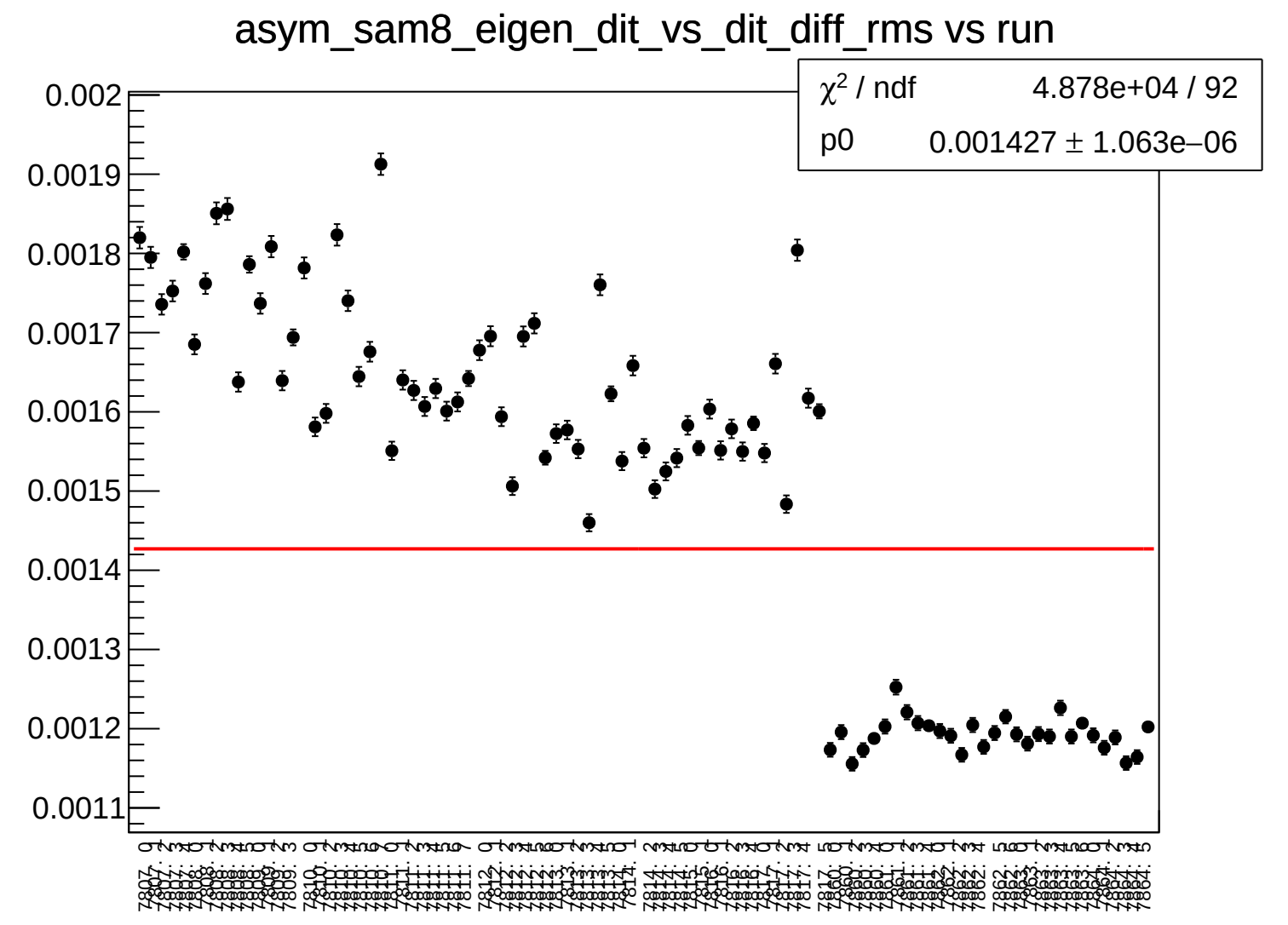

asym_sam8_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.39 / 92
p0 0.007806 ± 0.03253
pull
Entries 93
Mean 4295
Std Dev 0

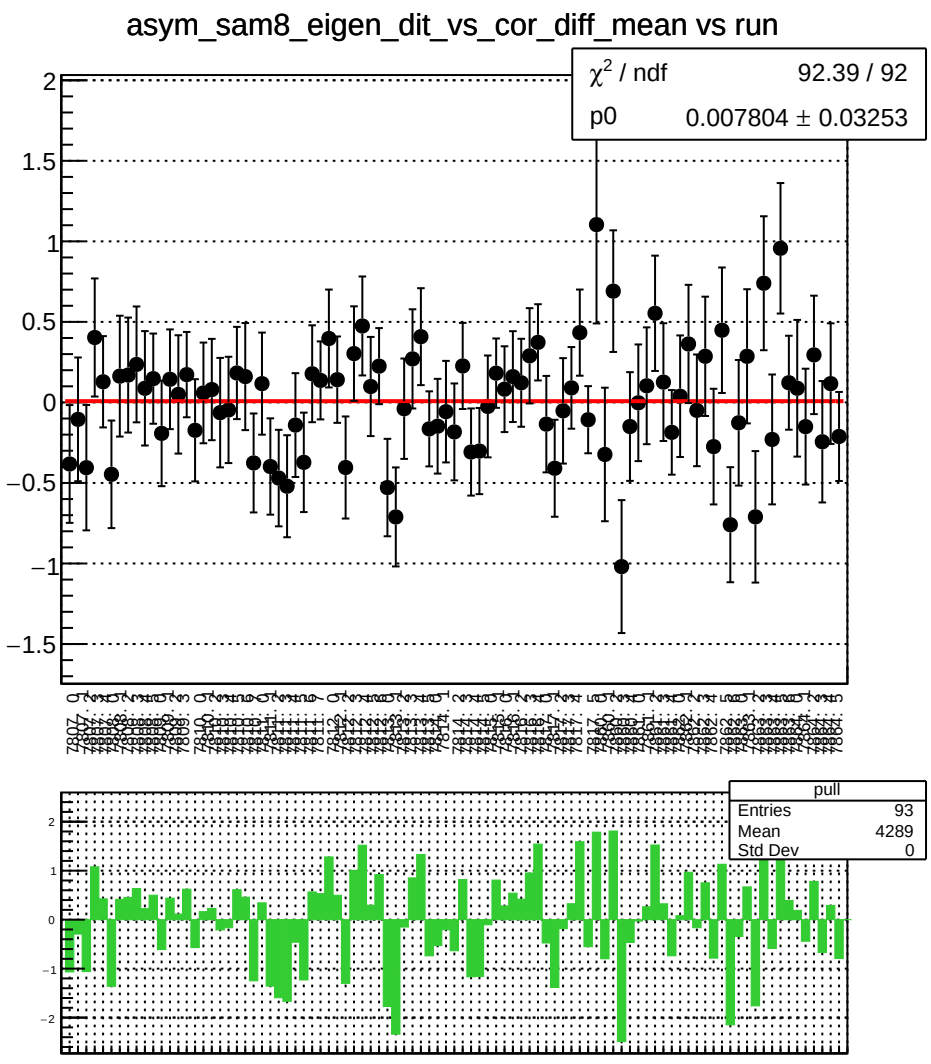

pull1D
Entries 93
Mean 0.0005061
Std Dev 0.9967

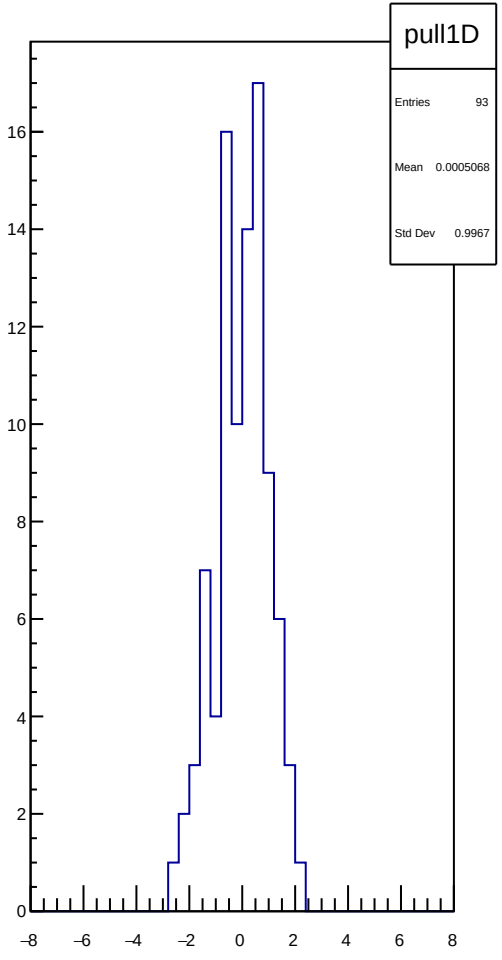

asym_sam8_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.426e+04 / 92
p0 31.01 ± 0.023
60
55
50
45
40
35
30
25

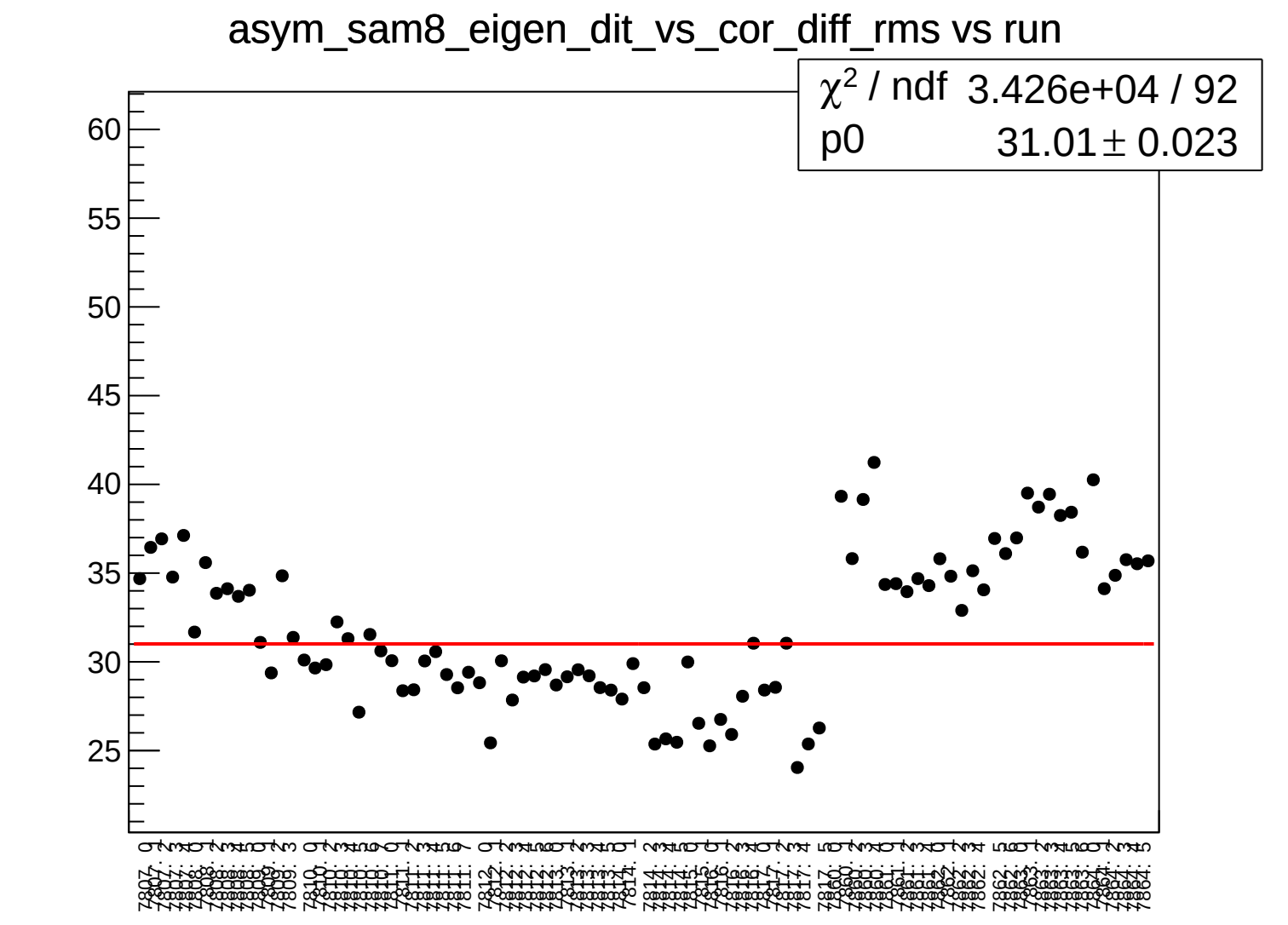

asym_sam8_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 78.25 / 92
p0 −1.224e−06 ± 1.503e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 93
Mean −26.85
Std Dev 0
2
1
0
−1
−2

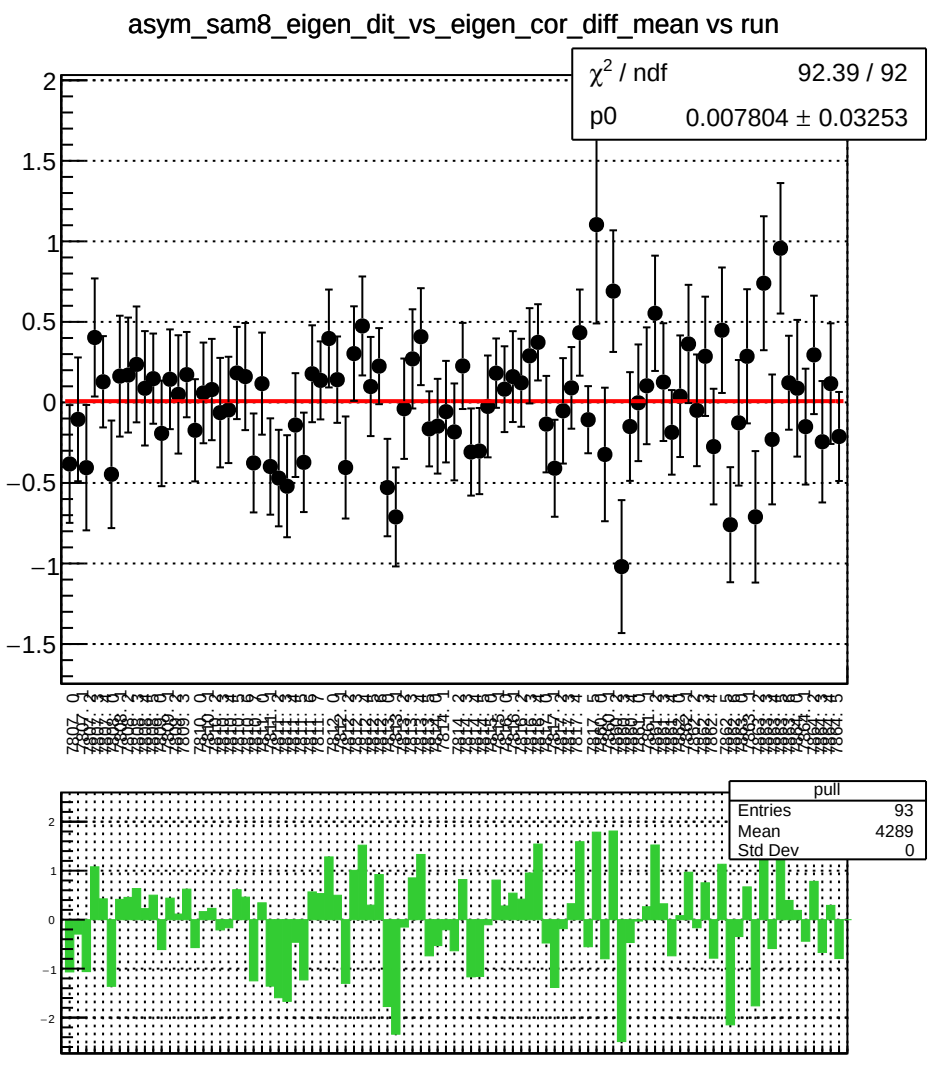

pull1D
Entries 93
Mean −0.01204
Std Dev 0.9172
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

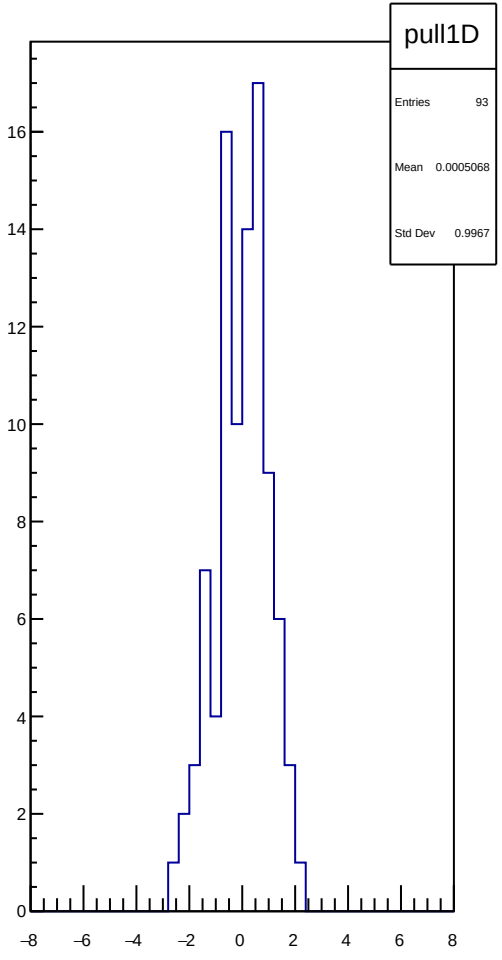

asym_sam8_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.878e+04 / 92
p0 0.001427 ± 1.063e−06
0.002
0.0019
0.0018
0.0017
0.0016
0.0015
0.0014
0.0013
0.0012
0.0011

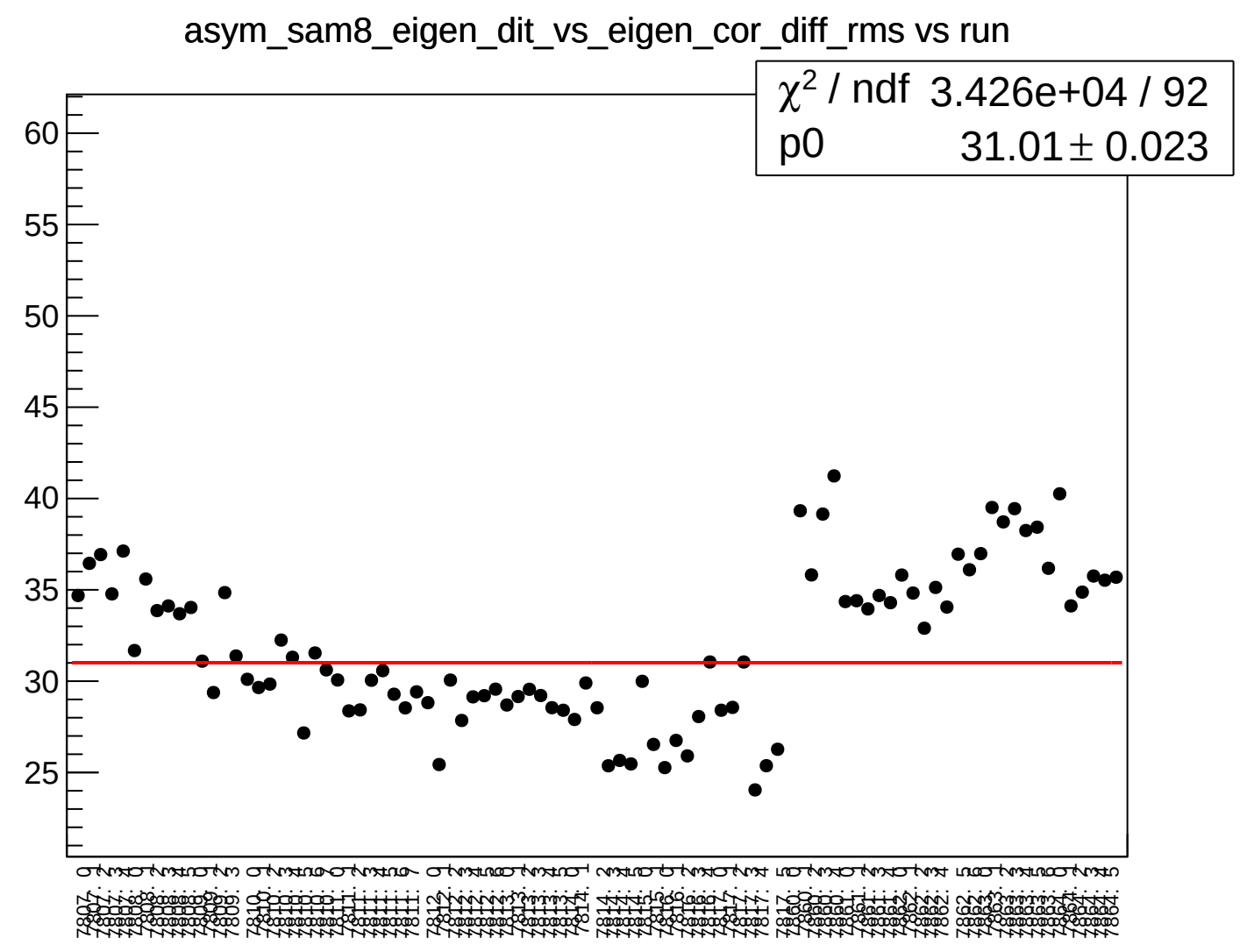

asym_sam8_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.39 / 92
p0 0.007804 ± 0.03253
pull
Entries 93
Mean 4289
Std Dev 0

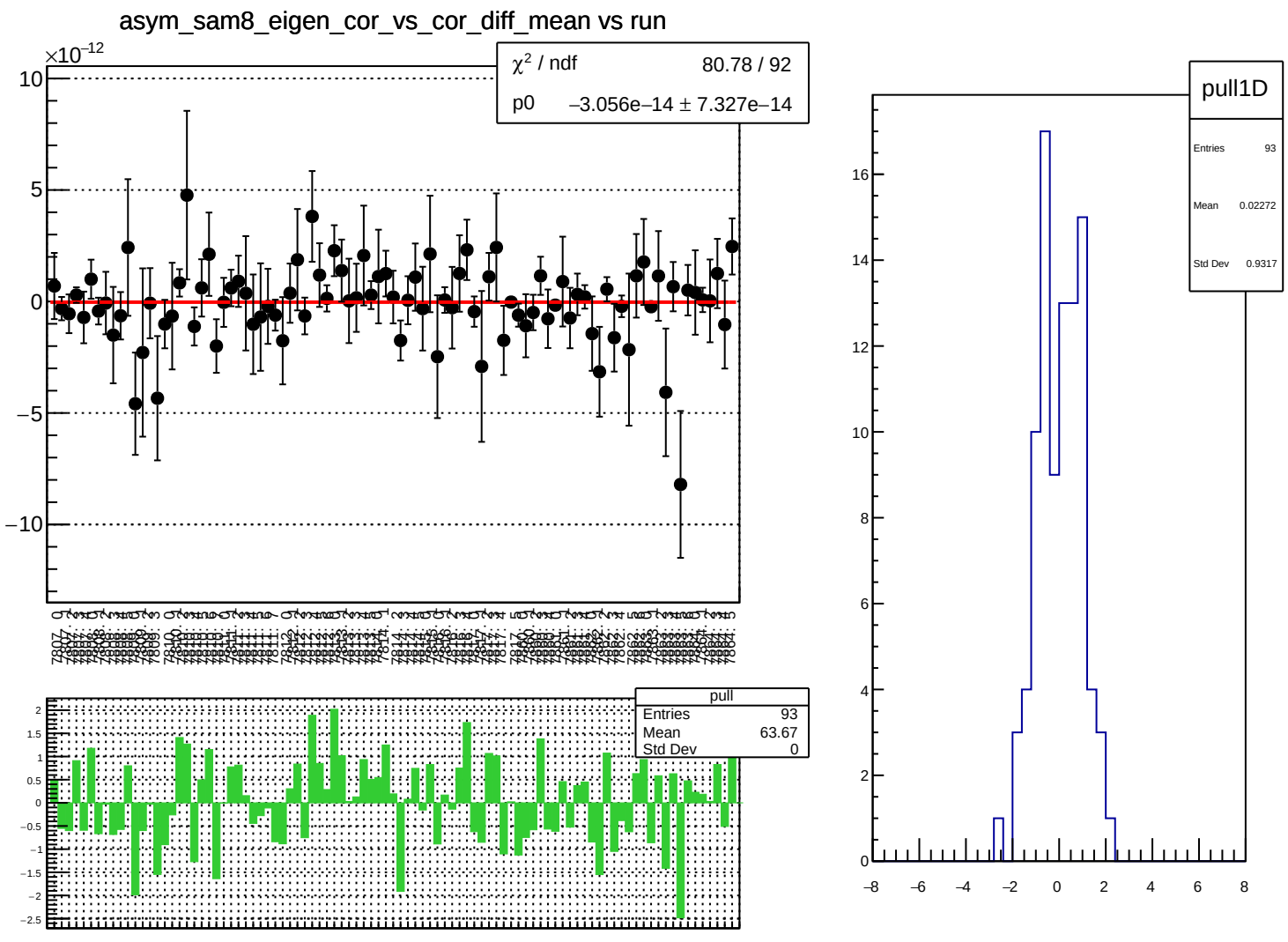

pull1D
Entries 93
Mean 0.0005068
Std Dev 0.9967

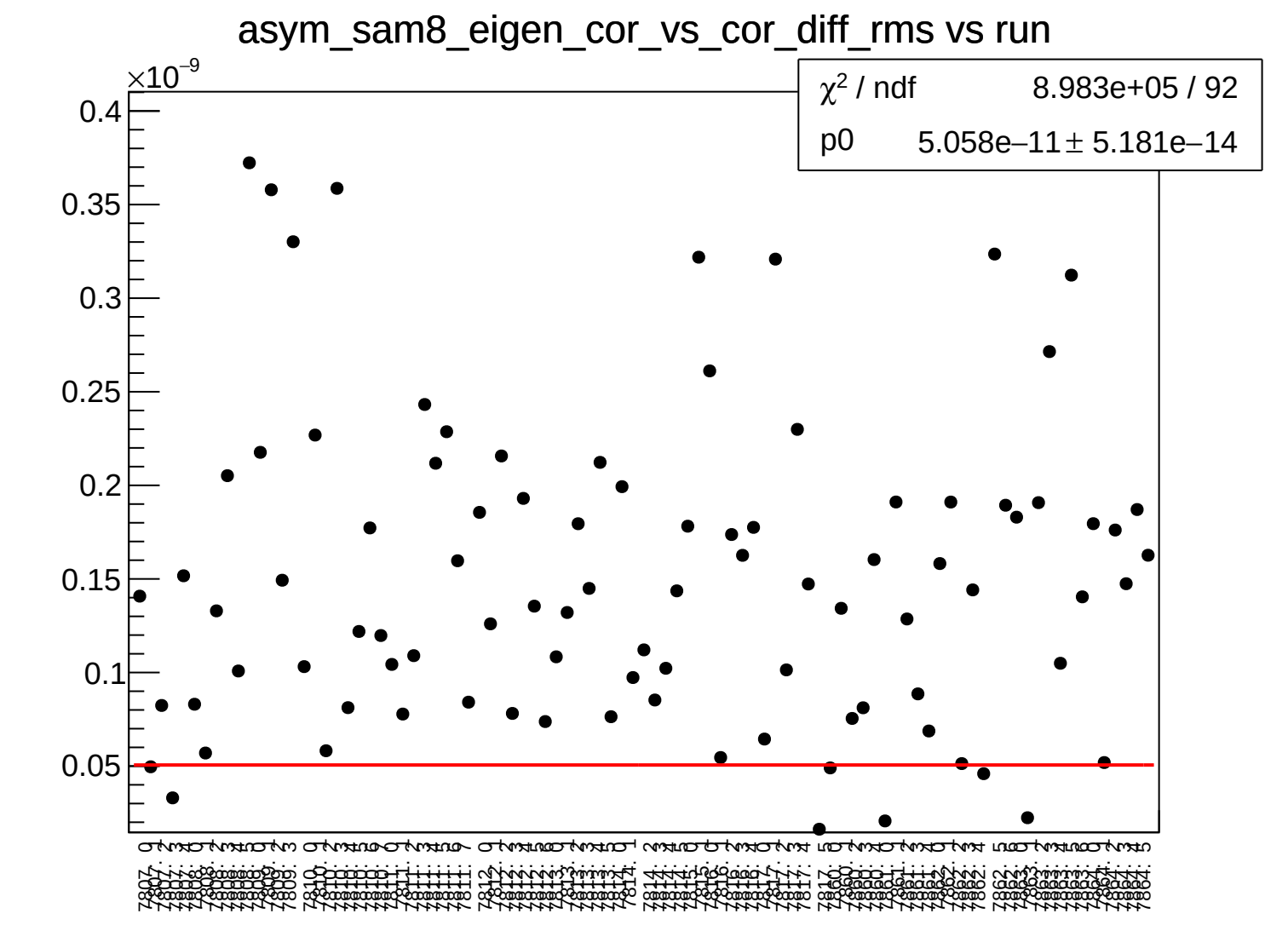

asym_sam8_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.426e+04 / 92
p0 31.01 ± 0.023
60
55
50
45
40
35
30
25

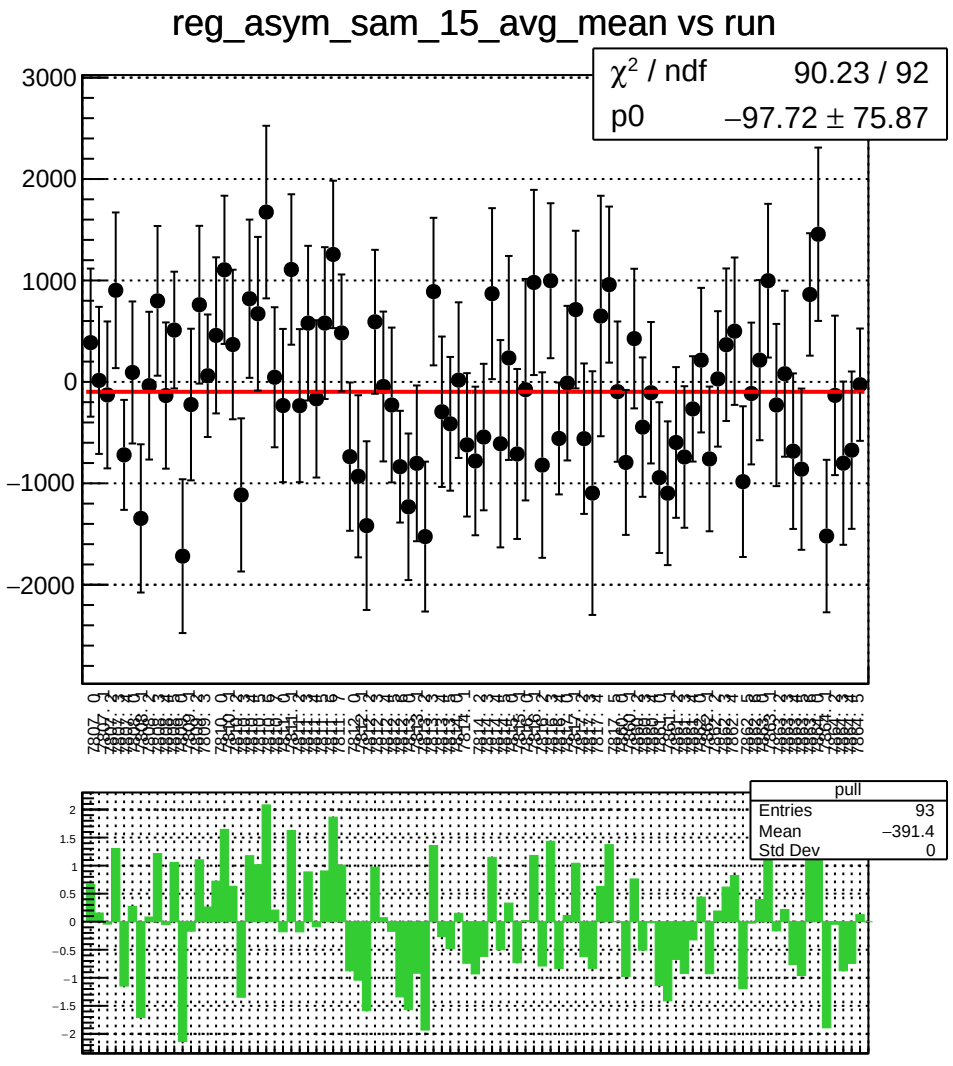

asym_sam8_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.39 / 92
p0 0.007804 ± 0.03253
pull
Entries 93
Mean 4289
Std Dev 0

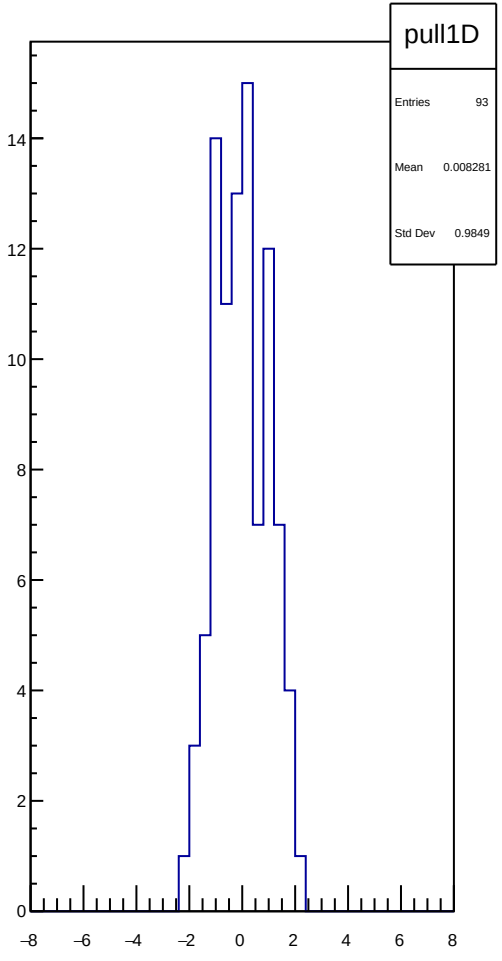

pull1D
Entries 93
Mean 0.0005068
Std Dev 0.9967

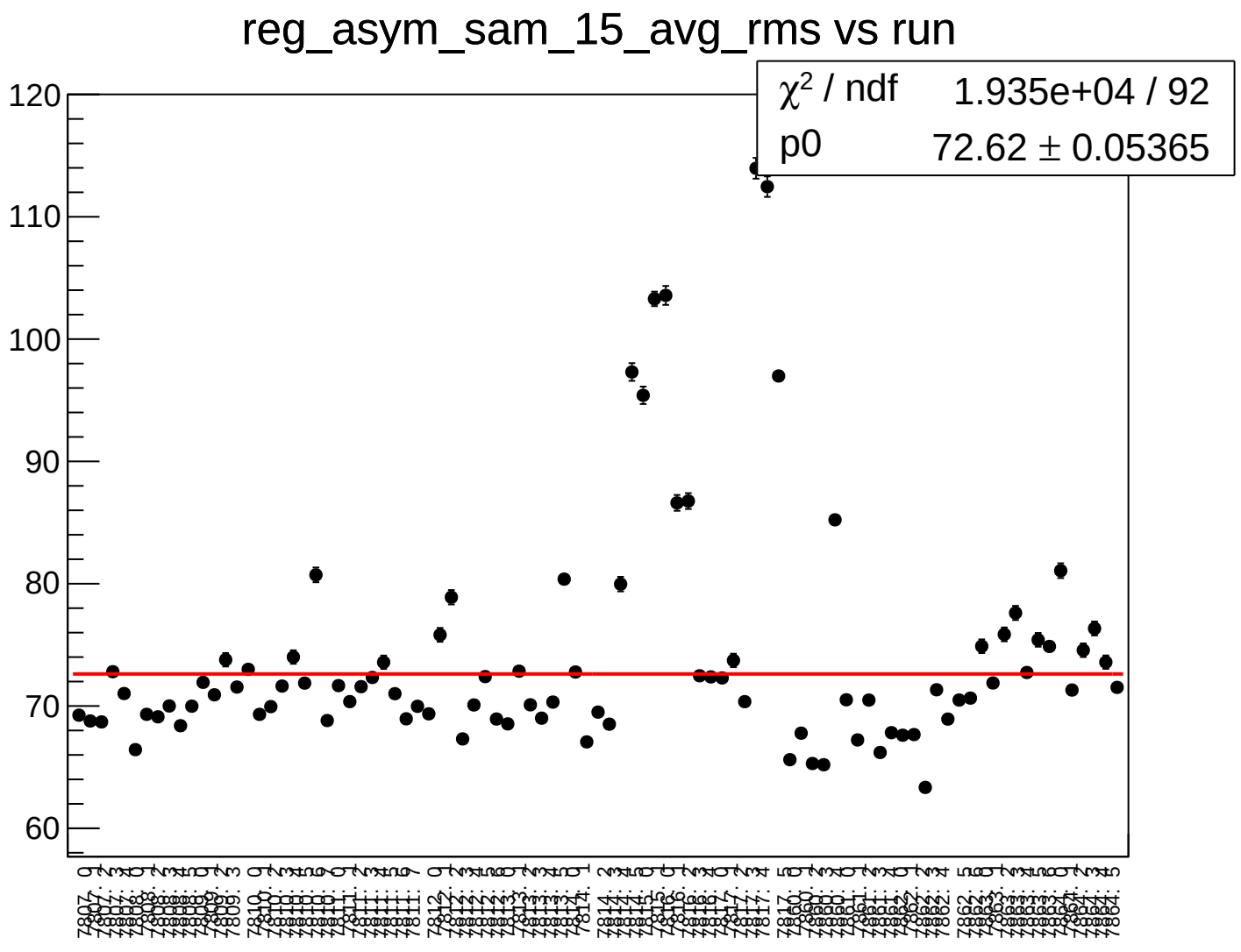

asym_sam8_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.426e+04 / 92
p0 31.01 ± 0.023
60
55
50
45
40
35
30
25

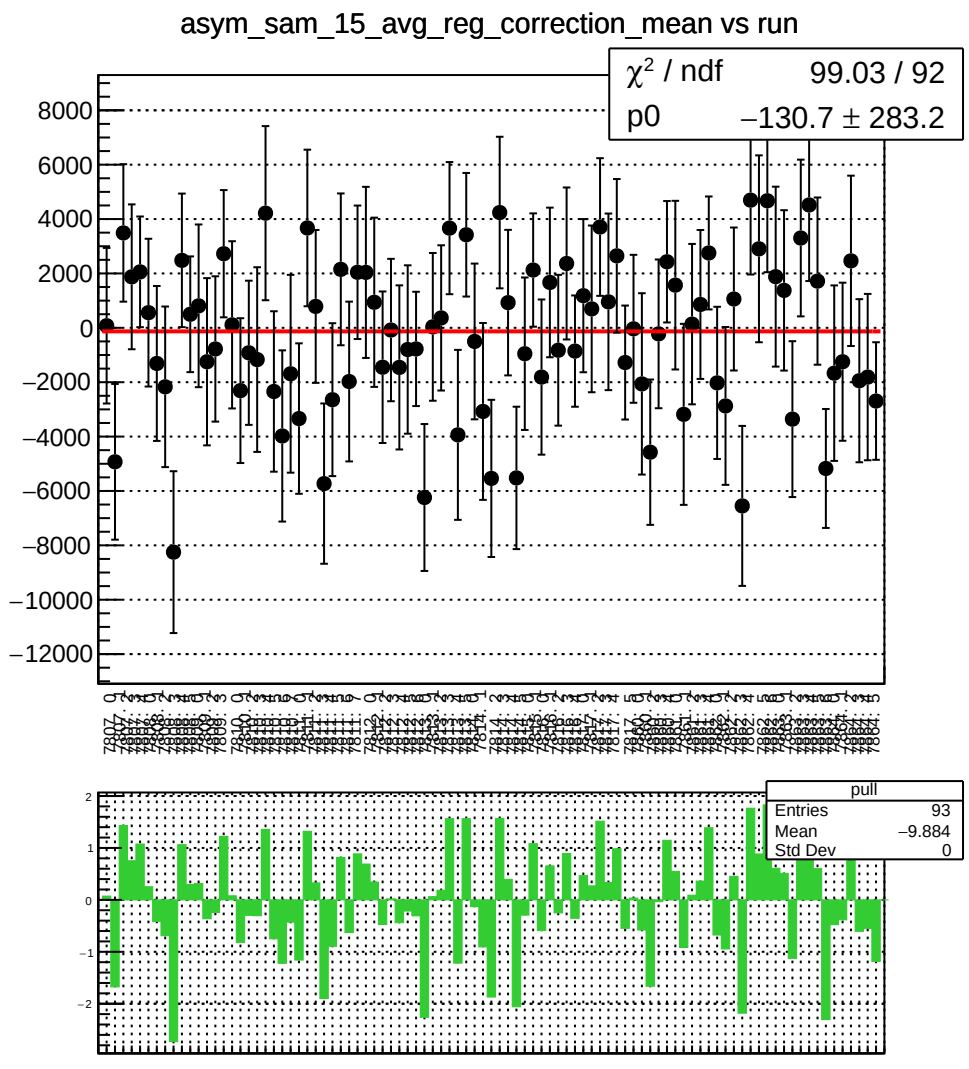

asym_sam8_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 80.78 / 92
p0 −3.056e−14 ± 7.327e−14
pull
Entries 93
Mean 63.67
Std Dev 0
pull1D
Entries 93
Mean 0.02272
Std Dev 0.9317

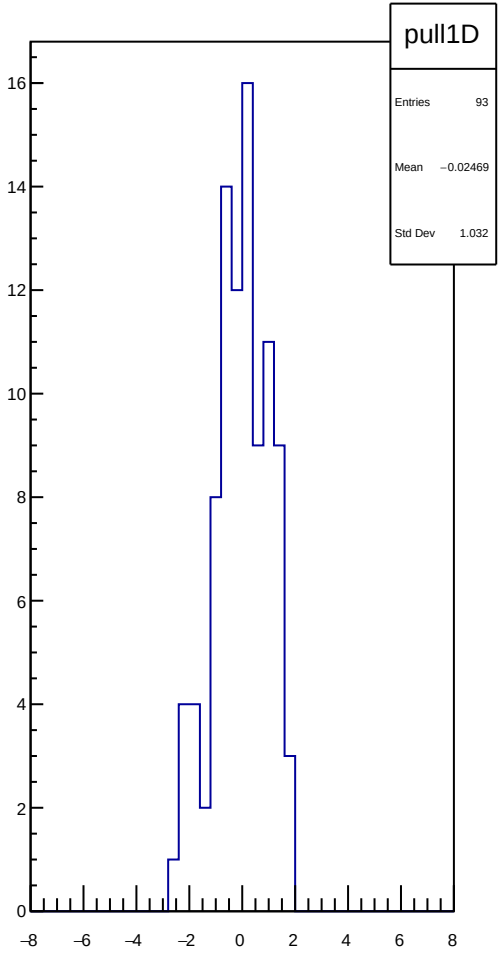

asym_sam8_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.983e+05 / 92
p0 5.058e−11 ± 5.181e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

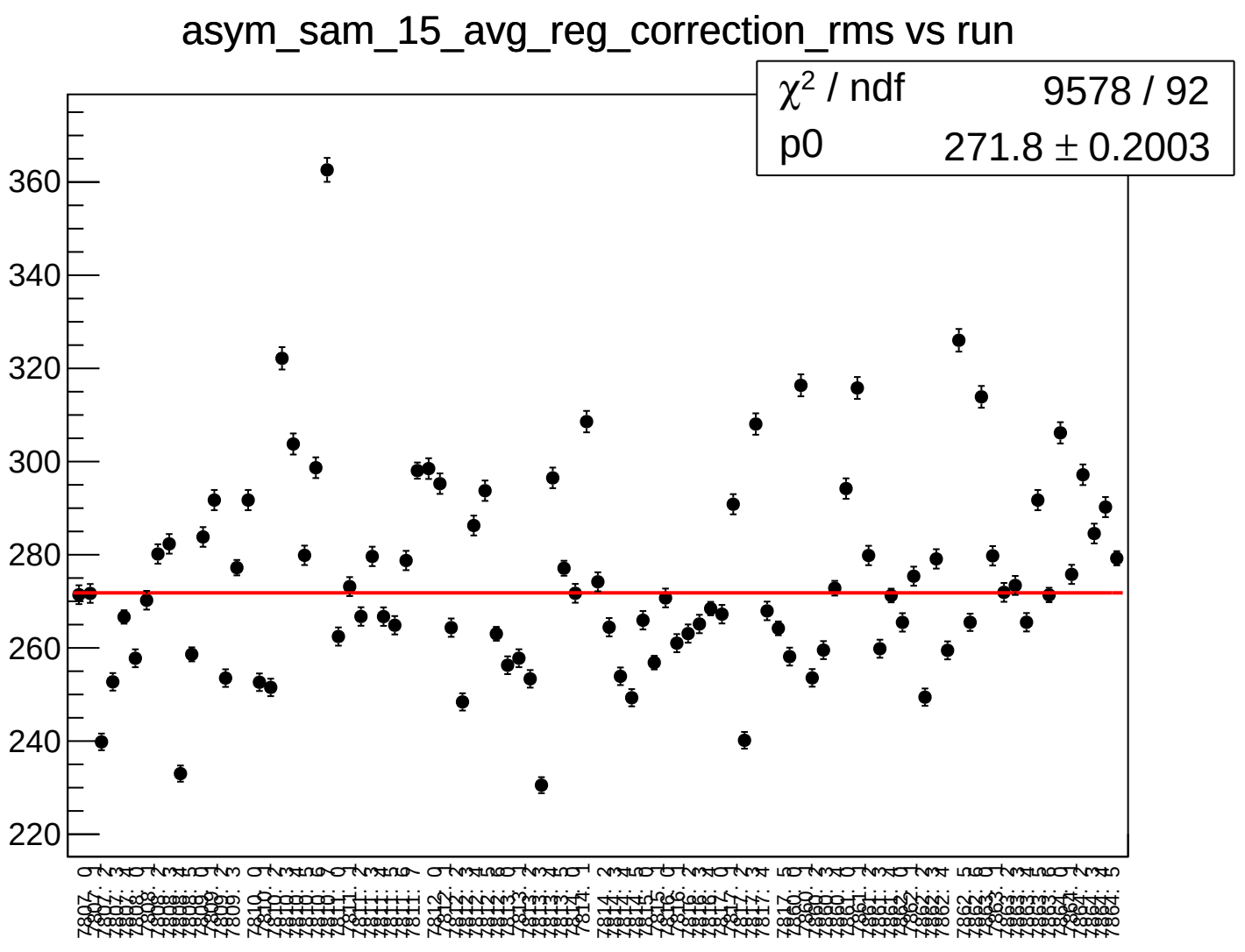

reg_asym_sam_15_avg_mean vs run
χ² / ndf 90.23 / 92
p0 −97.72 ± 75.87
3000
2000
1000
0
−1000
−2000
pull
Entries 93
Mean −391.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

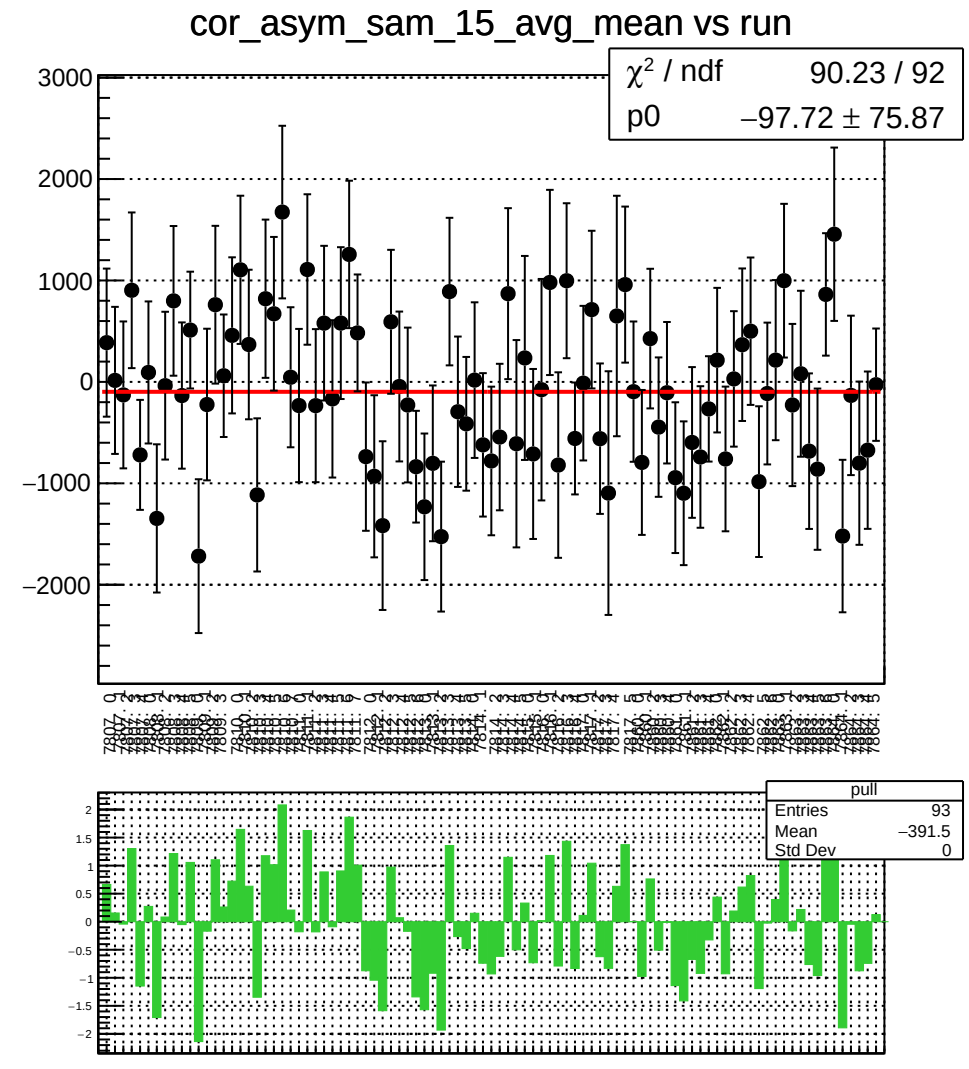

pull1D
Entries 93
Mean 0.008281
Std Dev 0.9849
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

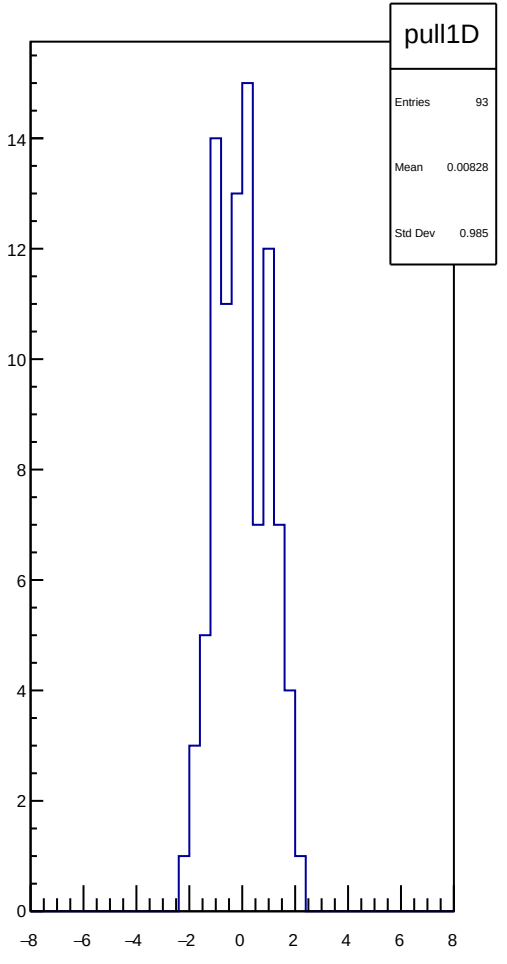

reg_asym_sam_15_avg_rms vs run
χ^2 / ndf 1.935e+04 / 92
p0 72.62 ± 0.05365
120
110
100
90
80
70
60

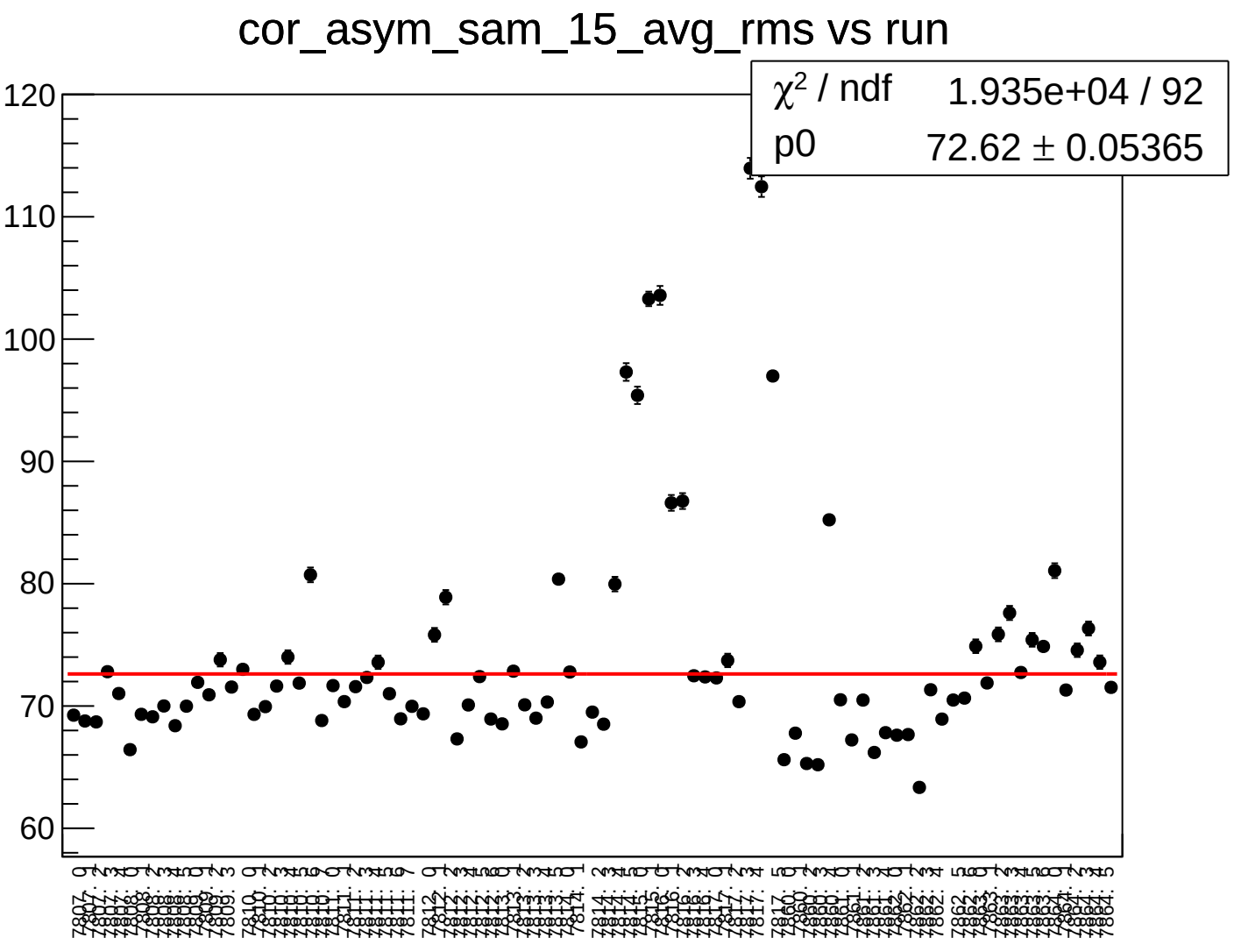

asym_sam_15_avg_reg_correction_mean vs run
χ² / ndf 99.03 / 92
p0 −130.7 ± 283.2
pull
Entries 93
Mean −9.884
Std Dev 0

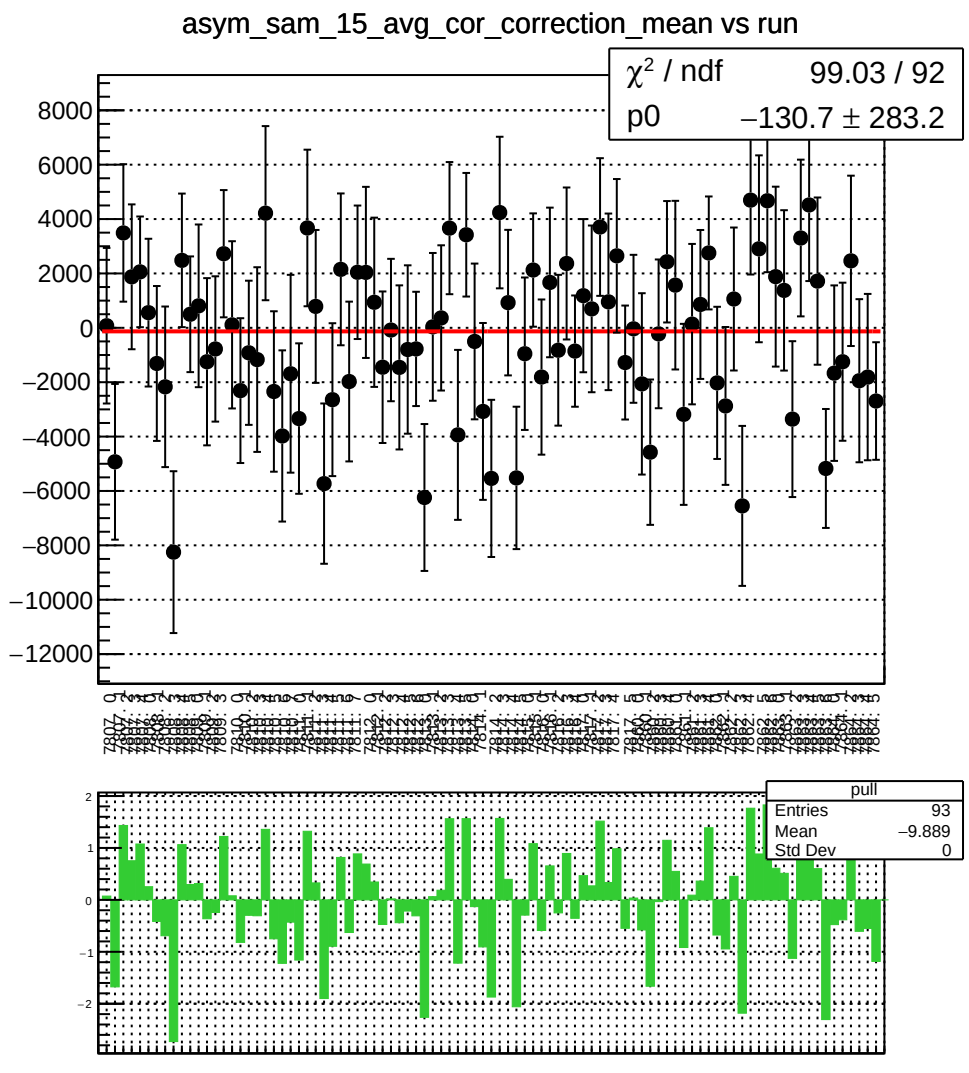

pull1D
Entries 93
Mean −0.02469
Std Dev 1.032

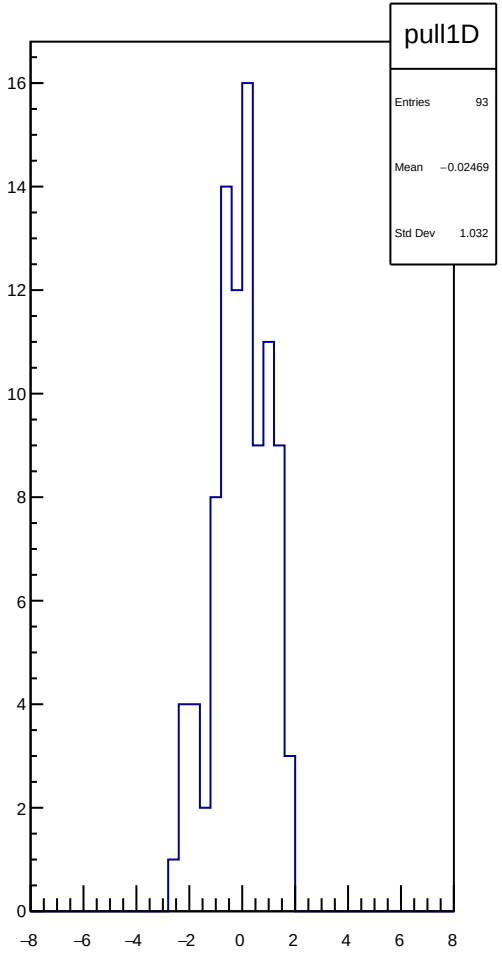

asym_sam_15_avg_reg_correction_rms vs run
χ^2 / ndf 9578 / 92
p0 271.8 ± 0.2003
360
340
320
300
280
260
240
220

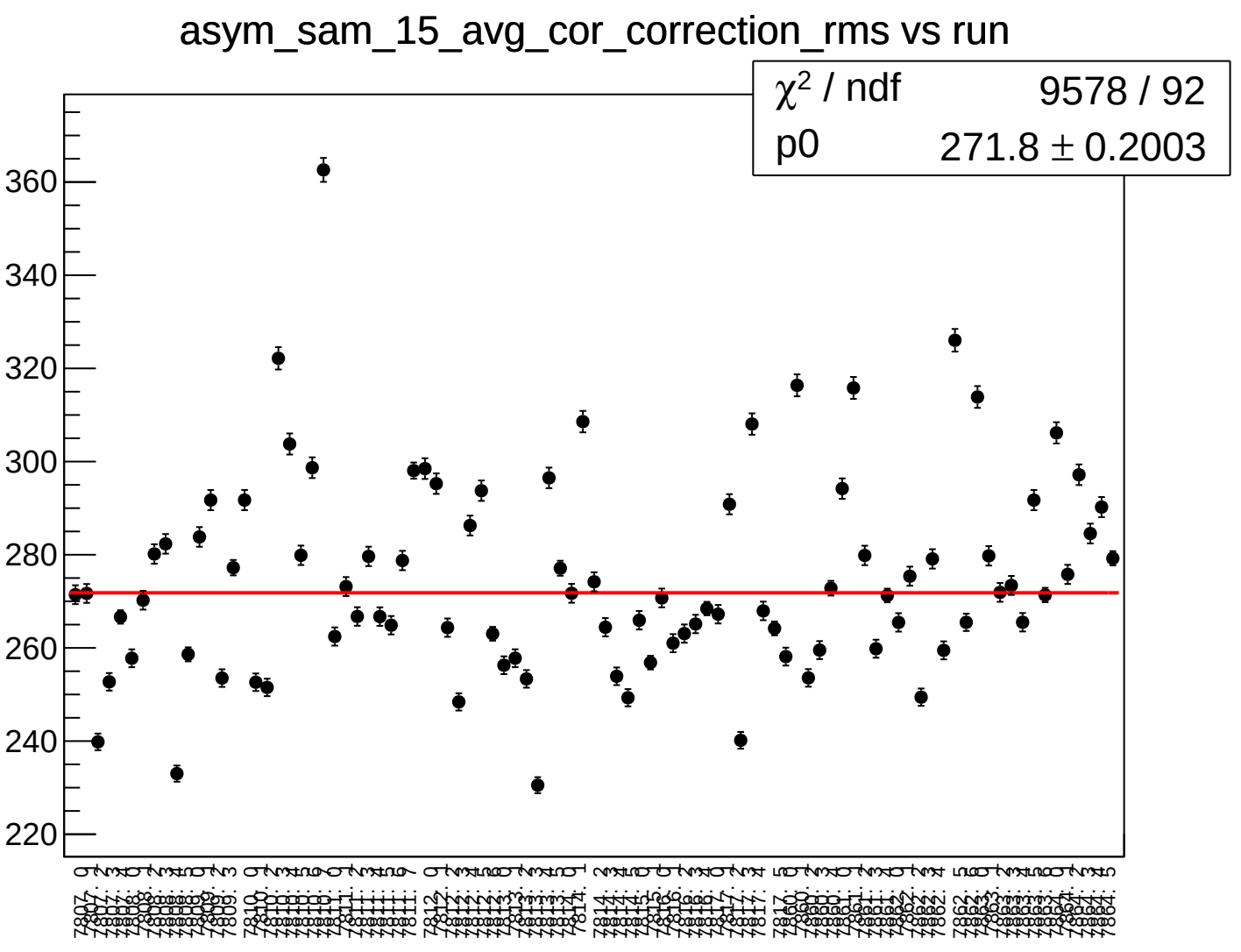

cor_asym_sam_15_avg_mean vs run
χ² / ndf 90.23 / 92
p0 −97.72 ± 75.87
3000
2000
1000
0
−1000
−2000
pull
Entries 93
Mean −391.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

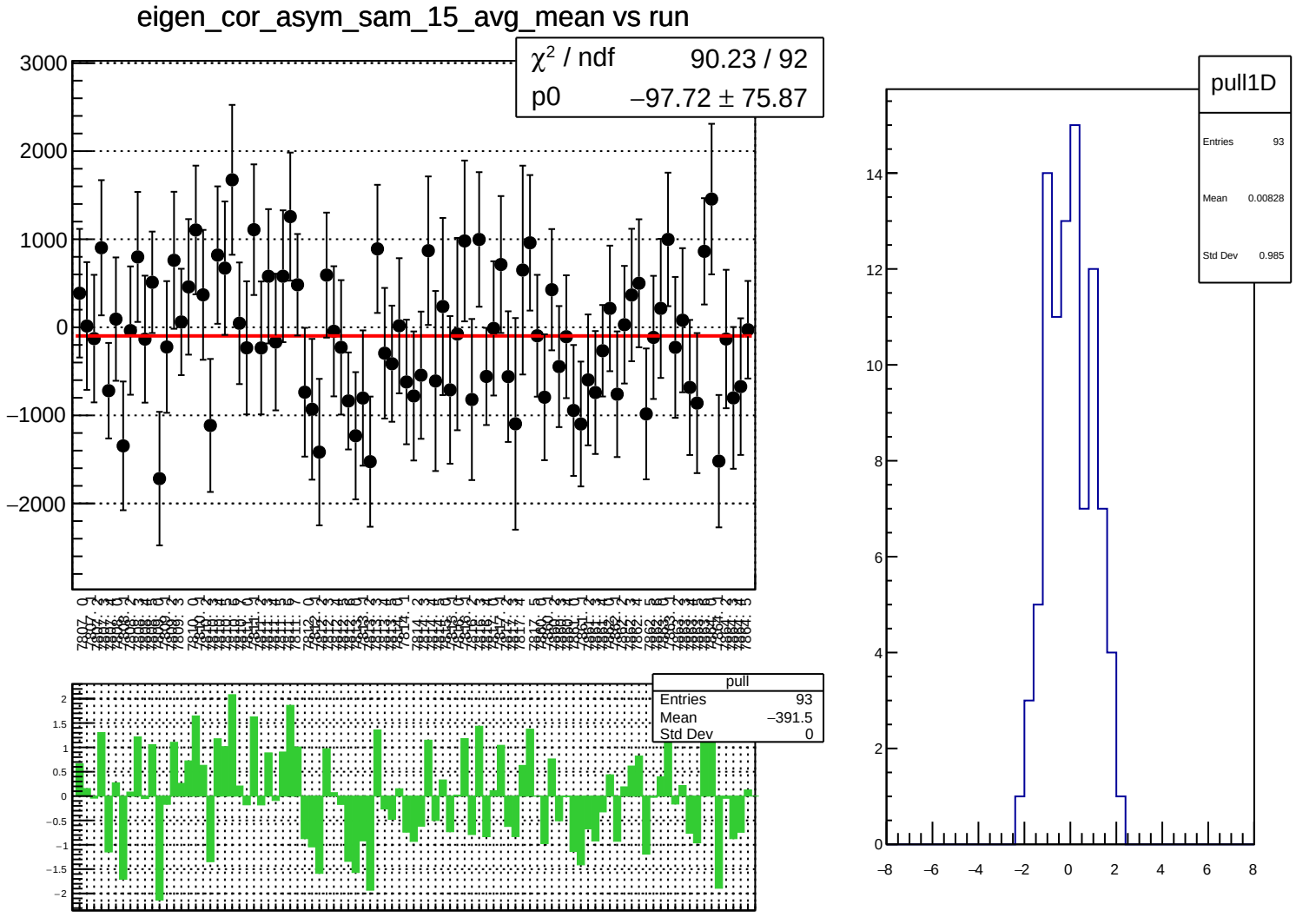

pull1D
Entries 93
Mean 0.00828
Std Dev 0.985
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

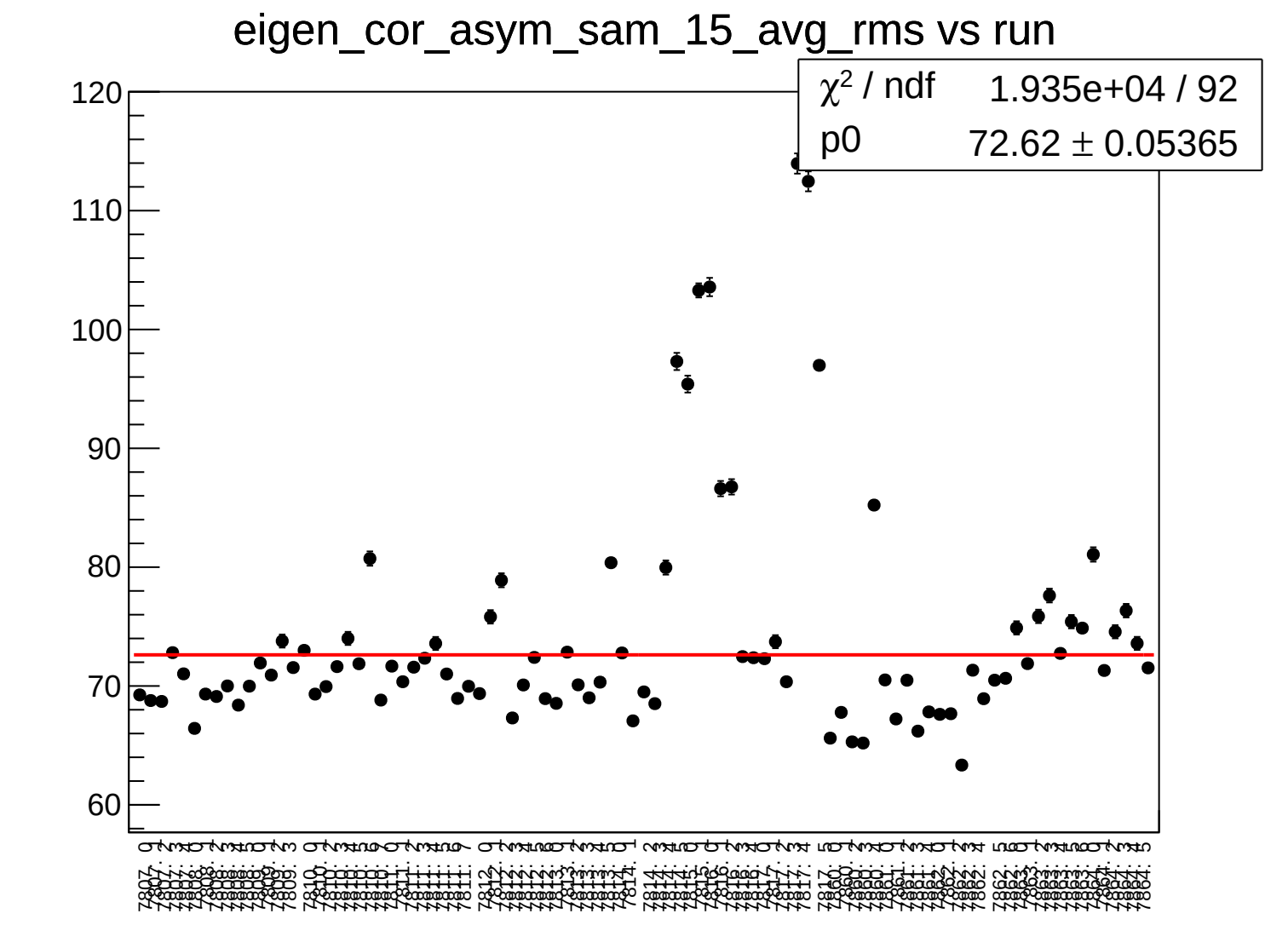

cor_asym_sam_15_avg_rms vs run
χ^2 / ndf 1.935e+04 / 92
p0 72.62 ± 0.05365
120
110
100
90
80
70
60

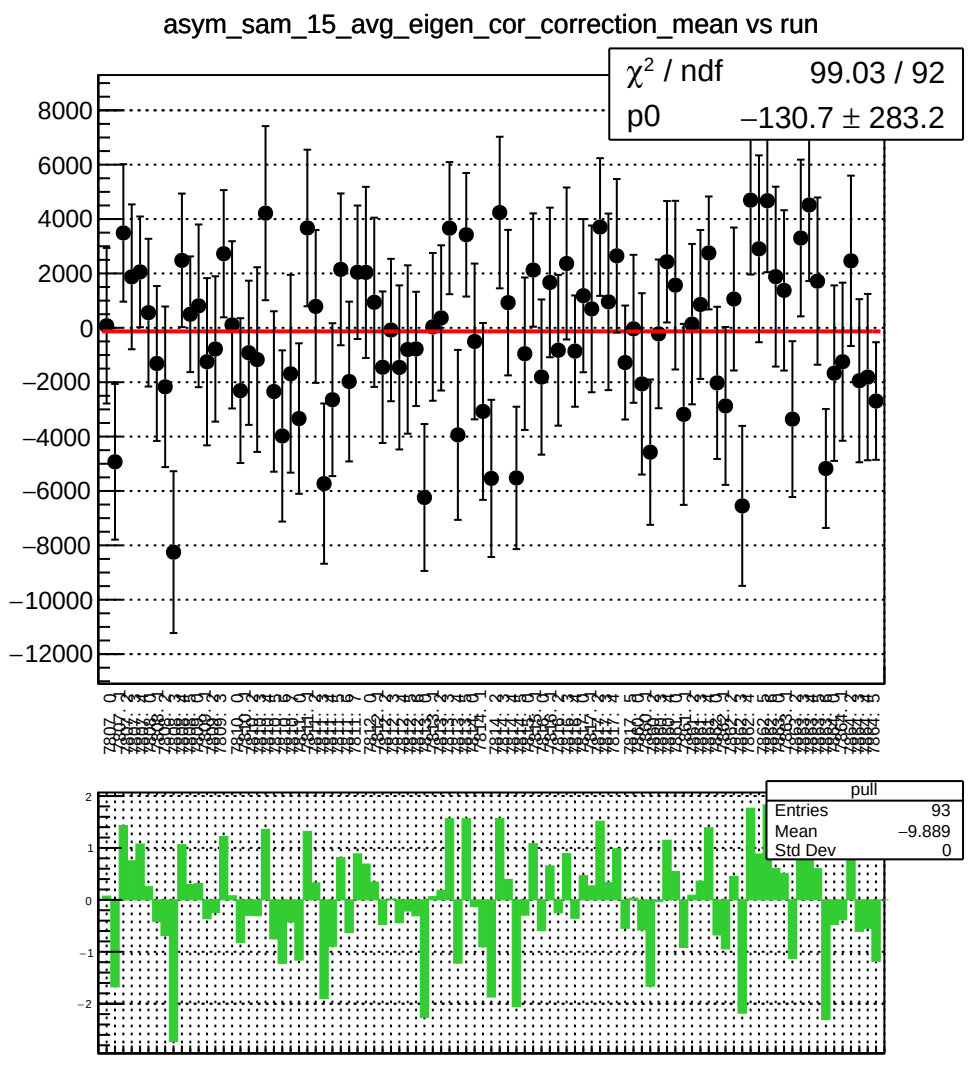

asym_sam_15_avg_cor_correction_mean vs run
χ² / ndf 99.03 / 92
p0 −130.7 ± 283.2
pull
Entries 93
Mean −9.889
Std Dev 0

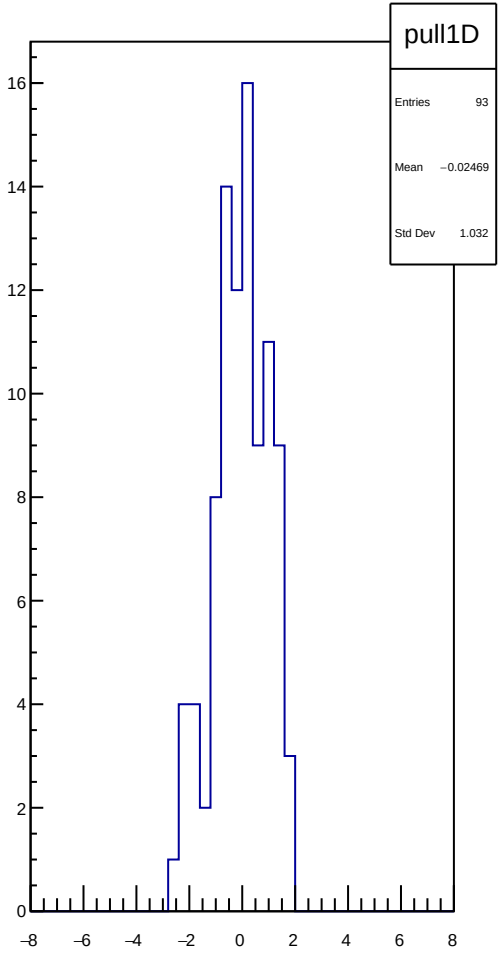

pull1D
Entries 93
Mean −0.02469
Std Dev 1.032

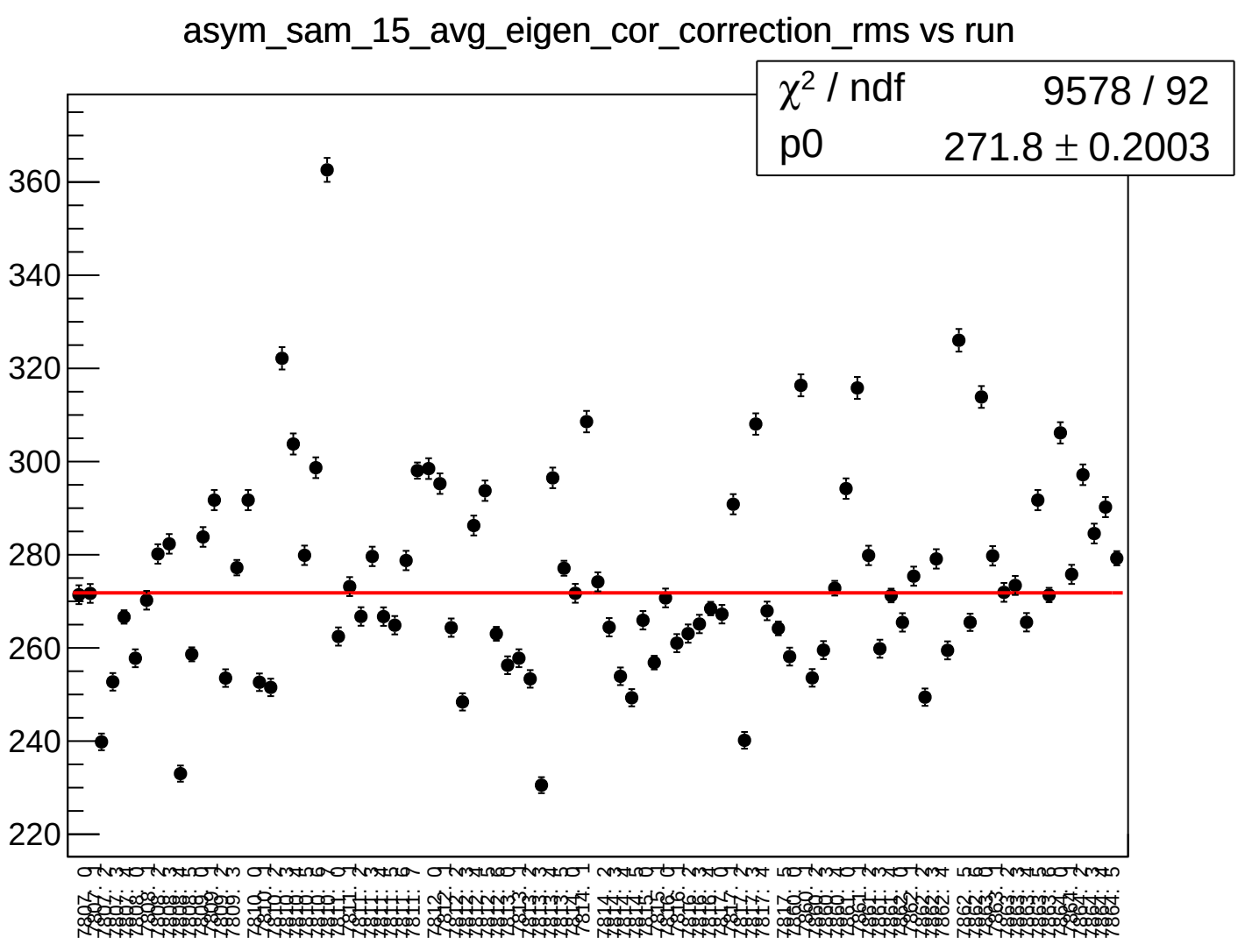

asym_sam_15_avg_cor_correction_rms vs run
χ^2 / ndf 9578 / 92
p0 271.8 ± 0.2003
360
340
320
300
280
260
240
220

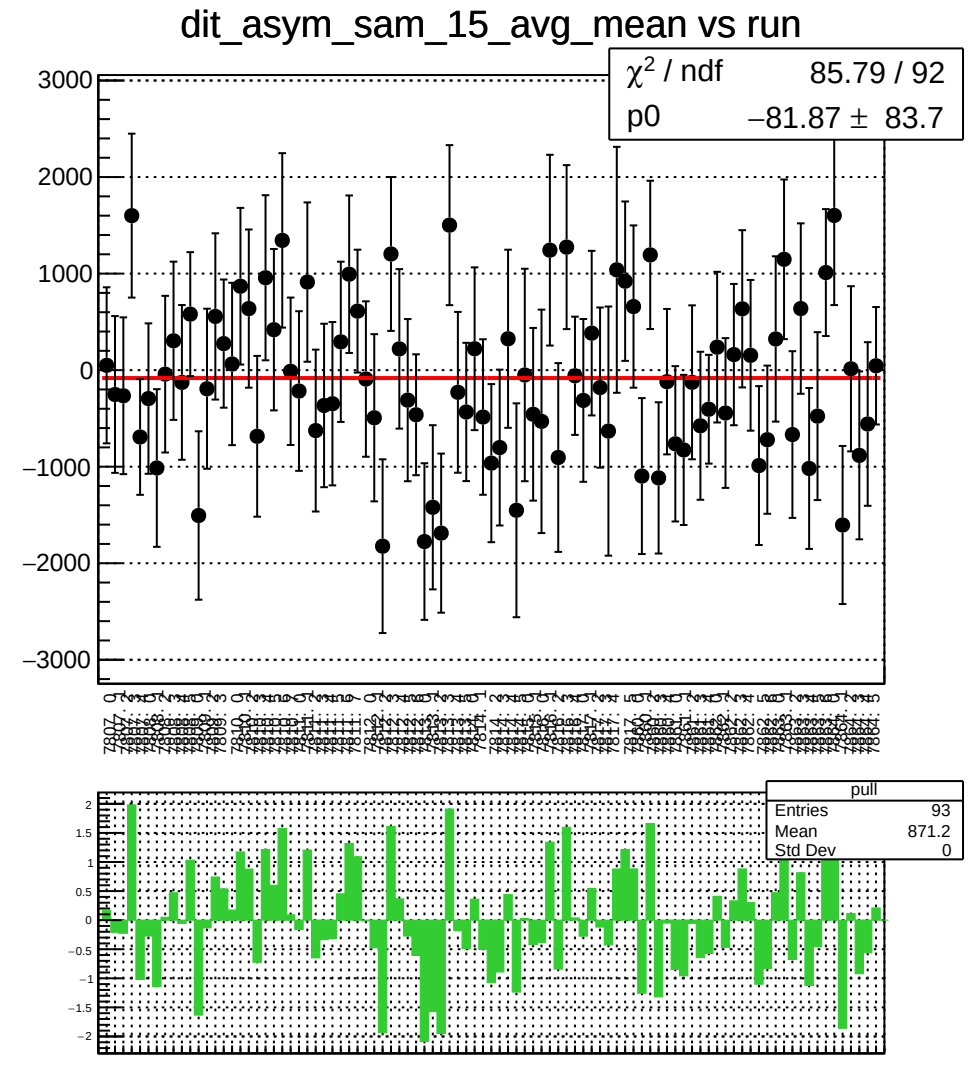

eigen_cor_asym_sam_15_avg_mean vs run
χ² / ndf 90.23 / 92
p0 −97.72 ± 75.87
3000
2000
1000
0
−1000
−2000
pull
Entries 93
Mean −391.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean 0.00828
Std Dev 0.985
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

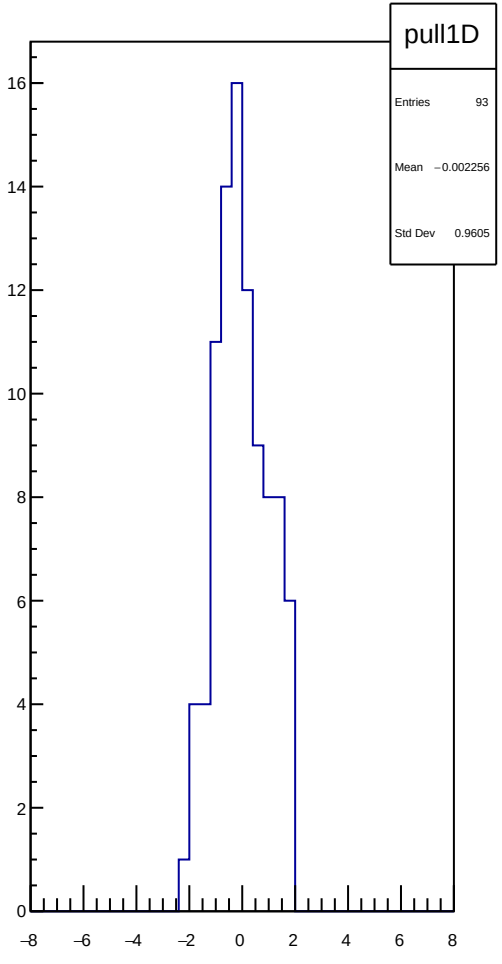

eigen_cor_asym_sam_15_avg_rms vs run
χ^2 / ndf 1.935e+04 / 92
p0 72.62 ± 0.05365
120
110
100
90
80
70
60

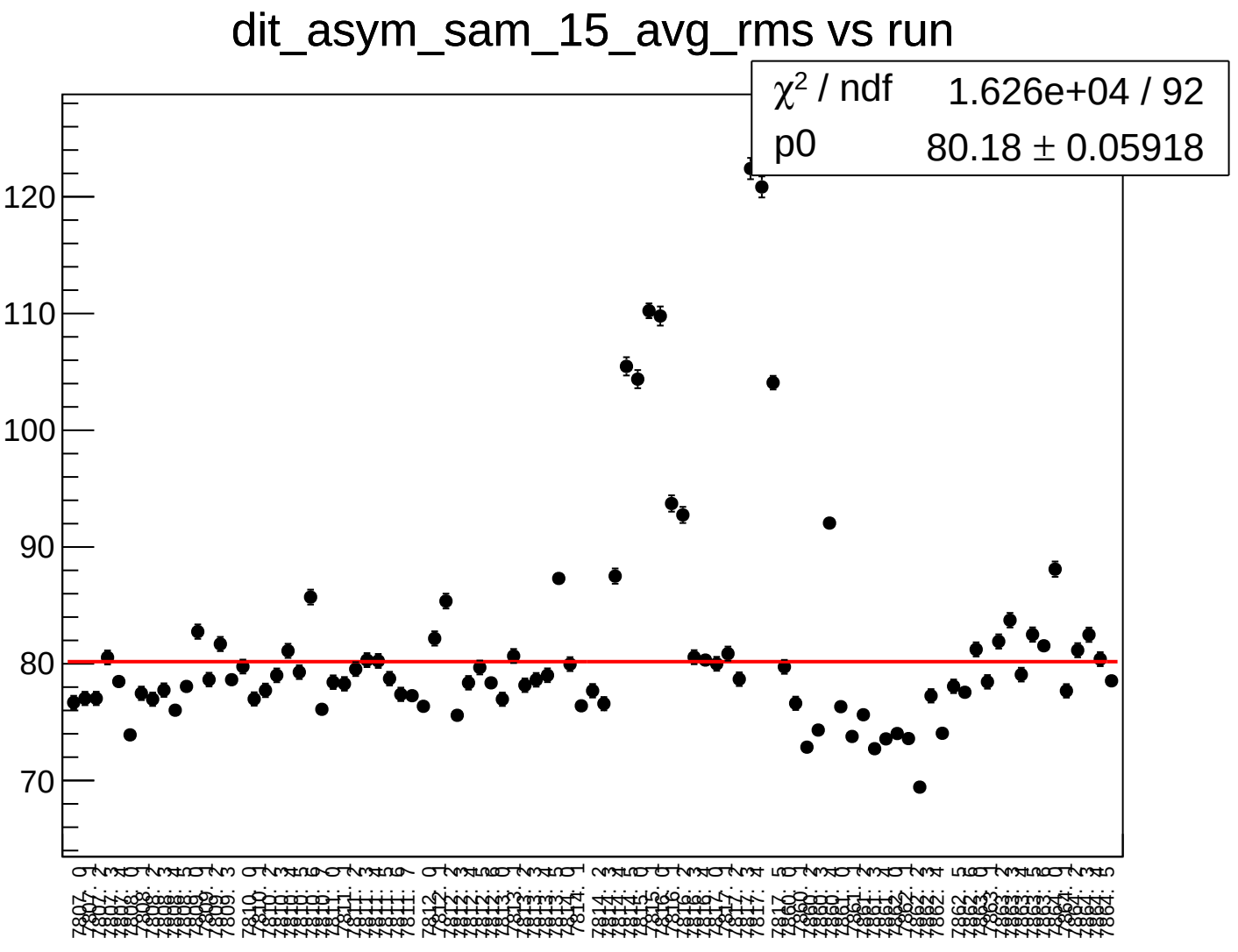

asym_sam_15_avg_eigen_cor_correction_mean vs run
χ² / ndf 99.03 / 92
p0 −130.7 ± 283.2
pull
Entries 93
Mean −9.889
Std Dev 0

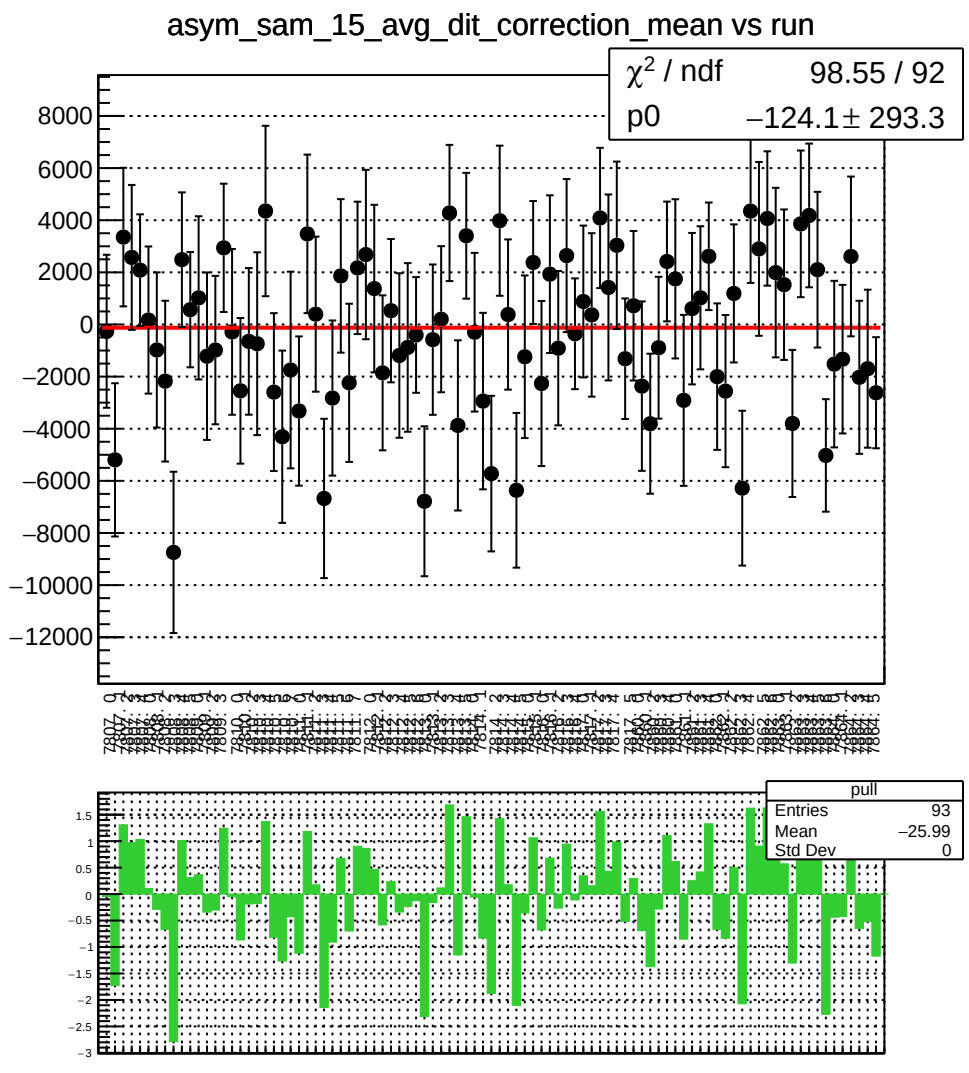

pull1D
Entries 93
Mean −0.02469
Std Dev 1.032

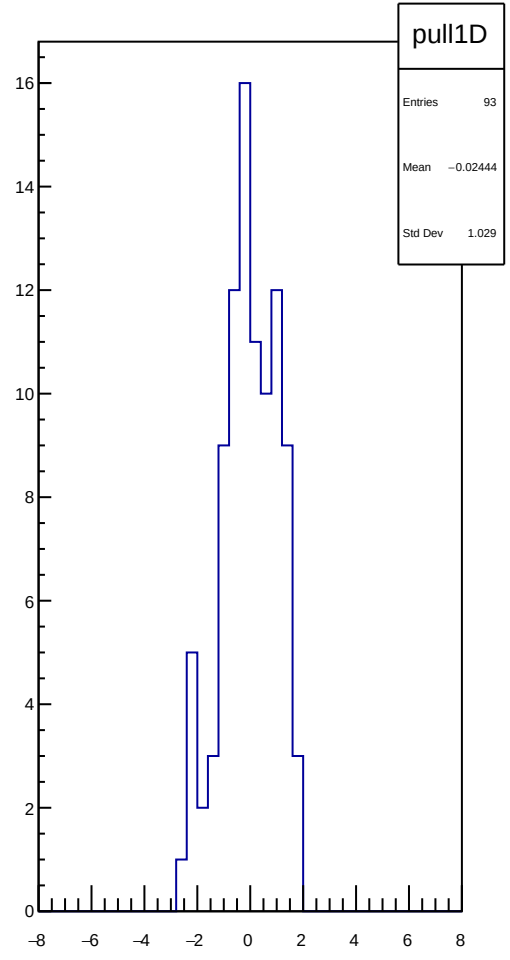

asym_sam_15_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 9578 / 92
p0 271.8 ± 0.2003
360
340
320
300
280
260
240
220

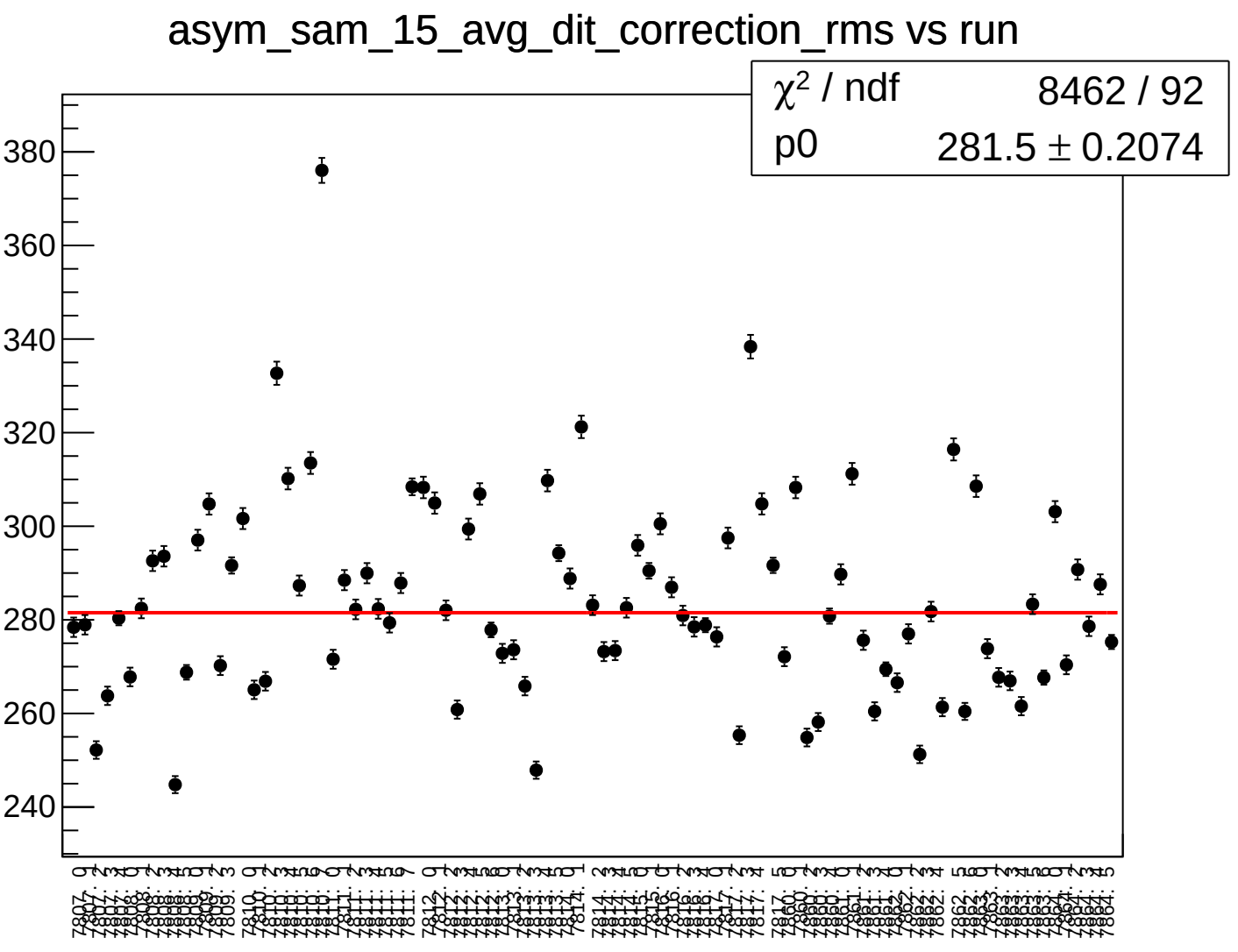

dit_asym_sam_15_avg_mean vs run
χ² / ndf 85.79 / 92
p0 −81.87 ± 83.7
pull
Entries 93
Mean 871.2
Std Dev 0

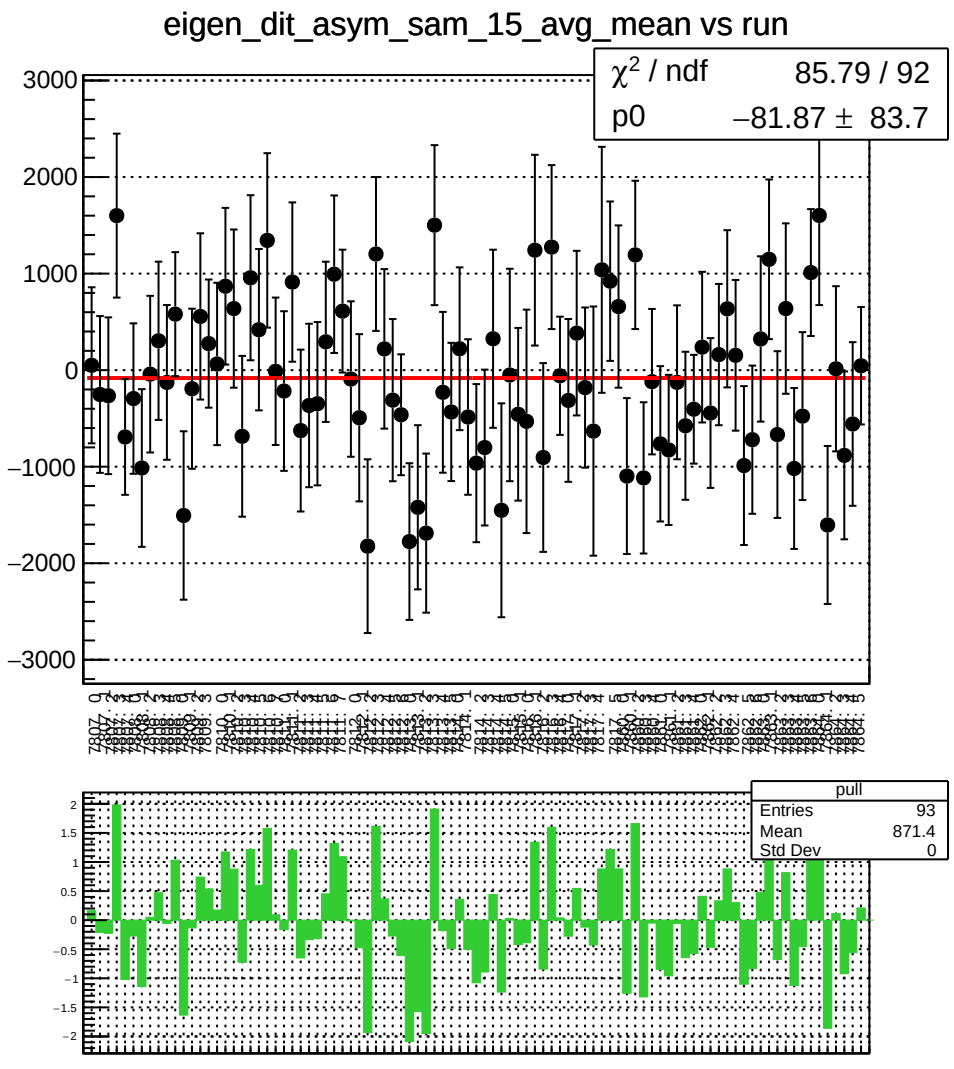

pull1D
Entries 93
Mean −0.002256
Std Dev 0.9605

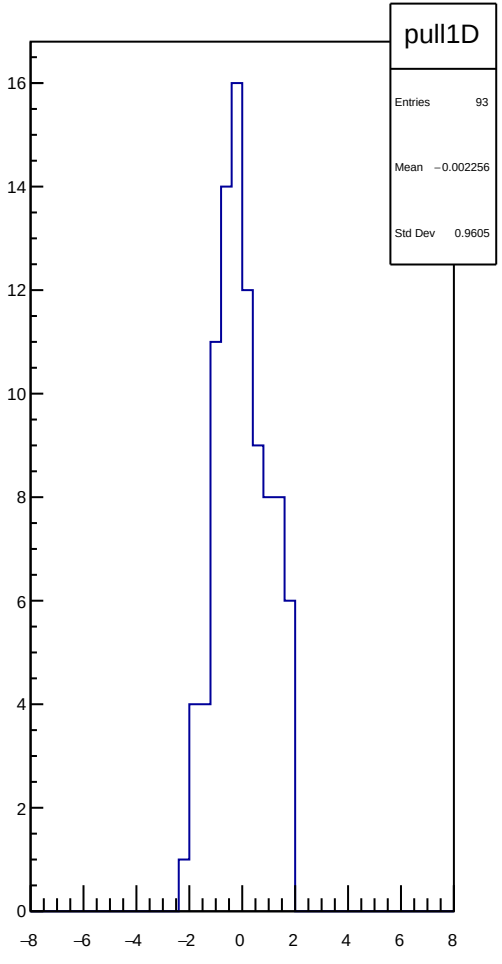

dit_asym_sam_15_avg_rms vs run
χ^2 / ndf 1.626e+04 / 92
p0 80.18 ± 0.05918
120
110
100
90
80
70

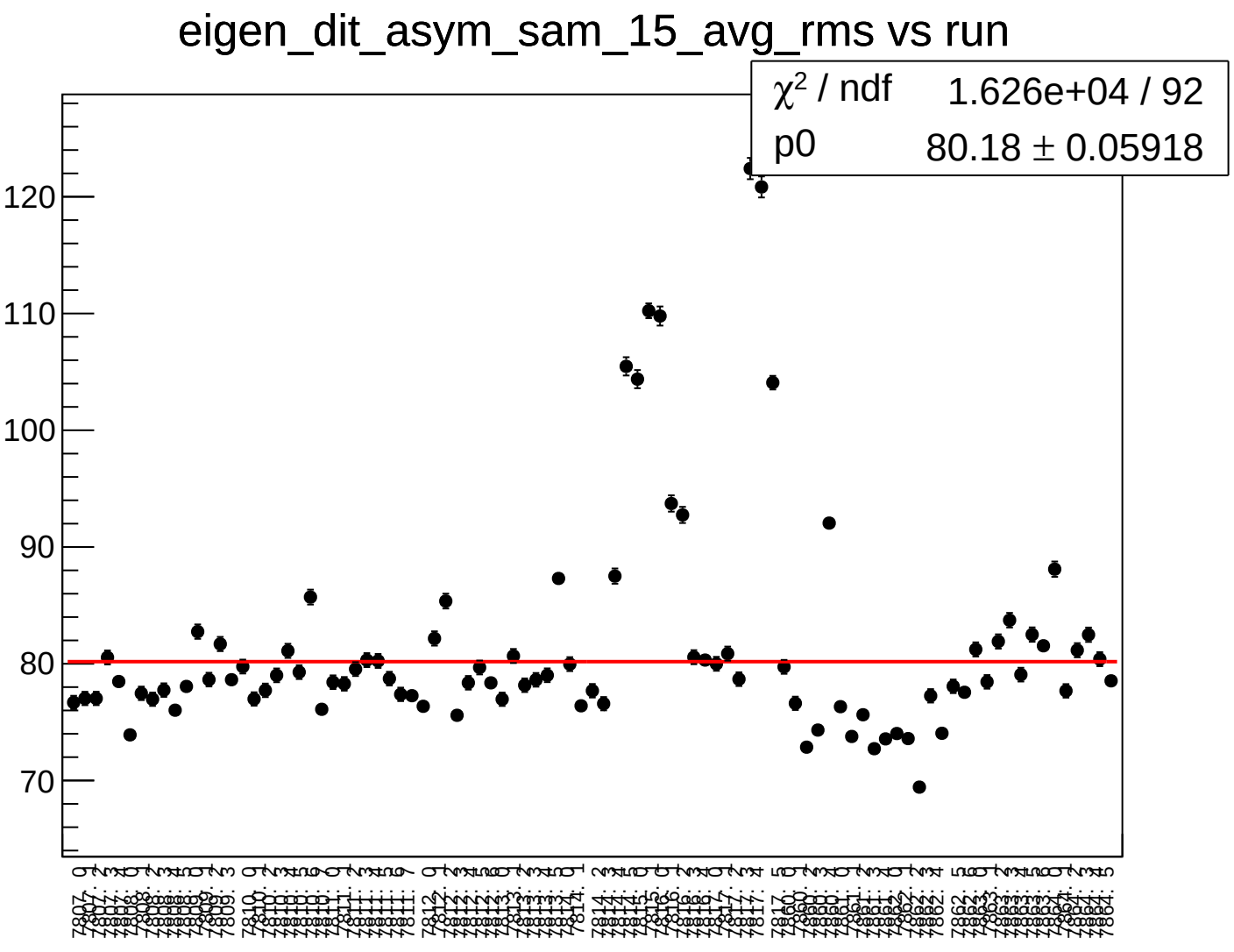

asym_sam_15_avg_dit_correction_mean vs run
χ² / ndf 98.55 / 92
p0 −124.1± 293.3
pull
Entries 93
Mean −25.99
Std Dev 0

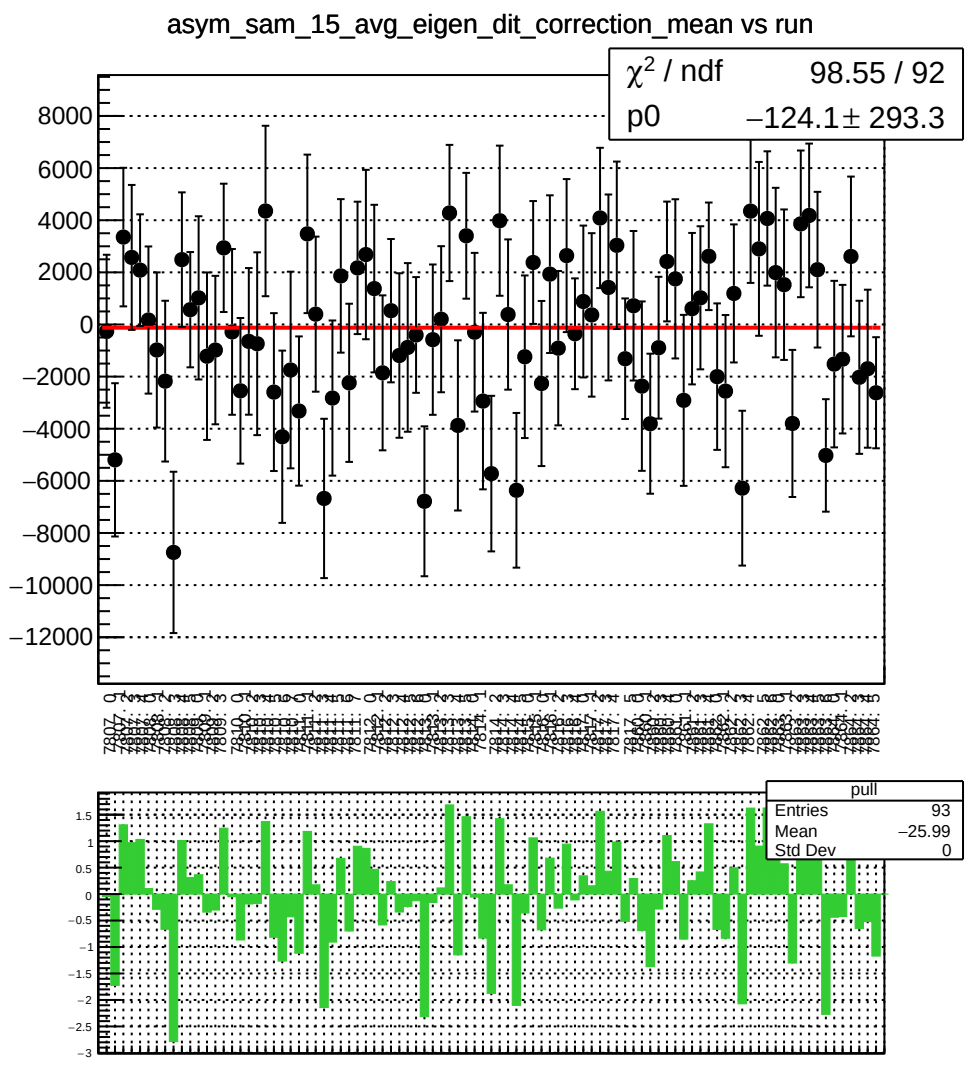

pull1D
Entries 93
Mean −0.02444
Std Dev 1.029

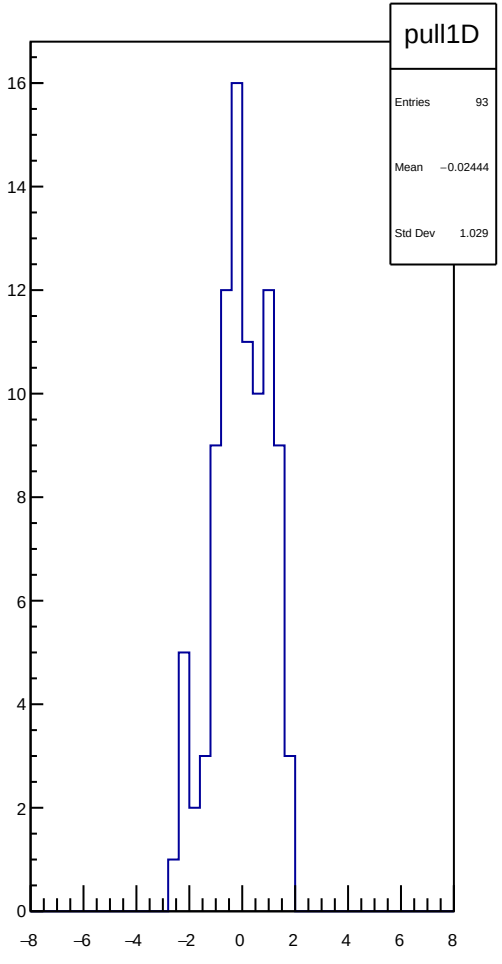

asym_sam_15_avg_dit_correction_rms vs run
χ² / ndf 8462 / 92
p0 281.5 ± 0.2074
380
360
340
320
300
280
260
240

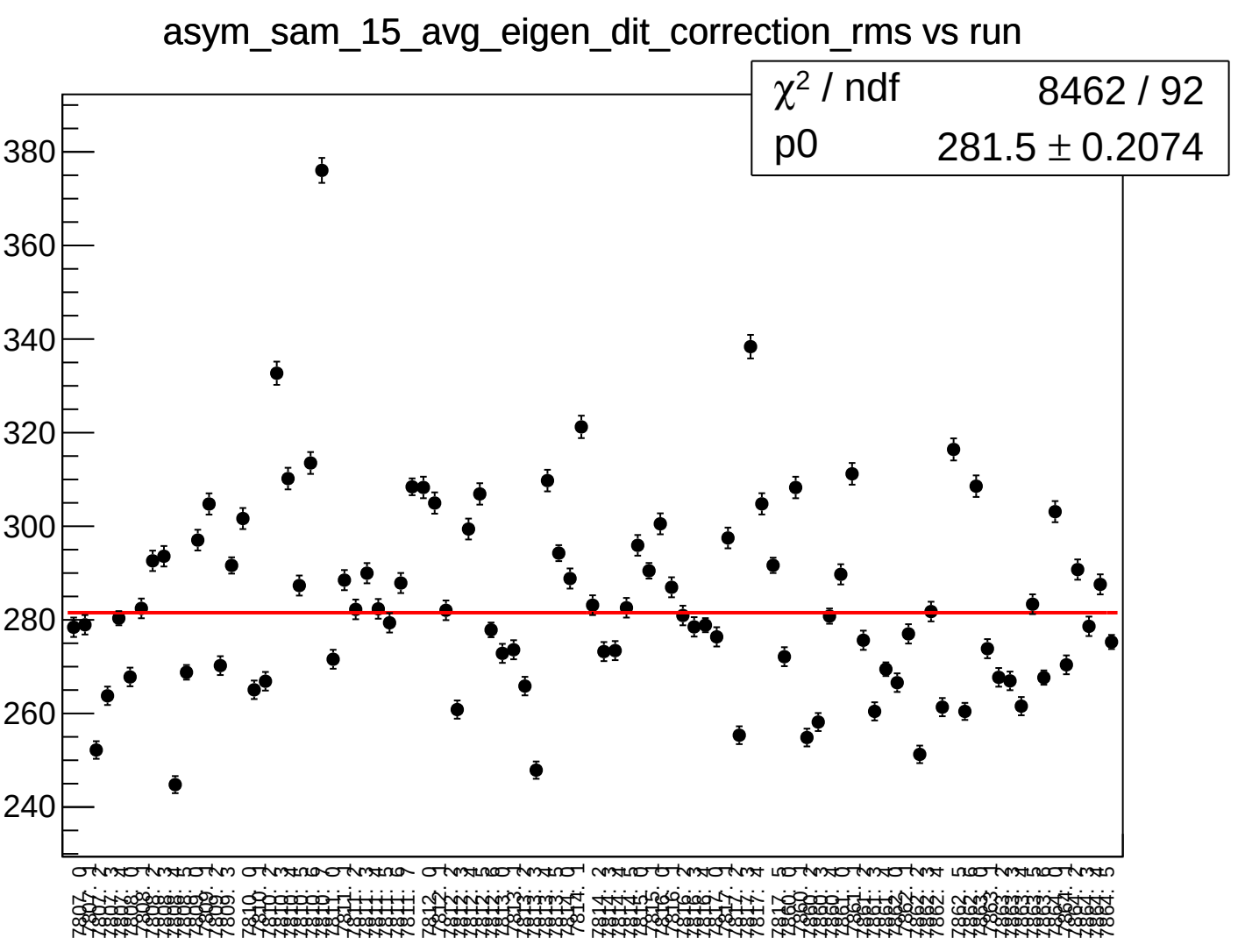

eigen_dit_asym_sam_15_avg_mean vs run
χ² / ndf 85.79 / 92
p0 −81.87 ± 83.7
pull
Entries 93
Mean 871.4
Std Dev 0

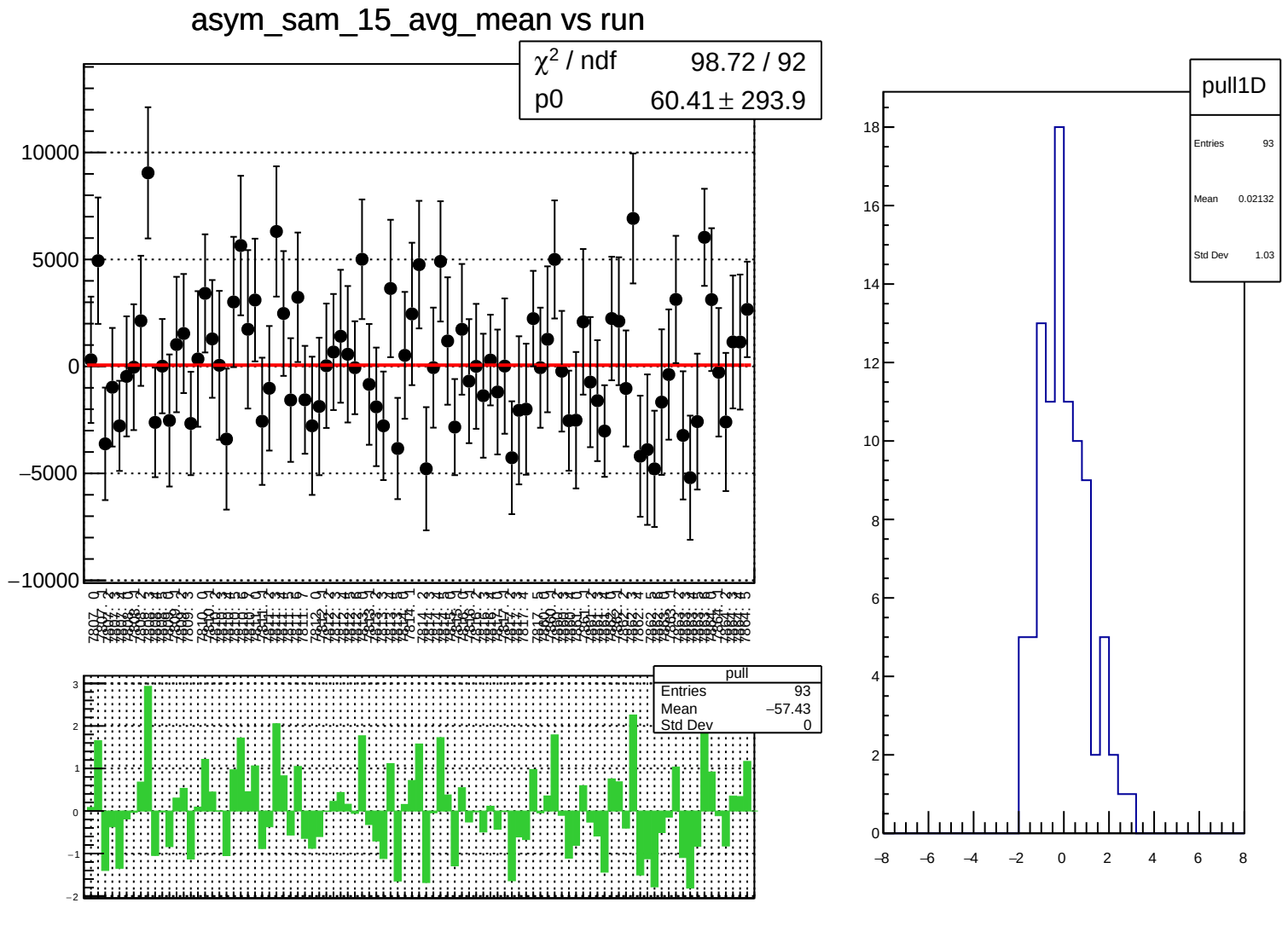

pull1D
Entries 93
Mean −0.002256
Std Dev 0.9605

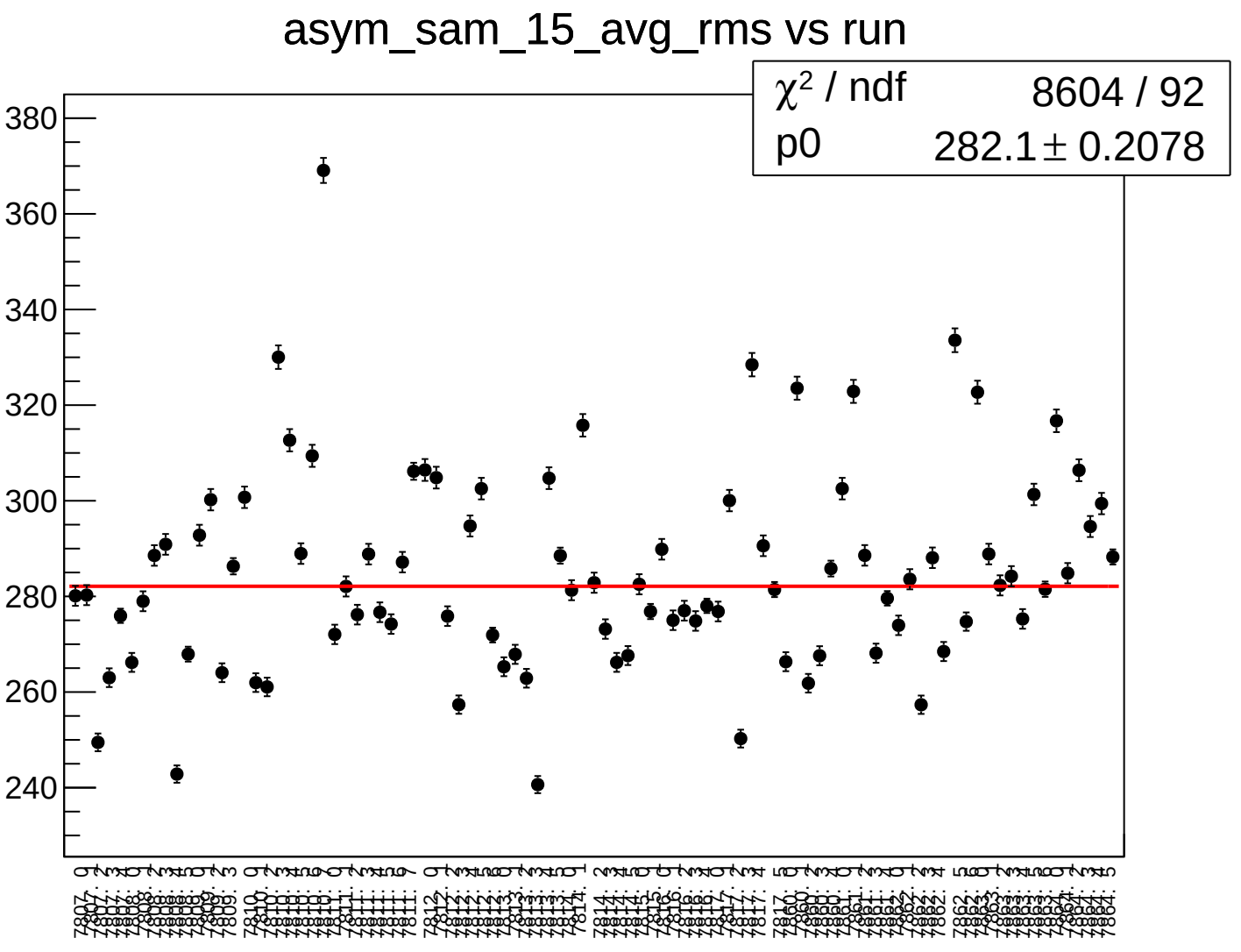

eigen_dit_asym_sam_15_avg_rms vs run
χ² / ndf 1.626e+04 / 92
p0 80.18 ± 0.05918
120
110
100
90
80
70

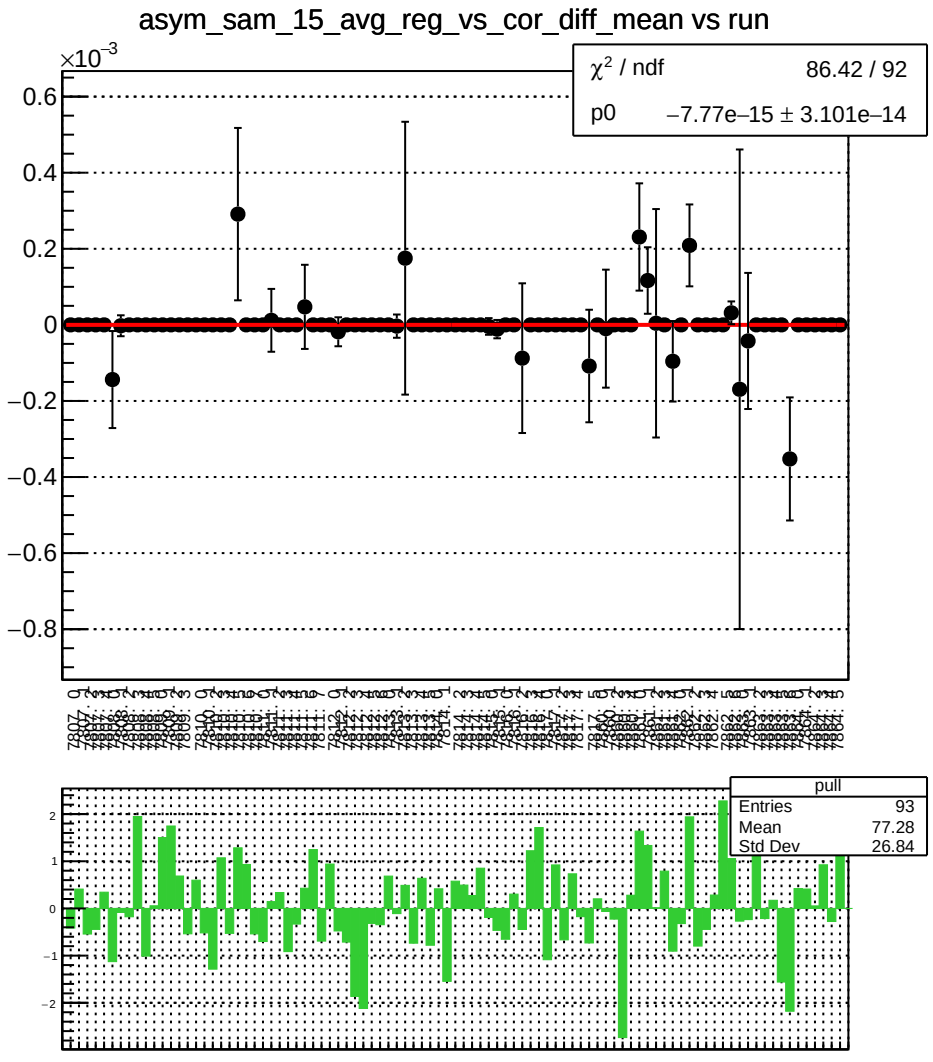

asym_sam_15_avg_eigen_dit_correction_mean vs run
χ² / ndf 98.55 / 92
p0 −124.1± 293.3
pull
Entries 93
Mean −25.99
Std Dev 0

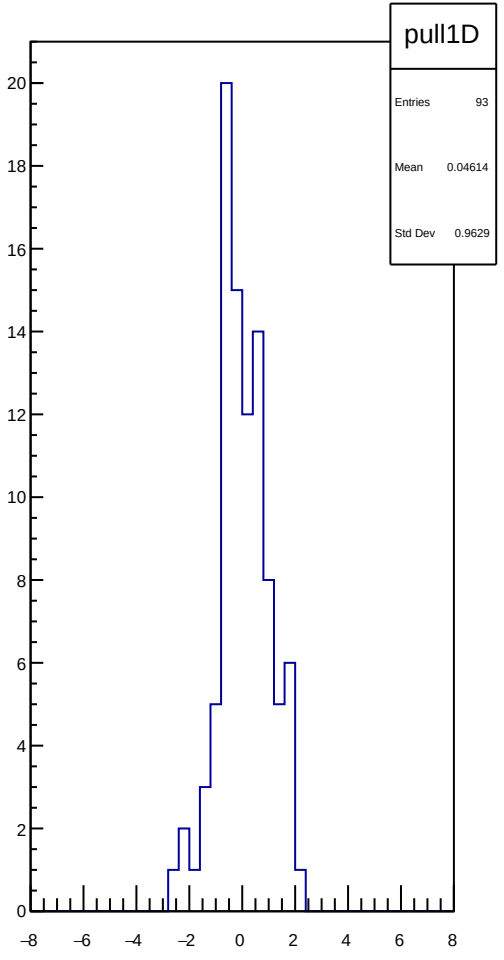

pull1D
Entries 93
Mean −0.02444
Std Dev 1.029

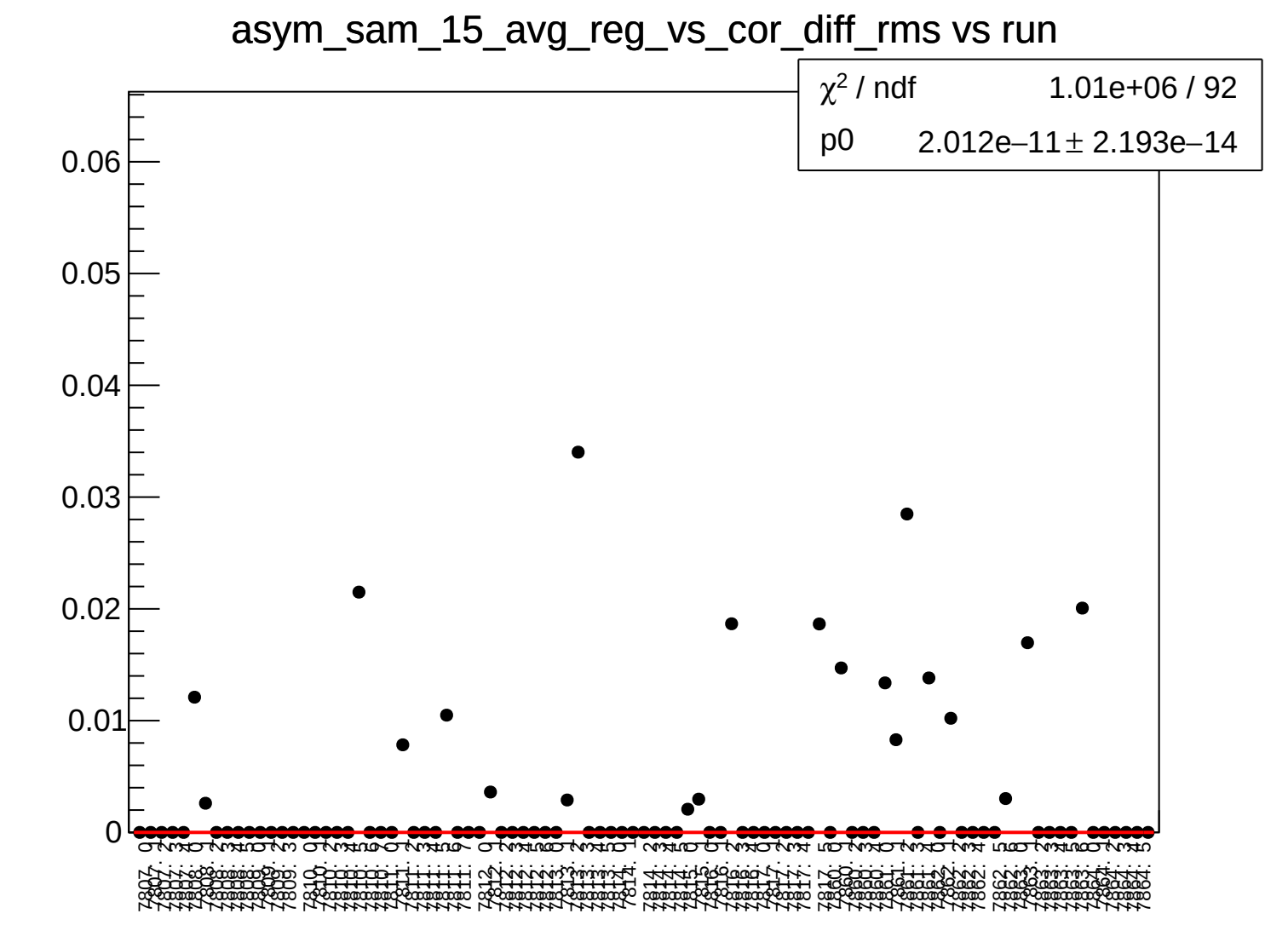

asym_sam_15_avg_eigen_dit_correction_rms vs run
χ² / ndf 8462 / 92
p0 281.5 ± 0.2074
380
360
340
320
300
280
260
240

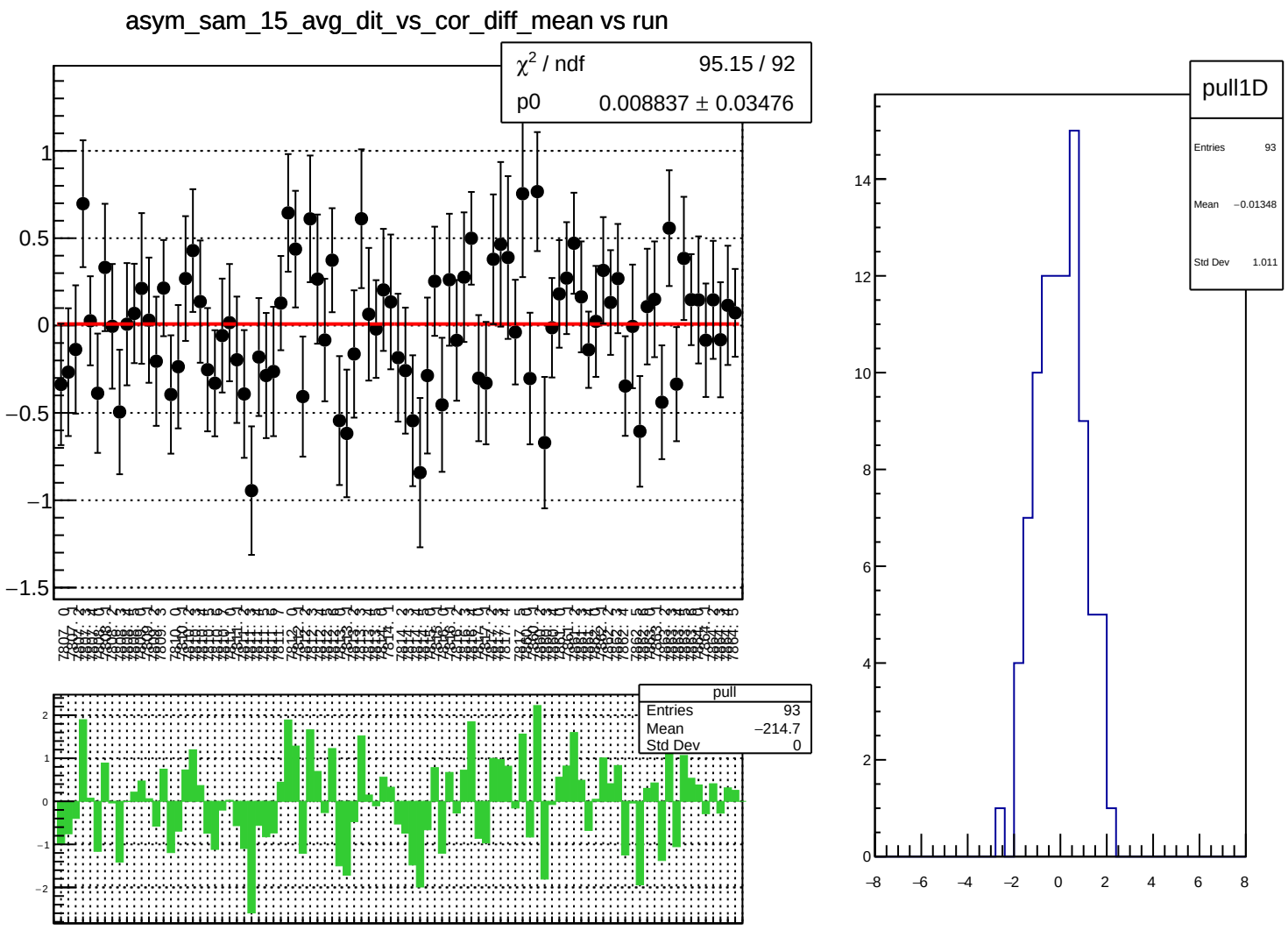

asym_sam_15_avg_mean vs run
χ² / ndf 98.72 / 92
p0 60.41 ± 293.9
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −57.43
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.02132
Std Dev 1.03
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

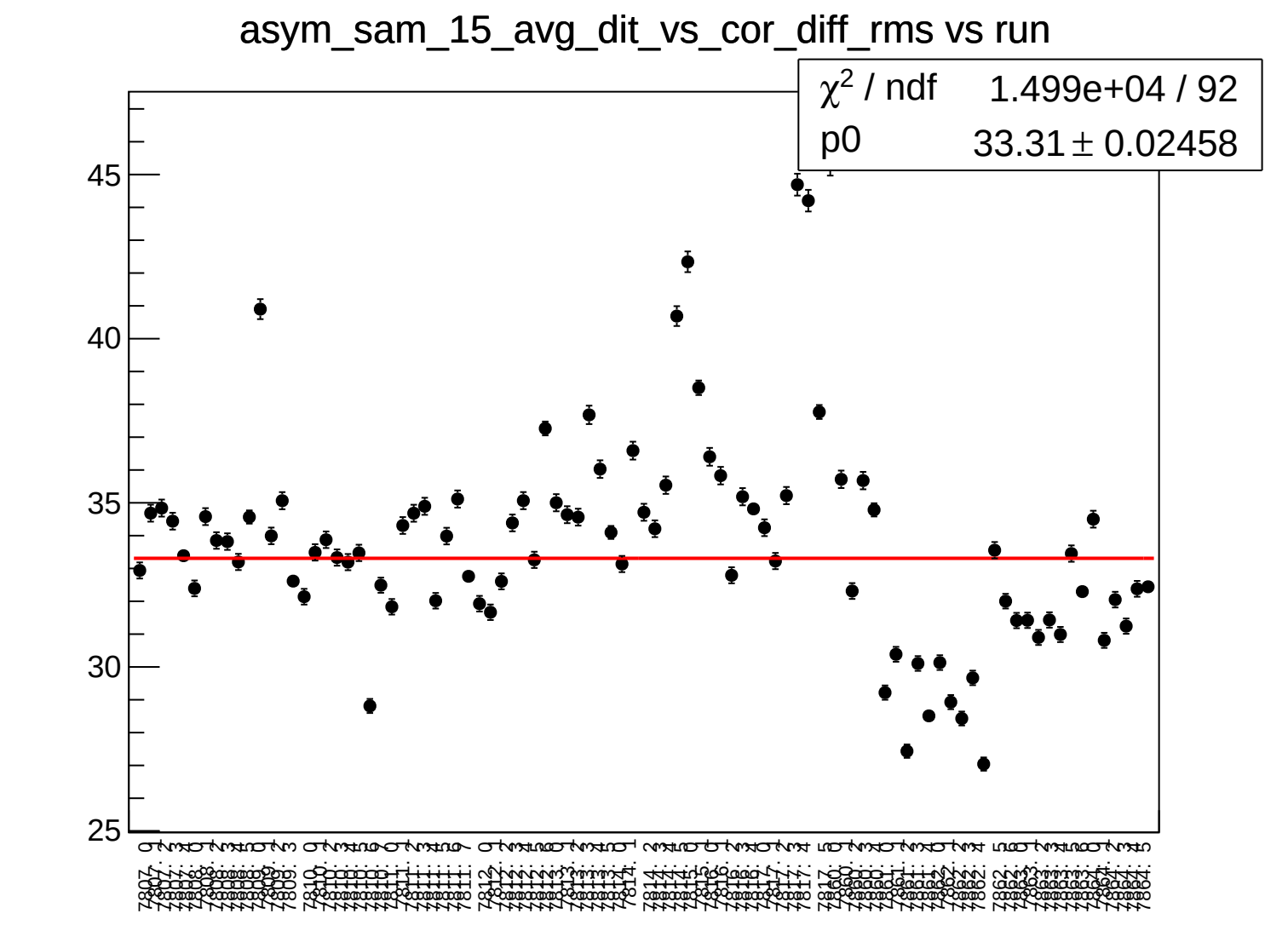

asym_sam_15_avg_rms vs run
χ² / ndf 8604 / 92
p0 282.1 ± 0.2078
380
360
340
320
300
280
260
240

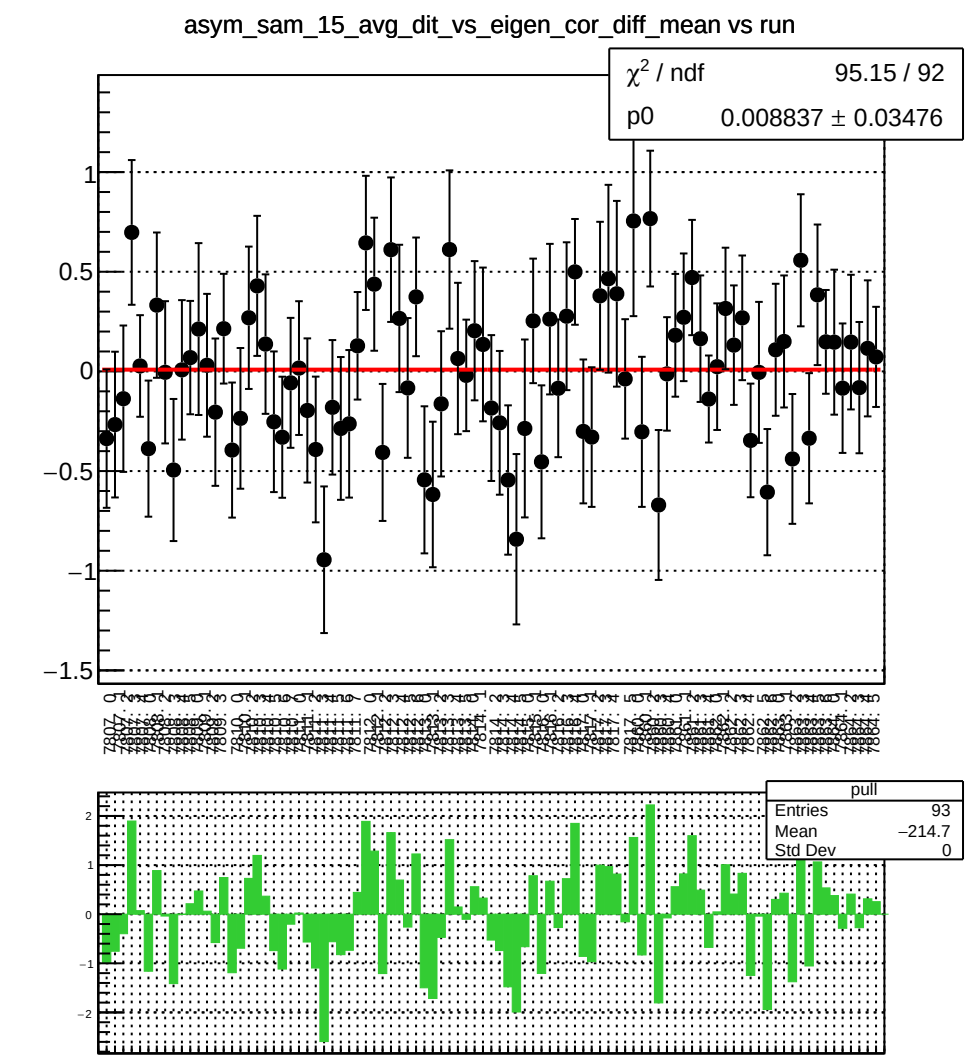

asym_sam_15_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 86.42 / 92
p0 −7.77e−15 ± 3.101e−14
pull
Entries 93
Mean 77.28
Std Dev 26.84

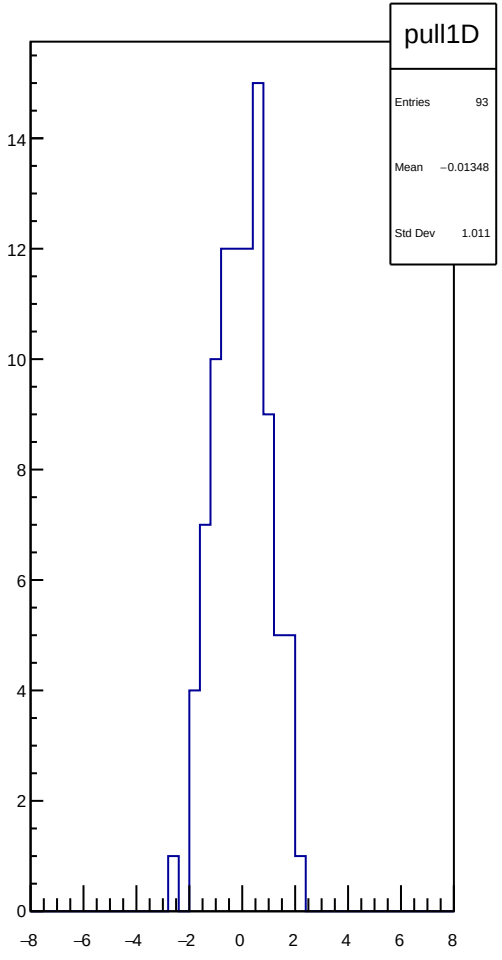

pull1D
Entries 93
Mean 0.04614
Std Dev 0.9629

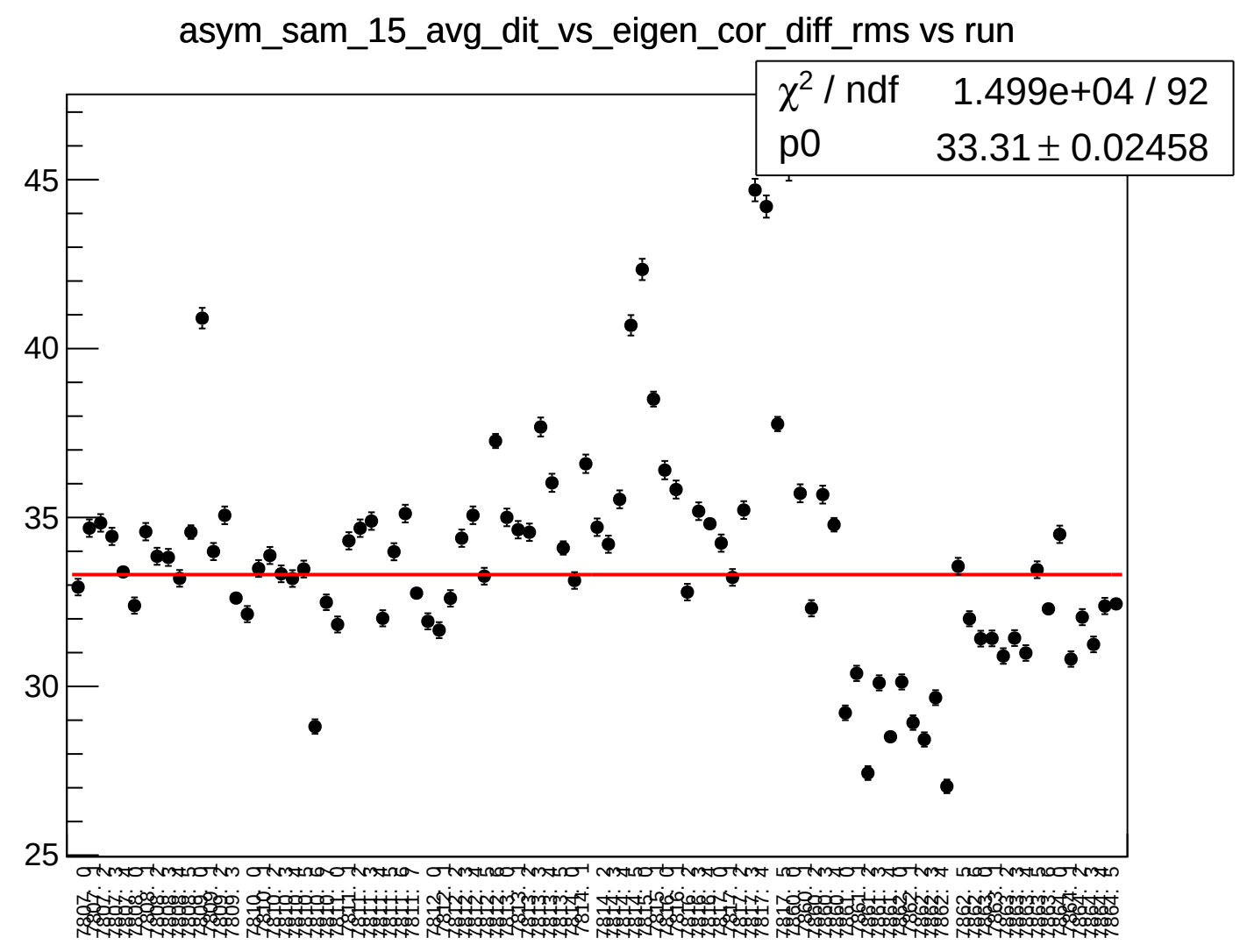

asym_sam_15_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.01e+06 / 92
p0 2.012e−11 ± 2.193e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

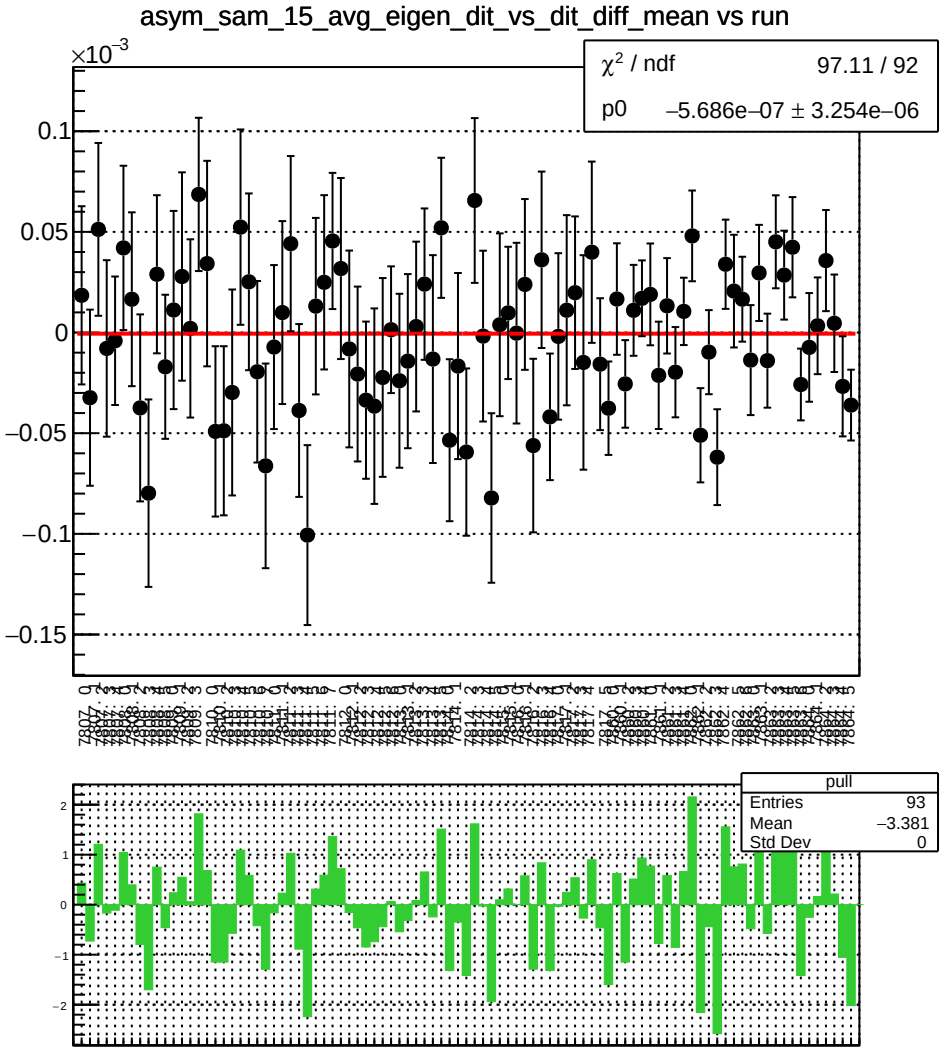

asym_sam_15_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 95.15 / 92
p0 0.008837 ± 0.03476
pull
Entries 93
Mean −214.7
Std Dev 0
pull1D
Entries 93
Mean −0.01348
Std Dev 1.011

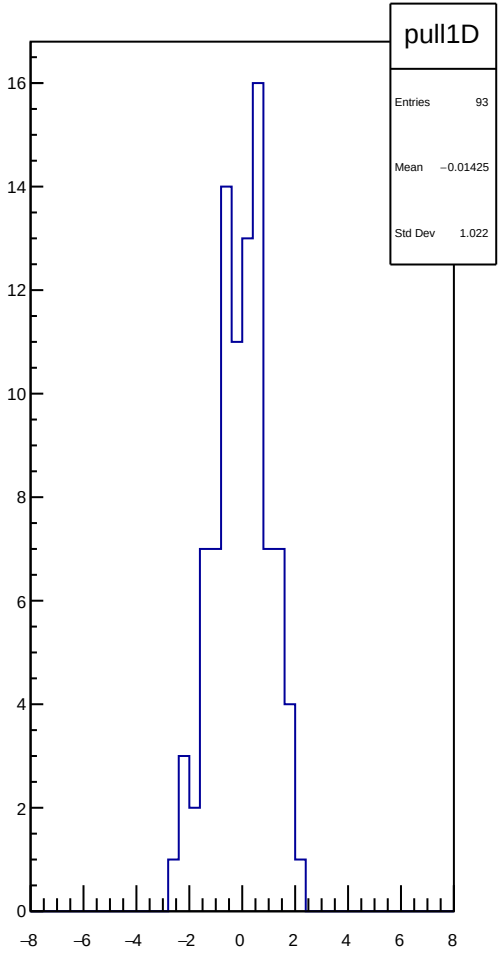

asym_sam_15_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.499e+04 / 92
p0 33.31 ± 0.02458
45
40
35
30
25

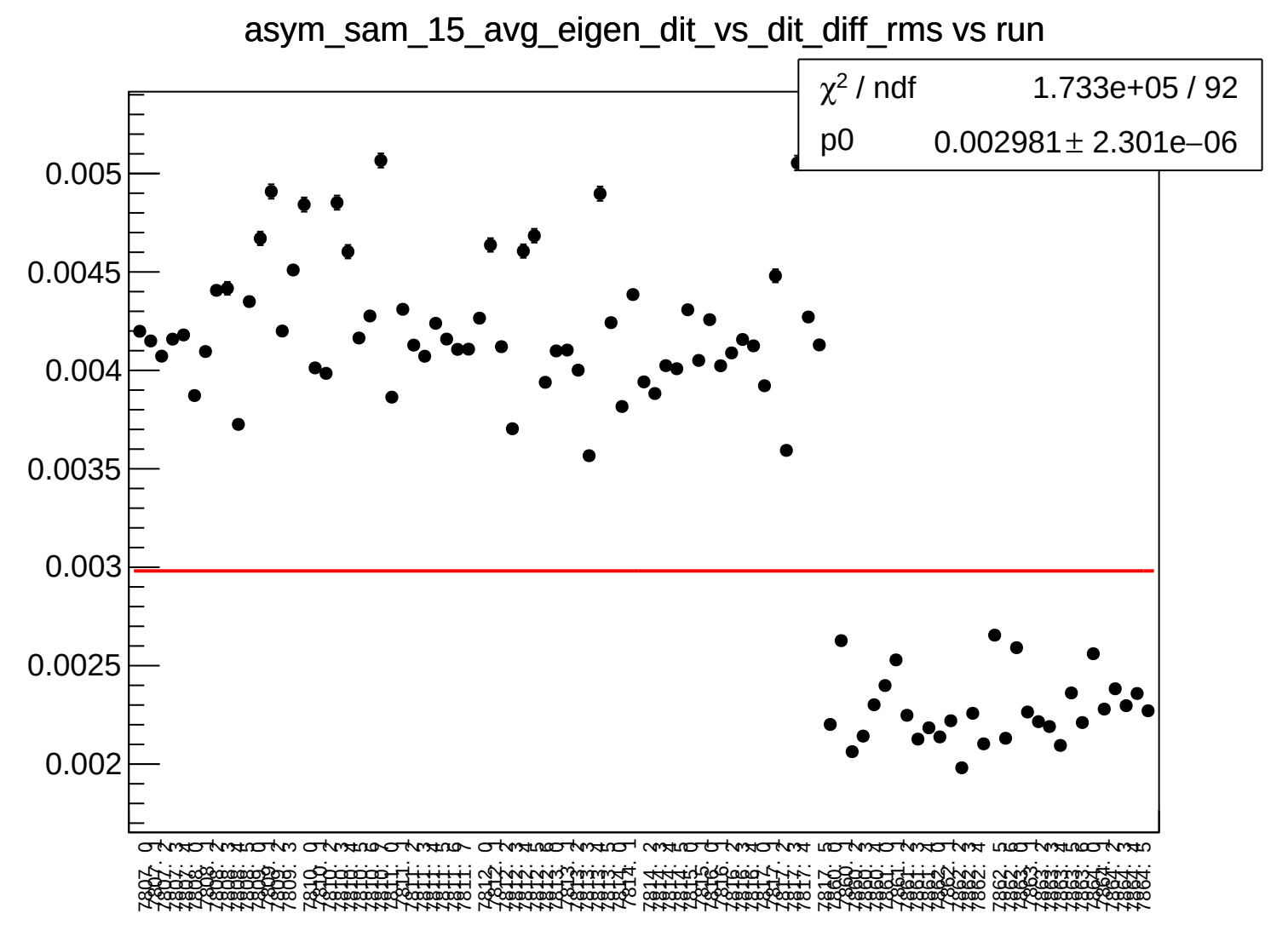

asym_sam_15_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.15 / 92
p0 0.008837 ± 0.03476
pull
Entries 93
Mean −214.7
Std Dev 0

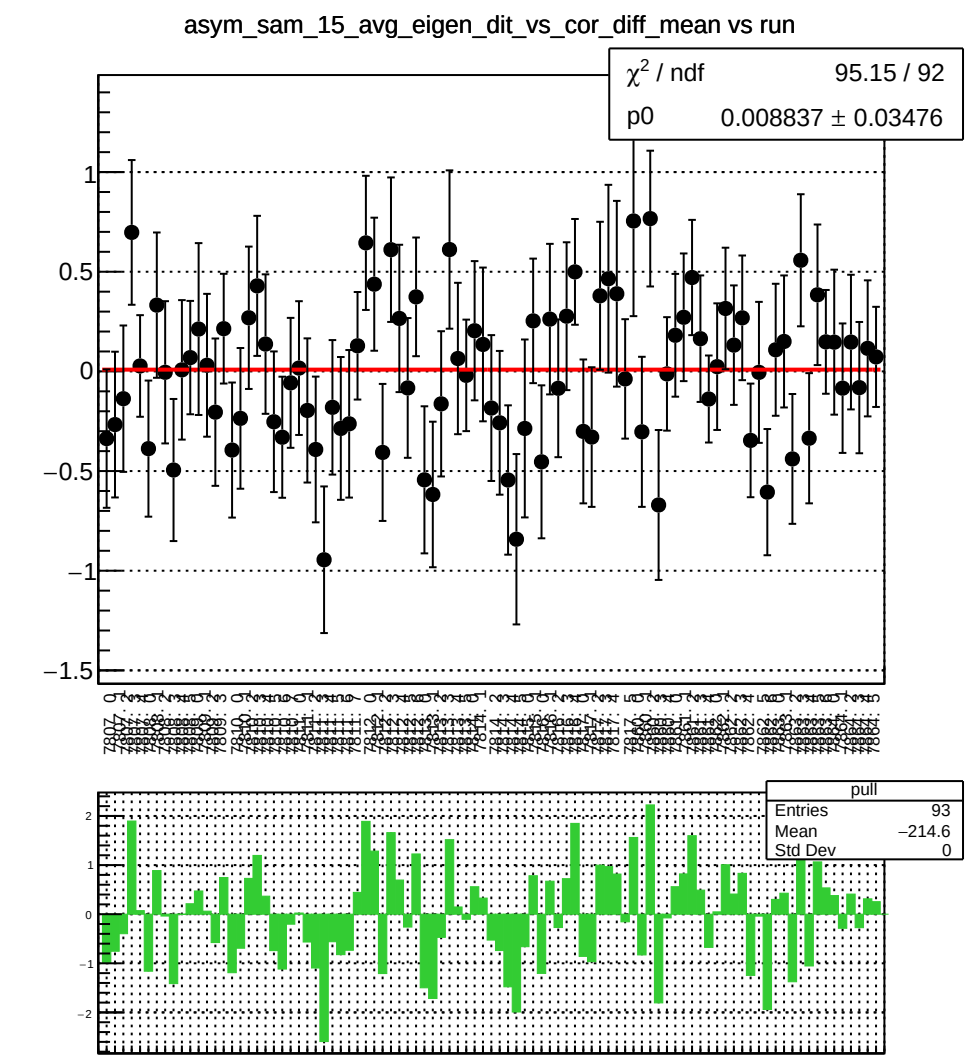

pull1D
Entries 93
Mean −0.01348
Std Dev 1.011

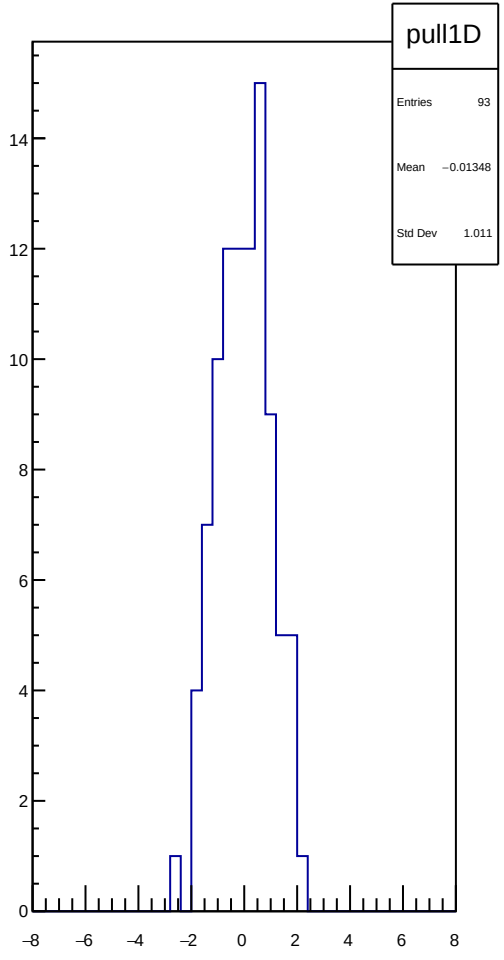

asym_sam_15_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.499e+04 / 92
p0 33.31 ± 0.02458
45
40
35
30
25

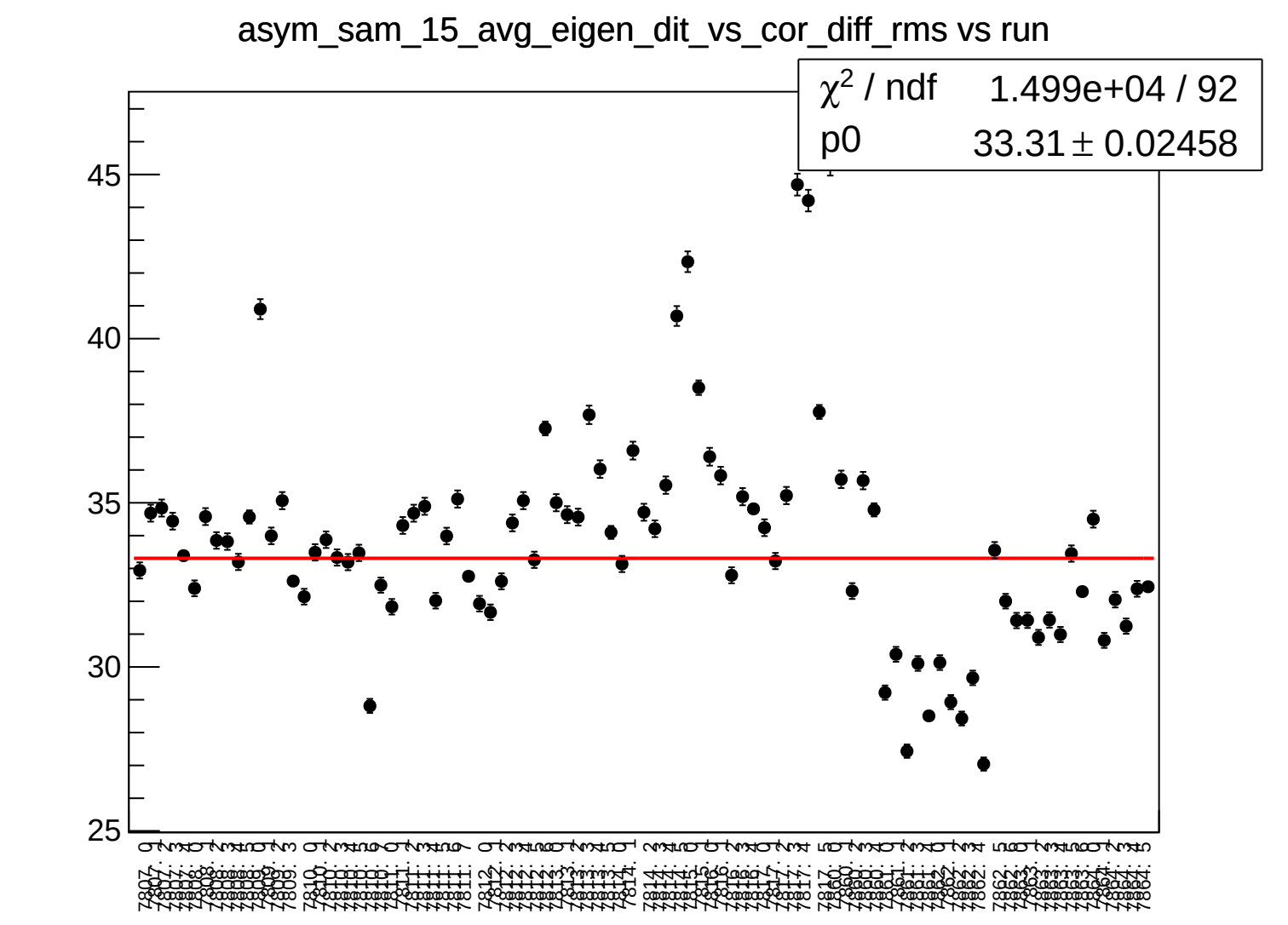

asym_sam_15_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.11 / 92
p0 −5.686e−07 ± 3.254e−06
pull
Entries 93
Mean −3.381
Std Dev 0

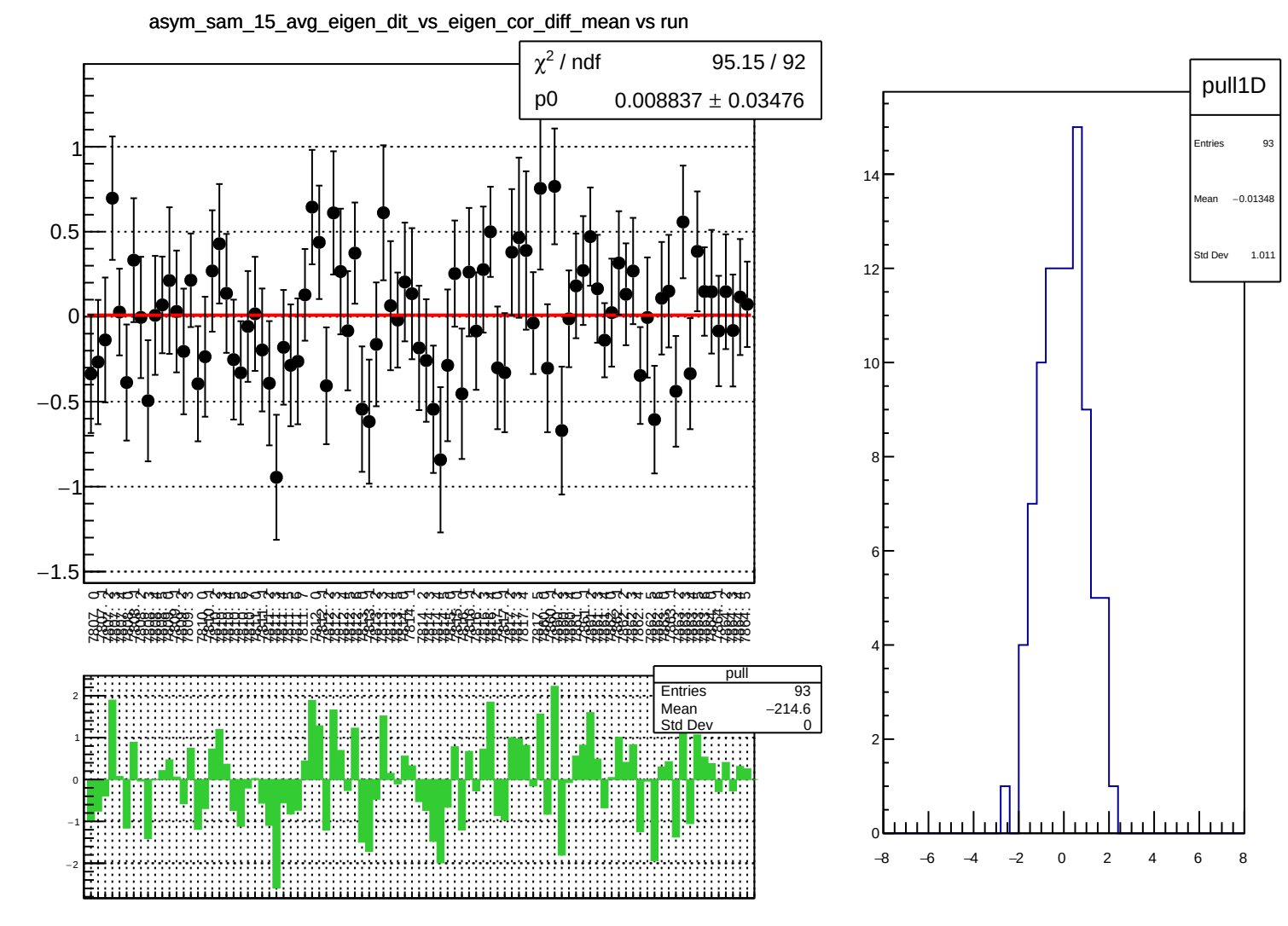

pull1D
Entries 93
Mean −0.01425
Std Dev 1.022

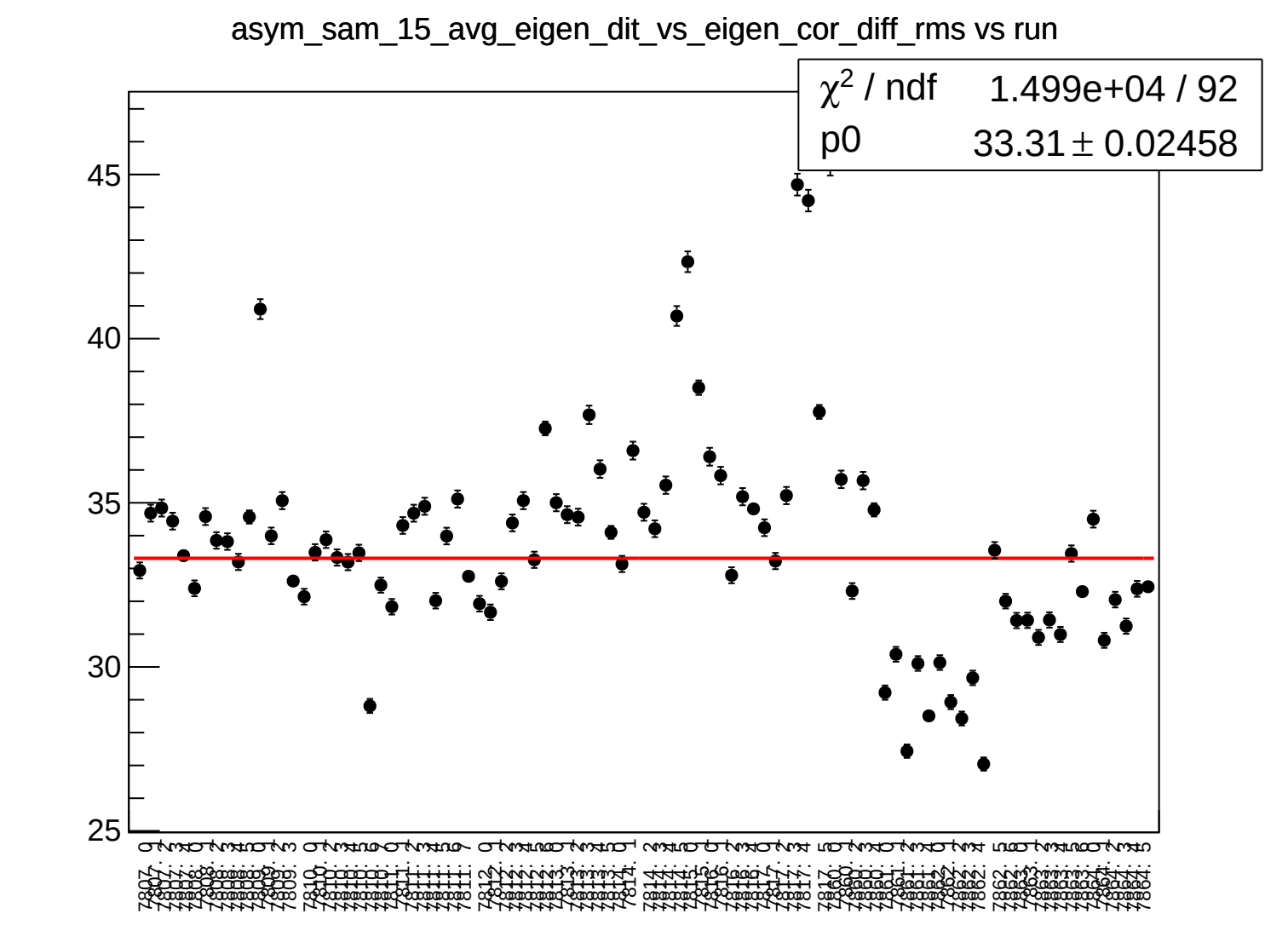

asym_sam_15_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.733e+05 / 92
p0 0.002981 ± 2.301e−06
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002

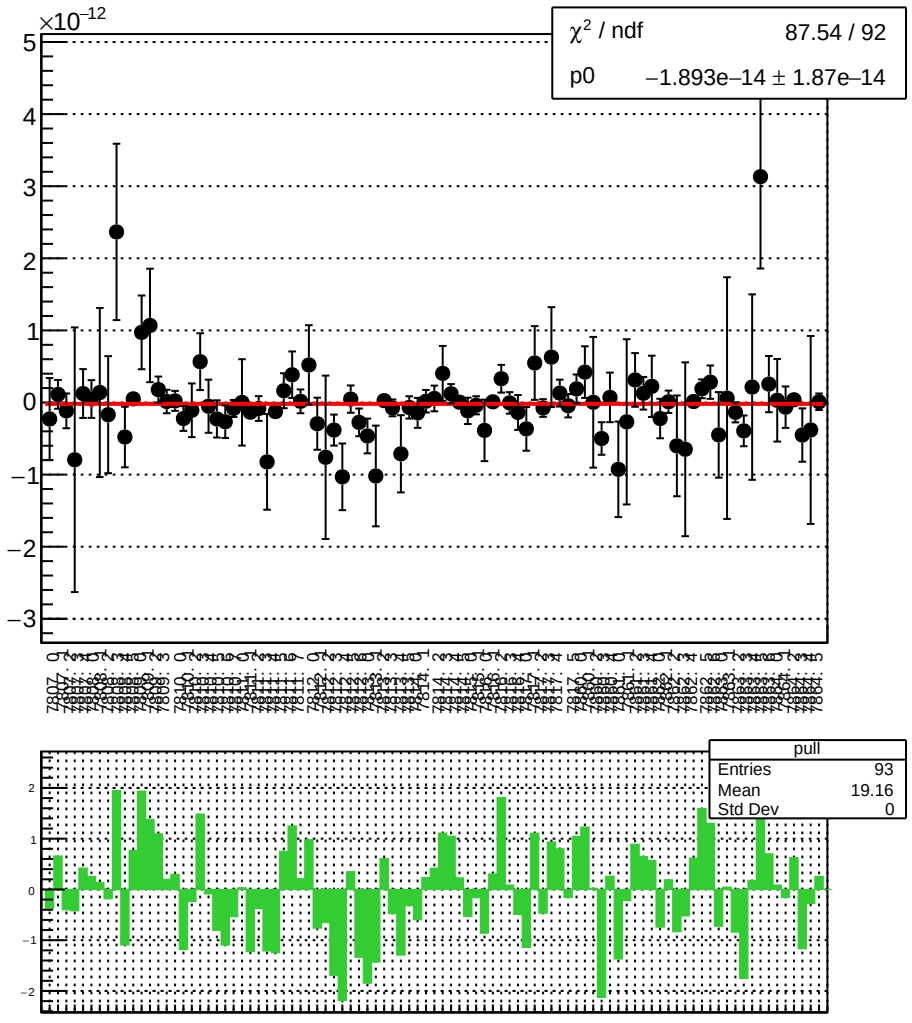

asym_sam_15_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.15 / 92
p0 0.008837 ± 0.03476
pull
Entries 93
Mean −214.6
Std Dev 0

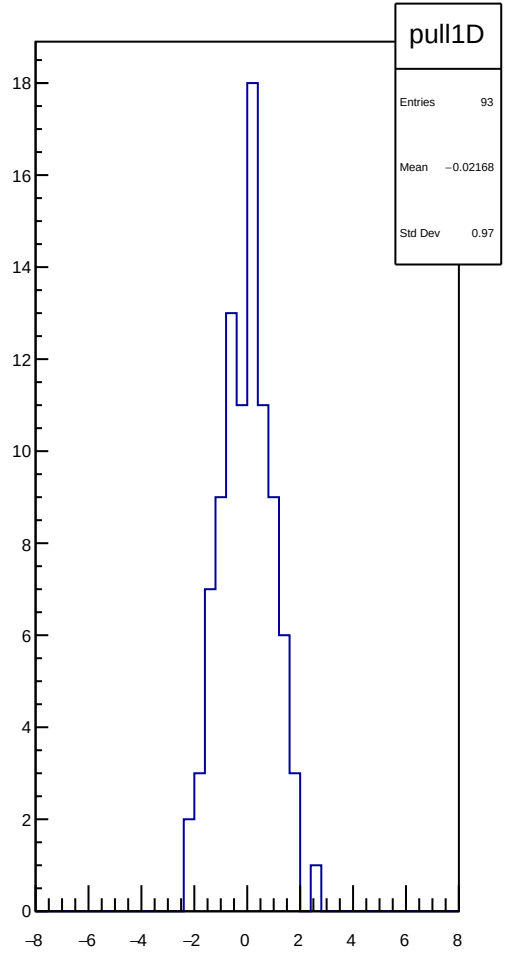

pull1D
Entries 93
Mean −0.01348
Std Dev 1.011

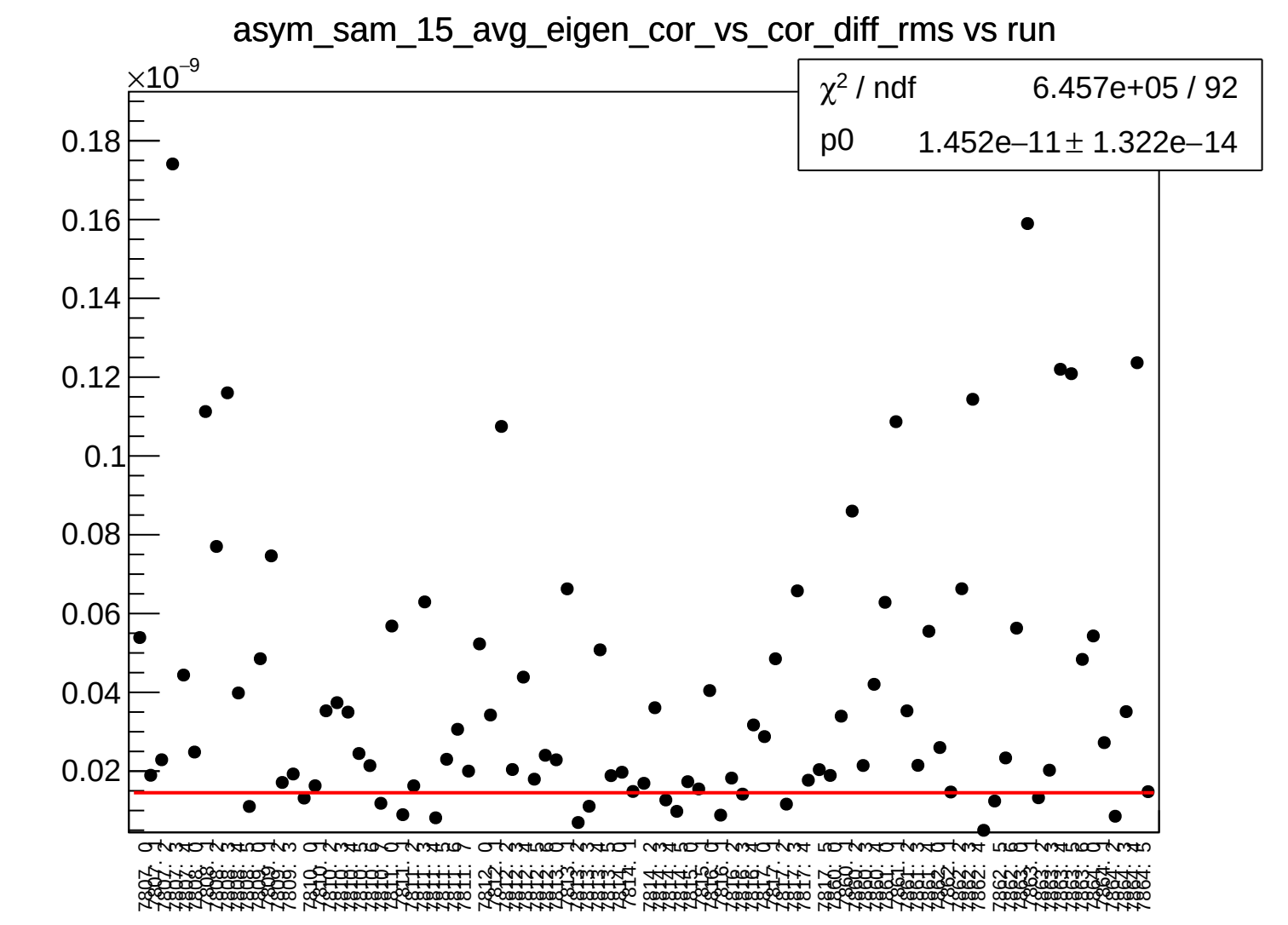

asym_sam_15_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.499e+04 / 92
p0 33.31 ± 0.02458
45
40
35
30
25

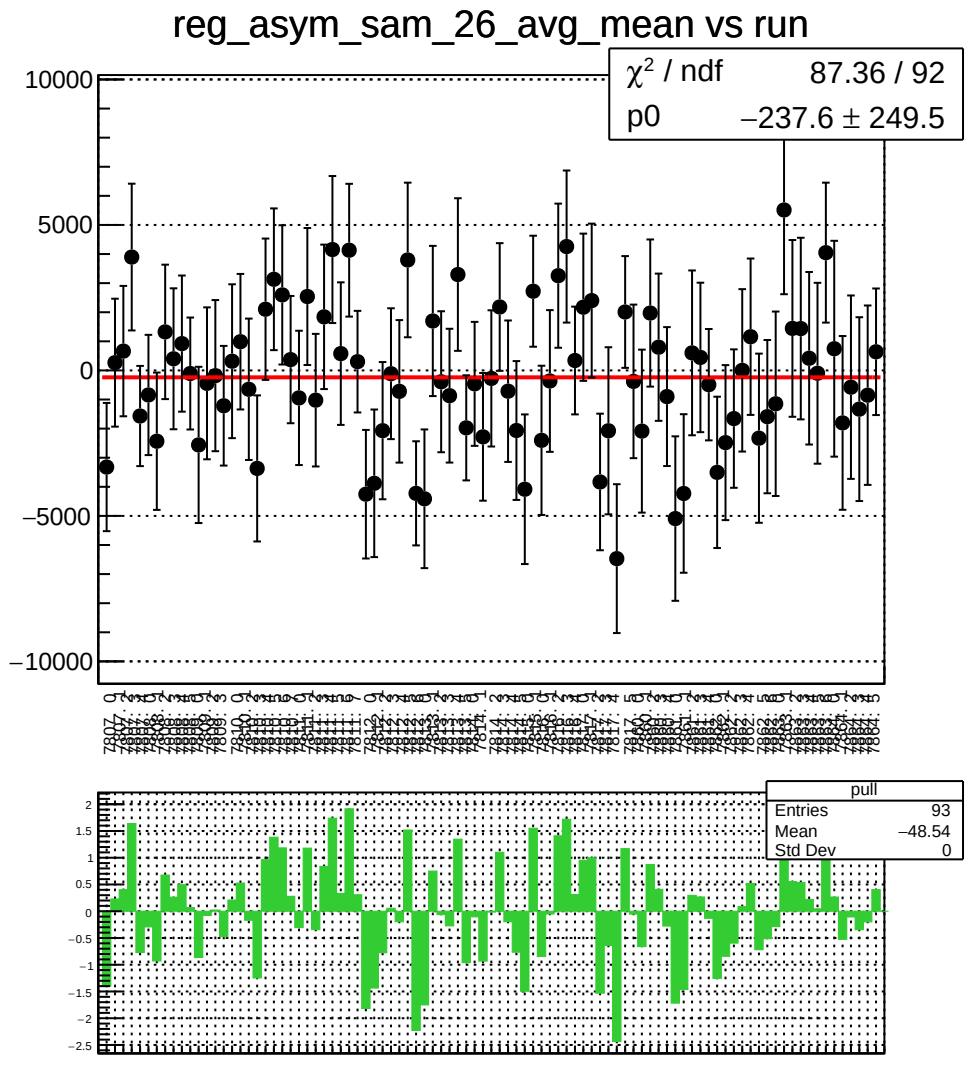

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.15 / 92
p0 0.008837 ± 0.03476
pull
Entries 93
Mean −214.6
Std Dev 0
pull1D
Entries 93
Mean −0.01348
Std Dev 1.011

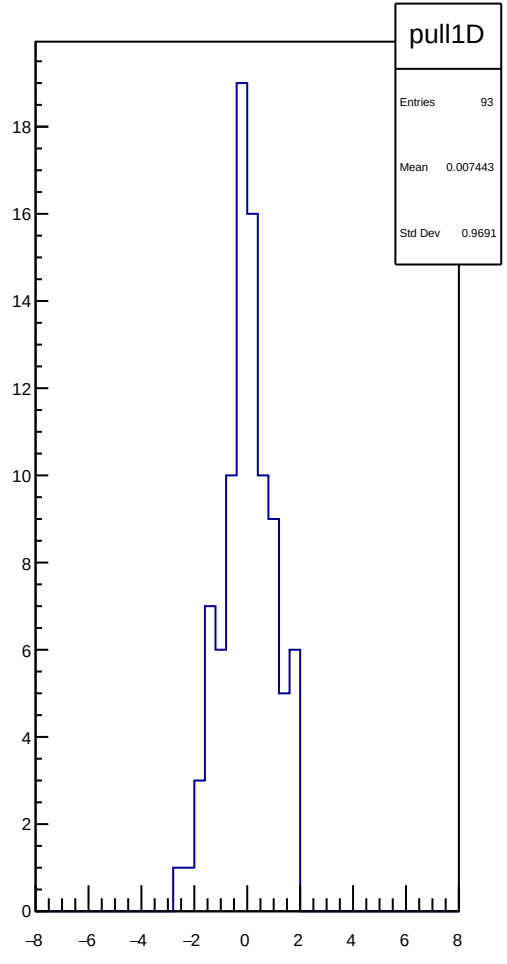

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.499e+04 / 92
p0 33.31 ± 0.02458
45
40
35
30
25

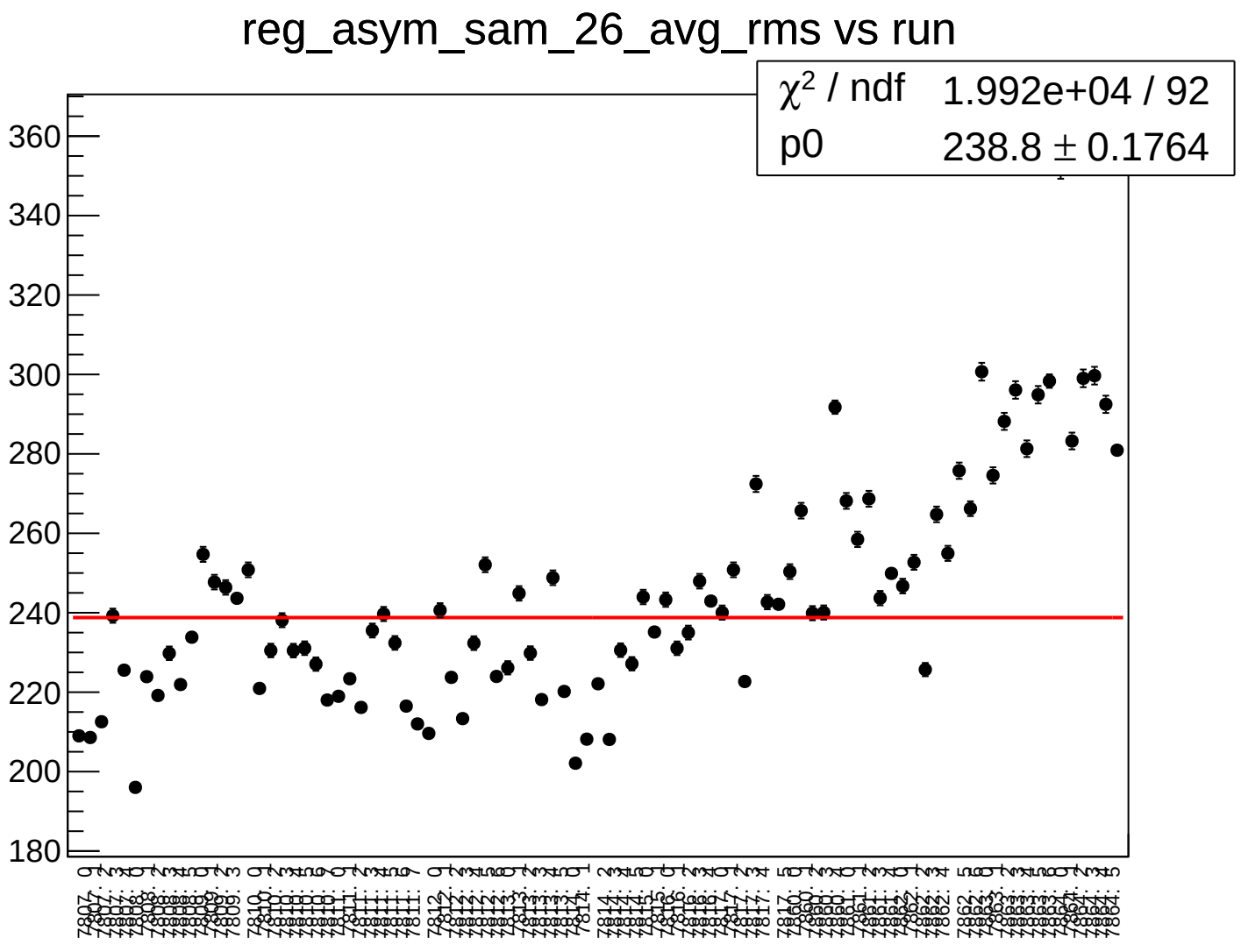

asym_sam_15_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.54 / 92
p0 −1.893e−14 ± 1.87e−14
pull
Entries 93
Mean 19.16
Std Dev 0

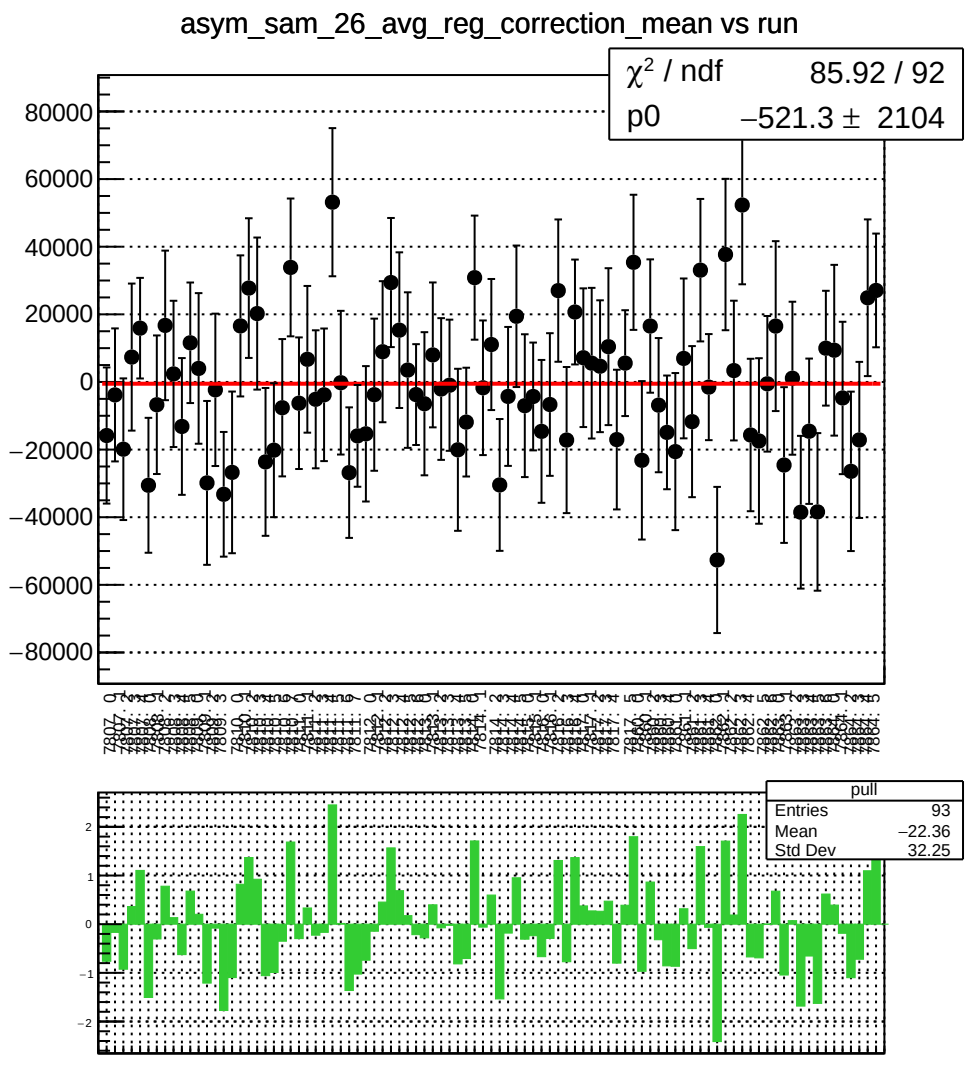

pull1D
Entries 93
Mean −0.02168
Std Dev 0.97

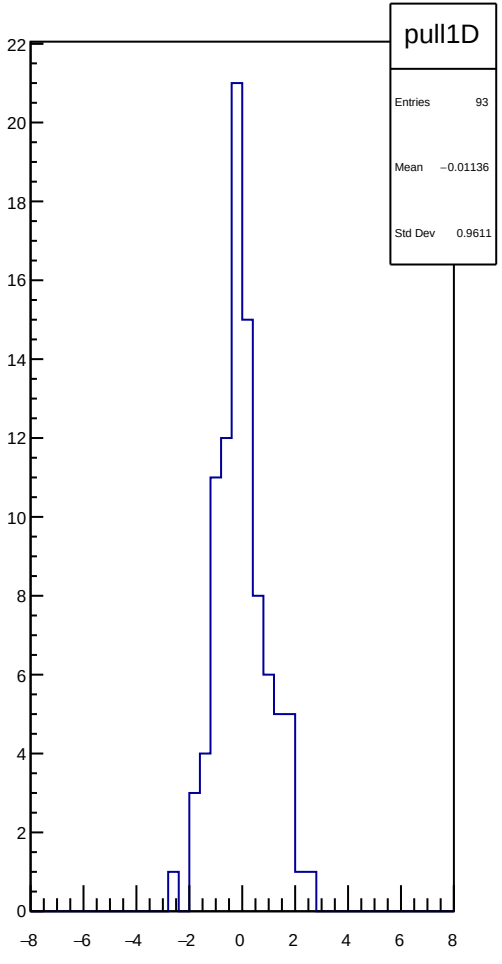

asym_sam_15_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.457e+05 / 92
p0 1.452e−11 ± 1.322e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

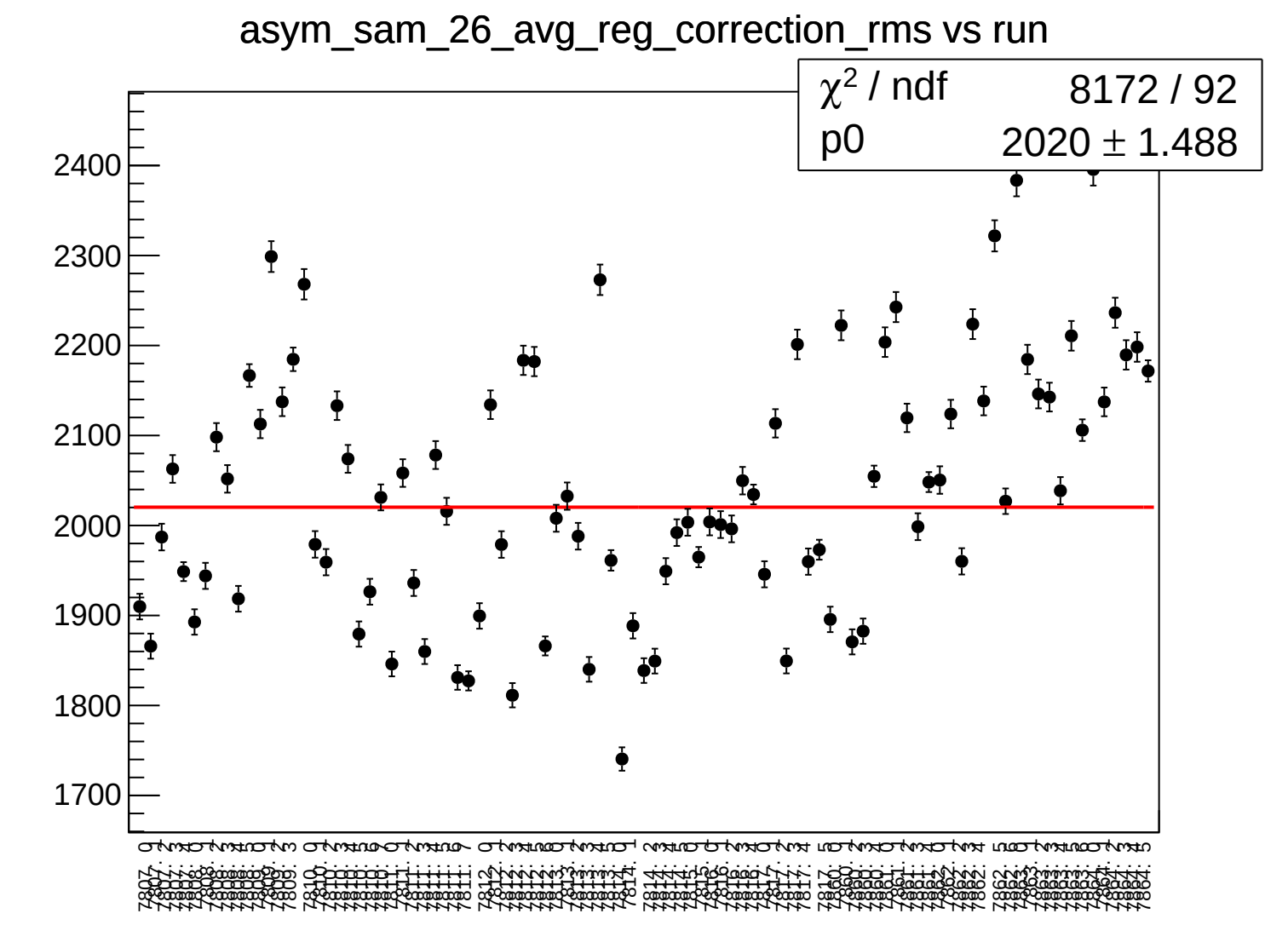

reg_asym_sam_26_avg_mean vs run
χ² / ndf 87.36 / 92
p0 −237.6 ± 249.5
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −48.54
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

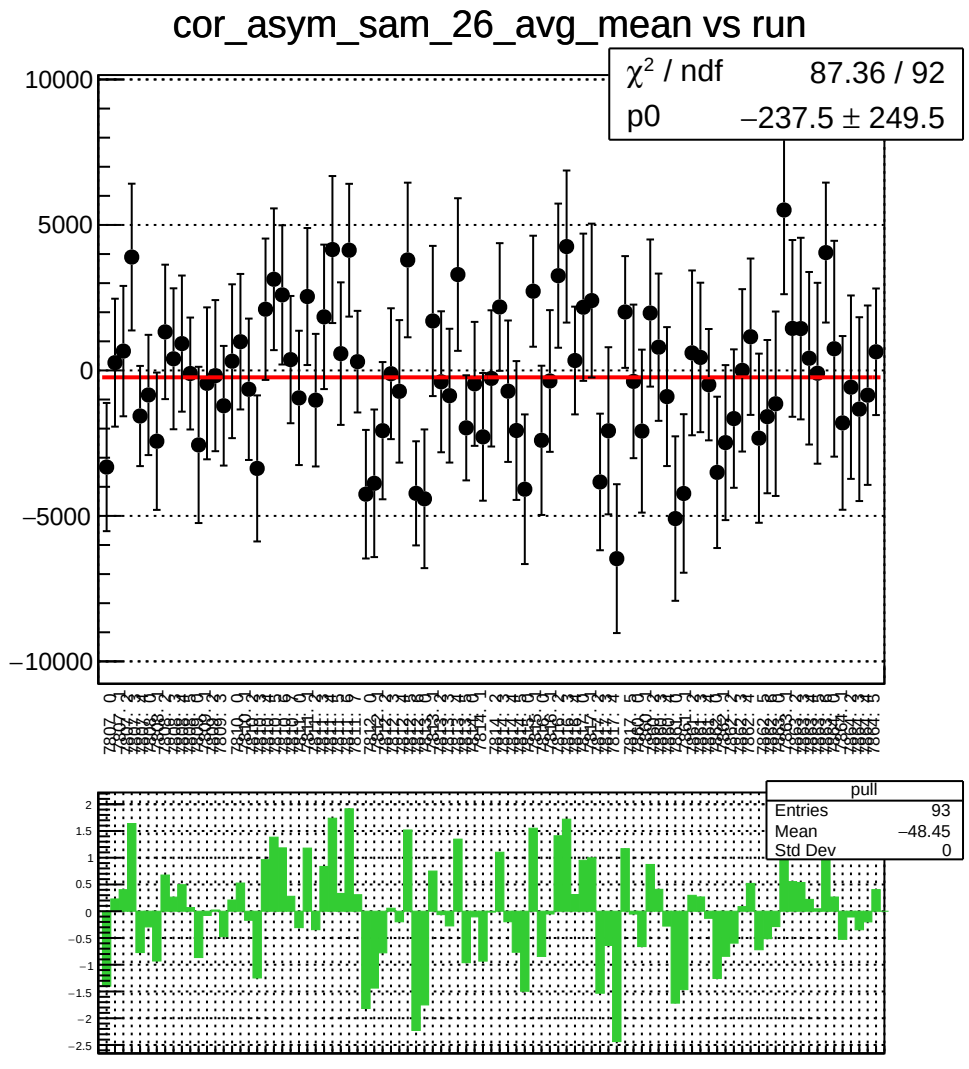

pull1D
Entries 93
Mean 0.007443
Std Dev 0.9691
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

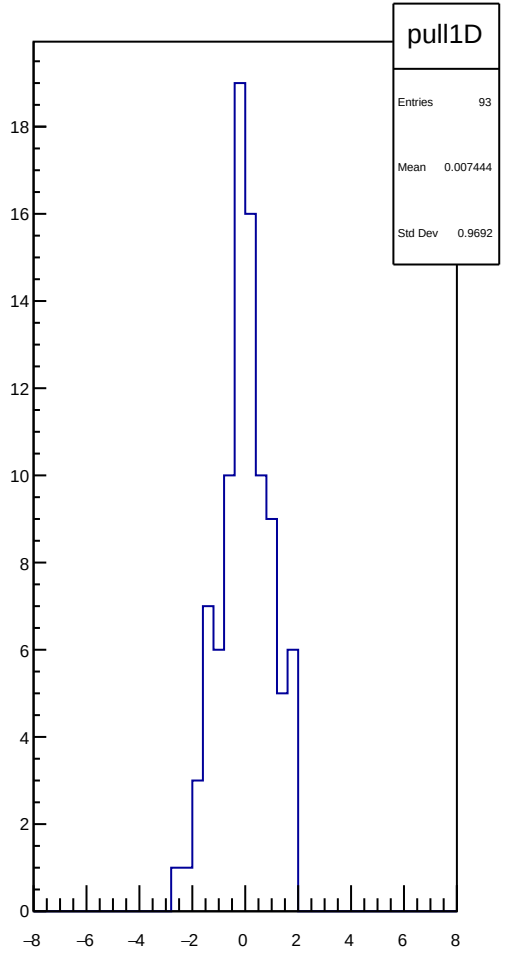

reg_asym_sam_26_avg_rms vs run
χ² / ndf 1.992e+04 / 92
p0 238.8 ± 0.1764
360
340
320
300
280
260
240
220
200
180

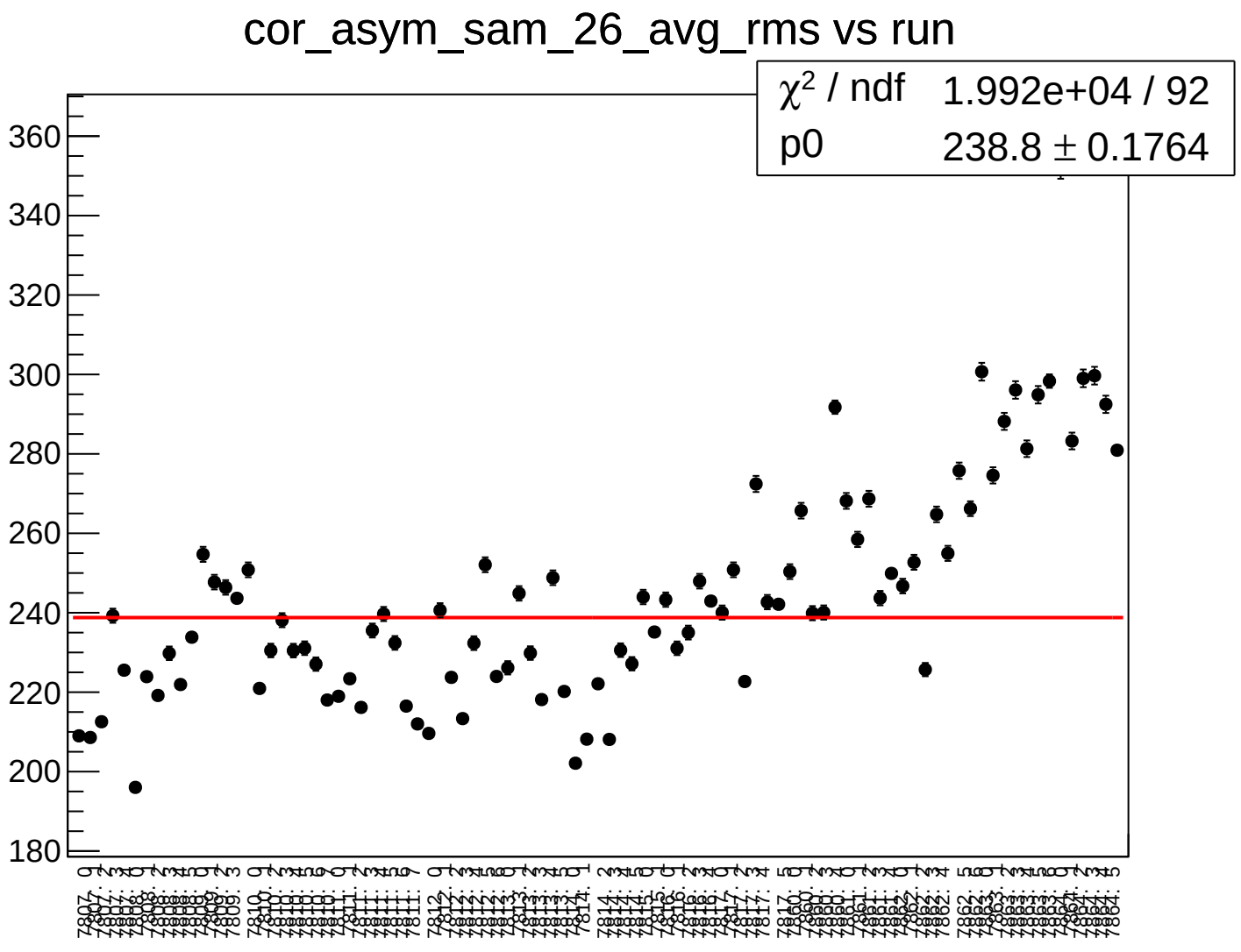

asym_sam_26_avg_reg_correction_mean vs run
χ² / ndf 85.92 / 92
p0 −521.3 ± 2104
pull
Entries 93
Mean −22.36
Std Dev 32.25

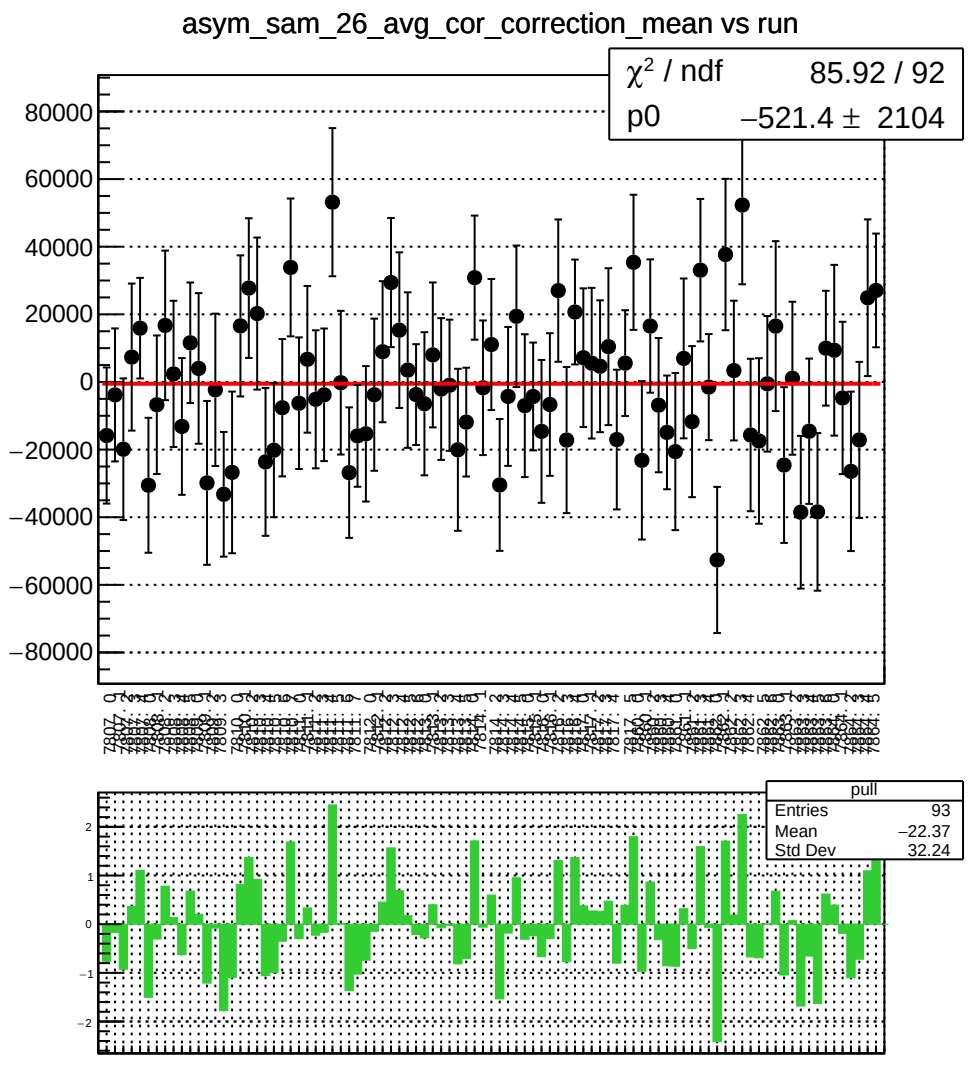

pull1D
Entries 93
Mean −0.01136
Std Dev 0.9611

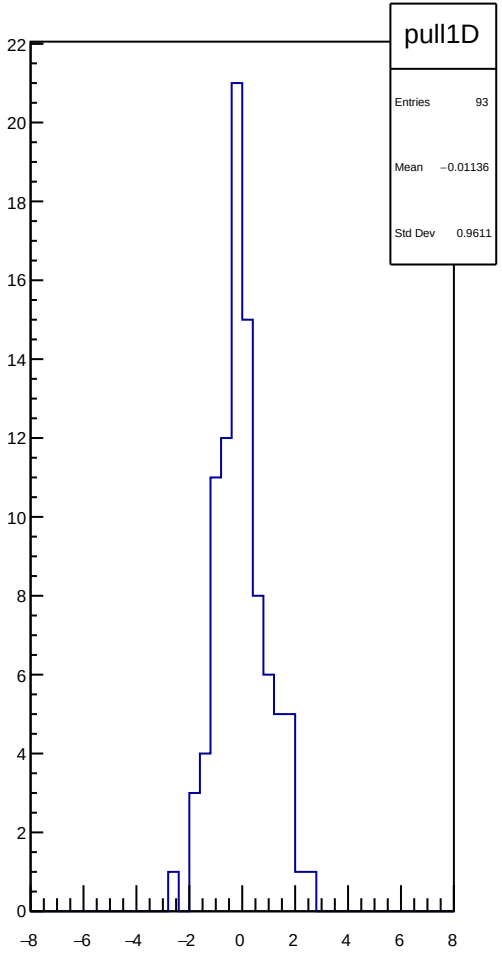

asym_sam_26_avg_reg_correction_rms vs run
χ² / ndf 8172 / 92
p0 2020 ± 1.488
2400
2300
2200
2100
2000
1900
1800
1700

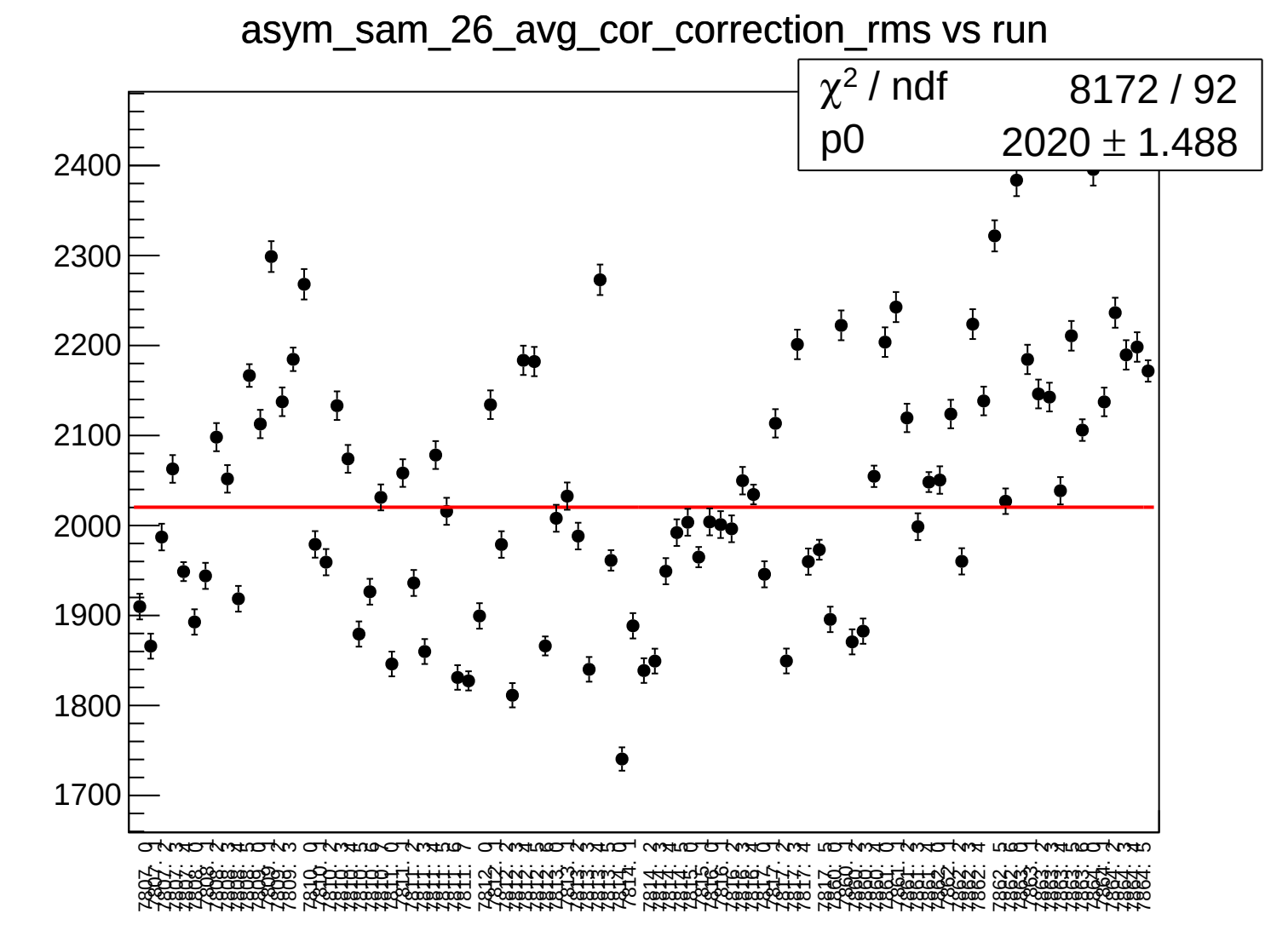

cor_asym_sam_26_avg_mean vs run
χ² / ndf 87.36 / 92
p0 −237.5 ± 249.5
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −48.45
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

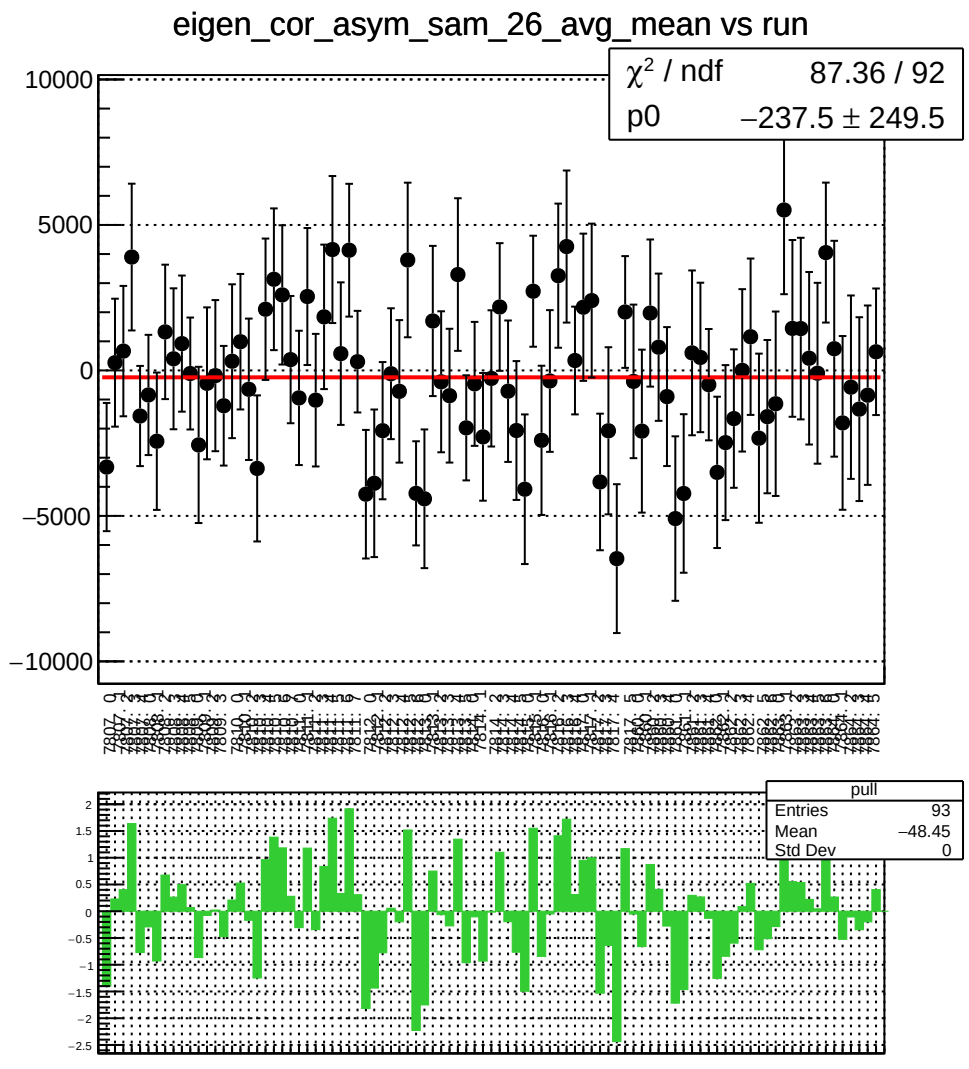

pull1D
Entries 93
Mean 0.007444
Std Dev 0.9692
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

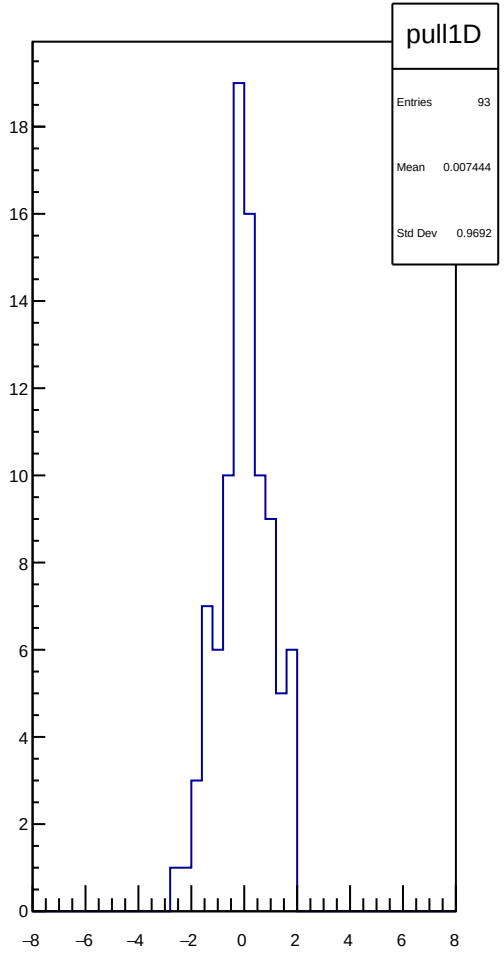

cor_asym_sam_26_avg_rms vs run
χ² / ndf 1.992e+04 / 92
p0 238.8 ± 0.1764
360
340
320
300
280
260
240
220
200
180

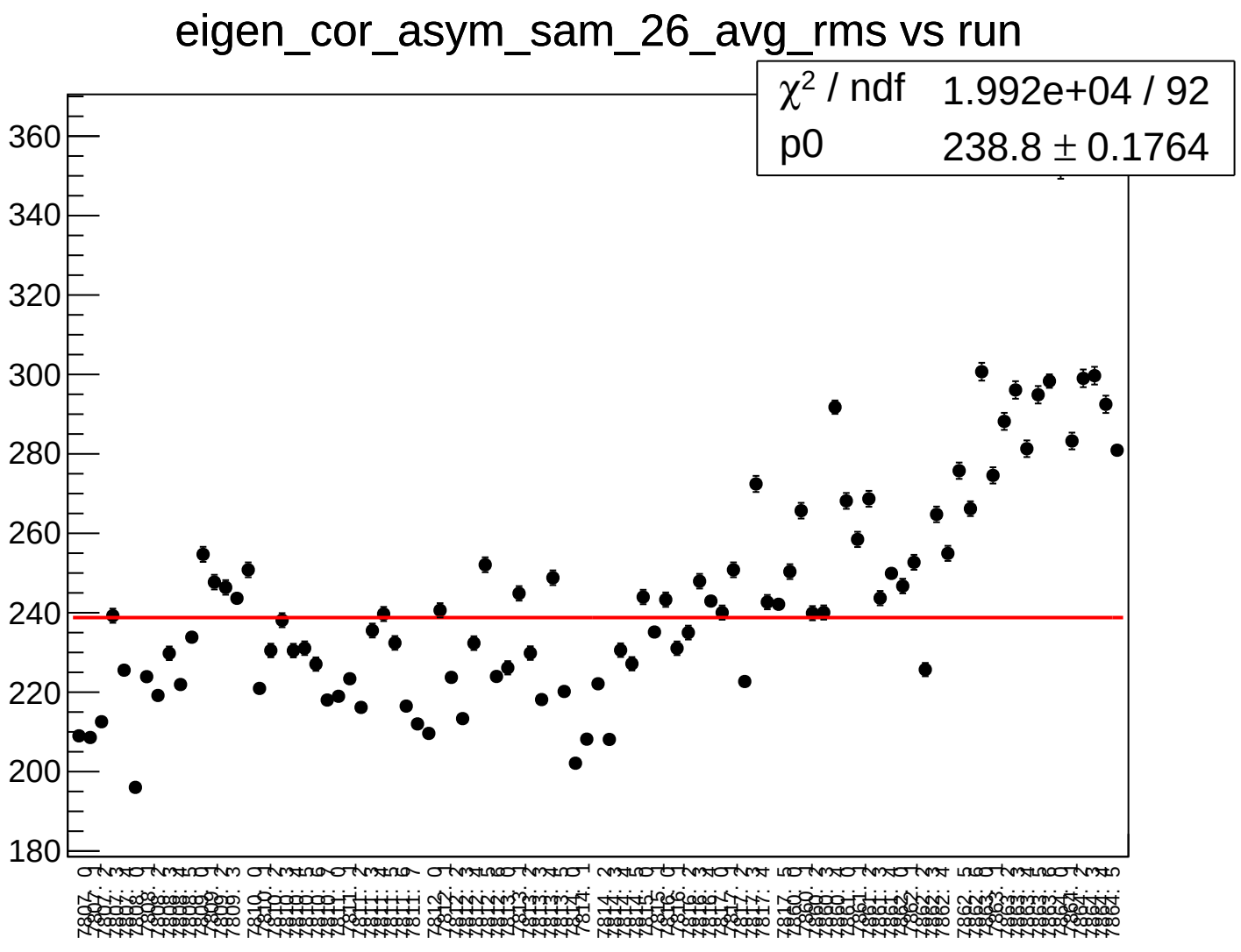

asym_sam_26_avg_cor_correction_mean vs run
χ² / ndf 85.92 / 92
p0 −521.4 ± 2104
pull
Entries 93
Mean −22.37
Std Dev 32.24

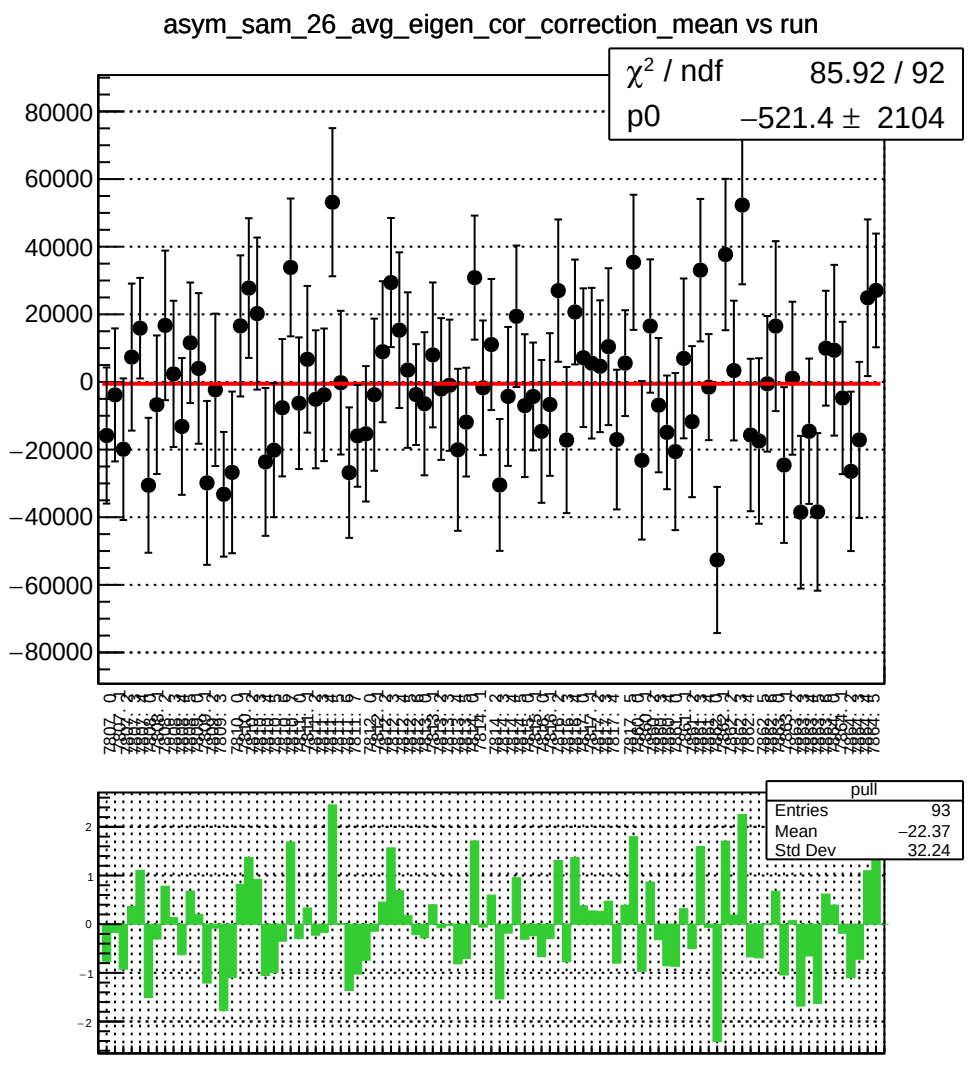

pull1D
Entries 93
Mean −0.01136
Std Dev 0.9611

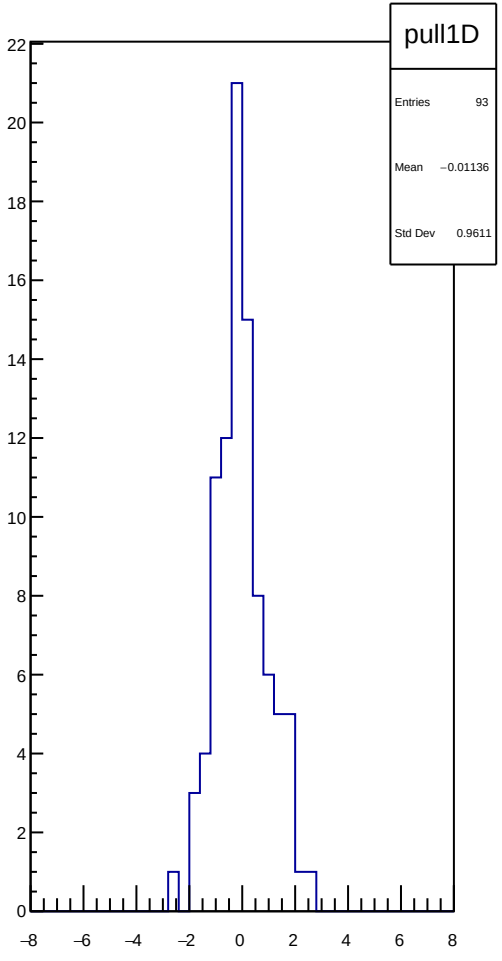

asym_sam_26_avg_cor_correction_rms vs run
χ² / ndf 8172 / 92
p0 2020 ± 1.488
2400
2300
2200
2100
2000
1900
1800
1700

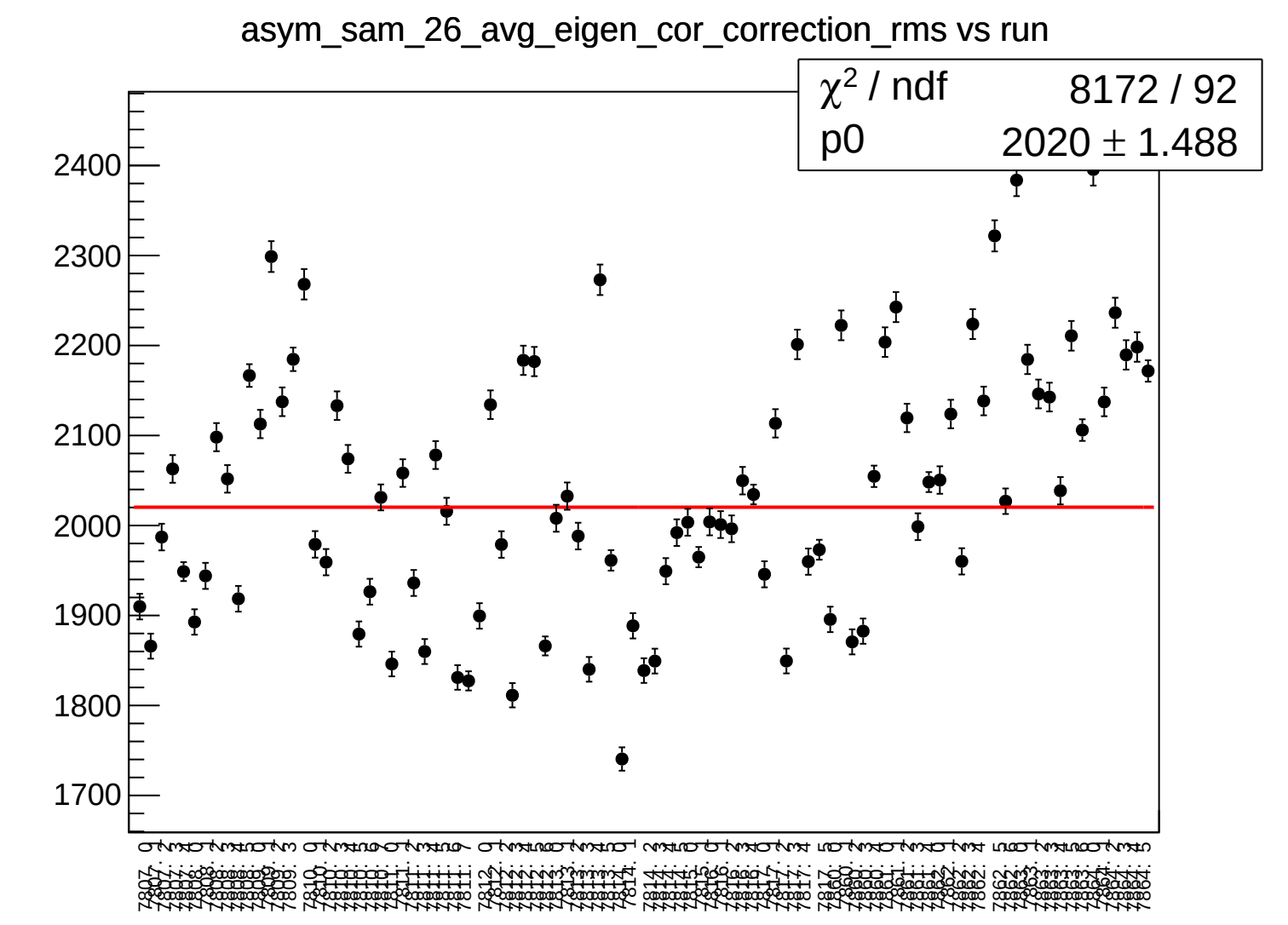

eigen_cor_asym_sam_26_avg_mean vs run
χ² / ndf 87.36 / 92
p0 −237.5 ± 249.5
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −48.45
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

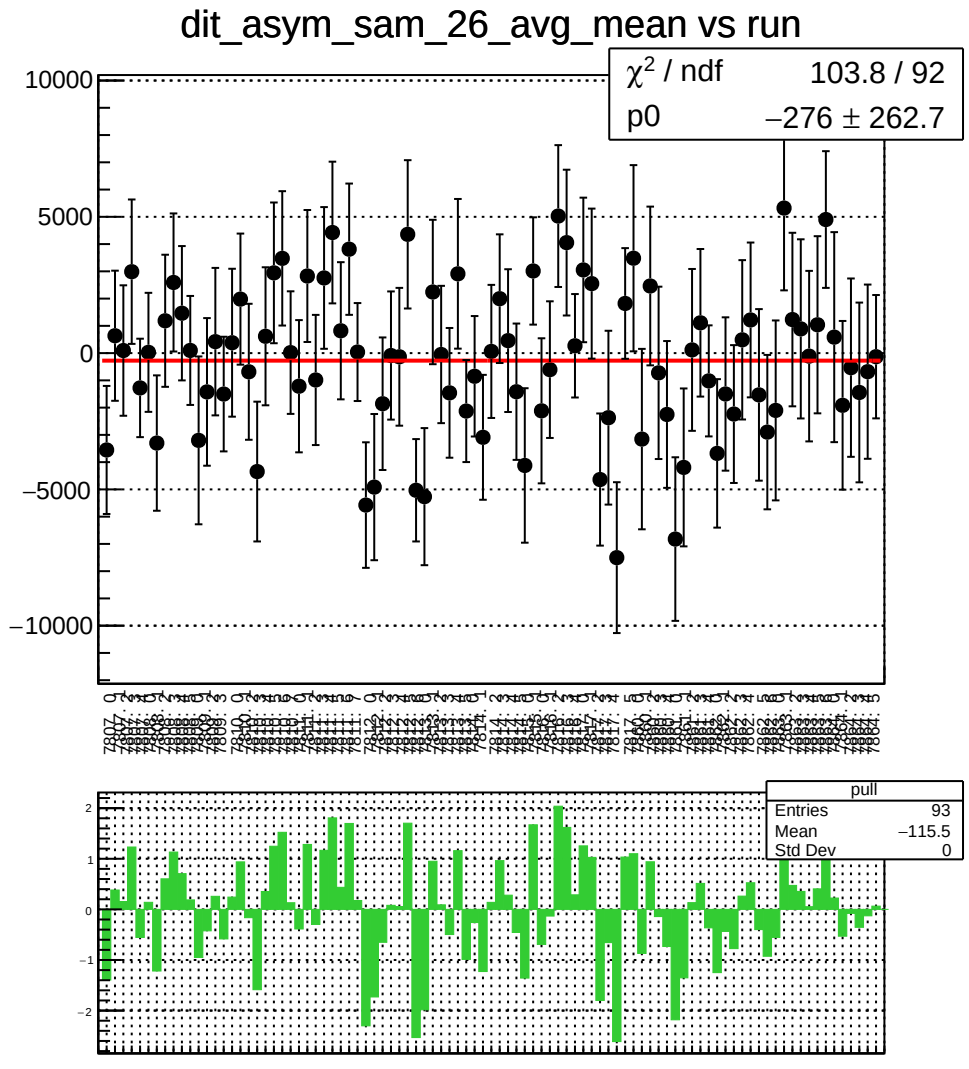

pull1D
Entries 93
Mean 0.007444
Std Dev 0.9692
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

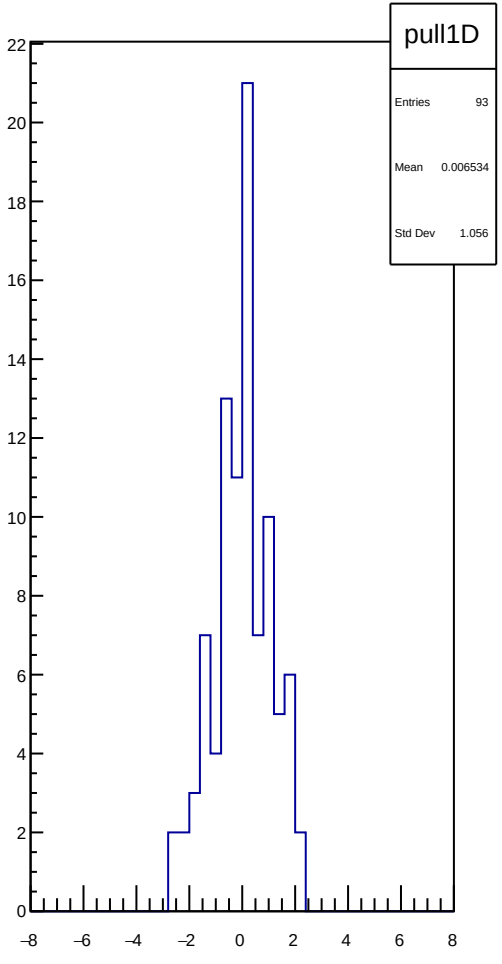

eigen_cor_asym_sam_26_avg_rms vs run
χ² / ndf 1.992e+04 / 92
p0 238.8 ± 0.1764
360
340
320
300
280
260
240
220
200
180

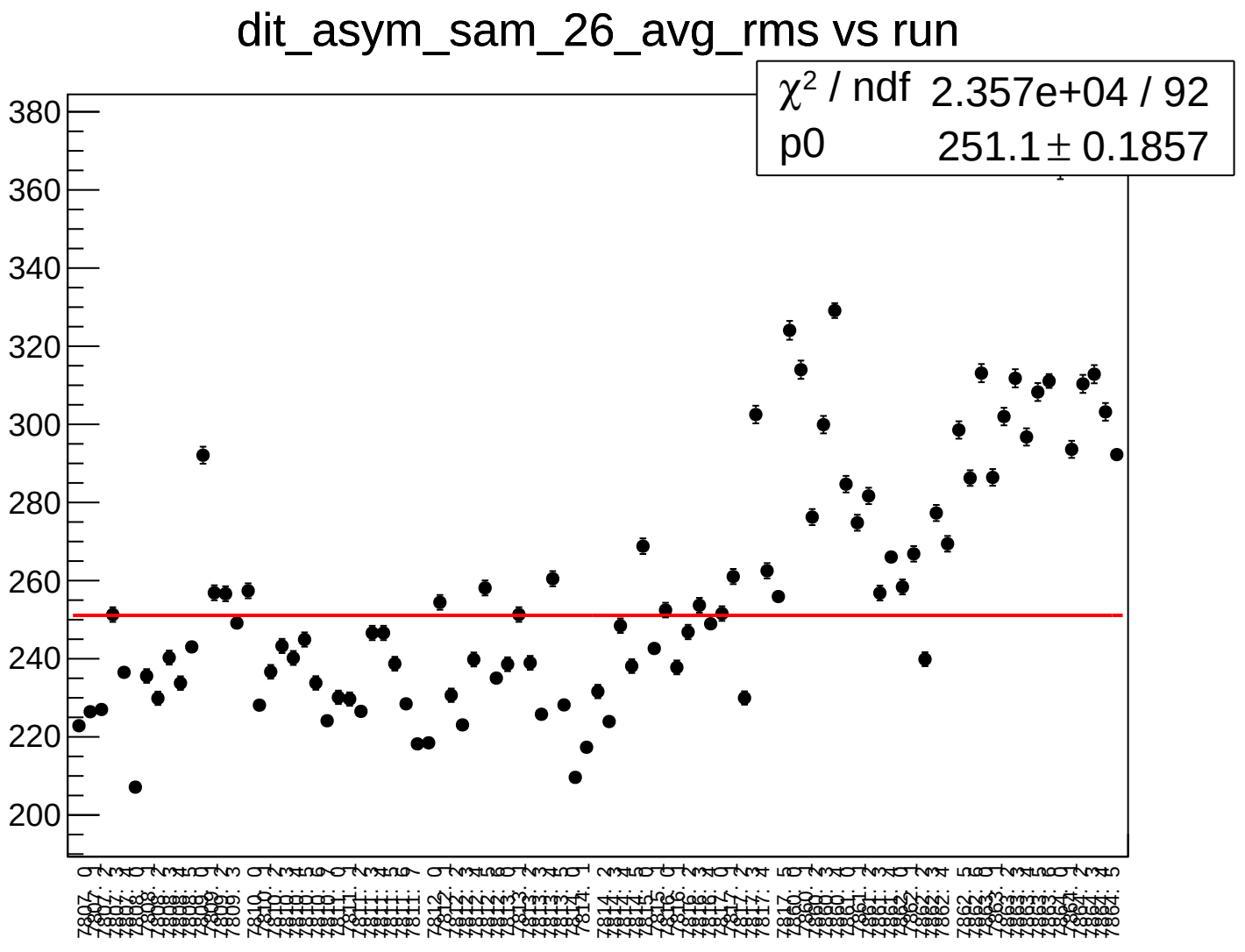

asym_sam_26_avg_eigen_cor_correction_mean vs run
χ² / ndf 85.92 / 92
p0 −521.4 ± 2104
pull
Entries 93
Mean −22.37
Std Dev 32.24

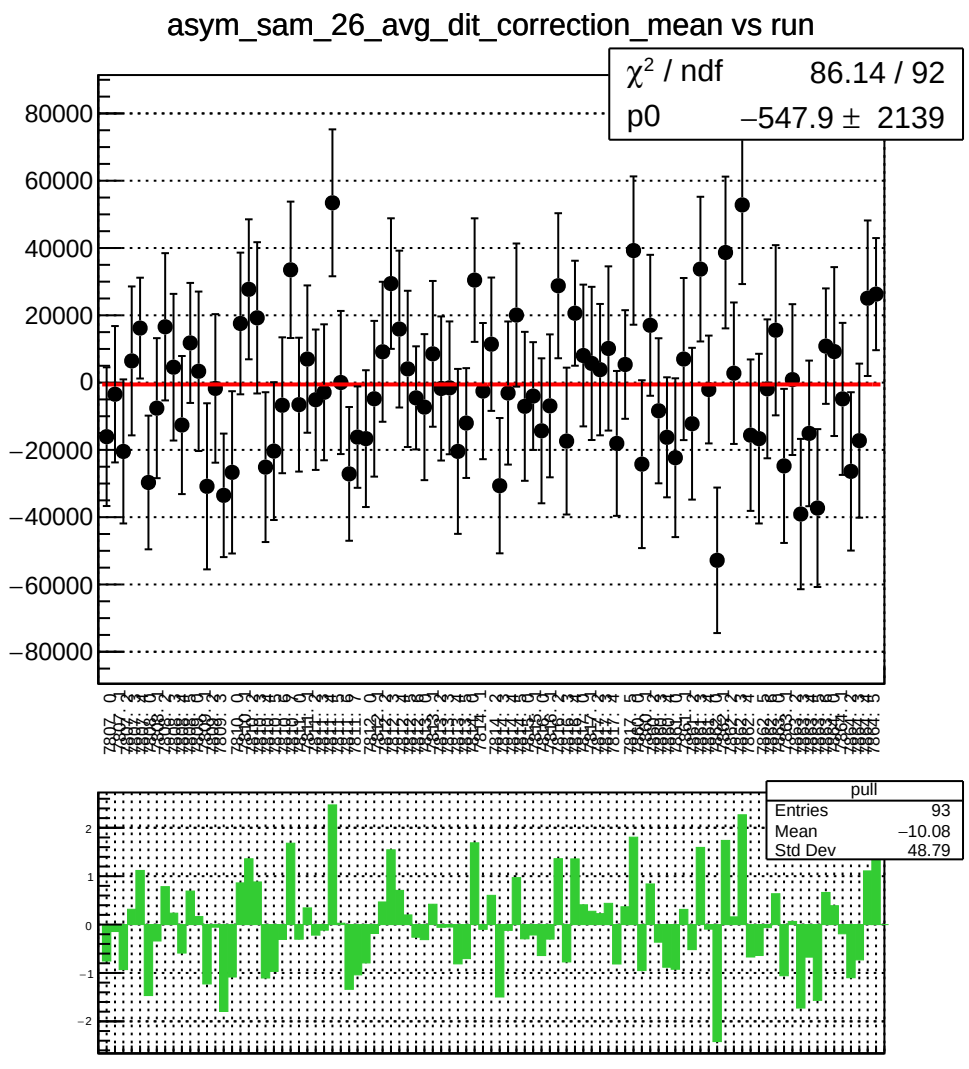

pull1D
Entries 93
Mean −0.01136
Std Dev 0.9611

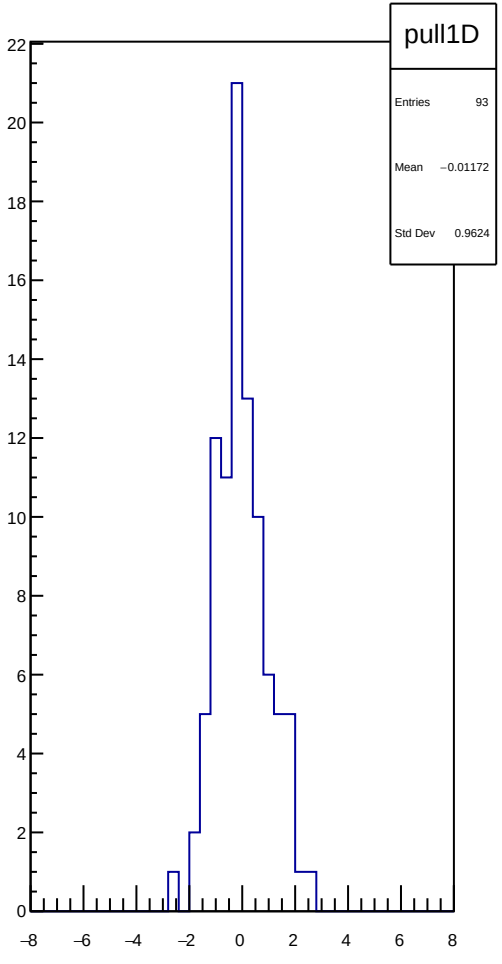

asym_sam_26_avg_eigen_cor_correction_rms vs run
χ² / ndf 8172 / 92
p0 2020 ± 1.488
2400
2300
2200
2100
2000
1900
1800
1700

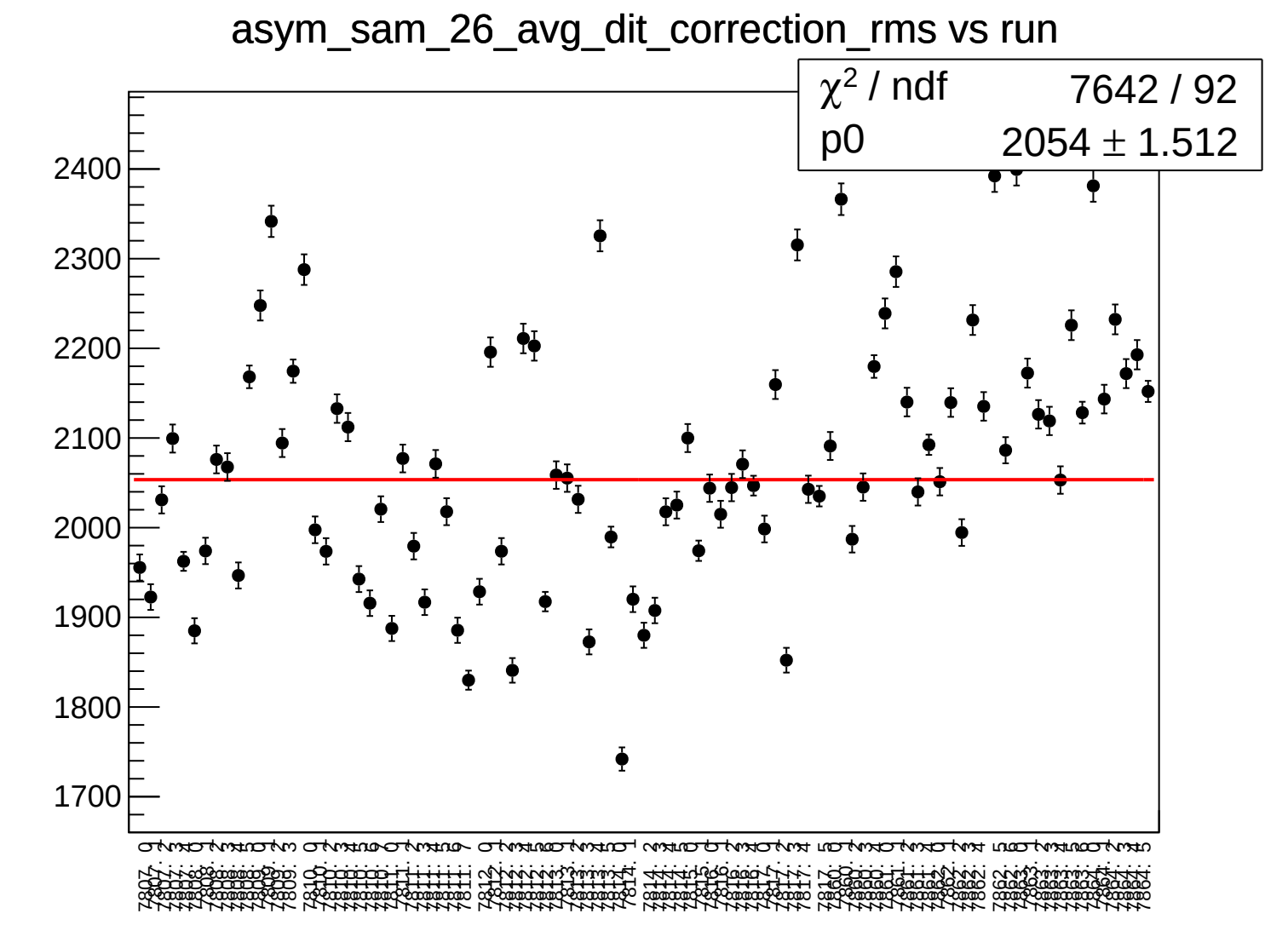

dit_asym_sam_26_avg_mean vs run
χ² / ndf 103.8 / 92
p0 −276 ± 262.7
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −115.5
Std Dev 0
2
1
0
−1
−2

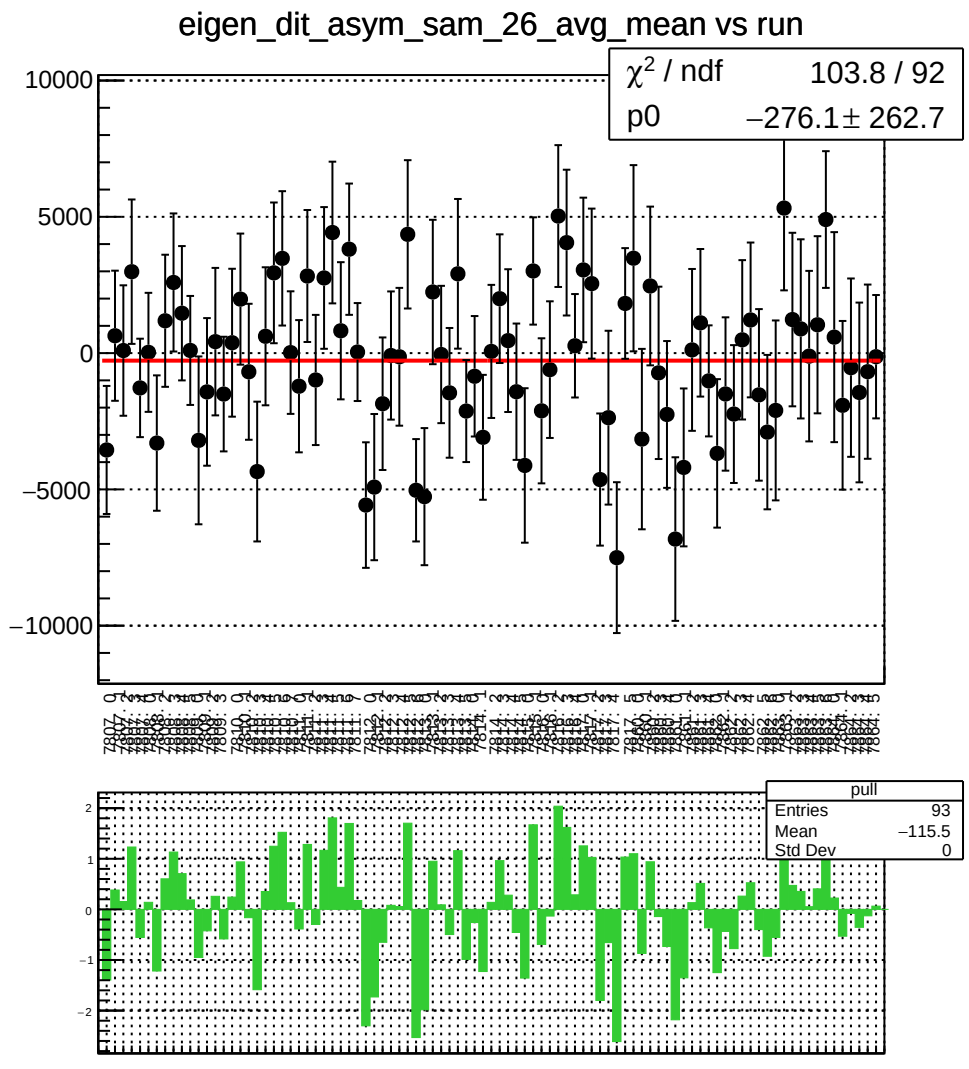

pull1D
Entries 93
Mean 0.006534
Std Dev 1.056
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

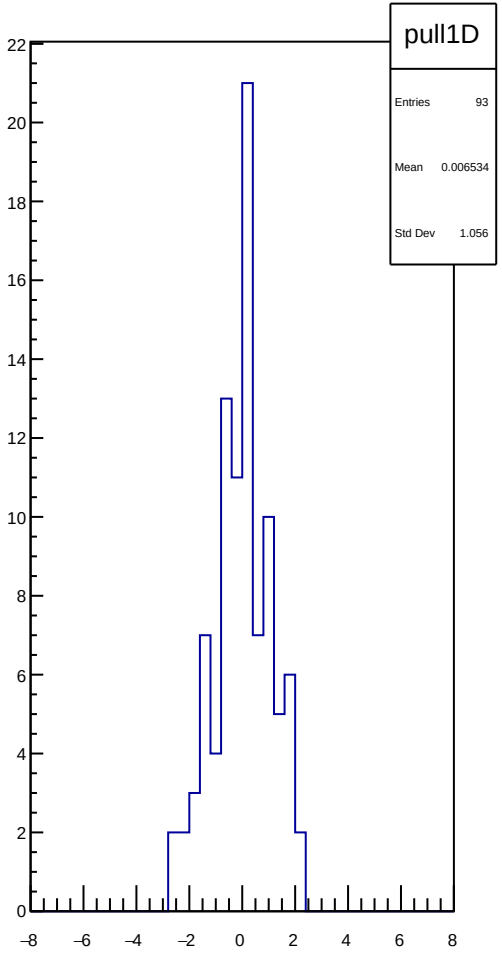

dit_asym_sam_26_avg_rms vs run
χ² / ndf 2.357e+04 / 92
p0 251.1 ± 0.1857
380
360
340
320
300
280
260
240
220
200

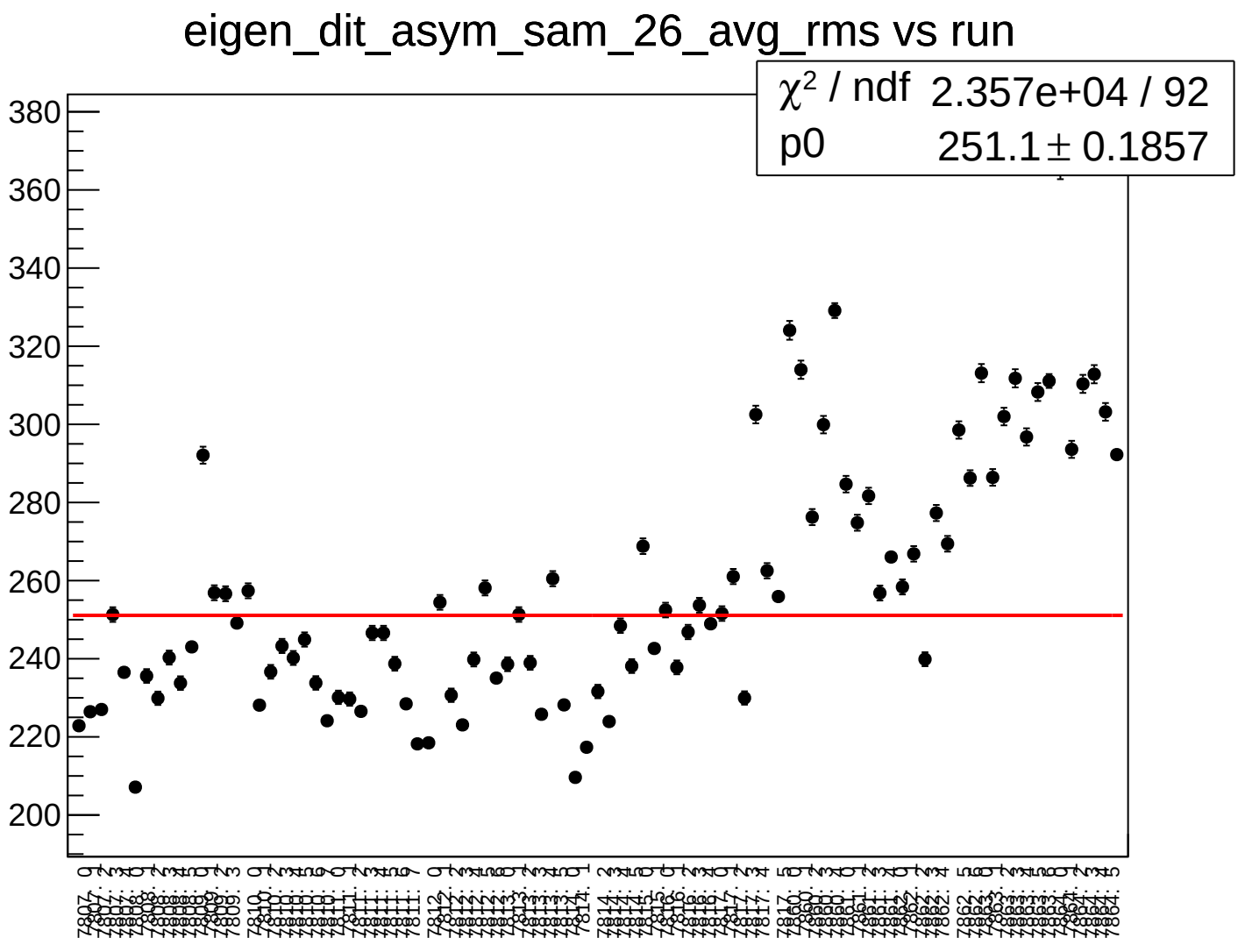

asym_sam_26_avg_dit_correction_mean vs run
χ² / ndf 86.14 / 92
p0 −547.9 ± 2139
pull
Entries 93
Mean −10.08
Std Dev 48.79

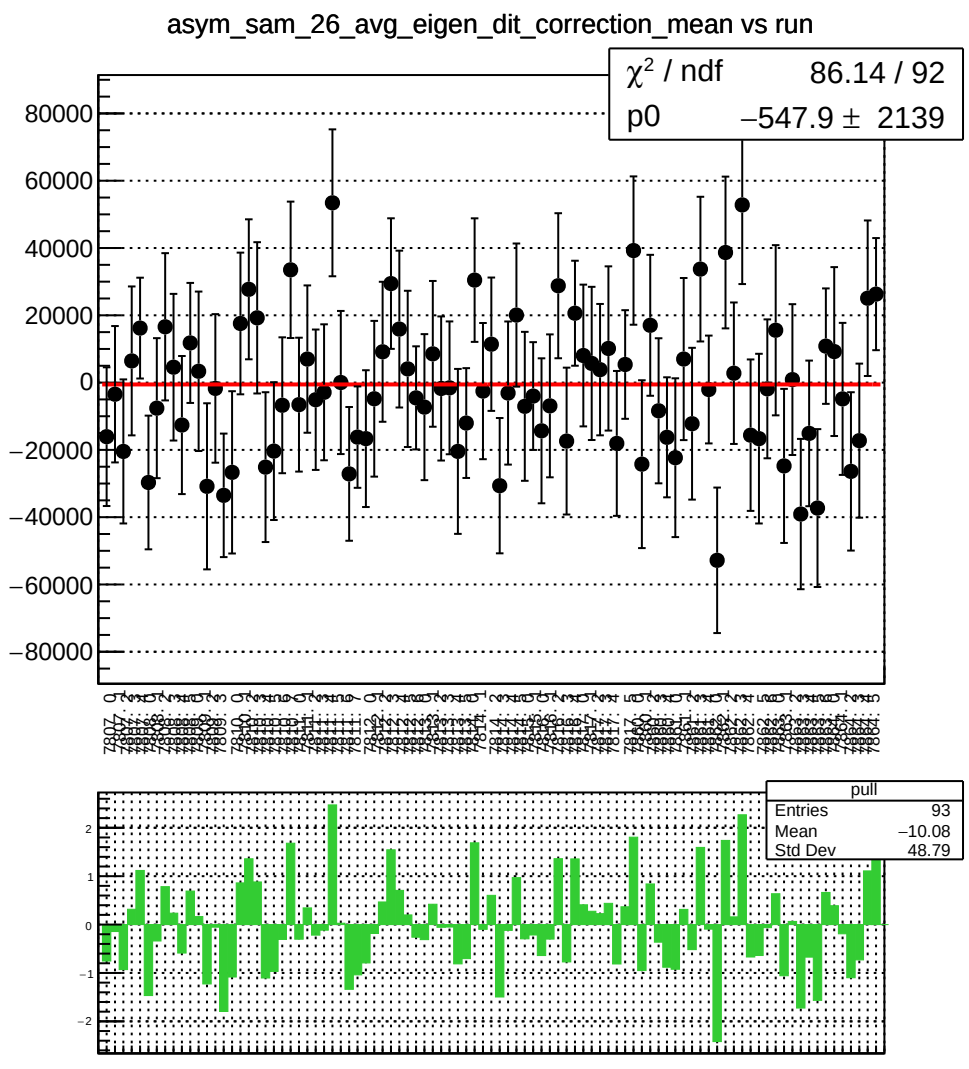

pull1D
Entries 93
Mean −0.01172
Std Dev 0.9624

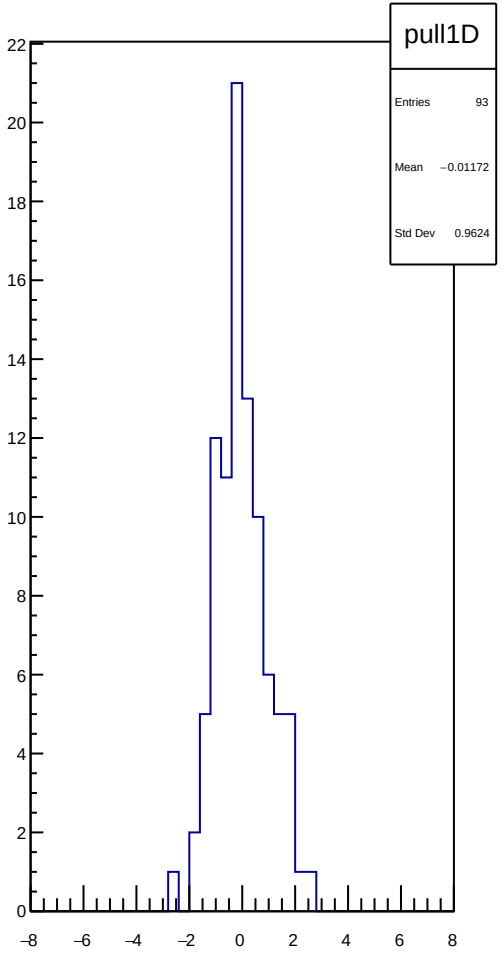

asym_sam_26_avg_dit_correction_rms vs run
χ² / ndf 7642 / 92
p0 2054 ± 1.512
2400
2300
2200
2100
2000
1900
1800
1700

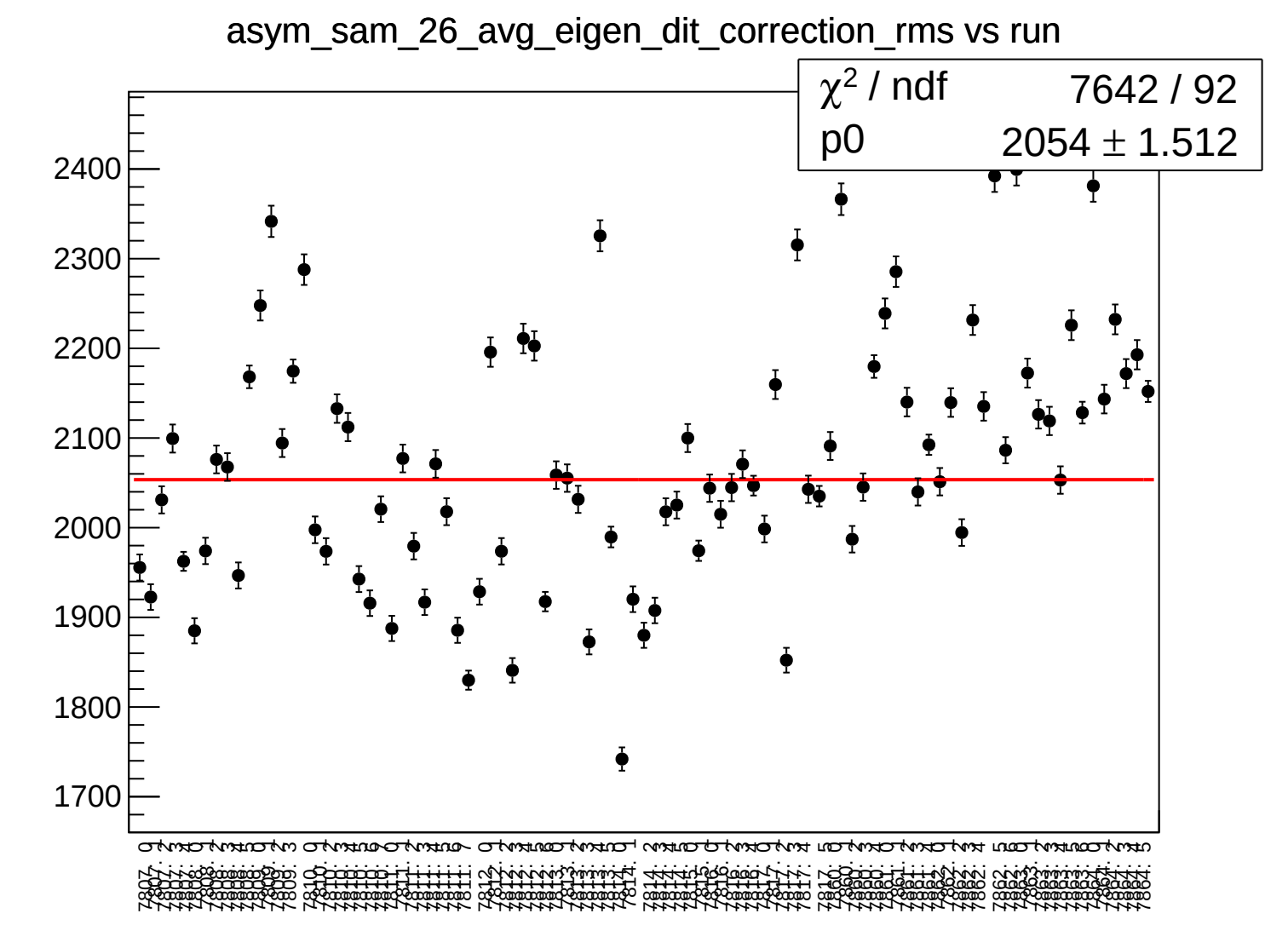

eigen_dit_asym_sam_26_avg_mean vs run
χ² / ndf 103.8 / 92
p0 −276.1± 262.7
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −115.5
Std Dev 0
2
1
0
−1
−2

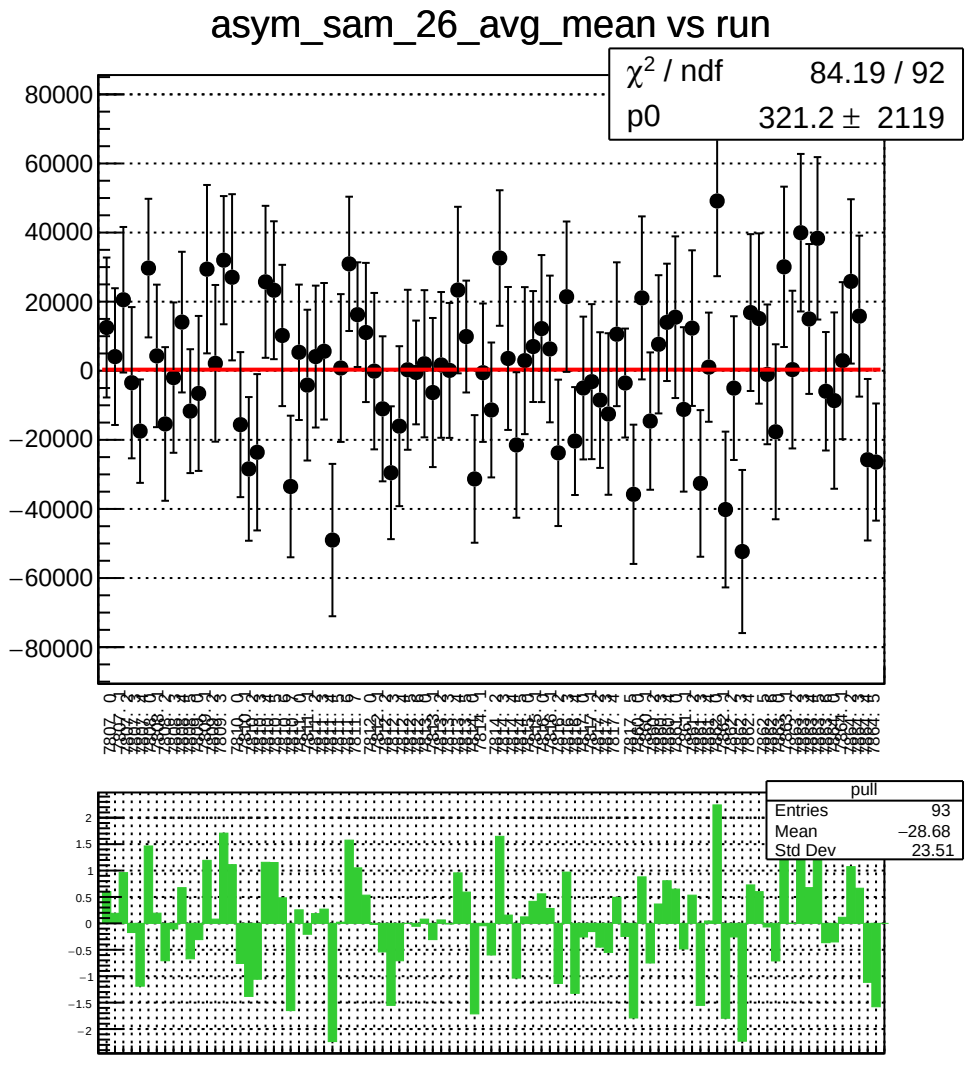

pull1D
Entries 93
Mean 0.006534
Std Dev 1.056
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

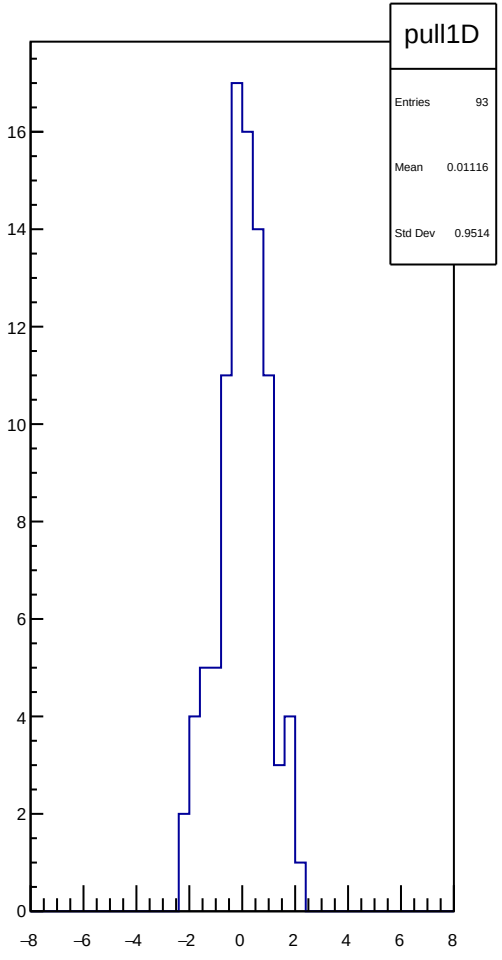

eigen_dit_asym_sam_26_avg_rms vs run
χ² / ndf 2.357e+04 / 92
p0 251.1 ± 0.1857
380
360
340
320
300
280
260
240
220
200

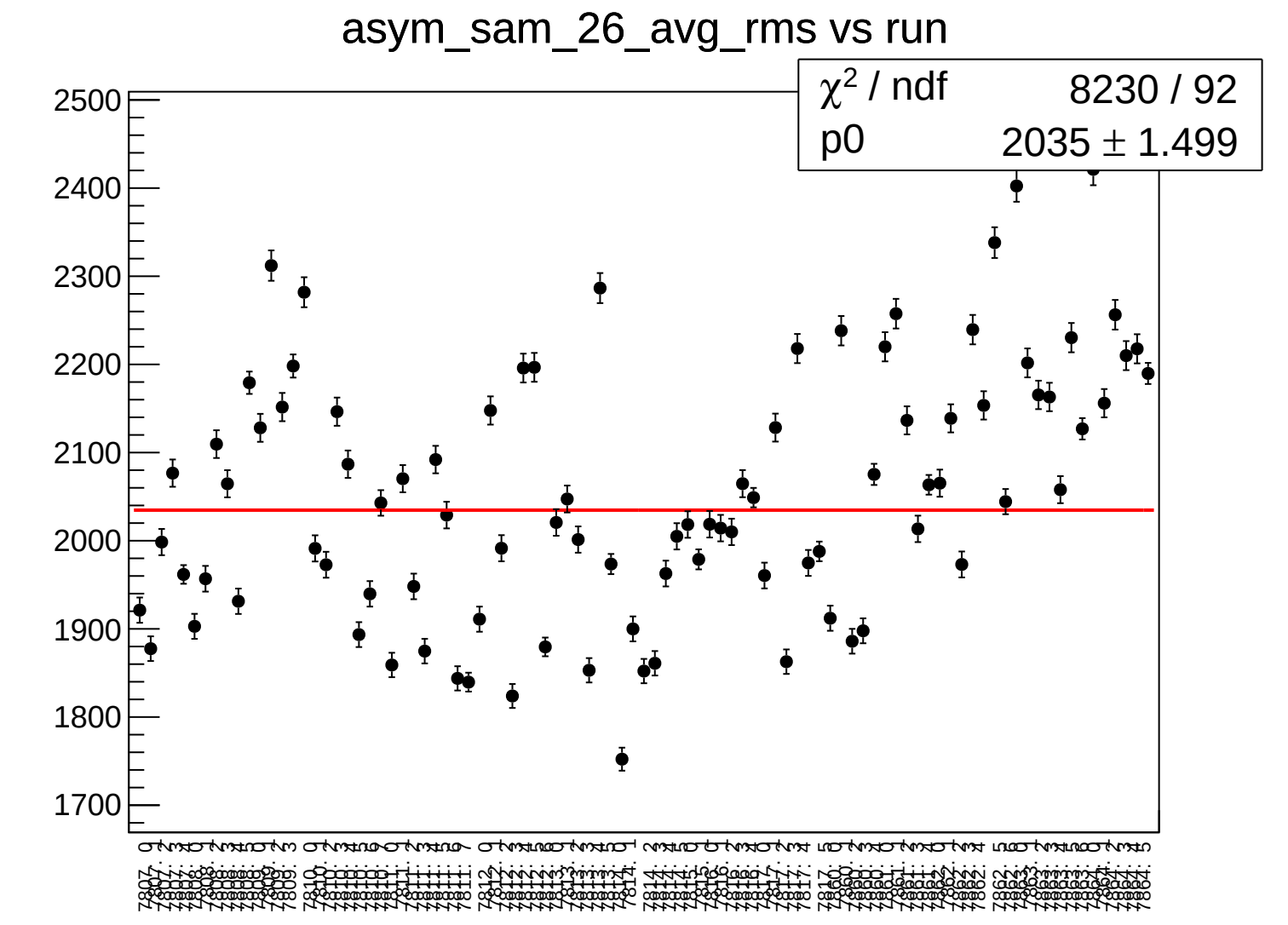

asym_sam_26_avg_eigen_dit_correction_mean vs run
χ² / ndf 86.14 / 92
p0 −547.9 ± 2139
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean −10.08
Std Dev 48.79
2
1
0
−1
−2

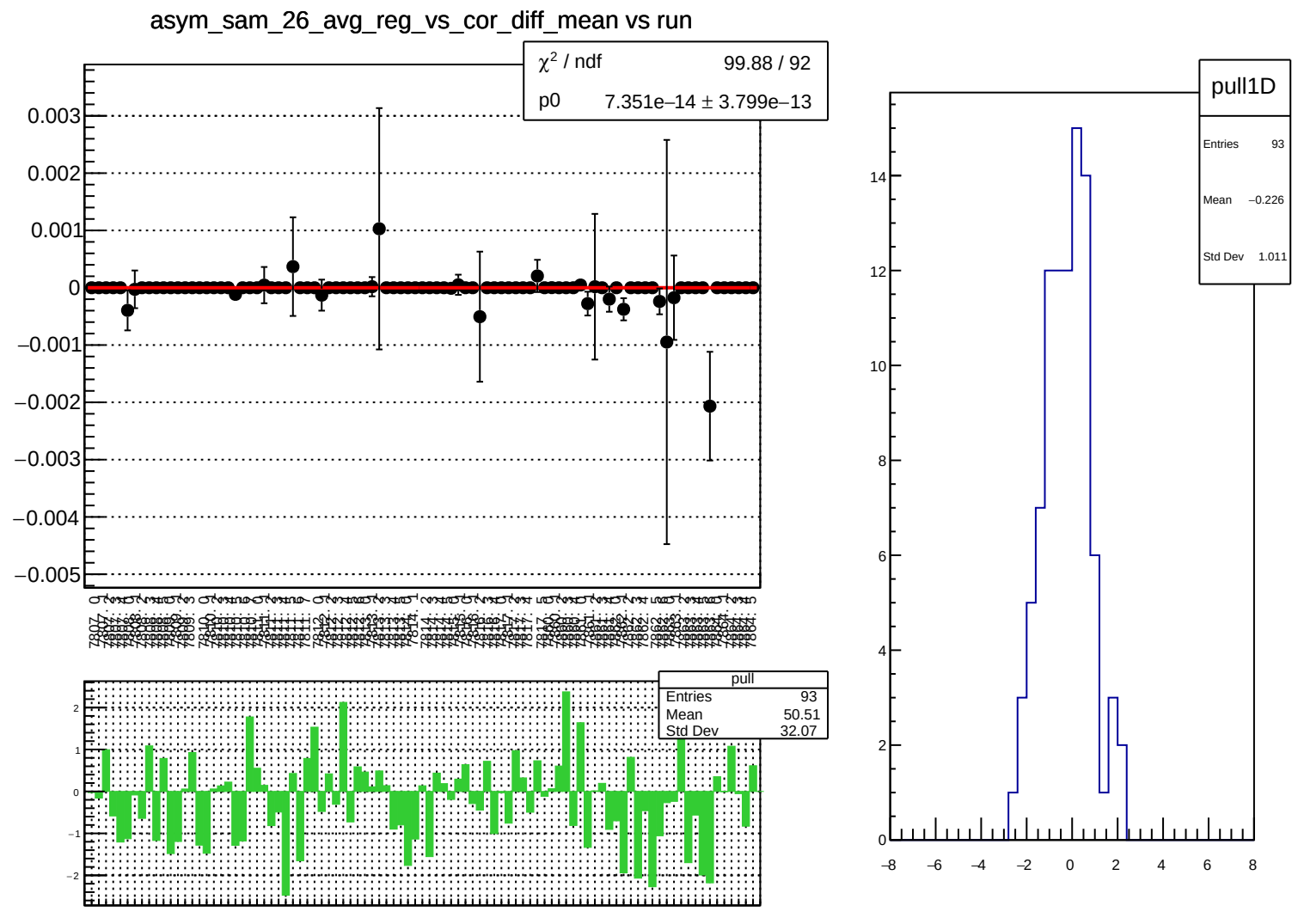

pull1D
Entries 93
Mean −0.01172
Std Dev 0.9624
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

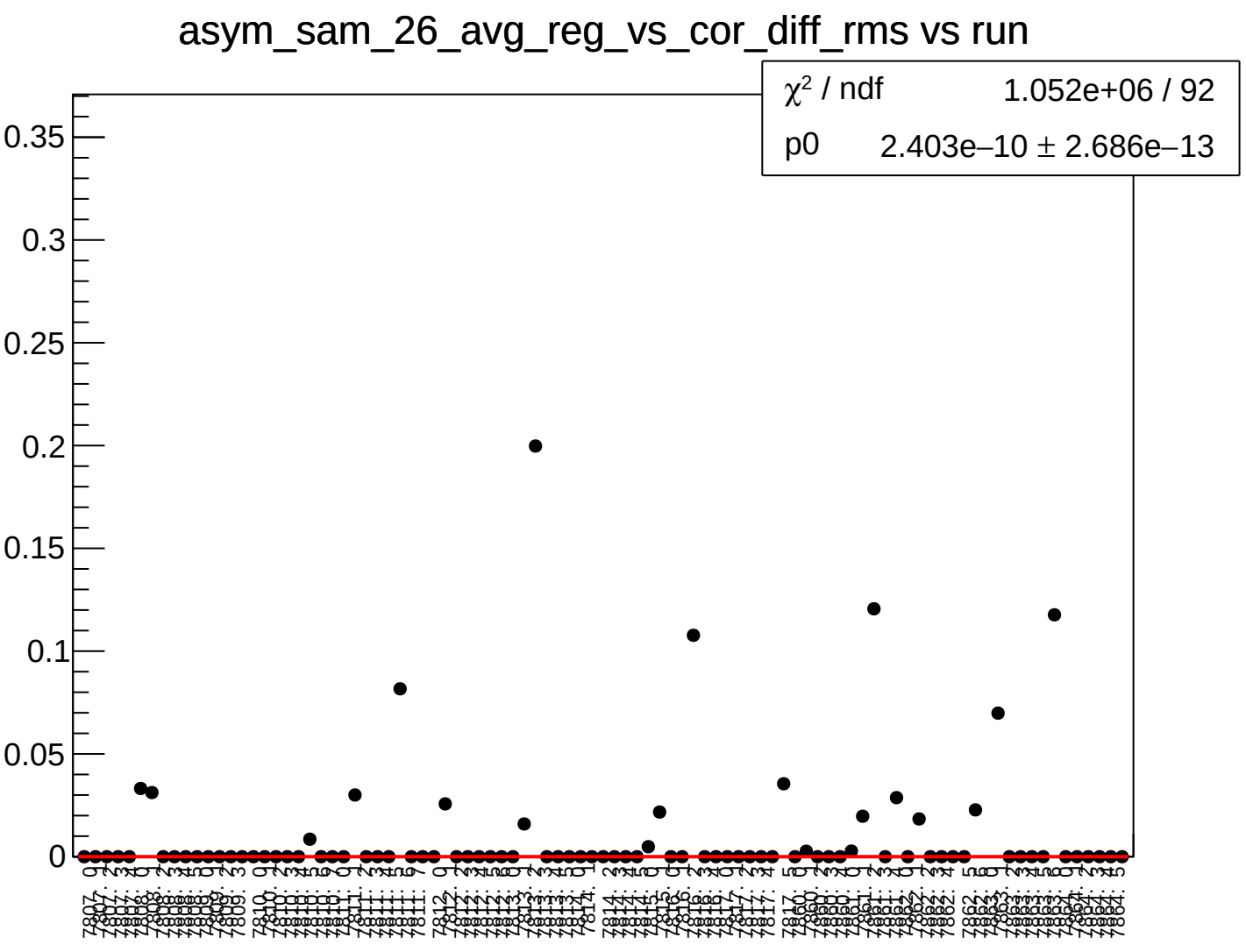

asym_sam_26_avg_eigen_dit_correction_rms vs run
χ² / ndf 7642 / 92
p0 2054 ± 1.512
2400
2300
2200
2100
2000
1900
1800
1700

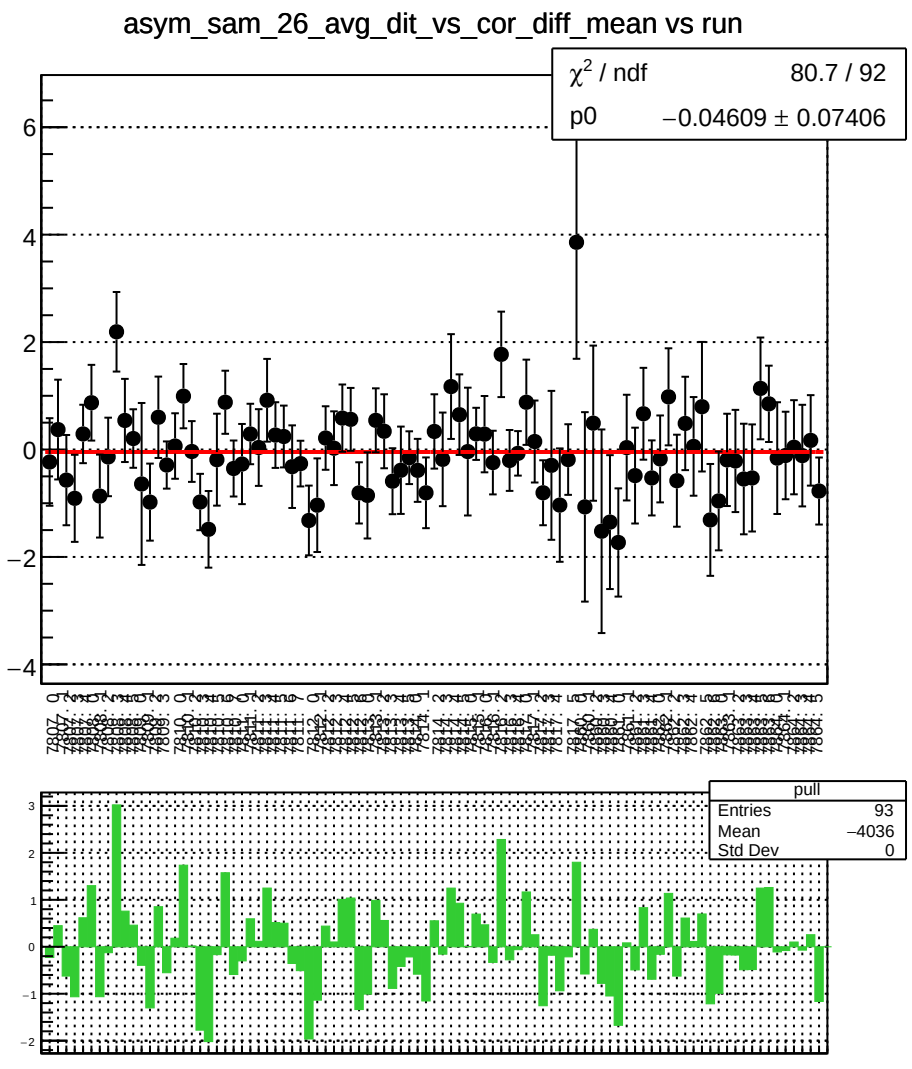

asym_sam_26_avg_mean vs run
χ² / ndf 84.19 / 92
p0 321.2 ± 2119
pull
Entries 93
Mean −28.68
Std Dev 23.51

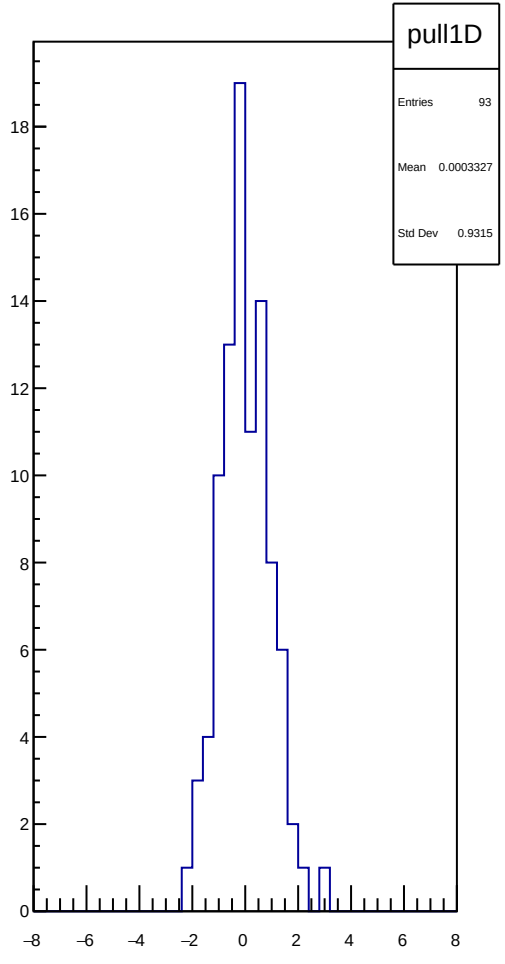

pull1D
Entries 93
Mean 0.01116
Std Dev 0.9514

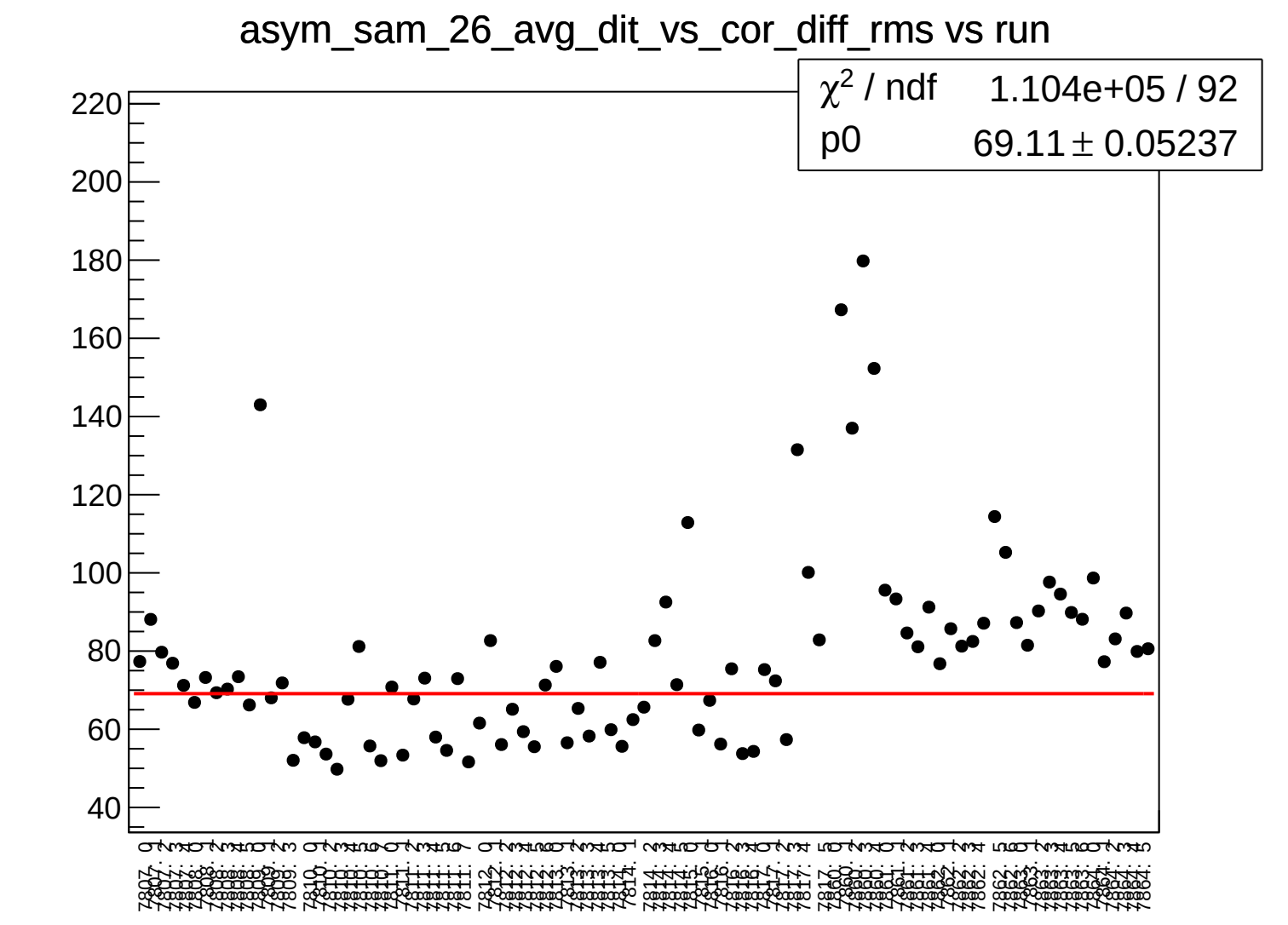

asym_sam_26_avg_rms vs run
χ² / ndf 8230 / 92
p0 2035 ± 1.499
2500
2400
2300
2200
2100
2000
1900
1800
1700

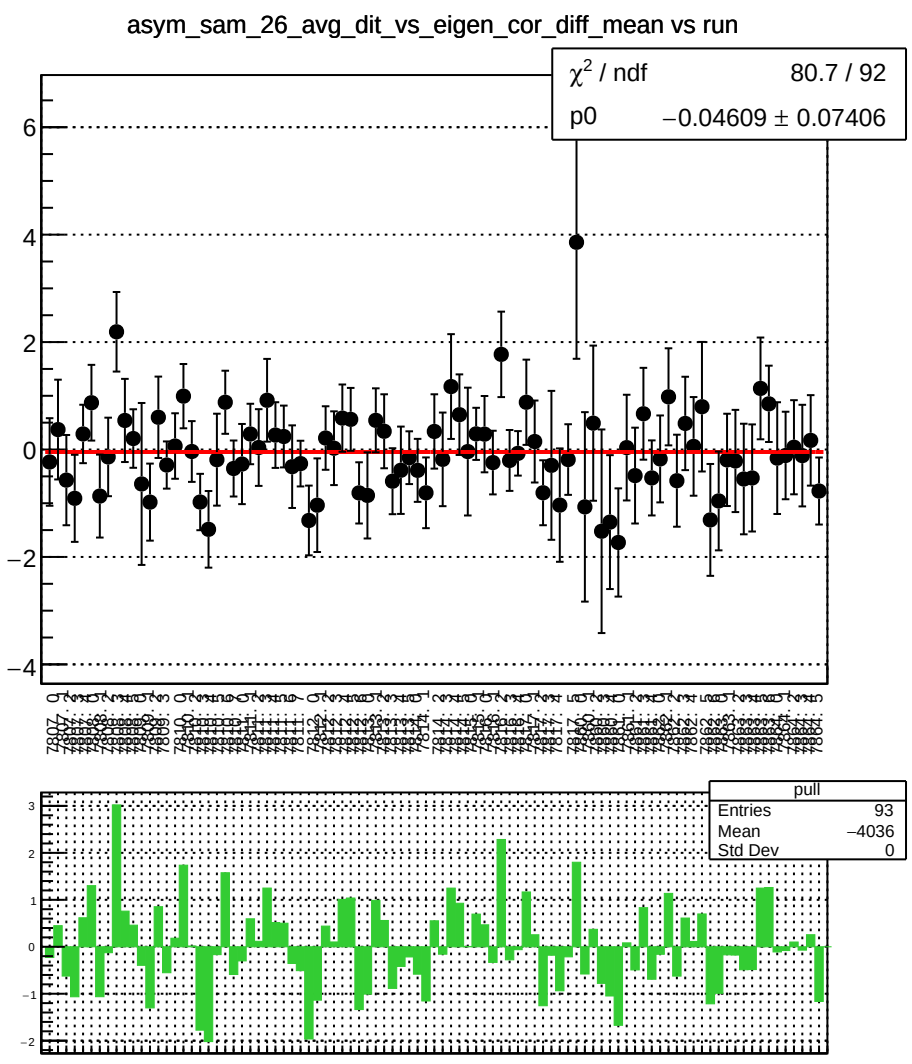

asym_sam_26_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 99.88 / 92
p0 7.351e−14 ± 3.799e−13
0.003
0.002
0.001
0
−0.001
−0.002
−0.003
−0.004
−0.005
pull
Entries 93
Mean 50.51
Std Dev 32.07
pull1D
Entries 93
Mean −0.226
Std Dev 1.011
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

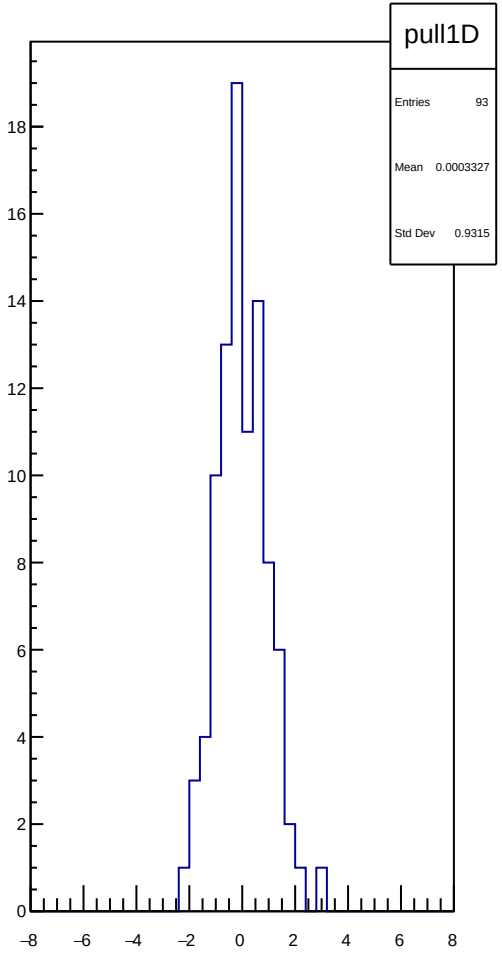

asym_sam_26_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.052e+06 / 92
p0 2.403e−10 ± 2.686e−13
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0

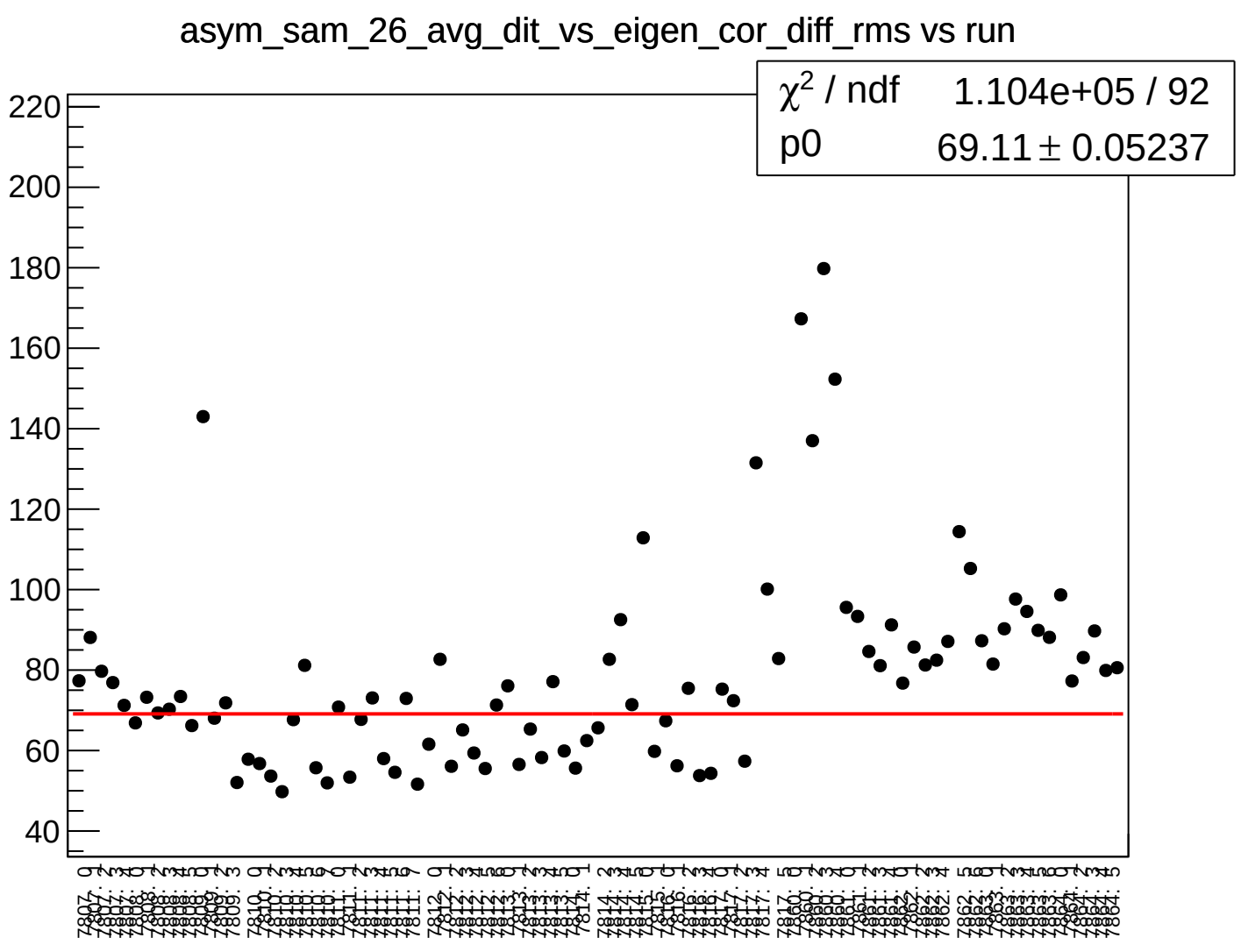

asym_sam_26_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 80.7 / 92
p0 −0.04609 ± 0.07406
pull
Entries 93
Mean −4036
Std Dev 0

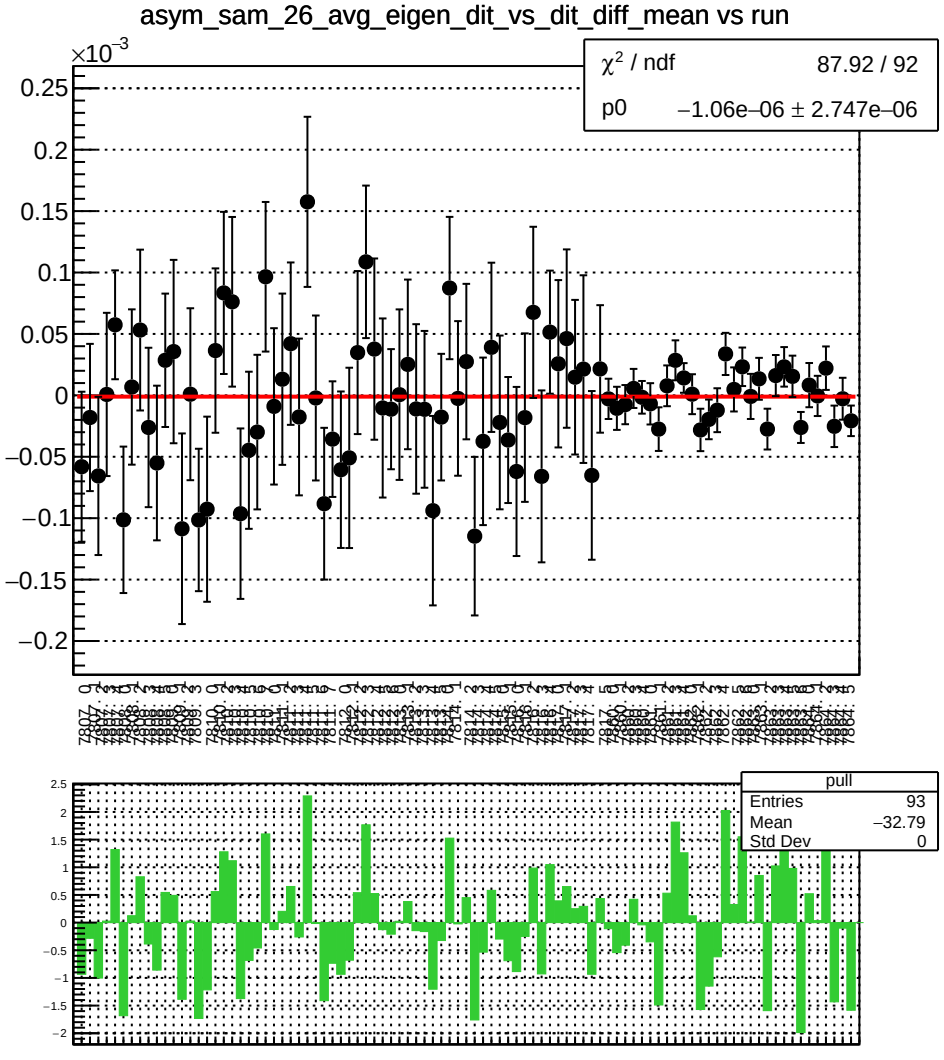

pull1D
Entries 93
Mean 0.0003327
Std Dev 0.9315

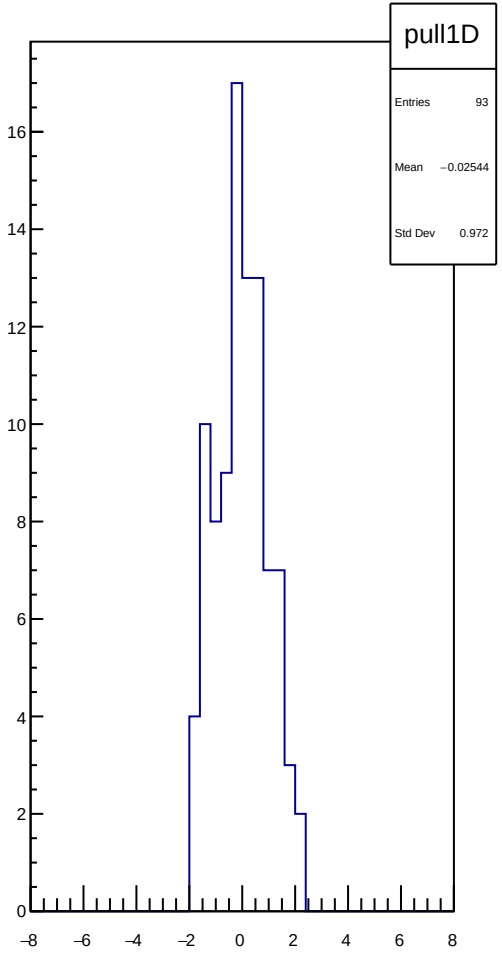

asym_sam_26_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.104e+05 / 92
p0 69.11 ± 0.05237
220
200
180
160
140
120
100
80
60
40

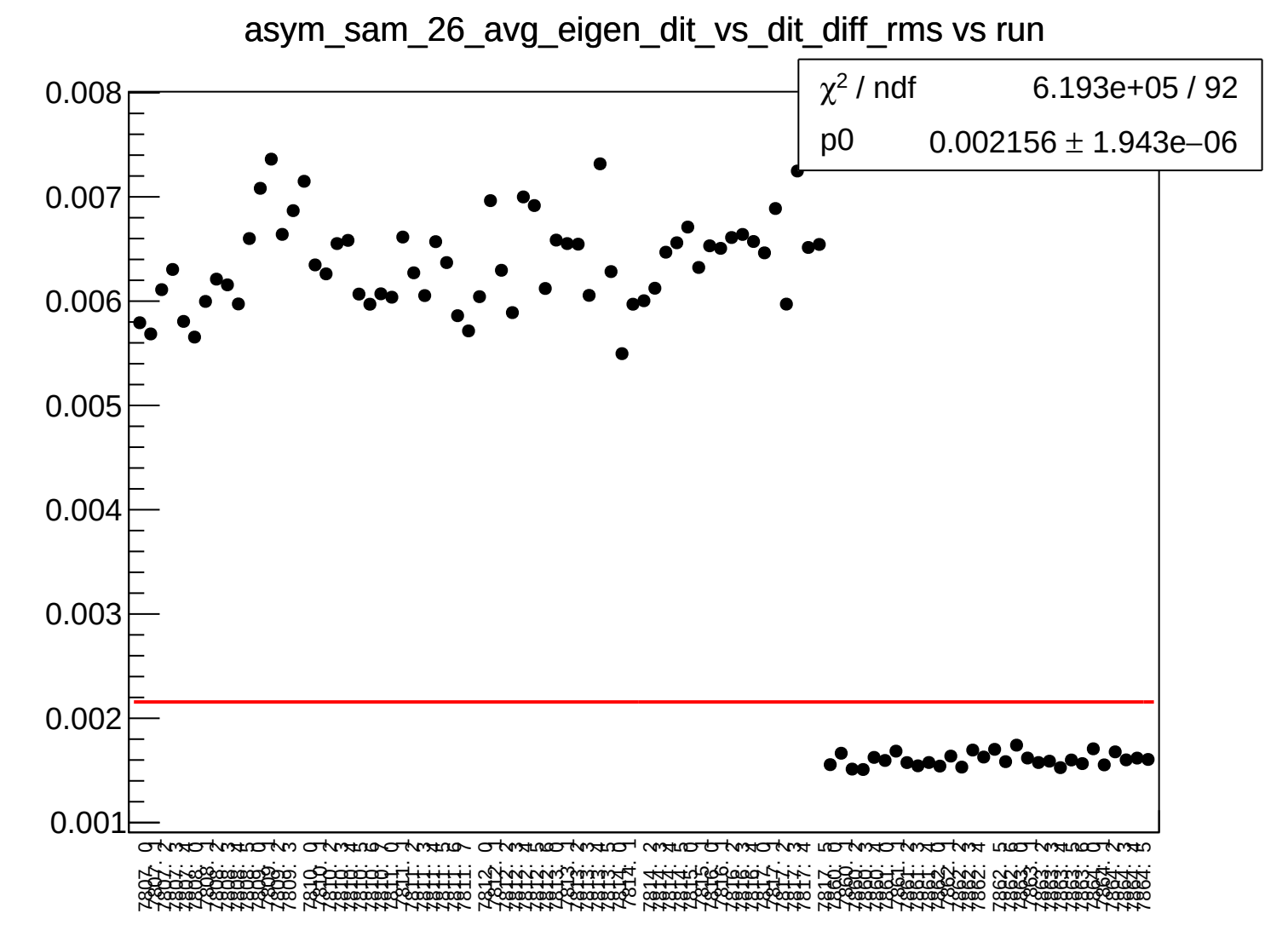

asym_sam_26_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.7 / 92
p0 −0.04609 ± 0.07406
pull
Entries 93
Mean −4036
Std Dev 0

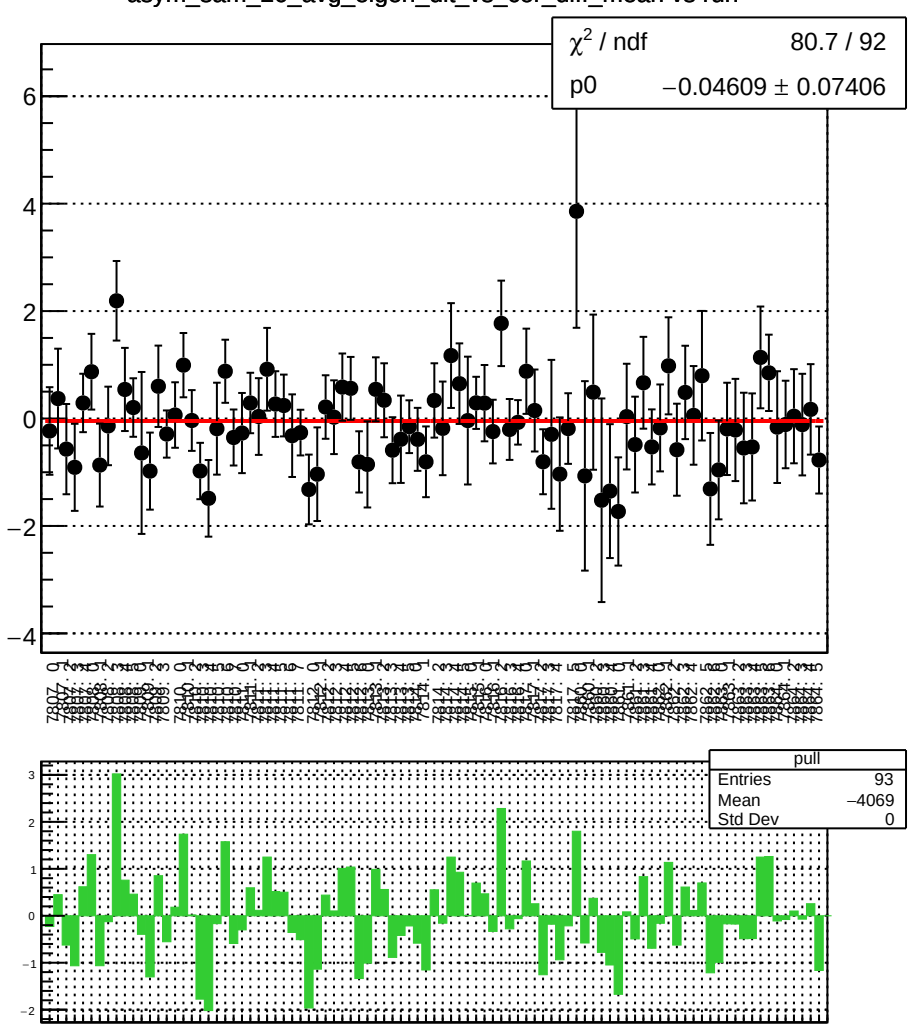

pull1D
Entries 93
Mean 0.0003327
Std Dev 0.9315

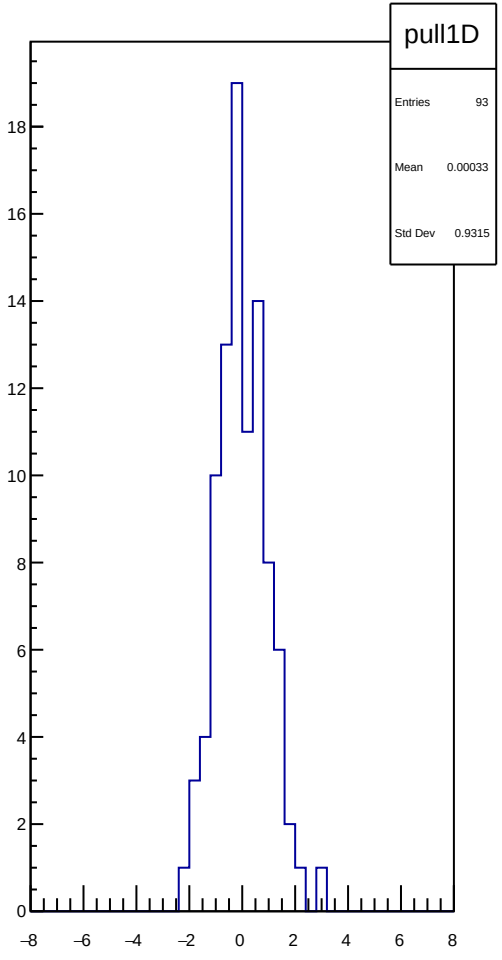

asym_sam_26_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.104e+05 / 92
p0 69.11 ± 0.05237
220
200
180
160
140
120
100
80
60
40

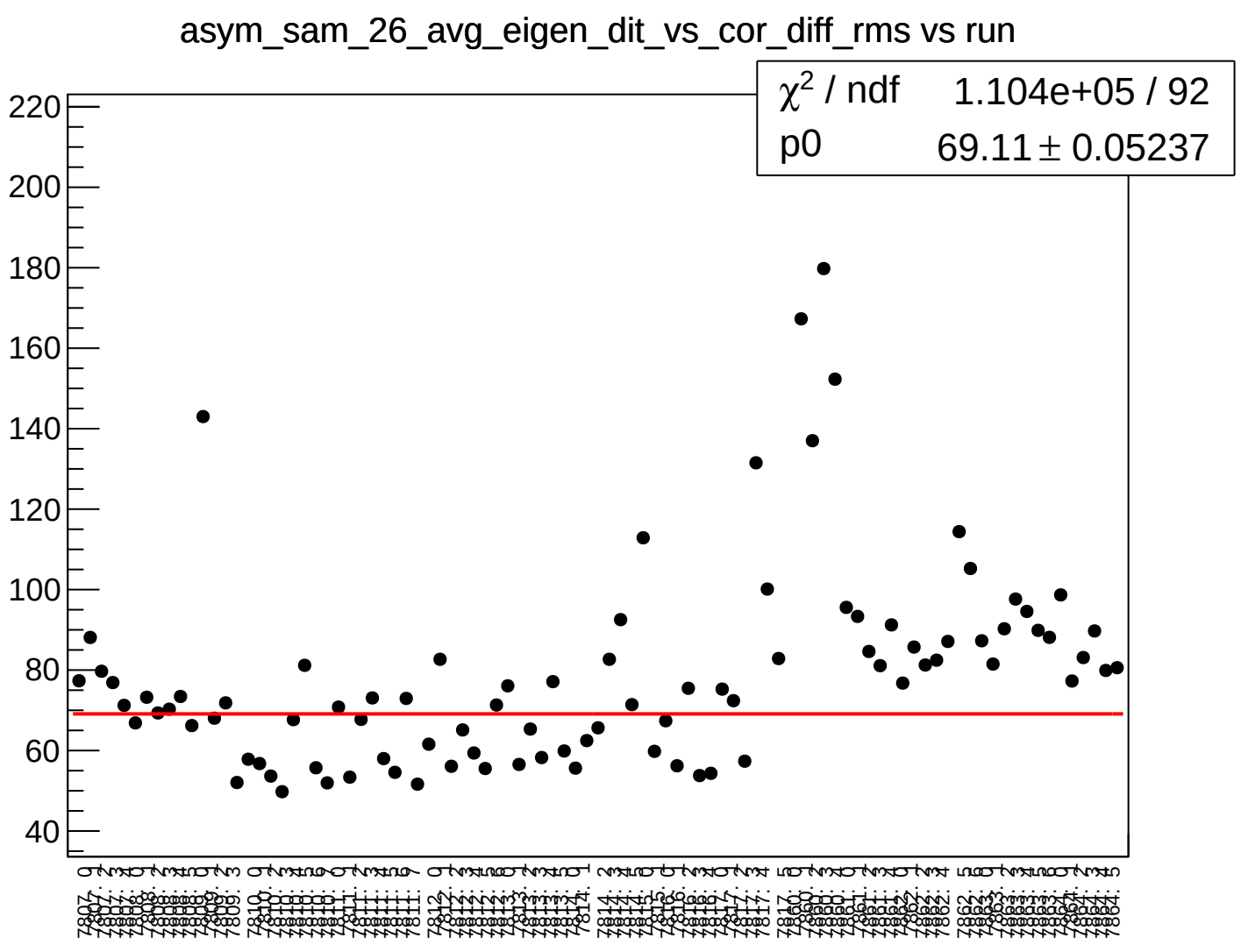

asym_sam_26_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.92 / 92
p0 −1.06e−06 ± 2.747e−06
pull
Entries 93
Mean −32.79
Std Dev 0

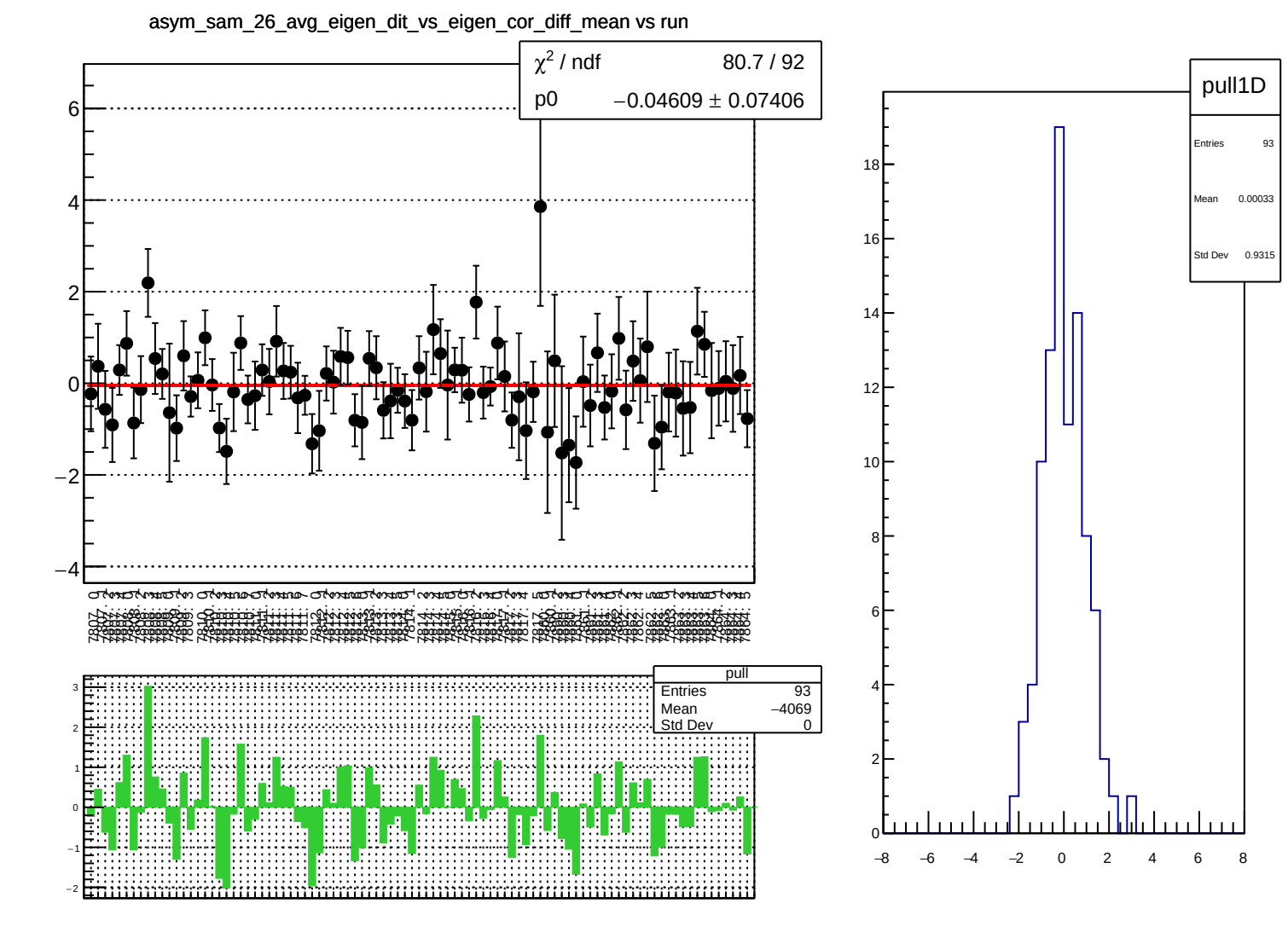

pull1D
Entries 93
Mean −0.02544
Std Dev 0.972

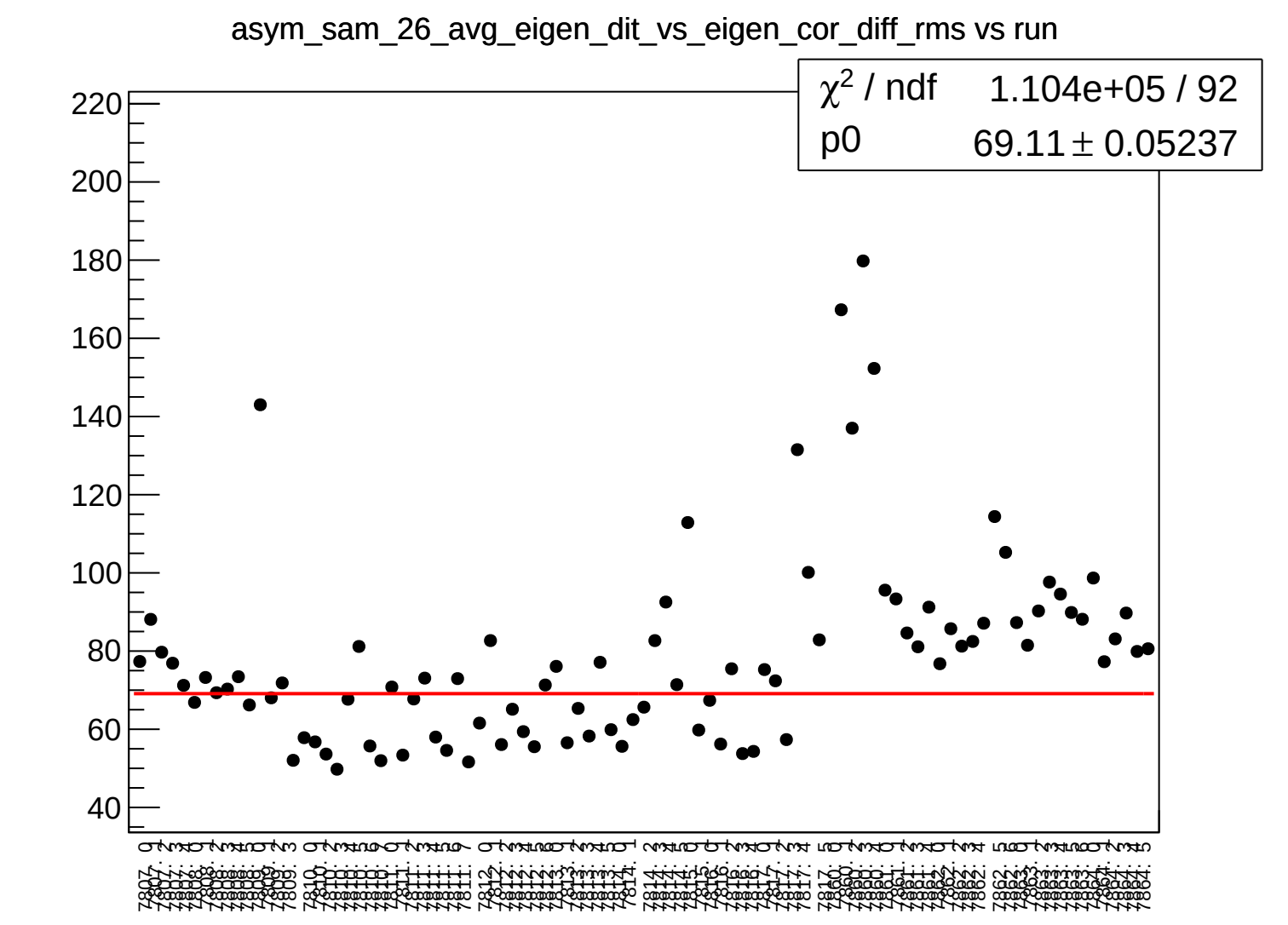

asym_sam_26_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.193e+05 / 92
p0 0.002156 ± 1.943e−06
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001

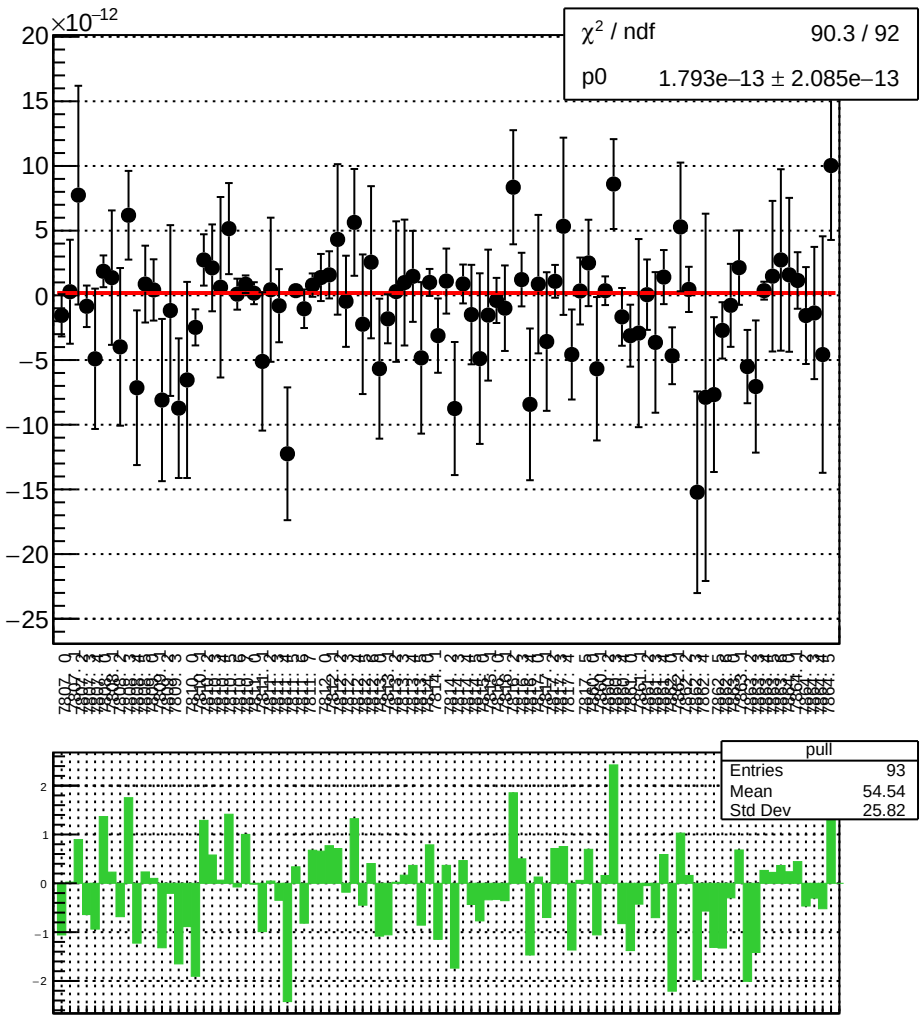

asym_sam_26_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.7 / 92
p0 −0.04609 ± 0.07406
pull
Entries 93
Mean −4069
Std Dev 0

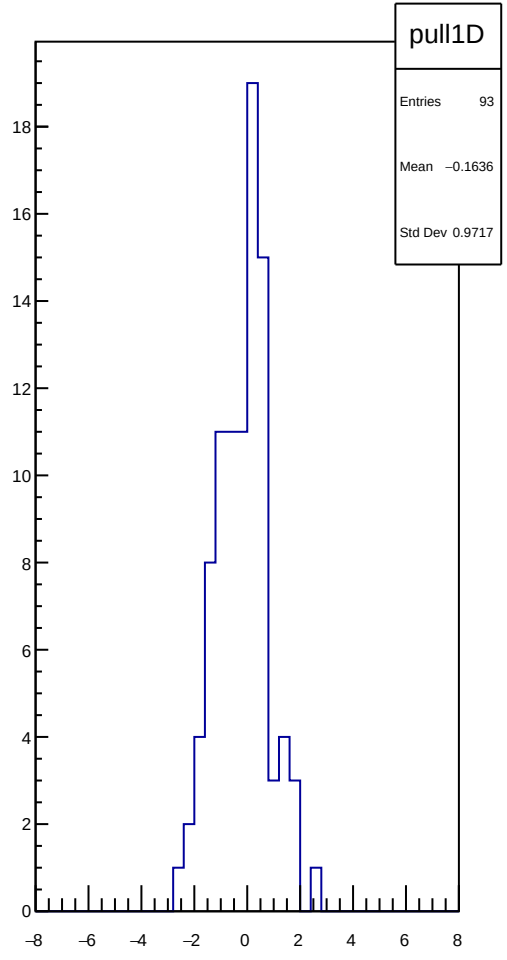

pull1D
Entries 93
Mean 0.00033
Std Dev 0.9315

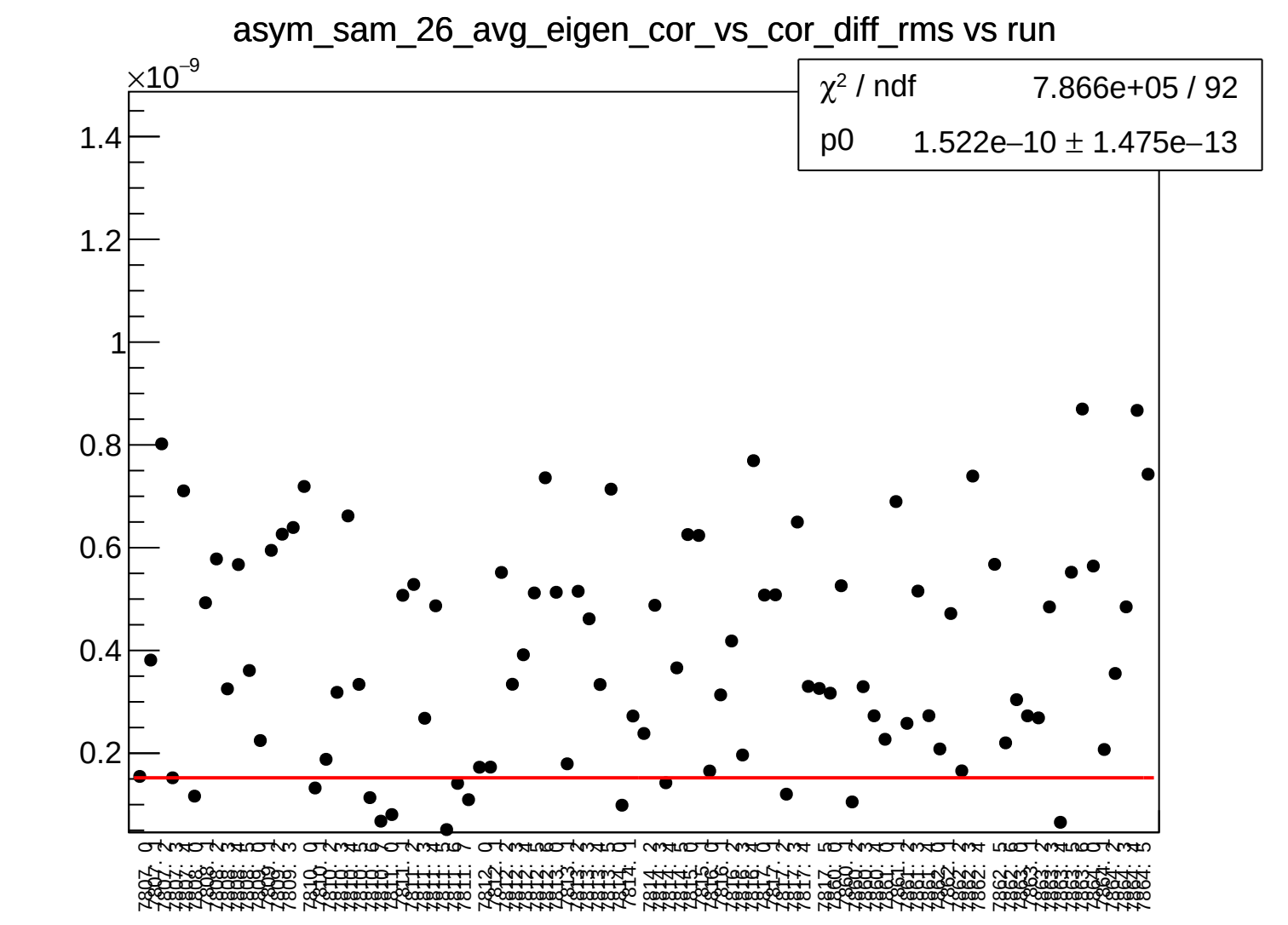

asym_sam_26_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.104e+05 / 92
p0 69.11 ± 0.05237
220
200
180
160
140
120
100
80
60
40

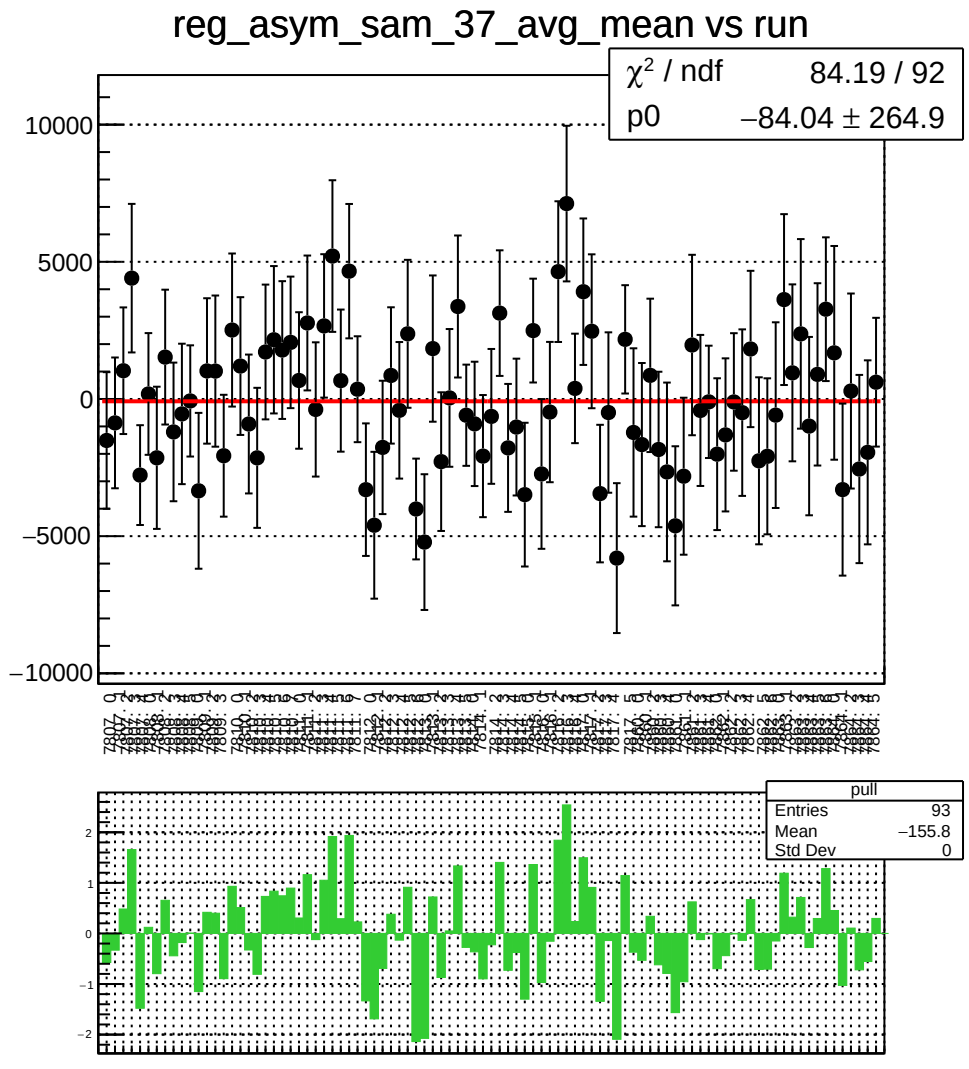

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.7 / 92
p0 −0.04609 ± 0.07406
pull
Entries 93
Mean −4069
Std Dev 0
pull1D
Entries 93
Mean 0.00033
Std Dev 0.9315

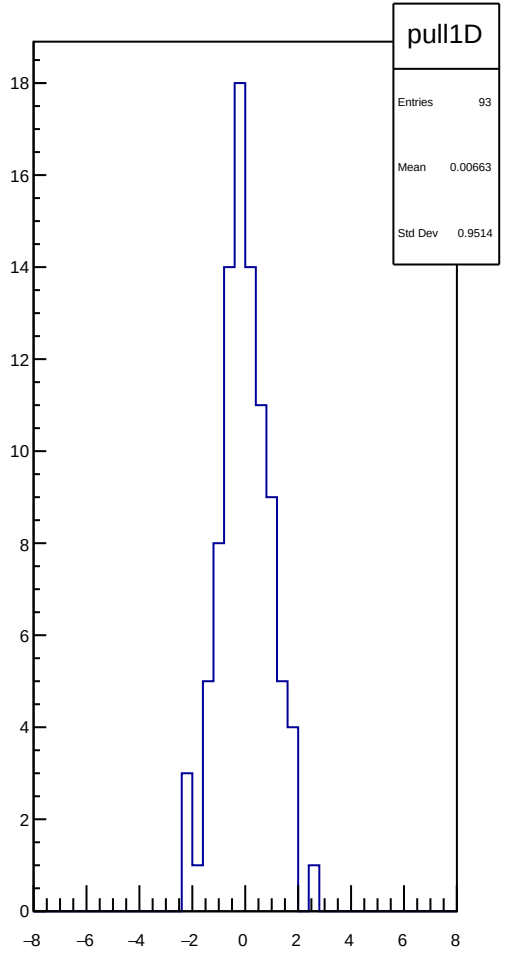

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.104e+05 / 92
p0 69.11 ± 0.05237
220
200
180
160
140
120
100
80
60
40

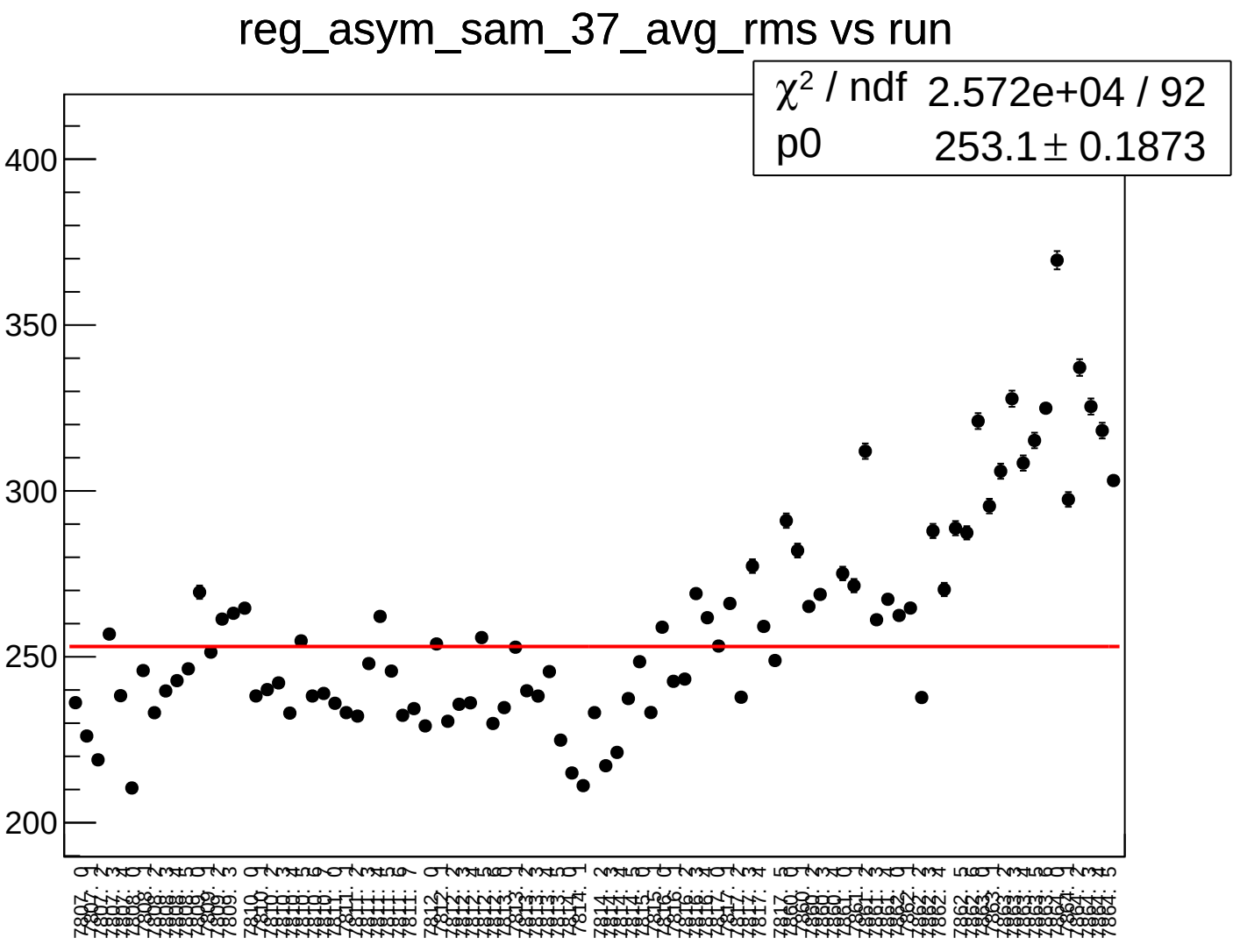

asym_sam_26_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.3 / 92
p0 1.793e−13 ± 2.085e−13
pull
Entries 93
Mean 54.54
Std Dev 25.82

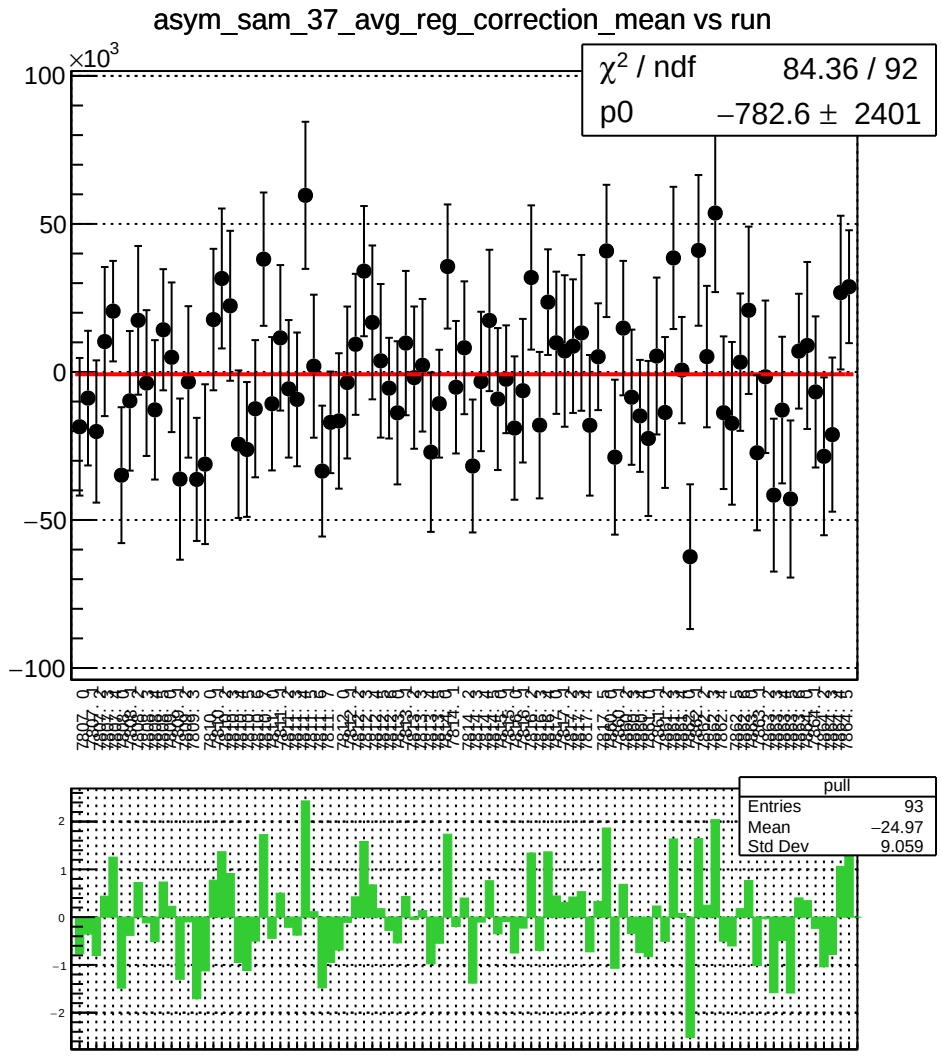

pull1D
Entries 93
Mean −0.1636
Std Dev 0.9717

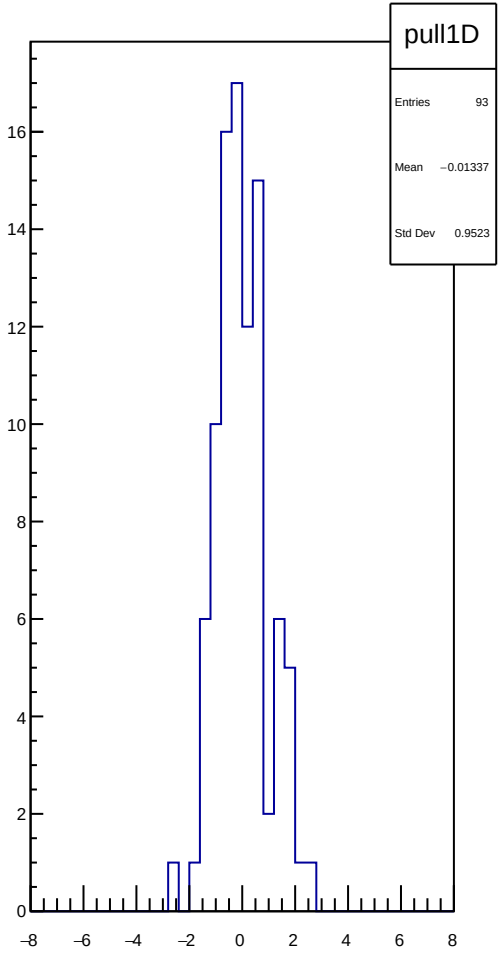

asym_sam_26_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.866e+05 / 92
p0 1.522e−10 ± 1.475e−13
1.4
1.2
1
0.8
0.6
0.4
0.2

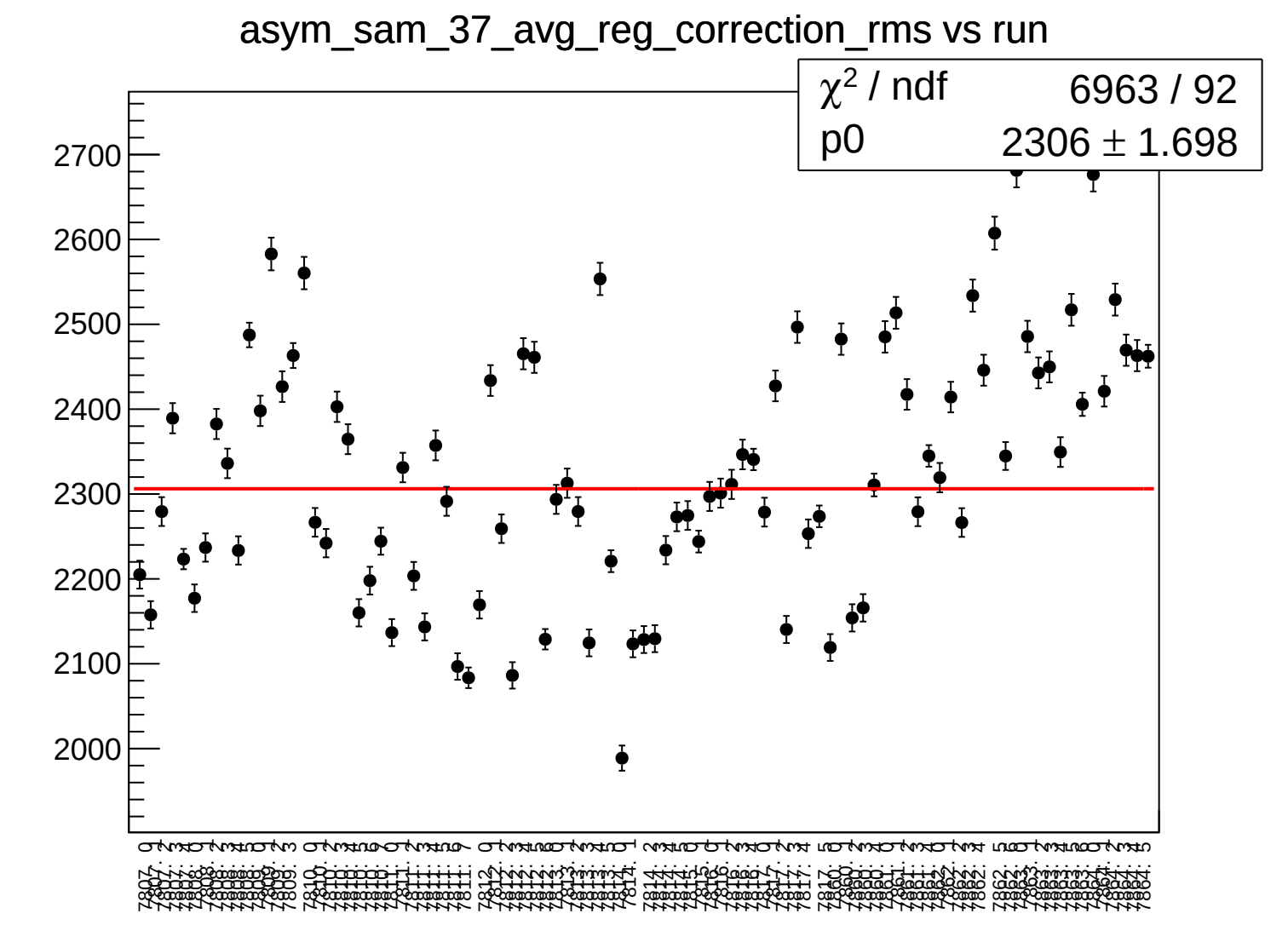

reg_asym_sam_37_avg_mean vs run
χ² / ndf 84.19 / 92
p0 −84.04 ± 264.9
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −155.8
Std Dev 0
2
1
0
−1
−2

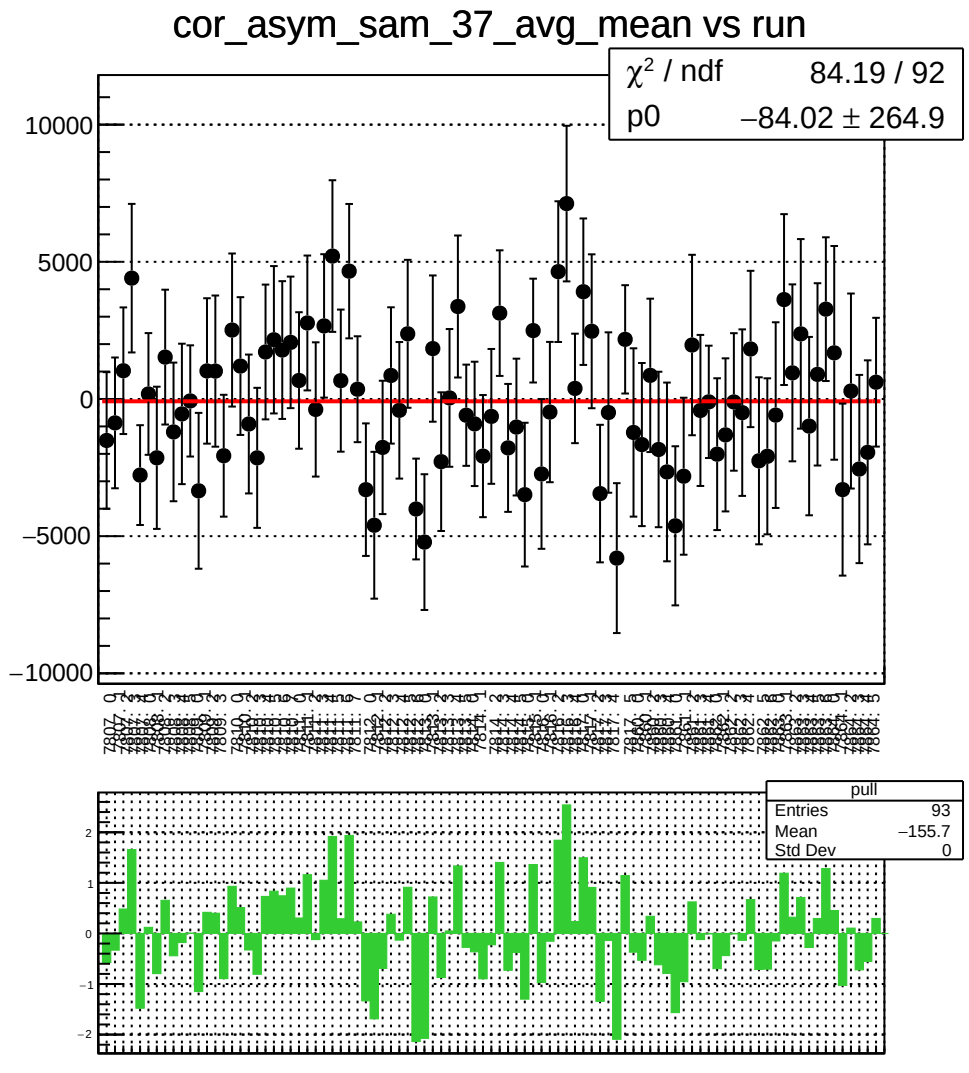

pull1D
Entries 93
Mean 0.00663
Std Dev 0.9514
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

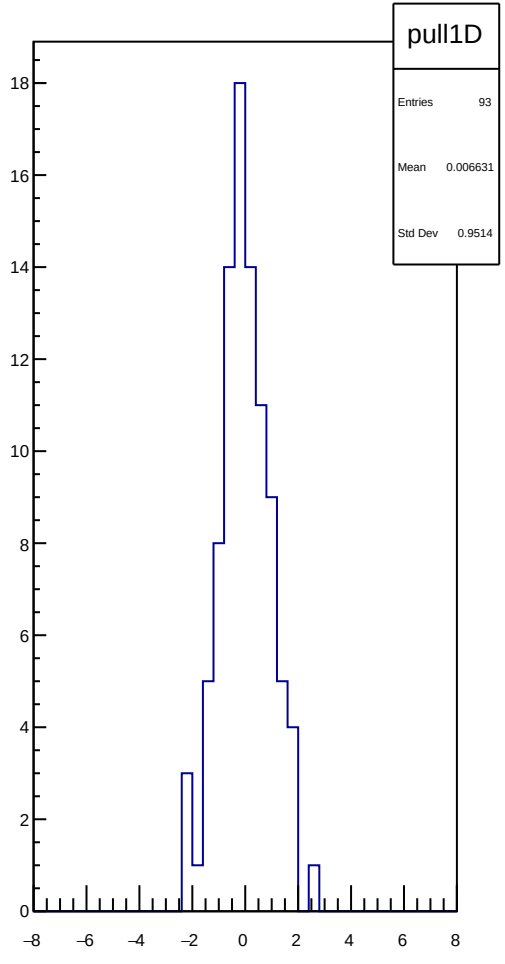

reg_asym_sam_37_avg_rms vs run
χ² / ndf 2.572e+04 / 92
p0 253.1 ± 0.1873
400
350
300
250
200

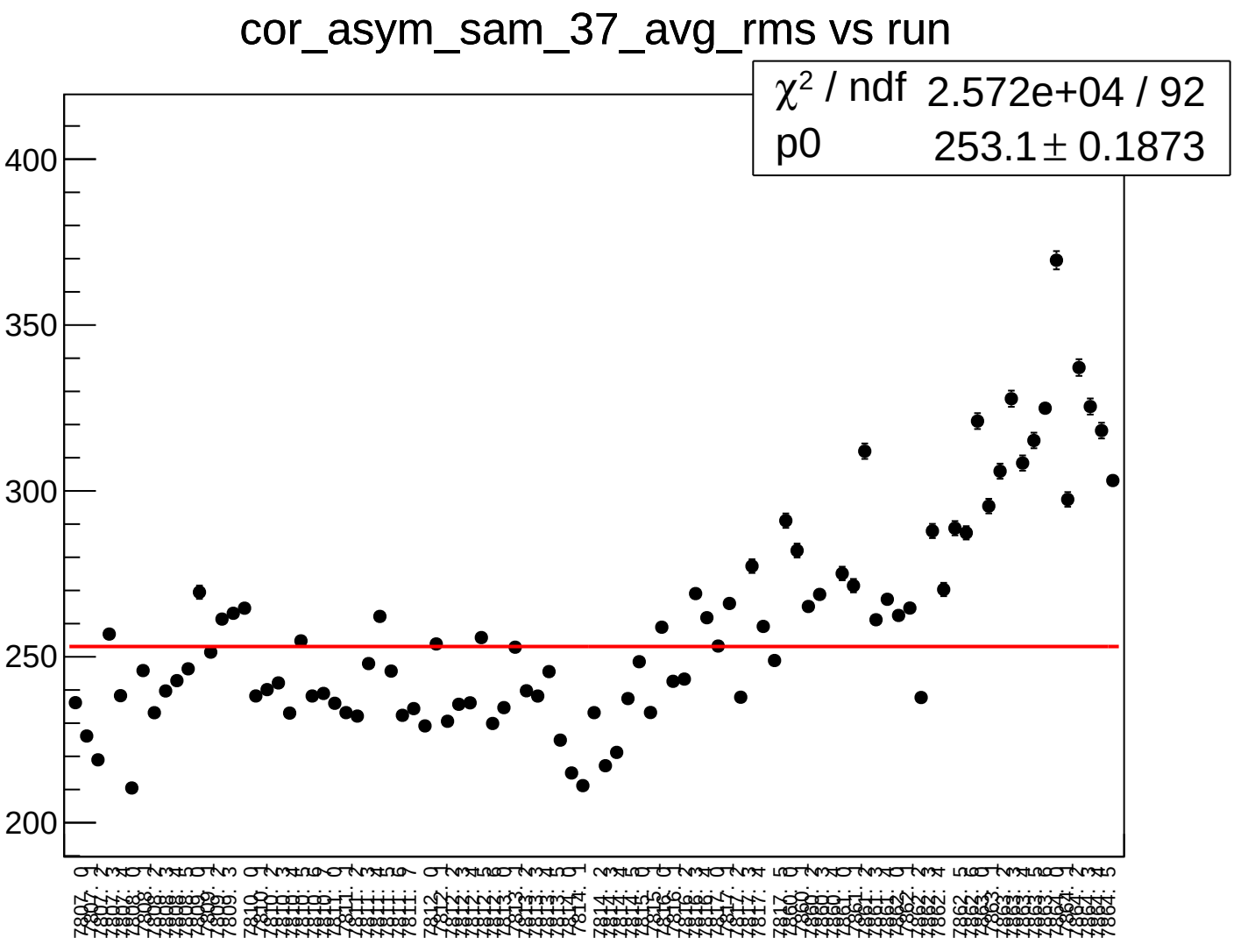

asym_sam_37_avg_reg_correction_mean vs run
×10^3
χ² / ndf 84.36 / 92
p0 −782.6 ± 2401
pull
Entries 93
Mean −24.97
Std Dev 9.059

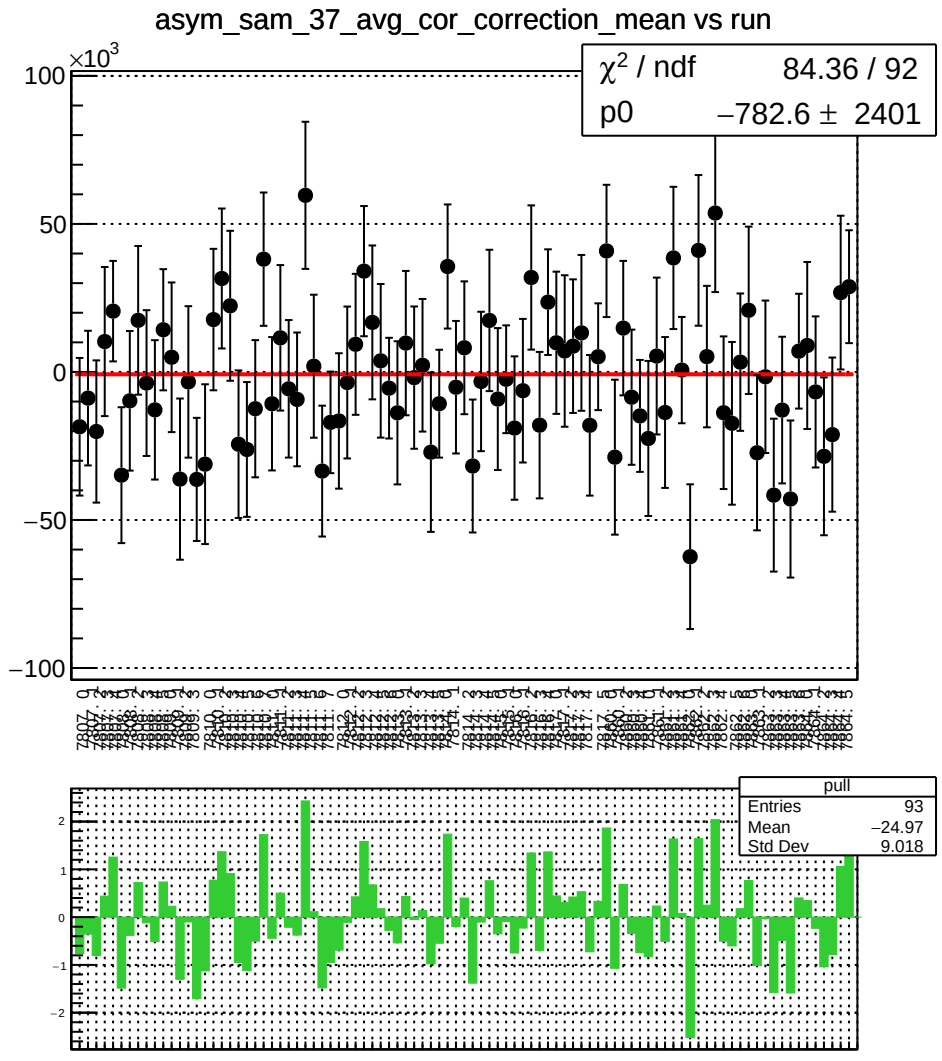

pull1D
Entries 93
Mean −0.01337
Std Dev 0.9523

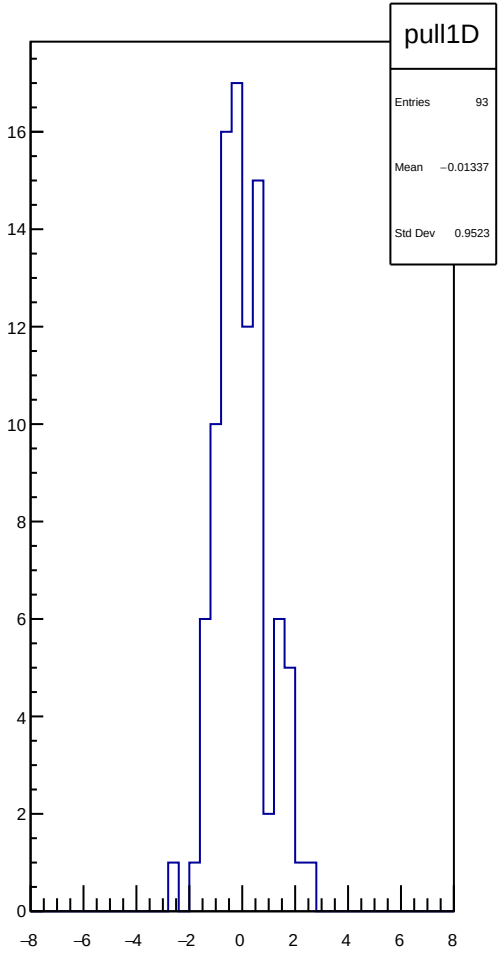

asym_sam_37_avg_reg_correction_rms vs run
χ² / ndf 6963 / 92
p0 2306 ± 1.698
2700
2600
2500
2400
2300
2200
2100
2000

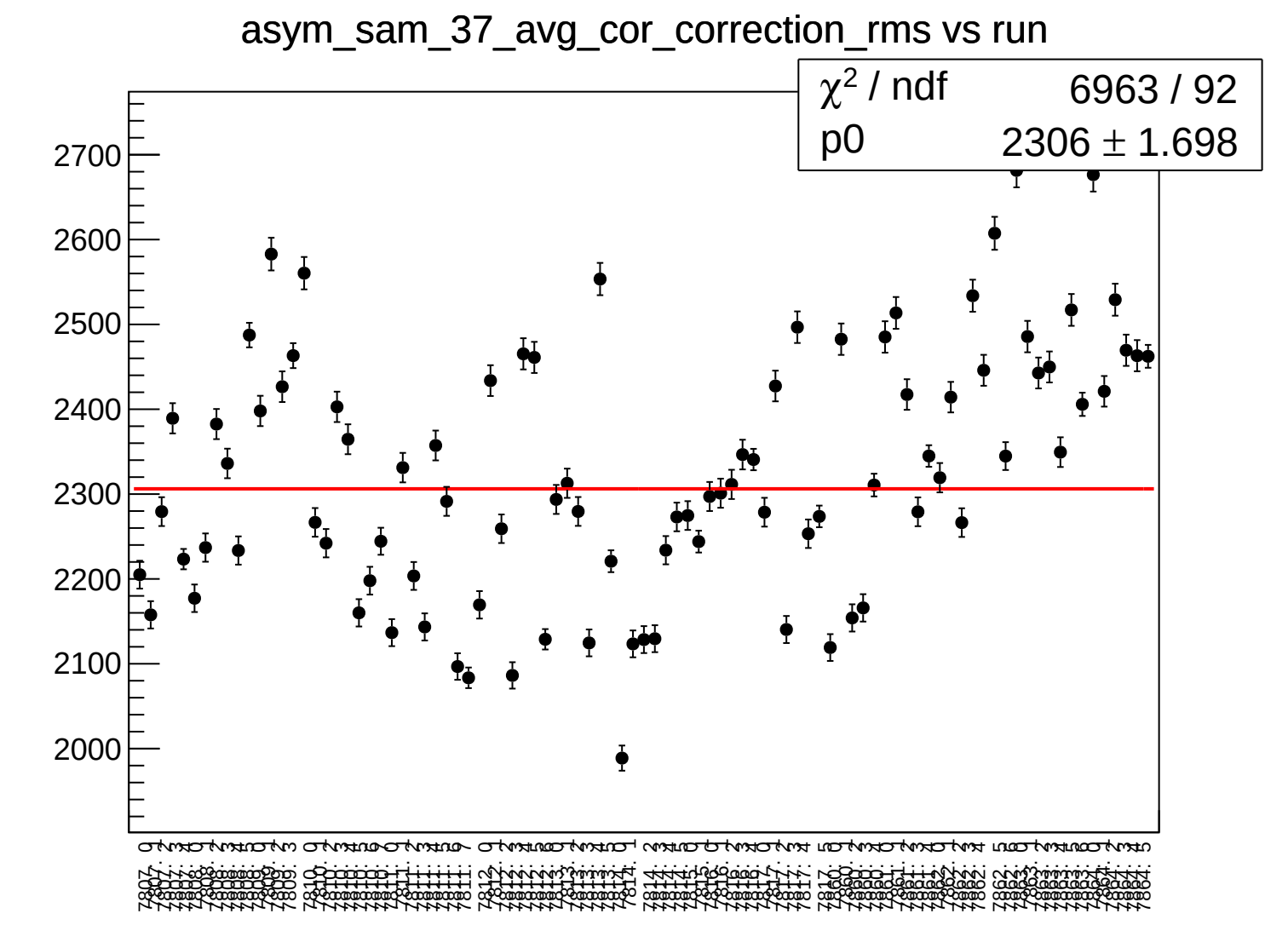

cor_asym_sam_37_avg_mean vs run
χ² / ndf 84.19 / 92
p0 −84.02 ± 264.9
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −155.7
Std Dev 0
2
1
0
−1
−2

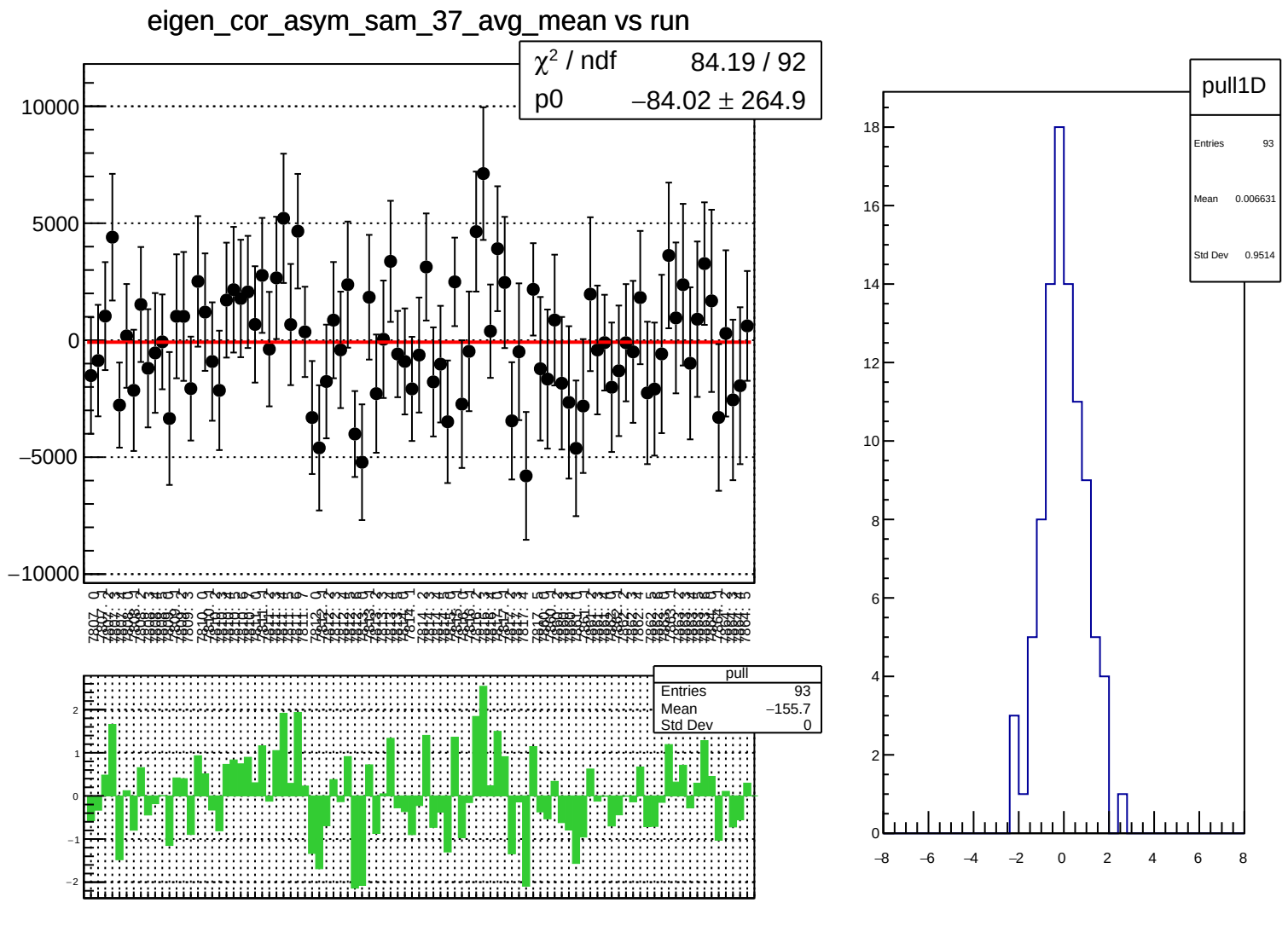

pull1D
Entries 93
Mean 0.006631
Std Dev 0.9514
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

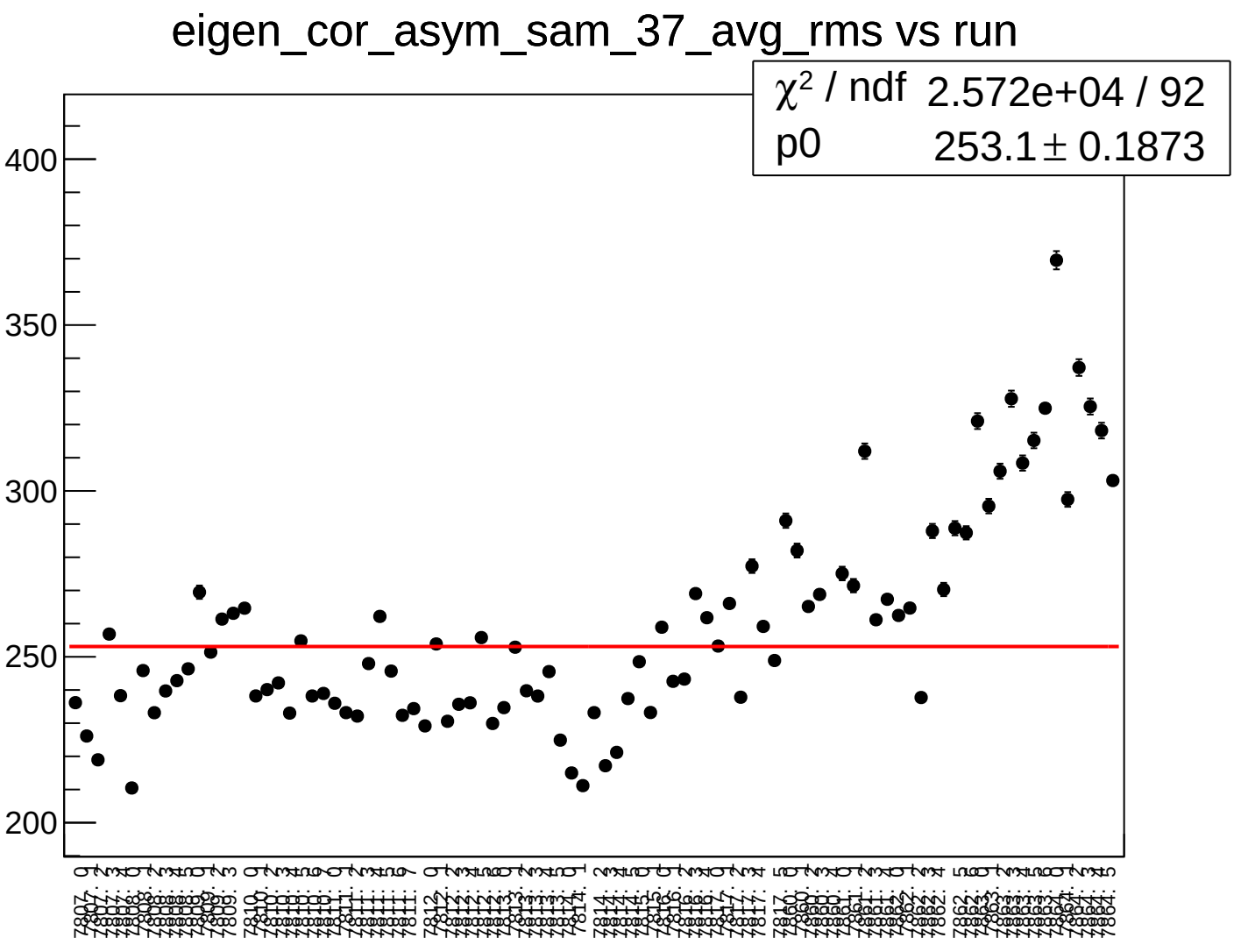

cor_asym_sam_37_avg_rms vs run
χ² / ndf 2.572e+04 / 92
p0 253.1 ± 0.1873
400
350
300
250
200

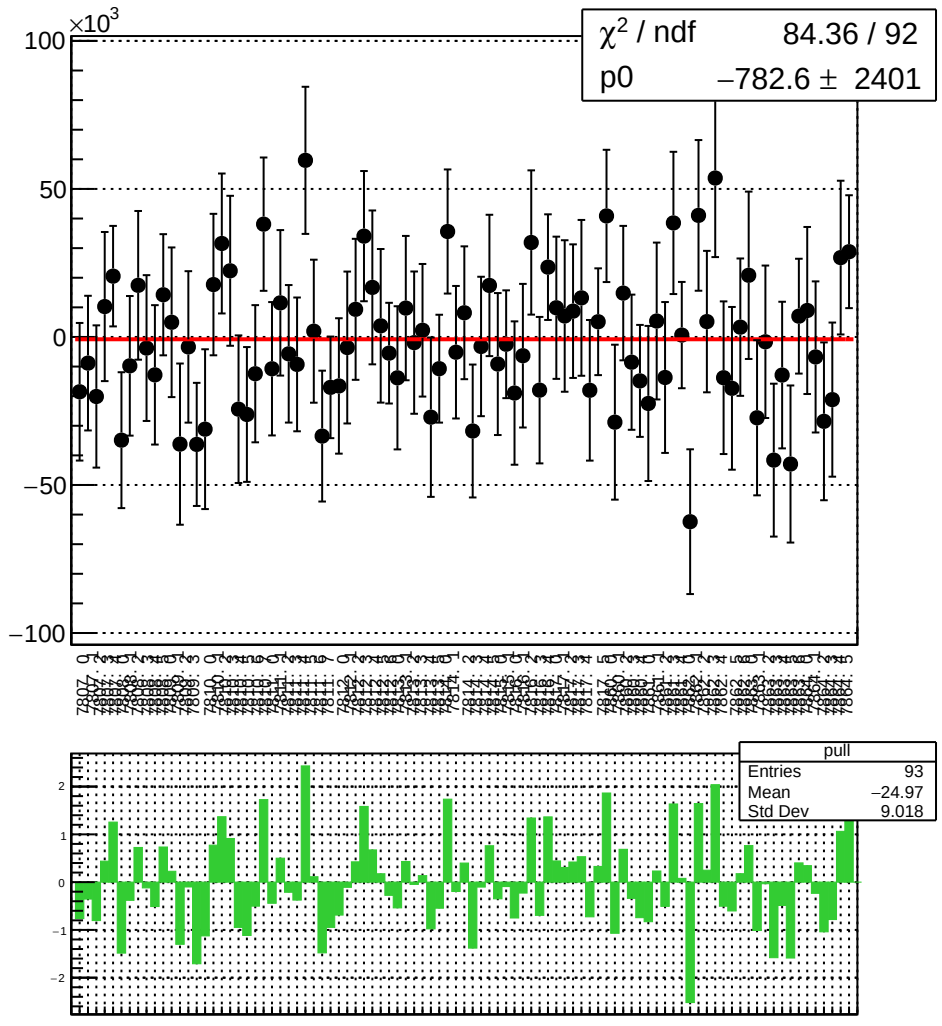

asym_sam_37_avg_cor_correction_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 84.36 / 92
p0 −782.6 ± 2401
pull
Entries 93
Mean −24.97
Std Dev 9.018
2
1
0
−1
−2

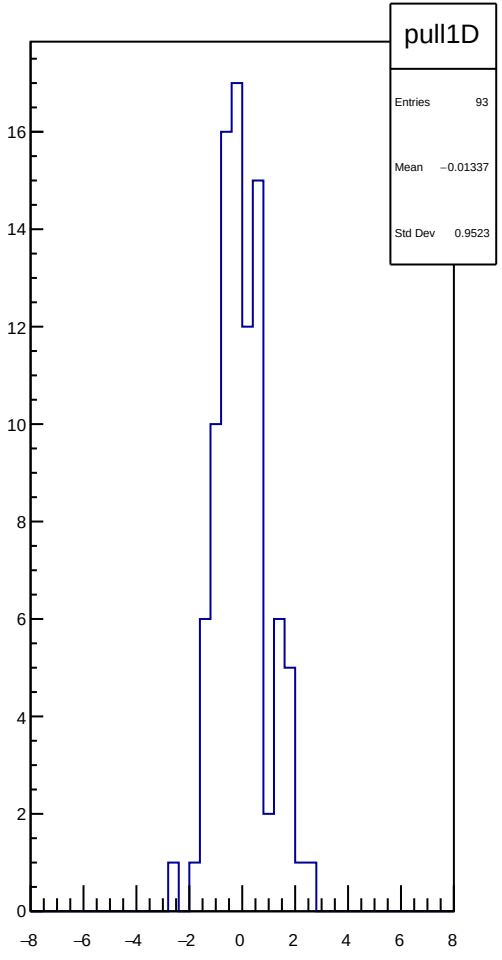

pull1D
Entries 93
Mean −0.01337
Std Dev 0.9523
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

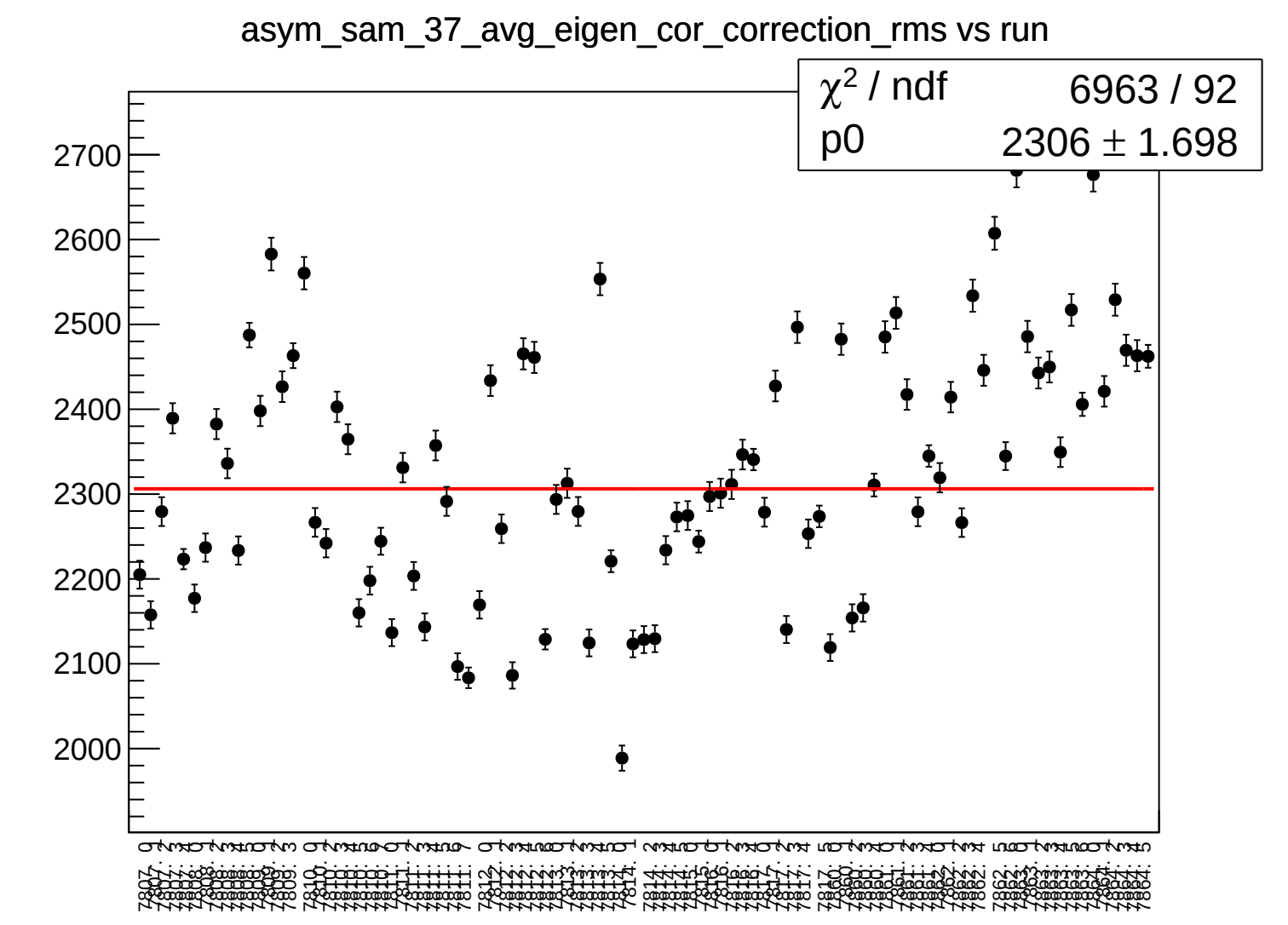

asym_sam_37_avg_cor_correction_rms vs run
χ² / ndf 6963 / 92
p0 2306 ± 1.698
2700
2600
2500
2400
2300
2200
2100
2000

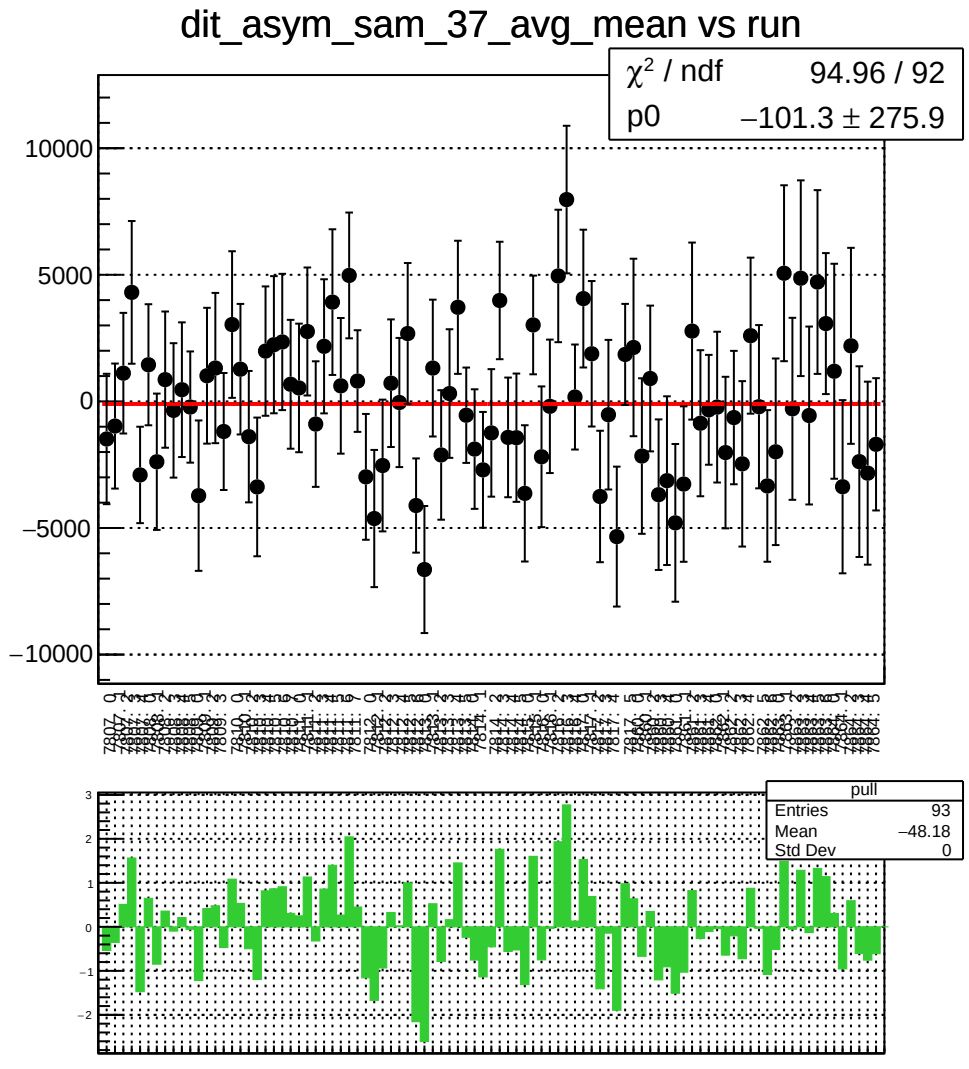

eigen_cor_asym_sam_37_avg_mean vs run
χ² / ndf 84.19 / 92
p0 −84.02 ± 264.9
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −155.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.006631
Std Dev 0.9514
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

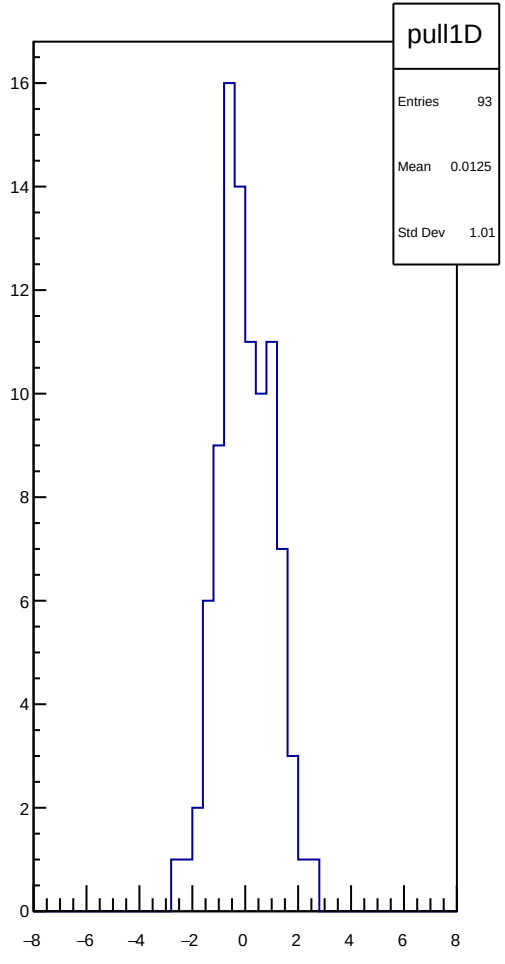

eigen_cor_asym_sam_37_avg_rms vs run
χ² / ndf 2.572e+04 / 92
p0 253.1 ± 0.1873
400
350
300
250
200

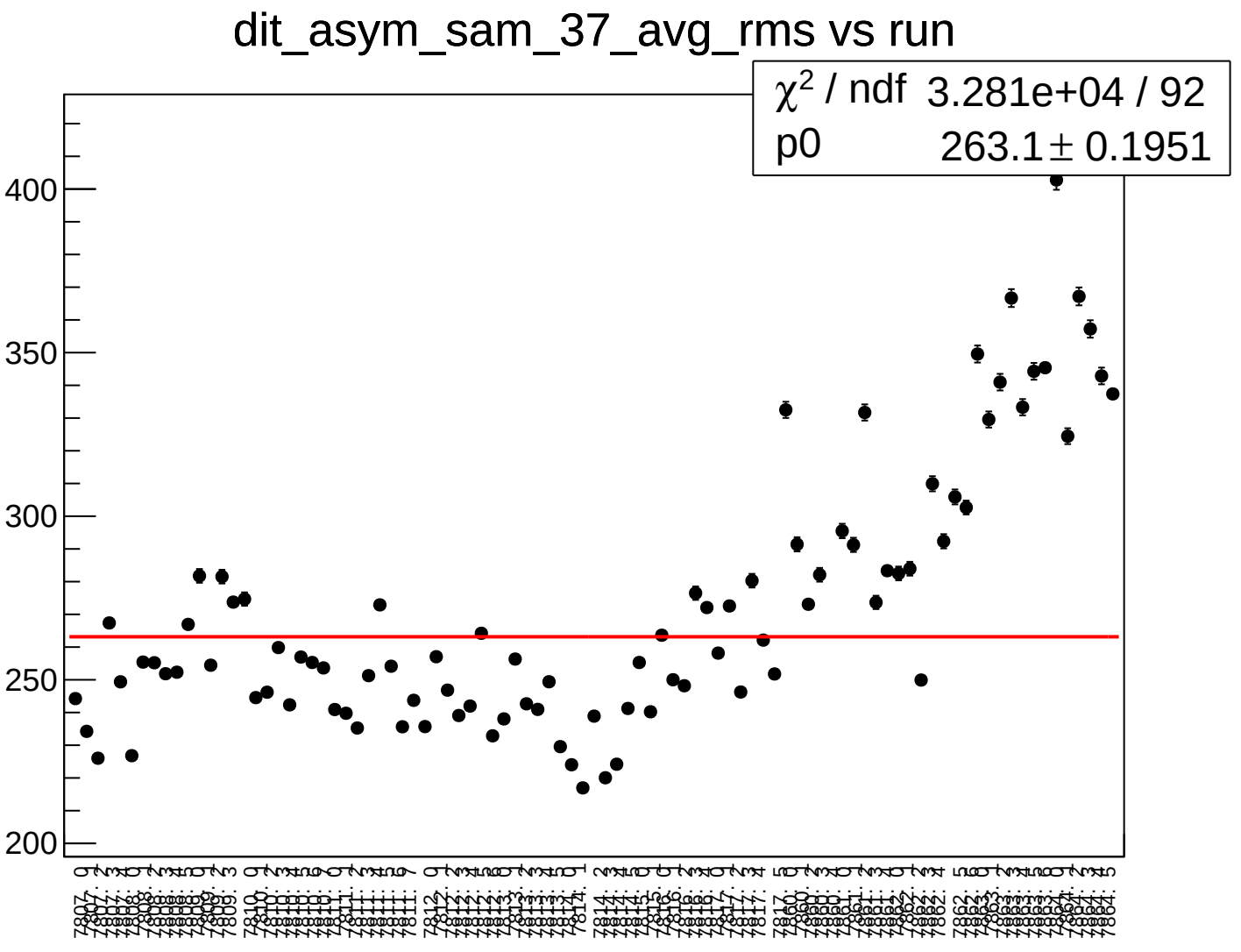

asym_sam_37_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 84.36 / 92
p0 −782.6 ± 2401
pull
Entries 93
Mean −24.97
Std Dev 9.018

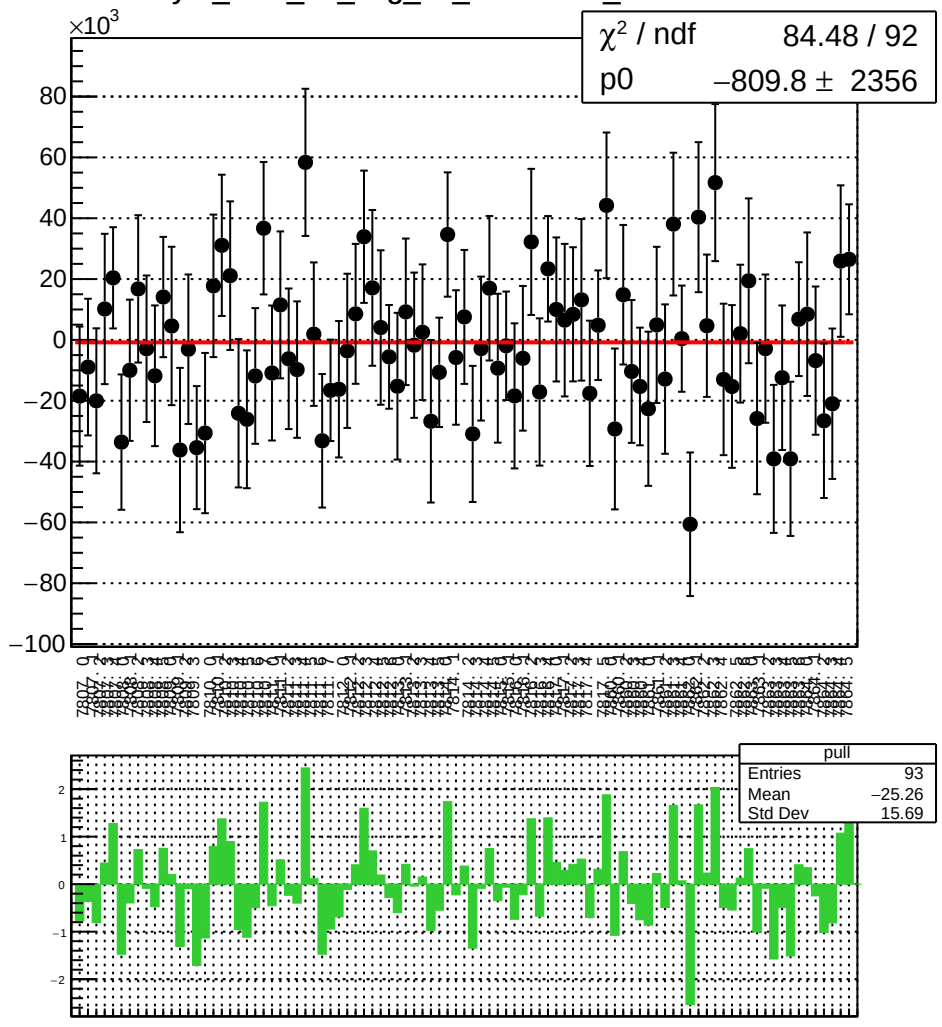

pull1D
Entries 93
Mean −0.01337
Std Dev 0.9523

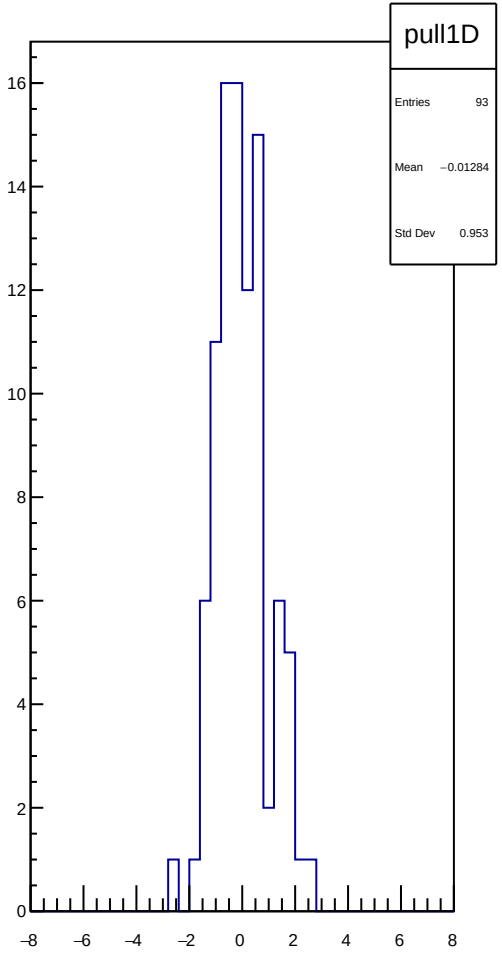

asym_sam_37_avg_eigen_cor_correction_rms vs run
χ² / ndf 6963 / 92
p0 2306 ± 1.698
2700
2600
2500
2400
2300
2200
2100
2000

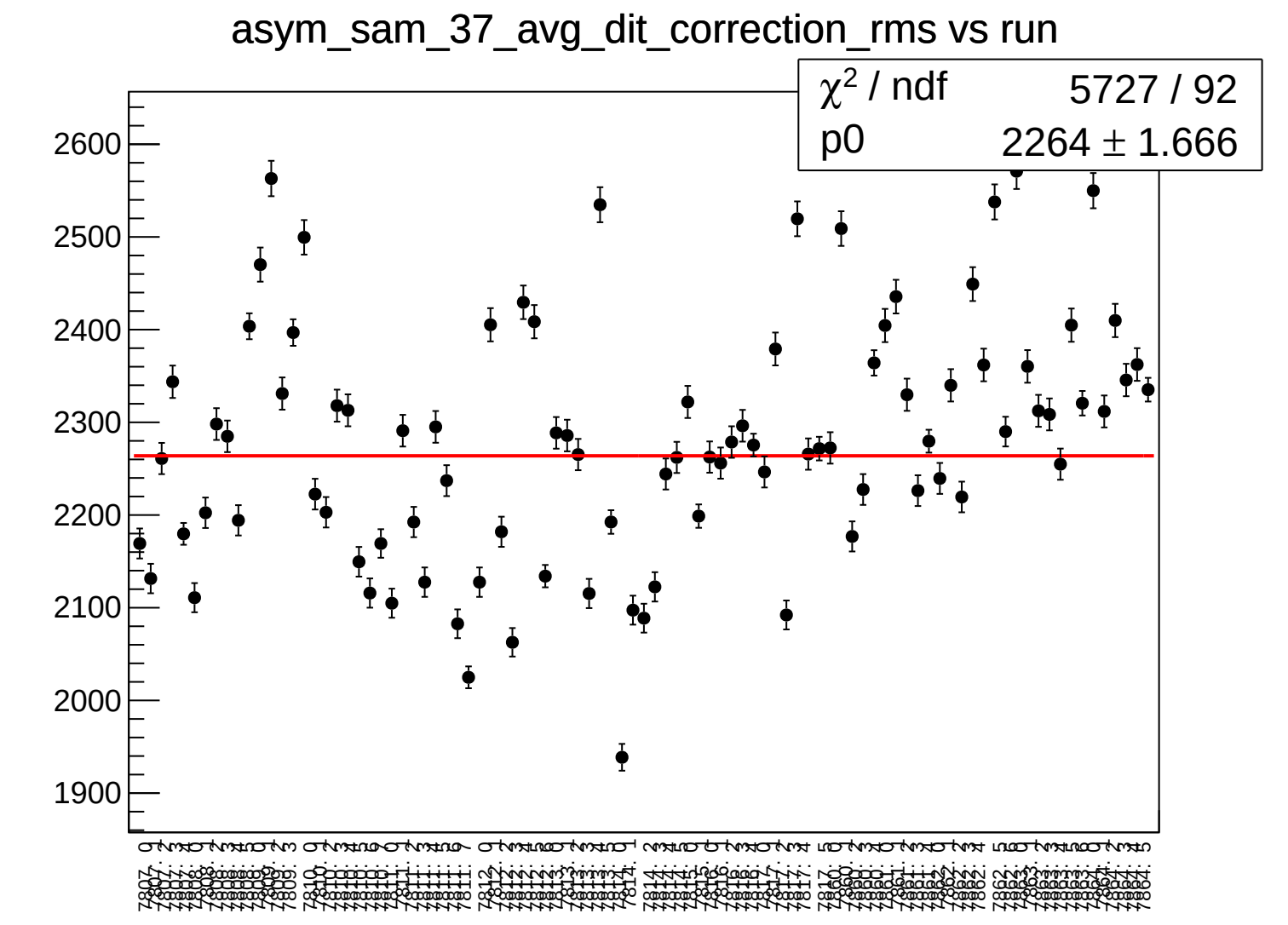

dit_asym_sam_37_avg_mean vs run
χ² / ndf 94.96 / 92
p0 −101.3 ± 275.9
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −48.18
Std Dev 0
3
2
1
0
−1
−2

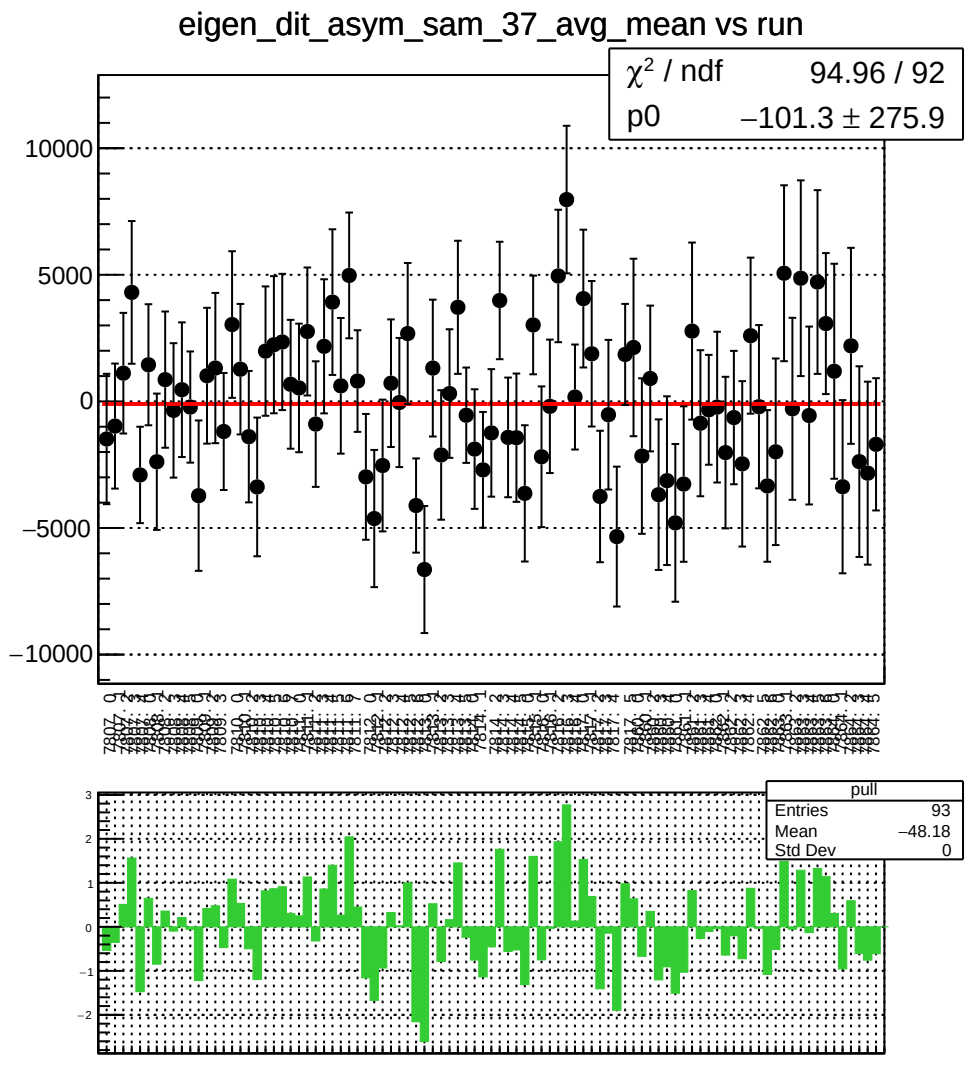

pull1D
Entries 93
Mean 0.0125
Std Dev 1.01
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

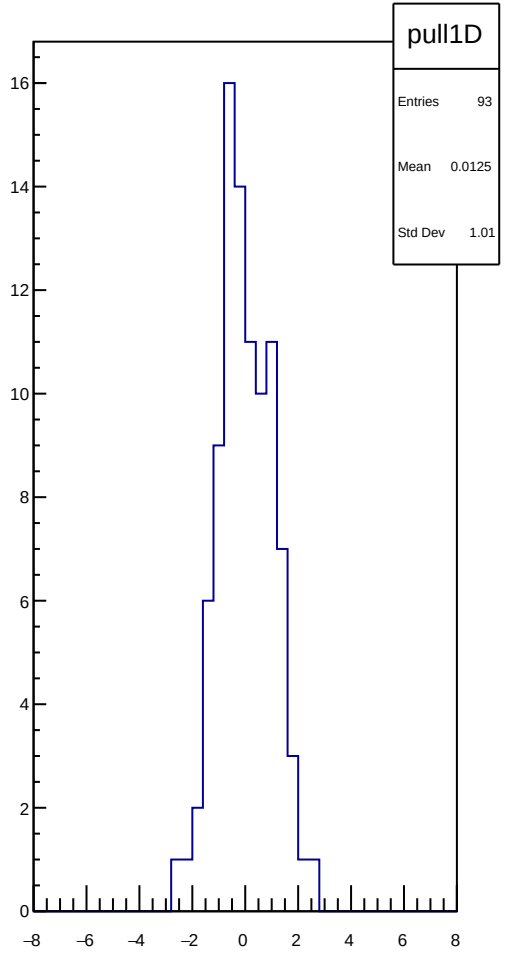

dit_asym_sam_37_avg_rms vs run
χ² / ndf 3.281e+04 / 92
p0 263.1 ± 0.1951
400
350
300
250
200

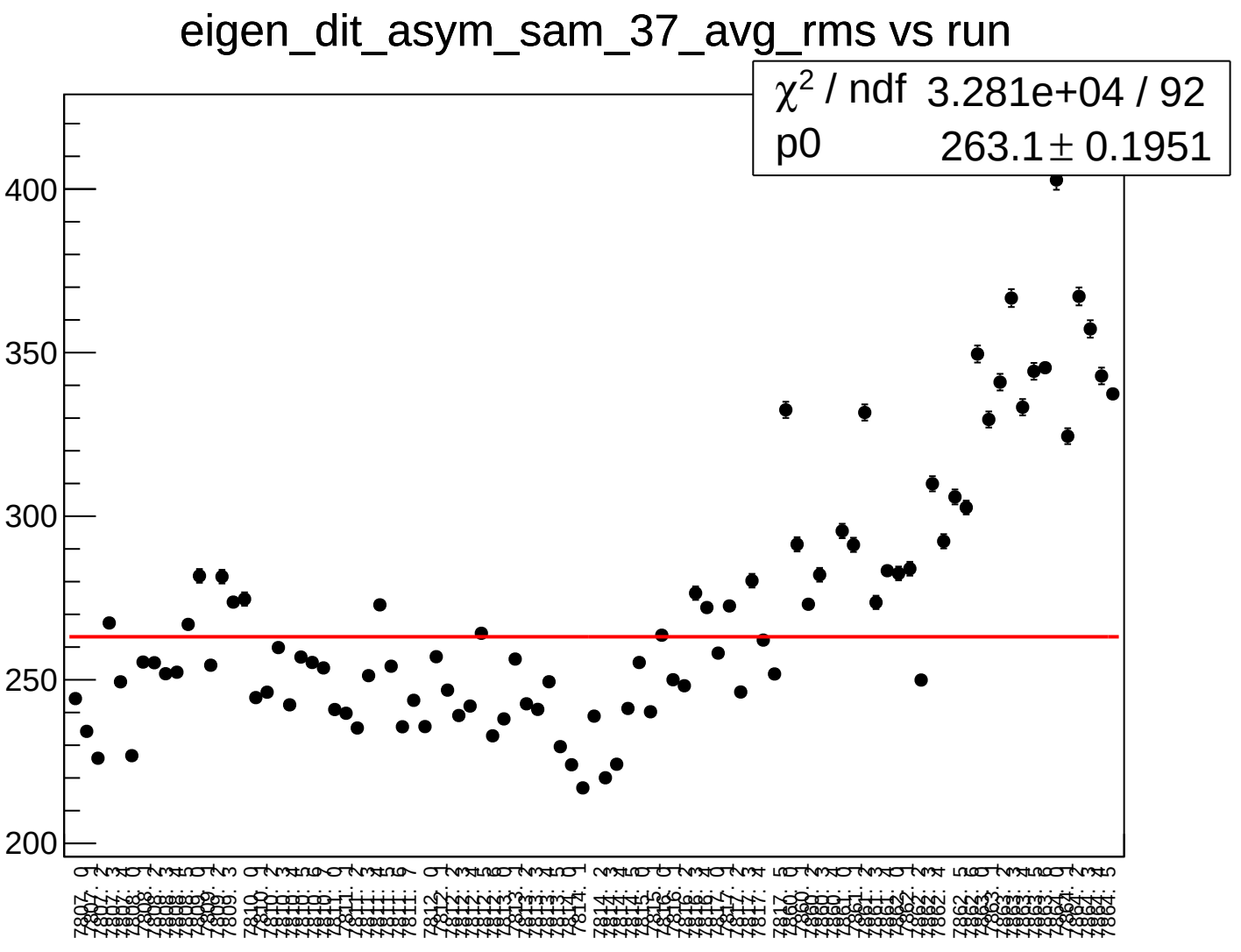

asym_sam_37_avg_dit_correction_mean vs run
×10^3
χ² / ndf 84.48 / 92
p0 −809.8 ± 2356
pull
Entries 93
Mean −25.26
Std Dev 15.69

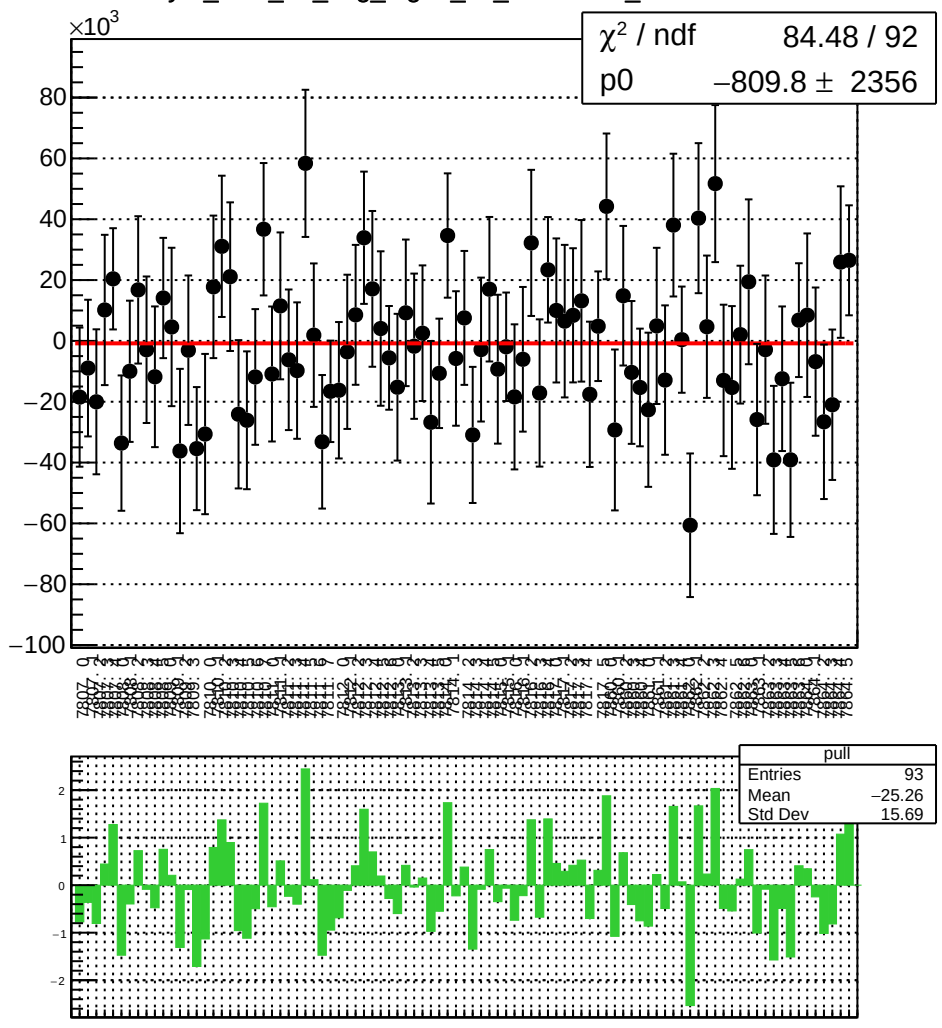

pull1D
Entries 93
Mean −0.01284
Std Dev 0.953

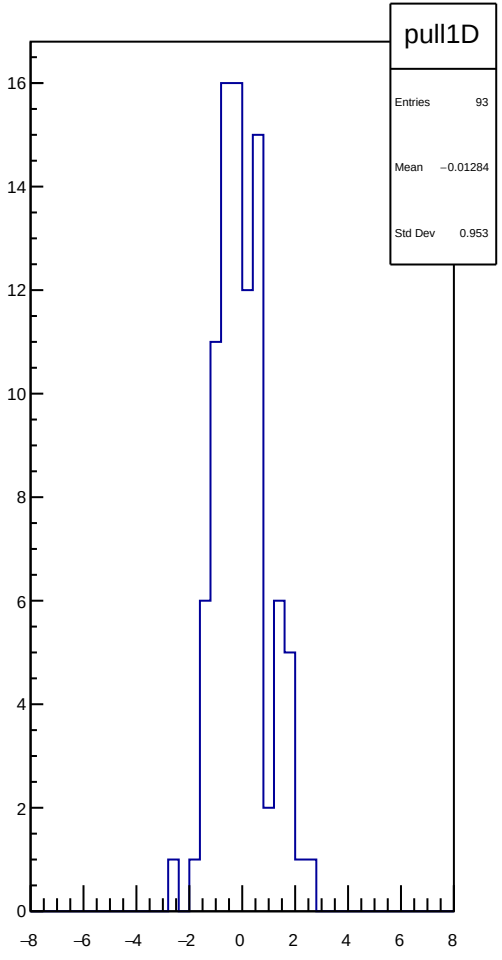

asym_sam_37_avg_dit_correction_rms vs run
χ² / ndf 5727 / 92
p0 2264 ± 1.666
2600
2500
2400
2300
2200
2100
2000
1900

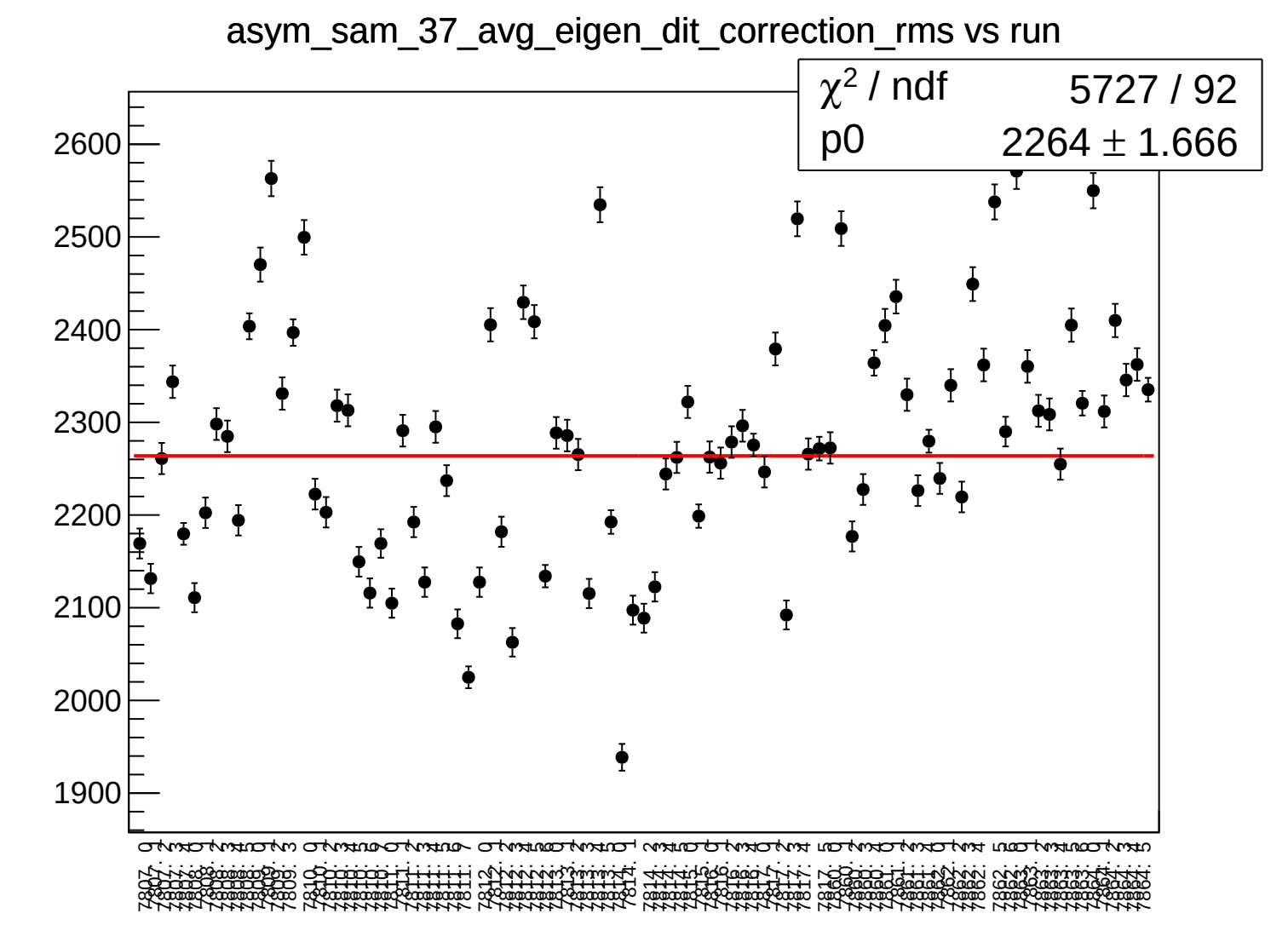

eigen_dit_asym_sam_37_avg_mean vs run
χ² / ndf 94.96 / 92
p0 −101.3 ± 275.9
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −48.18
Std Dev 0
3
2
1
0
−1
−2

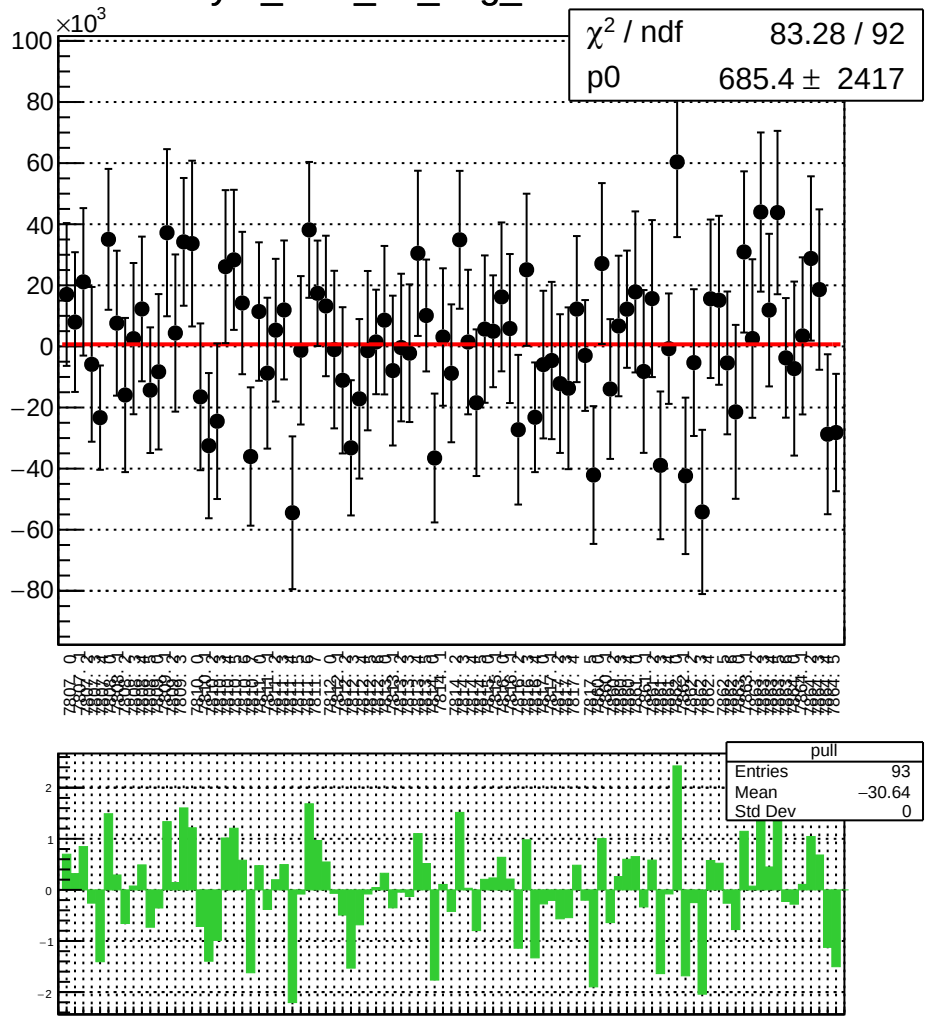

pull1D
Entries 93
Mean 0.0125
Std Dev 1.01
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

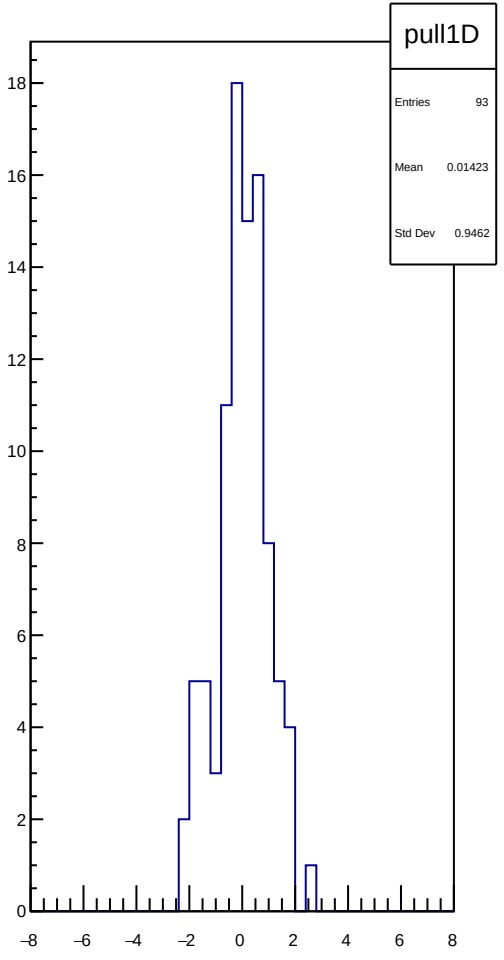

eigen_dit_asym_sam_37_avg_rms vs run
χ² / ndf 3.281e+04 / 92
p0 263.1 ± 0.1951
400
350
300
250
200

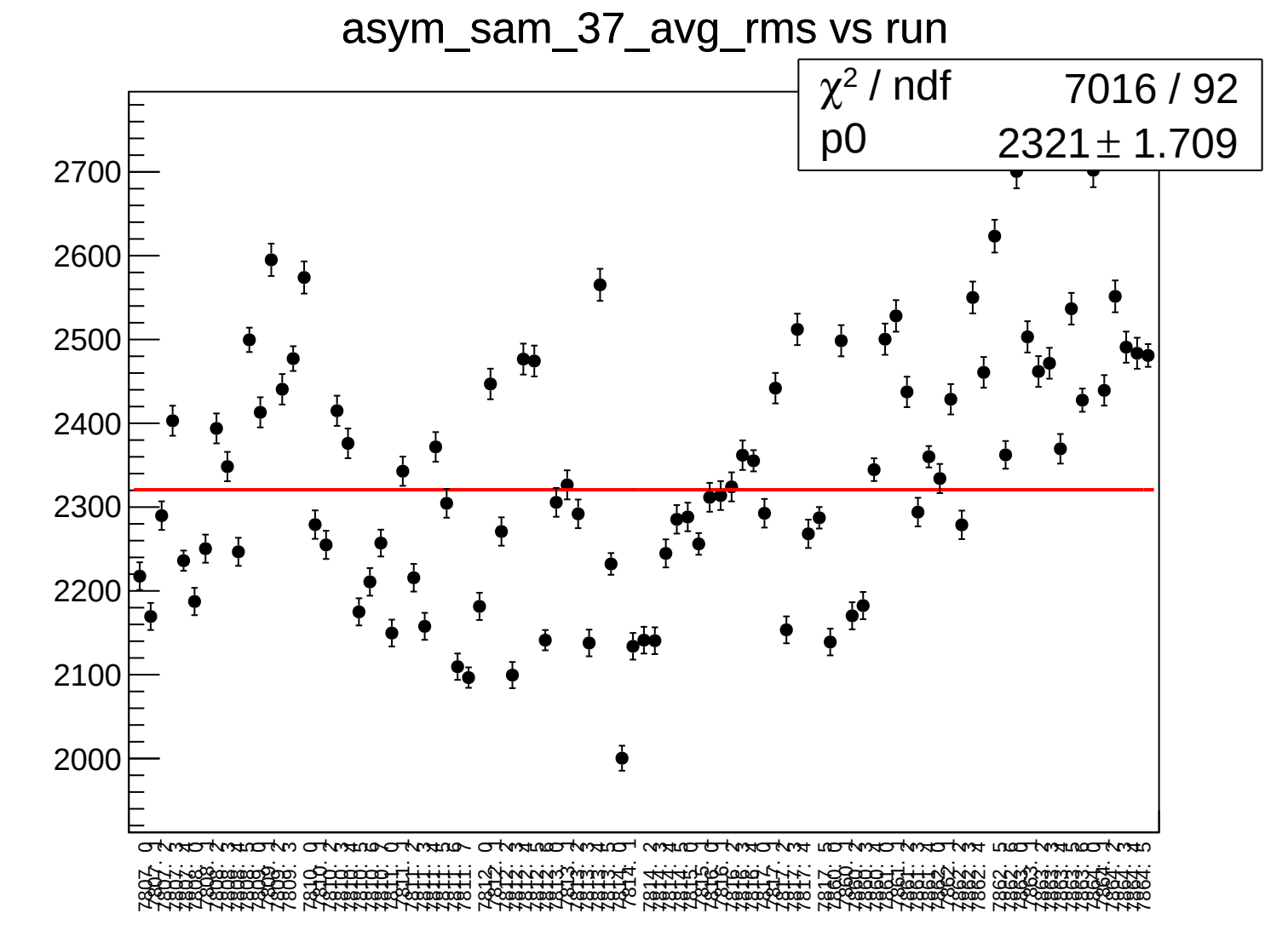

asym_sam_37_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 84.48 / 92
p0 −809.8 ± 2356
pull
Entries 93
Mean −25.26
Std Dev 15.69

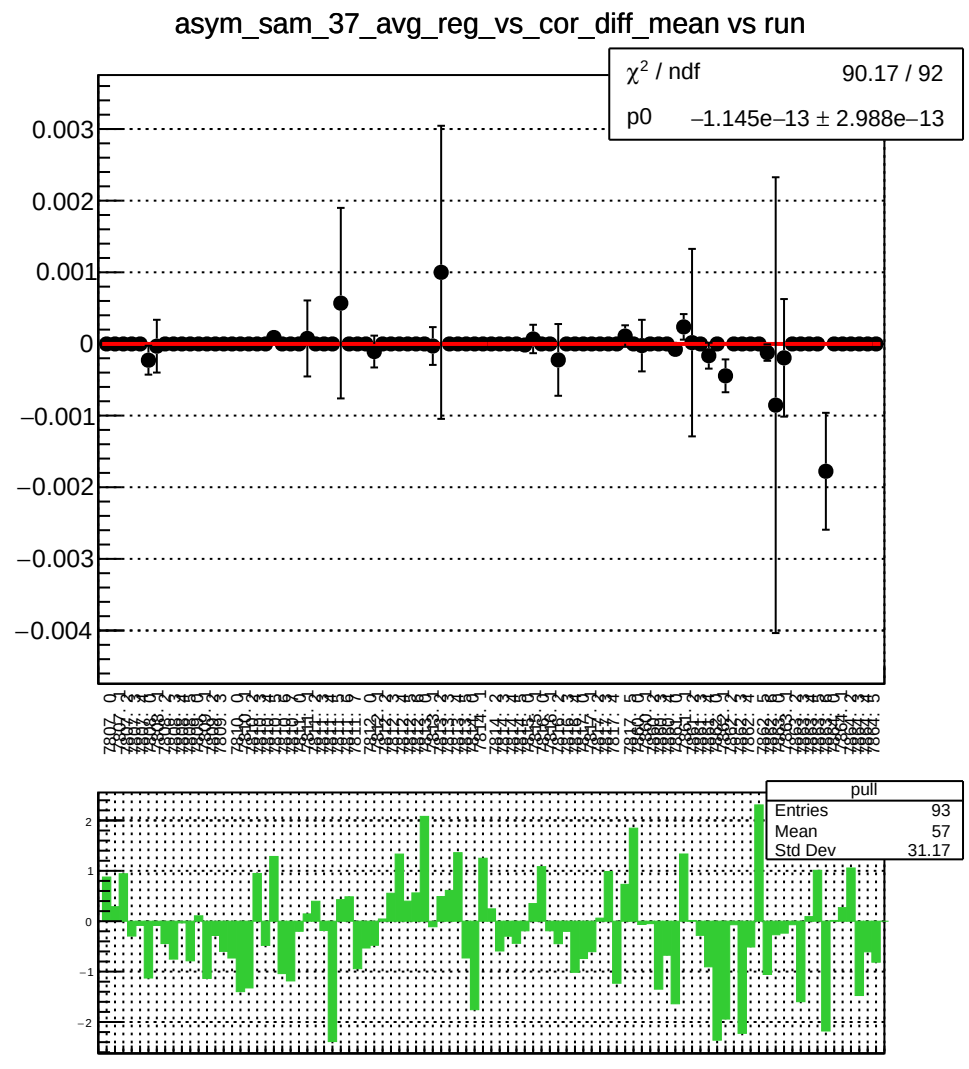

pull1D
Entries 93
Mean −0.01284
Std Dev 0.953

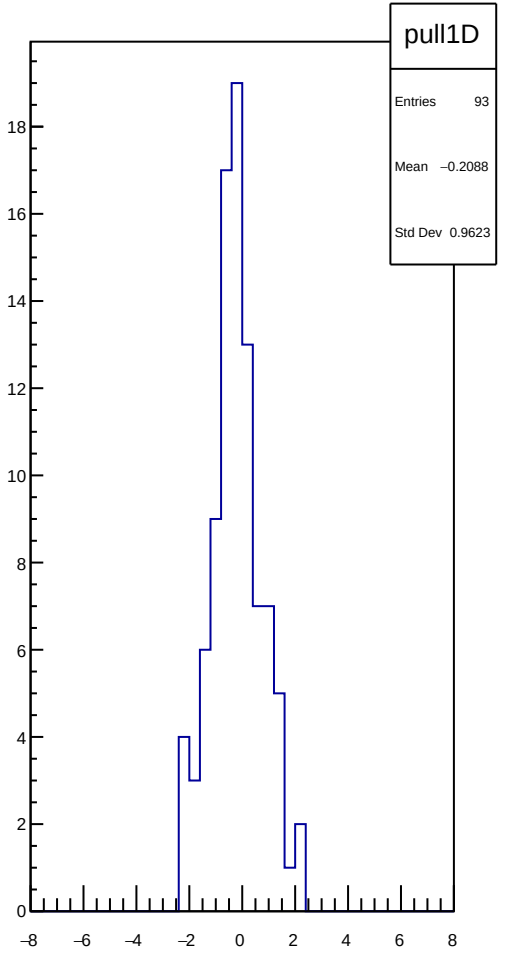

asym_sam_37_avg_eigen_dit_correction_rms vs run
χ² / ndf 5727 / 92
p0 2264 ± 1.666
2600
2500
2400
2300
2200
2100
2000
1900

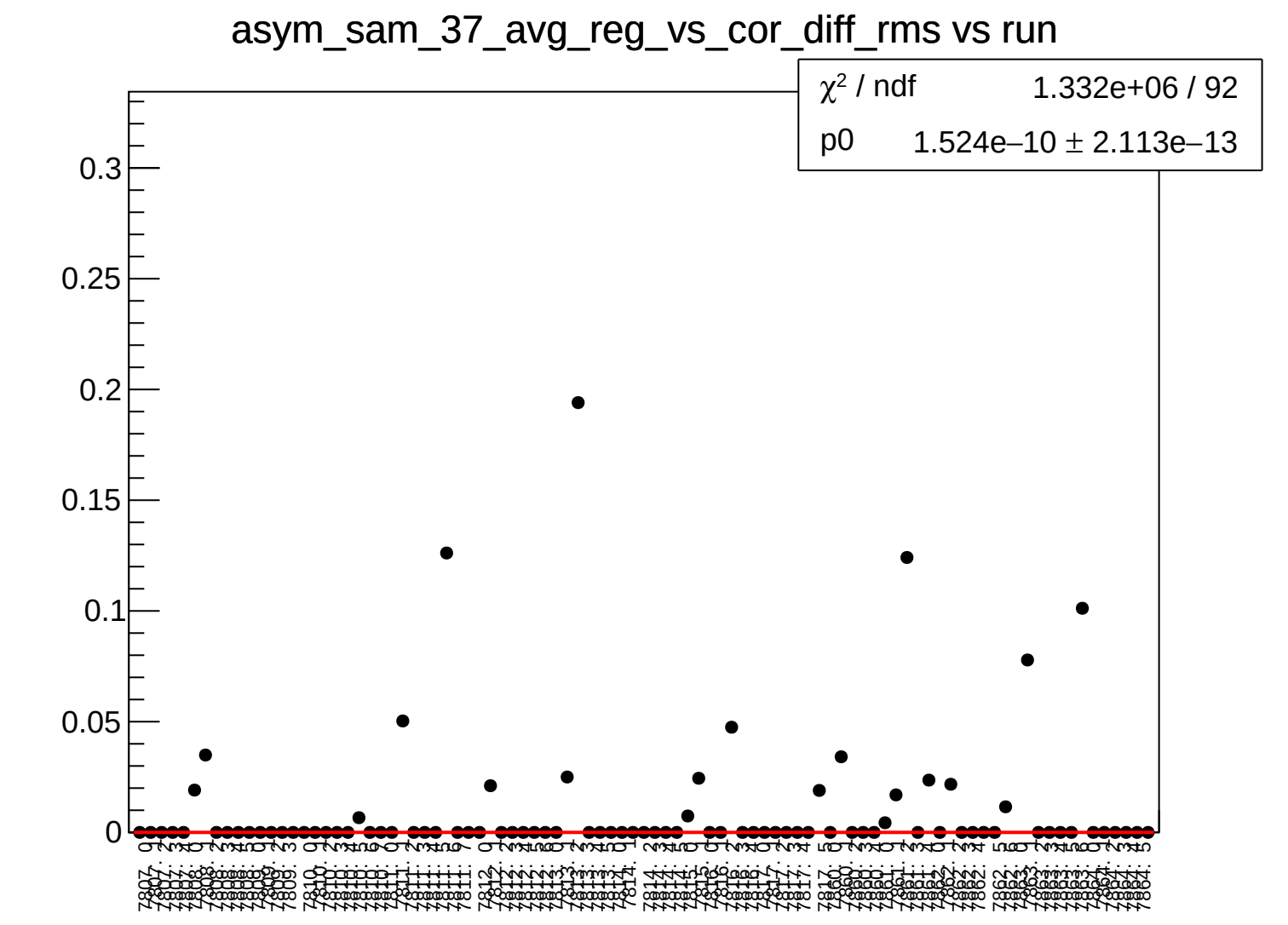

asym_sam_37_avg_mean vs run
χ² / ndf 83.28 / 92
p0 685.4 ± 2417
×10³
pull
Entries 93
Mean −30.64
Std Dev 0

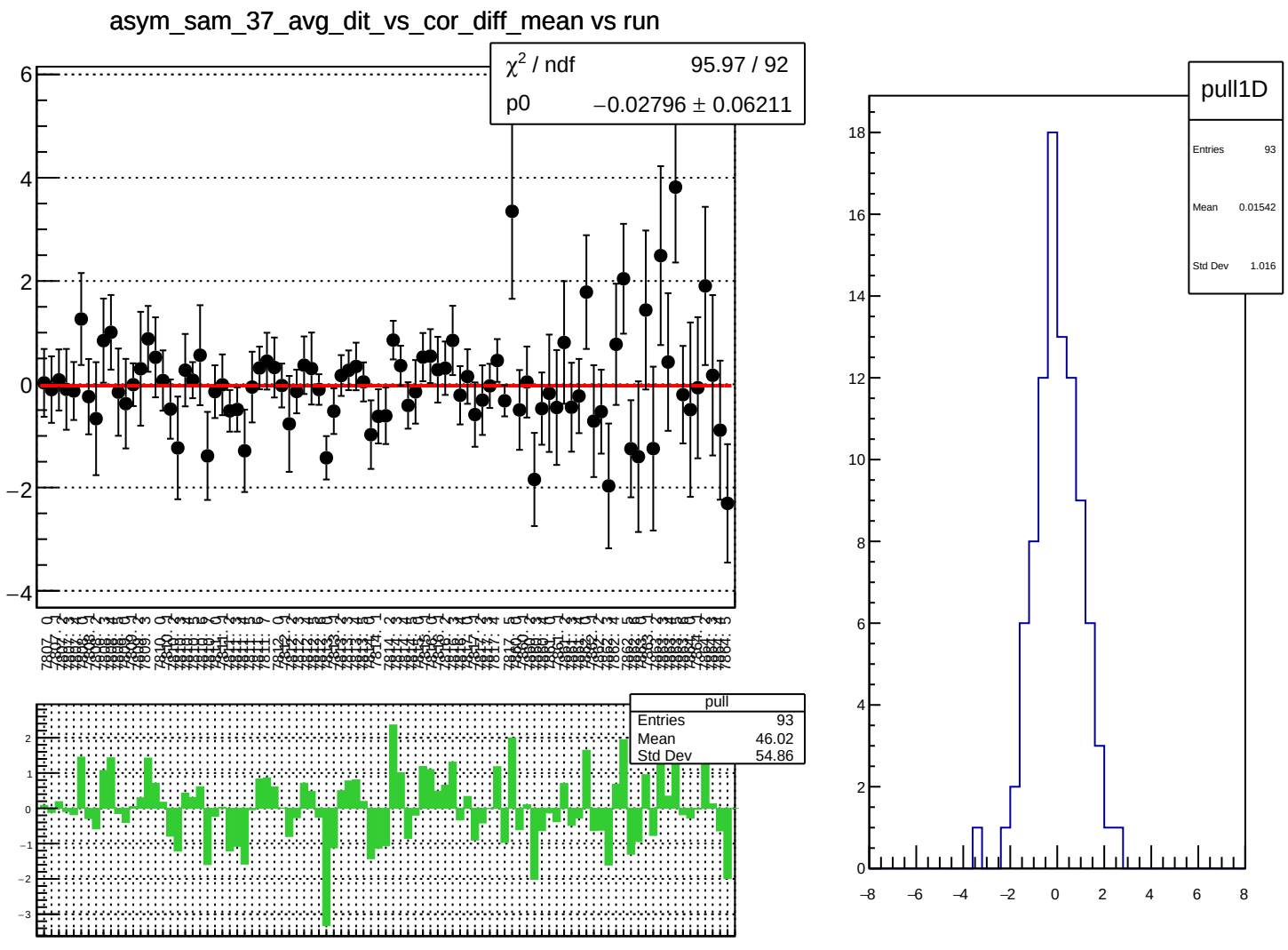

pull1D
Entries 93
Mean 0.01423
Std Dev 0.9462

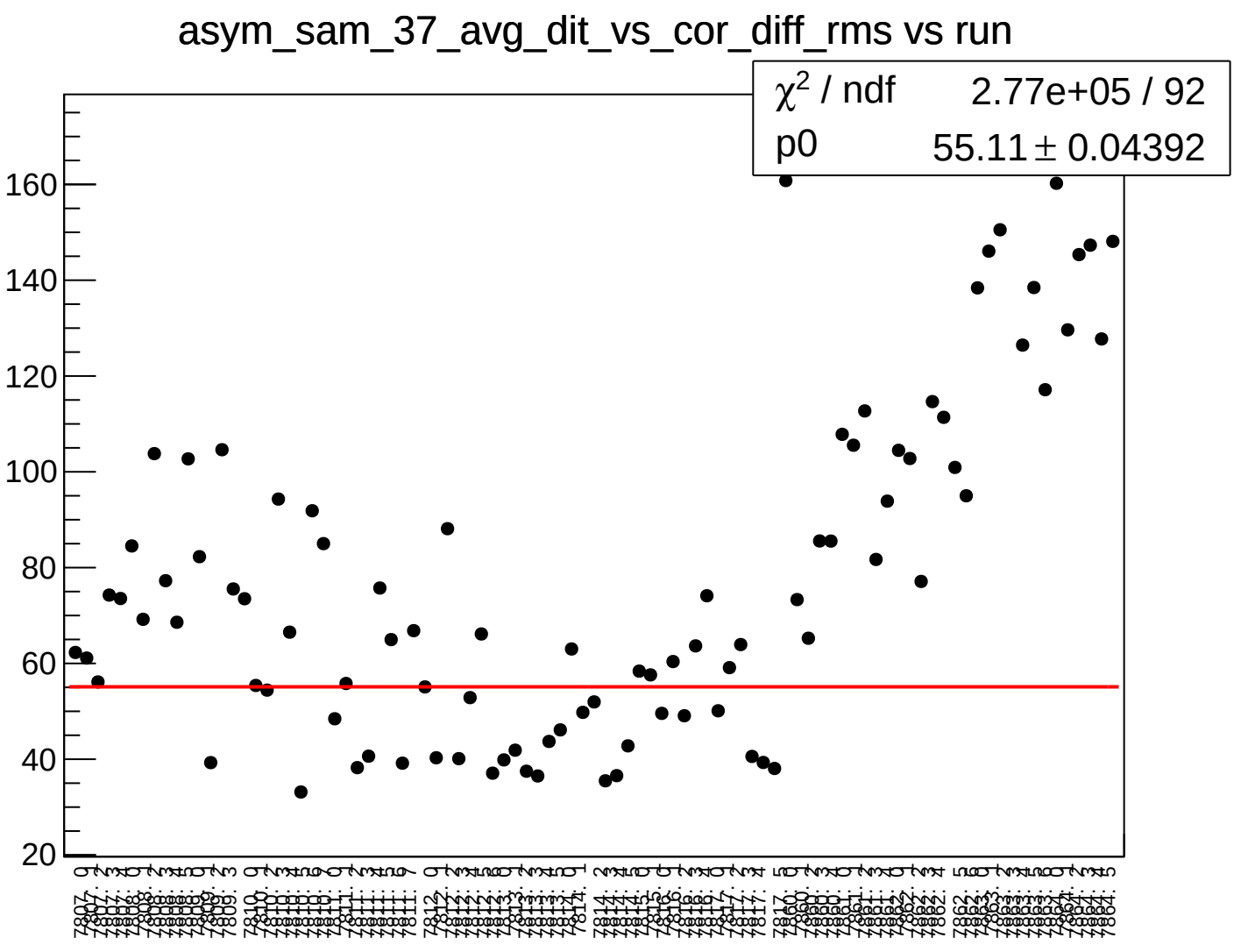

asym_sam_37_avg_rms vs run
χ² / ndf 7016 / 92
p0 2321 ± 1.709
2700
2600
2500
2400
2300
2200
2100
2000

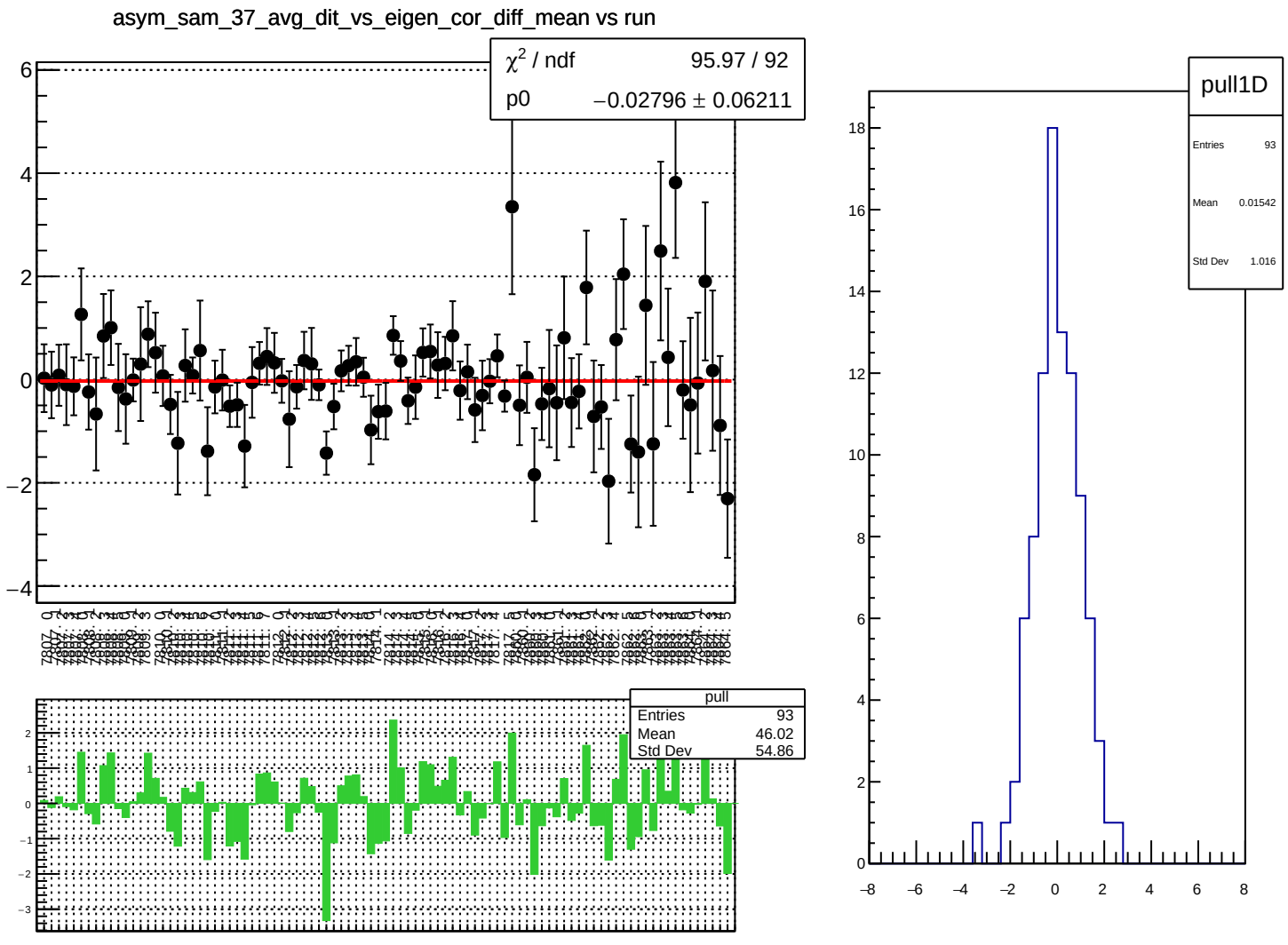

asym_sam_37_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 90.17 / 92
p0 −1.145e−13 ± 2.988e−13
0.003
0.002
0.001
0
−0.001
−0.002
−0.003
−0.004
pull
Entries 93
Mean 57
Std Dev 31.17
2
1
0
−1
−2

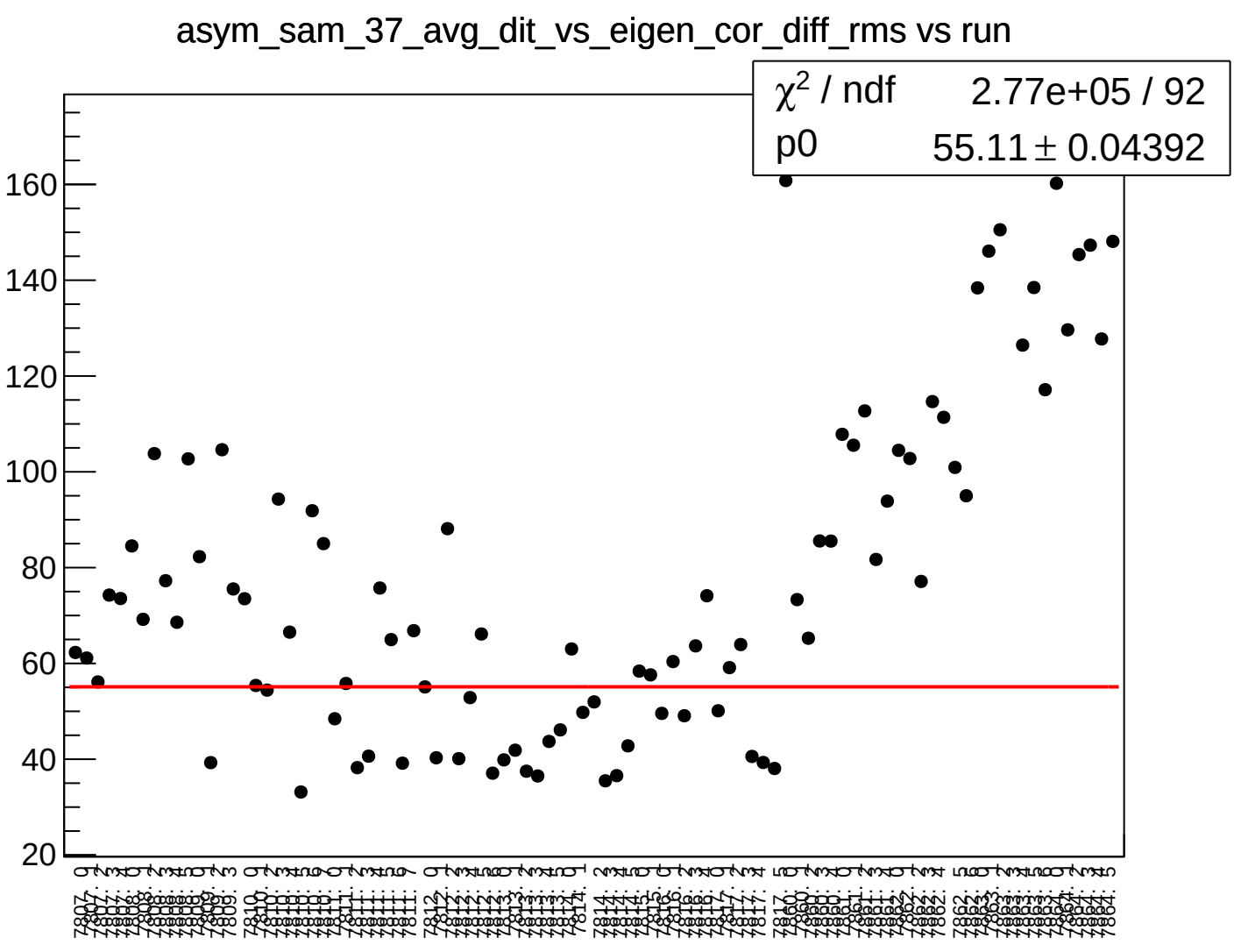

pull1D
Entries 93
Mean −0.2088
Std Dev 0.9623
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

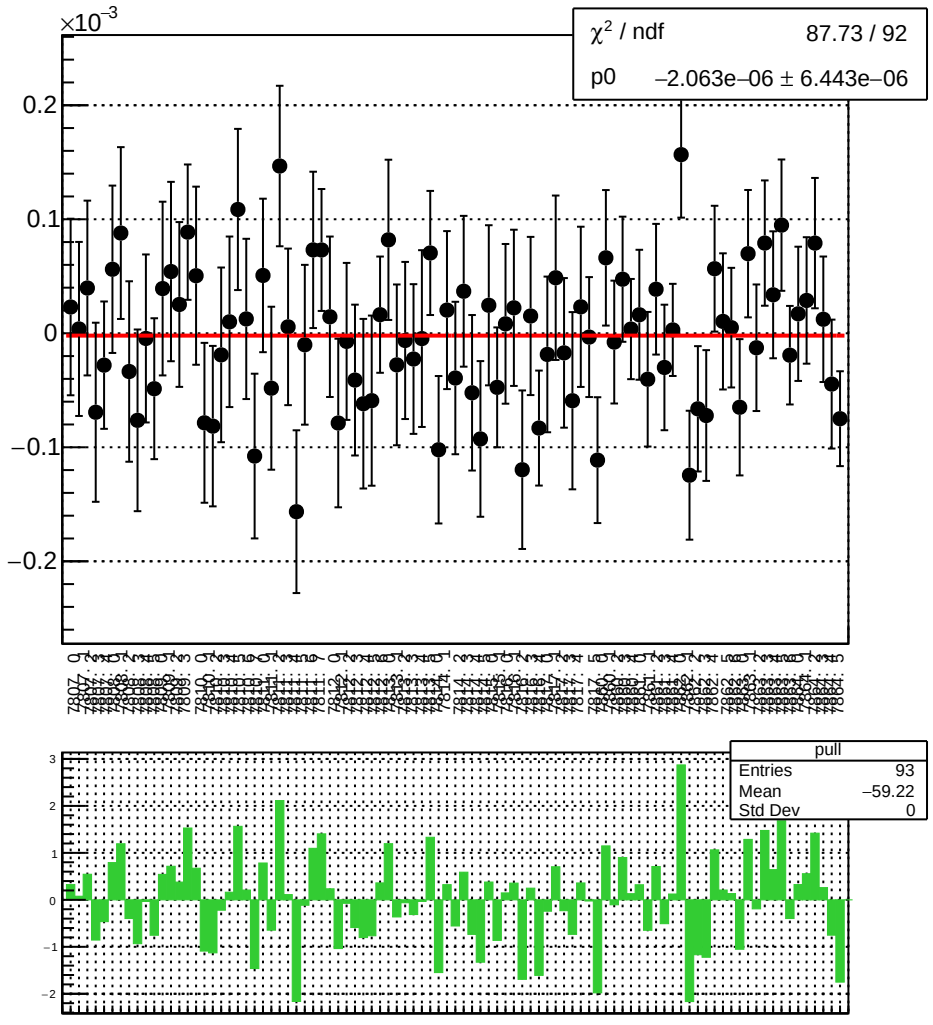

asym_sam_37_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.332e+06 / 92
p0 1.524e−10 ± 2.113e−13
0.3
0.25
0.2
0.15
0.1
0.05
0

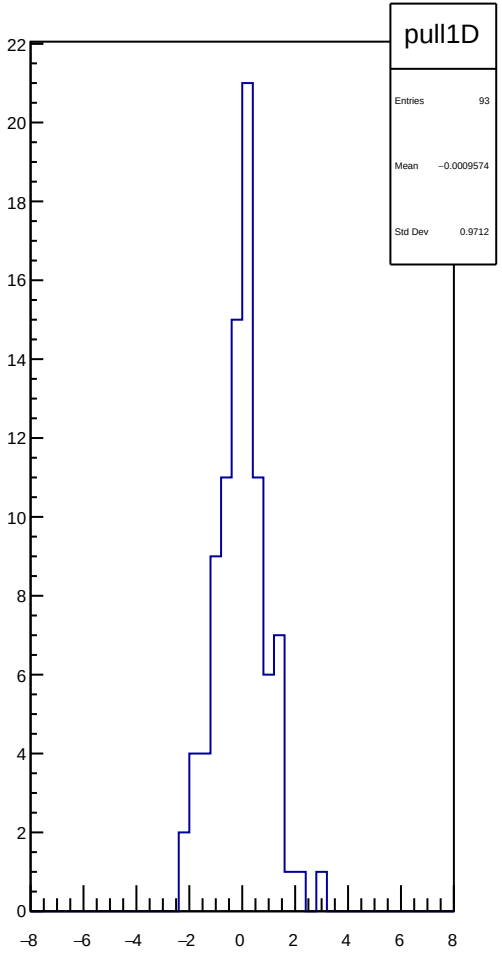

asym_sam_37_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 95.97 / 92
p0 −0.02796 ± 0.06211
pull
Entries 93
Mean 46.02
Std Dev 54.86
pull1D
Entries 93
Mean 0.01542
Std Dev 1.016

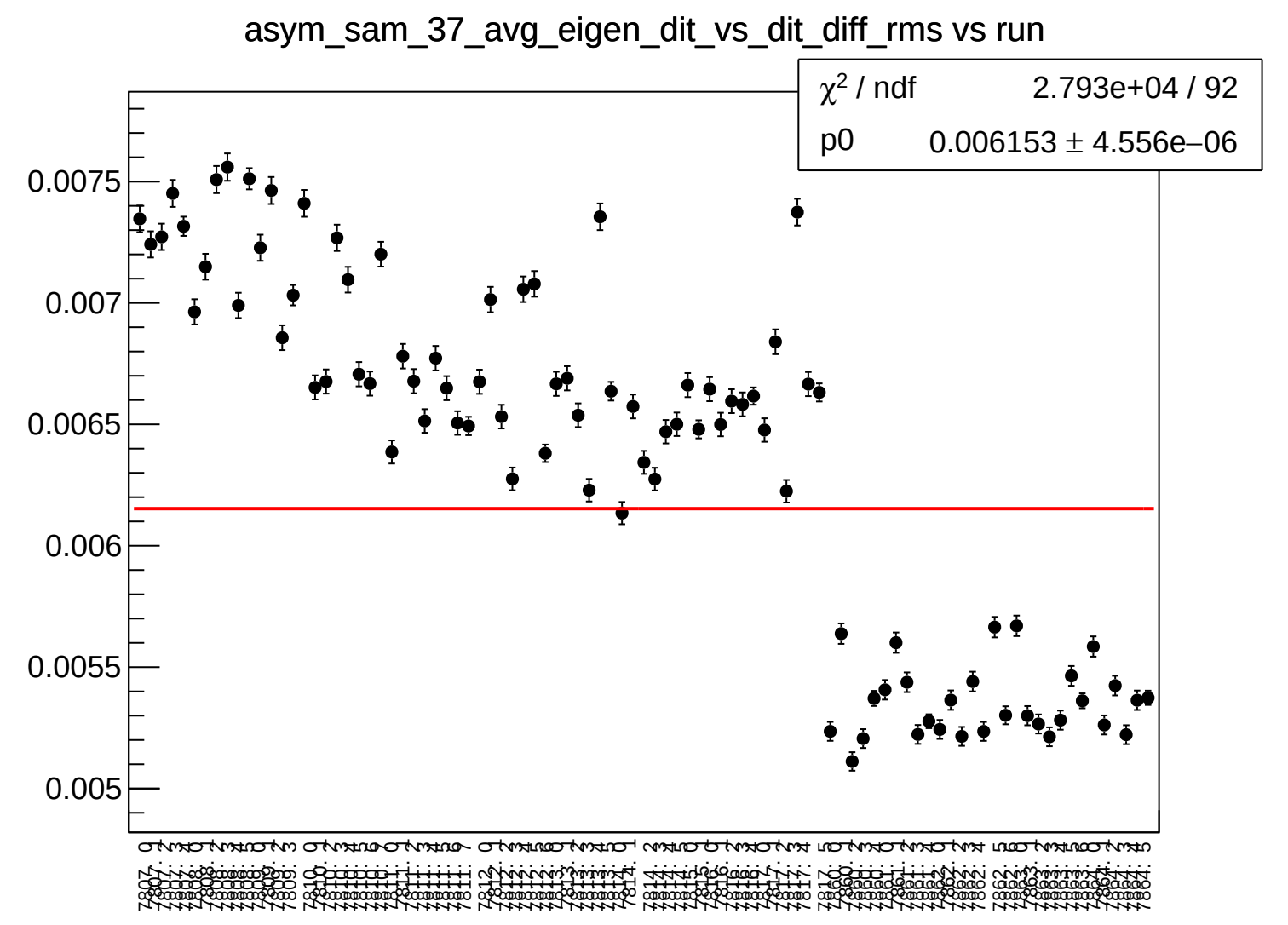

asym_sam_37_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.77e+05 / 92
p0 55.11 ± 0.04392
160
140
120
100
80
60
40
20

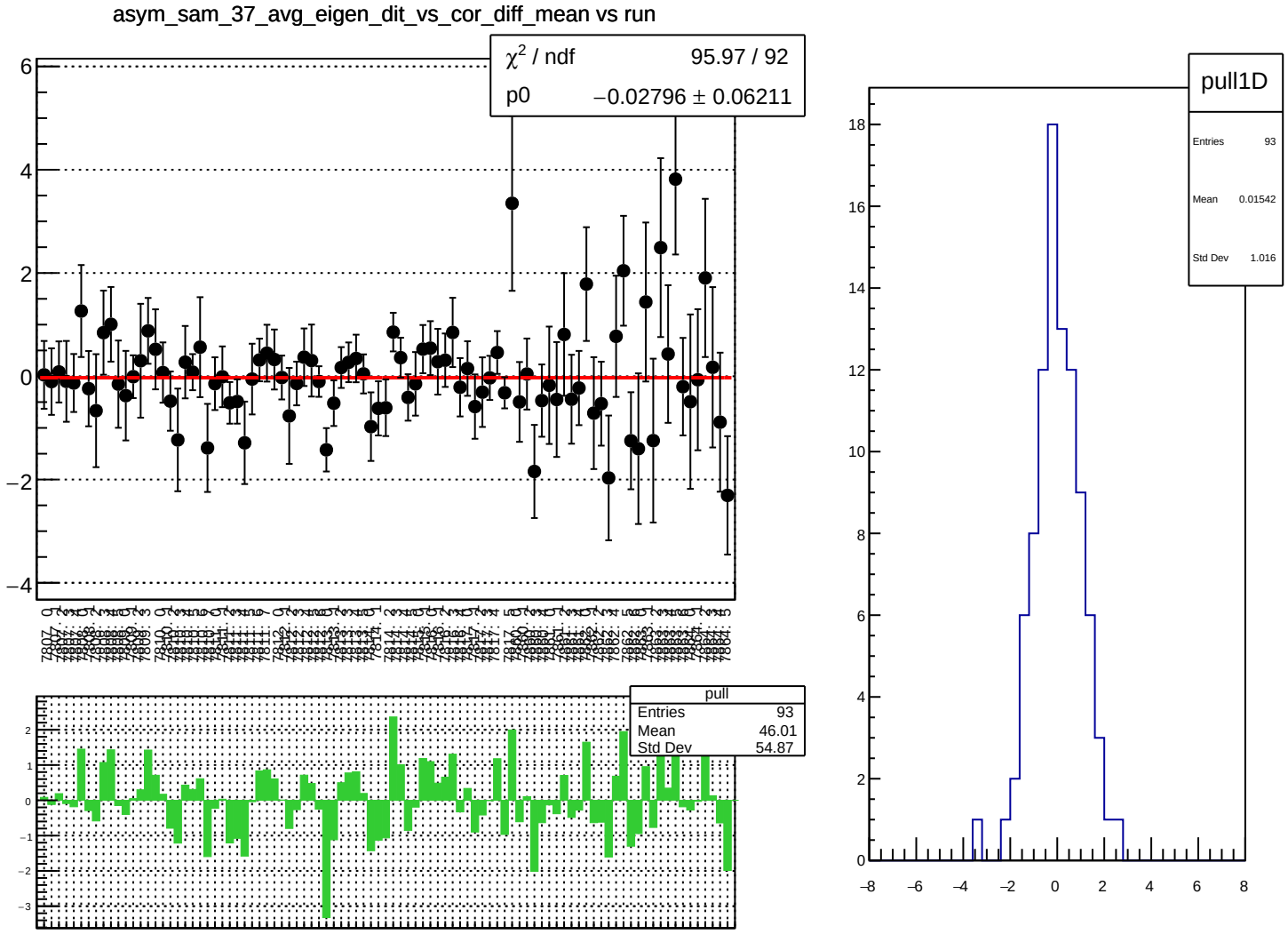

asym_sam_37_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.97 / 92
p0 −0.02796 ± 0.06211
pull
Entries 93
Mean 46.02
Std Dev 54.86
pull1D
Entries 93
Mean 0.01542
Std Dev 1.016

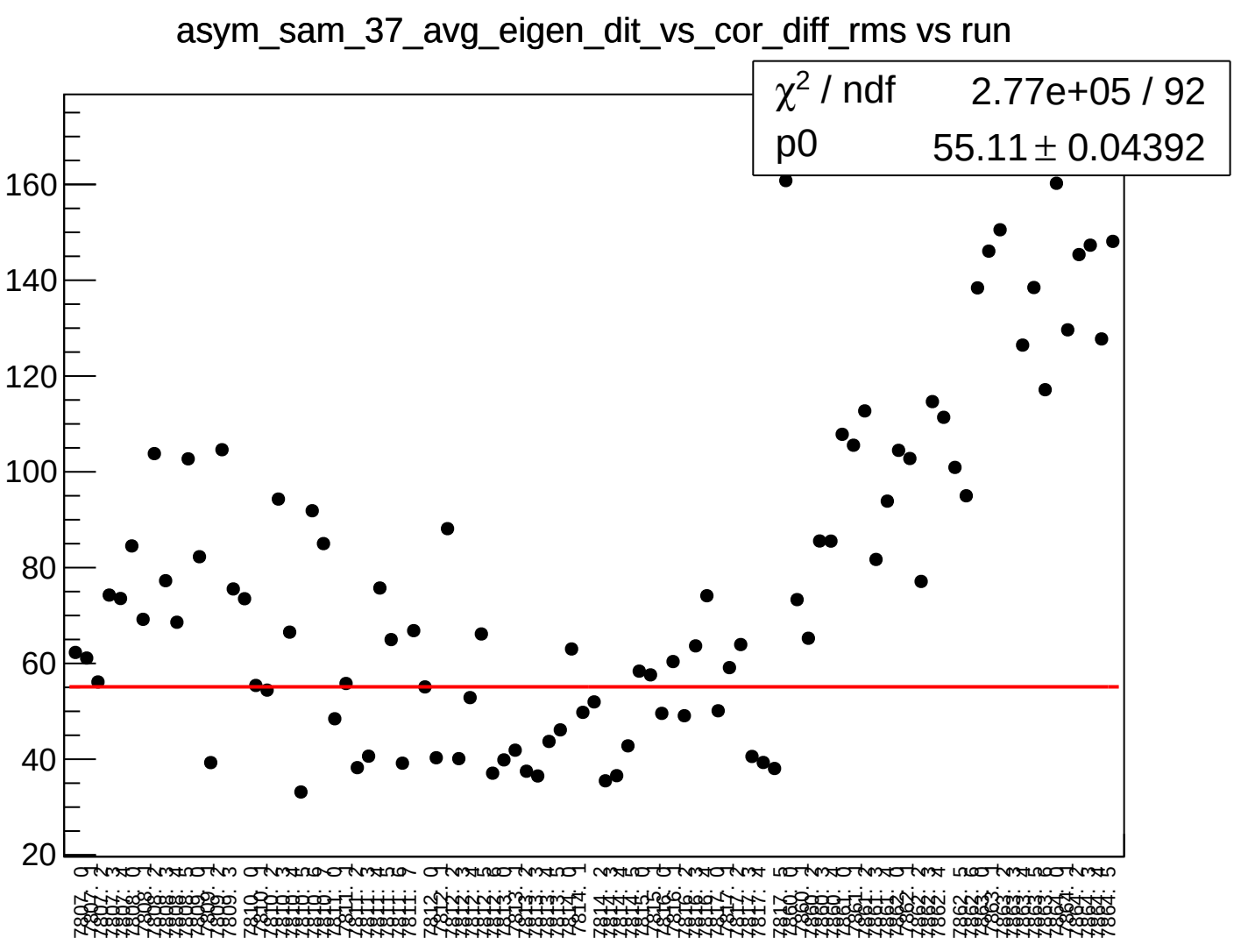

asym_sam_37_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.77e+05 / 92
p0 55.11 ± 0.04392
160
140
120
100
80
60
40
20

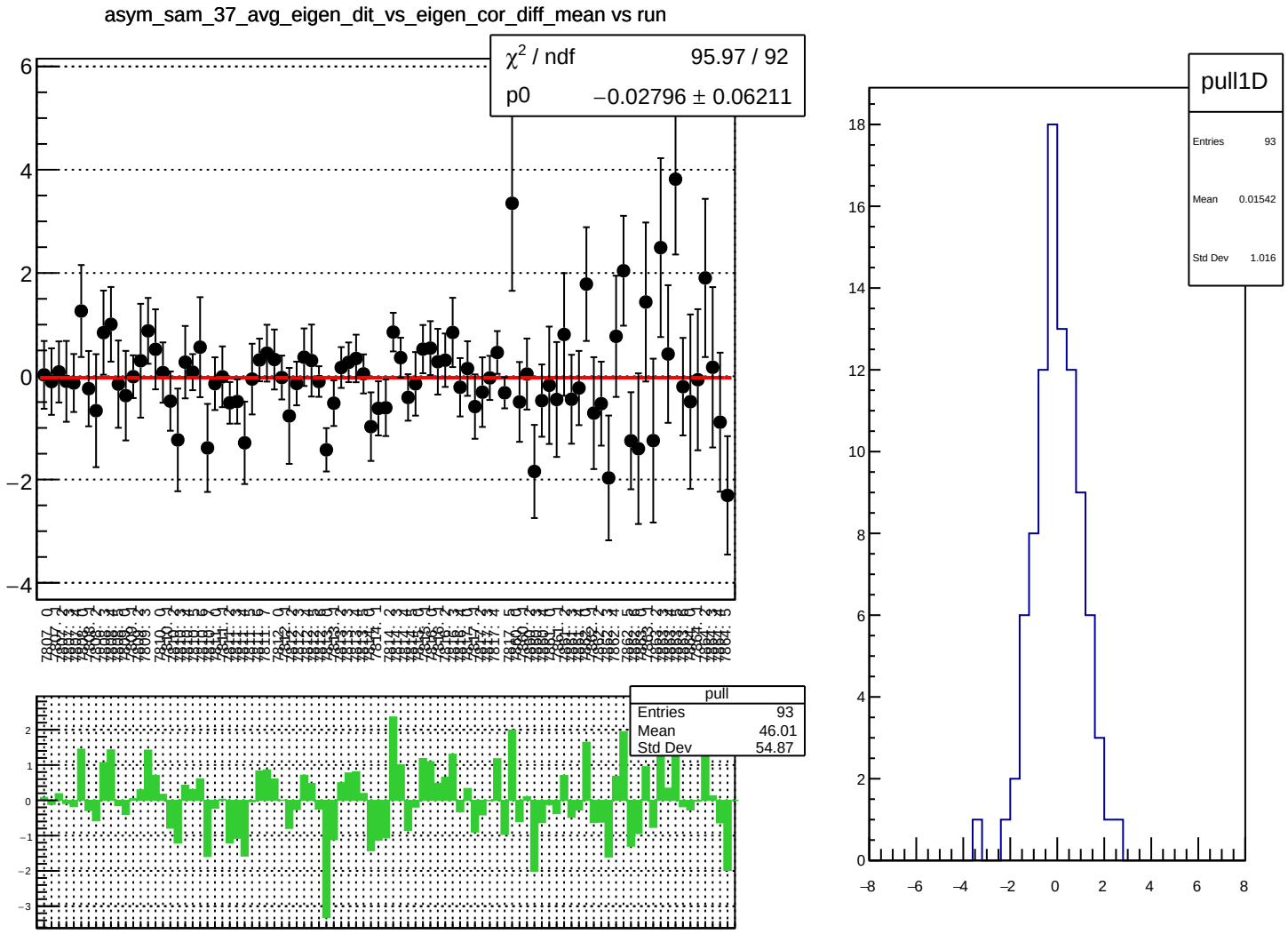

asym_sam_37_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.73 / 92
p0 −2.063e−06 ± 6.443e−06
pull
Entries 93
Mean −59.22
Std Dev 0

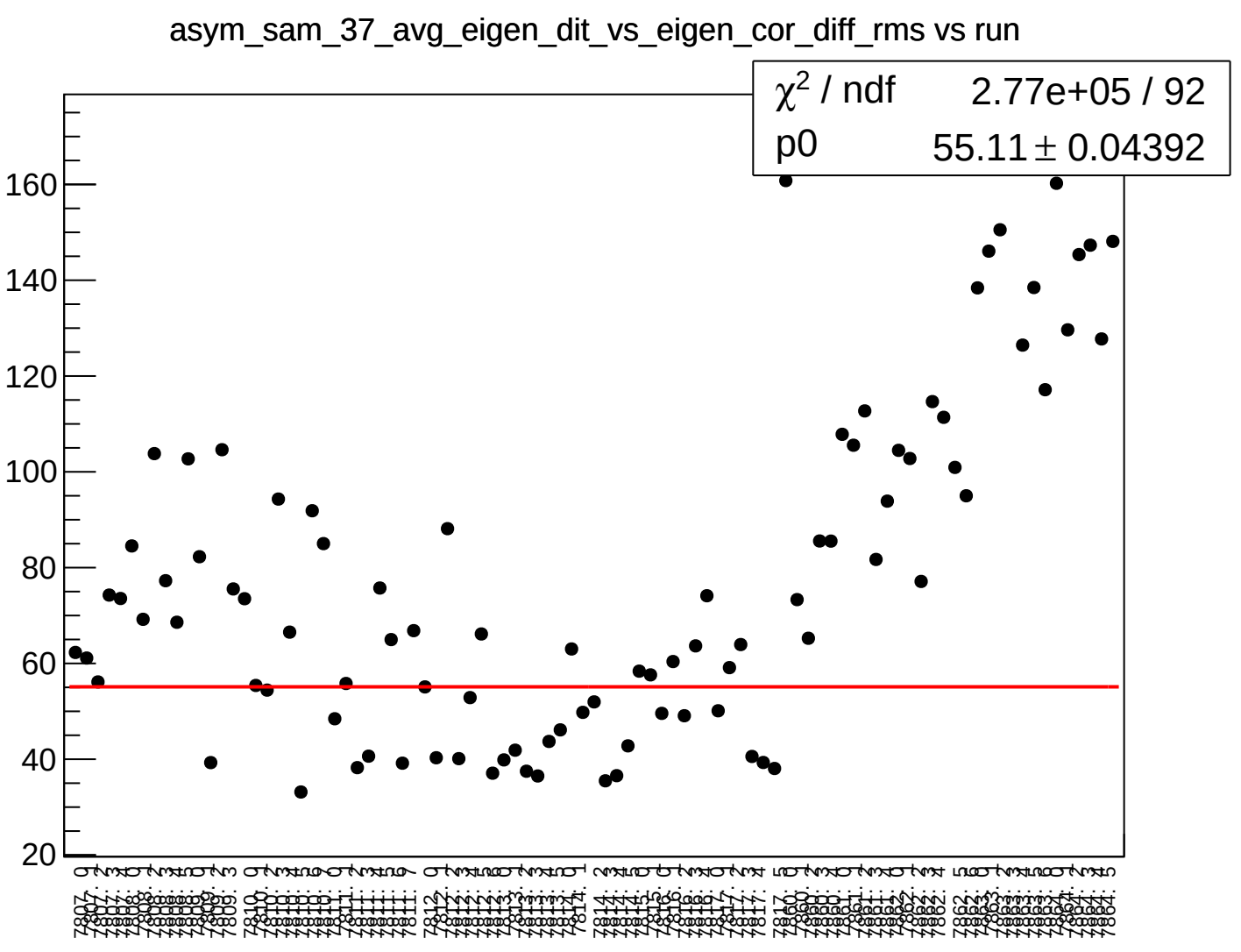

pull1D
Entries 93
Mean −0.0009574
Std Dev 0.9712

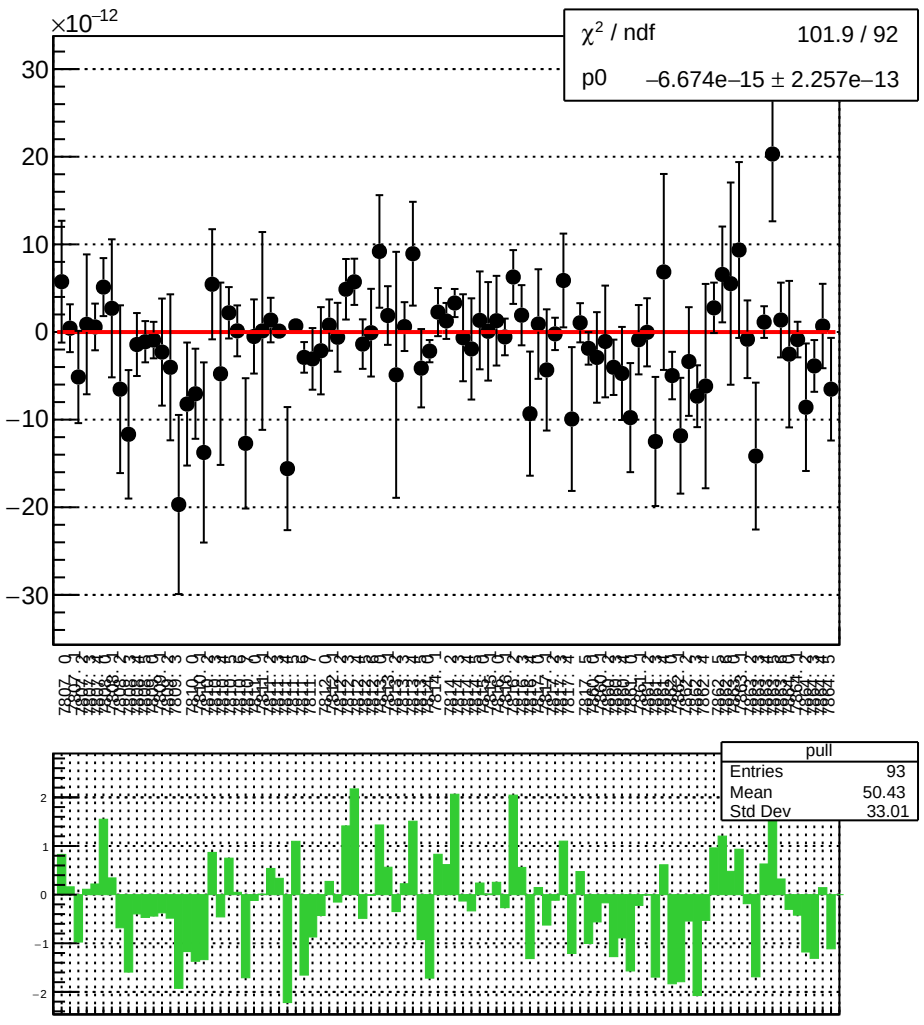

asym_sam_37_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.793e+04 / 92
p0 0.006153 ± 4.556e−06
0.0075
0.007
0.0065
0.006
0.0055
0.005

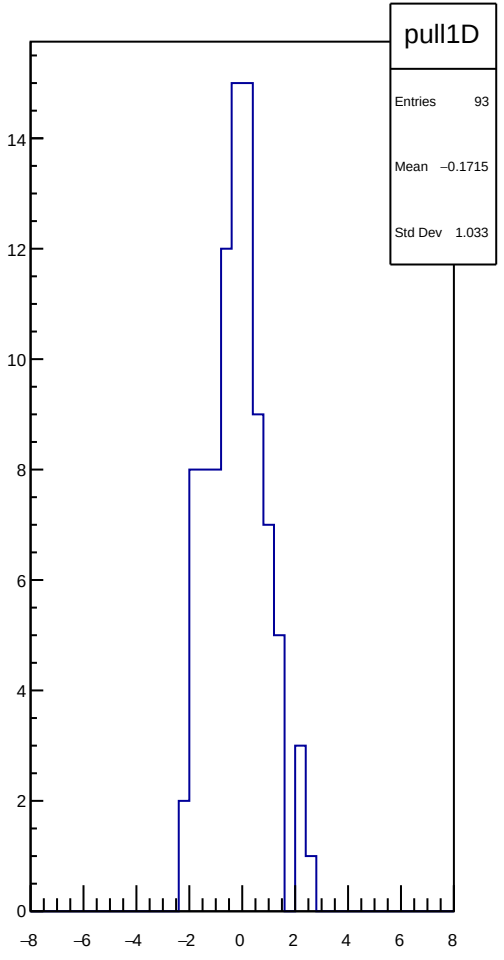

asym_sam_37_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.97 / 92
p0 −0.02796 ± 0.06211
pull
Entries 93
Mean 46.01
Std Dev 54.87
pull1D
Entries 93
Mean 0.01542
Std Dev 1.016

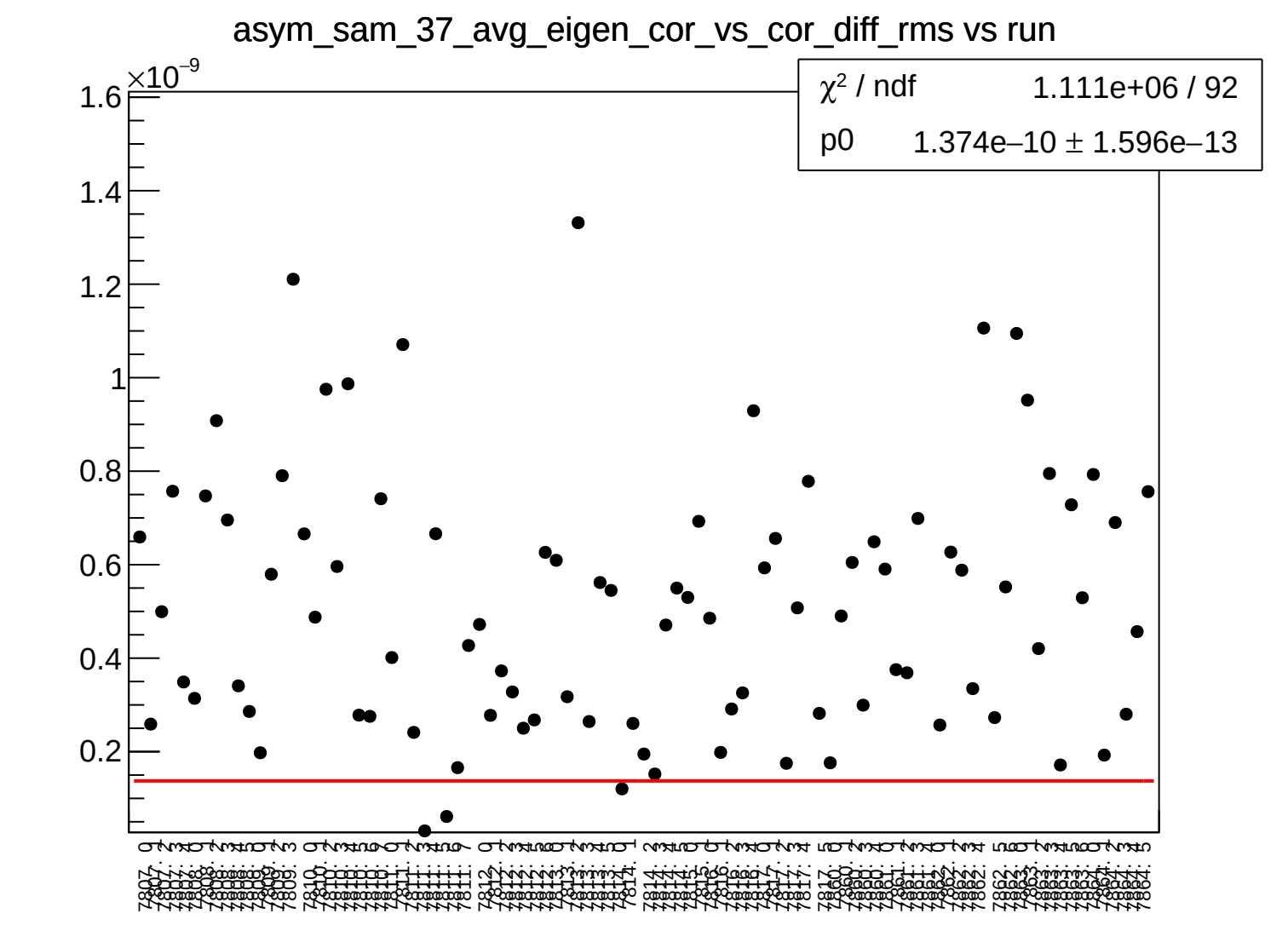

asym_sam_37_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.77e+05 / 92
p0 55.11 ± 0.04392
160
140
120
100
80
60
40
20

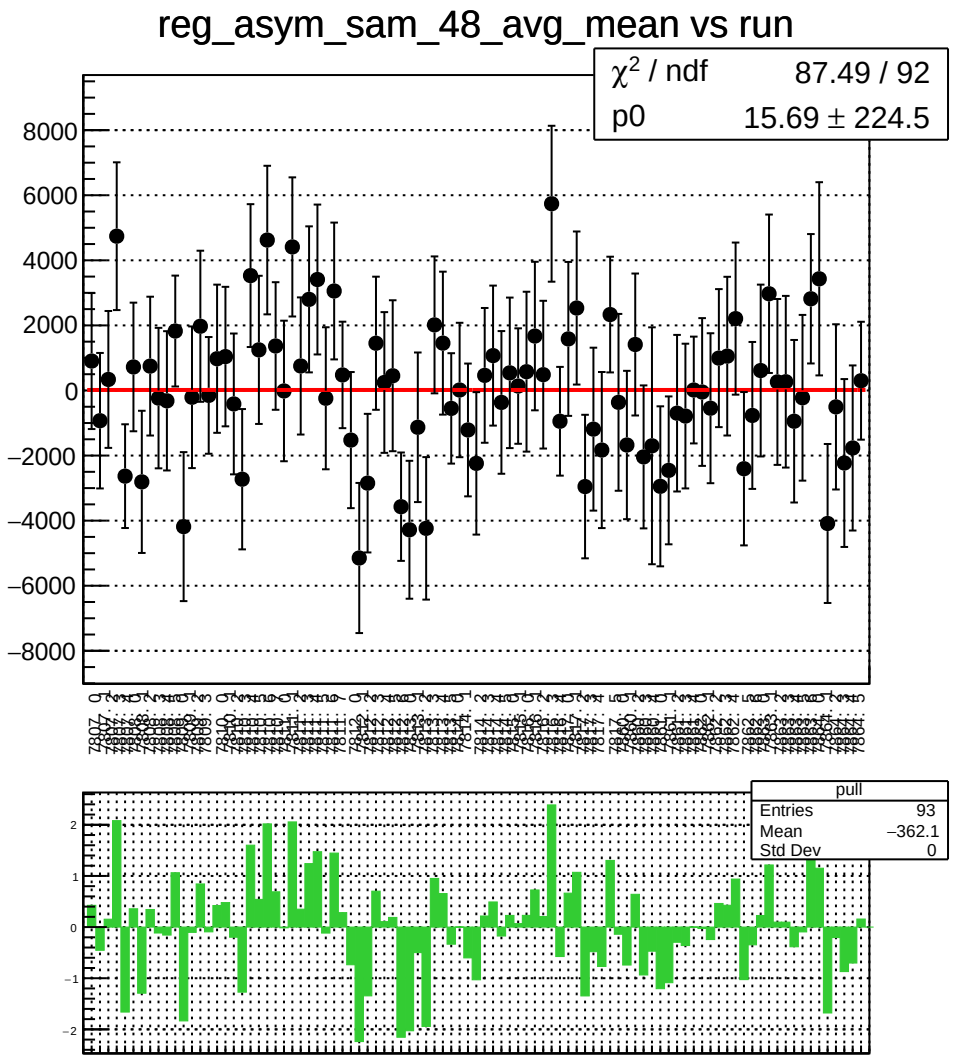

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.97 / 92
p0 −0.02796 ± 0.06211
pull
Entries 93
Mean 46.01
Std Dev 54.87
pull1D
Entries 93
Mean 0.01542
Std Dev 1.016

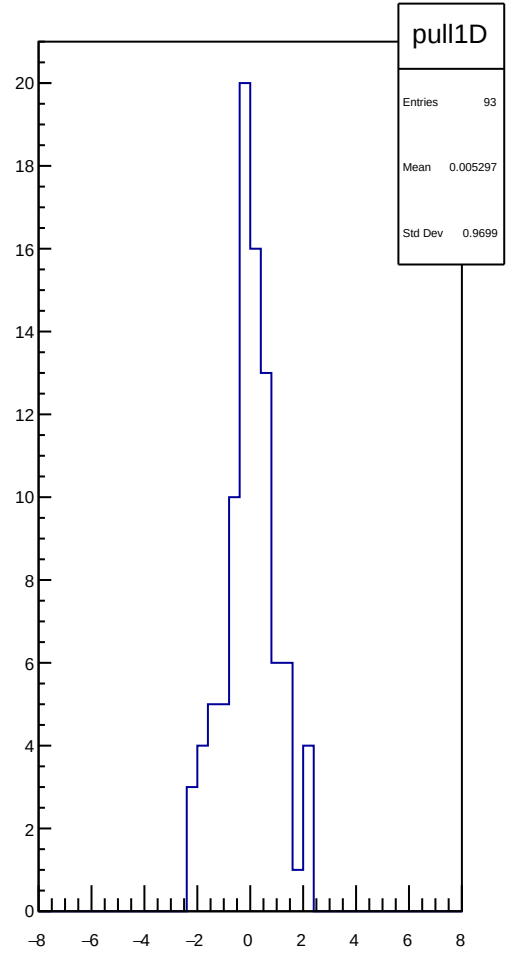

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.77e+05 / 92
p0 55.11 ± 0.04392
160
140
120
100
80
60
40
20

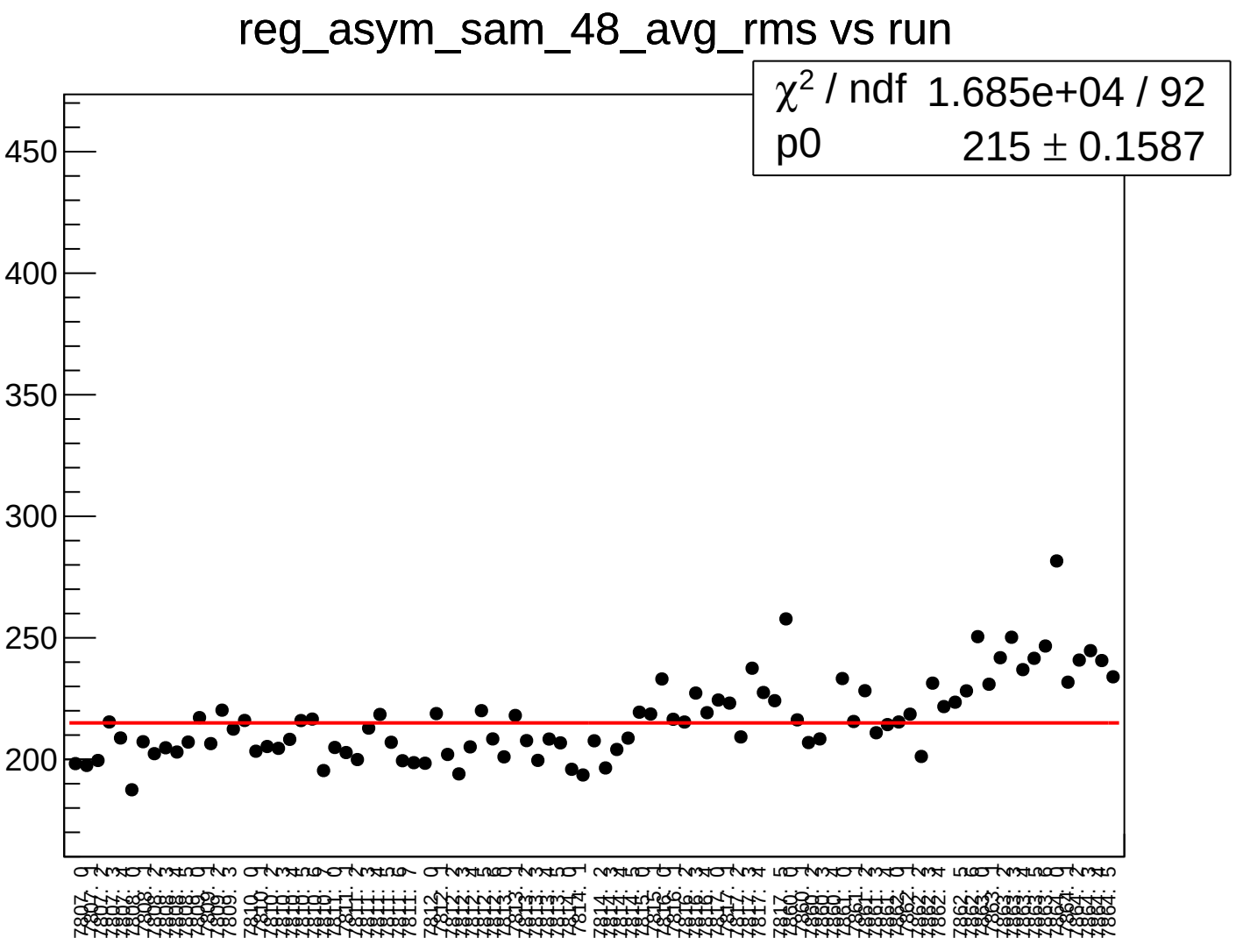

asym_sam_37_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 101.9 / 92
p0 −6.674e−15 ± 2.257e−13
pull
Entries 93
Mean 50.43
Std Dev 33.01

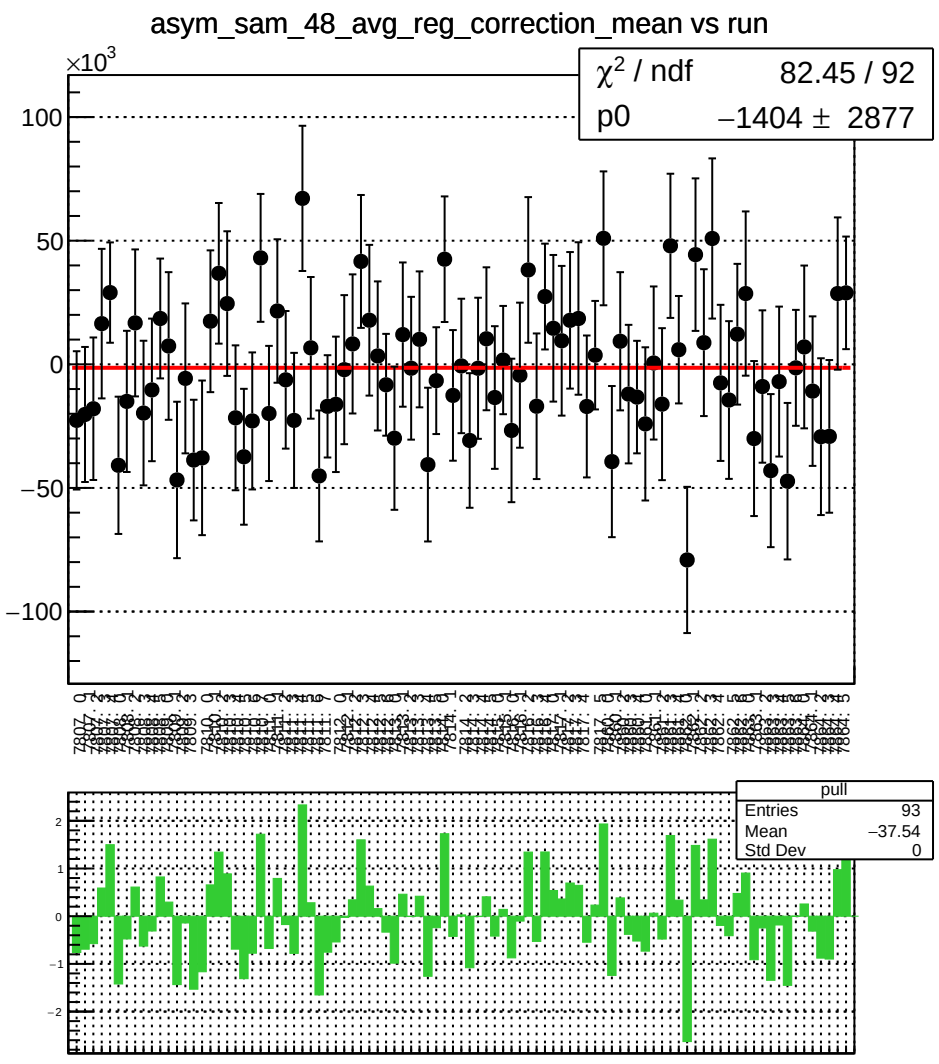

pull1D
Entries 93
Mean −0.1715
Std Dev 1.033

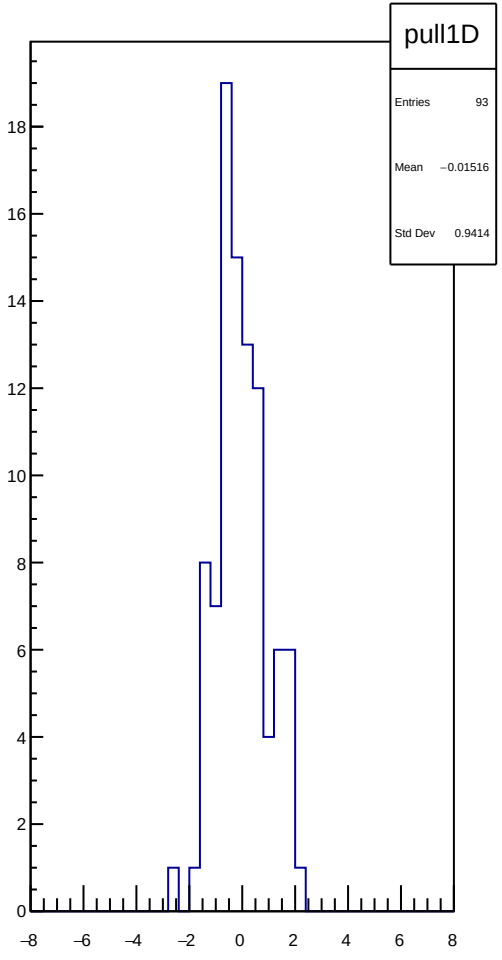

asym_sam_37_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
χ² / ndf 1.111e+06 / 92
p0 1.374e−10 ± 1.596e−13

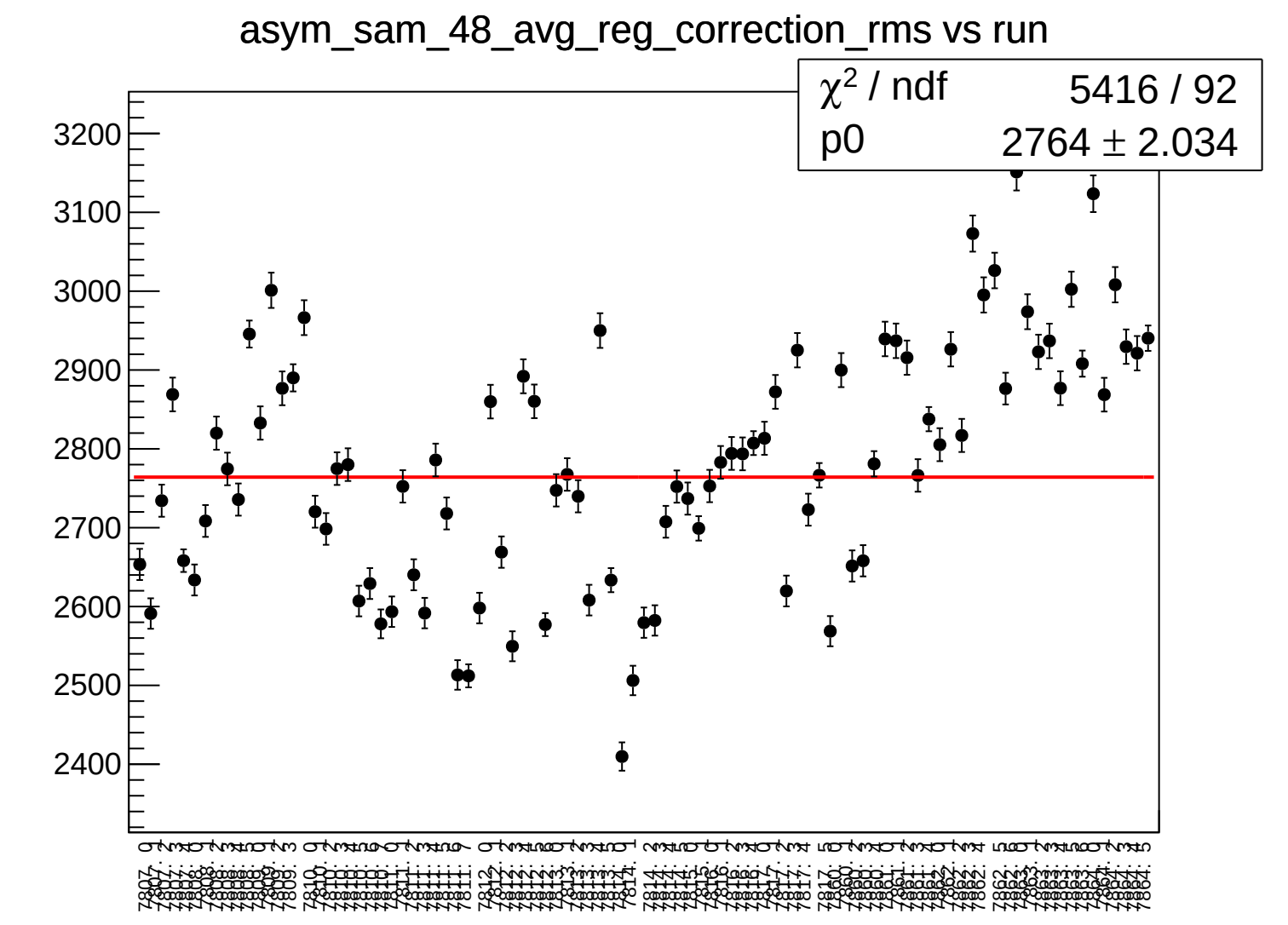

reg_asym_sam_48_avg_mean vs run
χ² / ndf 87.49 / 92
p0 15.69 ± 224.5
pull
Entries 93
Mean −362.1
Std Dev 0

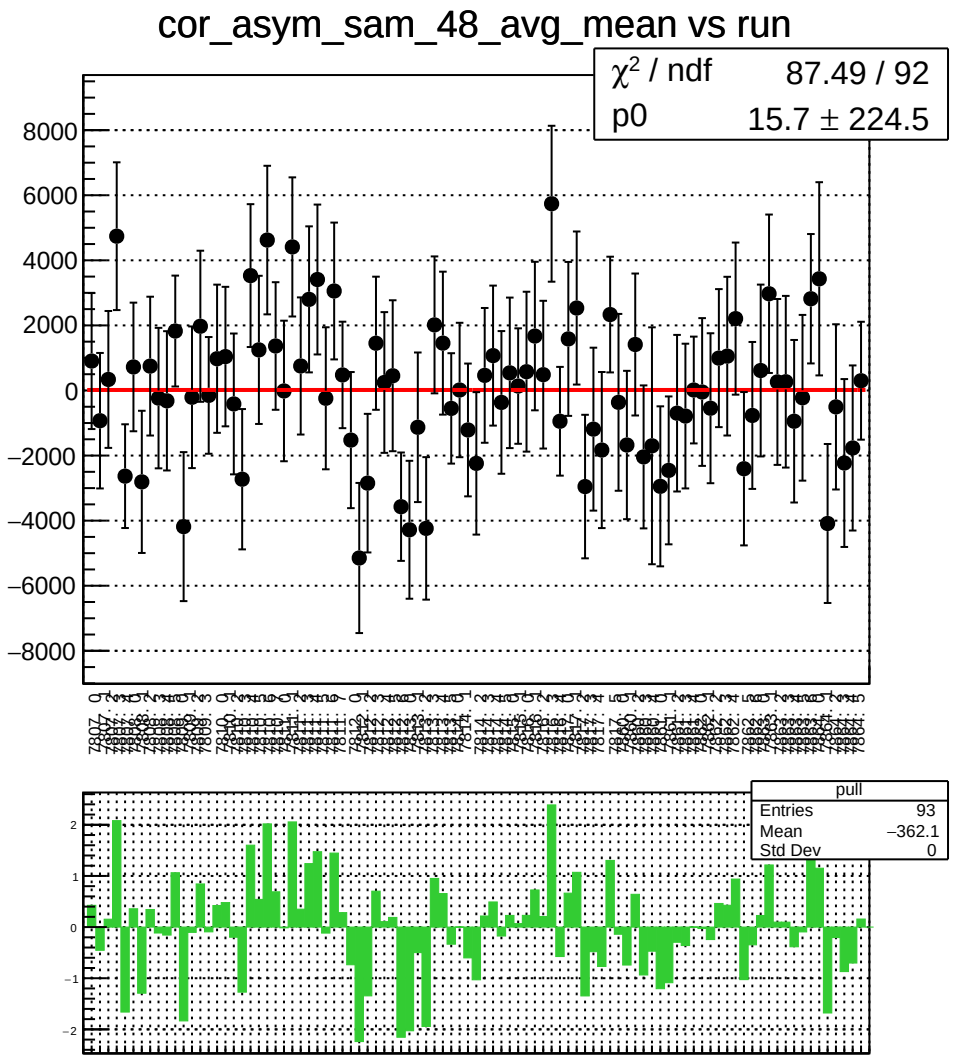

pull1D
Entries 93
Mean 0.005297
Std Dev 0.9699

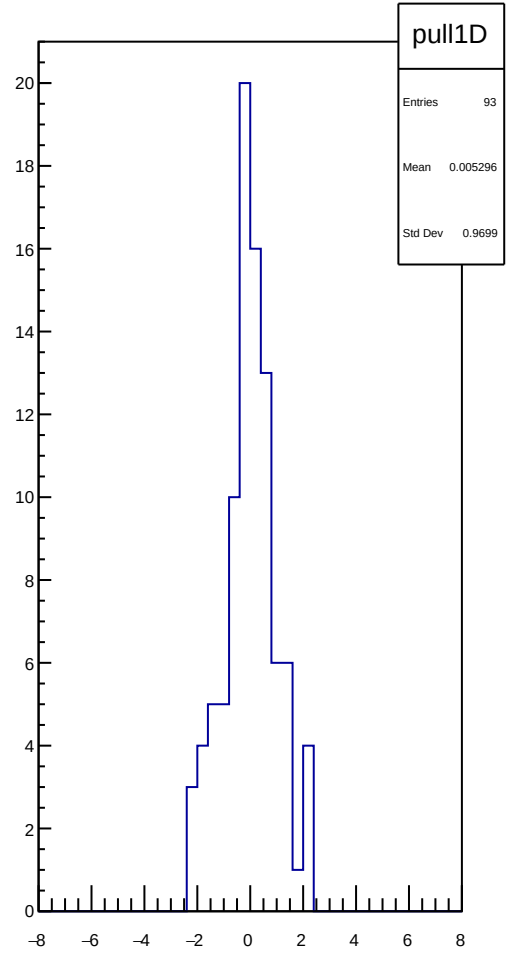

reg_asym_sam_48_avg_rms vs run
χ^2 / ndf 1.685e+04 / 92
p0 215 ± 0.1587
450
400
350
300
250
200

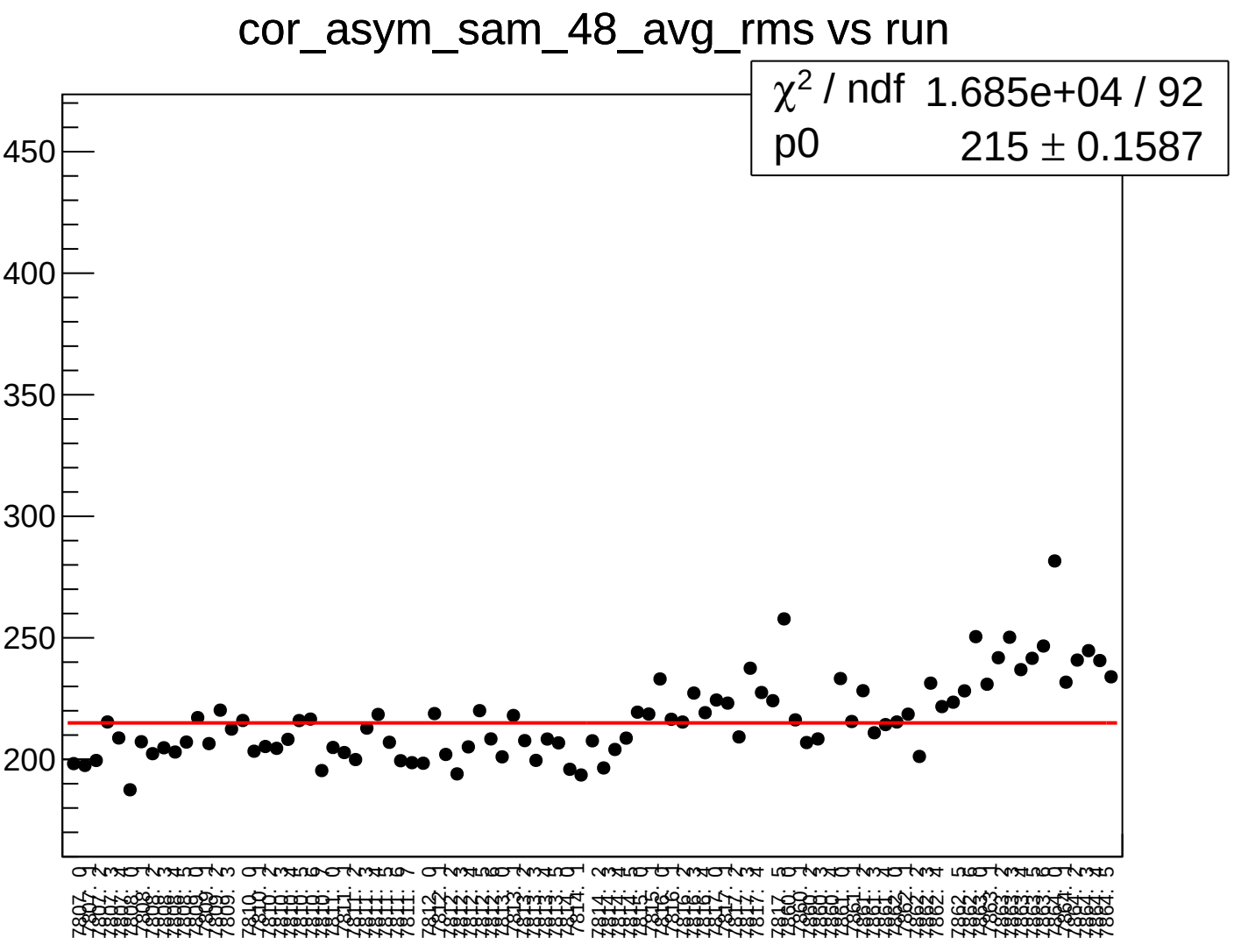

asym_sam_48_avg_reg_correction_mean vs run
×10^3
χ² / ndf 82.45 / 92
p0 −1404 ± 2877
pull
Entries 93
Mean −37.54
Std Dev 0

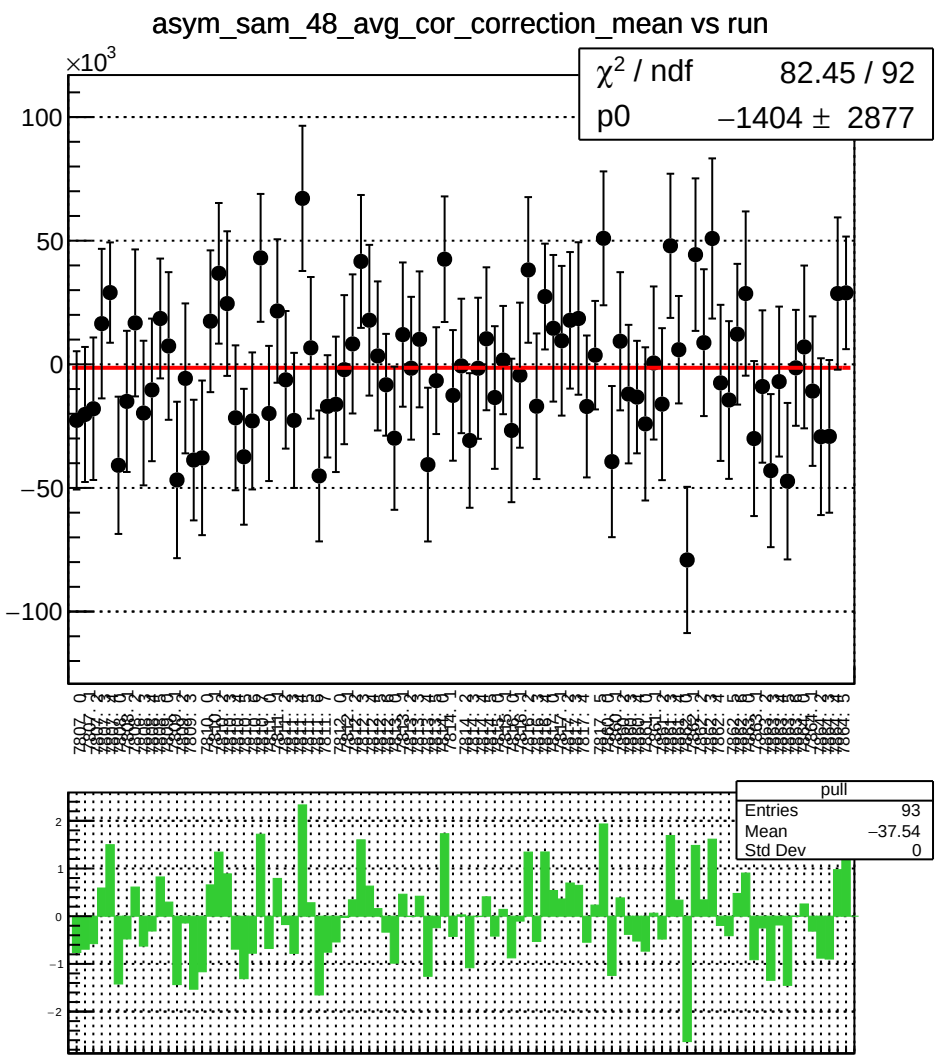

pull1D
Entries 93
Mean −0.01516
Std Dev 0.9414

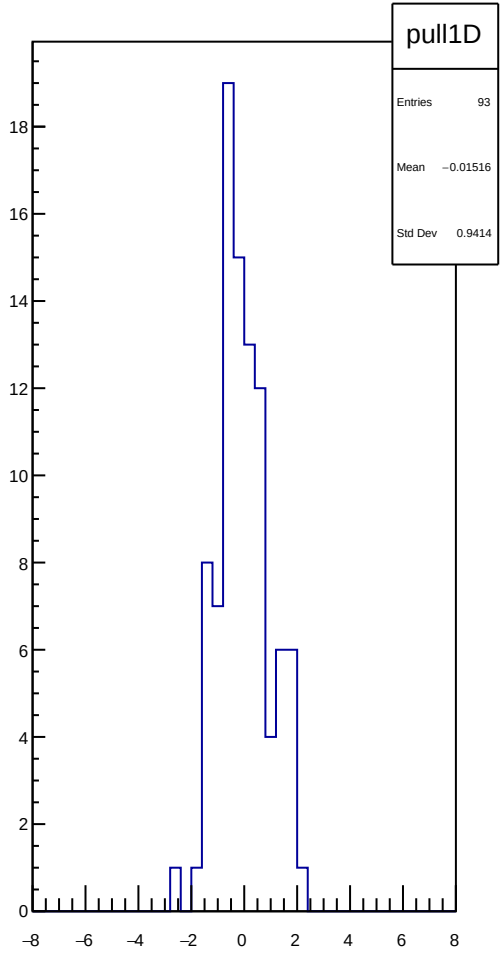

asym_sam_48_avg_reg_correction_rms vs run
χ² / ndf 5416 / 92
p0 2764 ± 2.034
3200
3100
3000
2900
2800
2700
2600
2500
2400

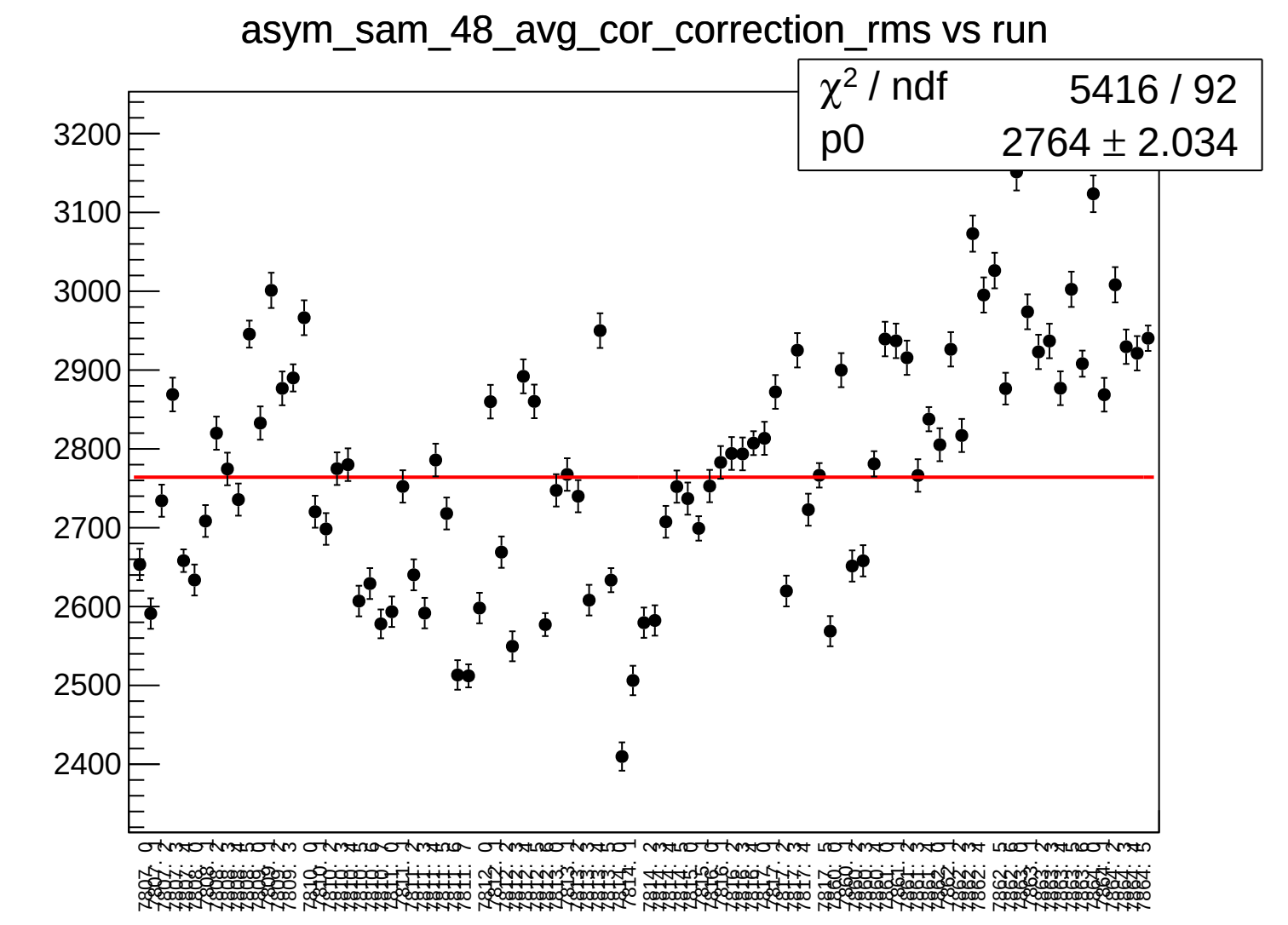

cor_asym_sam_48_avg_mean vs run
χ² / ndf 87.49 / 92
p0 15.7 ± 224.5
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 93
Mean −362.1
Std Dev 0
2
1
0
−1
−2

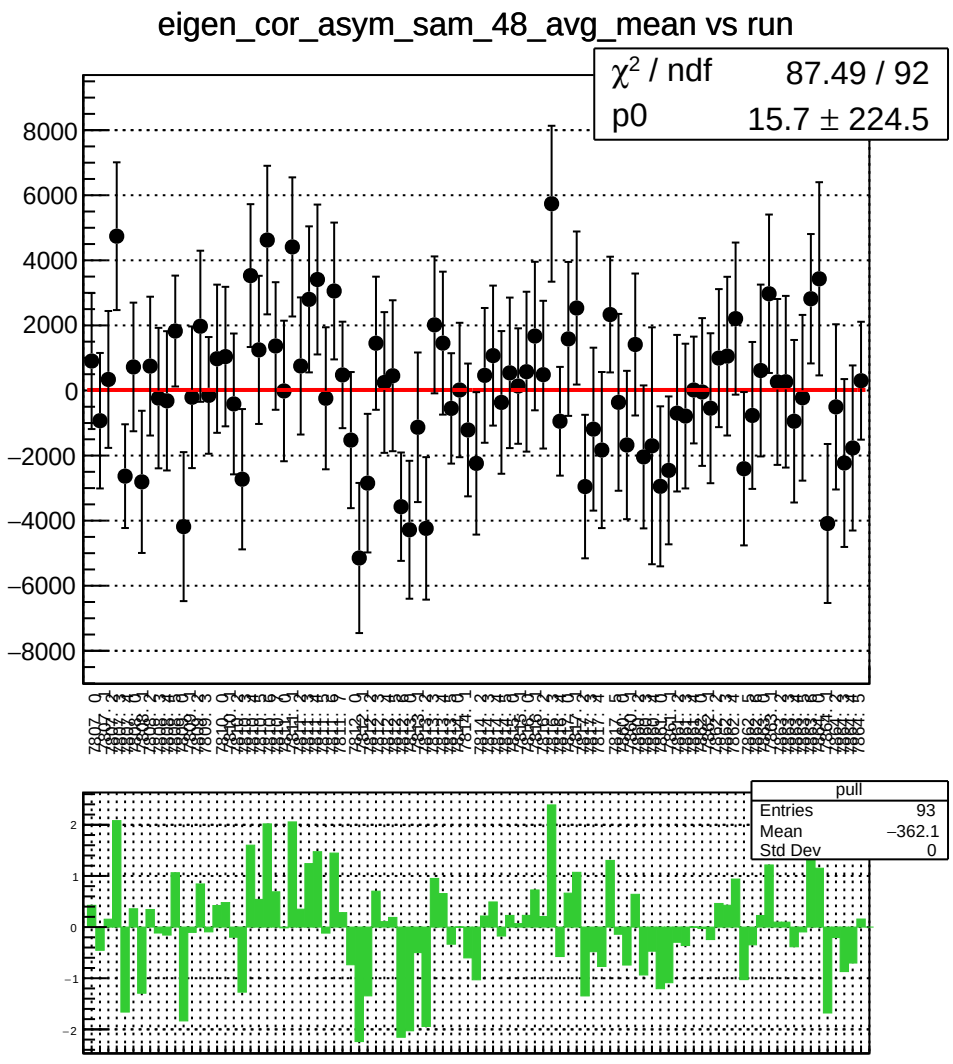

pull1D
Entries 93
Mean 0.005296
Std Dev 0.9699
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

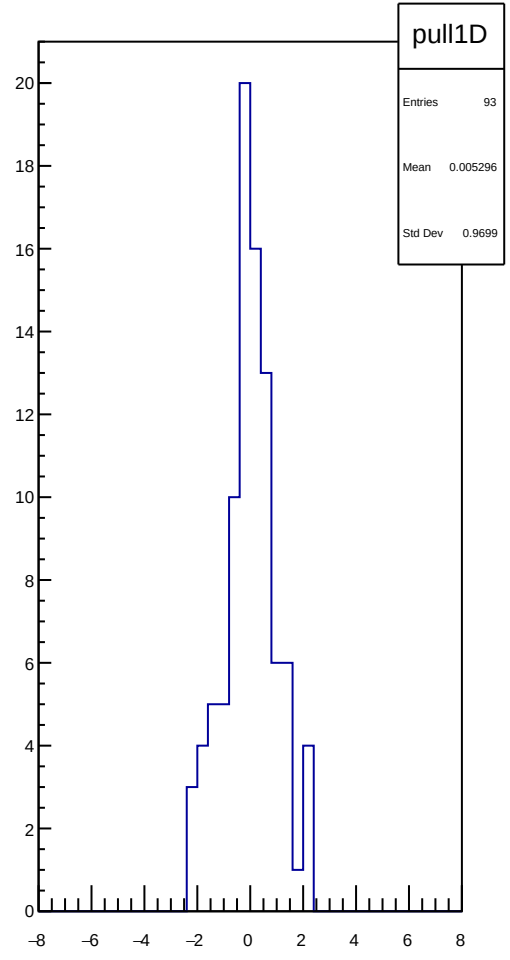

cor_asym_sam_48_avg_rms vs run
χ^2 / ndf 1.685e+04 / 92
p0 215 ± 0.1587
450
400
350
300
250
200

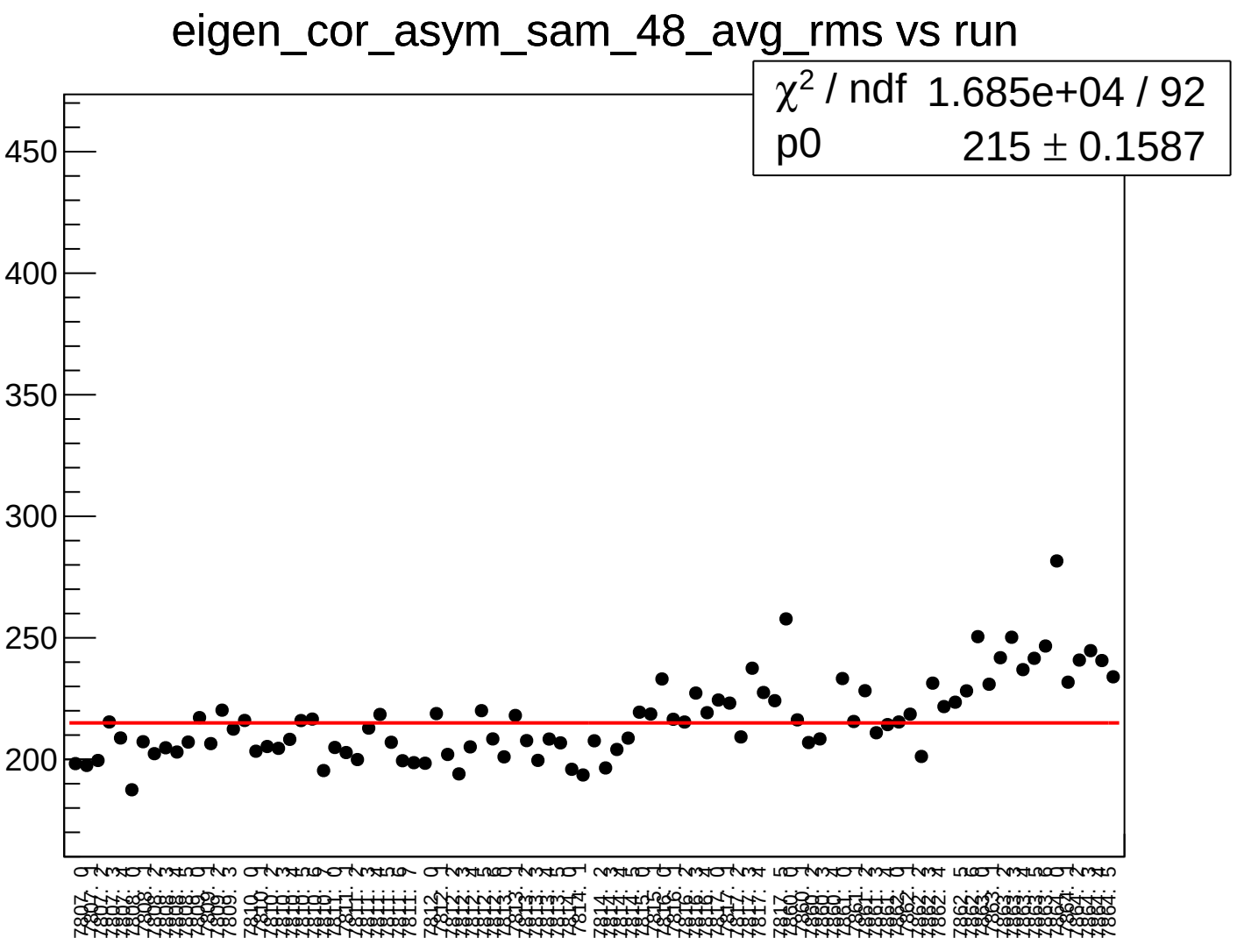

asym_sam_48_avg_cor_correction_mean vs run
×10^3
χ² / ndf 82.45 / 92
p0 −1404 ± 2877
100
50
0
−50
−100
pull
Entries 93
Mean −37.54
Std Dev 0
2
1
0
−1
−2

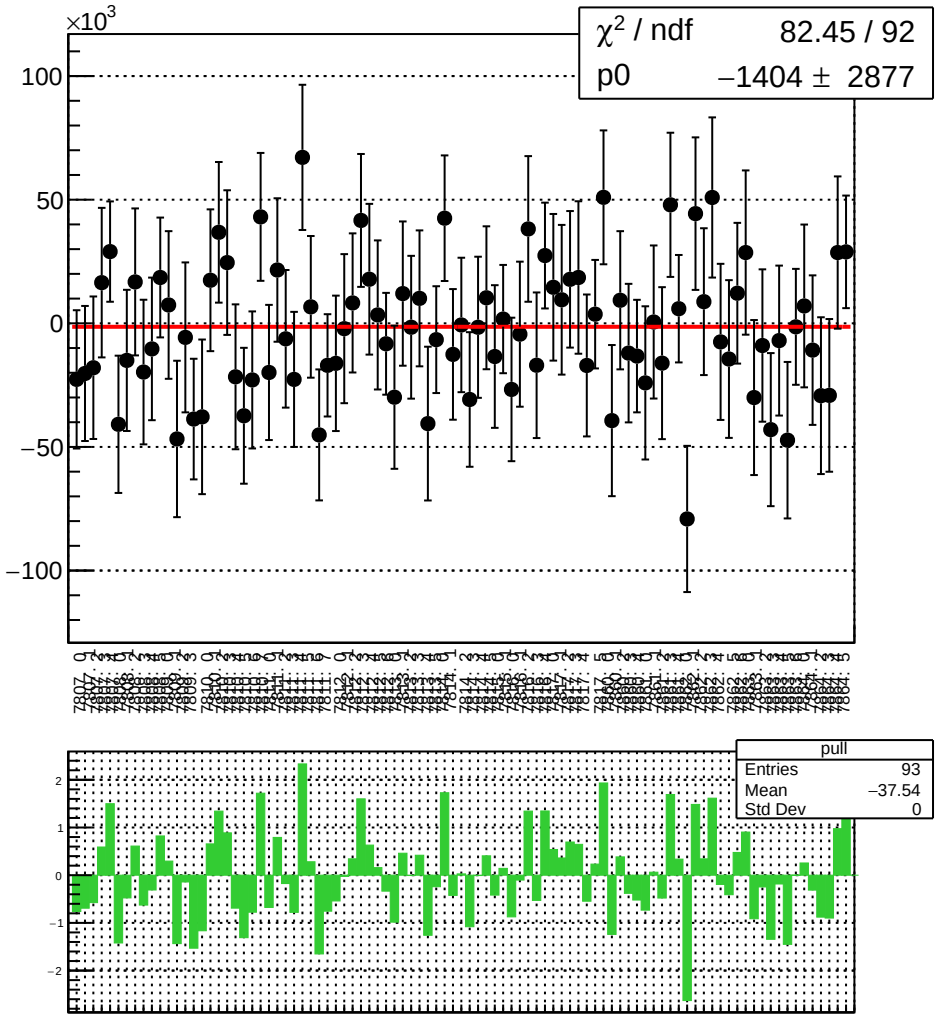

pull1D
Entries 93
Mean −0.01516
Std Dev 0.9414
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

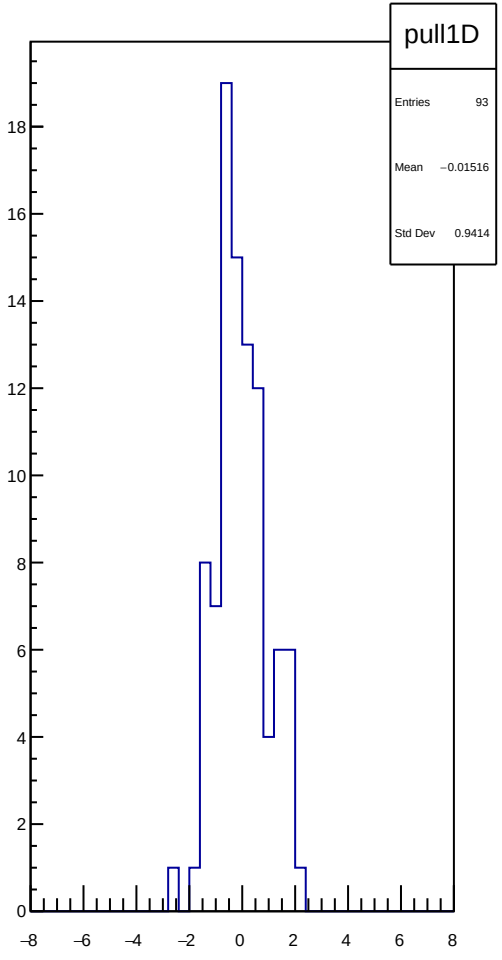

asym_sam_48_avg_cor_correction_rms vs run
χ² / ndf 5416 / 92
p0 2764 ± 2.034
3200
3100
3000
2900
2800
2700
2600
2500
2400

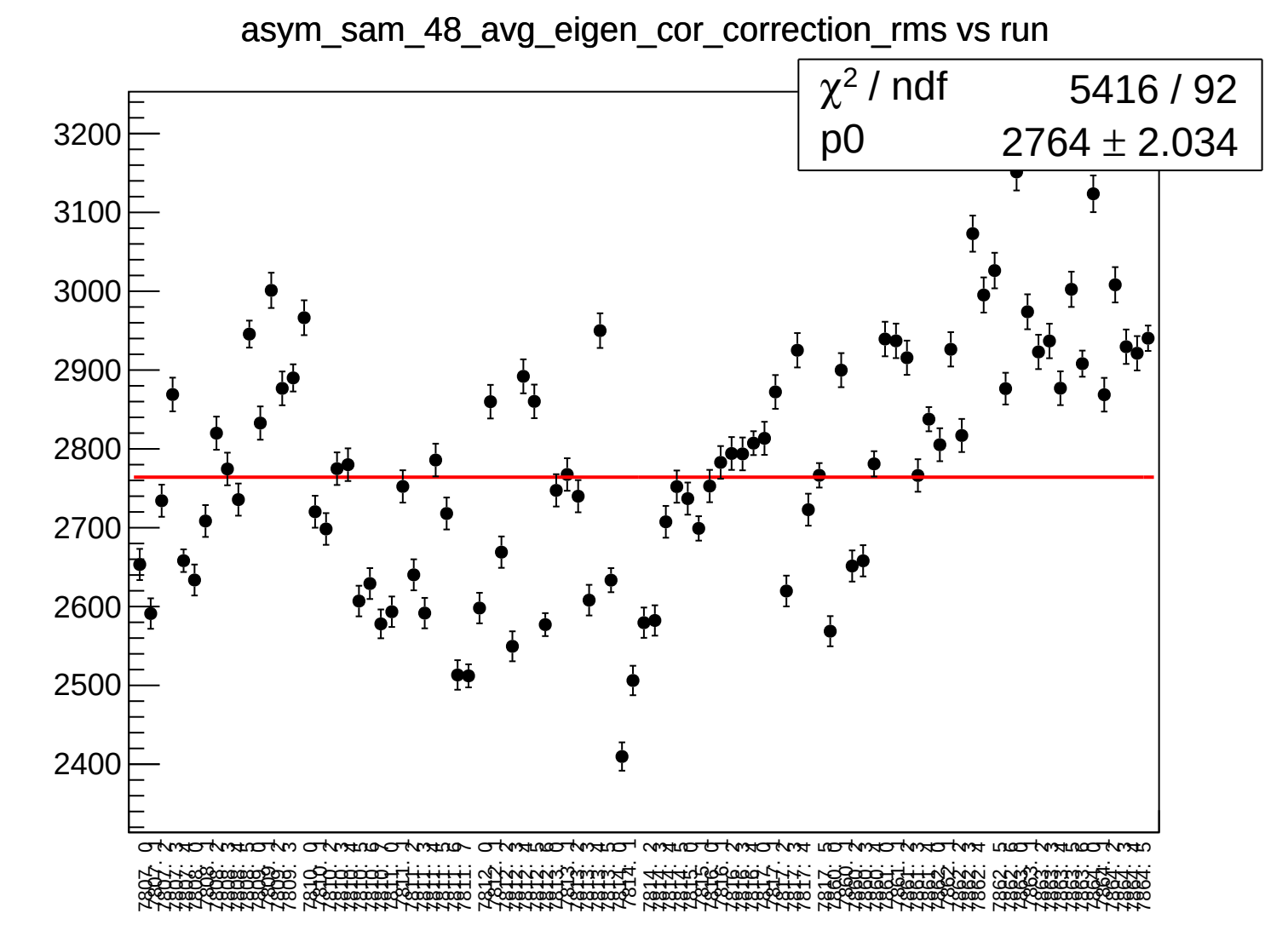

eigen_cor_asym_sam_48_avg_mean vs run
χ² / ndf 87.49 / 92
p0 15.7 ± 224.5
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 93
Mean −362.1
Std Dev 0
2
1
0
−1
−2

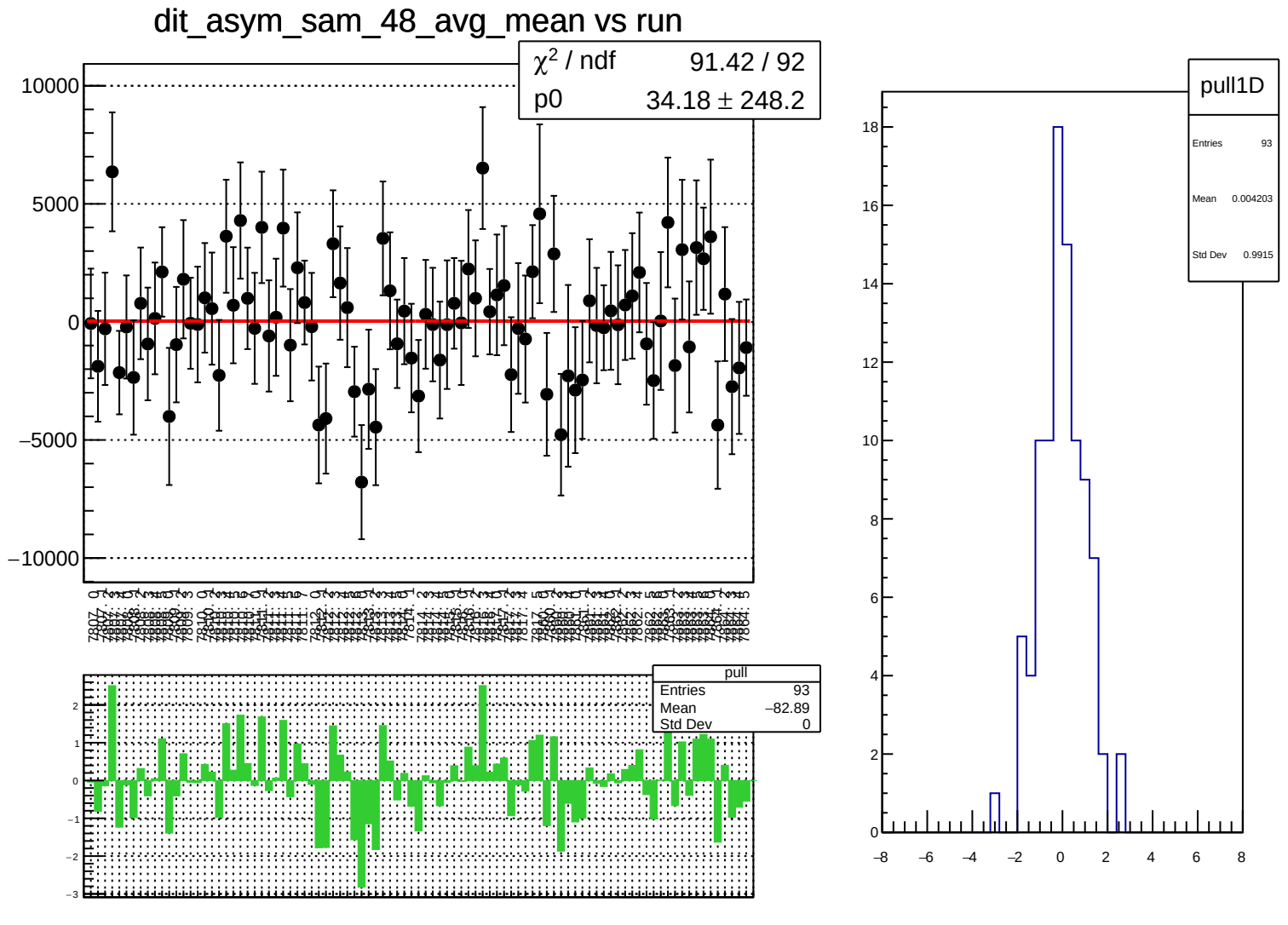

pull1D
Entries 93
Mean 0.005296
Std Dev 0.9699
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

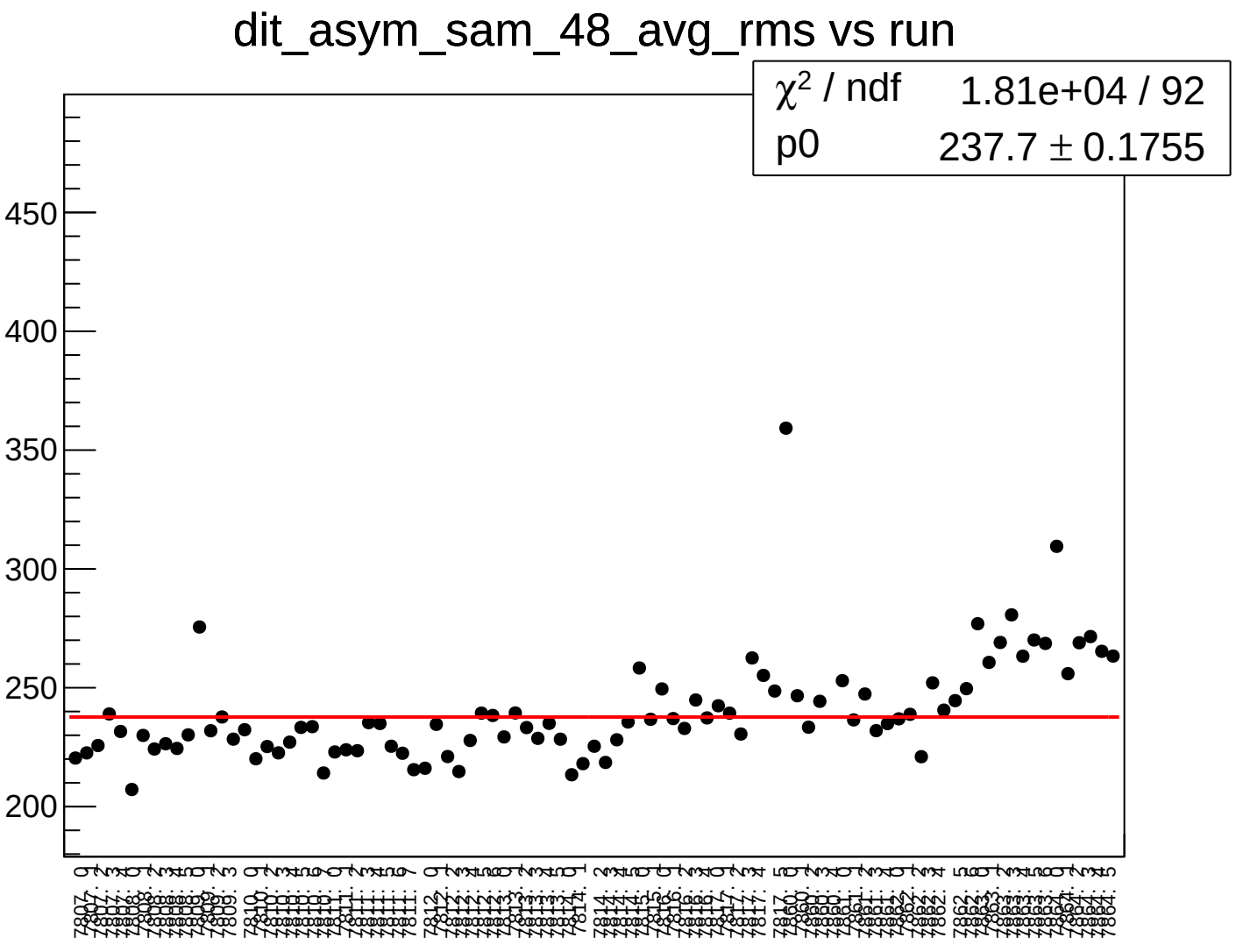

eigen_cor_asym_sam_48_avg_rms vs run
χ² / ndf 1.685e+04 / 92
p0 215 ± 0.1587
450
400
350
300
250
200

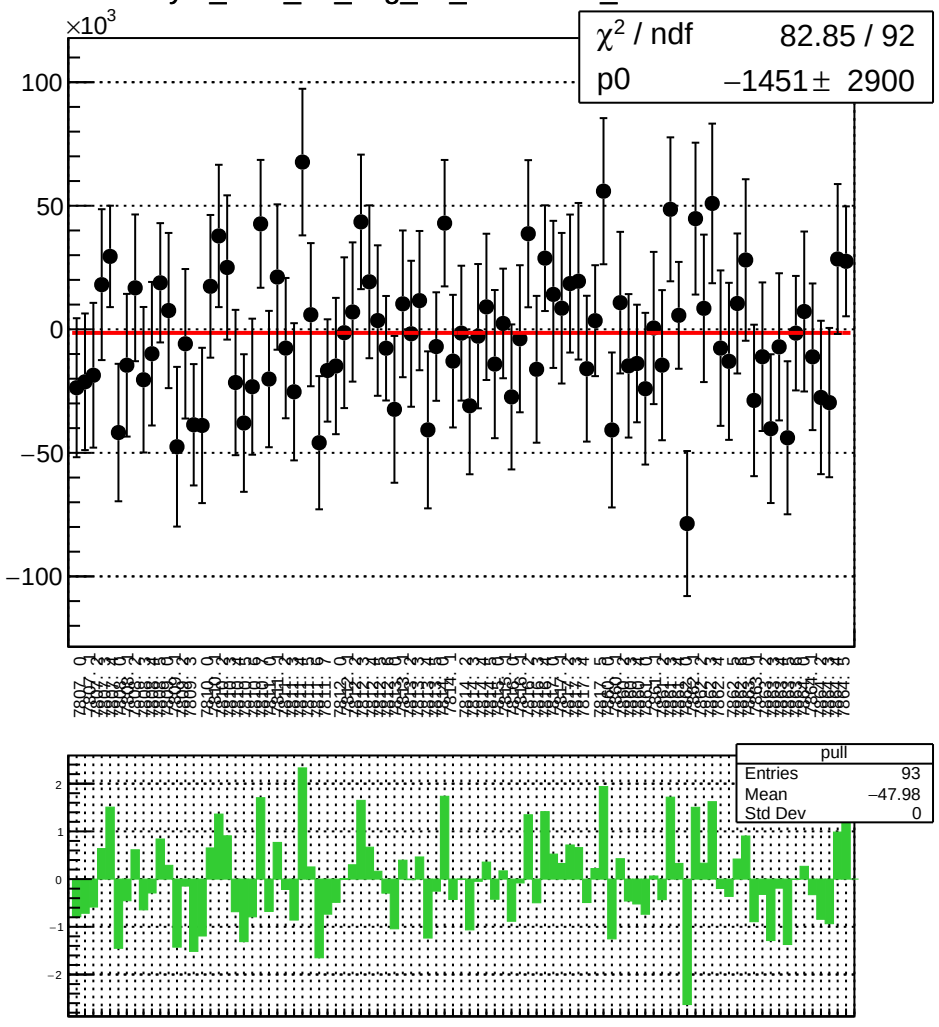

asym_sam_48_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 82.45 / 92
p0 −1404 ± 2877
100
50
0
−50
−100
pull
Entries 93
Mean −37.54
Std Dev 0
2
1
0
−1
−2

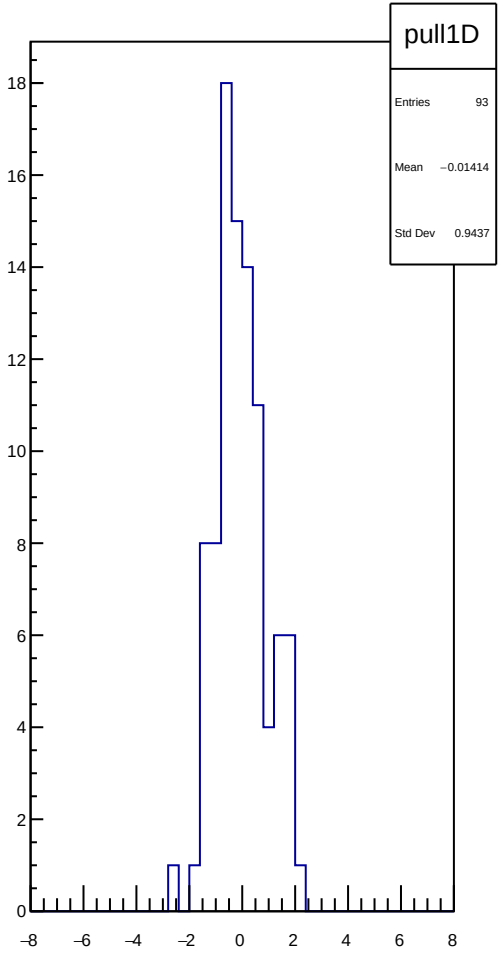

pull1D
Entries 93
Mean −0.01516
Std Dev 0.9414
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

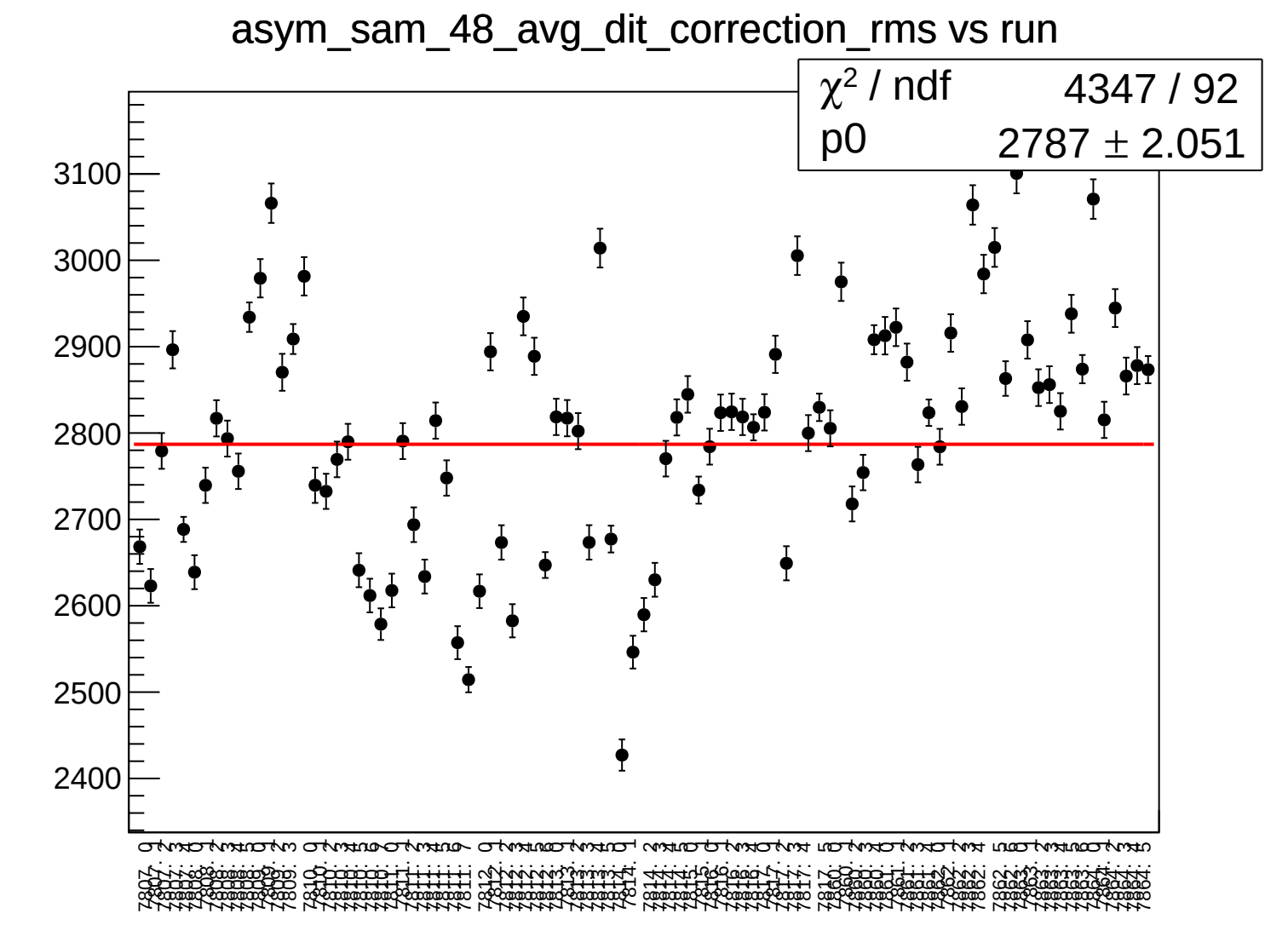

asym_sam_48_avg_eigen_cor_correction_rms vs run
χ² / ndf 5416 / 92
p0 2764 ± 2.034
3200
3100
3000
2900
2800
2700
2600
2500
2400

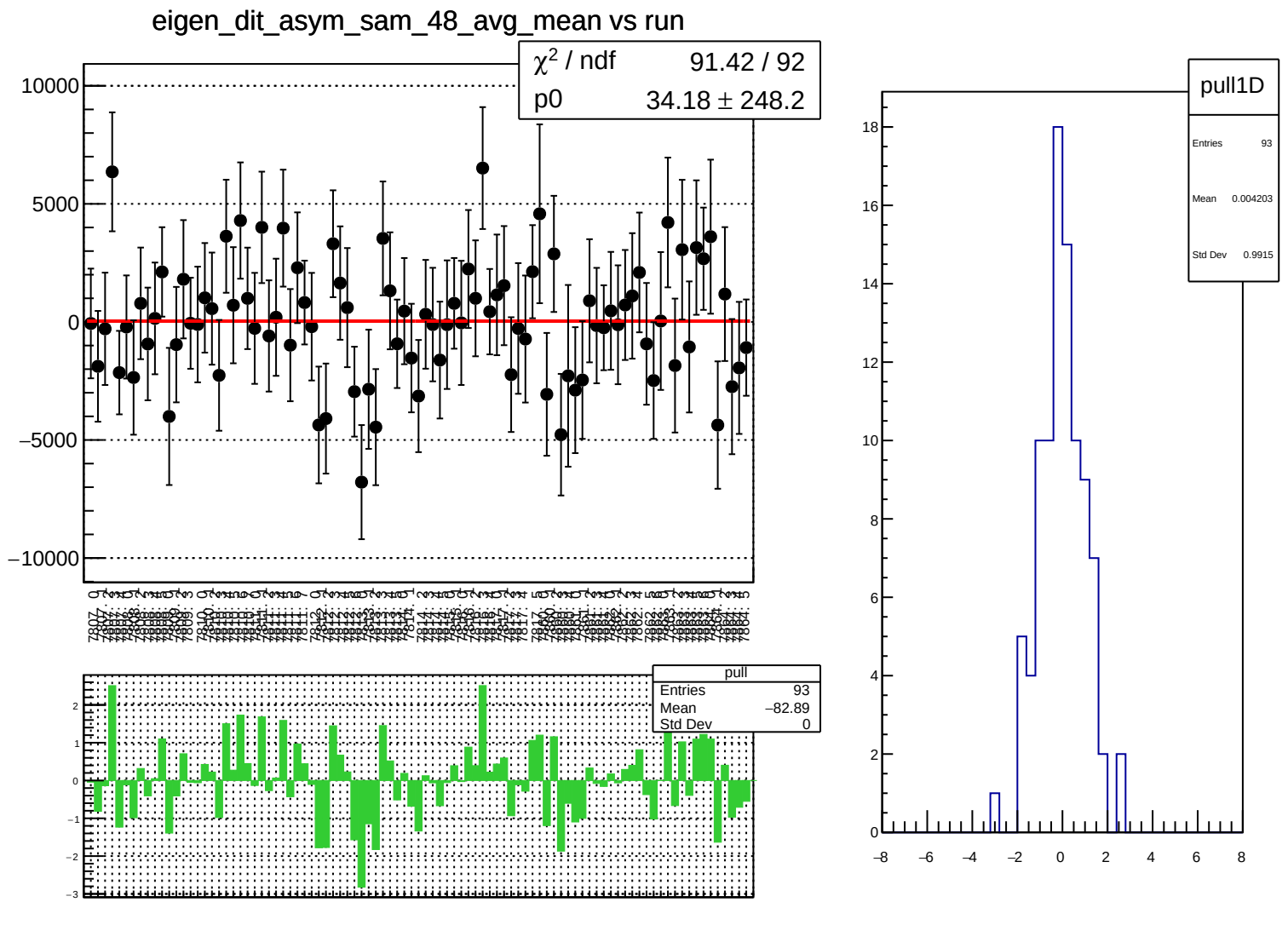

dit_asym_sam_48_avg_mean vs run
χ² / ndf 91.42 / 92
p0 34.18 ± 248.2
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −82.89
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.004203
Std Dev 0.9915
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

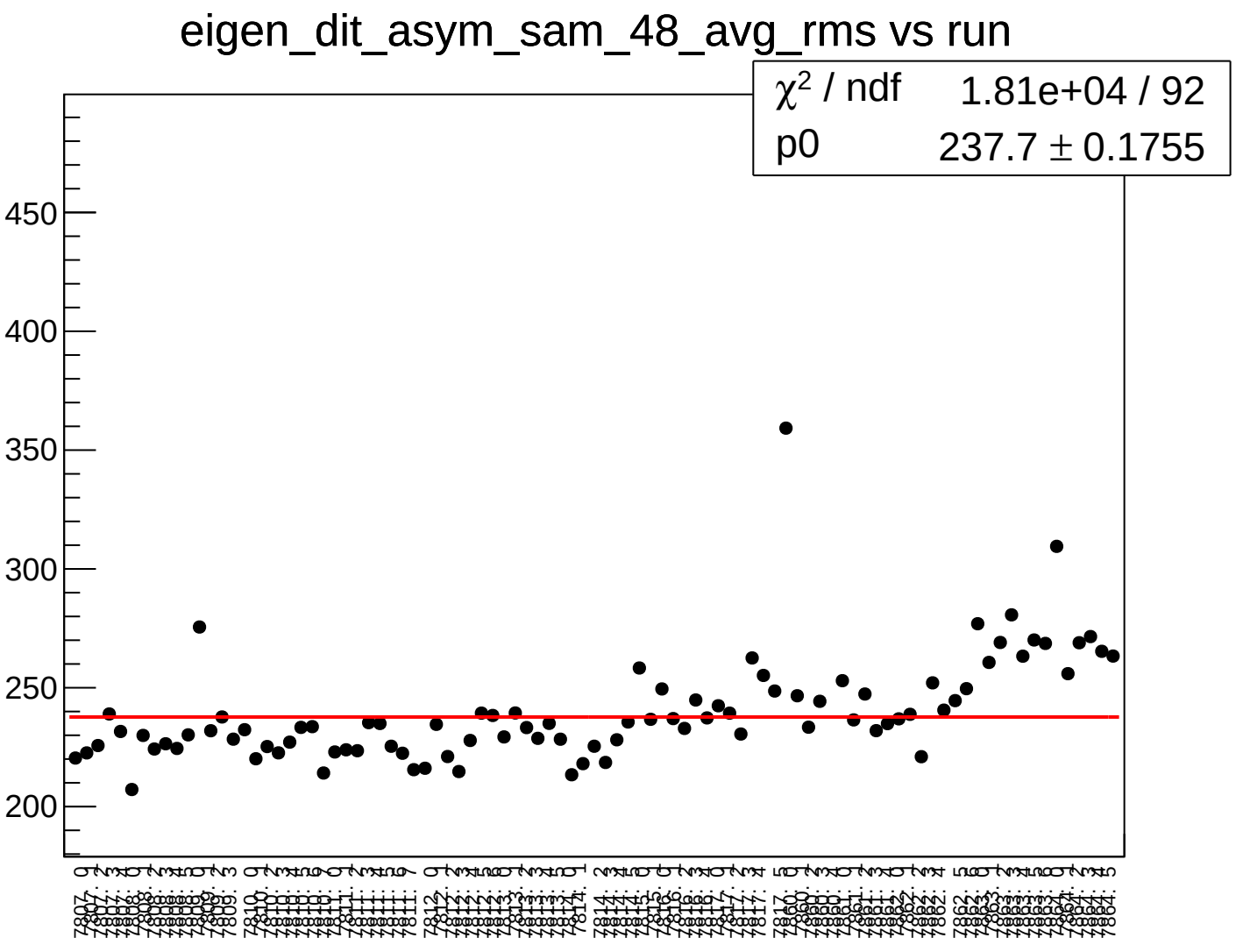

dit_asym_sam_48_avg_rms vs run
χ^2 / ndf 1.81e+04 / 92
p0 237.7 ± 0.1755
450
400
350
300
250
200

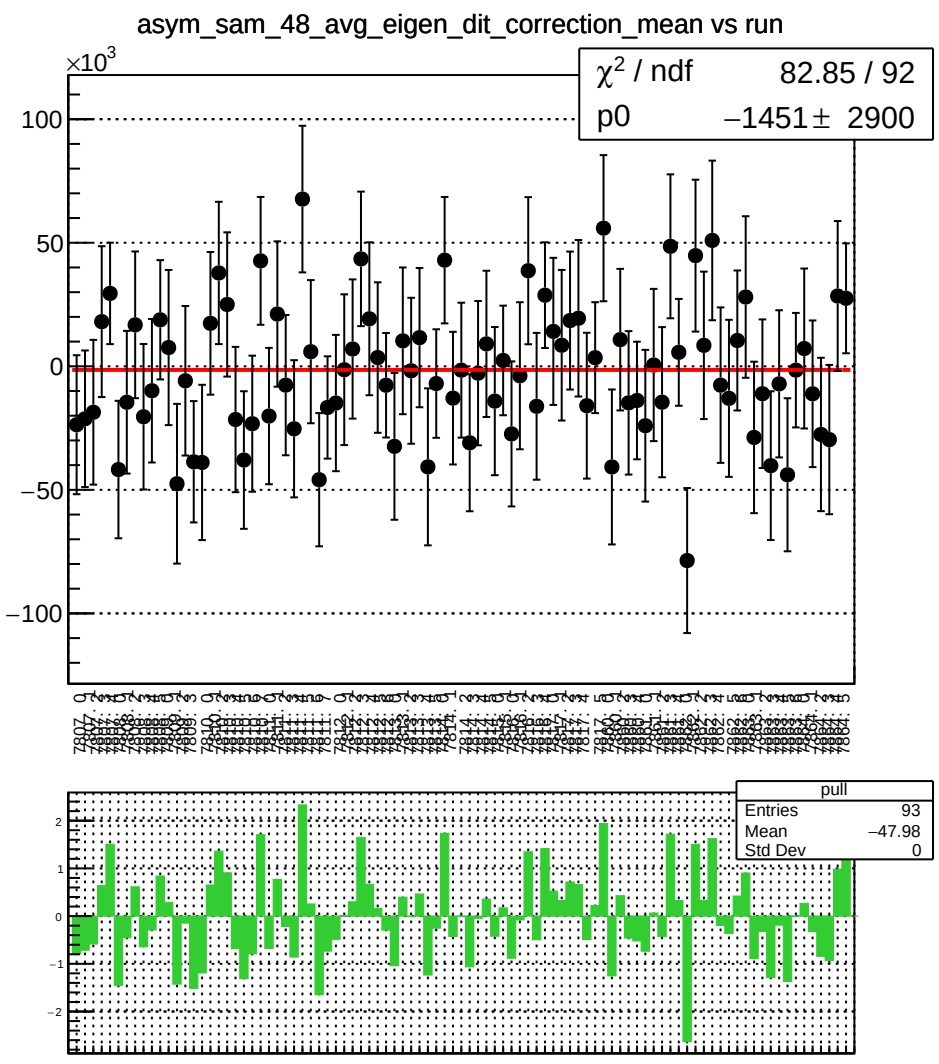

asym_sam_48_avg_dit_correction_mean vs run
×10^3
χ² / ndf 82.85 / 92
p0 −1451 ± 2900
100
50
0
−50
−100
pull
Entries 93
Mean −47.98
Std Dev 0
2
1
0
−1
−2

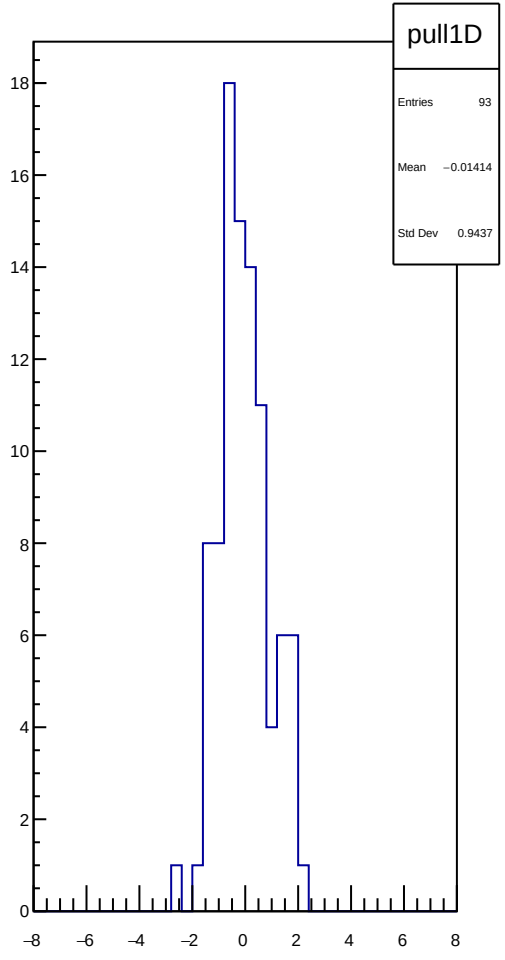

pull1D
Entries 93
Mean −0.01414
Std Dev 0.9437
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

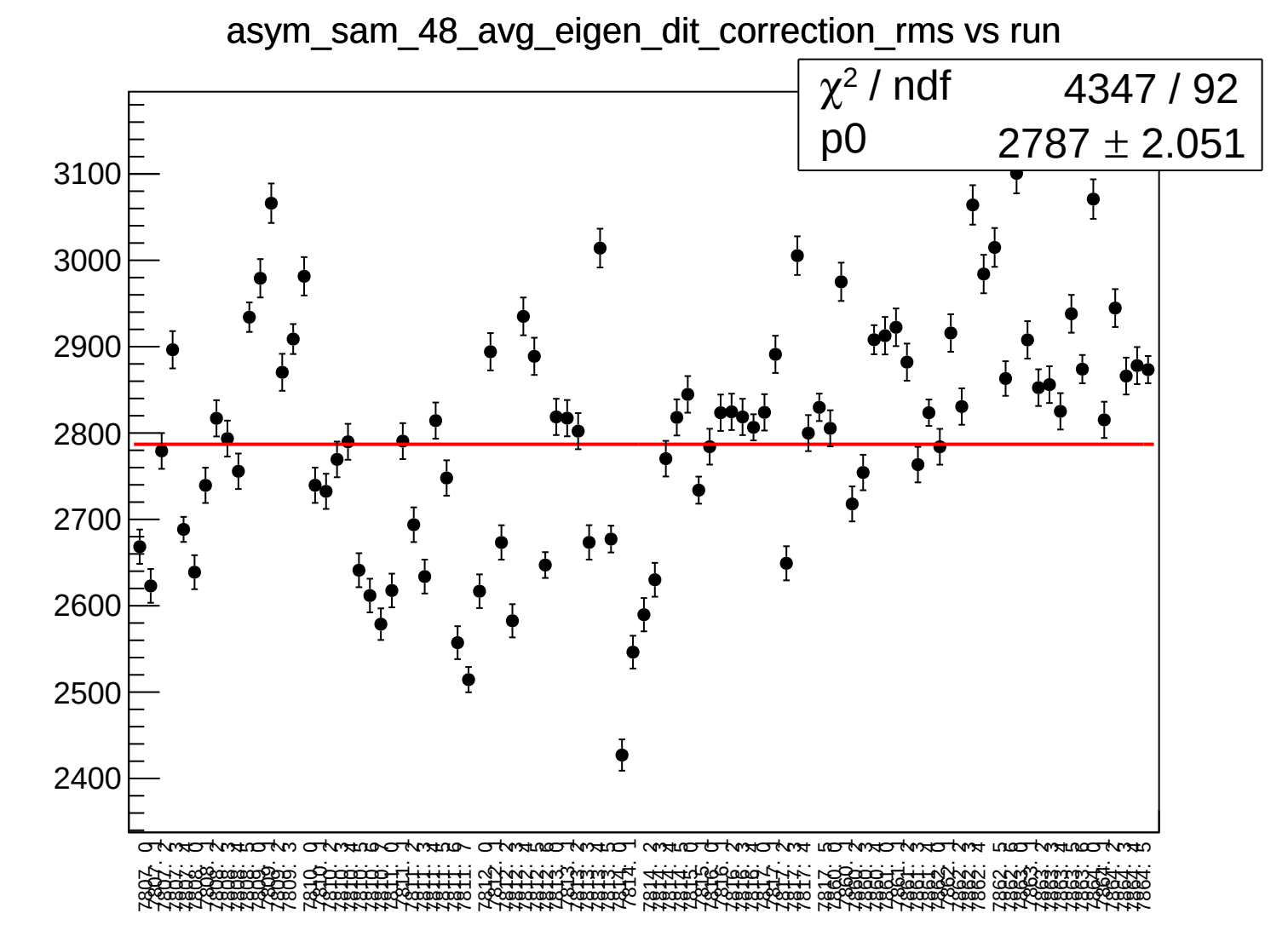

asym_sam_48_avg_dit_correction_rms vs run
χ² / ndf 4347 / 92
p0 2787 ± 2.051
3100
3000
2900
2800
2700
2600
2500
2400

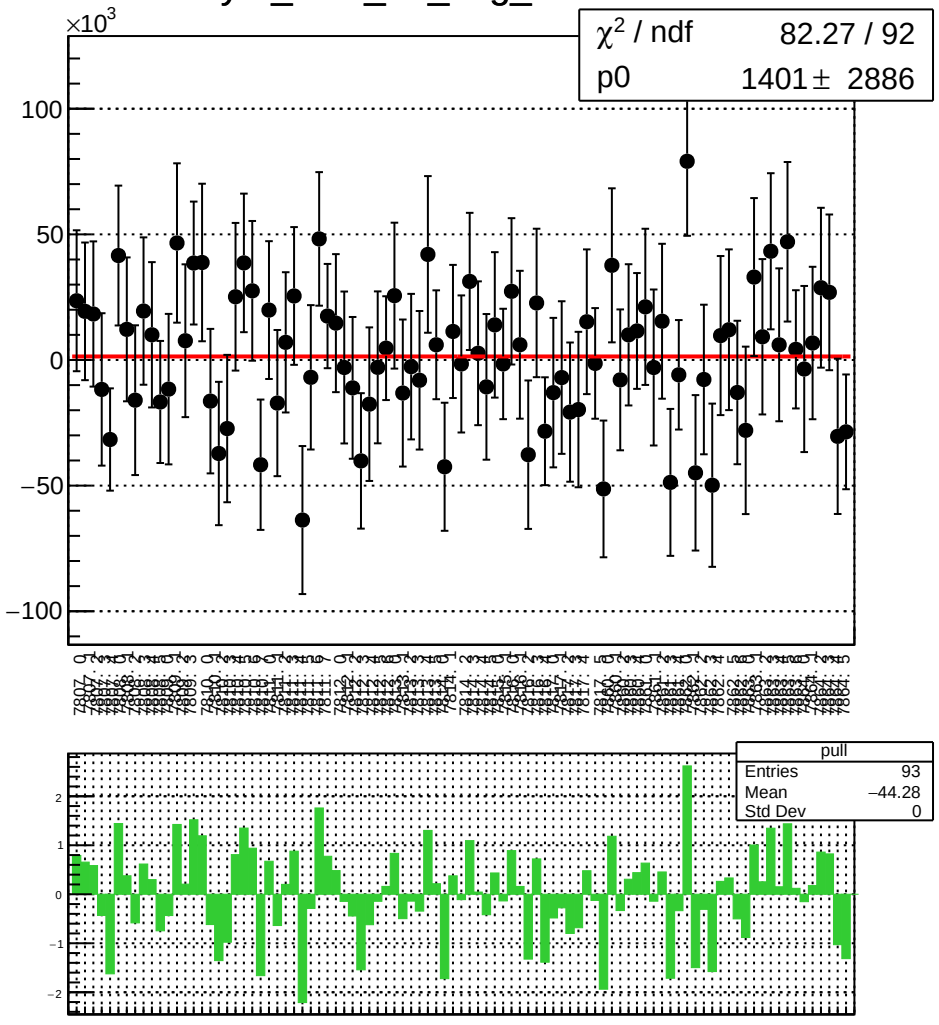

eigen_dit_asym_sam_48_avg_mean vs run
χ² / ndf 91.42 / 92
p0 34.18 ± 248.2
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −82.89
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.004203
Std Dev 0.9915
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

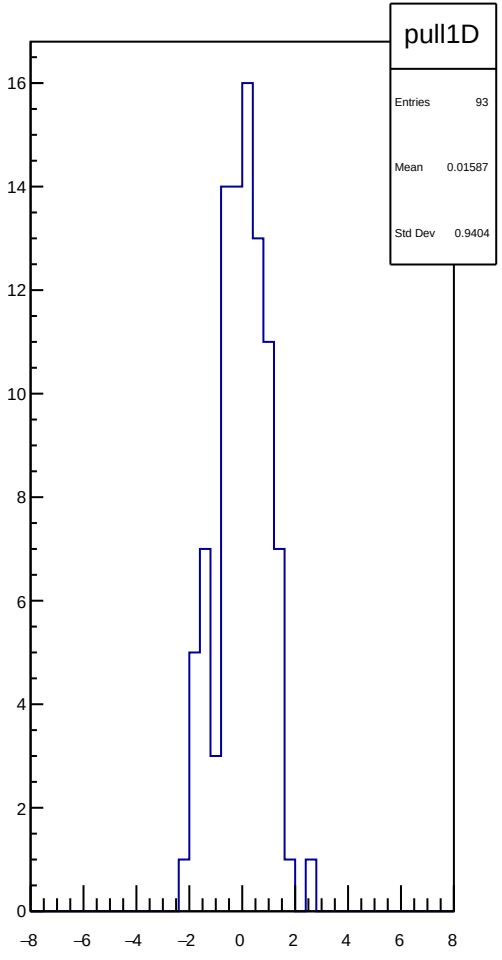

eigen_dit_asym_sam_48_avg_rms vs run
χ² / ndf 1.81e+04 / 92
p0 237.7 ± 0.1755
450
400
350
300
250
200

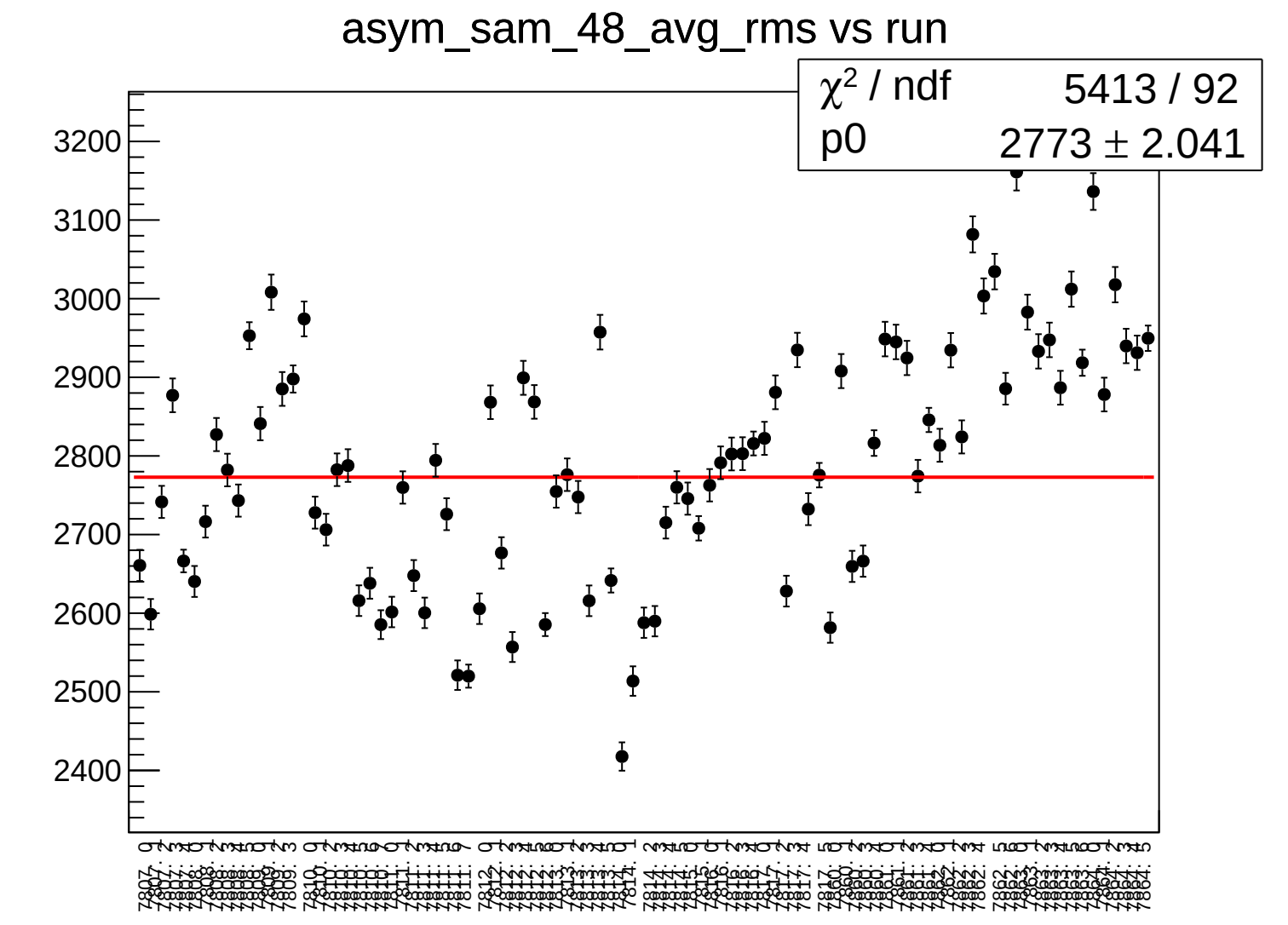

asym_sam_48_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 82.85 / 92
p0 −1451 ± 2900
100
50
0
−50
−100
pull
Entries 93
Mean −47.98
Std Dev 0
2
1
0
−1
−2

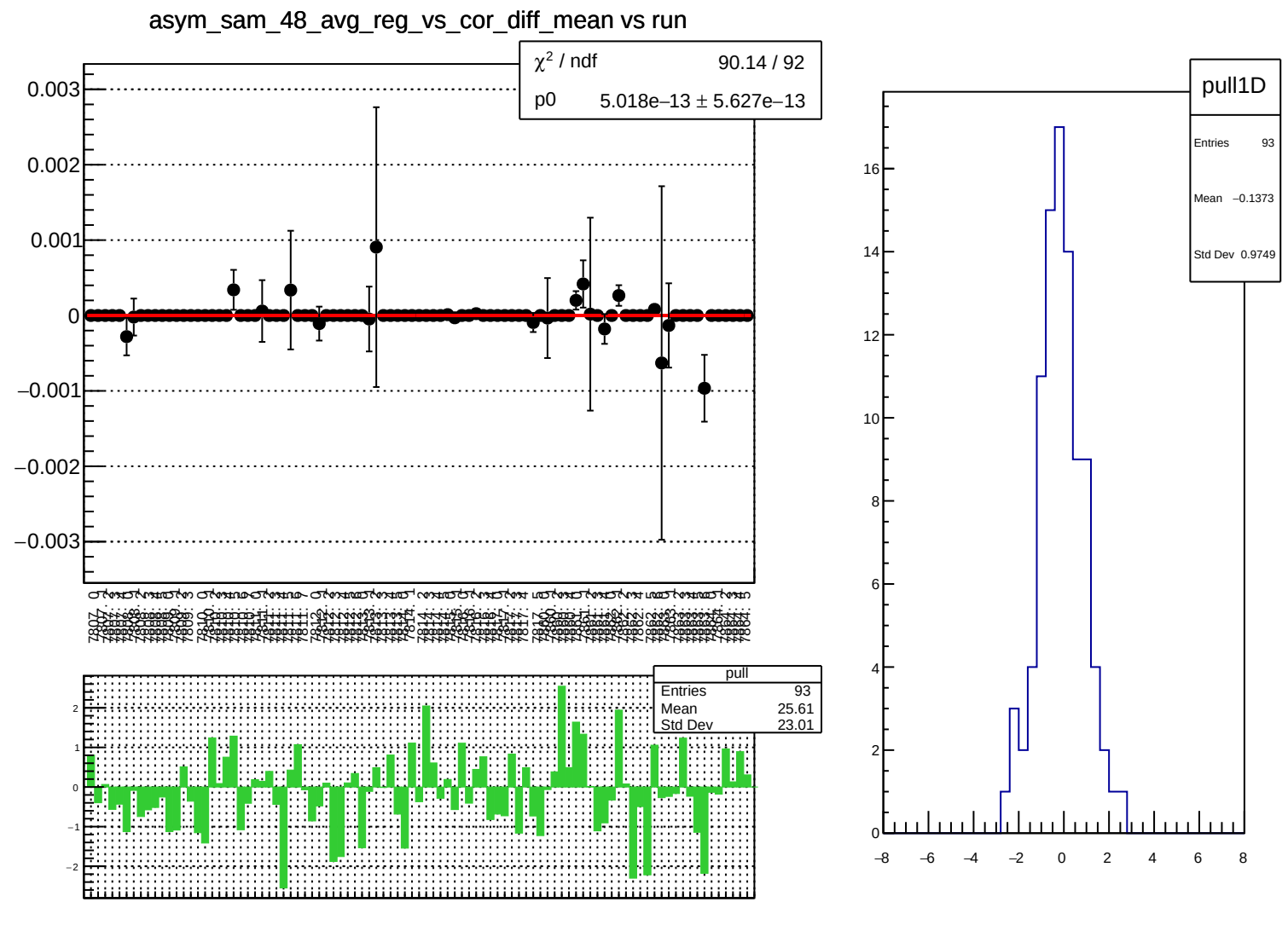

pull1D
Entries 93
Mean −0.01414
Std Dev 0.9437
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

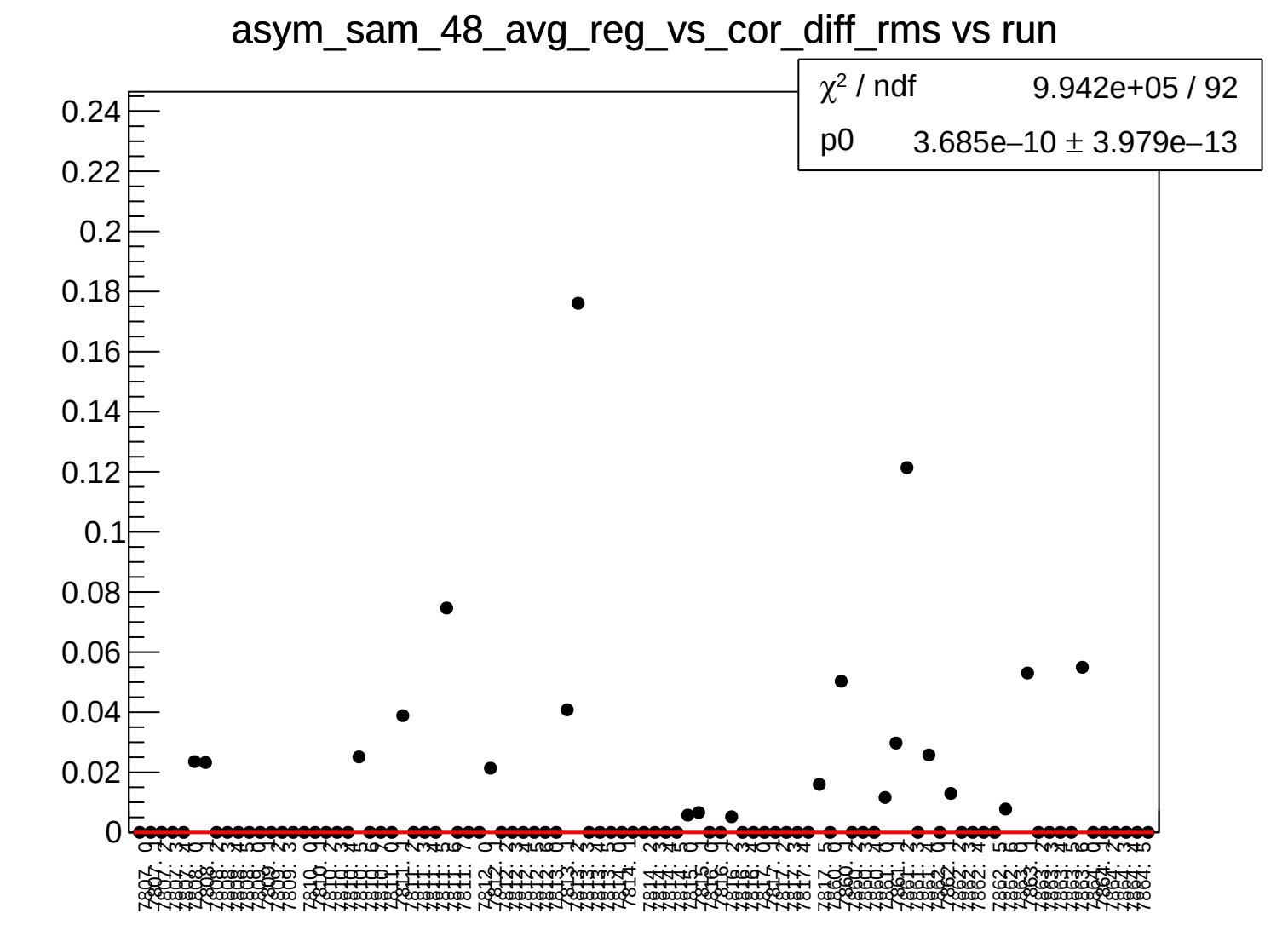

asym_sam_48_avg_eigen_dit_correction_rms vs run
χ² / ndf 4347 / 92
p0 2787 ± 2.051
3100
3000
2900
2800
2700
2600
2500
2400

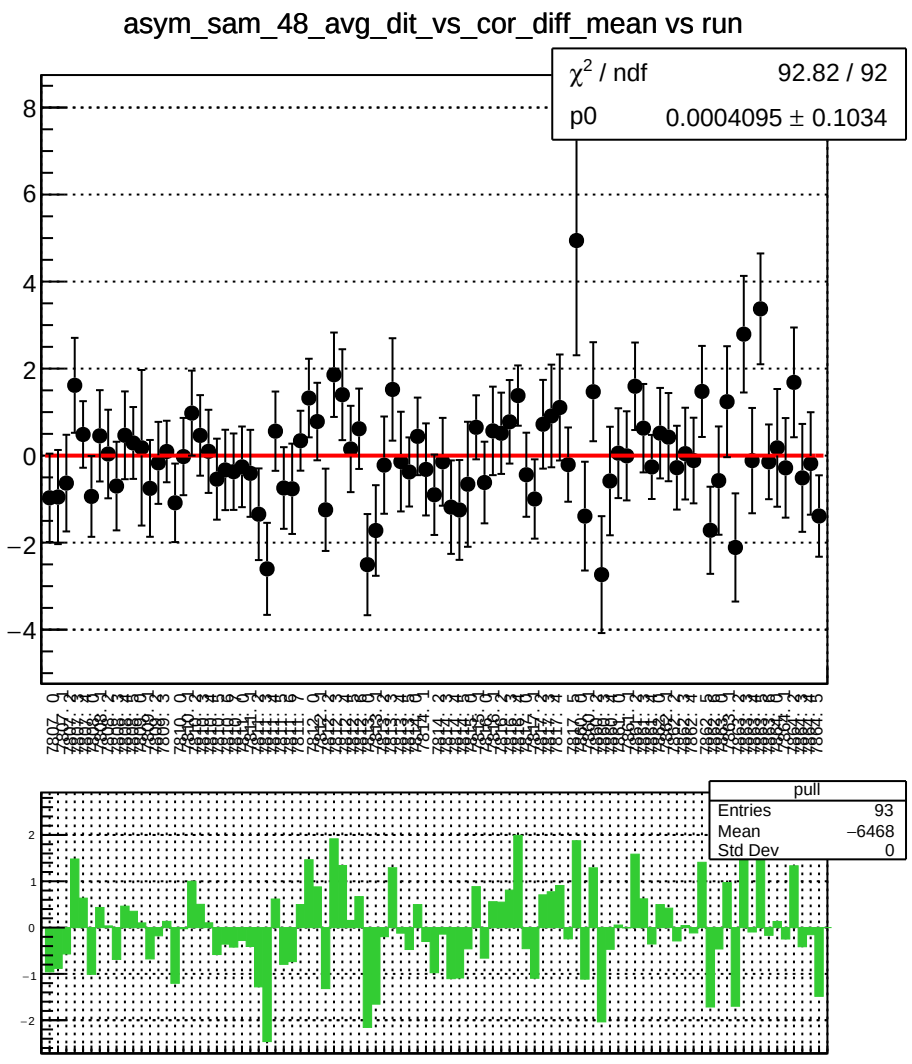

asym_sam_48_avg_mean vs run
×10^3
χ^2 / ndf 82.27 / 92
p0 1401 ± 2886
100
50
0
−50
−100
pull
Entries 93
Mean −44.28
Std Dev 0
2
1
0
−1
−2

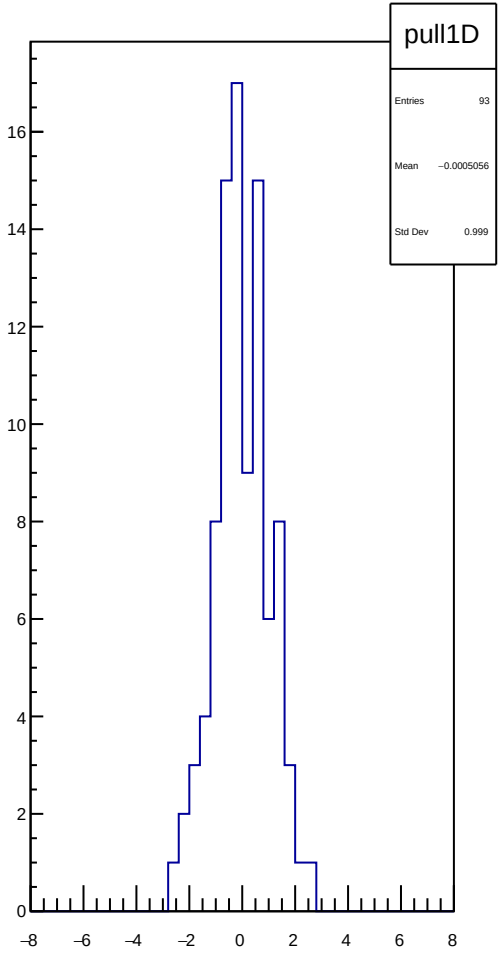

pull1D
Entries 93
Mean 0.01587
Std Dev 0.9404
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

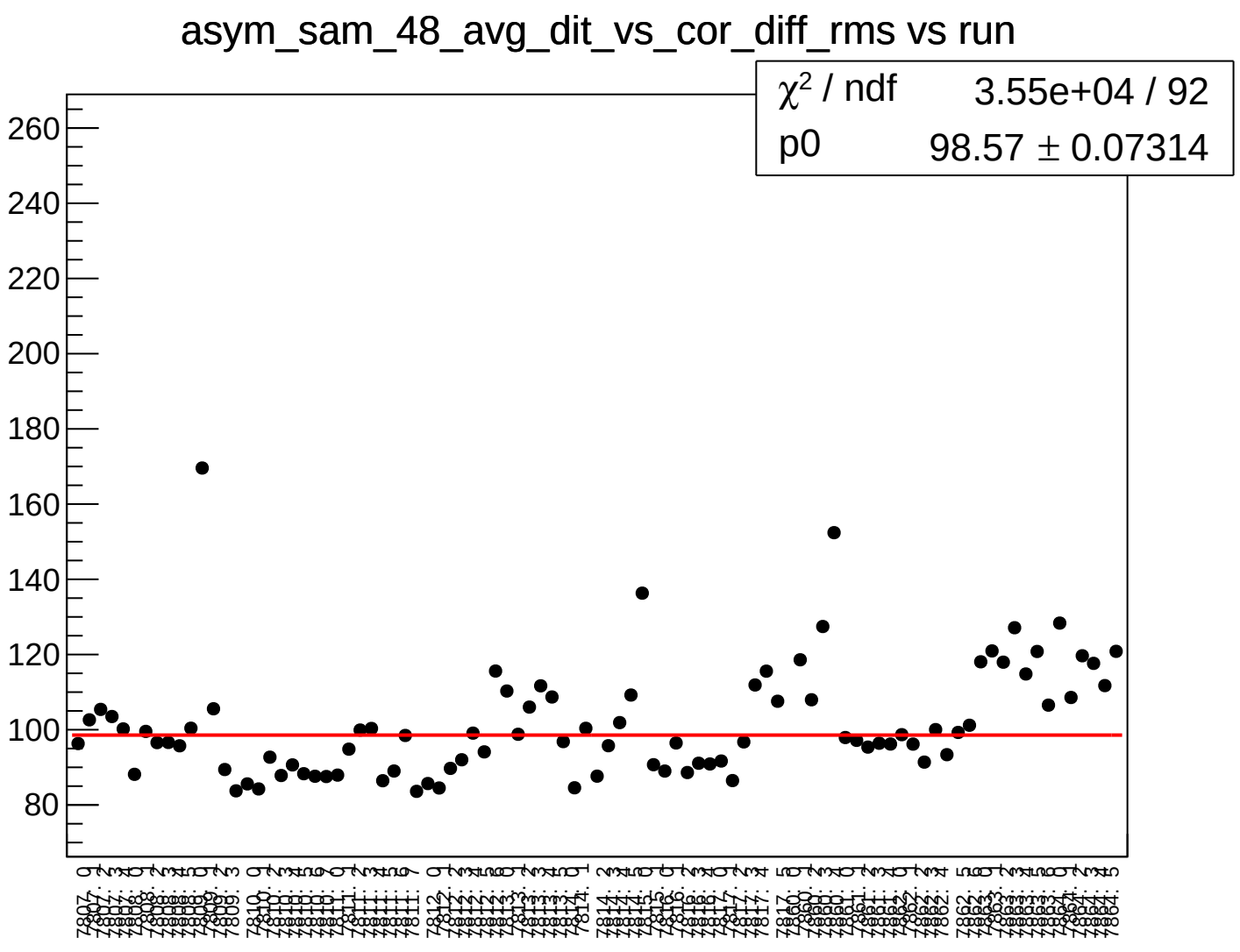

asym_sam_48_avg_rms vs run
χ² / ndf 5413 / 92
p0 2773 ± 2.041
3200
3100
3000
2900
2800
2700
2600
2500
2400

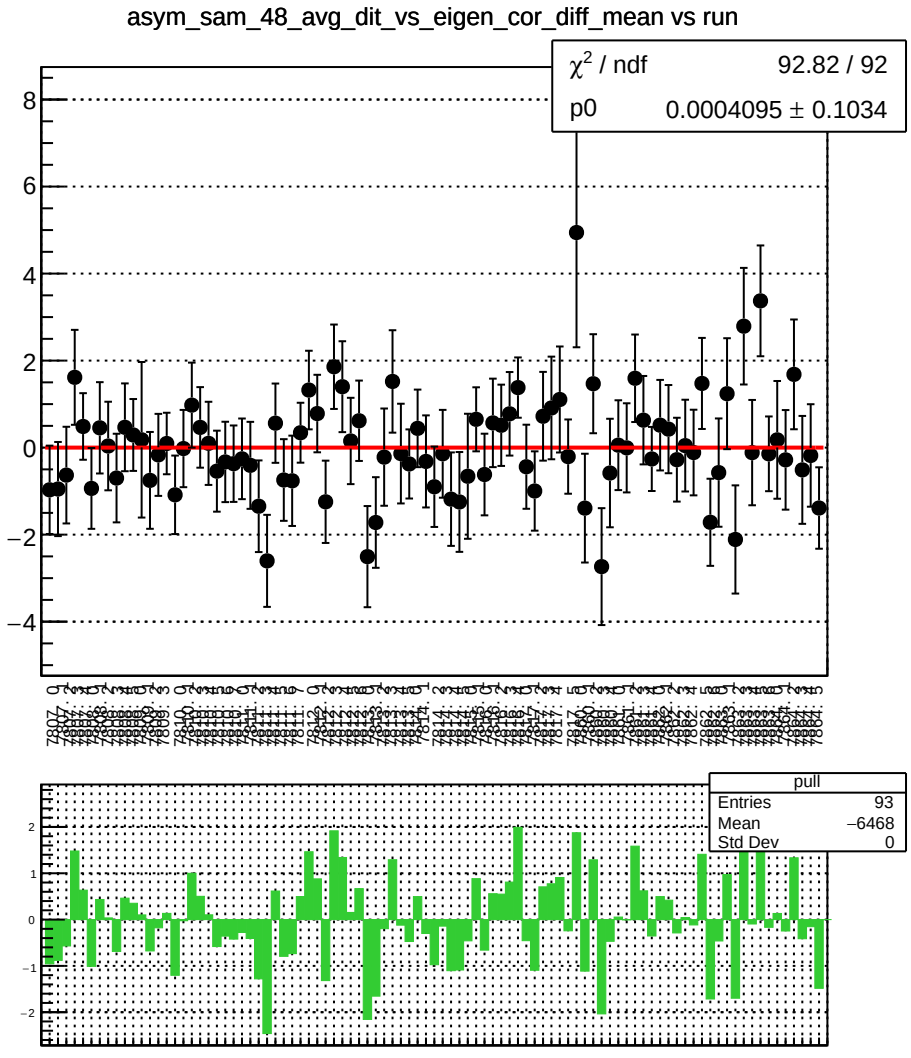

asym_sam_48_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 90.14 / 92
p0 5.018e−13 ± 5.627e−13
0.003
0.002
0.001
0
−0.001
−0.002
−0.003
pull
Entries 93
Mean 25.61
Std Dev 23.01
pull1D
Entries 93
Mean −0.1373
Std Dev 0.9749
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

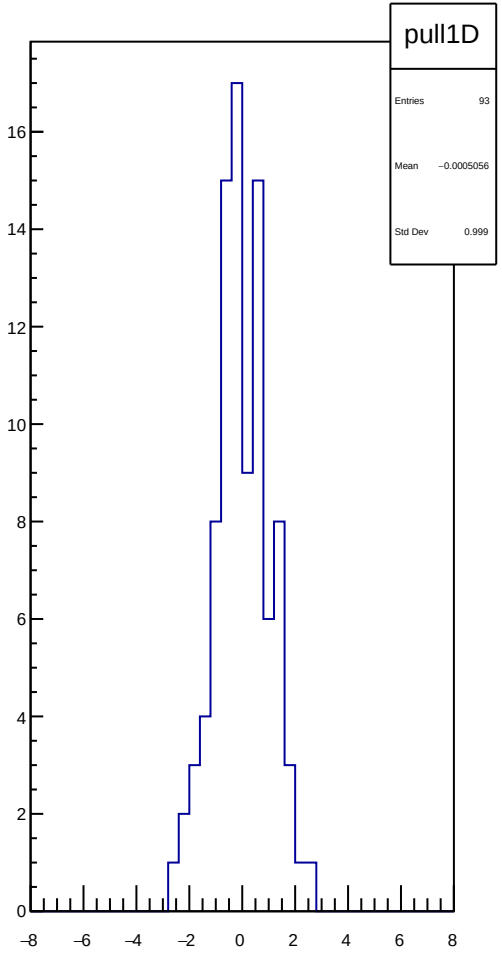

asym_sam_48_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.942e+05 / 92
p0 3.685e−10 ± 3.979e−13
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

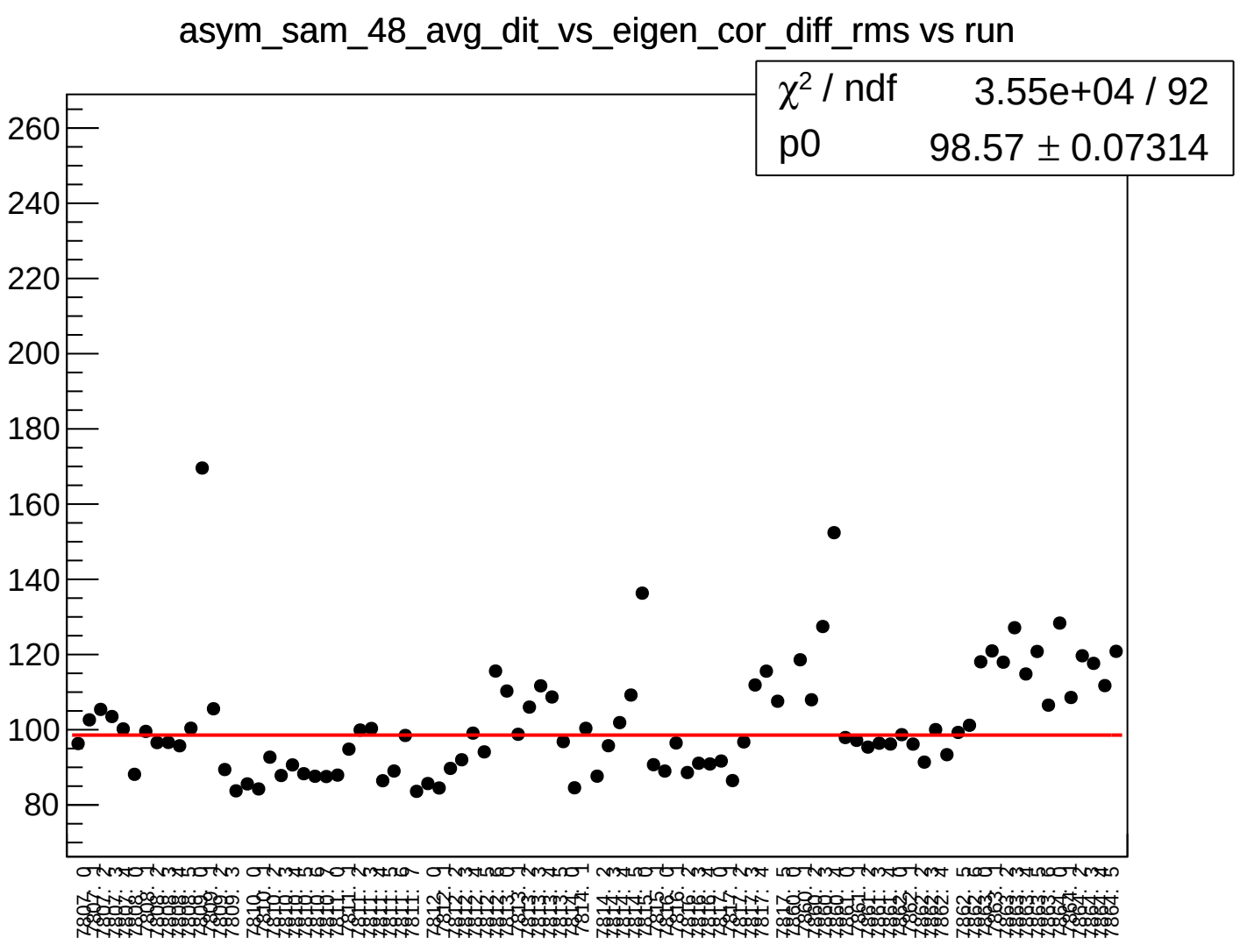

asym_sam_48_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 92.82 / 92
p0 0.0004095 ± 0.1034
pull
Entries 93
Mean −6468
Std Dev 0

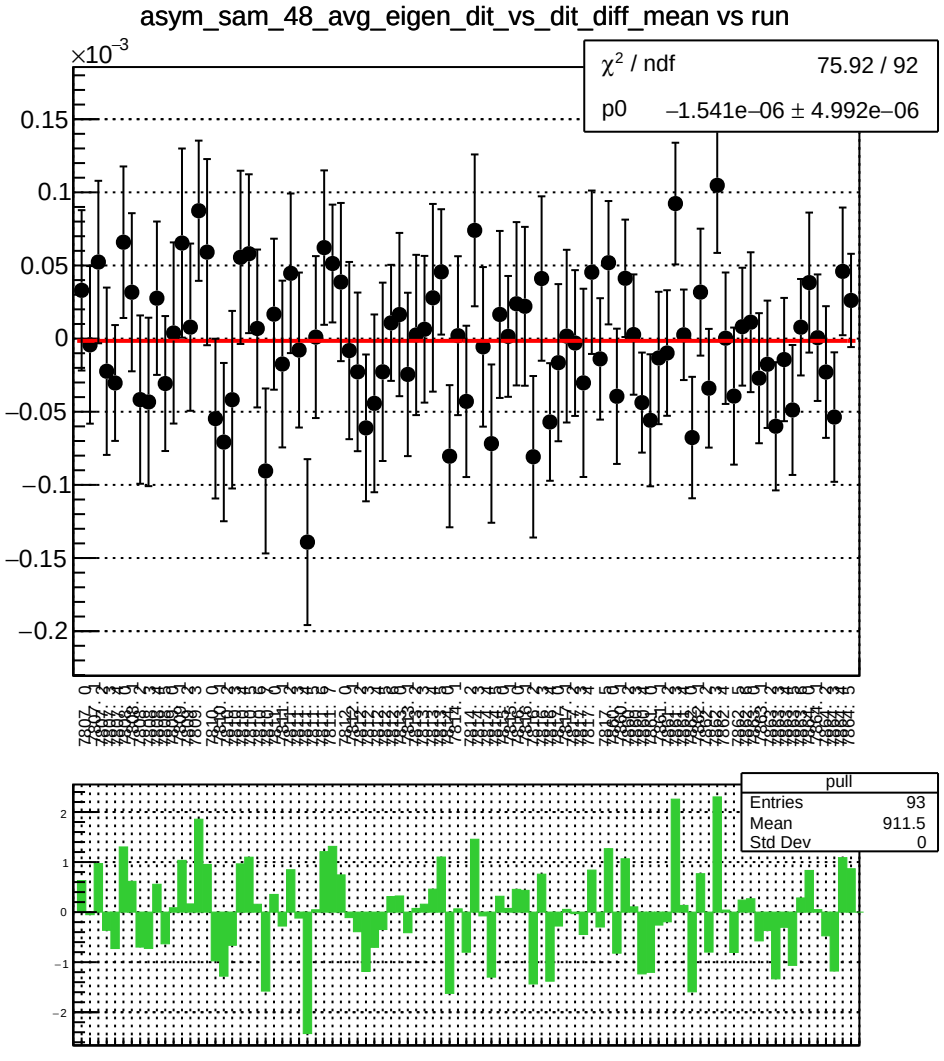

pull1D
Entries 93
Mean −0.0005056
Std Dev 0.999

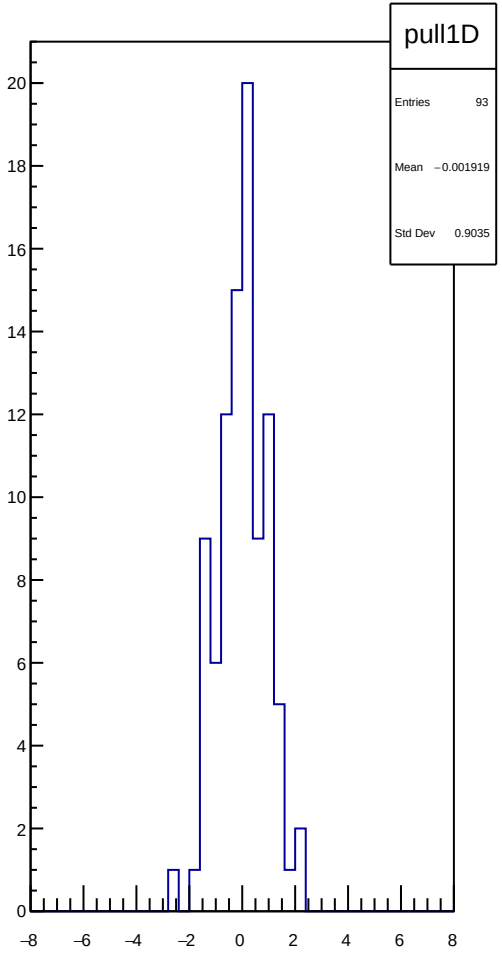

asym_sam_48_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.55e+04 / 92
p0 98.57 ± 0.07314
260
240
220
200
180
160
140
120
100
80

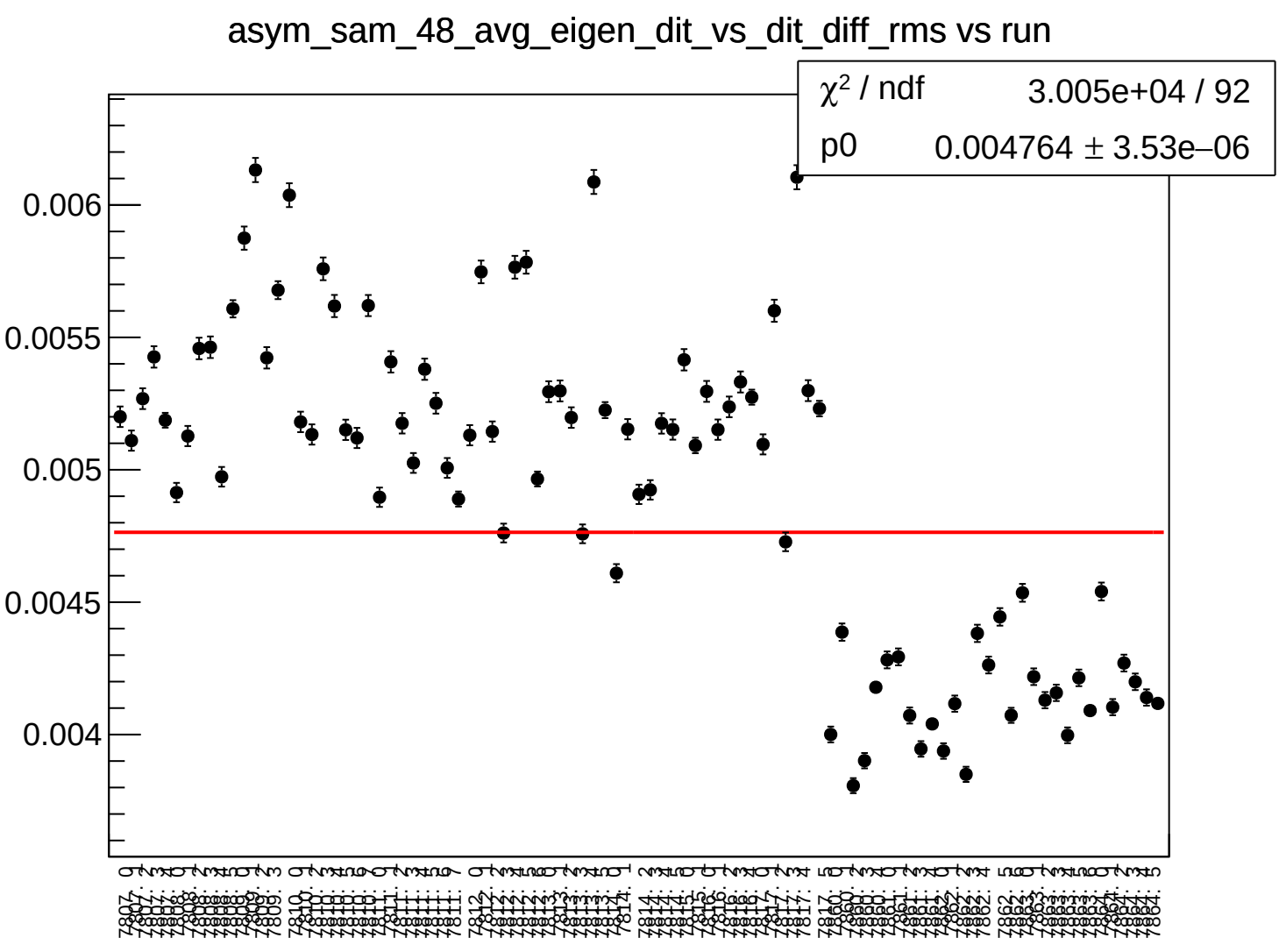

asym_sam_48_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.82 / 92
p0 0.0004095 ± 0.1034
pull
Entries 93
Mean −6468
Std Dev 0

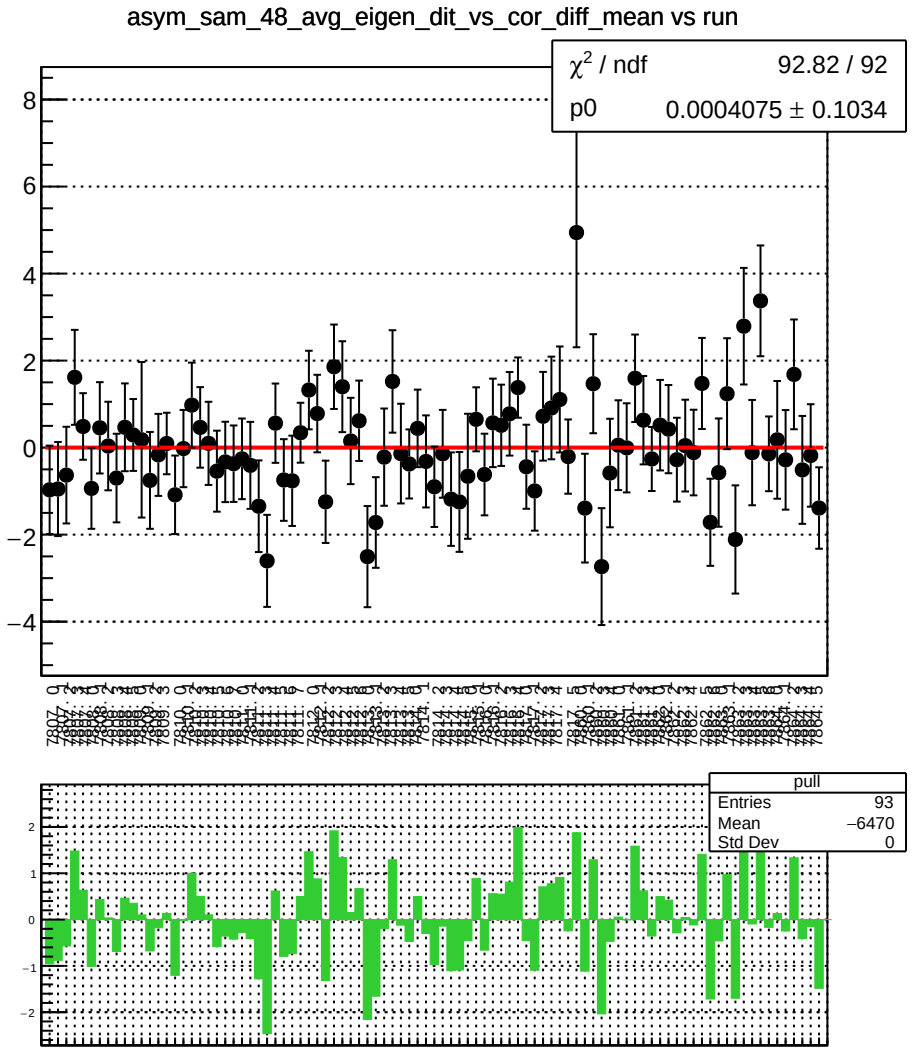

pull1D
Entries 93
Mean −0.0005056
Std Dev 0.999

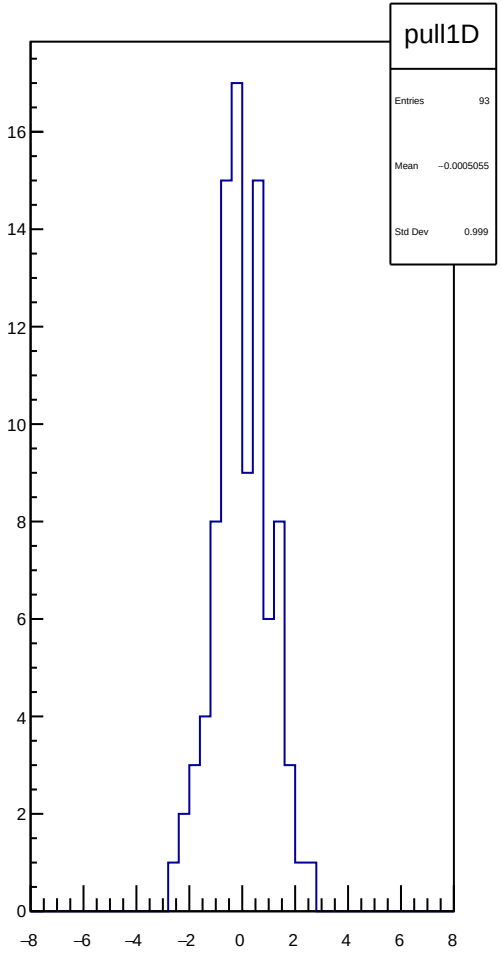

asym_sam_48_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.55e+04 / 92
p0 98.57 ± 0.07314
260
240
220
200
180
160
140
120
100
80

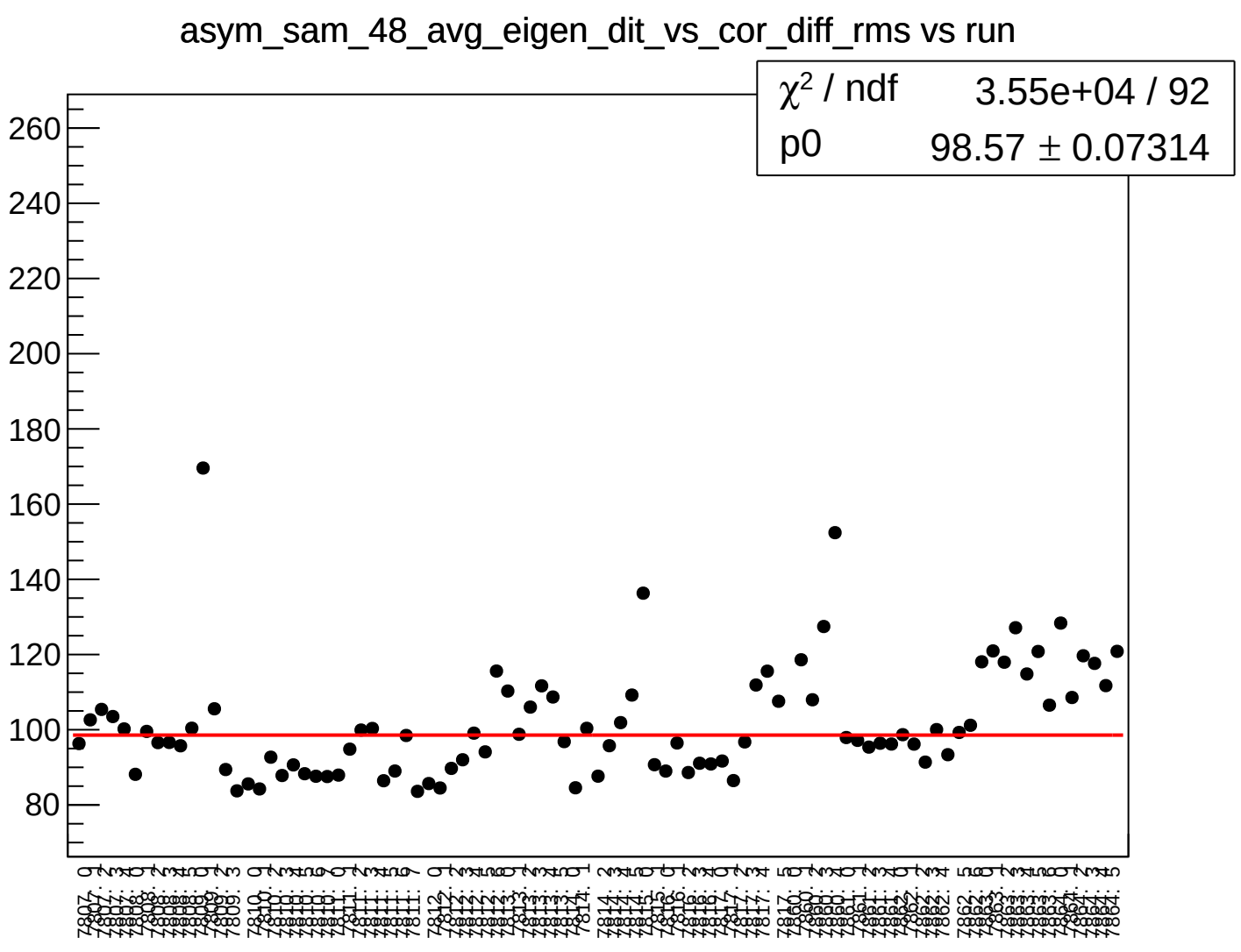

asym_sam_48_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 75.92 / 92
p0 −1.541e−06 ± 4.992e−06
pull
Entries 93
Mean 911.5
Std Dev 0

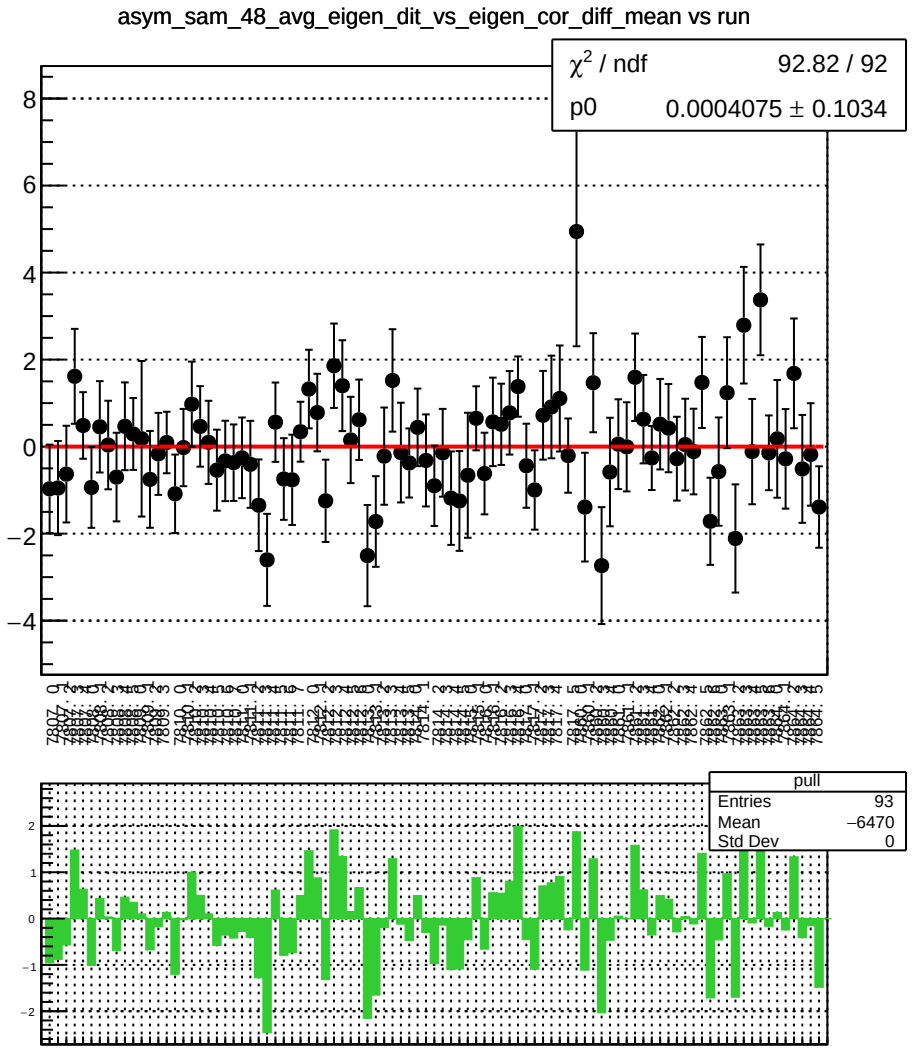

pull1D
Entries 93
Mean −0.001919
Std Dev 0.9035

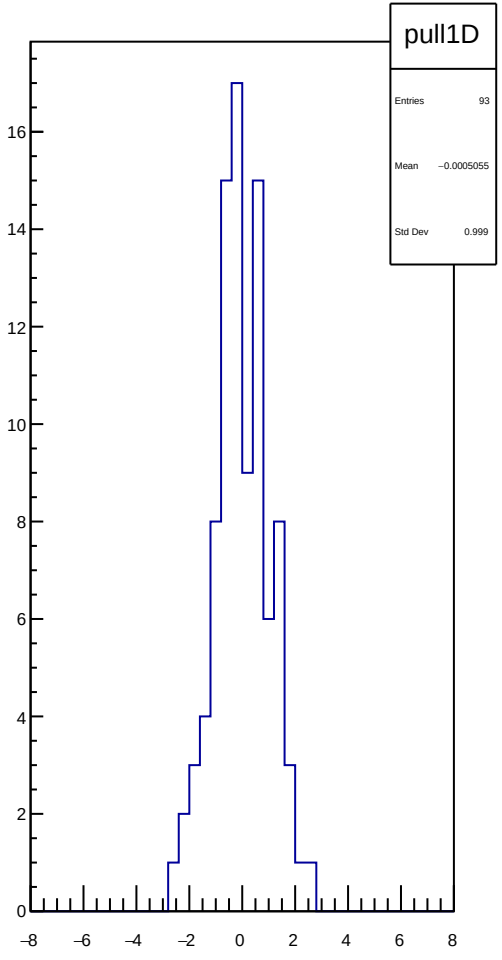

asym_sam_48_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.005e+04 / 92
p0 0.004764 ± 3.53e−06
0.006
0.0055
0.005
0.0045
0.004

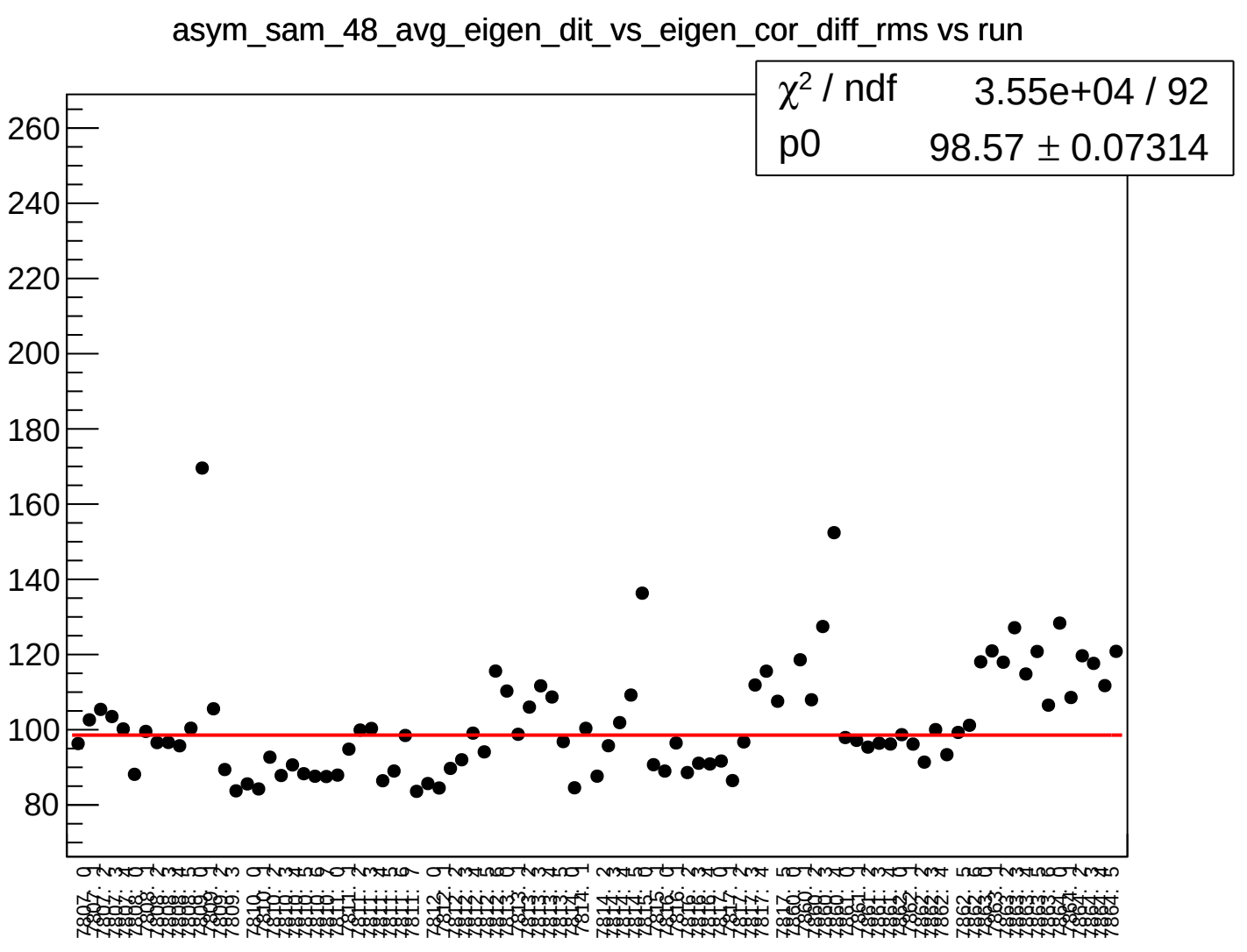

asym_sam_48_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.82 / 92
p0 0.0004075 ± 0.1034
pull
Entries 93
Mean −6470
Std Dev 0

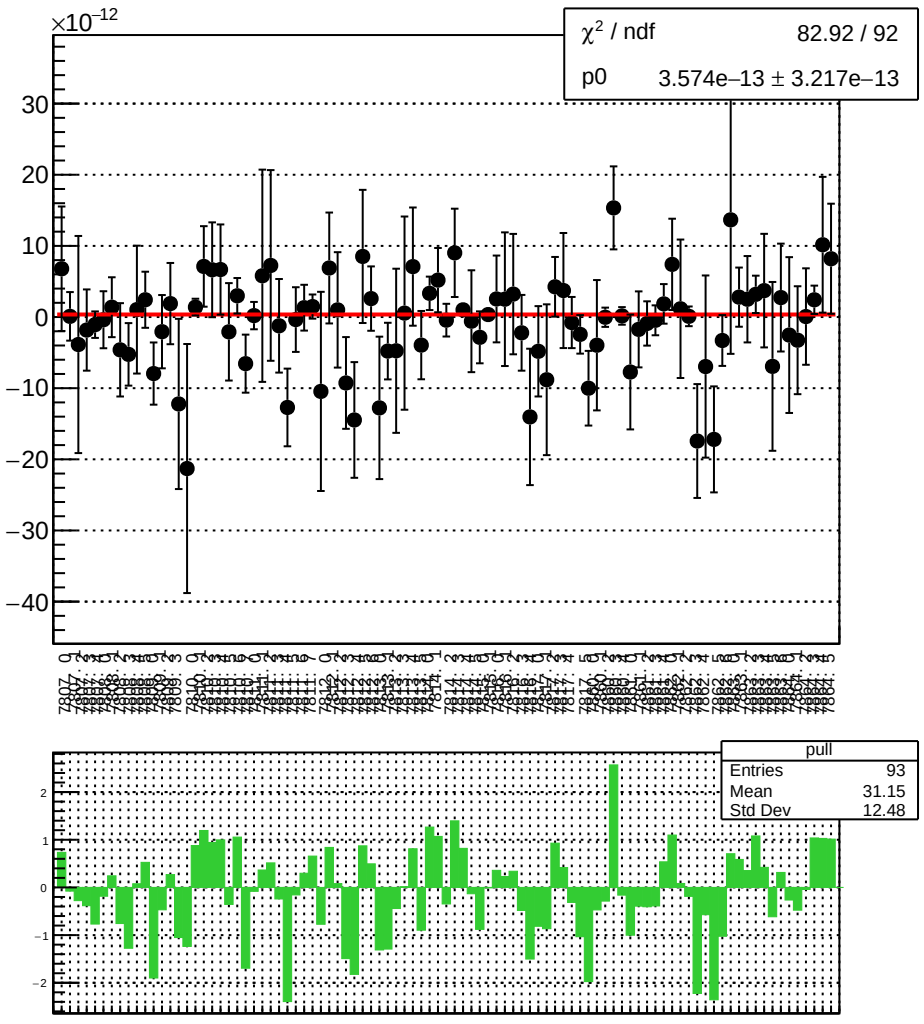

pull1D
Entries 93
Mean −0.0005055
Std Dev 0.999

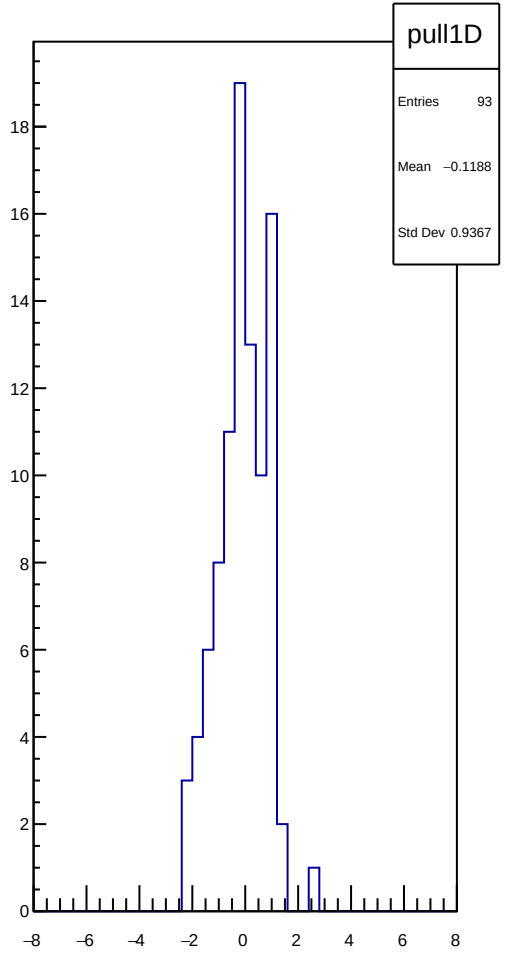

asym_sam_48_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.55e+04 / 92
p0 98.57 ± 0.07314
260
240
220
200
180
160
140
120
100
80

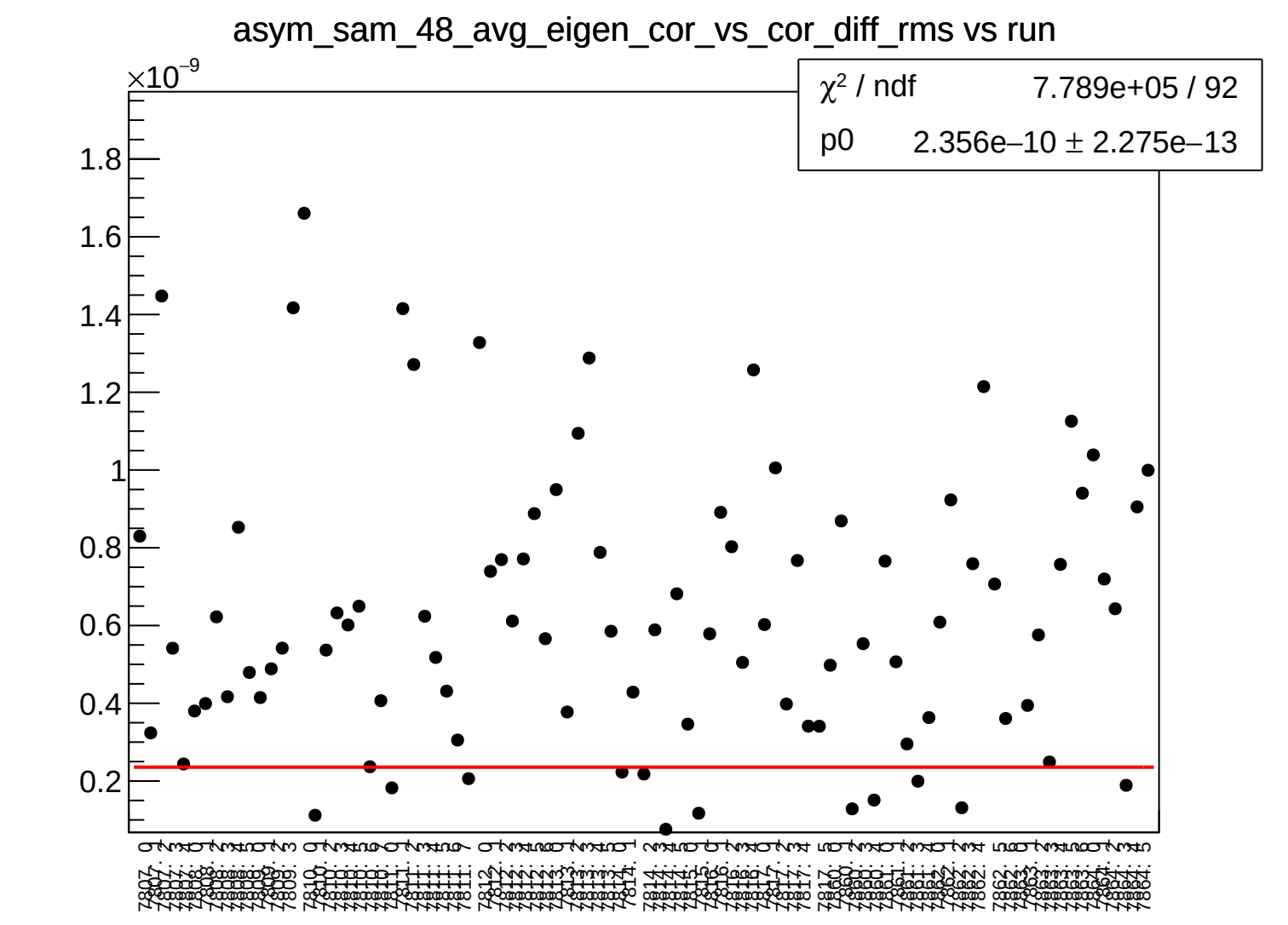

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.82 / 92
p0 0.0004075 ± 0.1034
pull
Entries 93
Mean −6470
Std Dev 0

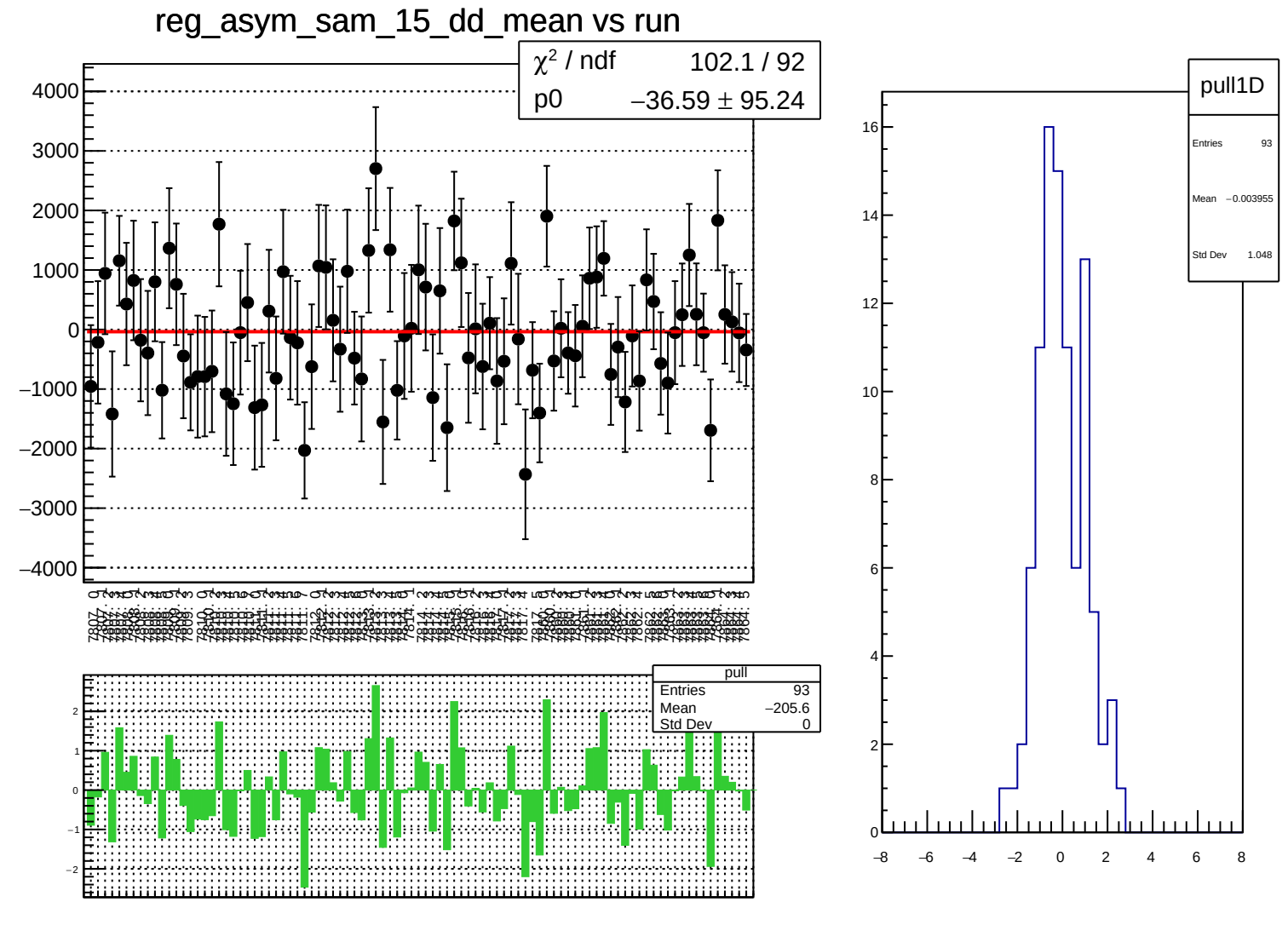

pull1D
Entries 93
Mean −0.0005055
Std Dev 0.999

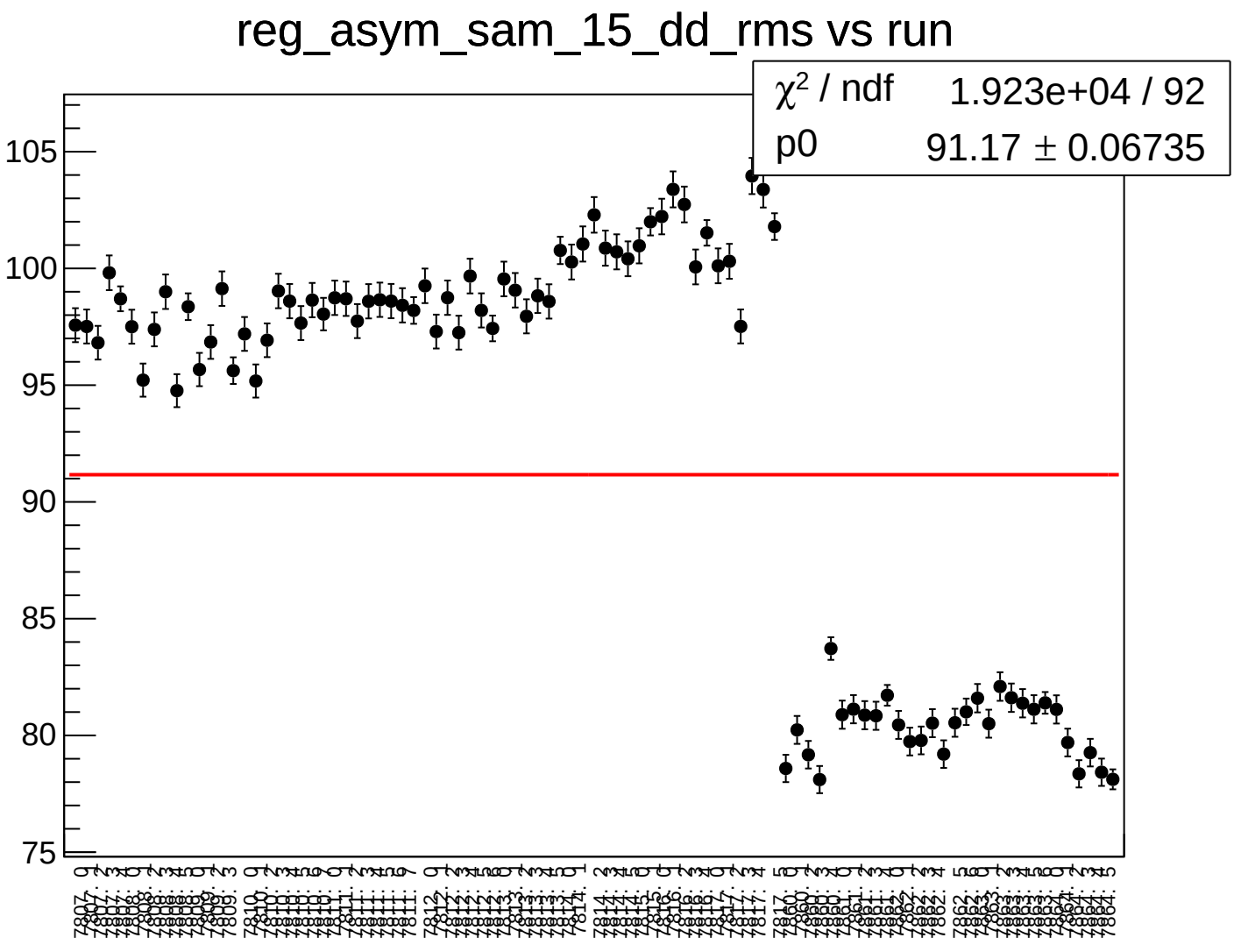

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.55e+04 / 92
p0 98.57 ± 0.07314
260
240
220
200
180
160
140
120
100
80

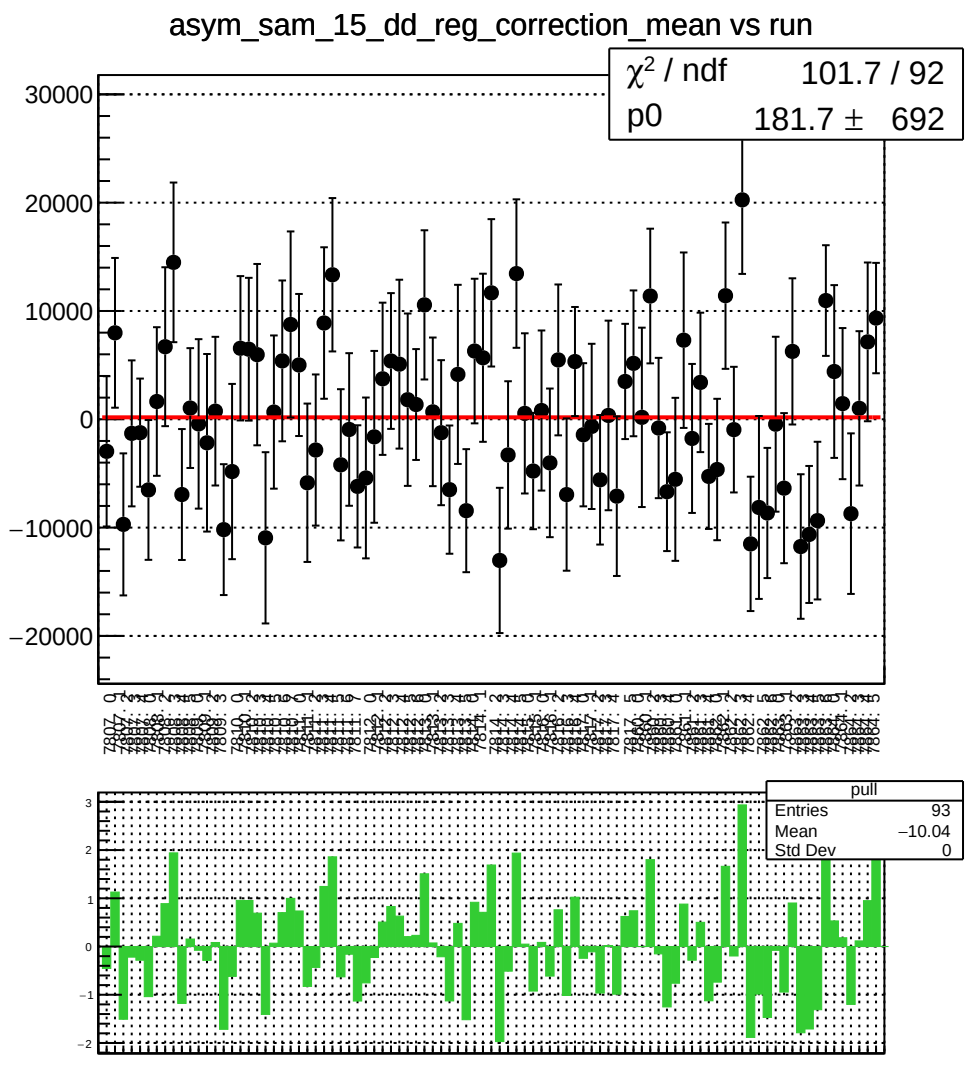

asym_sam_48_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.92 / 92
p0 3.574e−13 ± 3.217e−13
pull
Entries 93
Mean 31.15
Std Dev 12.48

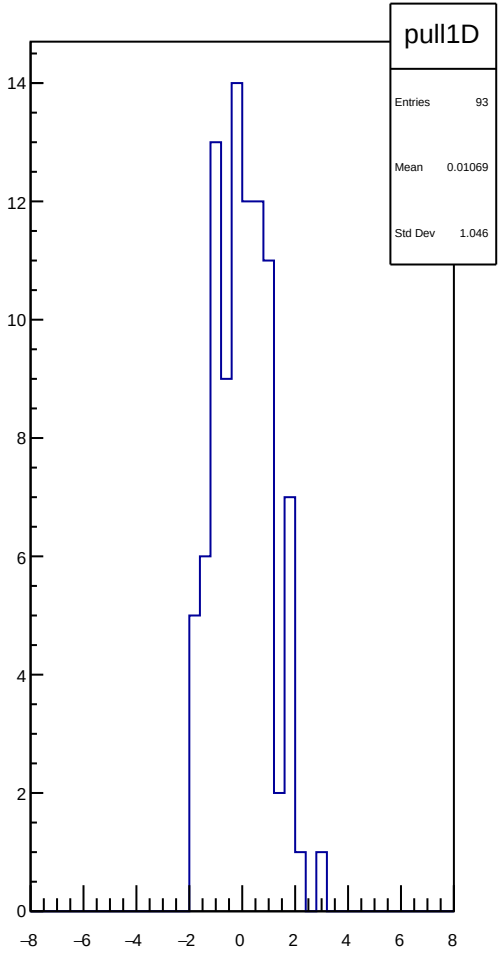

pull1D
Entries 93
Mean −0.1188
Std Dev 0.9367

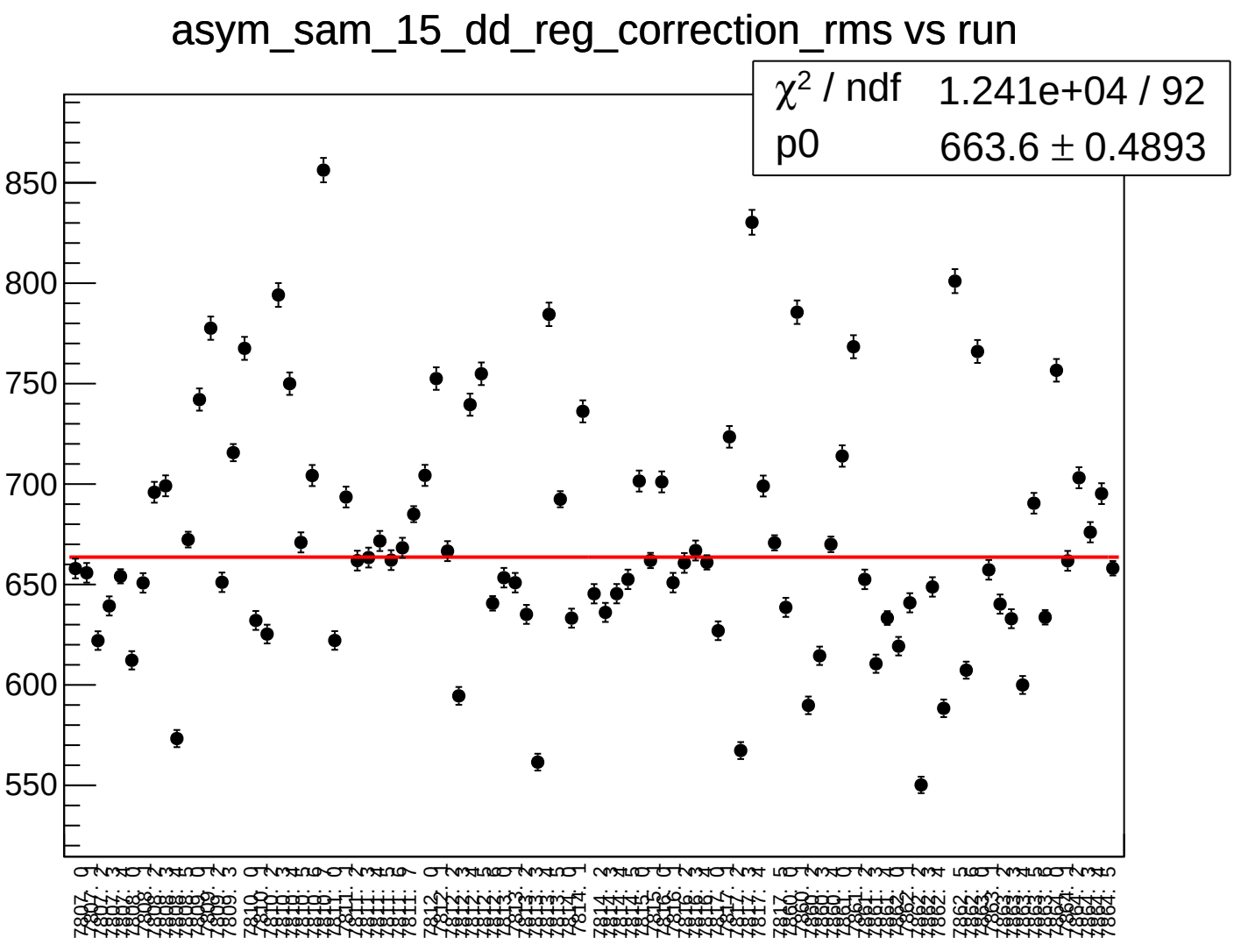

asym_sam_48_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.789e+05 / 92
p0 2.356e−10 ± 2.275e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

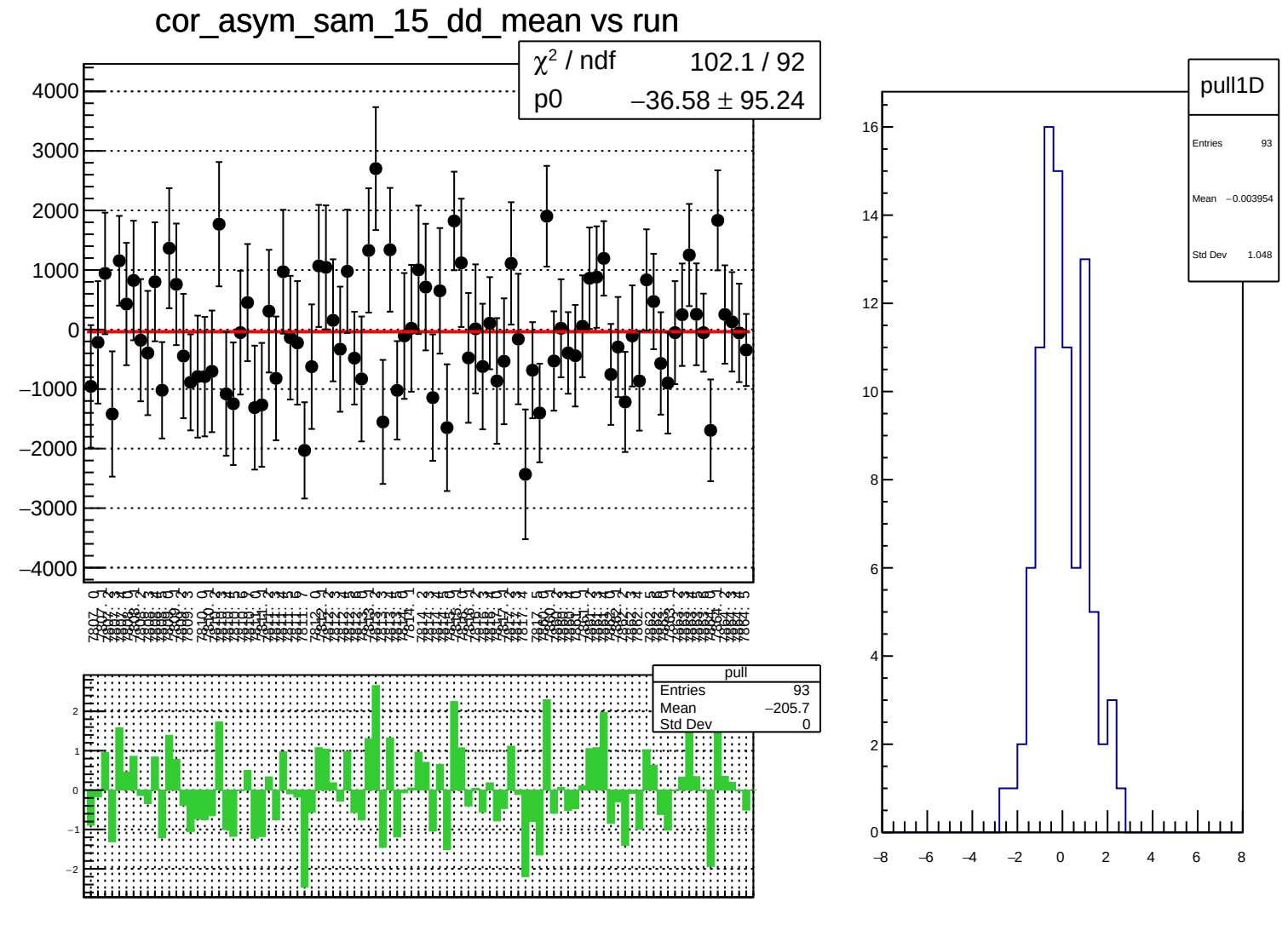

reg_asym_sam_15_dd_mean vs run
χ² / ndf 102.1 / 92
p0 −36.59 ± 95.24
pull
Entries 93
Mean −205.6
Std Dev 0
pull1D
Entries 93
Mean −0.003955
Std Dev 1.048

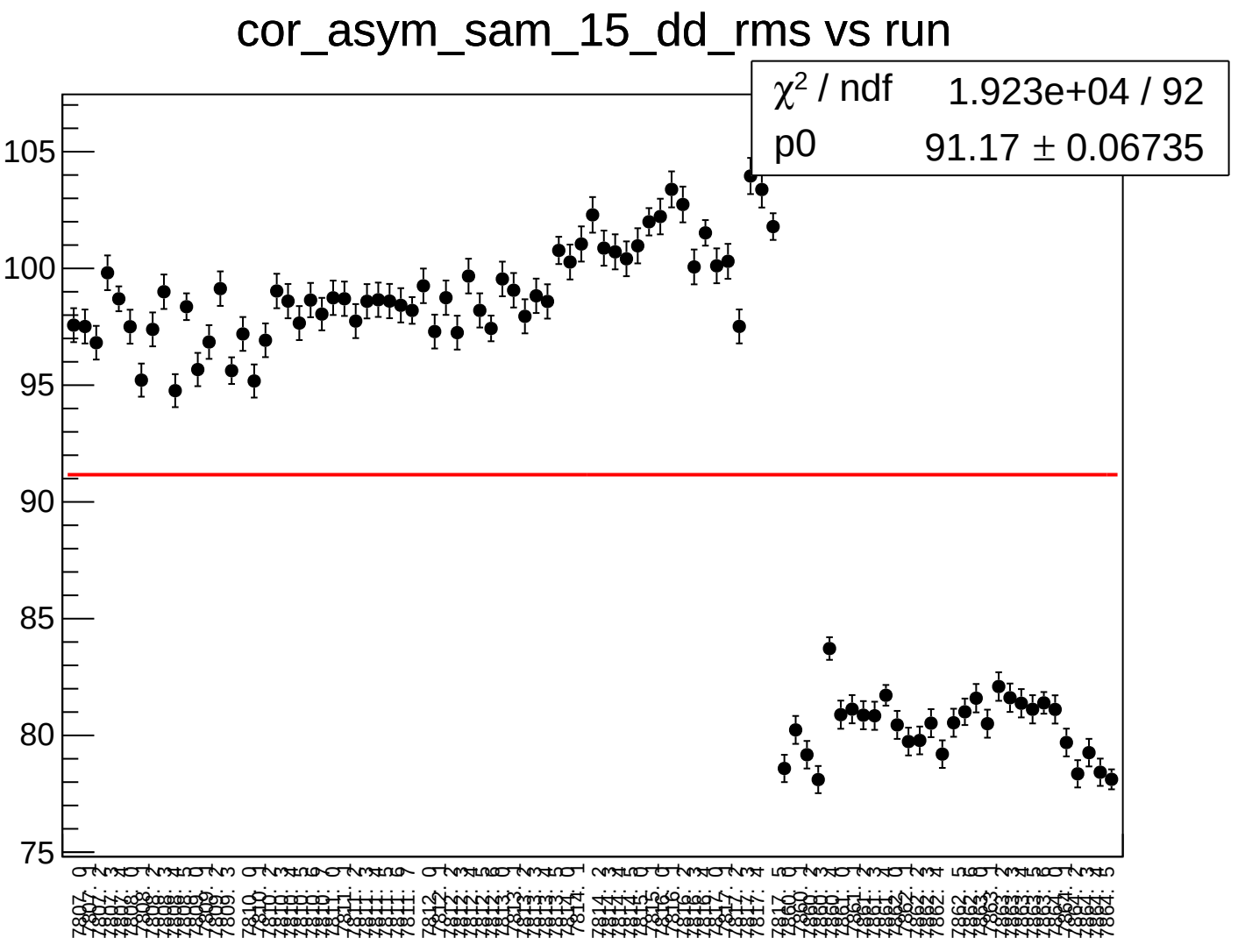

reg_asym_sam_15_dd_rms vs run
χ² / ndf 1.923e+04 / 92
p0 91.17 ± 0.06735
105
100
95
90
85
80
75

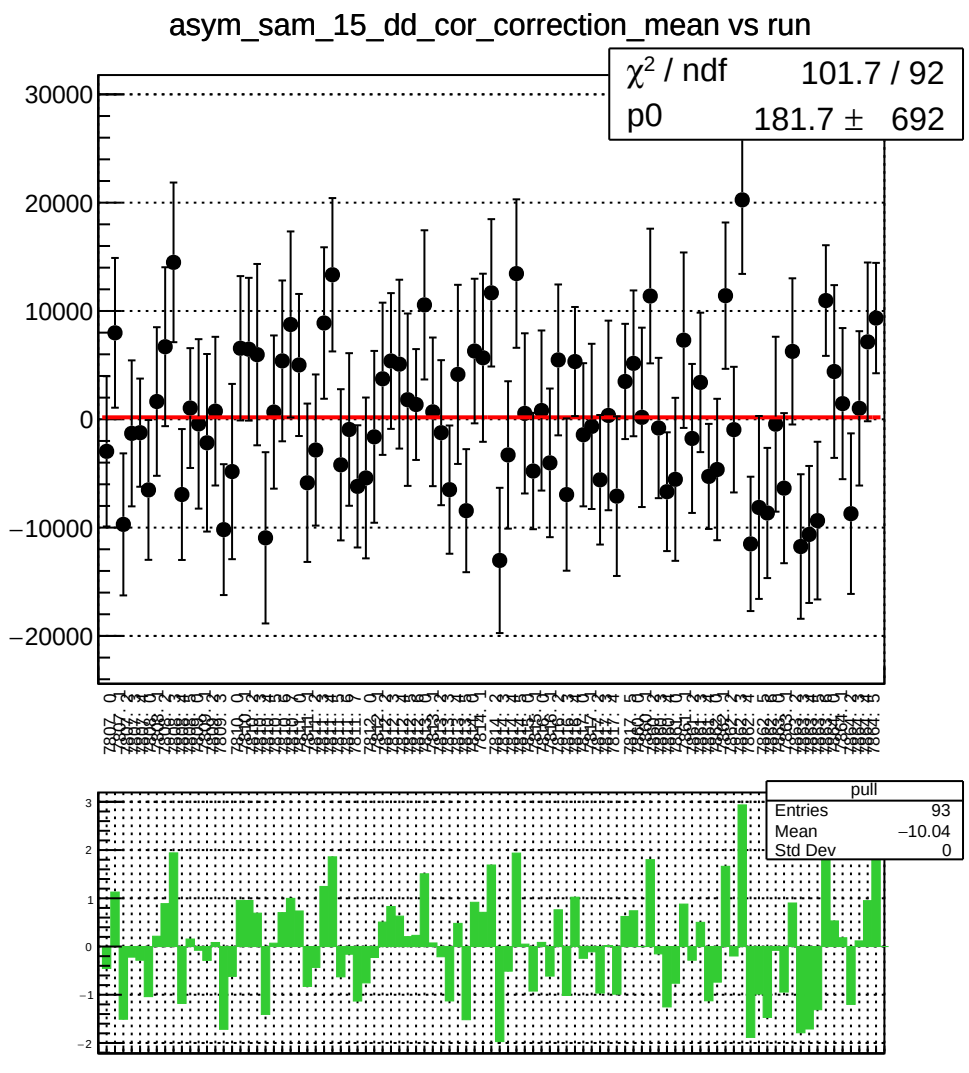

asym_sam_15_dd_reg_correction_mean vs run
χ² / ndf 101.7 / 92
p0 181.7 ± 692
30000
20000
10000
0
−10000
−20000
pull
Entries 93
Mean −10.04
Std Dev 0
3
2
1
0
−1
−2

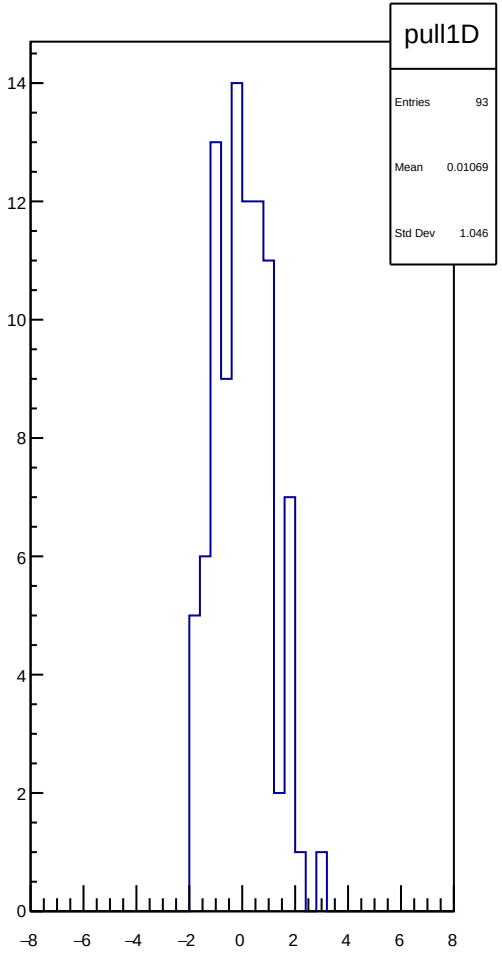

pull1D
Entries 93
Mean 0.01069
Std Dev 1.046
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

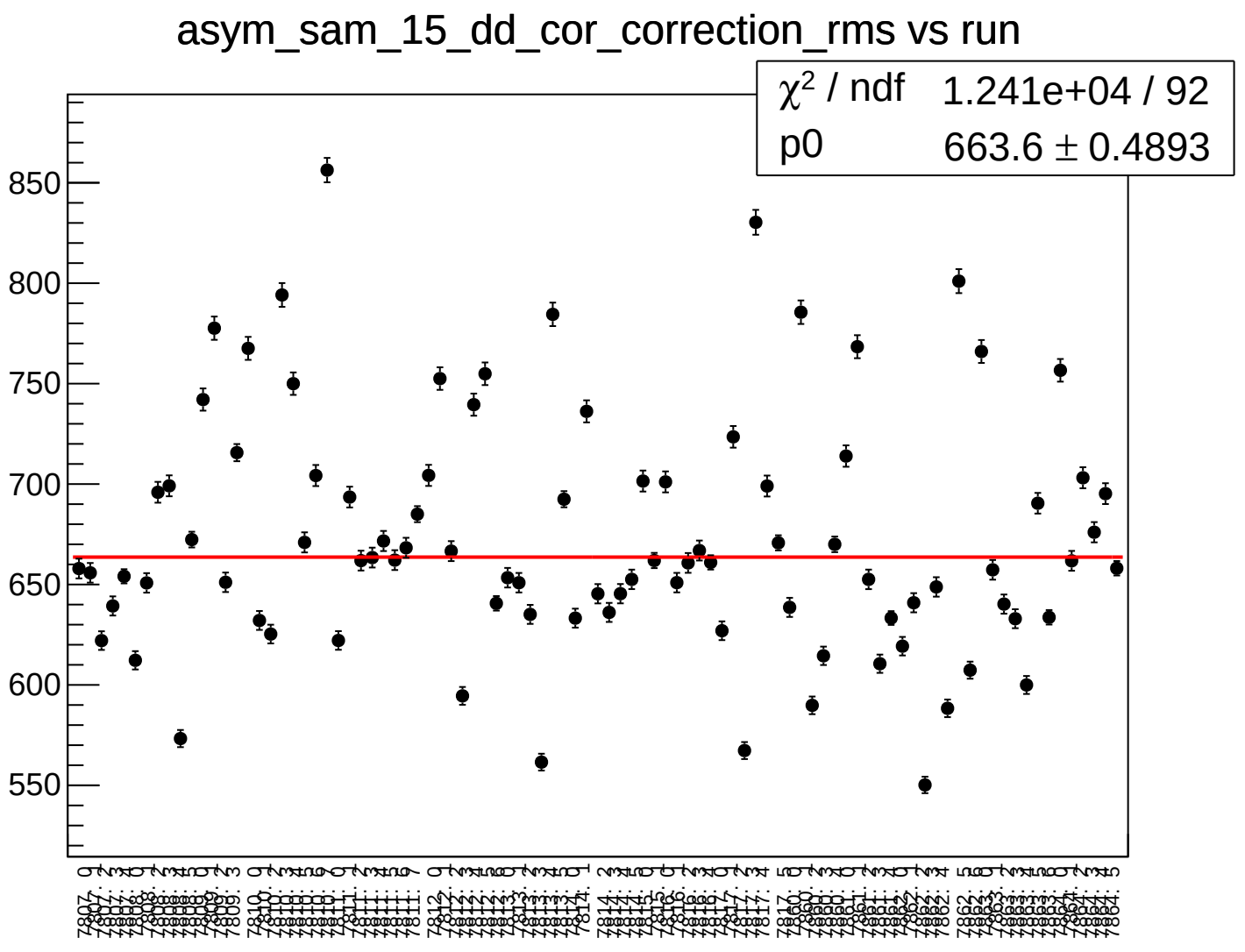

asym_sam_15_dd_reg_correction_rms vs run
χ^2 / ndf 1.241e+04 / 92
p0 663.6 ± 0.4893
850
800
750
700
650
600
550

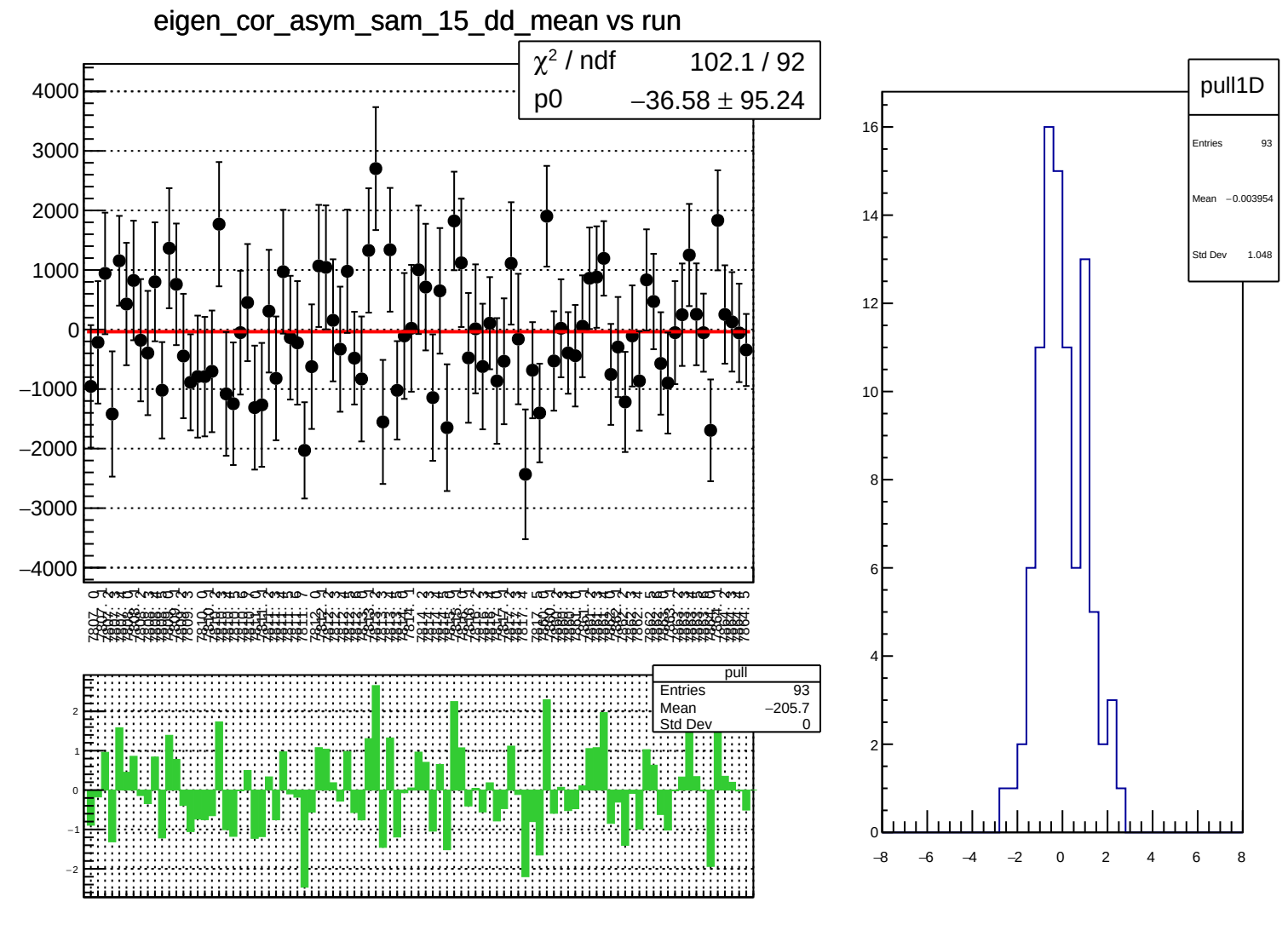

cor_asym_sam_15_dd_mean vs run
χ² / ndf 102.1 / 92
p0 −36.58 ± 95.24
pull
Entries 93
Mean −205.7
Std Dev 0
pull1D
Entries 93
Mean −0.003954
Std Dev 1.048

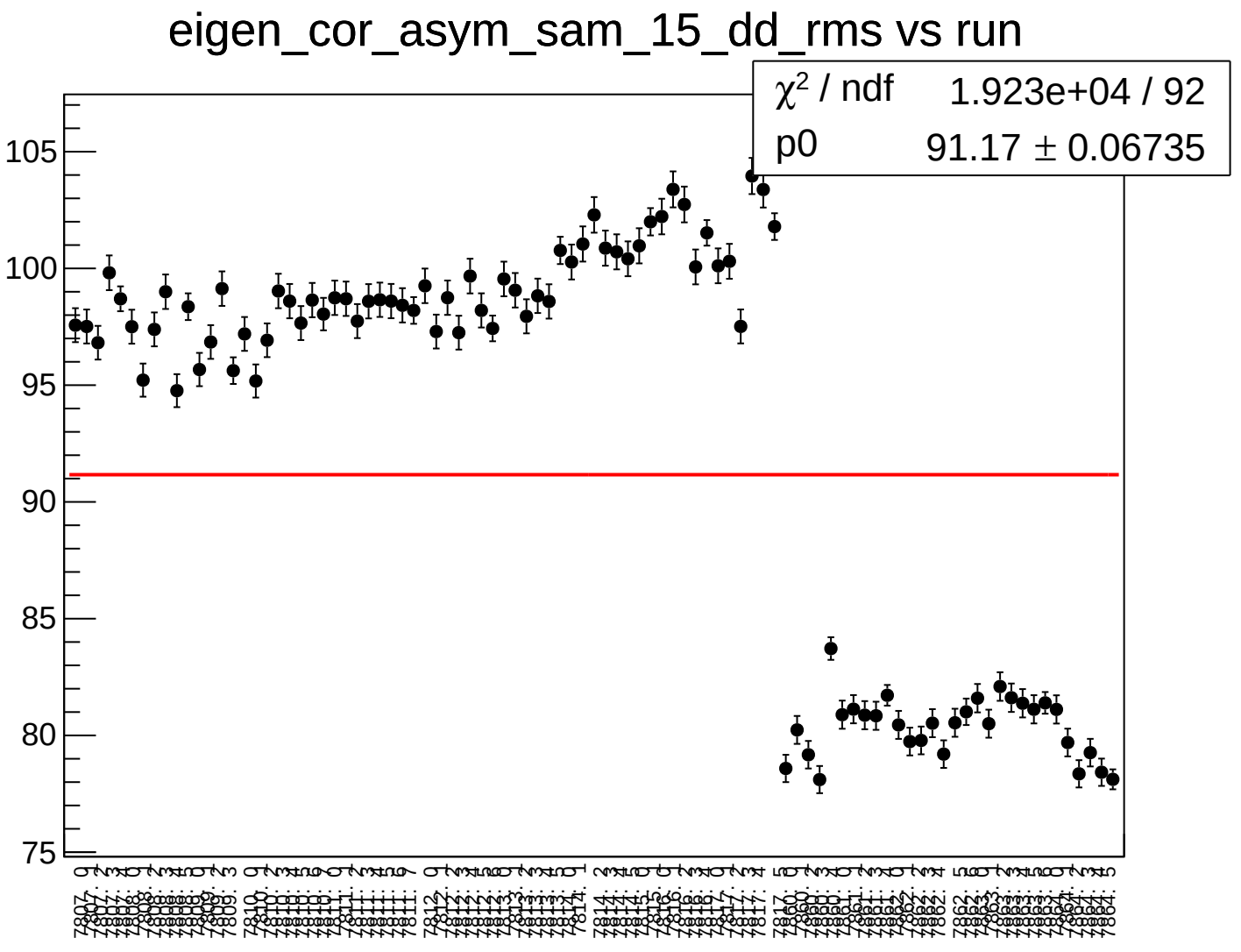

cor_asym_sam_15_dd_rms vs run
χ² / ndf 1.923e+04 / 92
p0 91.17 ± 0.06735
105
100
95
90
85
80
75

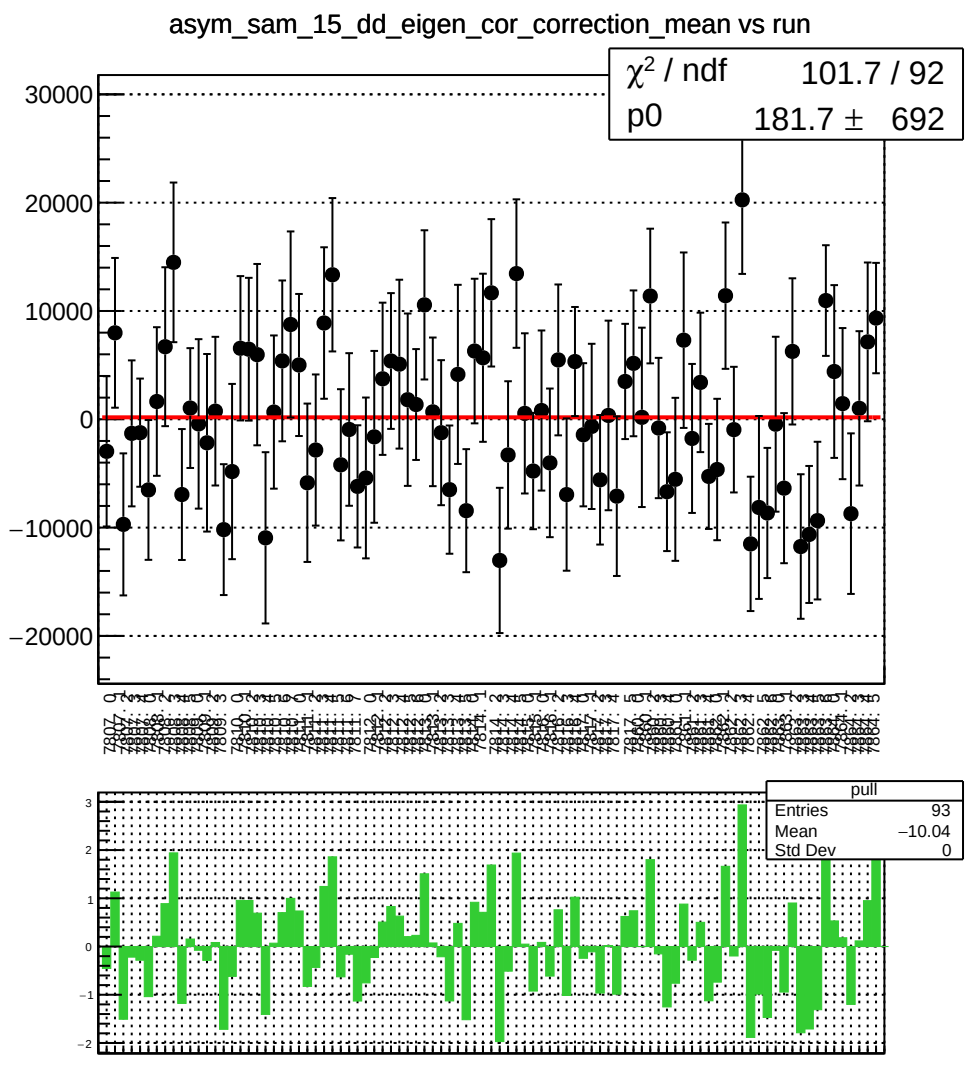

asym_sam_15_dd_cor_correction_mean vs run
χ² / ndf 101.7 / 92
p0 181.7 ± 692
30000
20000
10000
0
−10000
−20000
pull
Entries 93
Mean −10.04
Std Dev 0
3
2
1
0
−1
−2

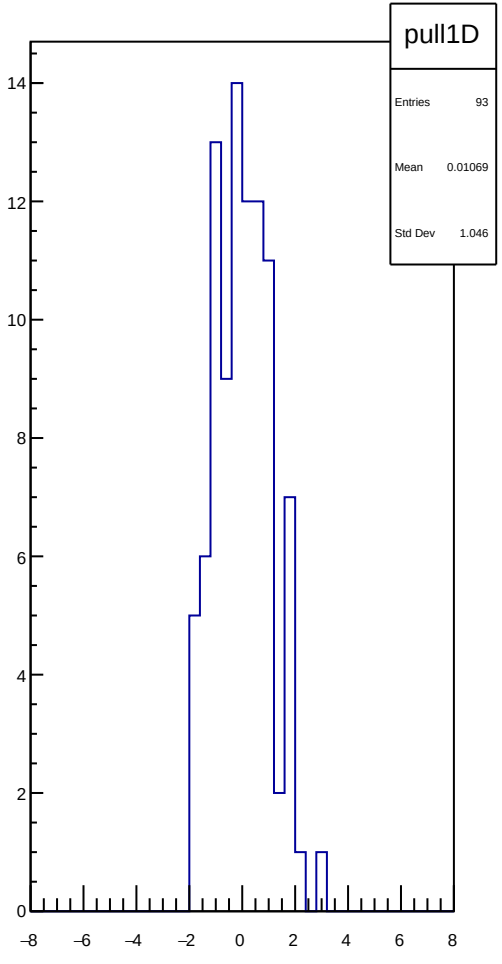

pull1D
Entries 93
Mean 0.01069
Std Dev 1.046
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

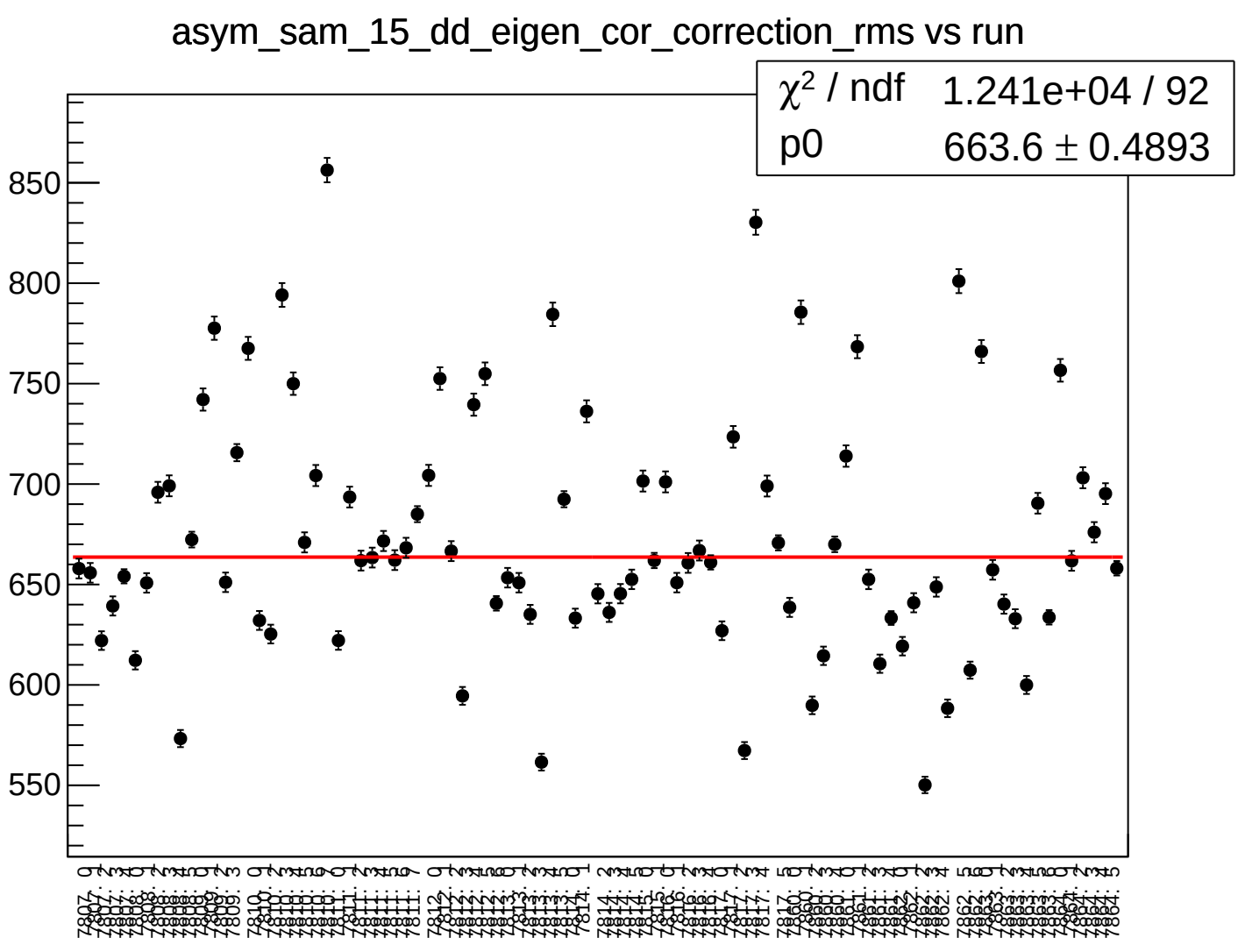

asym_sam_15_dd_cor_correction_rms vs run
χ² / ndf 1.241e+04 / 92
p0 663.6 ± 0.4893
850
800
750
700
650
600
550

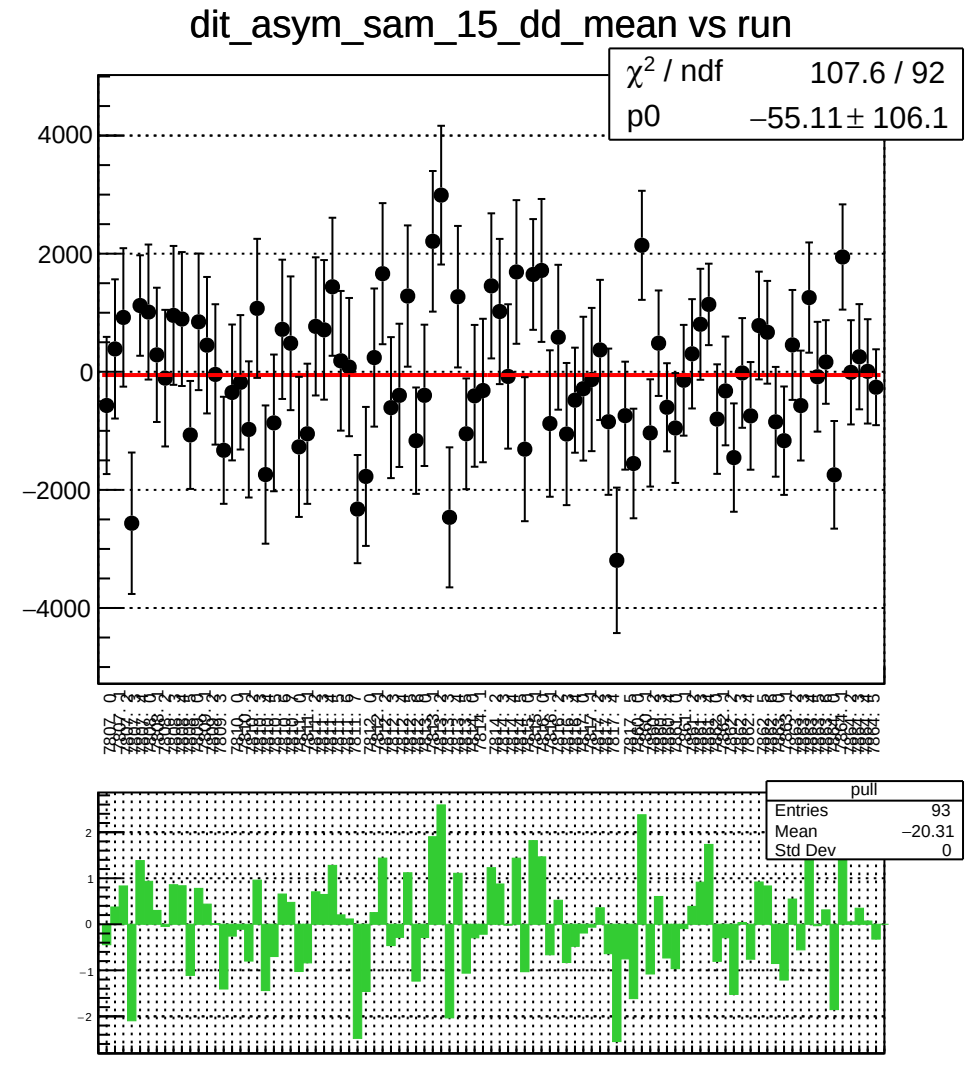

eigen_cor_asym_sam_15_dd_mean vs run
χ² / ndf 102.1 / 92
p0 −36.58 ± 95.24
pull
Entries 93
Mean −205.7
Std Dev 0
pull1D
Entries 93
Mean −0.003954
Std Dev 1.048

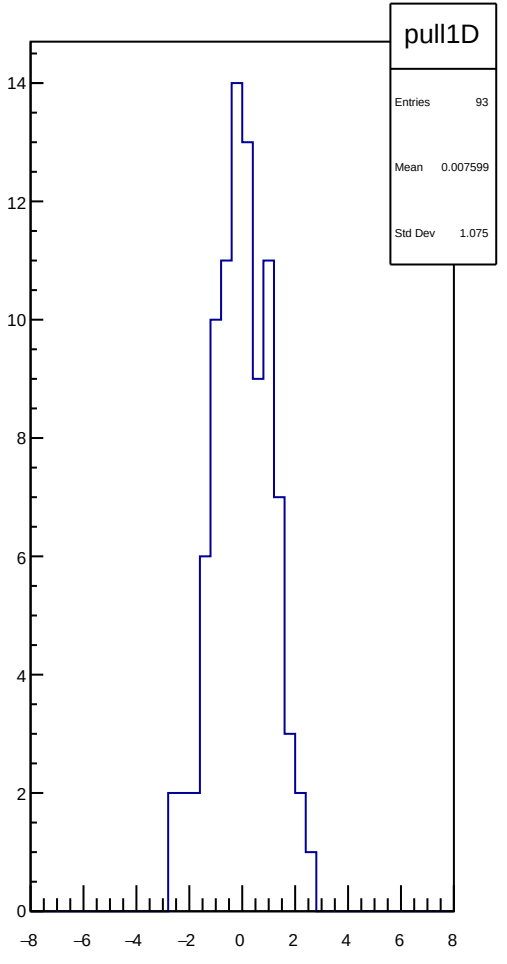

eigen_cor_asym_sam_15_dd_rms vs run
χ² / ndf 1.923e+04 / 92
p0 91.17 ± 0.06735
105
100
95
90
85
80
75

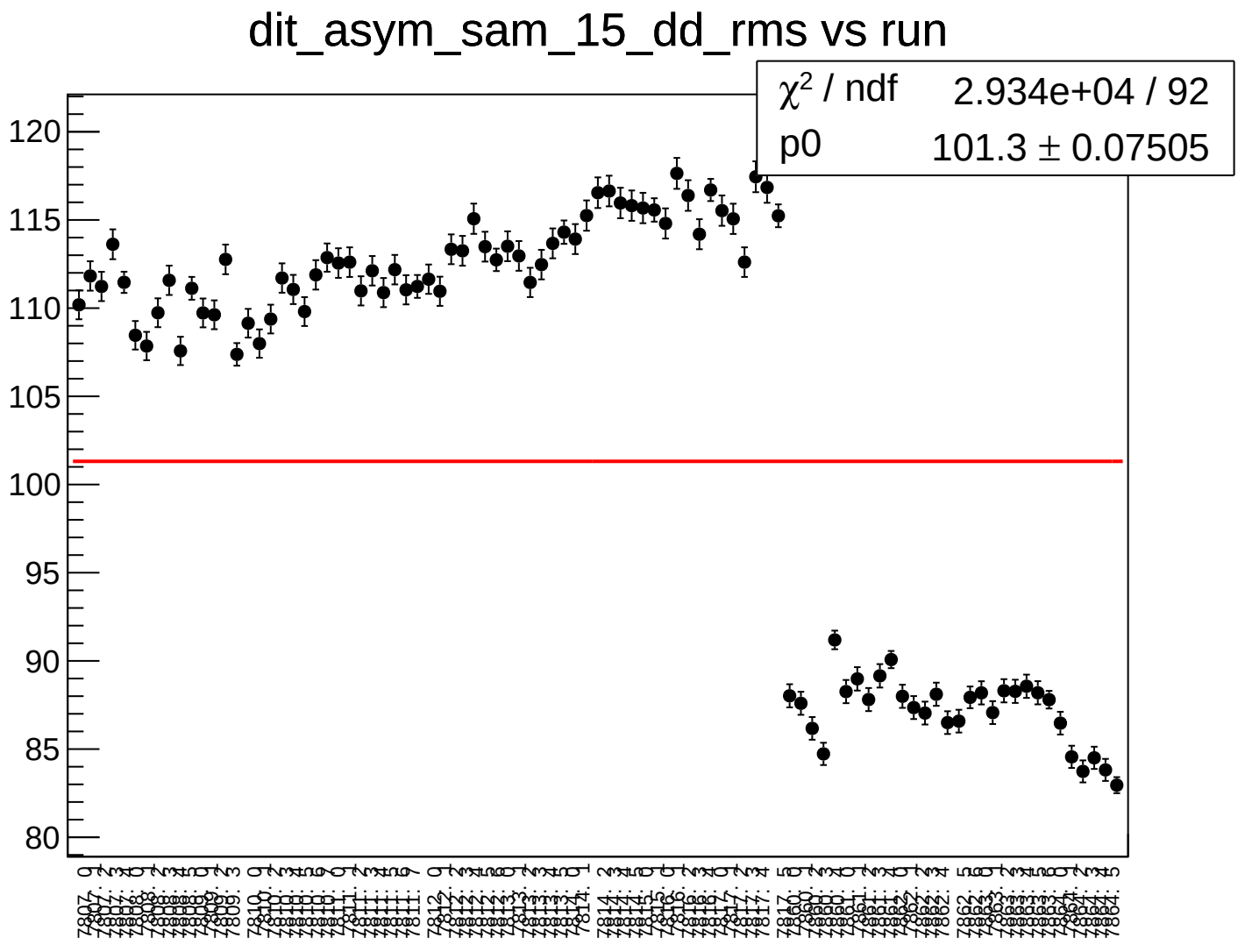

asym_sam_15_dd_eigen_cor_correction_mean vs run
χ² / ndf 101.7 / 92
p0 181.7 ± 692
30000
20000
10000
0
−10000
−20000
pull
Entries 93
Mean −10.04
Std Dev 0
3
2
1
0
−1
−2

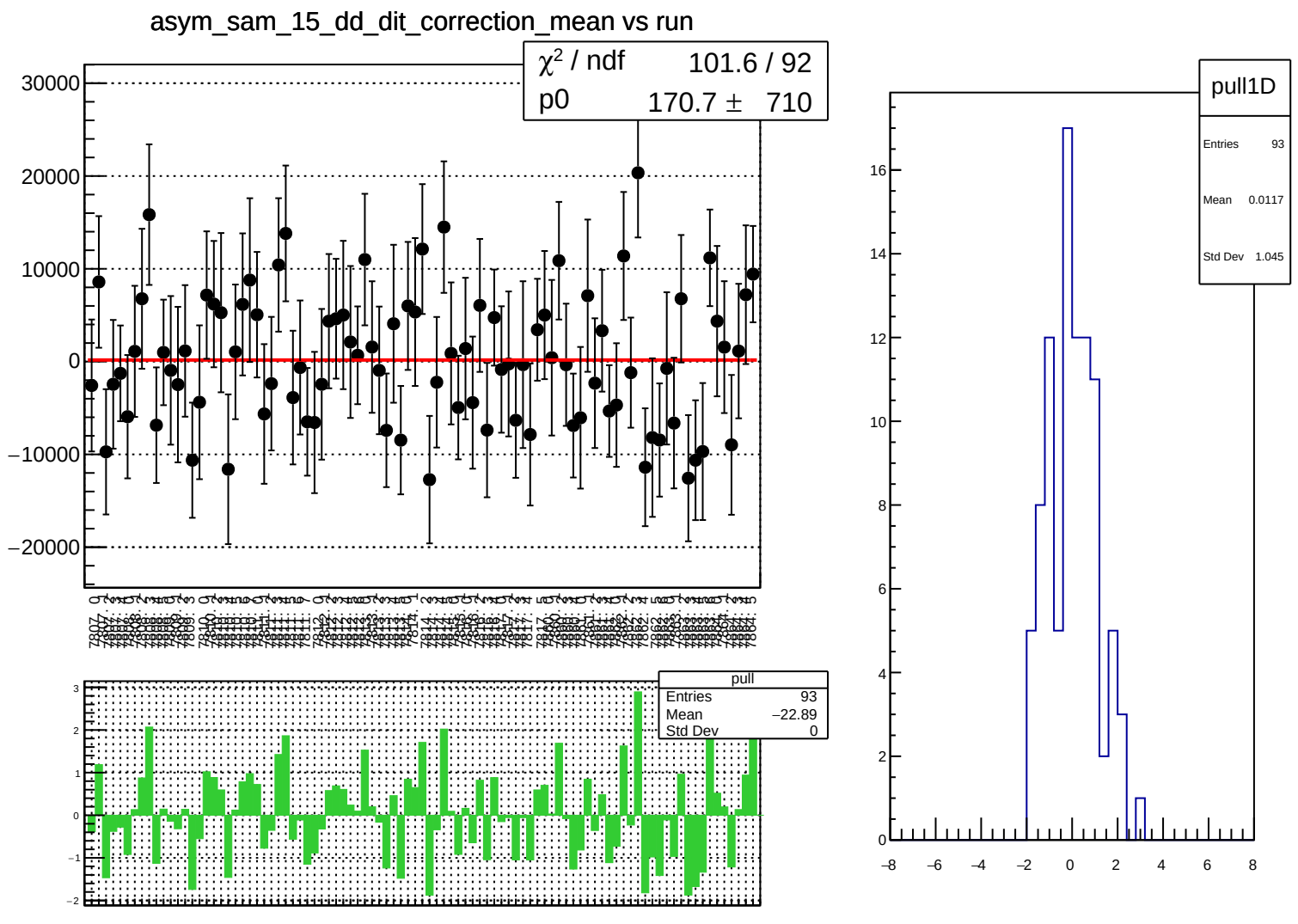

pull1D
Entries 93
Mean 0.01069
Std Dev 1.046
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

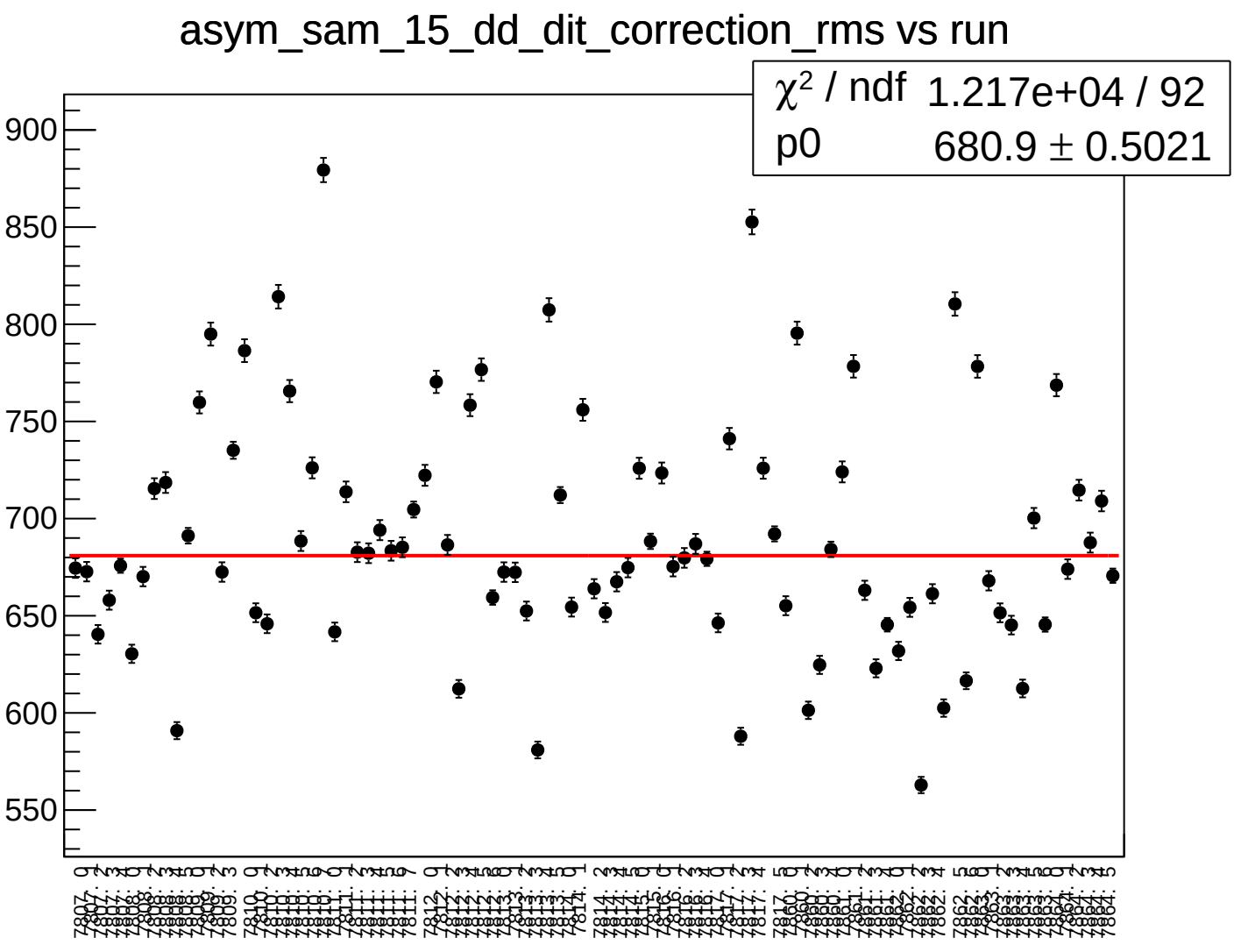

asym_sam_15_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.241e+04 / 92
p0 663.6 ± 0.4893
850
800
750
700
650
600
550

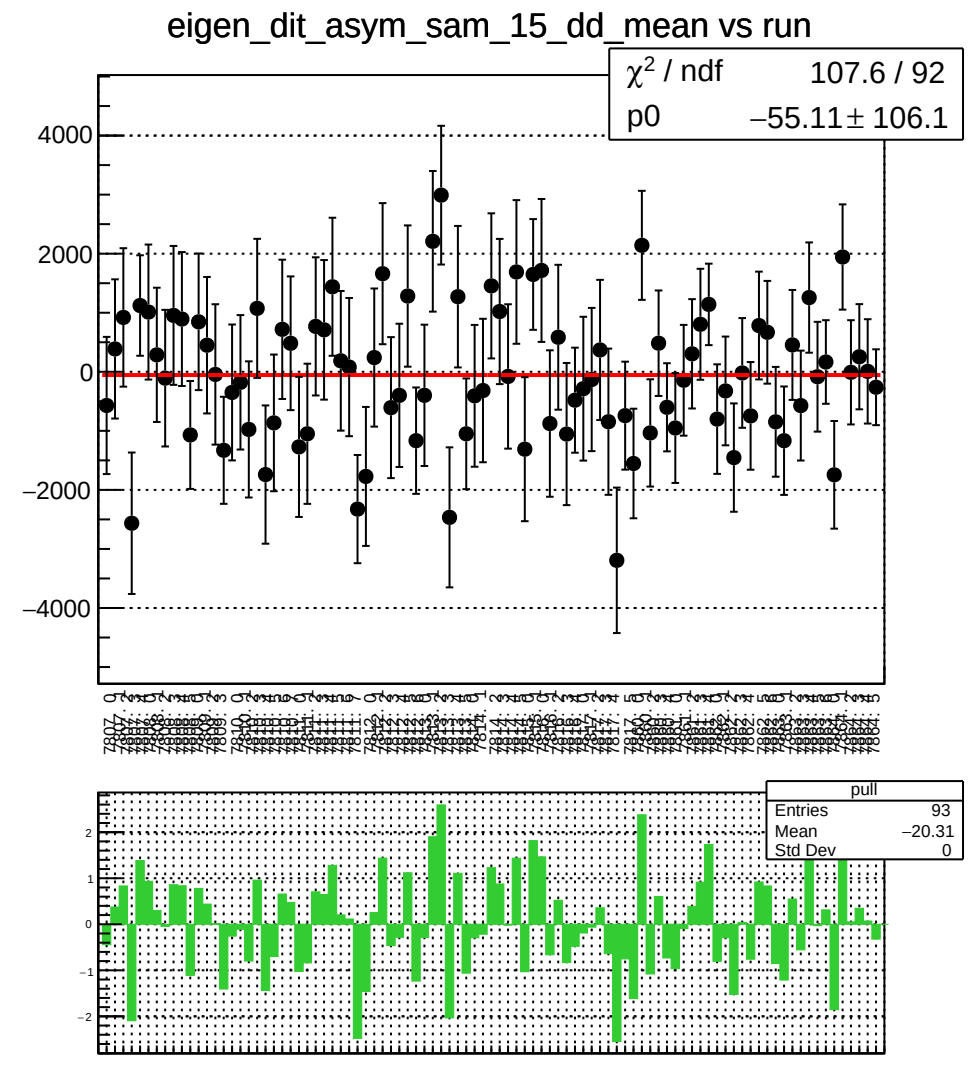

dit_asym_sam_15_dd_mean vs run
χ² / ndf 107.6 / 92
p0 −55.11 ± 106.1
4000
2000
0
−2000
−4000
pull
Entries 93
Mean −20.31
Std Dev 0
2
1
0
−1
−2

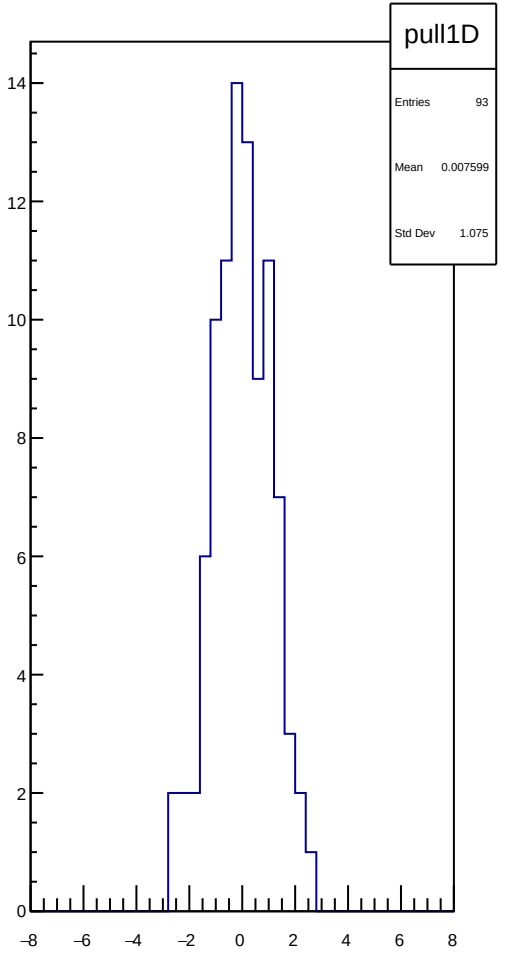

pull1D
Entries 93
Mean 0.007599
Std Dev 1.075
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

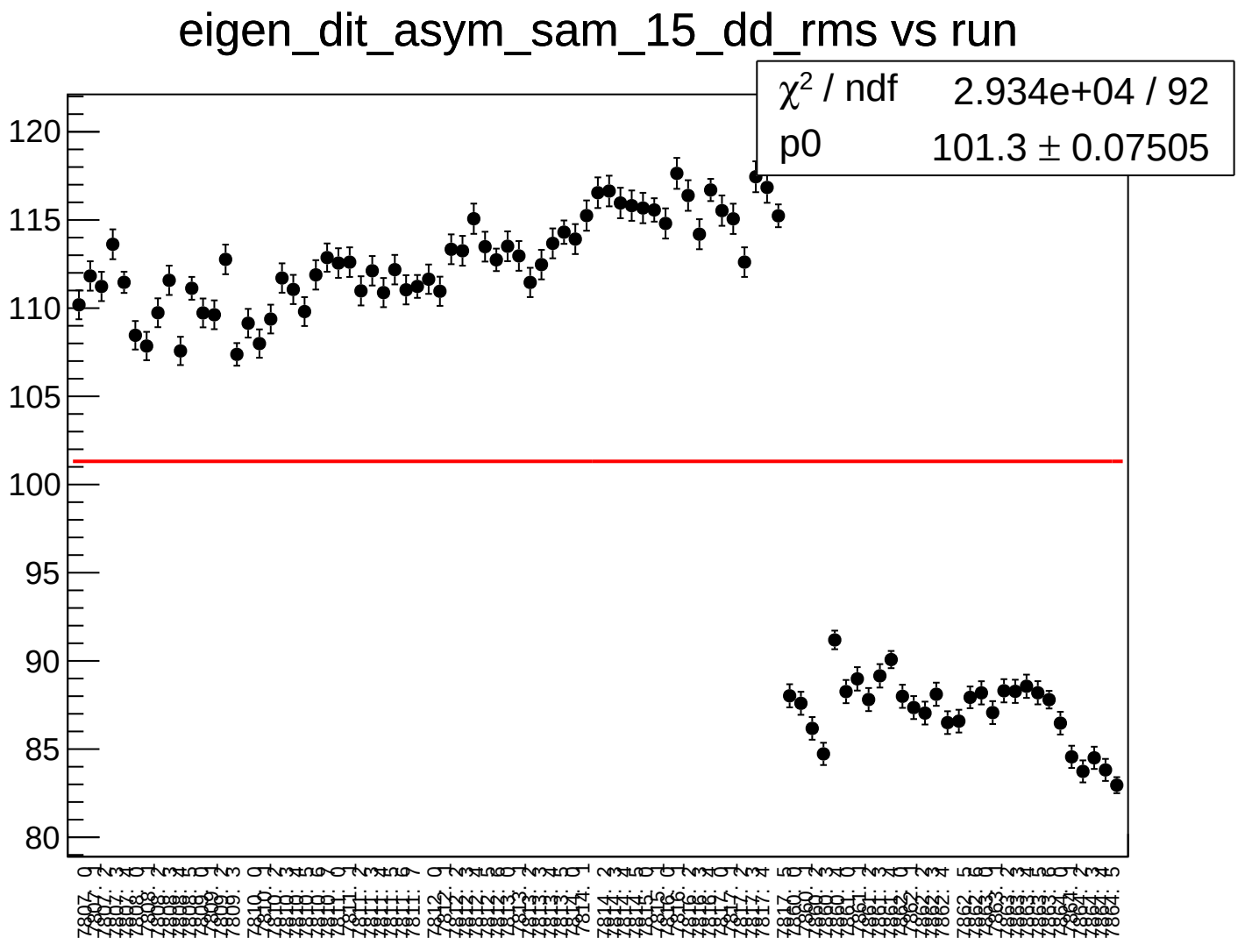

dit_asym_sam_15_dd_rms vs run
χ^2 / ndf 2.934e+04 / 92
p0 101.3 ± 0.07505
120
115
110
105
100
95
90
85
80

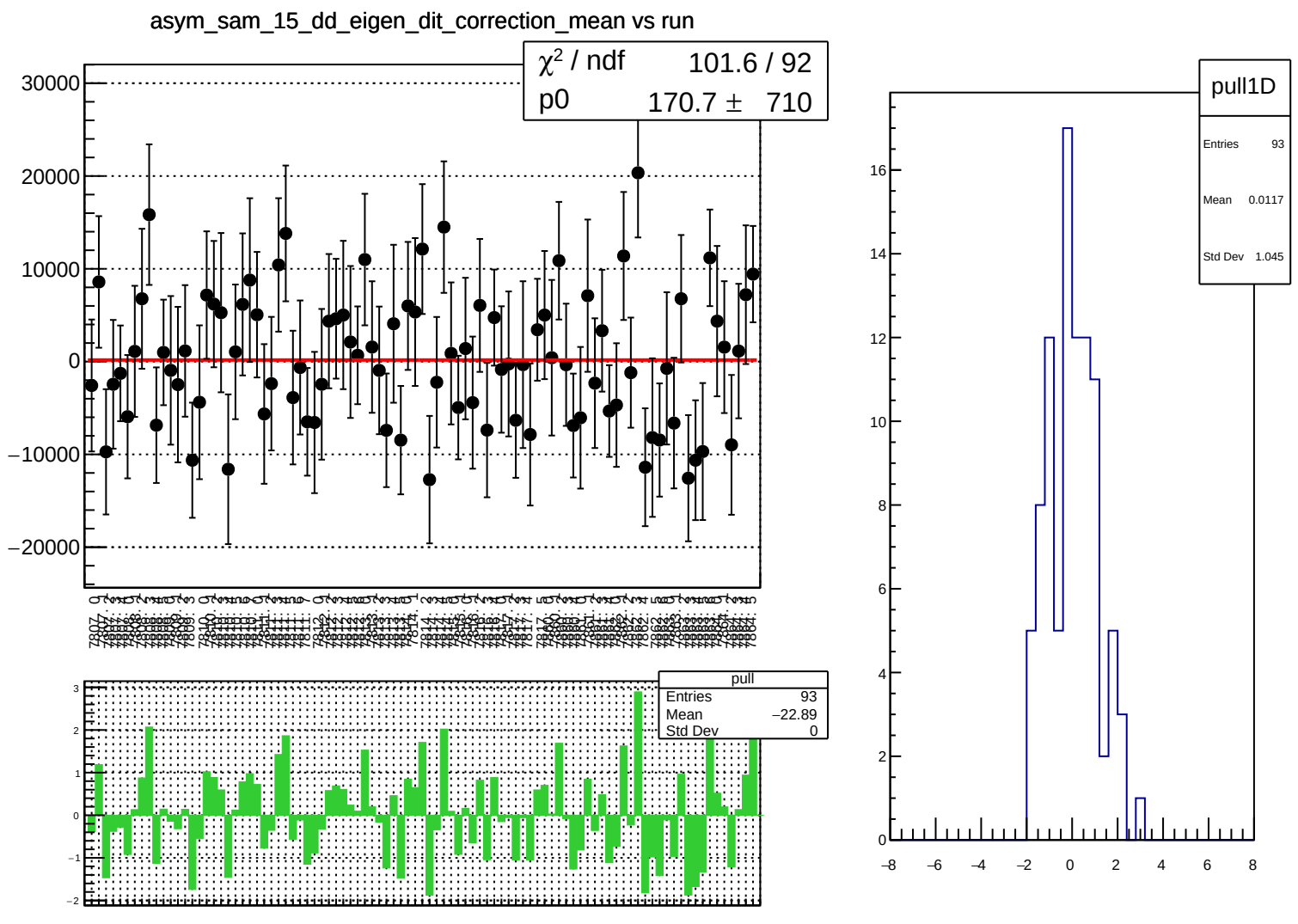

asym_sam_15_dd_dit_correction_mean vs run
χ² / ndf 101.6 / 92
p0 170.7 ± 710
pull
Entries 93
Mean −22.89
Std Dev 0
pull1D
Entries 93
Mean 0.0117
Std Dev 1.045

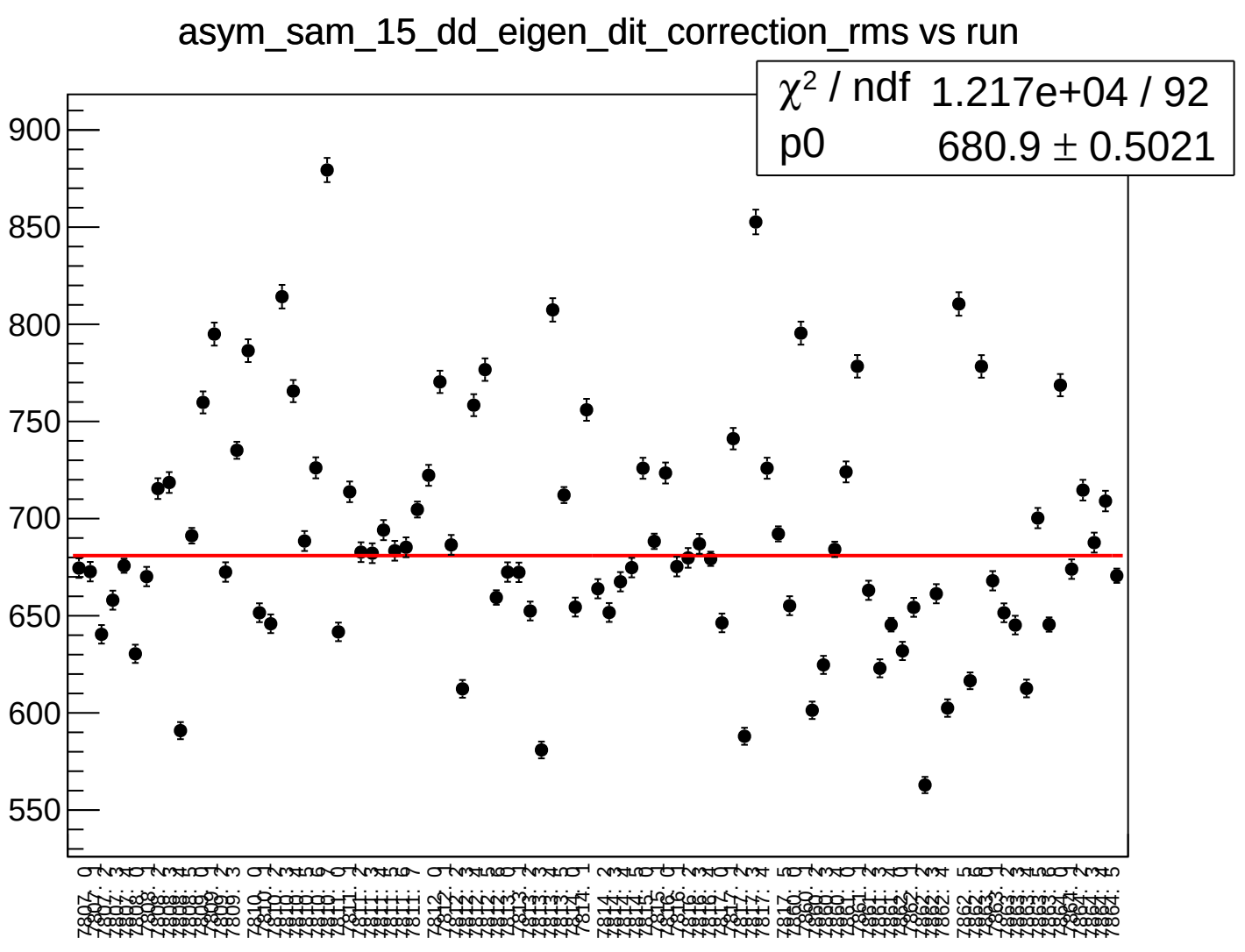

asym_sam_15_dd_dit_correction_rms vs run
χ² / ndf 1.217e+04 / 92
p0 680.9 ± 0.5021
900
850
800
750
700
650
600
550

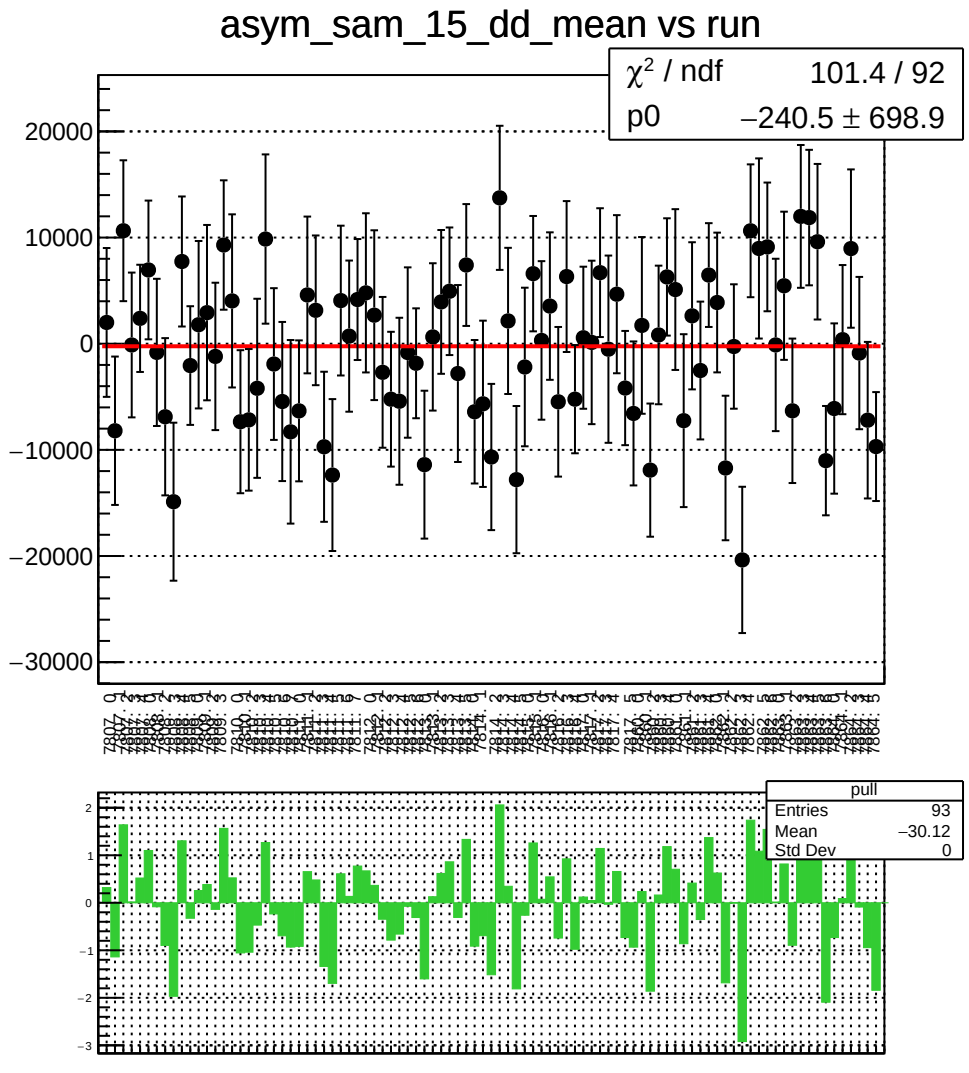

eigen_dit_asym_sam_15_dd_mean vs run
χ² / ndf 107.6 / 92
p0 −55.11 ± 106.1
4000
2000
0
−2000
−4000
pull
Entries 93
Mean −20.31
Std Dev 0
2
1
0
−1
−2

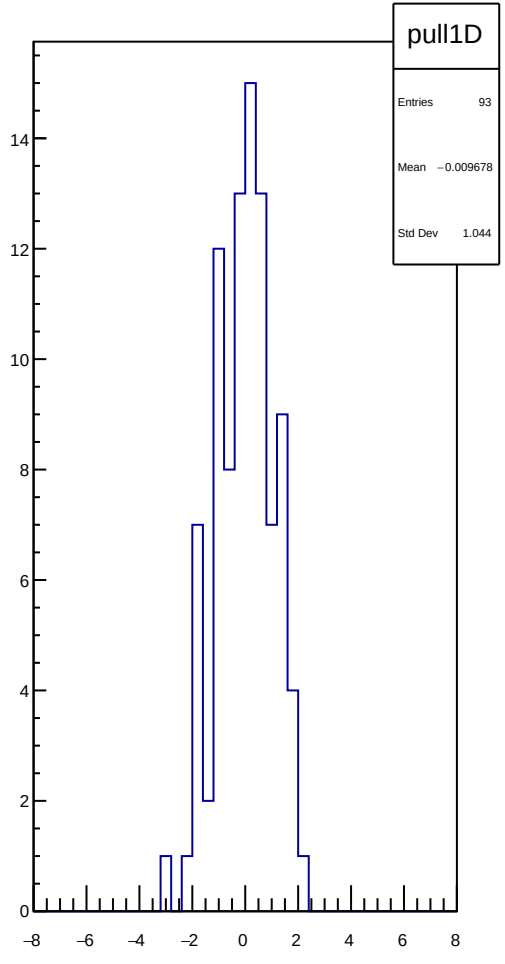

pull1D
Entries 93
Mean 0.007599
Std Dev 1.075
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

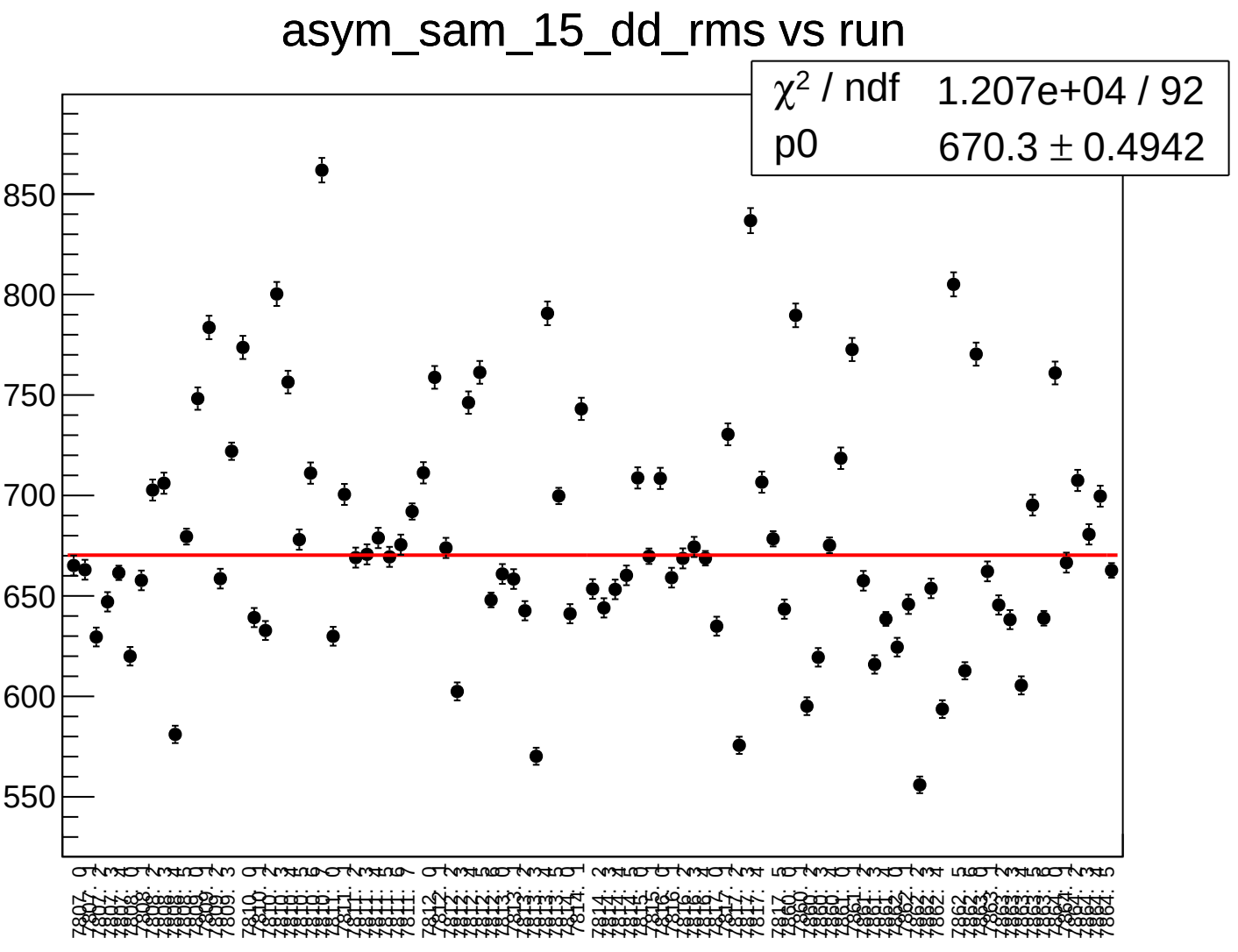

eigen_dit_asym_sam_15_dd_rms vs run
χ² / ndf 2.934e+04 / 92
p0 101.3 ± 0.07505
120
115
110
105
100
95
90
85
80

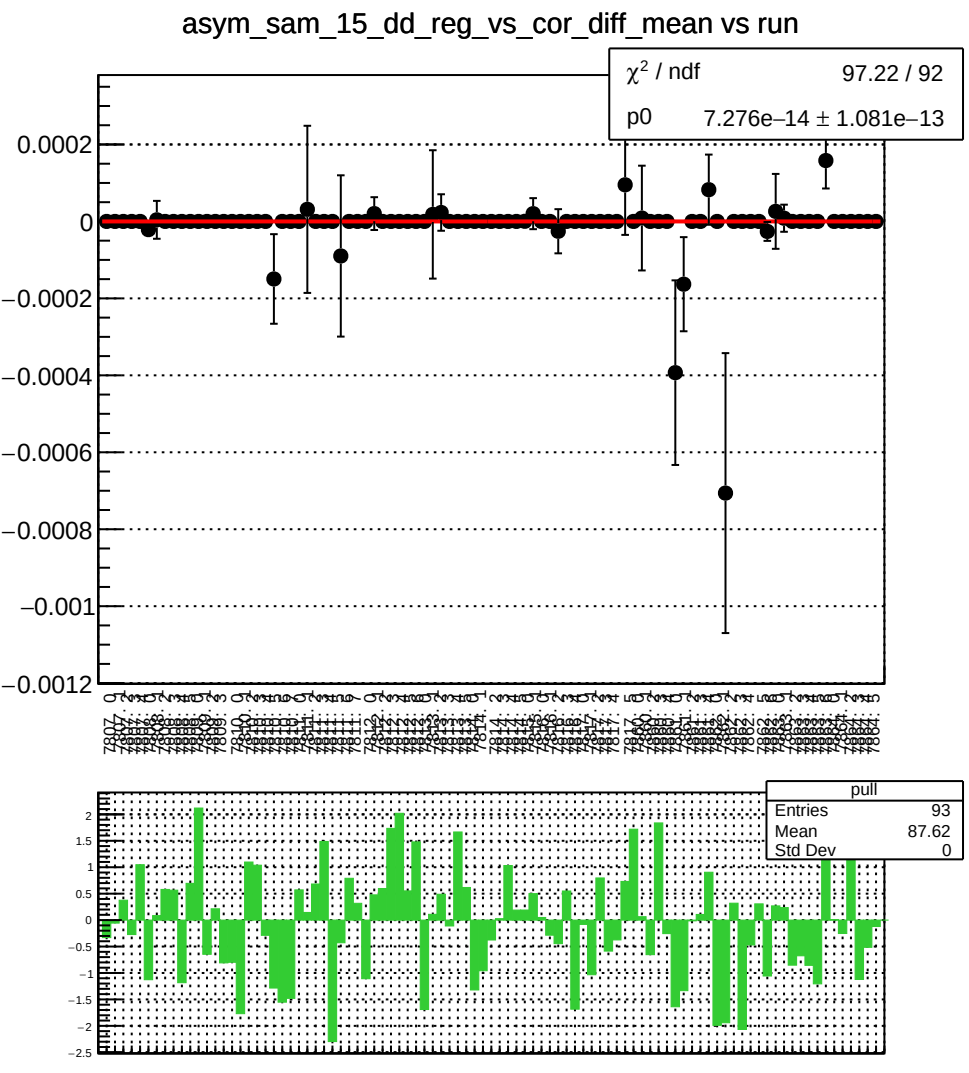

asym_sam_15_dd_eigen_dit_correction_mean vs run
χ² / ndf 101.6 / 92
p0 170.7 ± 710
30000
20000
10000
0
−10000
−20000
pull
Entries 93
Mean −22.89
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.0117
Std Dev 1.045
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

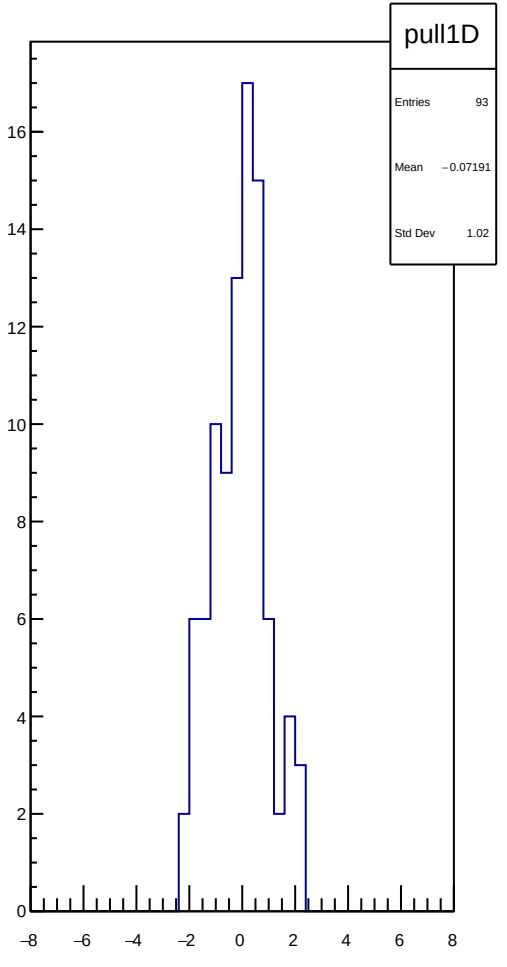

asym_sam_15_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.217e+04 / 92
p0 680.9 ± 0.5021
900
850
800
750
700
650
600
550

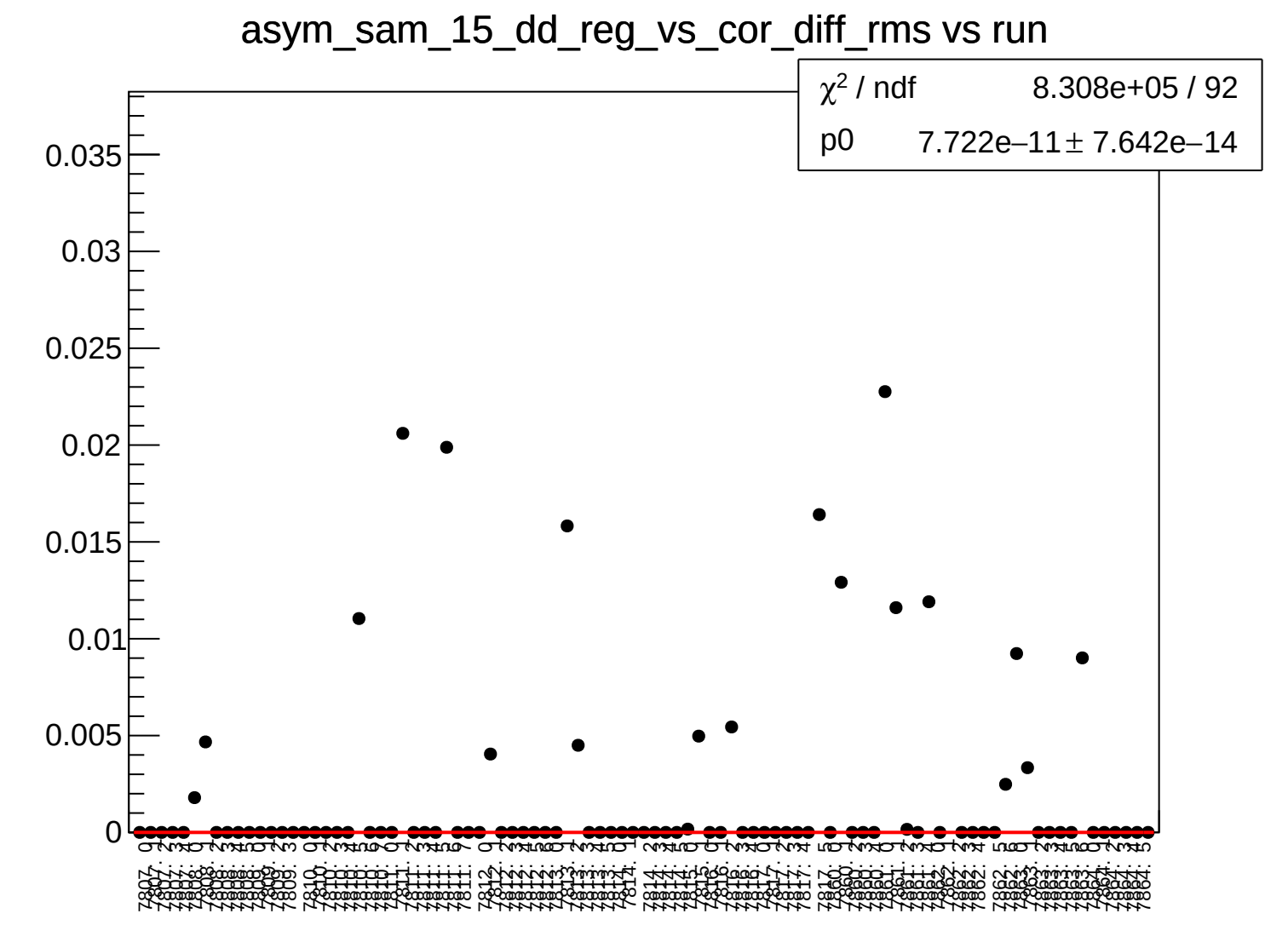

asym_sam_15_dd_mean vs run
χ² / ndf 101.4 / 92
p0 −240.5 ± 698.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −30.12
Std Dev 0
2
1
0
−1
−2
−3

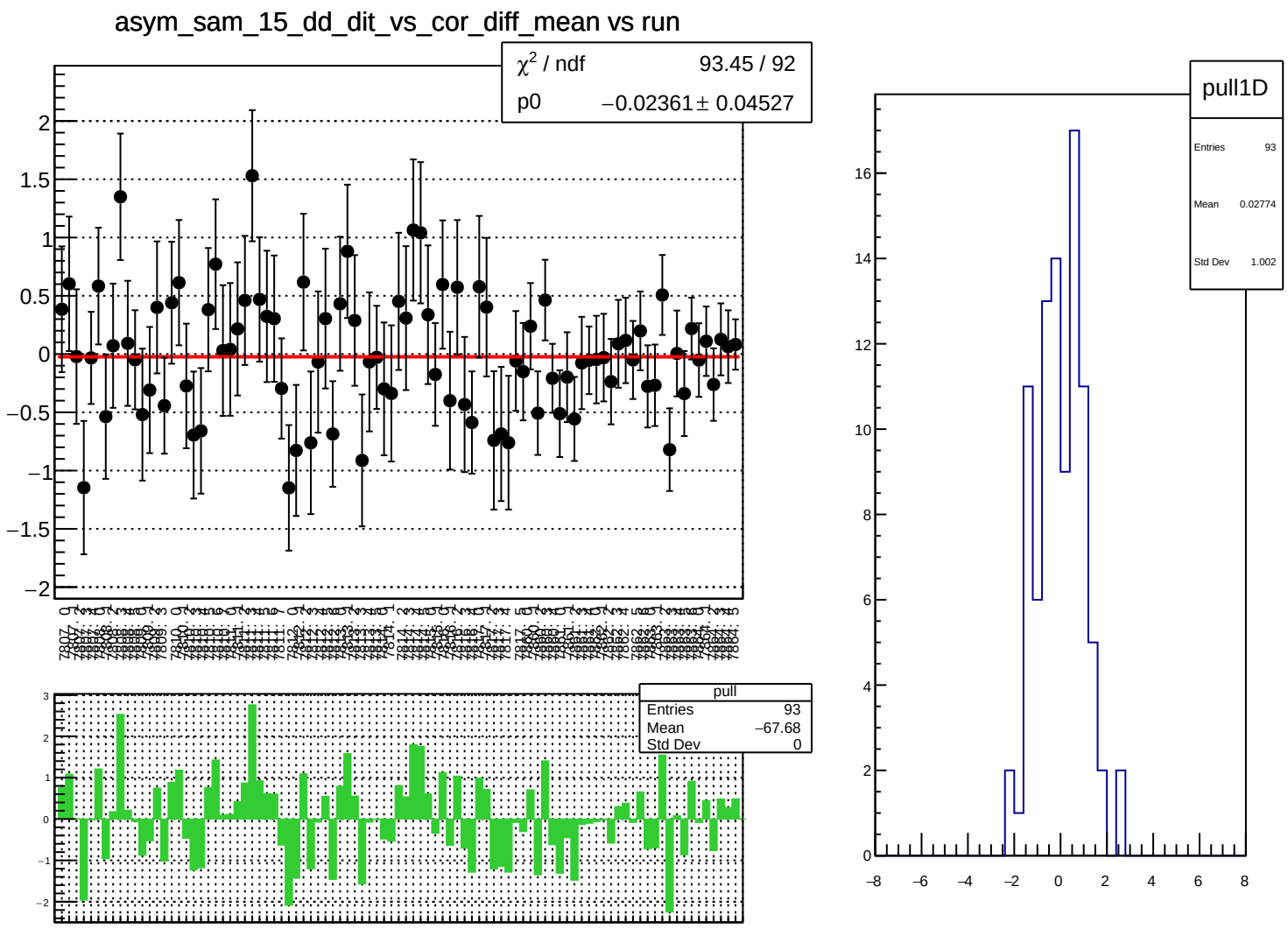

pull1D
Entries 93
Mean −0.009678
Std Dev 1.044
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

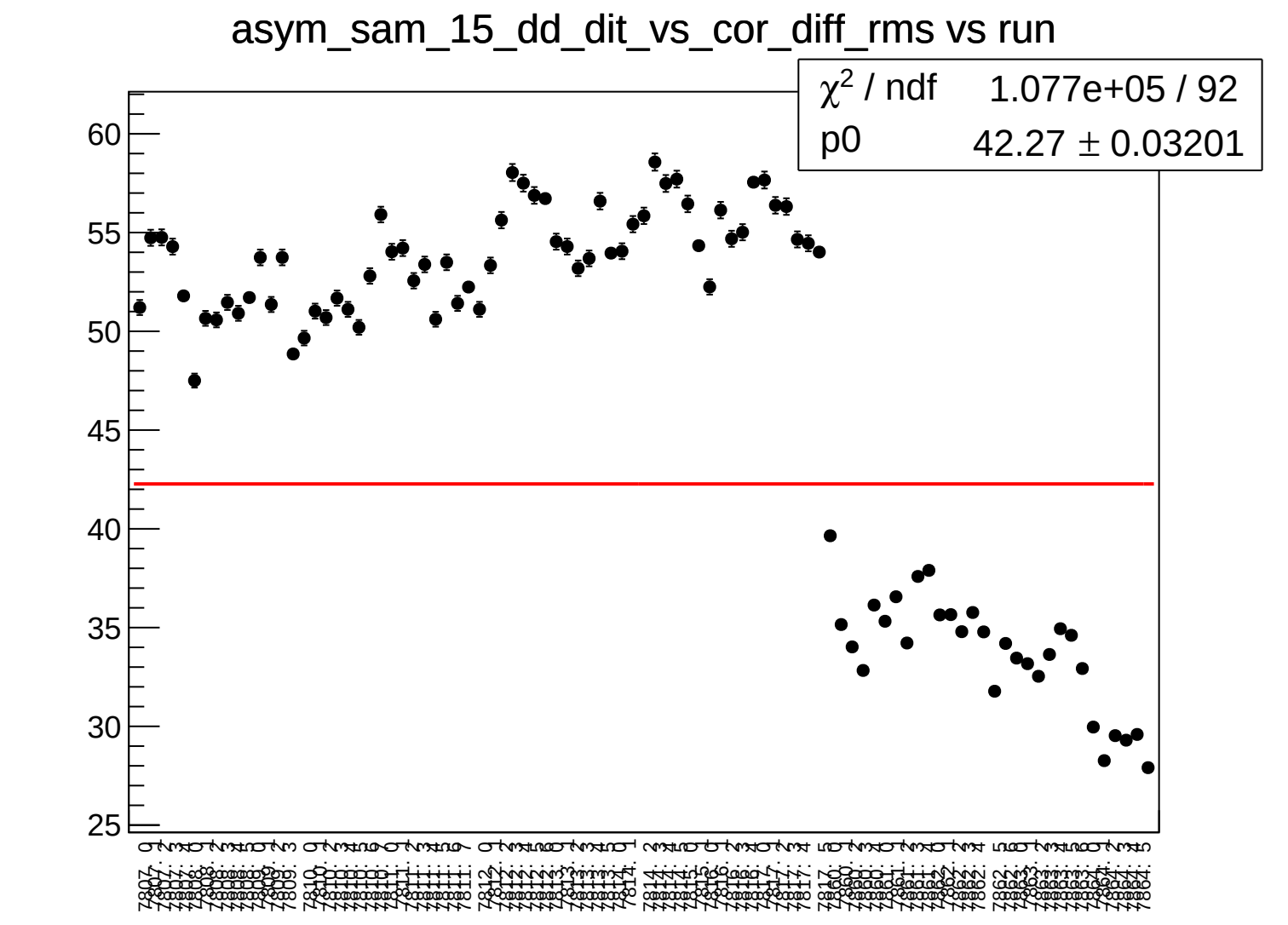

asym_sam_15_dd_rms vs run
χ^2 / ndf 1.207e+04 / 92
p0 670.3 ± 0.4942
850
800
750
700
650
600
550

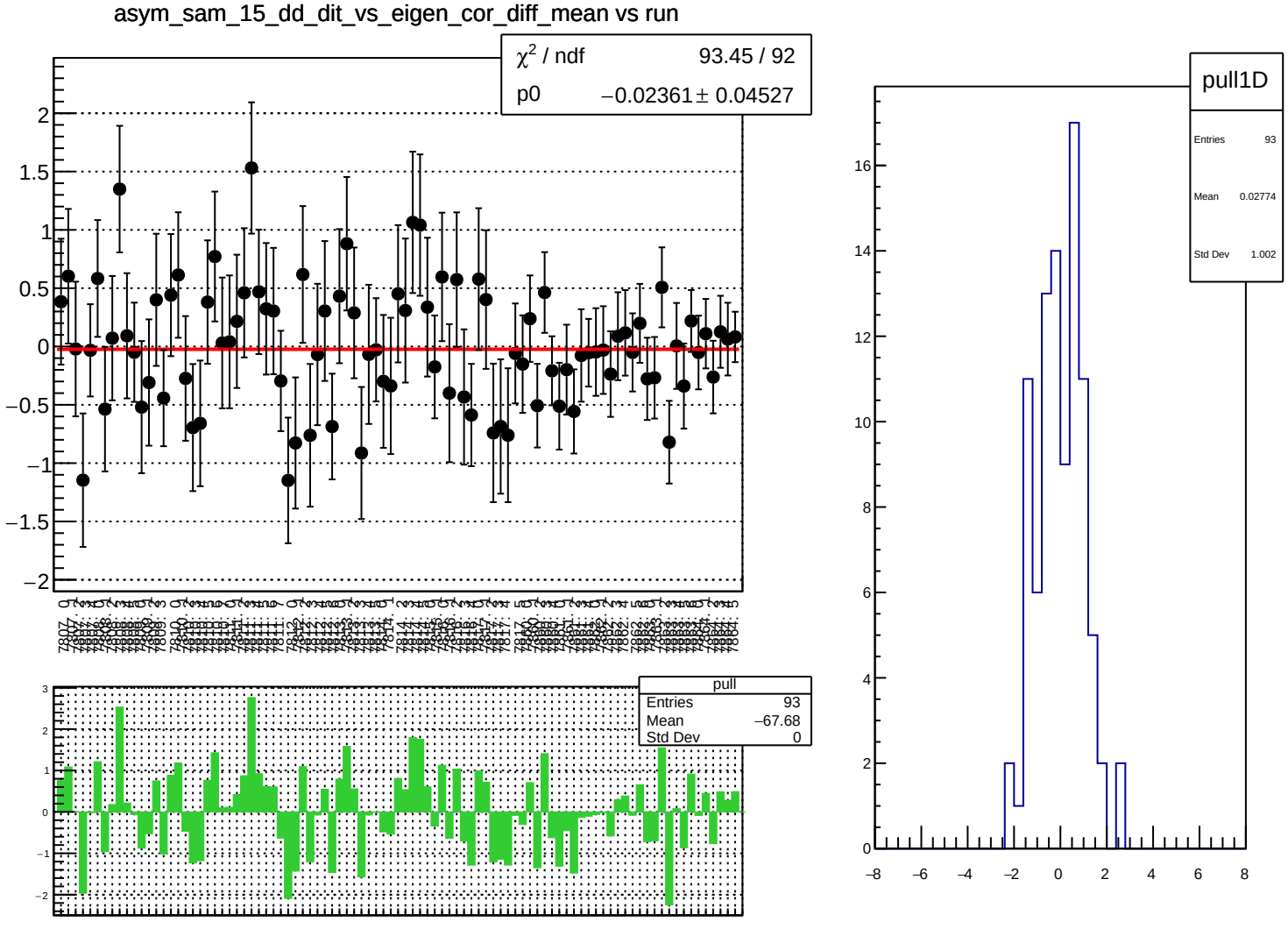

asym_sam_15_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 97.22 / 92
p0 7.276e−14 ± 1.081e−13
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
pull
Entries 93
Mean 87.62
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

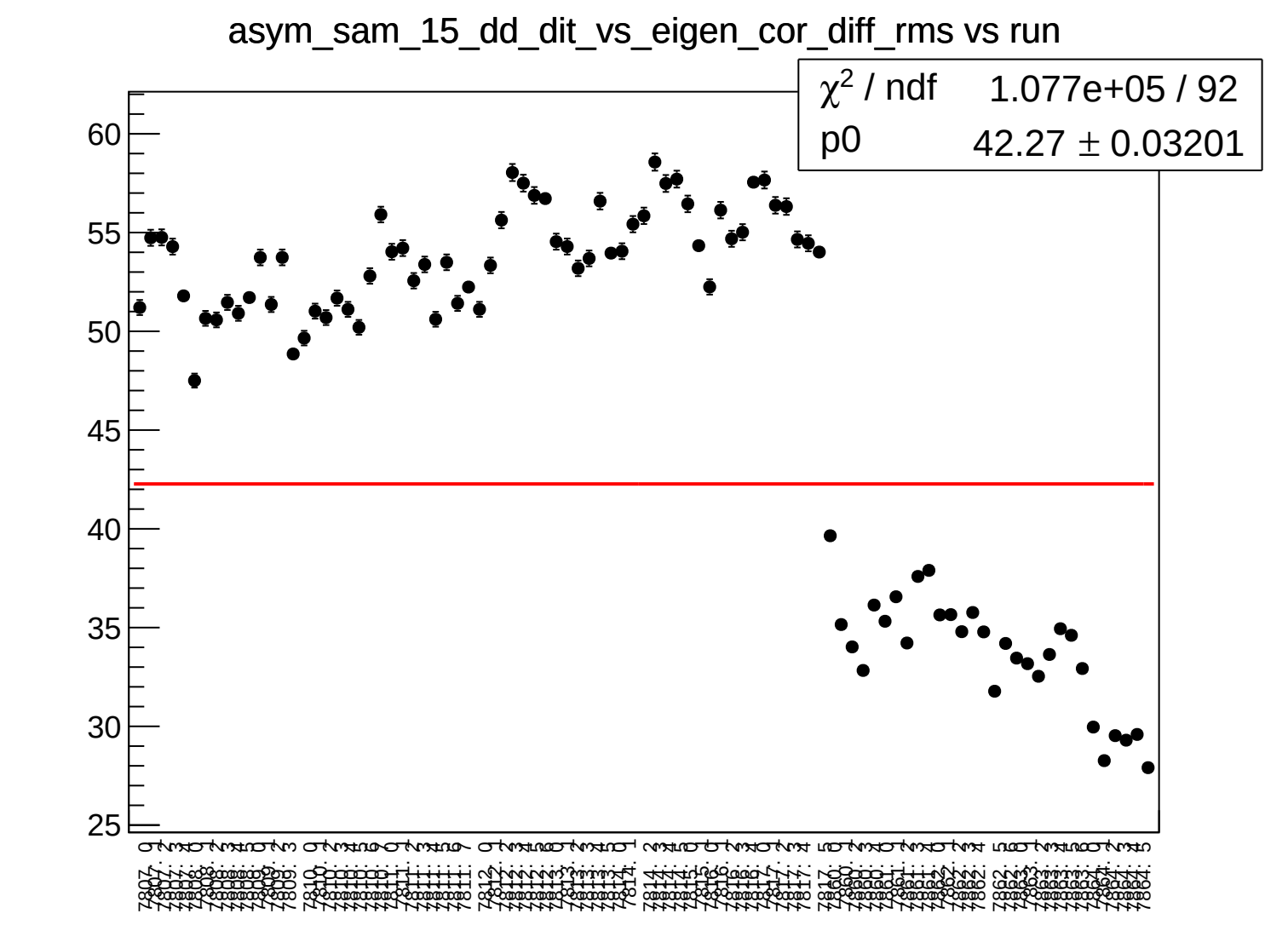

pull1D
Entries 93
Mean −0.07191
Std Dev 1.02
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

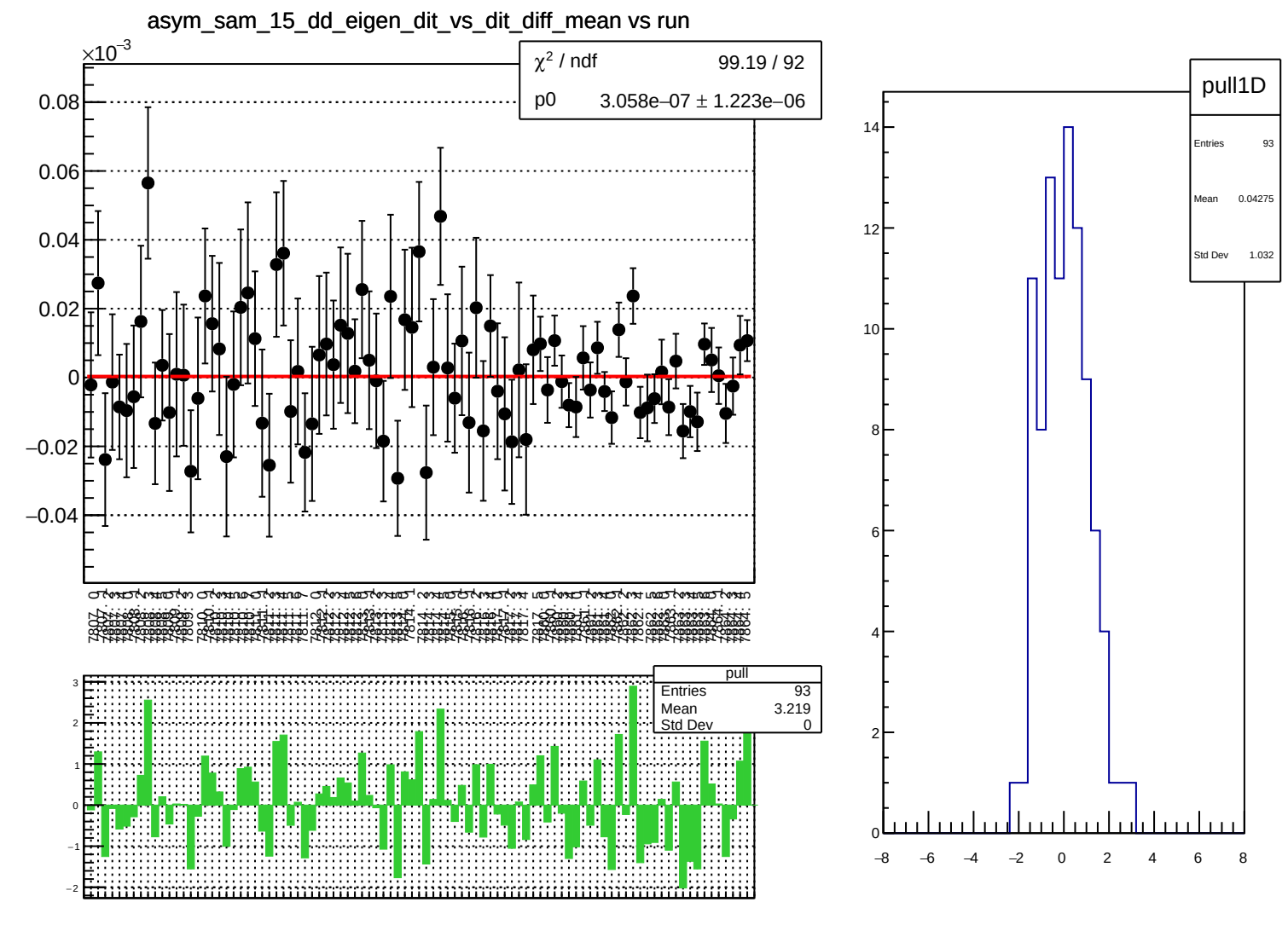

asym_sam_15_dd_reg_vs_cor_diff_rms vs run
χ^2 / ndf 8.308e+05 / 92
p0 7.722e−11 ± 7.642e−14
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

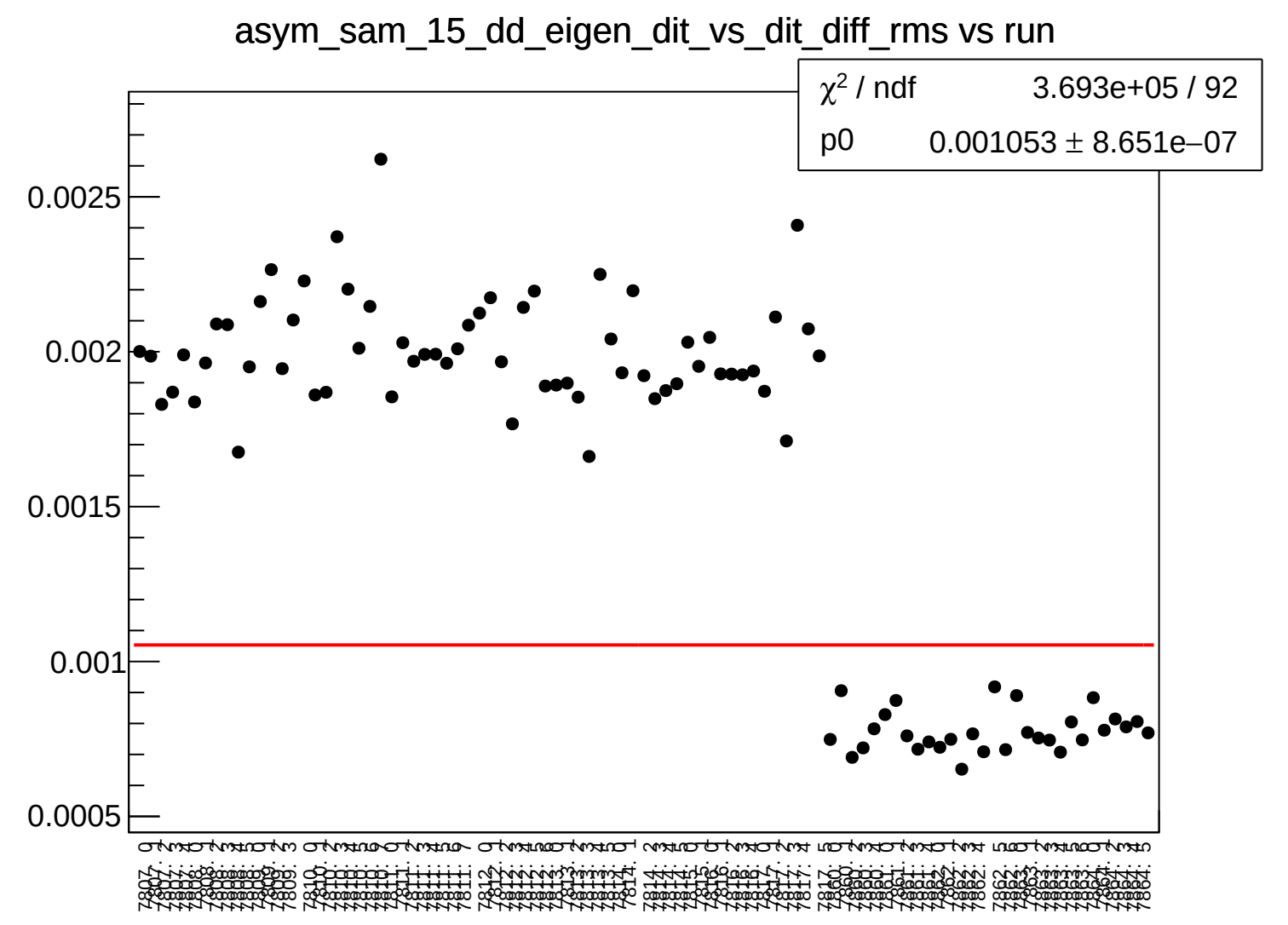

asym_sam_15_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 93.45 / 92
p0 −0.02361 ± 0.04527
pull
Entries 93
Mean −67.68
Std Dev 0
pull1D
Entries 93
Mean 0.02774
Std Dev 1.002

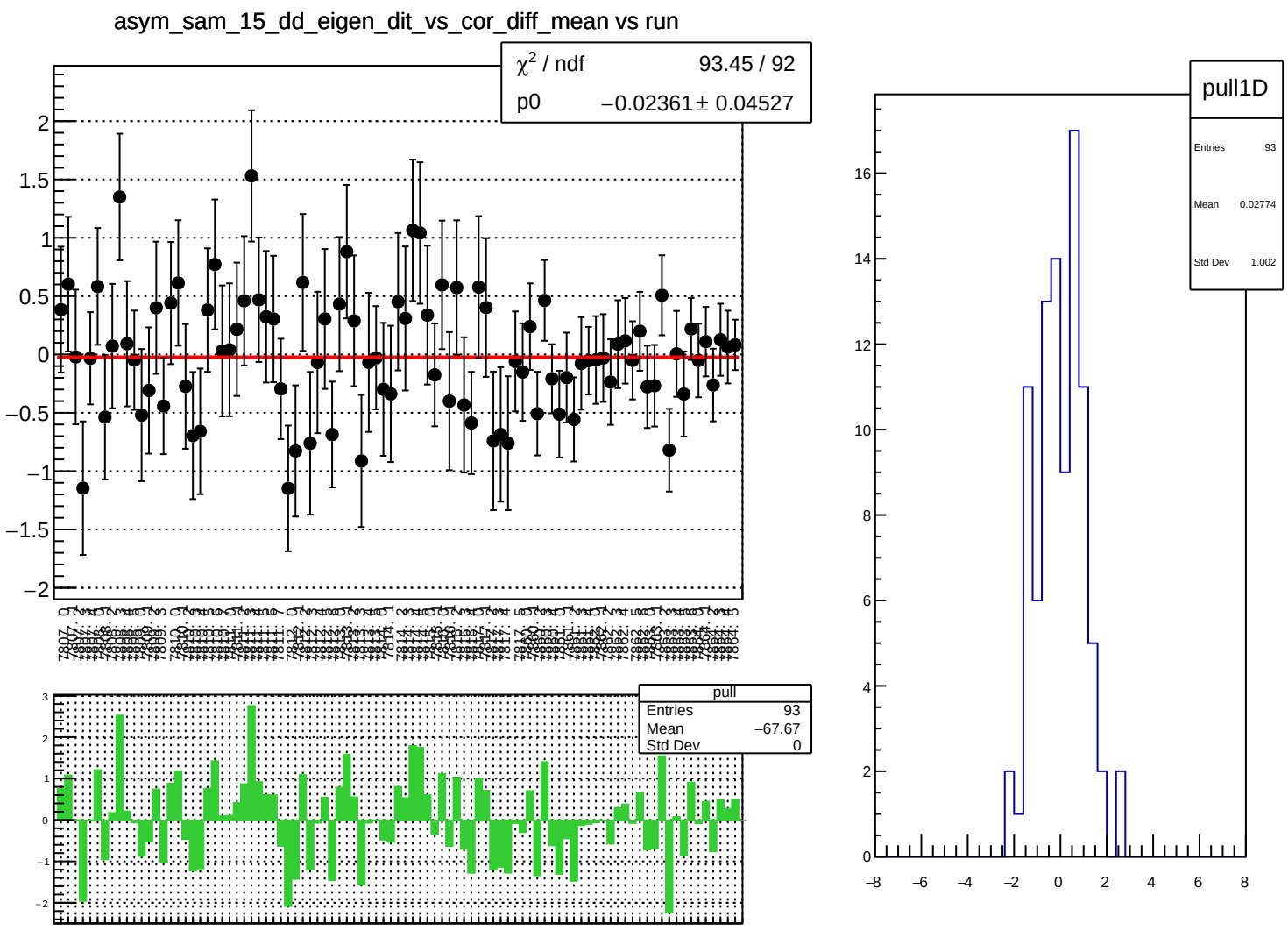

asym_sam_15_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.077e+05 / 92
p0 42.27 ± 0.03201
60
55
50
45
40
35
30
25

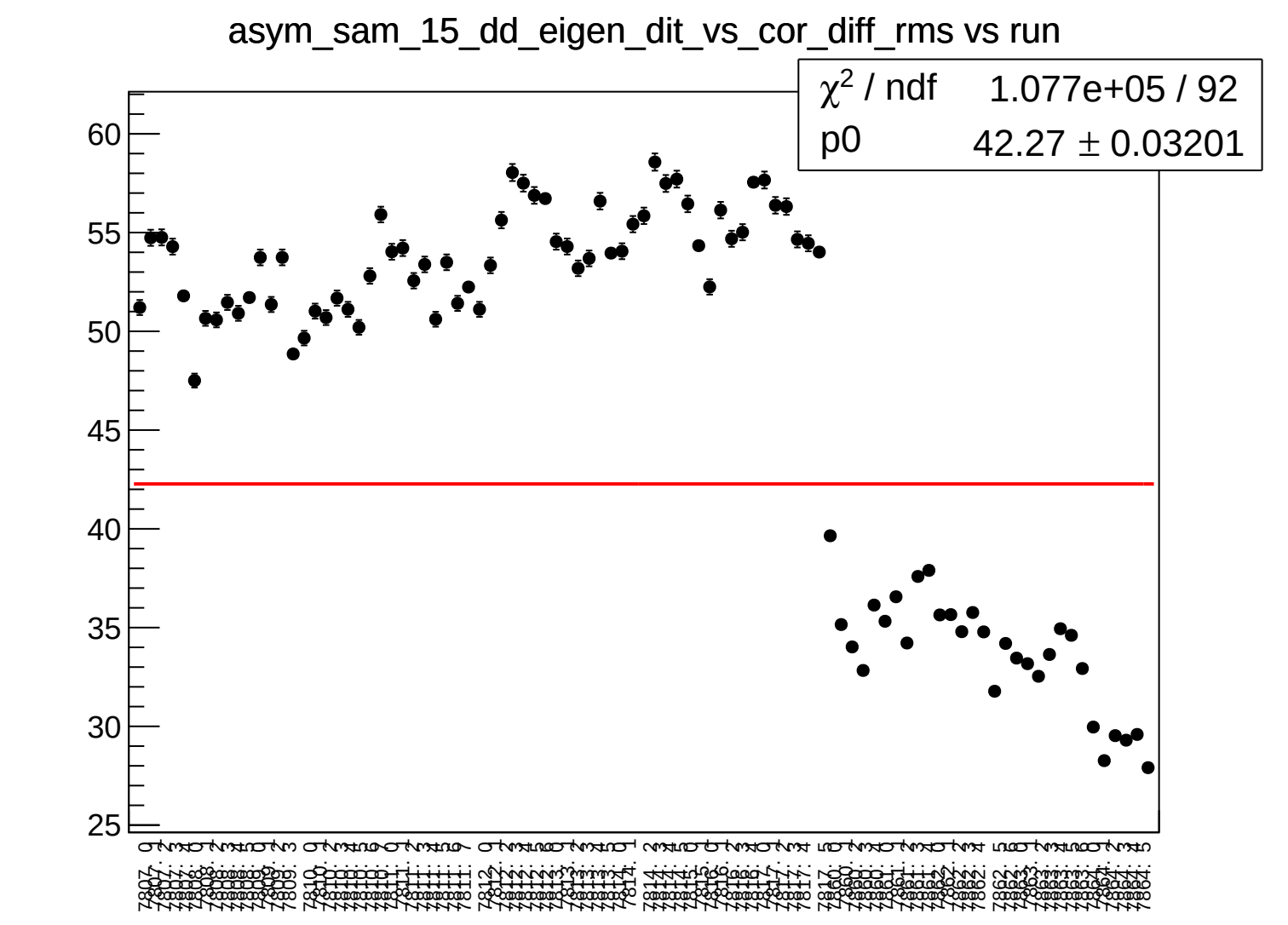

asym_sam_15_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.45 / 92
p0 −0.02361 ± 0.04527
pull
Entries 93
Mean −67.68
Std Dev 0
pull1D
Entries 93
Mean 0.02774
Std Dev 1.002

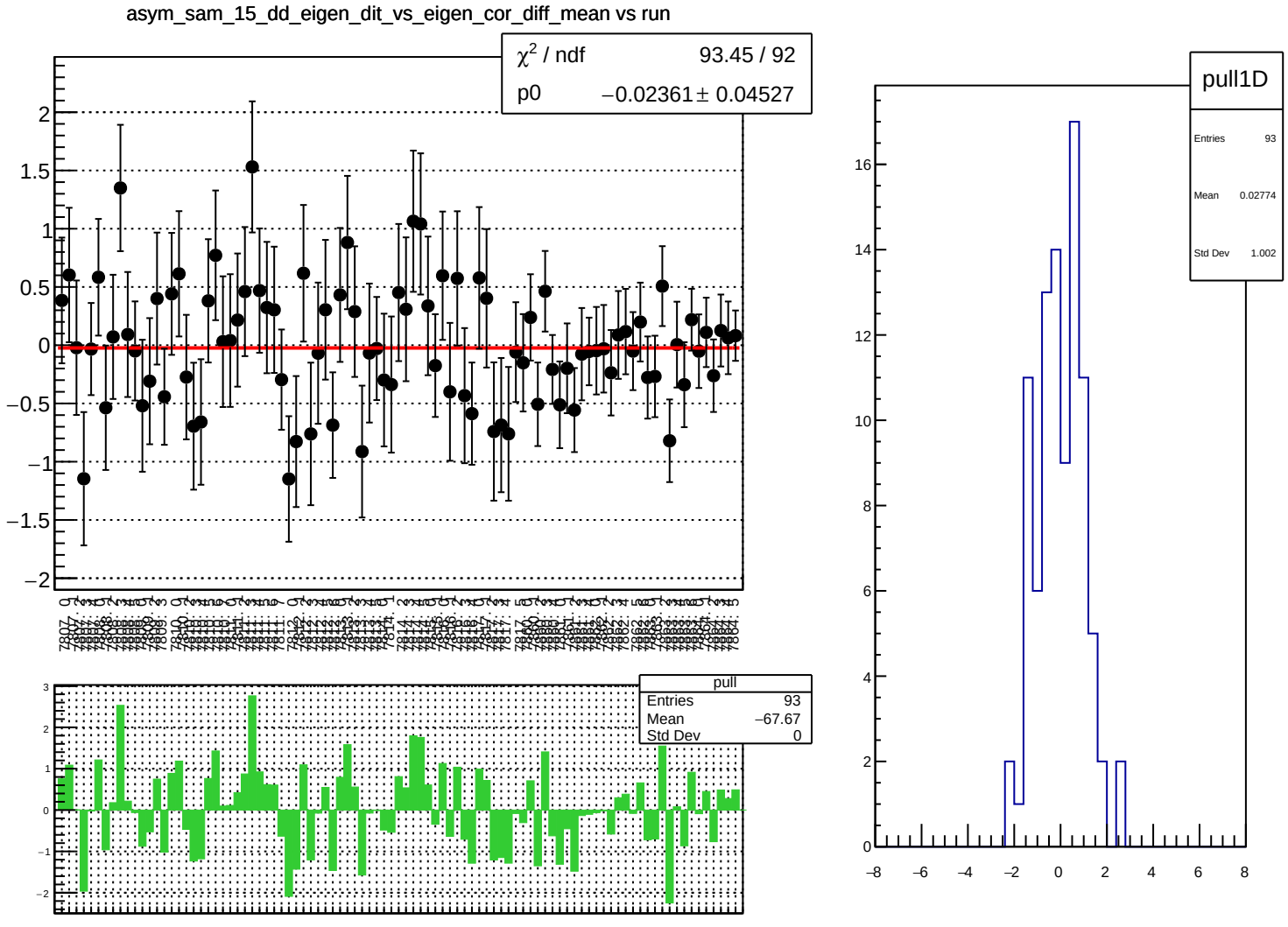

asym_sam_15_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.077e+05 / 92
p0 42.27 ± 0.03201
60
55
50
45
40
35
30
25

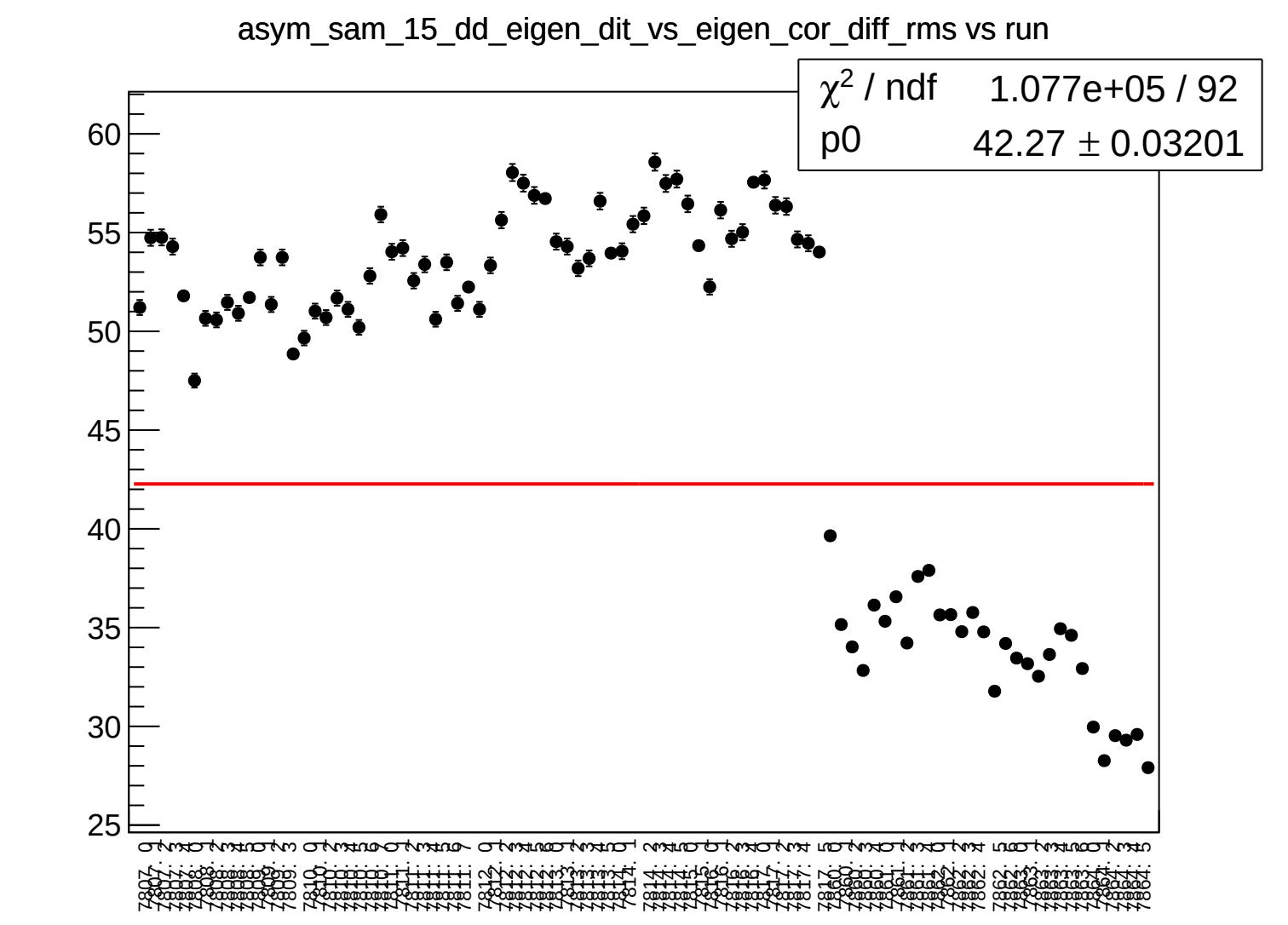

asym_sam_15_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.19 / 92
p0 3.058e−07 ± 1.223e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
pull
Entries 93
Mean 3.219
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.04275
Std Dev 1.032
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

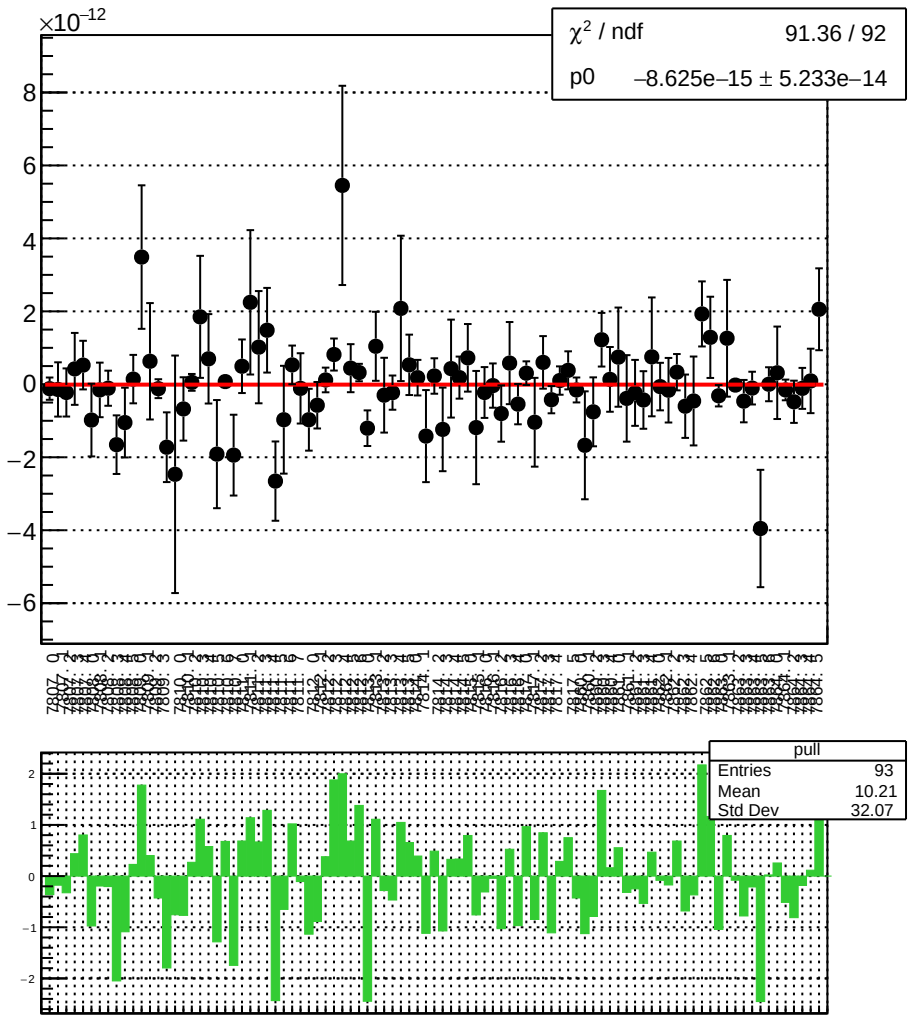

asym_sam_15_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.693e+05 / 92
p0 0.001053 ± 8.651e−07
0.0025
0.002
0.0015
0.001
0.0005

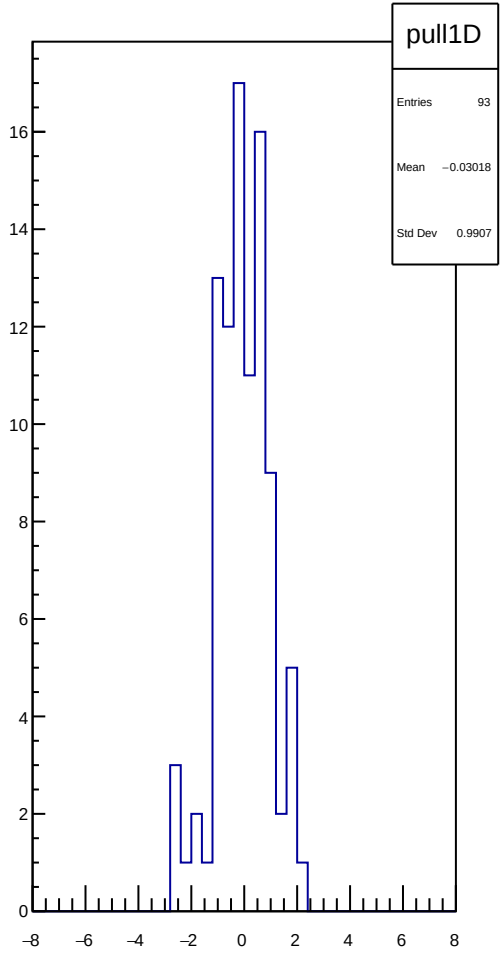

asym_sam_15_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.45 / 92
p0 −0.02361 ± 0.04527
pull
Entries 93
Mean −67.67
Std Dev 0
pull1D
Entries 93
Mean 0.02774
Std Dev 1.002

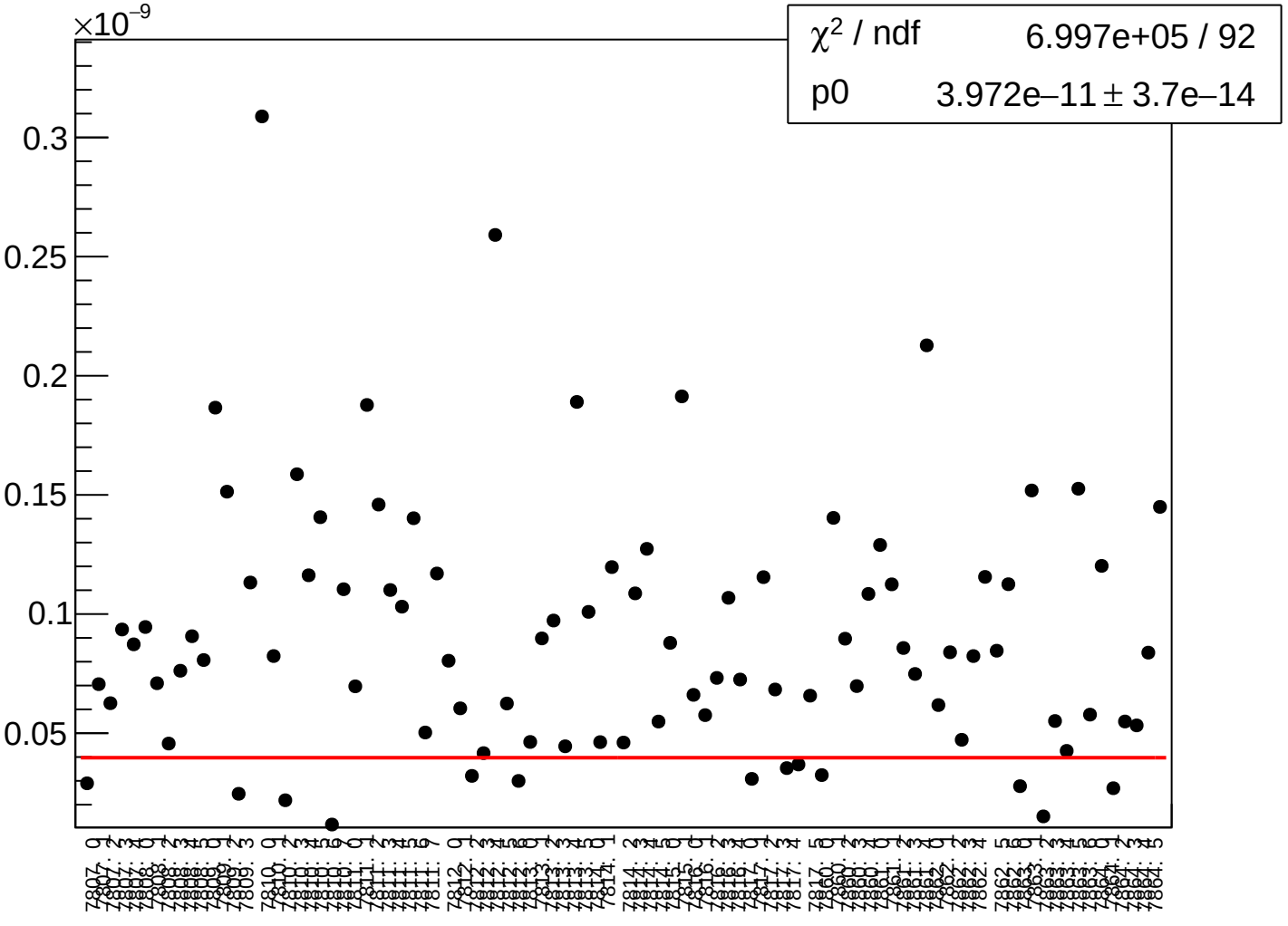

asym_sam_15_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.077e+05 / 92
p0 42.27 ± 0.03201
60
55
50
45
40
35
30
25

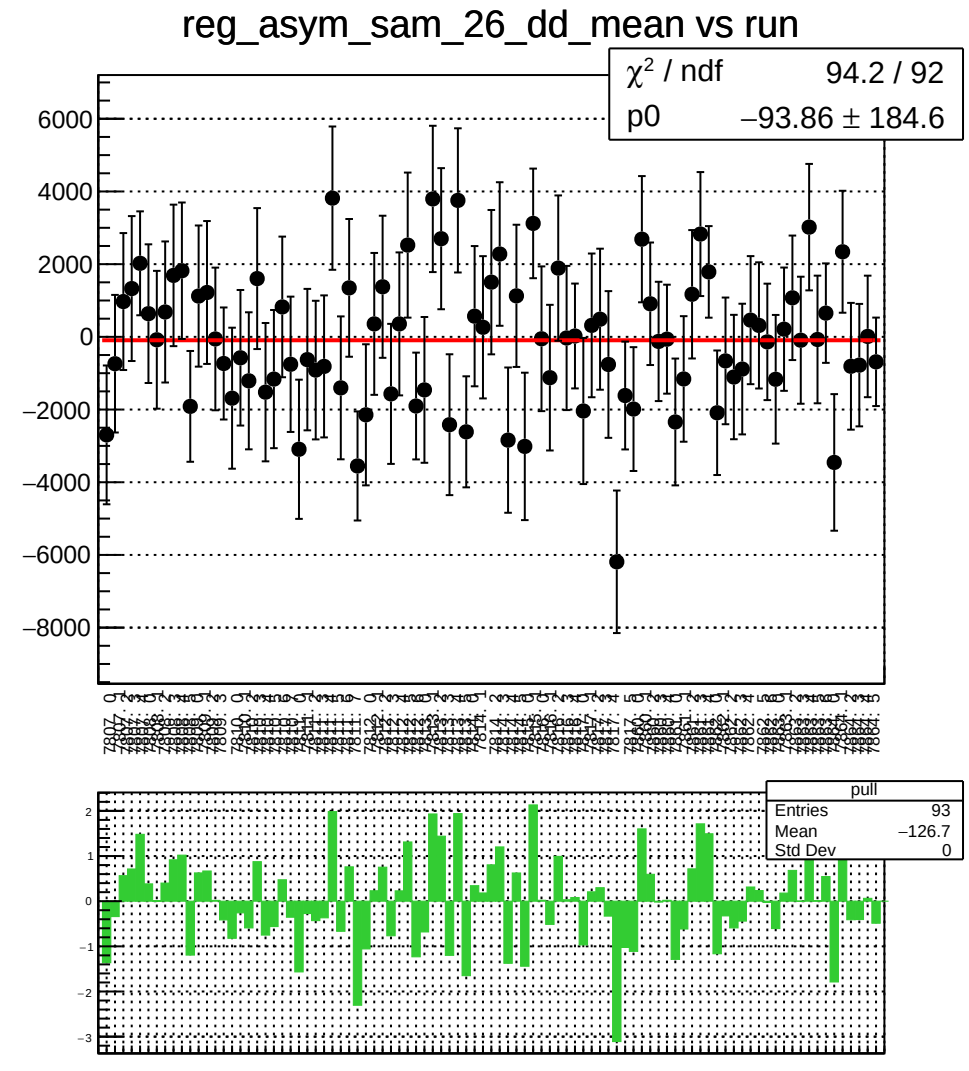

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.45 / 92
p0 −0.02361 ± 0.04527
pull
Entries 93
Mean −67.67
Std Dev 0
pull1D
Entries 93
Mean 0.02774
Std Dev 1.002

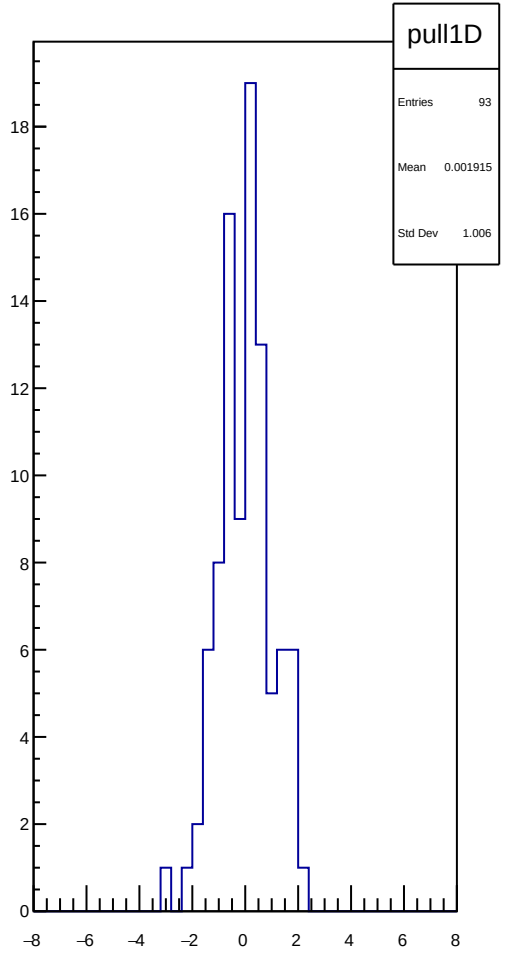

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.077e+05 / 92
p0 42.27 ± 0.03201
60
55
50
45
40
35
30
25

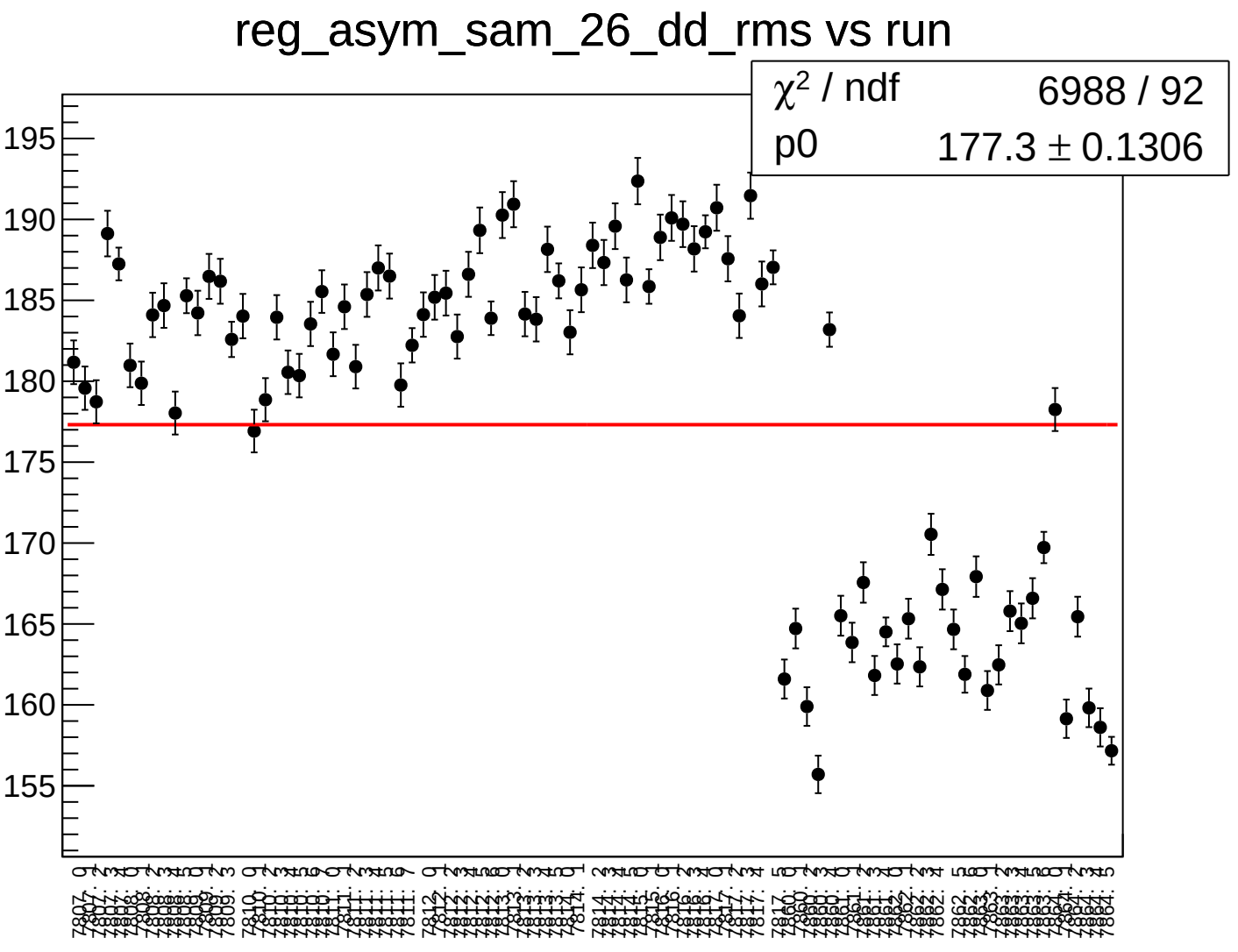

asym_sam_15_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.36 / 92
p0 −8.625e−15 ± 5.233e−14
pull
Entries 93
Mean 10.21
Std Dev 32.07

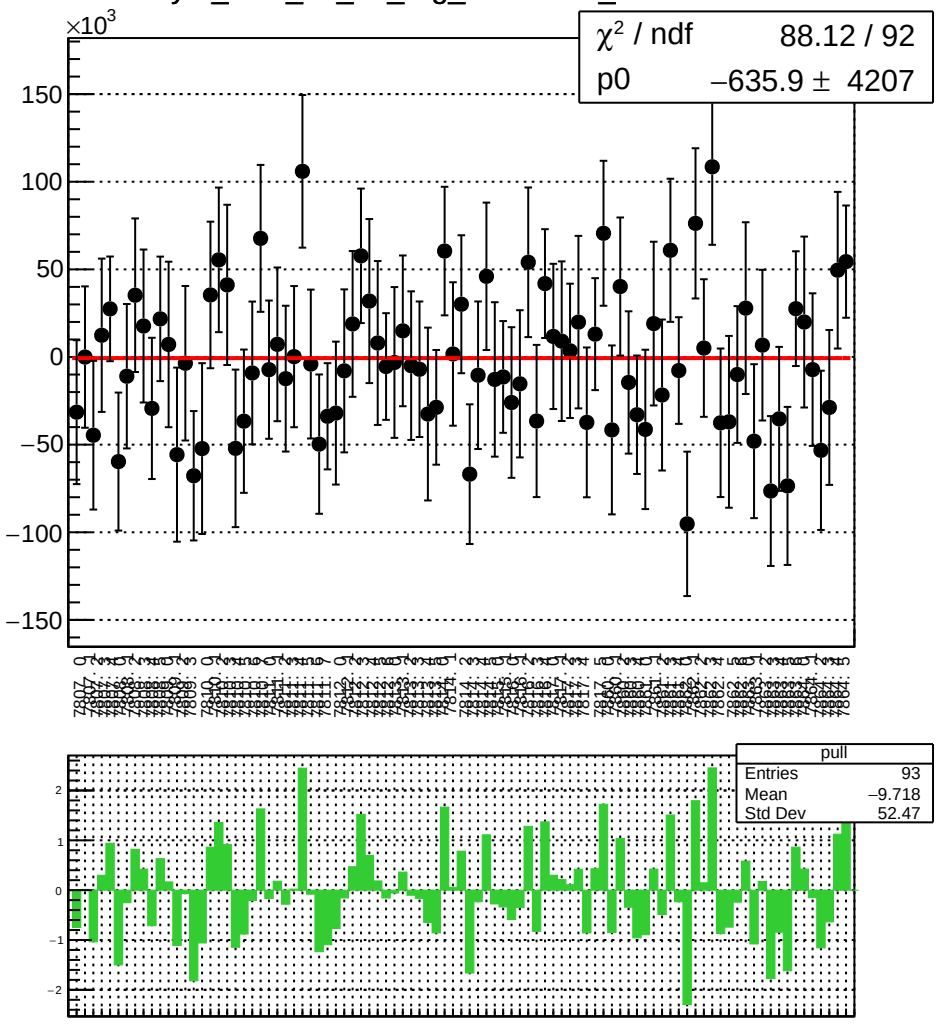

pull1D
Entries 93
Mean −0.03018
Std Dev 0.9907

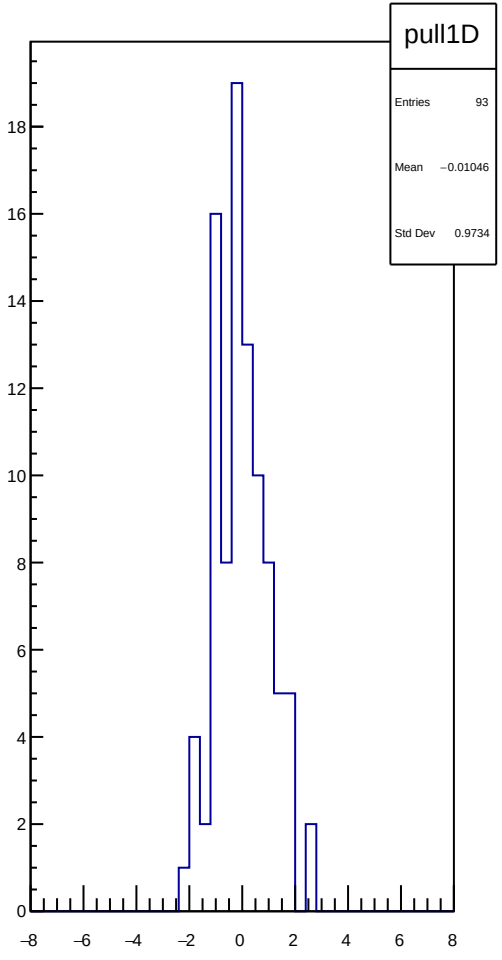

asym_sam_15_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.997e+05 / 92
p0 3.972e−11 ± 3.7e−14
0.3
0.25
0.2
0.15
0.1
0.05

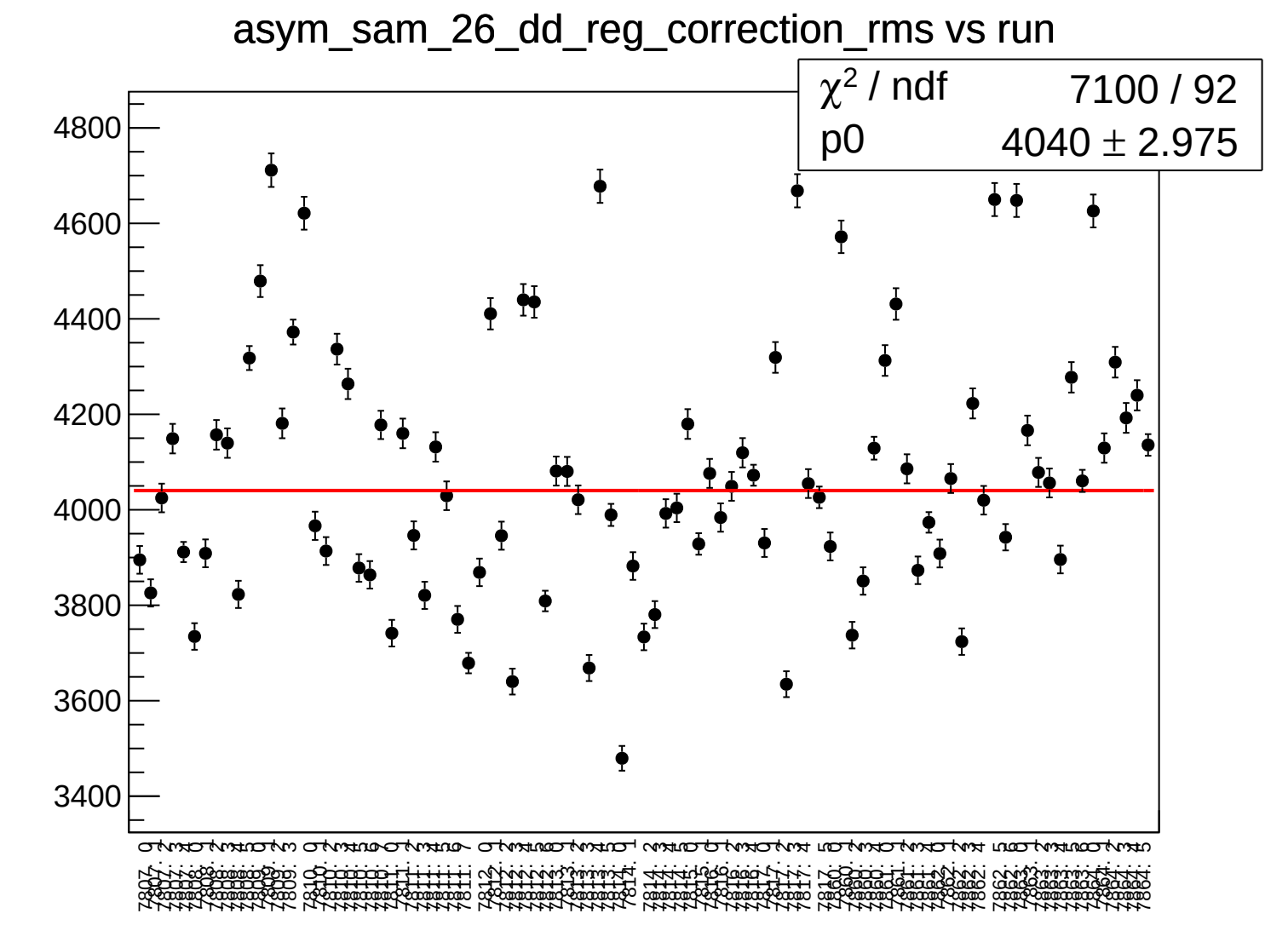

reg_asym_sam_26_dd_mean vs run
χ² / ndf 94.2 / 92
p0 −93.86 ± 184.6
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 93
Mean −126.7
Std Dev 0
2
1
0
−1
−2
−3

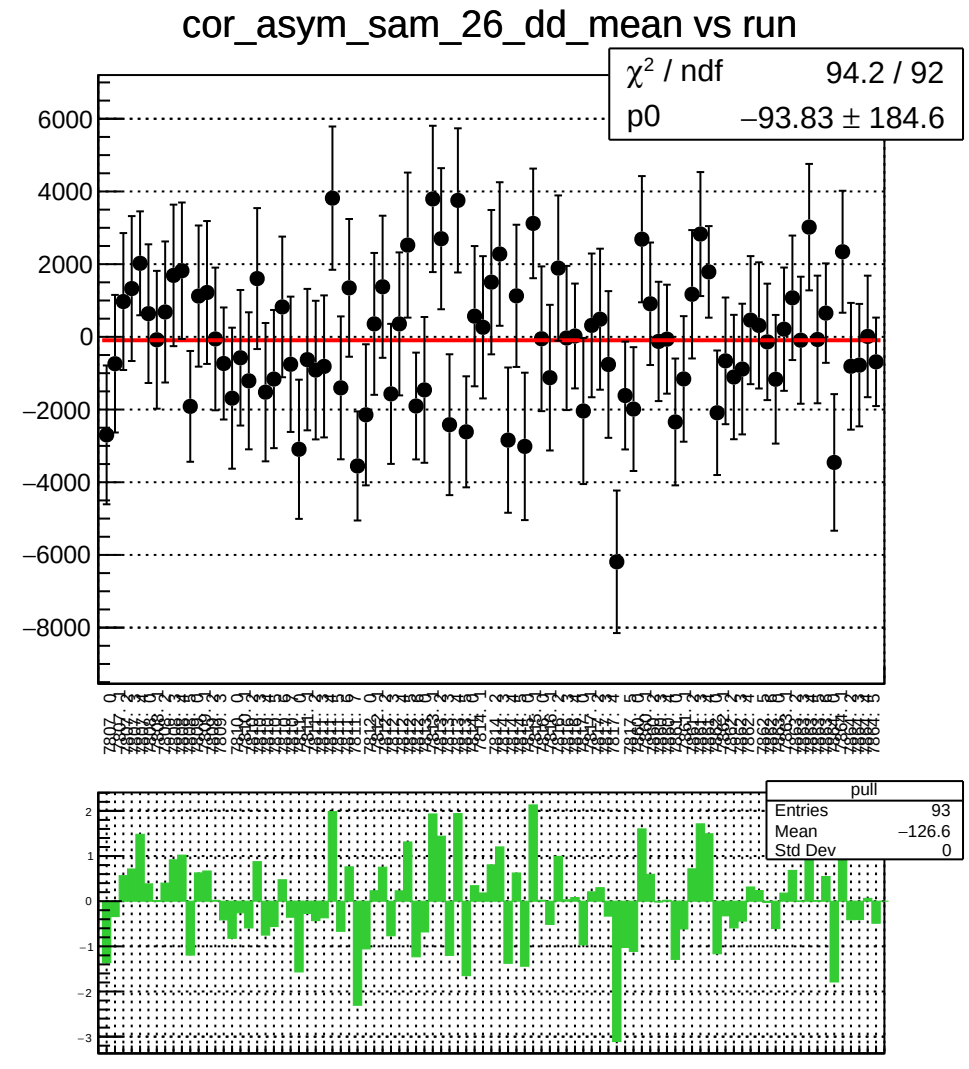

pull1D
Entries 93
Mean 0.001915
Std Dev 1.006
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

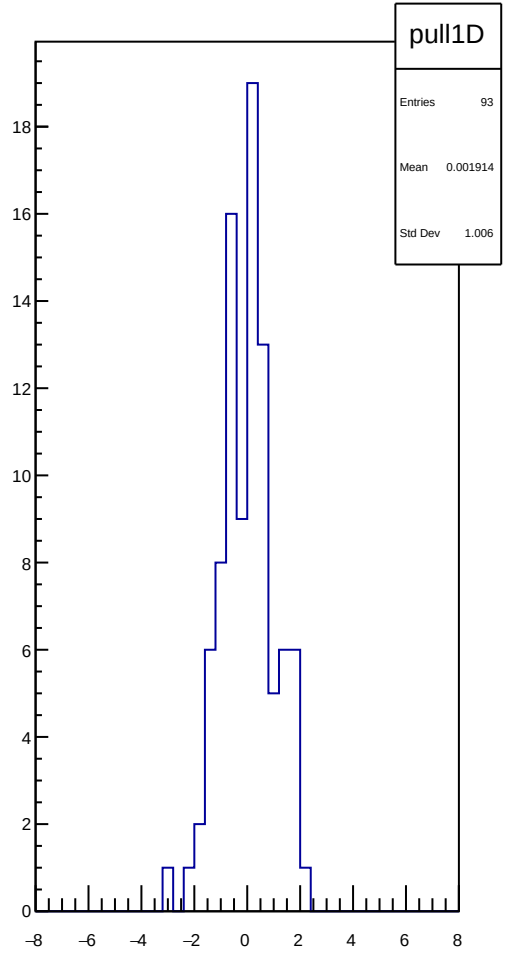

reg_asym_sam_26_dd_rms vs run
χ² / ndf 6988 / 92
p0 177.3 ± 0.1306
195
190
185
180
175
170
165
160
155


asym_sam_26_dd_reg_correction_mean vs run
×10^3
χ² / ndf 88.12 / 92
p0 −635.9 ± 4207
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean −9.718
Std Dev 52.47
2
1
0
−1
−2


pull1D
Entries 93
Mean −0.01046
Std Dev 0.9734
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_26_dd_reg_correction_rms vs run
χ² / ndf 7100 / 92
p0 4040 ± 2.975
4800
4600
4400
4200
4000
3800
3600
3400


cor_asym_sam_26_dd_mean vs run
χ² / ndf 94.2 / 92
p0 −93.83 ± 184.6
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 93
Mean −126.6
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 93
Mean 0.001914
Std Dev 1.006
18
16
14
12
10
8
6
4
2
0
−8
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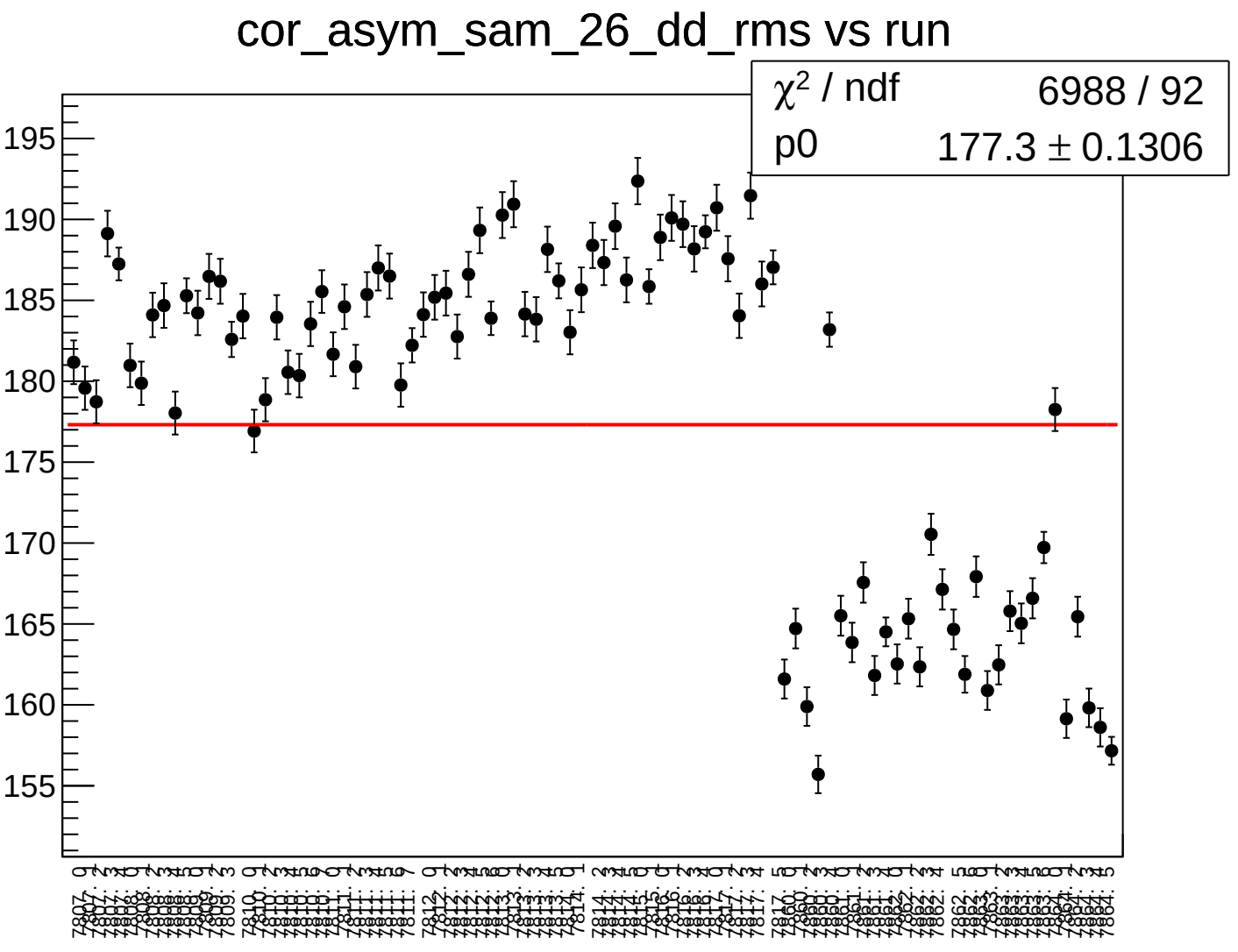
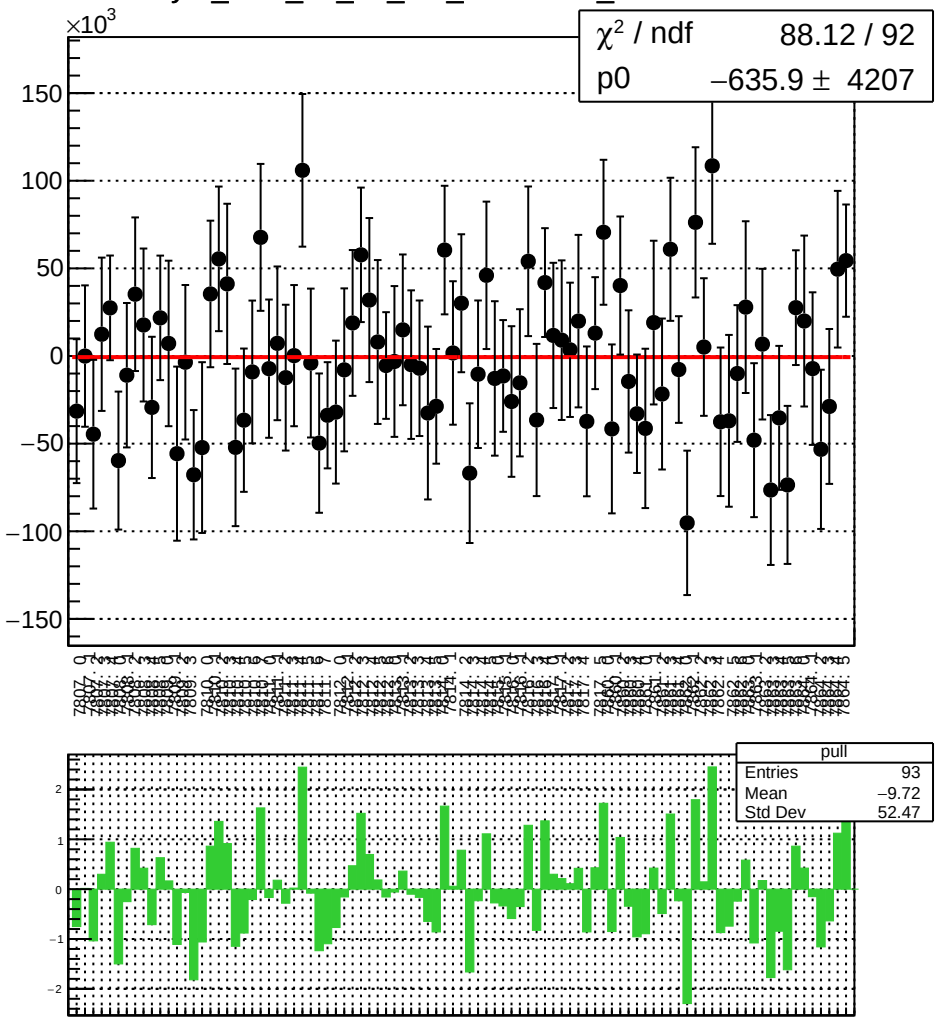
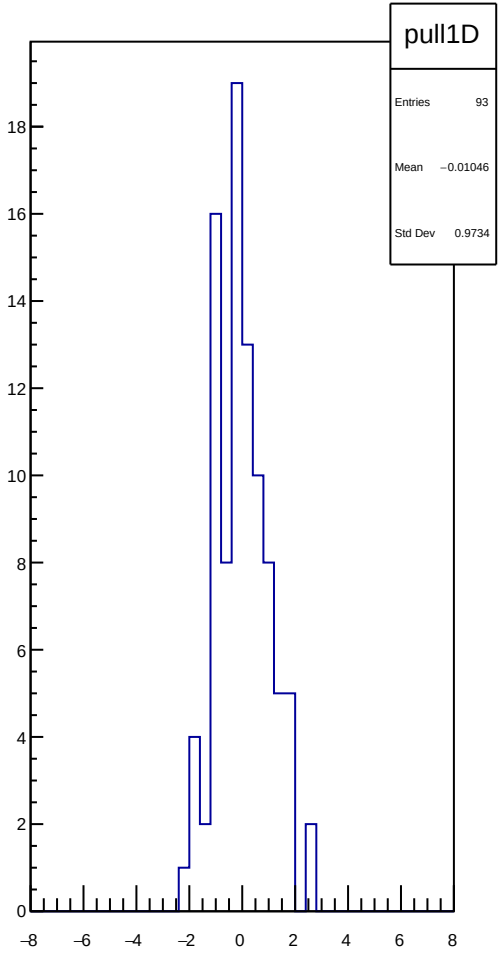
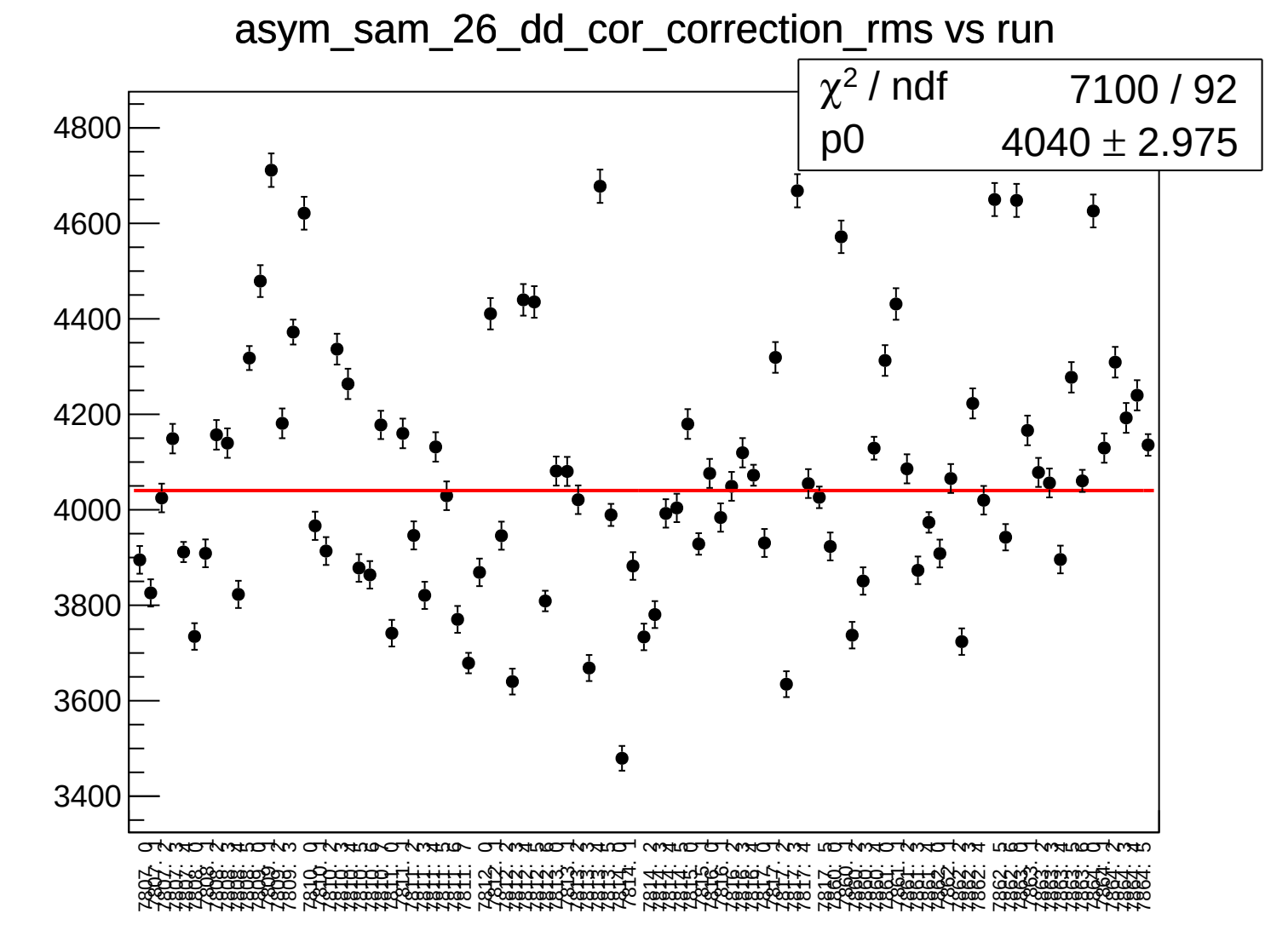
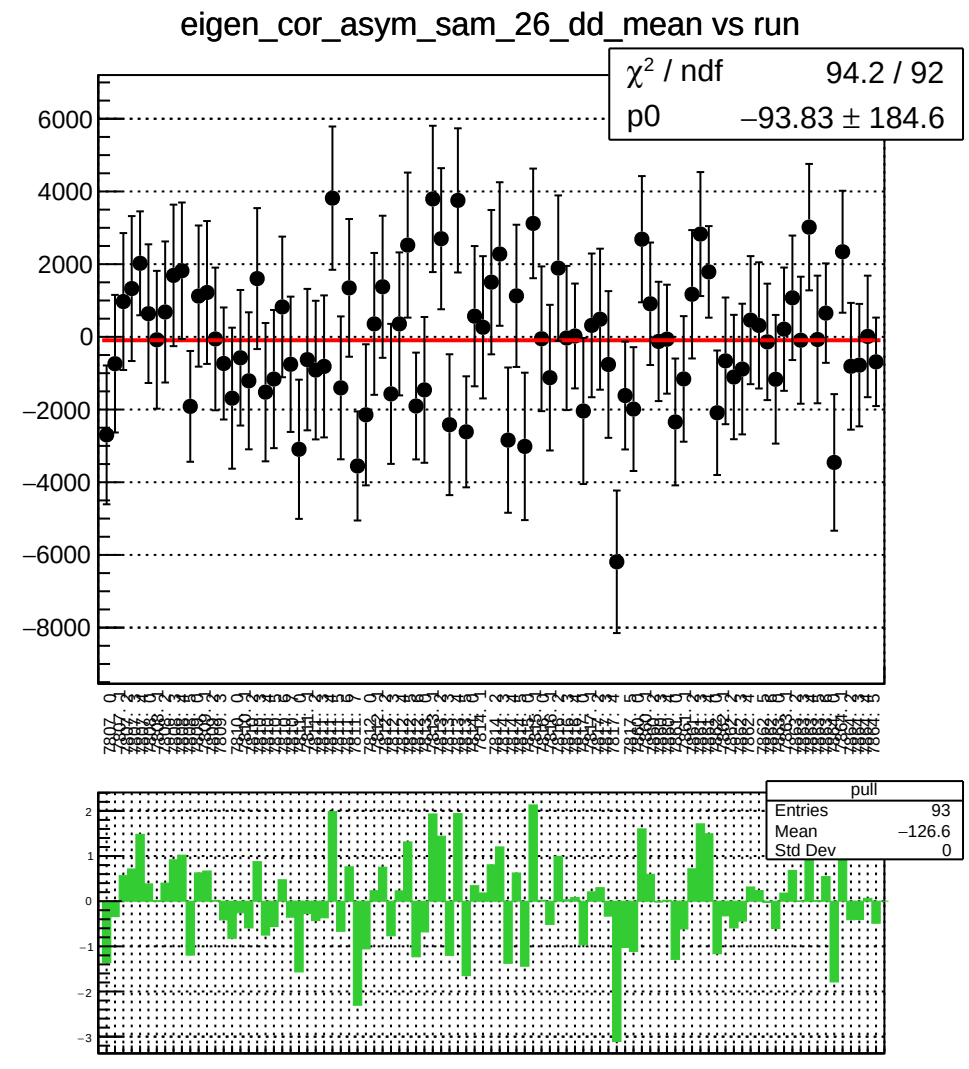
−4
−2
0
2
4
6
8

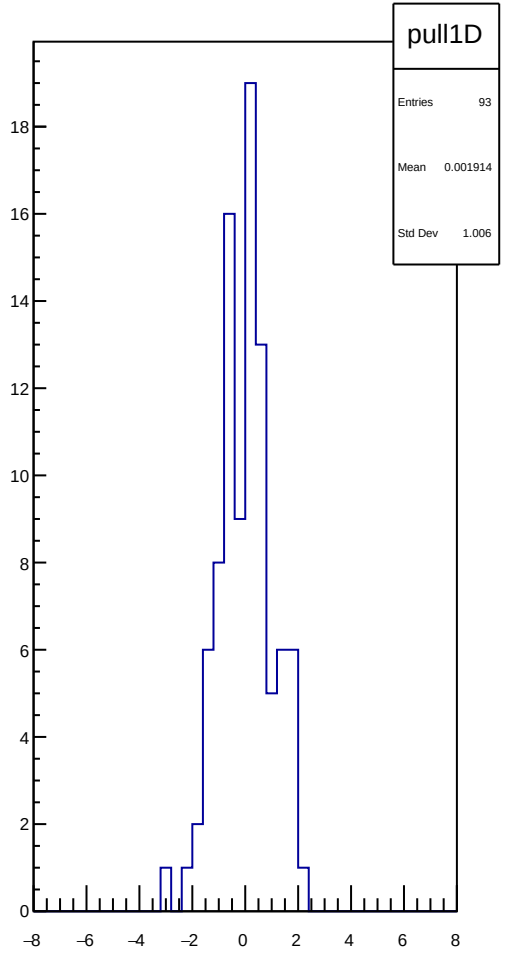

cor_asym_sam_26_dd_rms vs run
χ² / ndf 6988 / 92
p0 177.3 ± 0.1306
195
190
185
180
175
170
165
160
155


asym_sam_26_dd_cor_correction_mean vs run
×10^3
χ² / ndf 88.12 / 92
p0 −635.9 ± 4207
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean −9.72
Std Dev 52.47
2
1
0
−1
−2


pull1D
Entries 93
Mean −0.01046
Std Dev 0.9734
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_26_dd_cor_correction_rms vs run
χ² / ndf 7100 / 92
p0 4040 ± 2.975
4800
4600
4400
4200
4000
3800
3600
3400


eigen_cor_asym_sam_26_dd_mean vs run
χ² / ndf 94.2 / 92
p0 −93.83 ± 184.6
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 93
Mean −126.6
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 93
Mean 0.001914
Std Dev 1.006
18
16
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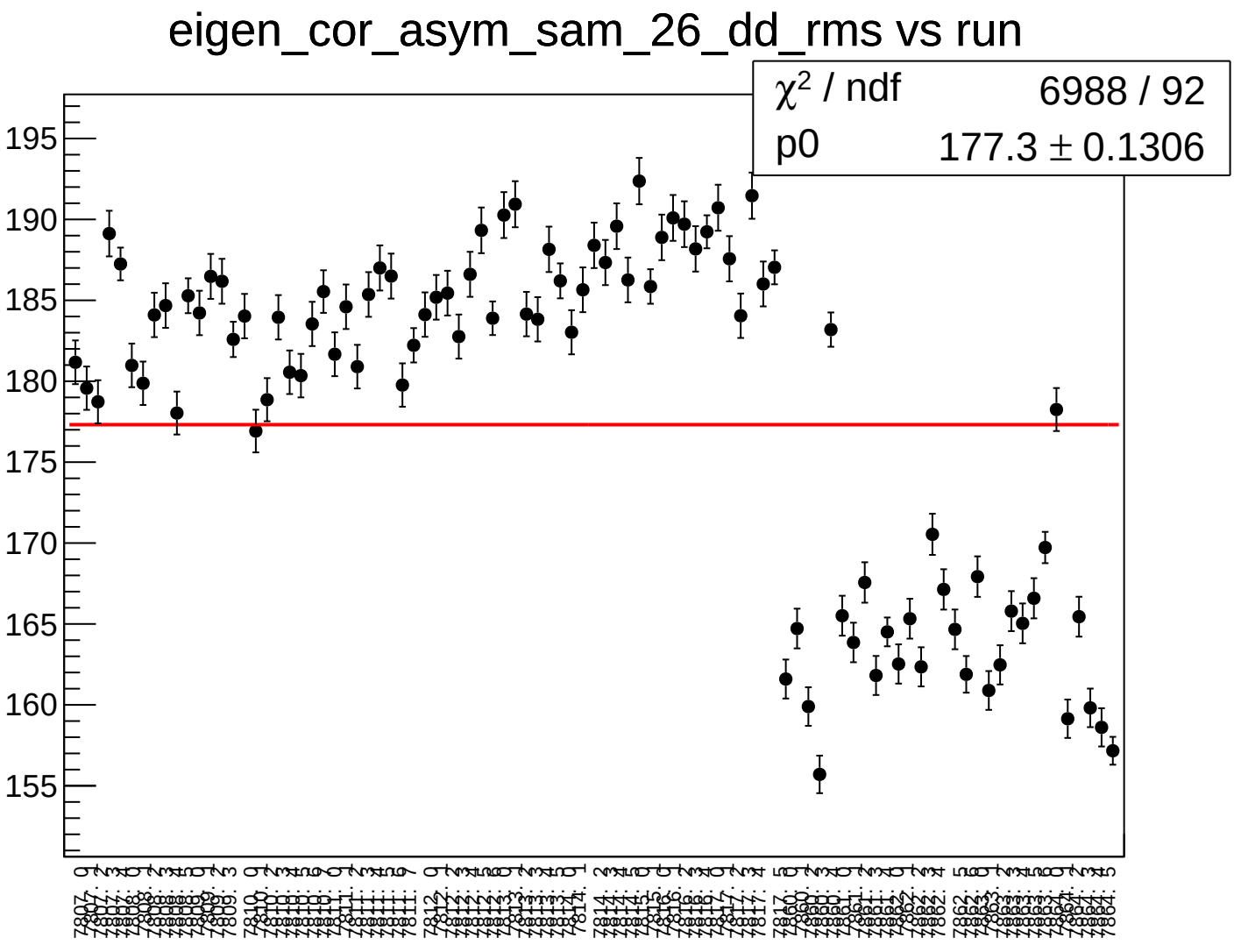
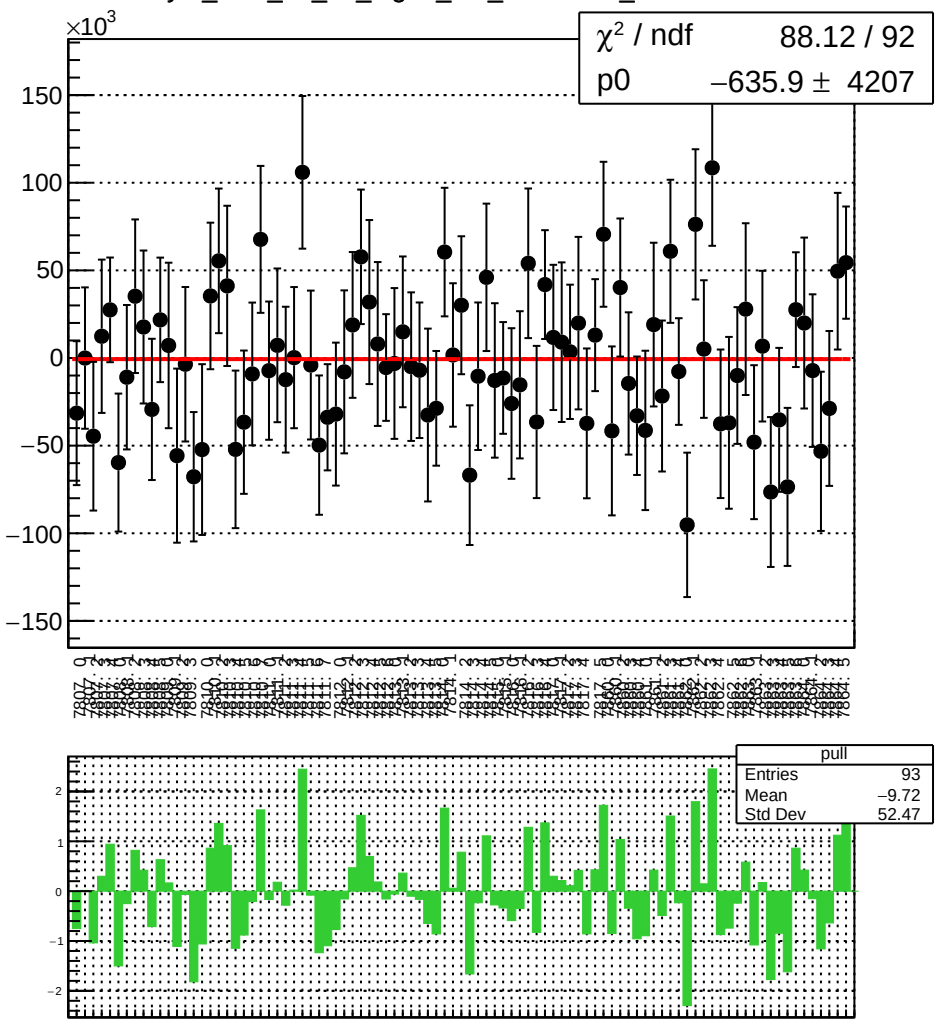
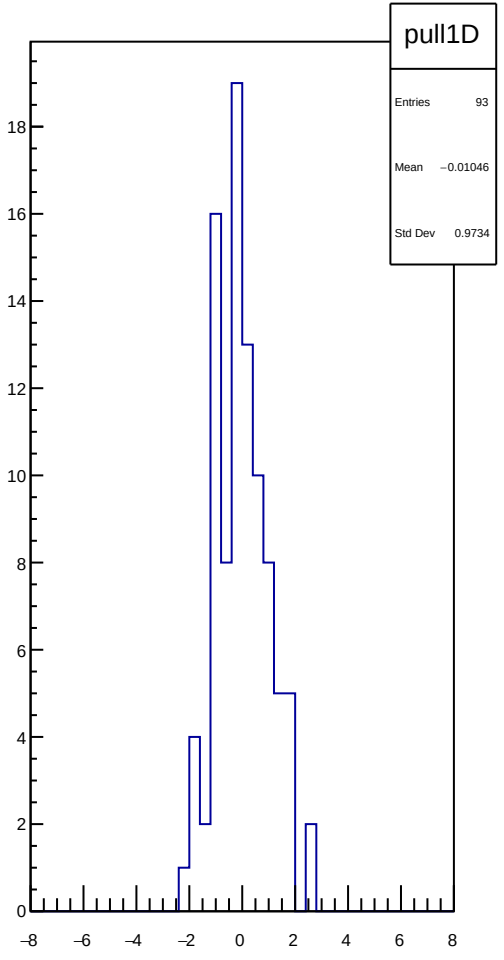
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_26_dd_rms vs run
χ² / ndf 6988 / 92
p0 177.3 ± 0.1306
195
190
185
180
175
170
165
160
155


asym_sam_26_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 88.12 / 92
p0 −635.9 ± 4207
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean −9.72
Std Dev 52.47
2
1
0
−1
−2


pull1D
Entries 93
Mean −0.01046
Std Dev 0.9734
18
16
14
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10
8
6
4
2
0
−8
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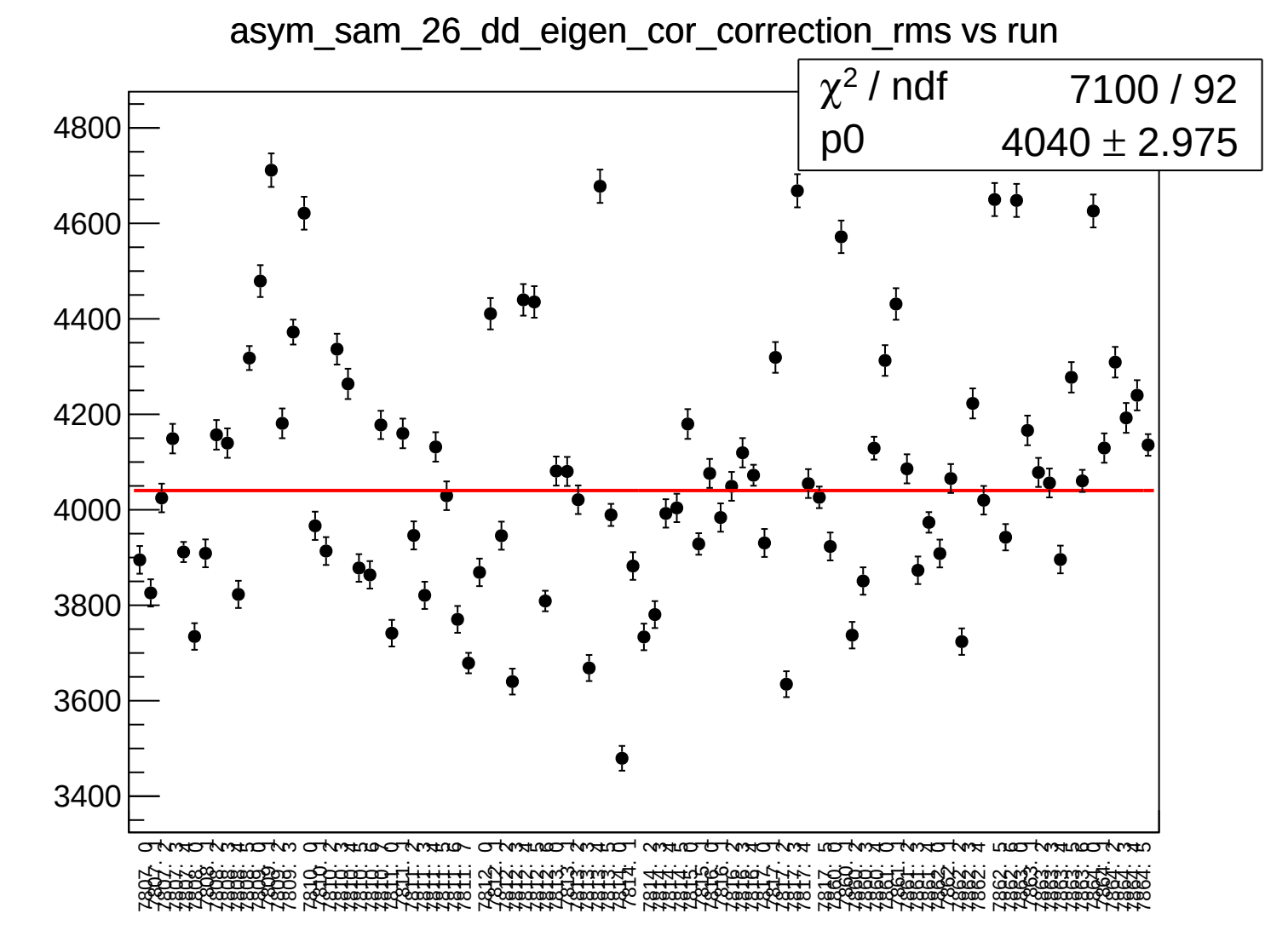
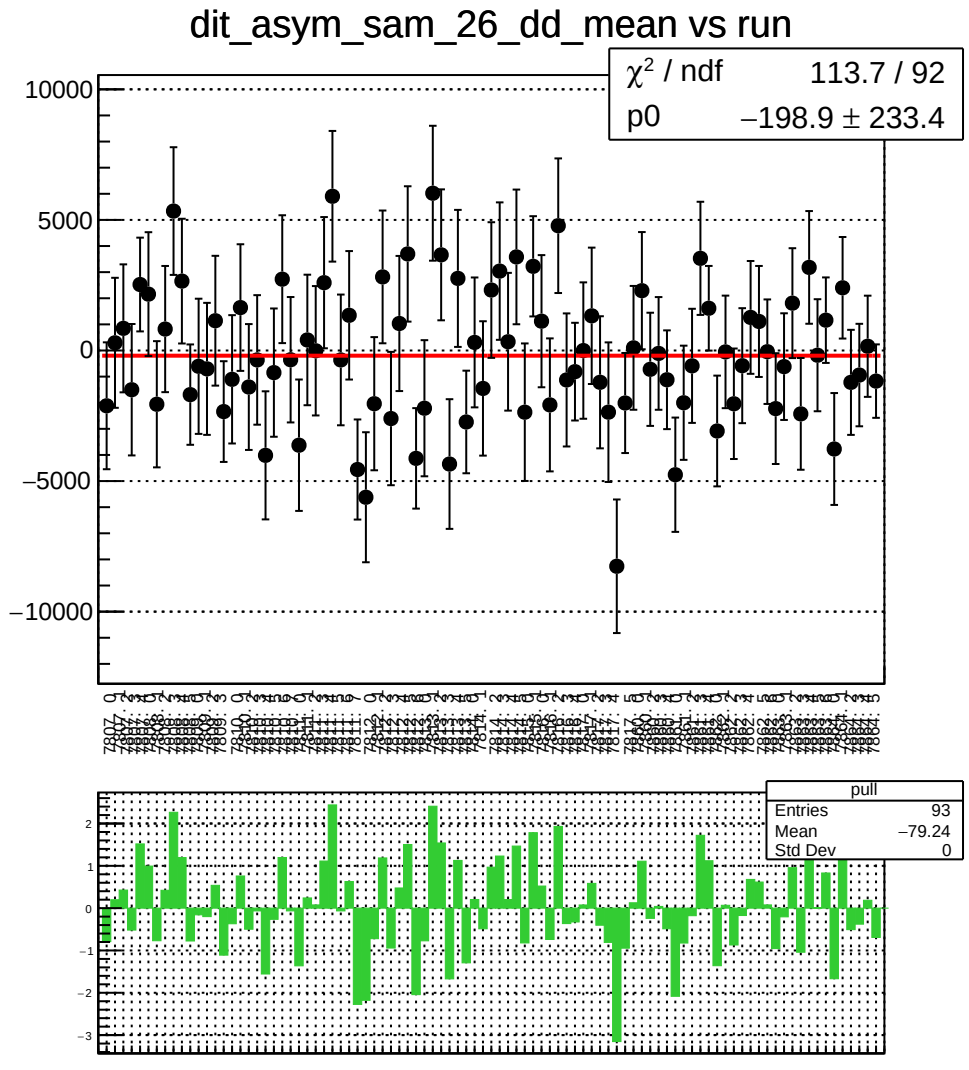
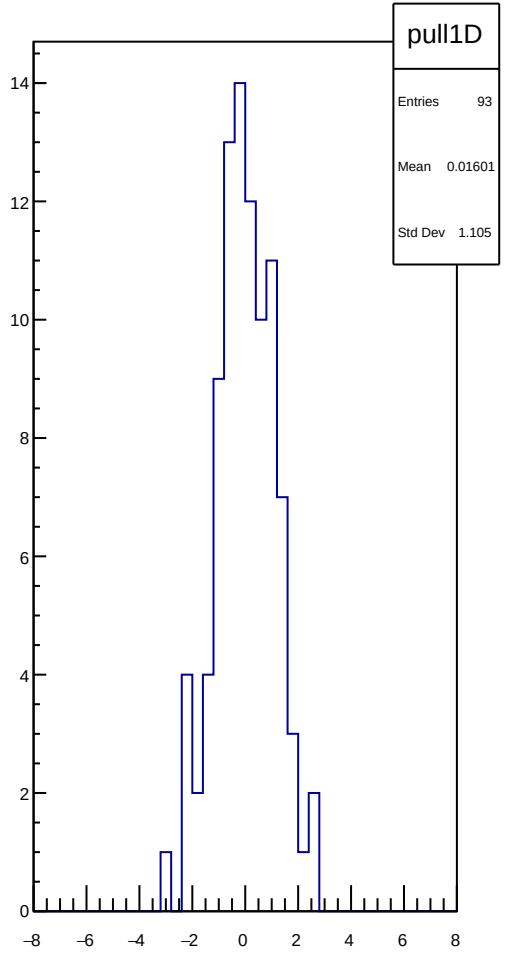
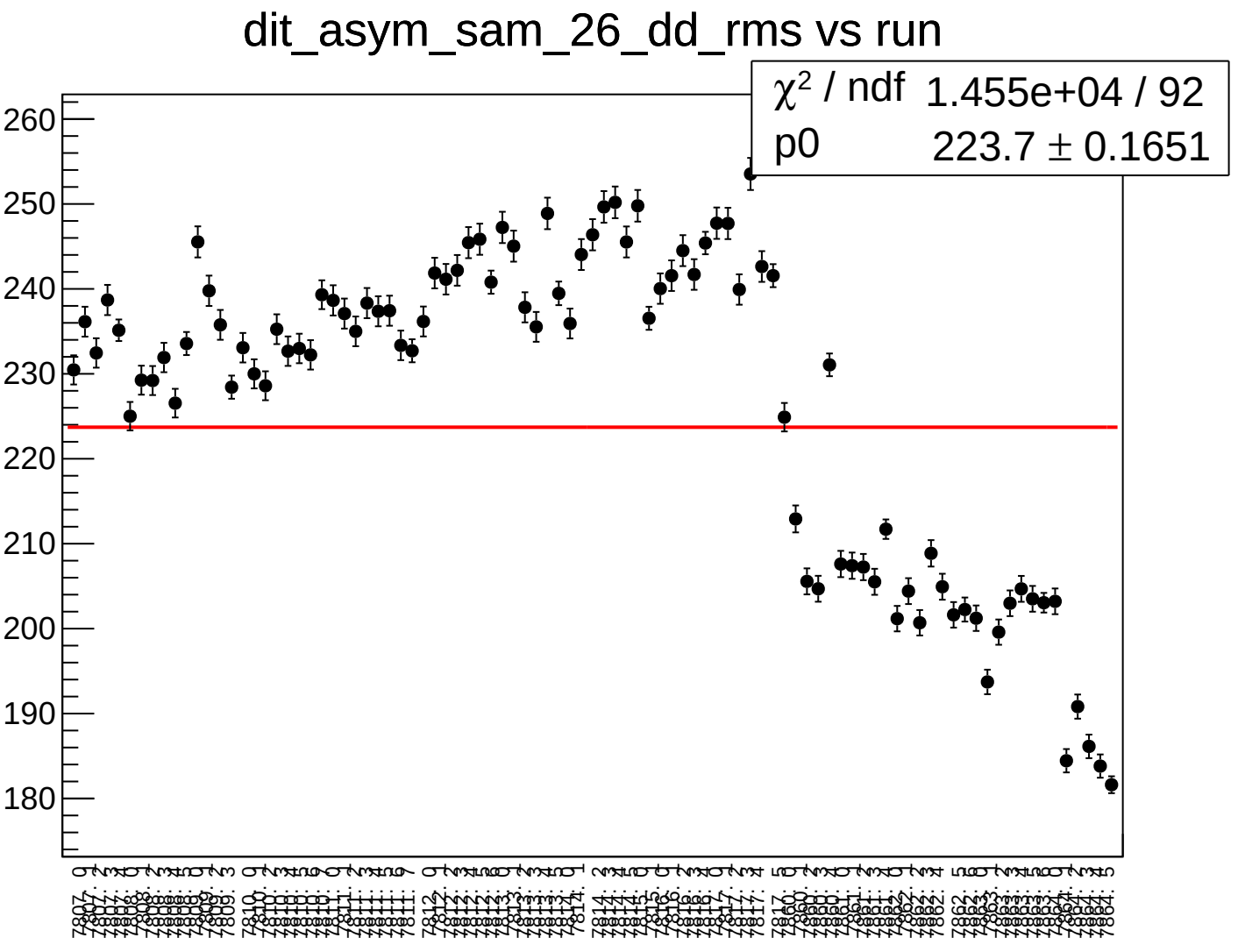
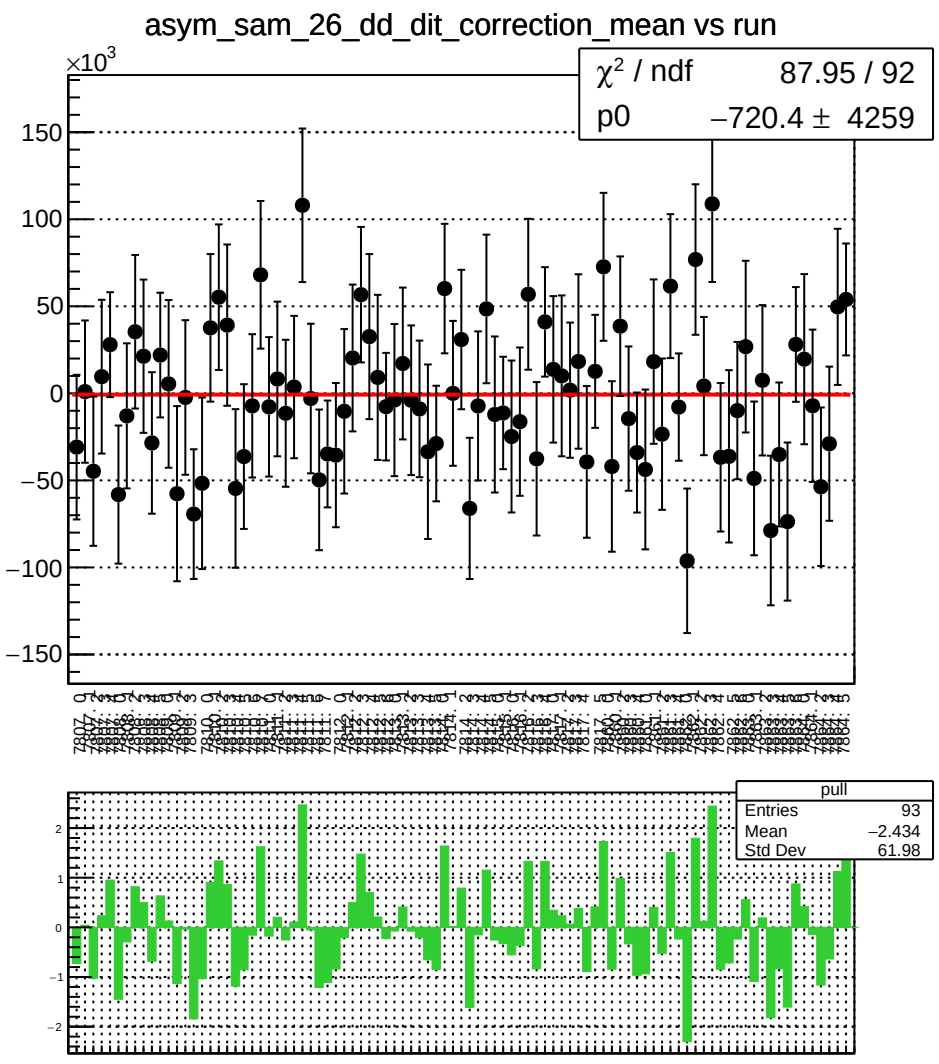
−4
−2
0
2
4
6
8

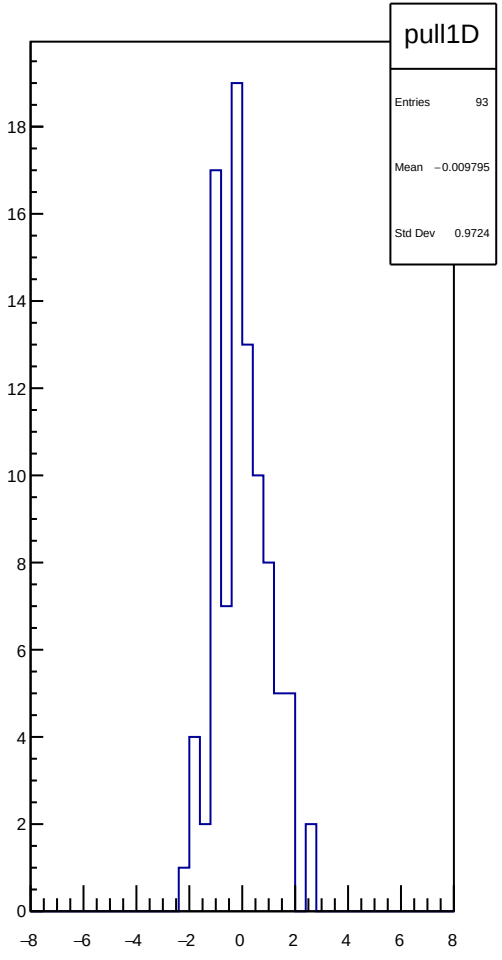

asym_sam_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 7100 / 92
p0 4040 ± 2.975
4800
4600
4400
4200
4000
3800
3600
3400

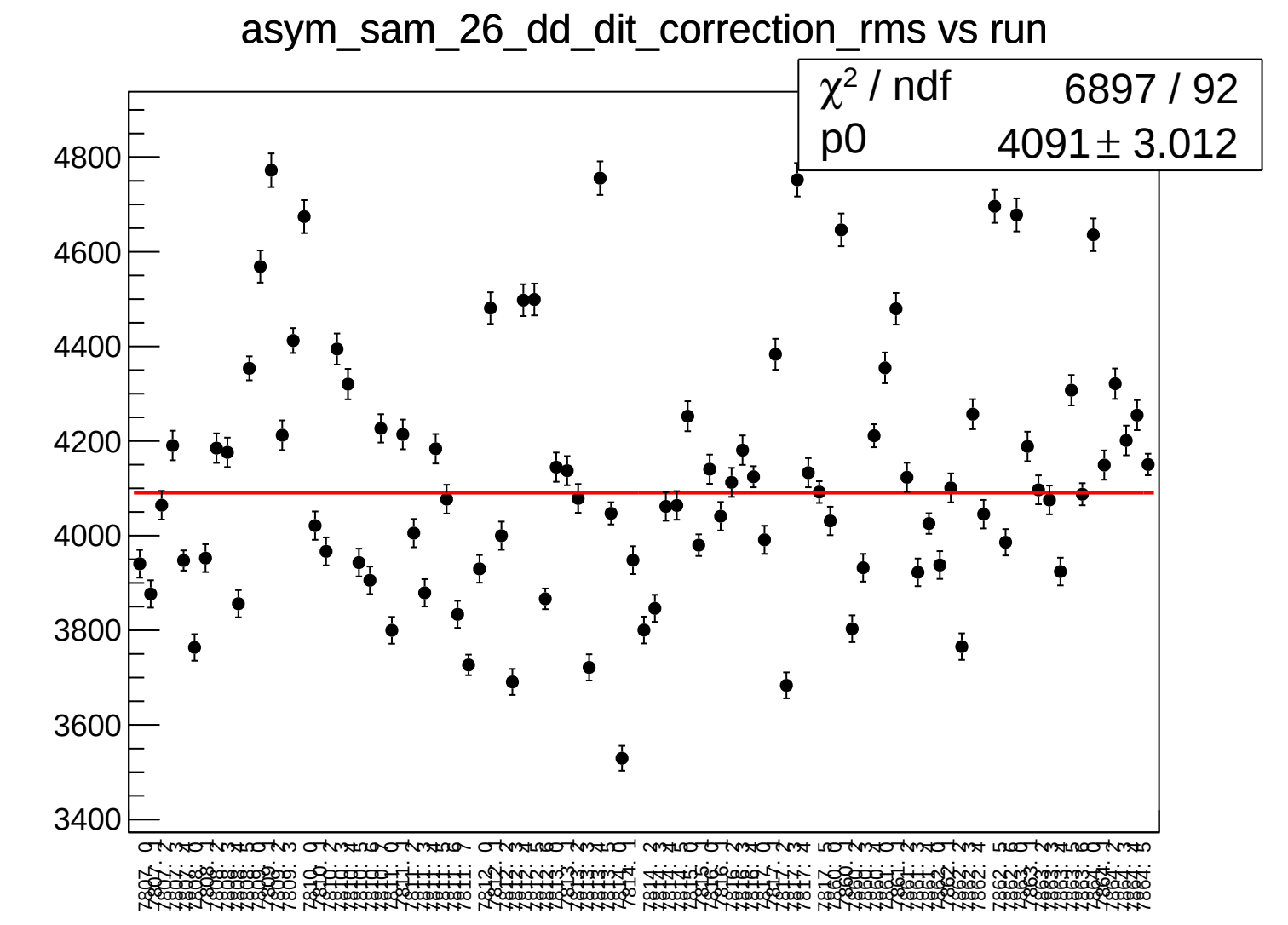

dit_asym_sam_26_dd_mean vs run
χ² / ndf 113.7 / 92
p0 −198.9 ± 233.4
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −79.24
Std Dev 0
2
1
0
−1
−2
−3

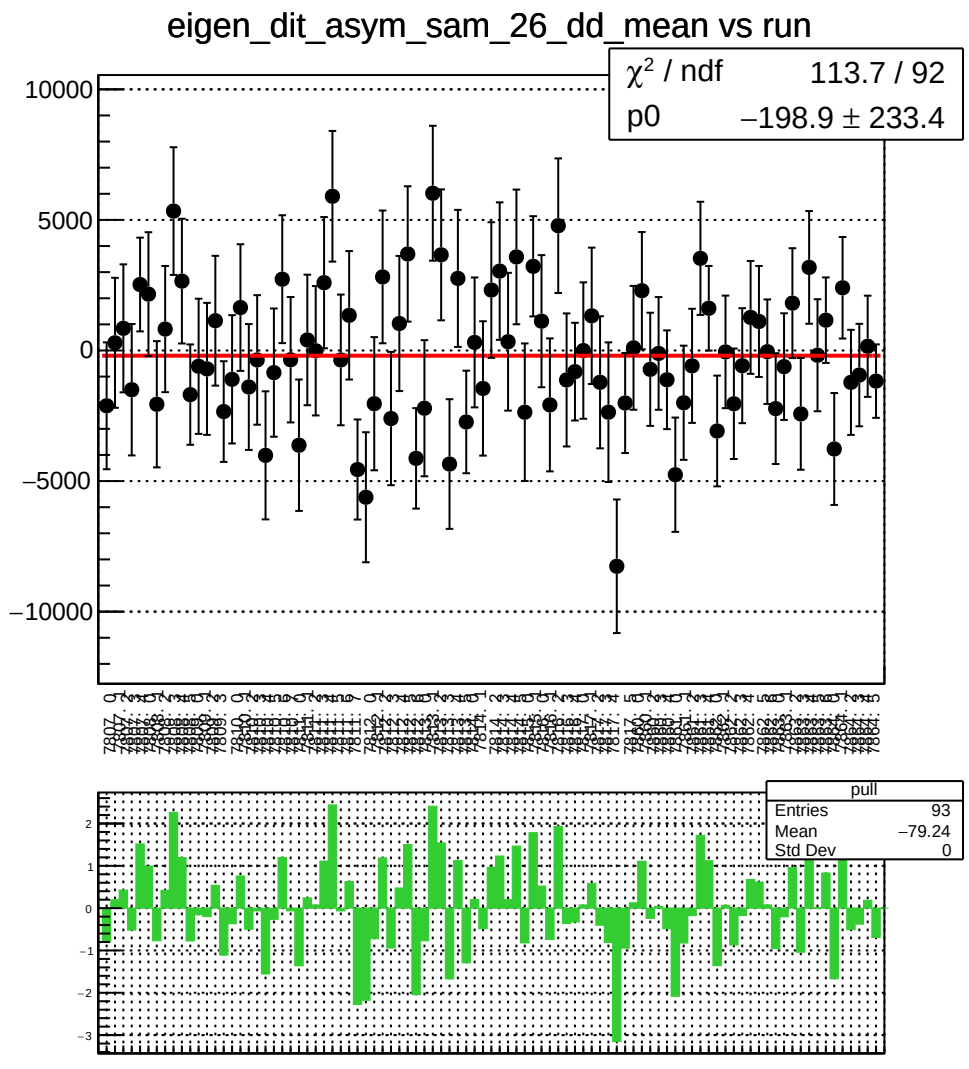

pull1D
Entries 93
Mean 0.01601
Std Dev 1.105
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

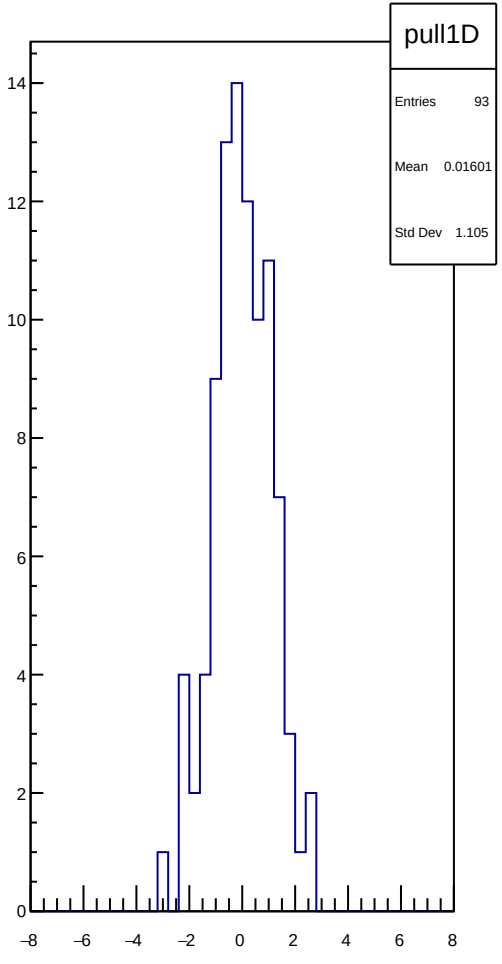

dit_asym_sam_26_dd_rms vs run
χ² / ndf 1.455e+04 / 92
p0 223.7 ± 0.1651
260
250
240
230
220
210
200
190
180

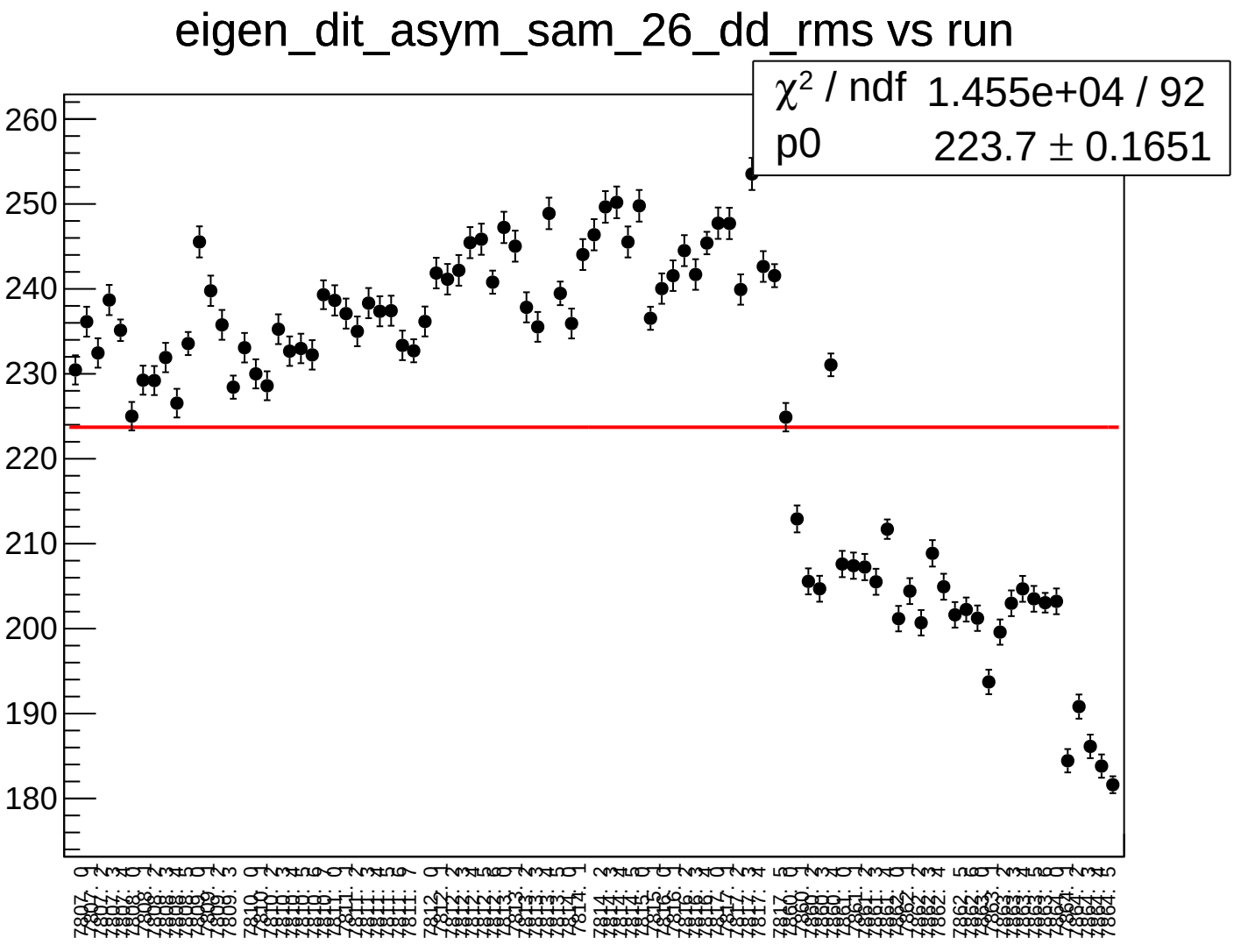

asym_sam_26_dd_dit_correction_mean vs run
×10^3
χ² / ndf 87.95 / 92
p0 −720.4 ± 4259
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean −2.434
Std Dev 61.98
2
1
0
−1
−2

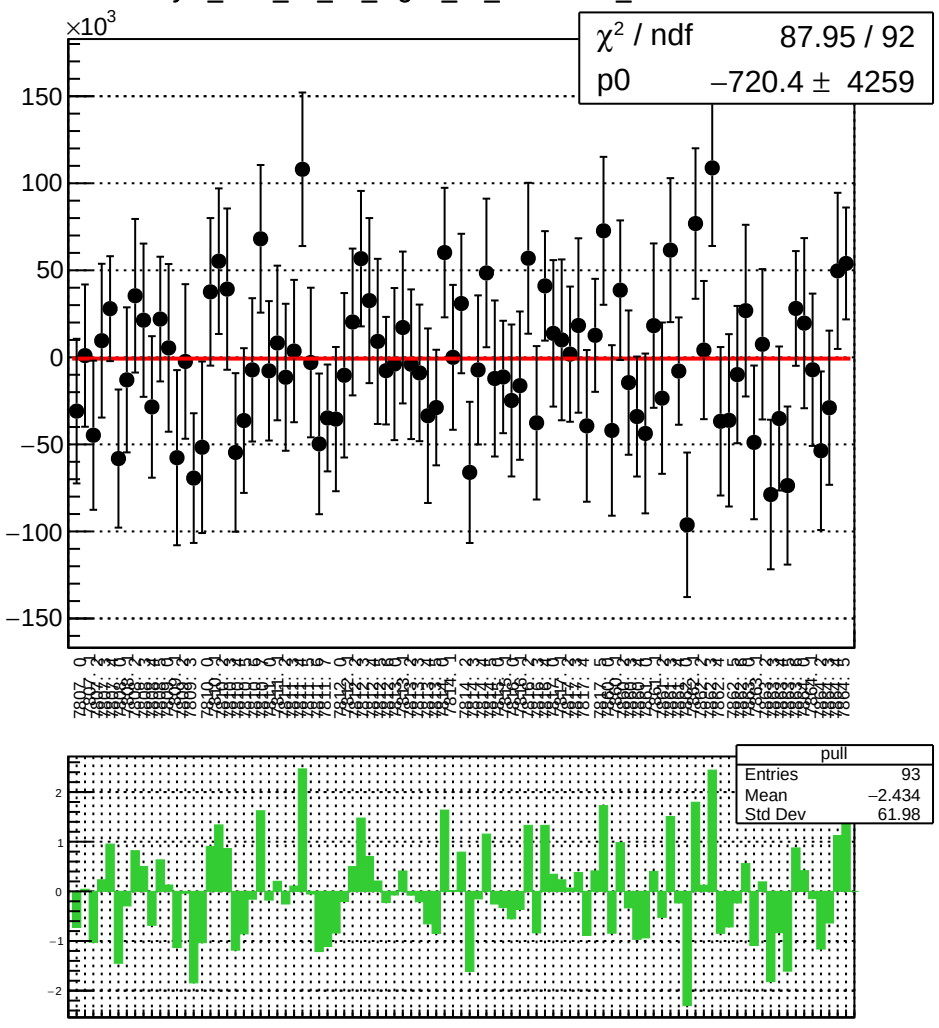

pull1D
Entries 93
Mean −0.009795
Std Dev 0.9724
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

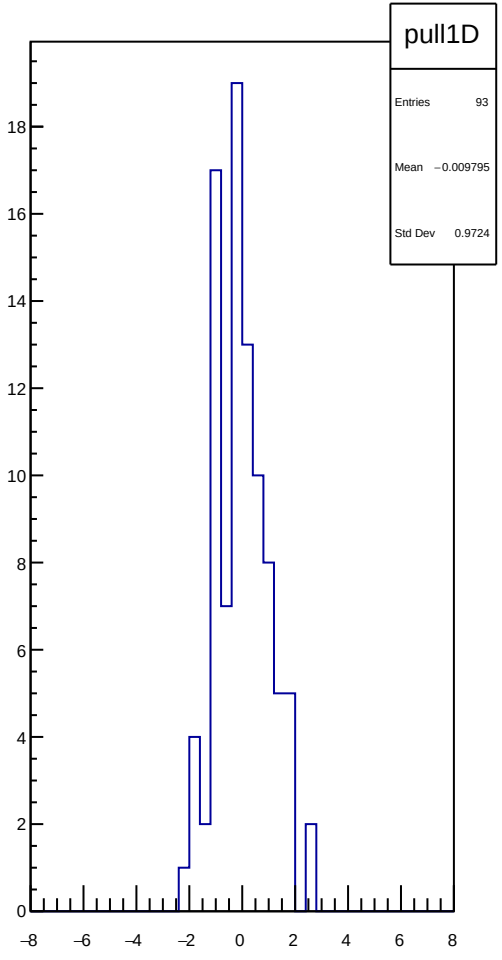

asym_sam_26_dd_dit_correction_rms vs run
χ² / ndf 6897 / 92
p0 4091 ± 3.012
4800
4600
4400
4200
4000
3800
3600
3400

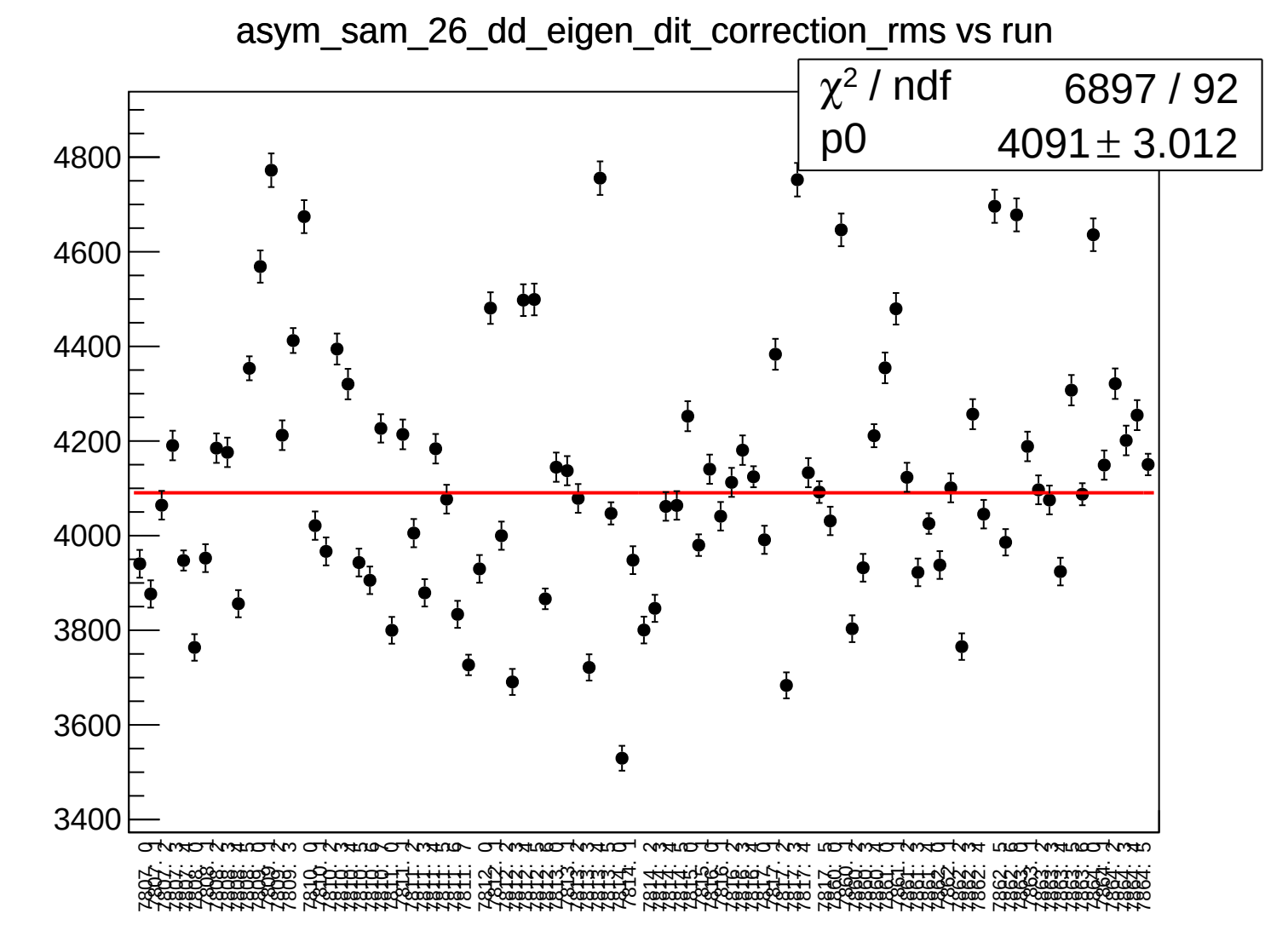

eigen_dit_asym_sam_26_dd_mean vs run
χ² / ndf 113.7 / 92
p0 −198.9 ± 233.4
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −79.24
Std Dev 0
2
1
0
−1
−2
−3

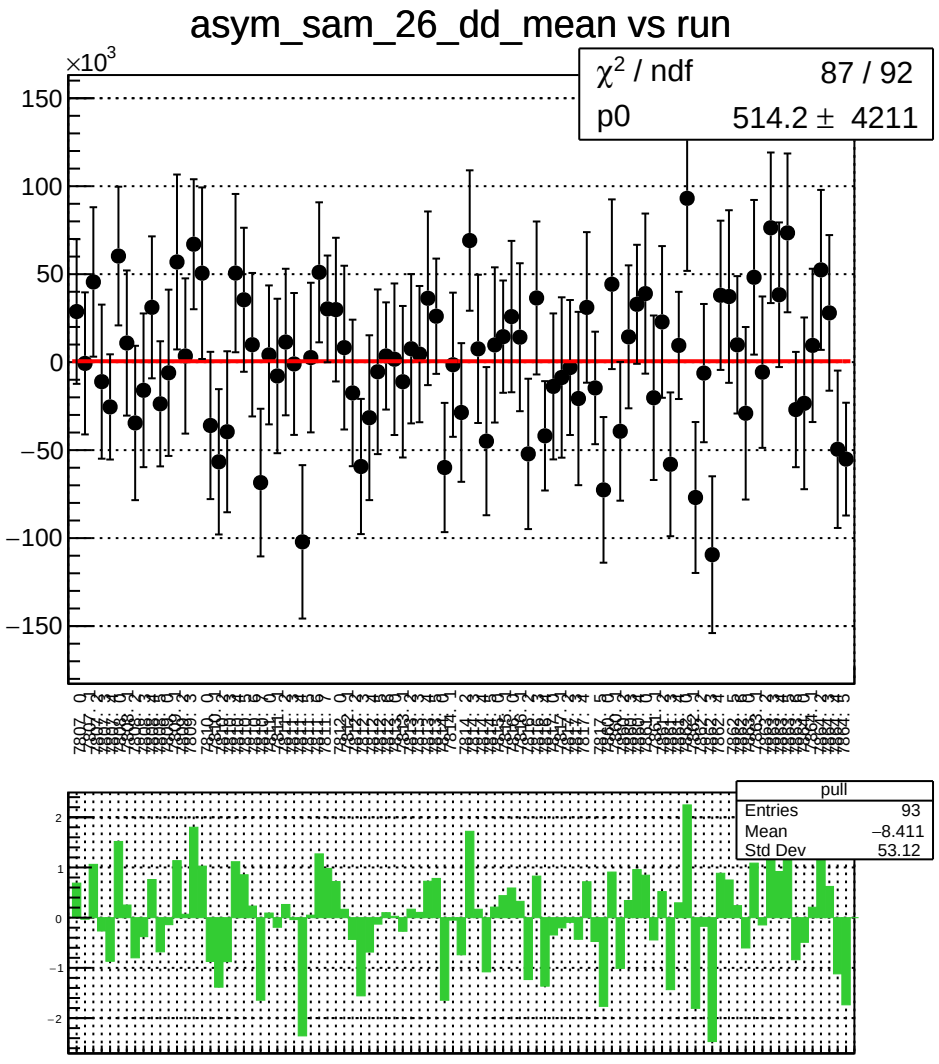

pull1D
Entries 93
Mean 0.01601
Std Dev 1.105
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

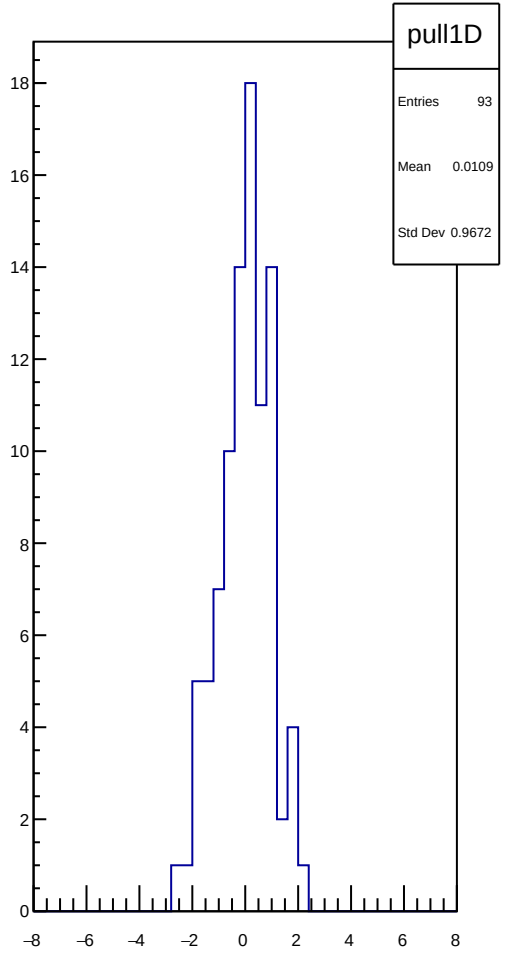

eigen_dit_asym_sam_26_dd_rms vs run
χ² / ndf 1.455e+04 / 92
p0 223.7 ± 0.1651
260
250
240
230
220
210
200
190
180


asym_sam_26_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 87.95 / 92
p0 −720.4 ± 4259
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean −2.434
Std Dev 61.98
2
1
0
−1
−2


pull1D
Entries 93
Mean −0.009795
Std Dev 0.9724
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 6897 / 92
p0 4091 ± 3.012
4800
4600
4400
4200
4000
3800
3600
3400


asym_sam_26_dd_mean vs run
×10^3
χ² / ndf 87 / 92
p0 514.2 ± 4211
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean −8.411
Std Dev 53.12
2
1
0
−1
−2


pull1D
Entries 93
Mean 0.0109
Std Dev 0.9672
18
16
14
12
10
8
6
4
2
0
−8
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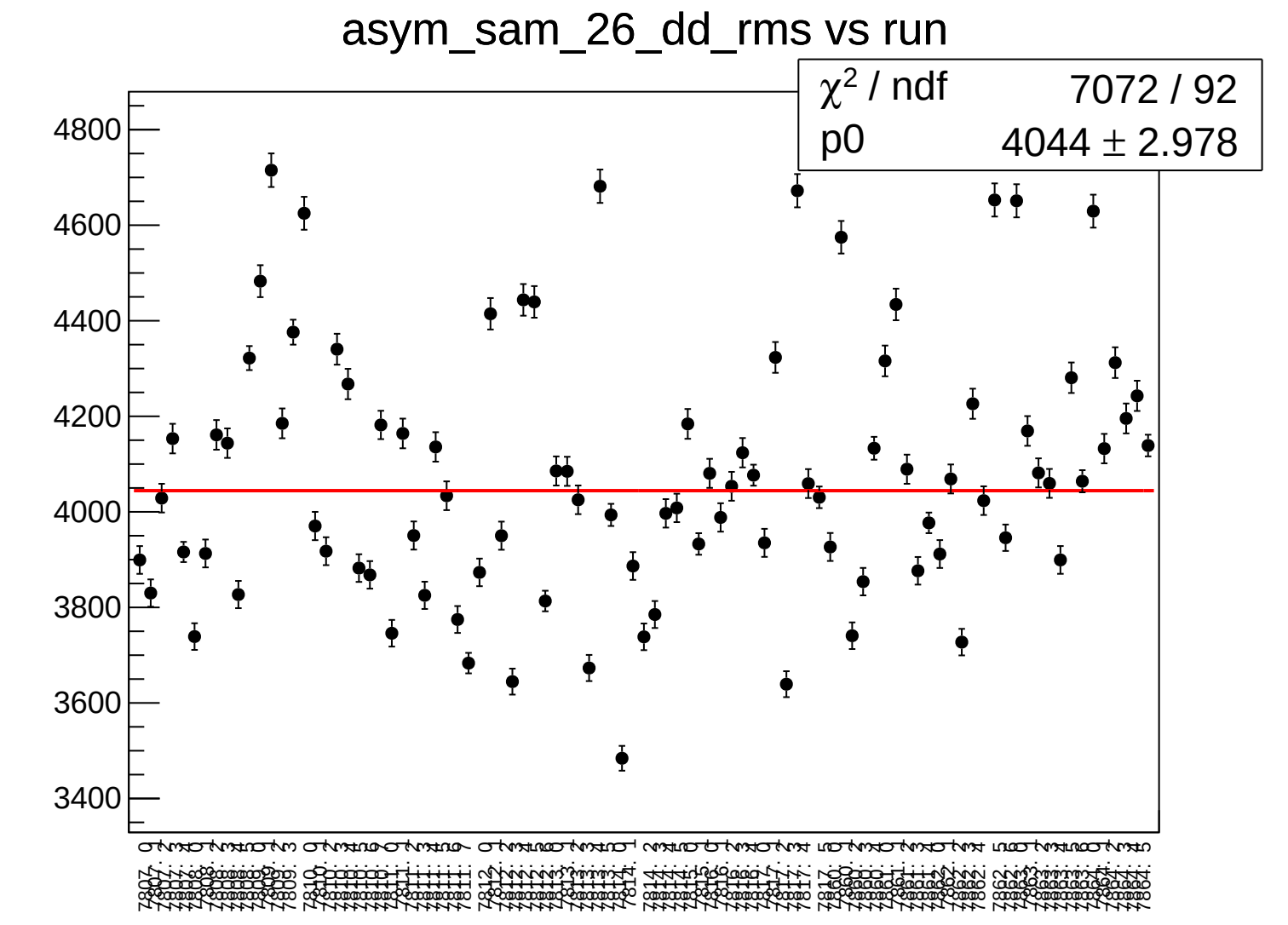
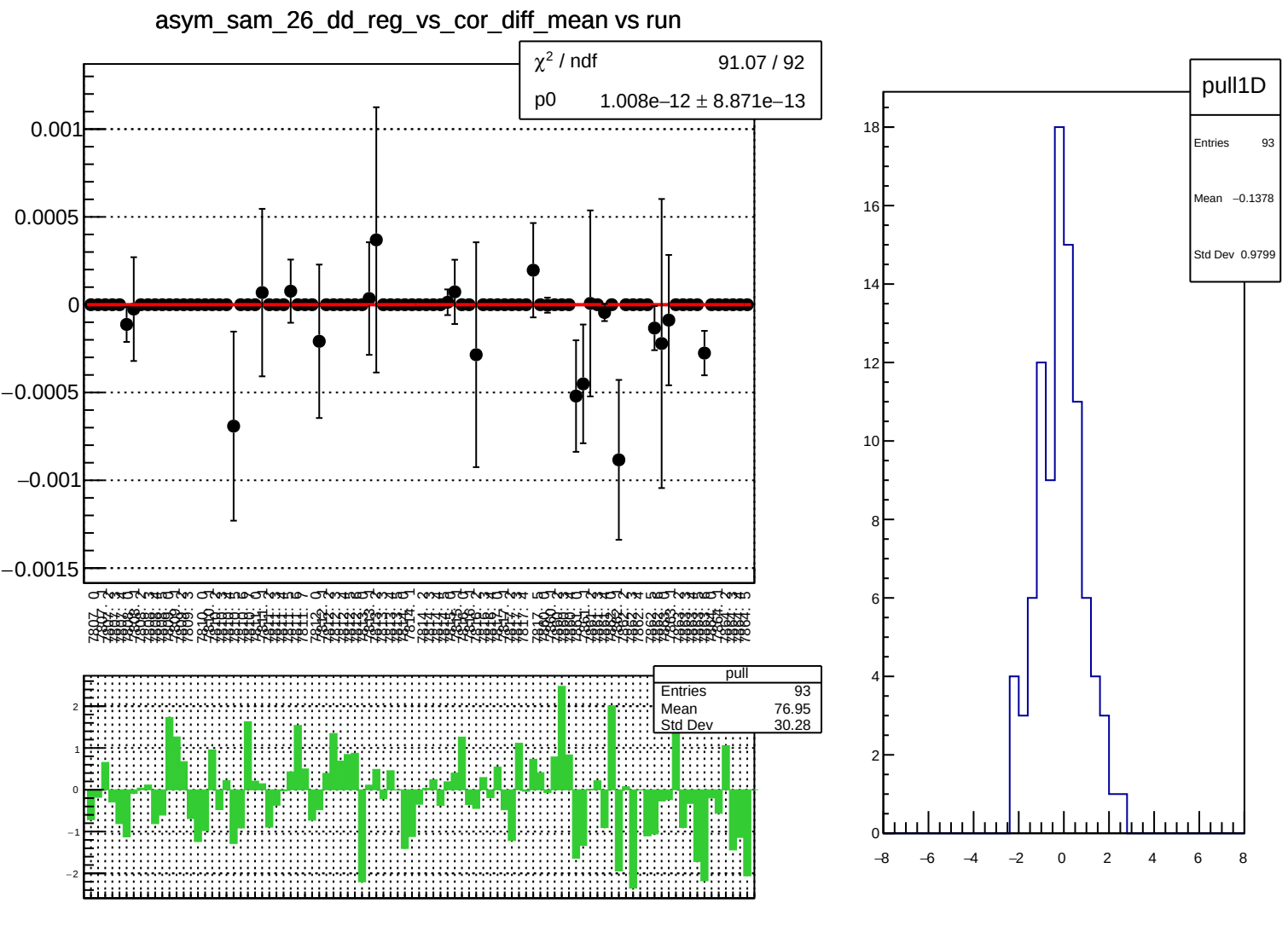
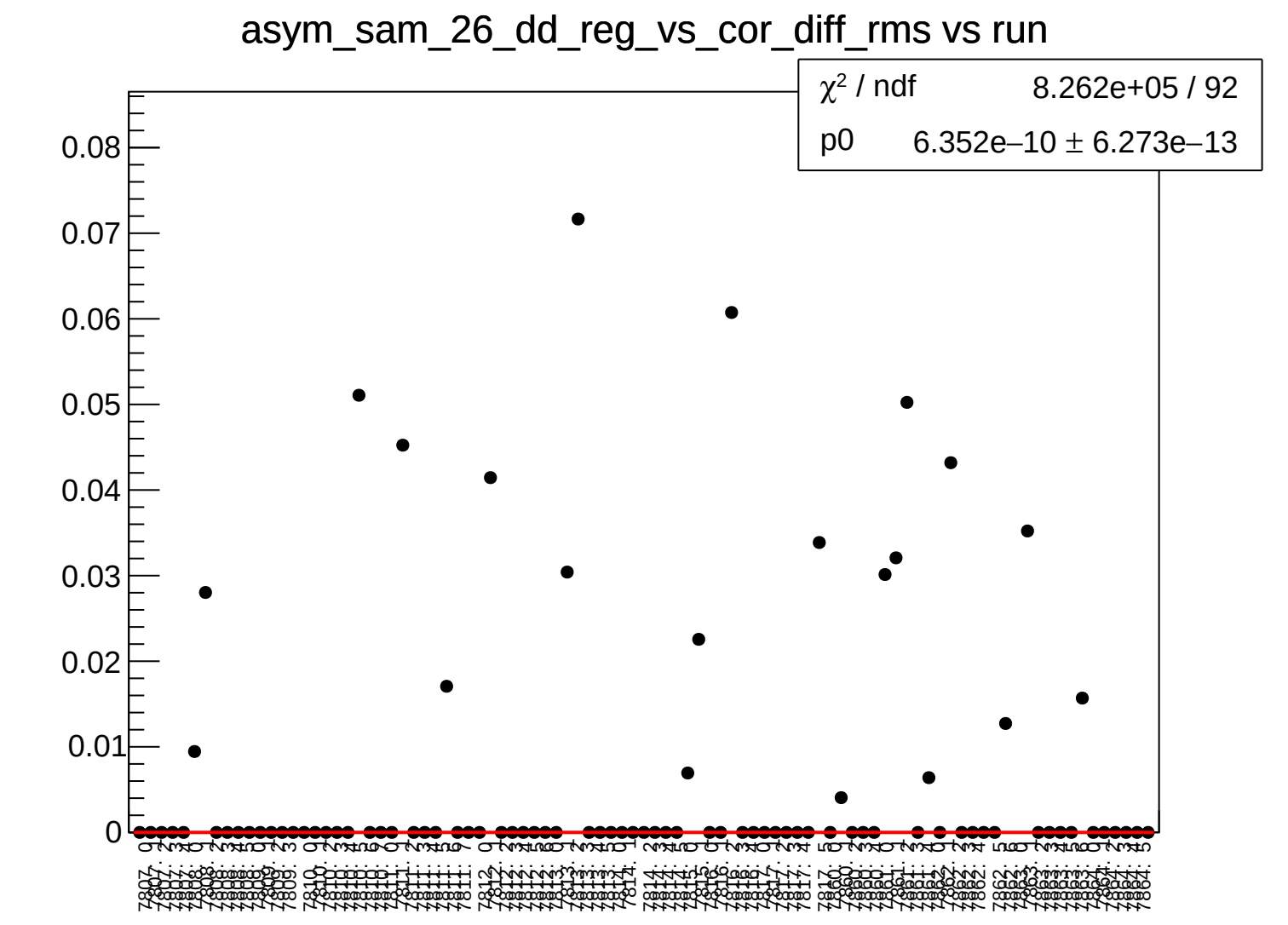
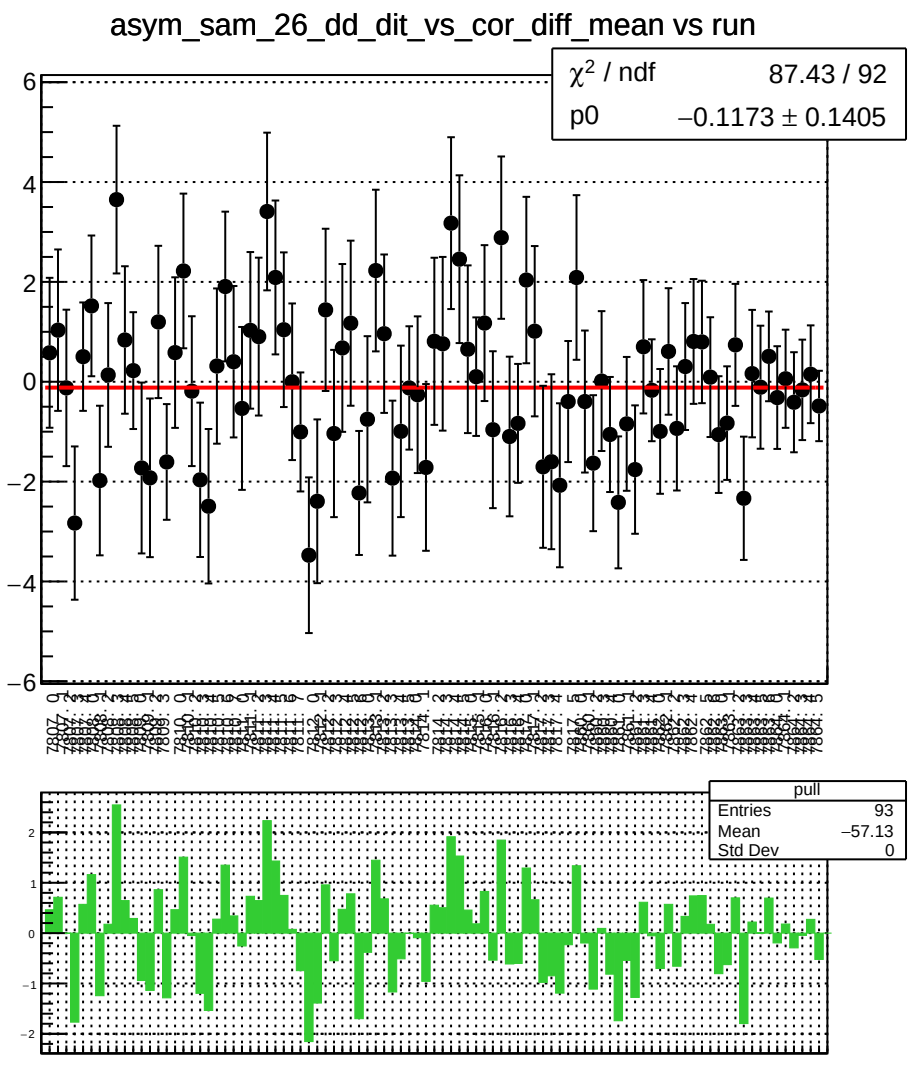
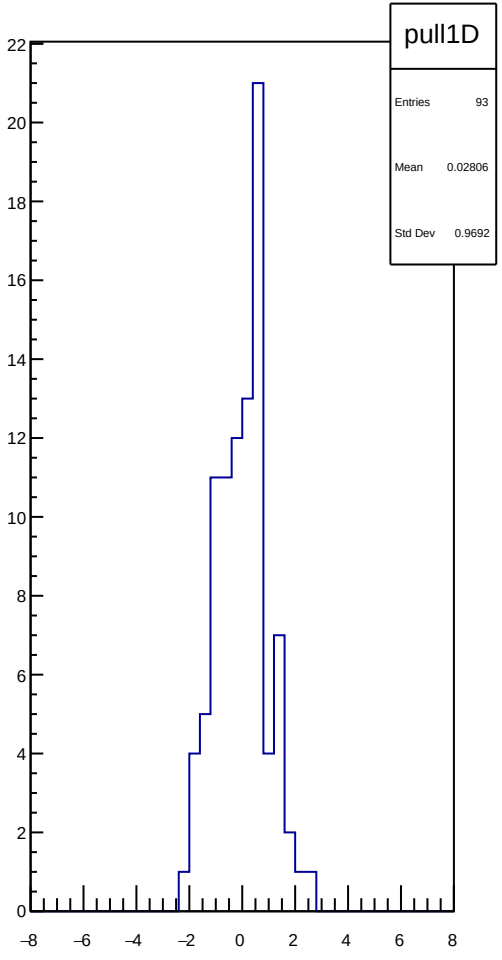
0
2
4
6
8

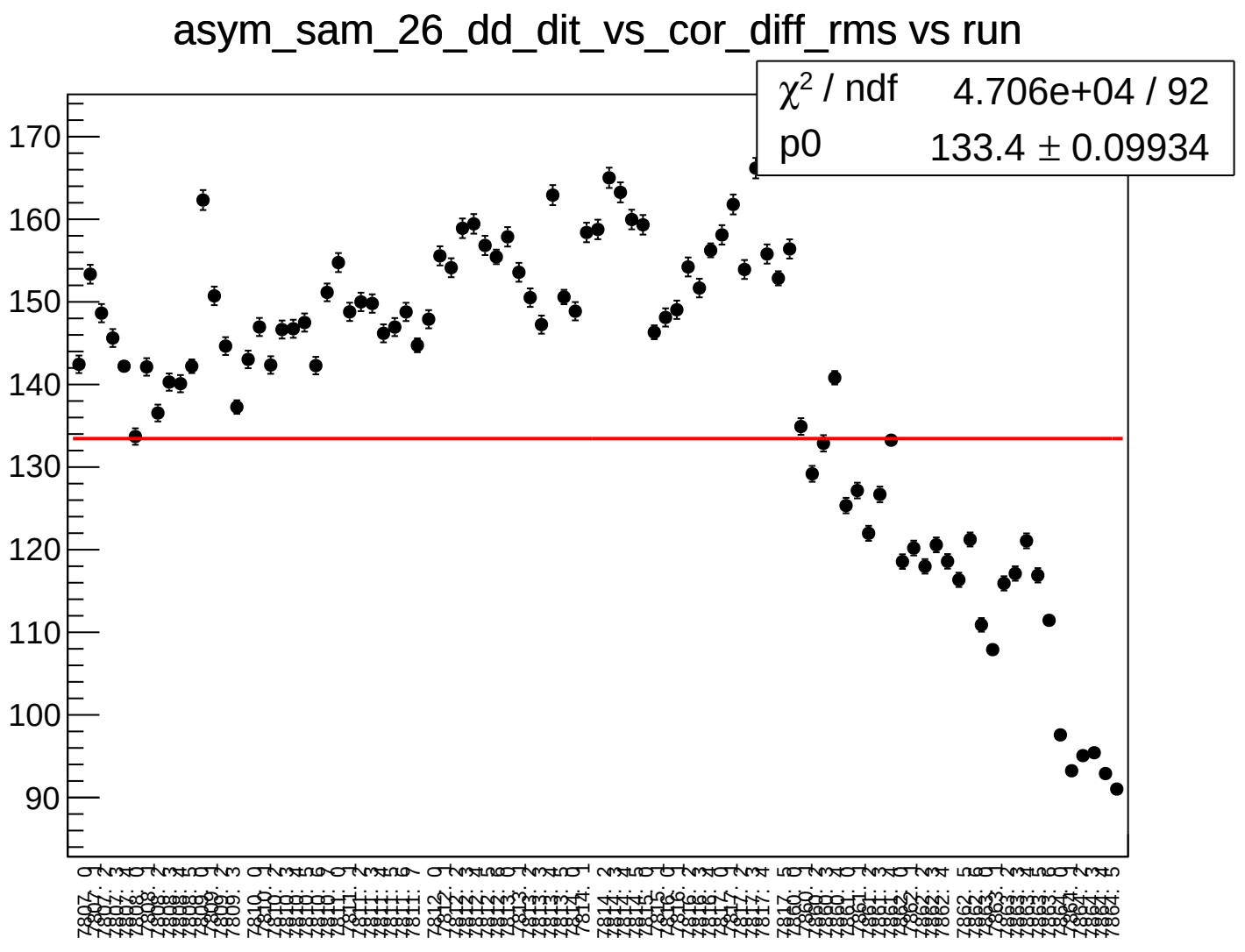

asym_sam_26_dd_rms vs run
χ^2 / ndf 7072 / 92
p0 4044 ± 2.978
4800
4600
4400
4200
4000
3800
3600
3400

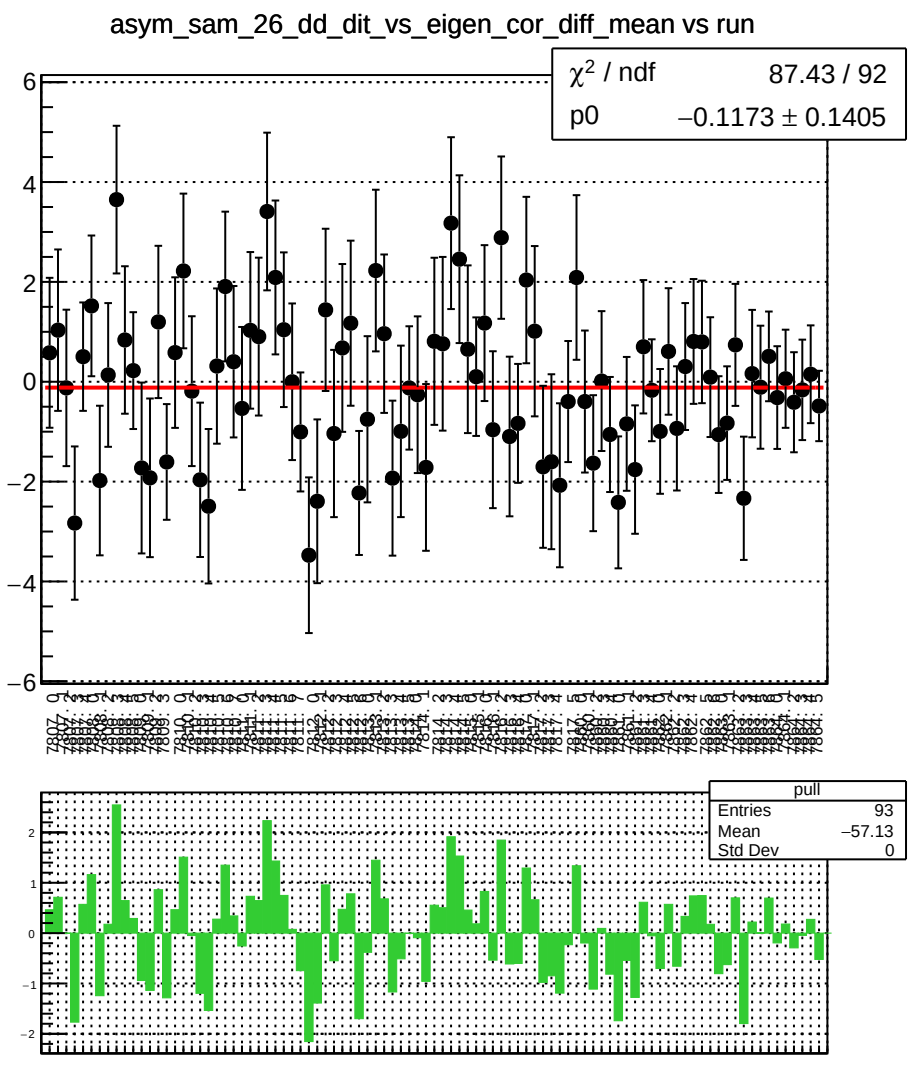

asym_sam_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 91.07 / 92
p0 1.008e−12 ± 8.871e−13
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 93
Mean 76.95
Std Dev 30.28
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.1378
Std Dev 0.9799
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

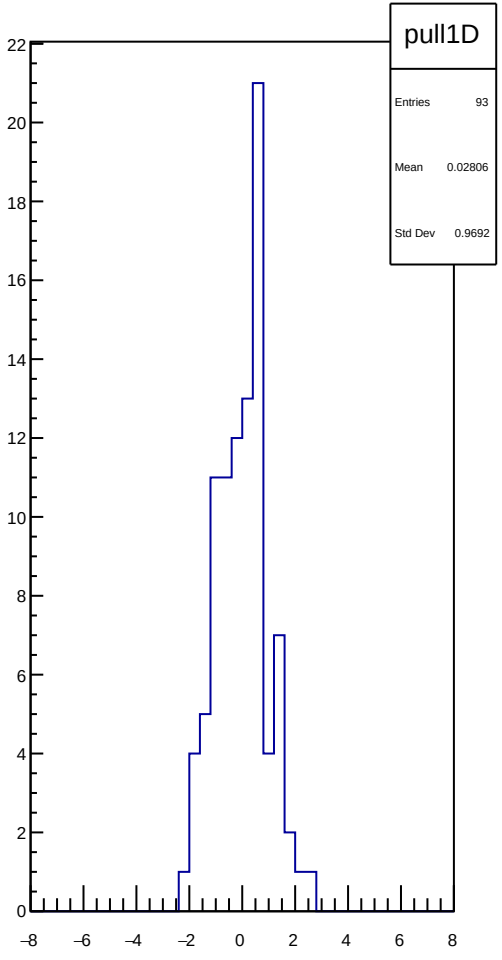

asym_sam_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.262e+05 / 92
p0 6.352e−10 ± 6.273e−13
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

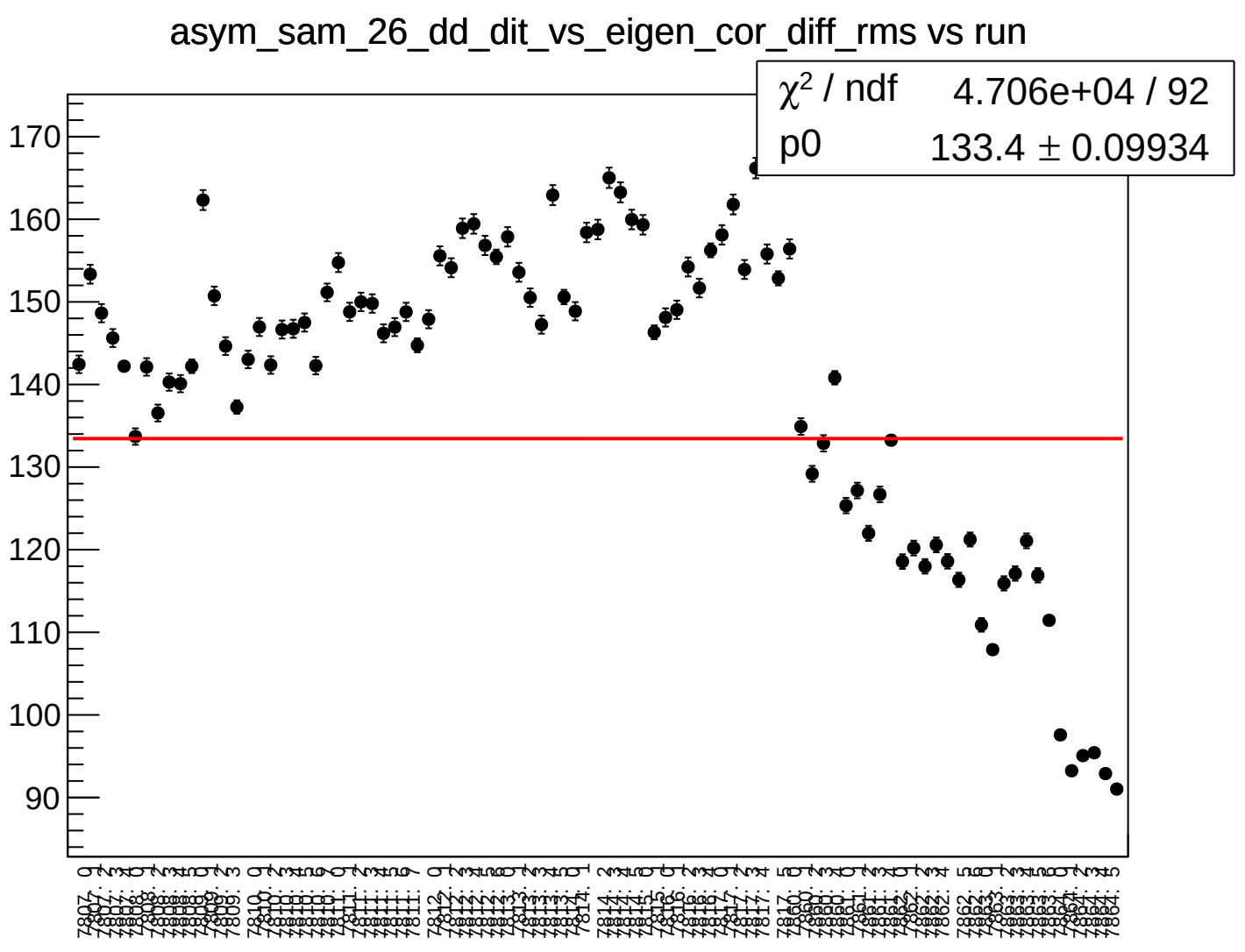

asym_sam_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 87.43 / 92
p0 −0.1173 ± 0.1405
pull
Entries 93
Mean −57.13
Std Dev 0

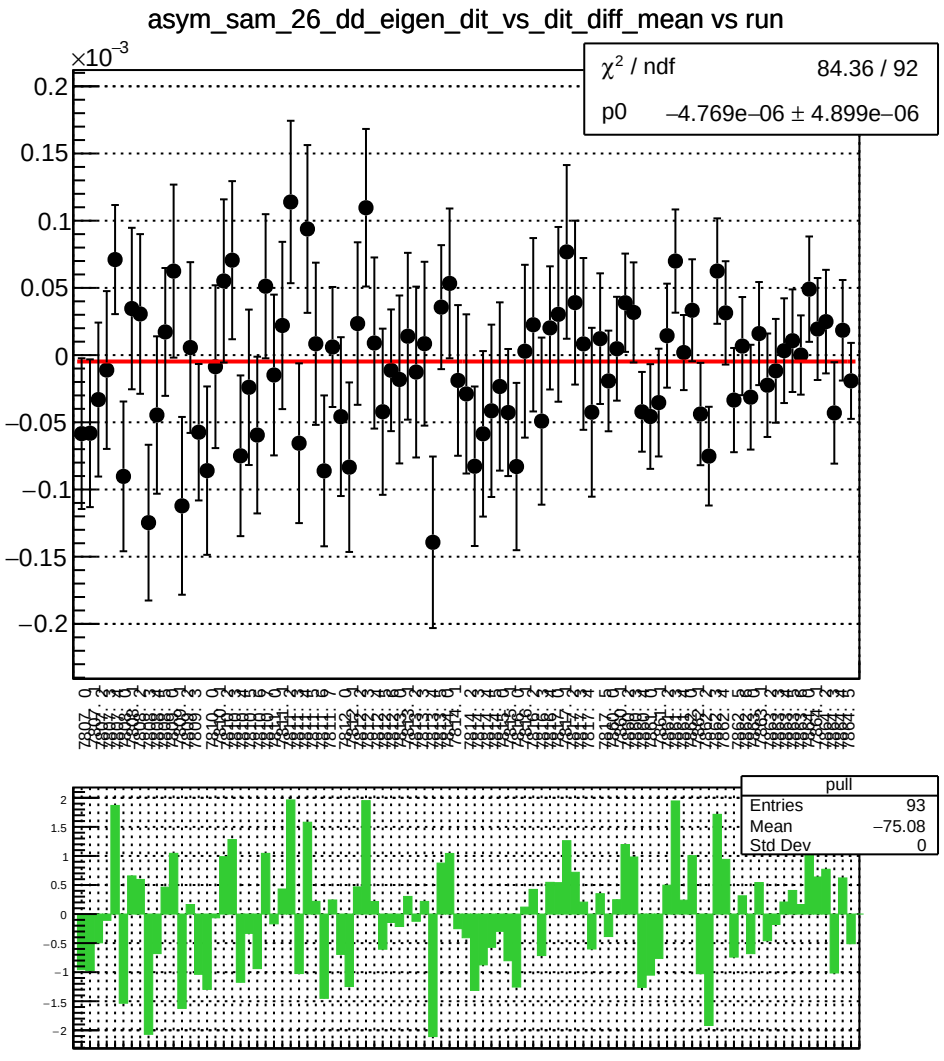

pull1D
Entries 93
Mean 0.02806
Std Dev 0.9692

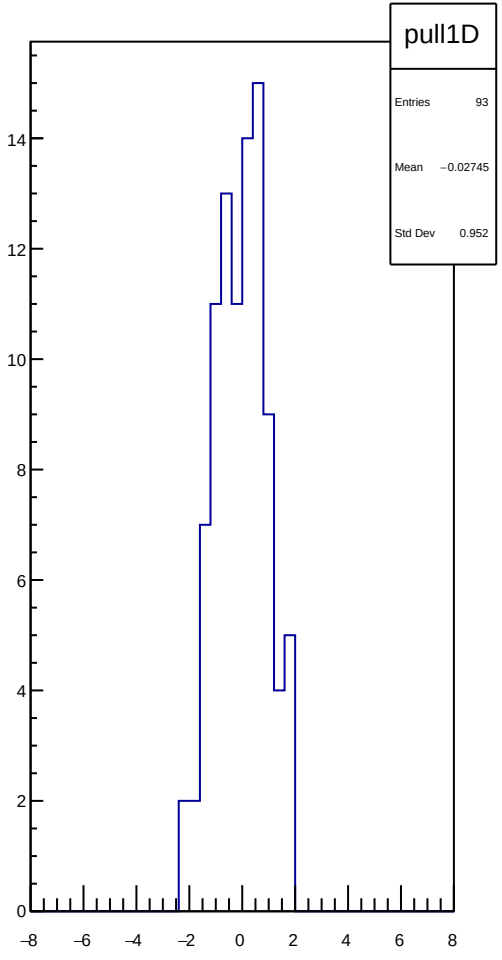

asym_sam_26_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 4.706e+04 / 92
p0 133.4 ± 0.09934
170
160
150
140
130
120
110
100
90

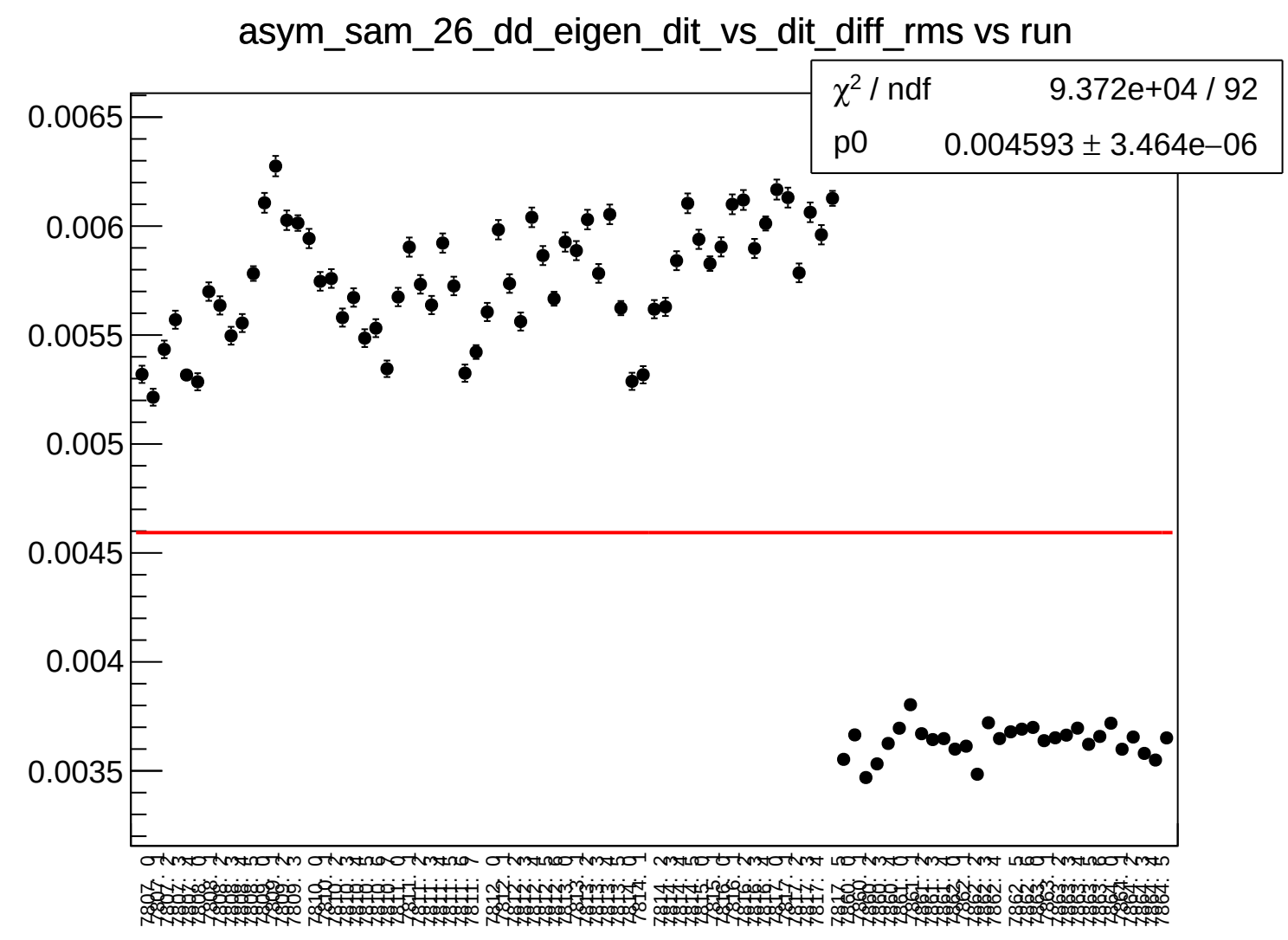

asym_sam_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.43 / 92
p0 −0.1173 ± 0.1405
pull
Entries 93
Mean −57.13
Std Dev 0

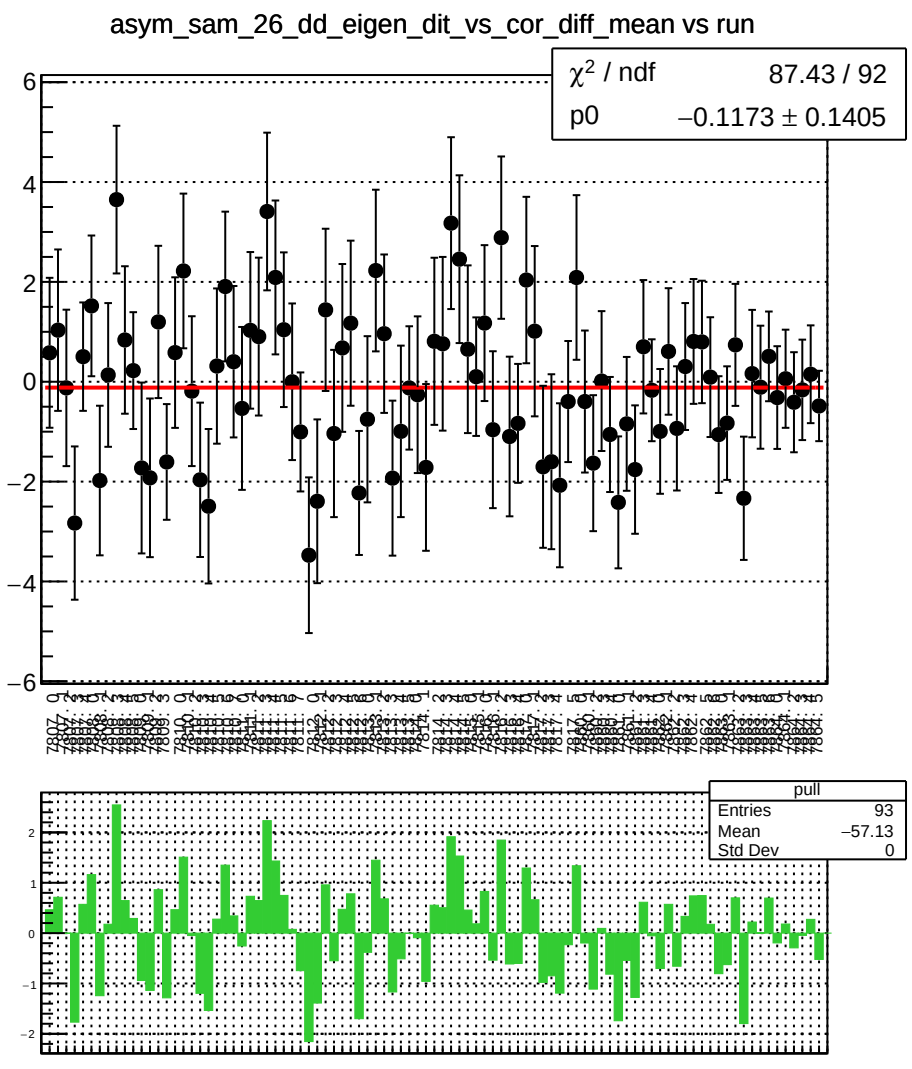

pull1D
Entries 93
Mean 0.02806
Std Dev 0.9692

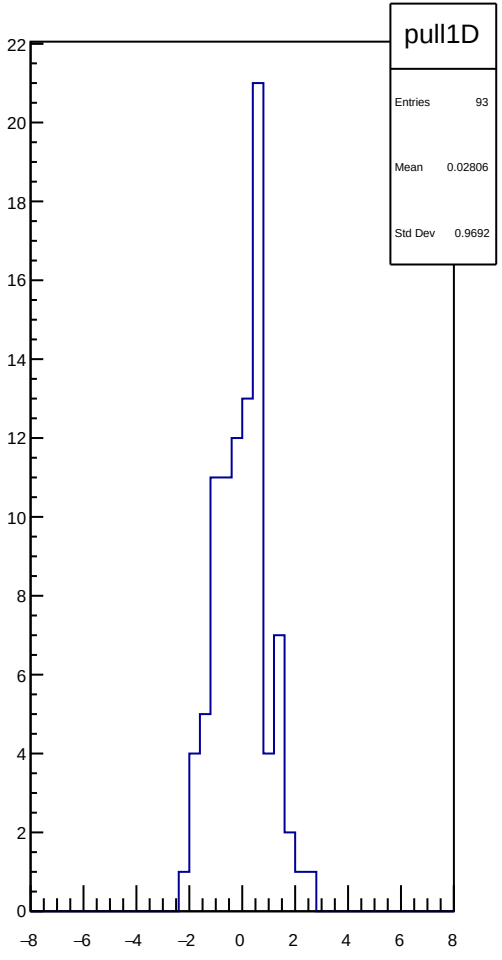

asym_sam_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.706e+04 / 92
p0 133.4 ± 0.09934
170
160
150
140
130
120
110
100
90

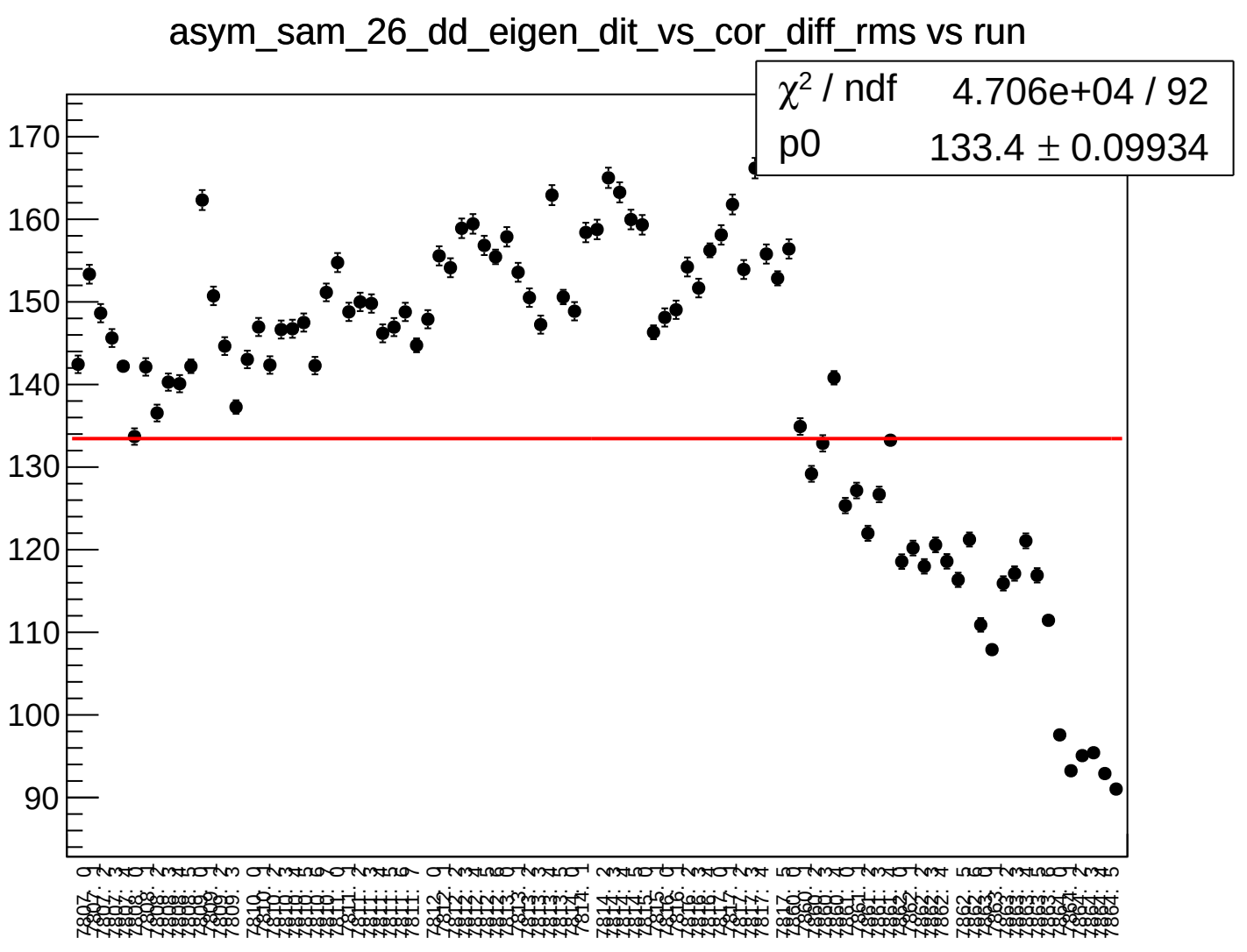

asym_sam_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 84.36 / 92
p0 −4.769e−06 ± 4.899e−06
pull
Entries 93
Mean −75.08
Std Dev 0

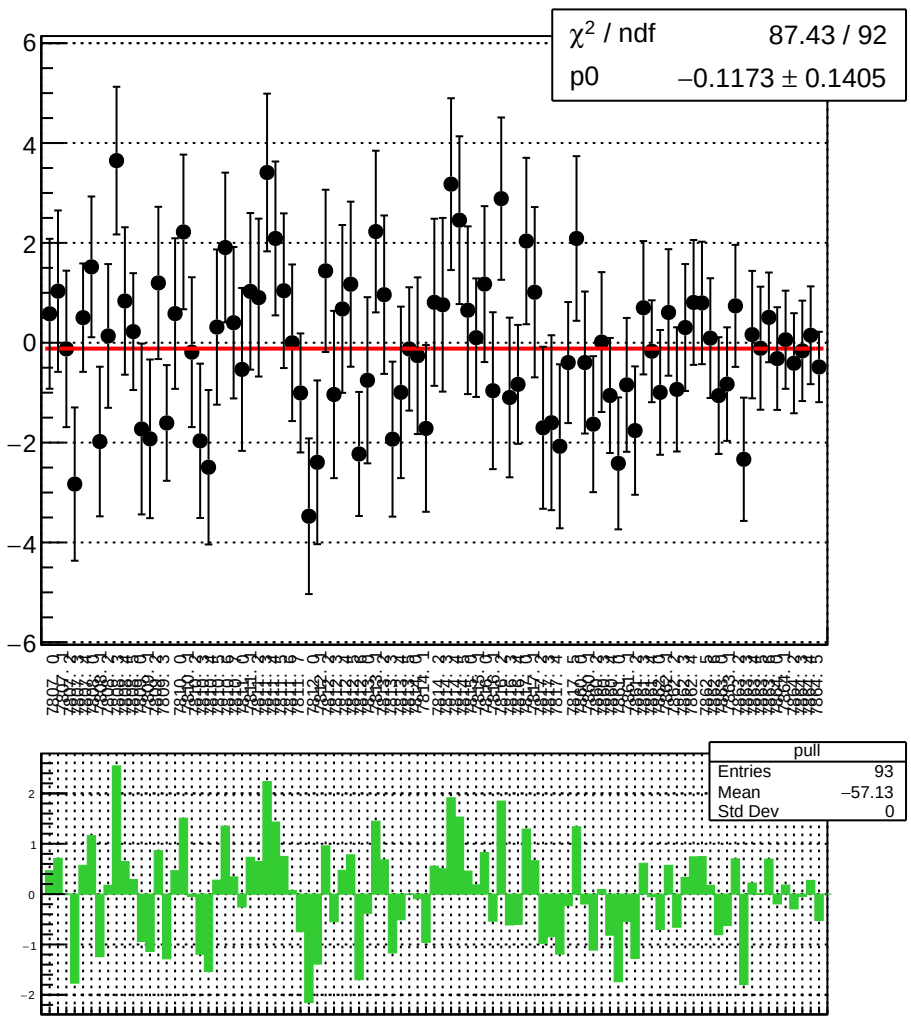

pull1D
Entries 93
Mean −0.02745
Std Dev 0.952

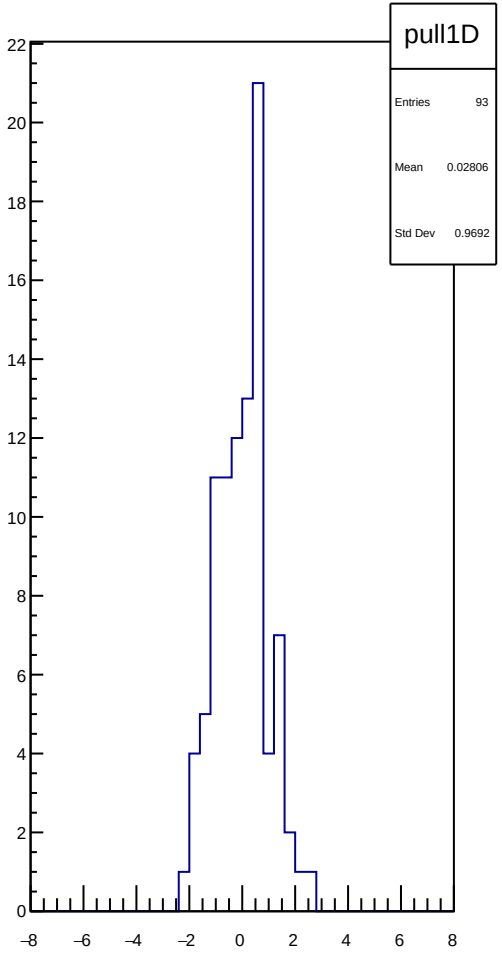

asym_sam_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.372e+04 / 92
p0 0.004593 ± 3.464e−06
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035

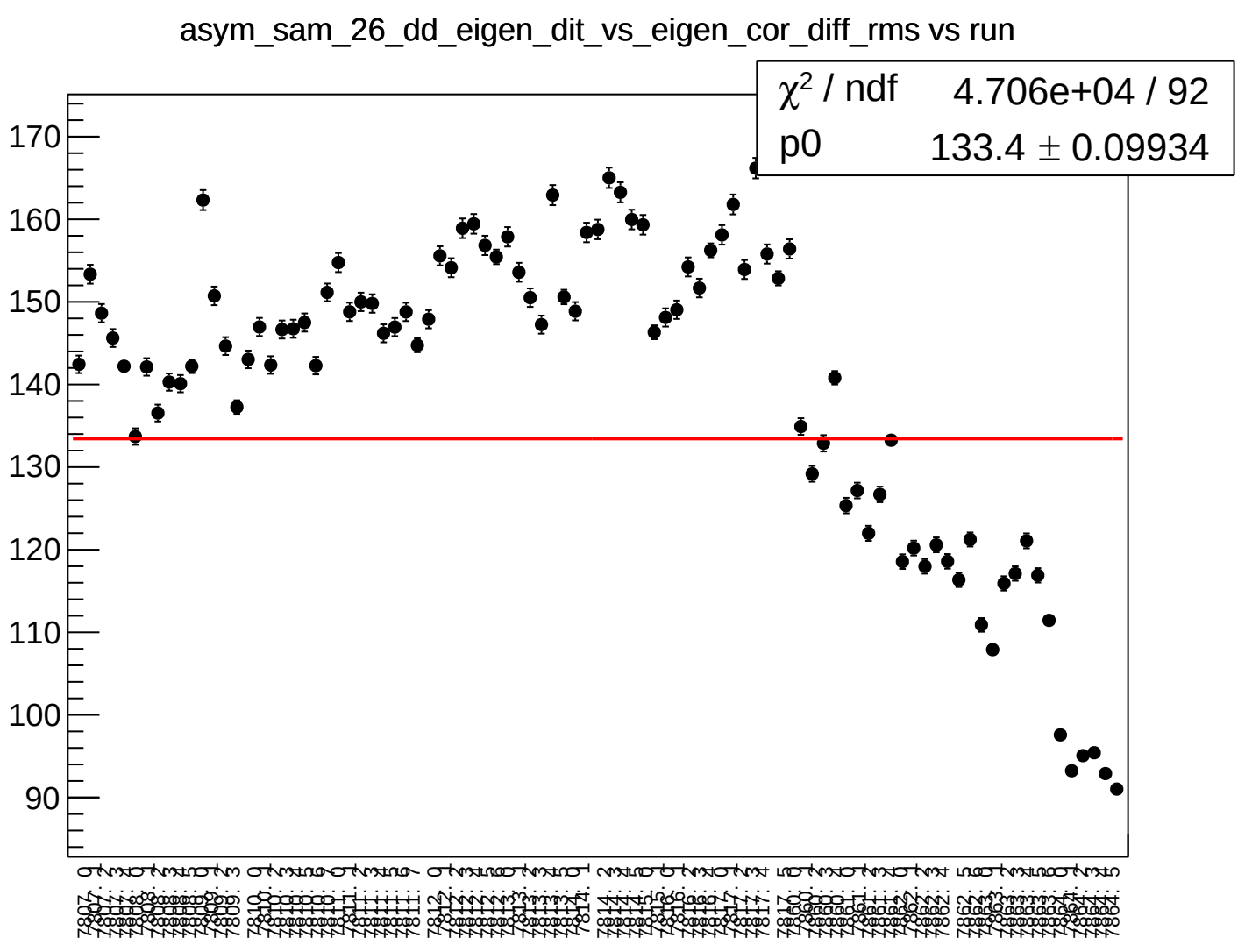

asym_sam_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.43 / 92
p0 −0.1173 ± 0.1405
pull
Entries 93
Mean −57.13
Std Dev 0

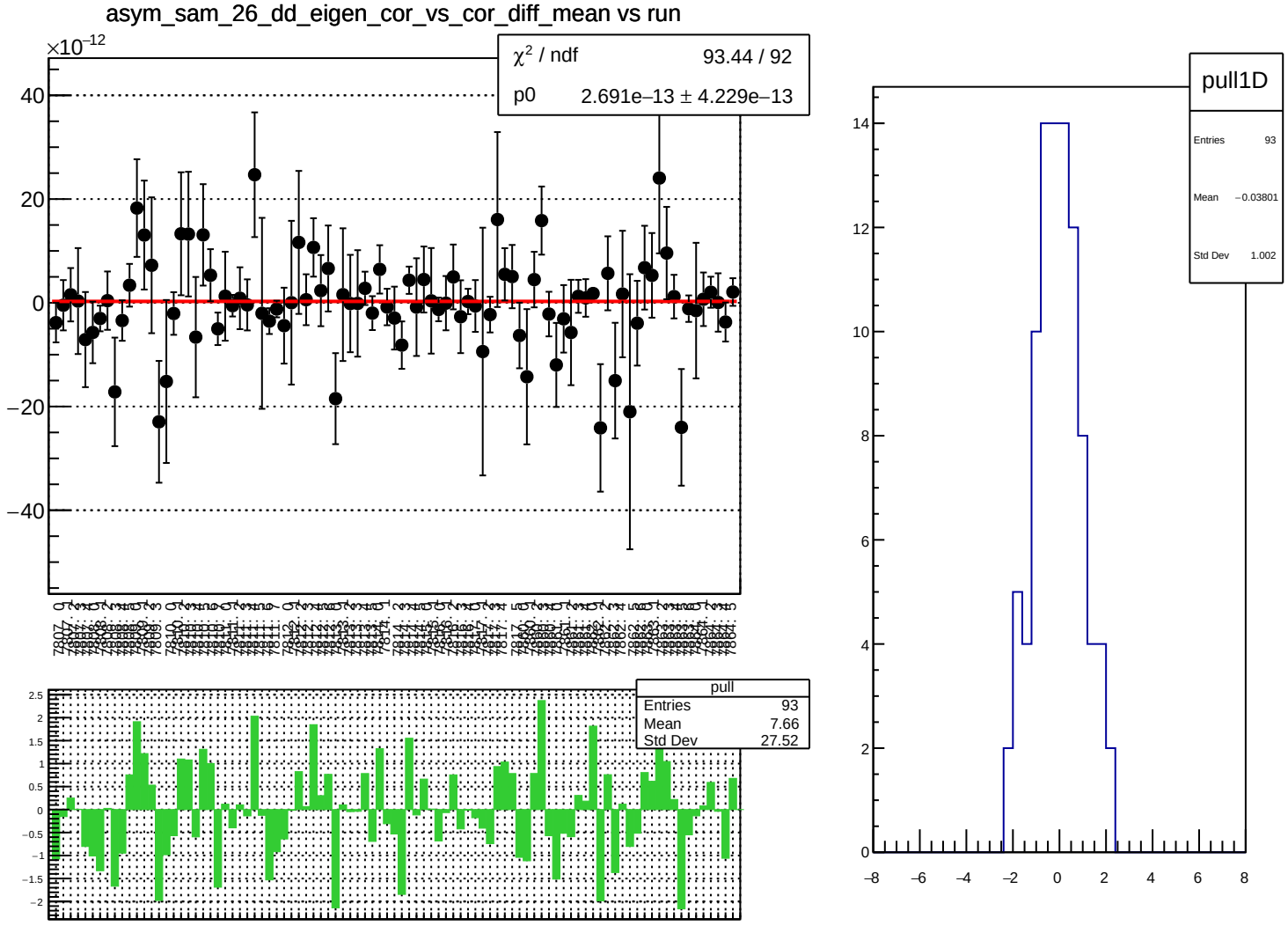

pull1D
Entries 93
Mean 0.02806
Std Dev 0.9692

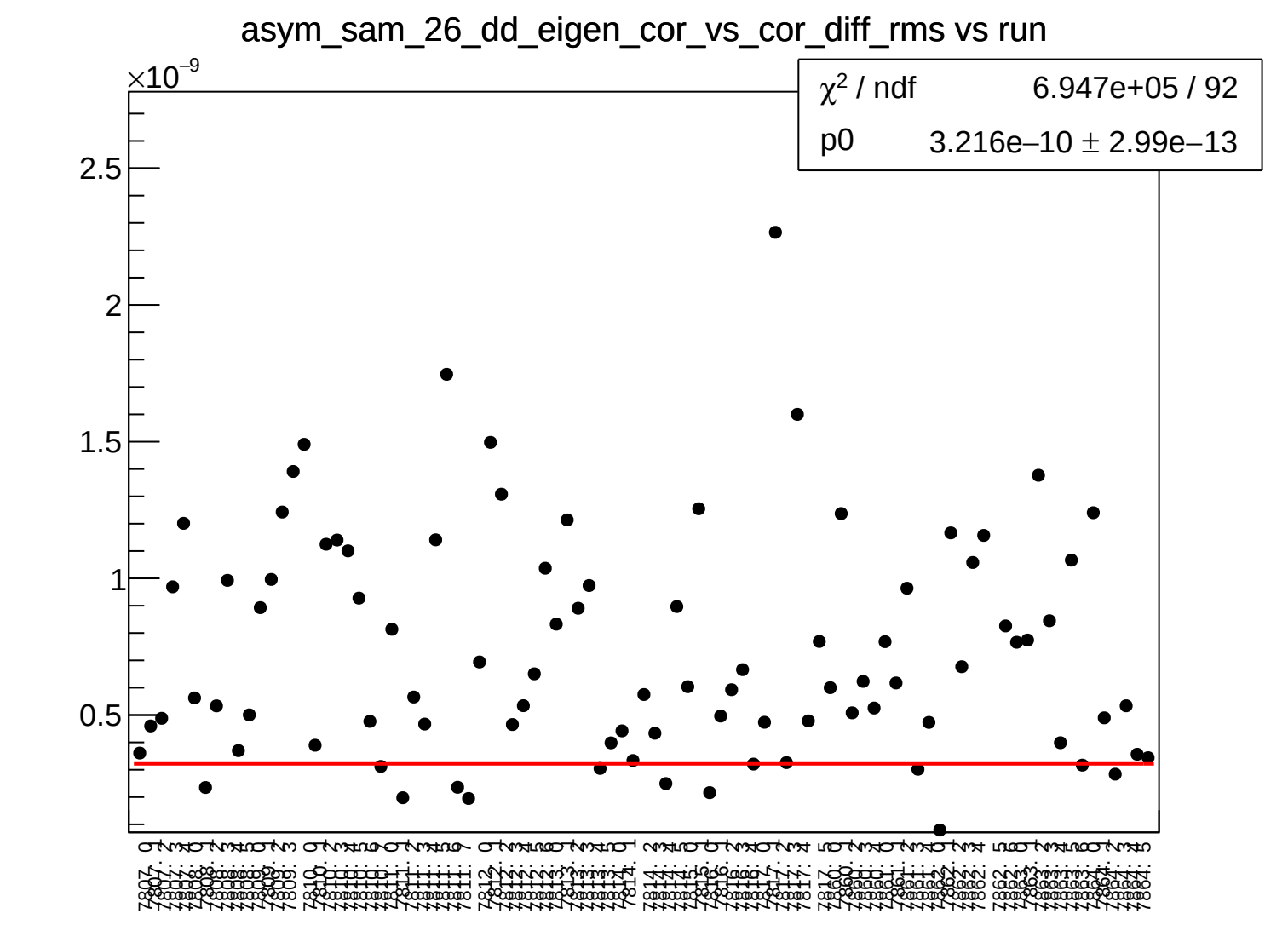

asym_sam_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 4.706e+04 / 92
p0 133.4 ± 0.09934
170
160
150
140
130
120
110
100
90

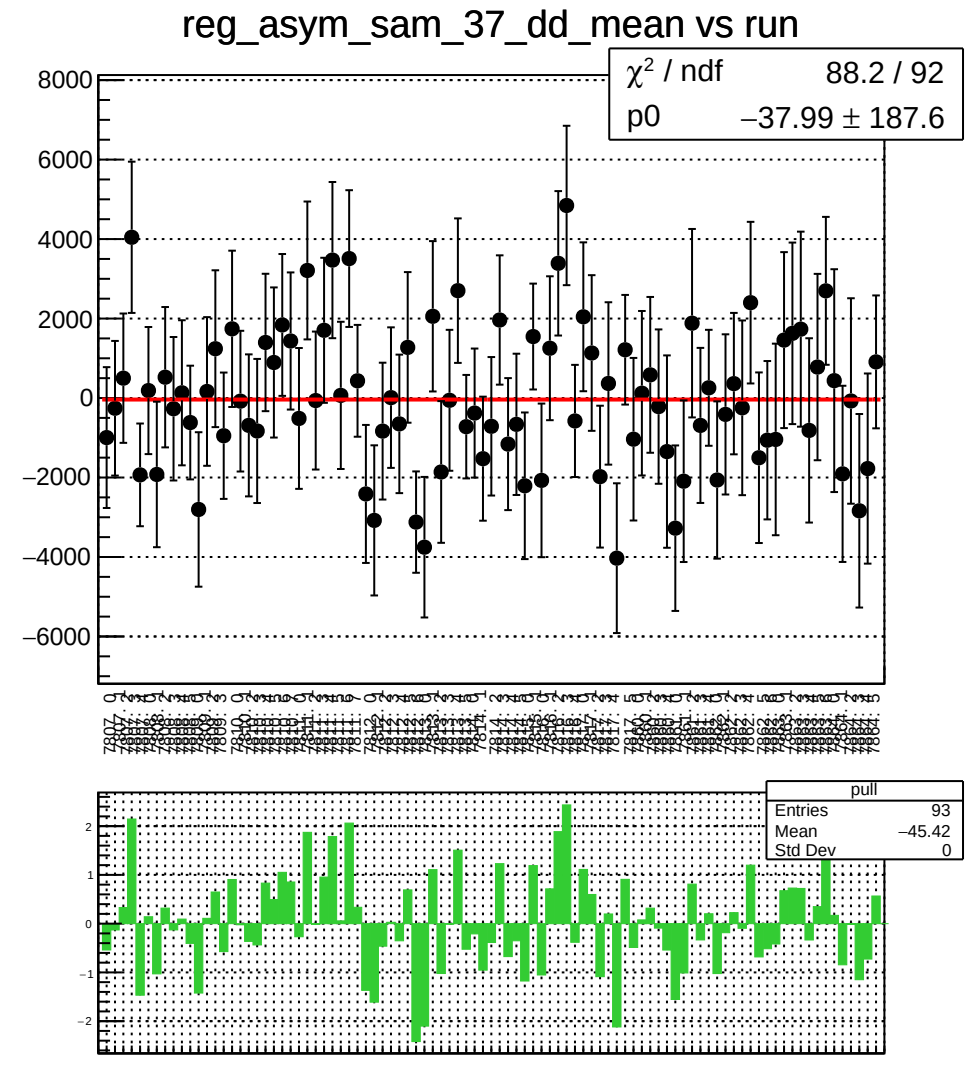

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.43 / 92
p0 −0.1173 ± 0.1405
pull
Entries 93
Mean −57.13
Std Dev 0

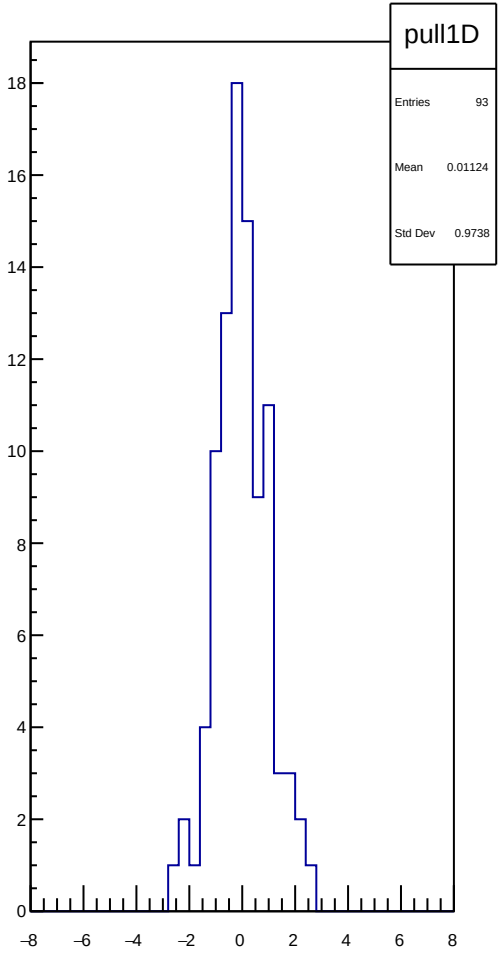

pull1D
Entries 93
Mean 0.02806
Std Dev 0.9692

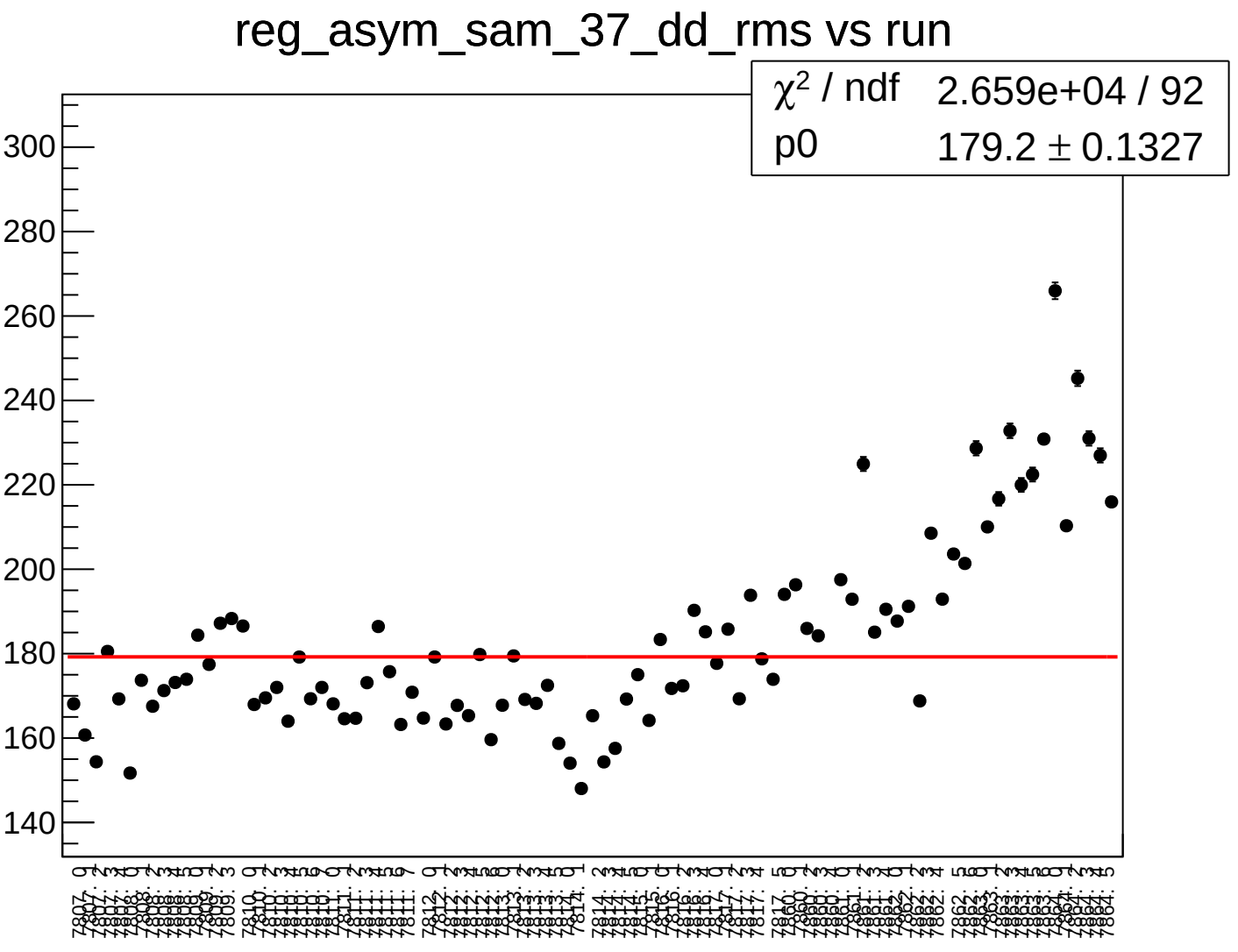

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.706e+04 / 92
p0 133.4 ± 0.09934
170
160
150
140
130
120
110
100
90

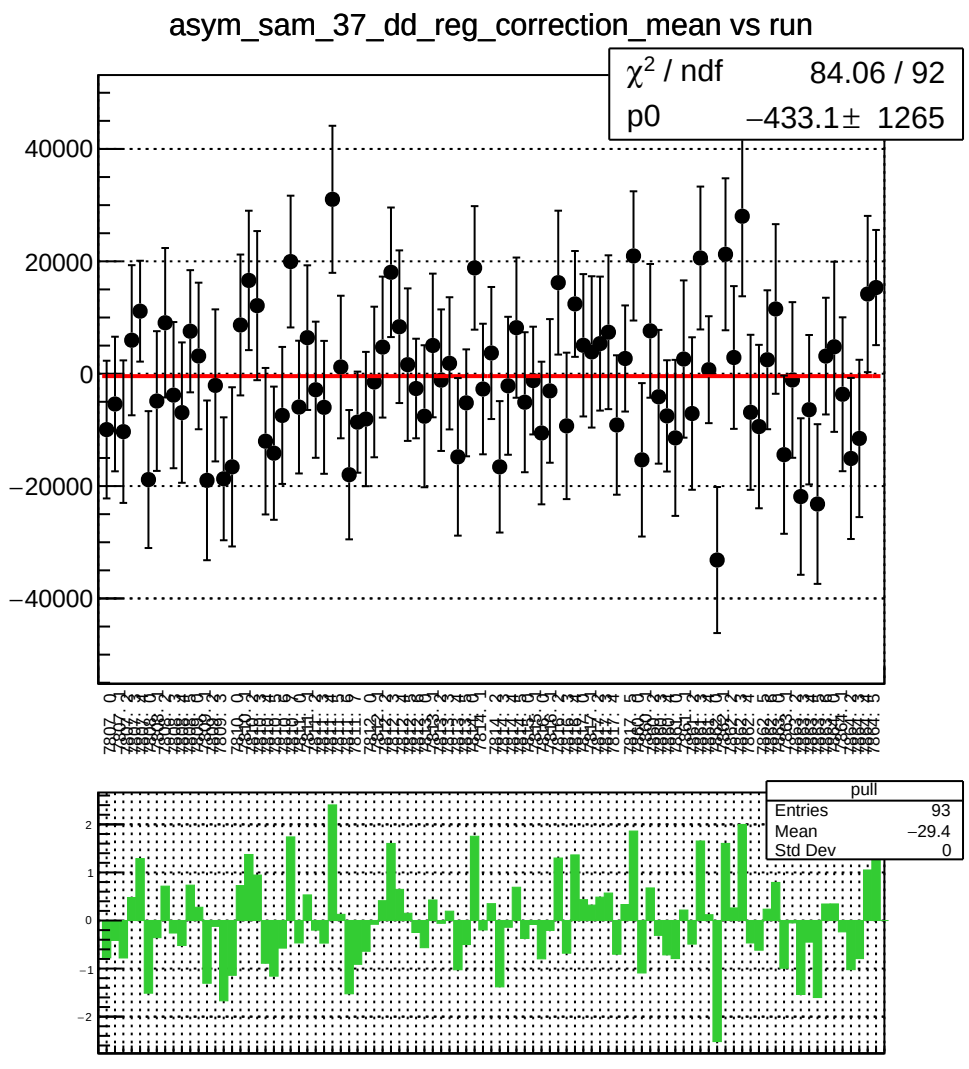

asym_sam_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 93.44 / 92
p0 2.691e−13 ± 4.229e−13
pull
Entries 93
Mean 7.66
Std Dev 27.52
pull1D
Entries 93
Mean −0.03801
Std Dev 1.002

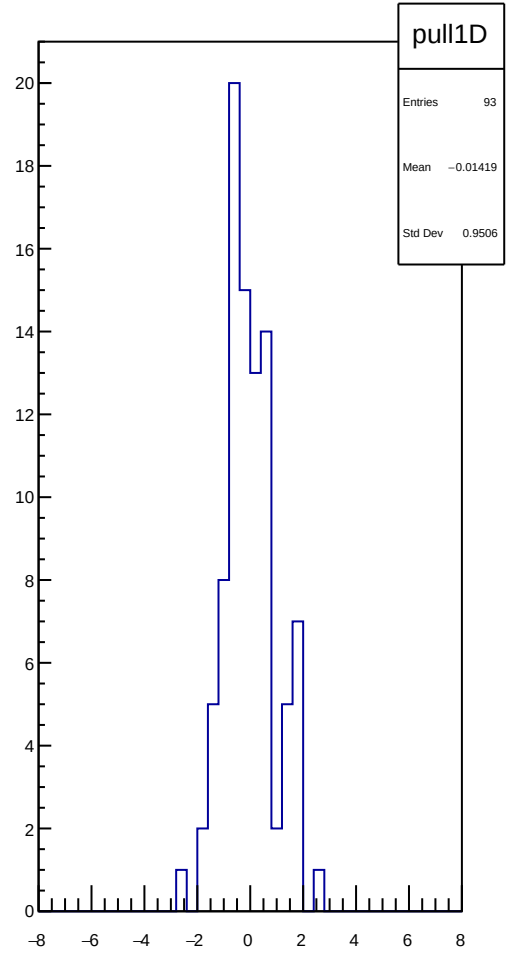

asym_sam_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.947e+05 / 92
p0 3.216e−10 ± 2.99e−13
2.5
2
1.5
1
0.5

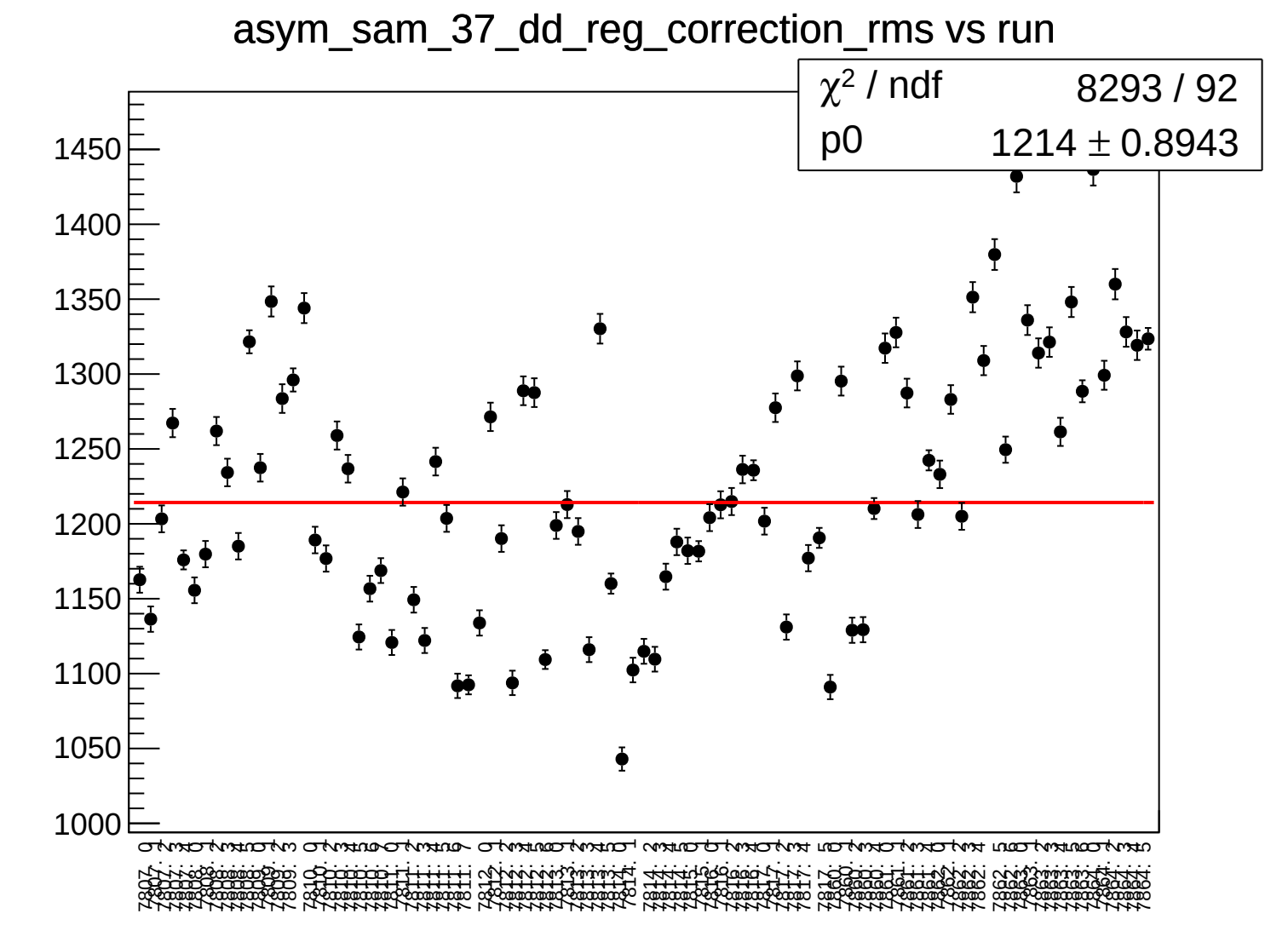

reg_asym_sam_37_dd_mean vs run
χ² / ndf 88.2 / 92
p0 −37.99 ± 187.6
pull
Entries 93
Mean −45.42
Std Dev 0

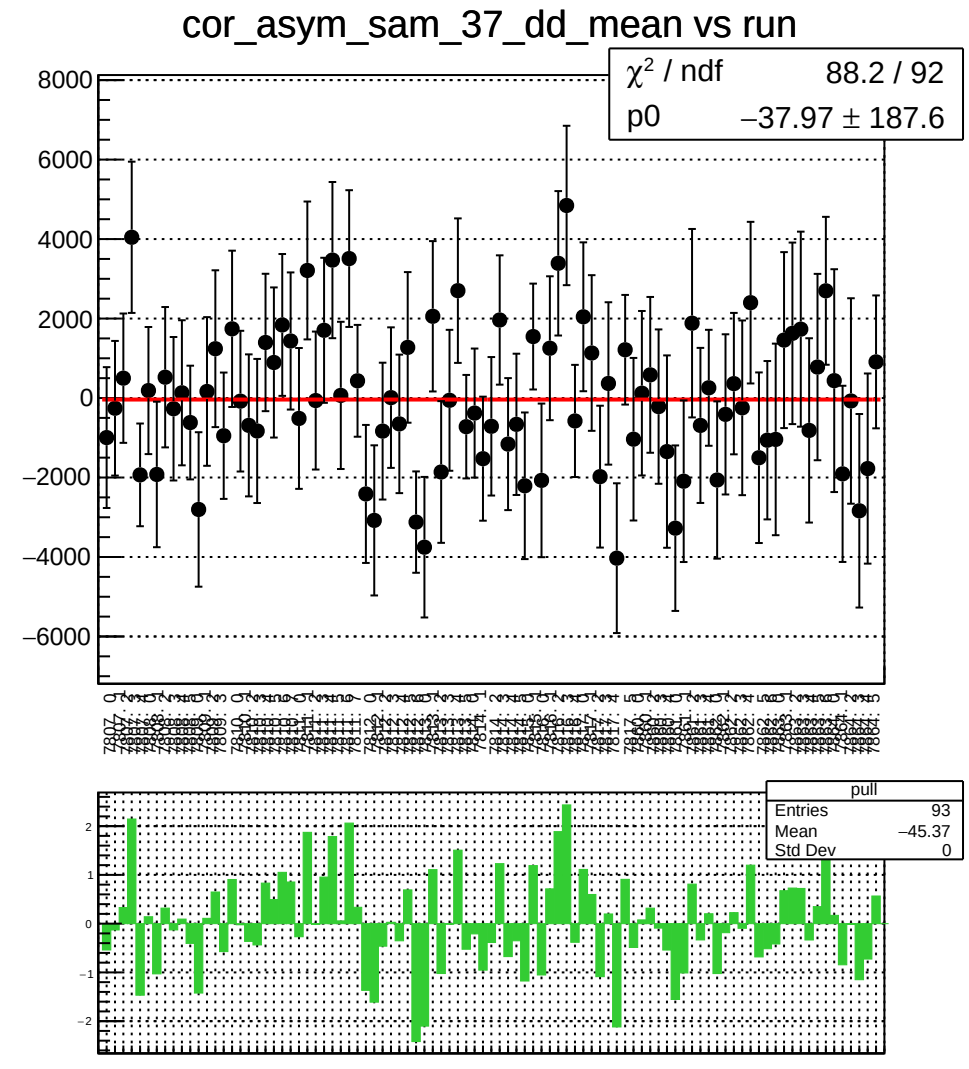

pull1D
Entries 93
Mean 0.01124
Std Dev 0.9738

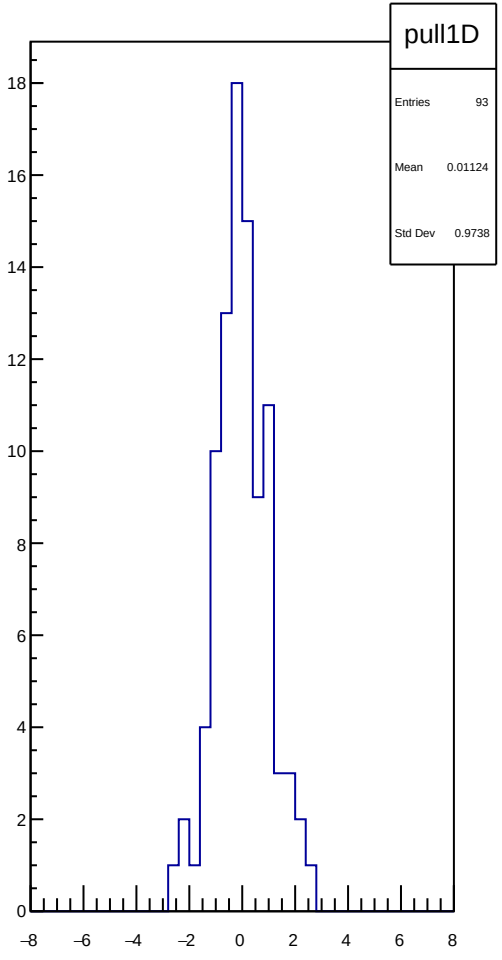

reg_asym_sam_37_dd_rms vs run
χ² / ndf 2.659e+04 / 92
p0 179.2 ± 0.1327
300
280
260
240
220
200
180
160
140

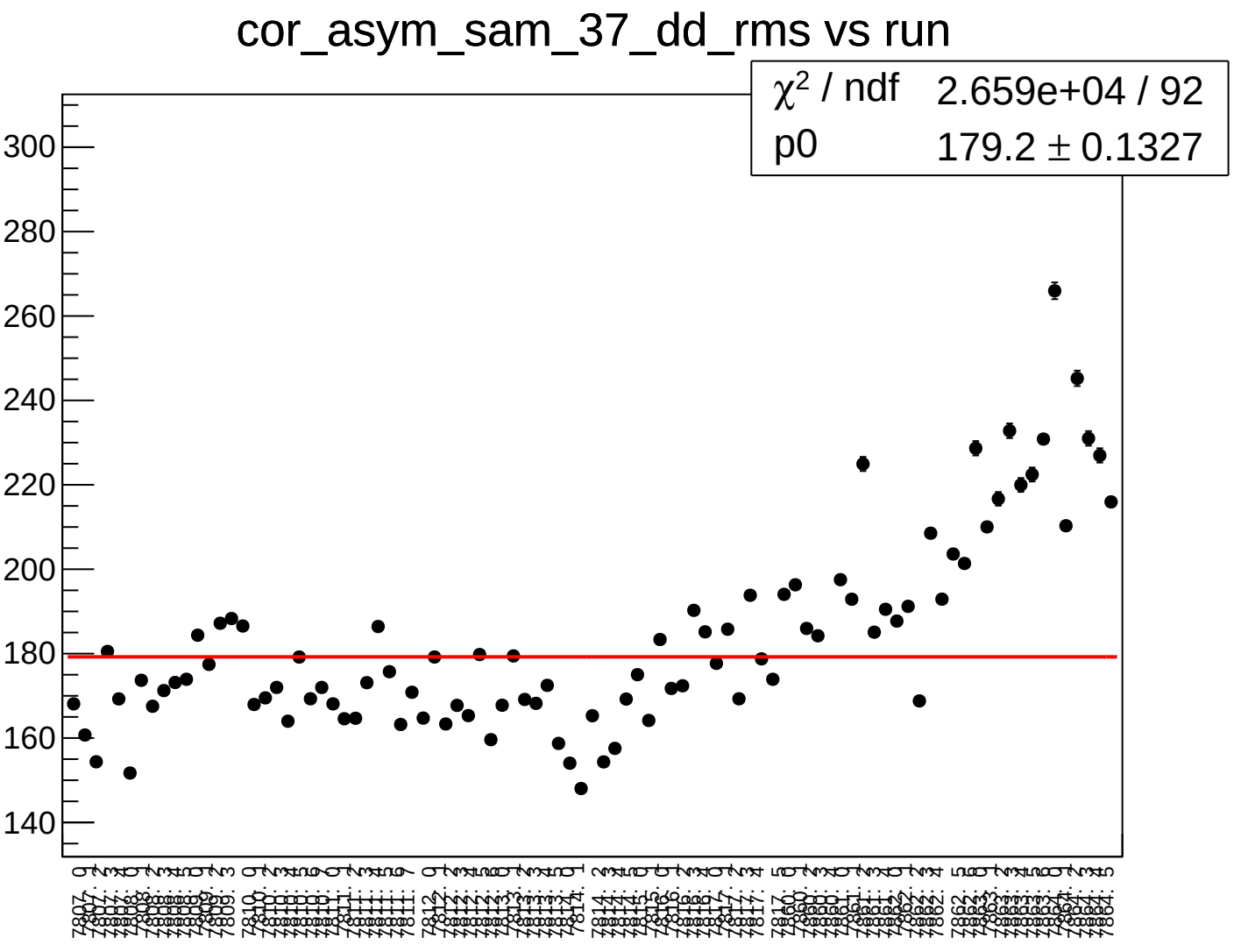

asym_sam_37_dd_reg_correction_mean vs run
χ² / ndf 84.06 / 92
p0 −433.1± 1265
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −29.4
Std Dev 0
2
1
0
−1
−2

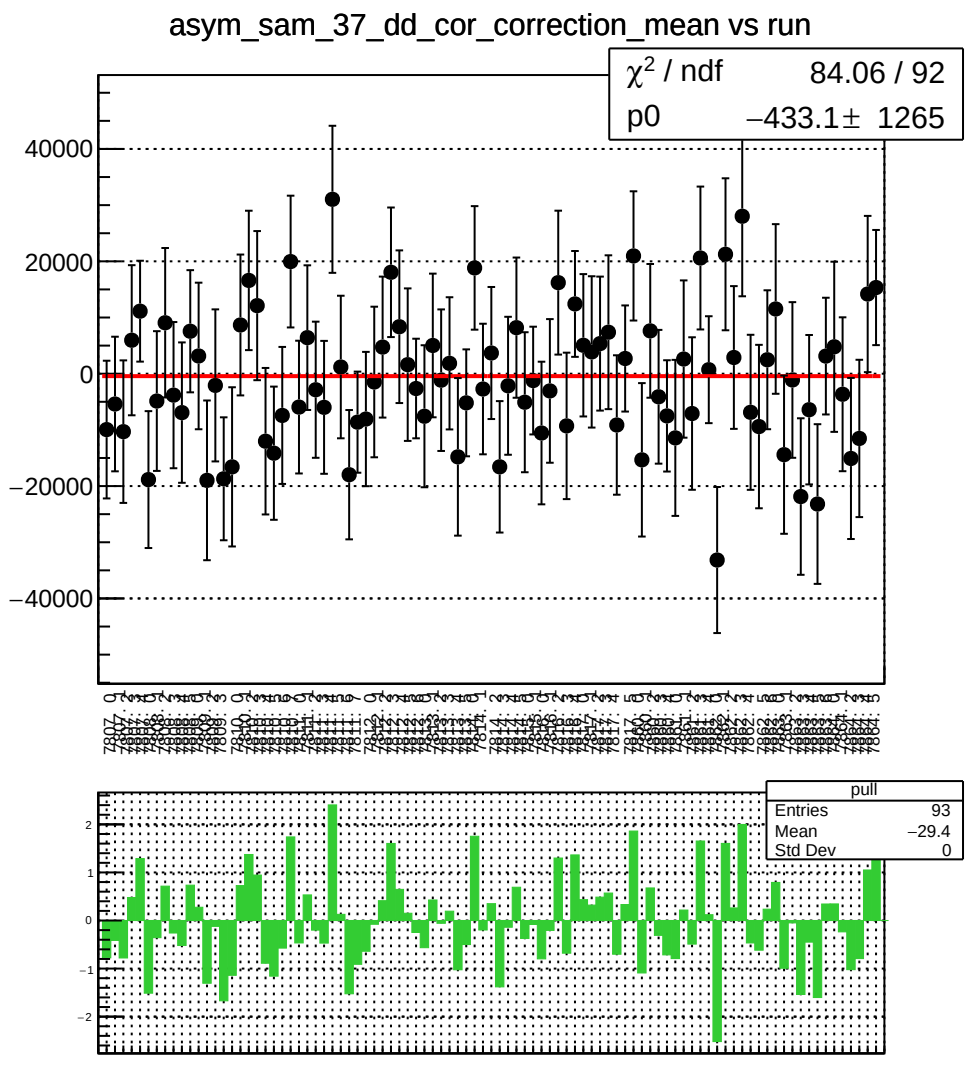

pull1D
Entries 93
Mean −0.01419
Std Dev 0.9506
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

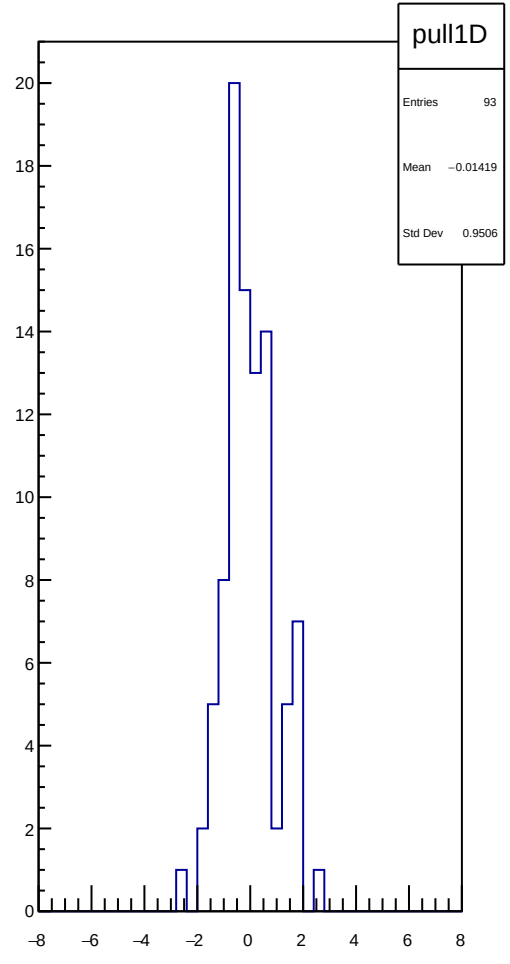

asym_sam_37_dd_reg_correction_rms vs run
χ² / ndf 8293 / 92
p0 1214 ± 0.8943
1450
1400
1350
1300
1250
1200
1150
1100
1050
1000

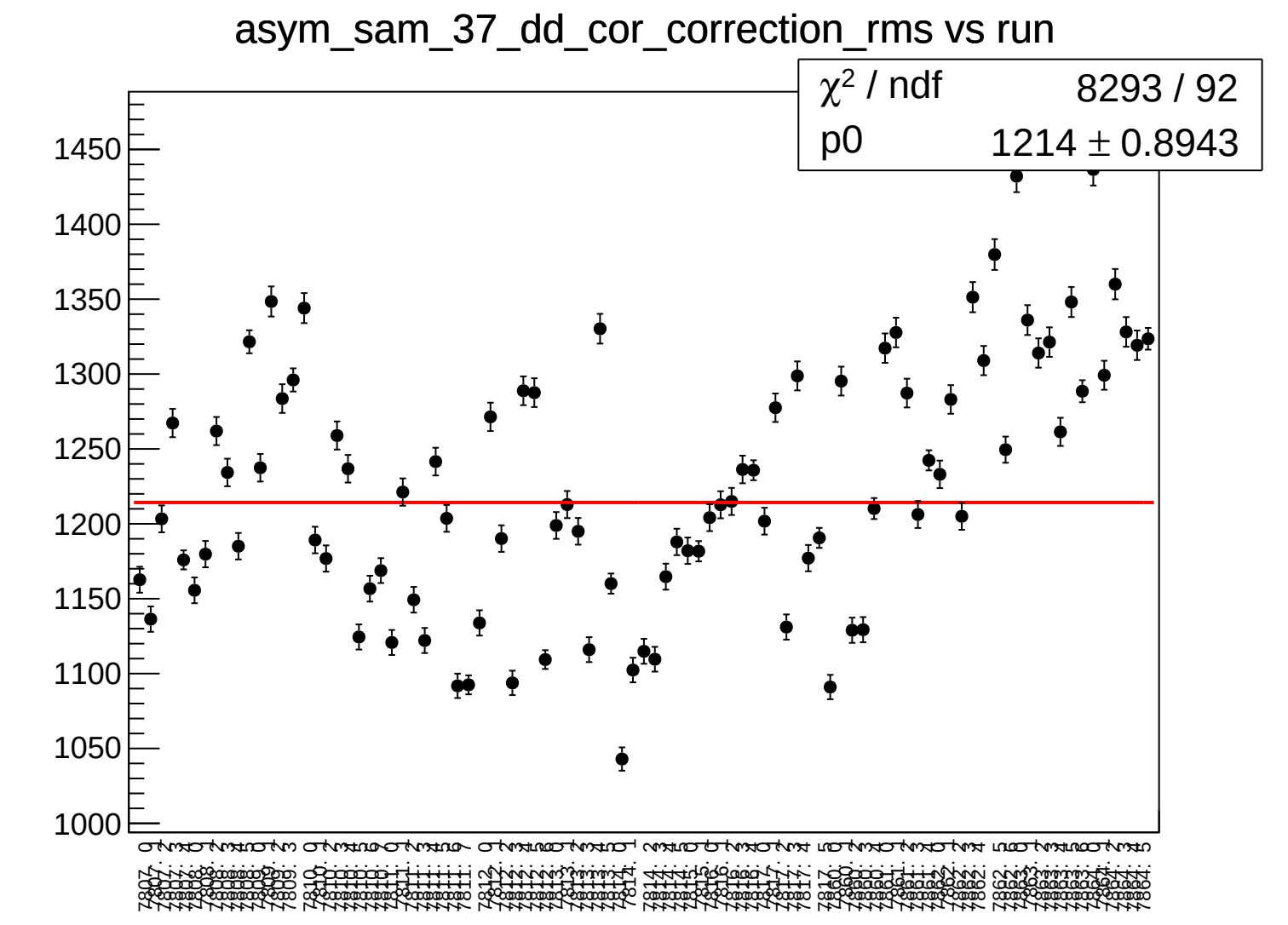

cor_asym_sam_37_dd_mean vs run
χ² / ndf 88.2 / 92
p0 −37.97 ± 187.6
pull
Entries 93
Mean −45.37
Std Dev 0

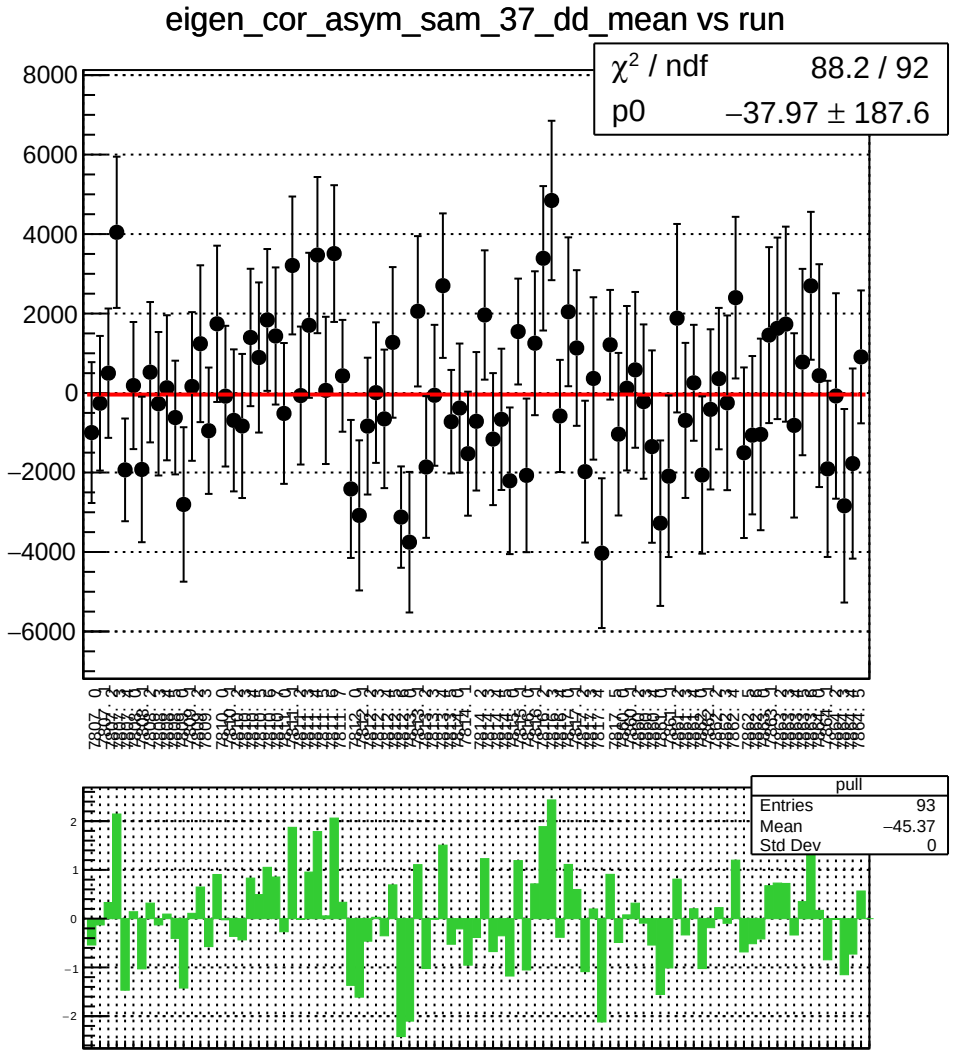

pull1D
Entries 93
Mean 0.01124
Std Dev 0.9738

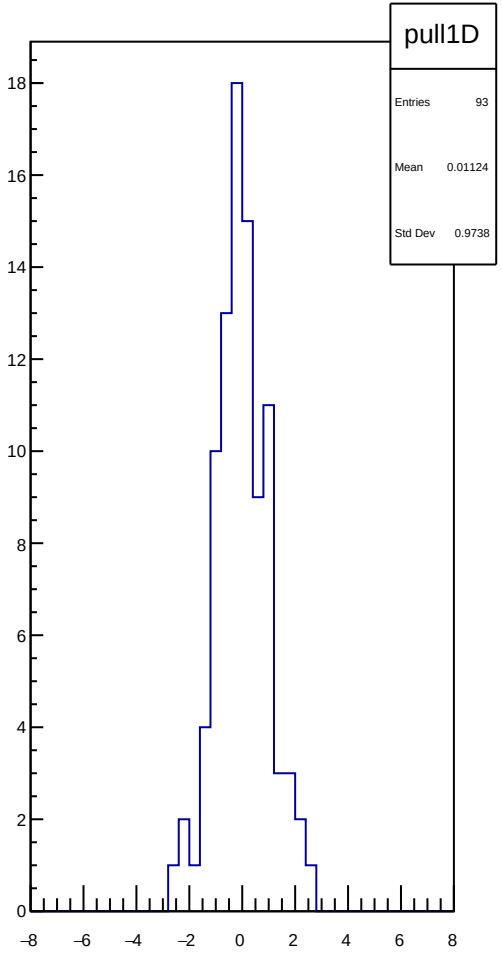

cor_asym_sam_37_dd_rms vs run
χ² / ndf 2.659e+04 / 92
p0 179.2 ± 0.1327
300
280
260
240
220
200
180
160
140

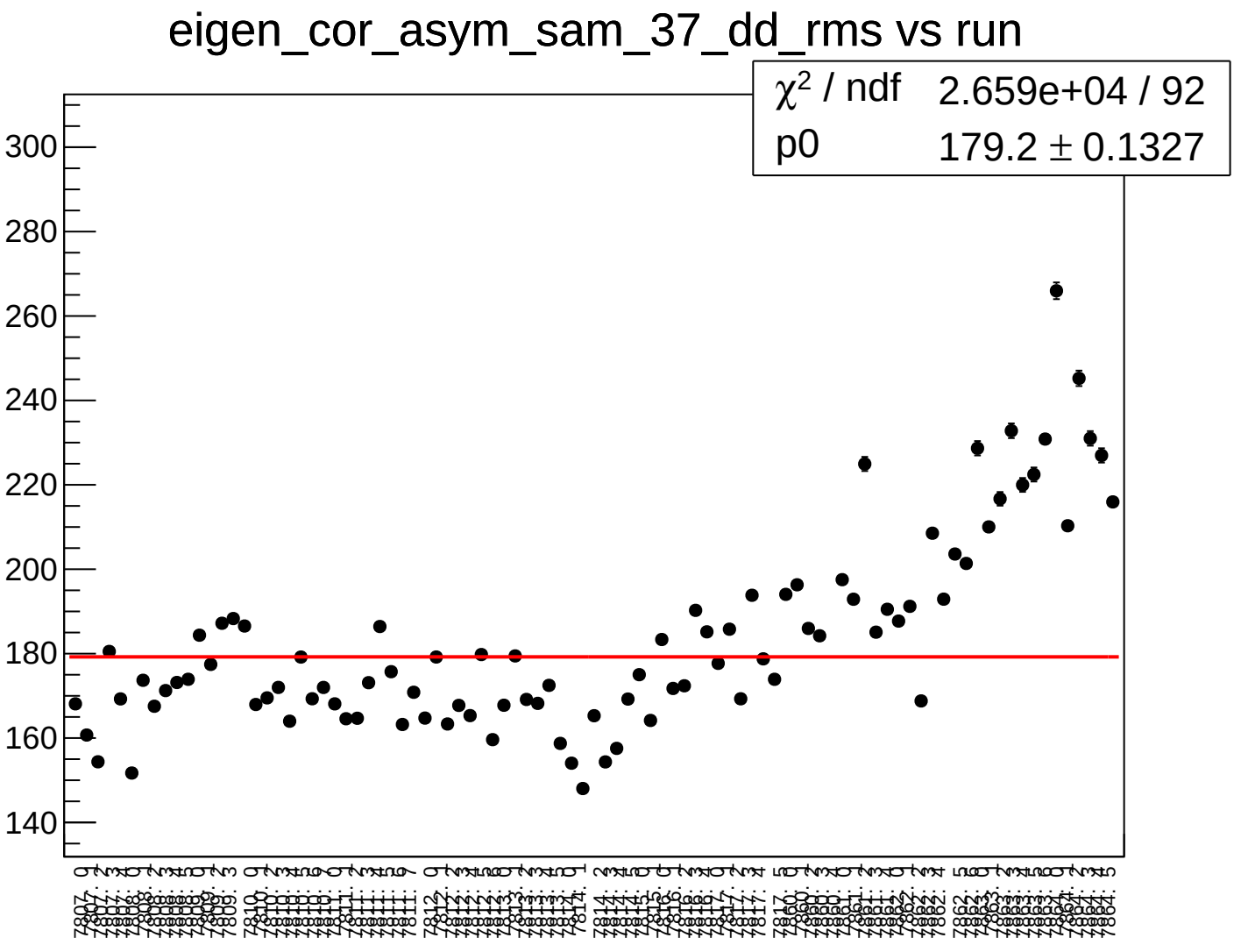

asym_sam_37_dd_cor_correction_mean vs run
χ² / ndf 84.06 / 92
p0 −433.1± 1265
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −29.4
Std Dev 0
2
1
0
−1
−2

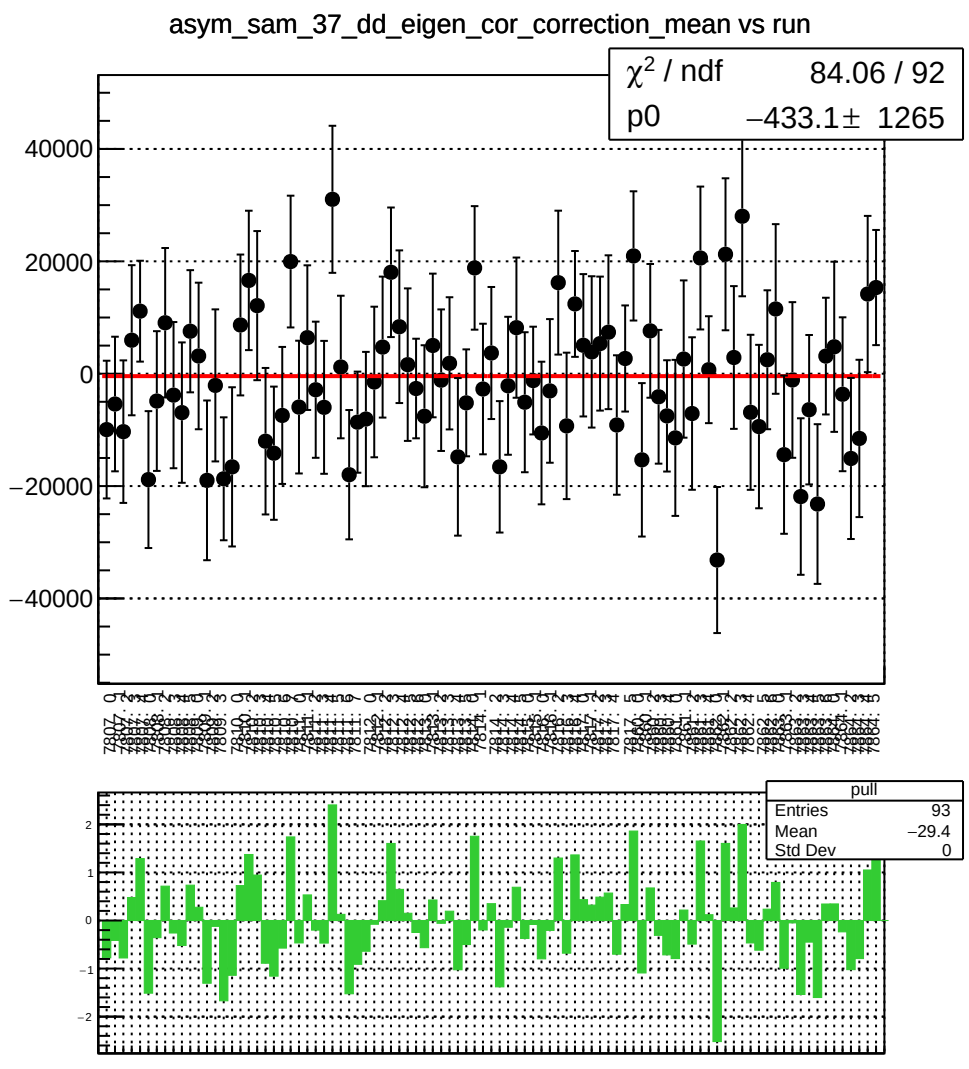

pull1D
Entries 93
Mean −0.01419
Std Dev 0.9506
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

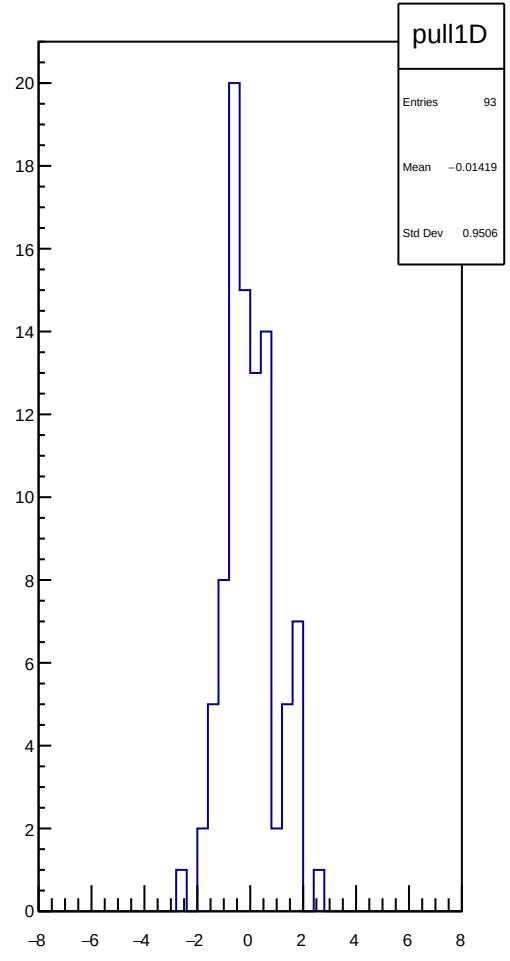

asym_sam_37_dd_cor_correction_rms vs run
χ² / ndf 8293 / 92
p0 1214 ± 0.8943
1450
1400
1350
1300
1250
1200
1150
1100
1050
1000

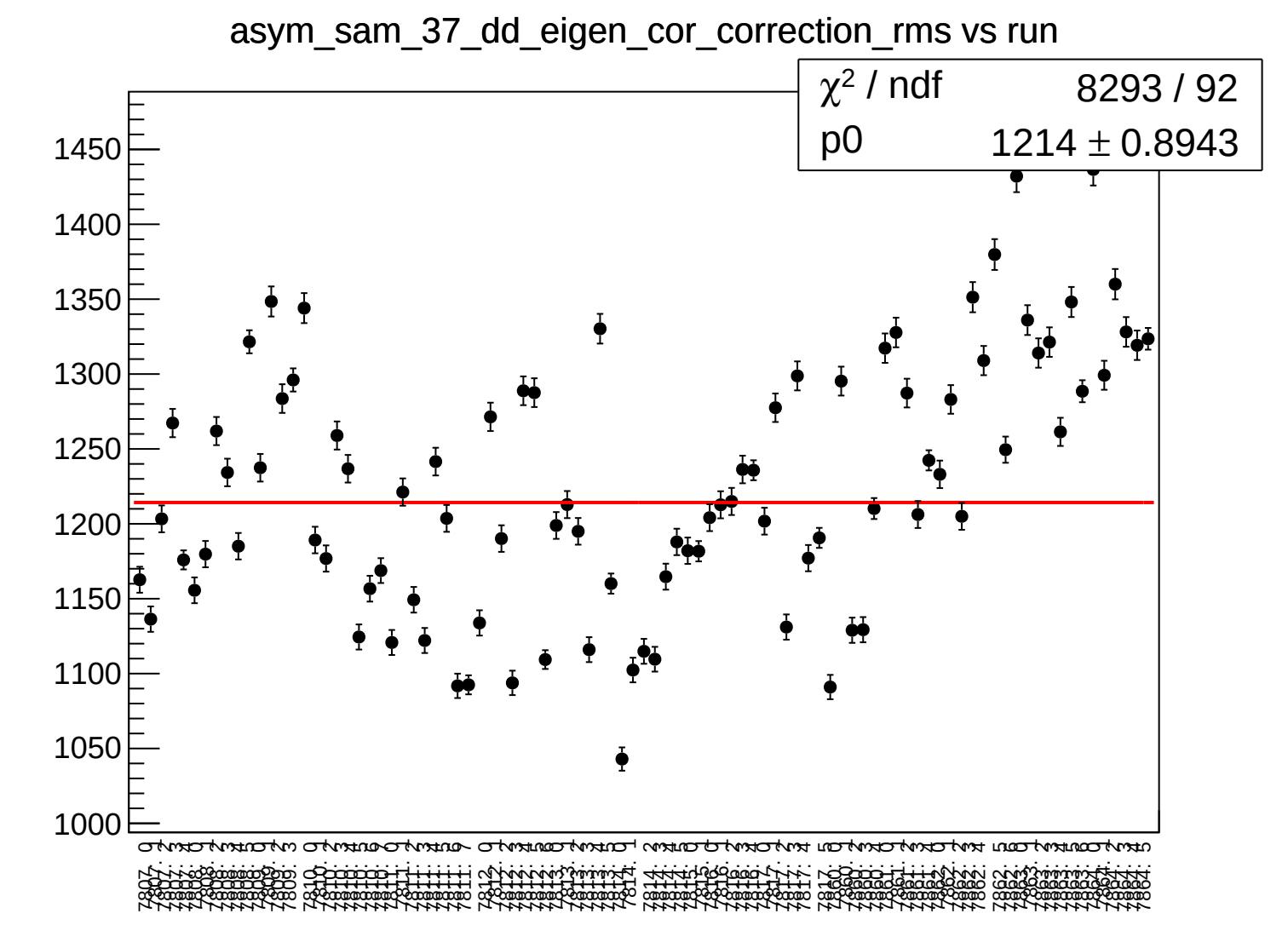

eigen_cor_asym_sam_37_dd_mean vs run
χ² / ndf 88.2 / 92
p0 −37.97 ± 187.6
pull
Entries 93
Mean −45.37
Std Dev 0

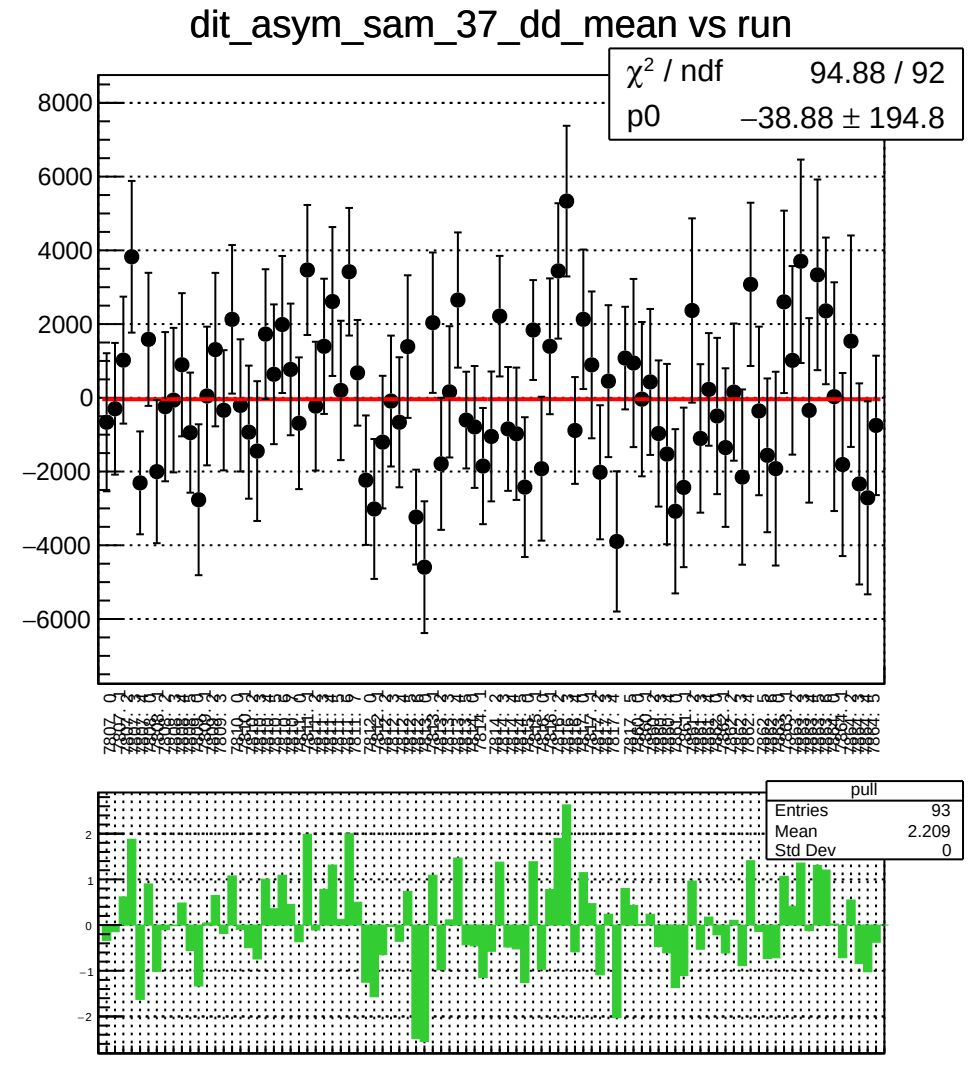

pull1D
Entries 93
Mean 0.01124
Std Dev 0.9738

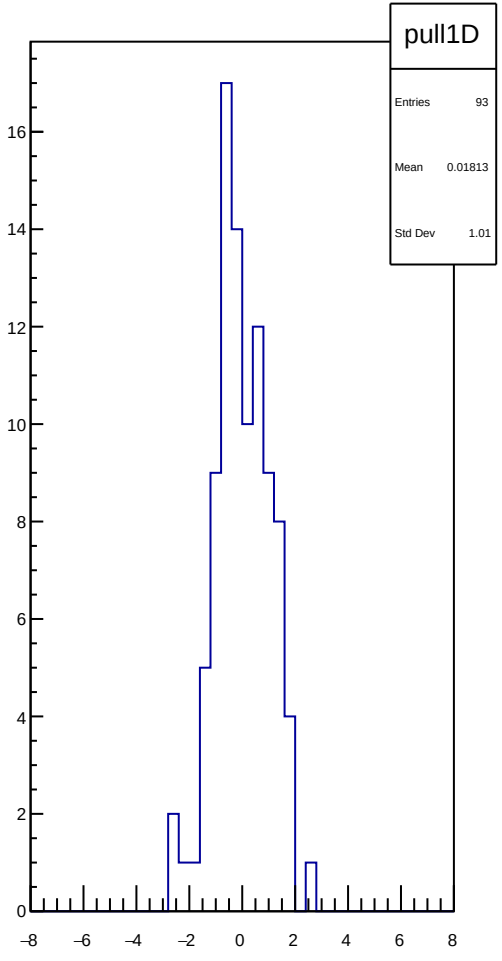

eigen_cor_asym_sam_37_dd_rms vs run
χ² / ndf 2.659e+04 / 92
p0 179.2 ± 0.1327
300
280
260
240
220
200
180
160
140

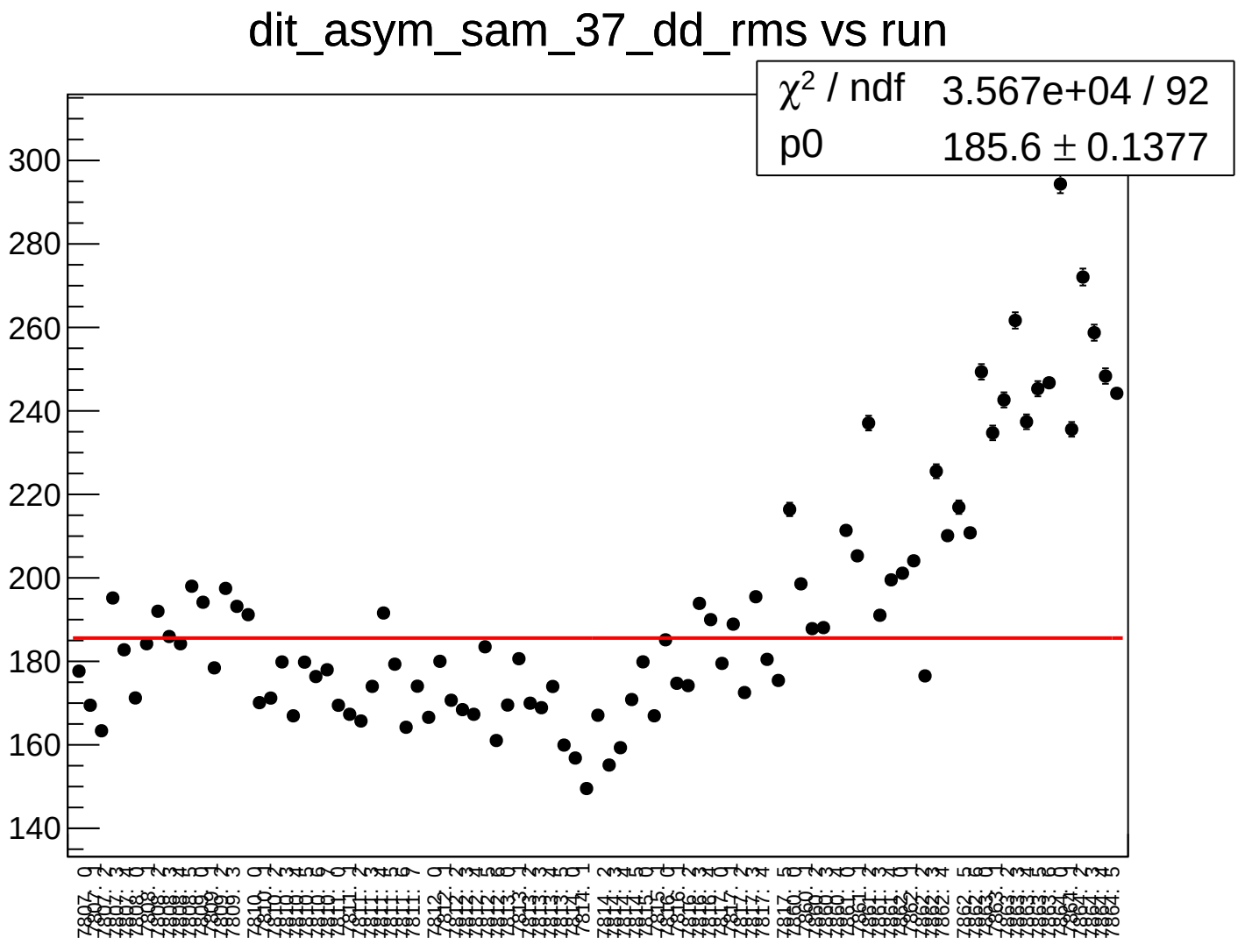

asym_sam_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 84.06 / 92
p0 −433.1± 1265
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −29.4
Std Dev 0
2
1
0
−1
−2

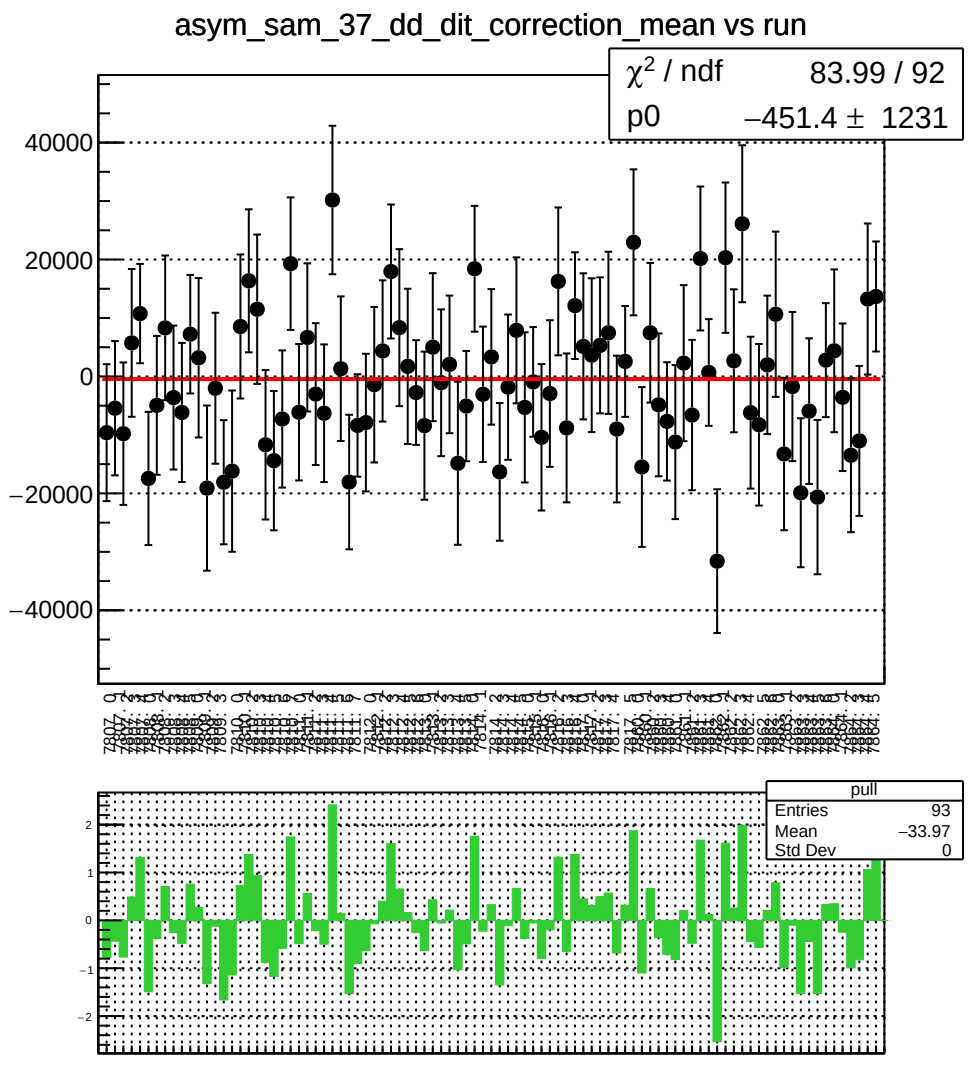

pull1D
Entries 93
Mean −0.01419
Std Dev 0.9506
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

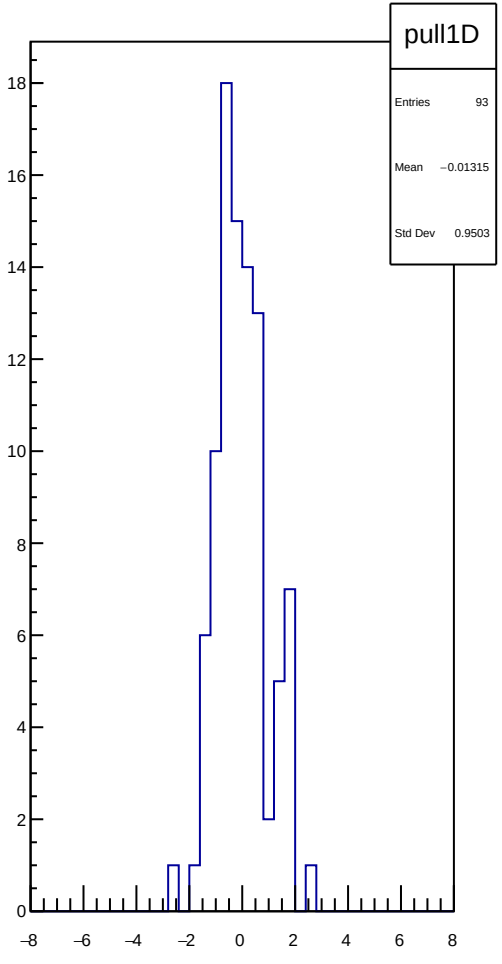

asym_sam_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 8293 / 92
p0 1214 ± 0.8943
1450
1400
1350
1300
1250
1200
1150
1100
1050
1000

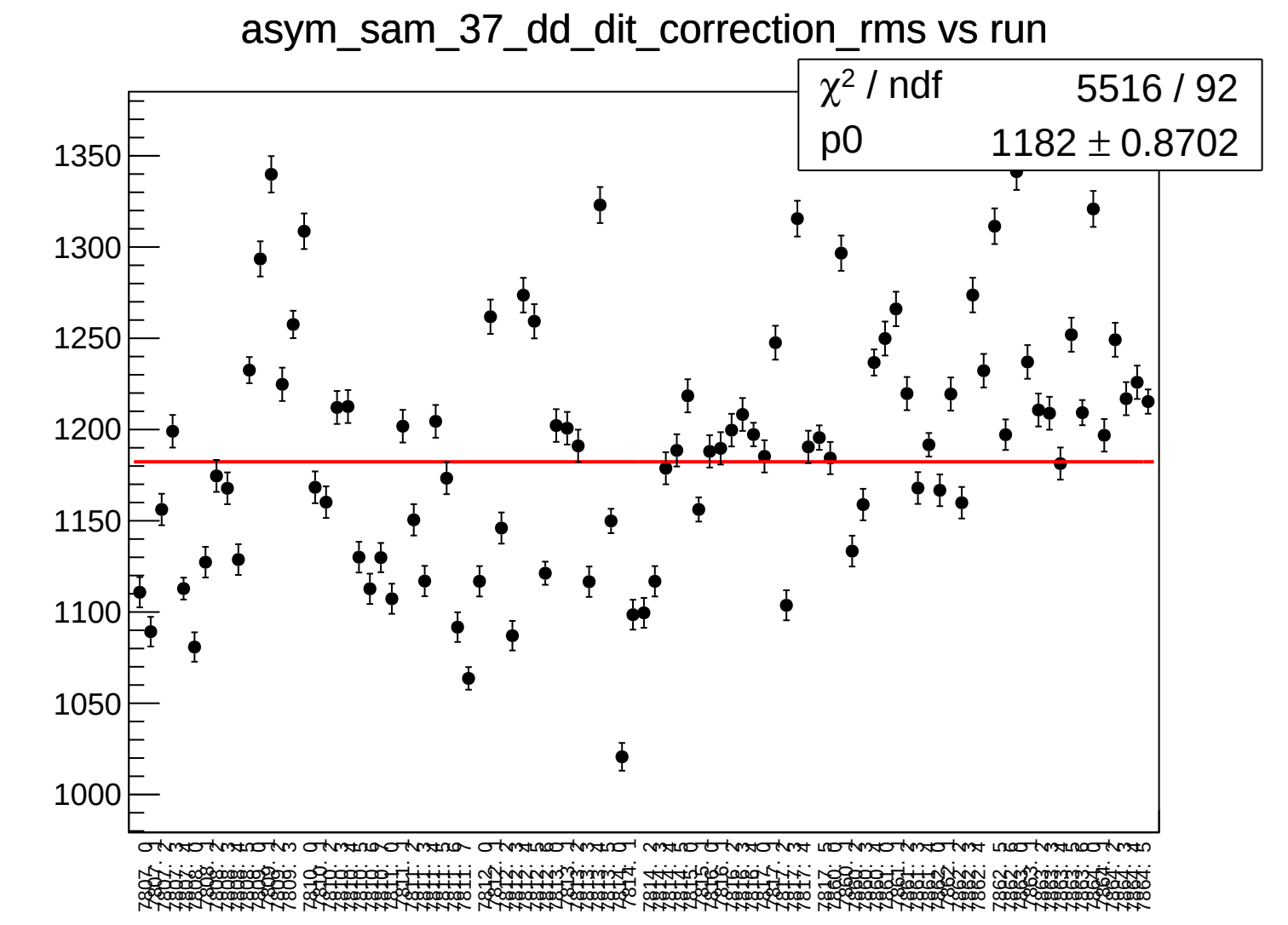

dit_asym_sam_37_dd_mean vs run
χ² / ndf 94.88 / 92
p0 −38.88 ± 194.8
pull
Entries 93
Mean 2.209
Std Dev 0

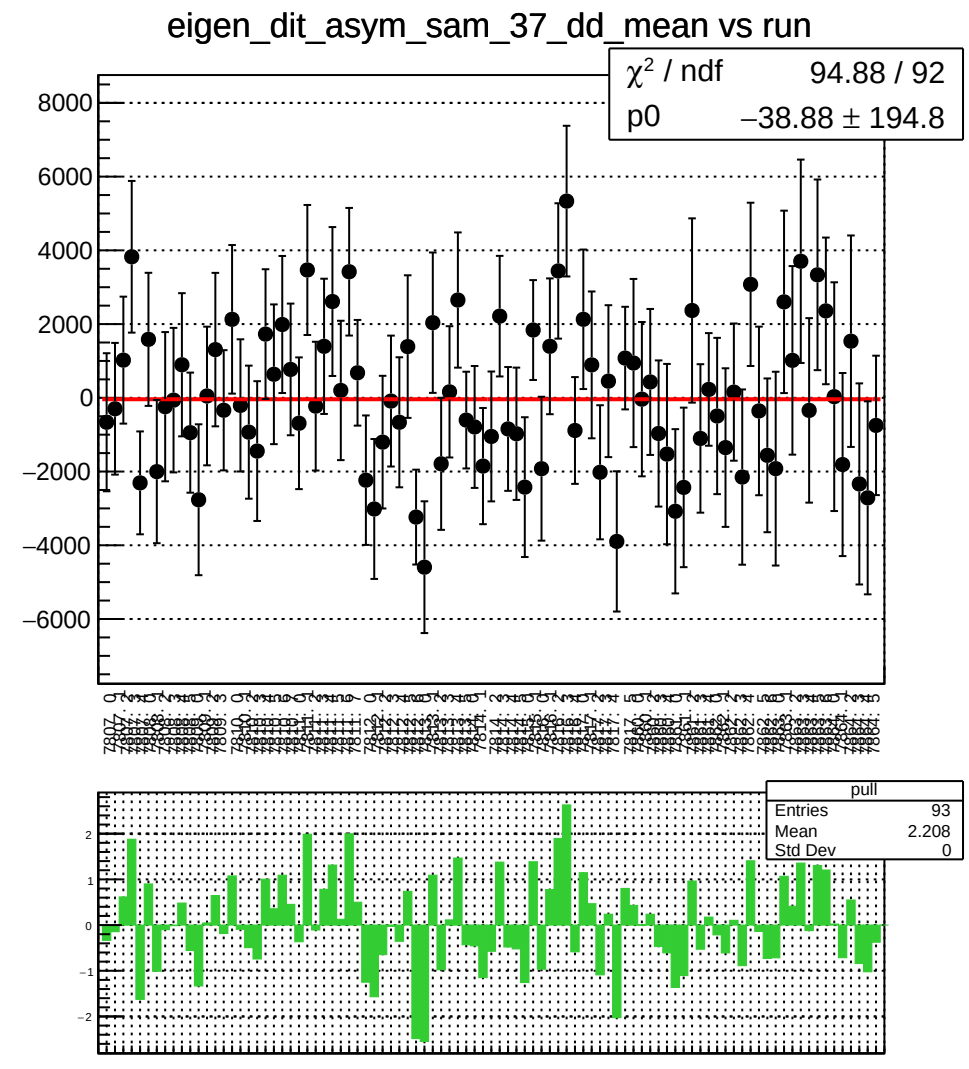

pull1D
Entries 93
Mean 0.01813
Std Dev 1.01

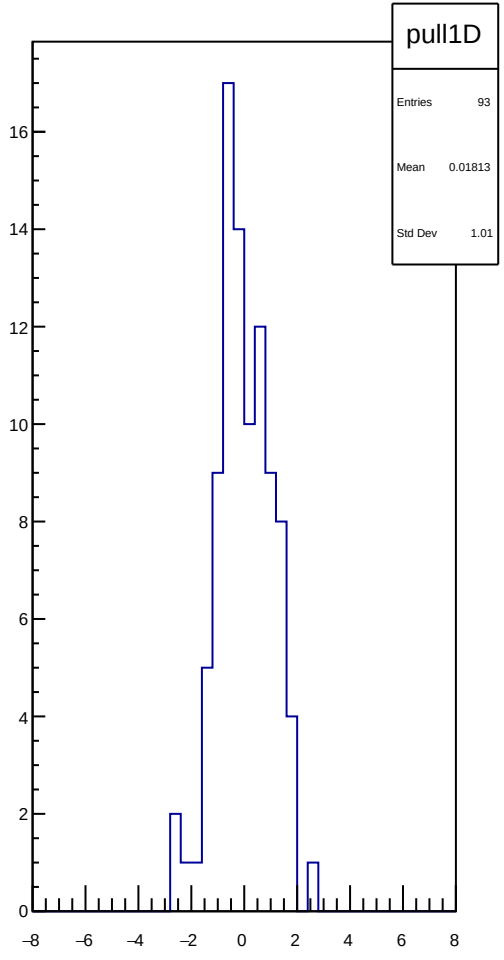

dit_asym_sam_37_dd_rms vs run
χ² / ndf 3.567e+04 / 92
p0 185.6 ± 0.1377
300
280
260
240
220
200
180
160
140

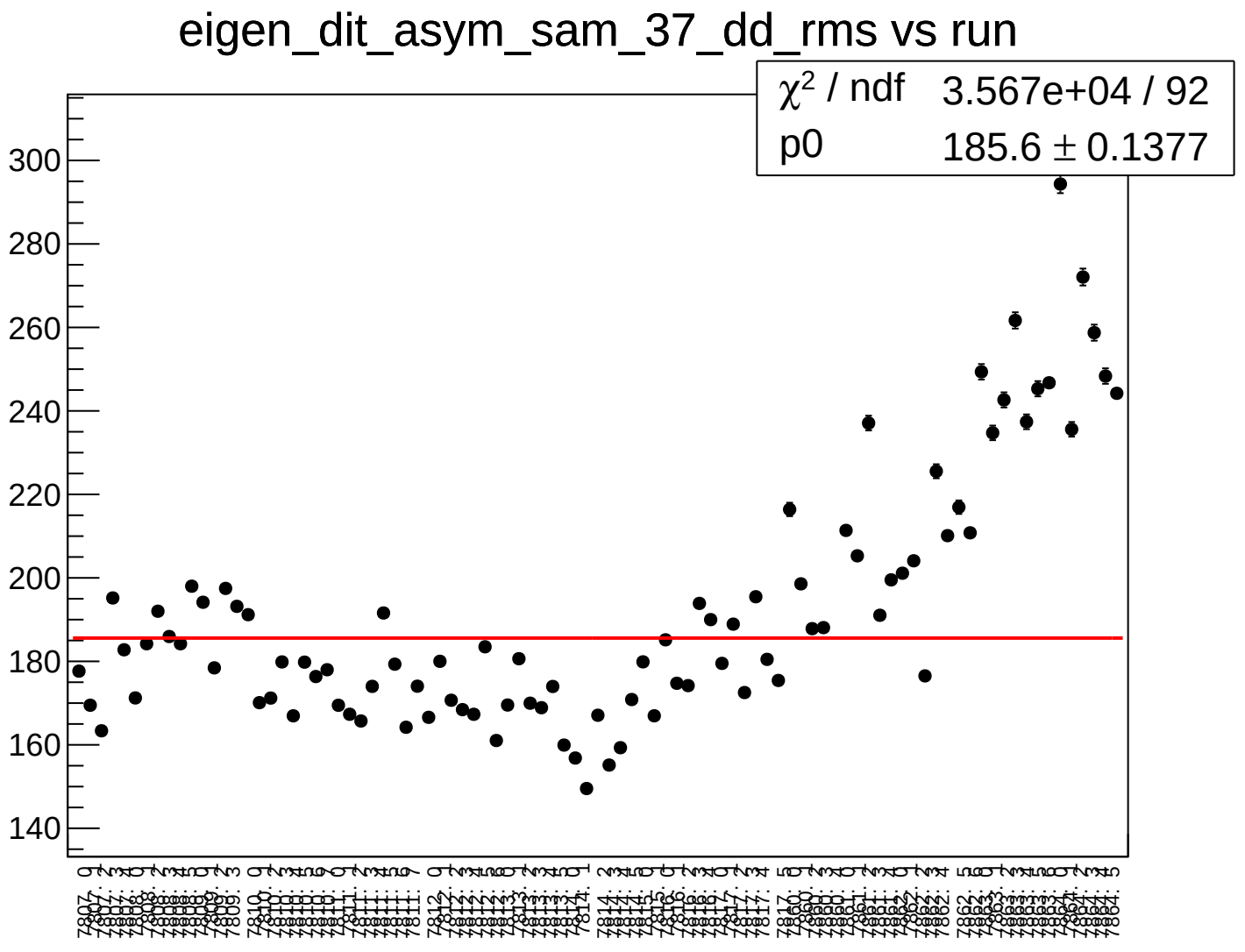

asym_sam_37_dd_dit_correction_mean vs run
χ² / ndf 83.99 / 92
p0 −451.4 ± 1231
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −33.97
Std Dev 0
2
1
0
−1
−2

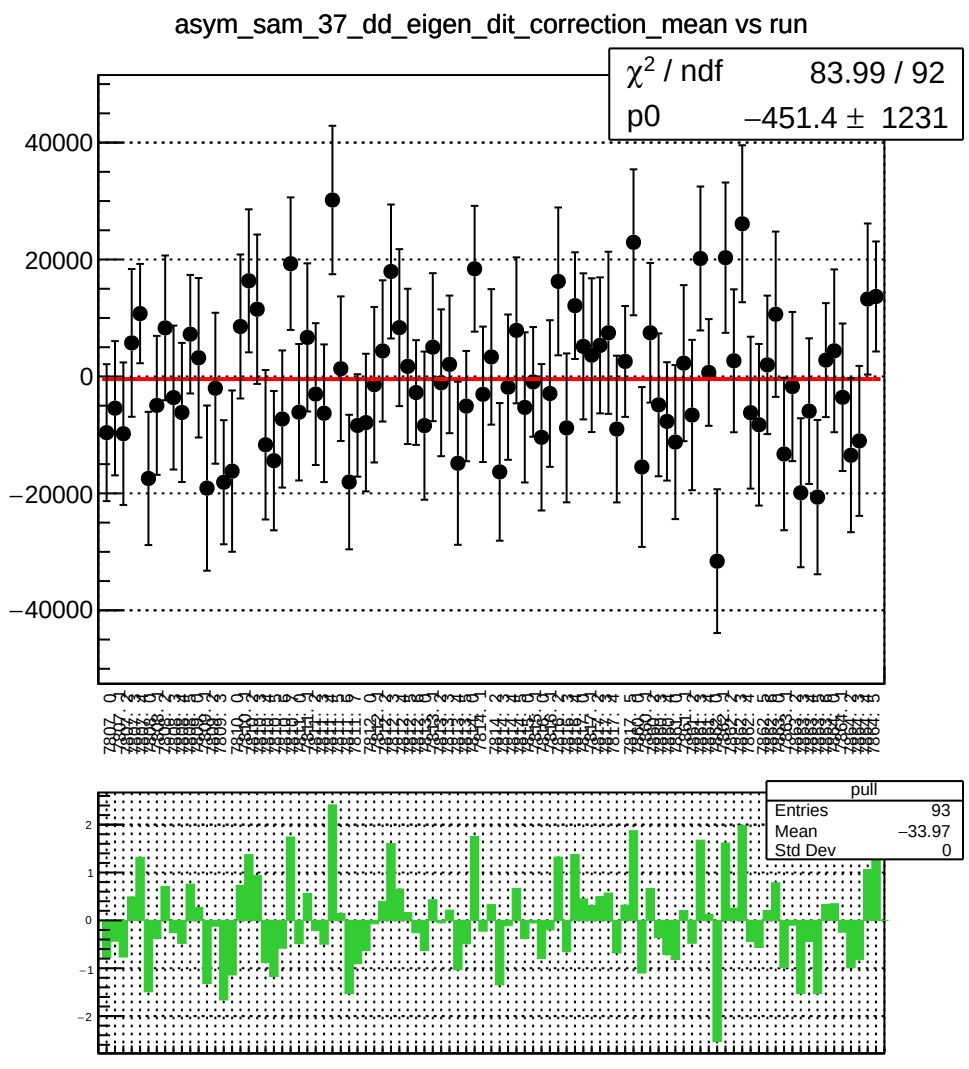

pull1D
Entries 93
Mean −0.01315
Std Dev 0.9503
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

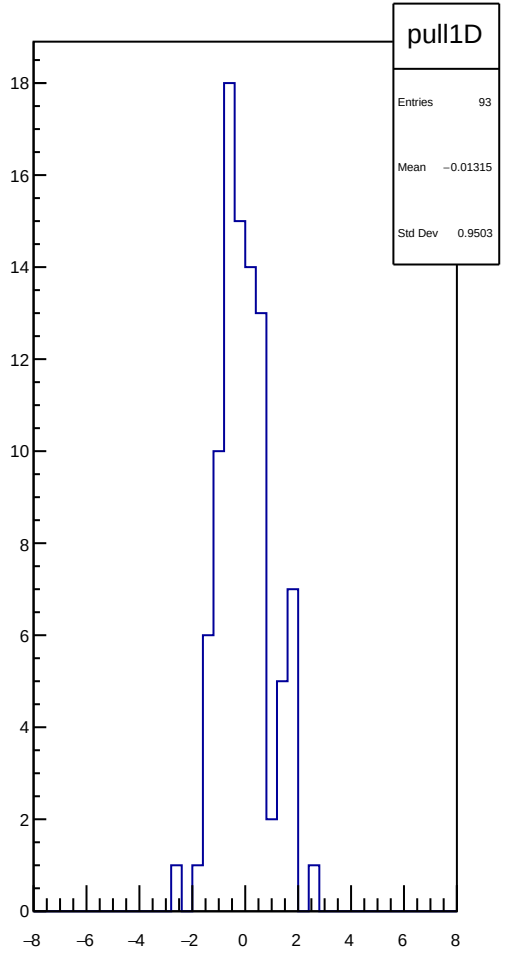

asym_sam_37_dd_dit_correction_rms vs run
χ² / ndf 5516 / 92
p0 1182 ± 0.8702
1350
1300
1250
1200
1150
1100
1050
1000

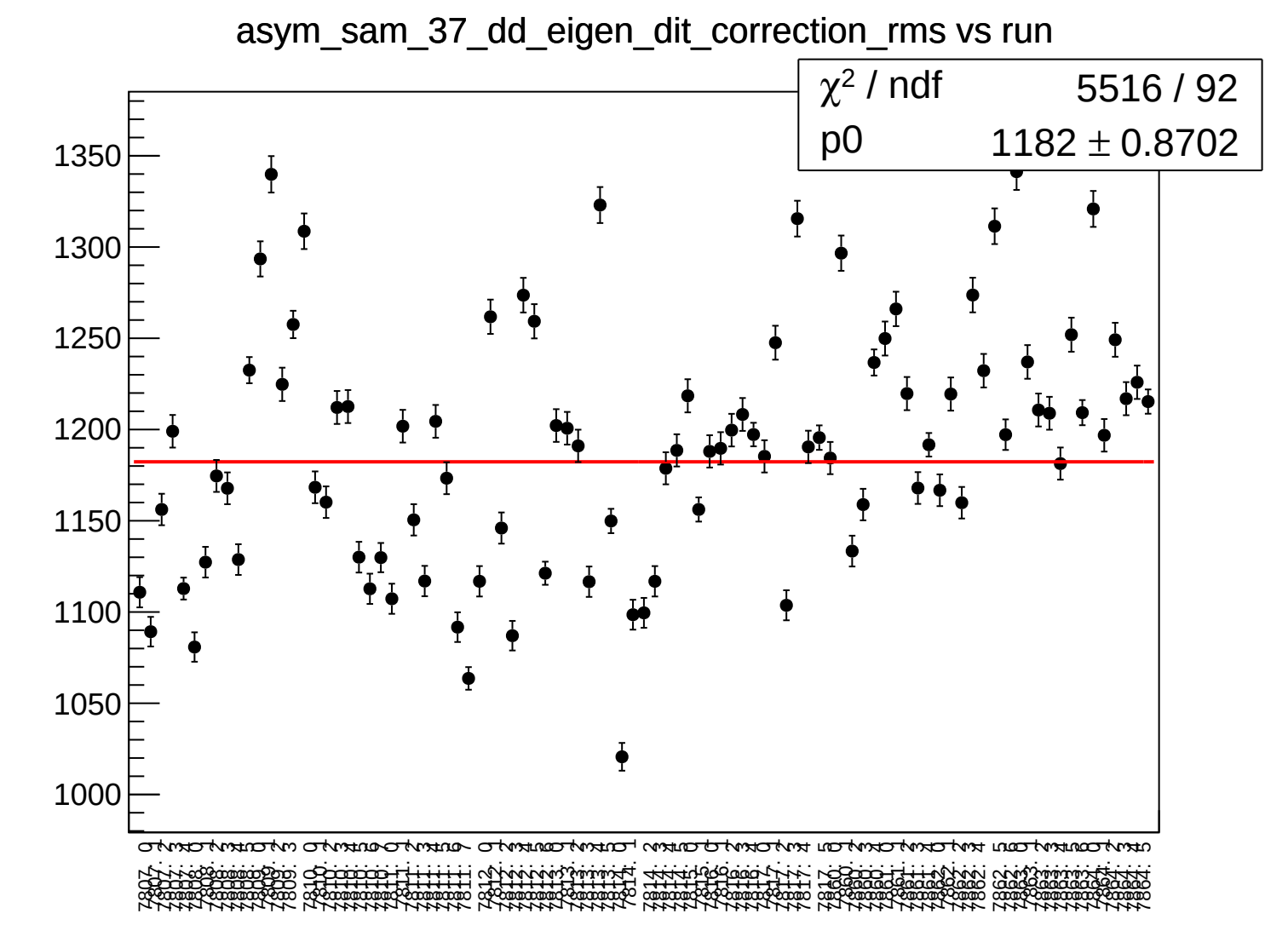

eigen_dit_asym_sam_37_dd_mean vs run
χ² / ndf 94.88 / 92
p0 −38.88 ± 194.8
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean 2.208
Std Dev 0
2
1
0
−1
−2

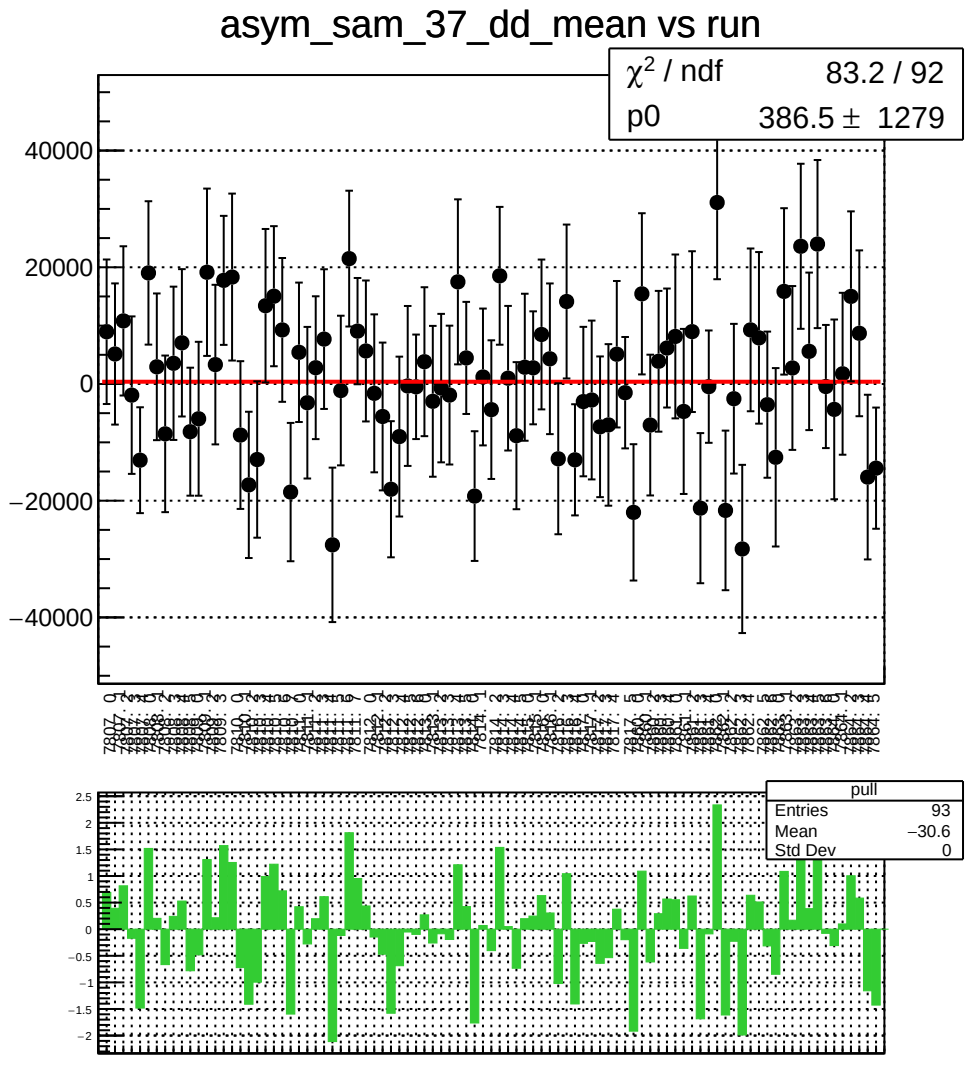

pull1D
Entries 93
Mean 0.01813
Std Dev 1.01
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

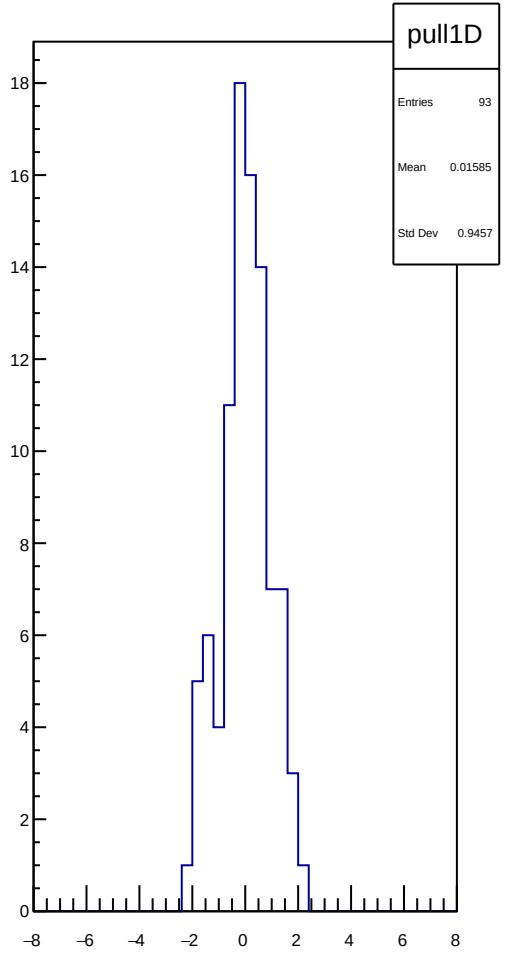

eigen_dit_asym_sam_37_dd_rms vs run
χ² / ndf 3.567e+04 / 92
p0 185.6 ± 0.1377
300
280
260
240
220
200
180
160
140

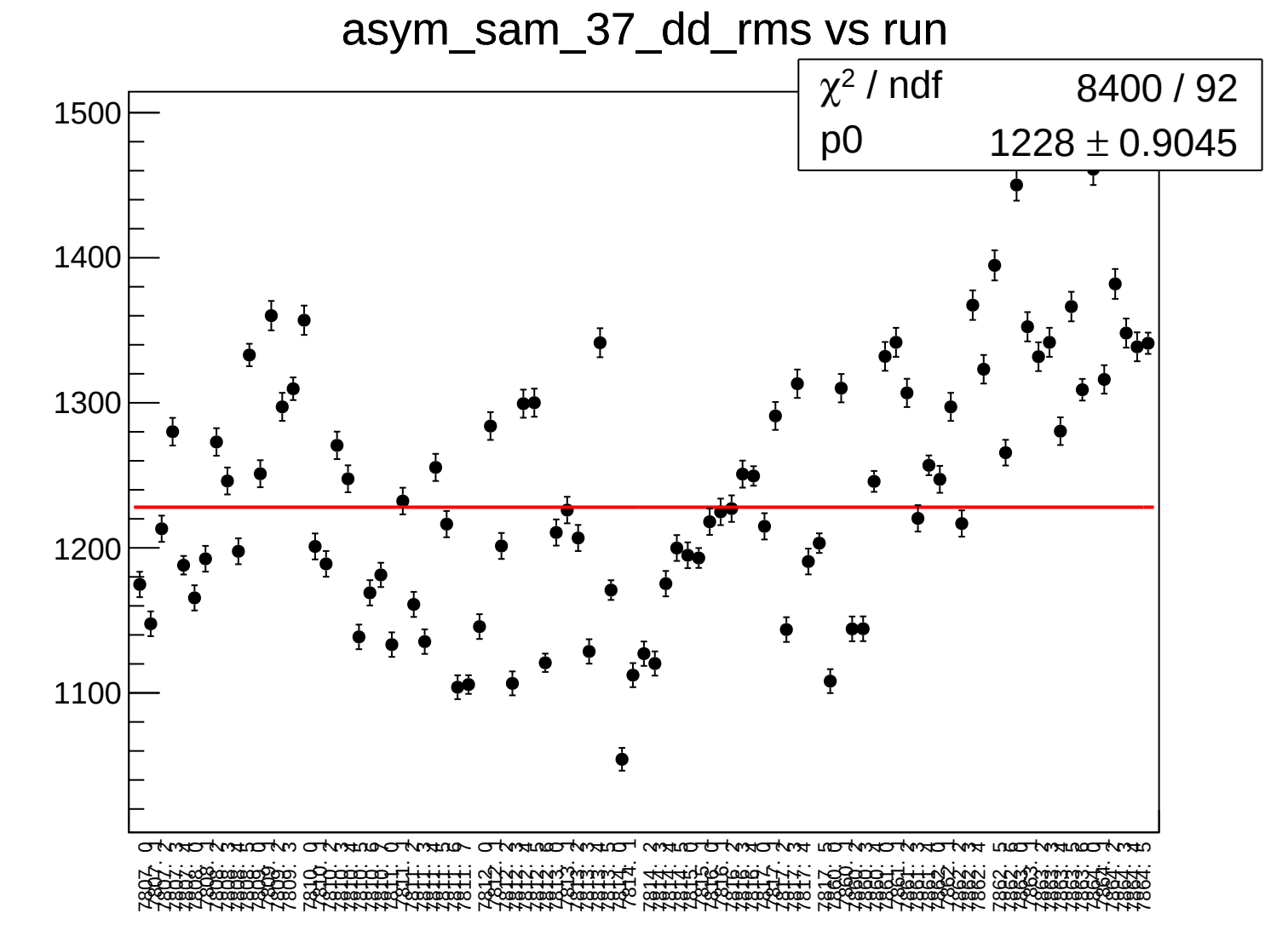

asym_sam_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 83.99 / 92
p0 −451.4 ± 1231
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −33.97
Std Dev 0
2
1
0
−1
−2

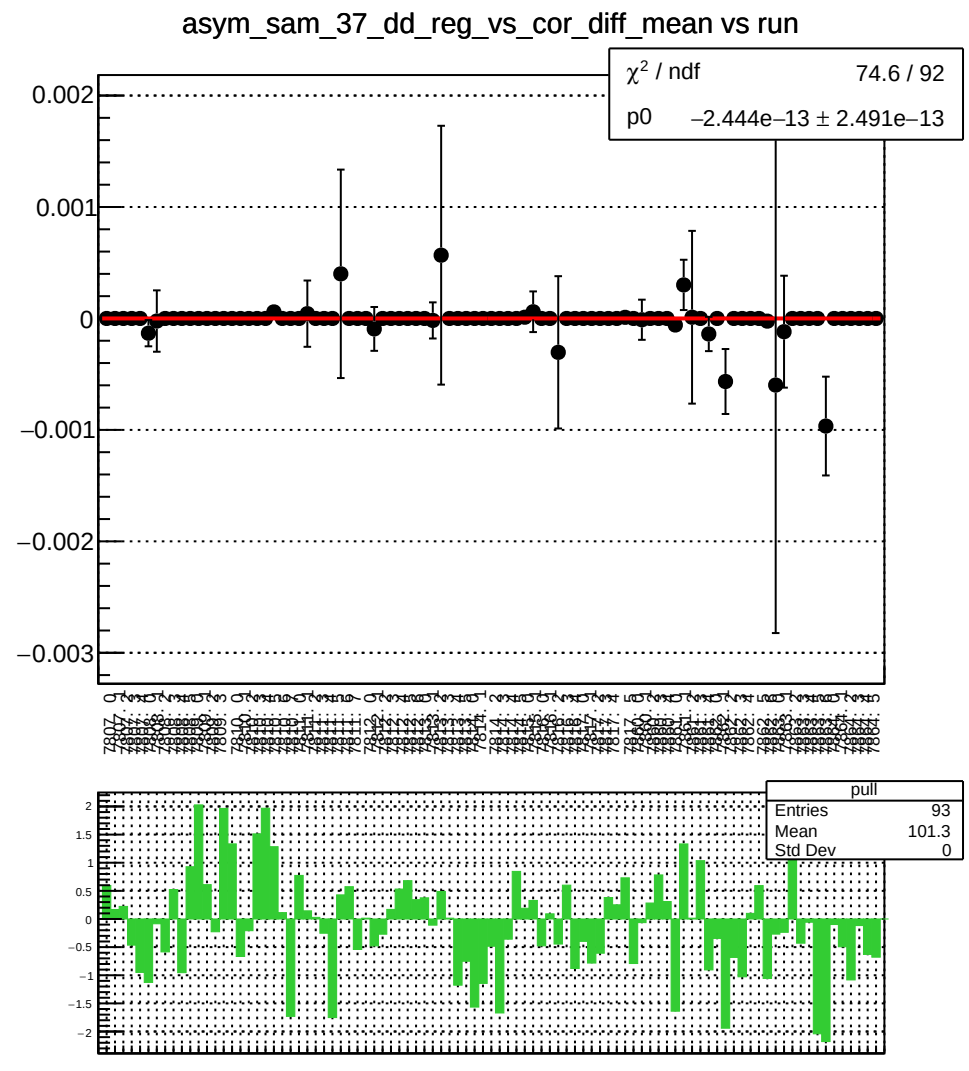

pull1D
Entries 93
Mean −0.01315
Std Dev 0.9503
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

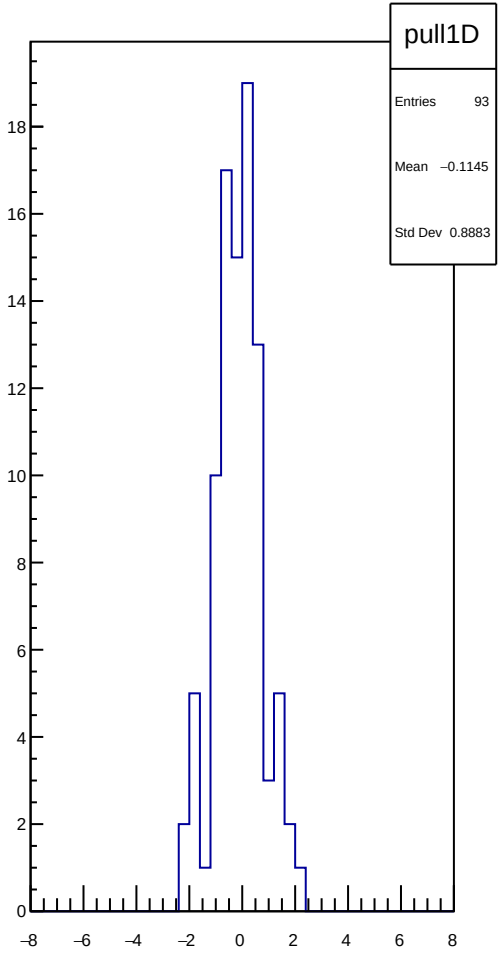

asym_sam_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 5516 / 92
p0 1182 ± 0.8702
1350
1300
1250
1200
1150
1100
1050
1000

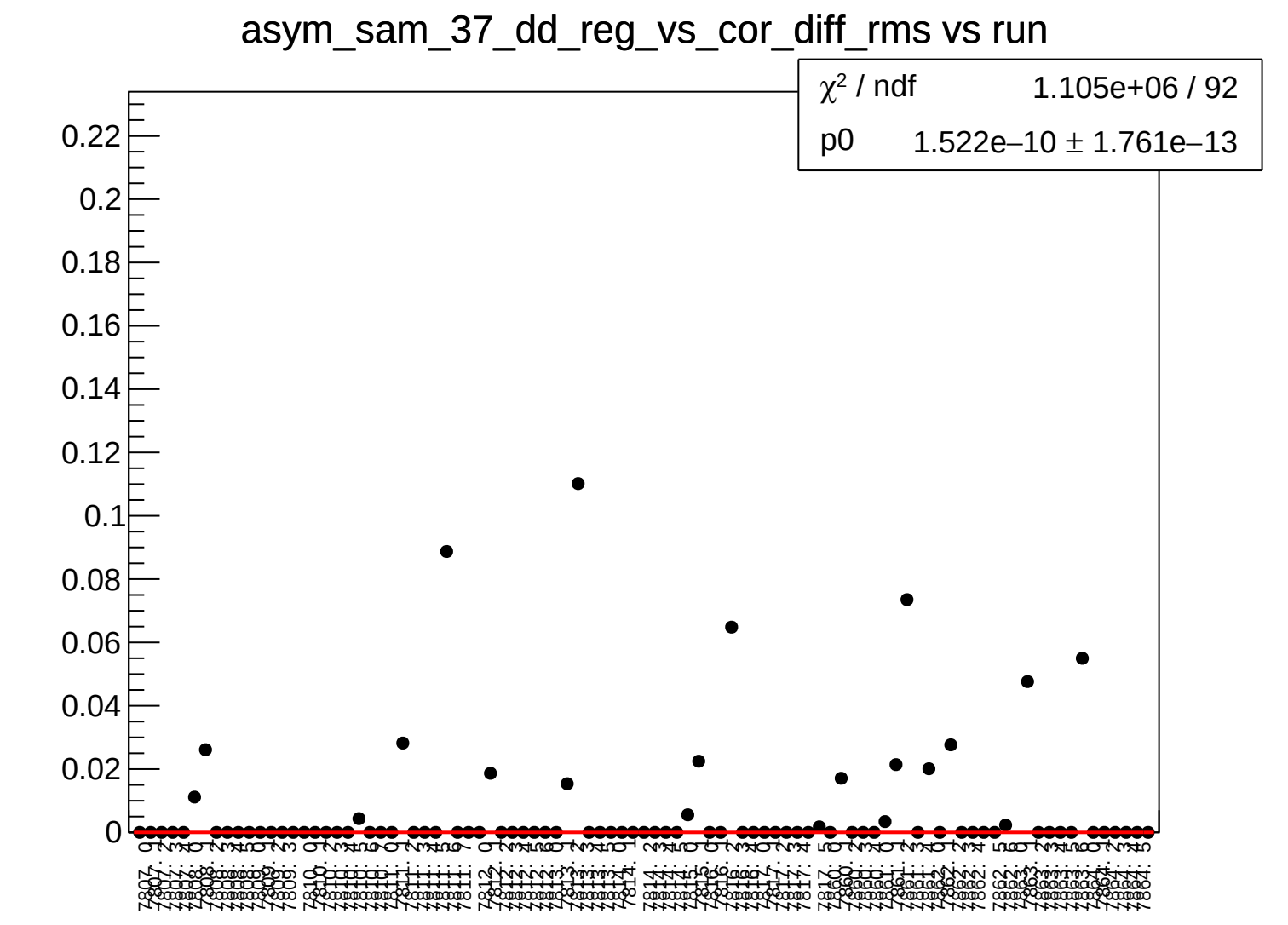

asym_sam_37_dd_mean vs run
χ² / ndf 83.2 / 92
p0 386.5 ± 1279
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −30.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

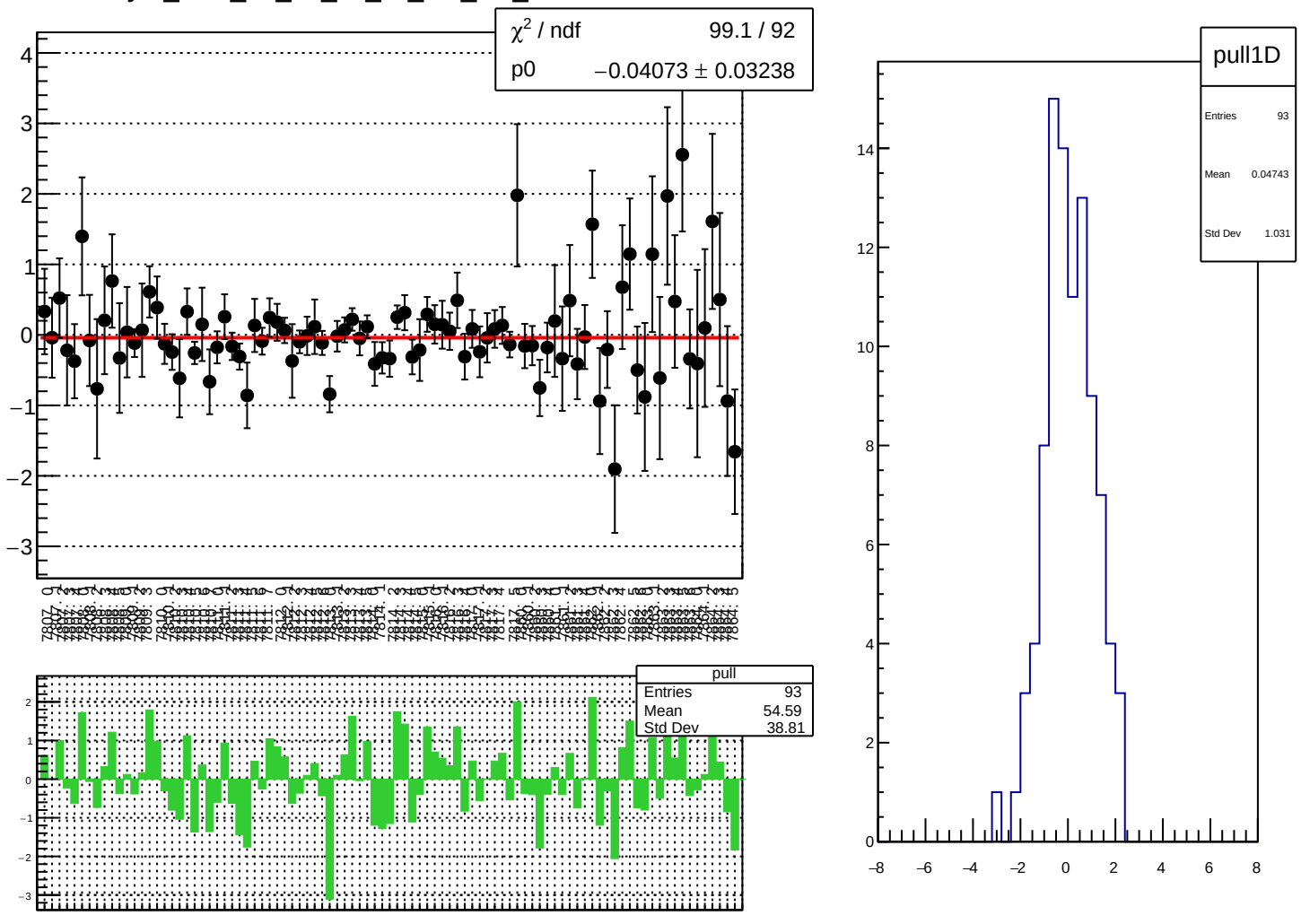

pull1D
Entries 93
Mean 0.01585
Std Dev 0.9457
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

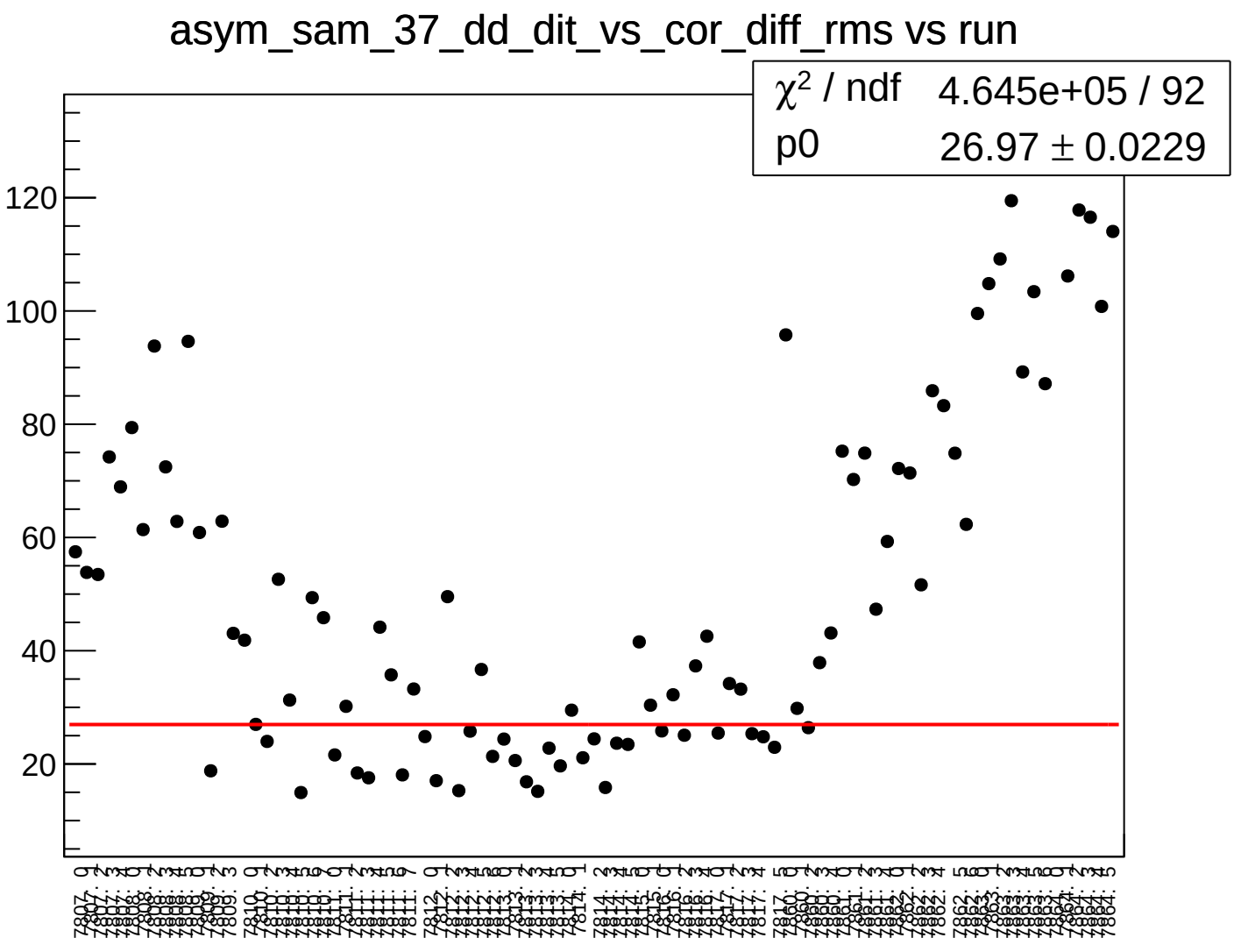

asym_sam_37_dd_rms vs run
χ² / ndf 8400 / 92
p0 1228 ± 0.9045
1500
1400
1300
1200
1100

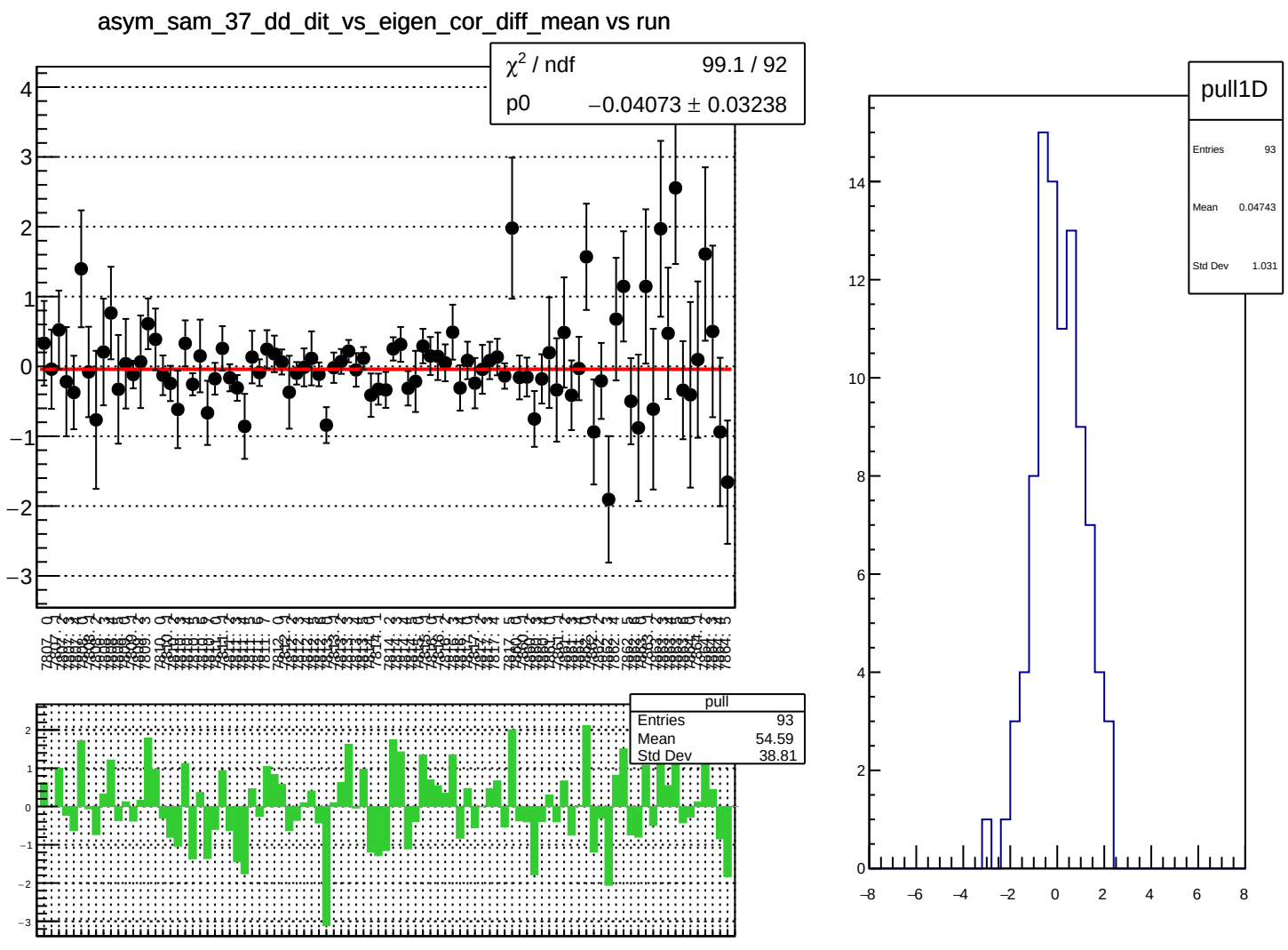

asym_sam_37_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 74.6 / 92
p0 −2.444e−13 ± 2.491e−13
0.002
0.001
0
−0.001
−0.002
−0.003
pull
Entries 93
Mean 101.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

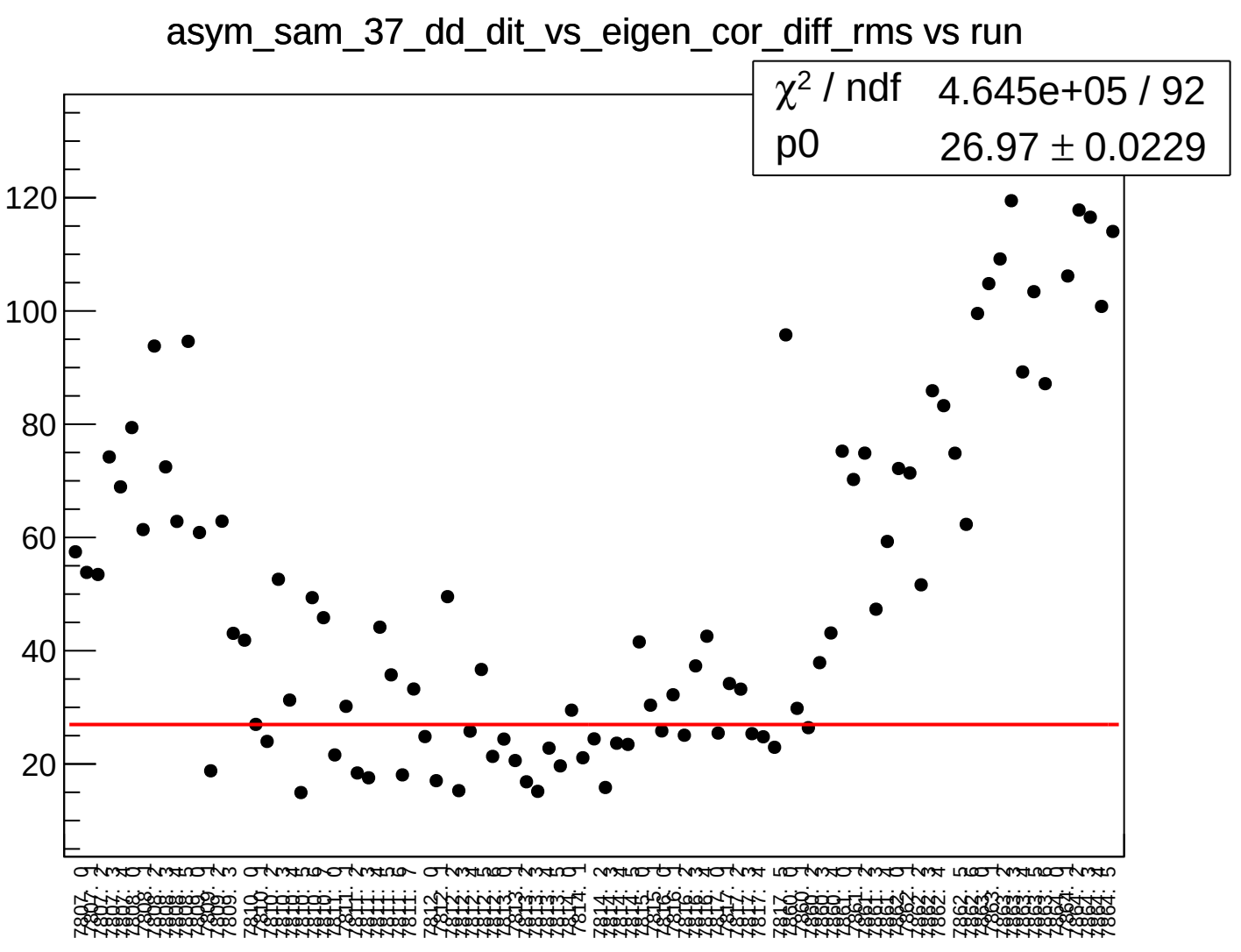

pull1D
Entries 93
Mean −0.1145
Std Dev 0.8883
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

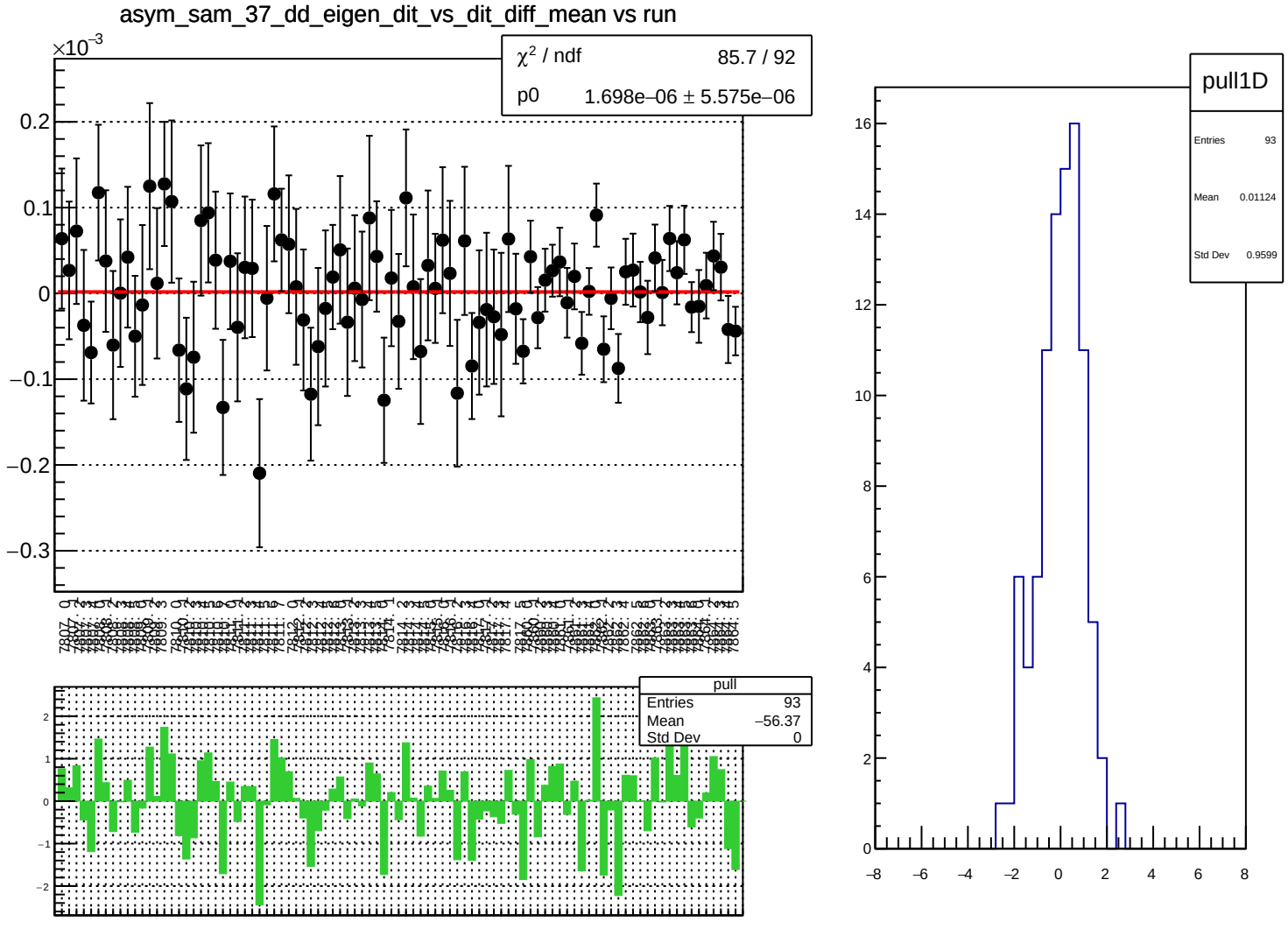

asym_sam_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.105e+06 / 92
p0 1.522e−10 ± 1.761e−13
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

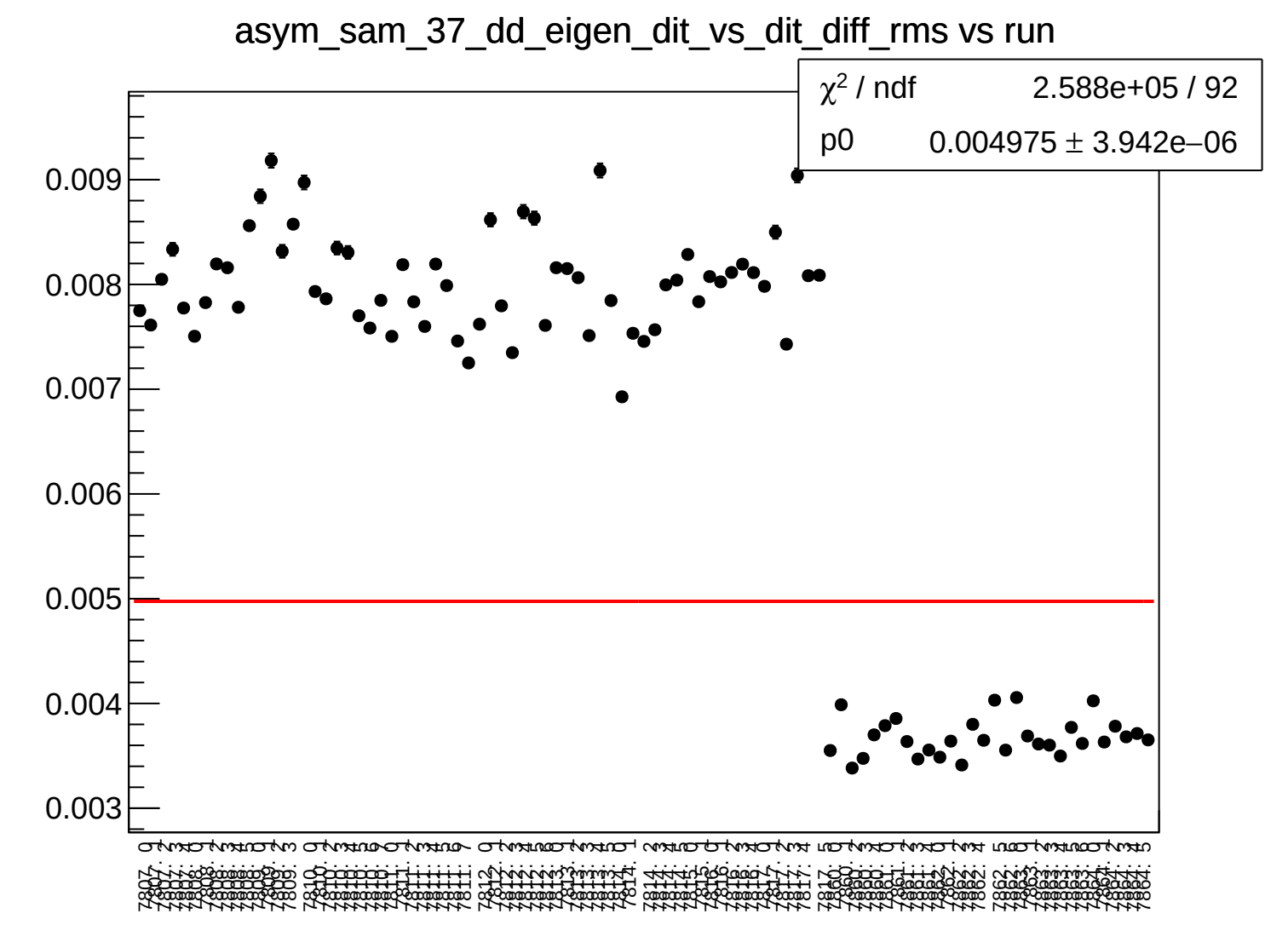

asym_sam_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 99.1 / 92
p0 −0.04073 ± 0.03238
pull
Entries 93
Mean 54.59
Std Dev 38.81
pull1D
Entries 93
Mean 0.04743
Std Dev 1.031

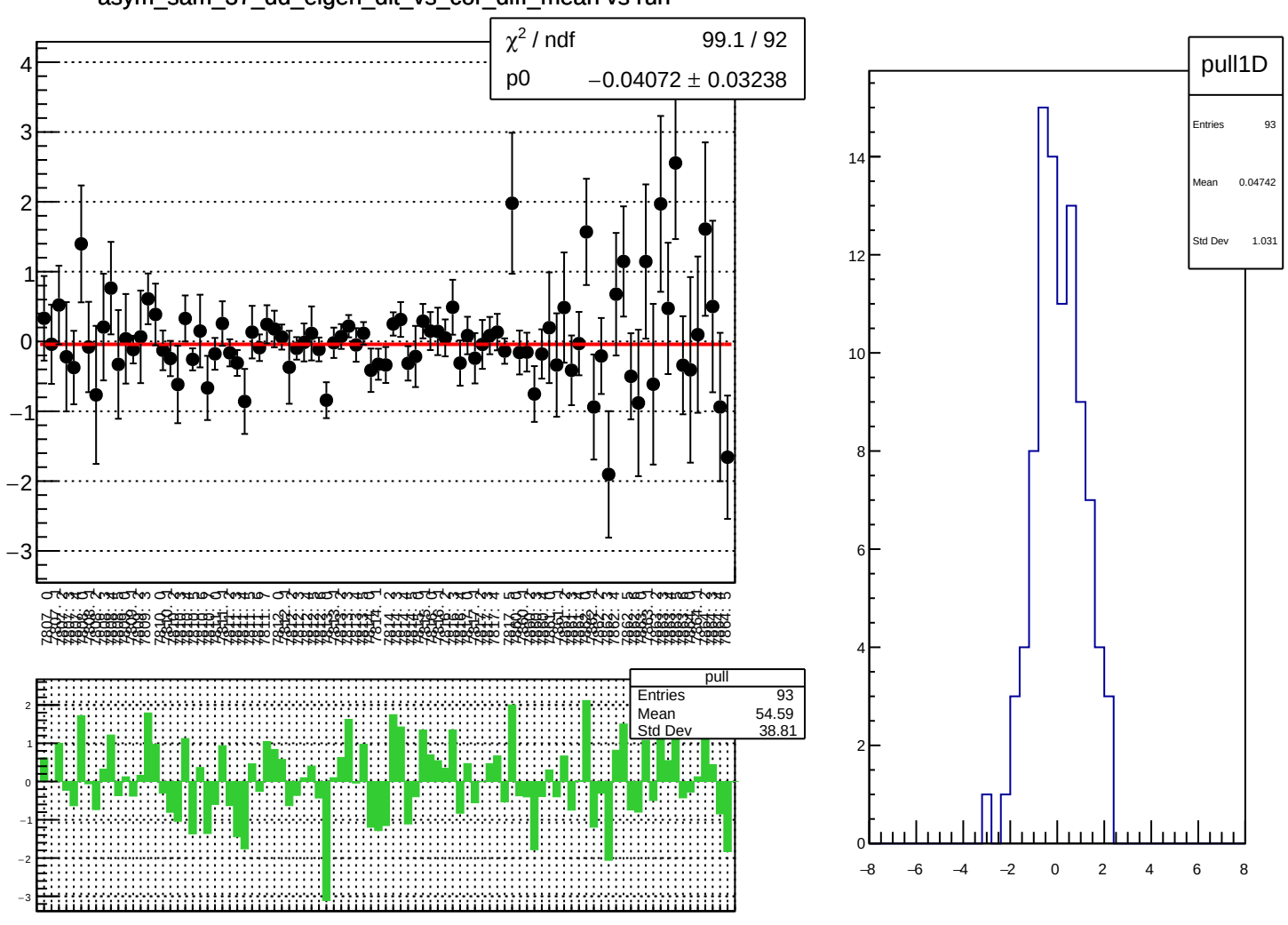

asym_sam_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.645e+05 / 92
p0 26.97 ± 0.0229
120
100
80
60
40
20

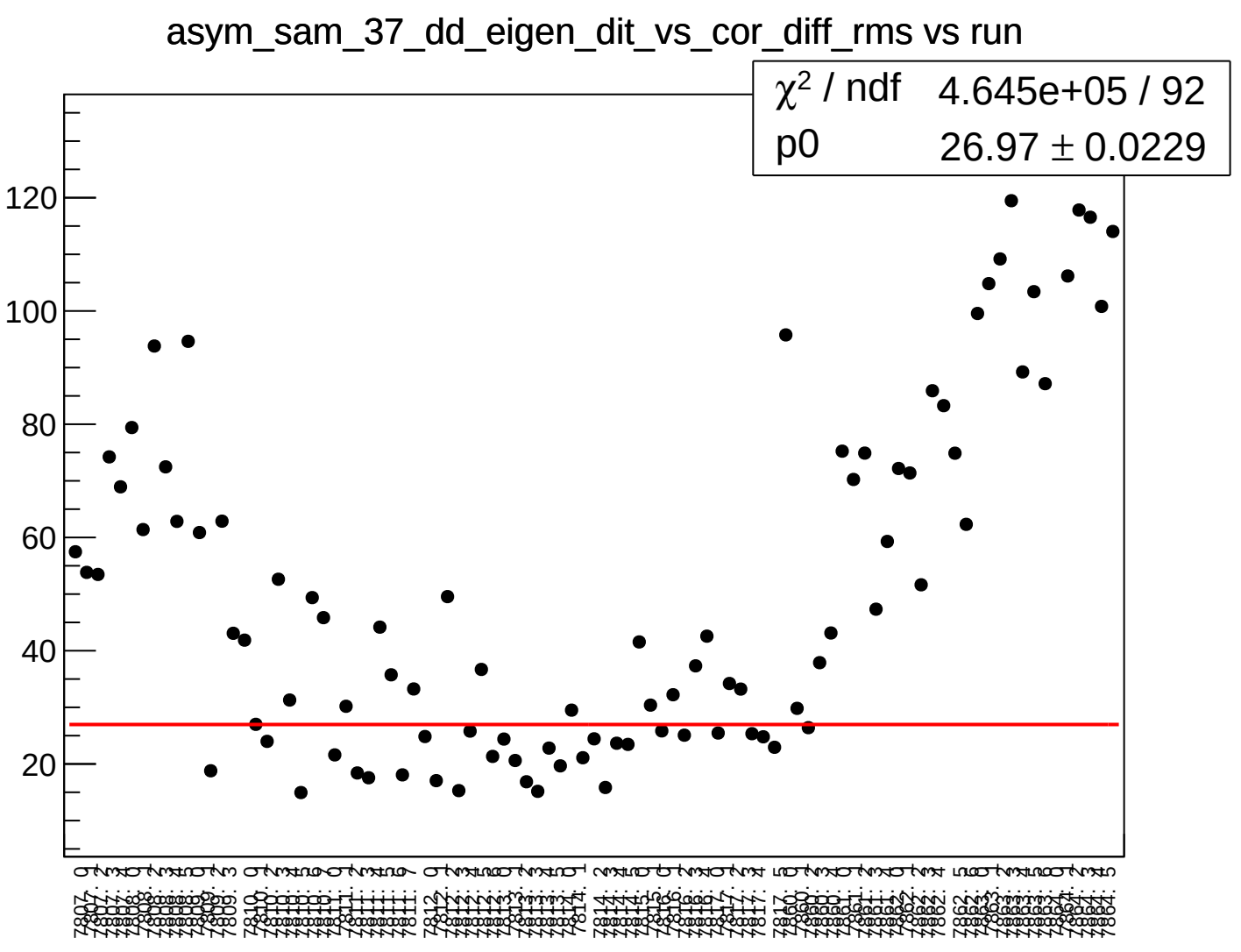

asym_sam_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.1 / 92
p0 −0.04073 ± 0.03238
pull
Entries 93
Mean 54.59
Std Dev 38.81
pull1D
Entries 93
Mean 0.04743
Std Dev 1.031

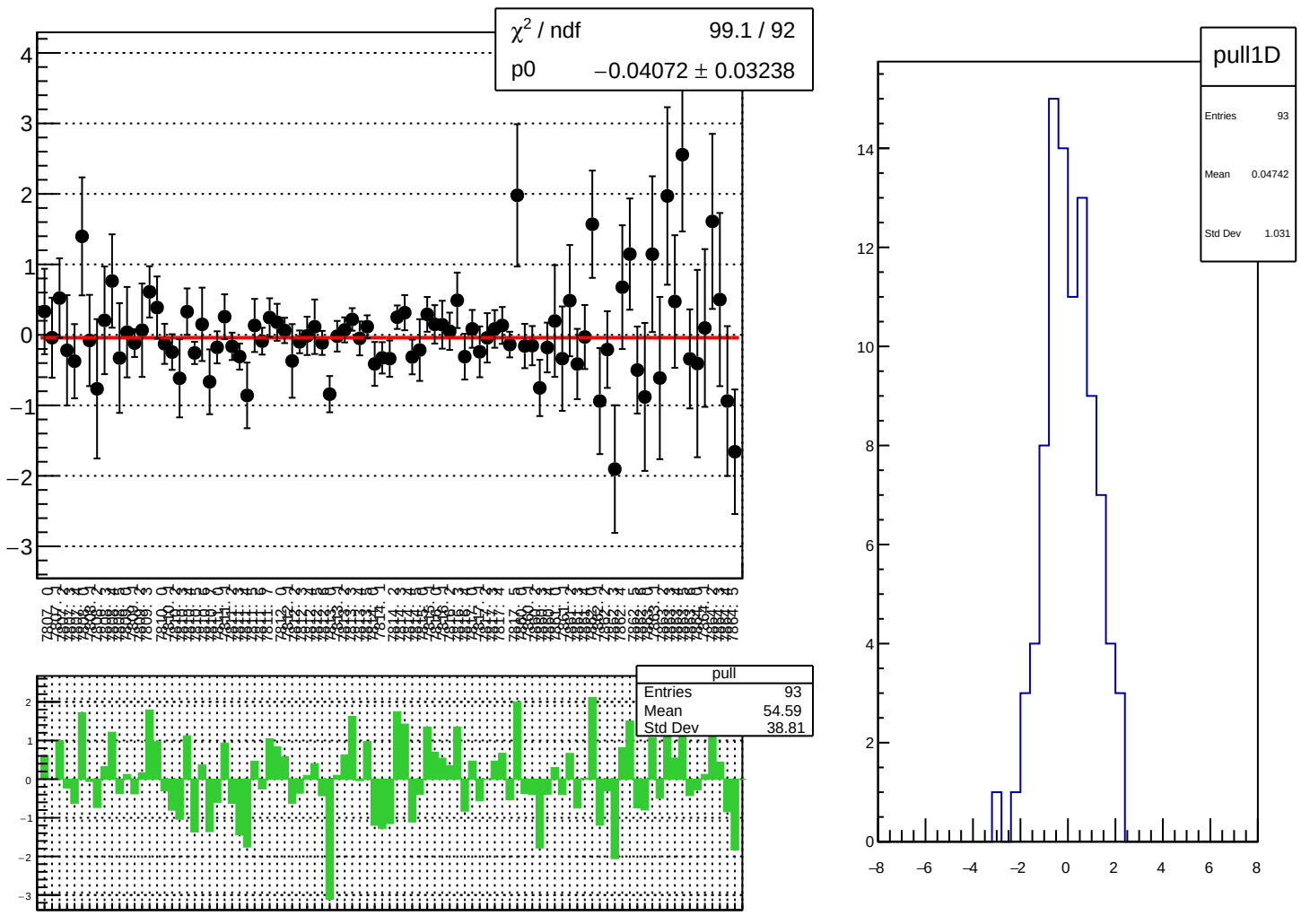

asym_sam_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.645e+05 / 92
p0 26.97 ± 0.0229
120
100
80
60
40
20

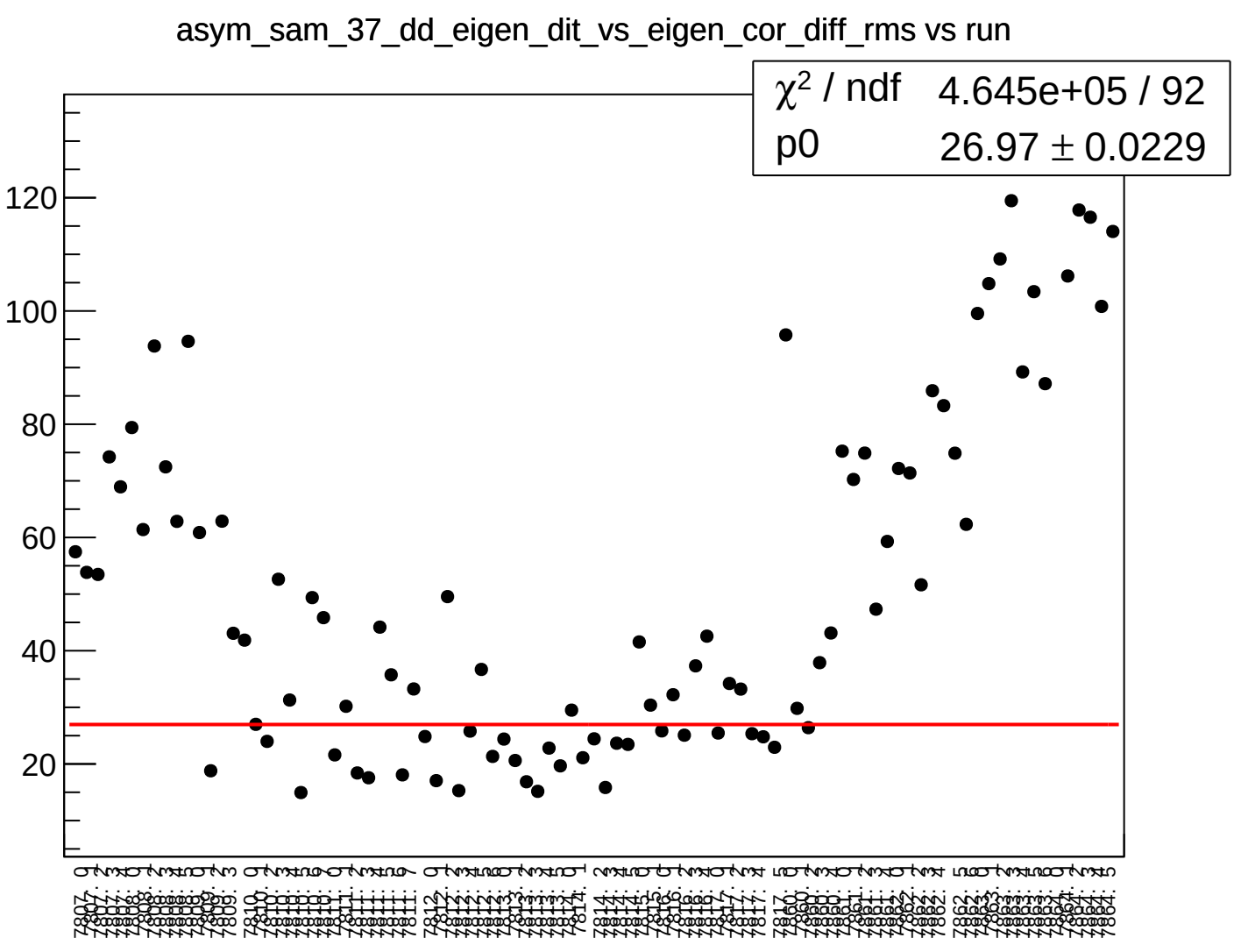

asym_sam_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.7 / 92
p0 1.698e−06 ± 5.575e−06
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 93
Mean −56.37
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.01124
Std Dev 0.9599
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

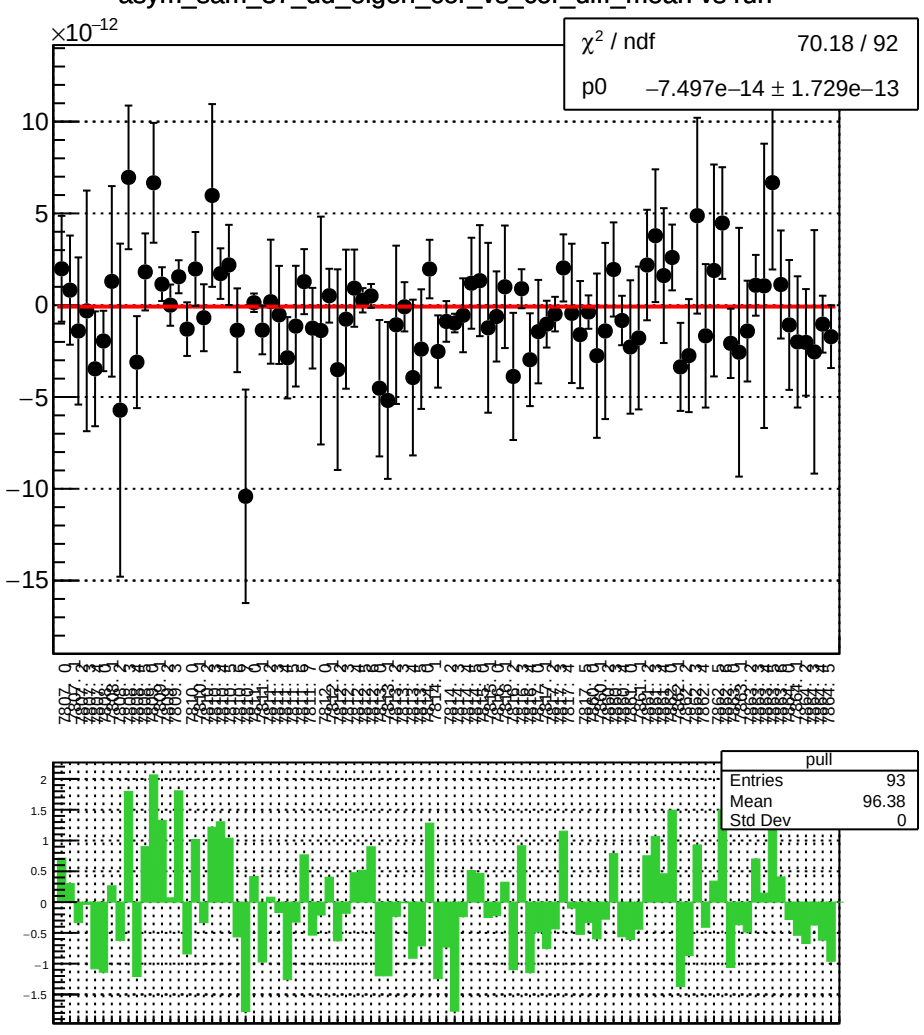

asym_sam_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.588e+05 / 92
p0 0.004975 ± 3.942e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003

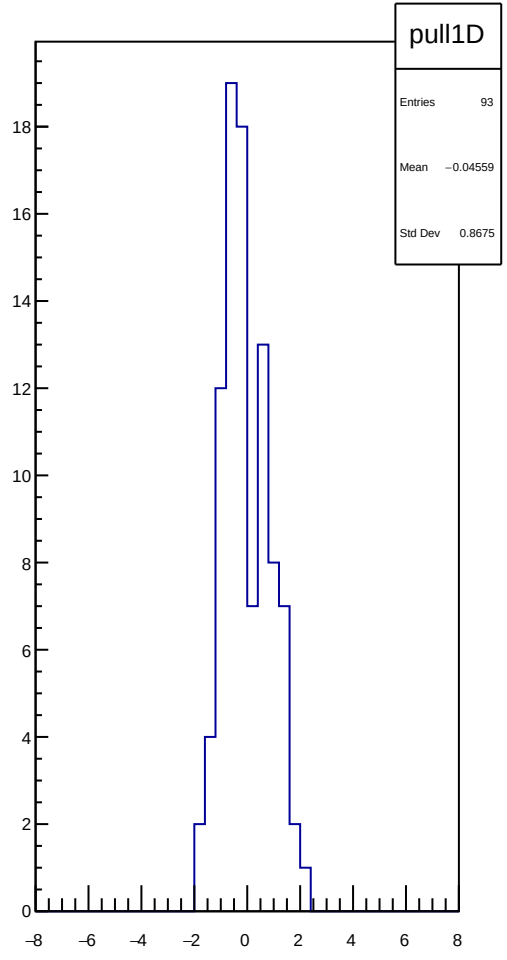

asym_sam_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 99.1 / 92
p0 −0.04072 ± 0.03238
pull
Entries 93
Mean 54.59
Std Dev 38.81
pull1D
Entries 93
Mean 0.04742
Std Dev 1.031

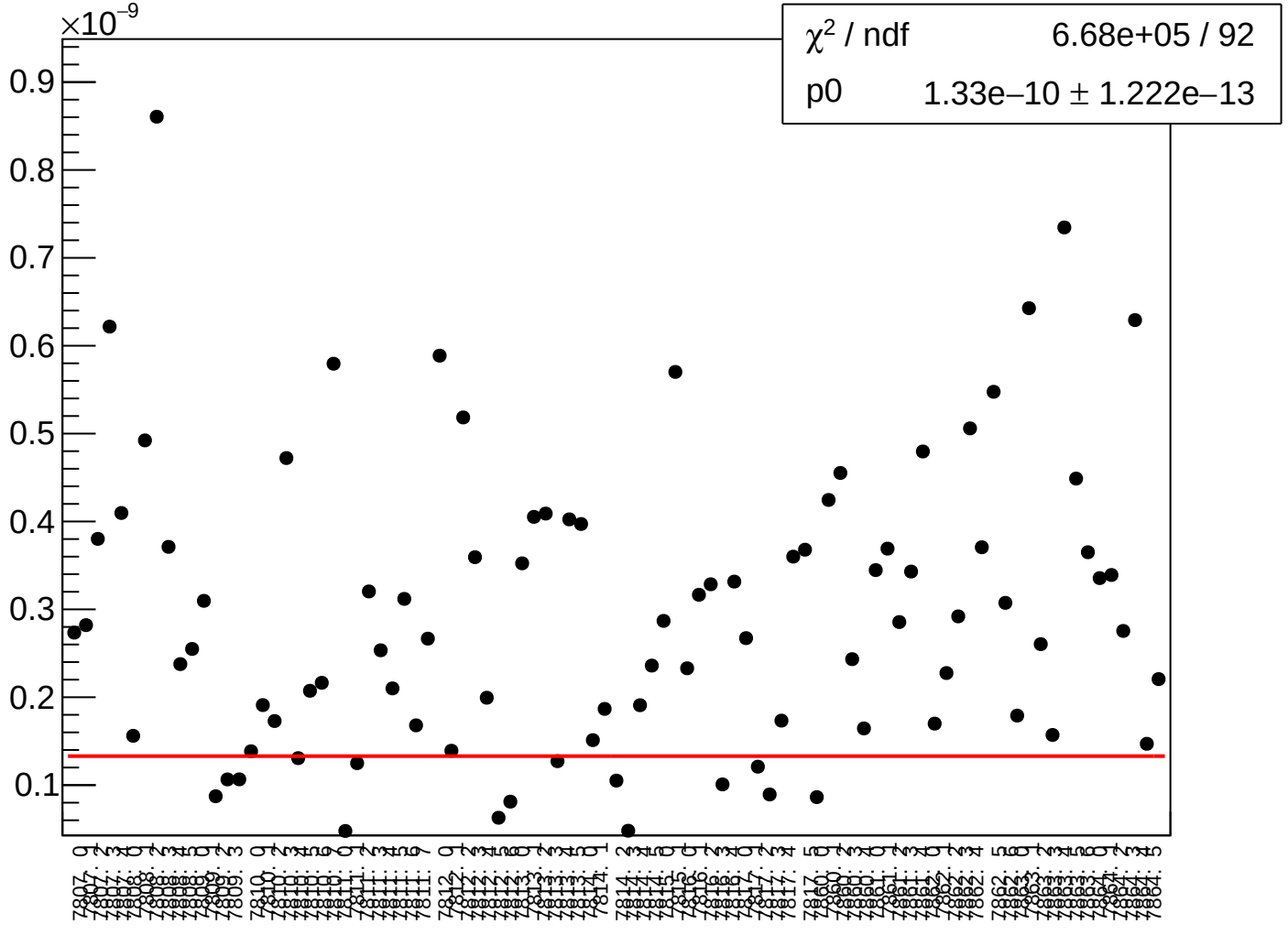

asym_sam_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.645e+05 / 92
p0 26.97 ± 0.0229
120
100
80
60
40
20

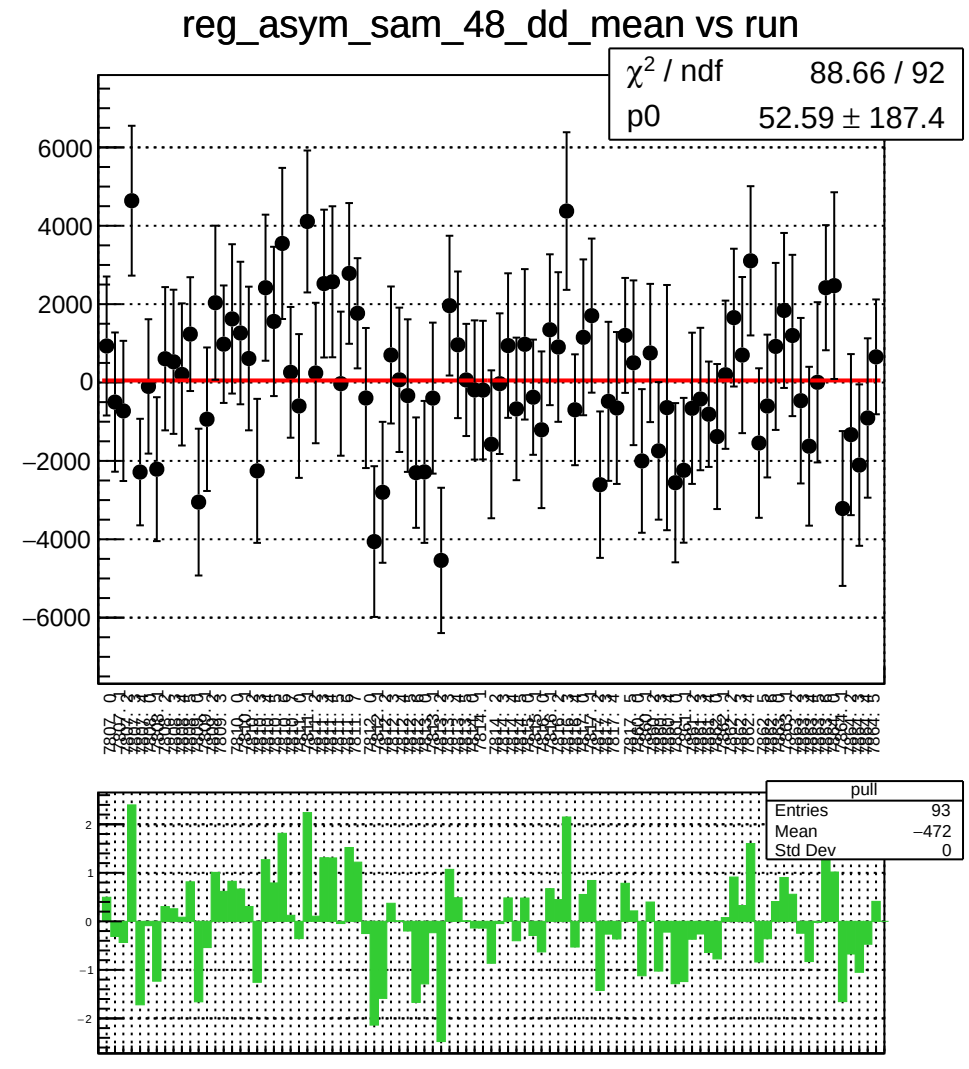

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.1 / 92
p0 −0.04072 ± 0.03238
pull
Entries 93
Mean 54.59
Std Dev 38.81
pull1D
Entries 93
Mean 0.04742
Std Dev 1.031

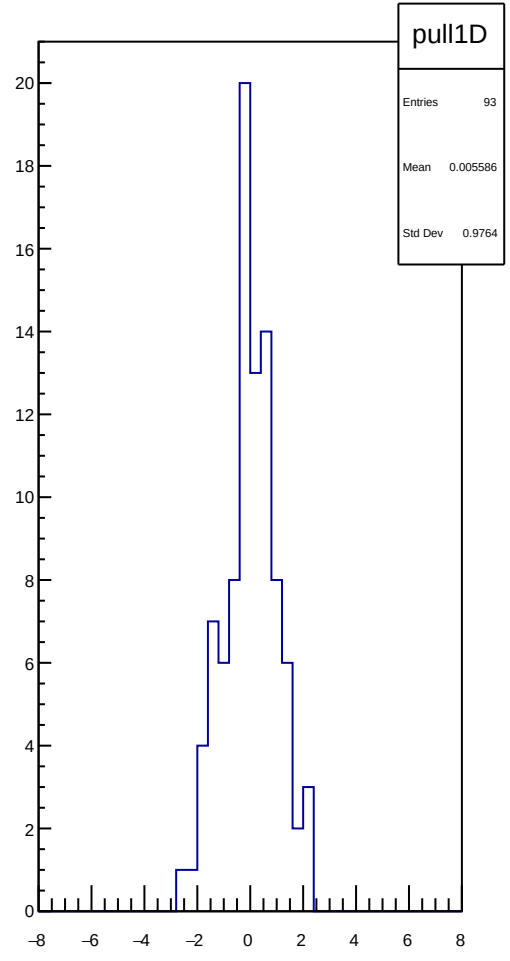

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.645e+05 / 92
p0 26.97 ± 0.0229
120
100
80
60
40
20

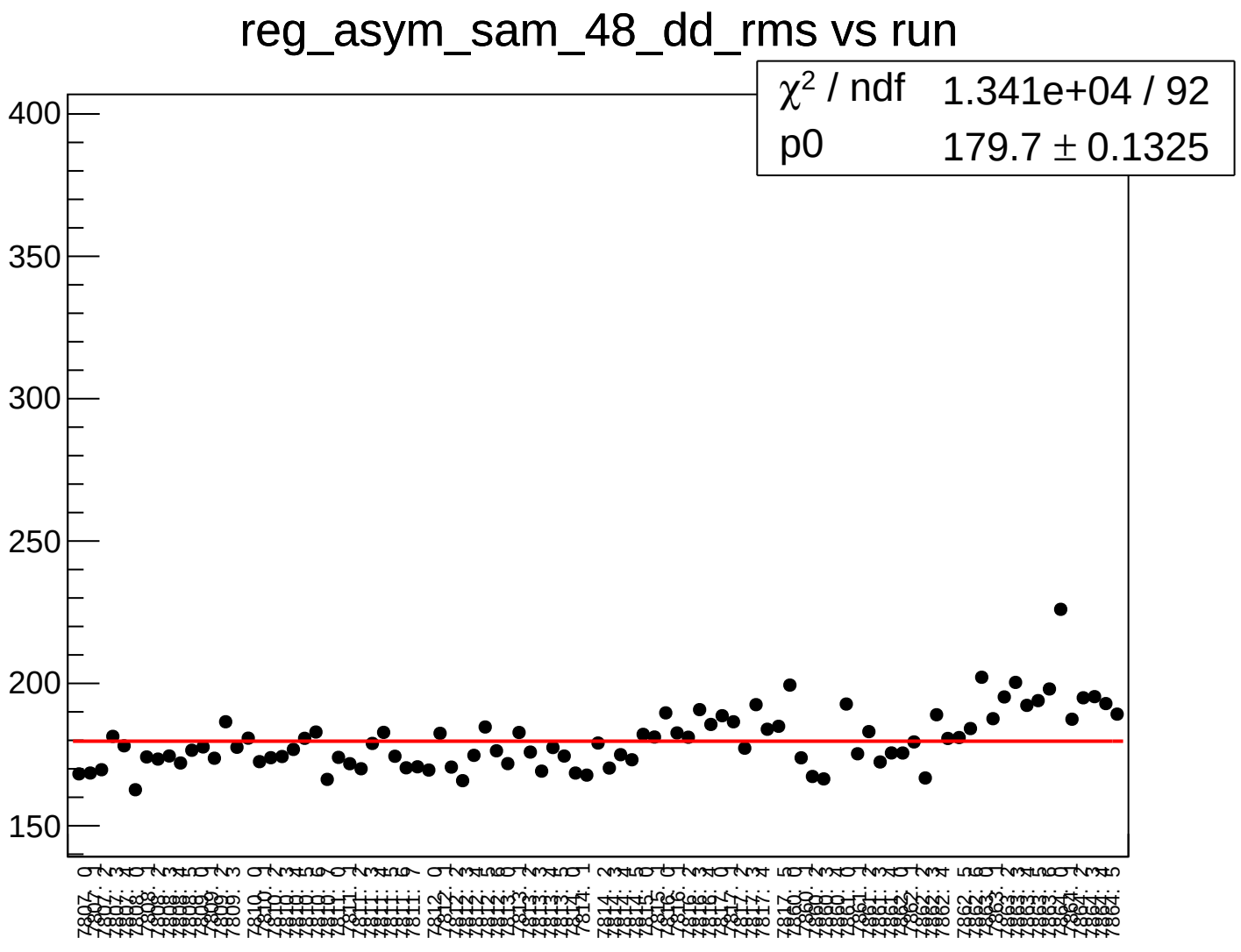

asym_sam_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 70.18 / 92
p0 −7.497e−14 ± 1.729e−13
pull
Entries 93
Mean 96.38
Std Dev 0

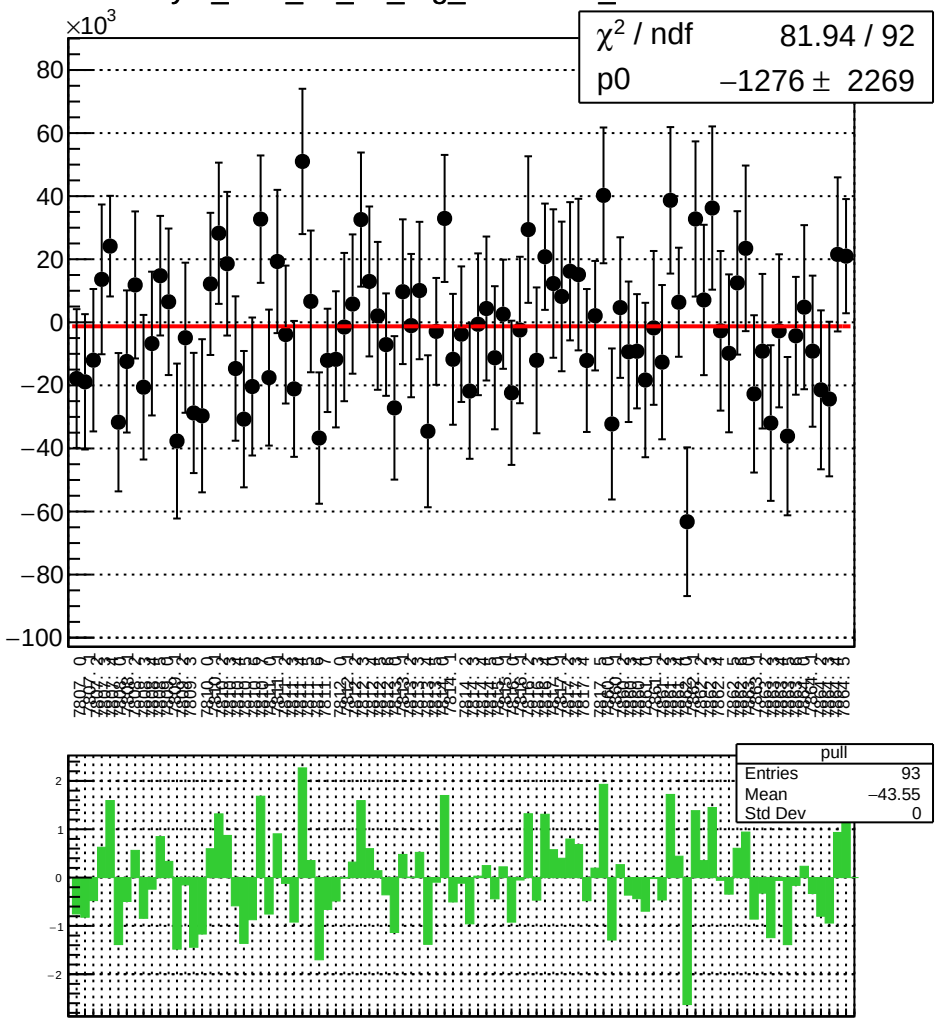

pull1D
Entries 93
Mean −0.04559
Std Dev 0.8675

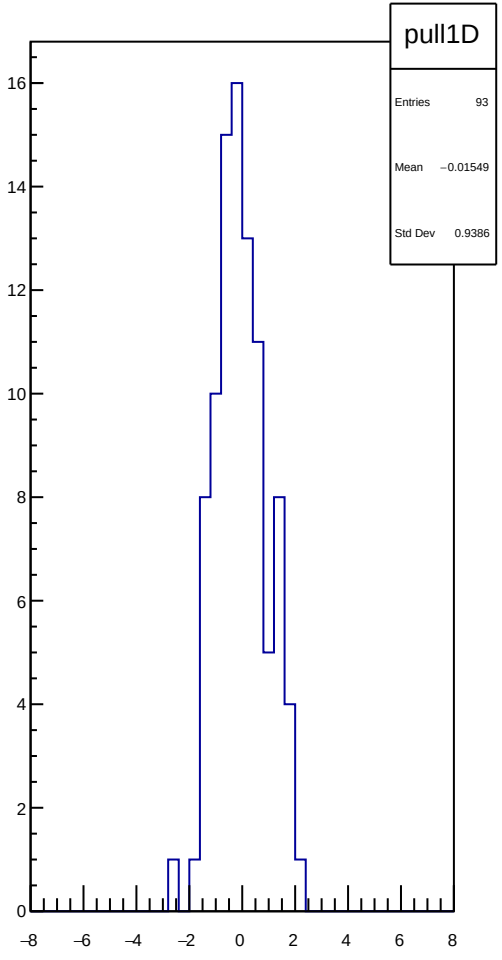

asym_sam_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.68e+05 / 92
p0 1.33e−10 ± 1.222e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

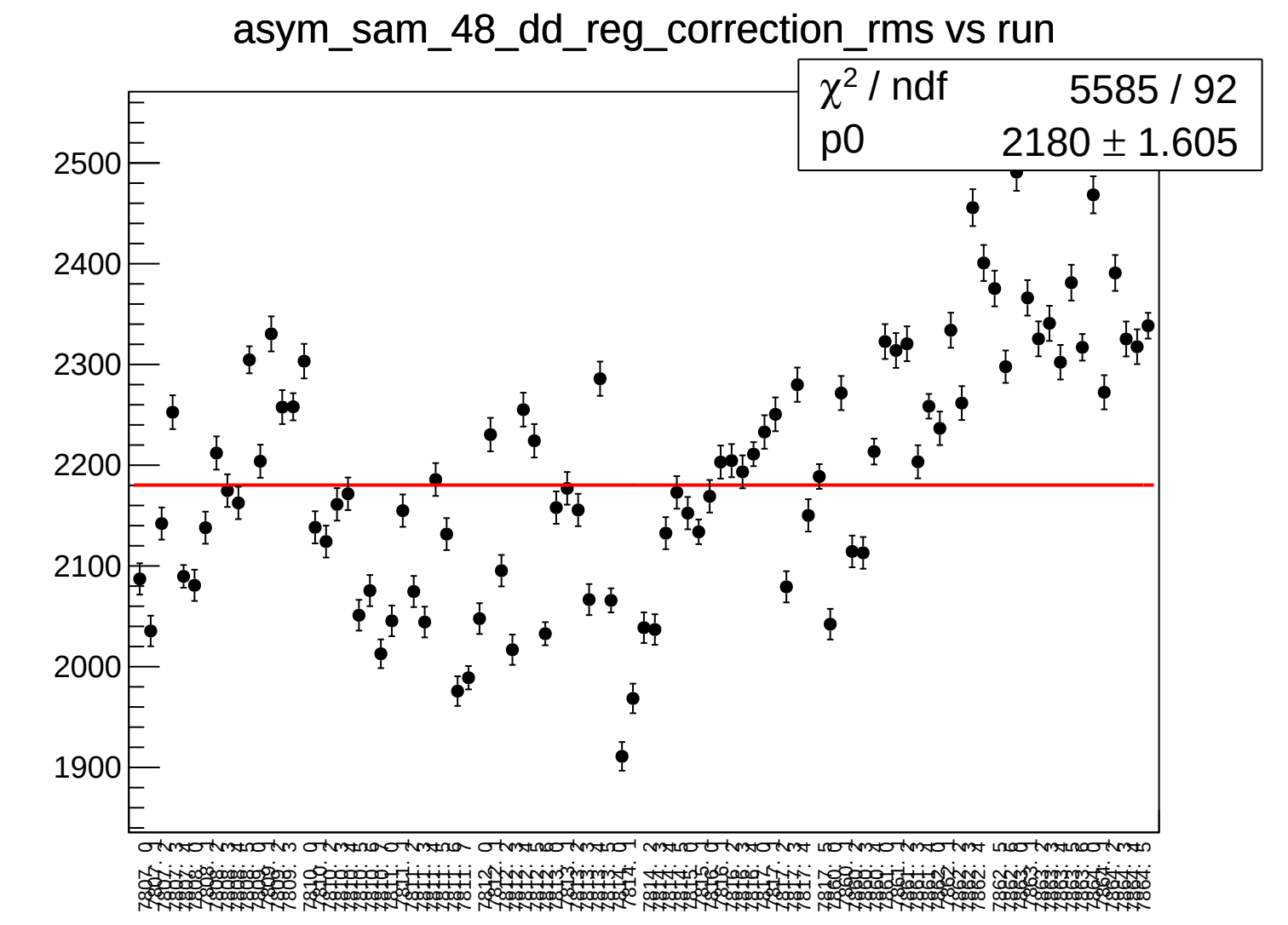

reg_asym_sam_48_dd_mean vs run
χ² / ndf 88.66 / 92
p0 52.59 ± 187.4
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean −472
Std Dev 0
2
1
0
−1
−2

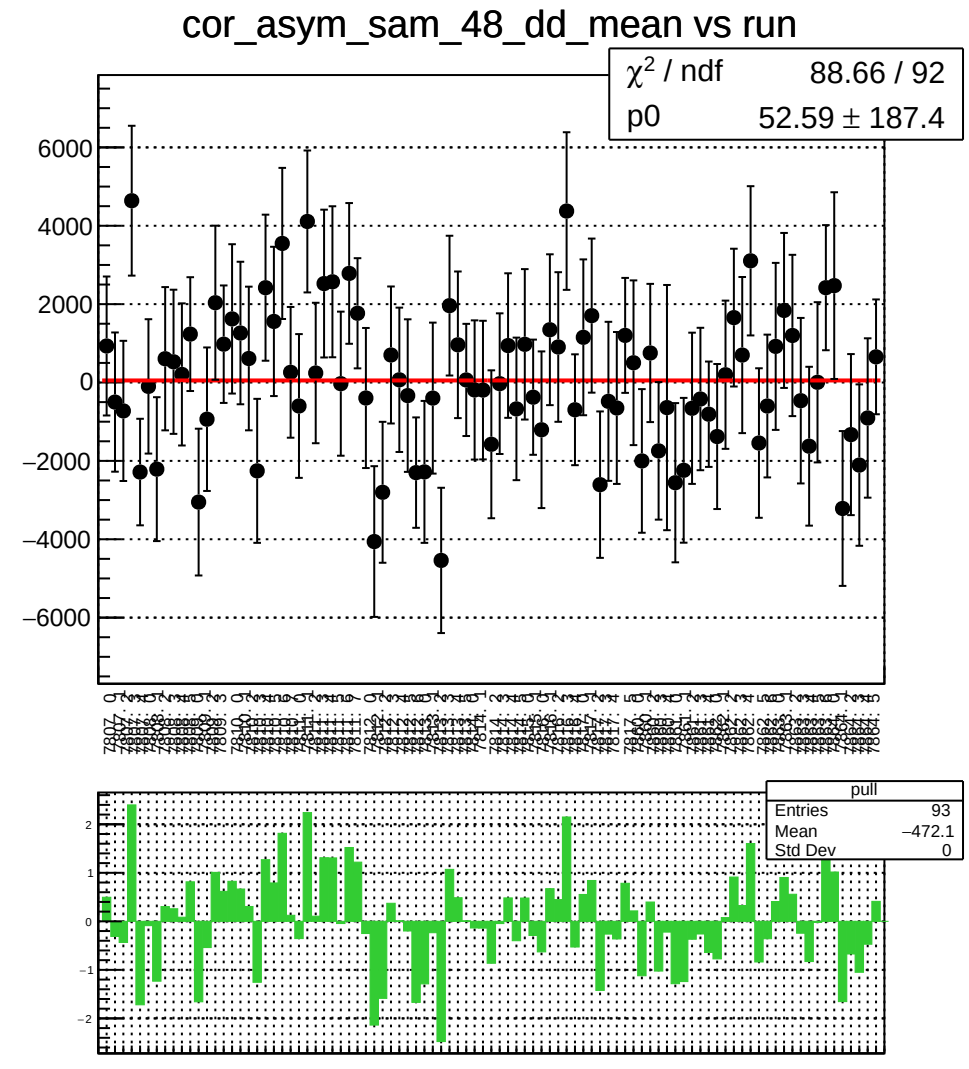

pull1D
Entries 93
Mean 0.005586
Std Dev 0.9764
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

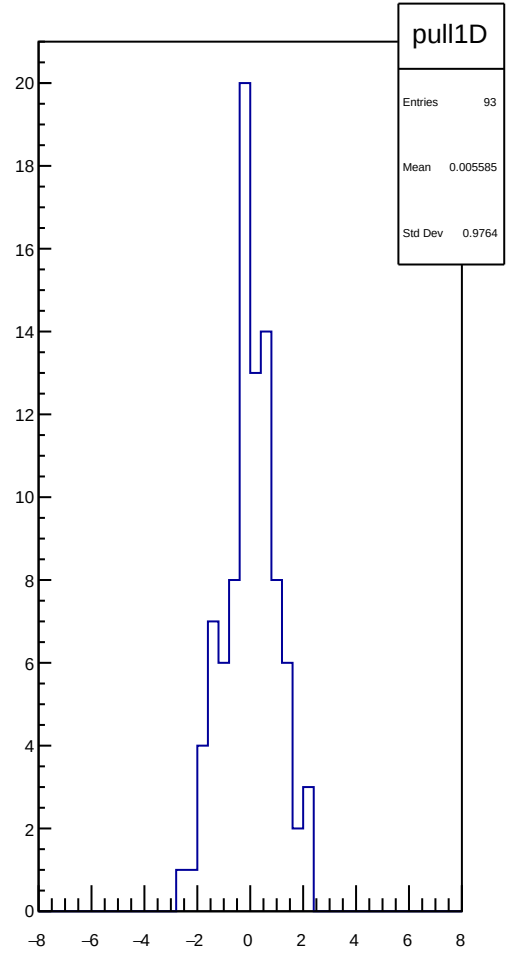

reg_asym_sam_48_dd_rms vs run
χ² / ndf 1.341e+04 / 92
p0 179.7 ± 0.1325
400
350
300
250
200
150

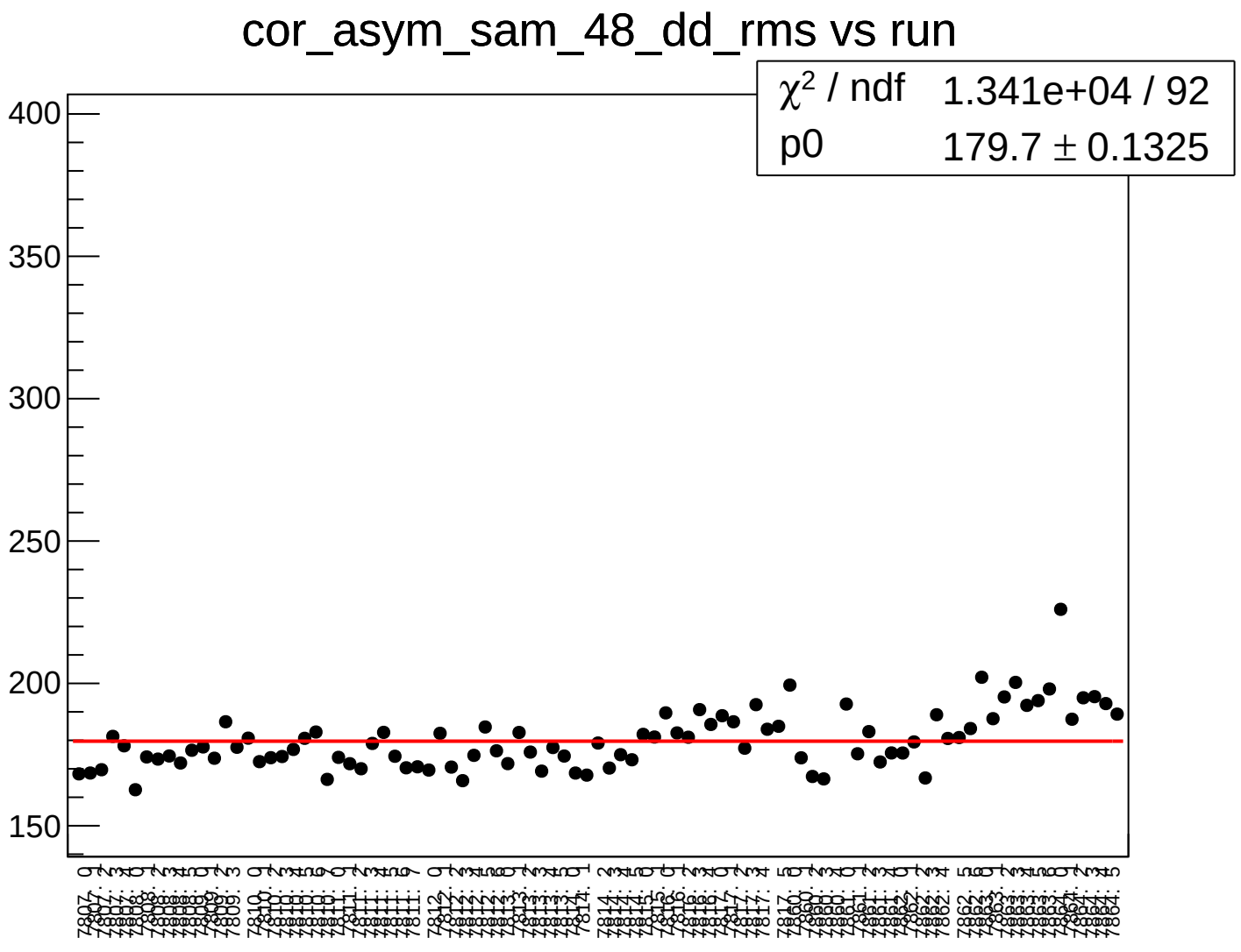

asym_sam_48_dd_reg_correction_mean vs run
×10^3
χ² / ndf 81.94 / 92
p0 −1276 ± 2269
pull
Entries 93
Mean −43.55
Std Dev 0

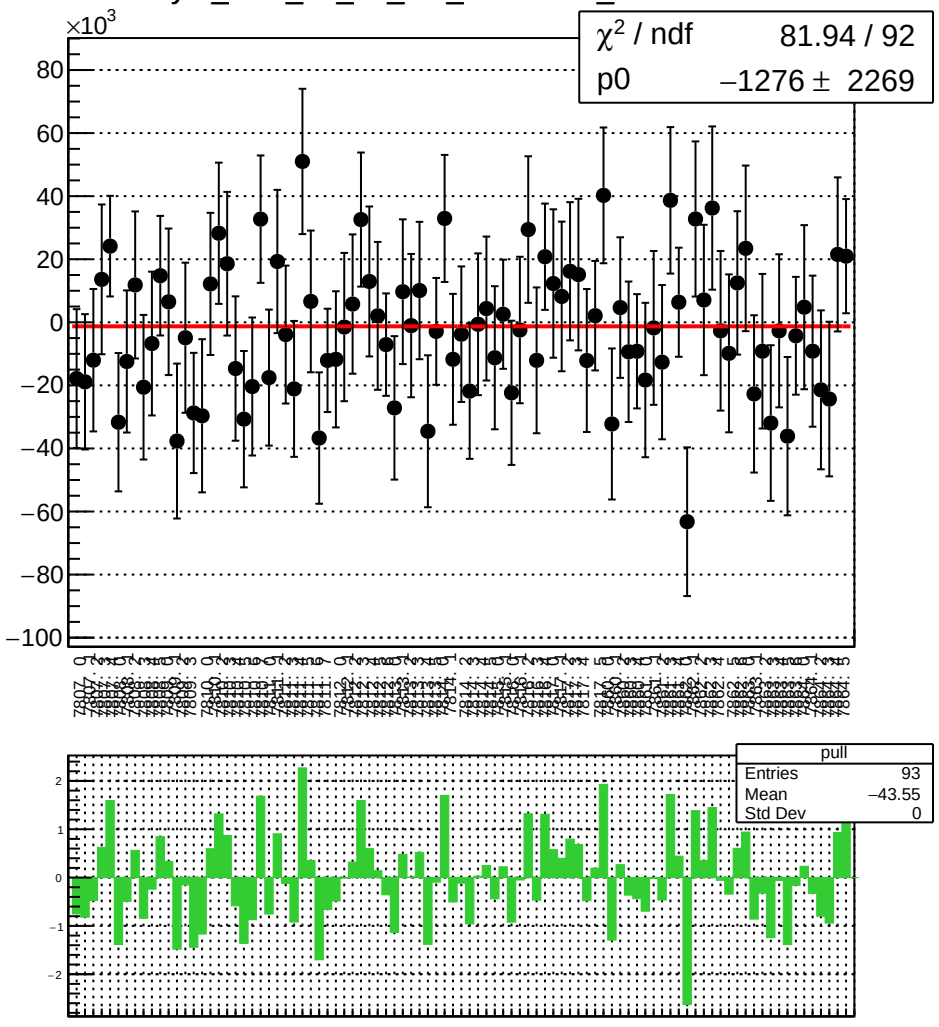

pull1D
Entries 93
Mean −0.01549
Std Dev 0.9386

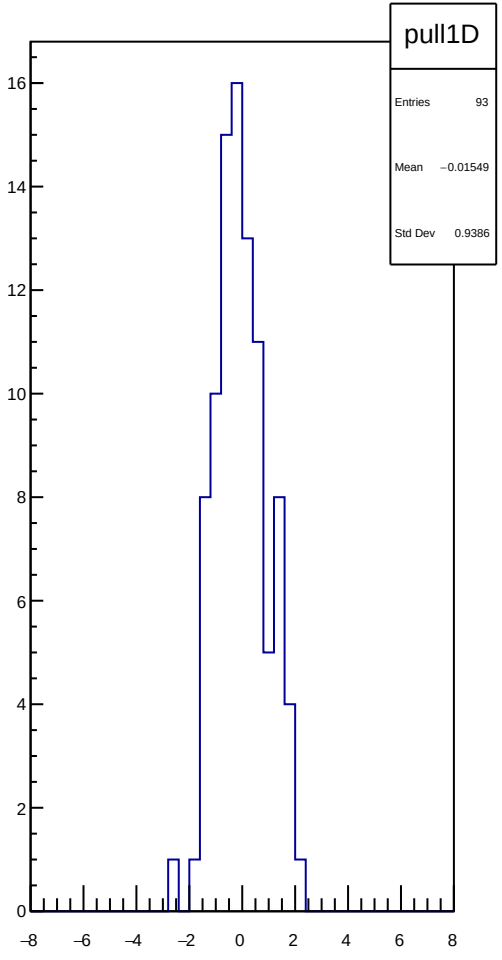

asym_sam_48_dd_reg_correction_rms vs run
χ² / ndf 5585 / 92
p0 2180 ± 1.605
2500
2400
2300
2200
2100
2000
1900

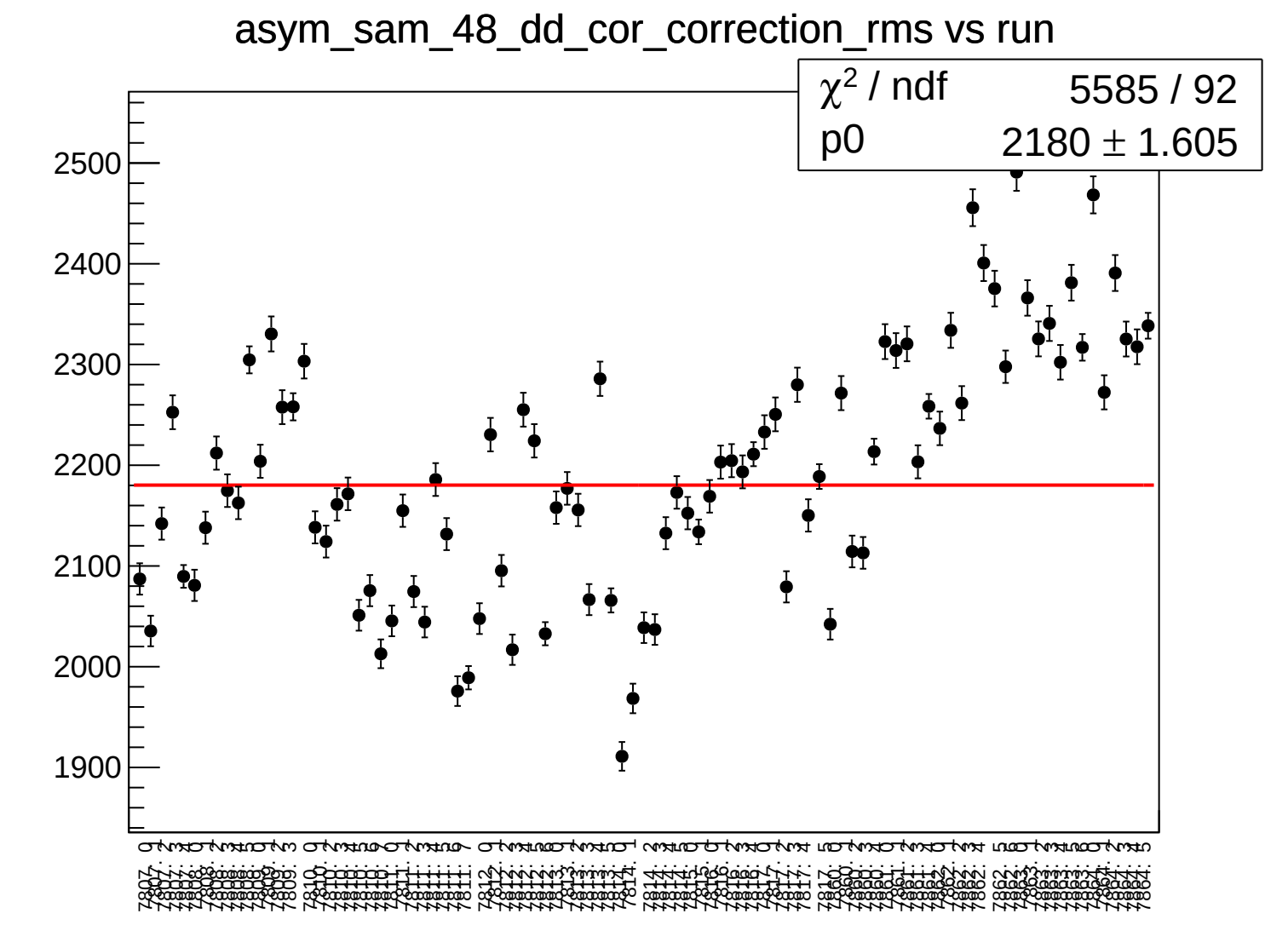

cor_asym_sam_48_dd_mean vs run
χ² / ndf 88.66 / 92
p0 52.59 ± 187.4
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean −472.1
Std Dev 0
2
1
0
−1
−2

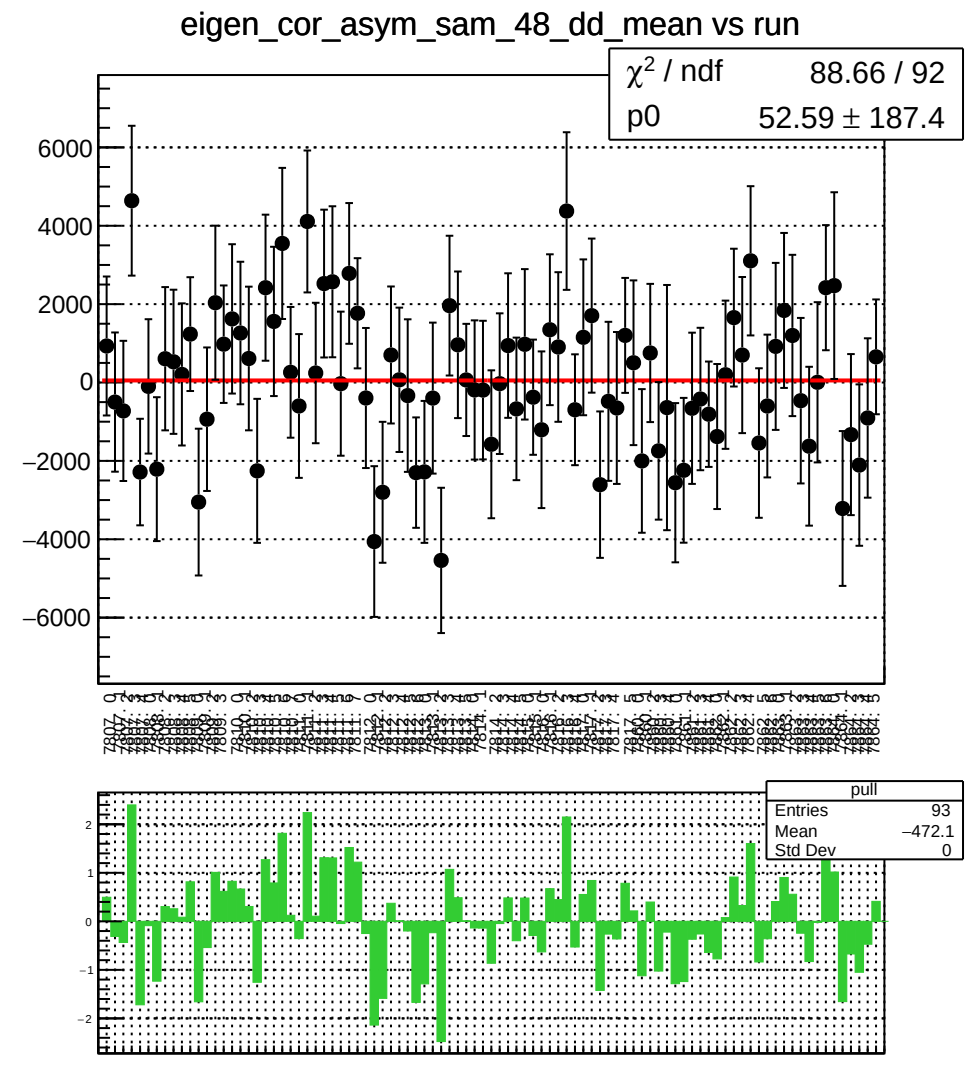

pull1D
Entries 93
Mean 0.005585
Std Dev 0.9764
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

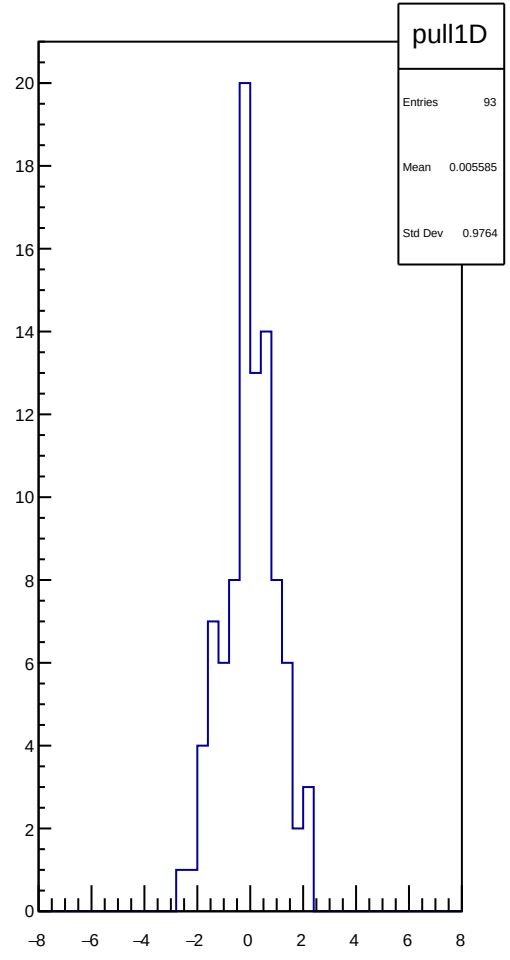

cor_asym_sam_48_dd_rms vs run
χ² / ndf 1.341e+04 / 92
p0 179.7 ± 0.1325
400
350
300
250
200
150

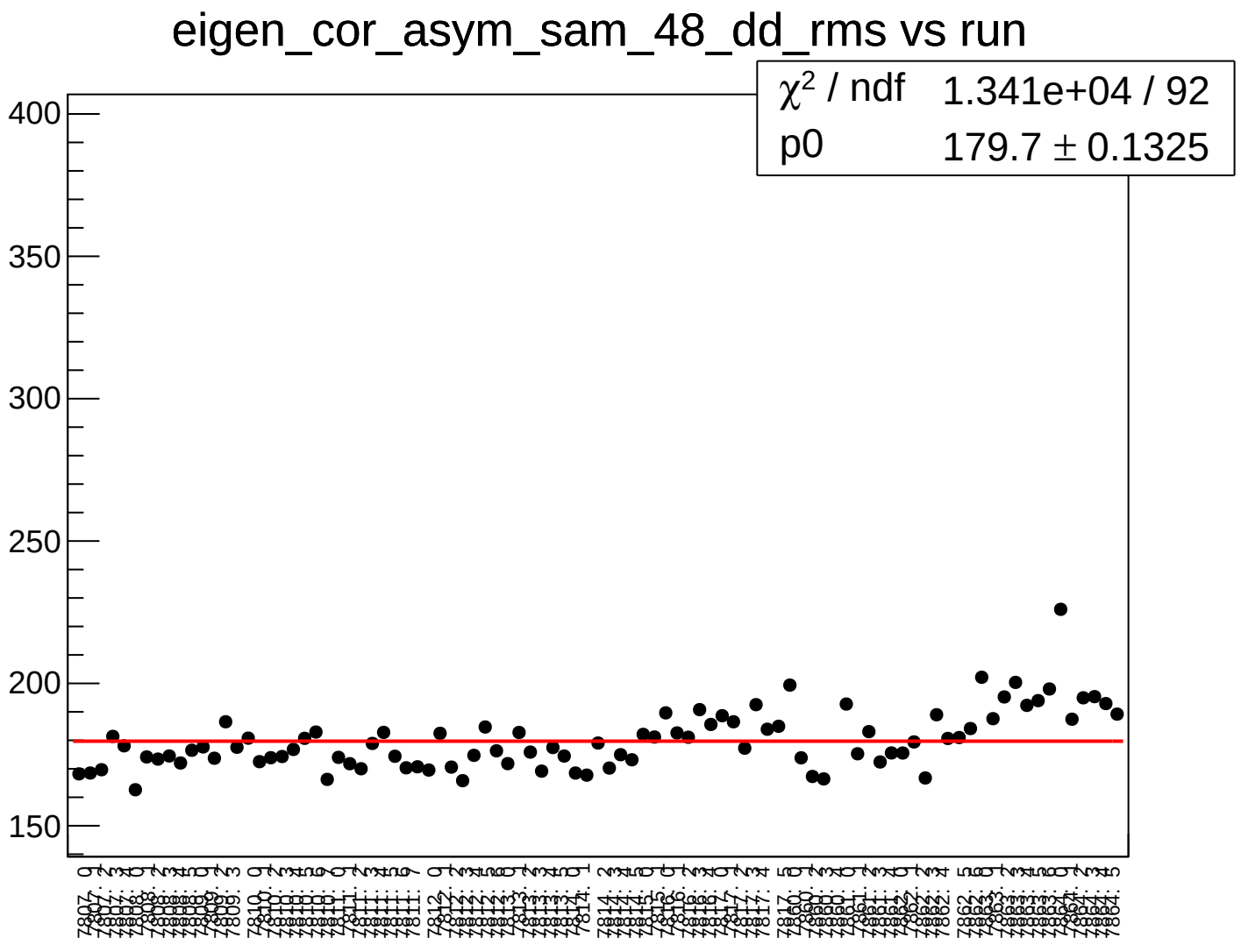

asym_sam_48_dd_cor_correction_mean vs run
×10^3
χ² / ndf 81.94 / 92
p0 −1276 ± 2269
pull
Entries 93
Mean −43.55
Std Dev 0

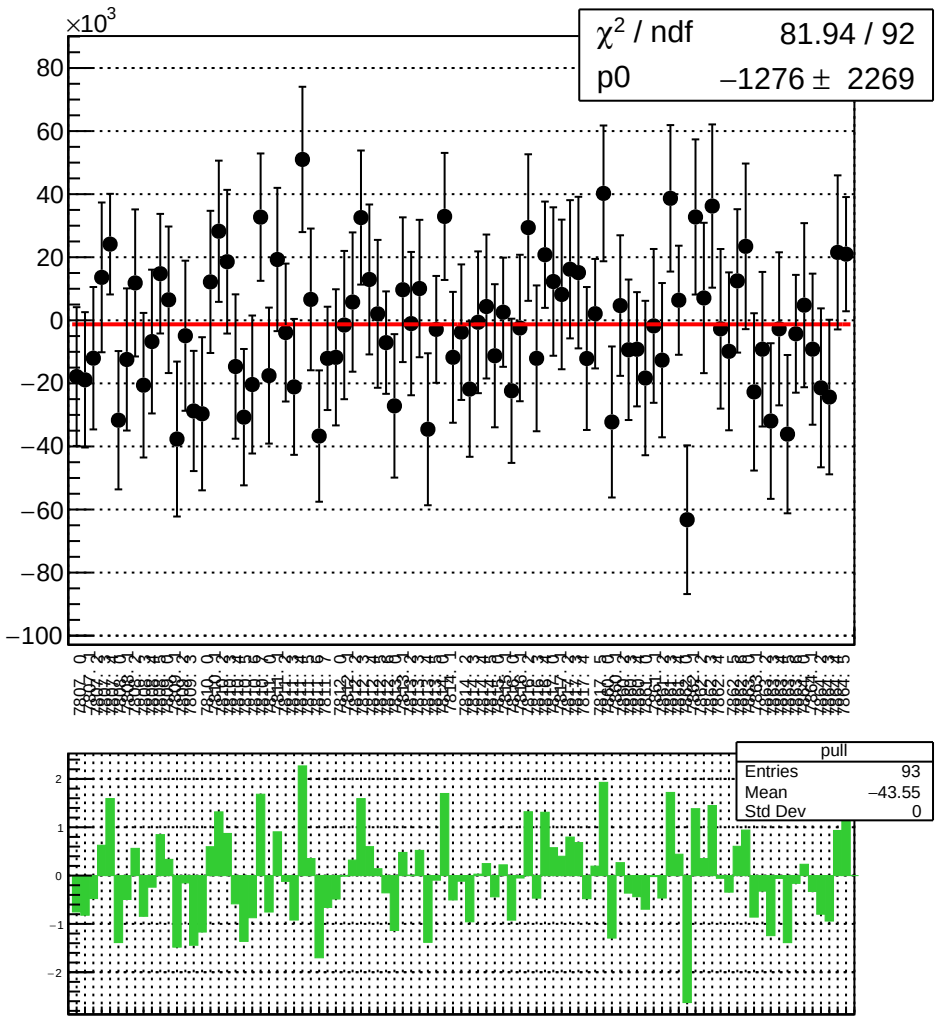

pull1D
Entries 93
Mean −0.01549
Std Dev 0.9386

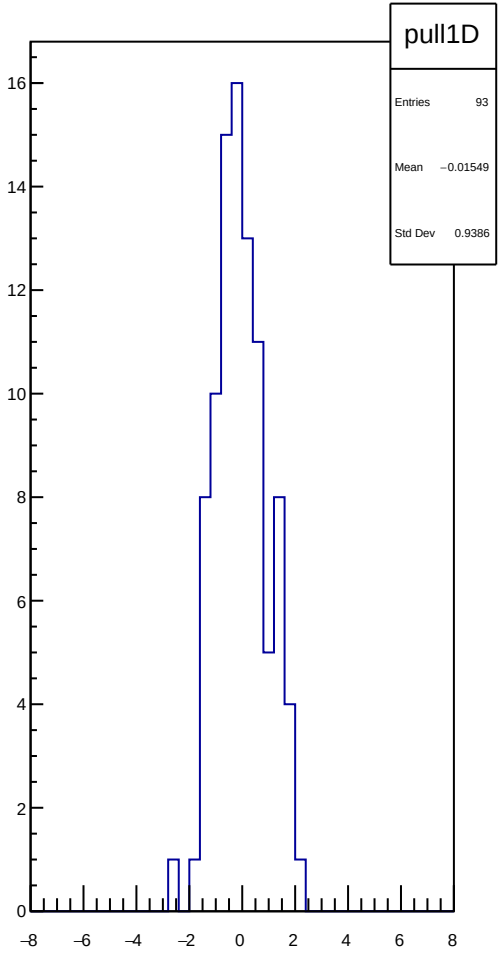

asym_sam_48_dd_cor_correction_rms vs run
χ² / ndf 5585 / 92
p0 2180 ± 1.605
2500
2400
2300
2200
2100
2000
1900

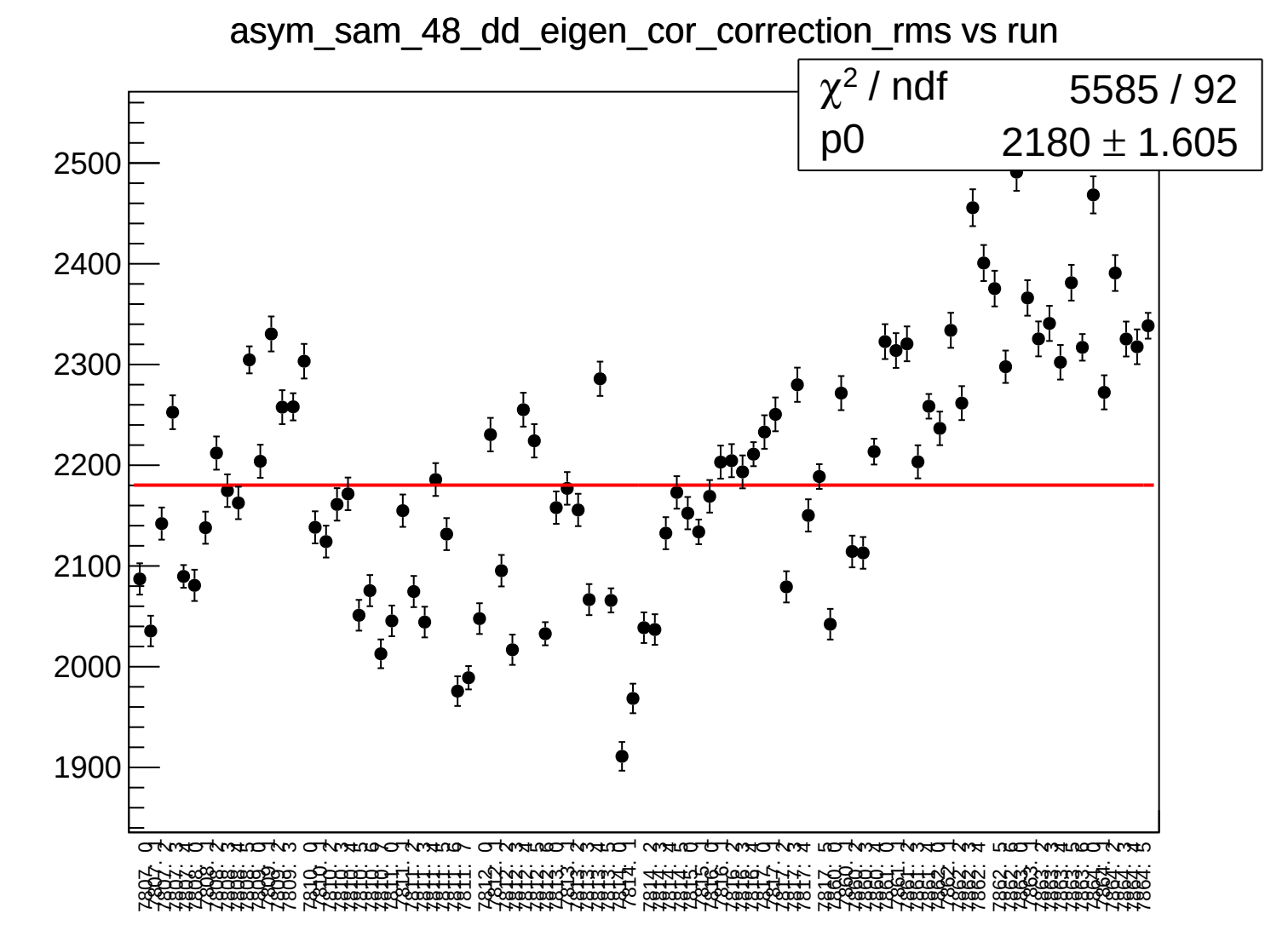

eigen_cor_asym_sam_48_dd_mean vs run
χ² / ndf 88.66 / 92
p0 52.59 ± 187.4
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean −472.1
Std Dev 0
2
1
0
−1
−2

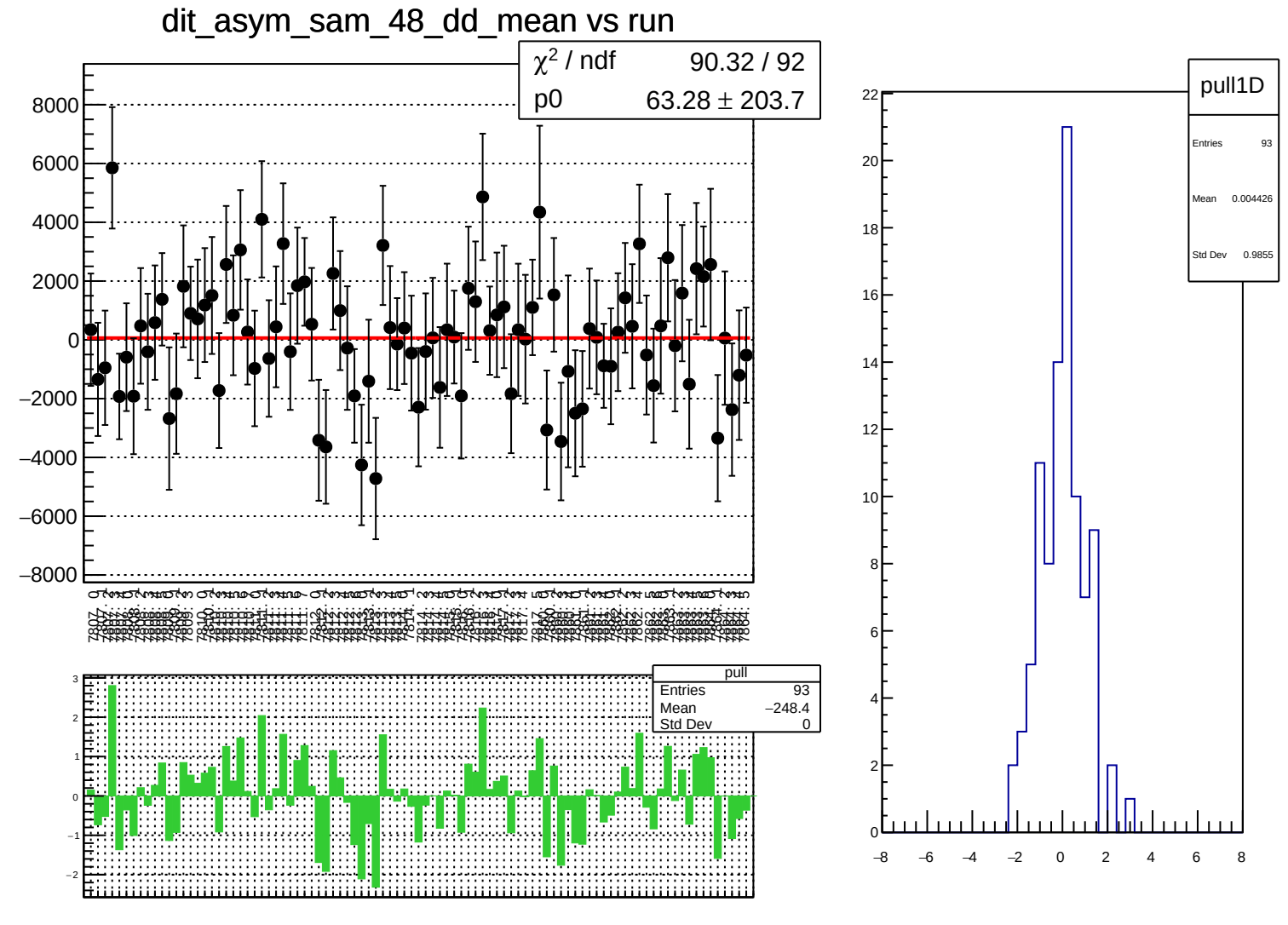

pull1D
Entries 93
Mean 0.005585
Std Dev 0.9764
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

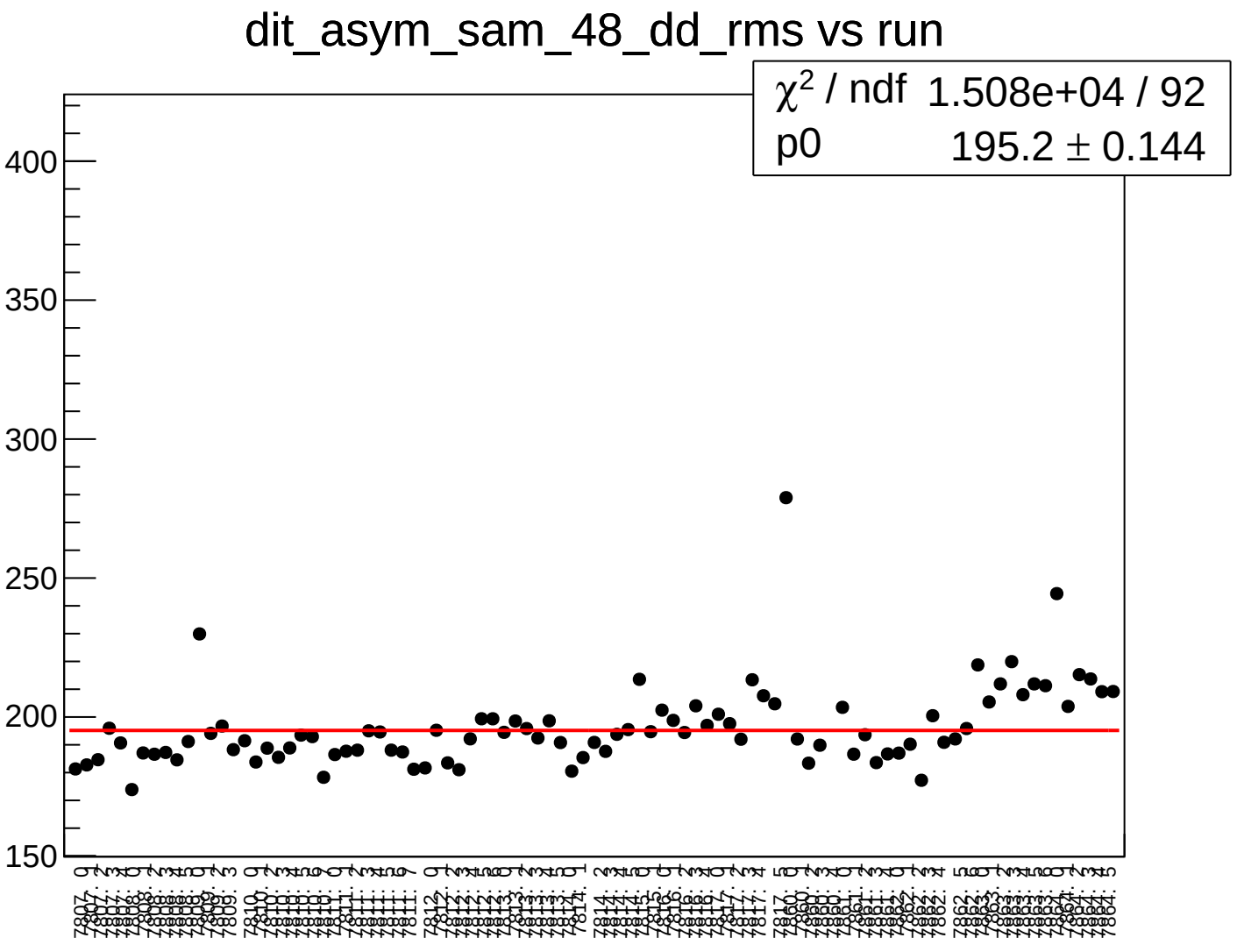

eigen_cor_asym_sam_48_dd_rms vs run
χ² / ndf 1.341e+04 / 92
p0 179.7 ± 0.1325
400
350
300
250
200
150

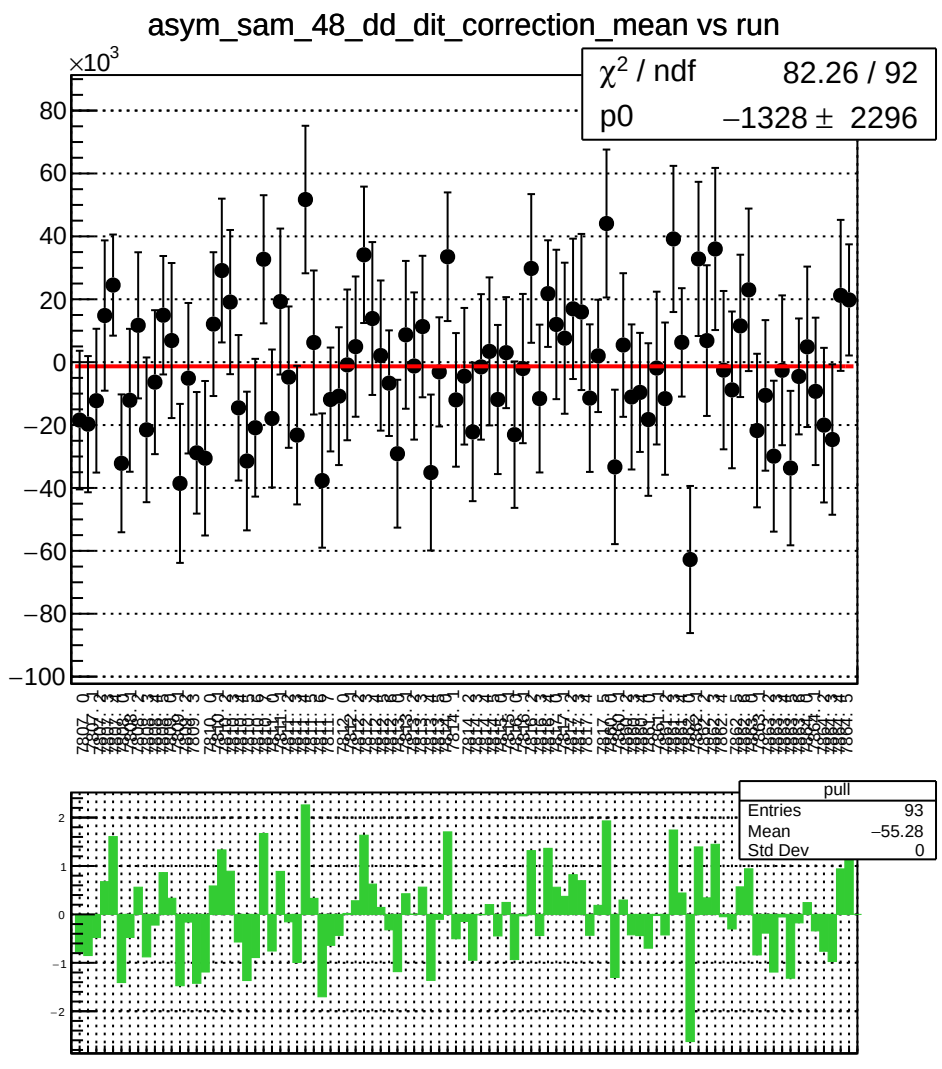

asym_sam_48_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 81.94 / 92
p0 −1276 ± 2269
pull
Entries 93
Mean −43.55
Std Dev 0

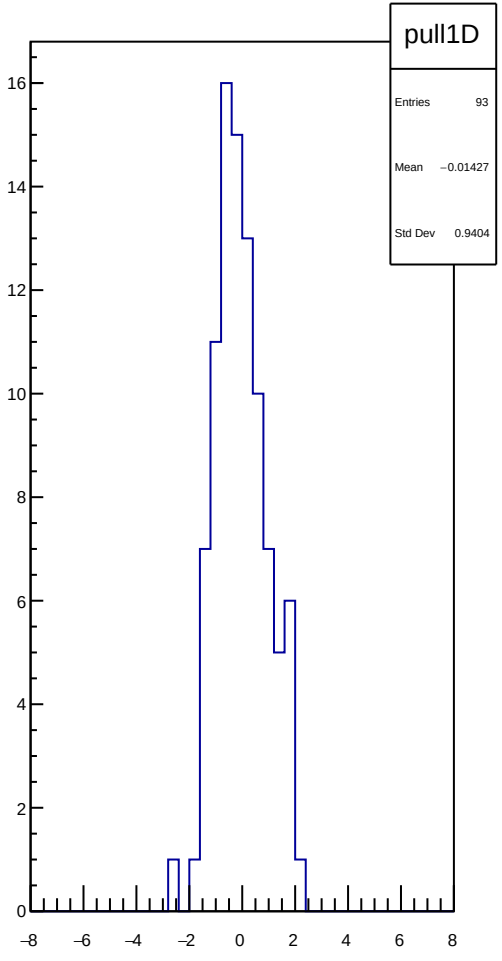

pull1D
Entries 93
Mean −0.01549
Std Dev 0.9386

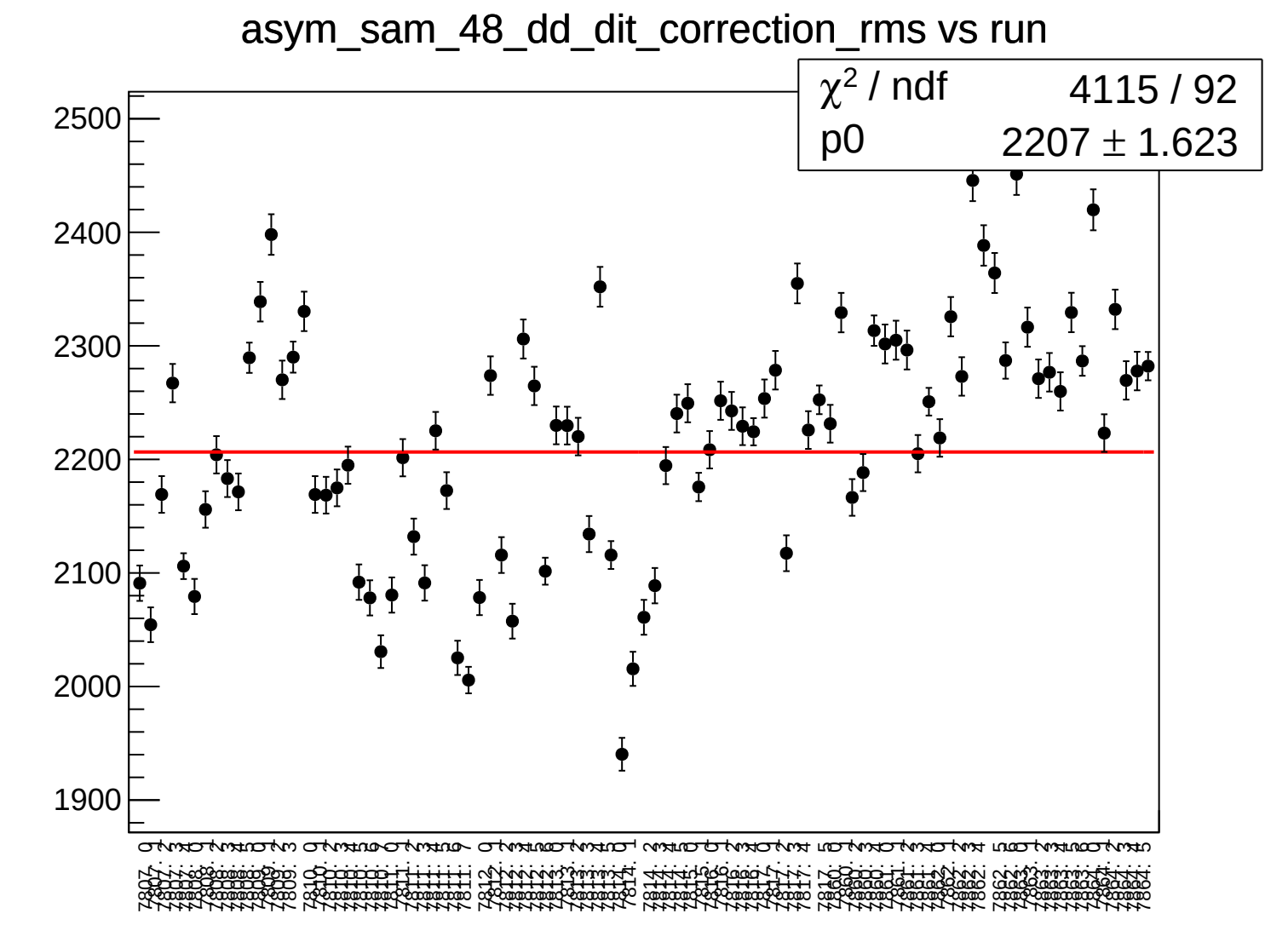

asym_sam_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 5585 / 92
p0 2180 ± 1.605
2500
2400
2300
2200
2100
2000
1900

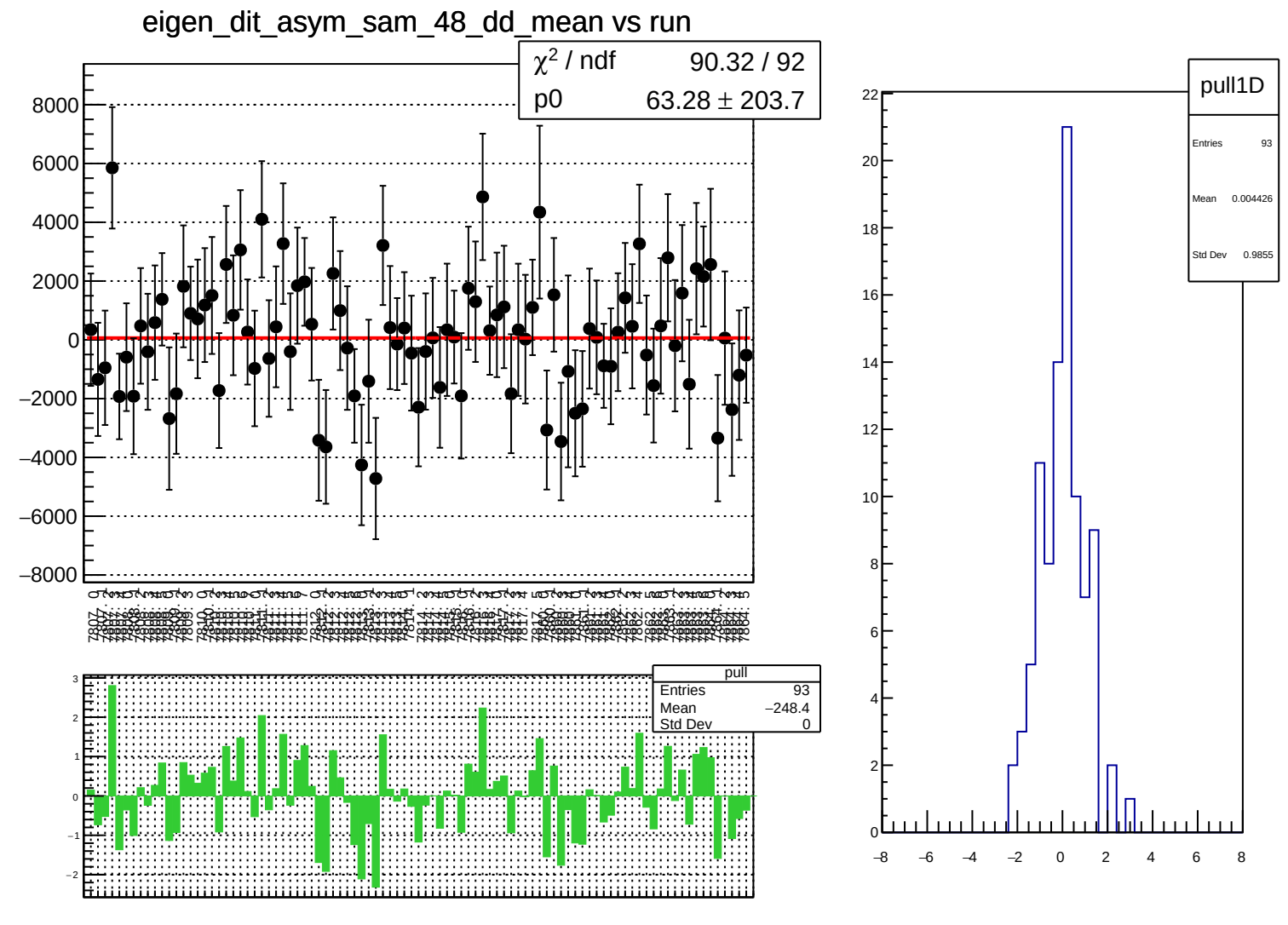

dit_asym_sam_48_dd_mean vs run
χ² / ndf 90.32 / 92
p0 63.28 ± 203.7
pull
Entries 93
Mean −248.4
Std Dev 0
pull1D
Entries 93
Mean 0.004426
Std Dev 0.9855

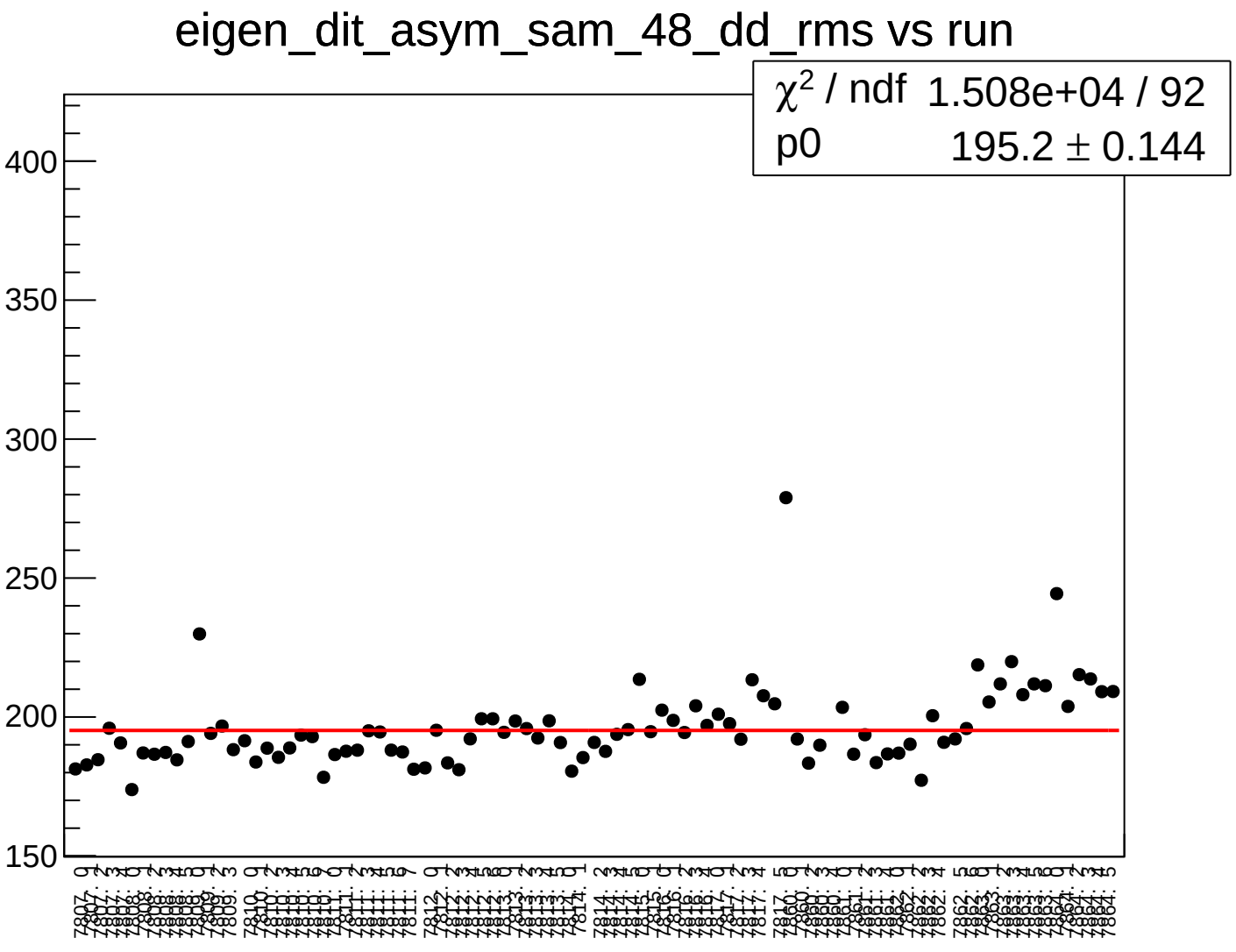

dit_asym_sam_48_dd_rms vs run
χ² / ndf 1.508e+04 / 92
p0 195.2 ± 0.144
400
350
300
250
200
150

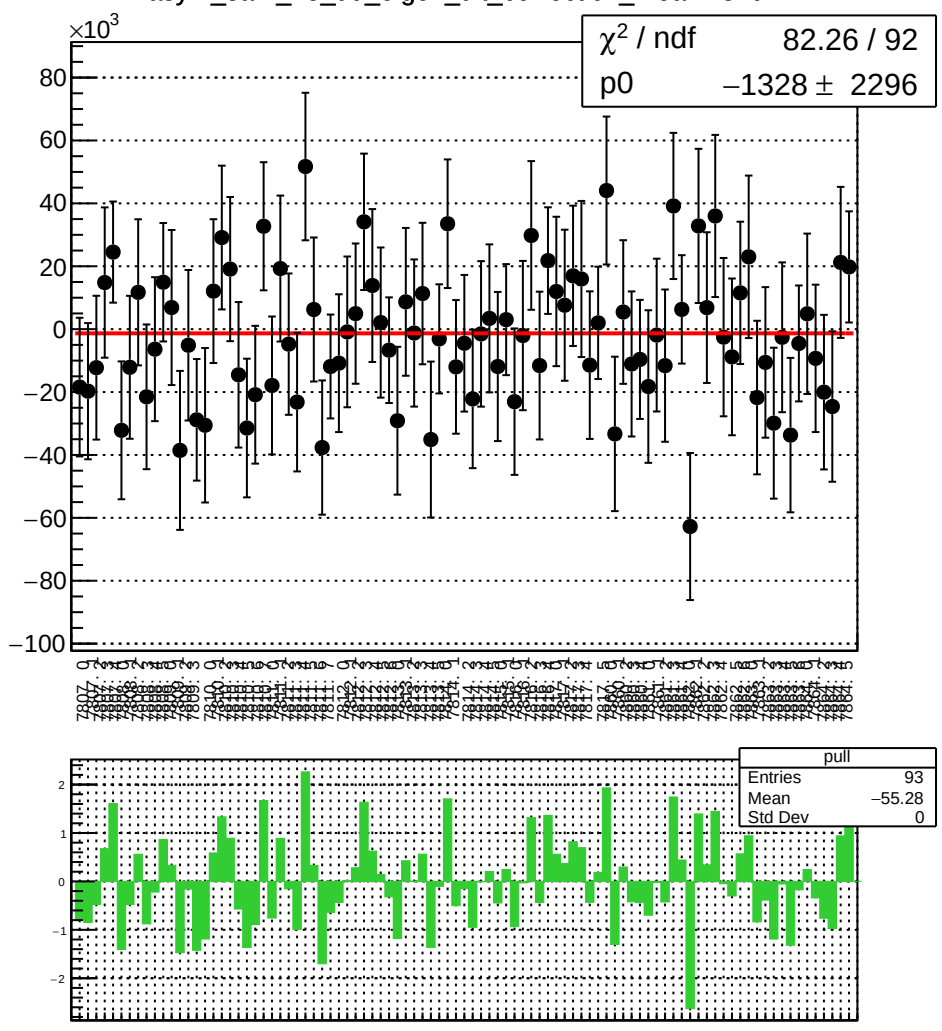

asym_sam_48_dd_dit_correction_mean vs run
×10^3
χ² / ndf 82.26 / 92
p0 −1328 ± 2296
pull
Entries 93
Mean −55.28
Std Dev 0

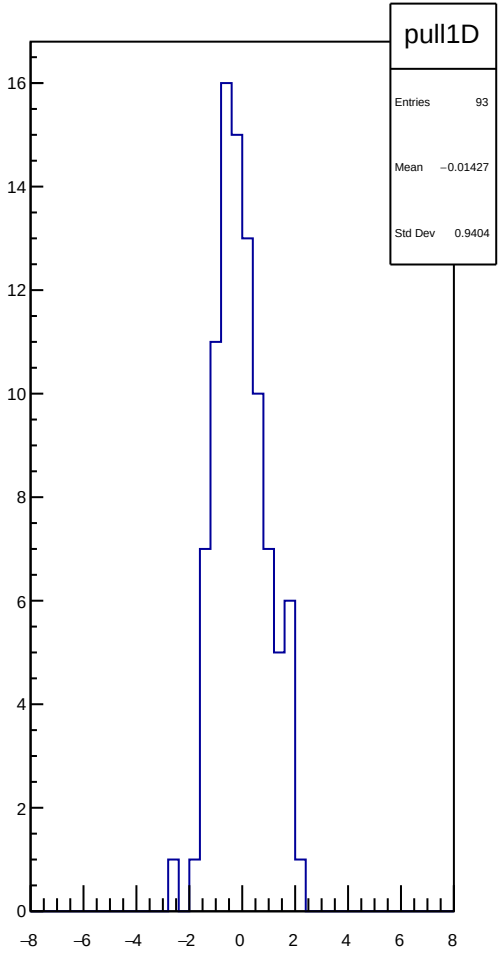

pull1D
Entries 93
Mean −0.01427
Std Dev 0.9404

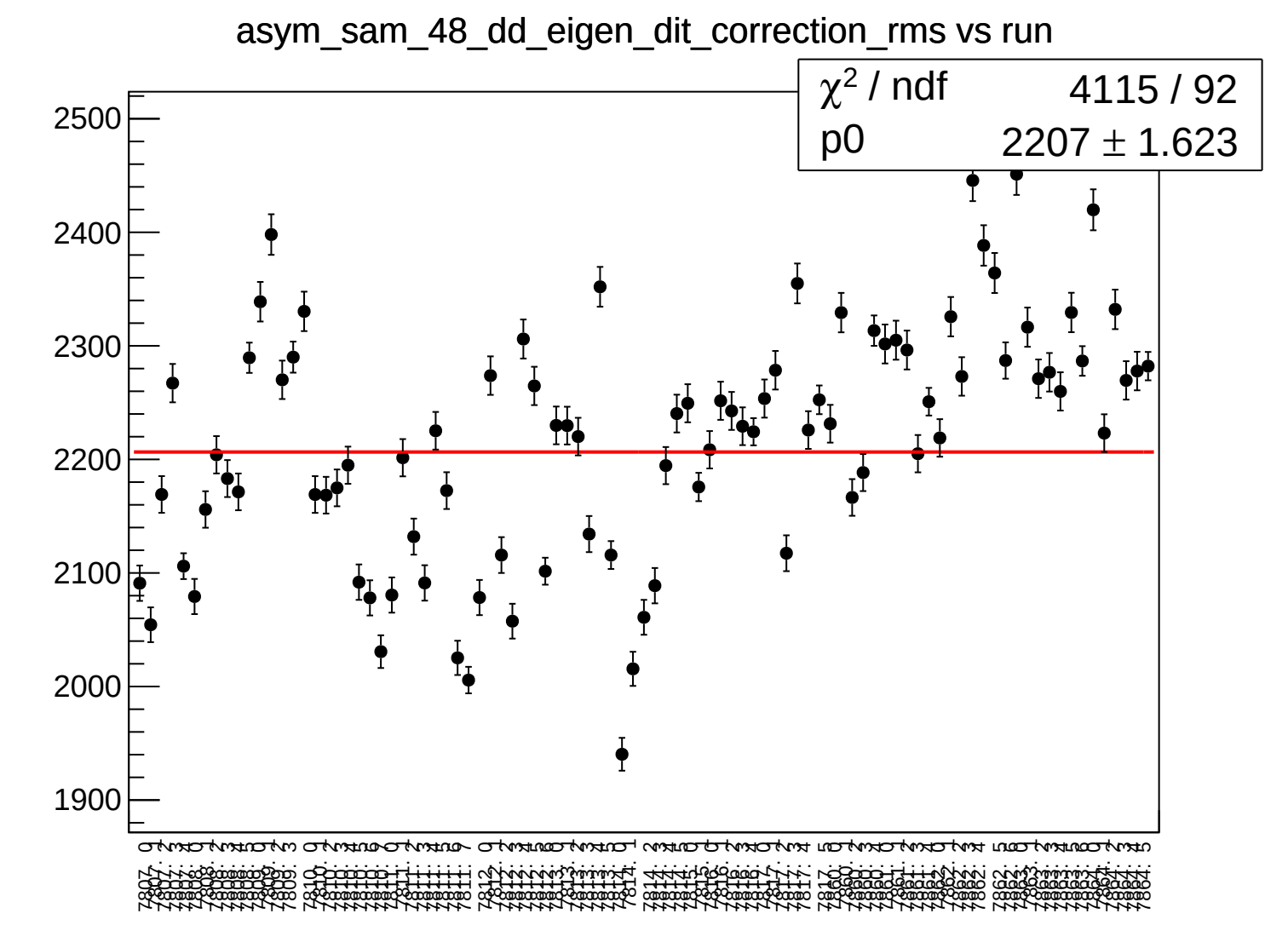

asym_sam_48_dd_dit_correction_rms vs run
χ² / ndf 4115 / 92
p0 2207 ± 1.623
2500
2400
2300
2200
2100
2000
1900

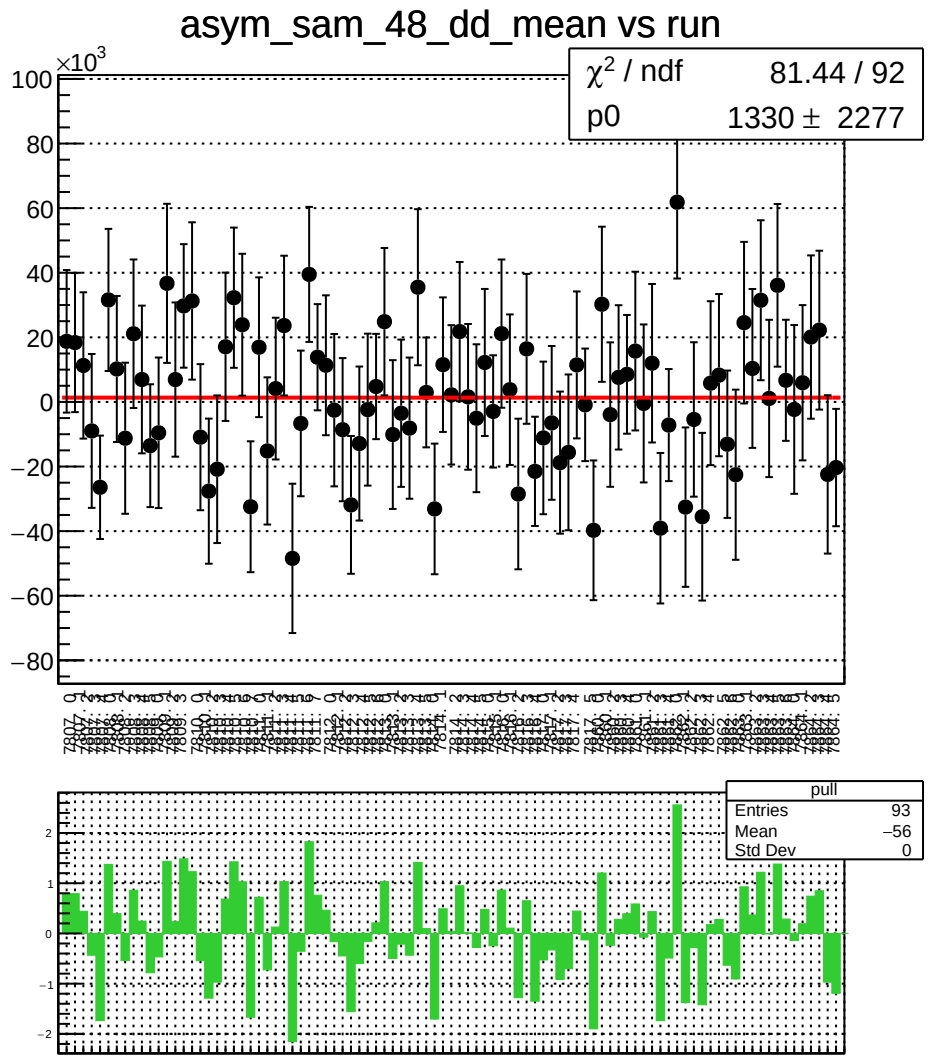

eigen_dit_asym_sam_48_dd_mean vs run
χ² / ndf 90.32 / 92
p0 63.28 ± 203.7
pull
Entries 93
Mean −248.4
Std Dev 0
pull1D
Entries 93
Mean 0.004426
Std Dev 0.9855

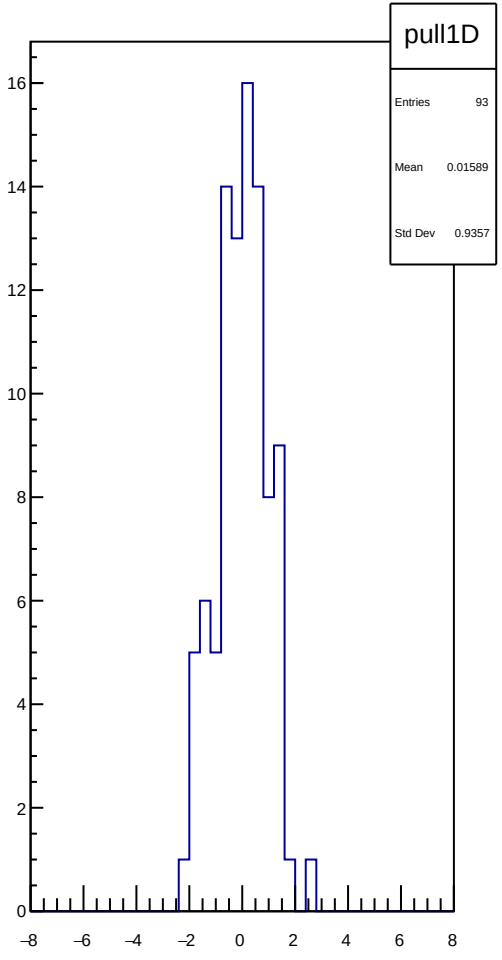

eigen_dit_asym_sam_48_dd_rms vs run
χ² / ndf 1.508e+04 / 92
p0 195.2 ± 0.144
400
350
300
250
200
150

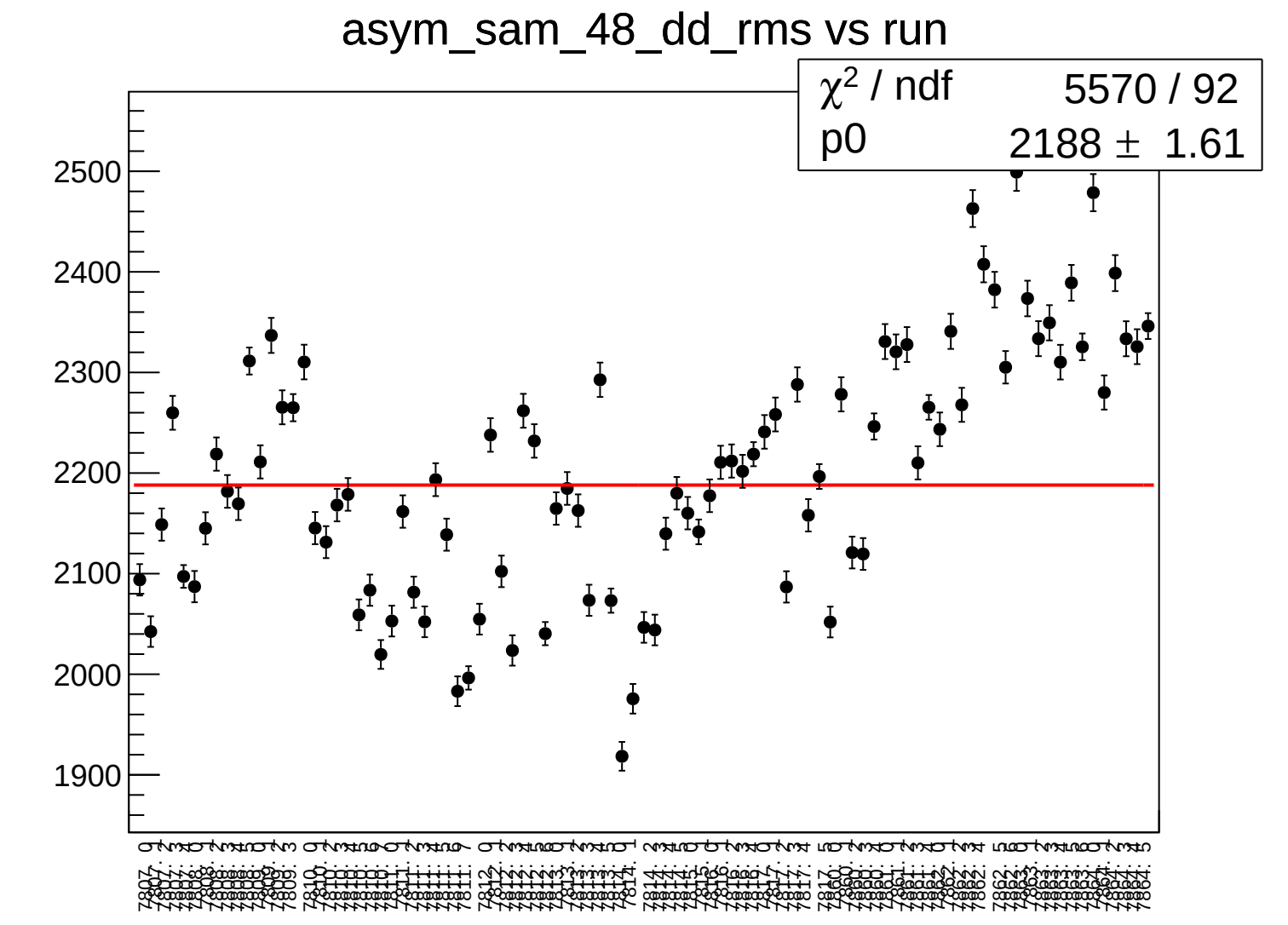

asym_sam_48_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 82.26 / 92
p0 −1328 ± 2296
pull
Entries 93
Mean −55.28
Std Dev 0

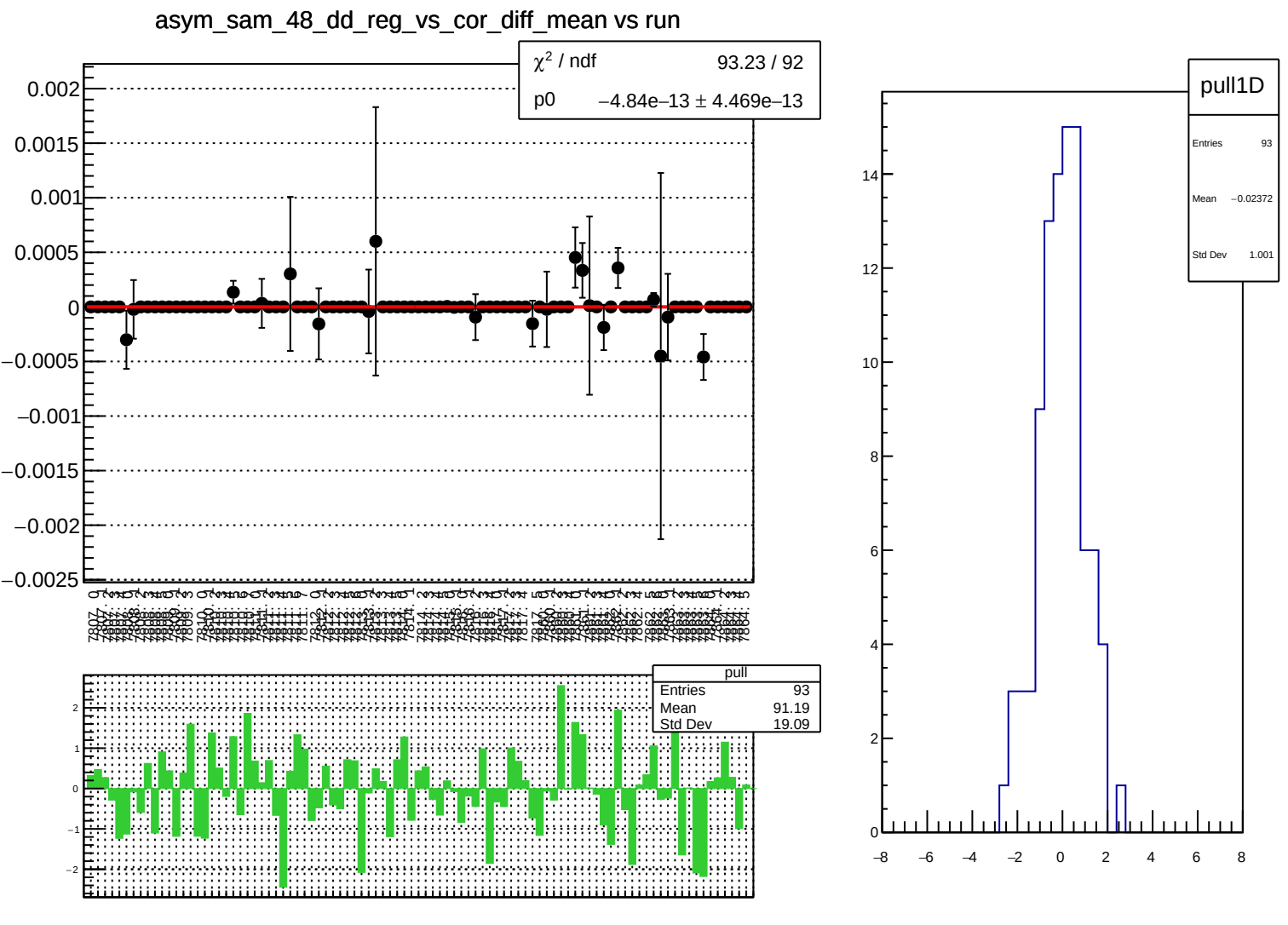

pull1D
Entries 93
Mean −0.01427
Std Dev 0.9404

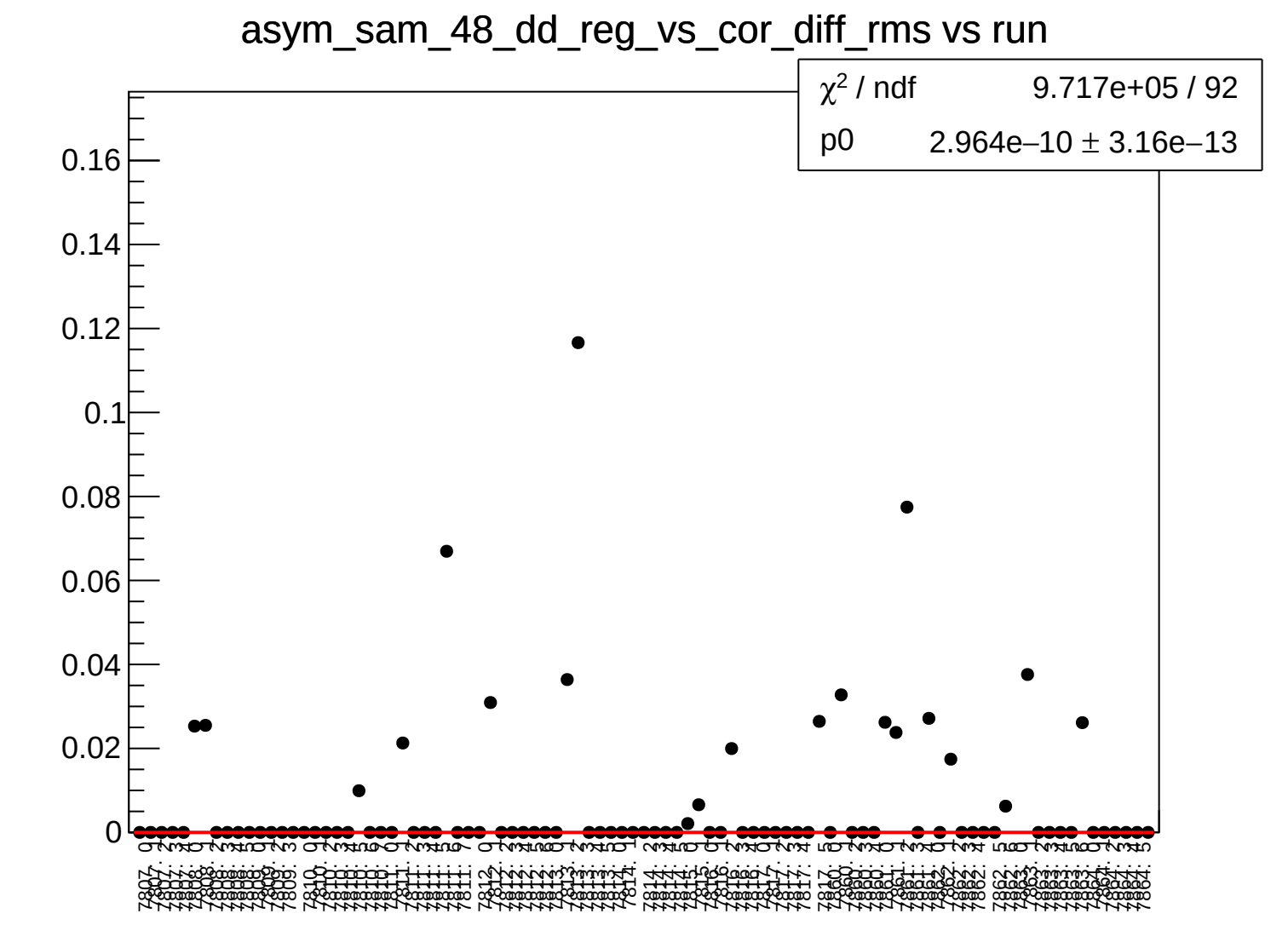

asym_sam_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 4115 / 92
p0 2207 ± 1.623
2500
2400
2300
2200
2100
2000
1900

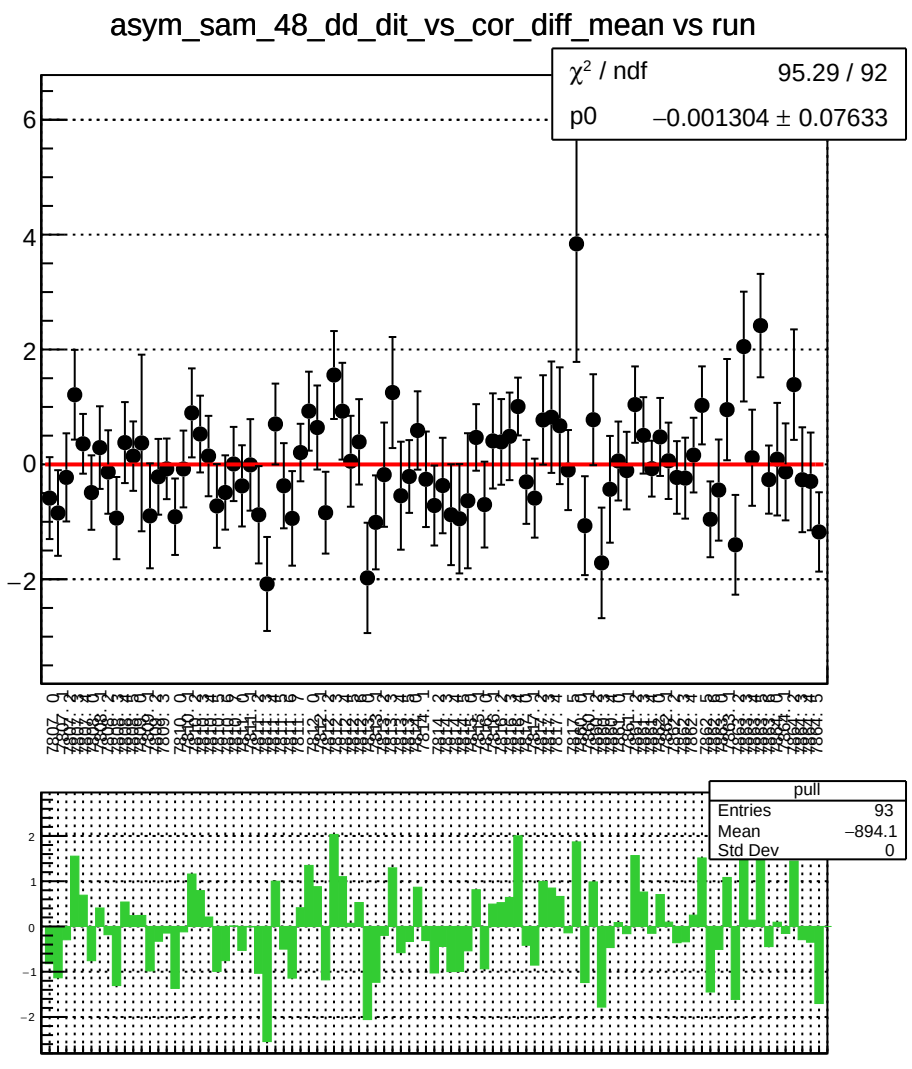

asym_sam_48_dd_mean vs run
×10^3
χ^2 / ndf 81.44 / 92
p0 1330 ± 2277
pull
Entries 93
Mean −56
Std Dev 0

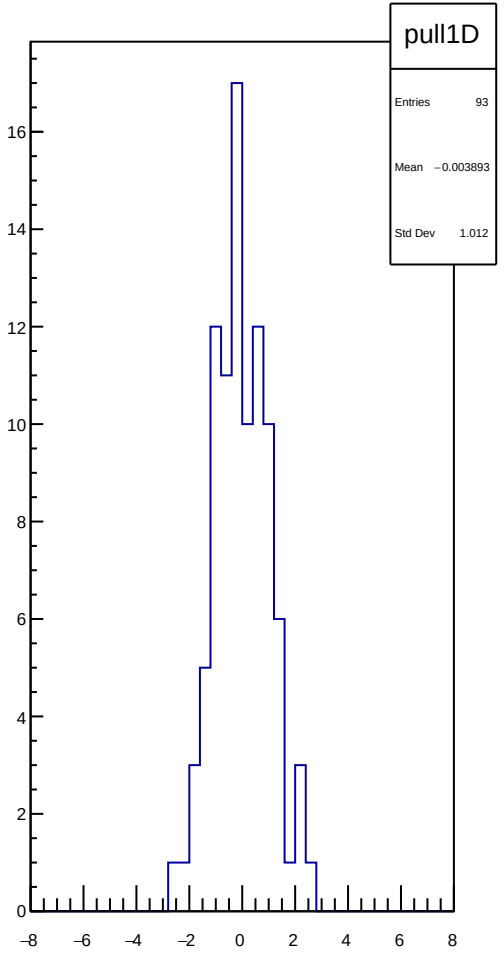

pull1D
Entries 93
Mean 0.01589
Std Dev 0.9357

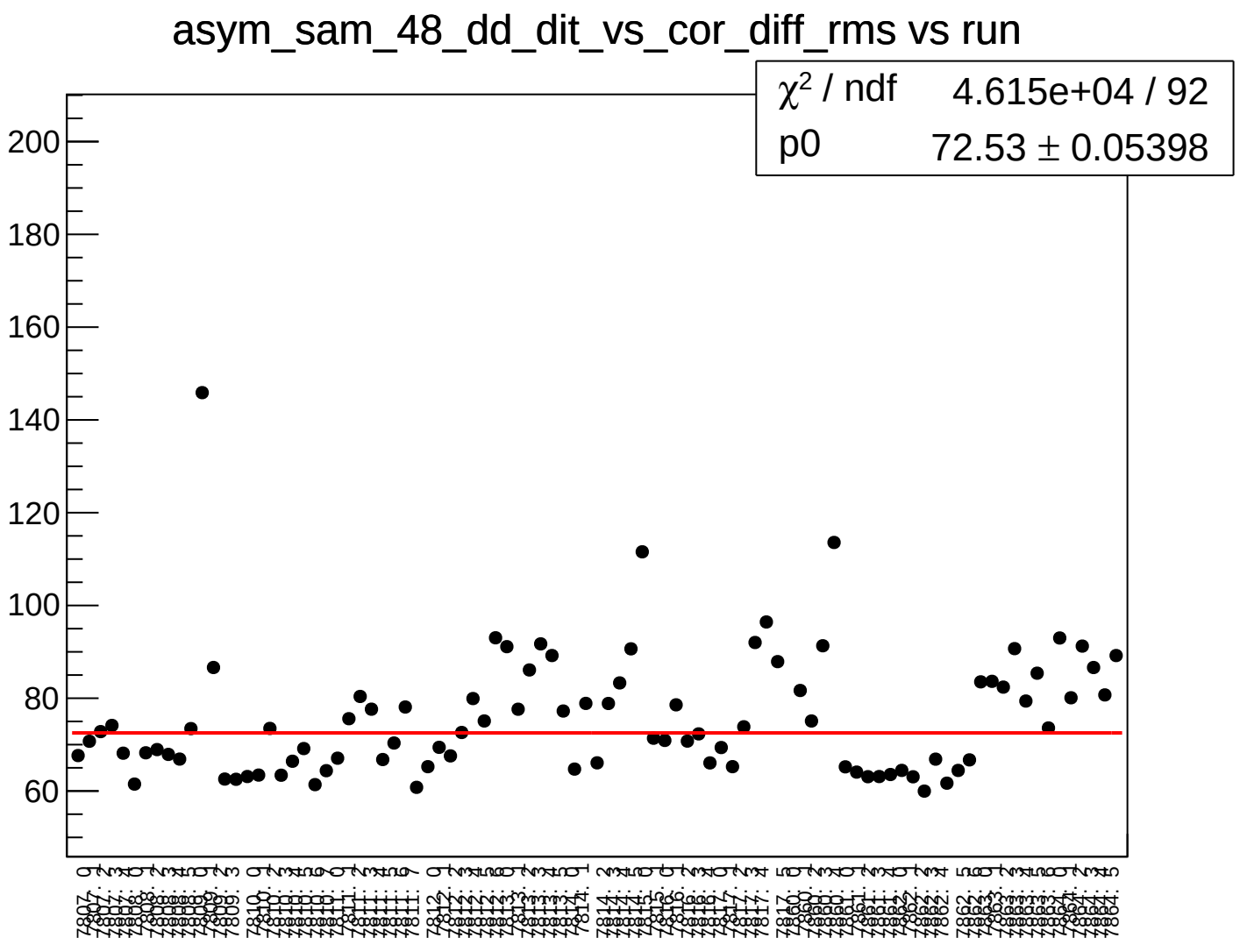

asym_sam_48_dd_rms vs run
χ² / ndf 5570 / 92
p0 2188 ± 1.61
2500
2400
2300
2200
2100
2000
1900

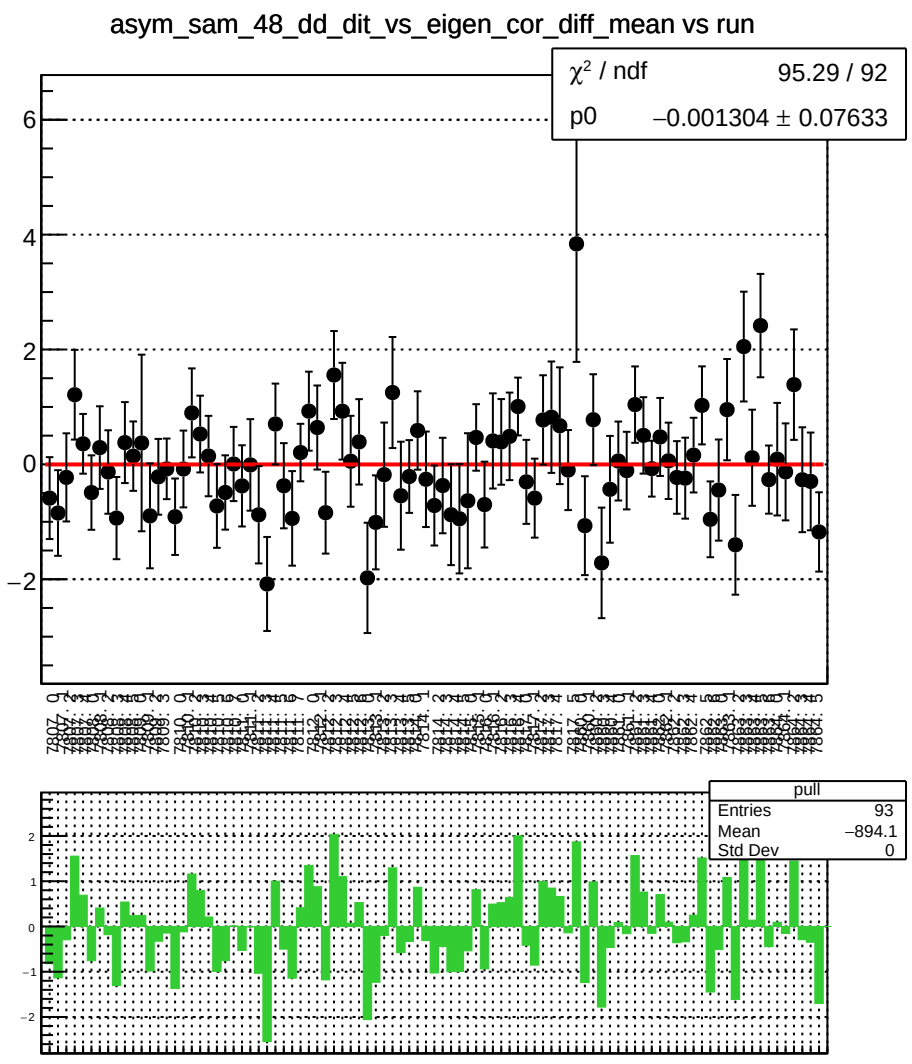

asym_sam_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 93.23 / 92
p0 −4.84e−13 ± 4.469e−13
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
−0.0025
pull
Entries 93
Mean 91.19
Std Dev 19.09
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.02372
Std Dev 1.001
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

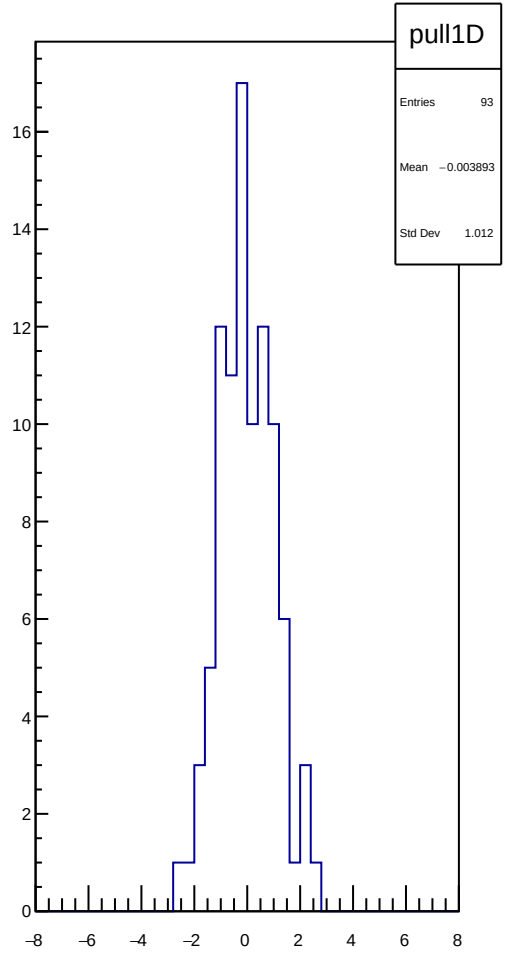

asym_sam_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.717e+05 / 92
p0 2.964e−10 ± 3.16e−13
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

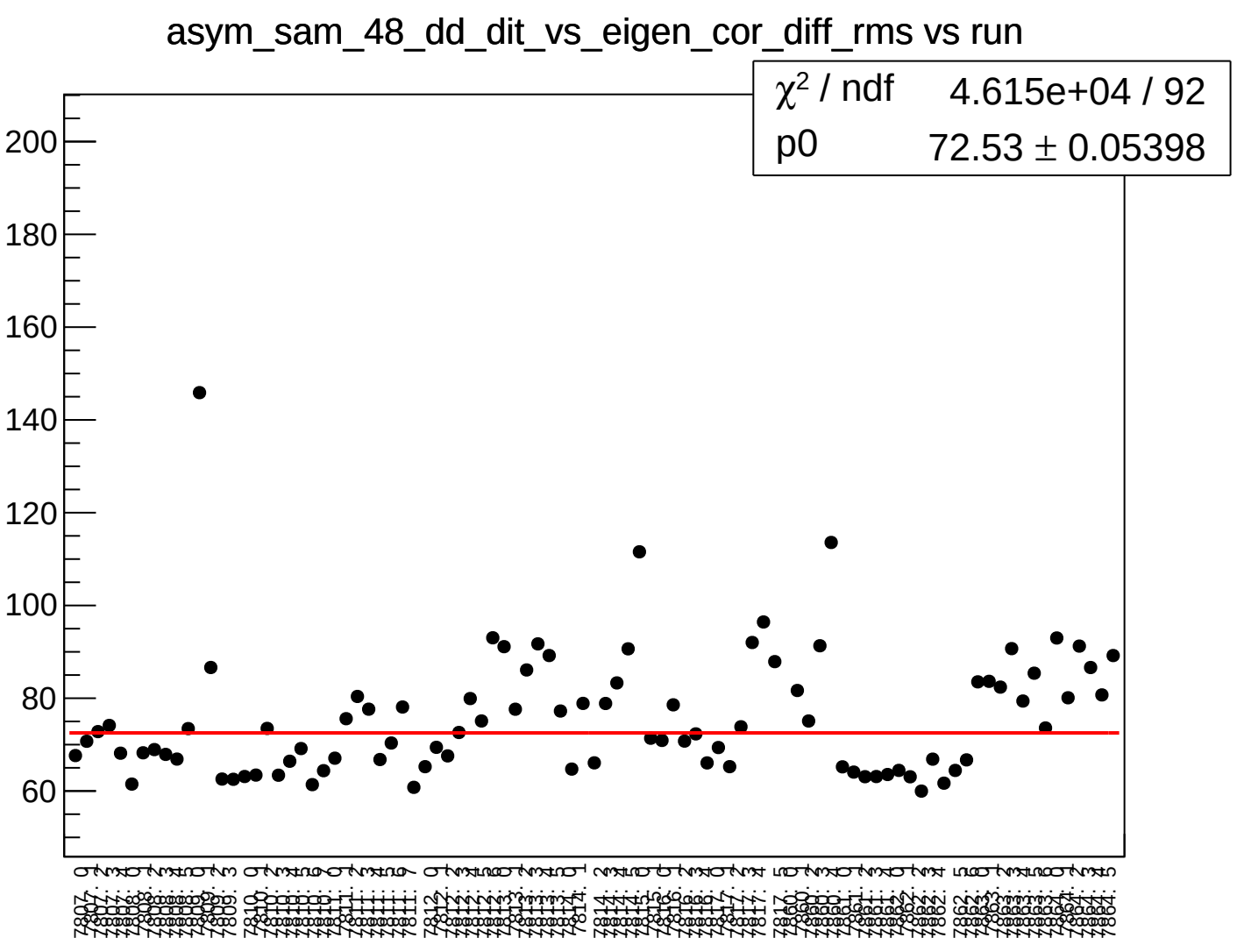

asym_sam_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 95.29 / 92
p0 −0.001304 ± 0.07633
pull
Entries 93
Mean −894.1
Std Dev 0

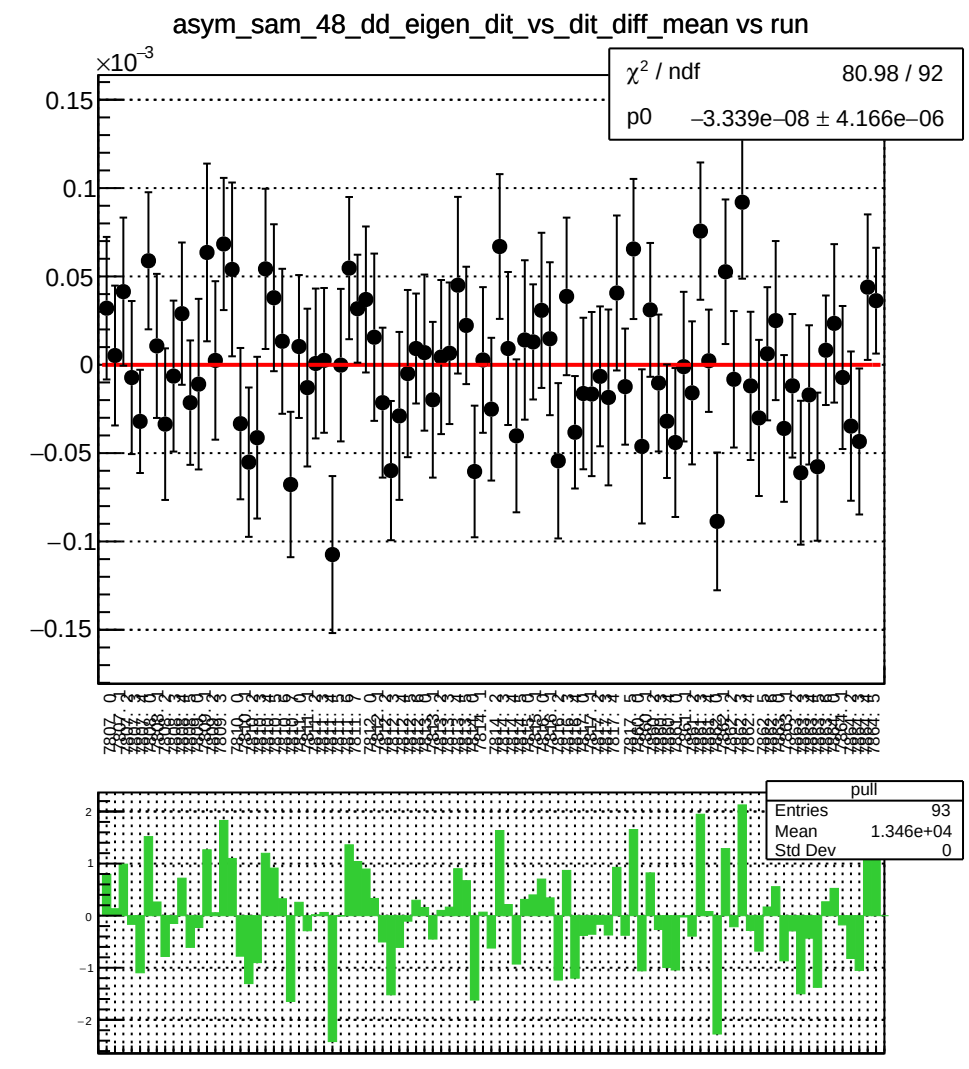

pull1D
Entries 93
Mean −0.003893
Std Dev 1.012

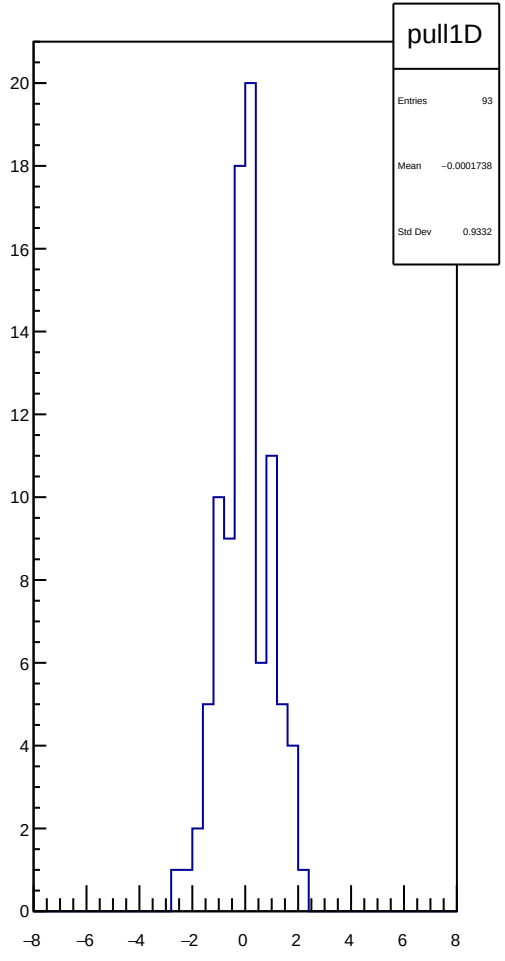

asym_sam_48_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 4.615e+04 / 92
p0 72.53 ± 0.05398
200
180
160
140
120
100
80
60

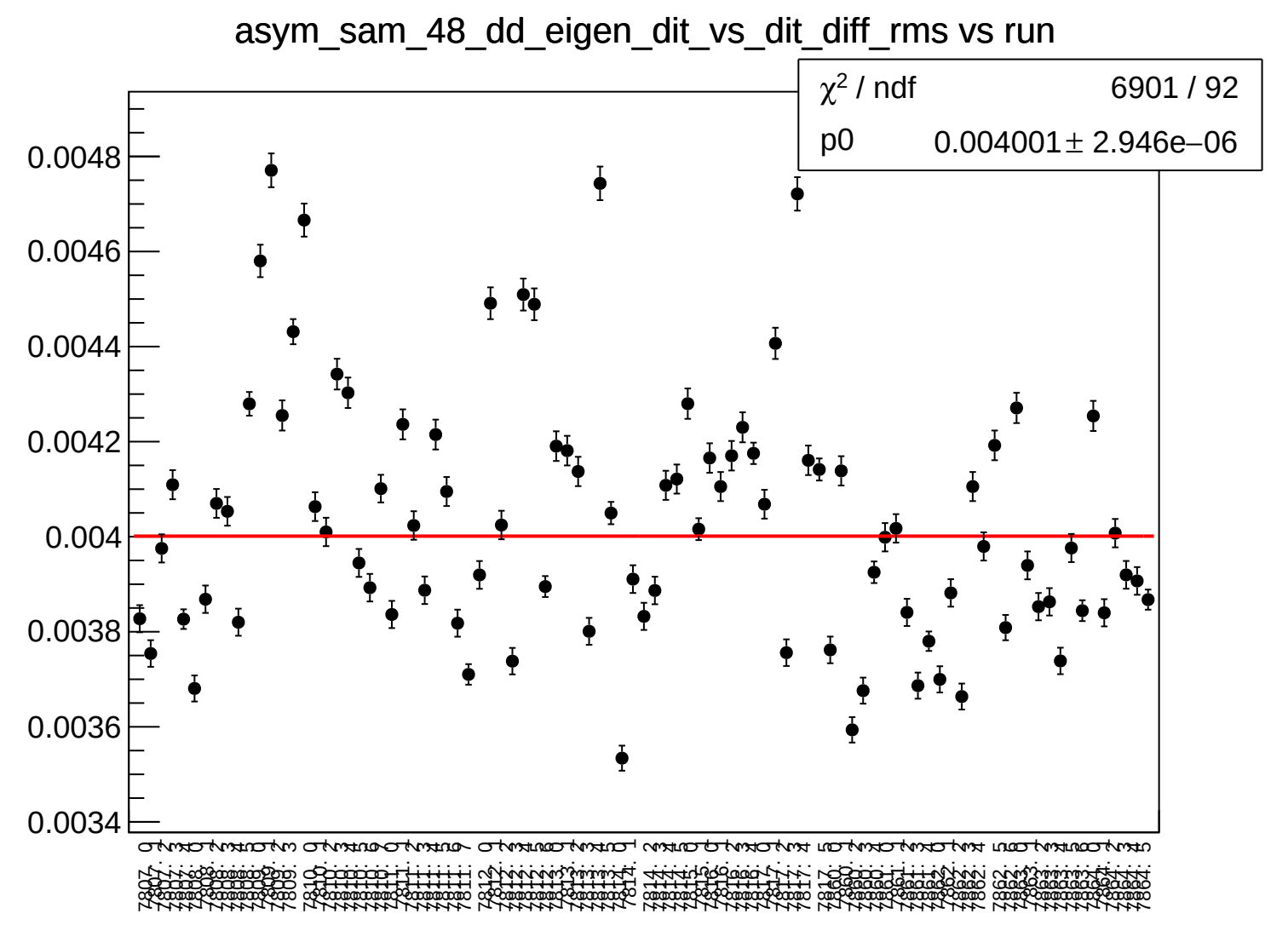

asym_sam_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.29 / 92
p0 −0.001304 ± 0.07633
pull
Entries 93
Mean −894.1
Std Dev 0

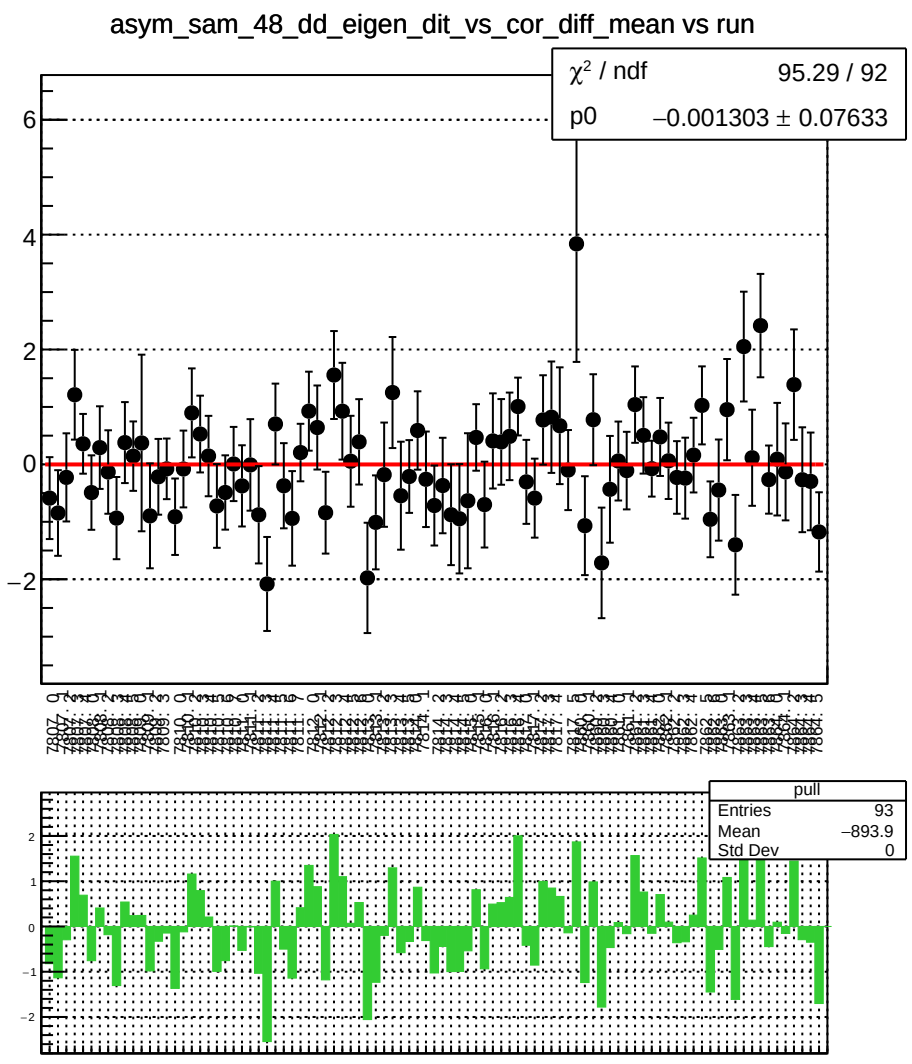

pull1D
Entries 93
Mean −0.003893
Std Dev 1.012

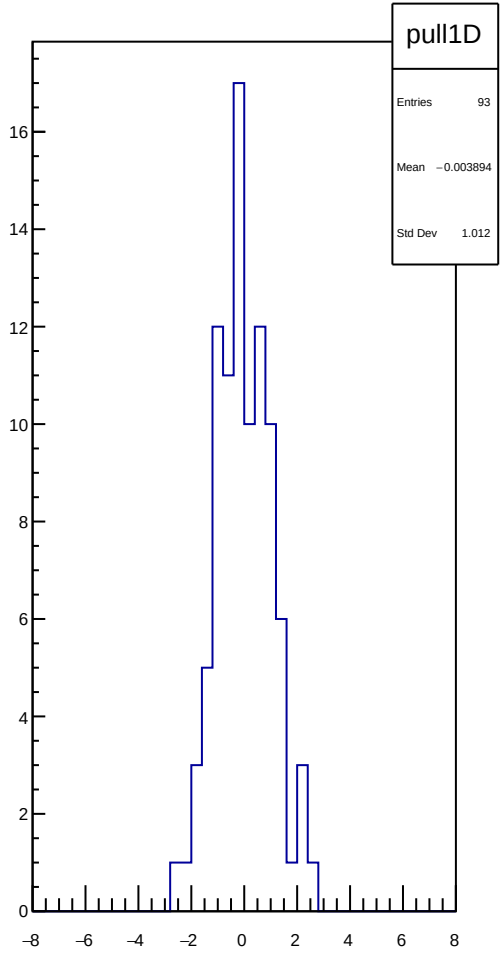

asym_sam_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.615e+04 / 92
p0 72.53 ± 0.05398
200
180
160
140
120
100
80
60

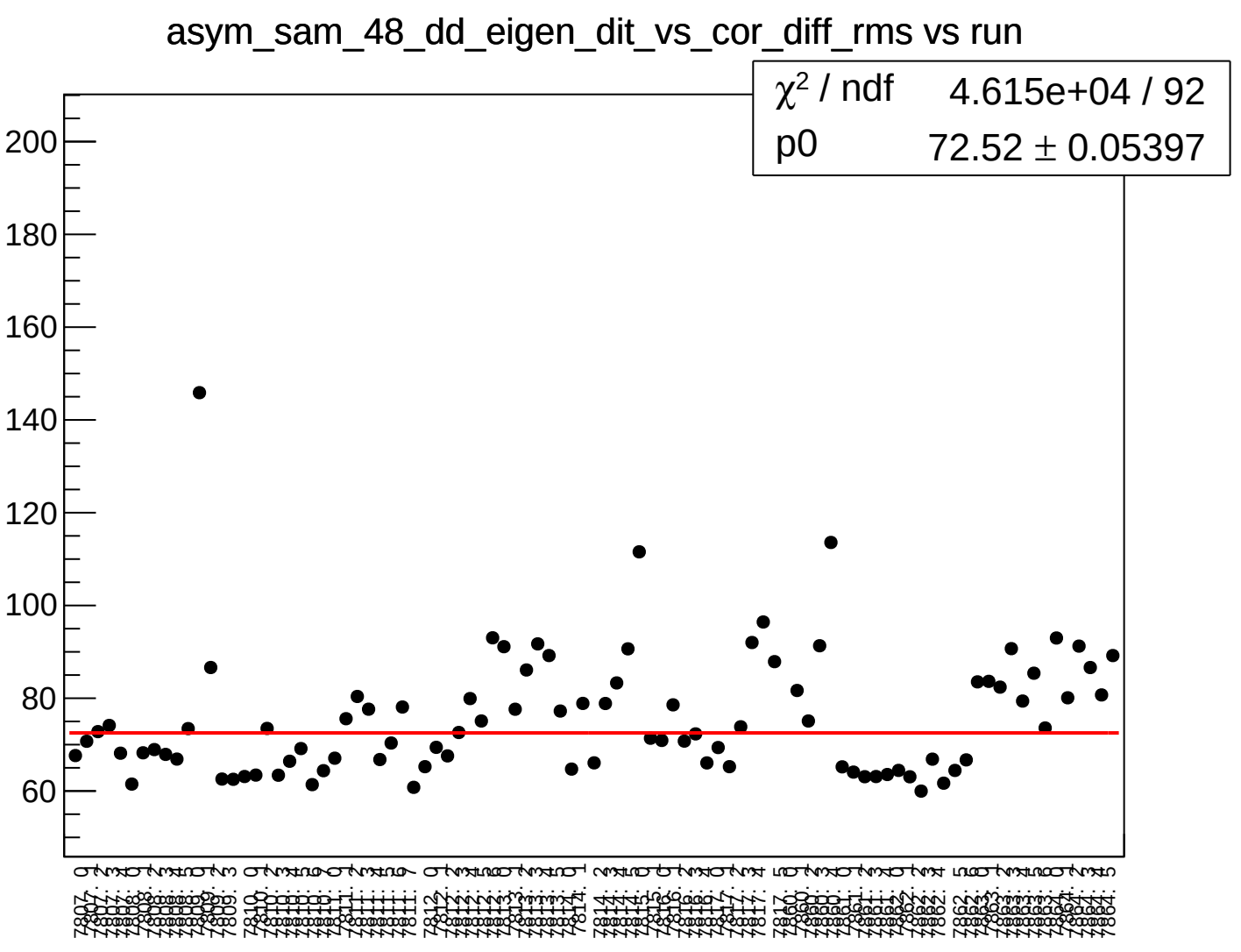

asym_sam_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 80.98 / 92
p0 −3.339e−08 ± 4.166e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 93
Mean 1.346e+04
Std Dev 0
2
1
0
−1
−2

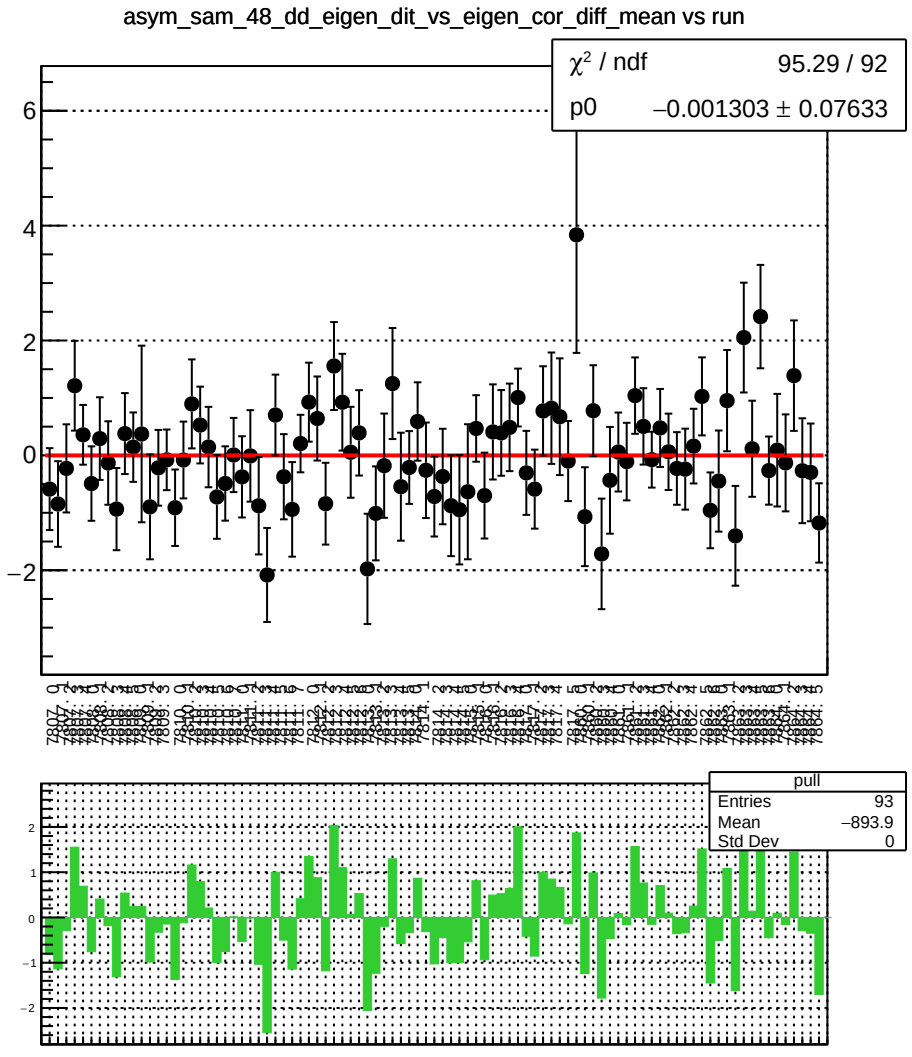

pull1D
Entries 93
Mean −0.0001738
Std Dev 0.9332
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

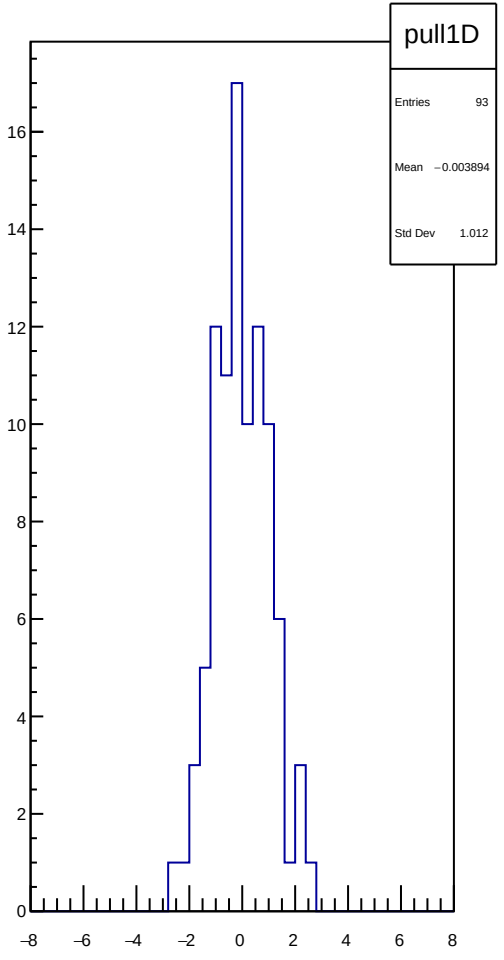

asym_sam_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6901 / 92
p0 0.004001 ± 2.946e−06
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036
0.0034

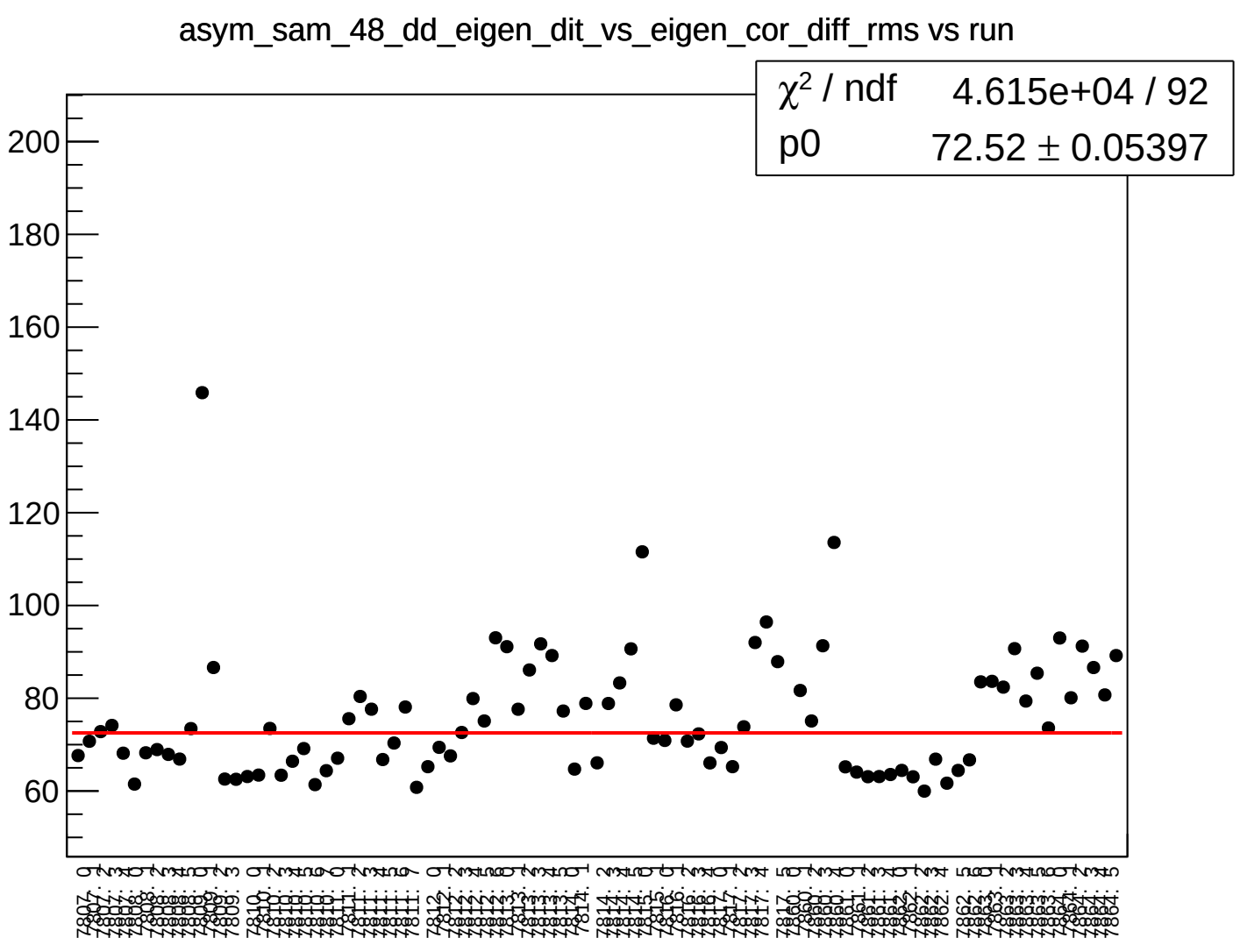

asym_sam_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.29 / 92
p0 −0.001303 ± 0.07633
pull
Entries 93
Mean −893.9
Std Dev 0

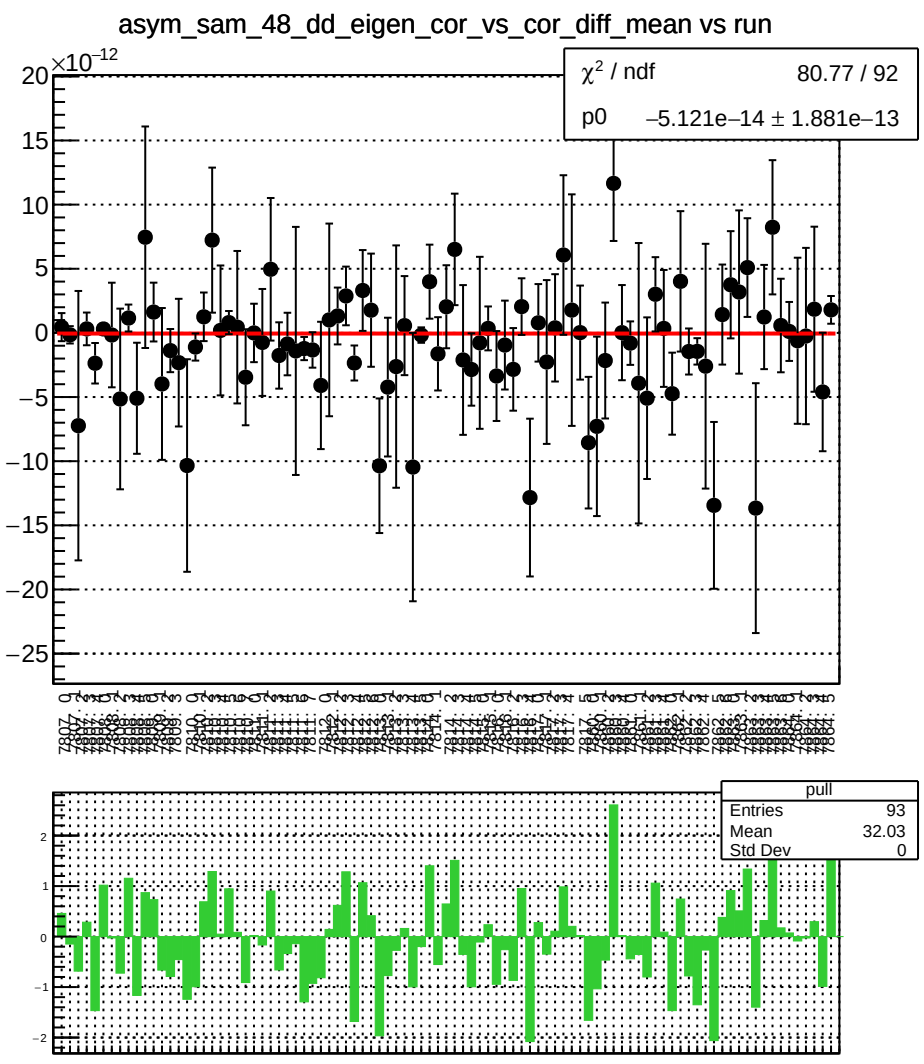

pull1D
Entries 93
Mean −0.003894
Std Dev 1.012

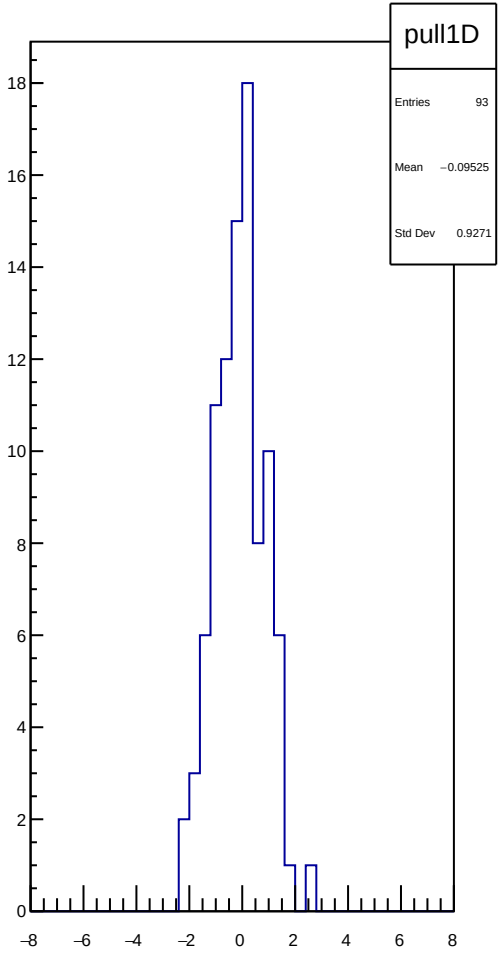

asym_sam_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.615e+04 / 92
p0 72.52 ± 0.05397
200
180
160
140
120
100
80
60

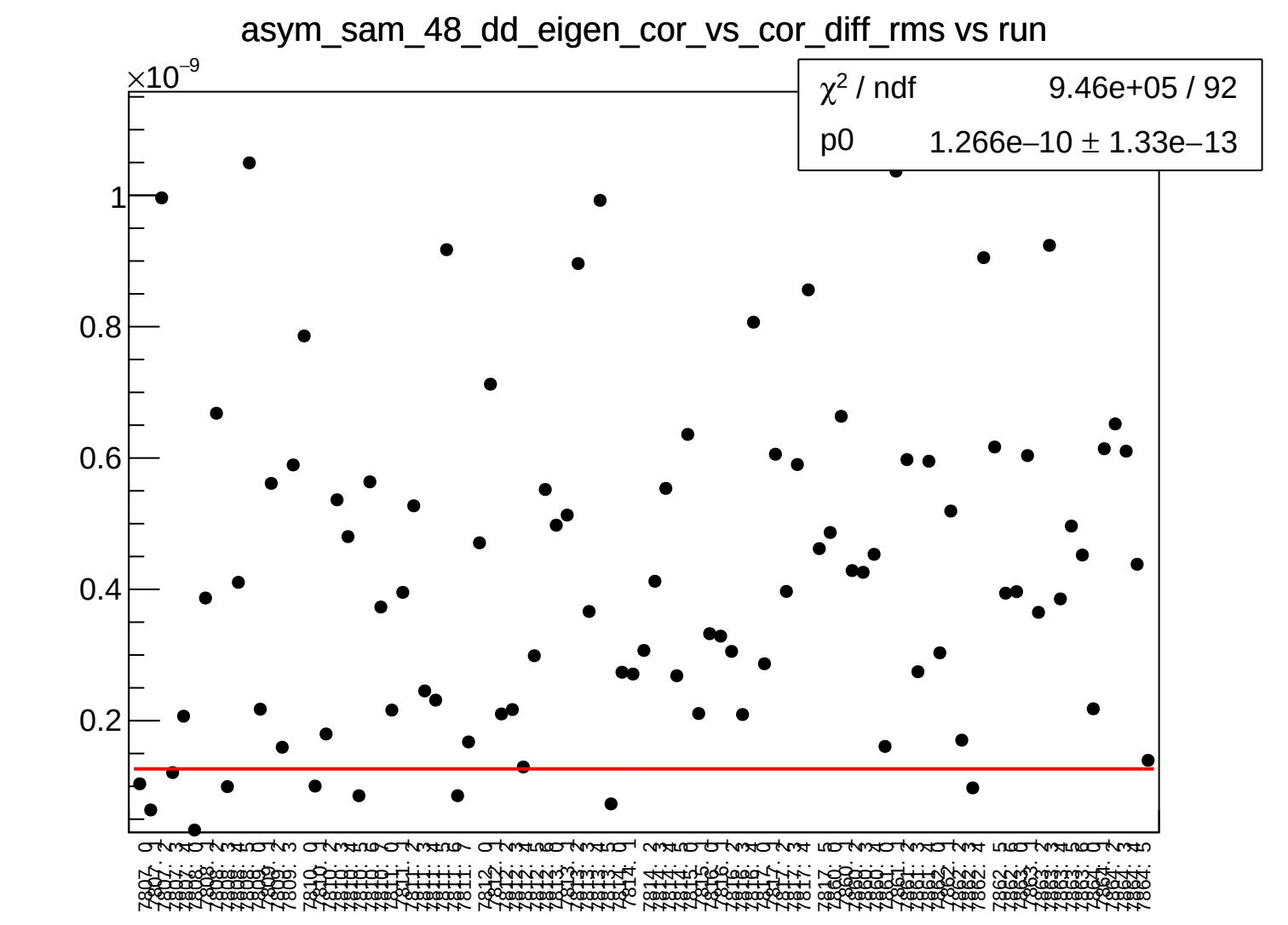

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.29 / 92
p0 −0.001303 ± 0.07633
pull
Entries 93
Mean −893.9
Std Dev 0

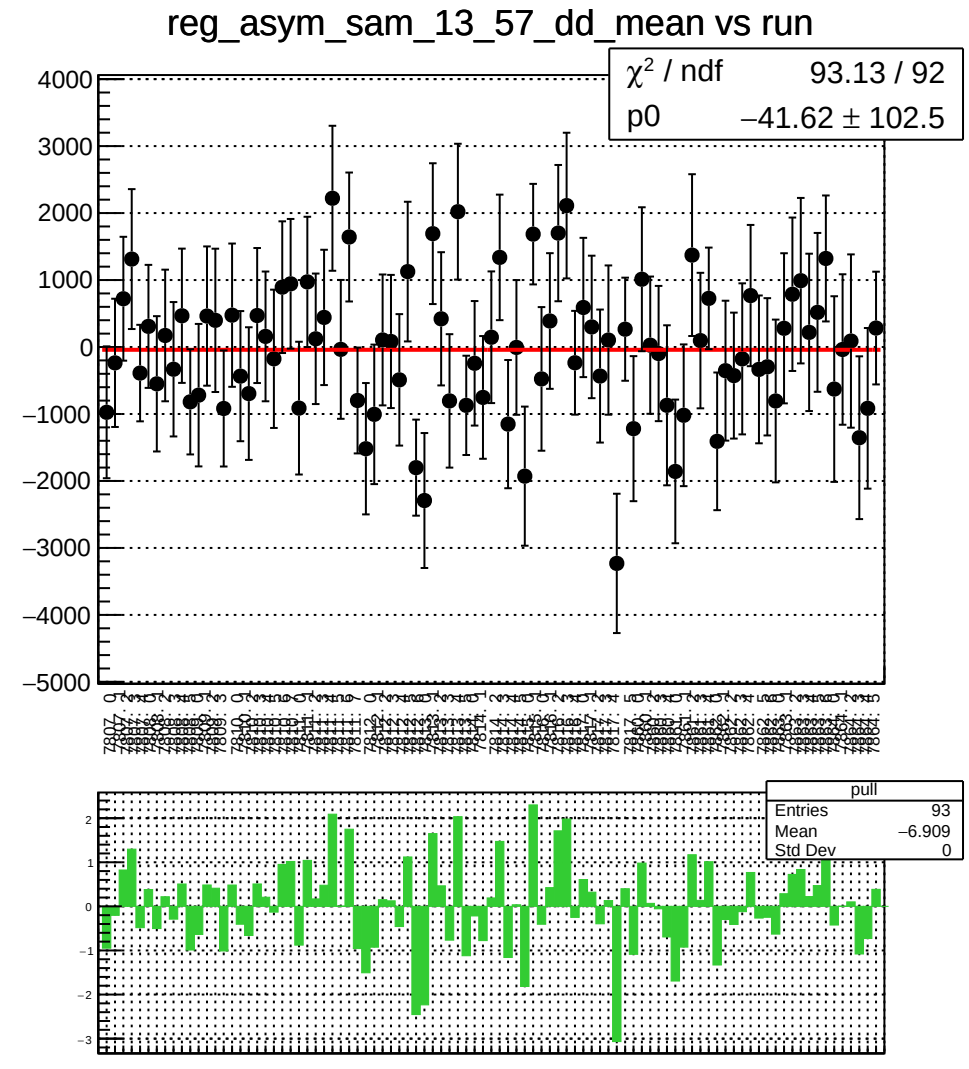

pull1D
Entries 93
Mean −0.003894
Std Dev 1.012

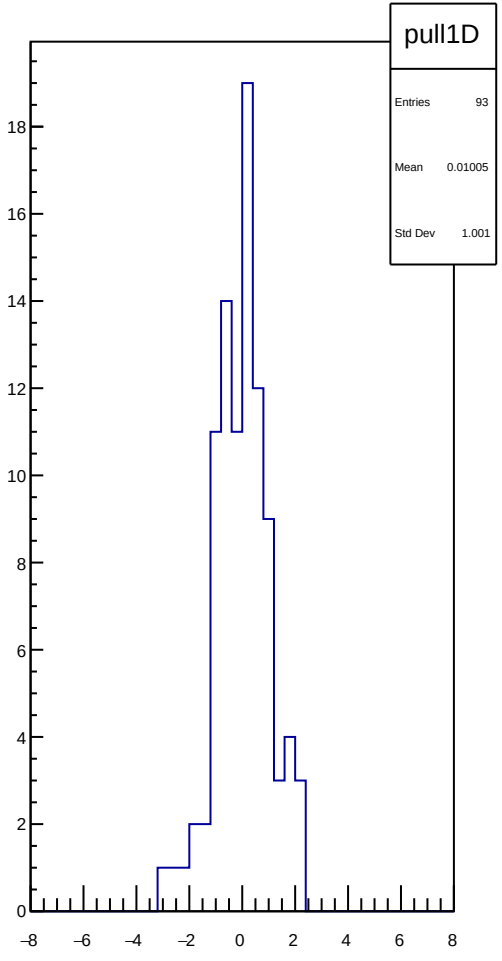

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.615e+04 / 92
p0 72.52 ± 0.05397
200
180
160
140
120
100
80
60

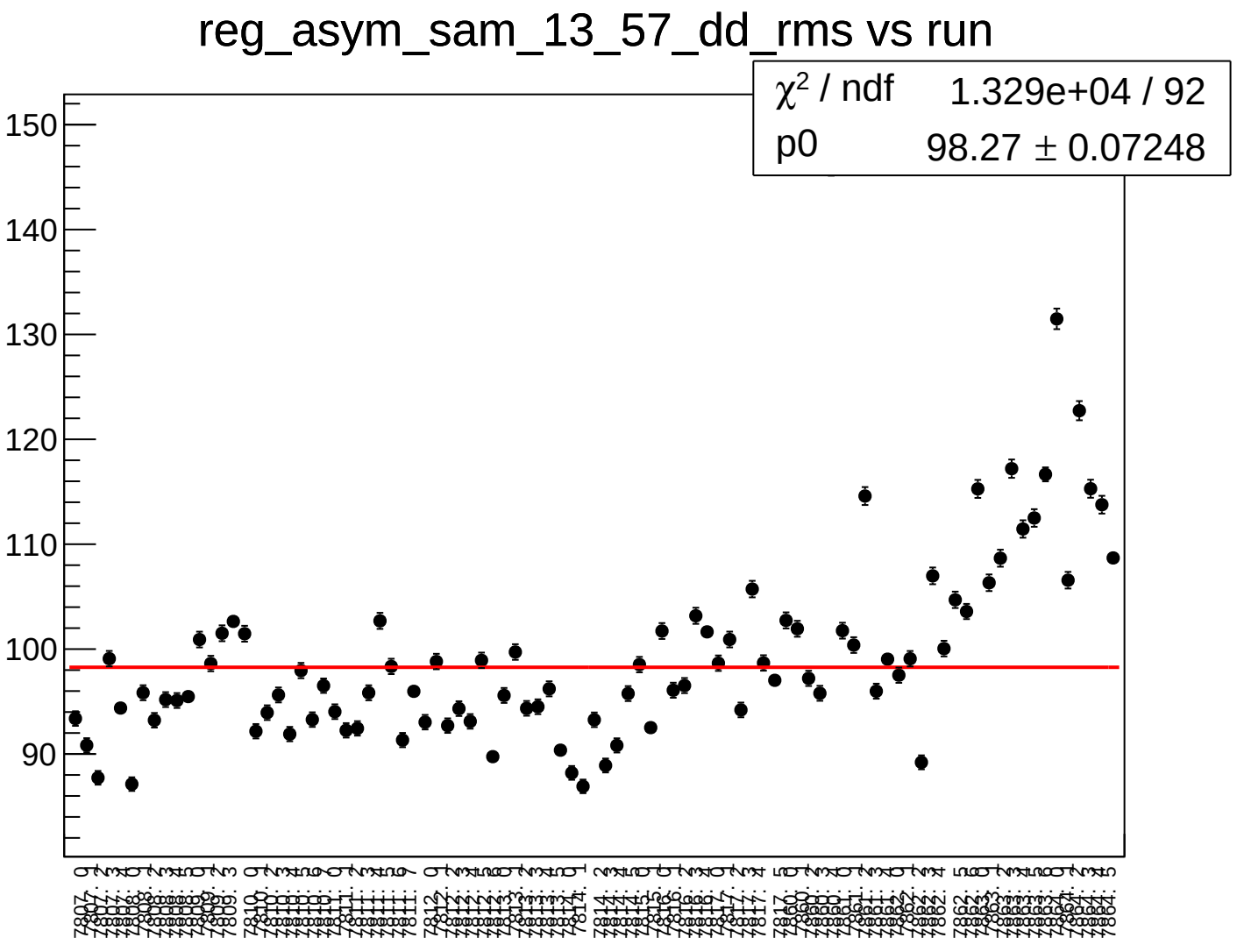

asym_sam_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.77 / 92
p0 −5.121e−14 ± 1.881e−13
pull
Entries 93
Mean 32.03
Std Dev 0

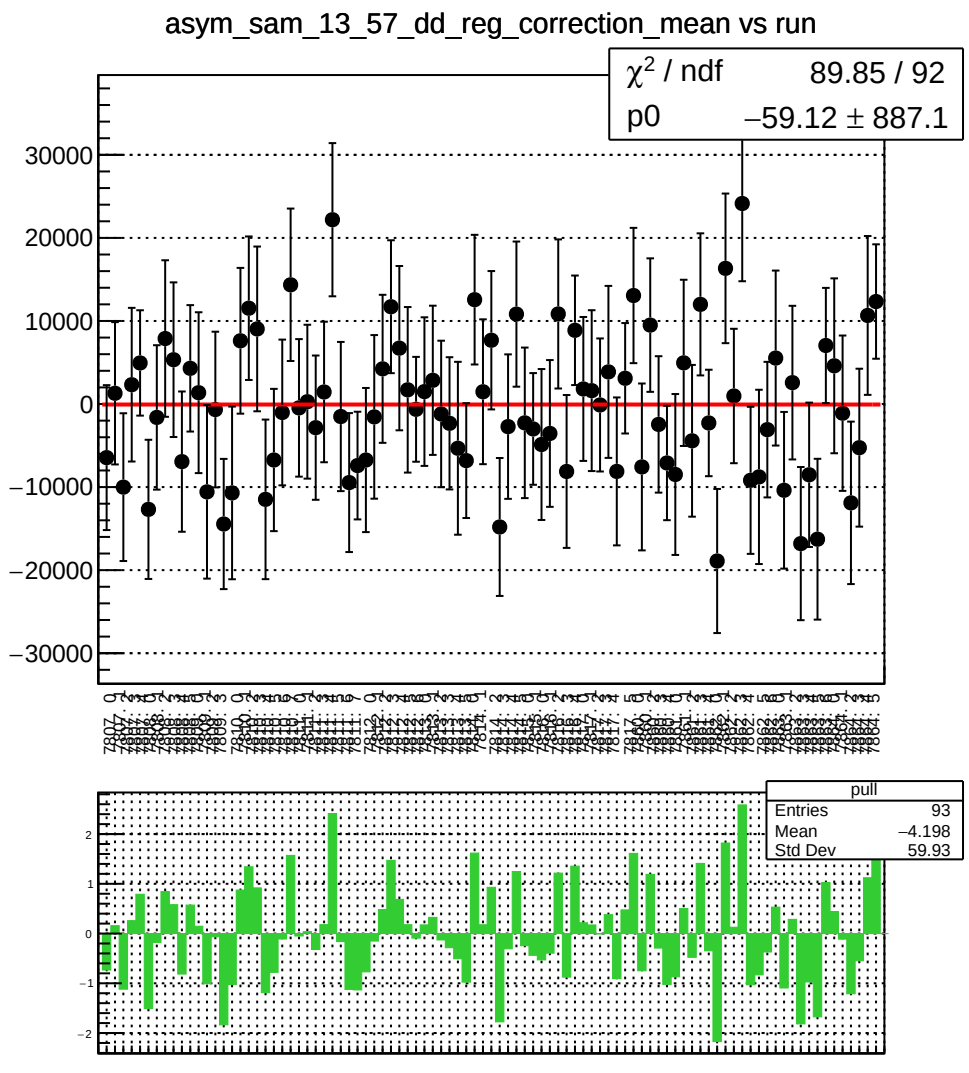

pull1D
Entries 93
Mean −0.09525
Std Dev 0.9271

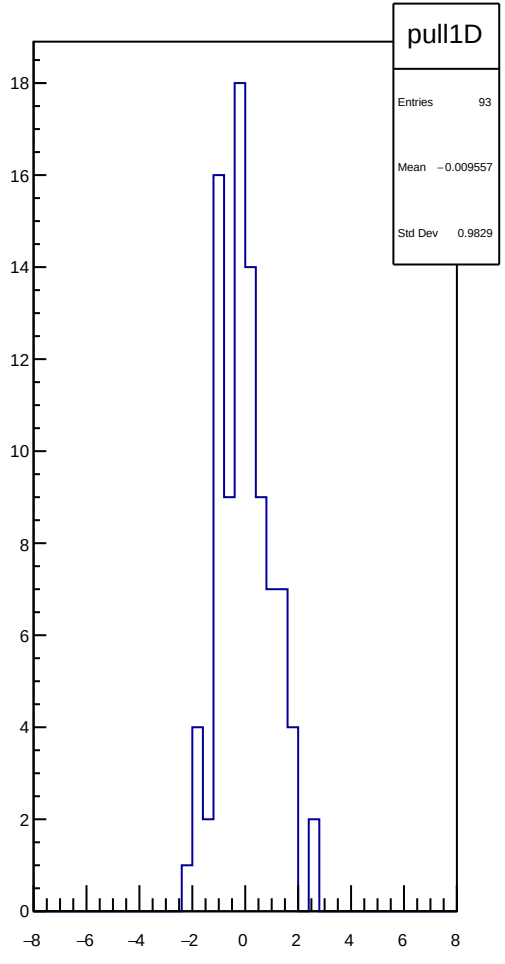

asym_sam_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.46e+05 / 92
p0 1.266e−10 ± 1.33e−13
1
0.8
0.6
0.4
0.2

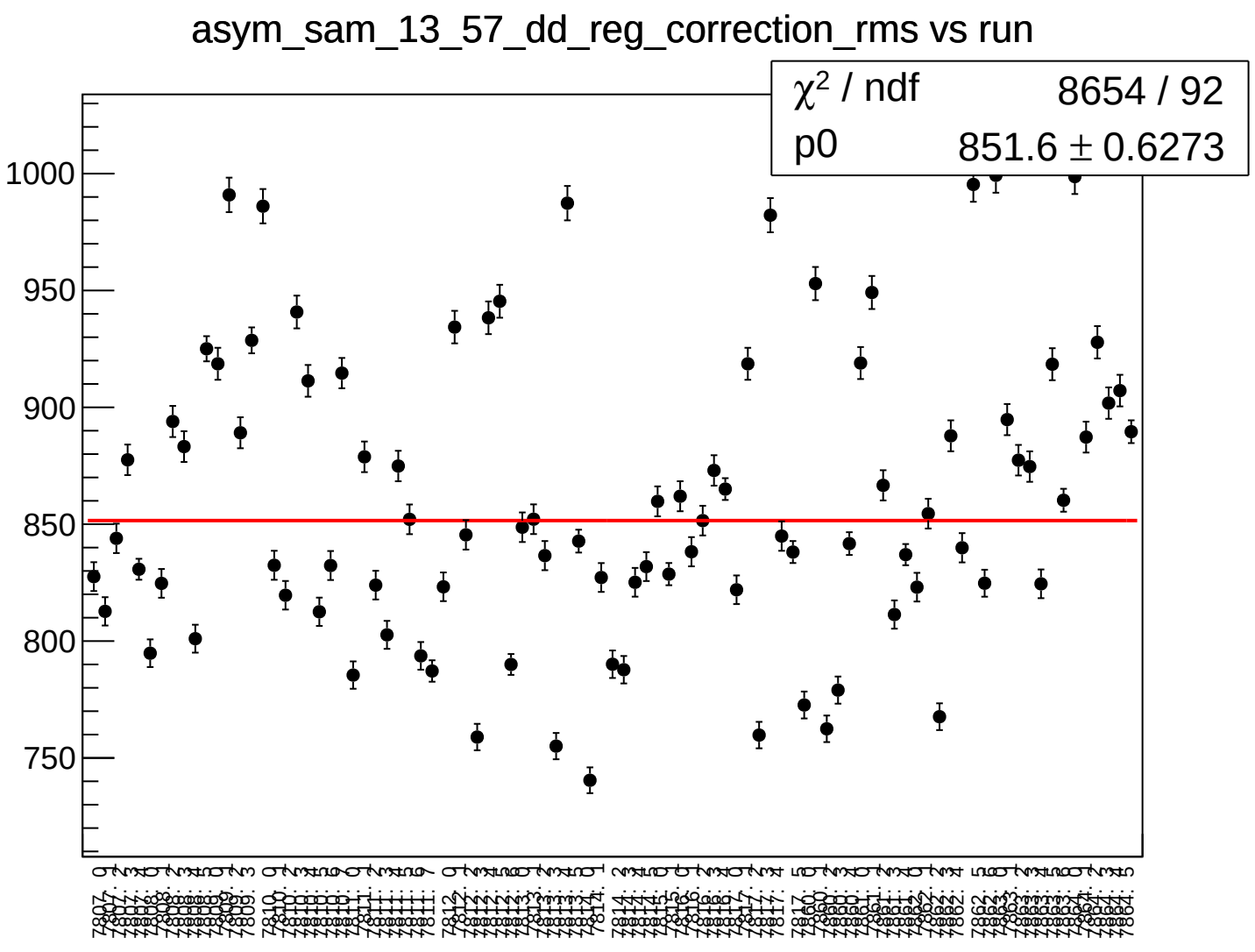

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 93.13 / 92
p0 −41.62 ± 102.5
pull
Entries 93
Mean −6.909
Std Dev 0

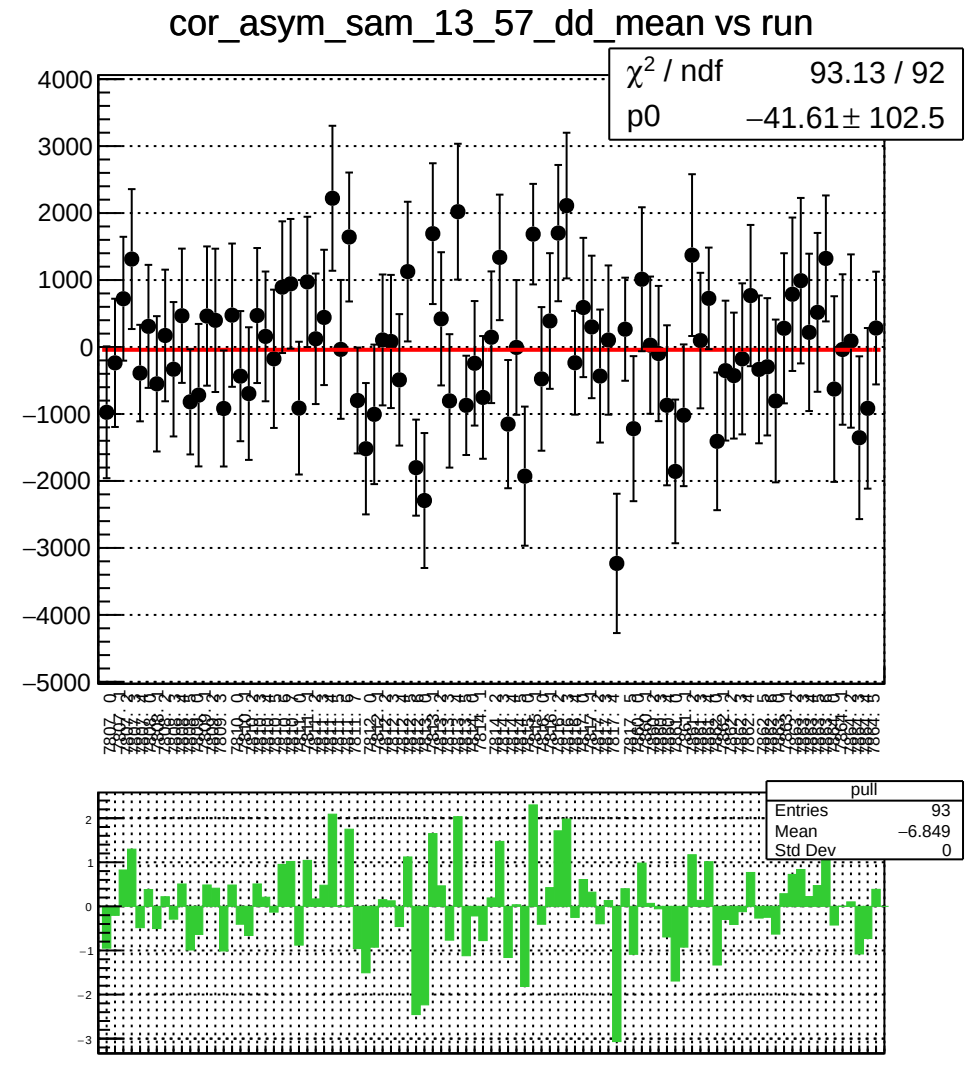

pull1D
Entries 93
Mean 0.01005
Std Dev 1.001

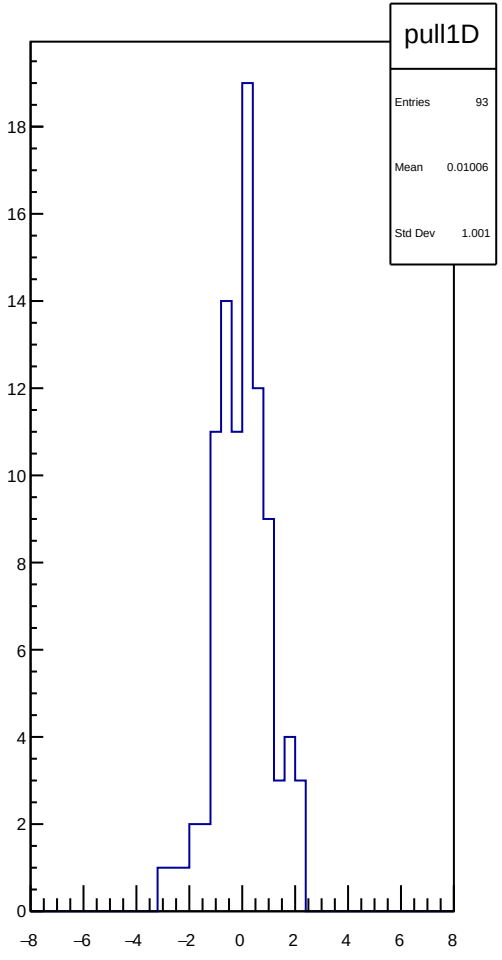

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 1.329e+04 / 92
p0 98.27 ± 0.07248
150
140
130
120
110
100
90

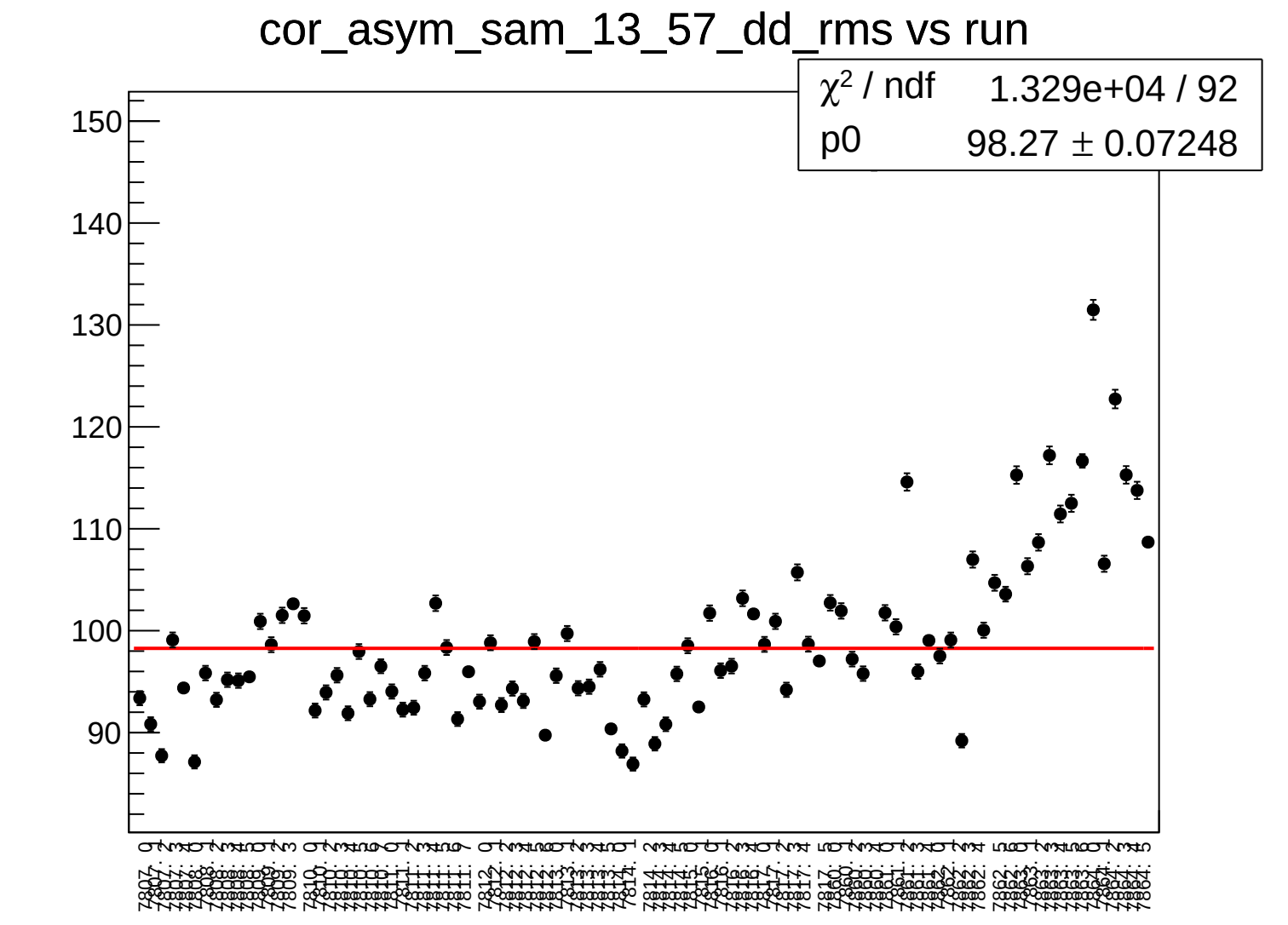

asym_sam_13_57_dd_reg_correction_mean vs run
χ² / ndf 89.85 / 92
p0 −59.12 ± 887.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −4.198
Std Dev 59.93
2
1
0
−1
−2

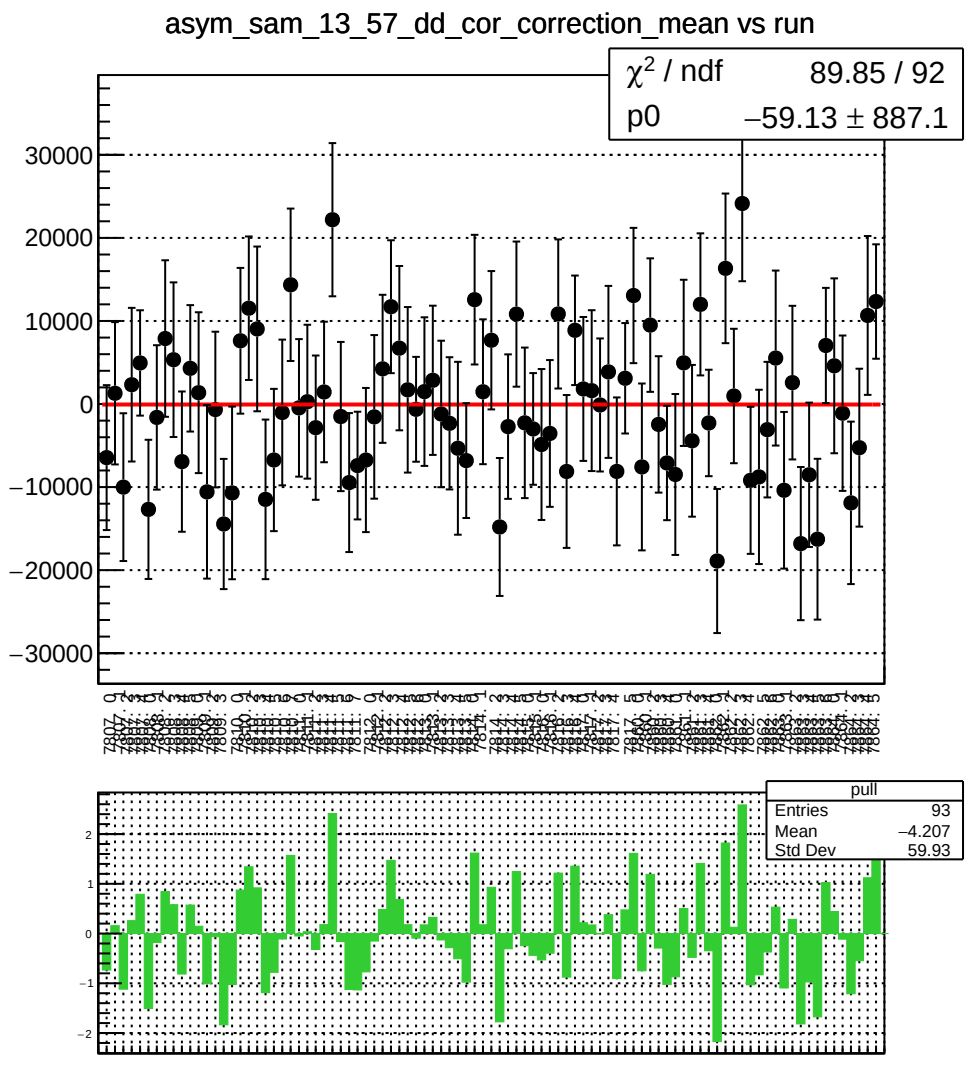

pull1D
Entries 93
Mean −0.009557
Std Dev 0.9829
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

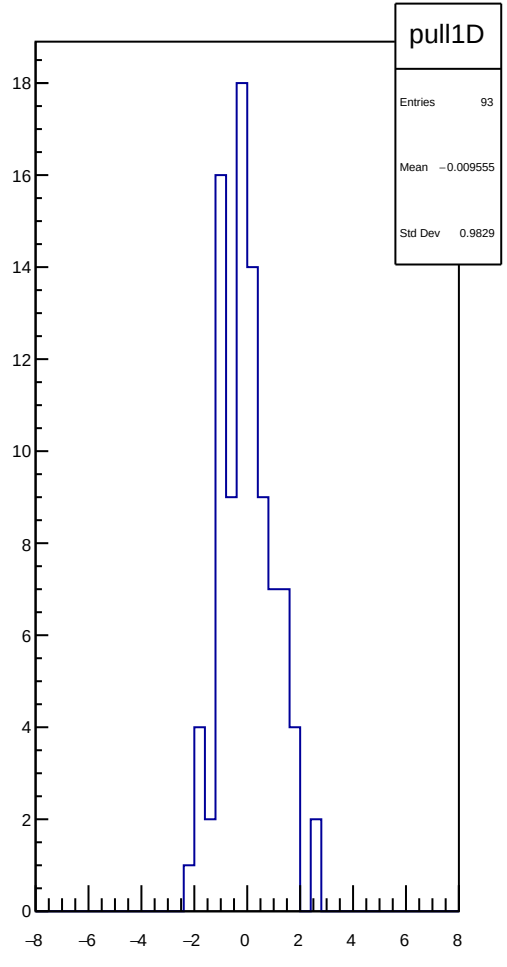

asym_sam_13_57_dd_reg_correction_rms vs run
χ² / ndf 8654 / 92
p0 851.6 ± 0.6273
1000
950
900
850
800
750

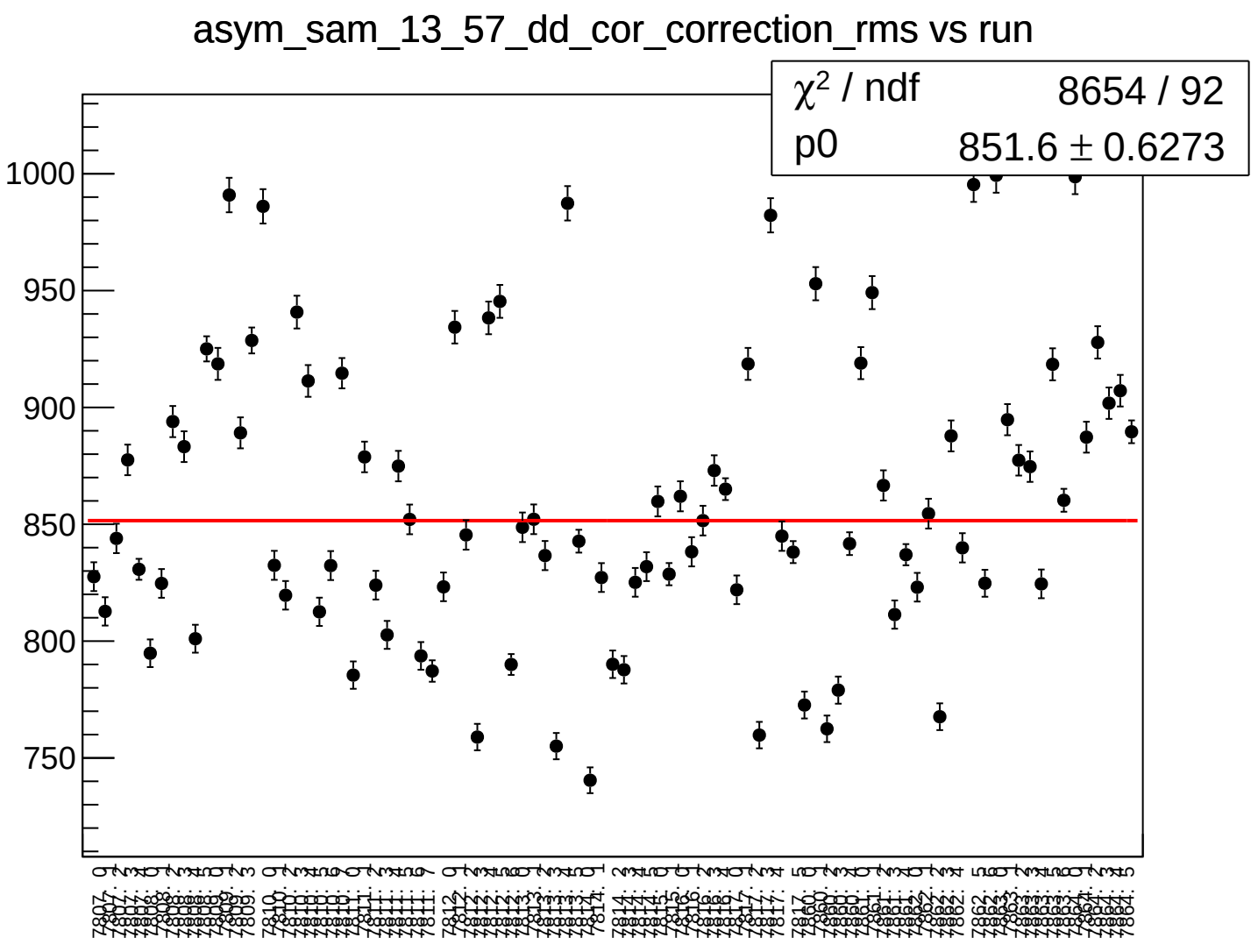

cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 93.13 / 92
p0 −41.61 ± 102.5
pull
Entries 93
Mean −6.849
Std Dev 0

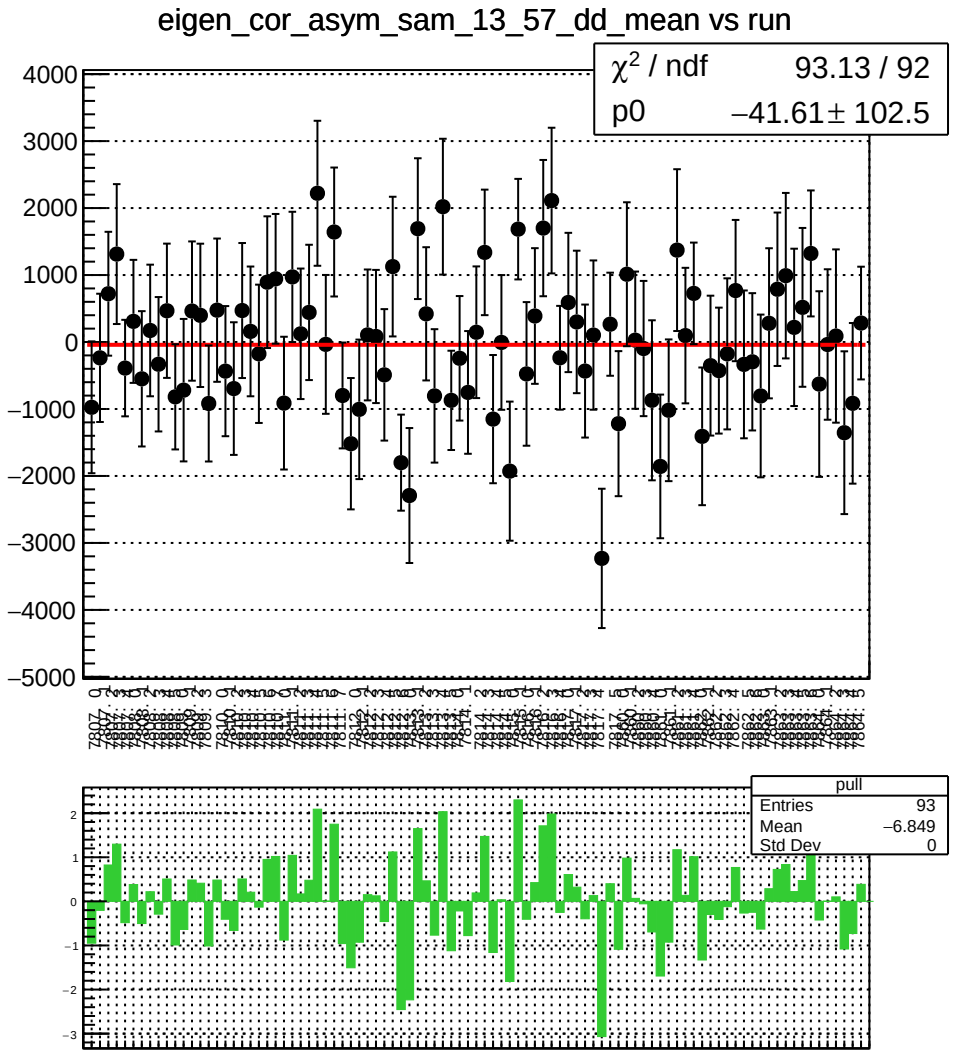

pull1D
Entries 93
Mean 0.01006
Std Dev 1.001

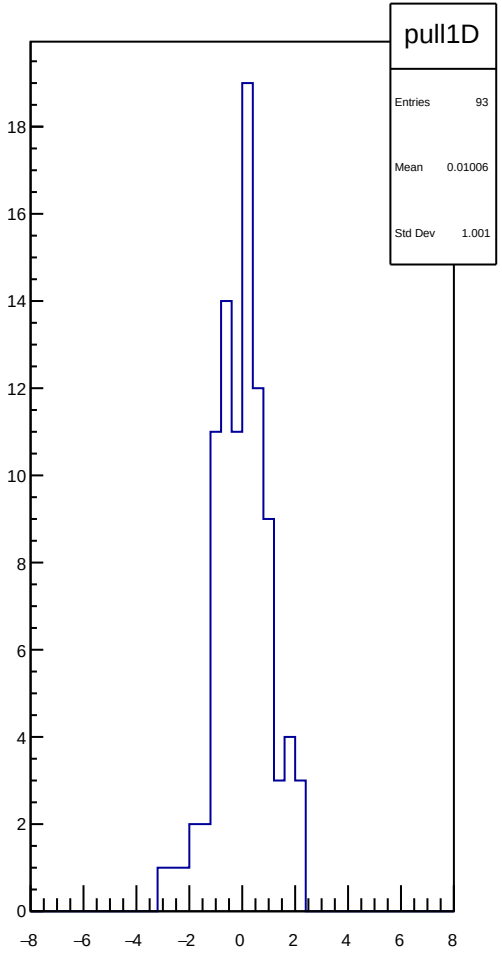

cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 1.329e+04 / 92
p0 98.27 ± 0.07248
150
140
130
120
110
100
90

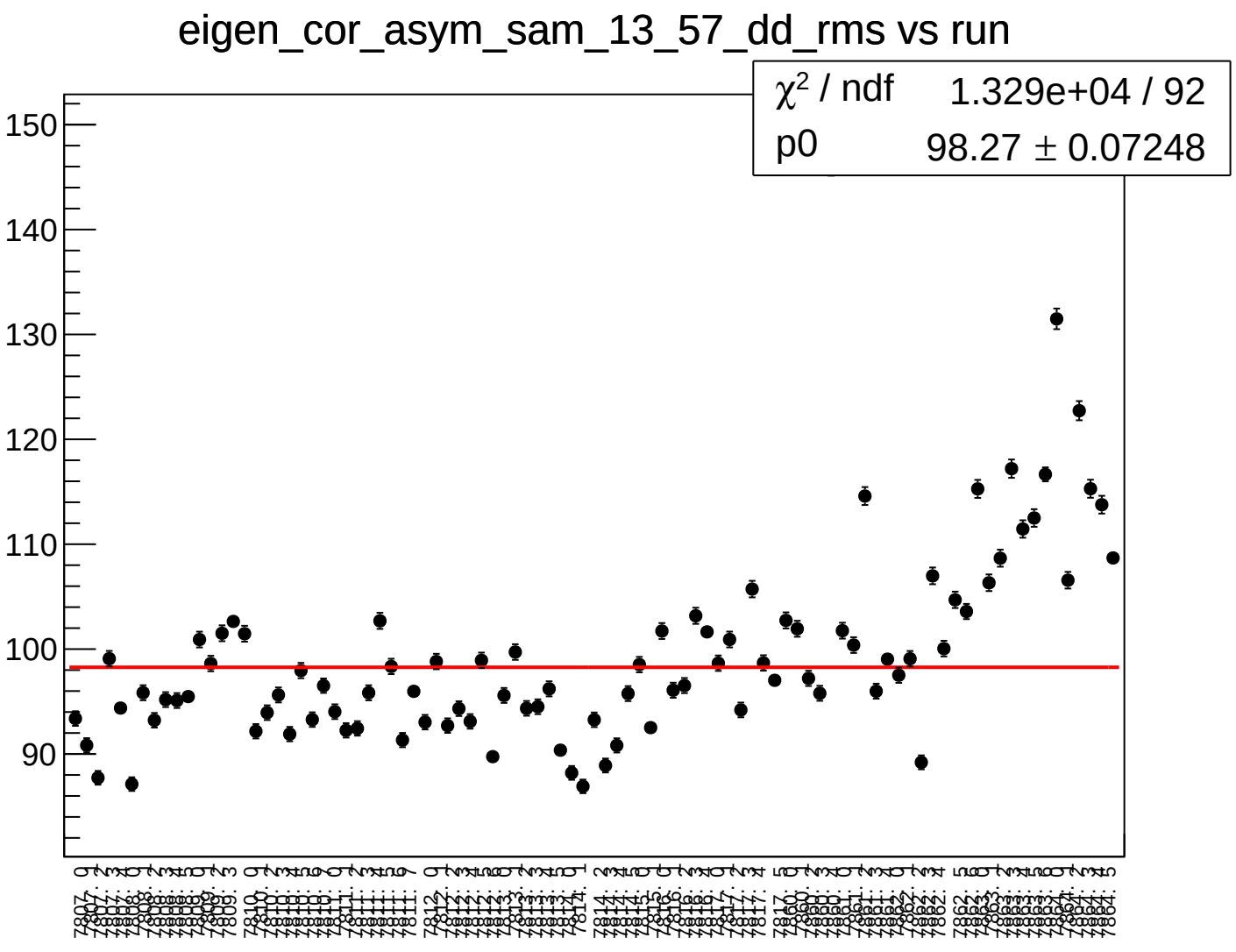

asym_sam_13_57_dd_cor_correction_mean vs run
χ² / ndf 89.85 / 92
p0 −59.13 ± 887.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −4.207
Std Dev 59.93
2
1
0
−1
−2

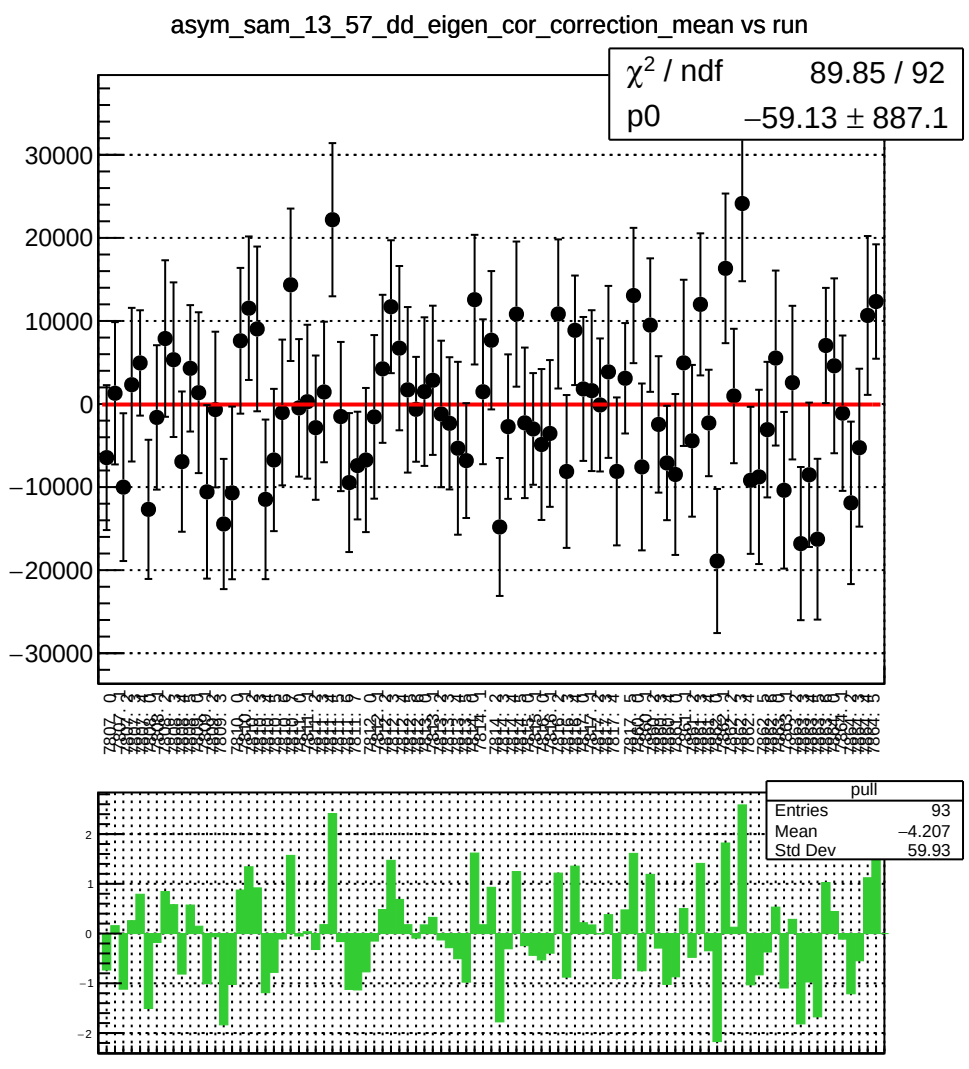

pull1D
Entries 93
Mean −0.009555
Std Dev 0.9829
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

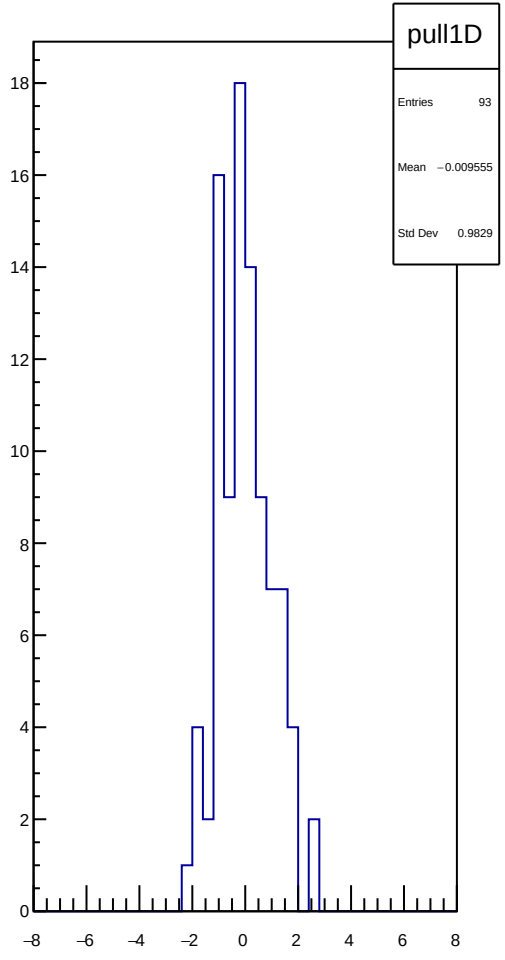

asym_sam_13_57_dd_cor_correction_rms vs run
χ² / ndf 8654 / 92
p0 851.6 ± 0.6273
1000
950
900
850
800
750

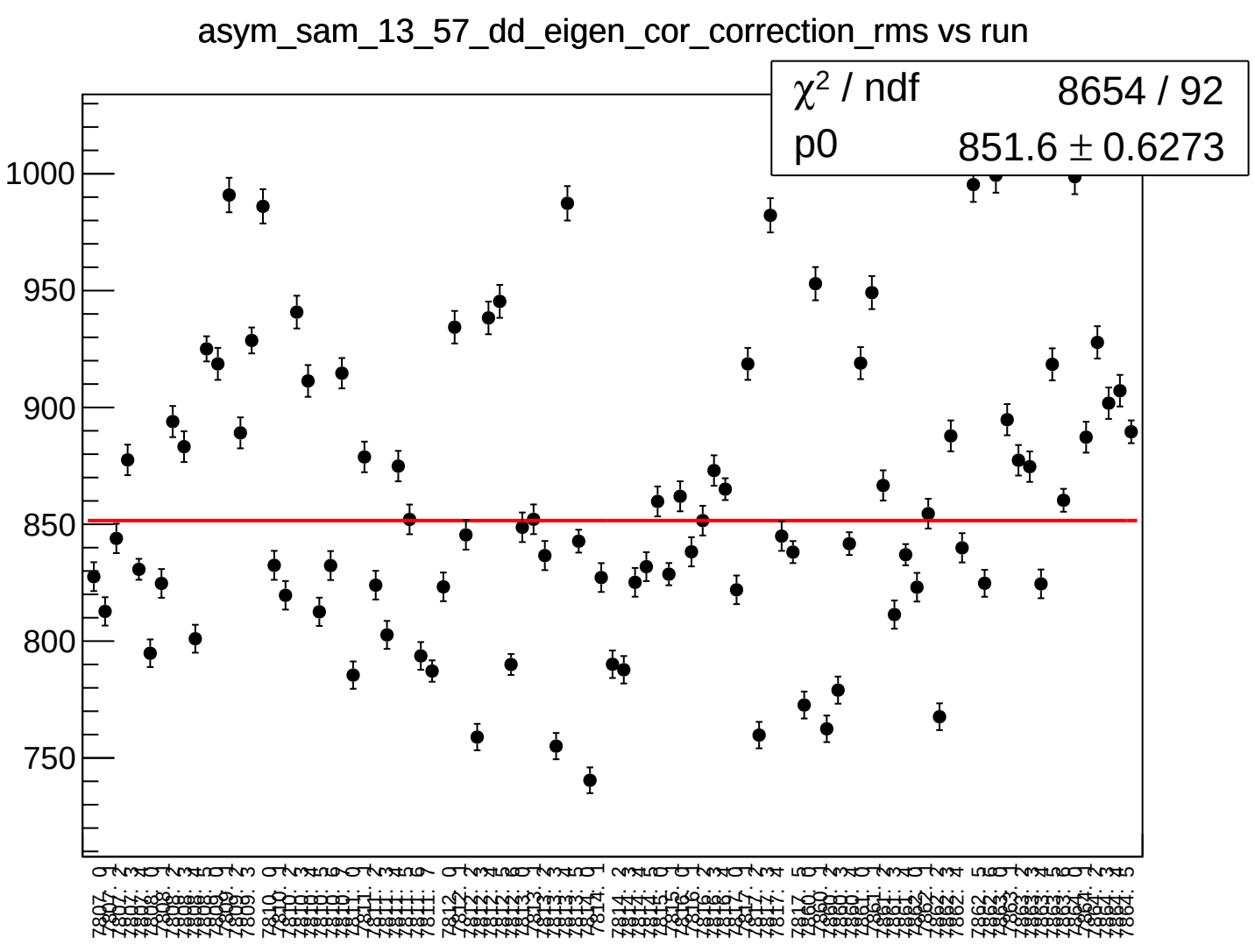

eigen_cor_asym_sam_13_57_dd_mean vs run
χ^2 / ndf 93.13 / 92
p0 −41.61 ± 102.5
pull
Entries 93
Mean −6.849
Std Dev 0

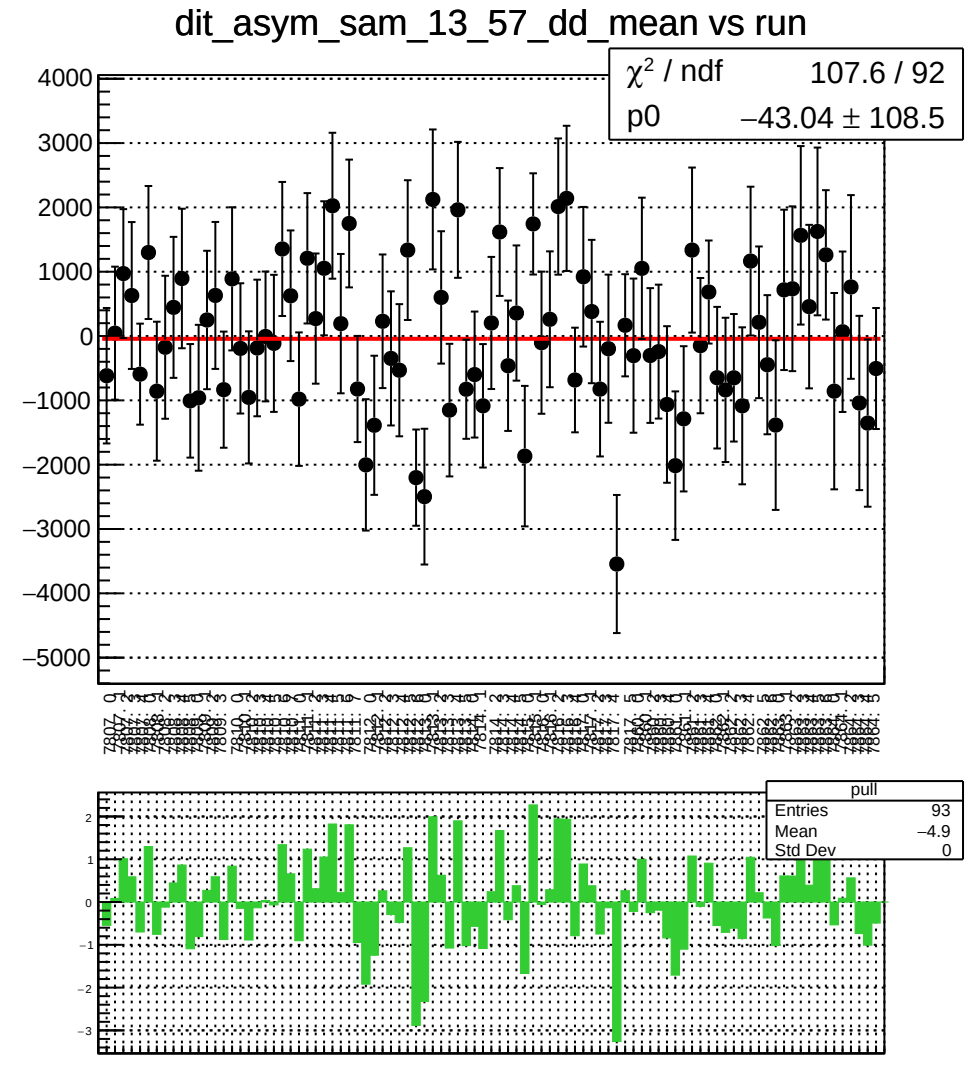

pull1D
Entries 93
Mean 0.01006
Std Dev 1.001

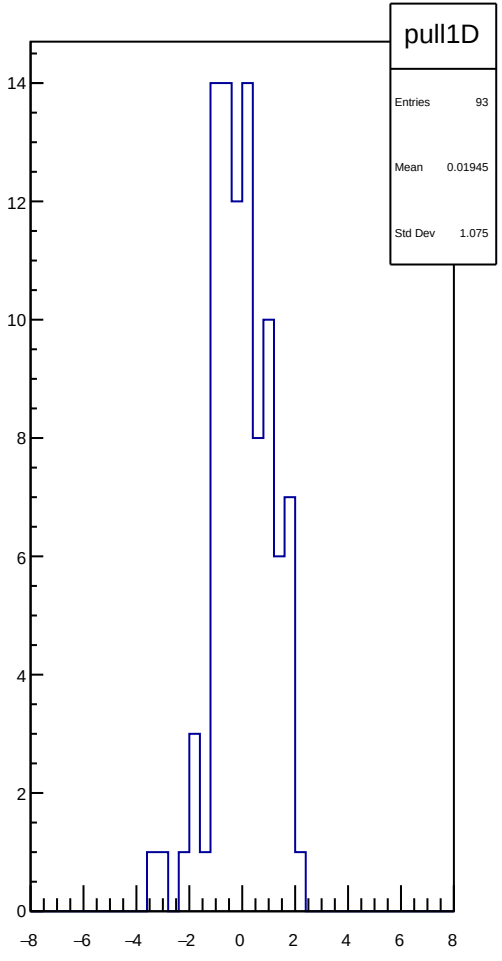

eigen_cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 1.329e+04 / 92
p0 98.27 ± 0.07248
150
140
130
120
110
100
90

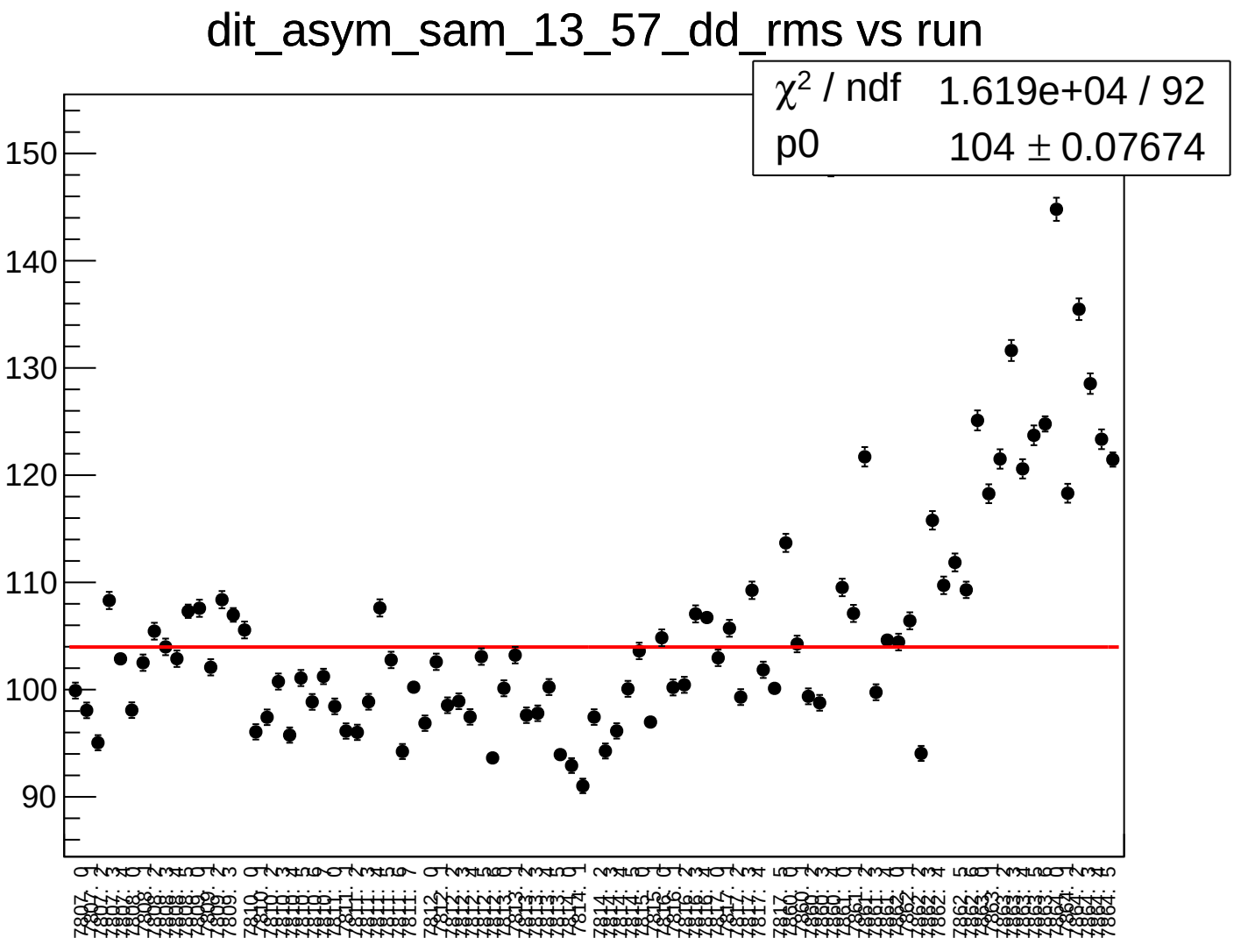

asym_sam_13_57_dd_eigen_cor_correction_mean vs run
χ² / ndf 89.85 / 92
p0 −59.13 ± 887.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −4.207
Std Dev 59.93
2
1
0
−1
−2

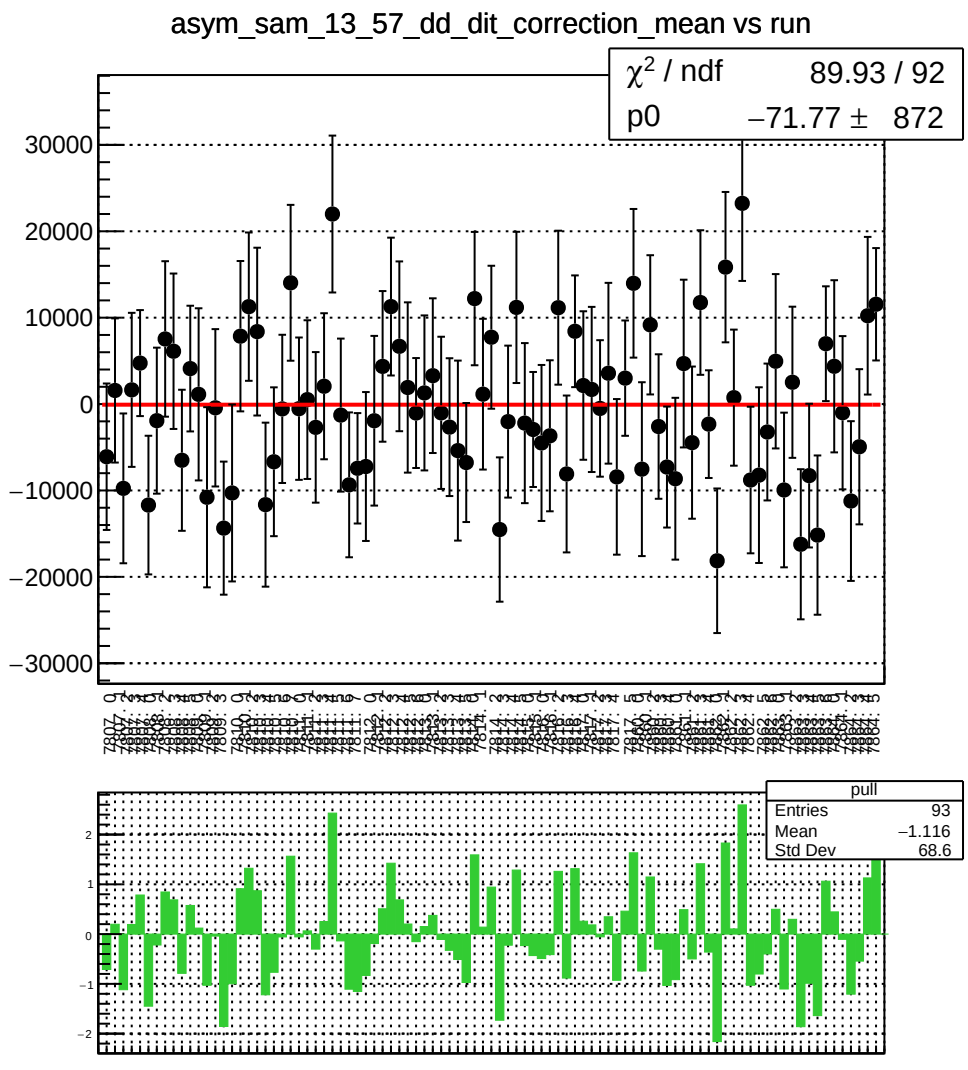

pull1D
Entries 93
Mean −0.009555
Std Dev 0.9829
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

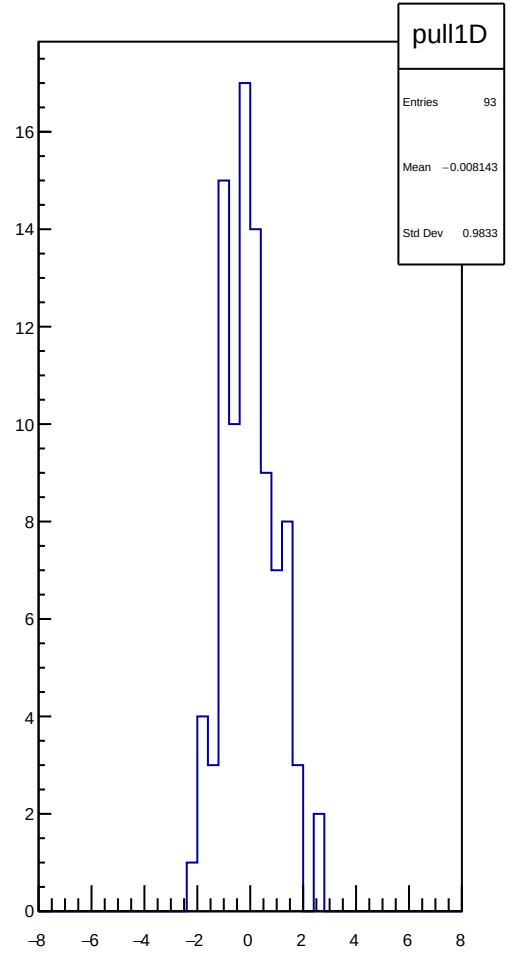

asym_sam_13_57_dd_eigen_cor_correction_rms vs run
χ² / ndf 8654 / 92
p0 851.6 ± 0.6273
1000
950
900
850
800
750

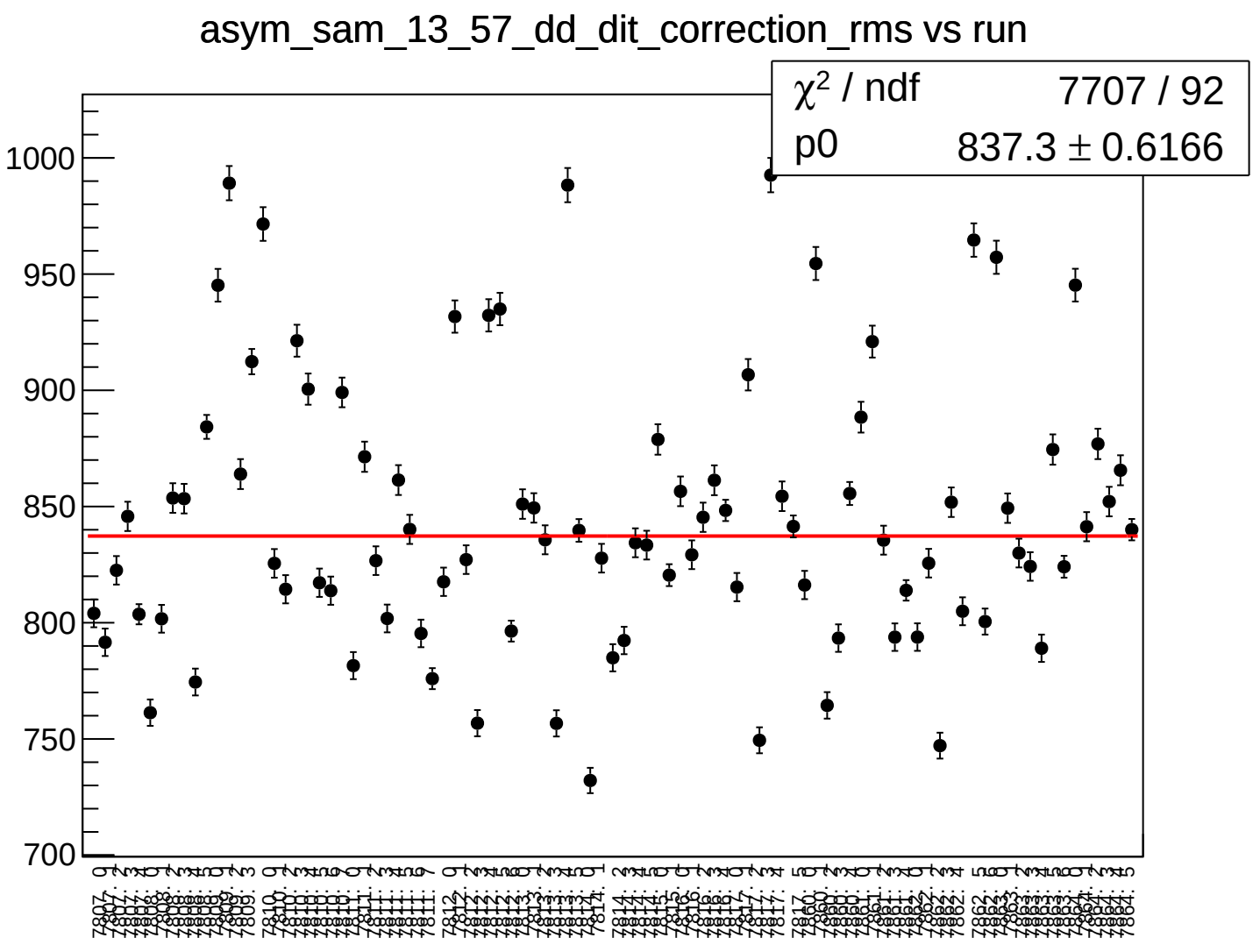

dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 107.6 / 92
p0 −43.04 ± 108.5
pull
Entries 93
Mean −4.9
Std Dev 0

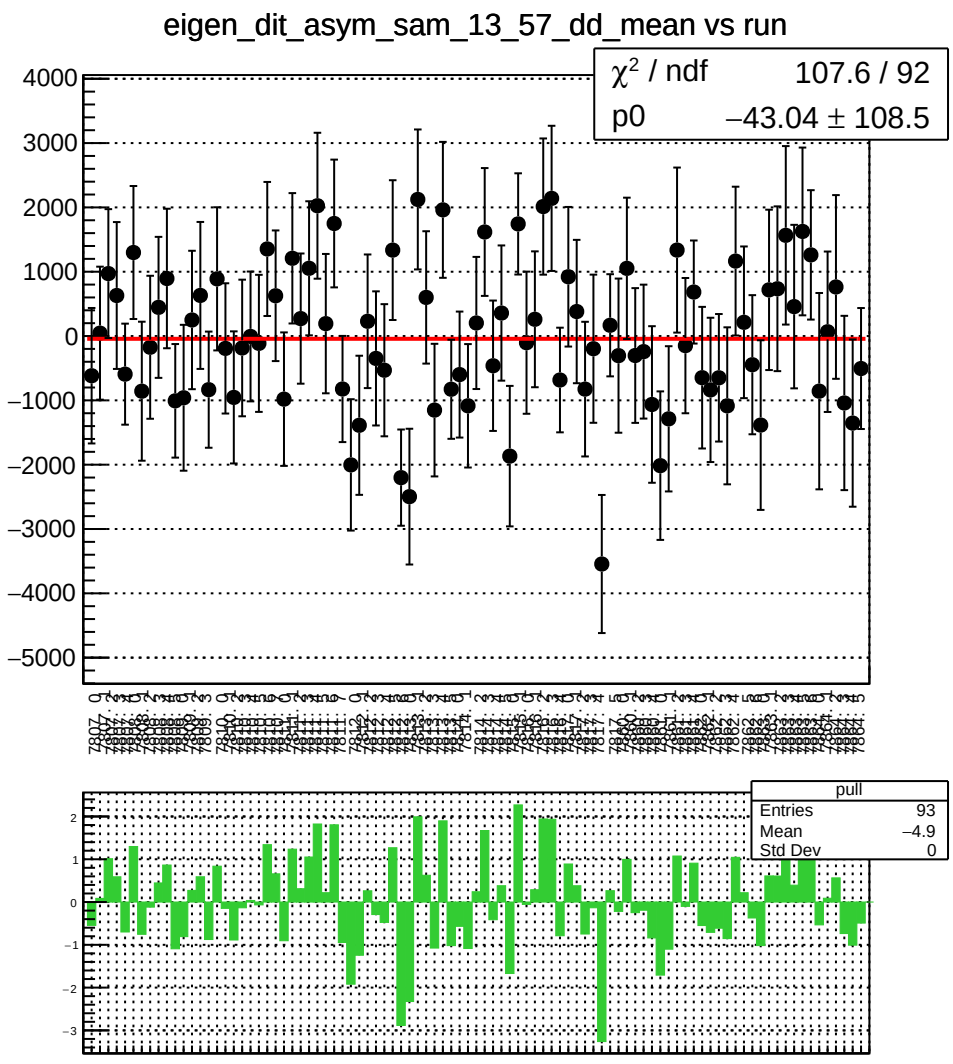

pull1D
Entries 93
Mean 0.01945
Std Dev 1.075

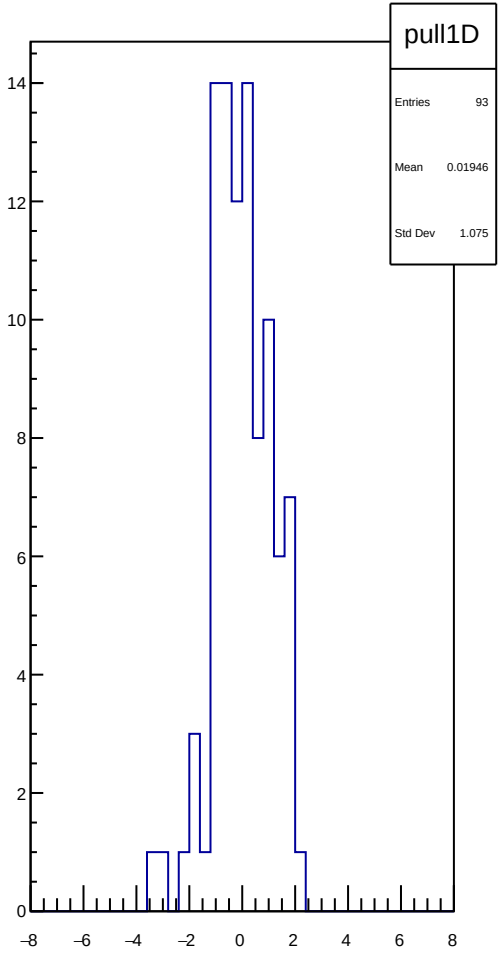

dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 1.619e+04 / 92
p0 104 ± 0.07674
150
140
130
120
110
100
90

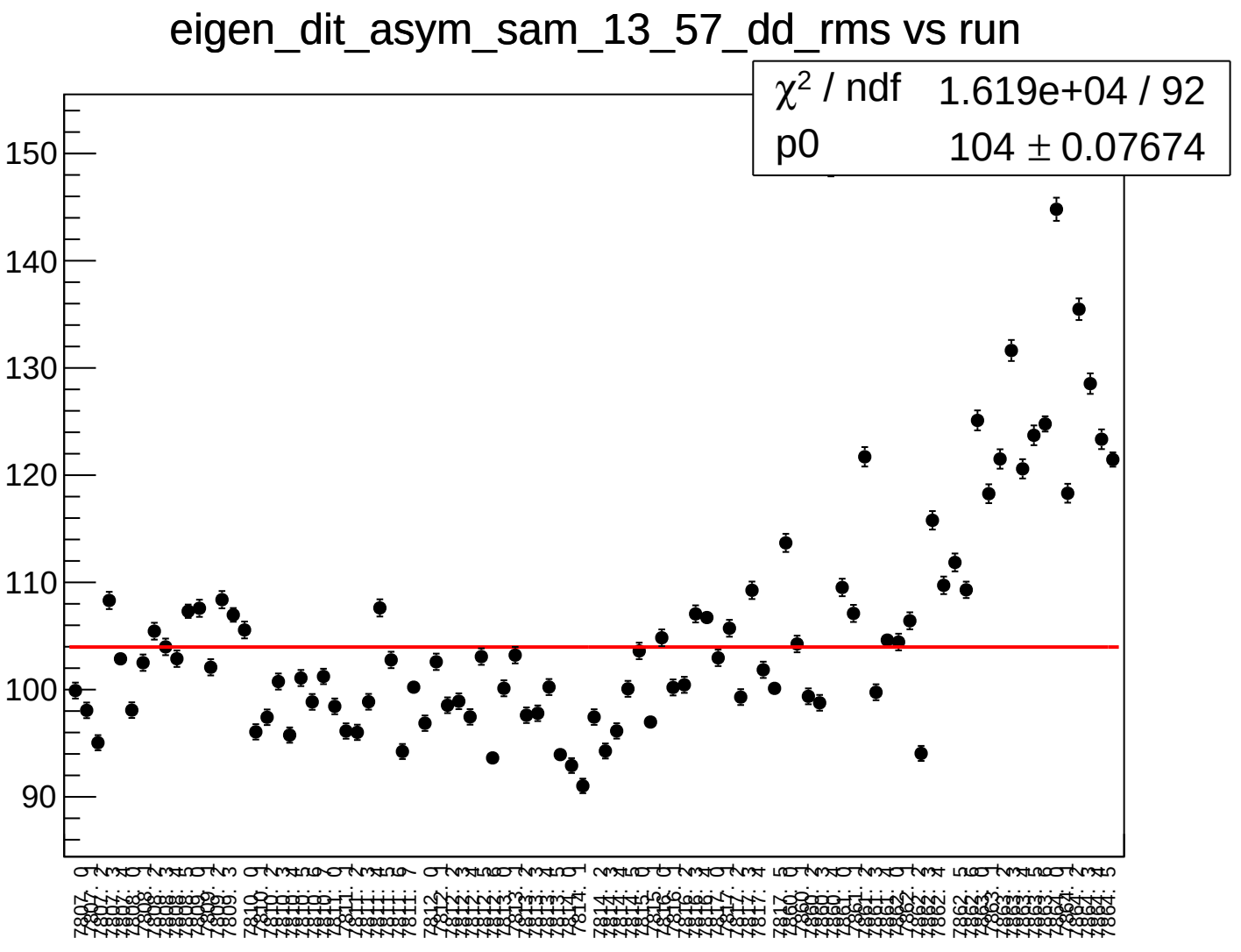

asym_sam_13_57_dd_dit_correction_mean vs run
χ² / ndf 89.93 / 92
p0 −71.77 ± 872
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −1.116
Std Dev 68.6
2
1
0
−1
−2

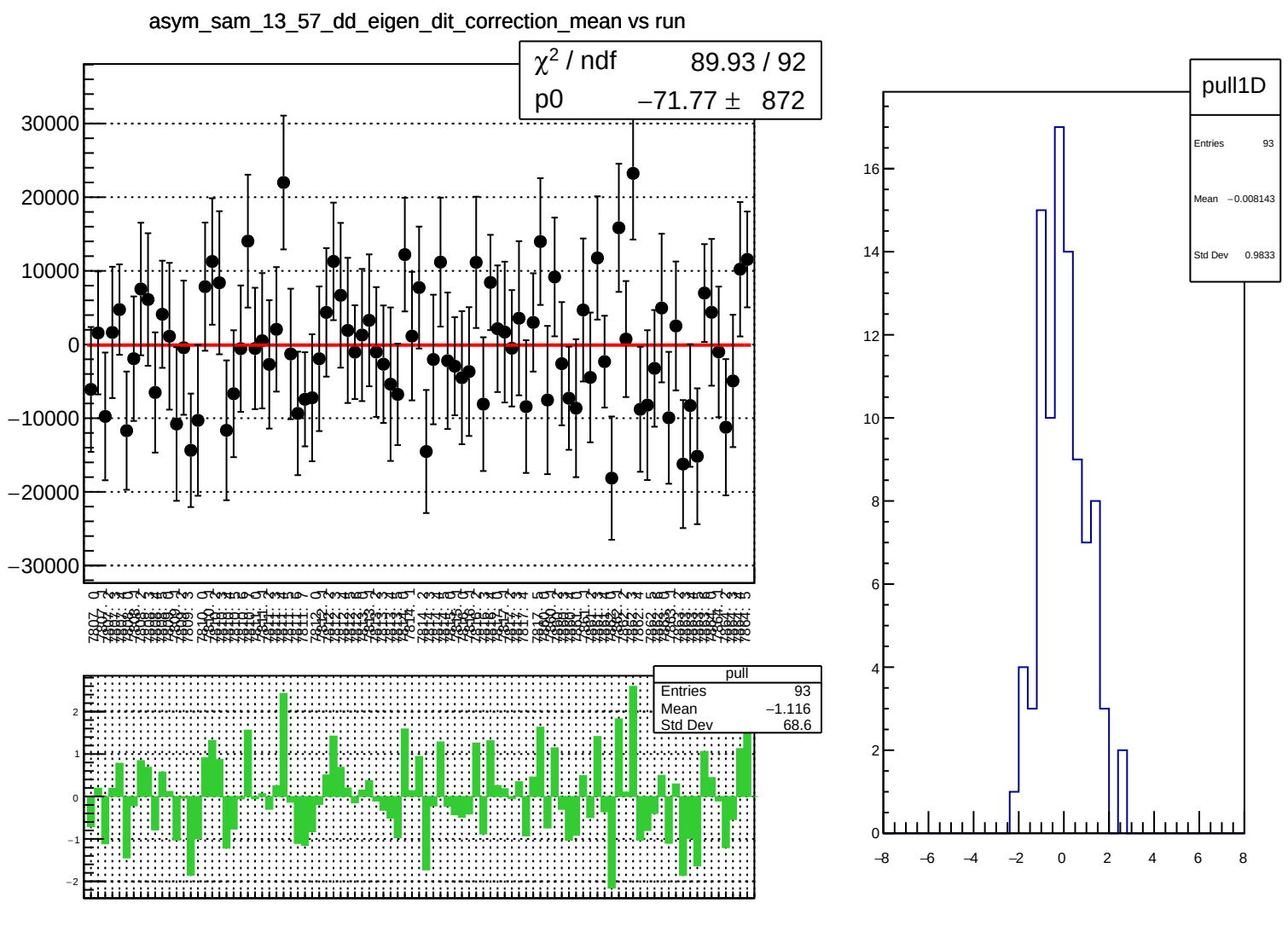

pull1D
Entries 93
Mean −0.008143
Std Dev 0.9833
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

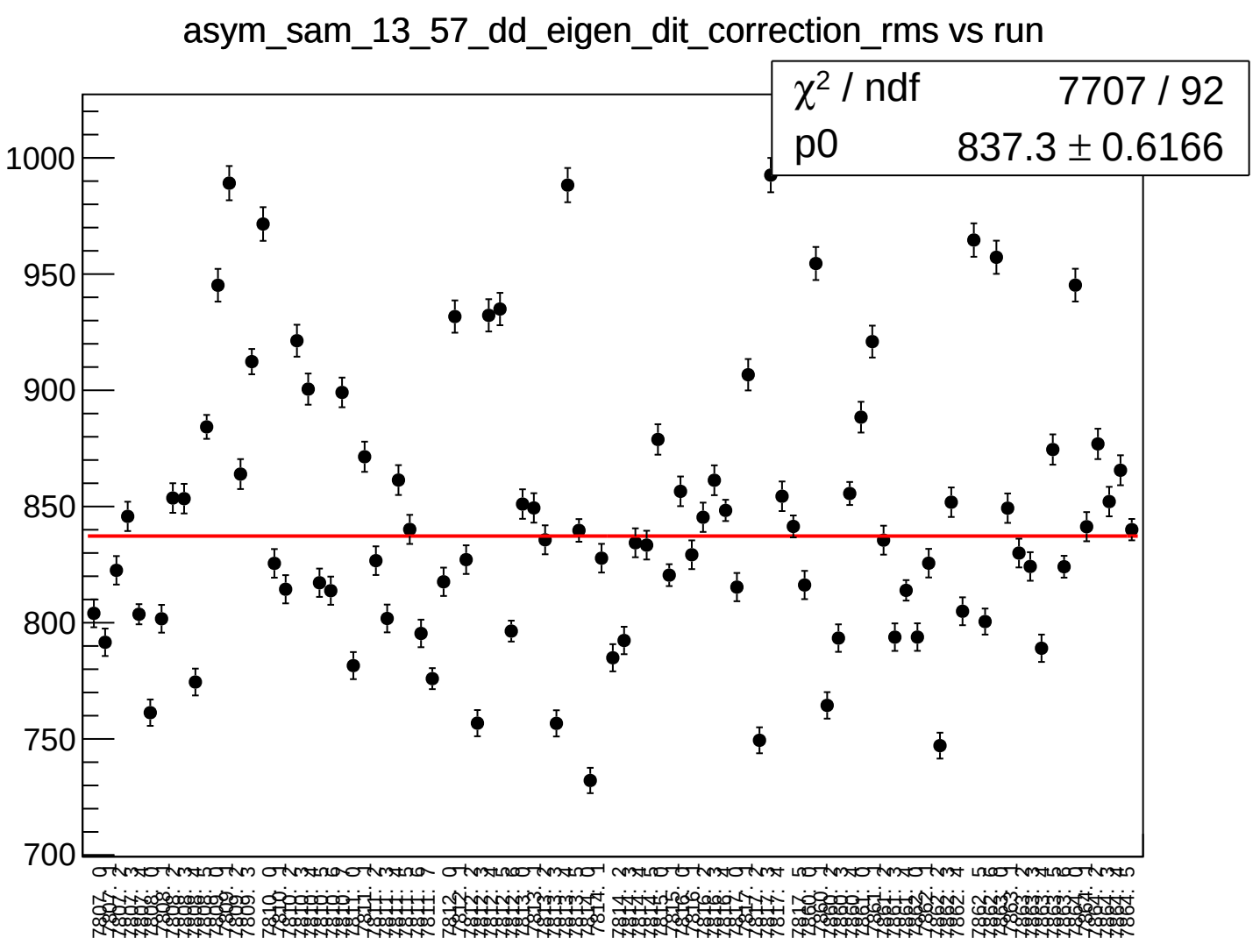

asym_sam_13_57_dd_dit_correction_rms vs run
χ² / ndf 7707 / 92
p0 837.3 ± 0.6166
1000
950
900
850
800
750
700

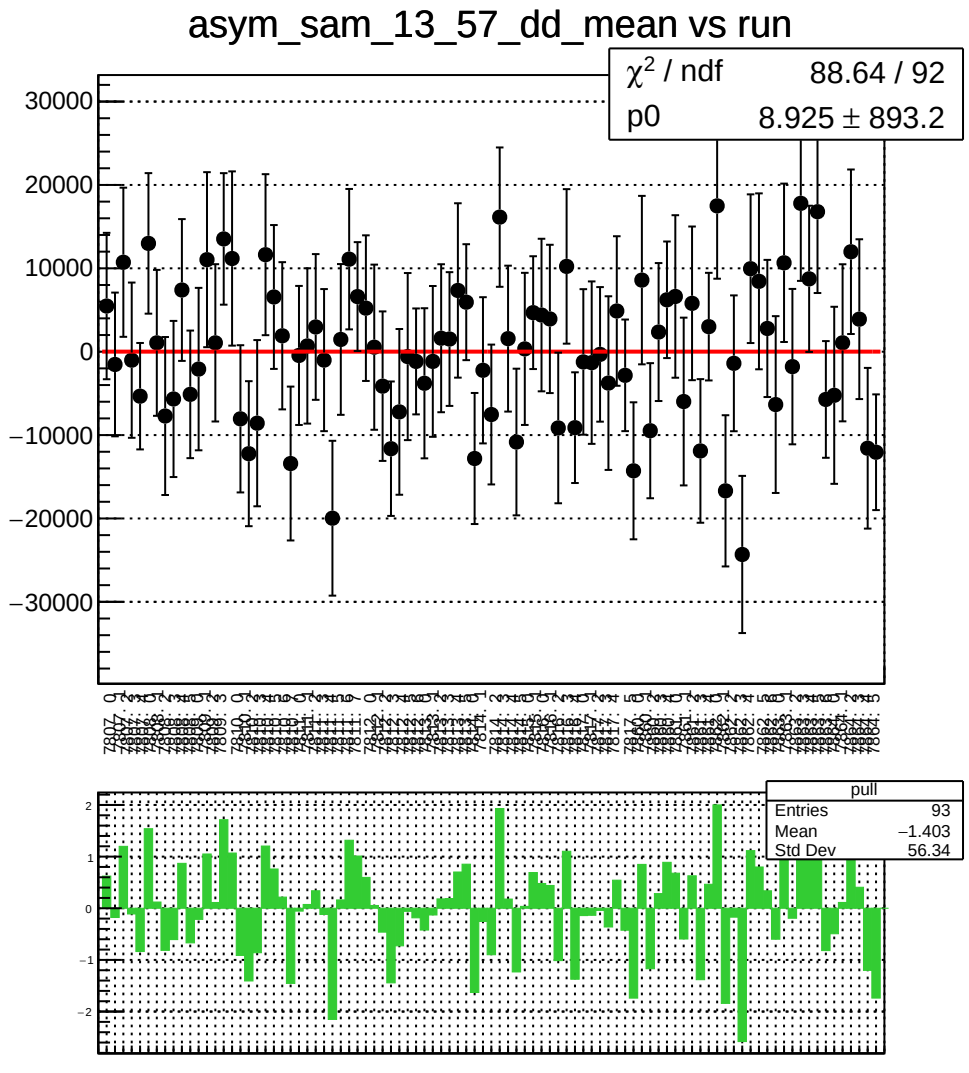

eigen_dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 107.6 / 92
p0 −43.04 ± 108.5
pull
Entries 93
Mean −4.9
Std Dev 0

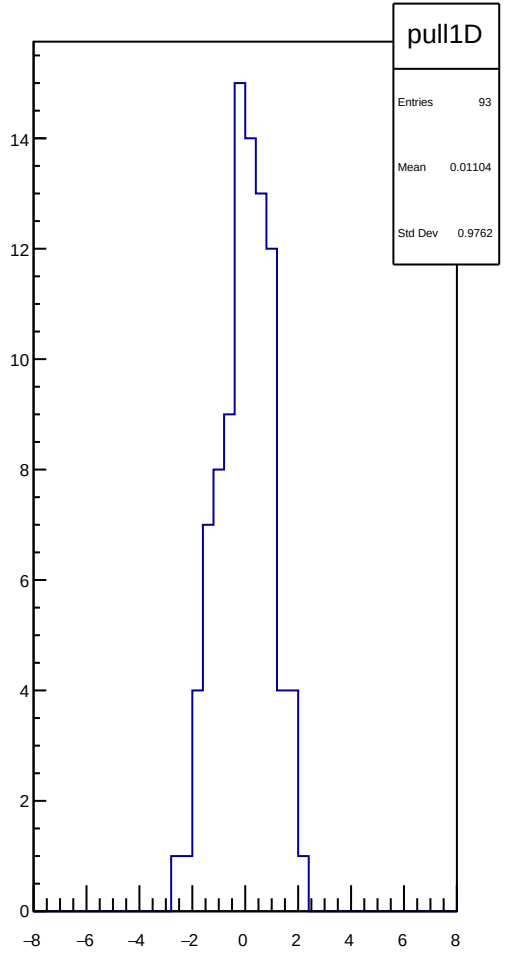

pull1D
Entries 93
Mean 0.01946
Std Dev 1.075

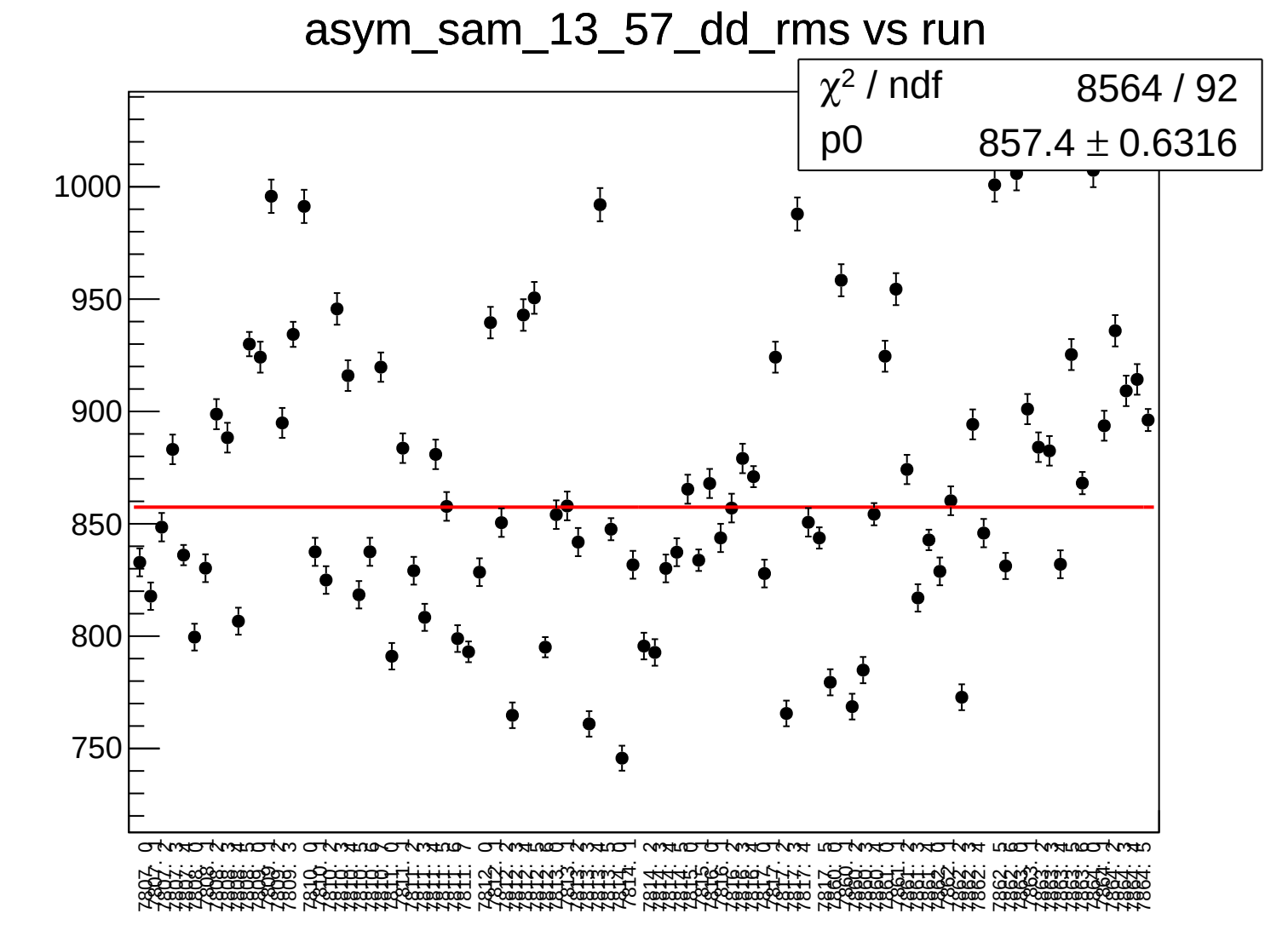

eigen_dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 1.619e+04 / 92
p0 104 ± 0.07674
150
140
130
120
110
100
90

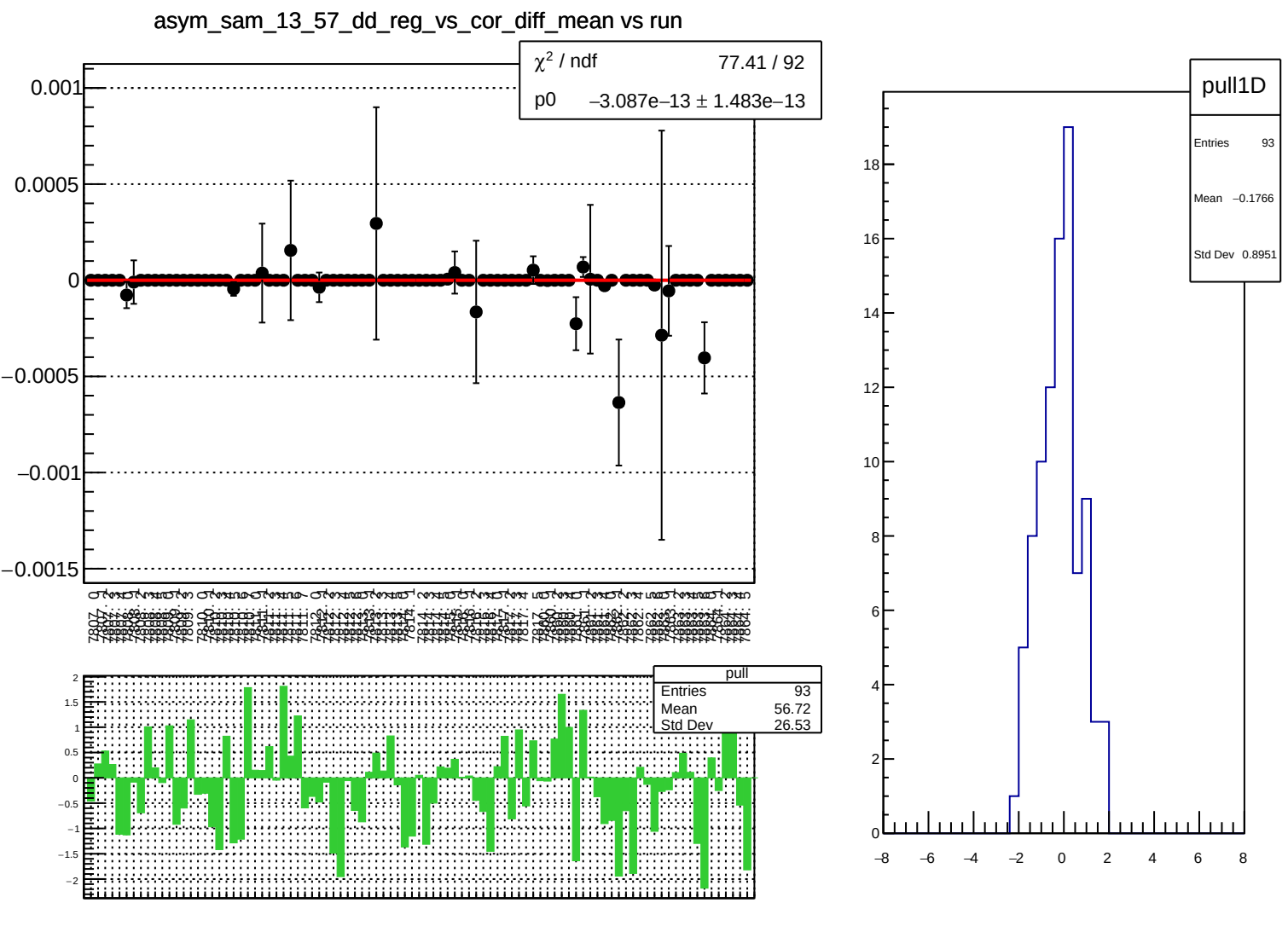

asym_sam_13_57_dd_eigen_dit_correction_mean vs run
χ² / ndf 89.93 / 92
p0 −71.77 ± 872
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −1.116
Std Dev 68.6
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.008143
Std Dev 0.9833
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

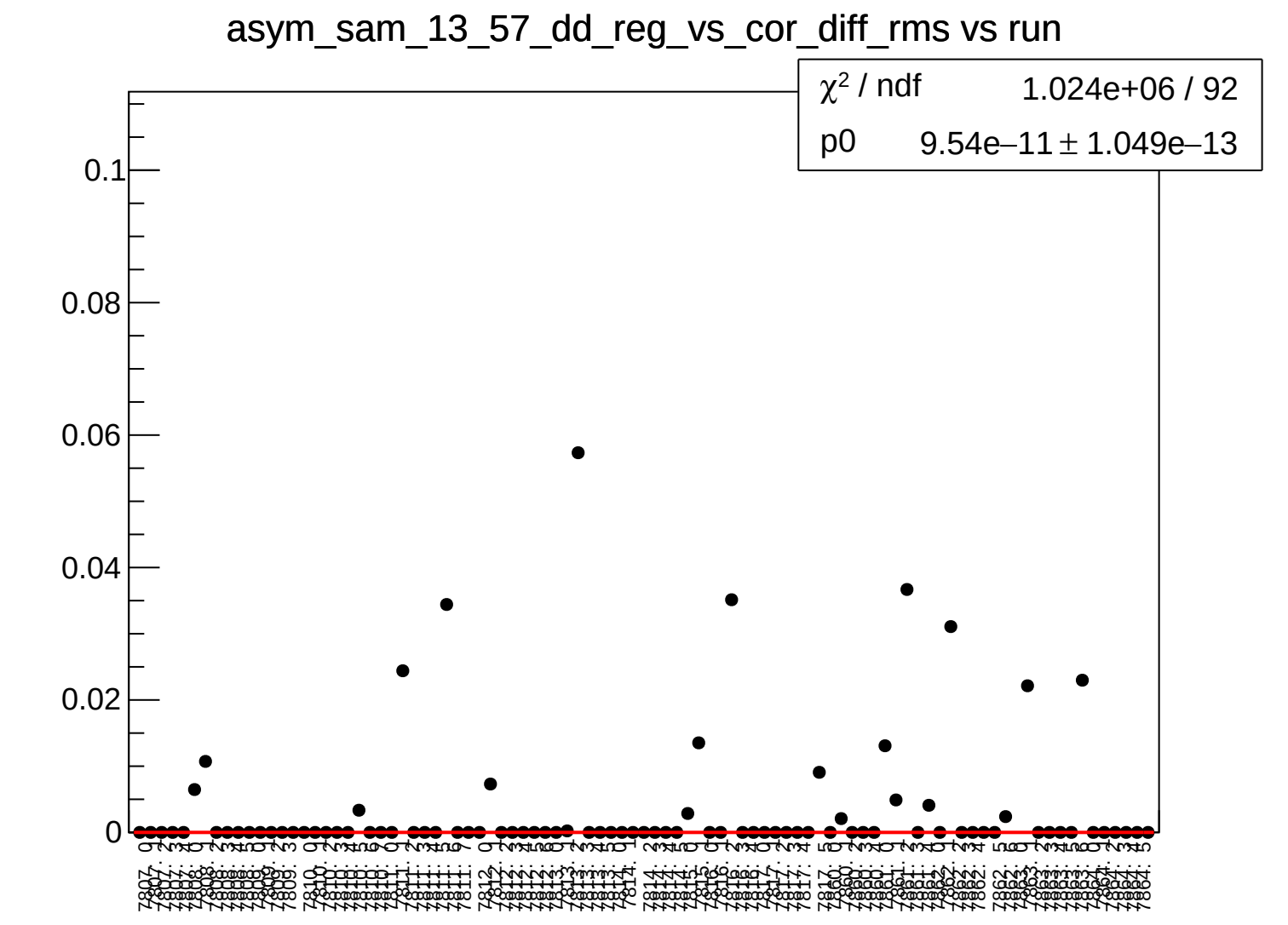

asym_sam_13_57_dd_eigen_dit_correction_rms vs run
χ² / ndf 7707 / 92
p0 837.3 ± 0.6166
1000
950
900
850
800
750
700

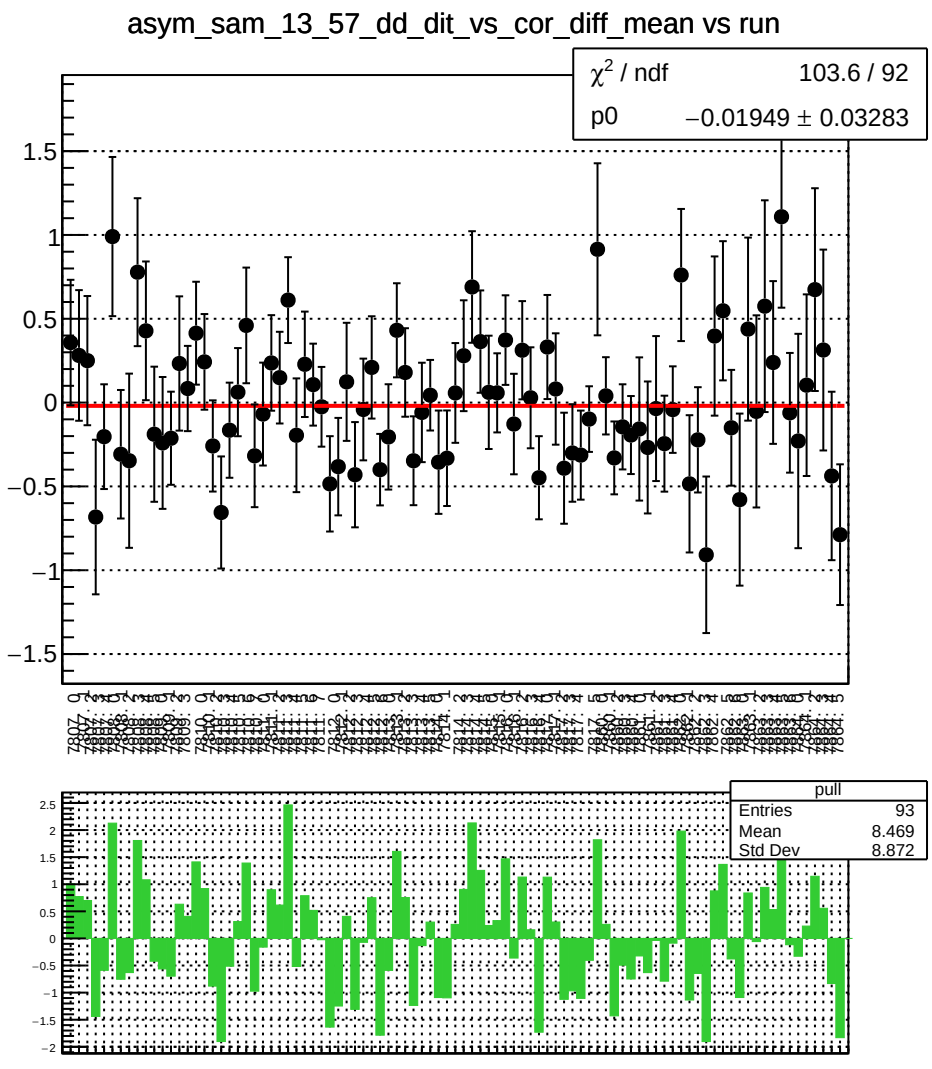

asym_sam_13_57_dd_mean vs run
χ² / ndf 88.64 / 92
p0 8.925 ± 893.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −1.403
Std Dev 56.34
2
1
0
−1
−2

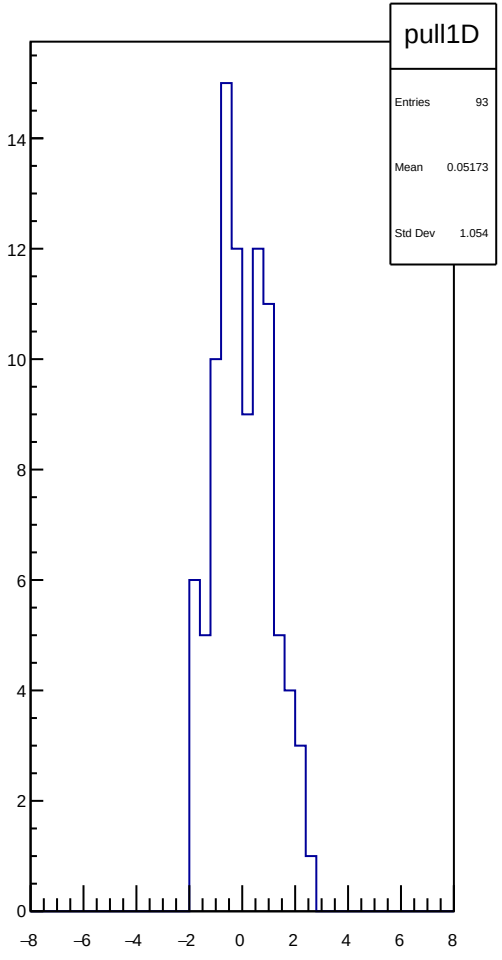

pull1D
Entries 93
Mean 0.01104
Std Dev 0.9762
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

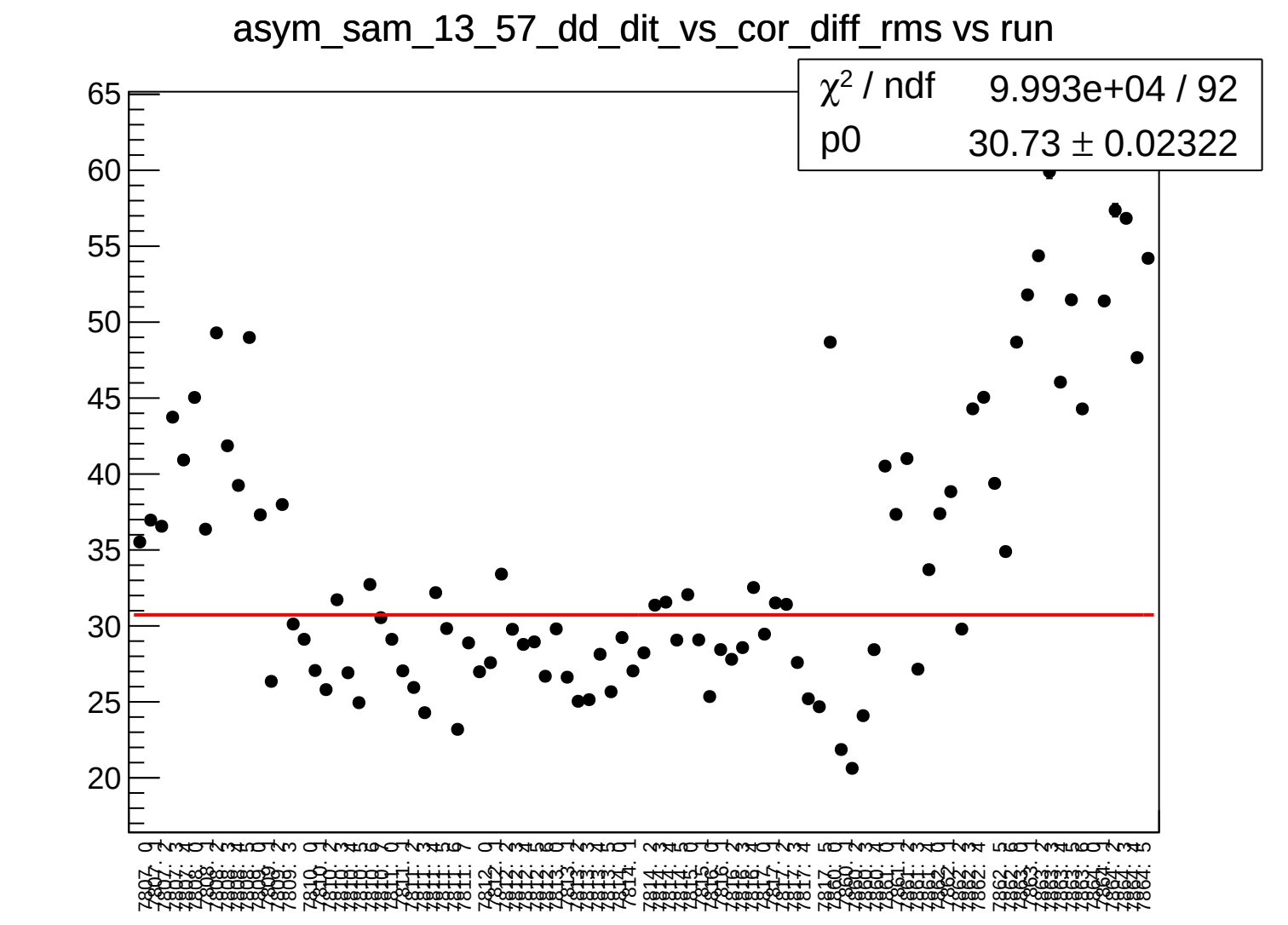

asym_sam_13_57_dd_rms vs run
χ² / ndf 8564 / 92
p0 857.4 ± 0.6316
1000
950
900
850
800
750

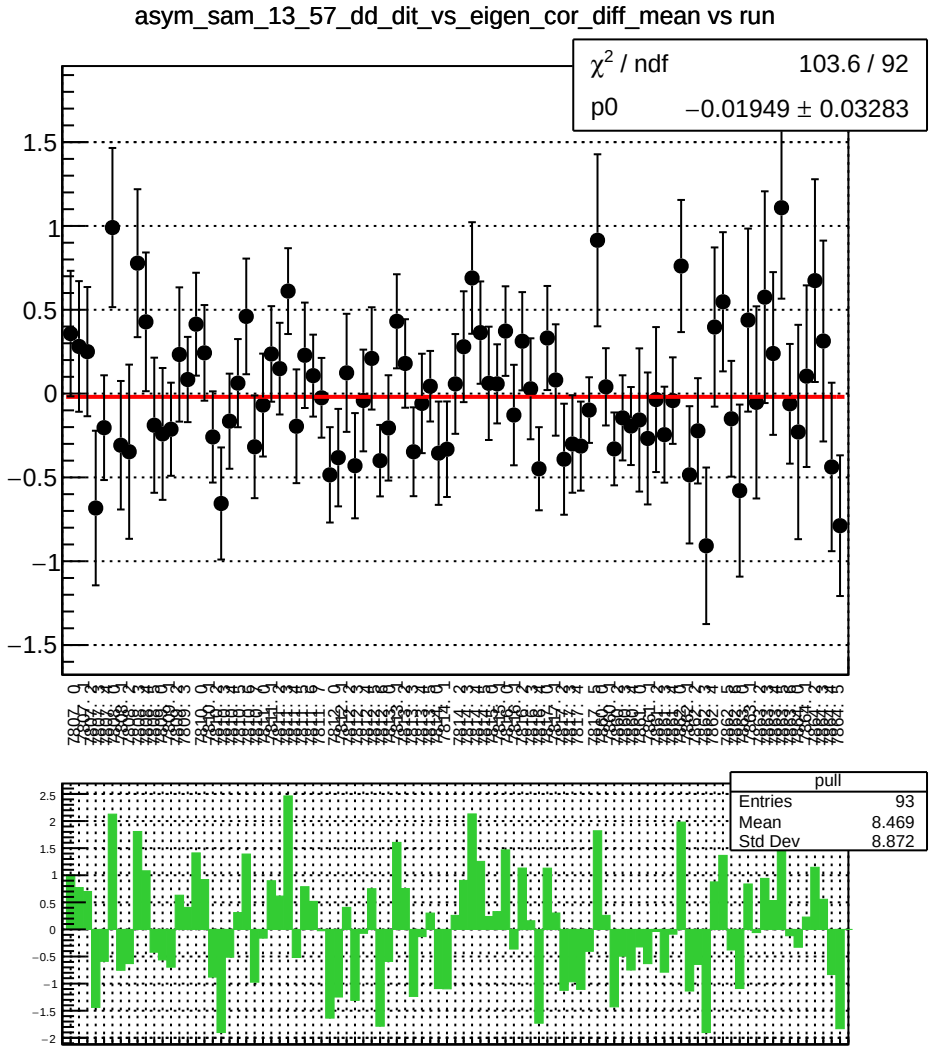

asym_sam_13_57_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 77.41 / 92
p0 −3.087e−13 ± 1.483e−13
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 93
Mean 56.72
Std Dev 26.53
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean −0.1766
Std Dev 0.8951
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

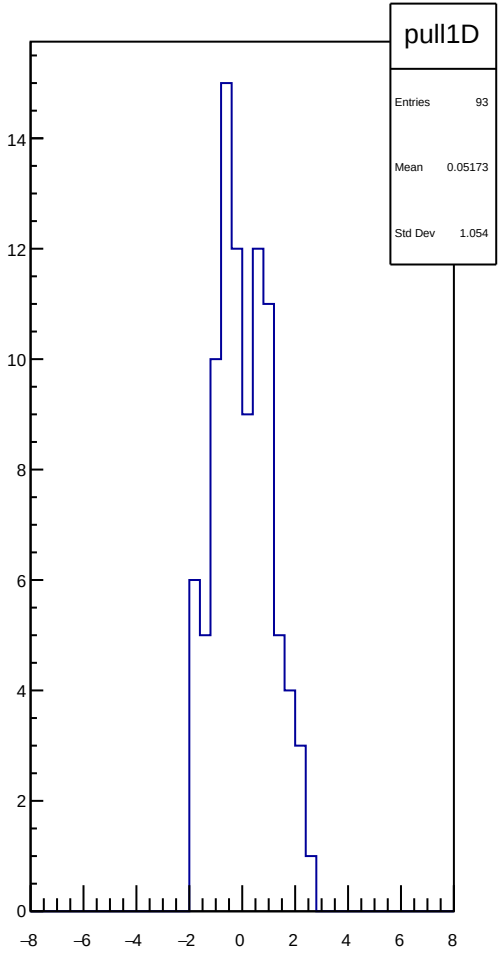

asym_sam_13_57_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.024e+06 / 92
p0 9.54e−11 ± 1.049e−13
0.1
0.08
0.06
0.04
0.02
0

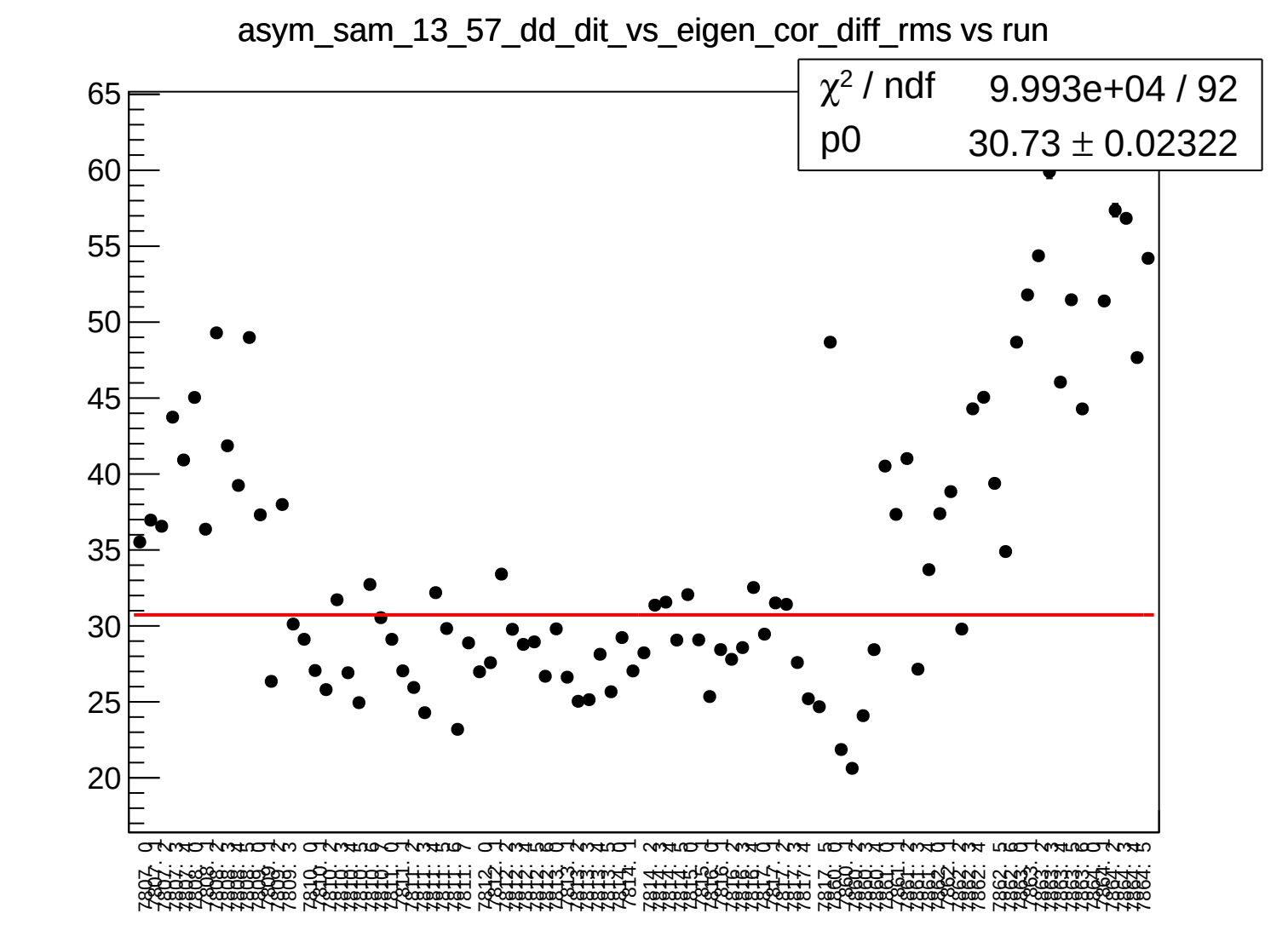

asym_sam_13_57_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 103.6 / 92
p0 −0.01949 ± 0.03283
pull
Entries 93
Mean 8.469
Std Dev 8.872

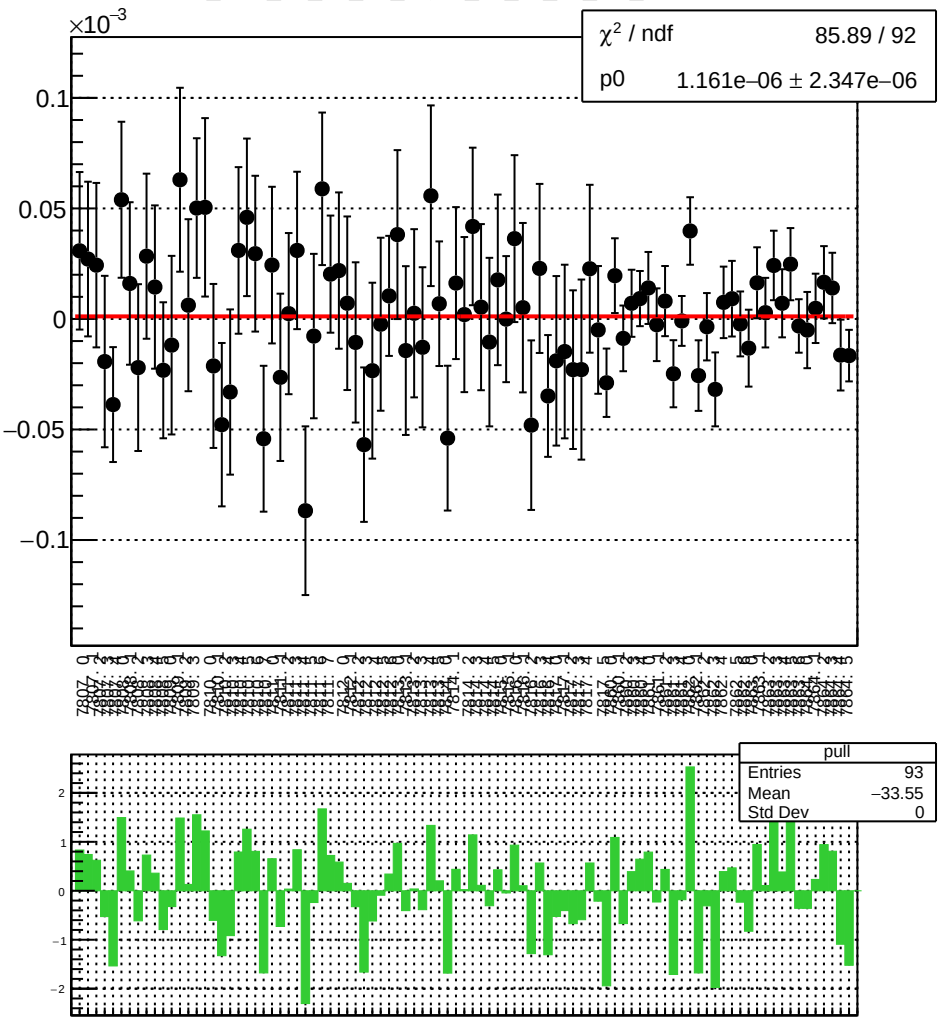

pull1D
Entries 93
Mean 0.05173
Std Dev 1.054

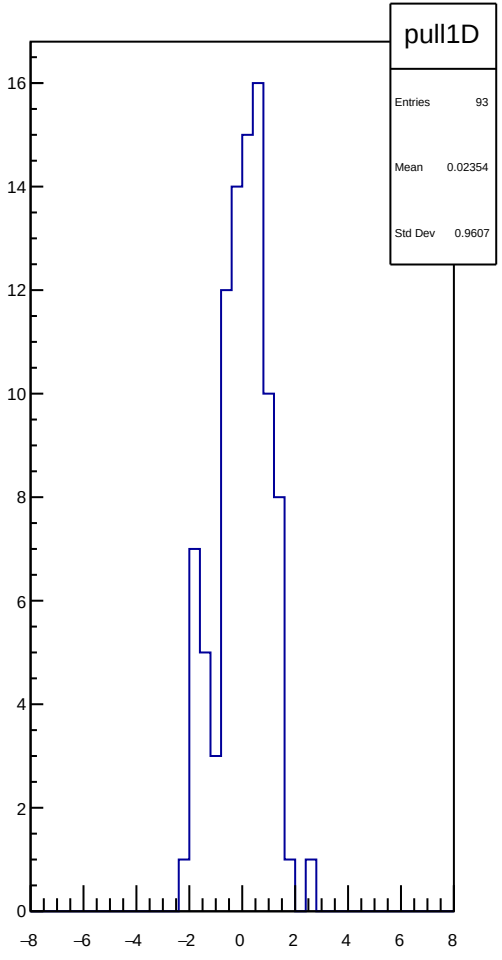

asym_sam_13_57_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9.993e+04 / 92
p0 30.73 ± 0.02322
65
60
55
50
45
40
35
30
25
20

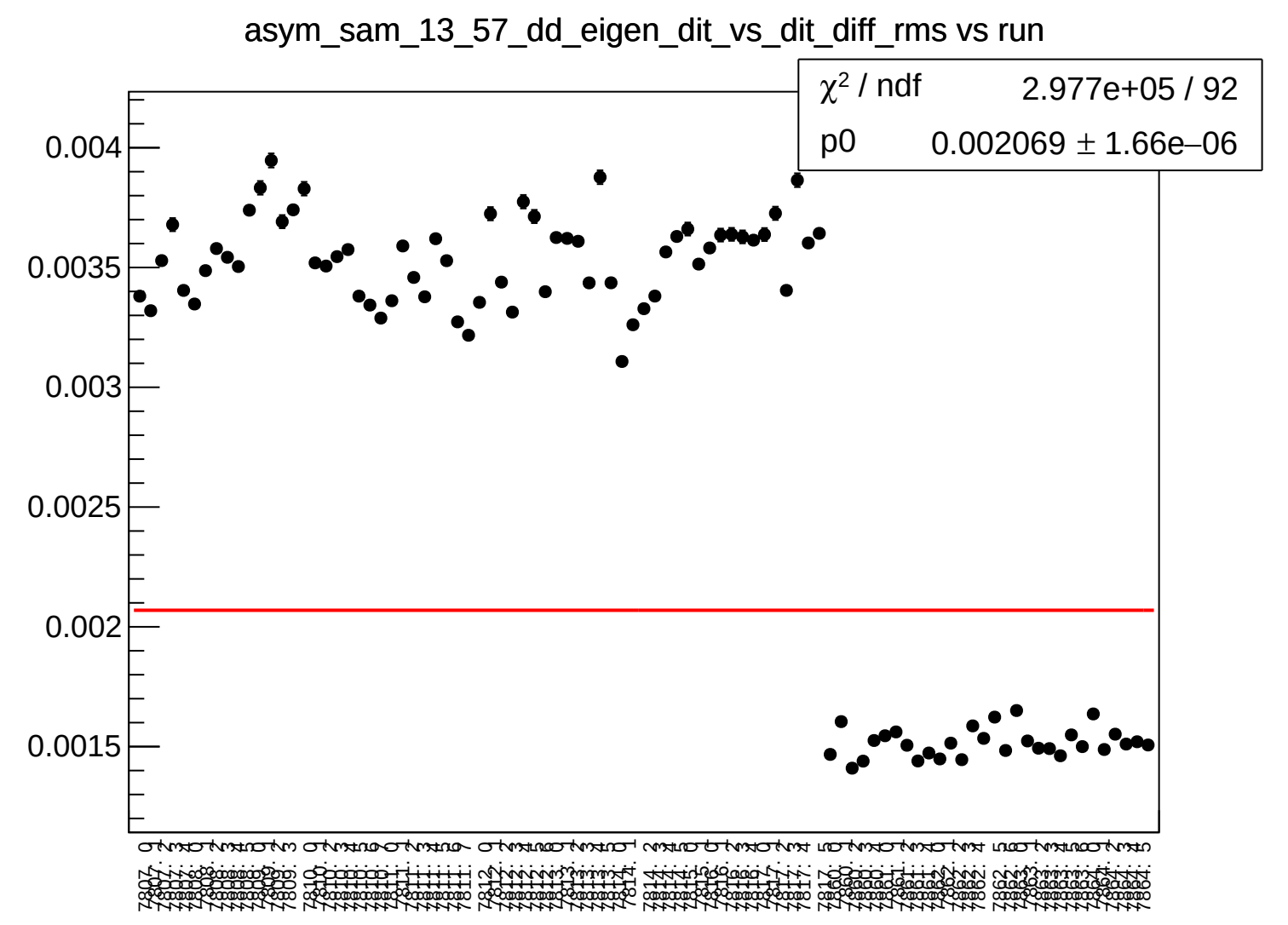

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.6 / 92
p0 −0.01949 ± 0.03283
pull
Entries 93
Mean 8.469
Std Dev 8.872

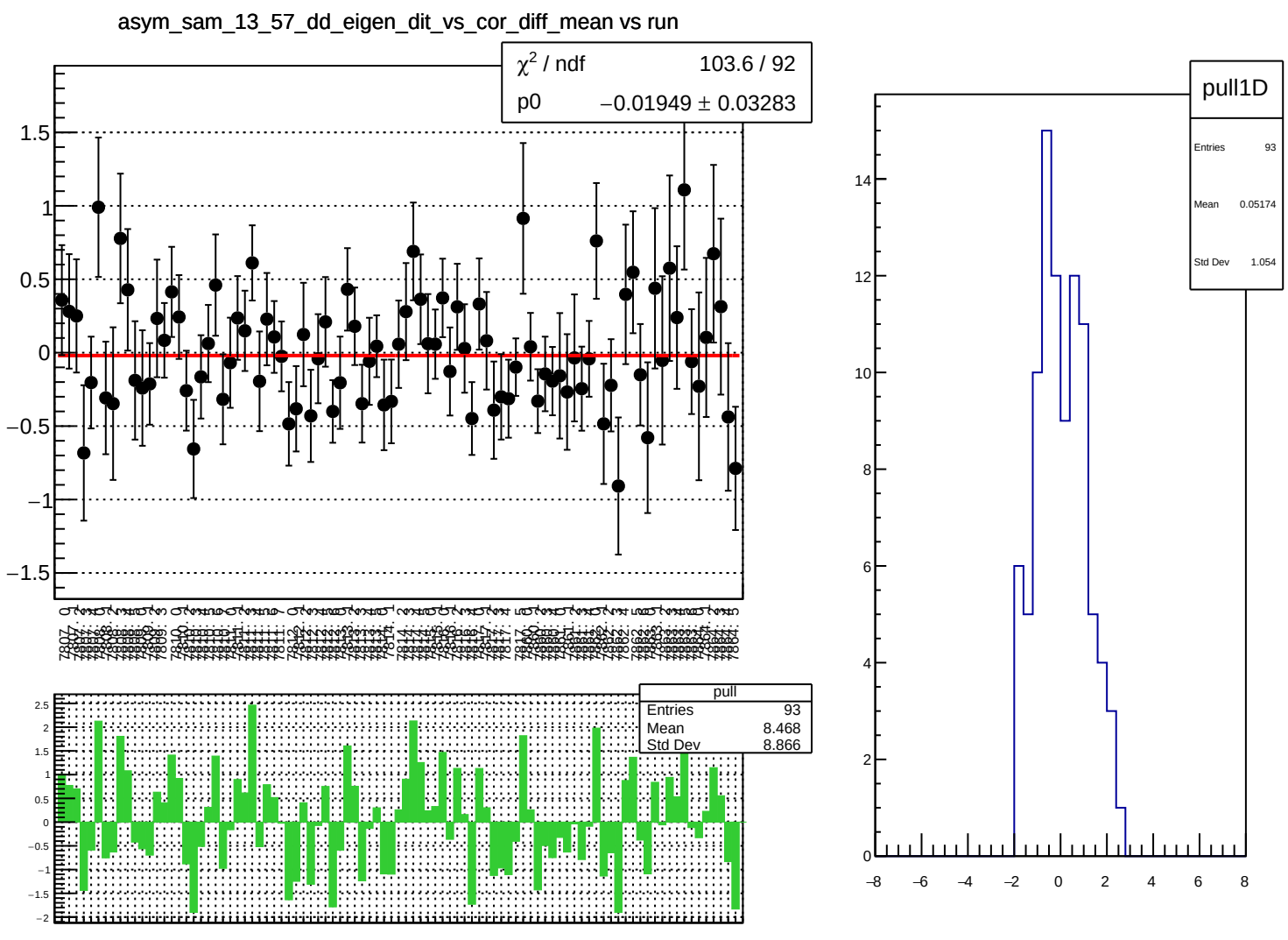

pull1D
Entries 93
Mean 0.05173
Std Dev 1.054

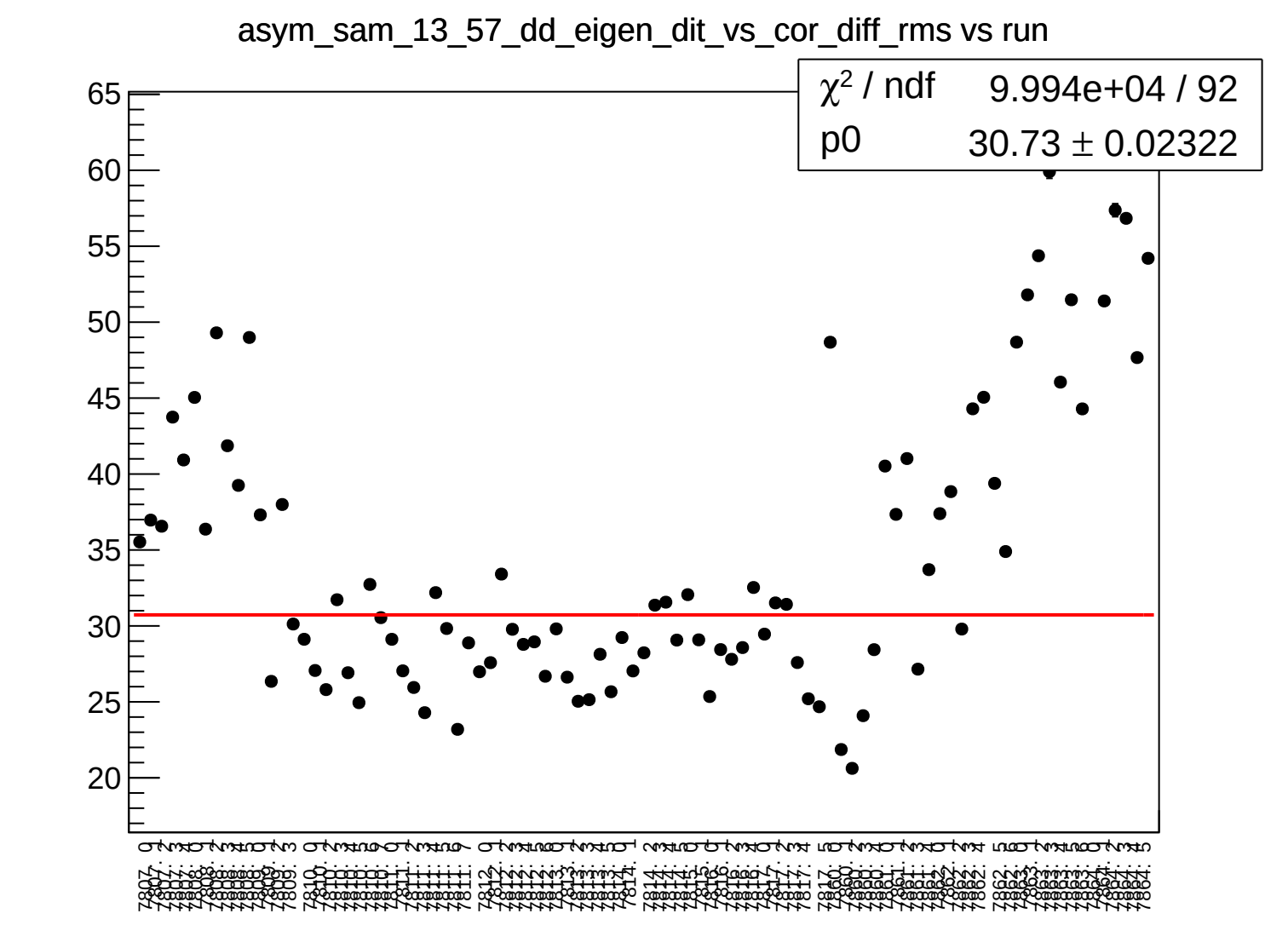

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.993e+04 / 92
p0 30.73 ± 0.02322
65
60
55
50
45
40
35
30
25
20

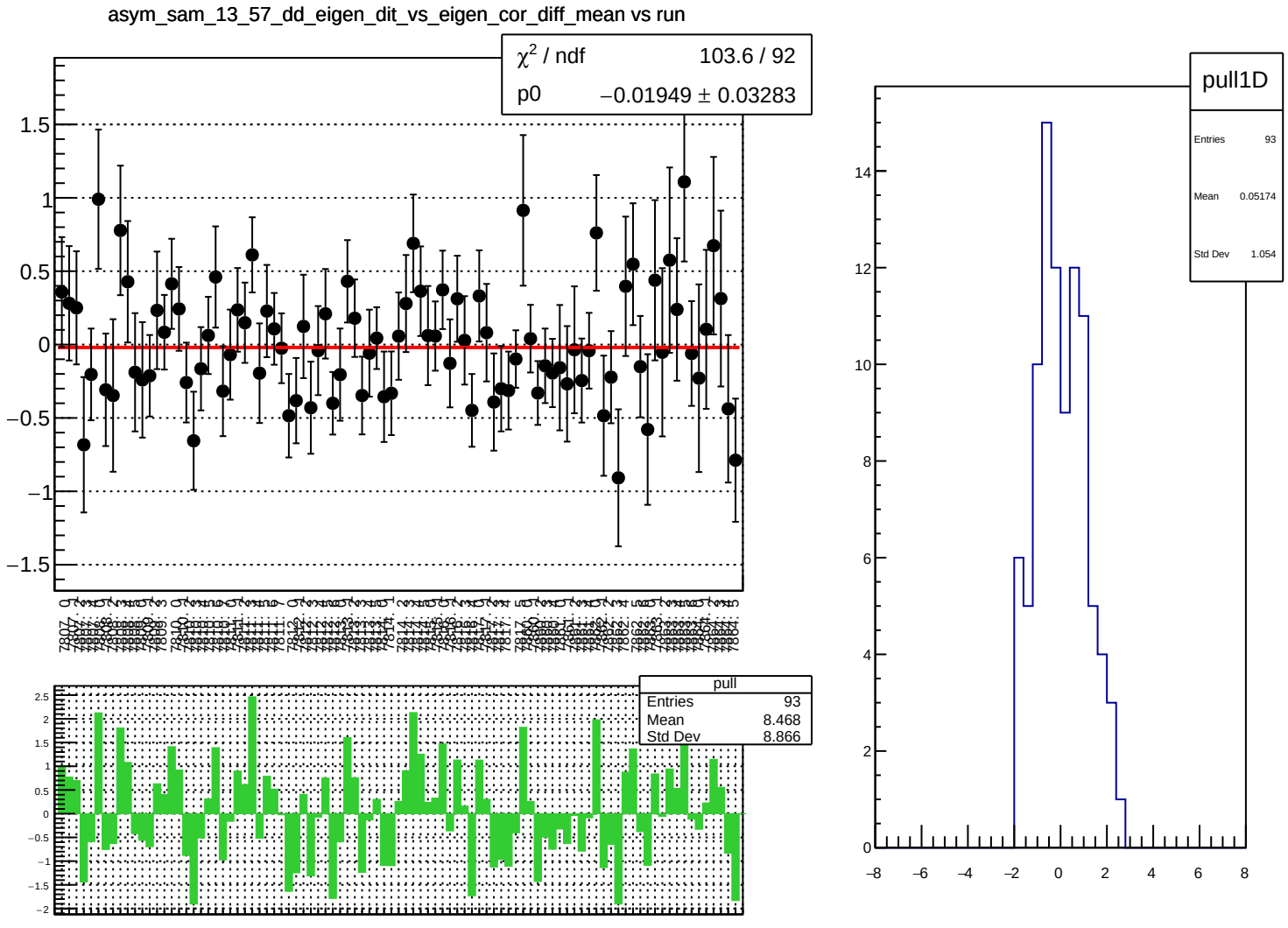

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.89 / 92
p0 1.161e−06 ± 2.347e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 93
Mean −33.55
Std Dev 0
2
1
0
−1
−2

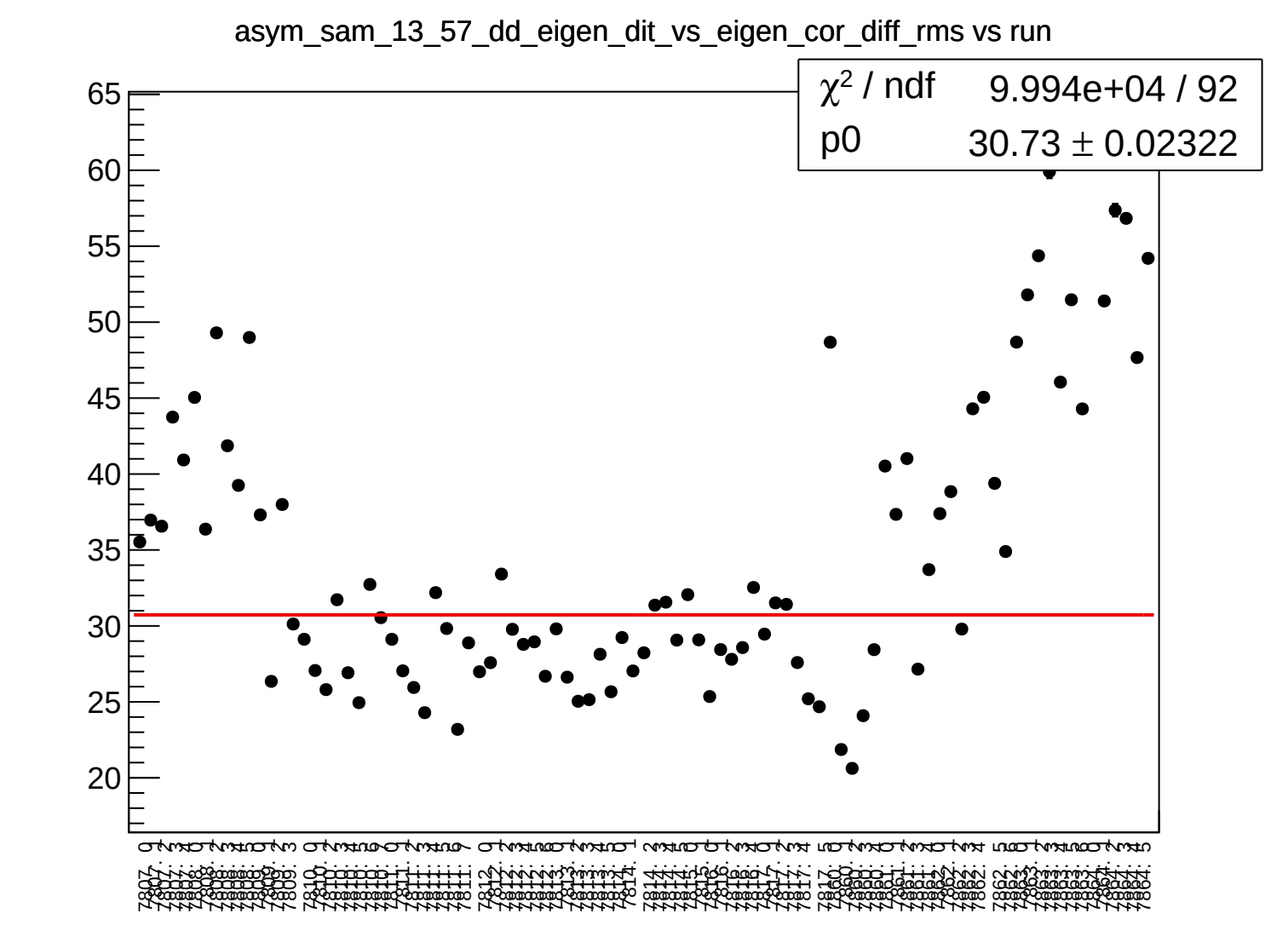

pull1D
Entries 93
Mean 0.02354
Std Dev 0.9607
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

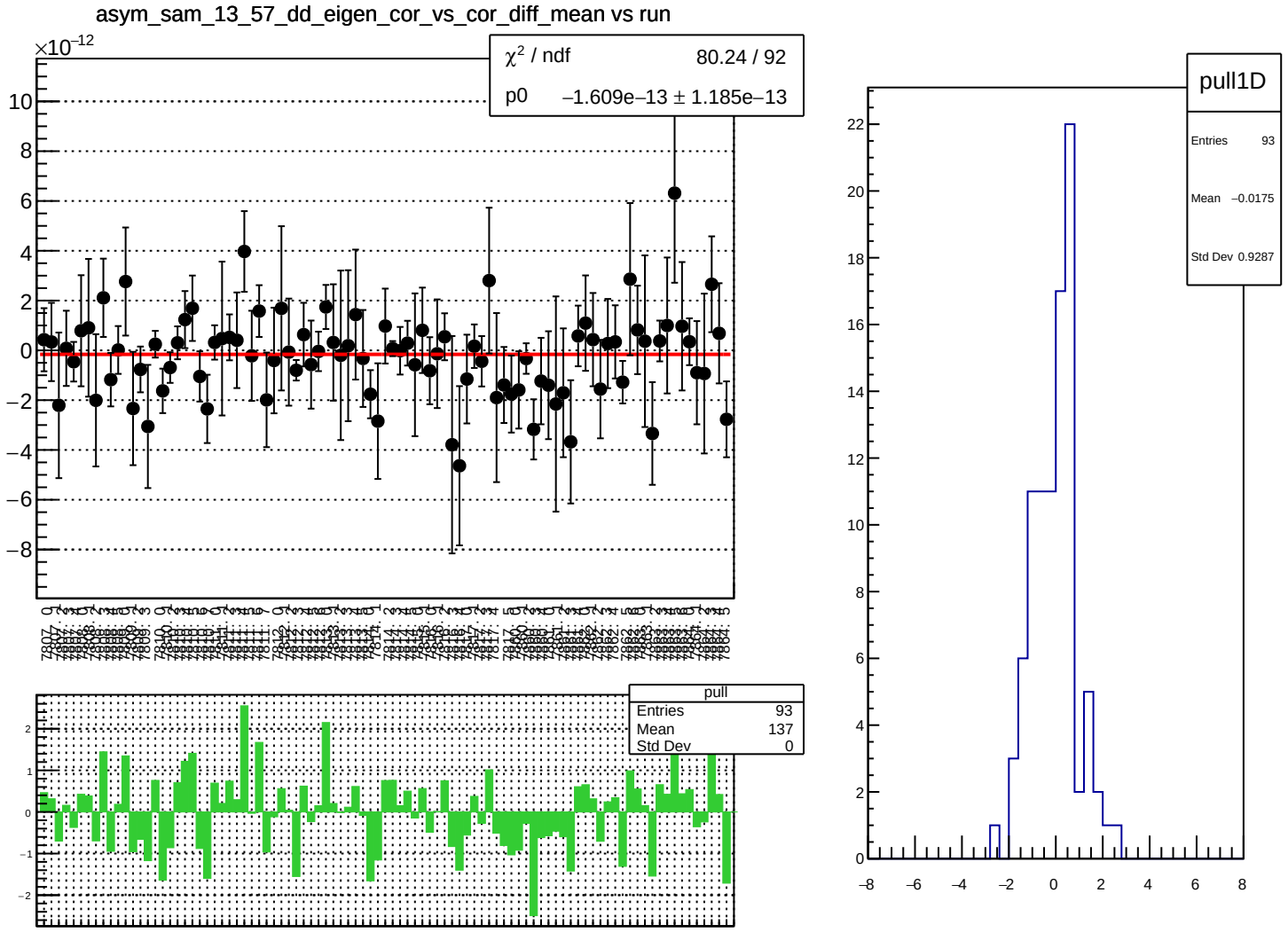

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.977e+05 / 92
p0 0.002069 ± 1.66e–06
0.004
0.0035
0.003
0.0025
0.002
0.0015

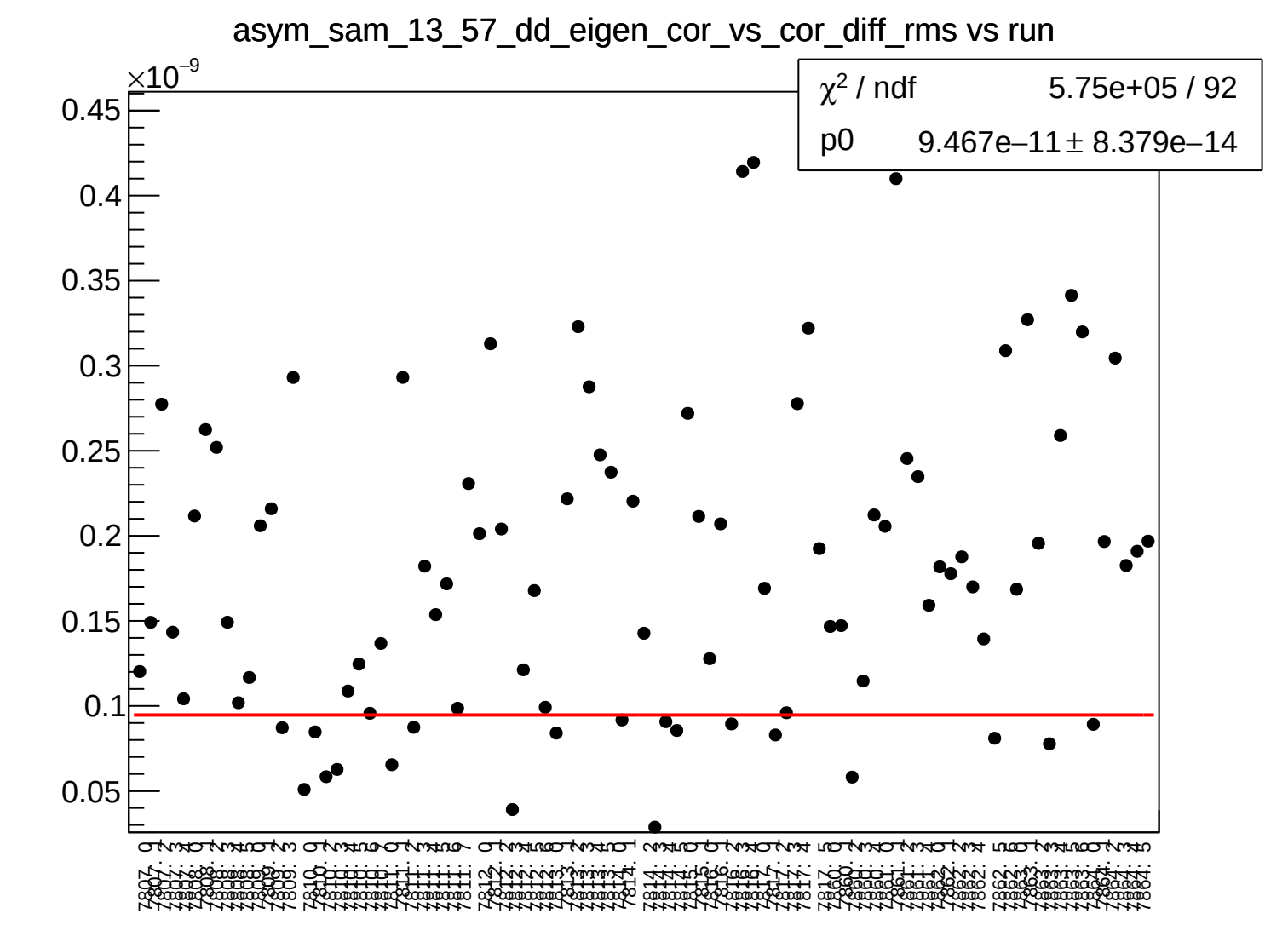

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 103.6 / 92
p0 −0.01949 ± 0.03283
pull
Entries 93
Mean 8.468
Std Dev 8.866
pull1D
Entries 93
Mean 0.05174
Std Dev 1.054

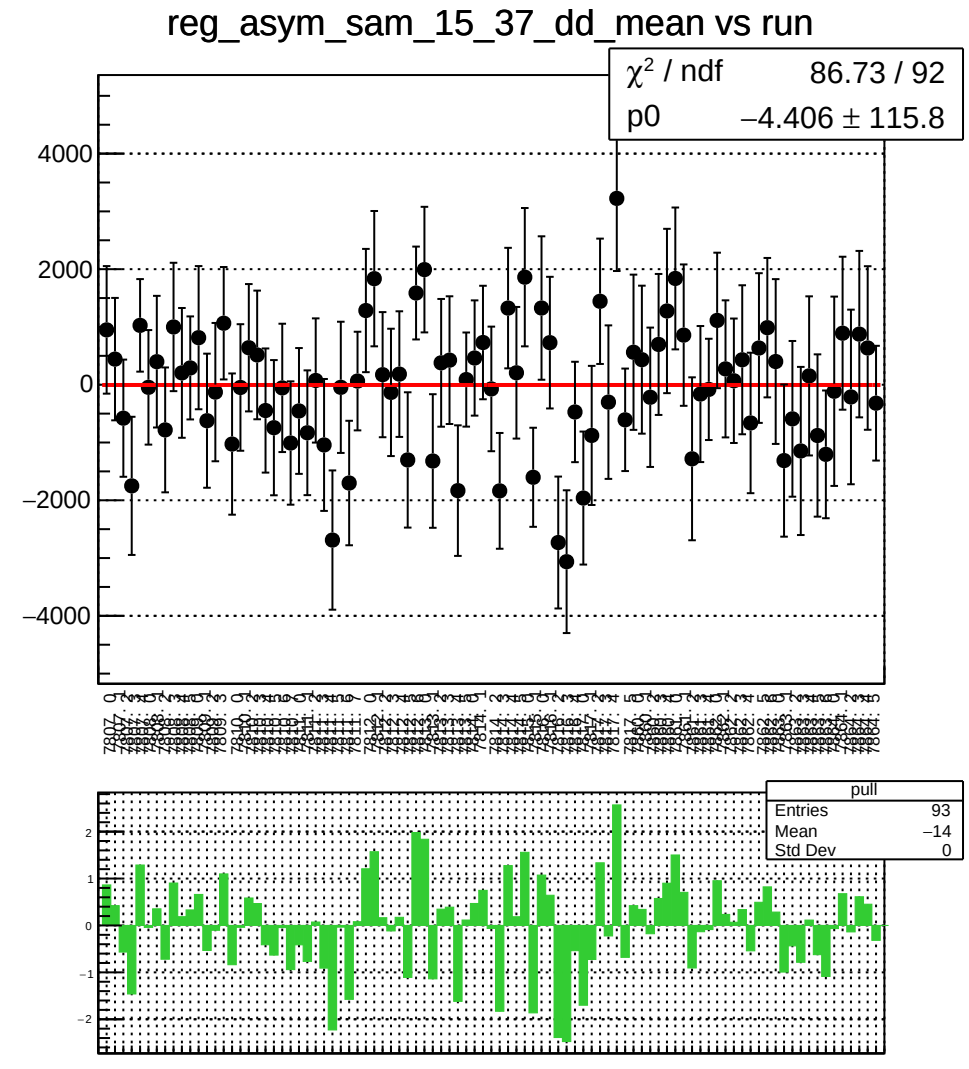

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.994e+04 / 92
p0 30.73 ± 0.02322
65
60
55
50
45
40
35
30
25
20

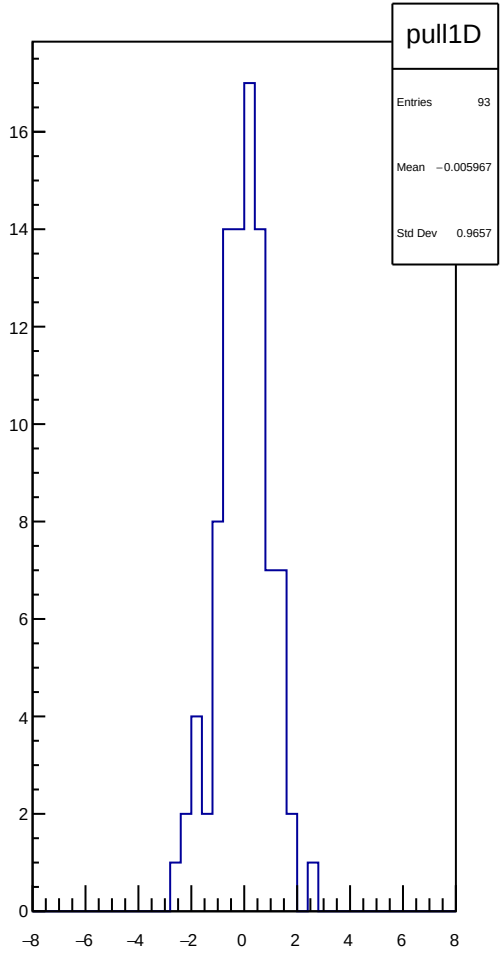

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.6 / 92
p0 −0.01949 ± 0.03283
pull
Entries 93
Mean 8.468
Std Dev 8.866
pull1D
Entries 93
Mean 0.05174
Std Dev 1.054

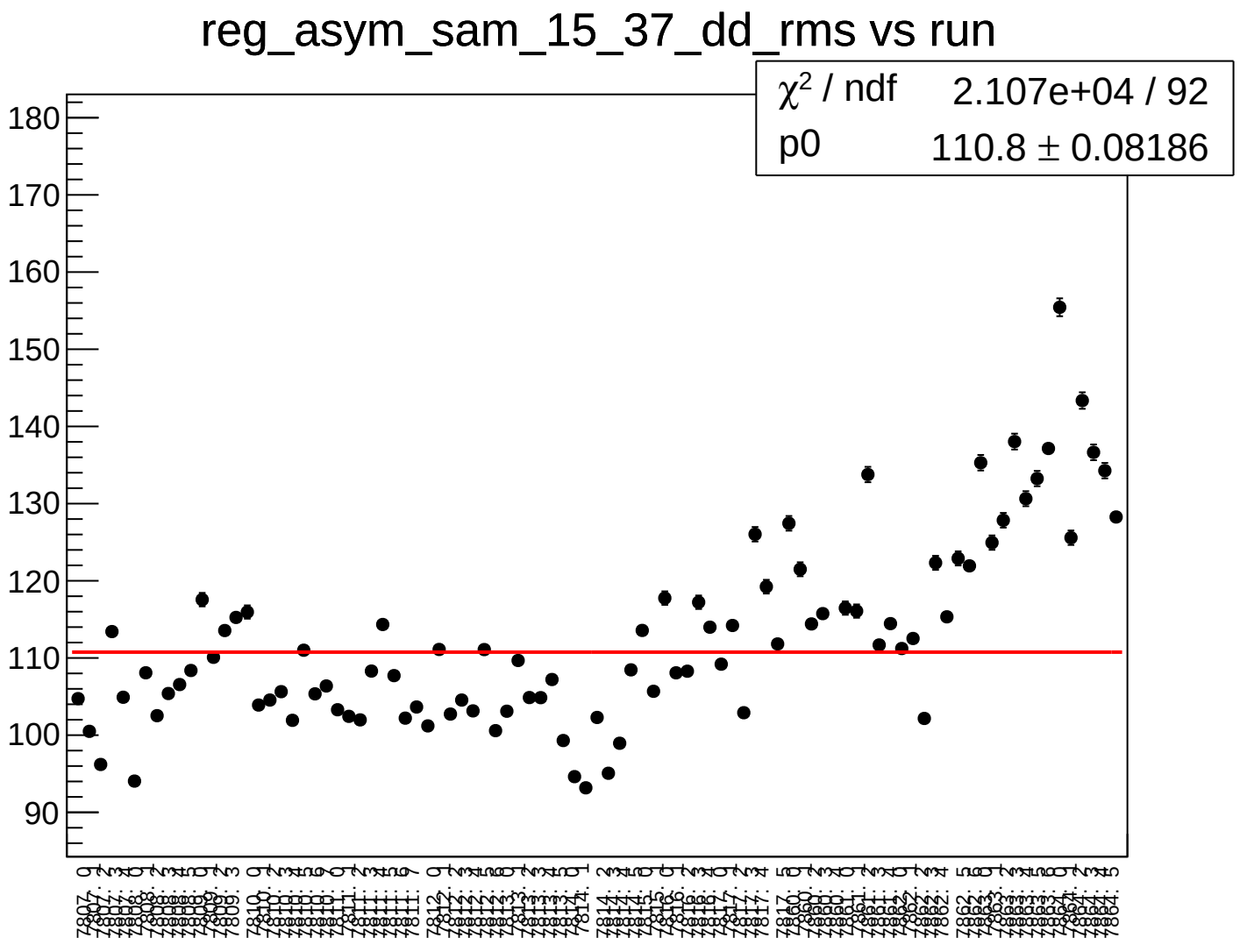

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 9.994e+04 / 92
p0 30.73 ± 0.02322
65
60
55
50
45
40
35
30
25
20

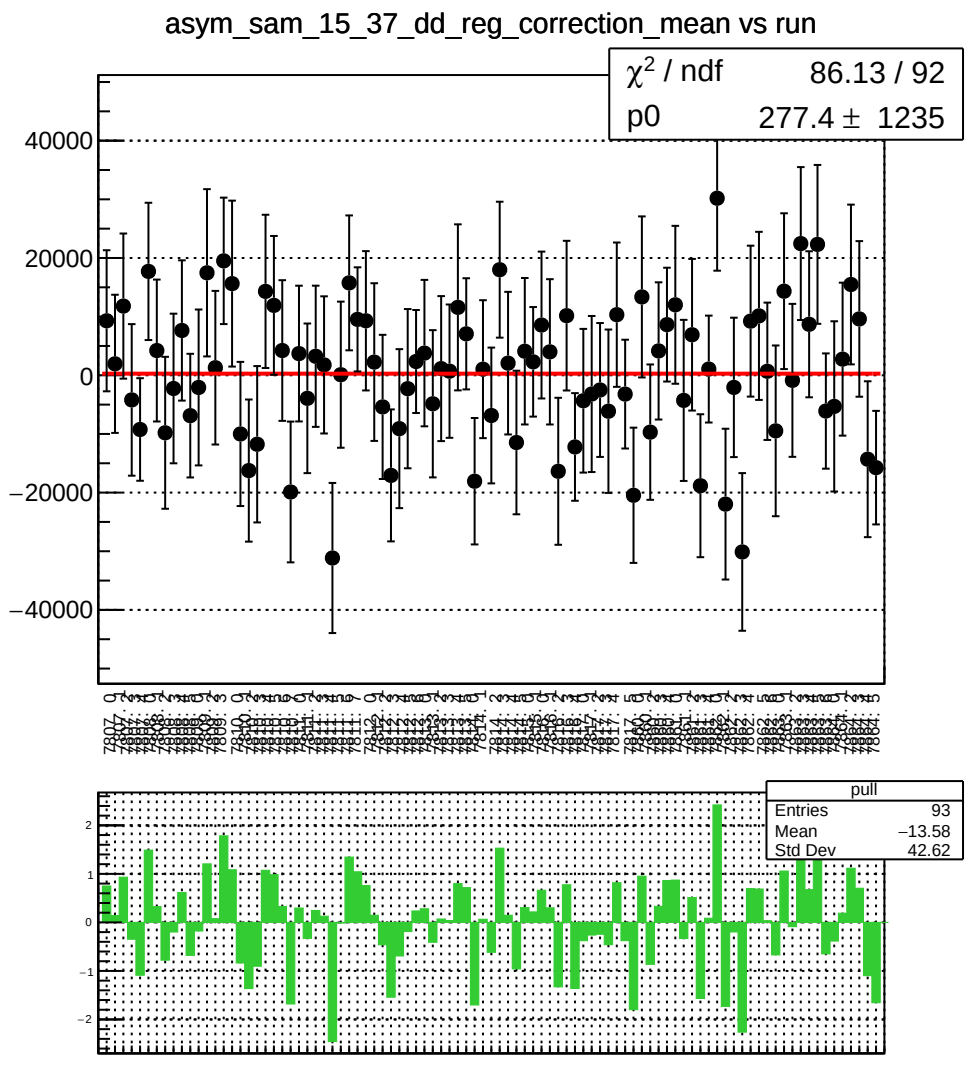

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.24 / 92
p0 −1.609e−13 ± 1.185e−13
pull
Entries 93
Mean 137
Std Dev 0
pull1D
Entries 93
Mean −0.0175
Std Dev 0.9287

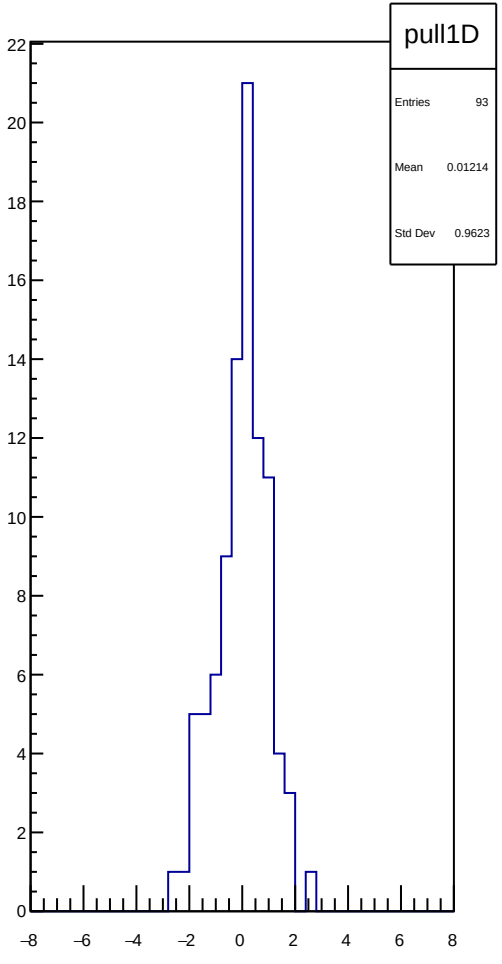

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.75e+05 / 92
p0 9.467e−11 ± 8.379e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

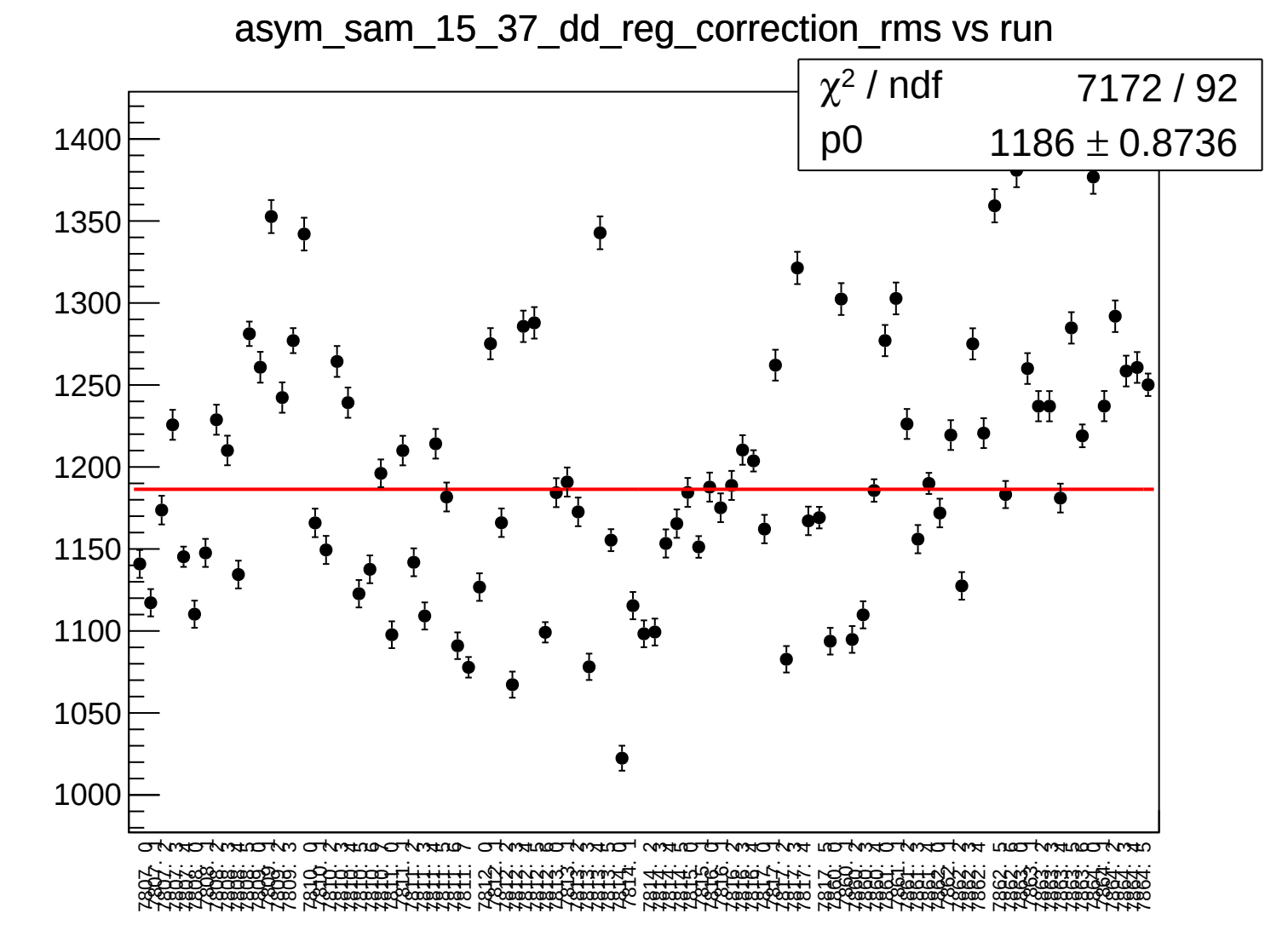

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 86.73 / 92
p0 −4.406 ± 115.8
4000
2000
0
−2000
−4000
pull
Entries 93
Mean −14
Std Dev 0
2
1
0
−1
−2

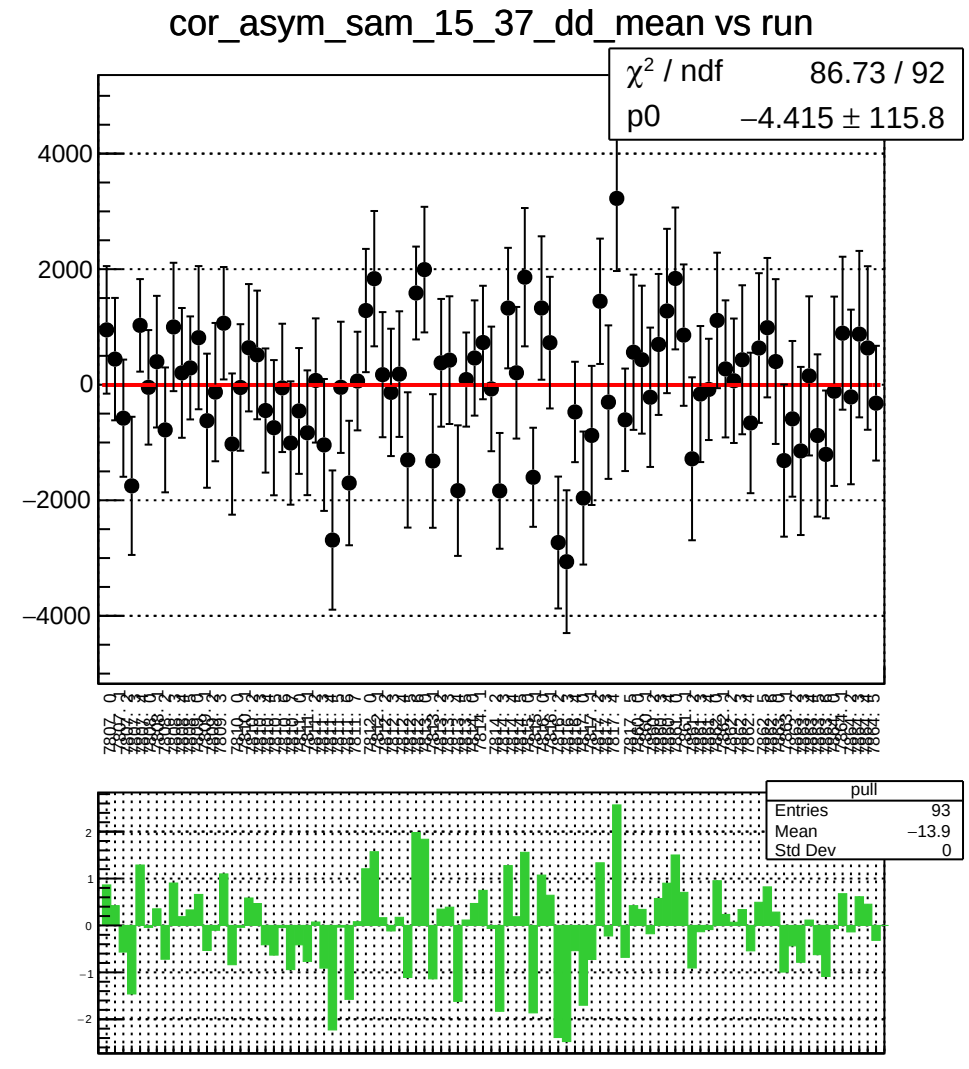

pull1D
Entries 93
Mean −0.005967
Std Dev 0.9657
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

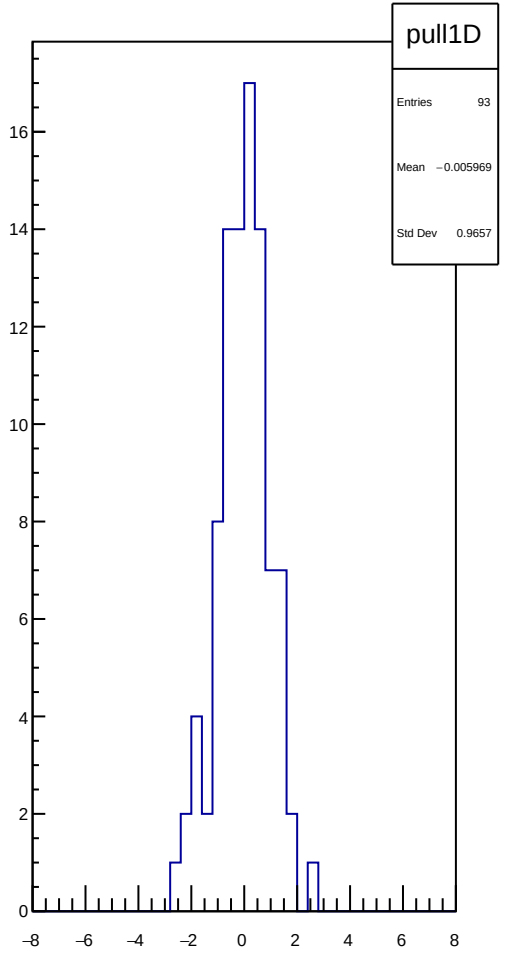

reg_asym_sam_15_37_dd_rms vs run
χ² / ndf 2.107e+04 / 92
p0 110.8 ± 0.08186
180
170
160
150
140
130
120
110
100
90

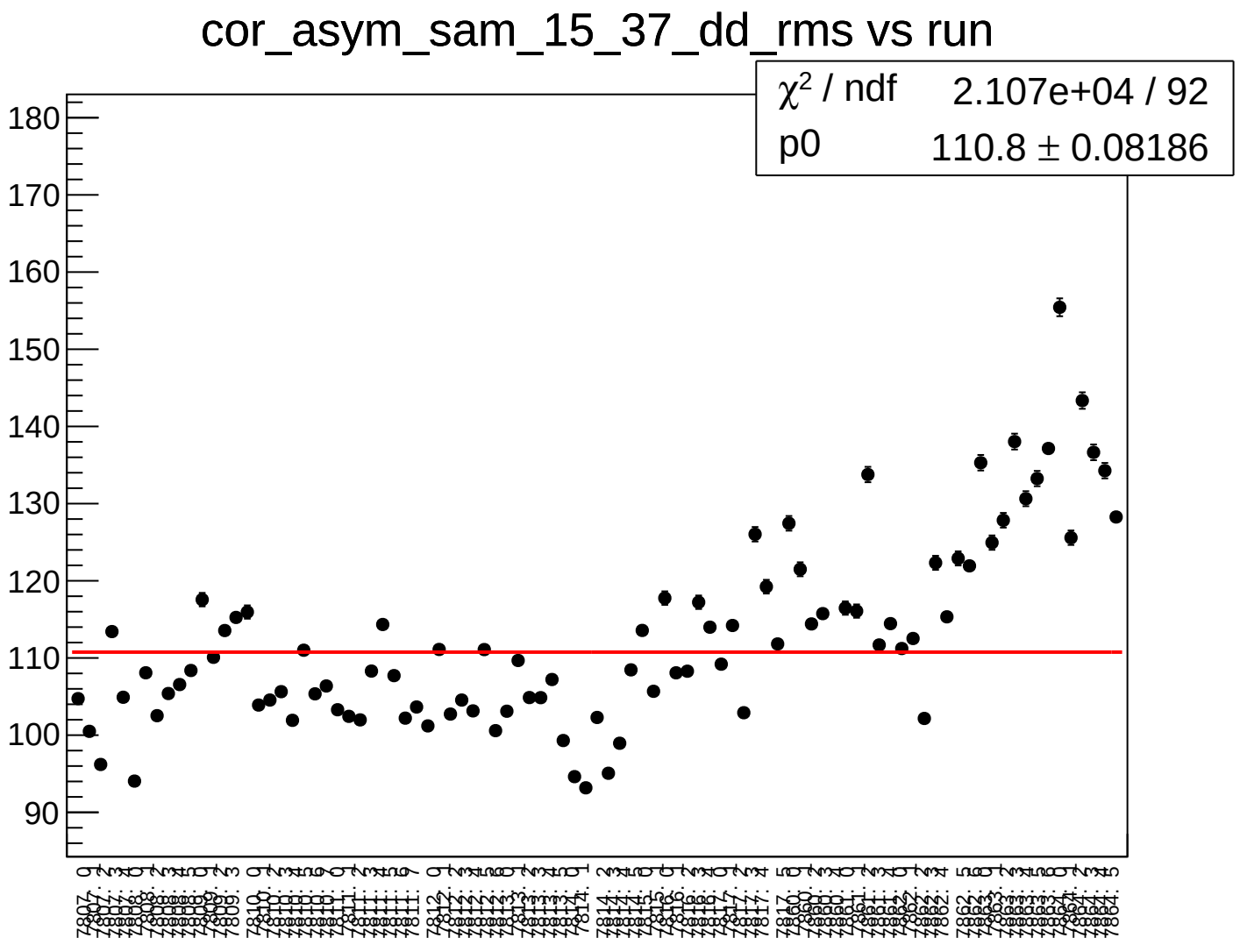

asym_sam_15_37_dd_reg_correction_mean vs run
χ² / ndf 86.13 / 92
p0 277.4 ± 1235
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −13.58
Std Dev 42.62
2
1
0
−1
−2

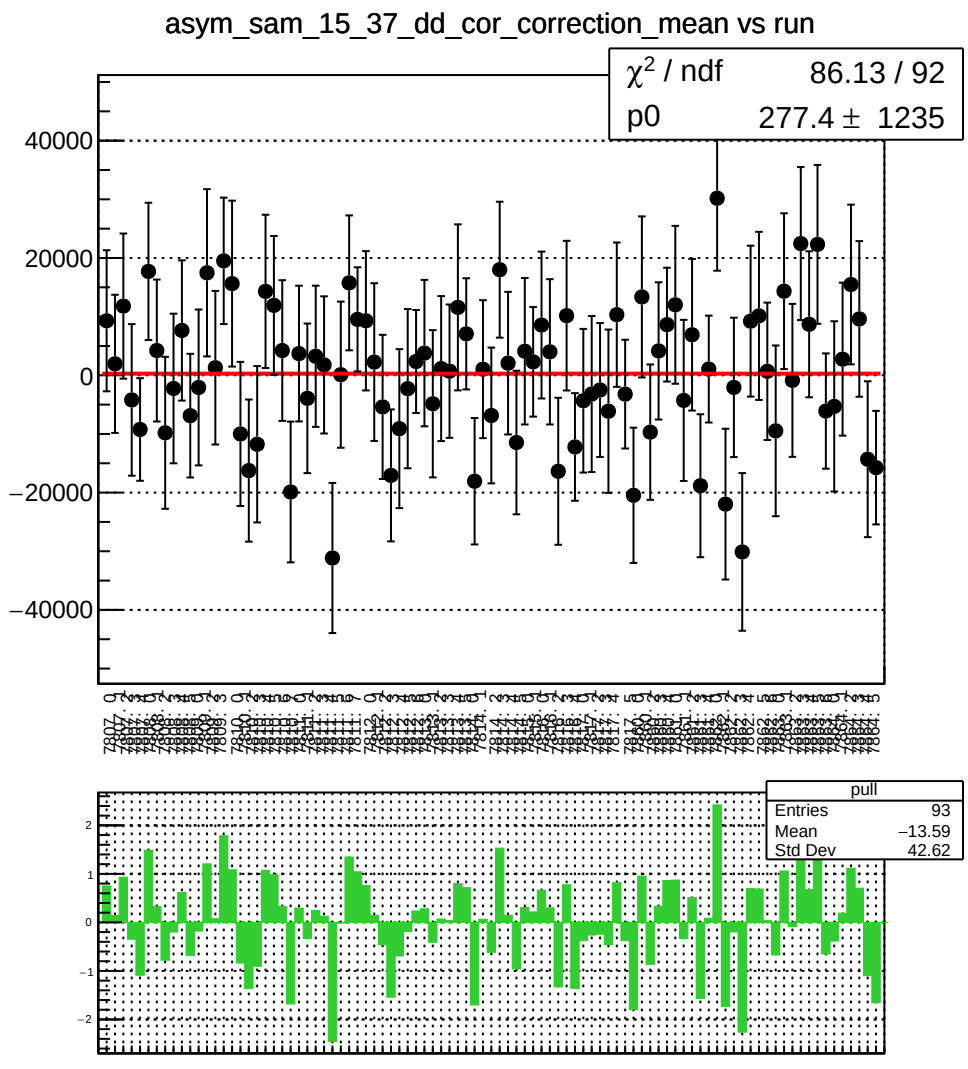

pull1D
Entries 93
Mean 0.01214
Std Dev 0.9623
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

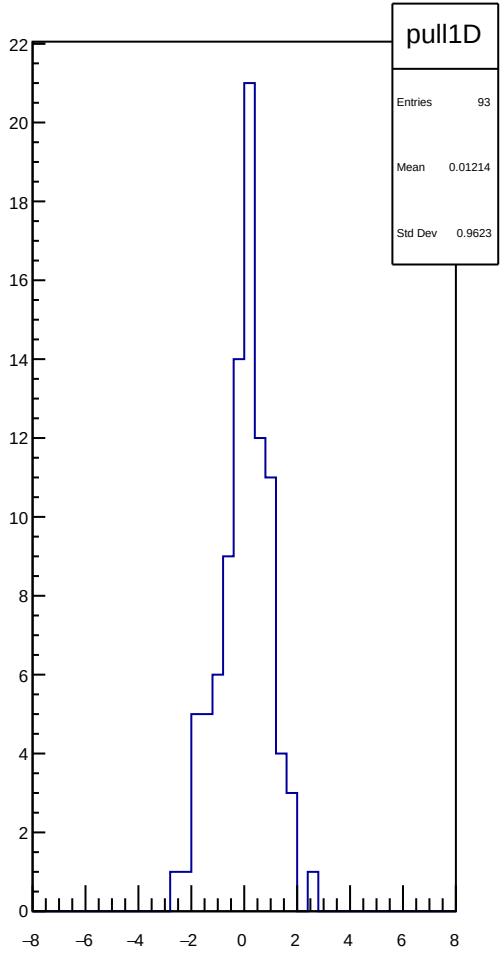

asym_sam_15_37_dd_reg_correction_rms vs run
χ² / ndf 7172 / 92
p0 1186 ± 0.8736
1400
1350
1300
1250
1200
1150
1100
1050
1000

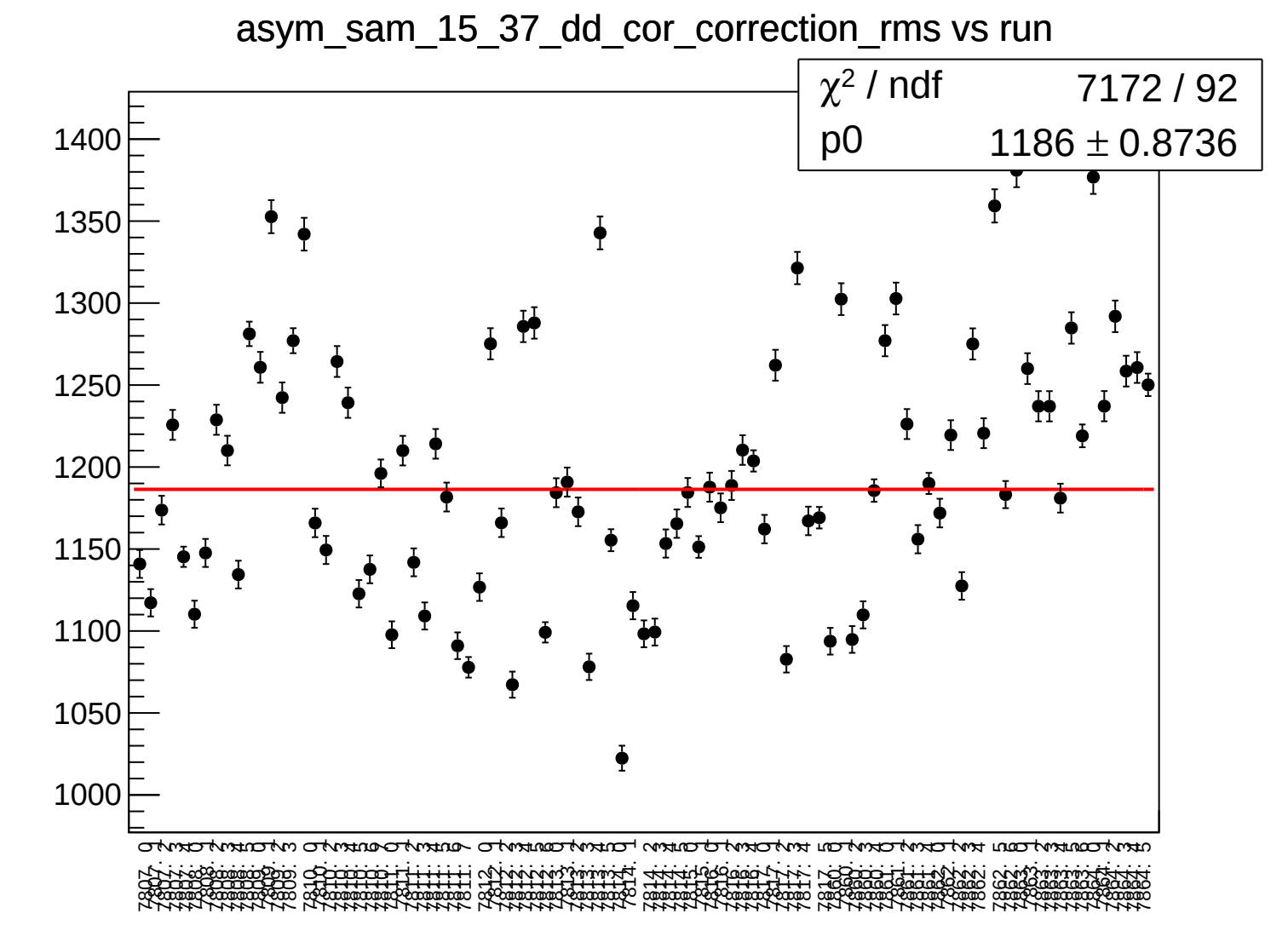

cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 86.73 / 92
p0 −4.415 ± 115.8
4000
2000
0
−2000
−4000
pull
Entries 93
Mean −13.9
Std Dev 0
2
1
0
−1
−2

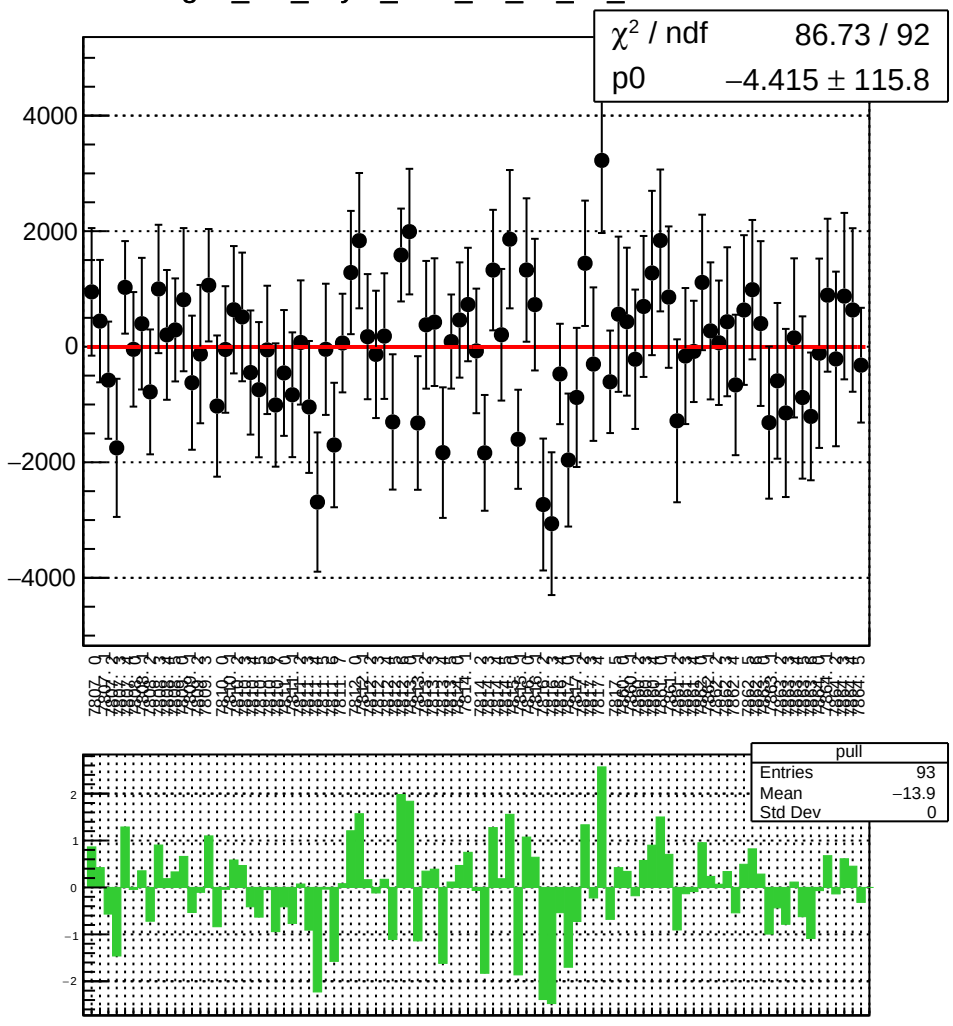

pull1D
Entries 93
Mean −0.005969
Std Dev 0.9657
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

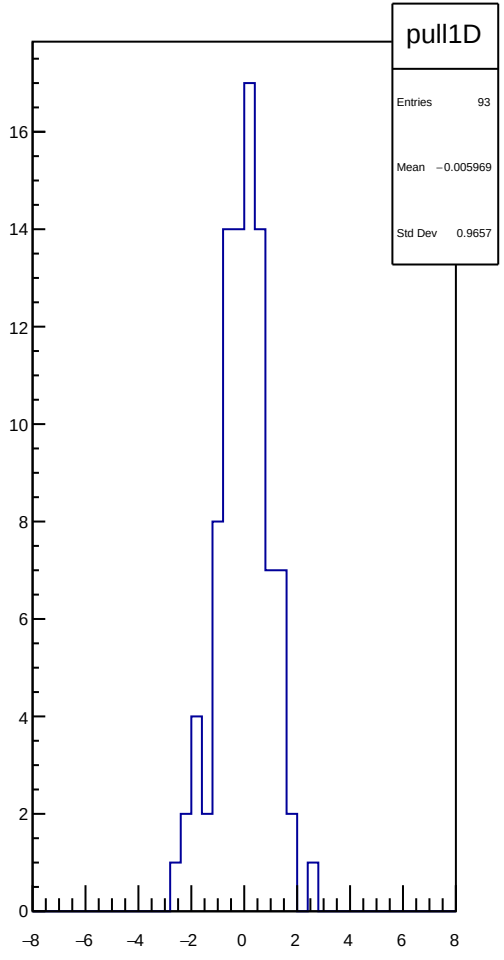

cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 2.107e+04 / 92
p0 110.8 ± 0.08186
180
170
160
150
140
130
120
110
100
90

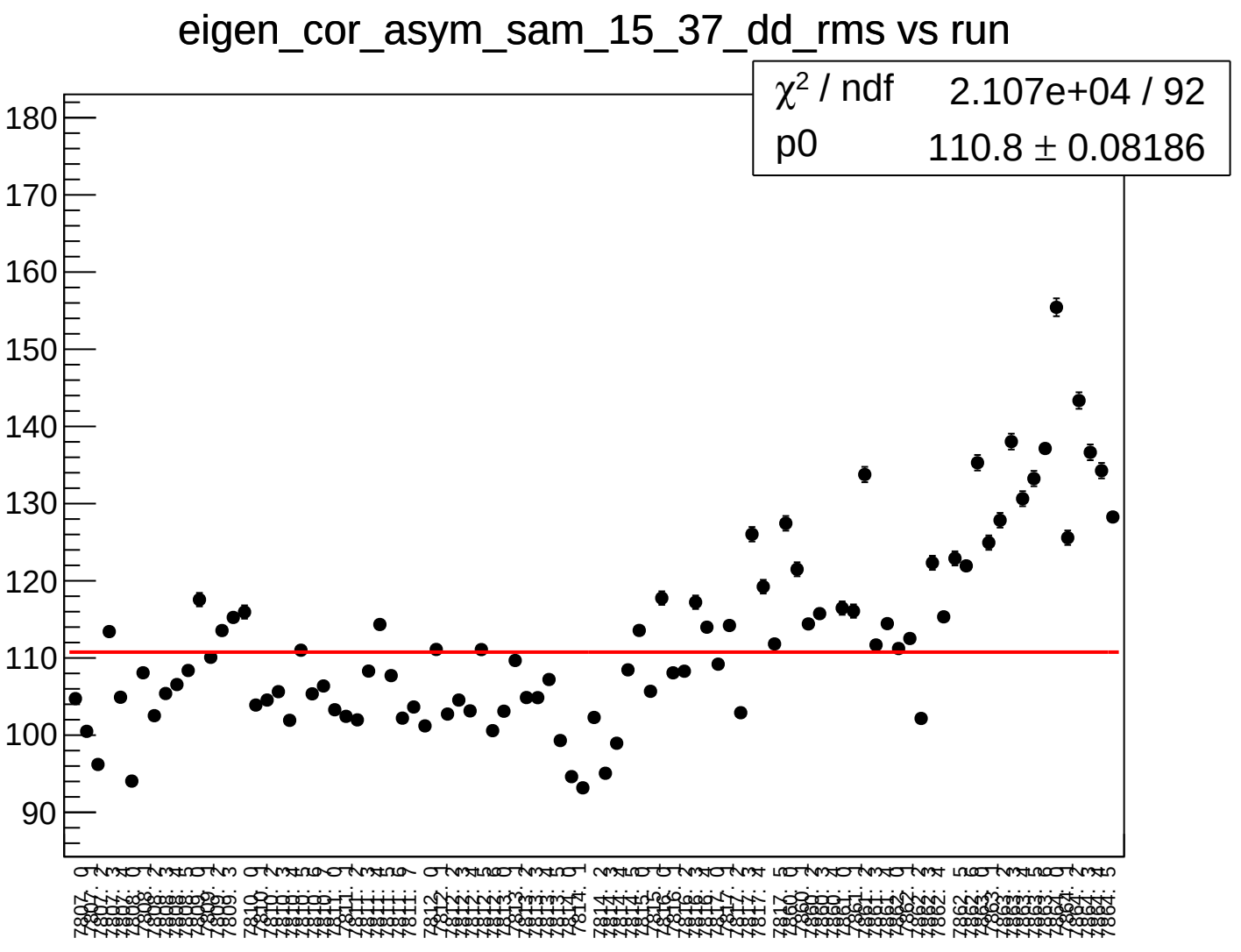

asym_sam_15_37_dd_cor_correction_mean vs run
χ² / ndf 86.13 / 92
p0 277.4 ± 1235
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −13.59
Std Dev 42.62
2
1
0
−1
−2

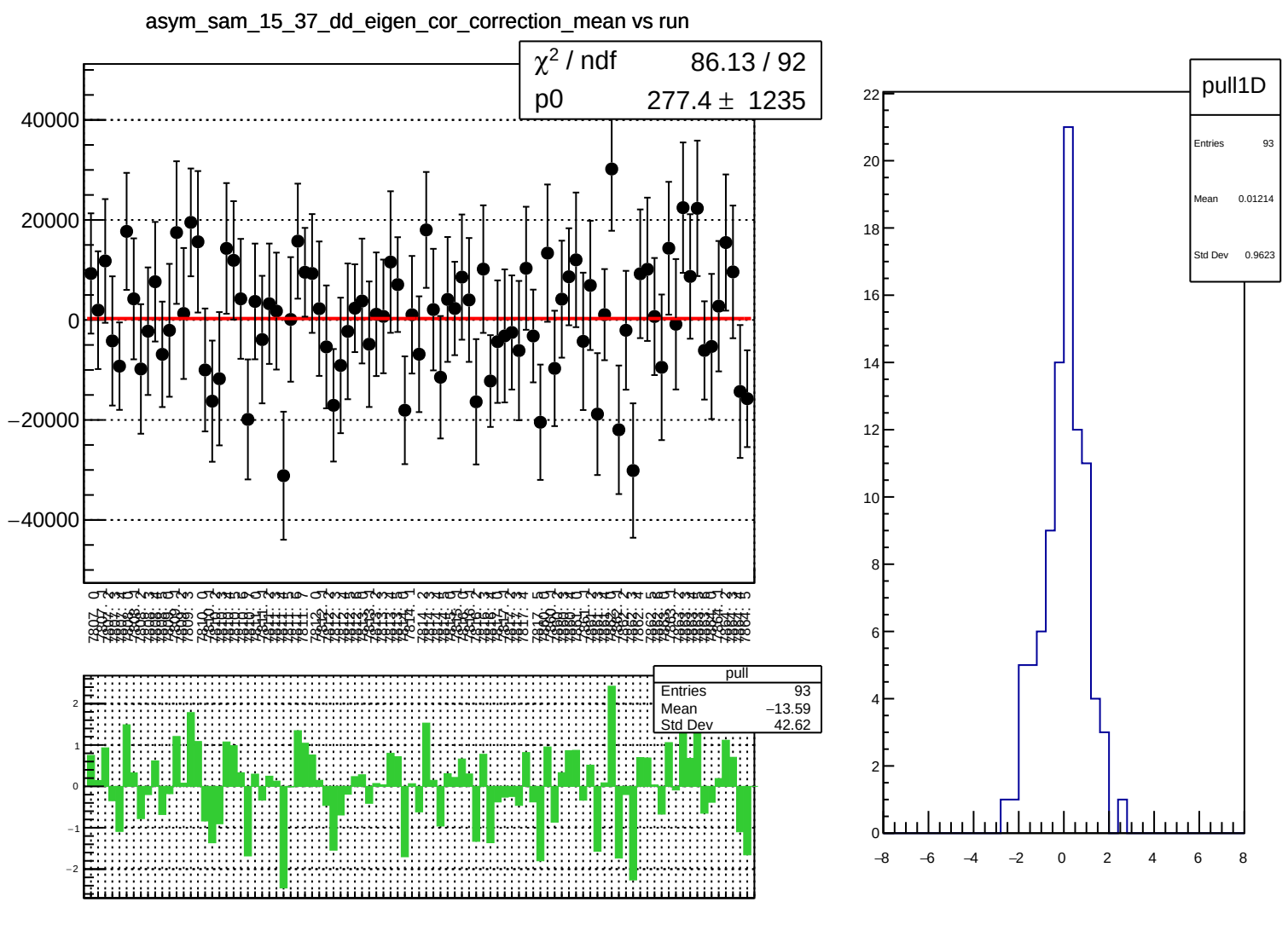

pull1D
Entries 93
Mean 0.01214
Std Dev 0.9623
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

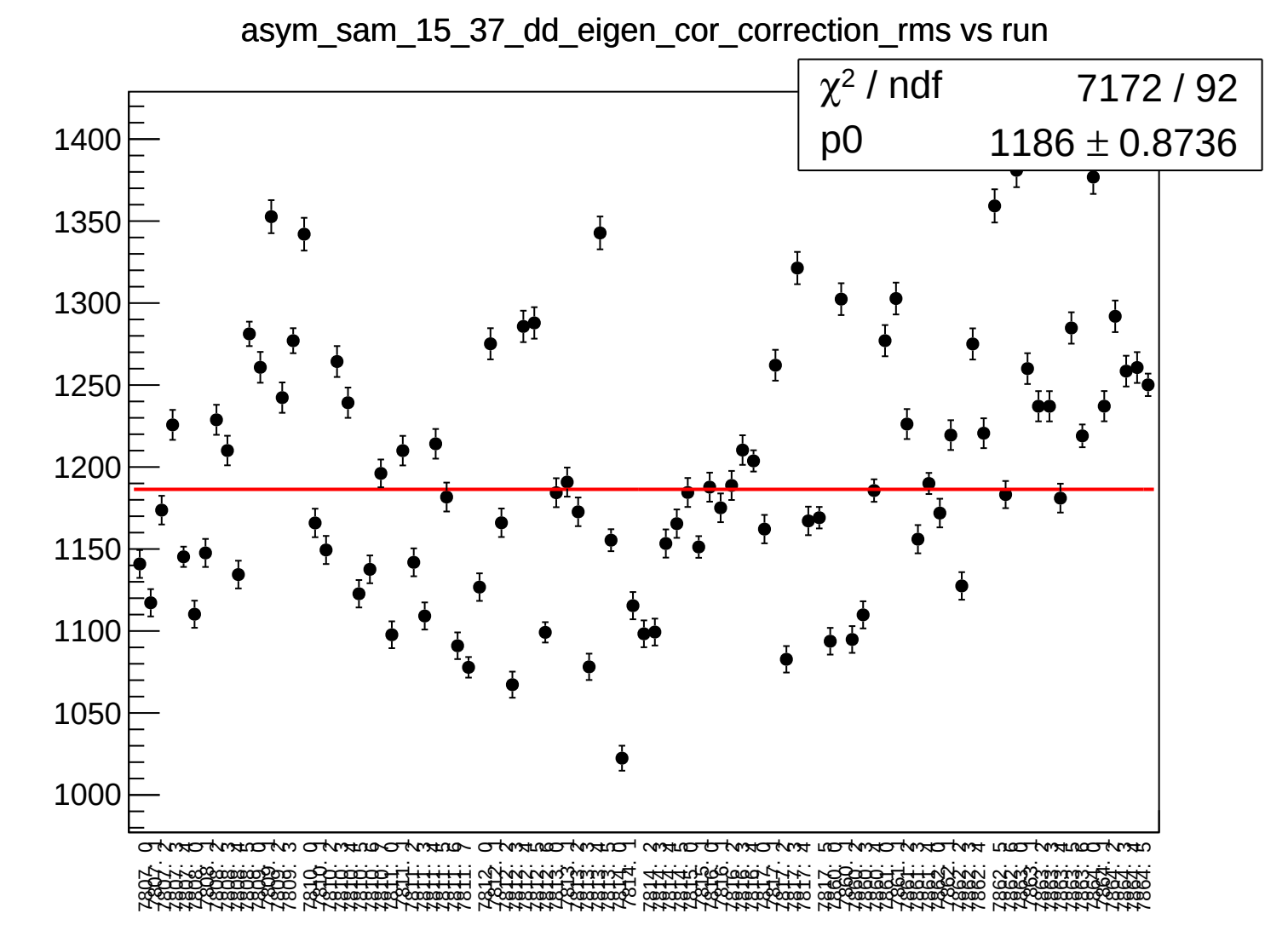

asym_sam_15_37_dd_cor_correction_rms vs run
χ² / ndf 7172 / 92
p0 1186 ± 0.8736
1400
1350
1300
1250
1200
1150
1100
1050
1000

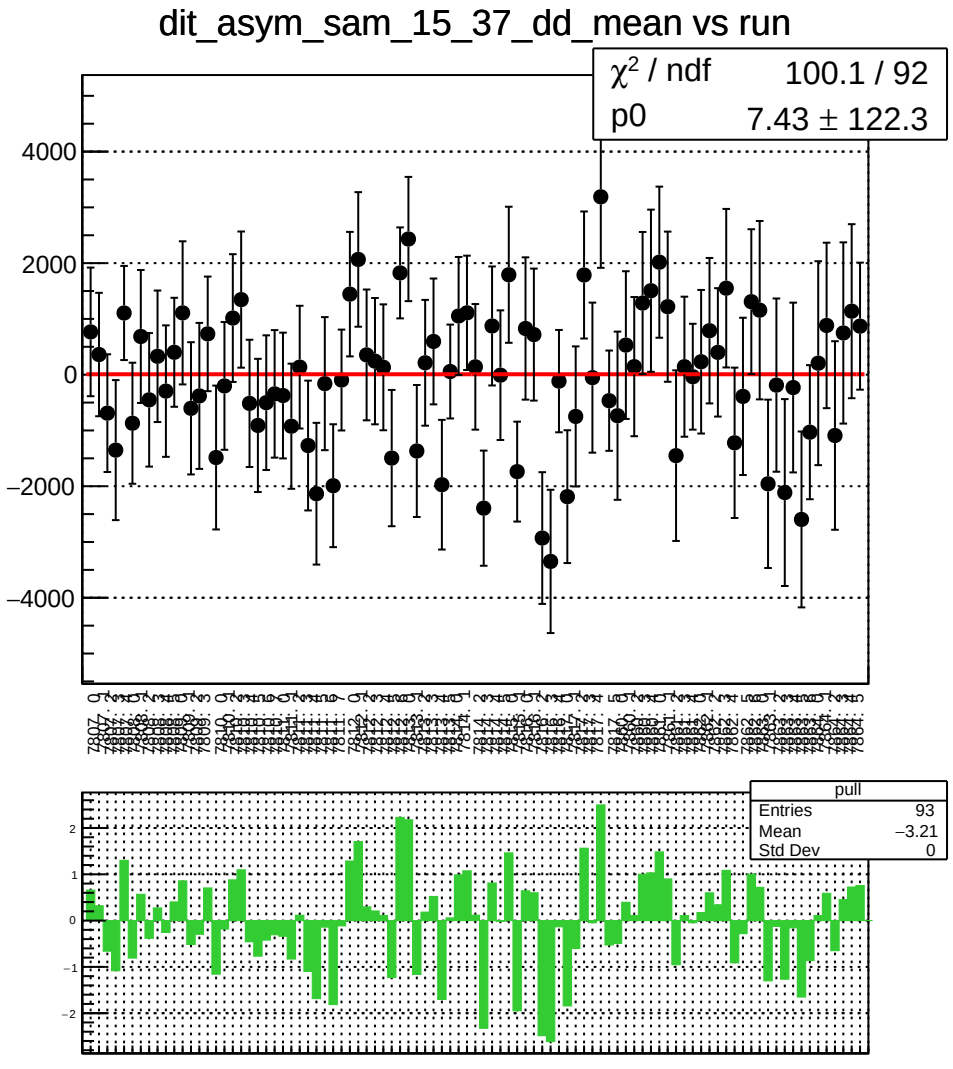

eigen_cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 86.73 / 92
p0 −4.415 ± 115.8
4000
2000
0
−2000
−4000
pull
Entries 93
Mean −13.9
Std Dev 0
2
1
0
−1
−2

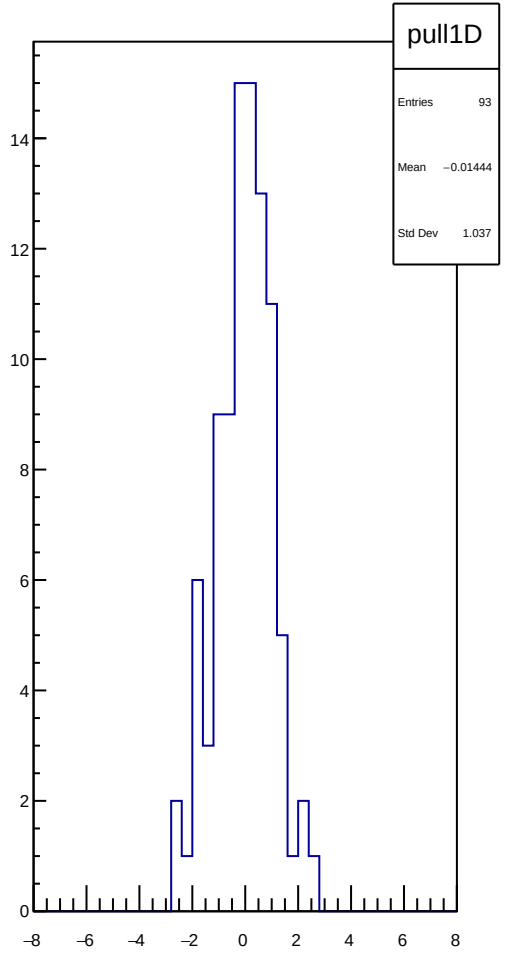

pull1D
Entries 93
Mean −0.005969
Std Dev 0.9657
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

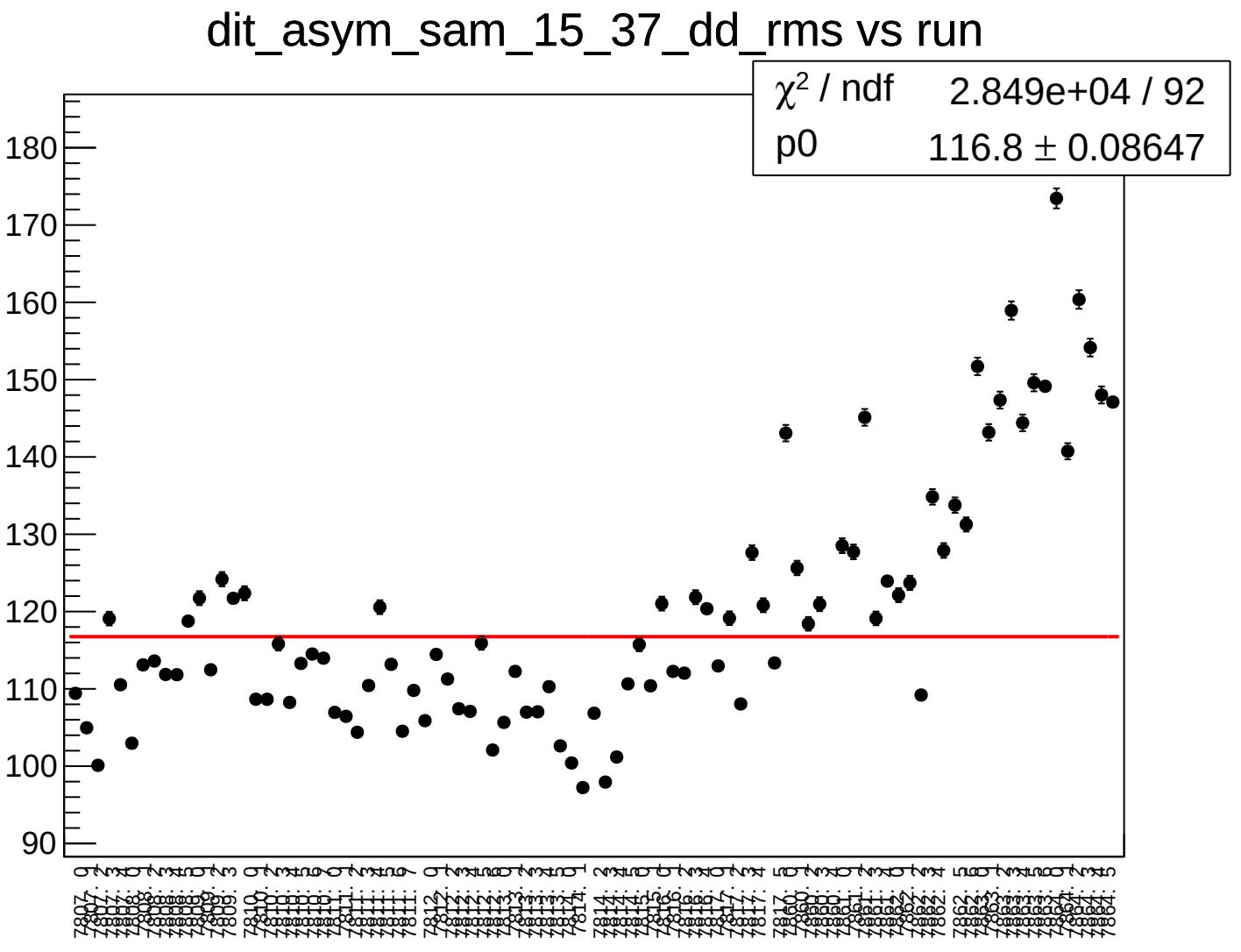

eigen_cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 2.107e+04 / 92
p0 110.8 ± 0.08186
180
170
160
150
140
130
120
110
100
90

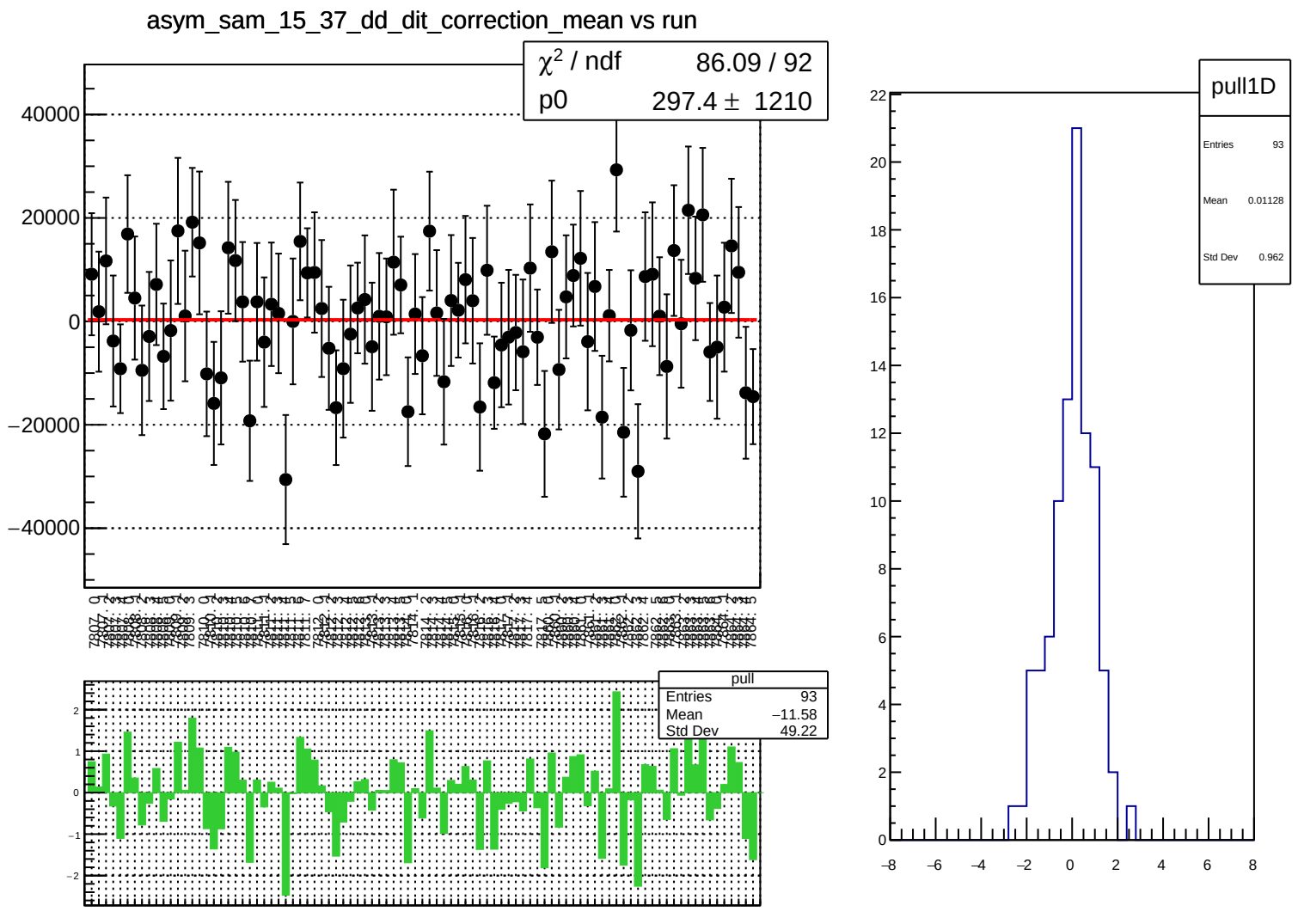

asym_sam_15_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 86.13 / 92
p0 277.4 ± 1235
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −13.59
Std Dev 42.62
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.01214
Std Dev 0.9623
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

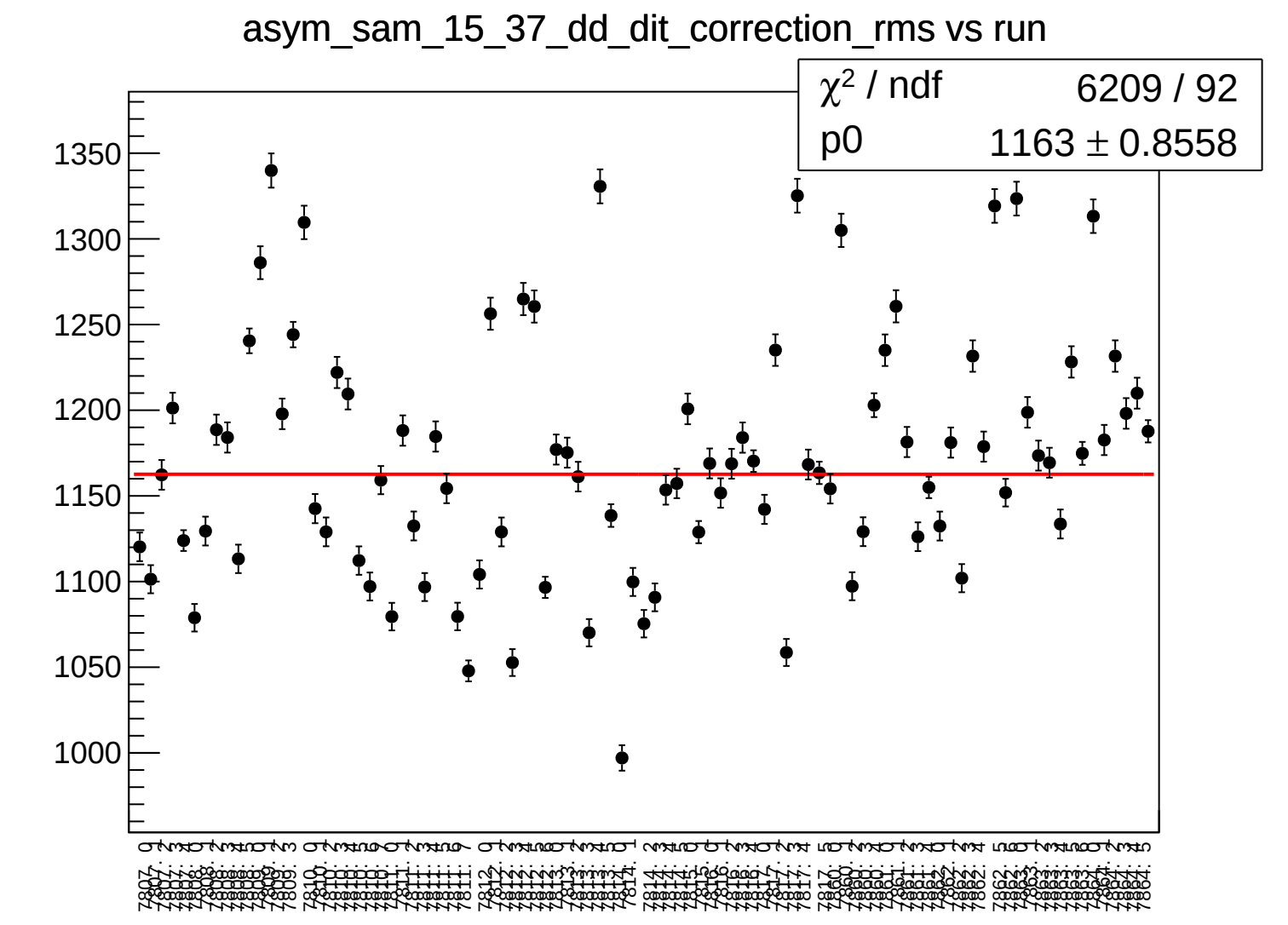

asym_sam_15_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 7172 / 92
p0 1186 ± 0.8736
1400
1350
1300
1250
1200
1150
1100
1050
1000

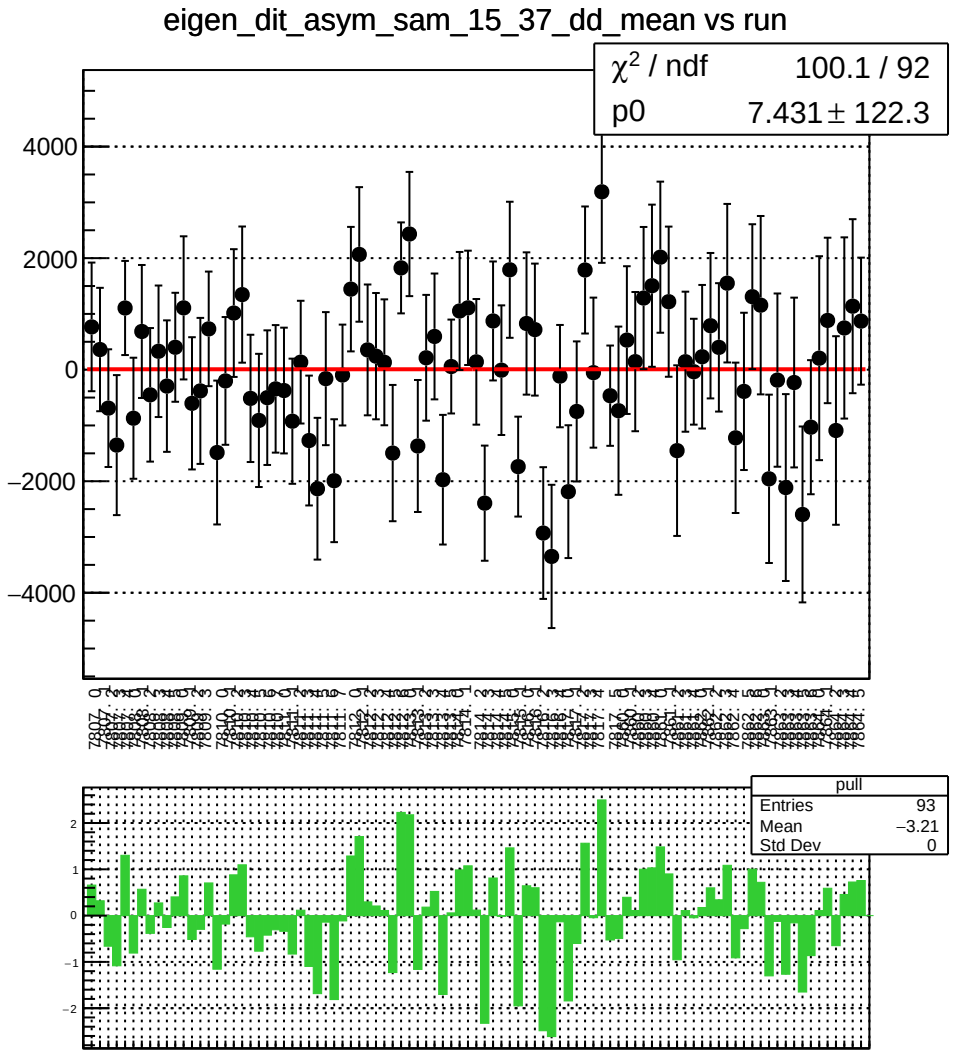

dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 100.1 / 92
p0 7.43 ± 122.3
4000
2000
0
−2000
−4000
pull
Entries 93
Mean −3.21
Std Dev 0
2
1
0
−1
−2

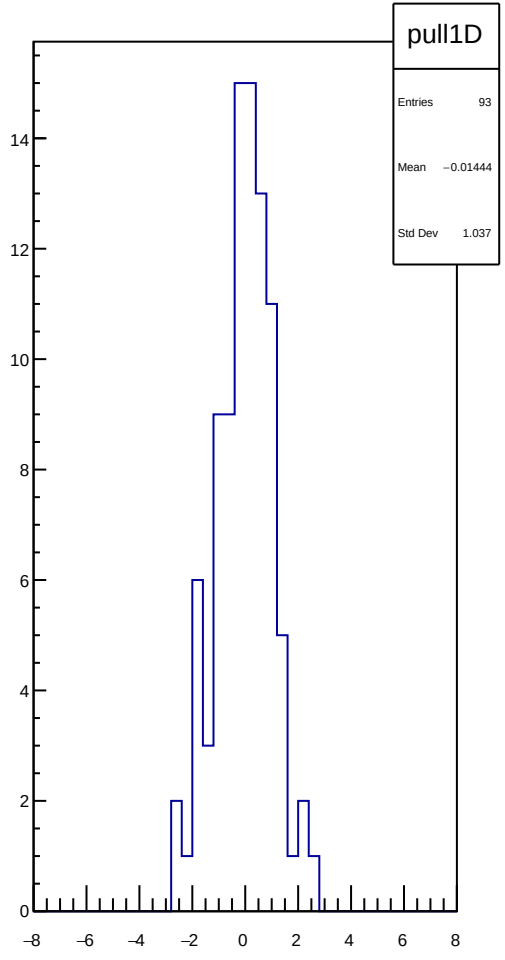

pull1D
Entries 93
Mean −0.01444
Std Dev 1.037
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

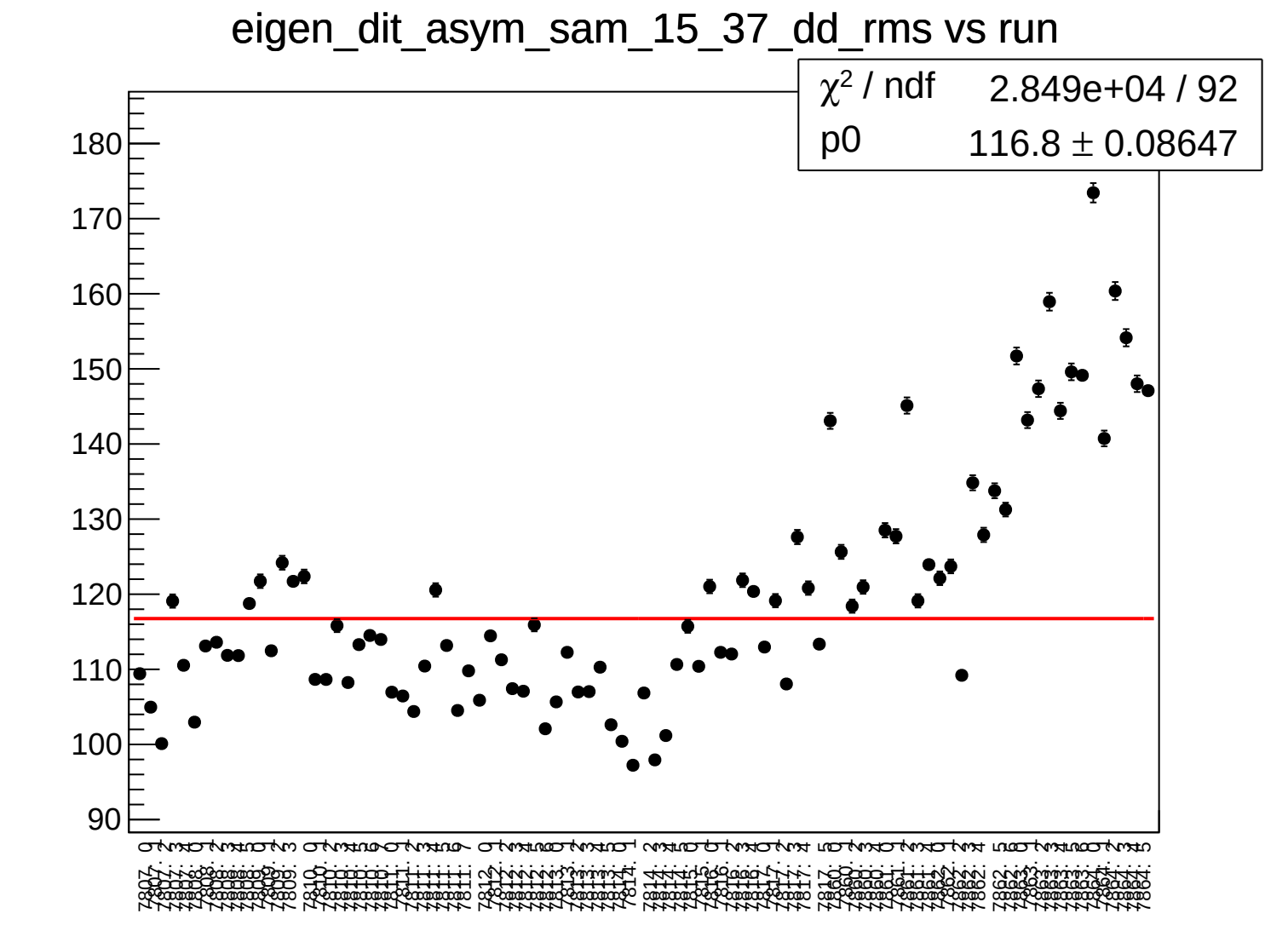

dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 2.849e+04 / 92
p0 116.8 ± 0.08647
180
170
160
150
140
130
120
110
100
90

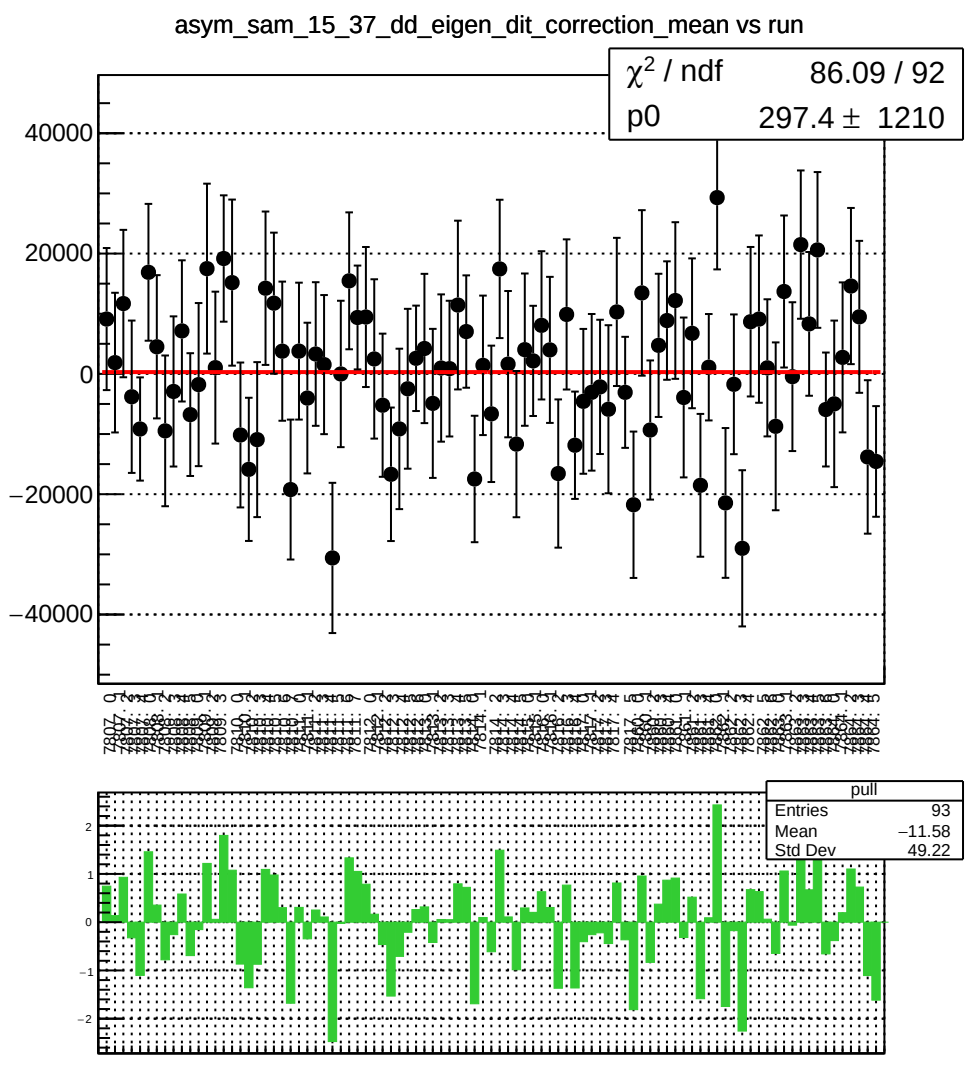

asym_sam_15_37_dd_dit_correction_mean vs run
χ² / ndf 86.09 / 92
p0 297.4 ± 1210
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −11.58
Std Dev 49.22
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.01128
Std Dev 0.962
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

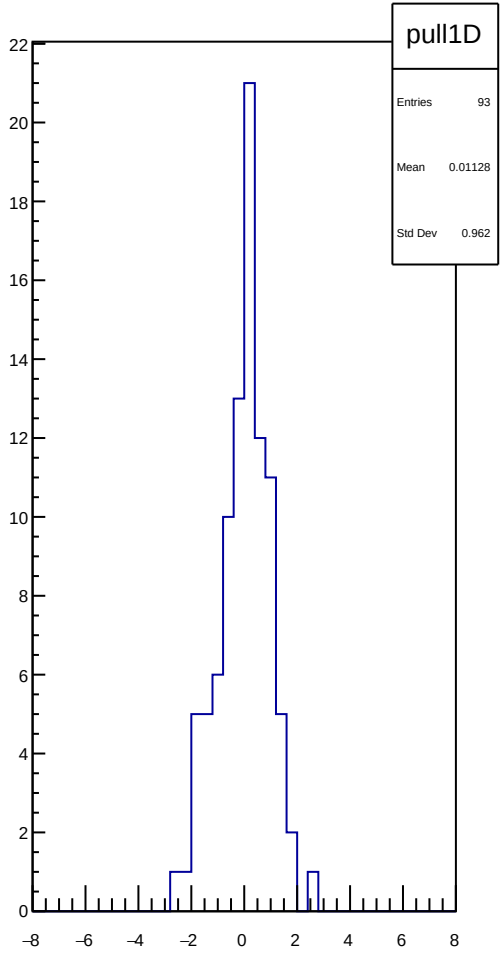

asym_sam_15_37_dd_dit_correction_rms vs run
χ² / ndf 6209 / 92
p0 1163 ± 0.8558
1350
1300
1250
1200
1150
1100
1050
1000

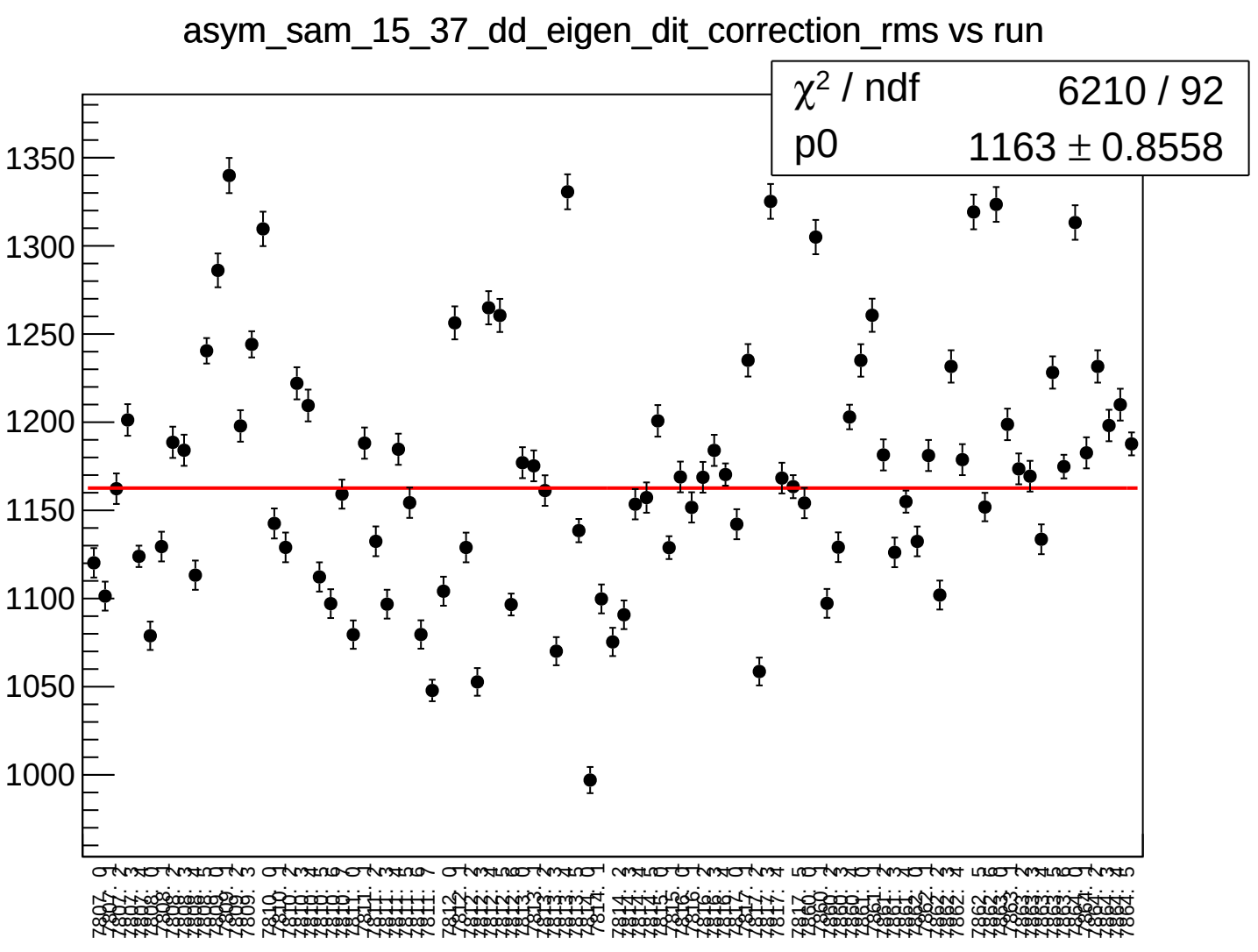

eigen_dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 100.1 / 92
p0 7.431 ± 122.3
4000
2000
0
−2000
−4000
pull
Entries 93
Mean −3.21
Std Dev 0
2
1
0
−1
−2

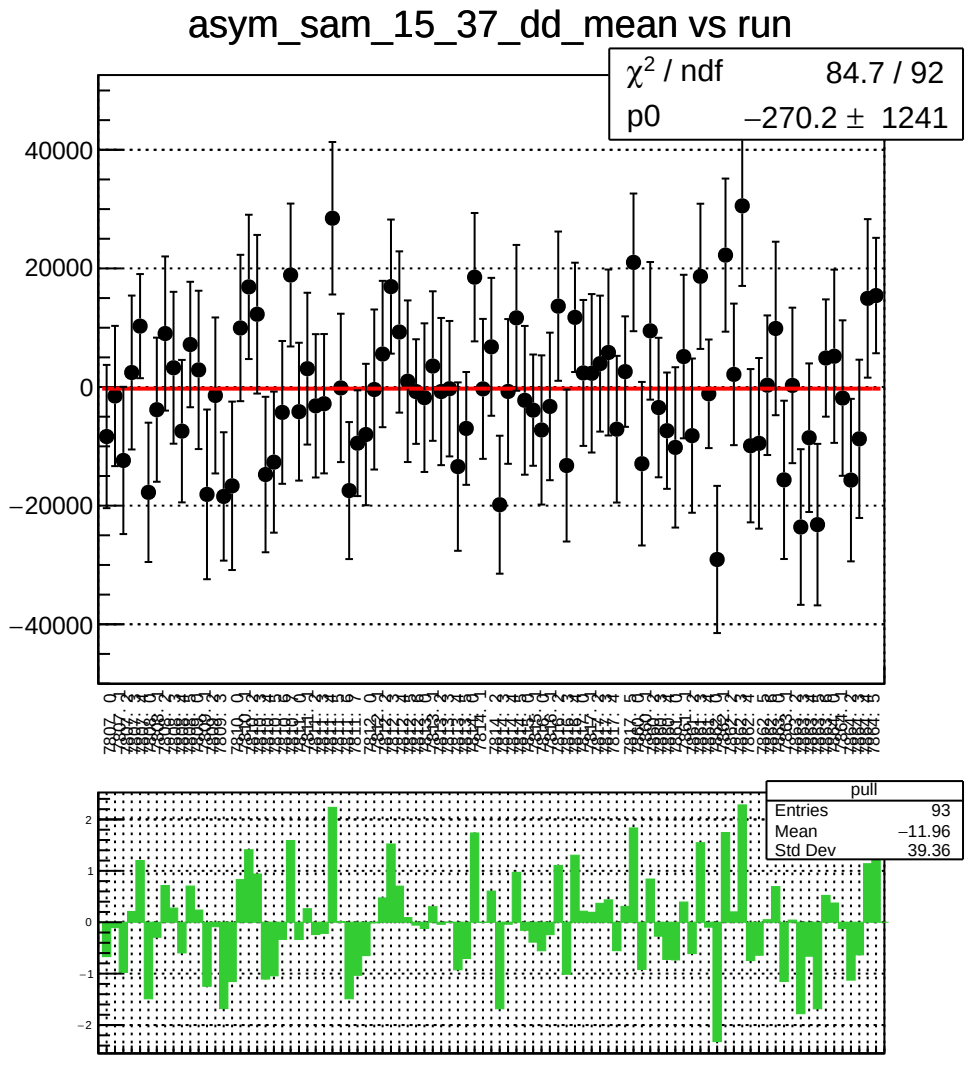

pull1D
Entries 93
Mean −0.01444
Std Dev 1.037
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

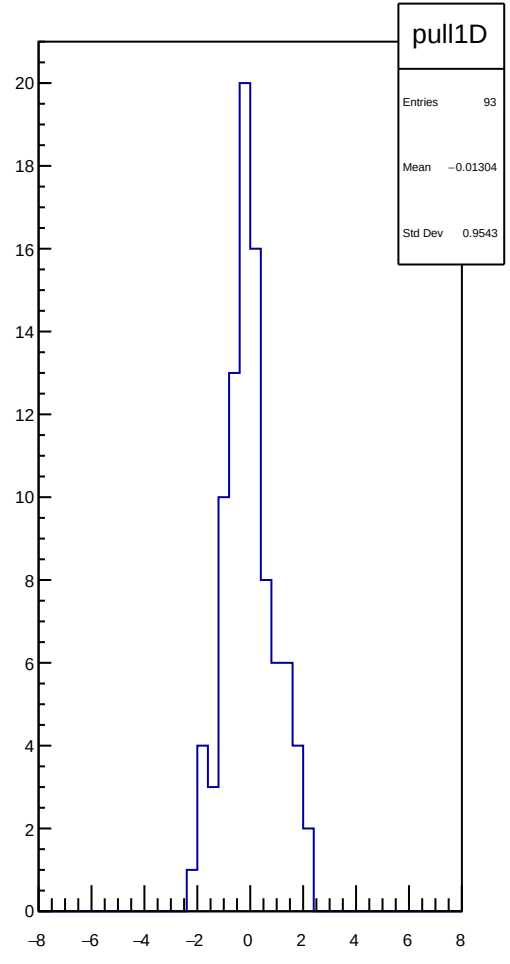

eigen_dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 2.849e+04 / 92
p0 116.8 ± 0.08647
180
170
160
150
140
130
120
110
100
90

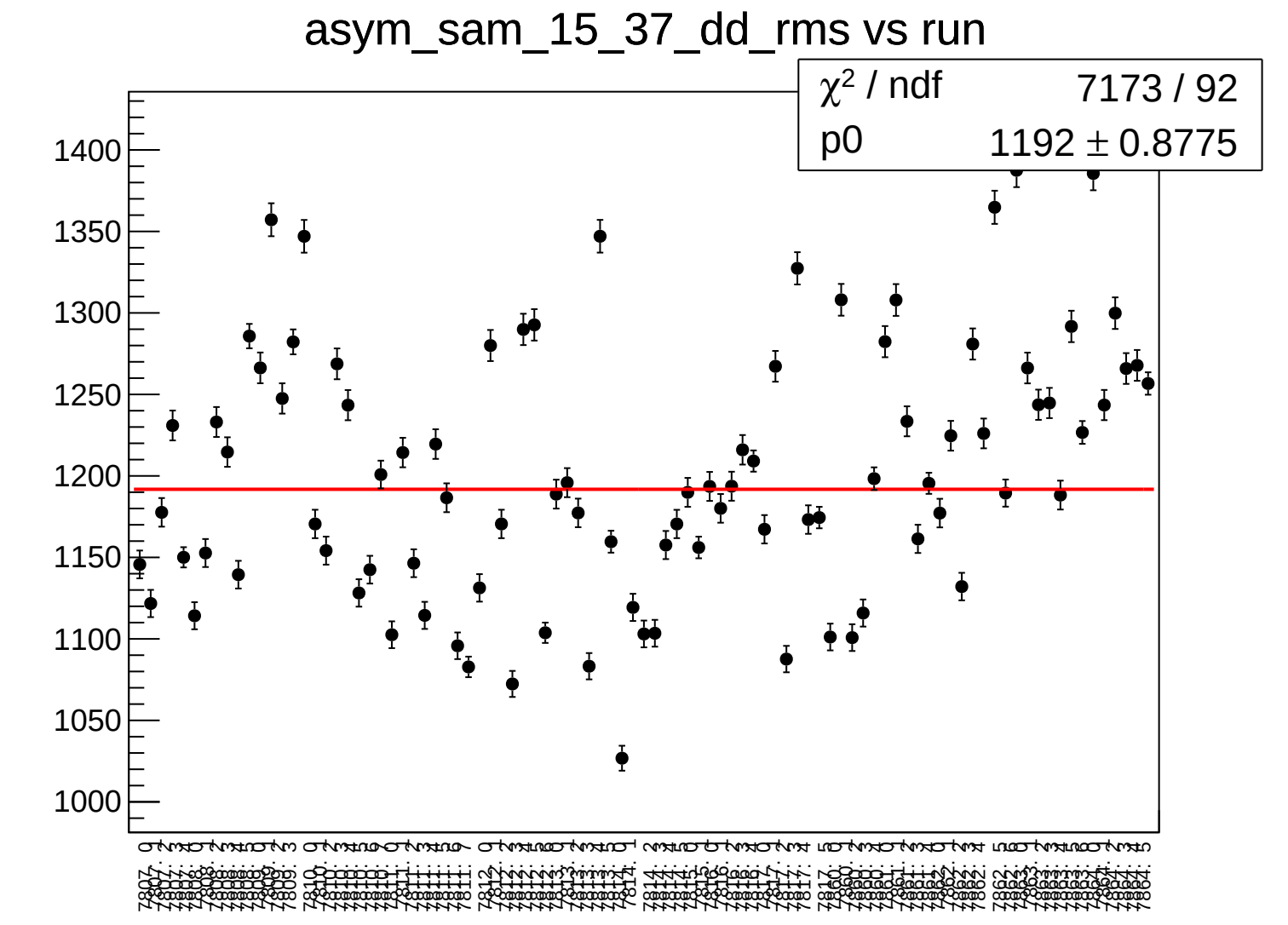

asym_sam_15_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 86.09 / 92
p0 297.4 ± 1210
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −11.58
Std Dev 49.22
2
1
0
−1
−2

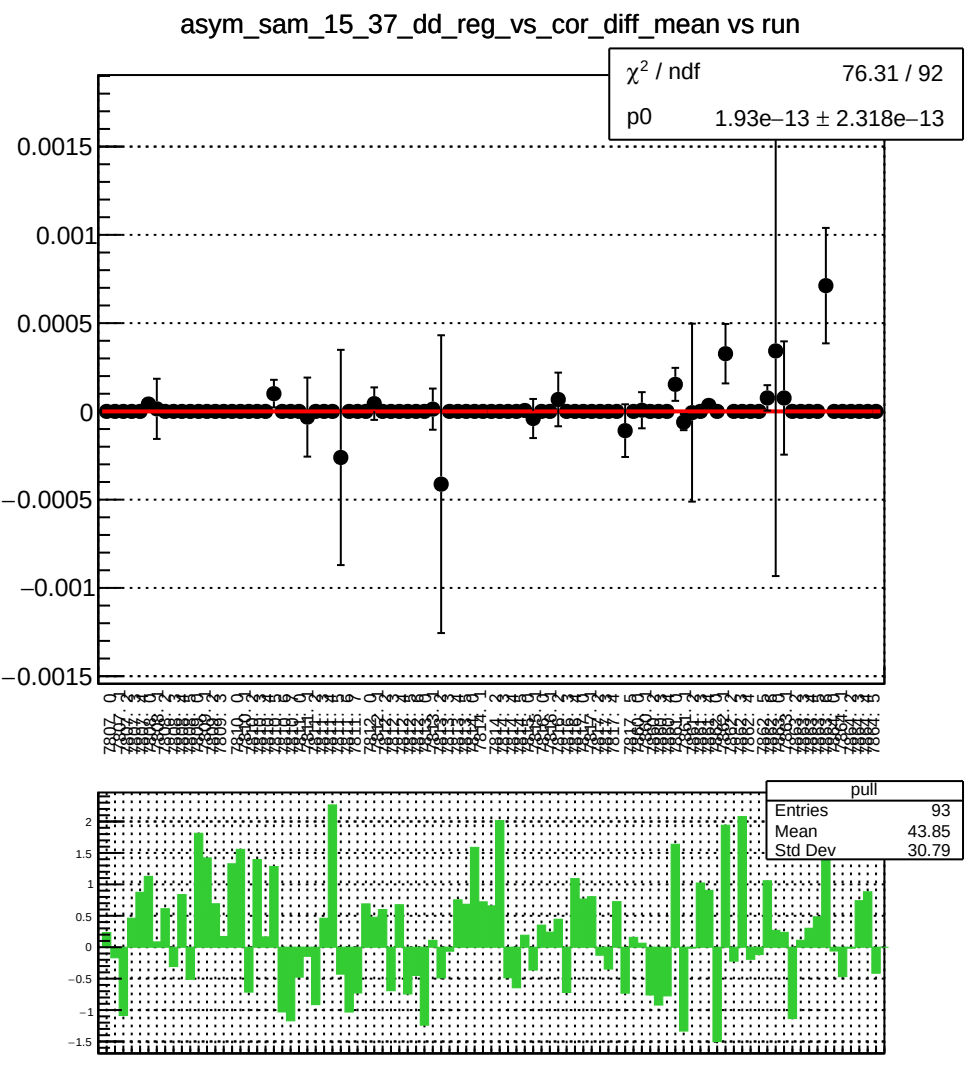

pull1D
Entries 93
Mean 0.01128
Std Dev 0.962
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

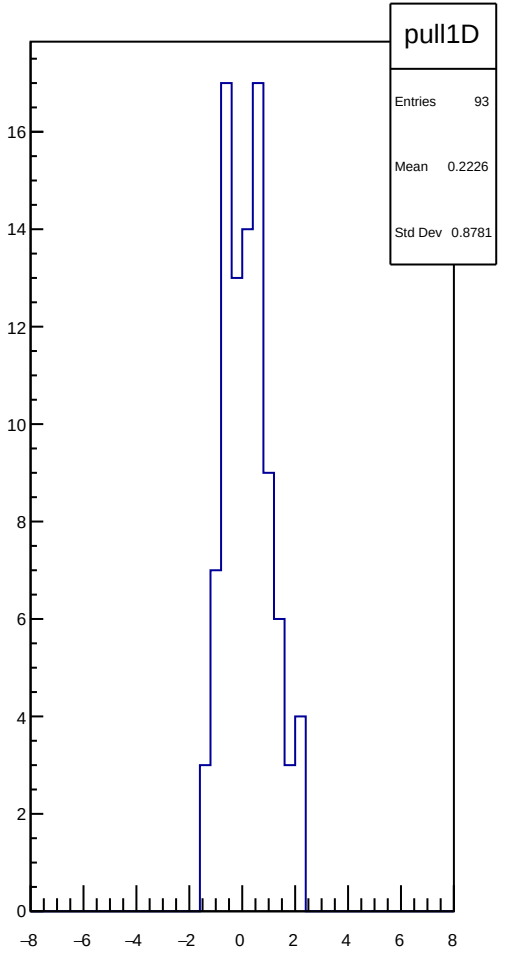

asym_sam_15_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 6210 / 92
p0 1163 ± 0.8558
1350
1300
1250
1200
1150
1100
1050
1000

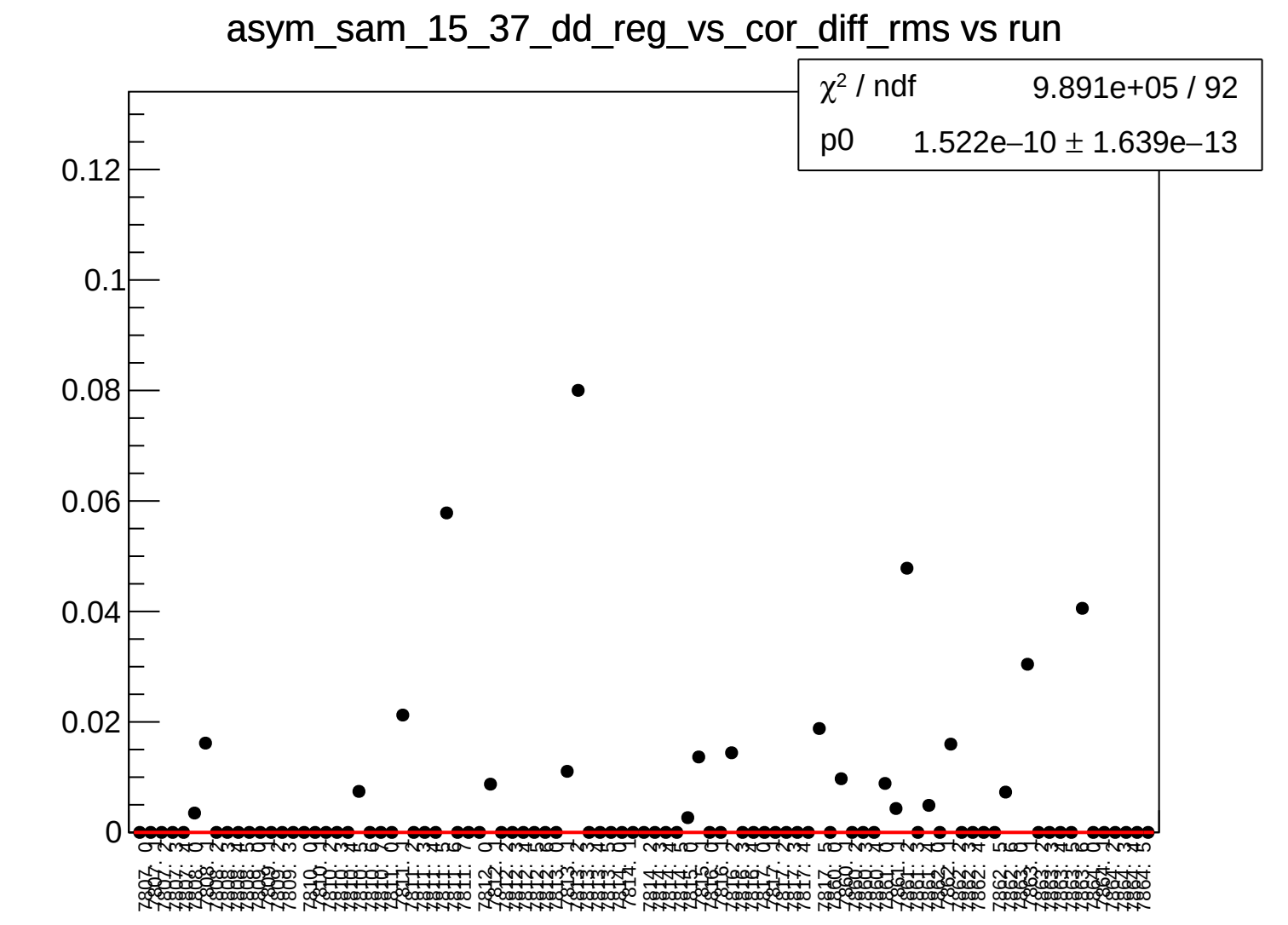

asym_sam_15_37_dd_mean vs run
χ² / ndf 84.7 / 92
p0 −270.2 ± 1241
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −11.96
Std Dev 39.36
2
1
0
−1
−2

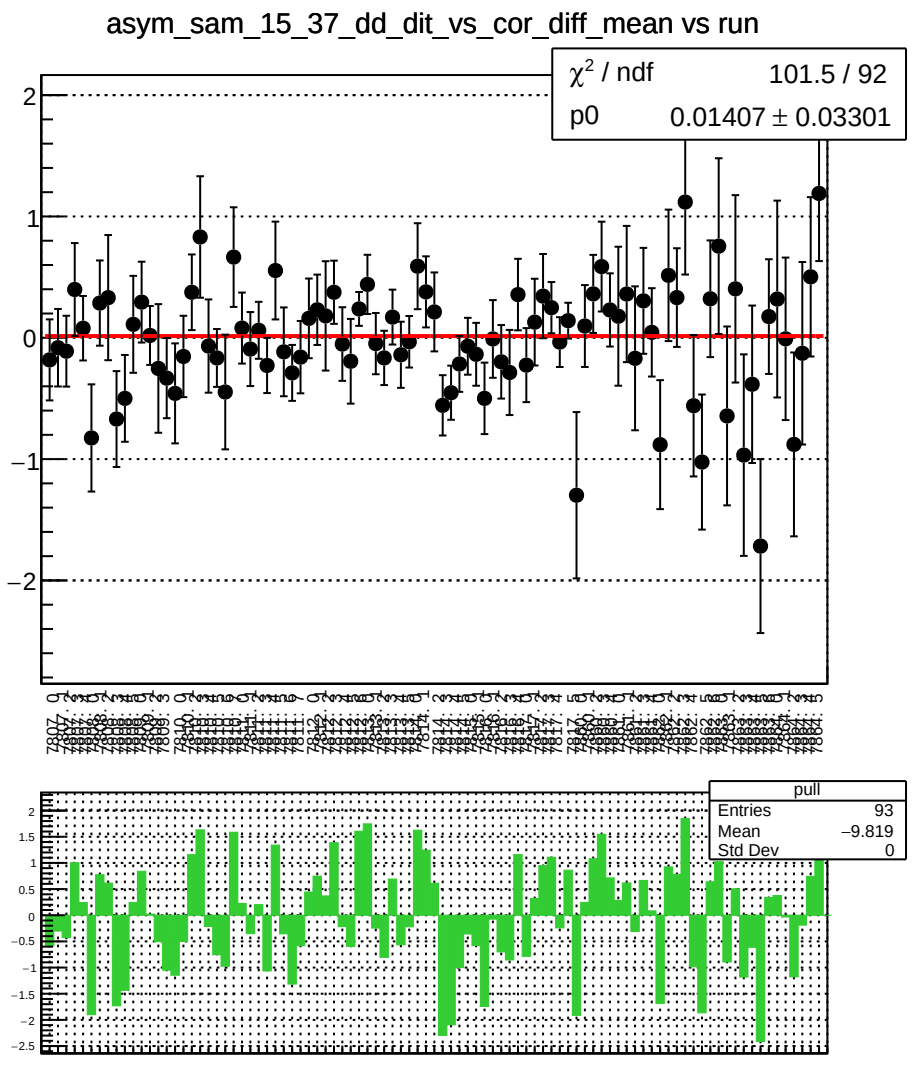

pull1D
Entries 93
Mean −0.01304
Std Dev 0.9543
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

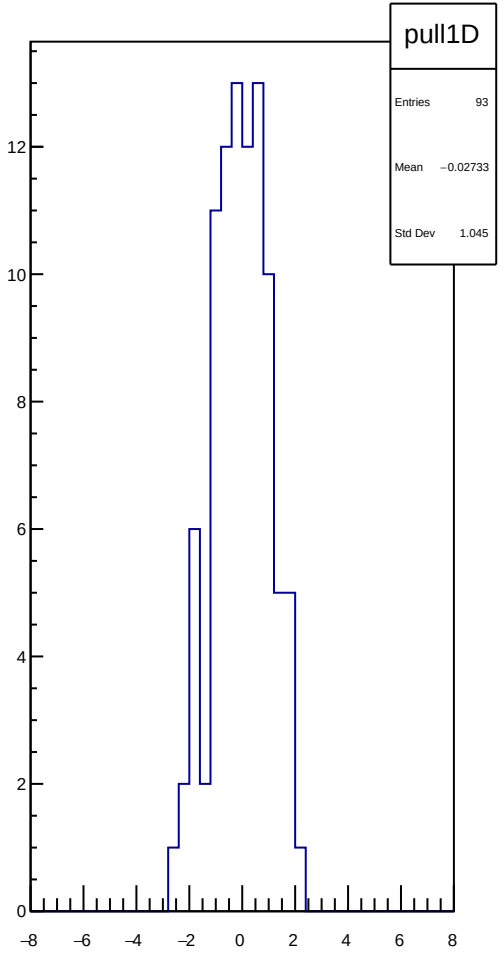

asym_sam_15_37_dd_rms vs run
χ² / ndf 7173 / 92
p0 1192 ± 0.8775
1400
1350
1300
1250
1200
1150
1100
1050
1000

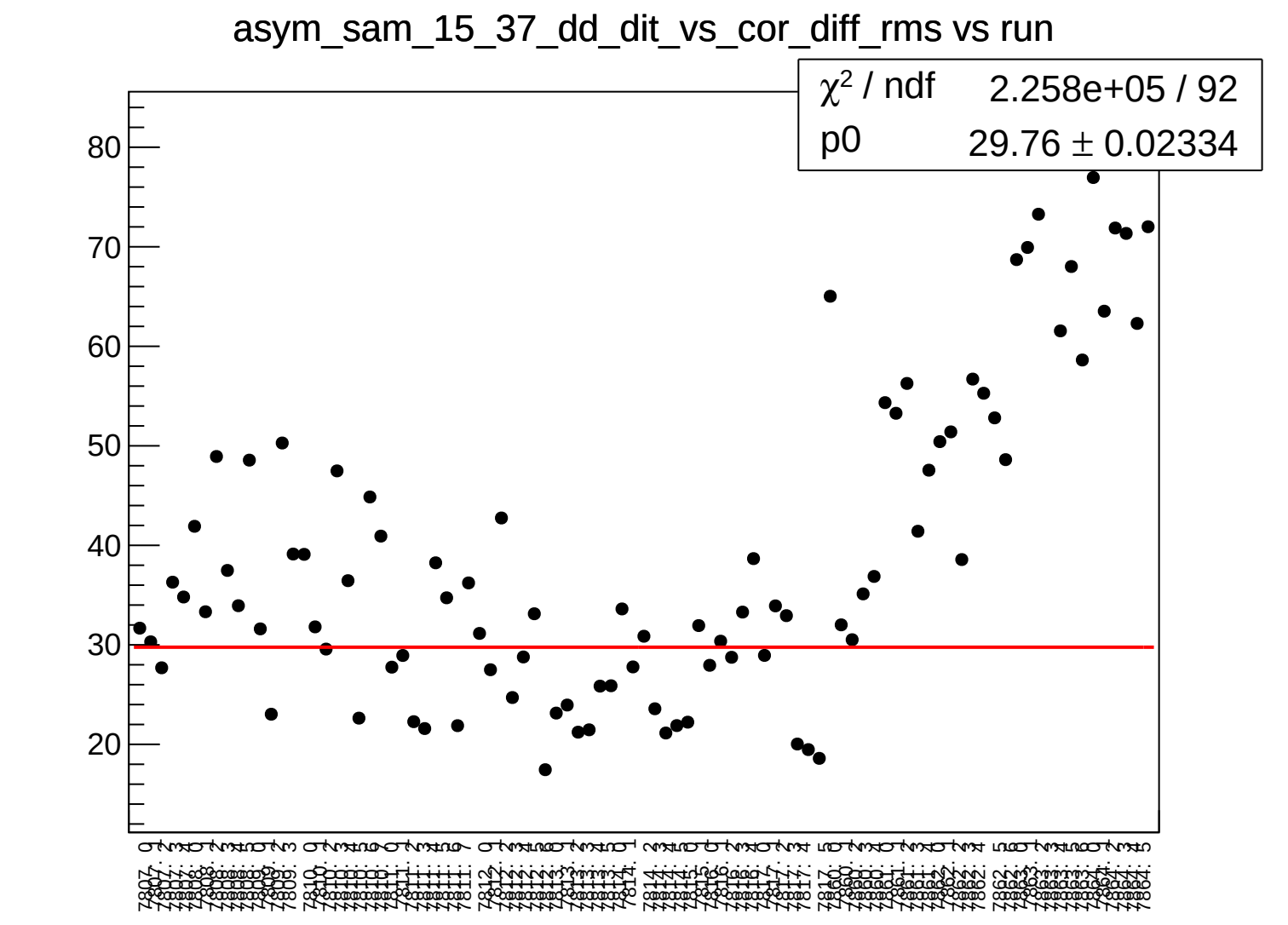

asym_sam_15_37_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 76.31 / 92
p0 1.93e−13 ± 2.318e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 93
Mean 43.85
Std Dev 30.79
2
1.5
1
0.5
0
−0.5
−1
−1.5

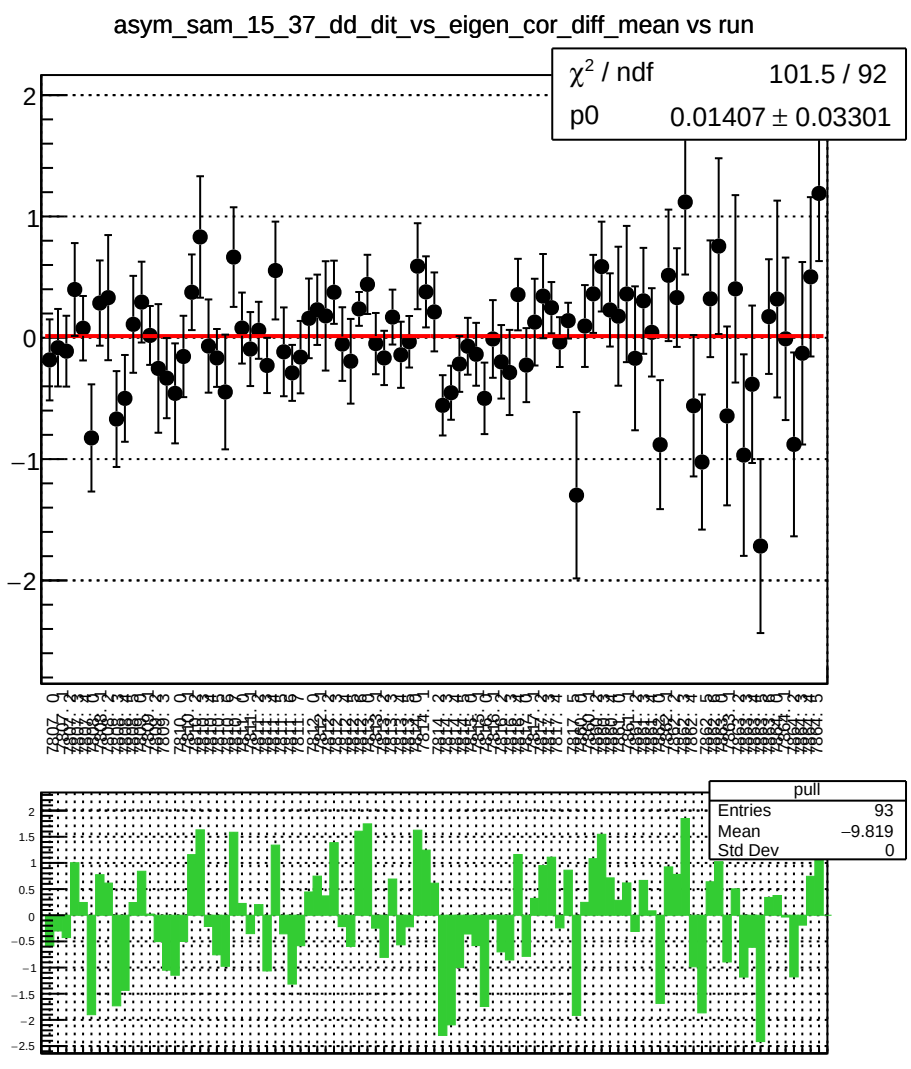

pull1D
Entries 93
Mean 0.2226
Std Dev 0.8781
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

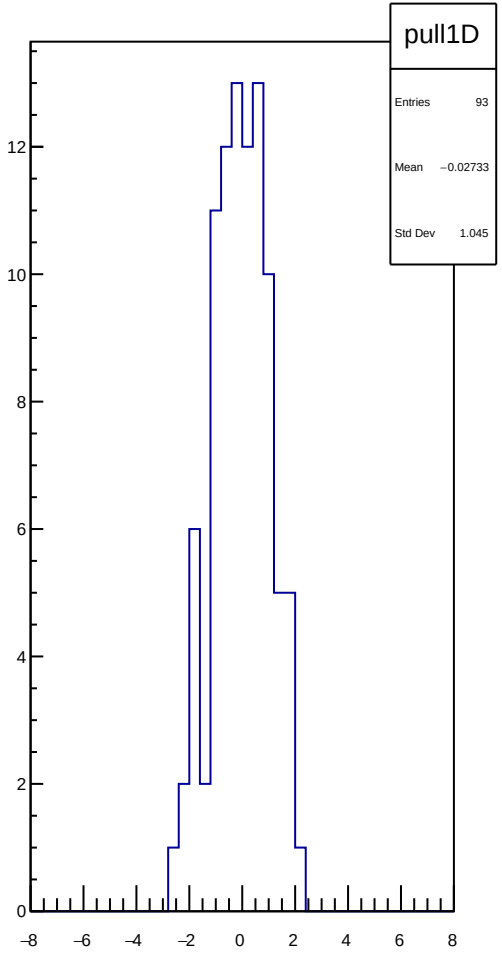

asym_sam_15_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.891e+05 / 92
p0 1.522e−10 ± 1.639e−13
0.12
0.1
0.08
0.06
0.04
0.02
0

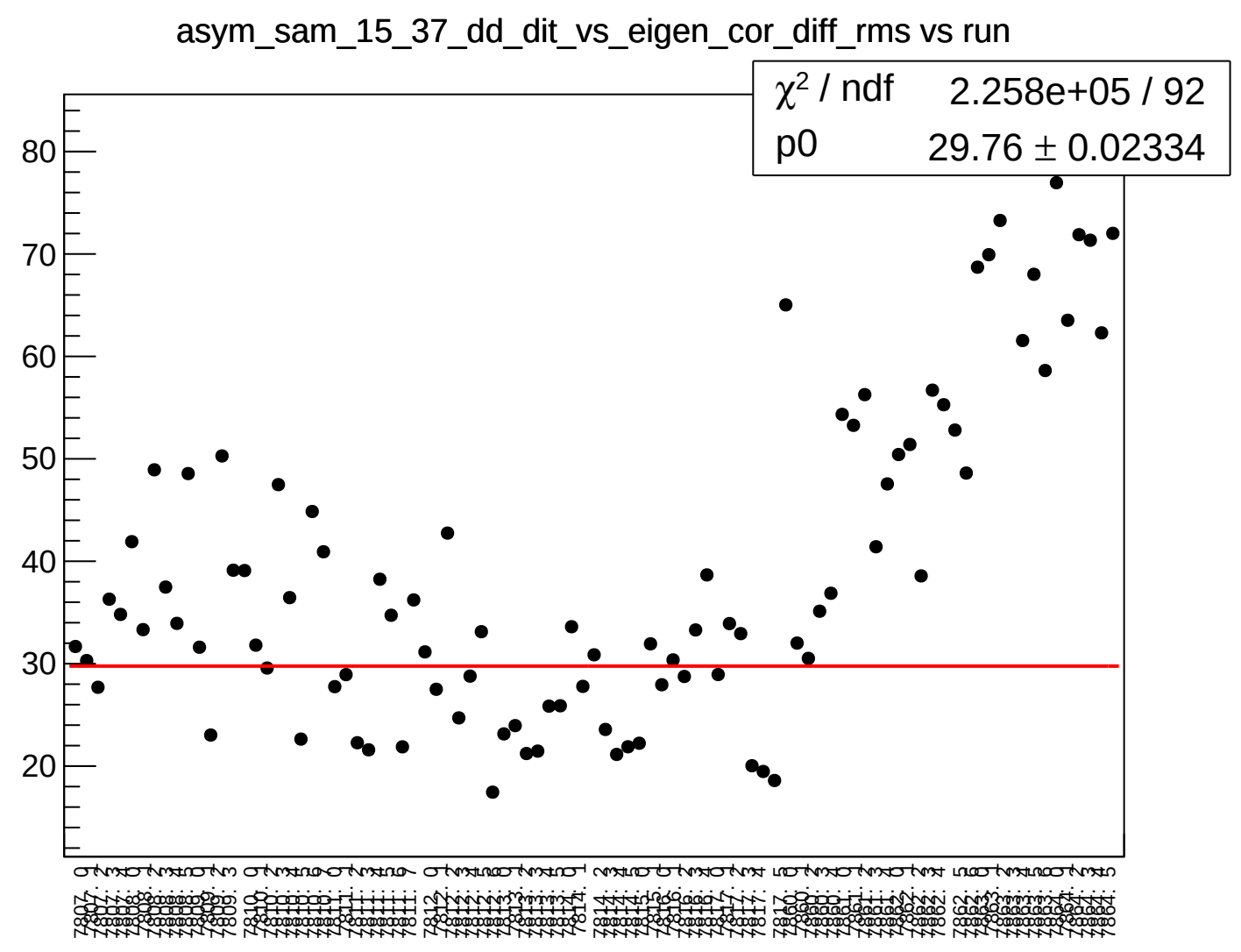

asym_sam_15_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 101.5 / 92
p0 0.01407 ± 0.03301
pull
Entries 93
Mean −9.819
Std Dev 0

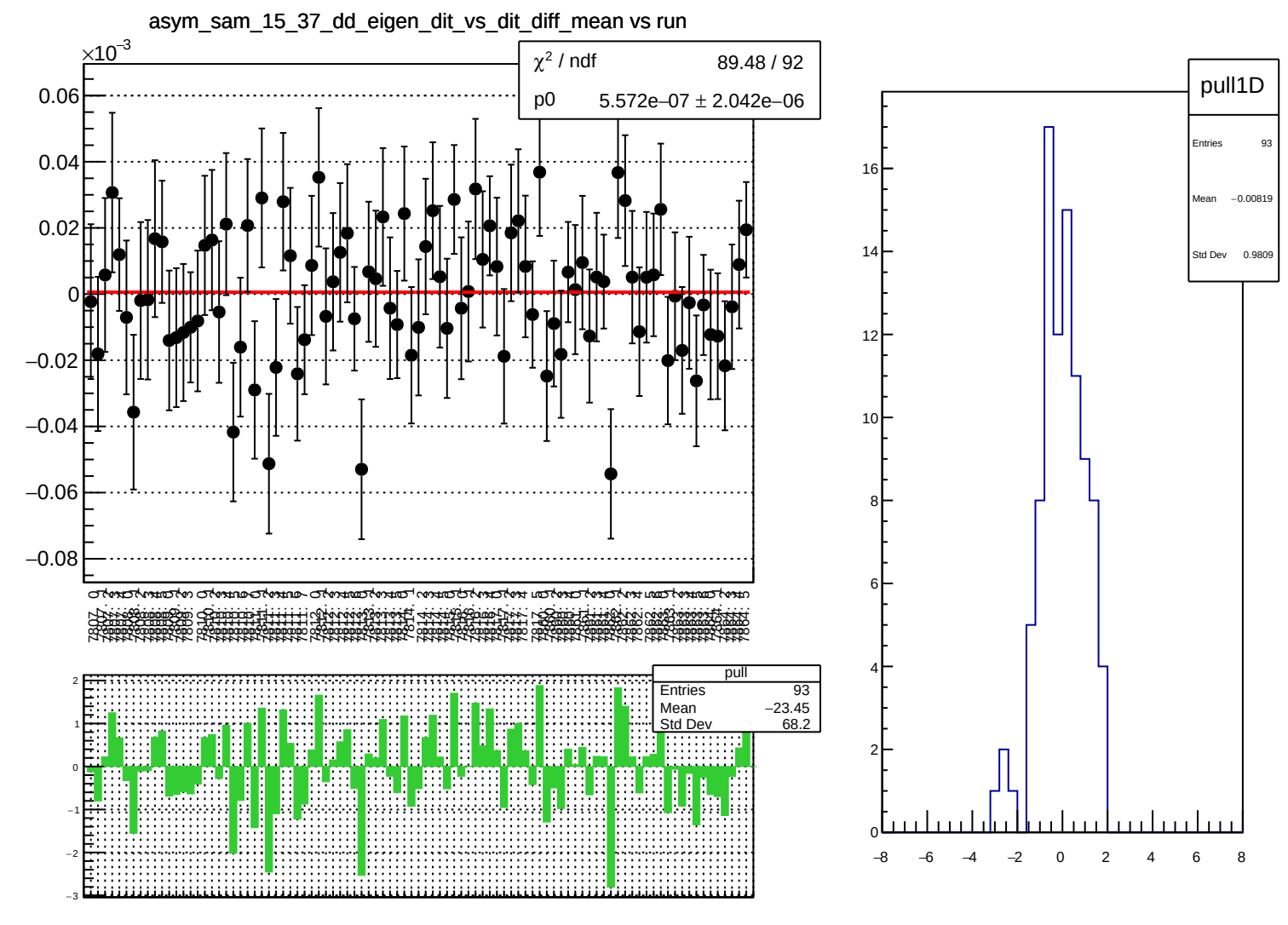

pull1D
Entries 93
Mean −0.02733
Std Dev 1.045

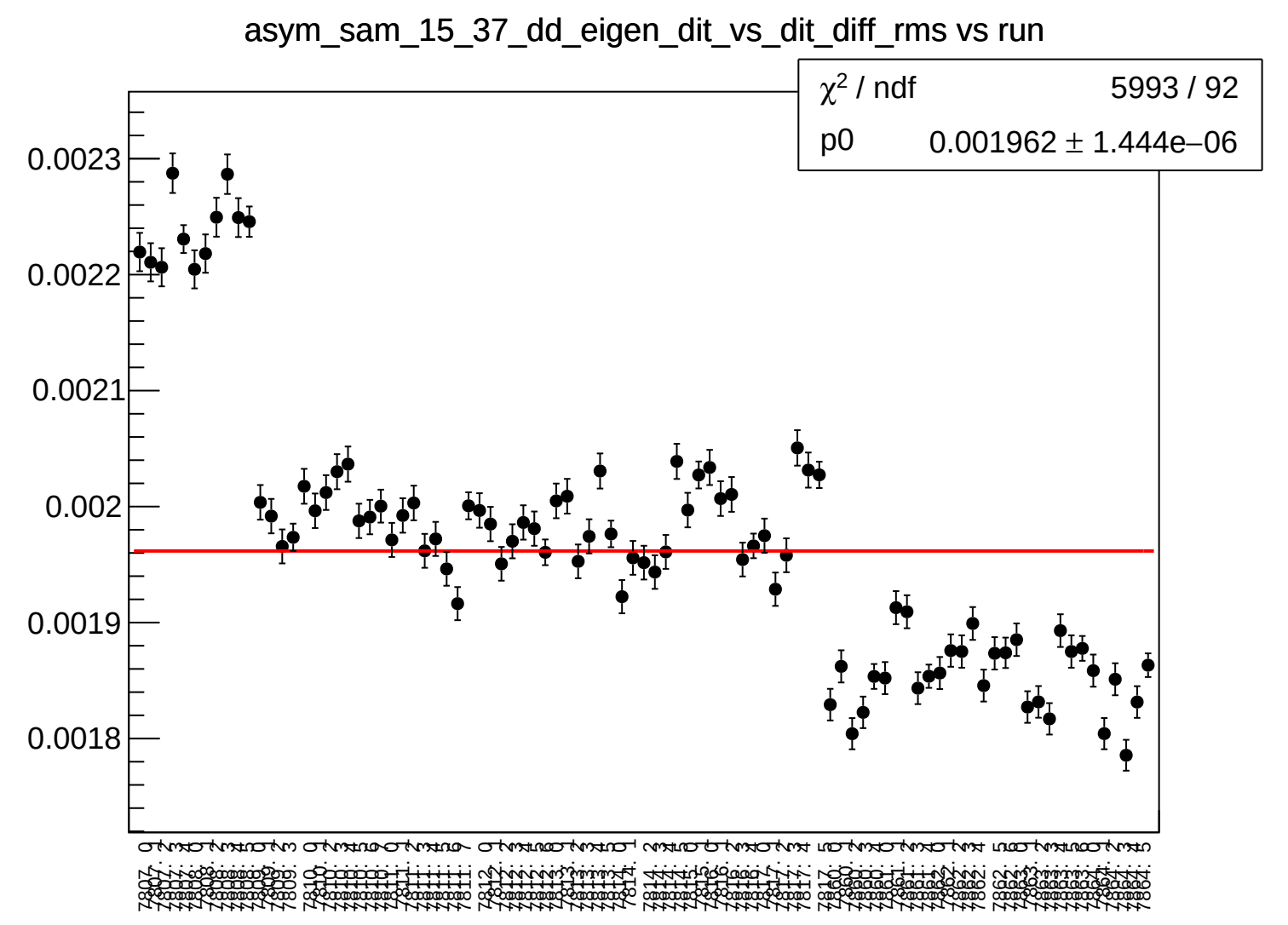

asym_sam_15_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.258e+05 / 92
p0 29.76 ± 0.02334
80
70
60
50
40
30
20

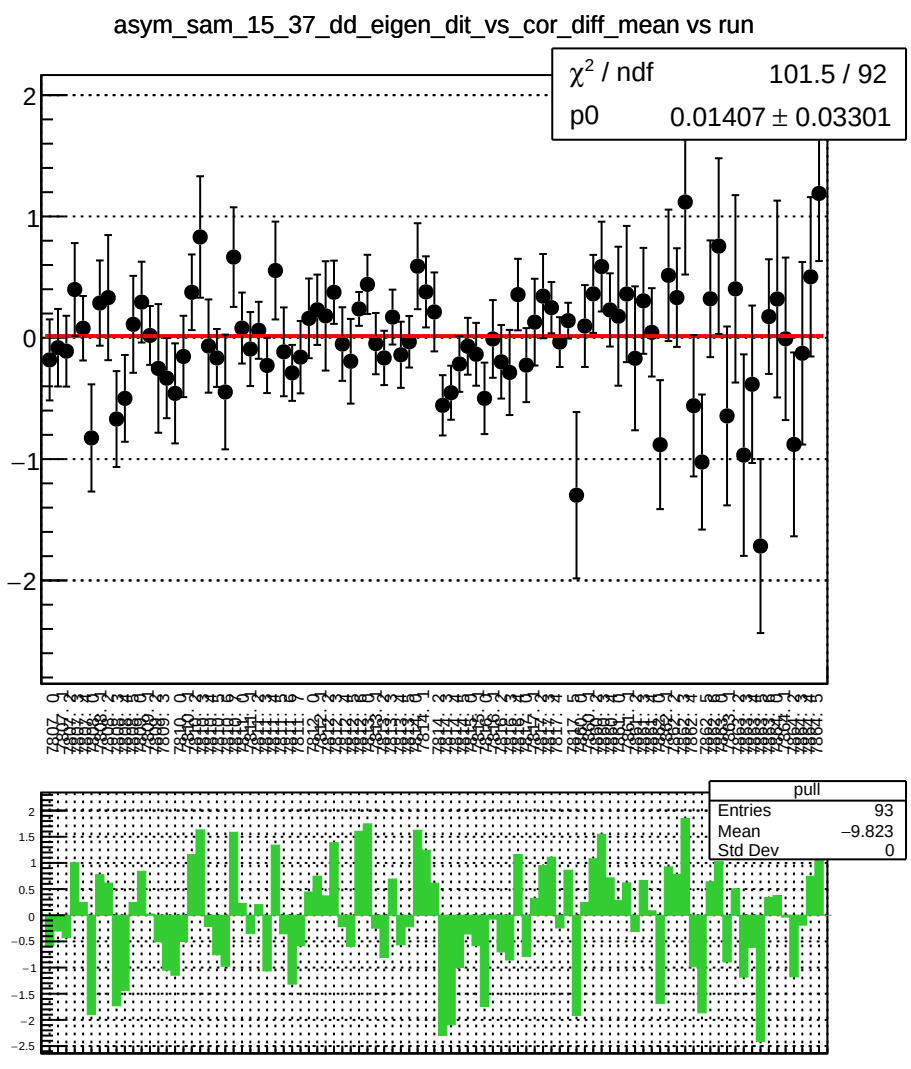

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.5 / 92
p0 0.01407 ± 0.03301
pull
Entries 93
Mean −9.819
Std Dev 0

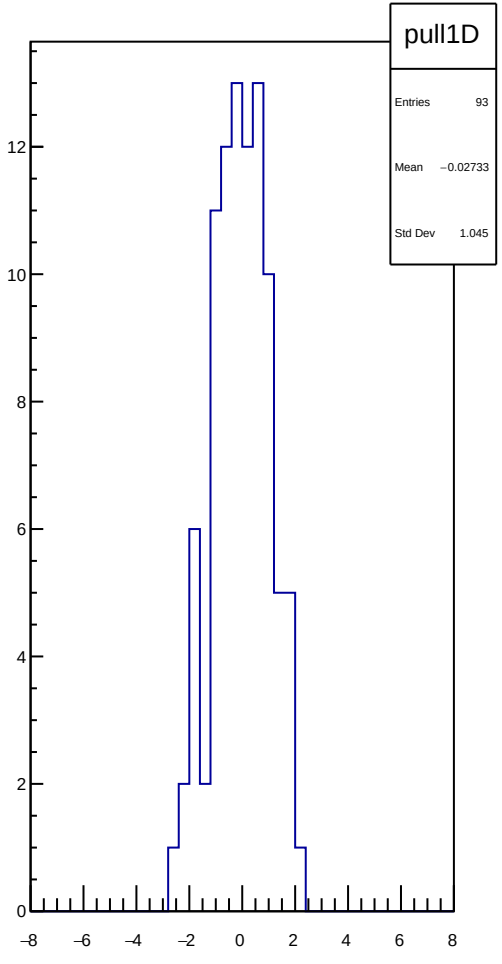

pull1D
Entries 93
Mean −0.02733
Std Dev 1.045

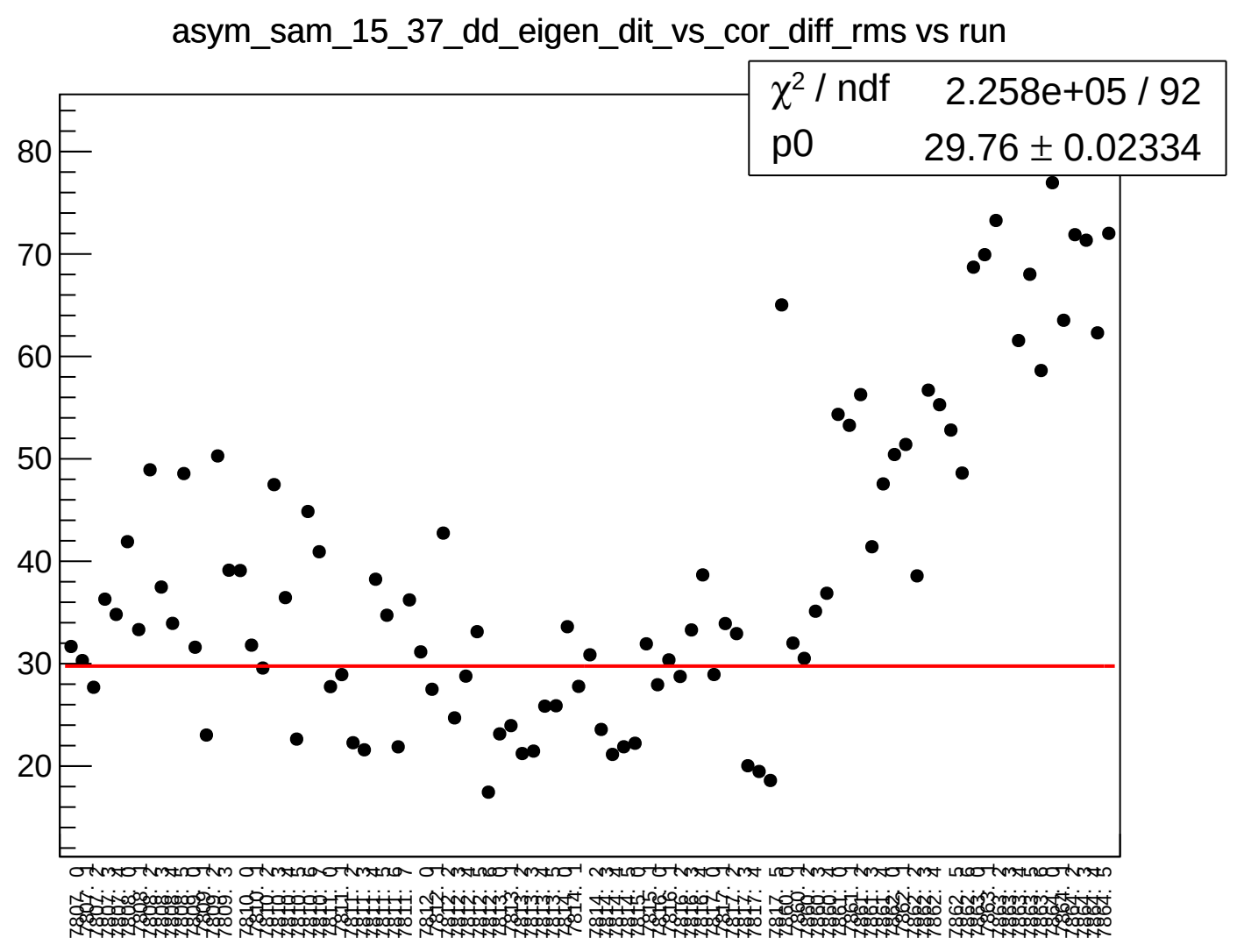

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.258e+05 / 92
p0 29.76 ± 0.02334
80
70
60
50
40
30
20

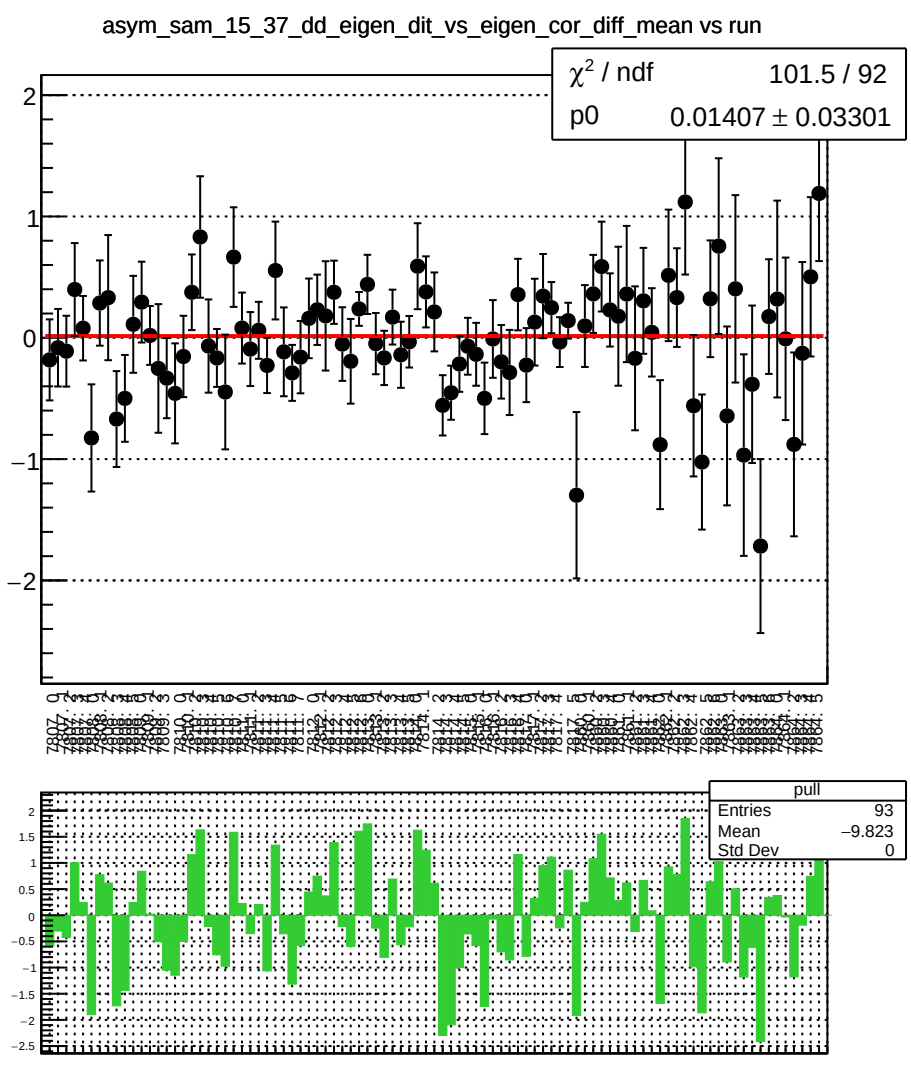

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.48 / 92
p0 5.572e−07 ± 2.042e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 93
Mean −23.45
Std Dev 68.2
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.00819
Std Dev 0.9809
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

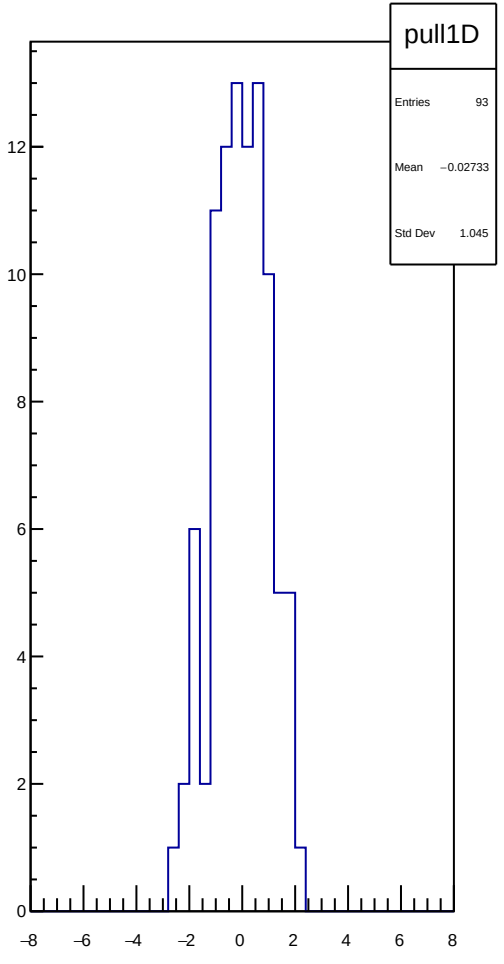

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5993 / 92
p0 0.001962 ± 1.444e−06
0.0023
0.0022
0.0021
0.002
0.0019
0.0018

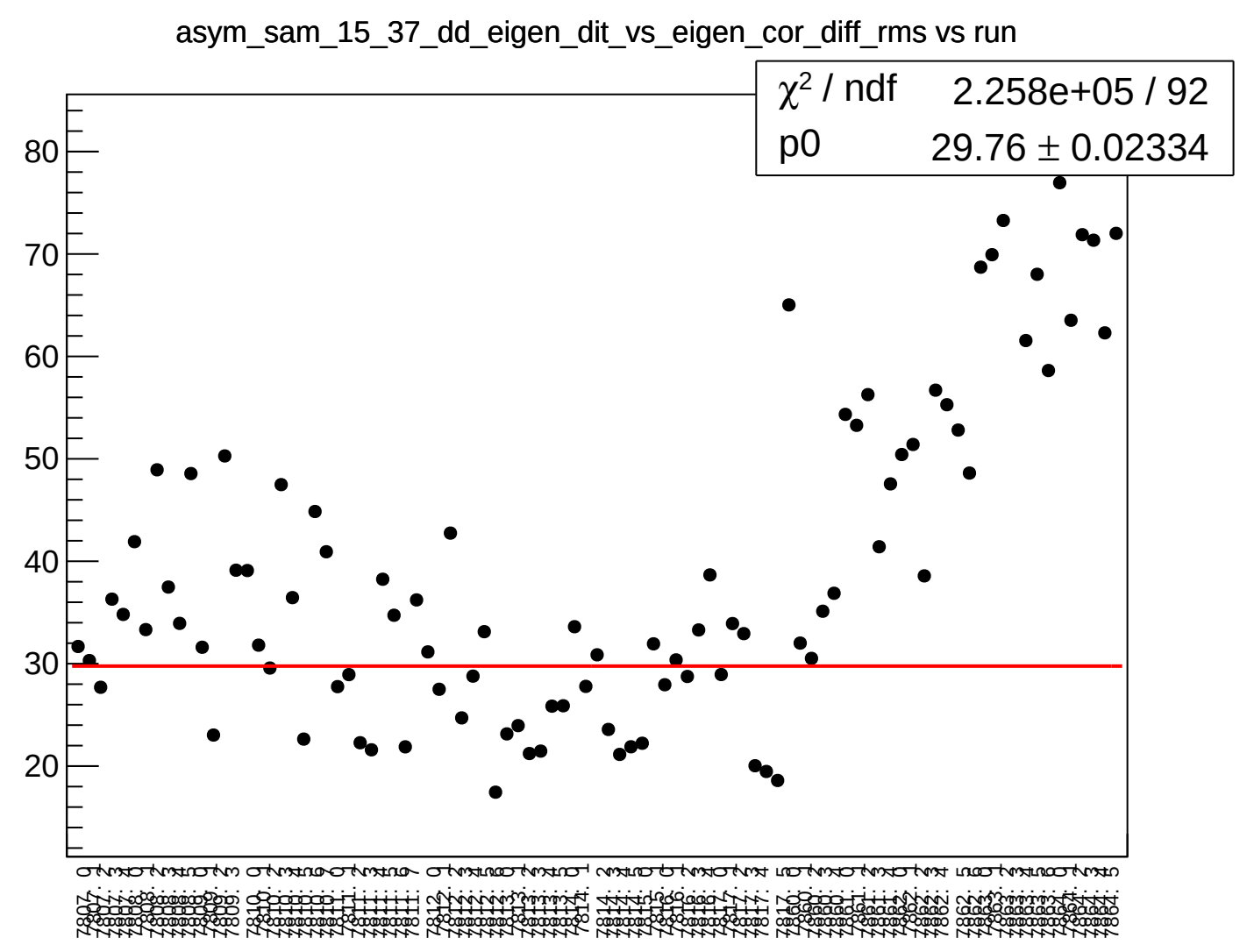

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 101.5 / 92
p0 0.01407 ± 0.03301
pull
Entries 93
Mean −9.823
Std Dev 0

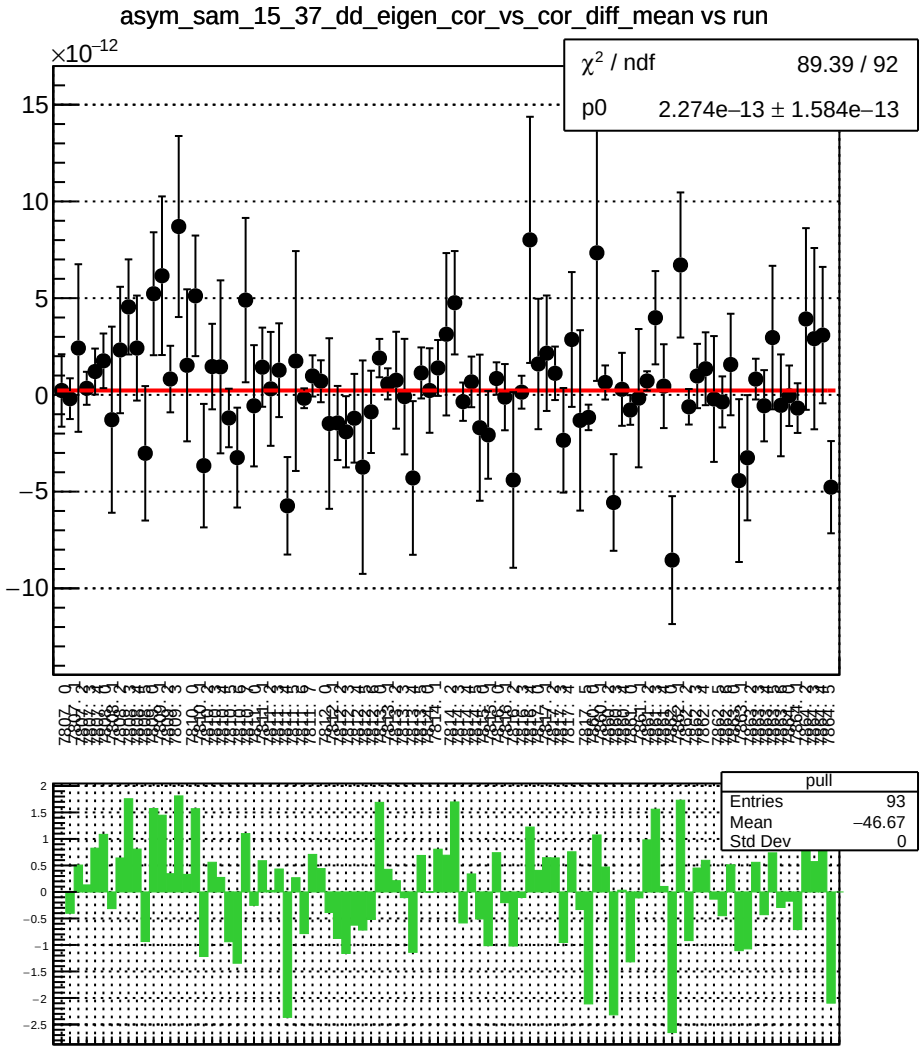

pull1D
Entries 93
Mean −0.02733
Std Dev 1.045

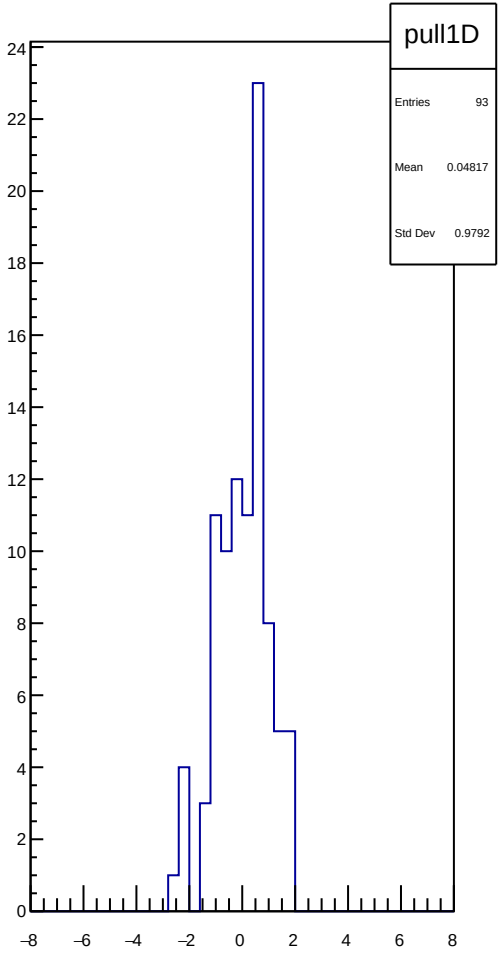

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.258e+05 / 92
p0 29.76 ± 0.02334
80
70
60
50
40
30
20

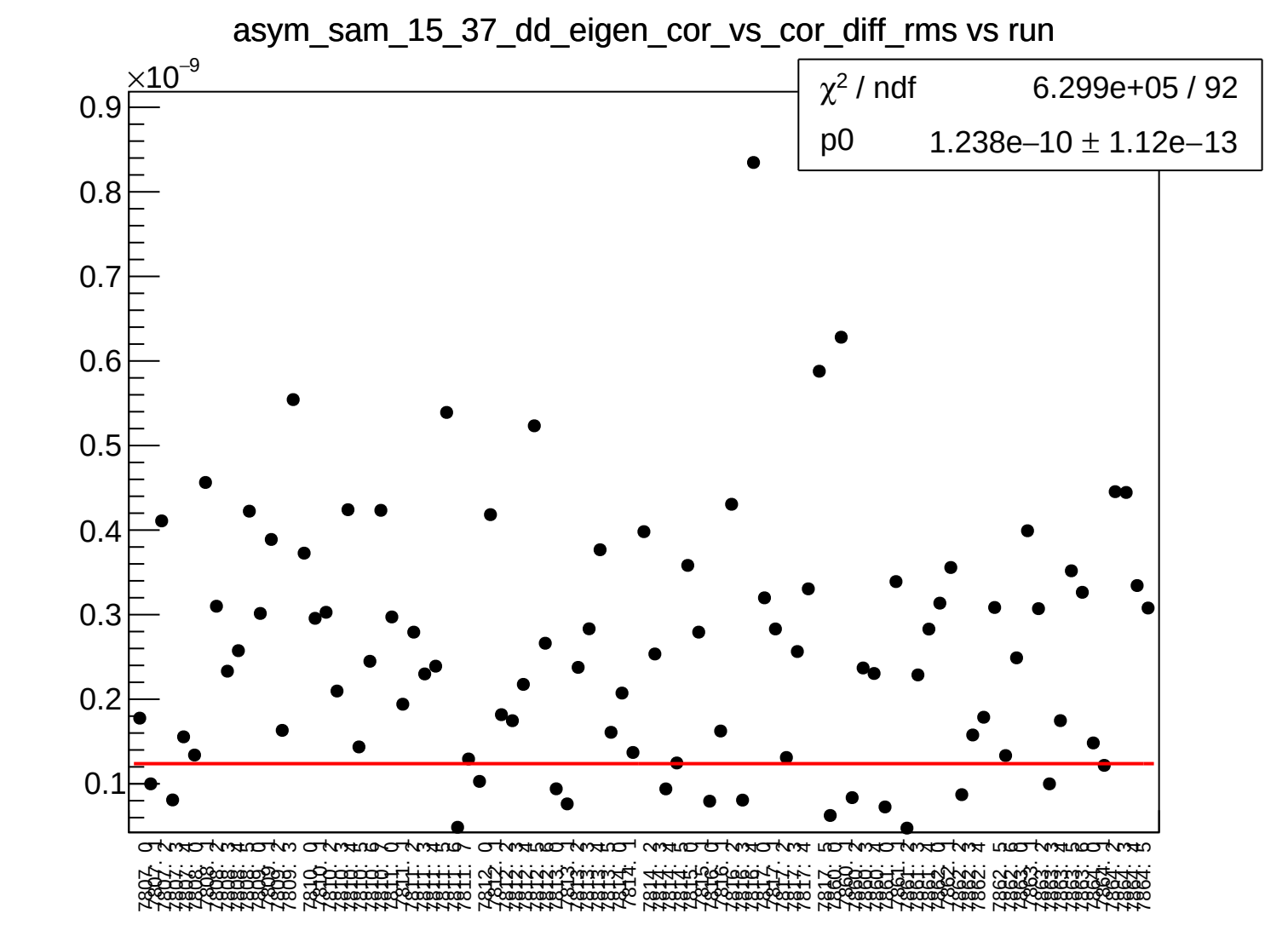

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.5 / 92
p0 0.01407 ± 0.03301
pull
Entries 93
Mean −9.823
Std Dev 0

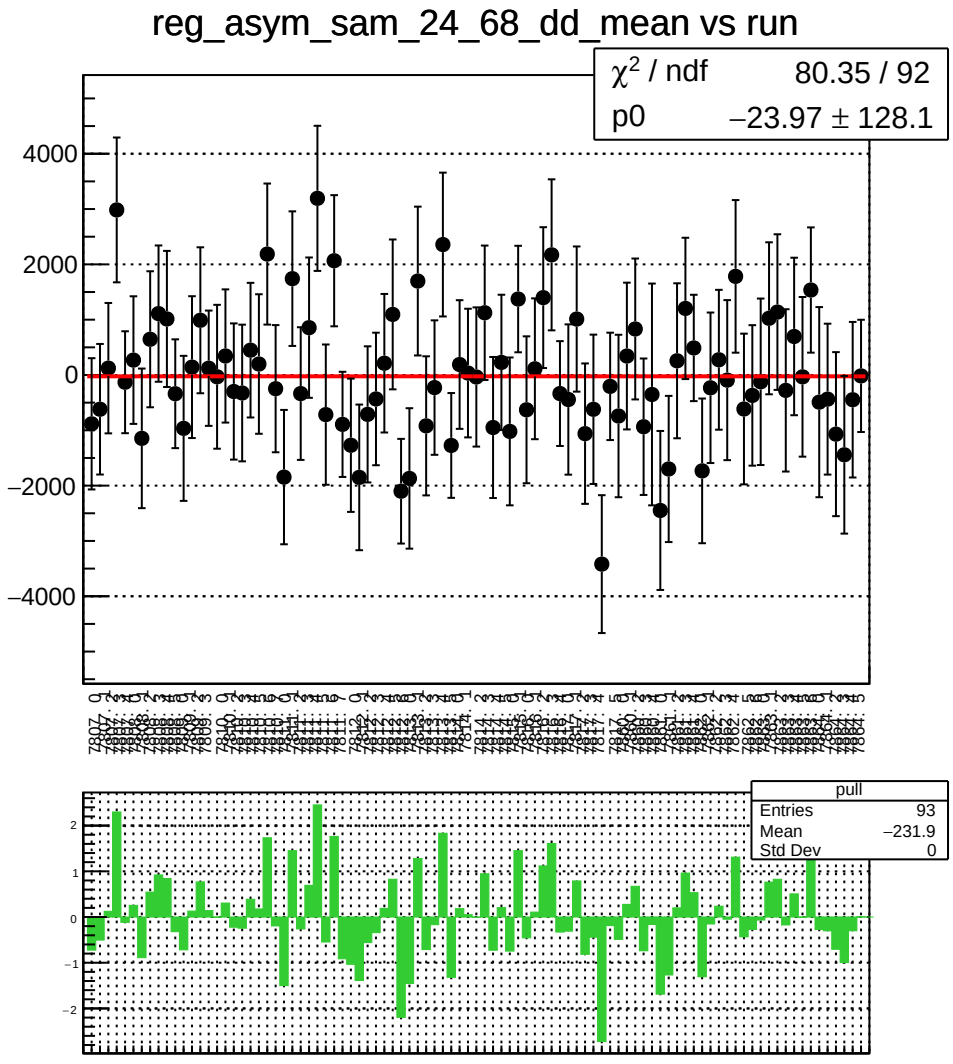

pull1D
Entries 93
Mean −0.02733
Std Dev 1.045

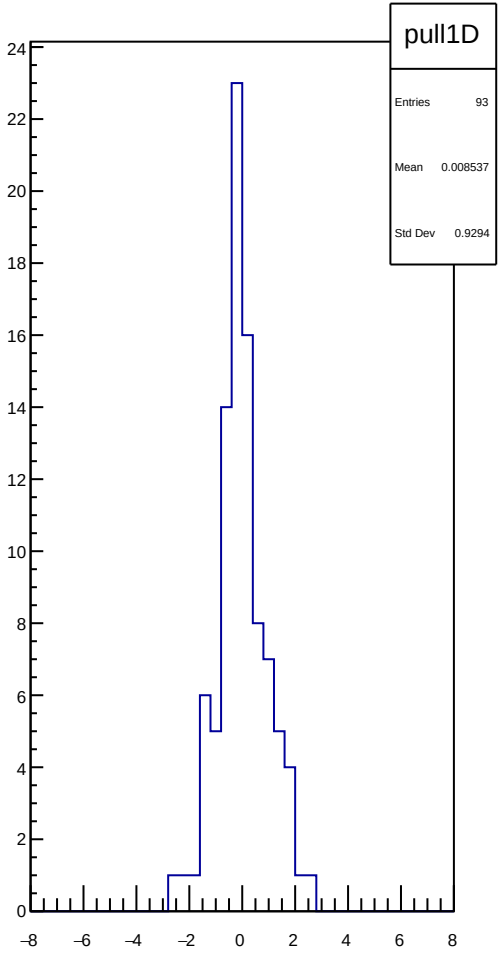

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.258e+05 / 92
p0 29.76 ± 0.02334
80
70
60
50
40
30
20

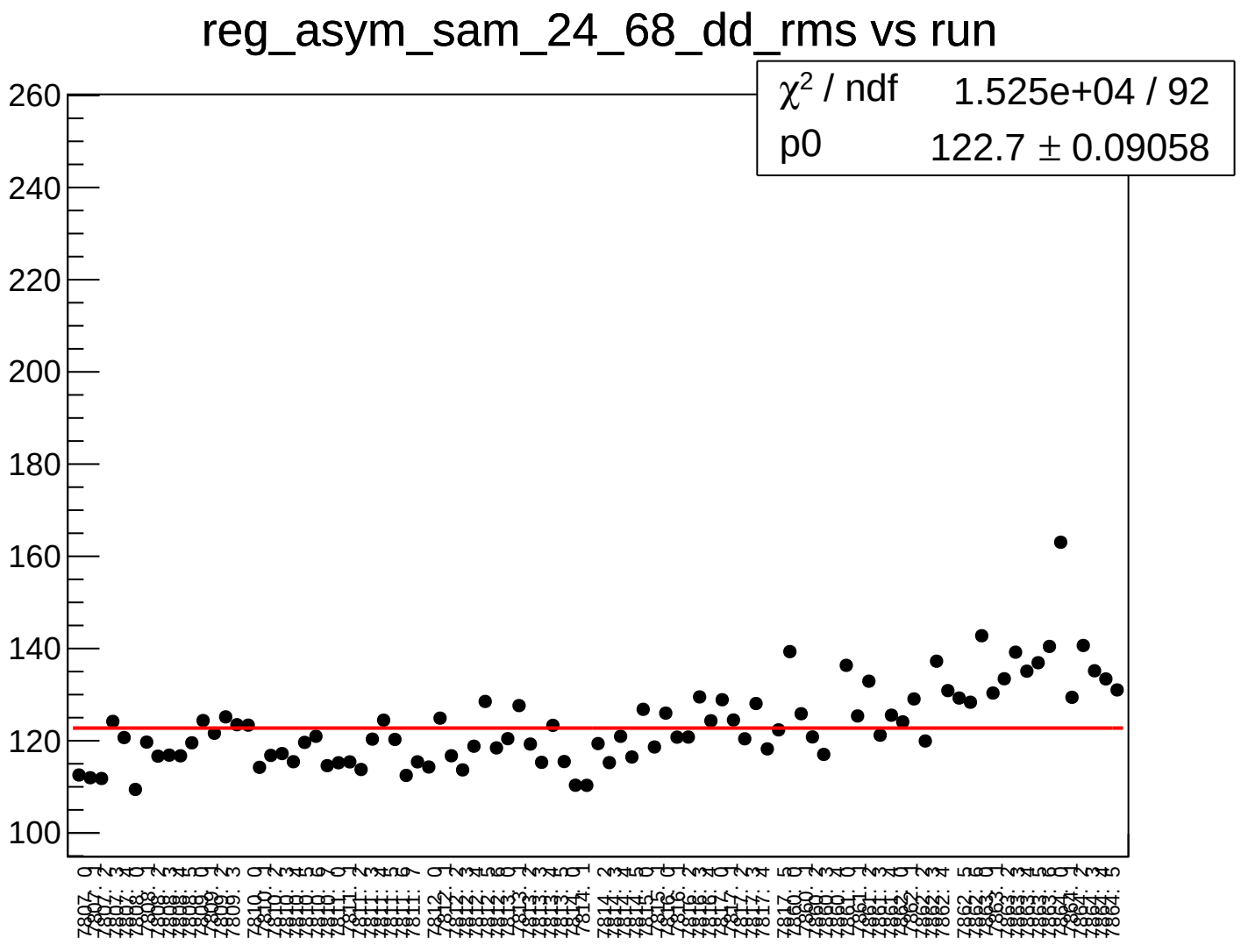

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.39 / 92
p0 2.274e−13 ± 1.584e−13
pull
Entries 93
Mean −46.67
Std Dev 0

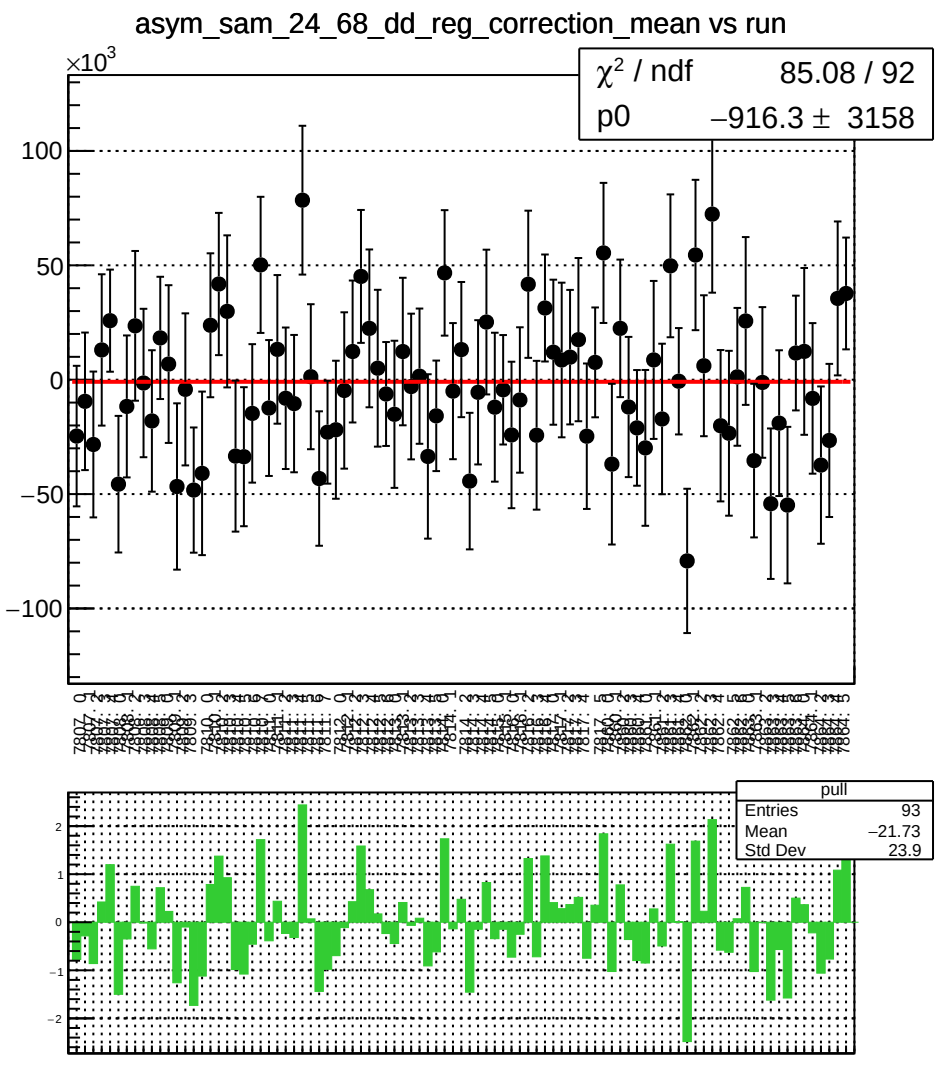

pull1D
Entries 93
Mean 0.04817
Std Dev 0.9792

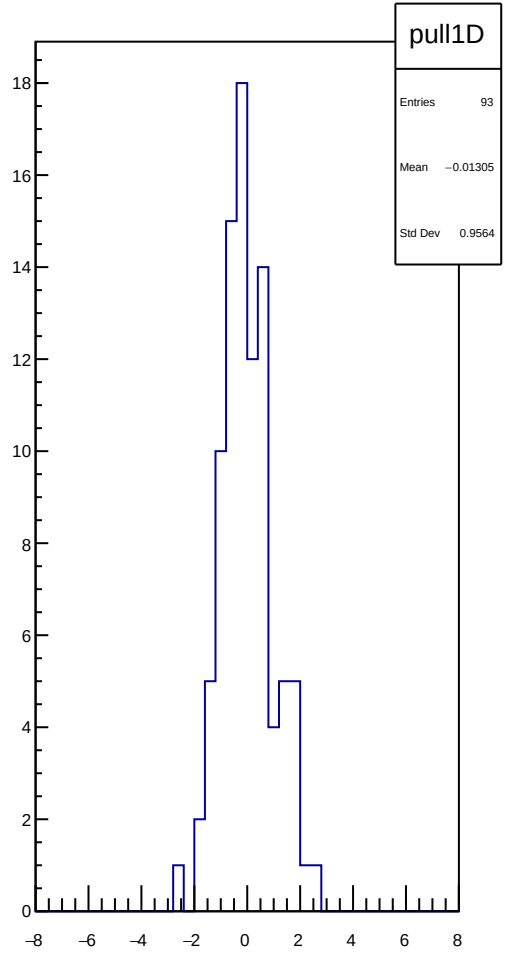

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.299e+05 / 92
p0 1.238e−10 ± 1.12e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

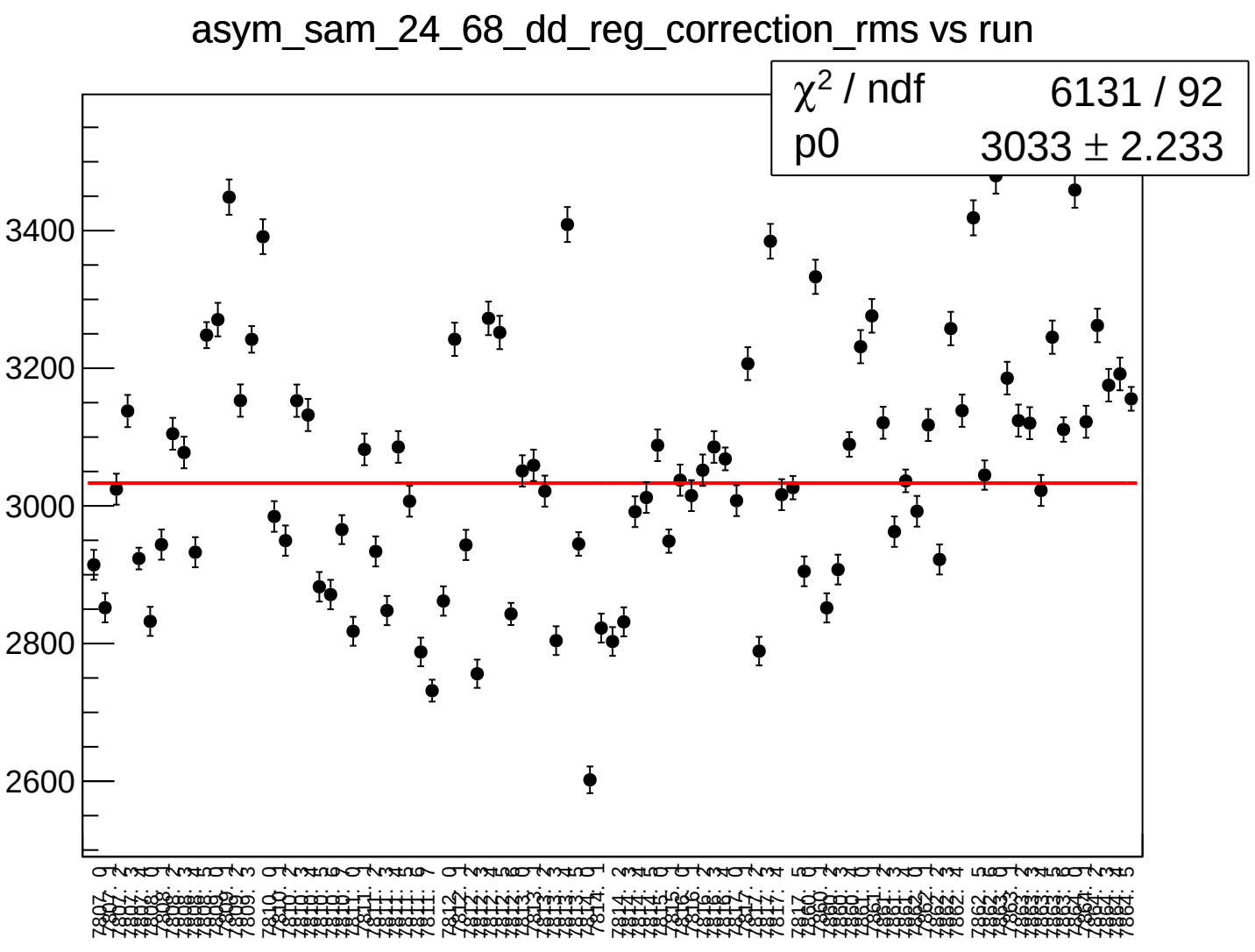

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 80.35 / 92
p0 −23.97 ± 128.1
4000
2000
0
−2000
−4000
pull
Entries 93
Mean −231.9
Std Dev 0
2
1
0
−1
−2

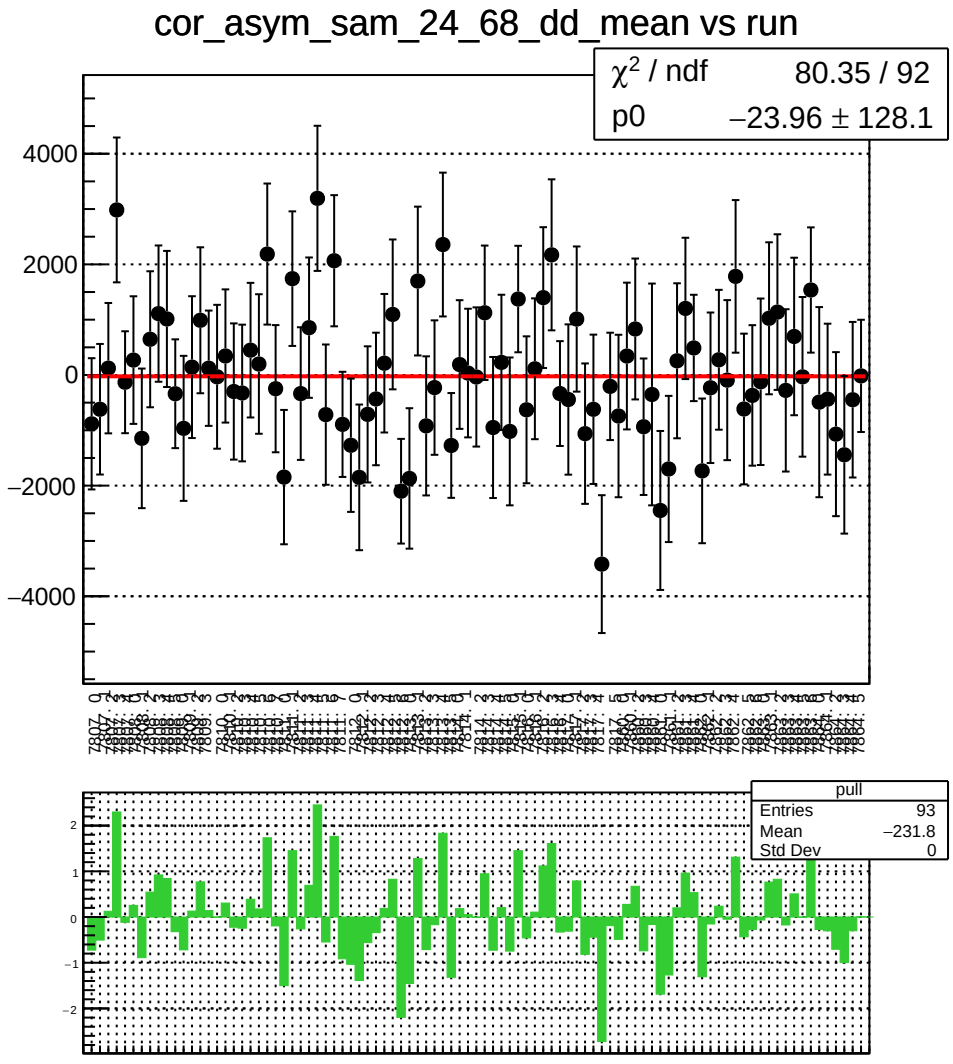

pull1D
Entries 93
Mean 0.008537
Std Dev 0.9294
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

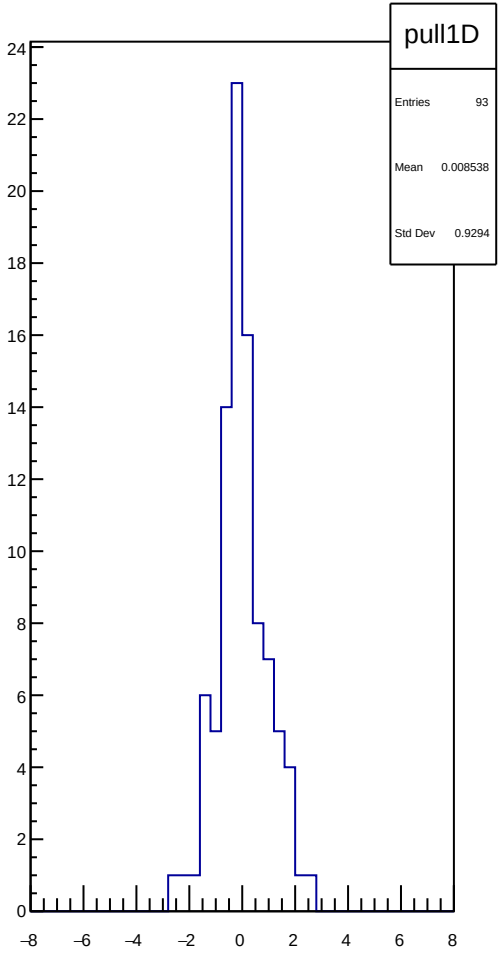

reg_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.525e+04 / 92
p0 122.7 ± 0.09058
260
240
220
200
180
160
140
120
100

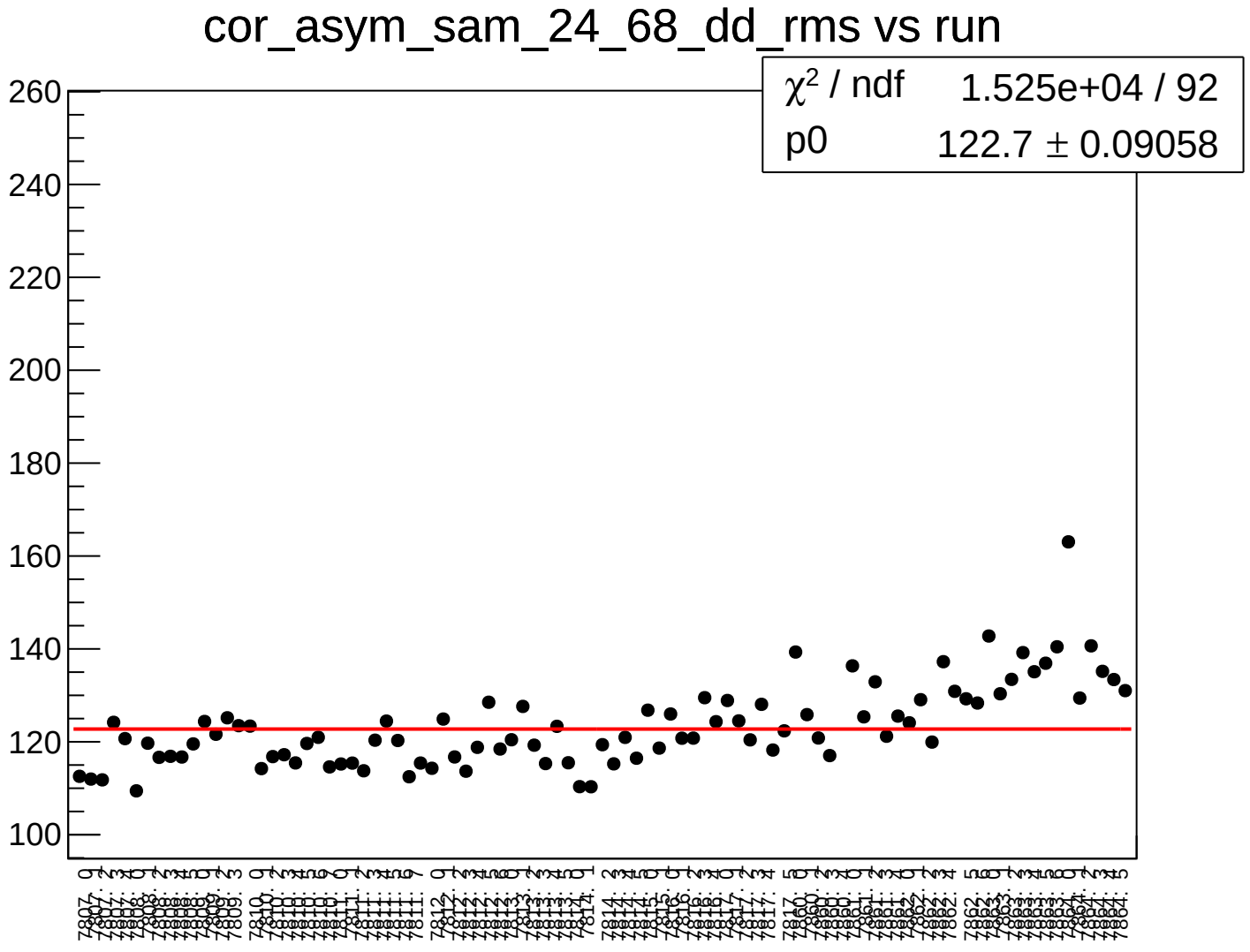

asym_sam_24_68_dd_reg_correction_mean vs run
×10^3
χ² / ndf 85.08 / 92
p0 −916.3 ± 3158
100
50
0
−50
−100
pull
Entries 93
Mean −21.73
Std Dev 23.9
2
1
0
−1
−2

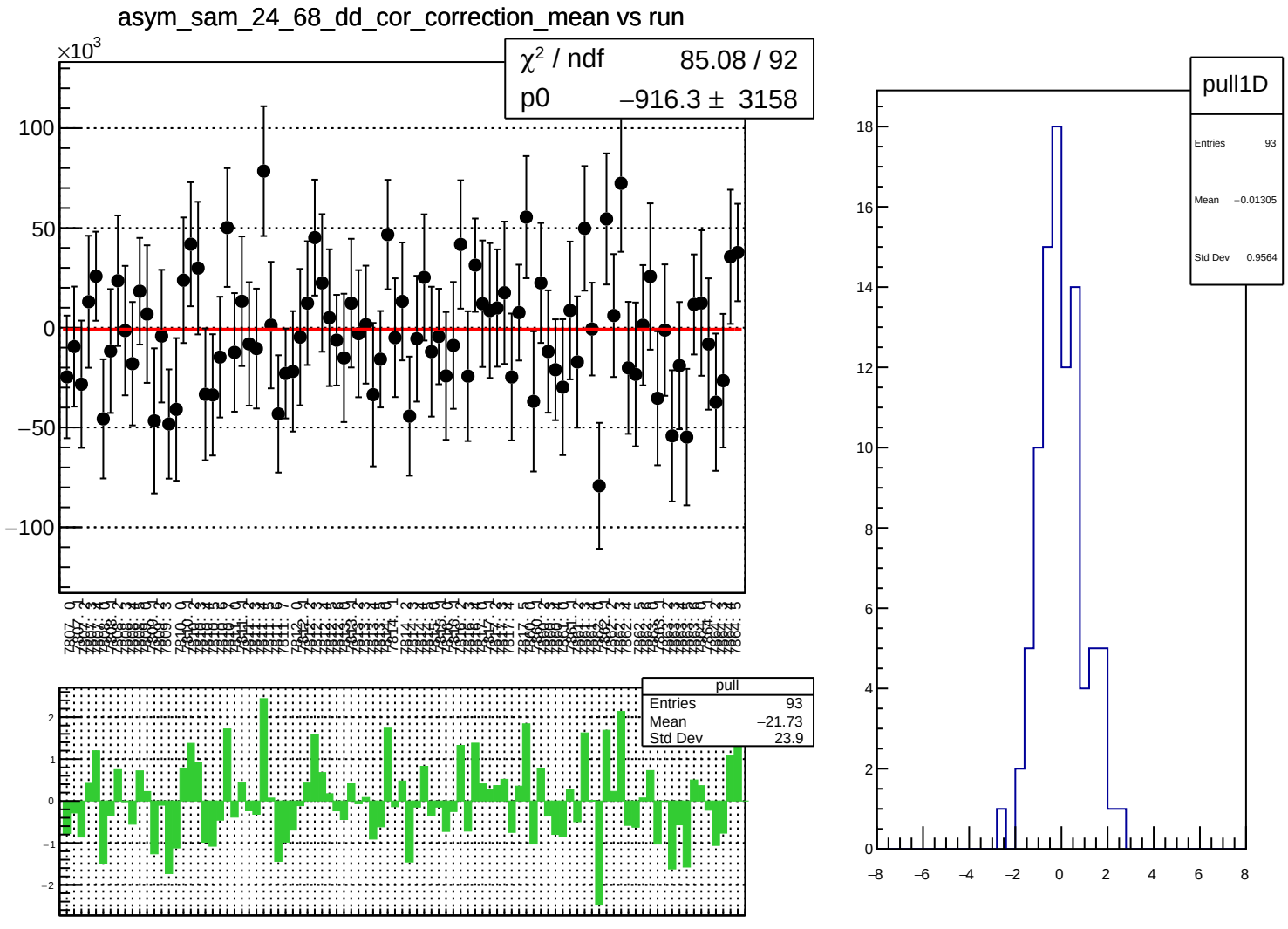

pull1D
Entries 93
Mean −0.01305
Std Dev 0.9564
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

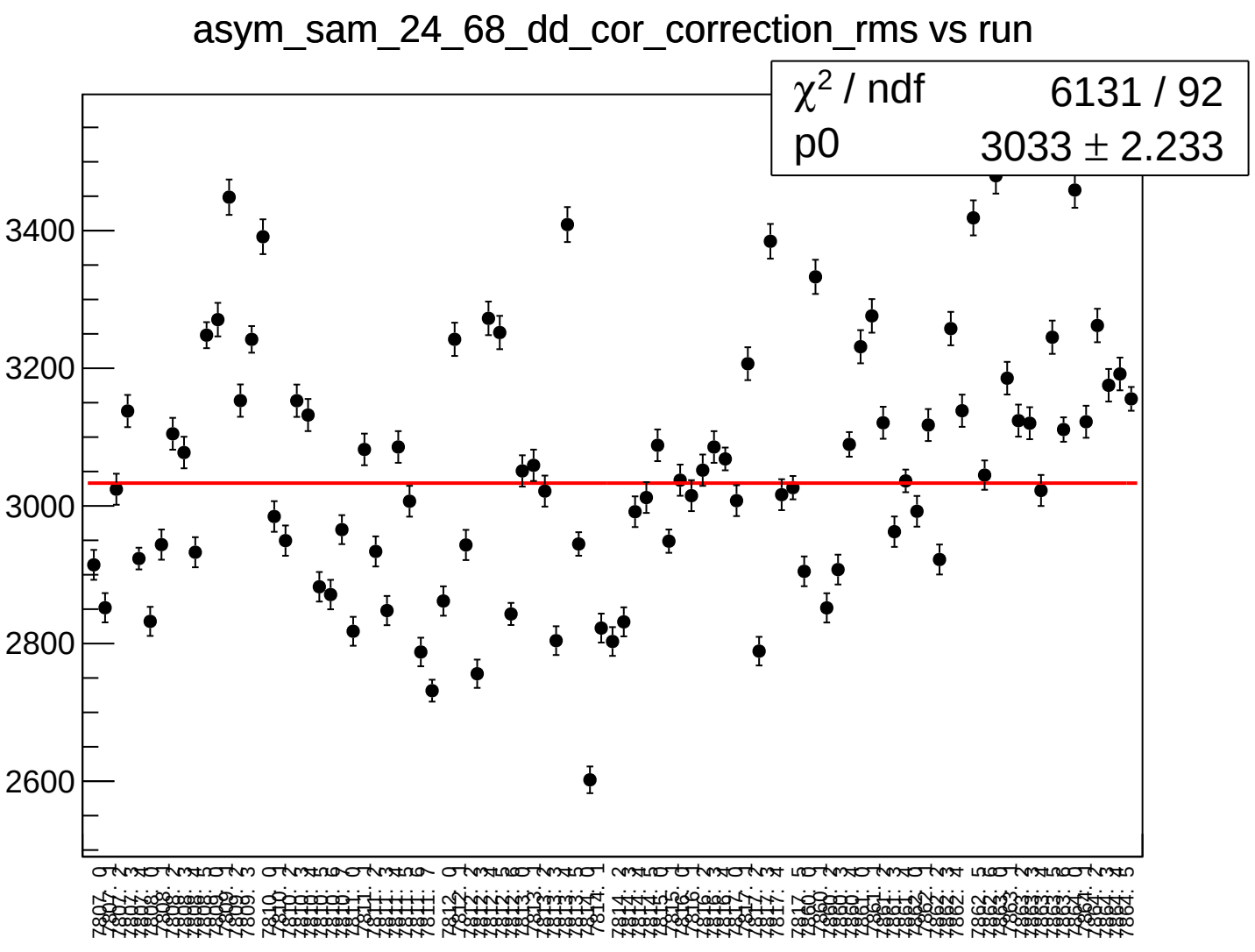

asym_sam_24_68_dd_reg_correction_rms vs run
χ² / ndf 6131 / 92
p0 3033 ± 2.233
3400
3200
3000
2800
2600

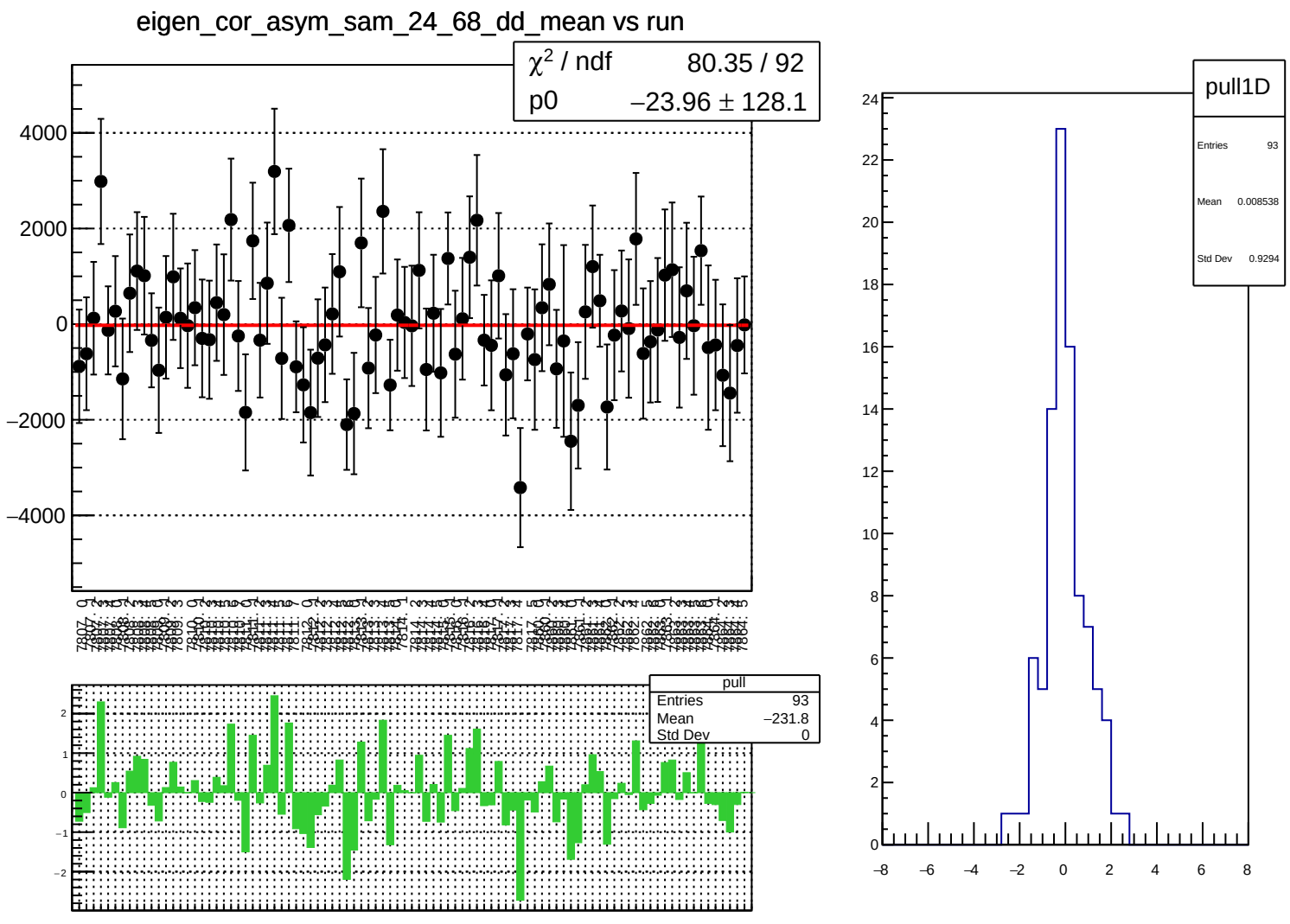

cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 80.35 / 92
p0 −23.96 ± 128.1
4000
2000
0
−2000
−4000
pull
Entries 93
Mean −231.8
Std Dev 0
2
1
0
−1
−2

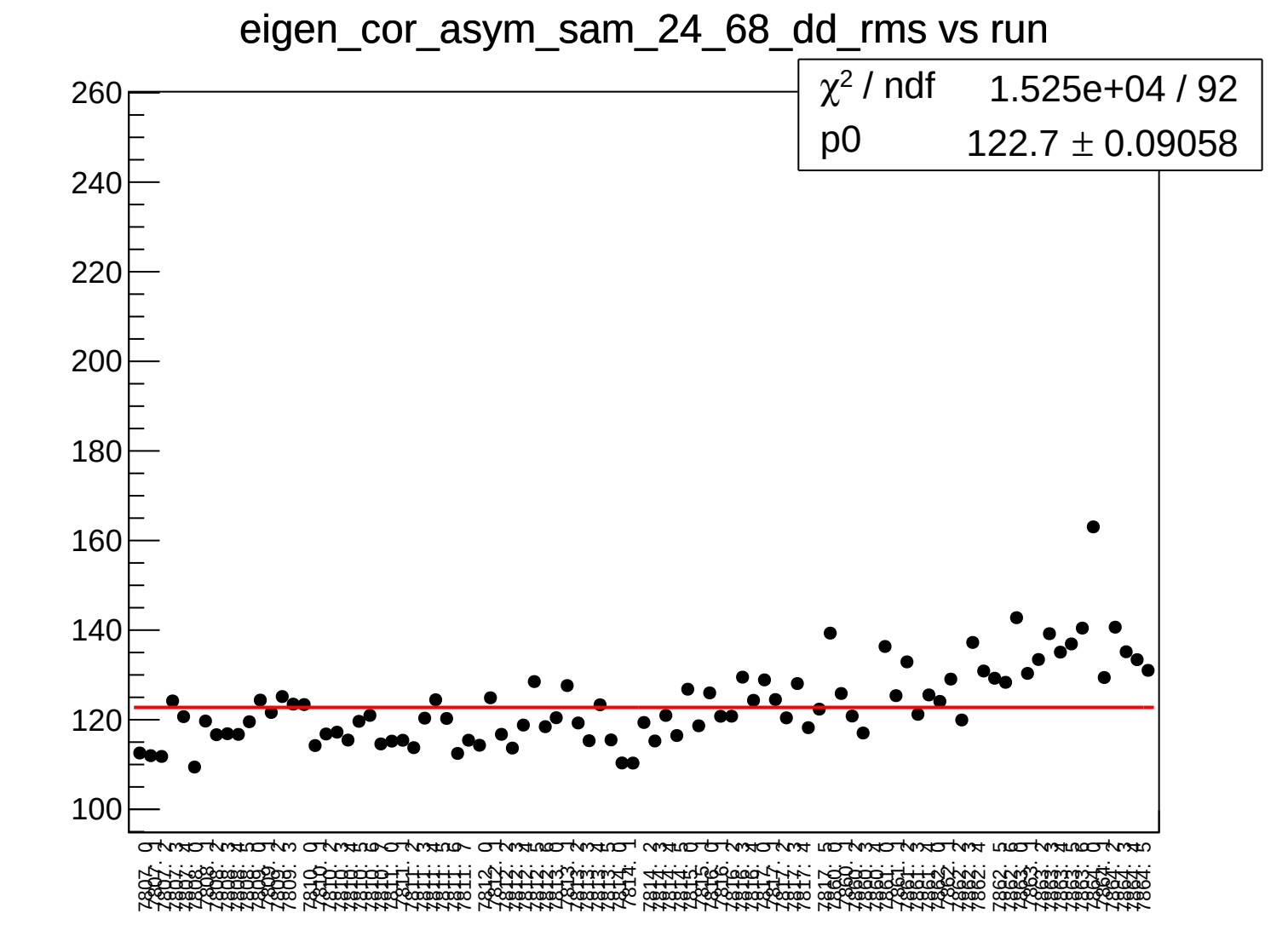

pull1D
Entries 93
Mean 0.008538
Std Dev 0.9294
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

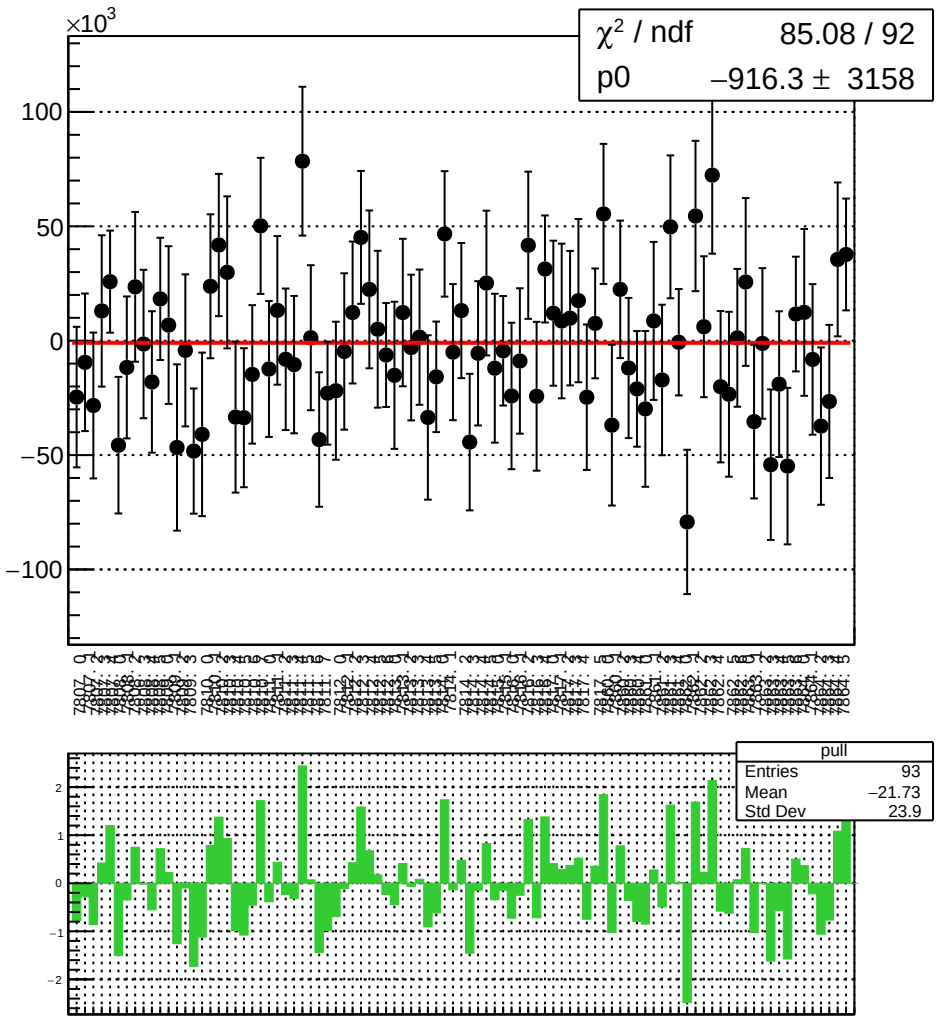

cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.525e+04 / 92
p0 122.7 ± 0.09058
260
240
220
200
180
160
140
120
100

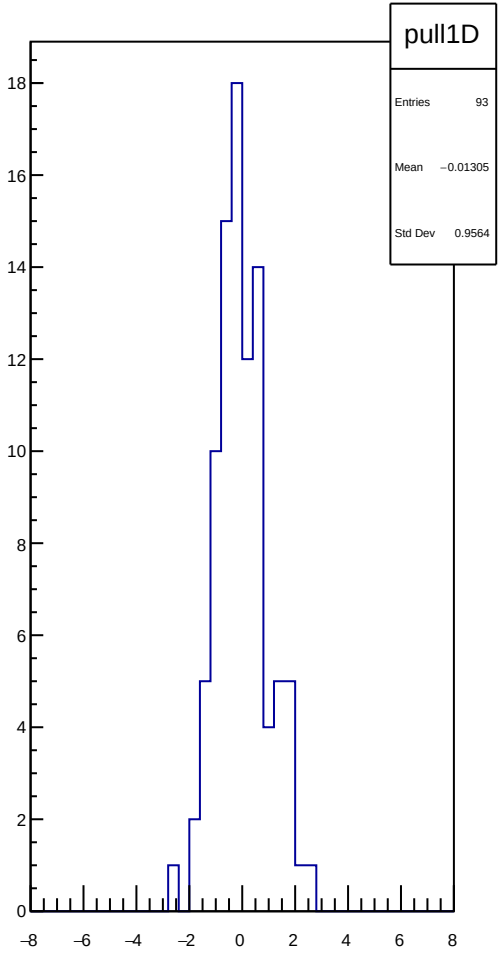

asym_sam_24_68_dd_cor_correction_mean vs run
×10^3
χ² / ndf 85.08 / 92
p0 −916.3 ± 3158
100
50
0
−50
−100
pull
Entries 93
Mean −21.73
Std Dev 23.9
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.01305
Std Dev 0.9564
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

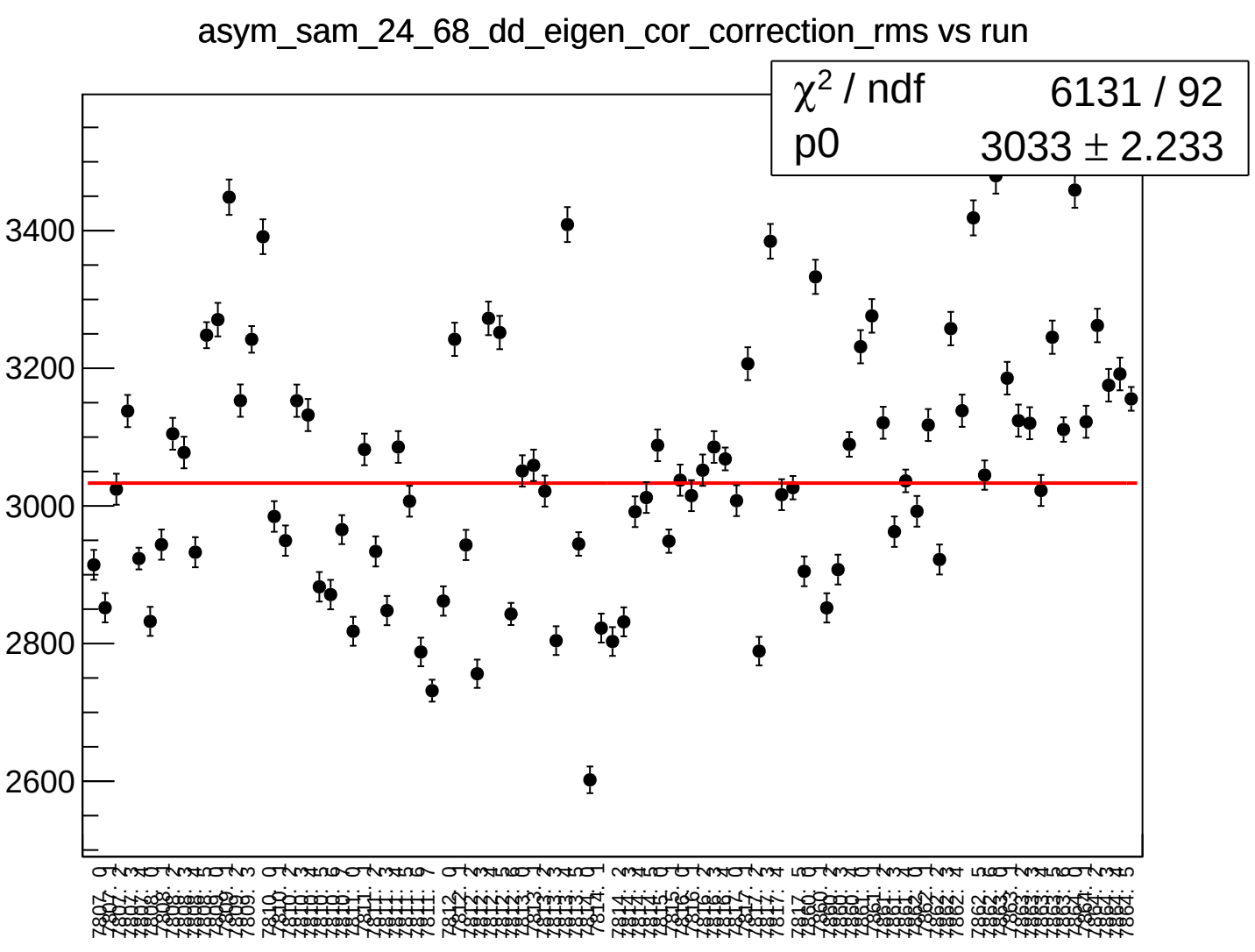

asym_sam_24_68_dd_cor_correction_rms vs run
χ² / ndf 6131 / 92
p0 3033 ± 2.233
3400
3200
3000
2800
2600

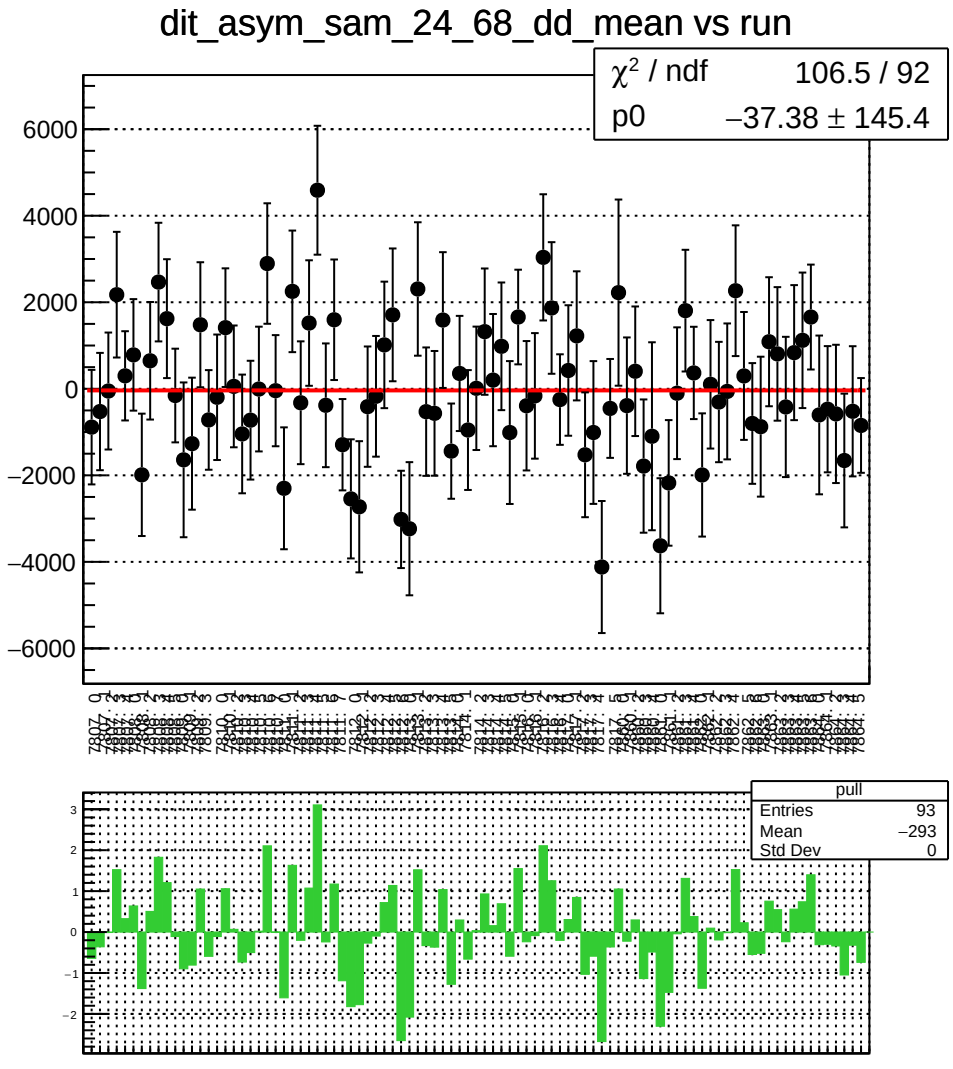

eigen_cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 80.35 / 92
p0 −23.96 ± 128.1
4000
2000
0
−2000
−4000
pull
Entries 93
Mean −231.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.008538
Std Dev 0.9294
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

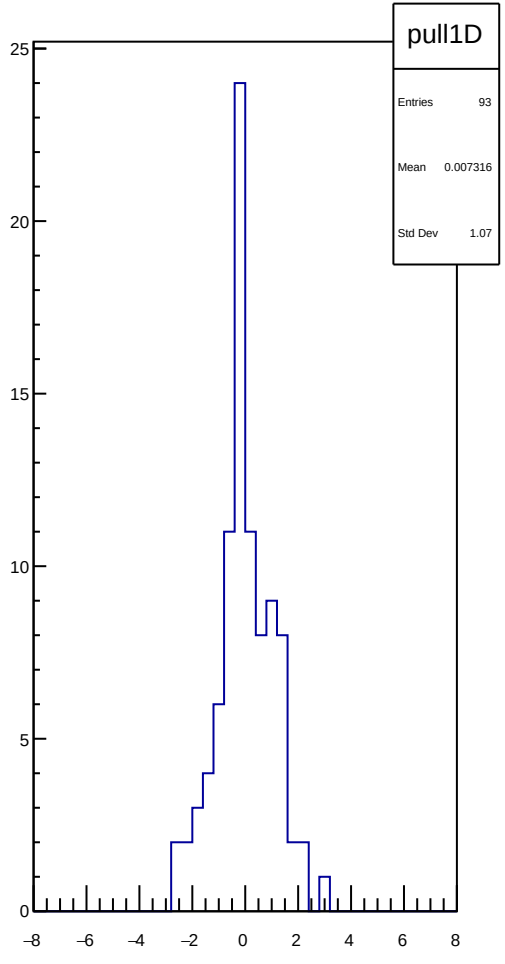

eigen_cor_asym_sam_24_68_dd_rms vs run
χ^2 / ndf 1.525e+04 / 92
p0 122.7 ± 0.09058
260
240
220
200
180
160
140
120
100

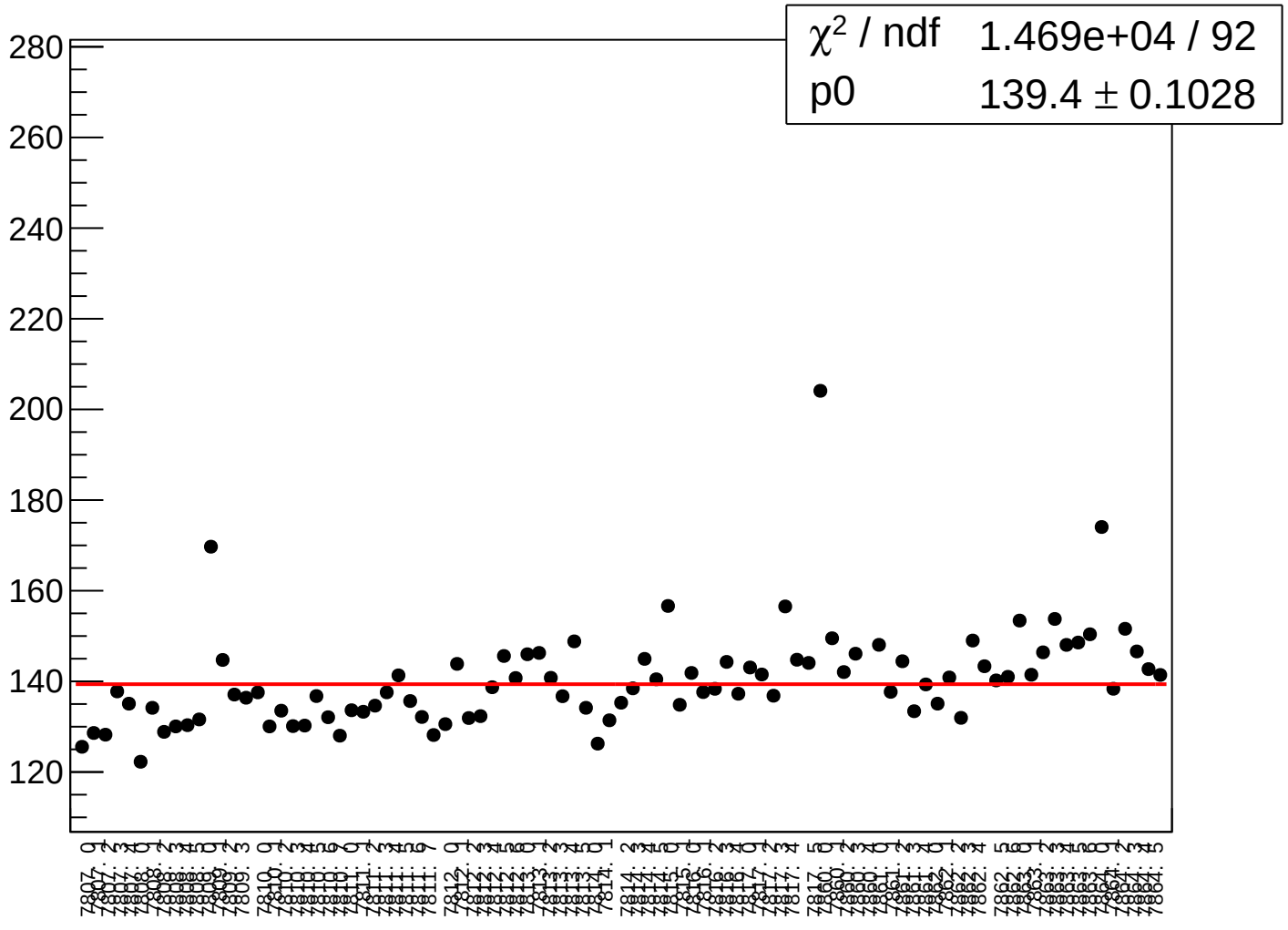

asym_sam_24_68_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 85.08 / 92
p0 −916.3 ± 3158
100
50
0
−50
−100
pull
Entries 93
Mean −21.73
Std Dev 23.9
2
1
0
−1
−2

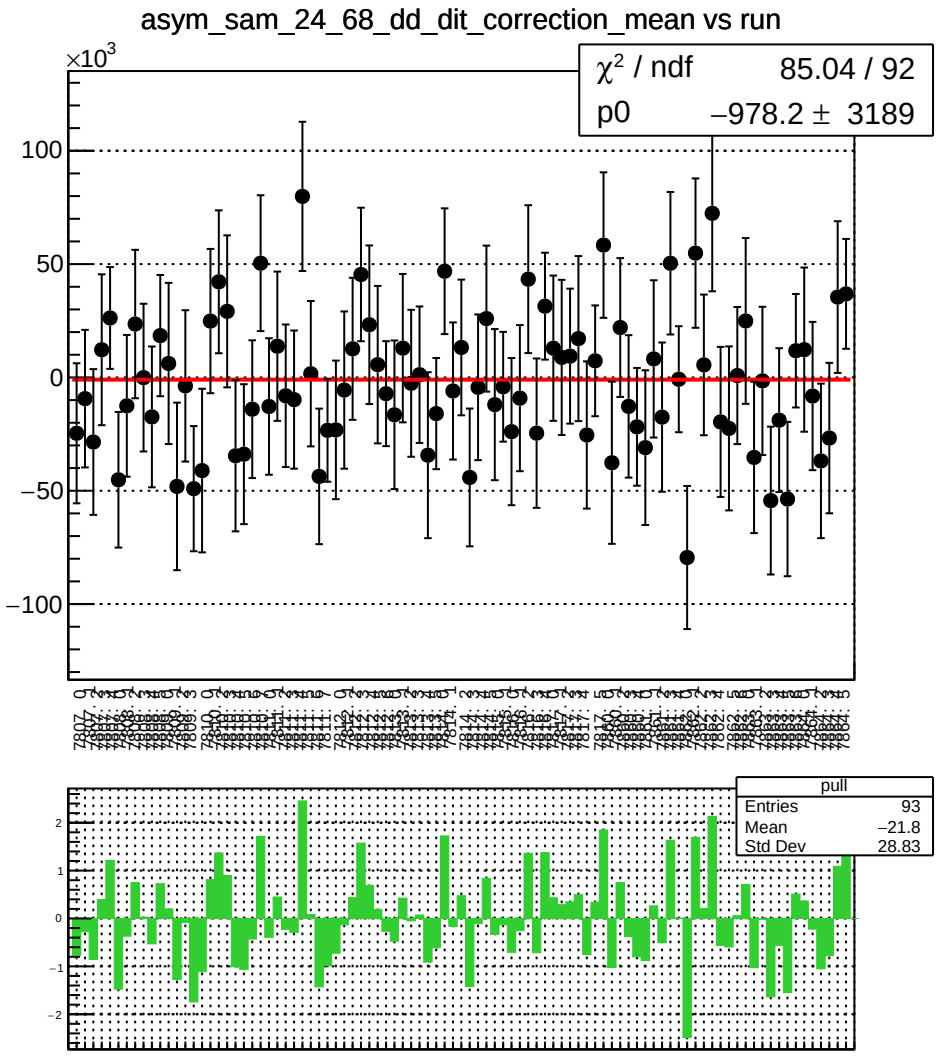

pull1D
Entries 93
Mean −0.01305
Std Dev 0.9564
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

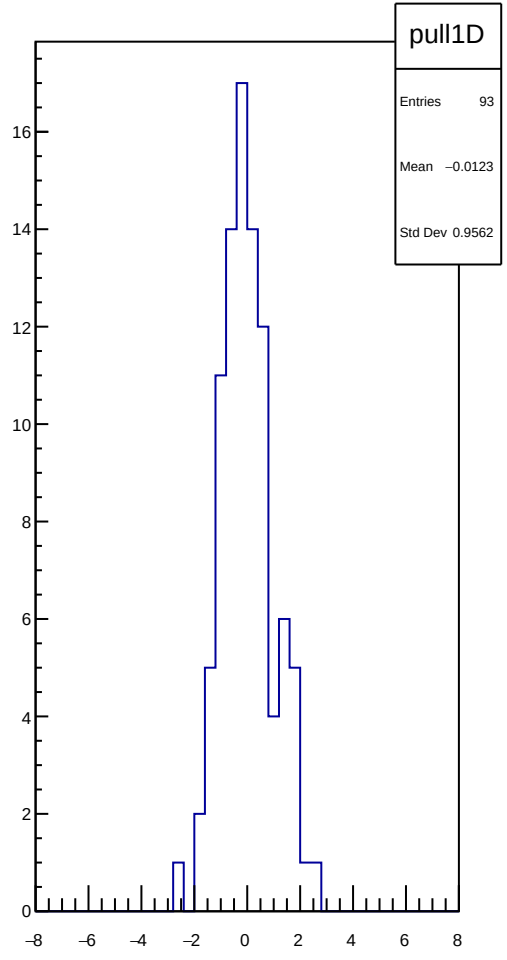

asym_sam_24_68_dd_eigen_cor_correction_rms vs run
χ² / ndf 6131 / 92
p0 3033 ± 2.233
3400
3200
3000
2800
2600

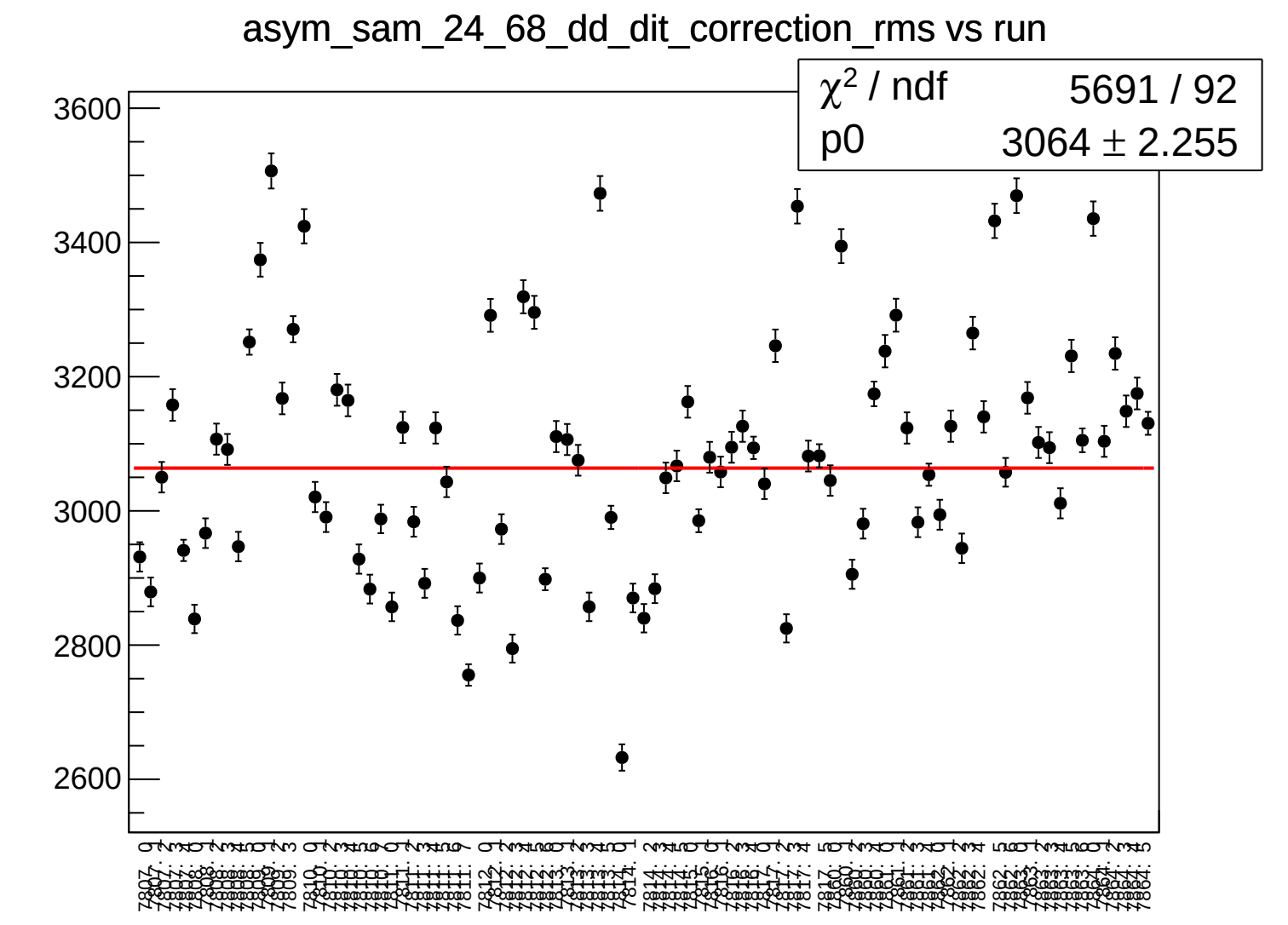

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 106.5 / 92
p0 −37.38 ± 145.4
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean −293
Std Dev 0
3
2
1
0
−1
−2

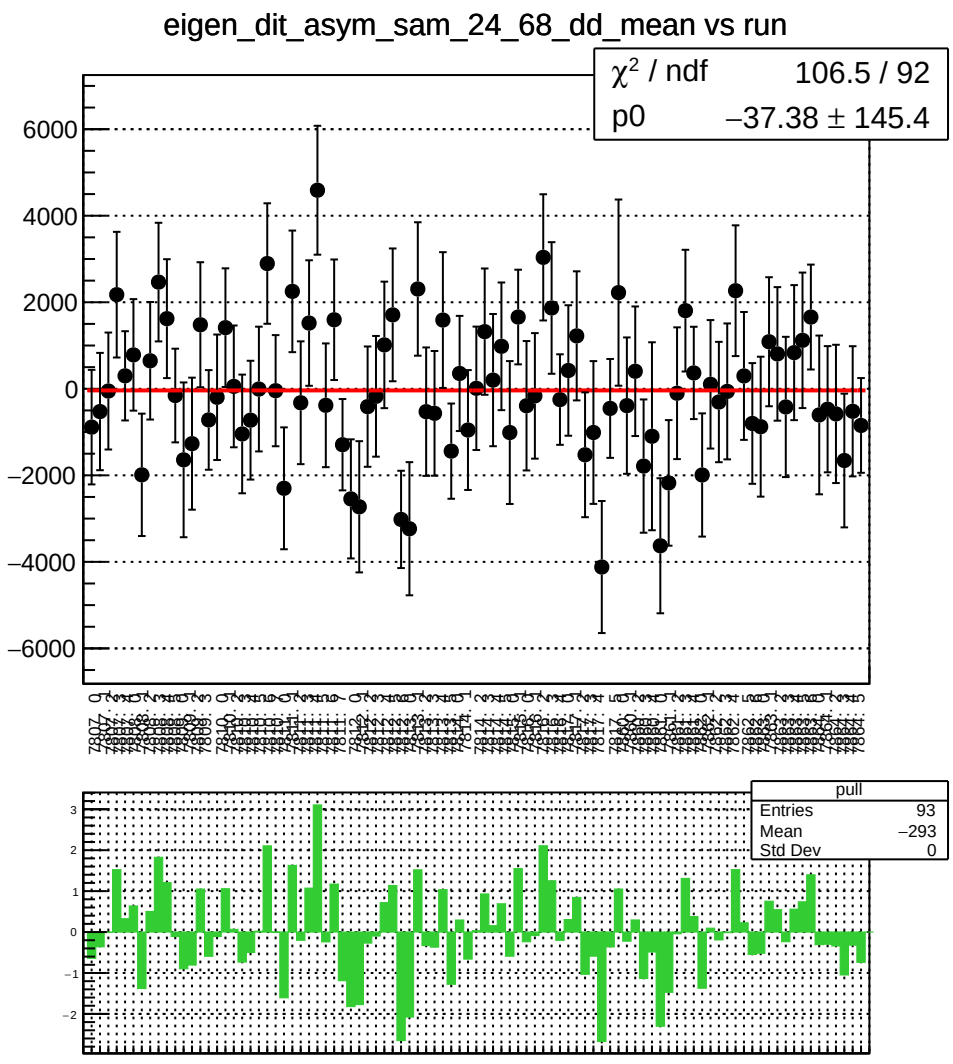

pull1D
Entries 93
Mean 0.007316
Std Dev 1.07
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

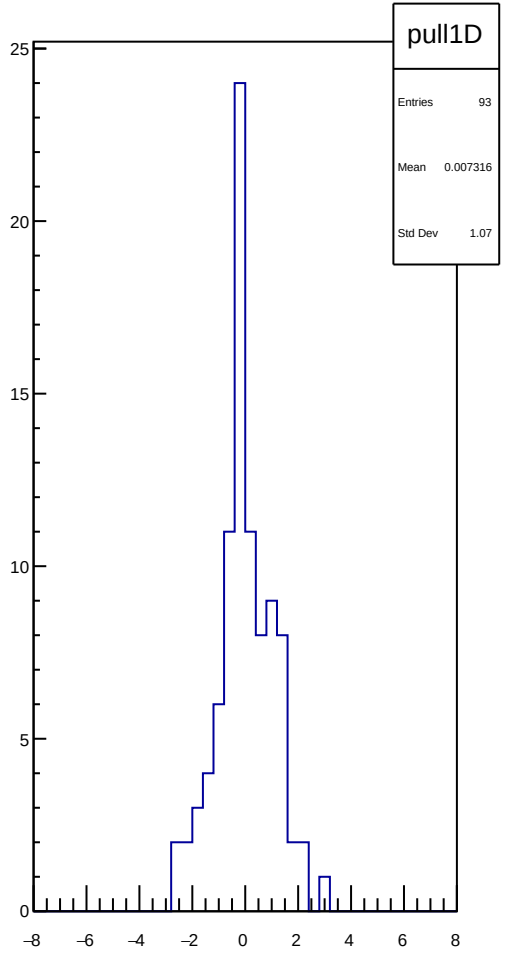

dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.469e+04 / 92
p0 139.4 ± 0.1028
280
260
240
220
200
180
160
140
120

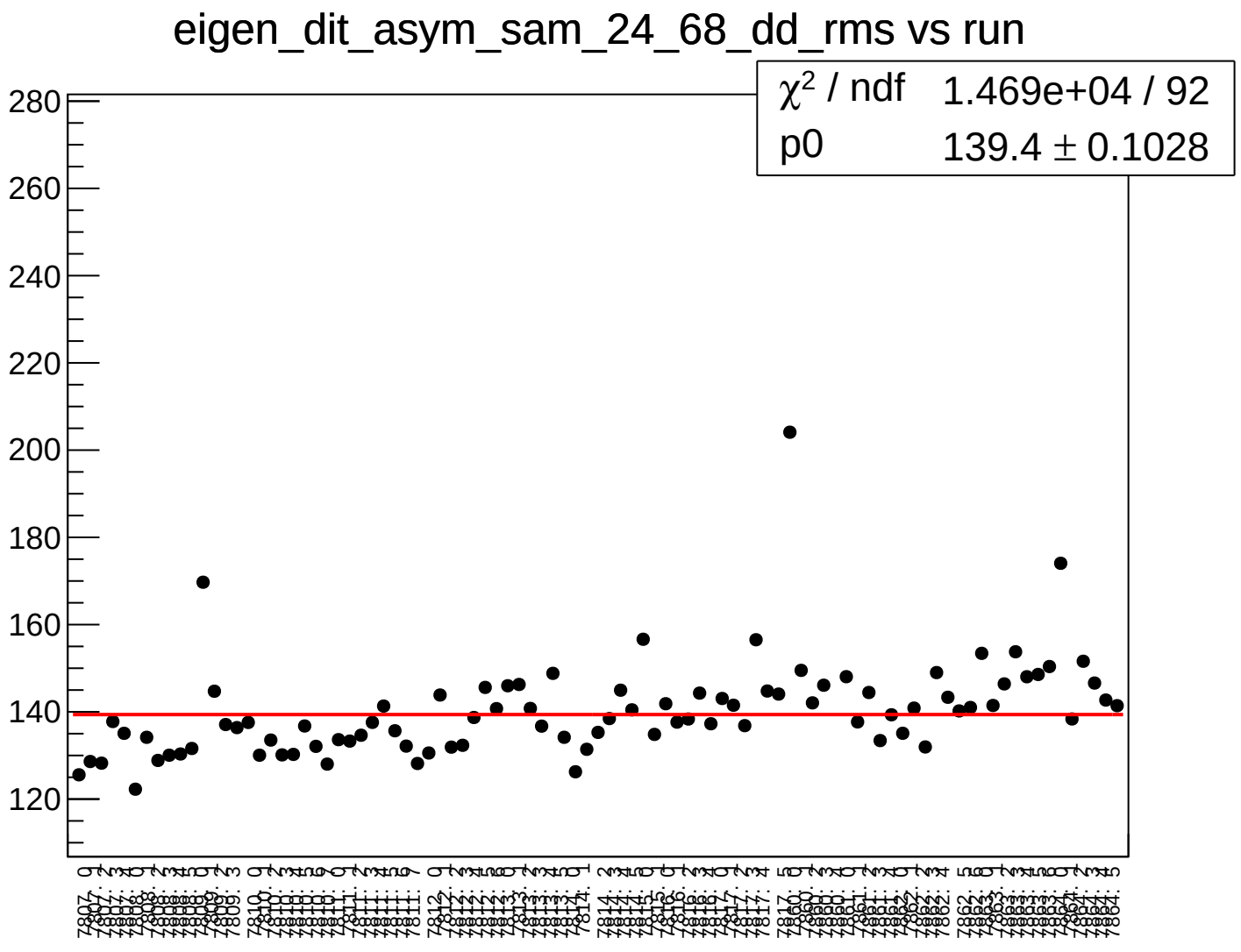

asym_sam_24_68_dd_dit_correction_mean vs run
×10^3
χ² / ndf 85.04 / 92
p0 −978.2 ± 3189
100
50
0
−50
−100
pull
Entries 93
Mean −21.8
Std Dev 28.83
2
1
0
−1
−2

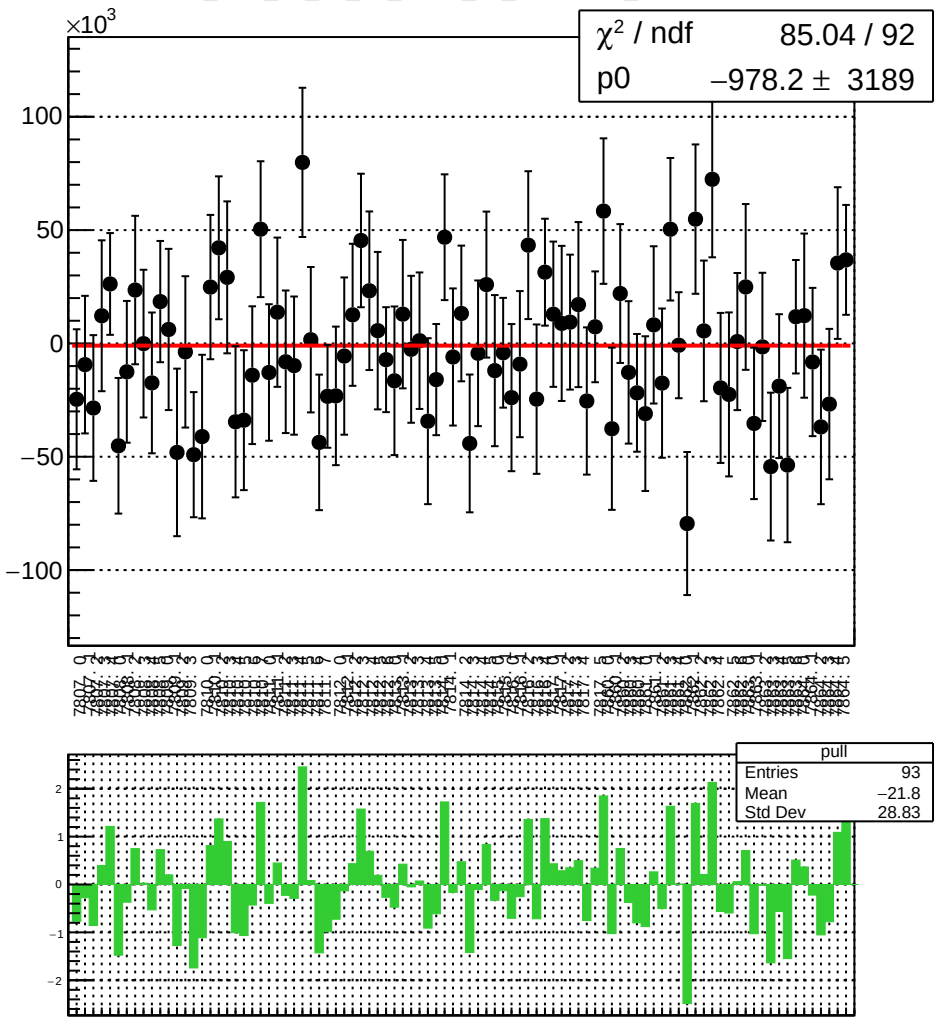

pull1D
Entries 93
Mean −0.0123
Std Dev 0.9562
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

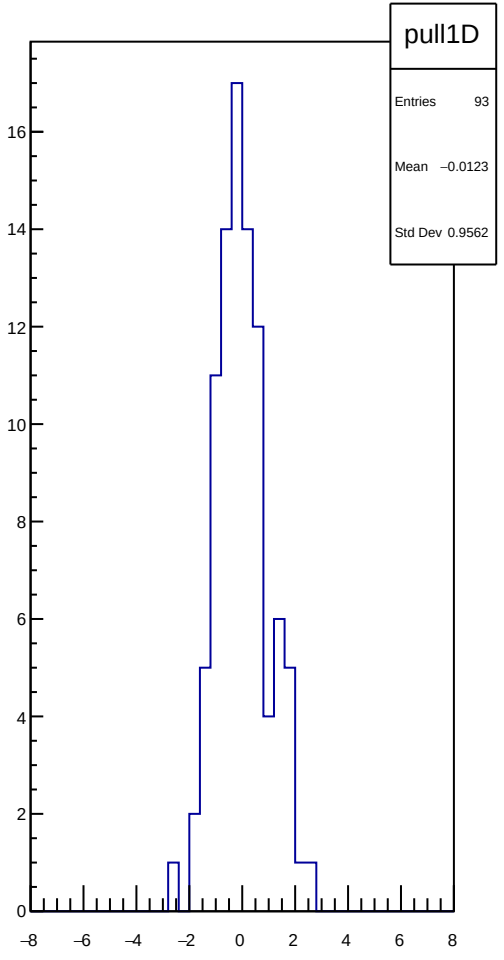

asym_sam_24_68_dd_dit_correction_rms vs run
χ² / ndf 5691 / 92
p0 3064 ± 2.255
3600
3400
3200
3000
2800
2600

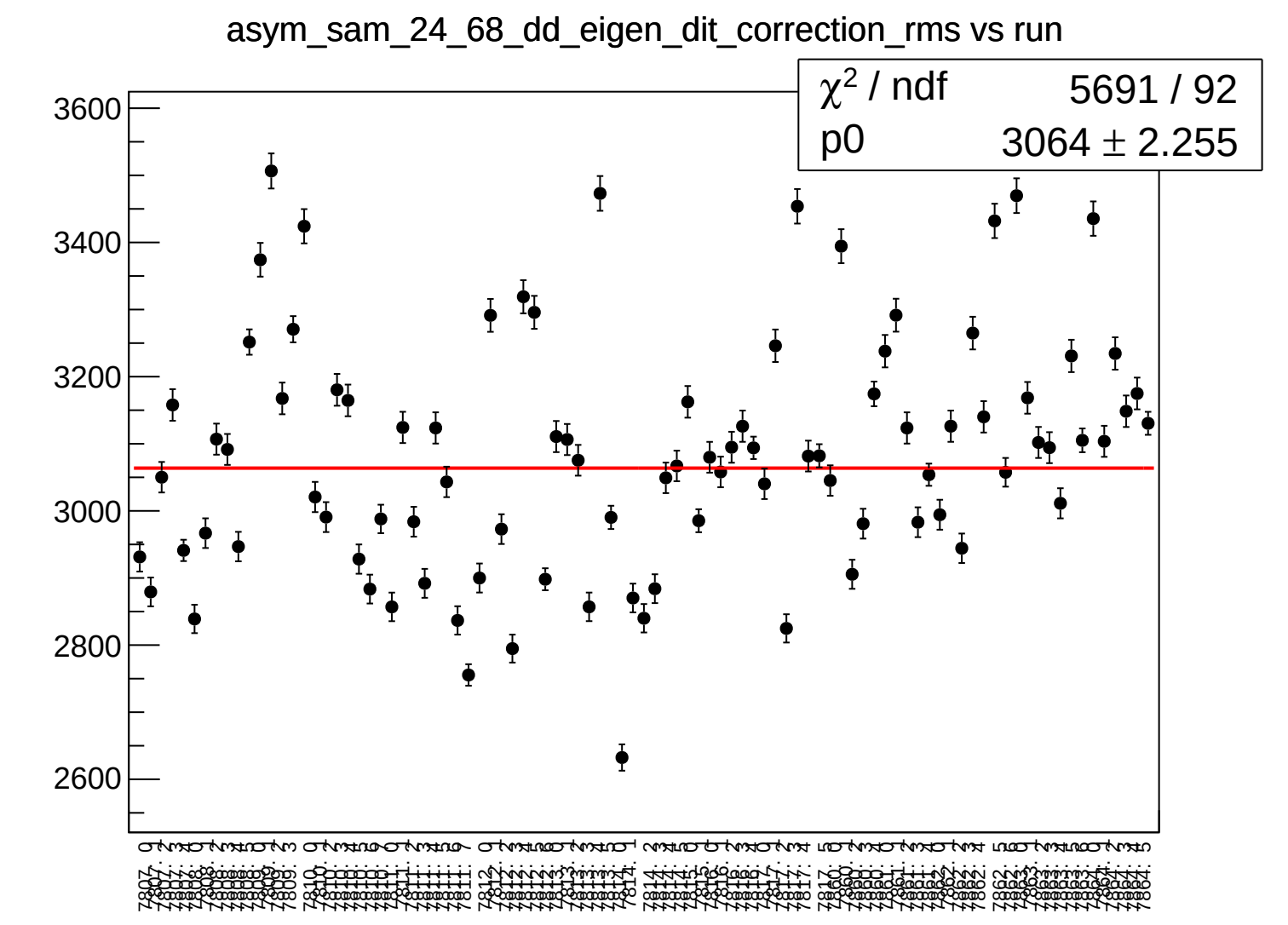

eigen_dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 106.5 / 92
p0 −37.38 ± 145.4
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean −293
Std Dev 0
3
2
1
0
−1
−2

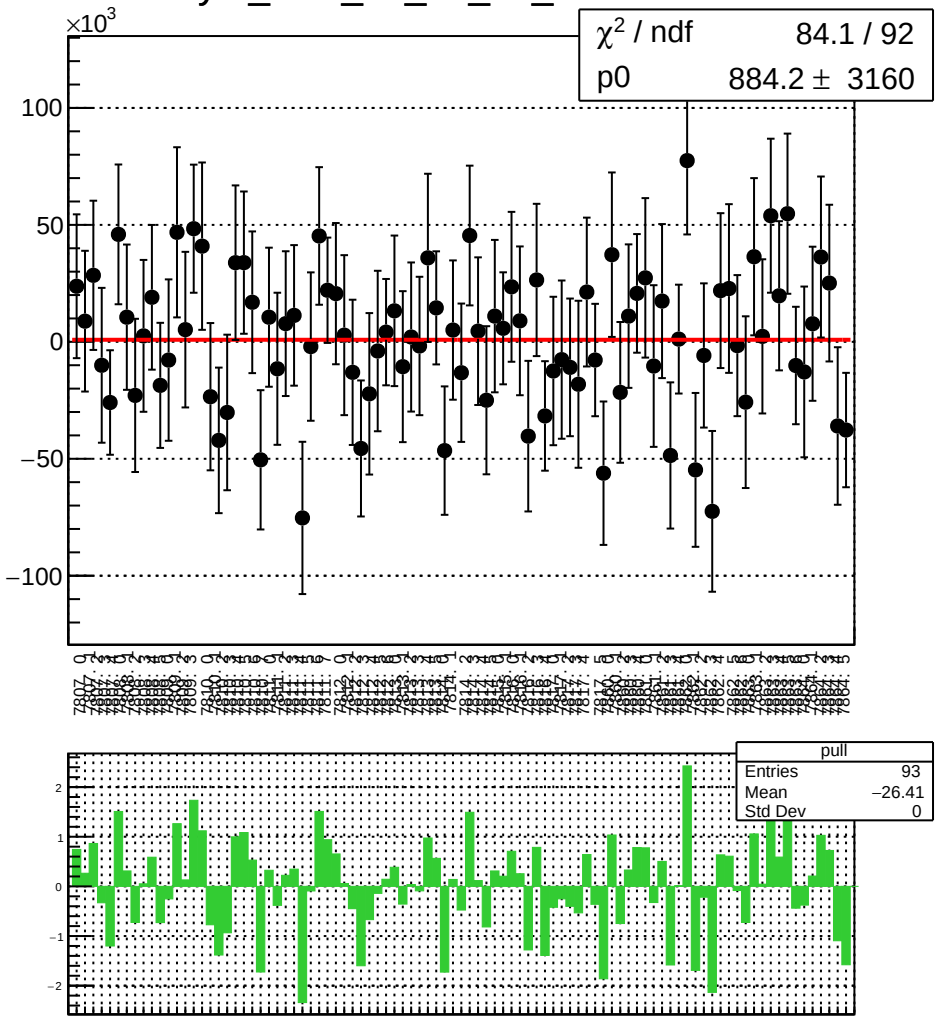

pull1D
Entries 93
Mean 0.007316
Std Dev 1.07
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

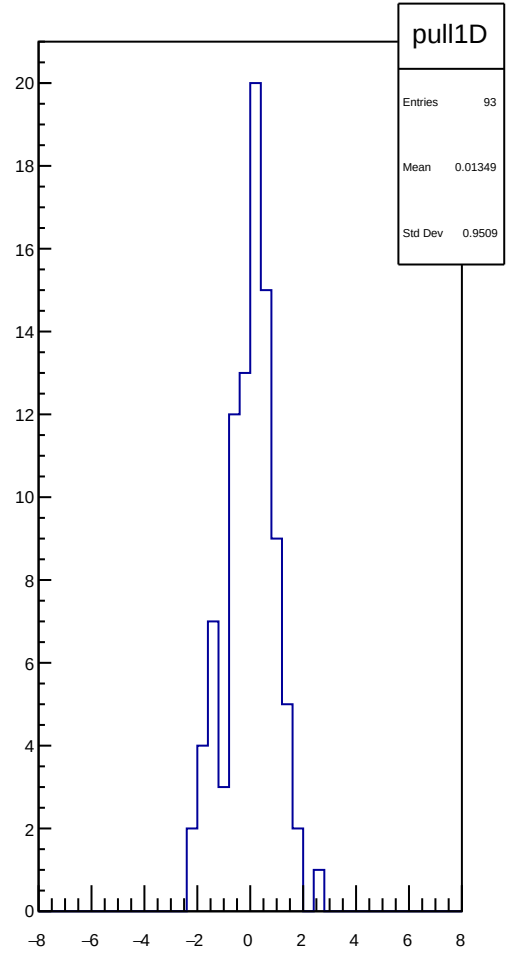

eigen_dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.469e+04 / 92
p0 139.4 ± 0.1028
280
260
240
220
200
180
160
140
120

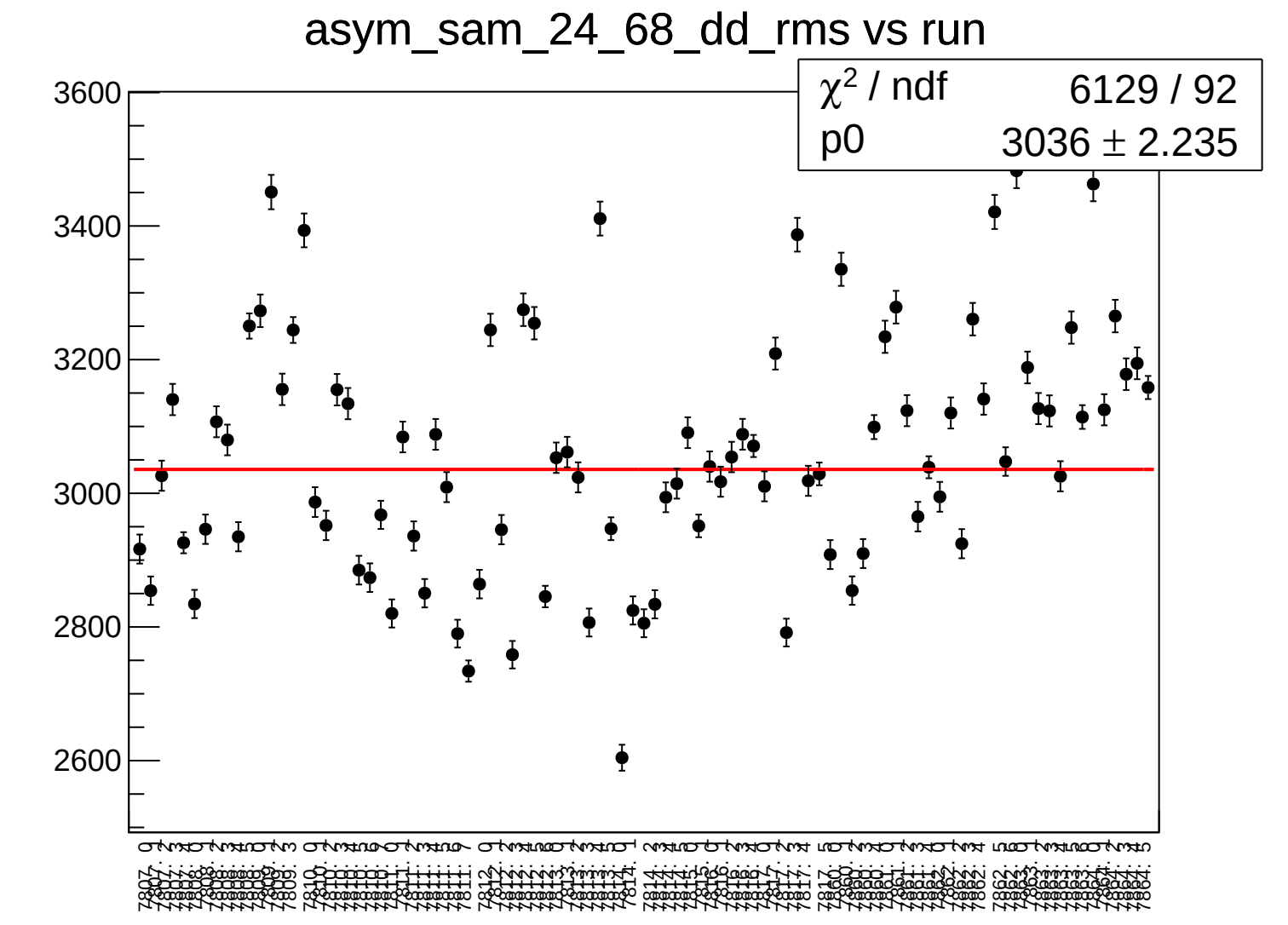

asym_sam_24_68_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 85.04 / 92
p0 −978.2 ± 3189
100
50
0
−50
−100
pull
Entries 93
Mean −21.8
Std Dev 28.83
2
1
0
−1
−2

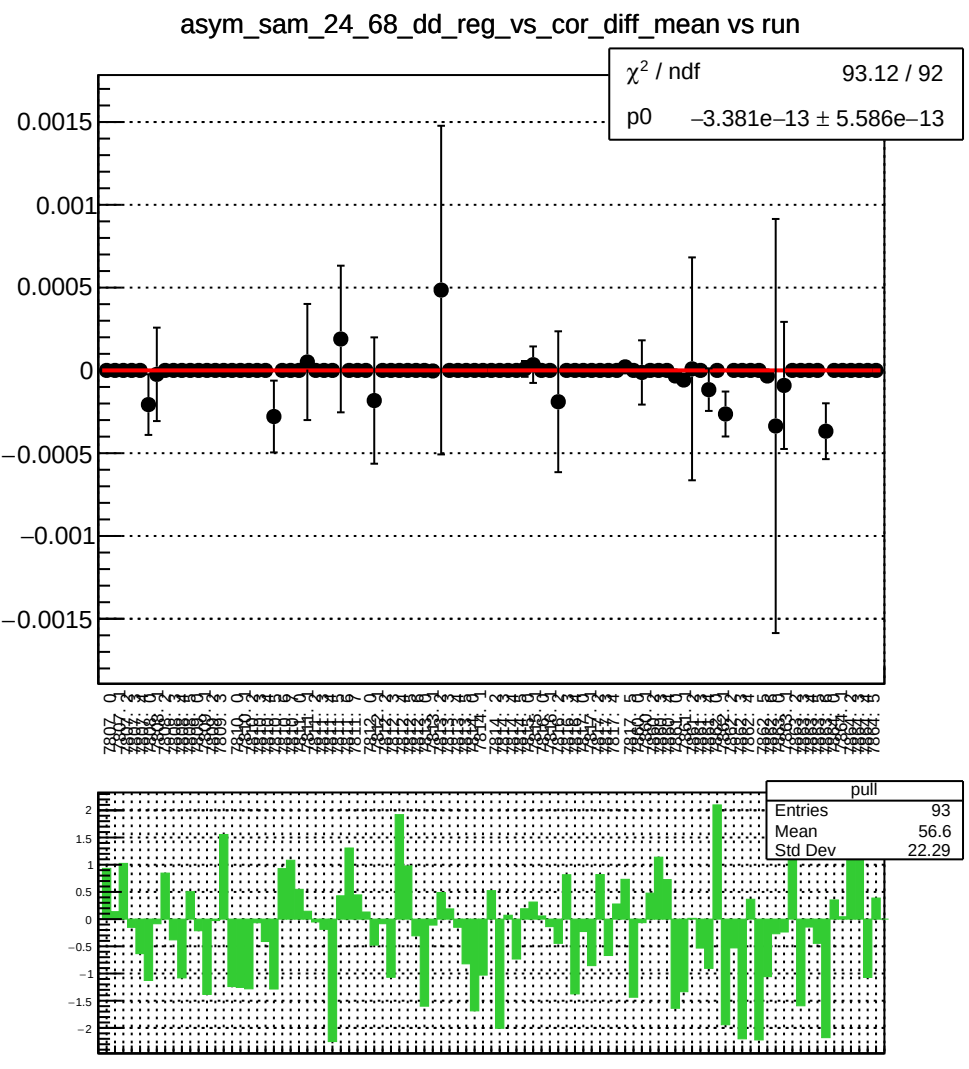

pull1D
Entries 93
Mean −0.0123
Std Dev 0.9562
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

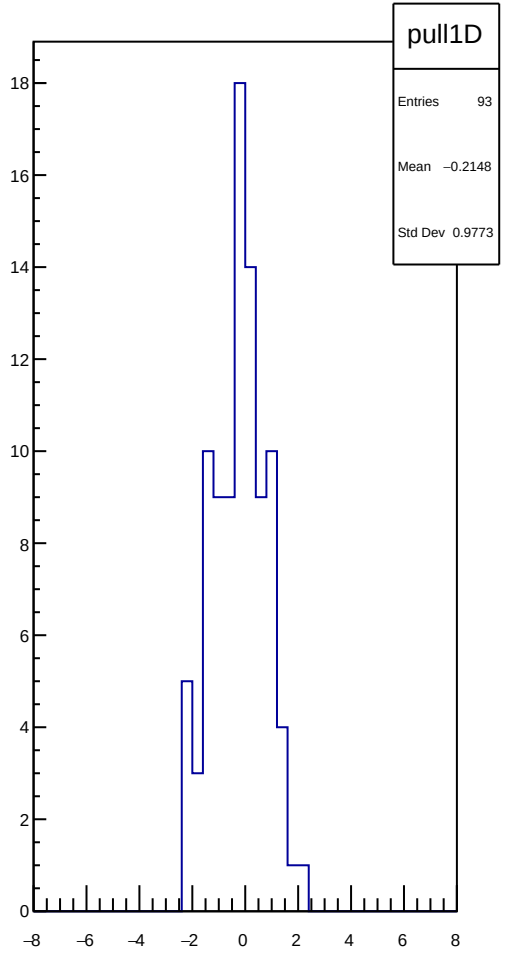

asym_sam_24_68_dd_eigen_dit_correction_rms vs run
χ² / ndf 5691 / 92
p0 3064 ± 2.255
3600
3400
3200
3000
2800
2600

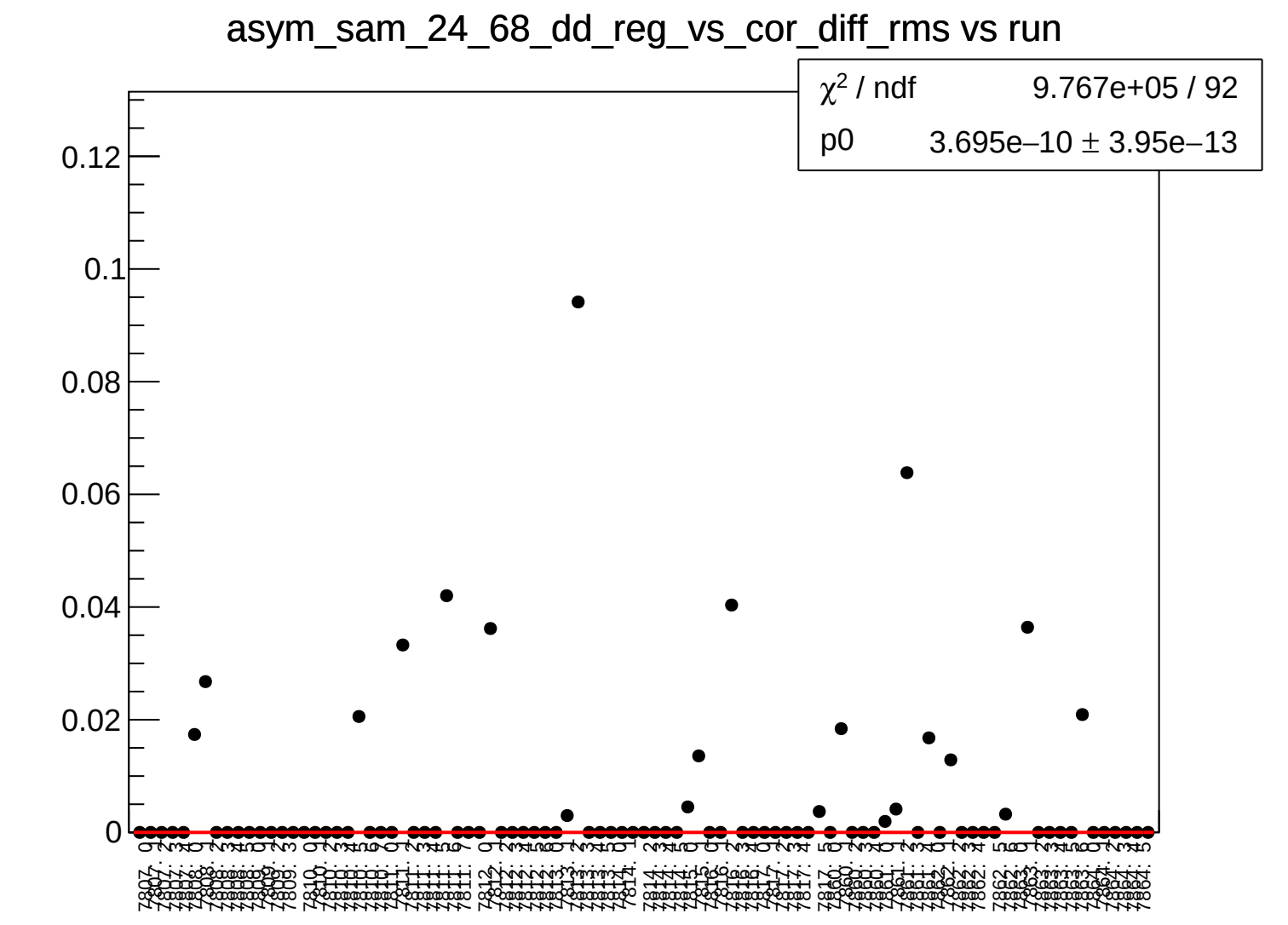

asym_sam_24_68_dd_mean vs run
×10^3
χ² / ndf 84.1 / 92
p0 884.2 ± 3160
100
50
0
−50
−100
pull
Entries 93
Mean −26.41
Std Dev 0
2
1
0
−1
−2

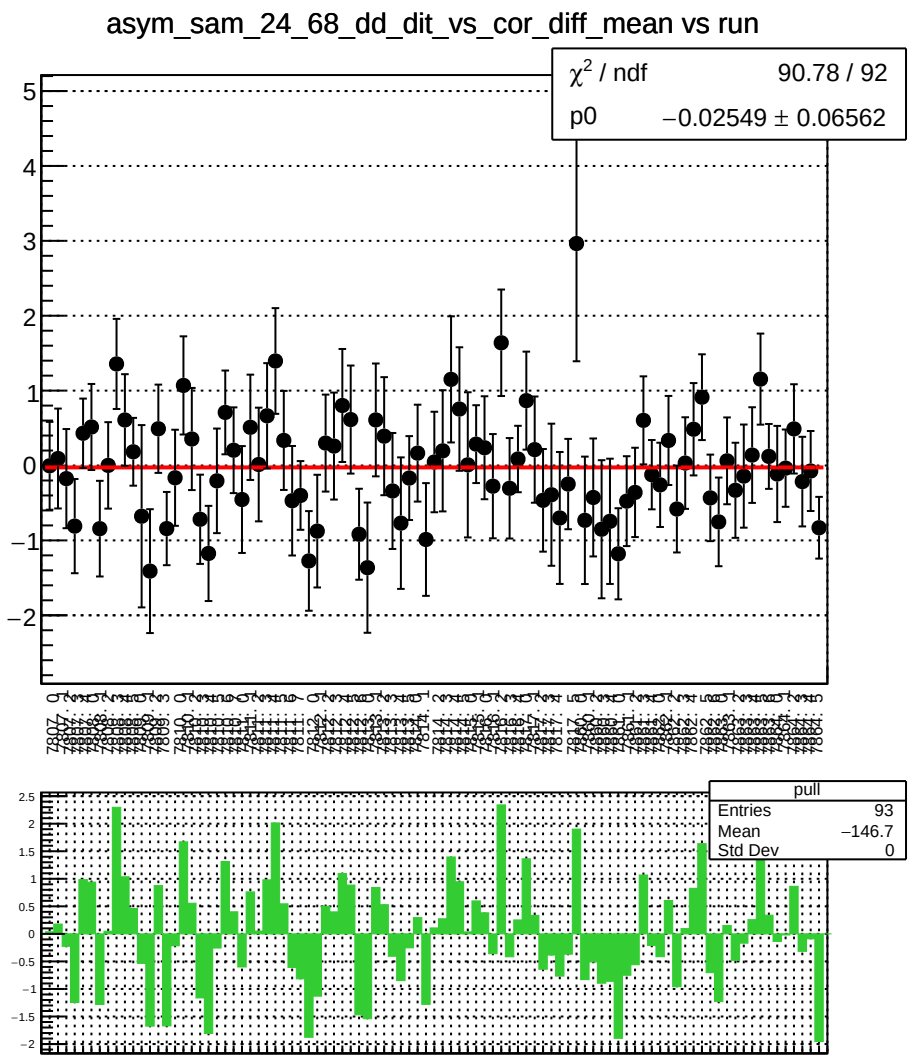

pull1D
Entries 93
Mean 0.01349
Std Dev 0.9509
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

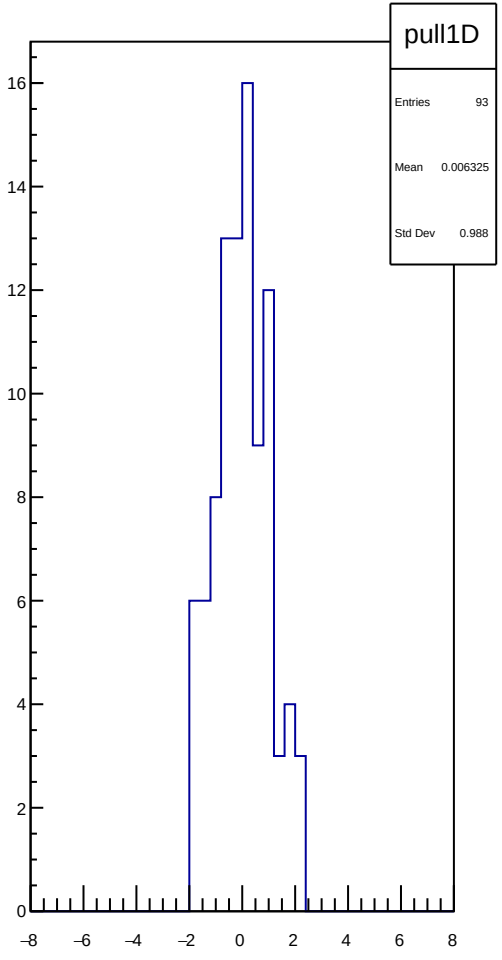

asym_sam_24_68_dd_rms vs run
χ^2 / ndf 6129 / 92
p0 3036 ± 2.235
3600
3400
3200
3000
2800
2600

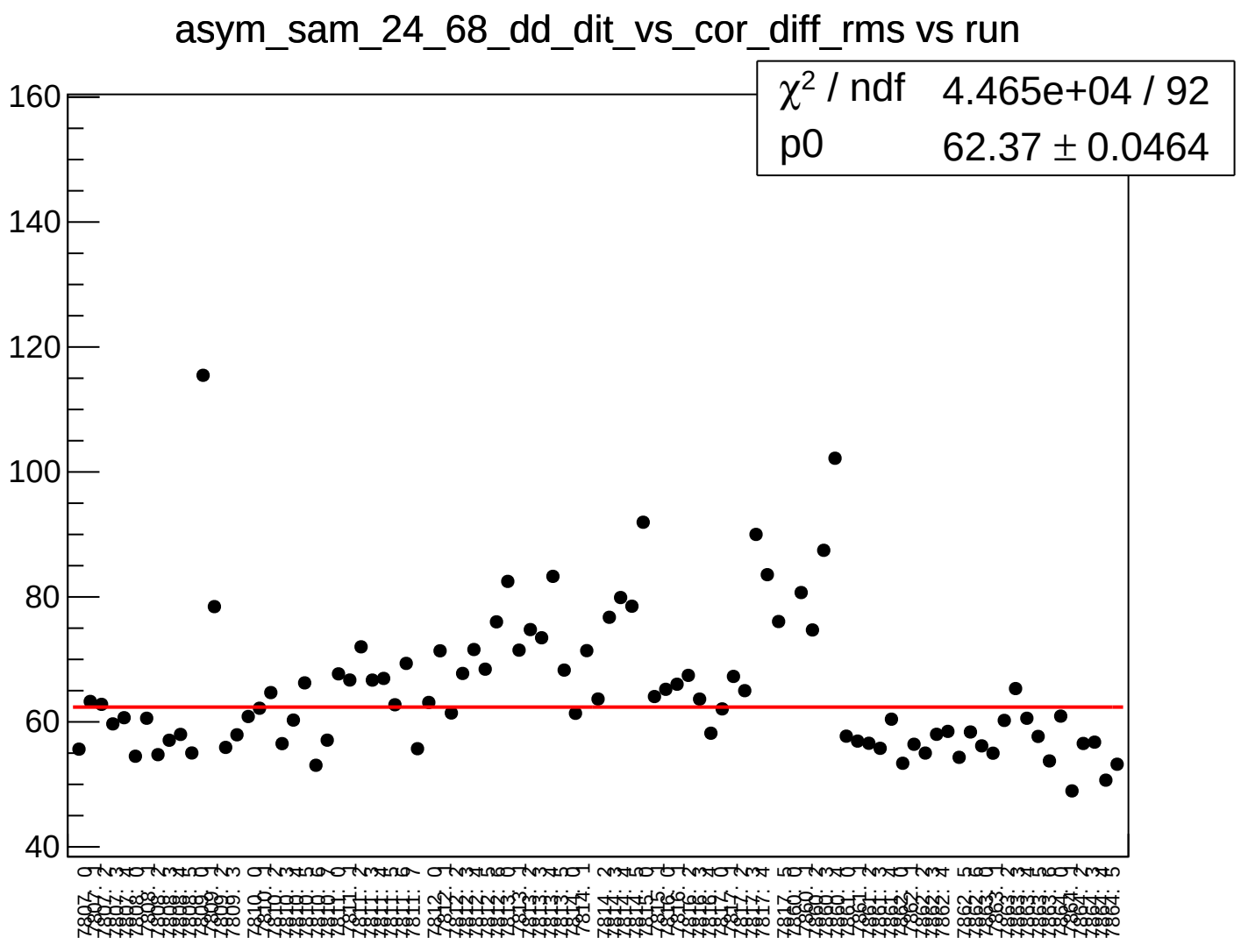

asym_sam_24_68_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 93.12 / 92
p0 −3.381e−13 ± 5.586e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 93
Mean 56.6
Std Dev 22.29
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

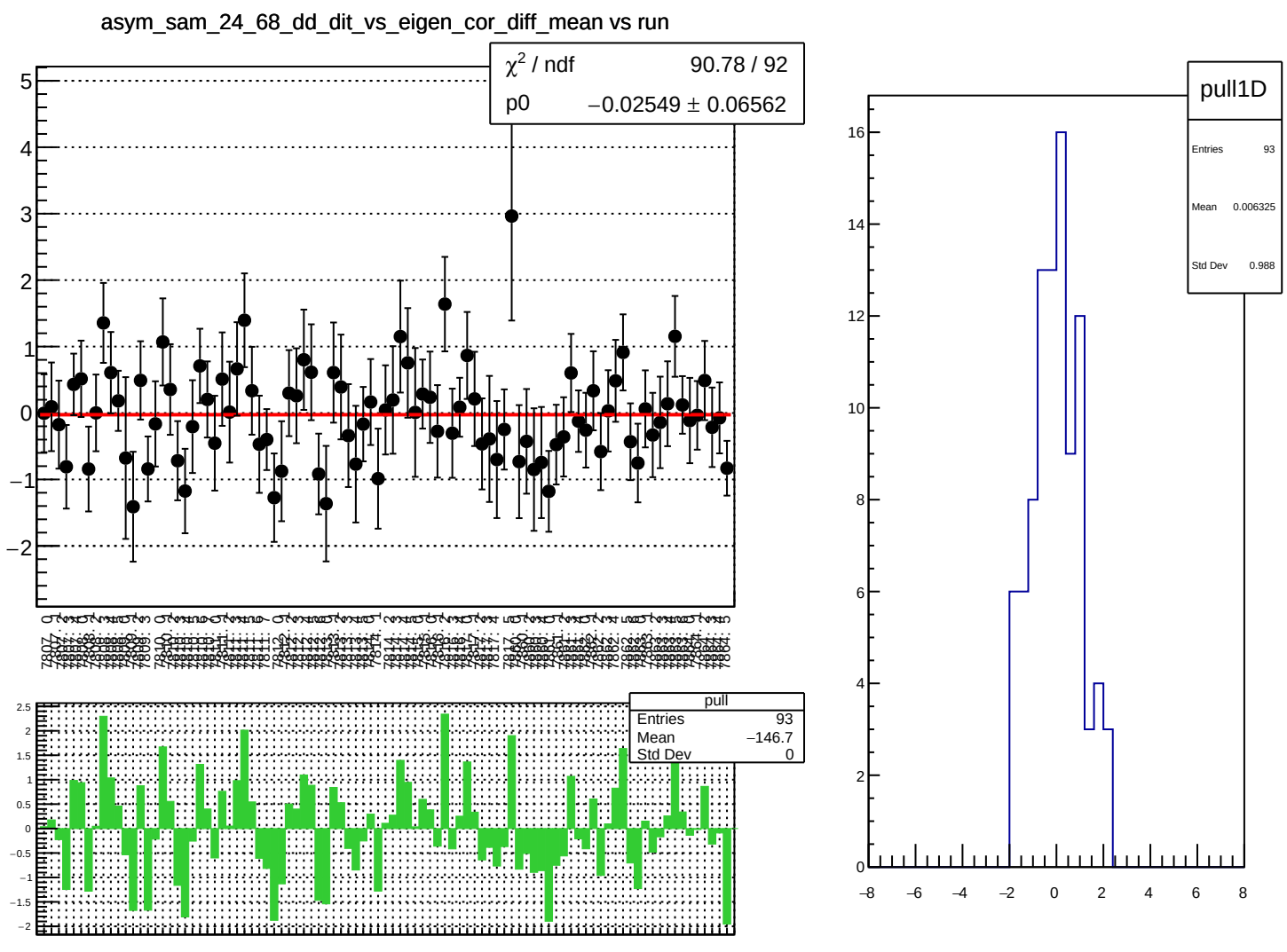

pull1D
Entries 93
Mean −0.2148
Std Dev 0.9773
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

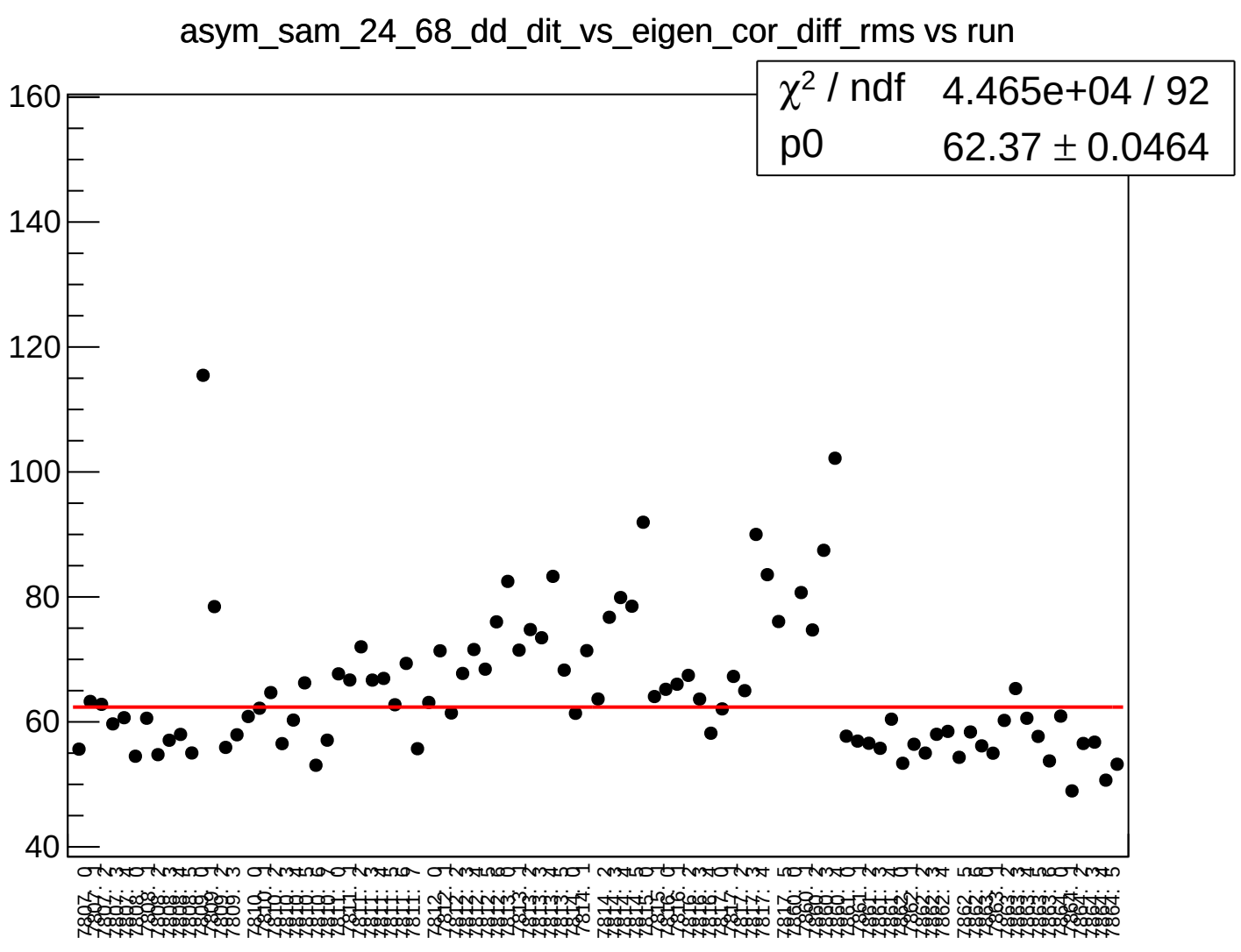

asym_sam_24_68_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.767e+05 / 92
p0 3.695e−10 ± 3.95e−13
0.12
0.1
0.08
0.06
0.04
0.02
0

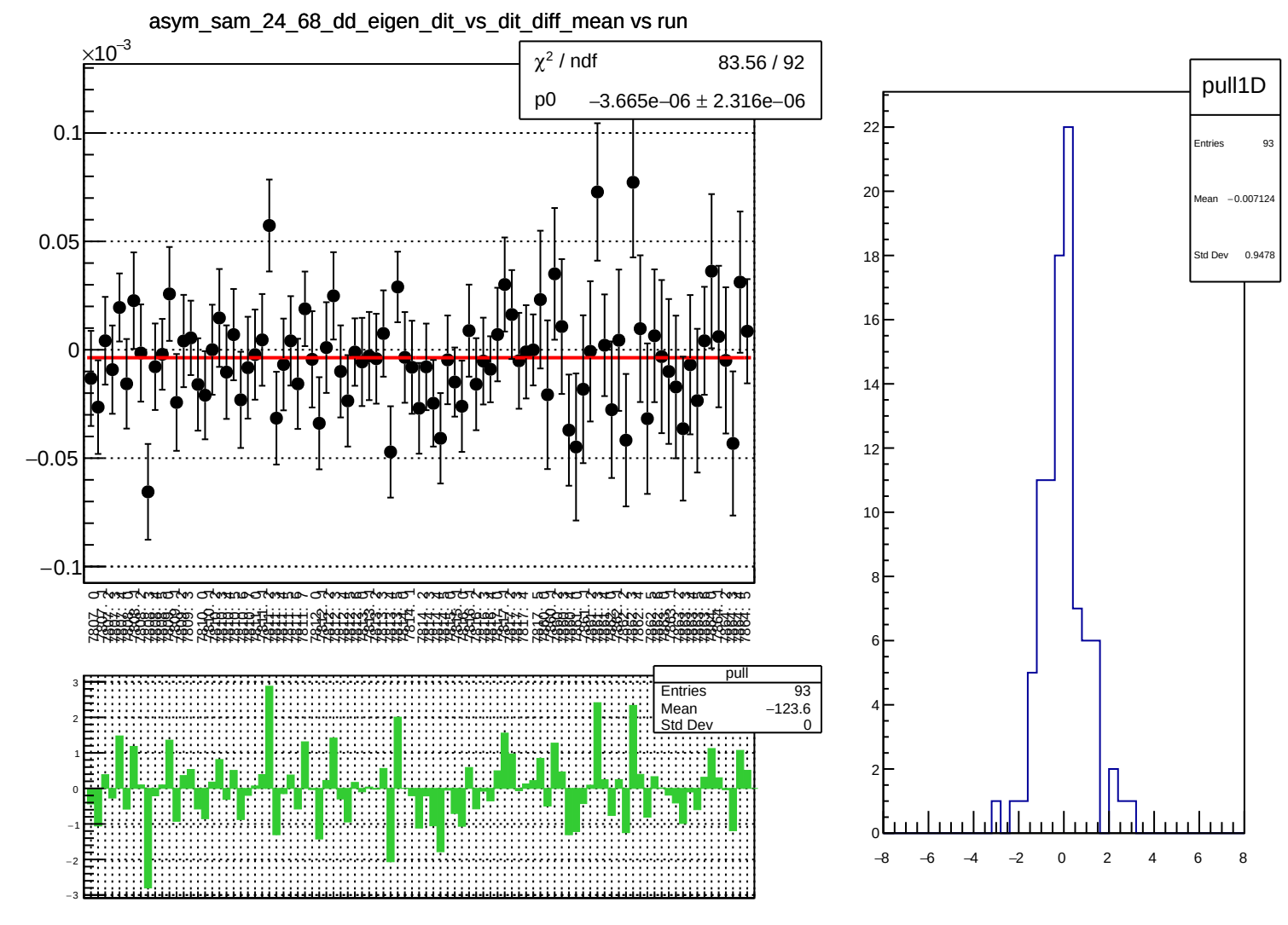

asym_sam_24_68_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 90.78 / 92
p0 −0.02549 ± 0.06562
pull
Entries 93
Mean −146.7
Std Dev 0

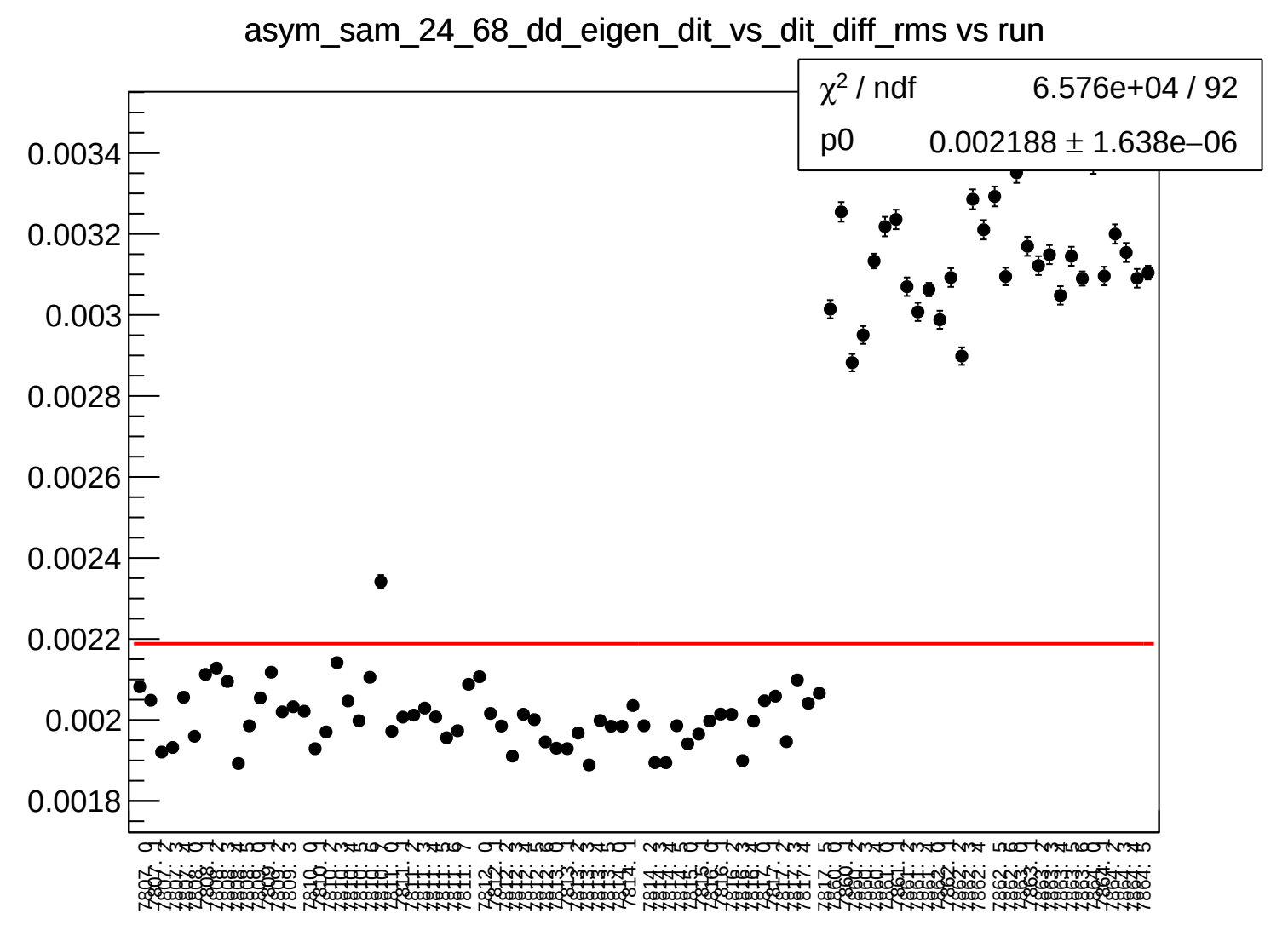

pull1D
Entries 93
Mean 0.006325
Std Dev 0.988

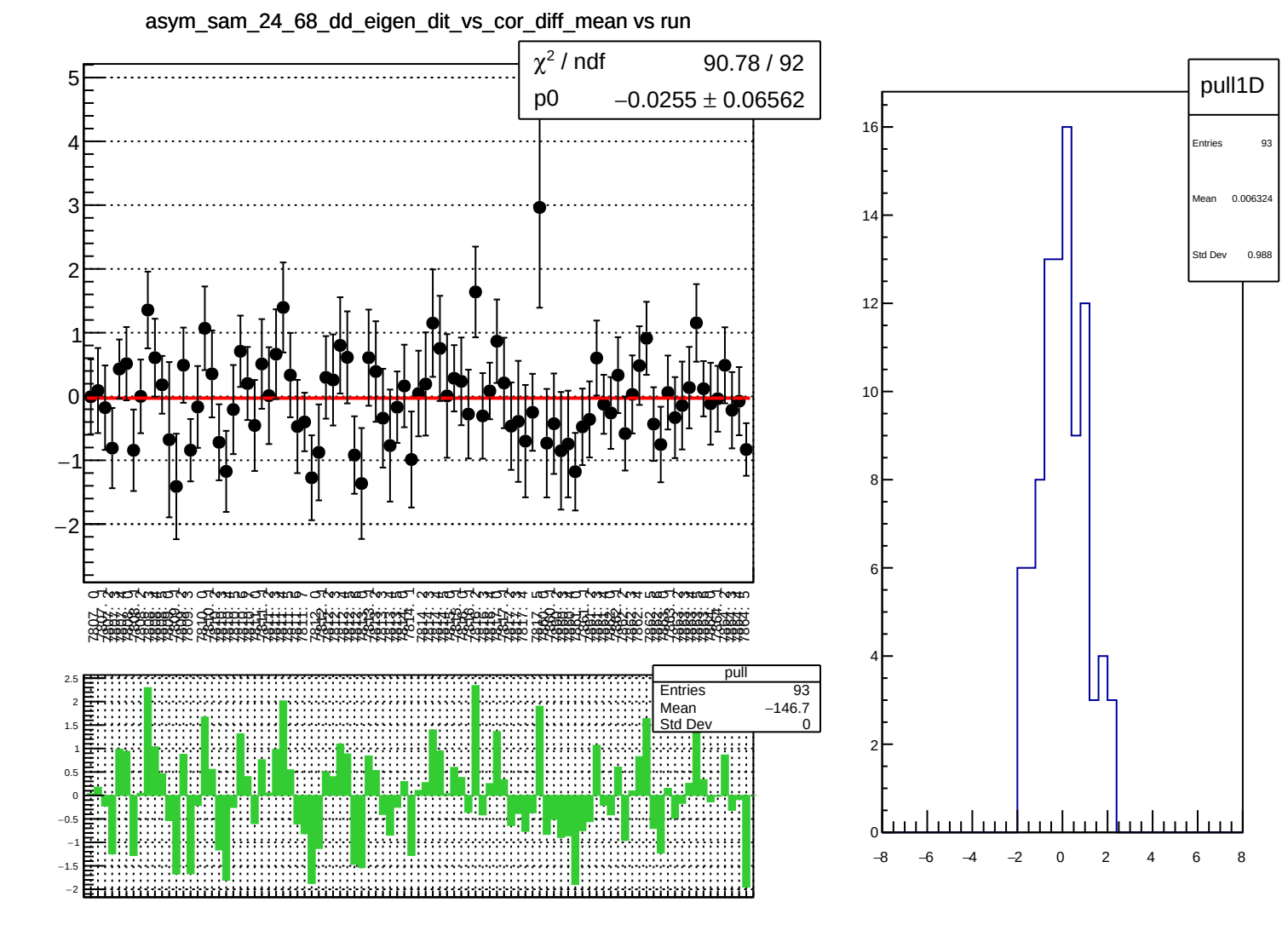

asym_sam_24_68_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.465e+04 / 92
p0 62.37 ± 0.0464
160
140
120
100
80
60
40

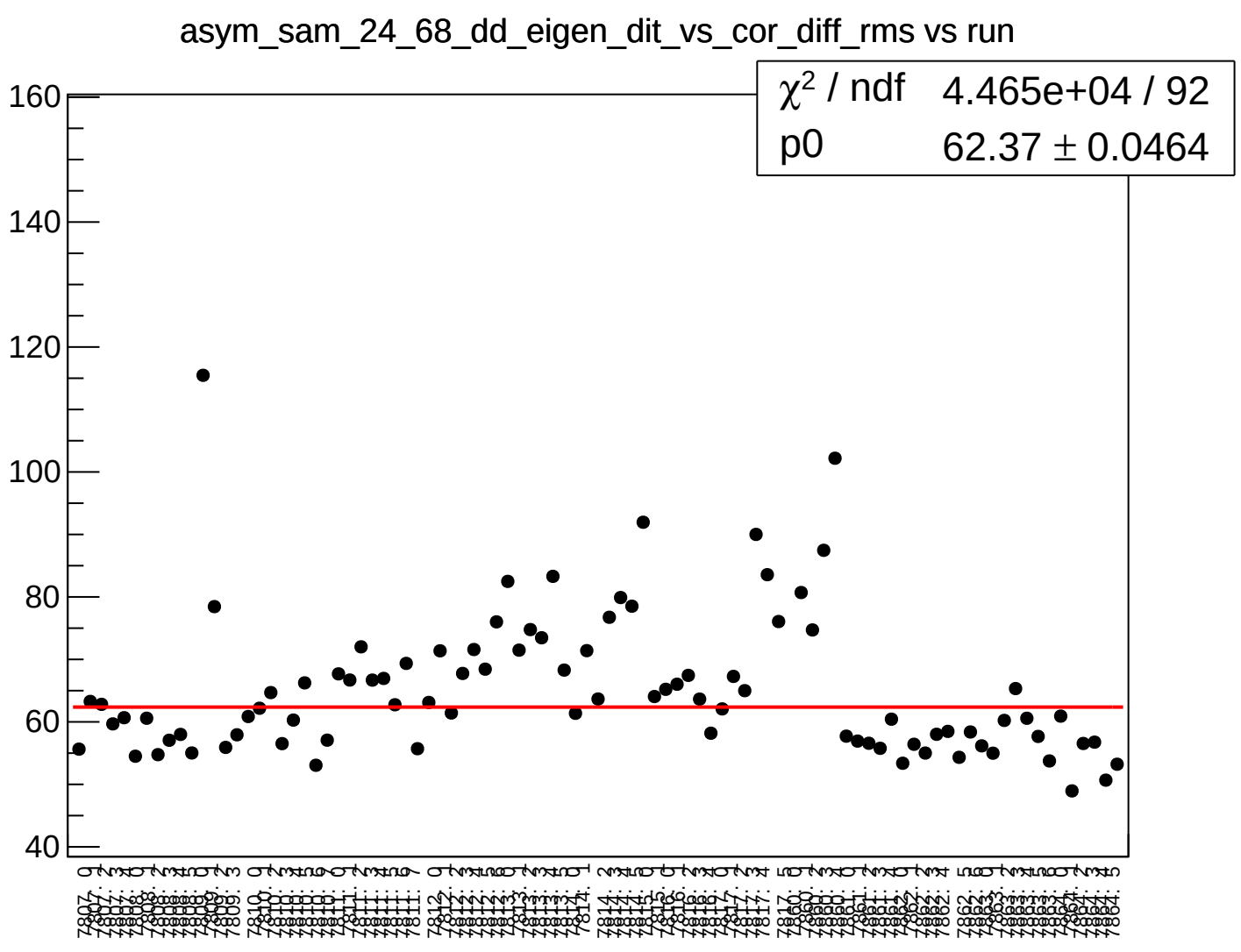

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.78 / 92
p0 −0.02549 ± 0.06562
pull
Entries 93
Mean −146.7
Std Dev 0
pull1D
Entries 93
Mean 0.006325
Std Dev 0.988

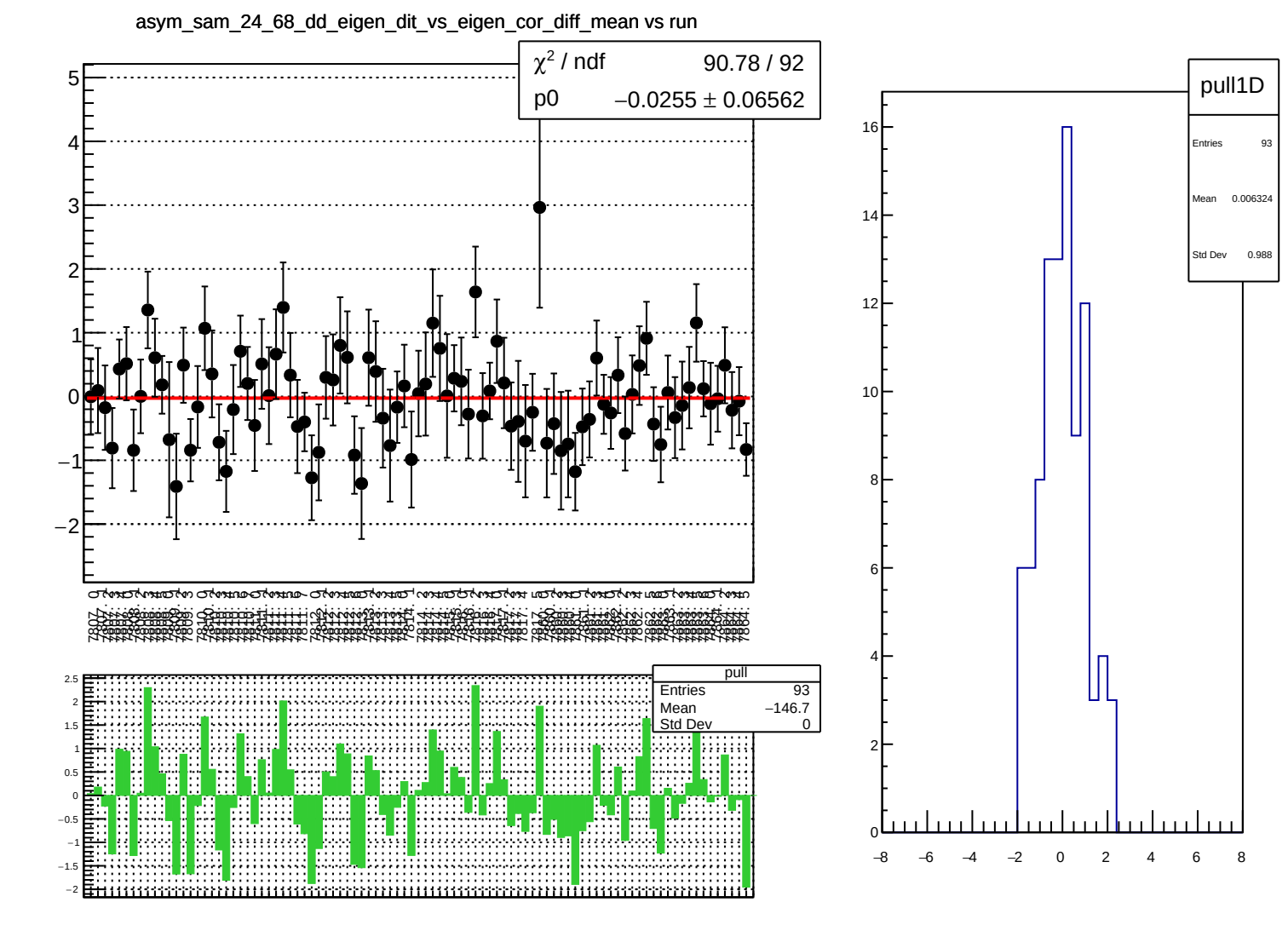

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.465e+04 / 92
p0 62.37 ± 0.0464
160
140
120
100
80
60
40

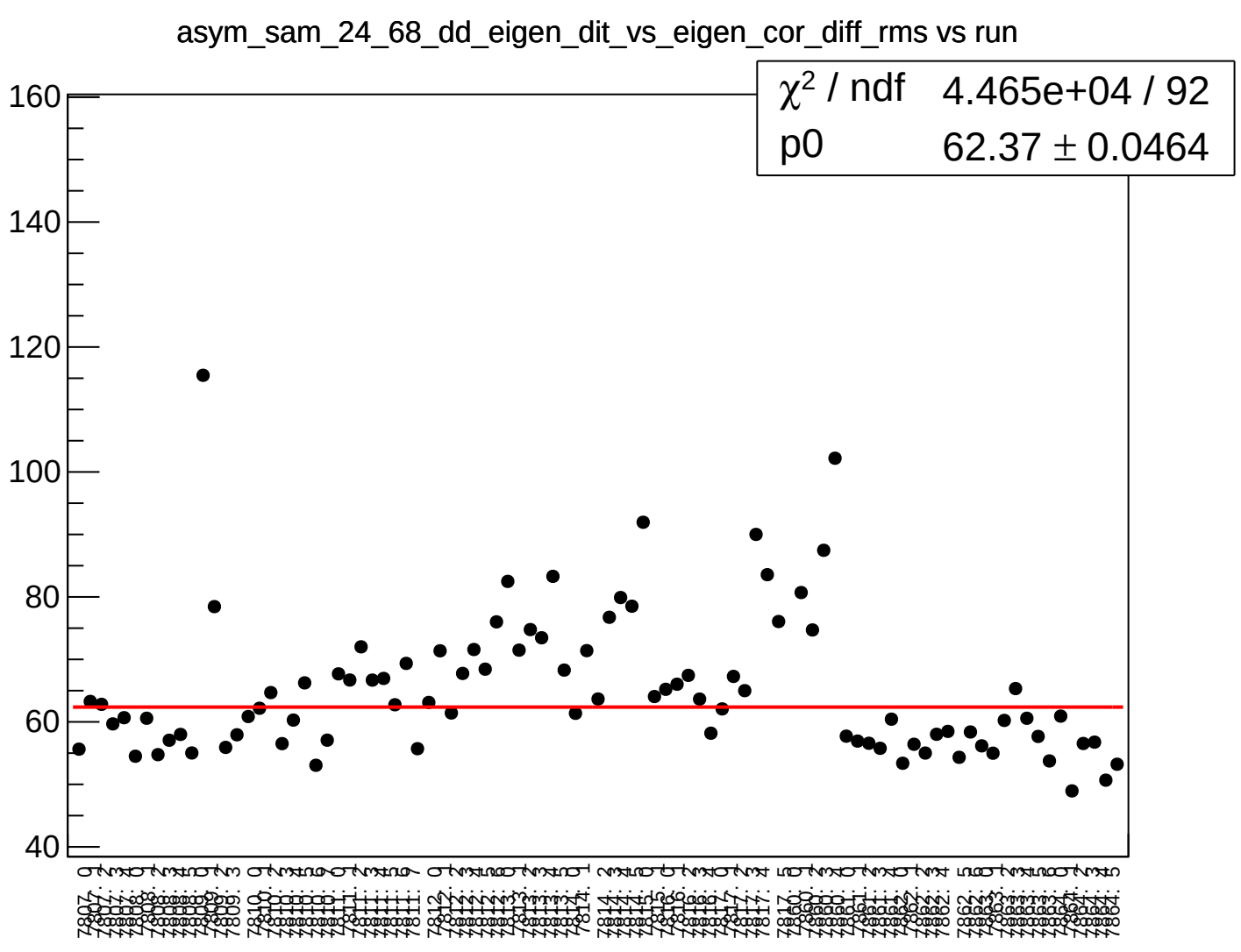

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 83.56 / 92
p0 −3.665e−06 ± 2.316e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 93
Mean −123.6
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.007124
Std Dev 0.9478
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

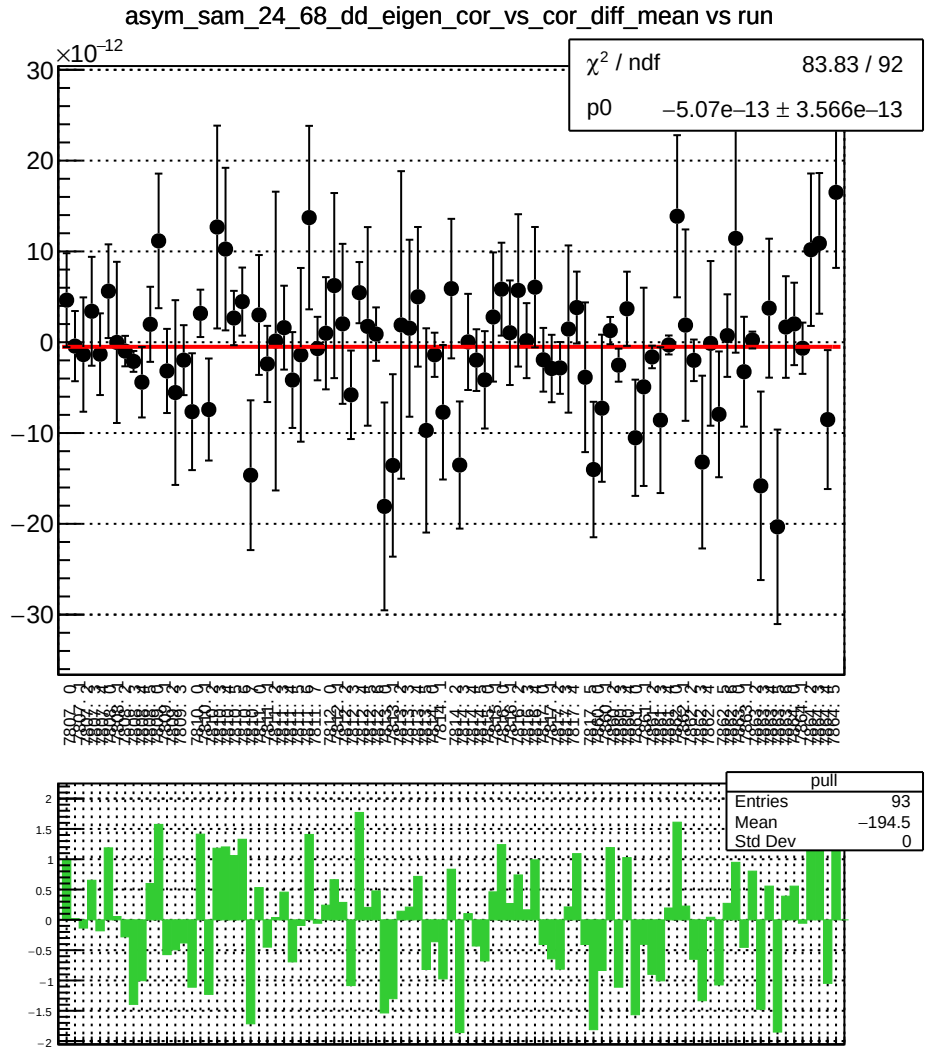

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.576e+04 / 92
p0 0.002188 ± 1.638e−06
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018

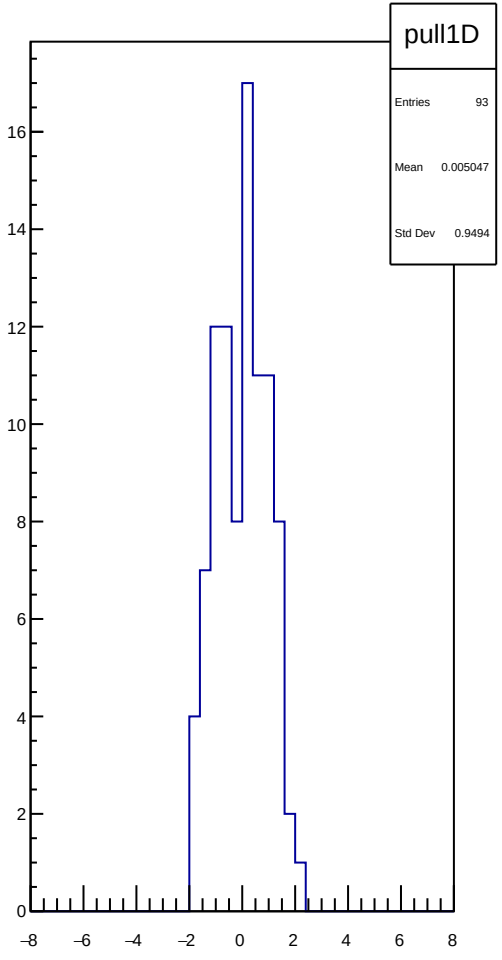

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.78 / 92
p0 −0.0255 ± 0.06562
pull
Entries 93
Mean −146.7
Std Dev 0
pull1D
Entries 93
Mean 0.006324
Std Dev 0.988

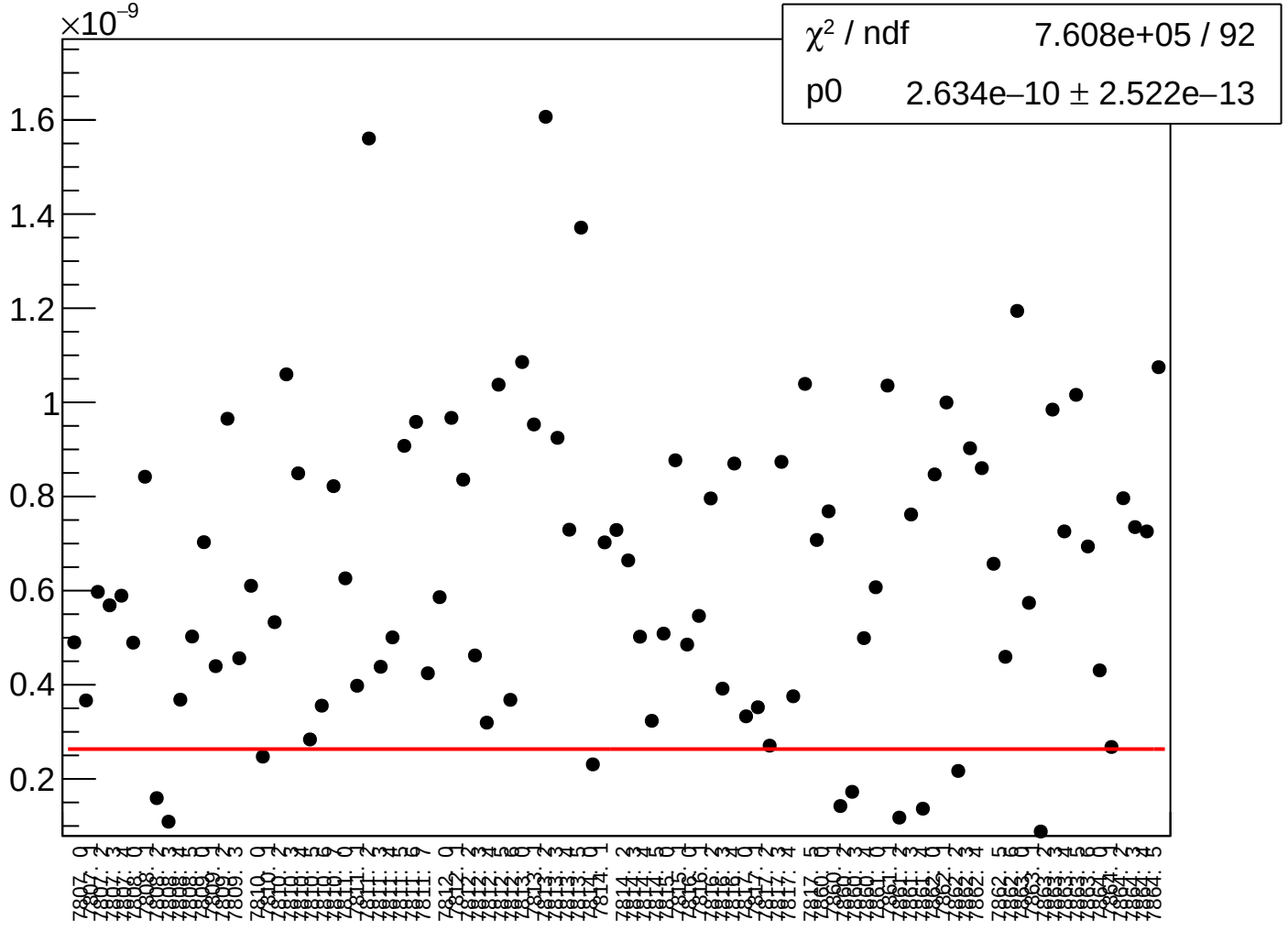

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.465e+04 / 92
p0 62.37 ± 0.0464
160
140
120
100
80
60
40

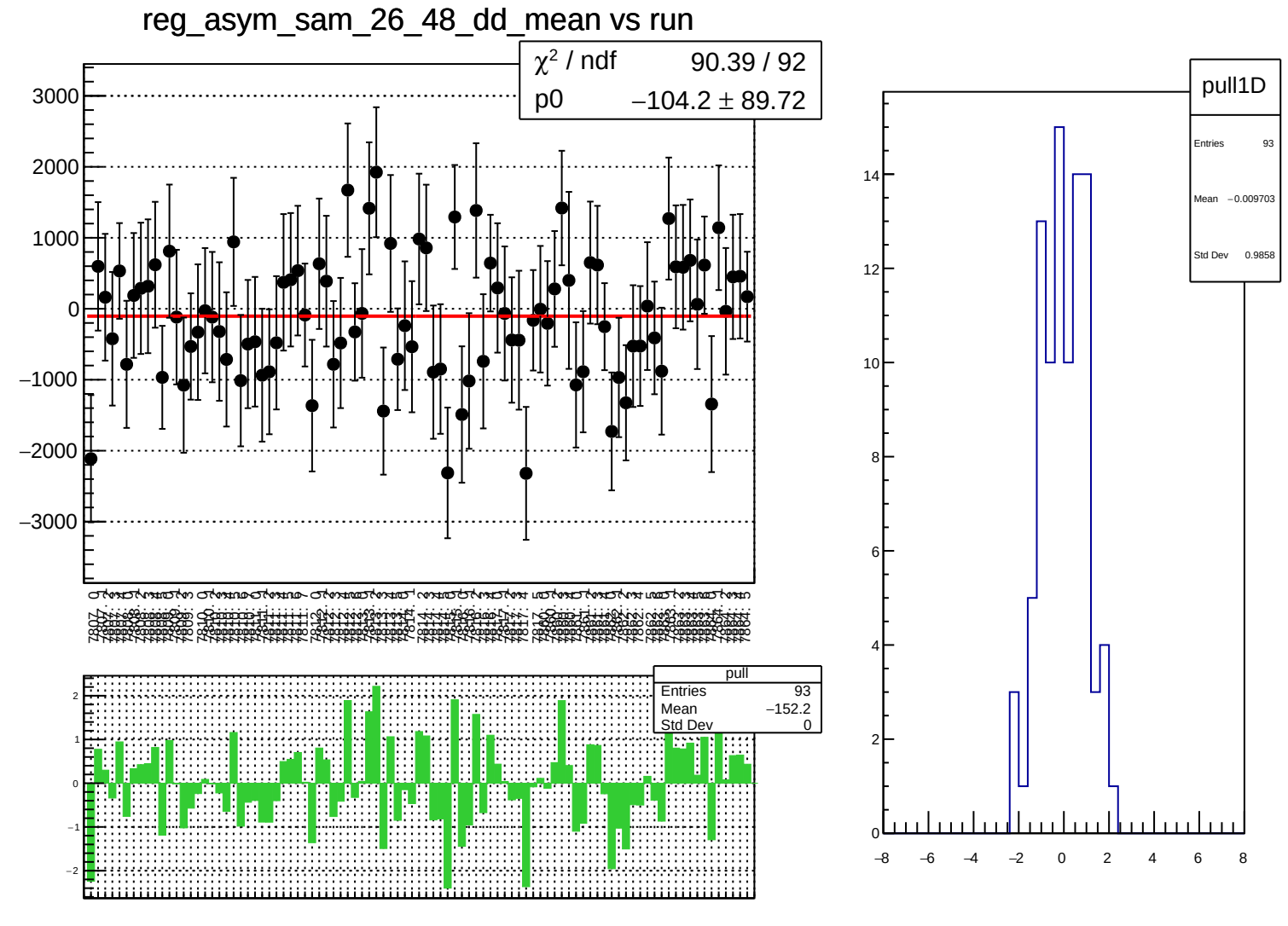

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.78 / 92
p0 −0.0255 ± 0.06562
pull
Entries 93
Mean −146.7
Std Dev 0
pull1D
Entries 93
Mean 0.006324
Std Dev 0.988

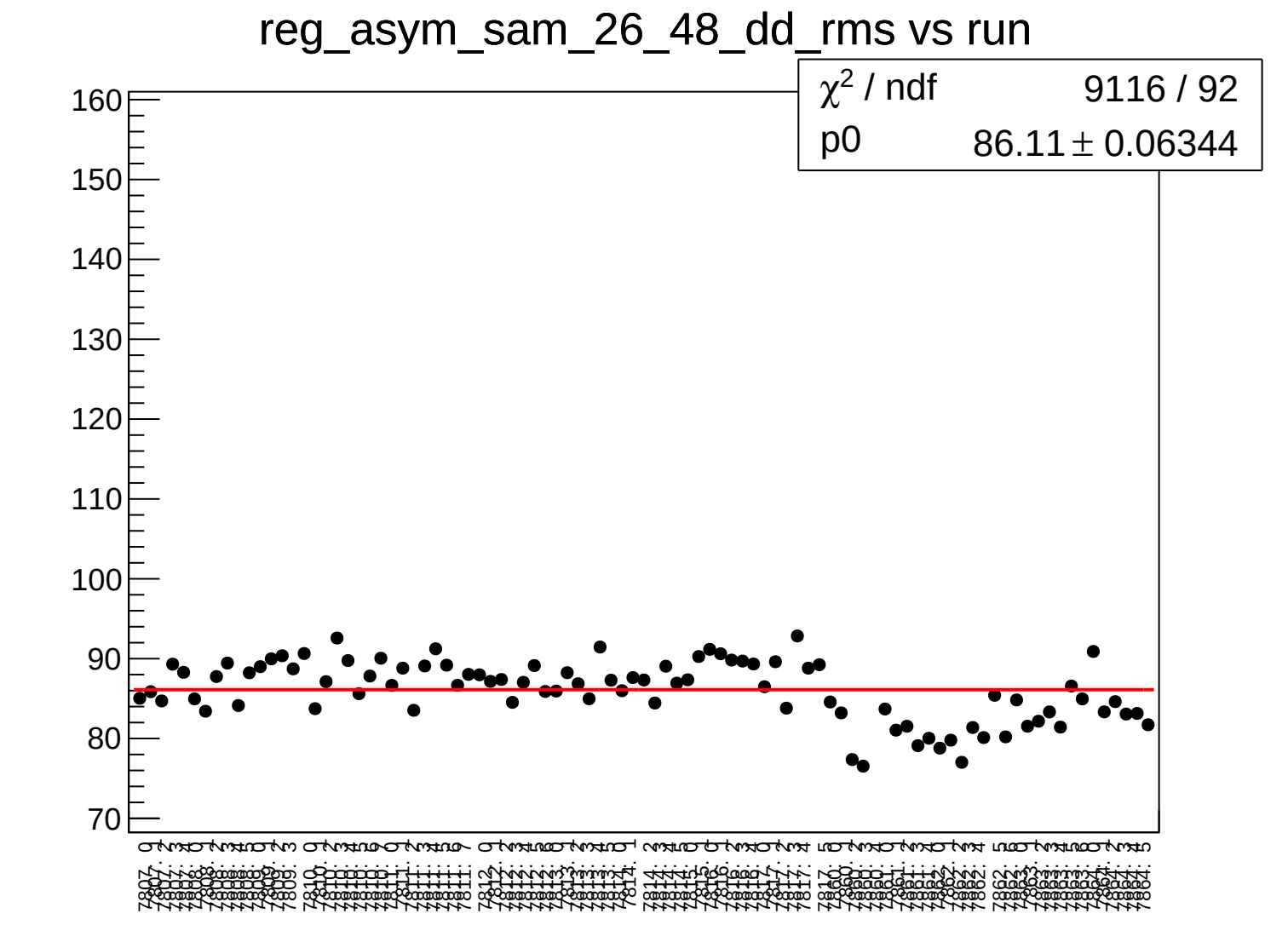

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.465e+04 / 92
p0 62.37 ± 0.0464
160
140
120
100
80
60
40

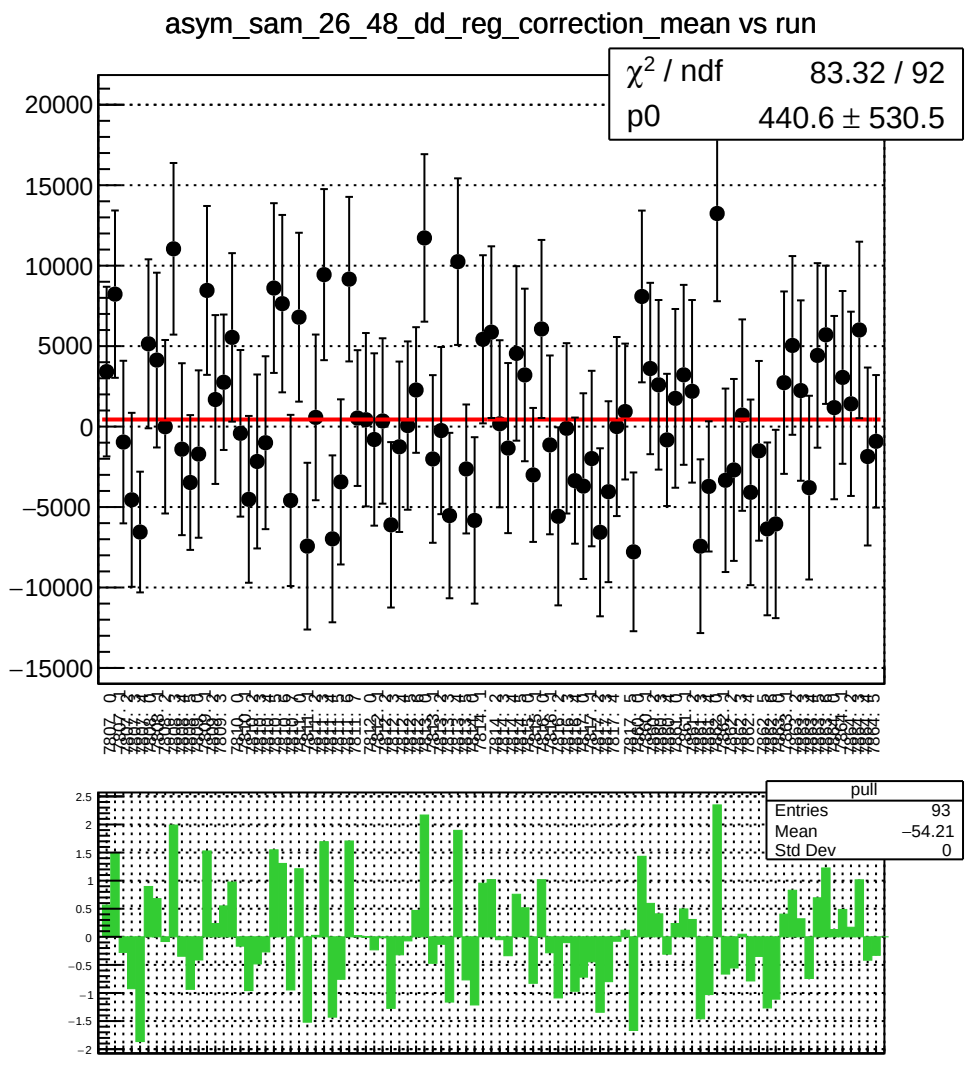

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.83 / 92
p0 −5.07e−13 ± 3.566e−13
pull
Entries 93
Mean −194.5
Std Dev 0

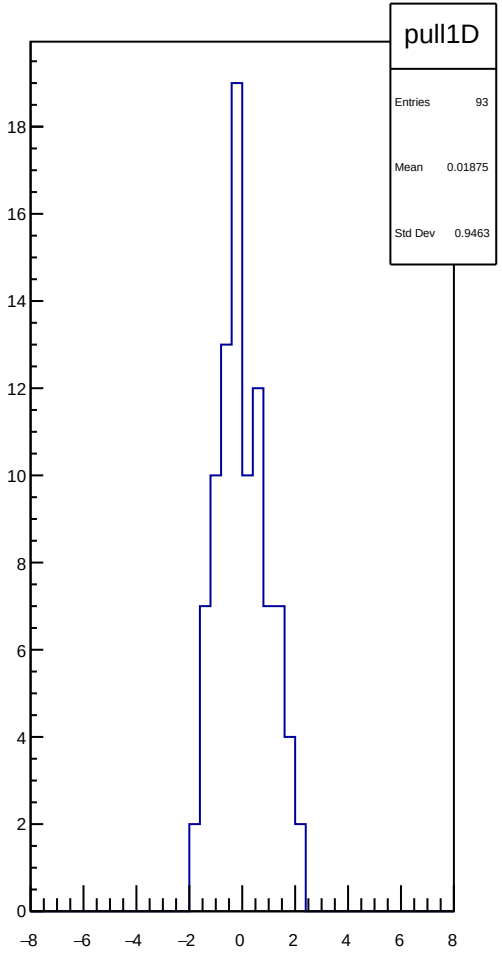

pull1D
Entries 93
Mean 0.005047
Std Dev 0.9494

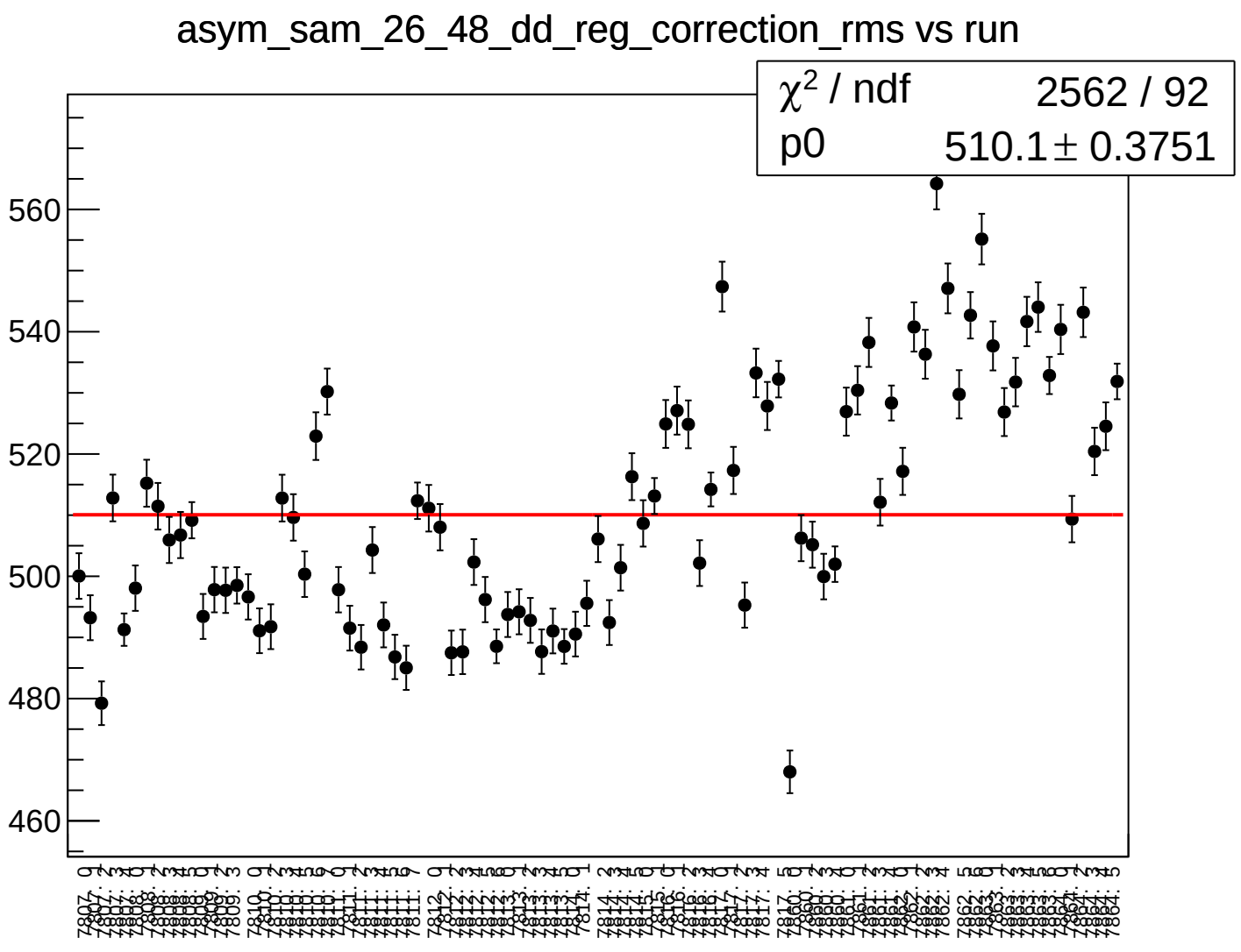

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.608e+05 / 92
p0 2.634e−10 ± 2.522e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

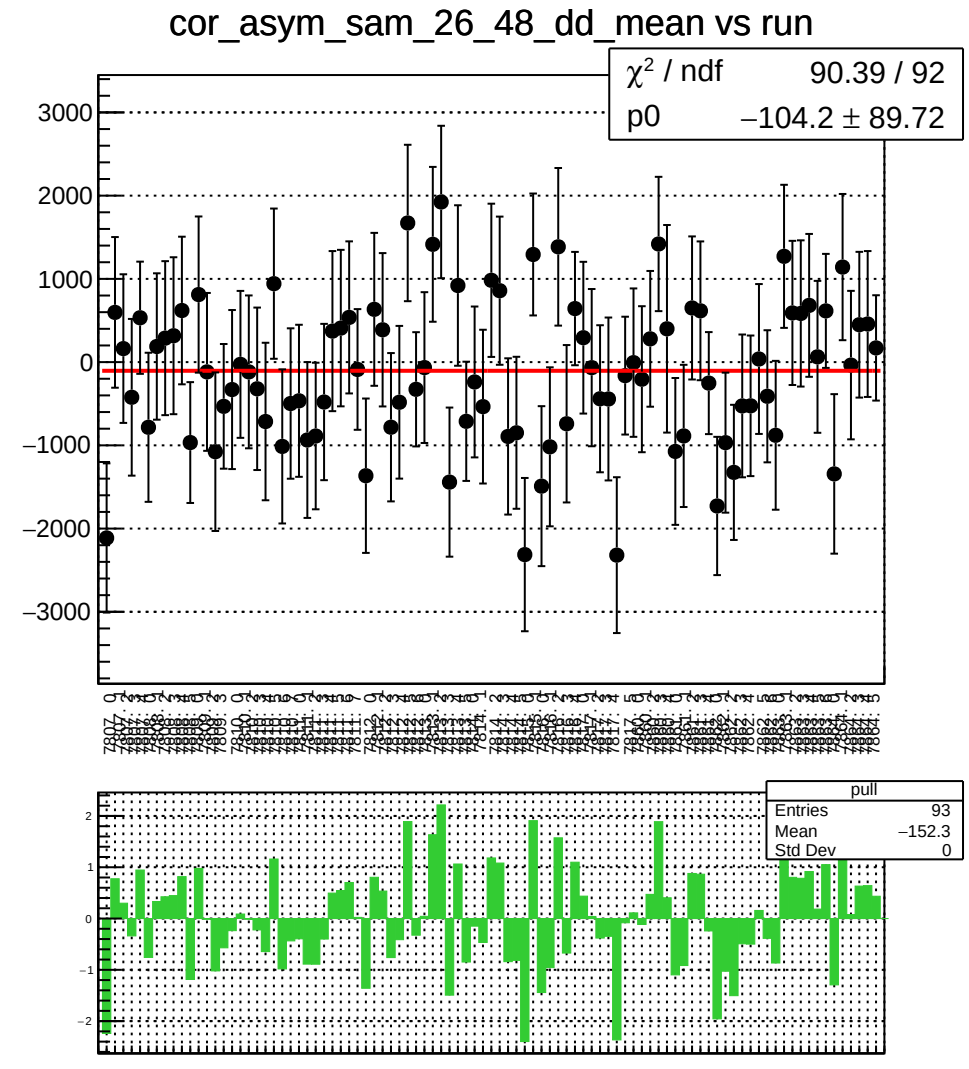

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 90.39 / 92
p0 −104.2 ± 89.72
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean −152.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.009703
Std Dev 0.9858
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

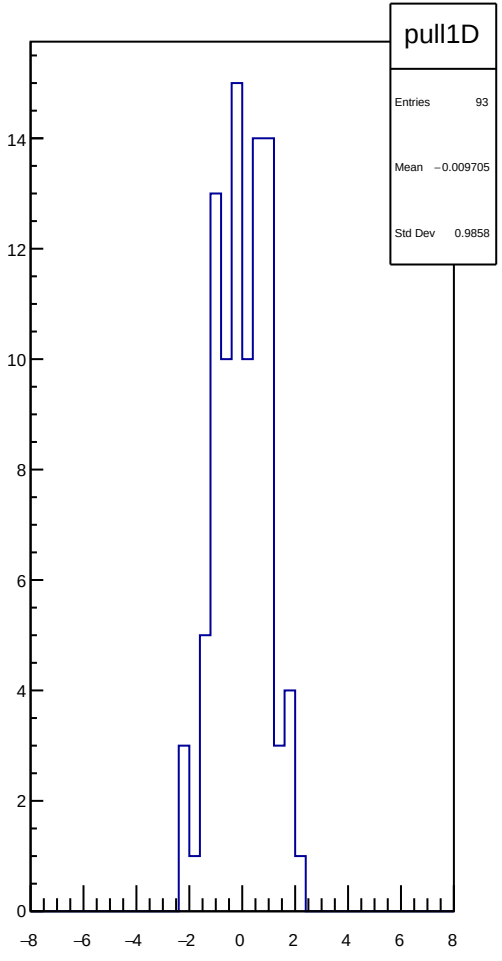

reg_asym_sam_26_48_dd_rms vs run
χ^2 / ndf 9116 / 92
p0 86.11 ± 0.06344
160
150
140
130
120
110
100
90
80
70

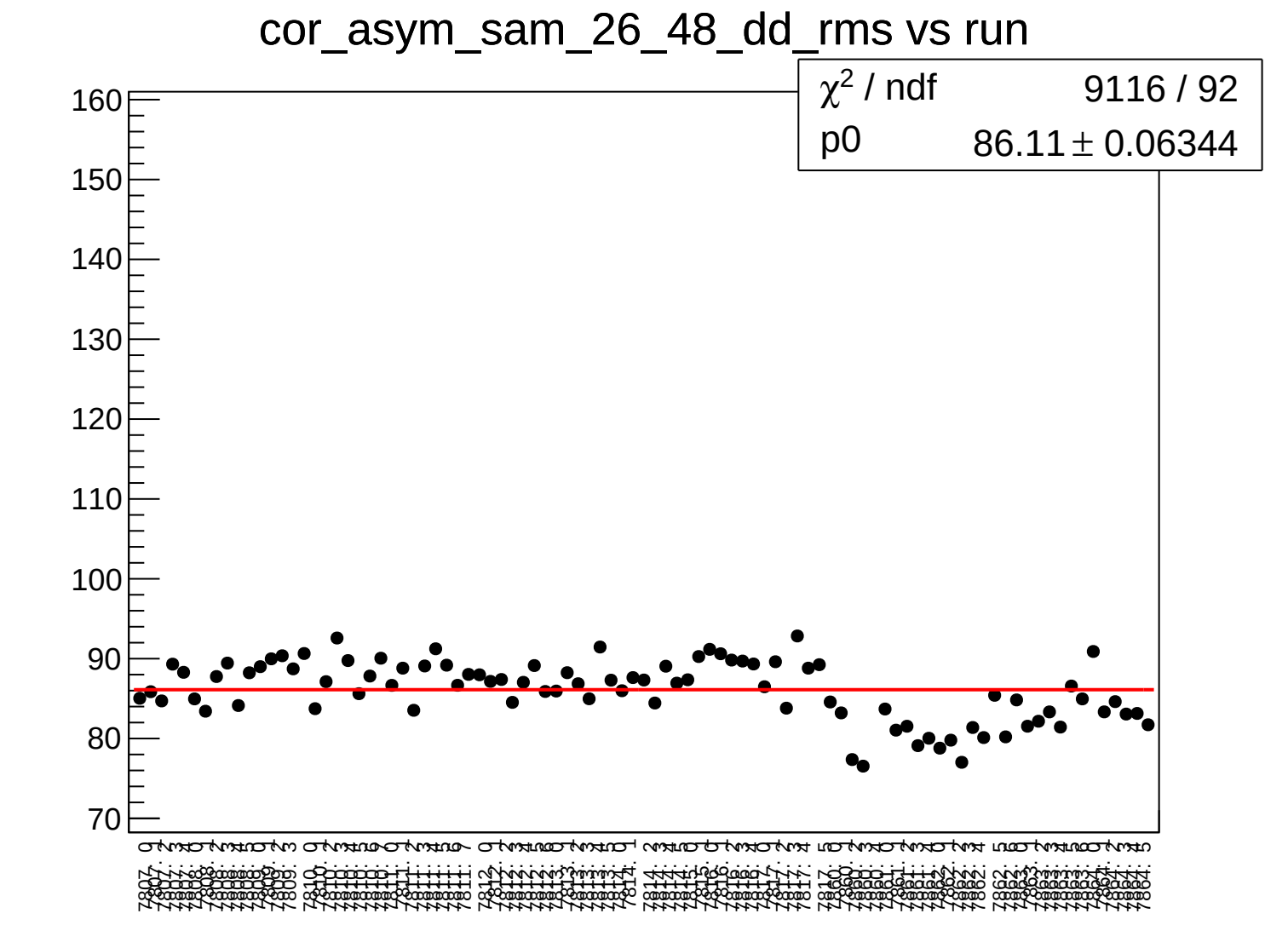

asym_sam_26_48_dd_reg_correction_mean vs run
χ² / ndf 83.32 / 92
p0 440.6 ± 530.5
pull
Entries 93
Mean −54.21
Std Dev 0

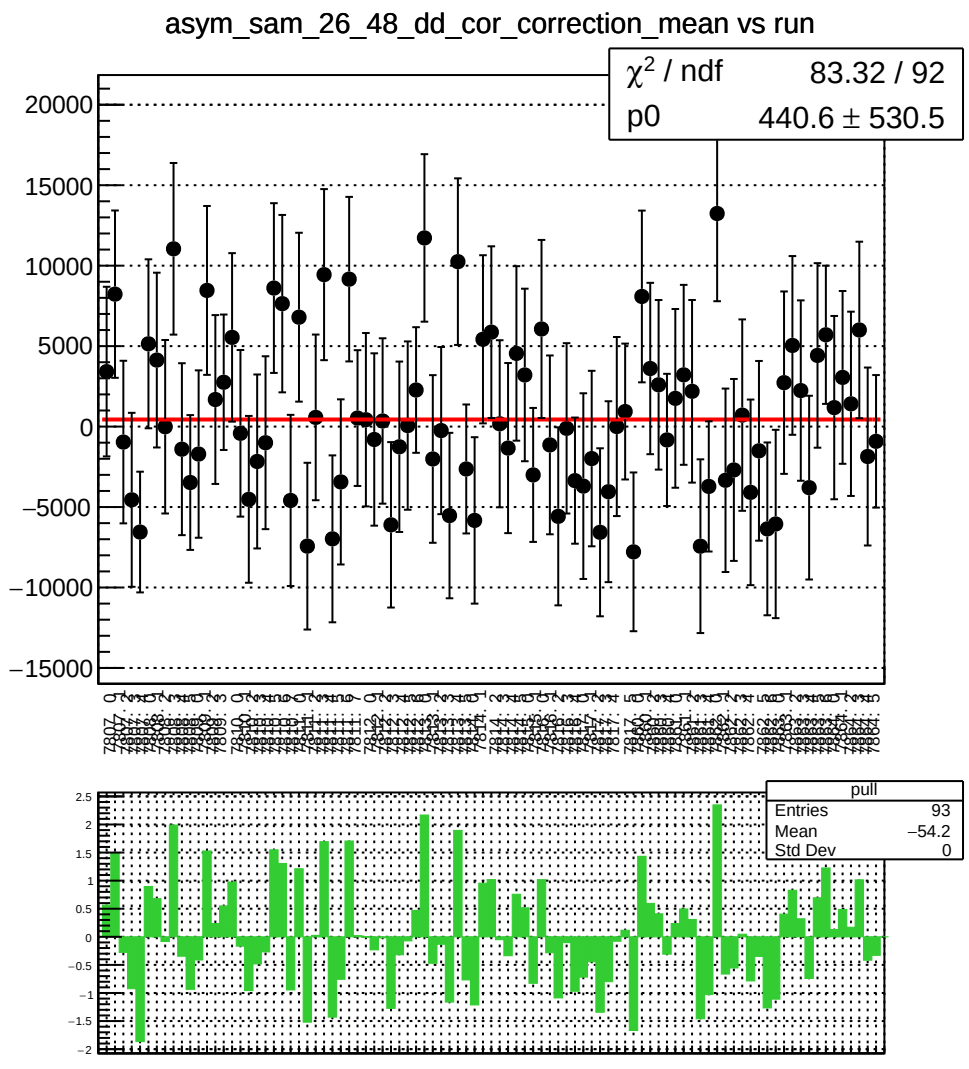

pull1D
Entries 93
Mean 0.01875
Std Dev 0.9463

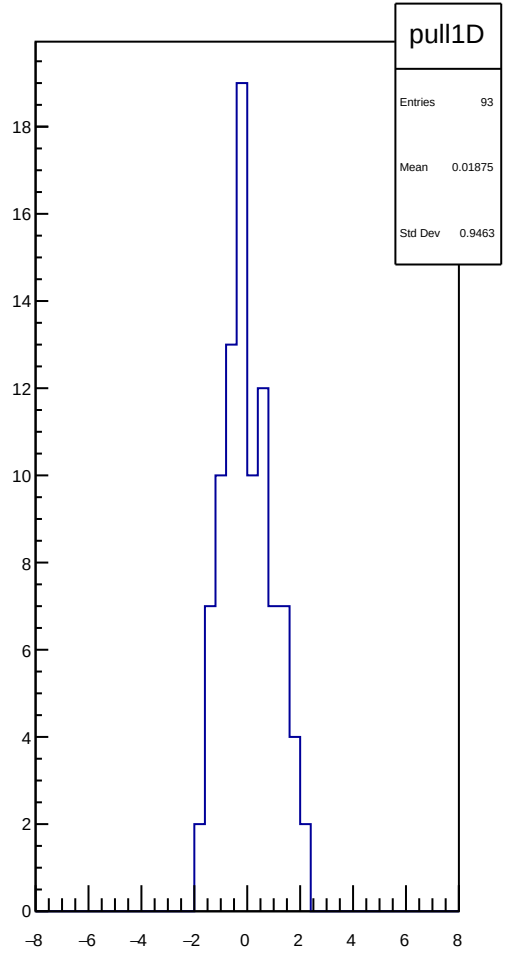

asym_sam_26_48_dd_reg_correction_rms vs run
χ² / ndf 2562 / 92
p0 510.1 ± 0.3751
560
540
520
500
480
460

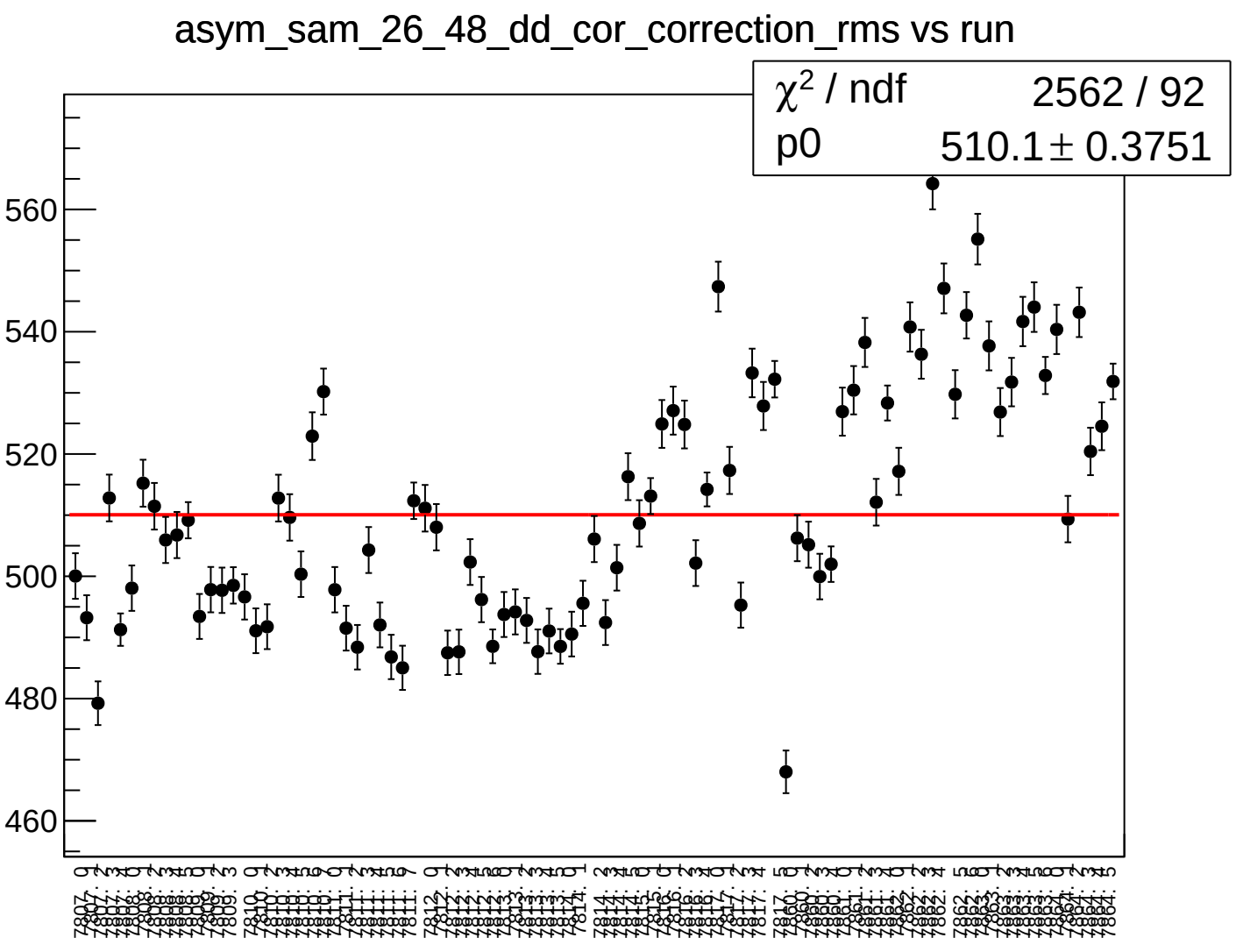

cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 90.39 / 92
p0 −104.2 ± 89.72
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean −152.3
Std Dev 0
2
1
0
−1
−2

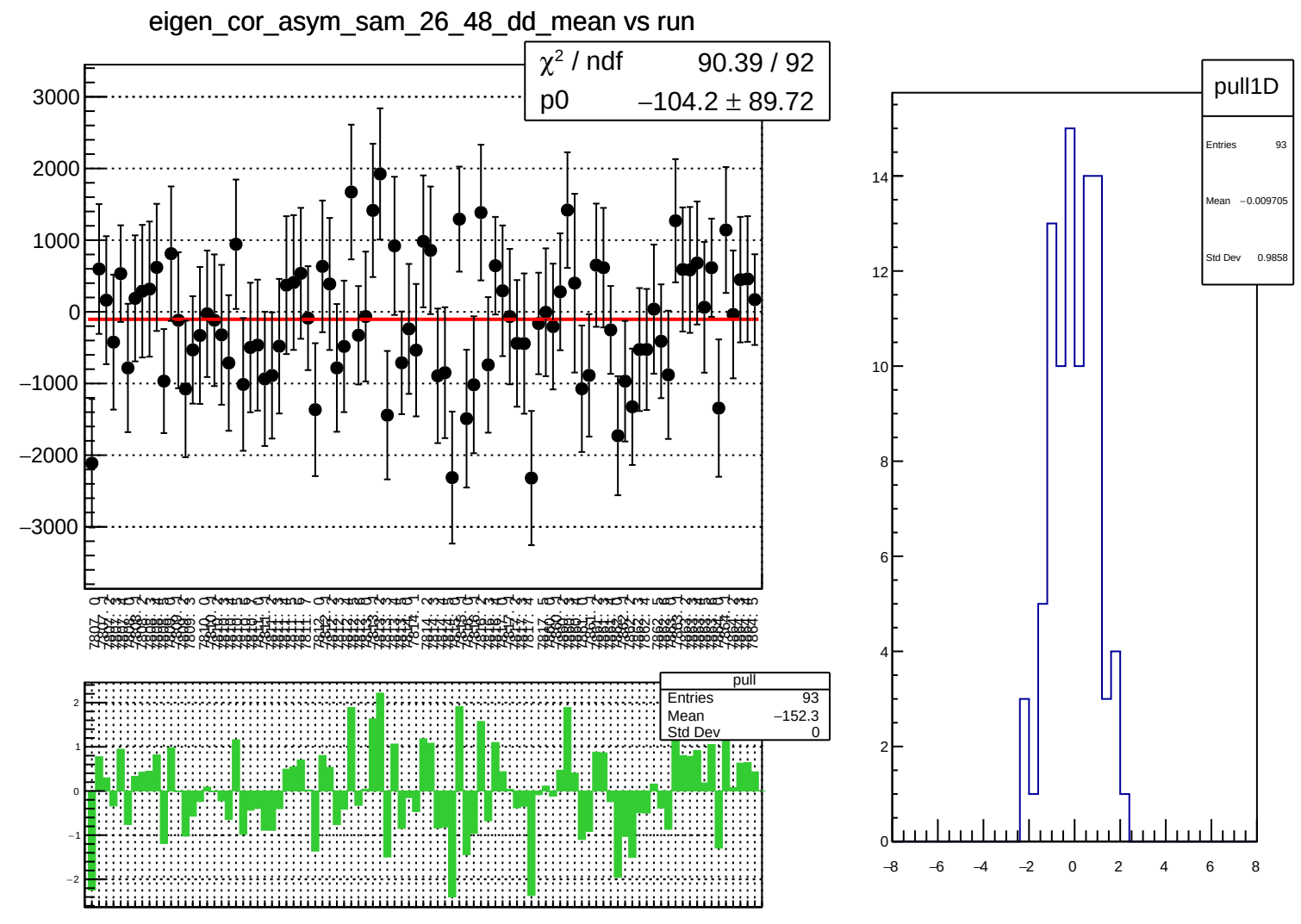

pull1D
Entries 93
Mean −0.009705
Std Dev 0.9858
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

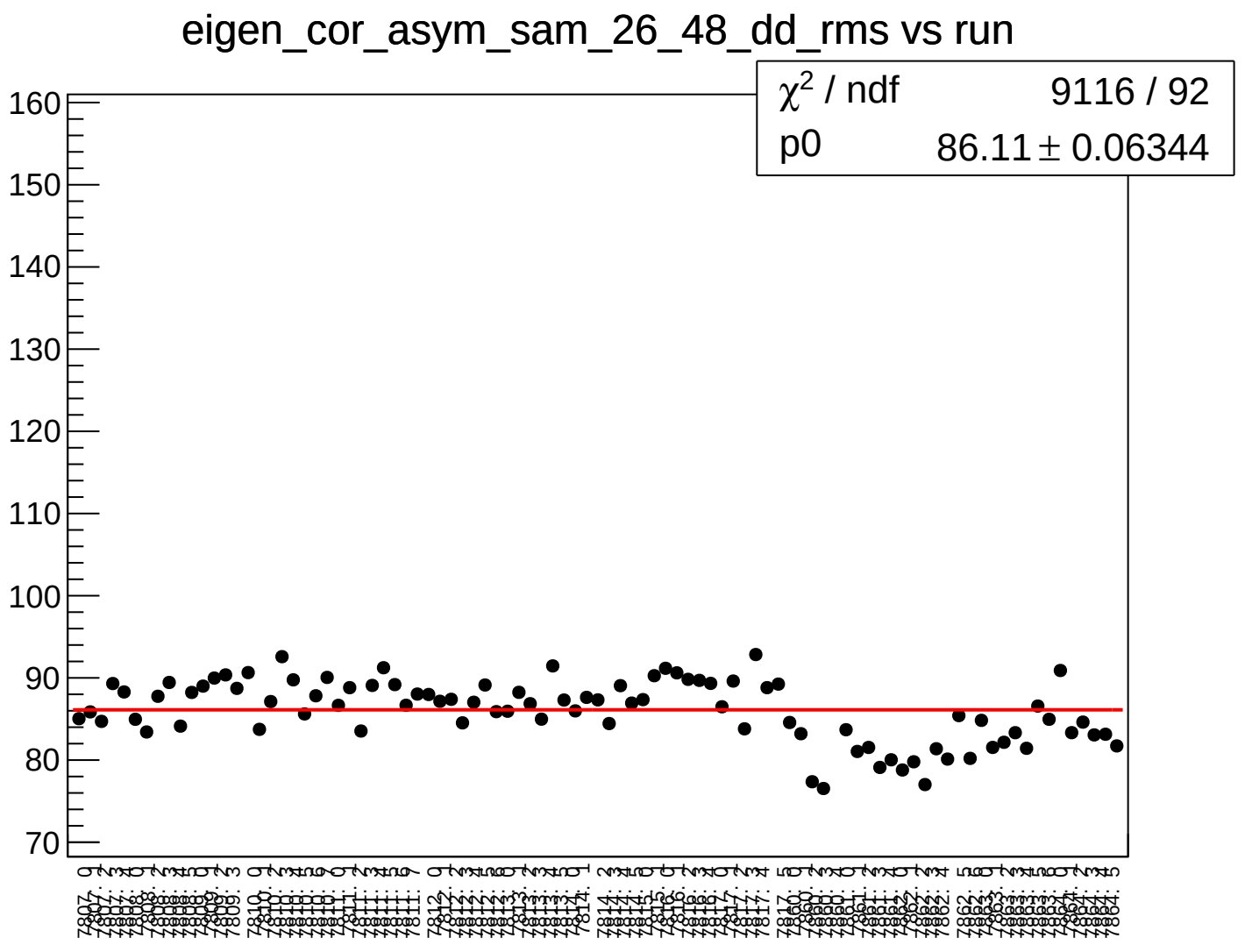

cor_asym_sam_26_48_dd_rms vs run
χ^2 / ndf 9116 / 92
p0 86.11 ± 0.06344
160
150
140
130
120
110
100
90
80
70

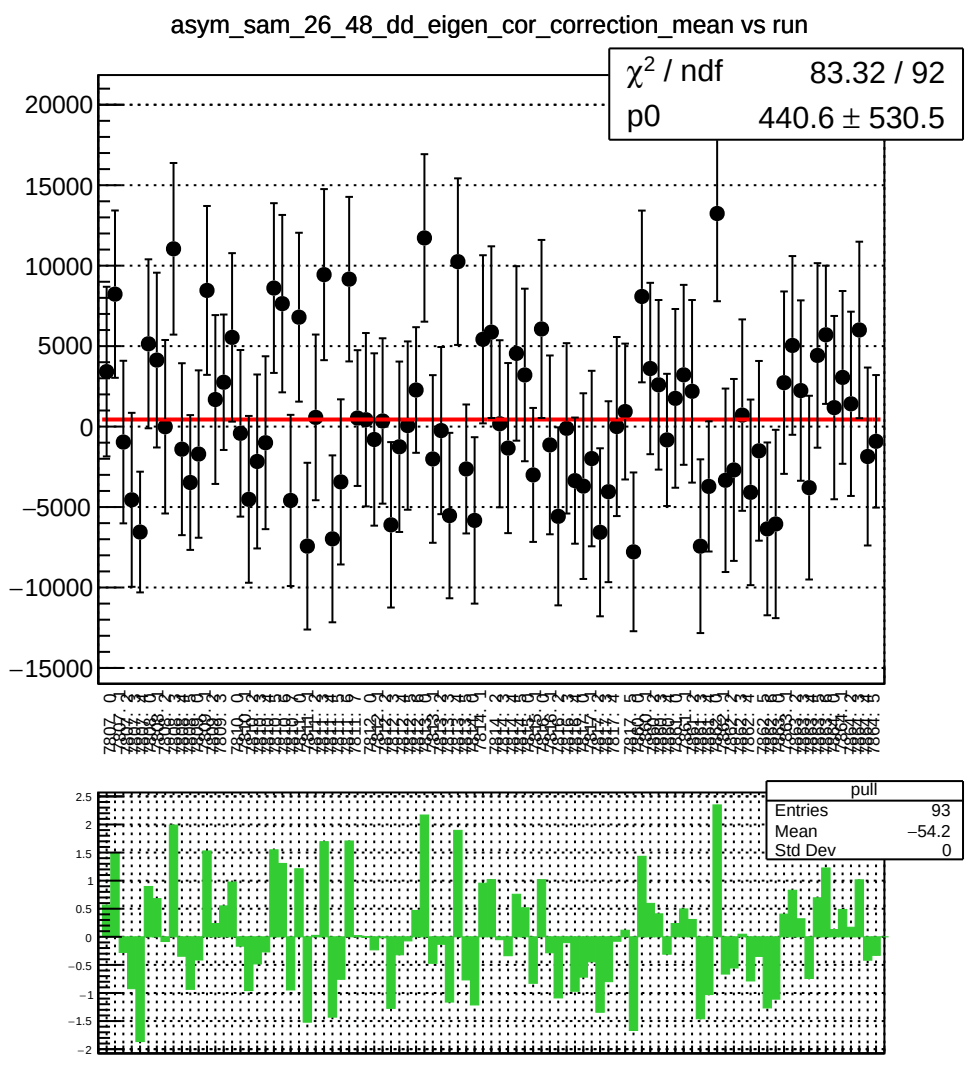

asym_sam_26_48_dd_cor_correction_mean vs run
χ² / ndf 83.32 / 92
p0 440.6 ± 530.5
pull
Entries 93
Mean −54.2
Std Dev 0

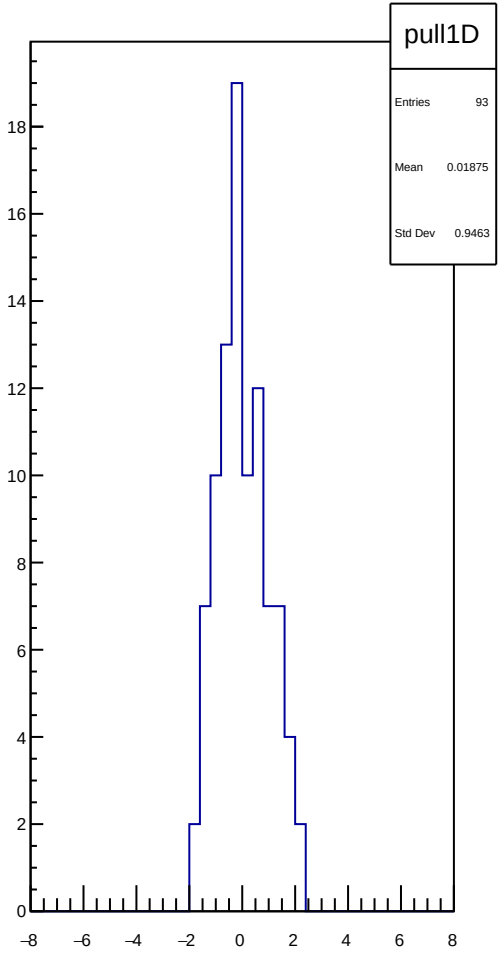

pull1D
Entries 93
Mean 0.01875
Std Dev 0.9463

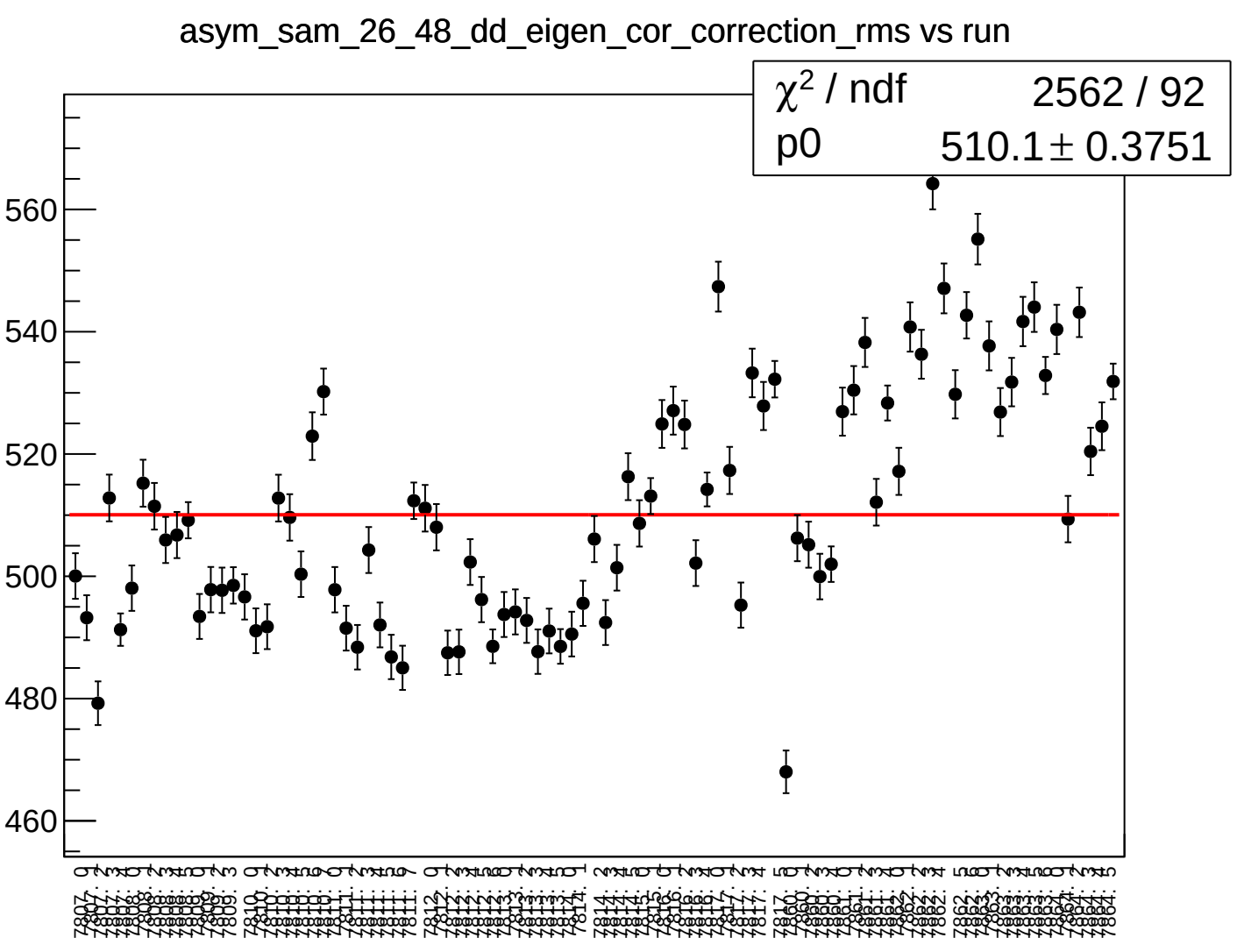

asym_sam_26_48_dd_cor_correction_rms vs run
χ² / ndf 2562 / 92
p0 510.1 ± 0.3751
560
540
520
500
480
460

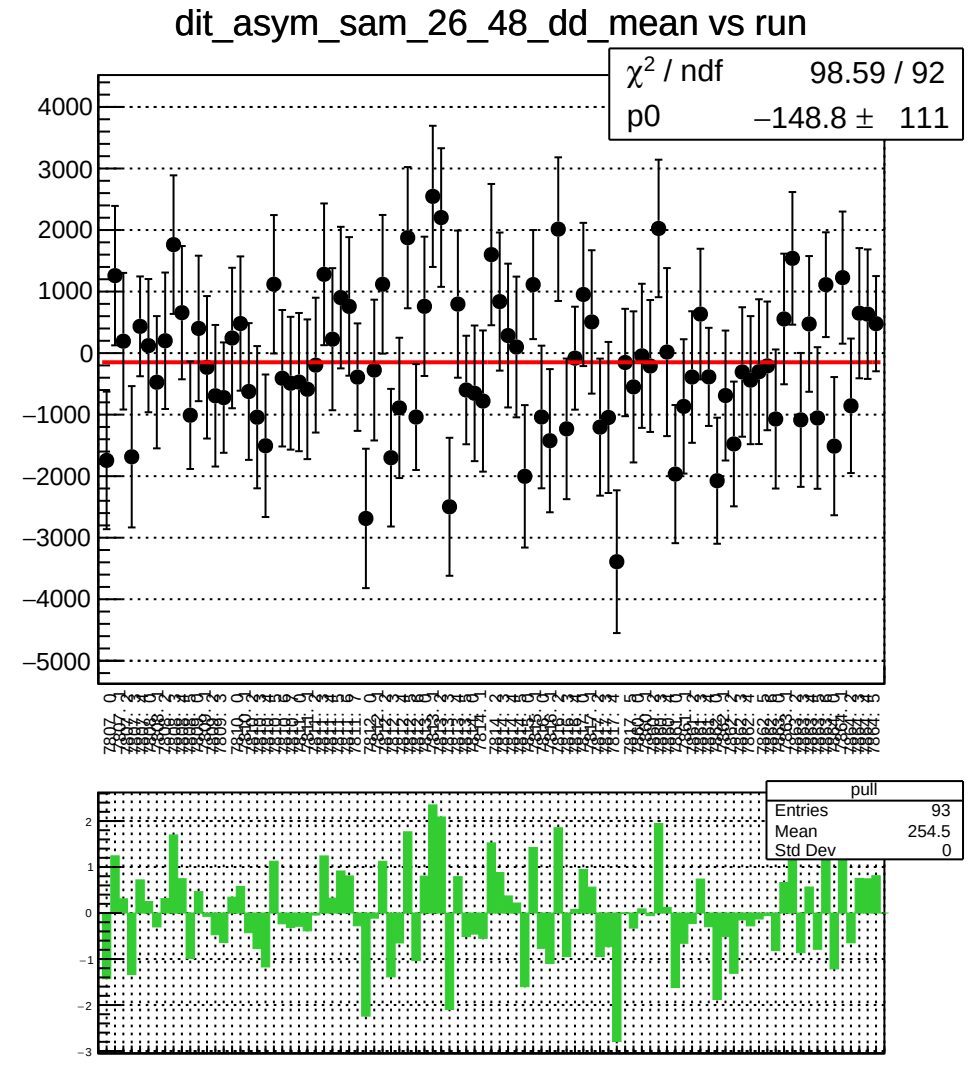

eigen_cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 90.39 / 92
p0 −104.2 ± 89.72
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean −152.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.009705
Std Dev 0.9858
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

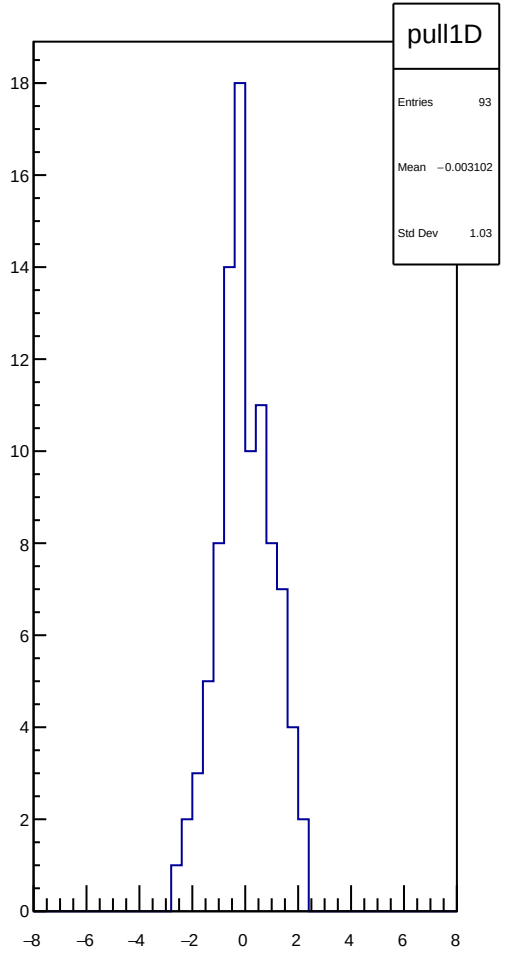

eigen_cor_asym_sam_26_48_dd_rms vs run
χ^2 / ndf 9116 / 92
p0 86.11 ± 0.06344
160
150
140
130
120
110
100
90
80
70

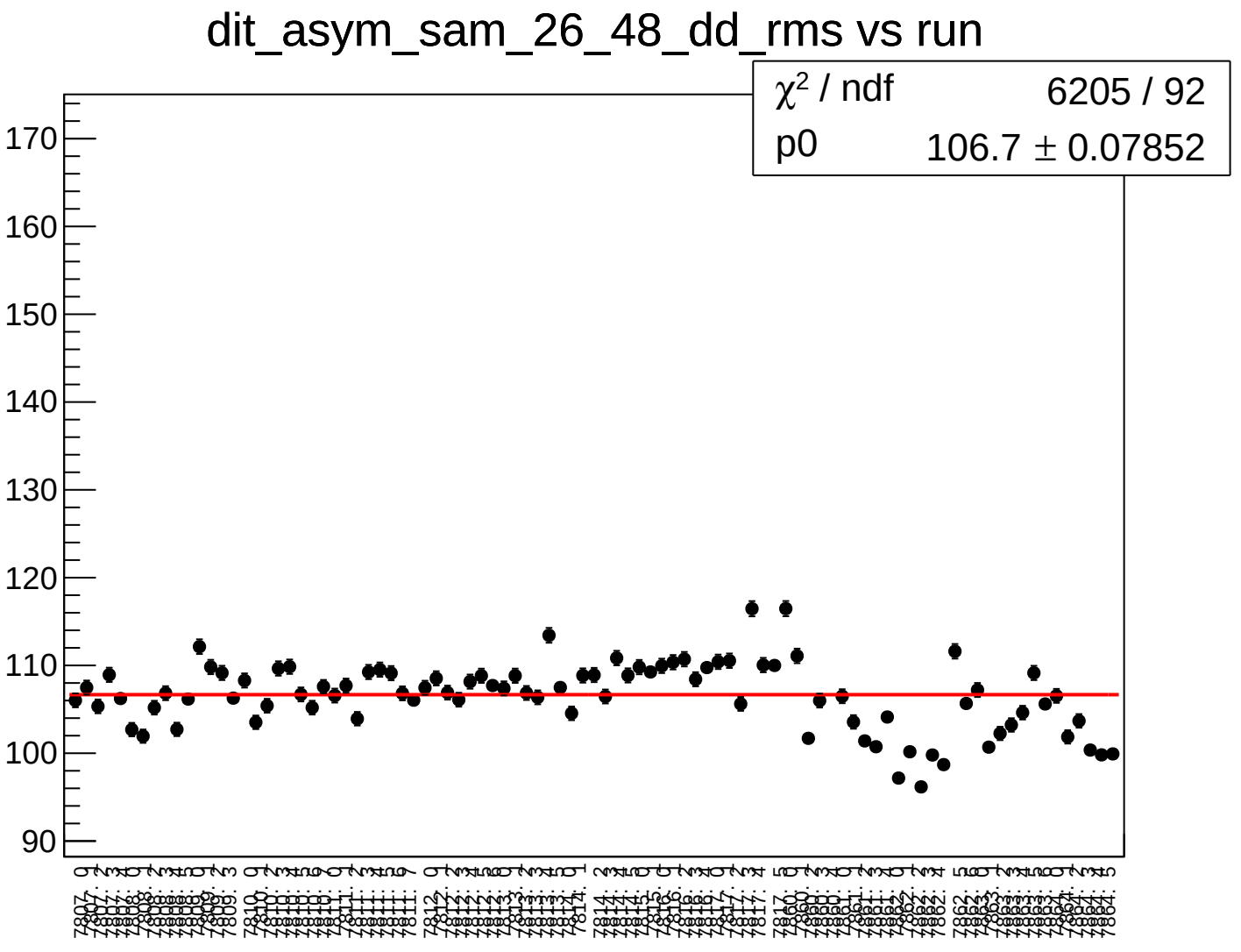

asym_sam_26_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 83.32 / 92
p0 440.6 ± 530.5
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean −54.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

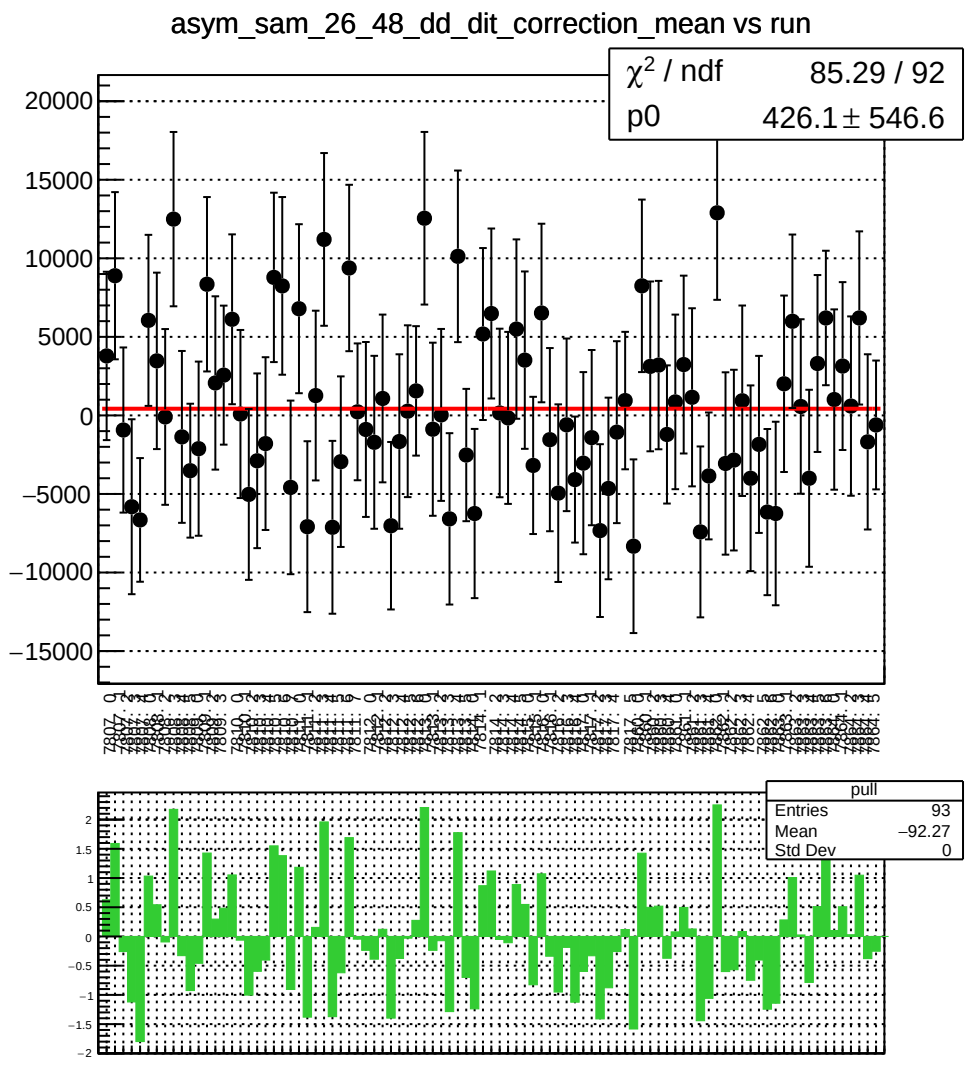

pull1D
Entries 93
Mean 0.01875
Std Dev 0.9463
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

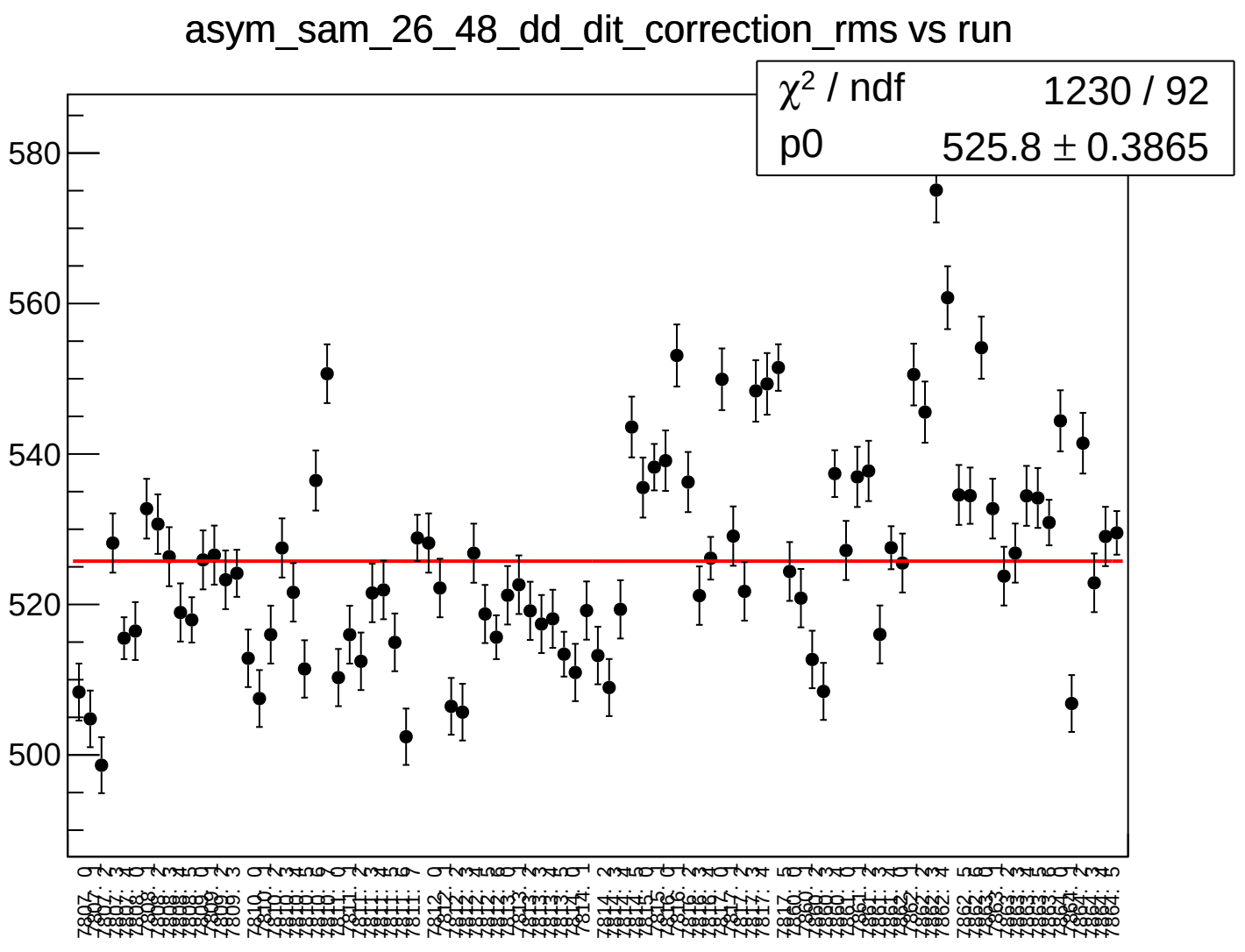

asym_sam_26_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 2562 / 92
p0 510.1 ± 0.3751
560
540
520
500
480
460

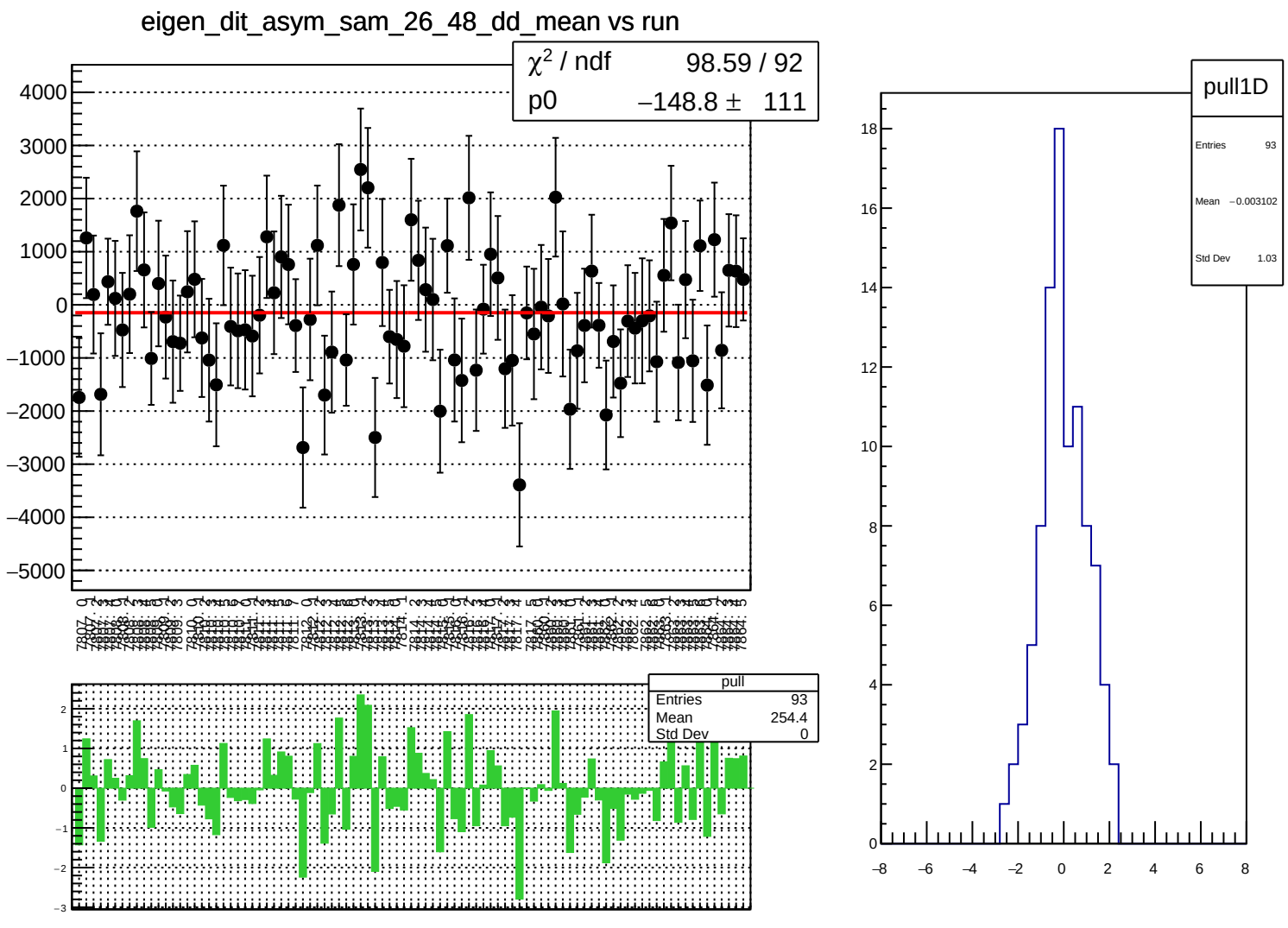

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 98.59 / 92
p0 −148.8 ± 111
pull
Entries 93
Mean 254.5
Std Dev 0

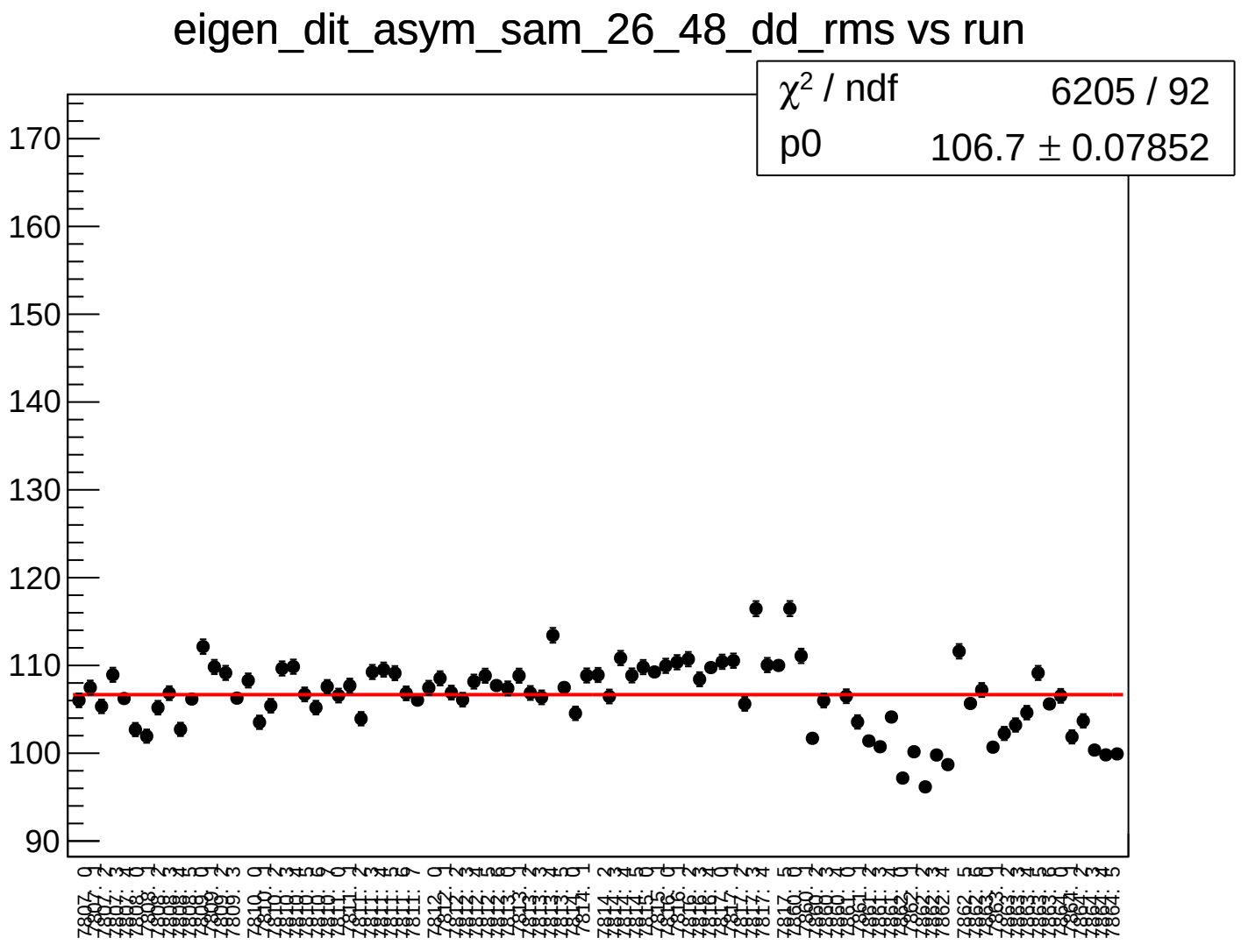

pull1D
Entries 93
Mean −0.003102
Std Dev 1.03

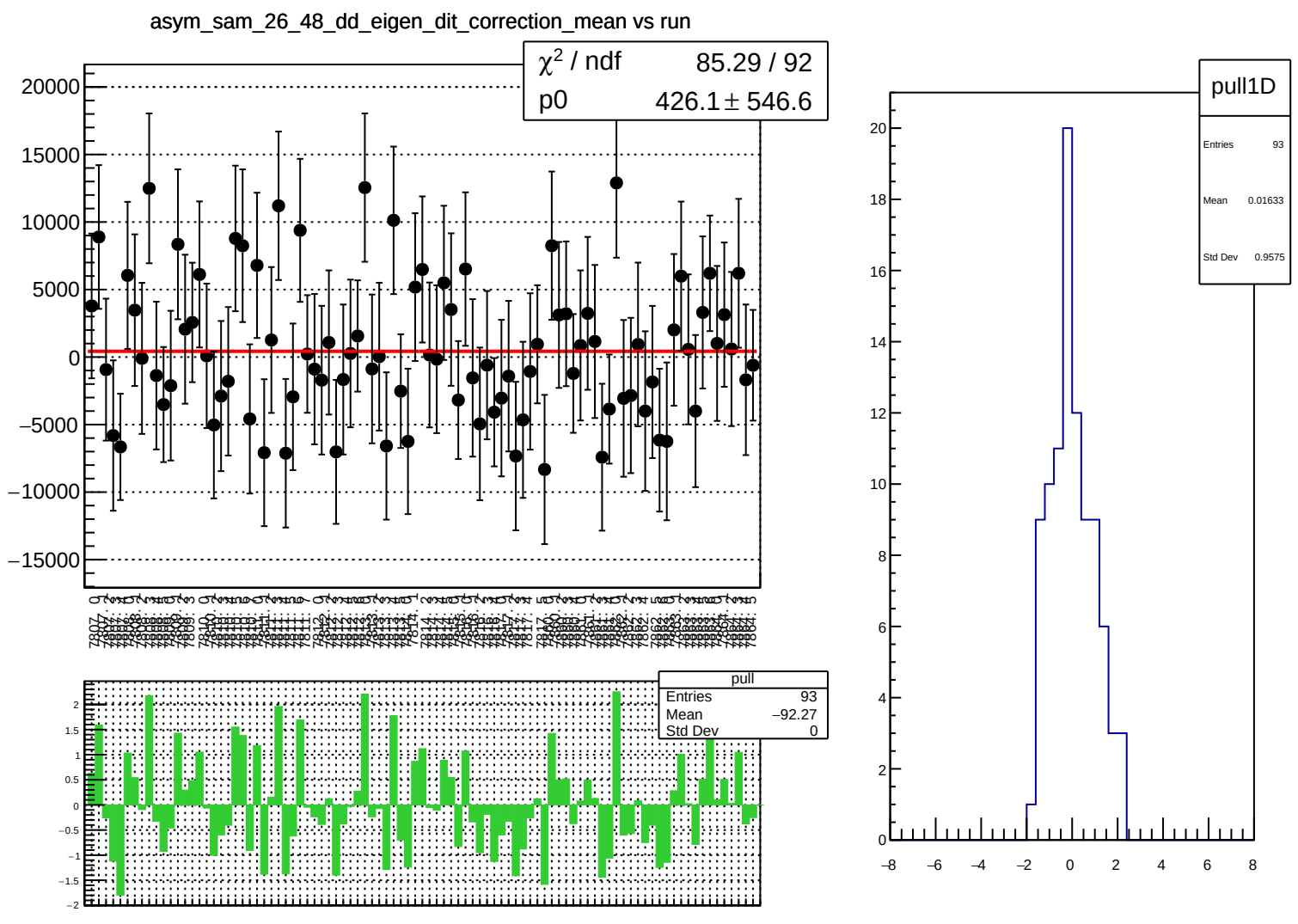

dit_asym_sam_26_48_dd_rms vs run
χ^2 / ndf 6205 / 92
p0 106.7 ± 0.07852
170
160
150
140
130
120
110
100
90

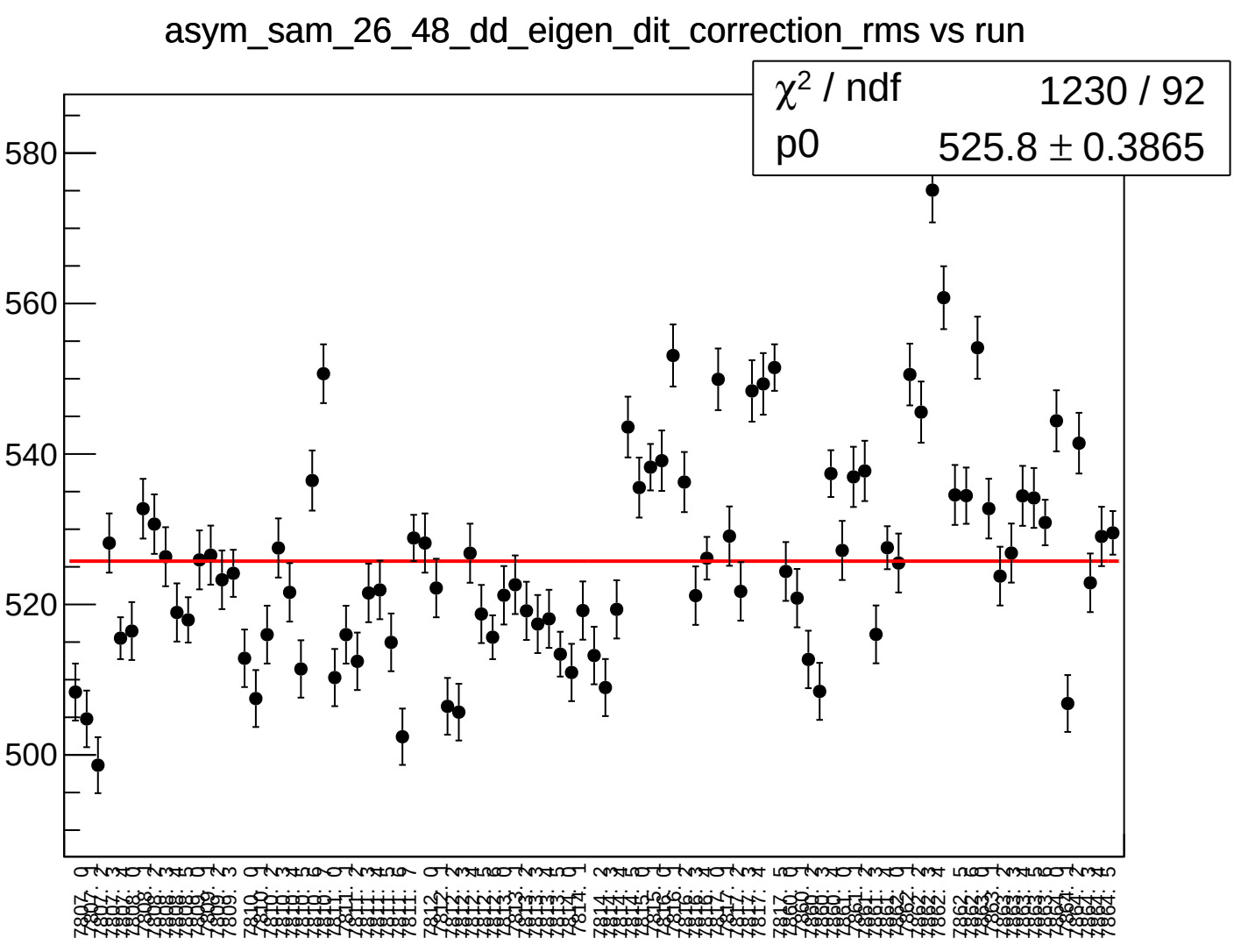

asym_sam_26_48_dd_dit_correction_mean vs run
χ² / ndf 85.29 / 92
p0 426.1 ± 546.6
pull
Entries 93
Mean −92.27
Std Dev 0
pull1D
Entries 93
Mean 0.01633
Std Dev 0.9575

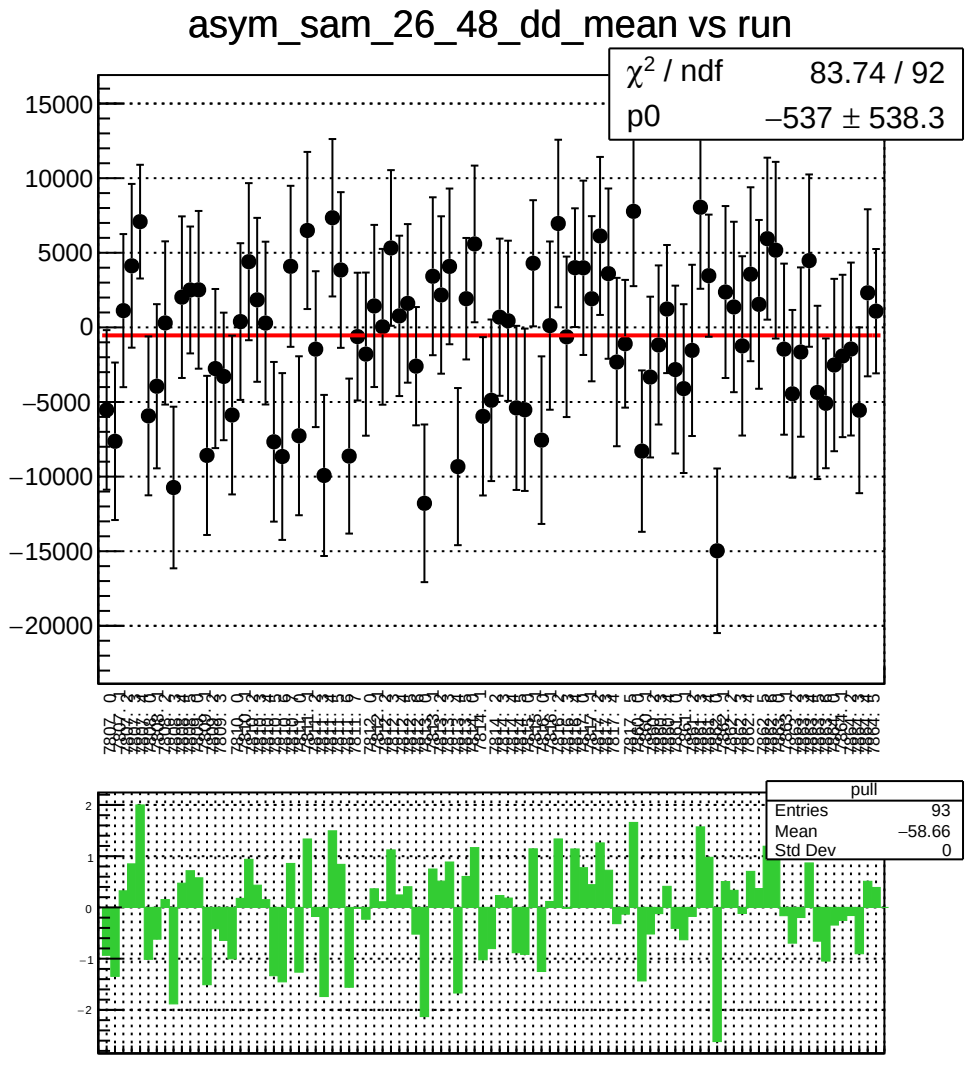

asym_sam_26_48_dd_dit_correction_rms vs run
χ² / ndf 1230 / 92
p0 525.8 ± 0.3865
580
560
540
520
500

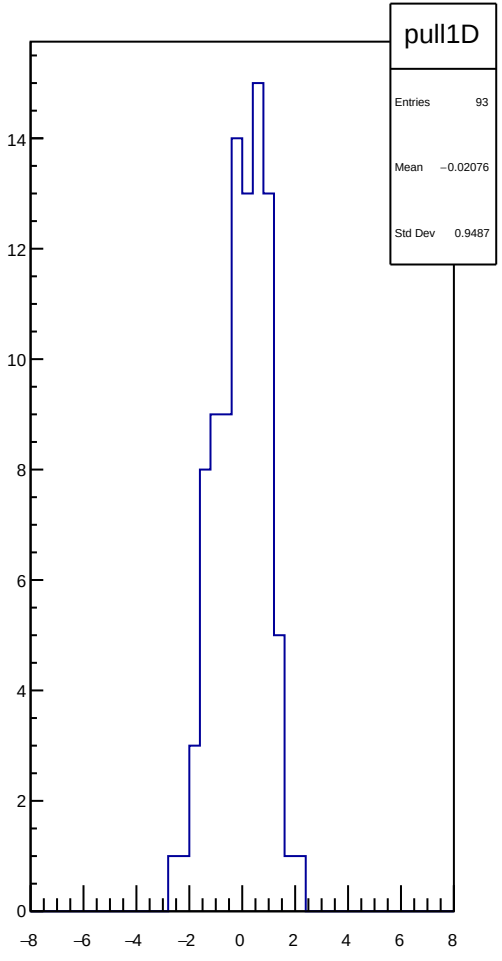

eigen_dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 98.59 / 92
p0 −148.8 ± 111
pull
Entries 93
Mean 254.4
Std Dev 0
pull1D
Entries 93
Mean −0.003102
Std Dev 1.03

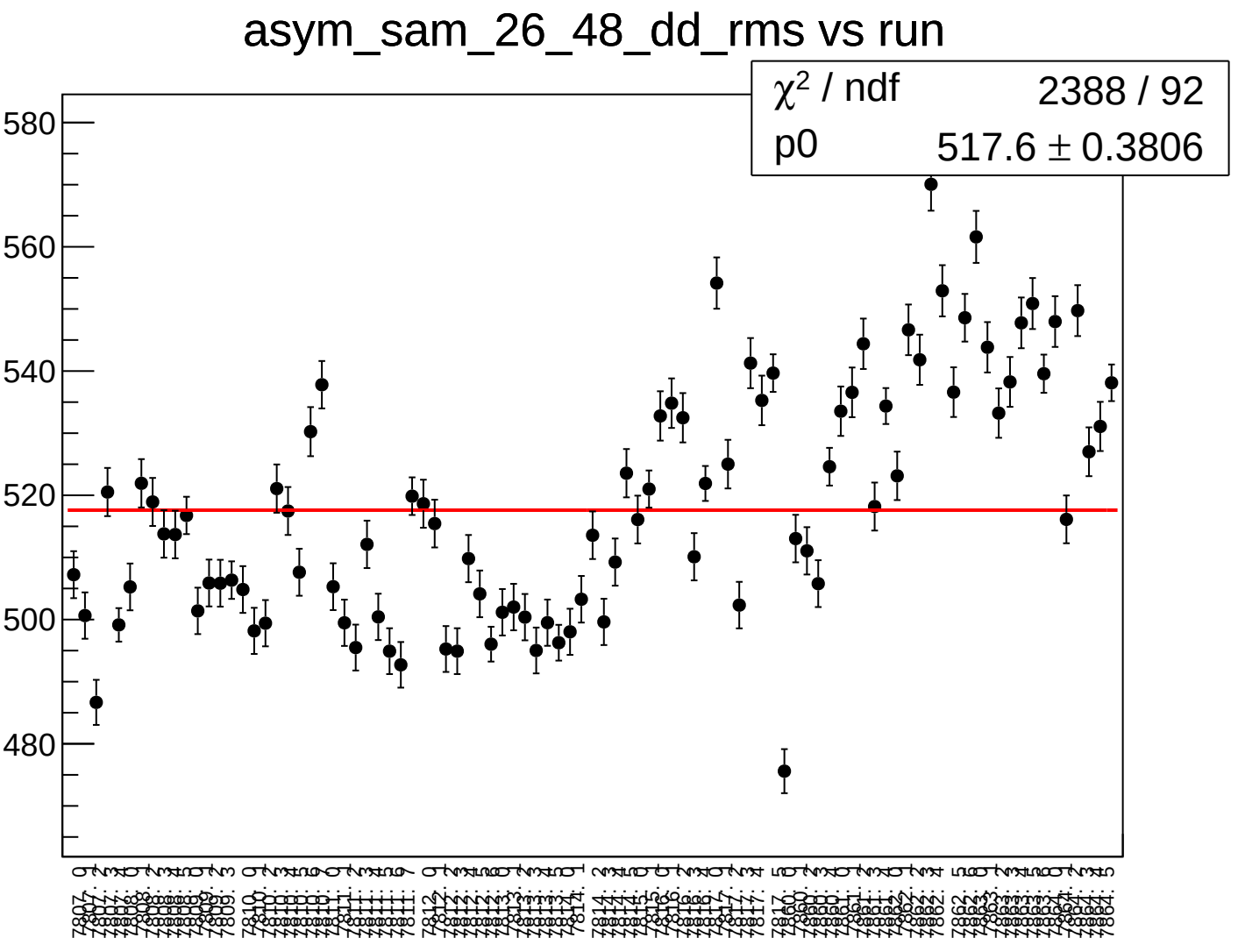

eigen_dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 6205 / 92
p0 106.7 ± 0.07852
170
160
150
140
130
120
110
100
90

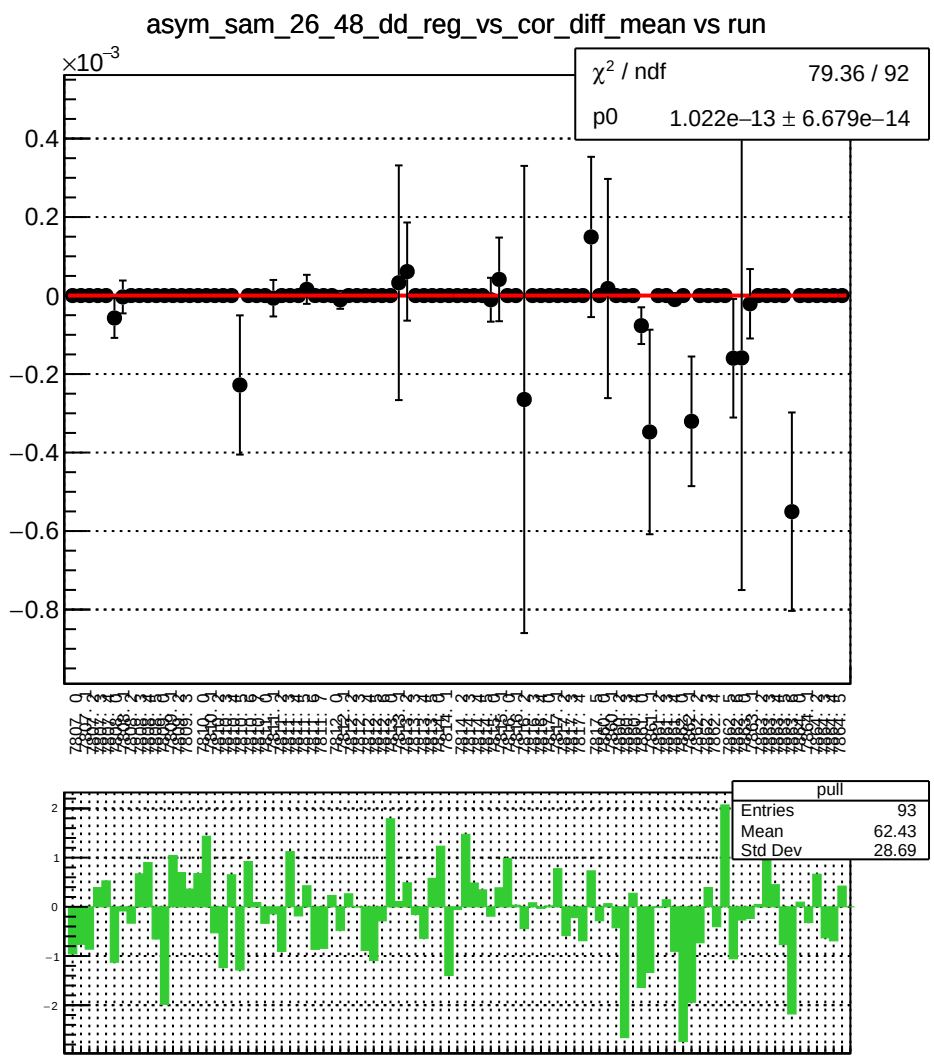

asym_sam_26_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 85.29 / 92
p0 426.1 ± 546.6
pull
Entries 93
Mean −92.27
Std Dev 0
pull1D
Entries 93
Mean 0.01633
Std Dev 0.9575

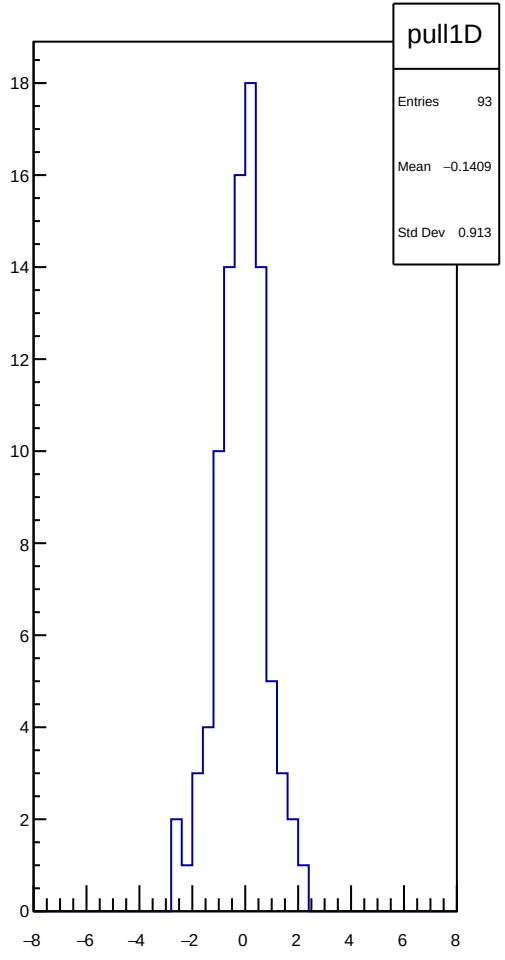

asym_sam_26_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 1230 / 92
p0 525.8 ± 0.3865
580
560
540
520
500

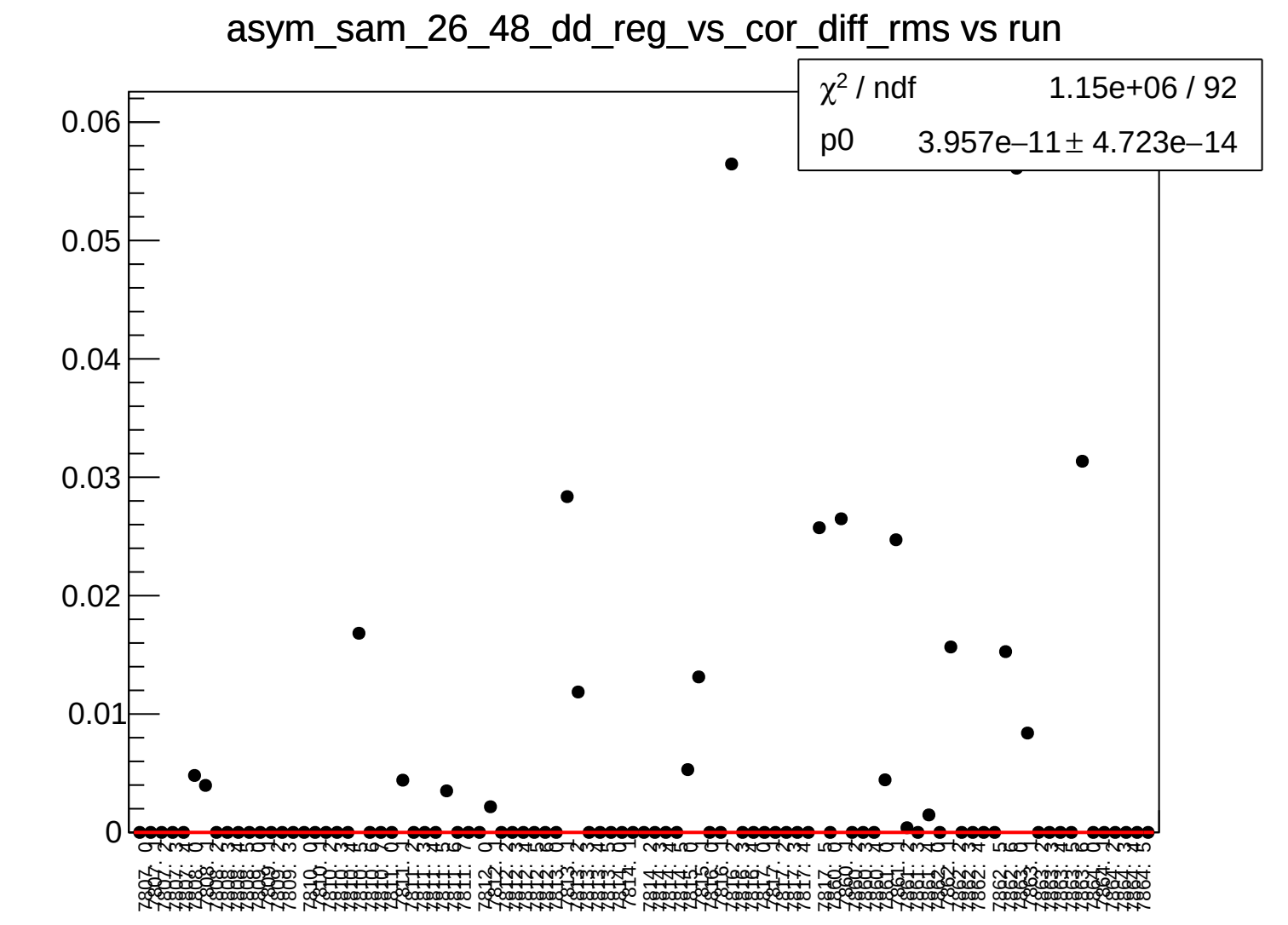

asym_sam_26_48_dd_mean vs run
χ² / ndf 83.74 / 92
p0 −537 ± 538.3
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 93
Mean −58.66
Std Dev 0
2
1
0
−1
−2

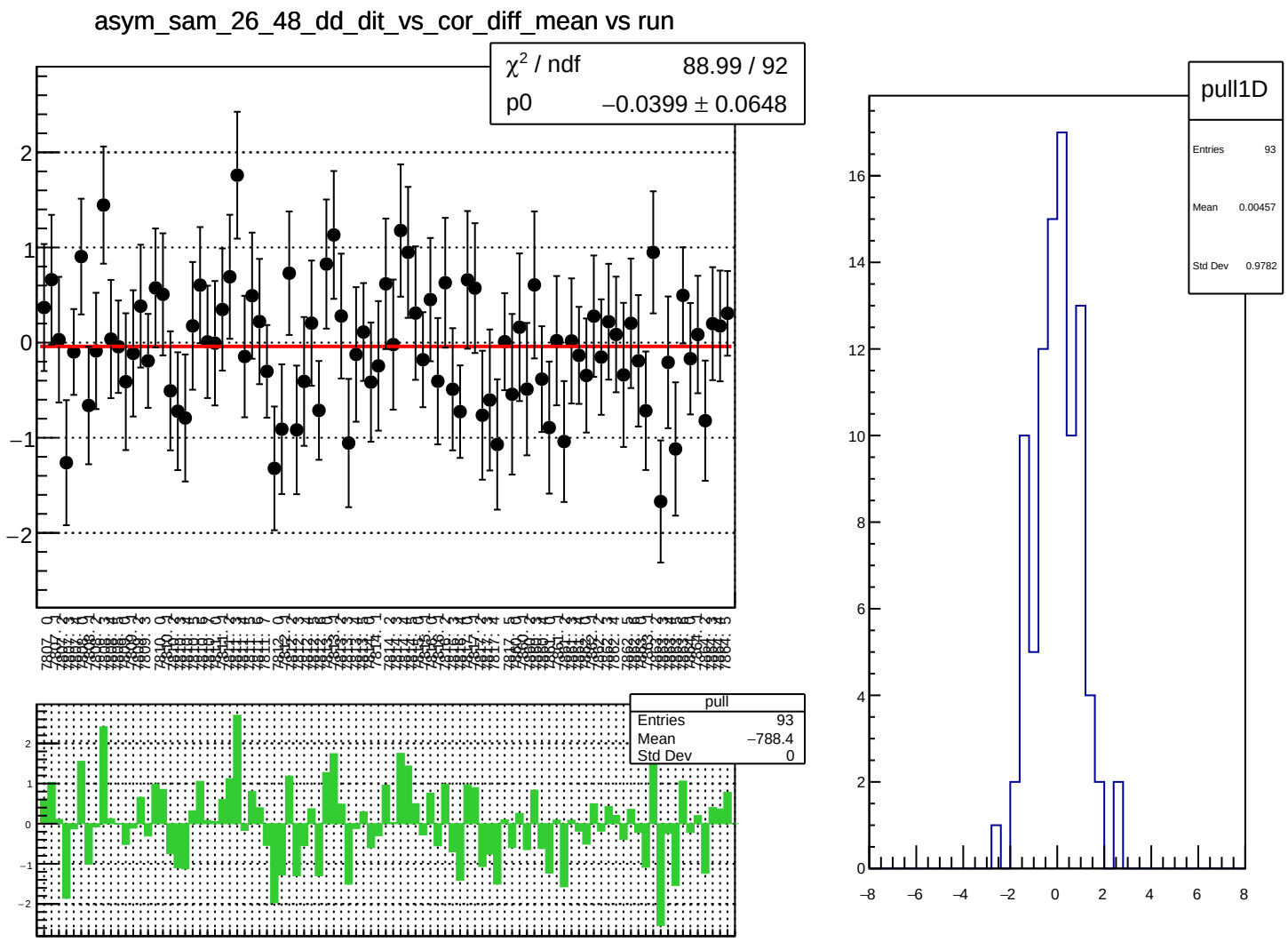

pull1D
Entries 93
Mean −0.02076
Std Dev 0.9487
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

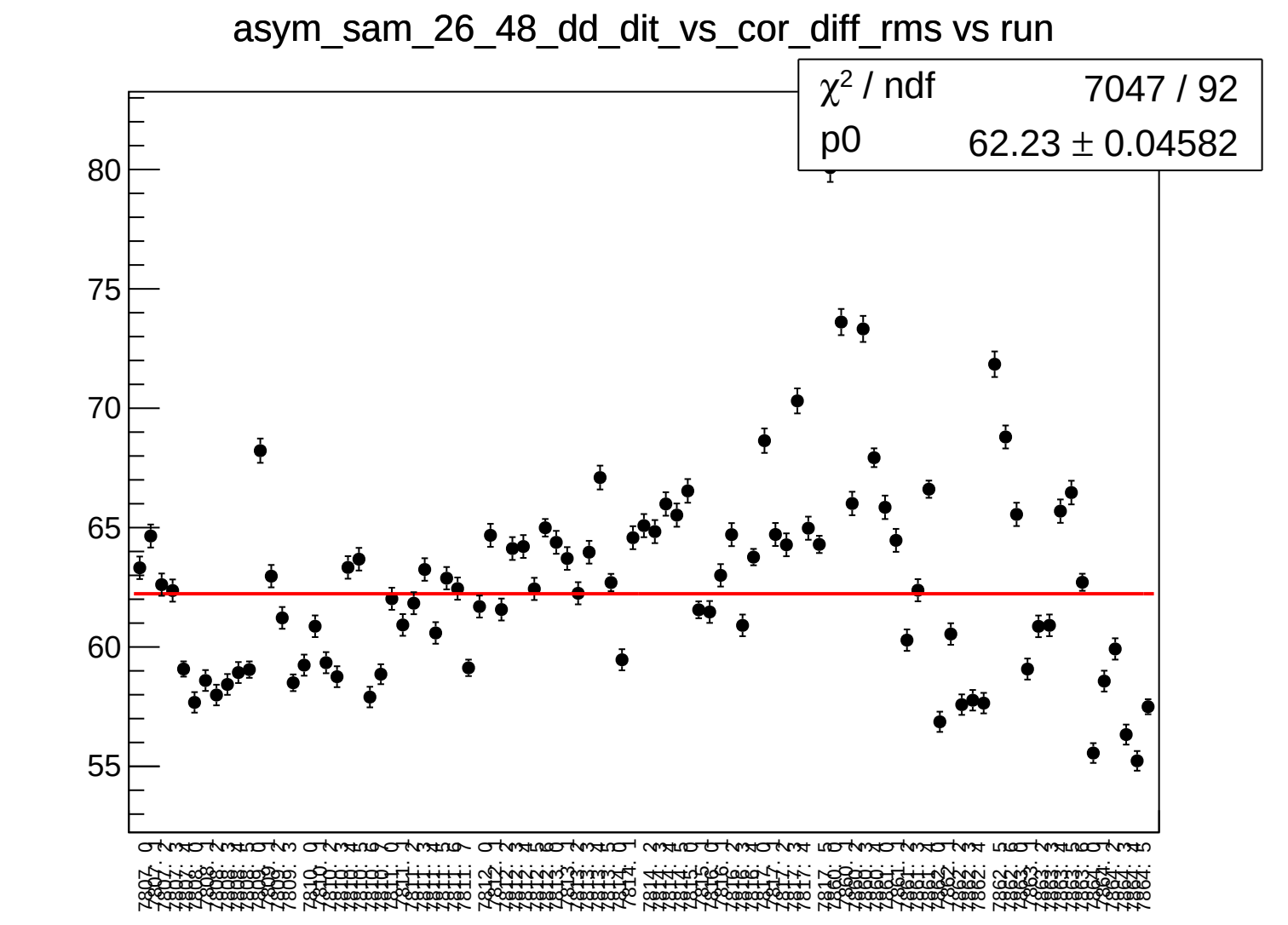

asym_sam_26_48_dd_rms vs run
χ² / ndf 2388 / 92
p0 517.6 ± 0.3806
580
560
540
520
500
480

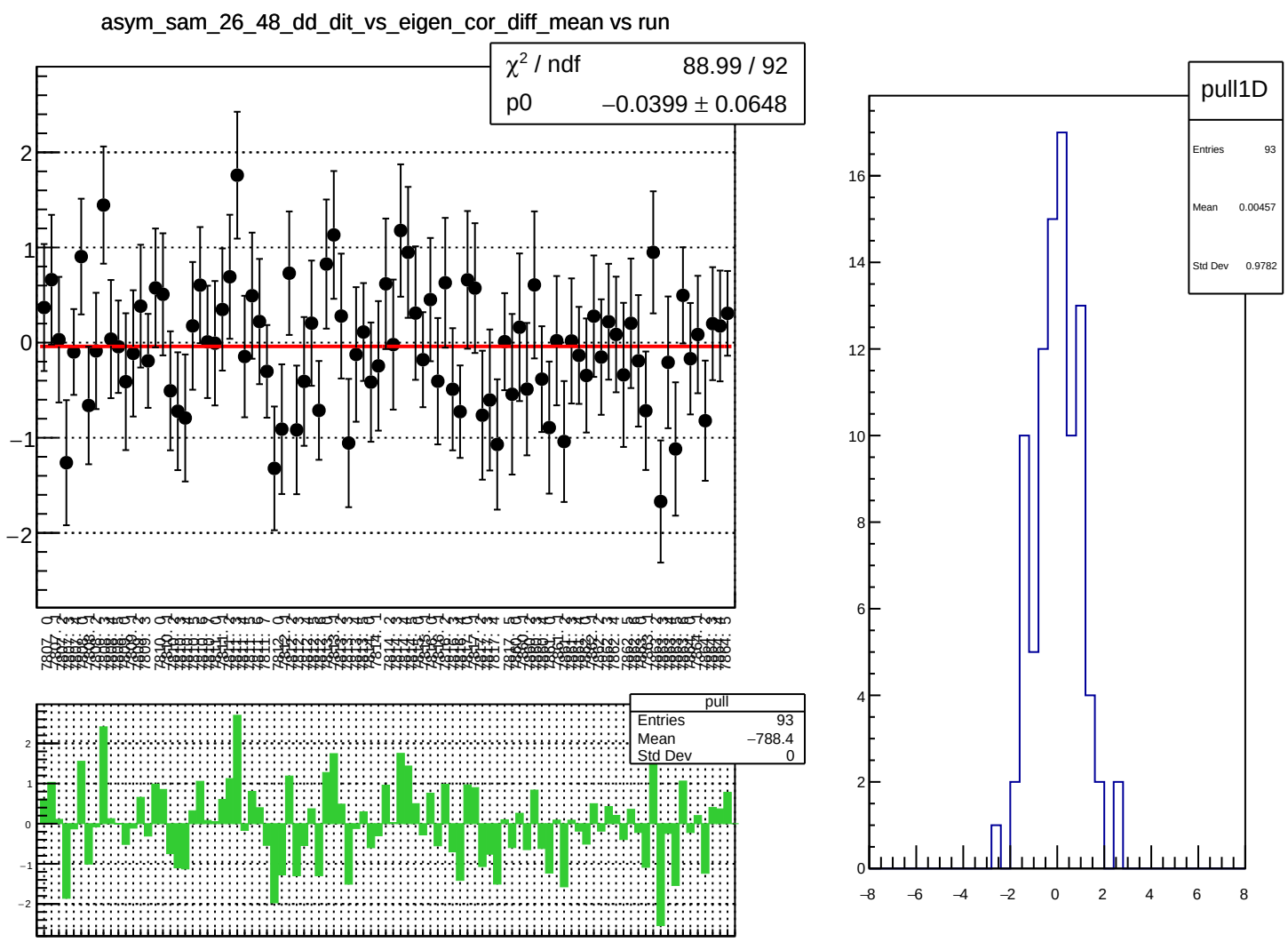

asym_sam_26_48_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 79.36 / 92
p0 1.022e−13 ± 6.679e−14
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull
Entries 93
Mean 62.43
Std Dev 28.69
2
1
0
−1
−2

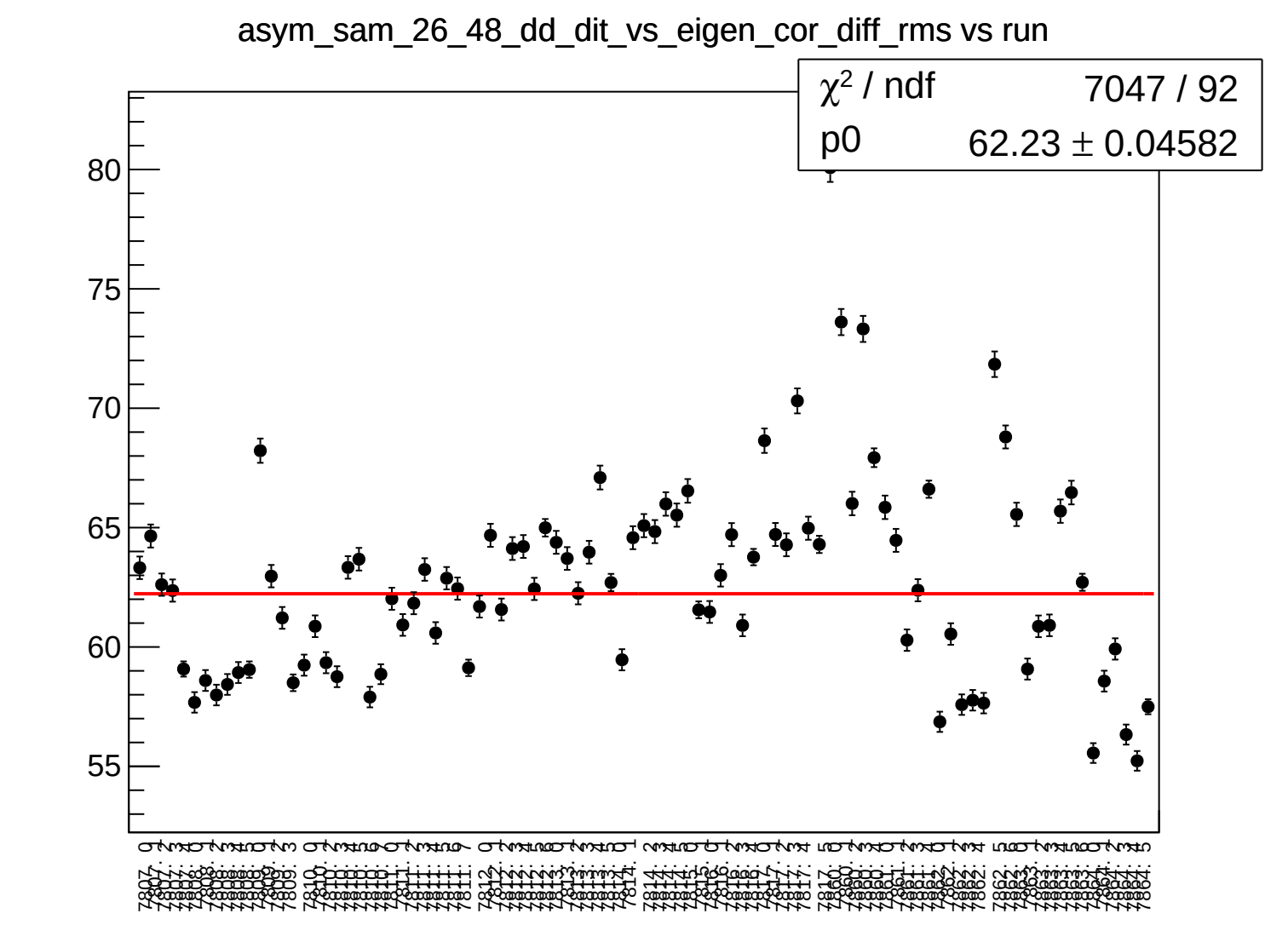

pull1D
Entries 93
Mean −0.1409
Std Dev 0.913
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

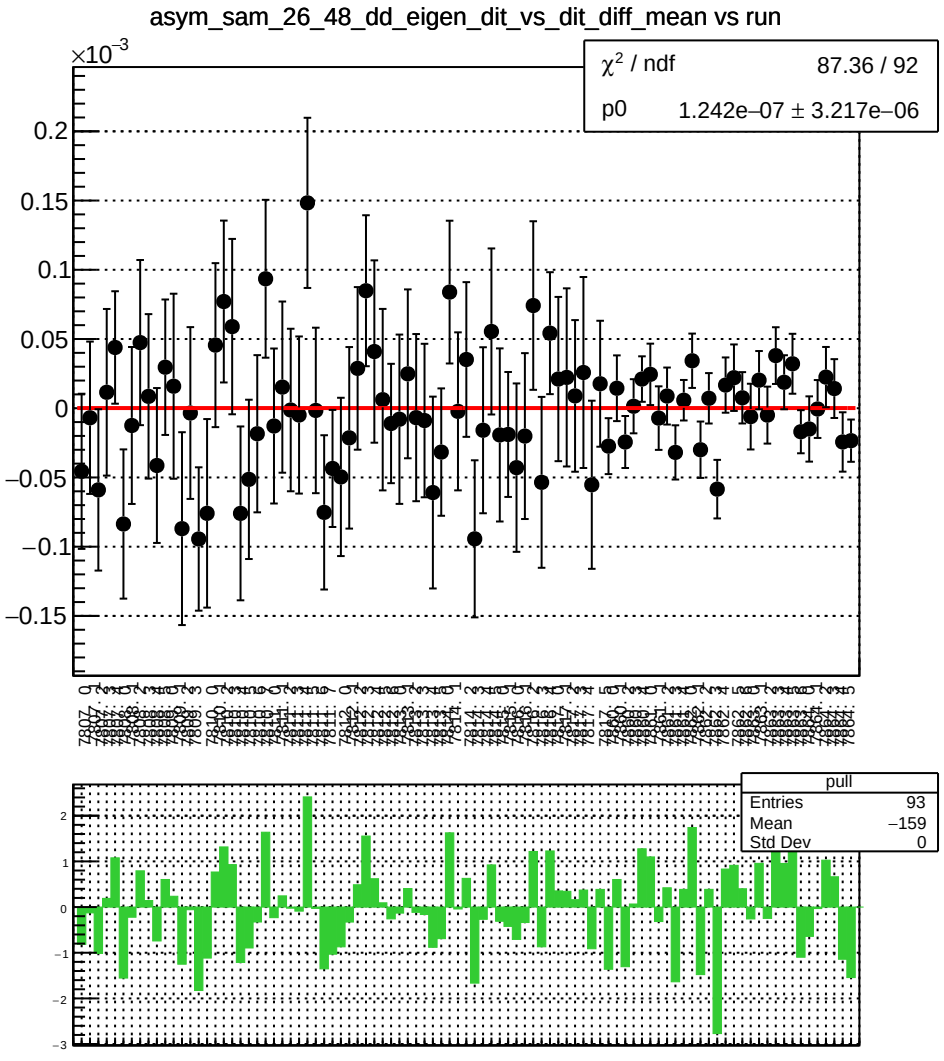

asym_sam_26_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.15e+06 / 92
p0 3.957e−11 ± 4.723e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

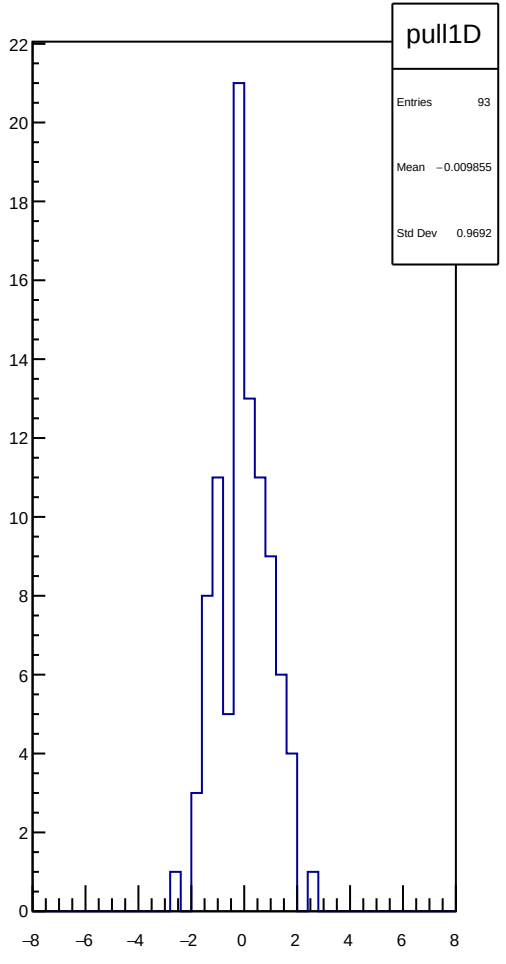

asym_sam_26_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 88.99 / 92
p0 −0.0399 ± 0.0648
pull
Entries 93
Mean −788.4
Std Dev 0
pull1D
Entries 93
Mean 0.00457
Std Dev 0.9782

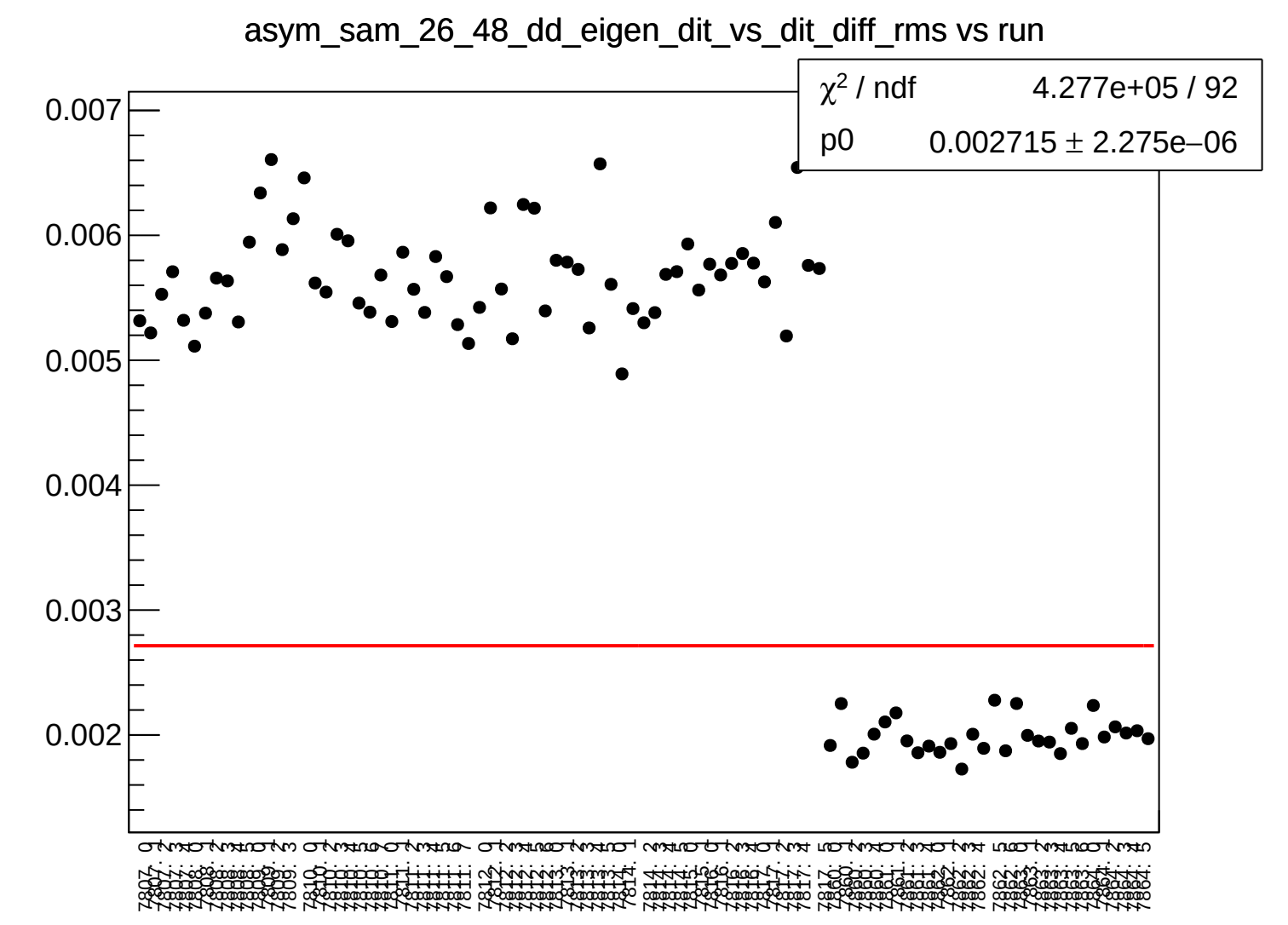

asym_sam_26_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7047 / 92
p0 62.23 ± 0.04582
80
75
70
65
60
55

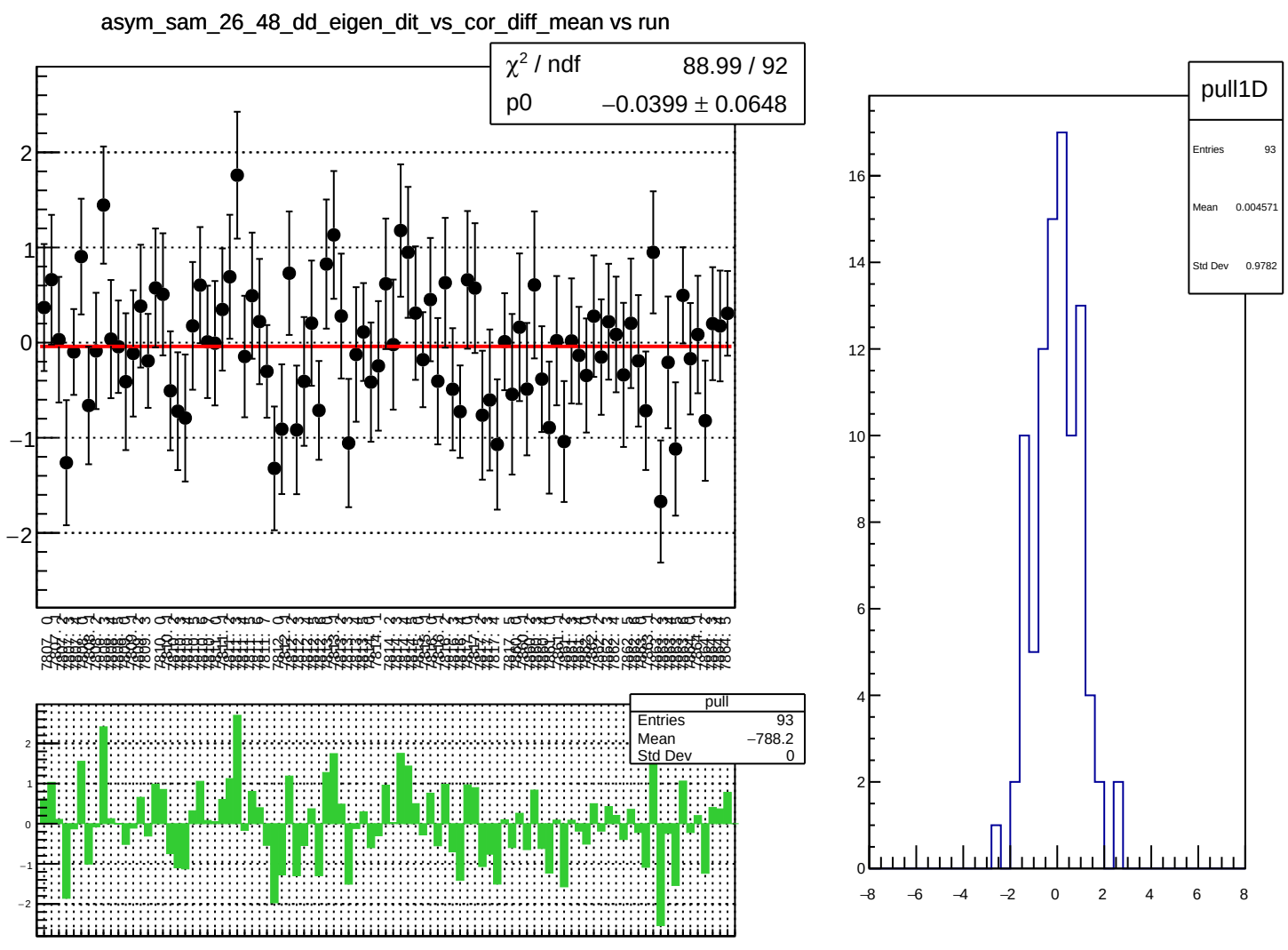

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.99 / 92
p0 −0.0399 ± 0.0648
pull
Entries 93
Mean −788.4
Std Dev 0
pull1D
Entries 93
Mean 0.00457
Std Dev 0.9782

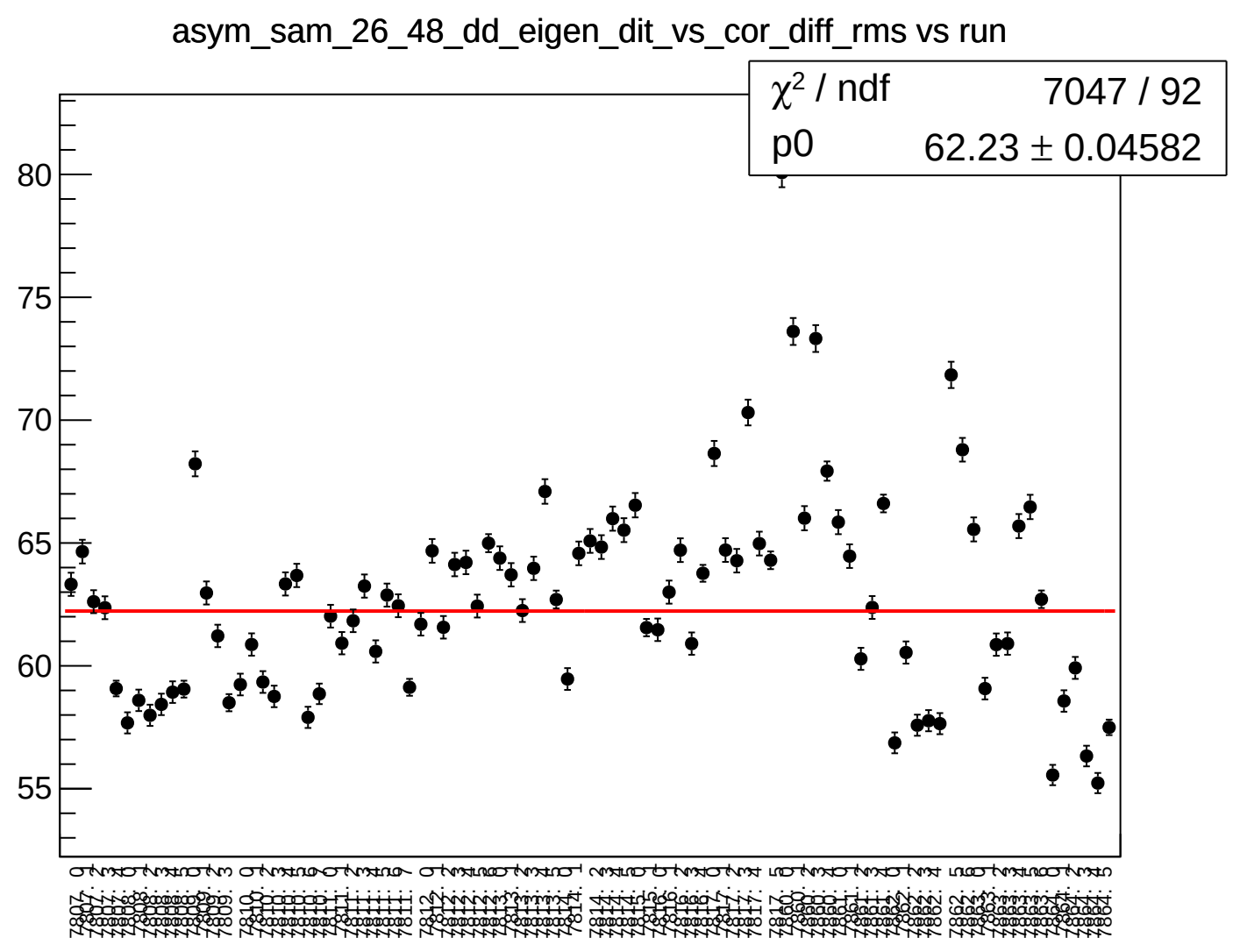

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7047 / 92
p0 62.23 ± 0.04582
80
75
70
65
60
55

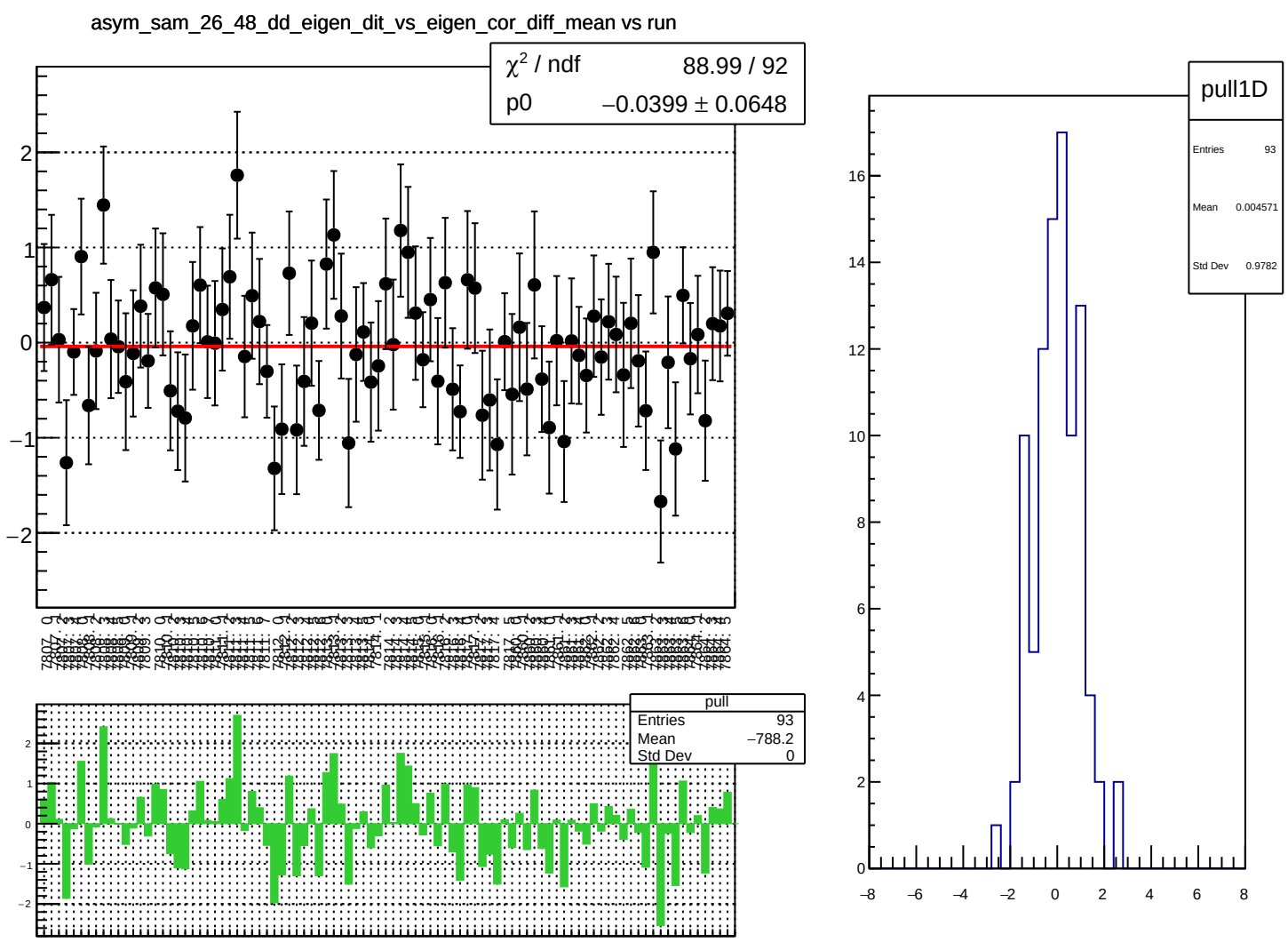

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.36 / 92
p0 1.242e−07 ± 3.217e−06
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 93
Mean −159
Std Dev 0
2
1
0
−1
−2
−3

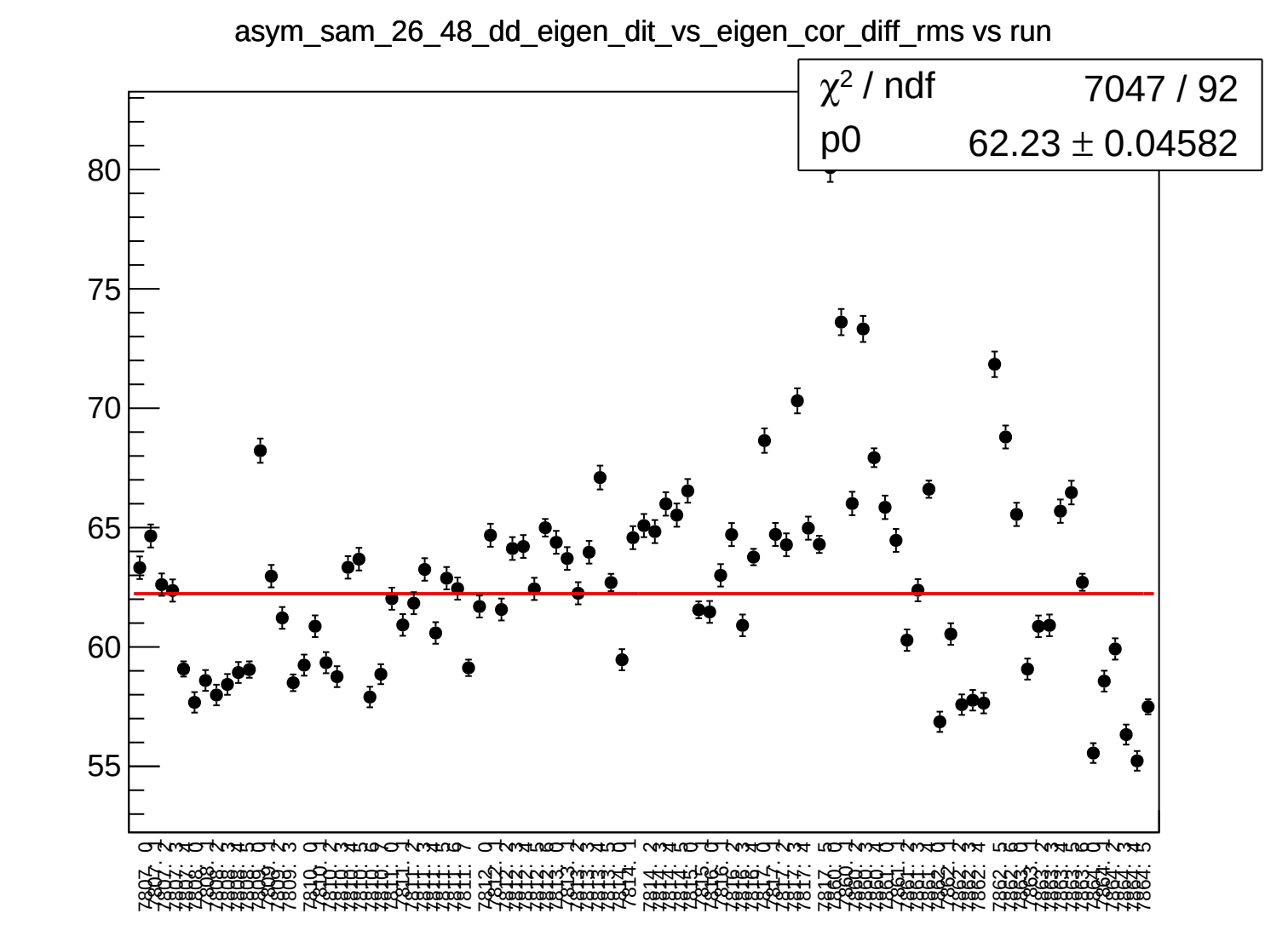

pull1D
Entries 93
Mean −0.009855
Std Dev 0.9692
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

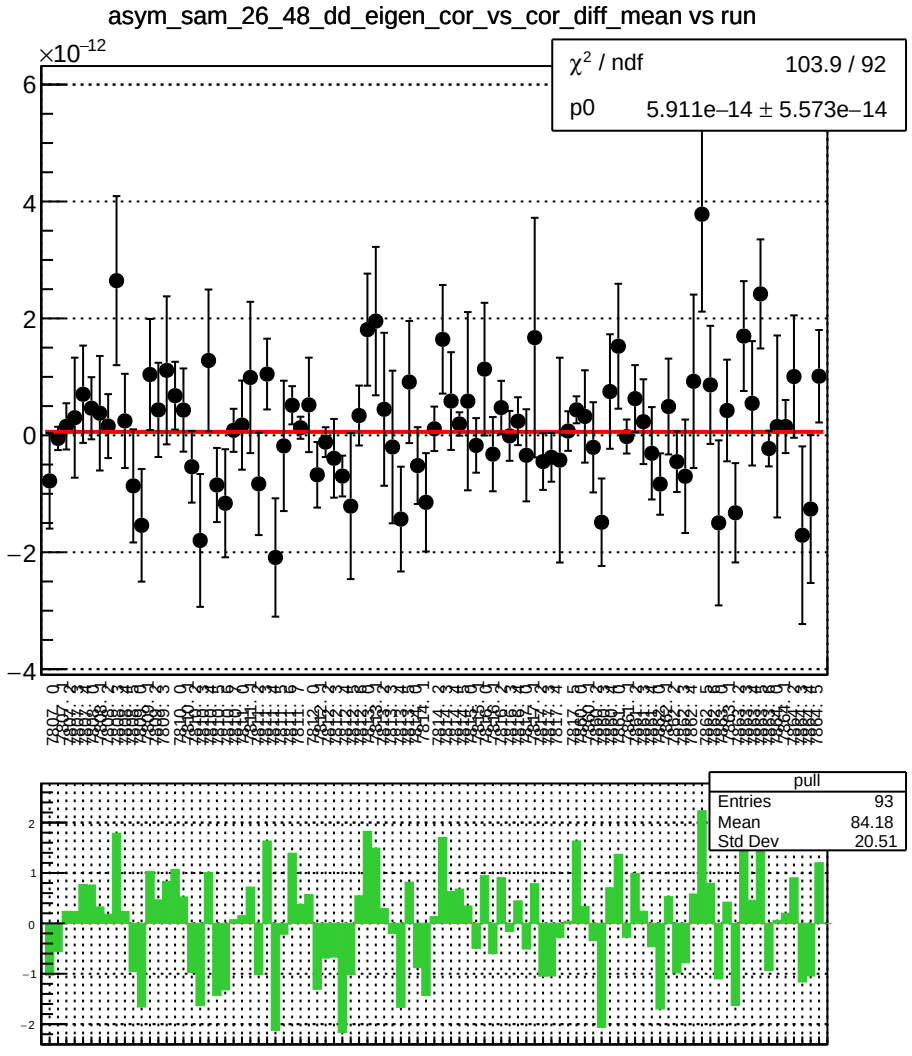

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.277e+05 / 92
p0 0.002715 ± 2.275e−06
0.007
0.006
0.005
0.004
0.003
0.002

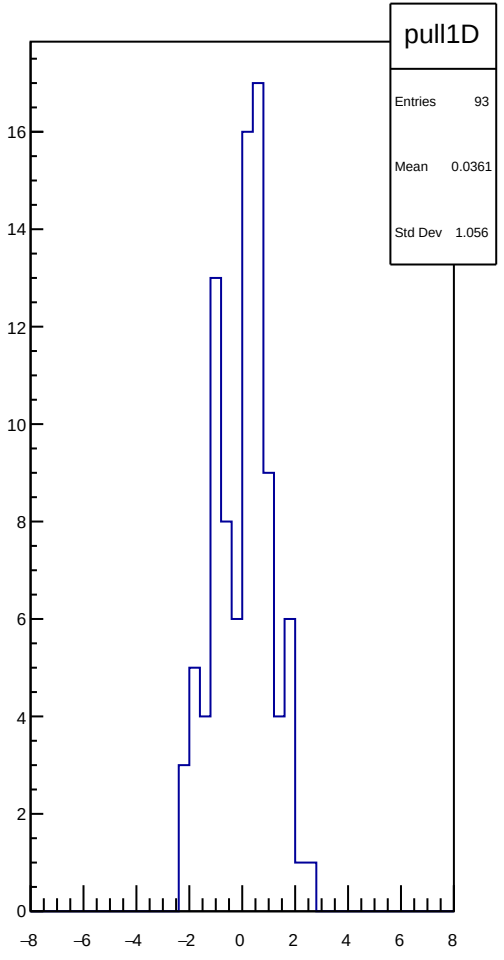

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.99 / 92
p0 −0.0399 ± 0.0648
pull
Entries 93
Mean −788.2
Std Dev 0
pull1D
Entries 93
Mean 0.004571
Std Dev 0.9782

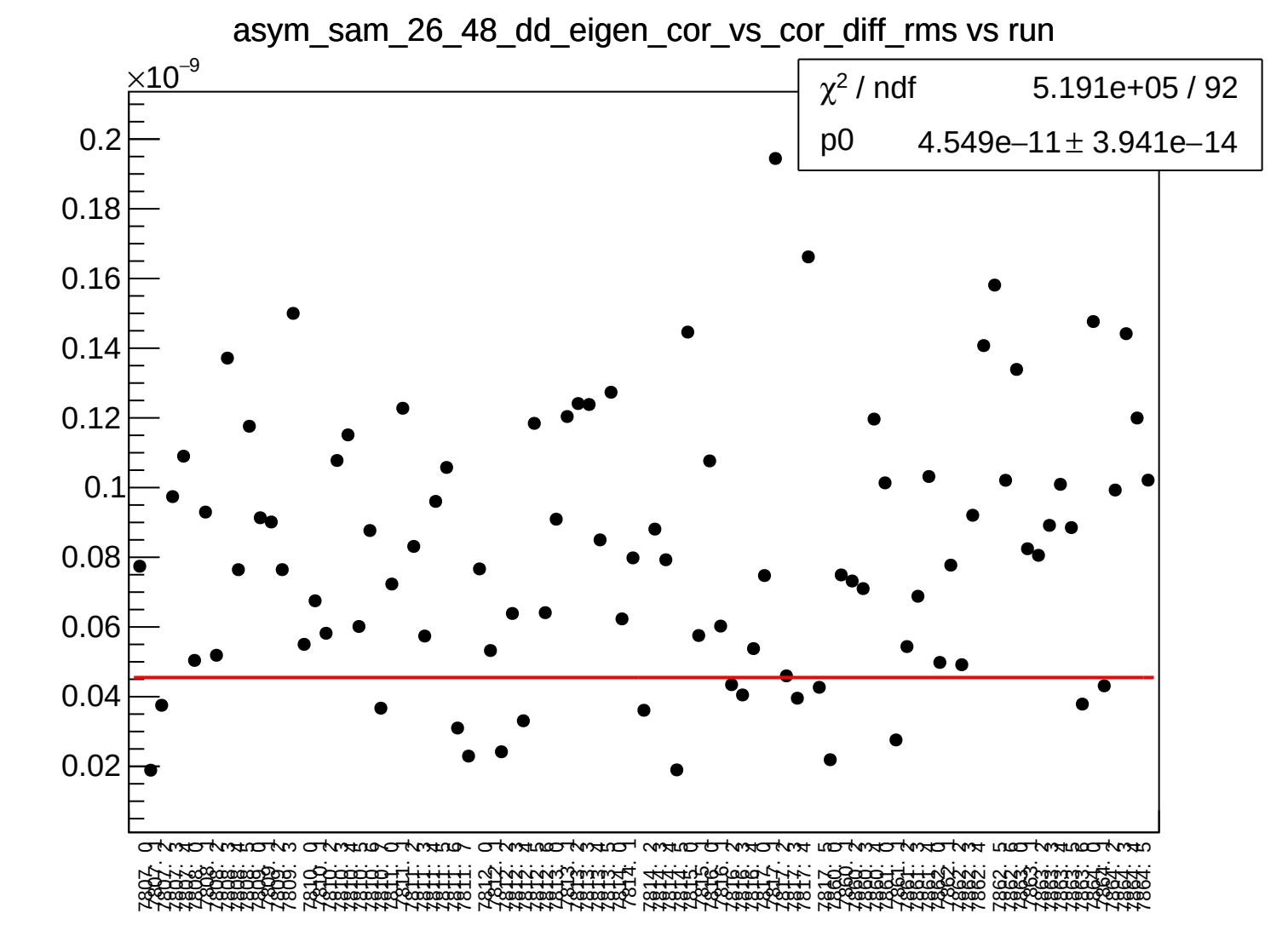

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7047 / 92
p0 62.23 ± 0.04582
80
75
70
65
60
55

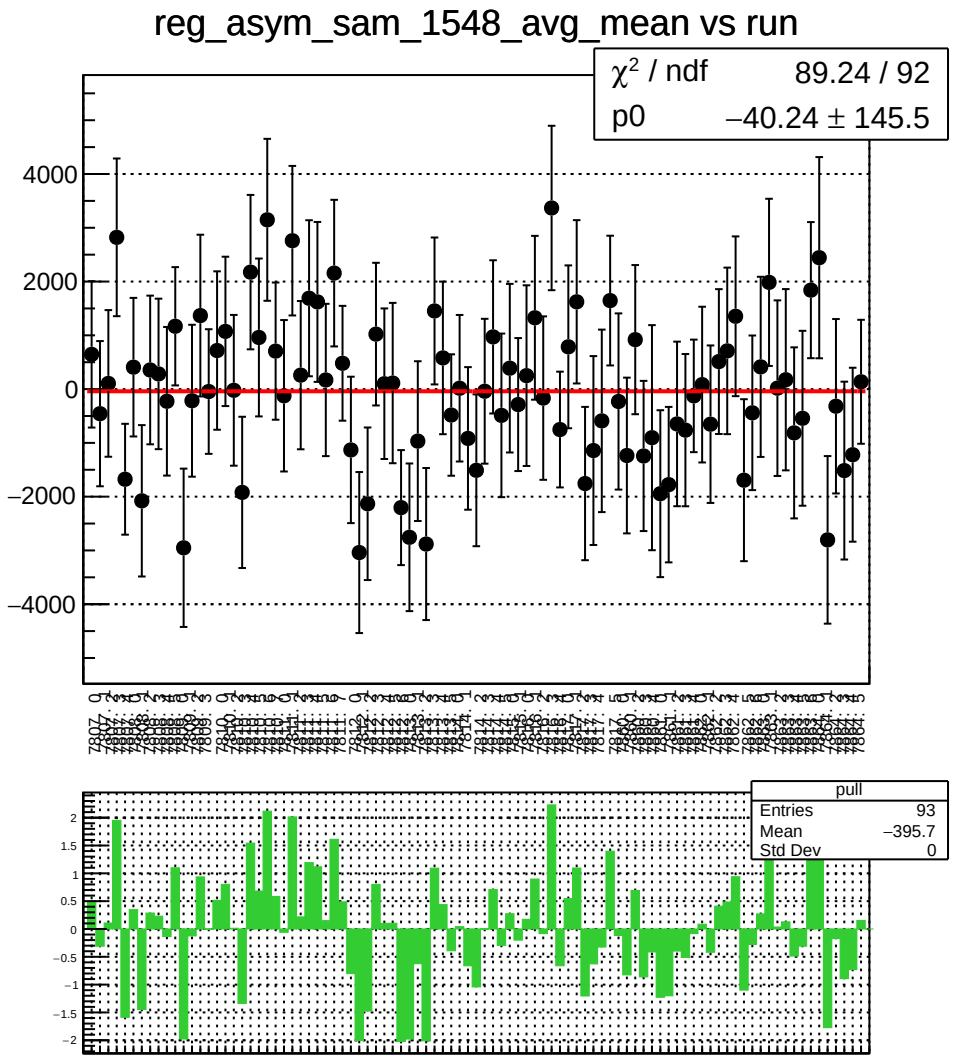

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.99 / 92
p0 −0.0399 ± 0.0648
pull
Entries 93
Mean −788.2
Std Dev 0
pull1D
Entries 93
Mean 0.004571
Std Dev 0.9782

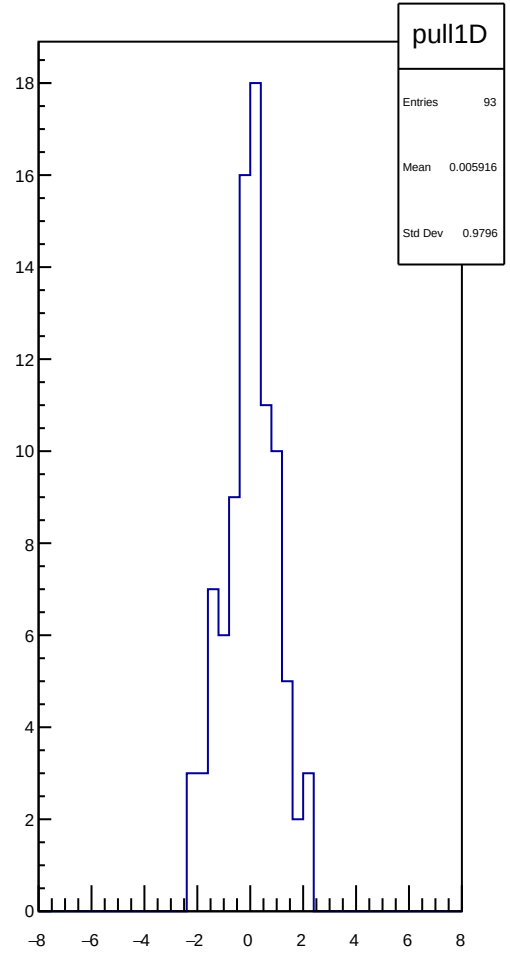

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7047 / 92
p0 62.23 ± 0.04582
80
75
70
65
60
55

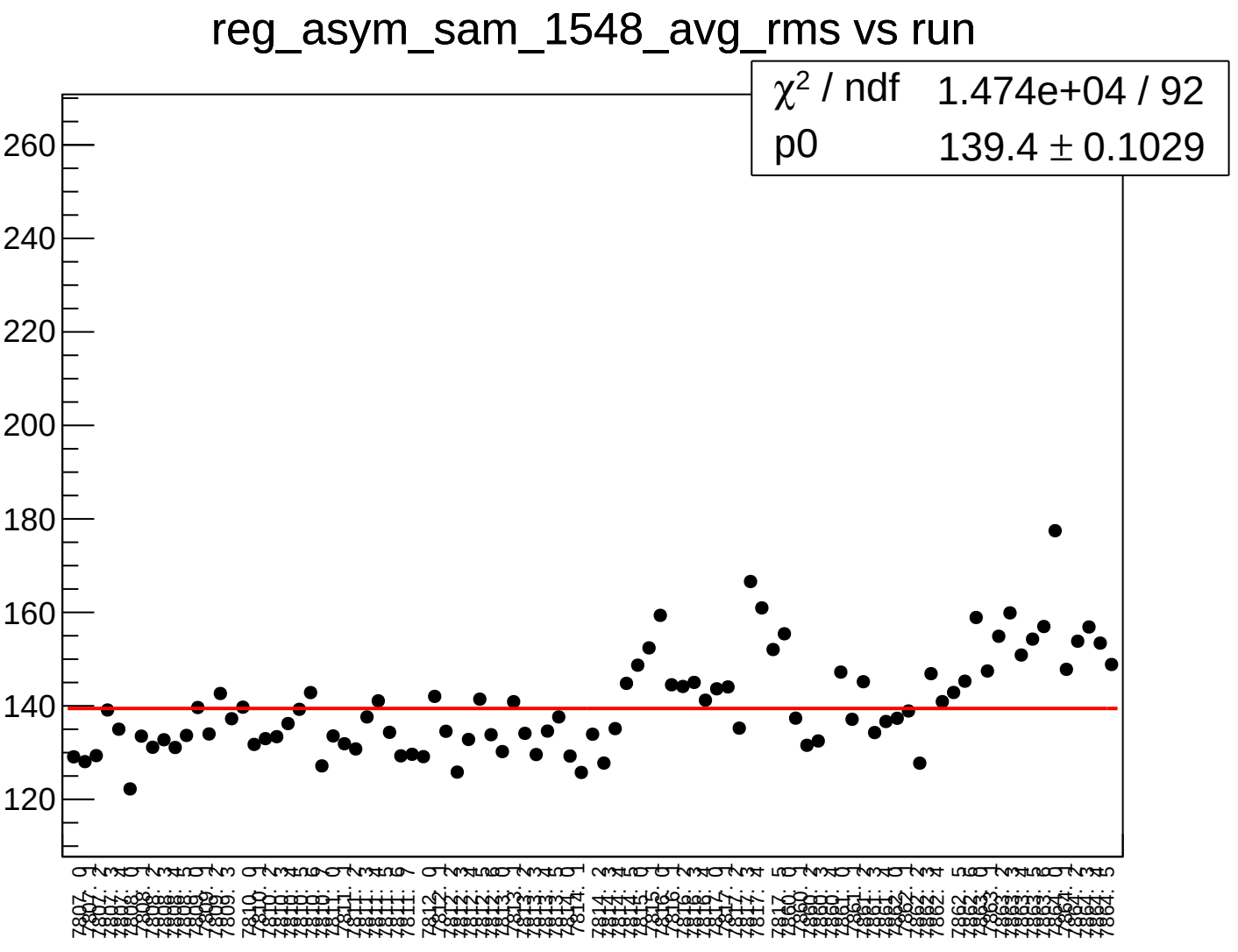

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 103.9 / 92
p0 5.911e−14 ± 5.573e−14
pull
Entries 93
Mean 84.18
Std Dev 20.51

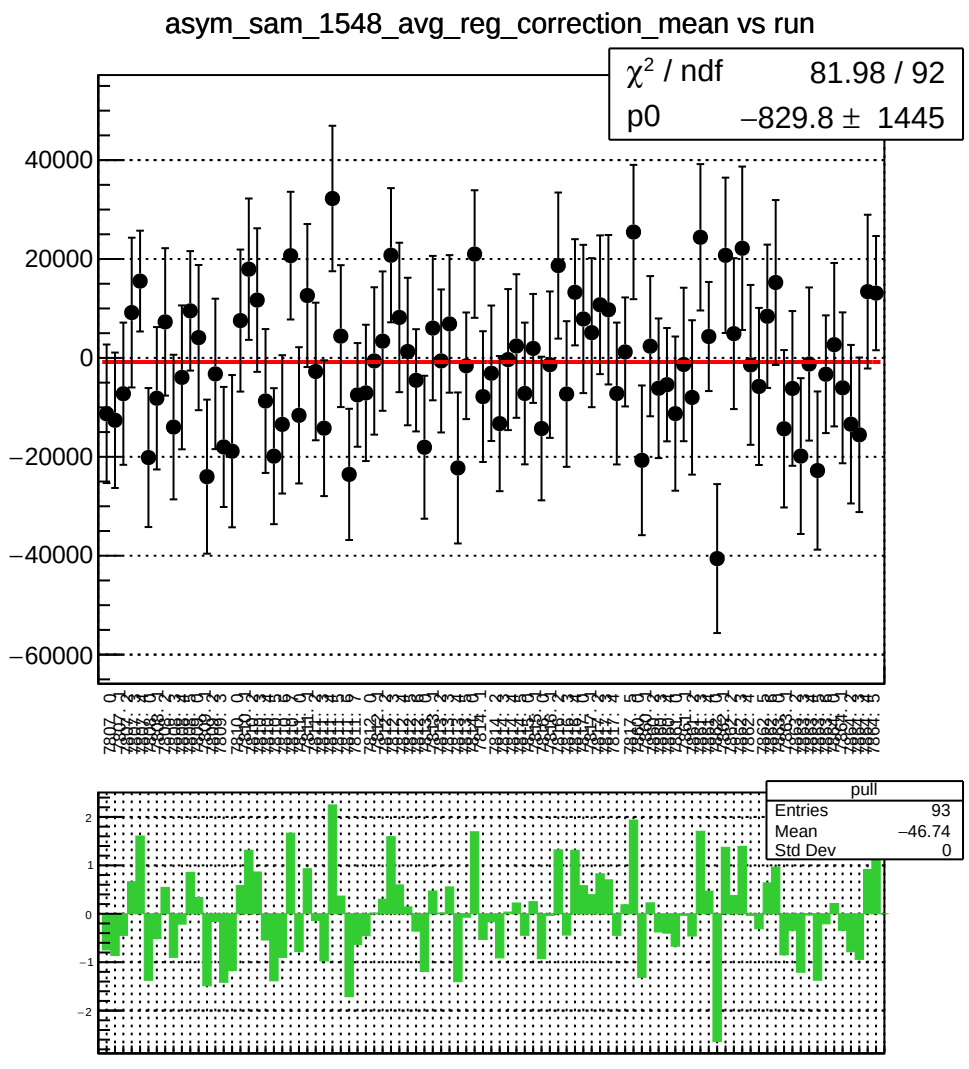

pull1D
Entries 93
Mean 0.0361
Std Dev 1.056

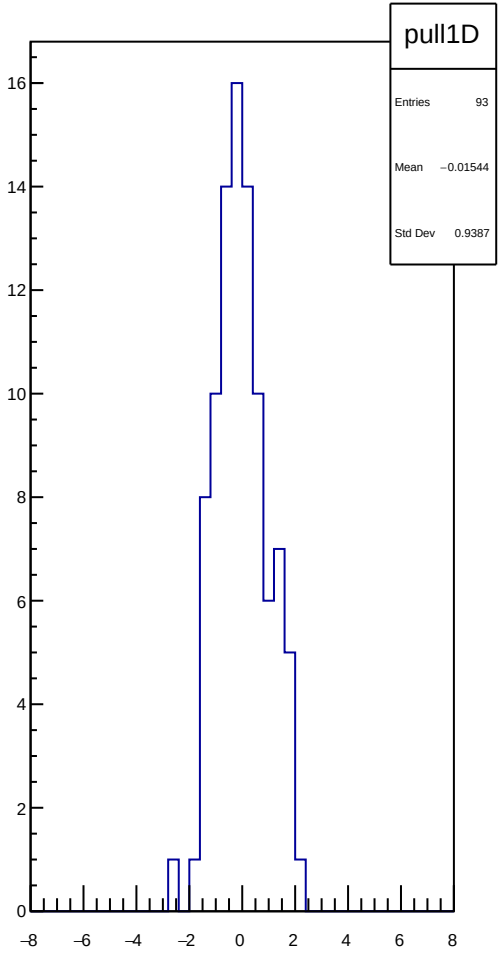

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.191e+05 / 92
p0 4.549e−11 ± 3.941e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

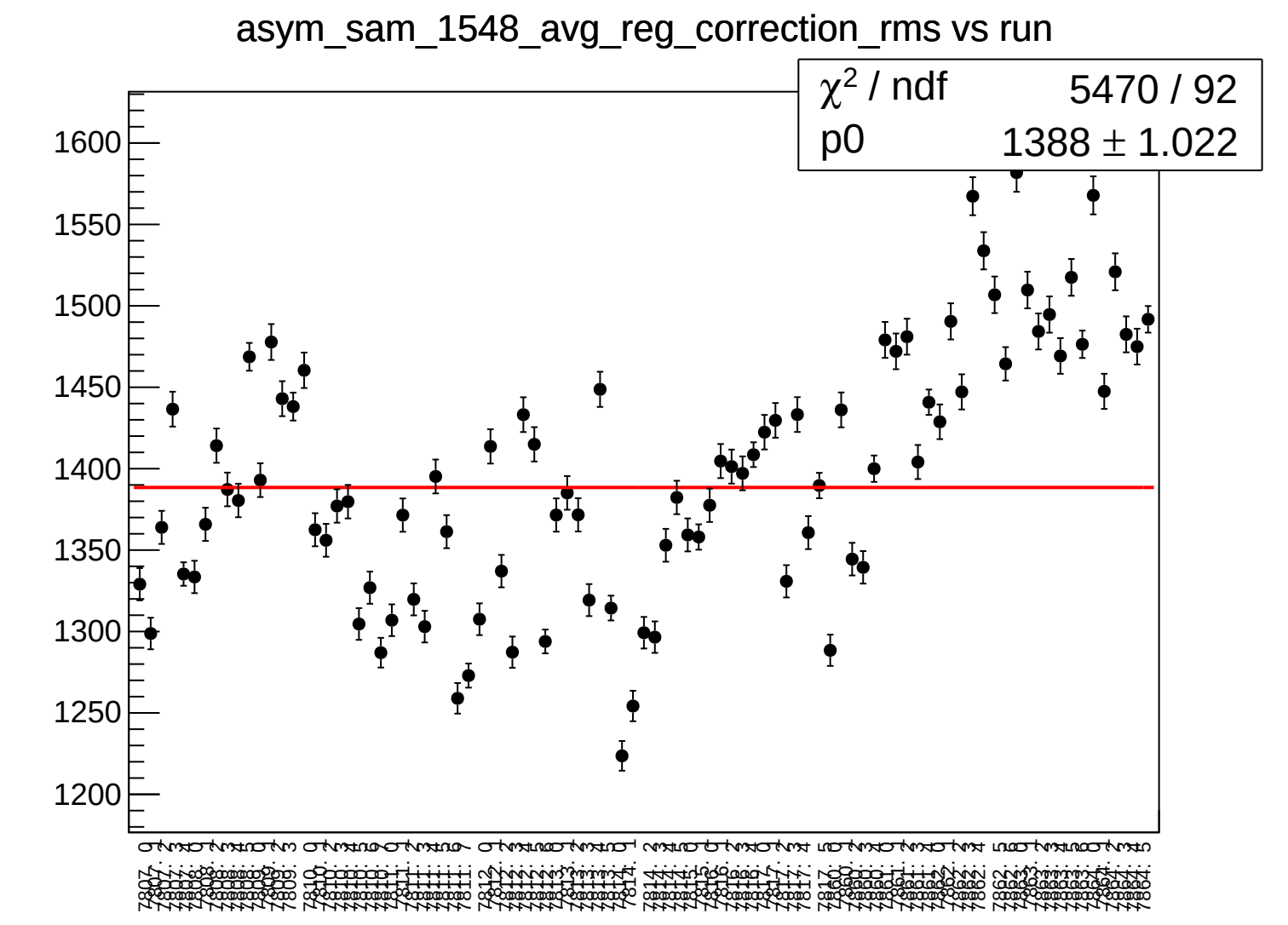

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 89.24 / 92
p0 −40.24 ± 145.5
4000
2000
0
−2000
−4000
pull
Entries 93
Mean −395.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

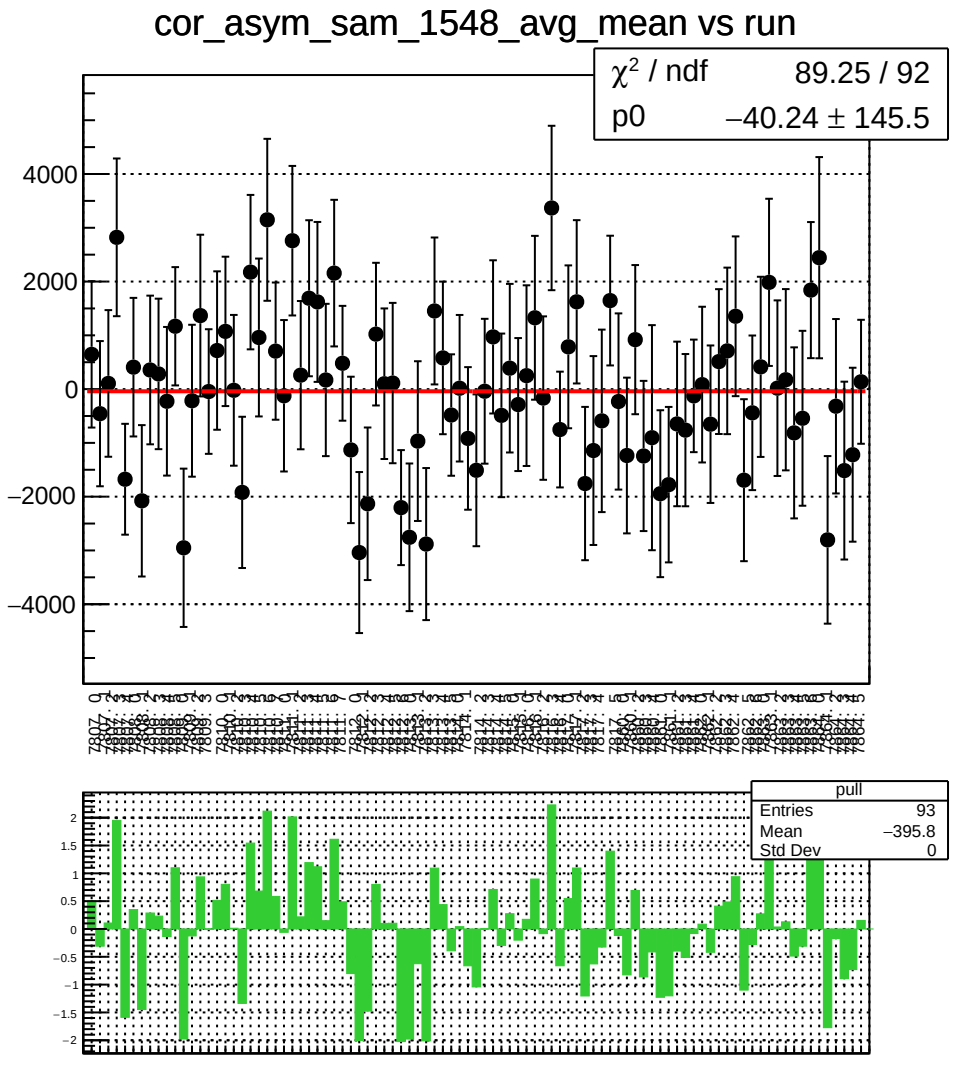

pull1D
Entries 93
Mean 0.005916
Std Dev 0.9796
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

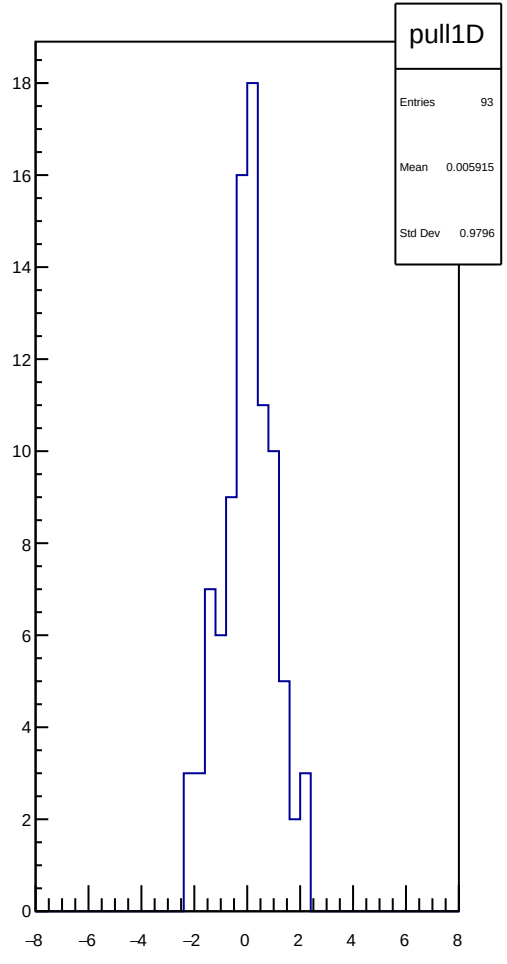

reg_asym_sam_1548_avg_rms vs run
χ² / ndf 1.474e+04 / 92
p0 139.4 ± 0.1029
260
240
220
200
180
160
140
120

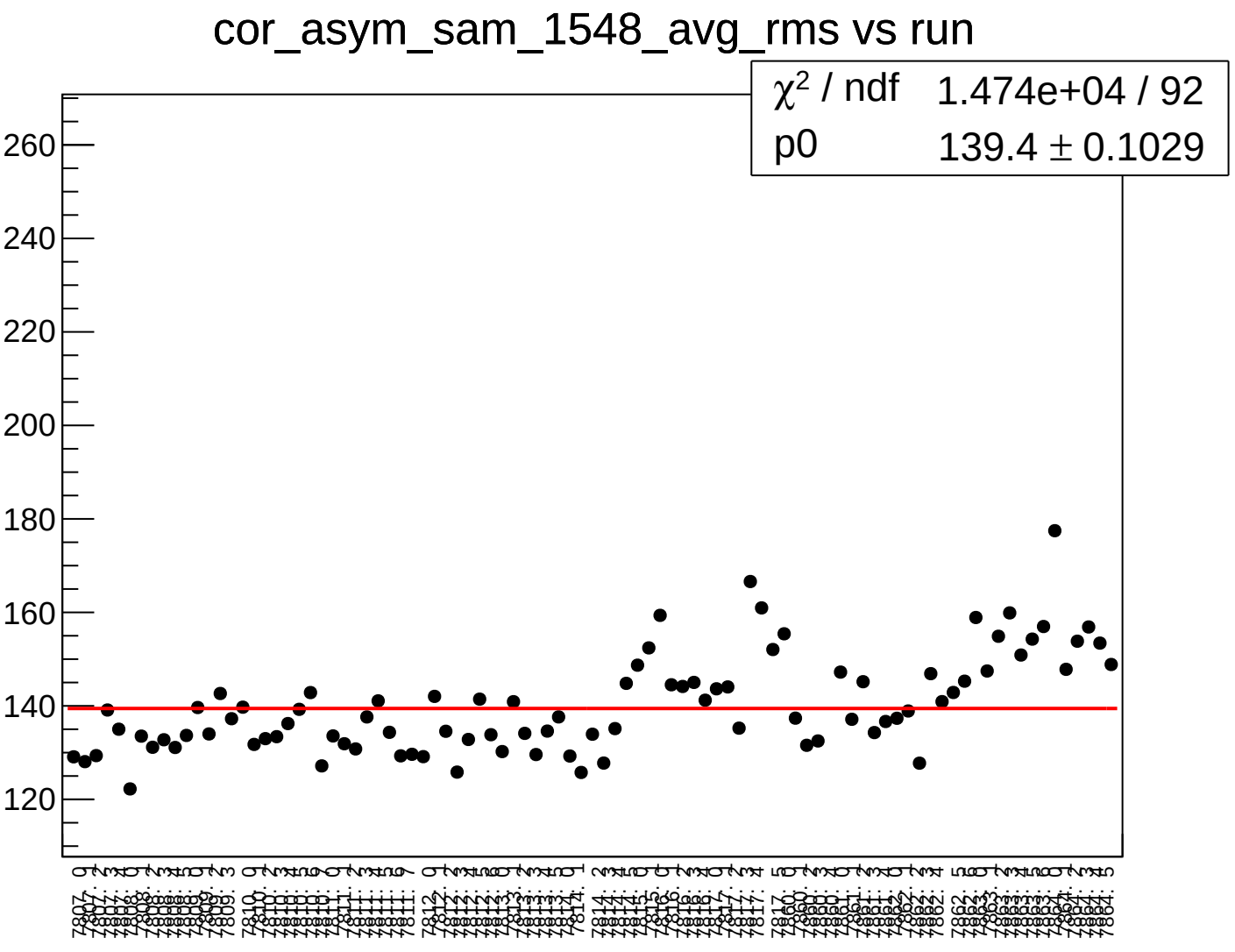

asym_sam_1548_avg_reg_correction_mean vs run
χ² / ndf 81.98 / 92
p0 −829.8 ± 1445
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −46.74
Std Dev 0
2
1
0
−1
−2

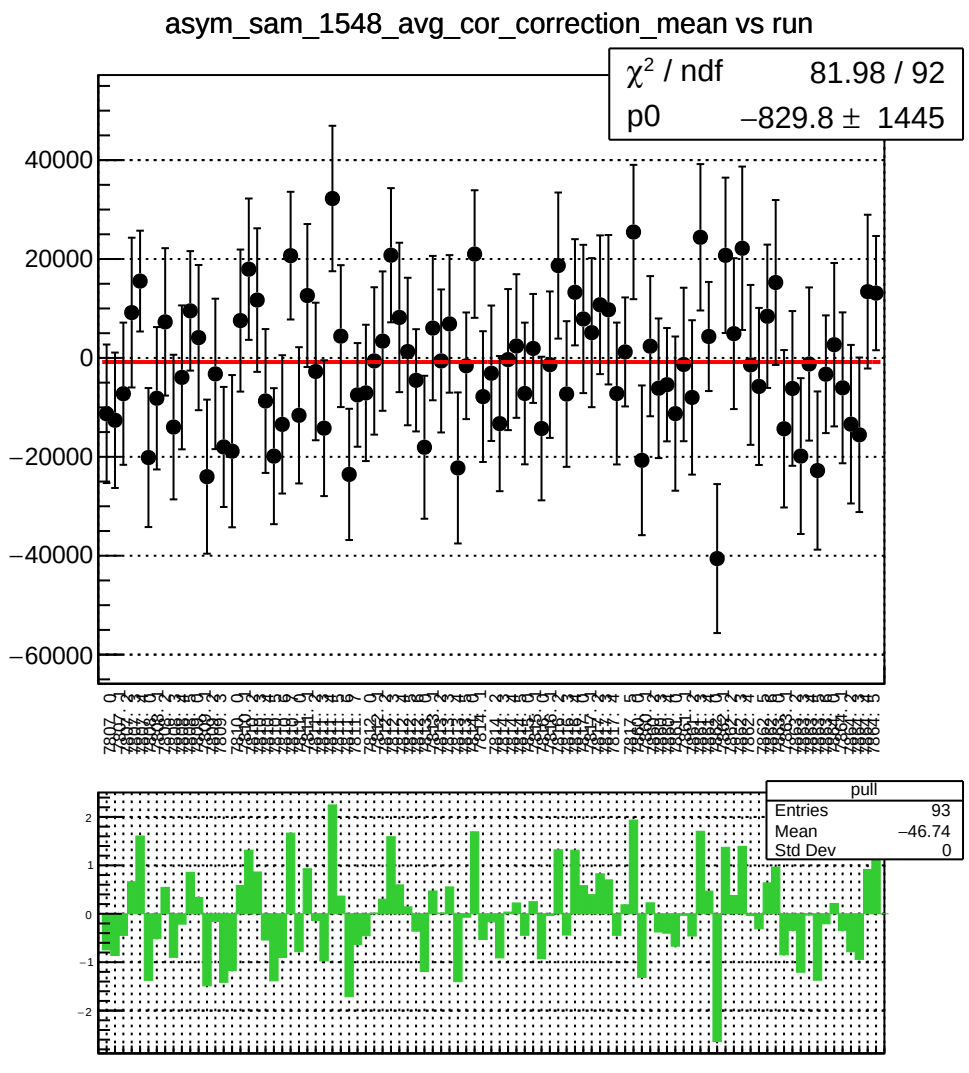

pull1D
Entries 93
Mean −0.01544
Std Dev 0.9387
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

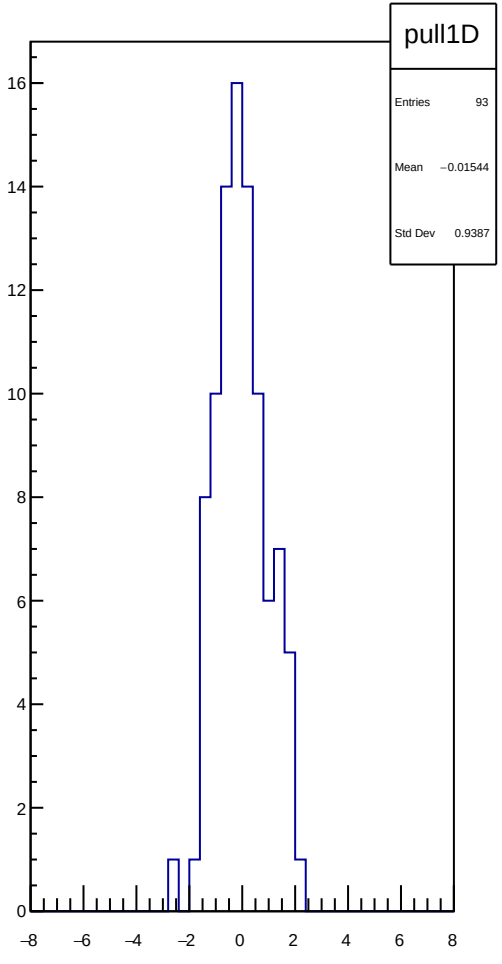

asym_sam_1548_avg_reg_correction_rms vs run
χ² / ndf 5470 / 92
p0 1388 ± 1.022
1600
1550
1500
1450
1400
1350
1300
1250
1200

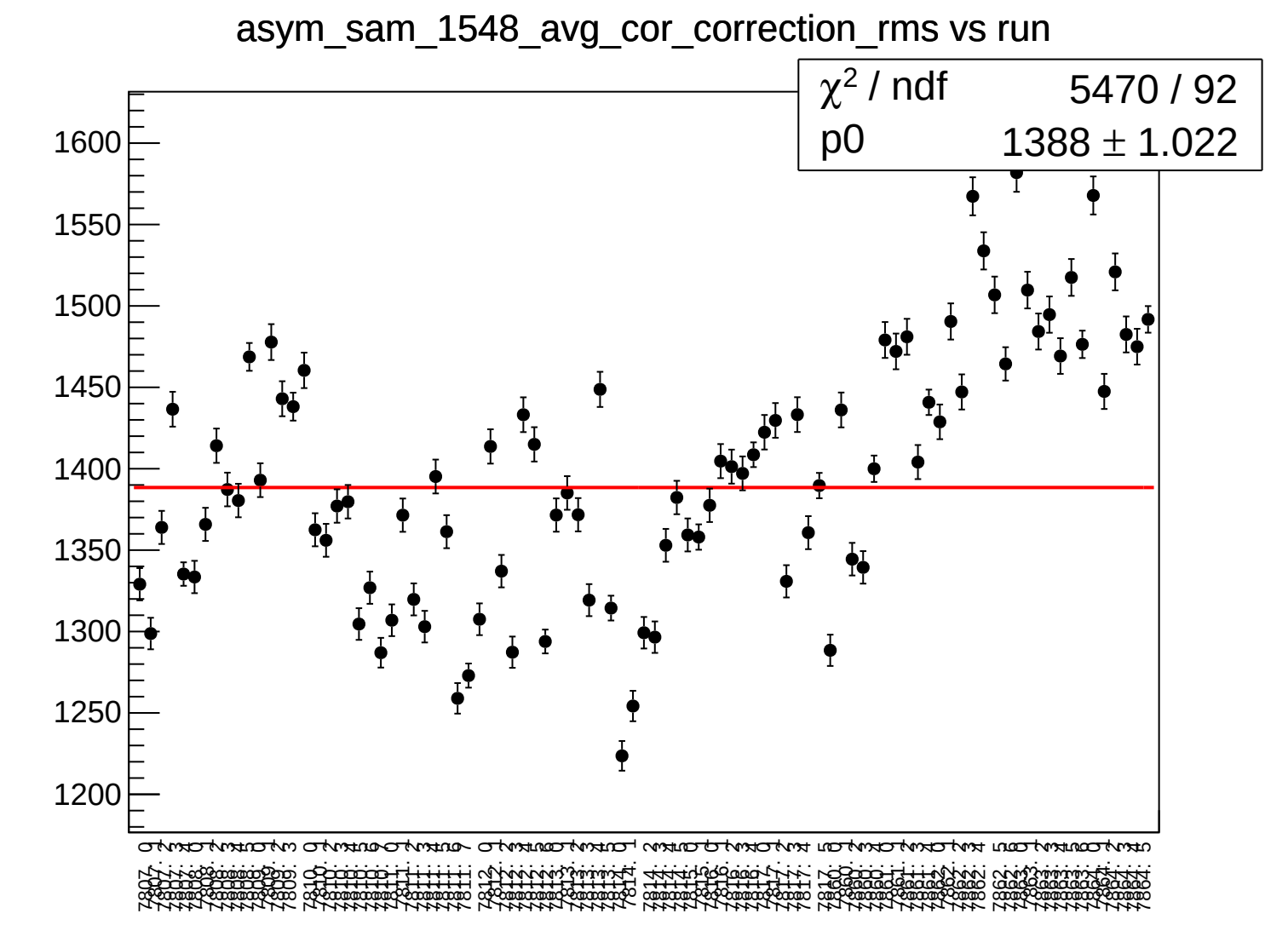

cor_asym_sam_1548_avg_mean vs run
χ² / ndf 89.25 / 92
p0 −40.24 ± 145.5
4000
2000
0
−2000
−4000
pull
Entries 93
Mean −395.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

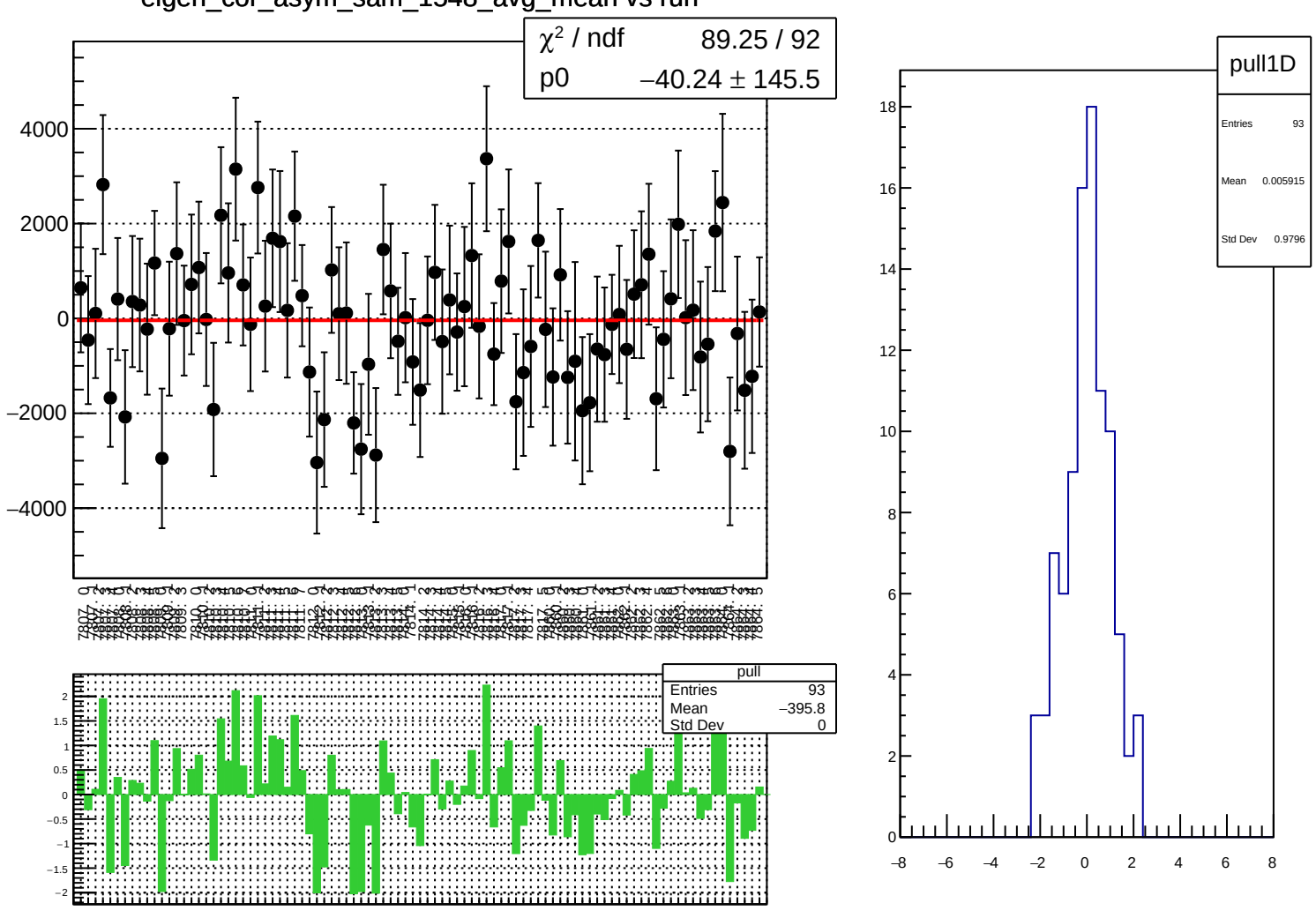

pull1D
Entries 93
Mean 0.005915
Std Dev 0.9796
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

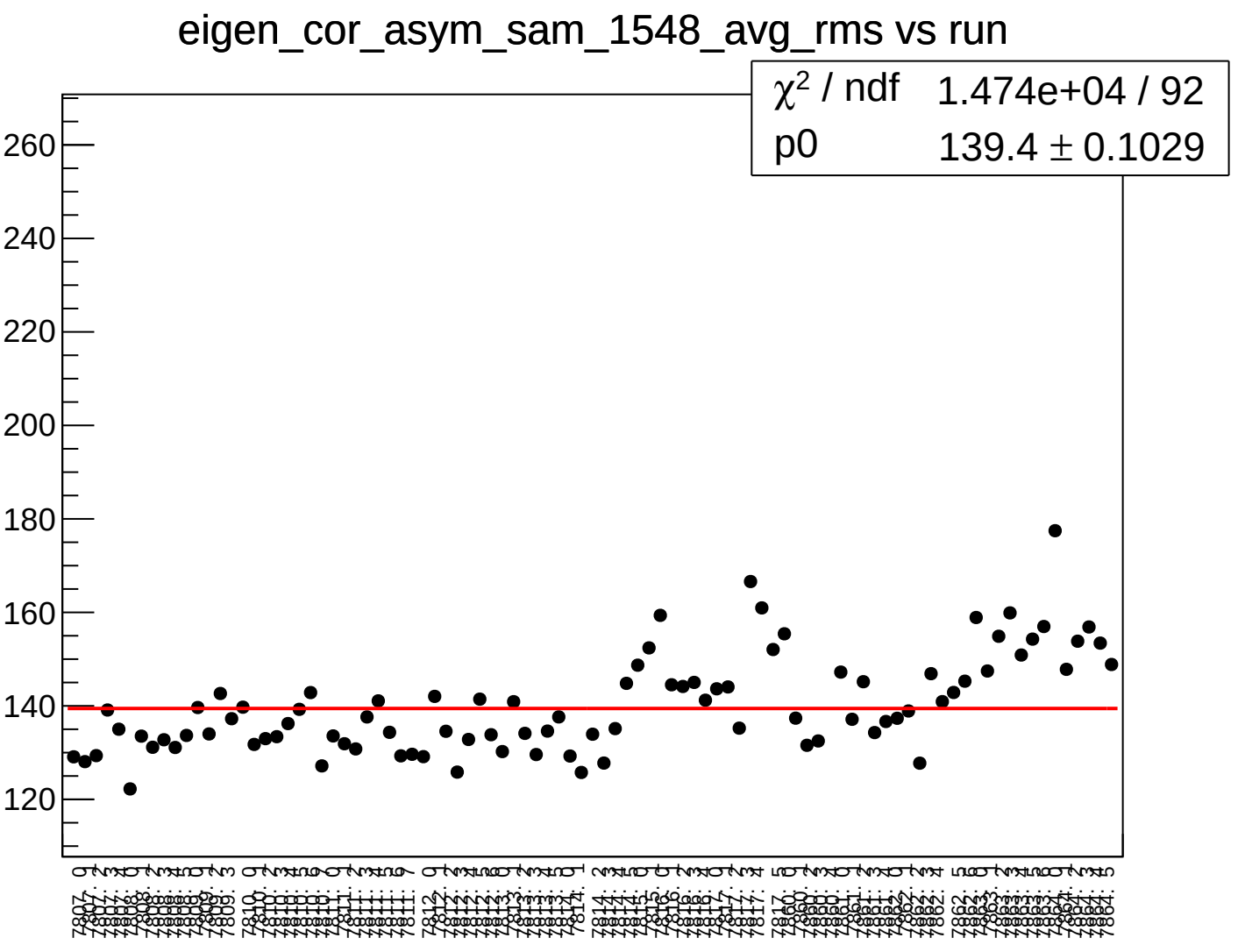

cor_asym_sam_1548_avg_rms vs run
χ² / ndf 1.474e+04 / 92
p0 139.4 ± 0.1029
260
240
220
200
180
160
140
120

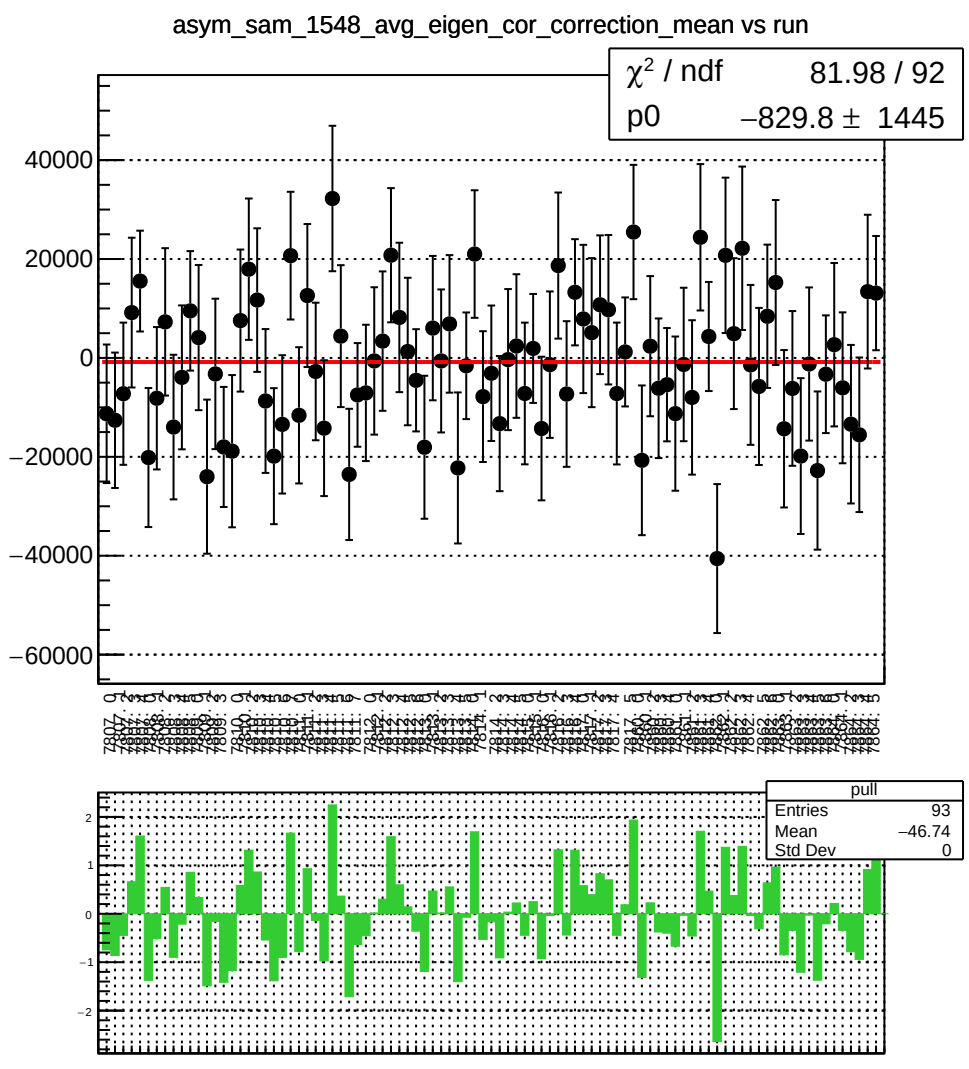

asym_sam_1548_avg_cor_correction_mean vs run
χ² / ndf 81.98 / 92
p0 −829.8 ± 1445
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −46.74
Std Dev 0
2
1
0
−1
−2

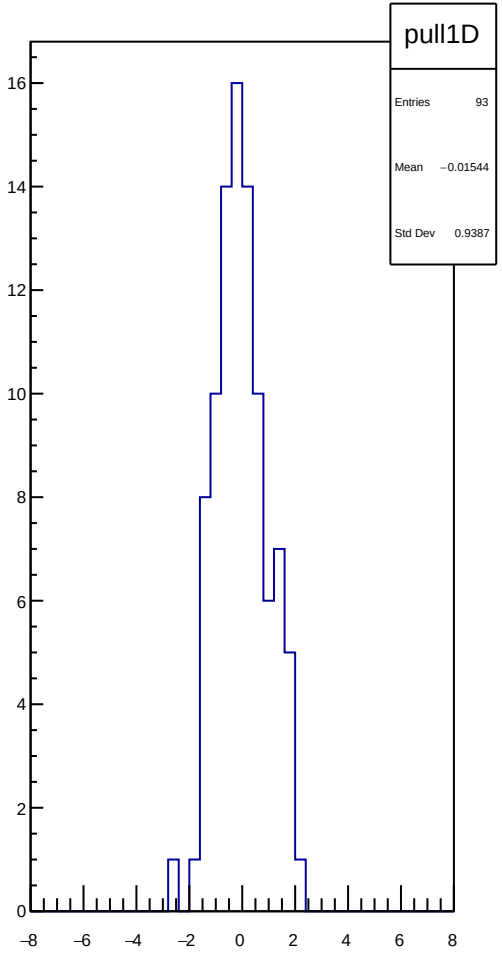

pull1D
Entries 93
Mean −0.01544
Std Dev 0.9387
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

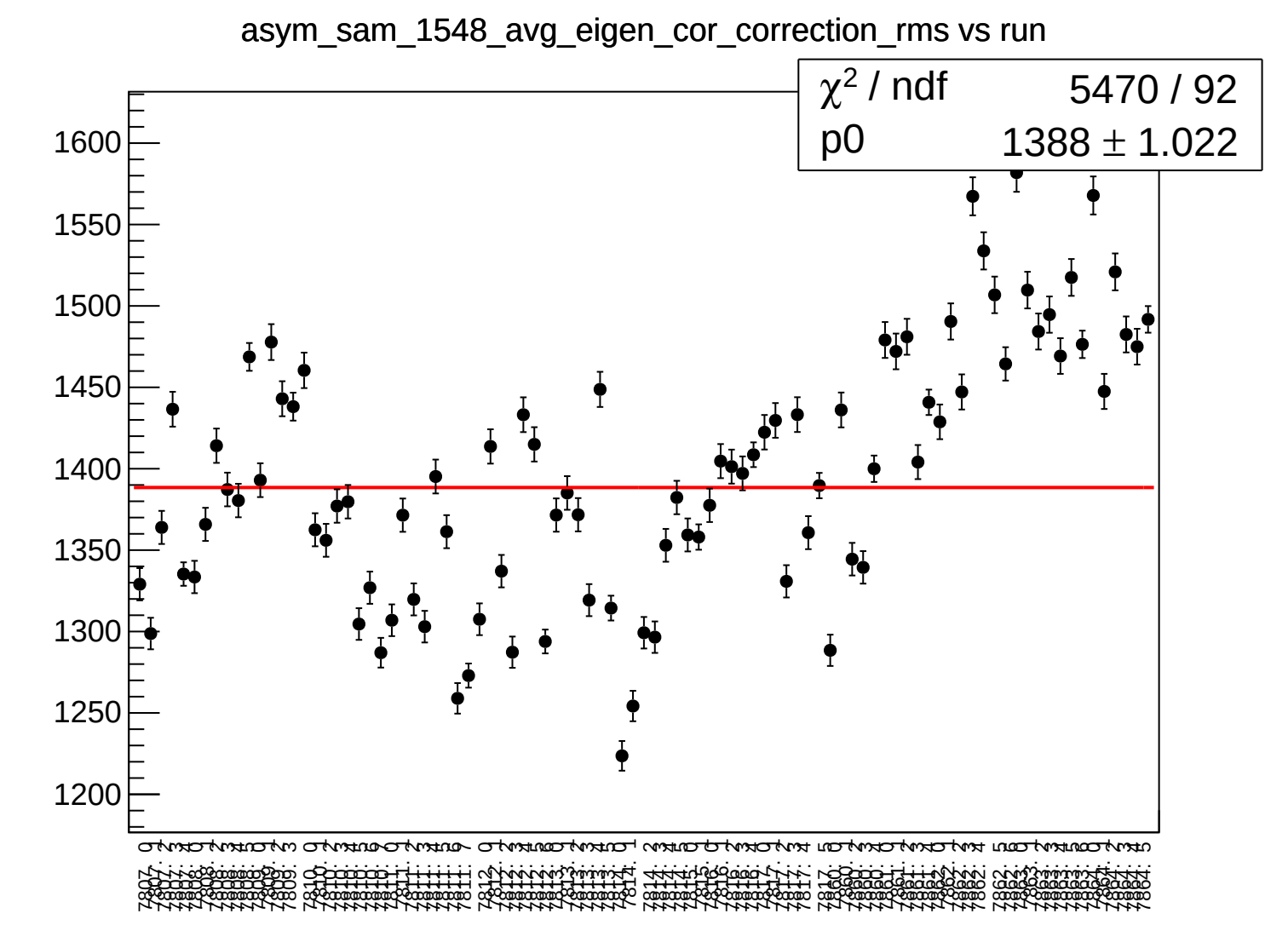

asym_sam_1548_avg_cor_correction_rms vs run
χ² / ndf 5470 / 92
p0 1388 ± 1.022
1600
1550
1500
1450
1400
1350
1300
1250
1200

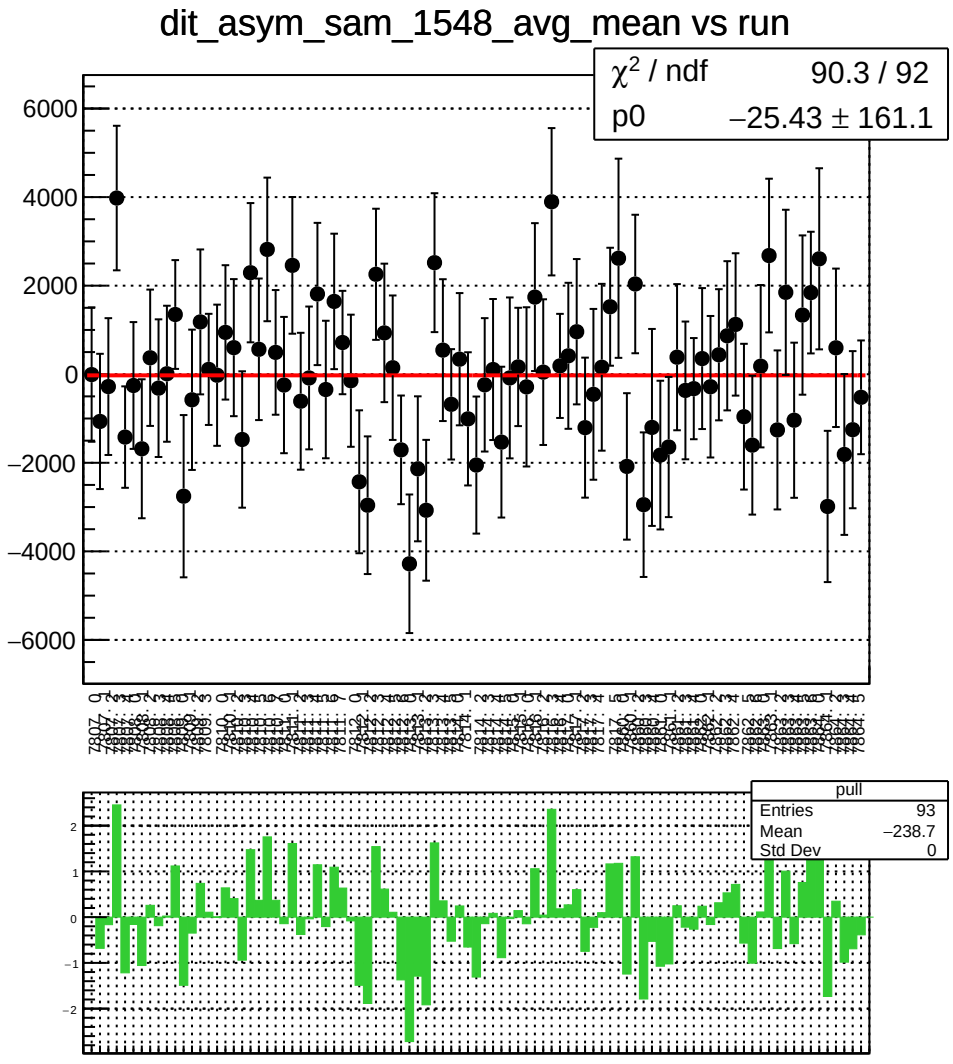

eigen_cor_asym_sam_1548_avg_mean vs run
χ² / ndf 89.25 / 92
p0 −40.24 ± 145.5
4000
2000
0
−2000
−4000
pull
Entries 93
Mean −395.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean 0.005915
Std Dev 0.9796
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

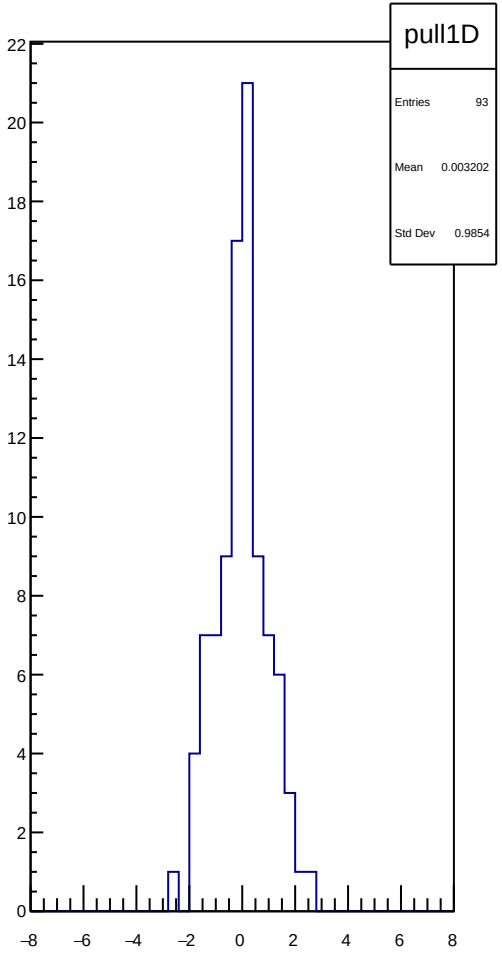

eigen_cor_asym_sam_1548_avg_rms vs run
χ² / ndf 1.474e+04 / 92
p0 139.4 ± 0.1029
260
240
220
200
180
160
140
120

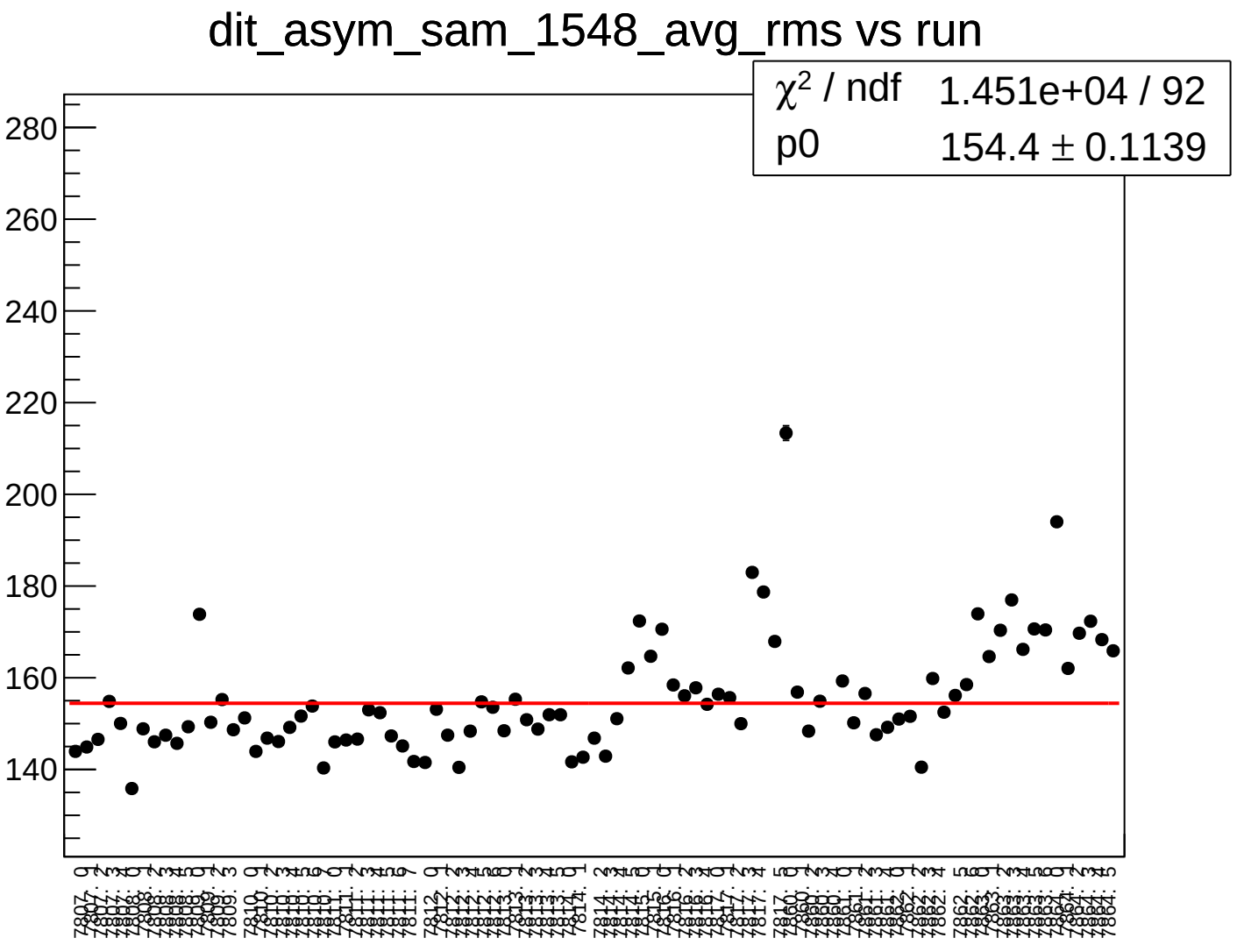

asym_sam_1548_avg_eigen_cor_correction_mean vs run
χ² / ndf 81.98 / 92
p0 −829.8 ± 1445
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −46.74
Std Dev 0
2
1
0
−1
−2

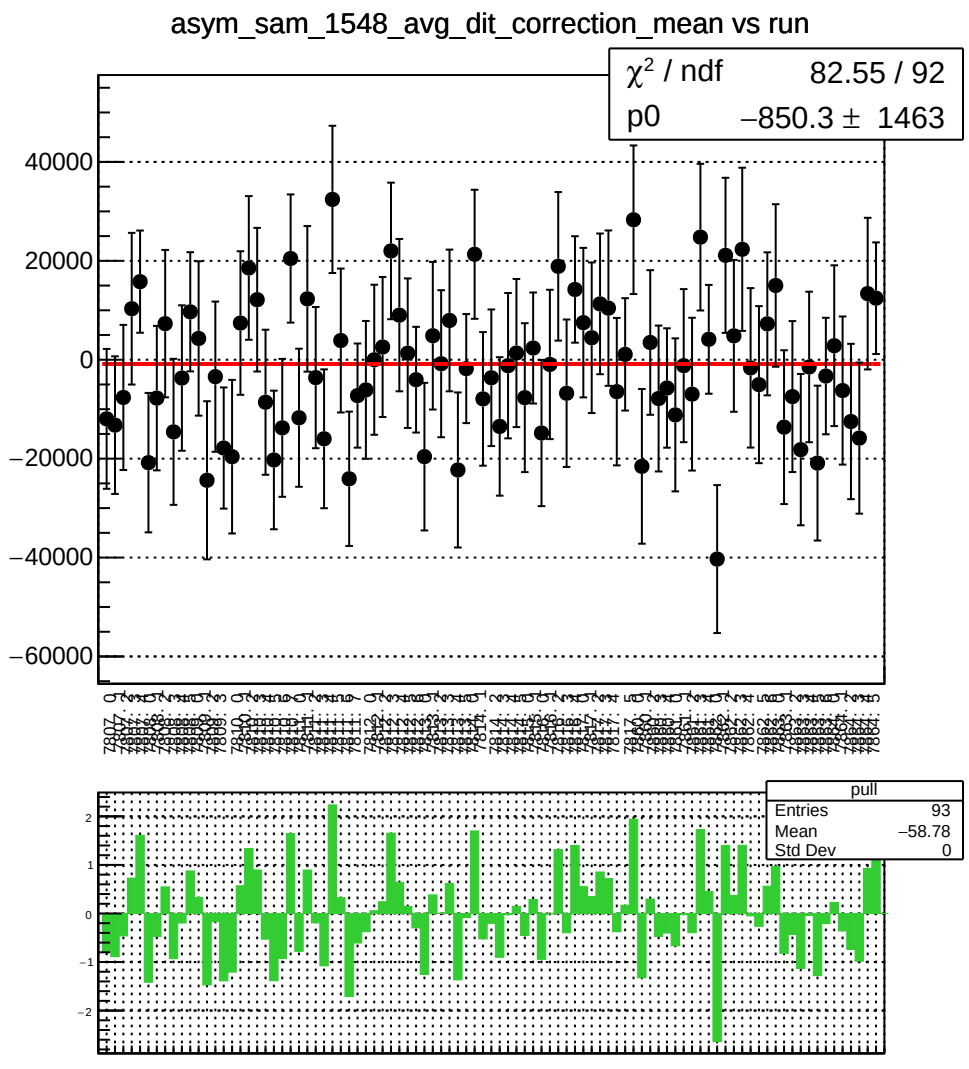

pull1D
Entries 93
Mean −0.01544
Std Dev 0.9387
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

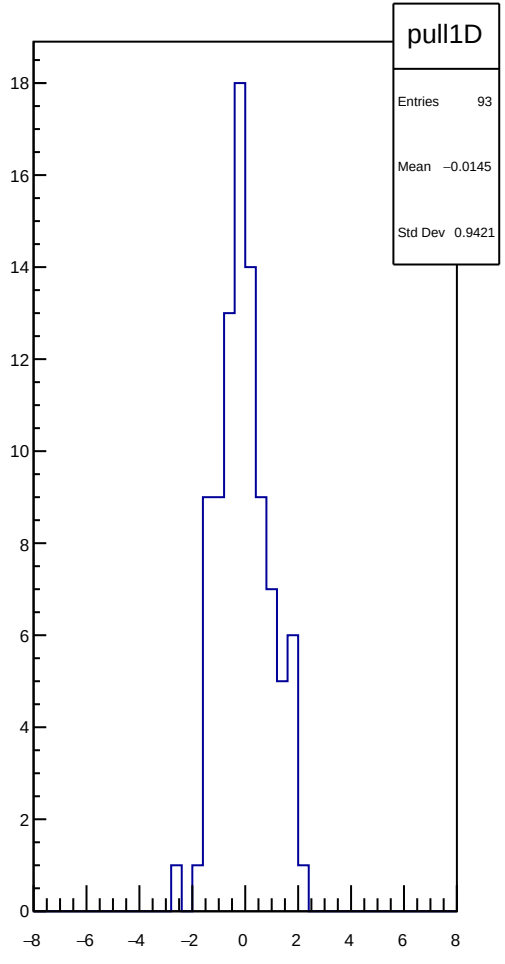

asym_sam_1548_avg_eigen_cor_correction_rms vs run
χ² / ndf 5470 / 92
p0 1388 ± 1.022
1600
1550
1500
1450
1400
1350
1300
1250
1200

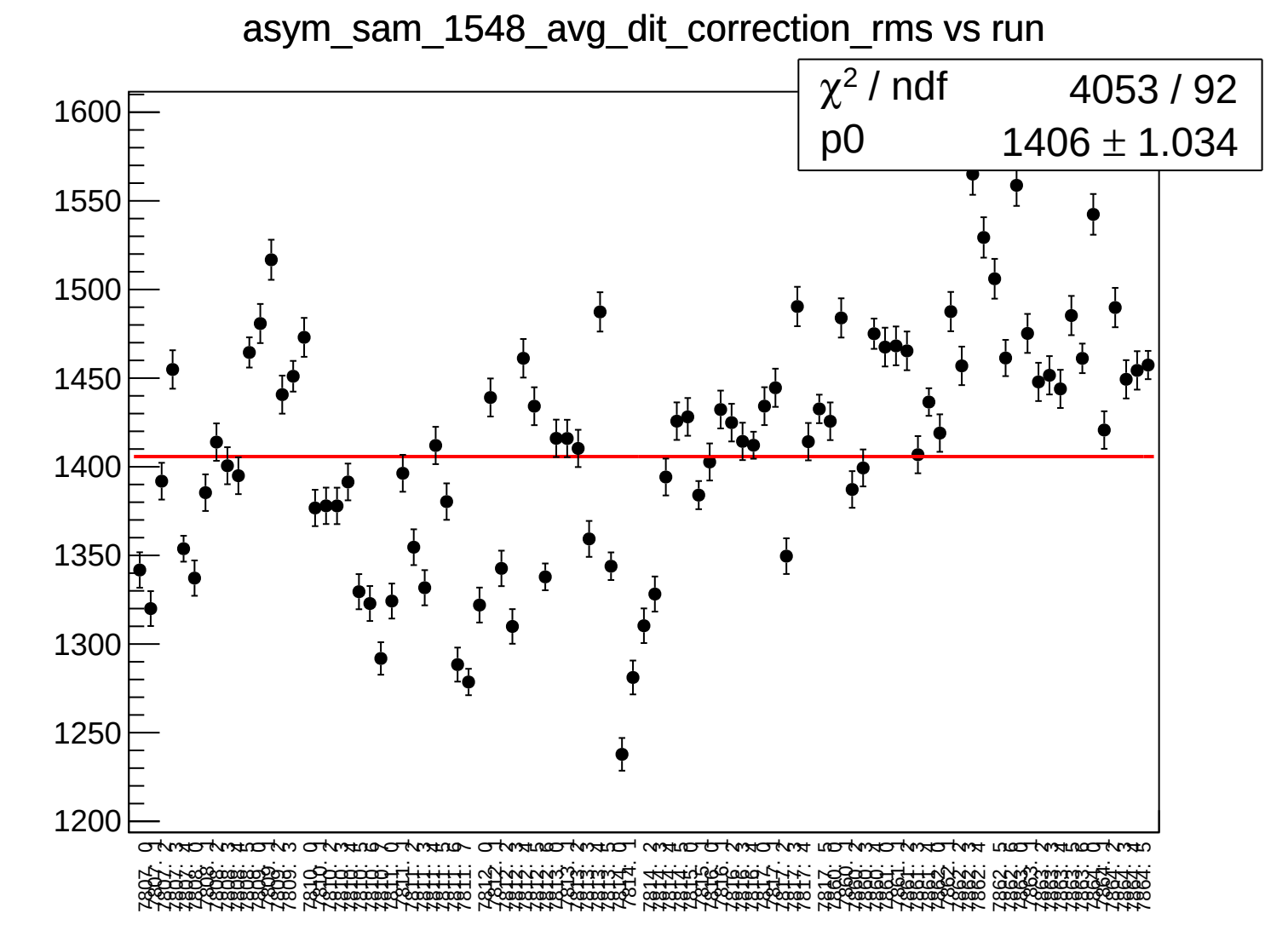

dit_asym_sam_1548_avg_mean vs run
χ² / ndf 90.3 / 92
p0 −25.43 ± 161.1
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean −238.7
Std Dev 0
2
1
0
−1
−2

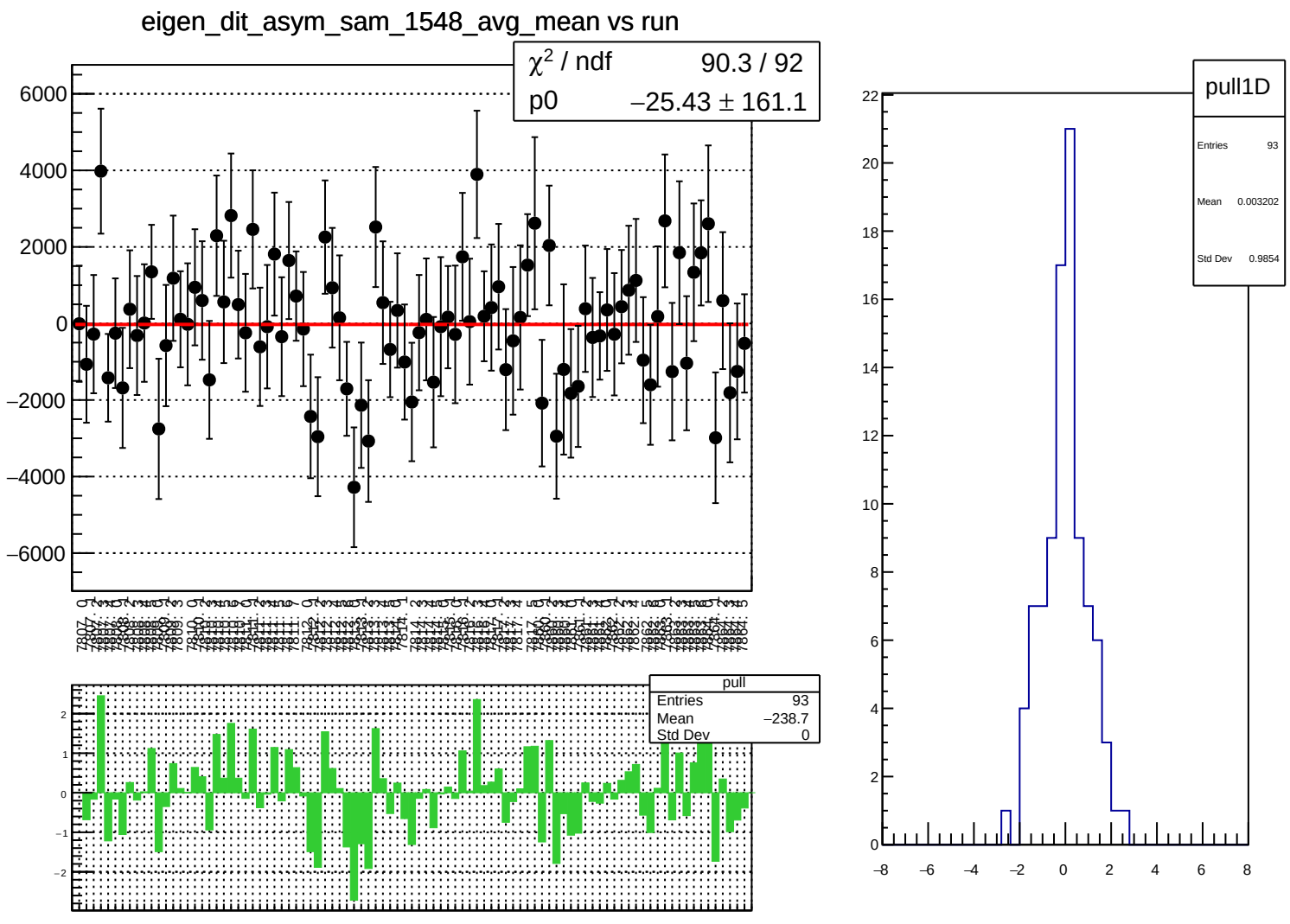

pull1D
Entries 93
Mean 0.003202
Std Dev 0.9854
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

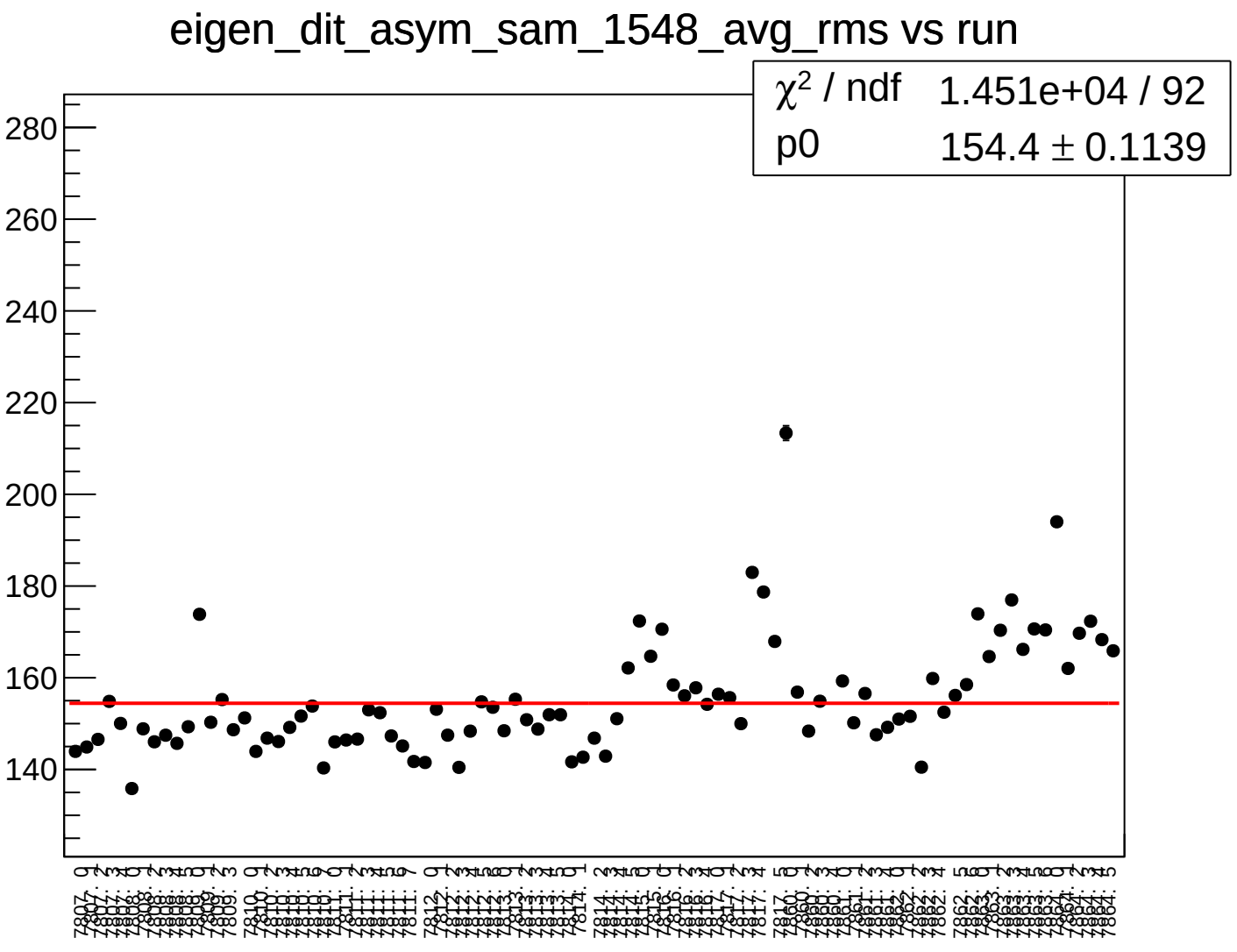

dit_asym_sam_1548_avg_rms vs run
χ² / ndf 1.451e+04 / 92
p0 154.4 ± 0.1139
280
260
240
220
200
180
160
140

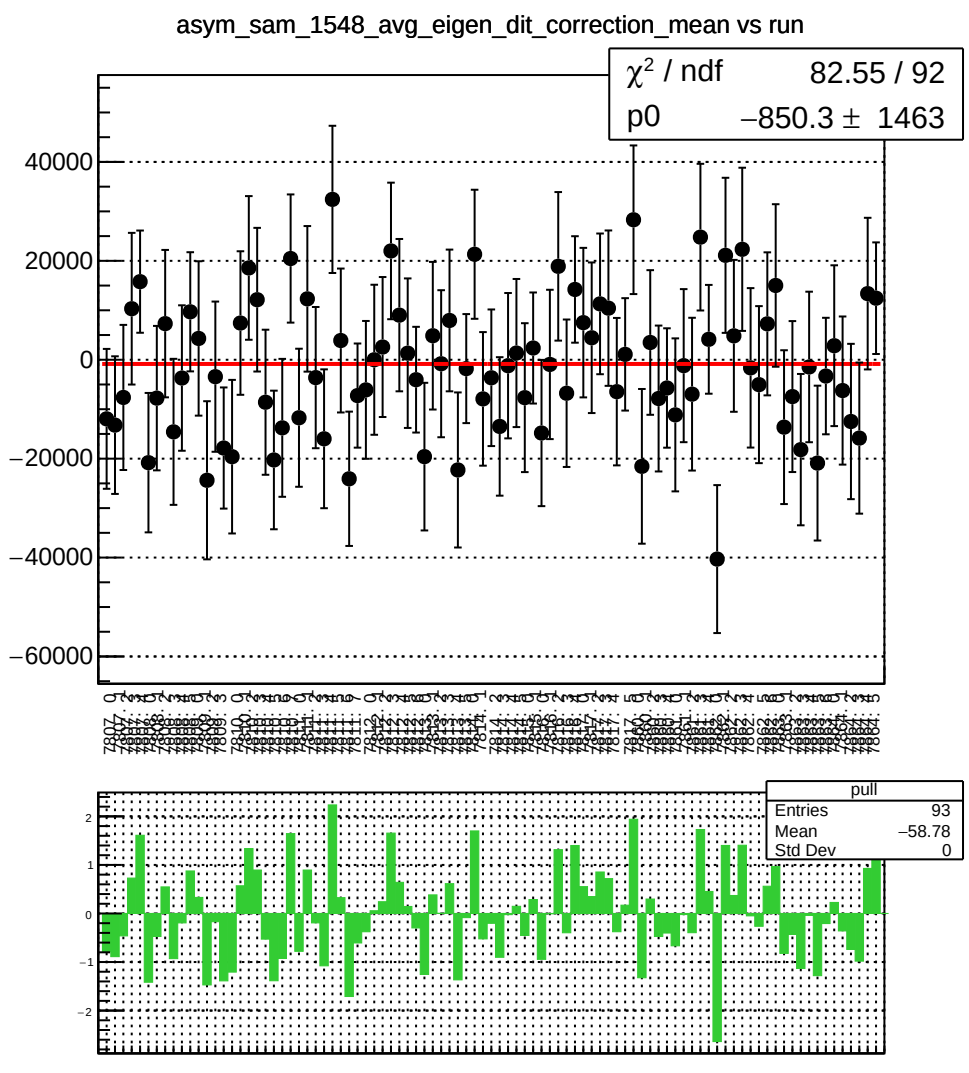

asym_sam_1548_avg_dit_correction_mean vs run
χ² / ndf 82.55 / 92
p0 −850.3 ± 1463
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −58.78
Std Dev 0
2
1
0
−1
−2

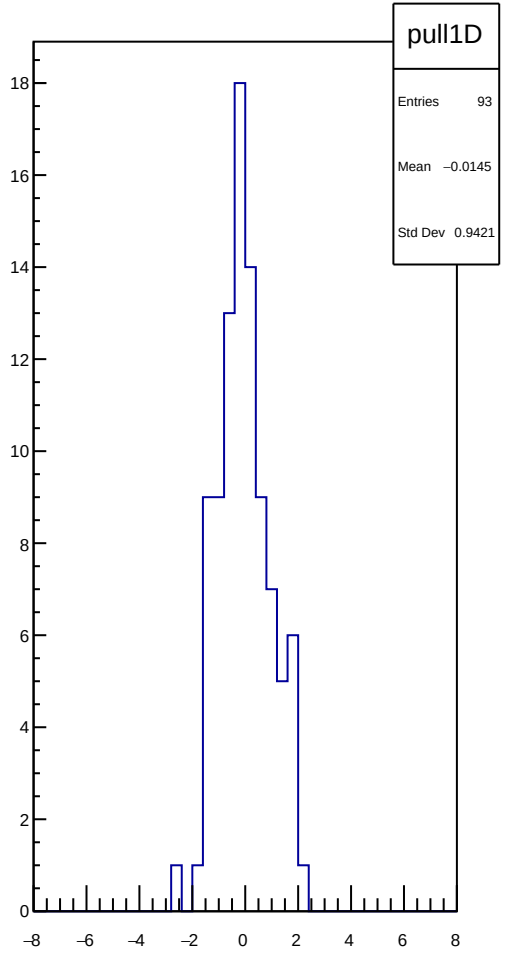

pull1D
Entries 93
Mean −0.0145
Std Dev 0.9421
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

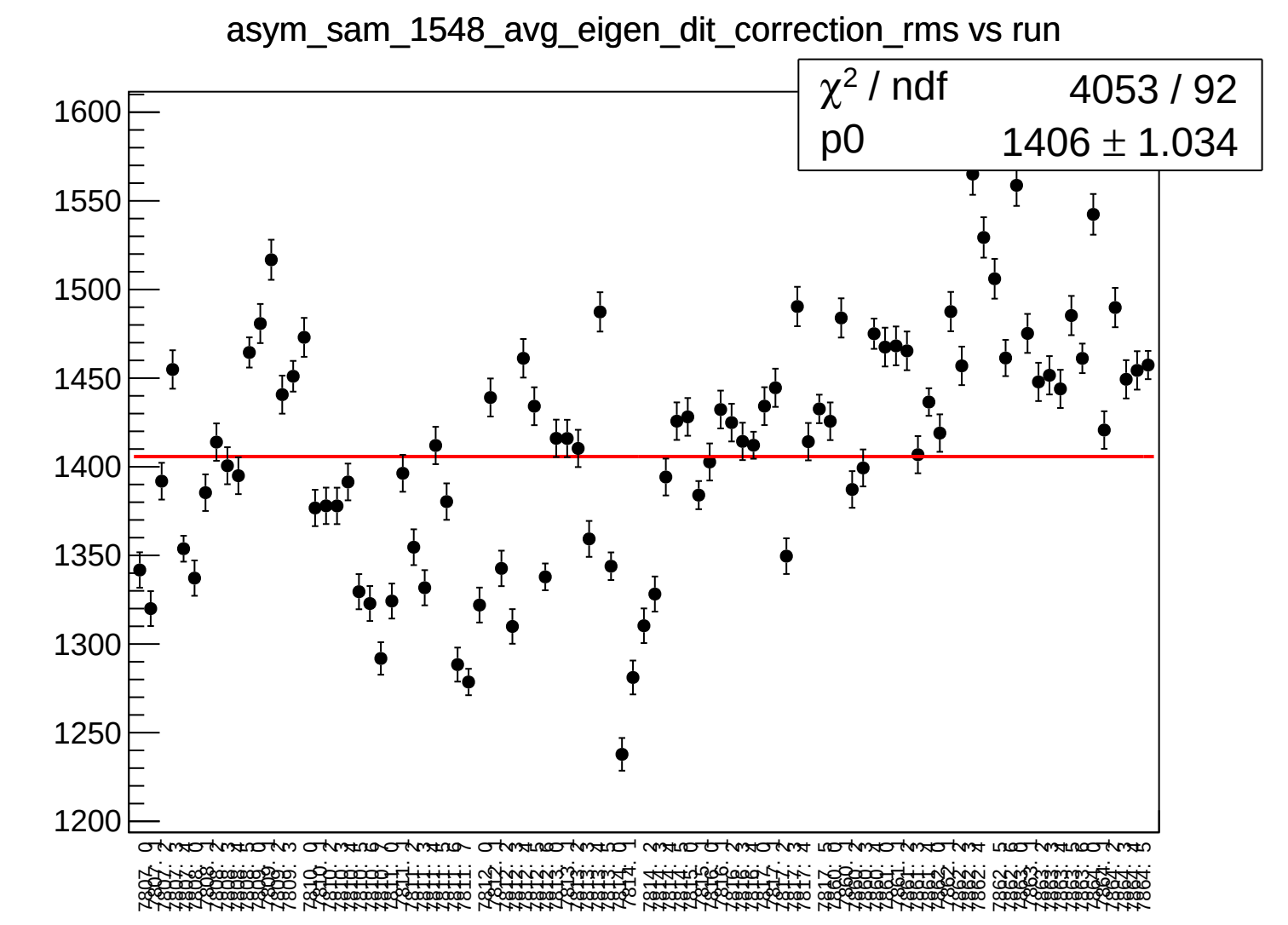

asym_sam_1548_avg_dit_correction_rms vs run
χ² / ndf 4053 / 92
p0 1406 ± 1.034
1600
1550
1500
1450
1400
1350
1300
1250
1200

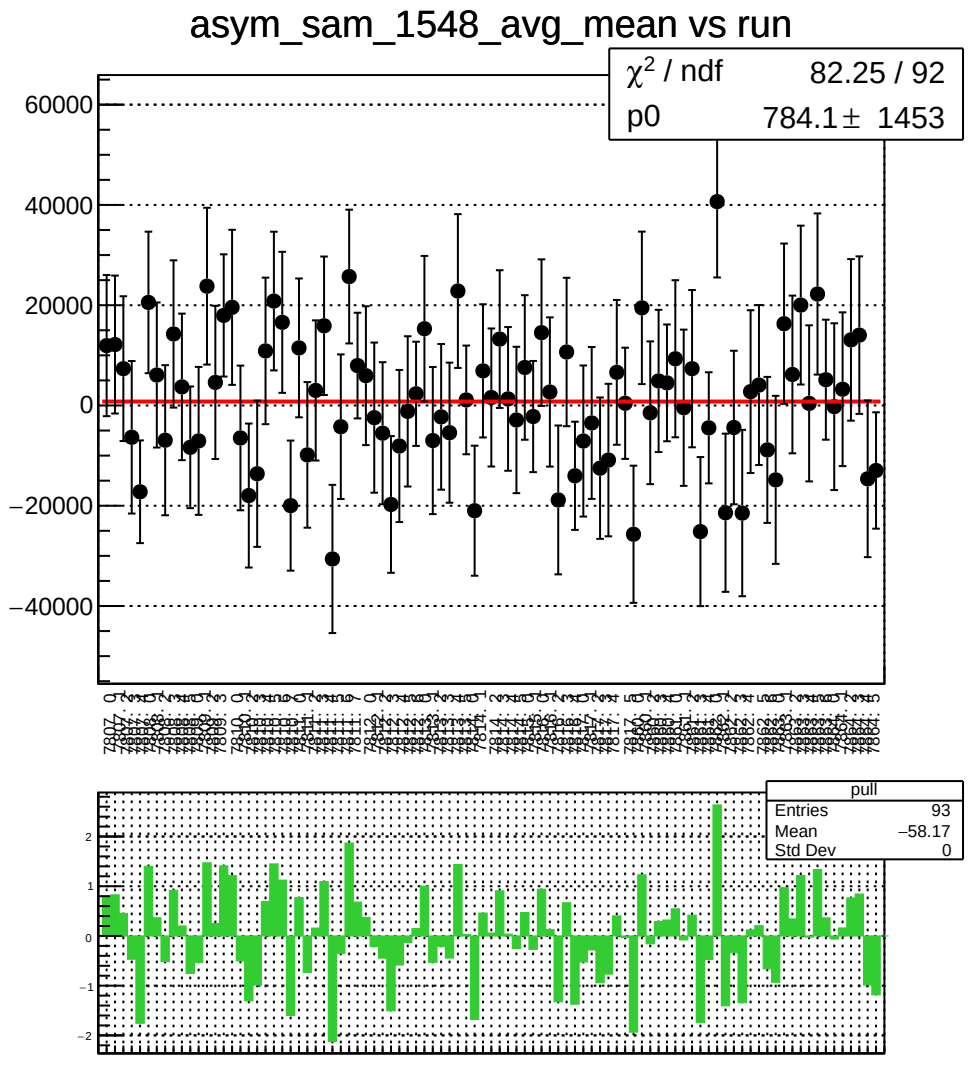

eigen_dit_asym_sam_1548_avg_mean vs run
χ² / ndf 90.3 / 92
p0 −25.43 ± 161.1
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean −238.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.003202
Std Dev 0.9854
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

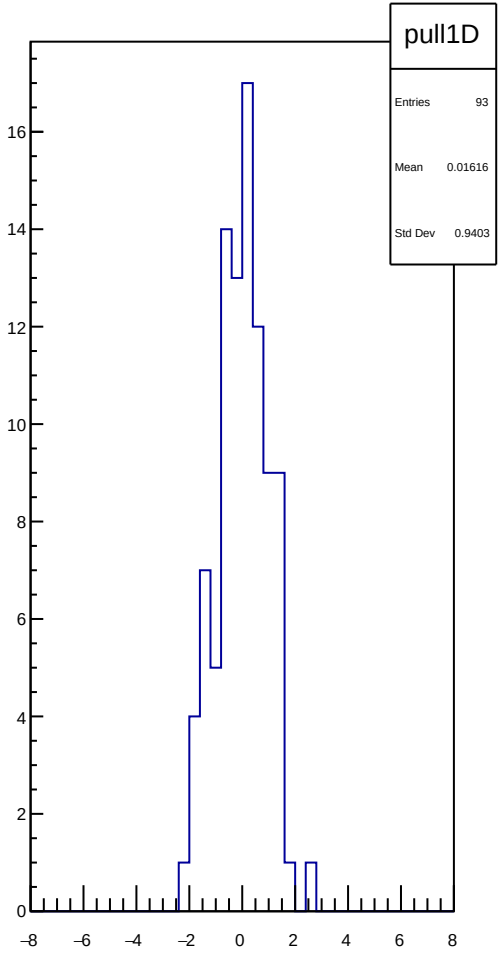

eigen_dit_asym_sam_1548_avg_rms vs run
χ² / ndf 1.451e+04 / 92
p0 154.4 ± 0.1139
280
260
240
220
200
180
160
140

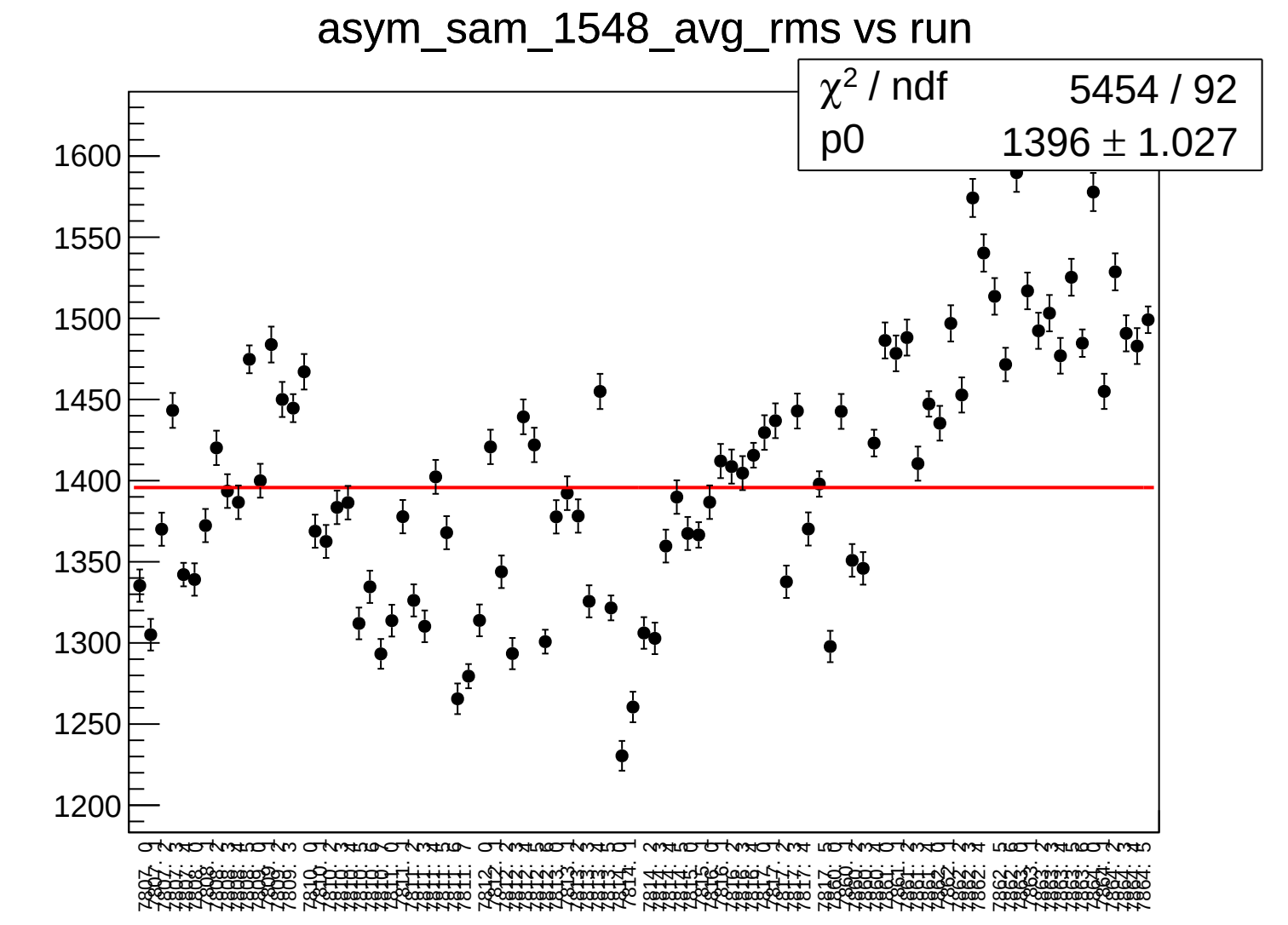

asym_sam_1548_avg_eigen_dit_correction_mean vs run
χ² / ndf 82.55 / 92
p0 −850.3 ± 1463
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −58.78
Std Dev 0
2
1
0
−1
−2

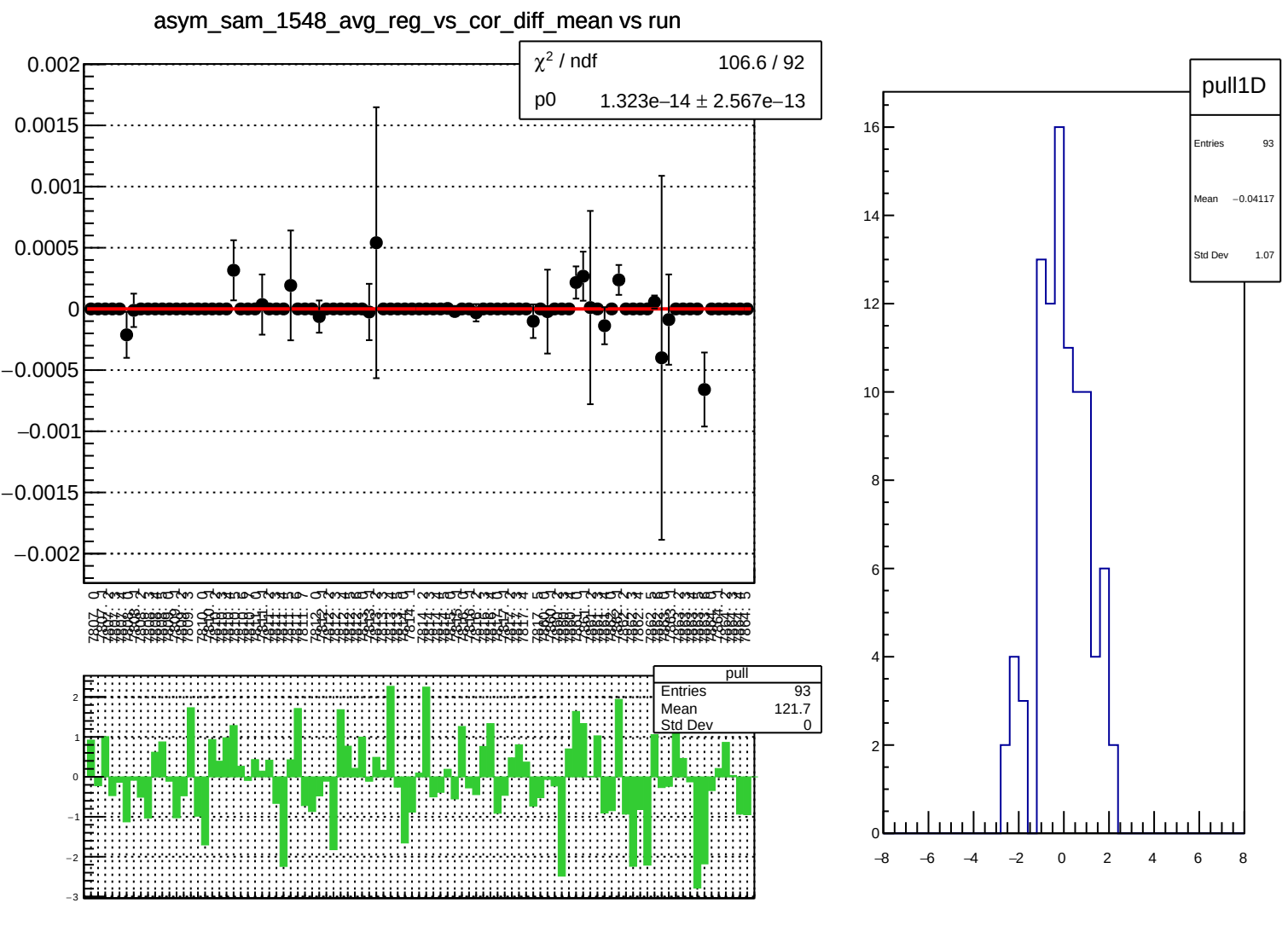

pull1D
Entries 93
Mean −0.0145
Std Dev 0.9421
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

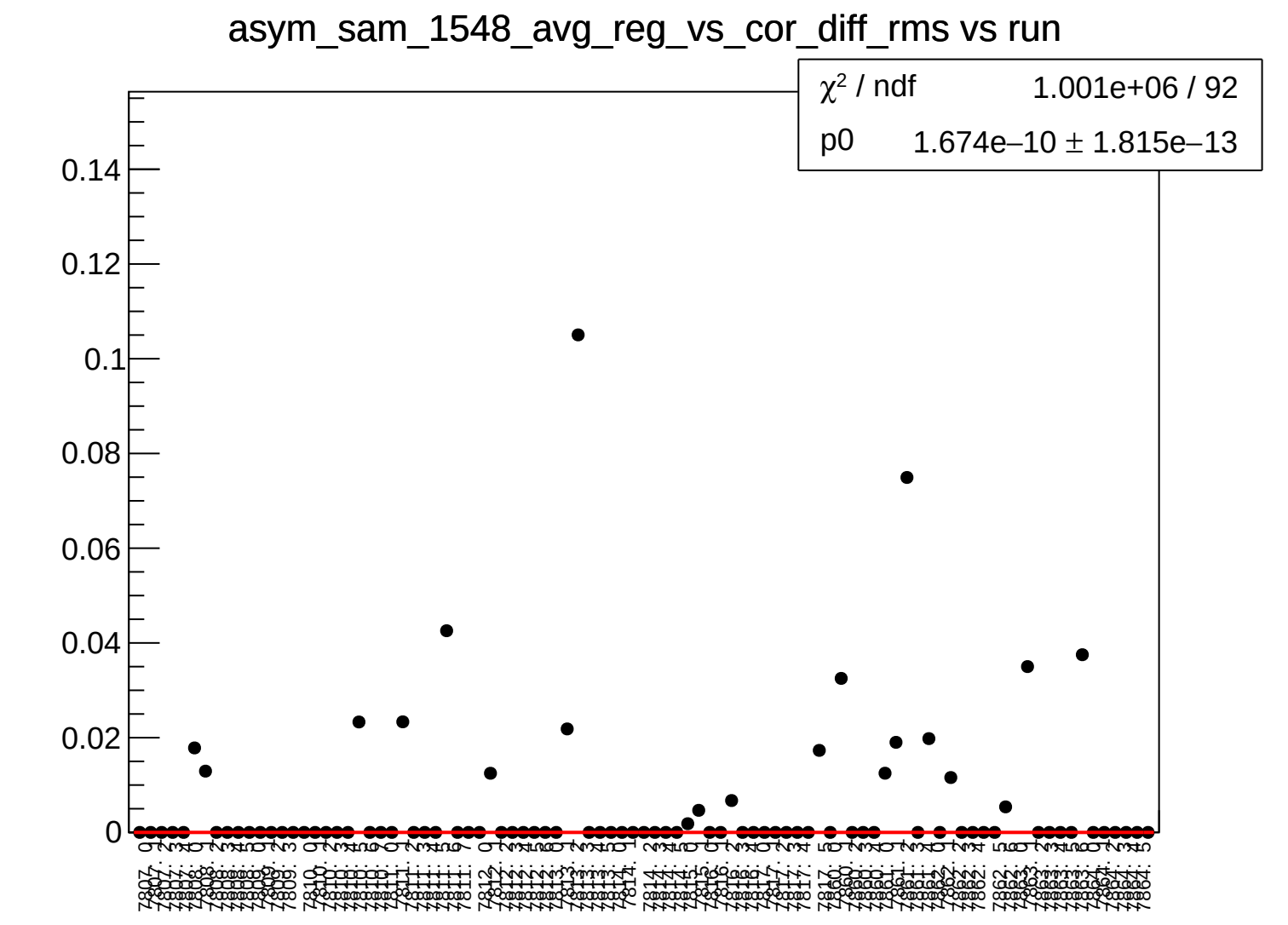

asym_sam_1548_avg_eigen_dit_correction_rms vs run
χ² / ndf 4053 / 92
p0 1406 ± 1.034
1600
1550
1500
1450
1400
1350
1300
1250
1200

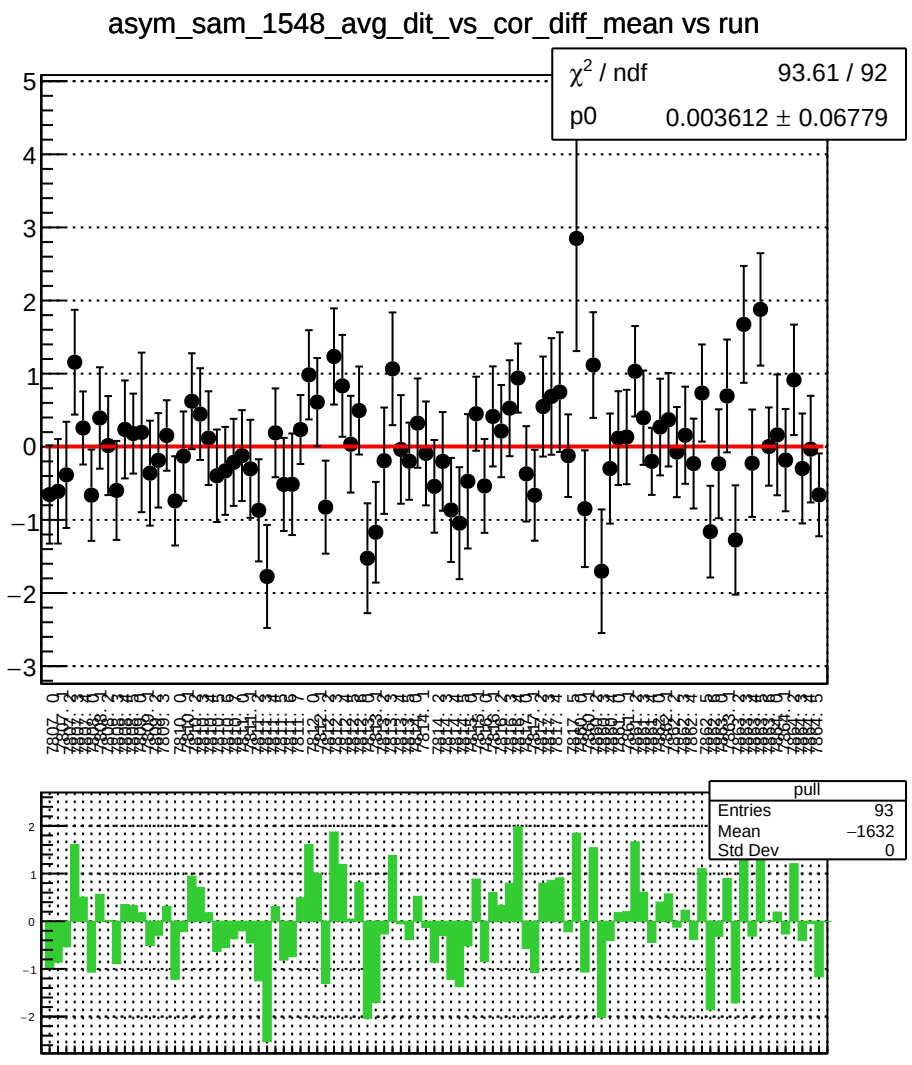

asym_sam_1548_avg_mean vs run
χ² / ndf 82.25 / 92
p0 784.1 ± 1453
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −58.17
Std Dev 0
2
1
0
−1
−2

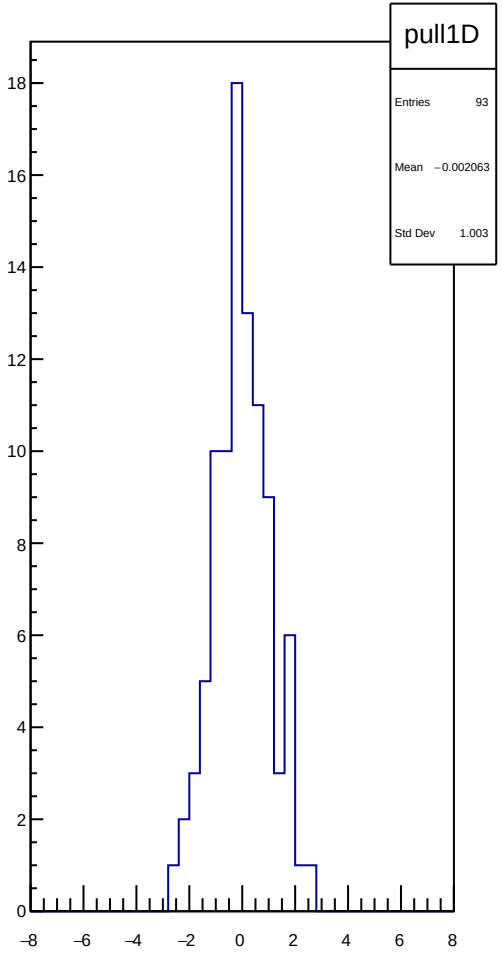

pull1D
Entries 93
Mean 0.01616
Std Dev 0.9403
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

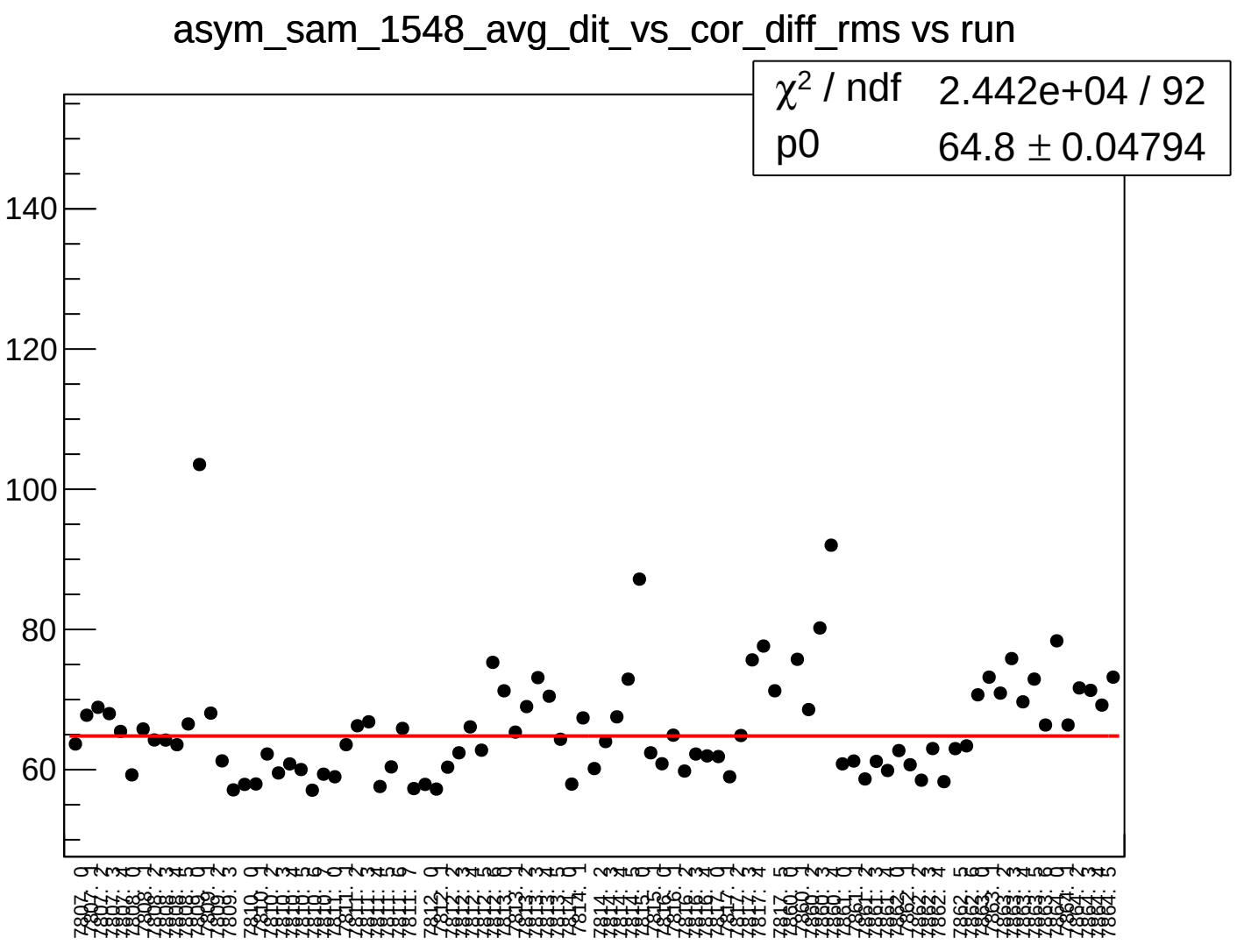

asym_sam_1548_avg_rms vs run
χ² / ndf 5454 / 92
p0 1396 ± 1.027
1600
1550
1500
1450
1400
1350
1300
1250
1200

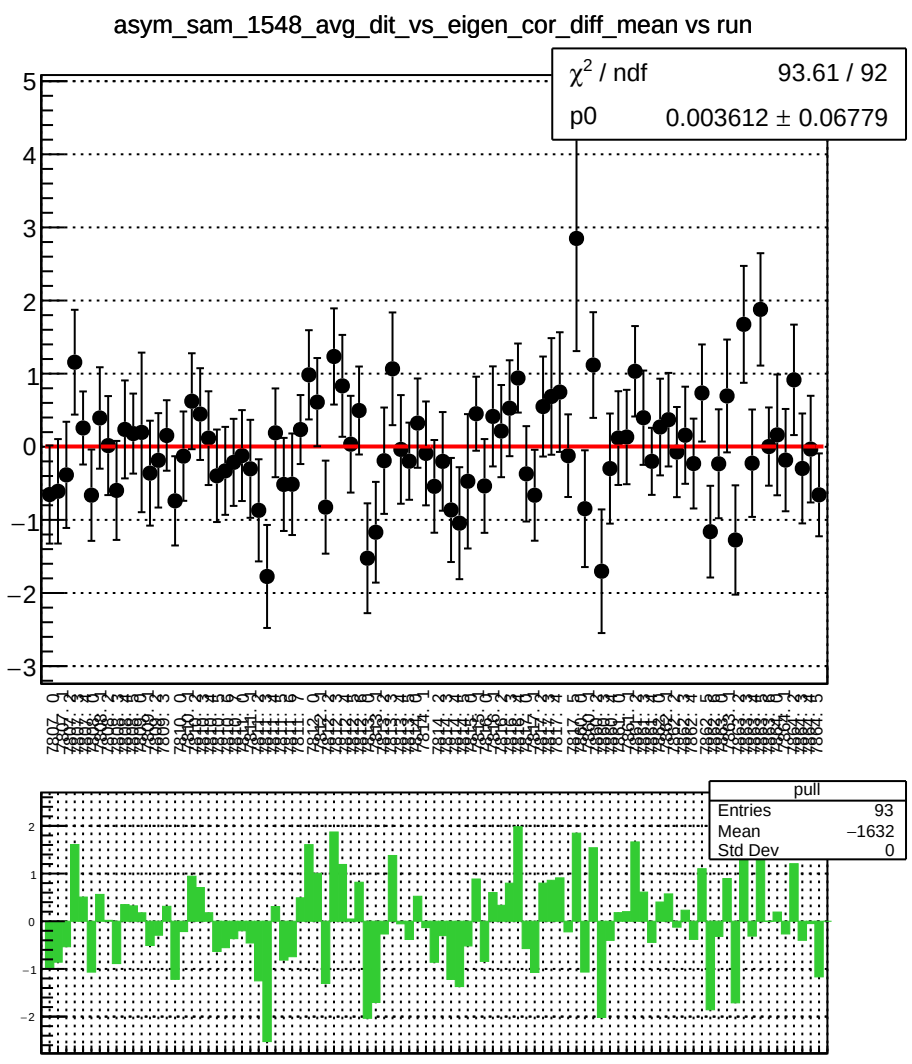

asym_sam_1548_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 106.6 / 92
p0 1.323e−14 ± 2.567e−13
pull
Entries 93
Mean 121.7
Std Dev 0
pull1D
Entries 93
Mean −0.04117
Std Dev 1.07

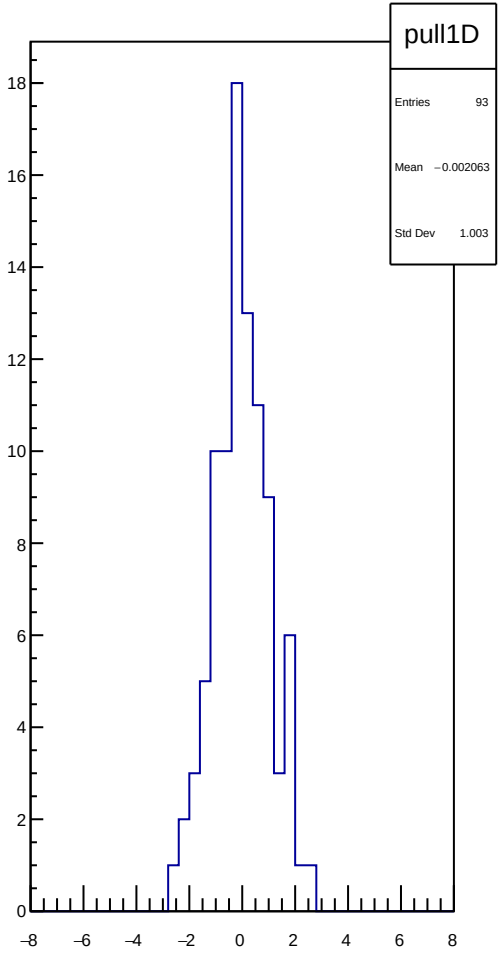

asym_sam_1548_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.001e+06 / 92
p0 1.674e−10 ± 1.815e−13
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

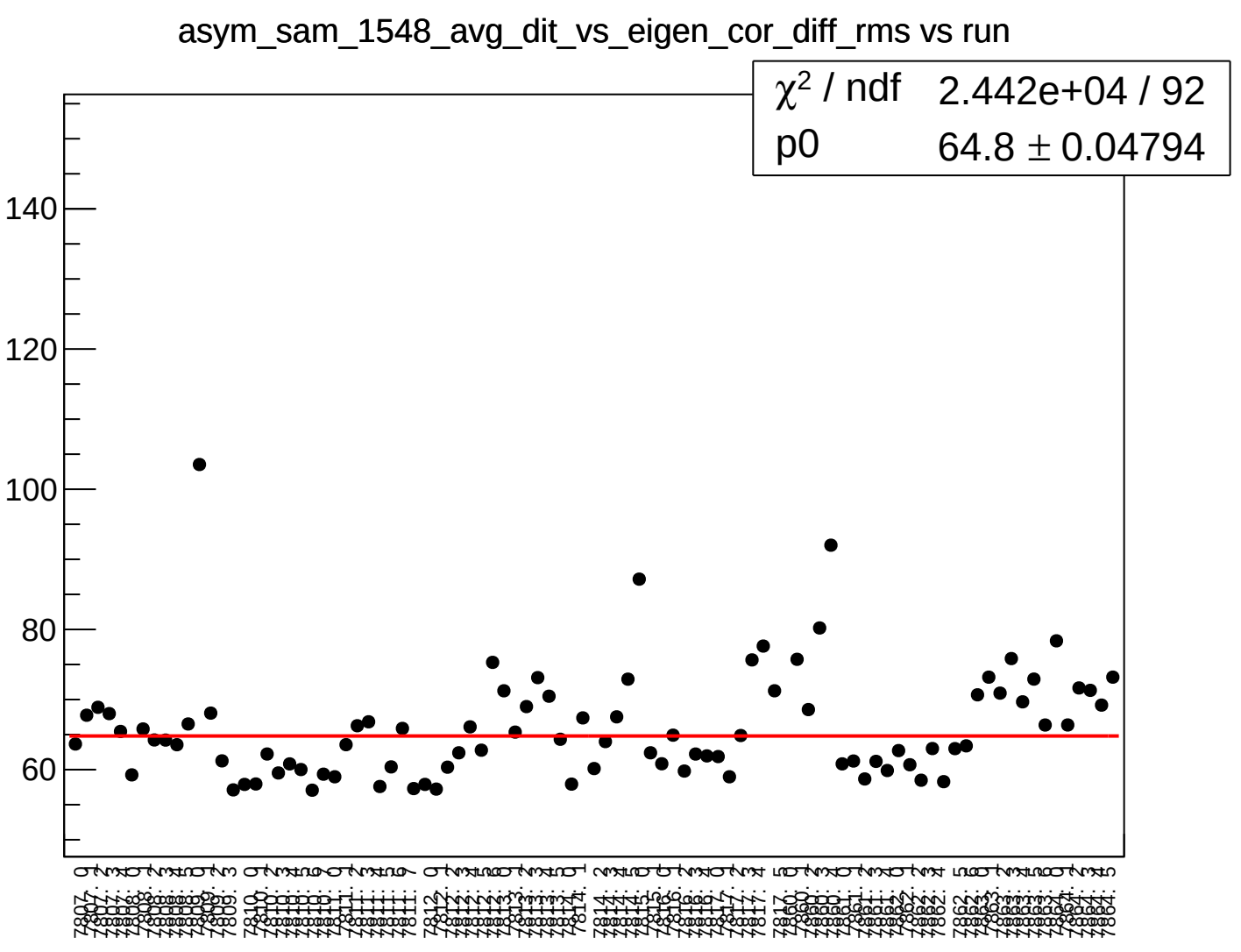

asym_sam_1548_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 93.61 / 92
p0 0.003612 ± 0.06779
pull
Entries 93
Mean −1632
Std Dev 0

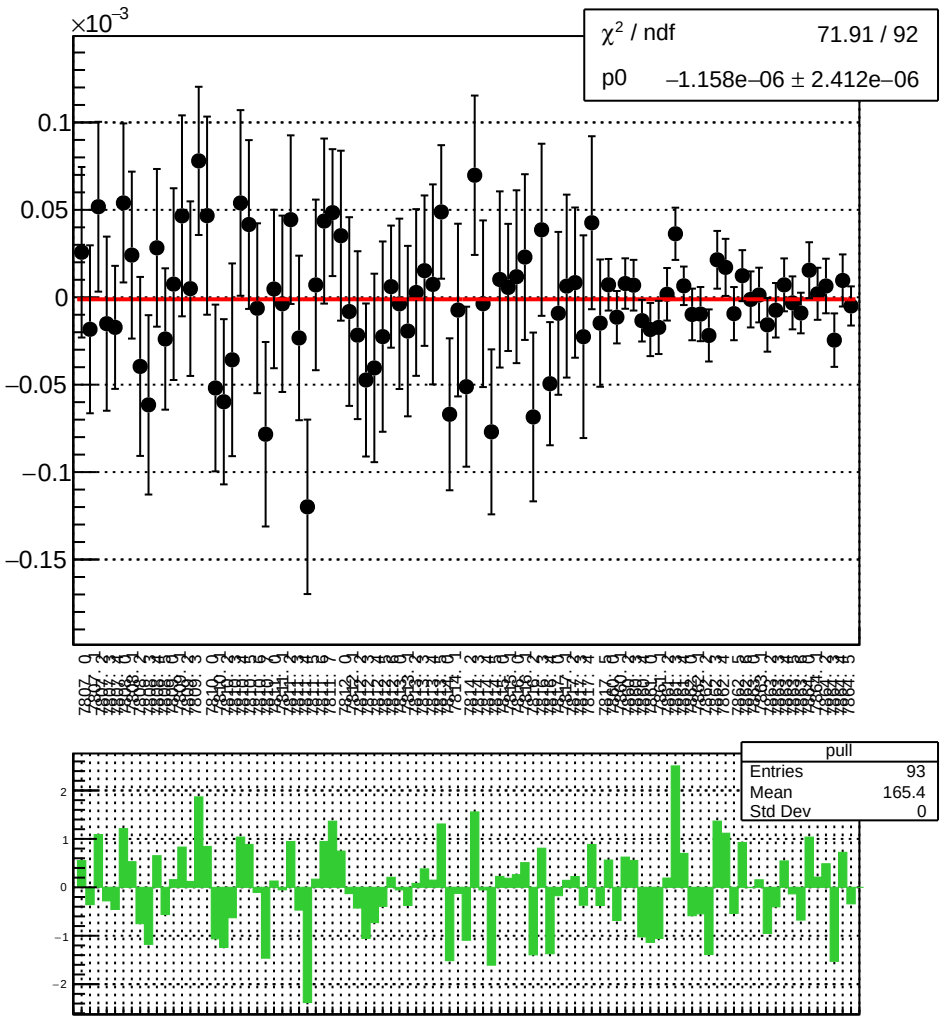

pull1D
Entries 93
Mean −0.002063
Std Dev 1.003

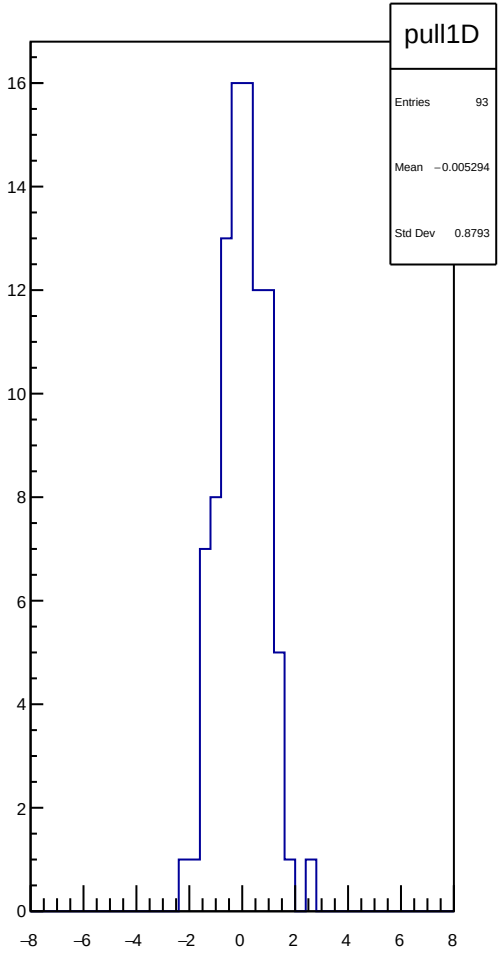

asym_sam_1548_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.442e+04 / 92
p0 64.8 ± 0.04794
140
120
100
80
60

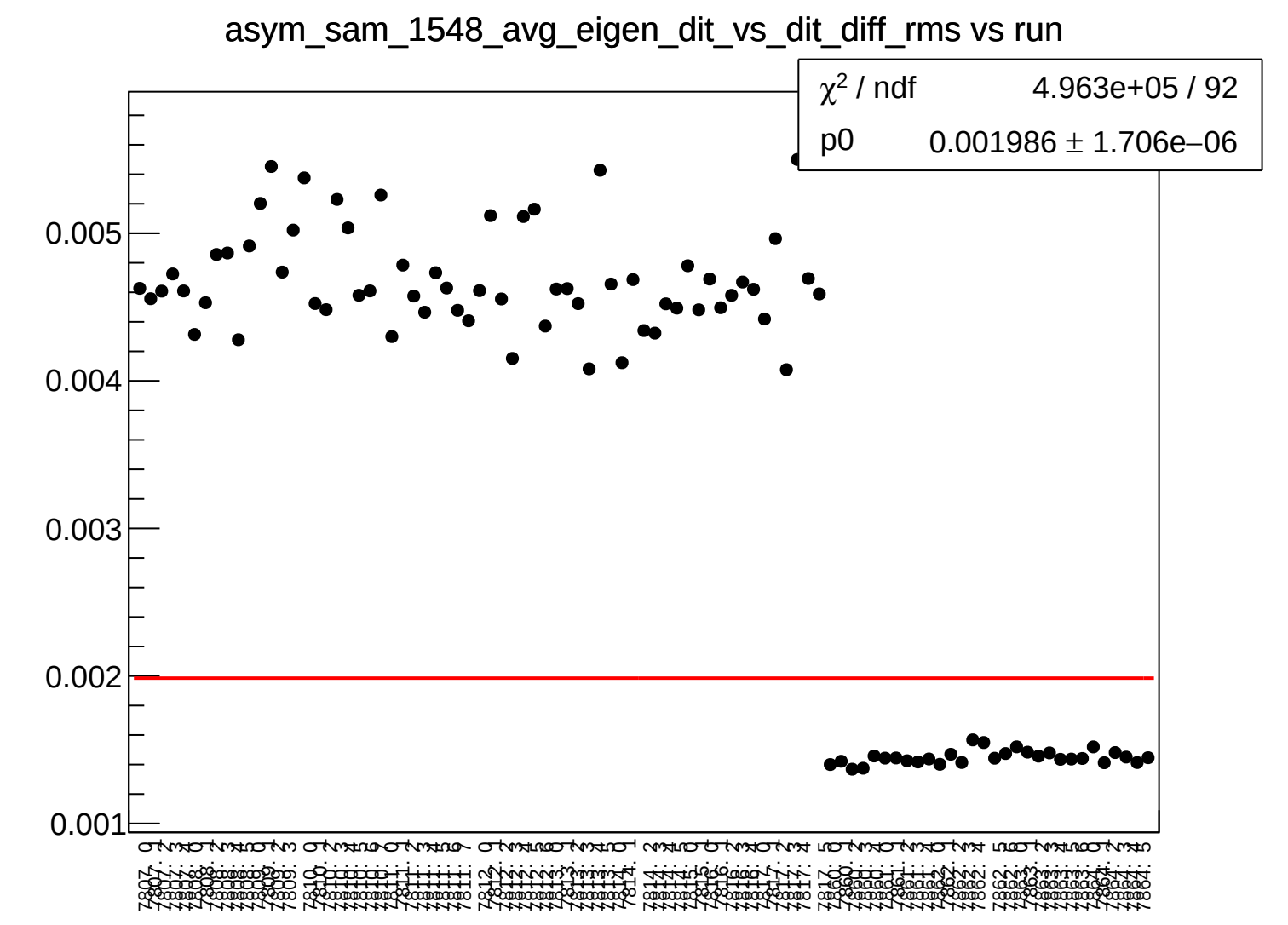

asym_sam_1548_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.61 / 92
p0 0.003612 ± 0.06779
pull
Entries 93
Mean −1632
Std Dev 0

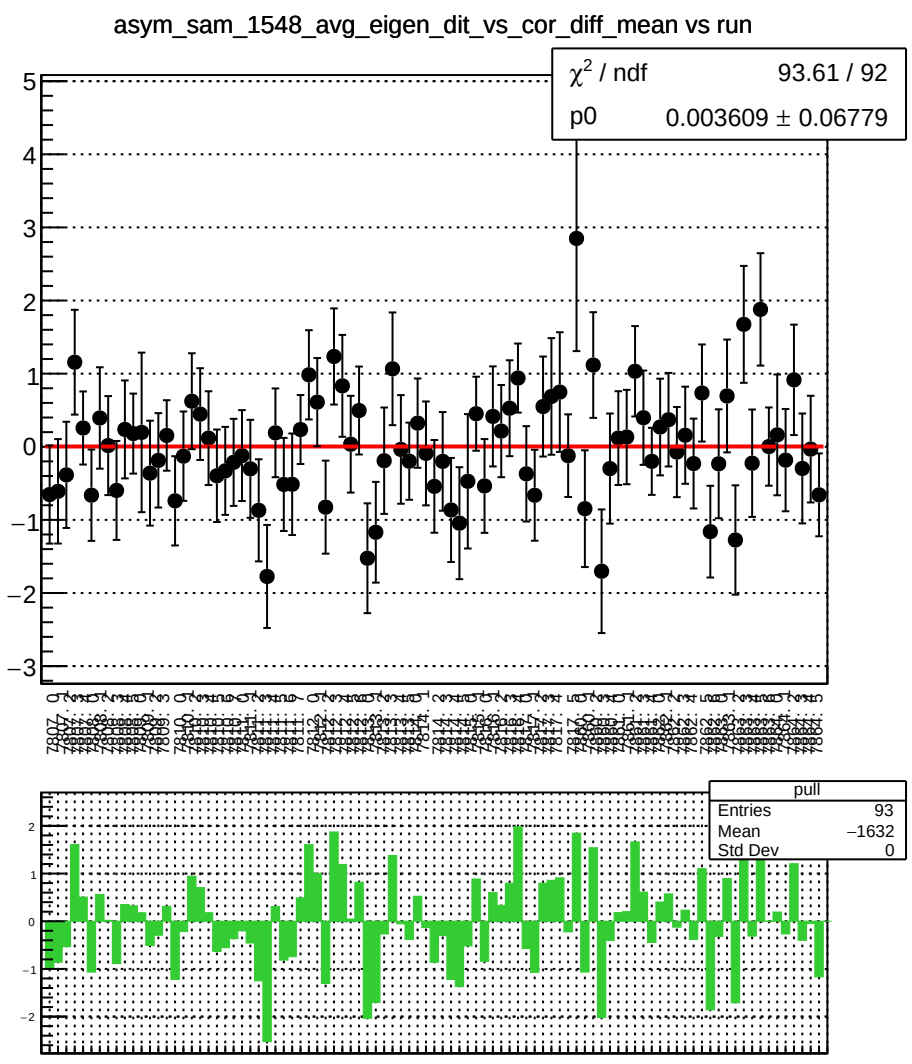

pull1D
Entries 93
Mean −0.002063
Std Dev 1.003

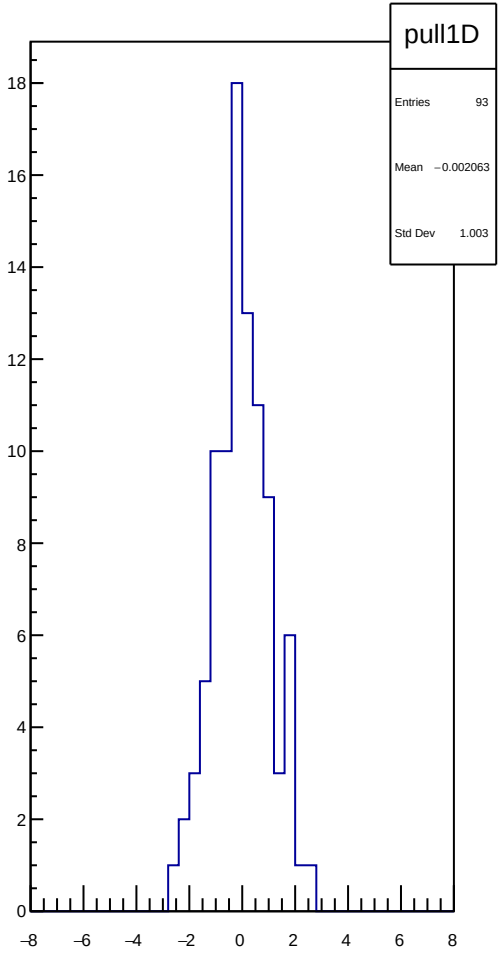

asym_sam_1548_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.442e+04 / 92
p0 64.8 ± 0.04794
140
120
100
80
60

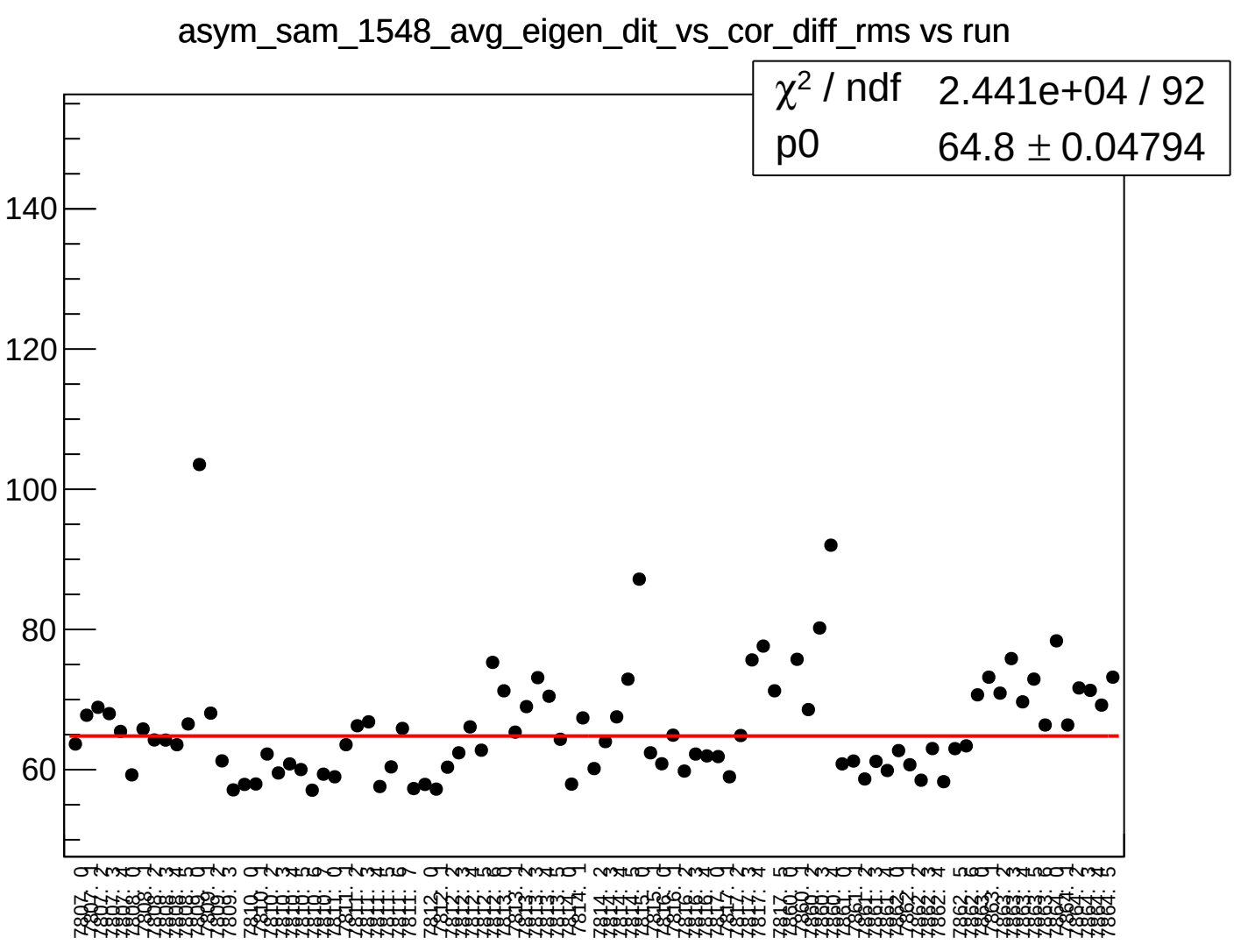

asym_sam_1548_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 71.91 / 92
p0 −1.158e−06 ± 2.412e−06
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 93
Mean 165.4
Std Dev 0
2
1
0
−1
−2

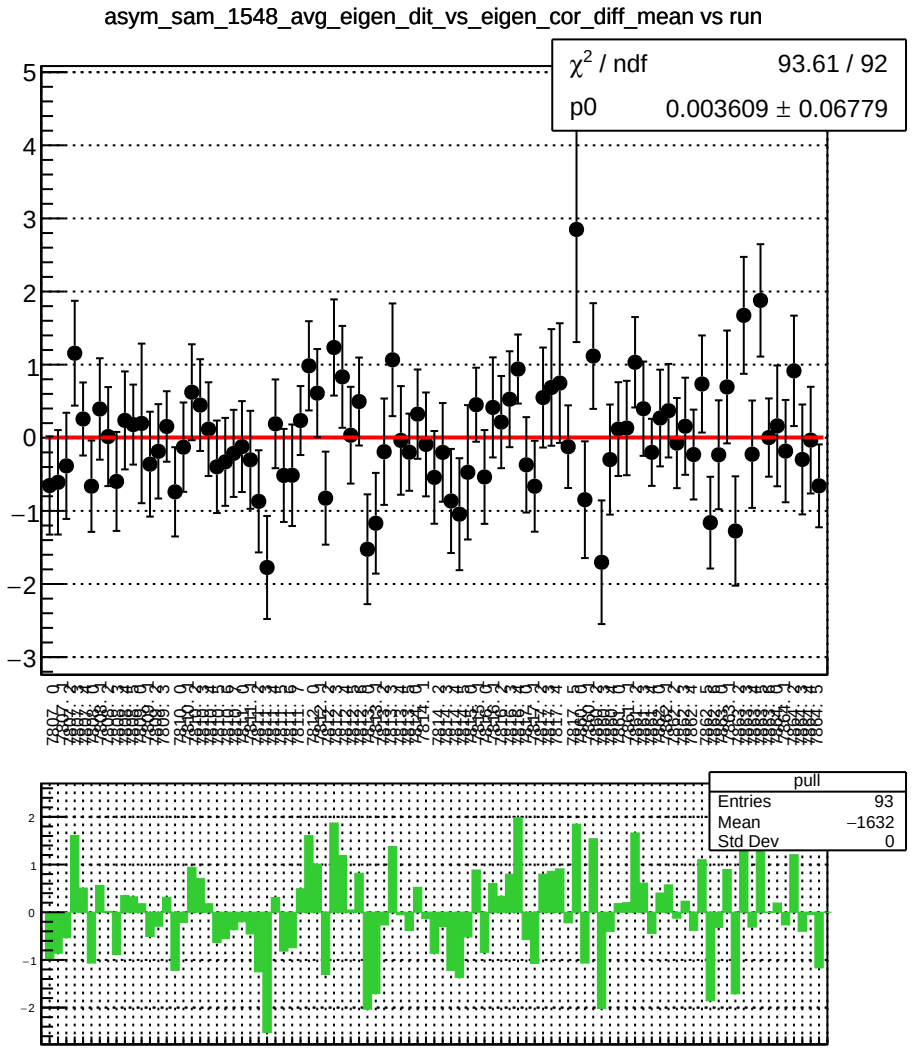

pull1D
Entries 93
Mean −0.005294
Std Dev 0.8793
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

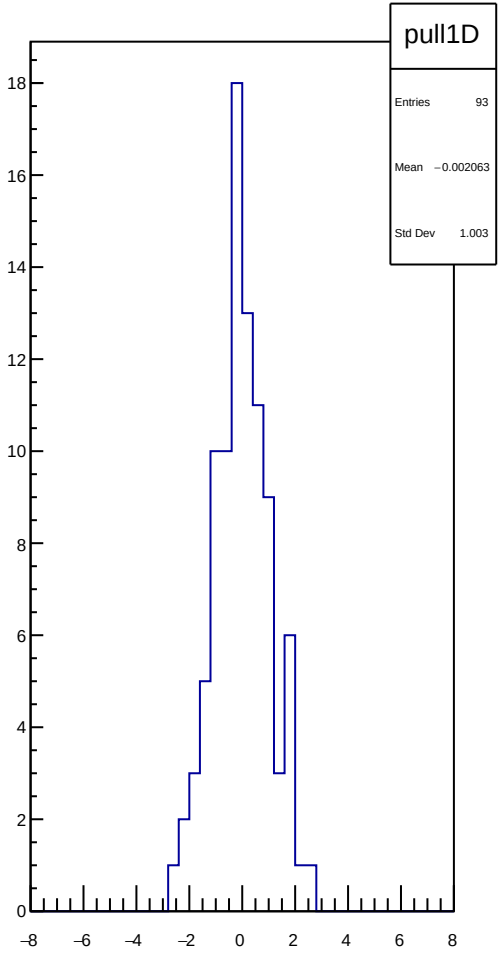

asym_sam_1548_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.963e+05 / 92
p0 0.001986 ± 1.706e−06
0.005
0.004
0.003
0.002
0.001

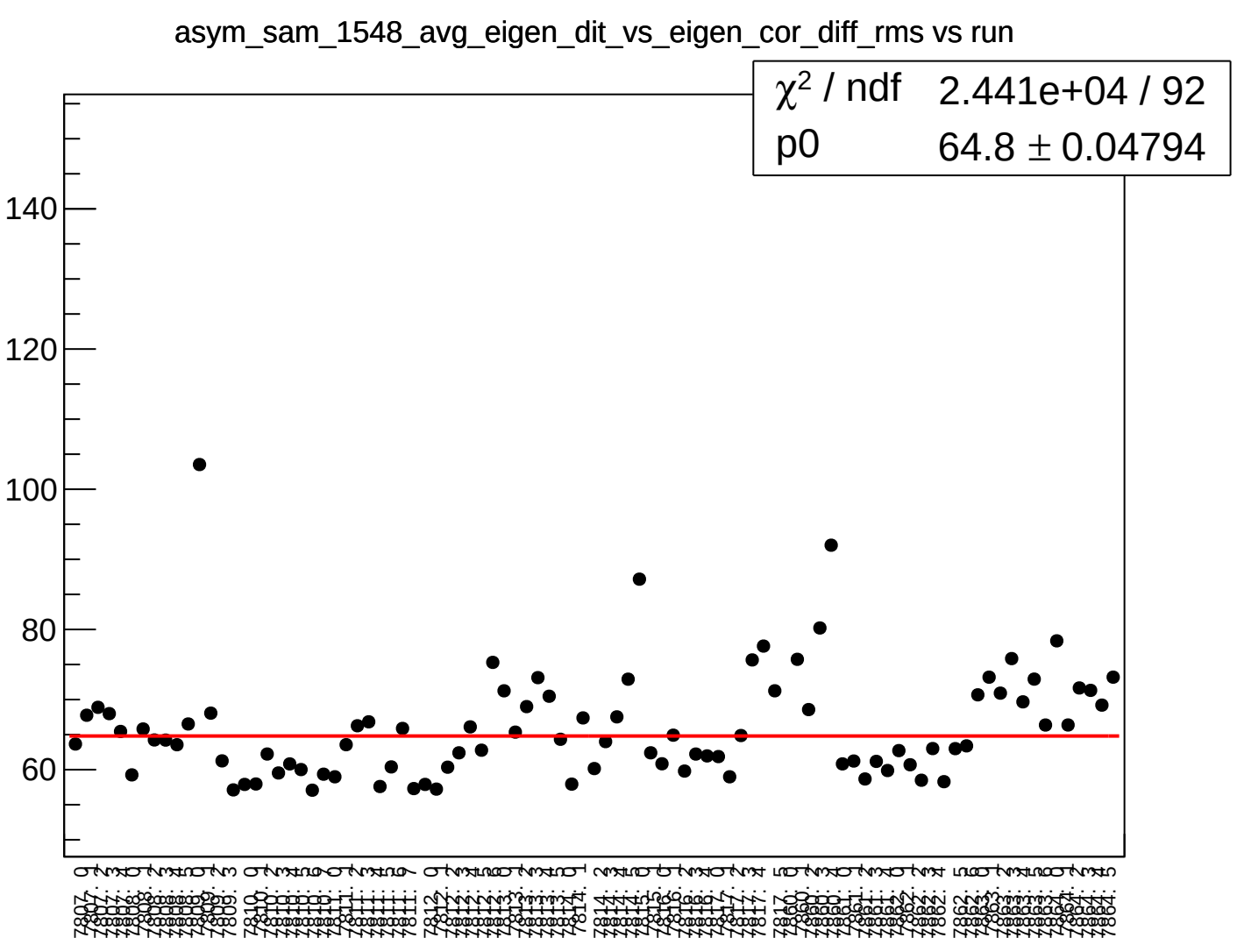

asym_sam_1548_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.61 / 92
p0 0.003609 ± 0.06779
pull
Entries 93
Mean −1632
Std Dev 0

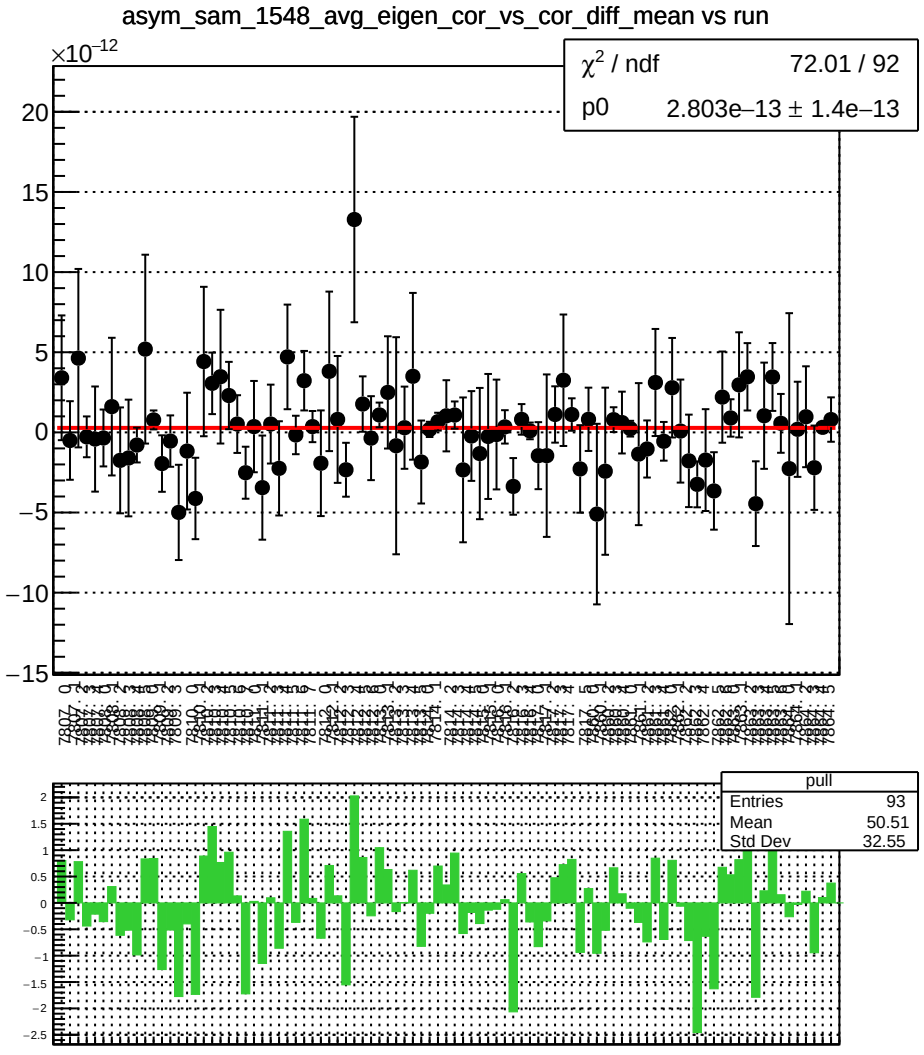

pull1D
Entries 93
Mean −0.002063
Std Dev 1.003

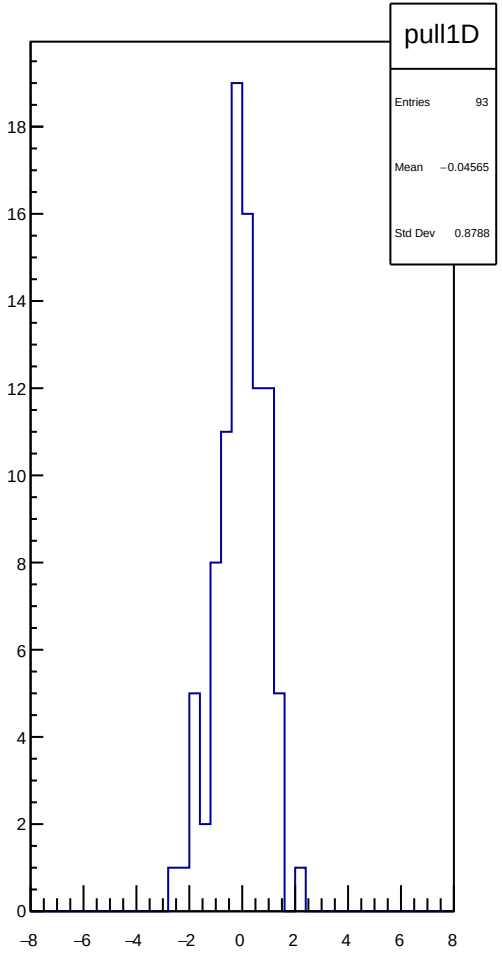

asym_sam_1548_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.441e+04 / 92
p0 64.8 ± 0.04794
140
120
100
80
60

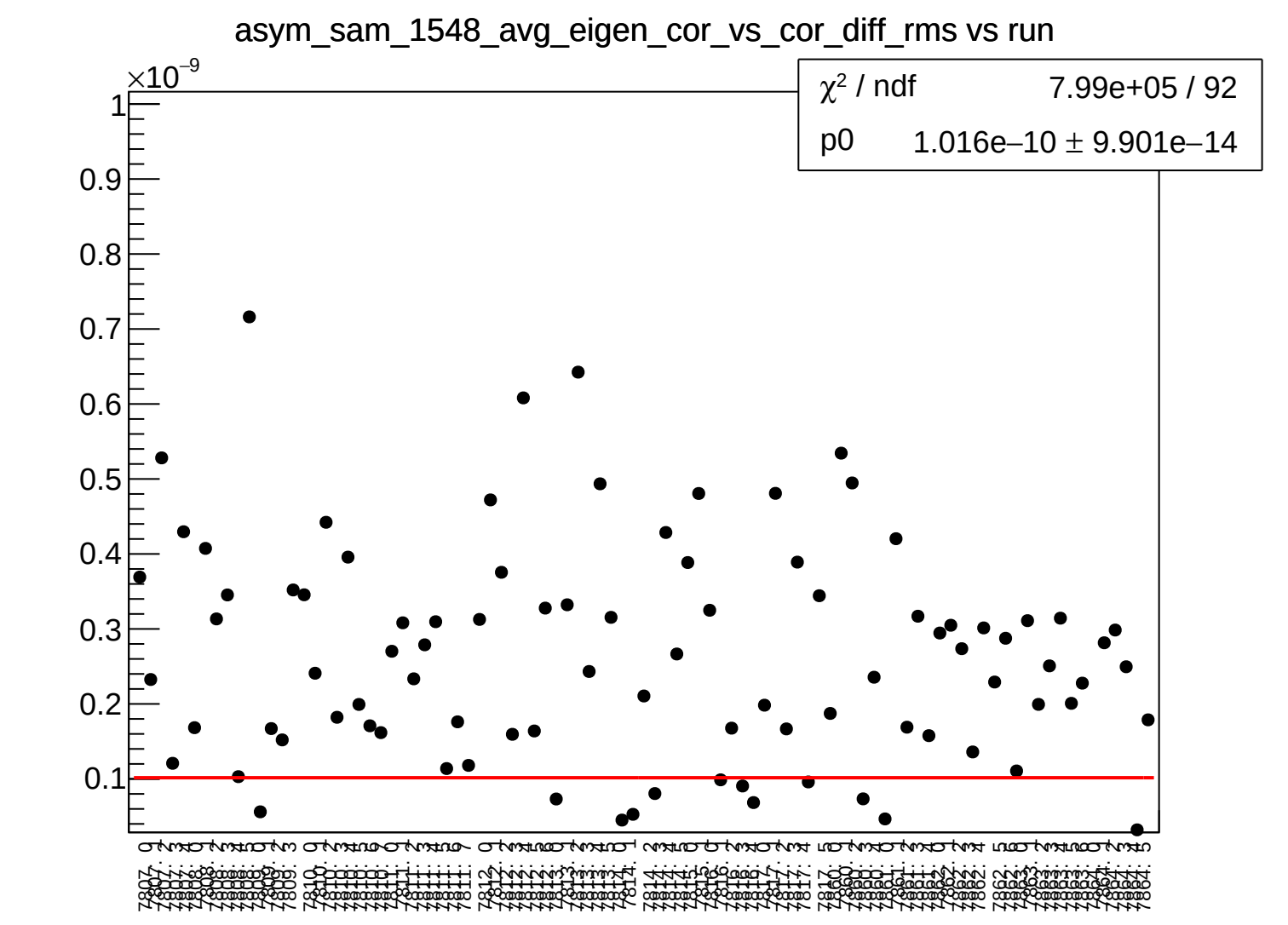

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.61 / 92
p0 0.003609 ± 0.06779
pull
Entries 93
Mean −1632
Std Dev 0

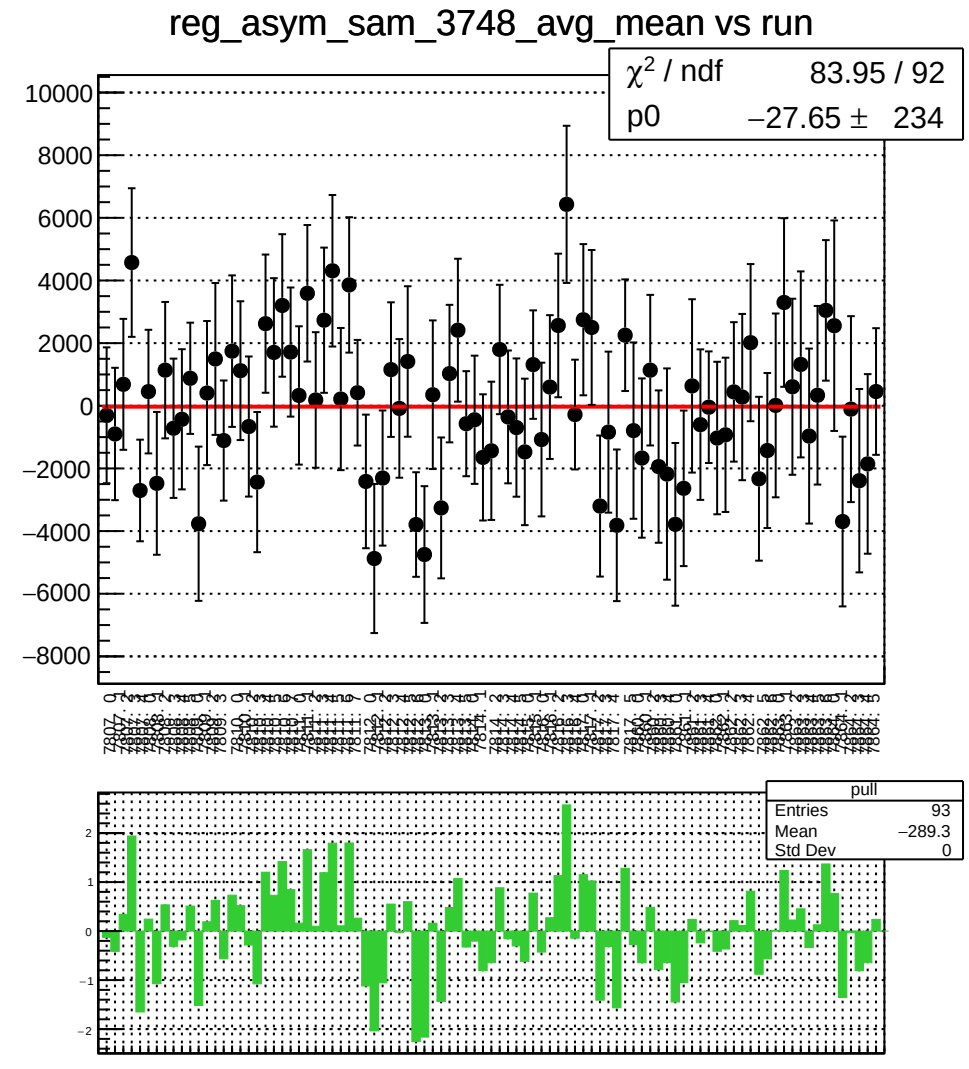

pull1D
Entries 93
Mean −0.002063
Std Dev 1.003

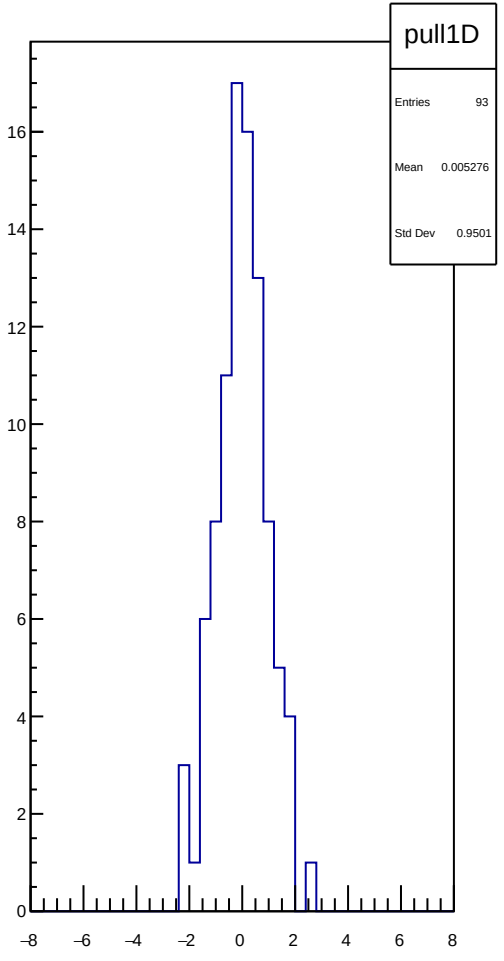

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.441e+04 / 92
p0 64.8 ± 0.04794
140
120
100
80
60

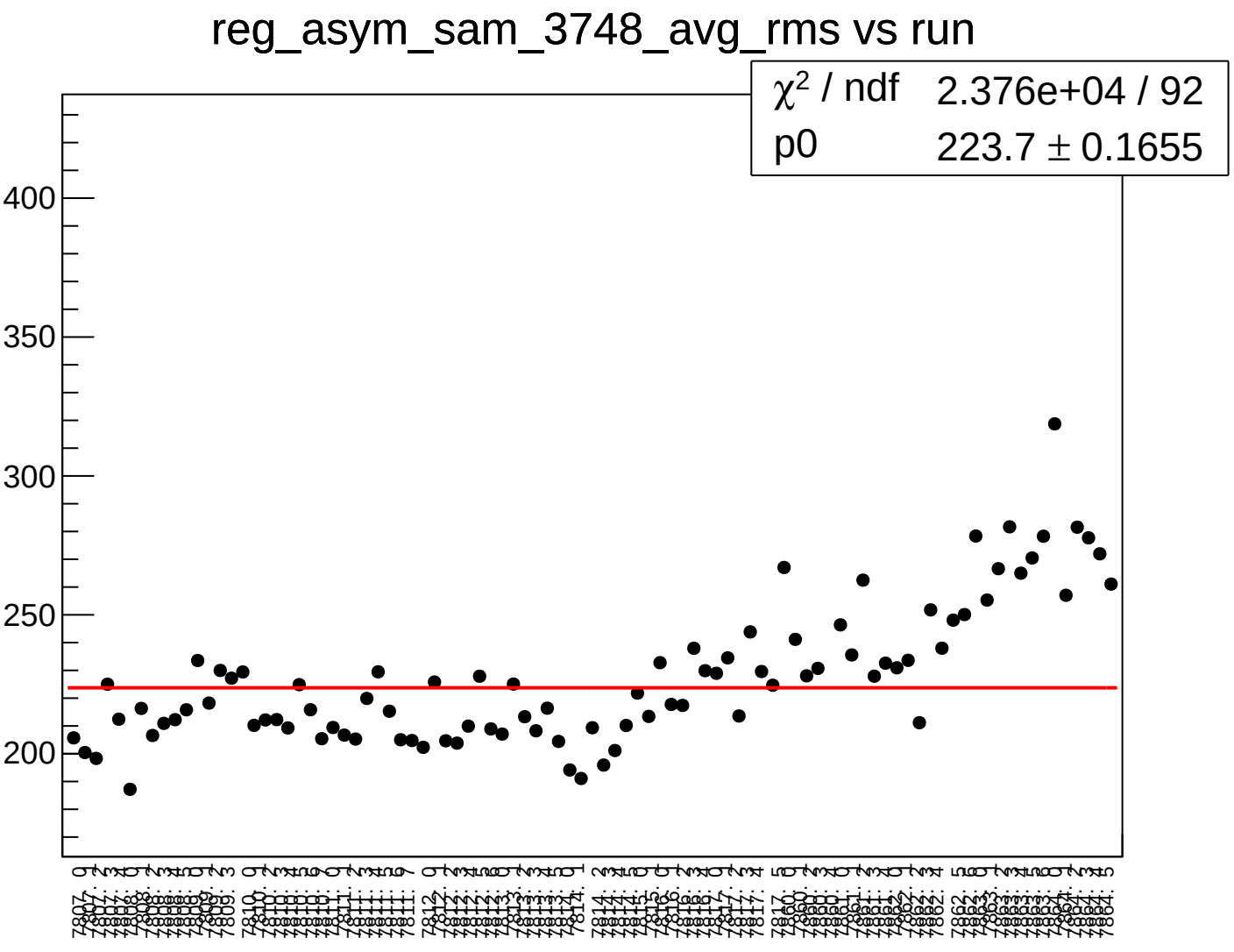

asym_sam_1548_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 72.01 / 92
p0 2.803e−13 ± 1.4e−13
pull
Entries 93
Mean 50.51
Std Dev 32.55

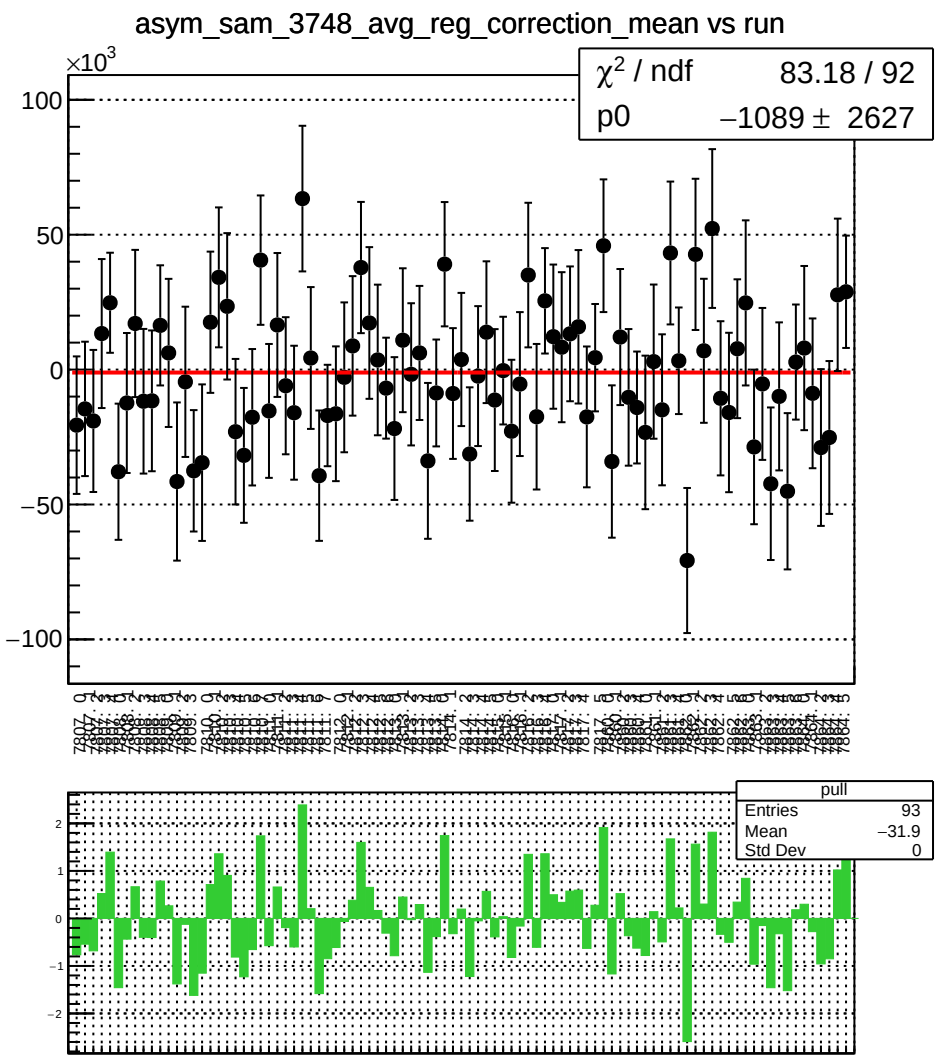

pull1D
Entries 93
Mean −0.04565
Std Dev 0.8788

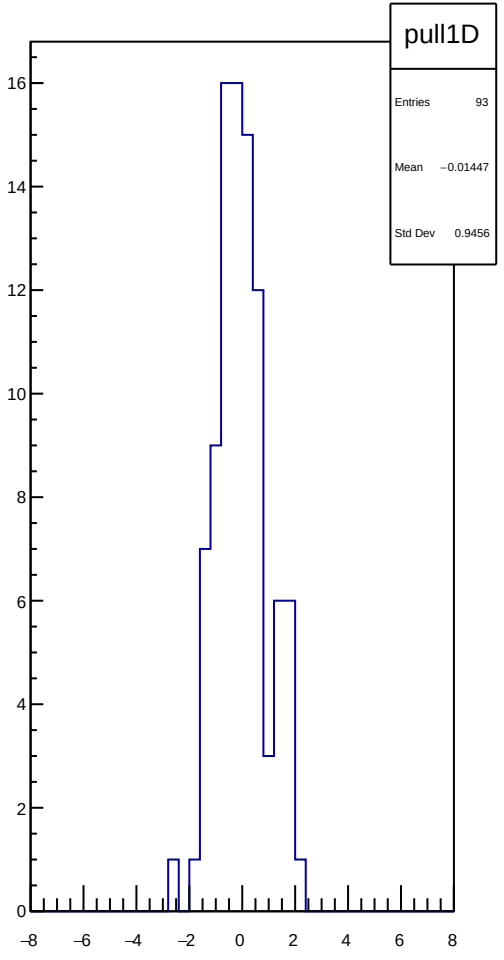

asym_sam_1548_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.99e+05 / 92
p0 1.016e−10 ± 9.901e−14
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

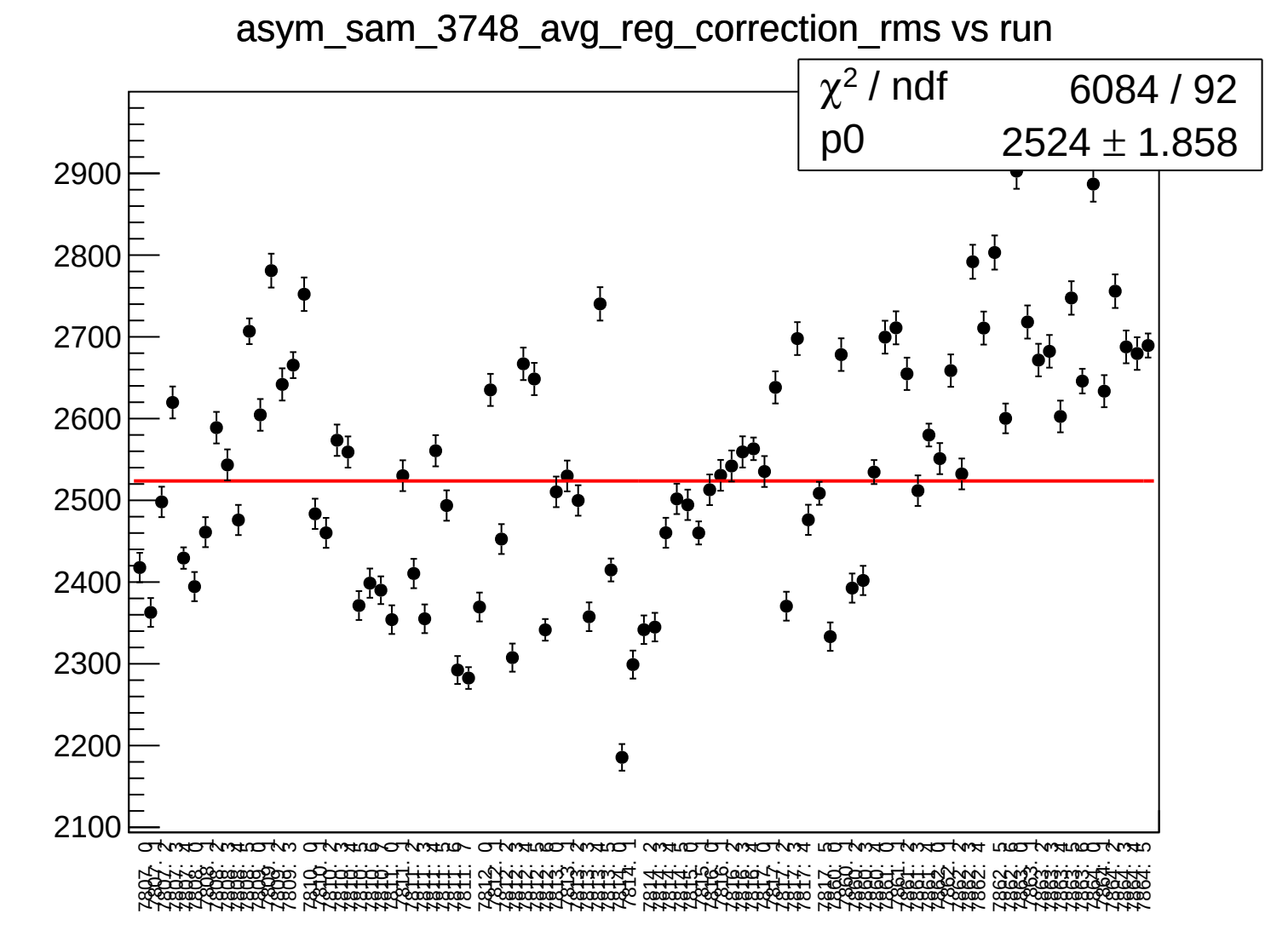

reg_asym_sam_3748_avg_mean vs run
χ² / ndf 83.95 / 92
p0 −27.65 ± 234
pull
Entries 93
Mean −289.3
Std Dev 0

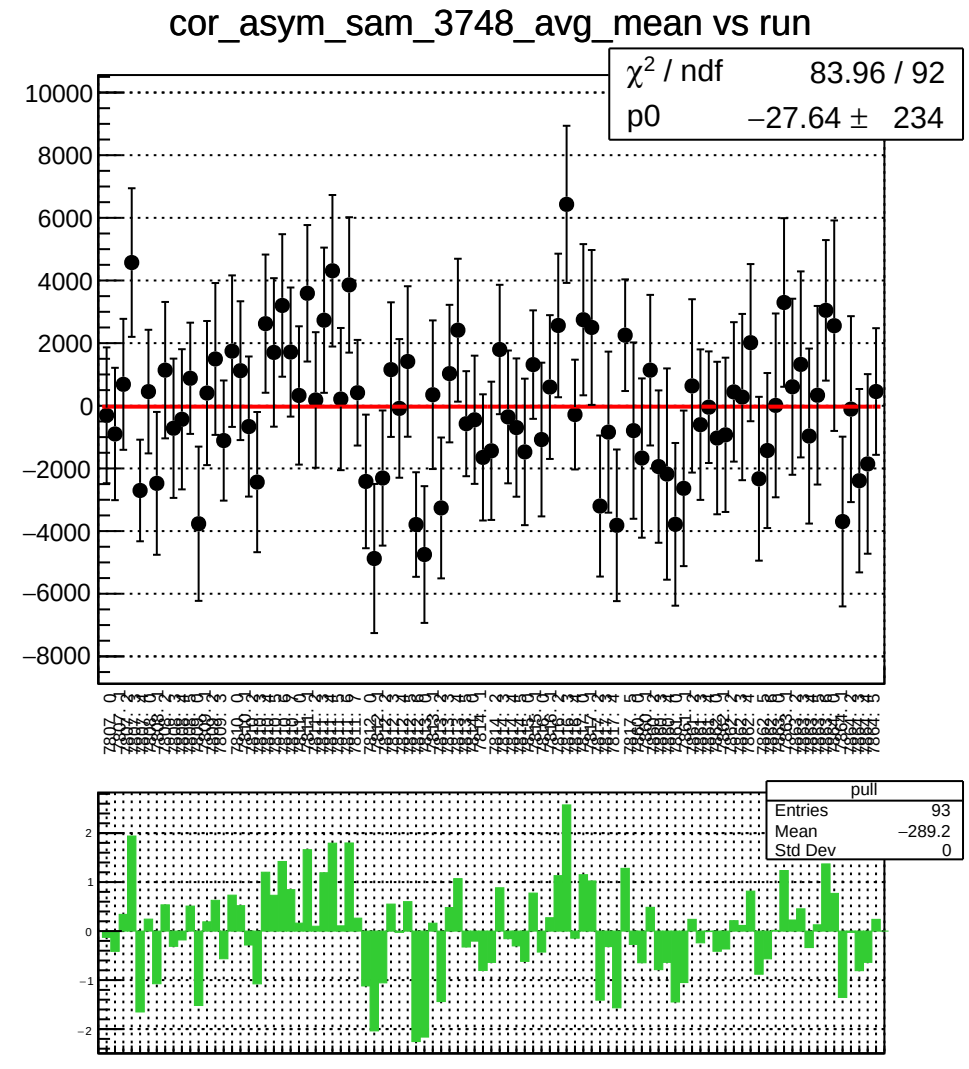

pull1D
Entries 93
Mean 0.005276
Std Dev 0.9501

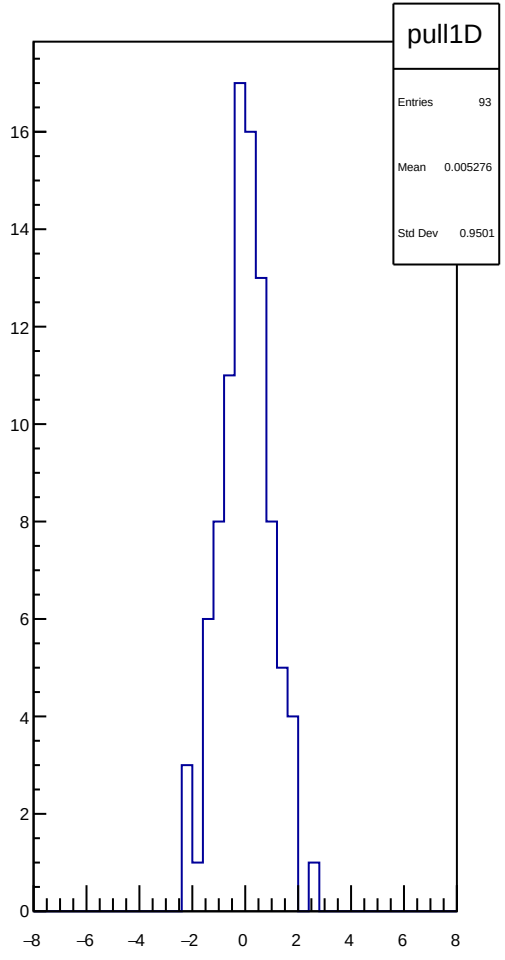

reg_asym_sam_3748_avg_rms vs run
χ² / ndf 2.376e+04 / 92
p0 223.7 ± 0.1655
400
350
300
250
200

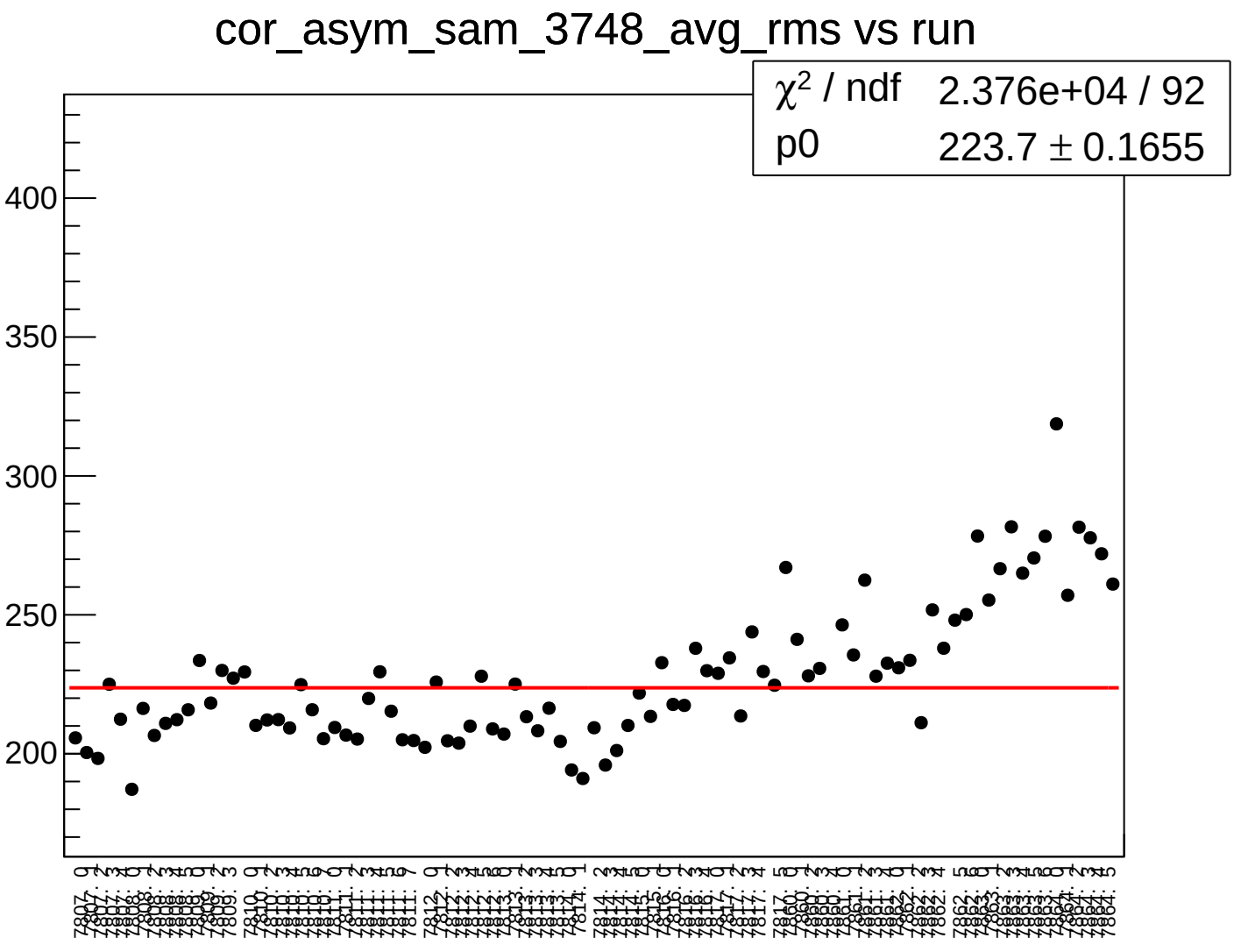

asym_sam_3748_avg_reg_correction_mean vs run
×10^3
χ² / ndf 83.18 / 92
p0 −1089 ± 2627
100
50
0
−50
−100
pull
Entries 93
Mean −31.9
Std Dev 0
2
1
0
−1
−2

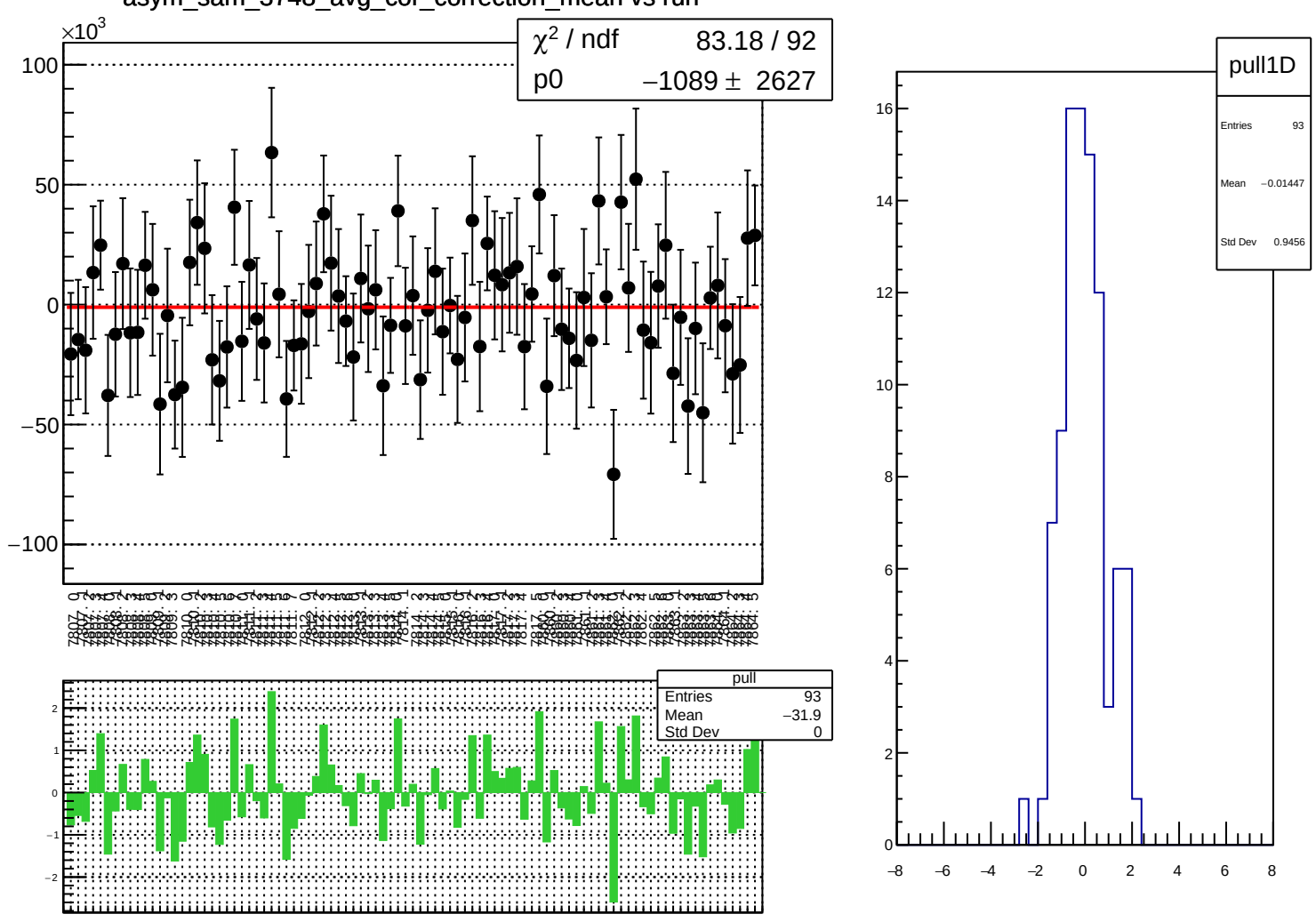

pull1D
Entries 93
Mean −0.01447
Std Dev 0.9456
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

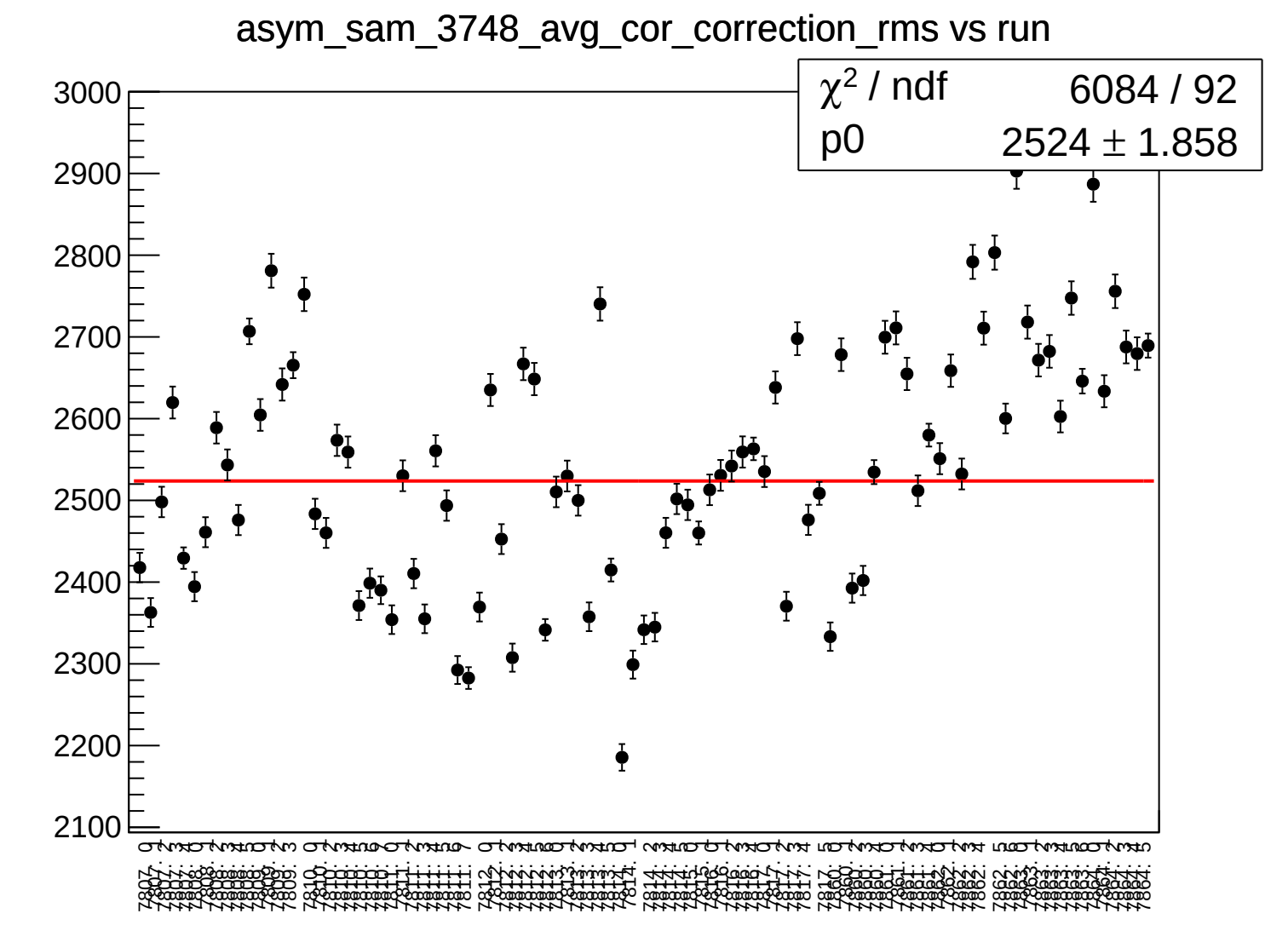

asym_sam_3748_avg_reg_correction_rms vs run
χ² / ndf 6084 / 92
p0 2524 ± 1.858
2900
2800
2700
2600
2500
2400
2300
2200
2100

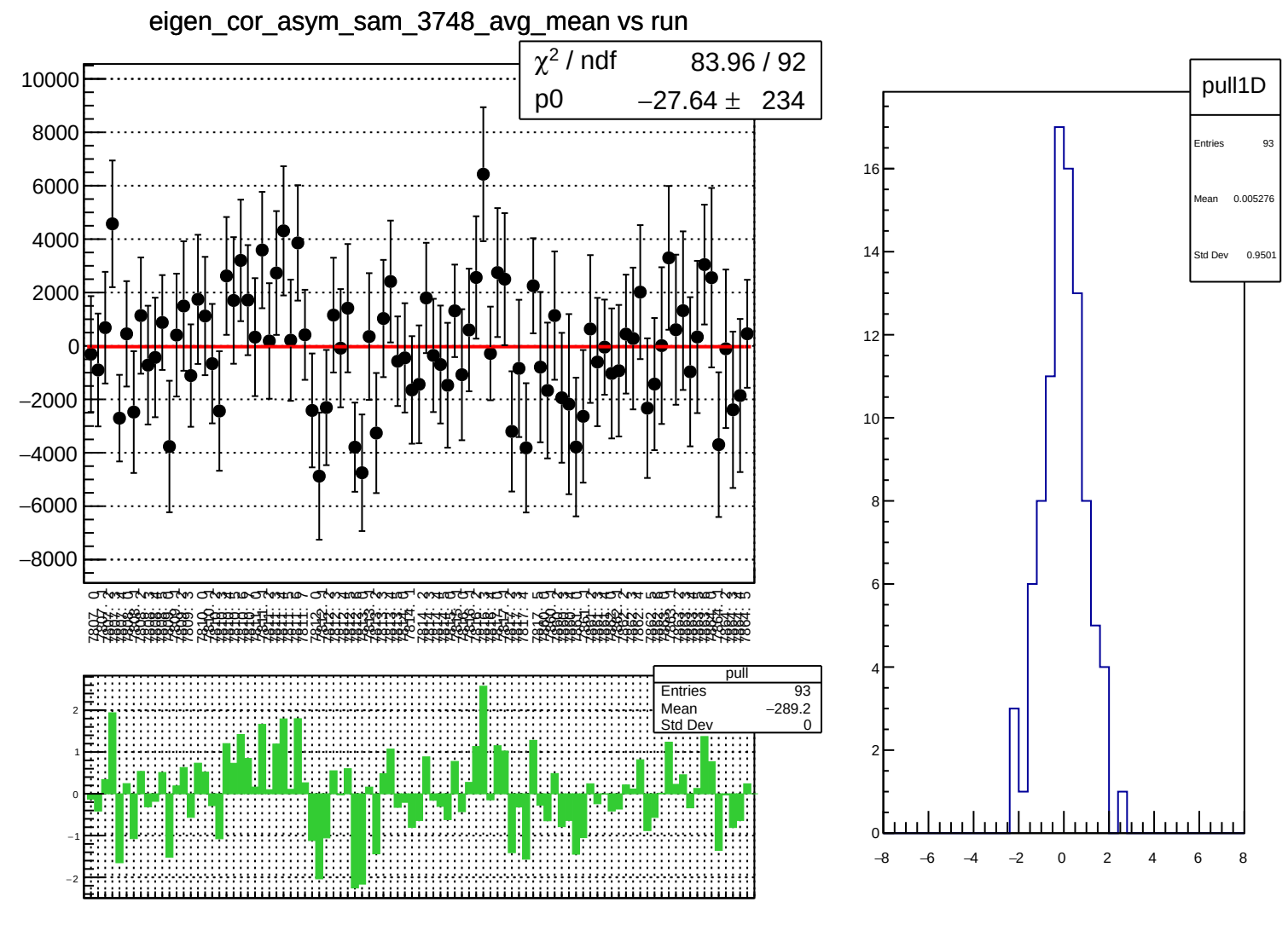

cor_asym_sam_3748_avg_mean vs run
χ² / ndf 83.96 / 92
p0 −27.64 ± 234
pull
Entries 93
Mean −289.2
Std Dev 0

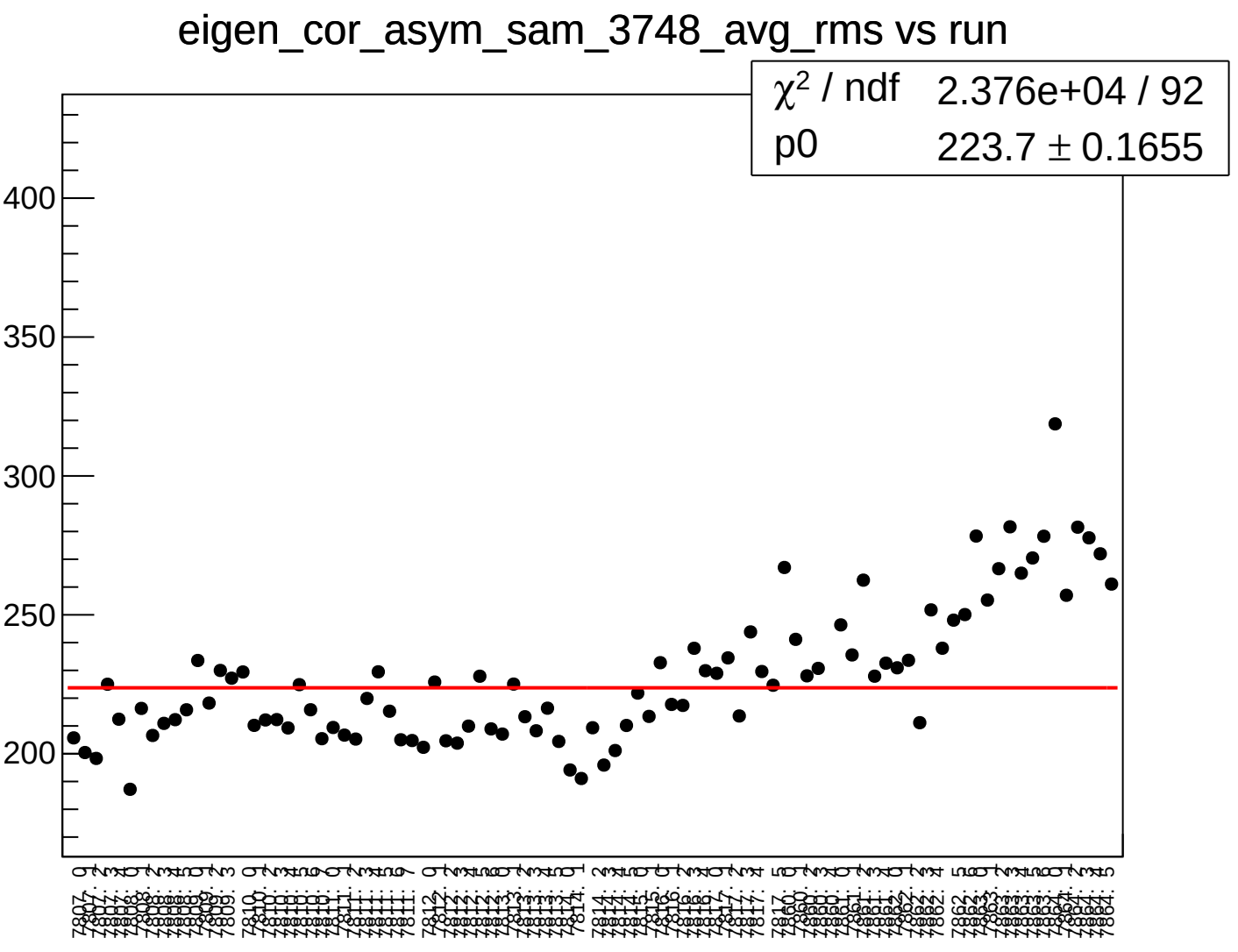

pull1D
Entries 93
Mean 0.005276
Std Dev 0.9501

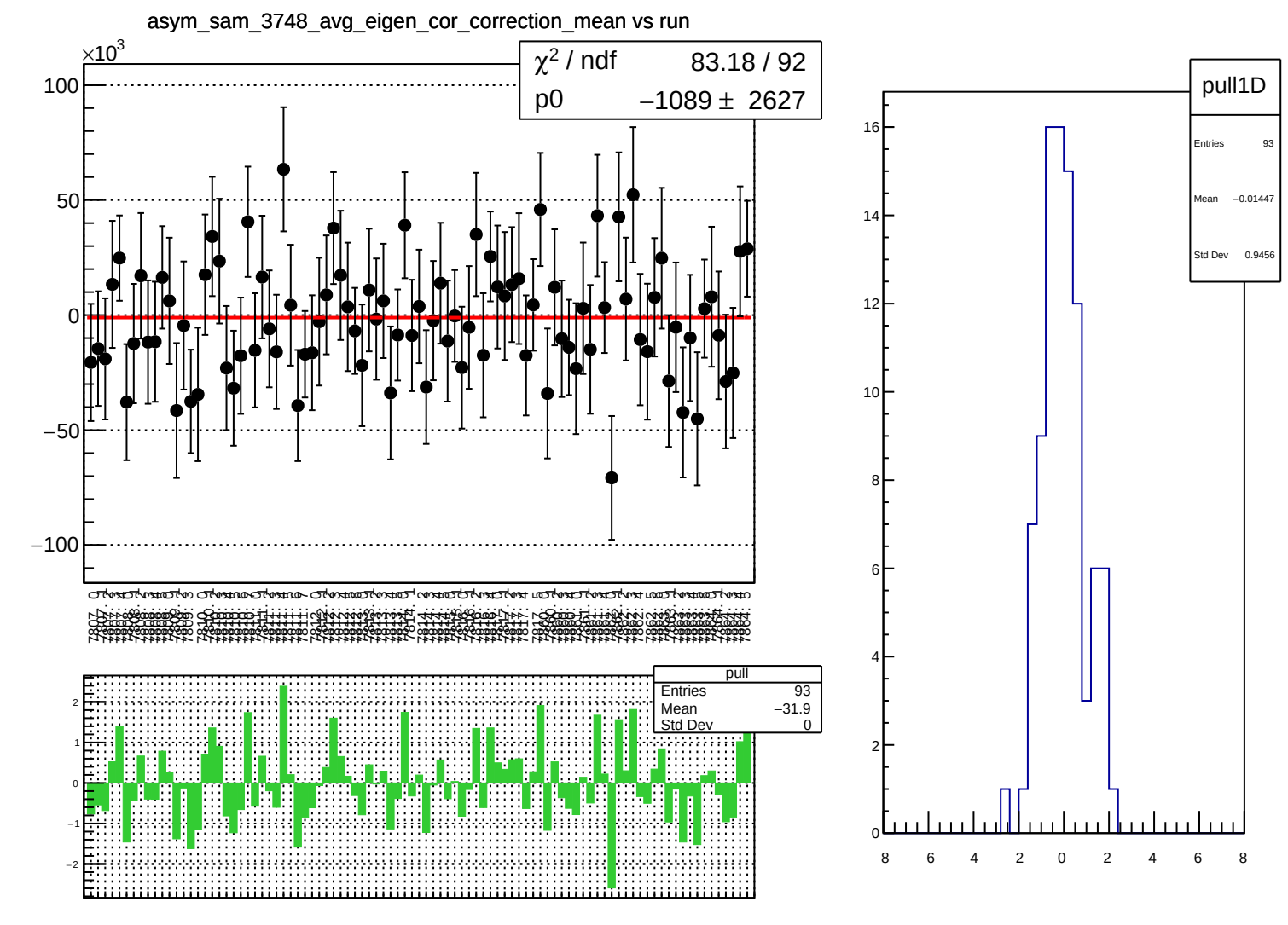

cor_asym_sam_3748_avg_rms vs run
χ² / ndf 2.376e+04 / 92
p0 223.7 ± 0.1655
400
350
300
250
200

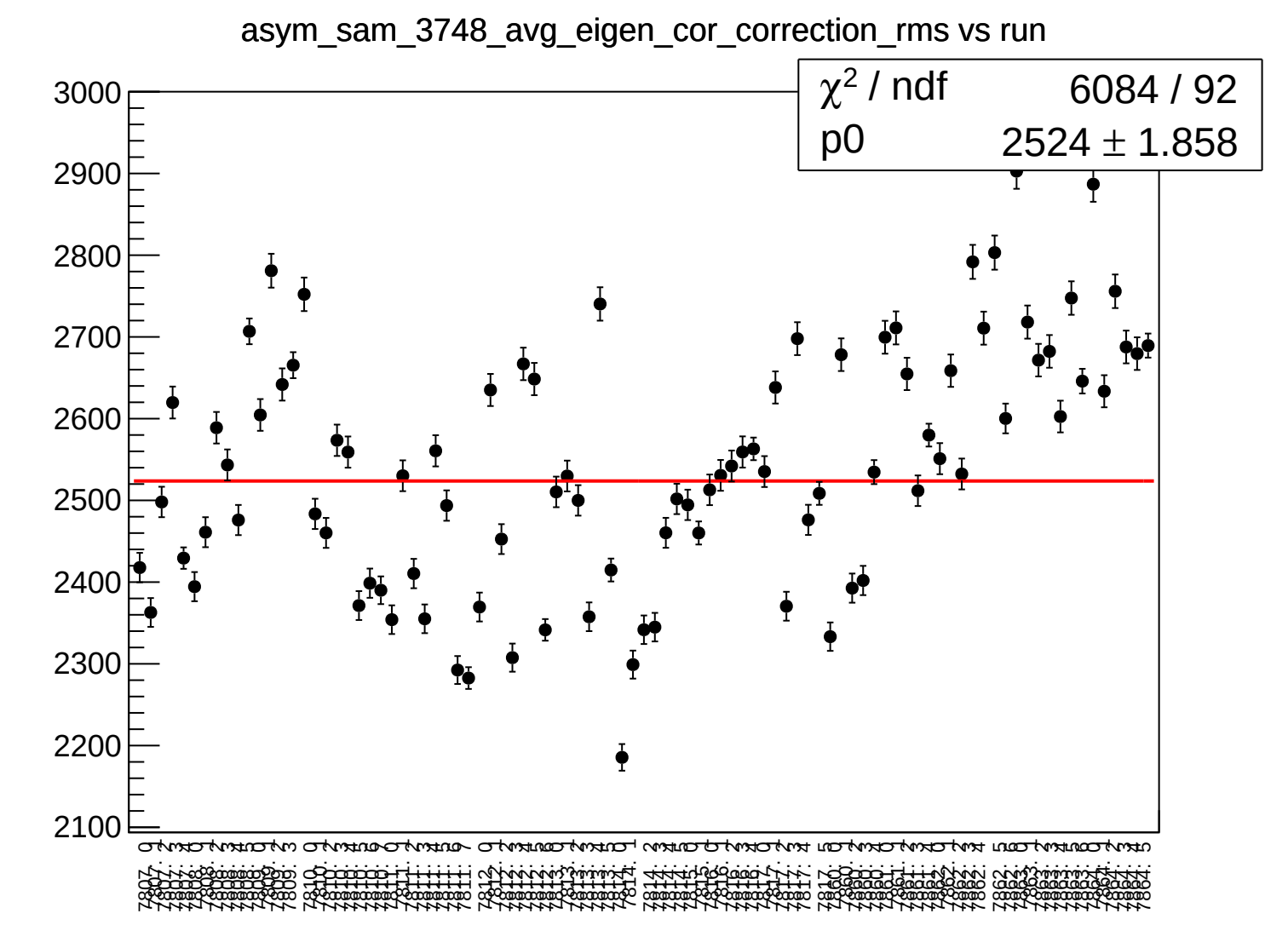

asym_sam_3748_avg_cor_correction_mean vs run
×10^3
χ² / ndf 83.18 / 92
p0 −1089 ± 2627
100
50
0
−50
−100
pull
Entries 93
Mean −31.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.01447
Std Dev 0.9456
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

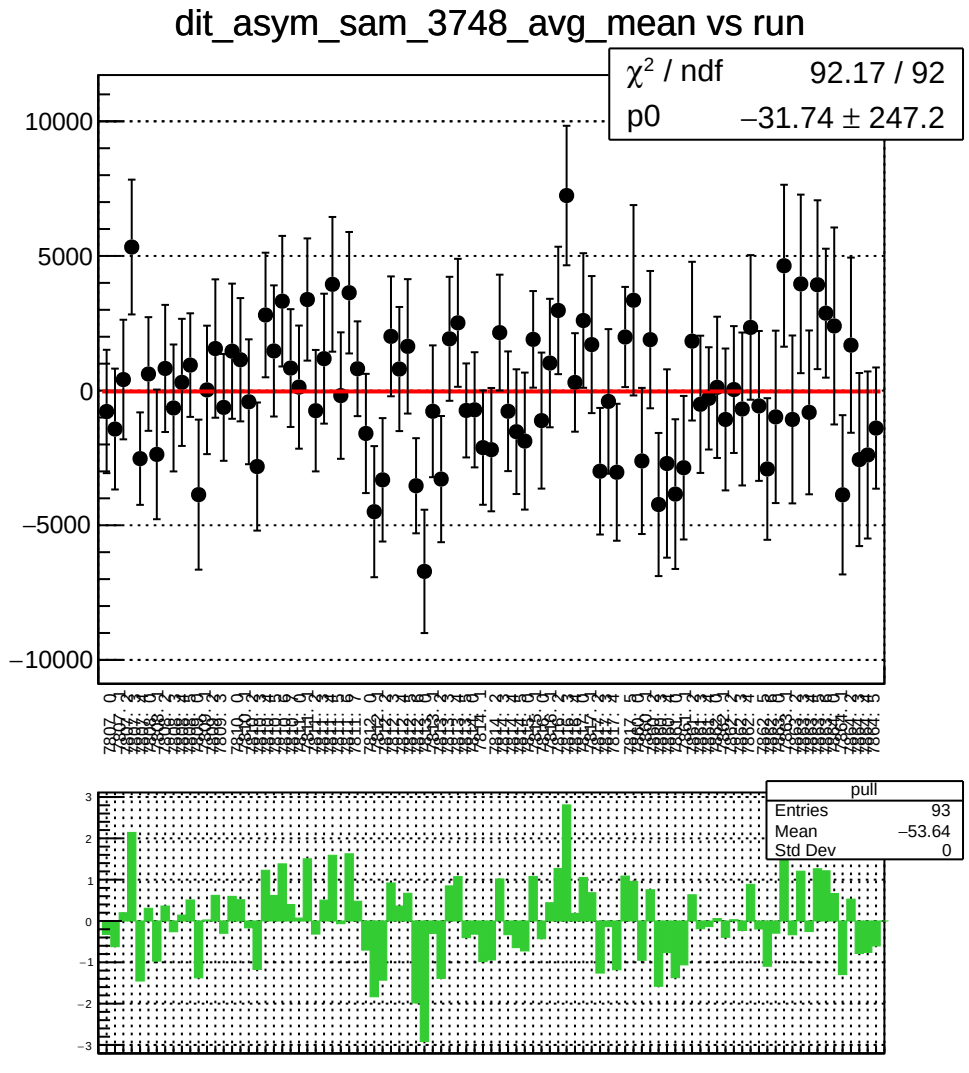

asym_sam_3748_avg_cor_correction_rms vs run
χ² / ndf 6084 / 92
p0 2524 ± 1.858
3000
2900
2800
2700
2600
2500
2400
2300
2200
2100

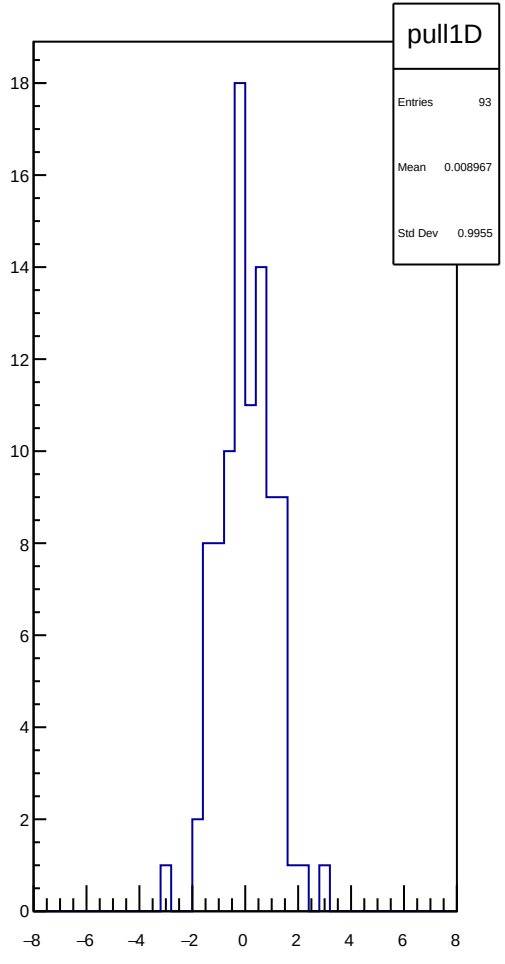

eigen_cor_asym_sam_3748_avg_mean vs run
χ² / ndf 83.96 / 92
p0 −27.64 ± 234
pull
Entries 93
Mean −289.2
Std Dev 0
pull1D
Entries 93
Mean 0.005276
Std Dev 0.9501

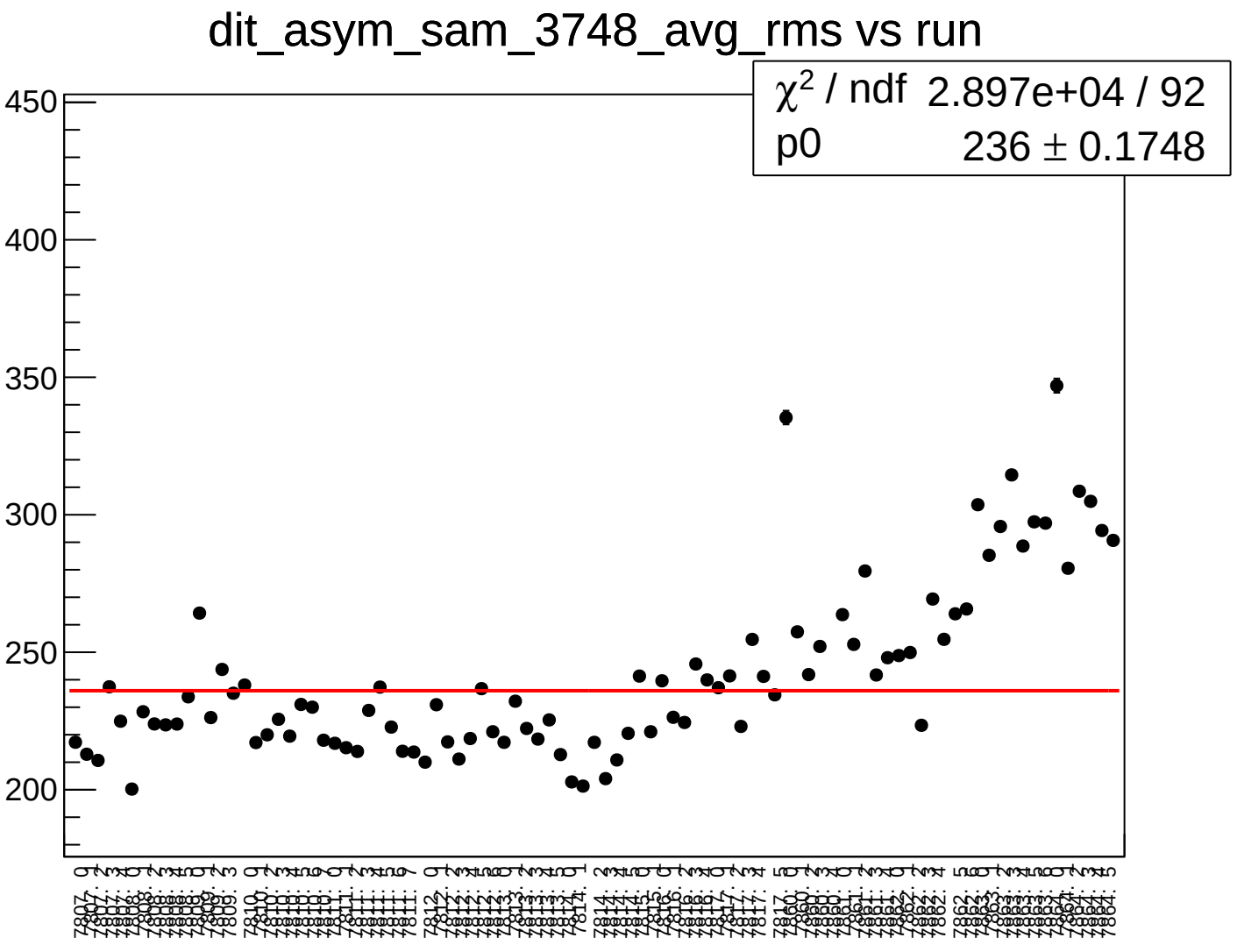

eigen_cor_asym_sam_3748_avg_rms vs run
χ² / ndf 2.376e+04 / 92
p0 223.7 ± 0.1655
400
350
300
250
200

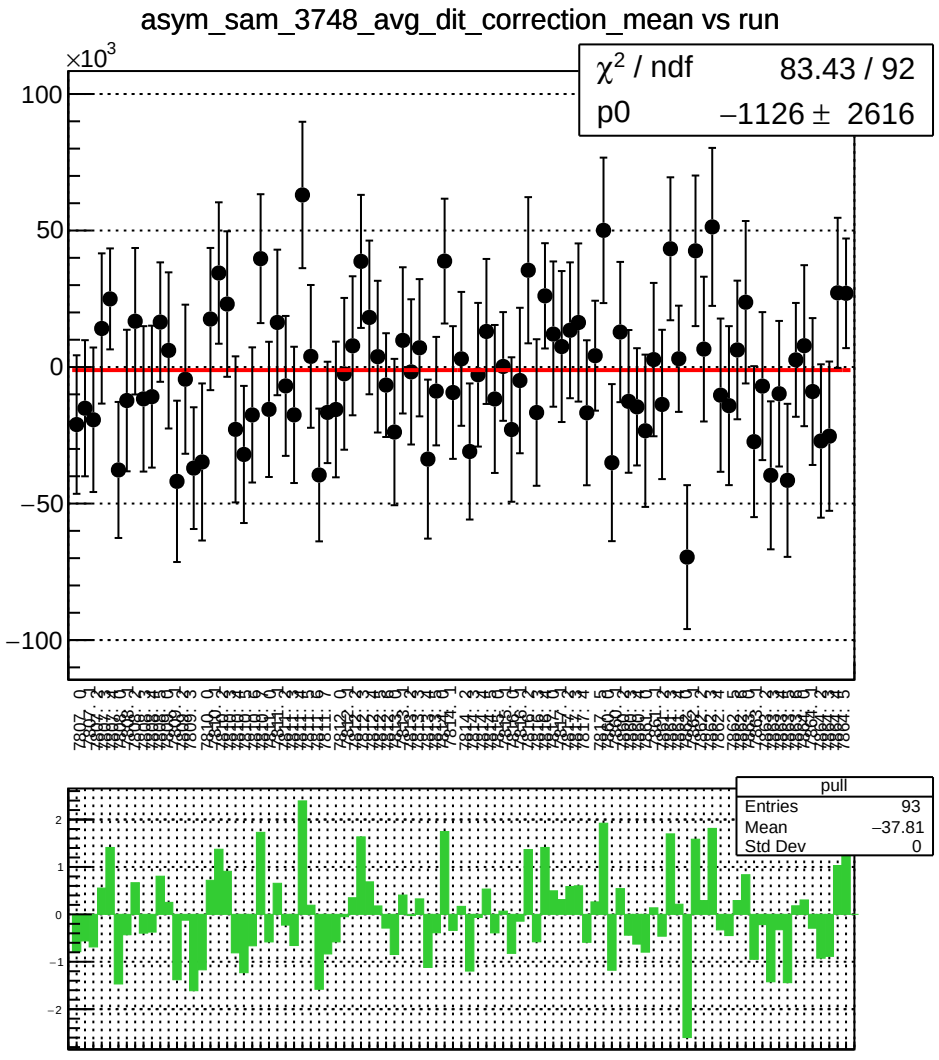

asym_sam_3748_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 83.18 / 92
p0 −1089 ± 2627
pull
Entries 93
Mean −31.9
Std Dev 0
pull1D
Entries 93
Mean −0.01447
Std Dev 0.9456

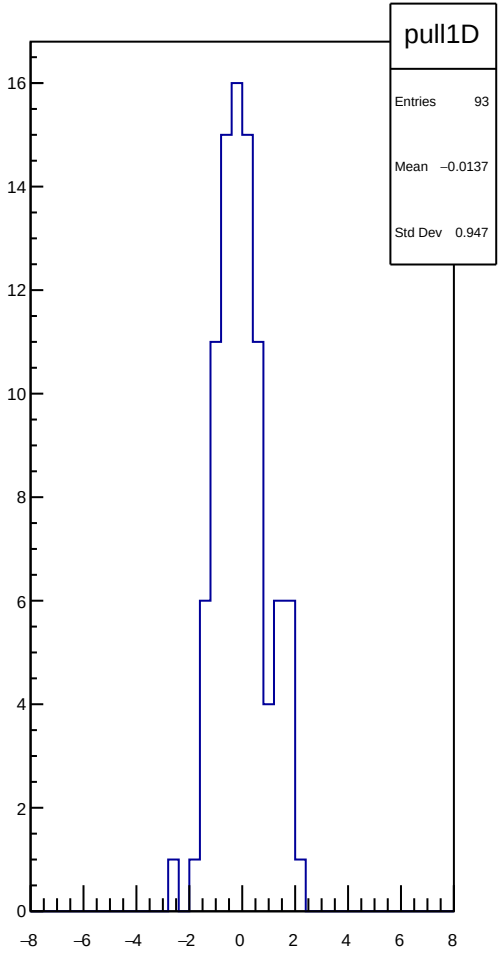

asym_sam_3748_avg_eigen_cor_correction_rms vs run
χ² / ndf 6084 / 92
p0 2524 ± 1.858
3000
2900
2800
2700
2600
2500
2400
2300
2200
2100

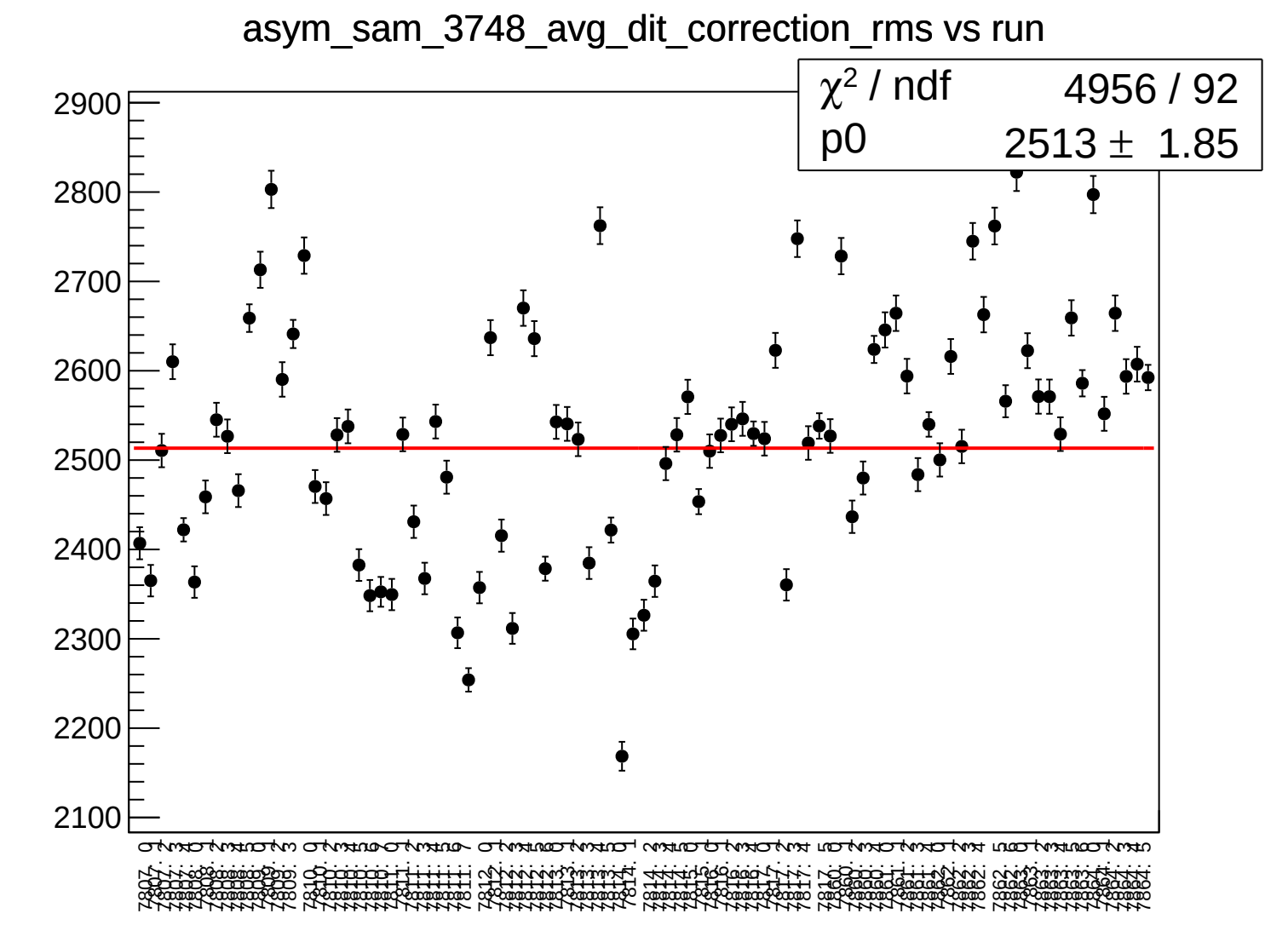

dit_asym_sam_3748_avg_mean vs run
χ² / ndf 92.17 / 92
p0 −31.74 ± 247.2
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −53.64
Std Dev 0
3
2
1
0
−1
−2
−3

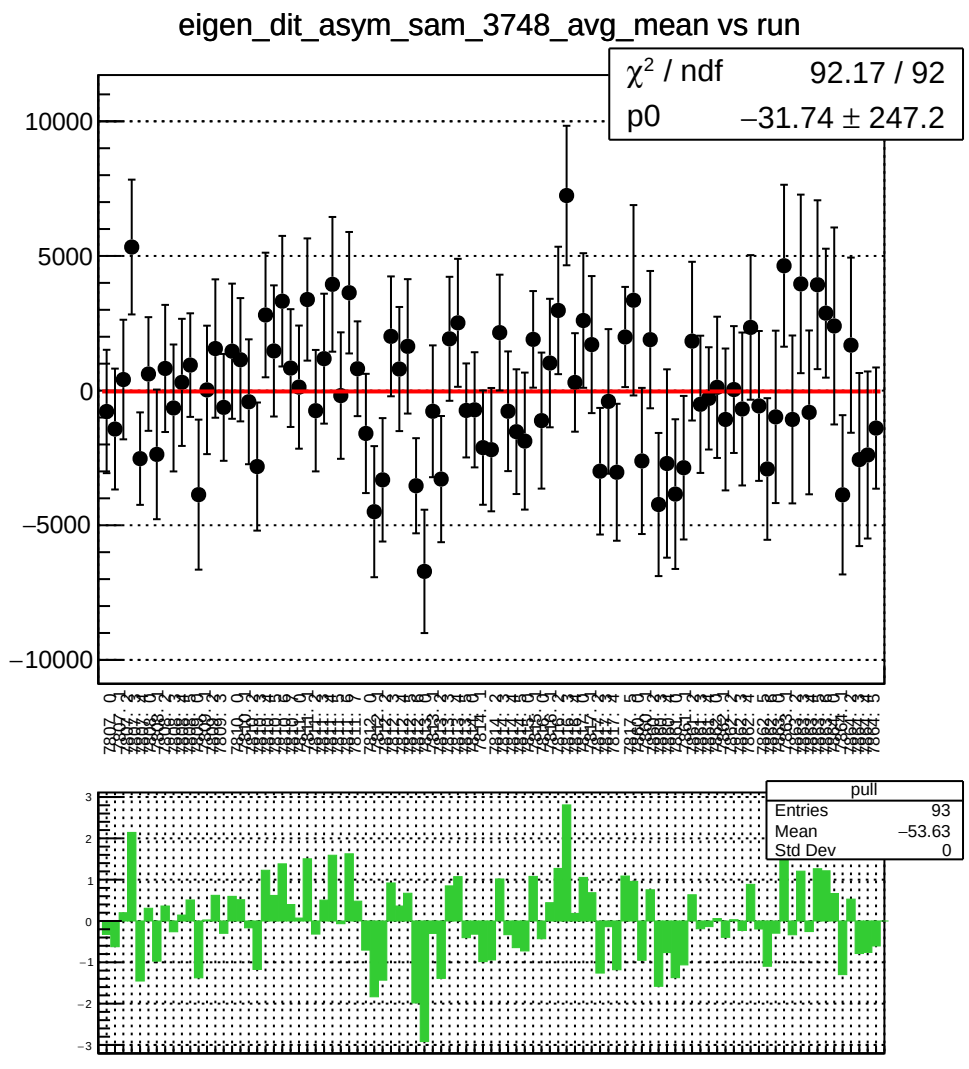

pull1D
Entries 93
Mean 0.008967
Std Dev 0.9955
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

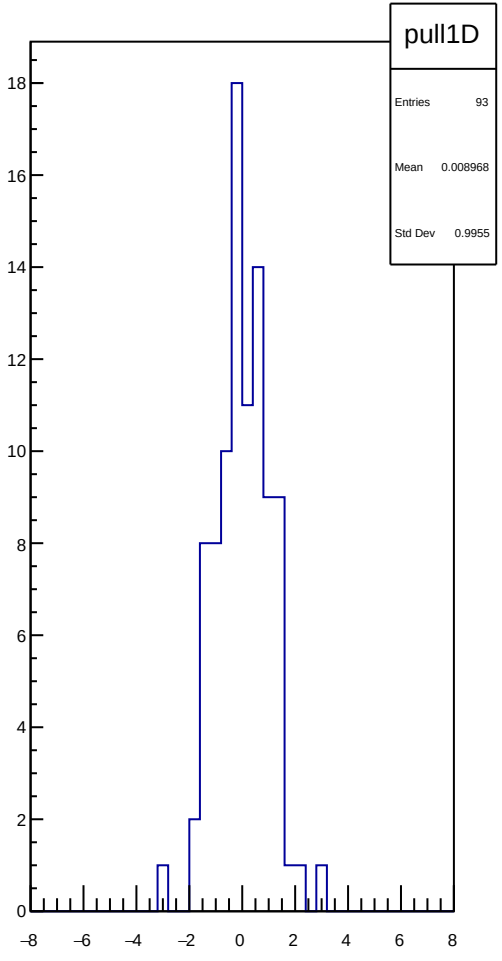

dit_asym_sam_3748_avg_rms vs run
χ² / ndf 2.897e+04 / 92
p0 236 ± 0.1748
450
400
350
300
250
200

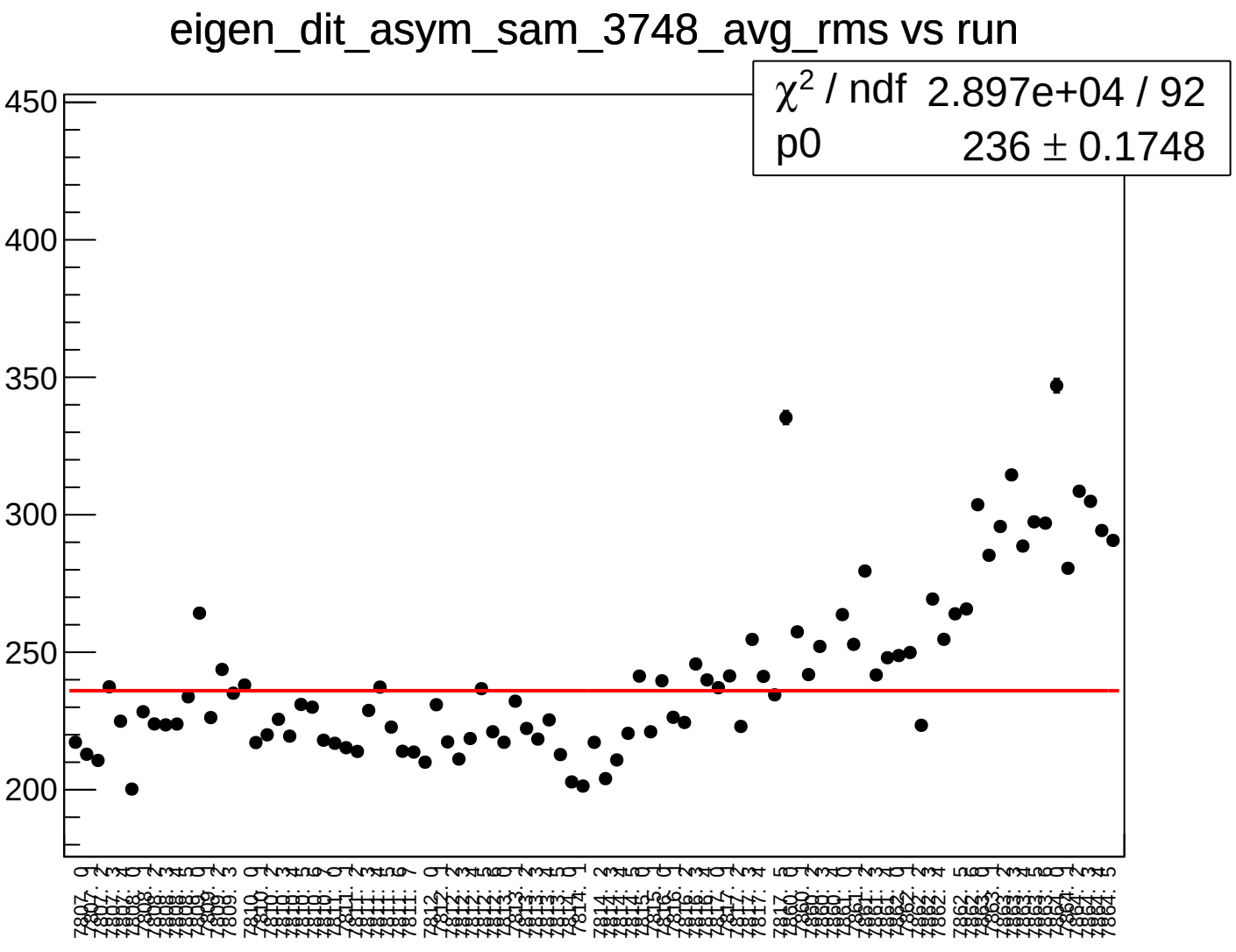

asym_sam_3748_avg_dit_correction_mean vs run
×10^3
χ² / ndf 83.43 / 92
p0 −1126 ± 2616
100
50
0
−50
−100
pull
Entries 93
Mean −37.81
Std Dev 0
2
1
0
−1
−2

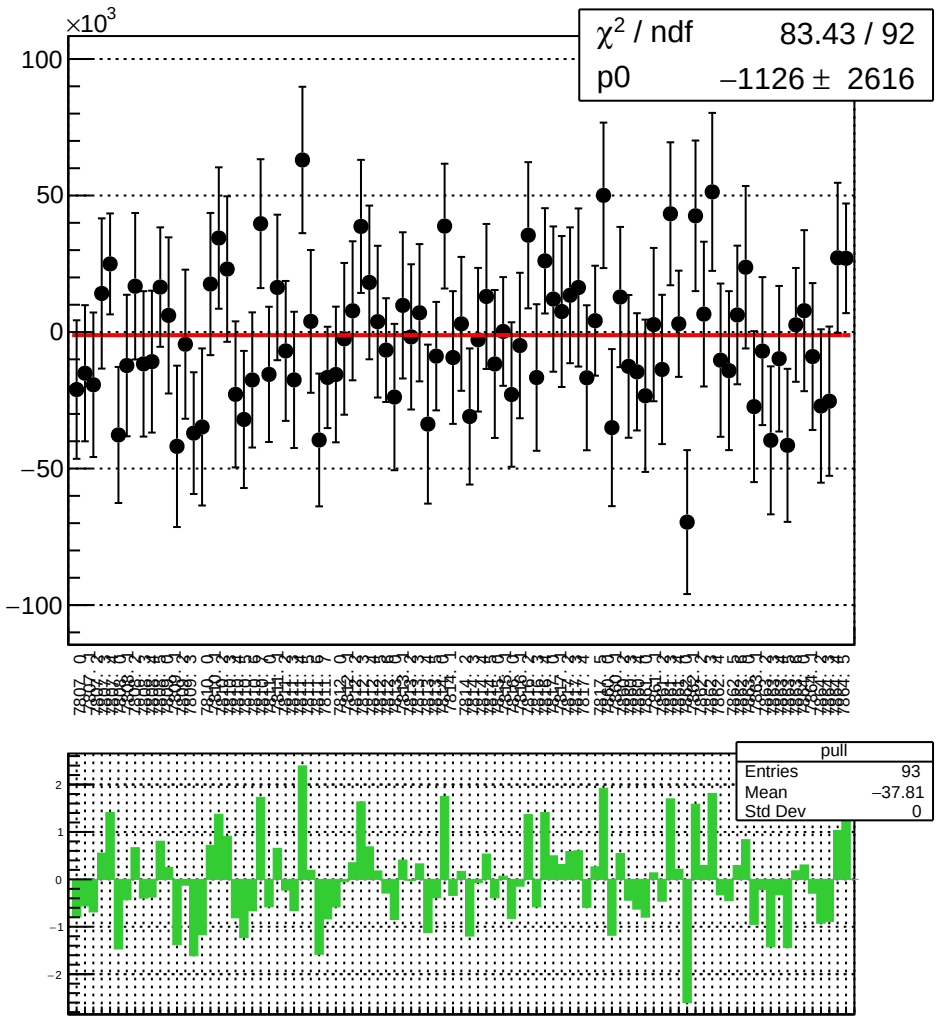

pull1D
Entries 93
Mean −0.0137
Std Dev 0.947
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

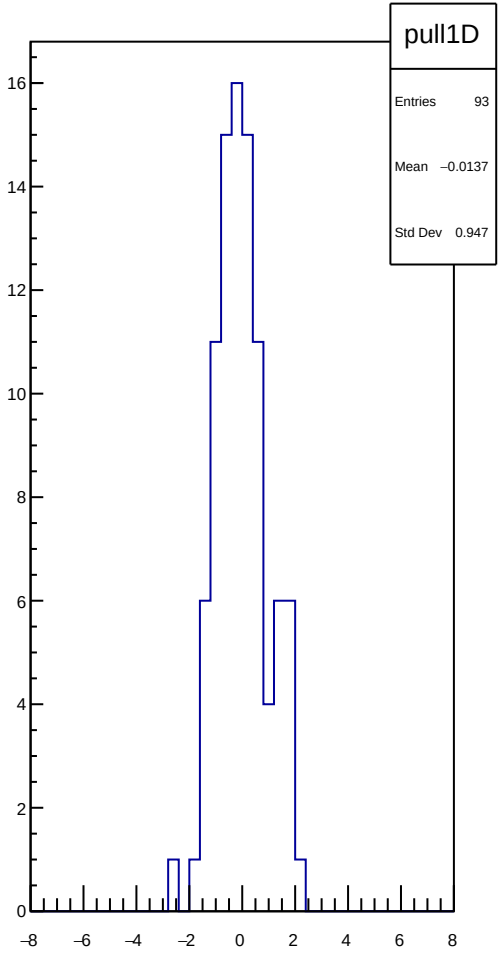

asym_sam_3748_avg_dit_correction_rms vs run
χ² / ndf 4956 / 92
p0 2513 ± 1.85
2900
2800
2700
2600
2500
2400
2300
2200
2100

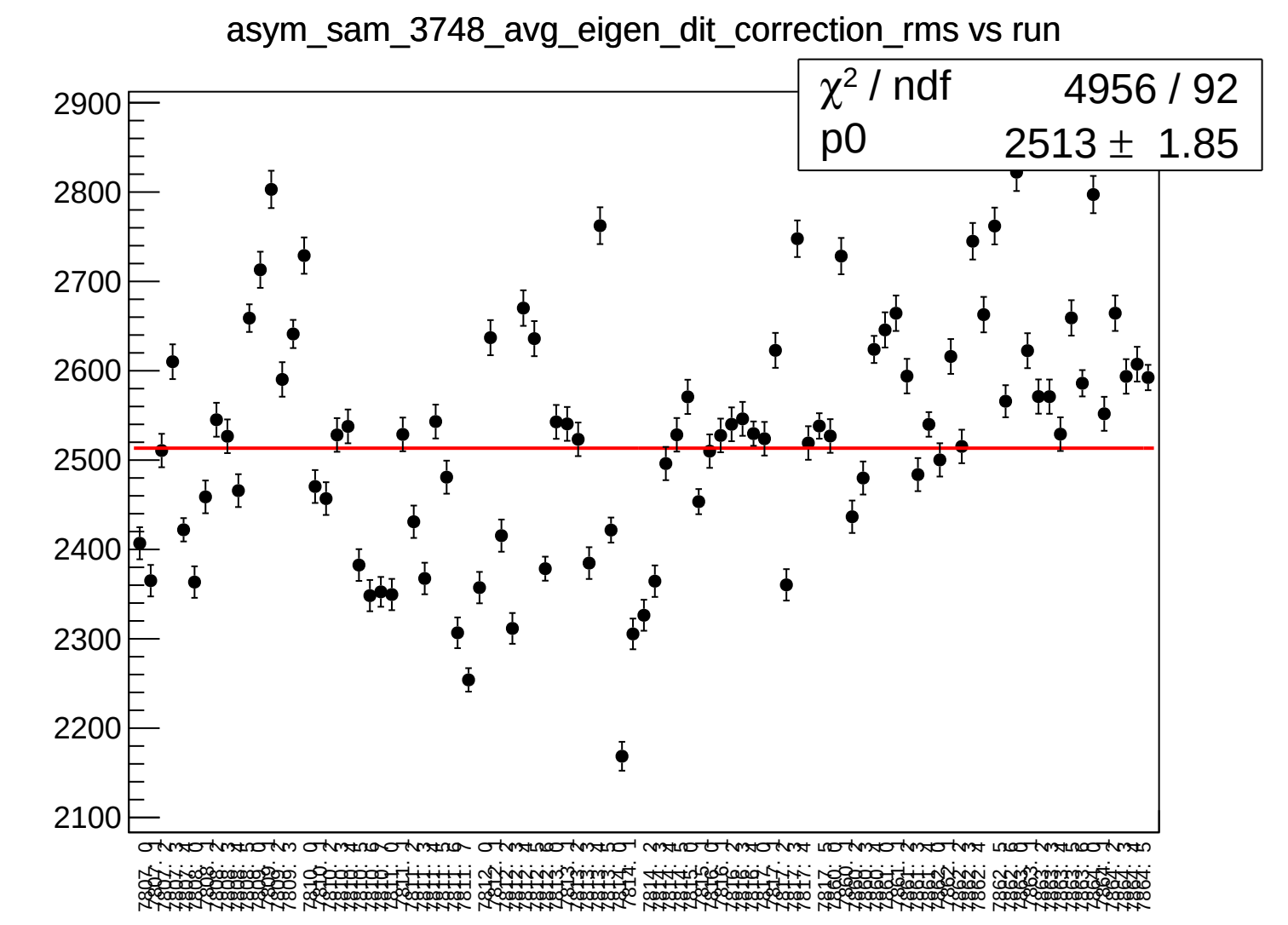

eigen_dit_asym_sam_3748_avg_mean vs run
χ² / ndf 92.17 / 92
p0 −31.74 ± 247.2
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −53.63
Std Dev 0
3
2
1
0
−1
−2
−3

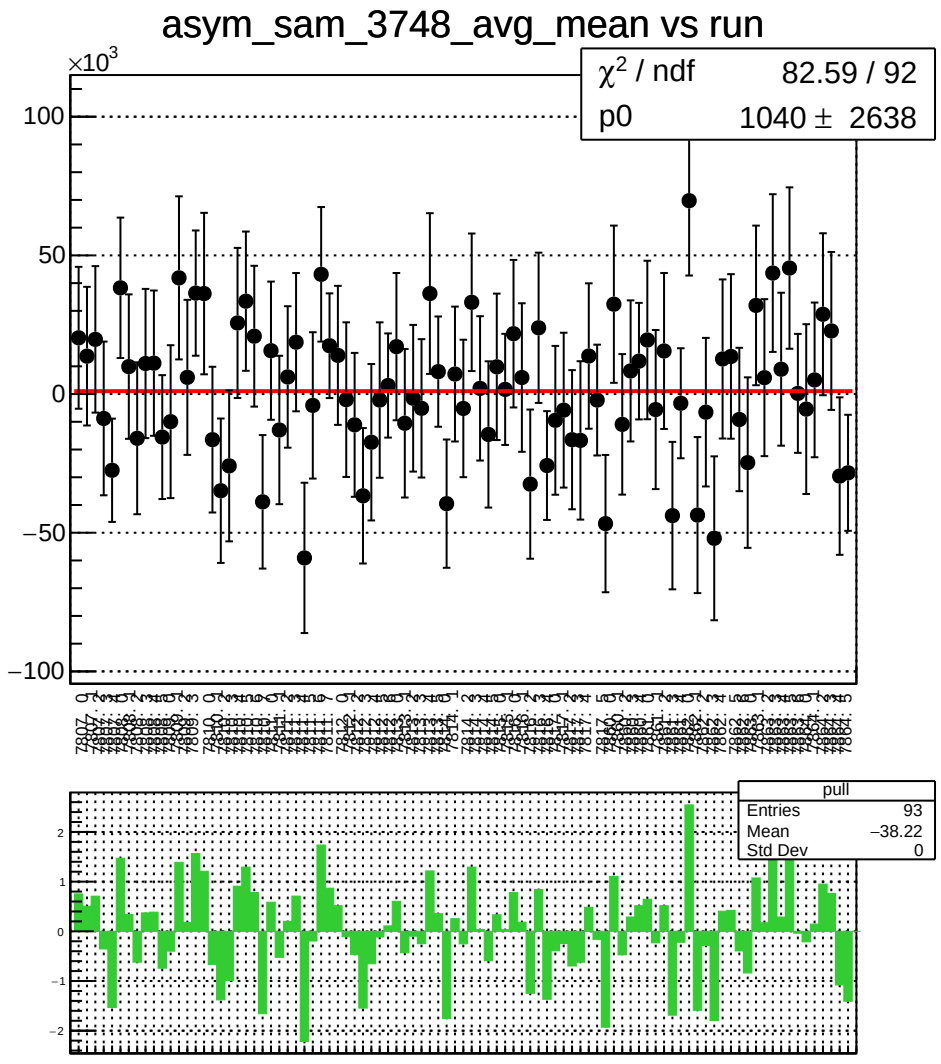

pull1D
Entries 93
Mean 0.008968
Std Dev 0.9955
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

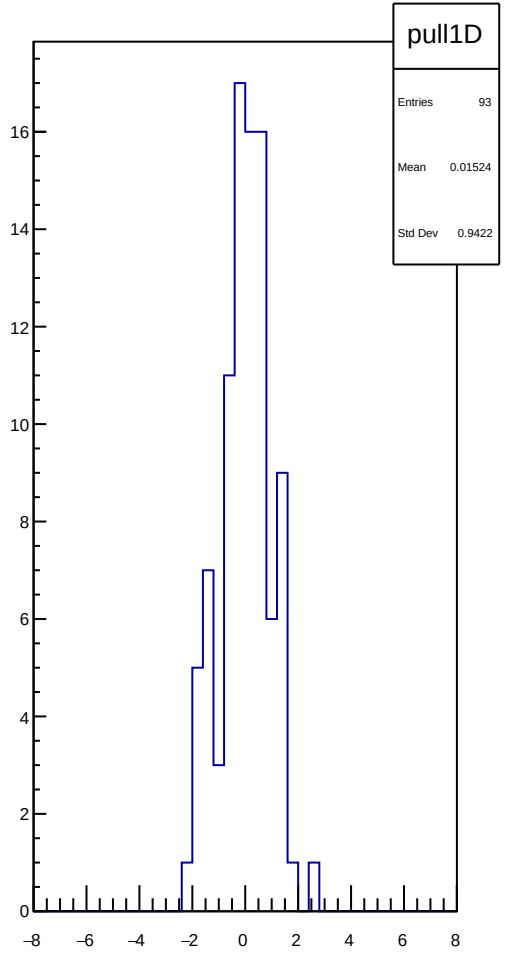

eigen_dit_asym_sam_3748_avg_rms vs run
χ² / ndf 2.897e+04 / 92
p0 236 ± 0.1748
450
400
350
300
250
200

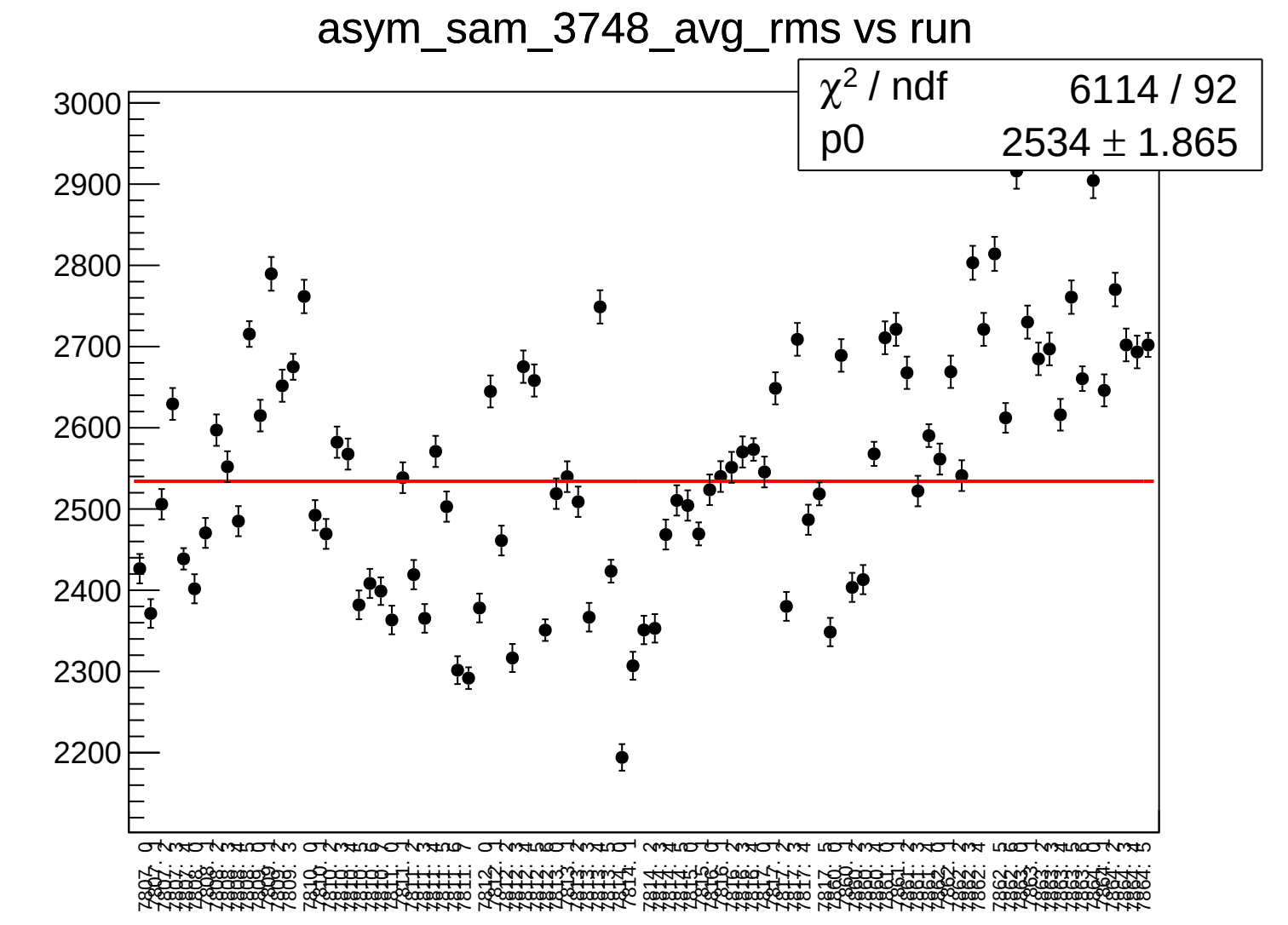

asym_sam_3748_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 83.43 / 92
p0 −1126 ± 2616
100
50
0
−50
−100
pull
Entries 93
Mean −37.81
Std Dev 0
2
1
0
−1
−2

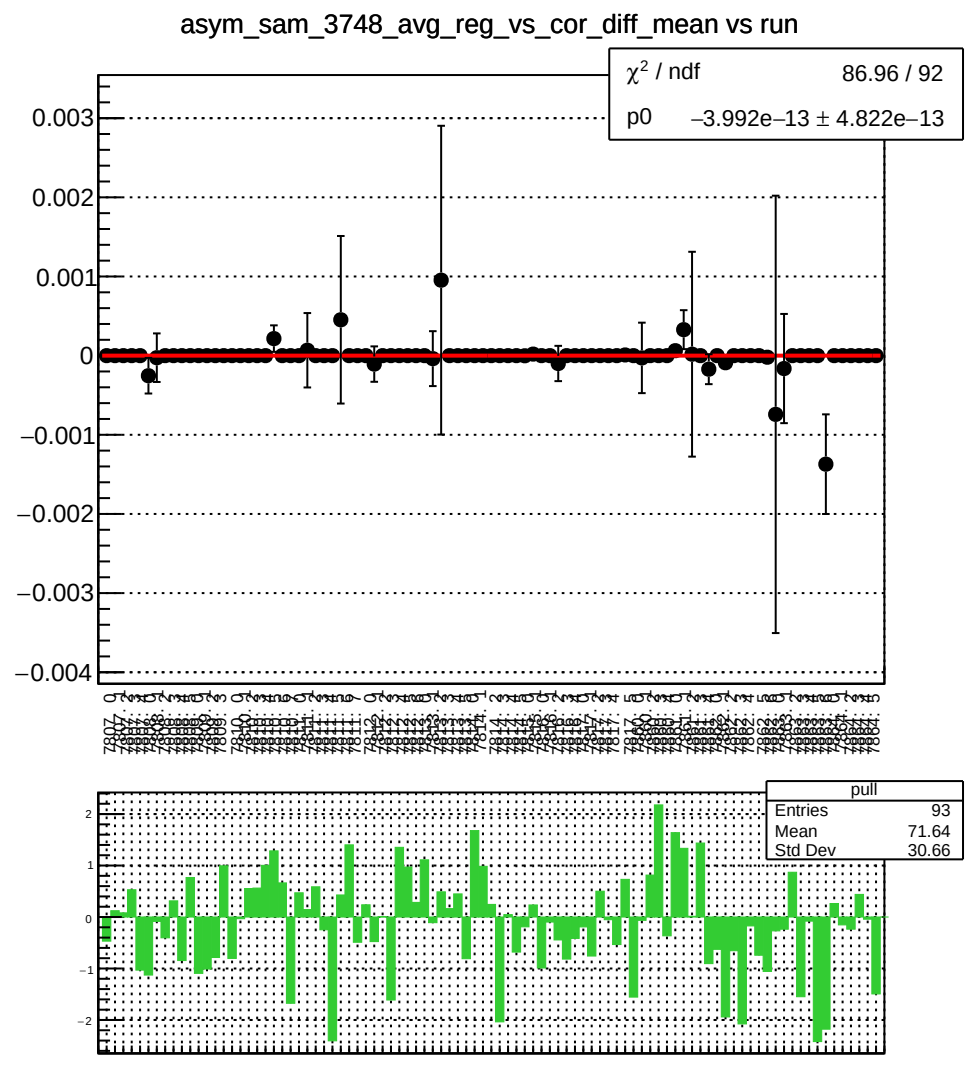

pull1D
Entries 93
Mean −0.0137
Std Dev 0.947
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

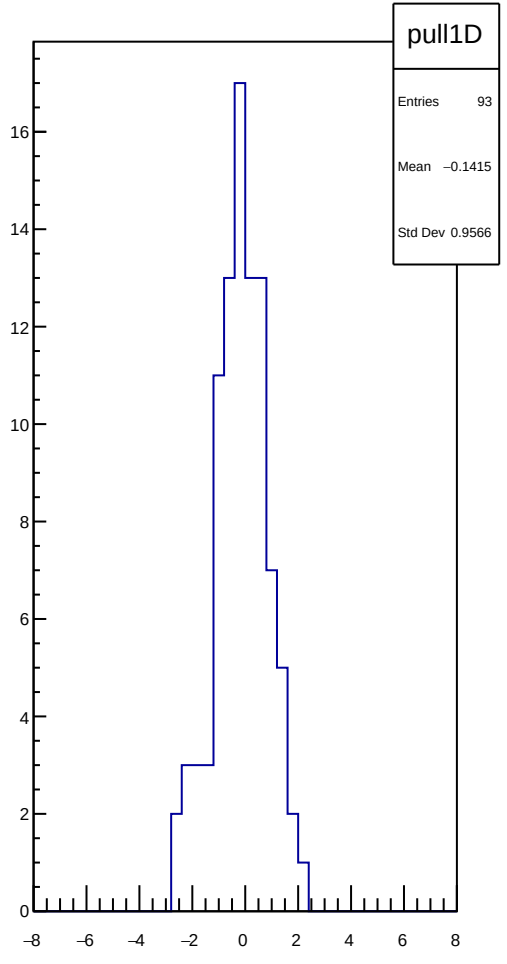

asym_sam_3748_avg_eigen_dit_correction_rms vs run
χ² / ndf 4956 / 92
p0 2513 ± 1.85
2900
2800
2700
2600
2500
2400
2300
2200
2100

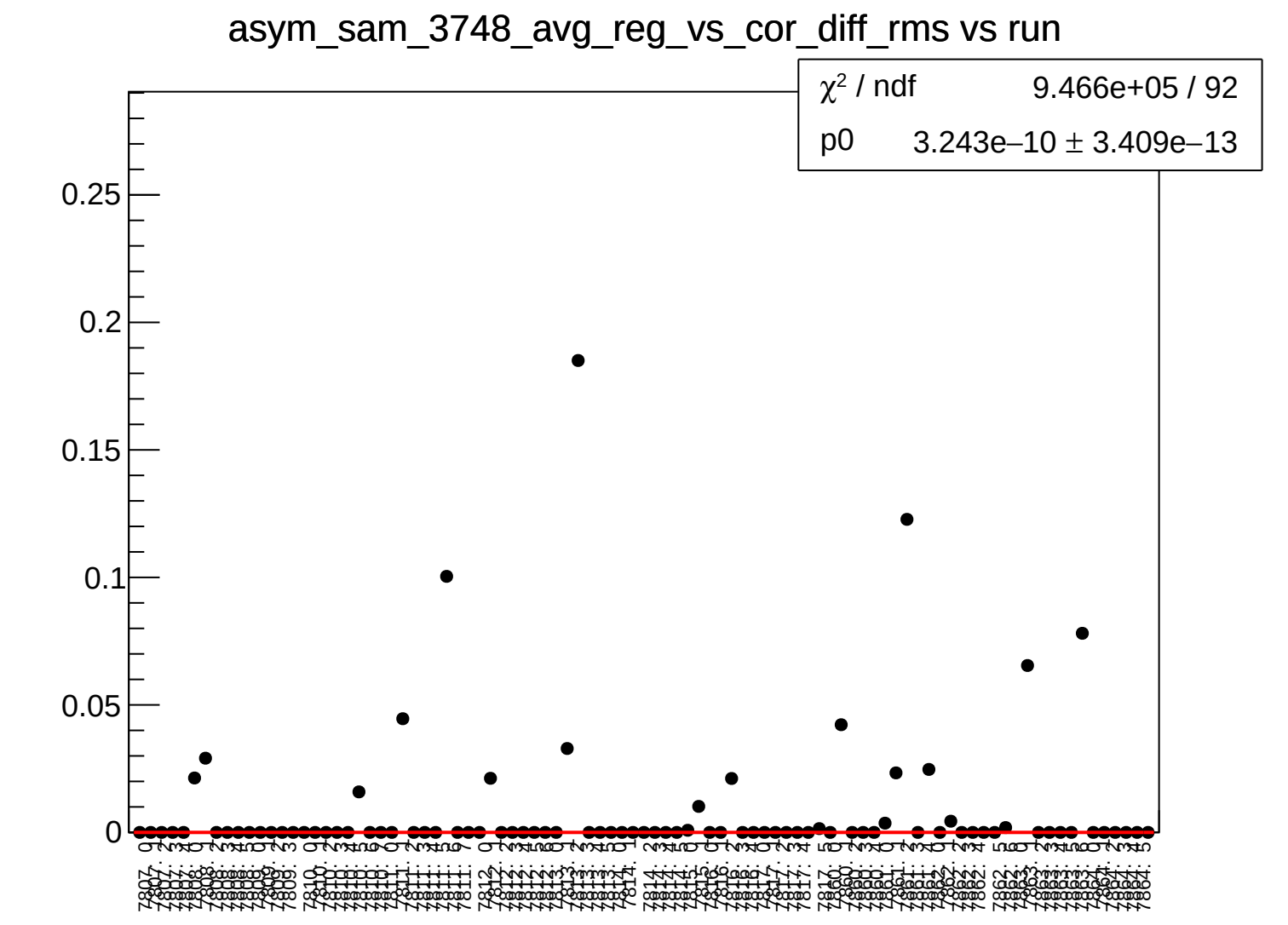

asym_sam_3748_avg_mean vs run
×10^3
χ² / ndf 82.59 / 92
p0 1040 ± 2638
100
50
0
−50
−100
pull
Entries 93
Mean −38.22
Std Dev 0
2
1
0
−1
−2

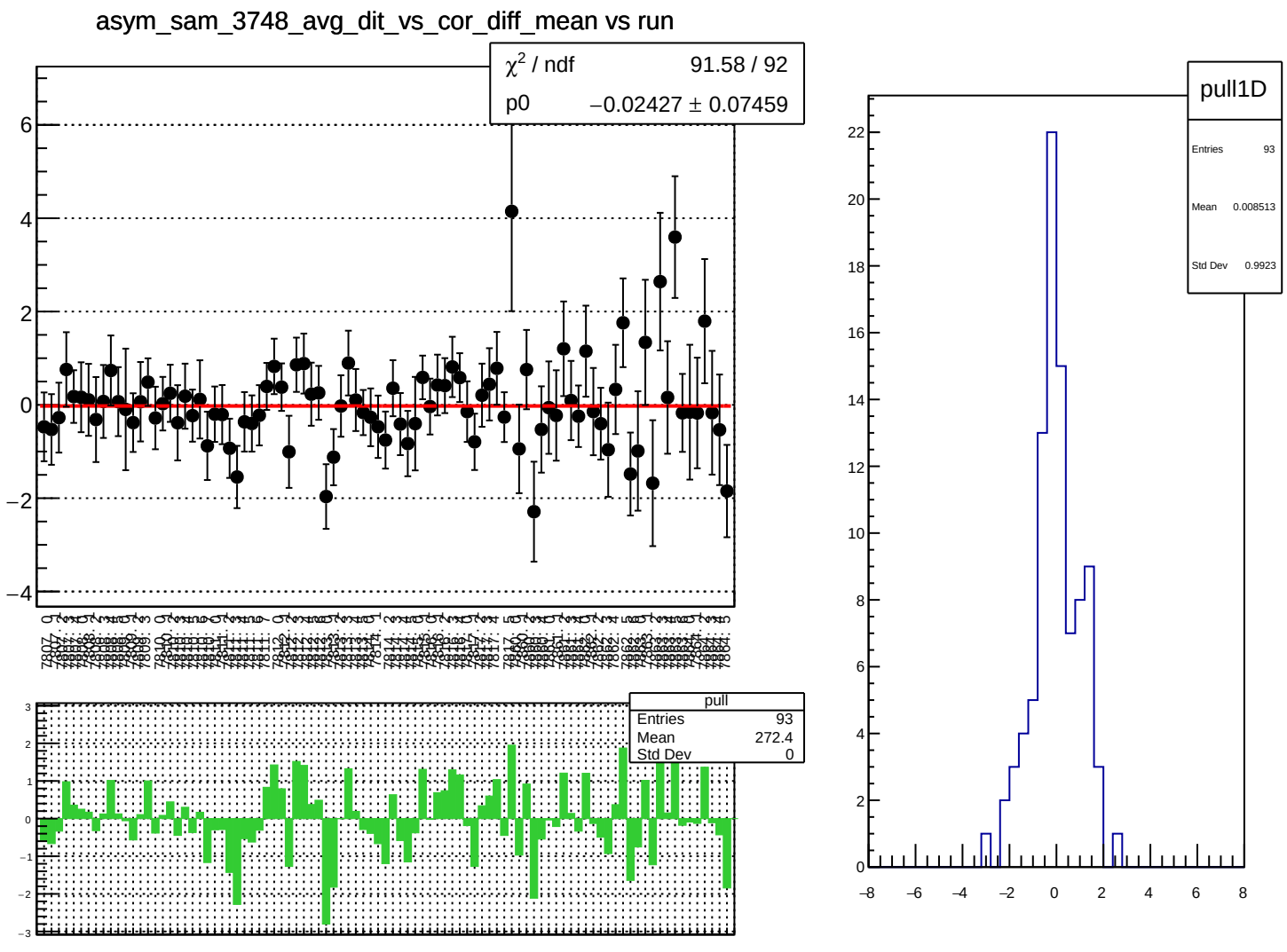

pull1D
Entries 93
Mean 0.01524
Std Dev 0.9422
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

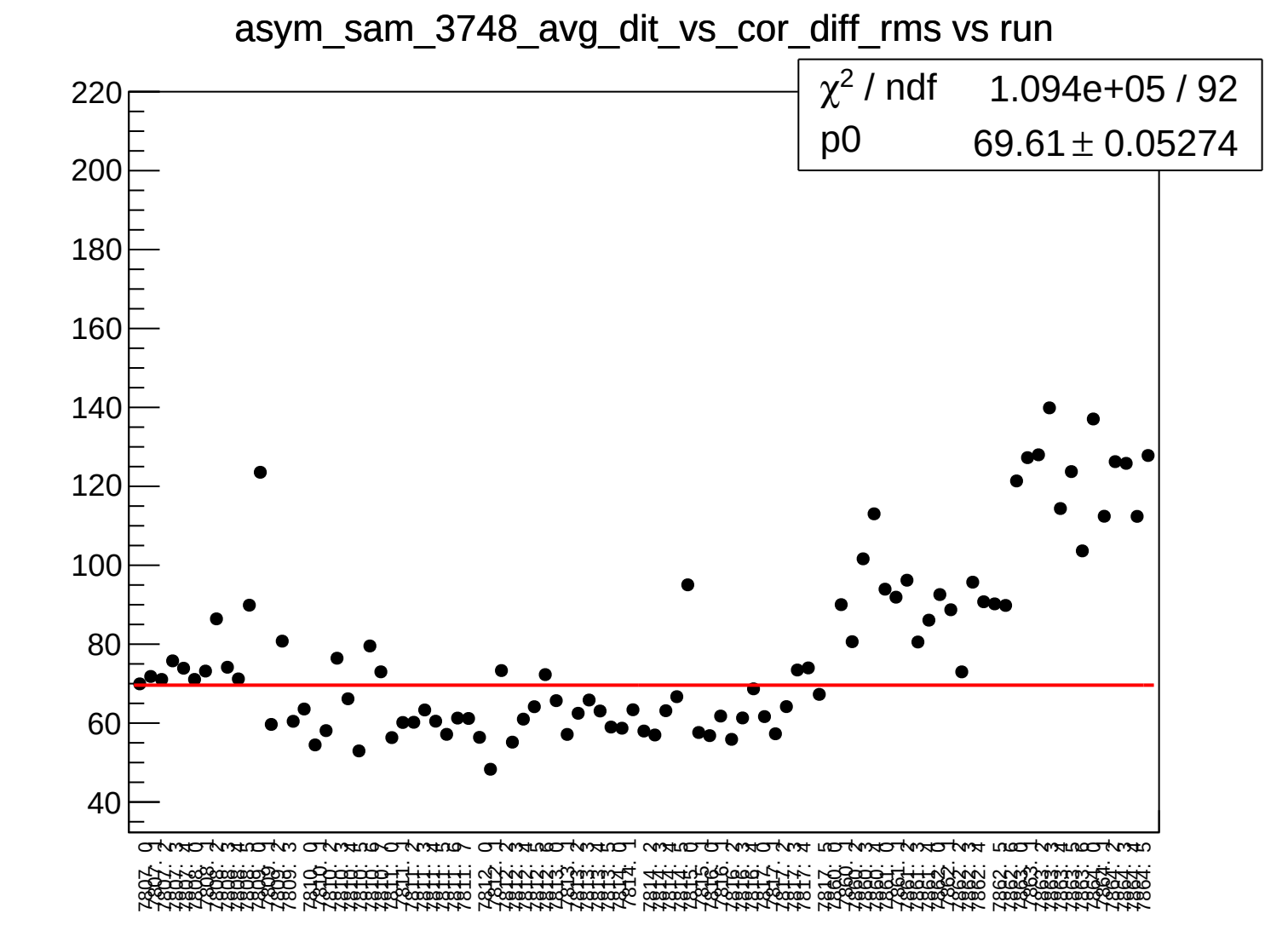

asym_sam_3748_avg_rms vs run
χ² / ndf 6114 / 92
p0 2534 ± 1.865
3000
2900
2800
2700
2600
2500
2400
2300
2200

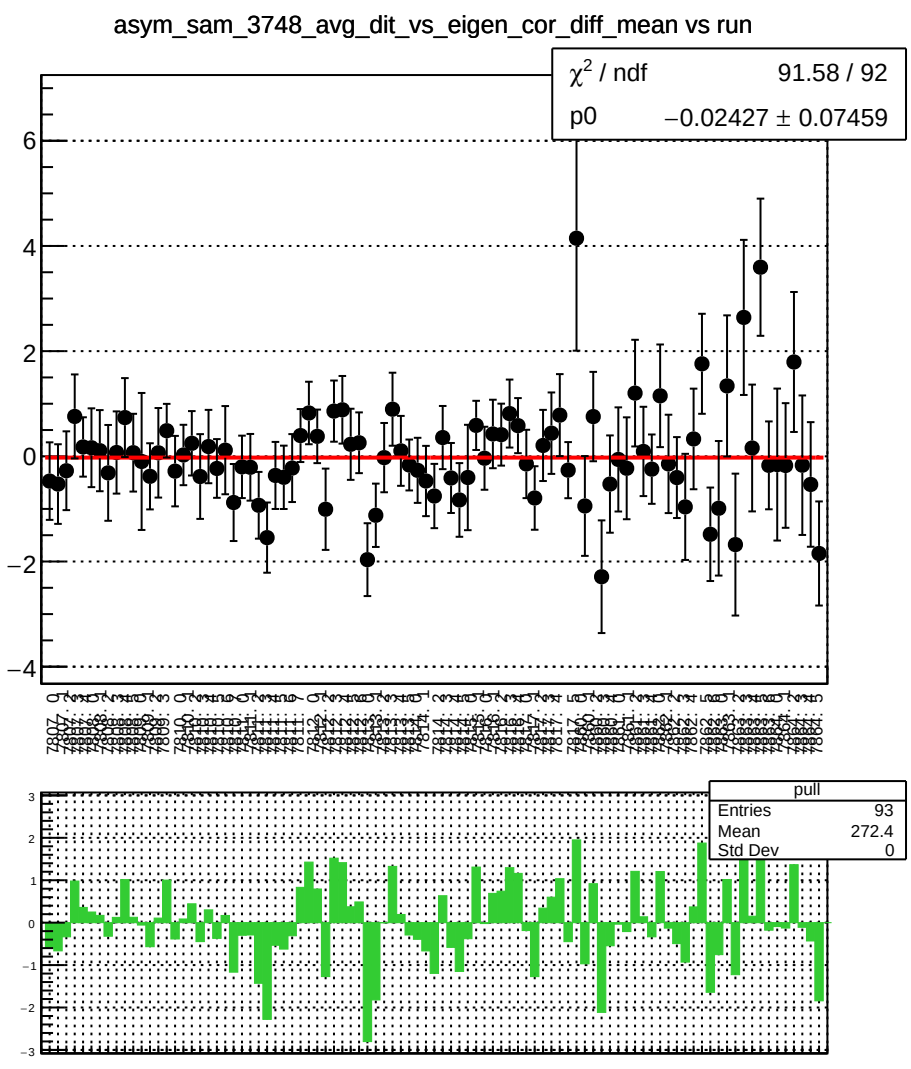

asym_sam_3748_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 86.96 / 92
p0 −3.992e−13 ± 4.822e−13
0.003
0.002
0.001
0
−0.001
−0.002
−0.003
−0.004
pull
Entries 93
Mean 71.64
Std Dev 30.66
2
1
0
−1
−2

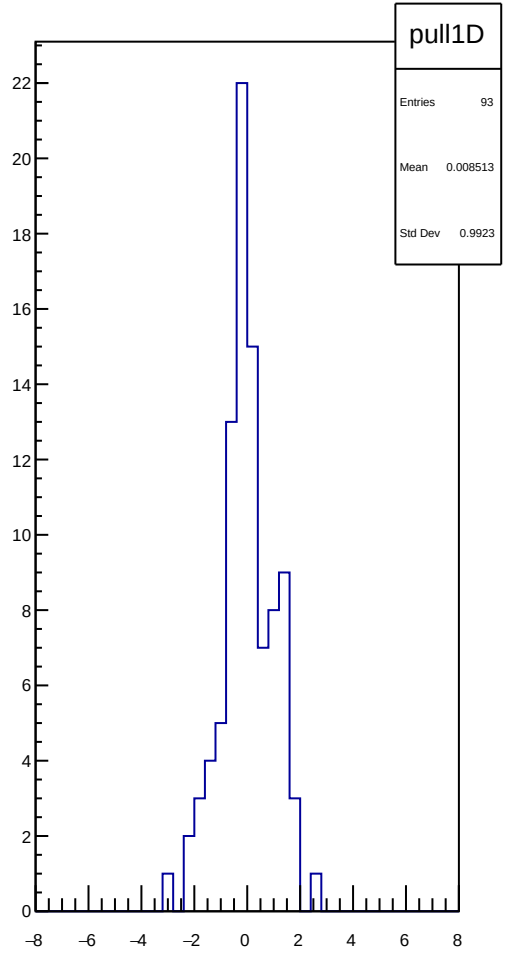

pull1D
Entries 93
Mean −0.1415
Std Dev 0.9566
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

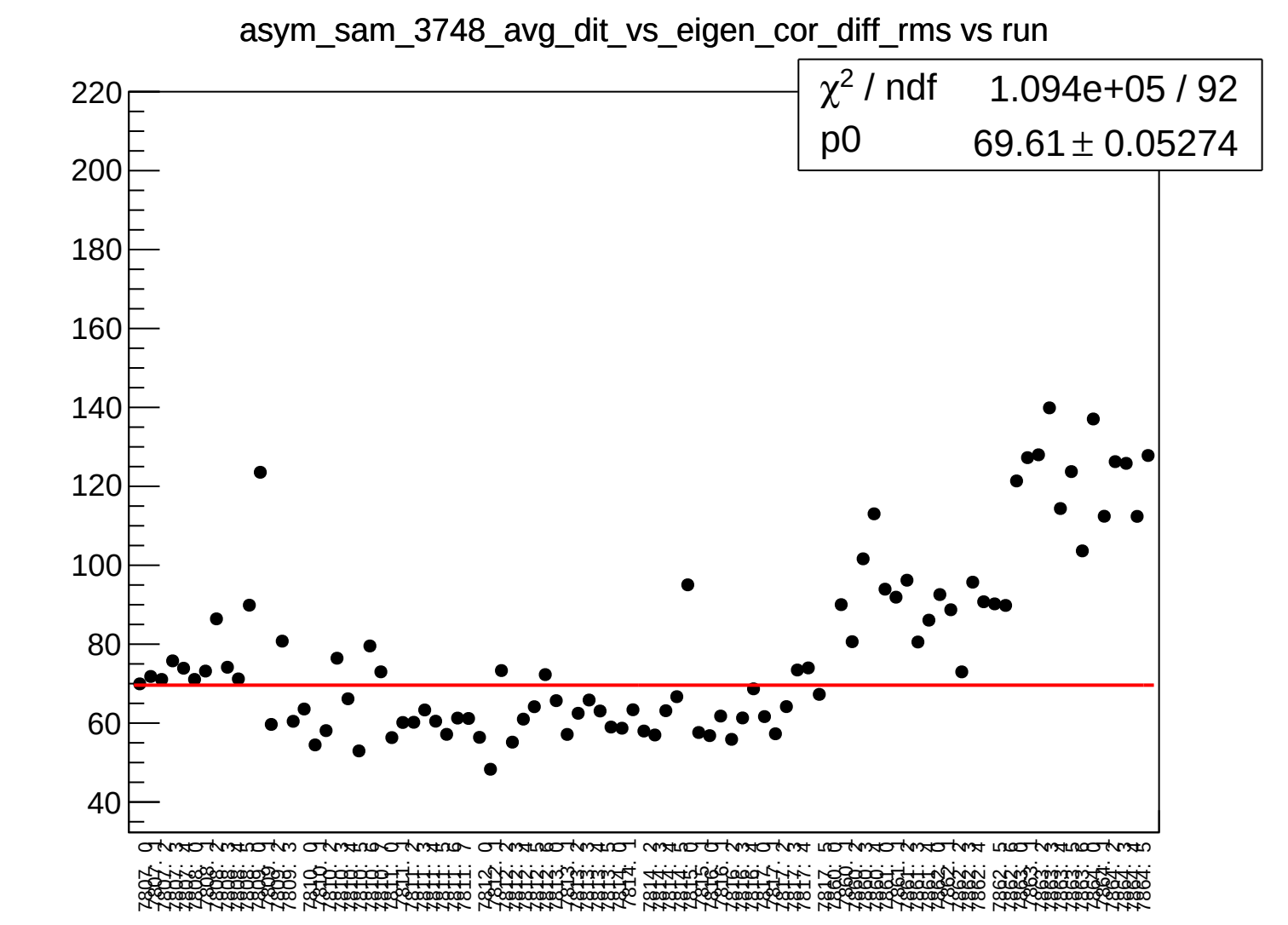

asym_sam_3748_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.466e+05 / 92
p0 3.243e−10 ± 3.409e−13
0.25
0.2
0.15
0.1
0.05
0

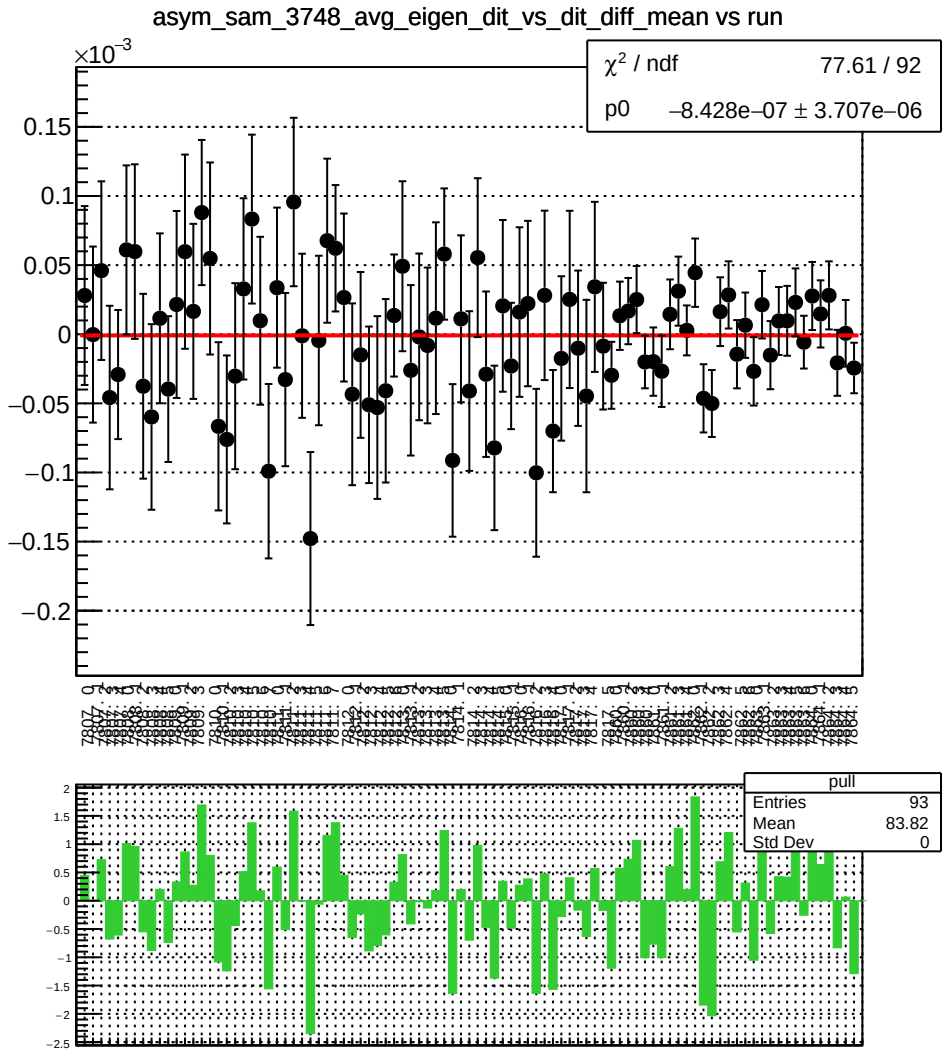

asym_sam_3748_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 91.58 / 92
p0 −0.02427 ± 0.07459
pull
Entries 93
Mean 272.4
Std Dev 0
pull1D
Entries 93
Mean 0.008513
Std Dev 0.9923

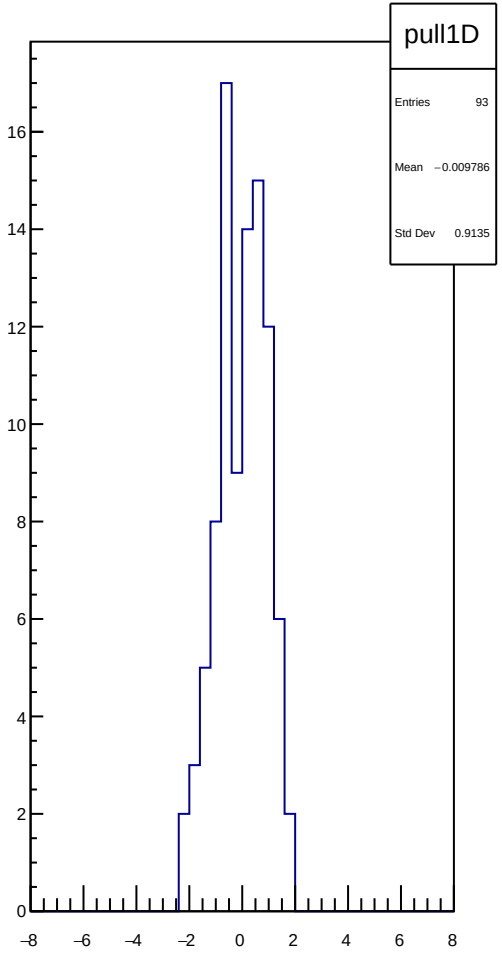

asym_sam_3748_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.094e+05 / 92
p0 69.61 ± 0.05274
220
200
180
160
140
120
100
80
60
40

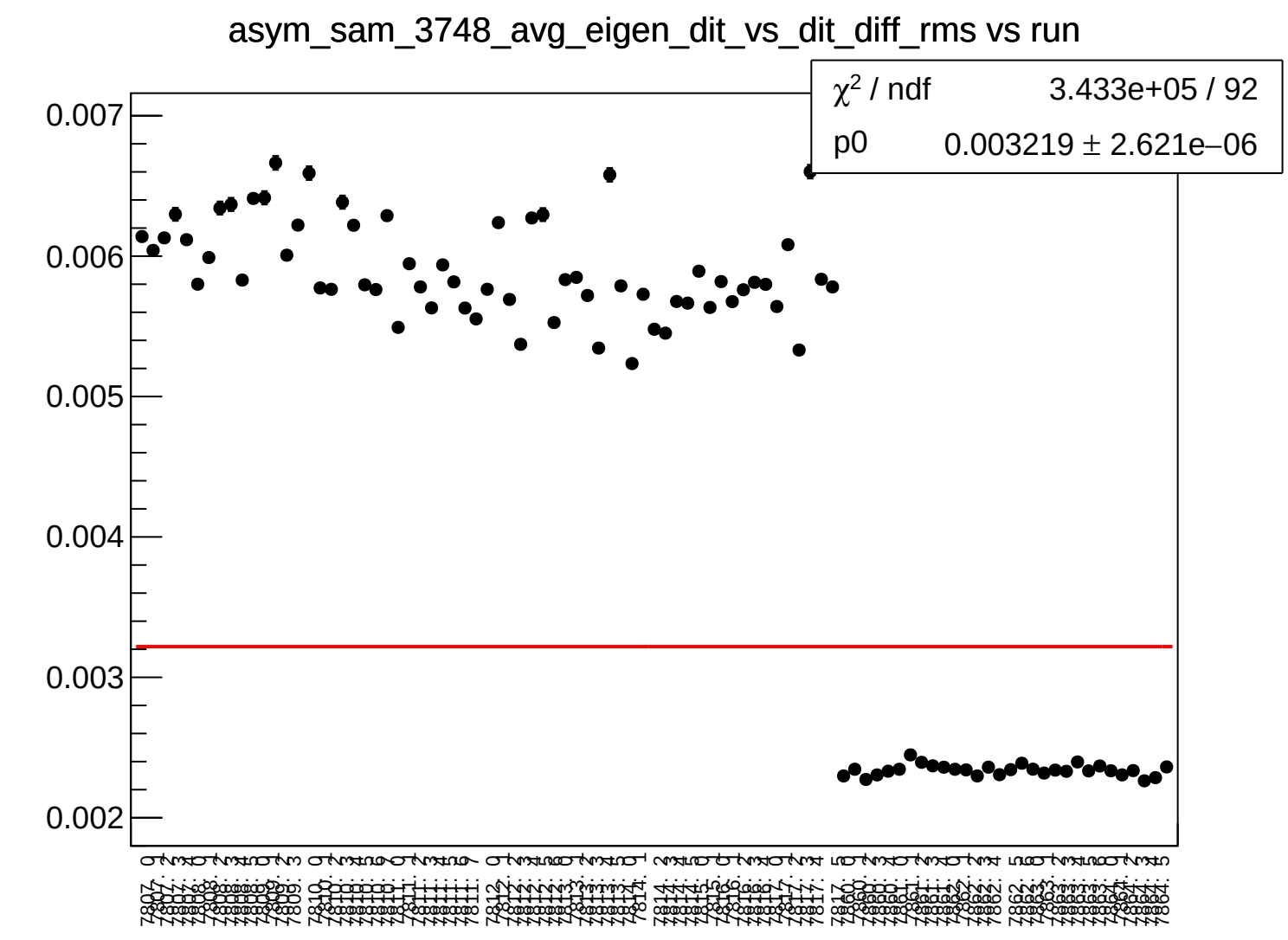

asym_sam_3748_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.58 / 92
p0 −0.02427 ± 0.07459
pull
Entries 93
Mean 272.4
Std Dev 0

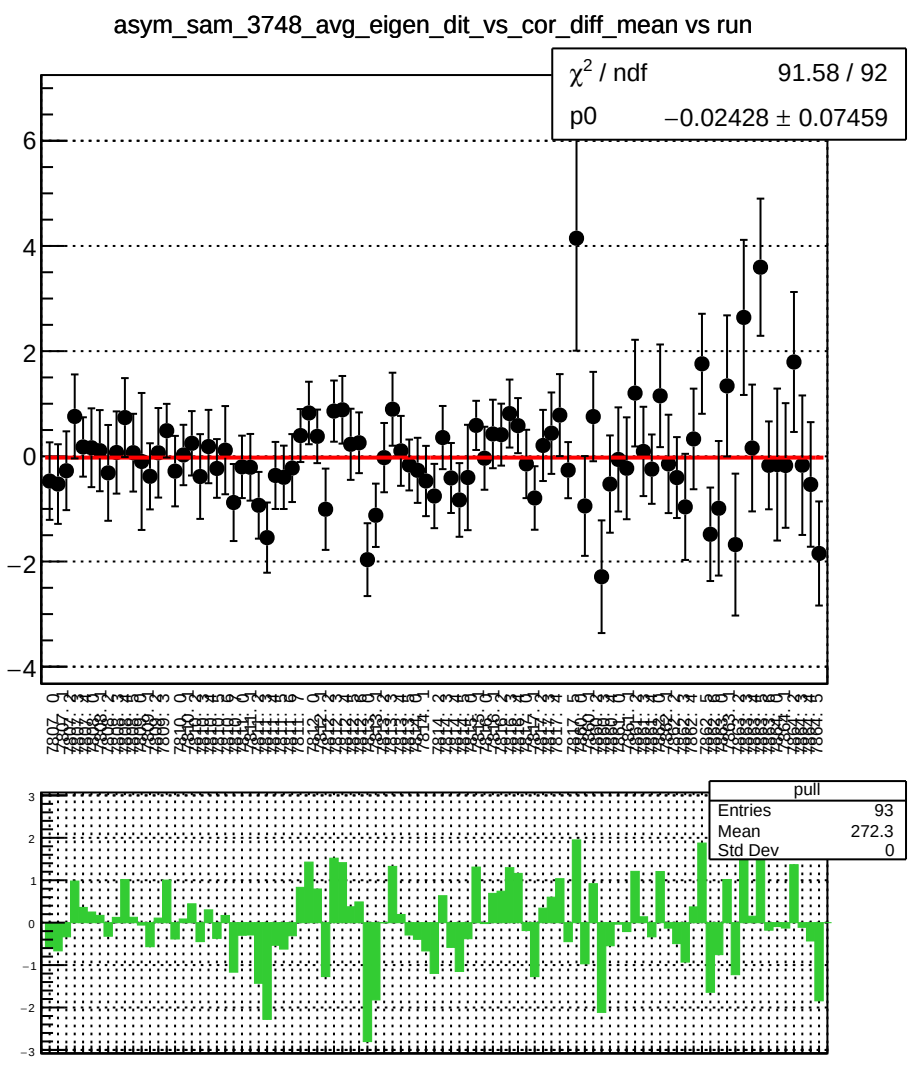

pull1D
Entries 93
Mean 0.008513
Std Dev 0.9923

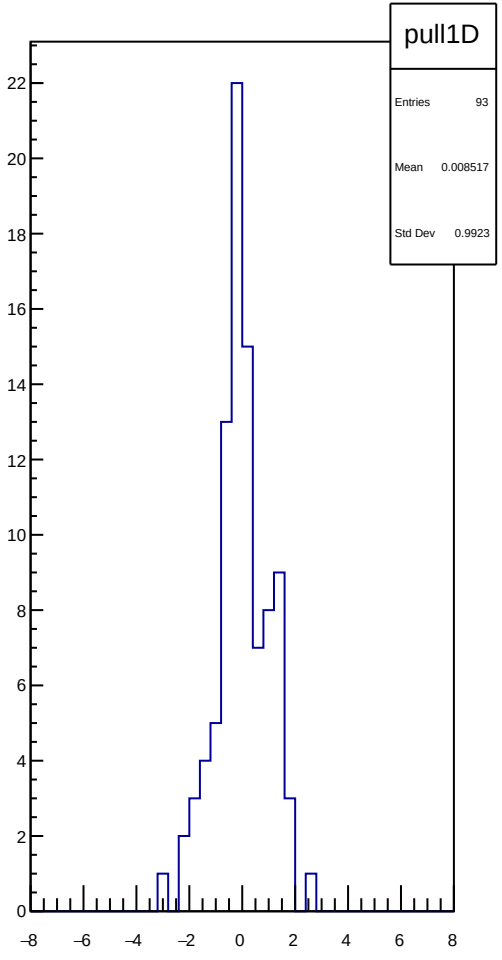

asym_sam_3748_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.094e+05 / 92
p0 69.61 ± 0.05274
220
200
180
160
140
120
100
80
60
40

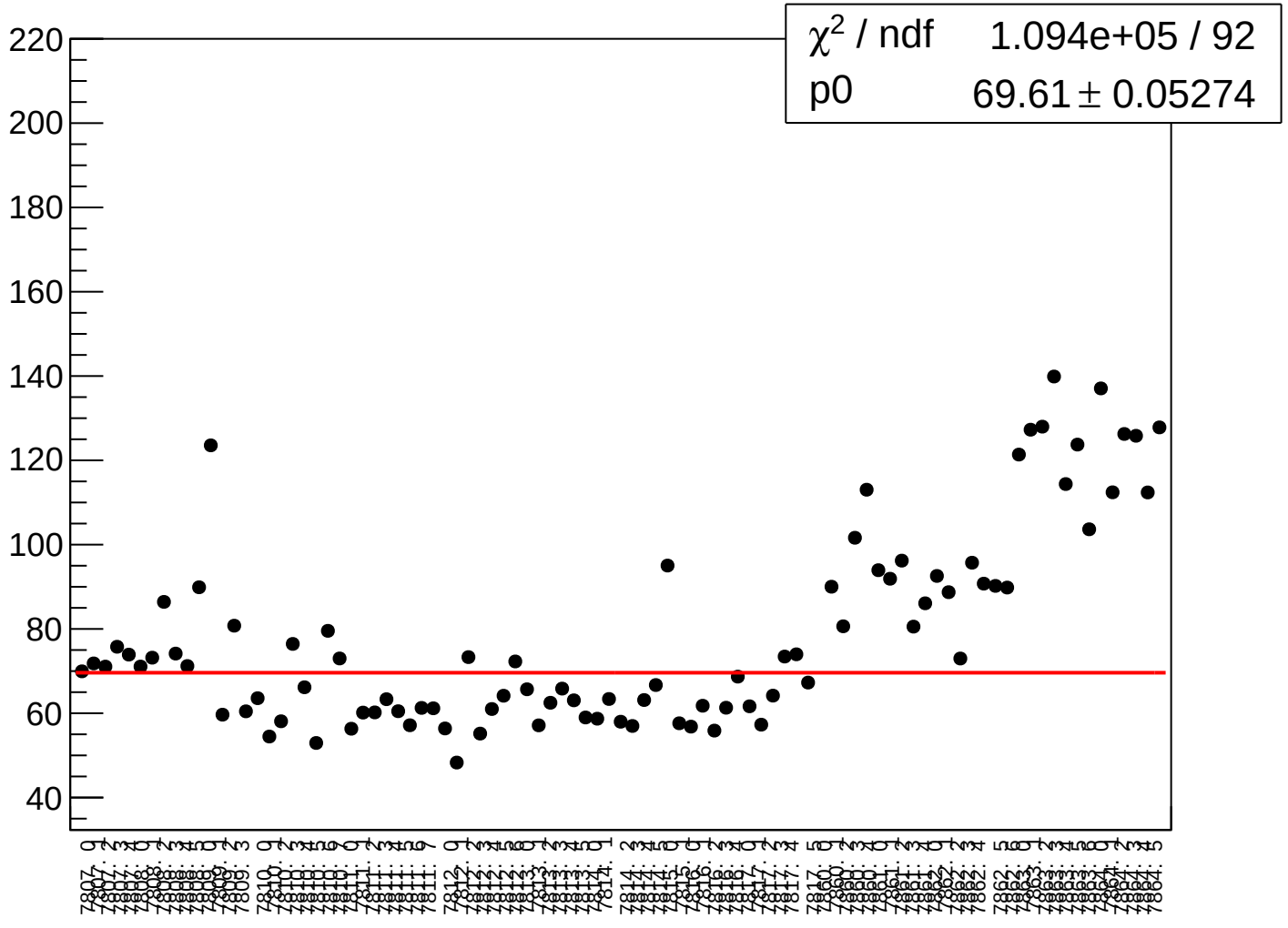

asym_sam_3748_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 77.61 / 92
p0 −8.428e−07 ± 3.707e−06
pull
Entries 93
Mean 83.82
Std Dev 0

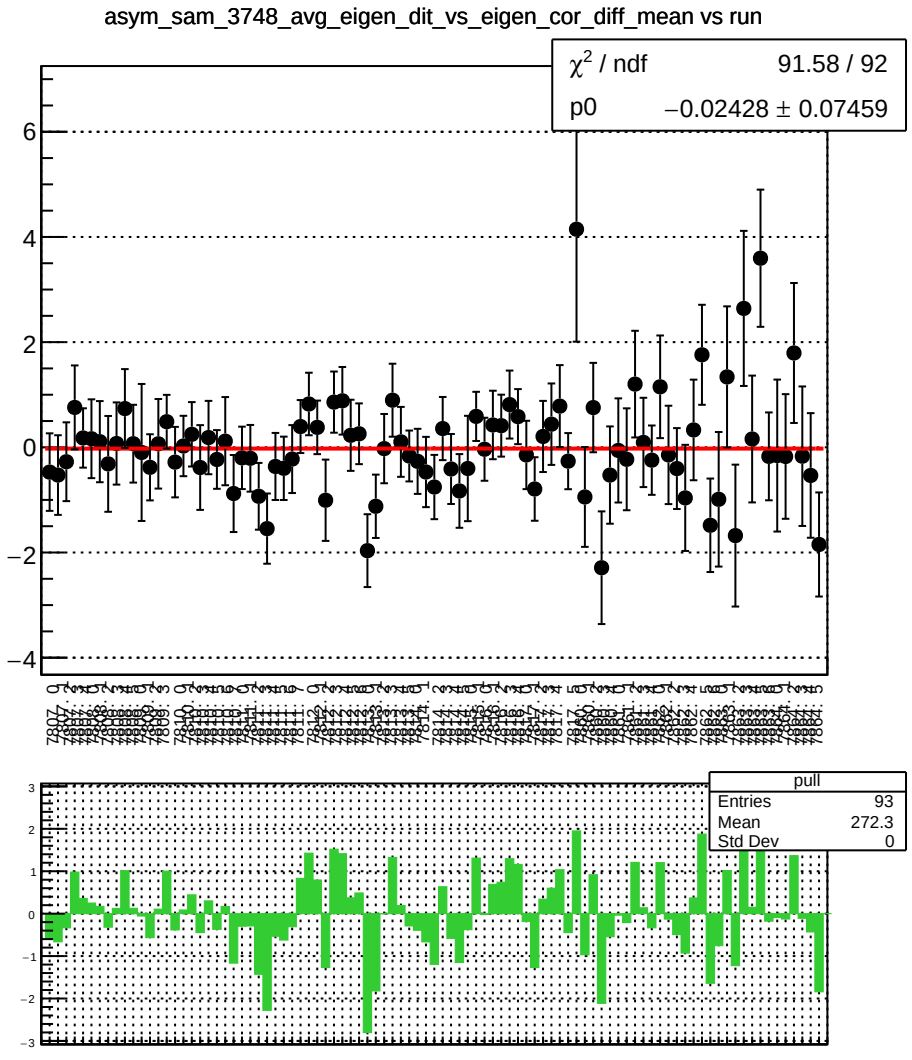

pull1D
Entries 93
Mean −0.009786
Std Dev 0.9135

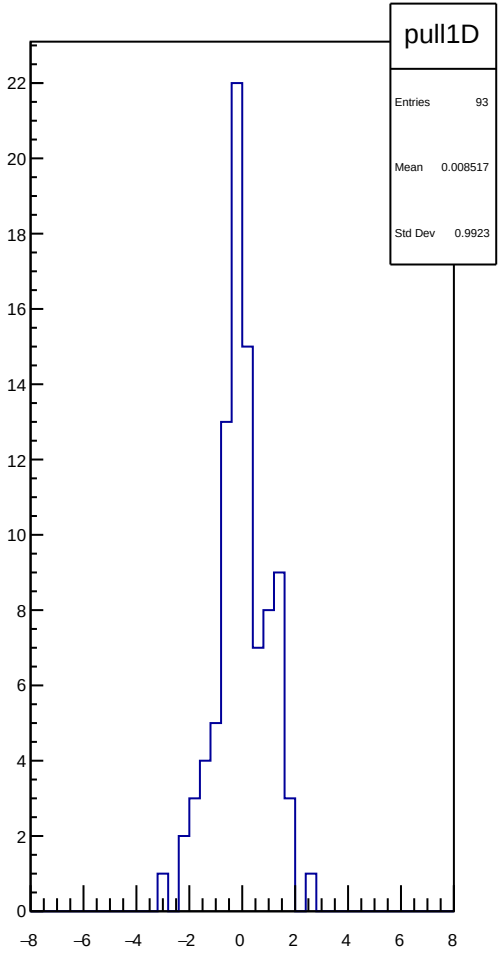

asym_sam_3748_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.433e+05 / 92
p0 0.003219 ± 2.621e−06
0.007
0.006
0.005
0.004
0.003
0.002

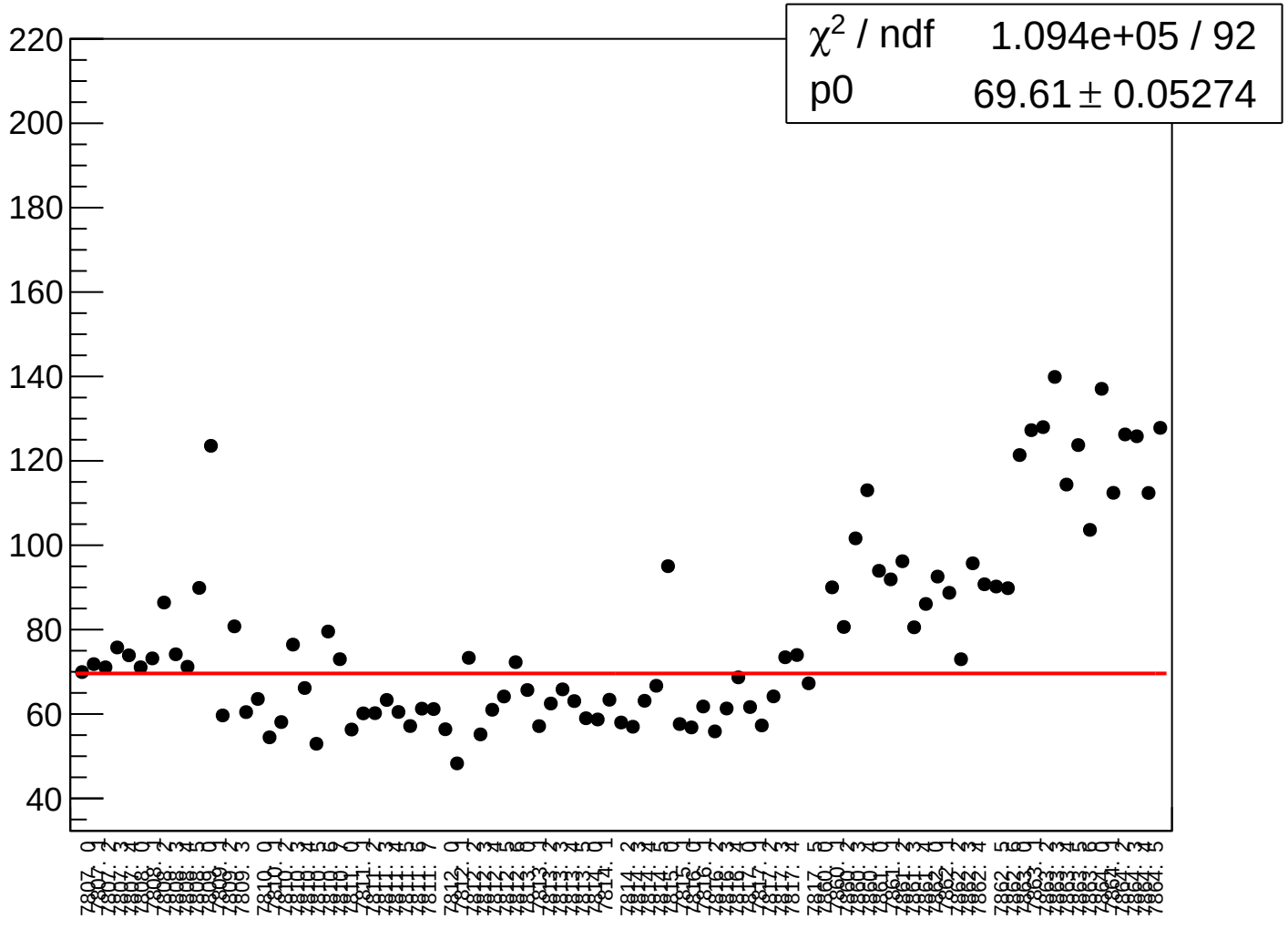

asym_sam_3748_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.58 / 92
p0 −0.02428 ± 0.07459
pull
Entries 93
Mean 272.3
Std Dev 0

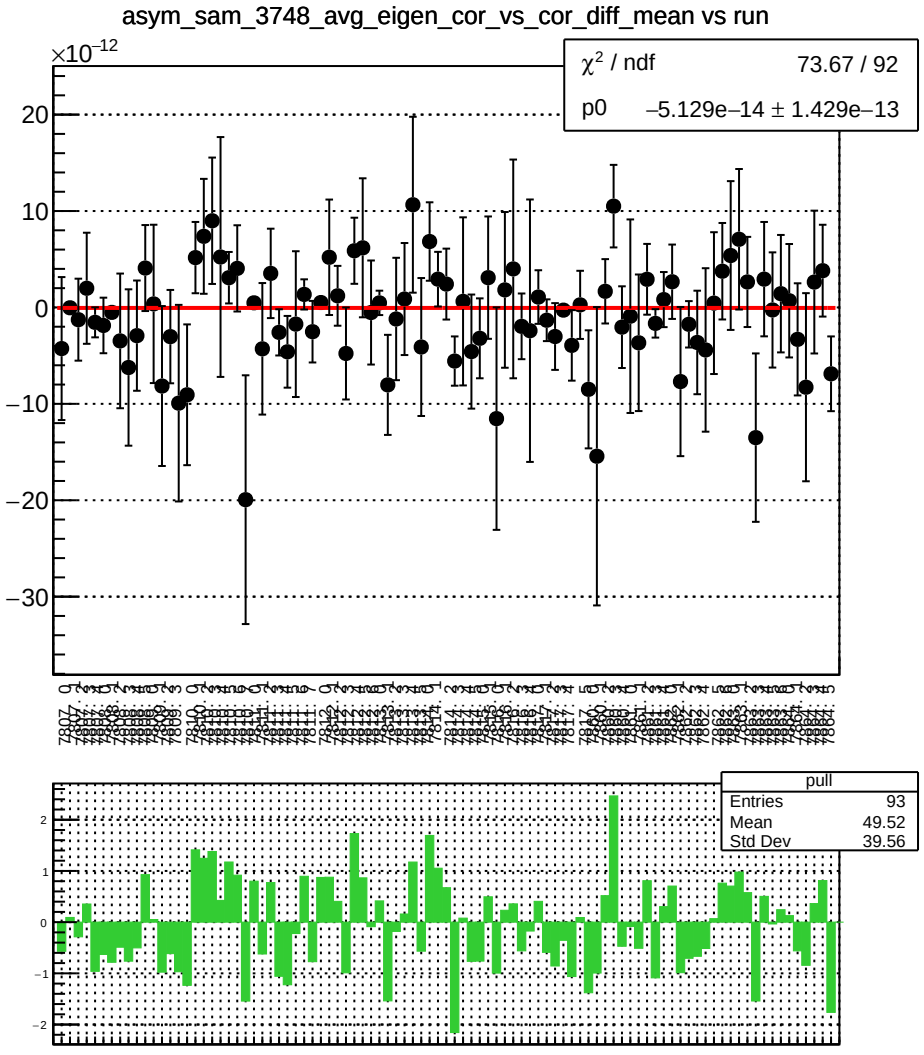

pull1D
Entries 93
Mean 0.008517
Std Dev 0.9923

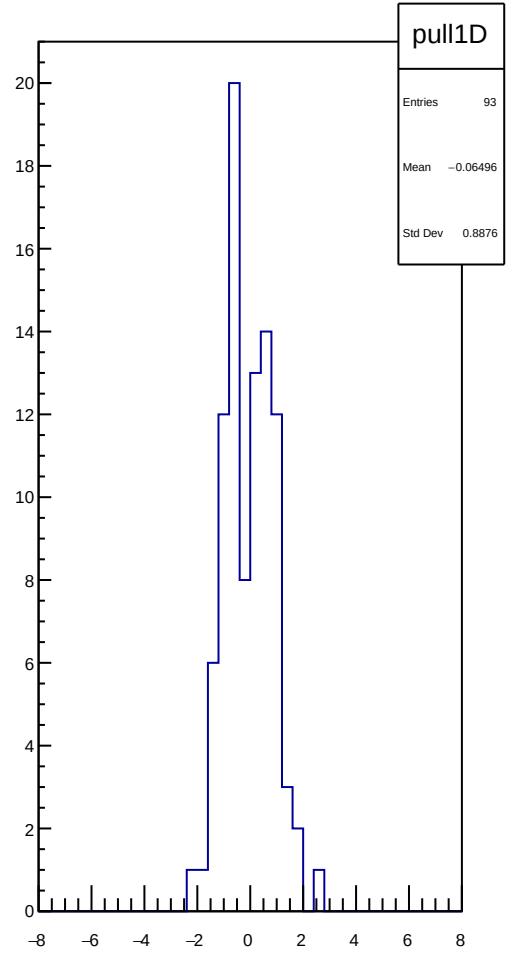

asym_sam_3748_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.094e+05 / 92
p0 69.61 ± 0.05274
220
200
180
160
140
120
100
80
60
40

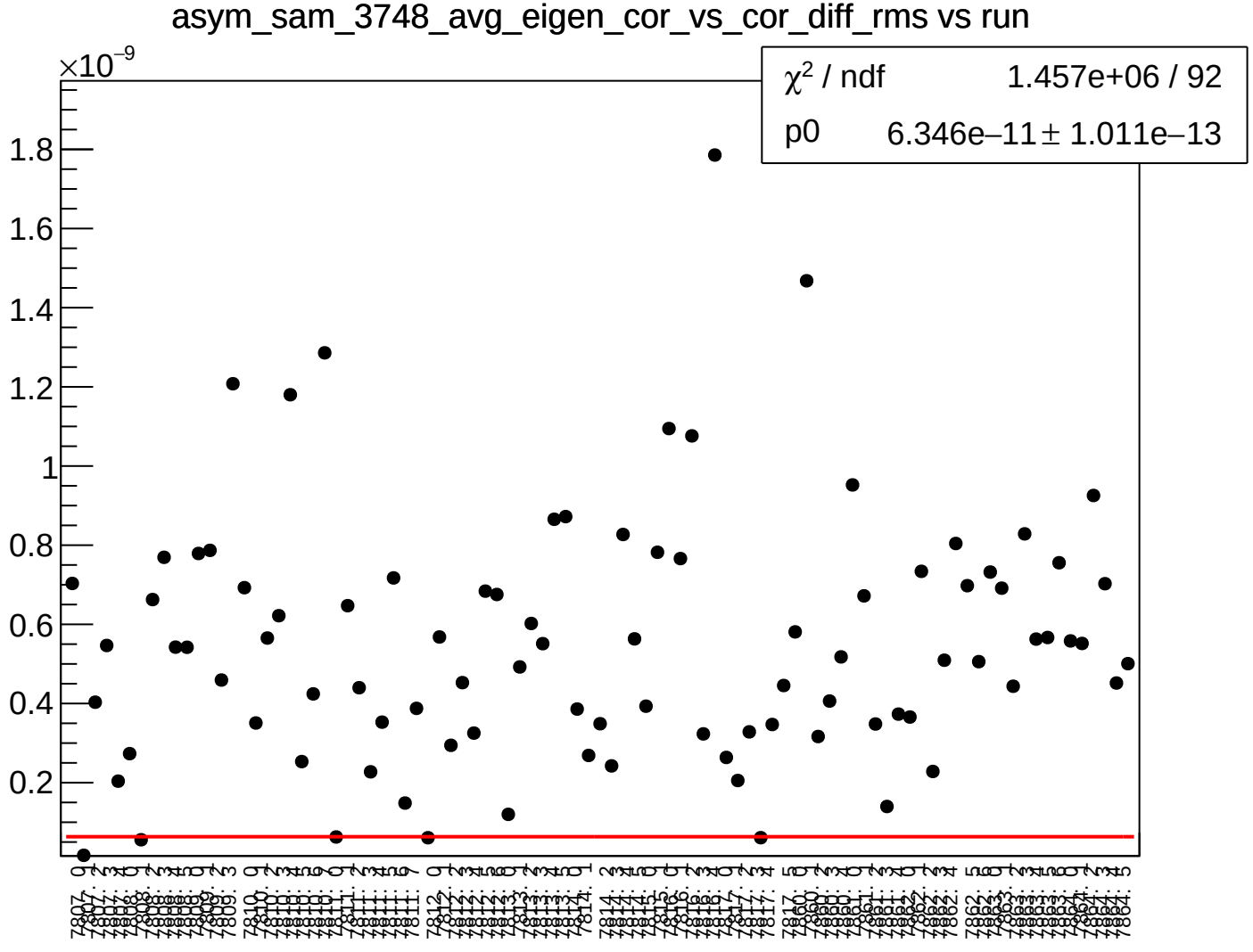

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.58 / 92
p0 −0.02428 ± 0.07459
pull
Entries 93
Mean 272.3
Std Dev 0

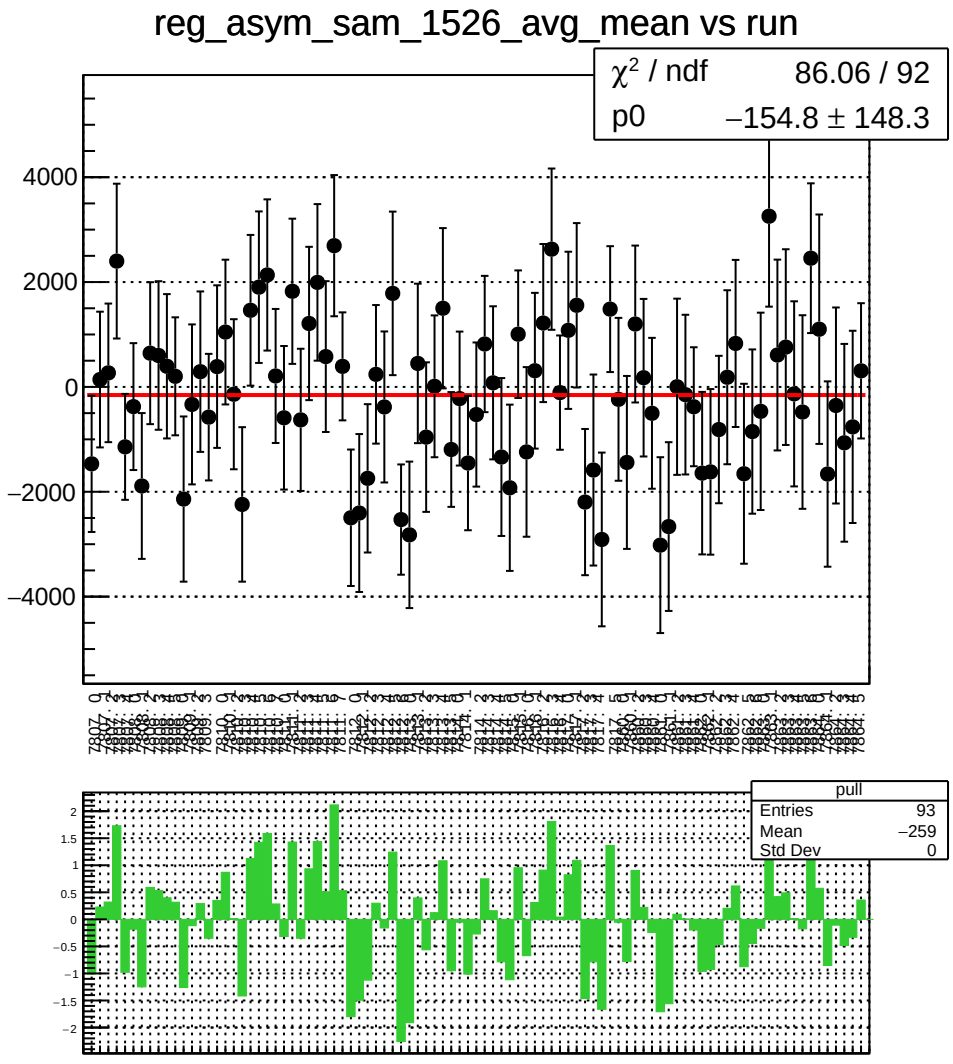

pull1D
Entries 93
Mean 0.008517
Std Dev 0.9923

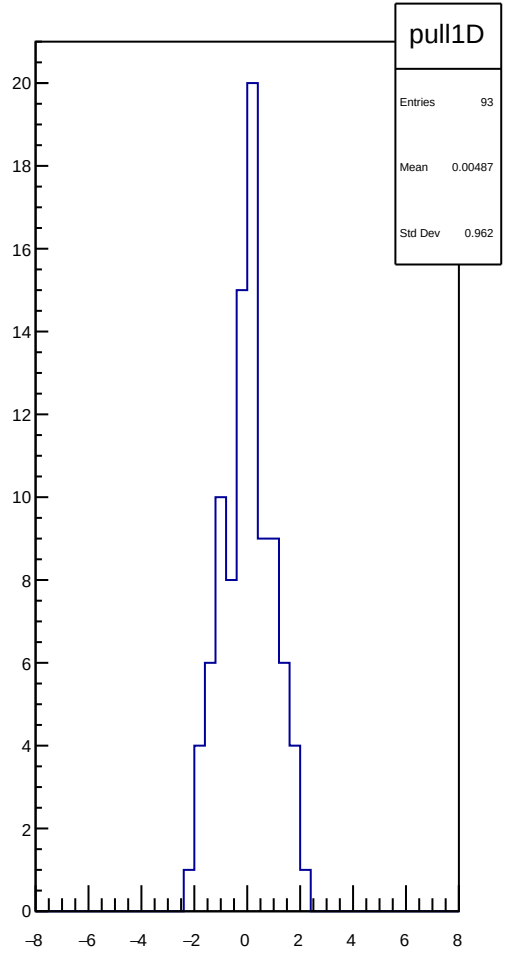

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.094e+05 / 92
p0 69.61 ± 0.05274
220
200
180
160
140
120
100
80
60
40

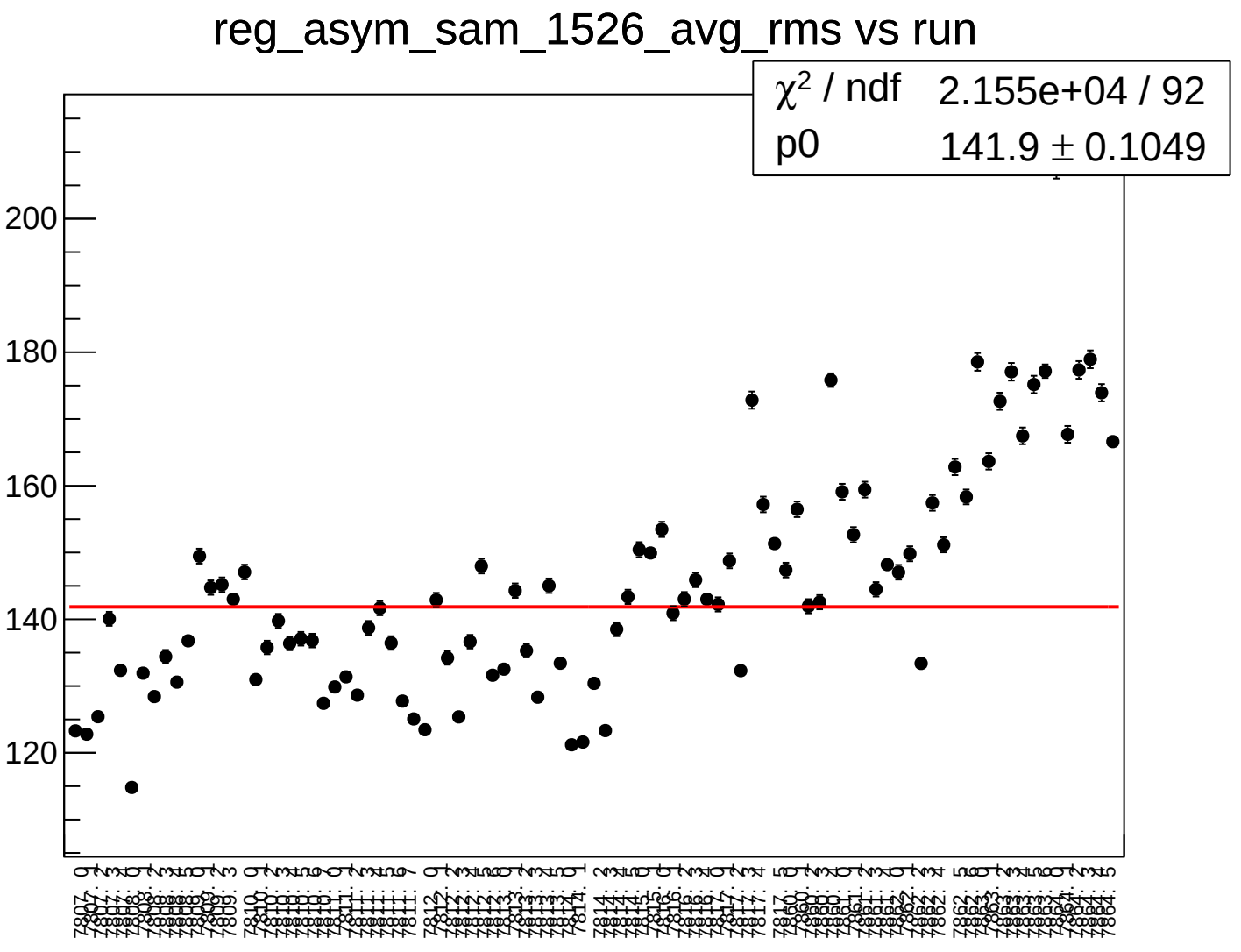

asym_sam_3748_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 73.67 / 92
p0 −5.129e−14 ± 1.429e−13
20
10
0
−10
−20
−30
pull
Entries 93
Mean 49.52
Std Dev 39.56
2
1
0
−1
−2

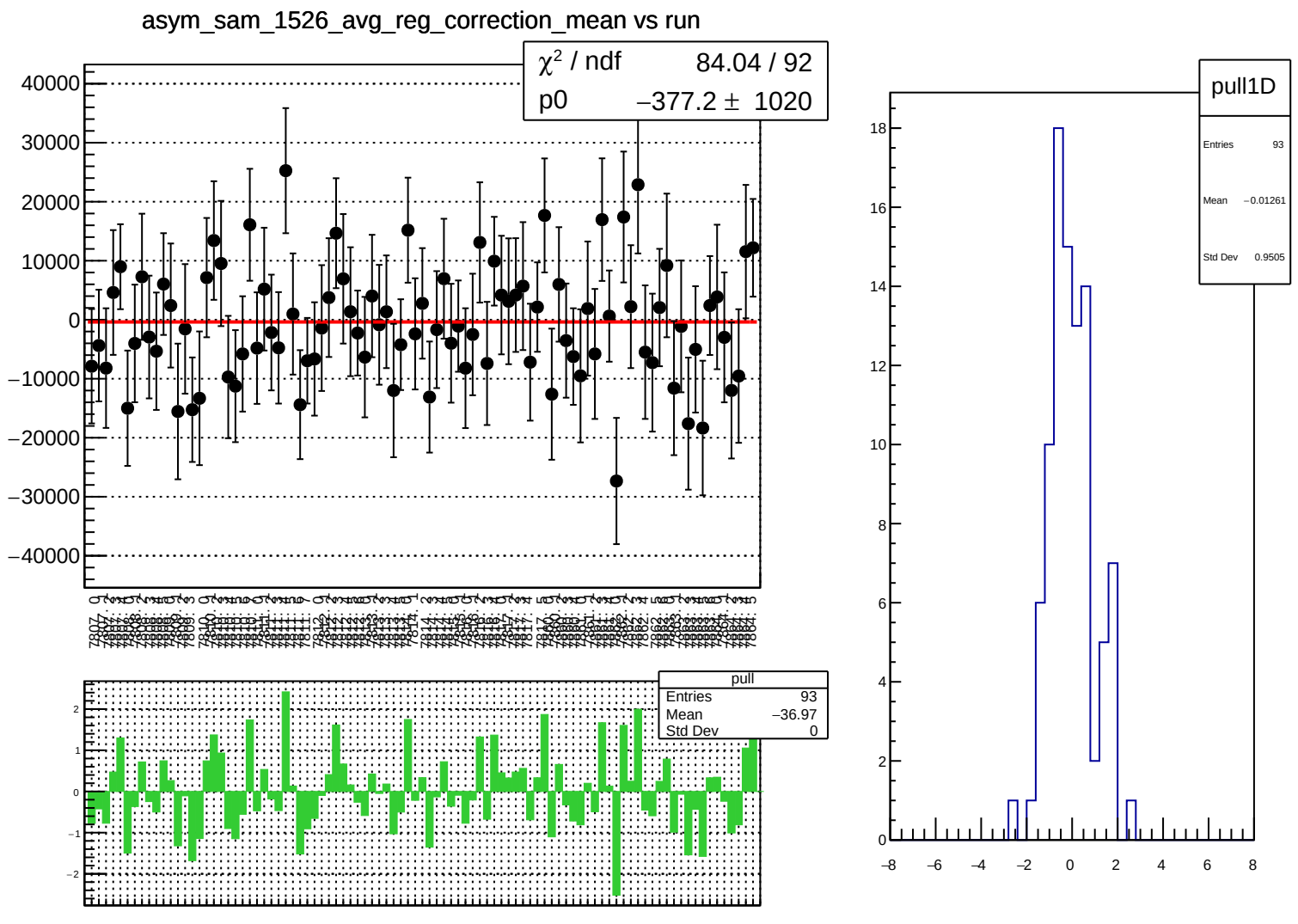

pull1D
Entries 93
Mean −0.06496
Std Dev 0.8876
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

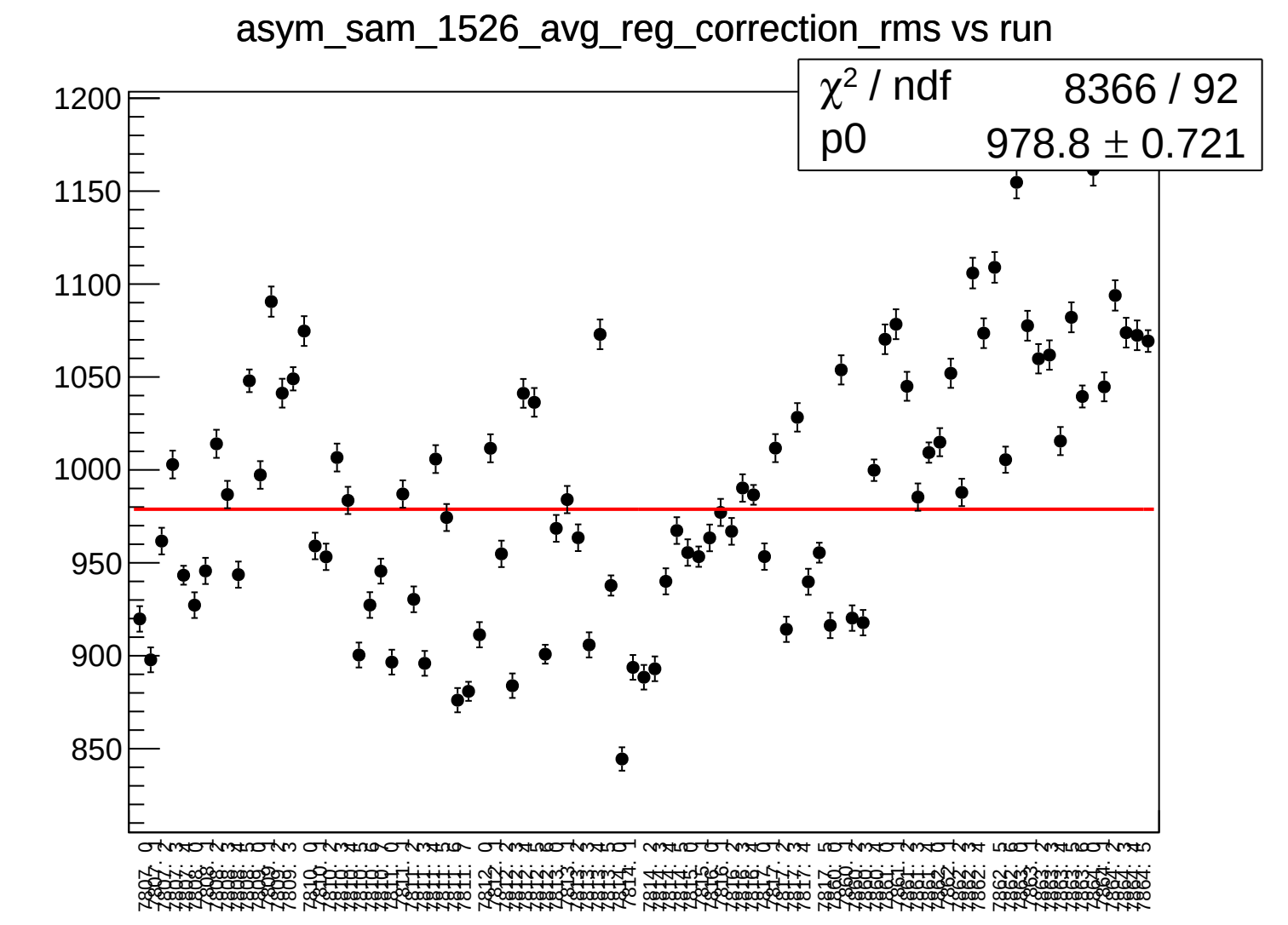

asym_sam_3748_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.457e+06 / 92
p0 6.346e−11 ± 1.011e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

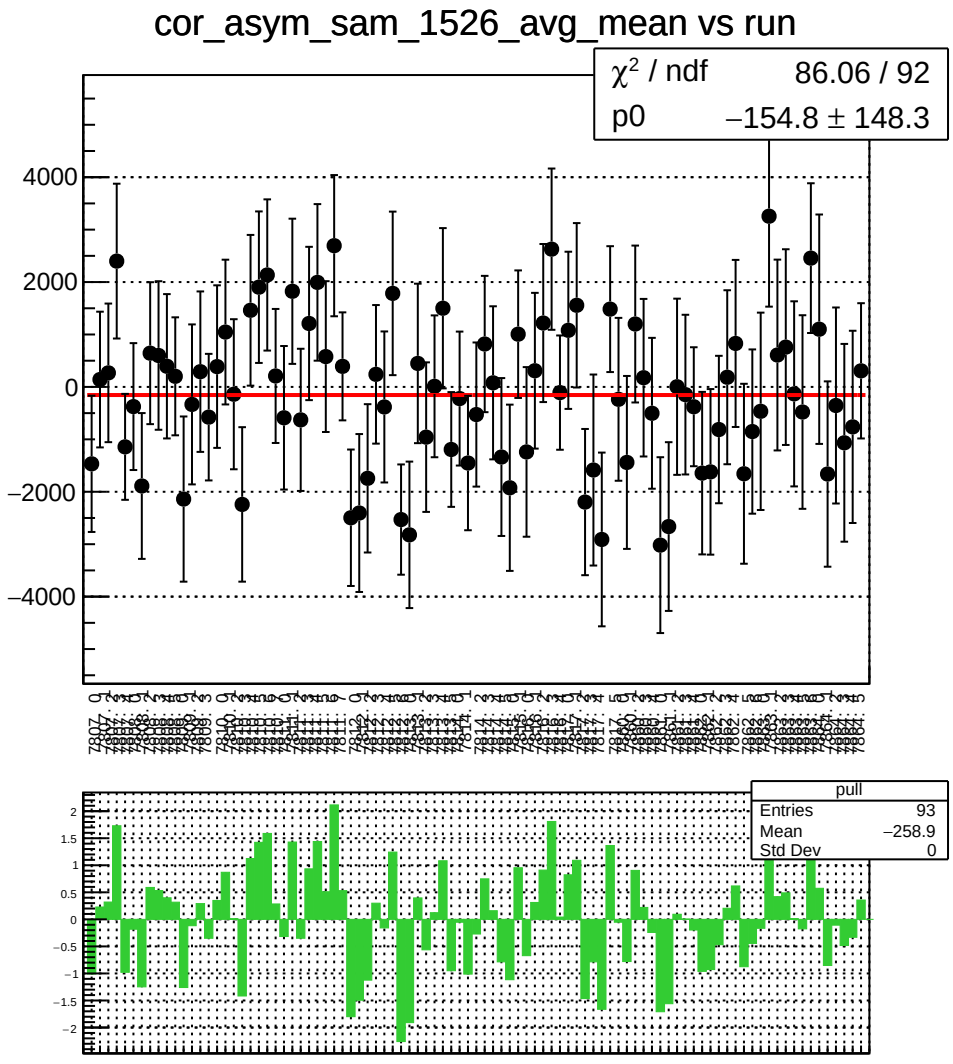

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 86.06 / 92
p0 −154.8 ± 148.3
4000
2000
0
−2000
−4000
pull
Entries 93
Mean −259
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

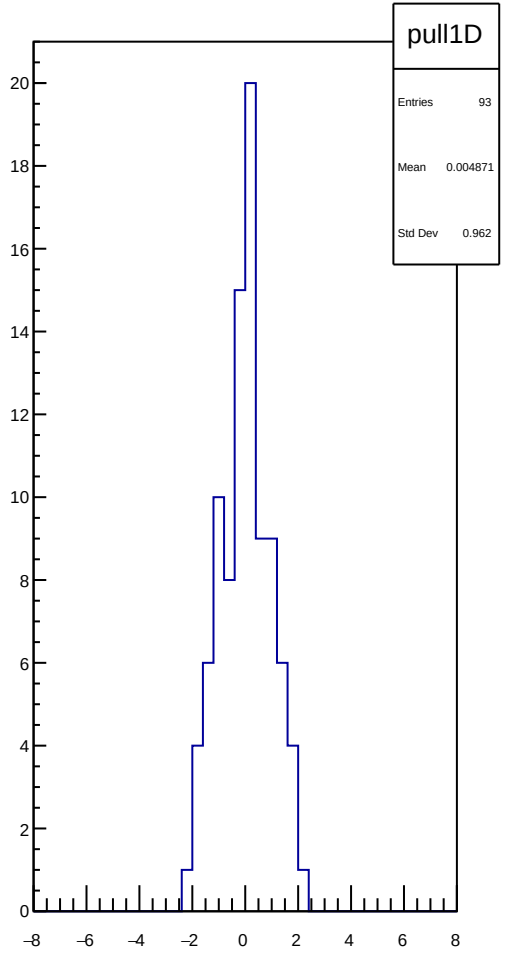

pull1D
Entries 93
Mean 0.00487
Std Dev 0.962
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

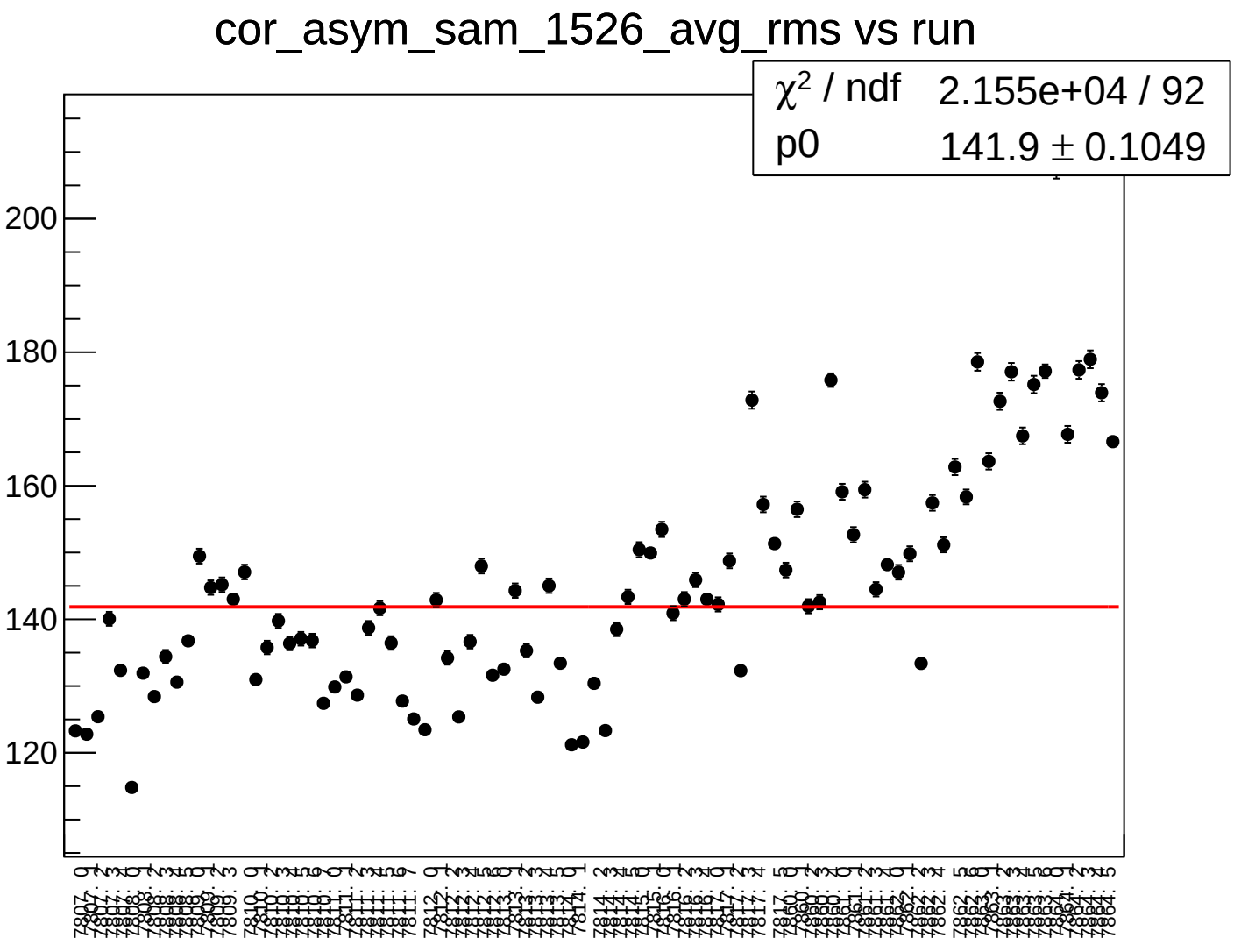

reg_asym_sam_1526_avg_rms vs run
χ^2 / ndf 2.155e+04 / 92
p0 141.9 ± 0.1049
200
180
160
140
120

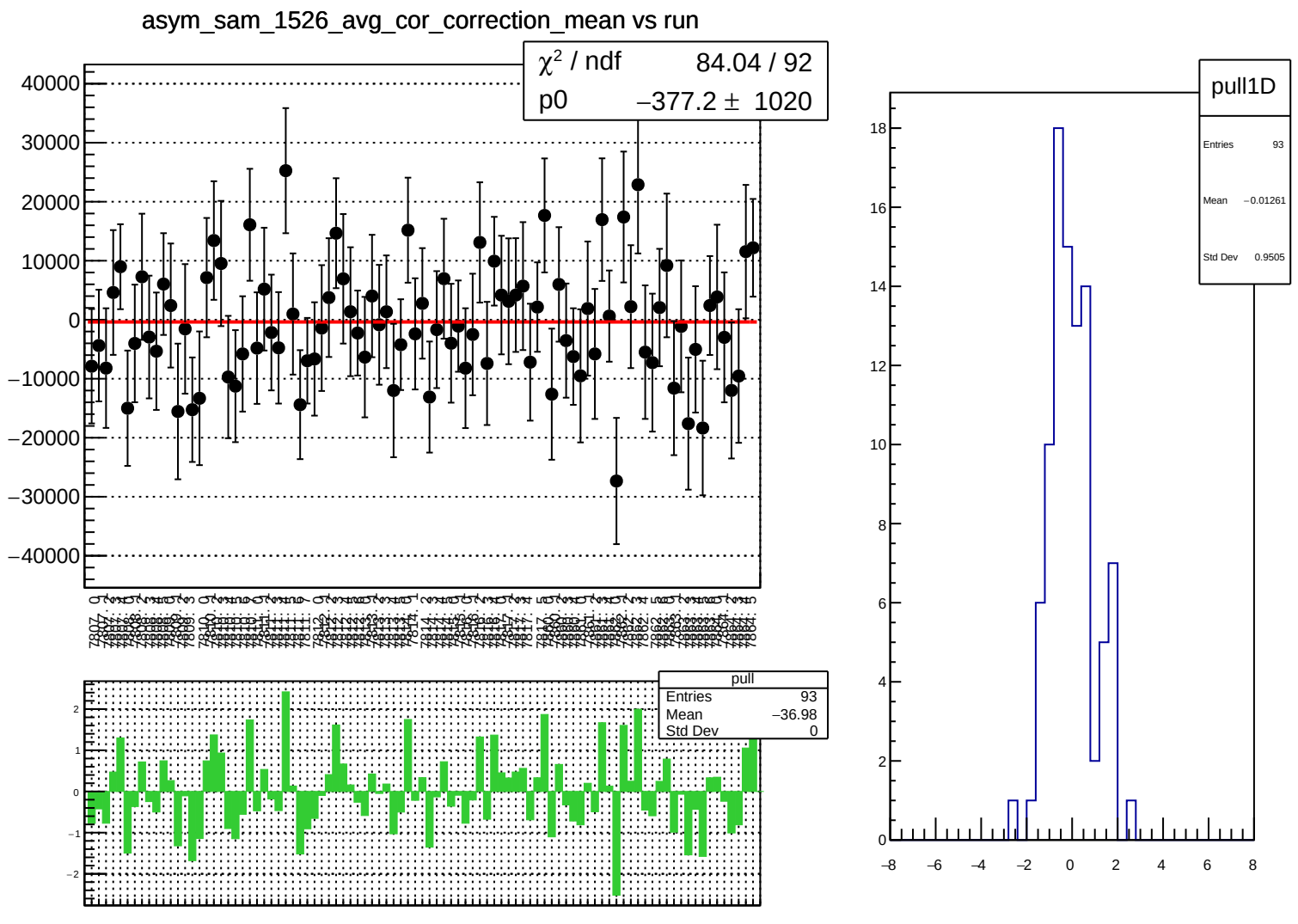

asym_sam_1526_avg_reg_correction_mean vs run
χ² / ndf 84.04 / 92
p0 −377.2 ± 1020
pull
Entries 93
Mean −36.97
Std Dev 0
pull1D
Entries 93
Mean −0.01261
Std Dev 0.9505

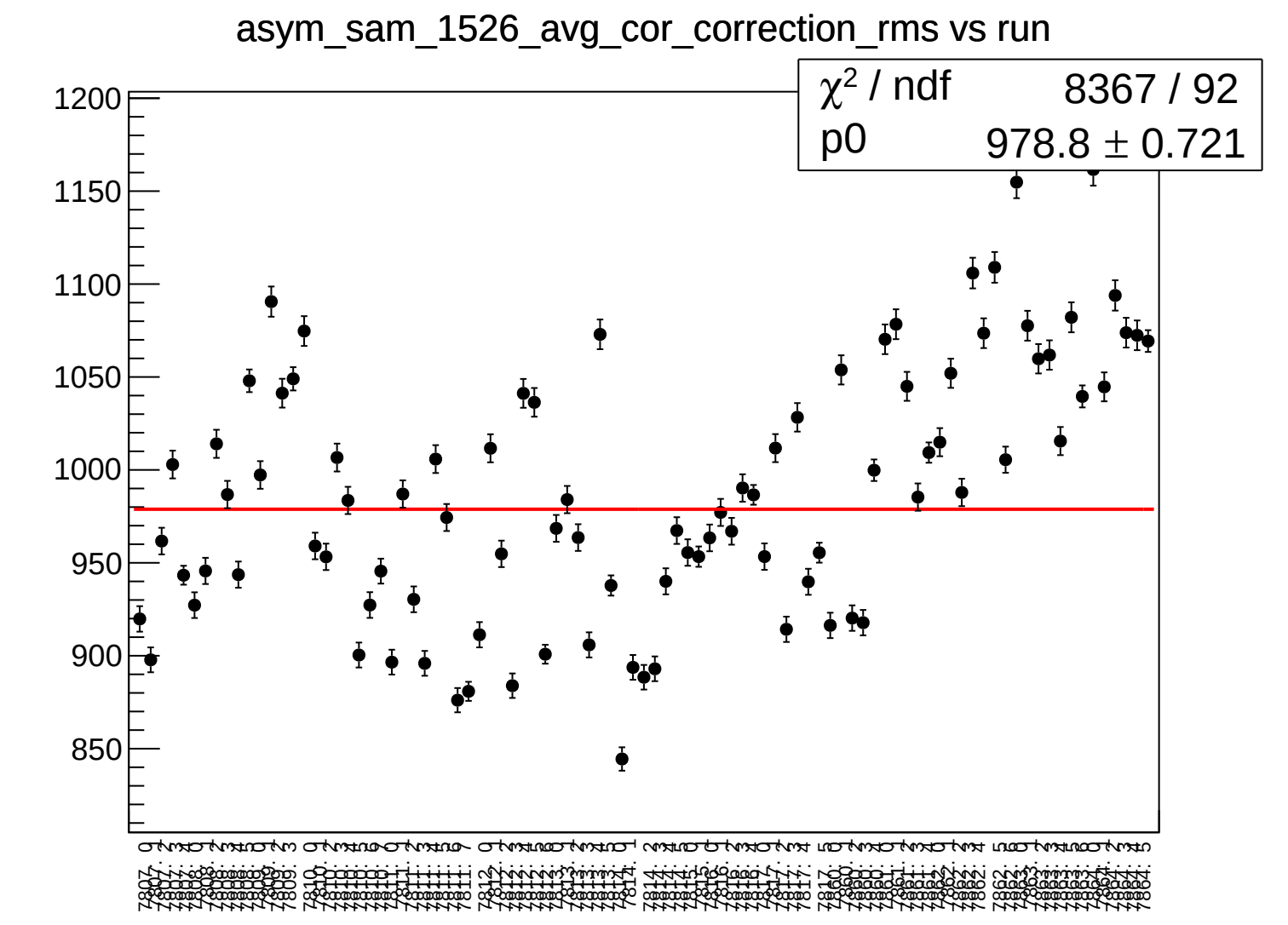

asym_sam_1526_avg_reg_correction_rms vs run
χ² / ndf 8366 / 92
p0 978.8 ± 0.721
1200
1150
1100
1050
1000
950
900
850

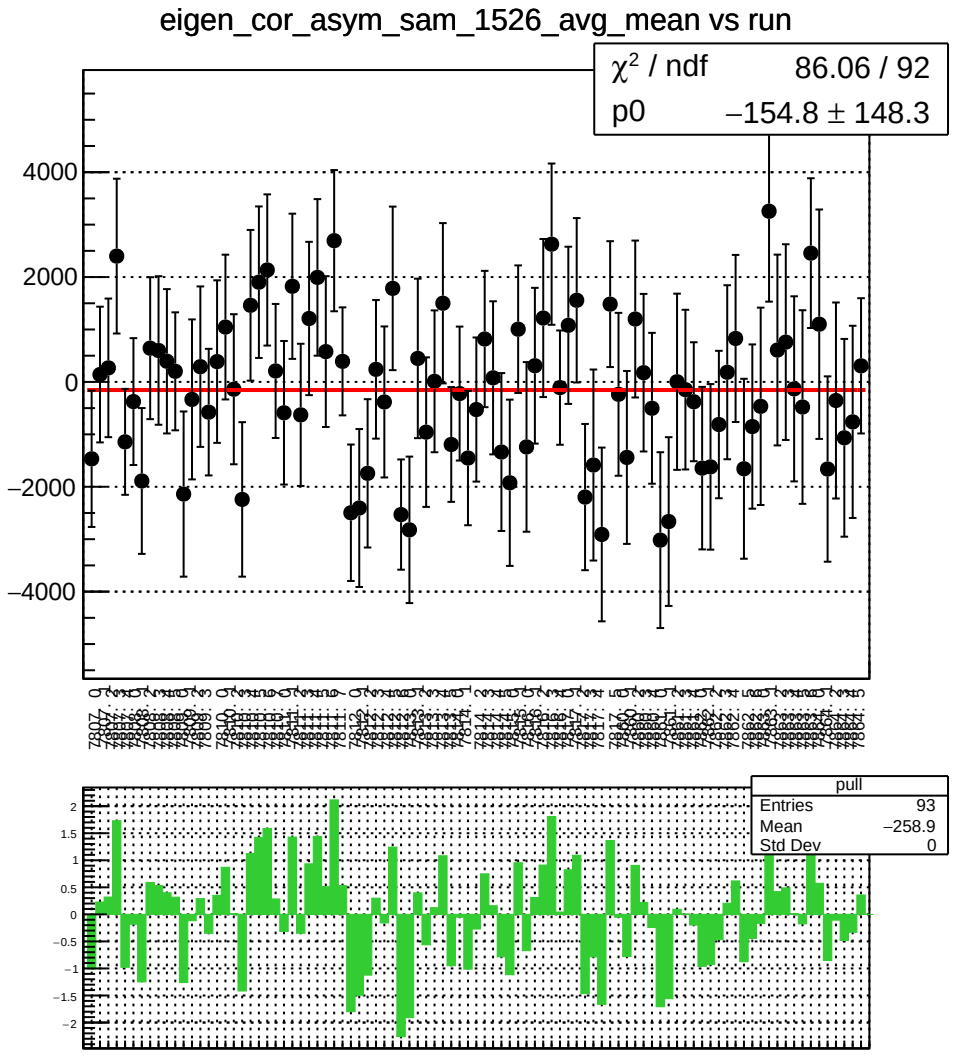

cor_asym_sam_1526_avg_mean vs run
χ² / ndf 86.06 / 92
p0 −154.8 ± 148.3
4000
2000
0
−2000
−4000
pull
Entries 93
Mean −258.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

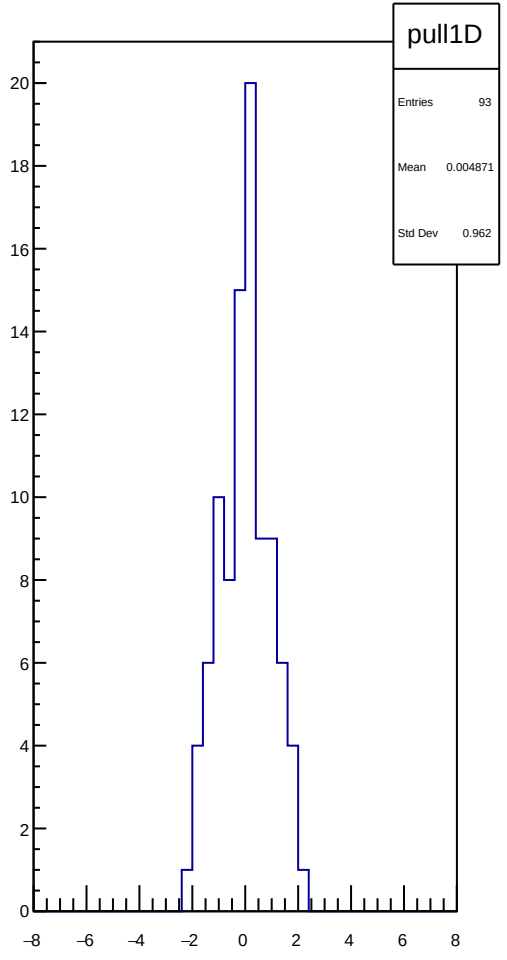

pull1D
Entries 93
Mean 0.004871
Std Dev 0.962
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

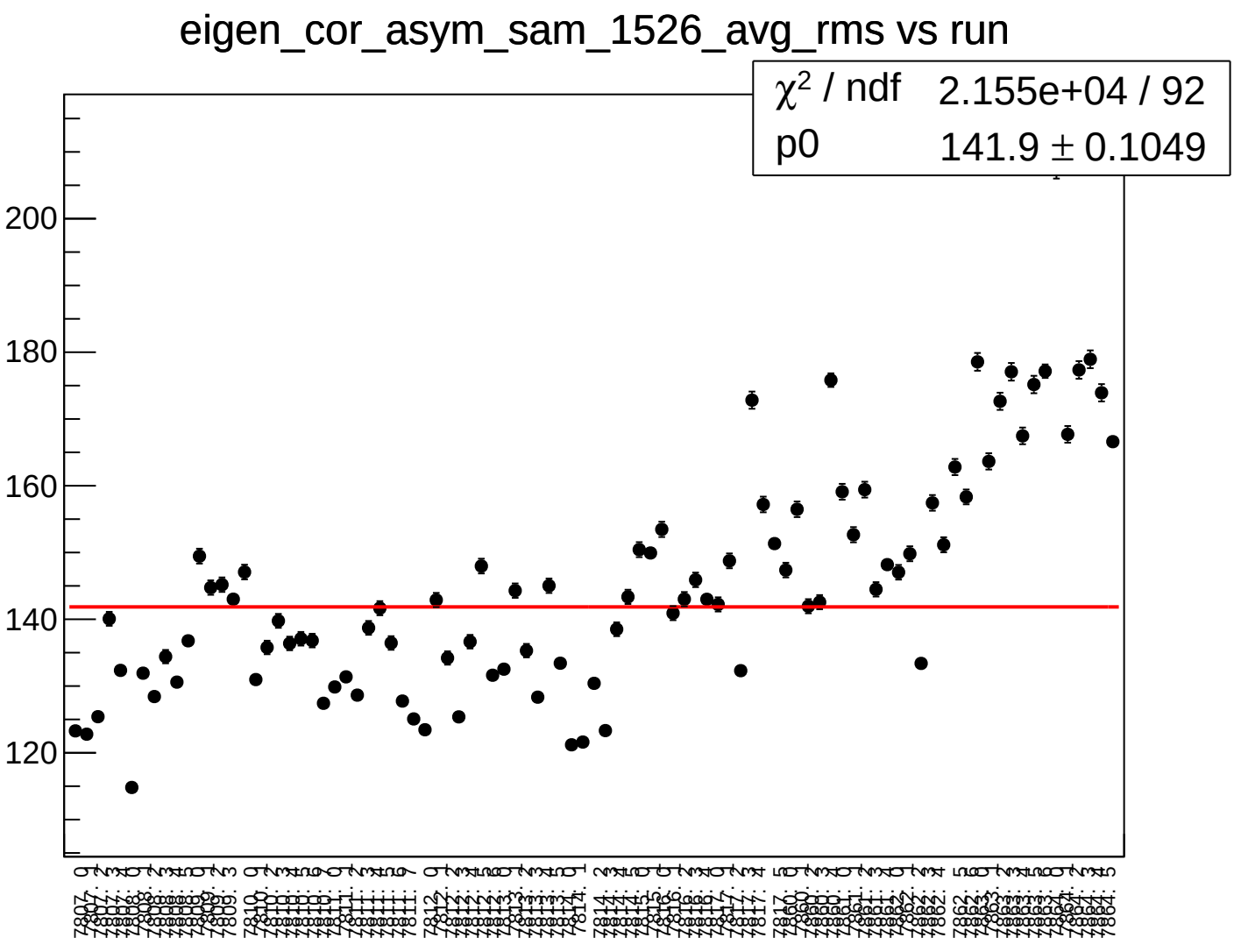

cor_asym_sam_1526_avg_rms vs run
χ^2 / ndf 2.155e+04 / 92
p0 141.9 ± 0.1049
200
180
160
140
120

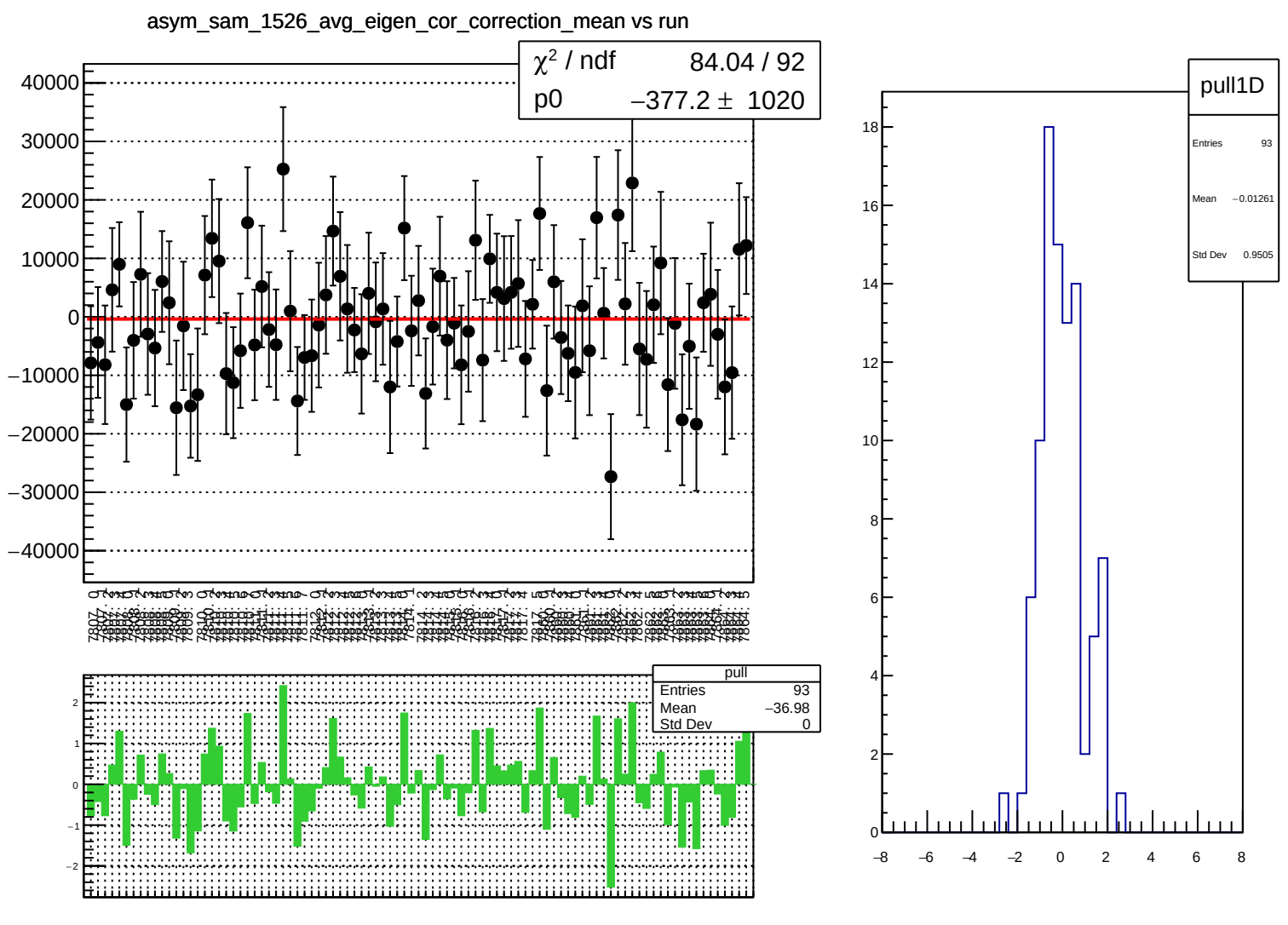

asym_sam_1526_avg_cor_correction_mean vs run
χ² / ndf 84.04 / 92
p0 −377.2 ± 1020
pull
Entries 93
Mean −36.98
Std Dev 0
pull1D
Entries 93
Mean −0.01261
Std Dev 0.9505

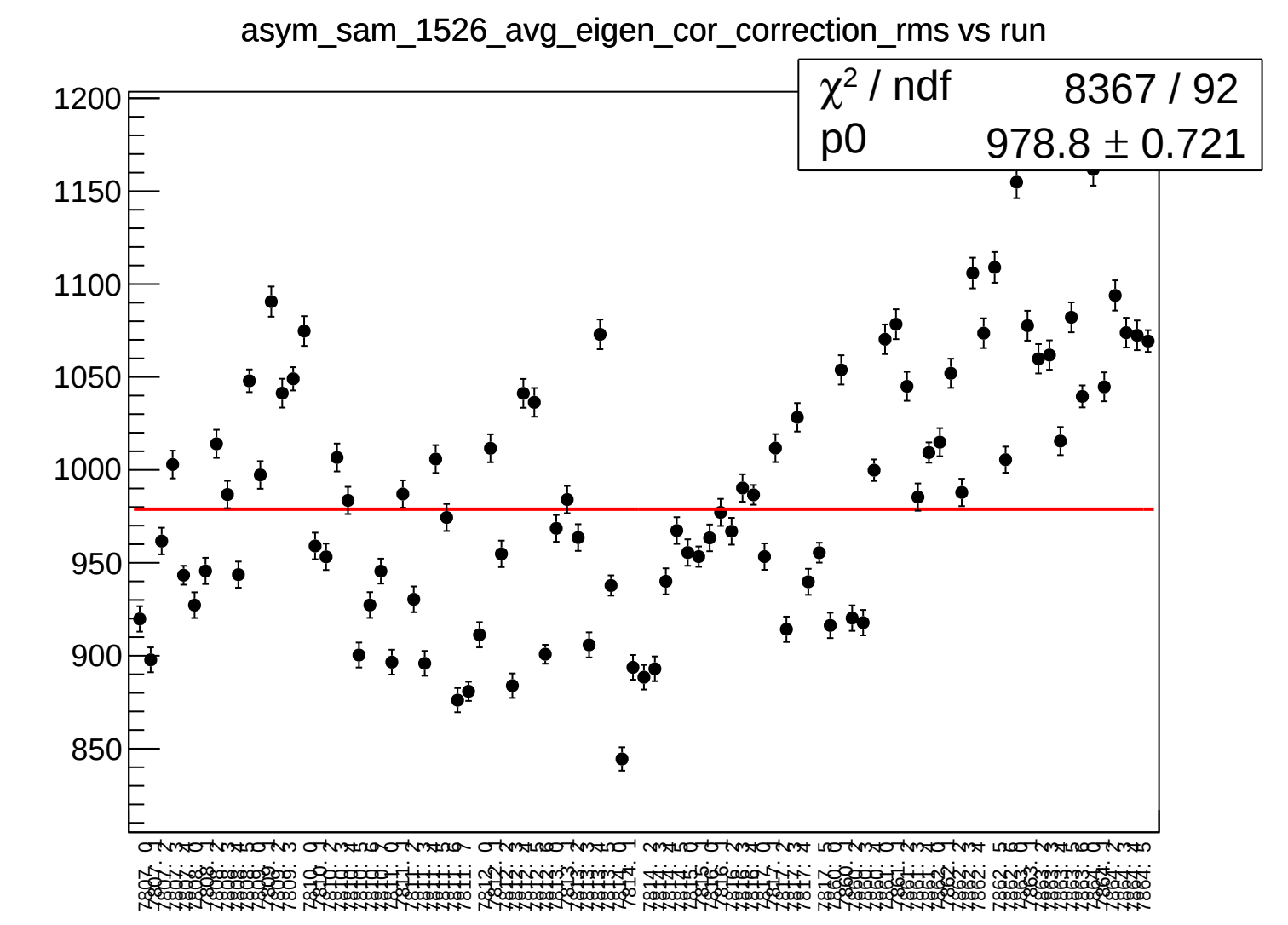

asym_sam_1526_avg_cor_correction_rms vs run
χ² / ndf 8367 / 92
p0 978.8 ± 0.721
1200
1150
1100
1050
1000
950
900
850

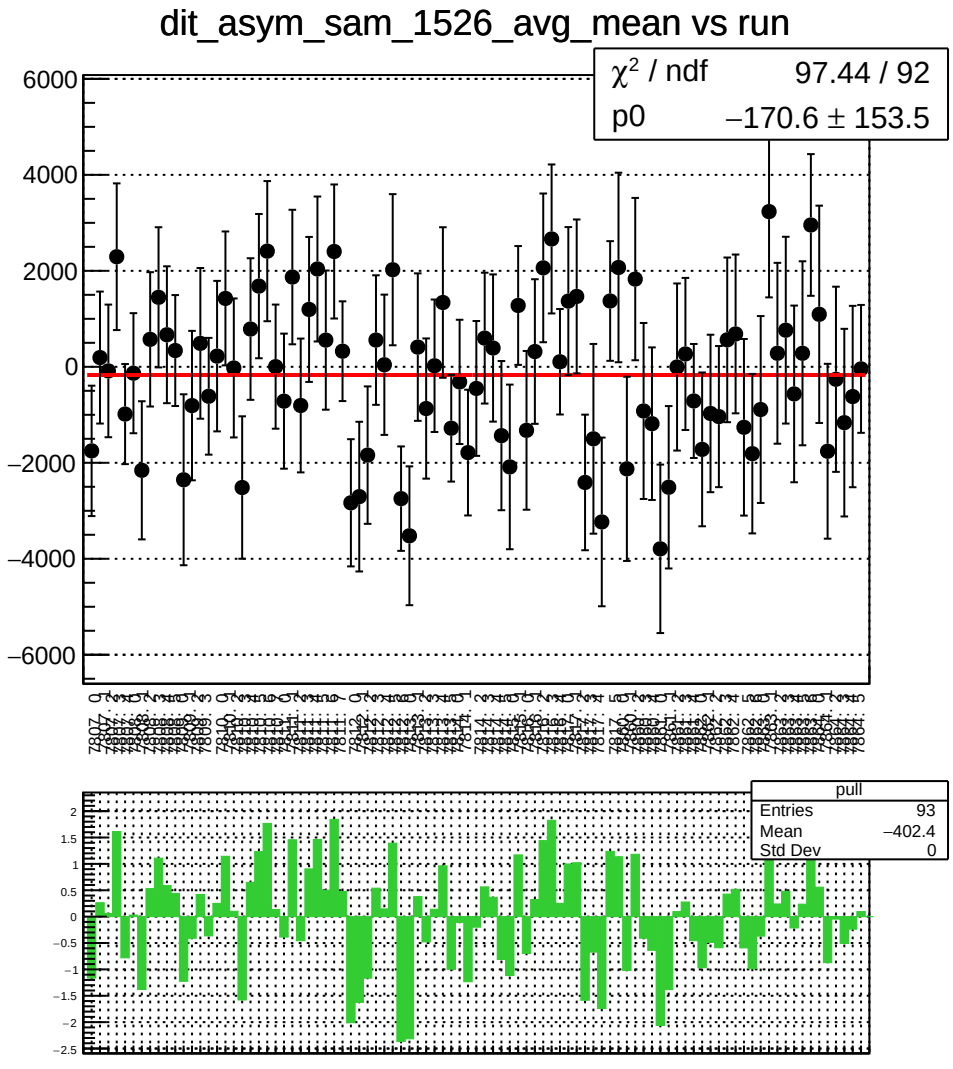

eigen_cor_asym_sam_1526_avg_mean vs run
χ² / ndf 86.06 / 92
p0 −154.8 ± 148.3
4000
2000
0
−2000
−4000
pull
Entries 93
Mean −258.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

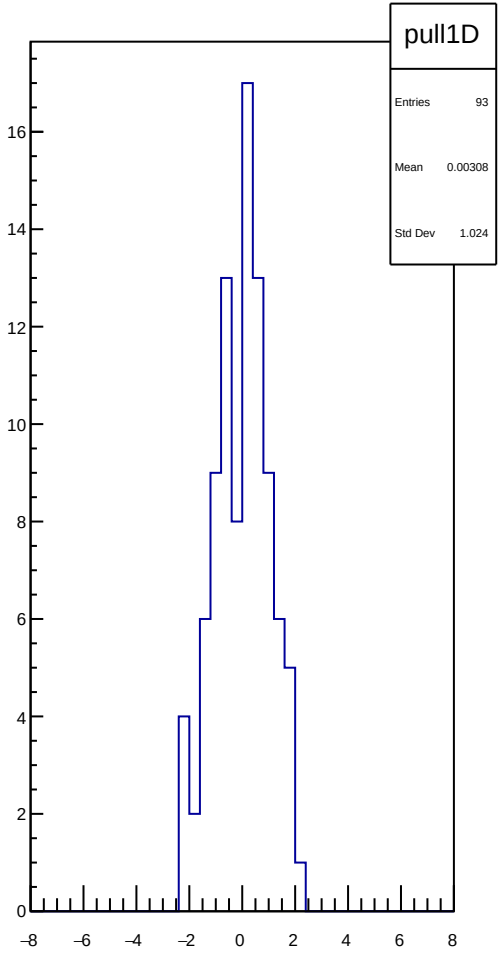

pull1D
Entries 93
Mean 0.004871
Std Dev 0.962
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

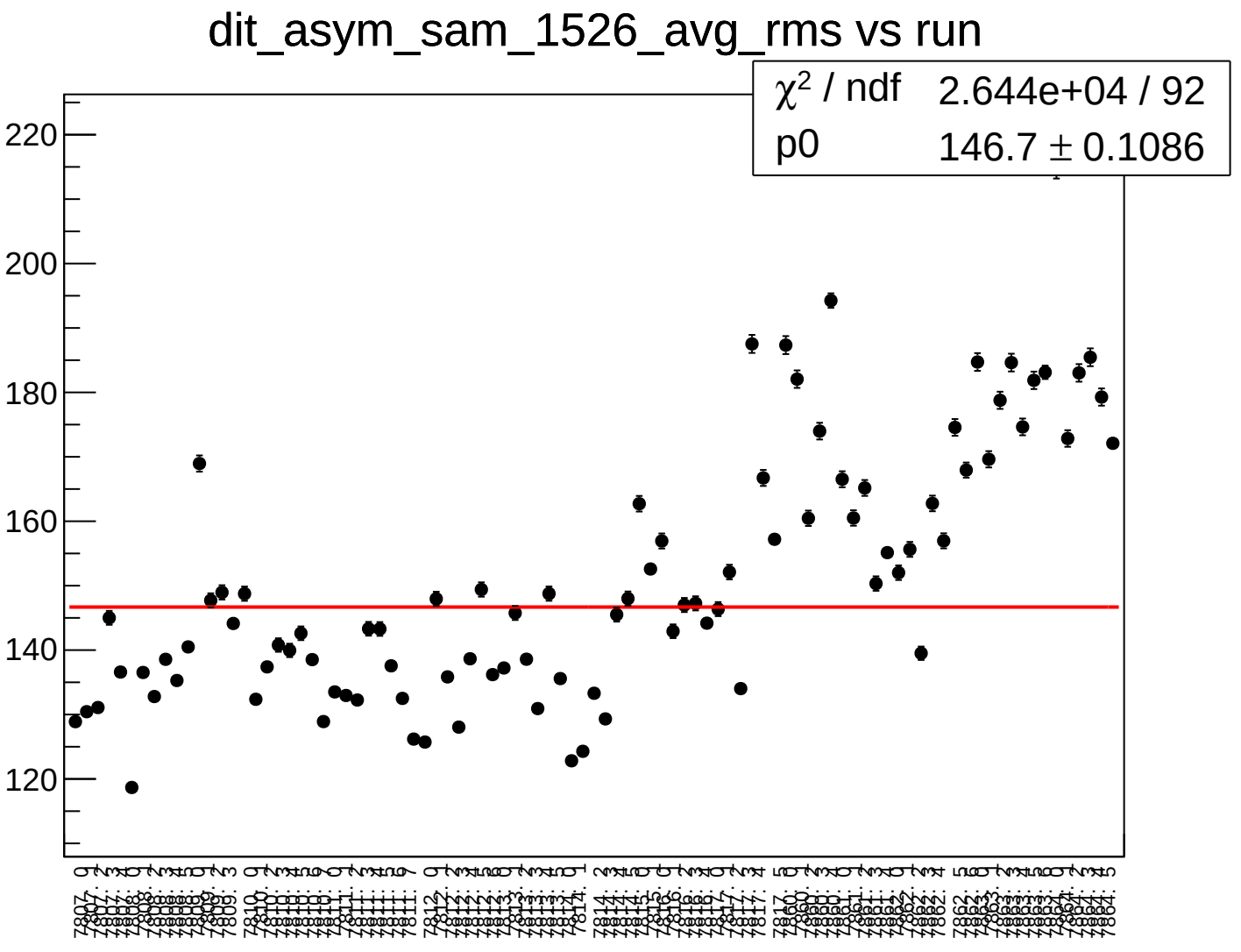

eigen_cor_asym_sam_1526_avg_rms vs run
χ² / ndf 2.155e+04 / 92
p0 141.9 ± 0.1049
200
180
160
140
120

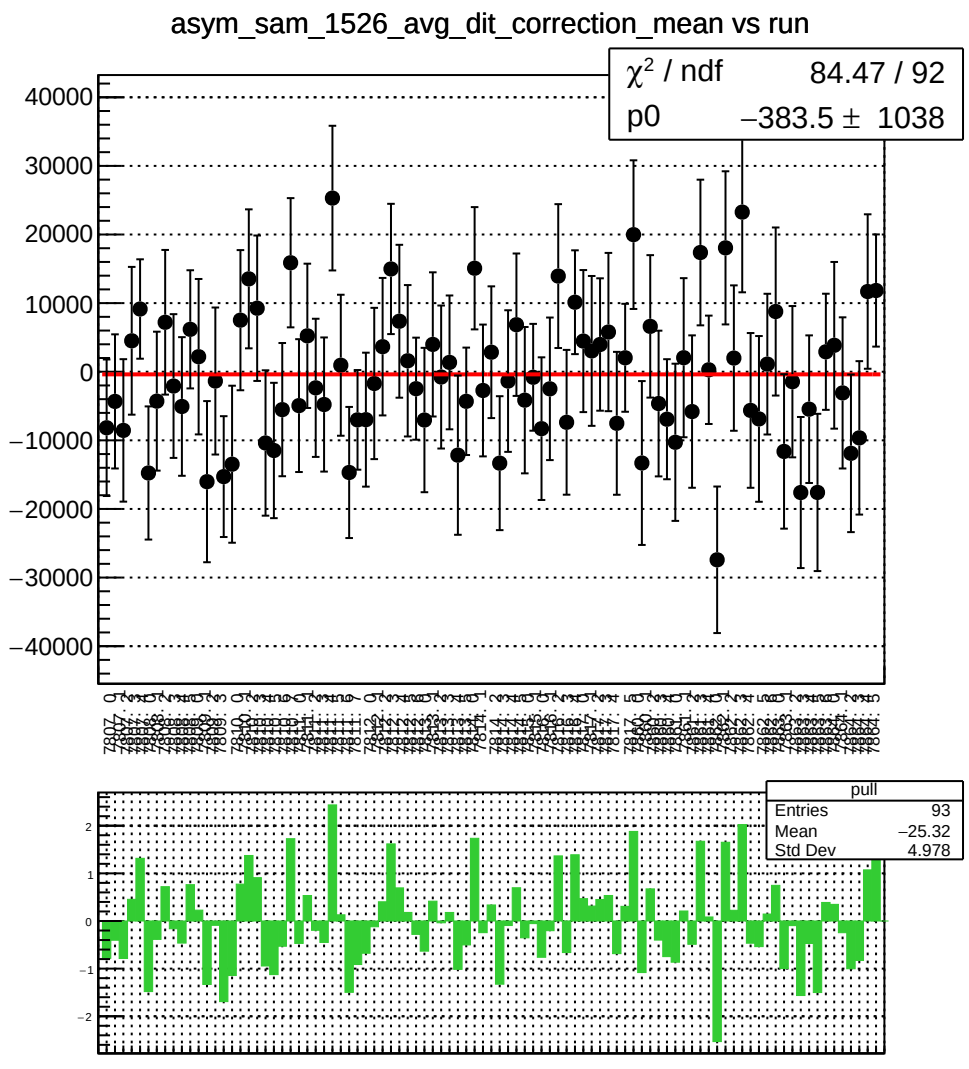

asym_sam_1526_avg_eigen_cor_correction_mean vs run
χ² / ndf 84.04 / 92
p0 −377.2 ± 1020
pull
Entries 93
Mean −36.98
Std Dev 0
pull1D
Entries 93
Mean −0.01261
Std Dev 0.9505

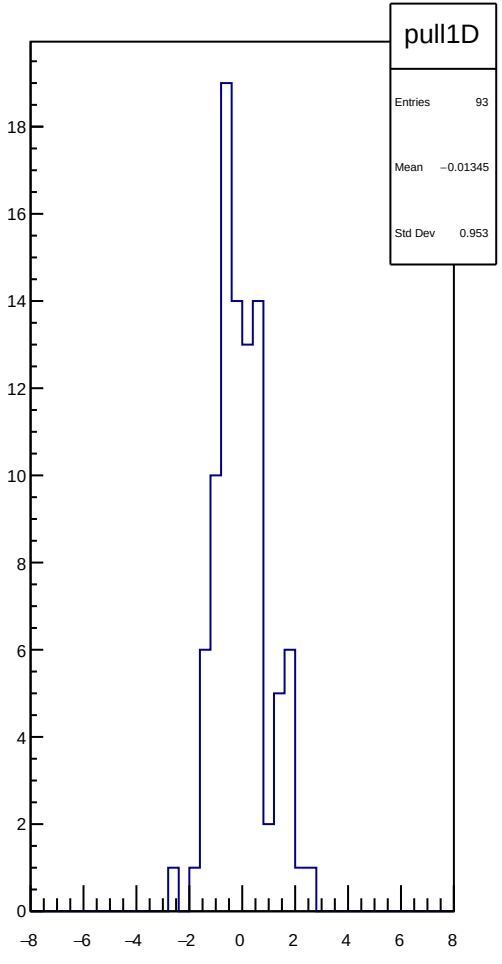

asym_sam_1526_avg_eigen_cor_correction_rms vs run
χ² / ndf 8367 / 92
p0 978.8 ± 0.721
1200
1150
1100
1050
1000
950
900
850

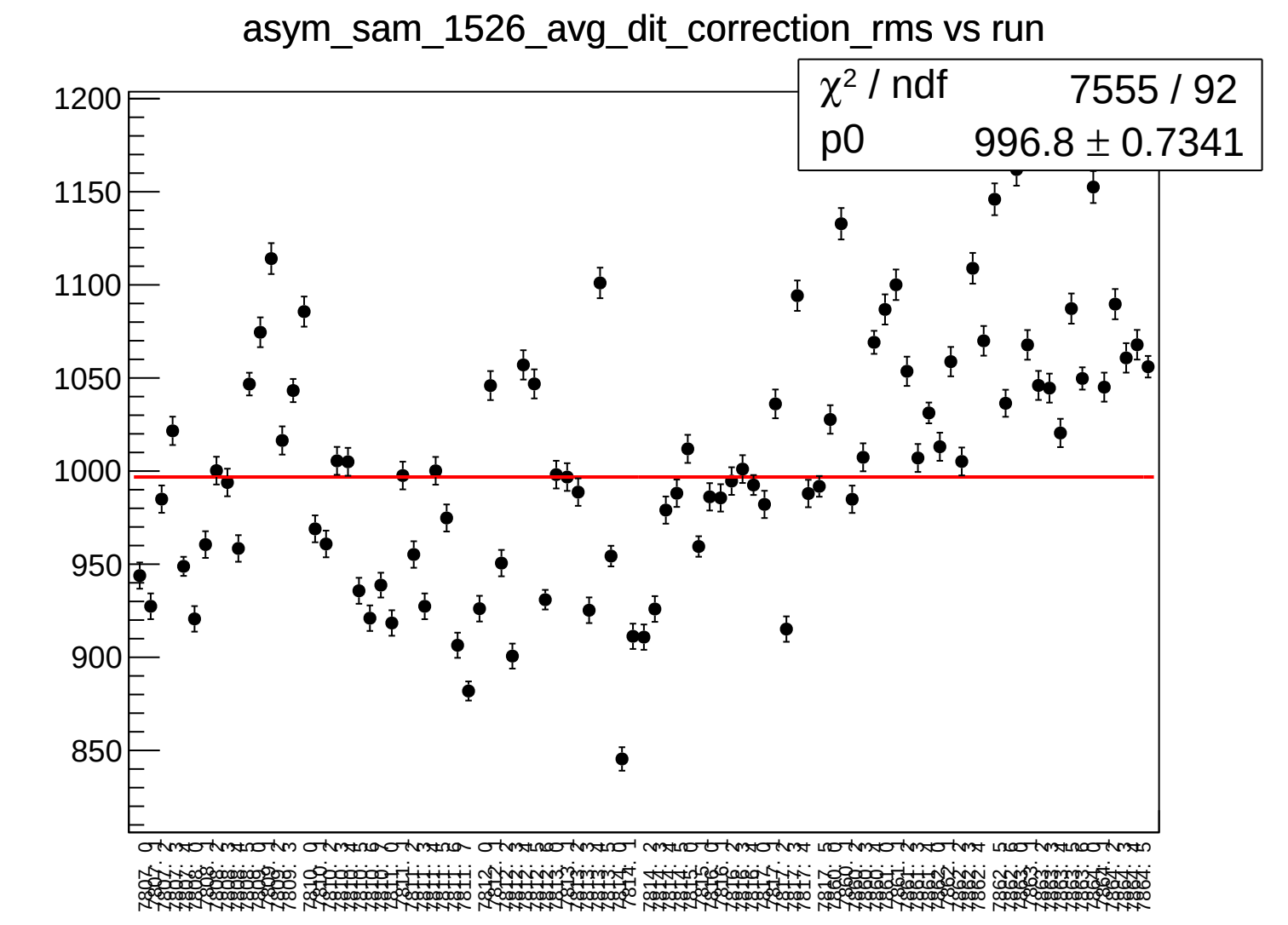

dit_asym_sam_1526_avg_mean vs run
χ² / ndf 97.44 / 92
p0 −170.6 ± 153.5
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean −402.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

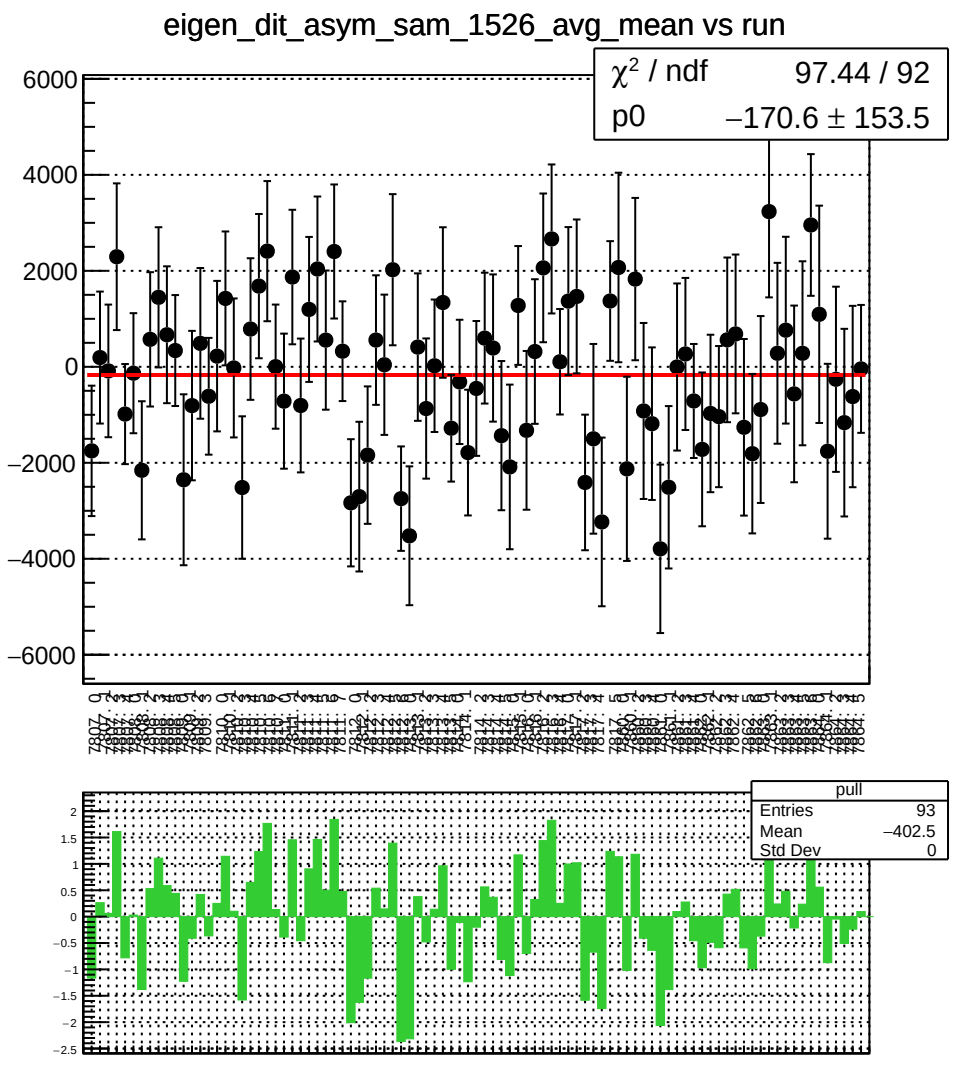

pull1D
Entries 93
Mean 0.00308
Std Dev 1.024
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

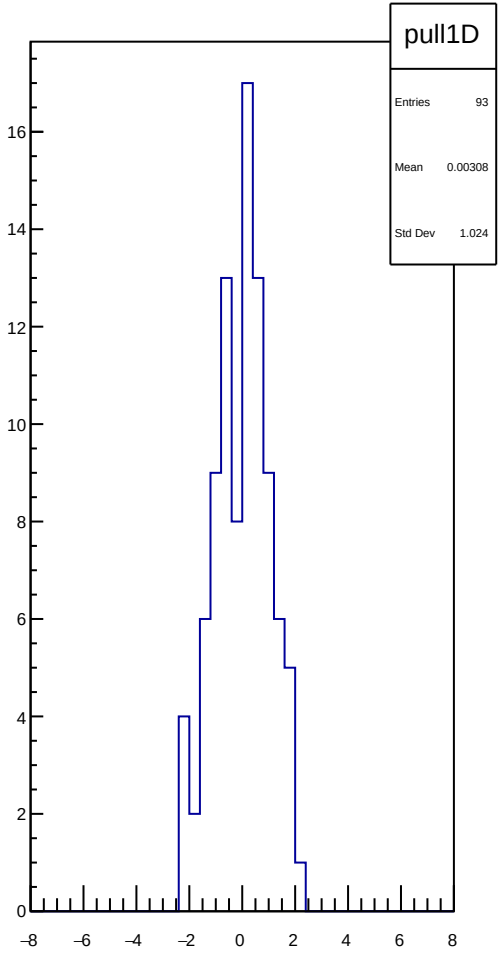

dit_asym_sam_1526_avg_rms vs run
χ² / ndf 2.644e+04 / 92
p0 146.7 ± 0.1086
220
200
180
160
140
120

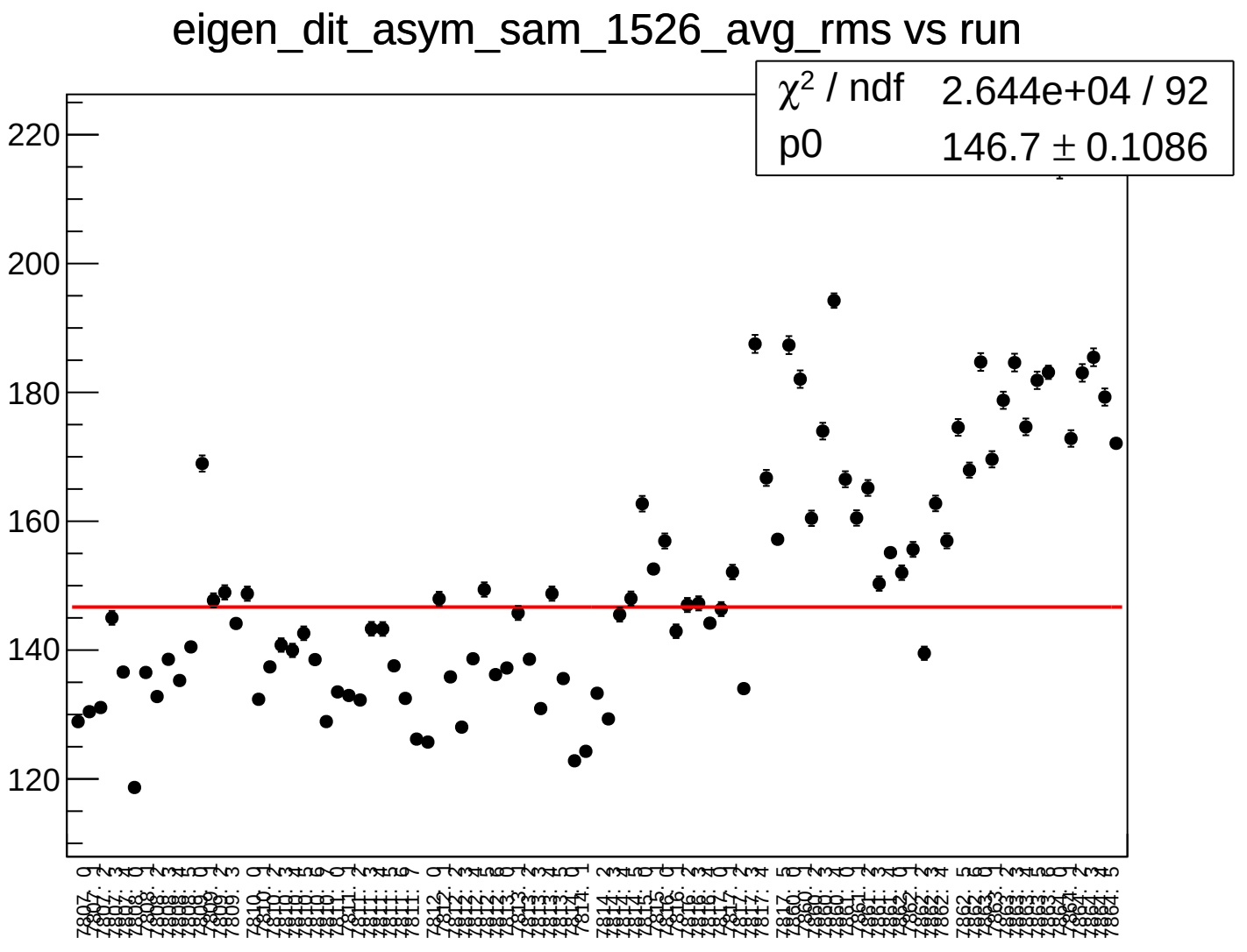

asym_sam_1526_avg_dit_correction_mean vs run
χ² / ndf 84.47 / 92
p0 −383.5 ± 1038
pull
Entries 93
Mean −25.32
Std Dev 4.978

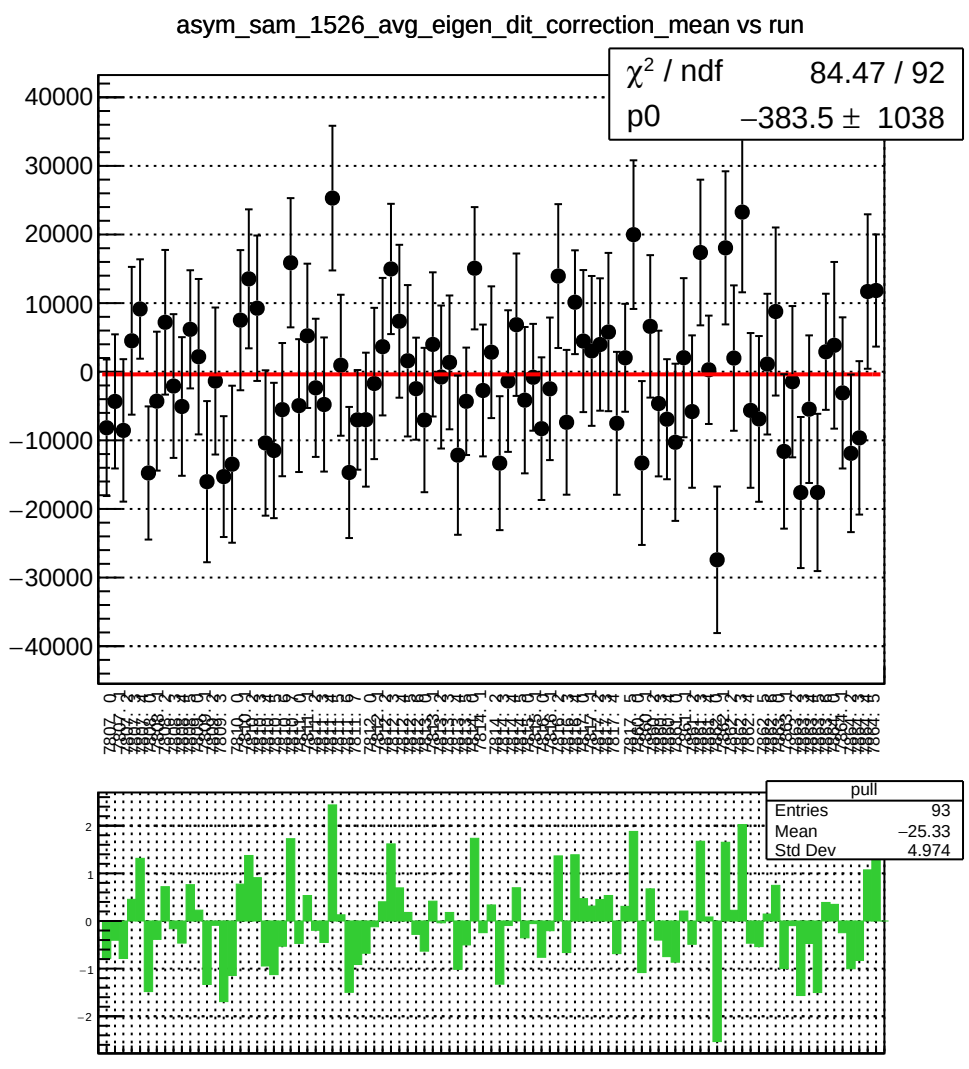

pull1D
Entries 93
Mean −0.01345
Std Dev 0.953

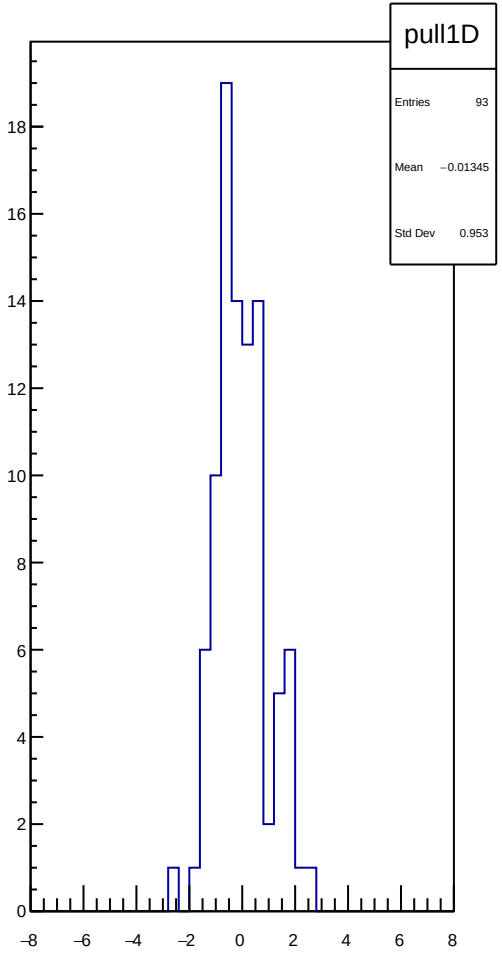

asym_sam_1526_avg_dit_correction_rms vs run
χ² / ndf 7555 / 92
p0 996.8 ± 0.7341
1200
1150
1100
1050
1000
950
900
850

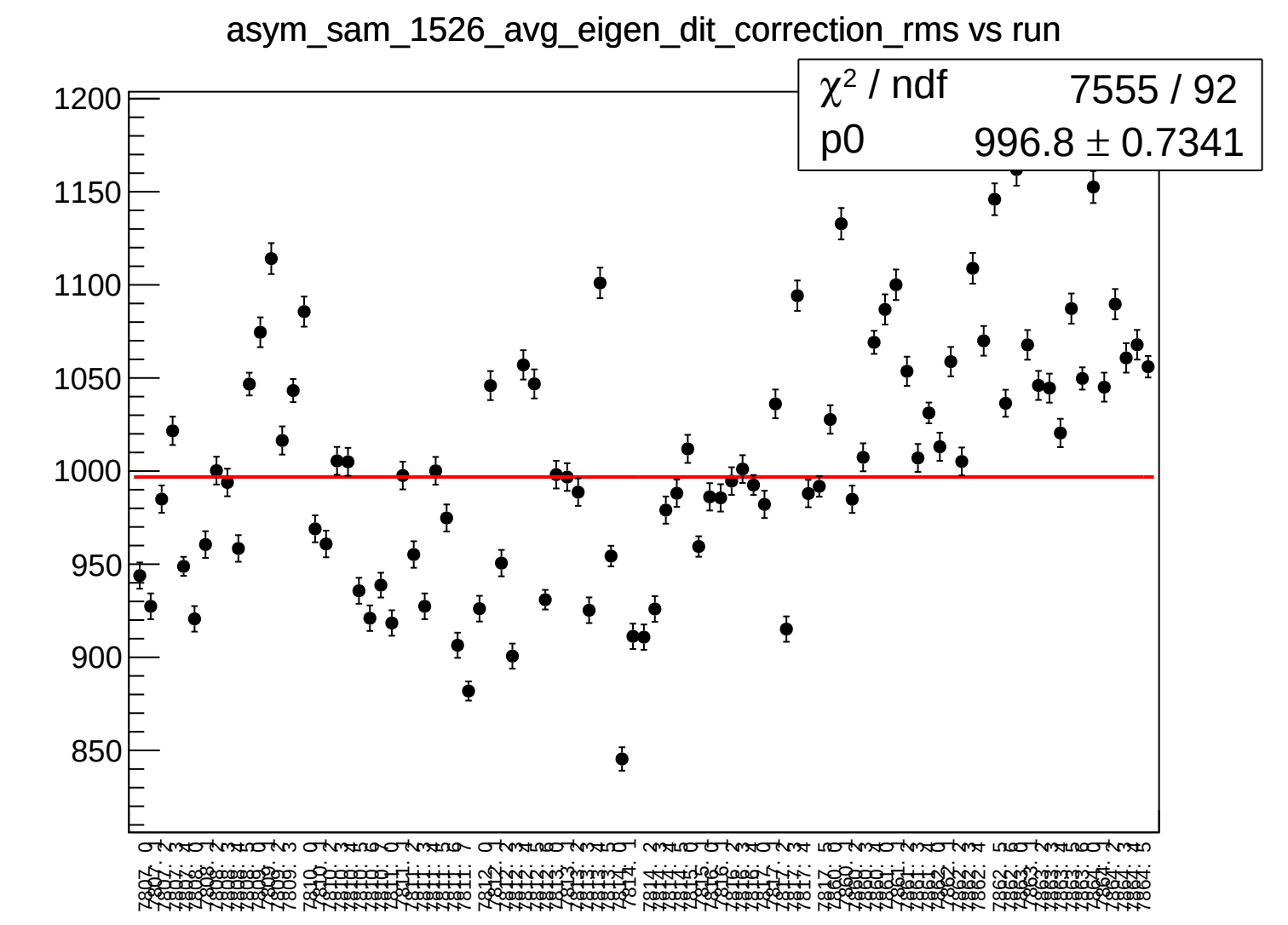

eigen_dit_asym_sam_1526_avg_mean vs run
χ² / ndf 97.44 / 92
p0 −170.6 ± 153.5
pull
Entries 93
Mean −402.5
Std Dev 0

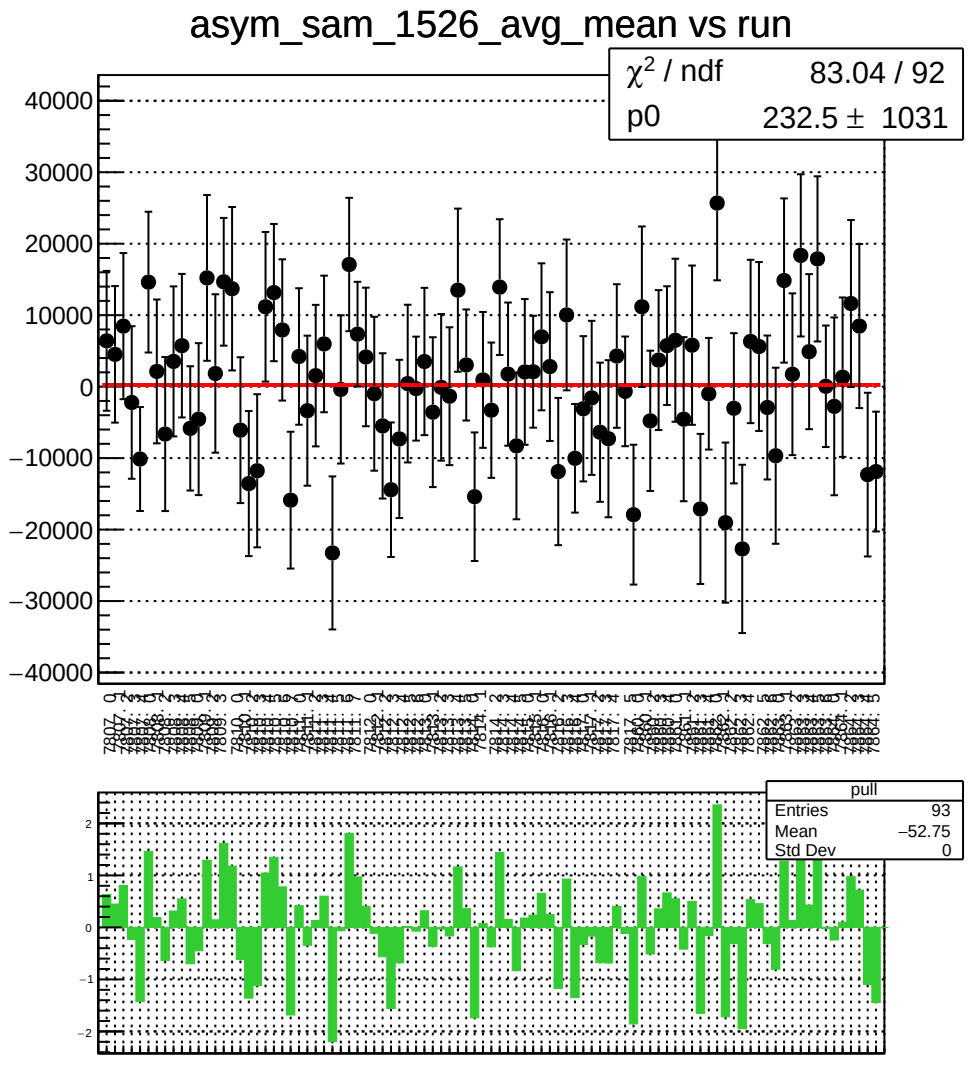

pull1D
Entries 93
Mean 0.00308
Std Dev 1.024

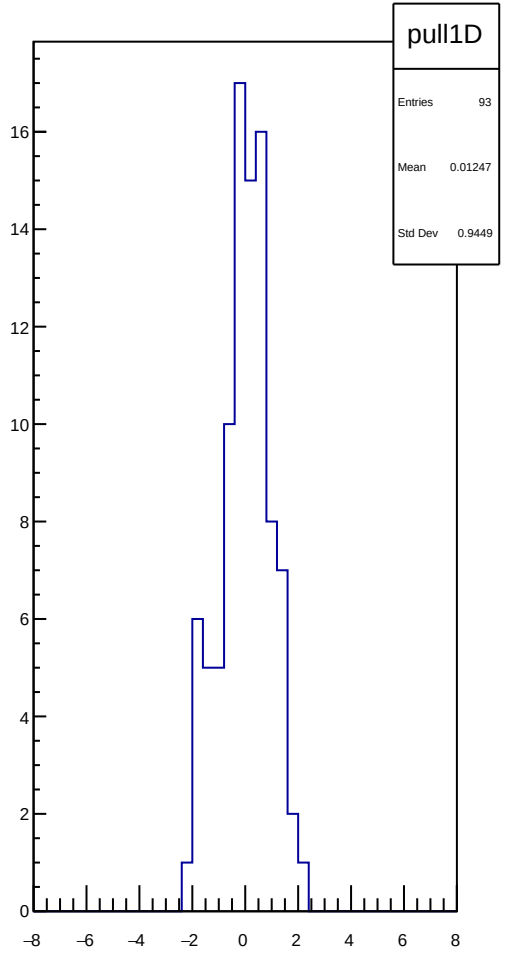

eigen_dit_asym_sam_1526_avg_rms vs run
χ² / ndf 2.644e+04 / 92
p0 146.7 ± 0.1086
220
200
180
160
140
120

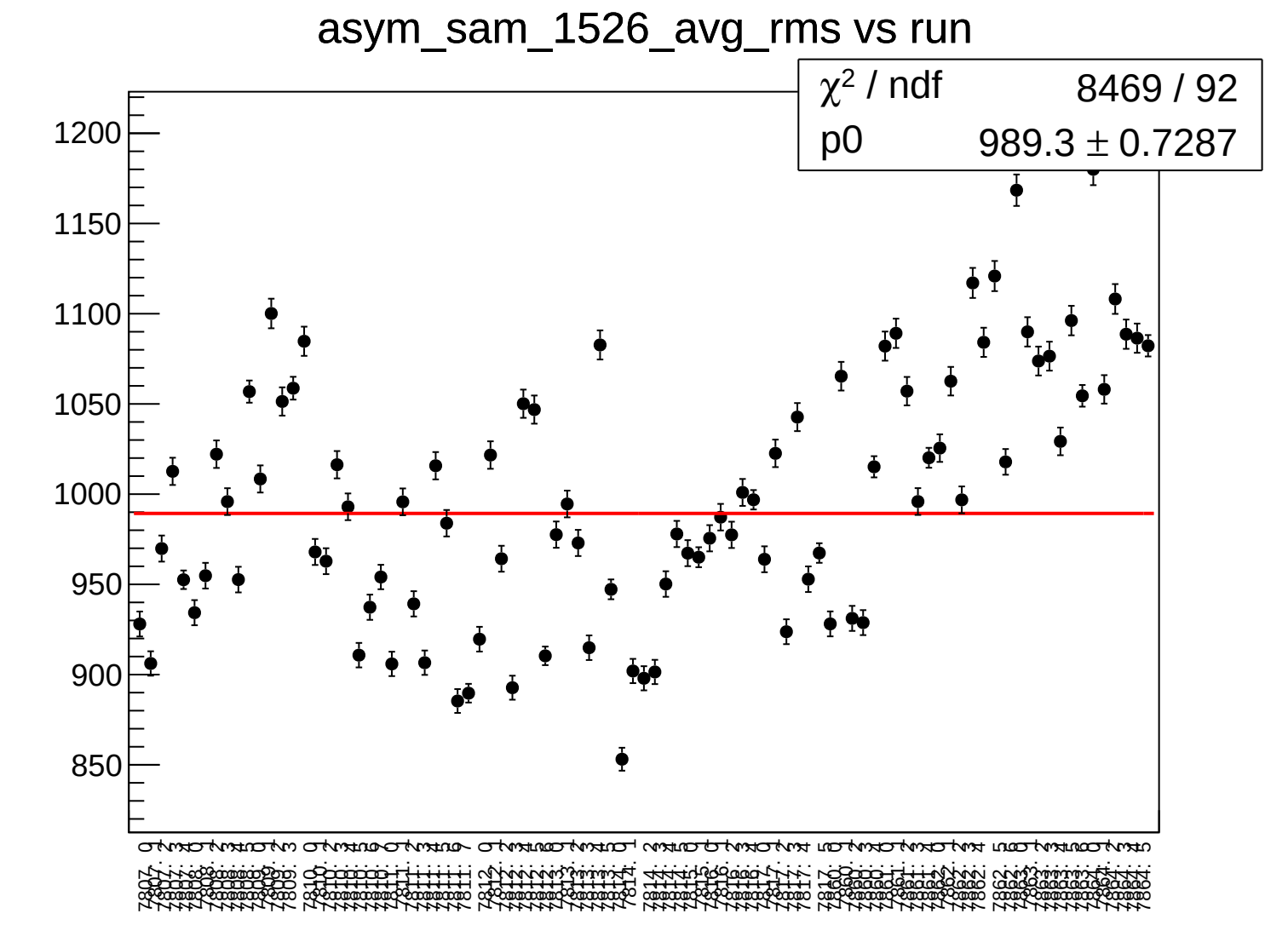

asym_sam_1526_avg_eigen_dit_correction_mean vs run
χ² / ndf 84.47 / 92
p0 −383.5 ± 1038
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean −25.33
Std Dev 4.974
2
1
0
−1
−2

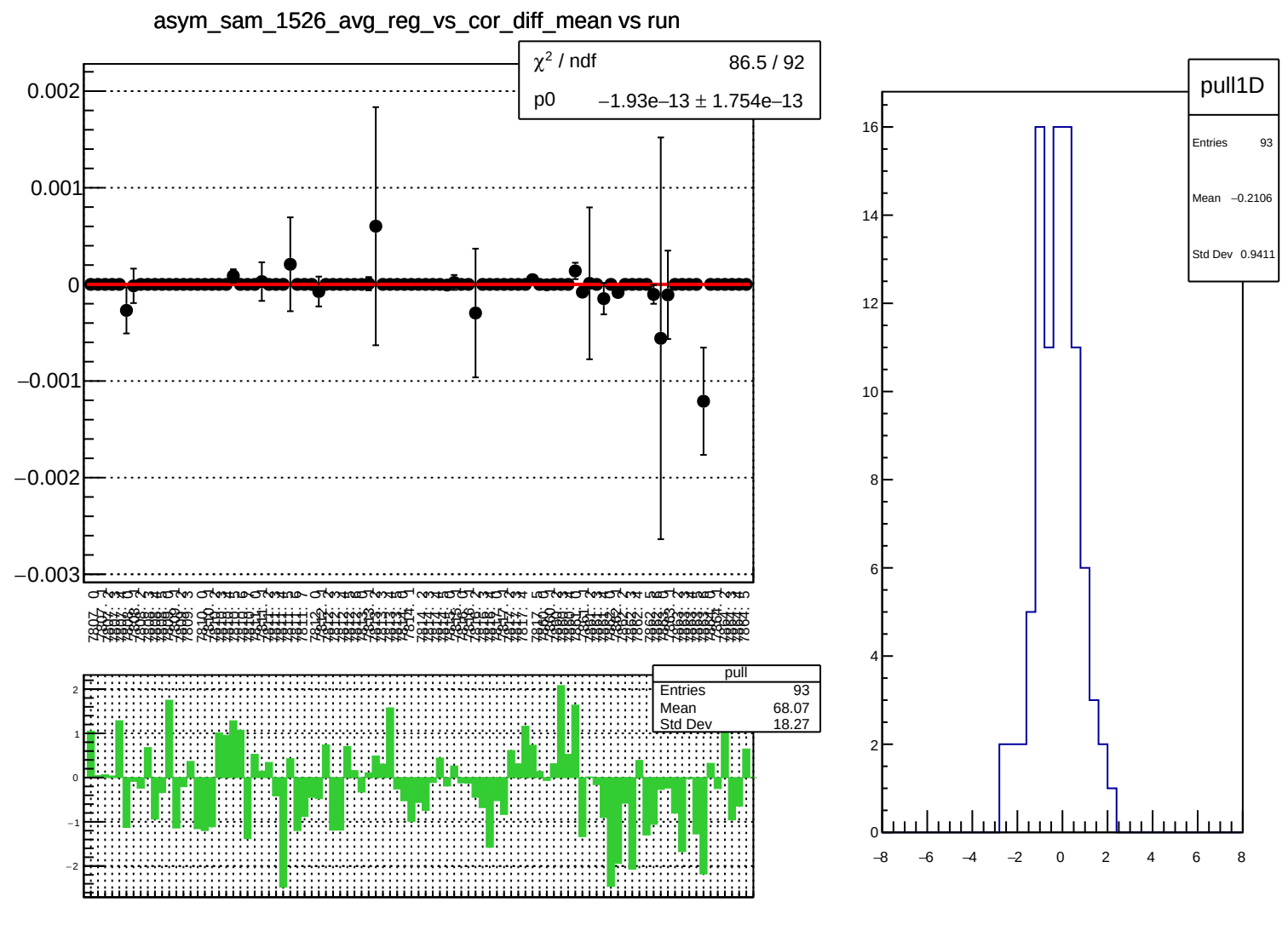

pull1D
Entries 93
Mean −0.01345
Std Dev 0.953
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

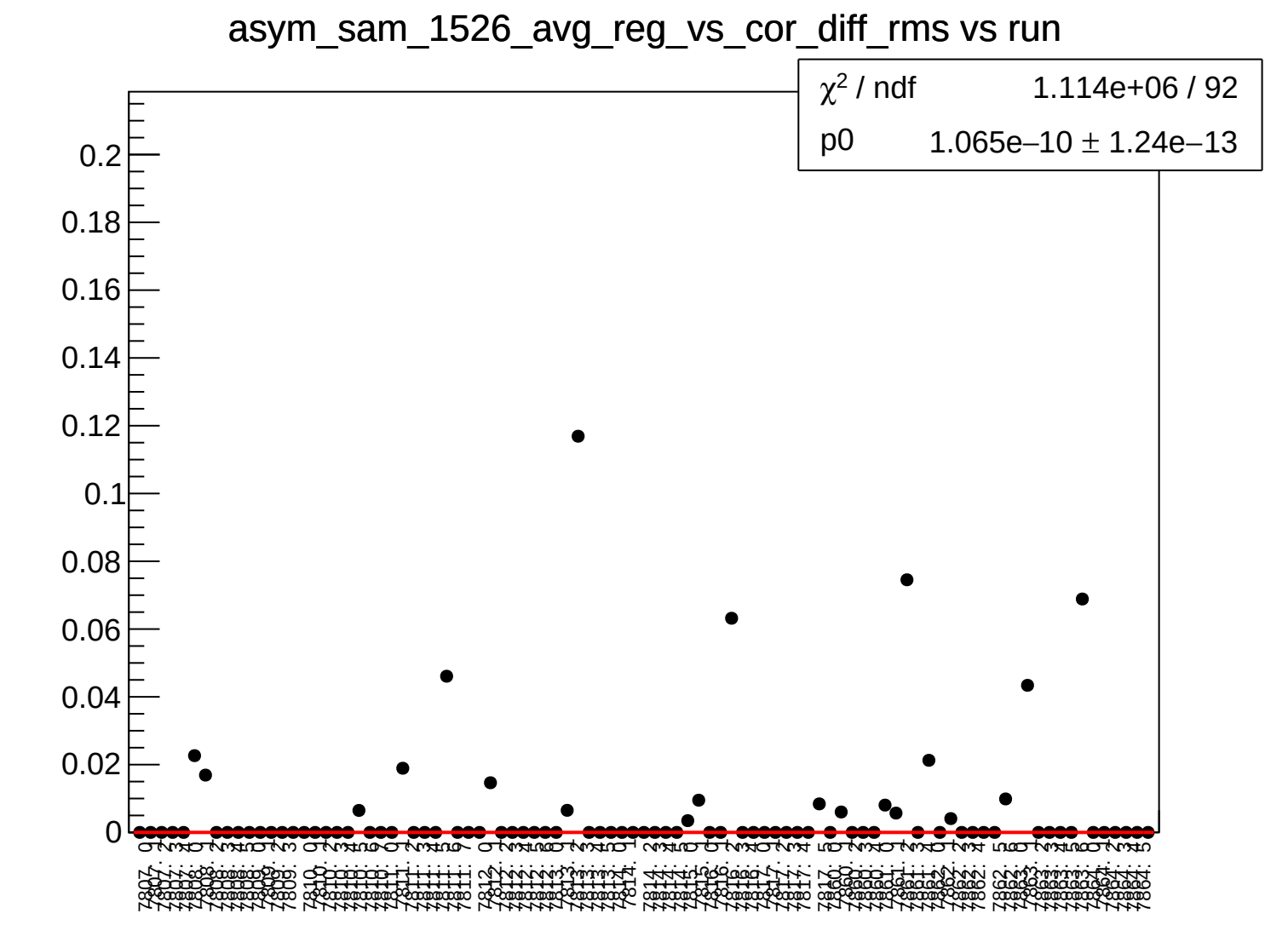

asym_sam_1526_avg_eigen_dit_correction_rms vs run
χ² / ndf 7555 / 92
p0 996.8 ± 0.7341
1200
1150
1100
1050
1000
950
900
850

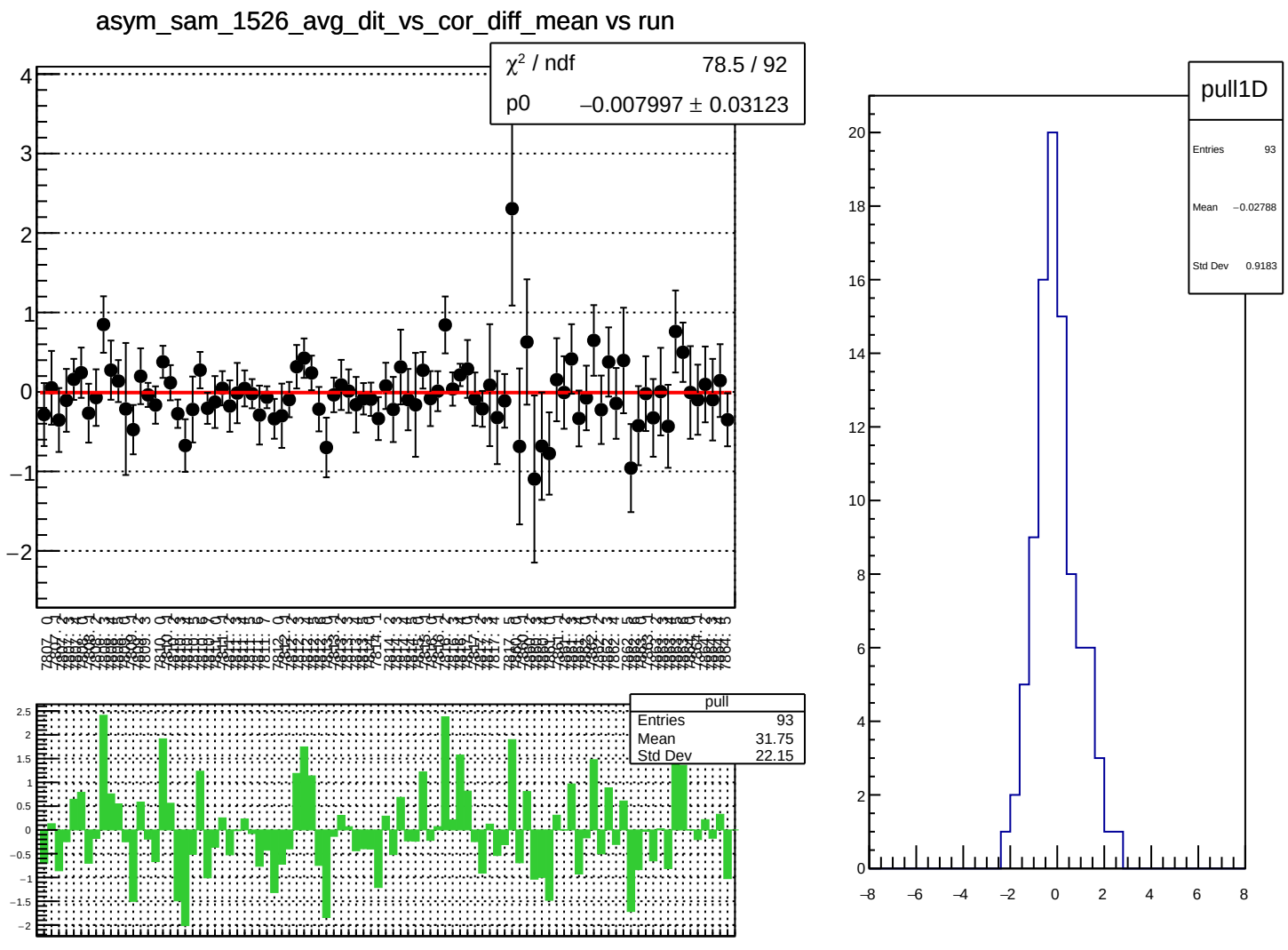

asym_sam_1526_avg_mean vs run
χ² / ndf 83.04 / 92
p0 232.5 ± 1031
pull
Entries 93
Mean −52.75
Std Dev 0

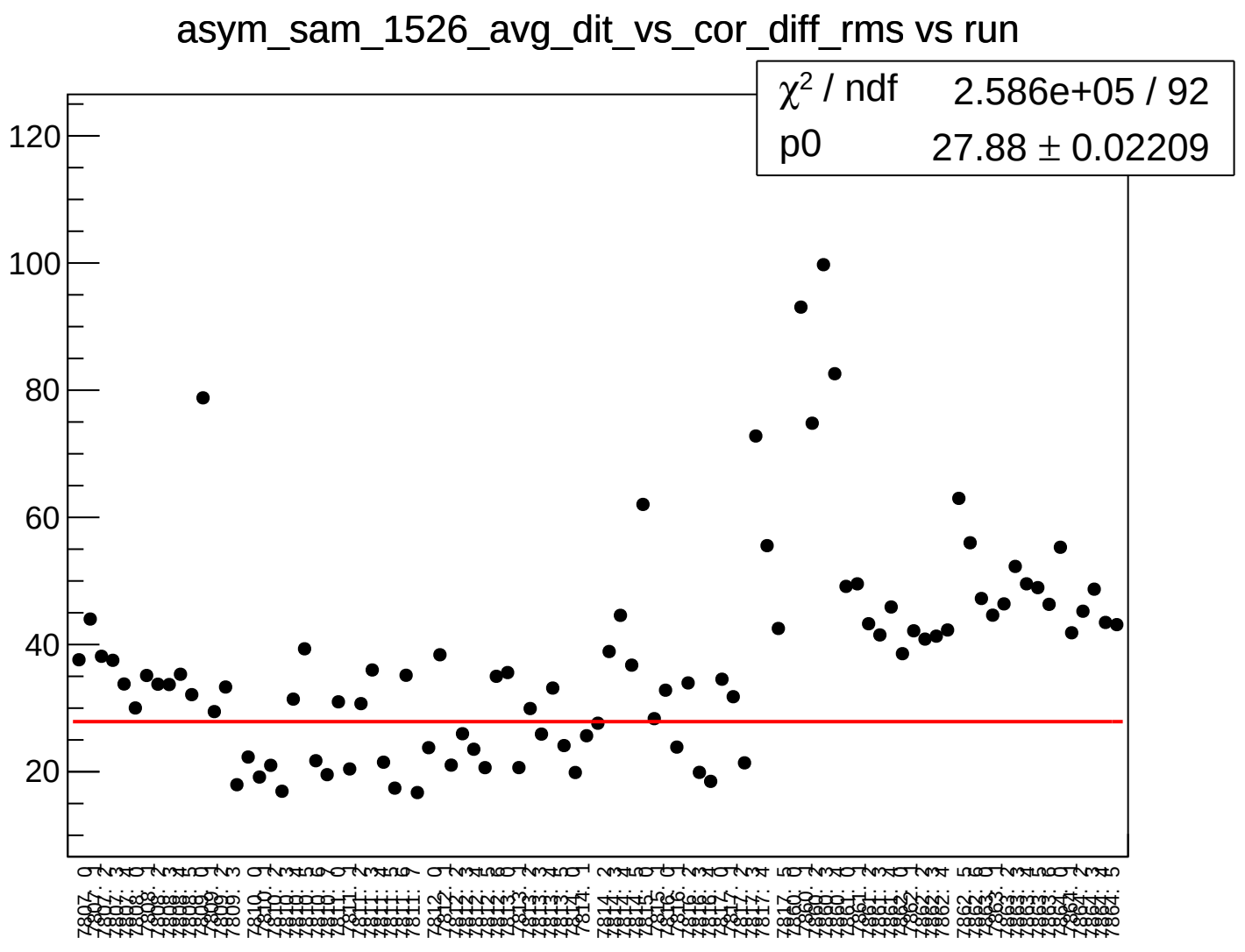

pull1D
Entries 93
Mean 0.01247
Std Dev 0.9449

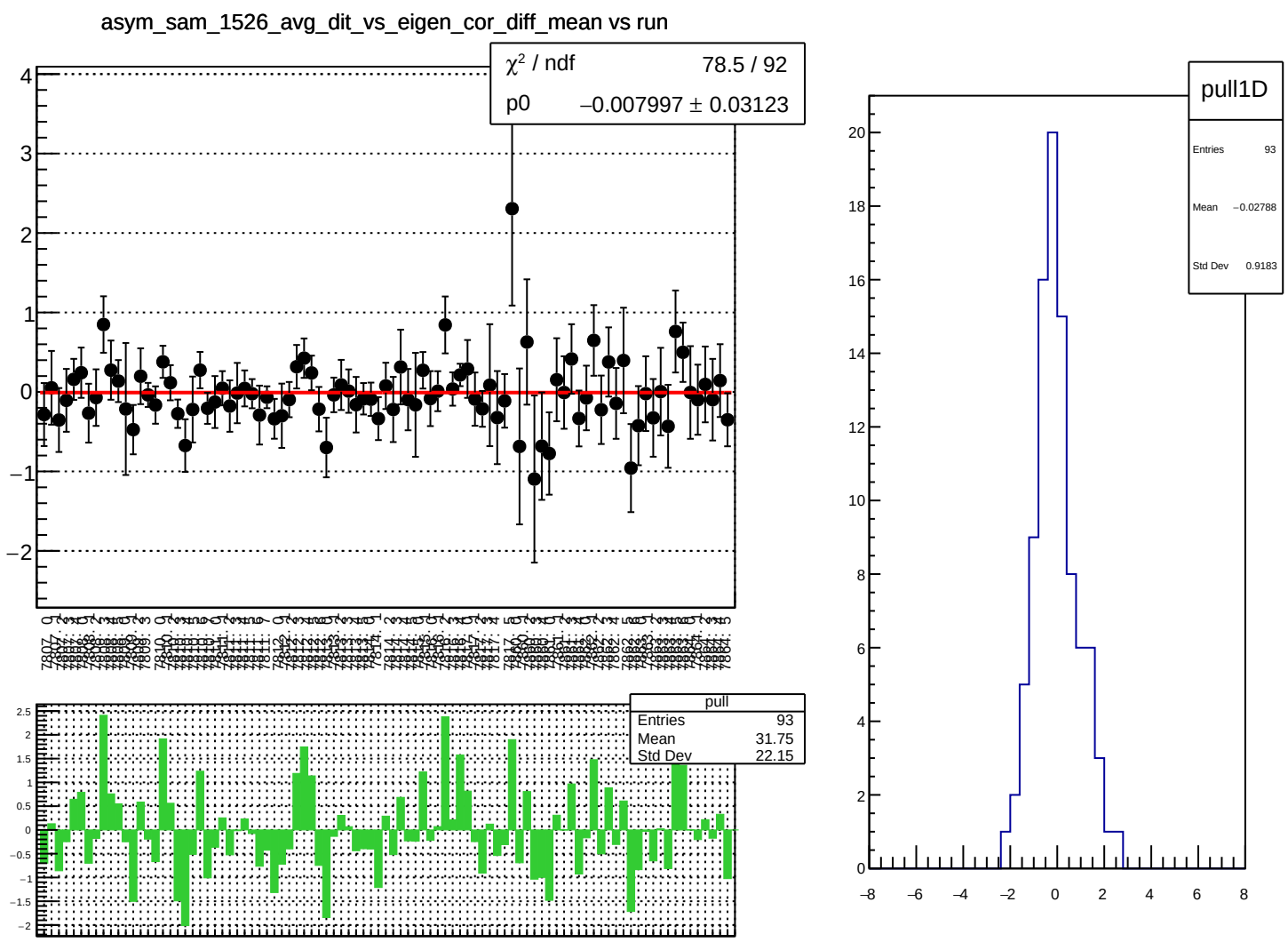

asym_sam_1526_avg_rms vs run
χ² / ndf 8469 / 92
p0 989.3 ± 0.7287
1200
1150
1100
1050
1000
950
900
850

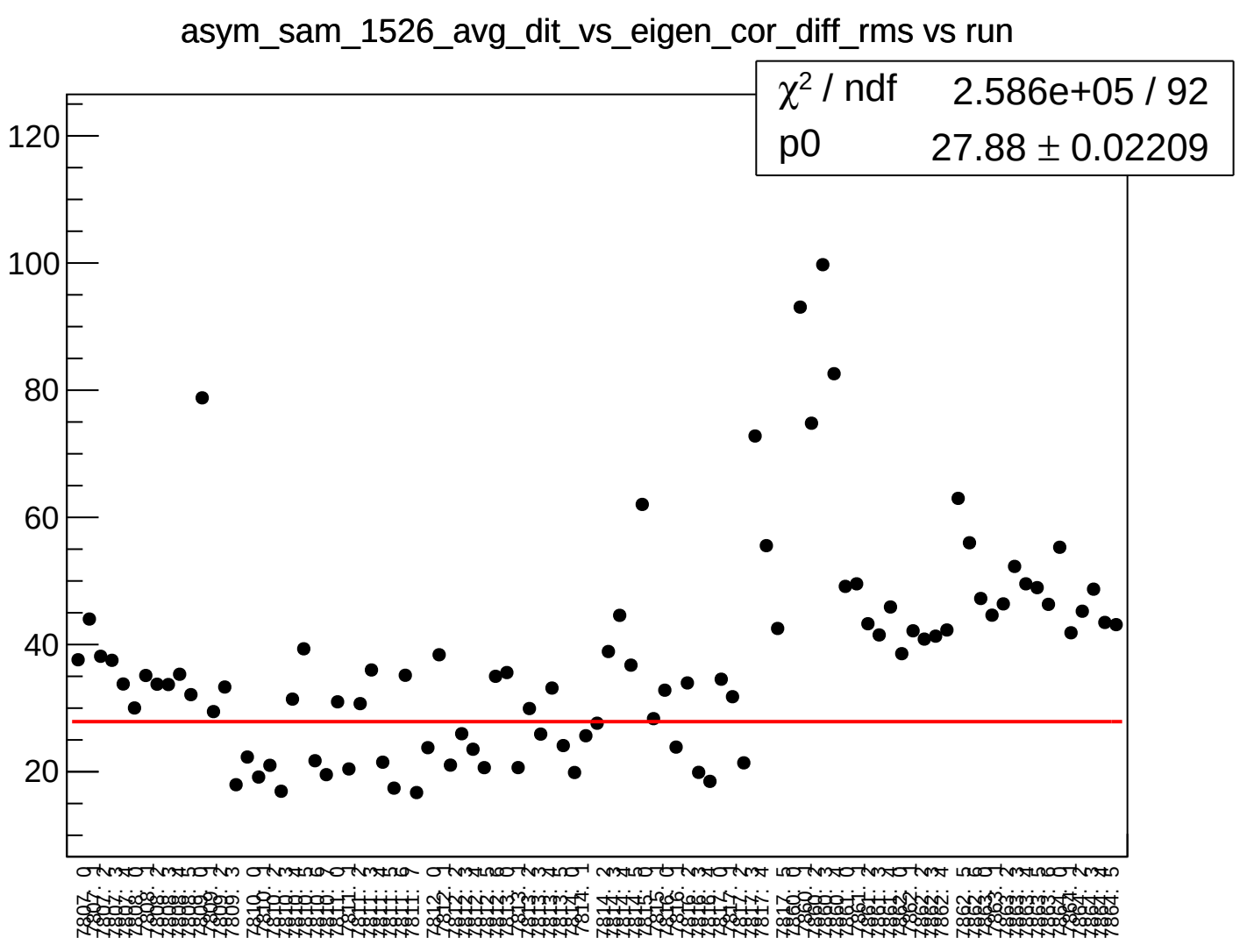

asym_sam_1526_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 86.5 / 92
p0 −1.93e−13 ± 1.754e−13
0.002
0.001
0
−0.001
−0.002
−0.003
pull
Entries 93
Mean 68.07
Std Dev 18.27
pull1D
Entries 93
Mean −0.2106
Std Dev 0.9411

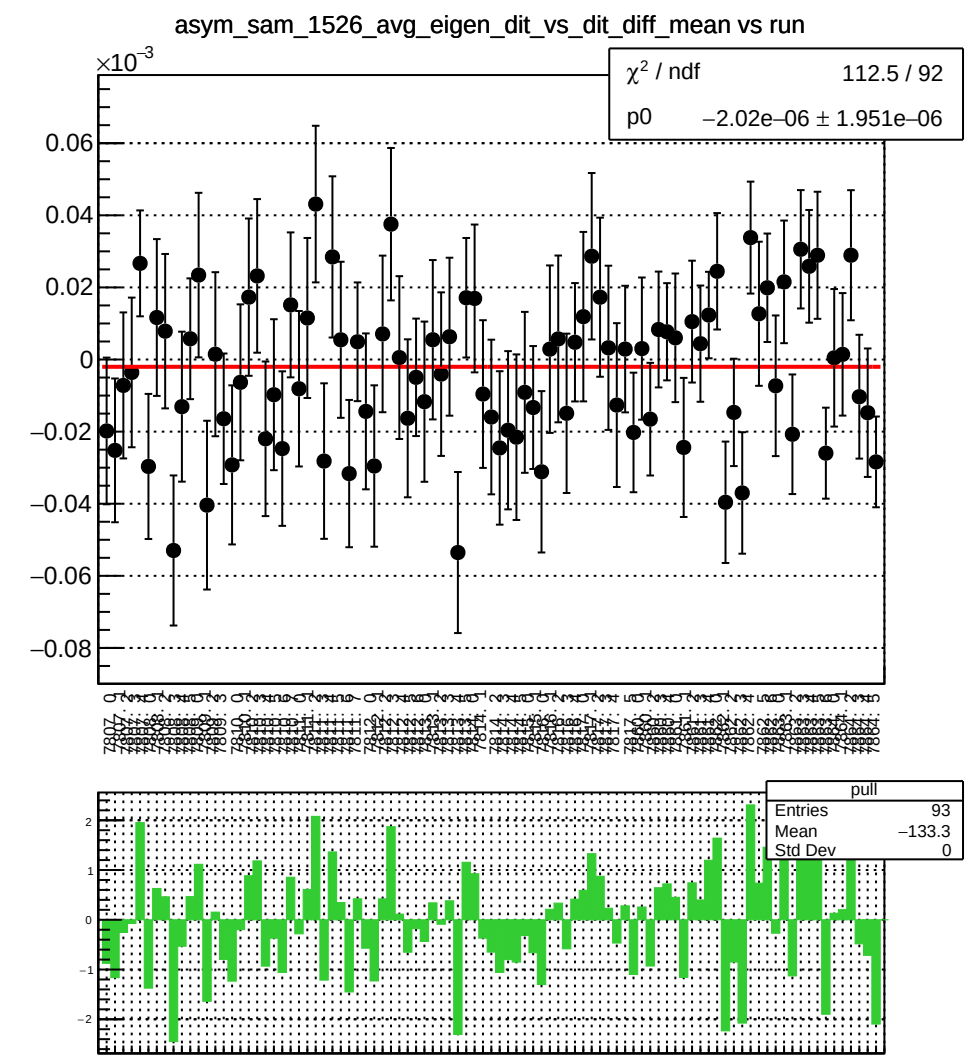

asym_sam_1526_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.114e+06 / 92
p0 1.065e−10 ± 1.24e−13
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

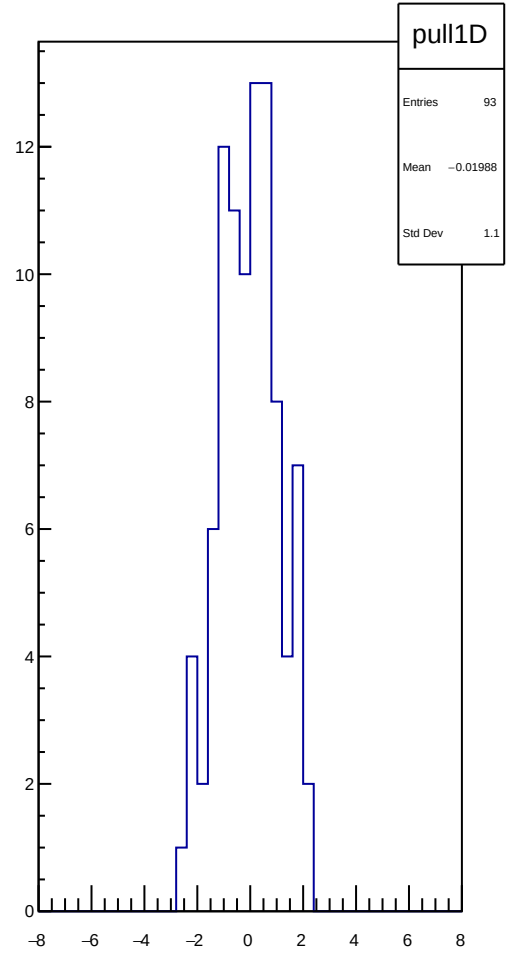

asym_sam_1526_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 78.5 / 92
p0 −0.007997 ± 0.03123
pull
Entries 93
Mean 31.75
Std Dev 22.15
pull1D
Entries 93
Mean −0.02788
Std Dev 0.9183

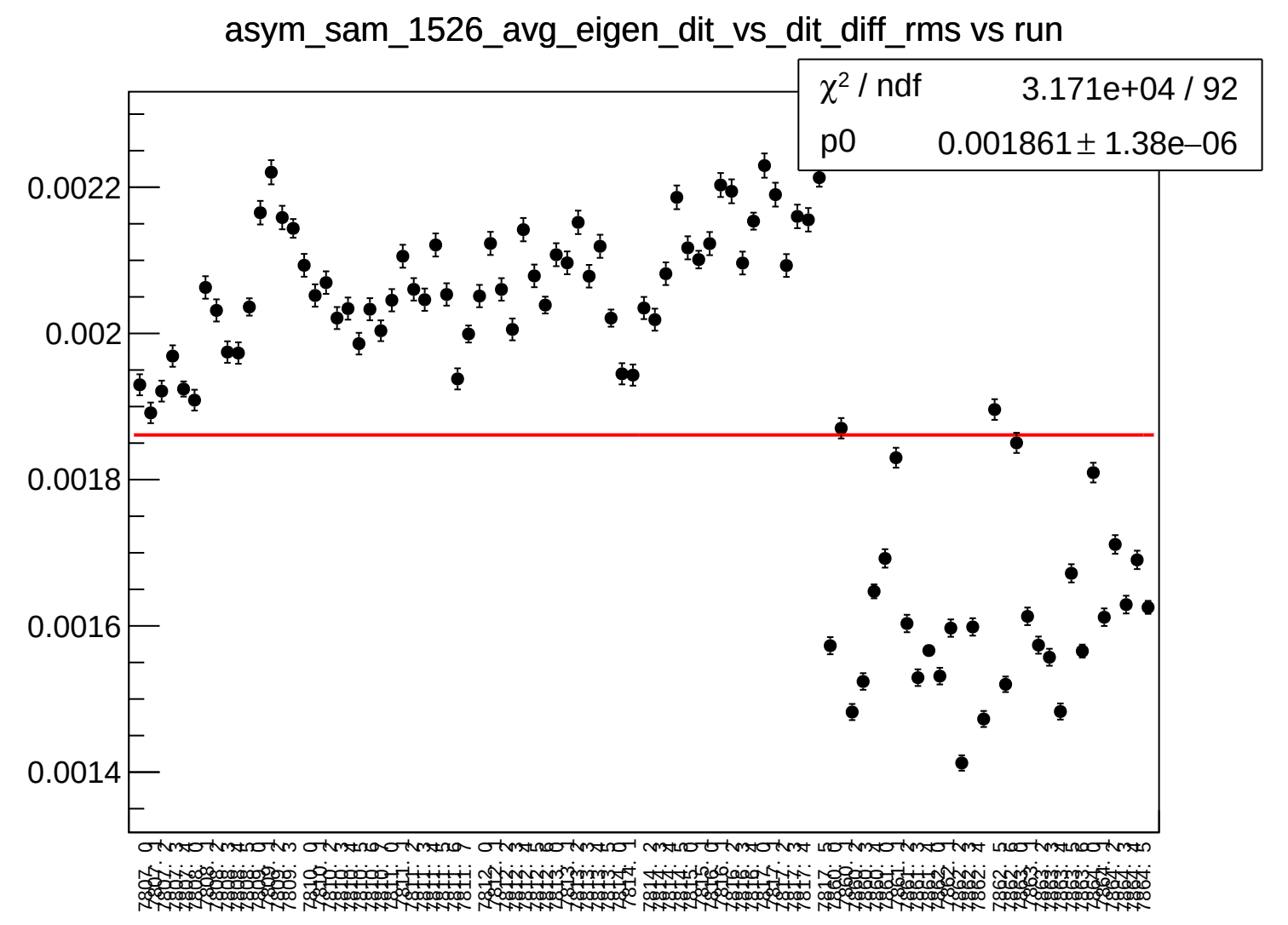

asym_sam_1526_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.586e+05 / 92
p0 27.88 ± 0.02209
120
100
80
60
40
20

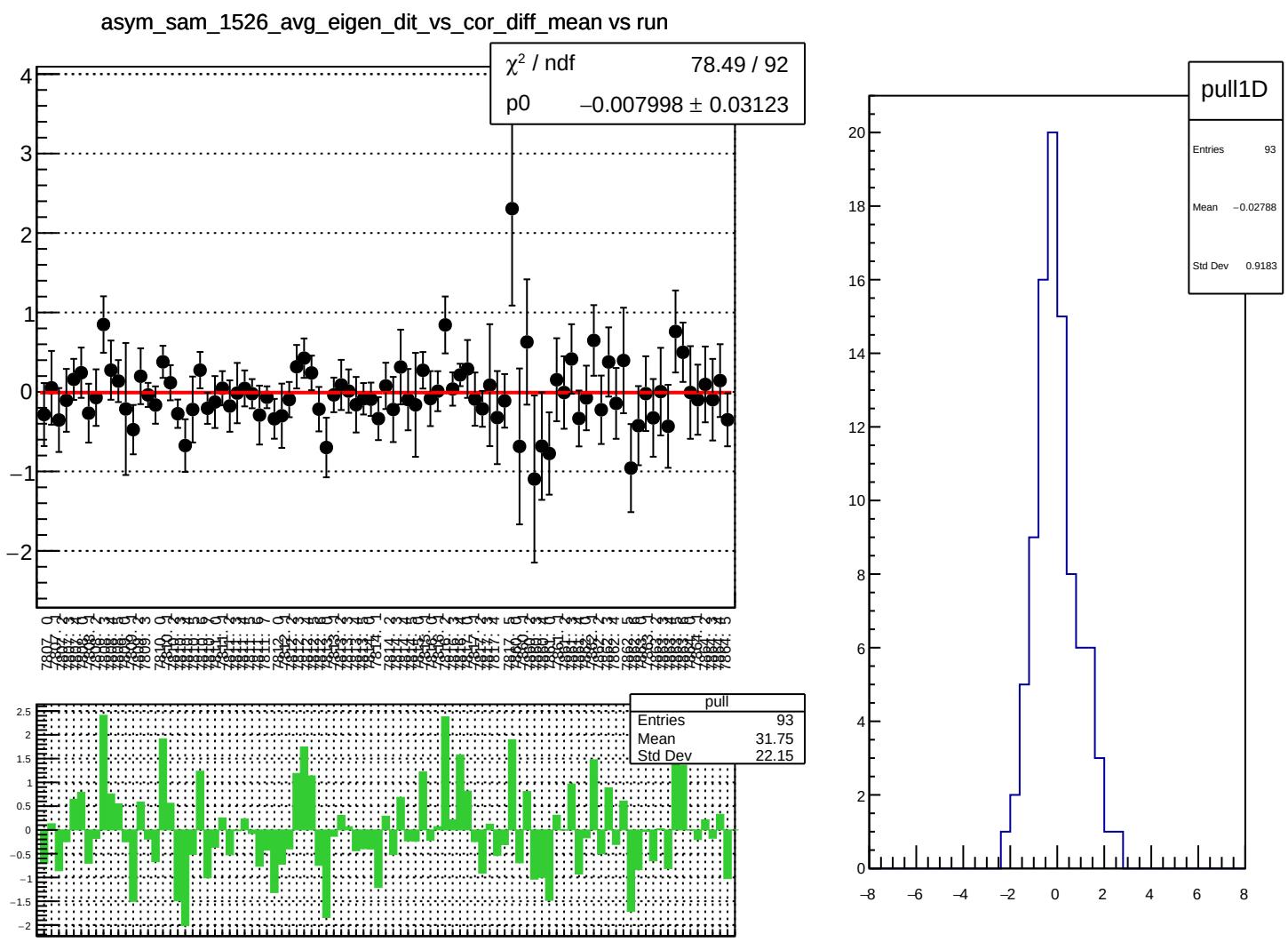

asym_sam_1526_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.5 / 92
p0 −0.007997 ± 0.03123
pull
Entries 93
Mean 31.75
Std Dev 22.15
pull1D
Entries 93
Mean −0.02788
Std Dev 0.9183

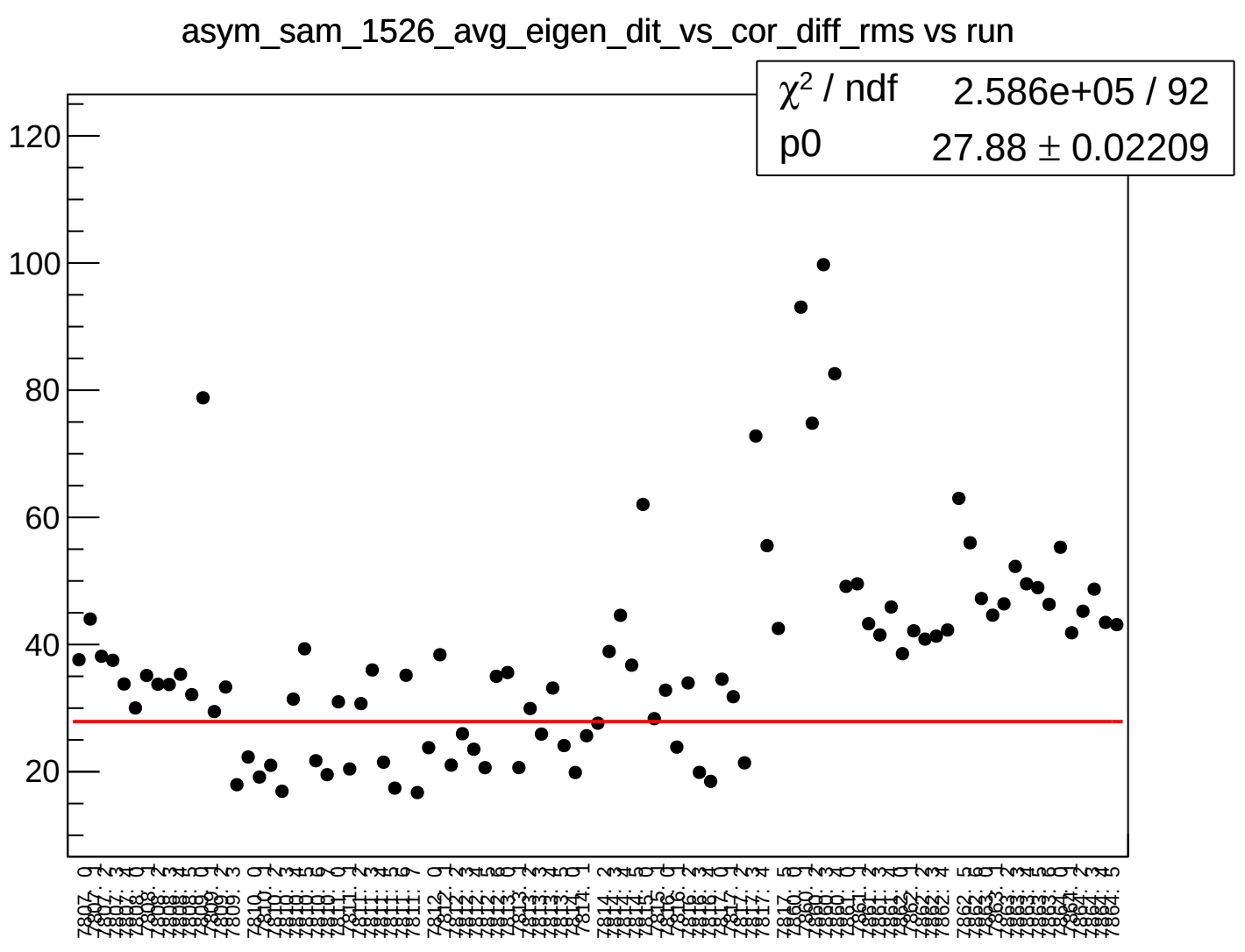

asym_sam_1526_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.586e+05 / 92
p0 27.88 ± 0.02209
120
100
80
60
40
20

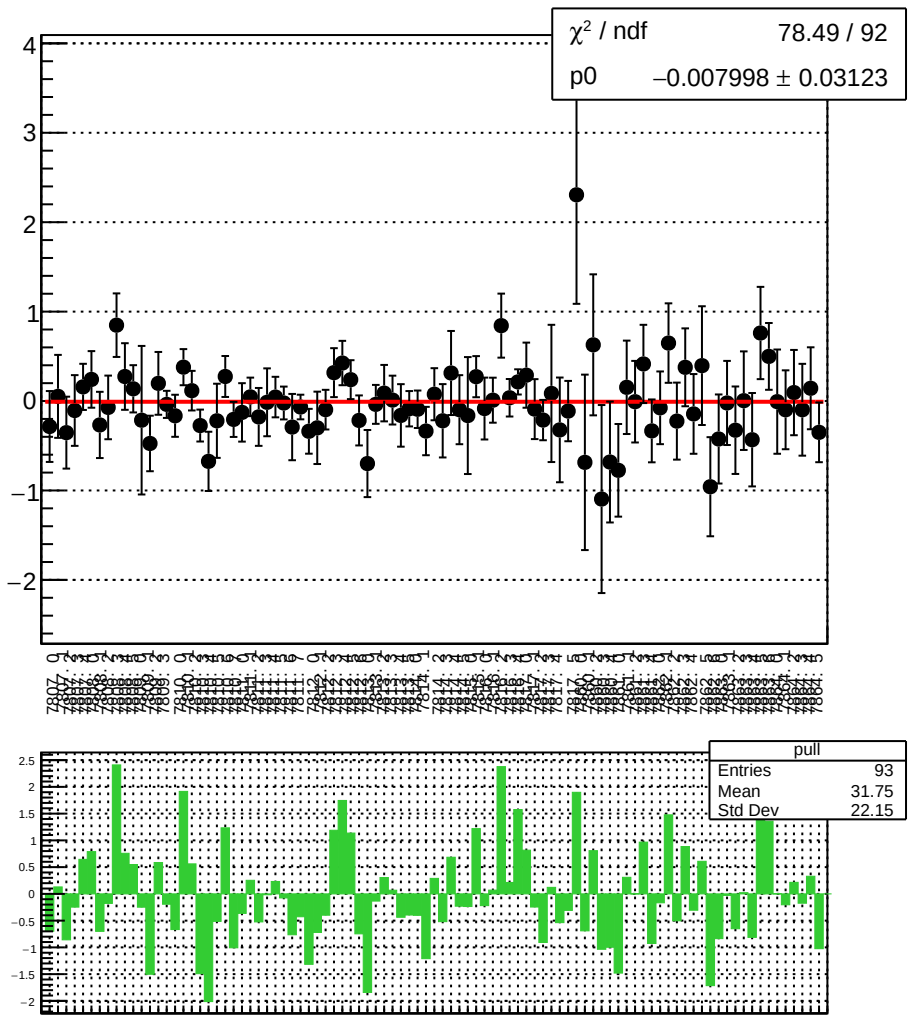

asym_sam_1526_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 112.5 / 92
p0 −2.02e−06 ± 1.951e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 93
Mean −133.3
Std Dev 0
2
1
0
−1
−2

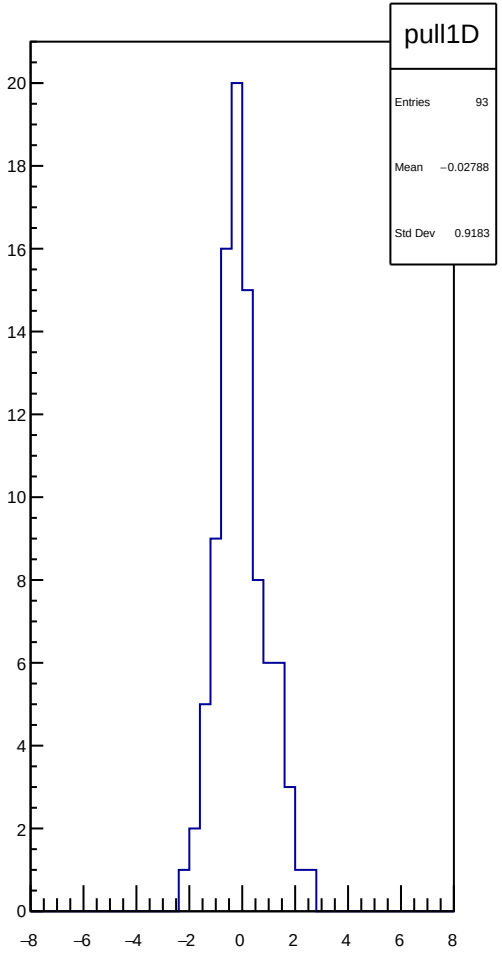

pull1D
Entries 93
Mean −0.01988
Std Dev 1.1
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

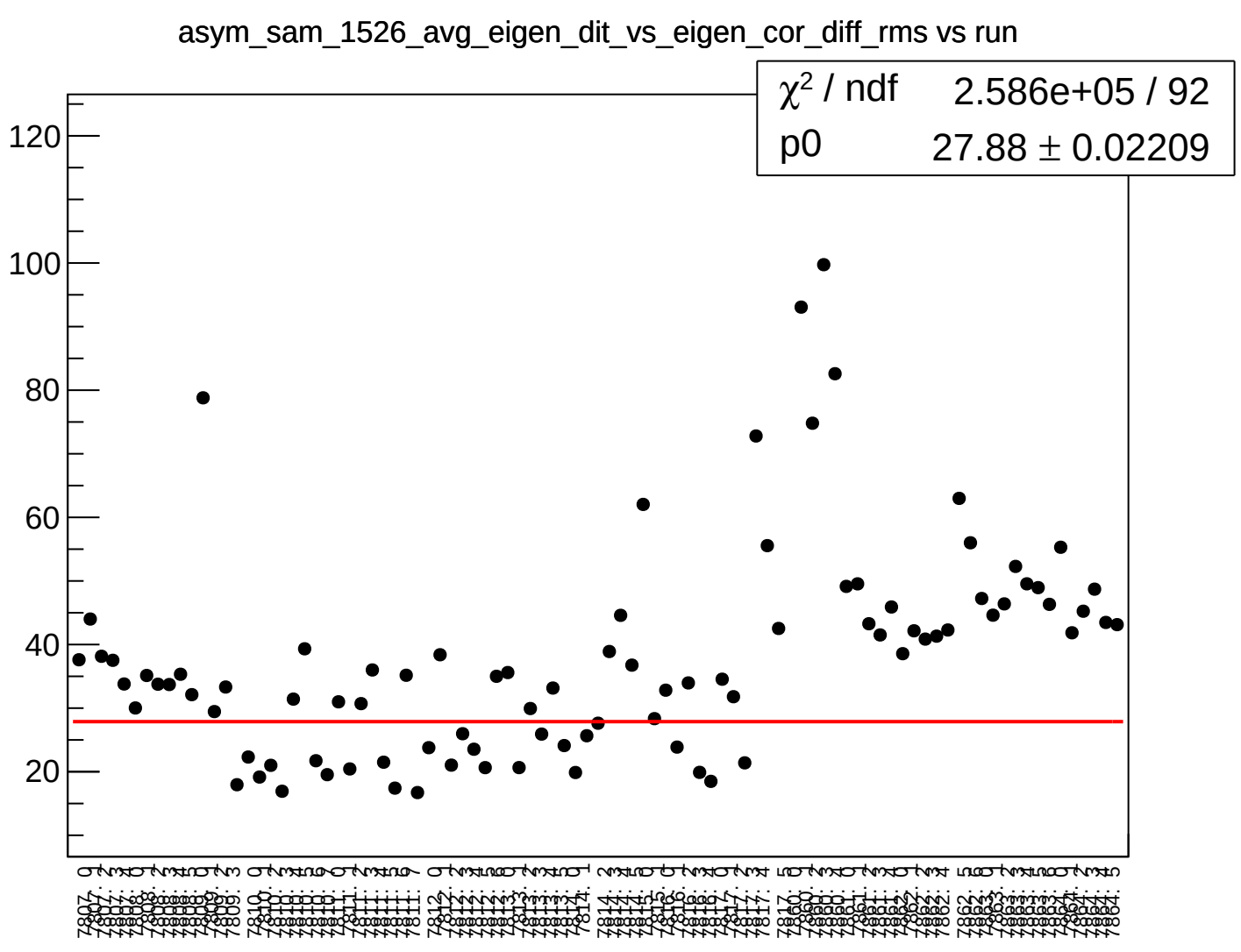

asym_sam_1526_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.171e+04 / 92
p0 0.001861 ± 1.38e–06
0.0022
0.002
0.0018
0.0016
0.0014

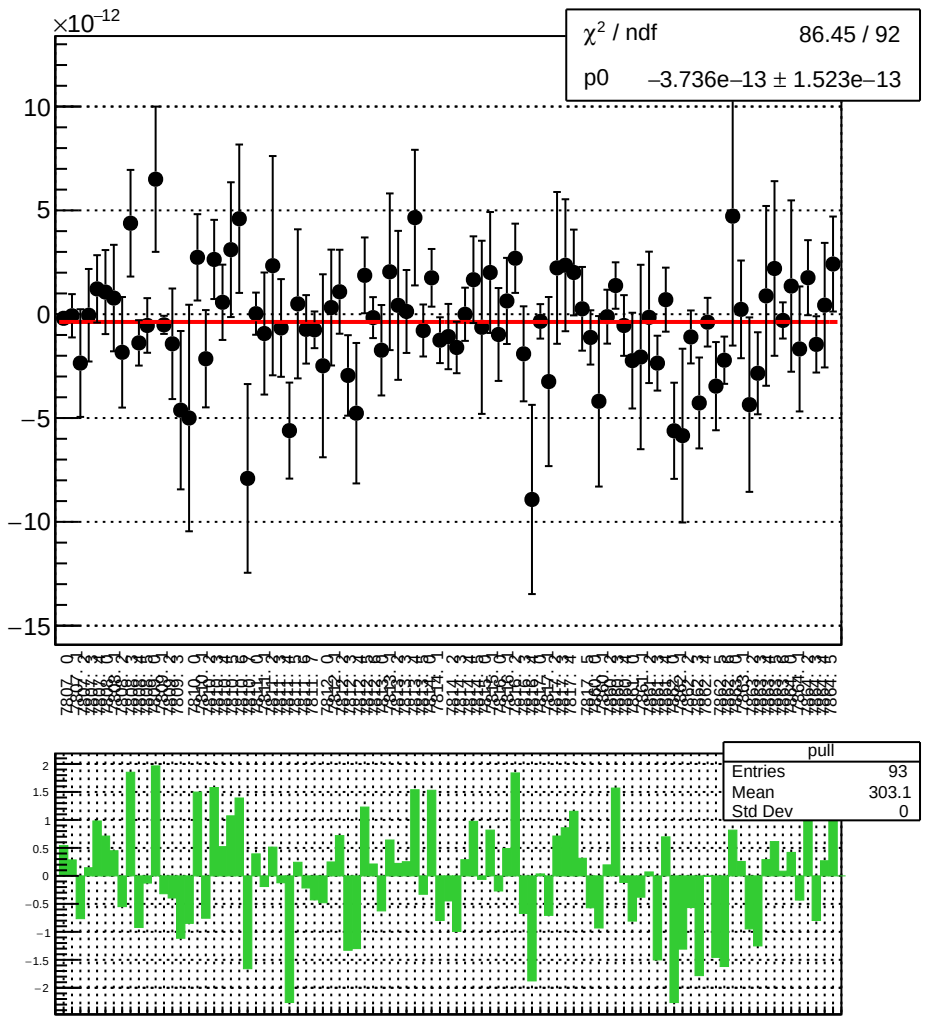

asym_sam_1526_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.49 / 92
p0 −0.007998 ± 0.03123
pull
Entries 93
Mean 31.75
Std Dev 22.15
pull1D
Entries 93
Mean −0.02788
Std Dev 0.9183

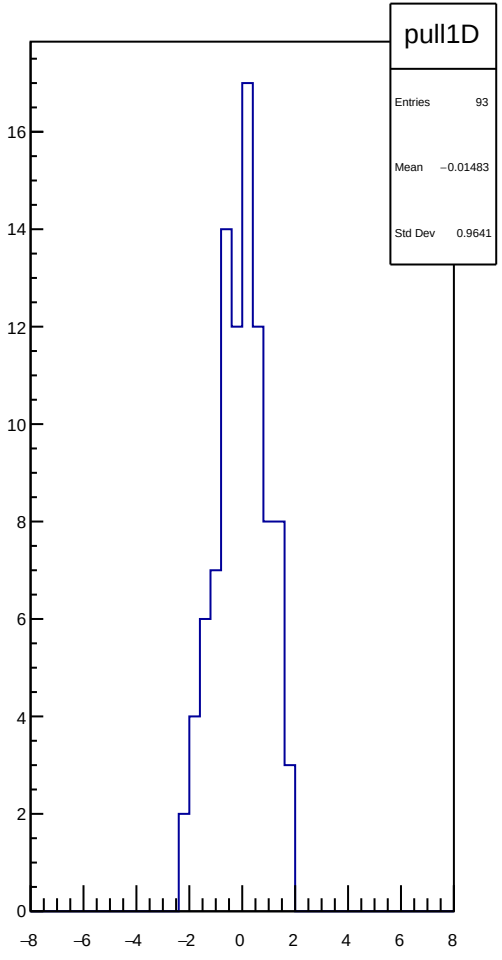

asym_sam_1526_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.586e+05 / 92
p0 27.88 ± 0.02209
120
100
80
60
40
20

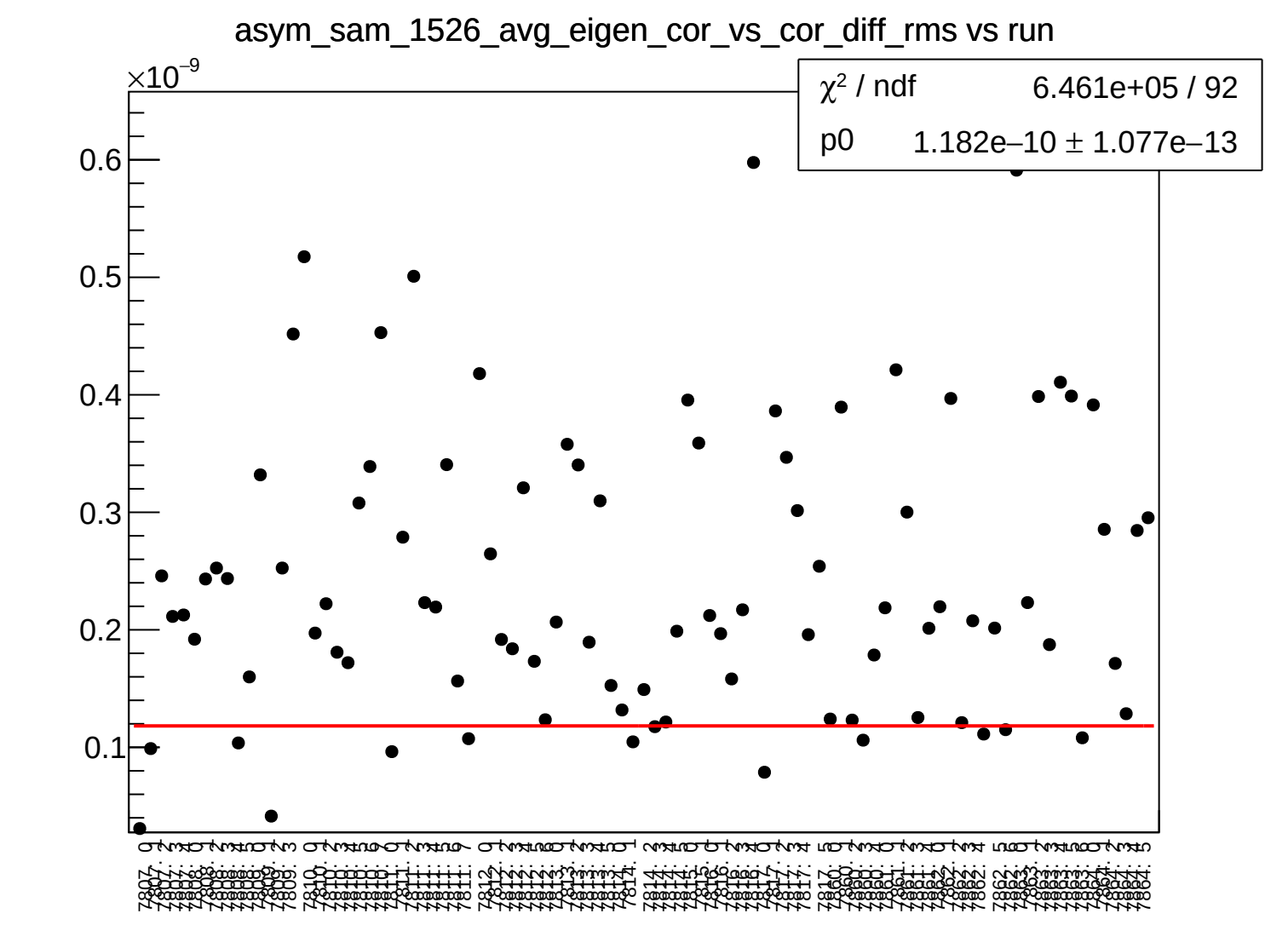

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.49 / 92
p0 −0.007998 ± 0.03123
pull
Entries 93
Mean 31.75
Std Dev 22.15

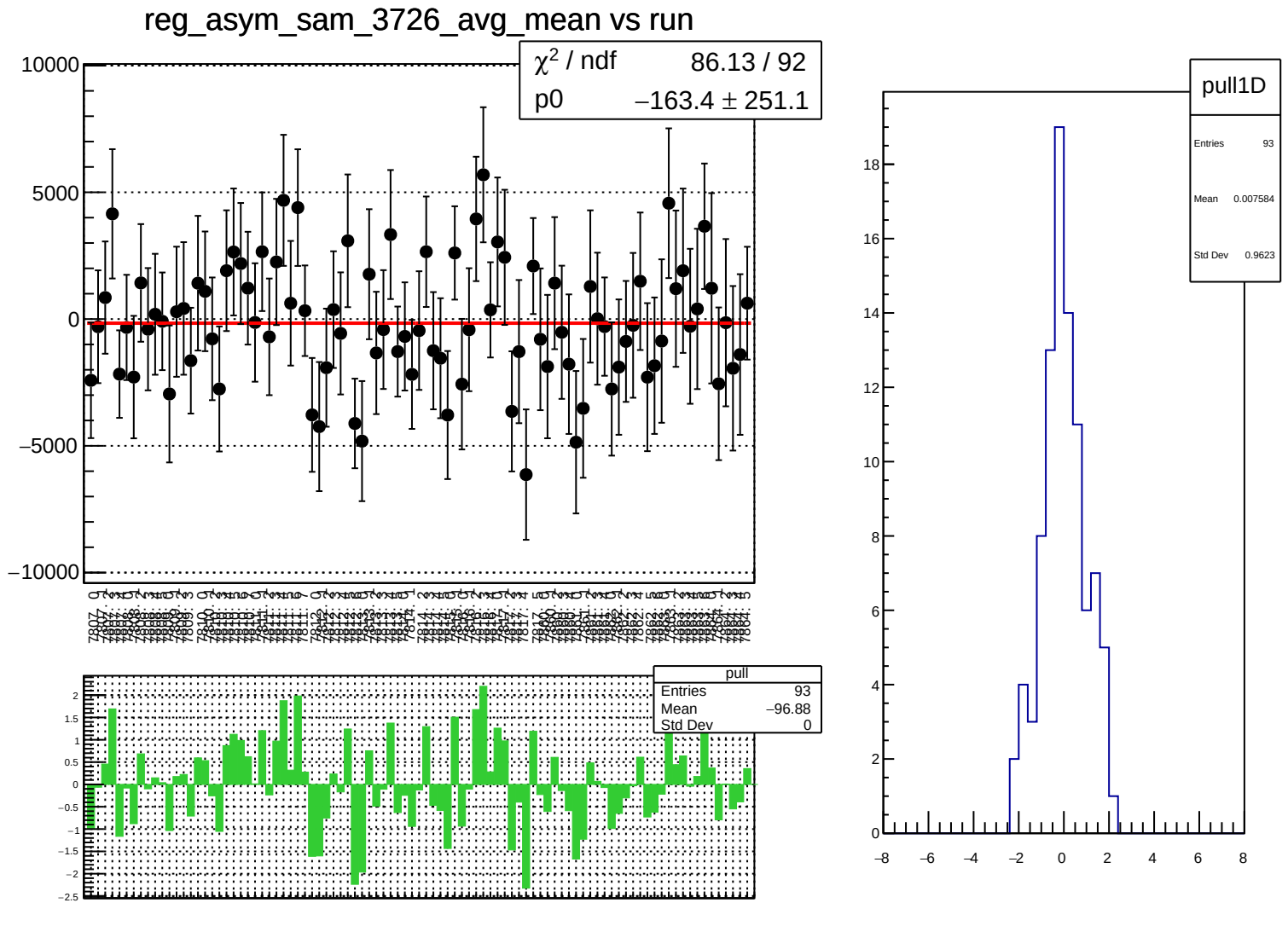

pull1D
Entries 93
Mean −0.02788
Std Dev 0.9183

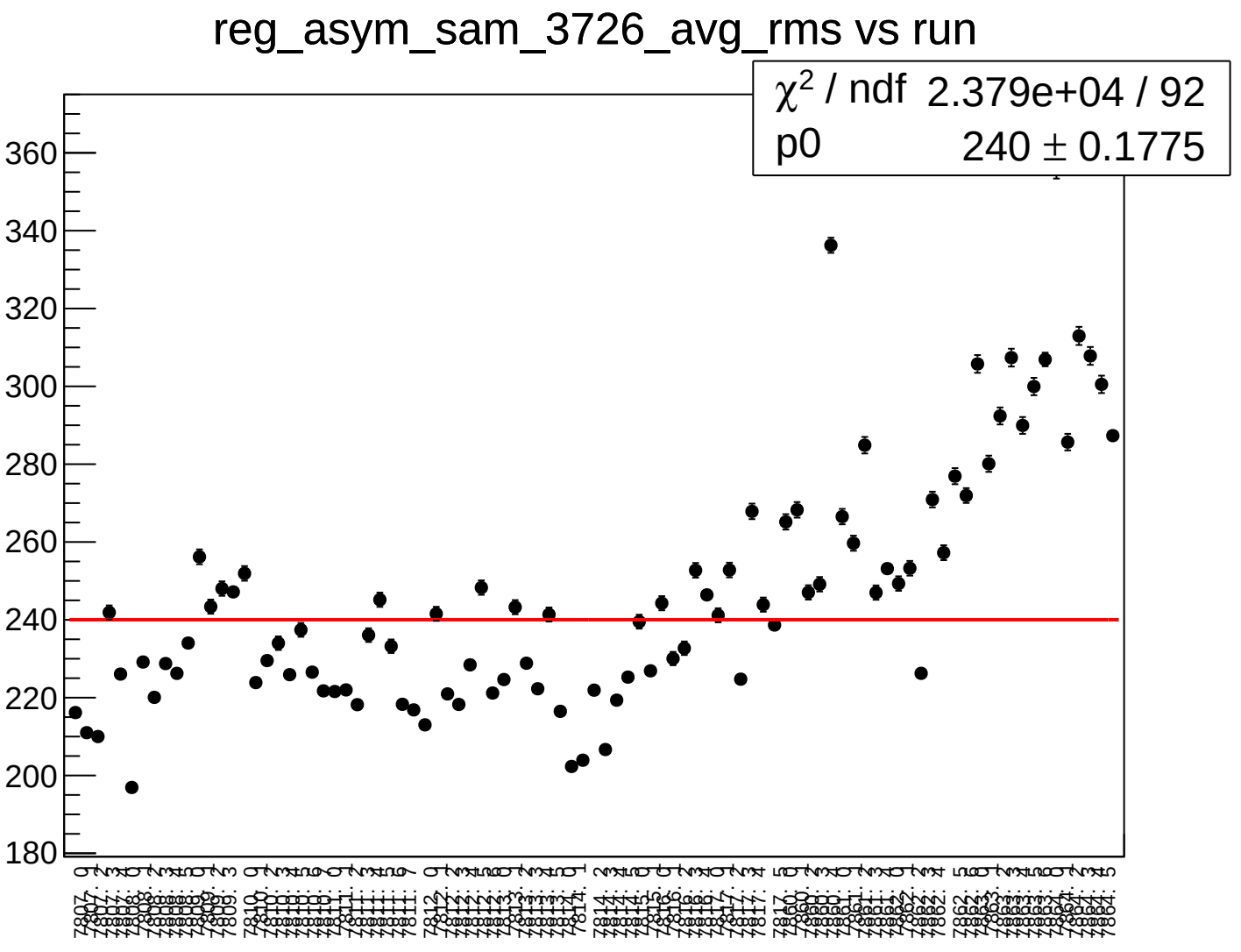

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.586e+05 / 92
p0 27.88 ± 0.02209
120
100
80
60
40
20

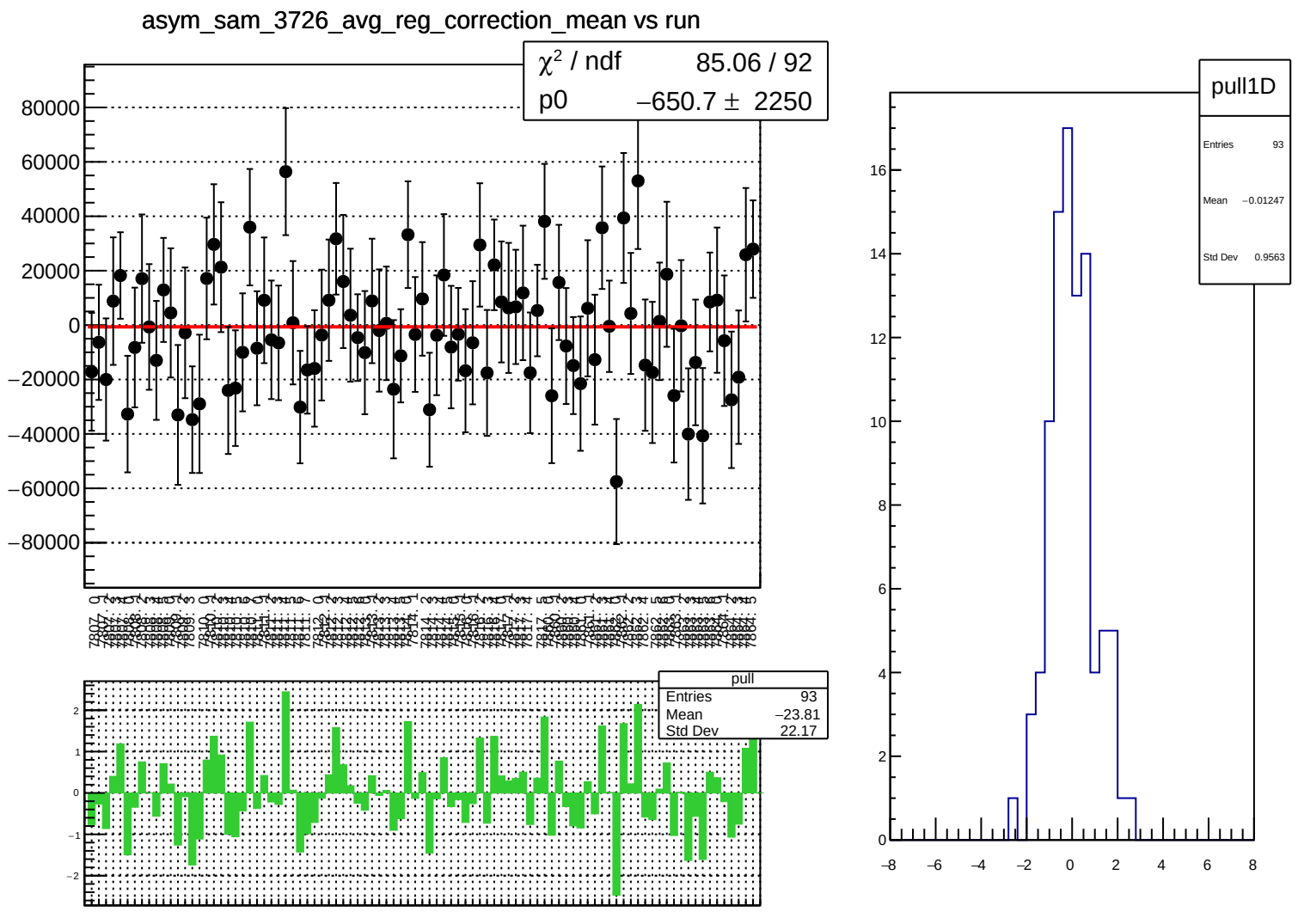

asym_sam_1526_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.45 / 92
p0 −3.736e−13 ± 1.523e−13
pull
Entries 93
Mean 303.1
Std Dev 0

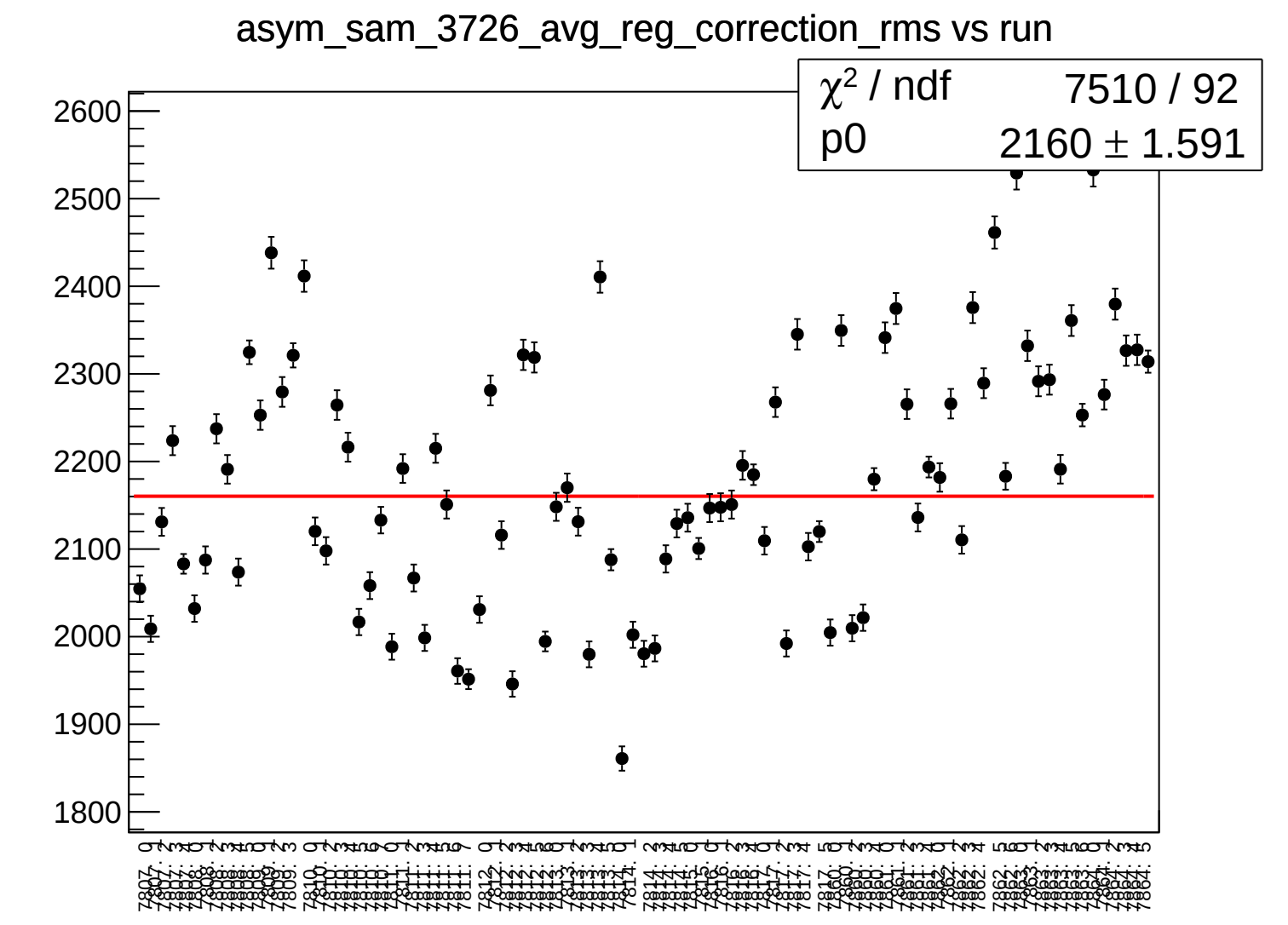

pull1D
Entries 93
Mean −0.01483
Std Dev 0.9641

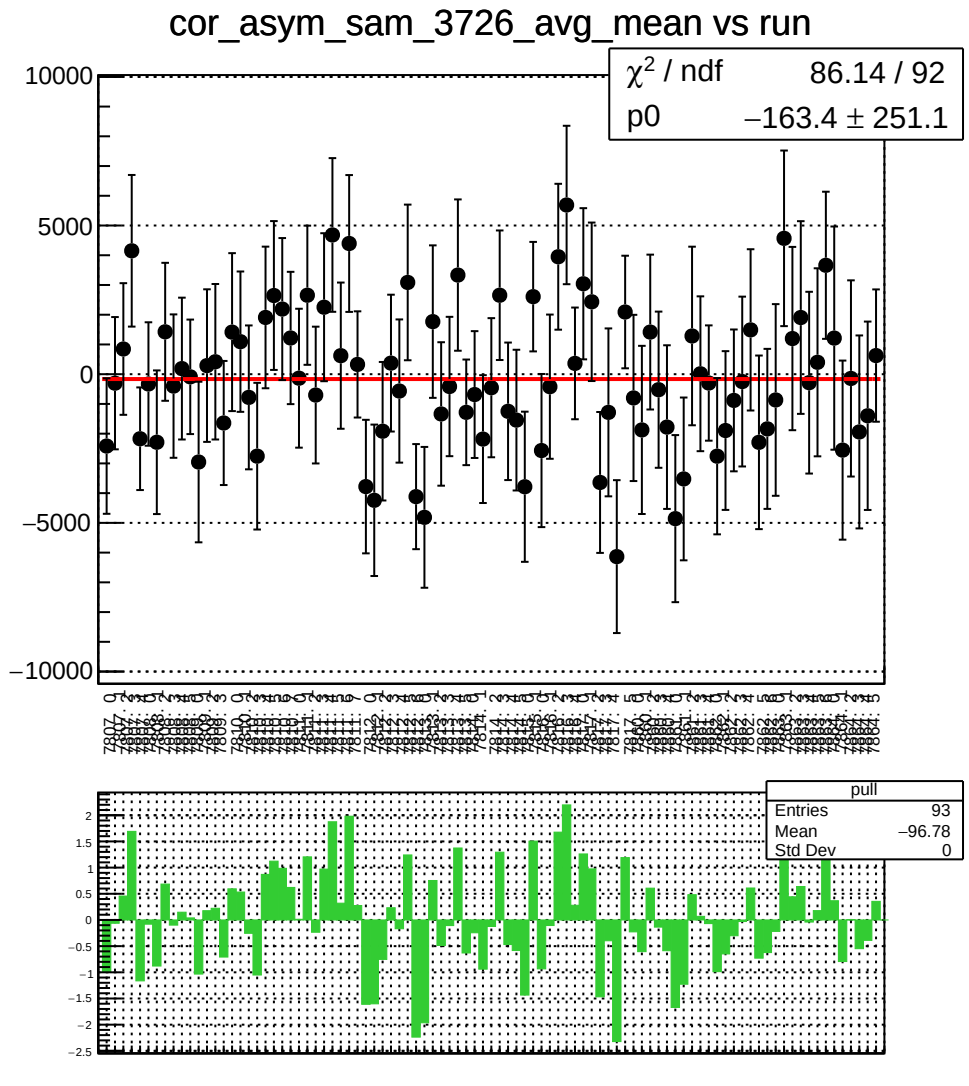

asym_sam_1526_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.461e+05 / 92
p0 1.182e−10 ± 1.077e−13
0.6
0.5
0.4
0.3
0.2
0.1

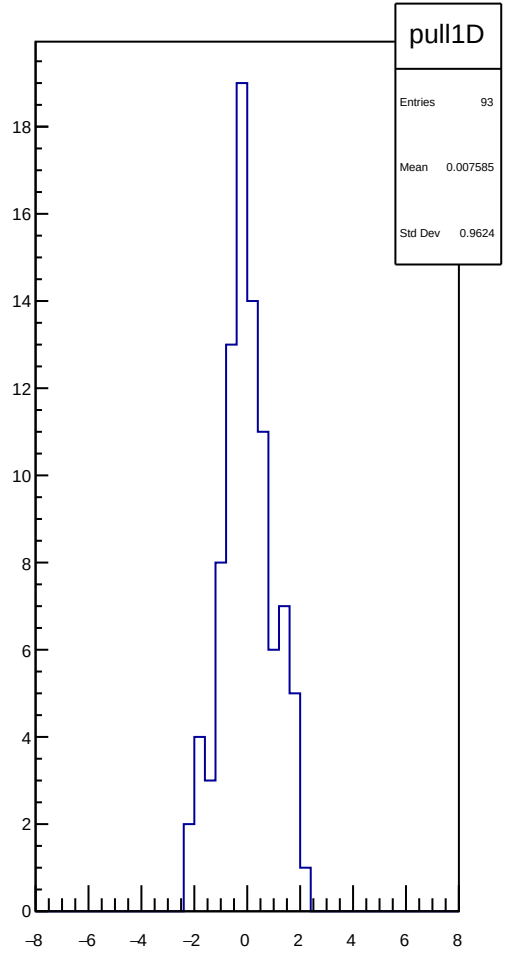

reg_asym_sam_3726_avg_mean vs run
χ² / ndf 86.13 / 92
p0 −163.4 ± 251.1
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −96.88
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 93
Mean 0.007584
Std Dev 0.9623
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

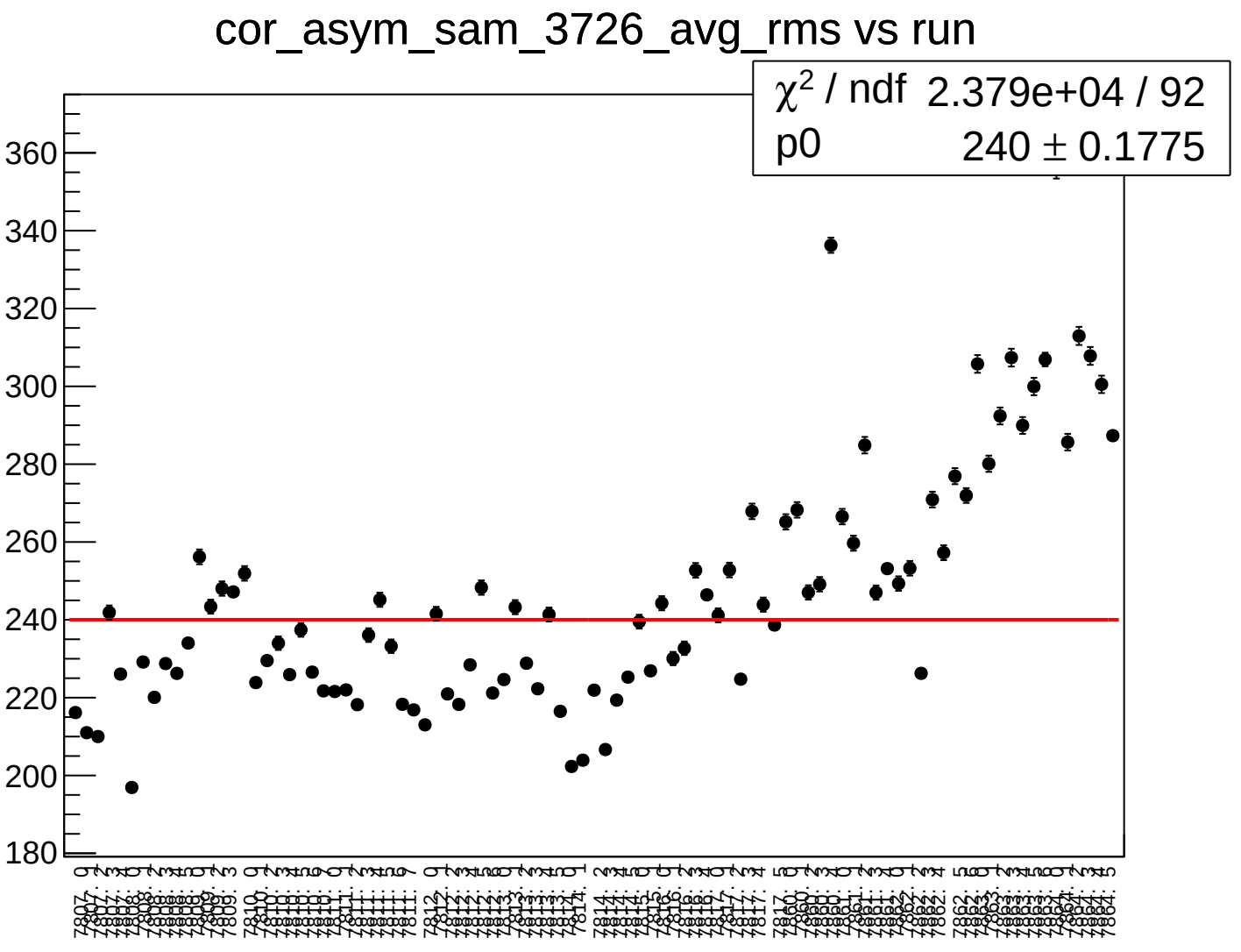

reg_asym_sam_3726_avg_rms vs run
χ² / ndf 2.379e+04 / 92
p0 240 ± 0.1775
360
340
320
300
280
260
240
220
200
180

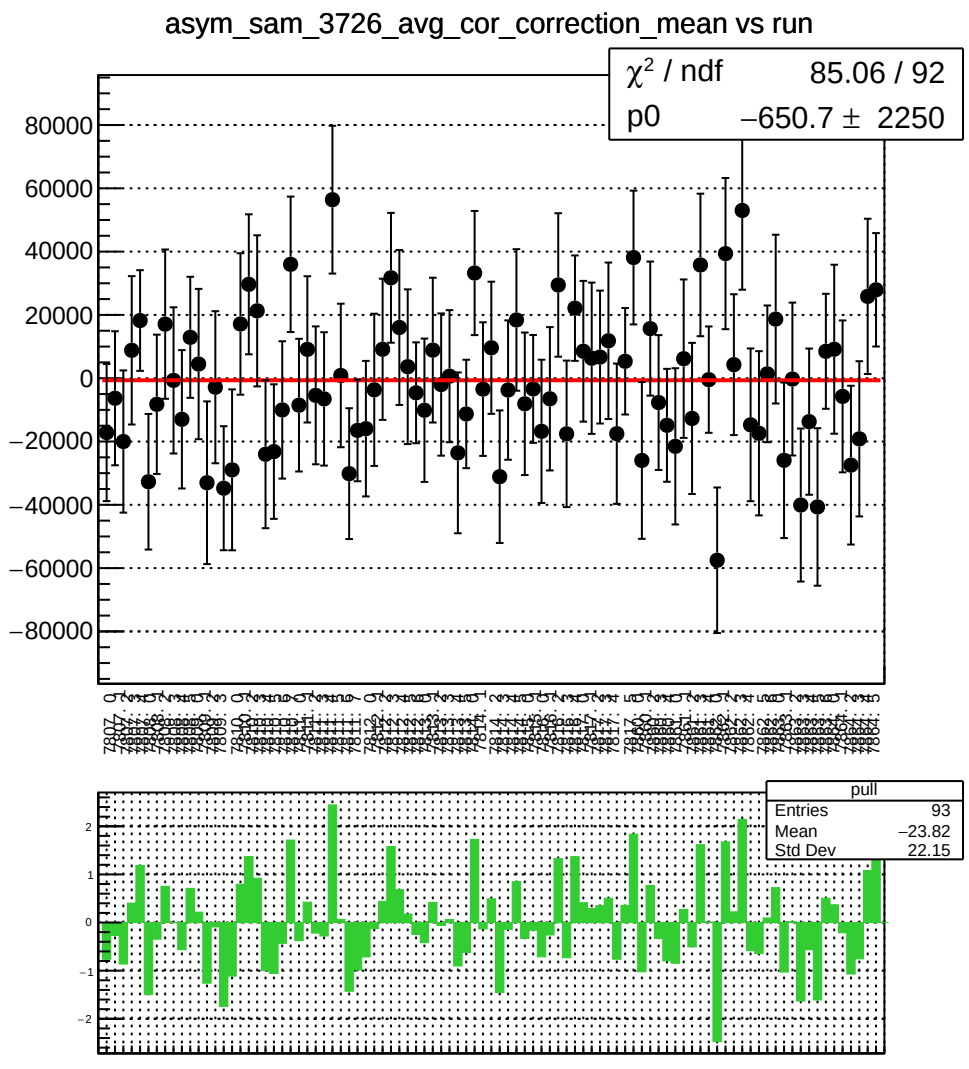

asym_sam_3726_avg_reg_correction_mean vs run
χ² / ndf 85.06 / 92
p0 −650.7 ± 2250
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean −23.81
Std Dev 22.17
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.01247
Std Dev 0.9563
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

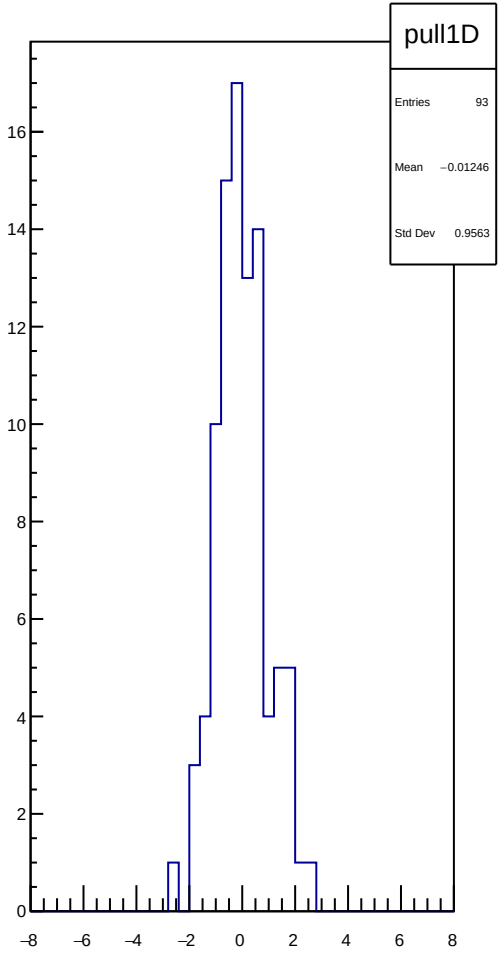

asym_sam_3726_avg_reg_correction_rms vs run
χ² / ndf 7510 / 92
p0 2160 ± 1.591
2600
2500
2400
2300
2200
2100
2000
1900
1800

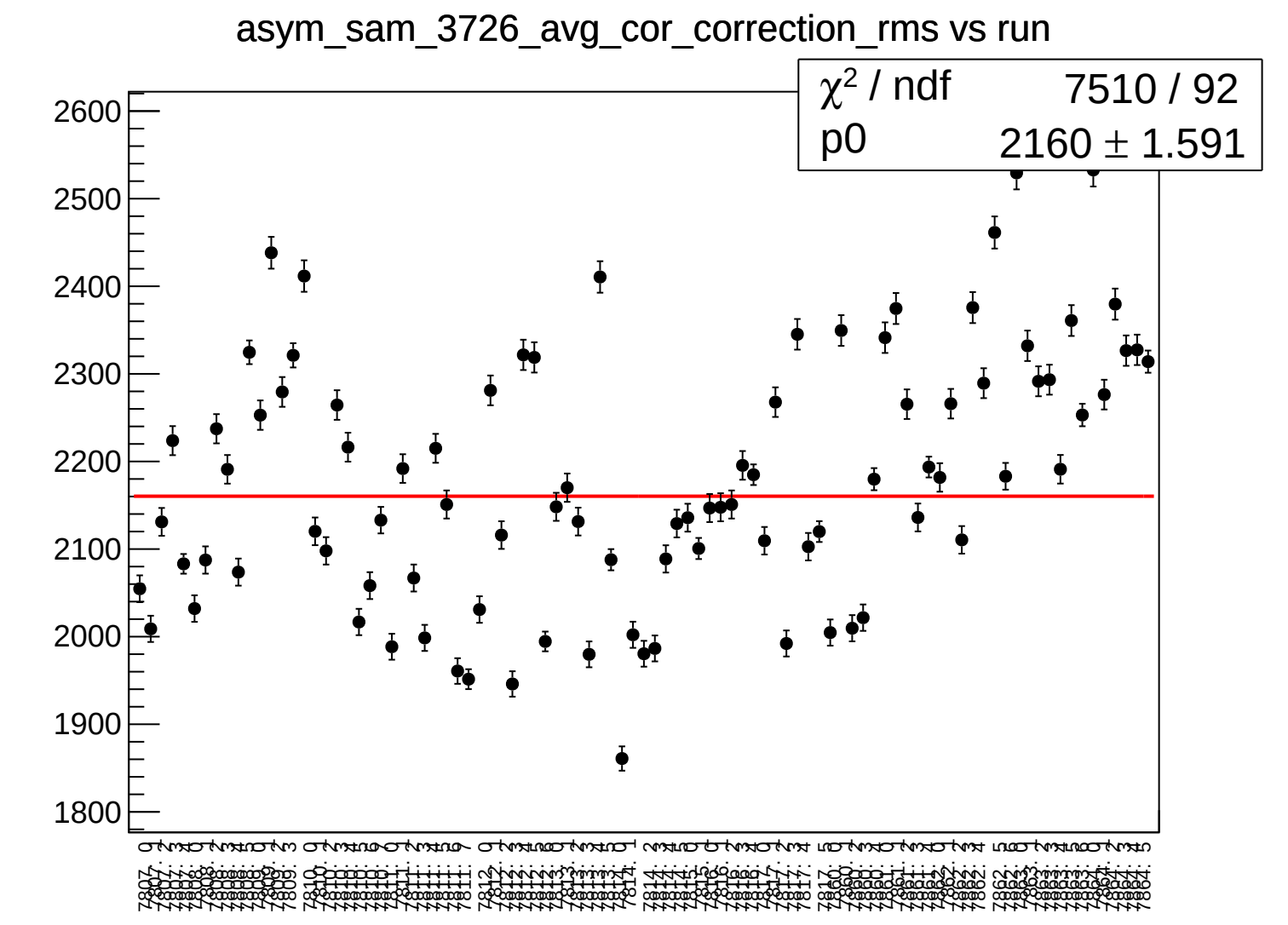

cor_asym_sam_3726_avg_mean vs run
χ² / ndf 86.14 / 92
p0 −163.4 ± 251.1
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −96.78
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

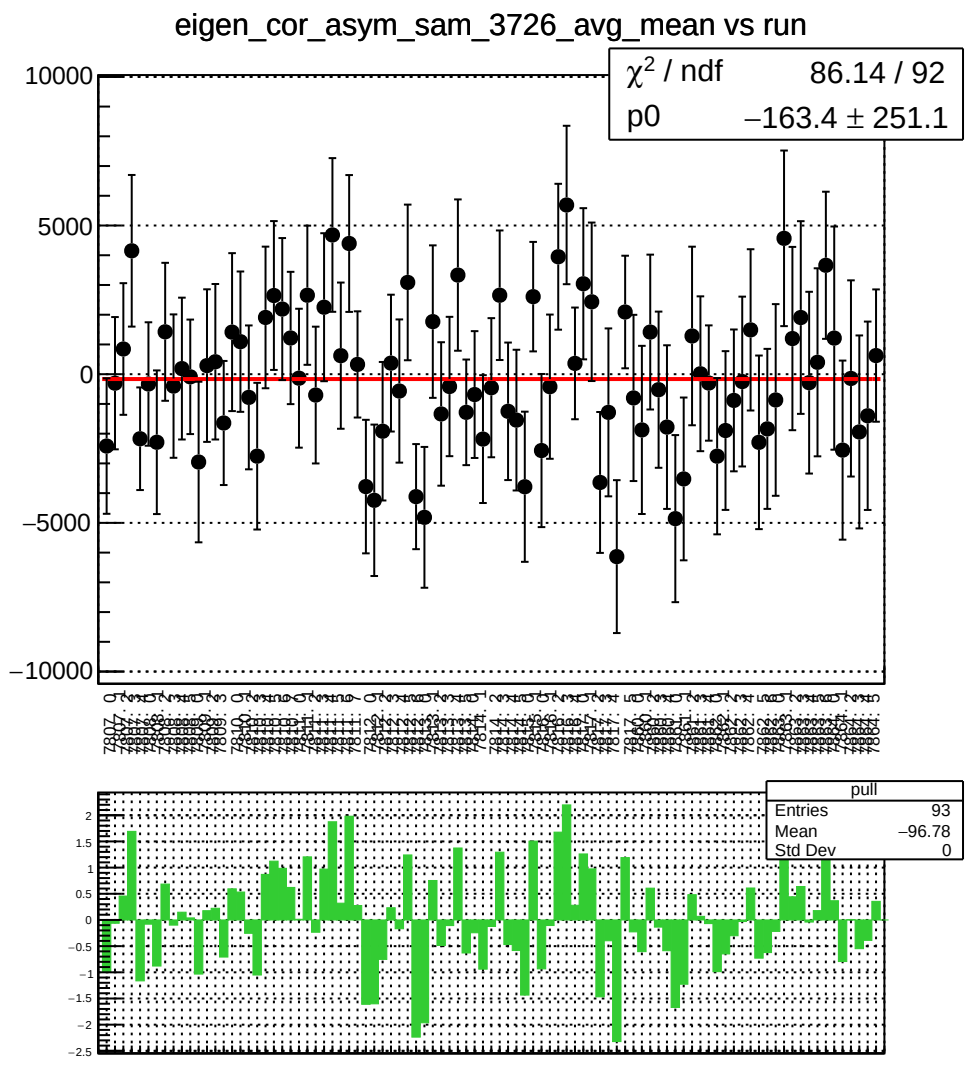

pull1D
Entries 93
Mean 0.007585
Std Dev 0.9624
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

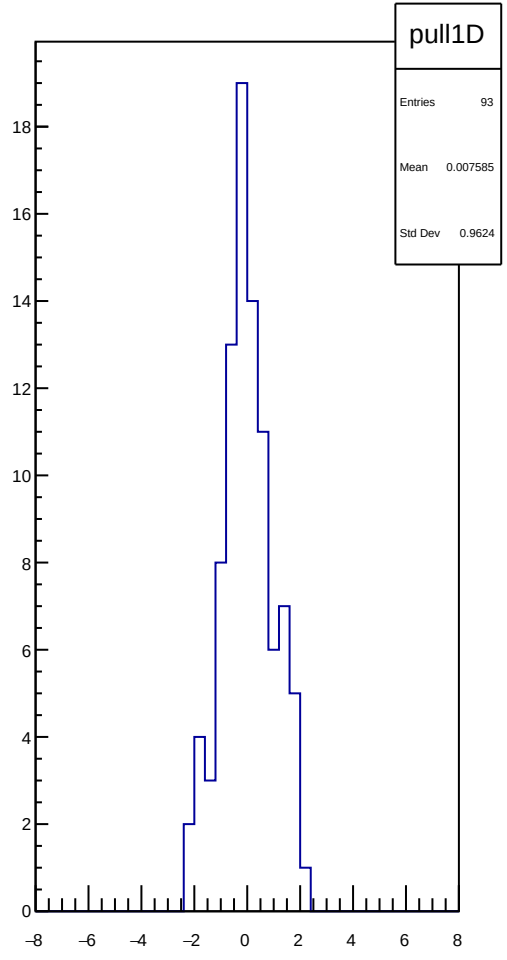

cor_asym_sam_3726_avg_rms vs run
χ^2 / ndf 2.379e+04 / 92
p0 240 ± 0.1775
360
340
320
300
280
260
240
220
200
180

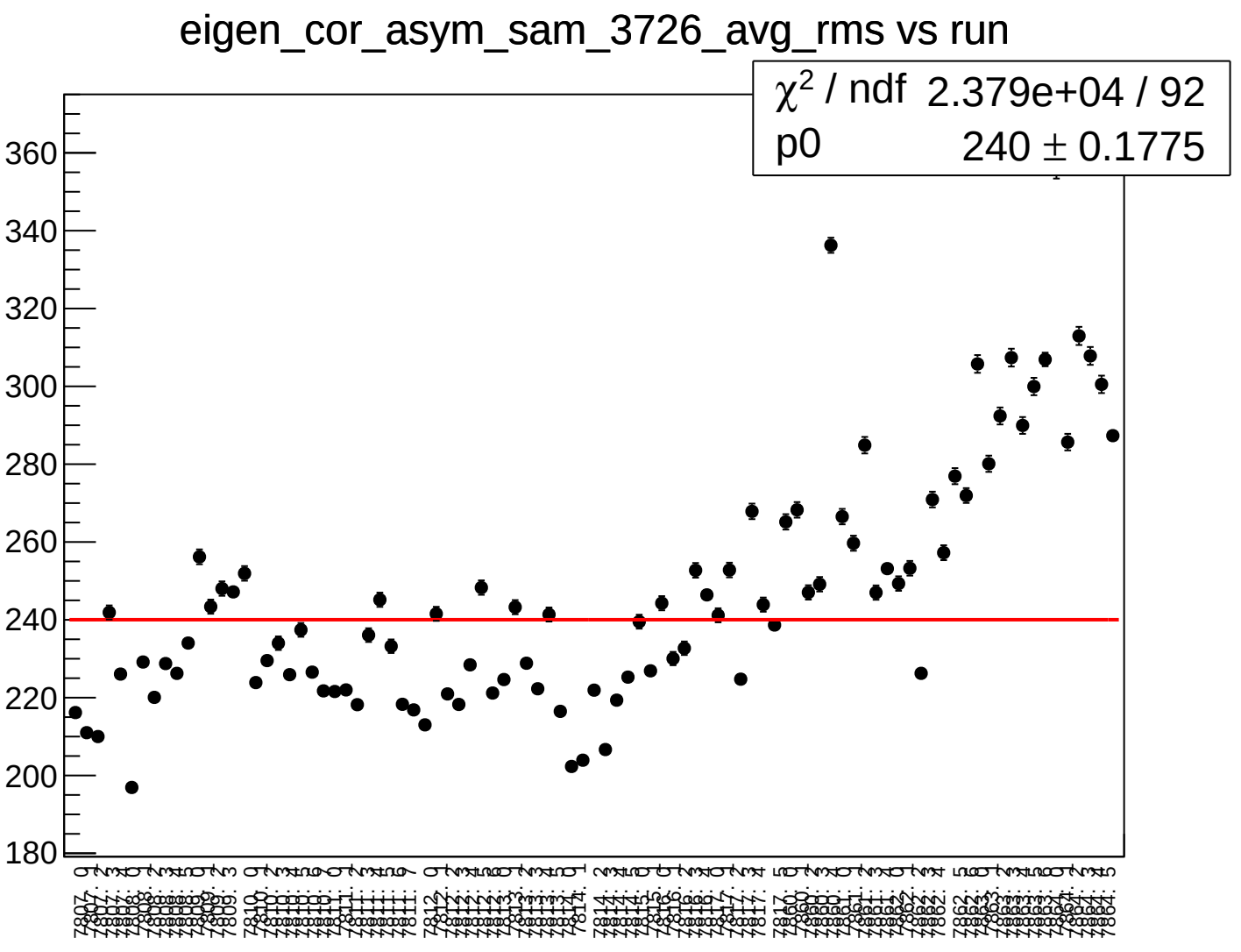

asym_sam_3726_avg_cor_correction_mean vs run
χ² / ndf 85.06 / 92
p0 −650.7 ± 2250
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean −23.82
Std Dev 22.15
2
1
0
−1
−2

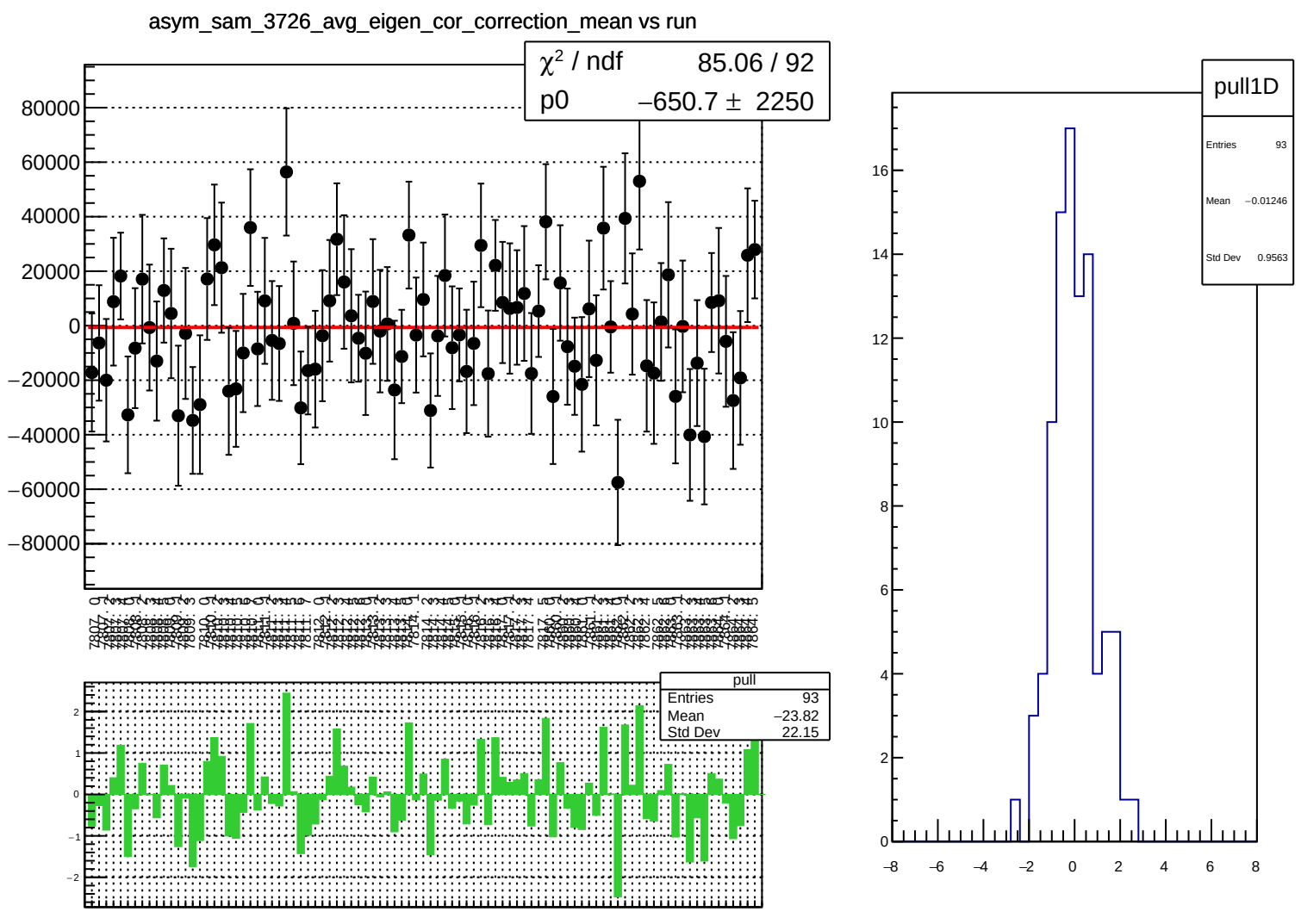

pull1D
Entries 93
Mean −0.01246
Std Dev 0.9563
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

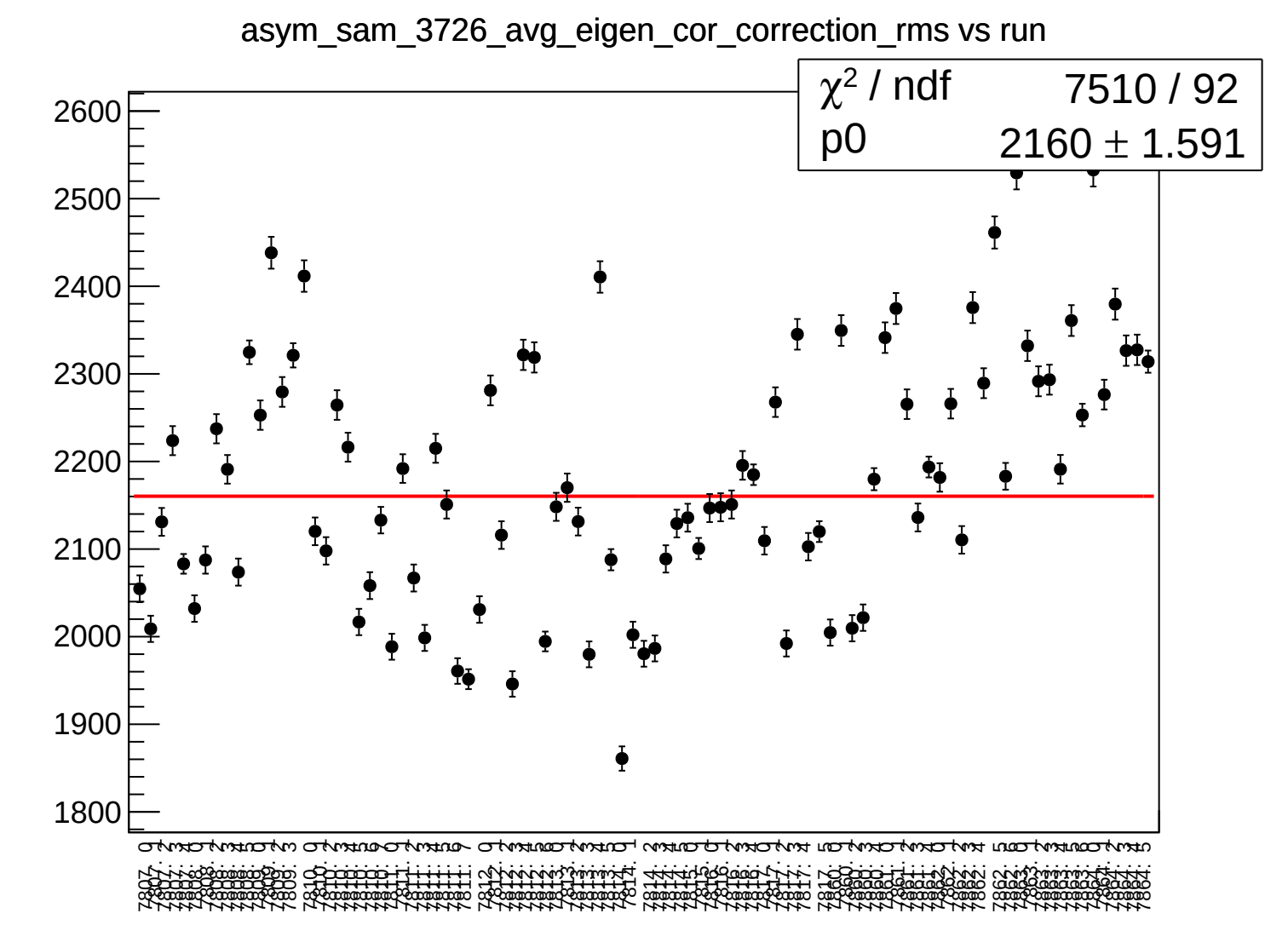

asym_sam_3726_avg_cor_correction_rms vs run
χ² / ndf 7510 / 92
p0 2160 ± 1.591
2600
2500
2400
2300
2200
2100
2000
1900
1800

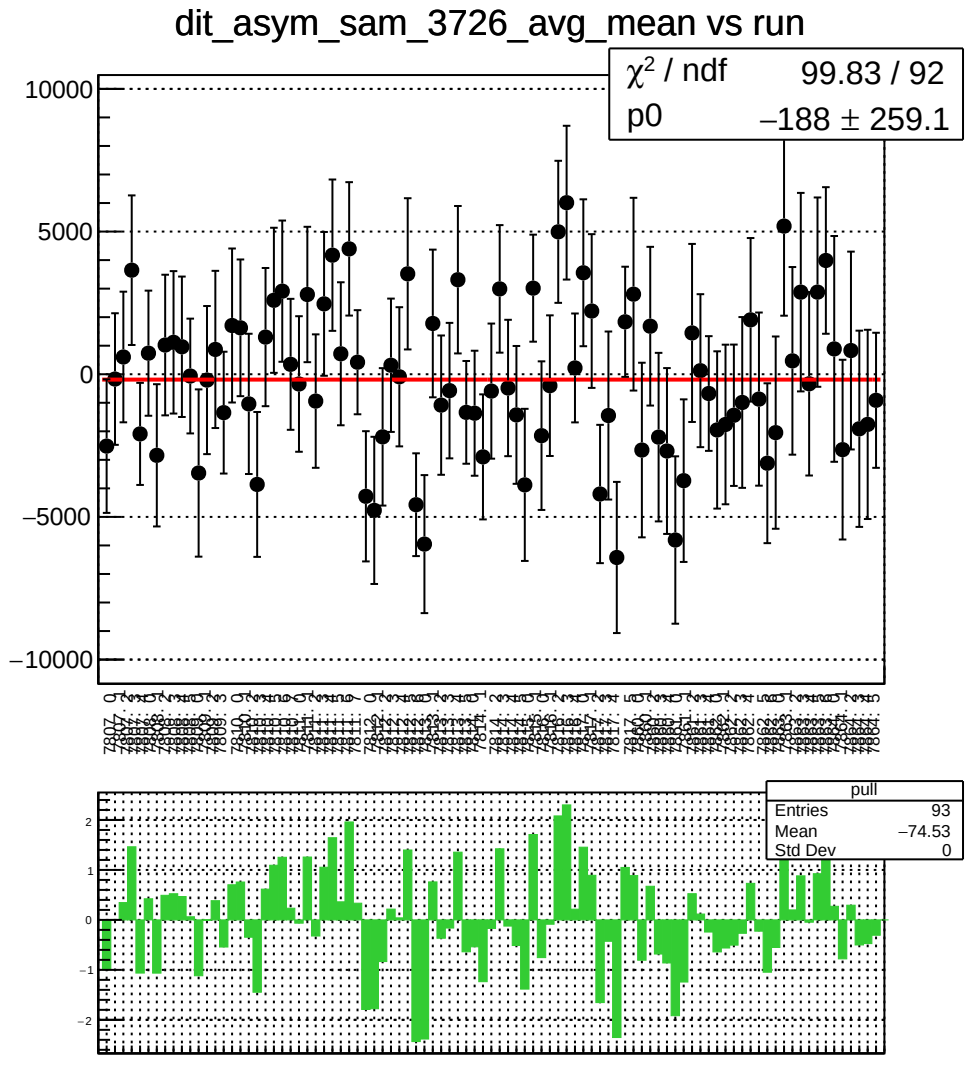

eigen_cor_asym_sam_3726_avg_mean vs run
χ² / ndf 86.14 / 92
p0 −163.4 ± 251.1
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −96.78
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

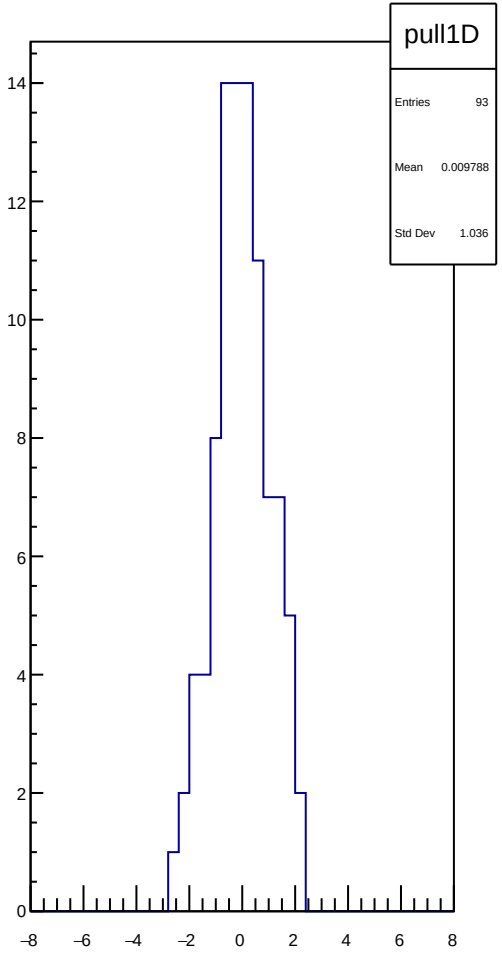

pull1D
Entries 93
Mean 0.007585
Std Dev 0.9624
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

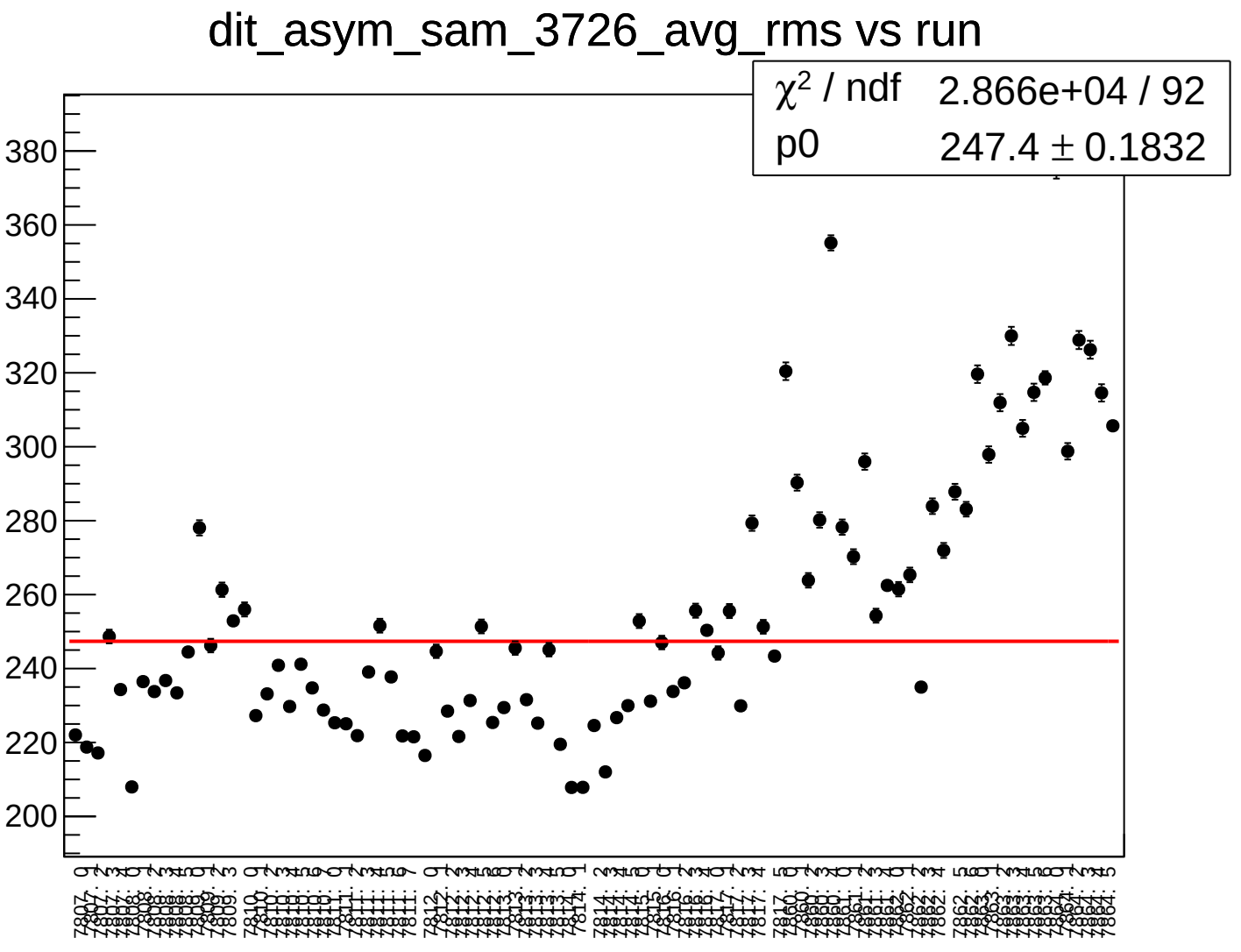

eigen_cor_asym_sam_3726_avg_rms vs run
χ² / ndf 2.379e+04 / 92
p0 240 ± 0.1775
360
340
320
300
280
260
240
220
200
180

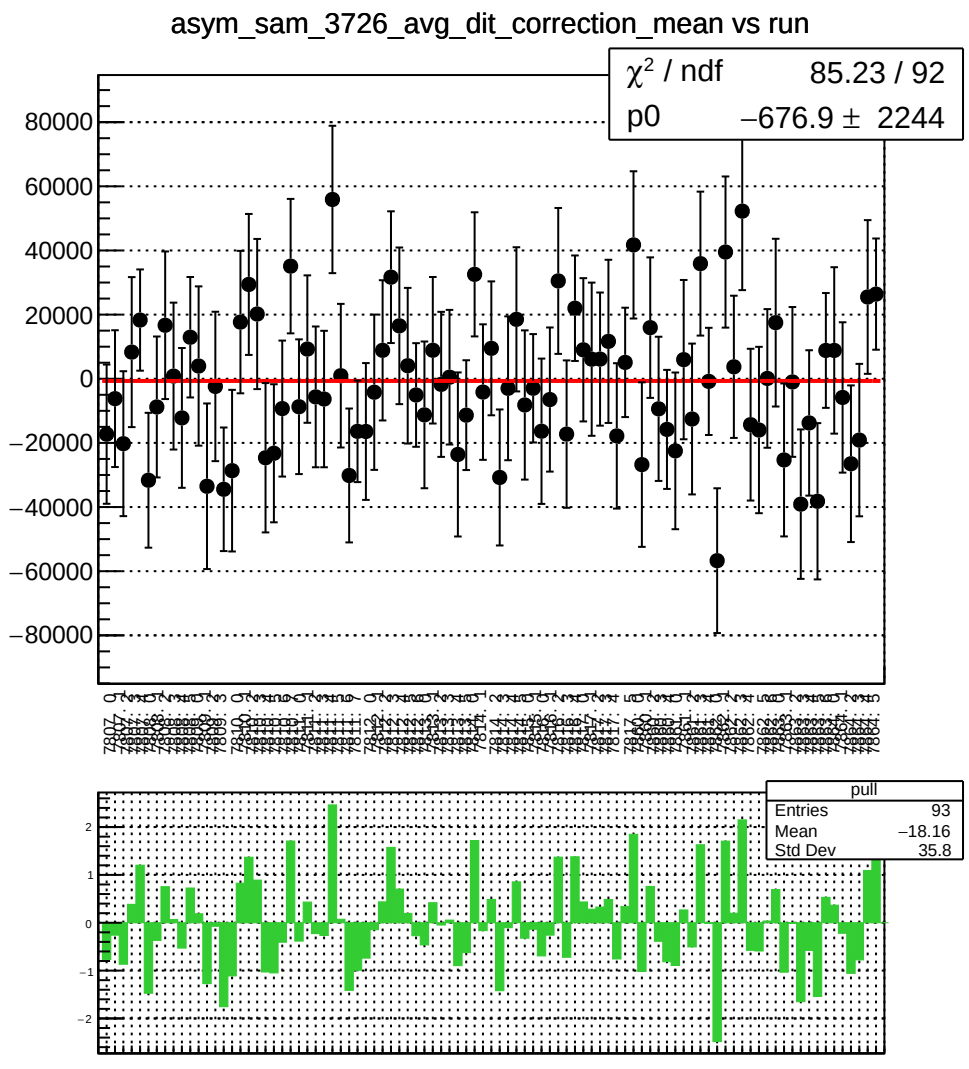

asym_sam_3726_avg_eigen_cor_correction_mean vs run
χ² / ndf 85.06 / 92
p0 −650.7 ± 2250
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean −23.82
Std Dev 22.15
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.01246
Std Dev 0.9563
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

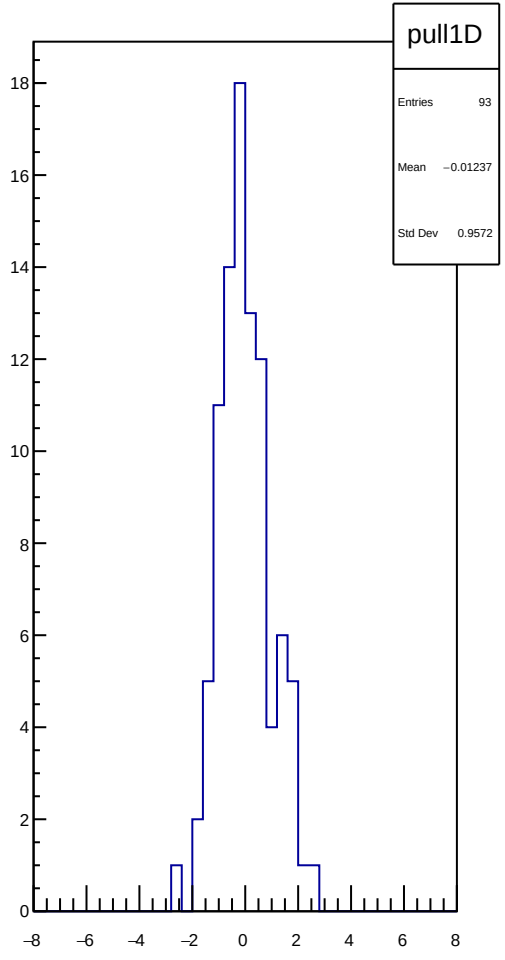

asym_sam_3726_avg_eigen_cor_correction_rms vs run
χ² / ndf 7510 / 92
p0 2160 ± 1.591
2600
2500
2400
2300
2200
2100
2000
1900
1800

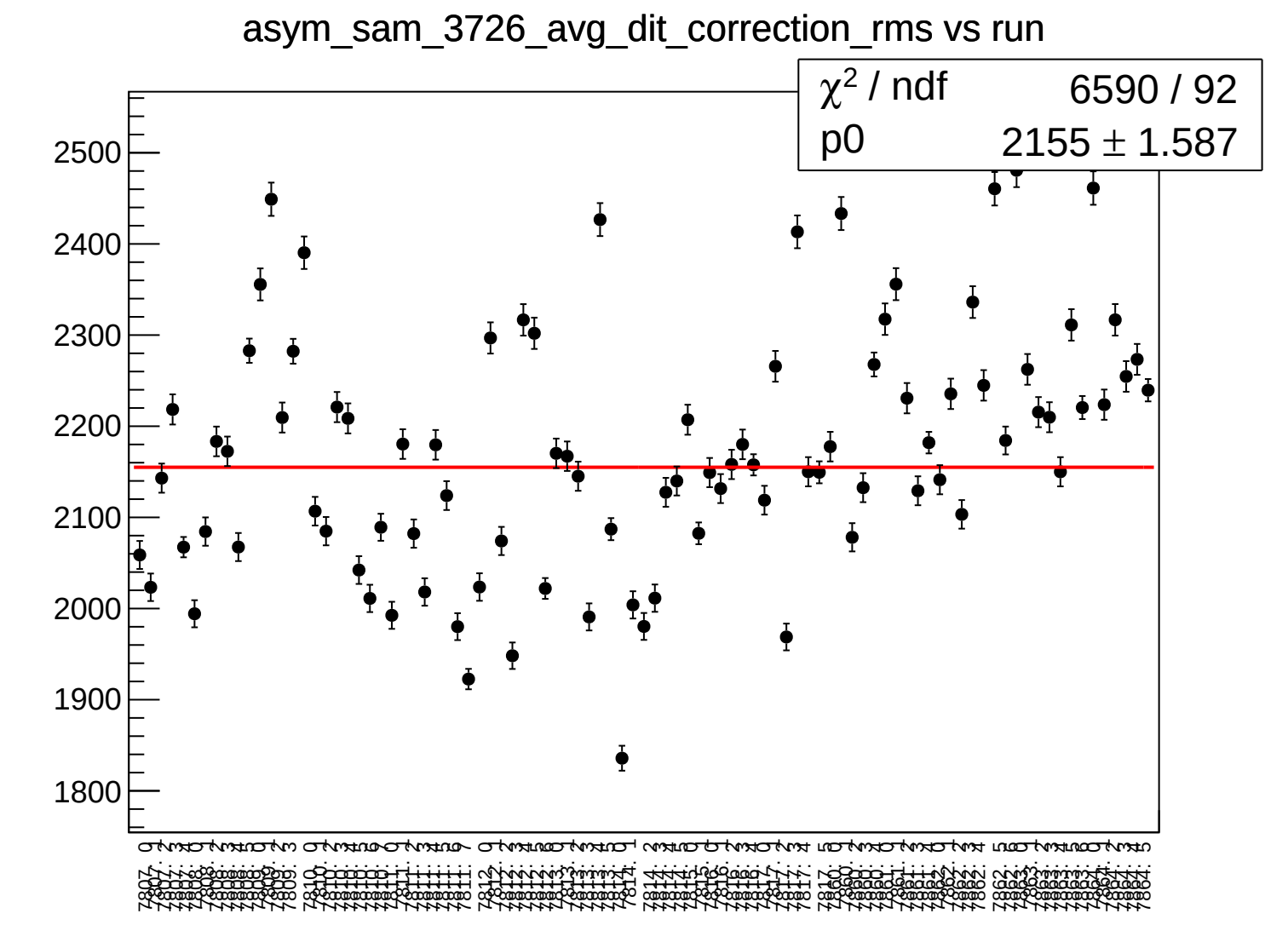

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 99.83 / 92
p0 −188 ± 259.1
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −74.53
Std Dev 0
2
1
0
−1
−2

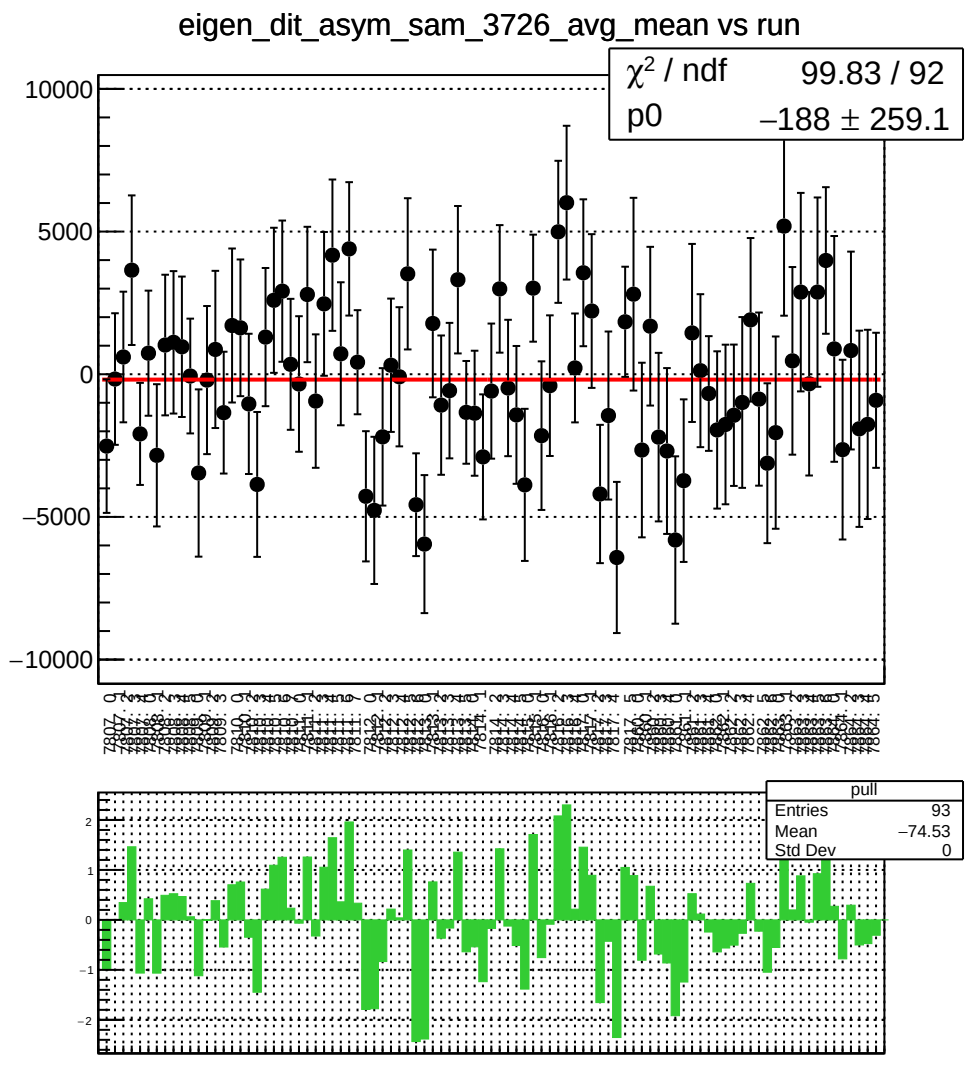

pull1D
Entries 93
Mean 0.009788
Std Dev 1.036
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

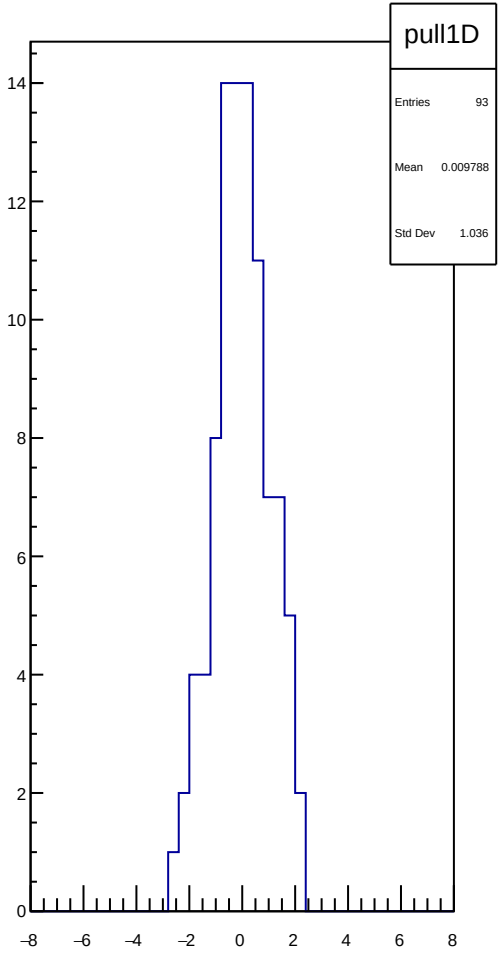

dit_asym_sam_3726_avg_rms vs run
χ² / ndf 2.866e+04 / 92
p0 247.4 ± 0.1832
380
360
340
320
300
280
260
240
220
200

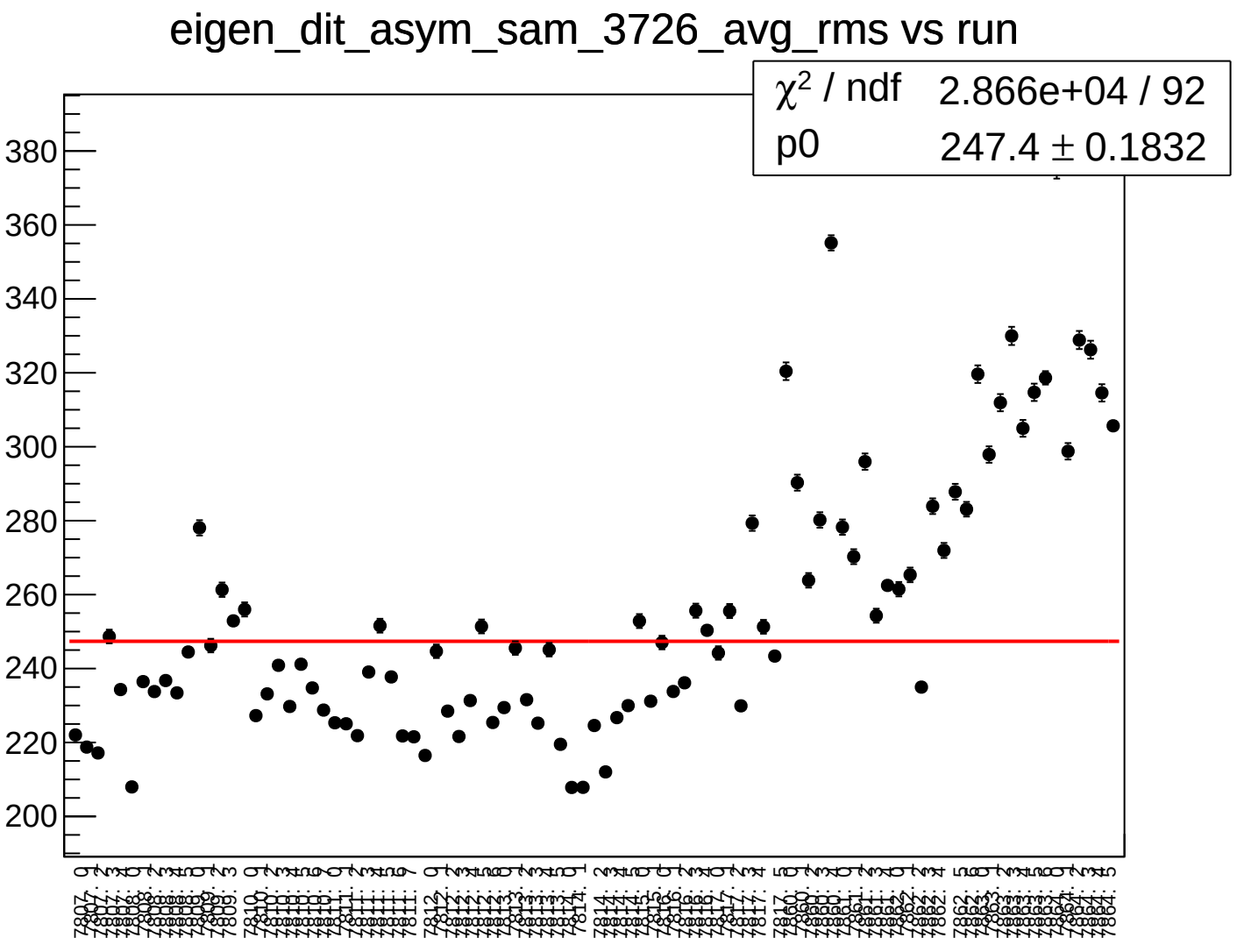

asym_sam_3726_avg_dit_correction_mean vs run
χ² / ndf 85.23 / 92
p0 −676.9 ± 2244
pull
Entries 93
Mean −18.16
Std Dev 35.8

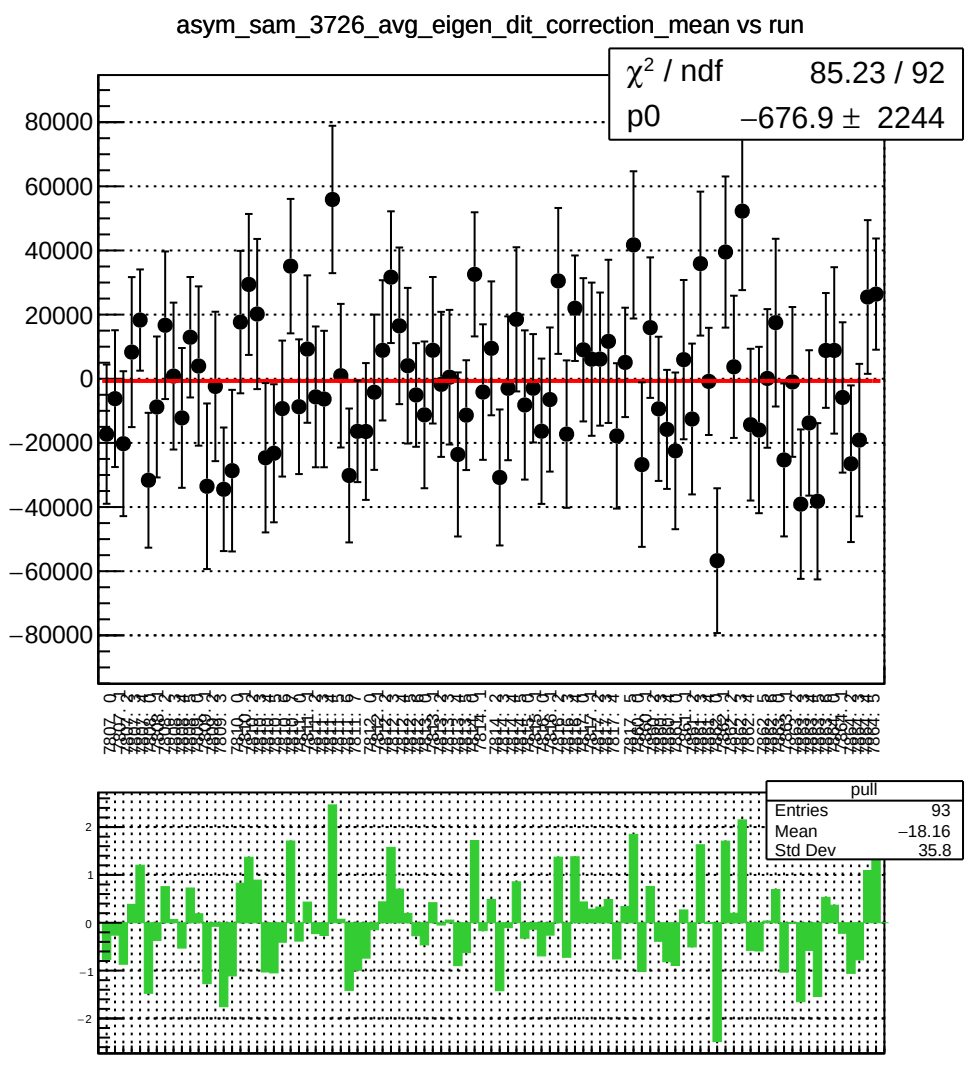

pull1D
Entries 93
Mean −0.01237
Std Dev 0.9572

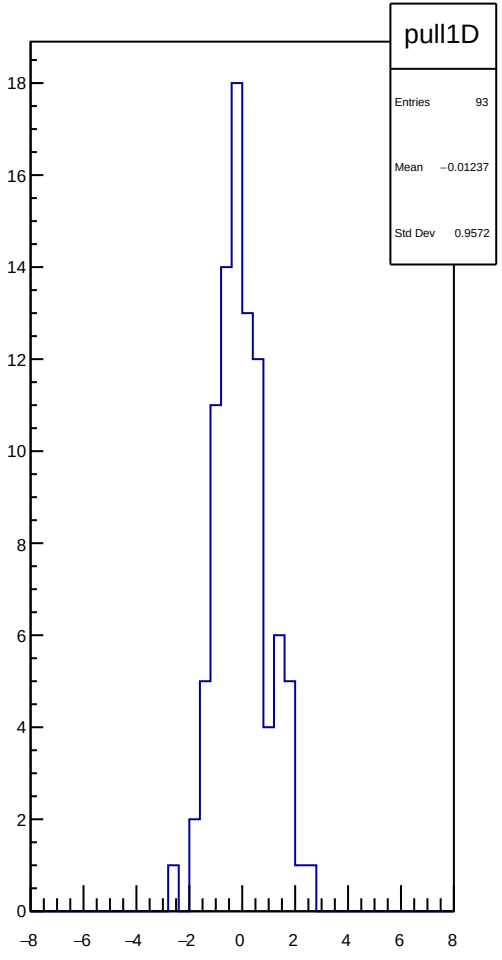

asym_sam_3726_avg_dit_correction_rms vs run
χ^2 / ndf 6590 / 92
p0 2155 ± 1.587
2500
2400
2300
2200
2100
2000
1900
1800

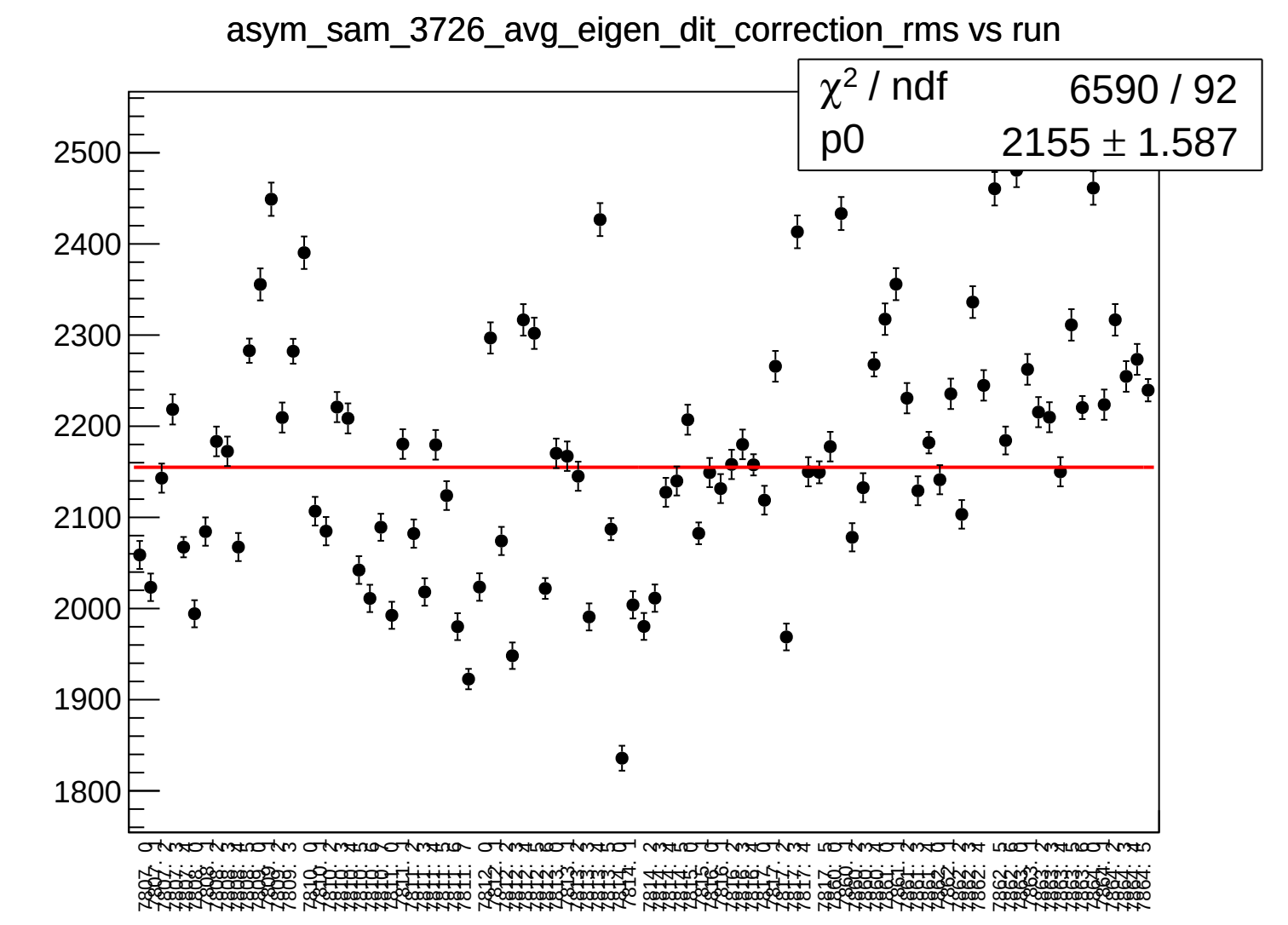

eigen_dit_asym_sam_3726_avg_mean vs run
χ² / ndf 99.83 / 92
p0 −188 ± 259.1
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −74.53
Std Dev 0
2
1
0
−1
−2

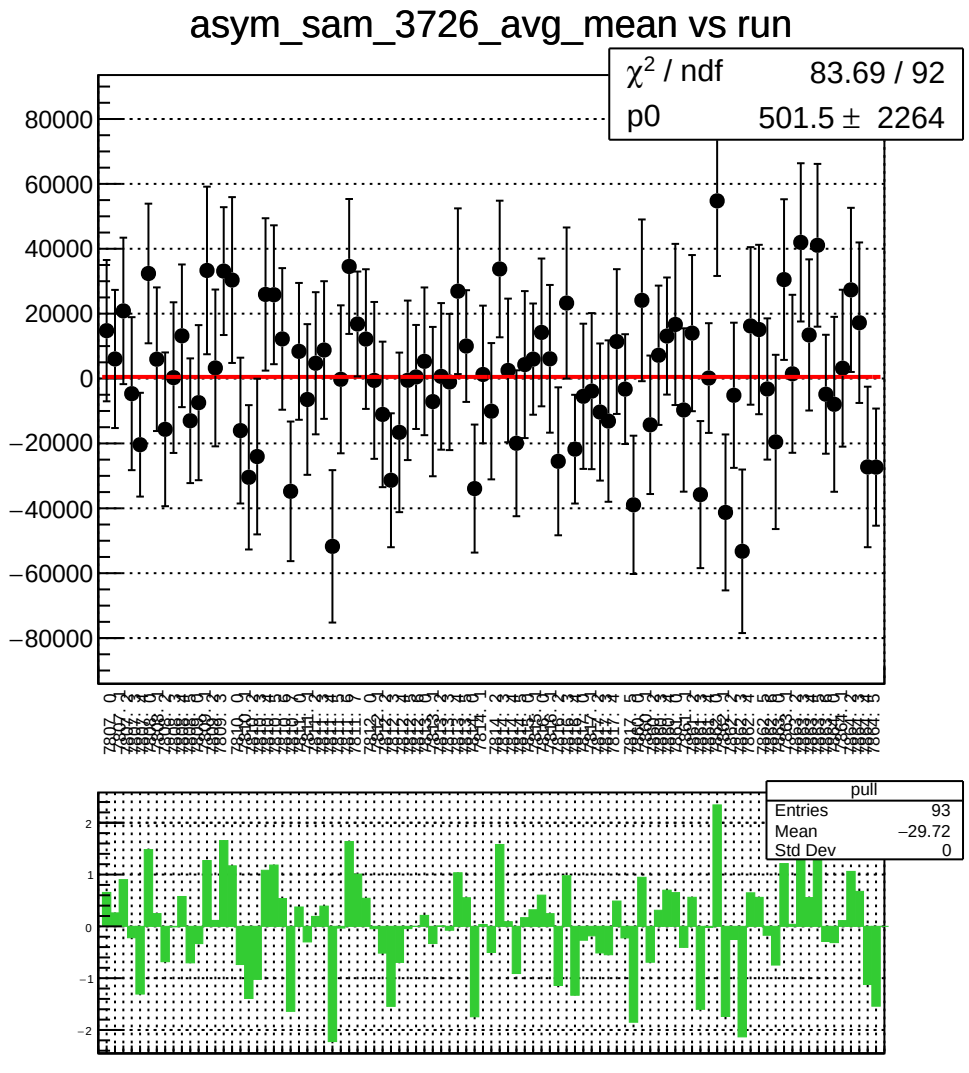

pull1D
Entries 93
Mean 0.009788
Std Dev 1.036
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

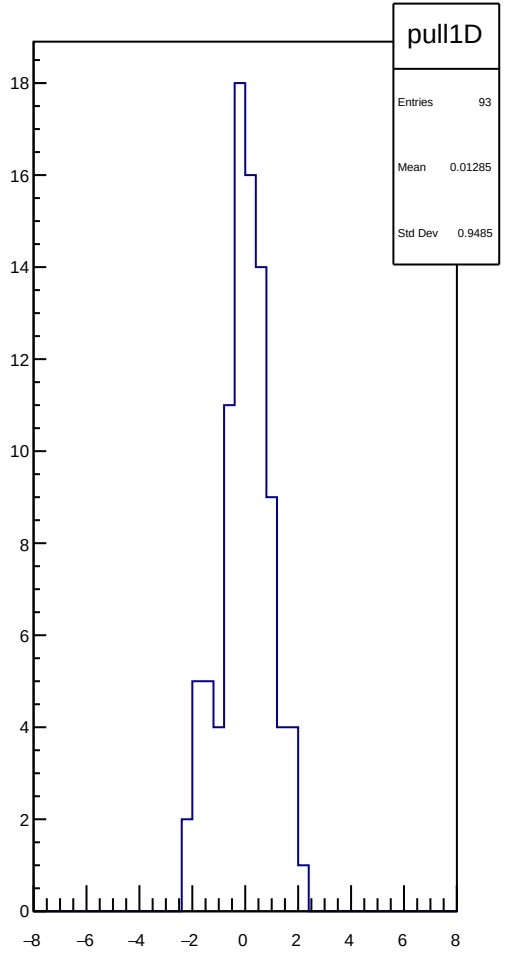

eigen_dit_asym_sam_3726_avg_rms vs run
χ² / ndf 2.866e+04 / 92
p0 247.4 ± 0.1832
380
360
340
320
300
280
260
240
220
200

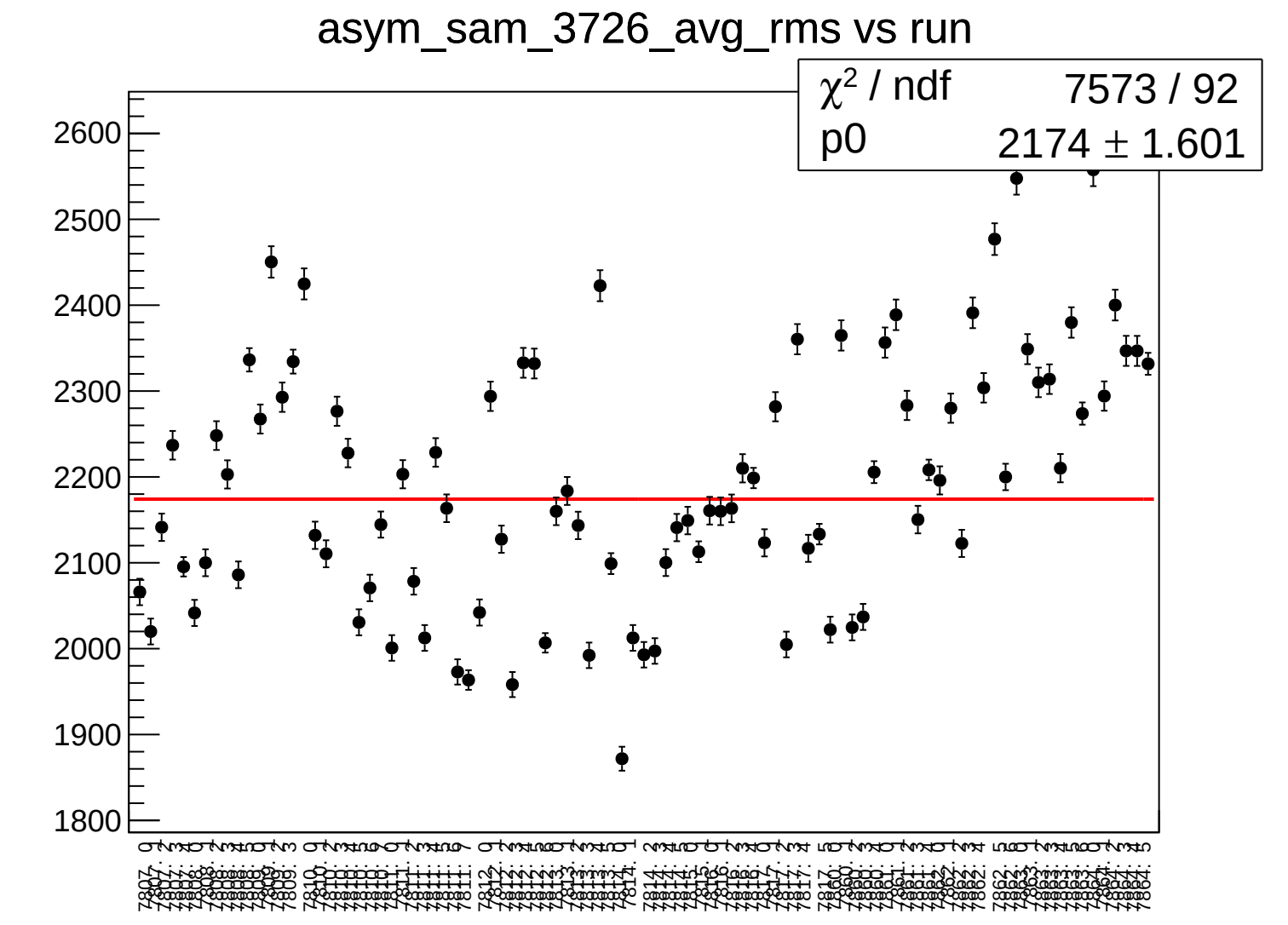

asym_sam_3726_avg_eigen_dit_correction_mean vs run
χ² / ndf 85.23 / 92
p0 −676.9 ± 2244
pull
Entries 93
Mean −18.16
Std Dev 35.8

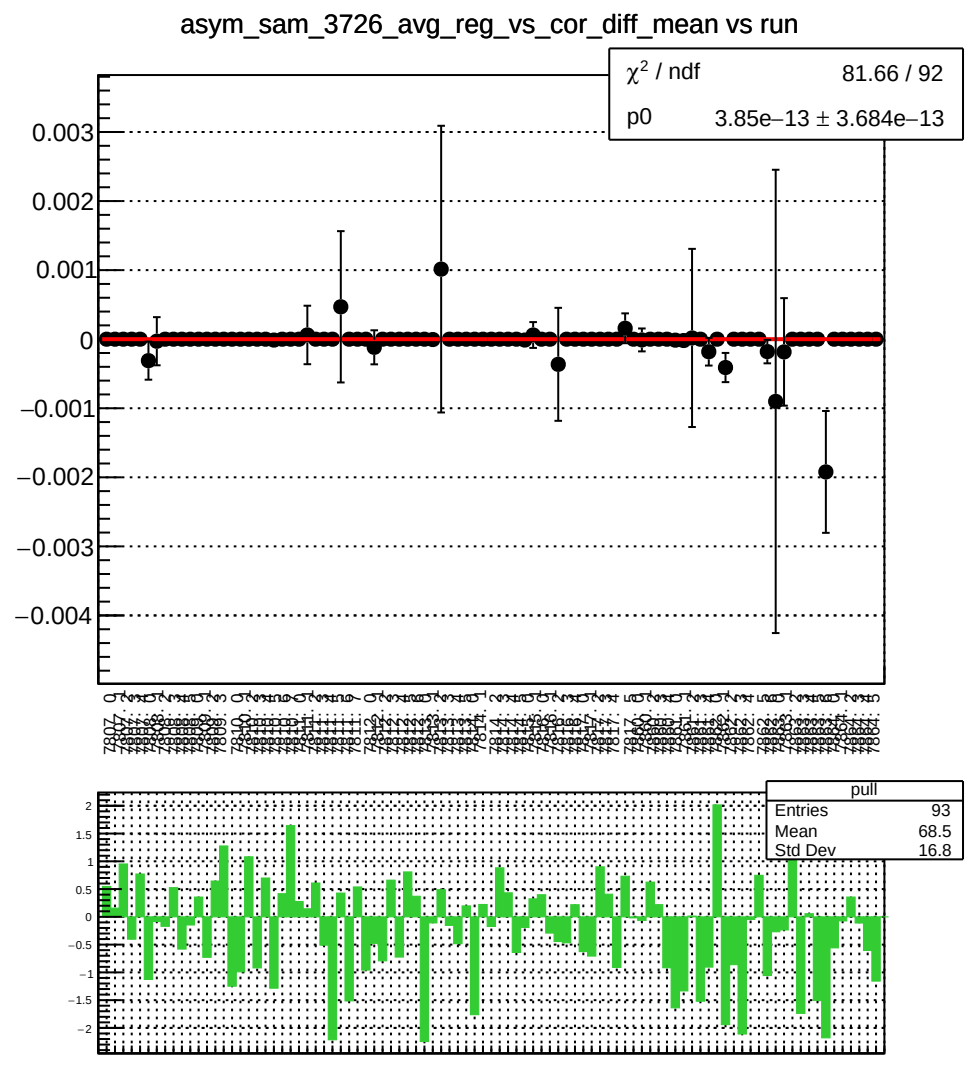

pull1D
Entries 93
Mean −0.01237
Std Dev 0.9572

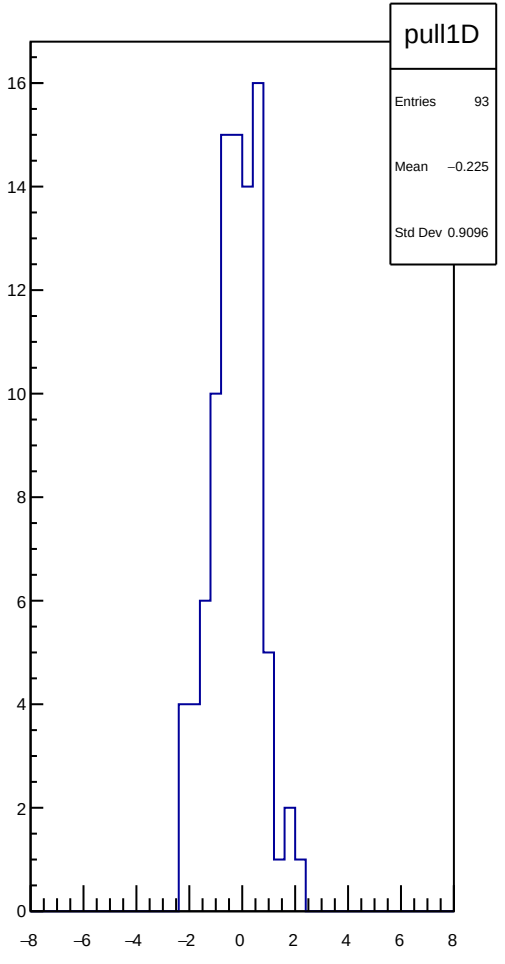

asym_sam_3726_avg_eigen_dit_correction_rms vs run
χ² / ndf 6590 / 92
p0 2155 ± 1.587
2500
2400
2300
2200
2100
2000
1900
1800

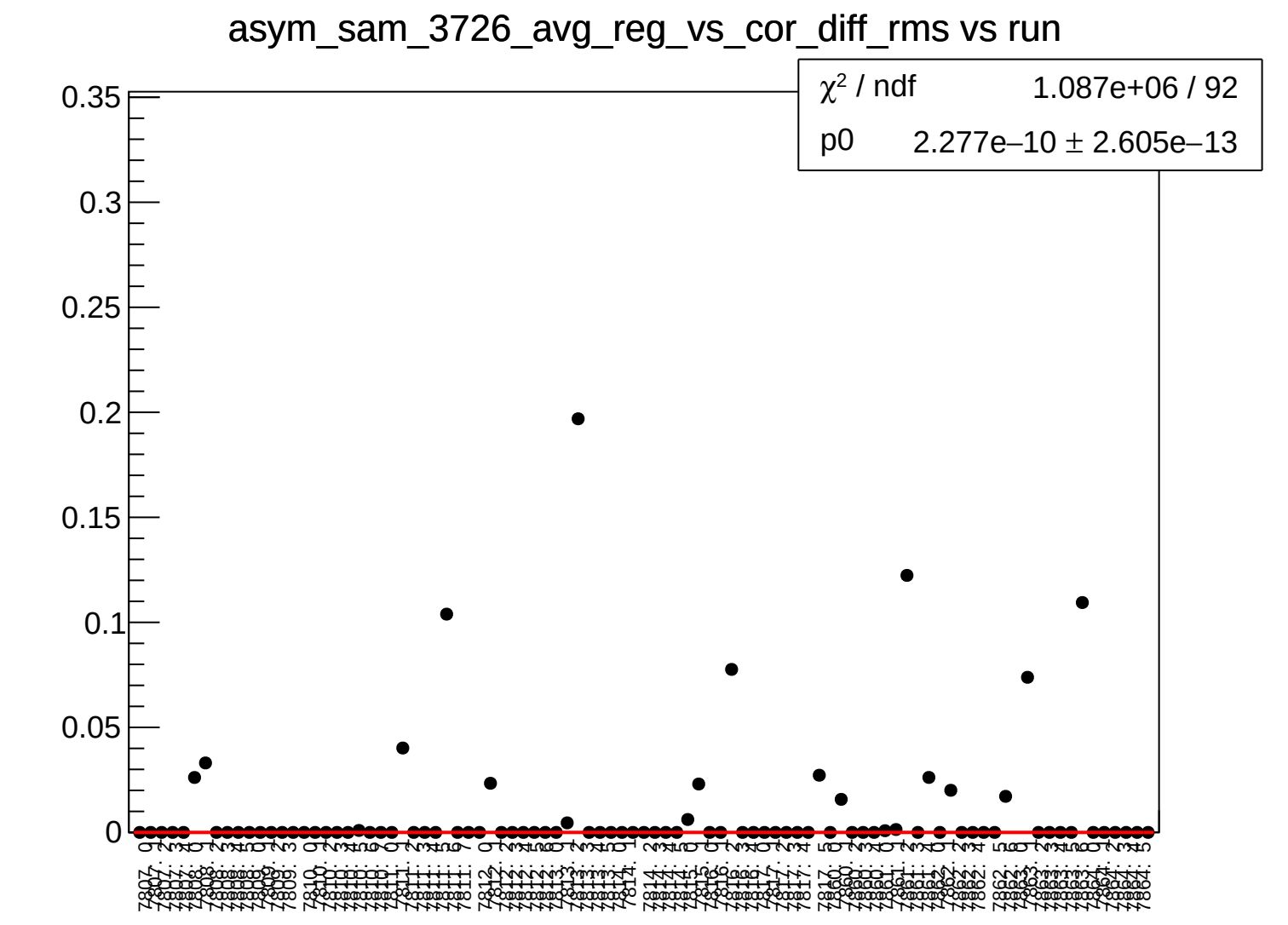

asym_sam_3726_avg_mean vs run
χ² / ndf 83.69 / 92
p0 501.5 ± 2264
pull
Entries 93
Mean −29.72
Std Dev 0

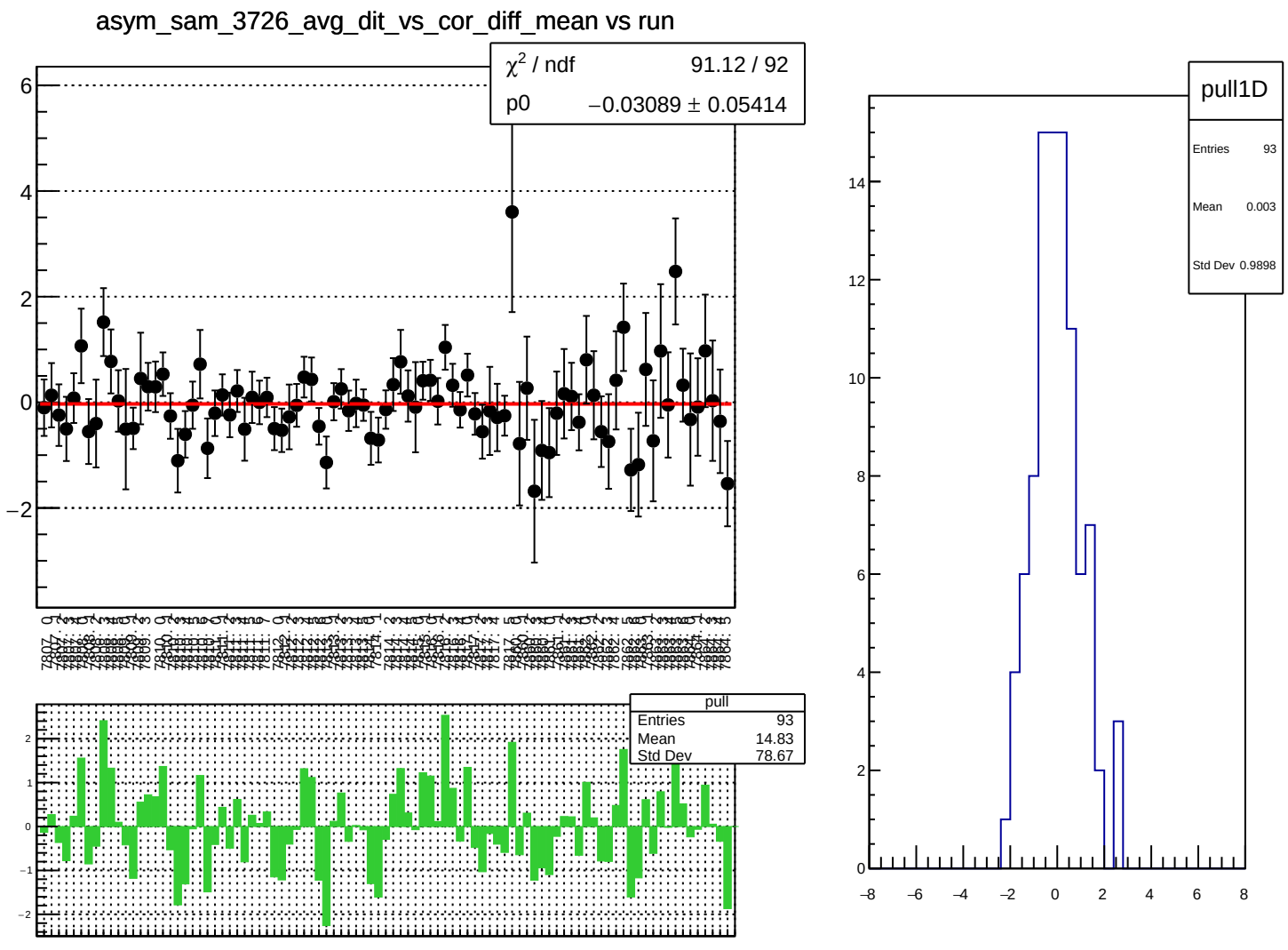

pull1D
Entries 93
Mean 0.01285
Std Dev 0.9485

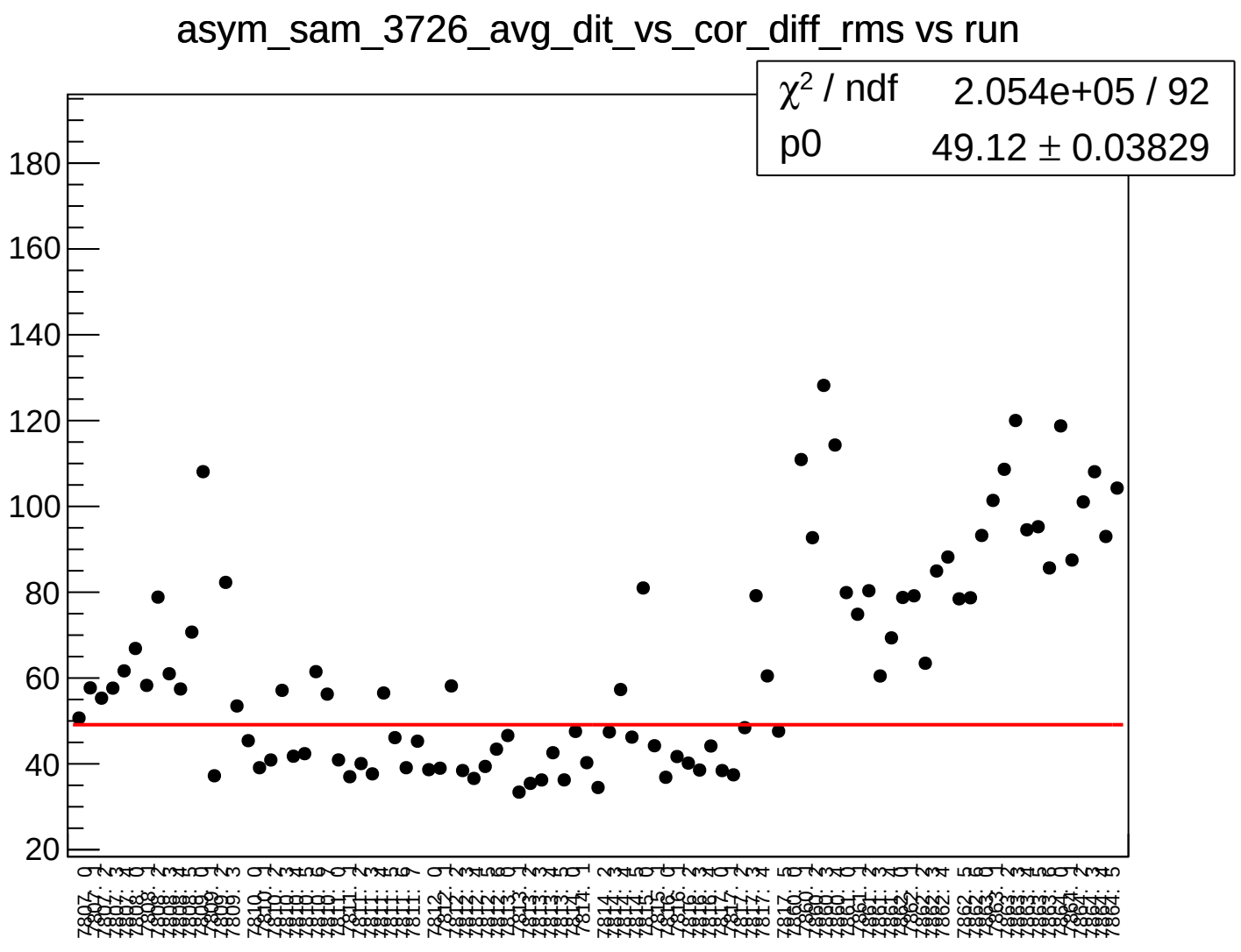

asym_sam_3726_avg_rms vs run
χ^2 / ndf 7573 / 92
p0 2174 ± 1.601
2600
2500
2400
2300
2200
2100
2000
1900
1800

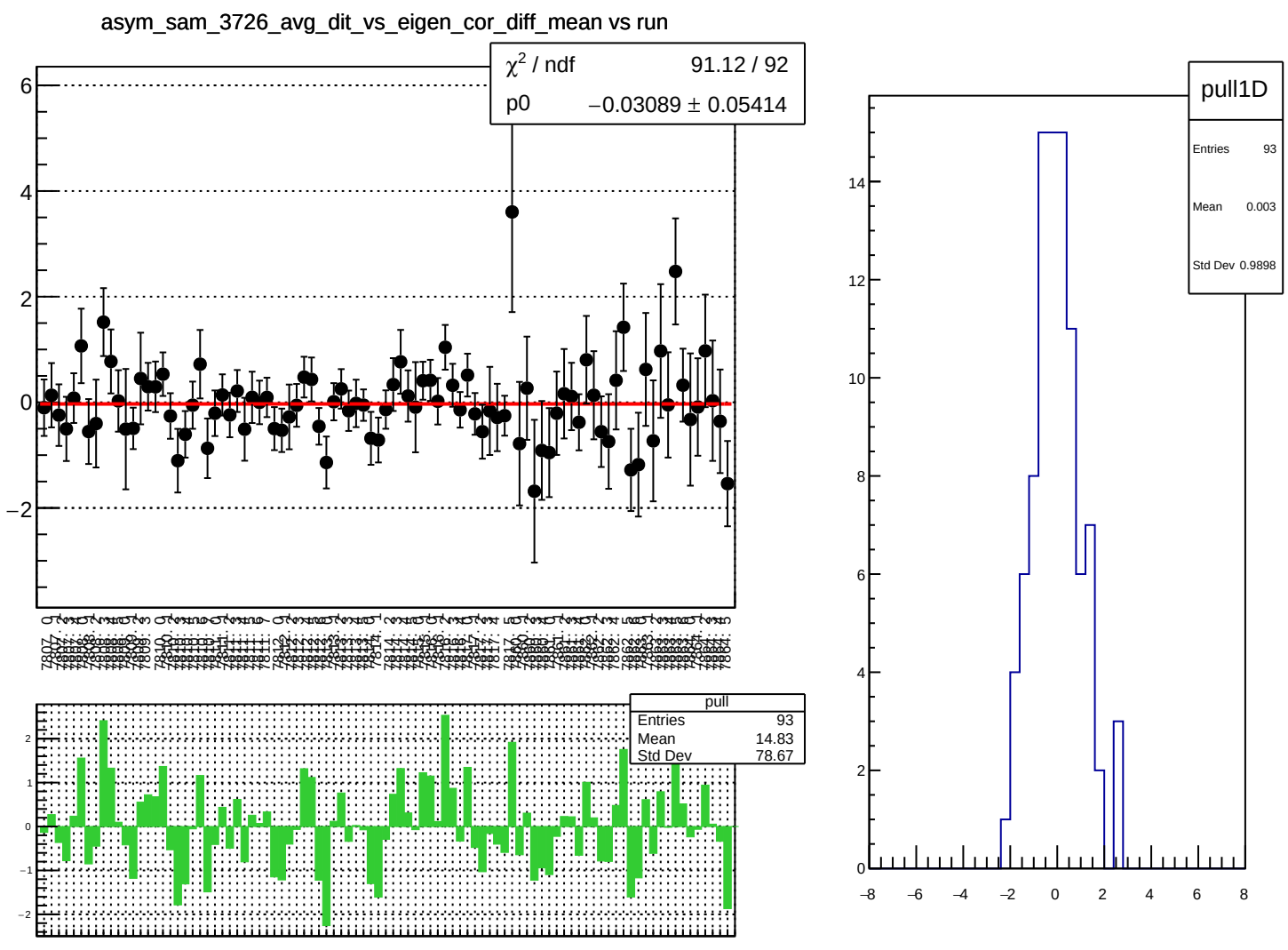

asym_sam_3726_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 81.66 / 92
p0 3.85e−13 ± 3.684e−13
0.003
0.002
0.001
0
−0.001
−0.002
−0.003
−0.004
pull
Entries 93
Mean 68.5
Std Dev 16.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

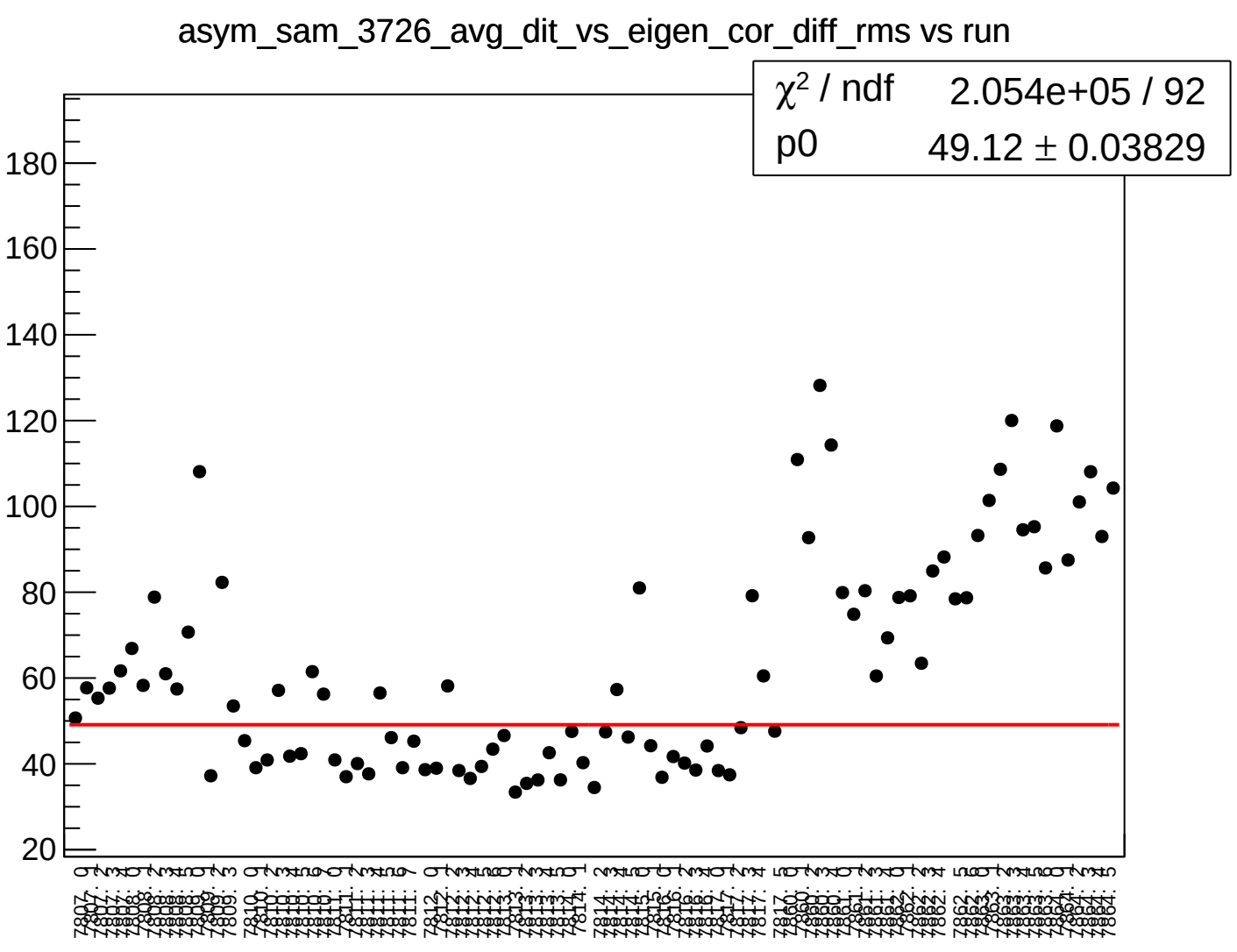

pull1D
Entries 93
Mean −0.225
Std Dev 0.9096
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

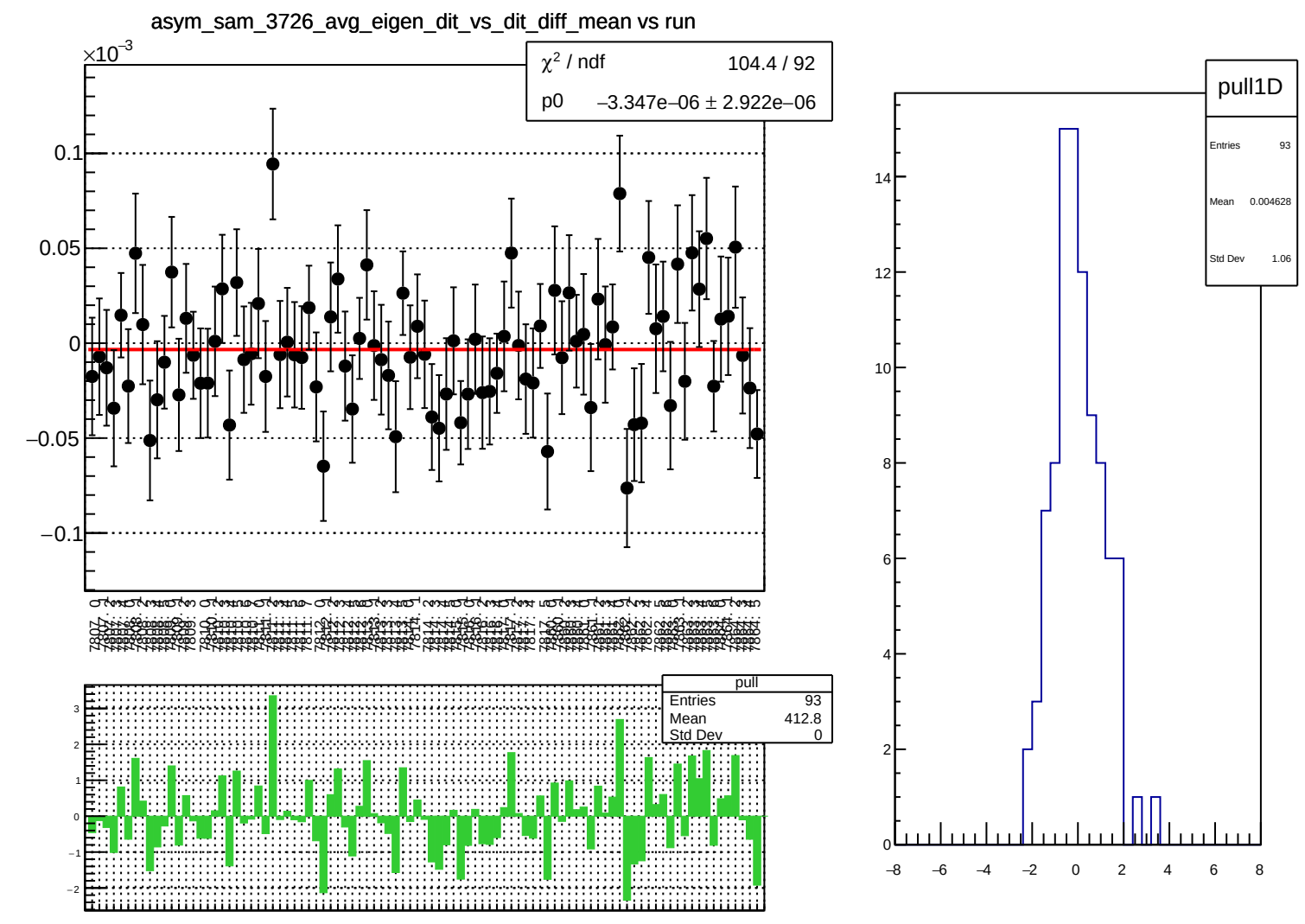

asym_sam_3726_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.087e+06 / 92
p0 2.277e−10 ± 2.605e−13
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0

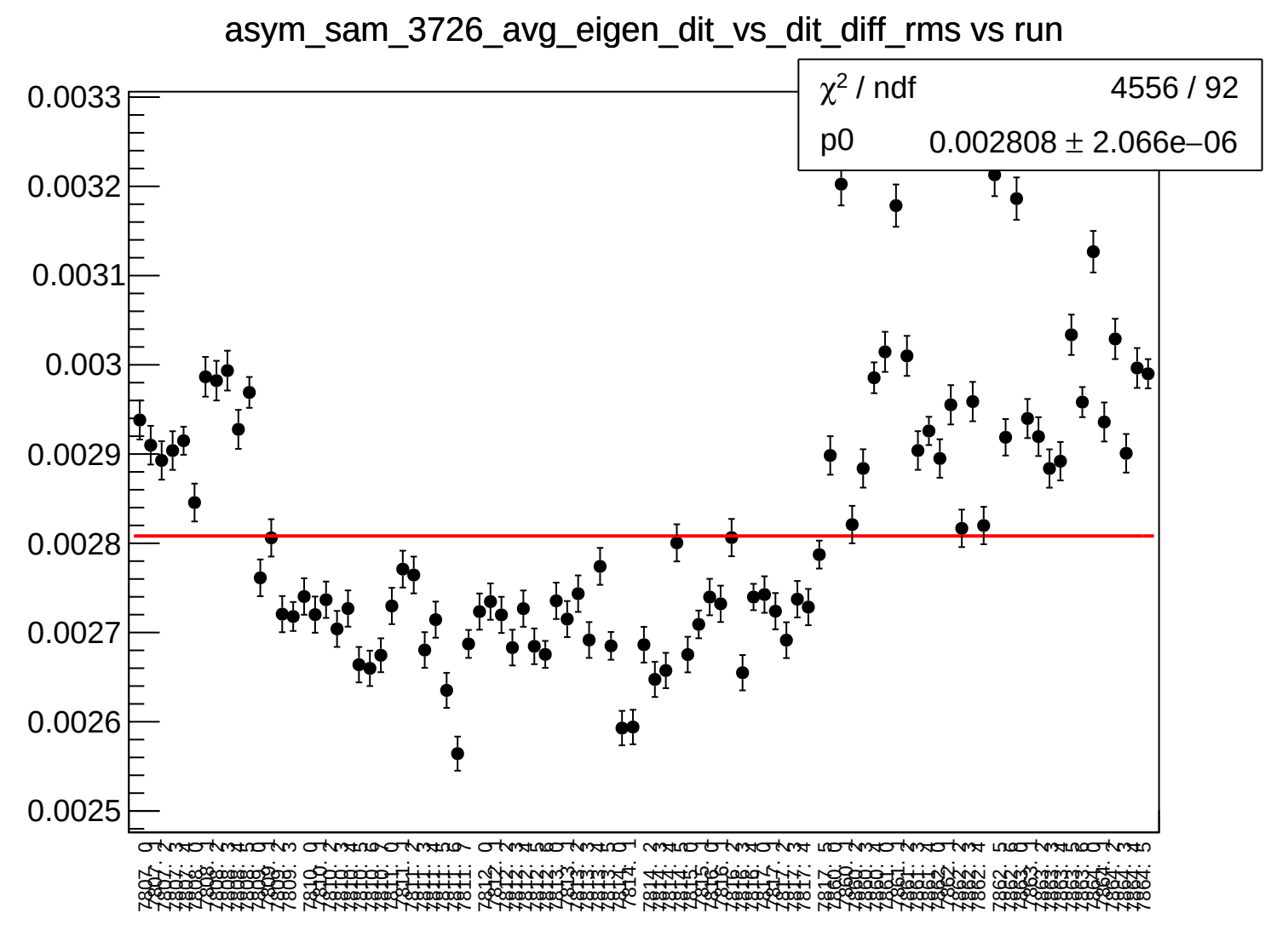

asym_sam_3726_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 91.12 / 92
p0 −0.03089 ± 0.05414
pull
Entries 93
Mean 14.83
Std Dev 78.67
pull1D
Entries 93
Mean 0.003
Std Dev 0.9898

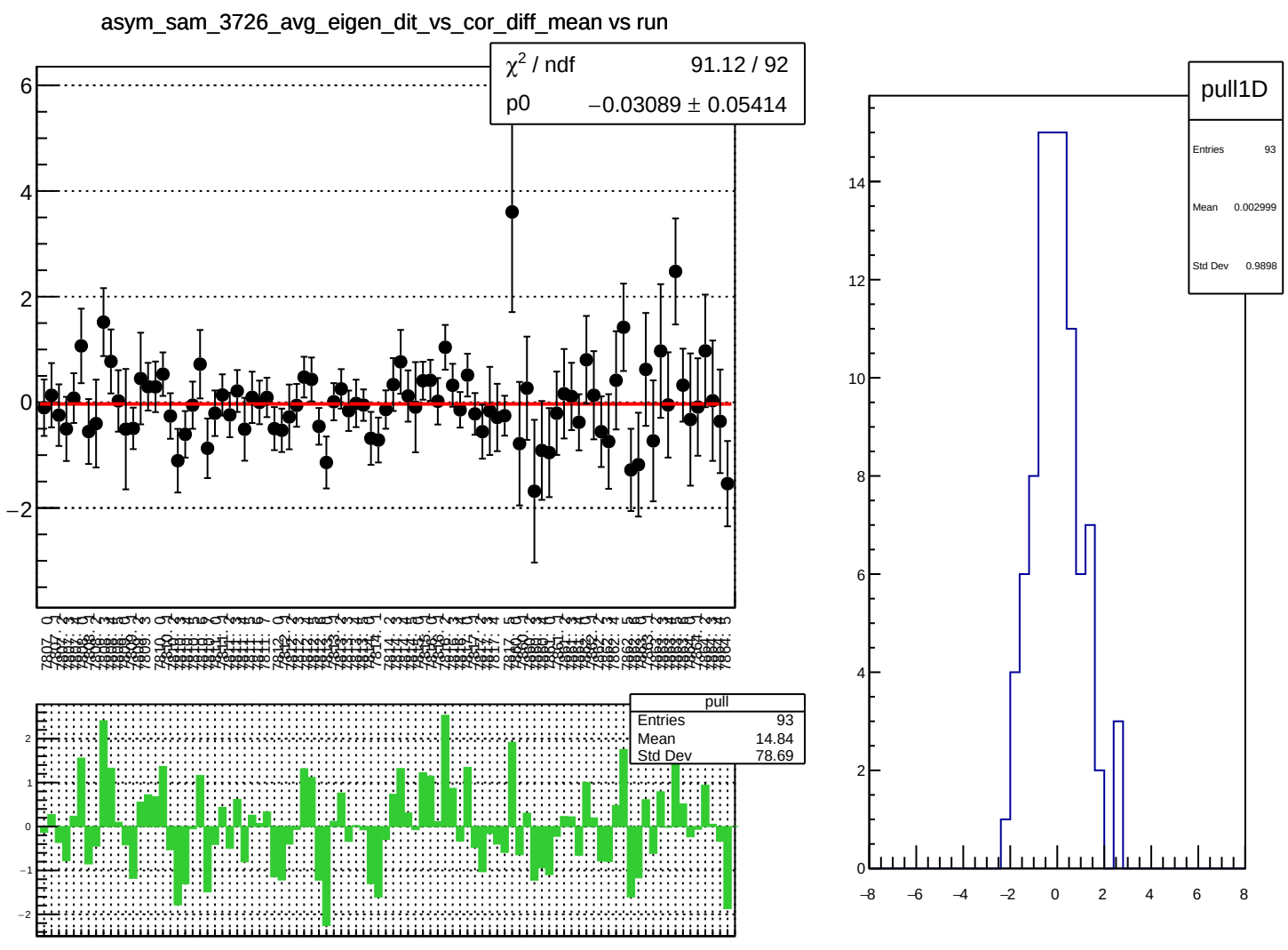

asym_sam_3726_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.054e+05 / 92
p0 49.12 ± 0.03829
180
160
140
120
100
80
60
40
20

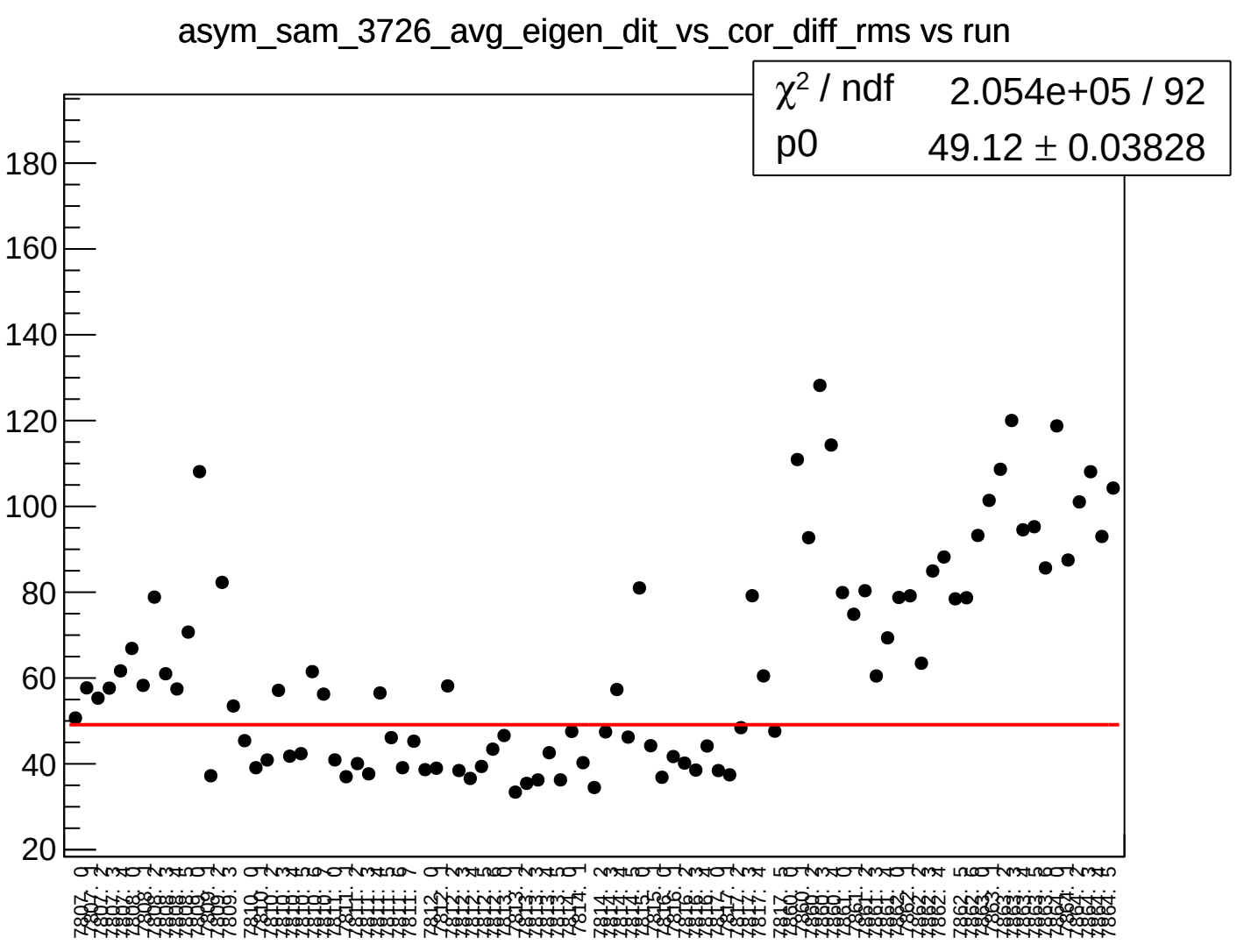

asym_sam_3726_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.12 / 92
p0 −0.03089 ± 0.05414
pull
Entries 93
Mean 14.83
Std Dev 78.67
pull1D
Entries 93
Mean 0.003
Std Dev 0.9898

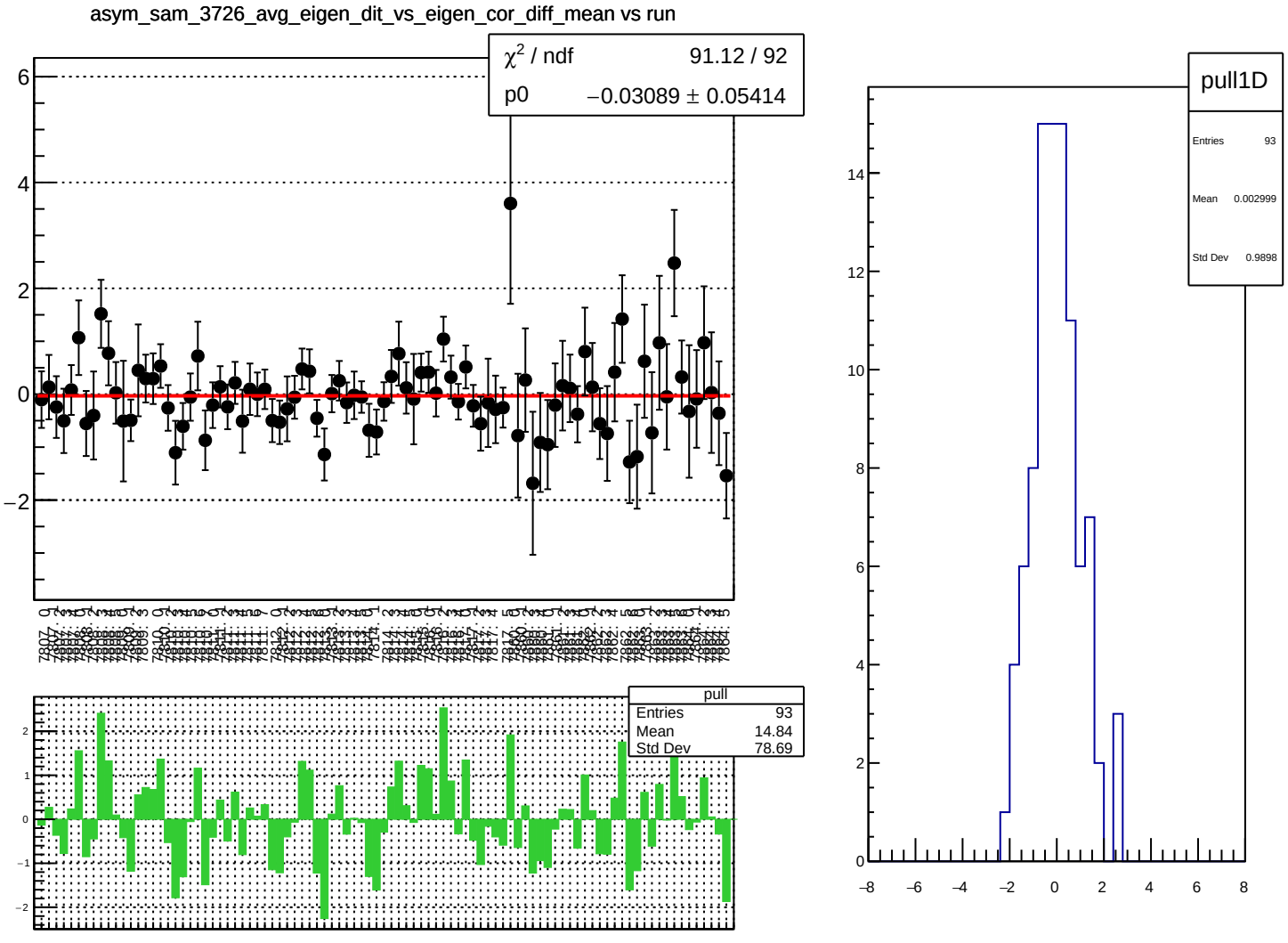

asym_sam_3726_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.054e+05 / 92
p0 49.12 ± 0.03829
180
160
140
120
100
80
60
40
20

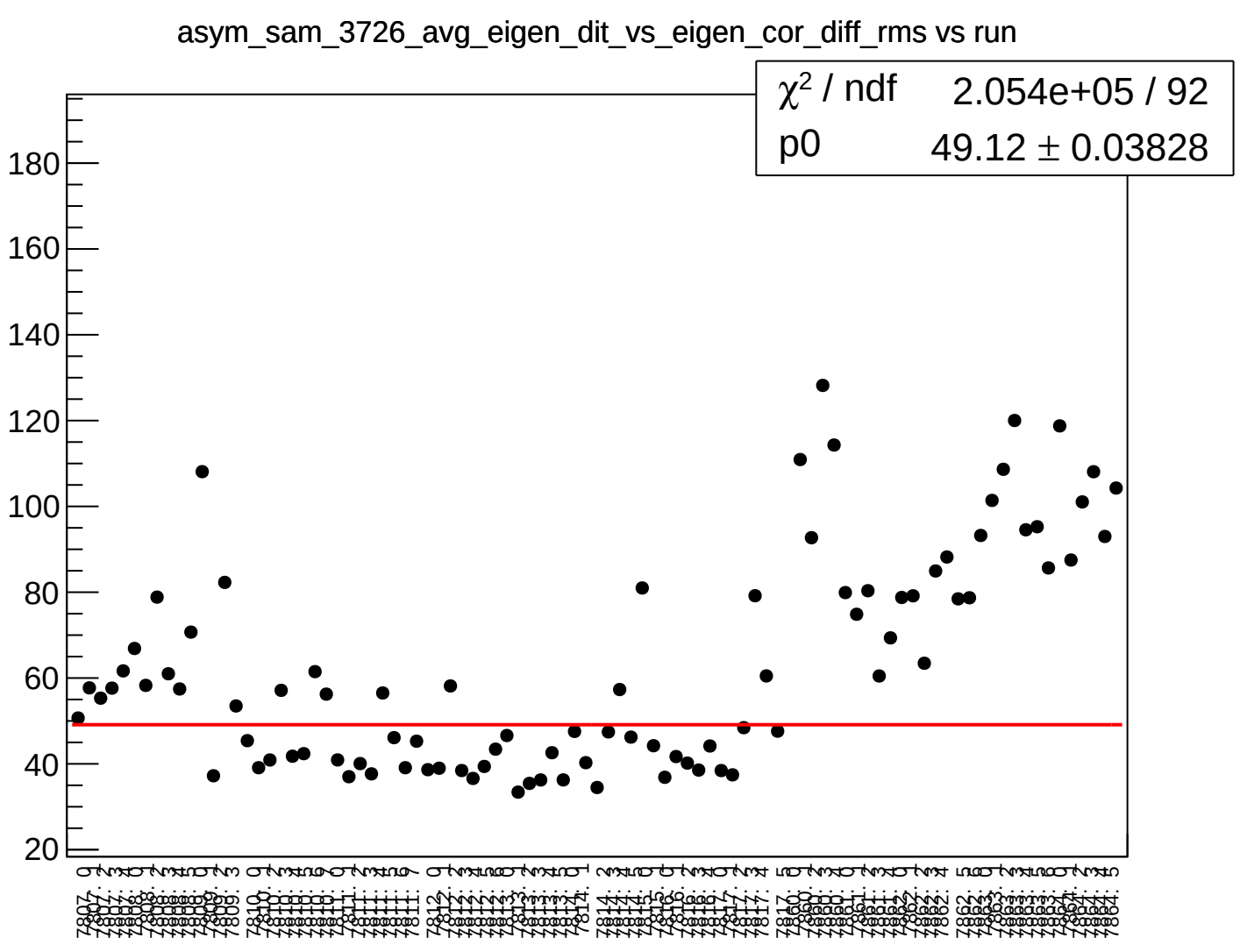

asym_sam_3726_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 104.4 / 92
p0 −3.347e−06 ± 2.922e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 93
Mean 412.8
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.004628
Std Dev 1.06
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

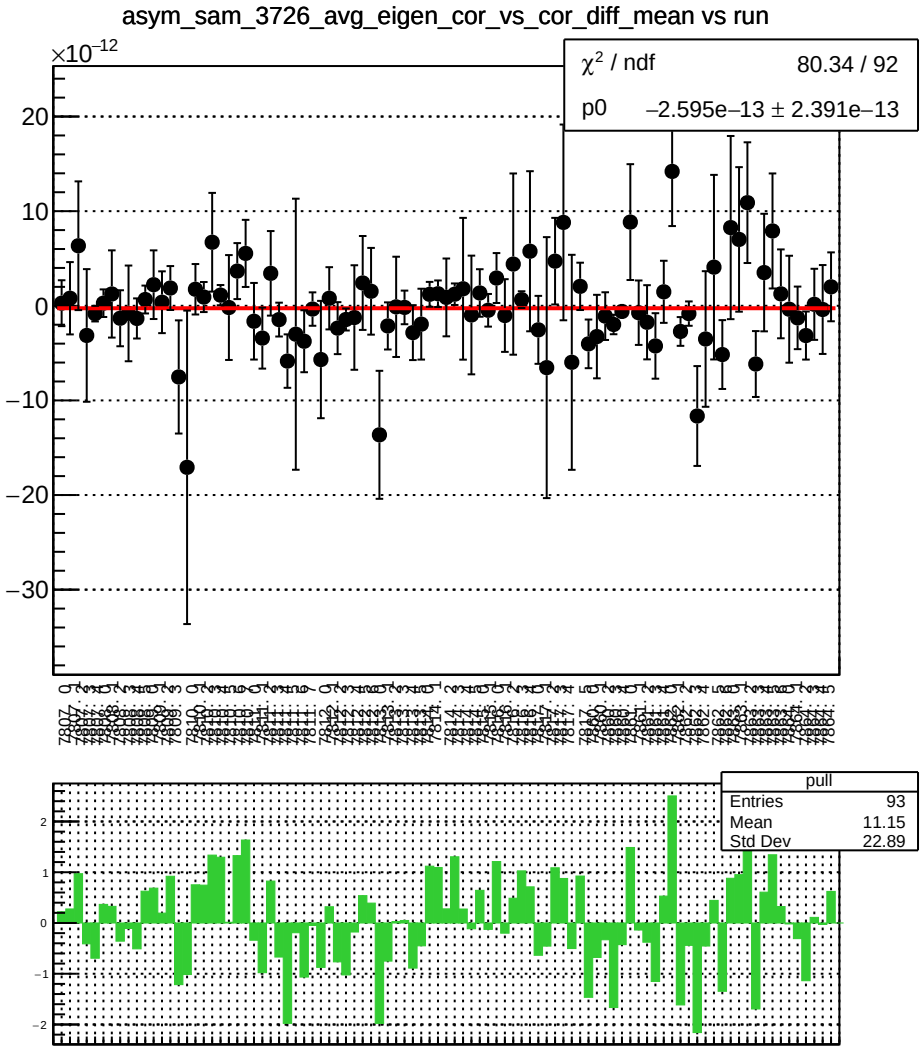

asym_sam_3726_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4556 / 92
p0 0.002808 ± 2.066e−06
0.0033
0.0032
0.0031
0.003
0.0029
0.0028
0.0027
0.0026
0.0025

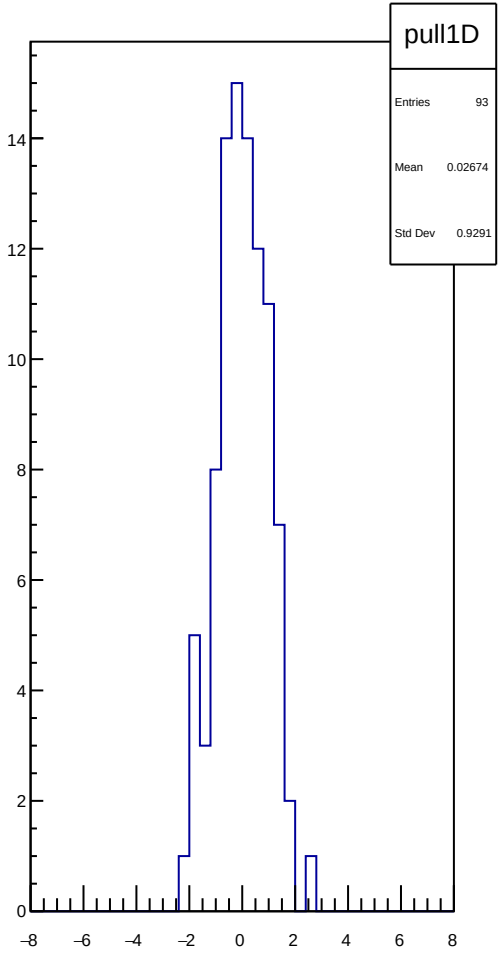

asym_sam_3726_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.12 / 92
p0 −0.03089 ± 0.05414
pull
Entries 93
Mean 14.84
Std Dev 78.69
pull1D
Entries 93
Mean 0.002999
Std Dev 0.9898

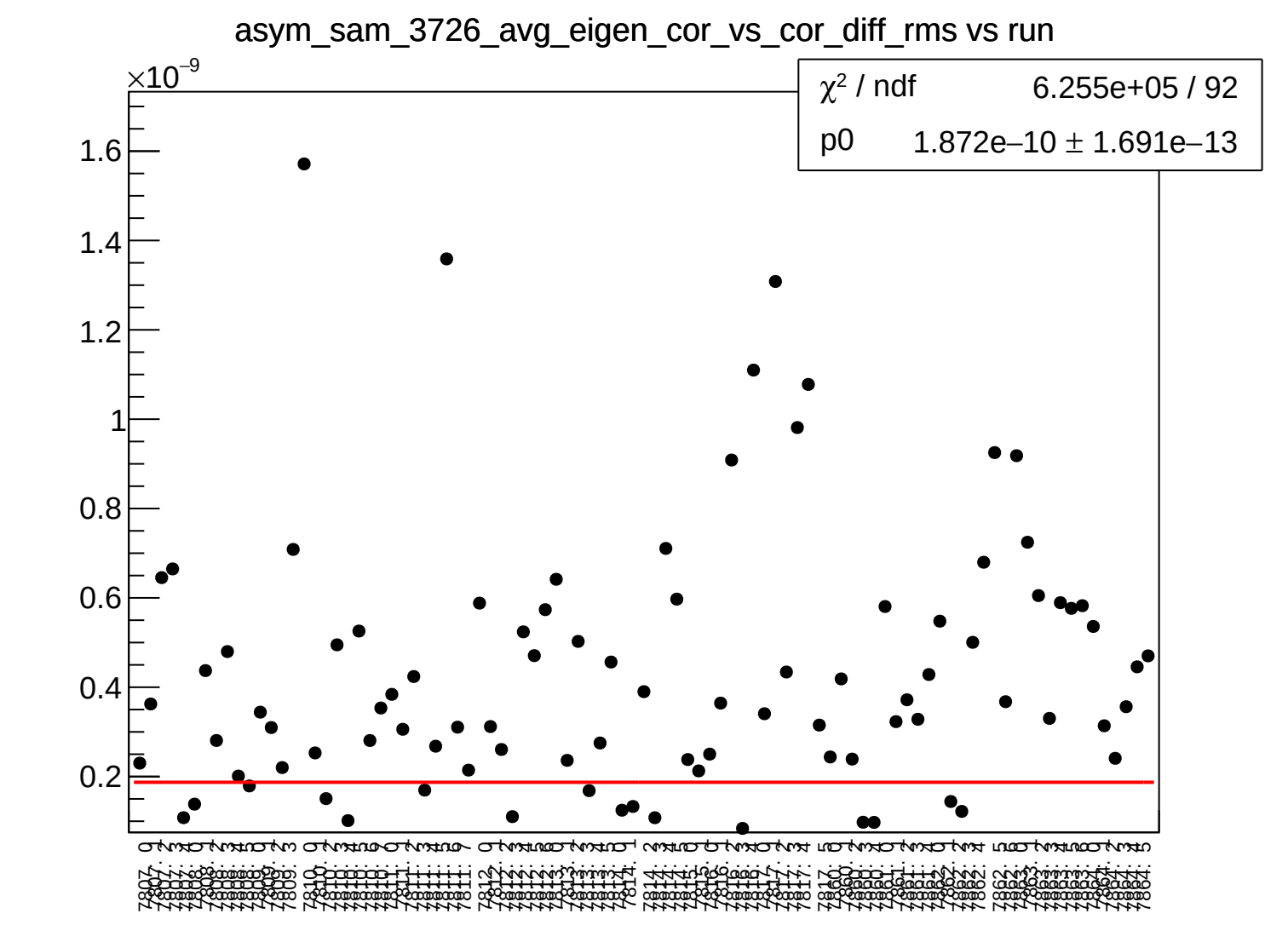

asym_sam_3726_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.054e+05 / 92
p0 49.12 ± 0.03828
180
160
140
120
100
80
60
40
20

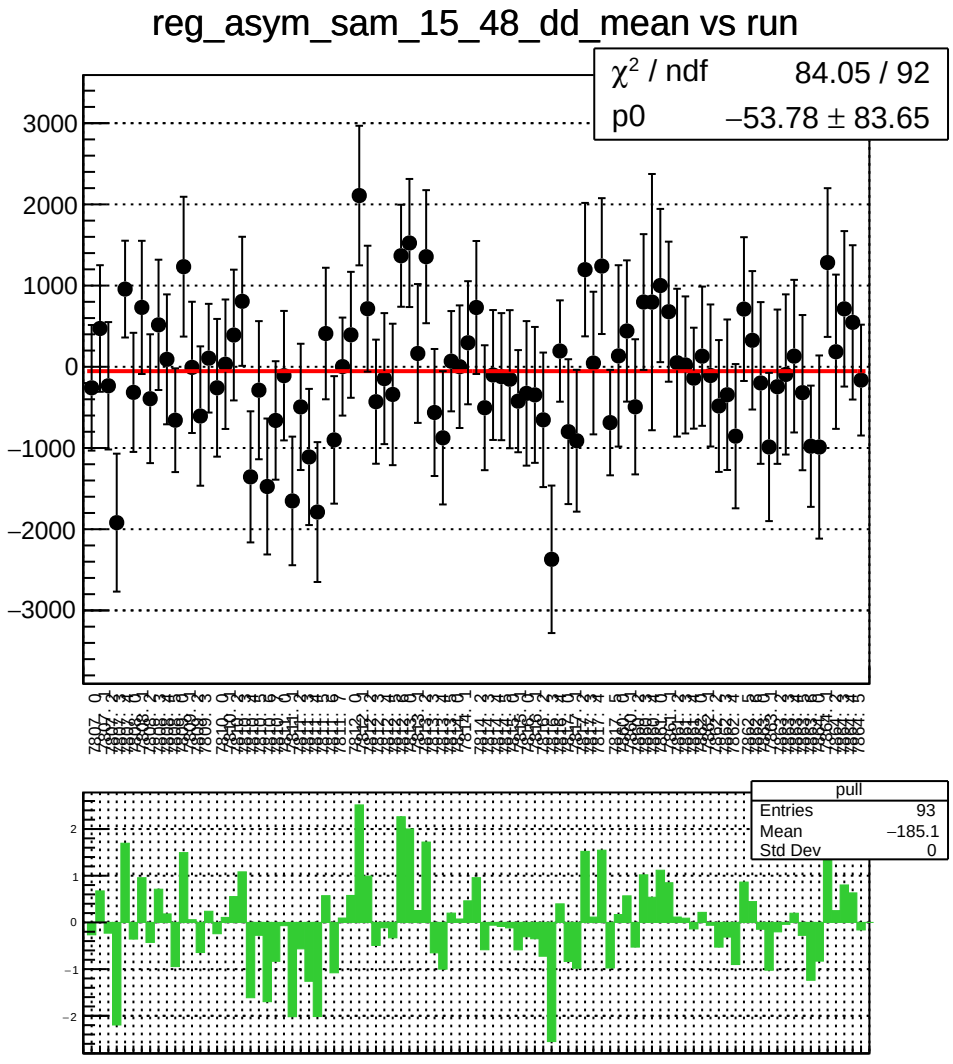

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.12 / 92
p0 −0.03089 ± 0.05414
pull
Entries 93
Mean 14.84
Std Dev 78.69
pull1D
Entries 93
Mean 0.002999
Std Dev 0.9898

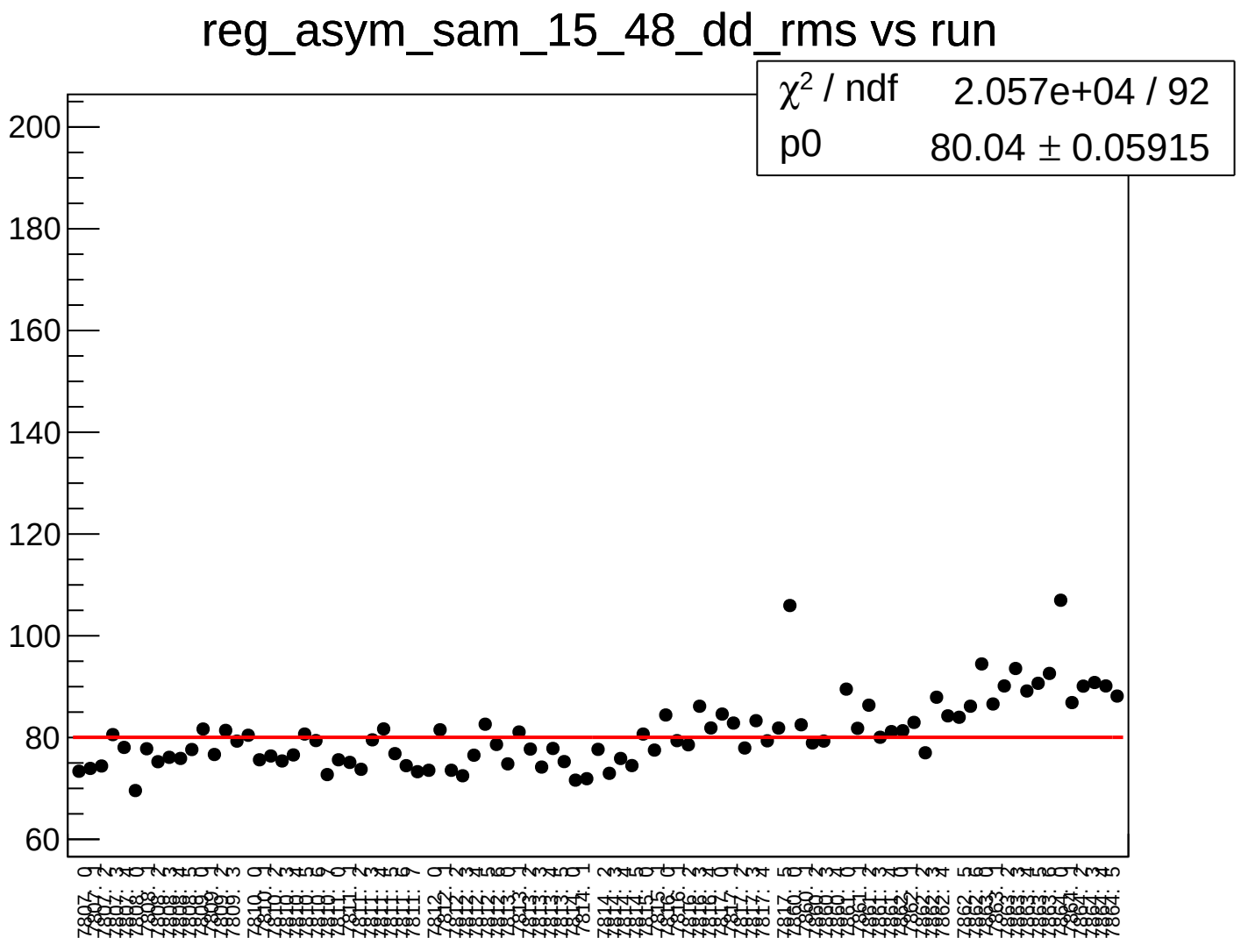

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.054e+05 / 92
p0 49.12 ± 0.03828
180
160
140
120
100
80
60
40
20

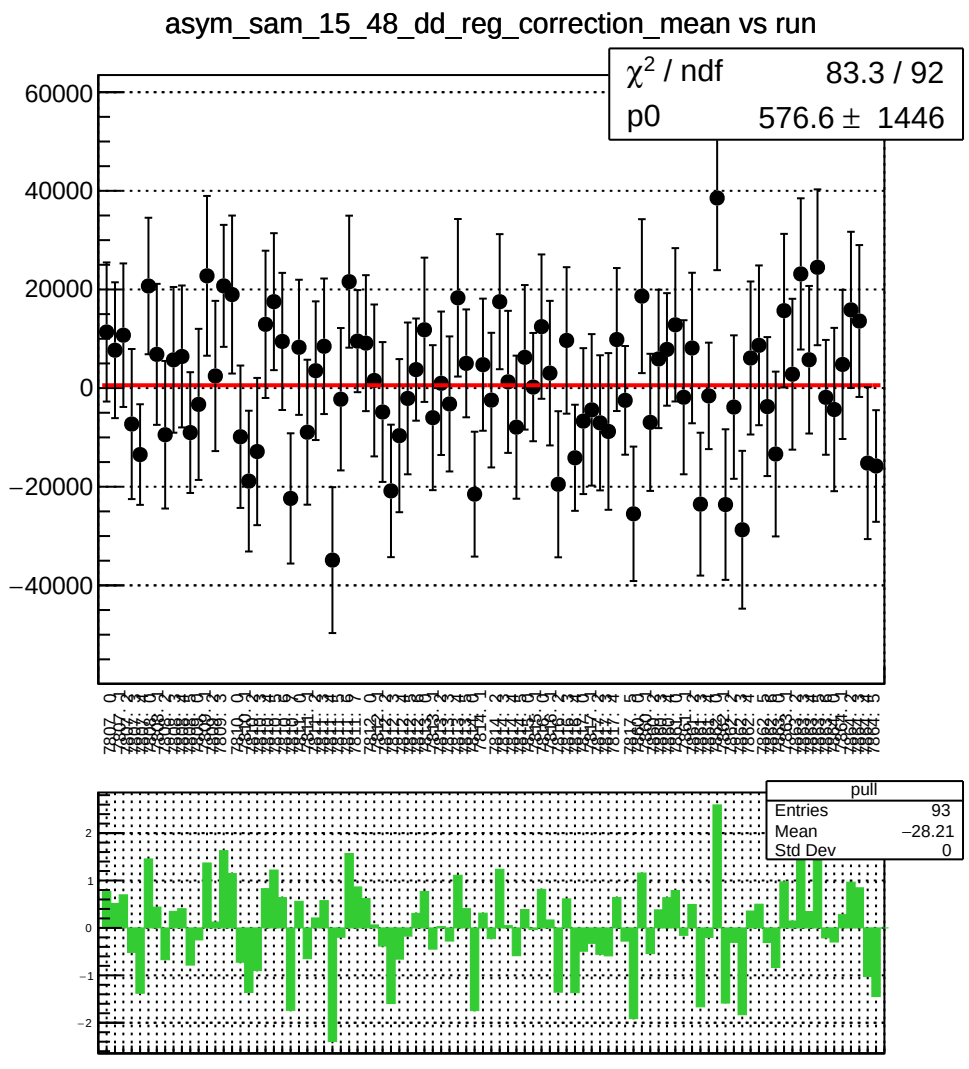

asym_sam_3726_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.34 / 92
p0 −2.595e−13 ± 2.391e−13
pull
Entries 93
Mean 11.15
Std Dev 22.89

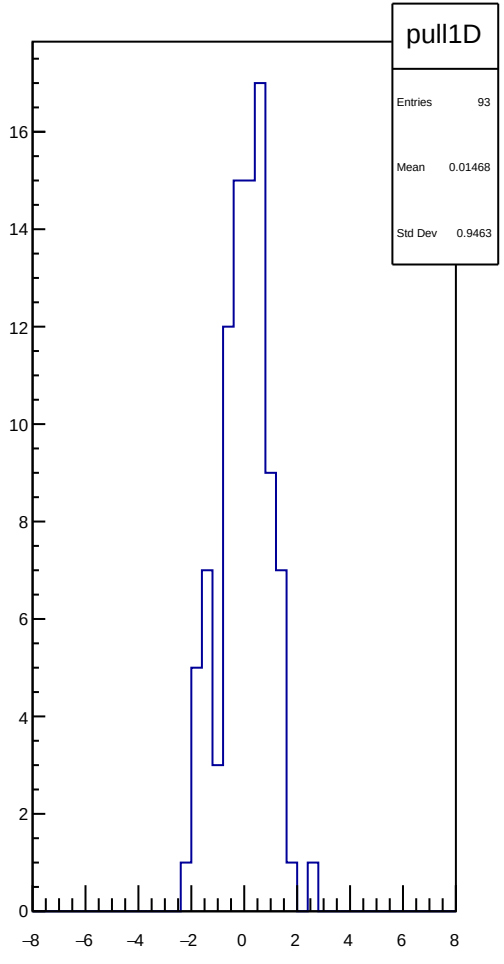

pull1D
Entries 93
Mean 0.02674
Std Dev 0.9291

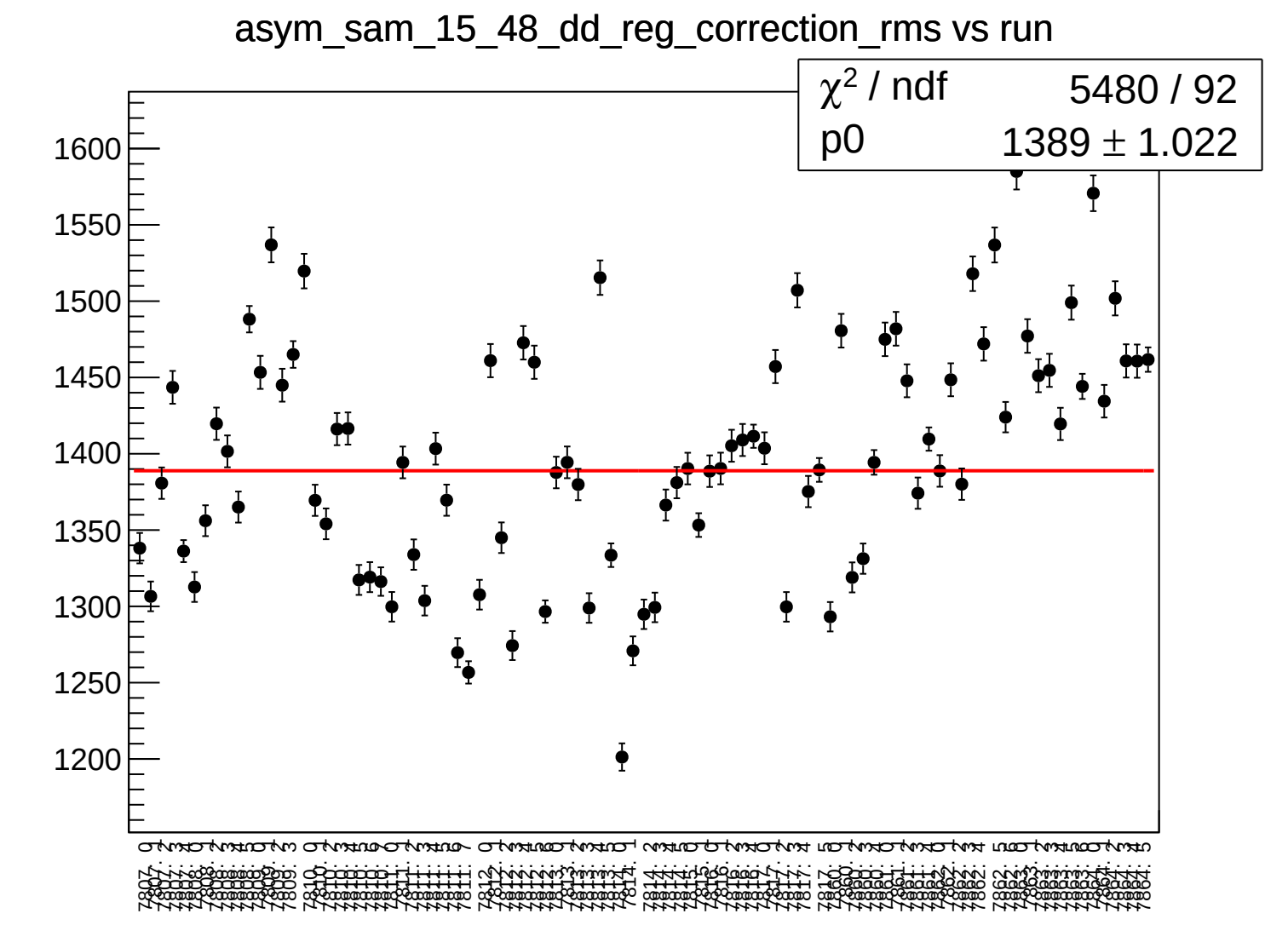

asym_sam_3726_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.255e+05 / 92
p0 1.872e−10 ± 1.691e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

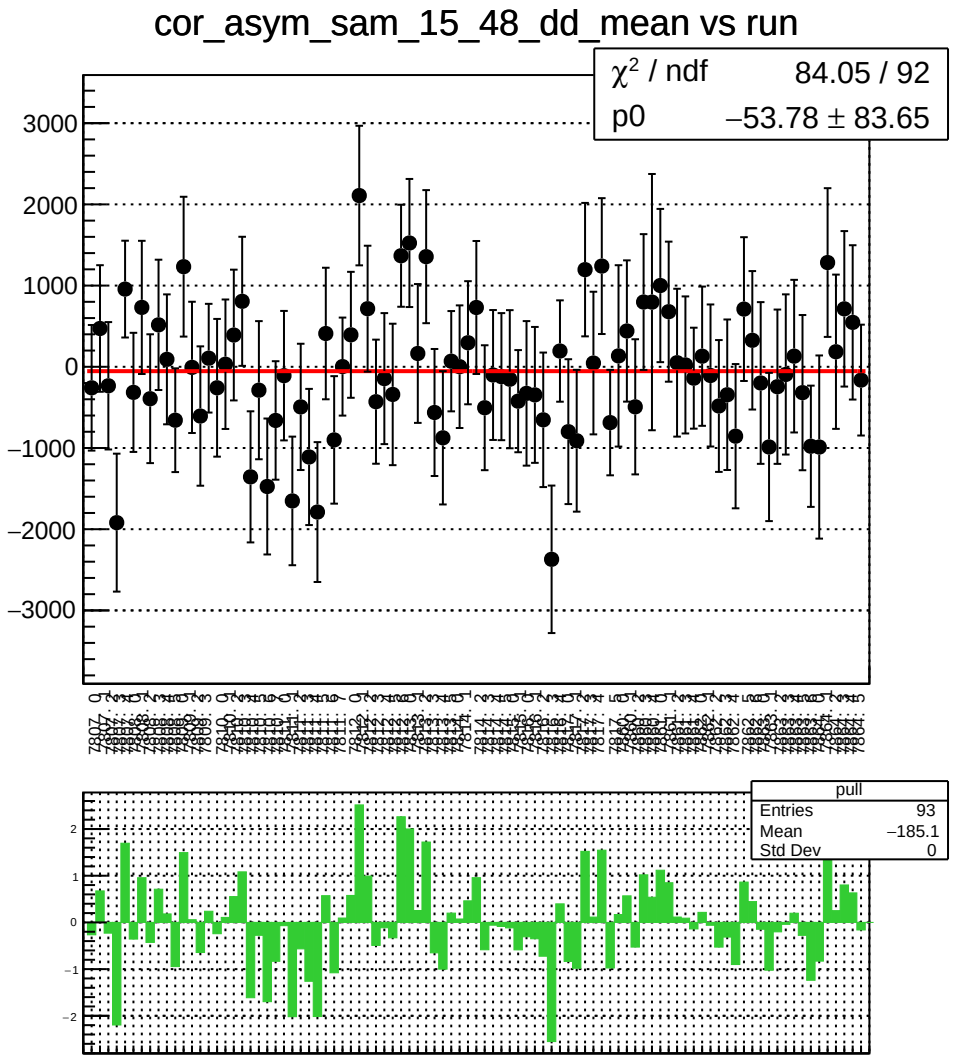

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 84.05 / 92
p0 −53.78 ± 83.65
pull
Entries 93
Mean −185.1
Std Dev 0
pull1D
Entries 93
Mean −0.005513
Std Dev 0.9506

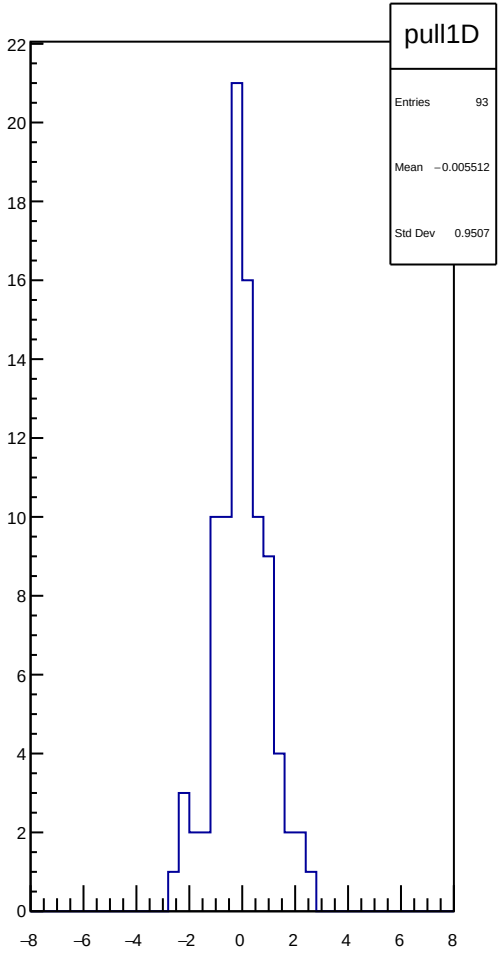

reg_asym_sam_15_48_dd_rms vs run
χ² / ndf 2.057e+04 / 92
p0 80.04 ± 0.05915
200
180
160
140
120
100
80
60

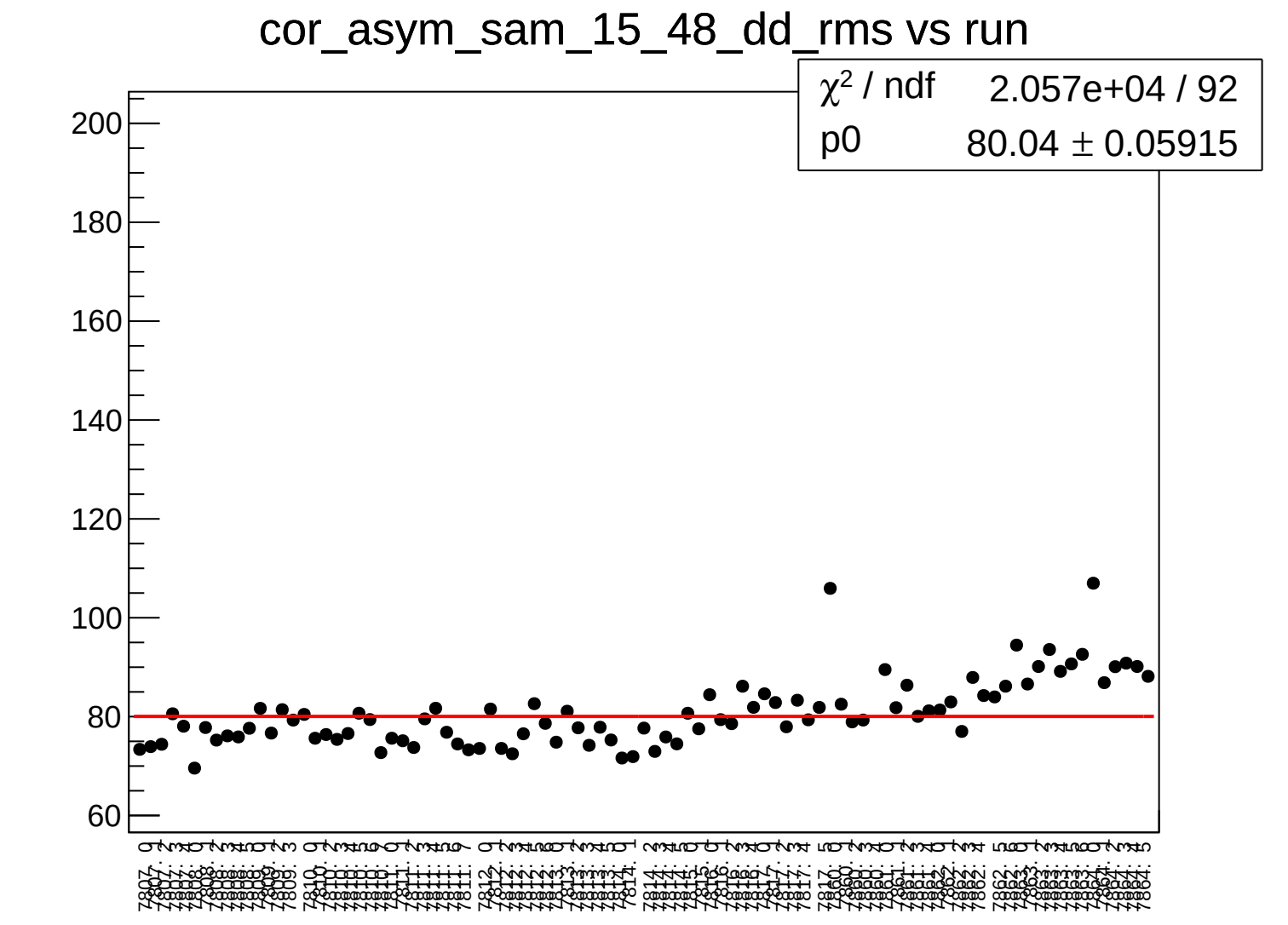

asym_sam_15_48_dd_reg_correction_mean vs run
χ² / ndf 83.3 / 92
p0 576.6 ± 1446
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −28.21
Std Dev 0
2
1
0
−1
−2

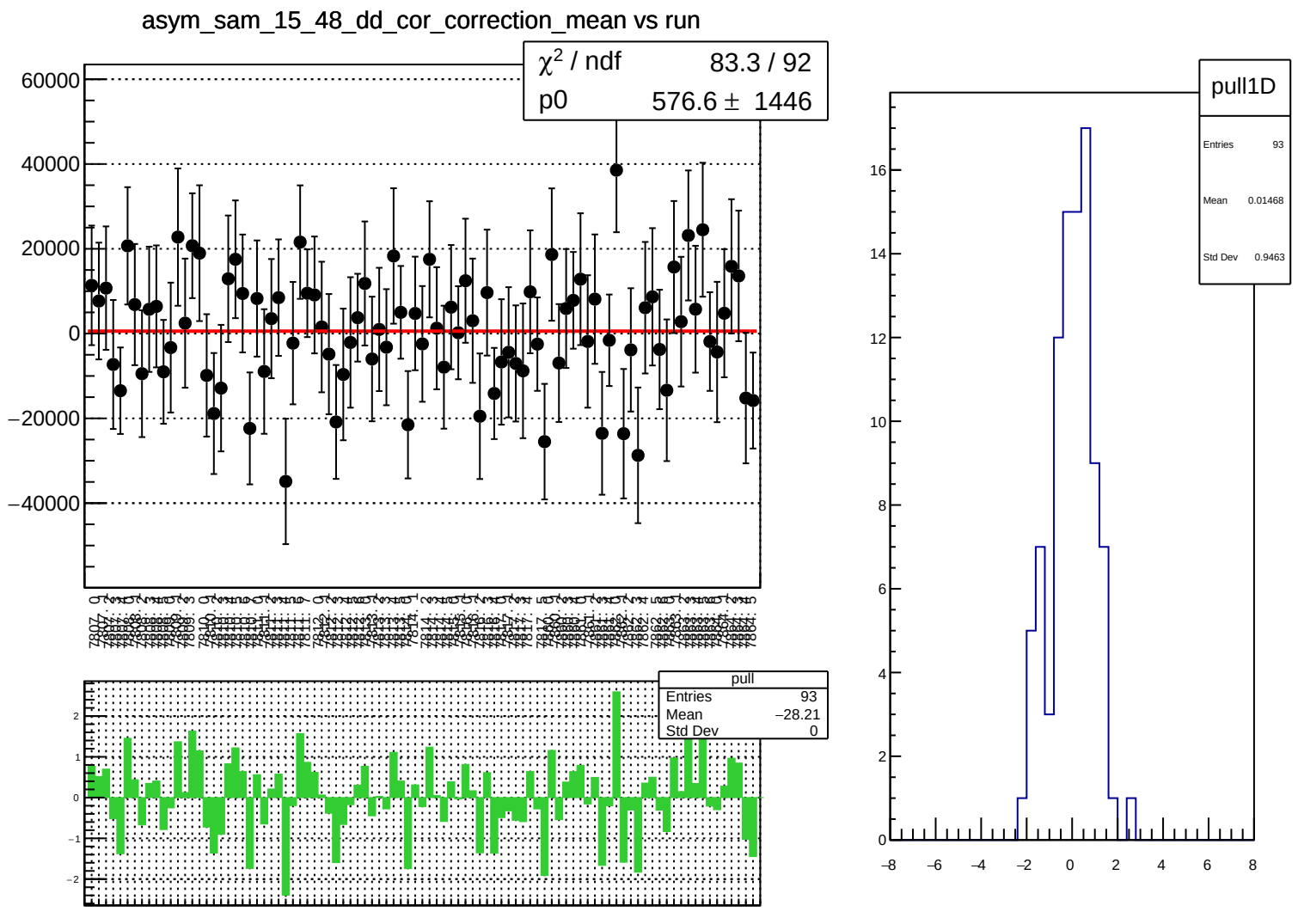

pull1D
Entries 93
Mean 0.01468
Std Dev 0.9463
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

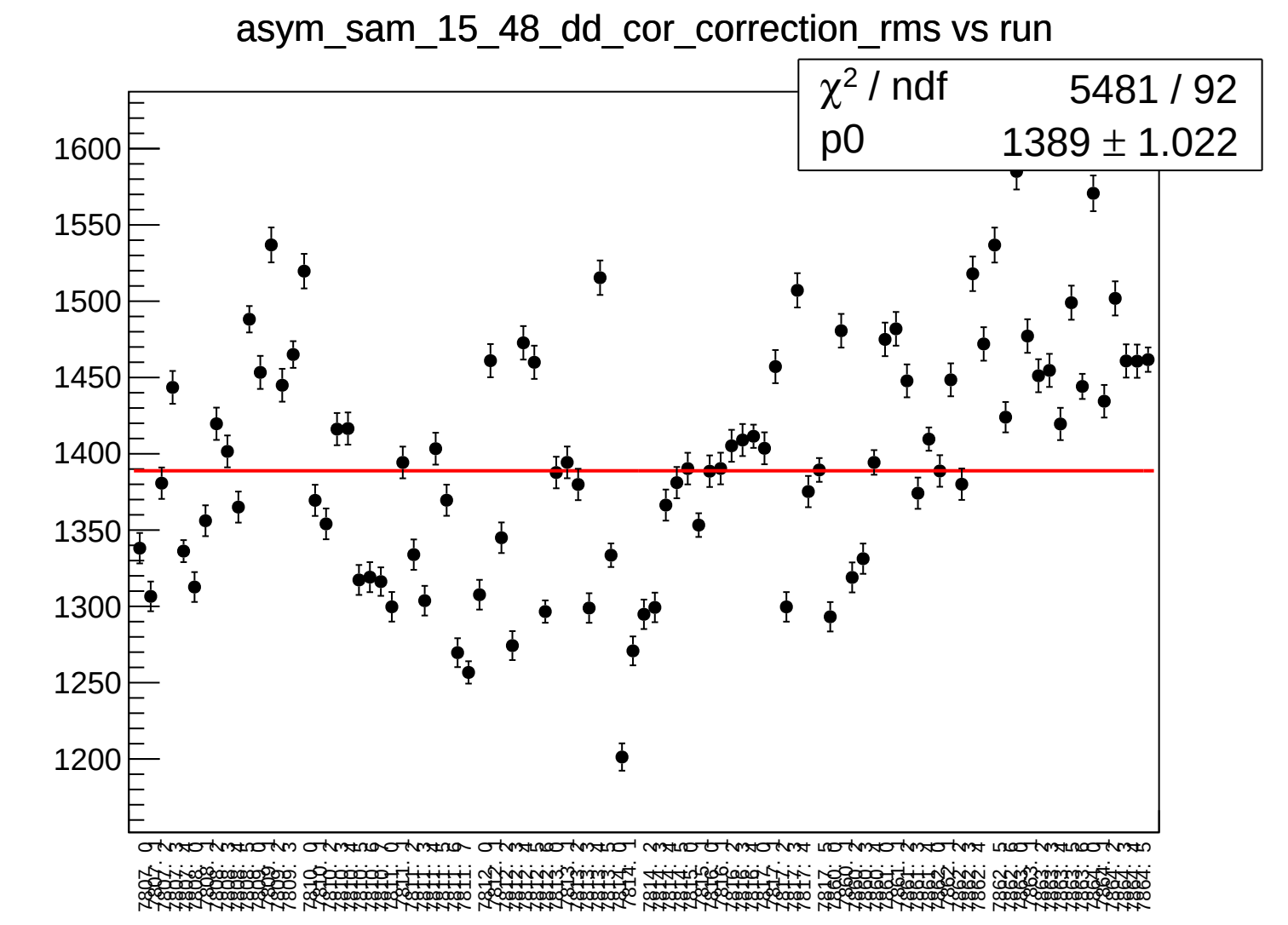

asym_sam_15_48_dd_reg_correction_rms vs run
χ² / ndf 5480 / 92
p0 1389 ± 1.022
1600
1550
1500
1450
1400
1350
1300
1250
1200

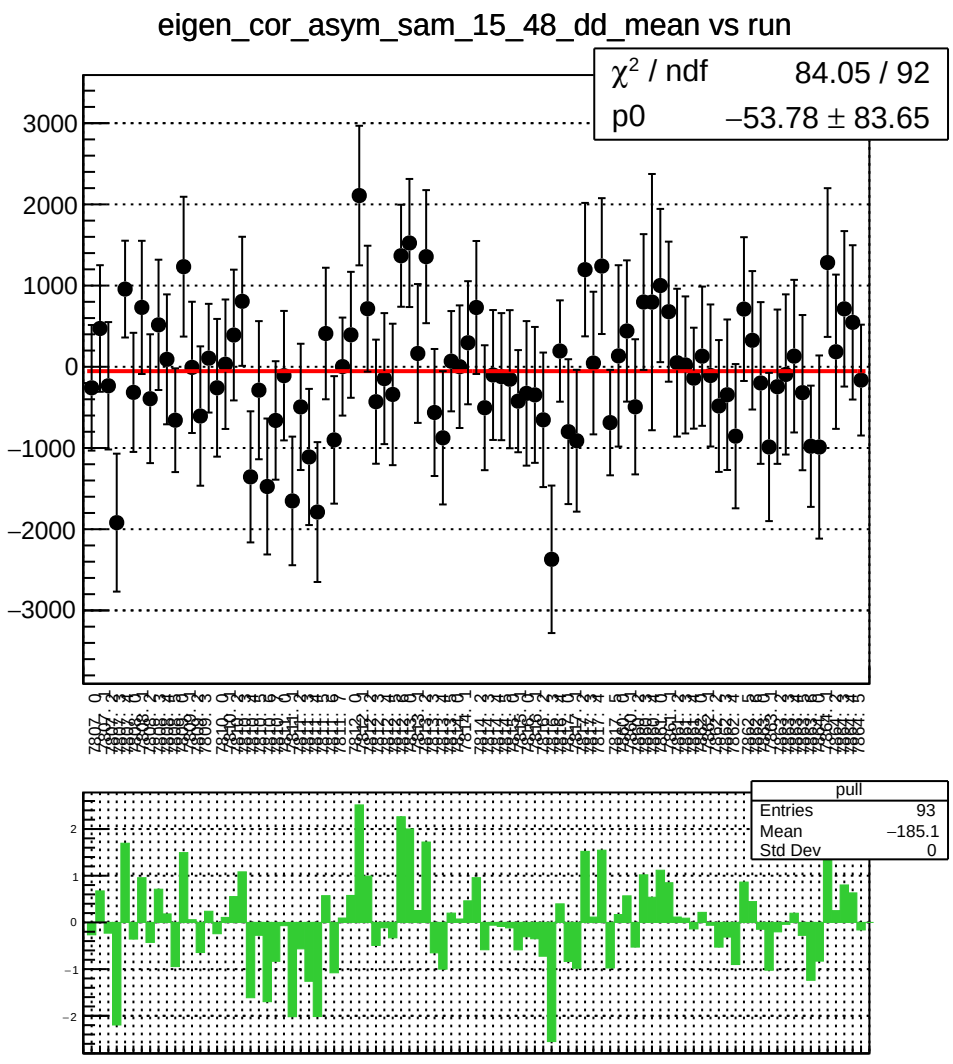

cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 84.05 / 92
p0 −53.78 ± 83.65
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean −185.1
Std Dev 0
2
1
0
−1
−2

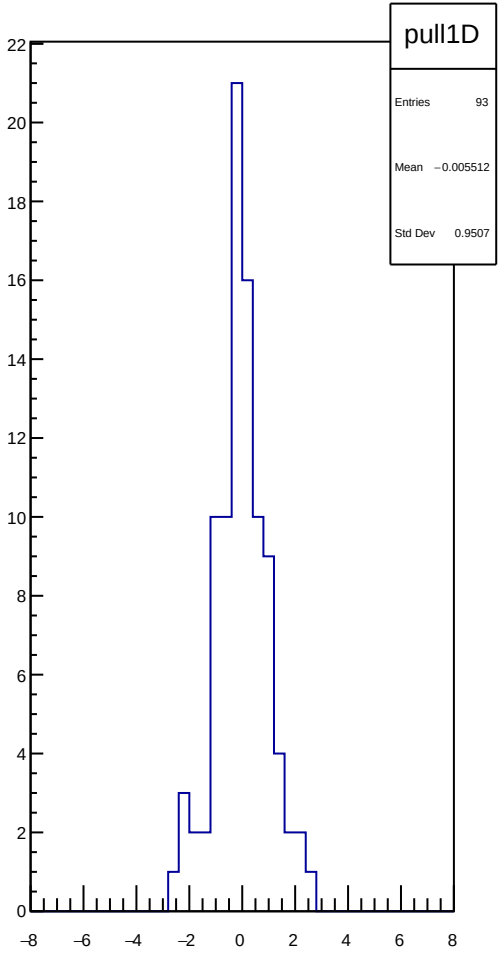

pull1D
Entries 93
Mean −0.005512
Std Dev 0.9507
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

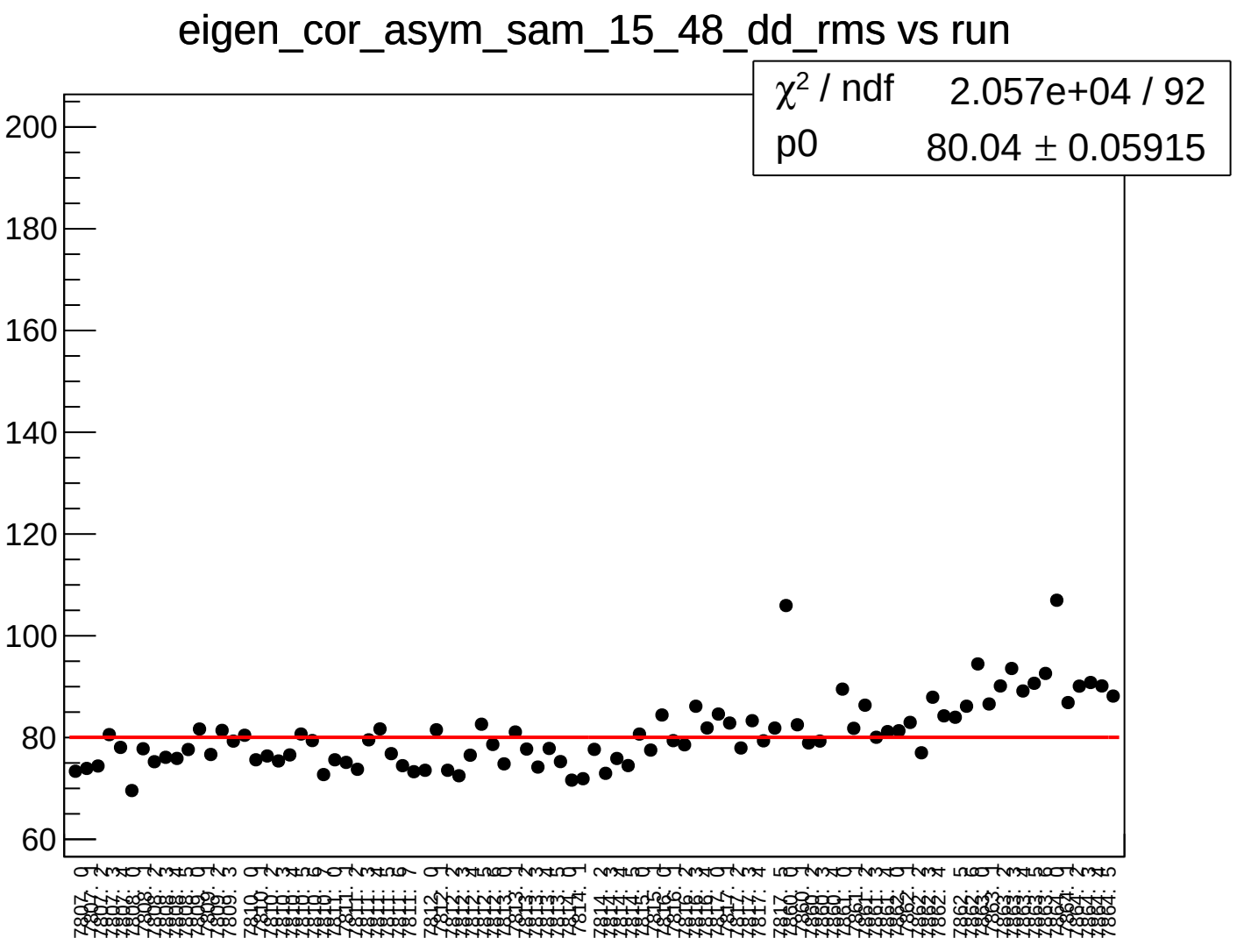

cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 2.057e+04 / 92
p0 80.04 ± 0.05915
200
180
160
140
120
100
80
60

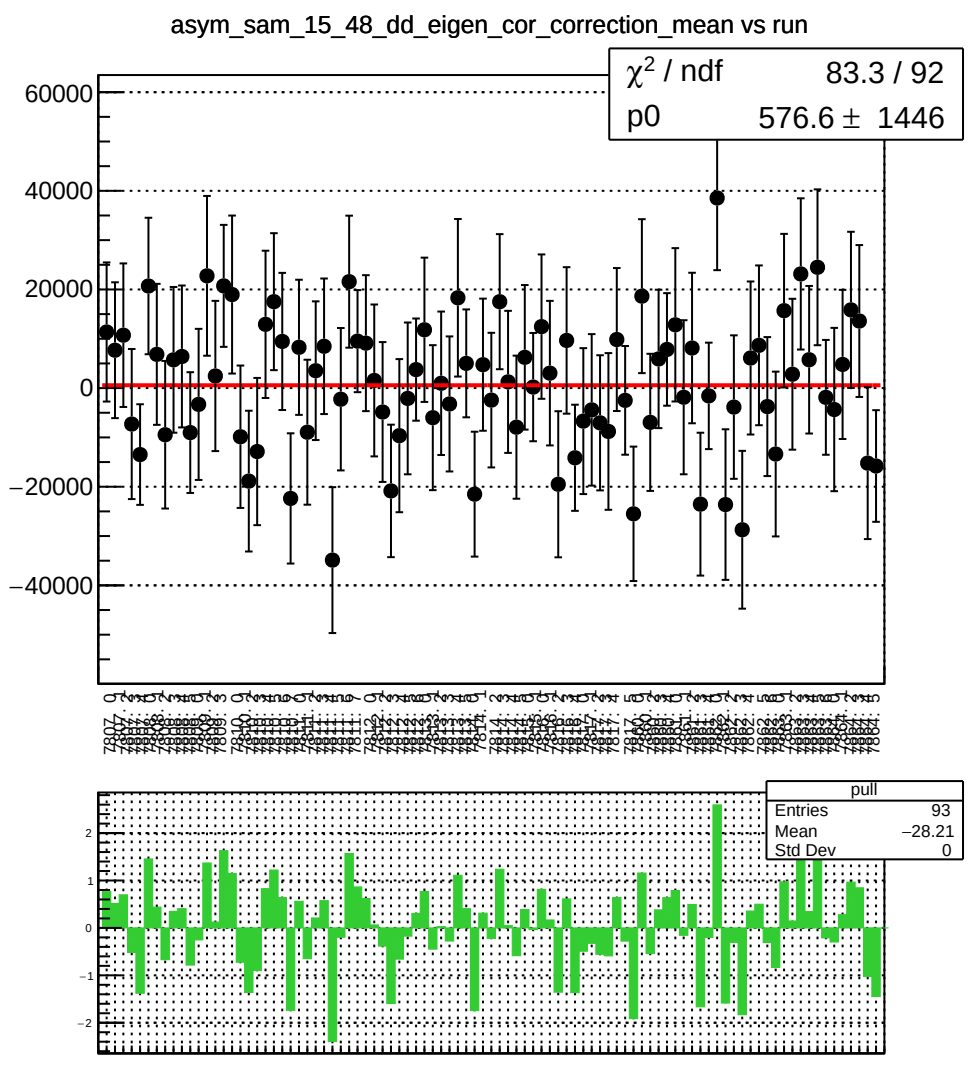

asym_sam_15_48_dd_cor_correction_mean vs run
χ² / ndf 83.3 / 92
p0 576.6 ± 1446
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −28.21
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.01468
Std Dev 0.9463
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

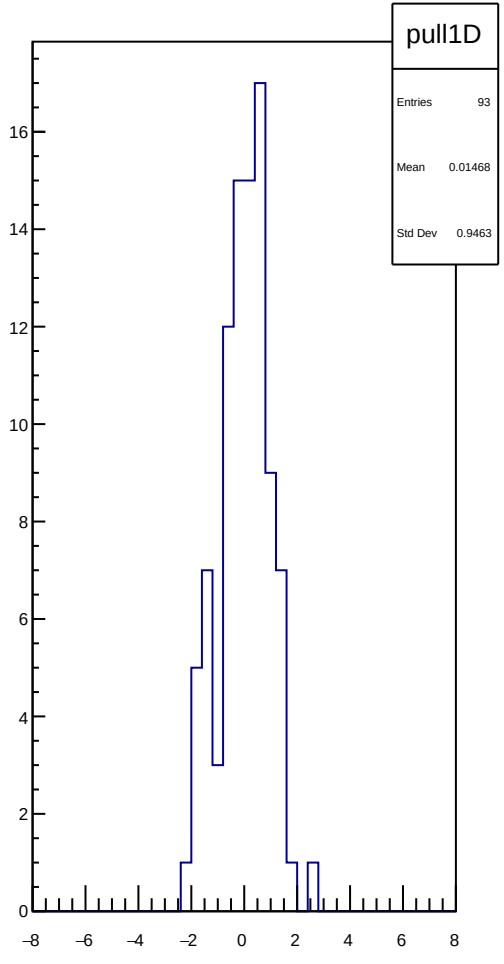

asym_sam_15_48_dd_cor_correction_rms vs run
χ² / ndf 5481 / 92
p0 1389 ± 1.022
1600
1550
1500
1450
1400
1350
1300
1250
1200

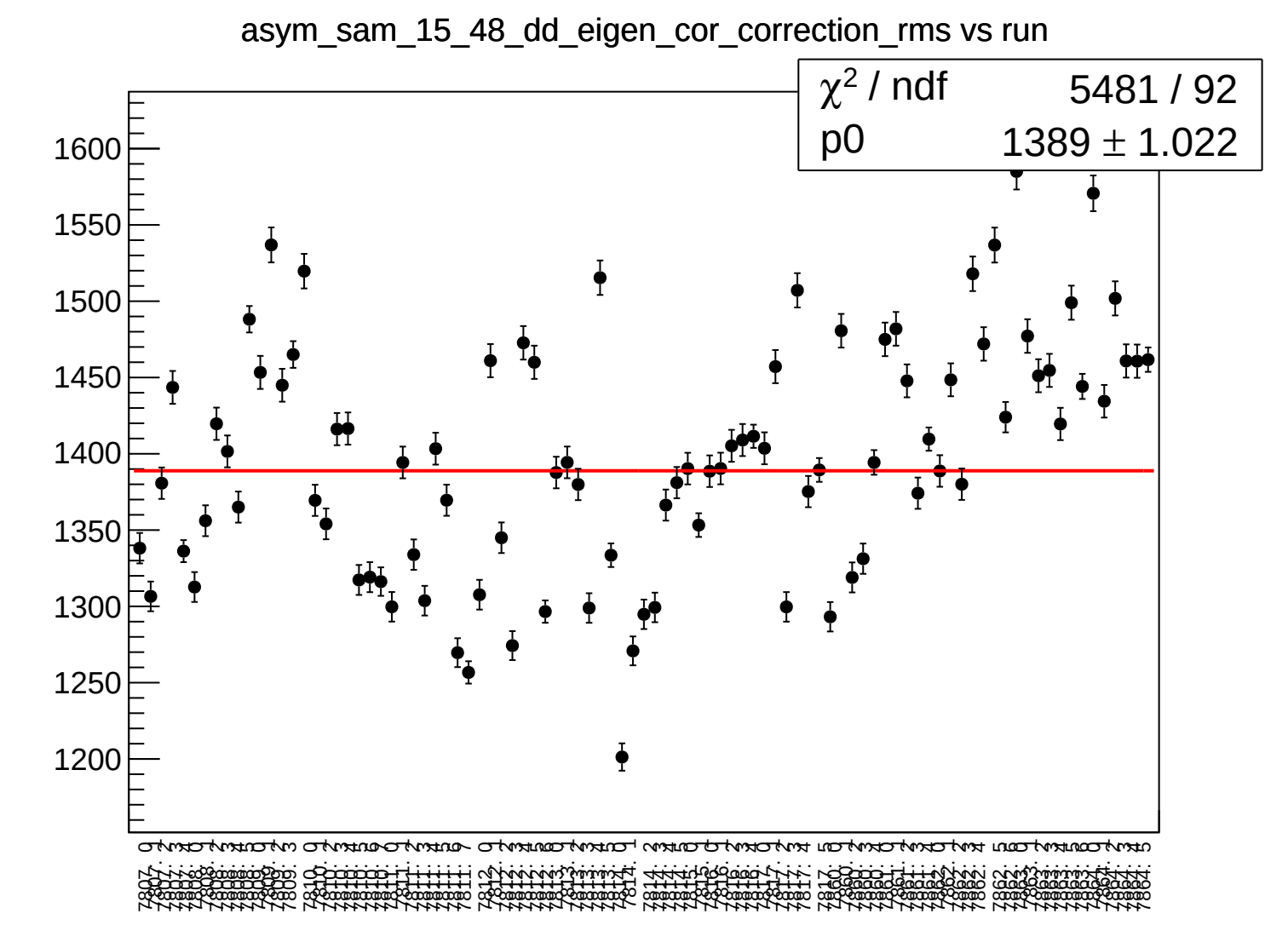

eigen_cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 84.05 / 92
p0 −53.78 ± 83.65
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean −185.1
Std Dev 0
2
1
0
−1
−2

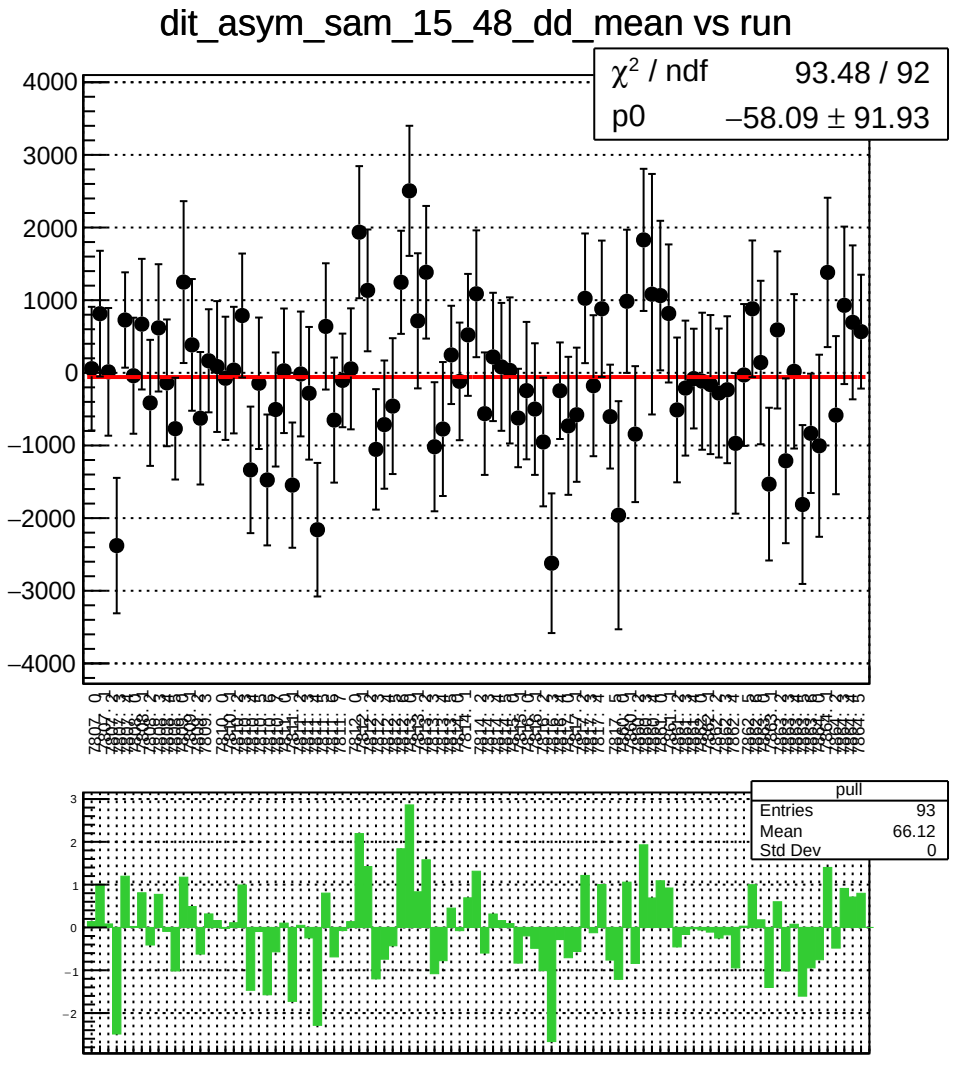

pull1D
Entries 93
Mean −0.005512
Std Dev 0.9507
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

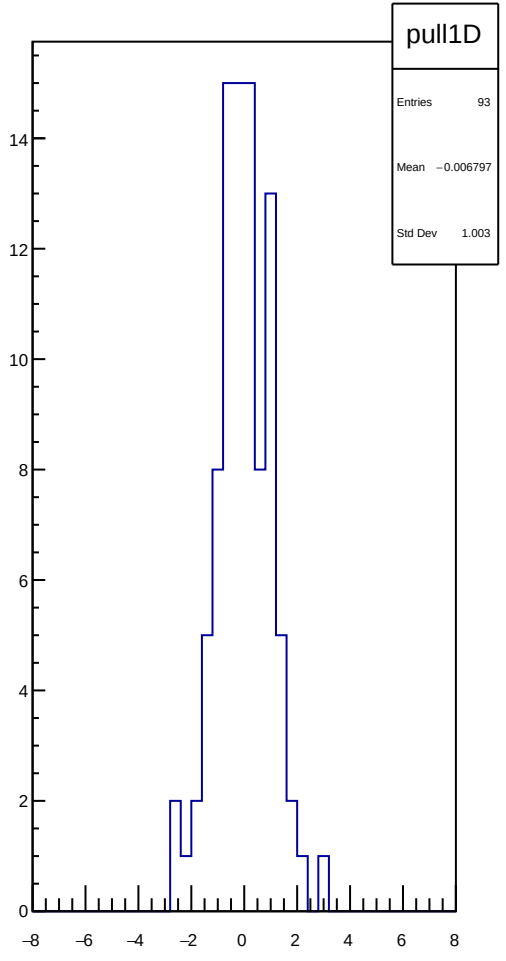

eigen_cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 2.057e+04 / 92
p0 80.04 ± 0.05915
200
180
160
140
120
100
80
60

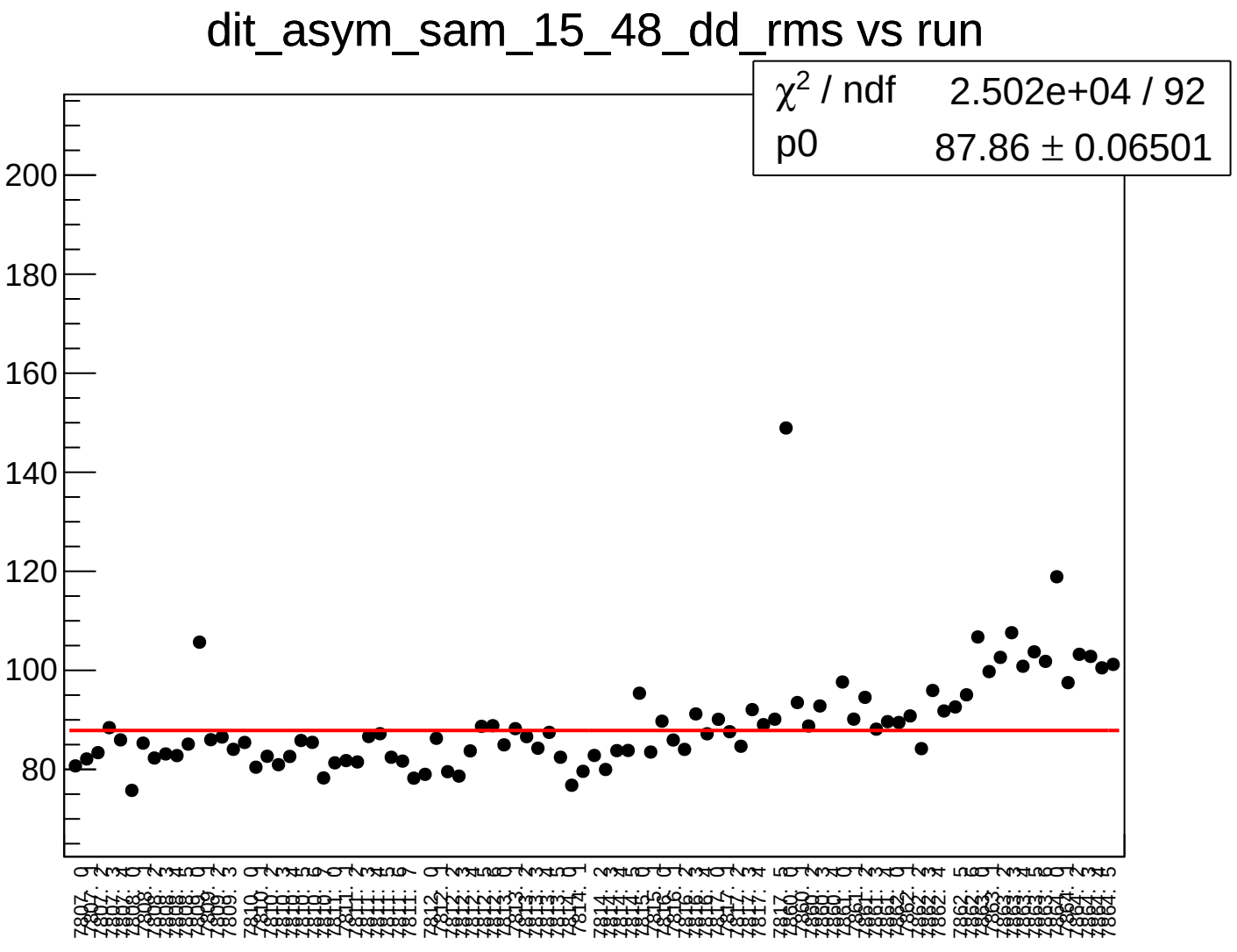

asym_sam_15_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 83.3 / 92
p0 576.6 ± 1446
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −28.21
Std Dev 0
2
1
0
−1
−2

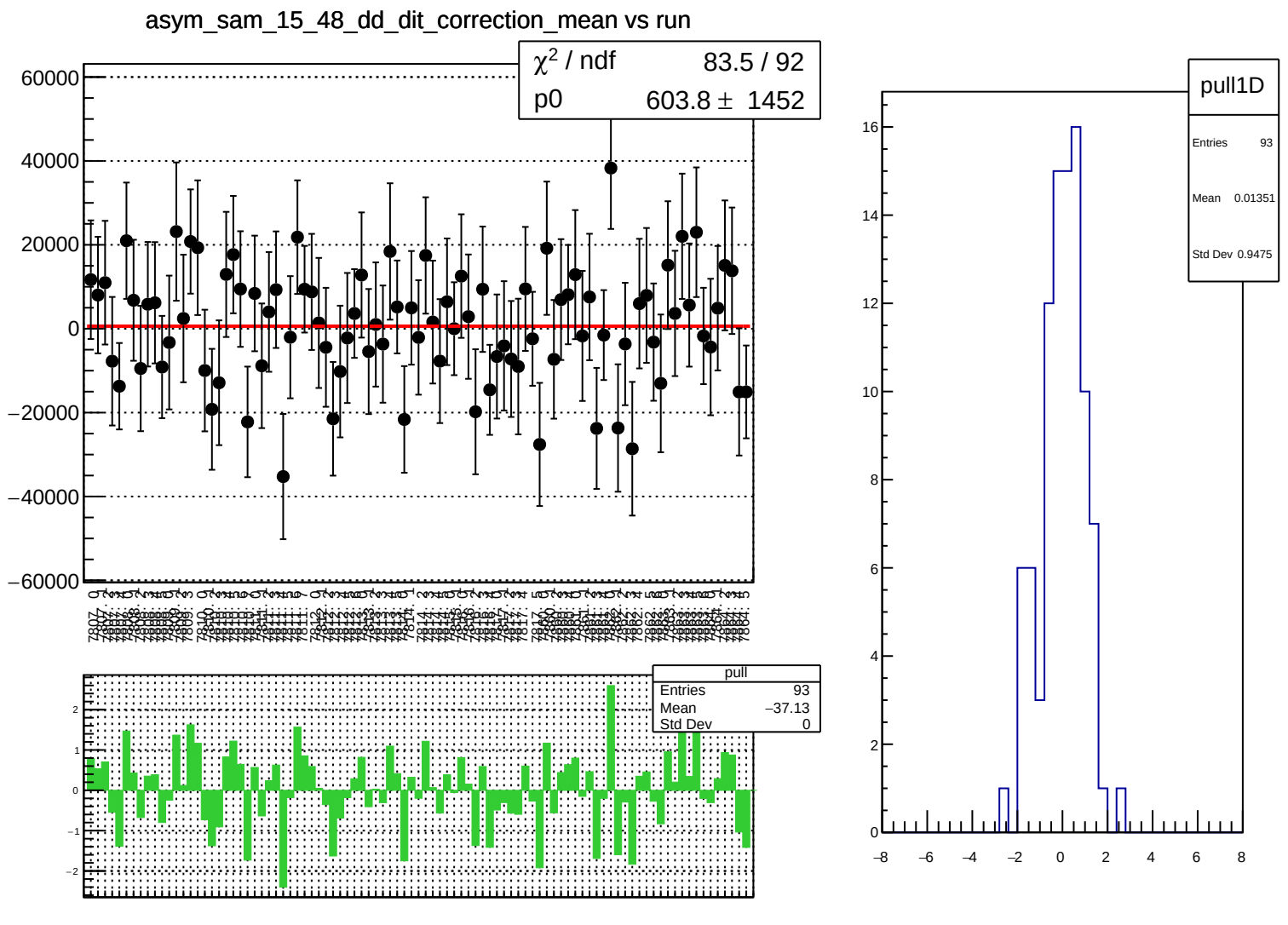

pull1D
Entries 93
Mean 0.01468
Std Dev 0.9463
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

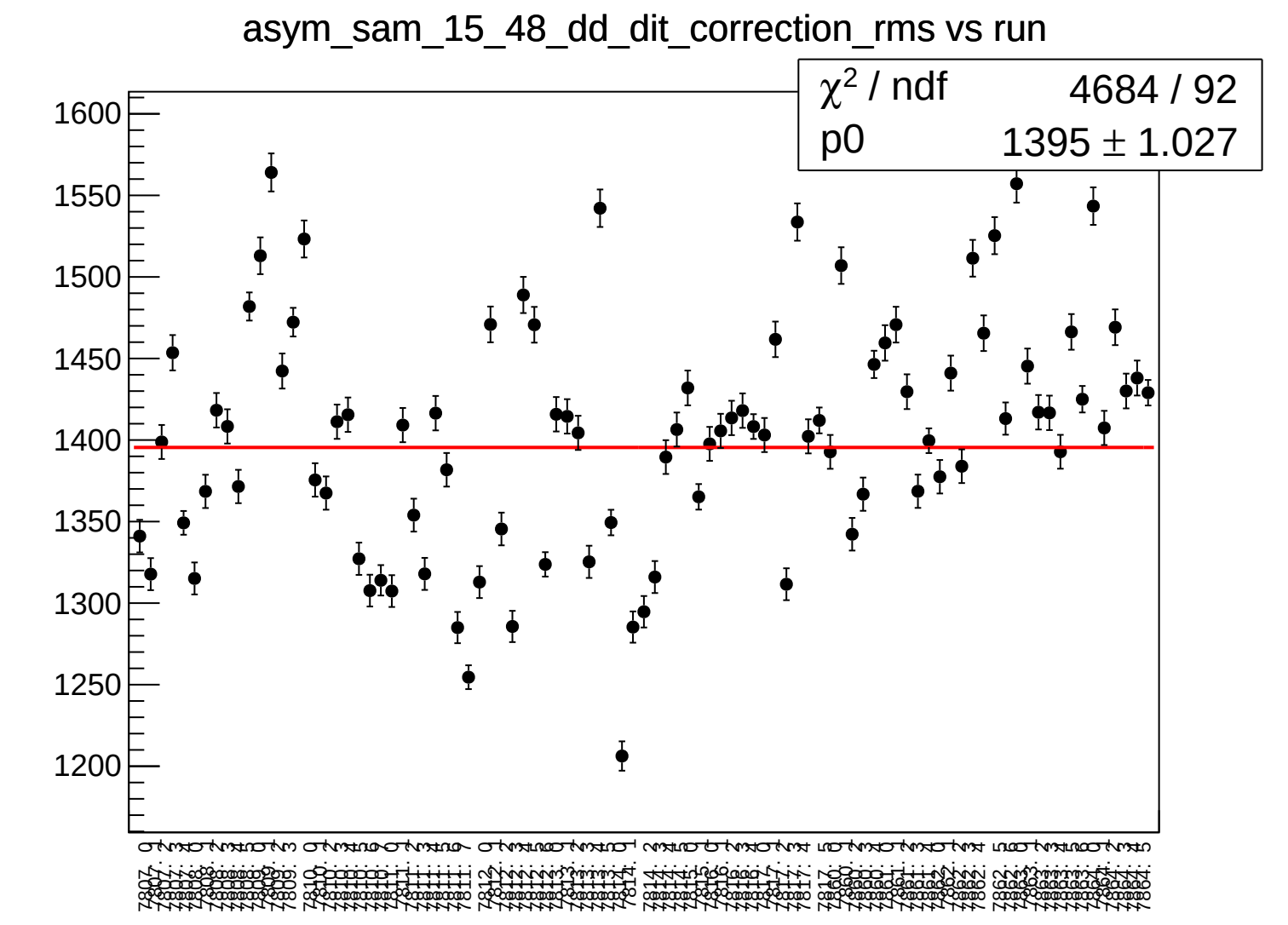

asym_sam_15_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 5481 / 92
p0 1389 ± 1.022
1600
1550
1500
1450
1400
1350
1300
1250
1200

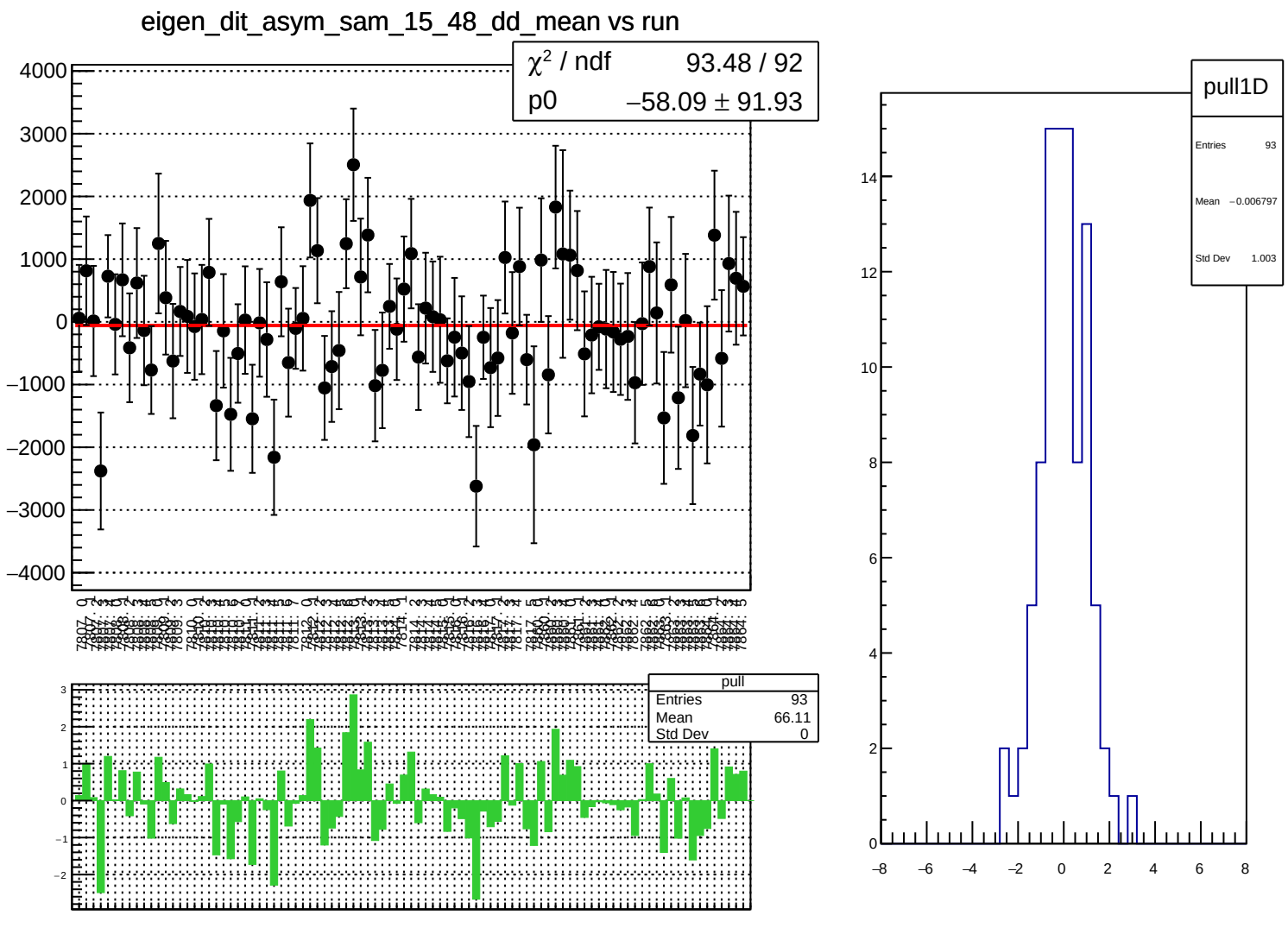

dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 93.48 / 92
p0 −58.09 ± 91.93
pull
Entries 93
Mean 66.12
Std Dev 0

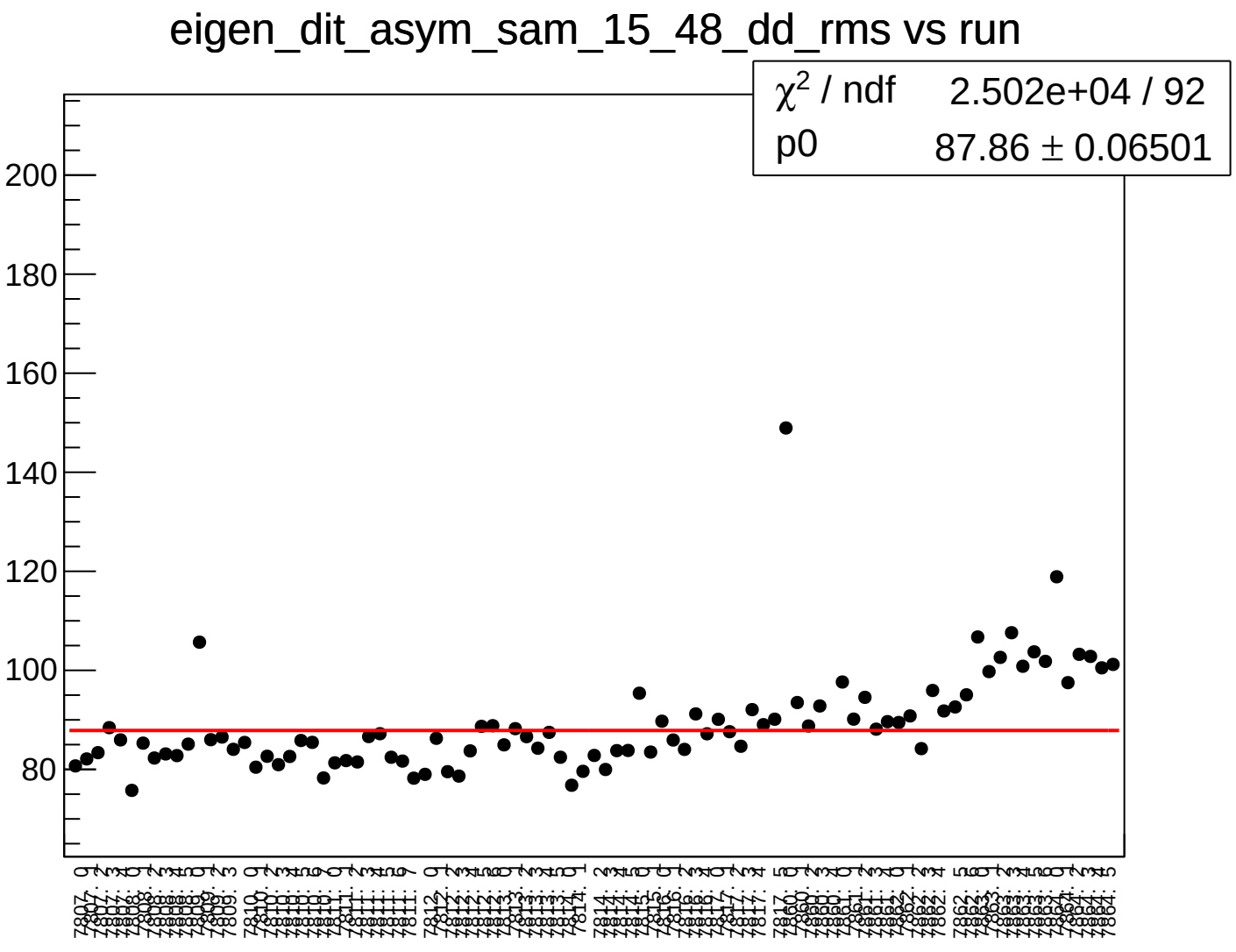

pull1D
Entries 93
Mean −0.006797
Std Dev 1.003

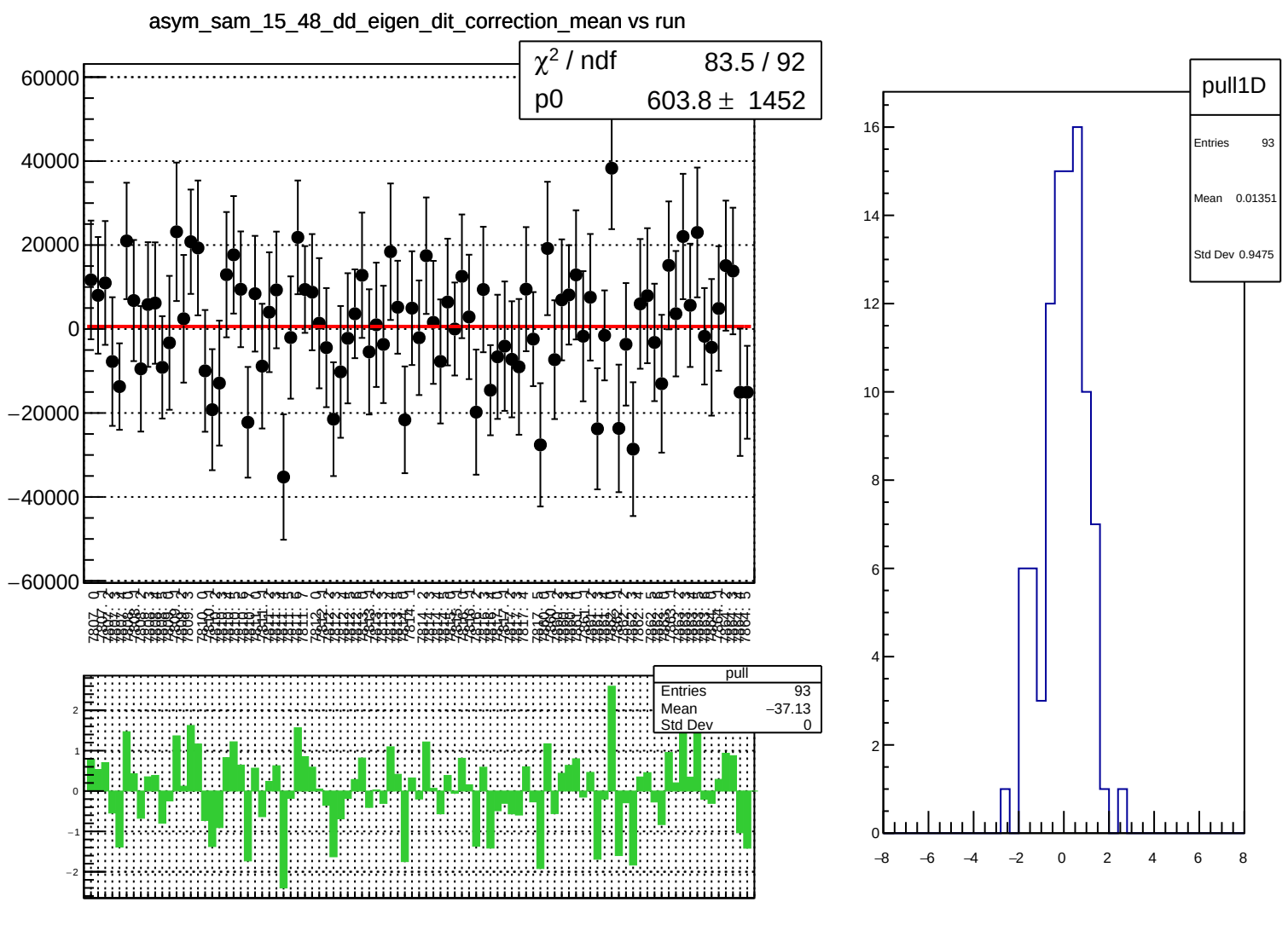

dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 2.502e+04 / 92
p0 87.86 ± 0.06501
200
180
160
140
120
100
80

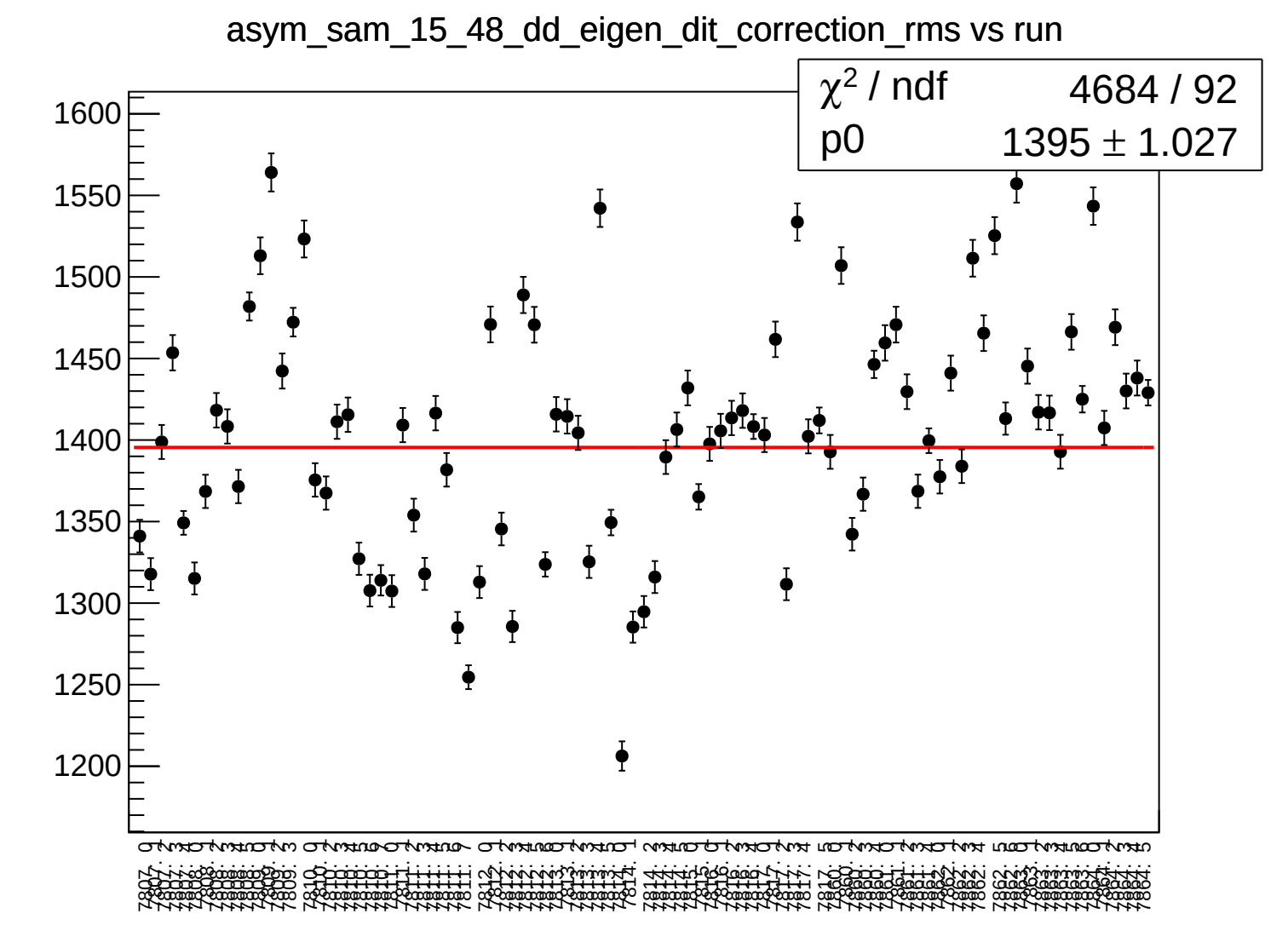

asym_sam_15_48_dd_dit_correction_mean vs run
χ² / ndf 83.5 / 92
p0 603.8 ± 1452
pull
Entries 93
Mean −37.13
Std Dev 0
pull1D
Entries 93
Mean 0.01351
Std Dev 0.9475

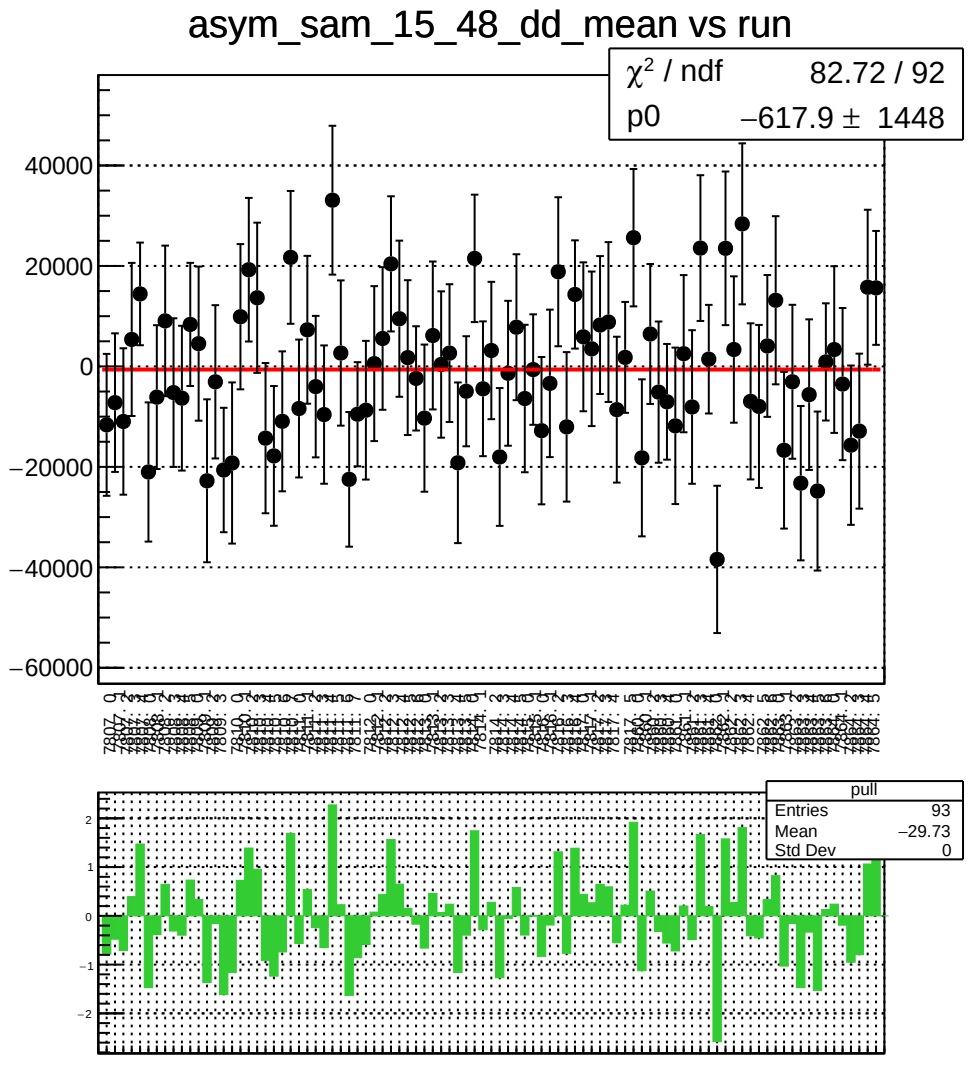

asym_sam_15_48_dd_dit_correction_rms vs run
χ² / ndf 4684 / 92
p0 1395 ± 1.027
1600
1550
1500
1450
1400
1350
1300
1250
1200

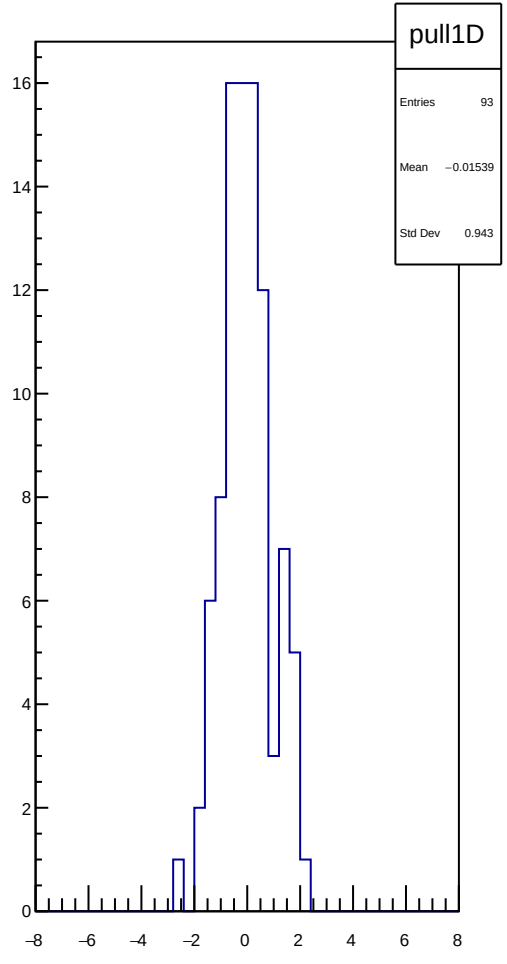

eigen_dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 93.48 / 92
p0 −58.09 ± 91.93
pull
Entries 93
Mean 66.11
Std Dev 0
pull1D
Entries 93
Mean −0.006797
Std Dev 1.003

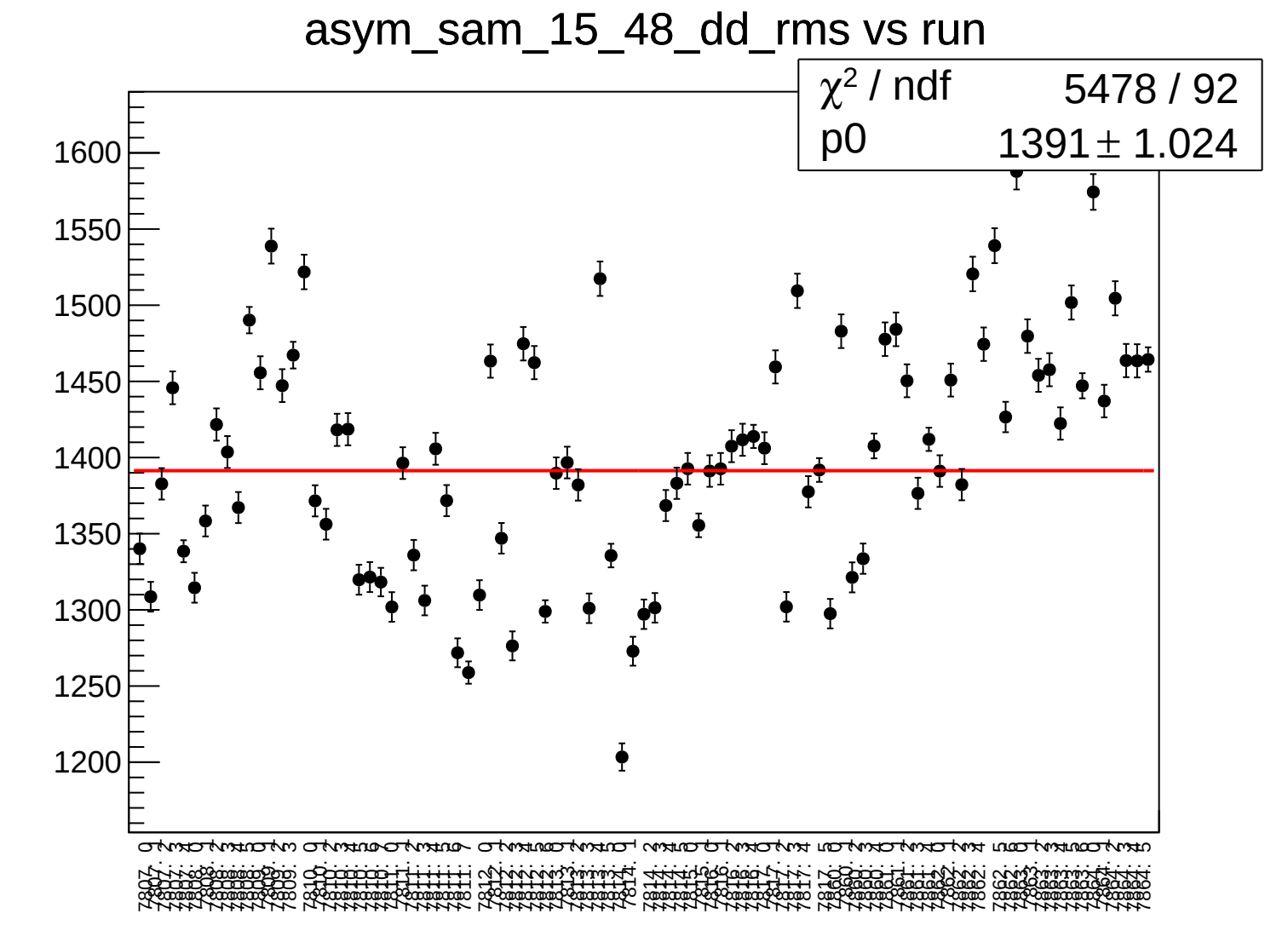

eigen_dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 2.502e+04 / 92
p0 87.86 ± 0.06501
200
180
160
140
120
100
80

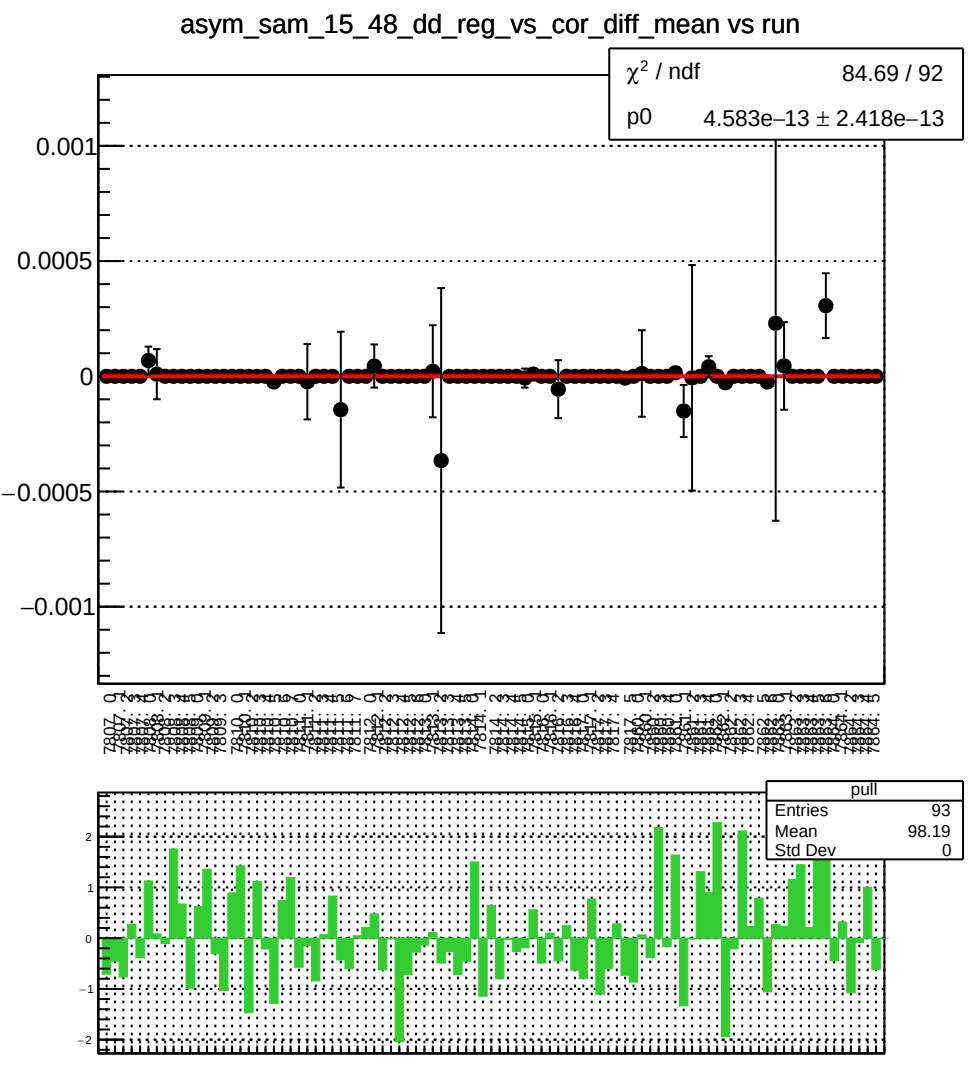

asym_sam_15_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 83.5 / 92
p0 603.8 ± 1452
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −37.13
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.01351
Std Dev 0.9475
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

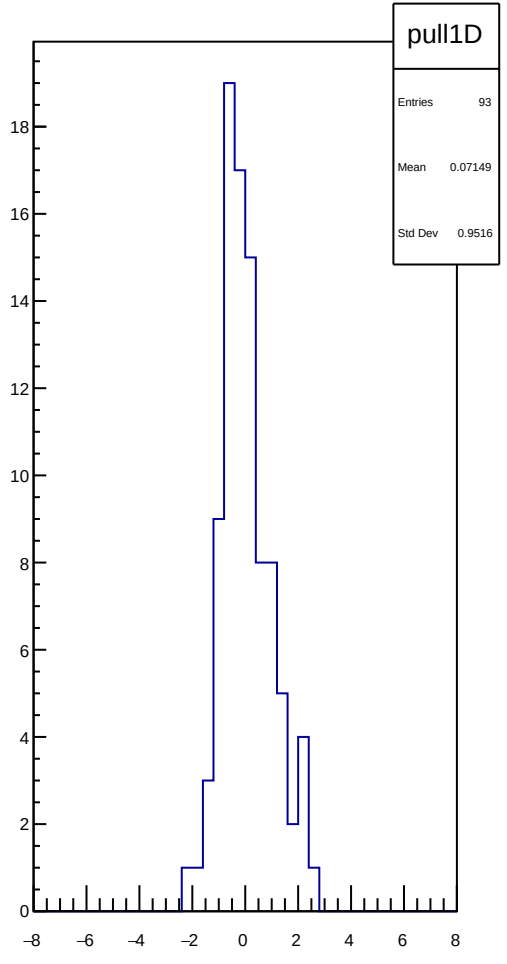

asym_sam_15_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 4684 / 92
p0 1395 ± 1.027
1600
1550
1500
1450
1400
1350
1300
1250
1200

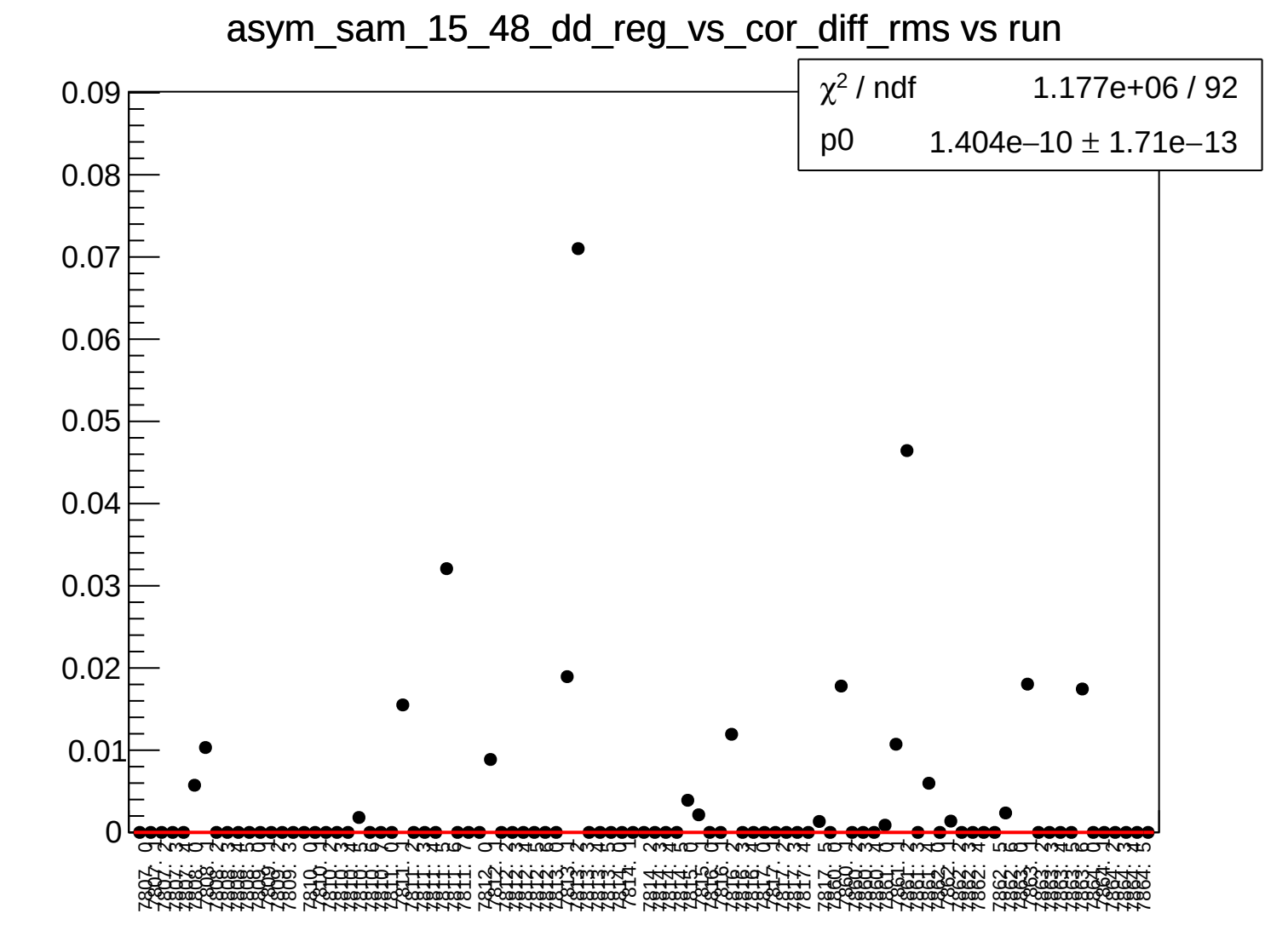

asym_sam_15_48_dd_mean vs run
χ² / ndf 82.72 / 92
p0 −617.9 ± 1448
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −29.73
Std Dev 0
2
1
0
−1
−2

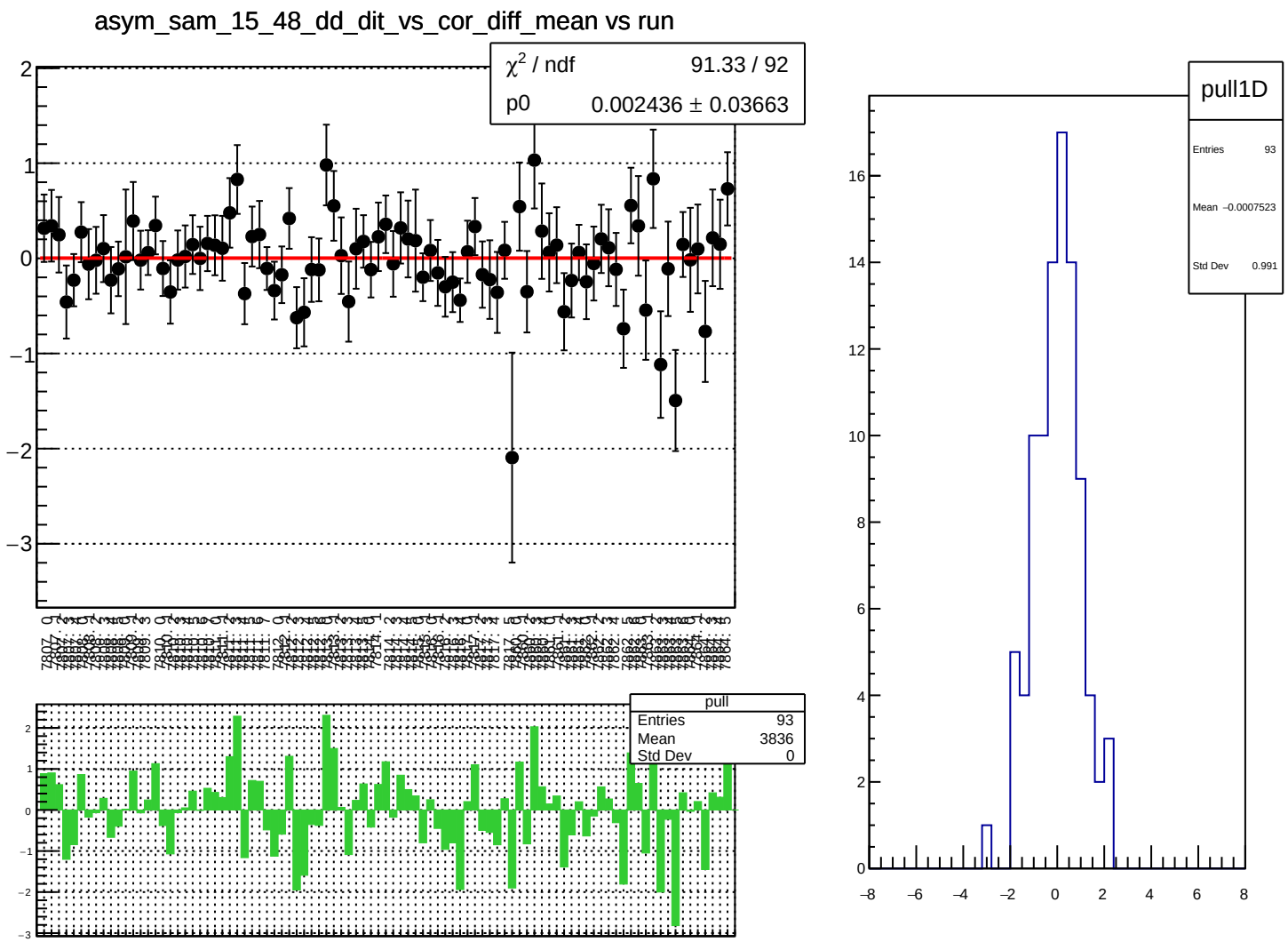

pull1D
Entries 93
Mean −0.01539
Std Dev 0.943
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

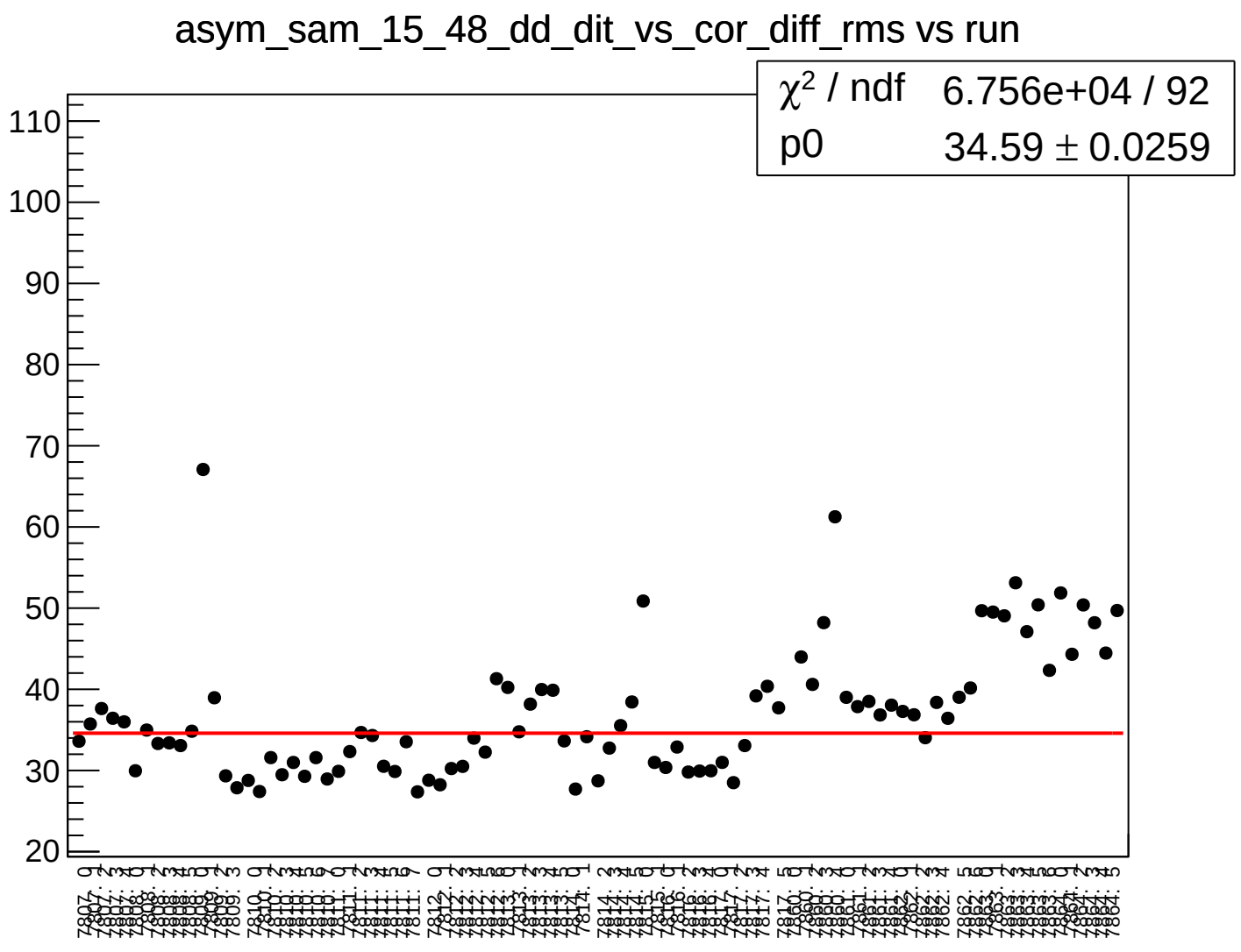

asym_sam_15_48_dd_rms vs run
χ² / ndf 5478 / 92
p0 1391 ± 1.024
1600
1550
1500
1450
1400
1350
1300
1250
1200

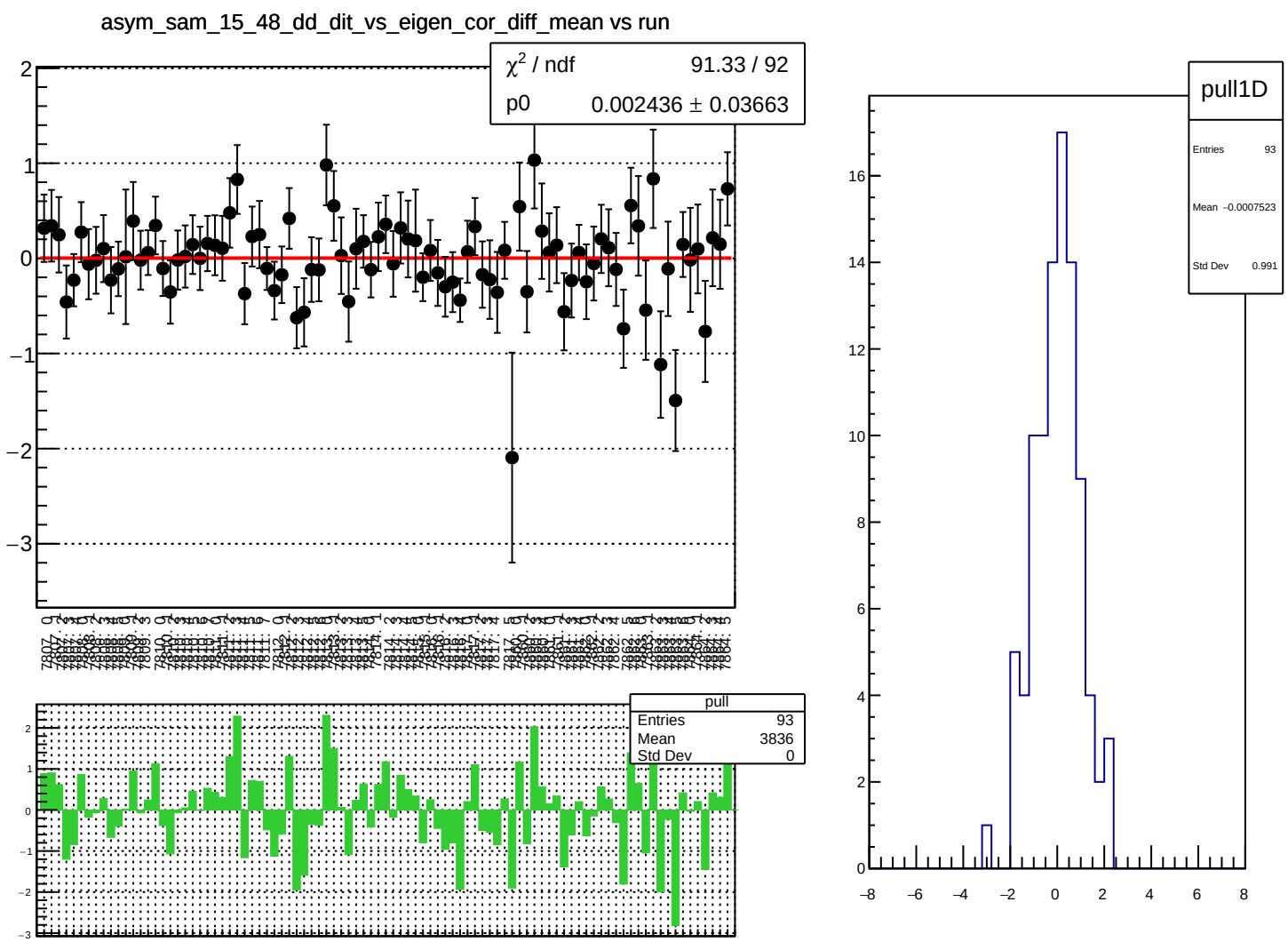

asym_sam_15_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 84.69 / 92
p0 4.583e−13 ± 2.418e−13
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 93
Mean 98.19
Std Dev 0
2
1
0
−1
−2

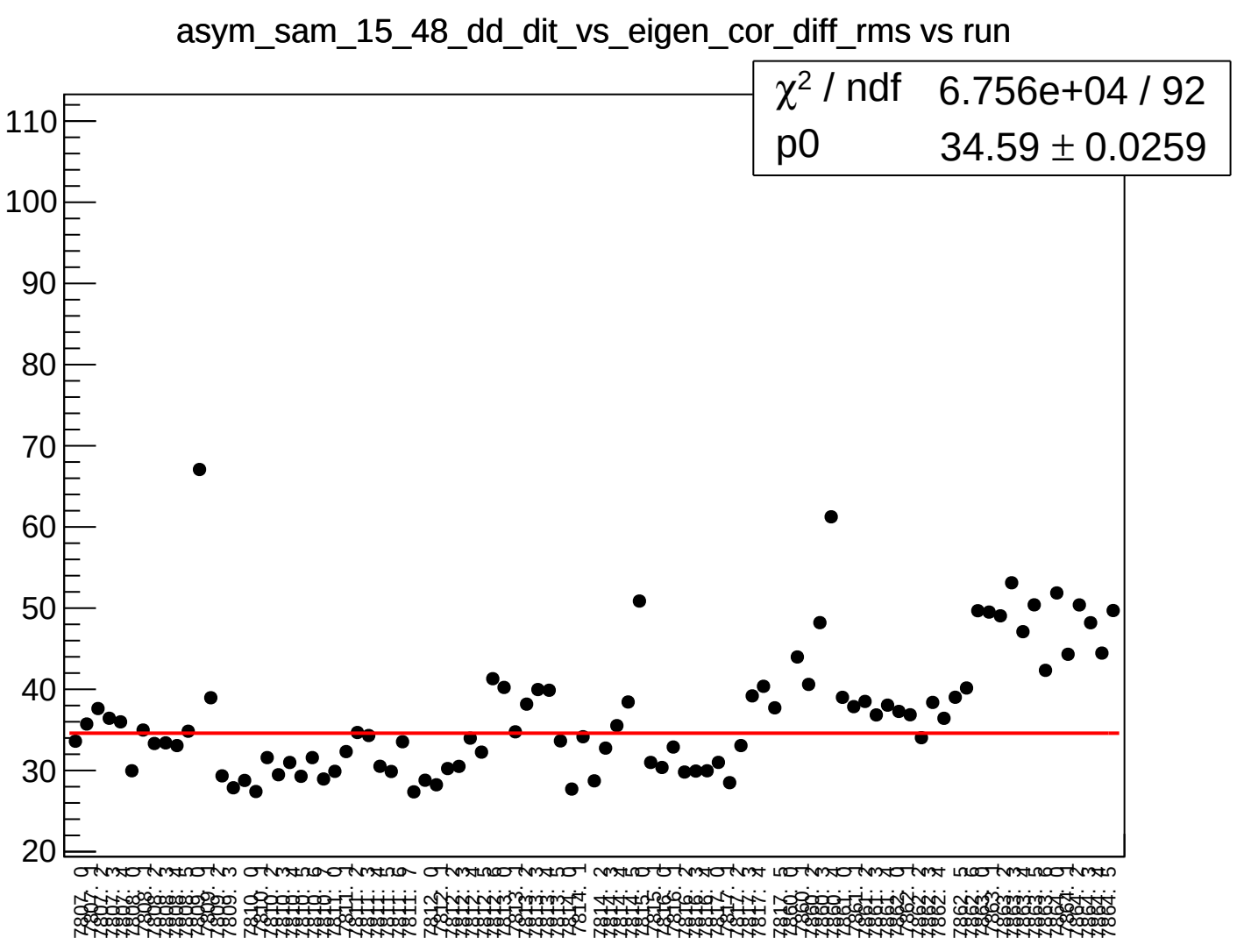

pull1D
Entries 93
Mean 0.07149
Std Dev 0.9516
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

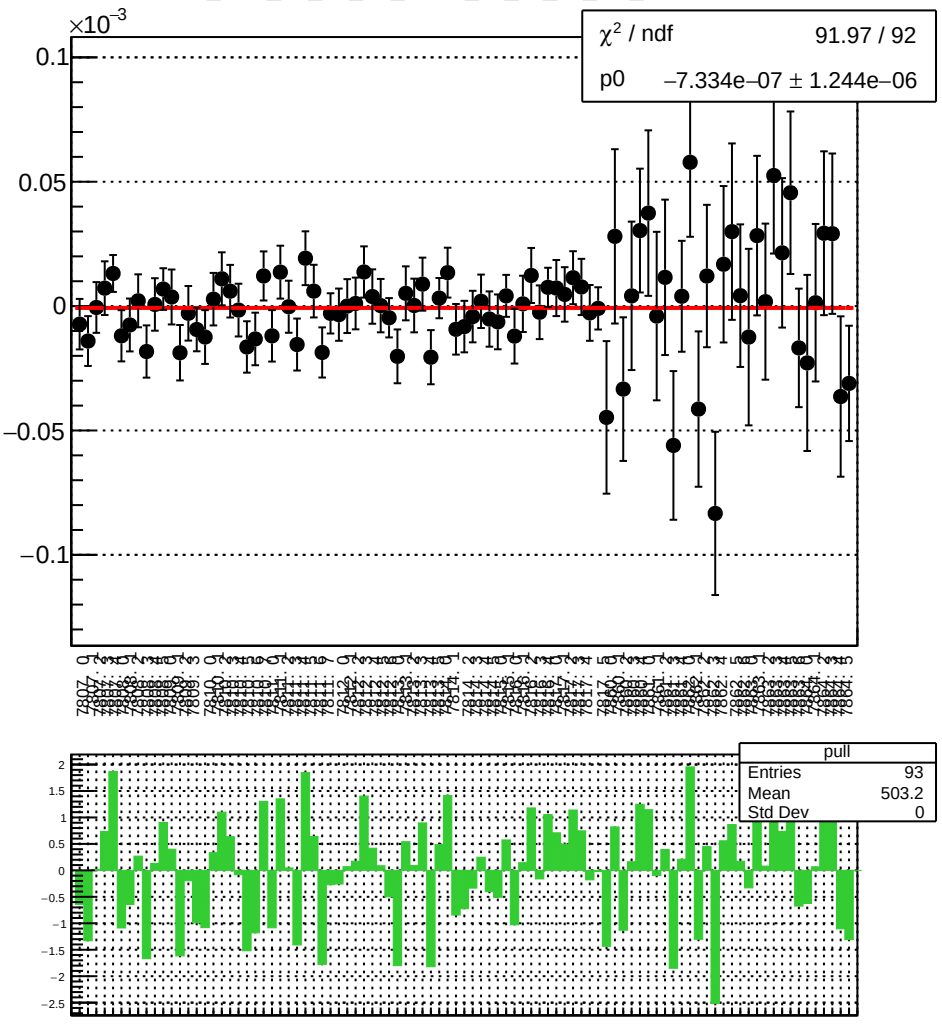

asym_sam_15_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.177e+06 / 92
p0 1.404e−10 ± 1.71e−13
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

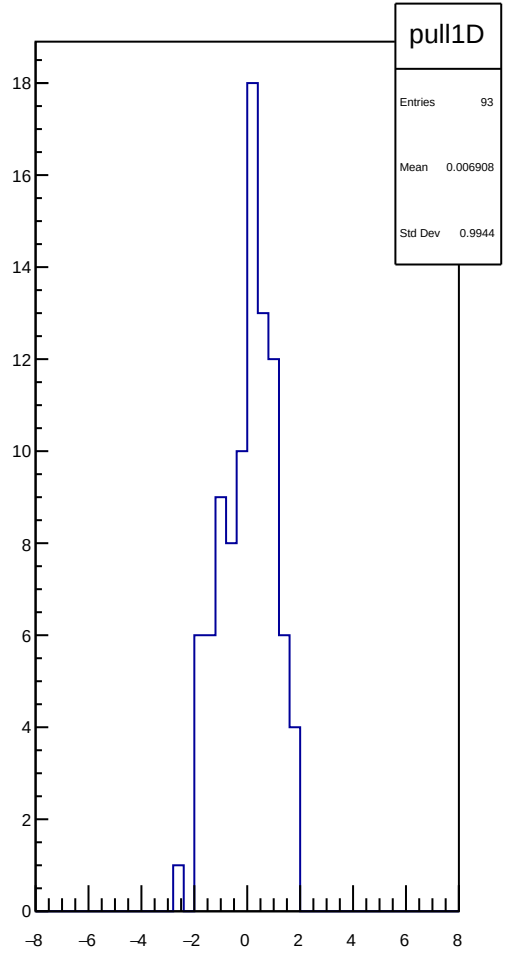

asym_sam_15_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 91.33 / 92
p0 0.002436 ± 0.03663
pull
Entries 93
Mean 3836
Std Dev 0
pull1D
Entries 93
Mean −0.0007523
Std Dev 0.991

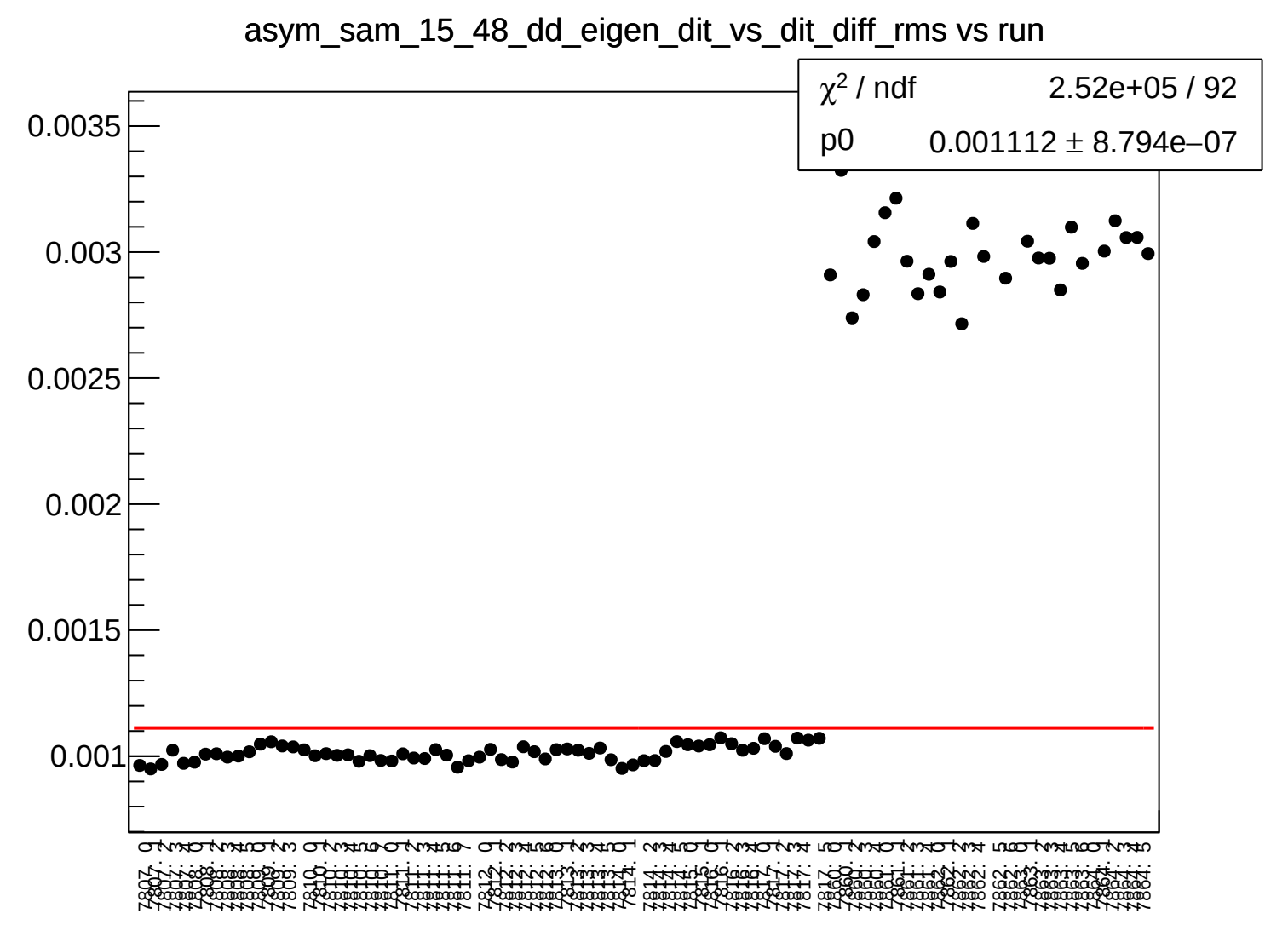

asym_sam_15_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.756e+04 / 92
p0 34.59 ± 0.0259
110
100
90
80
70
60
50
40
30
20

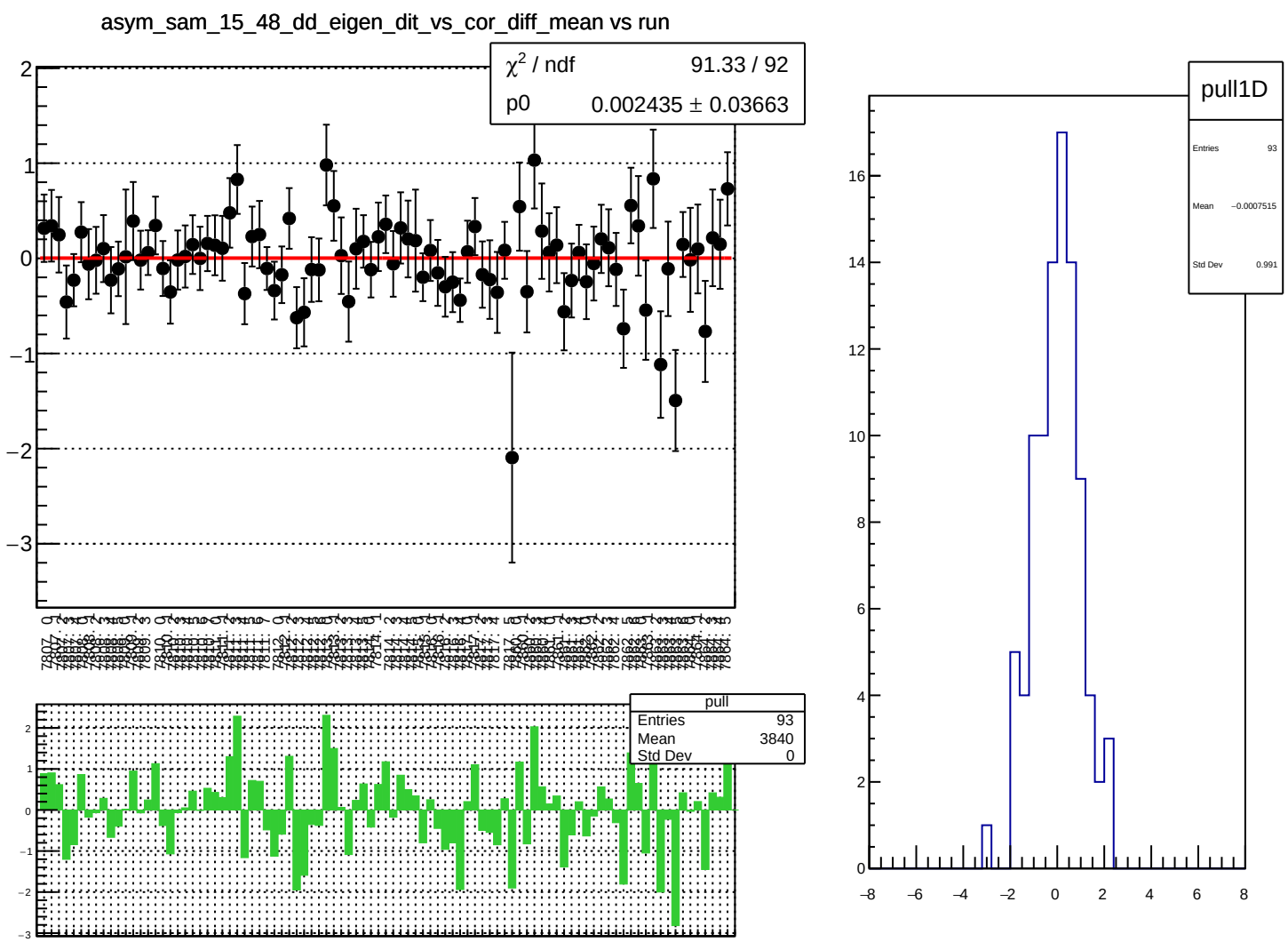

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.33 / 92
p0 0.002436 ± 0.03663
pull
Entries 93
Mean 3836
Std Dev 0
pull1D
Entries 93
Mean −0.0007523
Std Dev 0.991

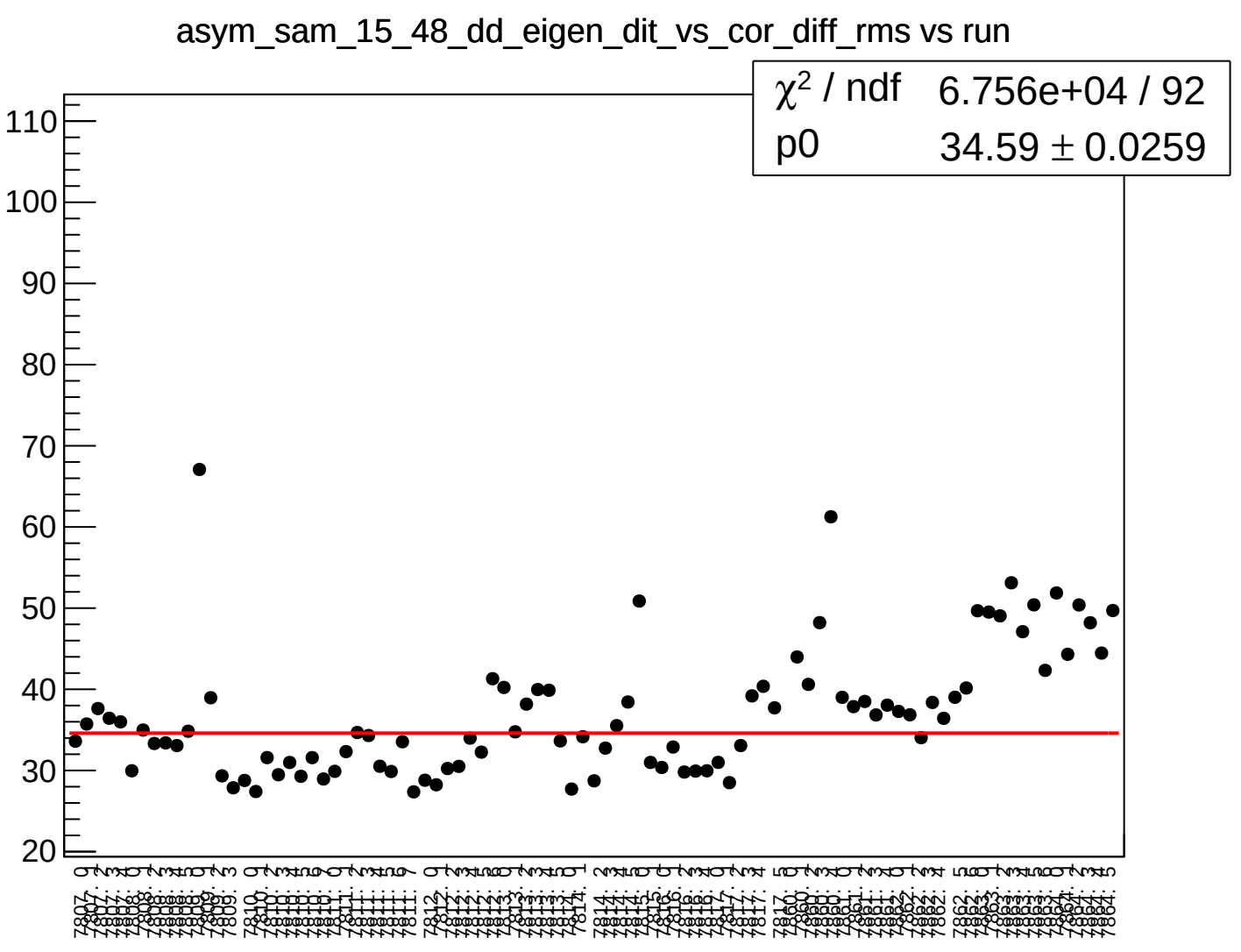

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.756e+04 / 92
p0 34.59 ± 0.0259
110
100
90
80
70
60
50
40
30
20

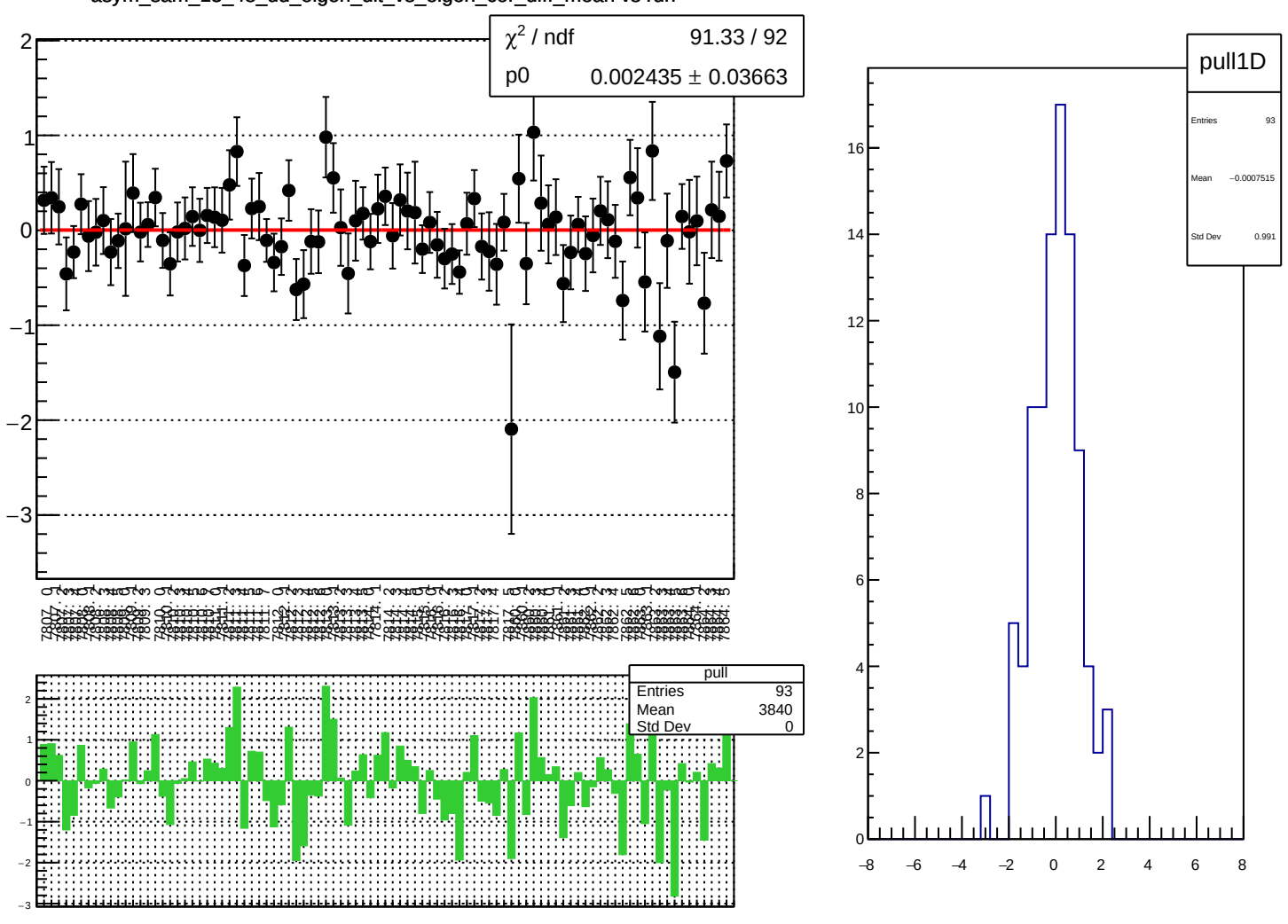

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.97 / 92
p0 −7.334e−07 ± 1.244e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 93
Mean 503.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

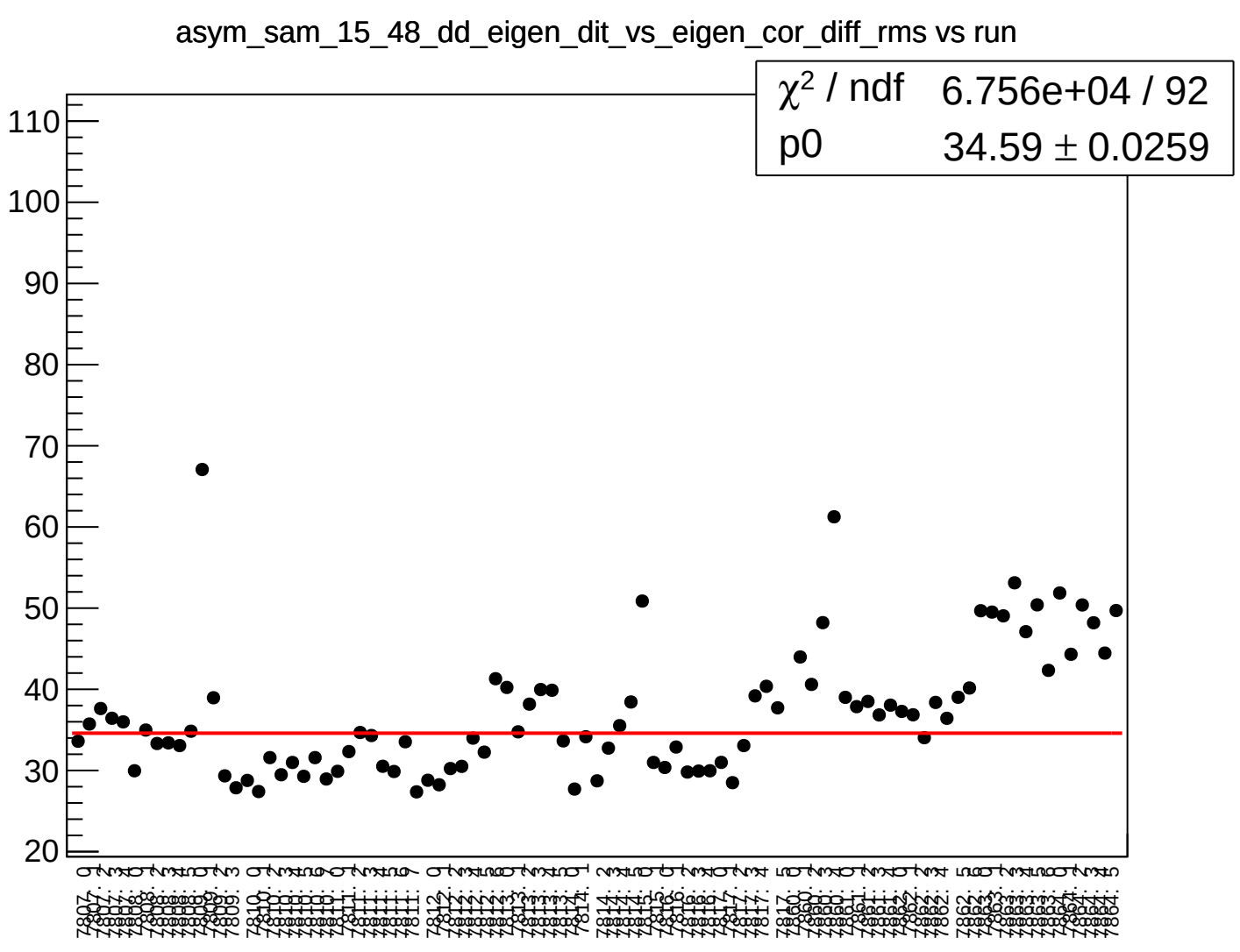

pull1D
Entries 93
Mean 0.006908
Std Dev 0.9944
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

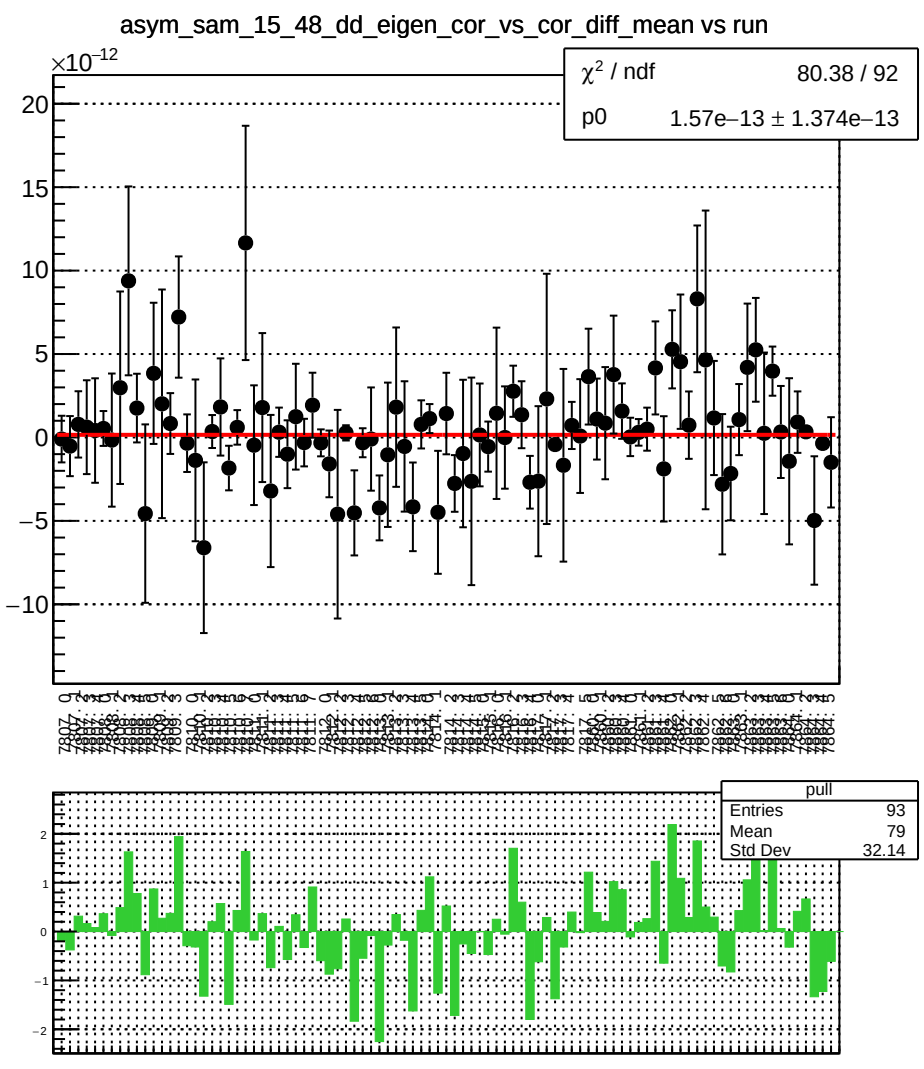

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.52e+05 / 92
p0 0.001112 ± 8.794e−07
0.0035
0.003
0.0025
0.002
0.0015
0.001

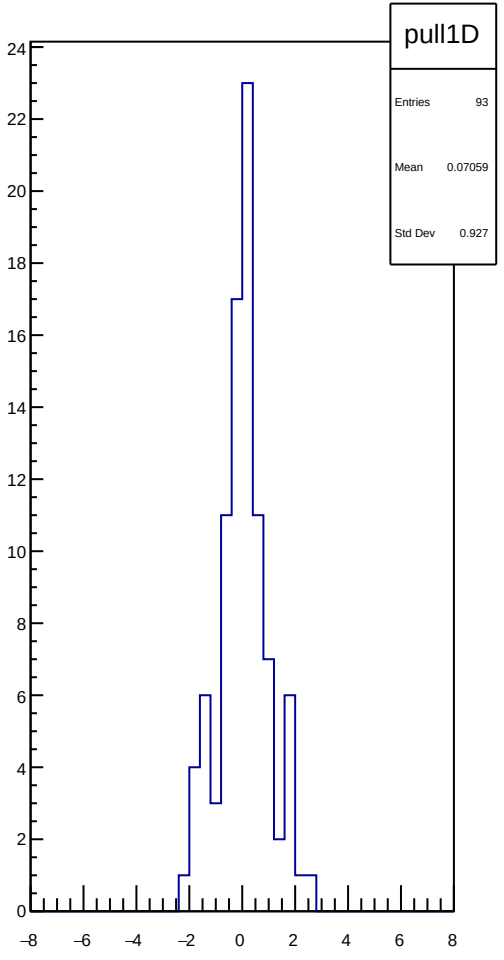

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.33 / 92
p0 0.002435 ± 0.03663
pull
Entries 93
Mean 3840
Std Dev 0
pull1D
Entries 93
Mean −0.0007515
Std Dev 0.991

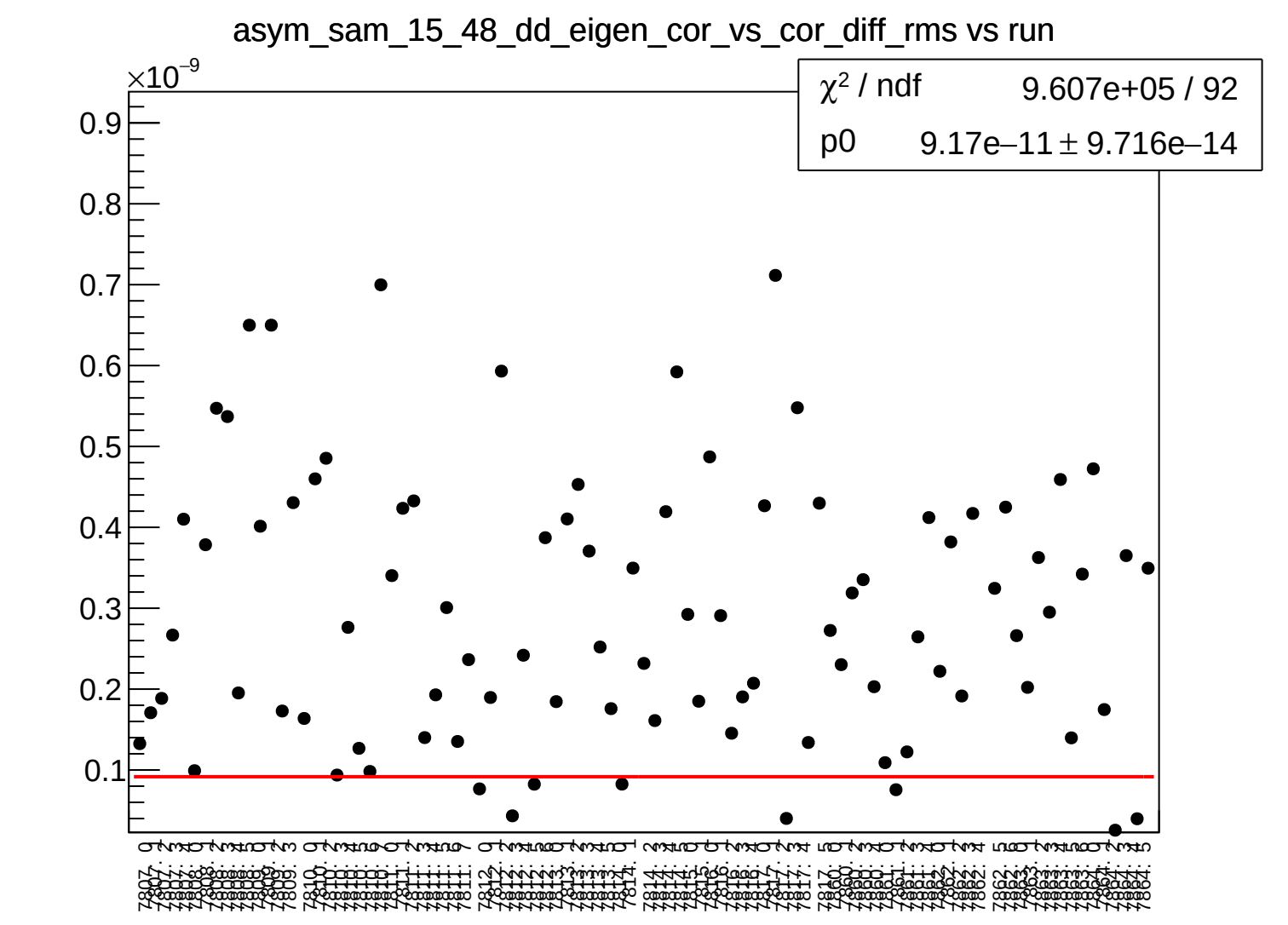

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.756e+04 / 92
p0 34.59 ± 0.0259
110
100
90
80
70
60
50
40
30
20

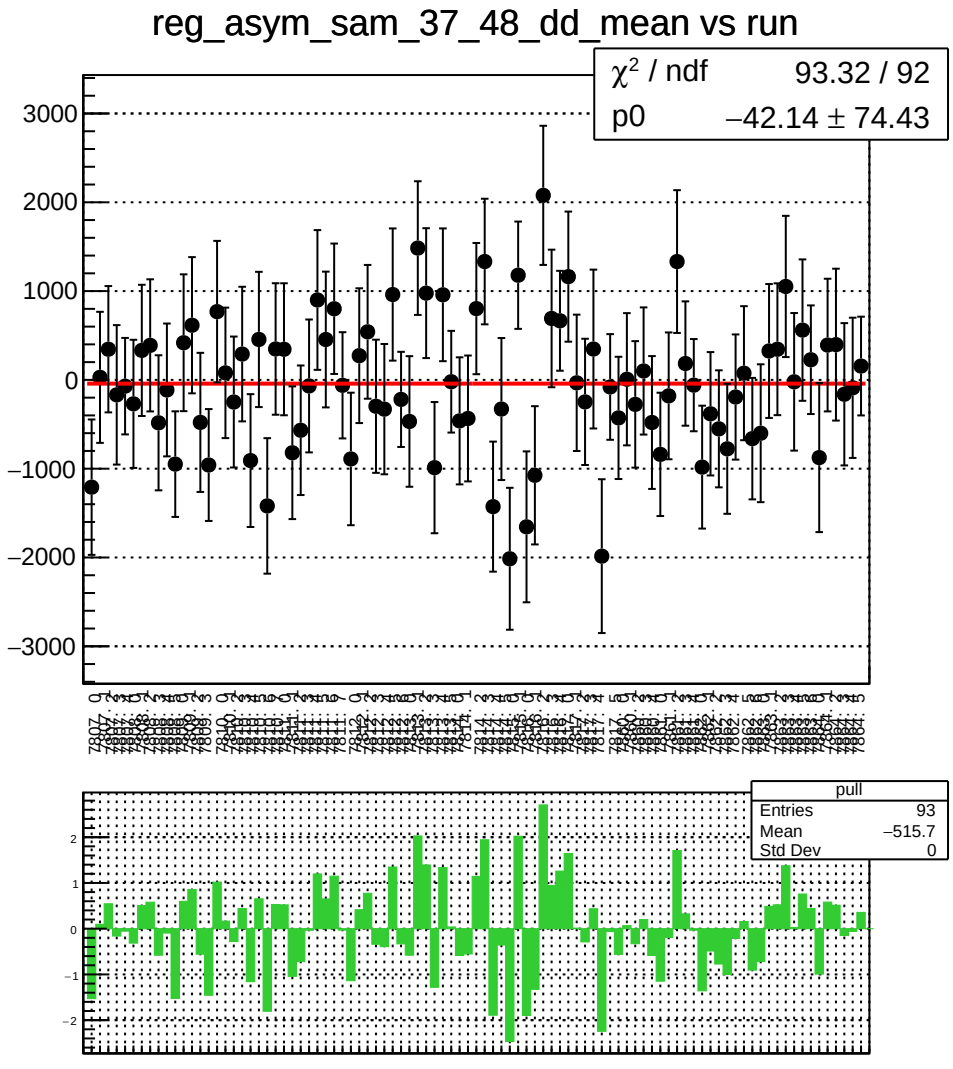

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.33 / 92
p0 0.002435 ± 0.03663
pull
Entries 93
Mean 3840
Std Dev 0
pull1D
Entries 93
Mean −0.0007515
Std Dev 0.991

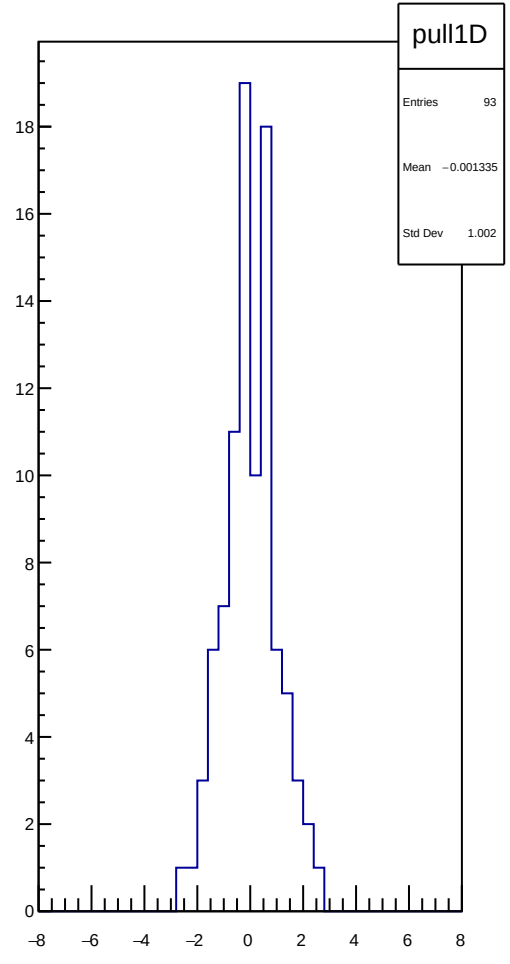

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.756e+04 / 92
p0 34.59 ± 0.0259
110
100
90
80
70
60
50
40
30
20

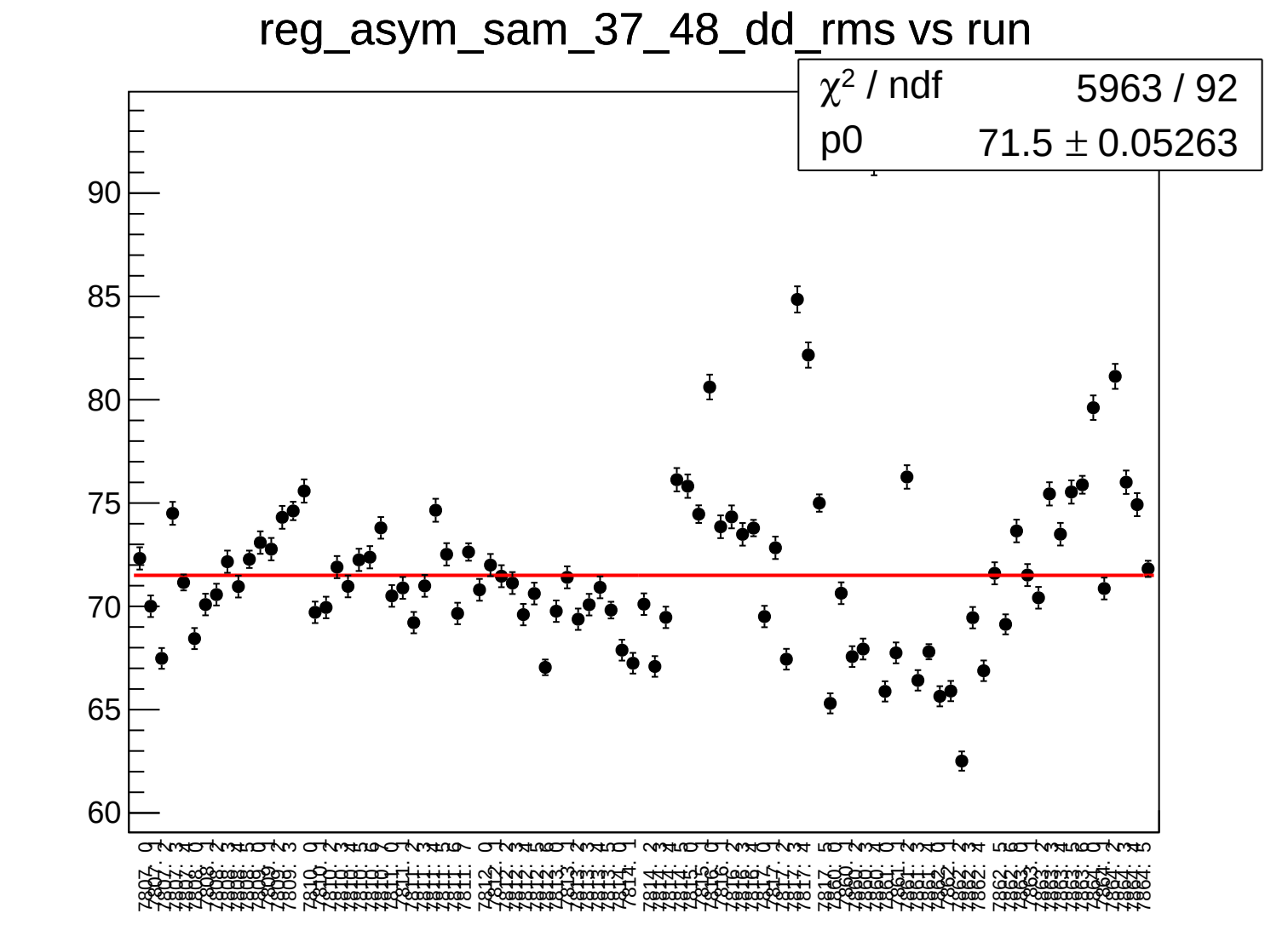

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.38 / 92
p0 1.57e−13 ± 1.374e−13
pull
Entries 93
Mean 79
Std Dev 32.14

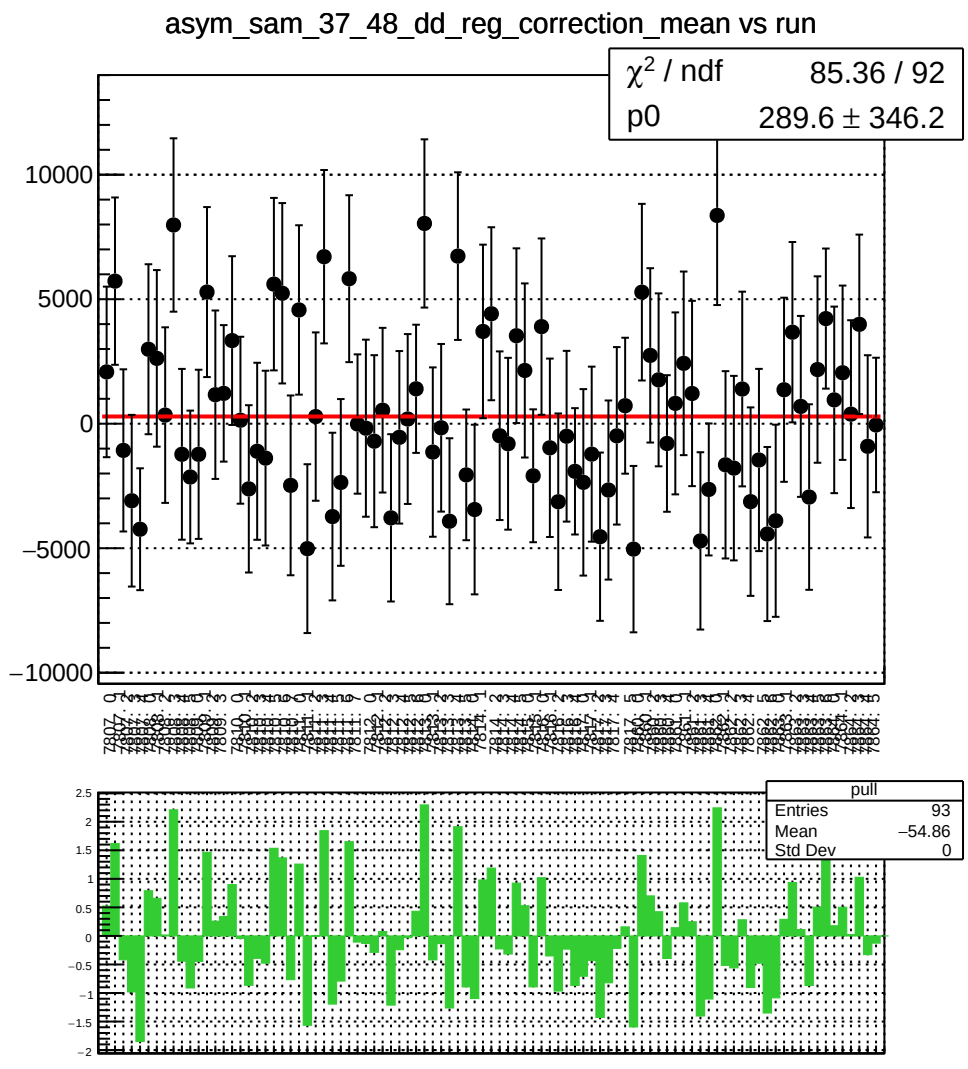

pull1D
Entries 93
Mean 0.07059
Std Dev 0.927

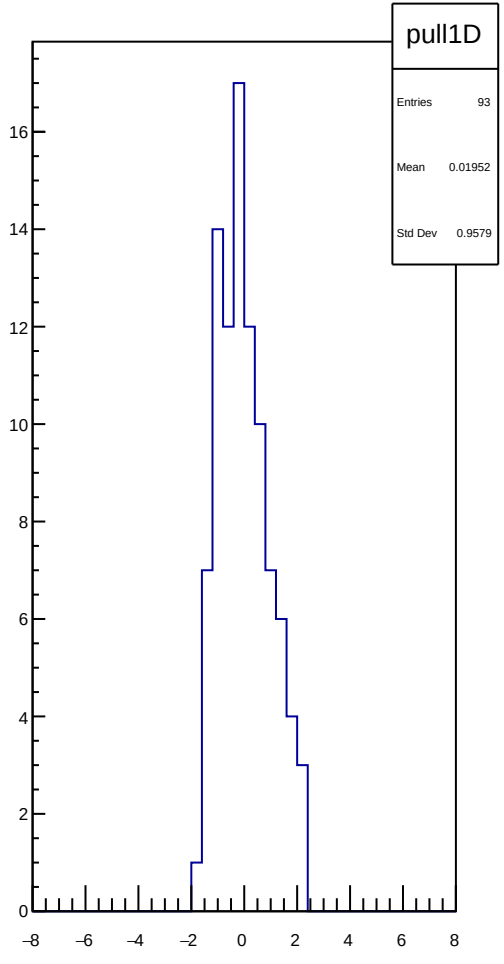

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.607e+05 / 92
p0 9.17e−11 ± 9.716e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

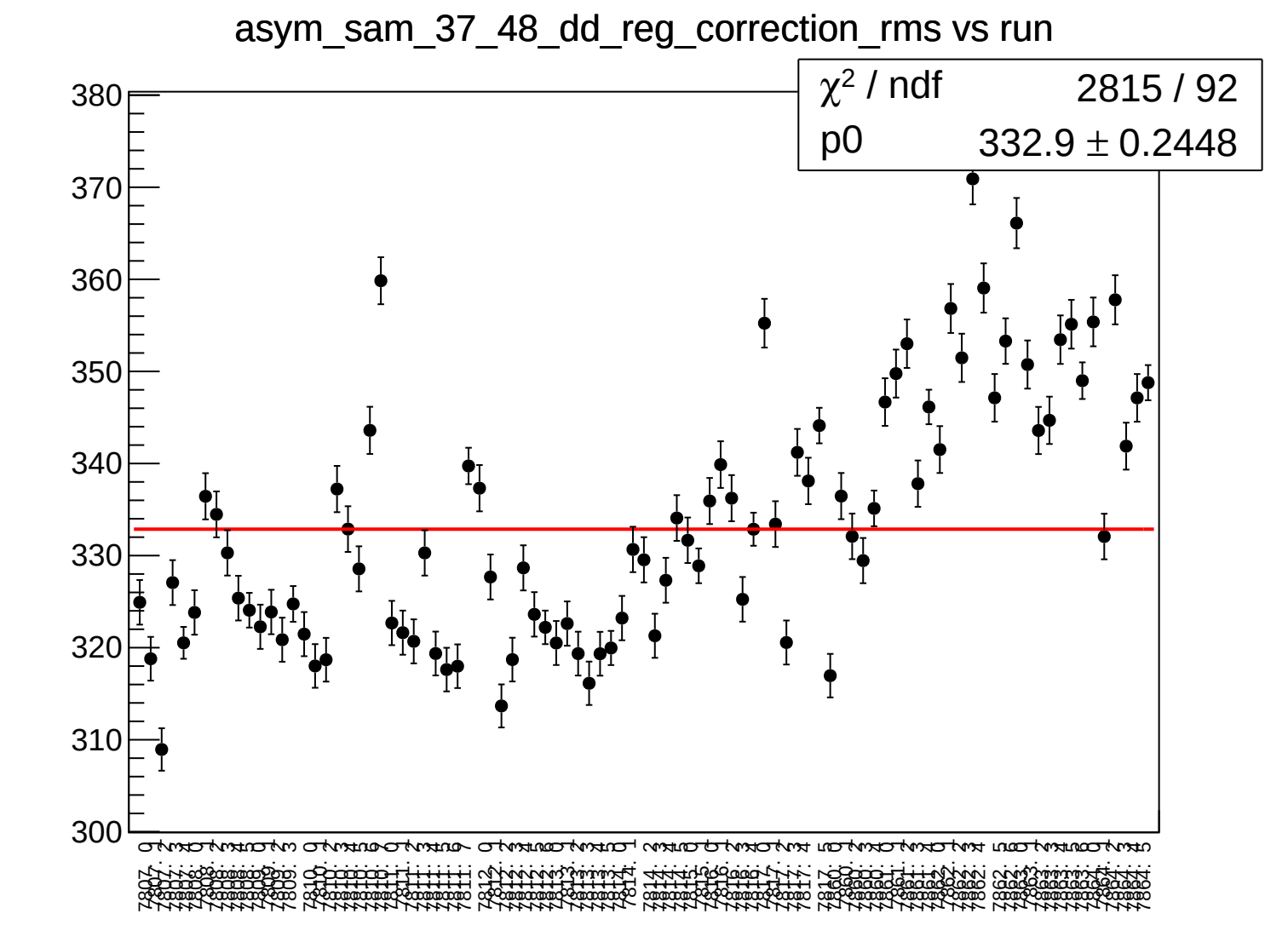

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 93.32 / 92
p0 −42.14 ± 74.43
pull
Entries 93
Mean −515.7
Std Dev 0

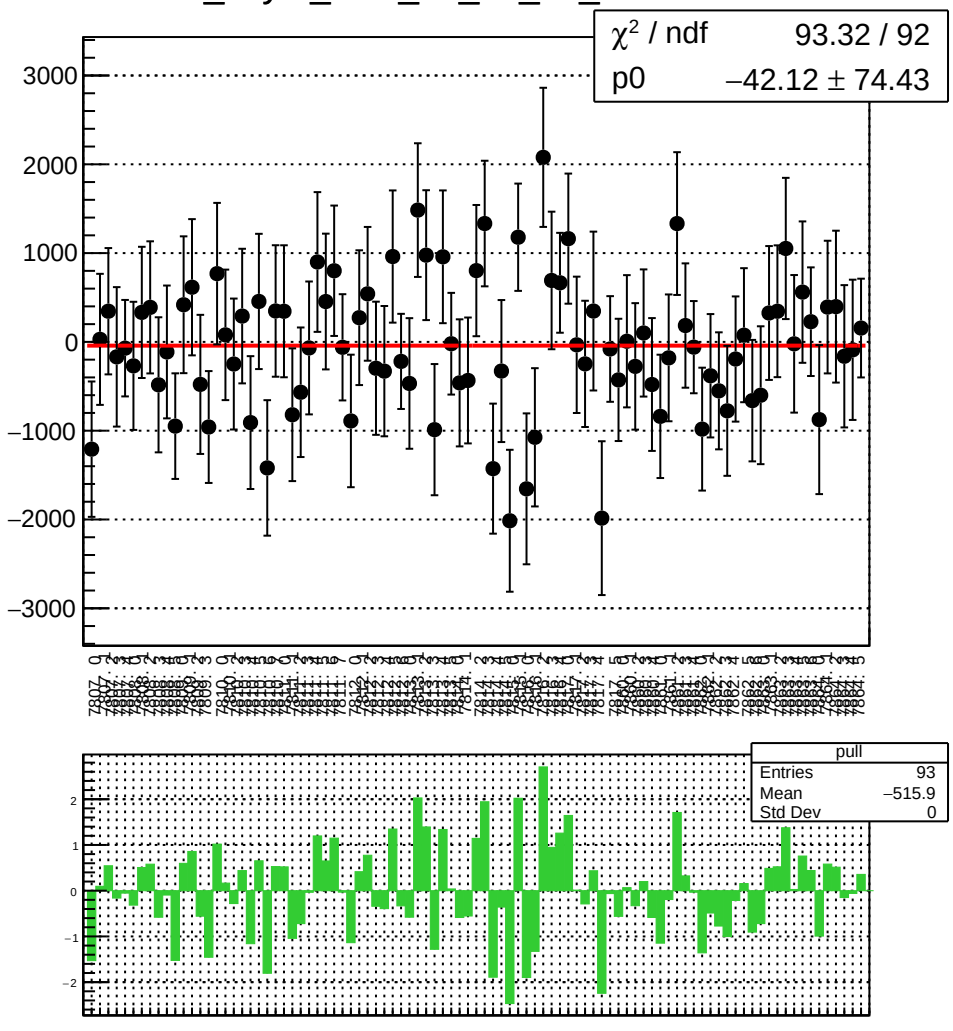

pull1D
Entries 93
Mean −0.001335
Std Dev 1.002

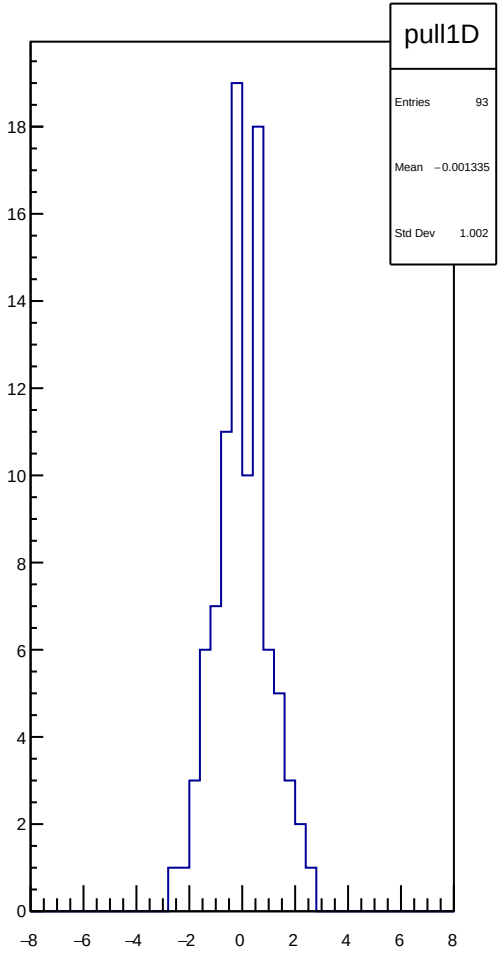

reg_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 5963 / 92
p0 71.5 ± 0.05263
90
85
80
75
70
65
60

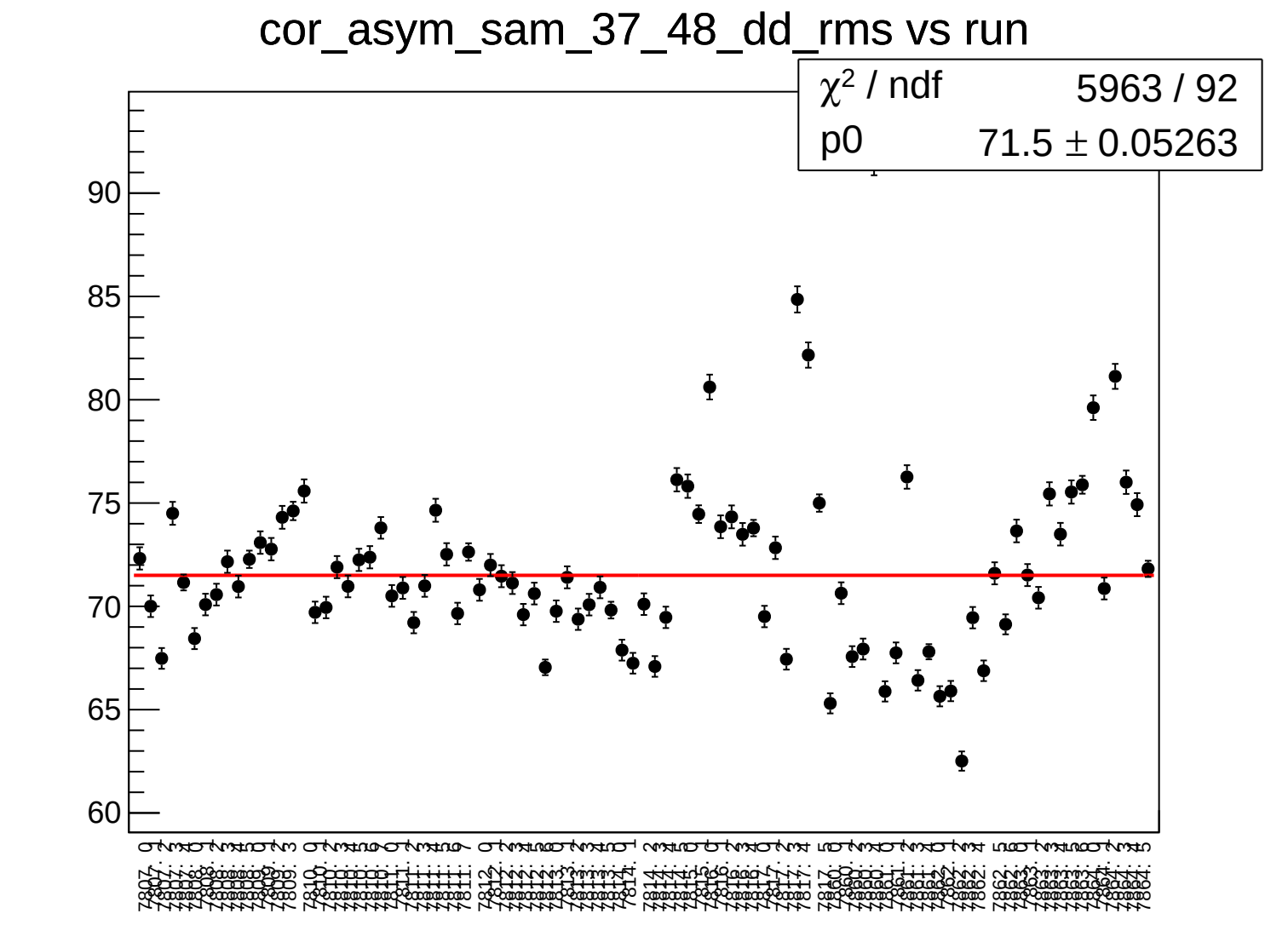

asym_sam_37_48_dd_reg_correction_mean vs run
χ² / ndf 85.36 / 92
p0 289.6 ± 346.2
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −54.86
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

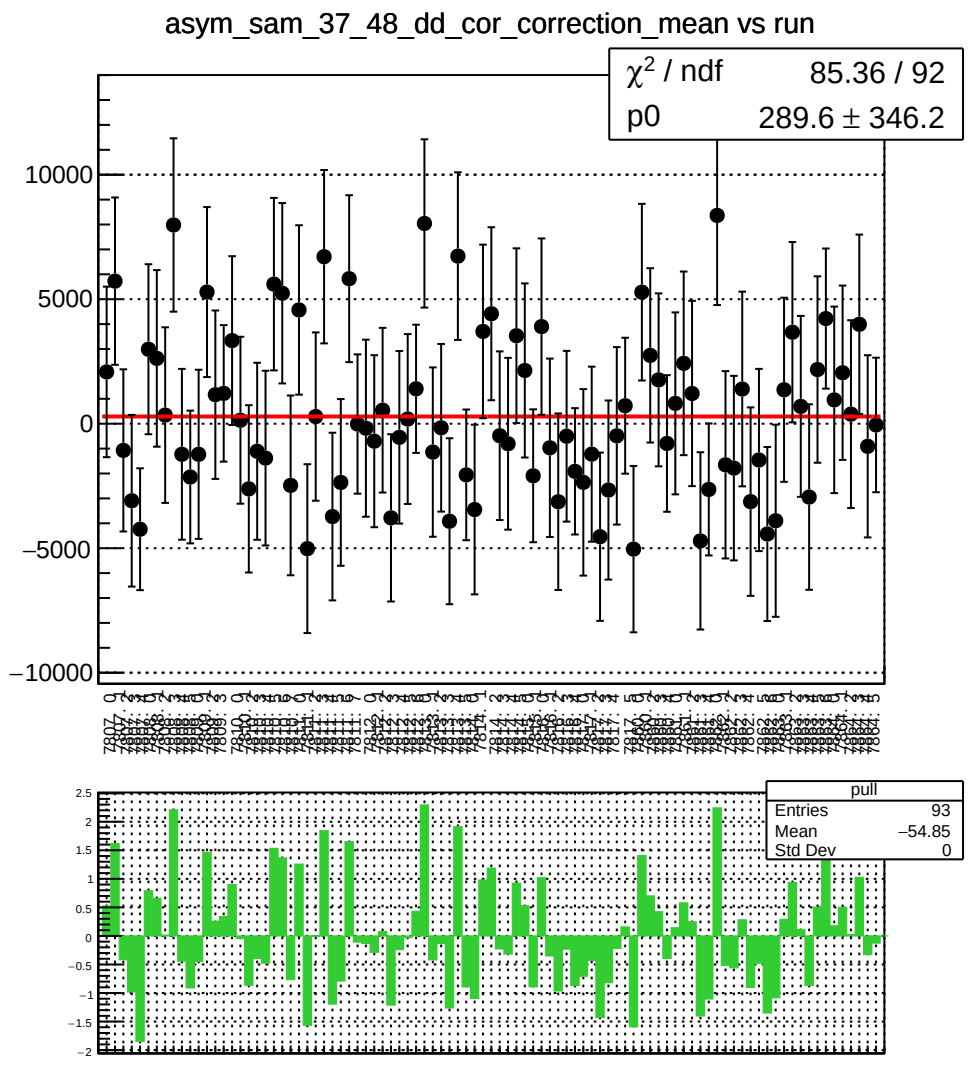

pull1D
Entries 93
Mean 0.01952
Std Dev 0.9579
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

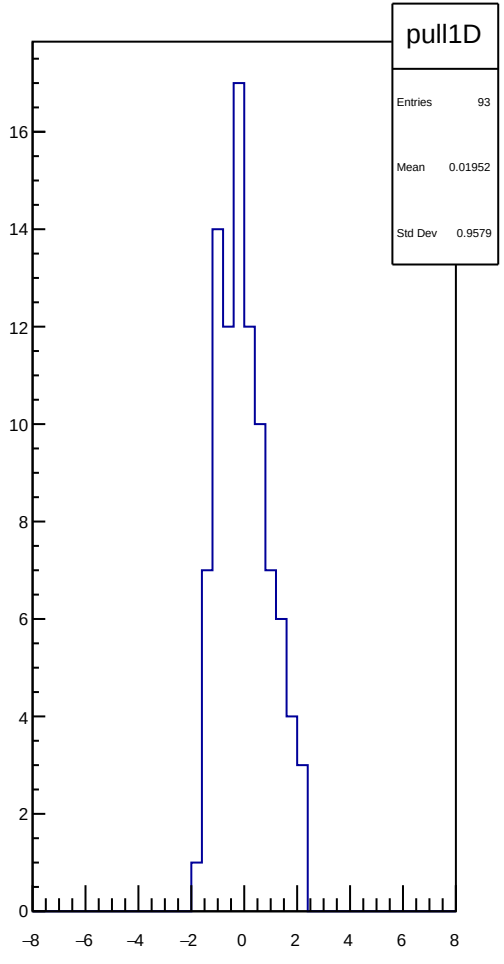

asym_sam_37_48_dd_reg_correction_rms vs run
χ² / ndf 2815 / 92
p0 332.9 ± 0.2448
380
370
360
350
340
330
320
310
300


cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 93.32 / 92
p0 −42.12 ± 74.43
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean −515.9
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 93
Mean −0.001335
Std Dev 1.002
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 5963 / 92
p0 71.5 ± 0.05263
90
85
80
75
70
65
60


asym_sam_37_48_dd_cor_correction_mean vs run
χ² / ndf 85.36 / 92
p0 289.6 ± 346.2
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −54.85
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 93
Mean 0.01952
Std Dev 0.9579
16
14
12
10
8
6
4
2
0
−8
−6
−4
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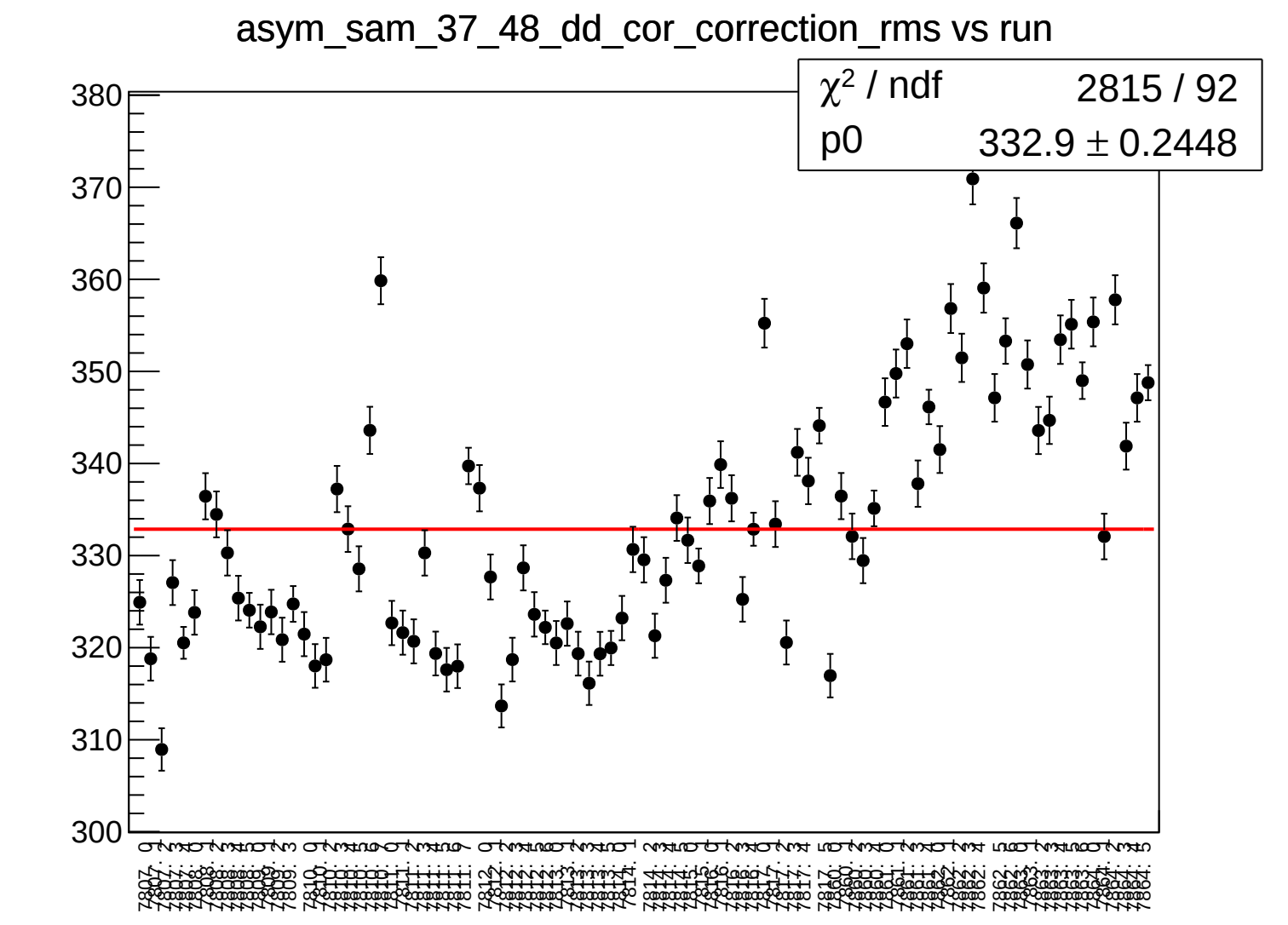
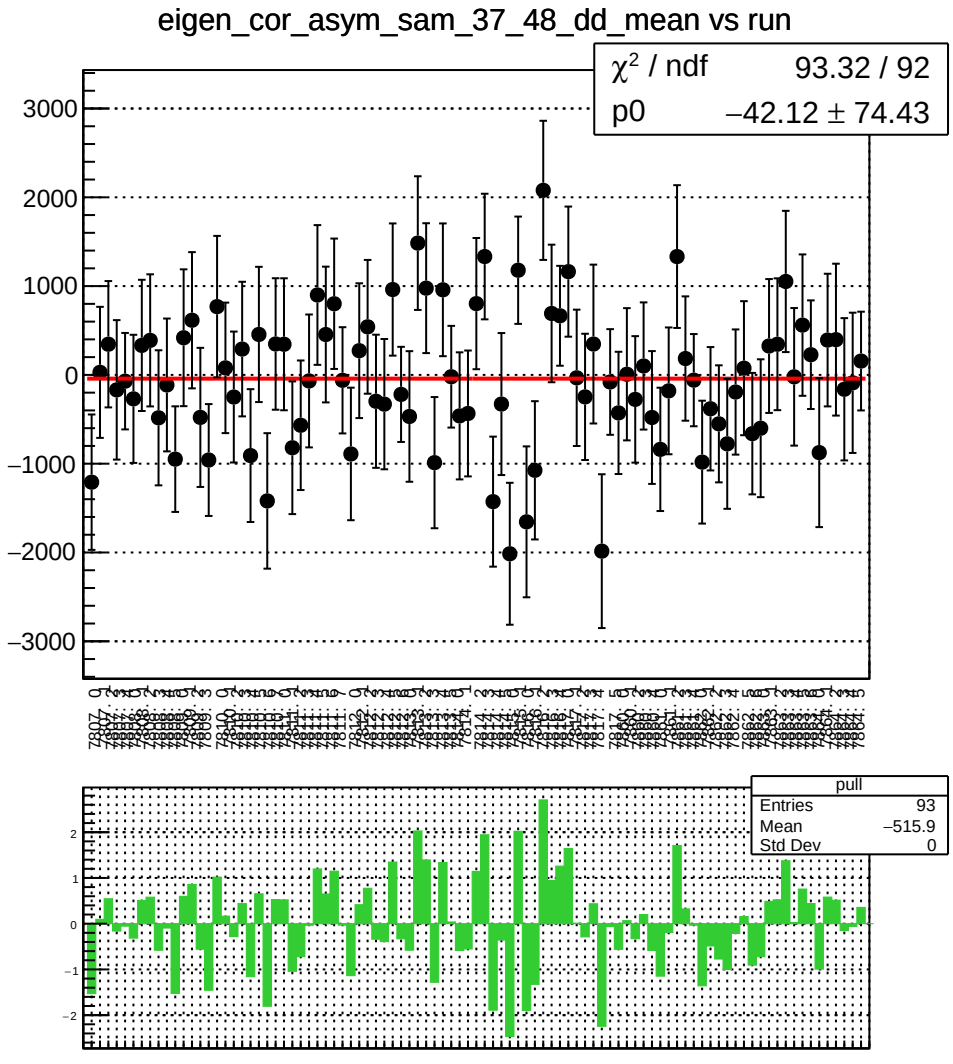
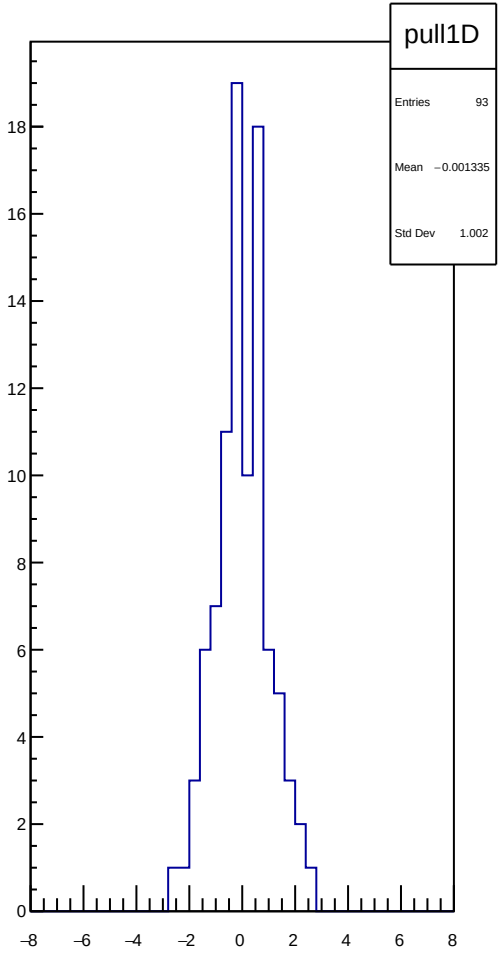
0
2
4
6
8


asym_sam_37_48_dd_cor_correction_rms vs run
χ² / ndf 2815 / 92
p0 332.9 ± 0.2448
380
370
360
350
340
330
320
310
300


eigen_cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 93.32 / 92
p0 −42.12 ± 74.43
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean −515.9
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 93
Mean −0.001335
Std Dev 1.002
18
16
14
12
10
8
6
4
2
0
−8
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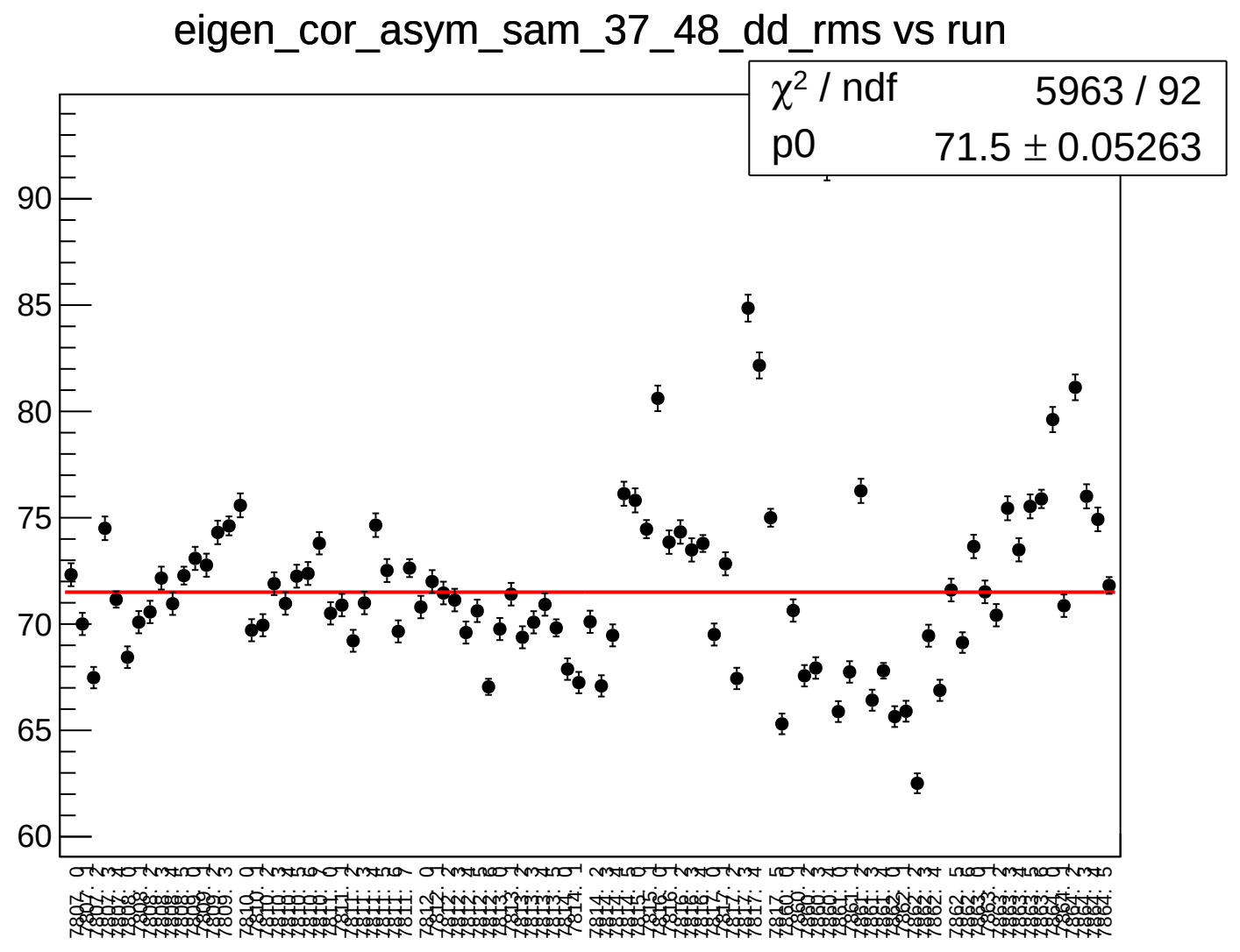
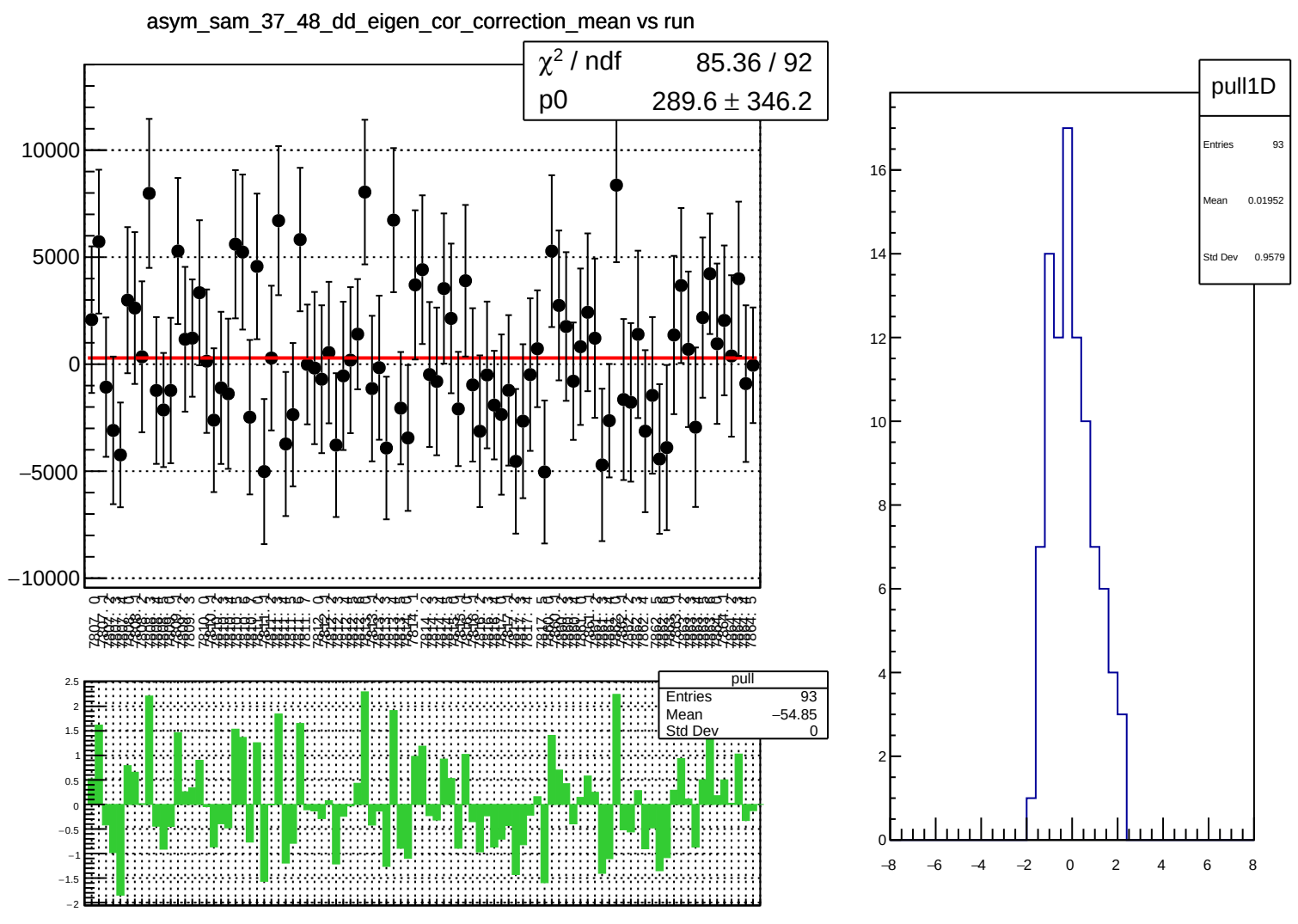
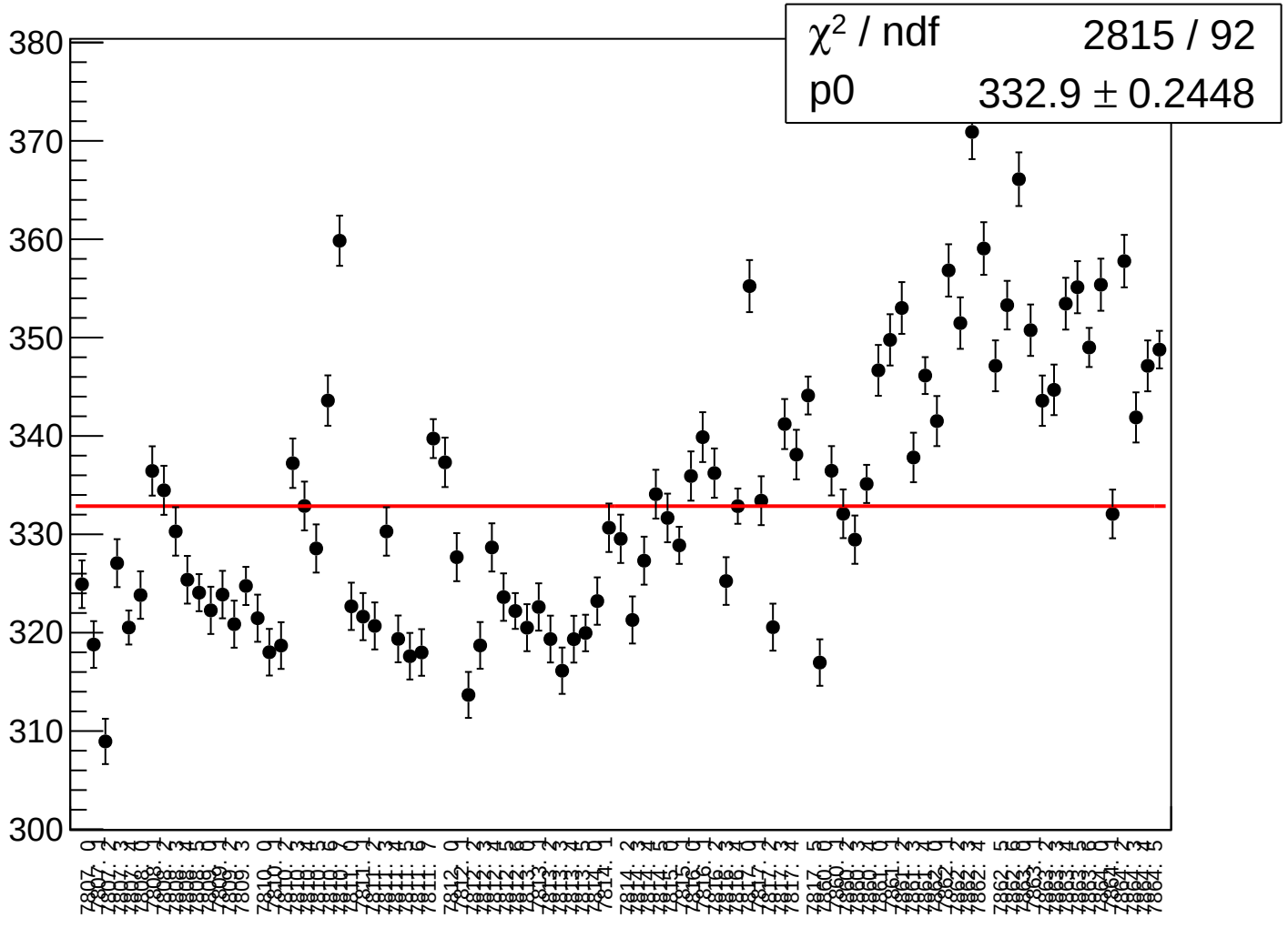
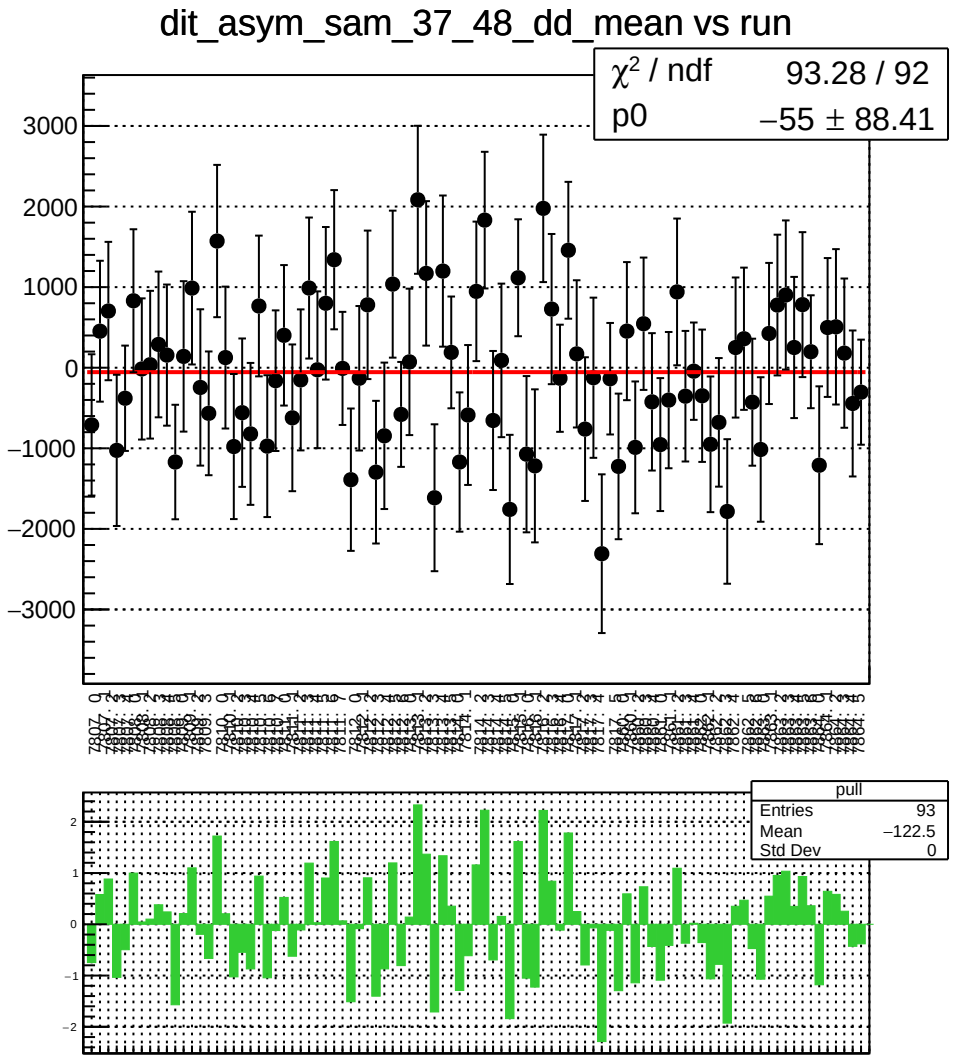
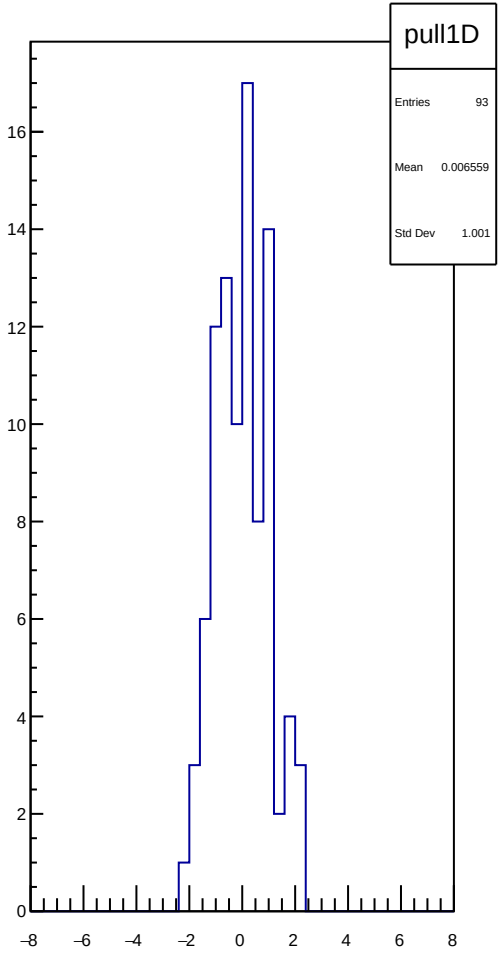
0
2
4
6
8

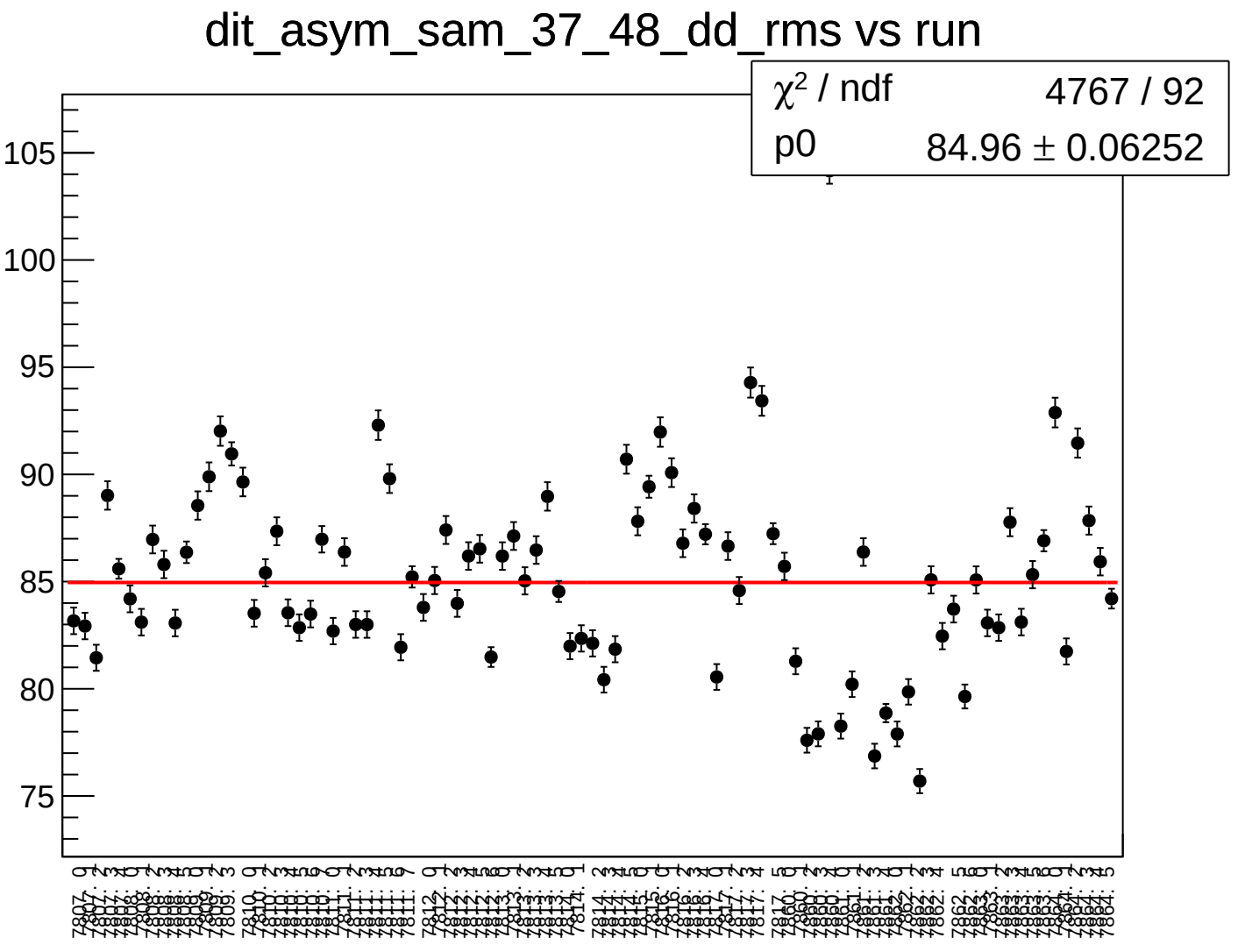

eigen_cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 5963 / 92
p0 71.5 ± 0.05263
90
85
80
75
70
65
60

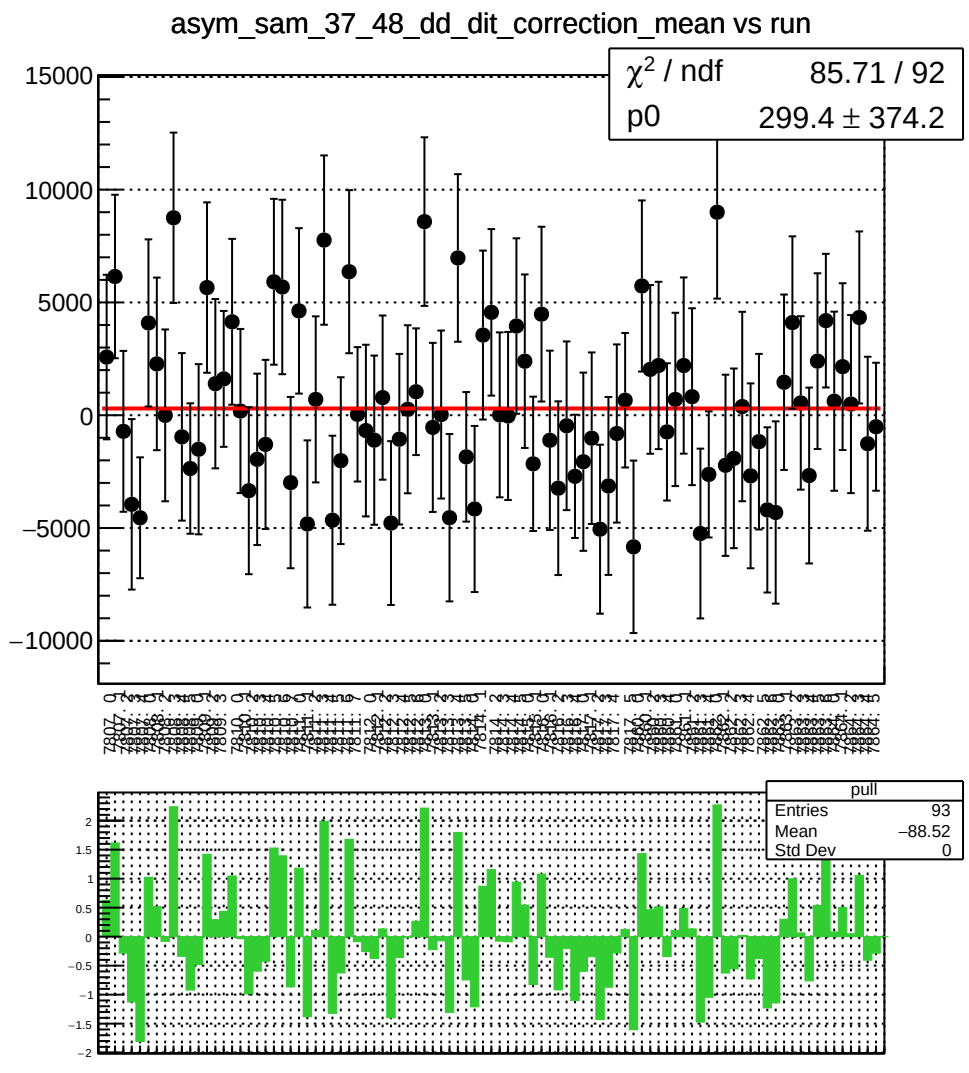

asym_sam_37_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 85.36 / 92
p0 289.6 ± 346.2
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −54.85
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean 0.01952
Std Dev 0.9579
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

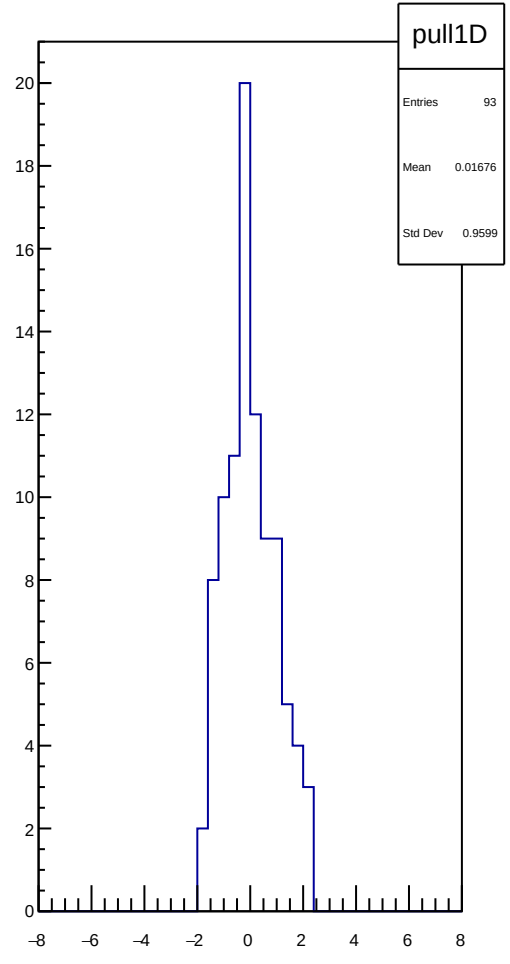

asym_sam_37_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 2815 / 92
p0 332.9 ± 0.2448
380
370
360
350
340
330
320
310
300

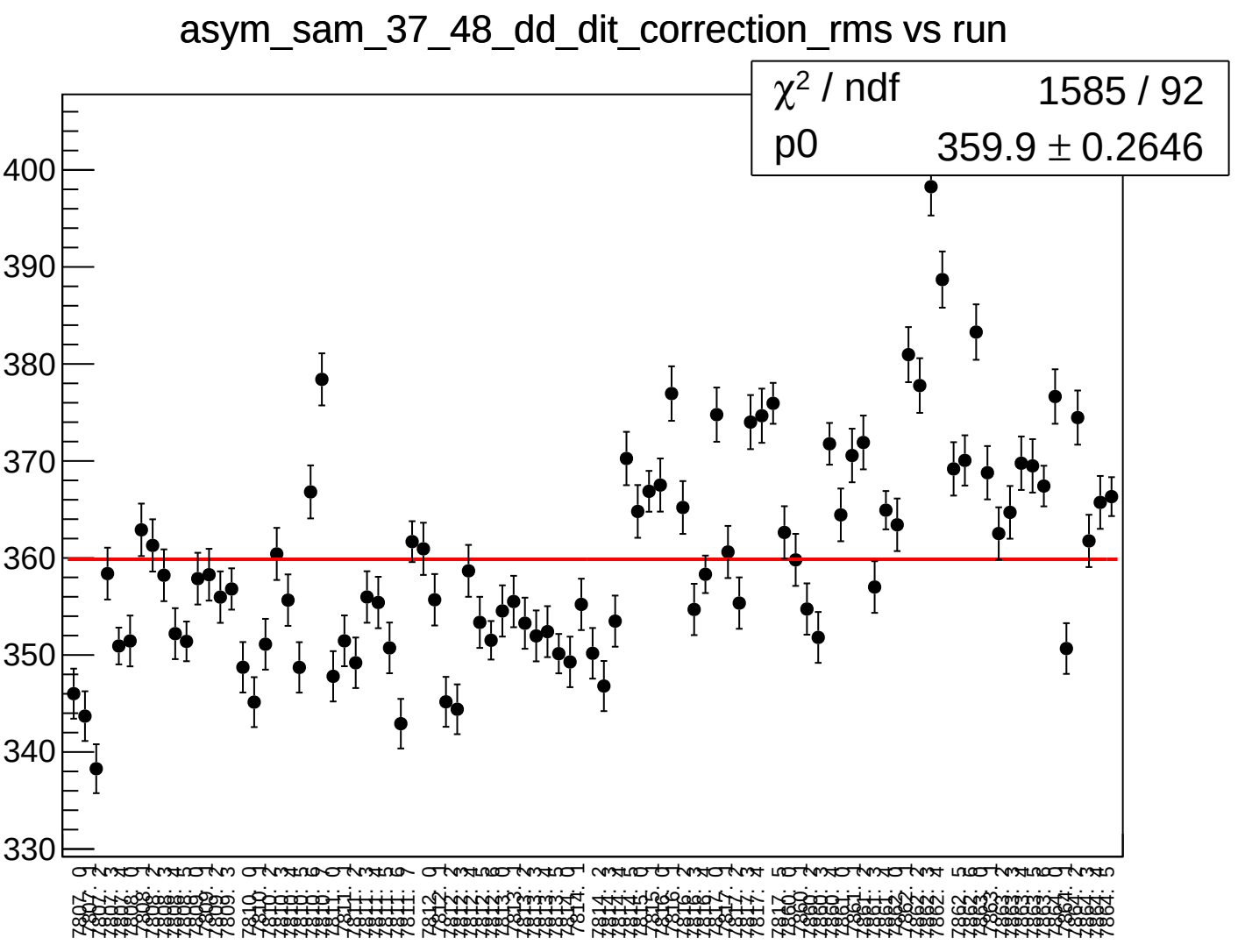

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 93.28 / 92
p0 −55 ± 88.41
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean −122.5
Std Dev 0
2
1
0
−1
−2

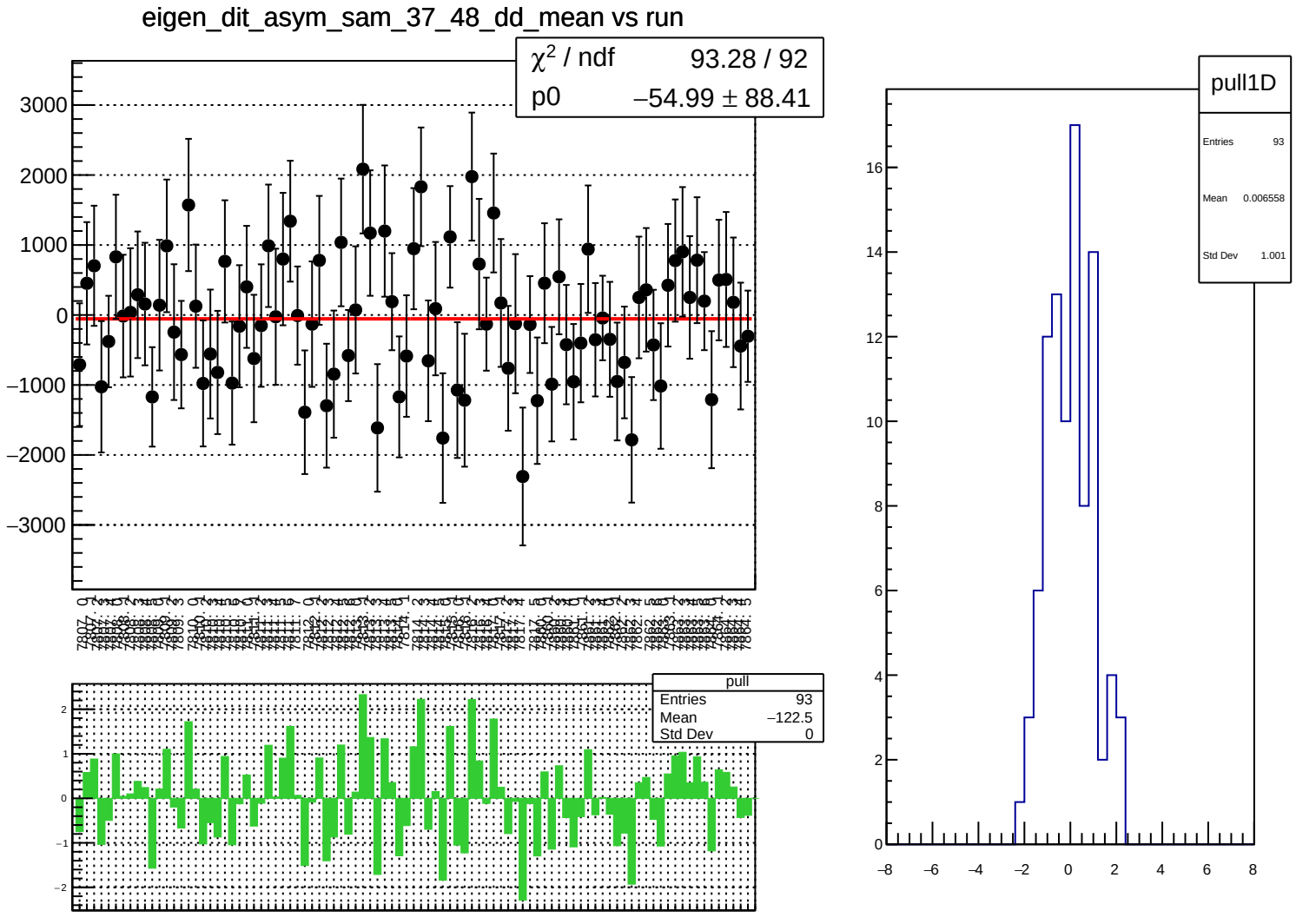

pull1D
Entries 93
Mean 0.006559
Std Dev 1.001
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

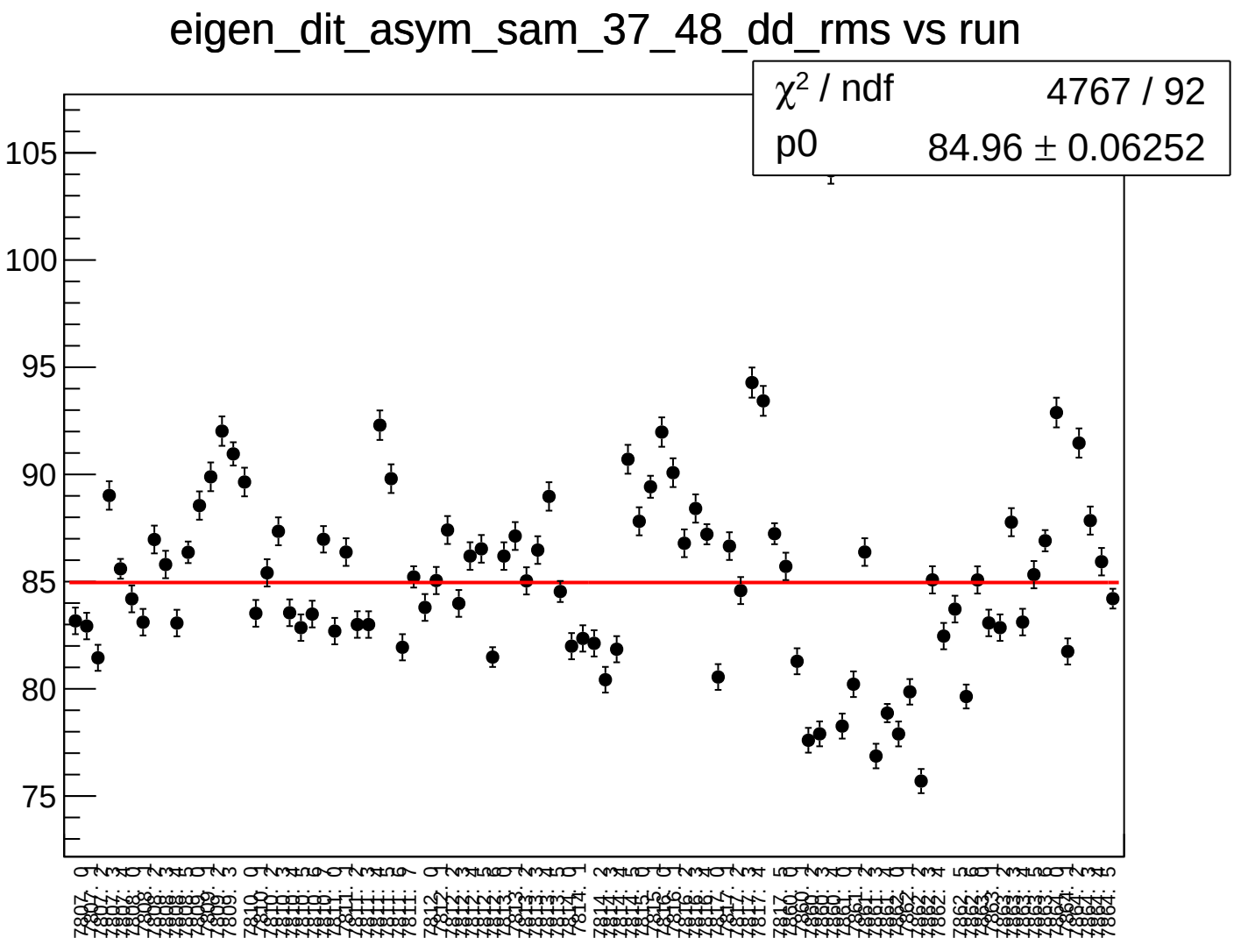

dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 4767 / 92
p0 84.96 ± 0.06252
105
100
95
90
85
80
75

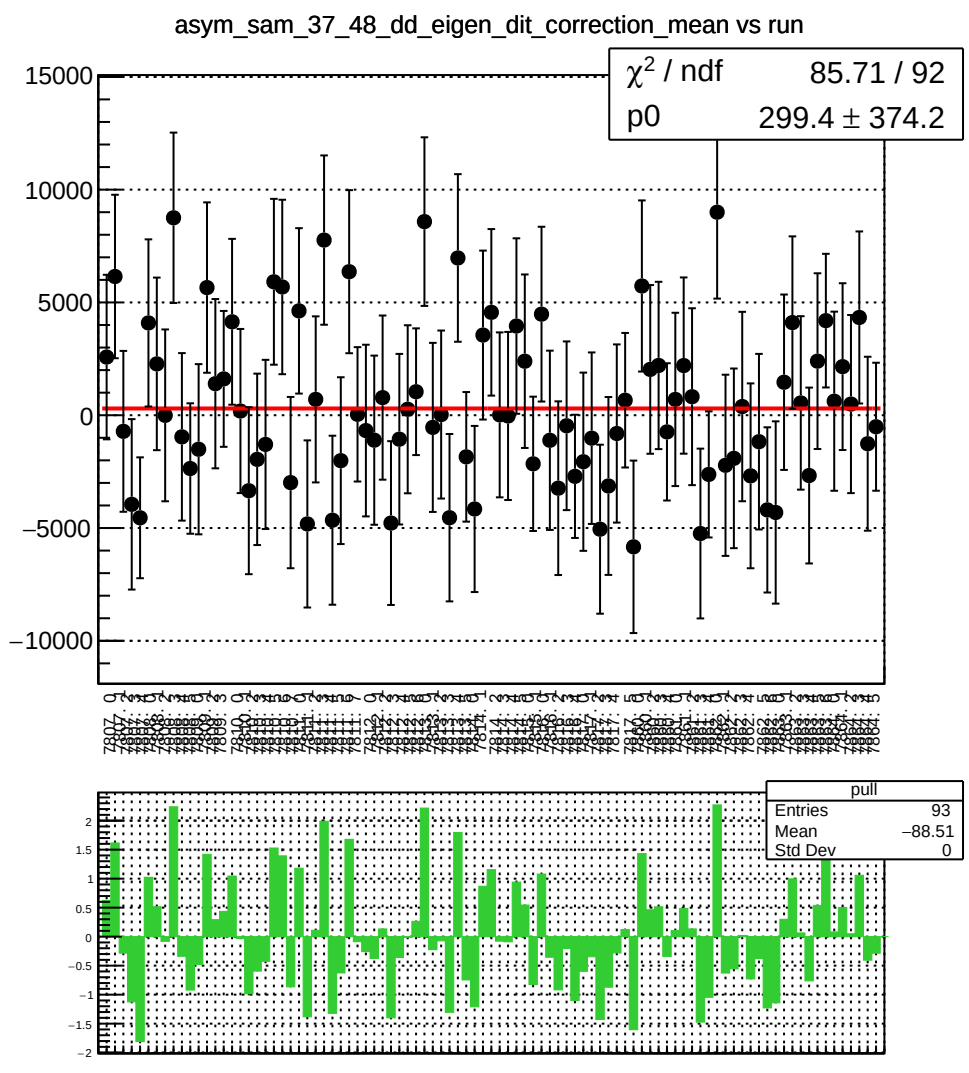

asym_sam_37_48_dd_dit_correction_mean vs run
χ² / ndf 85.71 / 92
p0 299.4 ± 374.2
15000
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −88.52
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

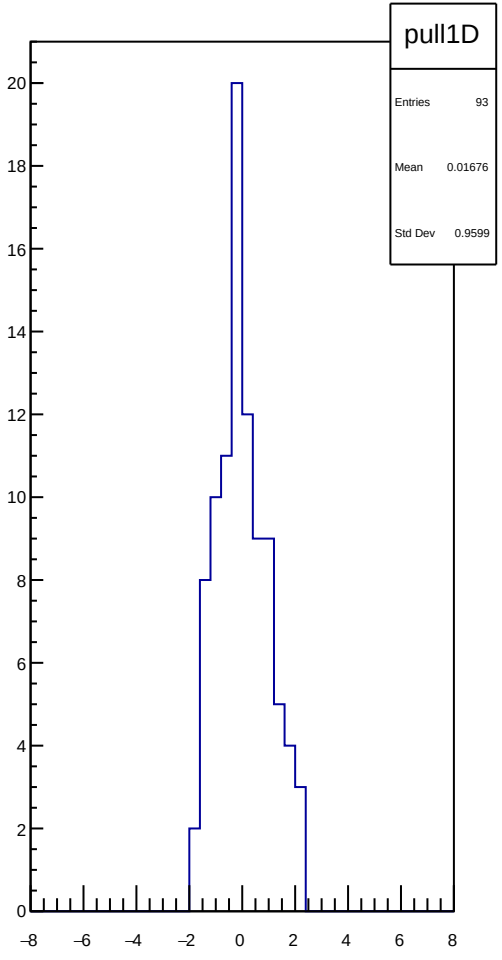

pull1D
Entries 93
Mean 0.01676
Std Dev 0.9599
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

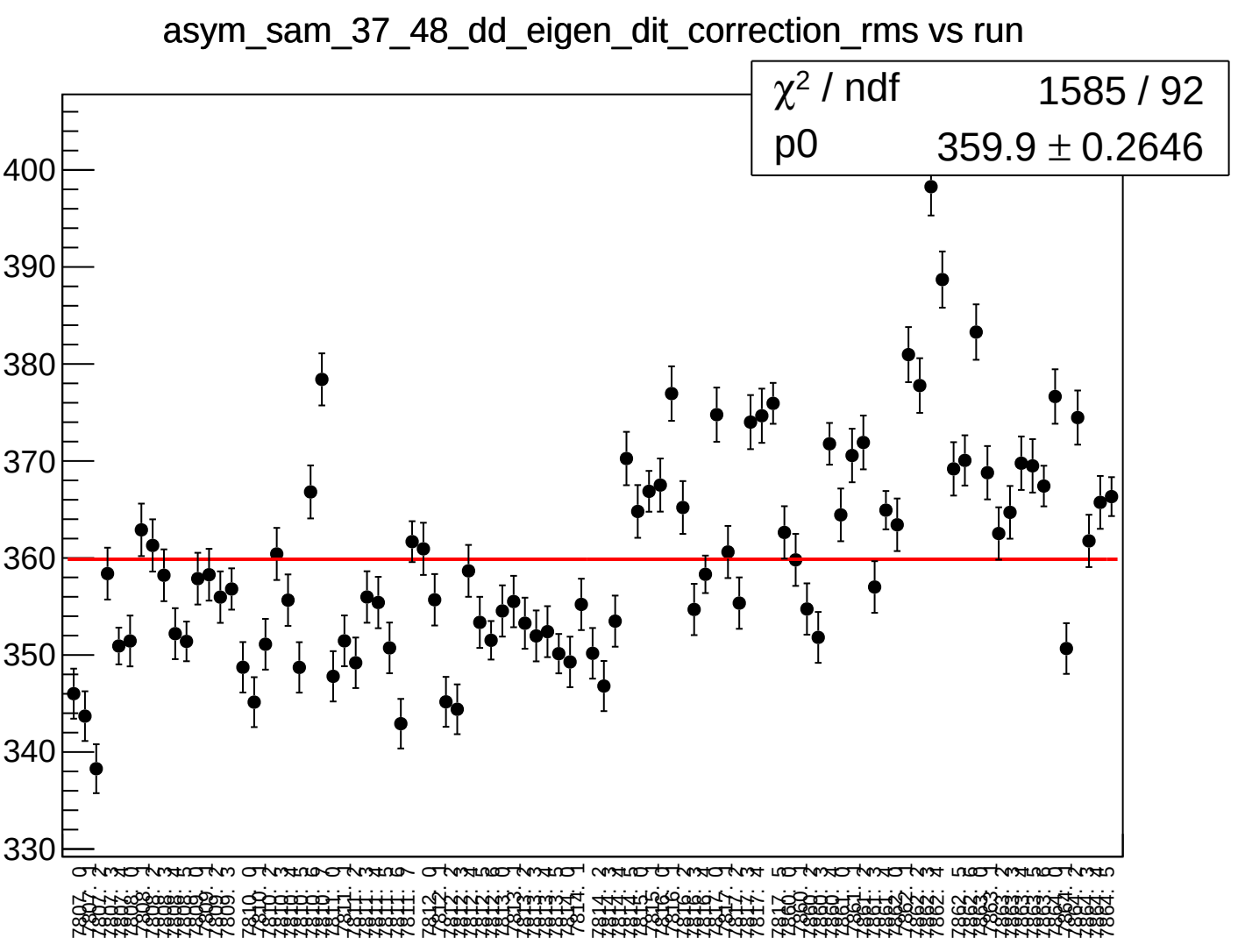

asym_sam_37_48_dd_dit_correction_rms vs run
χ² / ndf 1585 / 92
p0 359.9 ± 0.2646
400
390
380
370
360
350
340
330

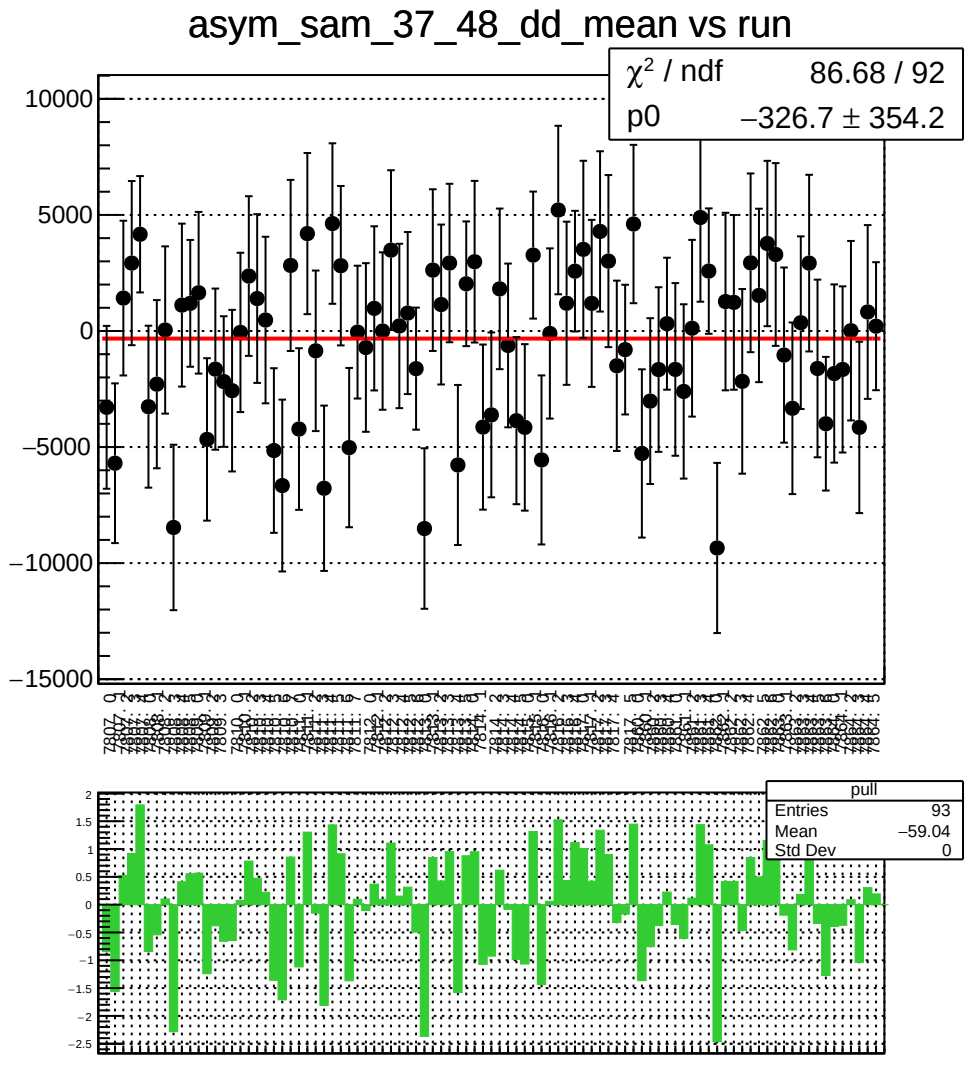

eigen_dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 93.28 / 92
p0 −54.99 ± 88.41
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean −122.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.006558
Std Dev 1.001
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

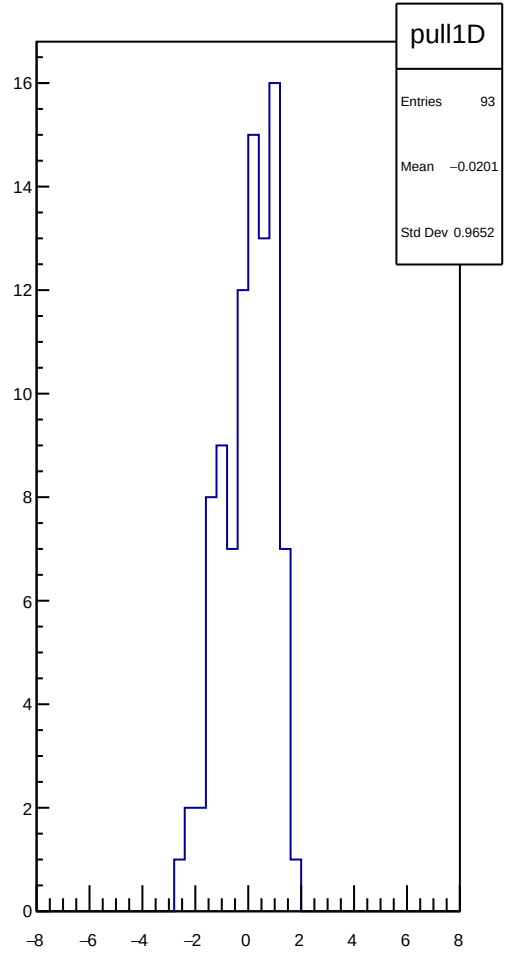

eigen_dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 4767 / 92
p0 84.96 ± 0.06252
105
100
95
90
85
80
75

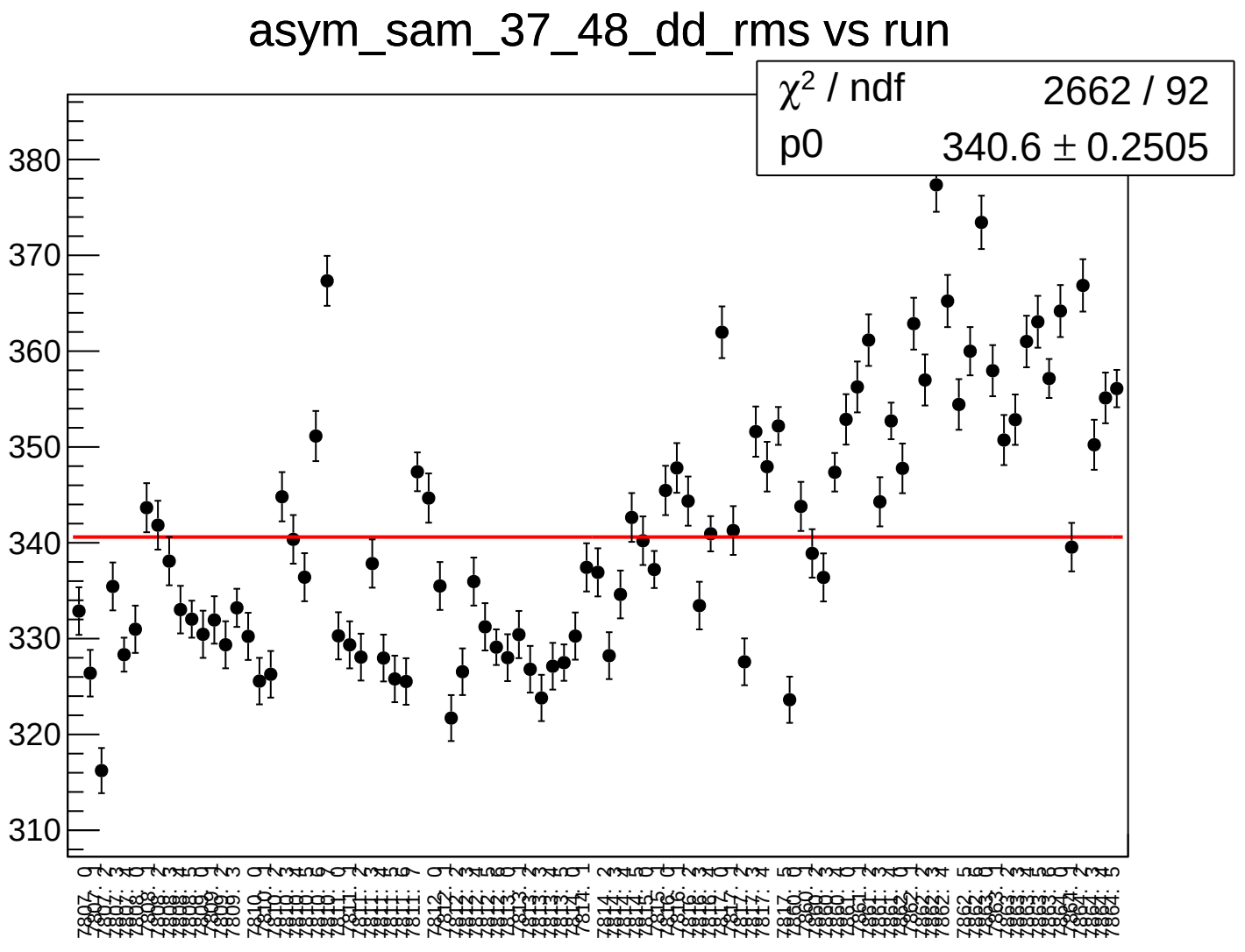

asym_sam_37_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 85.71 / 92
p0 299.4 ± 374.2
pull
Entries 93
Mean −88.51
Std Dev 0

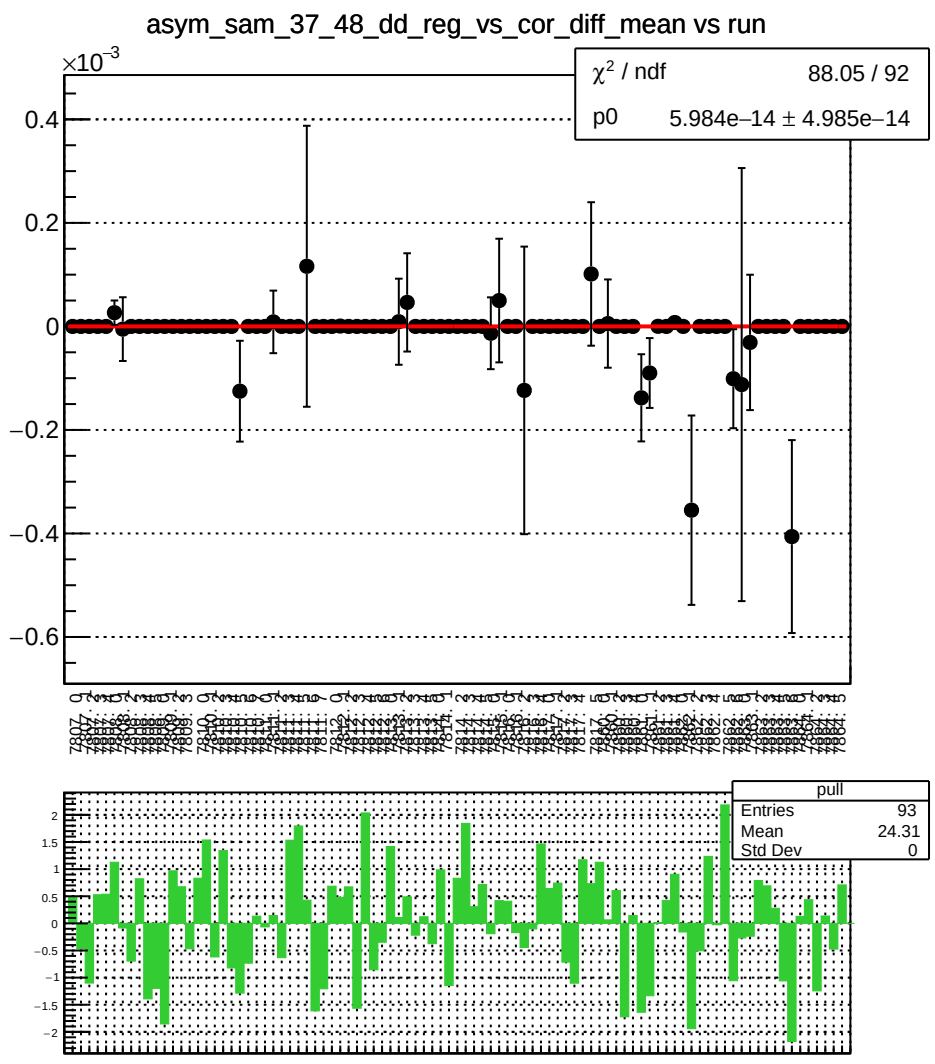

pull1D
Entries 93
Mean 0.01676
Std Dev 0.9599

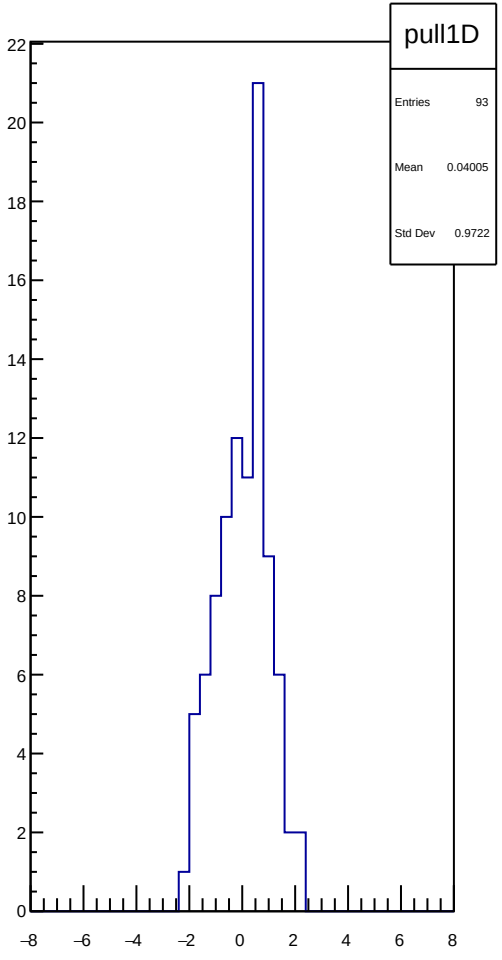

asym_sam_37_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 1585 / 92
p0 359.9 ± 0.2646
400
390
380
370
360
350
340
330

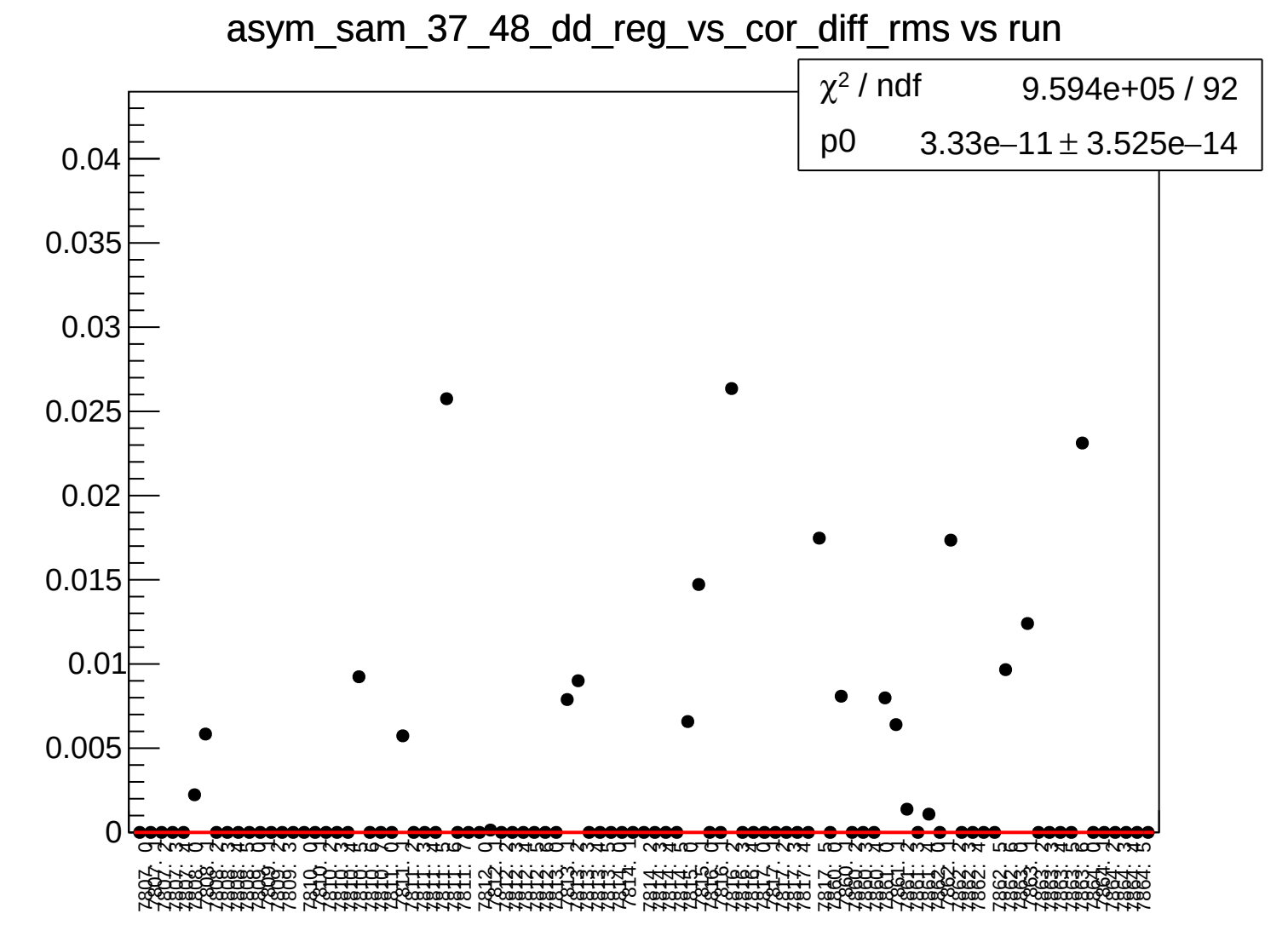

asym_sam_37_48_dd_mean vs run
χ² / ndf 86.68 / 92
p0 −326.7 ± 354.2
pull
Entries 93
Mean −59.04
Std Dev 0

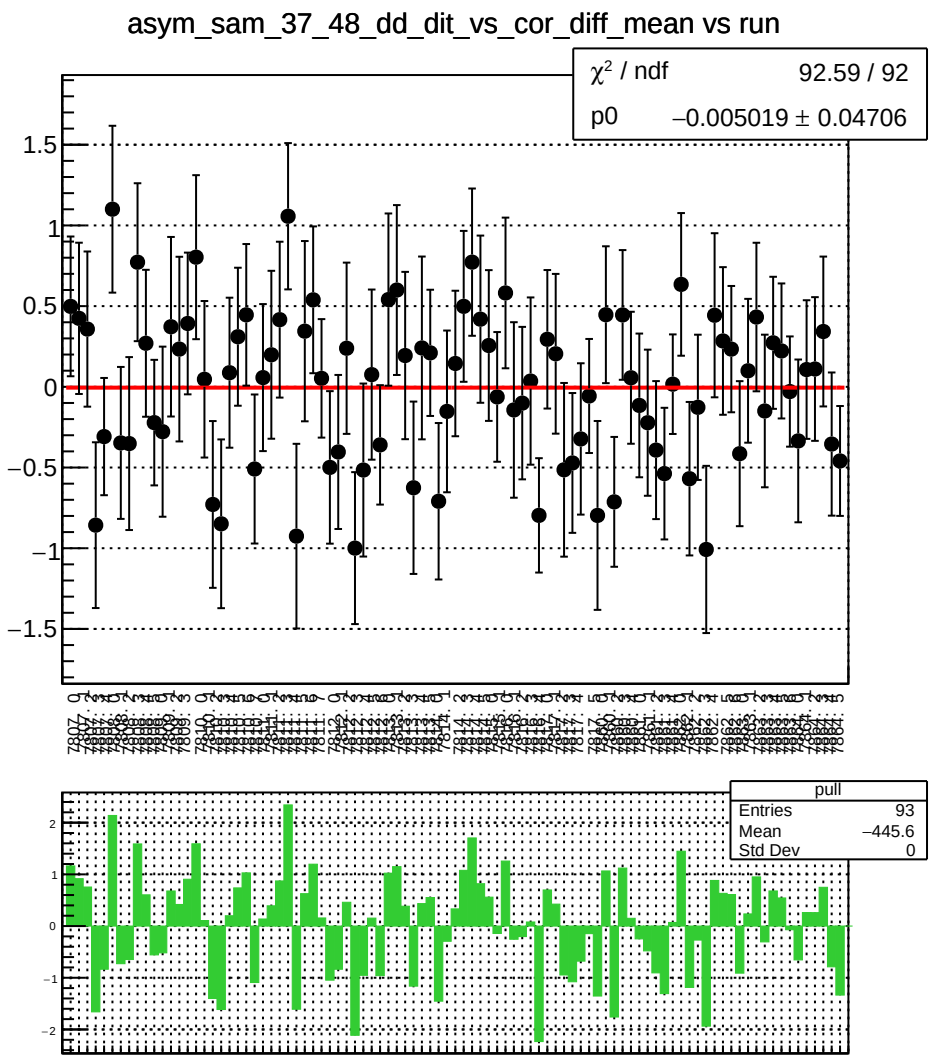

pull1D
Entries 93
Mean −0.0201
Std Dev 0.9652

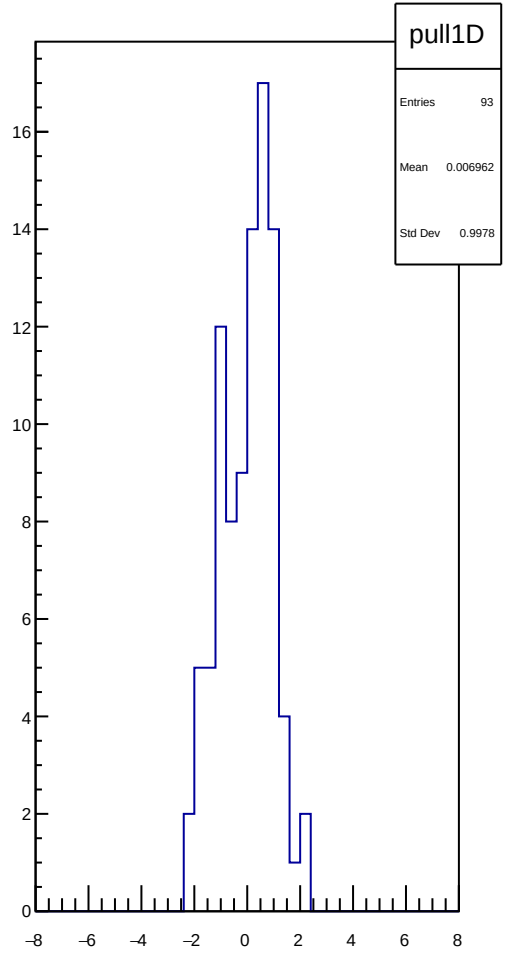

asym_sam_37_48_dd_rms vs run
χ² / ndf 2662 / 92
p0 340.6 ± 0.2505
380
370
360
350
340
330
320
310

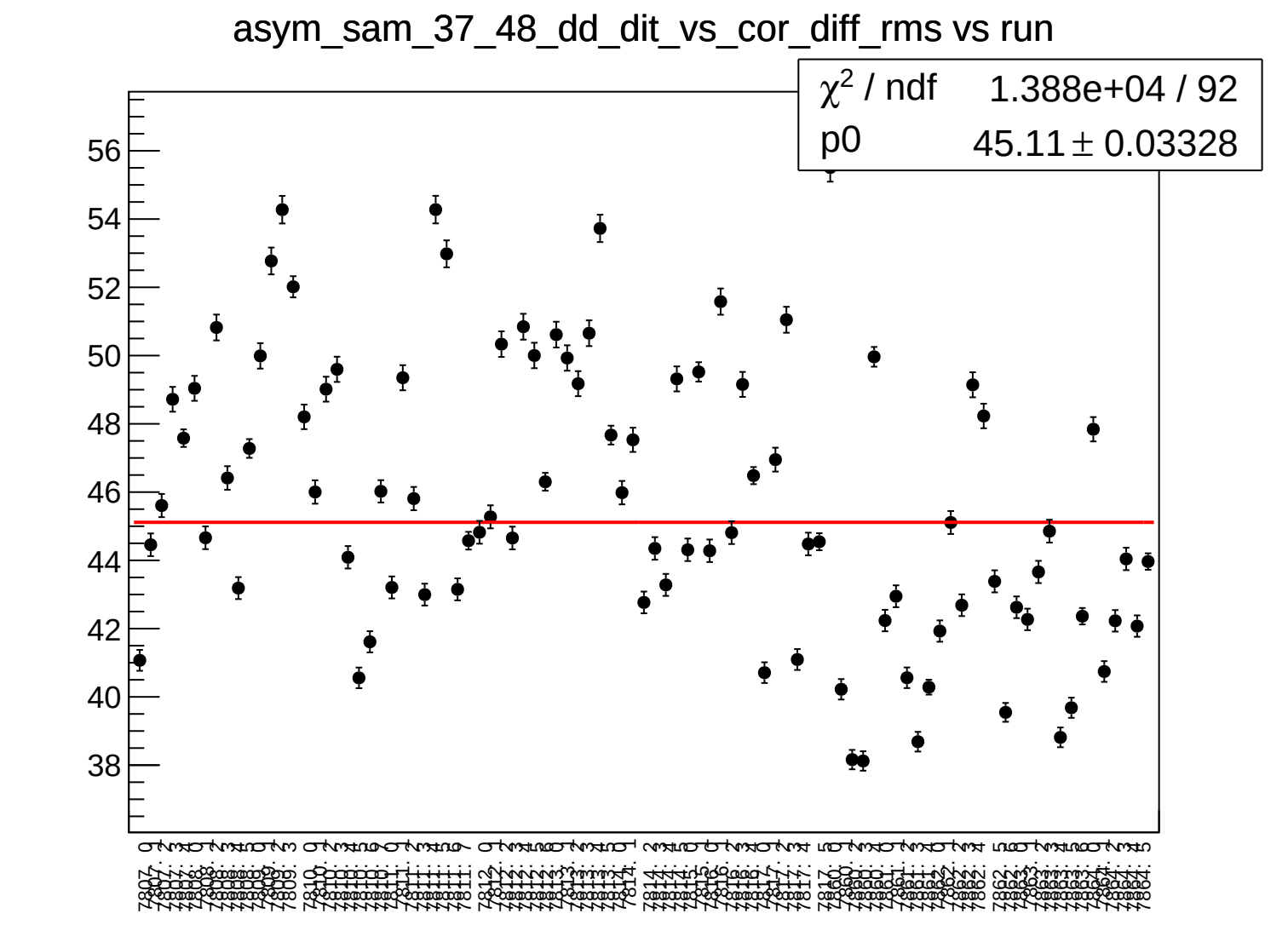

asym_sam_37_48_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 88.05 / 92
p0 5.984e−14 ± 4.985e−14
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 93
Mean 24.31
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

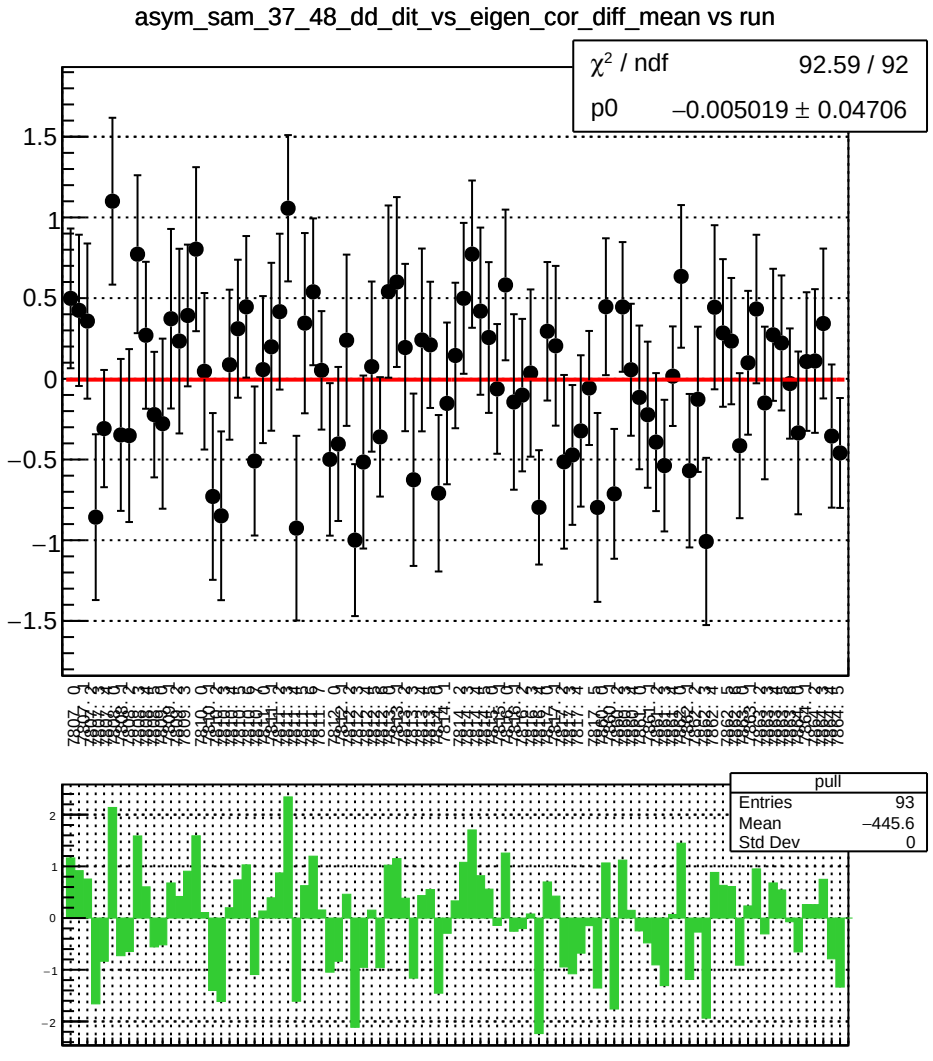

pull1D
Entries 93
Mean 0.04005
Std Dev 0.9722
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

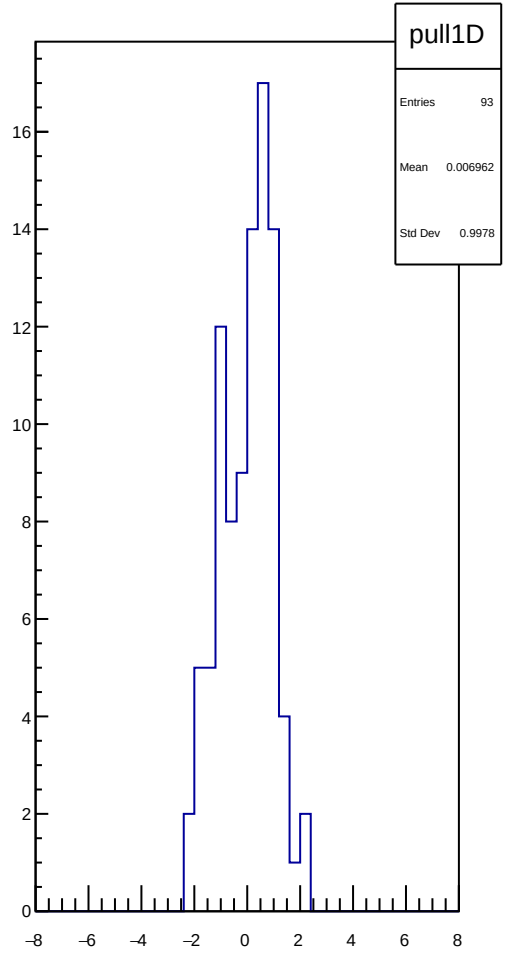

asym_sam_37_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.594e+05 / 92
p0 3.33e−11 ± 3.525e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

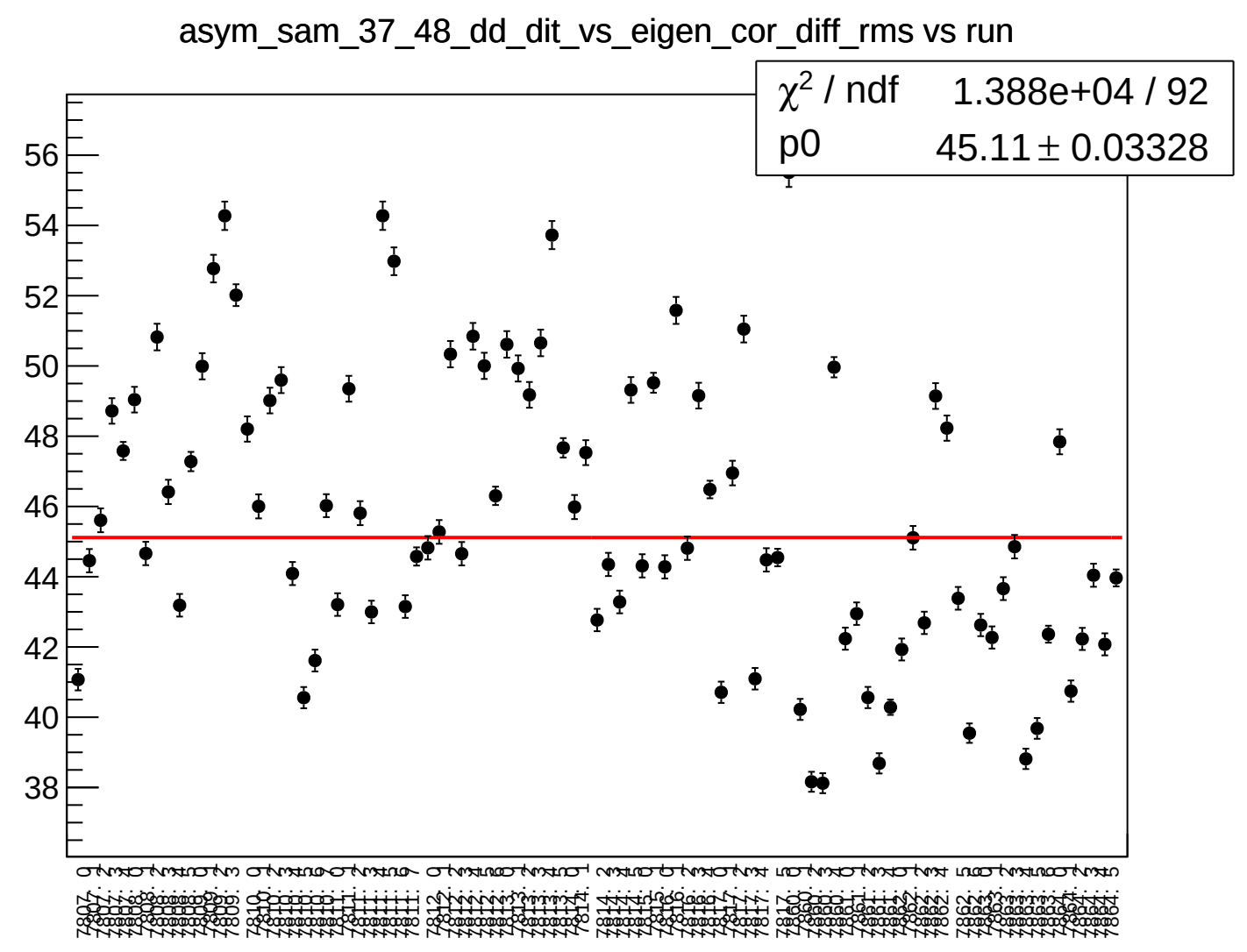

asym_sam_37_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 92.59 / 92
p0 −0.005019 ± 0.04706
pull
Entries 93
Mean −445.6
Std Dev 0

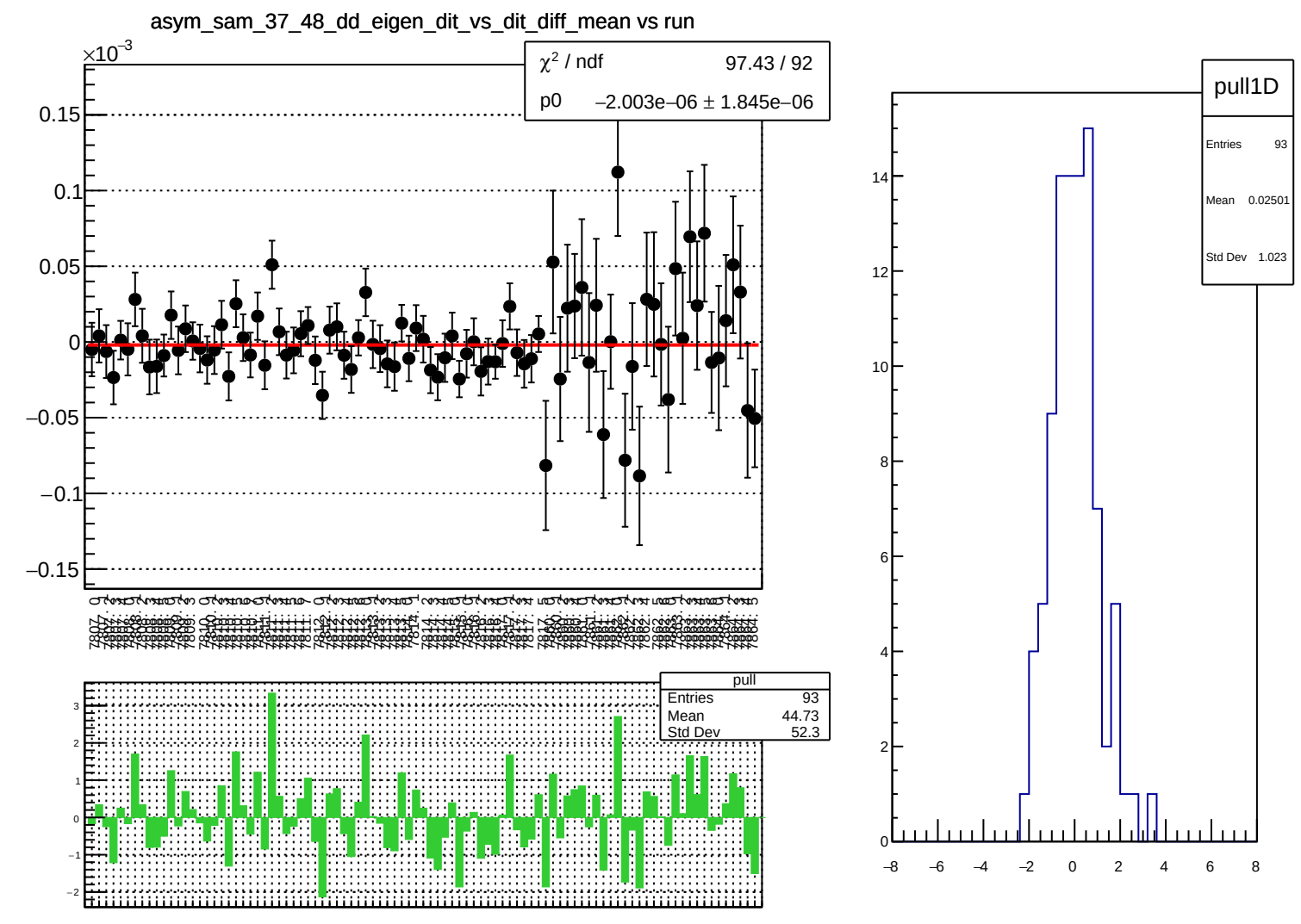

pull1D
Entries 93
Mean 0.006962
Std Dev 0.9978

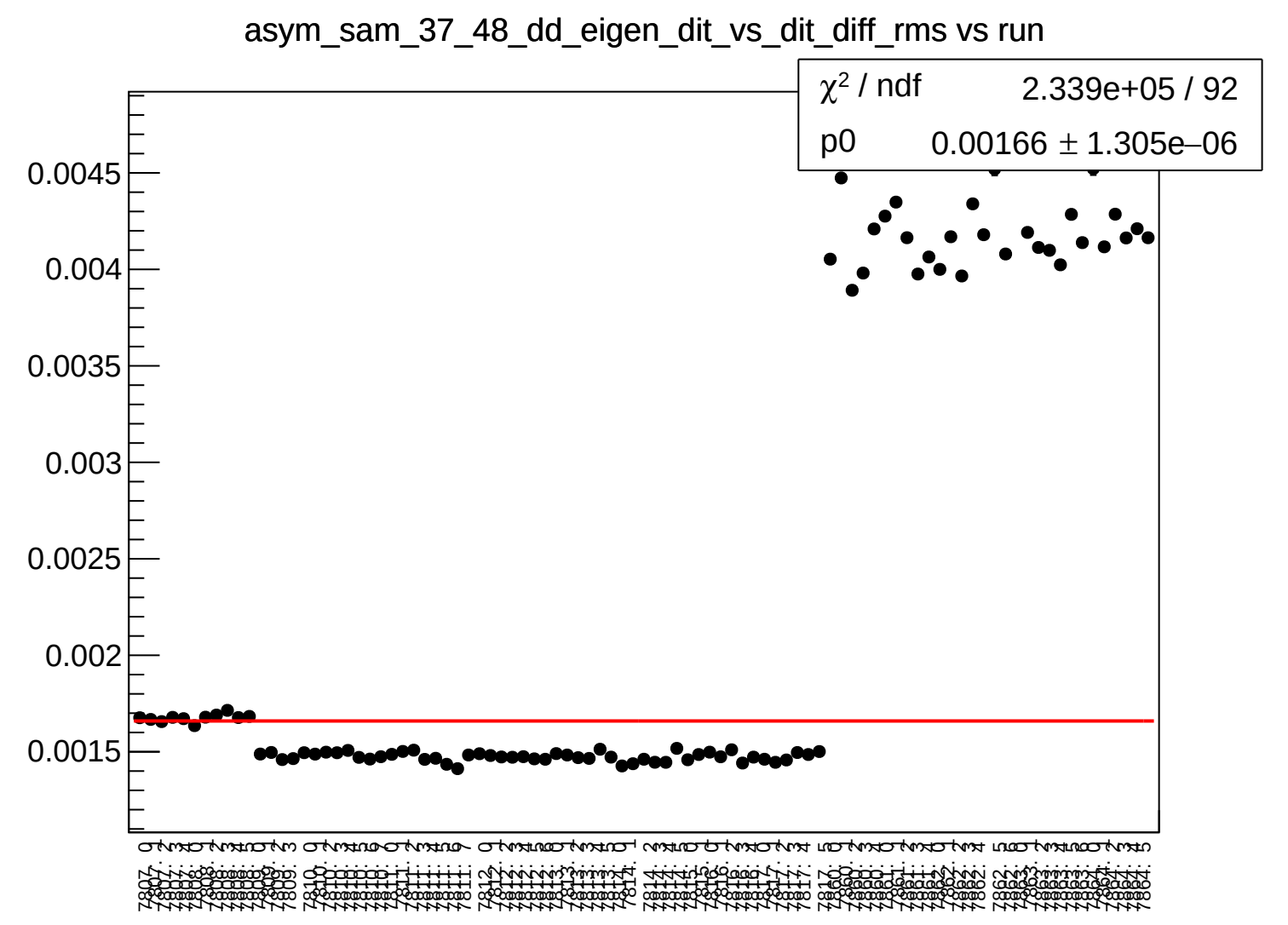

asym_sam_37_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.388e+04 / 92
p0 45.11 ± 0.03328
56
54
52
50
48
46
44
42
40
38

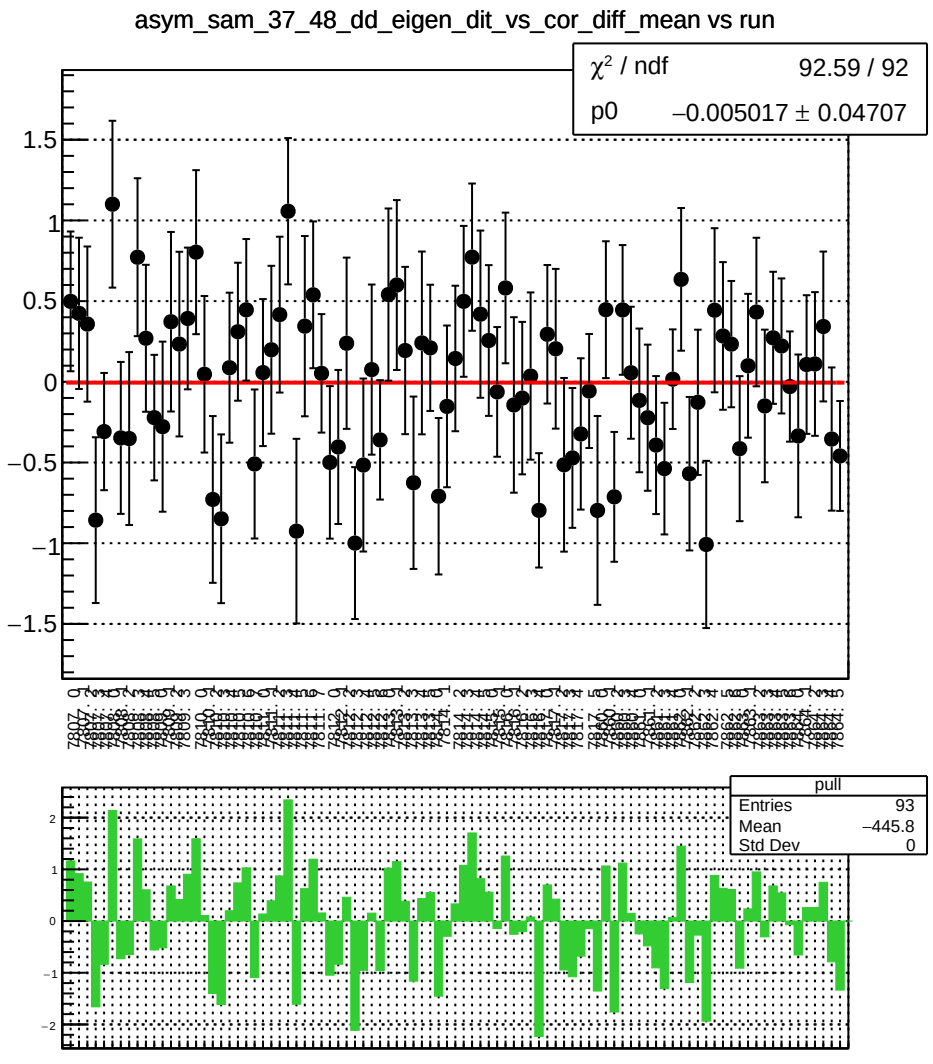

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.59 / 92
p0 −0.005019 ± 0.04706
pull
Entries 93
Mean −445.6
Std Dev 0

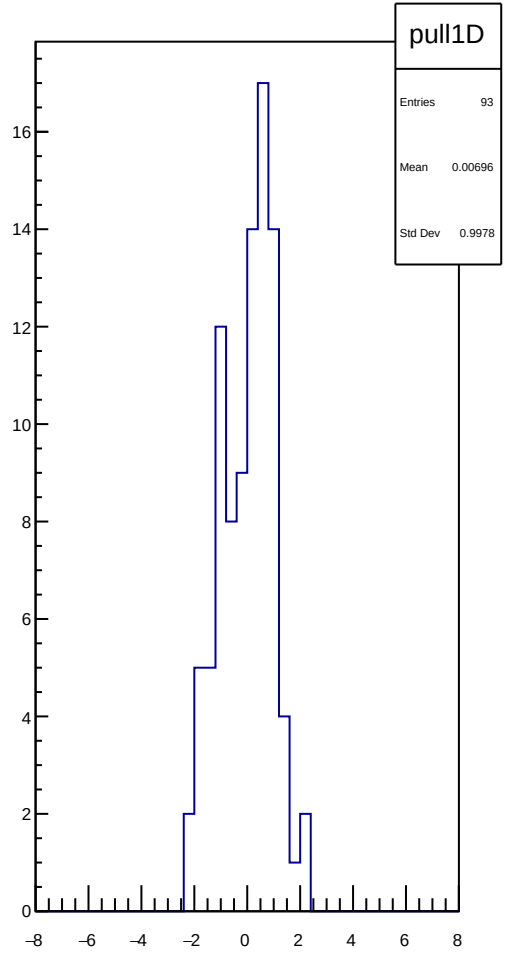

pull1D
Entries 93
Mean 0.006962
Std Dev 0.9978

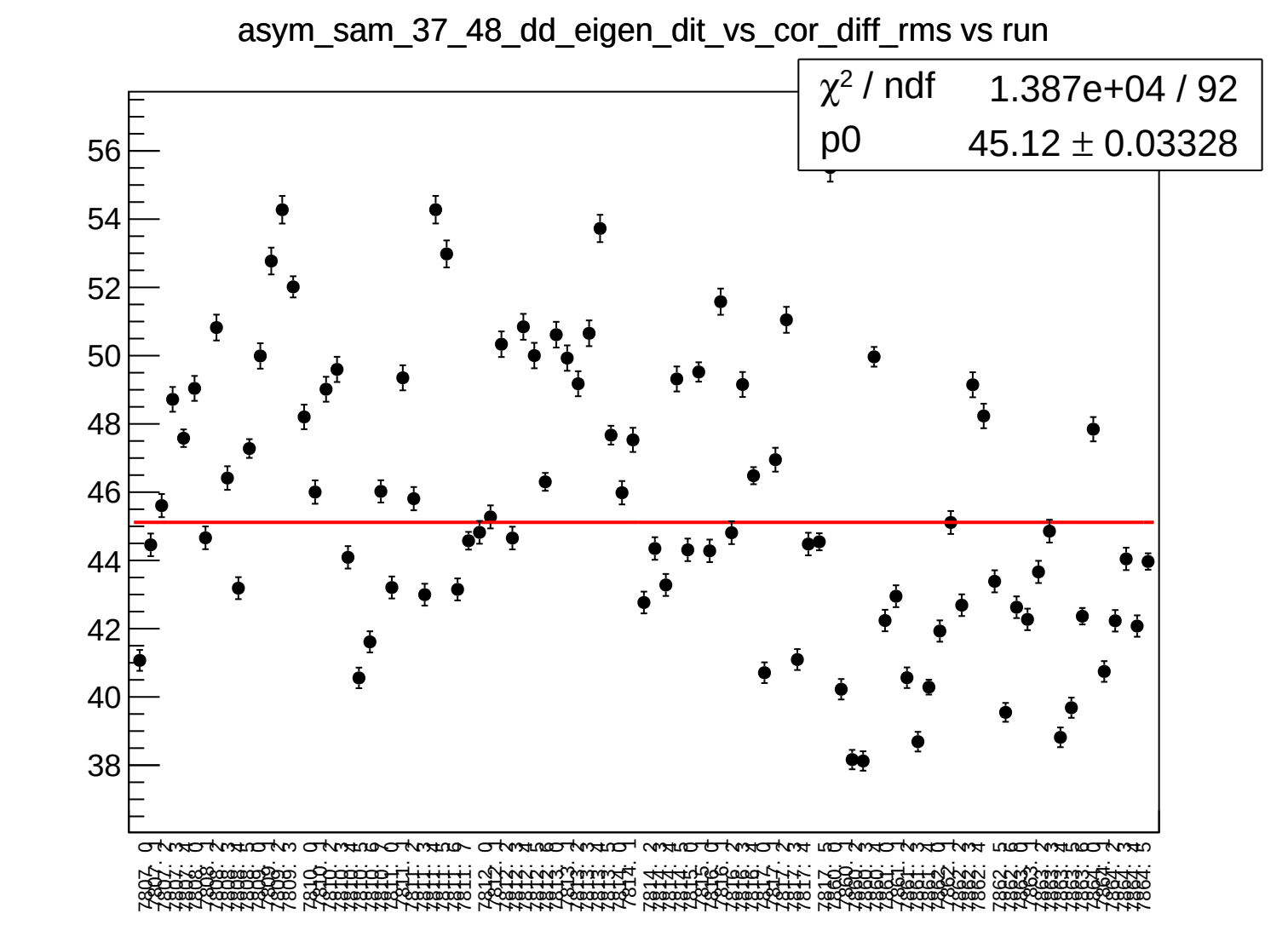

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.388e+04 / 92
p0 45.11 ± 0.03328
56
54
52
50
48
46
44
42
40
38

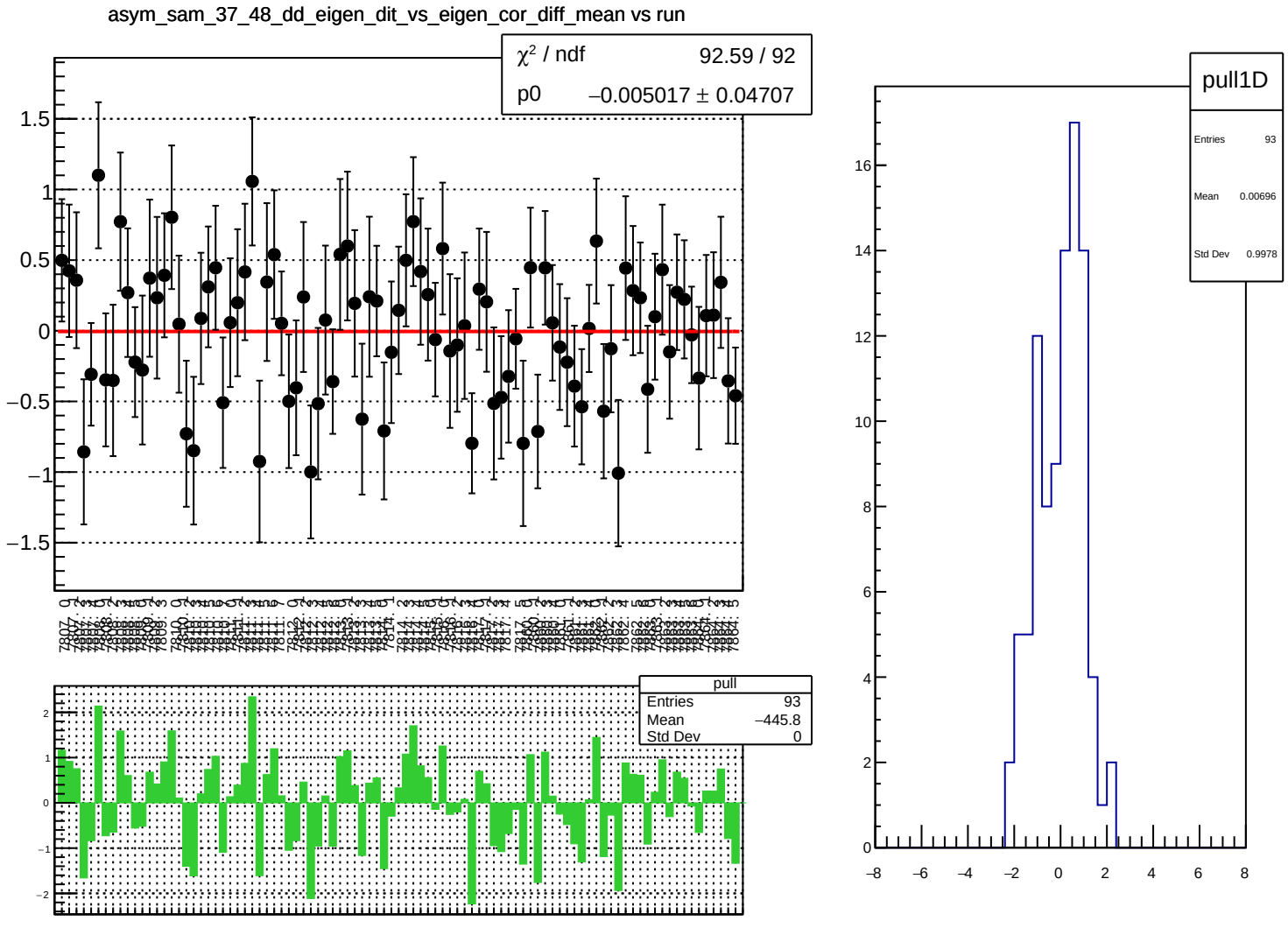

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.43 / 92
p0 −2.003e−06 ± 1.845e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 93
Mean 44.73
Std Dev 52.3
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.02501
Std Dev 1.023
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

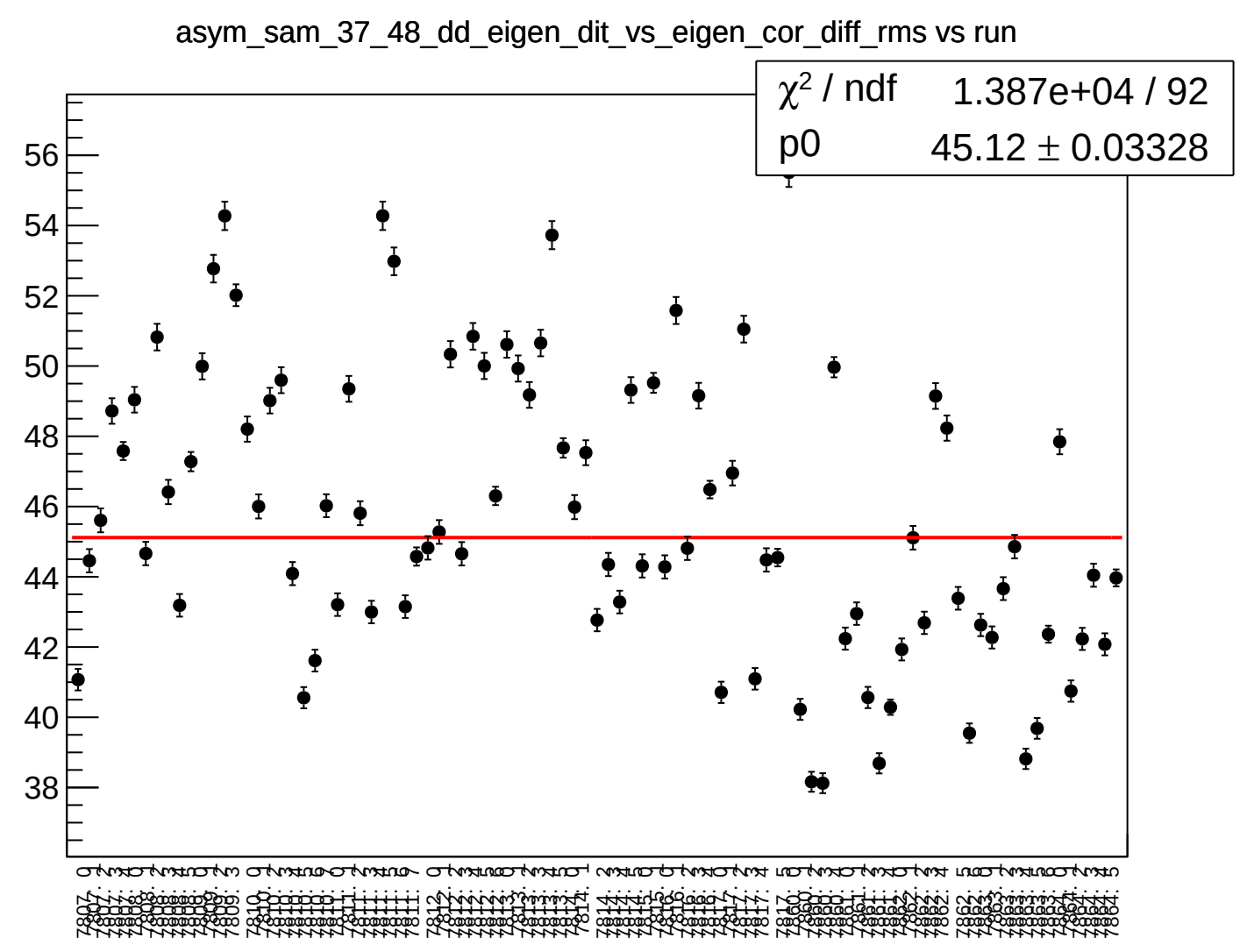

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.339e+05 / 92
p0 0.00166 ± 1.305e−06
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015

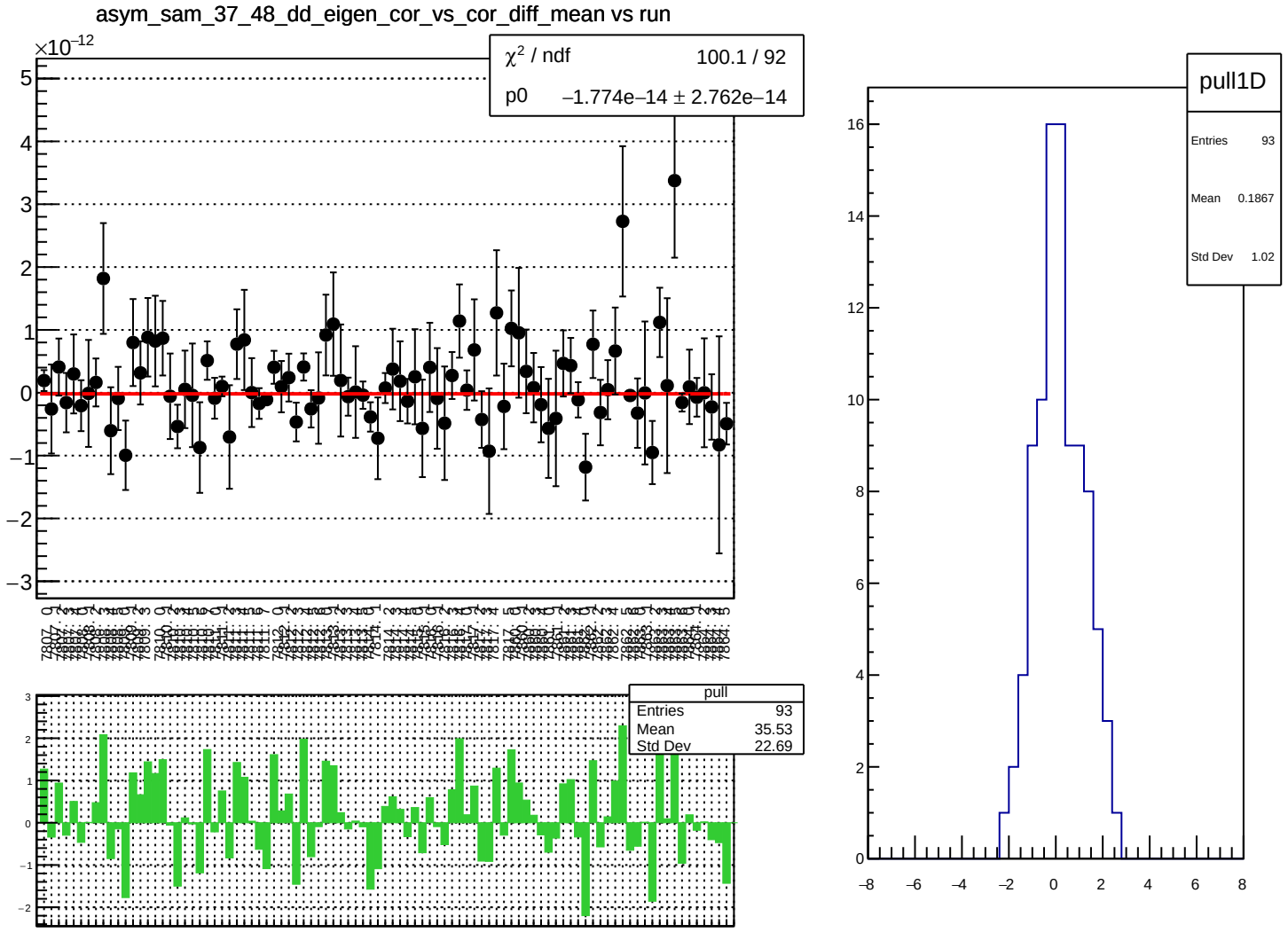

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.59 / 92
p0 −0.005017 ± 0.04707
pull
Entries 93
Mean −445.8
Std Dev 0

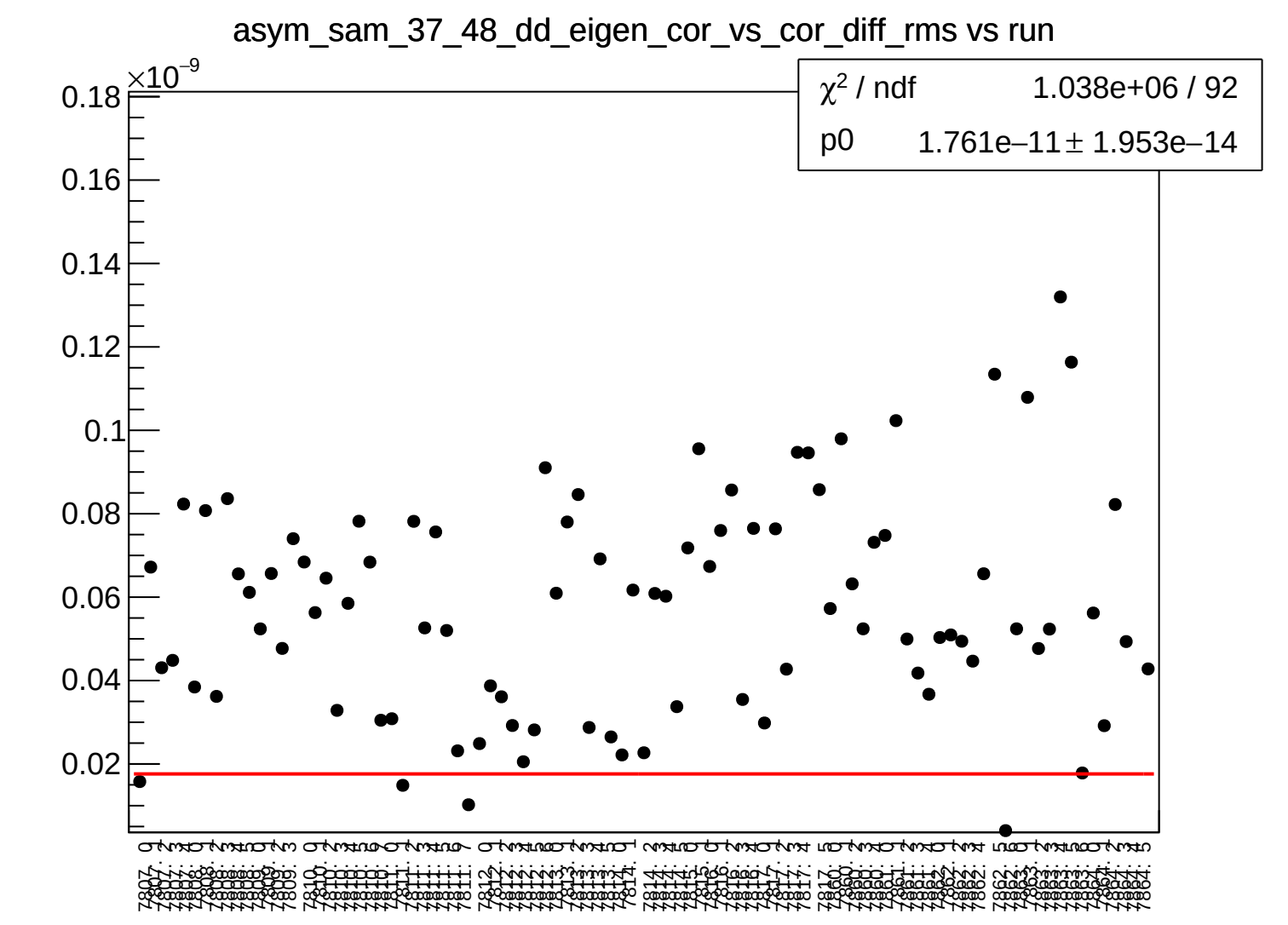

pull1D
Entries 93
Mean 0.00696
Std Dev 0.9978

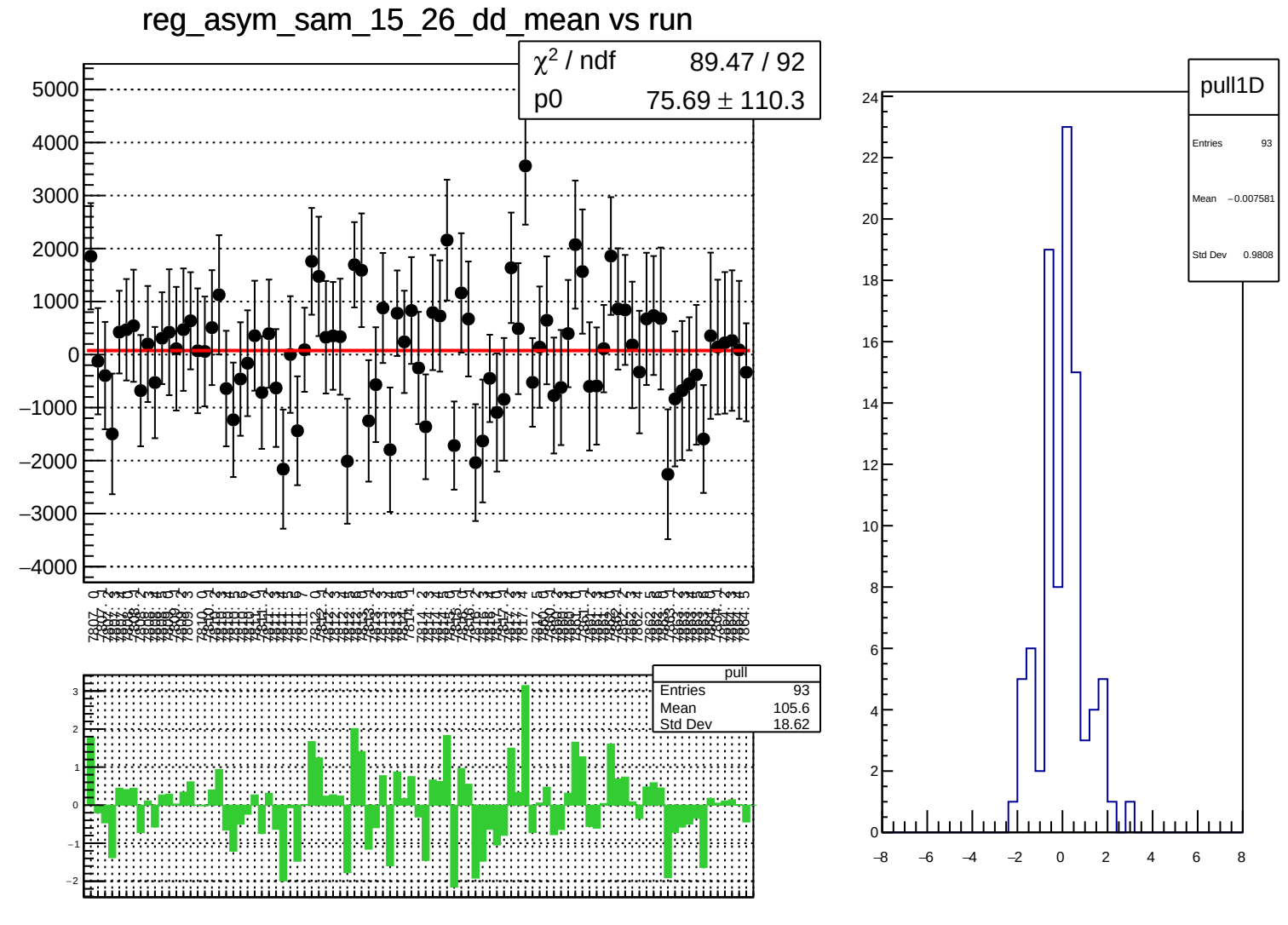

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.387e+04 / 92
p0 45.12 ± 0.03328
56
54
52
50
48
46
44
42
40
38

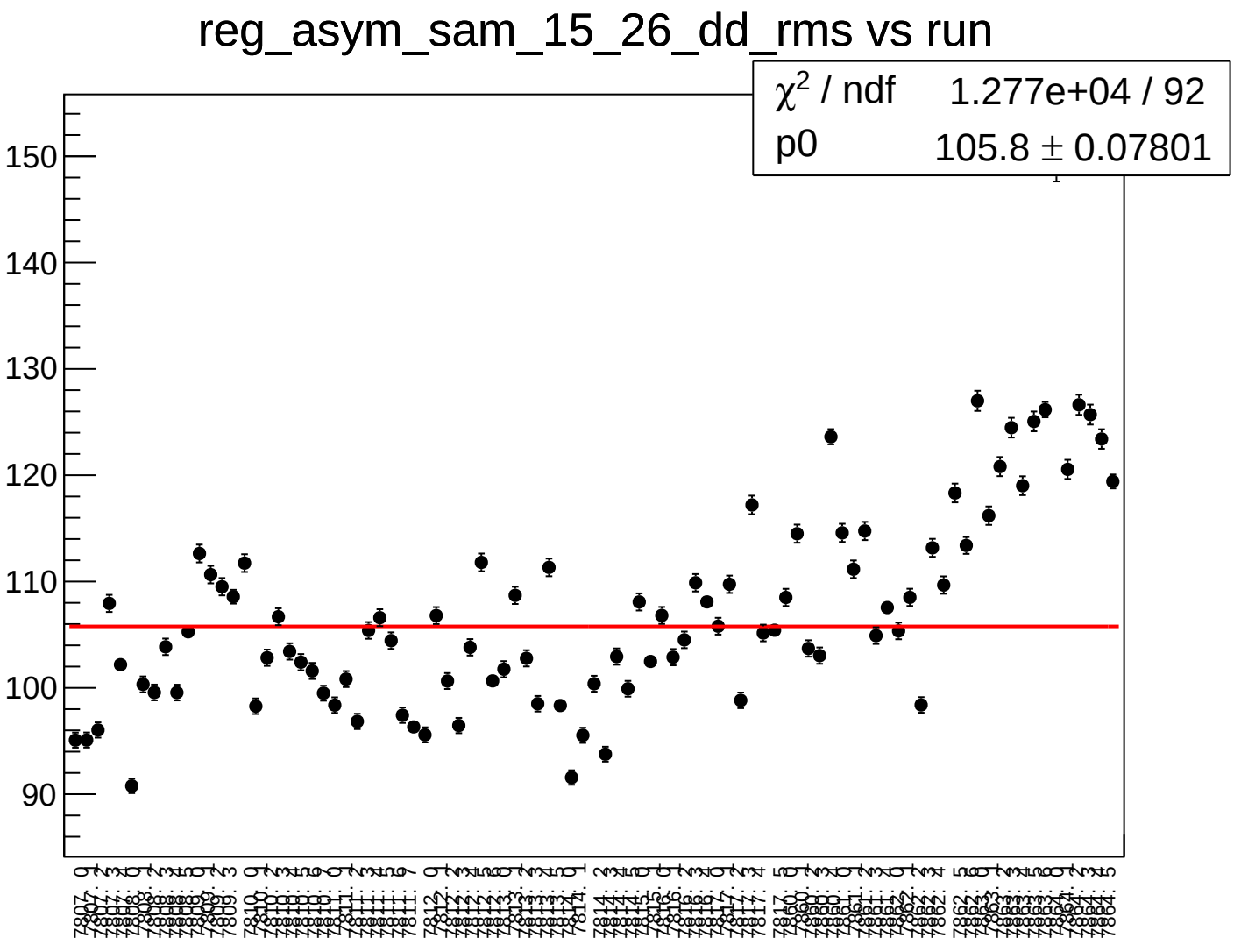

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.59 / 92
p0 −0.005017 ± 0.04707
pull
Entries 93
Mean −445.8
Std Dev 0
pull1D
Entries 93
Mean 0.00696
Std Dev 0.9978

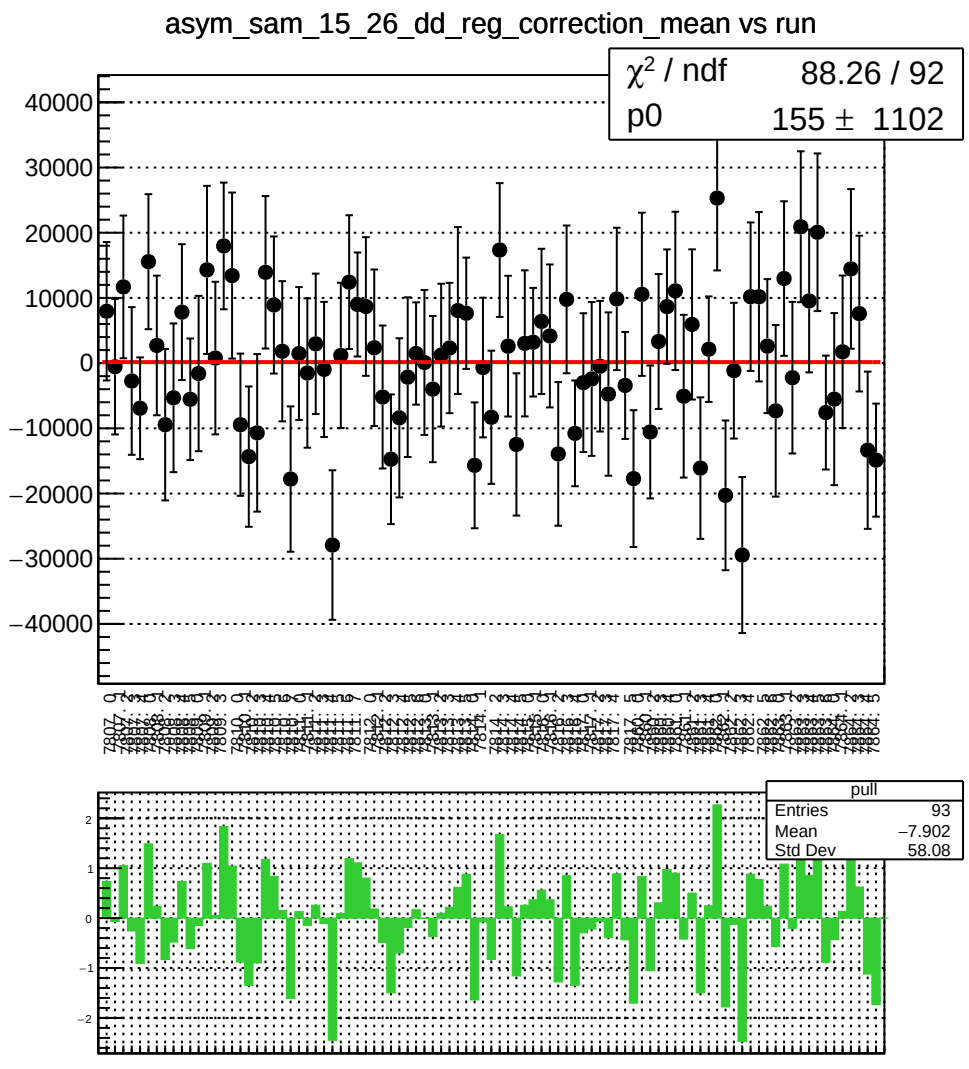

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.387e+04 / 92
p0 45.12 ± 0.03328
56
54
52
50
48
46
44
42
40
38

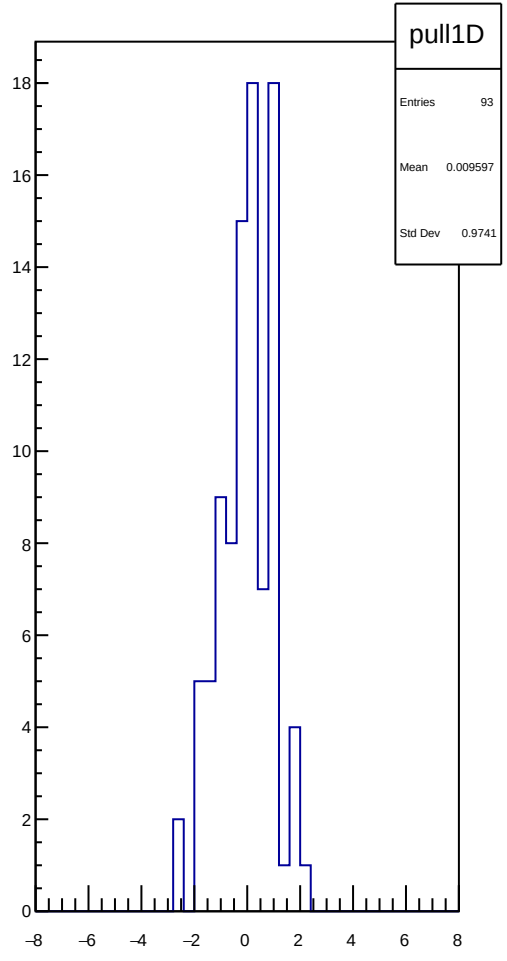

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 100.1 / 92
p0 −1.774e−14 ± 2.762e−14
pull
Entries 93
Mean 35.53
Std Dev 22.69
pull1D
Entries 93
Mean 0.1867
Std Dev 1.02

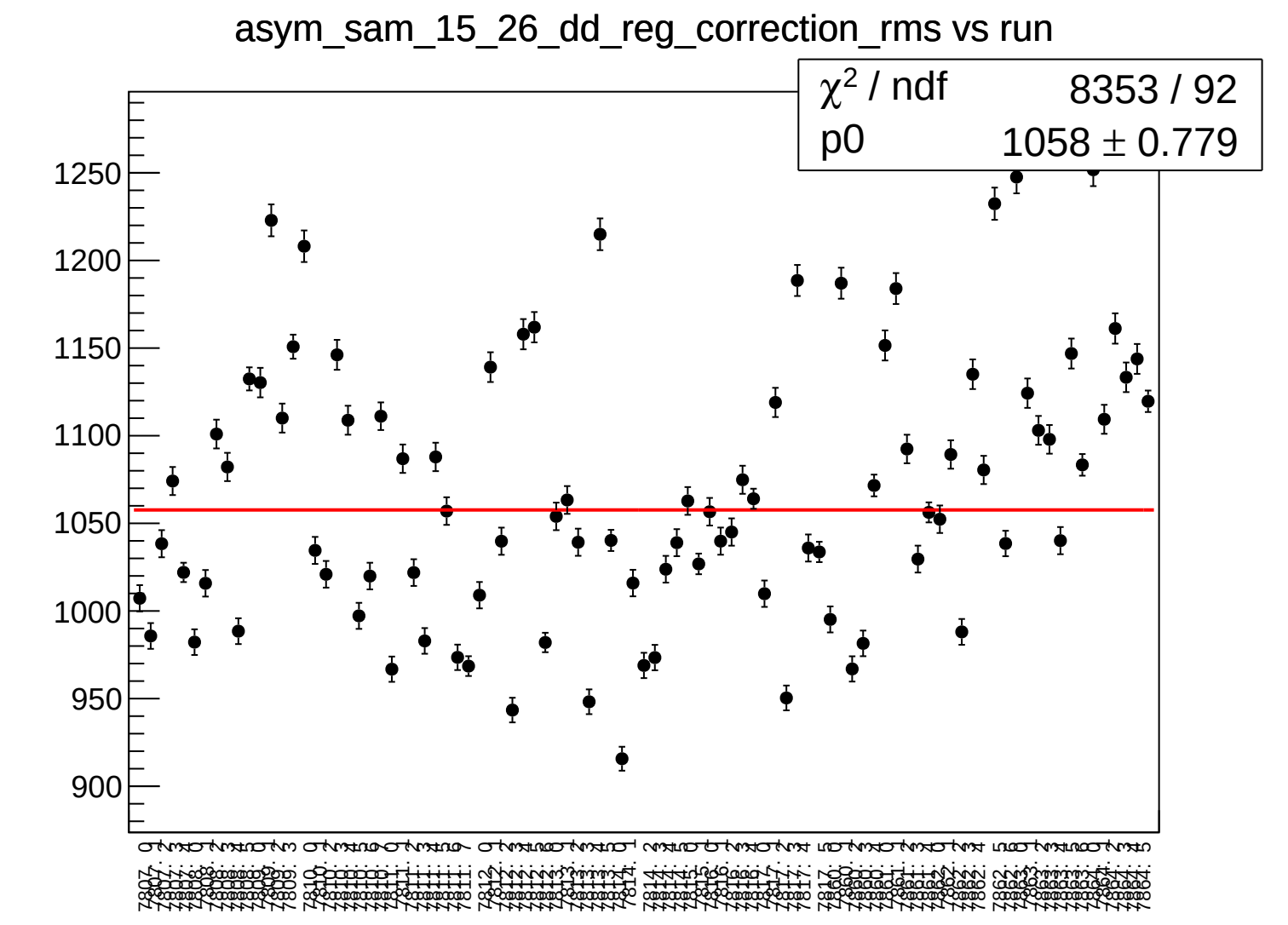

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.038e+06 / 92
p0 1.761e−11 ± 1.953e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

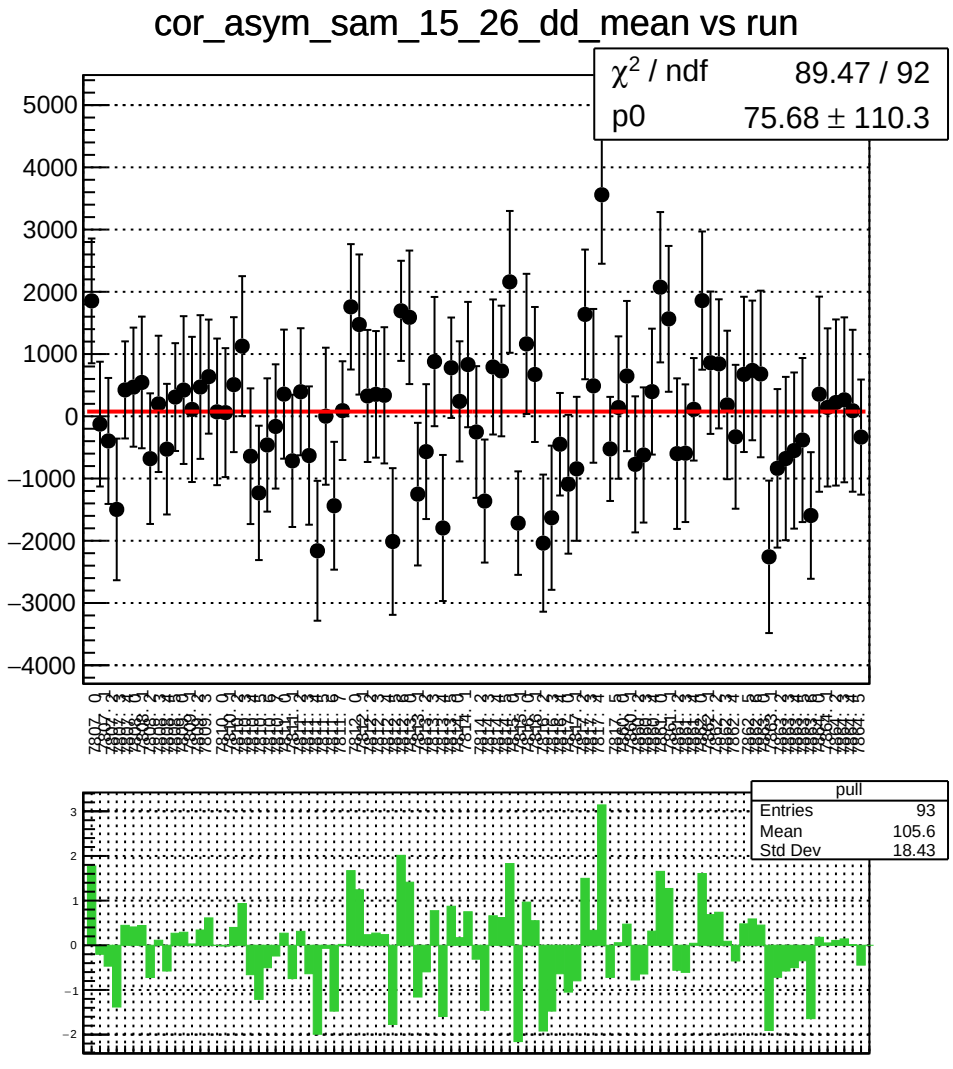

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 89.47 / 92
p0 75.69 ± 110.3
pull
Entries 93
Mean 105.6
Std Dev 18.62
pull1D
Entries 93
Mean −0.007581
Std Dev 0.9808

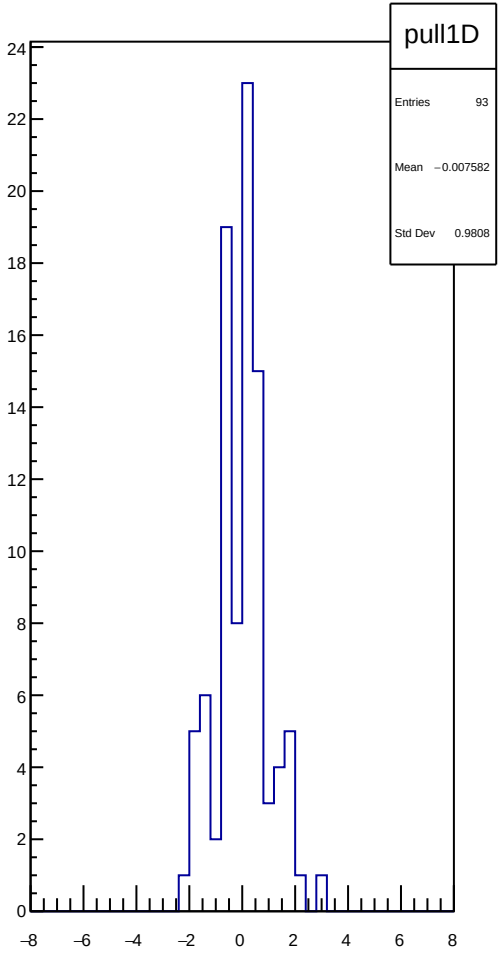

reg_asym_sam_15_26_dd_rms vs run
χ^2 / ndf 1.277e+04 / 92
p0 105.8 ± 0.07801
150
140
130
120
110
100
90

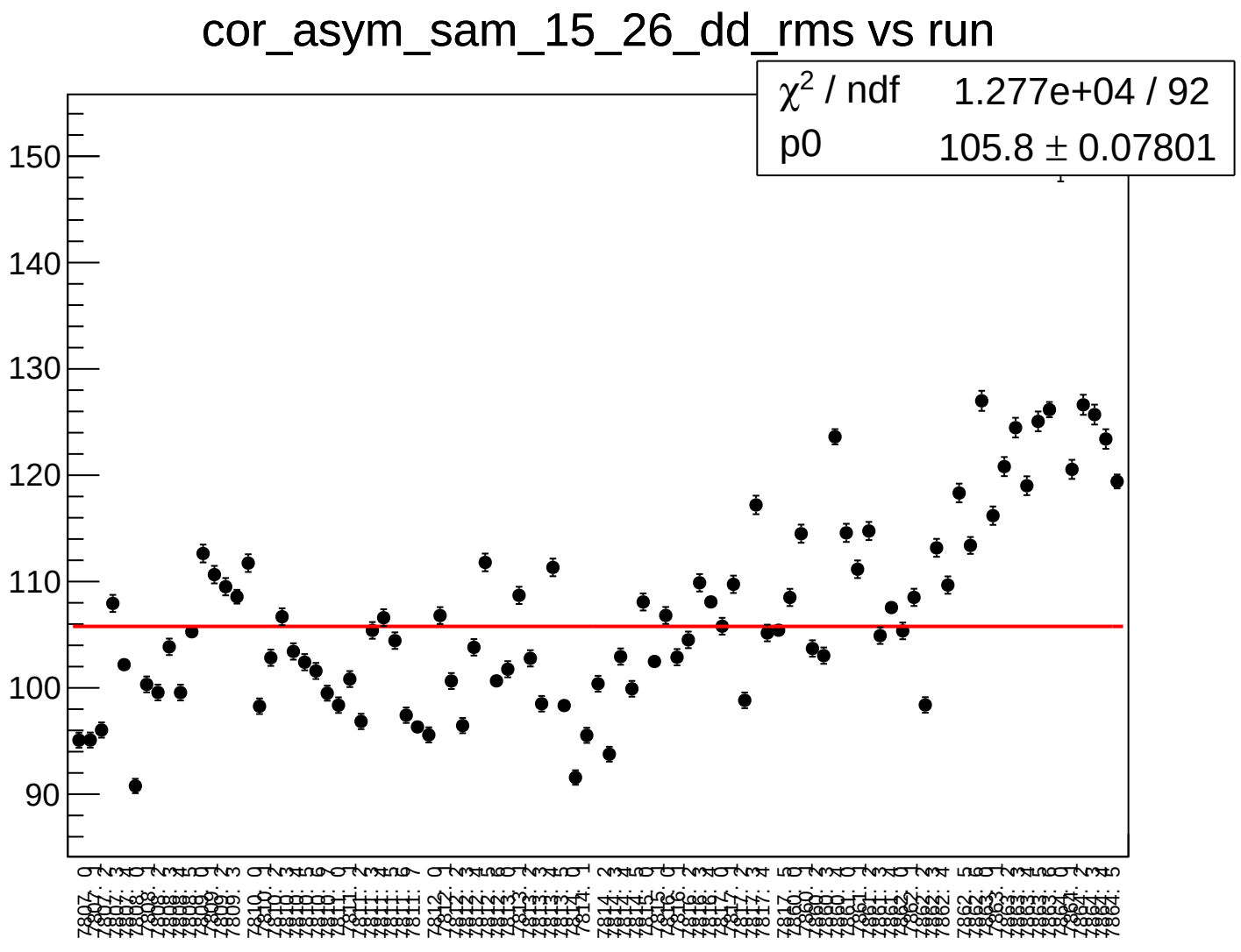

asym_sam_15_26_dd_reg_correction_mean vs run
χ² / ndf 88.26 / 92
p0 155 ± 1102
pull
Entries 93
Mean −7.902
Std Dev 58.08

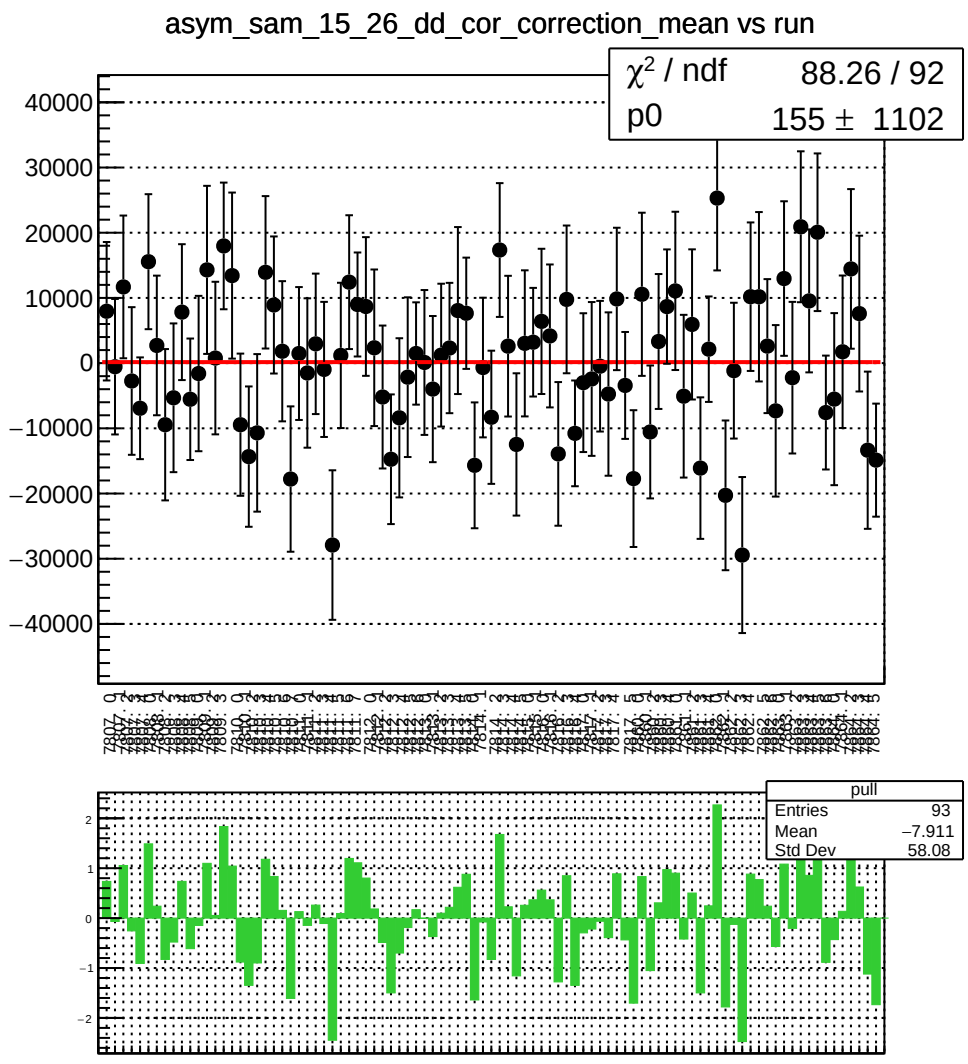

pull1D
Entries 93
Mean 0.009597
Std Dev 0.9741

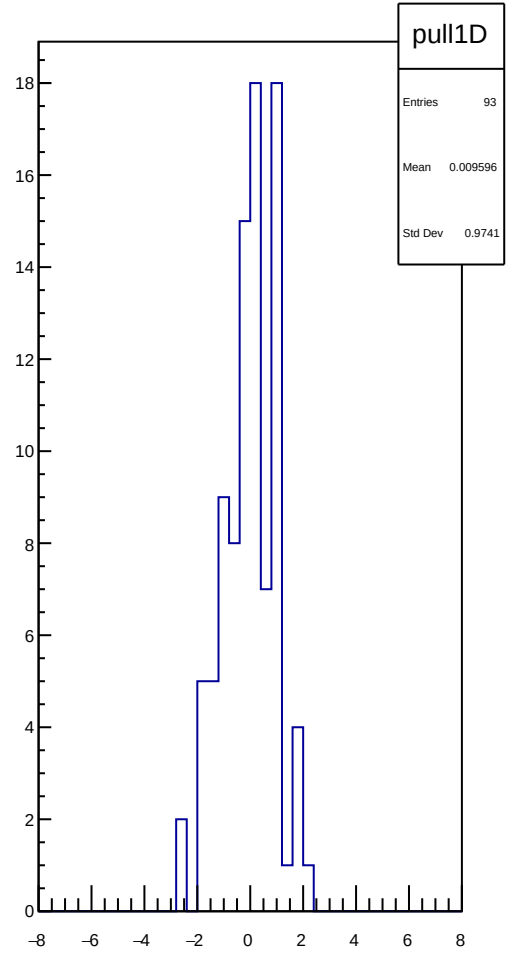

asym_sam_15_26_dd_reg_correction_rms vs run
χ² / ndf 8353 / 92
p0 1058 ± 0.779
1250
1200
1150
1100
1050
1000
950
900

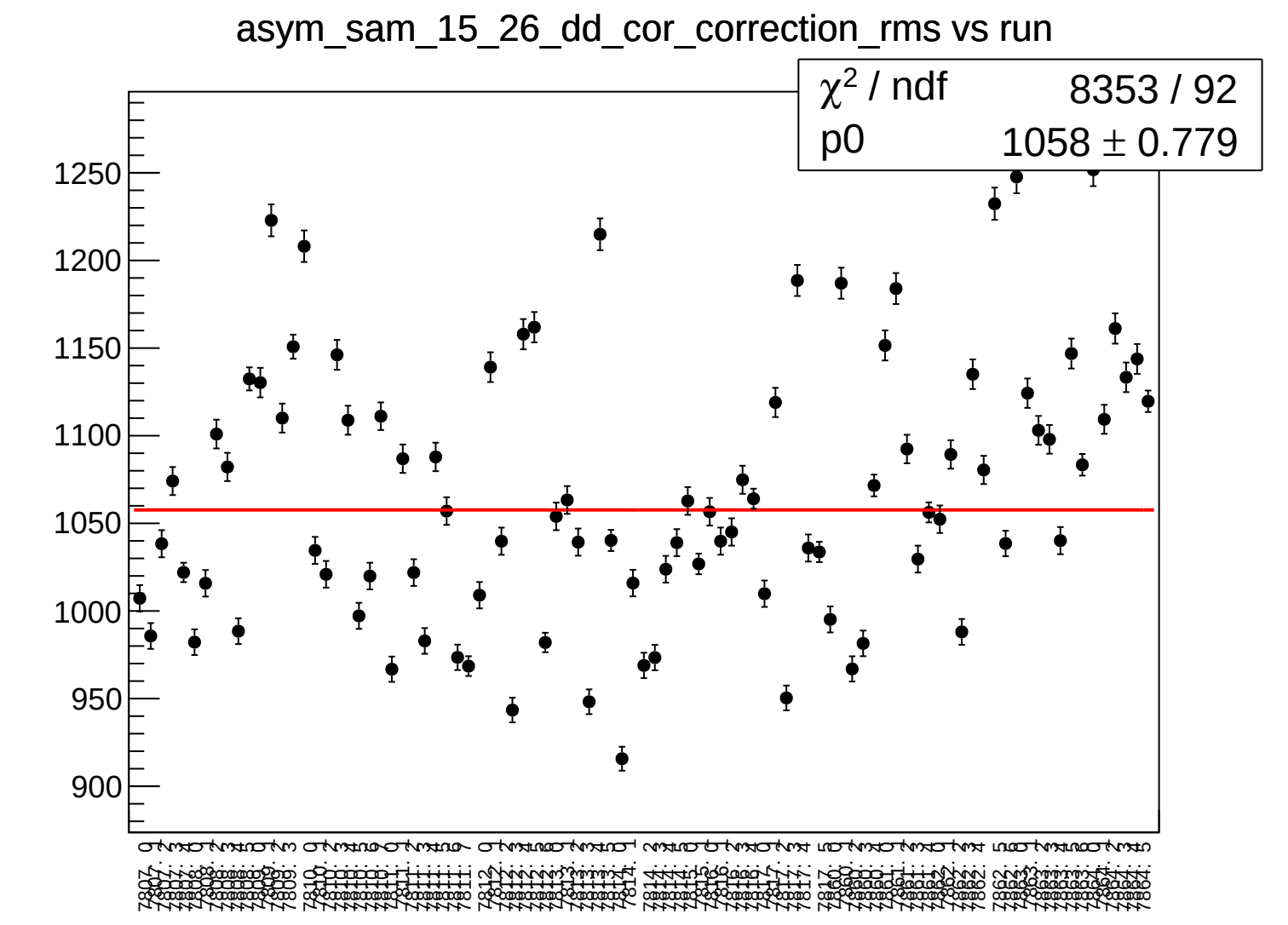

cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 89.47 / 92
p0 75.68 ± 110.3
pull
Entries 93
Mean 105.6
Std Dev 18.43

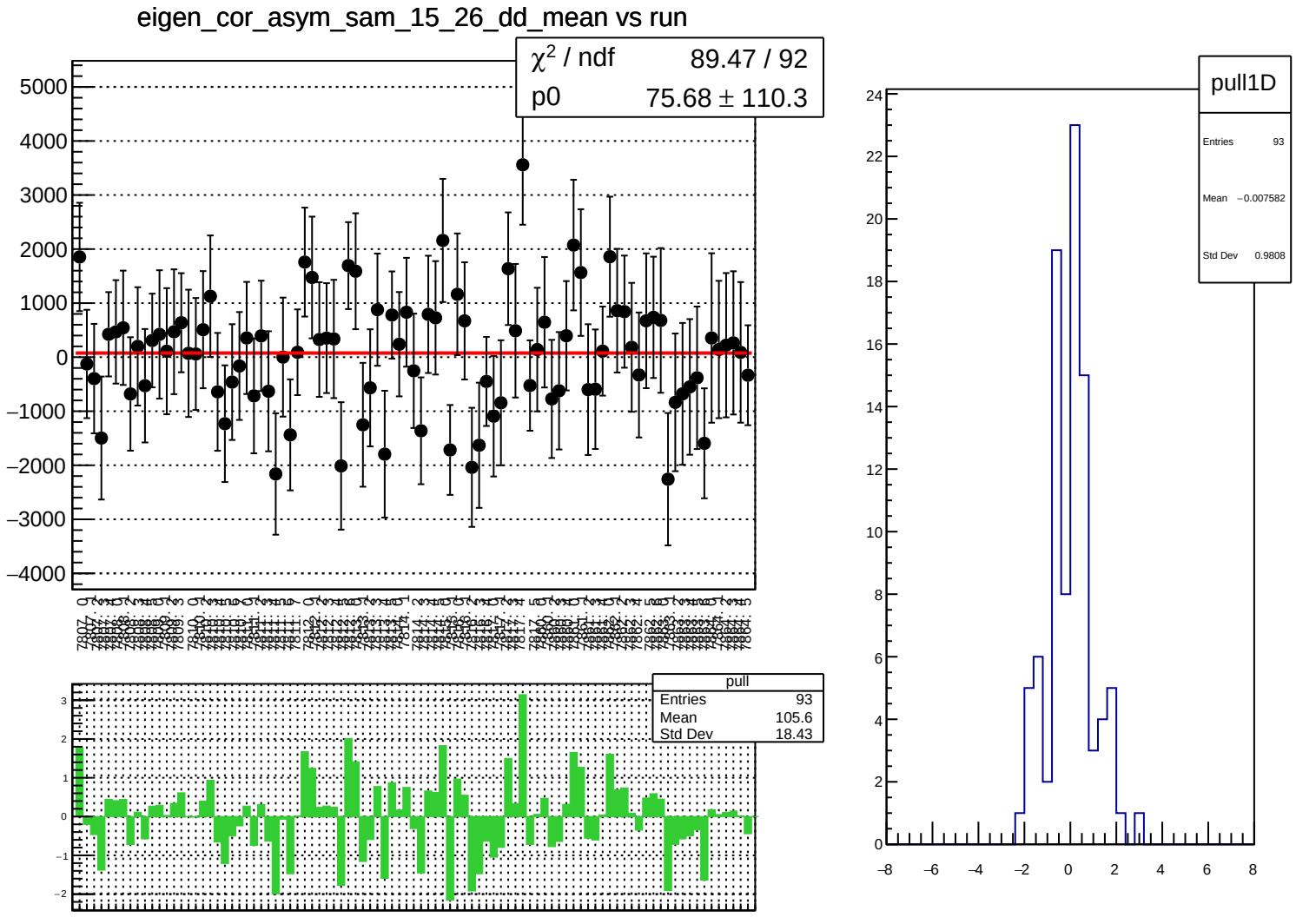

pull1D
Entries 93
Mean −0.007582
Std Dev 0.9808

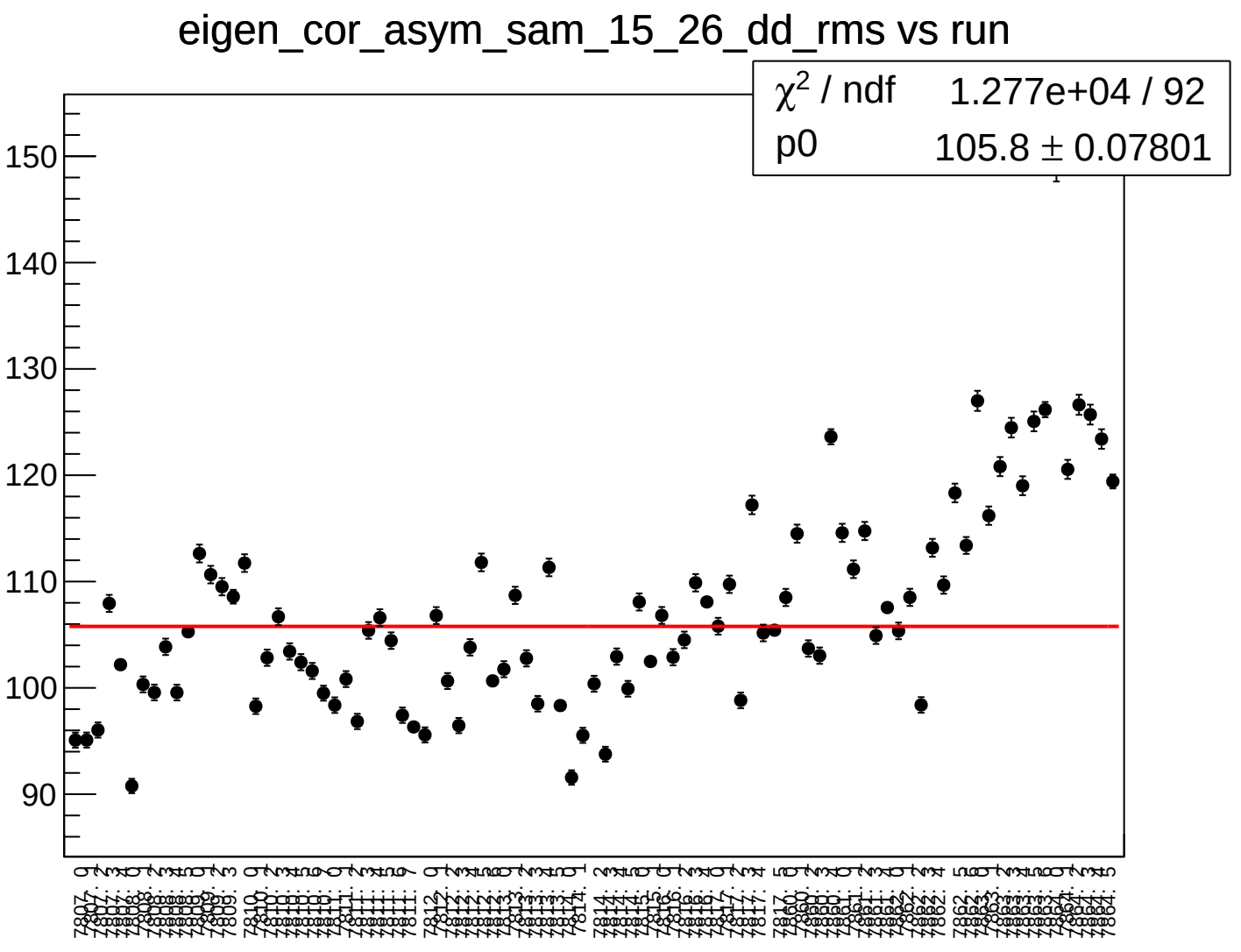

cor_asym_sam_15_26_dd_rms vs run
χ^2 / ndf 1.277e+04 / 92
p0 105.8 ± 0.07801
150
140
130
120
110
100
90

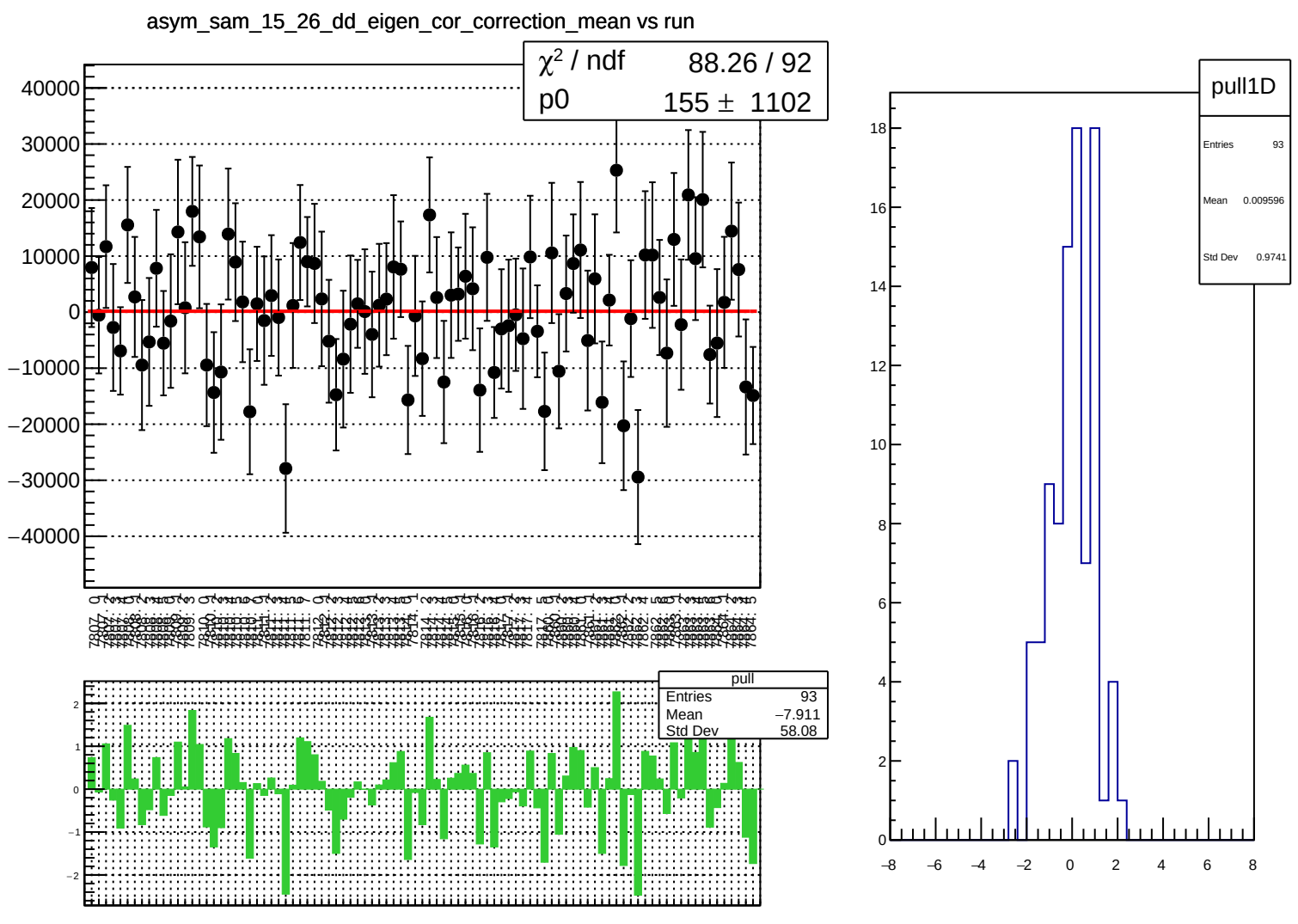

asym_sam_15_26_dd_cor_correction_mean vs run
χ² / ndf 88.26 / 92
p0 155 ± 1102
pull
Entries 93
Mean −7.911
Std Dev 58.08

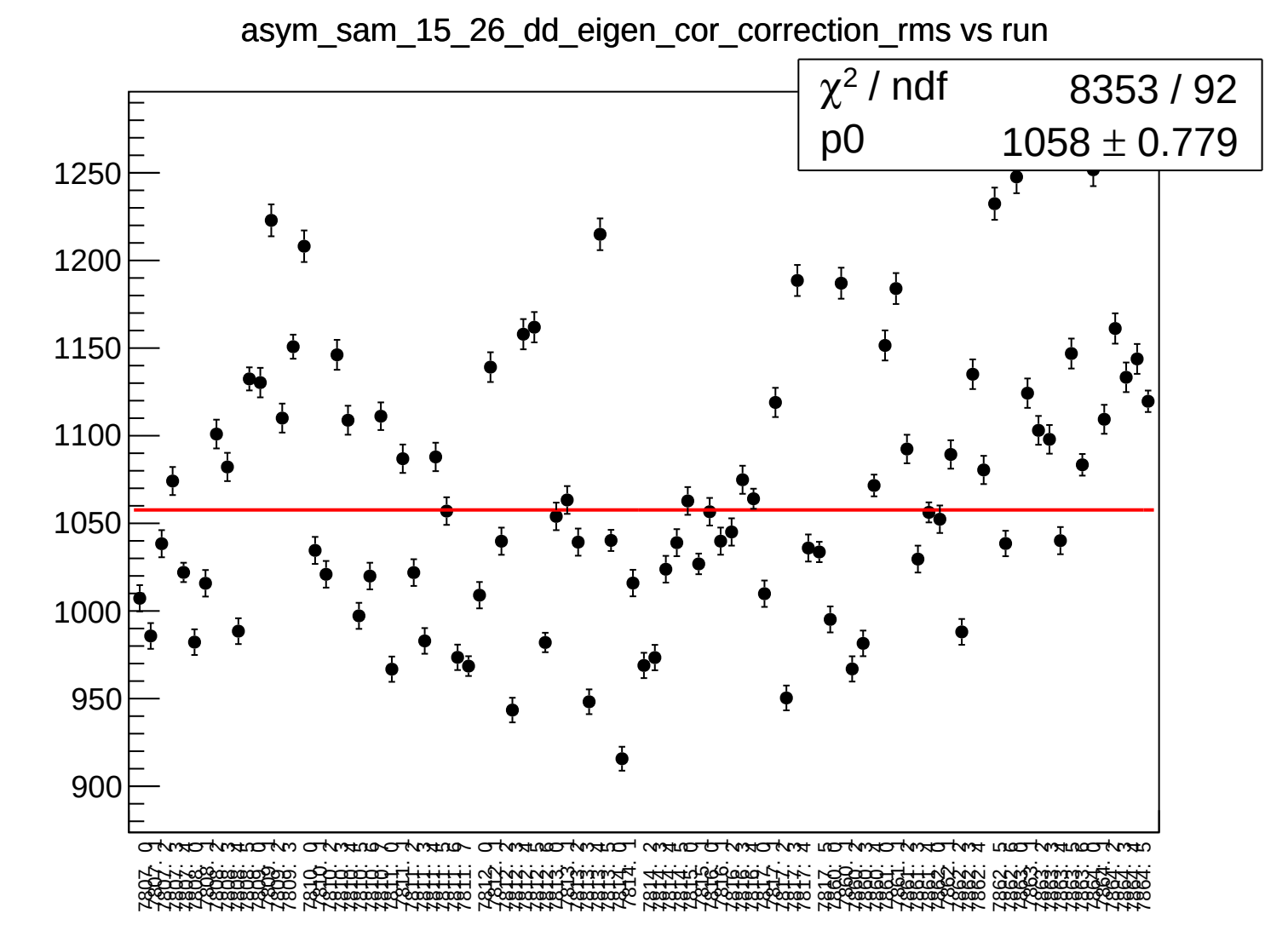

pull1D
Entries 93
Mean 0.009596
Std Dev 0.9741

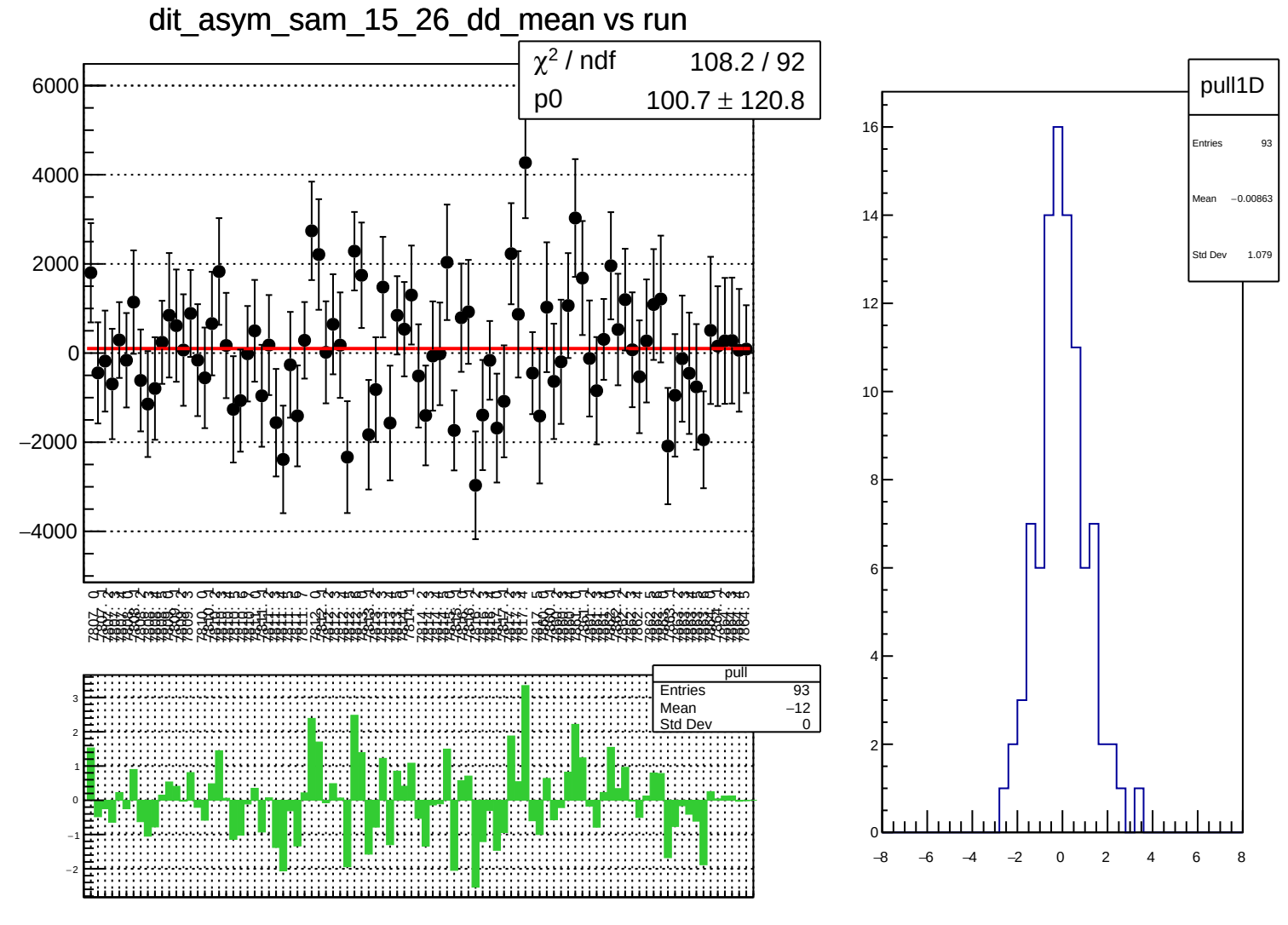

asym_sam_15_26_dd_cor_correction_rms vs run
χ² / ndf 8353 / 92
p0 1058 ± 0.779
1250
1200
1150
1100
1050
1000
950
900

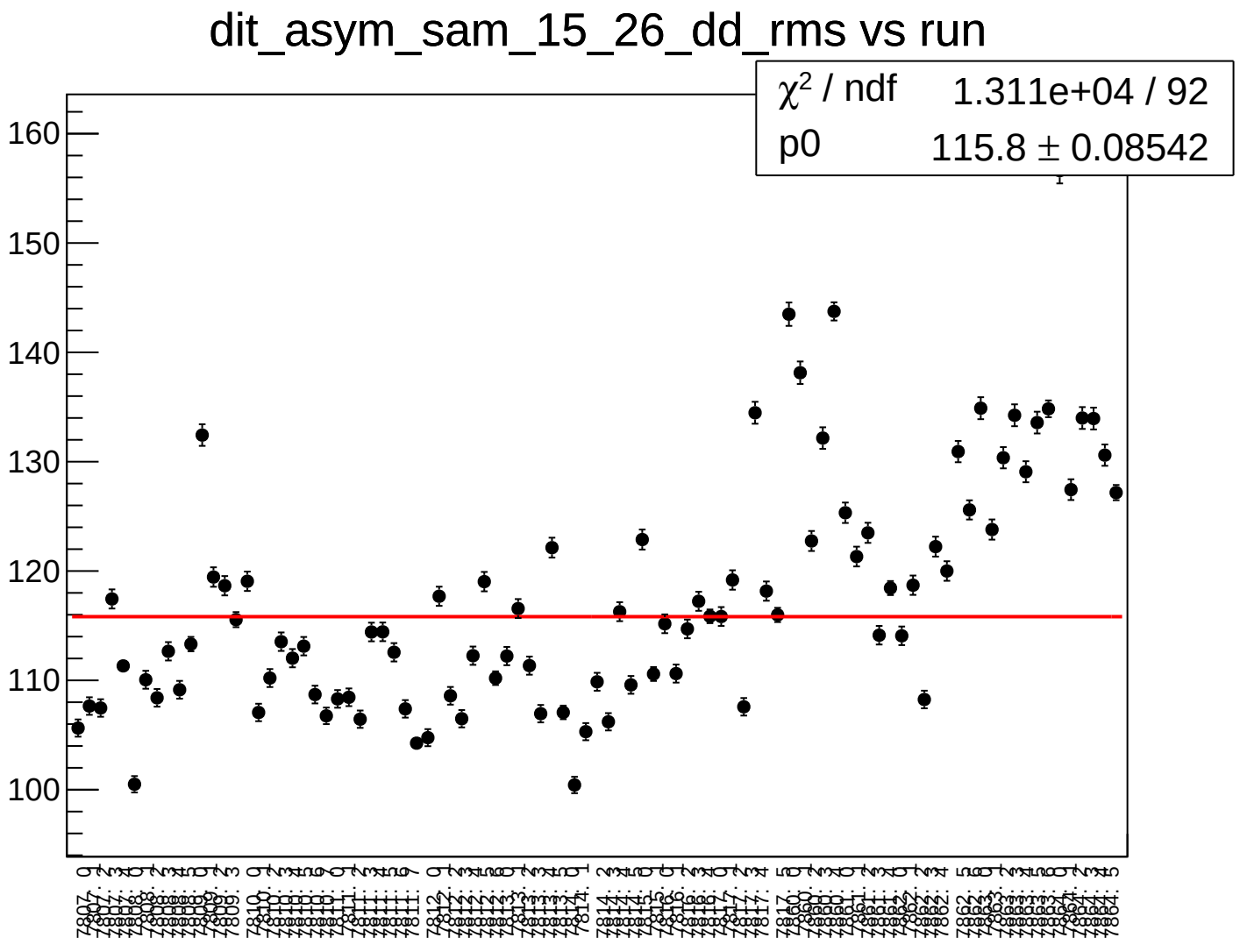

eigen_cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 89.47 / 92
p0 75.68 ± 110.3
pull
Entries 93
Mean 105.6
Std Dev 18.43
pull1D
Entries 93
Mean −0.007582
Std Dev 0.9808

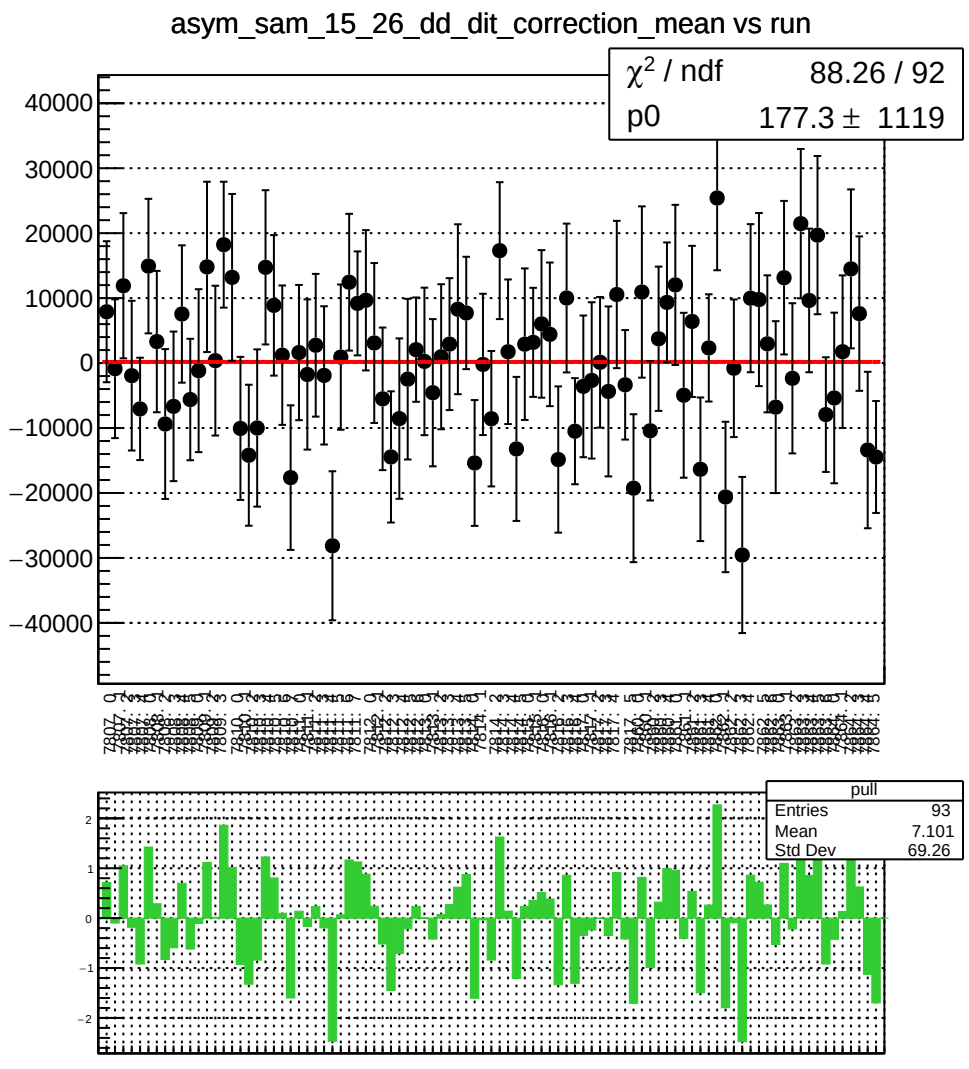

eigen_cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 1.277e+04 / 92
p0 105.8 ± 0.07801
150
140
130
120
110
100
90

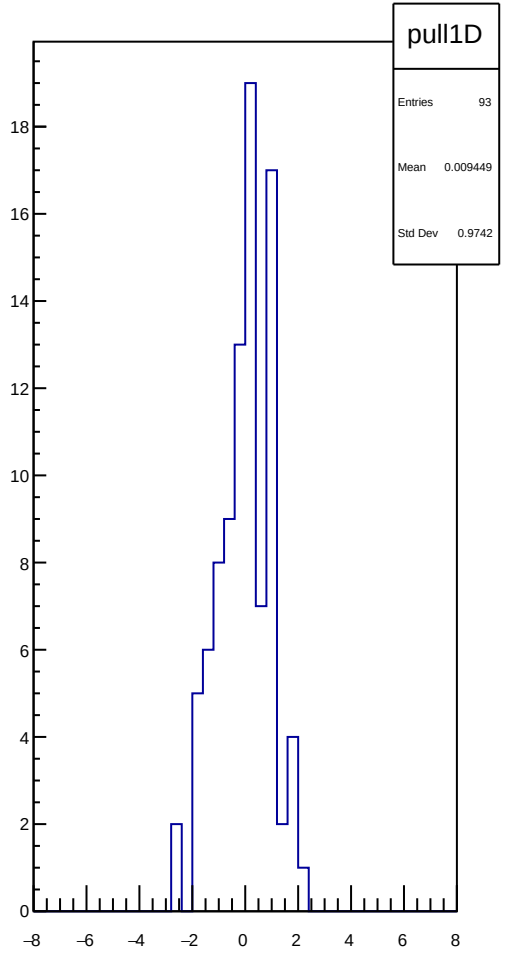

asym_sam_15_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 88.26 / 92
p0 155 ± 1102
pull
Entries 93
Mean −7.911
Std Dev 58.08
pull1D
Entries 93
Mean 0.009596
Std Dev 0.9741

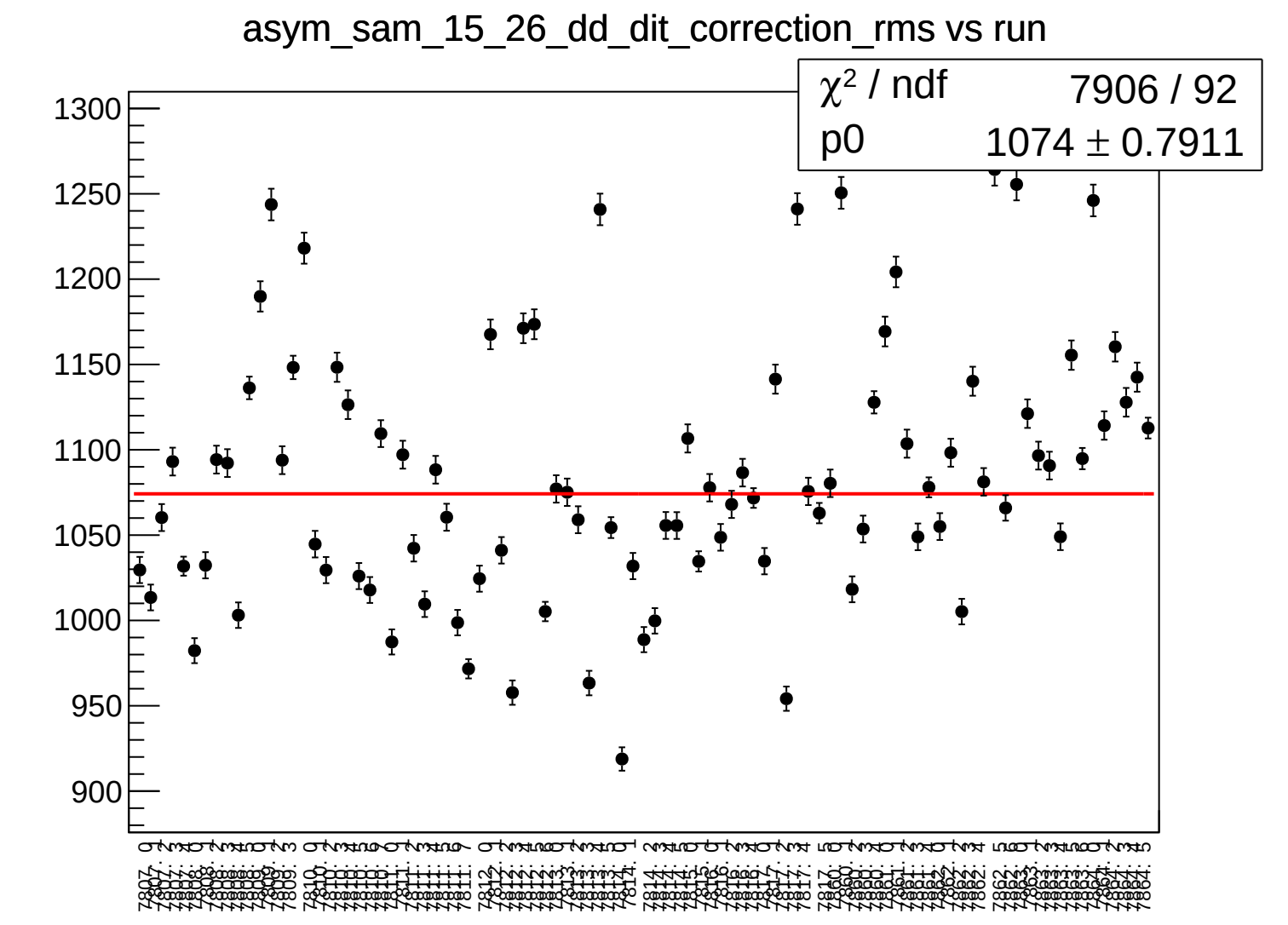

asym_sam_15_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 8353 / 92
p0 1058 ± 0.779
1250
1200
1150
1100
1050
1000
950
900

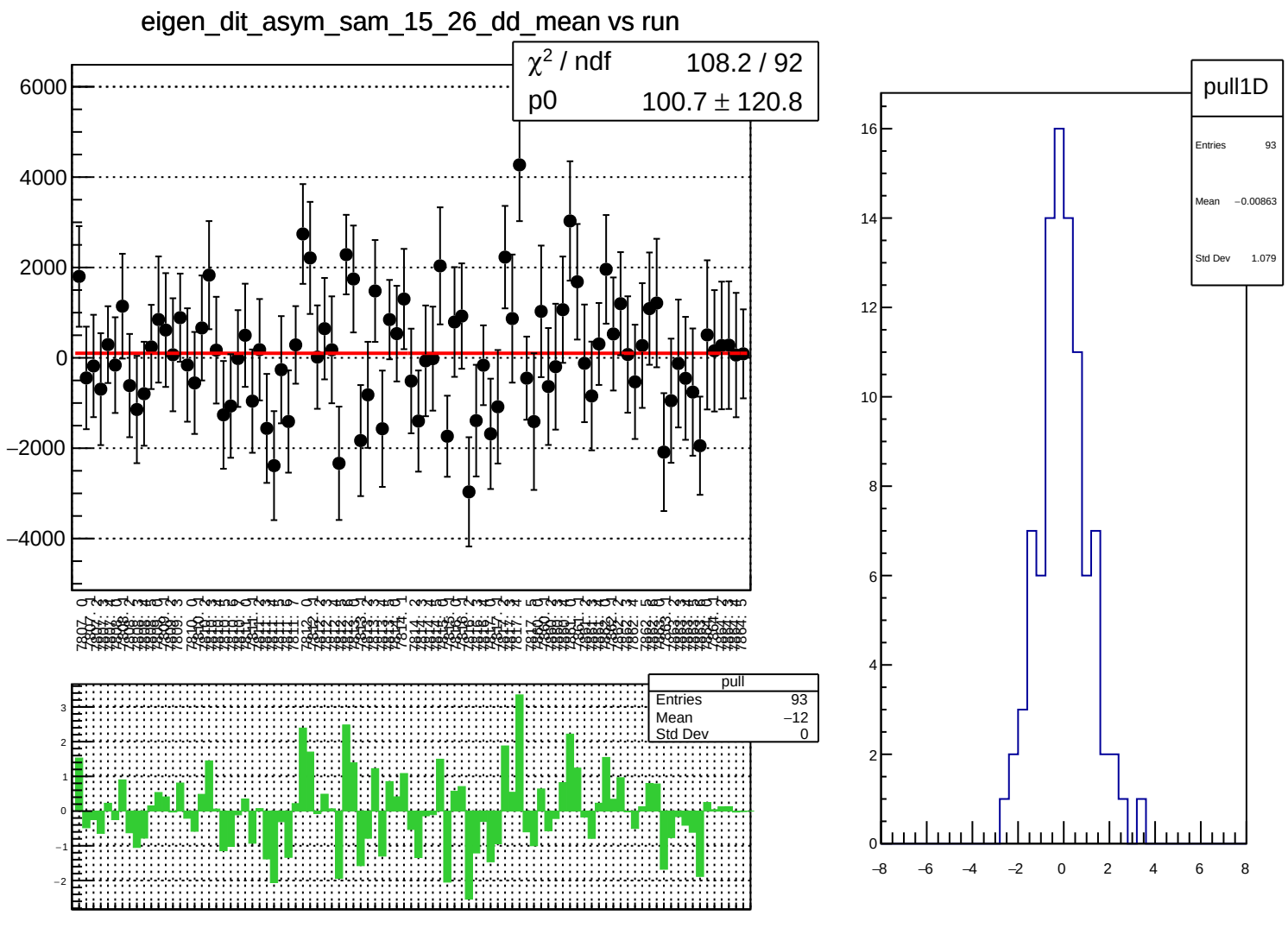

dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 108.2 / 92
p0 100.7 ± 120.8
6000
4000
2000
0
−2000
−4000
pull
Entries 93
Mean −12
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.00863
Std Dev 1.079
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

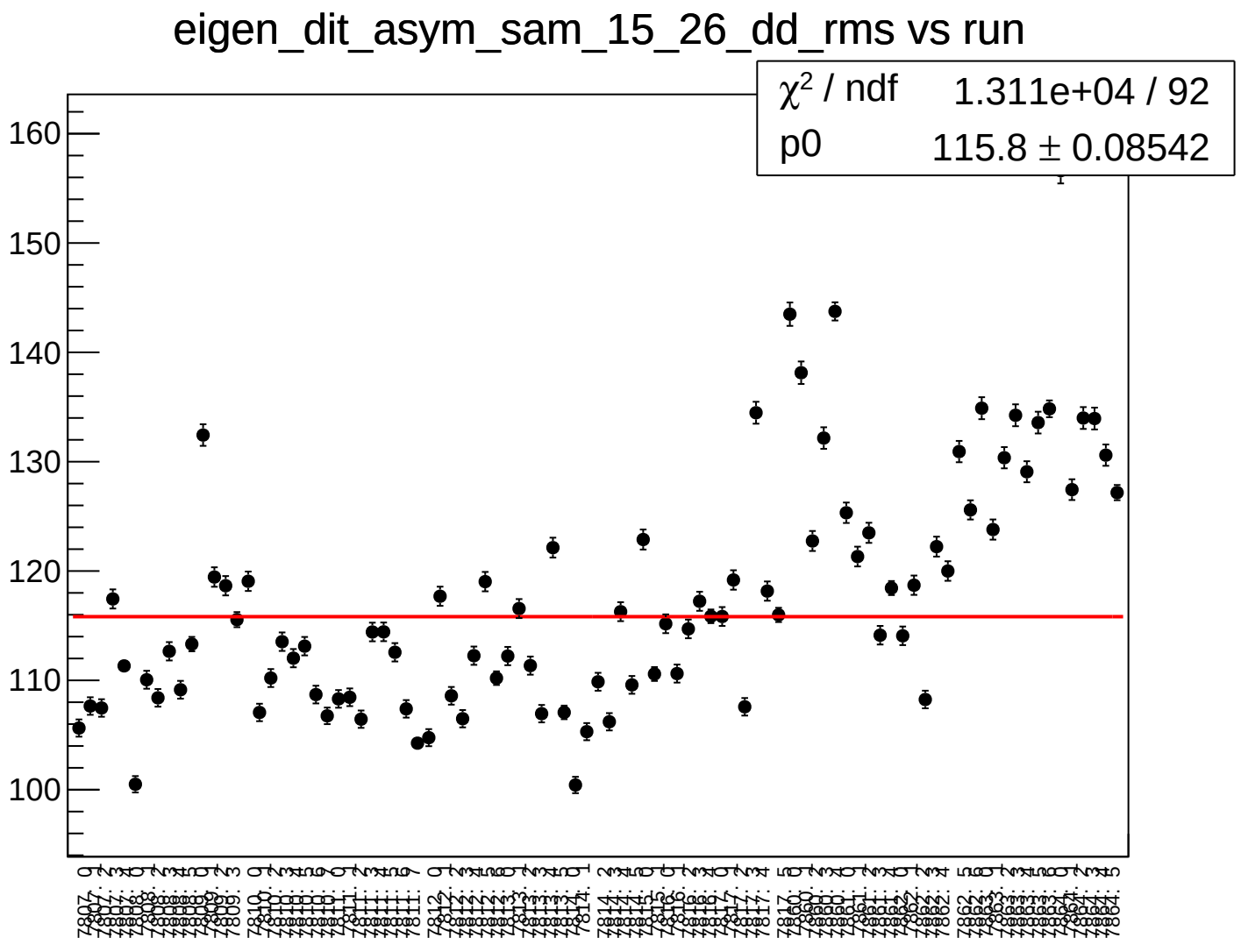

dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 1.311e+04 / 92
p0 115.8 ± 0.08542
160
150
140
130
120
110
100

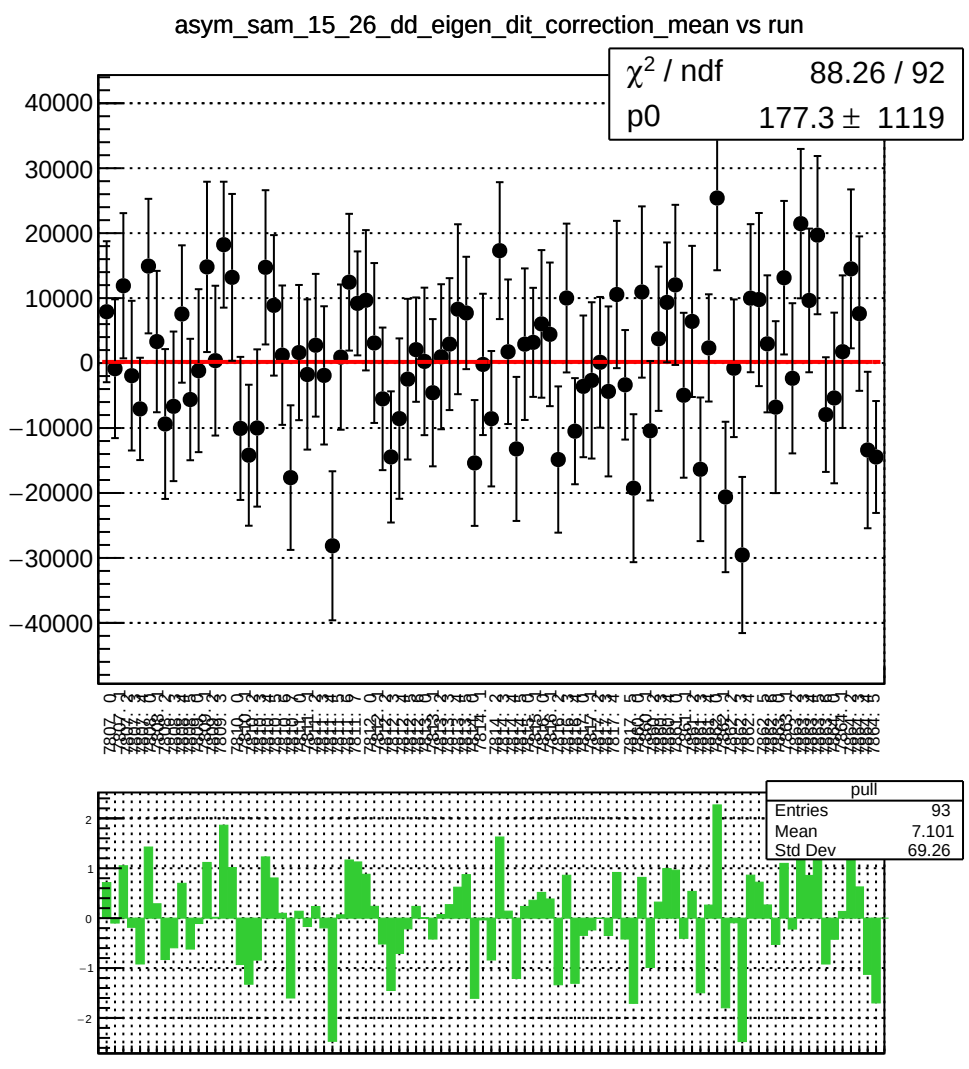

asym_sam_15_26_dd_dit_correction_mean vs run
χ² / ndf 88.26 / 92
p0 177.3 ± 1119
pull
Entries 93
Mean 7.101
Std Dev 69.26

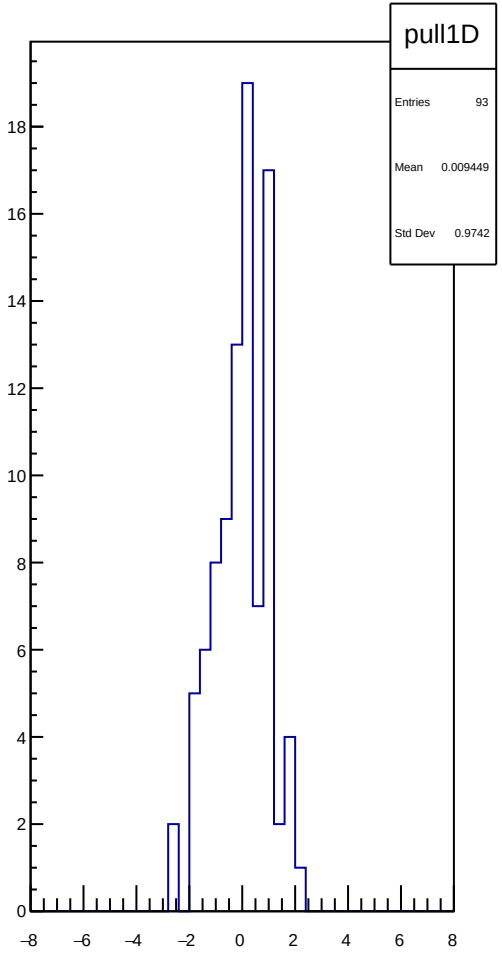

pull1D
Entries 93
Mean 0.009449
Std Dev 0.9742

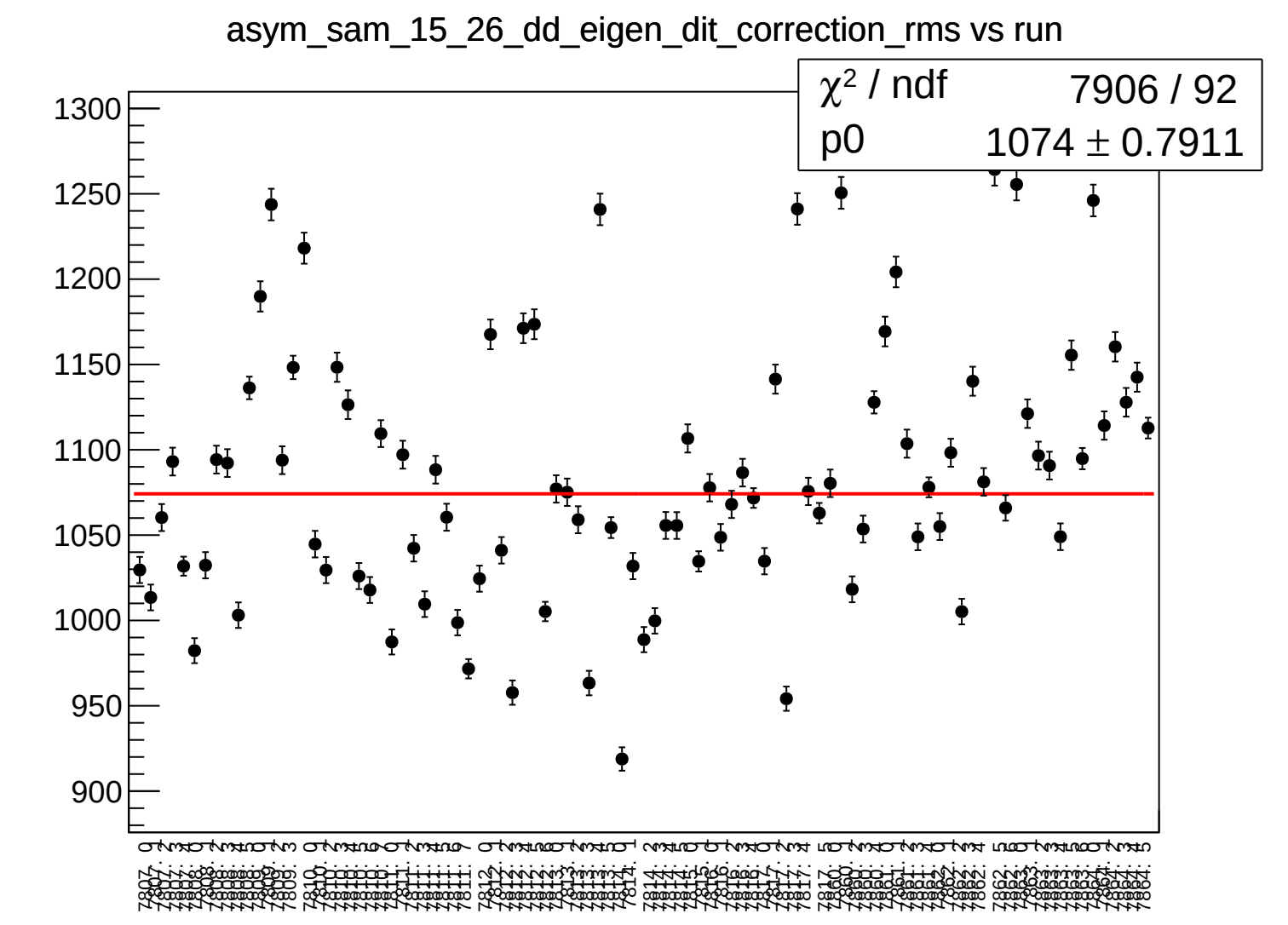

asym_sam_15_26_dd_dit_correction_rms vs run
χ² / ndf 7906 / 92
p0 1074 ± 0.7911
1300
1250
1200
1150
1100
1050
1000
950
900

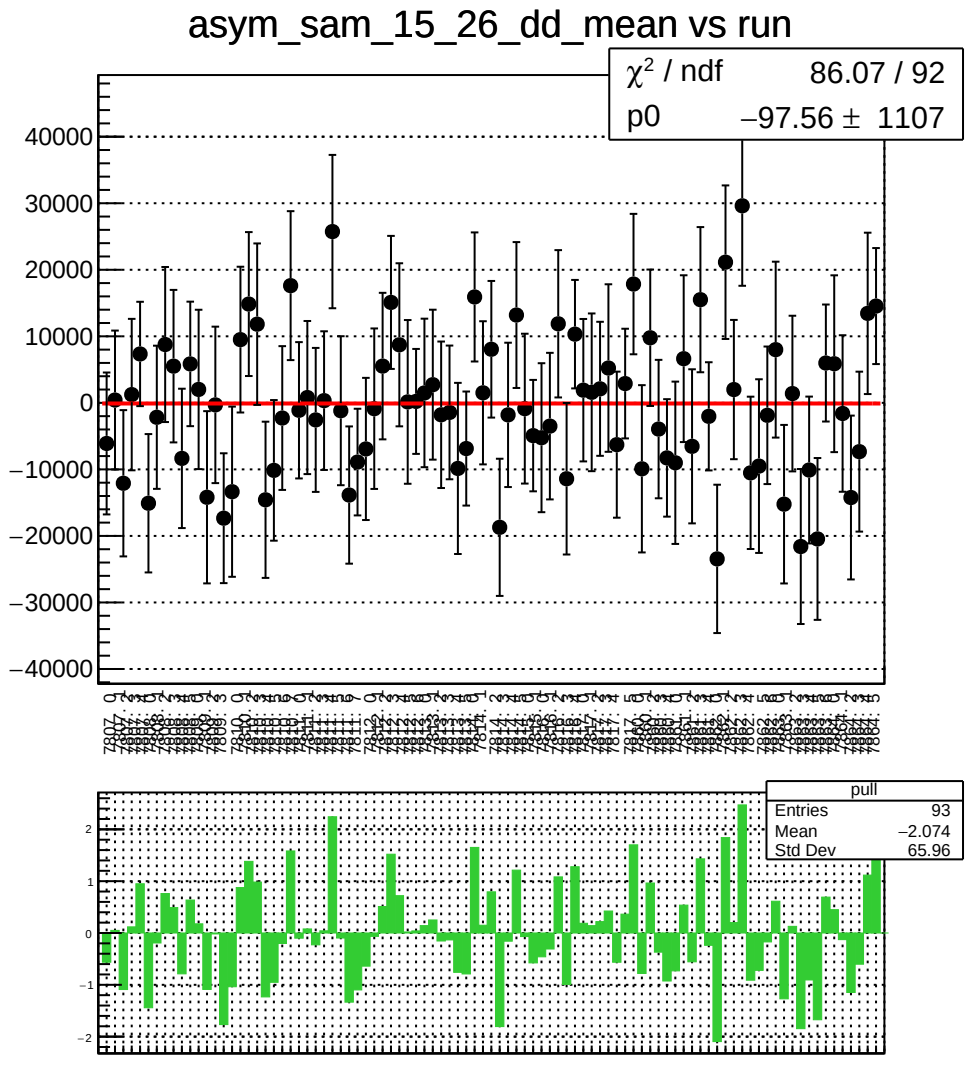

eigen_dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 108.2 / 92
p0 100.7 ± 120.8
6000
4000
2000
0
−2000
−4000
pull
Entries 93
Mean −12
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.00863
Std Dev 1.079
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

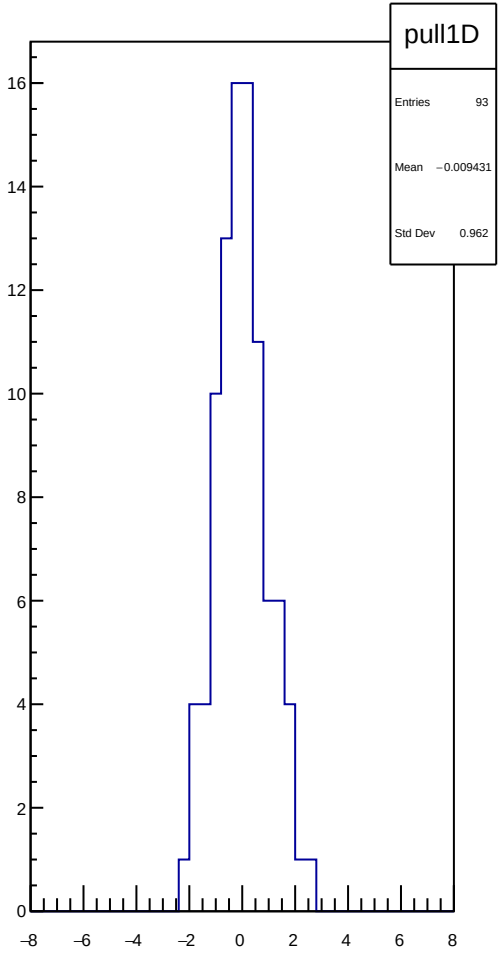

eigen_dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 1.311e+04 / 92
p0 115.8 ± 0.08542
160
150
140
130
120
110
100

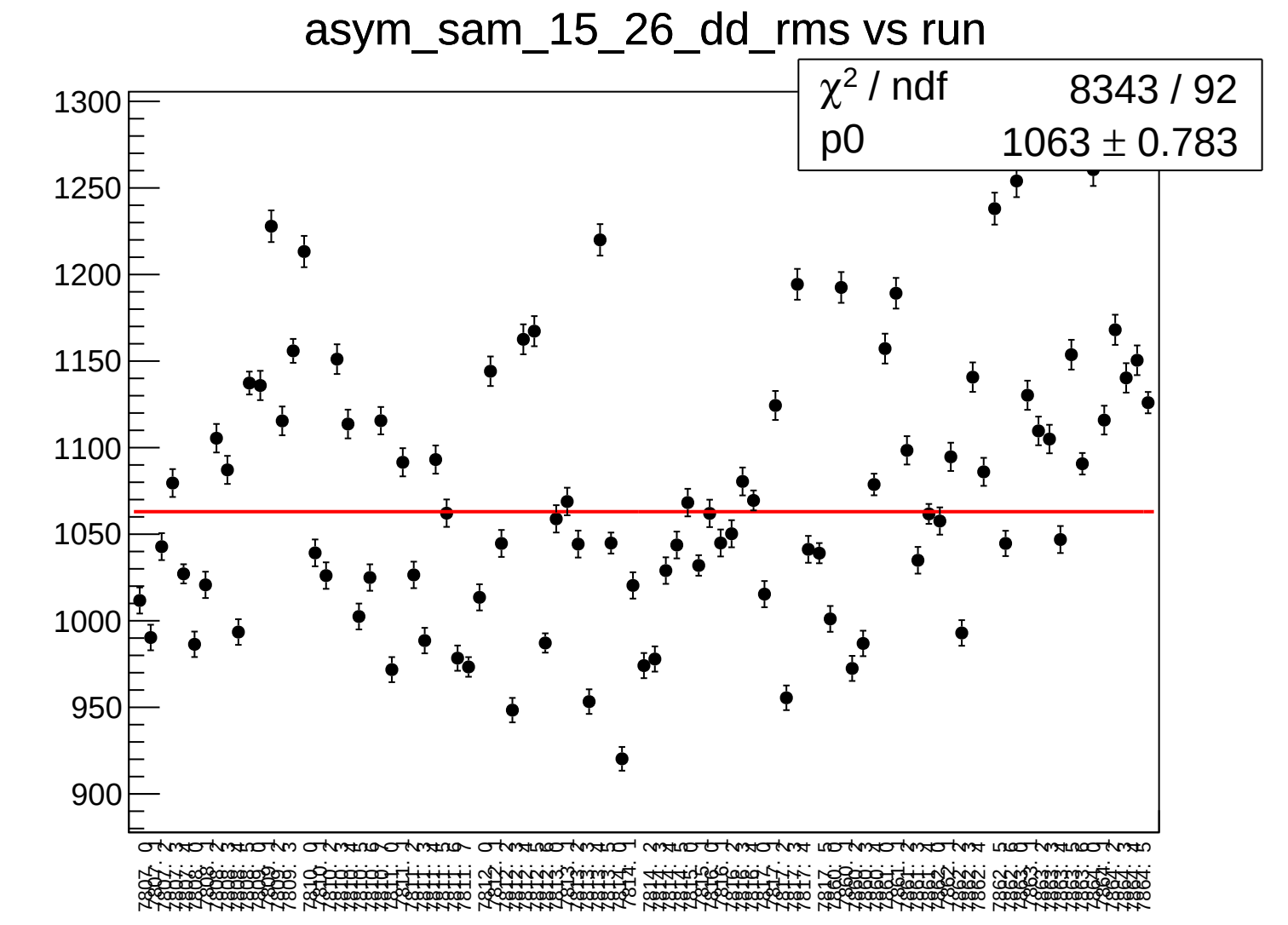

asym_sam_15_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 88.26 / 92
p0 177.3 ± 1119
pull
Entries 93
Mean 7.101
Std Dev 69.26

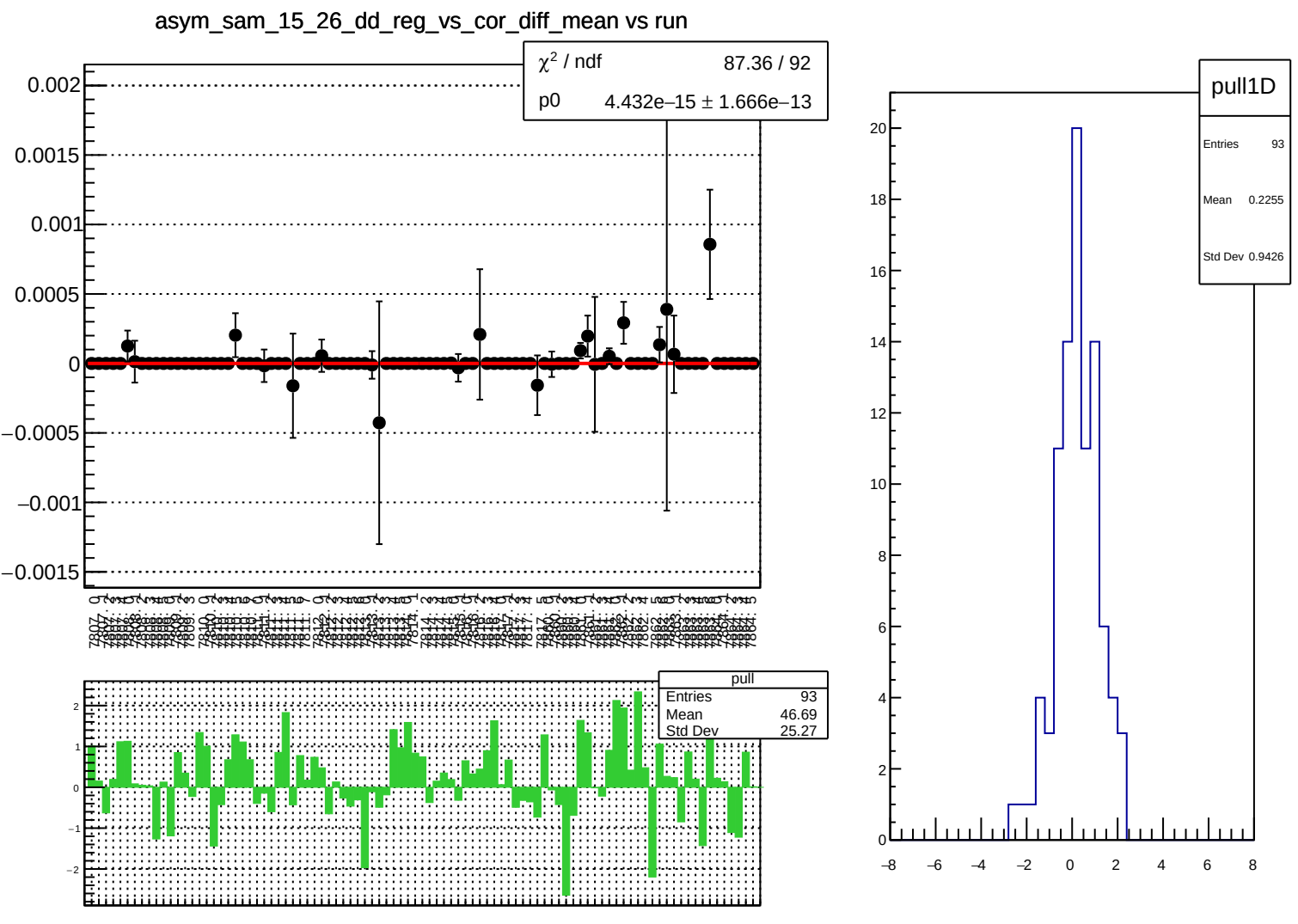

pull1D
Entries 93
Mean 0.009449
Std Dev 0.9742

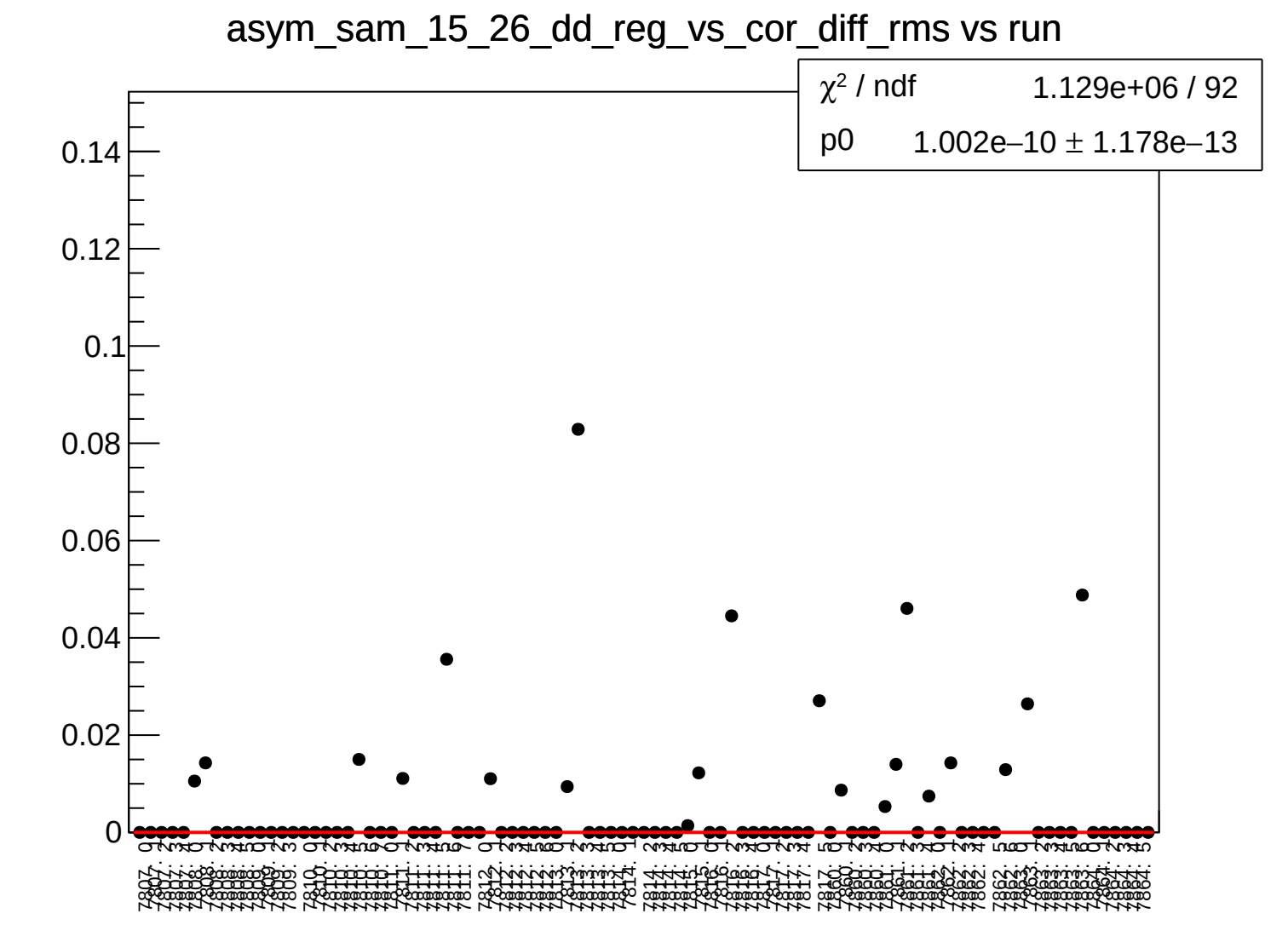

asym_sam_15_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 7906 / 92
p0 1074 ± 0.7911
1300
1250
1200
1150
1100
1050
1000
950
900

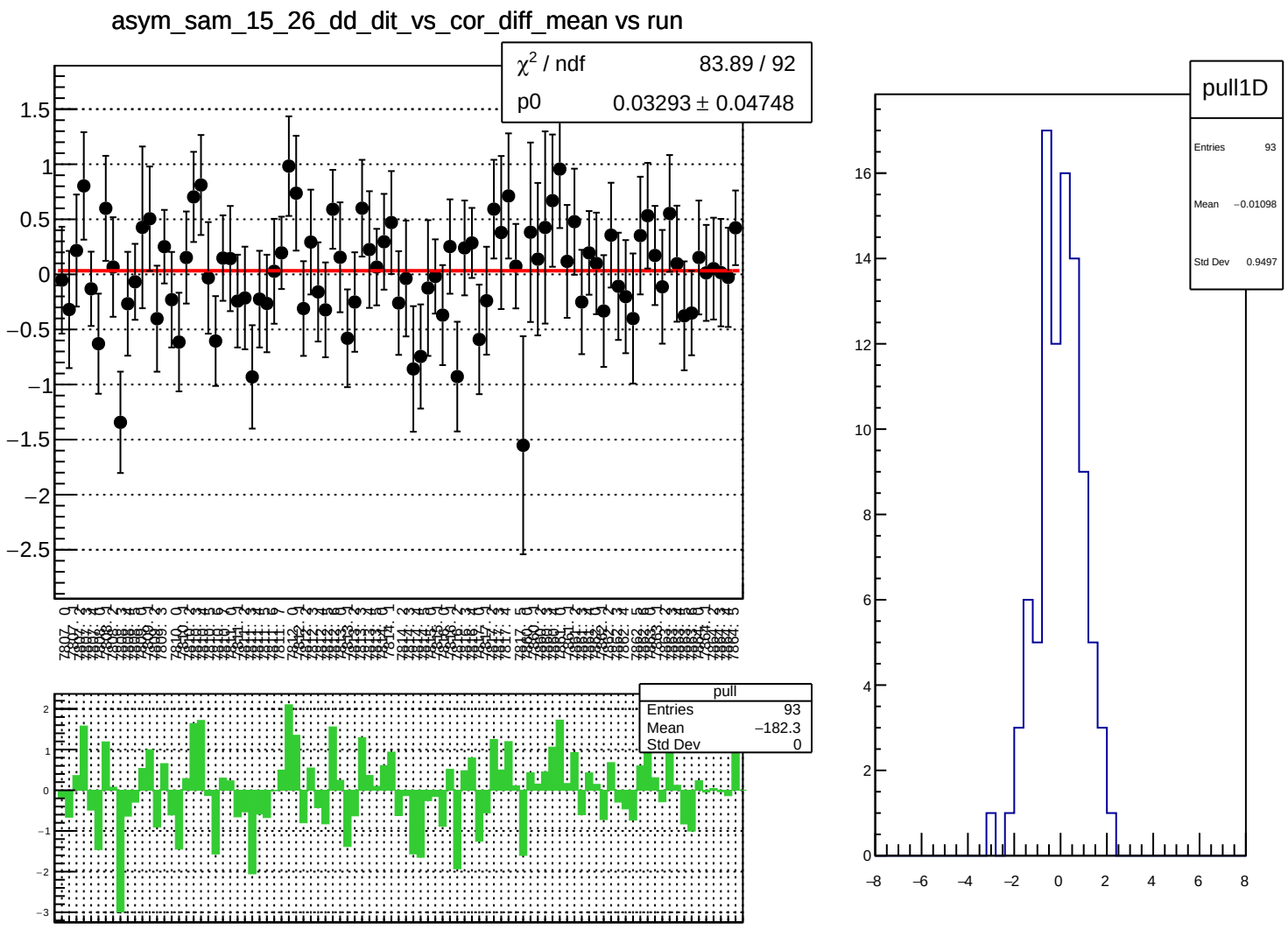

asym_sam_15_26_dd_mean vs run
χ² / ndf 86.07 / 92
p0 −97.56 ± 1107
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean −2.074
Std Dev 65.96
2
1
0
−1
−2

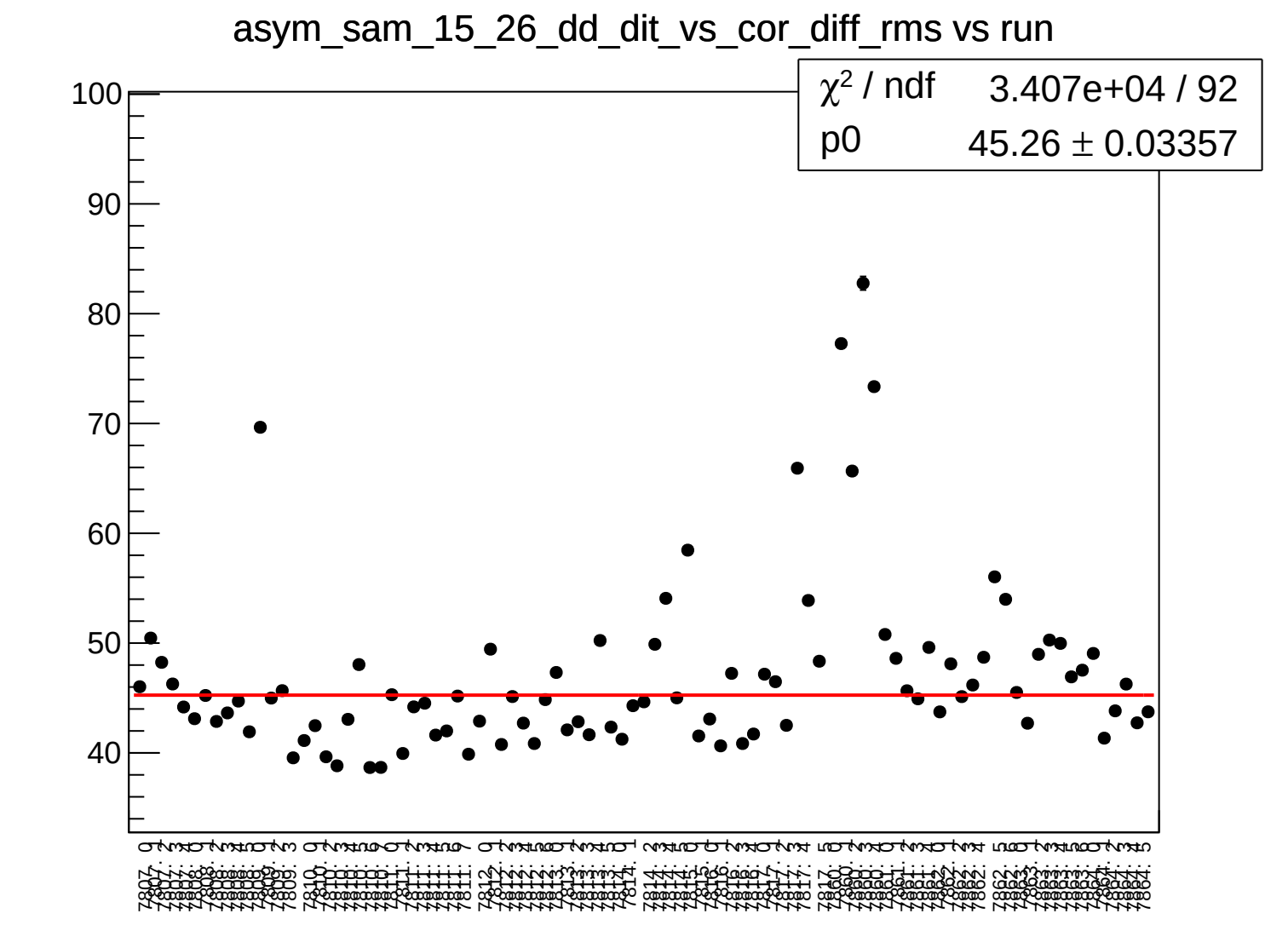

pull1D
Entries 93
Mean −0.009431
Std Dev 0.962
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

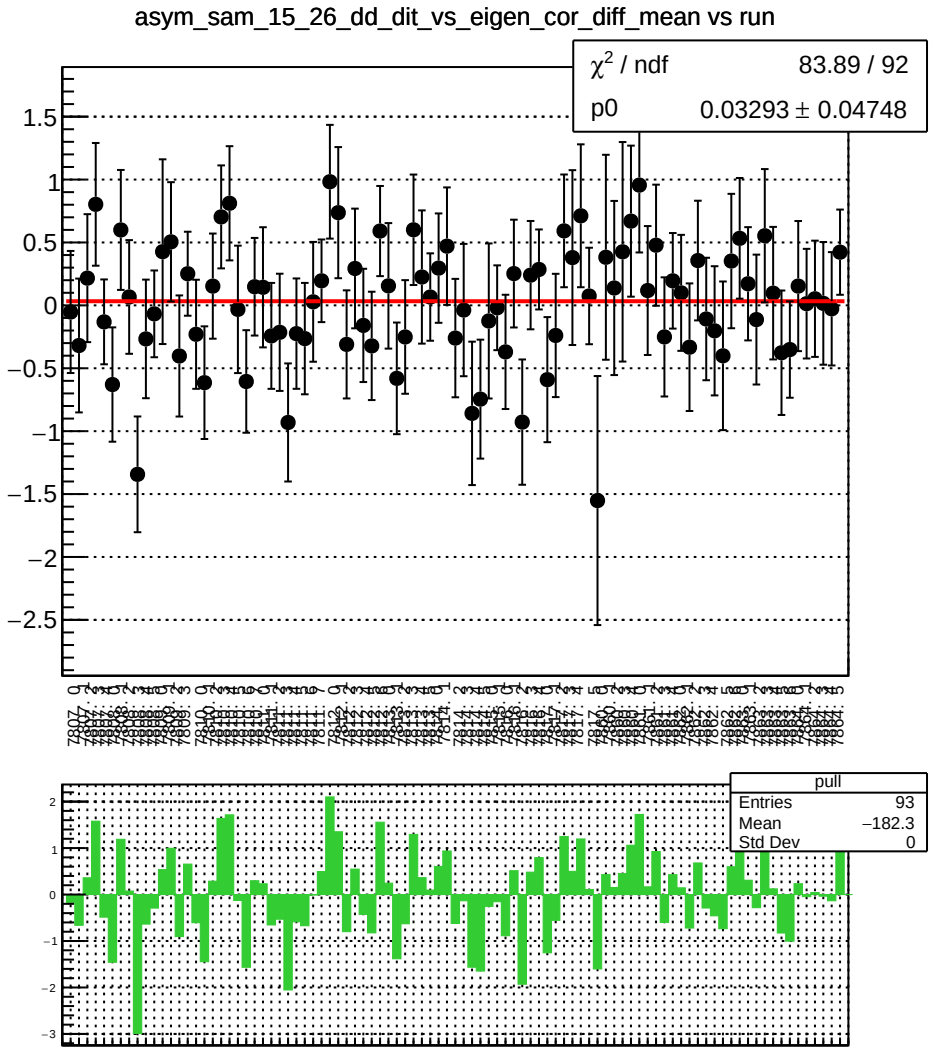

asym_sam_15_26_dd_rms vs run
χ² / ndf 8343 / 92
p0 1063 ± 0.783
1300
1250
1200
1150
1100
1050
1000
950
900

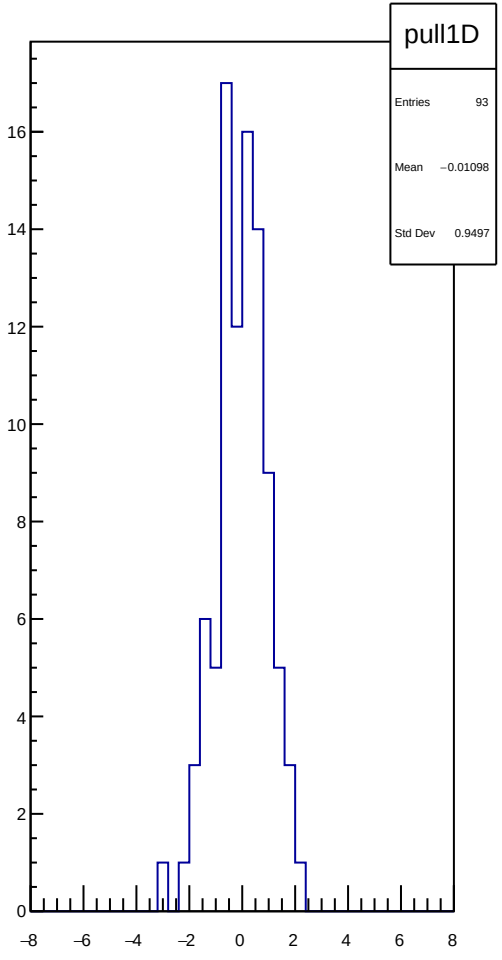

asym_sam_15_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 87.36 / 92
p0 4.432e−15 ± 1.666e−13
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 93
Mean 46.69
Std Dev 25.27
pull1D
Entries 93
Mean 0.2255
Std Dev 0.9426

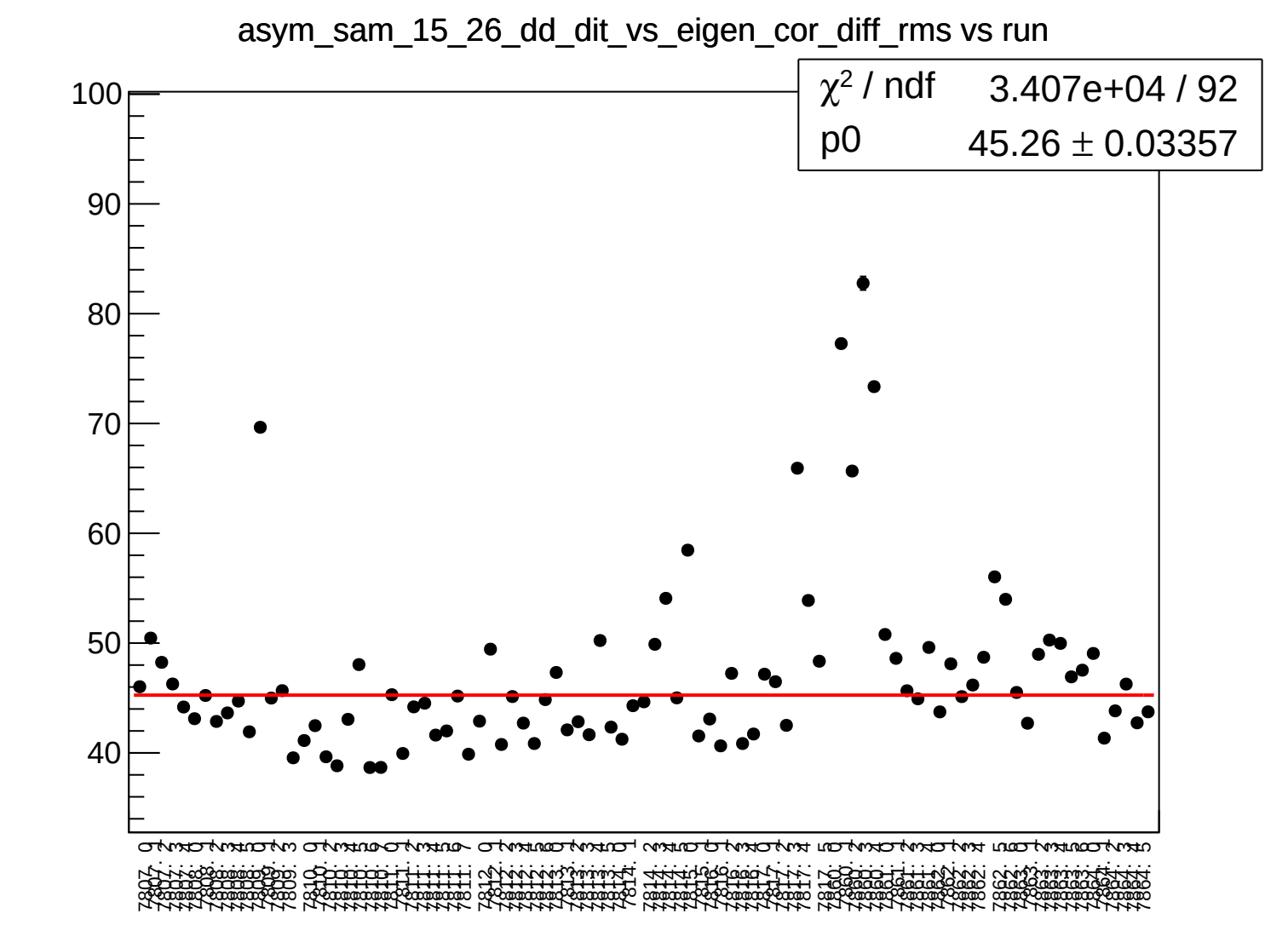

asym_sam_15_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.129e+06 / 92
p0 1.002e−10 ± 1.178e−13
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

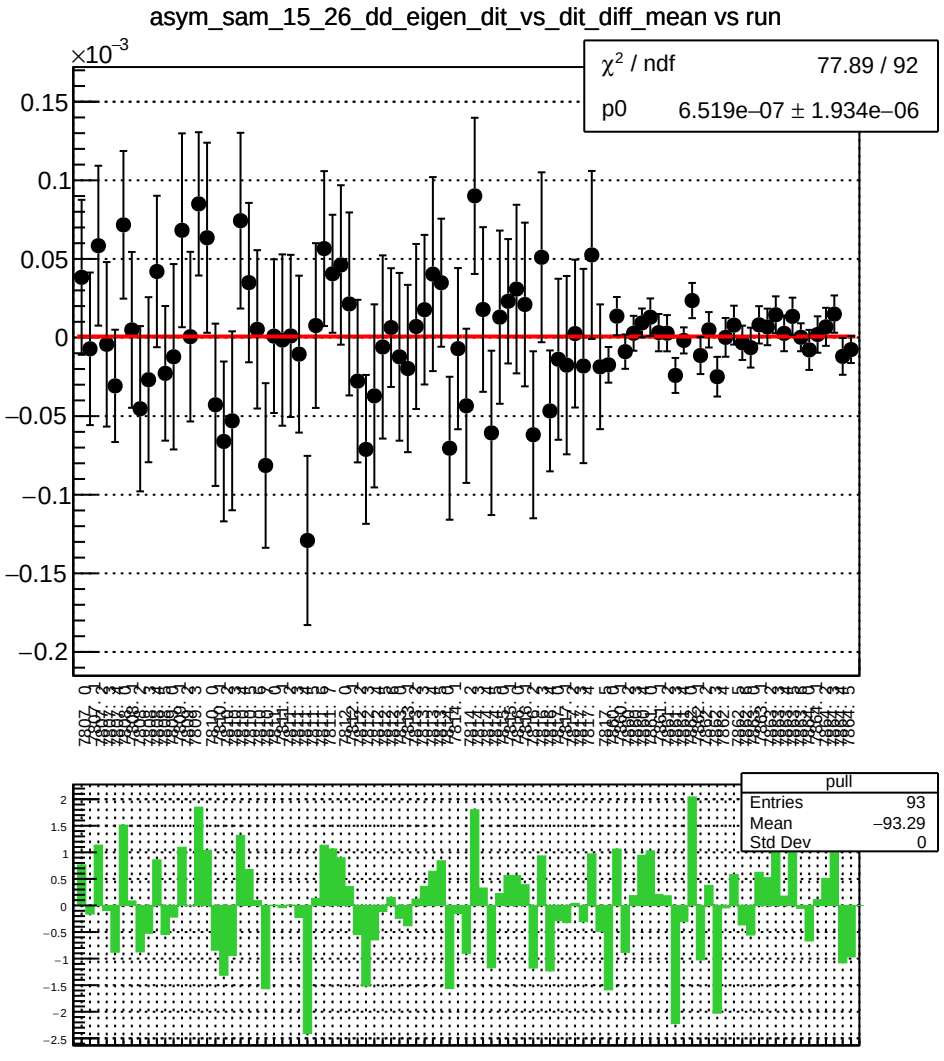

asym_sam_15_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 83.89 / 92
p0 0.03293 ± 0.04748
pull
Entries 93
Mean −182.3
Std Dev 0
pull1D
Entries 93
Mean −0.01098
Std Dev 0.9497

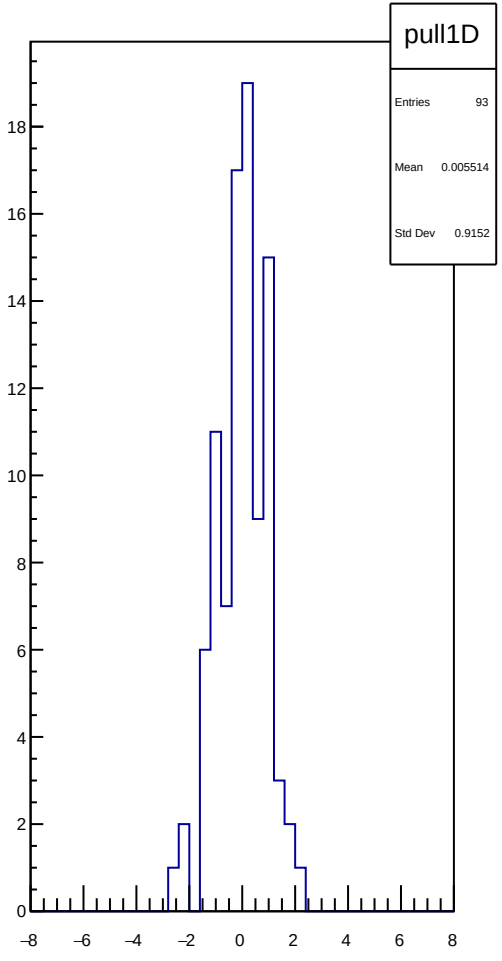

asym_sam_15_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.407e+04 / 92
p0 45.26 ± 0.03357
100
90
80
70
60
50
40

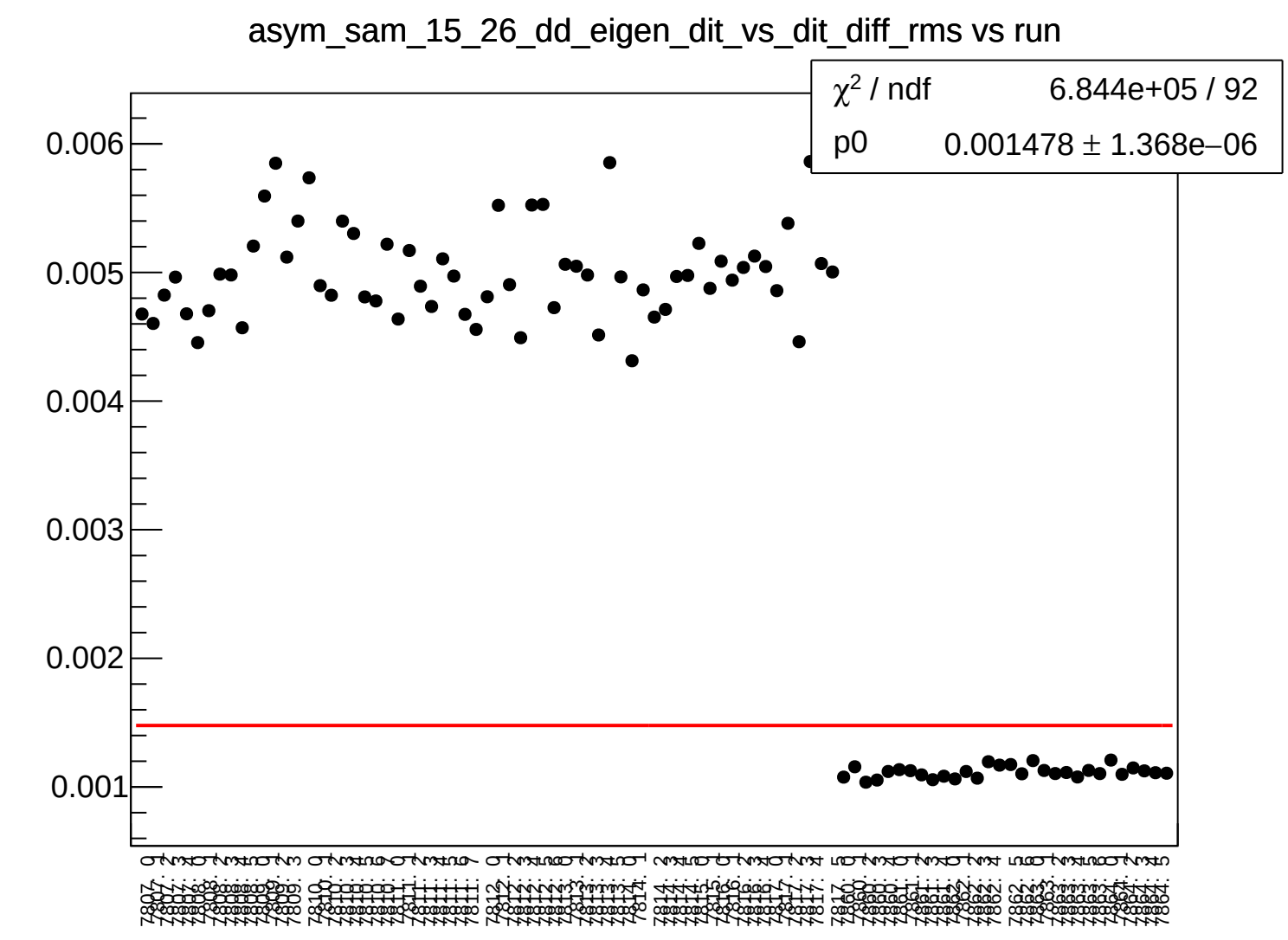

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.89 / 92
p0 0.03293 ± 0.04748
pull
Entries 93
Mean −182.3
Std Dev 0

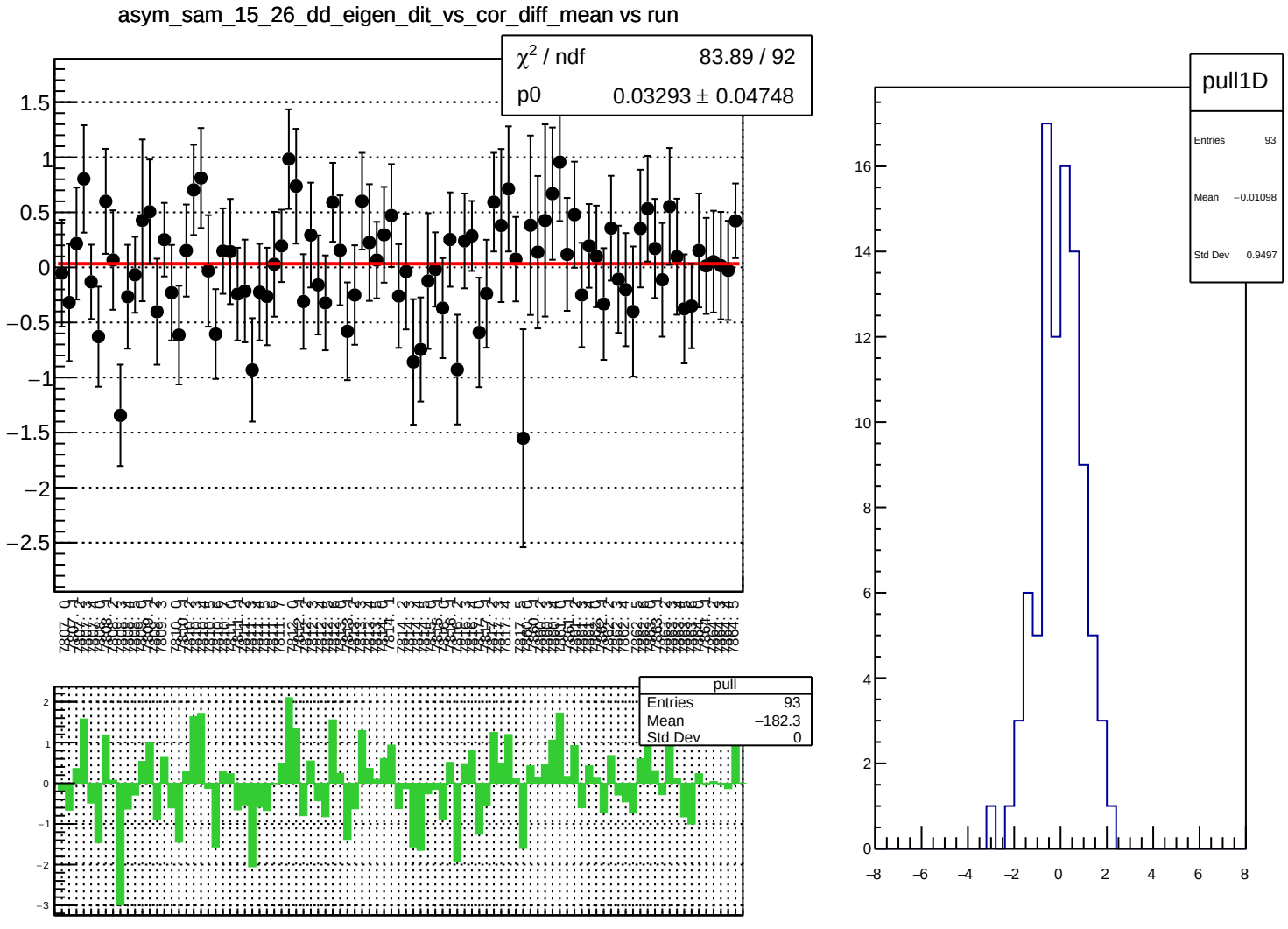

pull1D
Entries 93
Mean −0.01098
Std Dev 0.9497

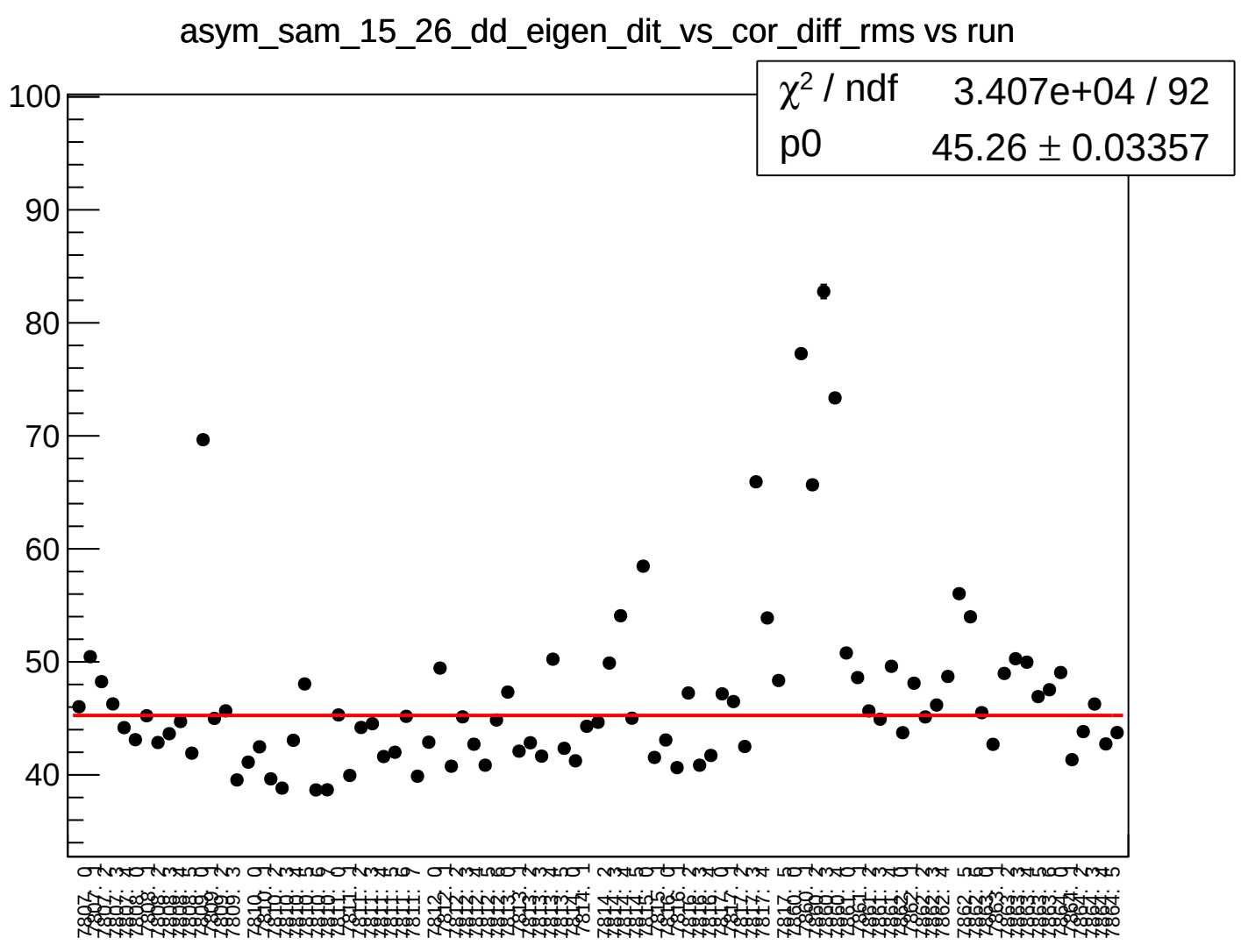

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.407e+04 / 92
p0 45.26 ± 0.03357
100
90
80
70
60
50
40

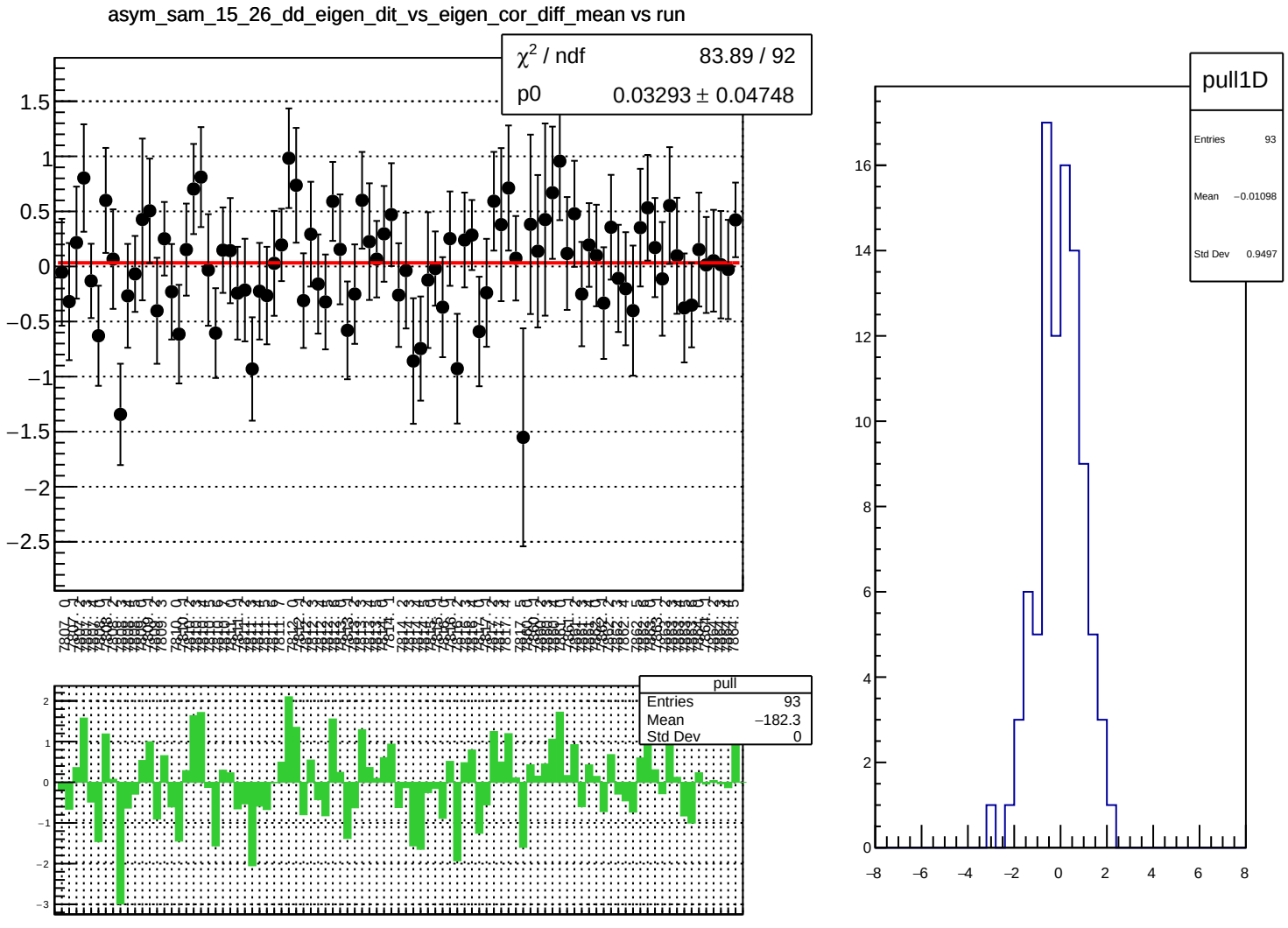

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 77.89 / 92
p0 6.519e−07 ± 1.934e−06
pull
Entries 93
Mean −93.29
Std Dev 0

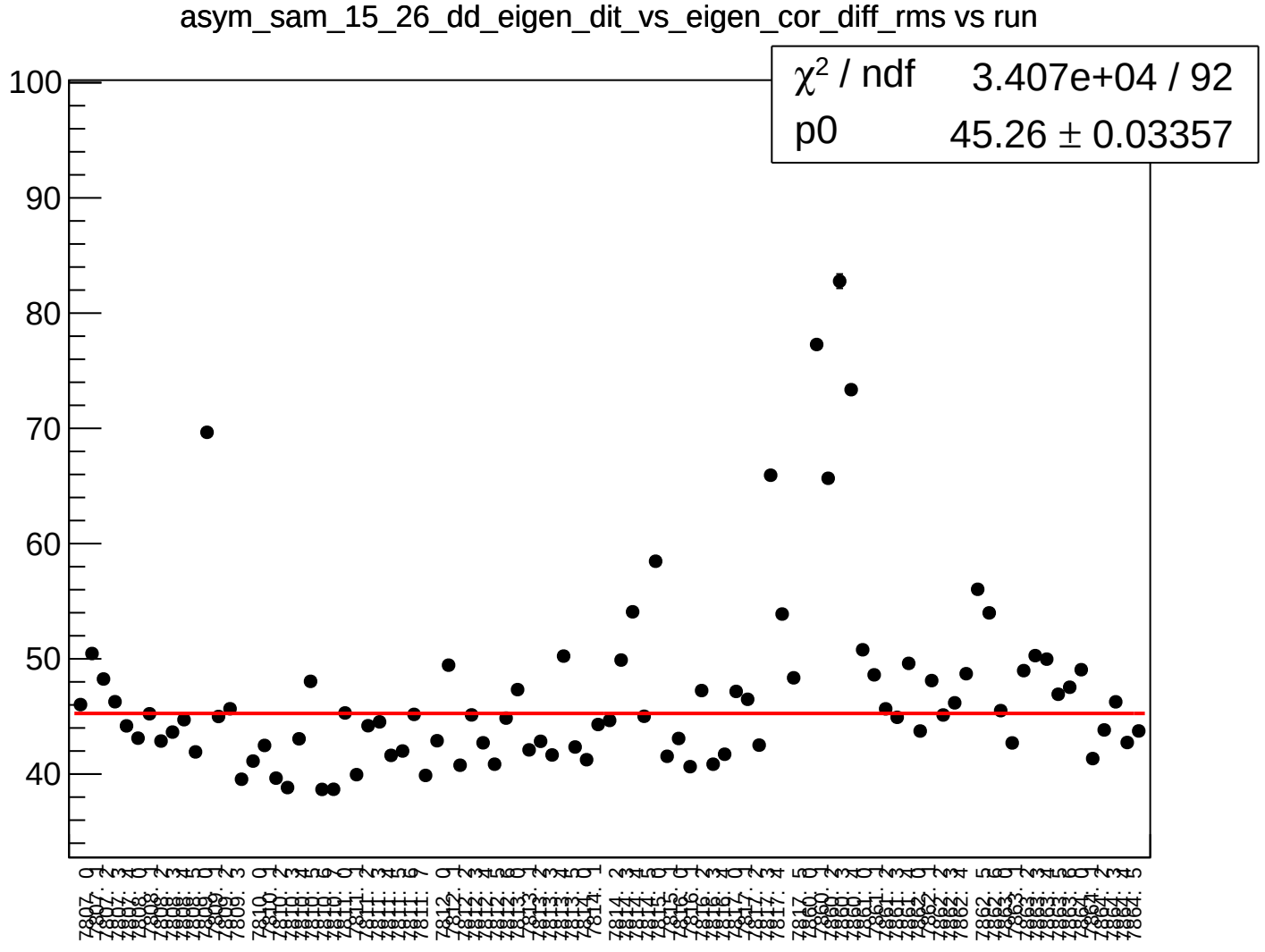

pull1D
Entries 93
Mean 0.005514
Std Dev 0.9152

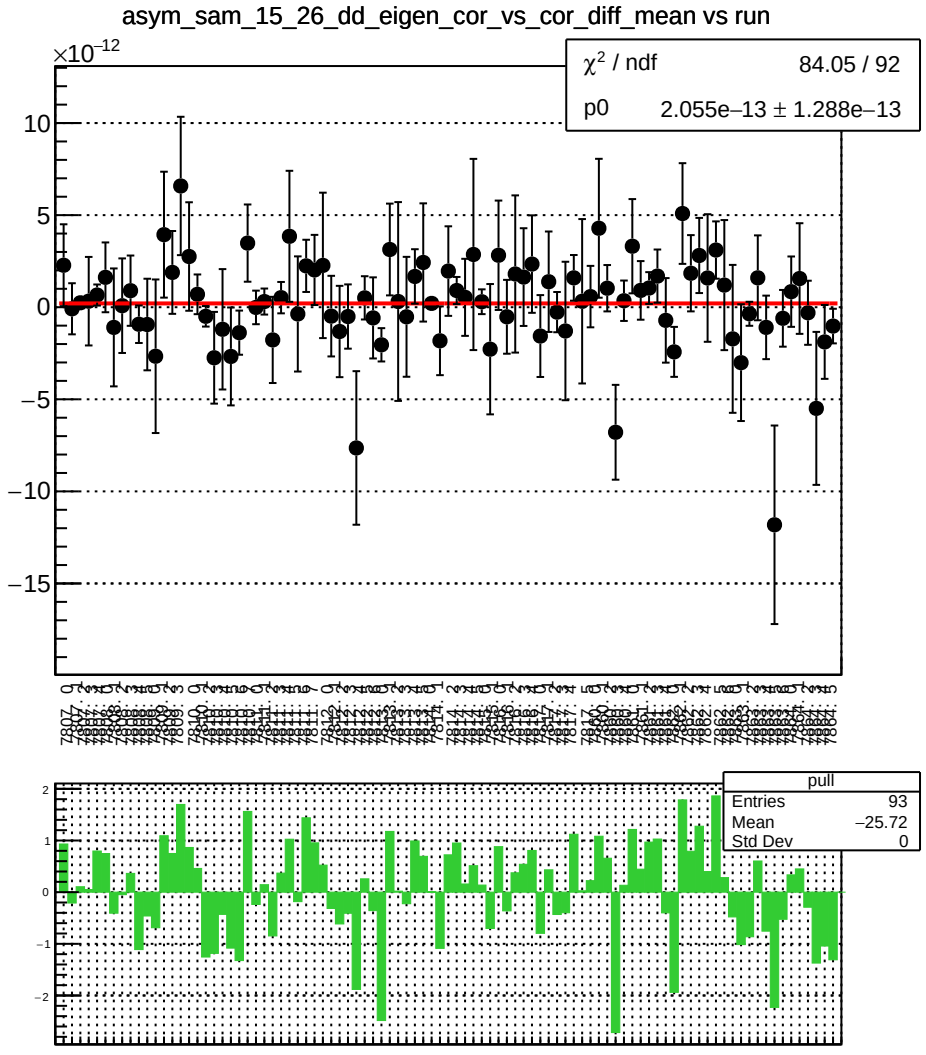

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.844e+05 / 92
p0 0.001478 ± 1.368e−06
0.006
0.005
0.004
0.003
0.002
0.001

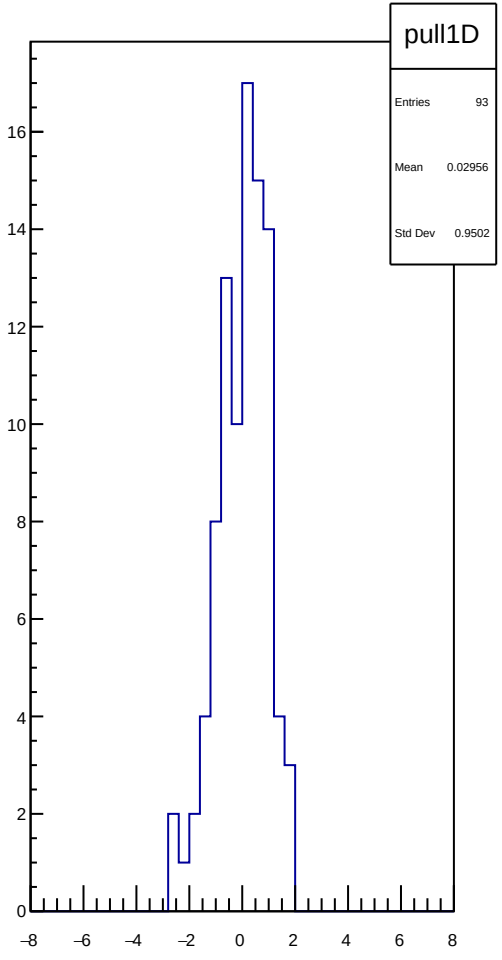

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.89 / 92
p0 0.03293 ± 0.04748
pull
Entries 93
Mean −182.3
Std Dev 0
pull1D
Entries 93
Mean −0.01098
Std Dev 0.9497

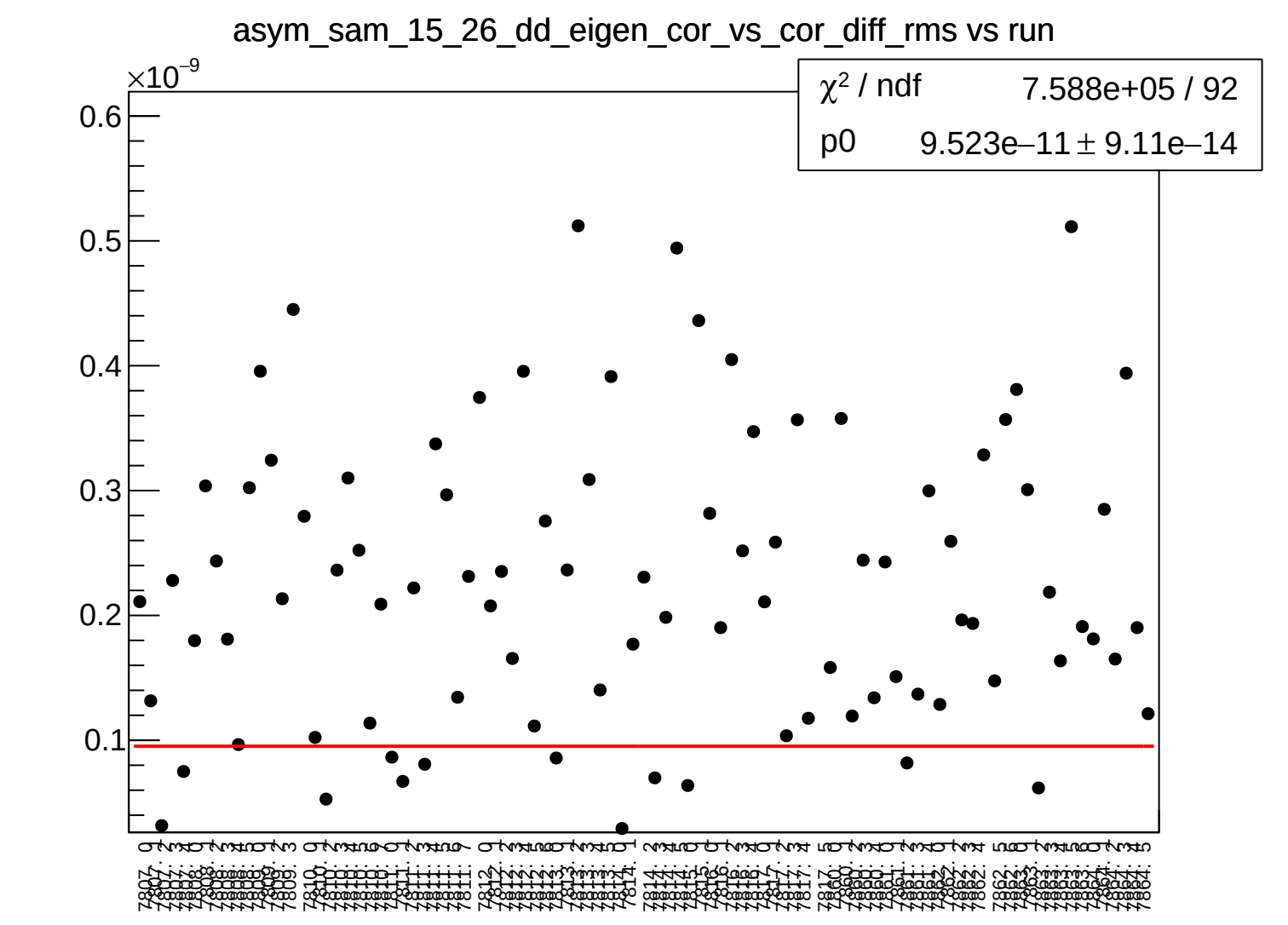

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.407e+04 / 92
p0 45.26 ± 0.03357
100
90
80
70
60
50
40

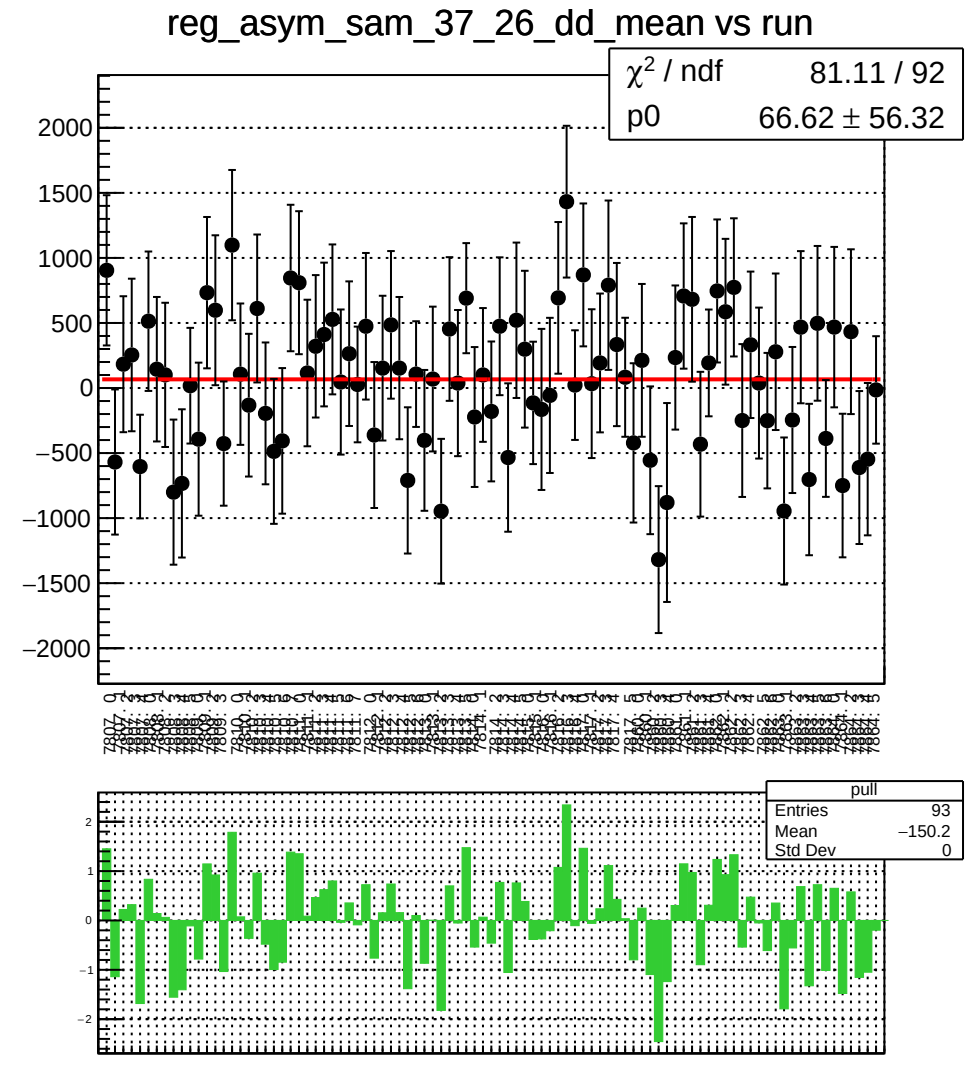

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.89 / 92
p0 0.03293 ± 0.04748
pull
Entries 93
Mean −182.3
Std Dev 0
pull1D
Entries 93
Mean −0.01098
Std Dev 0.9497

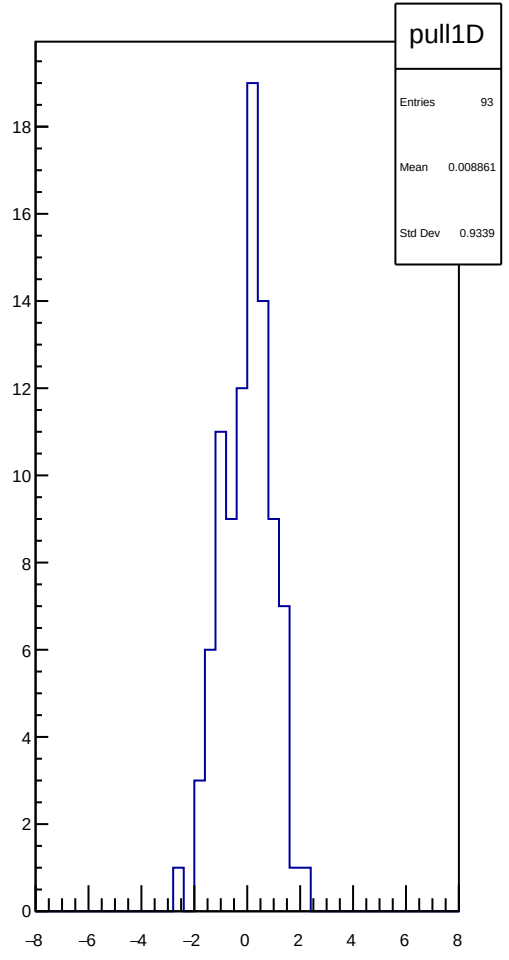

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.407e+04 / 92
p0 45.26 ± 0.03357
100
90
80
70
60
50
40

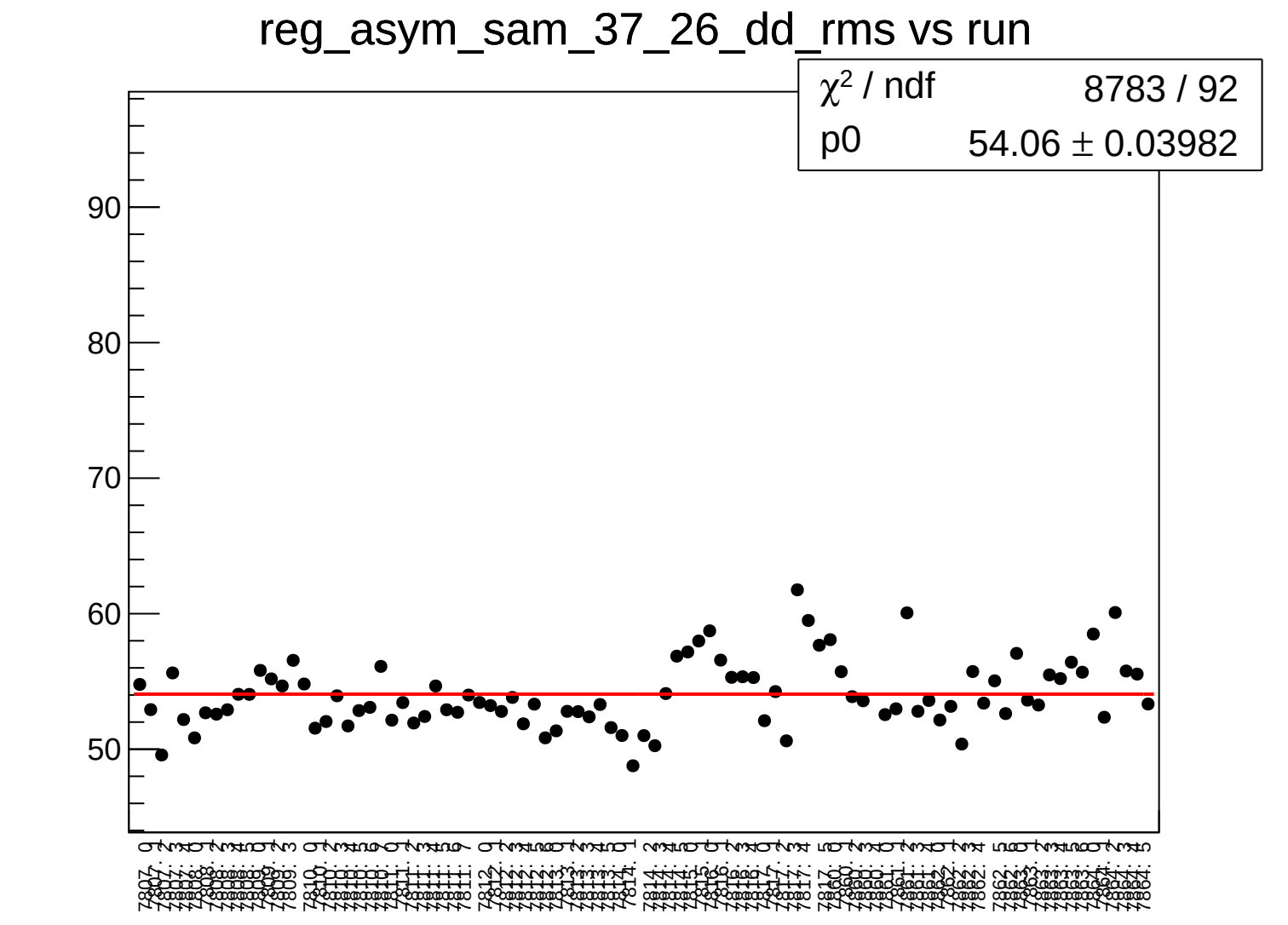

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.05 / 92
p0 2.055e−13 ± 1.288e−13
pull
Entries 93
Mean −25.72
Std Dev 0

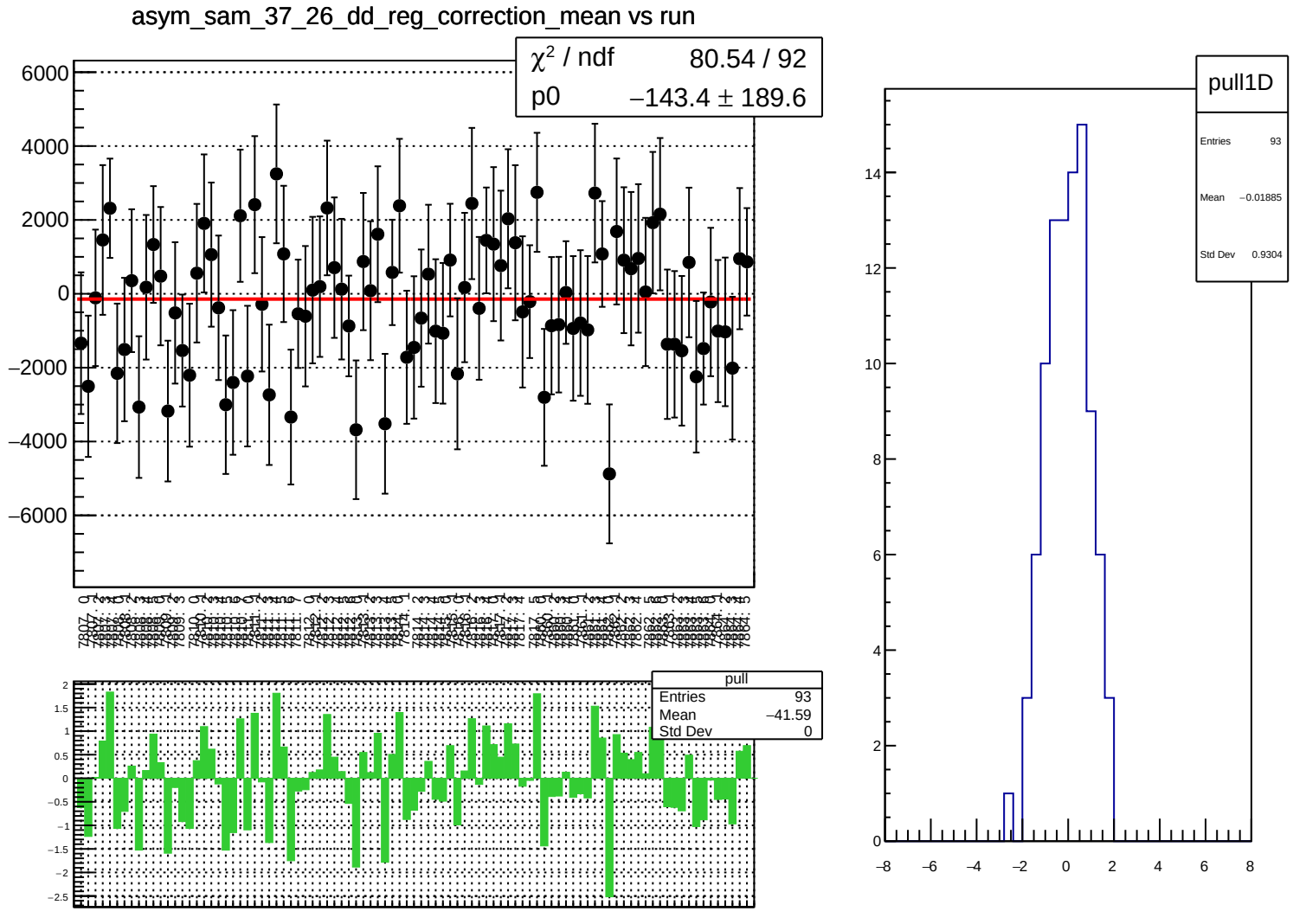

pull1D
Entries 93
Mean 0.02956
Std Dev 0.9502

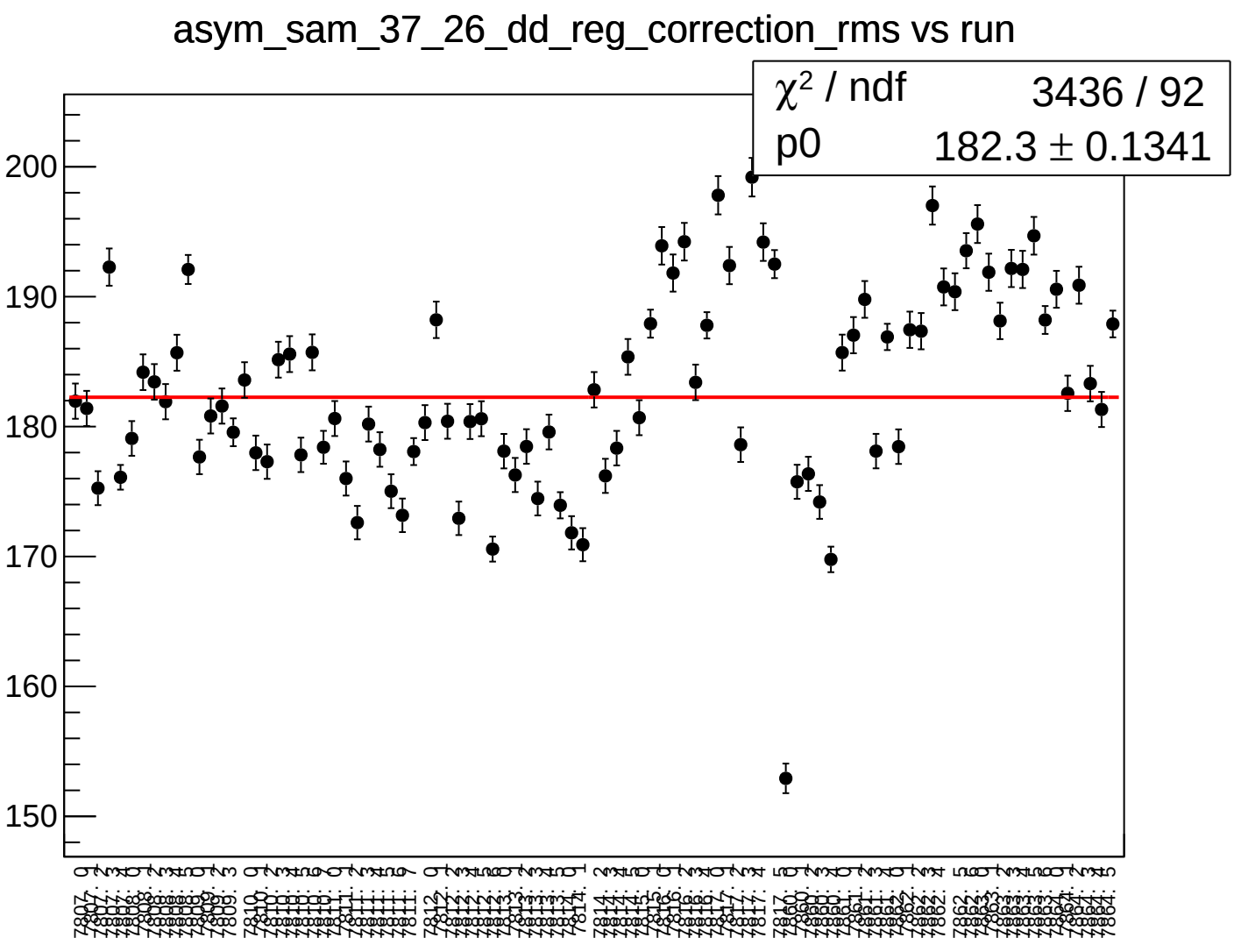

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.588e+05 / 92
p0 9.523e−11 ± 9.11e−14
0.6
0.5
0.4
0.3
0.2
0.1

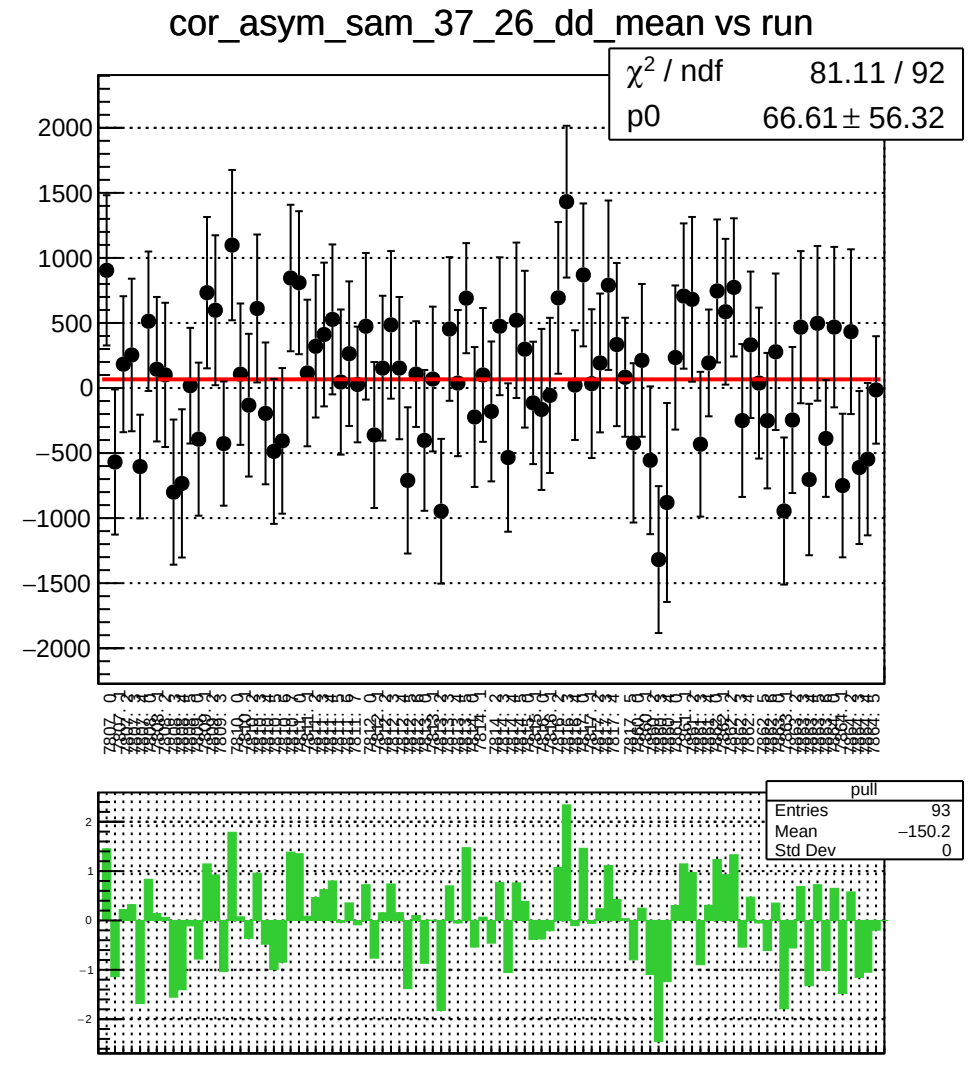

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 81.11 / 92
p0 66.62 ± 56.32
2000
1500
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 93
Mean −150.2
Std Dev 0
2
1
0
−1
−2

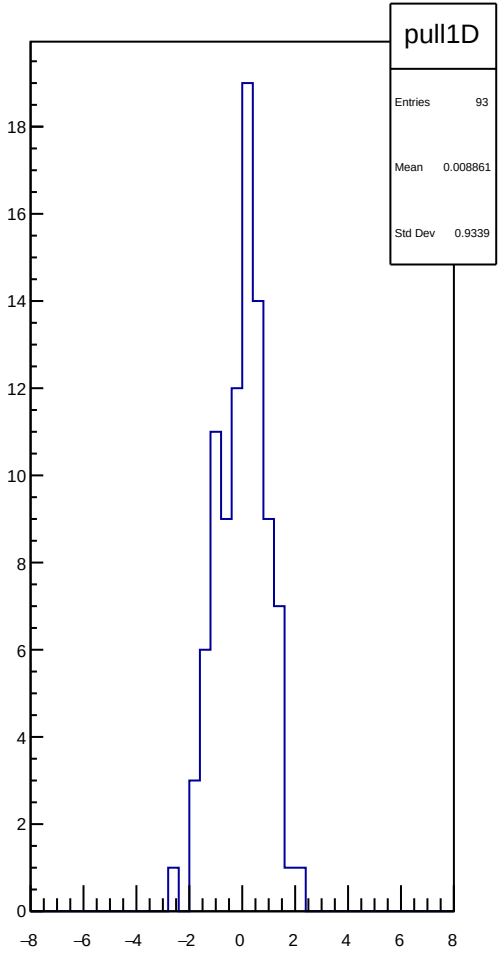

pull1D
Entries 93
Mean 0.008861
Std Dev 0.9339
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

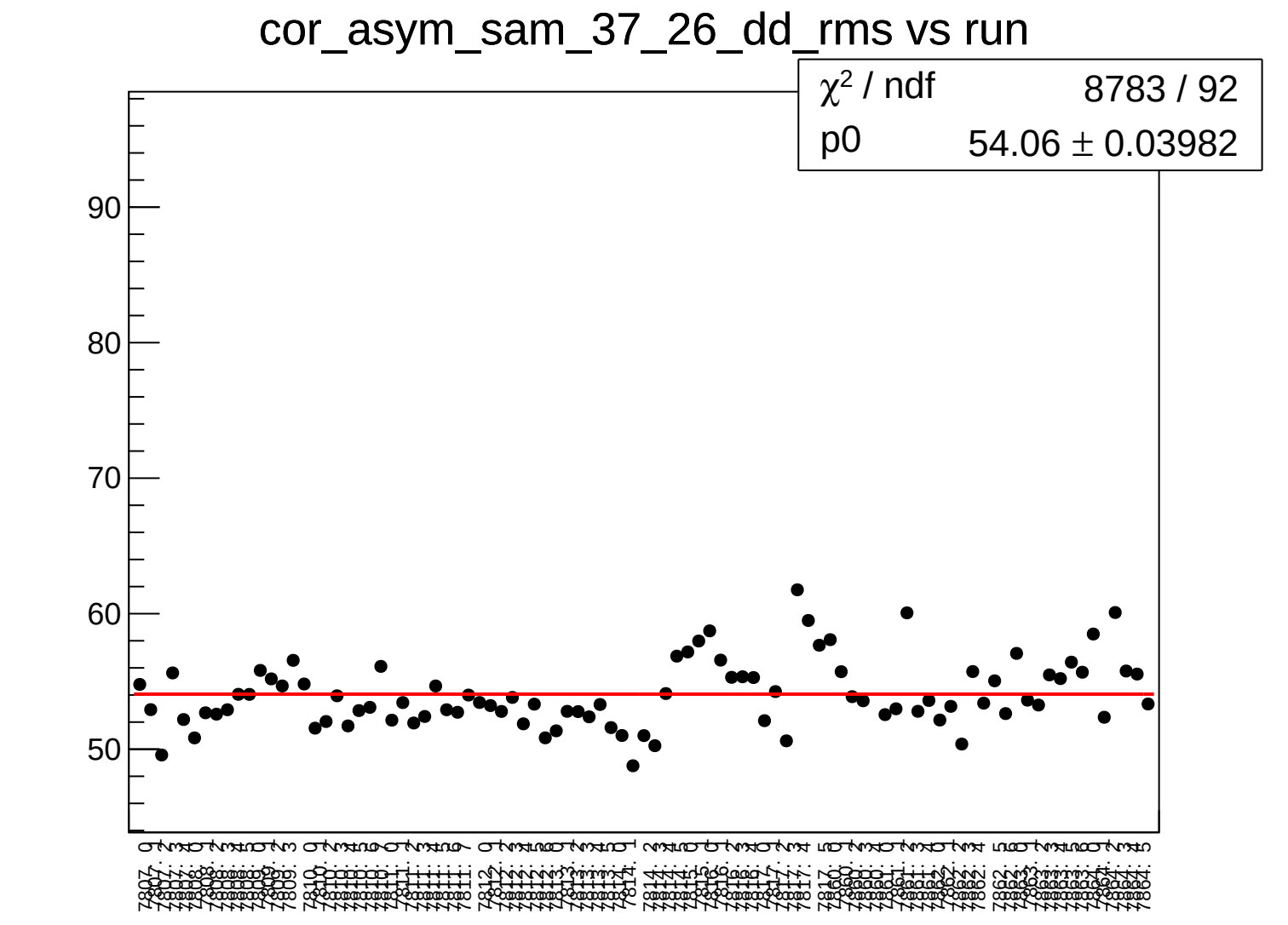

reg_asym_sam_37_26_dd_rms vs run
χ^2 / ndf 8783 / 92
p0 54.06 ± 0.03982
90
80
70
60
50

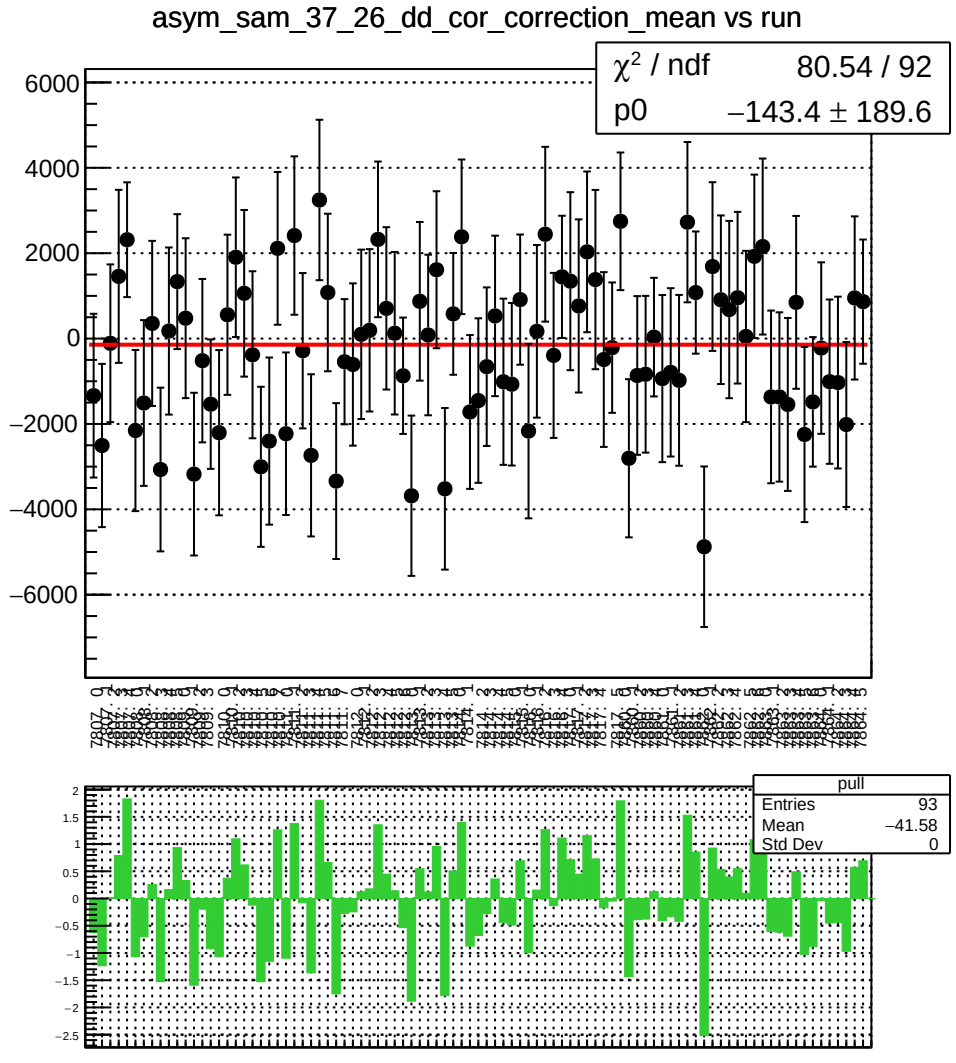

asym_sam_37_26_dd_reg_correction_mean vs run
χ² / ndf 80.54 / 92
p0 −143.4 ± 189.6
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean −41.59
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 93
Mean −0.01885
Std Dev 0.9304
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

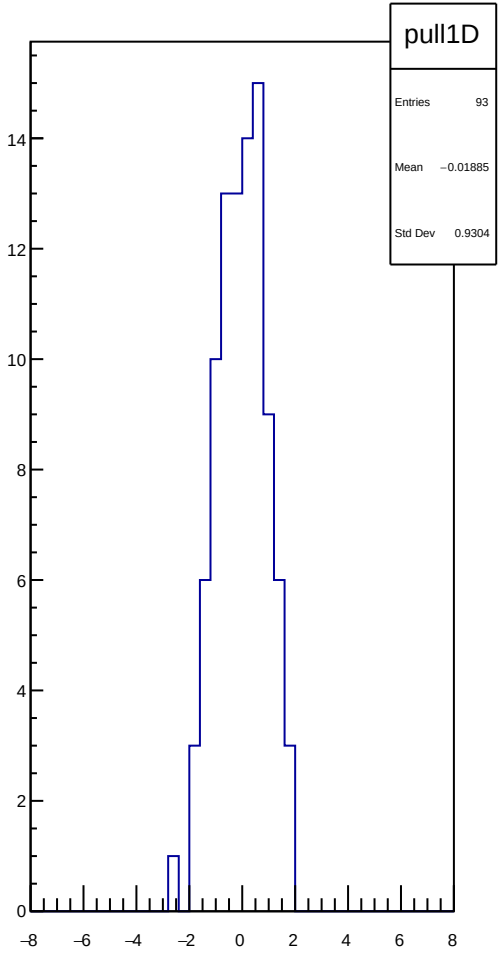

asym_sam_37_26_dd_reg_correction_rms vs run
χ² / ndf 3436 / 92
p0 182.3 ± 0.1341
200
190
180
170
160
150

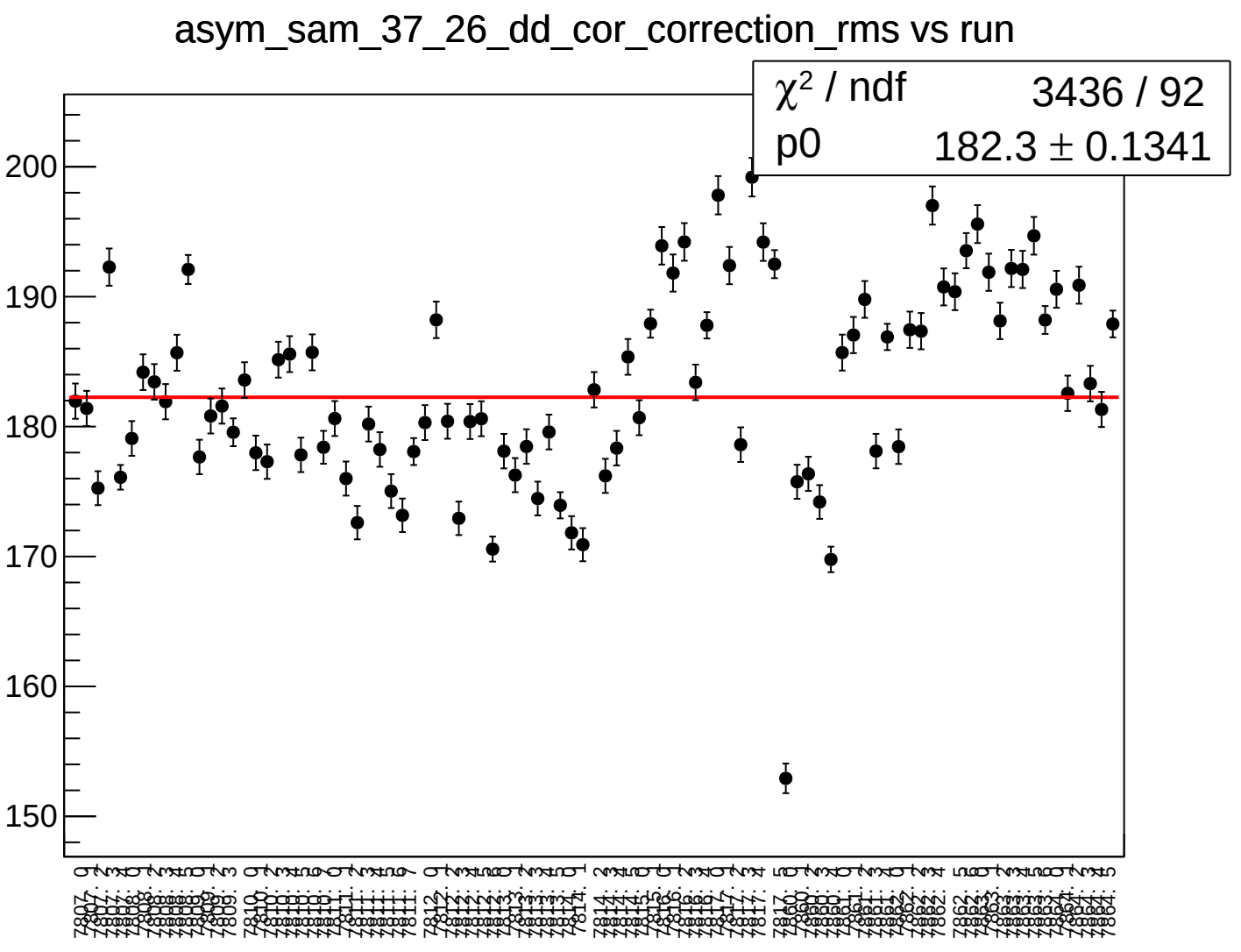

cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 81.11 / 92
p0 66.61 ± 56.32
2000
1500
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 93
Mean −150.2
Std Dev 0
2
1
0
−1
−2

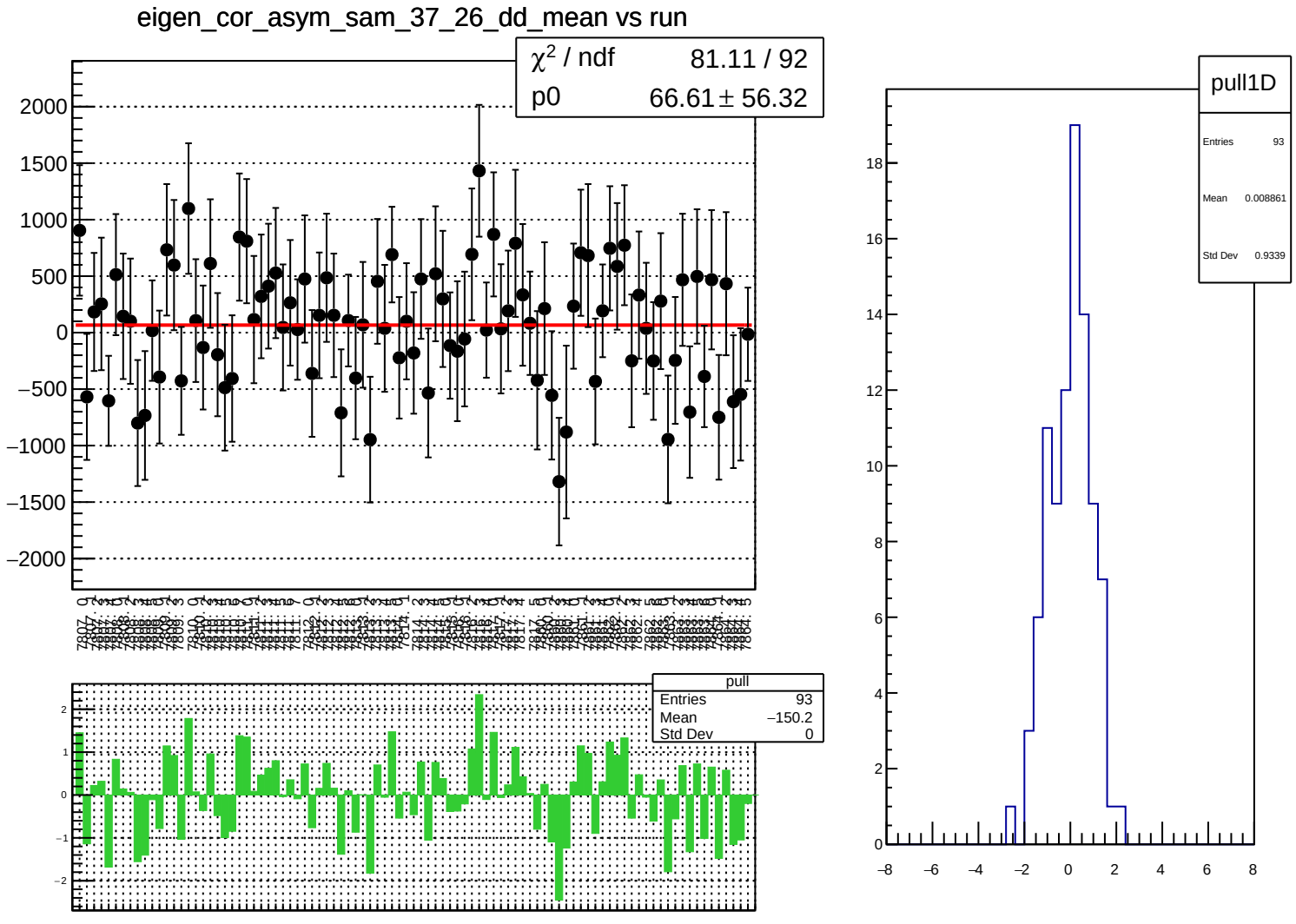

pull1D
Entries 93
Mean 0.008861
Std Dev 0.9339
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

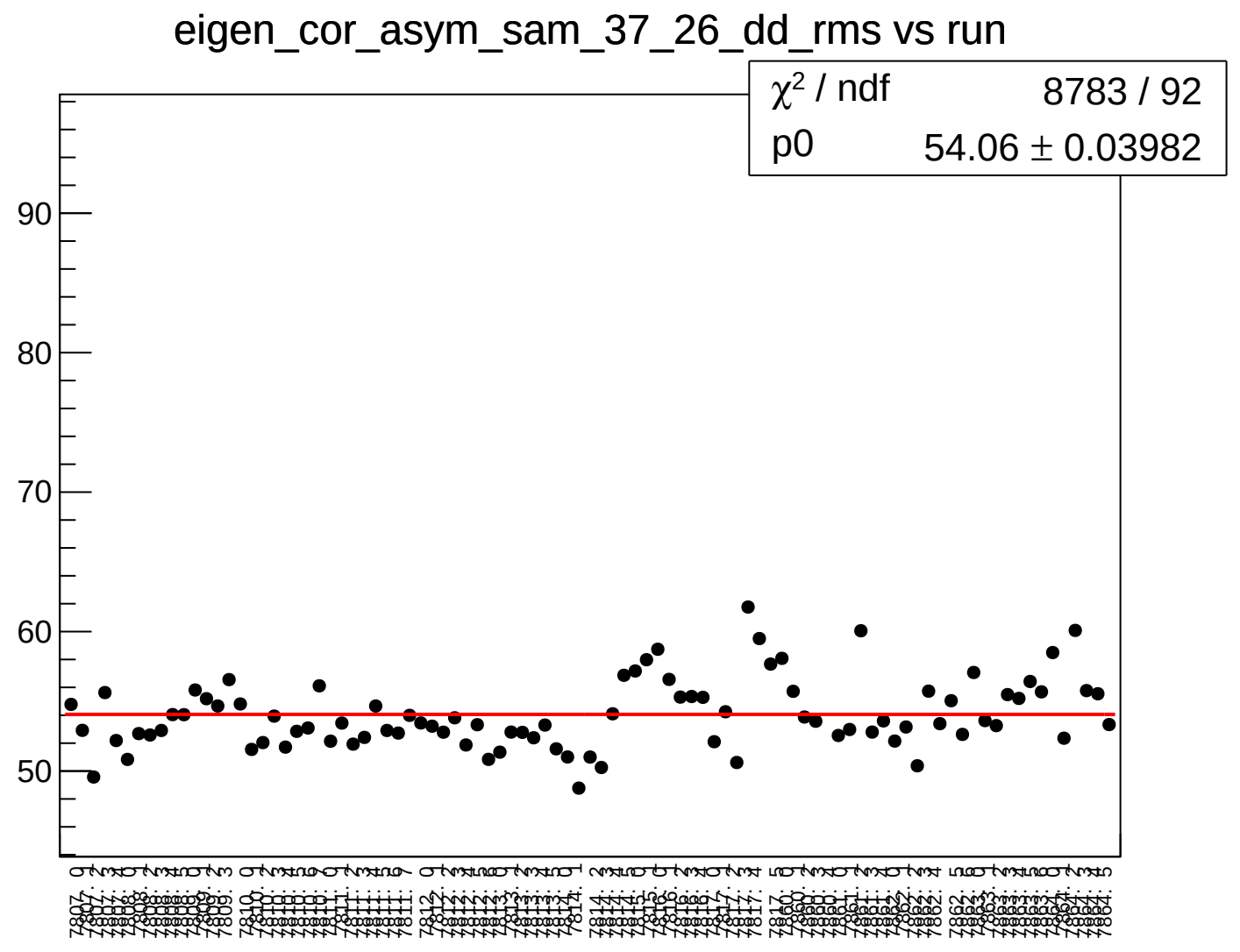

cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 8783 / 92
p0 54.06 ± 0.03982
90
80
70
60
50

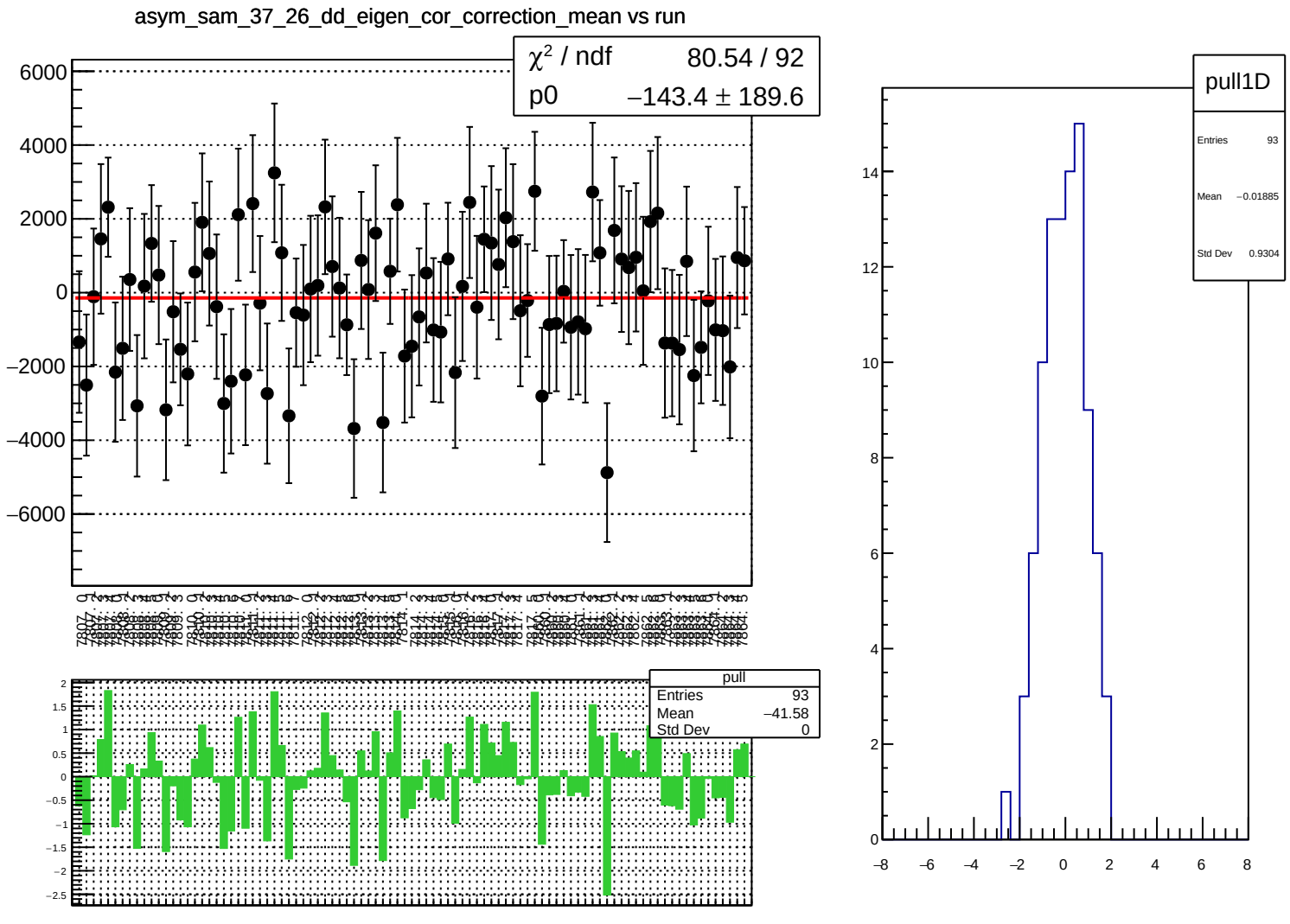

asym_sam_37_26_dd_cor_correction_mean vs run
χ² / ndf 80.54 / 92
p0 −143.4 ± 189.6
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean −41.58
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

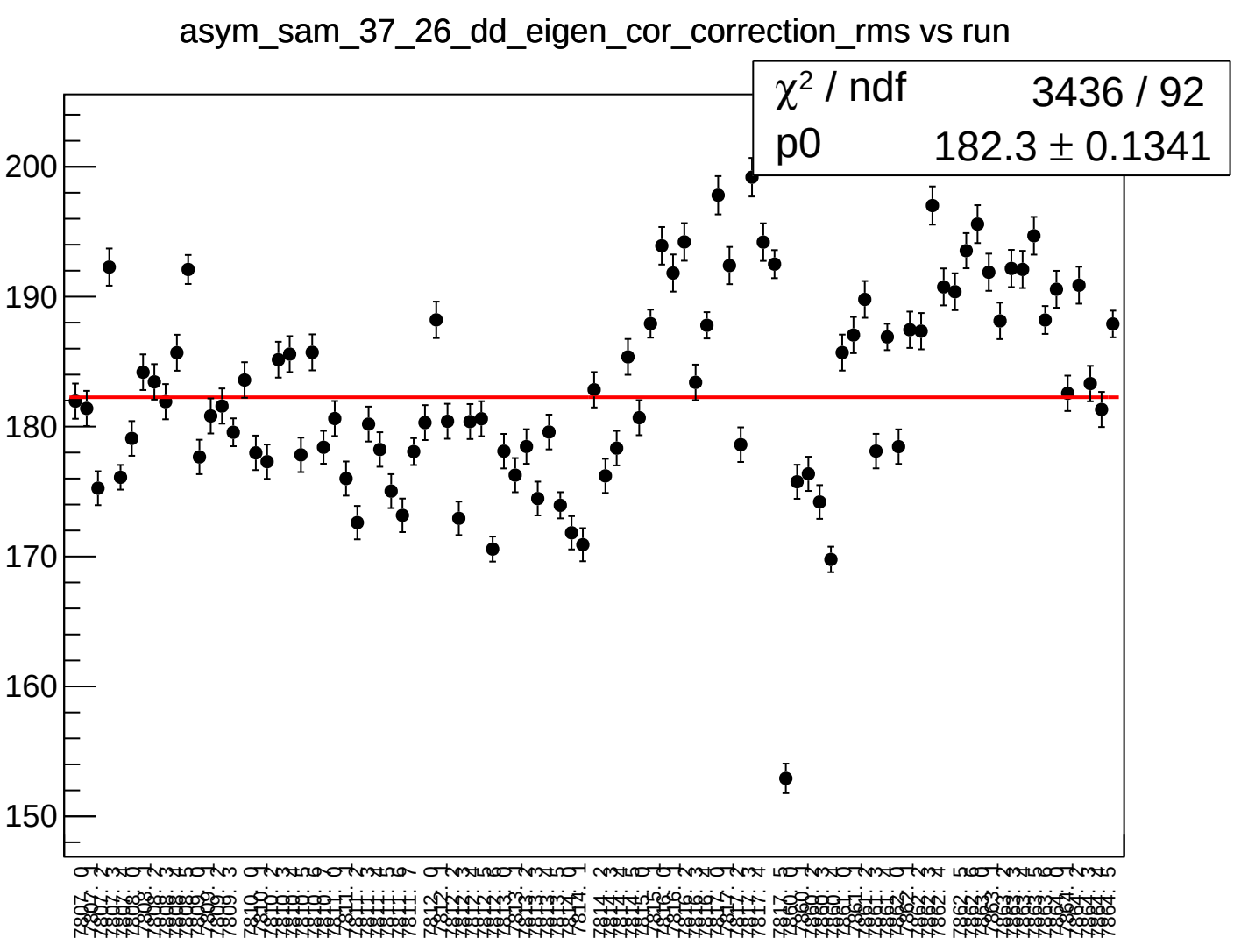

pull1D
Entries 93
Mean −0.01885
Std Dev 0.9304
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

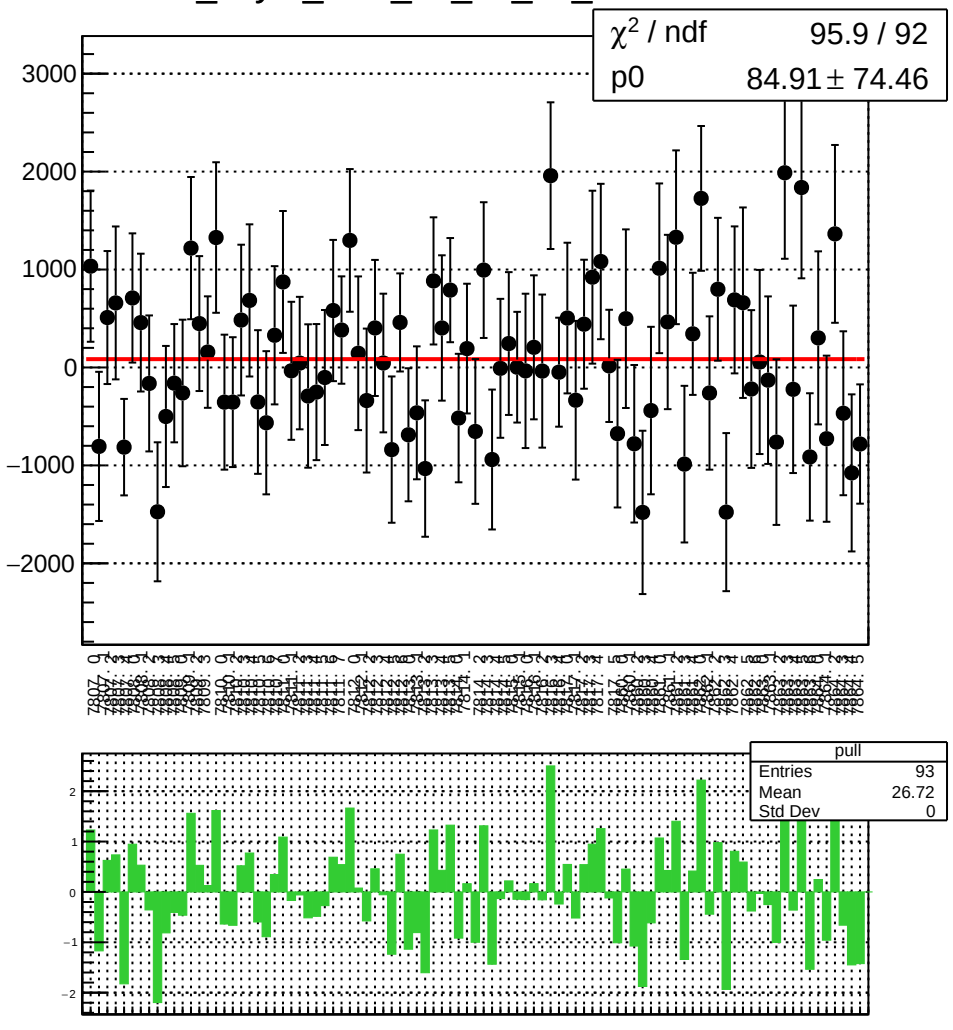

asym_sam_37_26_dd_cor_correction_rms vs run
χ² / ndf 3436 / 92
p0 182.3 ± 0.1341
200
190
180
170
160
150

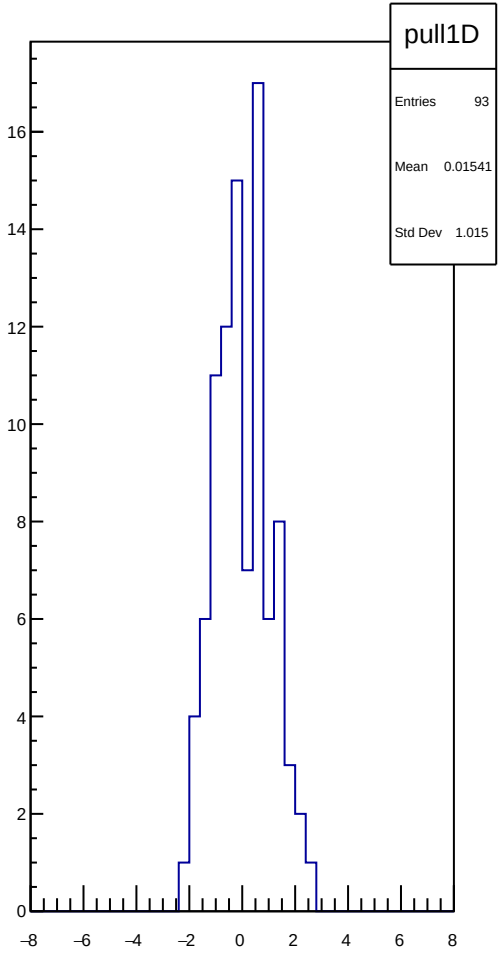

eigen_cor_asym_sam_37_26_dd_mean vs run
χ^2 / ndf 81.11 / 92
p0 66.61 ± 56.32
2000
1500
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 93
Mean −150.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.008861
Std Dev 0.9339
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

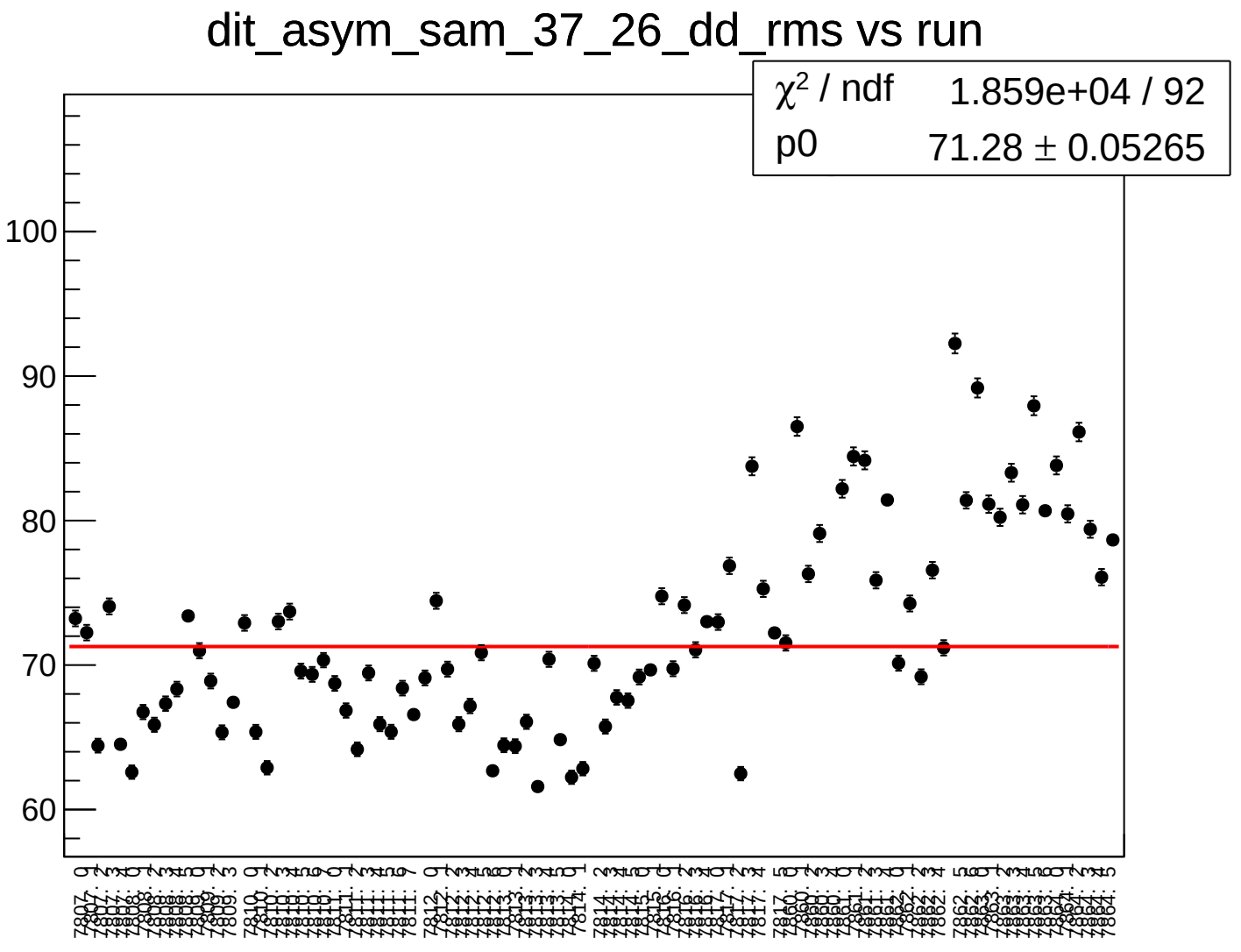

eigen_cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 8783 / 92
p0 54.06 ± 0.03982
90
80
70
60
50

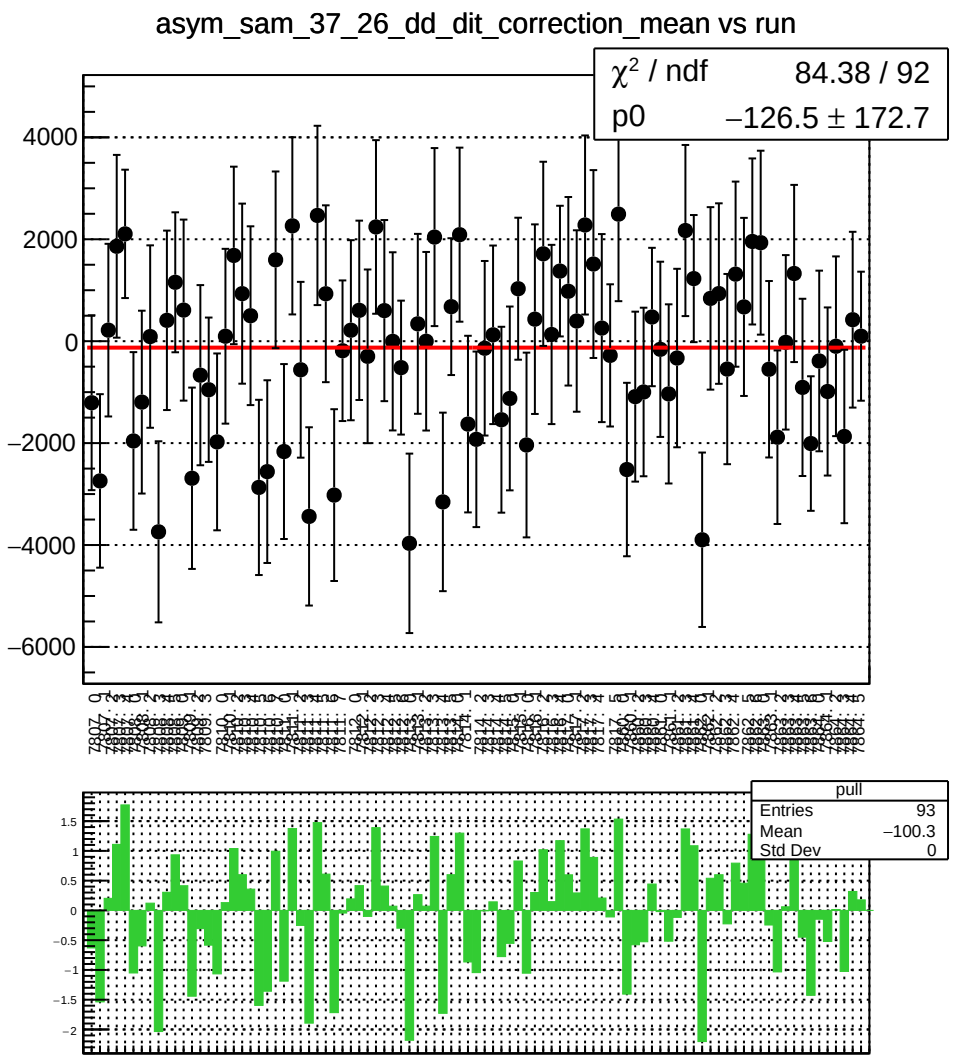

asym_sam_37_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 80.54 / 92
p0 −143.4 ± 189.6
pull
Entries 93
Mean −41.58
Std Dev 0
pull1D
Entries 93
Mean −0.01885
Std Dev 0.9304

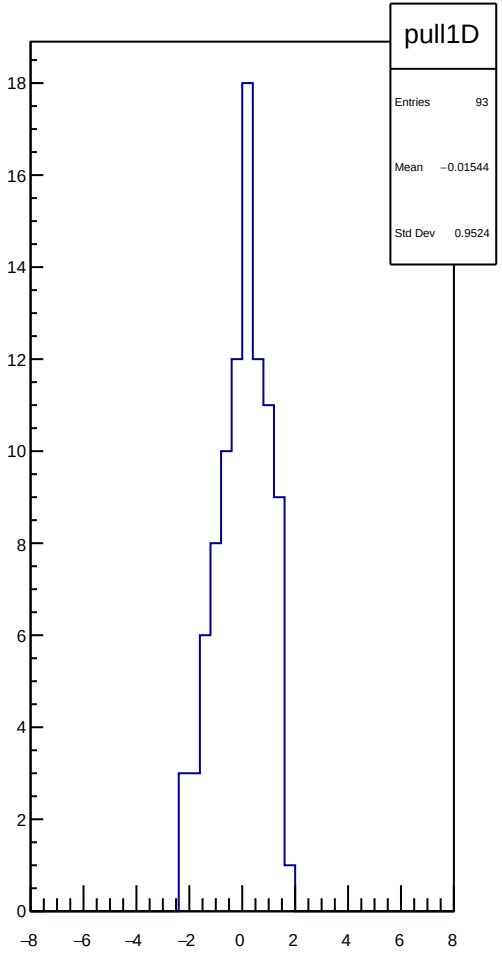

asym_sam_37_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 3436 / 92
p0 182.3 ± 0.1341
200
190
180
170
160
150

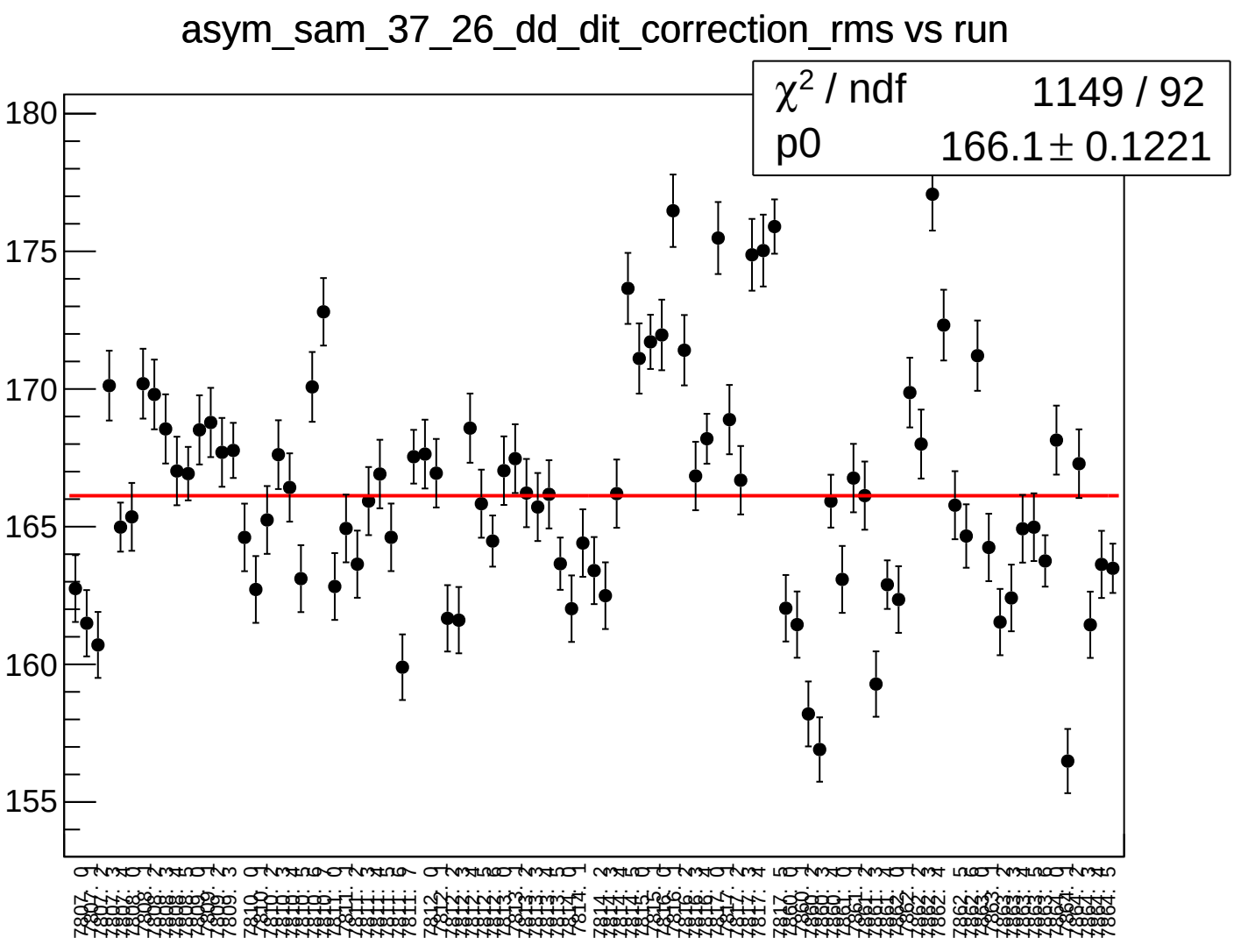

dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 95.9 / 92
p0 84.91 ± 74.46
3000
2000
1000
0
−1000
−2000
pull
Entries 93
Mean 26.72
Std Dev 0
2
1
0
−1
−2

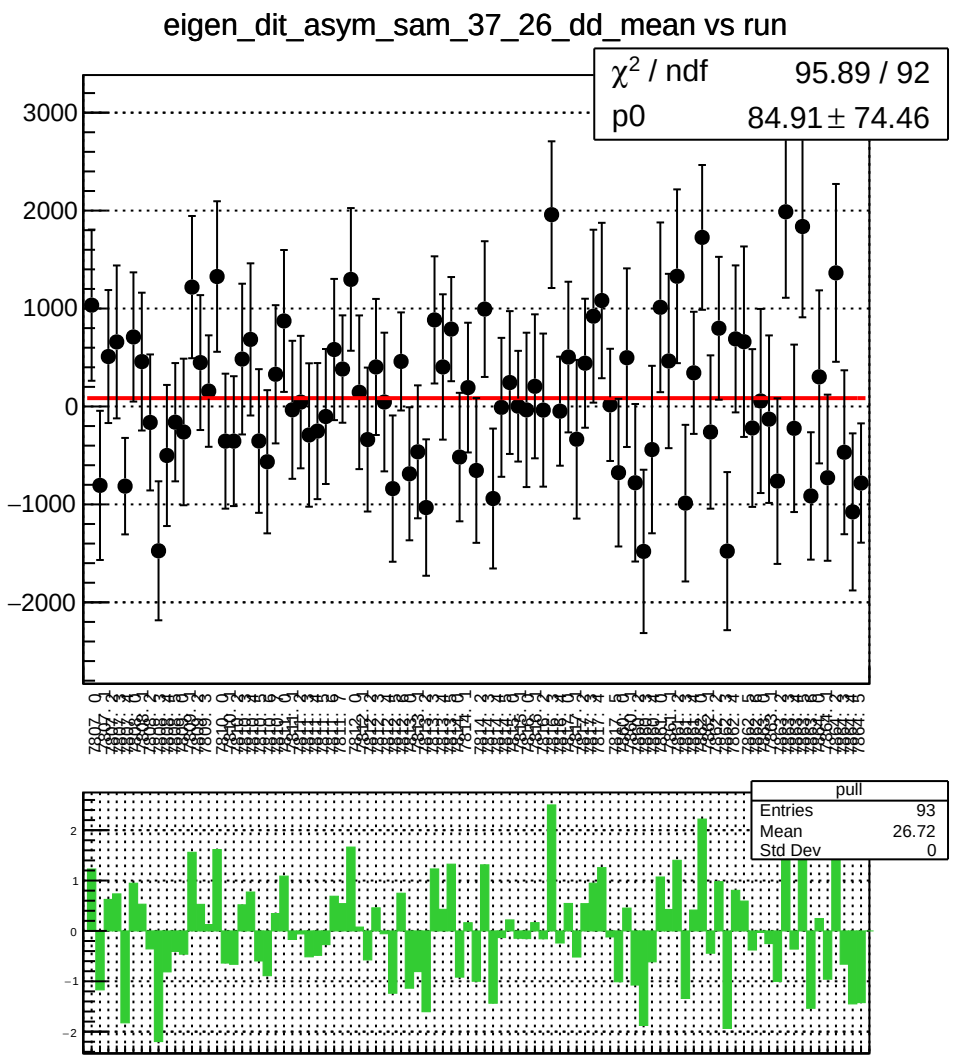

pull1D
Entries 93
Mean 0.01541
Std Dev 1.015
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

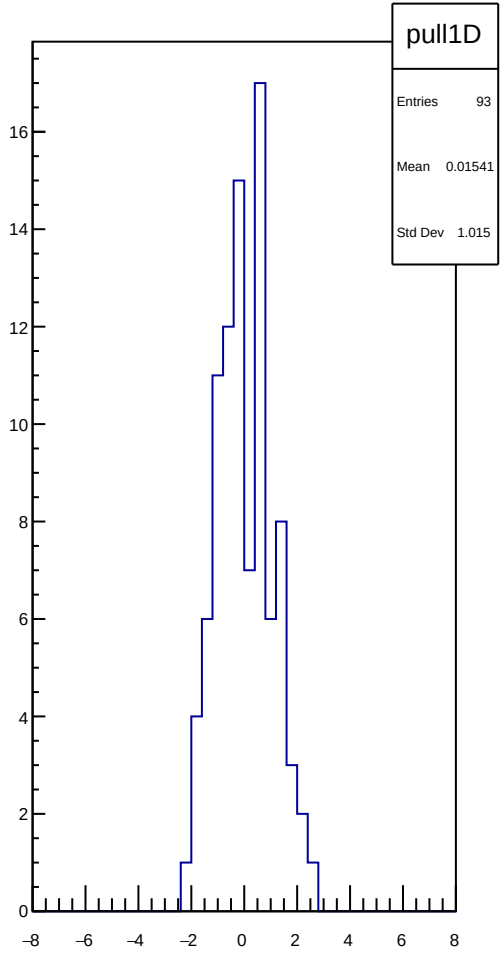

dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 1.859e+04 / 92
p0 71.28 ± 0.05265
100
90
80
70
60

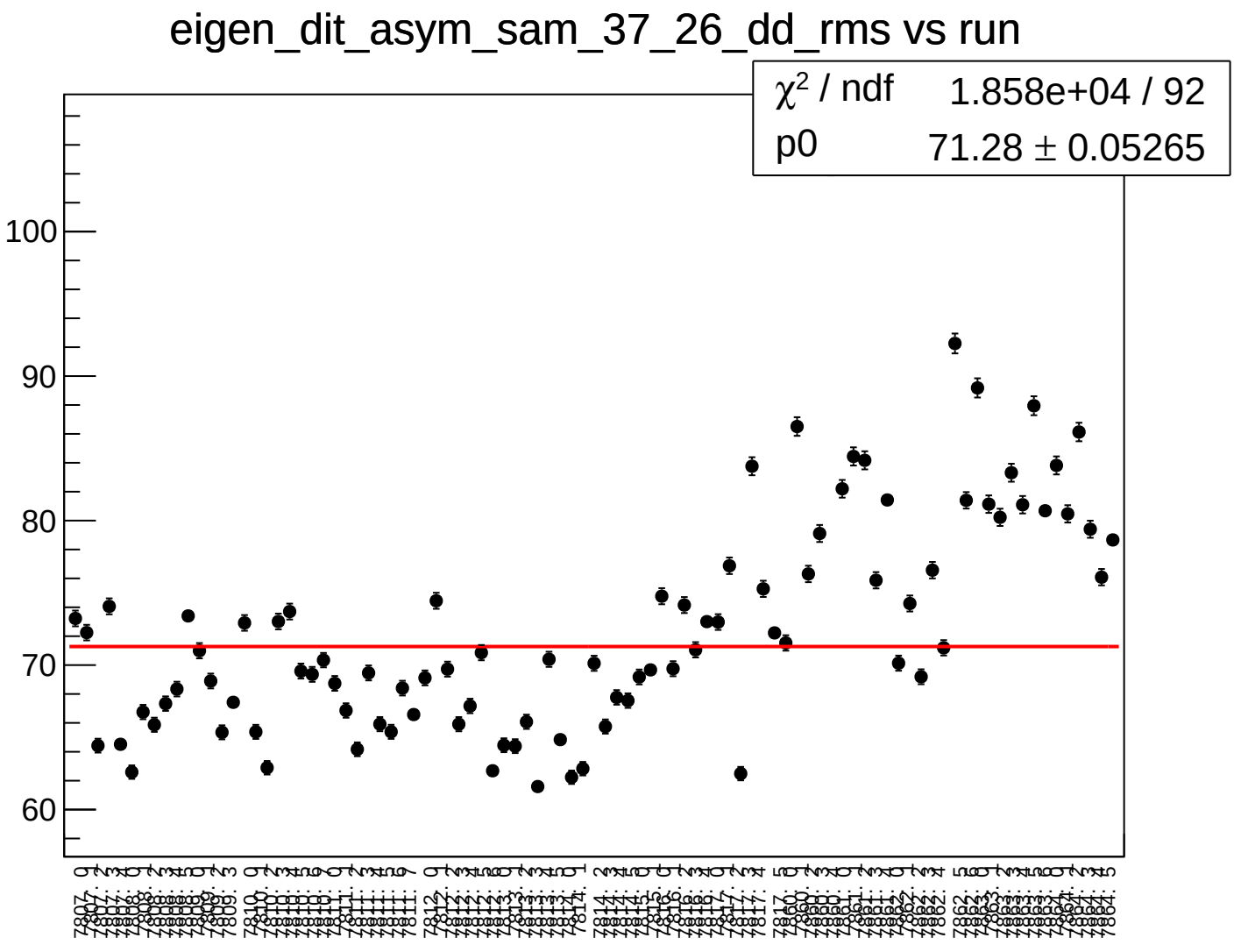

asym_sam_37_26_dd_dit_correction_mean vs run
χ² / ndf 84.38 / 92
p0 −126.5 ± 172.7
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean −100.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

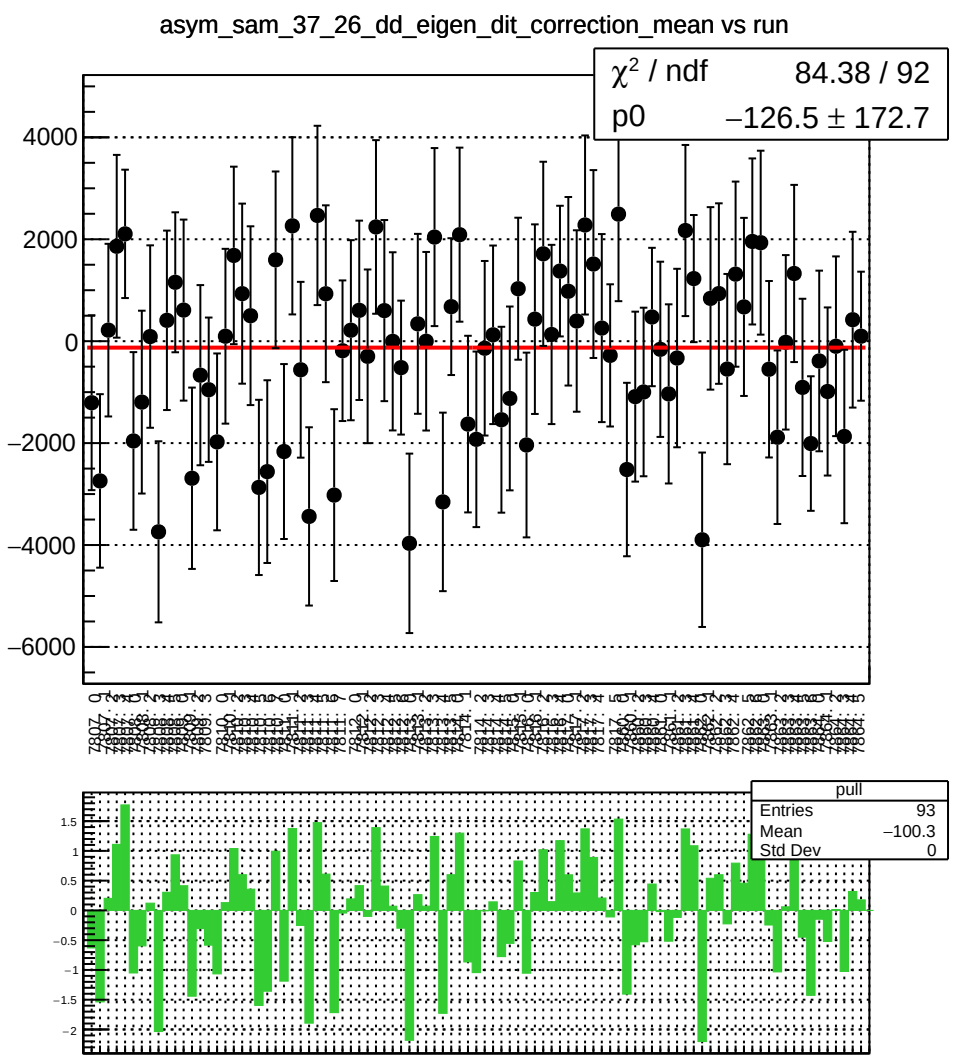

pull1D
Entries 93
Mean −0.01544
Std Dev 0.9524
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

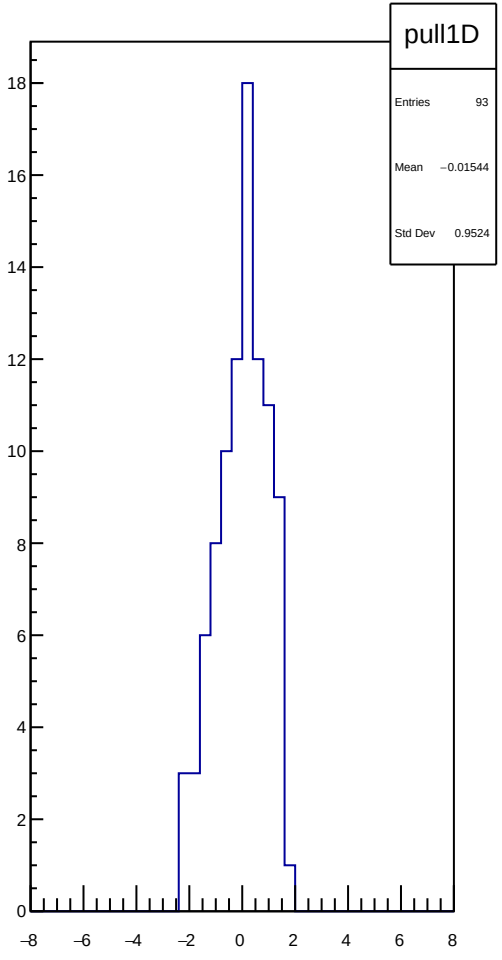

asym_sam_37_26_dd_dit_correction_rms vs run
χ² / ndf 1149 / 92
p0 166.1 ± 0.1221
180
175
170
165
160
155

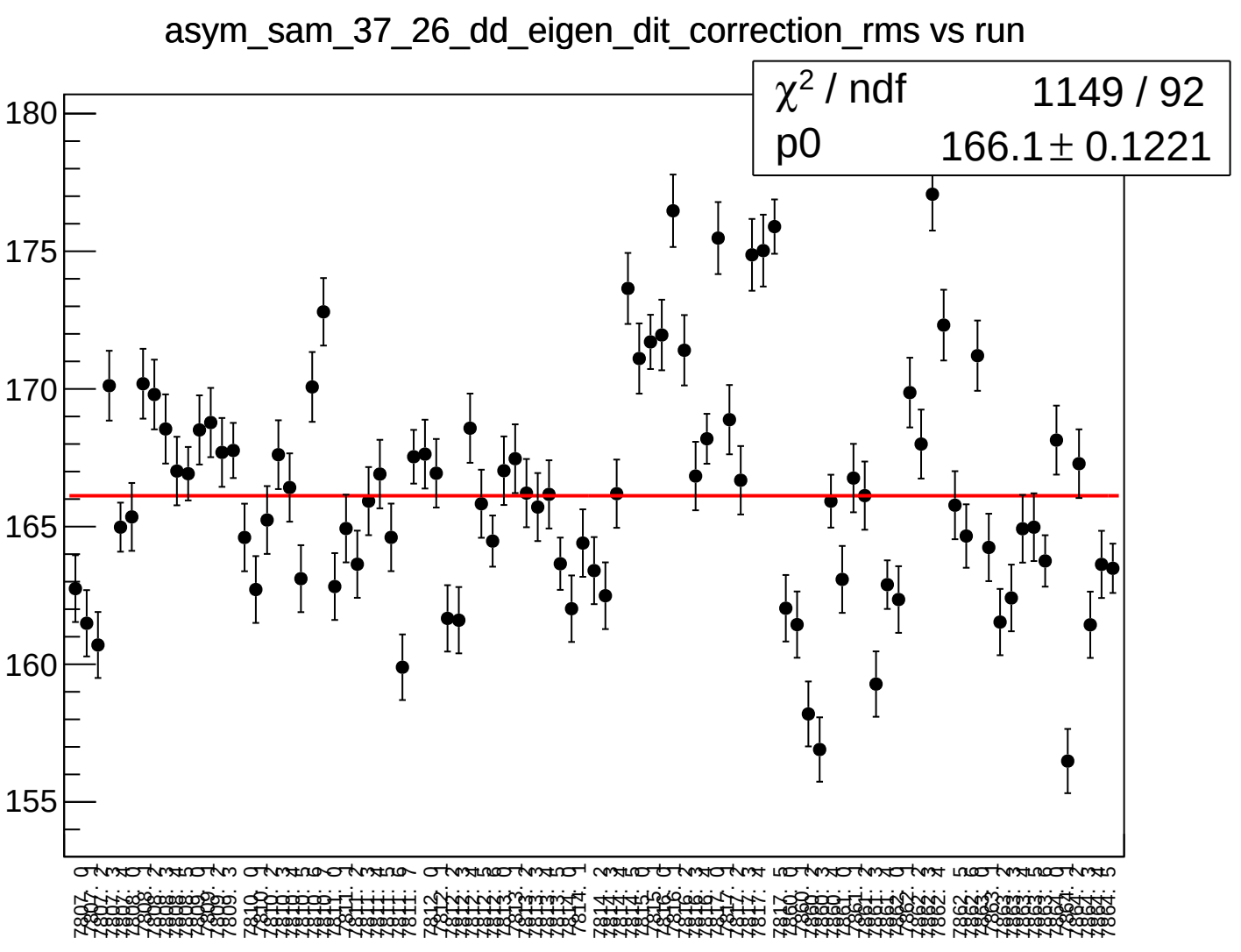

eigen_dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 95.89 / 92
p0 84.91 ± 74.46
3000
2000
1000
0
−1000
−2000
pull
Entries 93
Mean 26.72
Std Dev 0
2
1
0
−1
−2

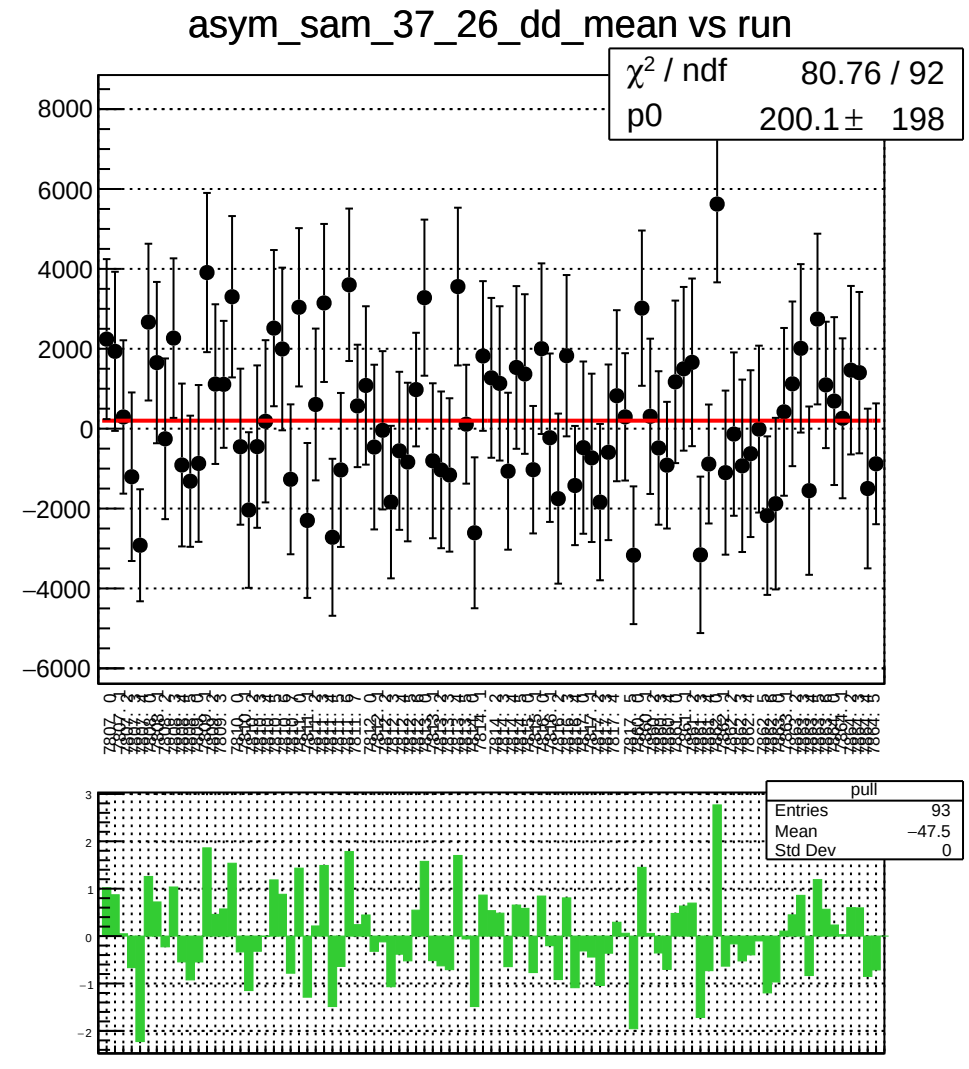

pull1D
Entries 93
Mean 0.01541
Std Dev 1.015
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

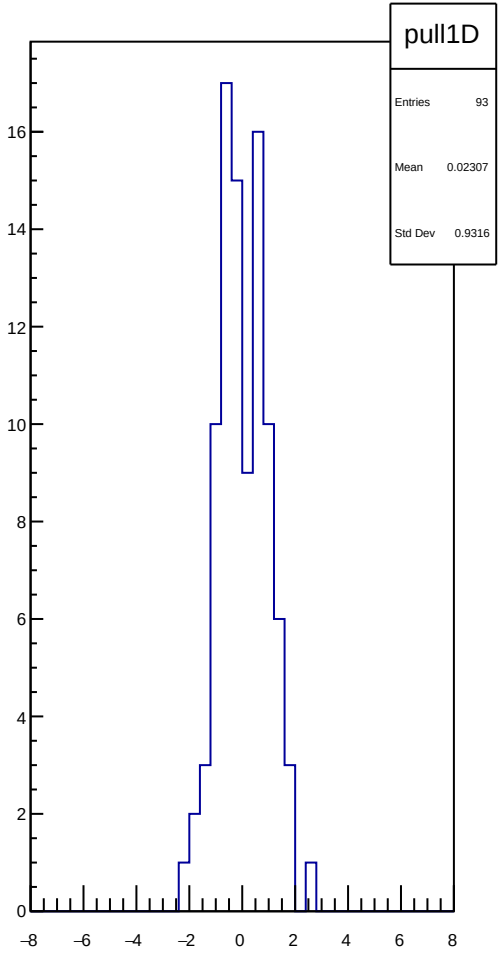

eigen_dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 1.858e+04 / 92
p0 71.28 ± 0.05265
100
90
80
70
60

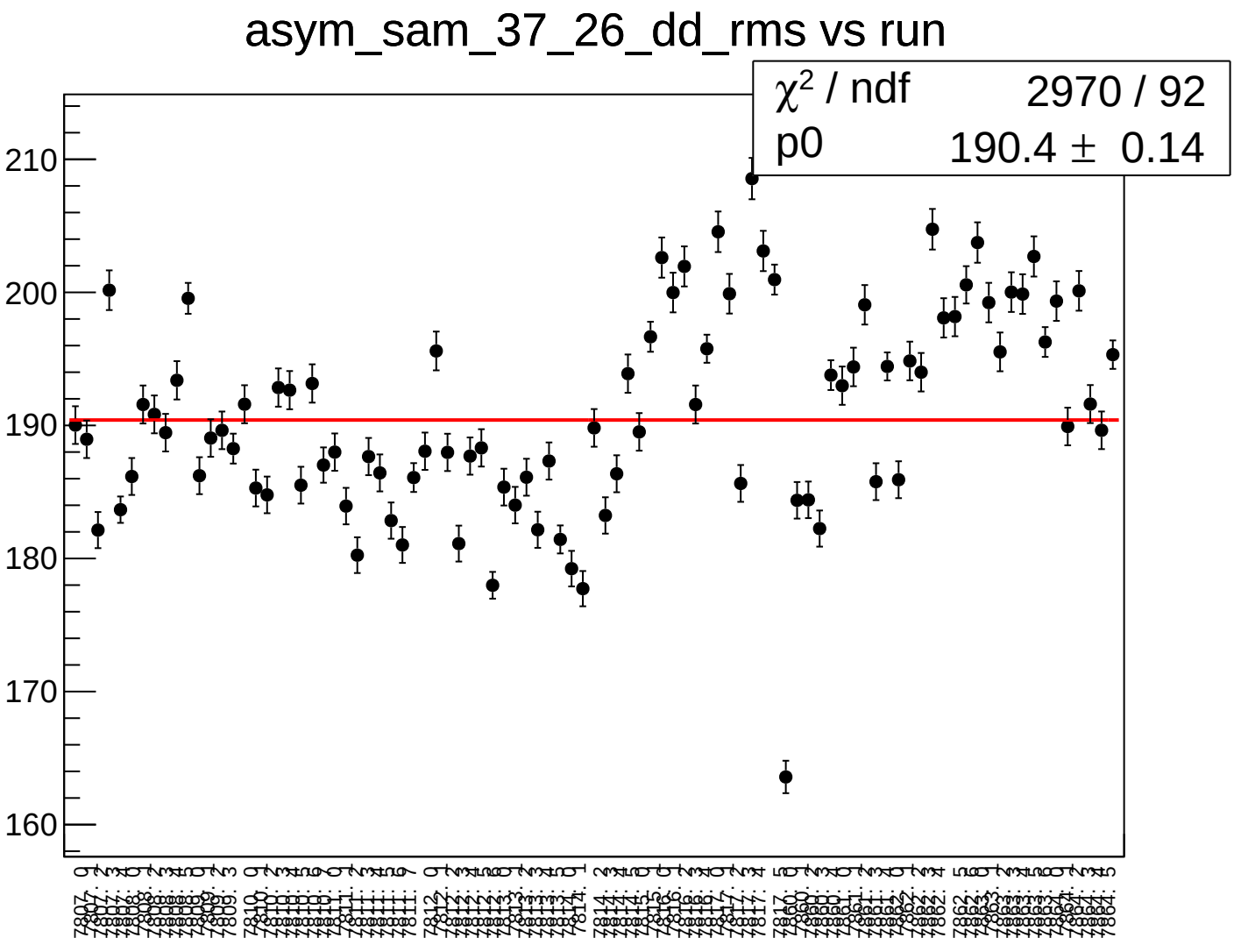

asym_sam_37_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 84.38 / 92
p0 −126.5 ± 172.7
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean −100.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

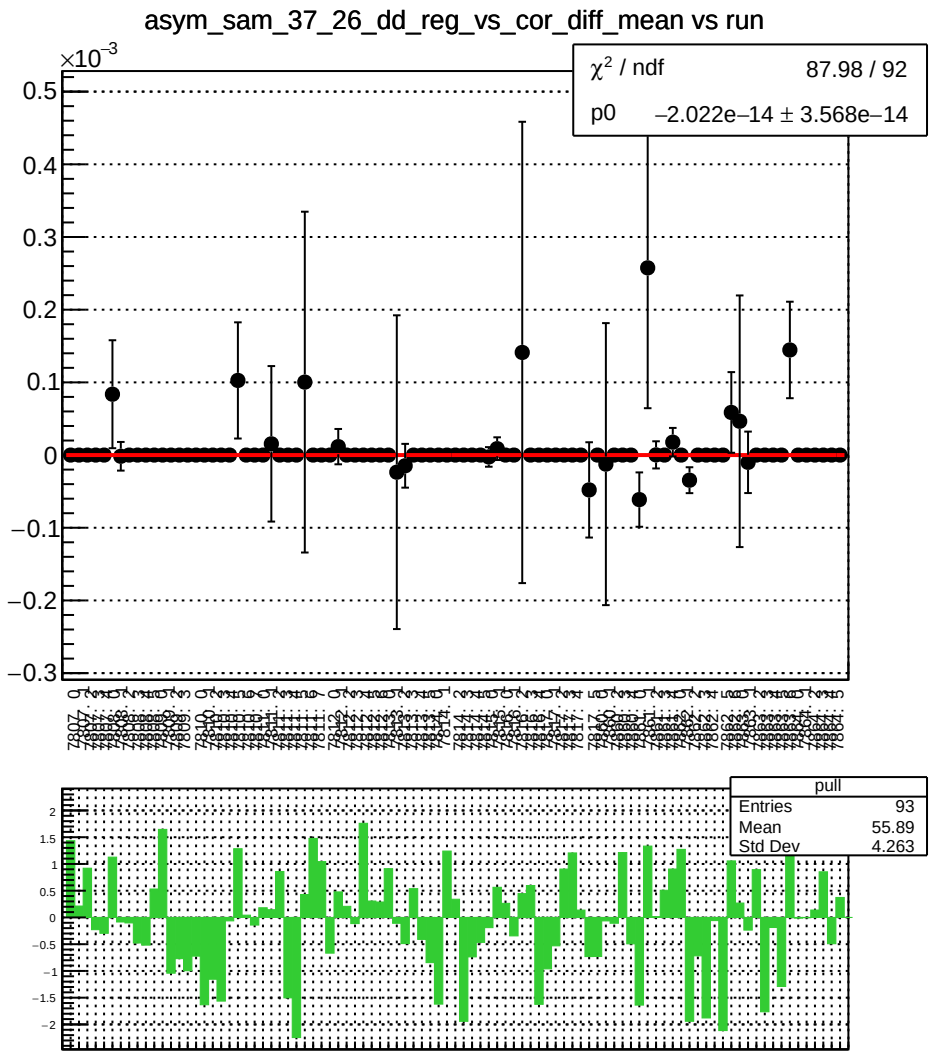

pull1D
Entries 93
Mean −0.01544
Std Dev 0.9524
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

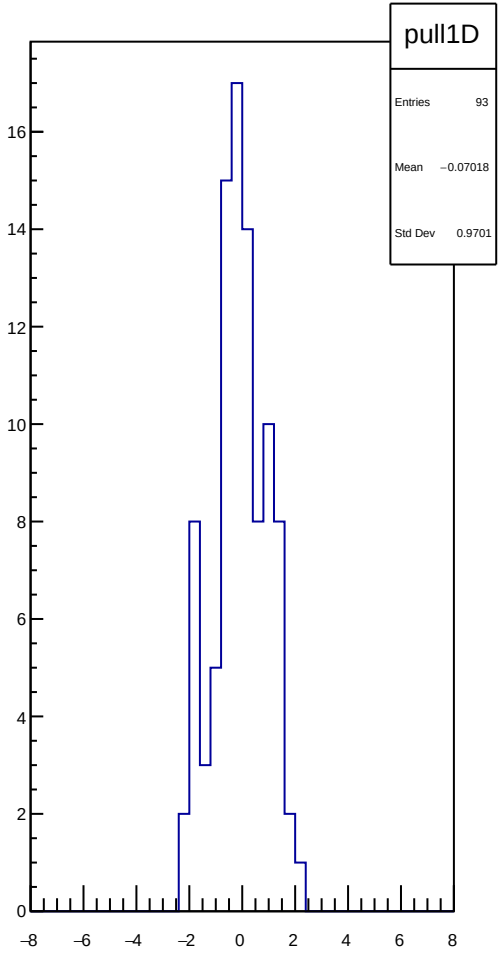

asym_sam_37_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 1149 / 92
p0 166.1 ± 0.1221
180
175
170
165
160
155

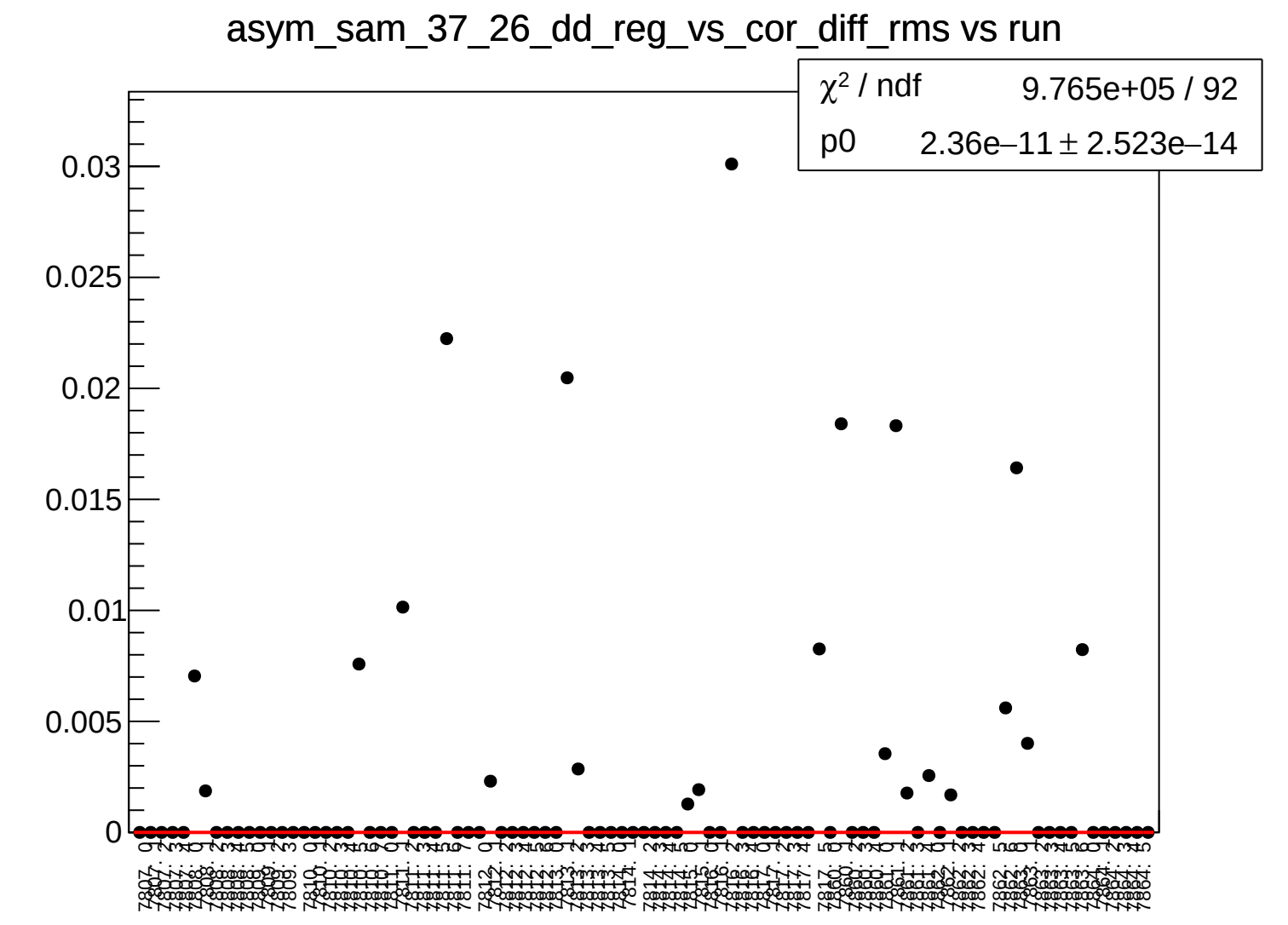

asym_sam_37_26_dd_mean vs run
χ² / ndf 80.76 / 92
p0 200.1 ± 198
pull
Entries 93
Mean −47.5
Std Dev 0

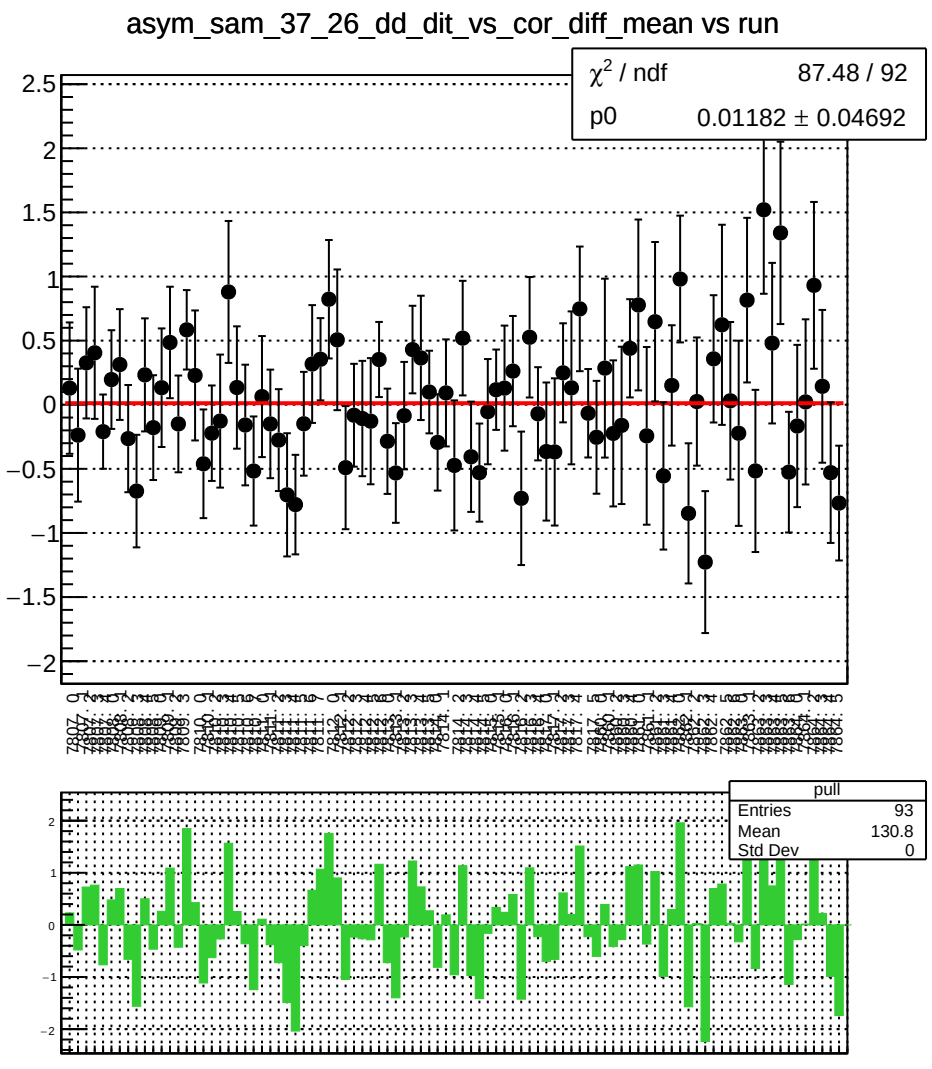

pull1D
Entries 93
Mean 0.02307
Std Dev 0.9316

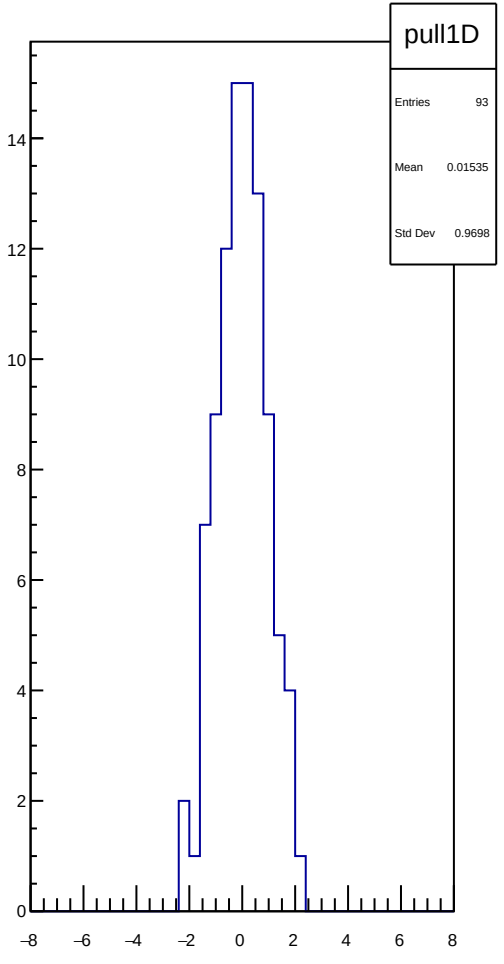

asym_sam_37_26_dd_rms vs run
χ² / ndf 2970 / 92
p0 190.4 ± 0.14
210
200
190
180
170
160

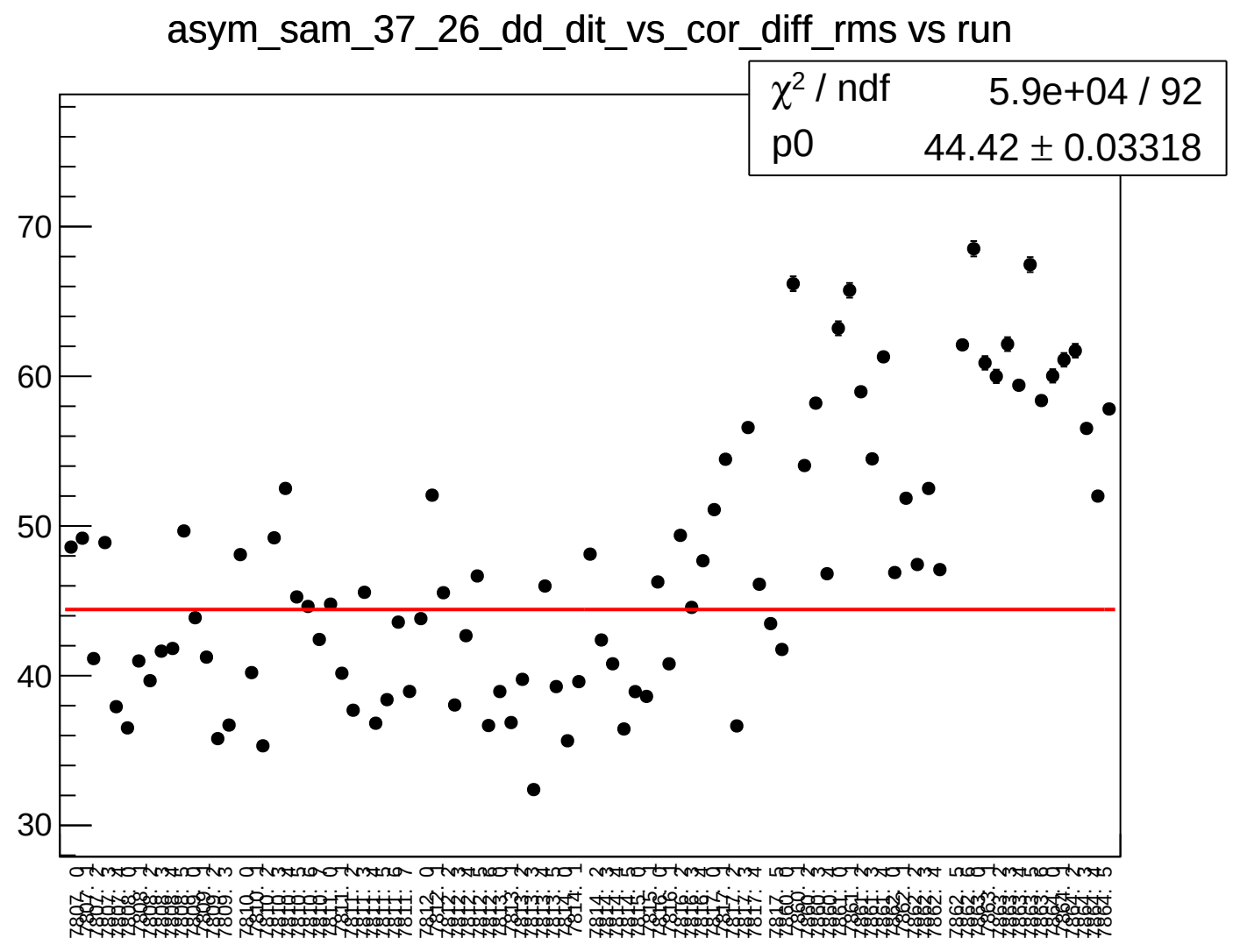

asym_sam_37_26_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 87.98 / 92
p0 −2.022e−14 ± 3.568e−14
pull
Entries 93
Mean 55.89
Std Dev 4.263

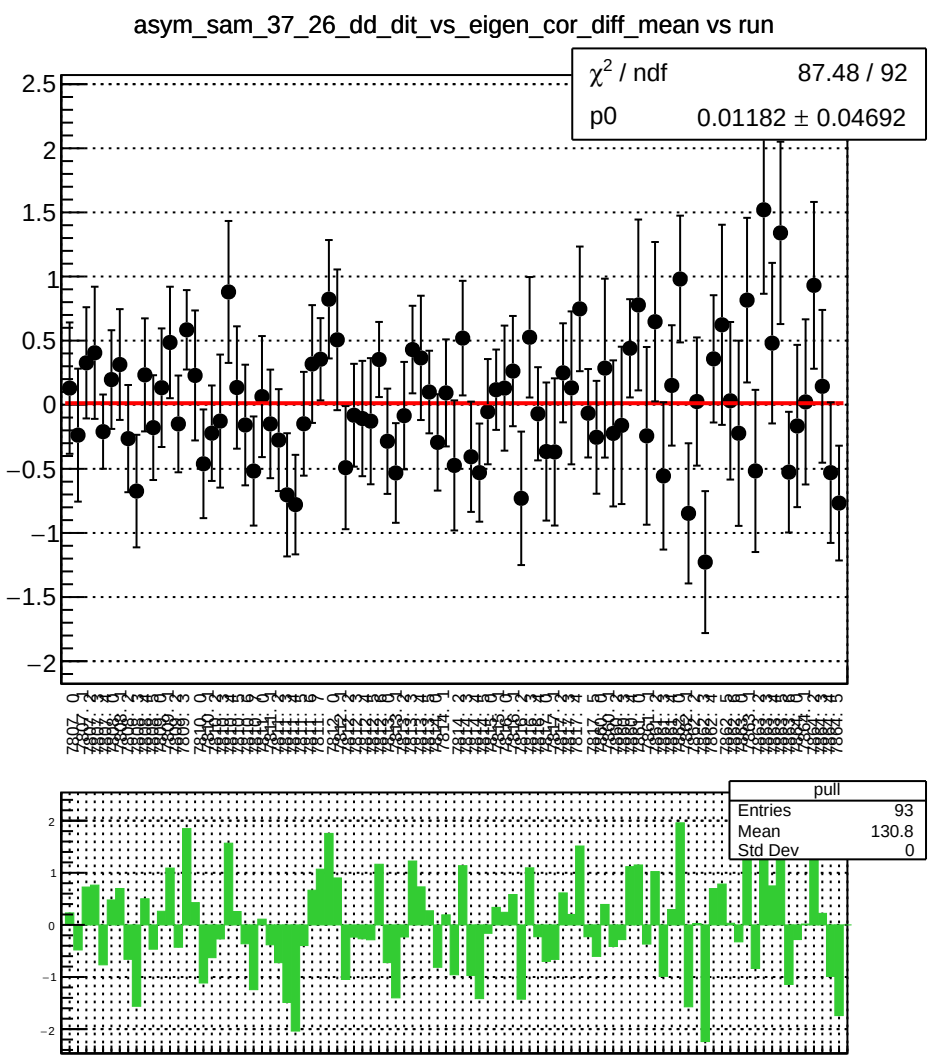

pull1D
Entries 93
Mean −0.07018
Std Dev 0.9701

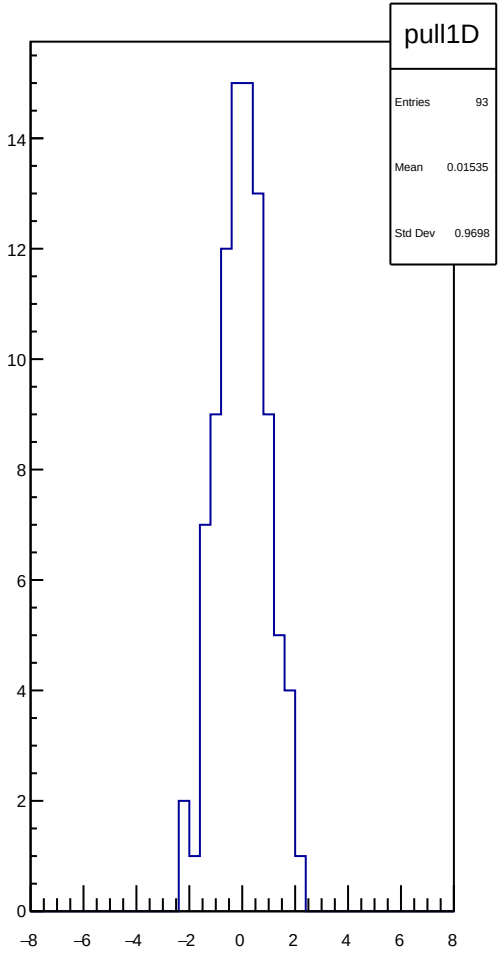

asym_sam_37_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.765e+05 / 92
p0 2.36e−11 ± 2.523e−14
0.03
0.025
0.02
0.015
0.01
0.005
0

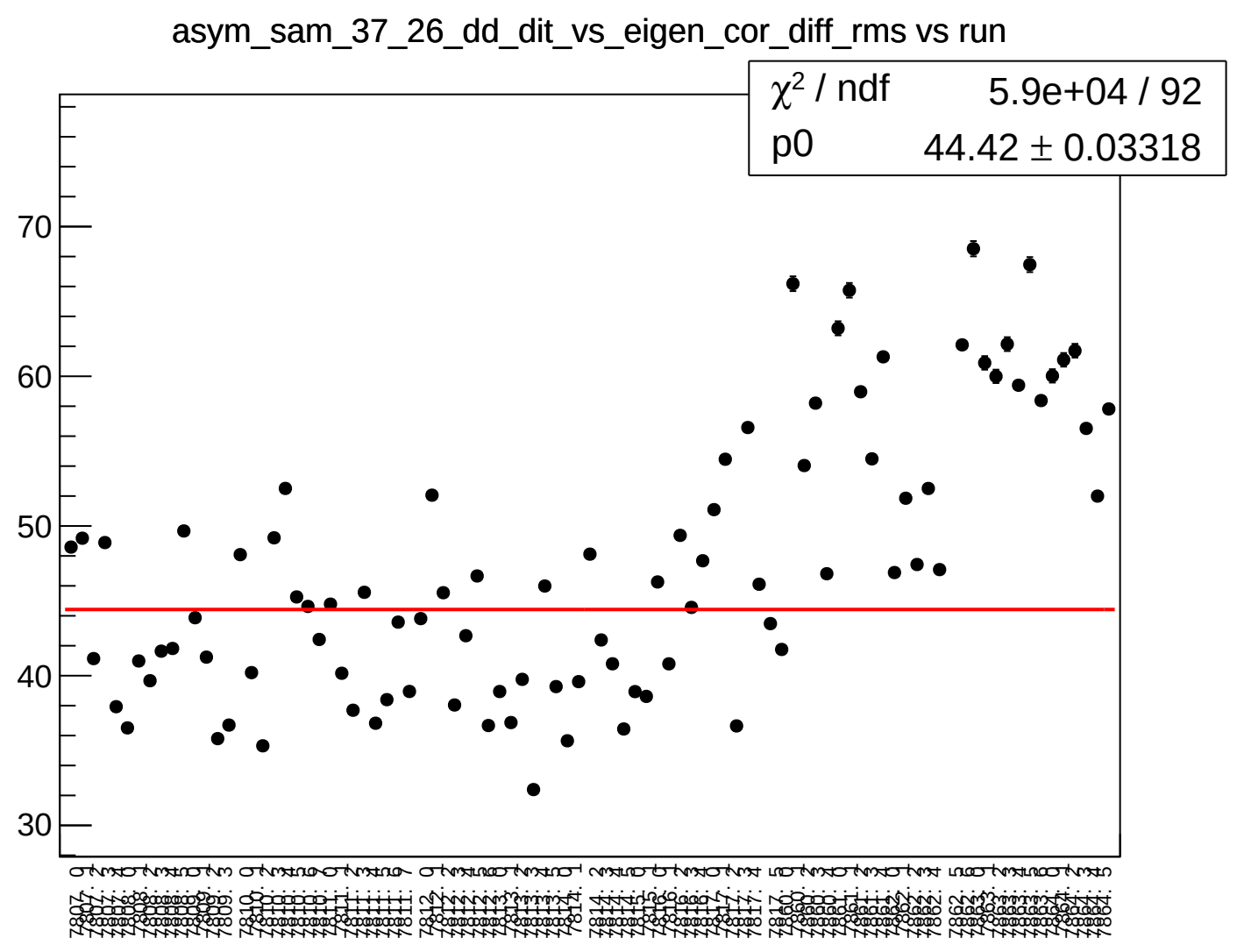

asym_sam_37_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 87.48 / 92
p0 0.01182 ± 0.04692
pull
Entries 93
Mean 130.8
Std Dev 0

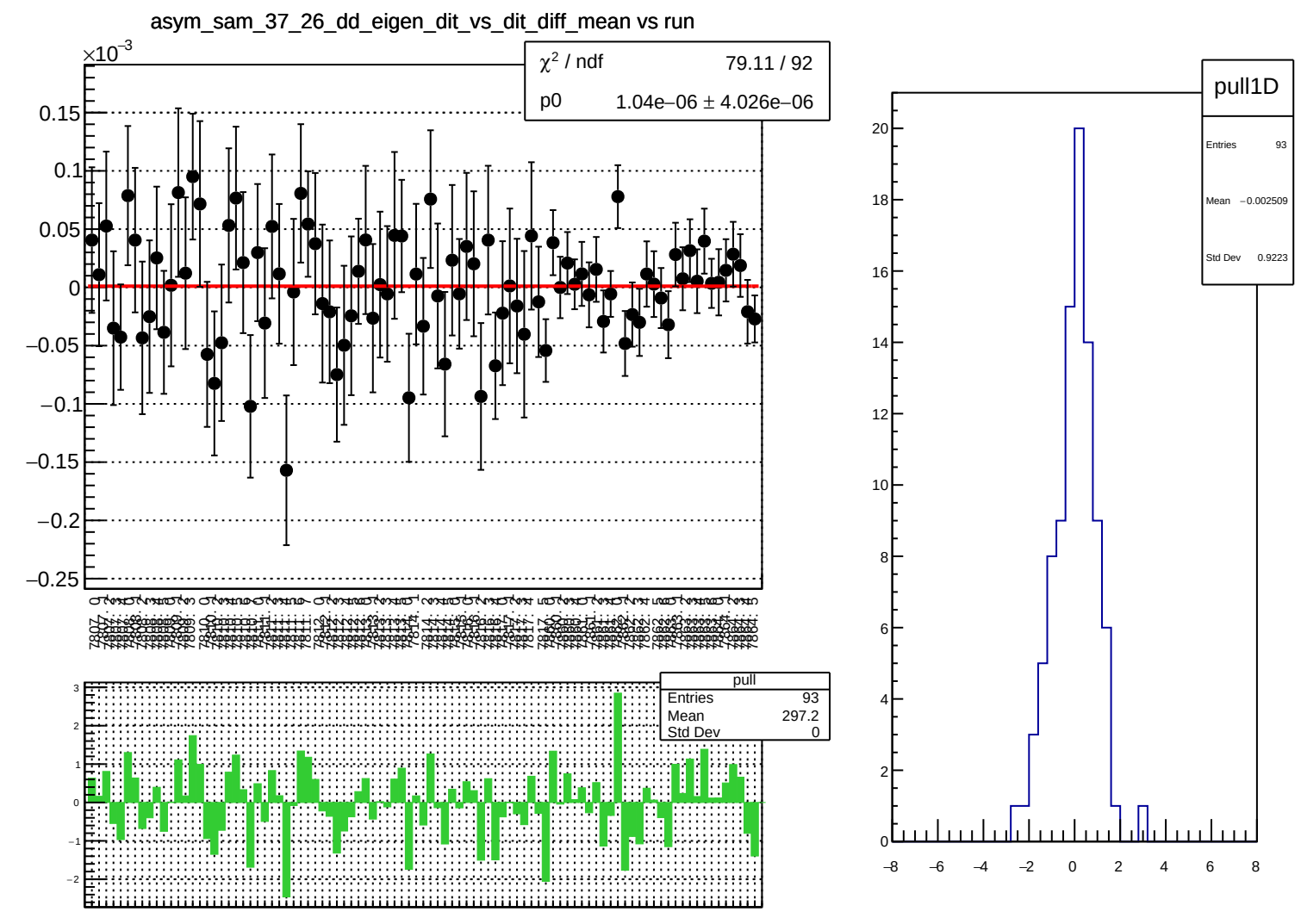

pull1D
Entries 93
Mean 0.01535
Std Dev 0.9698

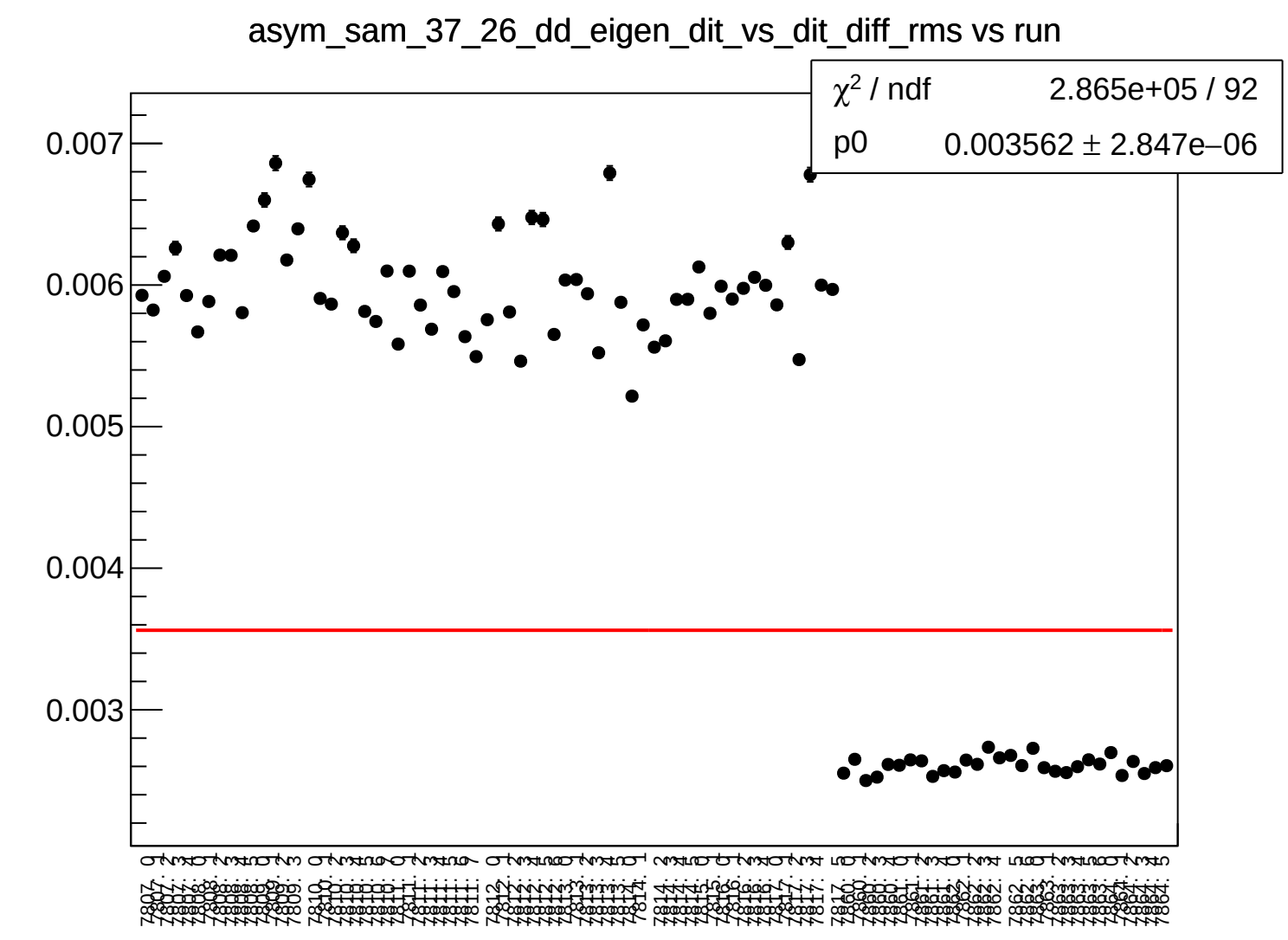

asym_sam_37_26_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 5.9e+04 / 92
p0 44.42 ± 0.03318
70
60
50
40
30

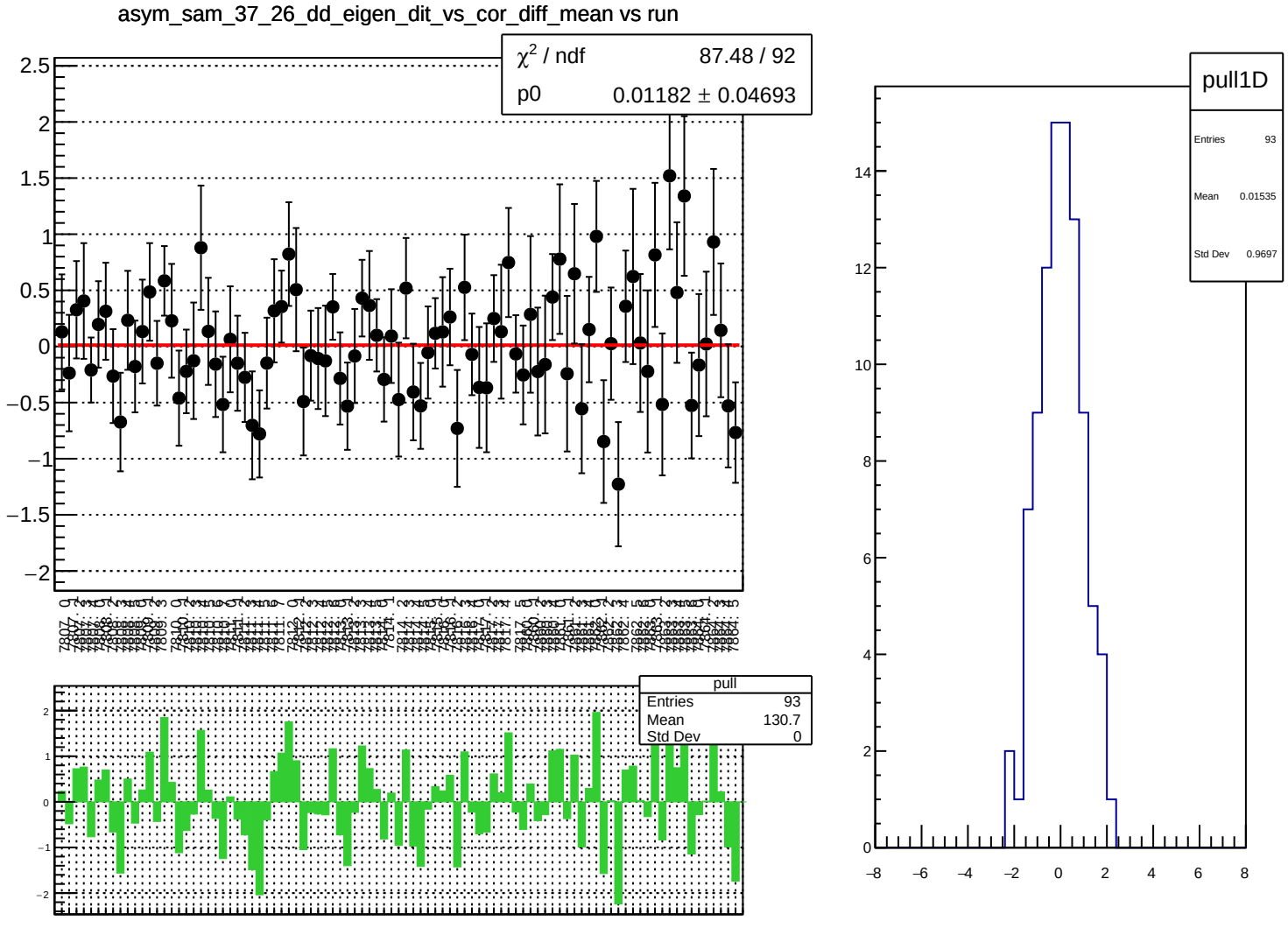

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.48 / 92
p0 0.01182 ± 0.04692
pull
Entries 93
Mean 130.8
Std Dev 0

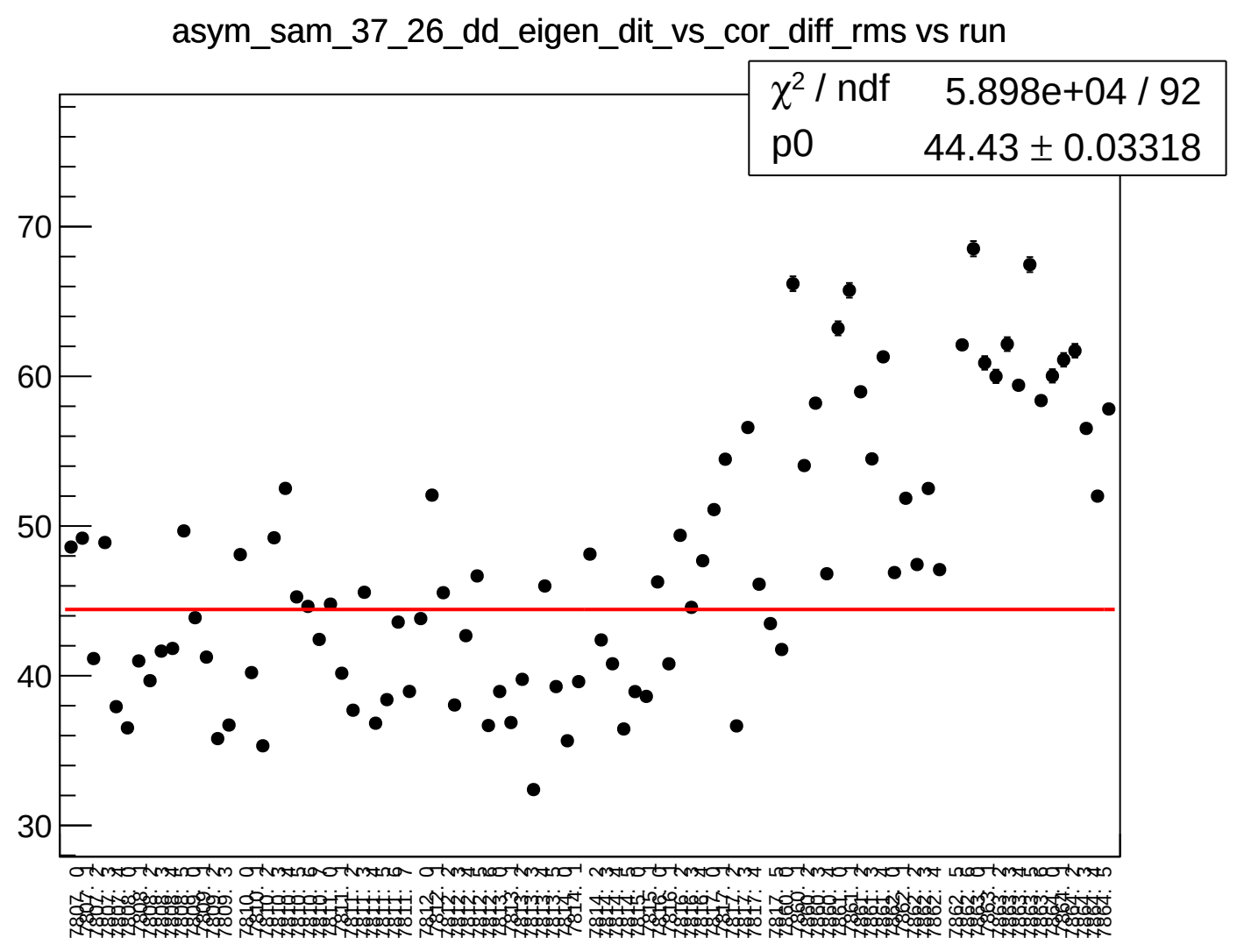

pull1D
Entries 93
Mean 0.01535
Std Dev 0.9698

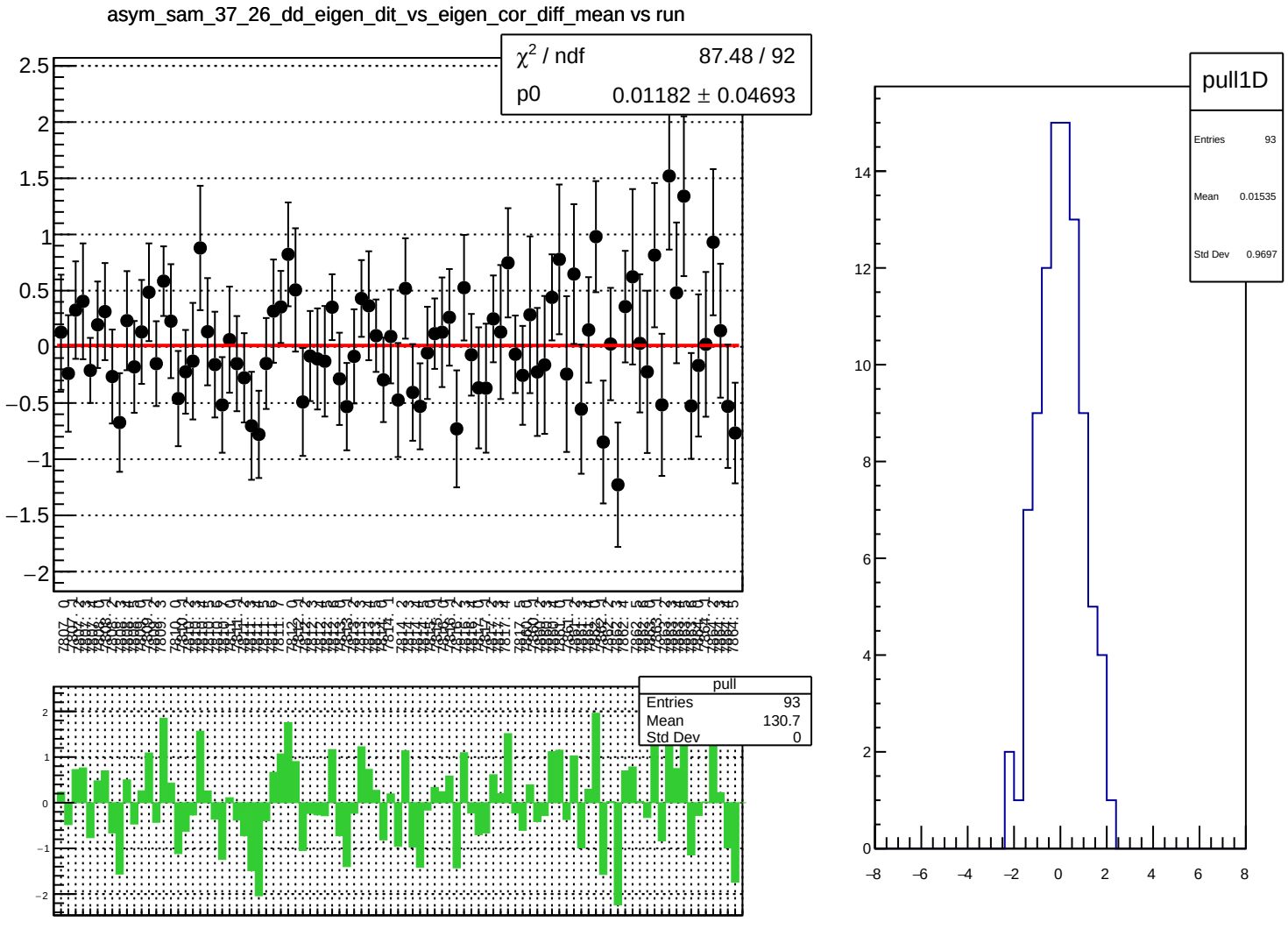

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 5.9e+04 / 92
p0 44.42 ± 0.03318
70
60
50
40
30

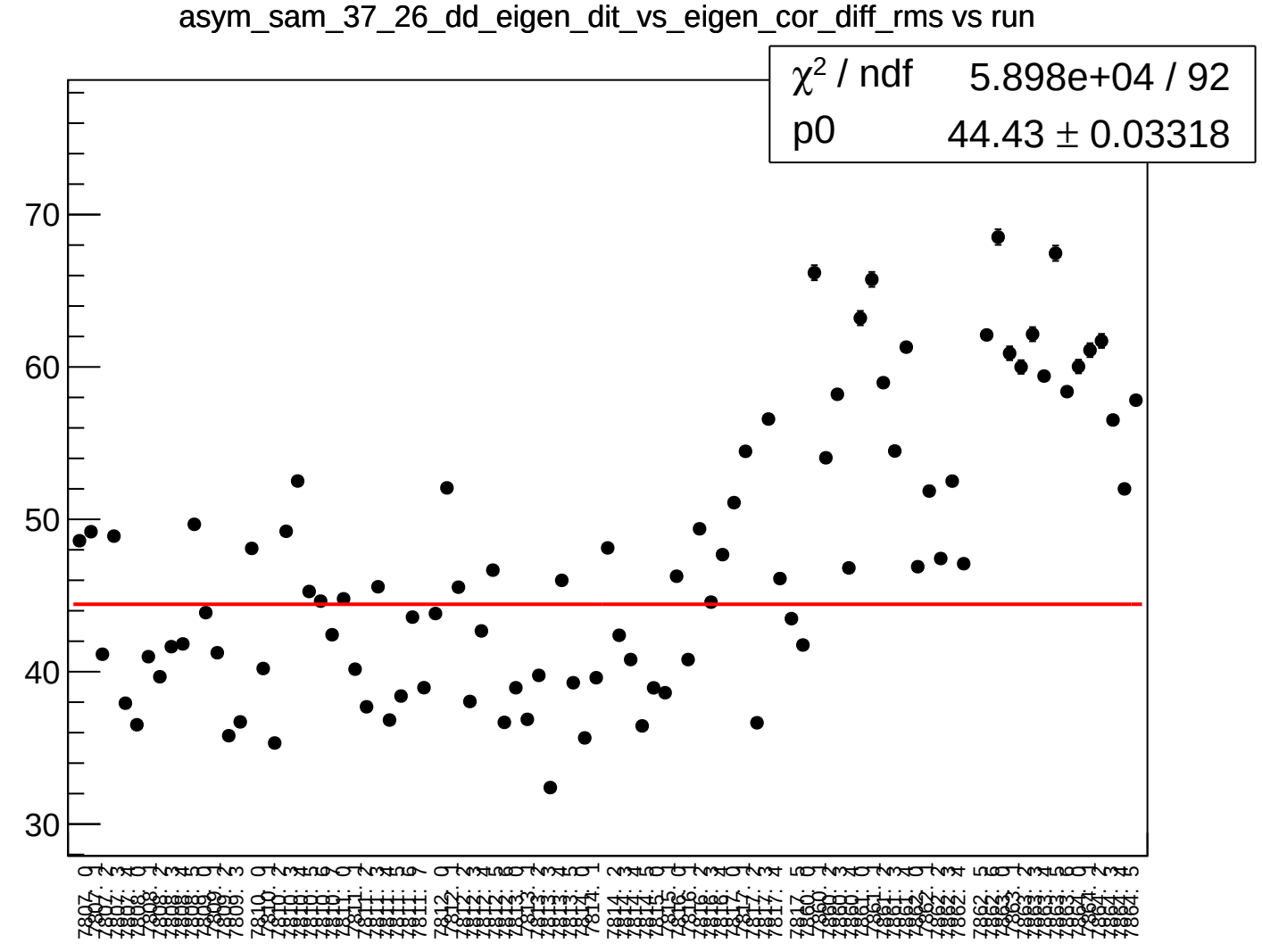

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 79.11 / 92
p0 1.04e−06 ± 4.026e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25
pull
Entries 93
Mean 297.2
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.002509
Std Dev 0.9223
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

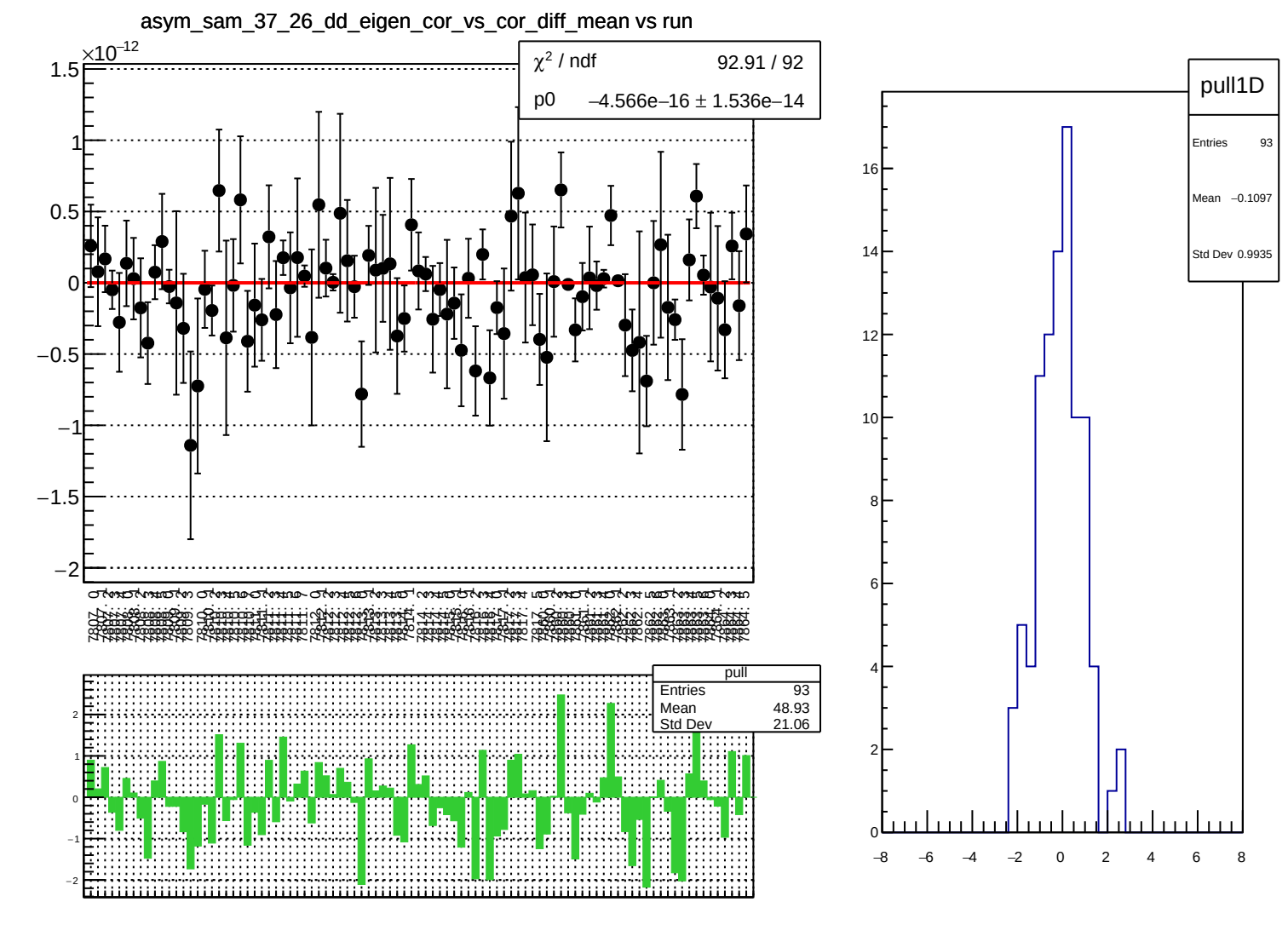

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.865e+05 / 92
p0 0.003562 ± 2.847e−06
0.007
0.006
0.005
0.004
0.003

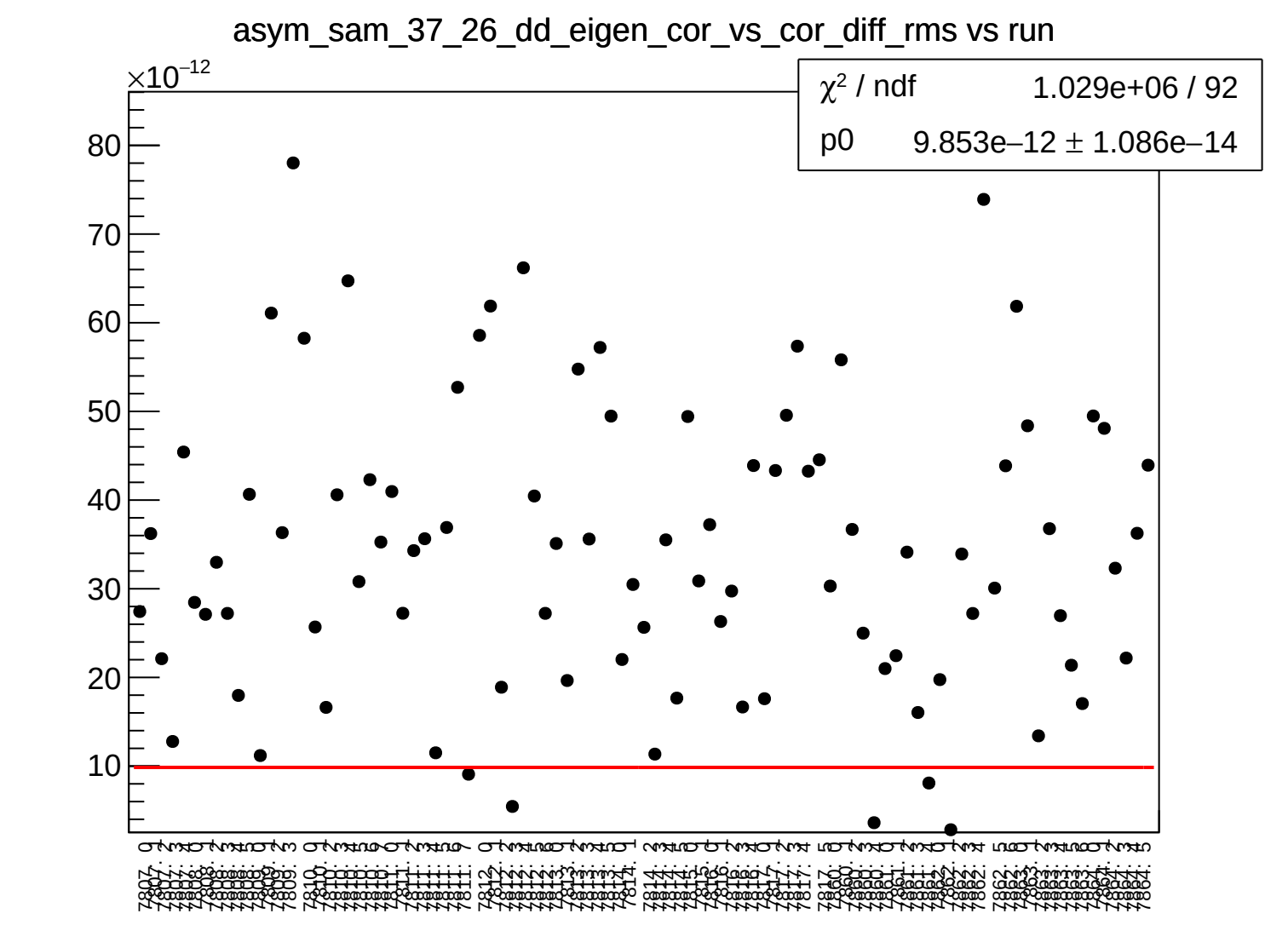

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.48 / 92
p0 0.01182 ± 0.04693
pull
Entries 93
Mean 130.7
Std Dev 0
pull1D
Entries 93
Mean 0.01535
Std Dev 0.9697

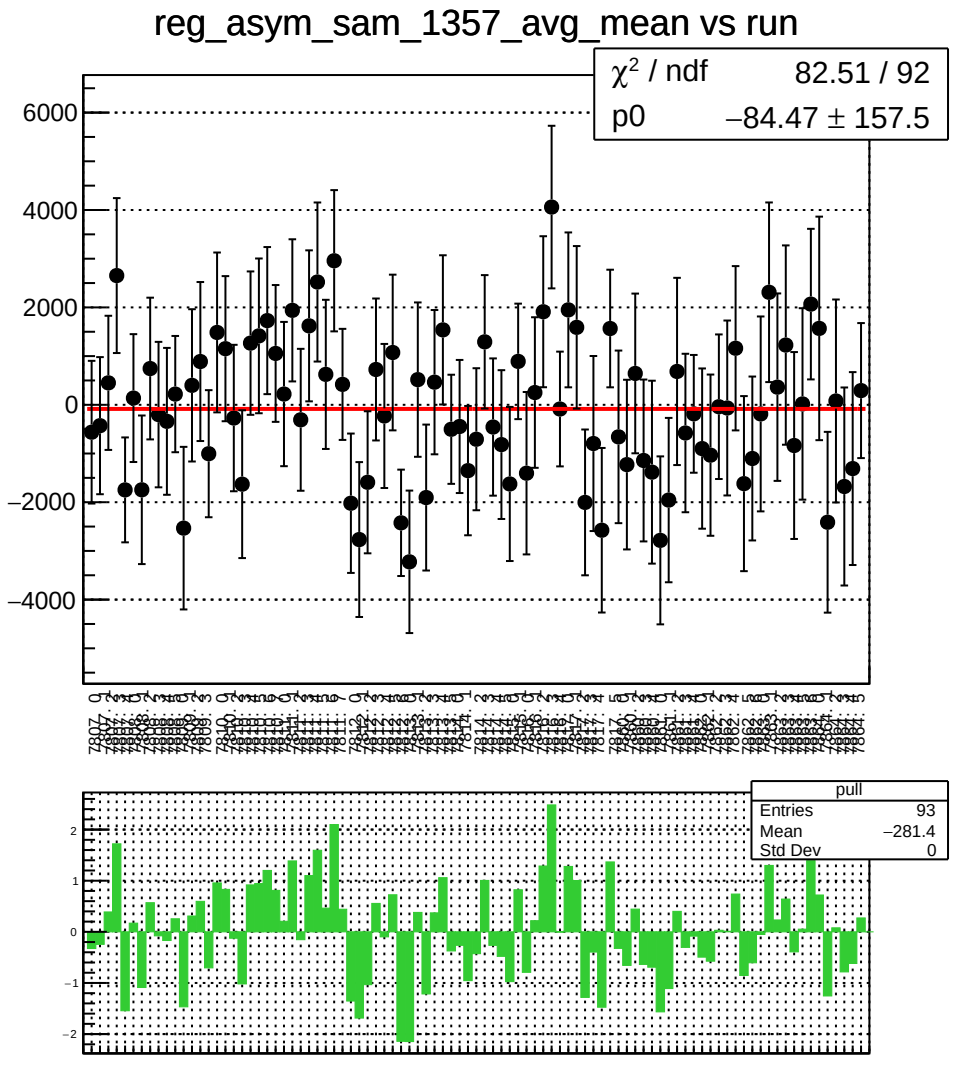

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 5.898e+04 / 92
p0 44.43 ± 0.03318
70
60
50
40
30

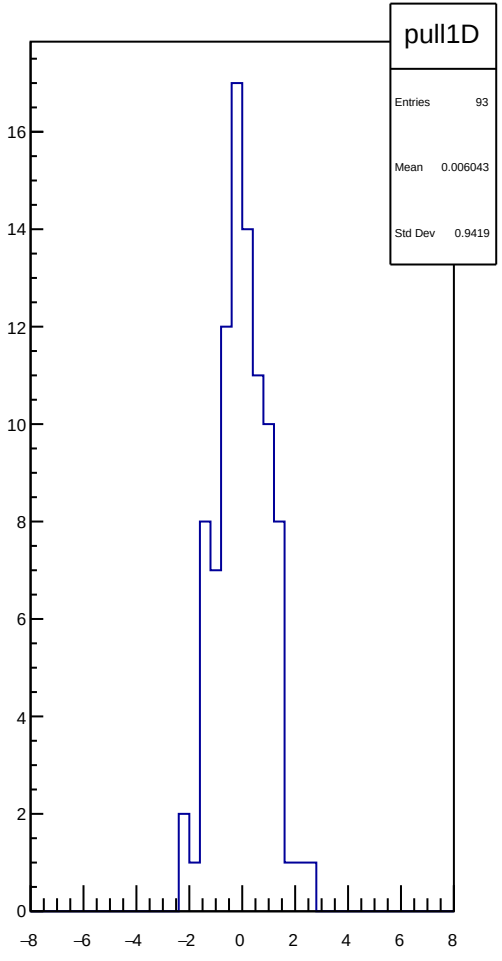

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.48 / 92
p0 0.01182 ± 0.04693
pull
Entries 93
Mean 130.7
Std Dev 0
pull1D
Entries 93
Mean 0.01535
Std Dev 0.9697

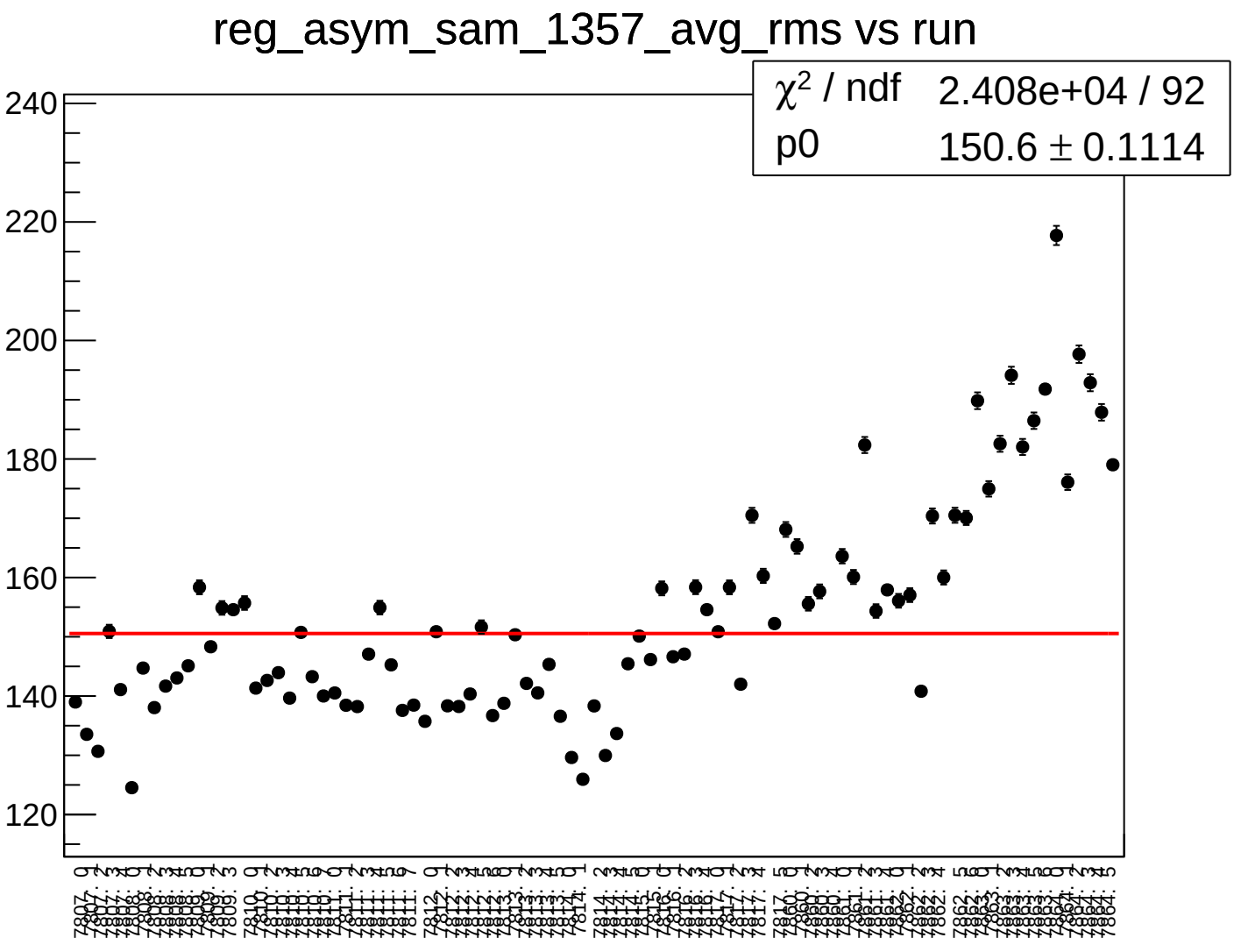

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 5.898e+04 / 92
p0 44.43 ± 0.03318
70
60
50
40
30

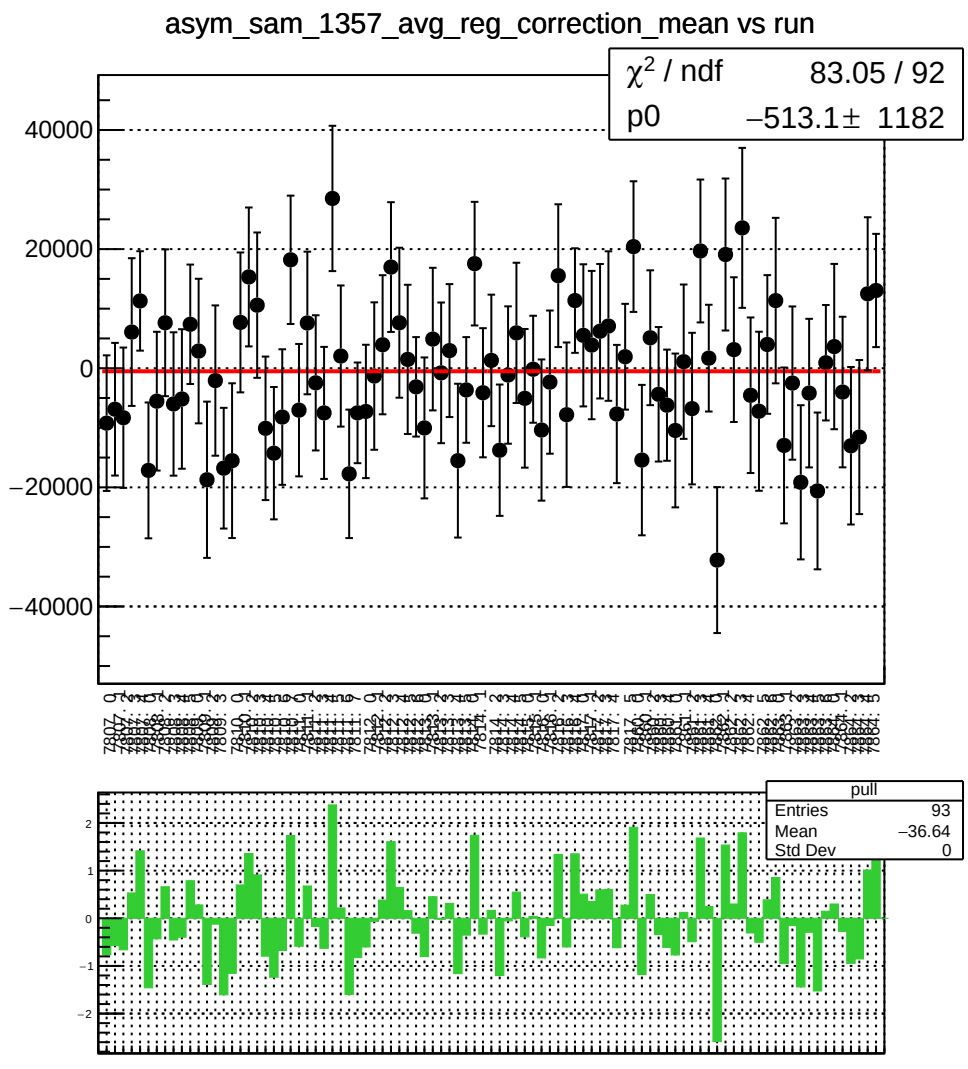

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.91 / 92
p0 −4.566e−16 ± 1.536e−14
pull
Entries 93
Mean 48.93
Std Dev 21.06
pull1D
Entries 93
Mean −0.1097
Std Dev 0.9935

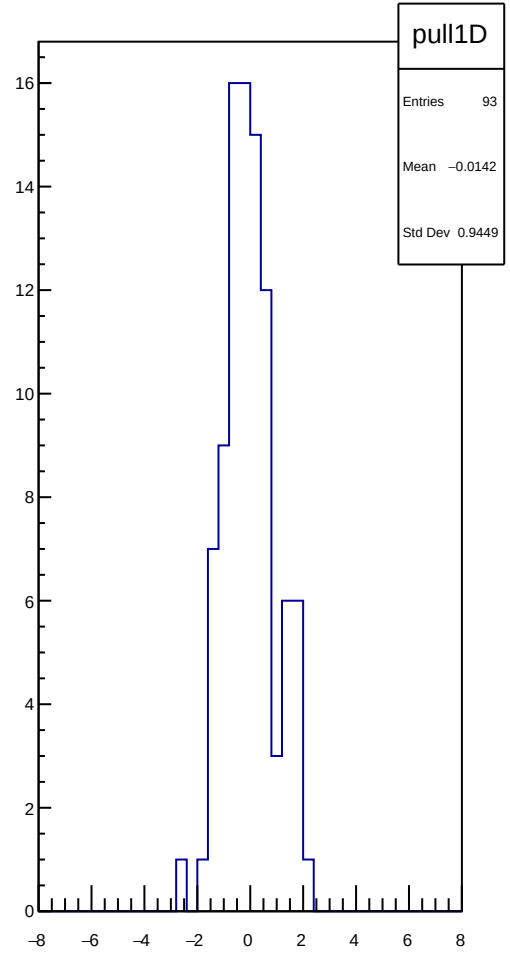

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.029e+06 / 92
p0 9.853e−12 ± 1.086e−14
80
70
60
50
40
30
20
10

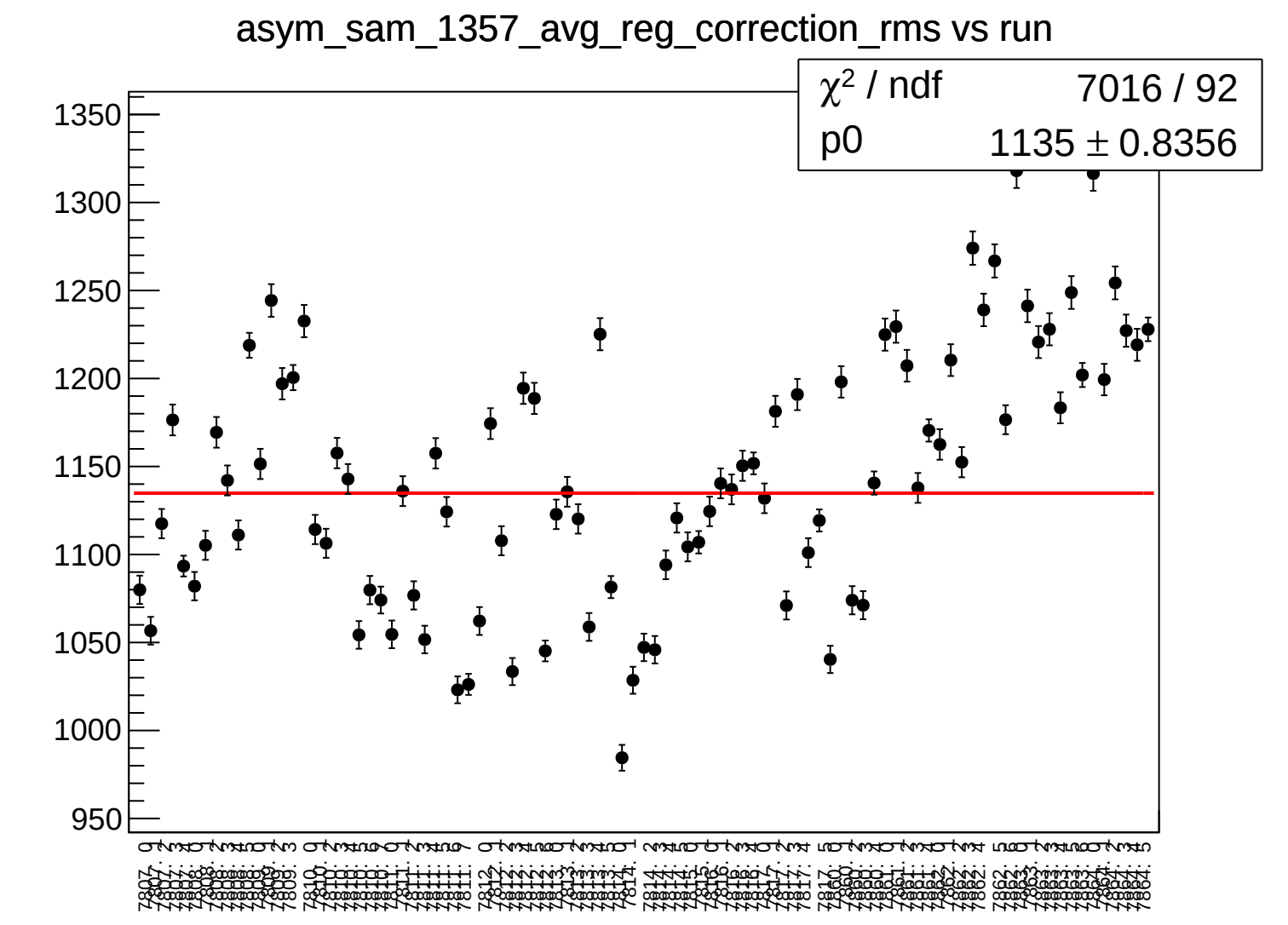

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 82.51 / 92
p0 −84.47 ± 157.5
6000
4000
2000
0
−2000
−4000
pull
Entries 93
Mean −281.4
Std Dev 0
2
1
0
−1
−2

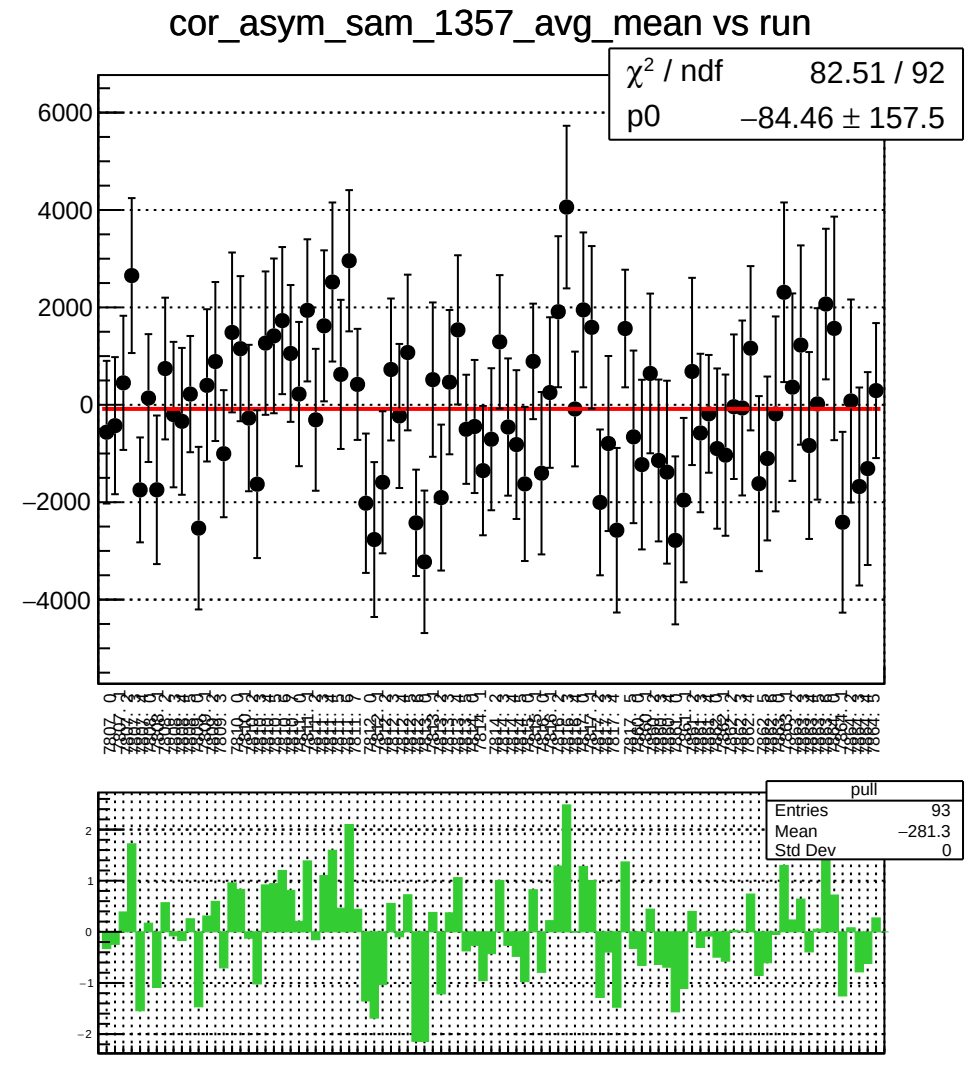

pull1D
Entries 93
Mean 0.006043
Std Dev 0.9419
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

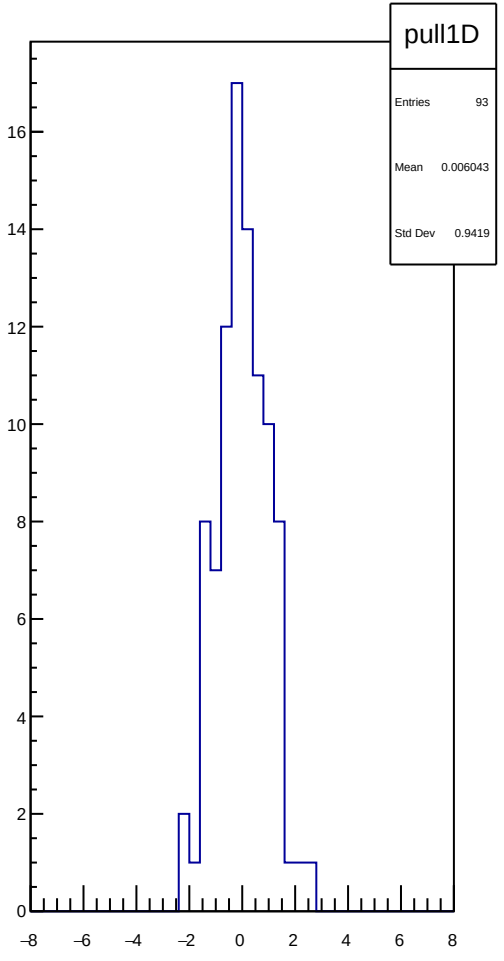

reg_asym_sam_1357_avg_rms vs run
χ² / ndf 2.408e+04 / 92
p0 150.6 ± 0.1114
240
220
200
180
160
140
120

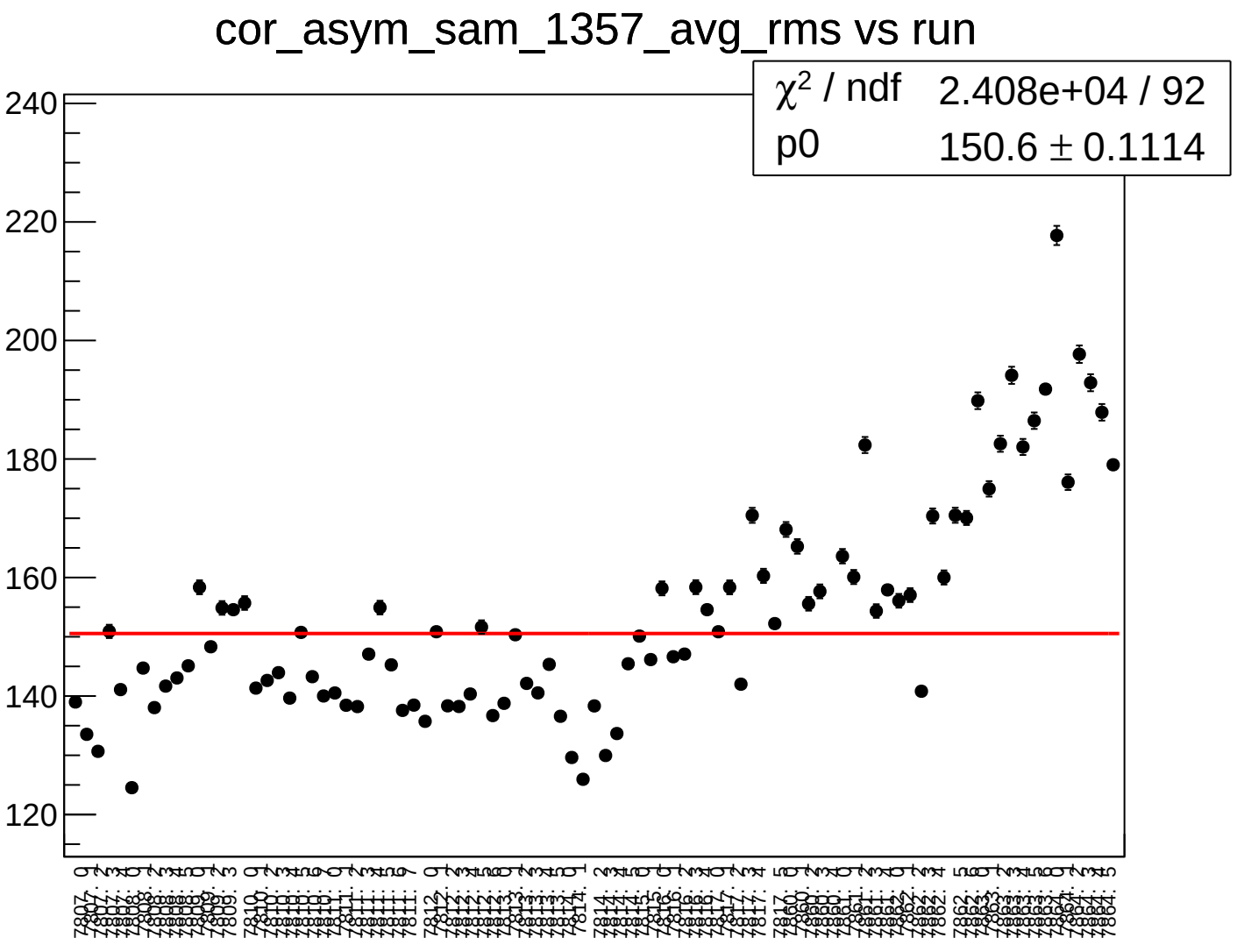

asym_sam_1357_avg_reg_correction_mean vs run
χ² / ndf 83.05 / 92
p0 −513.1± 1182
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −36.64
Std Dev 0
2
1
0
−1
−2

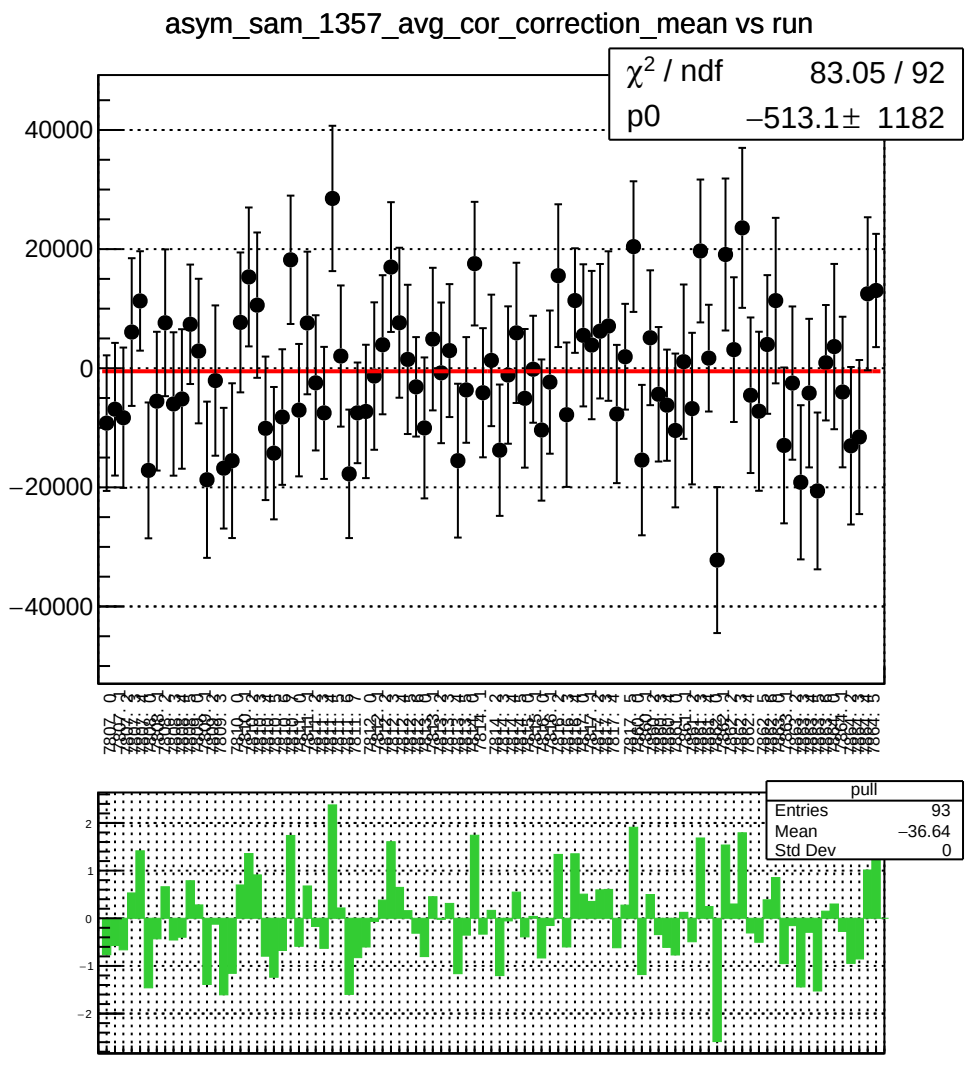

pull1D
Entries 93
Mean −0.0142
Std Dev 0.9449
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

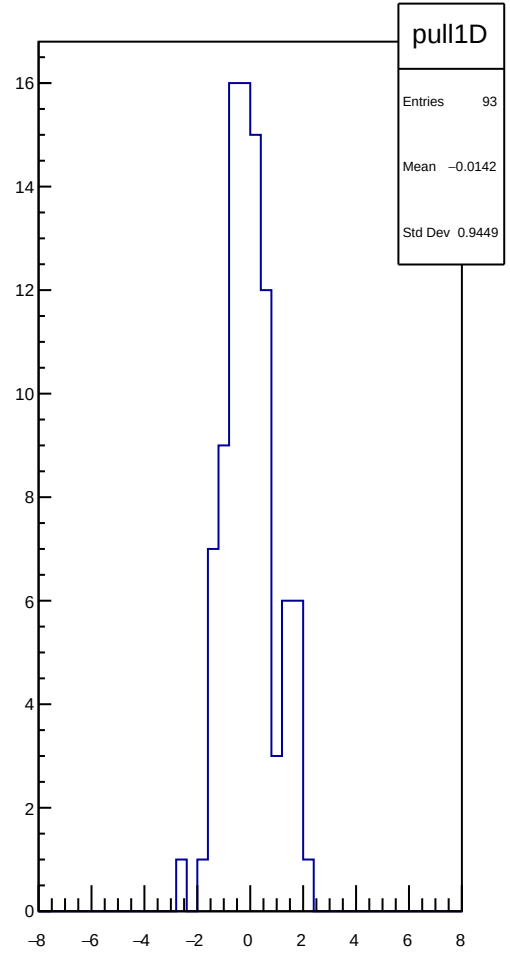

asym_sam_1357_avg_reg_correction_rms vs run
χ² / ndf 7016 / 92
p0 1135 ± 0.8356
1350
1300
1250
1200
1150
1100
1050
1000
950

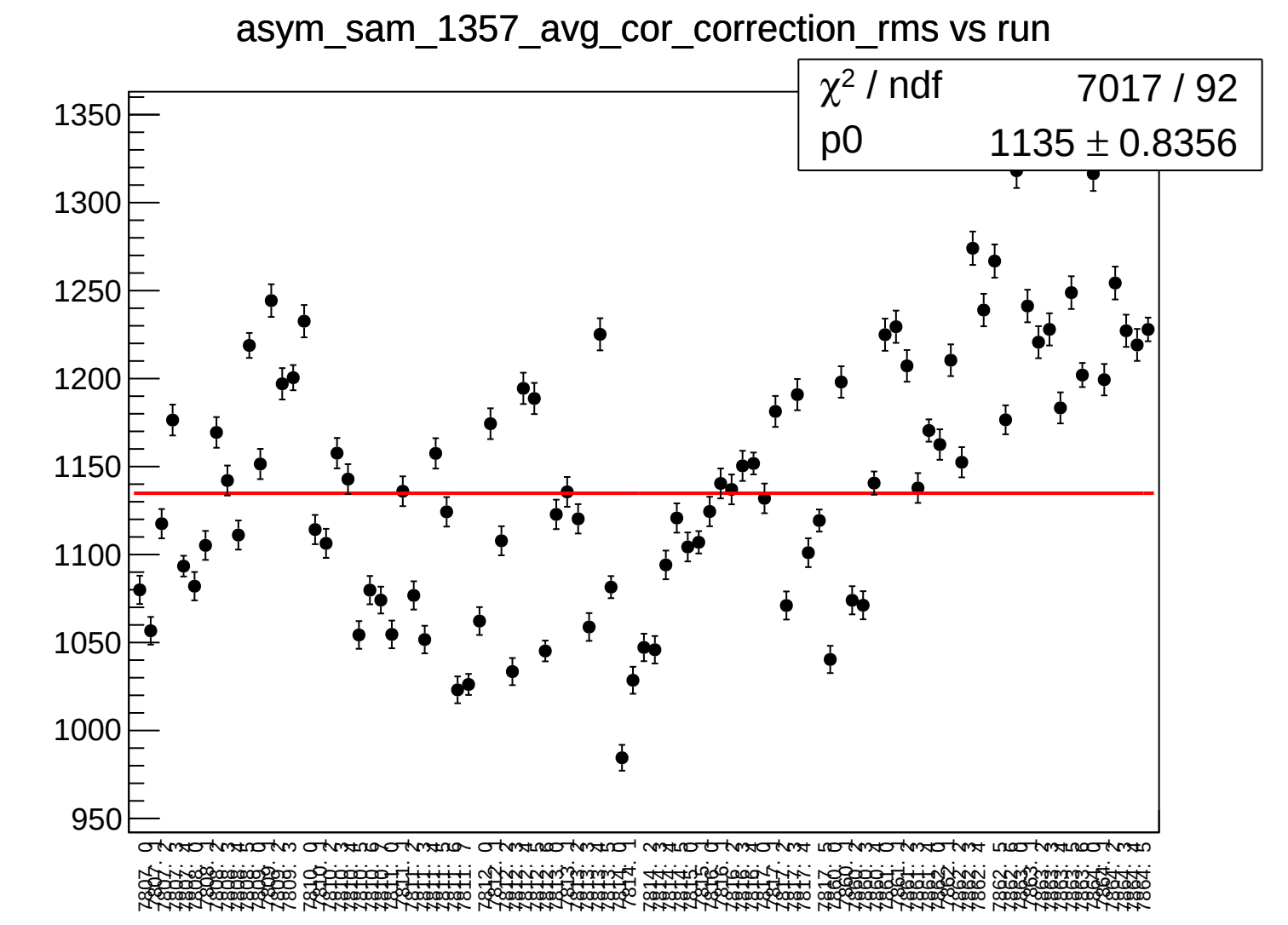

cor_asym_sam_1357_avg_mean vs run
χ² / ndf 82.51 / 92
p0 −84.46 ± 157.5
6000
4000
2000
0
−2000
−4000
pull
Entries 93
Mean −281.3
Std Dev 0
2
1
0
−1
−2

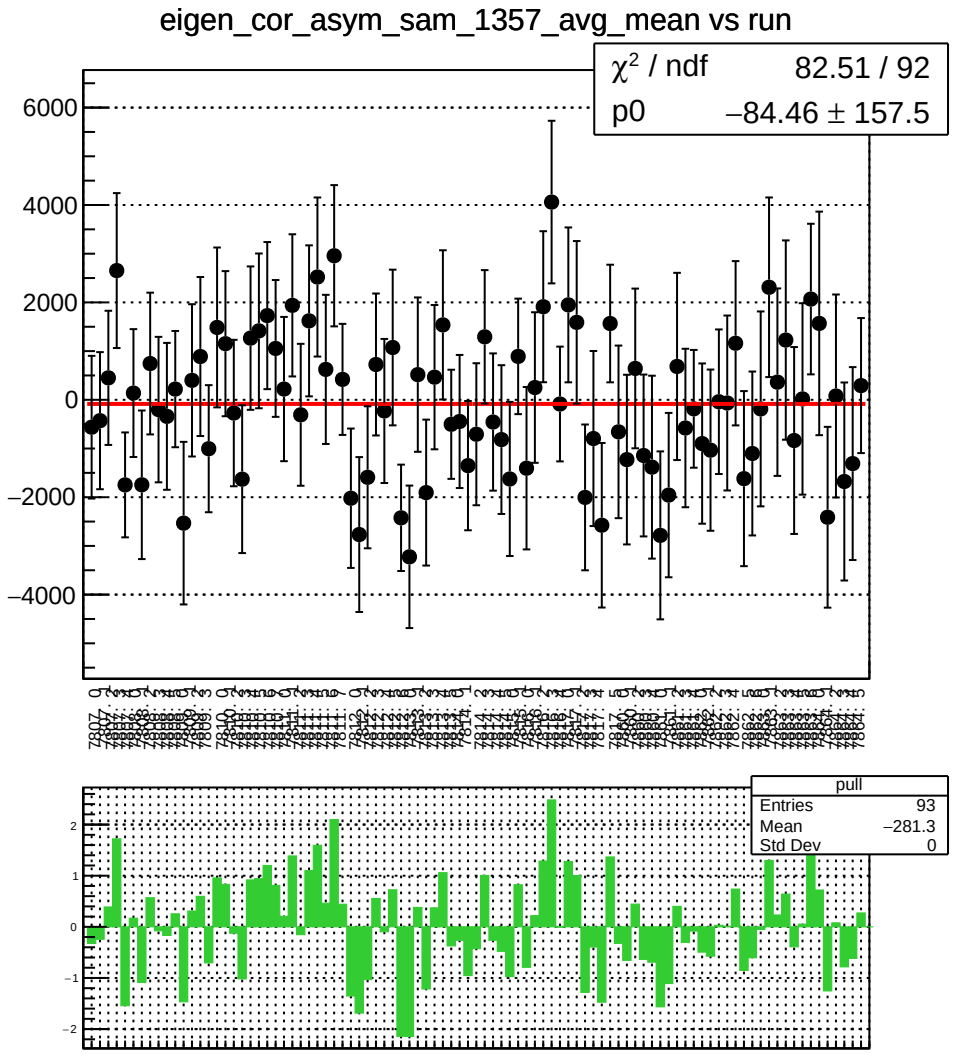

pull1D
Entries 93
Mean 0.006043
Std Dev 0.9419
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

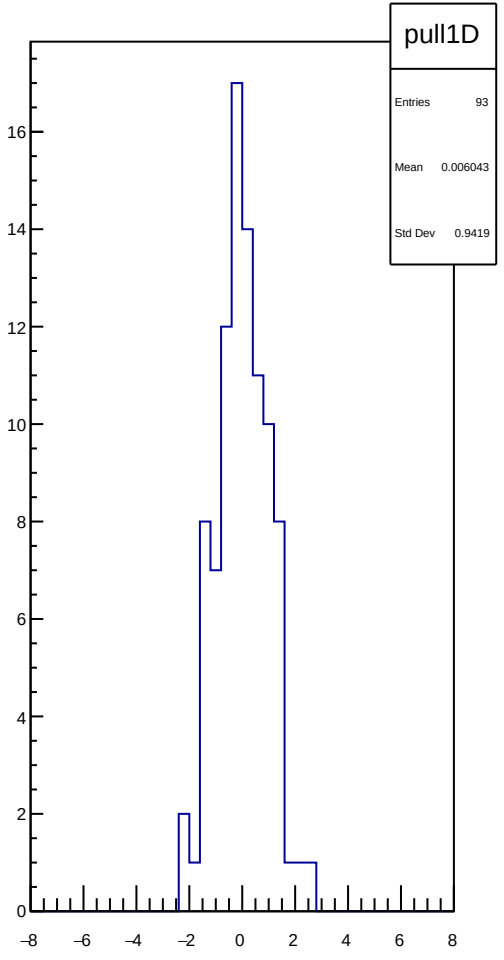

cor_asym_sam_1357_avg_rms vs run
χ² / ndf 2.408e+04 / 92
p0 150.6 ± 0.1114
240
220
200
180
160
140
120

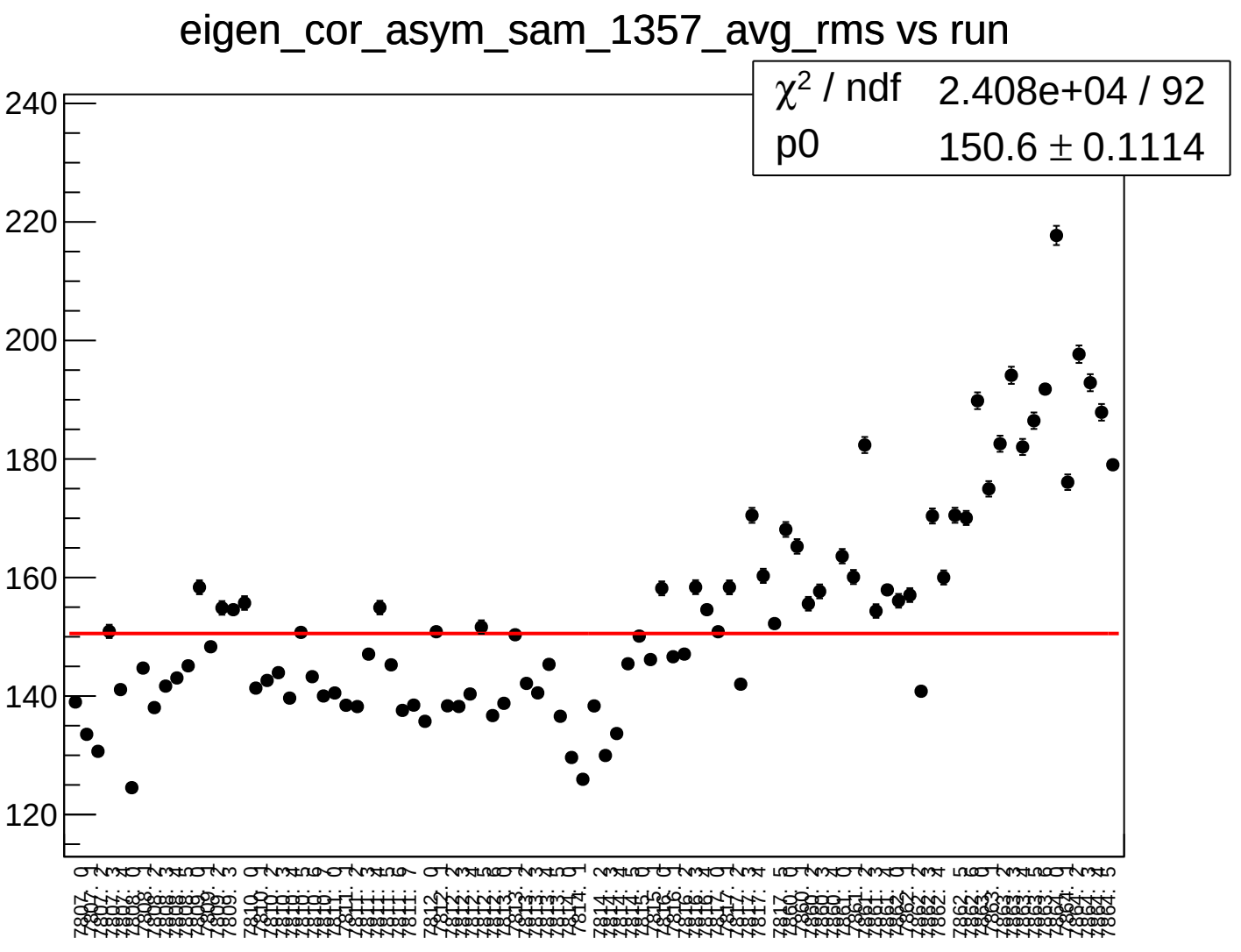

asym_sam_1357_avg_cor_correction_mean vs run
χ² / ndf 83.05 / 92
p0 −513.1± 1182
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −36.64
Std Dev 0
2
1
0
−1
−2

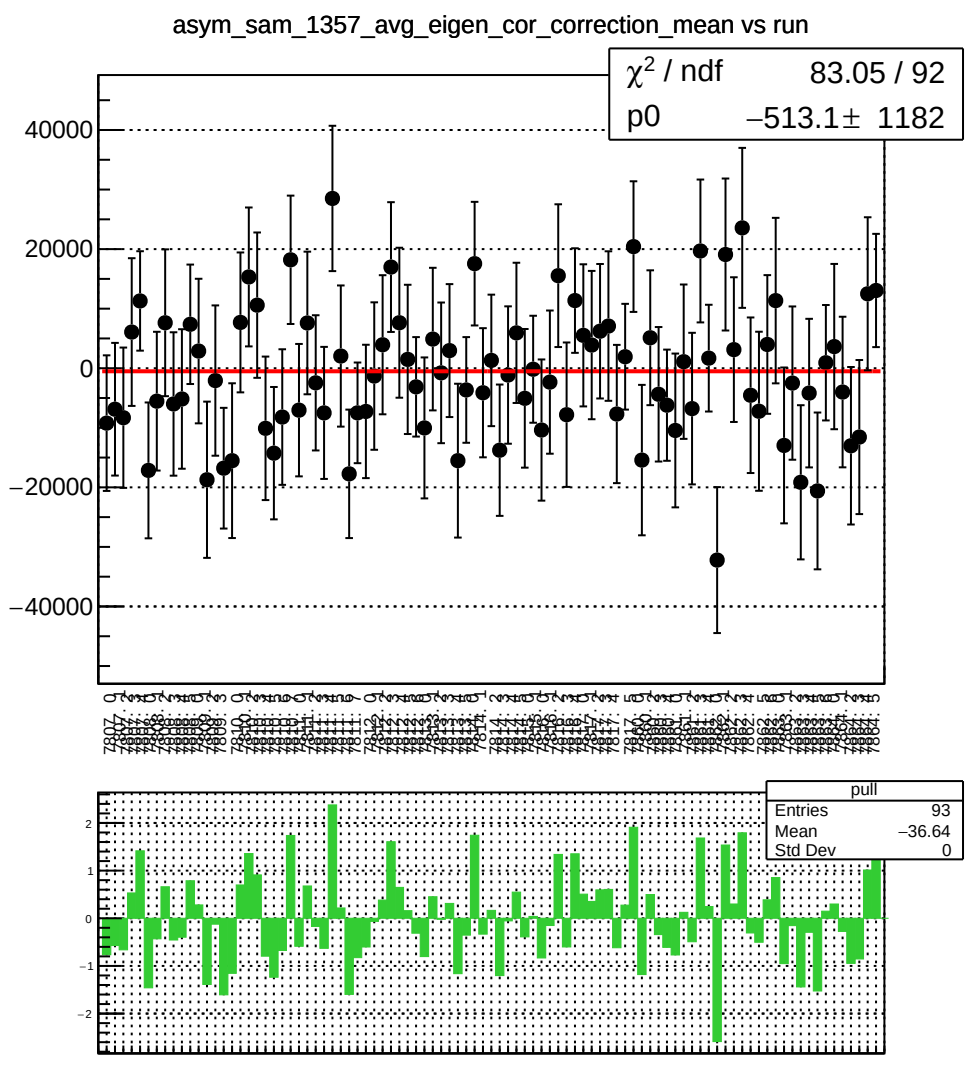

pull1D
Entries 93
Mean −0.0142
Std Dev 0.9449
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

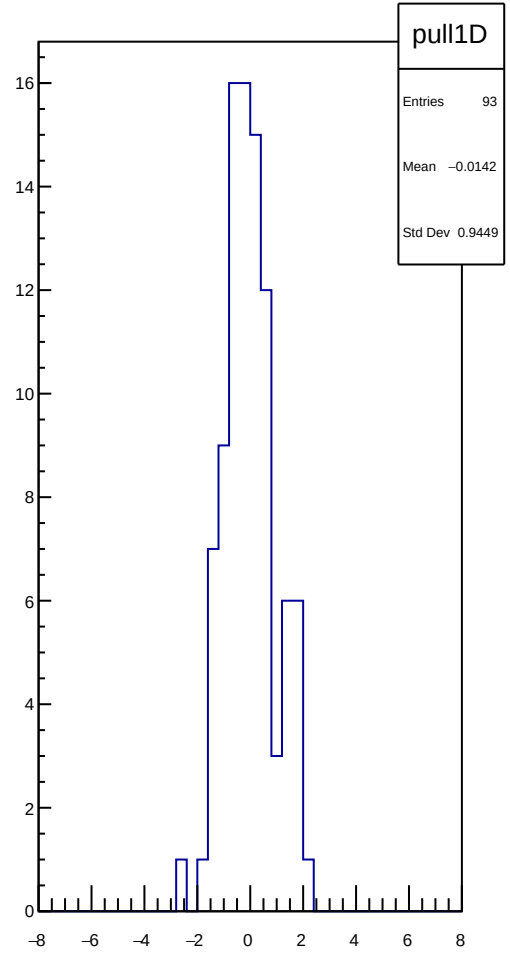

asym_sam_1357_avg_cor_correction_rms vs run
χ² / ndf 7017 / 92
p0 1135 ± 0.8356
1350
1300
1250
1200
1150
1100
1050
1000
950


eigen_cor_asym_sam_1357_avg_mean vs run
χ² / ndf 82.51 / 92
p0 −84.46 ± 157.5
6000
4000
2000
0
−2000
−4000
pull
Entries 93
Mean −281.3
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 93
Mean 0.006043
Std Dev 0.9419
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 2.408e+04 / 92
p0 150.6 ± 0.1114
240
220
200
180
160
140
120


asym_sam_1357_avg_eigen_cor_correction_mean vs run
χ² / ndf 83.05 / 92
p0 −513.1± 1182
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −36.64
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 93
Mean −0.0142
Std Dev 0.9449
16
14
12
10
8
6
4
2
0
−8
−6
−4
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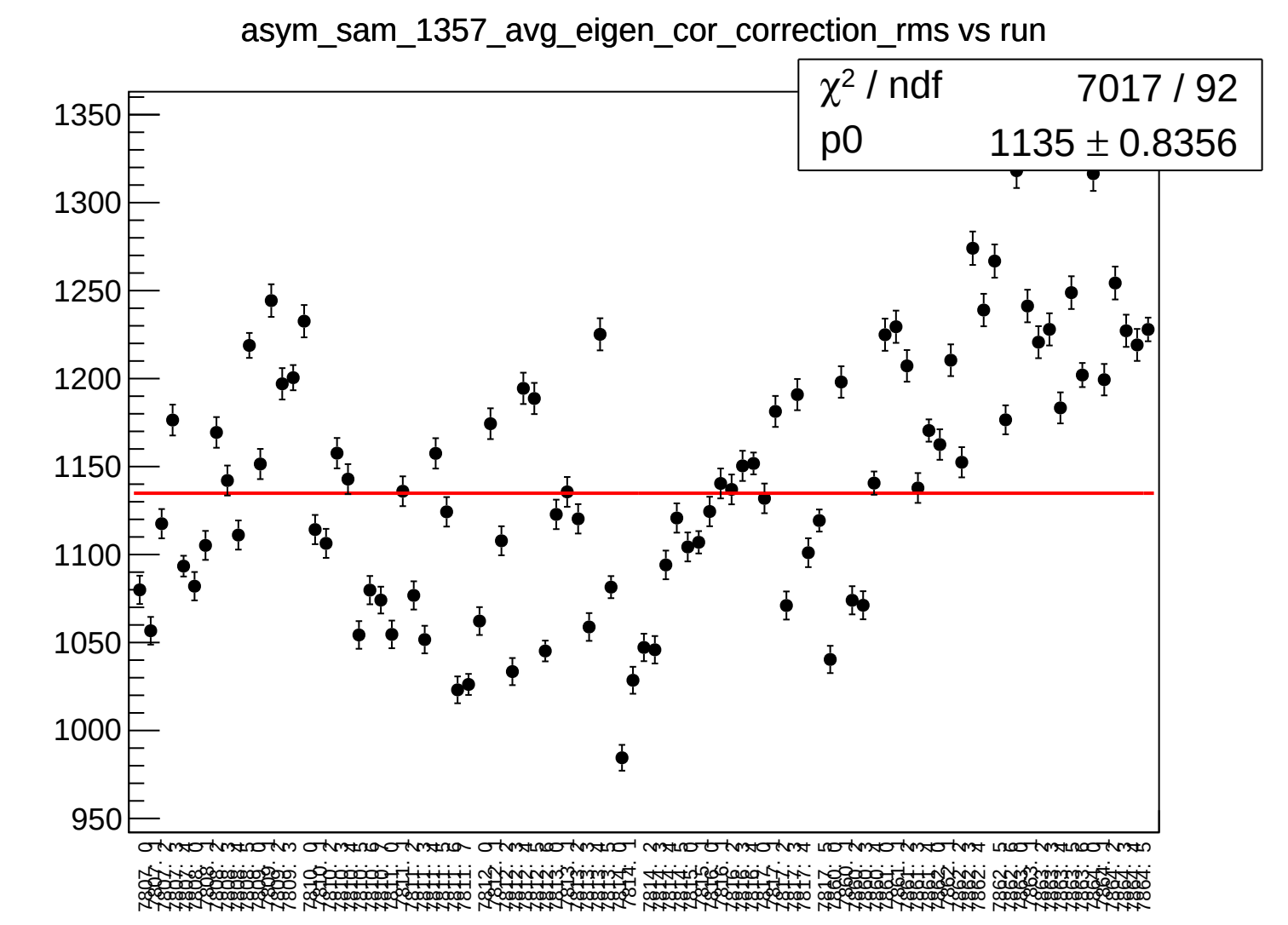
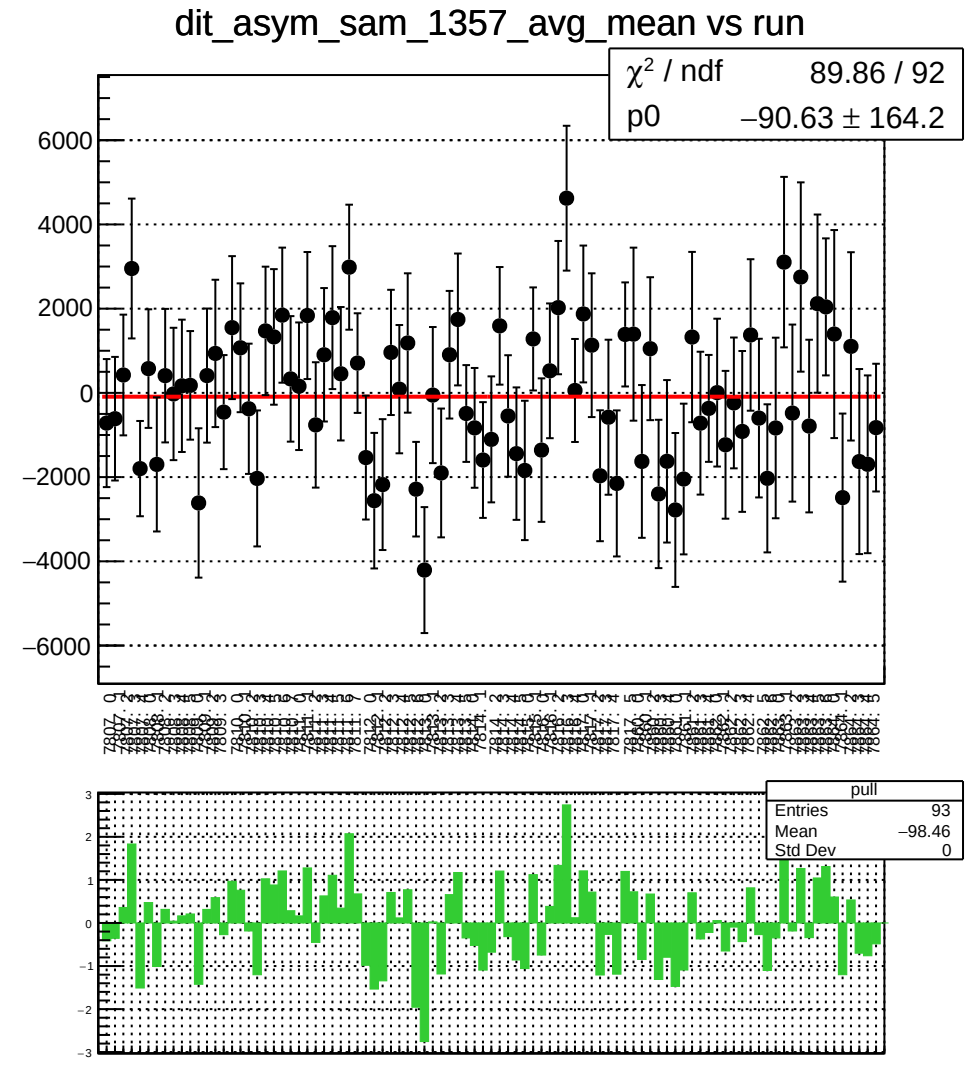
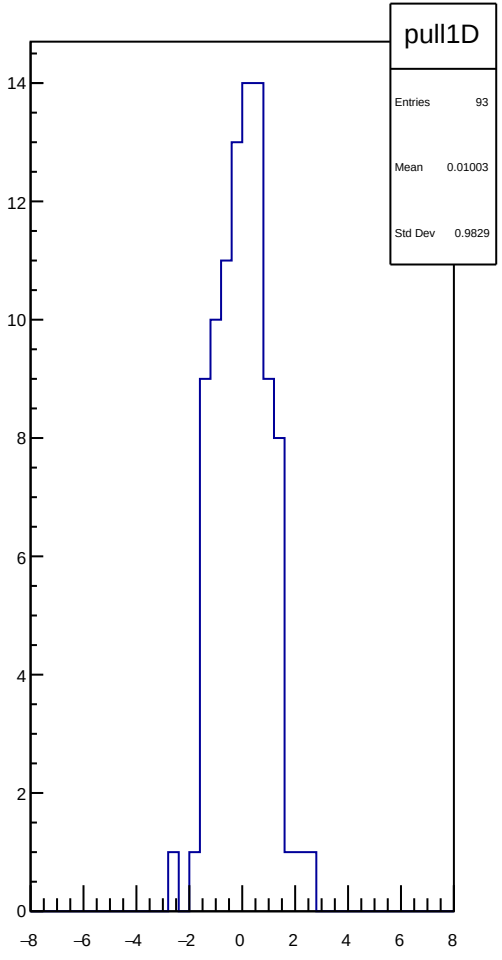
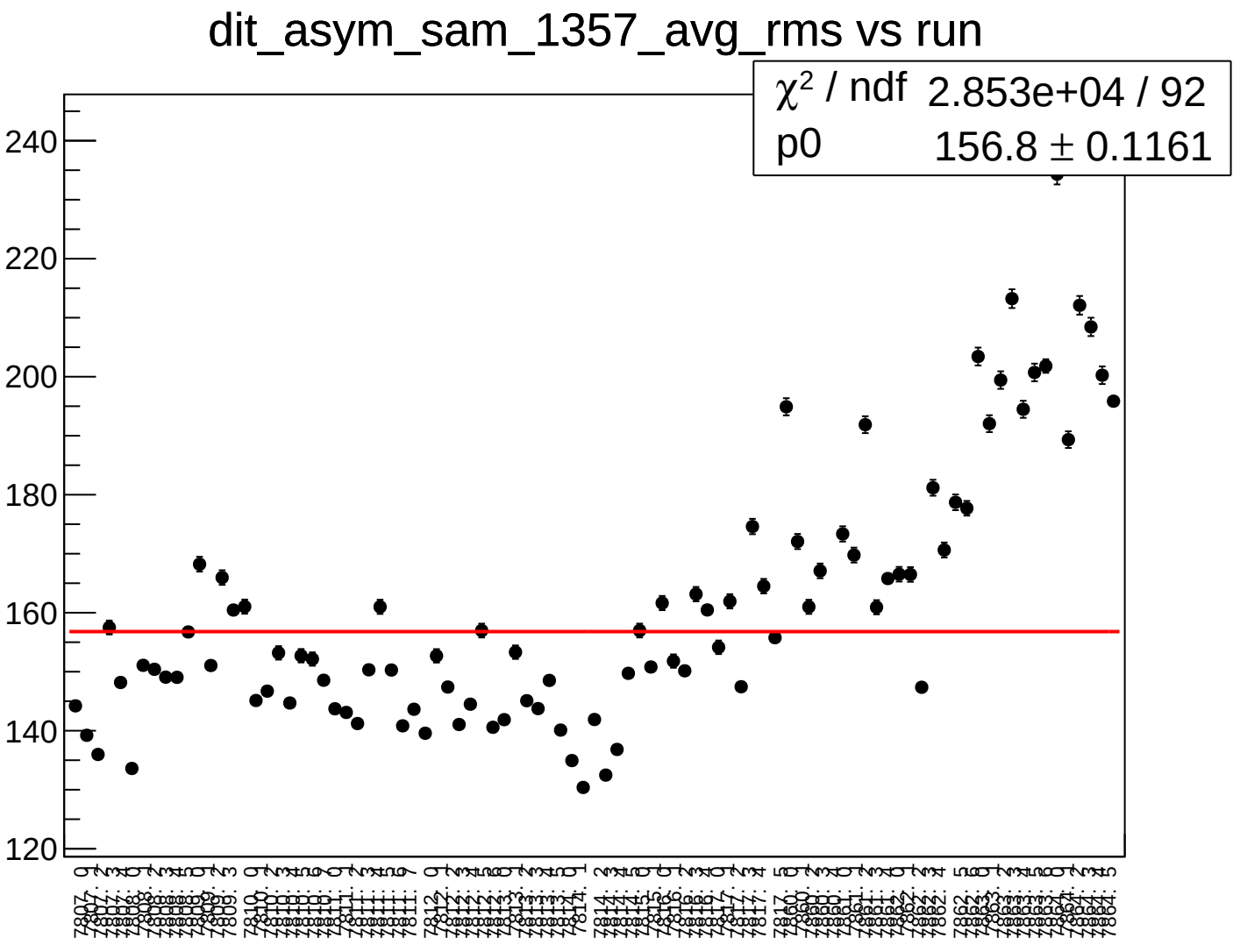
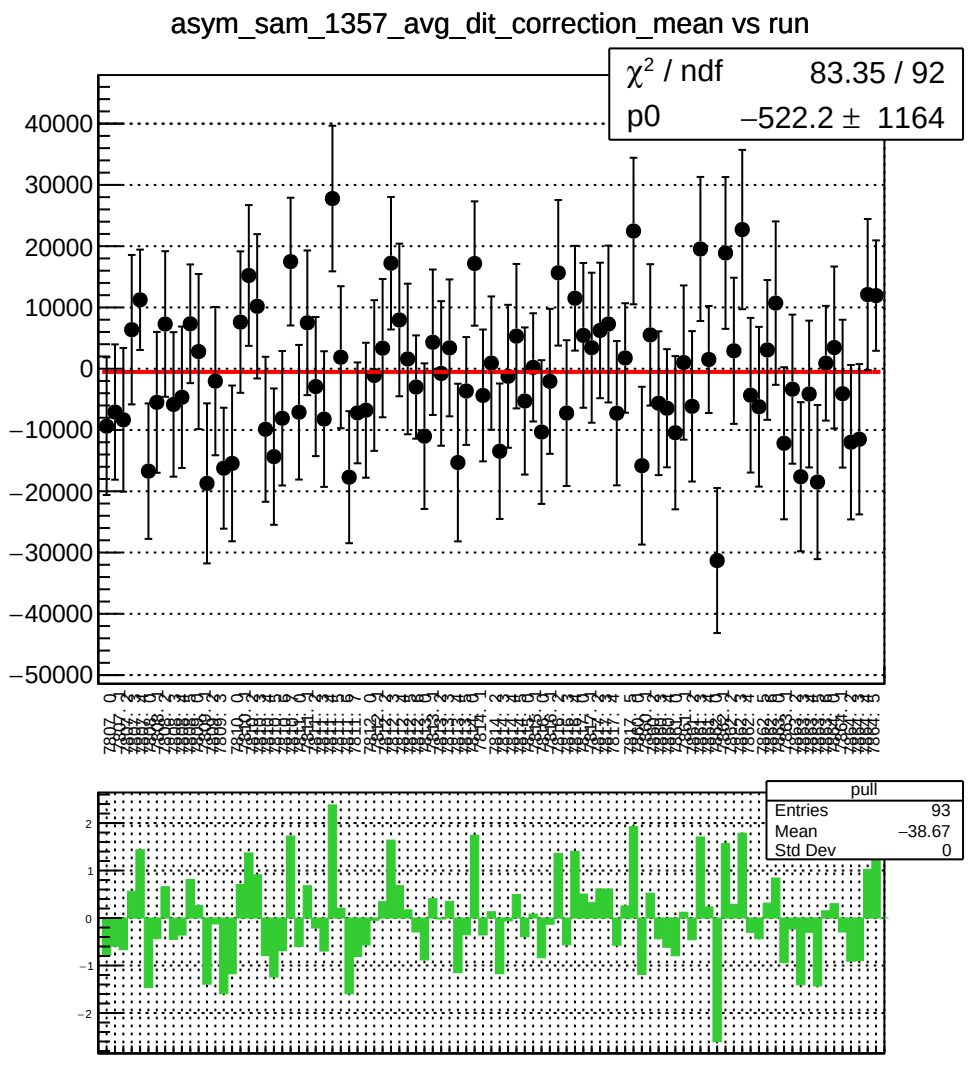
0
2
4
6
8

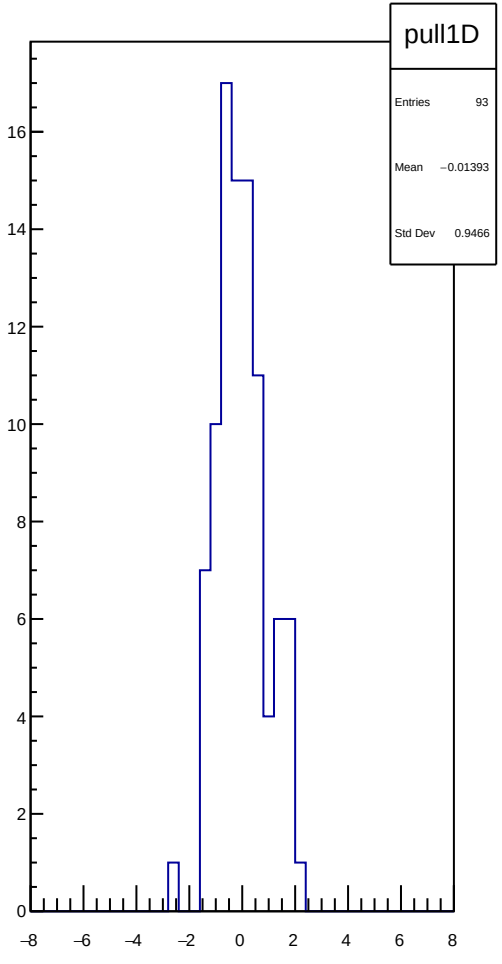

asym_sam_1357_avg_eigen_cor_correction_rms vs run
χ² / ndf 7017 / 92
p0 1135 ± 0.8356
1350
1300
1250
1200
1150
1100
1050
1000
950

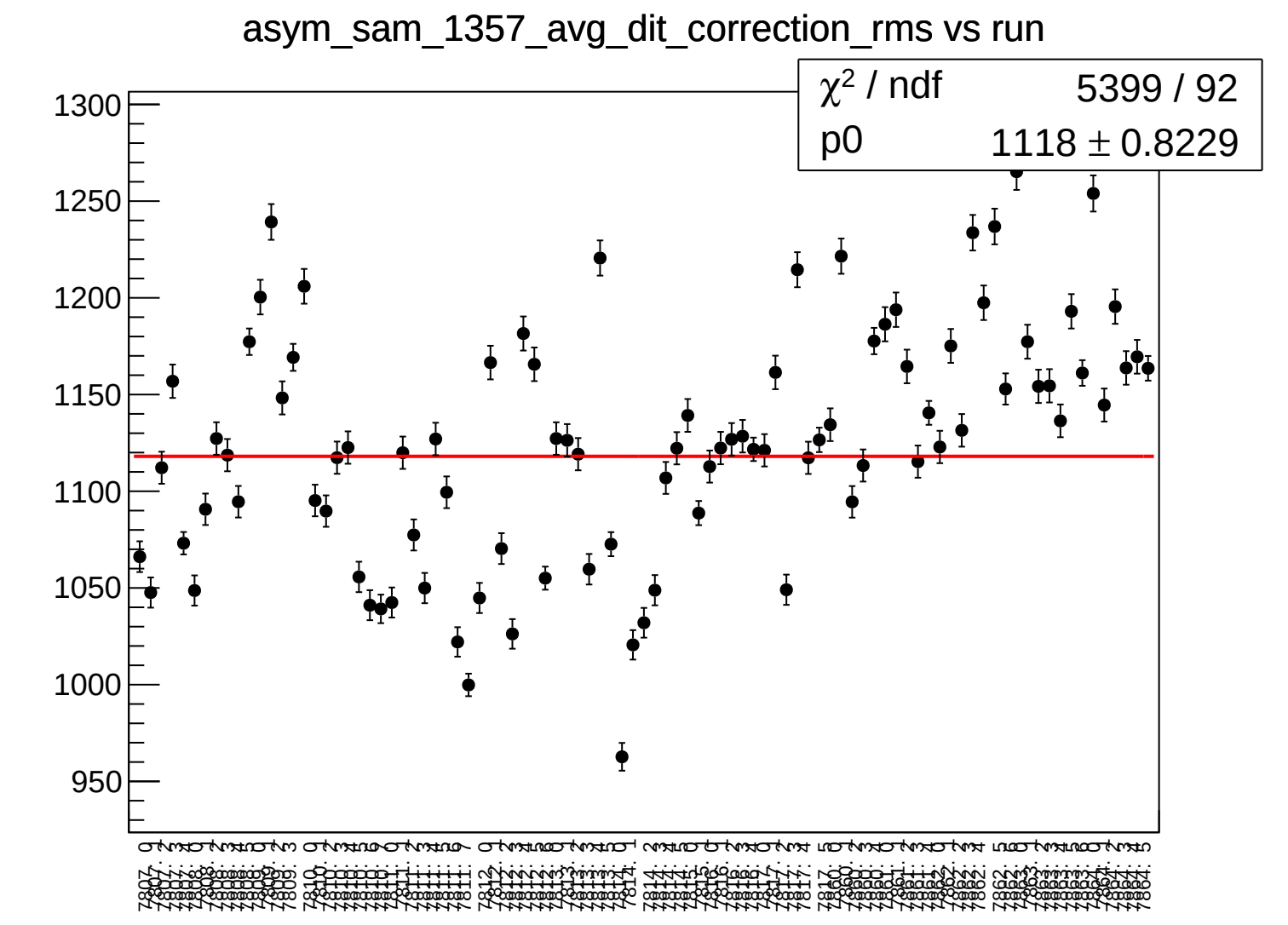

dit_asym_sam_1357_avg_mean vs run
χ² / ndf 89.86 / 92
p0 −90.63 ± 164.2
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean −98.46
Std Dev 0
3
2
1
0
−1
−2
−3

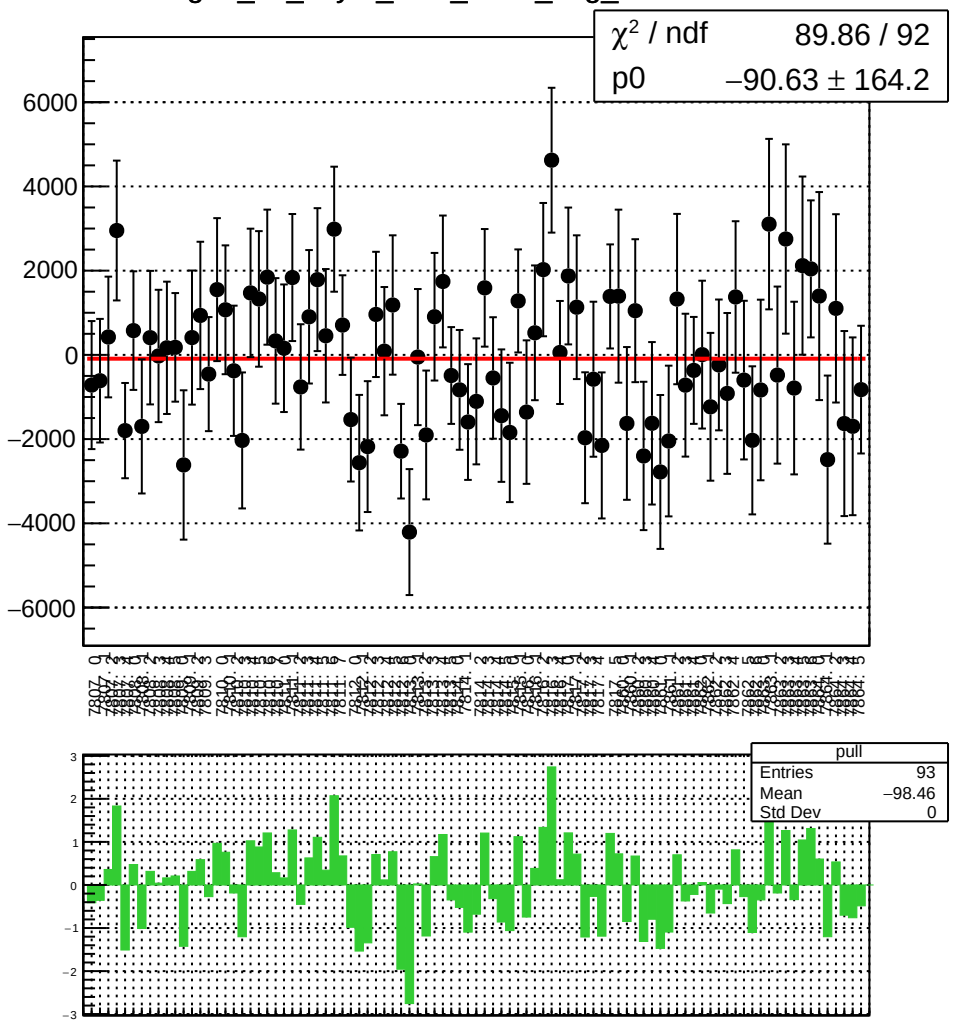

pull1D
Entries 93
Mean 0.01003
Std Dev 0.9829
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

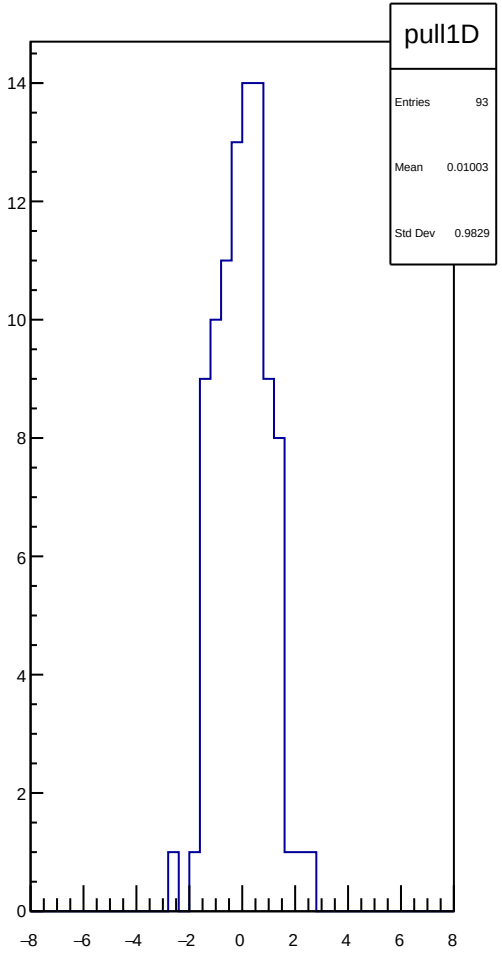

dit_asym_sam_1357_avg_rms vs run
χ² / ndf 2.853e+04 / 92
p0 156.8 ± 0.1161
240
220
200
180
160
140
120

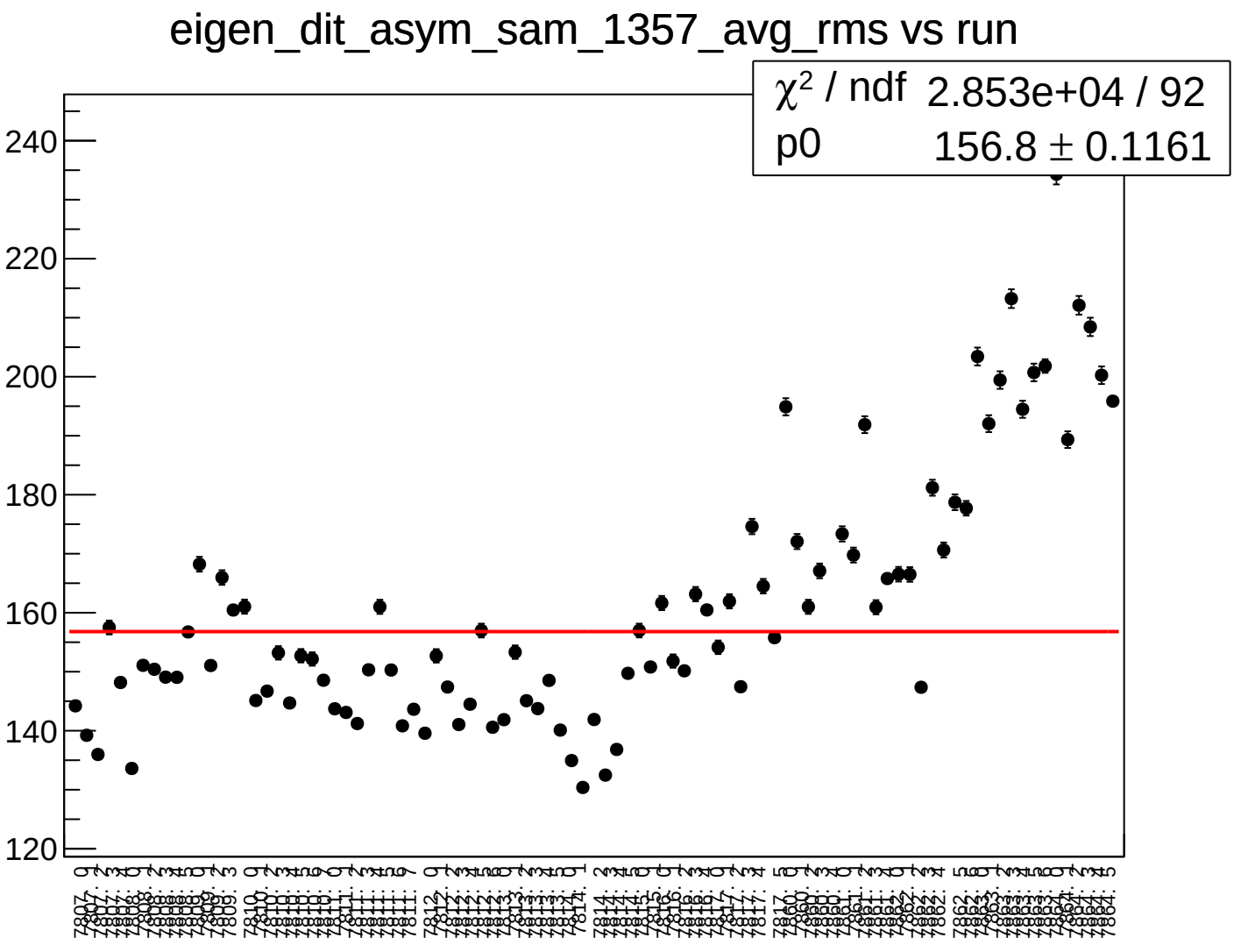

asym_sam_1357_avg_dit_correction_mean vs run
χ² / ndf 83.35 / 92
p0 −522.2 ± 1164
pull
Entries 93
Mean −38.67
Std Dev 0

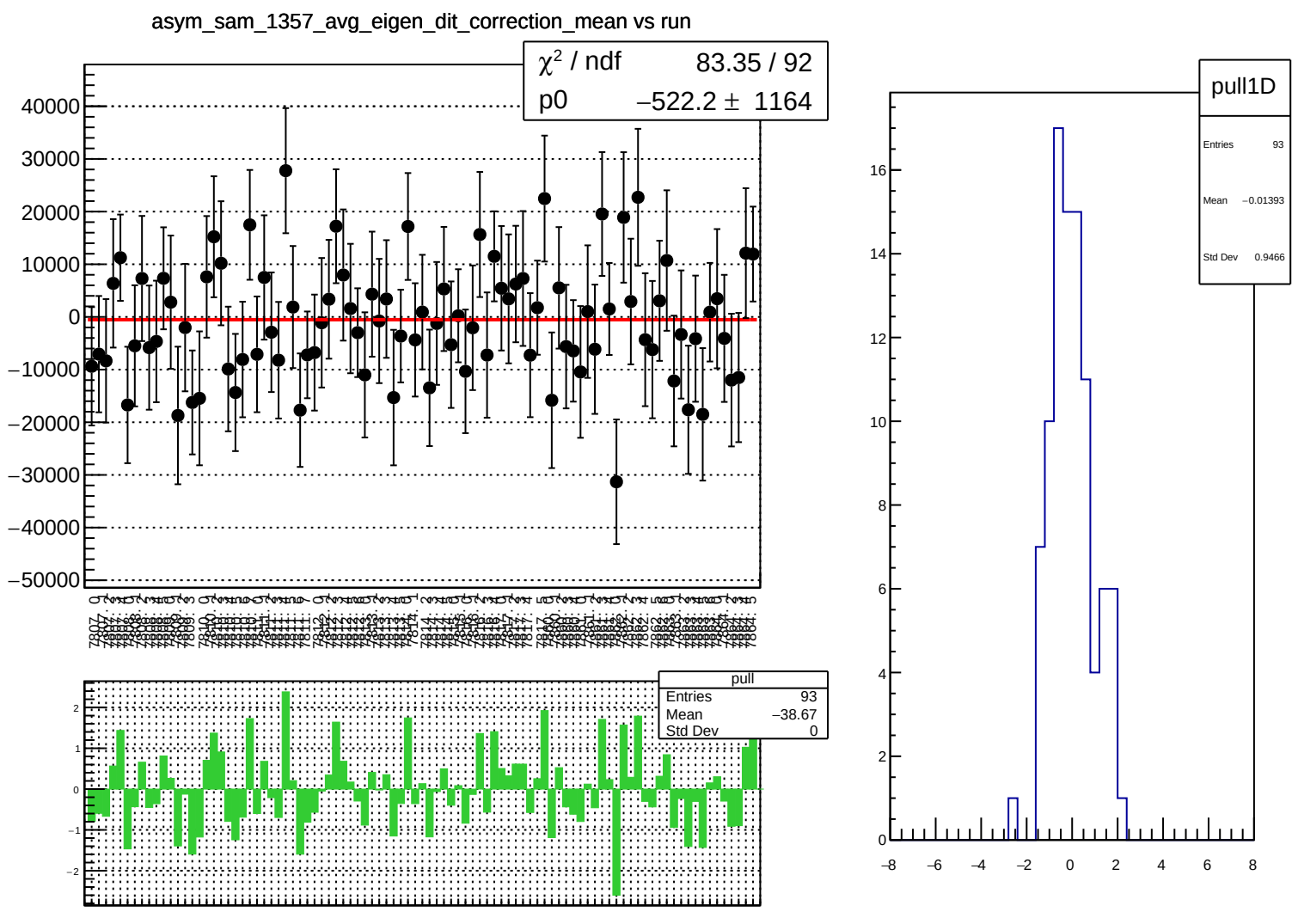

pull1D
Entries 93
Mean −0.01393
Std Dev 0.9466

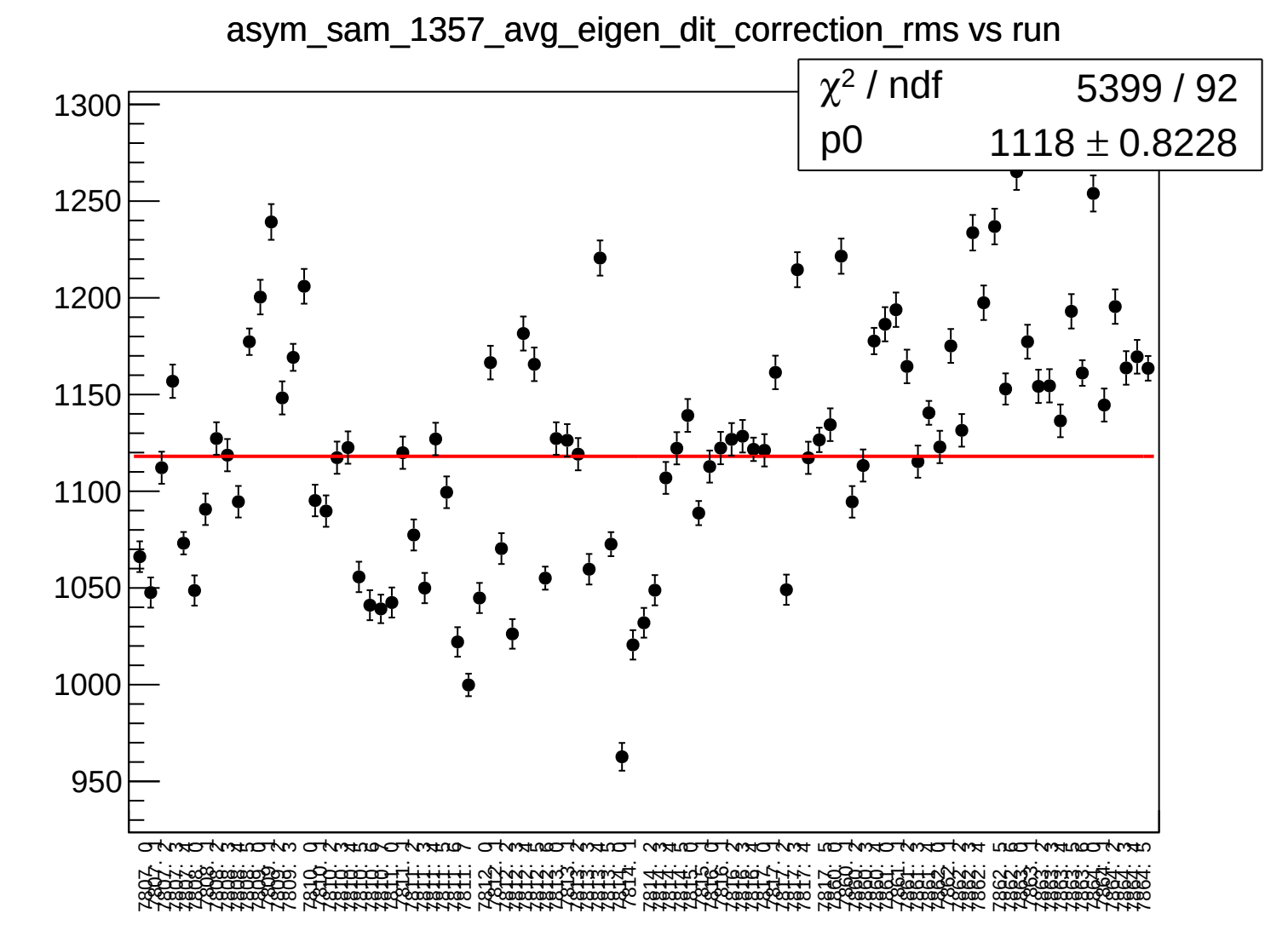

asym_sam_1357_avg_dit_correction_rms vs run
χ² / ndf 5399 / 92
p0 1118 ± 0.8229
1300
1250
1200
1150
1100
1050
1000
950

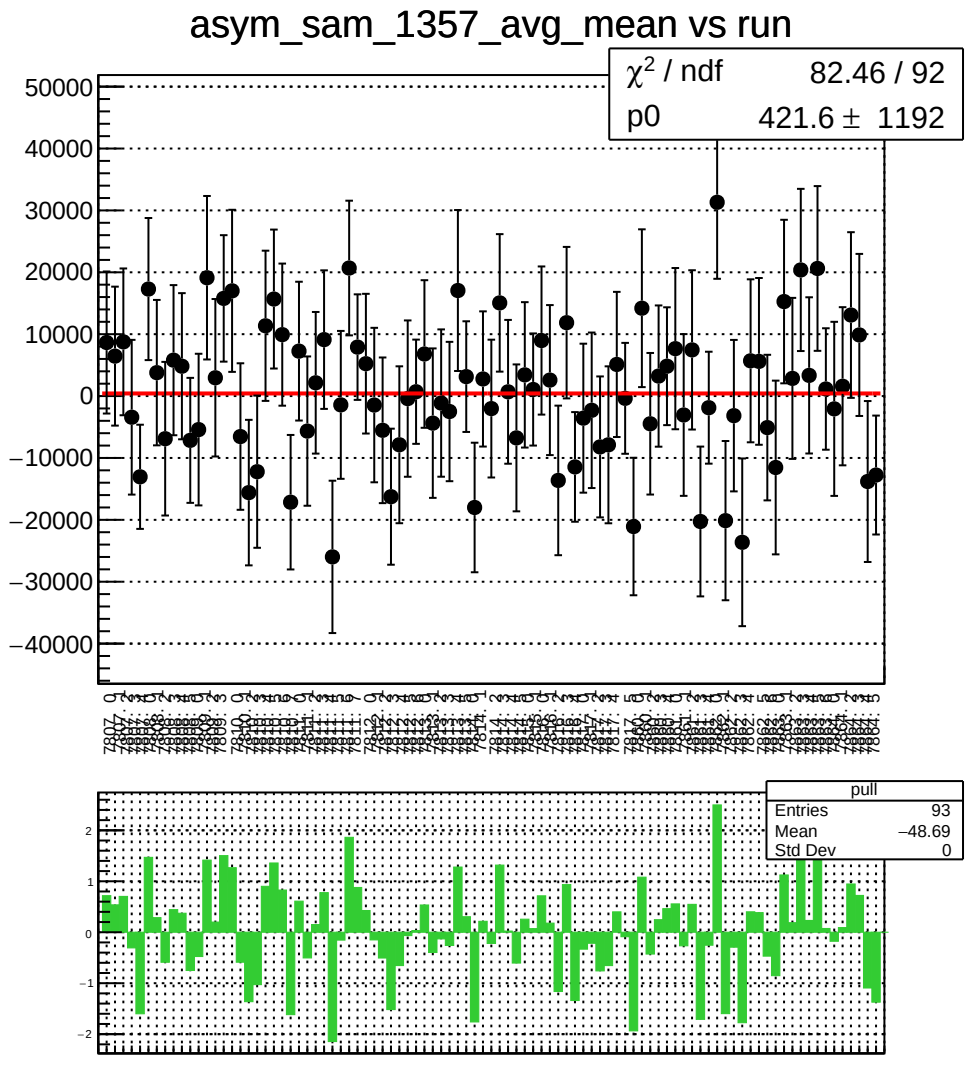

eigen_dit_asym_sam_1357_avg_mean vs run
χ² / ndf 89.86 / 92
p0 −90.63 ± 164.2
pull
Entries 93
Mean −98.46
Std Dev 0

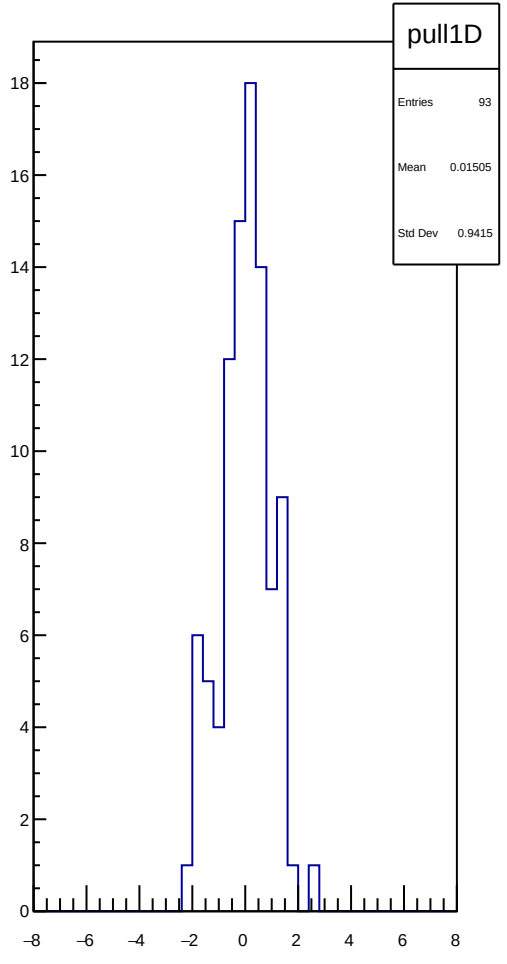

pull1D
Entries 93
Mean 0.01003
Std Dev 0.9829

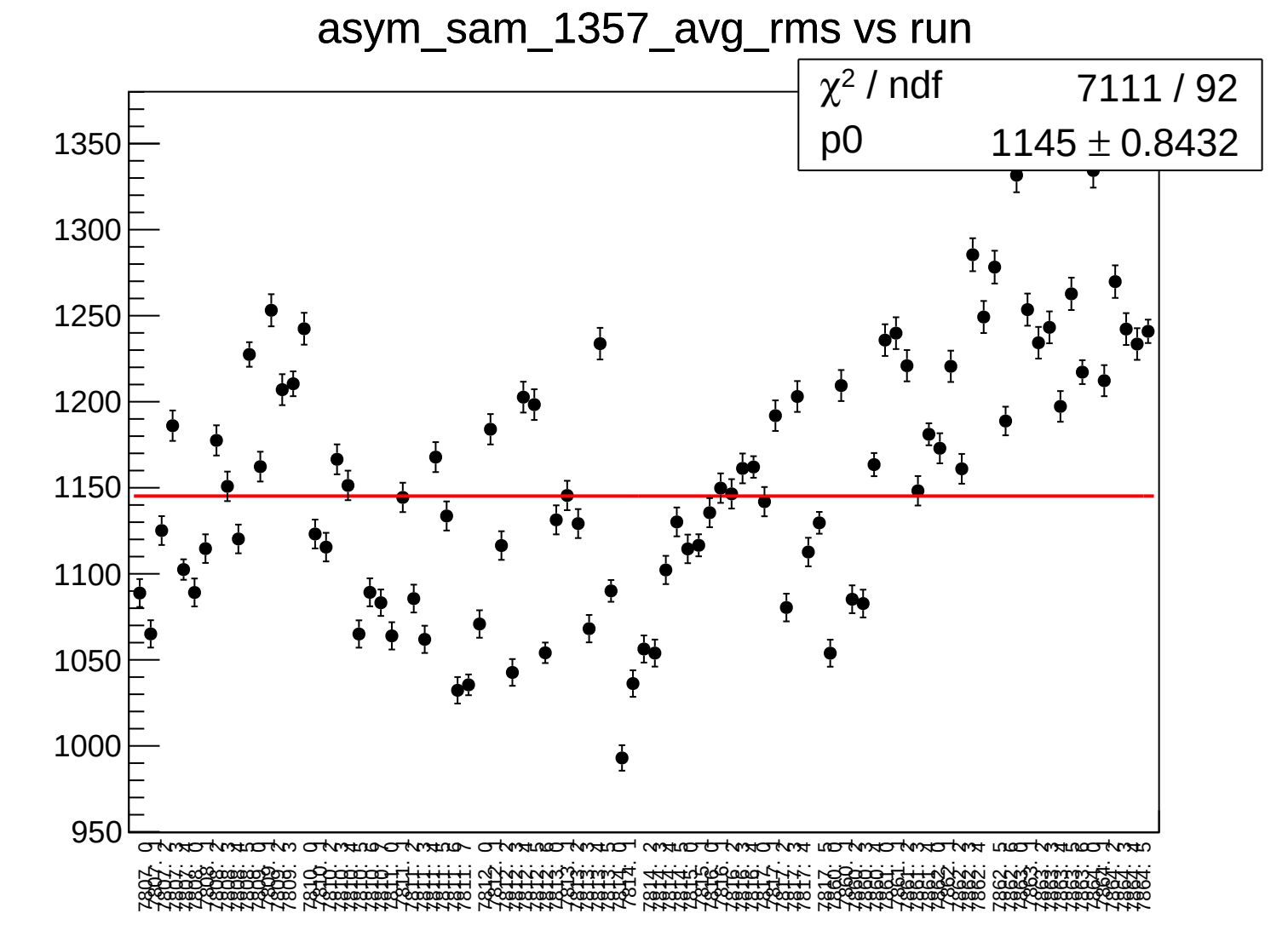

eigen_dit_asym_sam_1357_avg_rms vs run
χ² / ndf 2.853e+04 / 92
p0 156.8 ± 0.1161
240
220
200
180
160
140
120

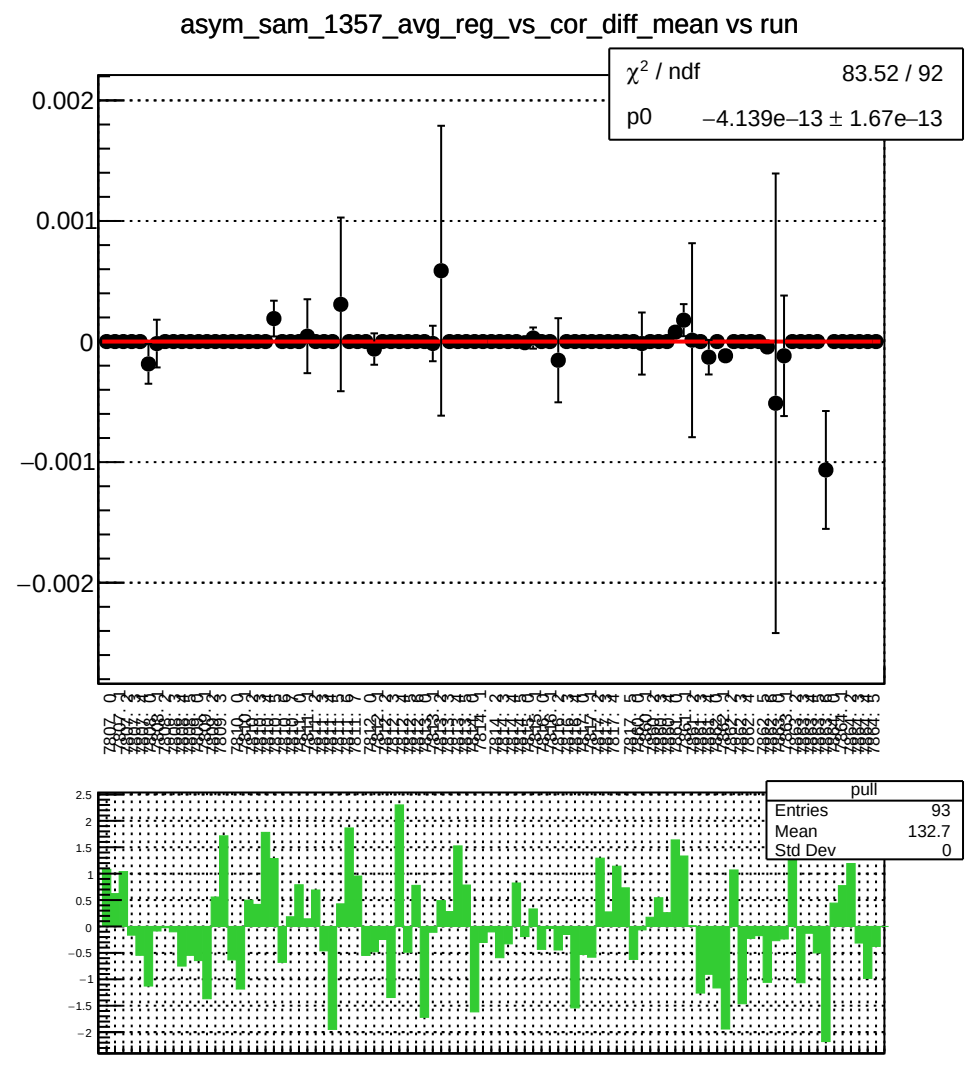

asym_sam_1357_avg_eigen_dit_correction_mean vs run
χ² / ndf 83.35 / 92
p0 −522.2 ± 1164
pull
Entries 93
Mean −38.67
Std Dev 0
pull1D
Entries 93
Mean −0.01393
Std Dev 0.9466

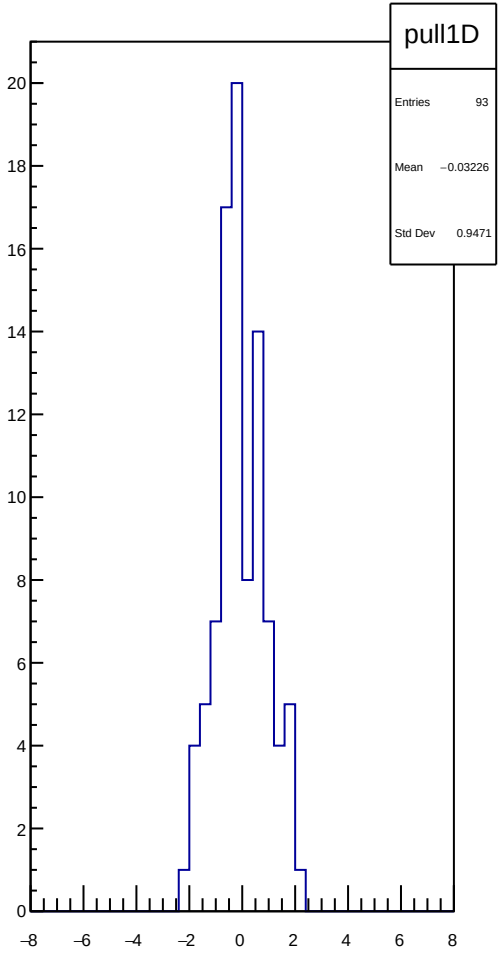

asym_sam_1357_avg_eigen_dit_correction_rms vs run
χ² / ndf 5399 / 92
p0 1118 ± 0.8228
1300
1250
1200
1150
1100
1050
1000
950

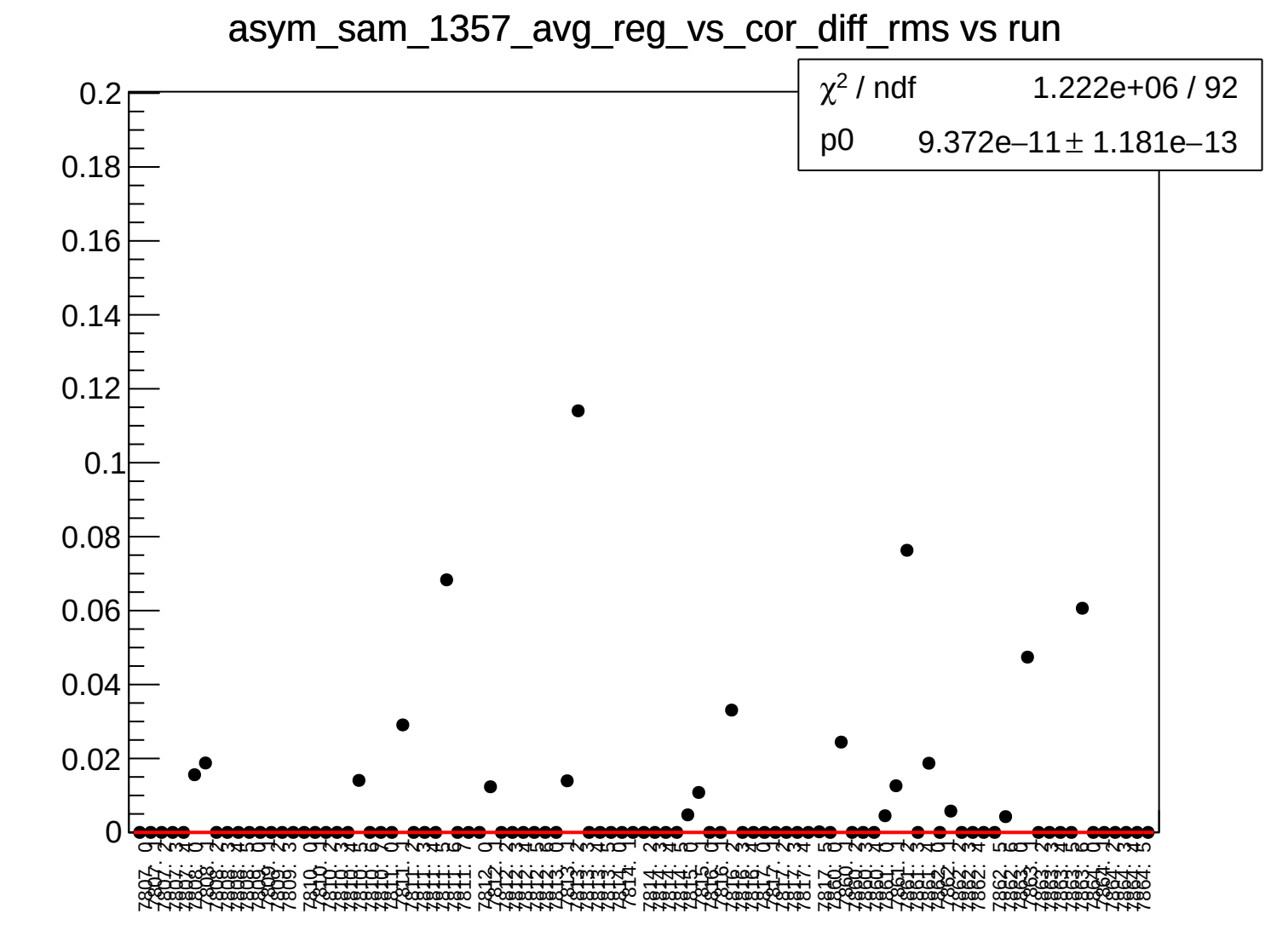

asym_sam_1357_avg_mean vs run
χ² / ndf 82.46 / 92
p0 421.6 ± 1192
pull
Entries 93
Mean −48.69
Std Dev 0

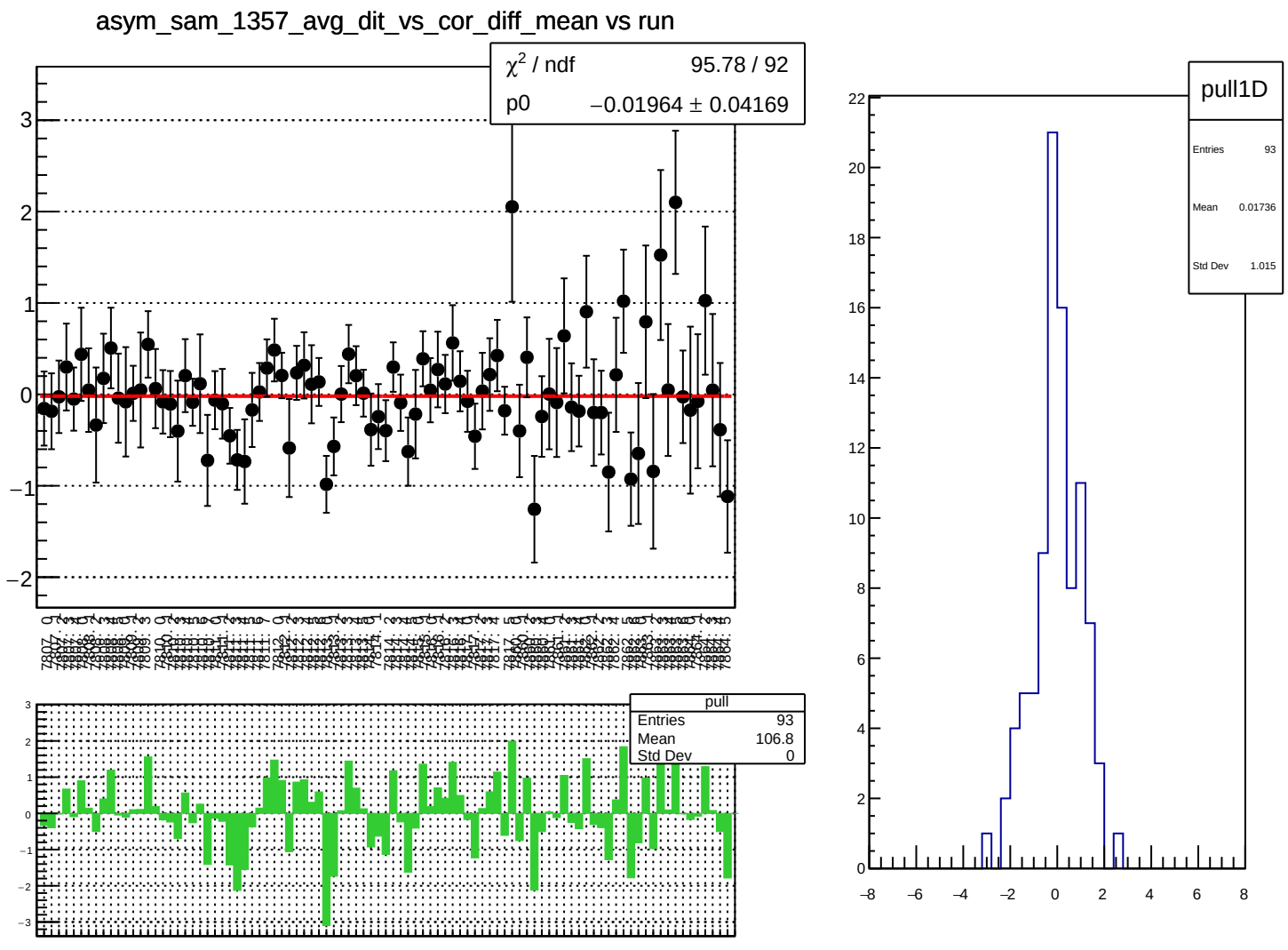

pull1D
Entries 93
Mean 0.01505
Std Dev 0.9415

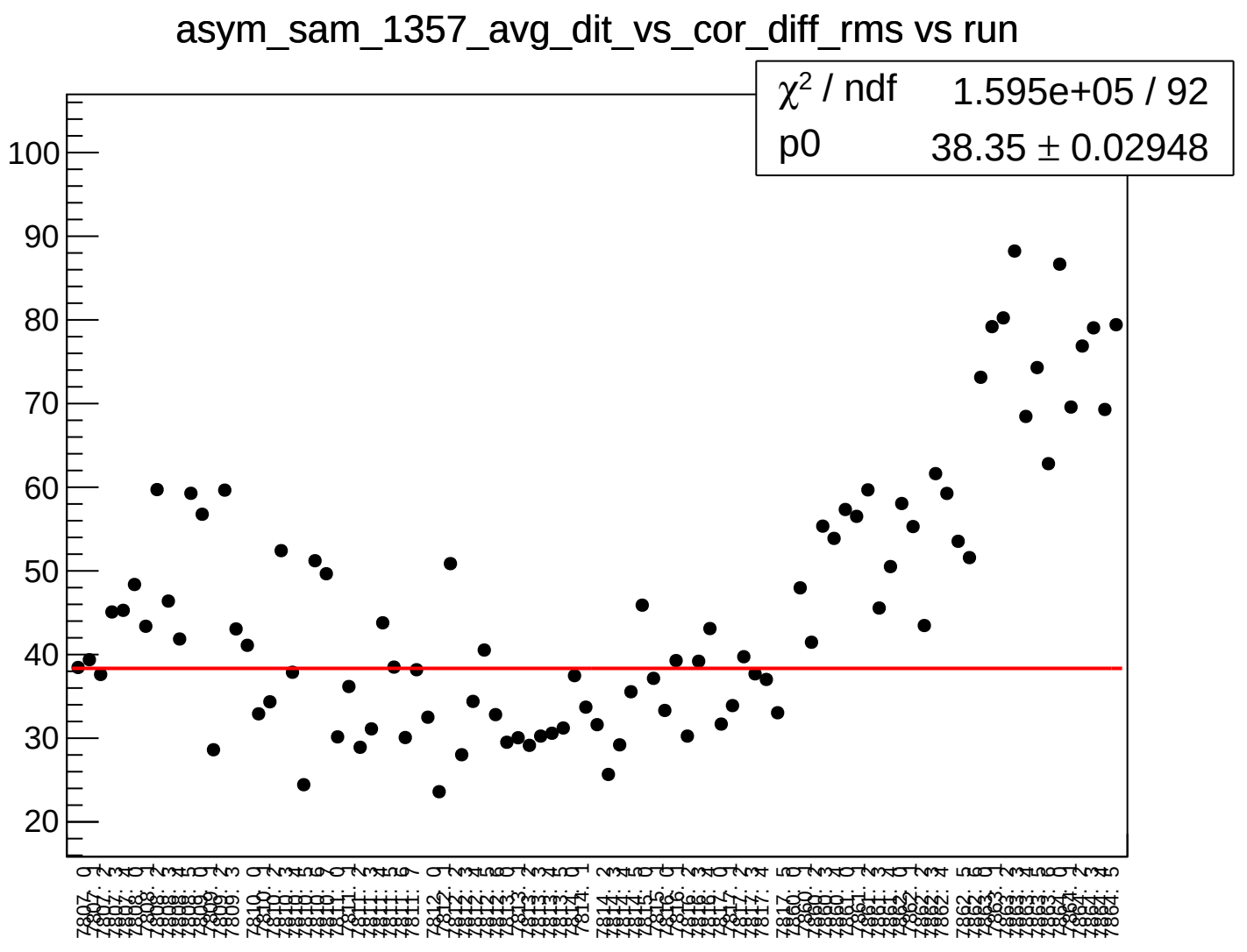

asym_sam_1357_avg_rms vs run
χ² / ndf 7111 / 92
p0 1145 ± 0.8432
1350
1300
1250
1200
1150
1100
1050
1000
950

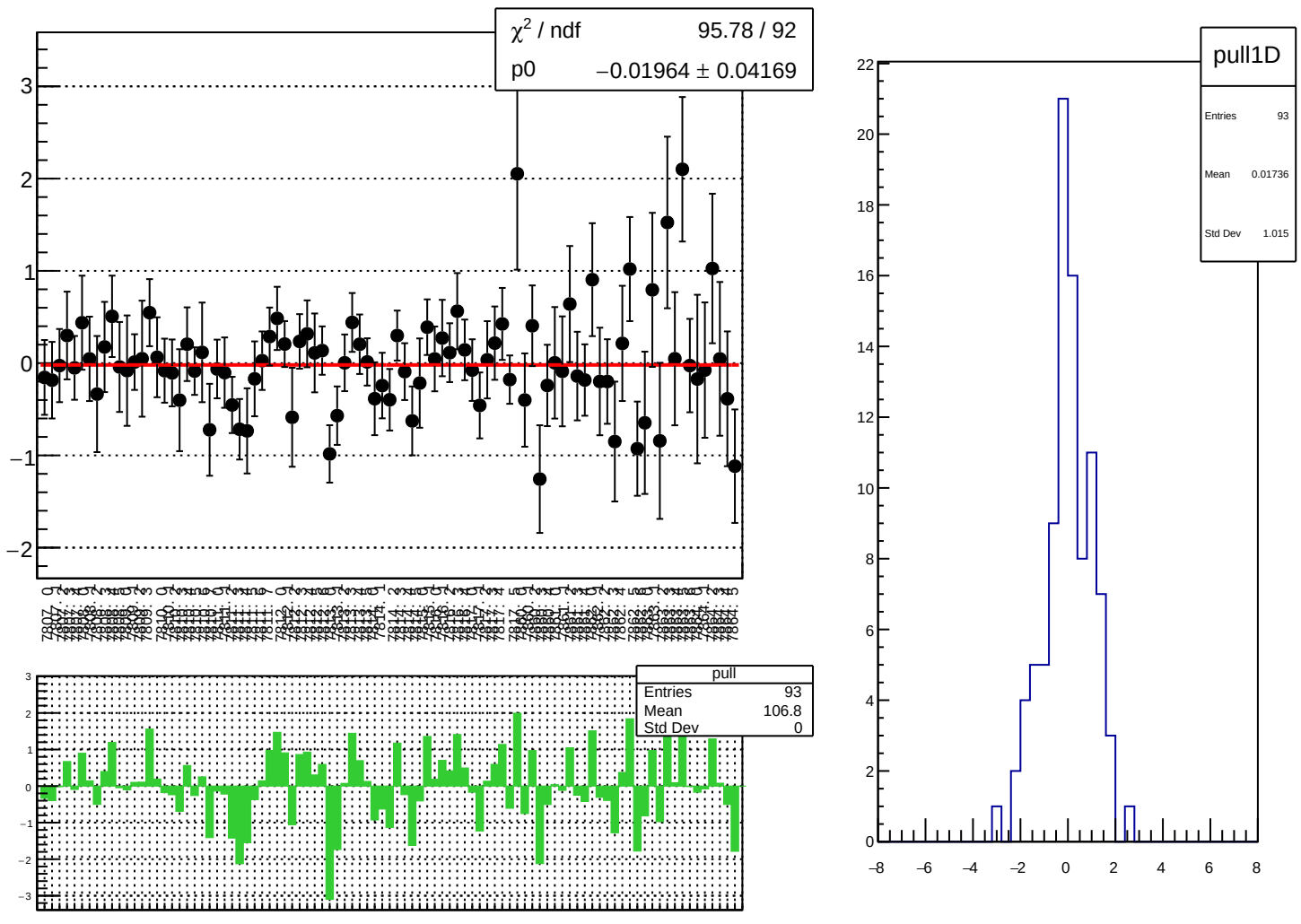

asym_sam_1357_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 83.52 / 92
p0 −4.139e−13 ± 1.67e−13
0.002
0.001
0
−0.001
−0.002
pull
Entries 93
Mean 132.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

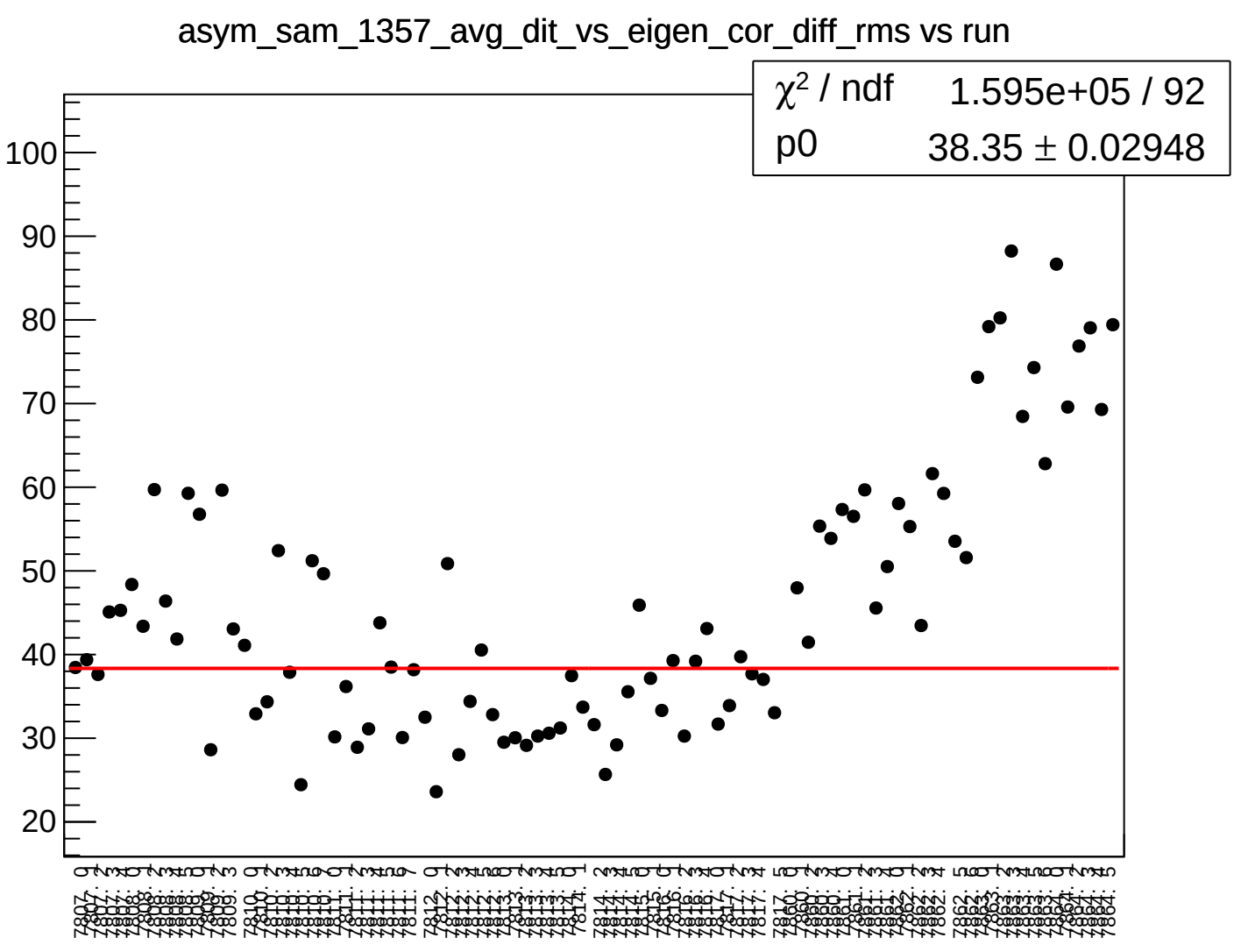

pull1D
Entries 93
Mean −0.03226
Std Dev 0.9471
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

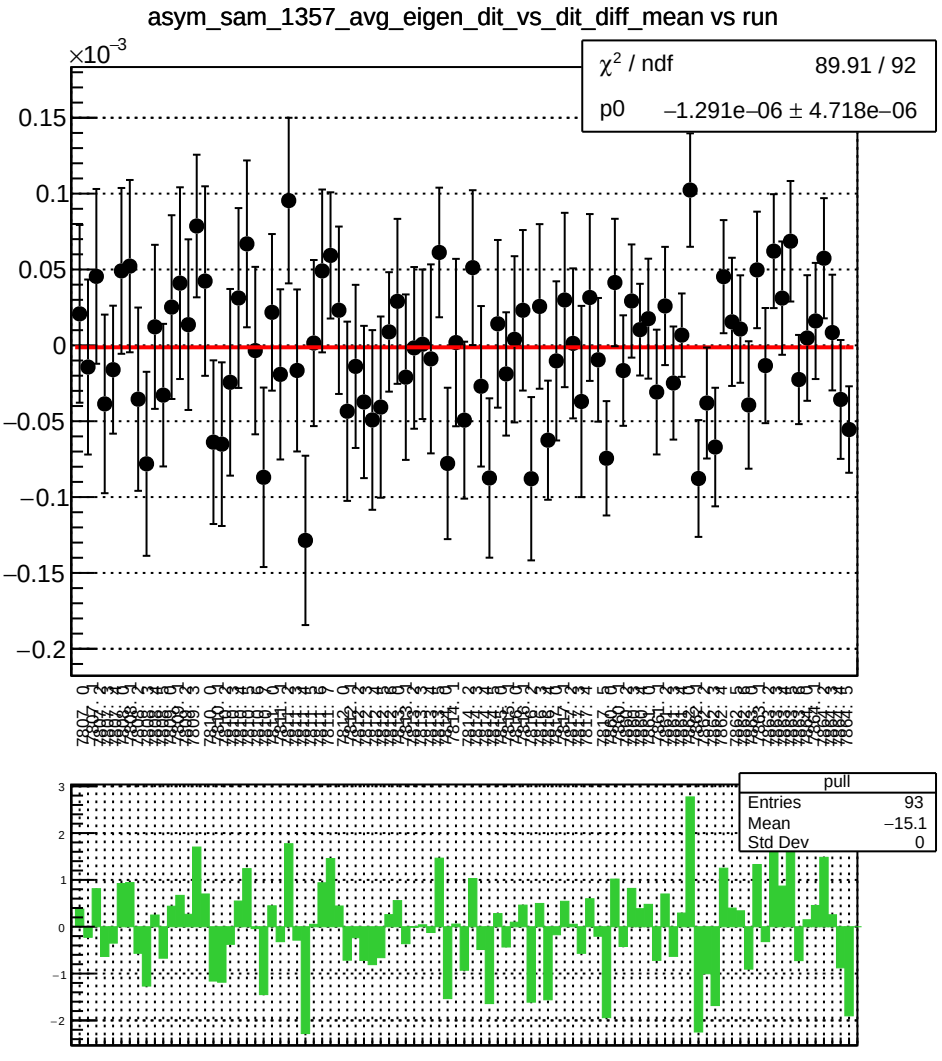

asym_sam_1357_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.222e+06 / 92
p0 9.372e−11 ± 1.181e−13
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

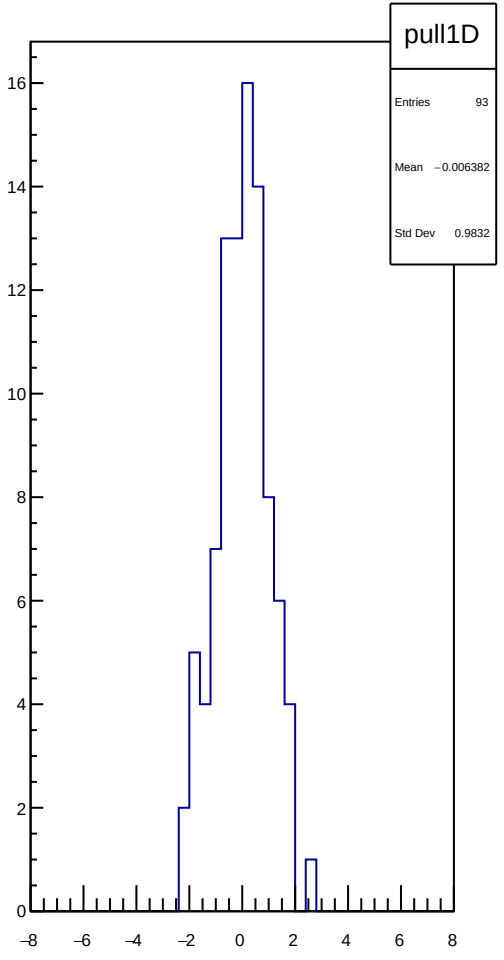

asym_sam_1357_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 95.78 / 92
p0 −0.01964 ± 0.04169
pull
Entries 93
Mean 106.8
Std Dev 0
pull1D
Entries 93
Mean 0.01736
Std Dev 1.015

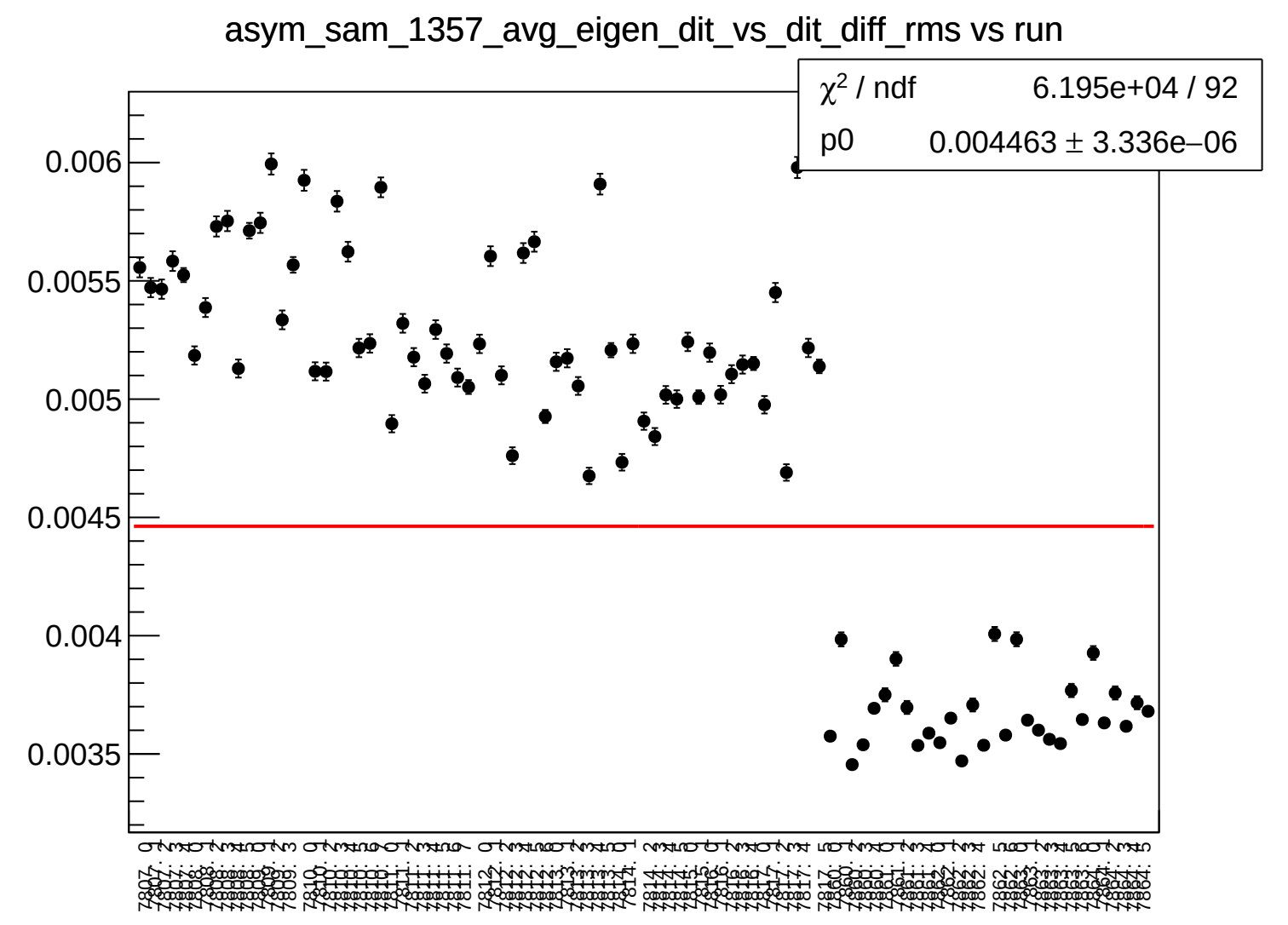

asym_sam_1357_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.595e+05 / 92
p0 38.35 ± 0.02948
100
90
80
70
60
50
40
30
20

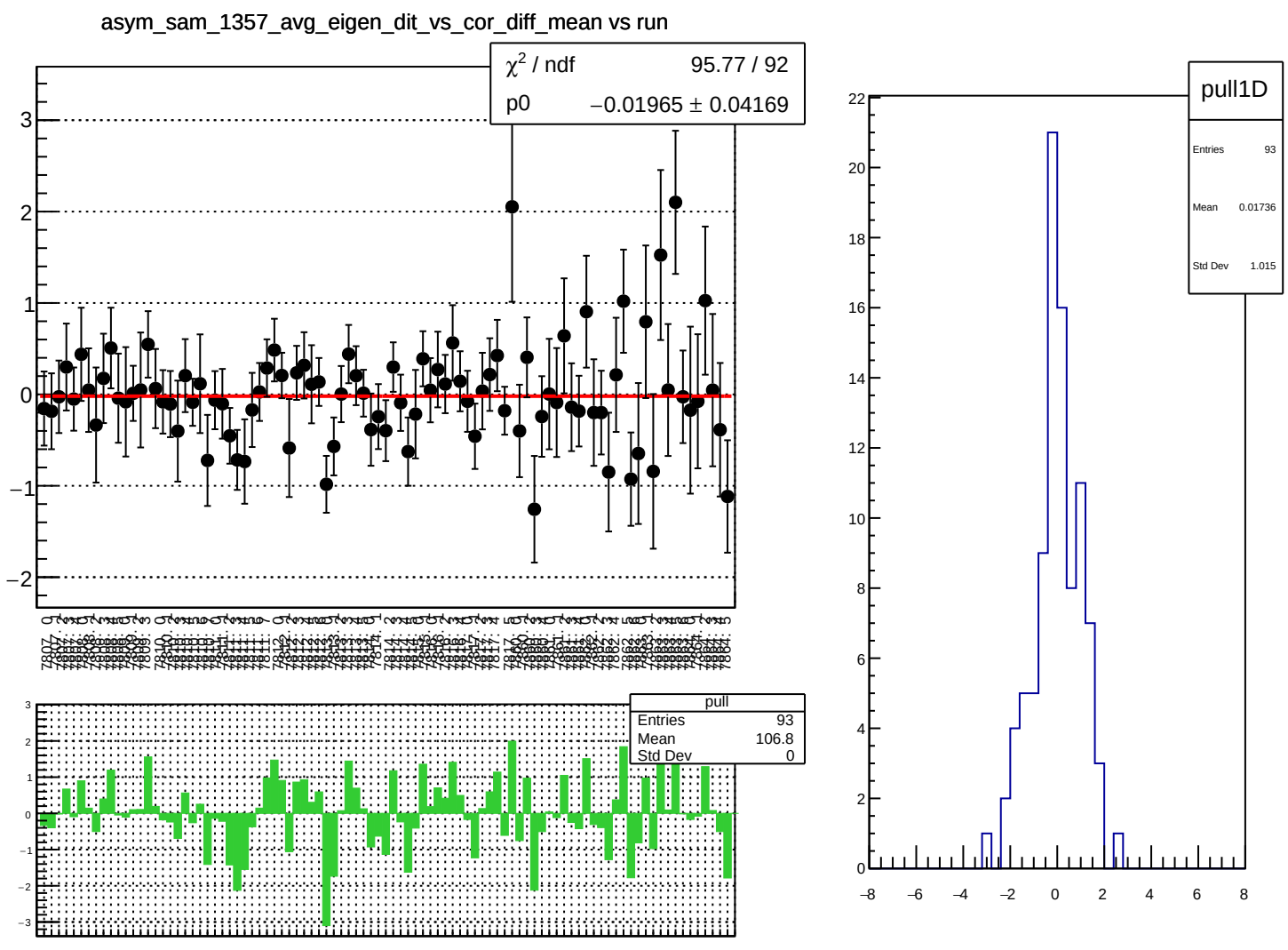

asym_sam_1357_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.78 / 92
p0 −0.01964 ± 0.04169
pull
Entries 93
Mean 106.8
Std Dev 0
pull1D
Entries 93
Mean 0.01736
Std Dev 1.015

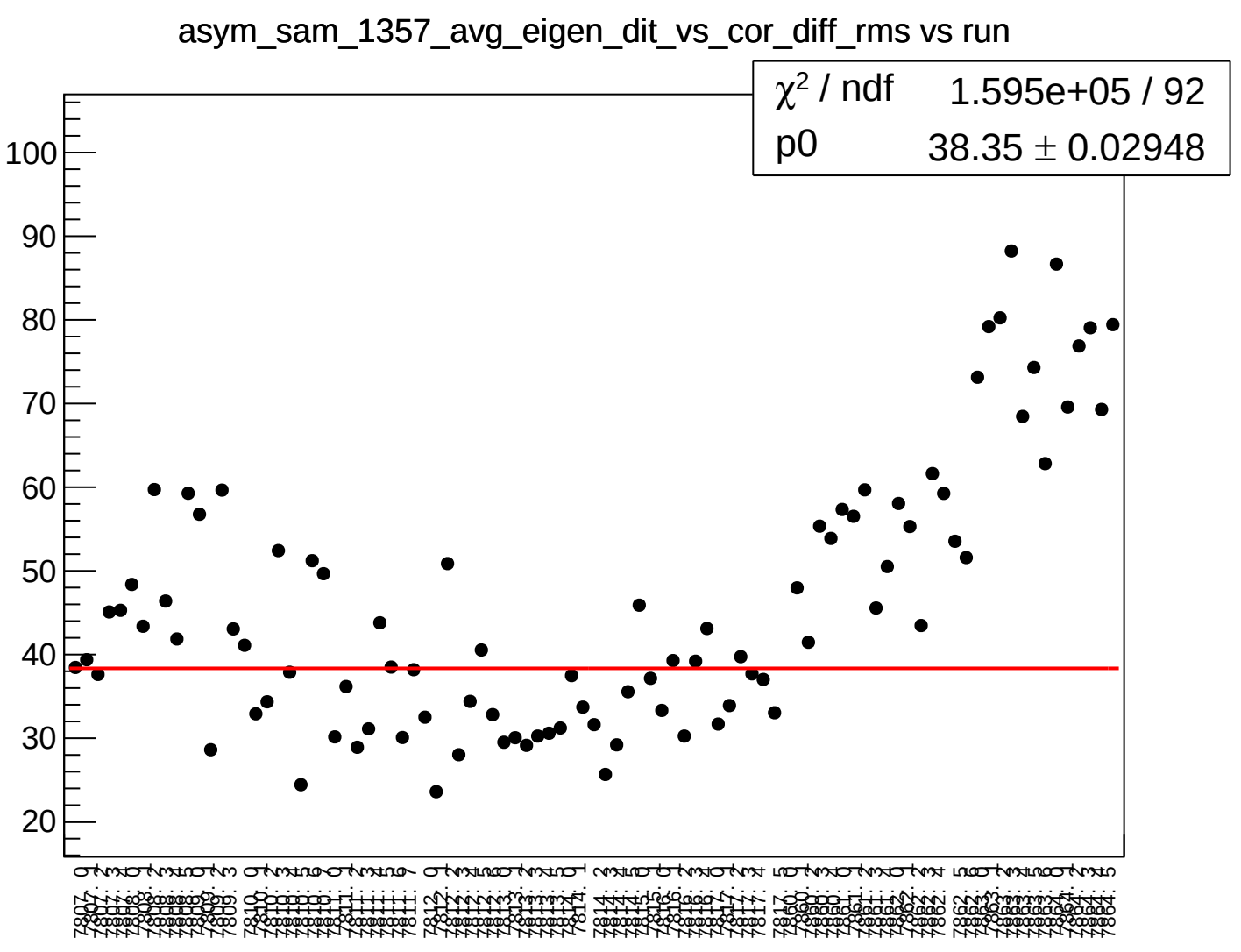

asym_sam_1357_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.595e+05 / 92
p0 38.35 ± 0.02948
100
90
80
70
60
50
40
30
20

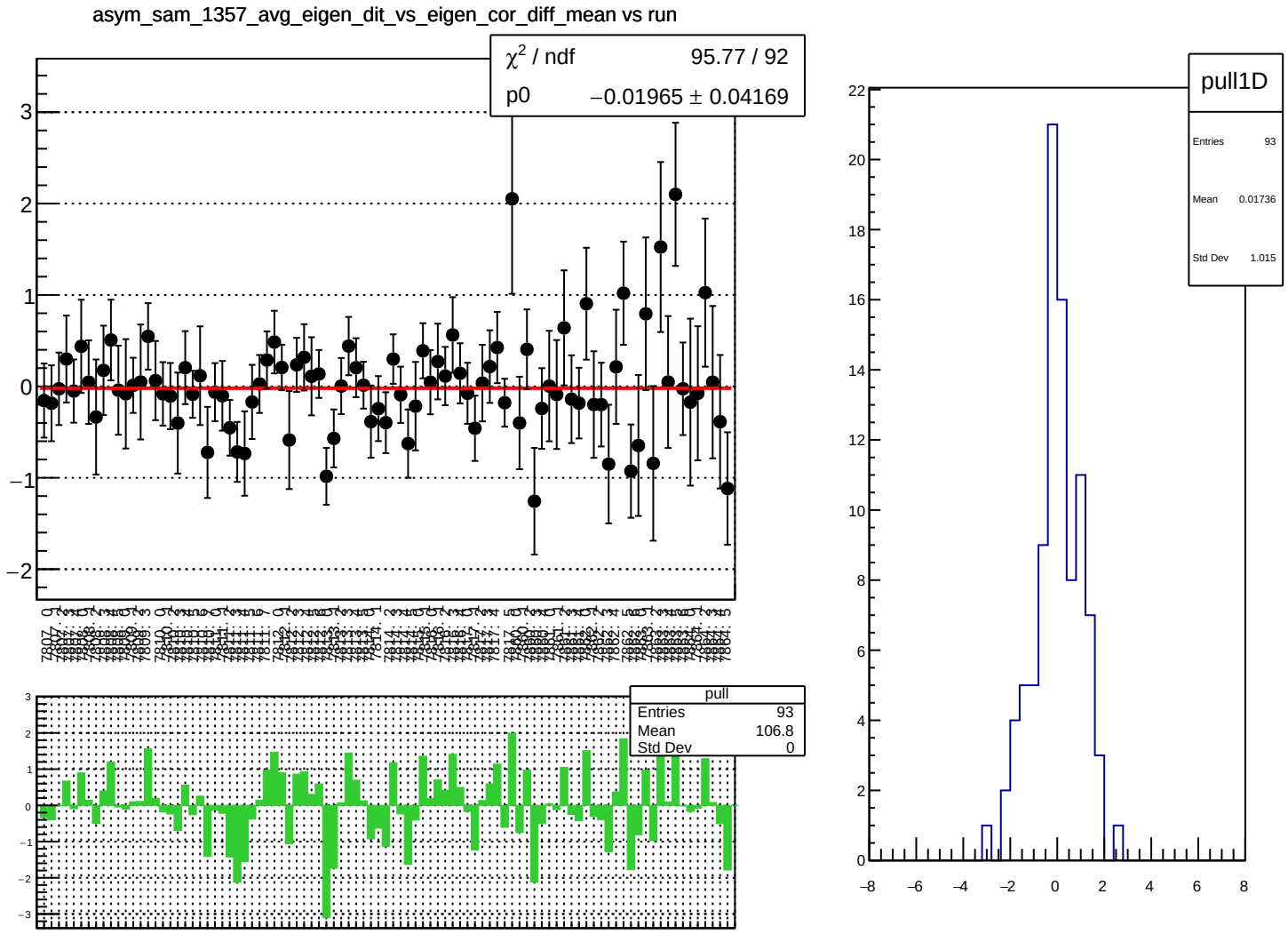

asym_sam_1357_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.91 / 92
p0 −1.291e−06 ± 4.718e−06
pull
Entries 93
Mean −15.1
Std Dev 0

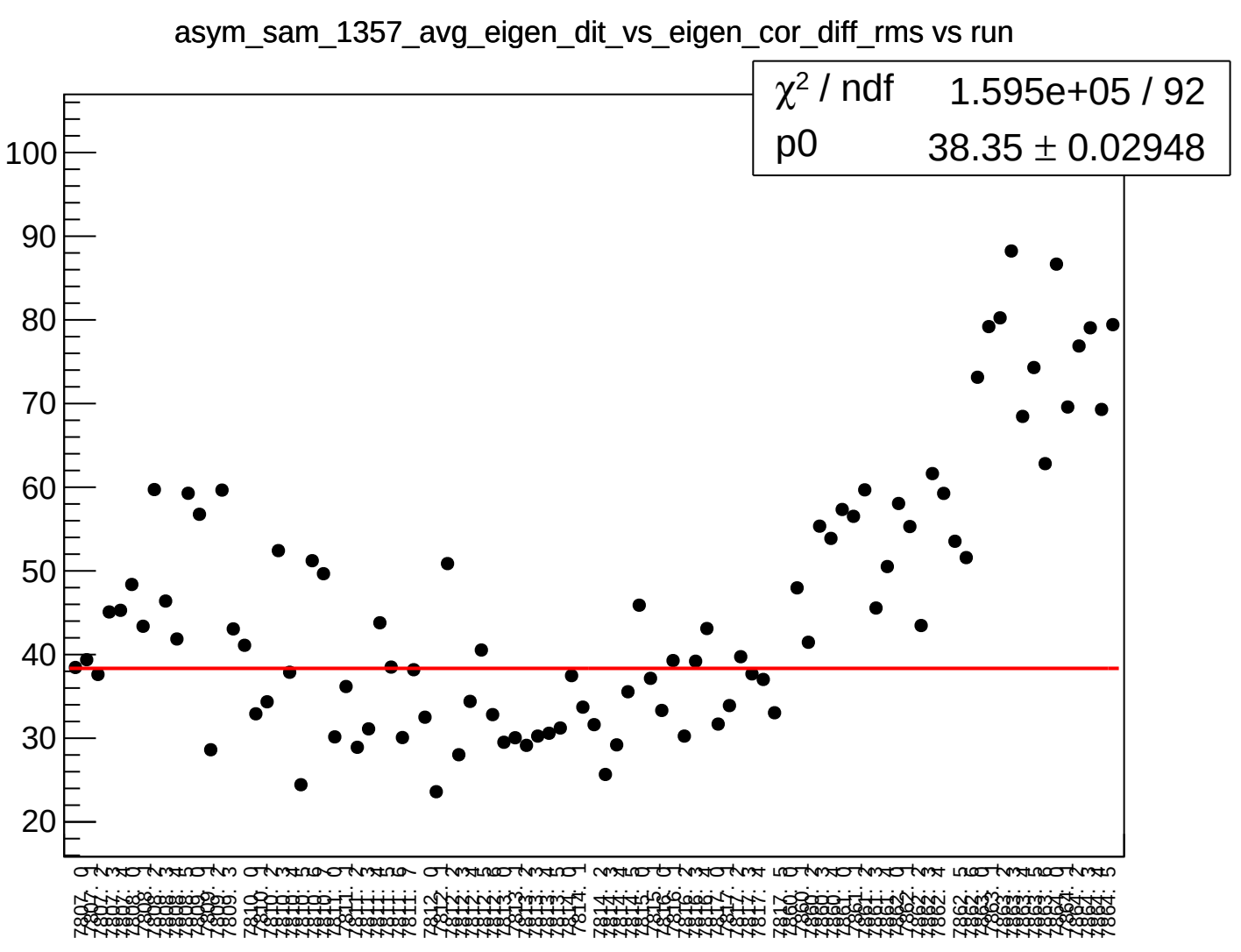

pull1D
Entries 93
Mean −0.006382
Std Dev 0.9832

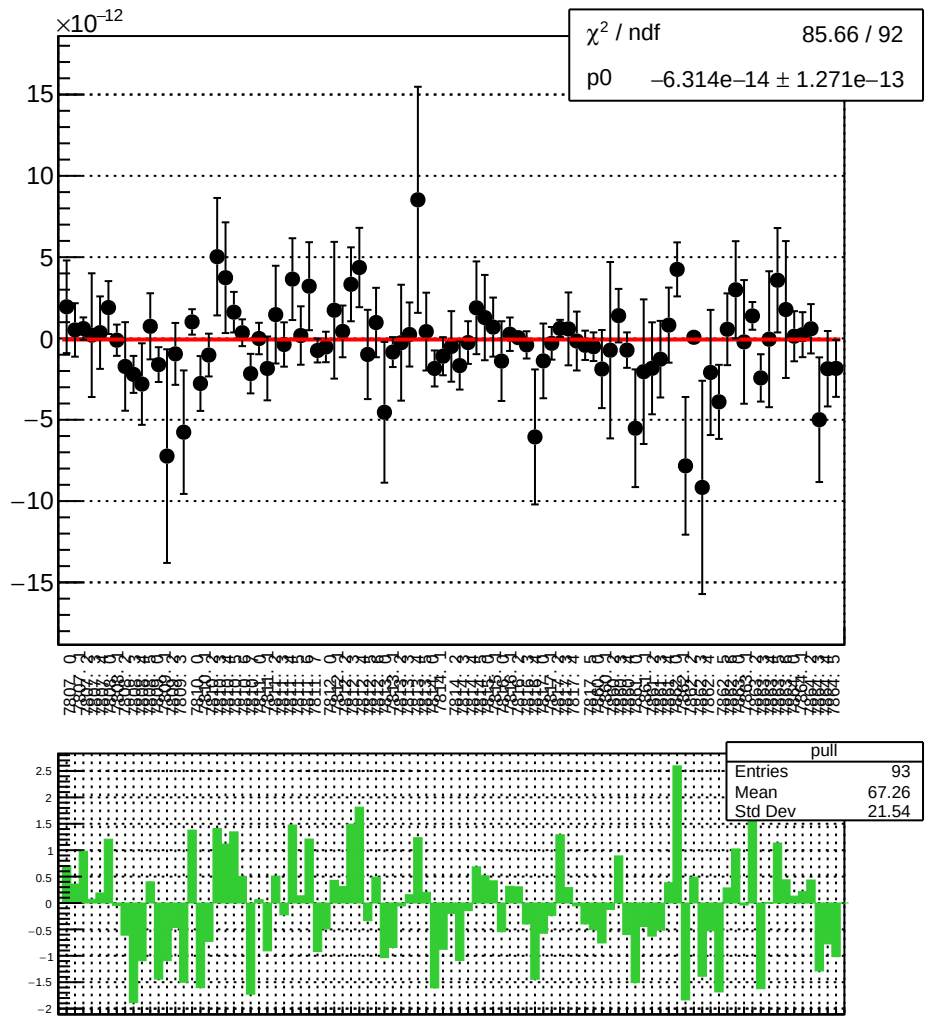

asym_sam_1357_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.195e+04 / 92
p0 0.004463 ± 3.336e−06
0.006
0.0055
0.005
0.0045
0.004
0.0035

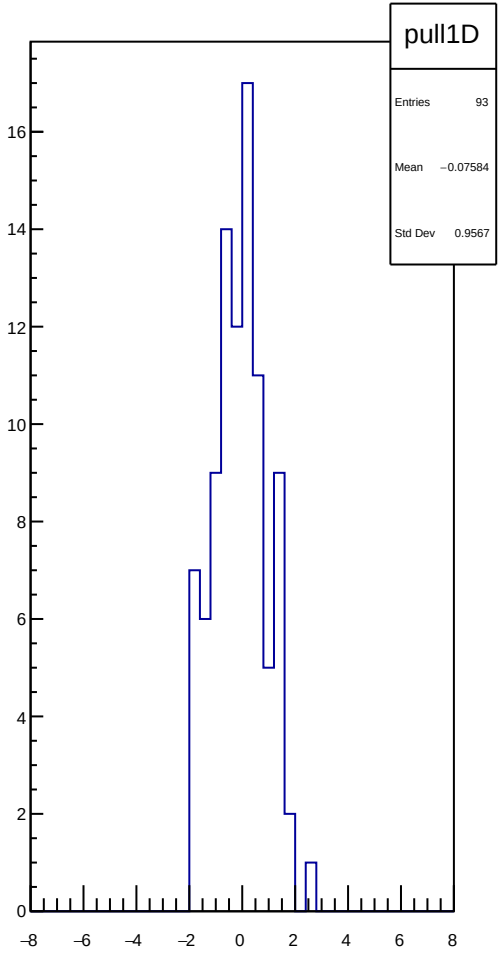

asym_sam_1357_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.77 / 92
p0 −0.01965 ± 0.04169
pull
Entries 93
Mean 106.8
Std Dev 0
pull1D
Entries 93
Mean 0.01736
Std Dev 1.015

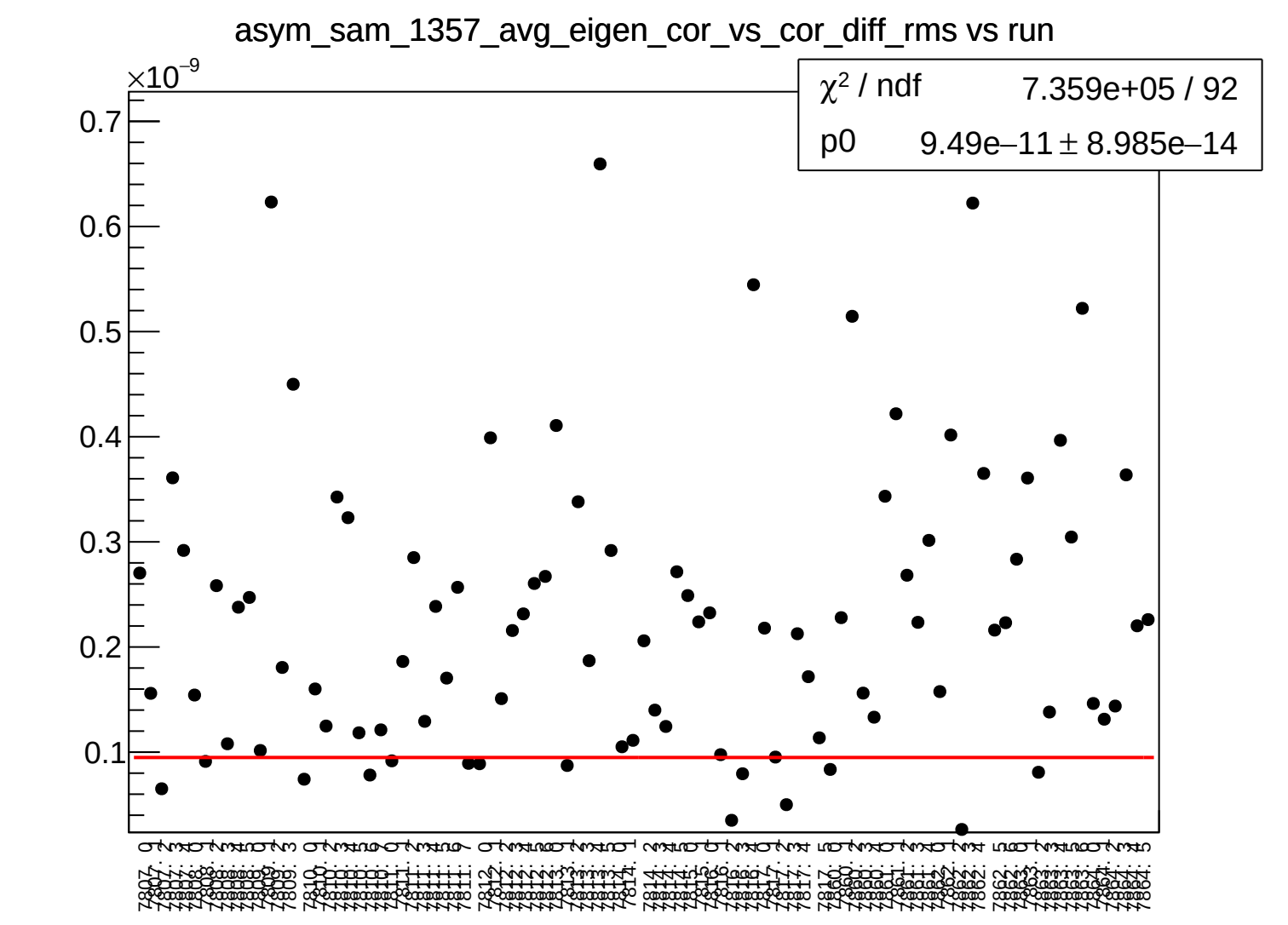

asym_sam_1357_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.595e+05 / 92
p0 38.35 ± 0.02948
100
90
80
70
60
50
40
30
20

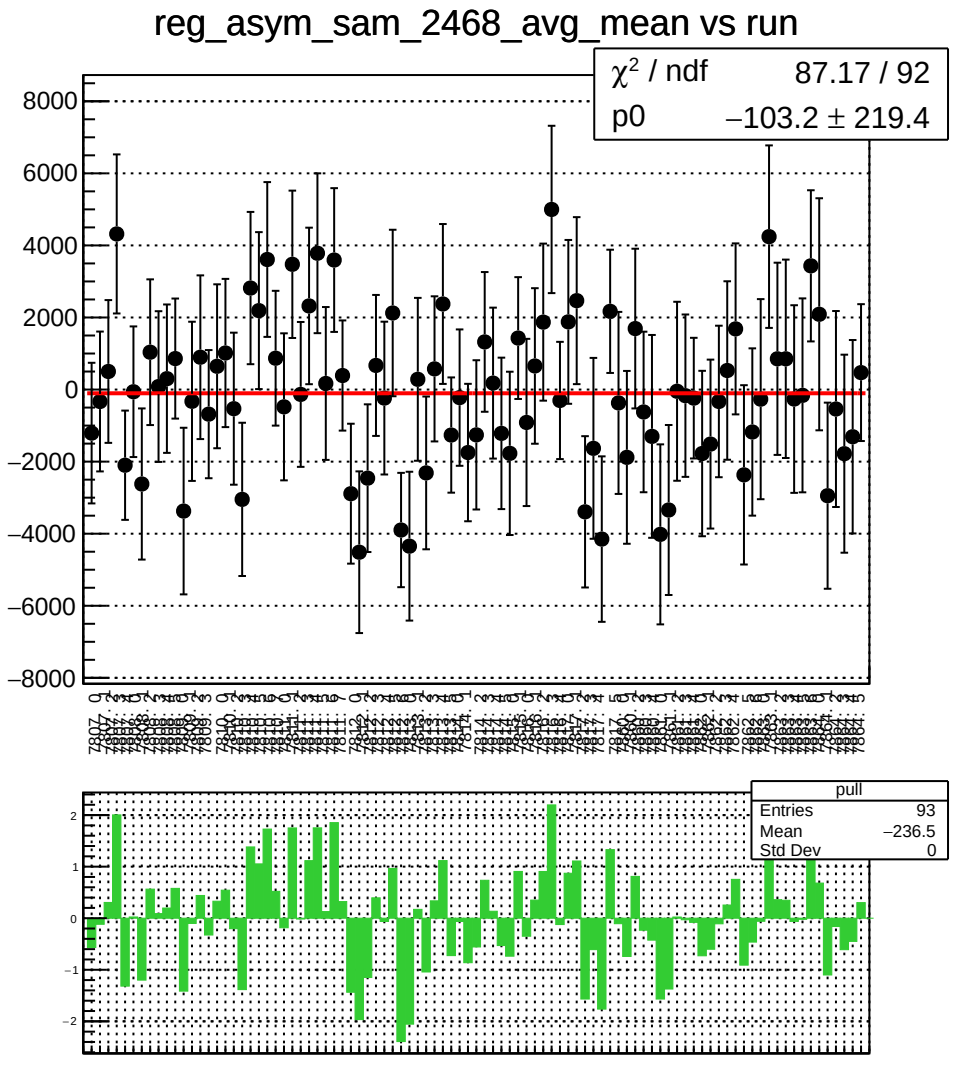

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.77 / 92
p0 −0.01965 ± 0.04169
pull
Entries 93
Mean 106.8
Std Dev 0
pull1D
Entries 93
Mean 0.01736
Std Dev 1.015

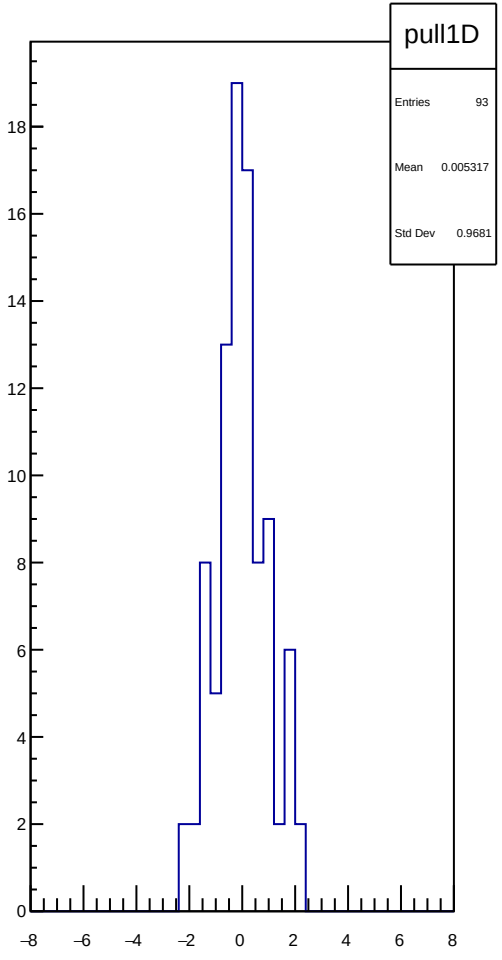

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.595e+05 / 92
p0 38.35 ± 0.02948
100
90
80
70
60
50
40
30
20

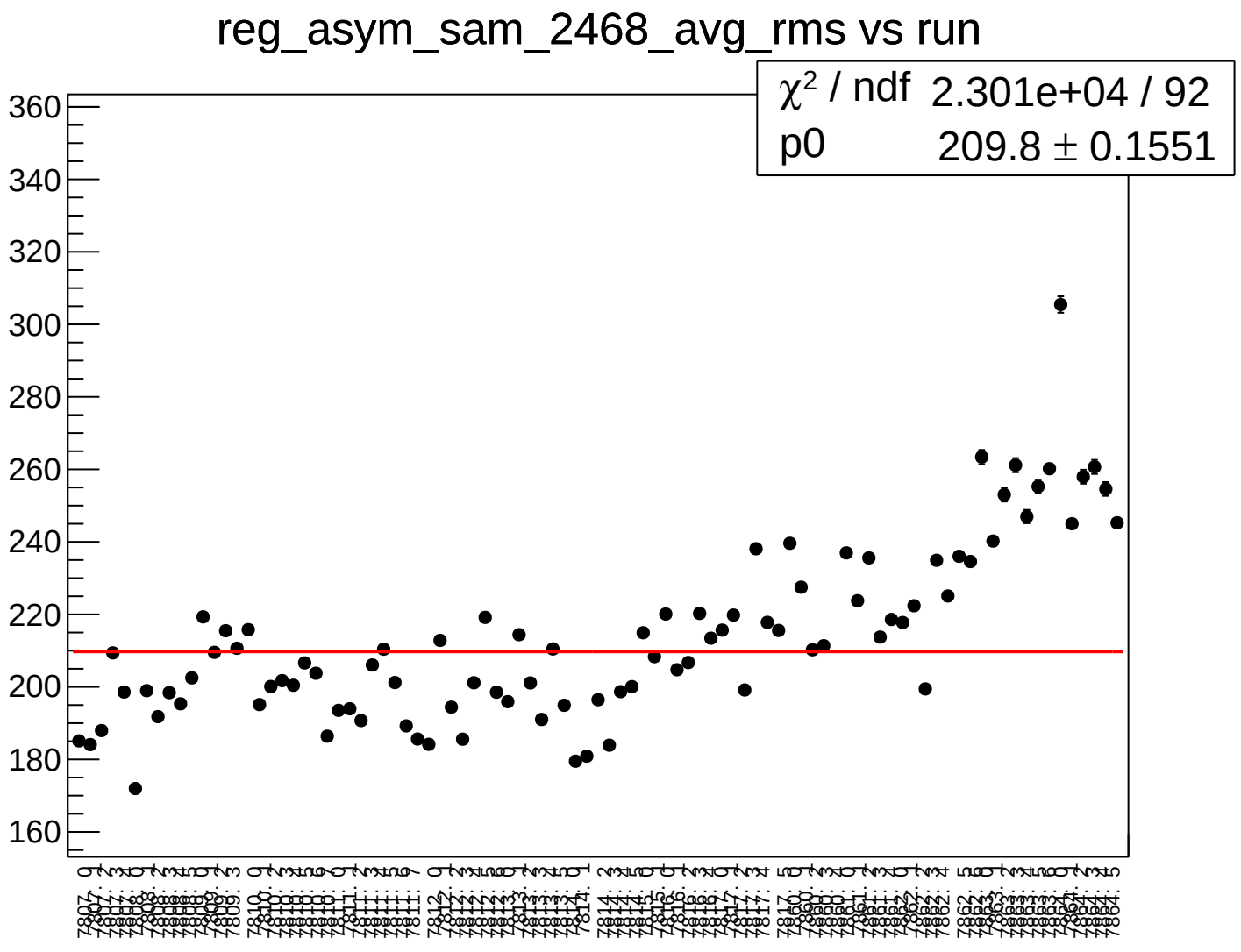

asym_sam_1357_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.66 / 92
p0 −6.314e−14 ± 1.271e−13
pull
Entries 93
Mean 67.26
Std Dev 21.54

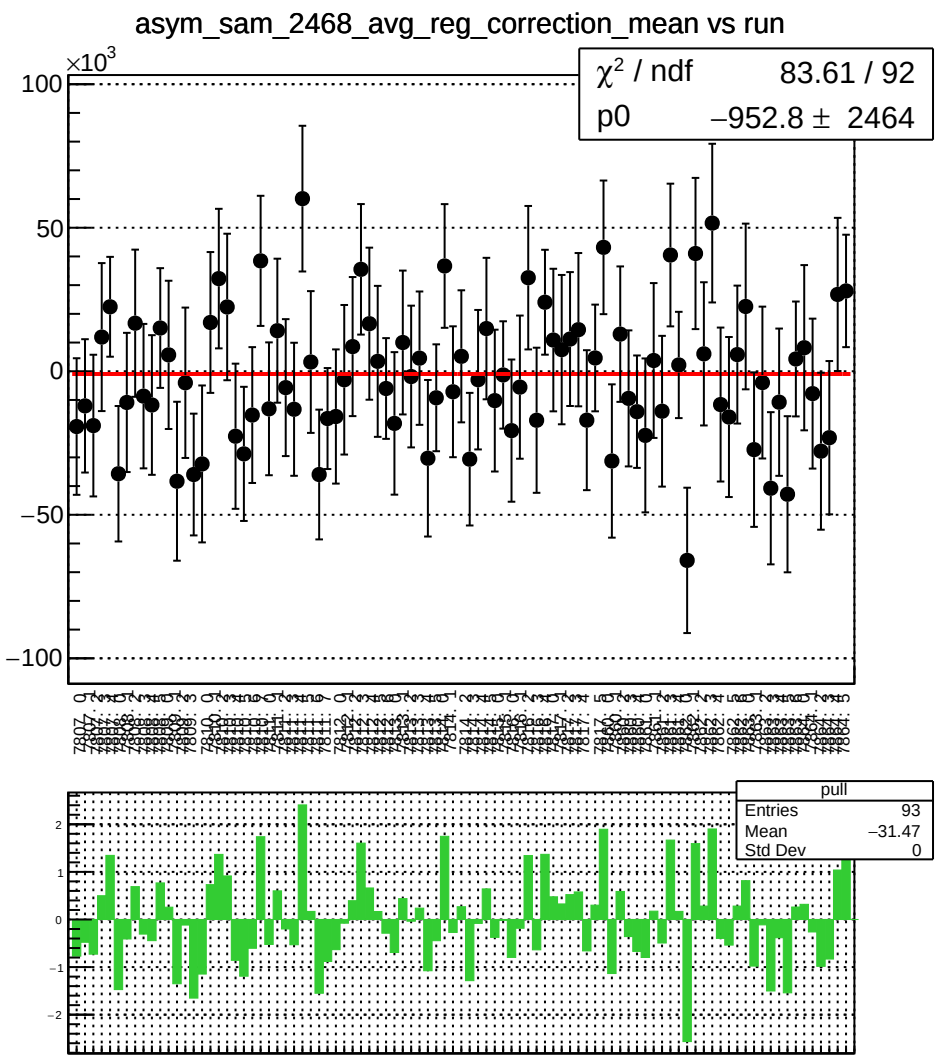

pull1D
Entries 93
Mean −0.07584
Std Dev 0.9567

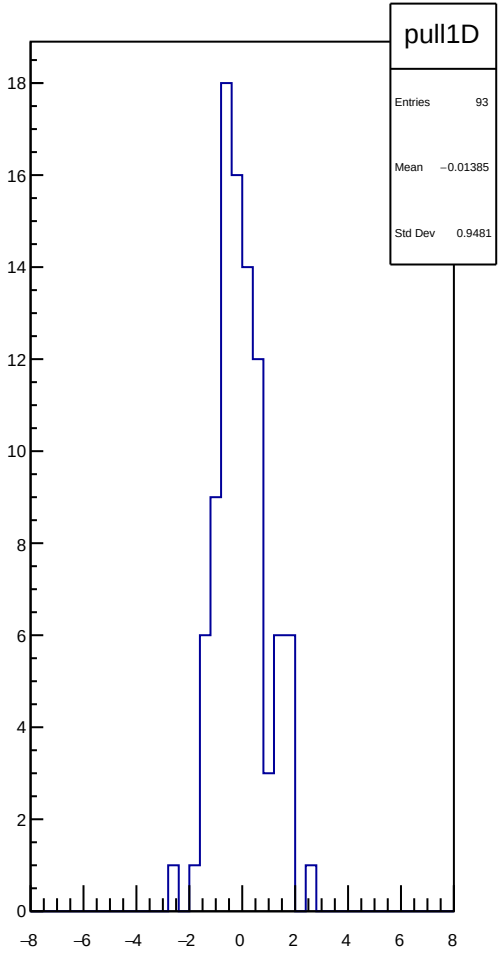

asym_sam_1357_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.359e+05 / 92
p0 9.49e−11 ± 8.985e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

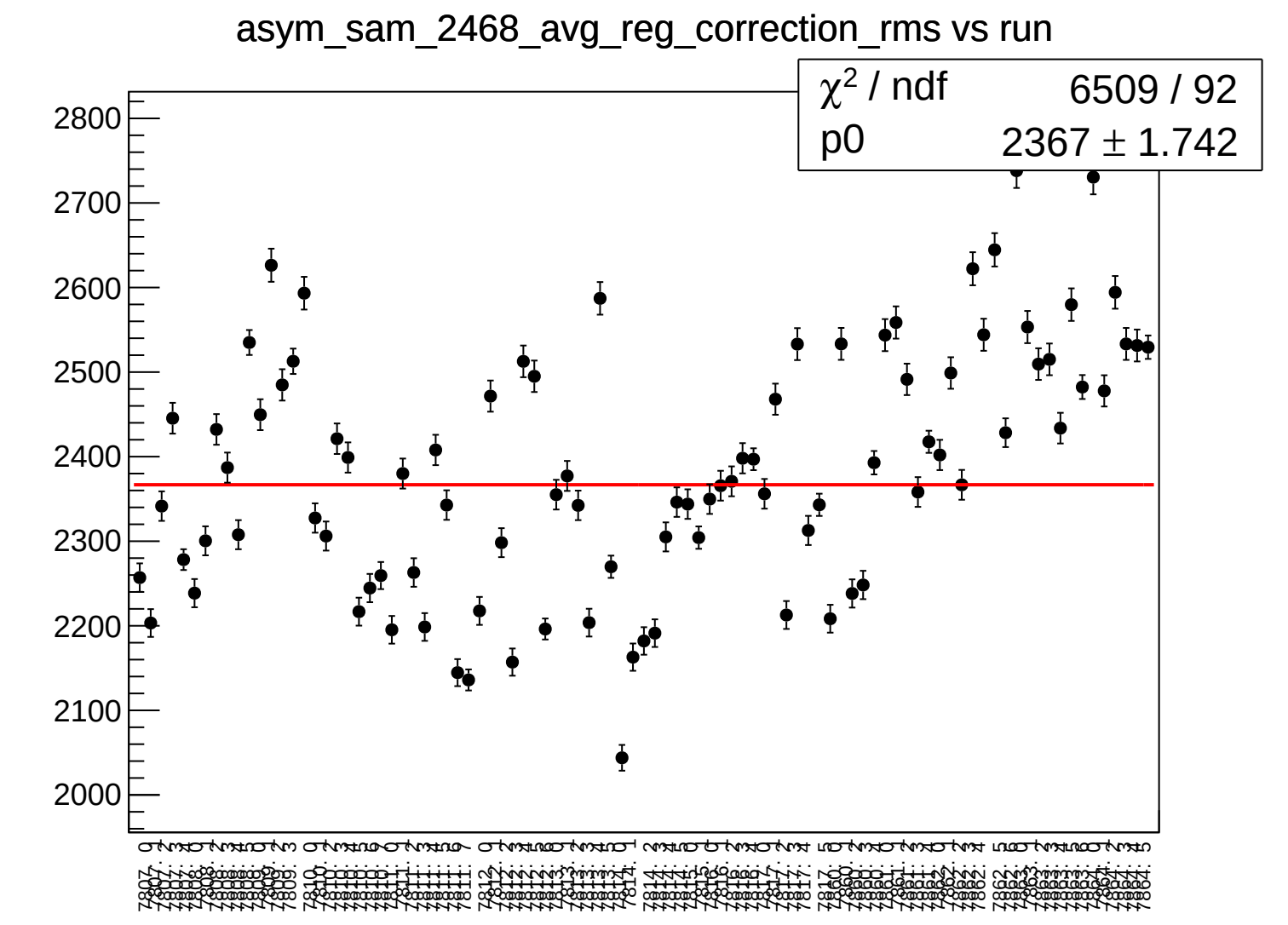

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 87.17 / 92
p0 −103.2 ± 219.4
pull
Entries 93
Mean −236.5
Std Dev 0

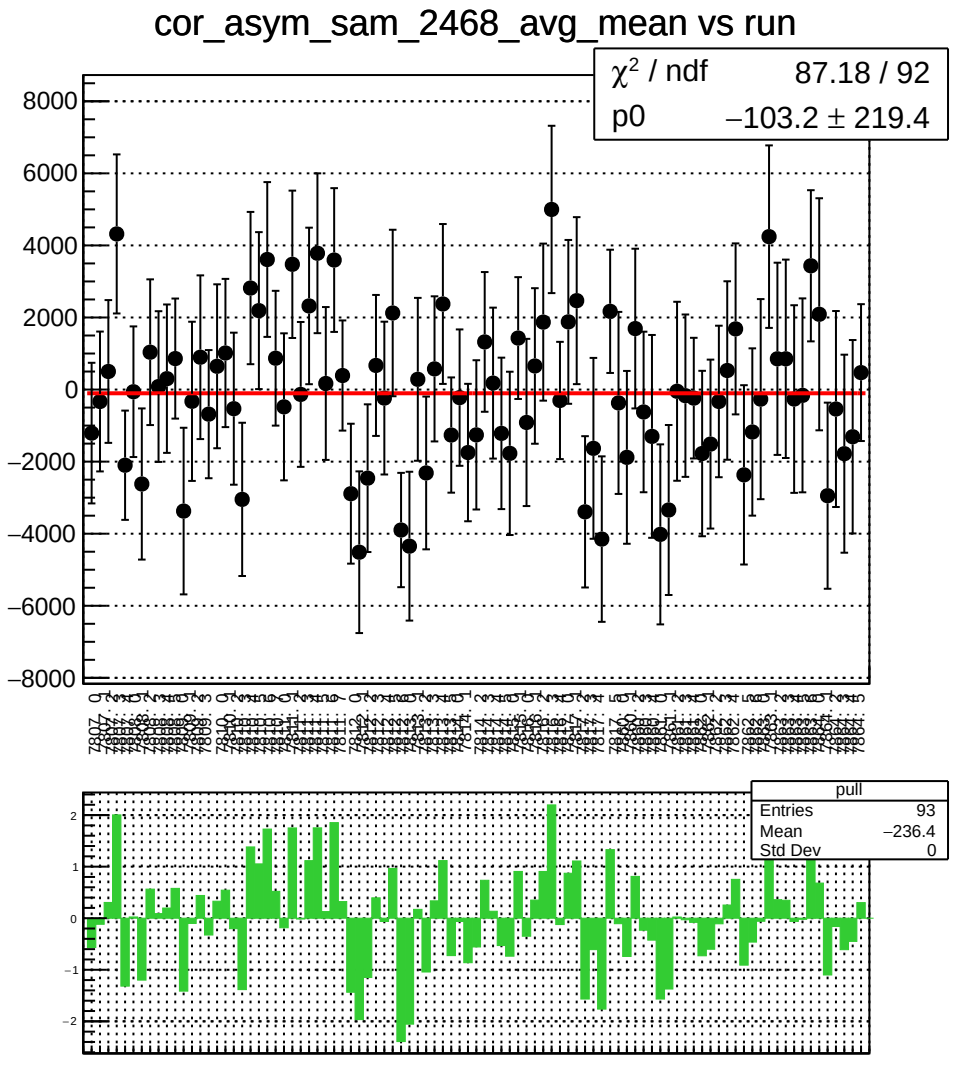

pull1D
Entries 93
Mean 0.005317
Std Dev 0.9681

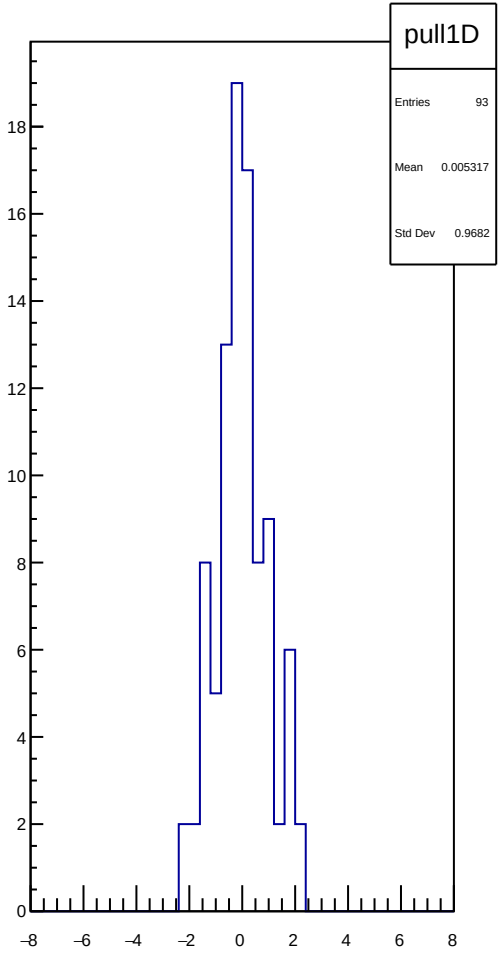

reg_asym_sam_2468_avg_rms vs run
χ² / ndf 2.301e+04 / 92
p0 209.8 ± 0.1551
360
340
320
300
280
260
240
220
200
180
160

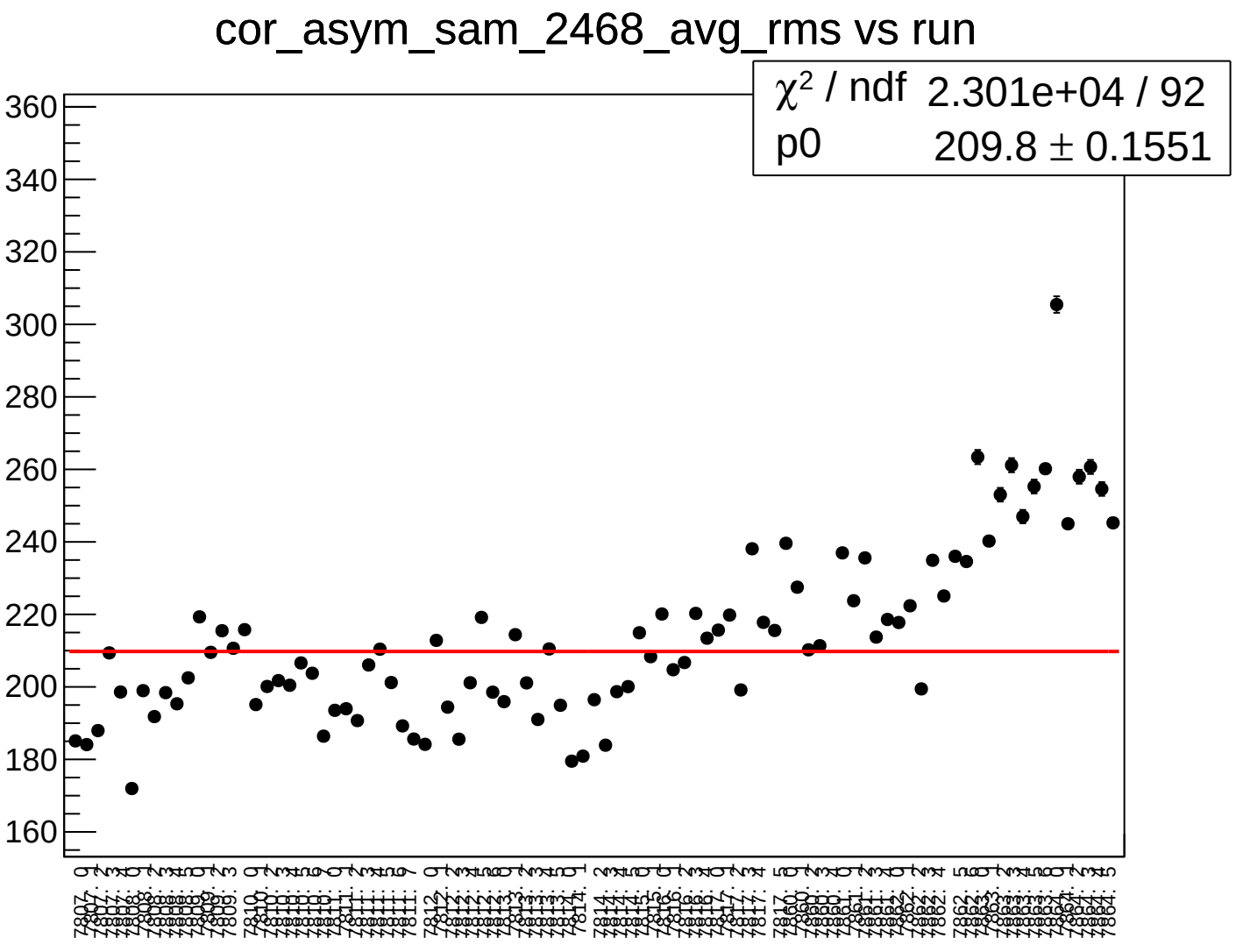

asym_sam_2468_avg_reg_correction_mean vs run
×10^3
χ² / ndf 83.61 / 92
p0 −952.8 ± 2464
pull
Entries 93
Mean −31.47
Std Dev 0

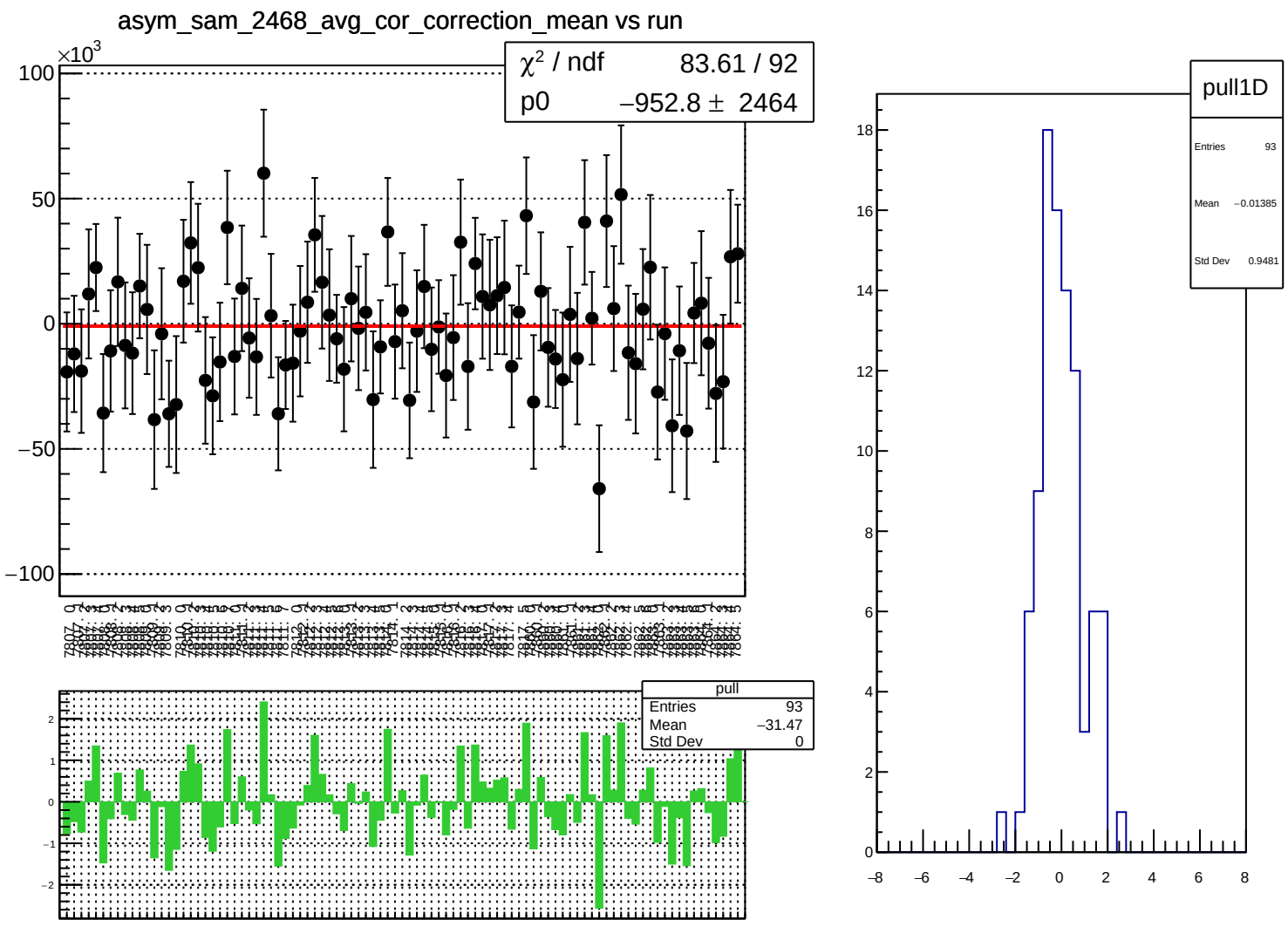

pull1D
Entries 93
Mean −0.01385
Std Dev 0.9481

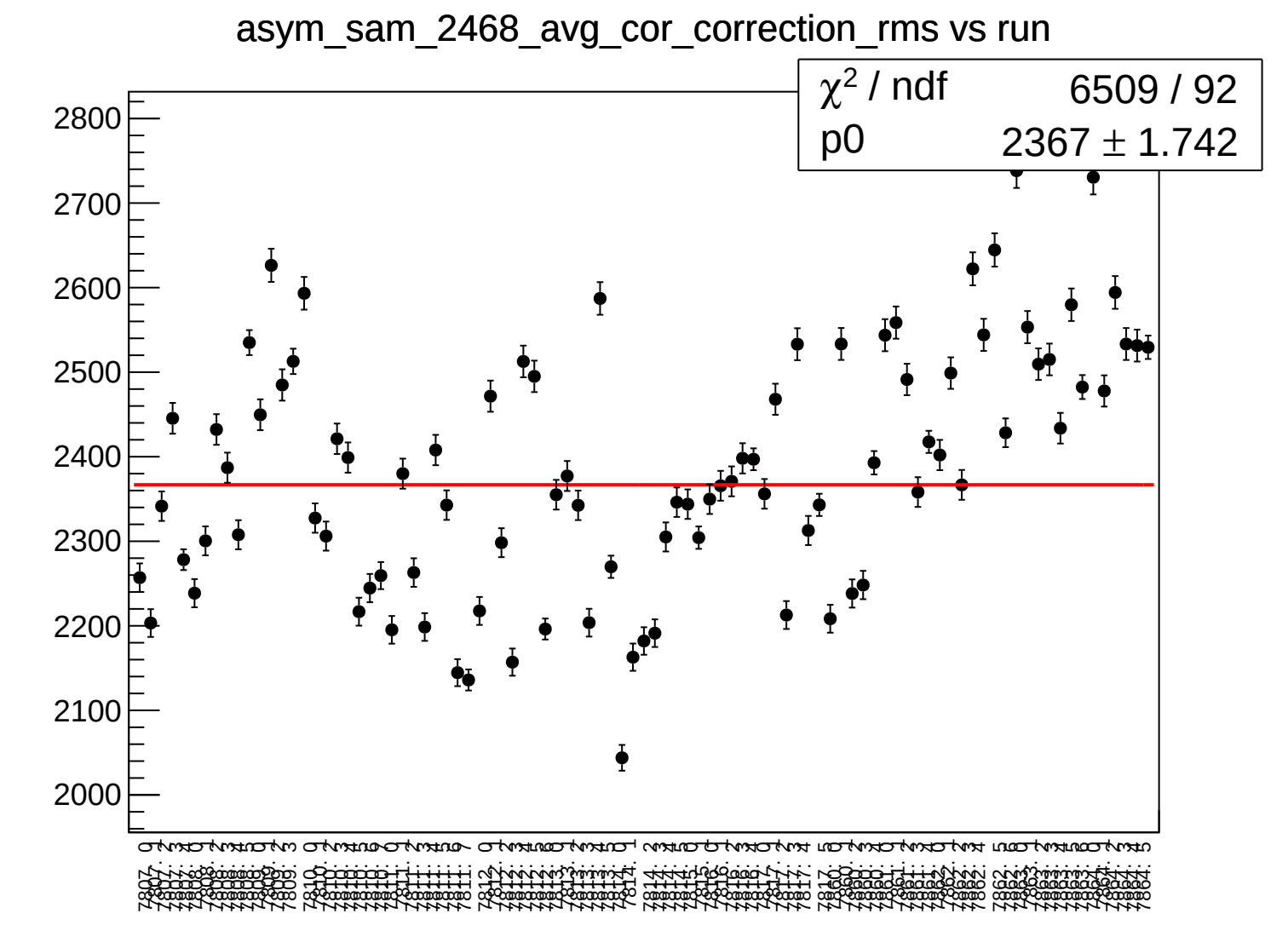

asym_sam_2468_avg_reg_correction_rms vs run
χ² / ndf 6509 / 92
p0 2367 ± 1.742
2800
2700
2600
2500
2400
2300
2200
2100
2000

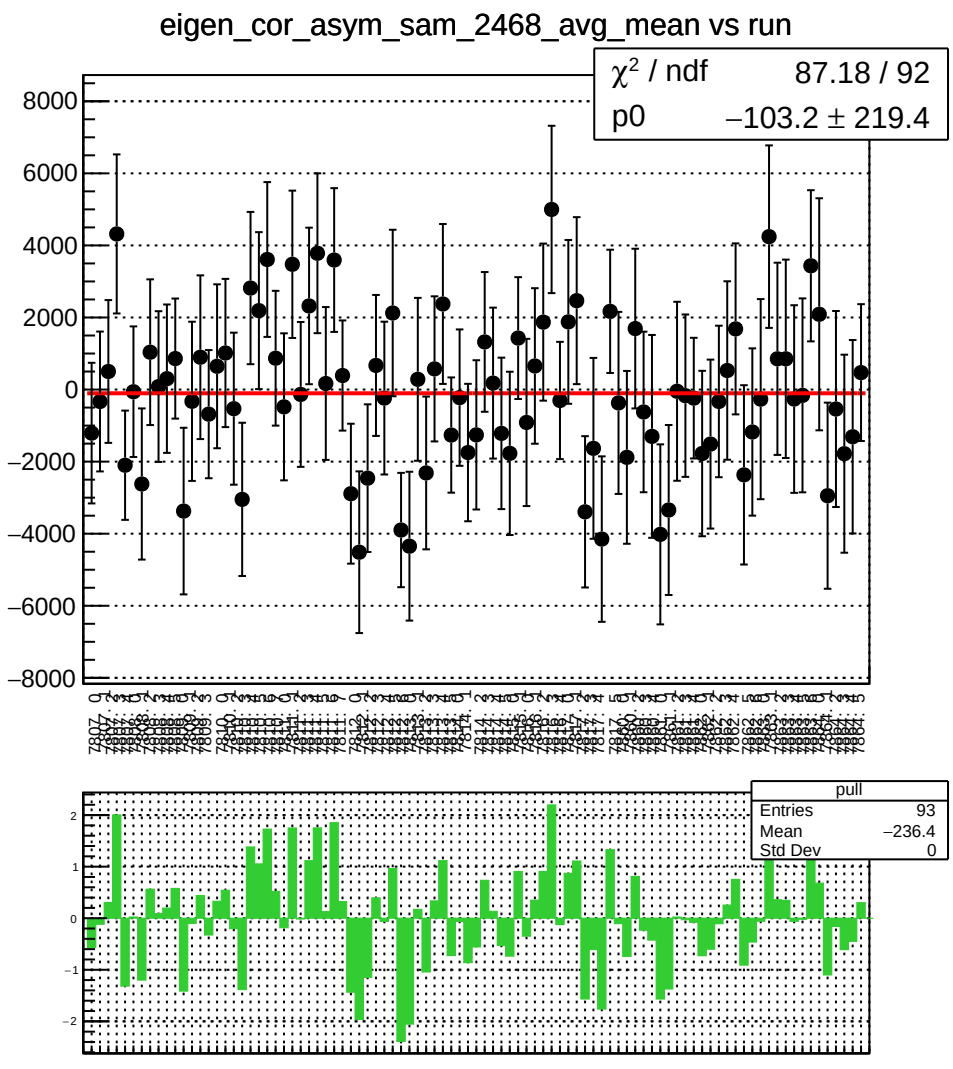

cor_asym_sam_2468_avg_mean vs run
χ² / ndf 87.18 / 92
p0 −103.2 ± 219.4
pull
Entries 93
Mean −236.4
Std Dev 0

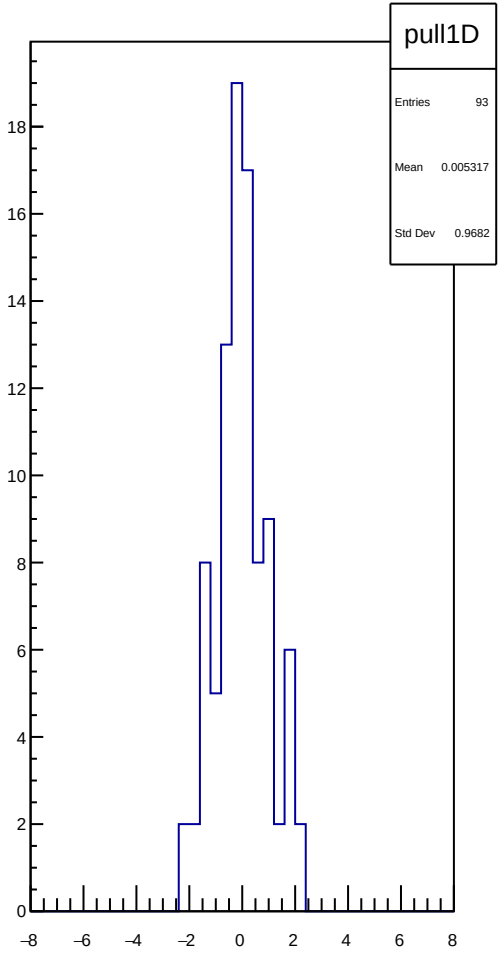

pull1D
Entries 93
Mean 0.005317
Std Dev 0.9682

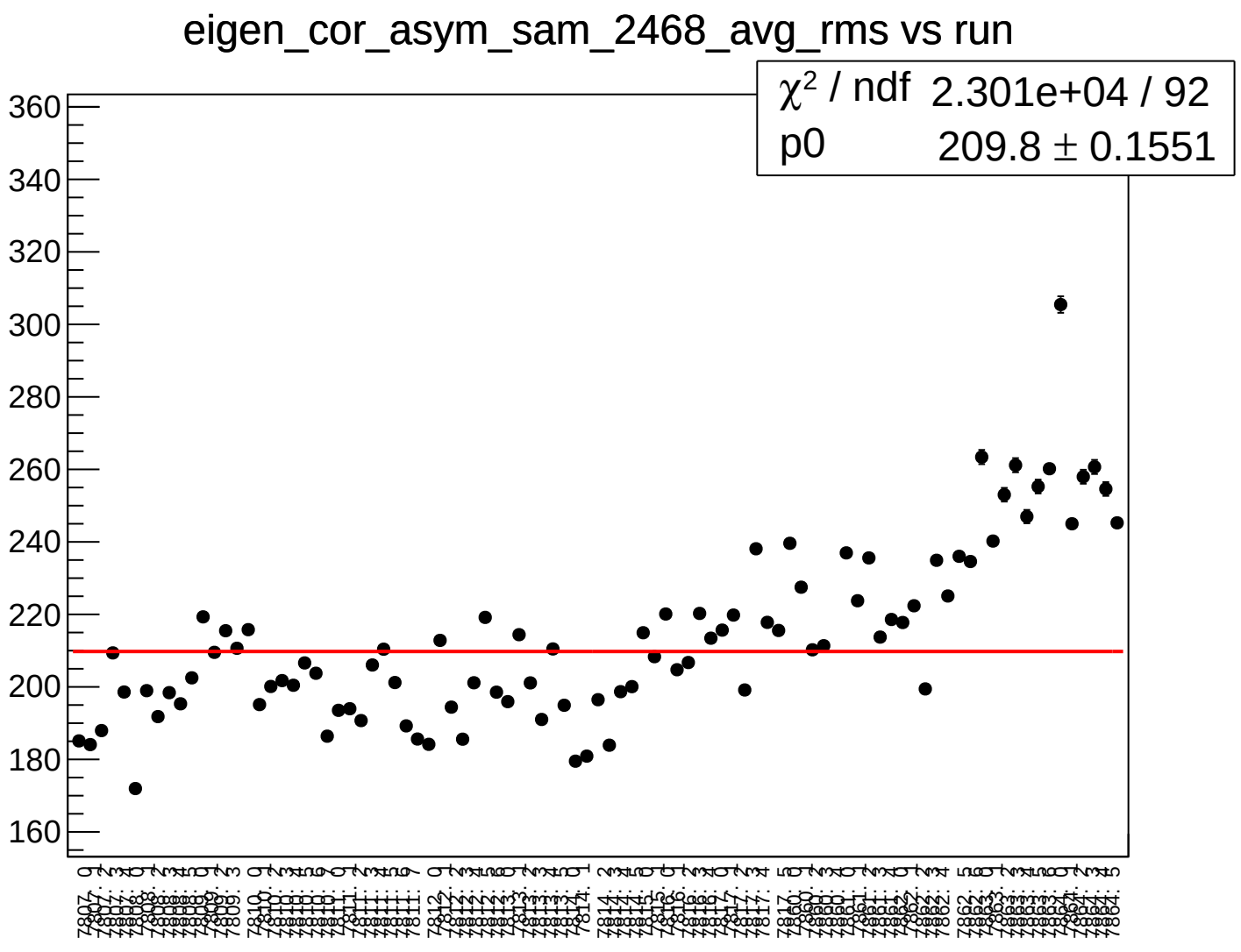

cor_asym_sam_2468_avg_rms vs run
χ² / ndf 2.301e+04 / 92
p0 209.8 ± 0.1551
360
340
320
300
280
260
240
220
200
180
160

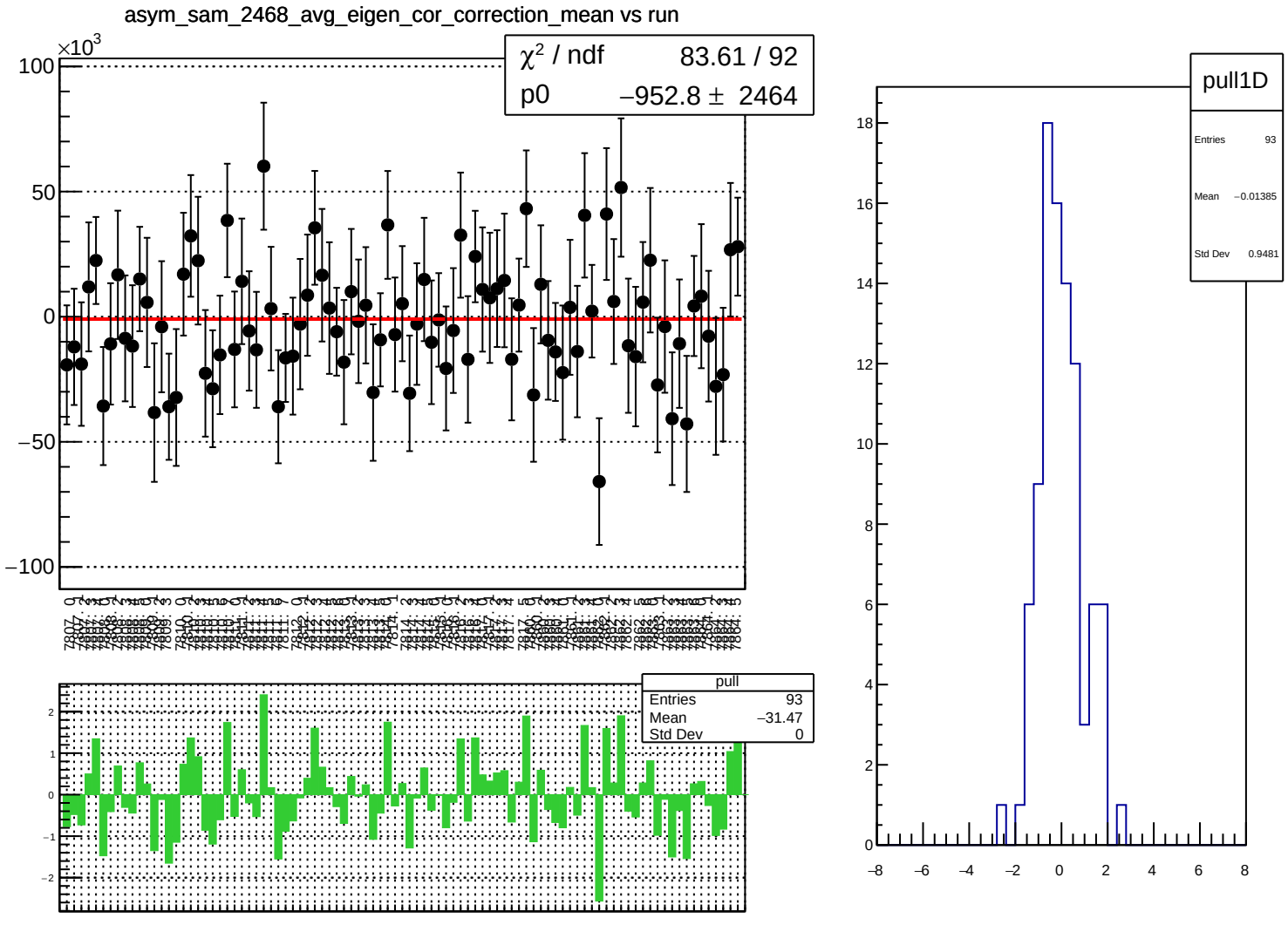

asym_sam_2468_avg_cor_correction_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 83.61 / 92
p0 −952.8 ± 2464
pull
Entries 93
Mean −31.47
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.01385
Std Dev 0.9481
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

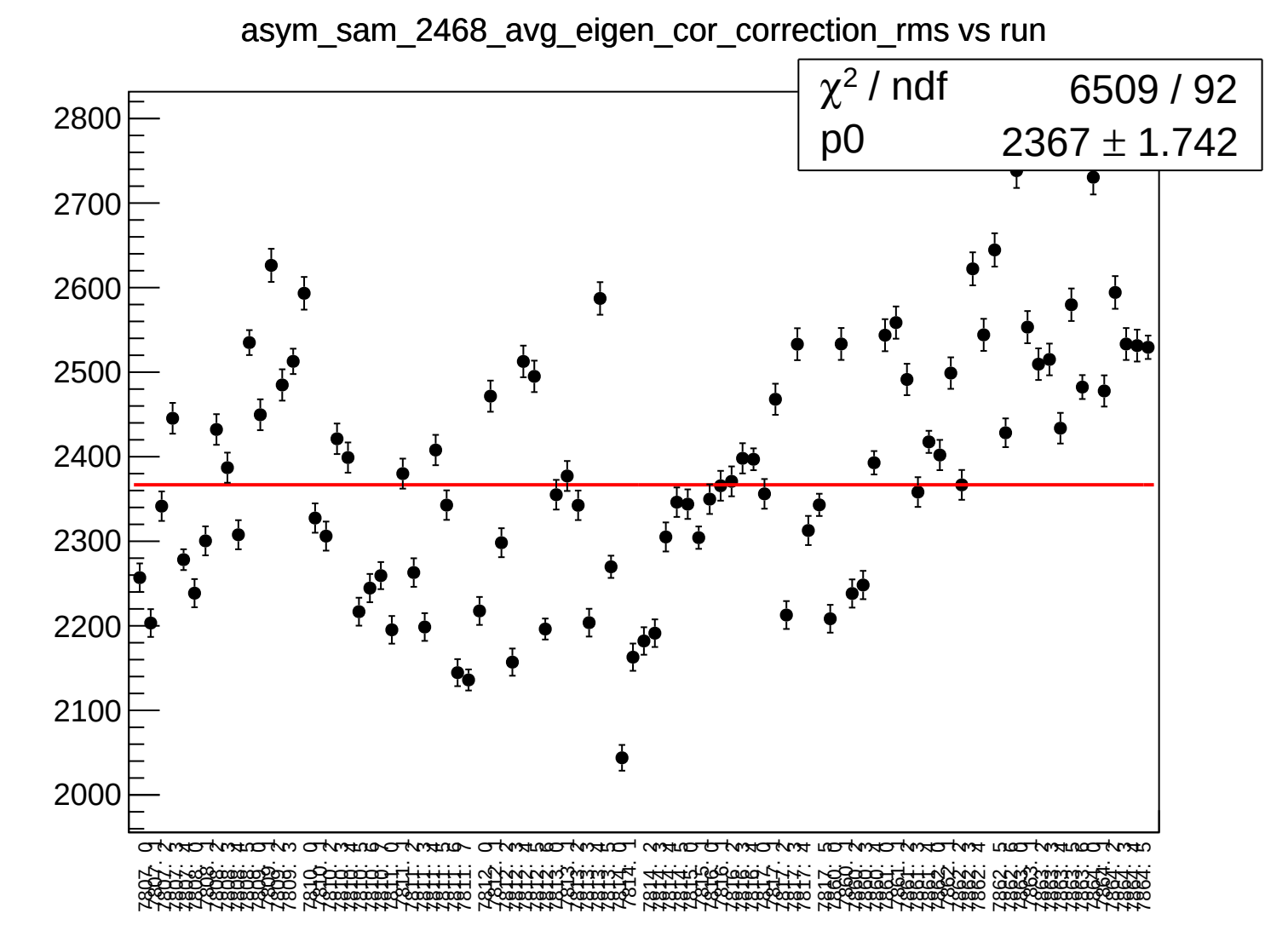

asym_sam_2468_avg_cor_correction_rms vs run
χ^2 / ndf 6509 / 92
p0 2367 ± 1.742
2800
2700
2600
2500
2400
2300
2200
2100
2000

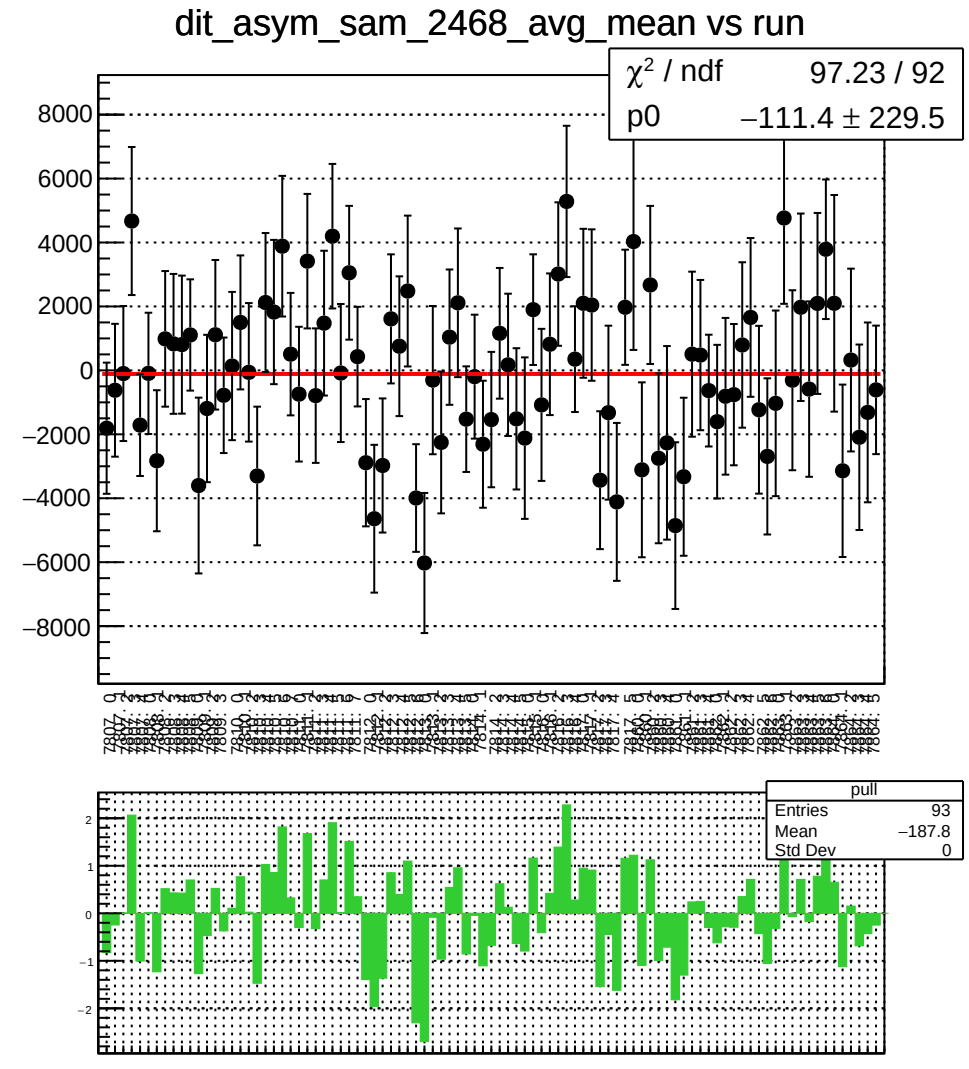

eigen_cor_asym_sam_2468_avg_mean vs run
χ² / ndf 87.18 / 92
p0 −103.2 ± 219.4
pull
Entries 93
Mean −236.4
Std Dev 0

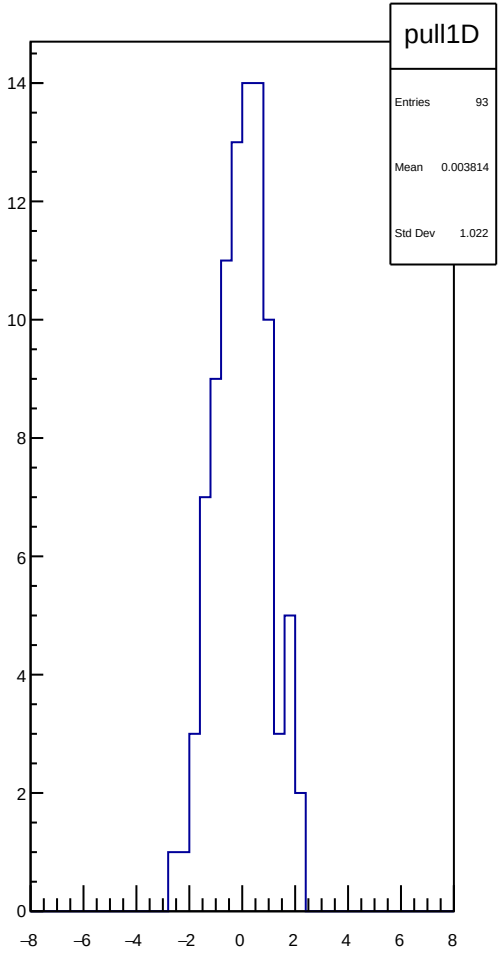

pull1D
Entries 93
Mean 0.005317
Std Dev 0.9682

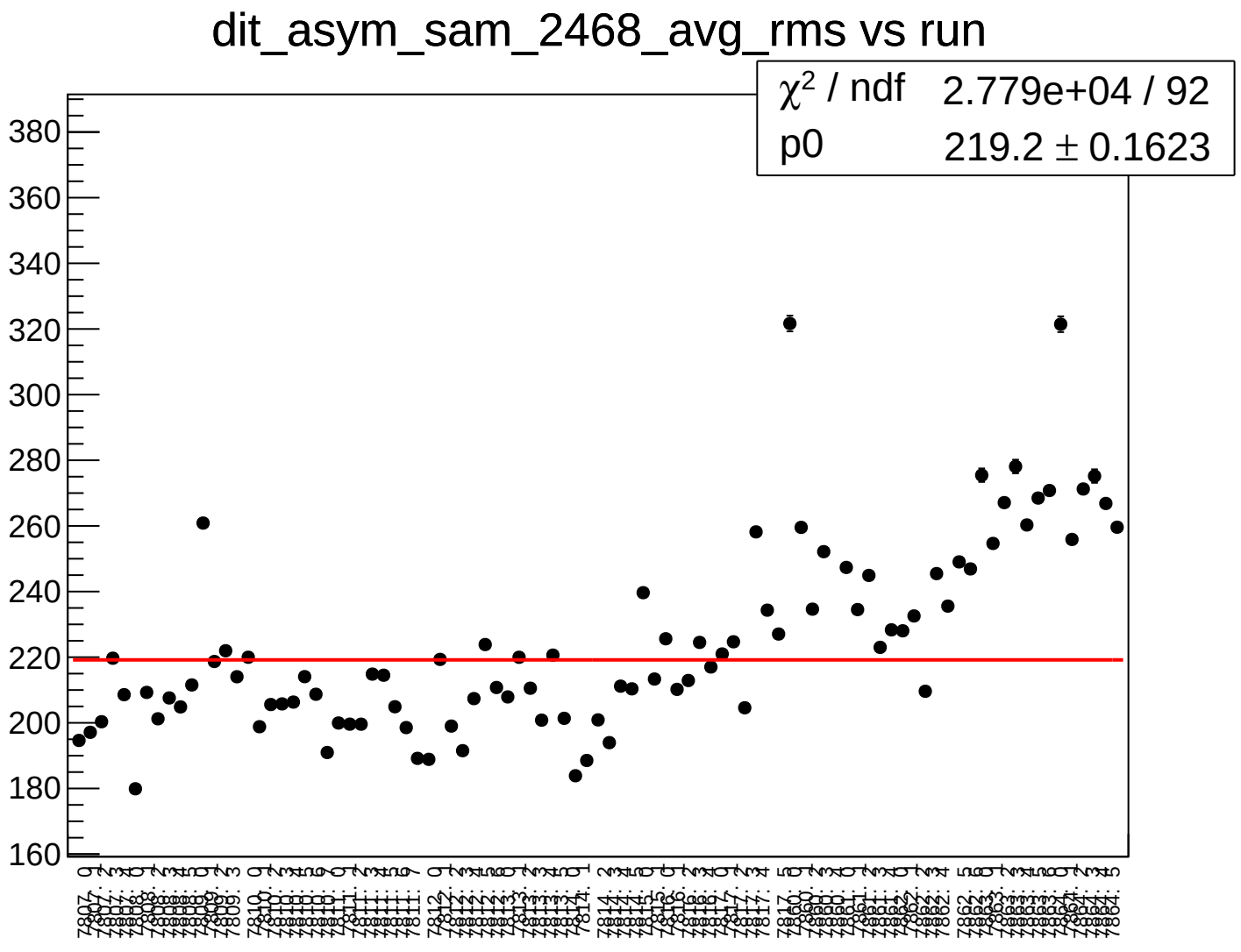

eigen_cor_asym_sam_2468_avg_rms vs run
χ² / ndf 2.301e+04 / 92
p0 209.8 ± 0.1551
360
340
320
300
280
260
240
220
200
180
160

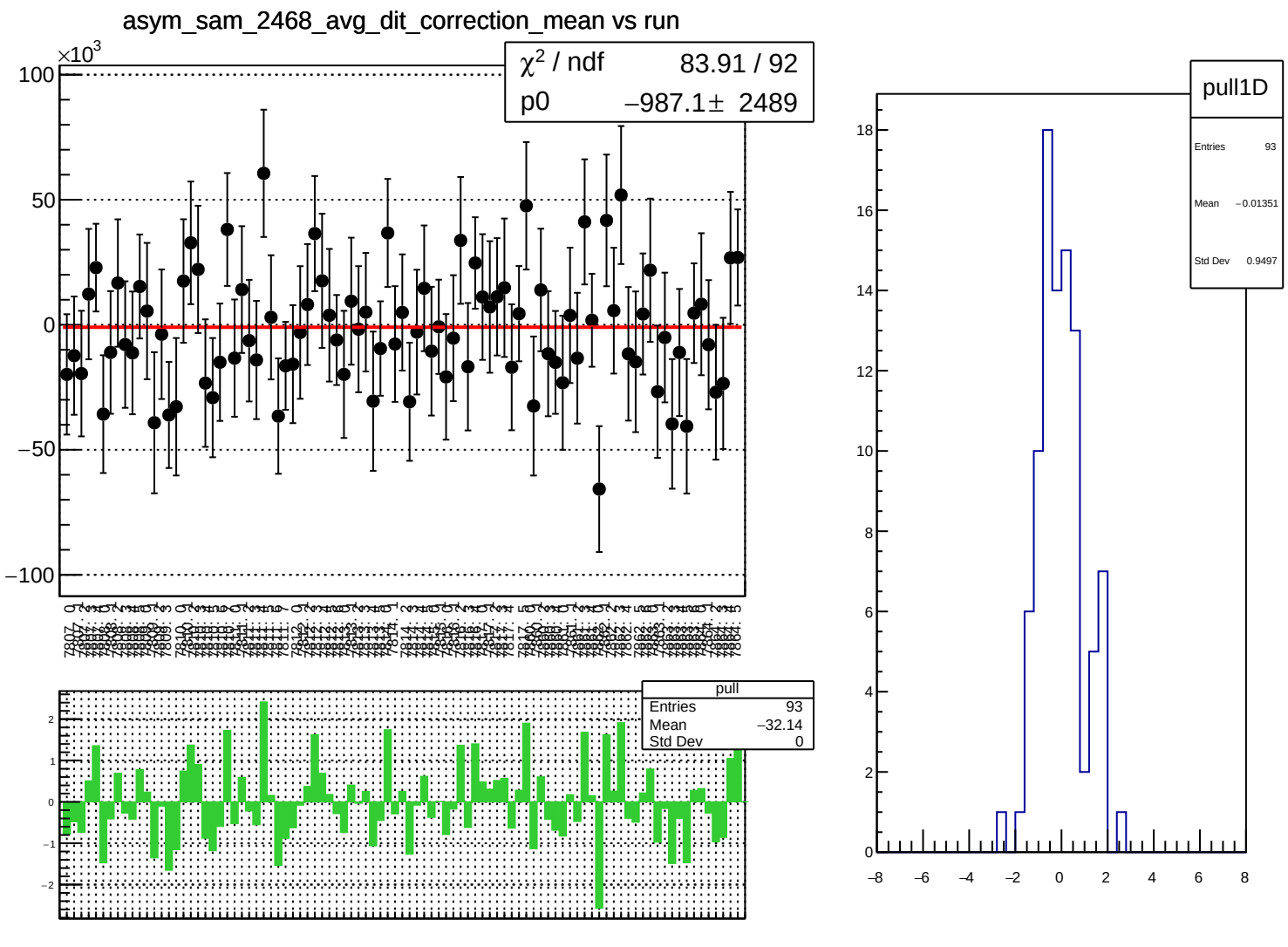

asym_sam_2468_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 83.61 / 92
p0 −952.8 ± 2464
pull
Entries 93
Mean −31.47
Std Dev 0
pull1D
Entries 93
Mean −0.01385
Std Dev 0.9481

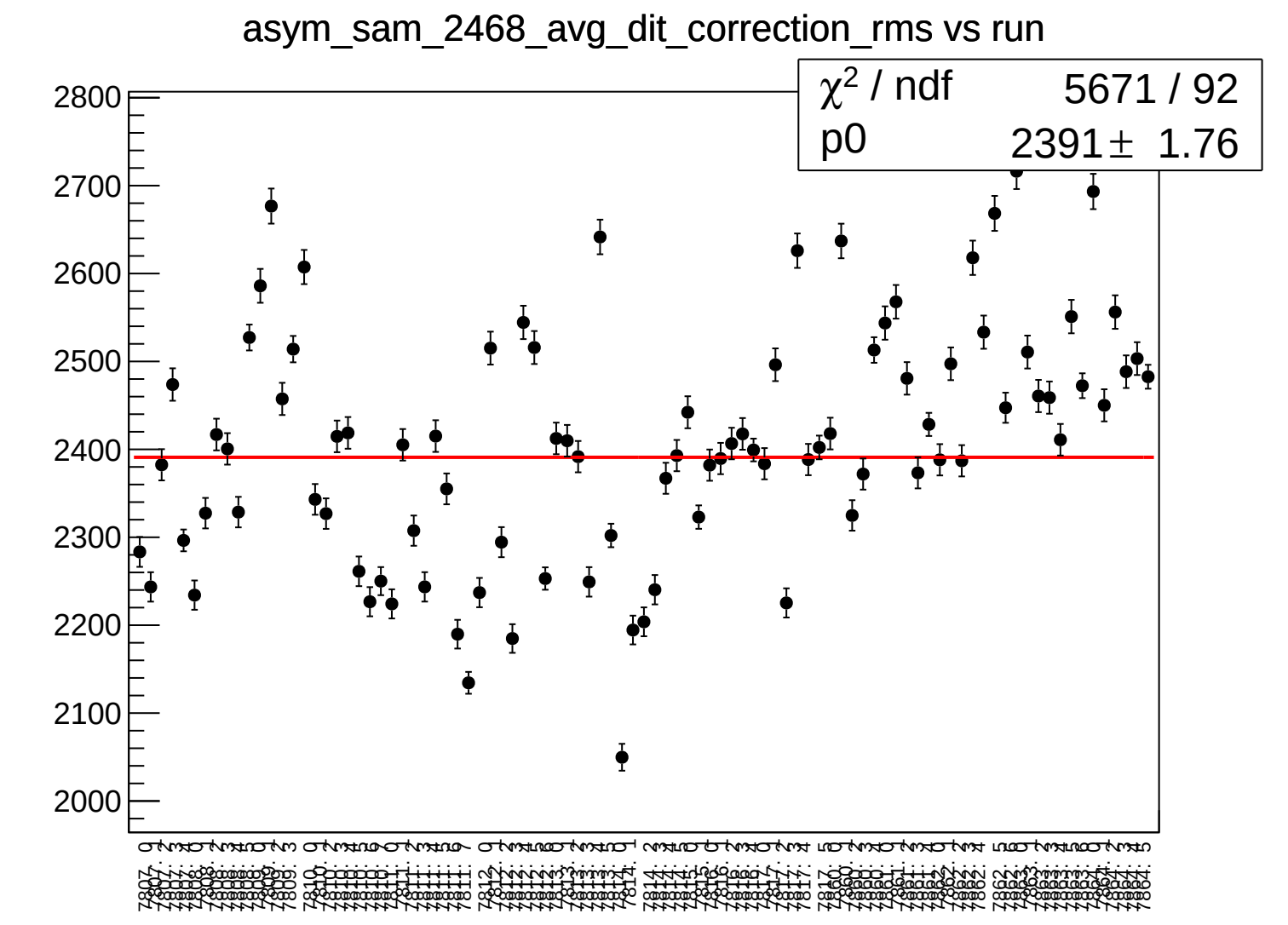

asym_sam_2468_avg_eigen_cor_correction_rms vs run
χ² / ndf 6509 / 92
p0 2367 ± 1.742
2800
2700
2600
2500
2400
2300
2200
2100
2000

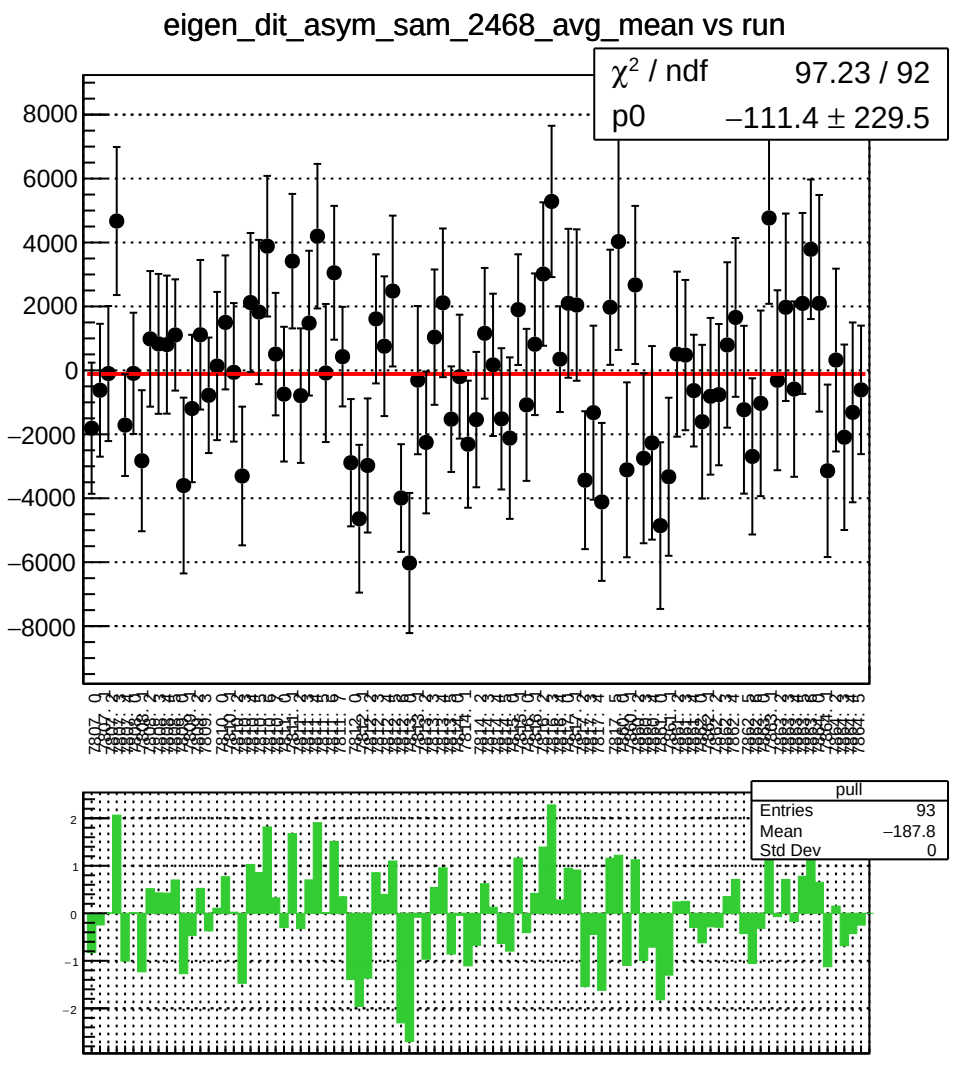

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 97.23 / 92
p0 −111.4 ± 229.5
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 93
Mean −187.8
Std Dev 0
2
1
0
−1
−2

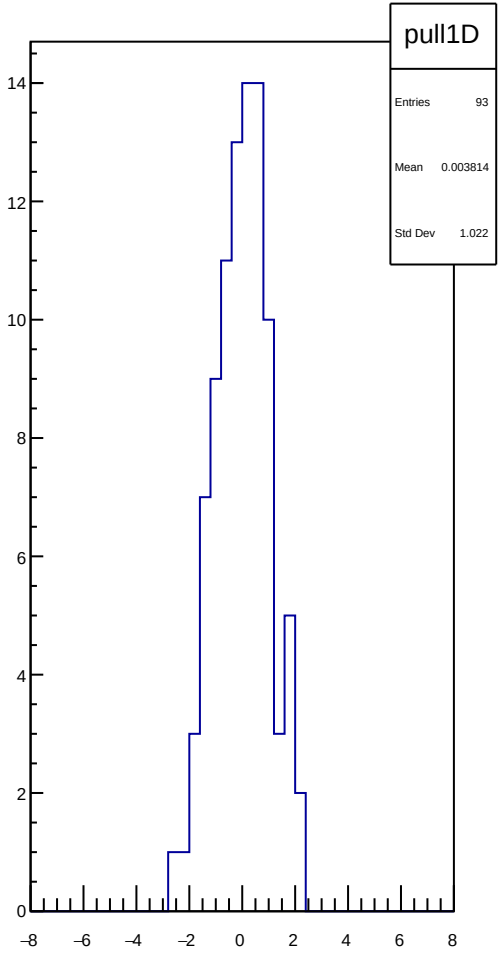

pull1D
Entries 93
Mean 0.003814
Std Dev 1.022
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

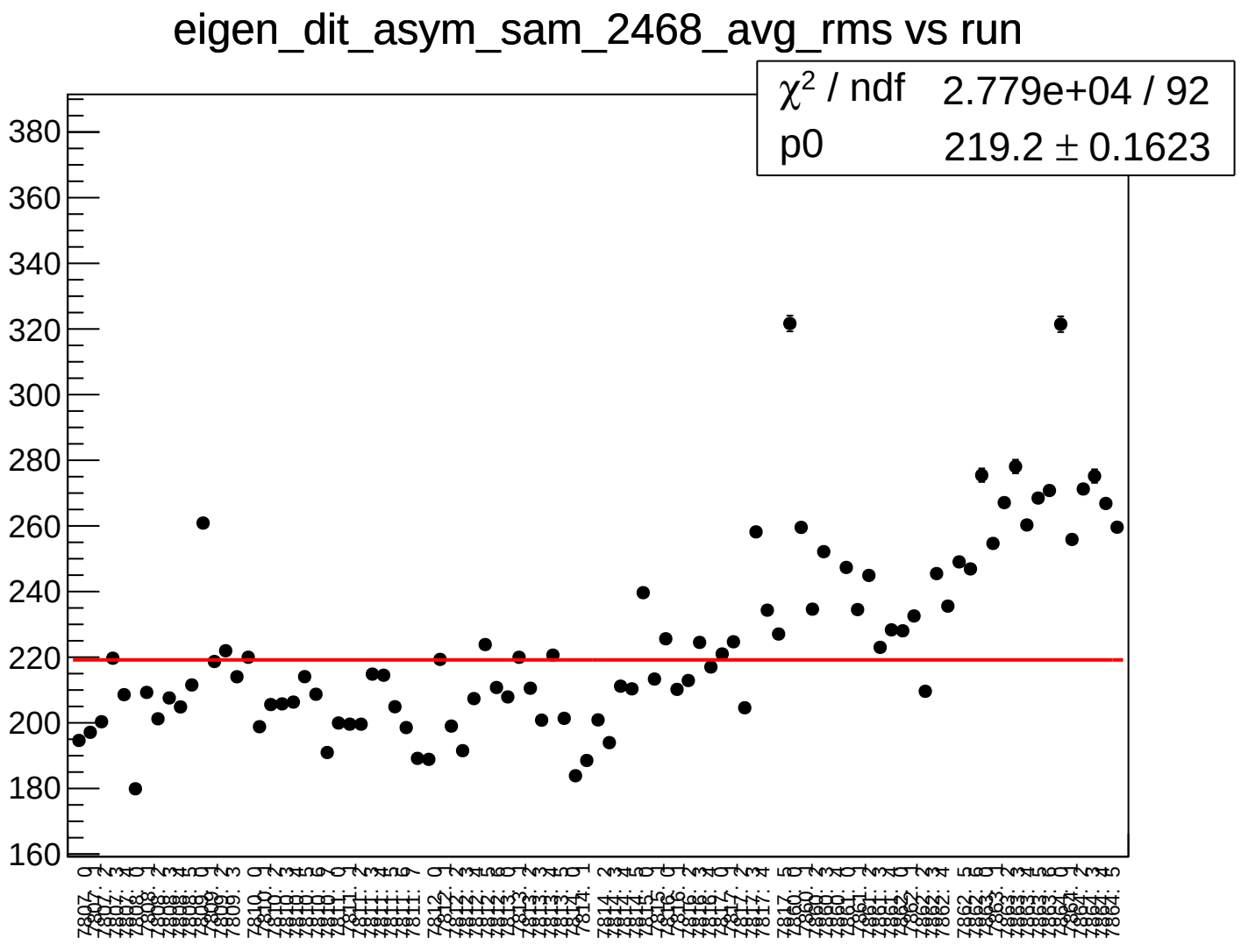

dit_asym_sam_2468_avg_rms vs run
χ² / ndf 2.779e+04 / 92
p0 219.2 ± 0.1623
380
360
340
320
300
280
260
240
220
200
180
160

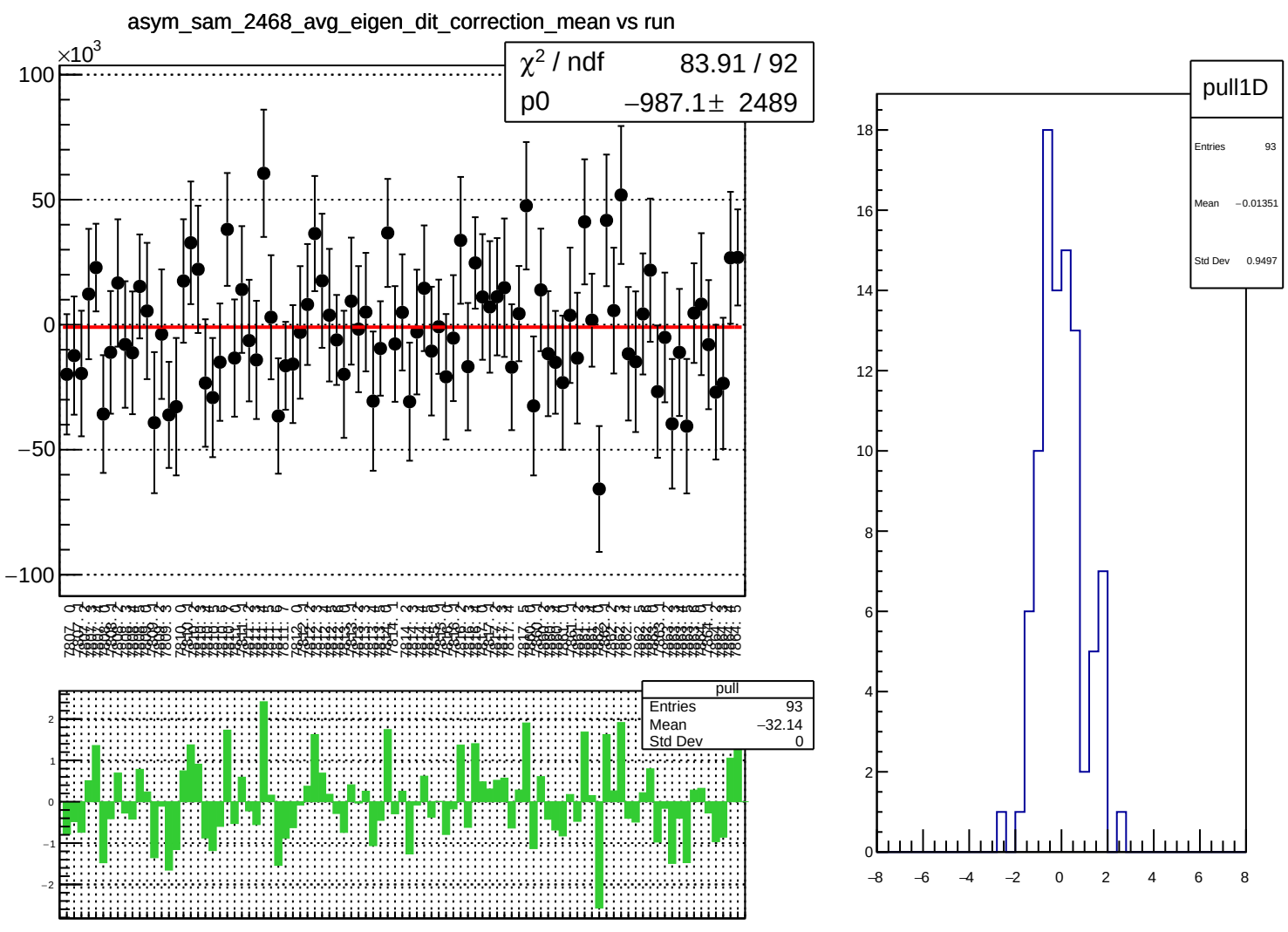

asym_sam_2468_avg_dit_correction_mean vs run
×10^3
χ² / ndf 83.91 / 92
p0 −987.1± 2489
pull
Entries 93
Mean −32.14
Std Dev 0
pull1D
Entries 93
Mean −0.01351
Std Dev 0.9497

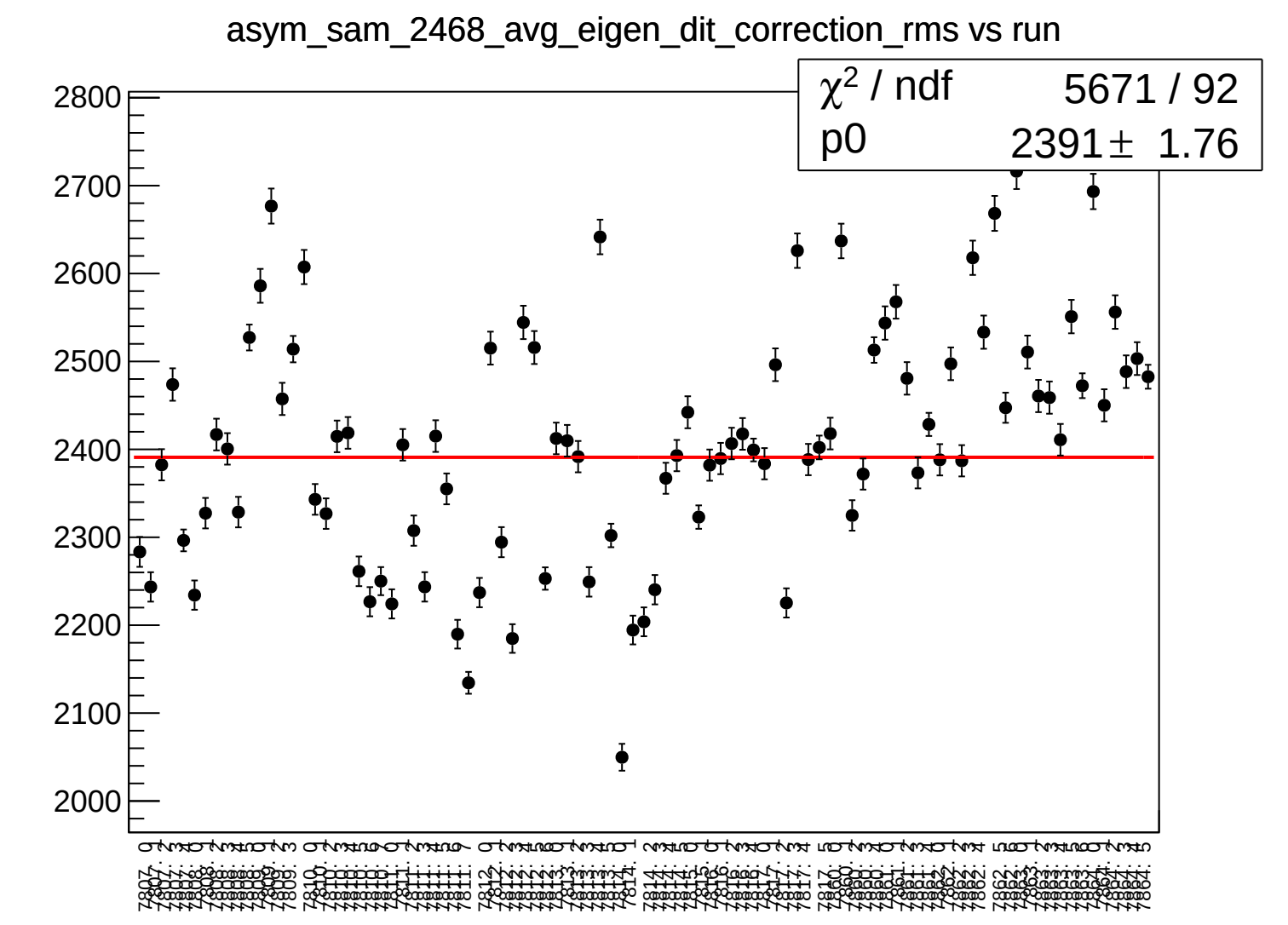

asym_sam_2468_avg_dit_correction_rms vs run
χ² / ndf 5671 / 92
p0 2391 ± 1.76
2800
2700
2600
2500
2400
2300
2200
2100
2000

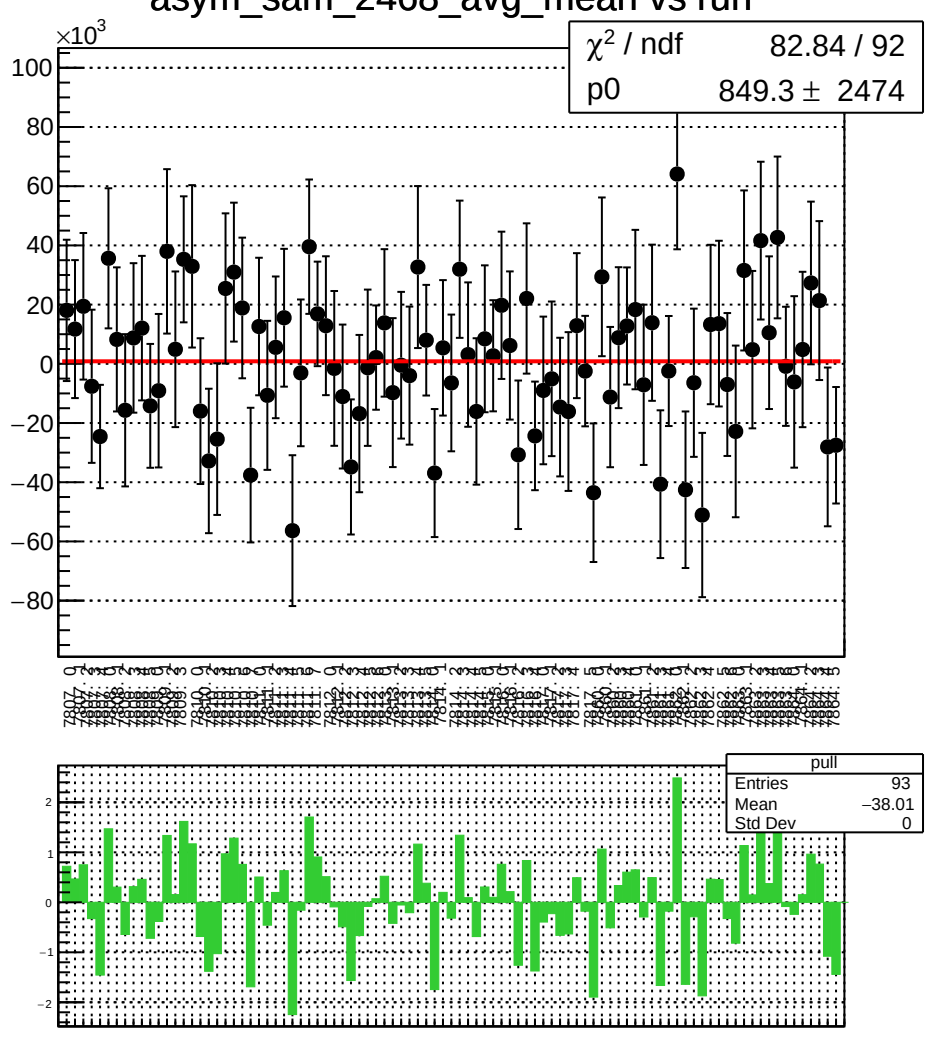

eigen_dit_asym_sam_2468_avg_mean vs run
χ² / ndf 97.23 / 92
p0 −111.4 ± 229.5
pull
Entries 93
Mean −187.8
Std Dev 0

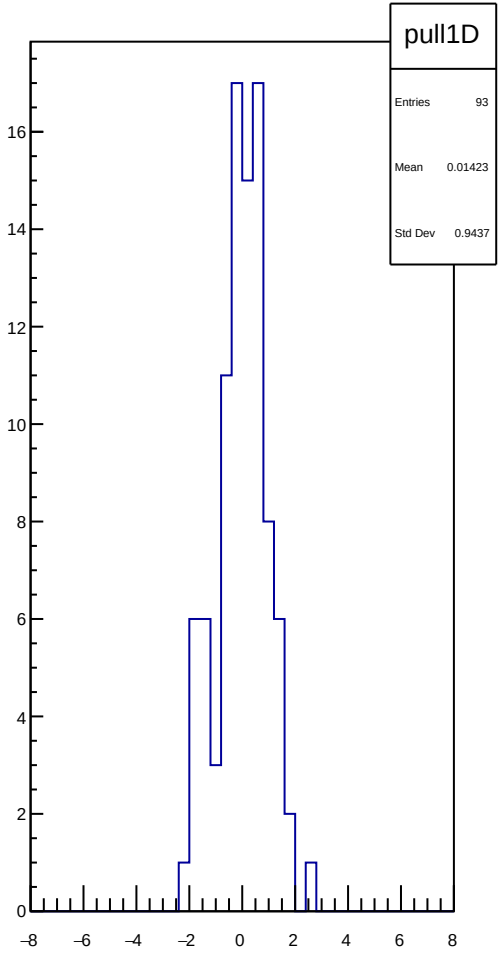

pull1D
Entries 93
Mean 0.003814
Std Dev 1.022

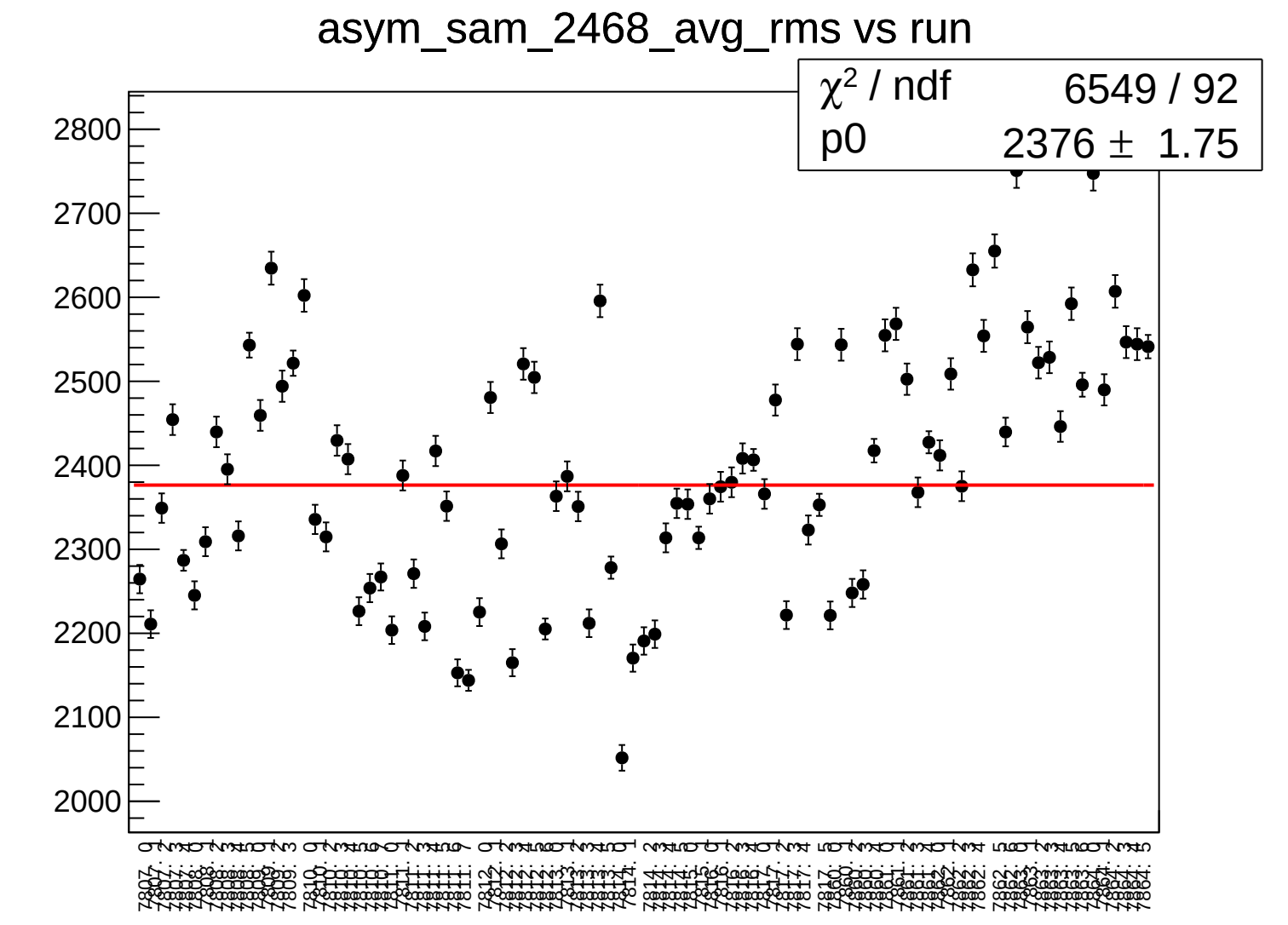

eigen_dit_asym_sam_2468_avg_rms vs run
χ² / ndf 2.779e+04 / 92
p0 219.2 ± 0.1623
380
360
340
320
300
280
260
240
220
200
180
160

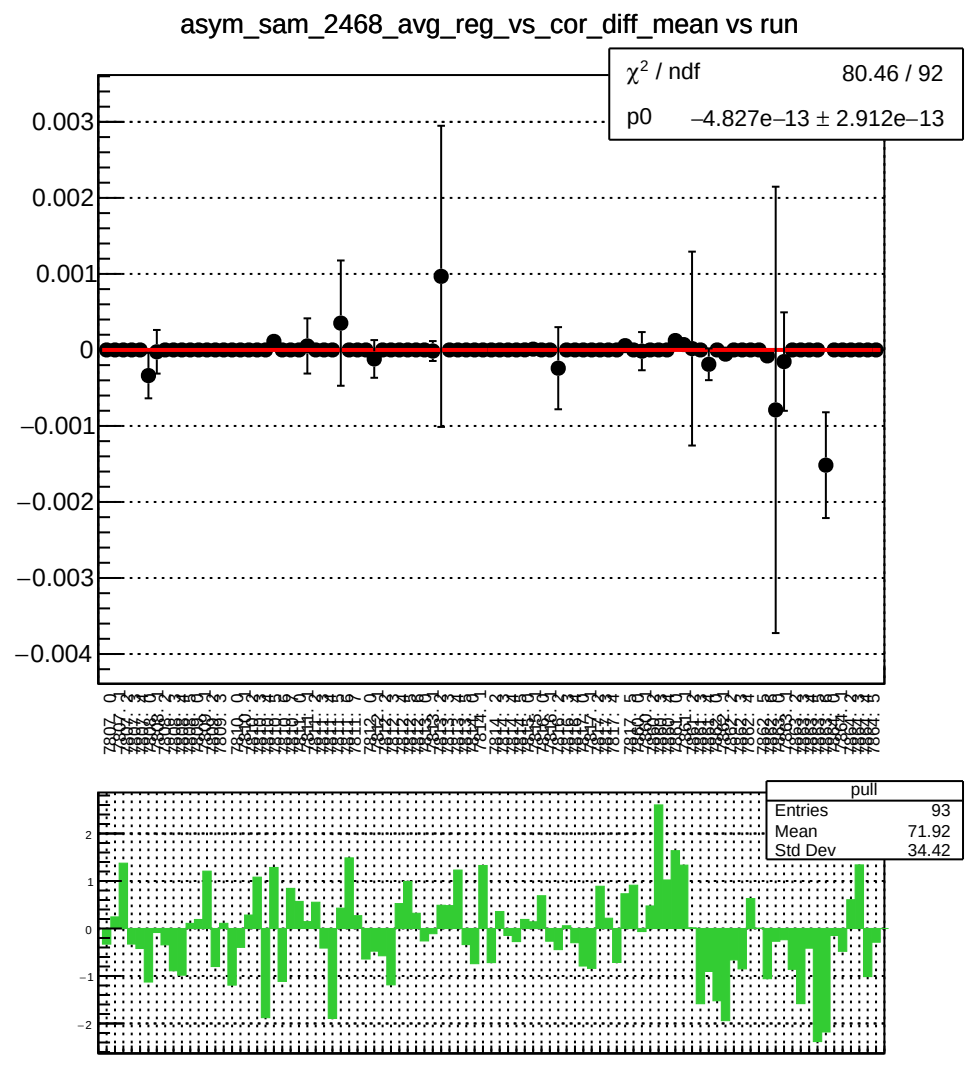

asym_sam_2468_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 83.91 / 92
p0 −987.1± 2489
100
50
0
−50
−100
pull
Entries 93
Mean −32.14
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.01351
Std Dev 0.9497
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

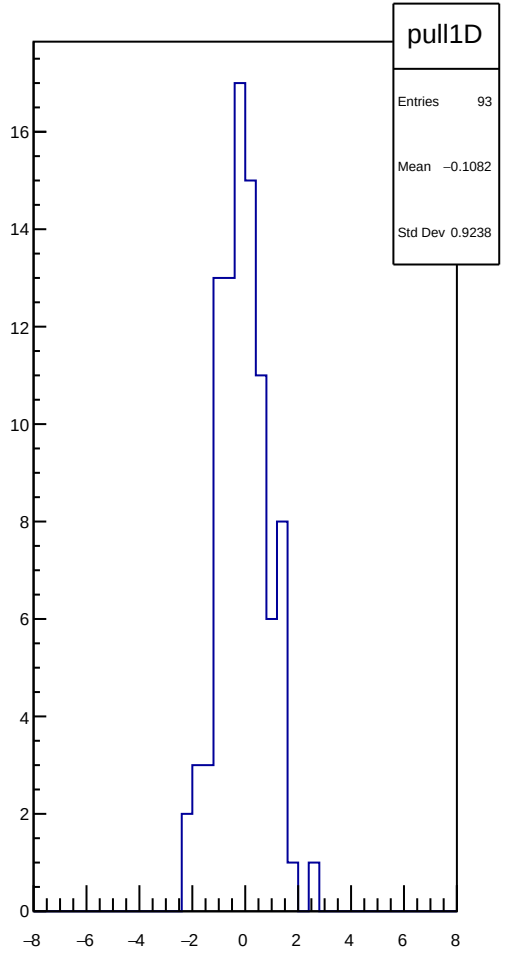

asym_sam_2468_avg_eigen_dit_correction_rms vs run
χ² / ndf 5671 / 92
p0 2391 ± 1.76
2800
2700
2600
2500
2400
2300
2200
2100
2000

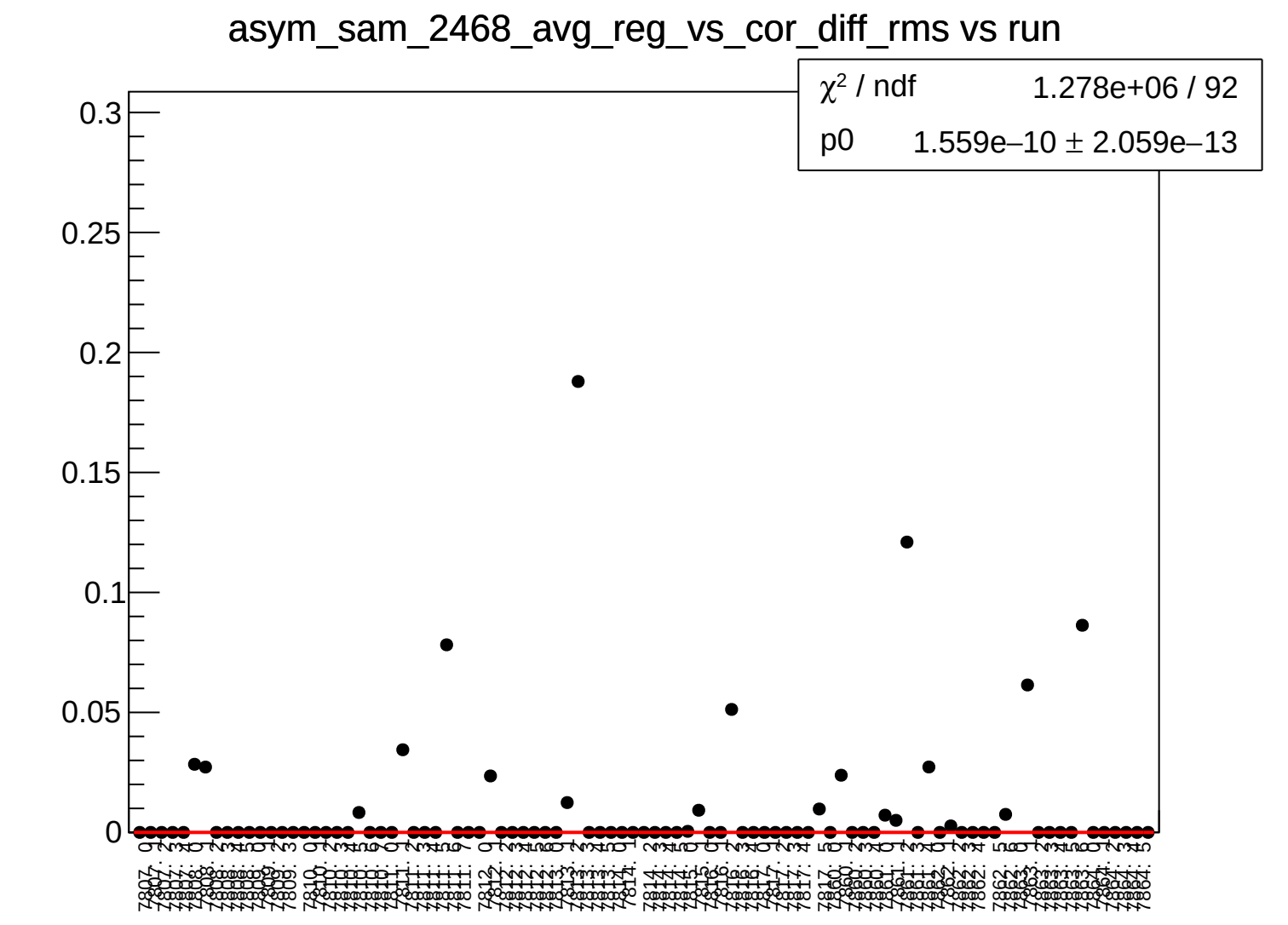

asym_sam_2468_avg_mean vs run
×10^3
χ² / ndf 82.84 / 92
p0 849.3 ± 2474
pull
Entries 93
Mean −38.01
Std Dev 0

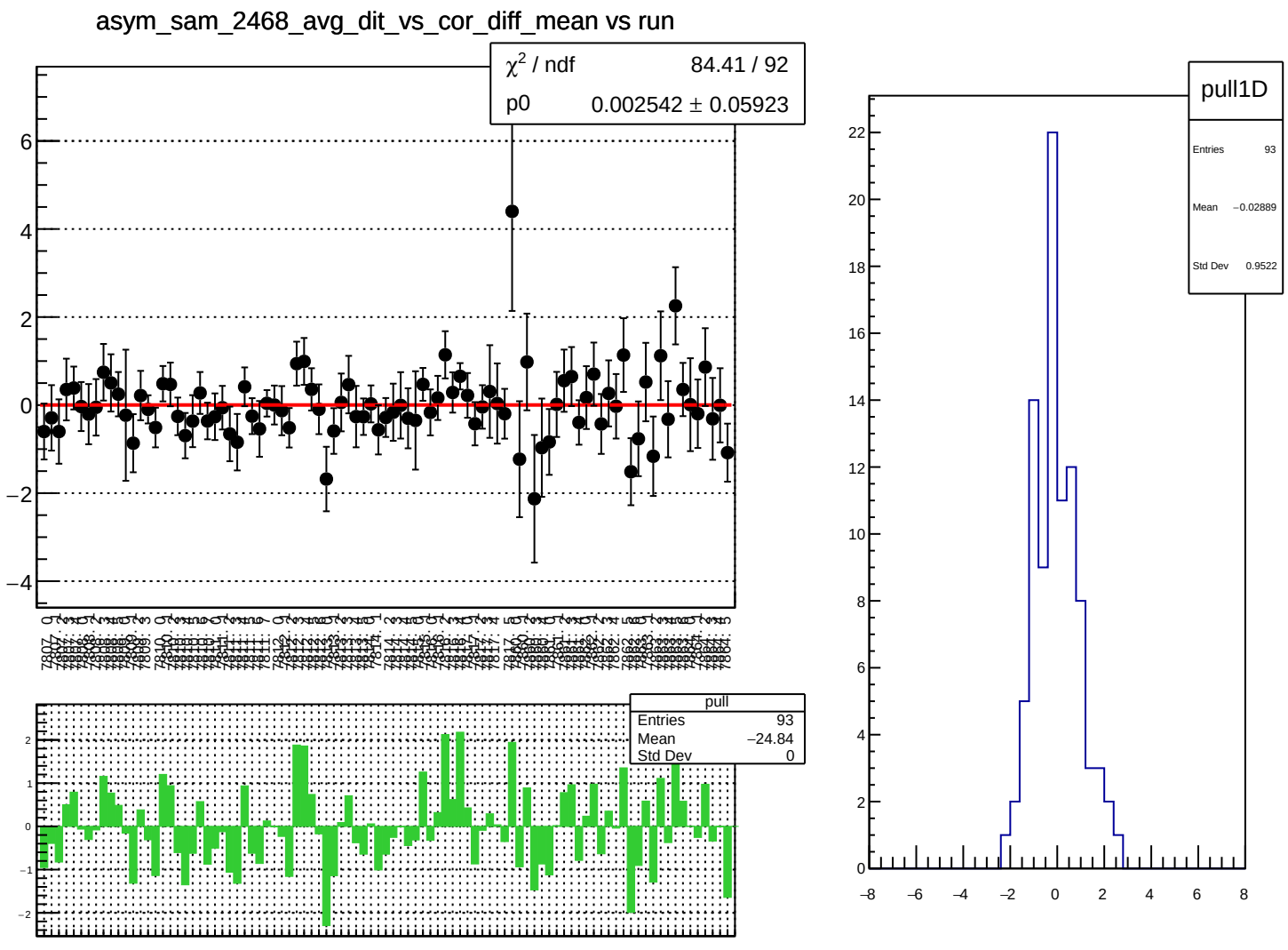

pull1D
Entries 93
Mean 0.01423
Std Dev 0.9437

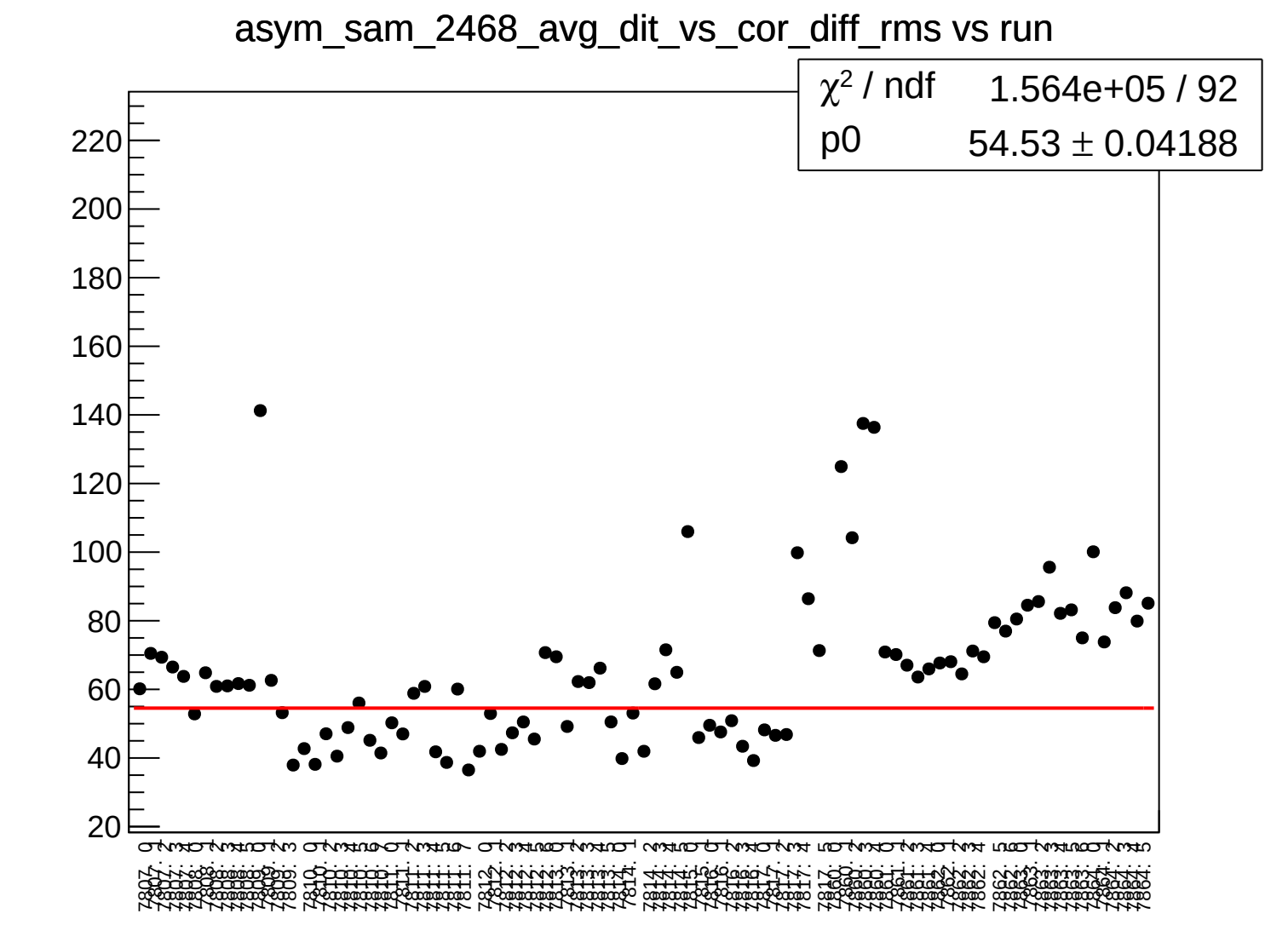

asym_sam_2468_avg_rms vs run
χ² / ndf 6549 / 92
p0 2376 ± 1.75
2800
2700
2600
2500
2400
2300
2200
2100
2000

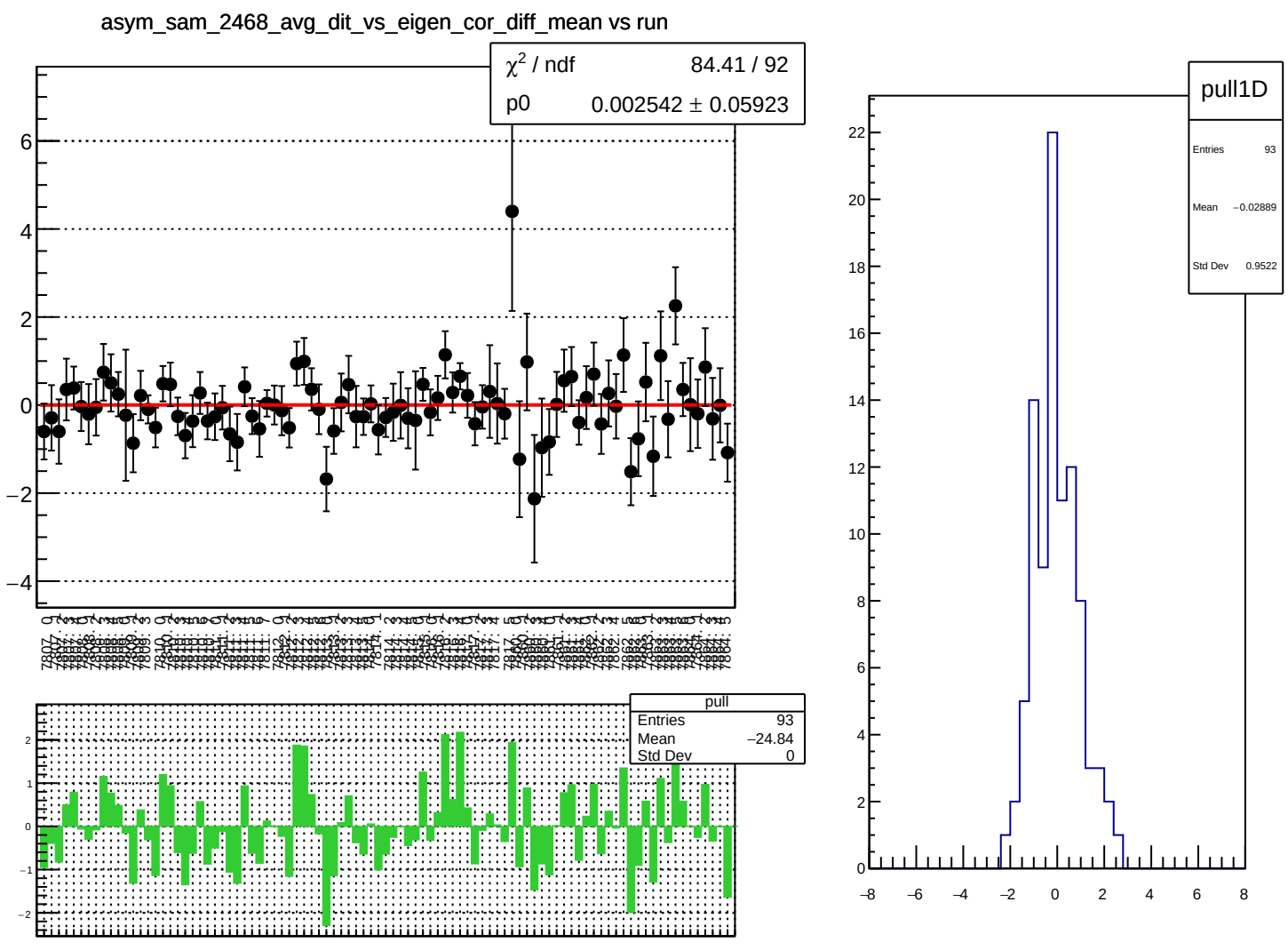

asym_sam_2468_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 80.46 / 92
p0 −4.827e−13 ± 2.912e−13
0.003
0.002
0.001
0
−0.001
−0.002
−0.003
−0.004
pull
Entries 93
Mean 71.92
Std Dev 34.42
2
1
0
−1
−2

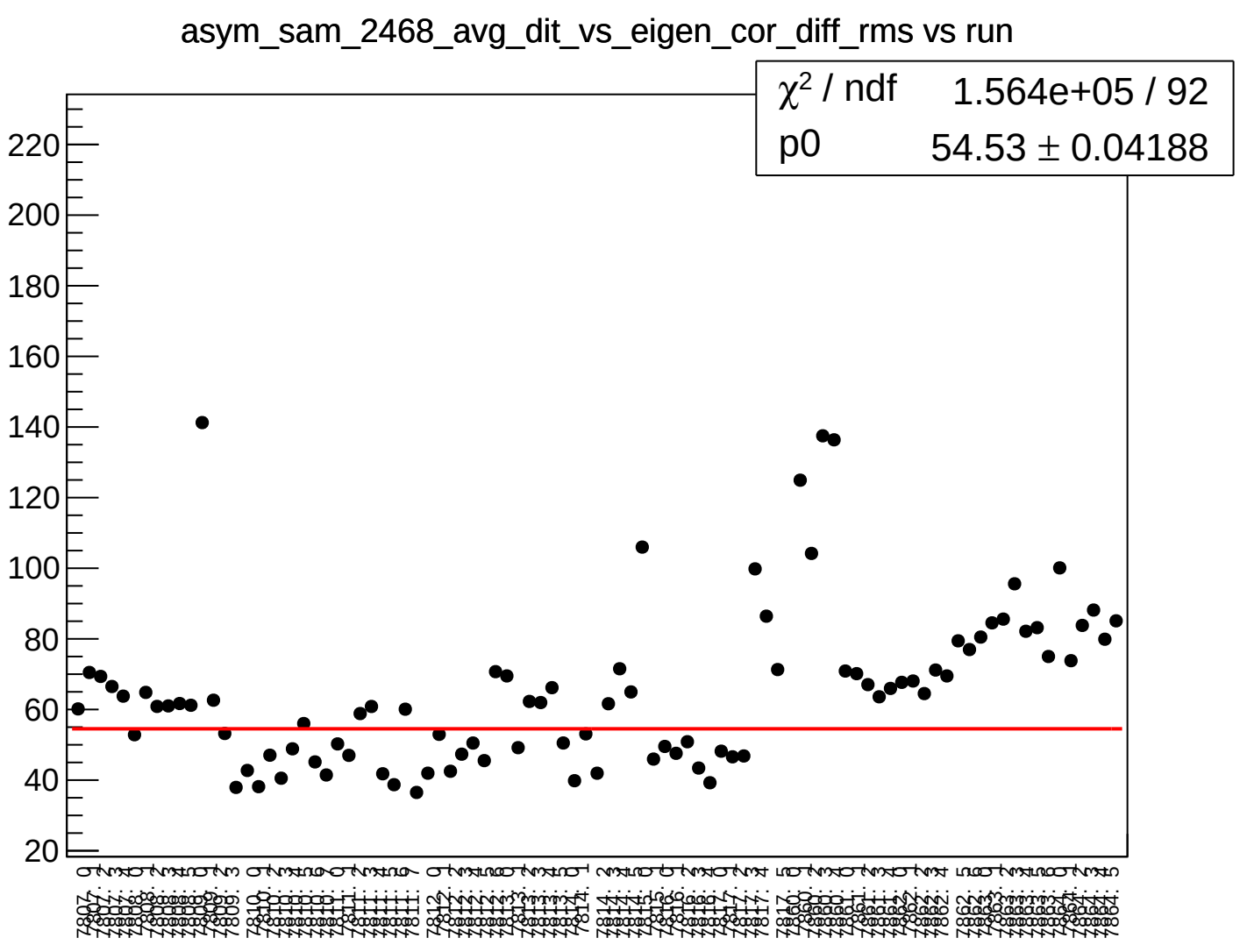

pull1D
Entries 93
Mean −0.1082
Std Dev 0.9238
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

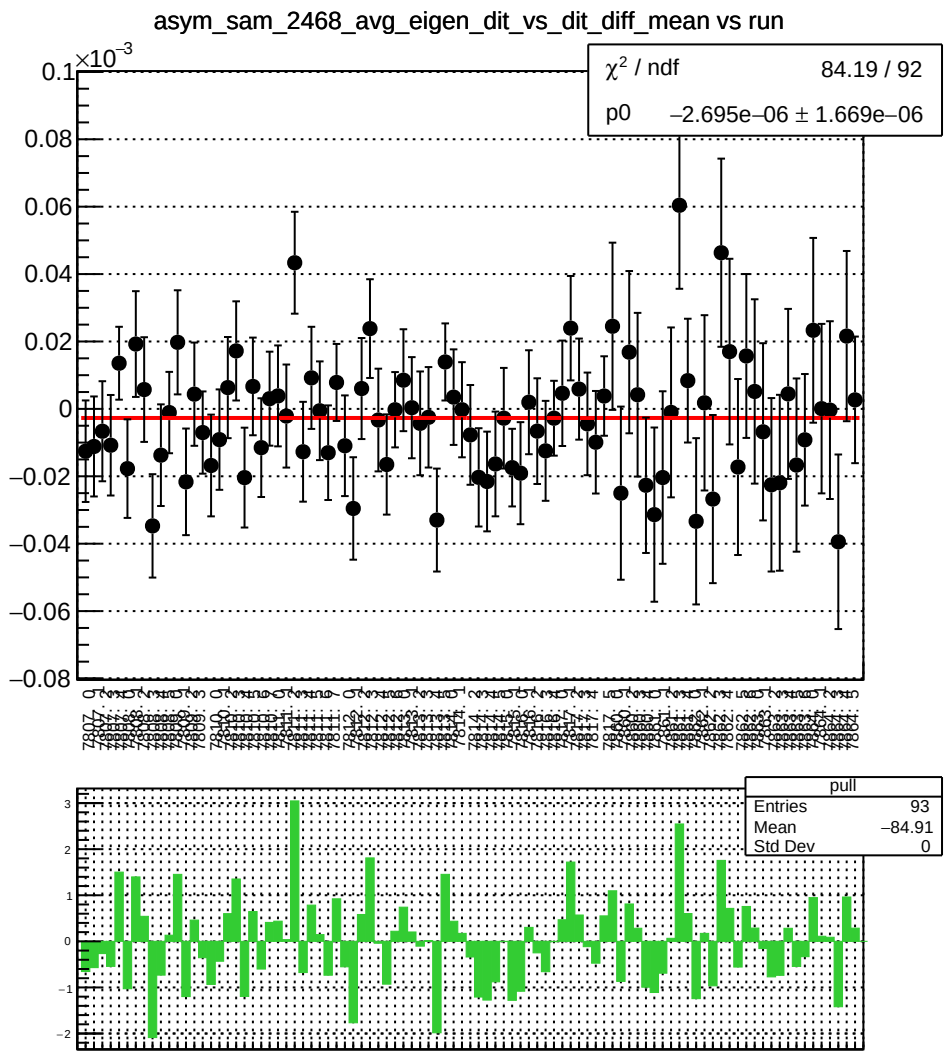

asym_sam_2468_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.278e+06 / 92
p0 1.559e−10 ± 2.059e−13
0.3
0.25
0.2
0.15
0.1
0.05
0

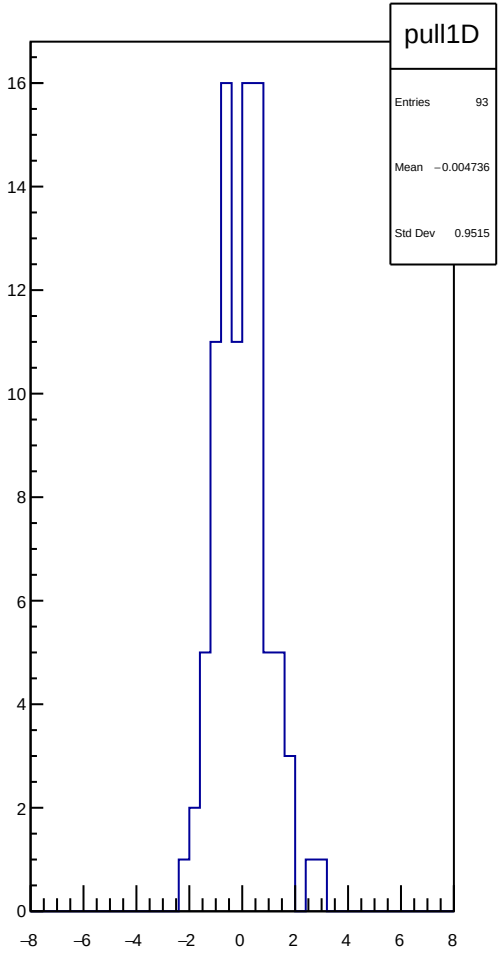

asym_sam_2468_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 84.41 / 92
p0 0.002542 ± 0.05923
pull
Entries 93
Mean −24.84
Std Dev 0
pull1D
Entries 93
Mean −0.02889
Std Dev 0.9522

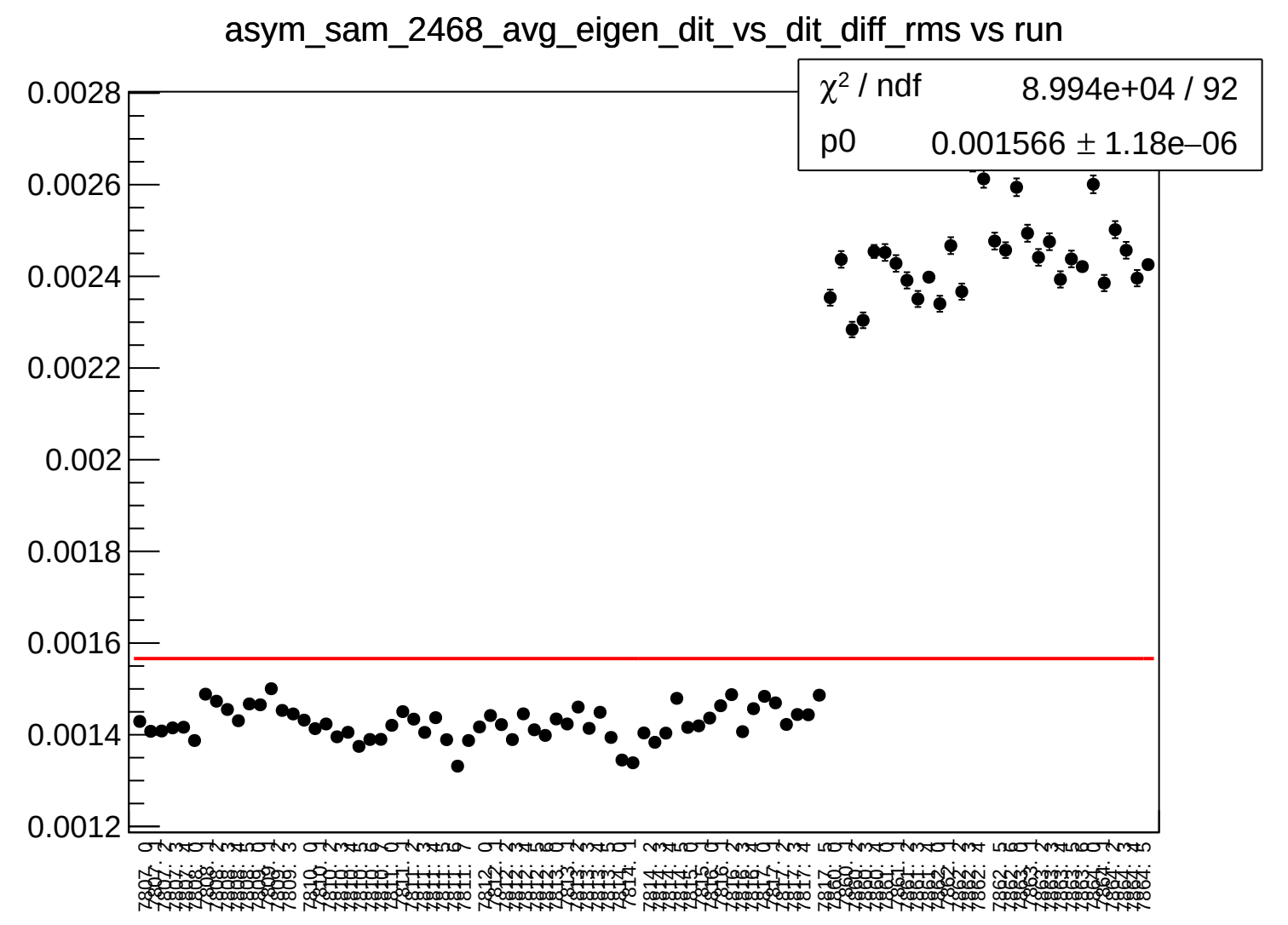

asym_sam_2468_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.564e+05 / 92
p0 54.53 ± 0.04188
220
200
180
160
140
120
100
80
60
40
20

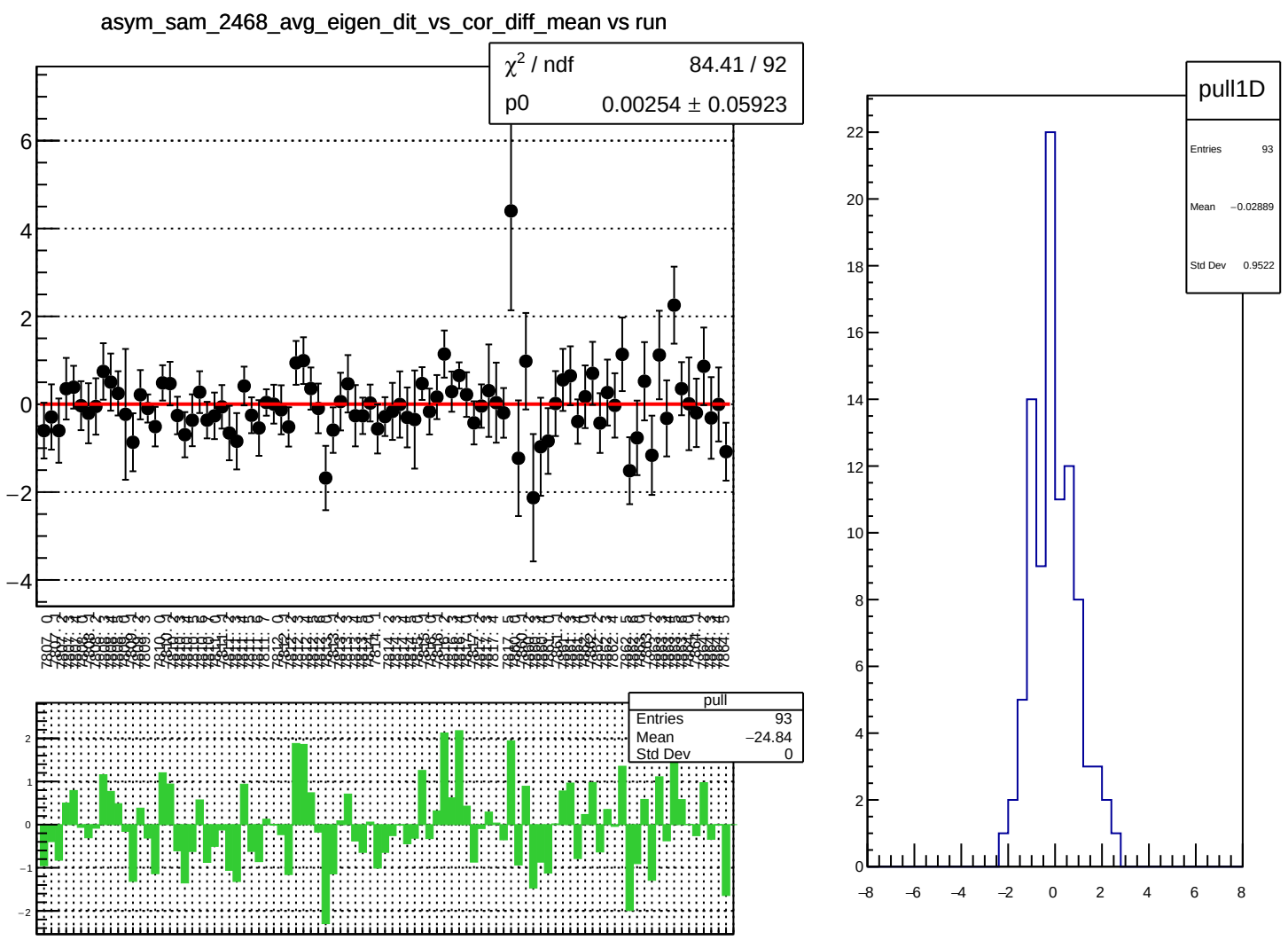

asym_sam_2468_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.41 / 92
p0 0.002542 ± 0.05923
pull
Entries 93
Mean −24.84
Std Dev 0
pull1D
Entries 93
Mean −0.02889
Std Dev 0.9522

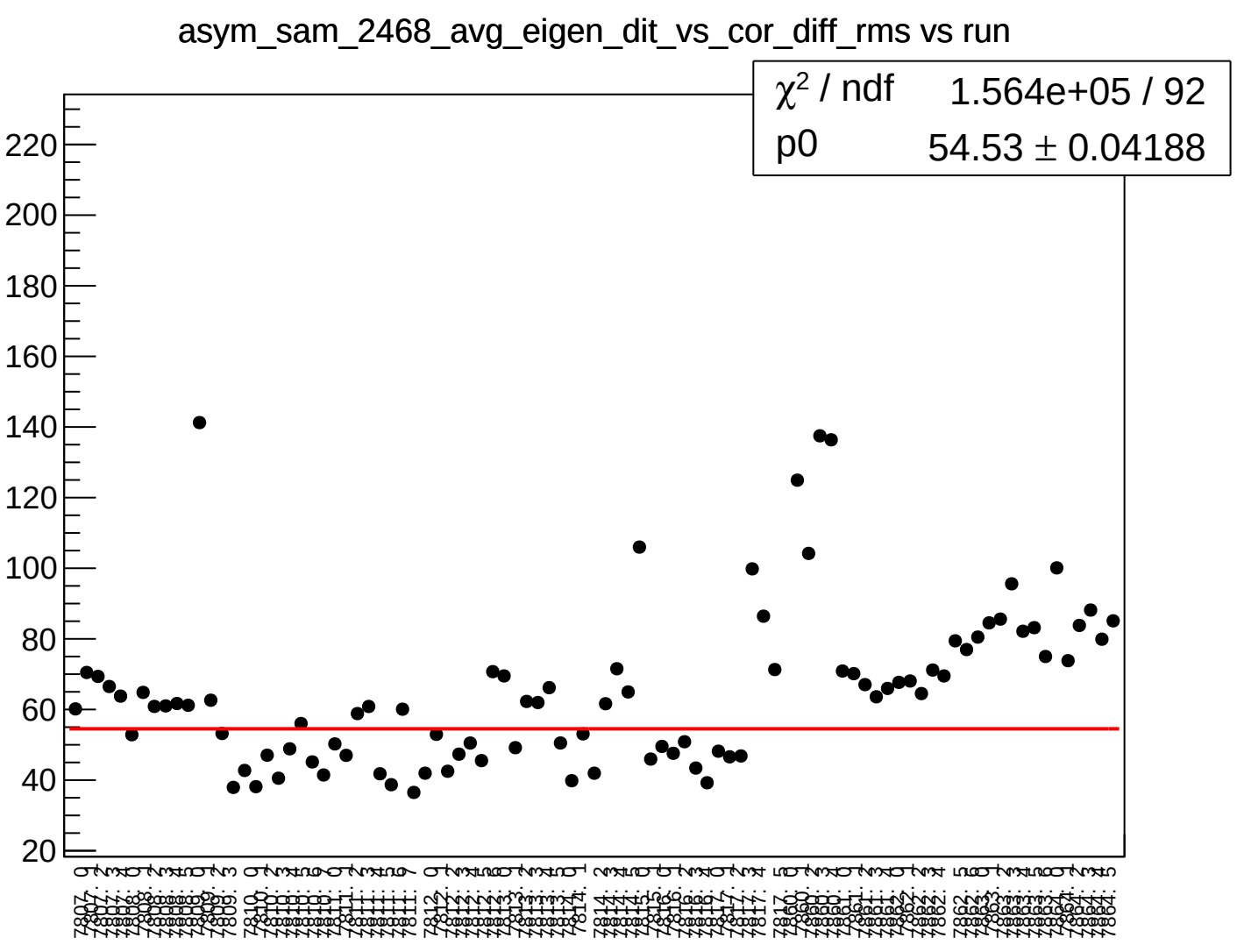

asym_sam_2468_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.564e+05 / 92
p0 54.53 ± 0.04188
220
200
180
160
140
120
100
80
60
40
20

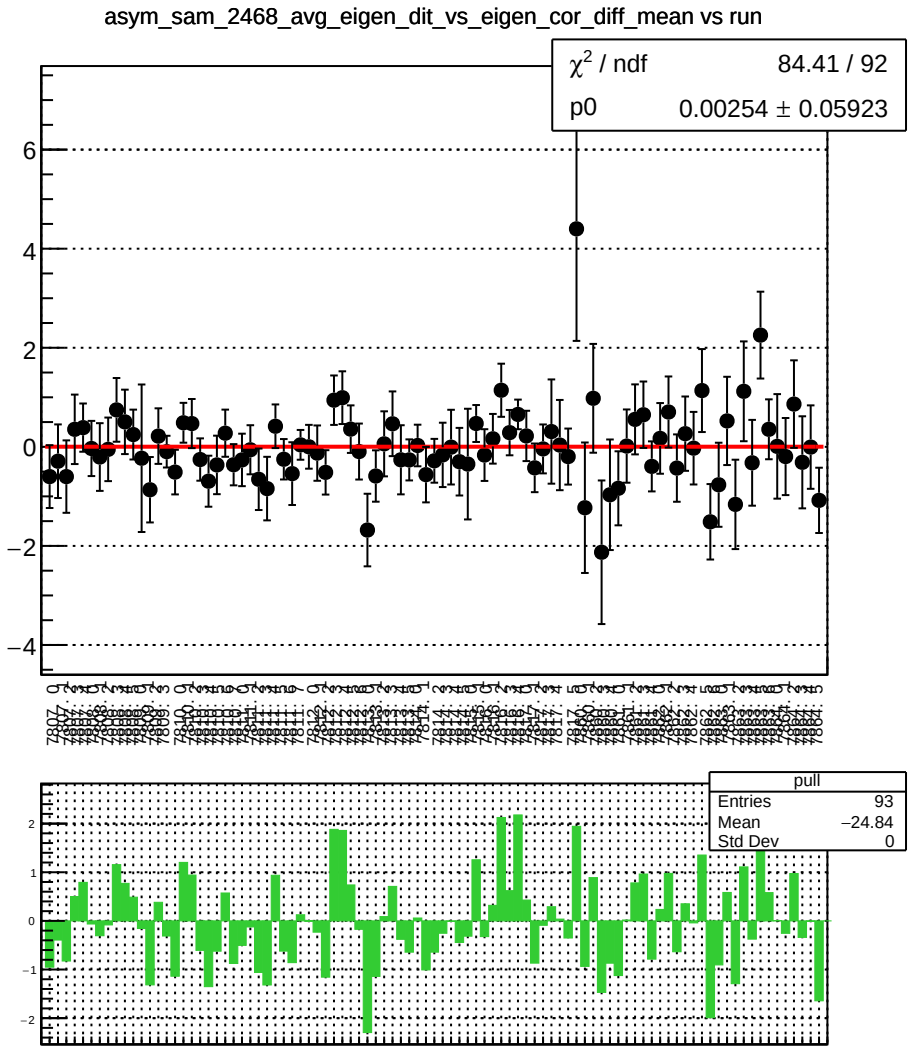

asym_sam_2468_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 84.19 / 92
p0 −2.695e−06 ± 1.669e−06
×10⁻³
pull
Entries 93
Mean −84.91
Std Dev 0

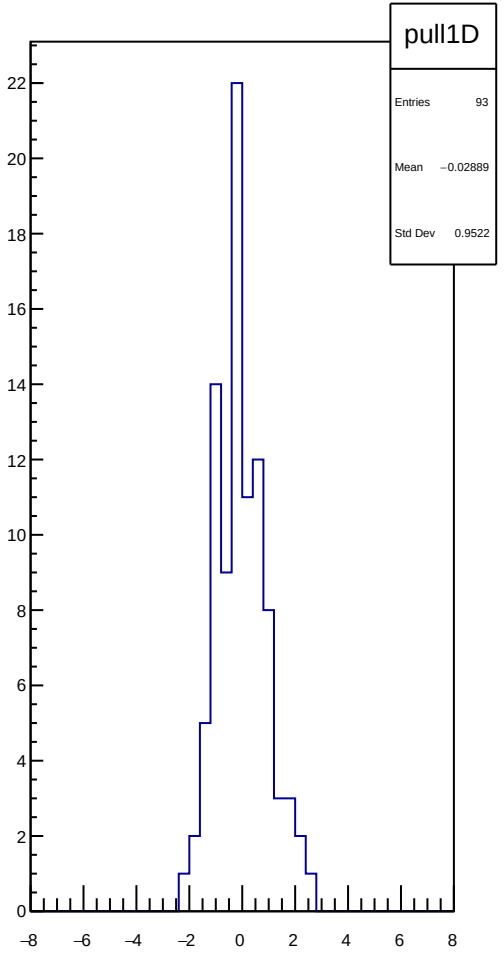

pull1D
Entries 93
Mean −0.004736
Std Dev 0.9515

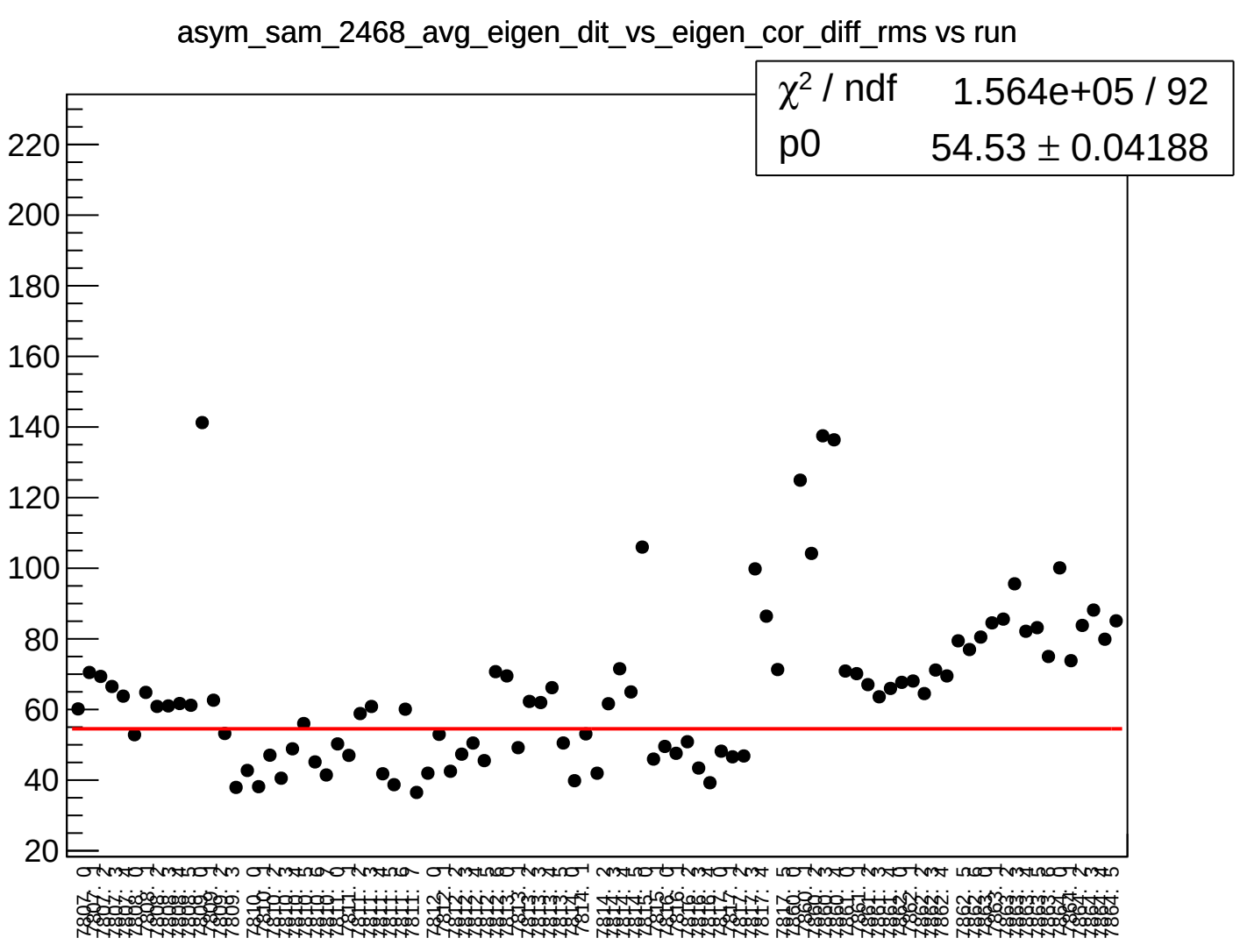

asym_sam_2468_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.994e+04 / 92
p0 0.001566 ± 1.18e−06
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012

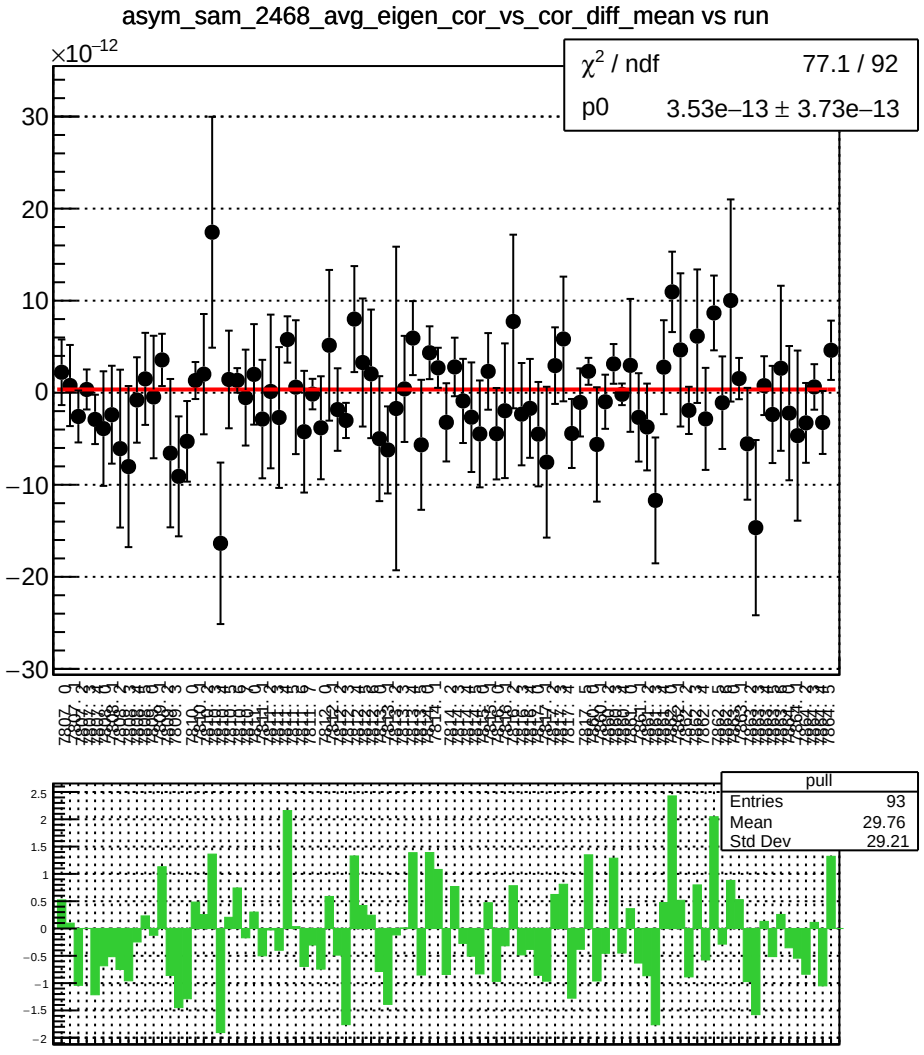

asym_sam_2468_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.41 / 92
p0 0.00254 ± 0.05923
pull
Entries 93
Mean −24.84
Std Dev 0
pull1D
Entries 93
Mean −0.02889
Std Dev 0.9522

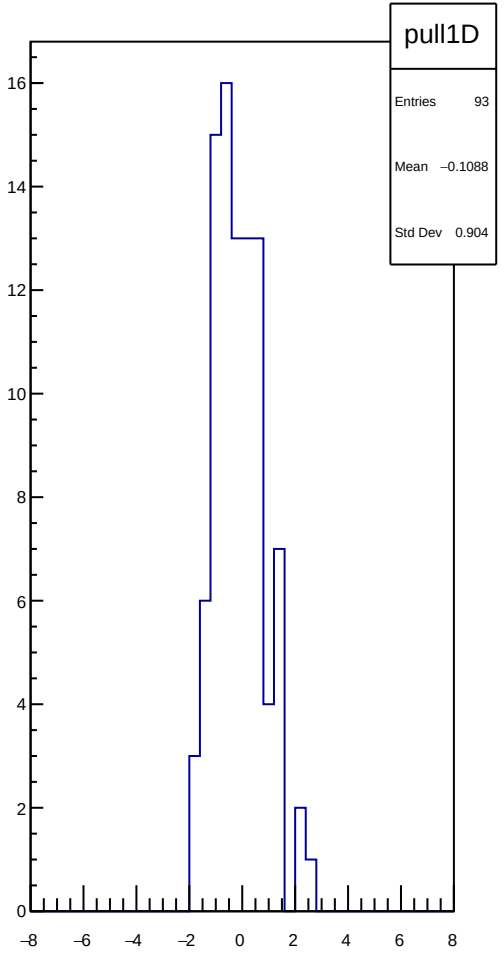

asym_sam_2468_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.564e+05 / 92
p0 54.53 ± 0.04188
220
200
180
160
140
120
100
80
60
40
20

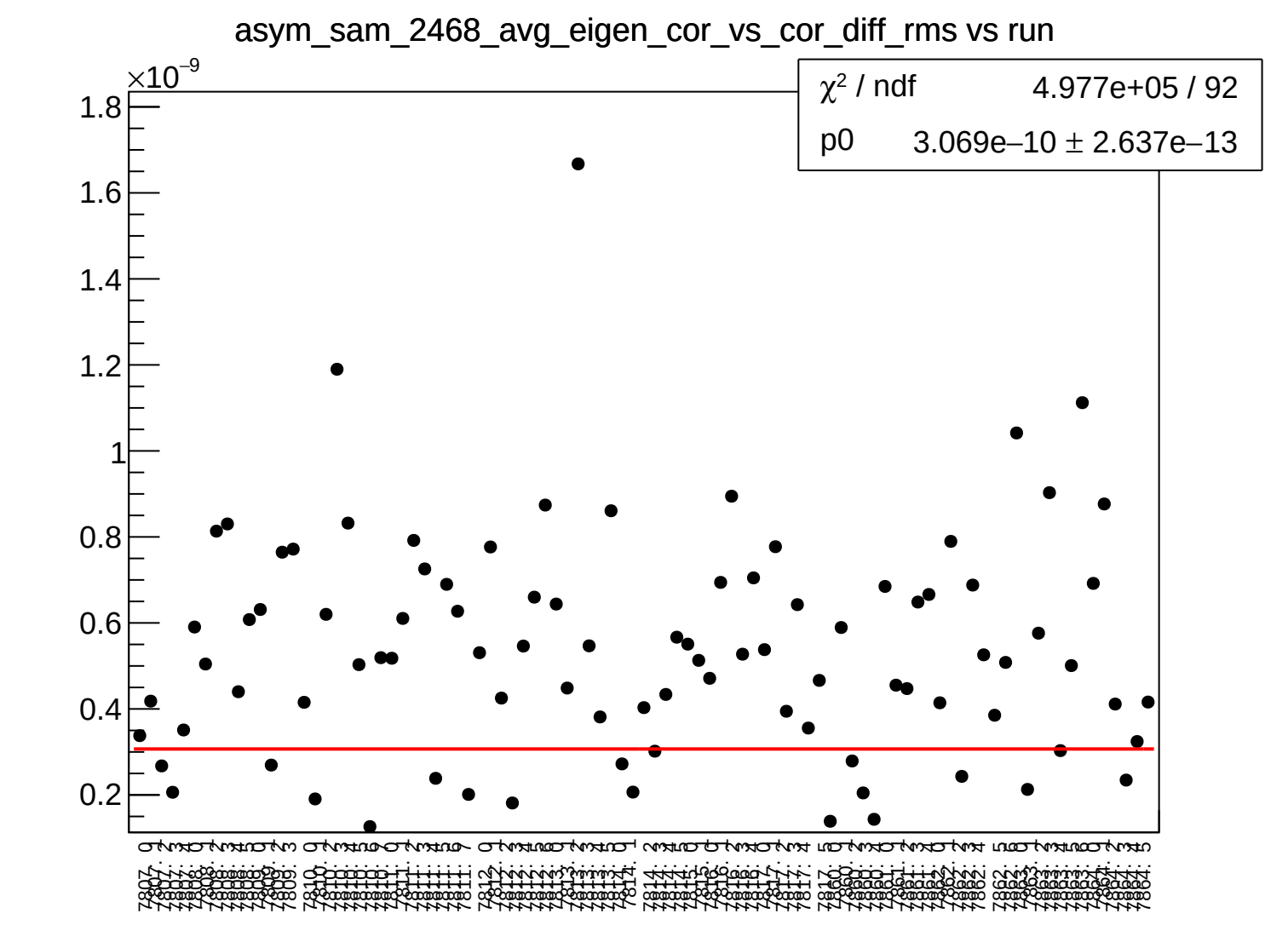

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.41 / 92
p0 0.00254 ± 0.05923
pull
Entries 93
Mean −24.84
Std Dev 0

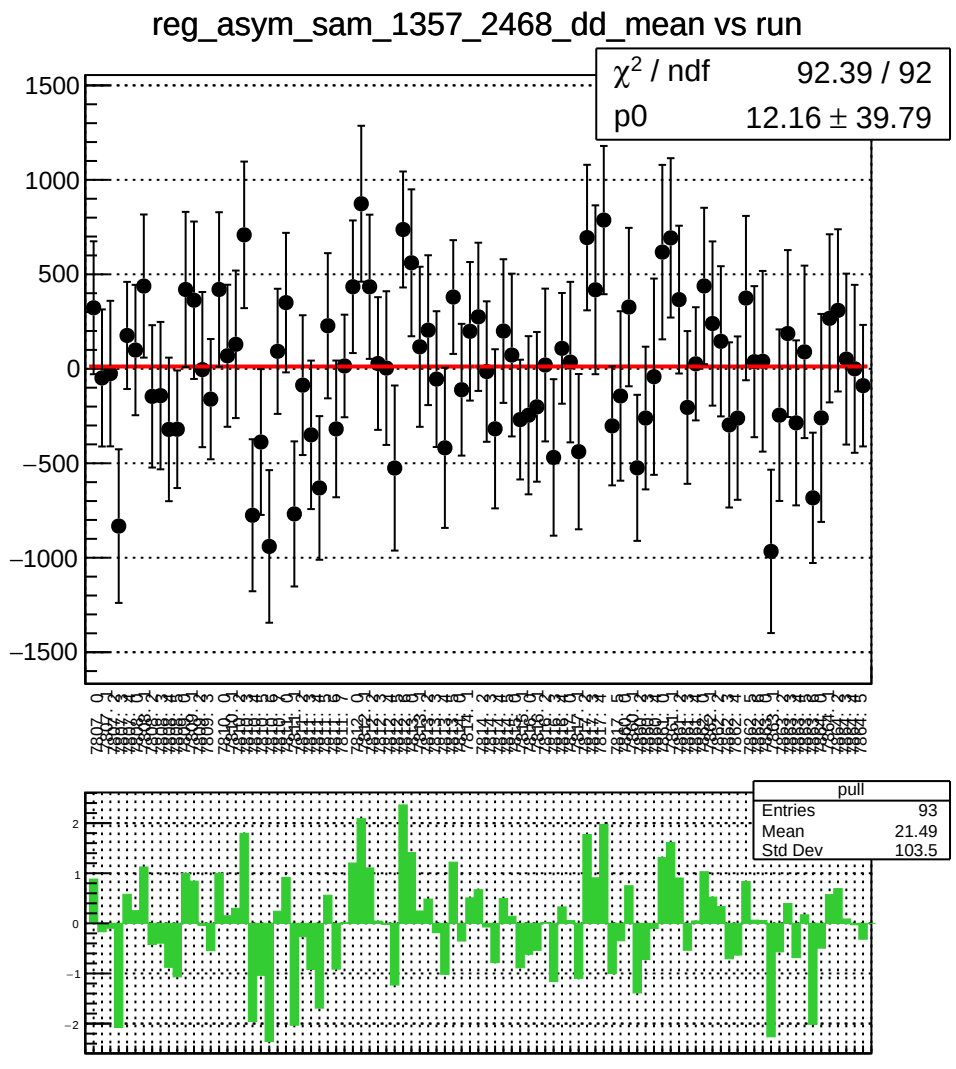

pull1D
Entries 93
Mean −0.02889
Std Dev 0.9522

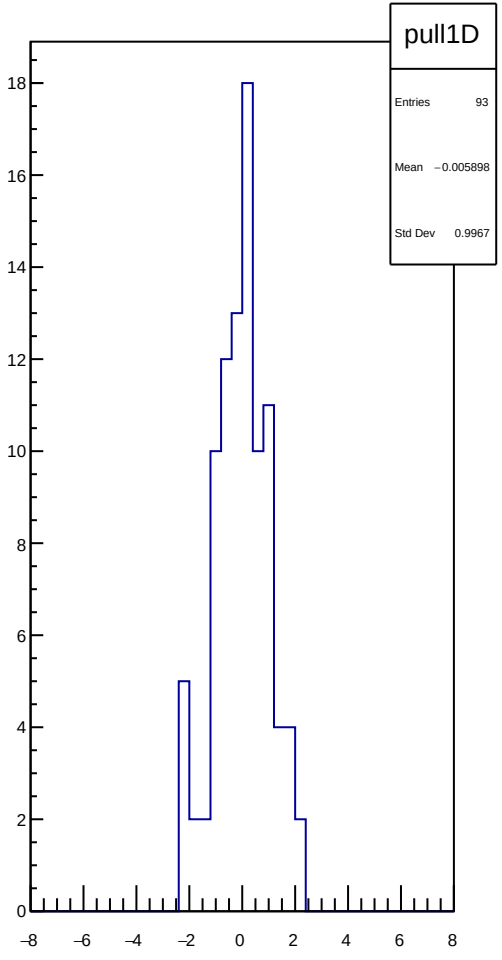

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.564e+05 / 92
p0 54.53 ± 0.04188
220
200
180
160
140
120
100
80
60
40
20

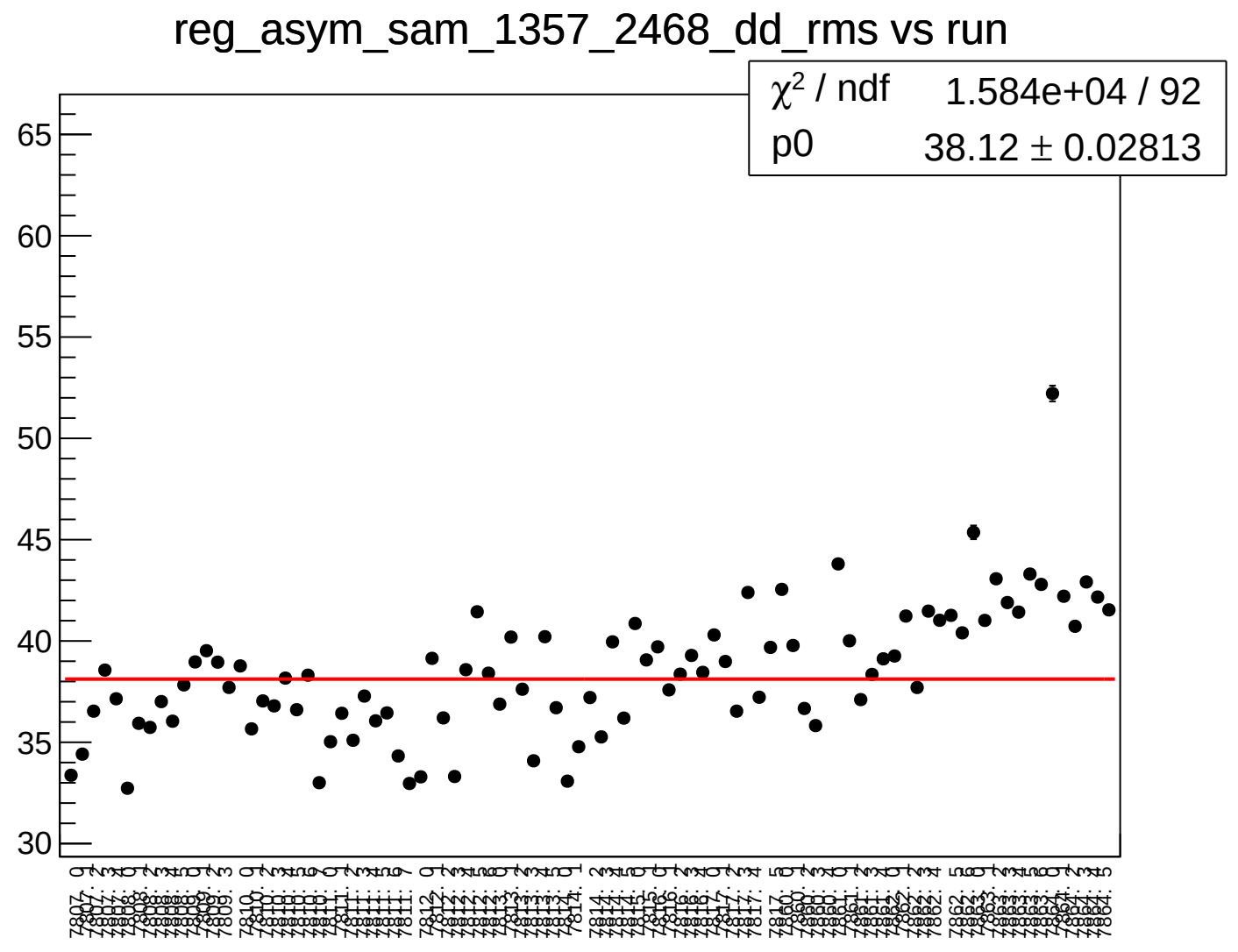

asym_sam_2468_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.1 / 92
p0 3.53e−13 ± 3.73e−13
30
20
10
0
−10
−20
−30
pull
Entries 93
Mean 29.76
Std Dev 29.21
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

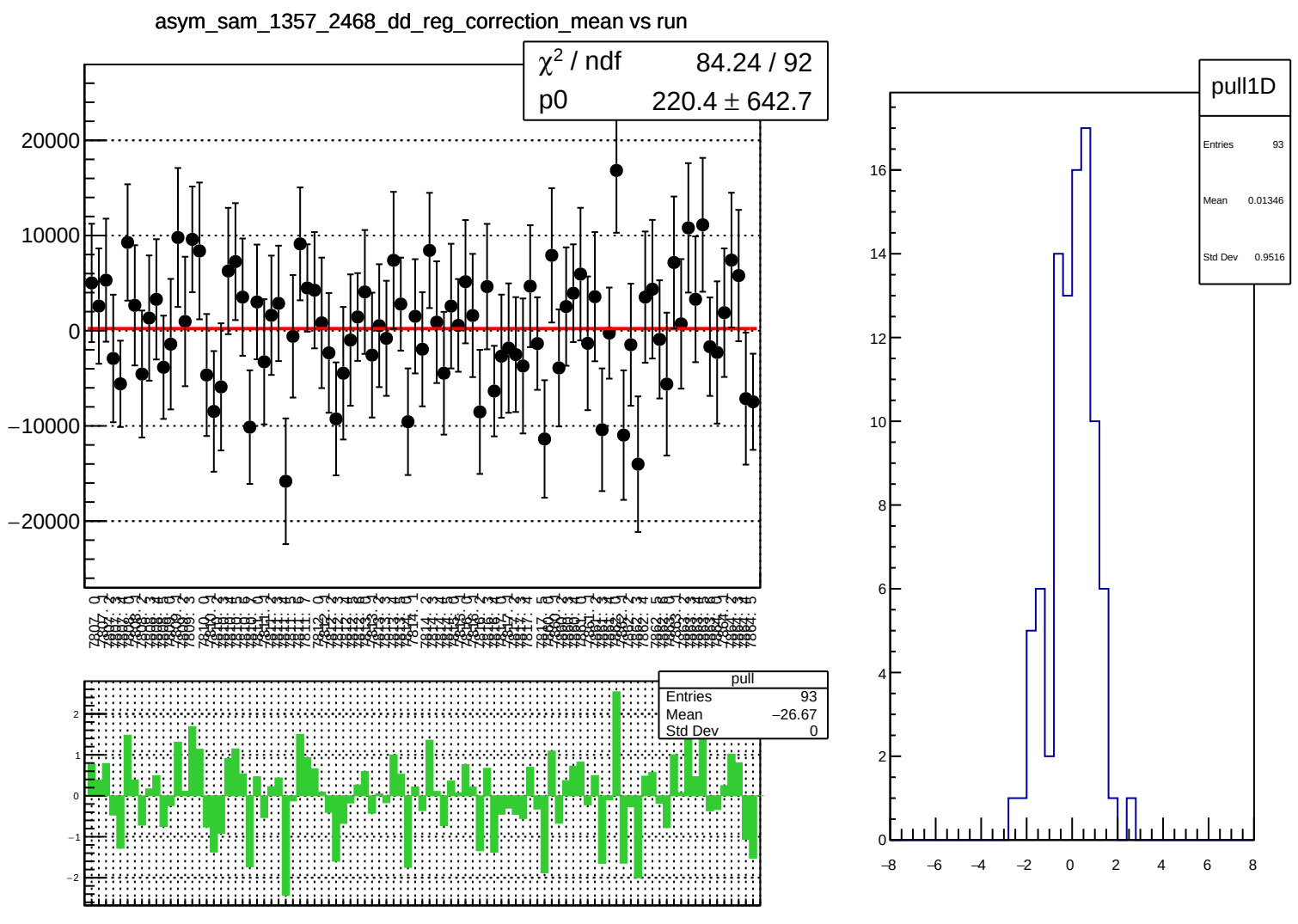

pull1D
Entries 93
Mean −0.1088
Std Dev 0.904
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

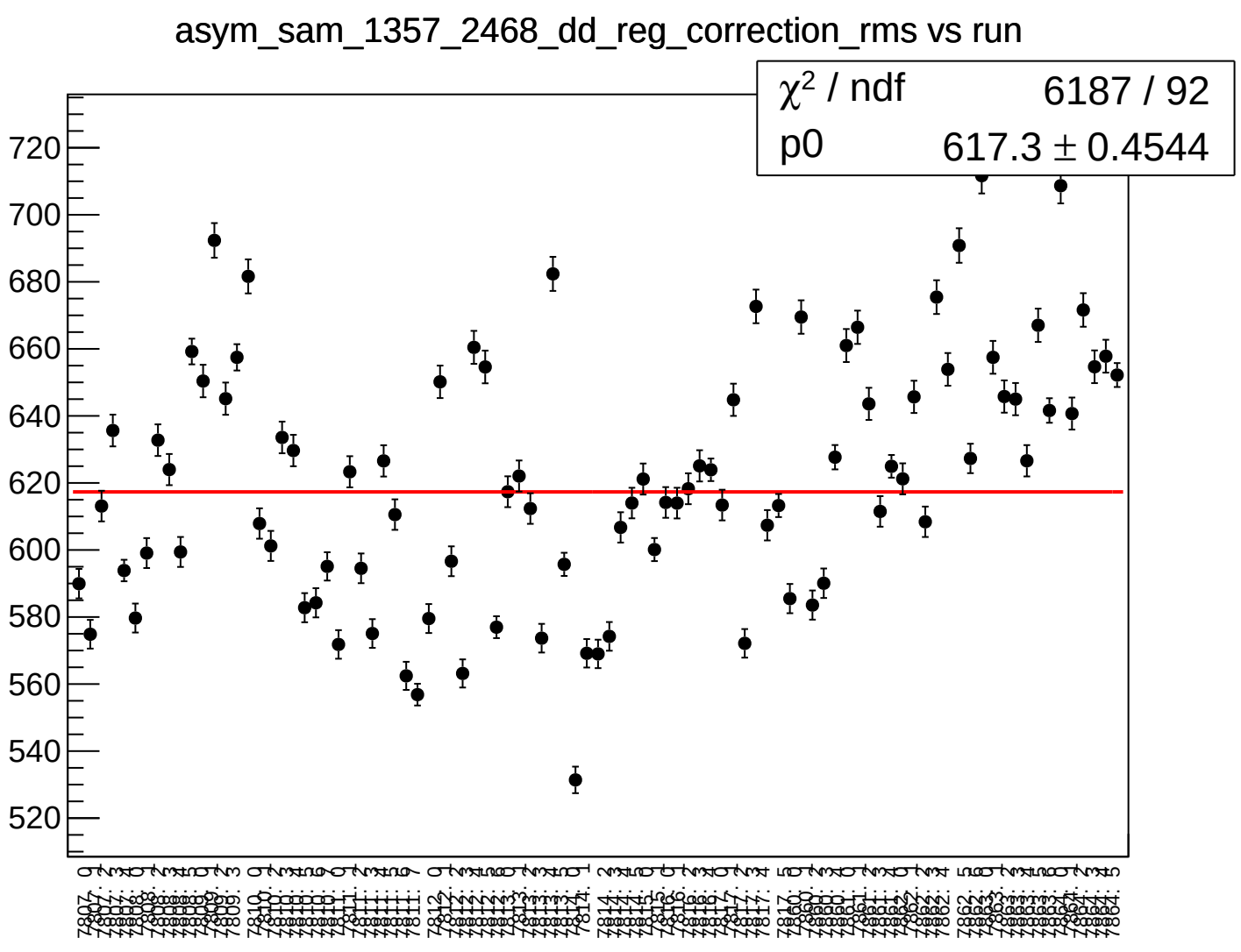

asym_sam_2468_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.977e+05 / 92
p0 3.069e−10 ± 2.637e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

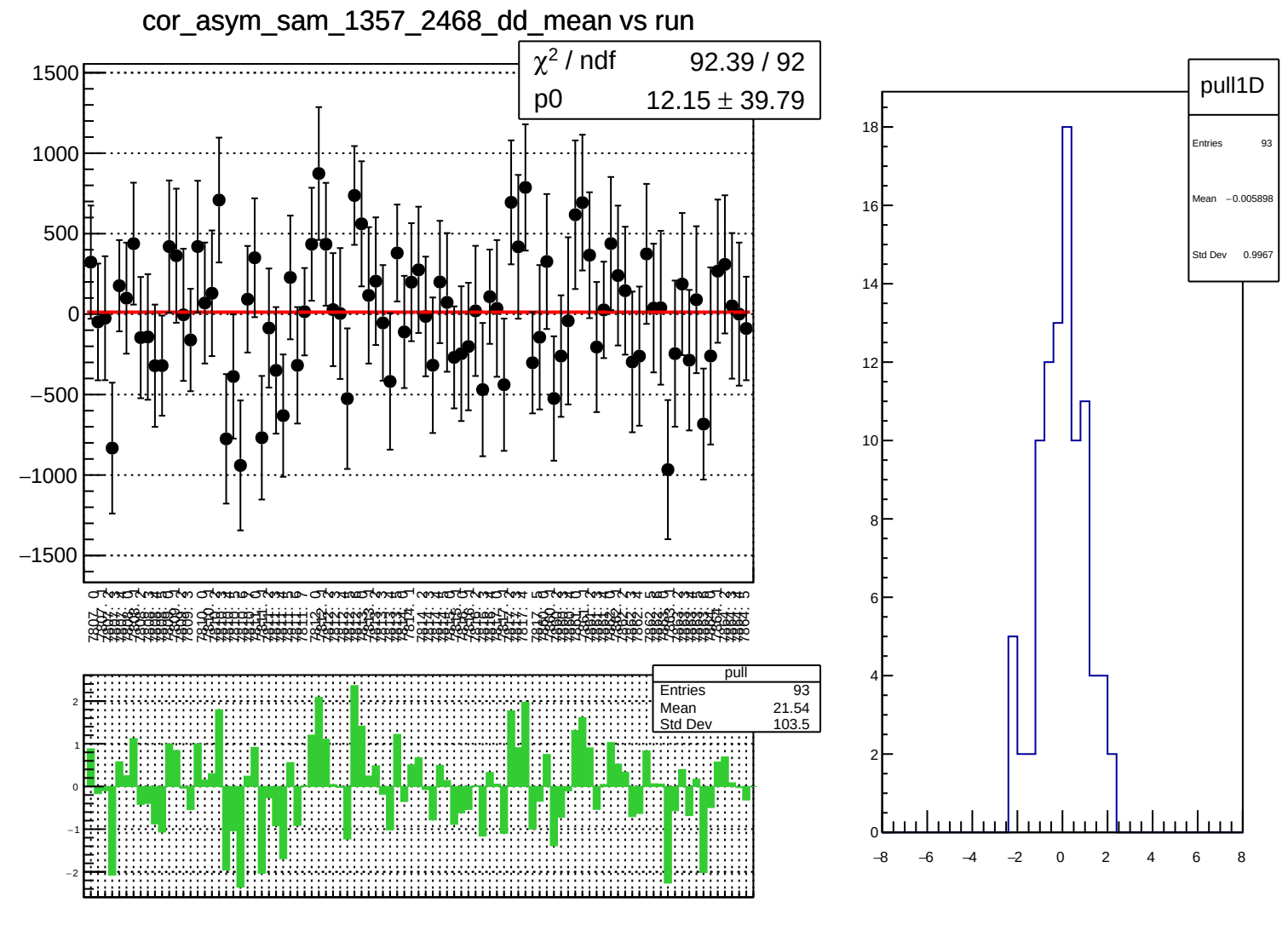

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 92.39 / 92
p0 12.16 ± 39.79
pull
Entries 93
Mean 21.49
Std Dev 103.5

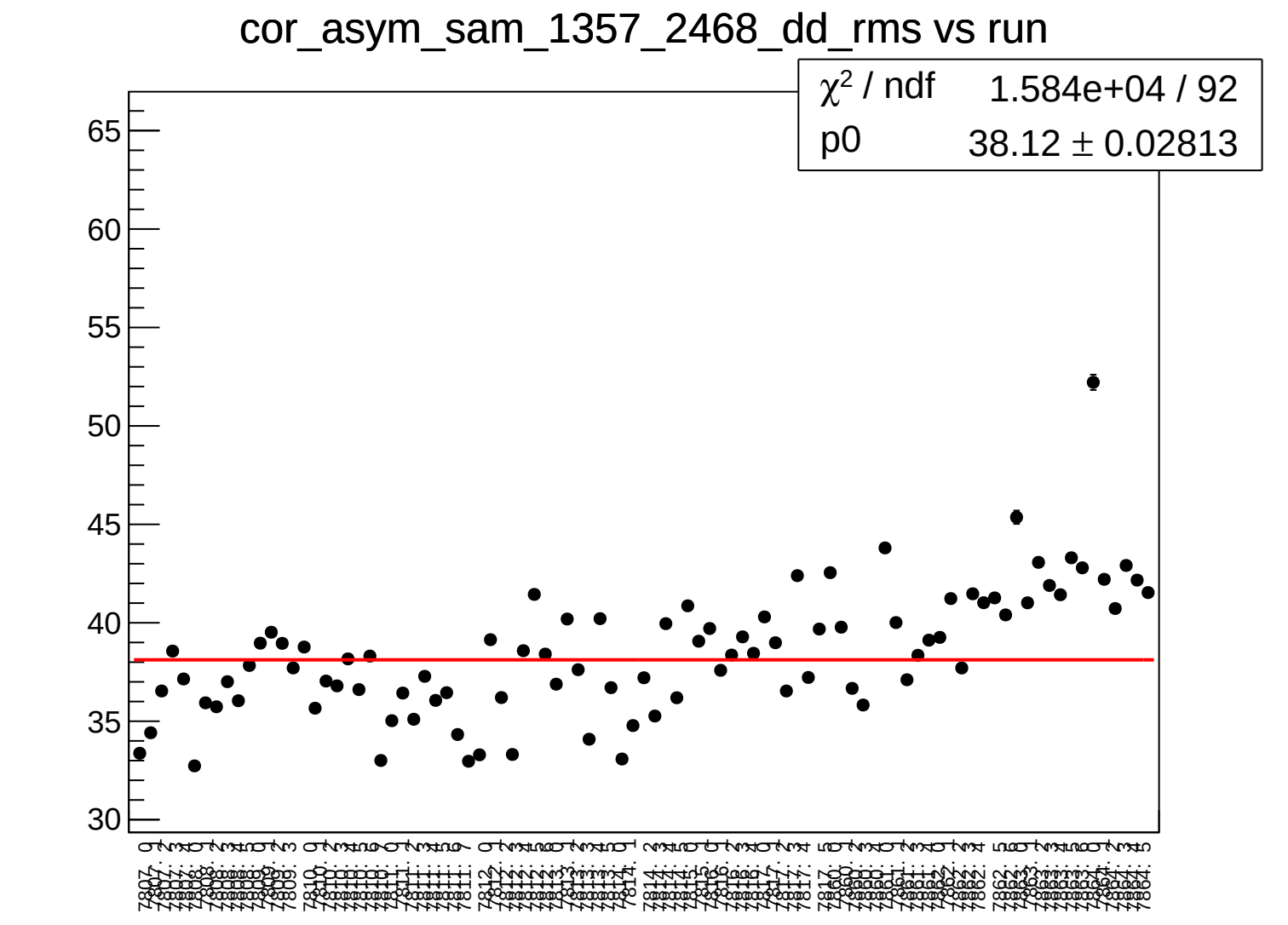

pull1D
Entries 93
Mean −0.005898
Std Dev 0.9967

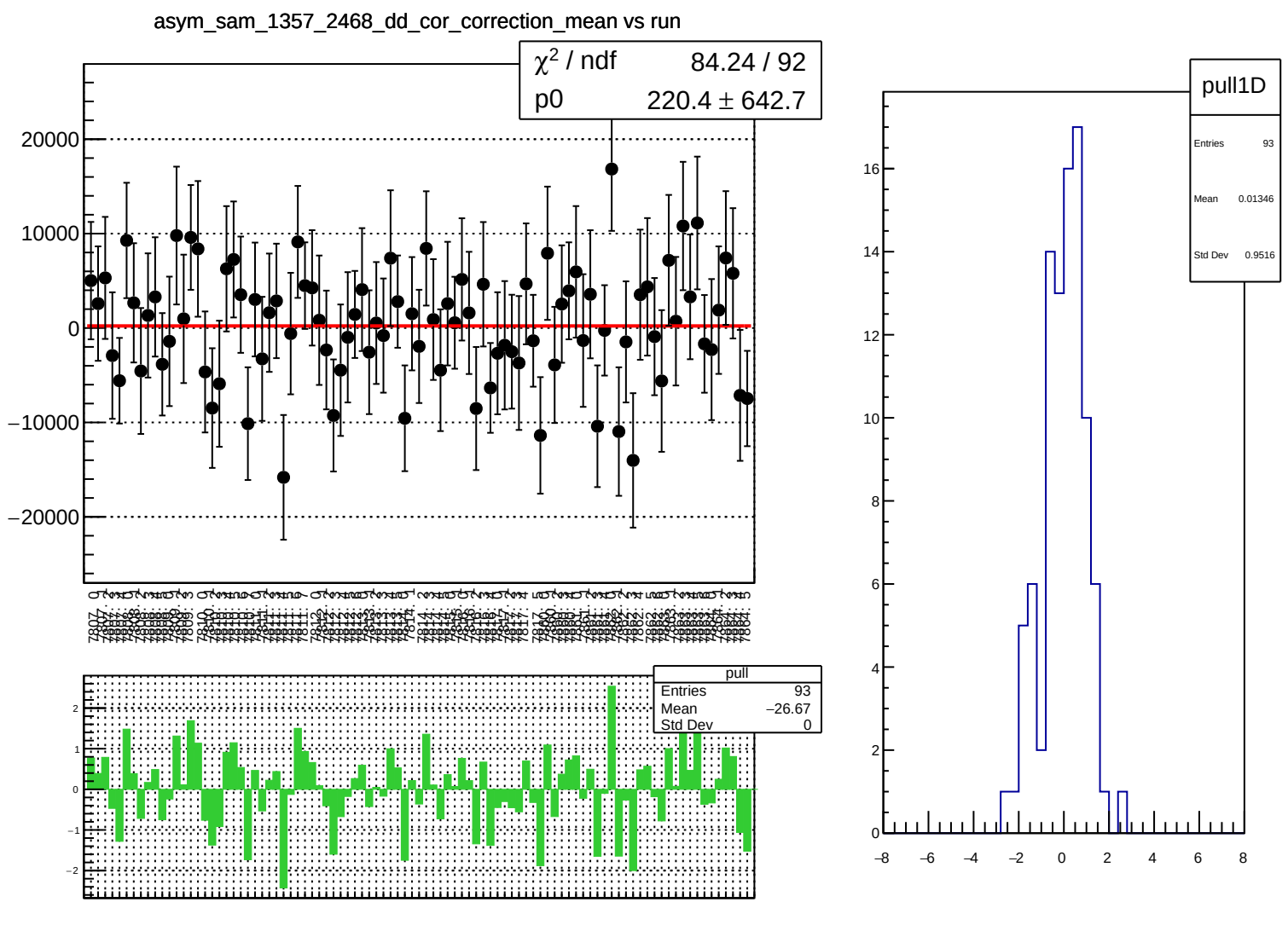

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.584e+04 / 92
p0 38.12 ± 0.02813
65
60
55
50
45
40
35
30

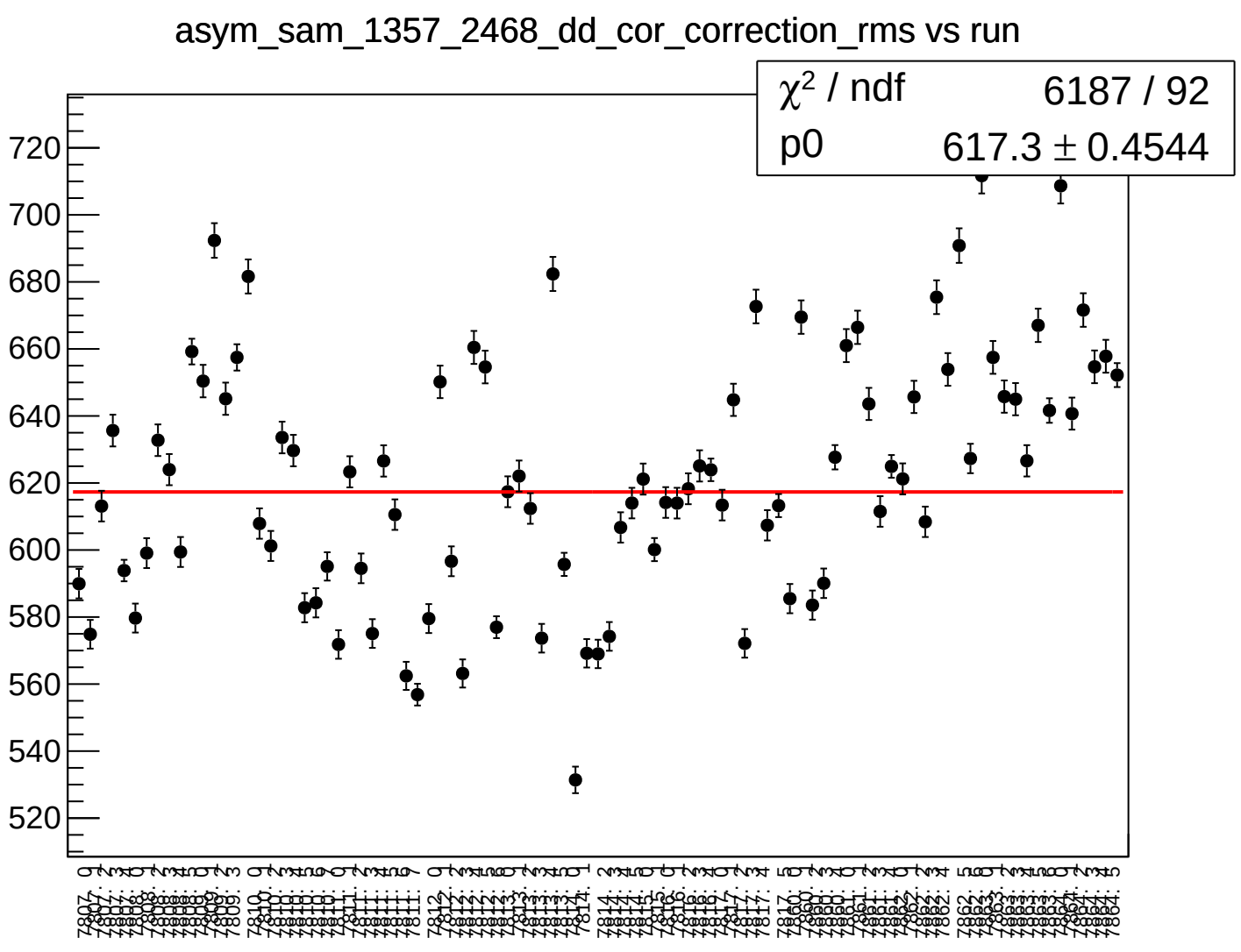

asym_sam_1357_2468_dd_reg_correction_mean vs run
χ² / ndf 84.24 / 92
p0 220.4 ± 642.7
20000
10000
0
−10000
−20000
pull
Entries 93
Mean −26.67
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.01346
Std Dev 0.9516
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

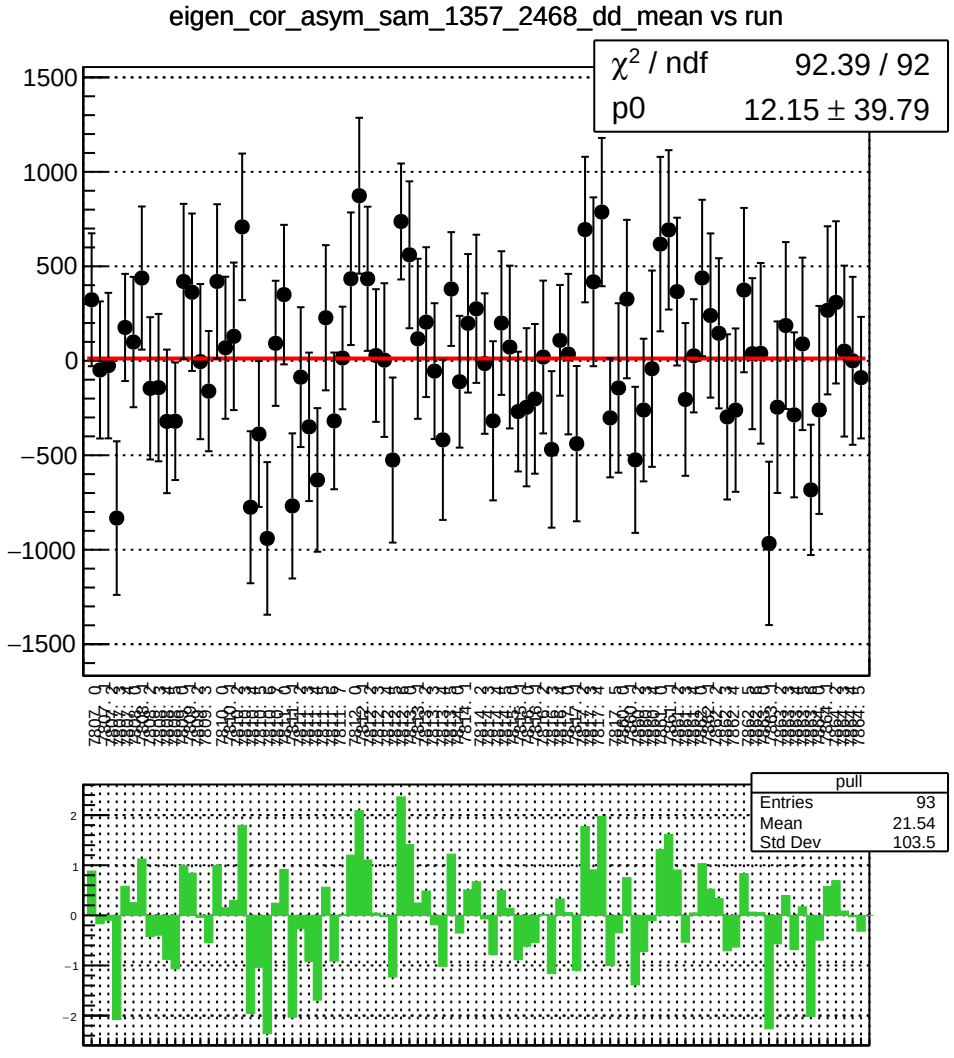

asym_sam_1357_2468_dd_reg_correction_rms vs run
χ² / ndf 6187 / 92
p0 617.3 ± 0.4544
720
700
680
660
640
620
600
580
560
540
520

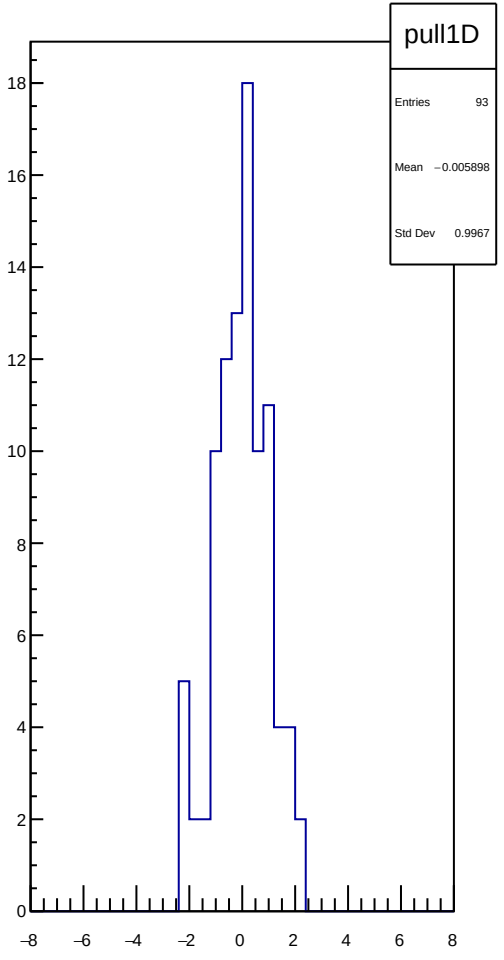

cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 92.39 / 92
p0 12.15 ± 39.79
pull
Entries 93
Mean 21.54
Std Dev 103.5
pull1D
Entries 93
Mean −0.005898
Std Dev 0.9967

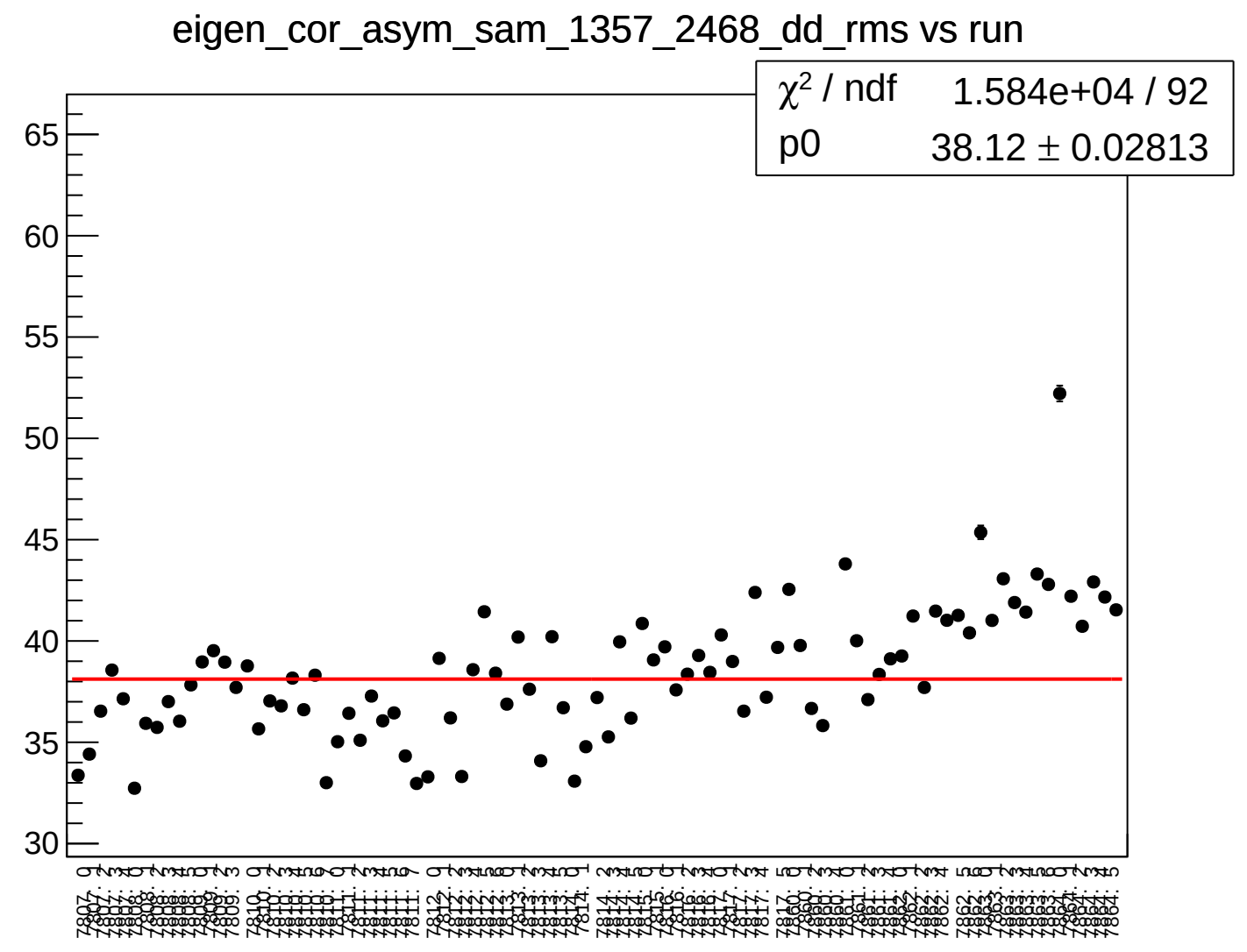

cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.584e+04 / 92
p0 38.12 ± 0.02813
65
60
55
50
45
40
35
30

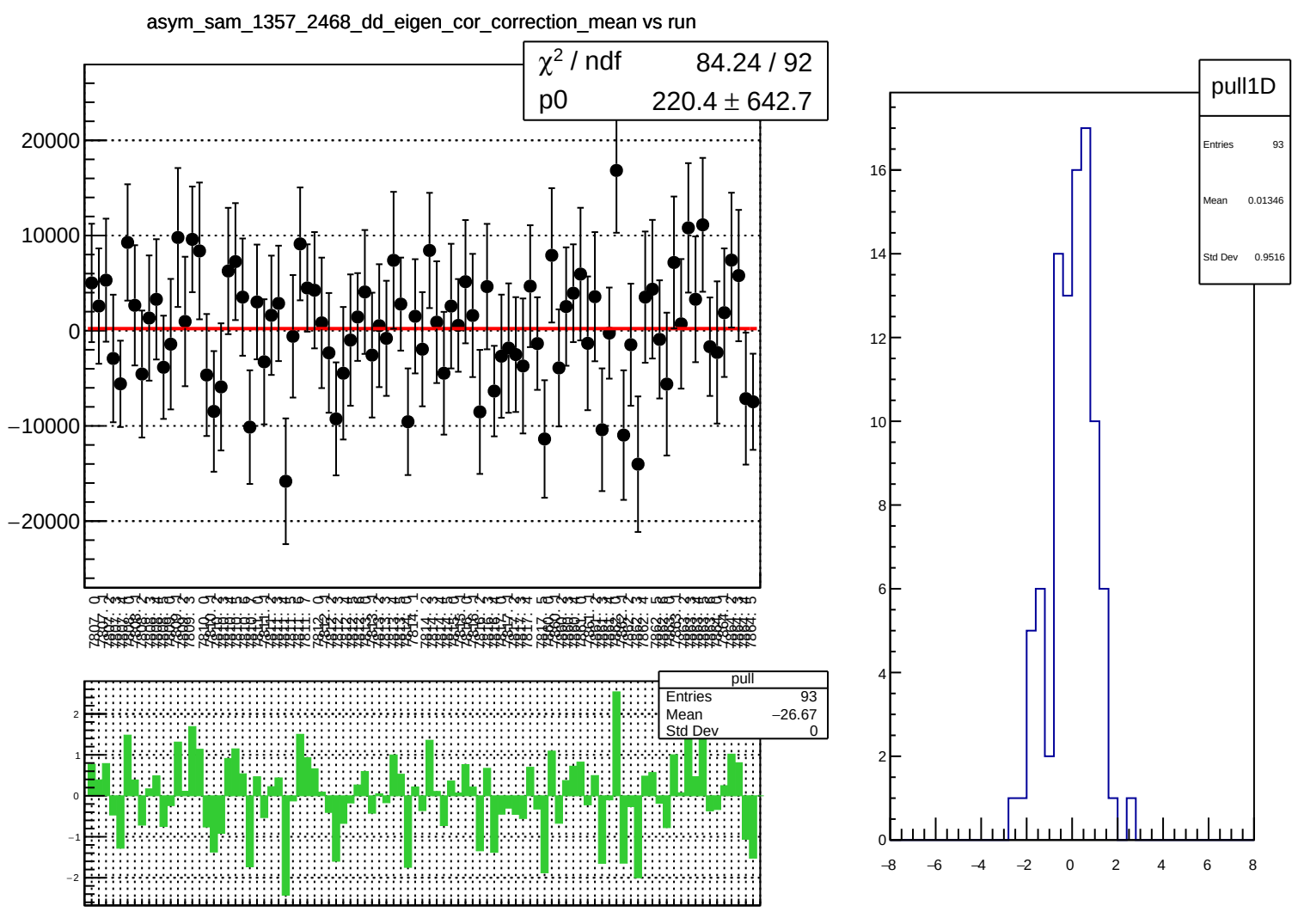

asym_sam_1357_2468_dd_cor_correction_mean vs run
χ² / ndf 84.24 / 92
p0 220.4 ± 642.7
20000
10000
0
−10000
−20000
pull
Entries 93
Mean −26.67
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.01346
Std Dev 0.9516
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

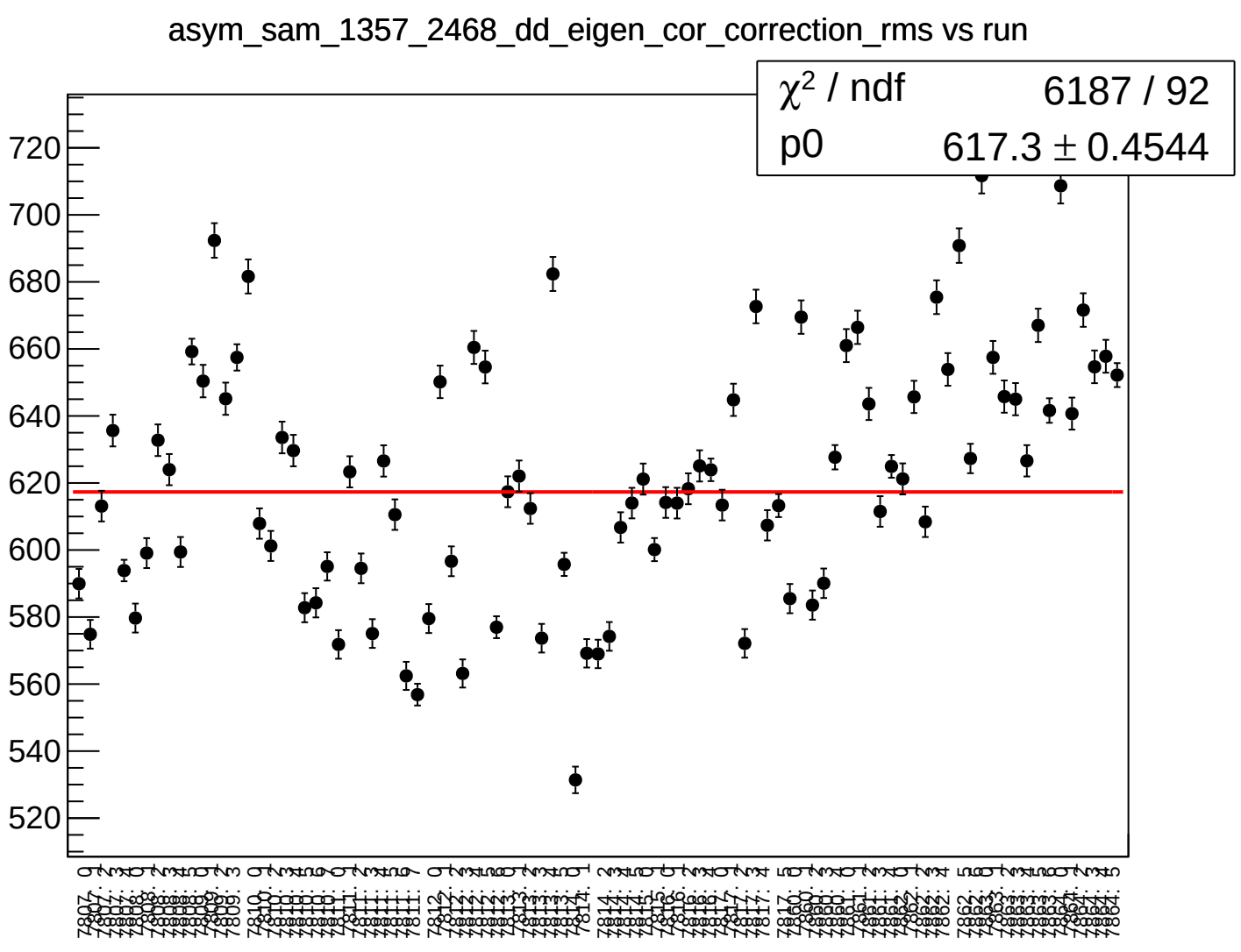

asym_sam_1357_2468_dd_cor_correction_rms vs run
χ² / ndf 6187 / 92
p0 617.3 ± 0.4544
720
700
680
660
640
620
600
580
560
540
520

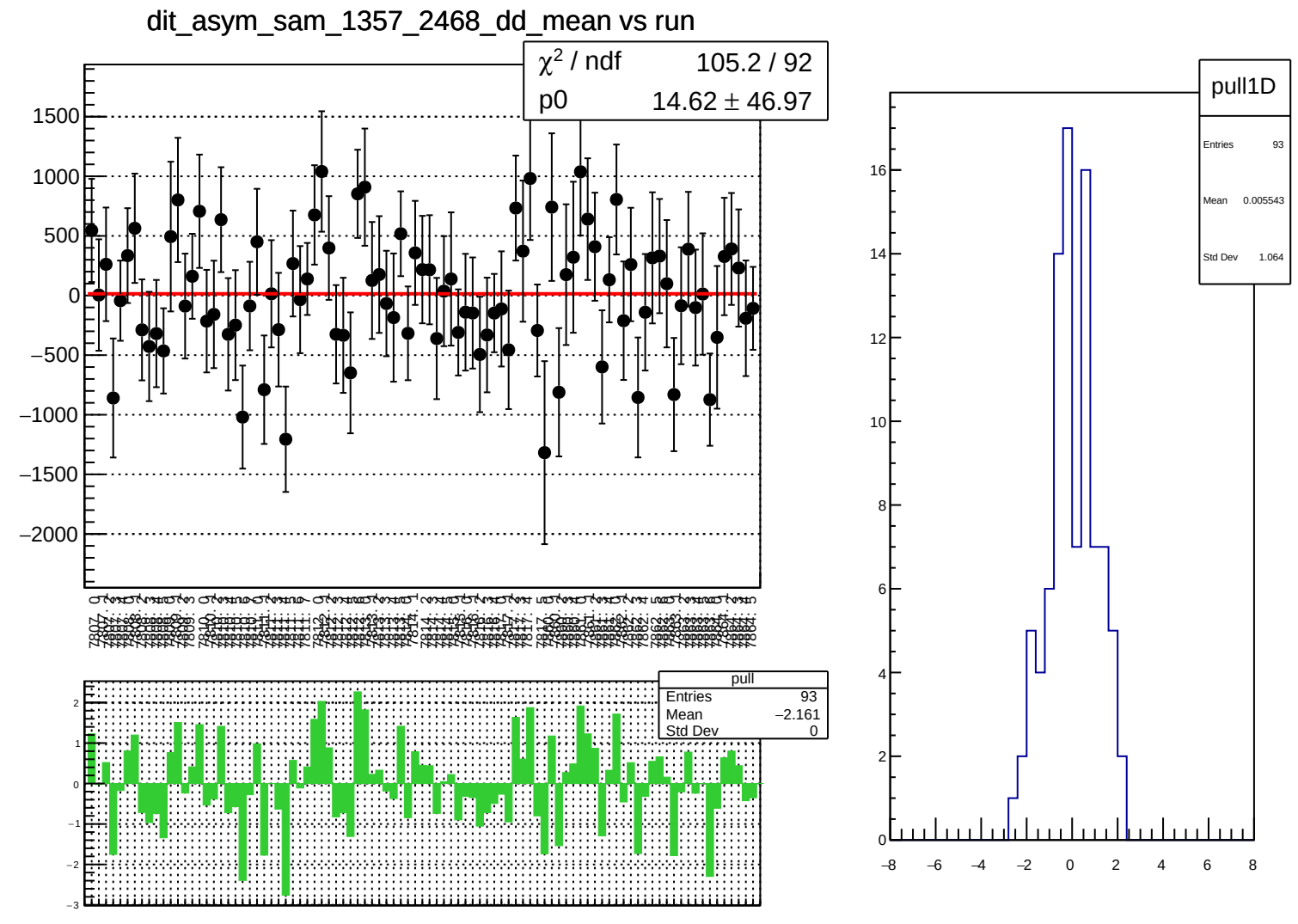

eigen_cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 92.39 / 92
p0 12.15 ± 39.79
1500
1000
500
0
−500
−1000
−1500
pull
Entries 93
Mean 21.54
Std Dev 103.5
2
1
0
−1
−2

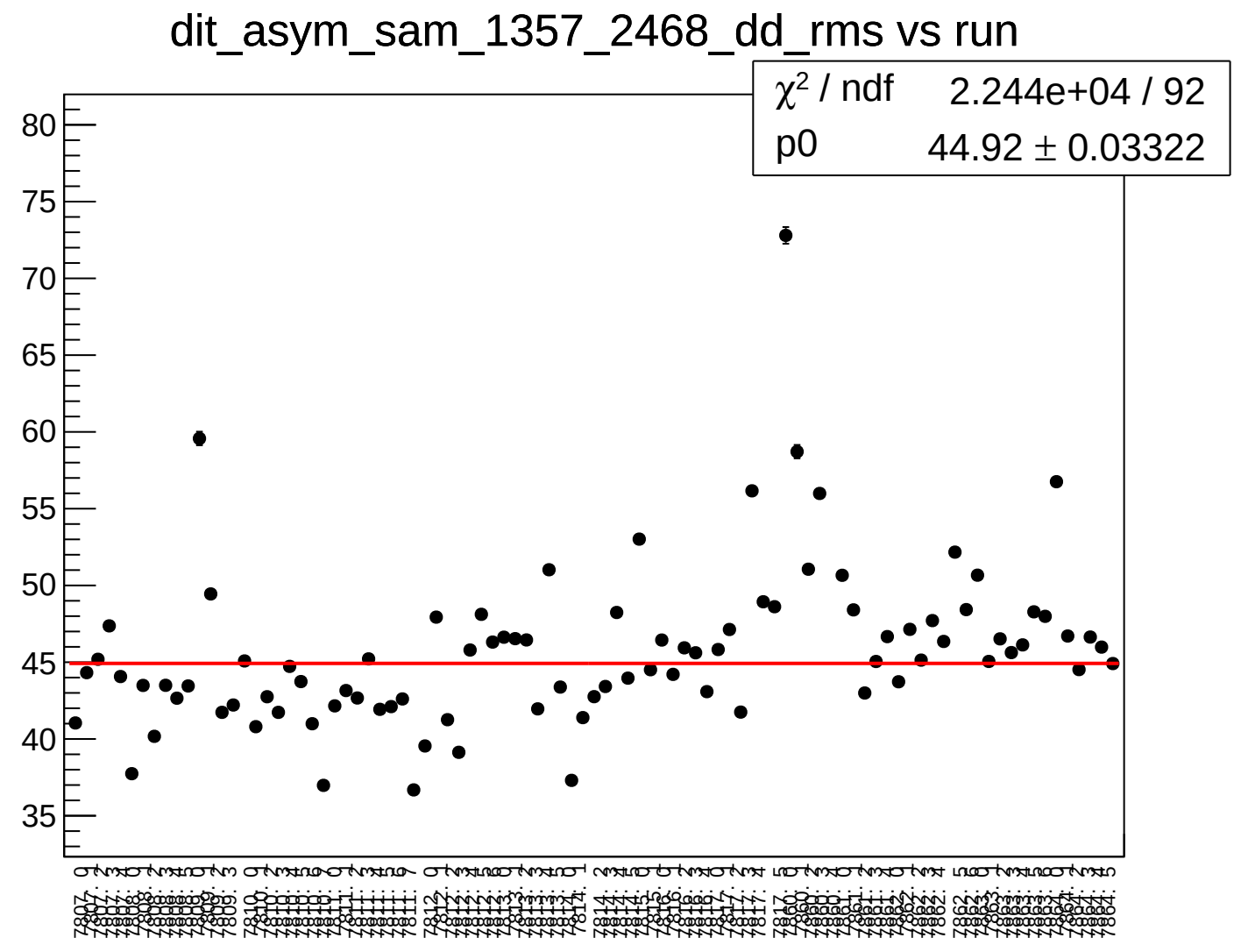

pull1D
Entries 93
Mean −0.005898
Std Dev 0.9967
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

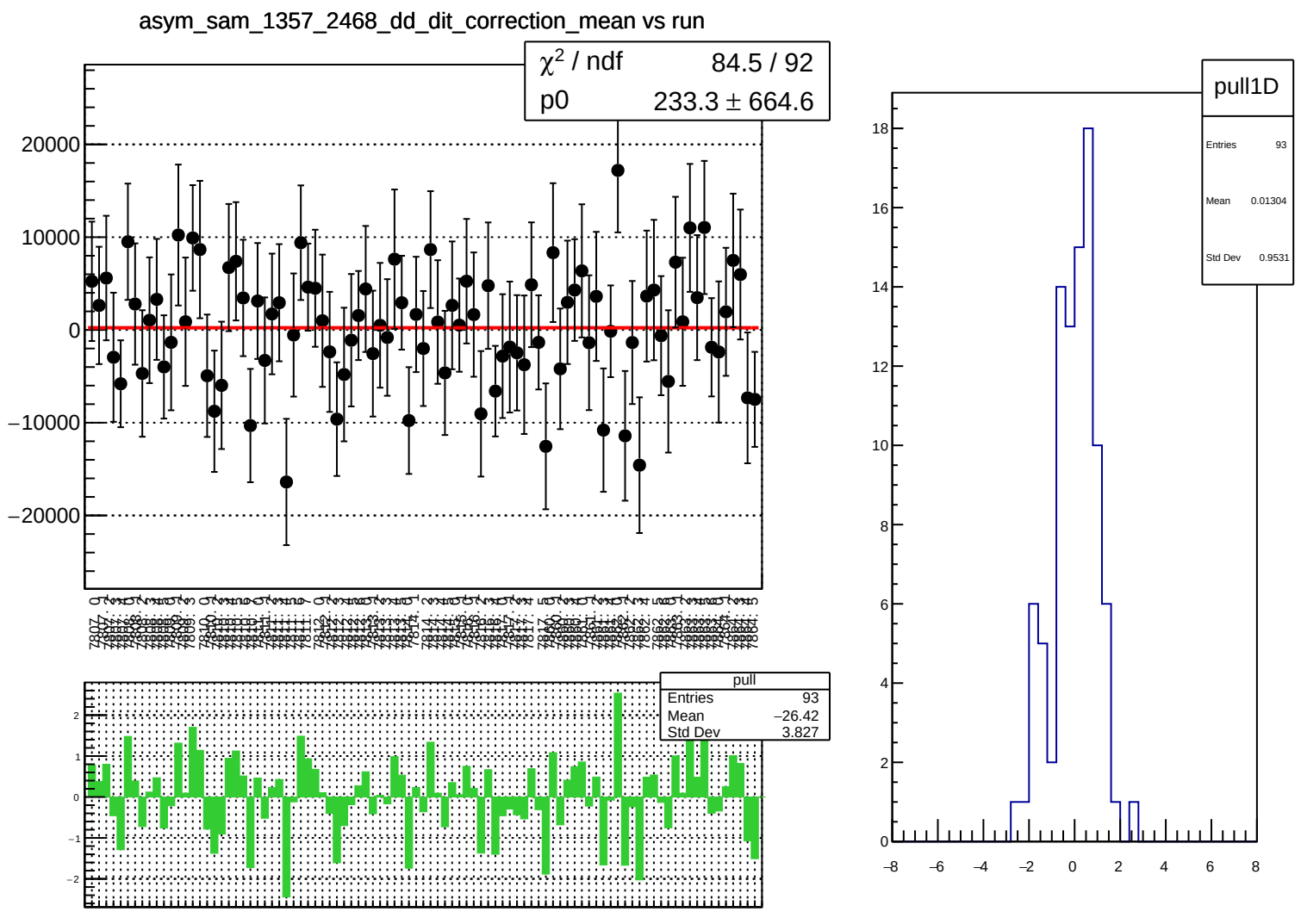

eigen_cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.584e+04 / 92
p0 38.12 ± 0.02813
65
60
55
50
45
40
35
30

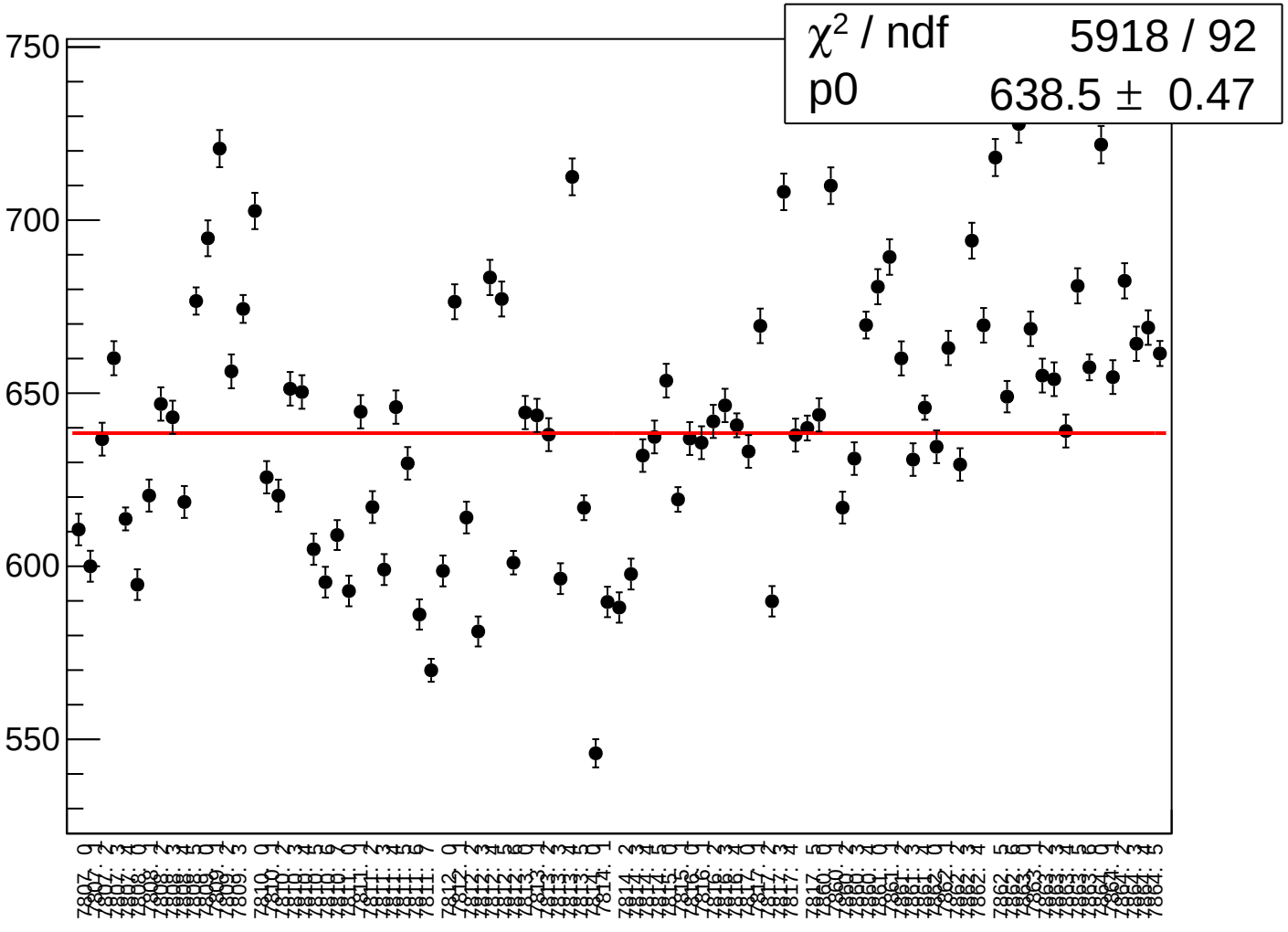

asym_sam_1357_2468_dd_eigen_cor_correction_mean vs run
χ² / ndf 84.24 / 92
p0 220.4 ± 642.7
20000
10000
0
−10000
−20000
pull
Entries 93
Mean −26.67
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.01346
Std Dev 0.9516
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

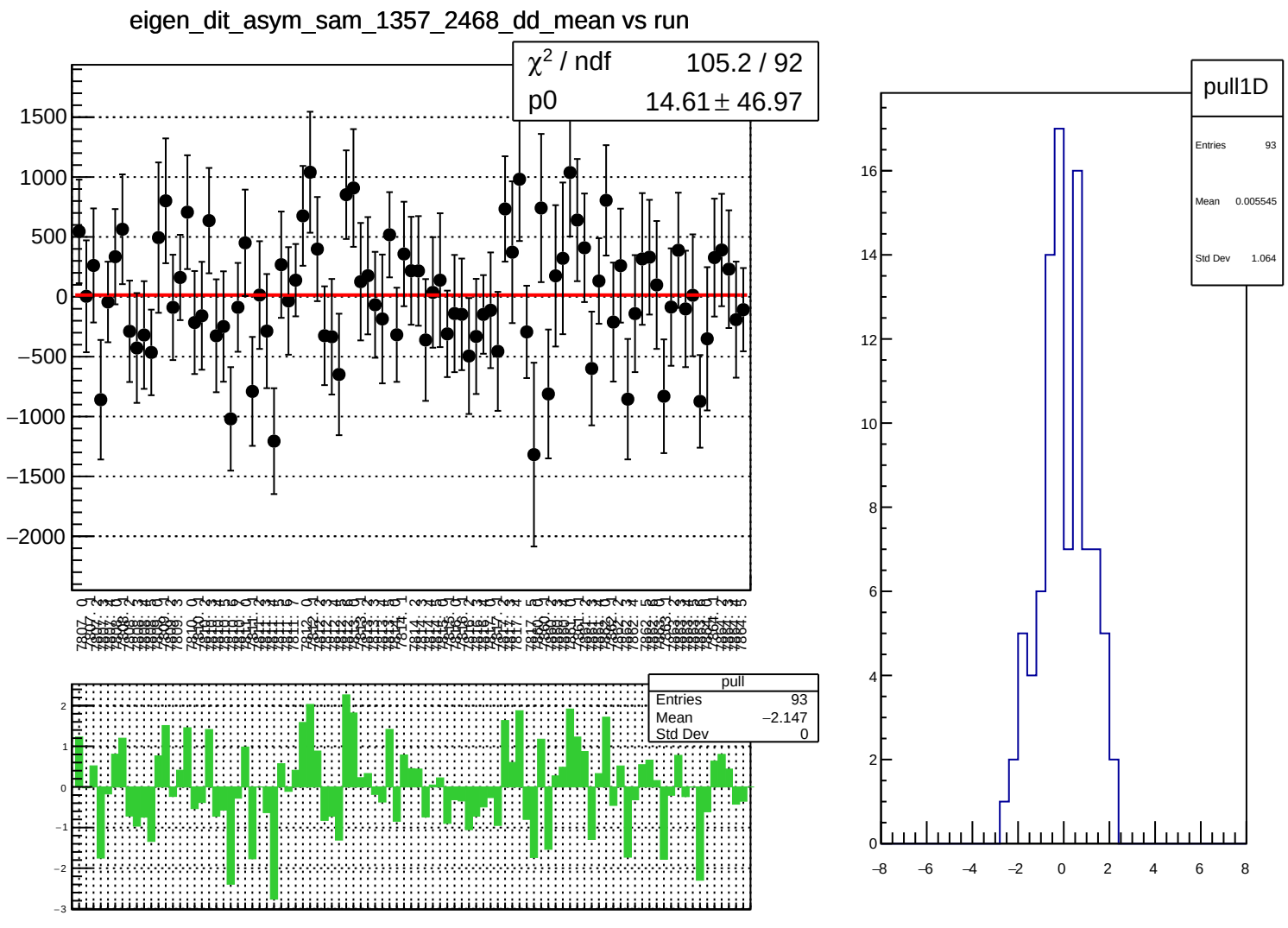

asym_sam_1357_2468_dd_eigen_cor_correction_rms vs run
χ² / ndf 6187 / 92
p0 617.3 ± 0.4544
720
700
680
660
640
620
600
580
560
540
520

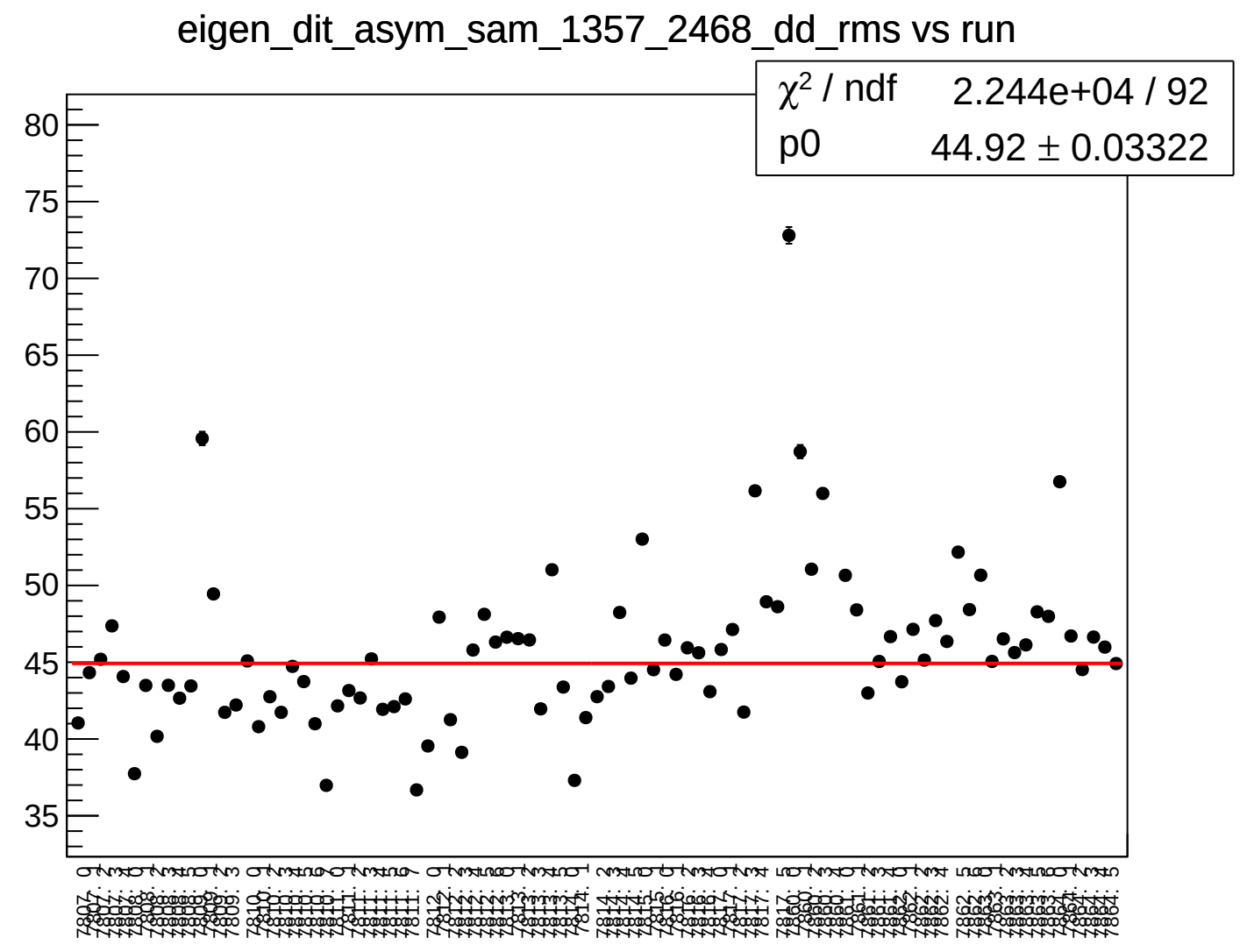

dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 105.2 / 92
p0 14.62 ± 46.97
1500
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 93
Mean −2.161
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.005543
Std Dev 1.064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

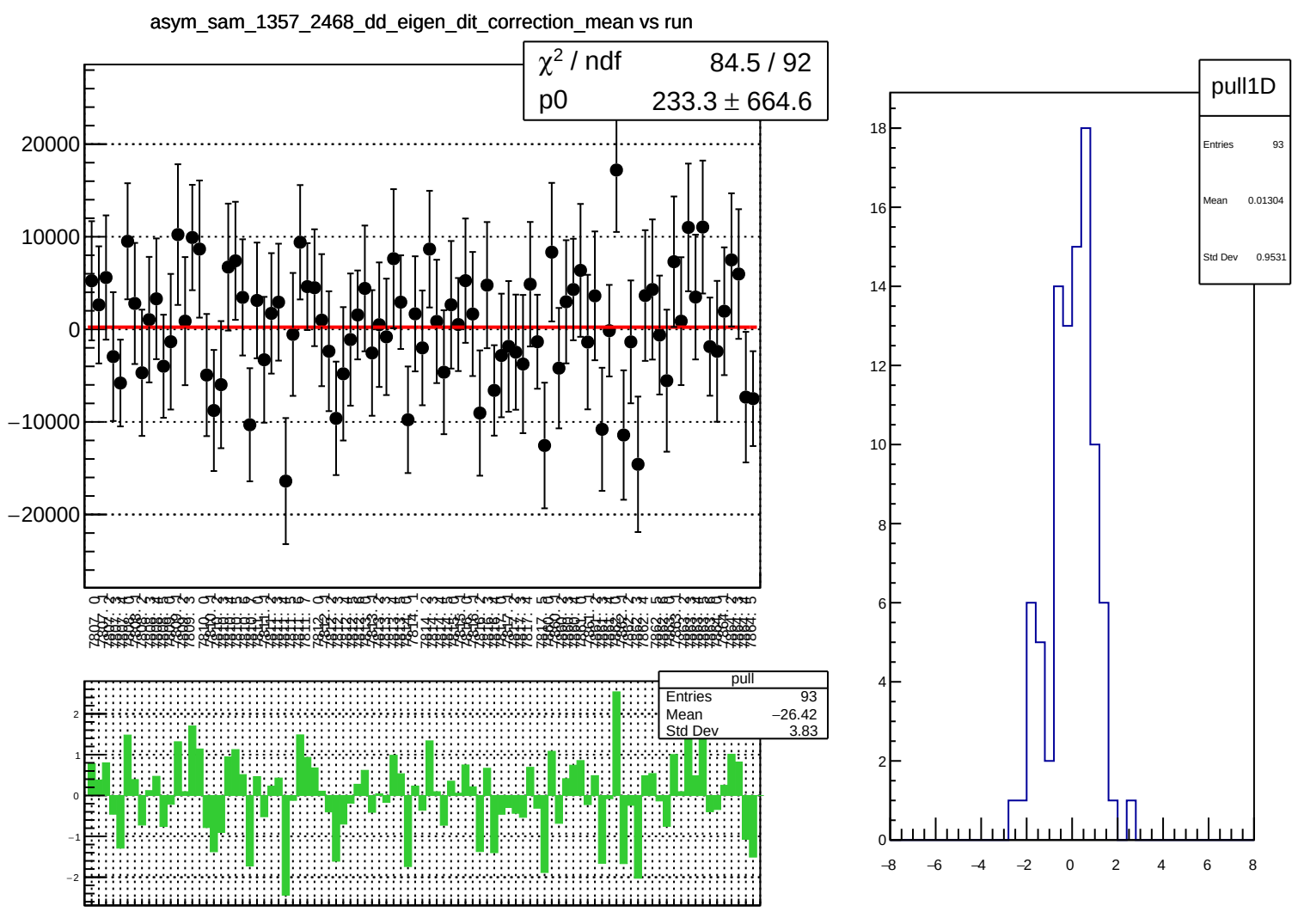

dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2.244e+04 / 92
p0 44.92 ± 0.03322
80
75
70
65
60
55
50
45
40
35

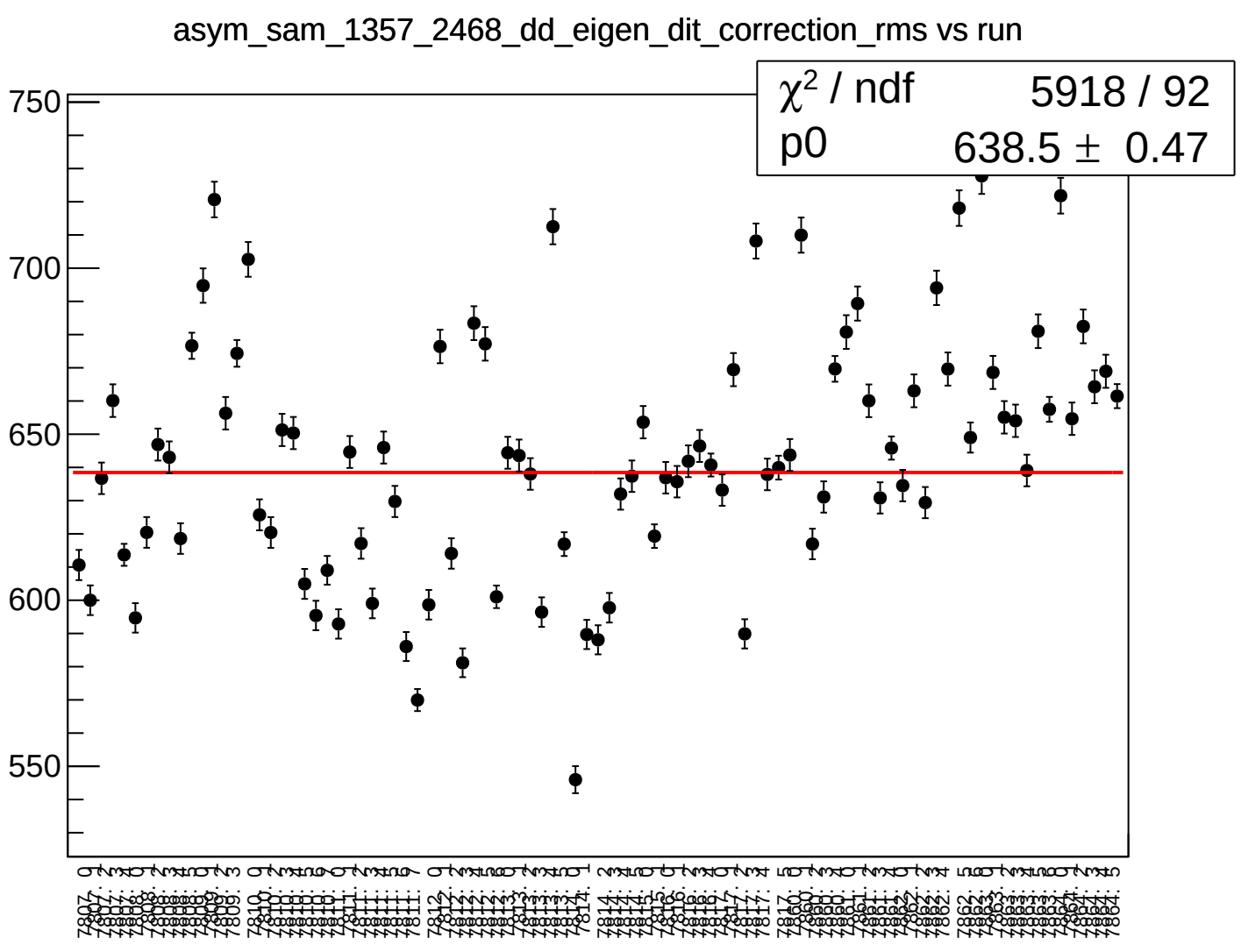

asym_sam_1357_2468_dd_dit_correction_mean vs run
χ² / ndf 84.5 / 92
p0 233.3 ± 664.6
20000
10000
0
−10000
−20000
pull
Entries 93
Mean −26.42
Std Dev 3.827
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.01304
Std Dev 0.9531
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

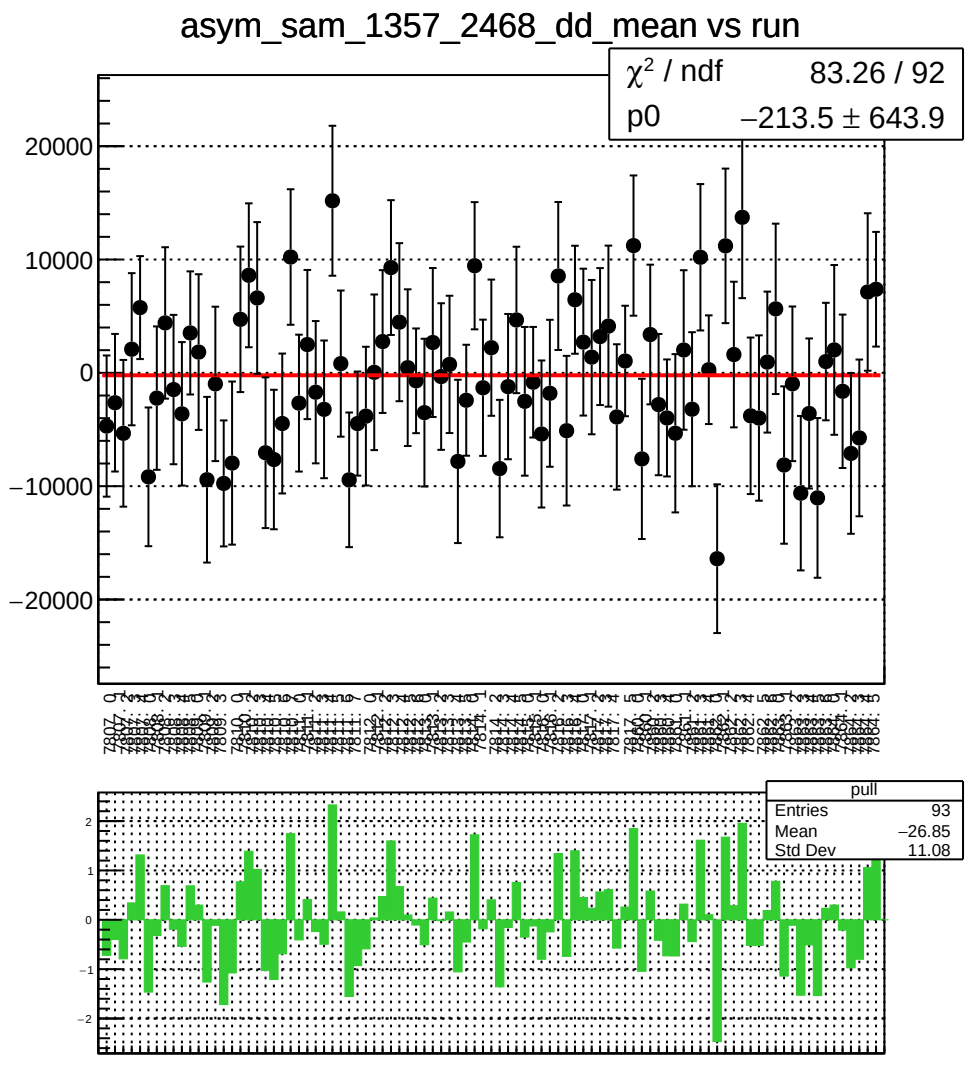

asym_sam_1357_2468_dd_dit_correction_rms vs run
χ² / ndf 5918 / 92
p0 638.5 ± 0.47
750
700
650
600
550

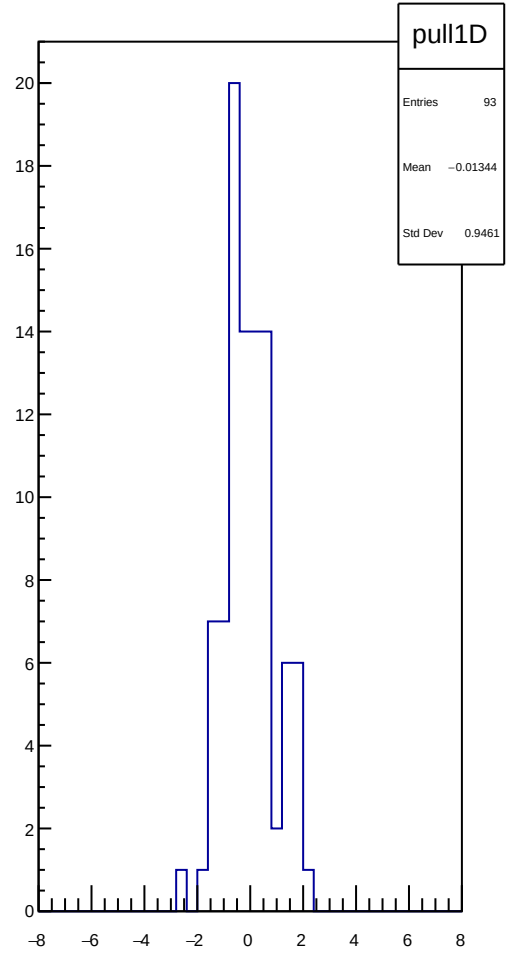

eigen_dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 105.2 / 92
p0 14.61 ± 46.97
pull
Entries 93
Mean −2.147
Std Dev 0
pull1D
Entries 93
Mean 0.005545
Std Dev 1.064

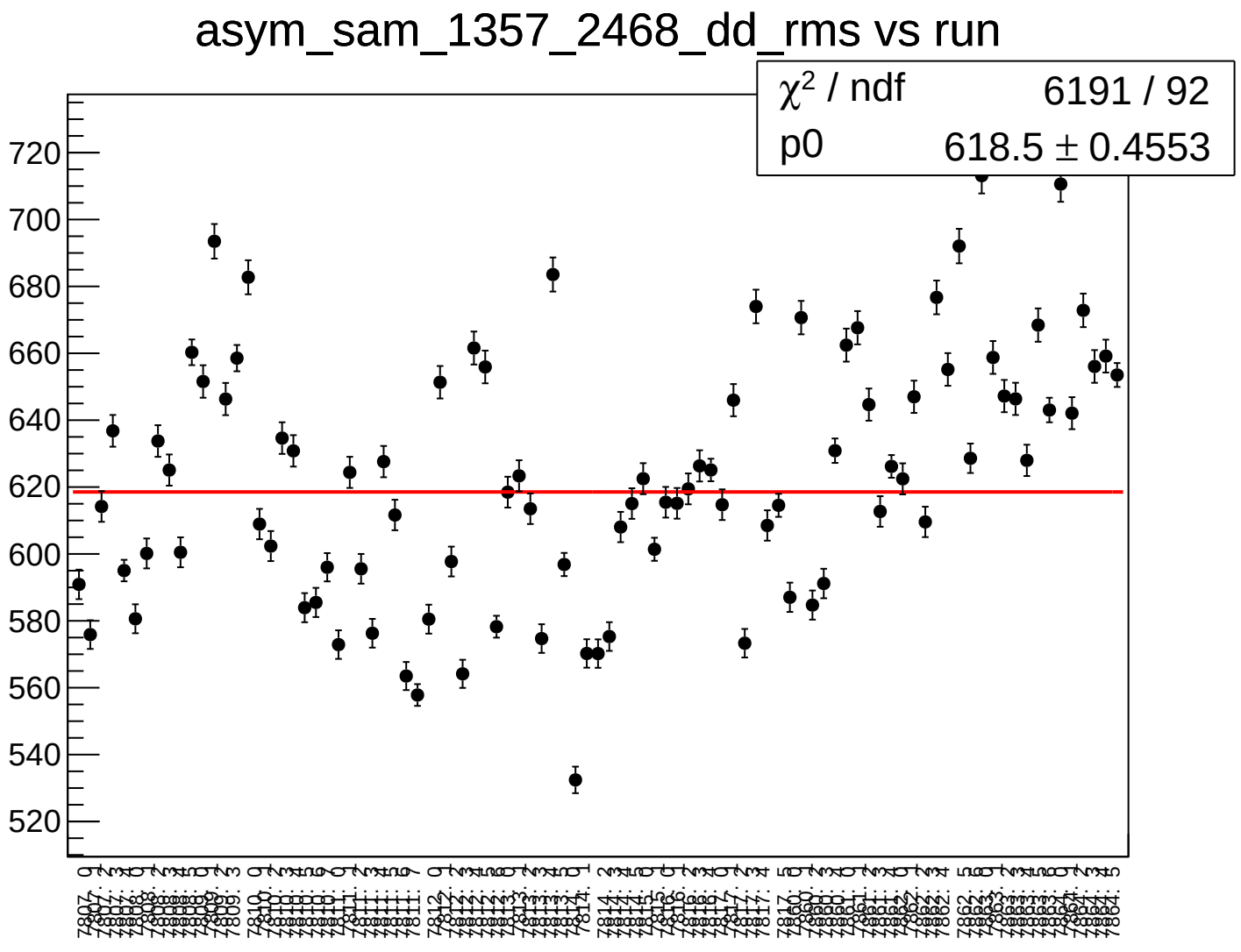

eigen_dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2.244e+04 / 92
p0 44.92 ± 0.03322
80
75
70
65
60
55
50
45
40
35

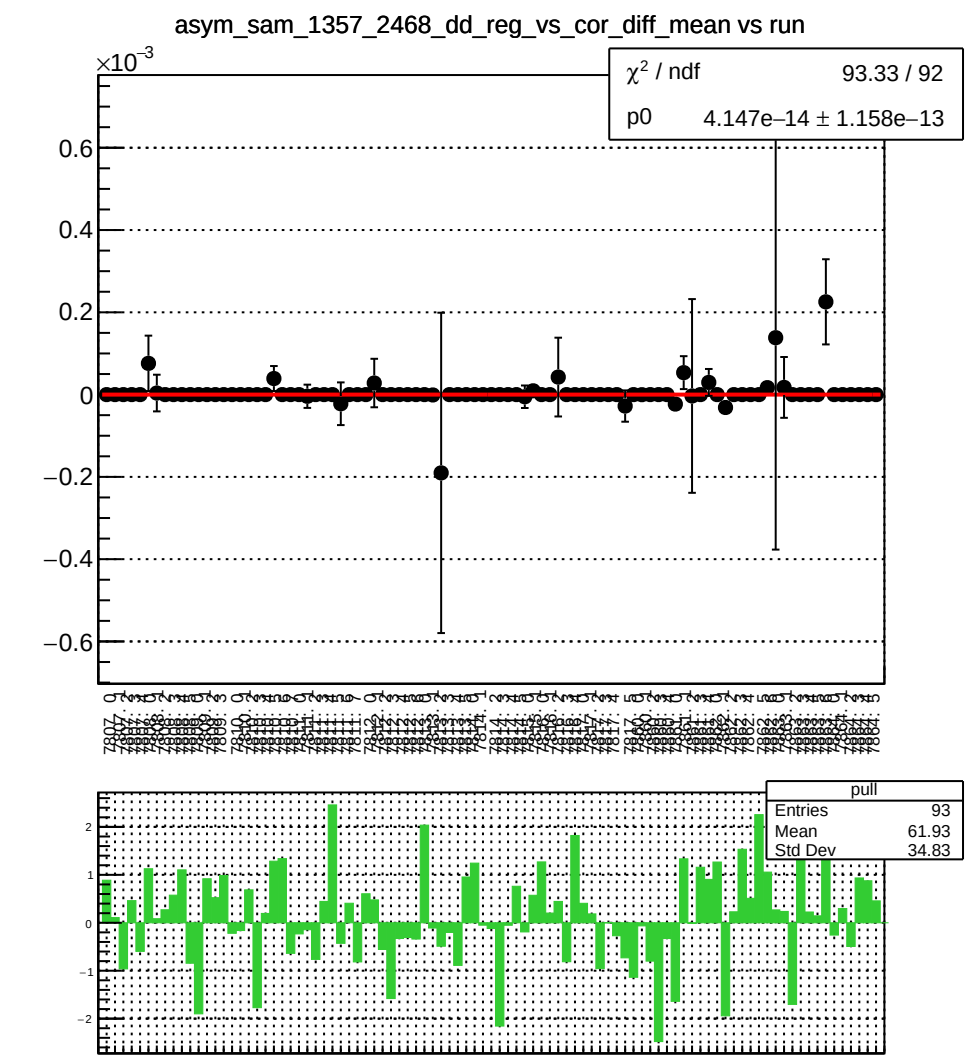

asym_sam_1357_2468_dd_eigen_dit_correction_mean vs run
χ² / ndf 84.5 / 92
p0 233.3 ± 664.6
20000
10000
0
−10000
−20000
pull
Entries 93
Mean −26.42
Std Dev 3.83
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.01304
Std Dev 0.9531
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

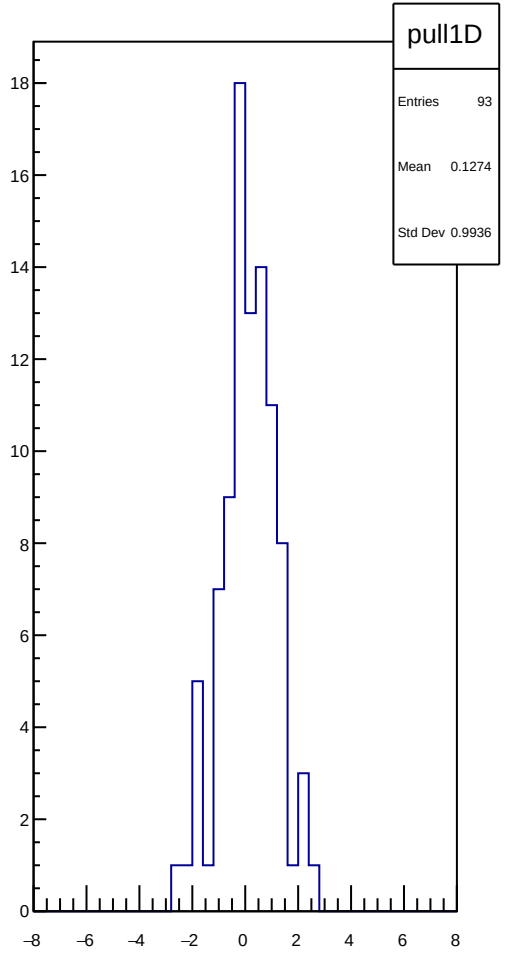

asym_sam_1357_2468_dd_eigen_dit_correction_rms vs run
χ² / ndf 5918 / 92
p0 638.5 ± 0.47
750
700
650
600
550

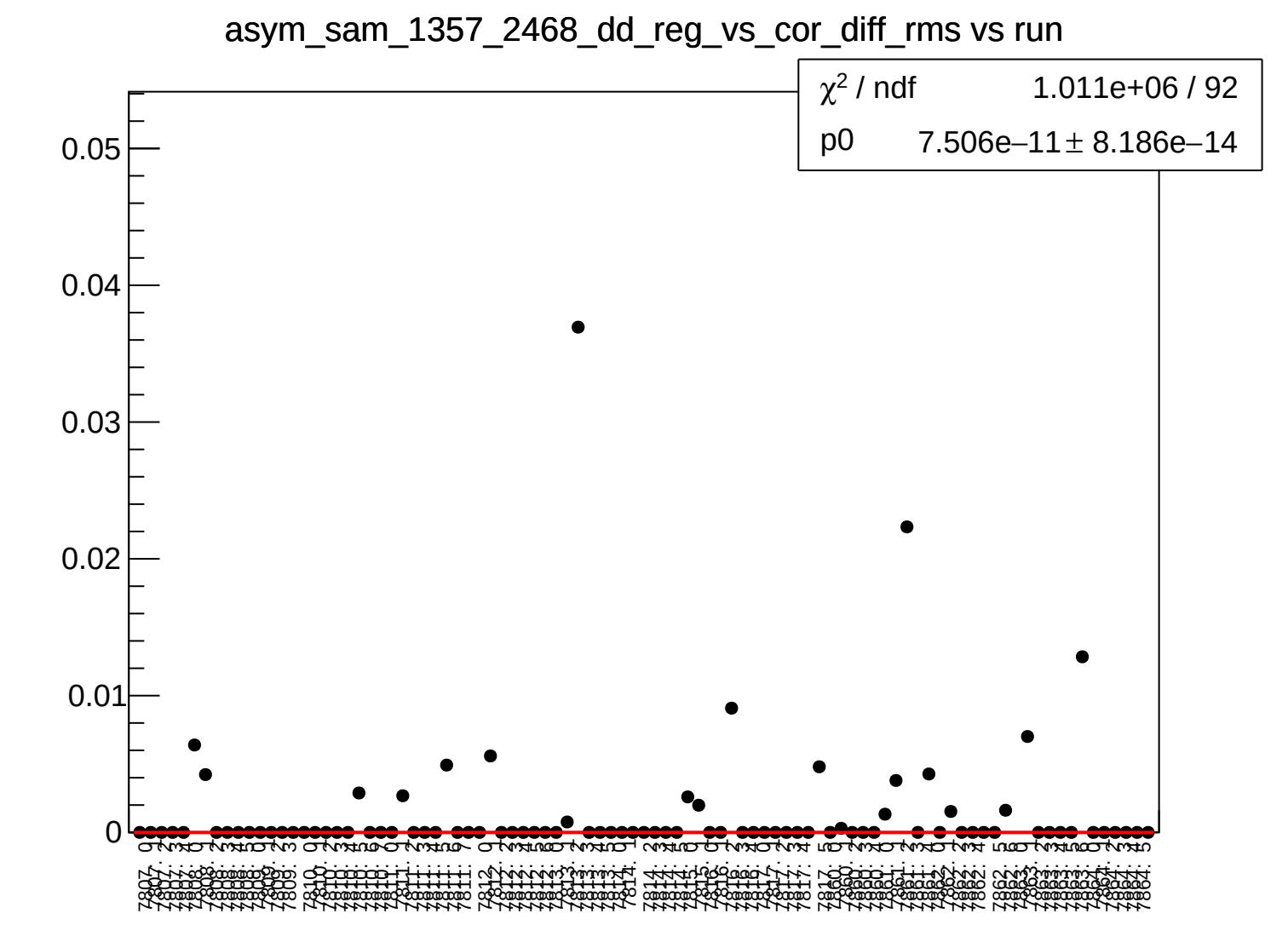

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 83.26 / 92
p0 −213.5 ± 643.9
20000
10000
0
−10000
−20000
pull
Entries 93
Mean −26.85
Std Dev 11.08
2
1
0
−1
−2

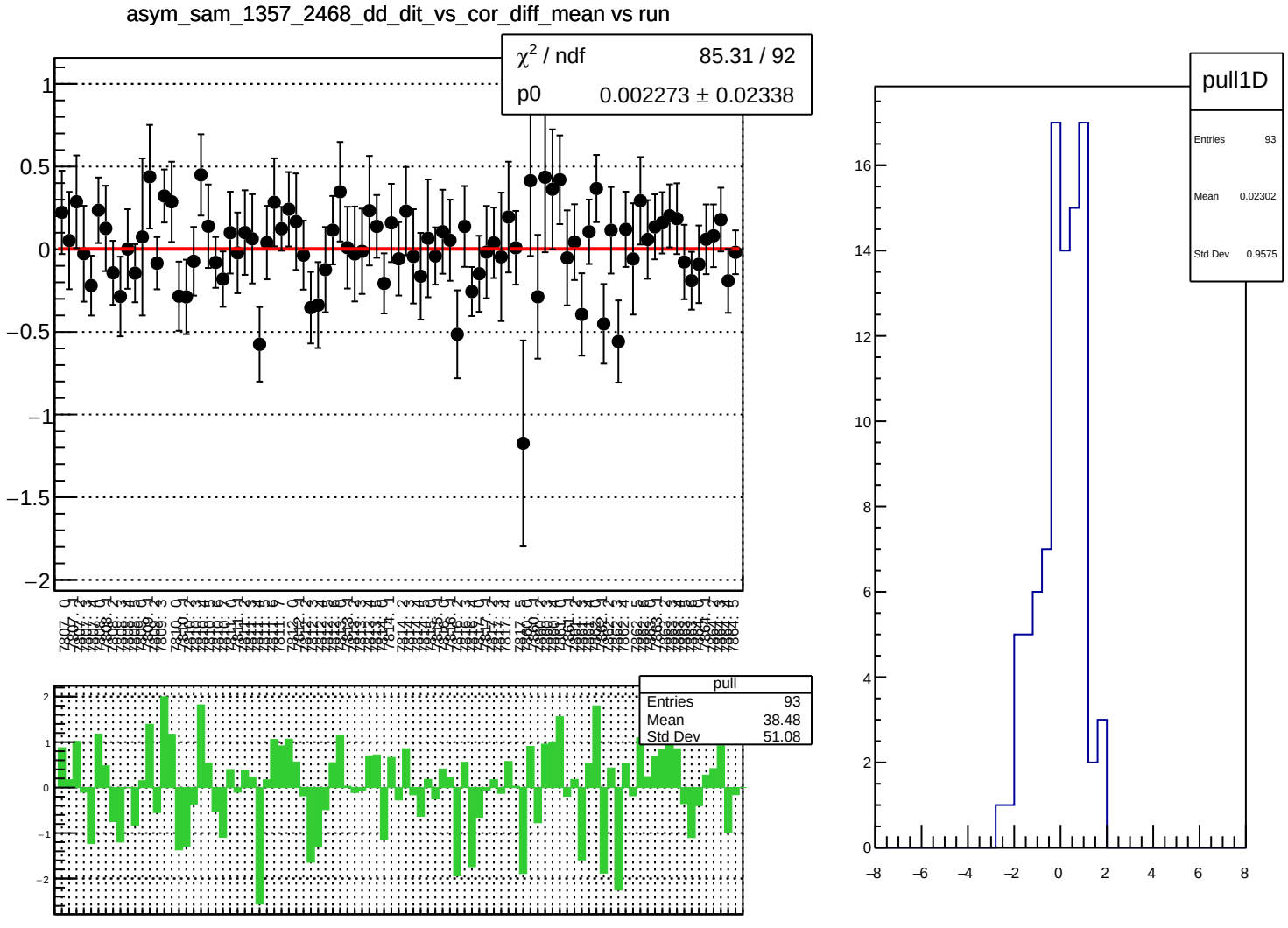

pull1D
Entries 93
Mean −0.01344
Std Dev 0.9461
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

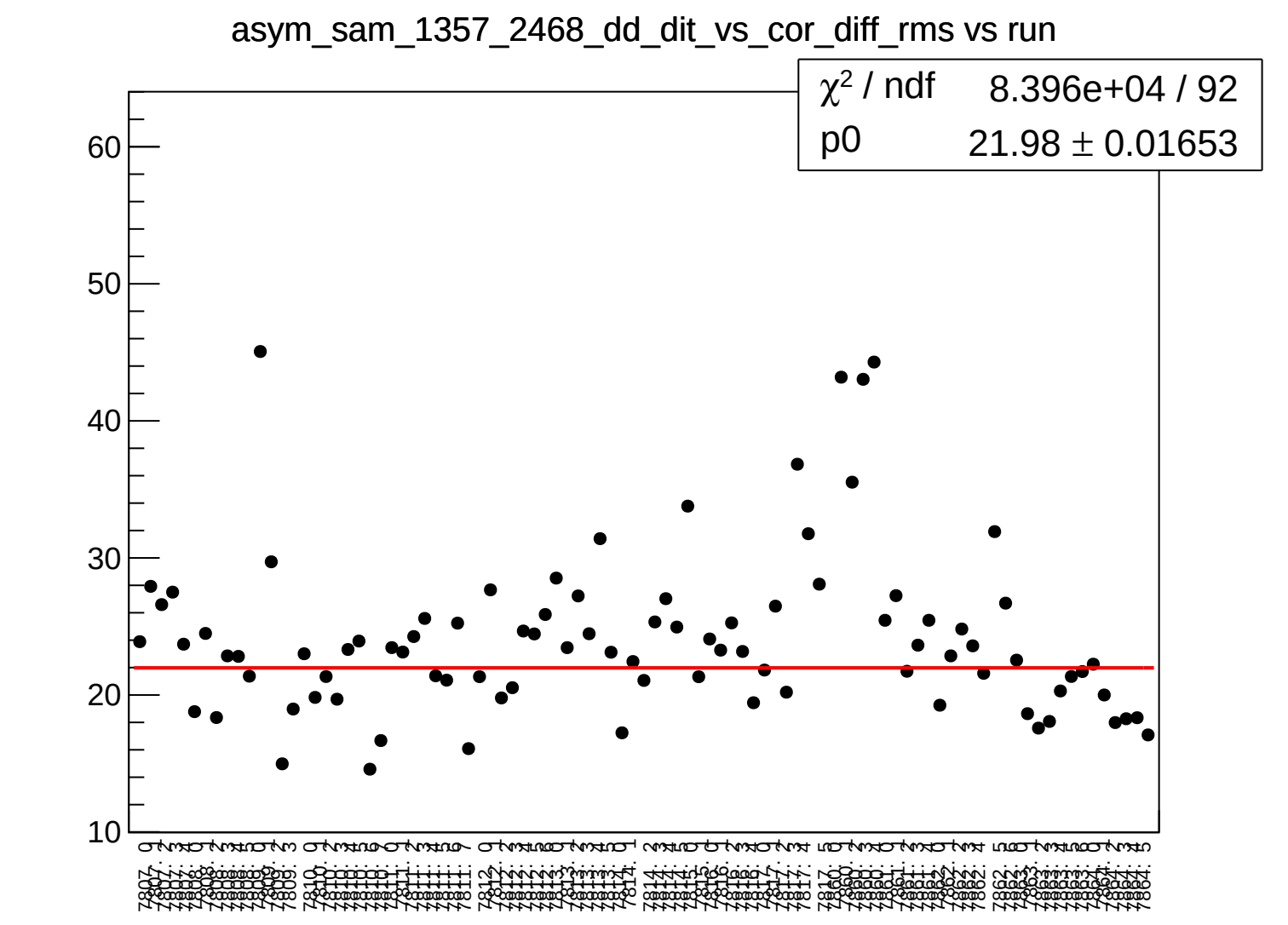

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 6191 / 92
p0 618.5 ± 0.4553
720
700
680
660
640
620
600
580
560
540
520

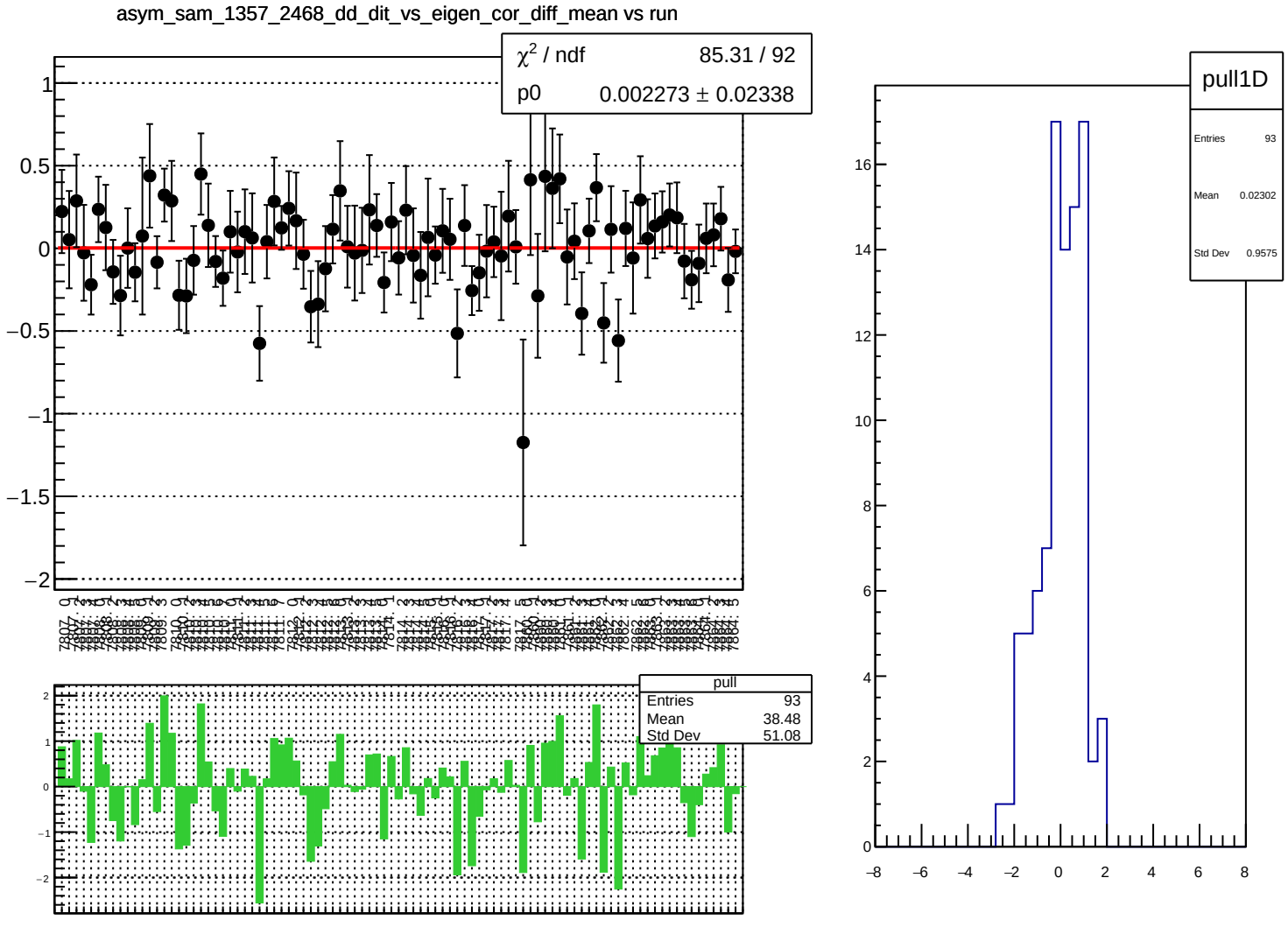

asym_sam_1357_2468_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 93.33 / 92
p0 4.147e−14 ± 1.158e−13
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 93
Mean 61.93
Std Dev 34.83
2
1
0
−1
−2

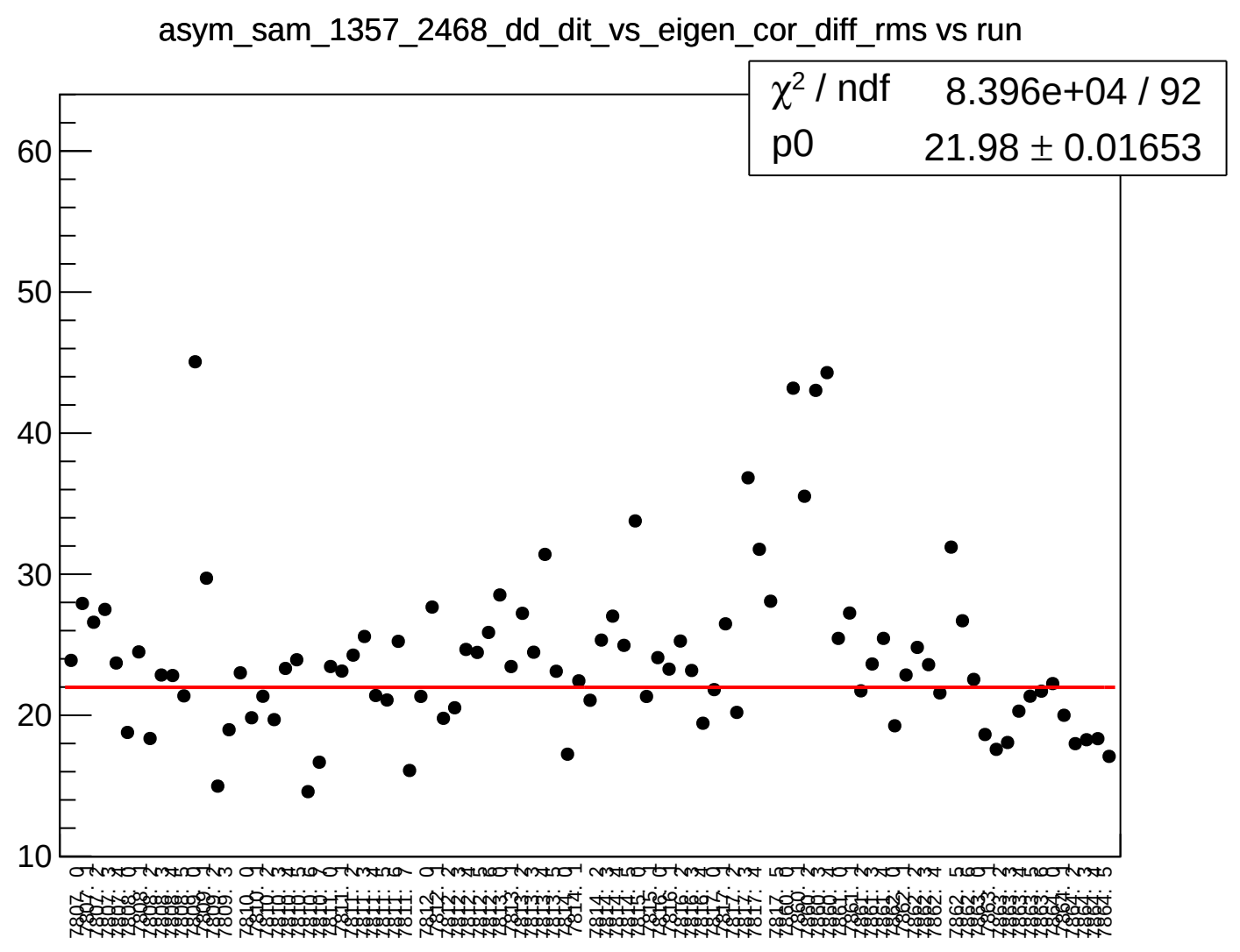

pull1D
Entries 93
Mean 0.1274
Std Dev 0.9936
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

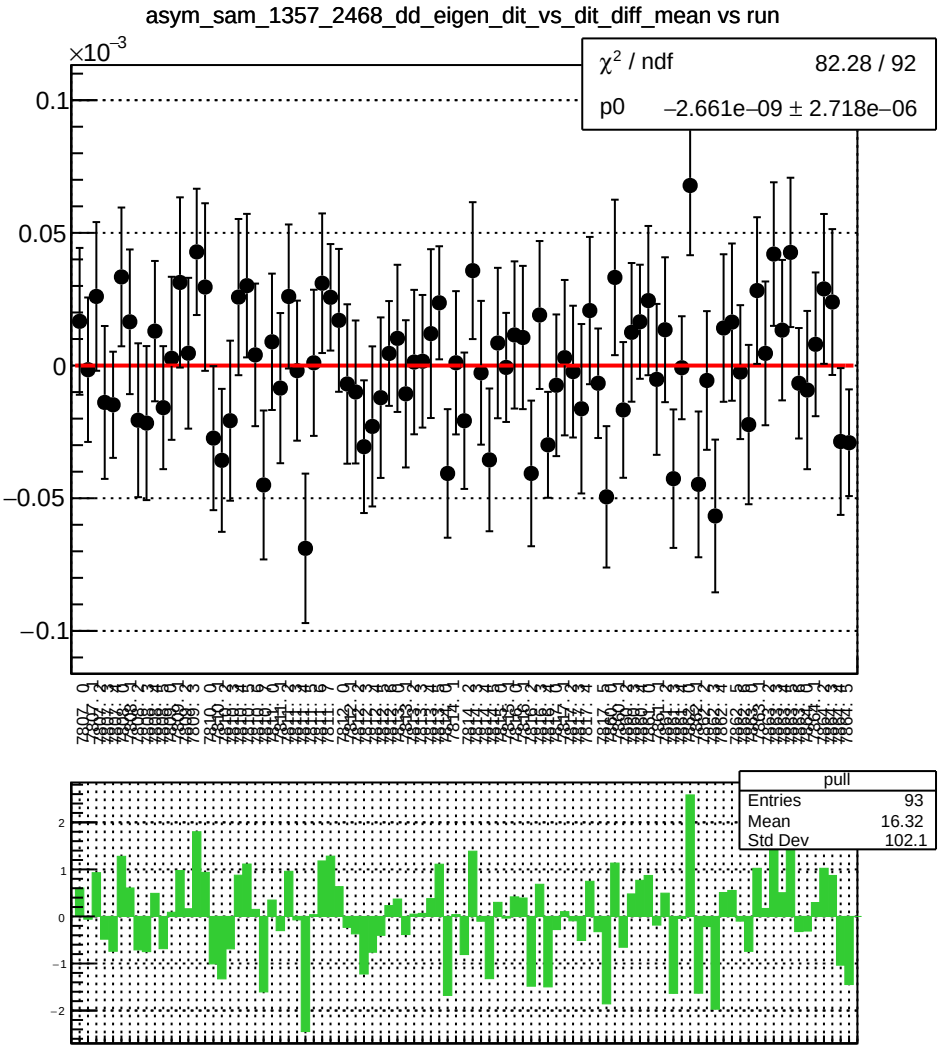

asym_sam_1357_2468_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.011e+06 / 92
p0 7.506e−11 ± 8.186e−14
0.05
0.04
0.03
0.02
0.01
0

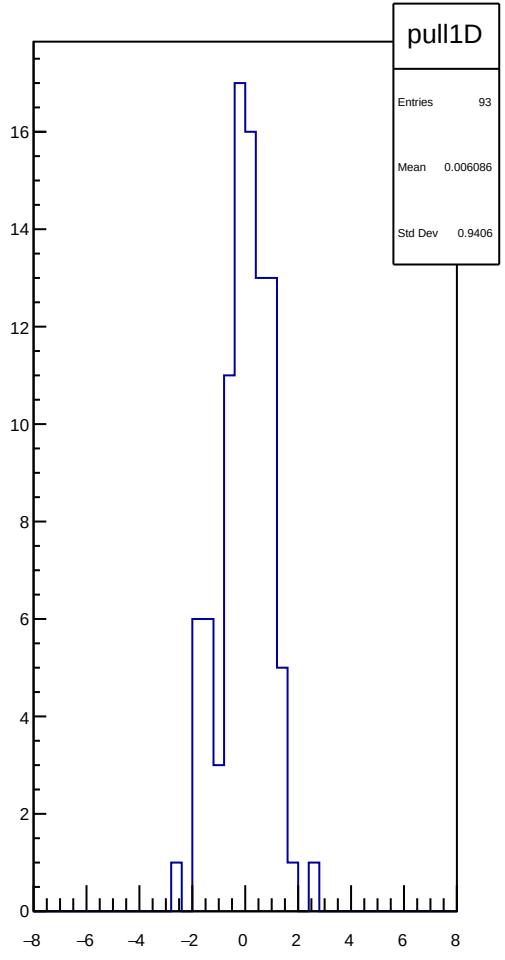

asym_sam_1357_2468_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 85.31 / 92
p0 0.002273 ± 0.02338
pull
Entries 93
Mean 38.48
Std Dev 51.08
pull1D
Entries 93
Mean 0.02302
Std Dev 0.9575

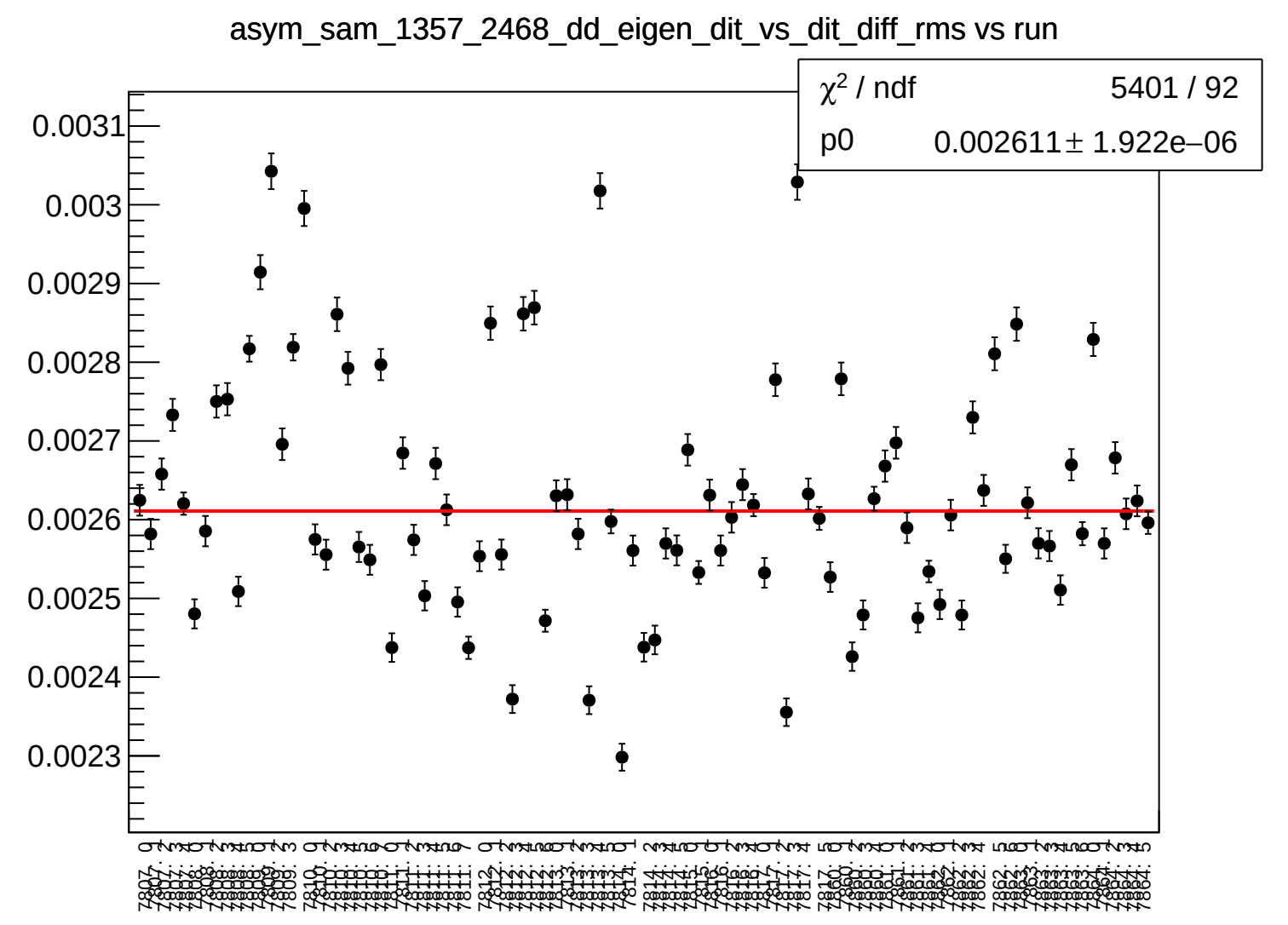

asym_sam_1357_2468_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8.396e+04 / 92
p0 21.98 ± 0.01653
60
50
40
30
20
10

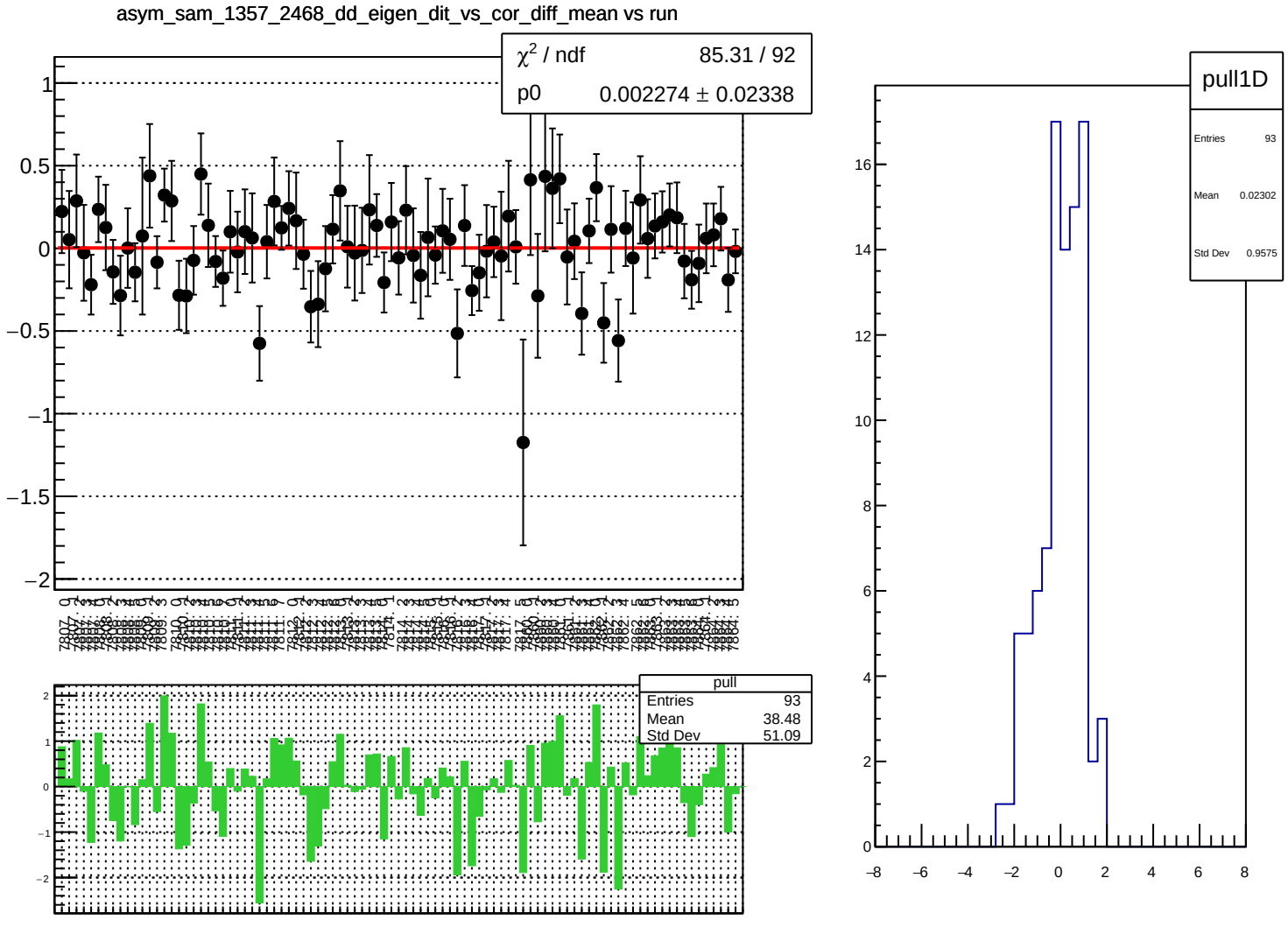

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.31 / 92
p0 0.002273 ± 0.02338
pull
Entries 93
Mean 38.48
Std Dev 51.08
pull1D
Entries 93
Mean 0.02302
Std Dev 0.9575

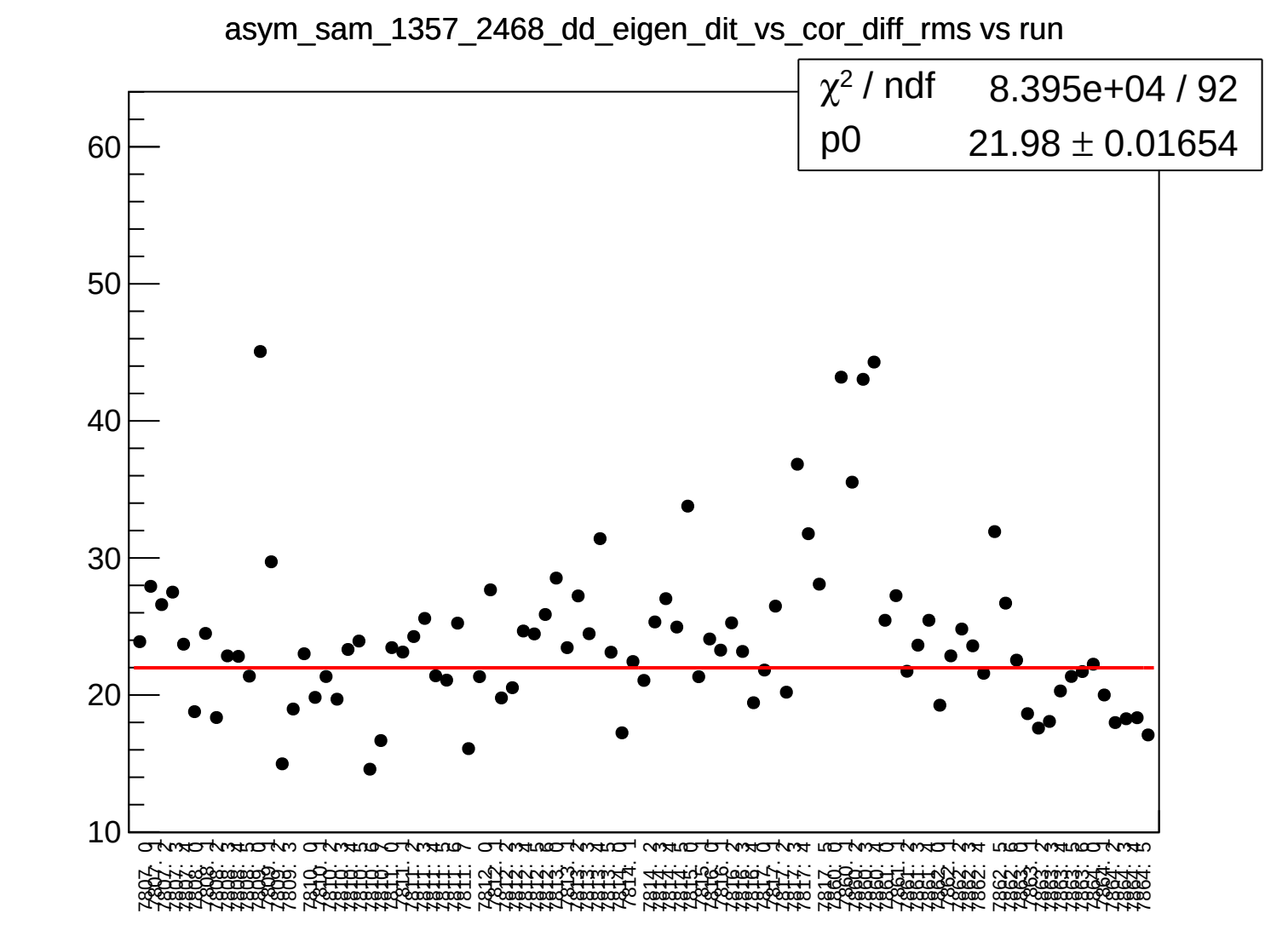

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.396e+04 / 92
p0 21.98 ± 0.01653
60
50
40
30
20
10

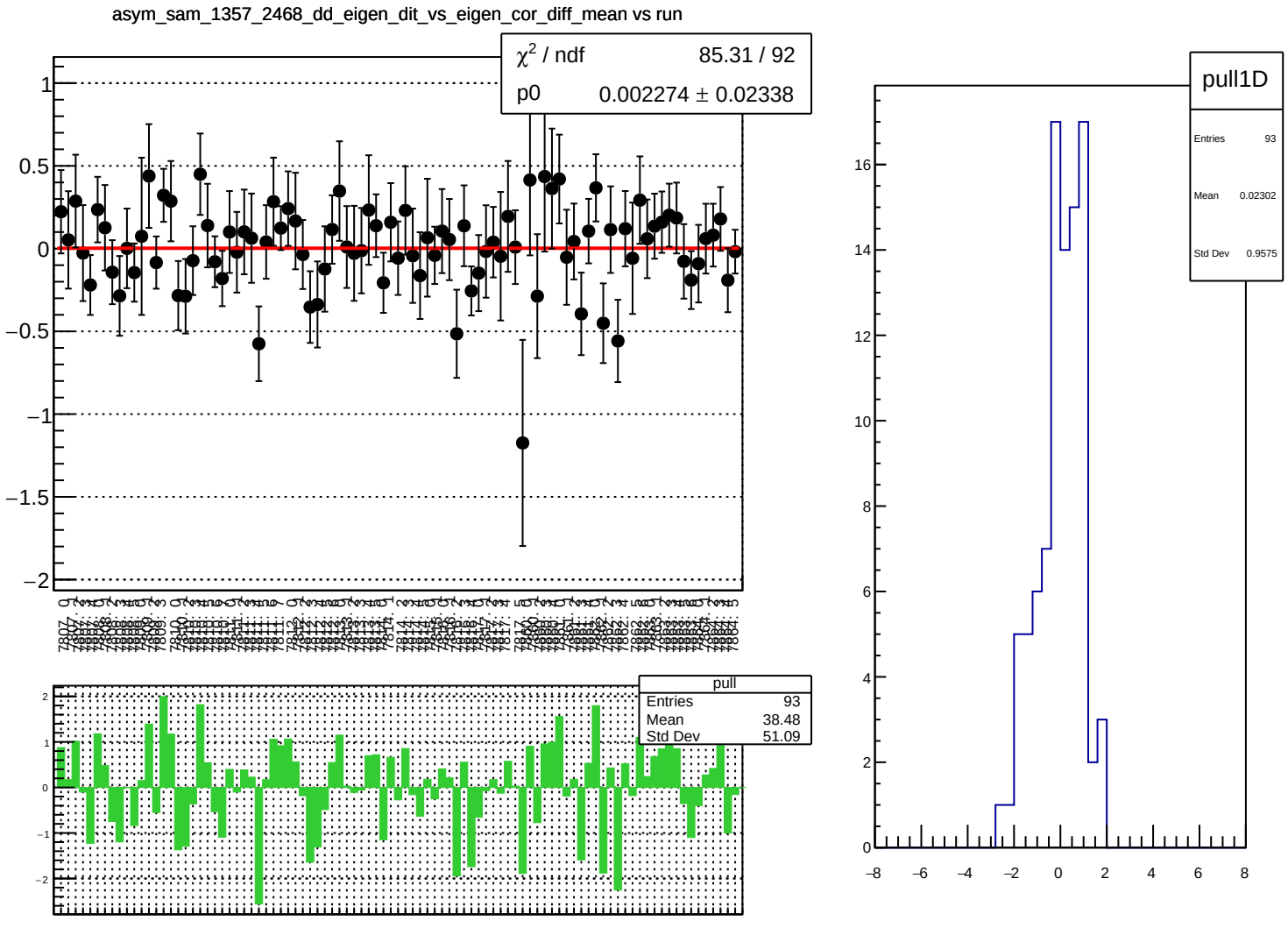

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 82.28 / 92
p0 −2.661e−09 ± 2.718e−06
pull
Entries 93
Mean 16.32
Std Dev 102.1

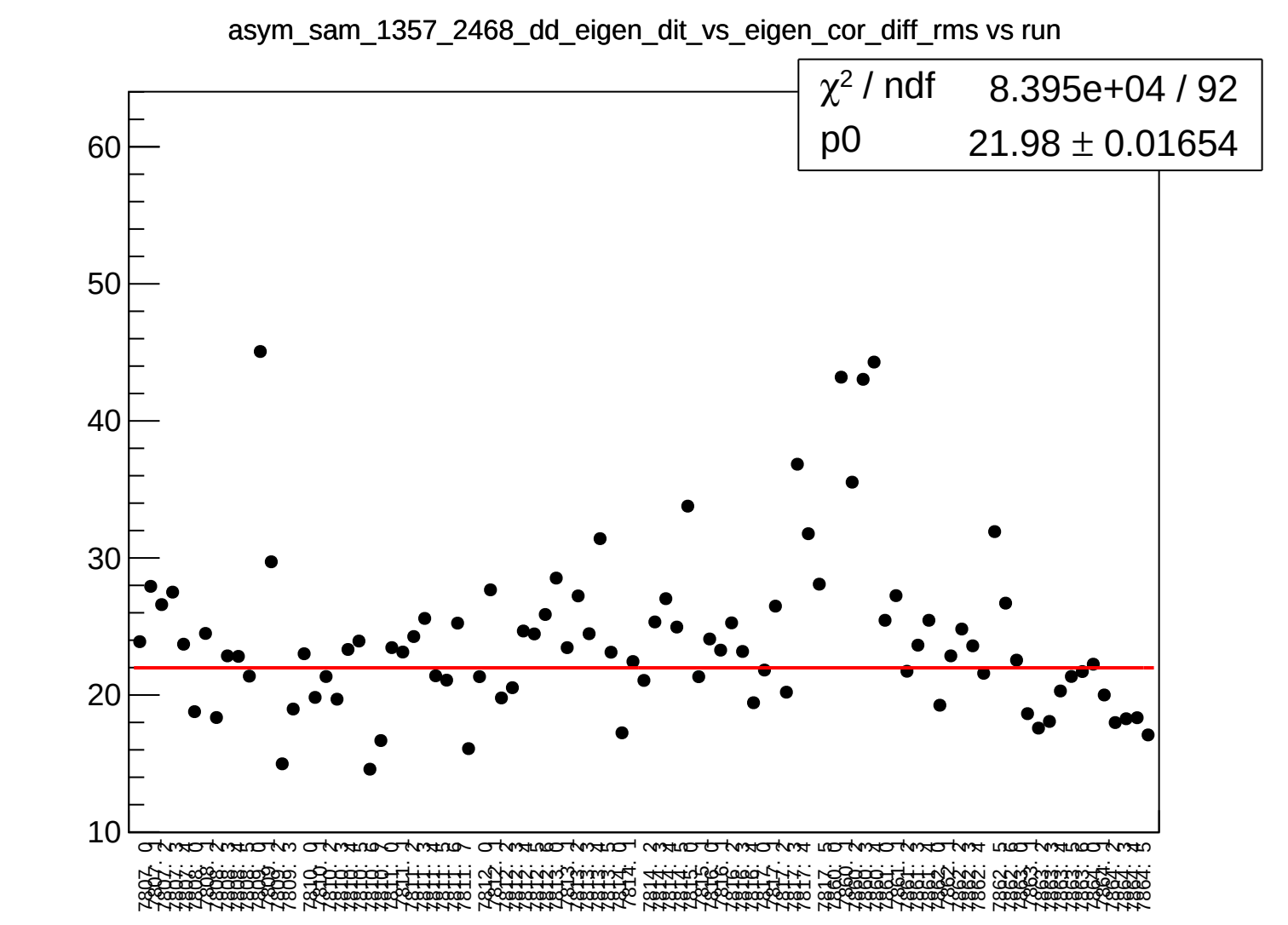

pull1D
Entries 93
Mean 0.006086
Std Dev 0.9406

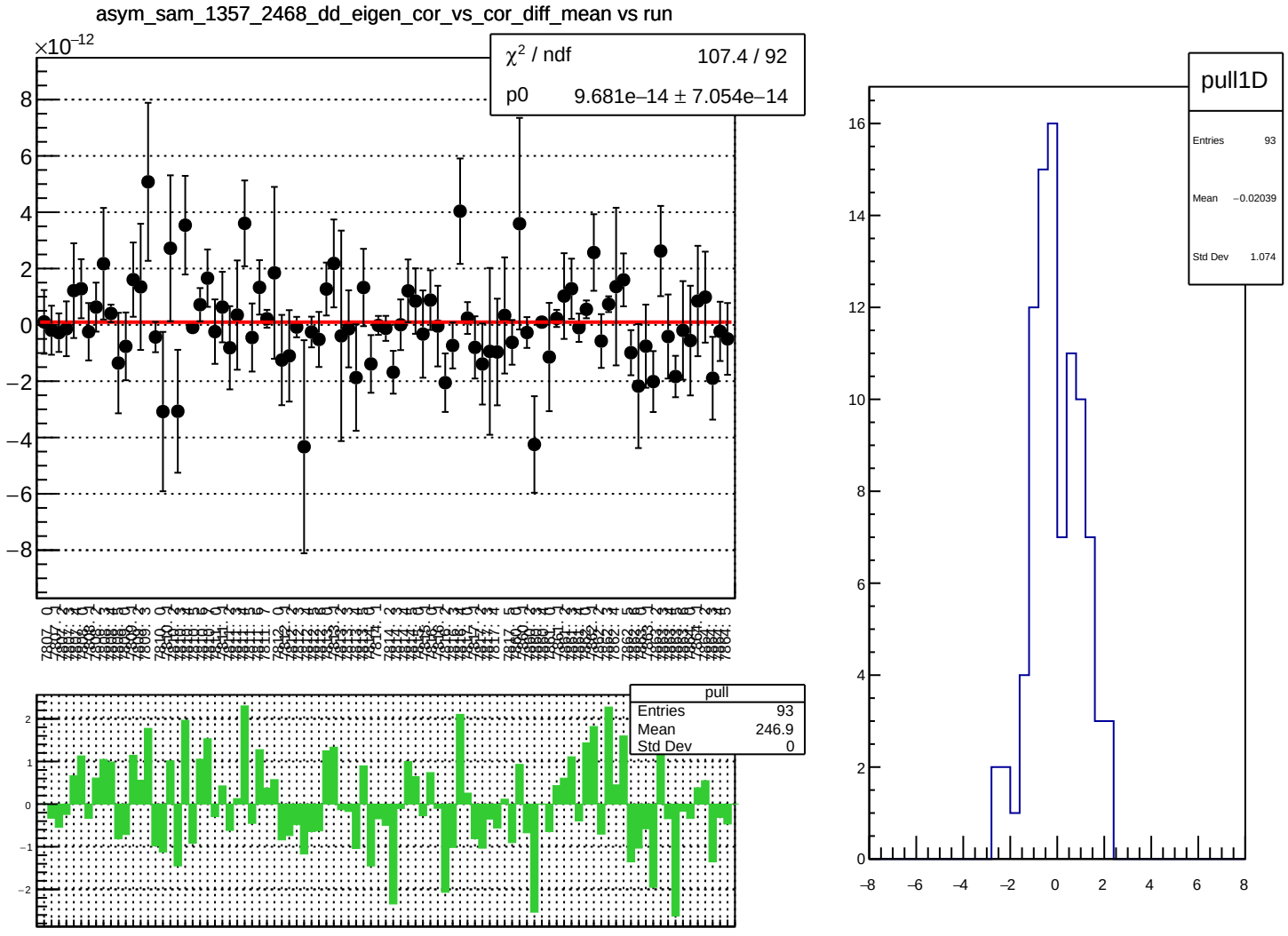

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5401 / 92
p0 0.002611 ± 1.922e−06
0.0031
0.003
0.0029
0.0028
0.0027
0.0026
0.0025
0.0024
0.0023

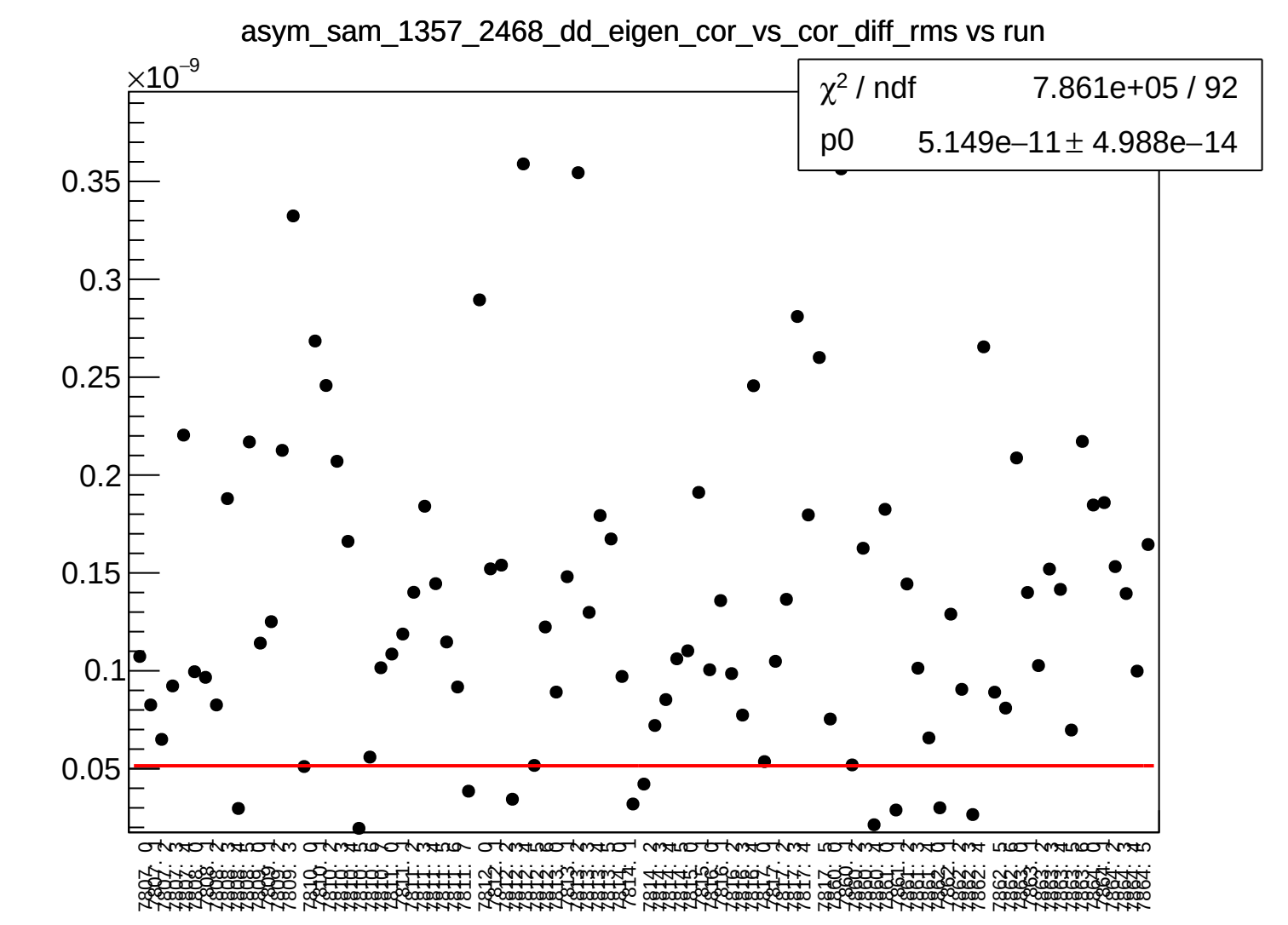

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.31 / 92
p0 0.002274 ± 0.02338
pull
Entries 93
Mean 38.48
Std Dev 51.09
pull1D
Entries 93
Mean 0.02302
Std Dev 0.9575

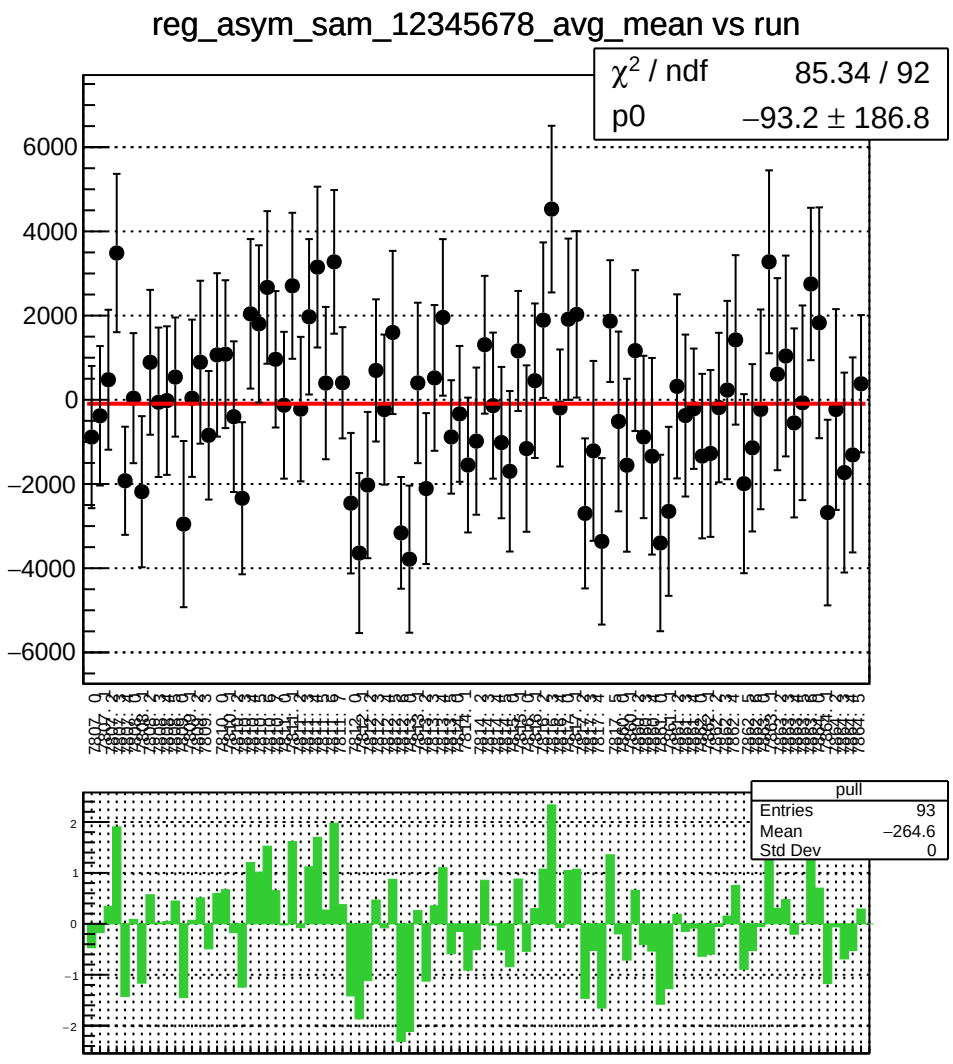

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.395e+04 / 92
p0 21.98 ± 0.01654
60
50
40
30
20
10

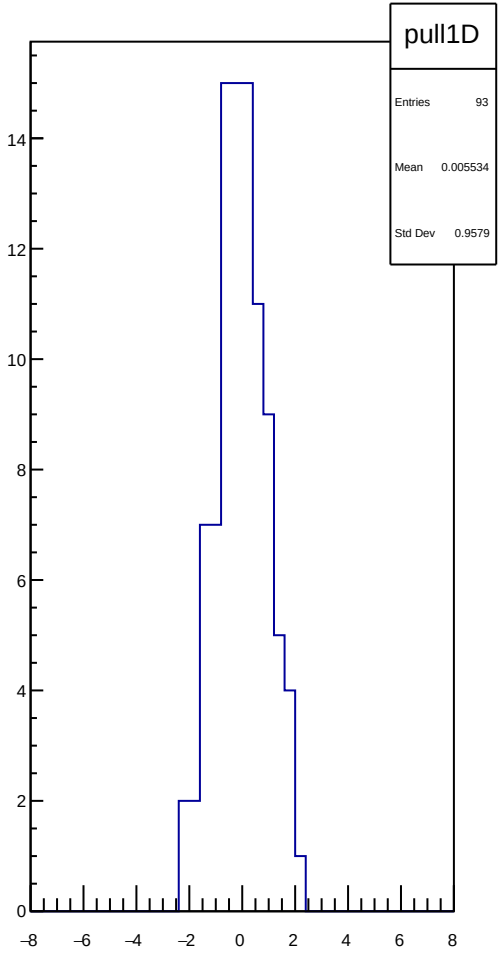

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.31 / 92
p0 0.002274 ± 0.02338
pull
Entries 93
Mean 38.48
Std Dev 51.09
pull1D
Entries 93
Mean 0.02302
Std Dev 0.9575

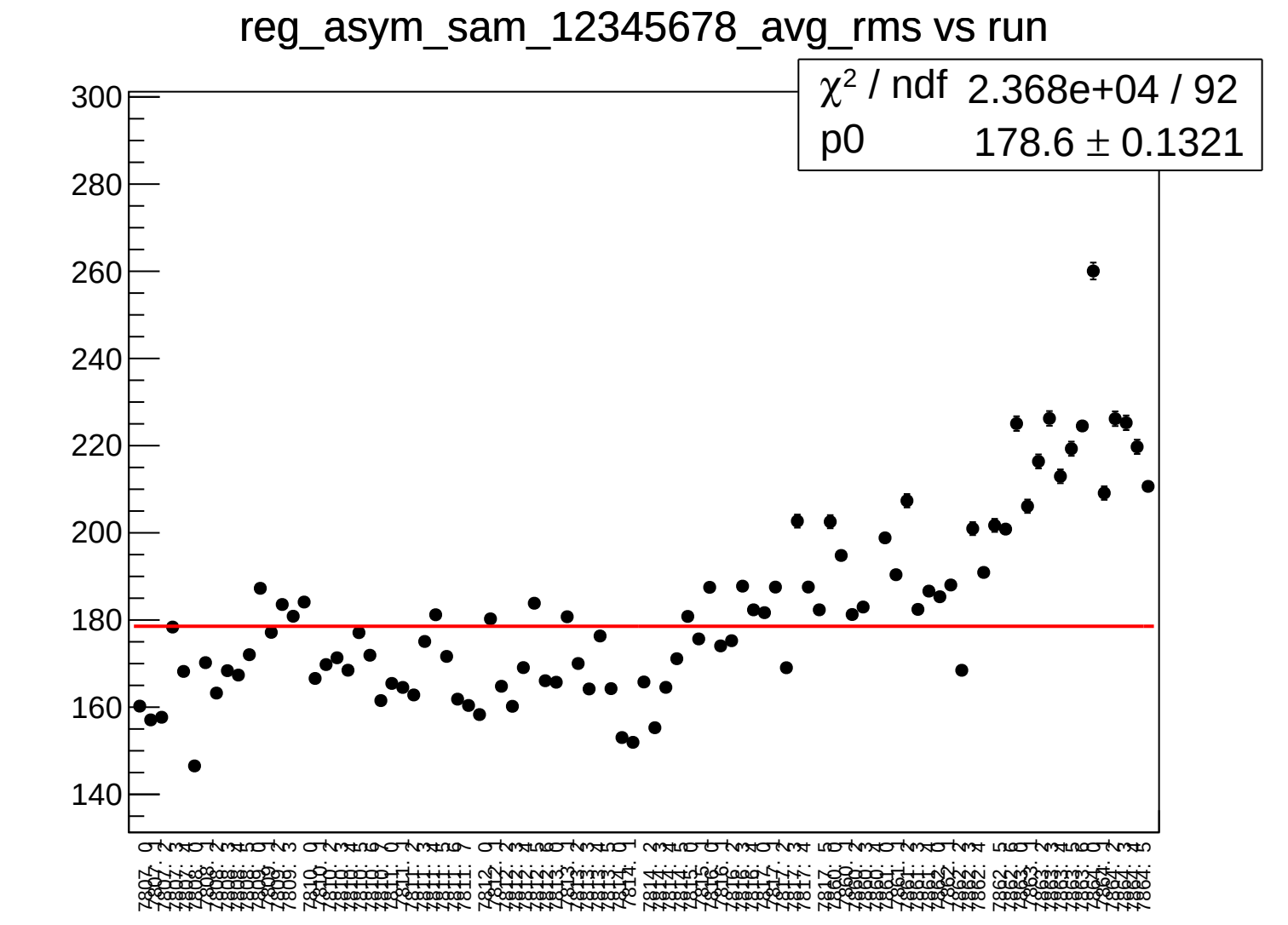

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.395e+04 / 92
p0 21.98 ± 0.01654
60
50
40
30
20
10

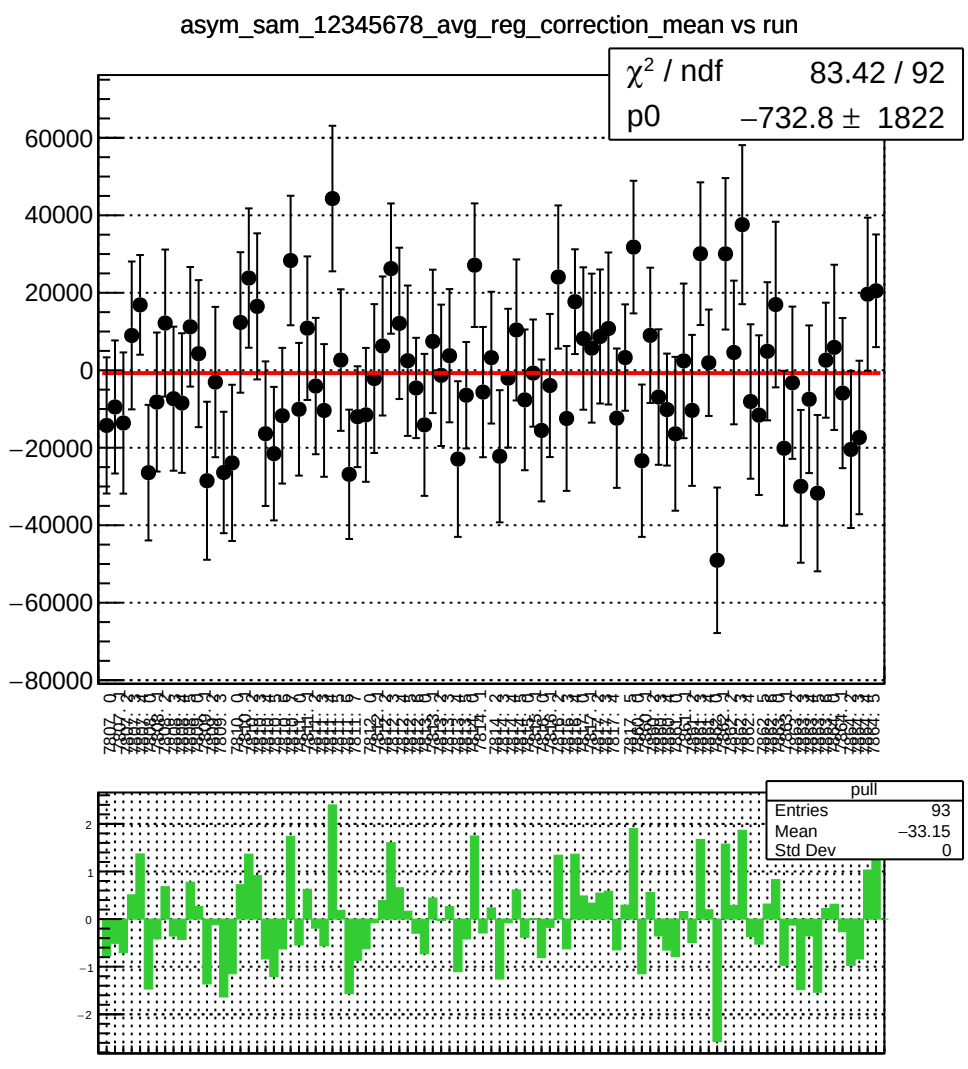

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 107.4 / 92
p0 9.681e−14 ± 7.054e−14
pull
Entries 93
Mean 246.9
Std Dev 0
pull1D
Entries 93
Mean −0.02039
Std Dev 1.074

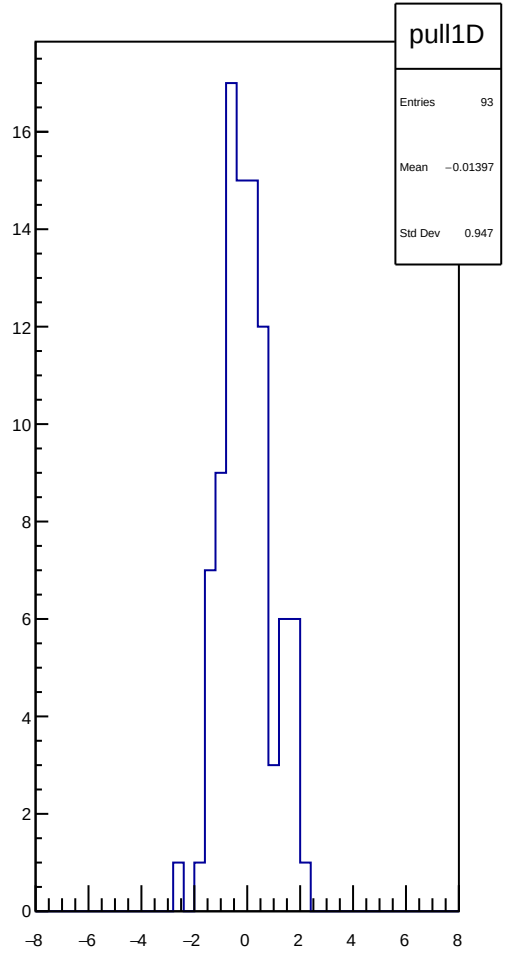

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.861e+05 / 92
p0 5.149e−11 ± 4.988e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

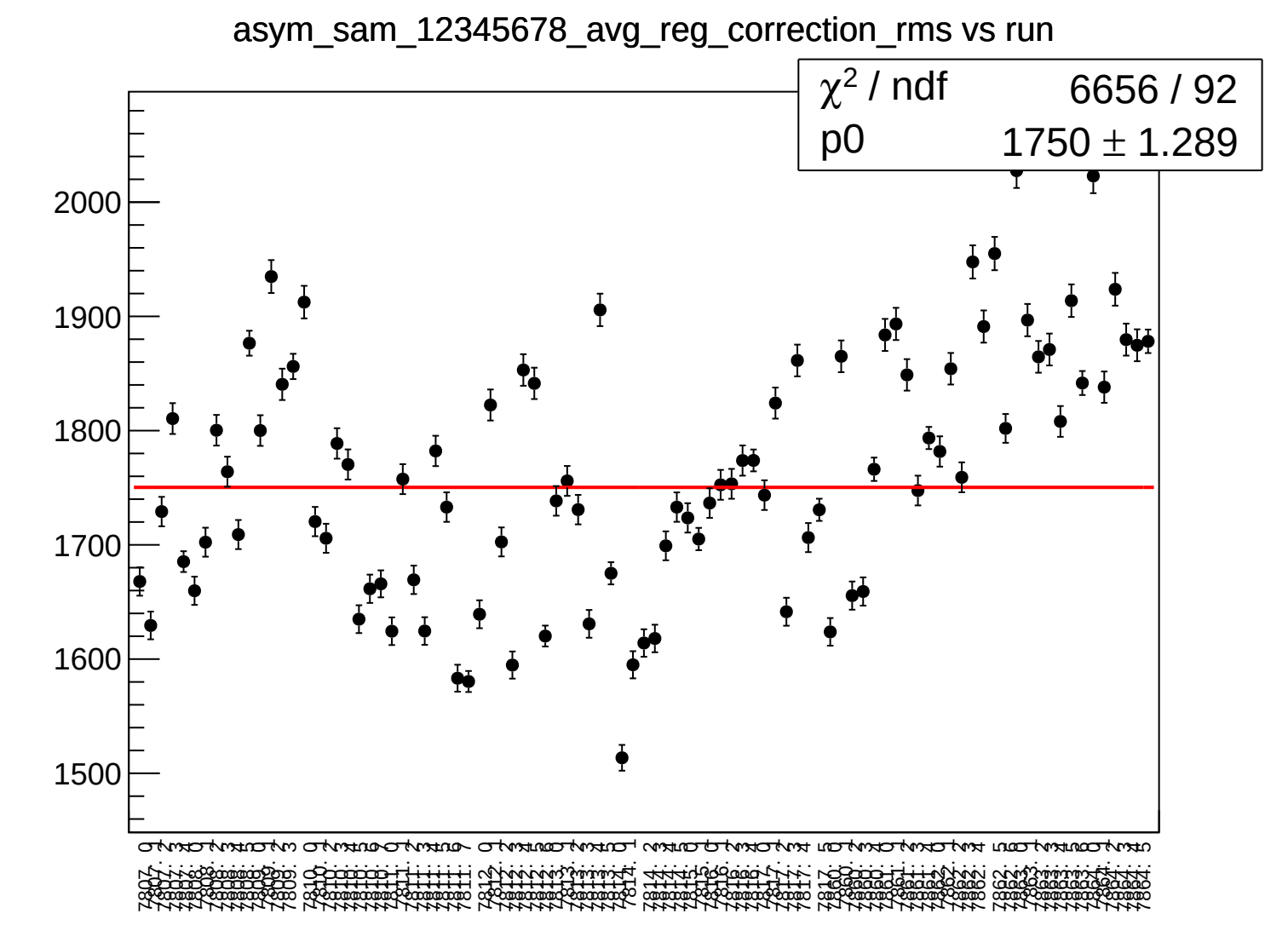

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 85.34 / 92
p0 −93.2 ± 186.8
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean −264.6
Std Dev 0
2
1
0
−1
−2

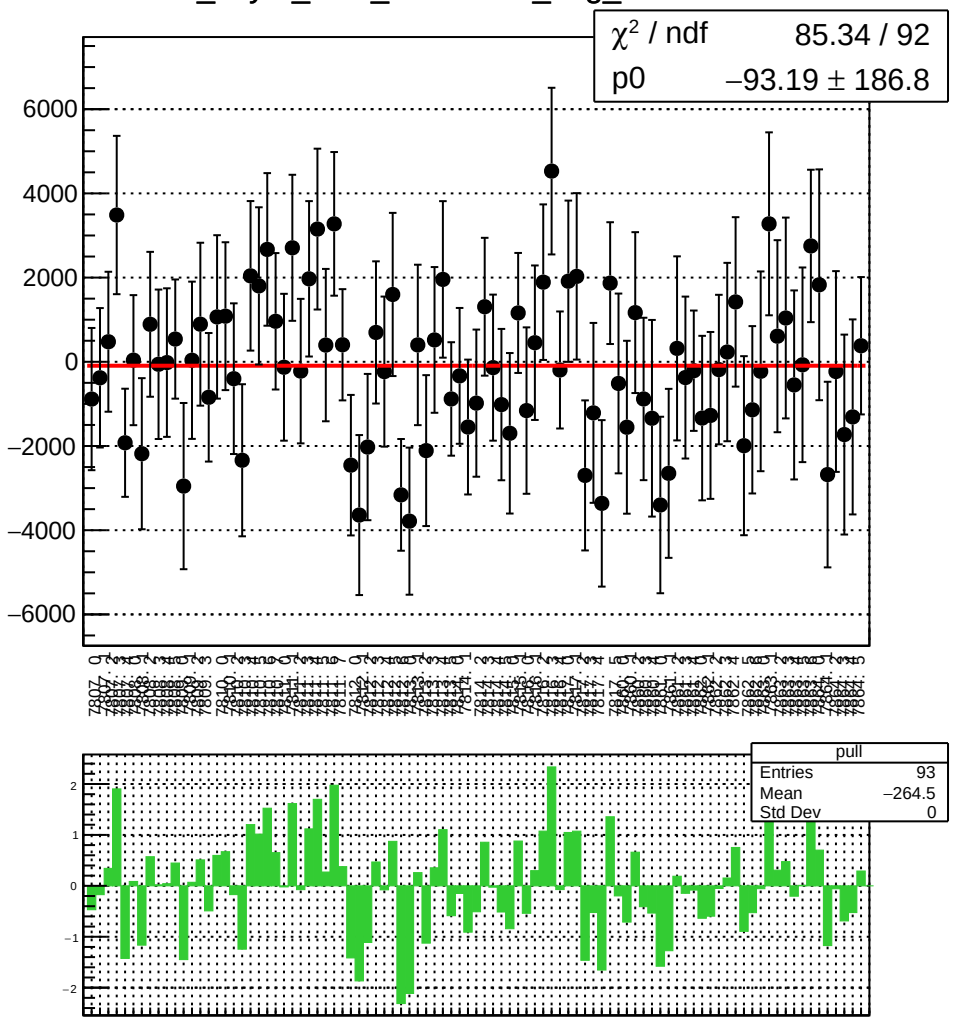

pull1D
Entries 93
Mean 0.005534
Std Dev 0.9579
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

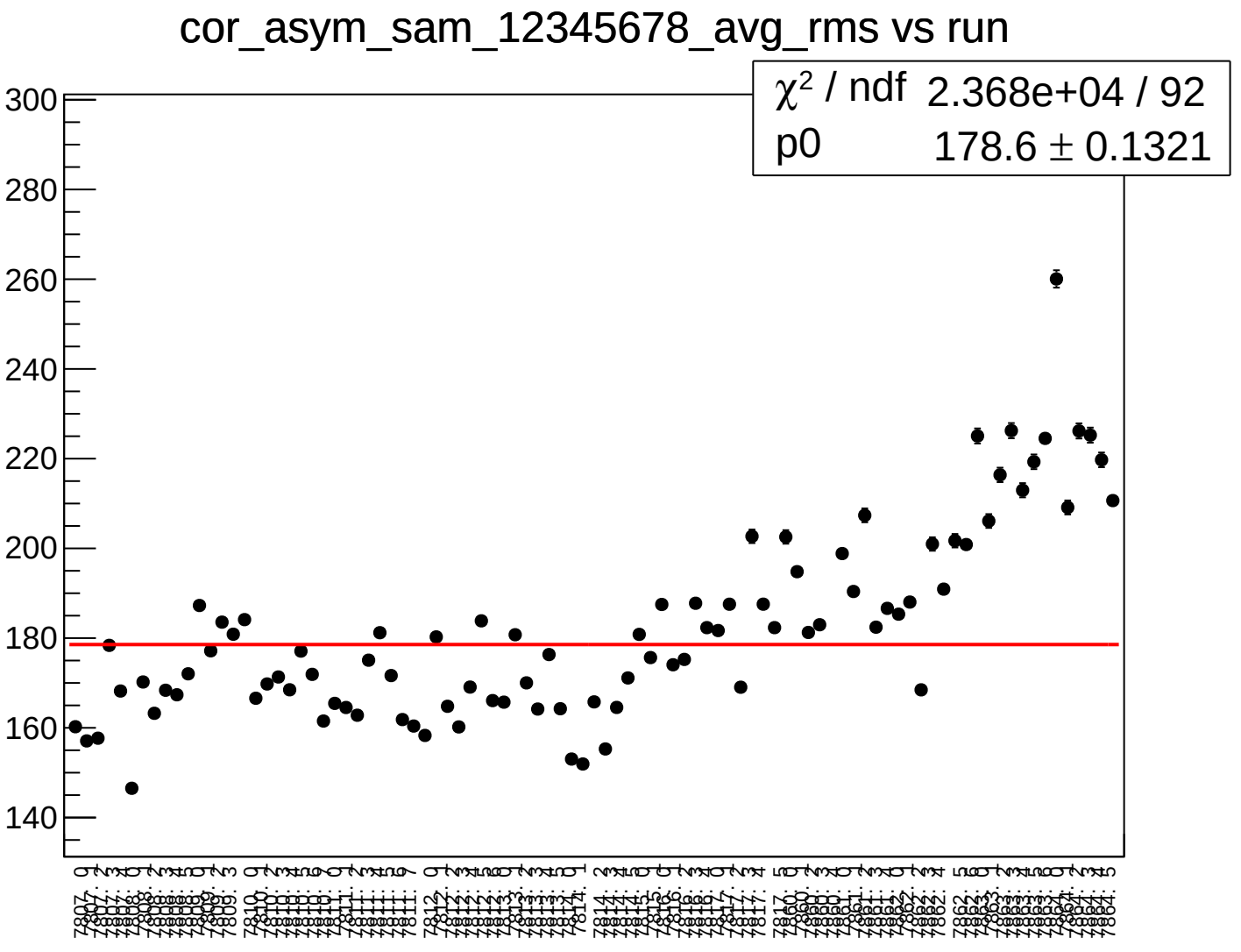

reg_asym_sam_12345678_avg_rms vs run
χ² / ndf 2.368e+04 / 92
p0 178.6 ± 0.1321
300
280
260
240
220
200
180
160
140

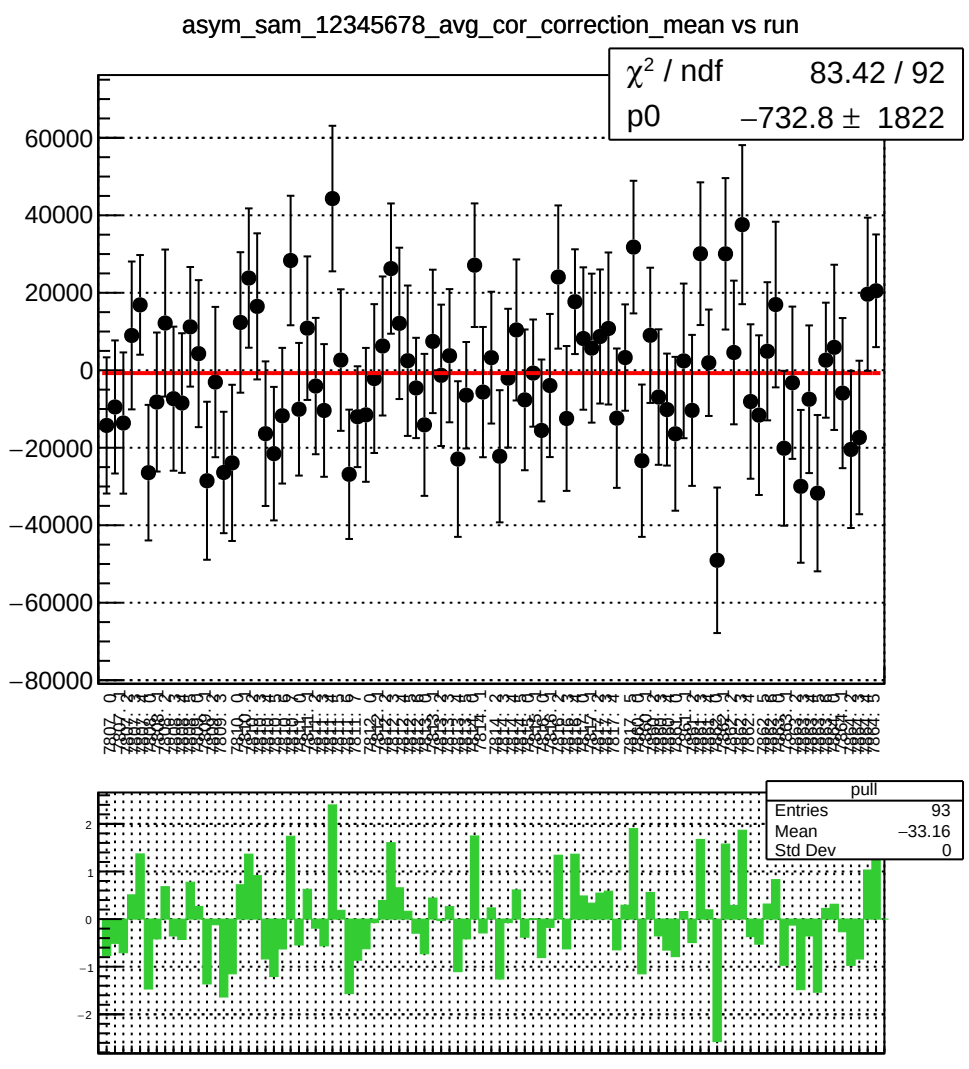

asym_sam_12345678_avg_reg_correction_mean vs run
χ² / ndf 83.42 / 92
p0 −732.8 ± 1822
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean −33.15
Std Dev 0
2
1
0
−1
−2

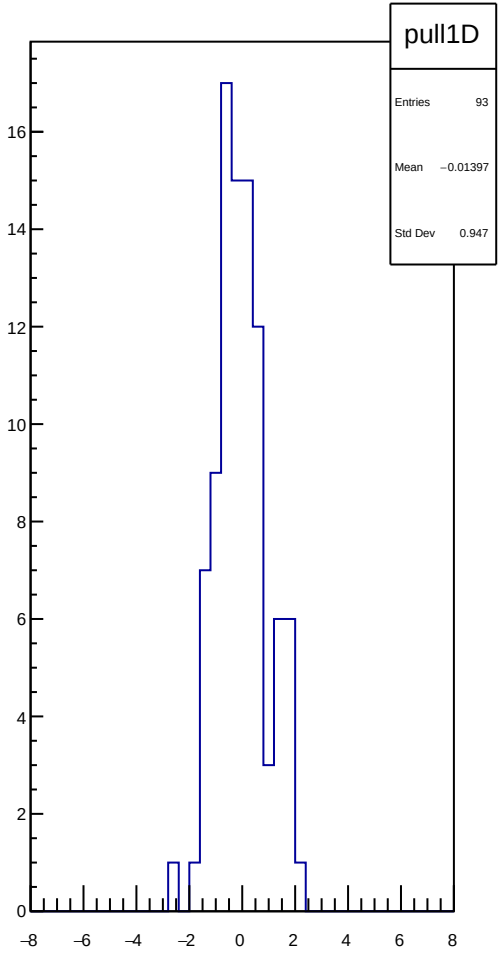

pull1D
Entries 93
Mean −0.01397
Std Dev 0.947
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

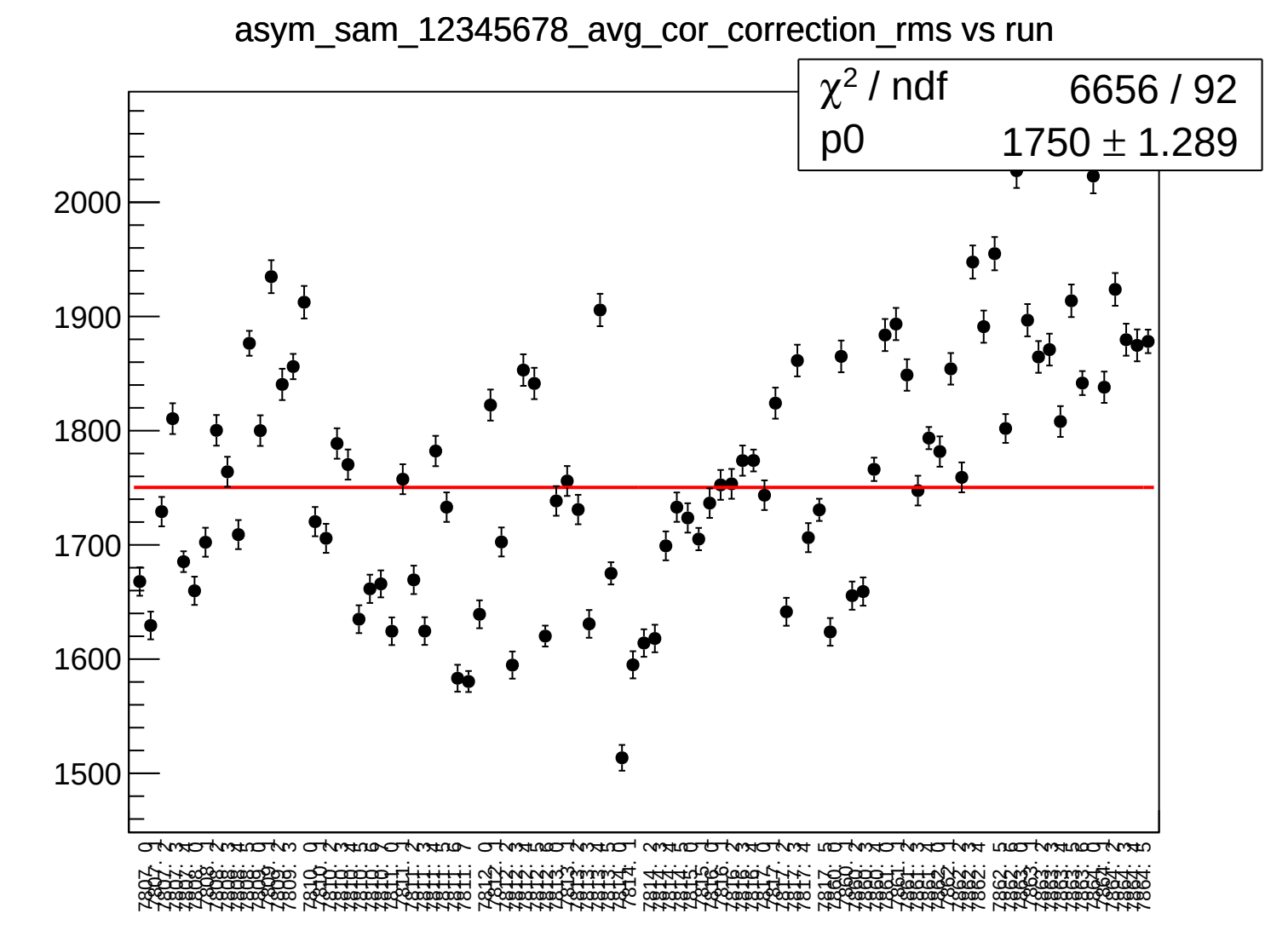

asym_sam_12345678_avg_reg_correction_rms vs run
χ² / ndf 6656 / 92
p0 1750 ± 1.289
2000
1900
1800
1700
1600
1500

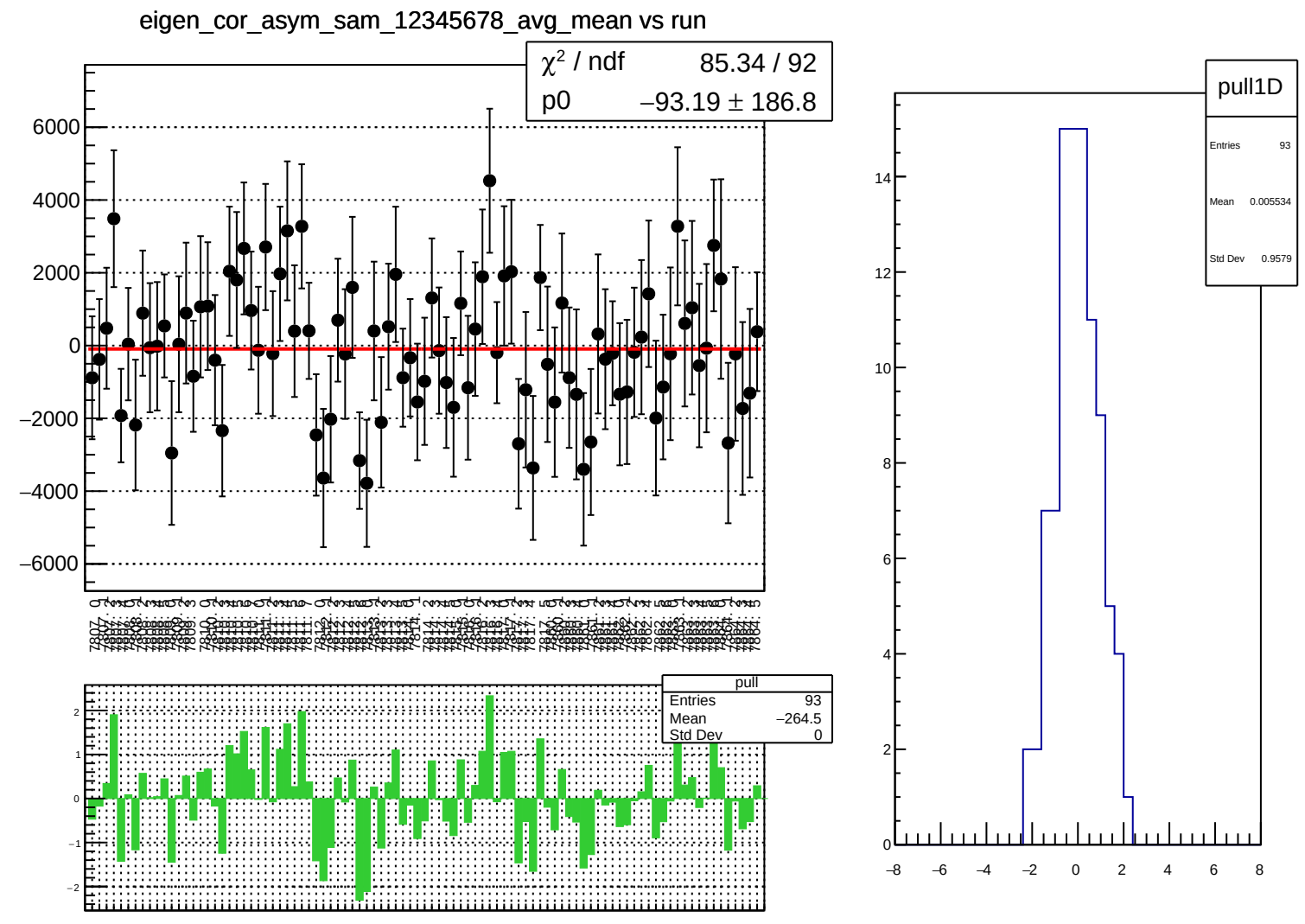

cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 85.34 / 92
p0 −93.19 ± 186.8
pull
Entries 93
Mean −264.5
Std Dev 0
pull1D
Entries 93
Mean 0.005534
Std Dev 0.9579

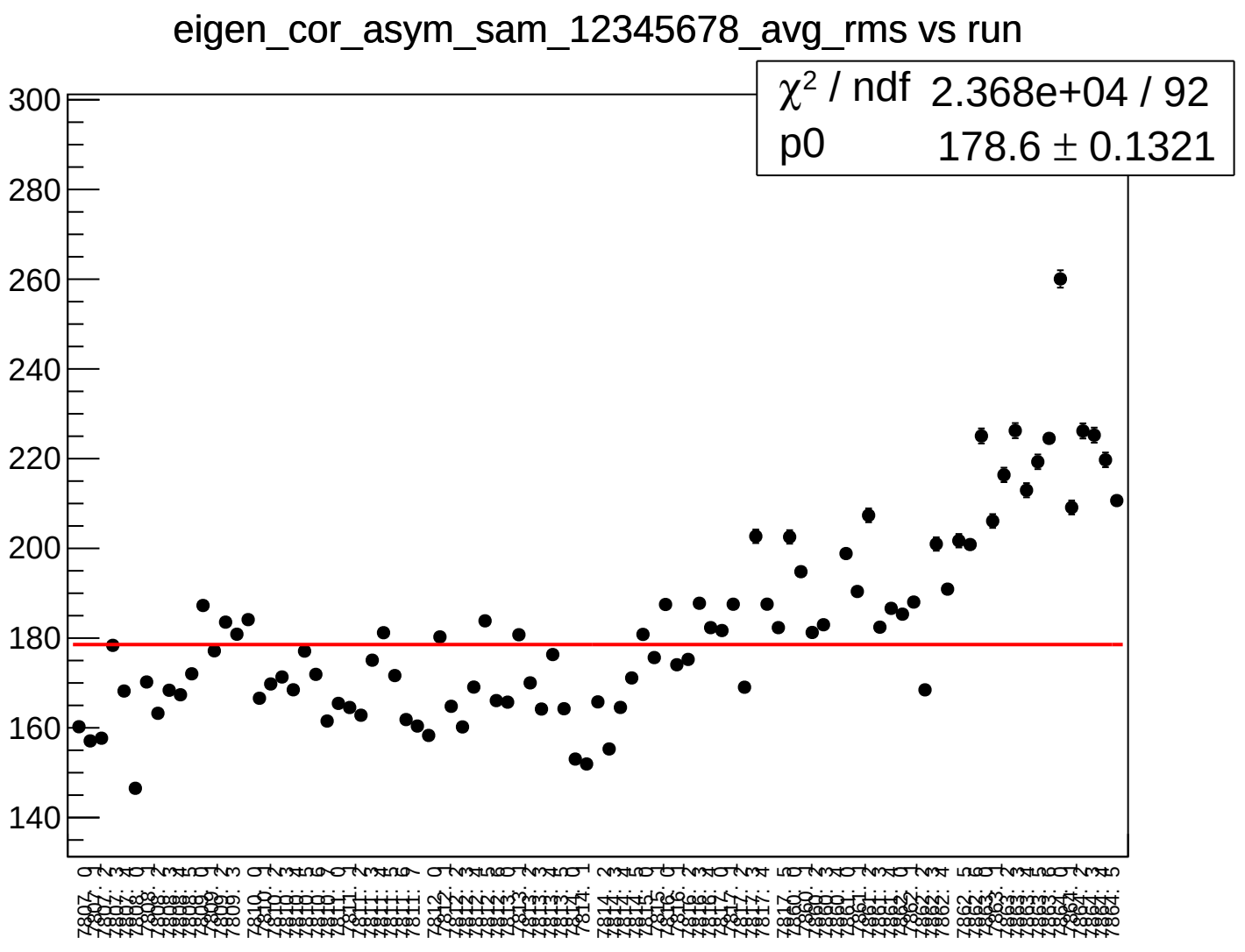

cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 2.368e+04 / 92
p0 178.6 ± 0.1321
300
280
260
240
220
200
180
160
140

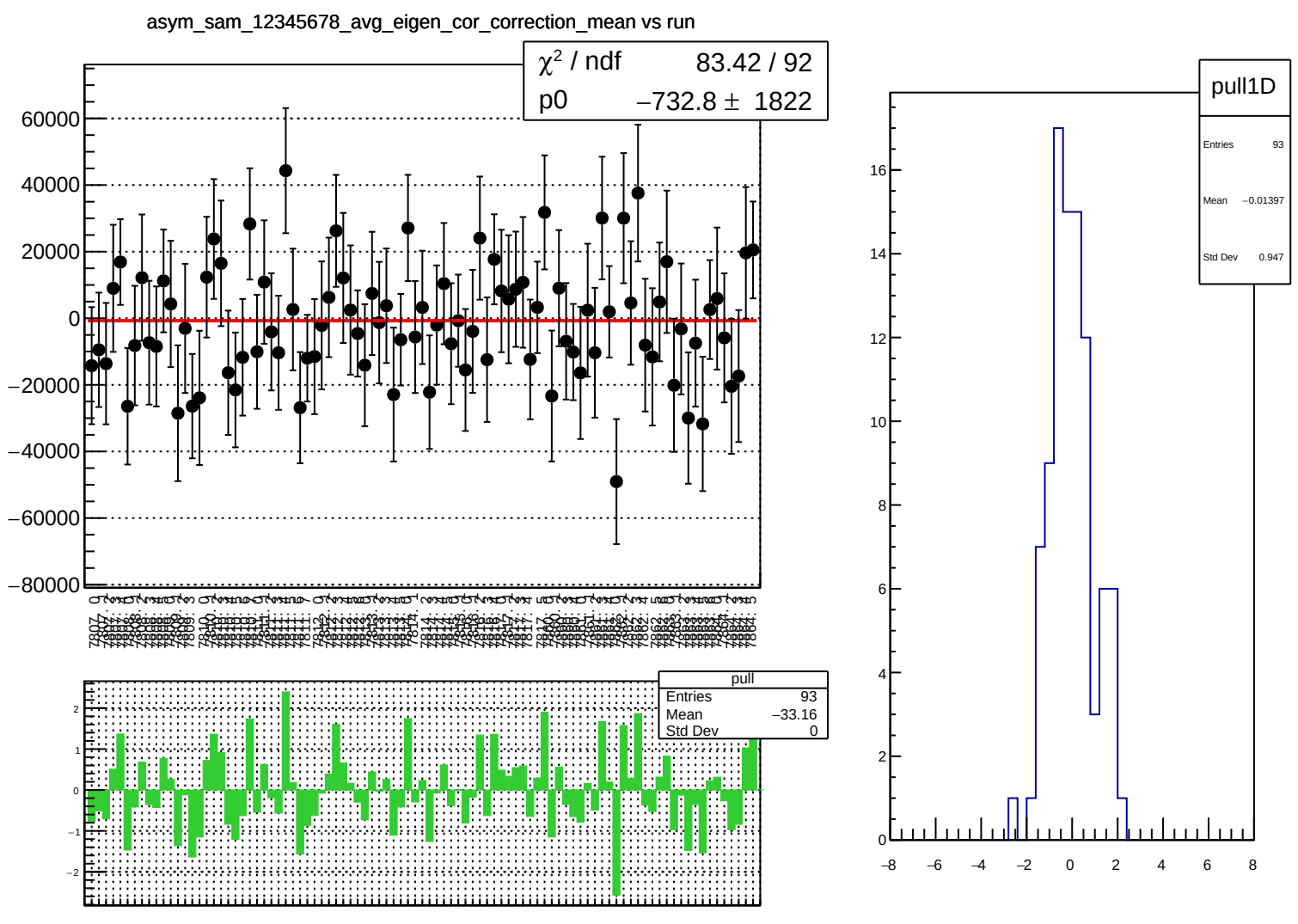

asym_sam_12345678_avg_cor_correction_mean vs run
χ² / ndf 83.42 / 92
p0 −732.8 ± 1822
pull
Entries 93
Mean −33.16
Std Dev 0

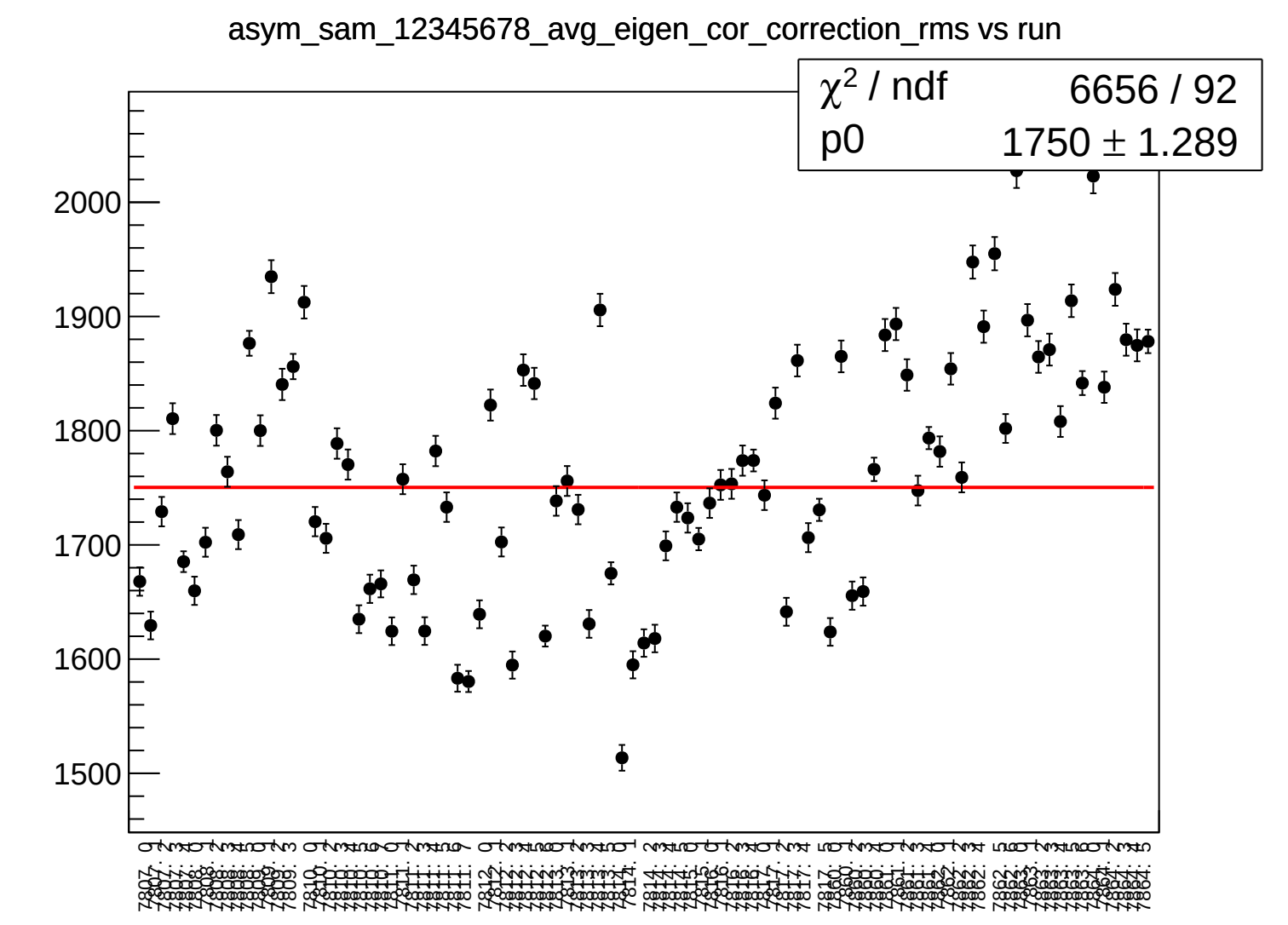

pull1D
Entries 93
Mean −0.01397
Std Dev 0.947

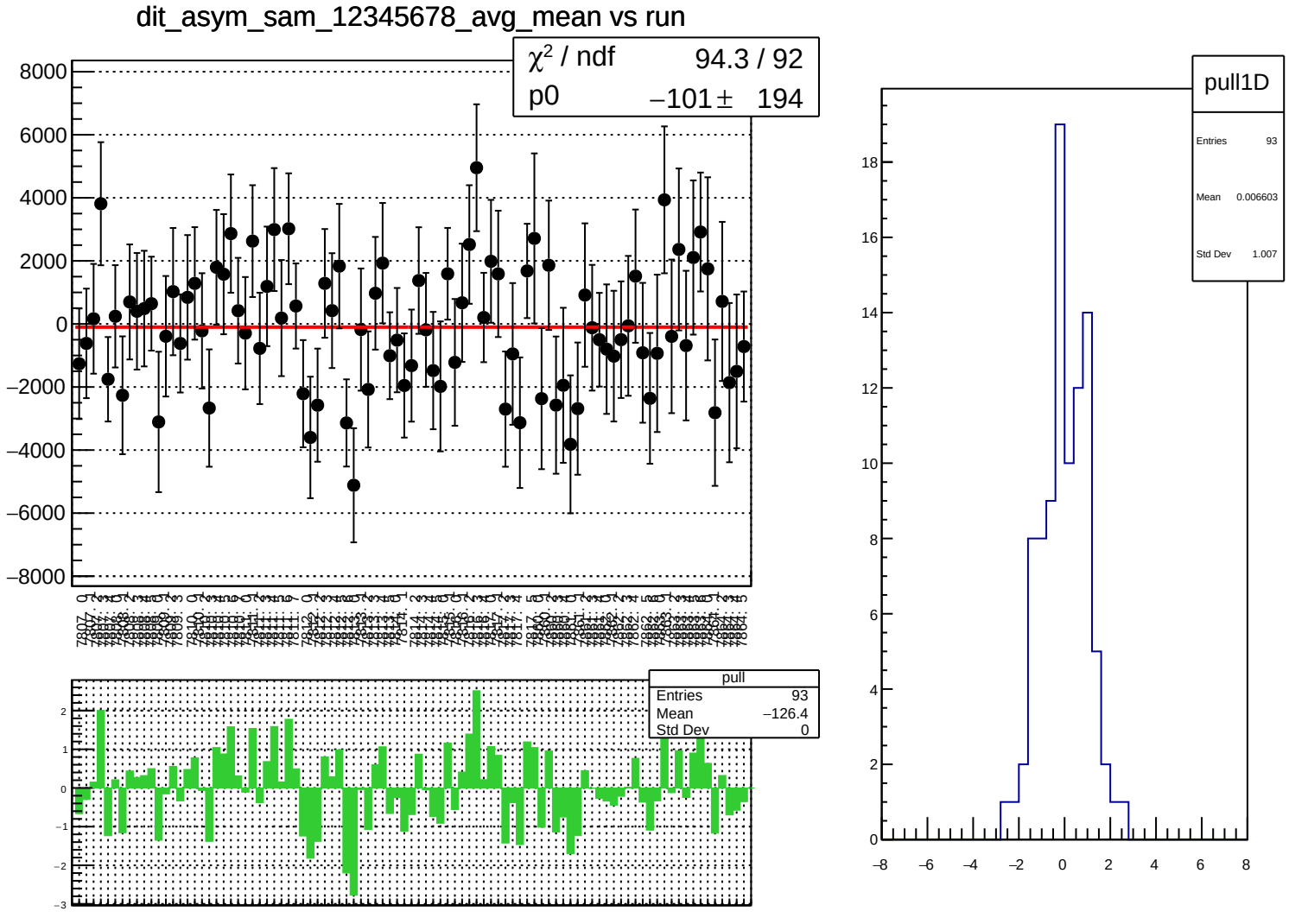

asym_sam_12345678_avg_cor_correction_rms vs run
χ² / ndf 6656 / 92
p0 1750 ± 1.289
2000
1900
1800
1700
1600
1500

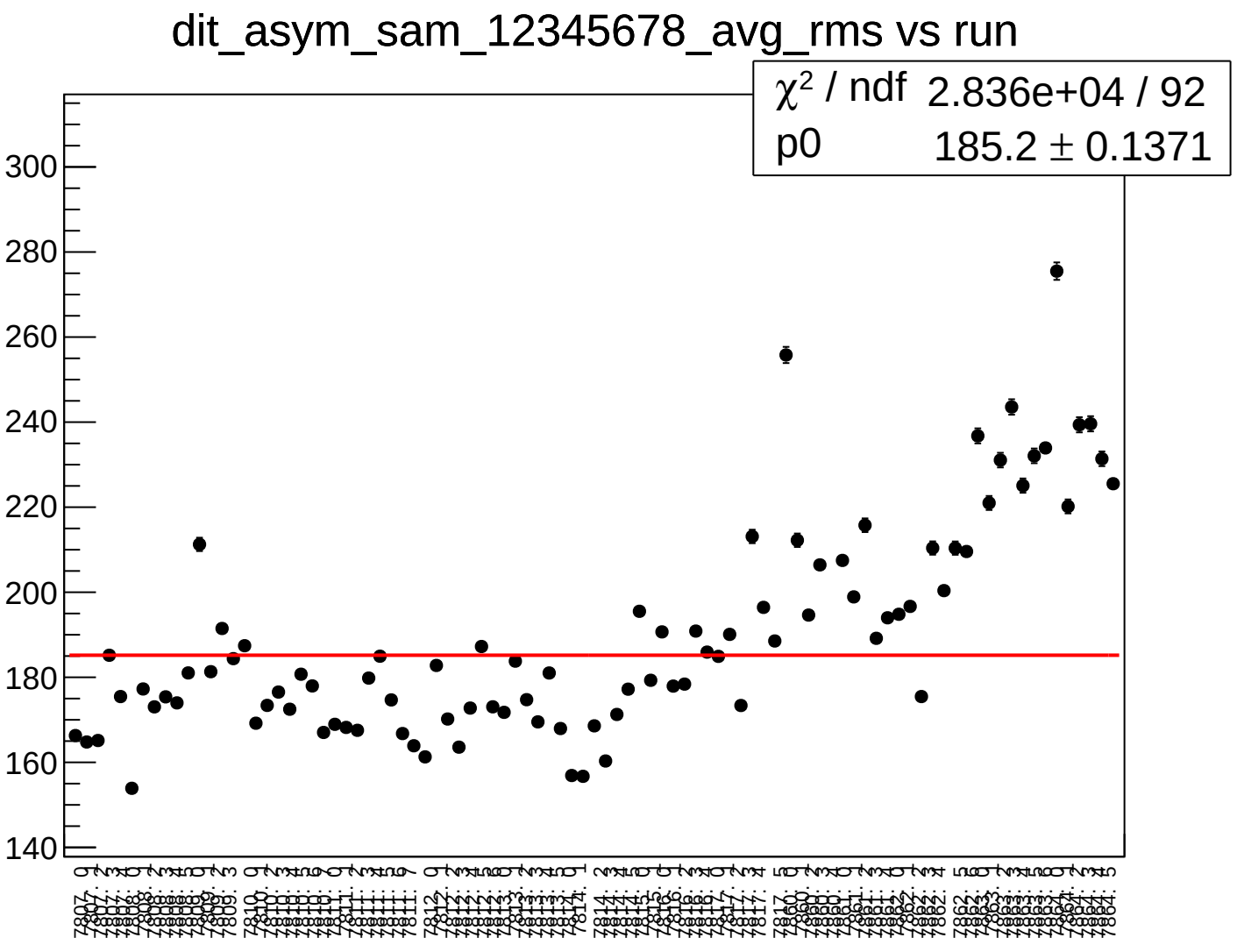

eigen_cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 85.34 / 92
p0 −93.19 ± 186.8
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean −264.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.005534
Std Dev 0.9579
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

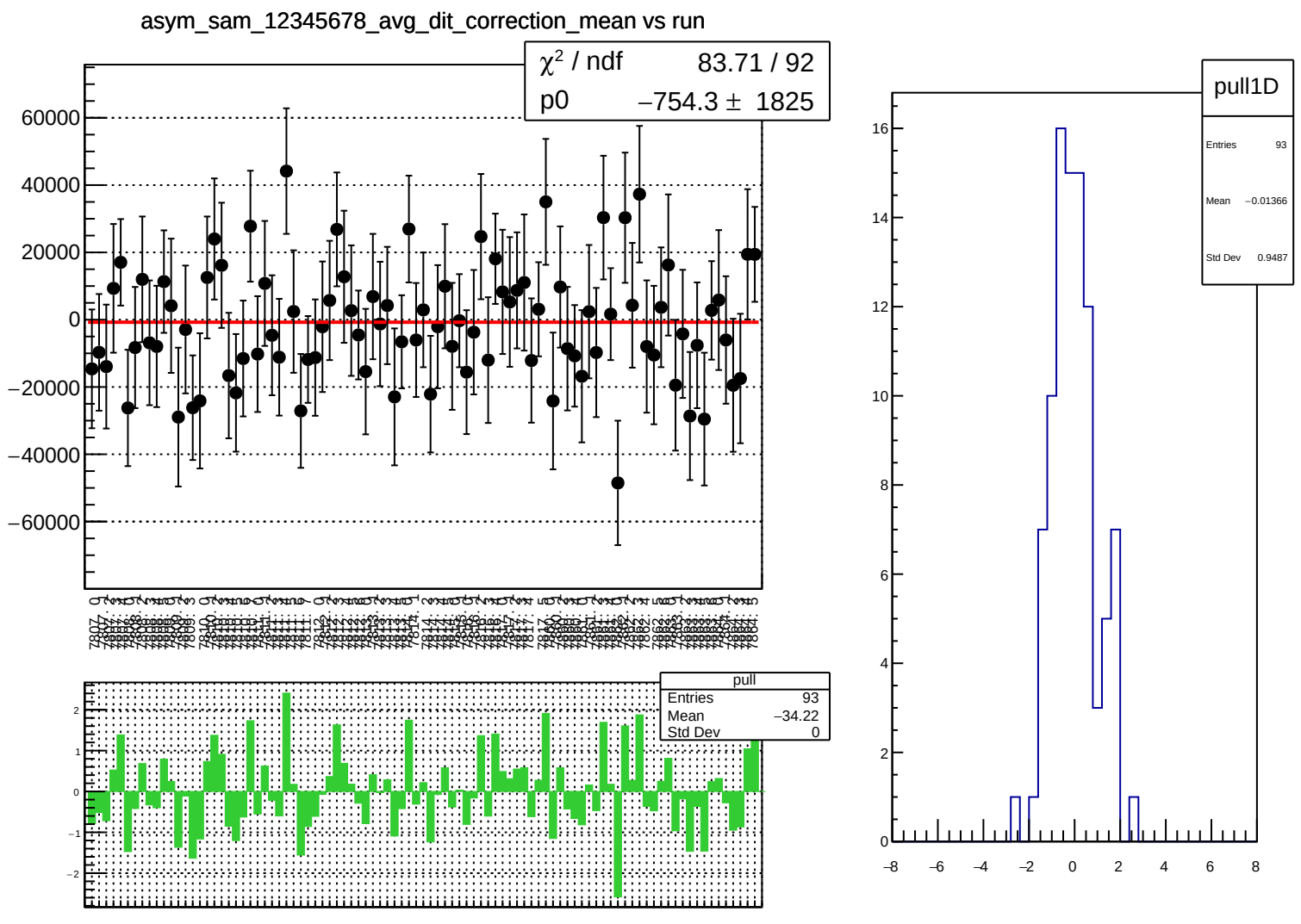

eigen_cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 2.368e+04 / 92
p0 178.6 ± 0.1321
300
280
260
240
220
200
180
160
140

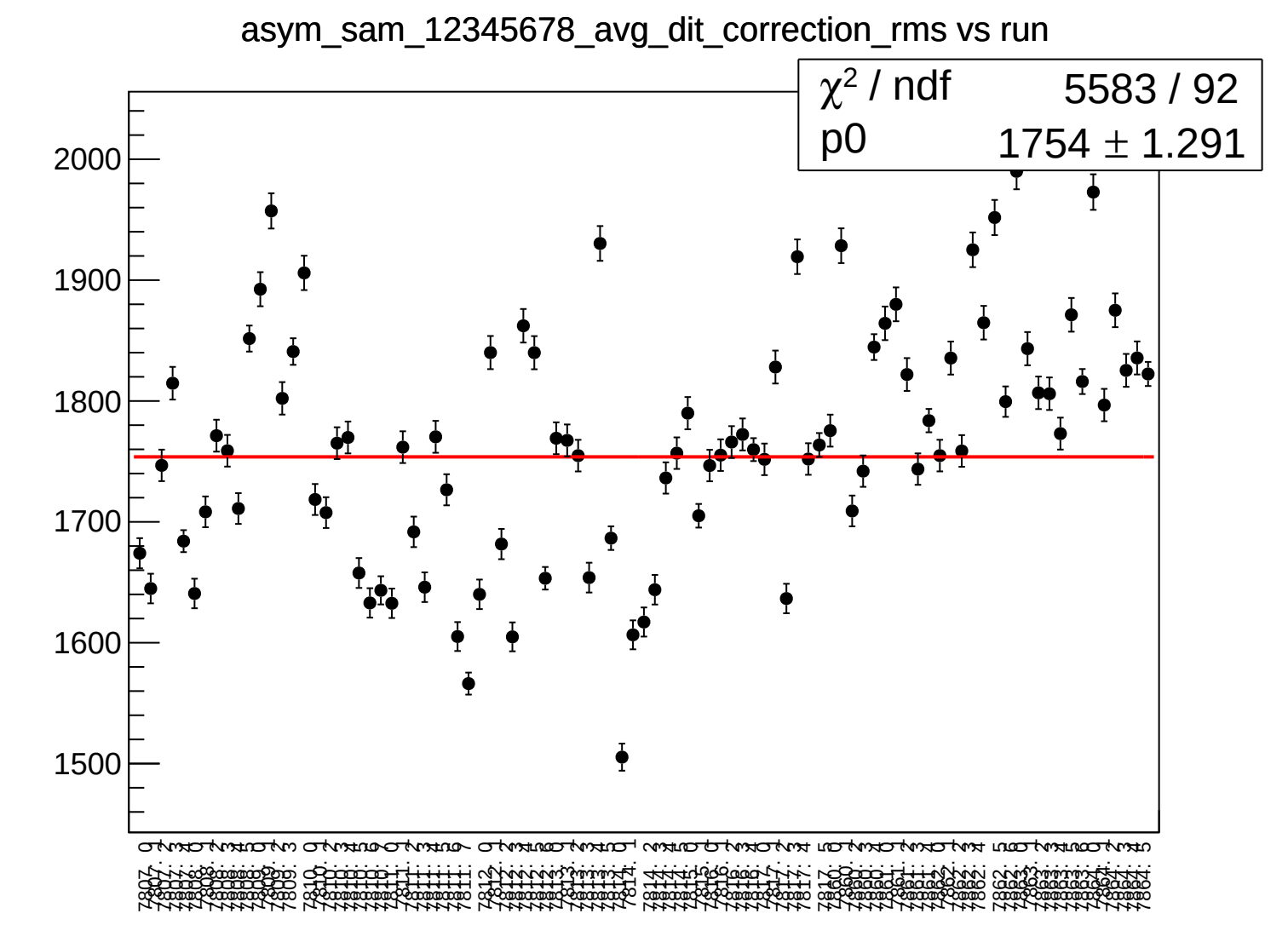

asym_sam_12345678_avg_eigen_cor_correction_mean vs run
χ² / ndf 83.42 / 92
p0 −732.8 ± 1822
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean −33.16
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.01397
Std Dev 0.947
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

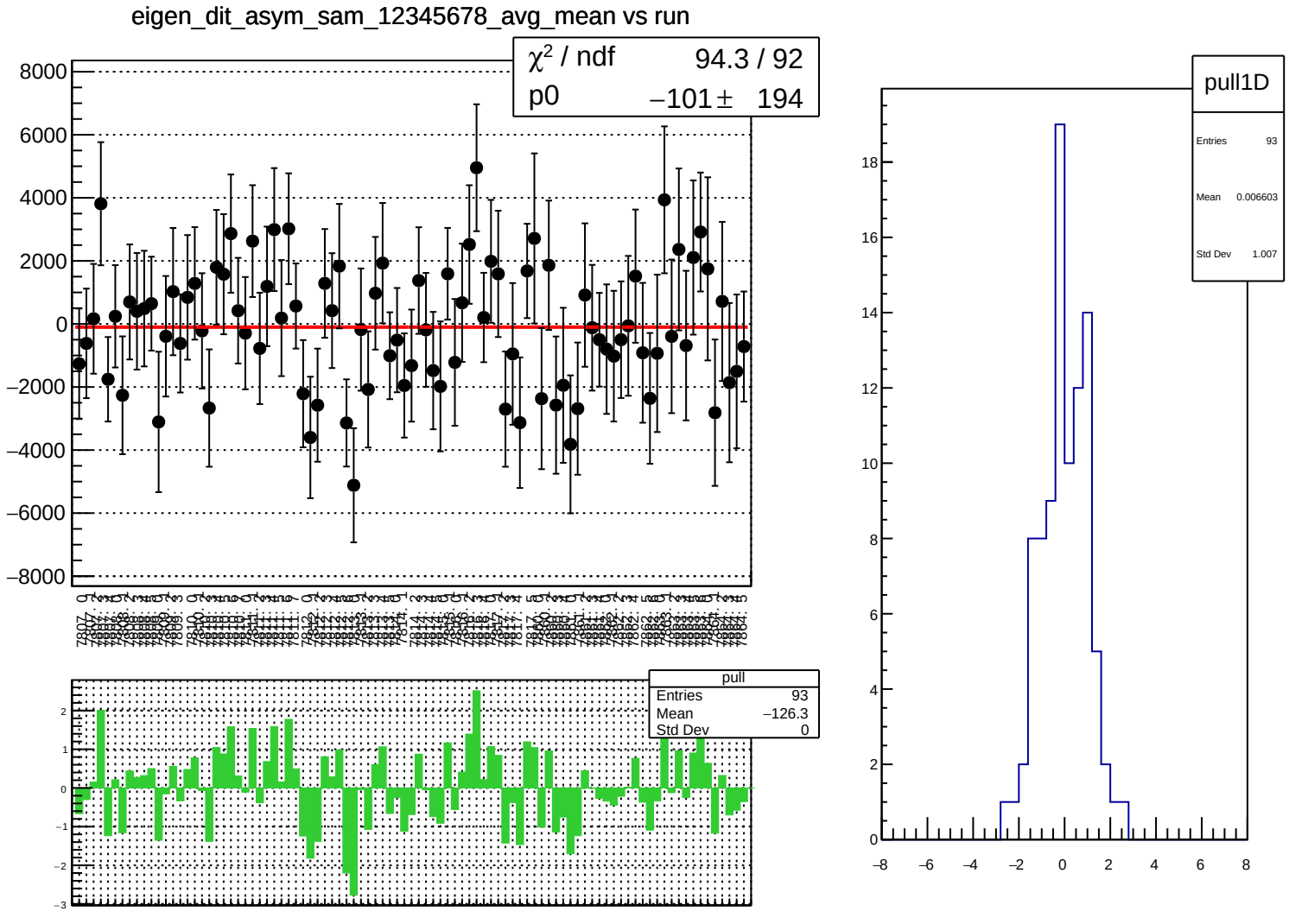

asym_sam_12345678_avg_eigen_cor_correction_rms vs run
χ² / ndf 6656 / 92
p0 1750 ± 1.289
2000
1900
1800
1700
1600
1500

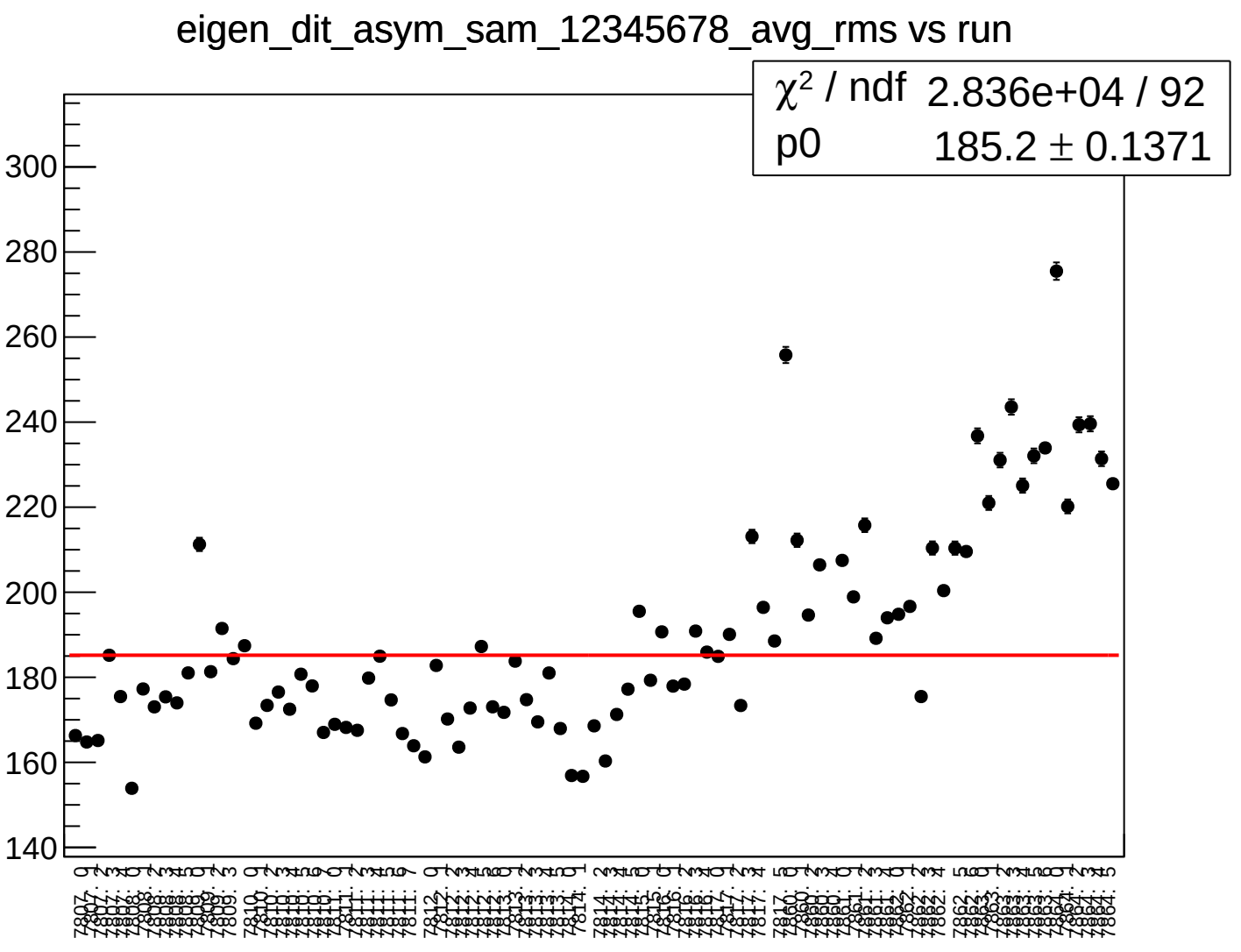

dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 94.3 / 92
p0 −101 ± 194
pull
Entries 93
Mean −126.4
Std Dev 0
pull1D
Entries 93
Mean 0.006603
Std Dev 1.007

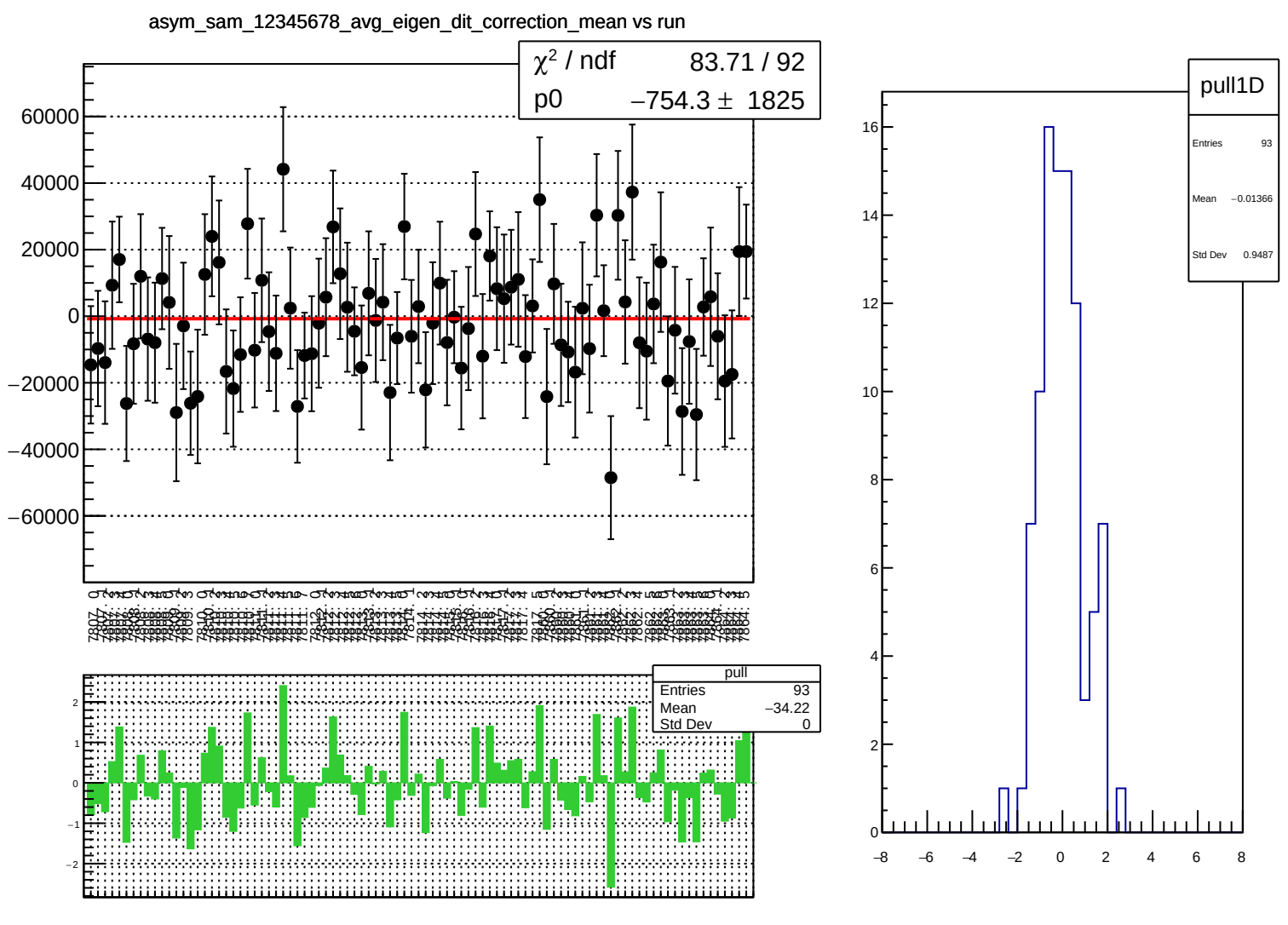

dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 2.836e+04 / 92
p0 185.2 ± 0.1371
300
280
260
240
220
200
180
160
140

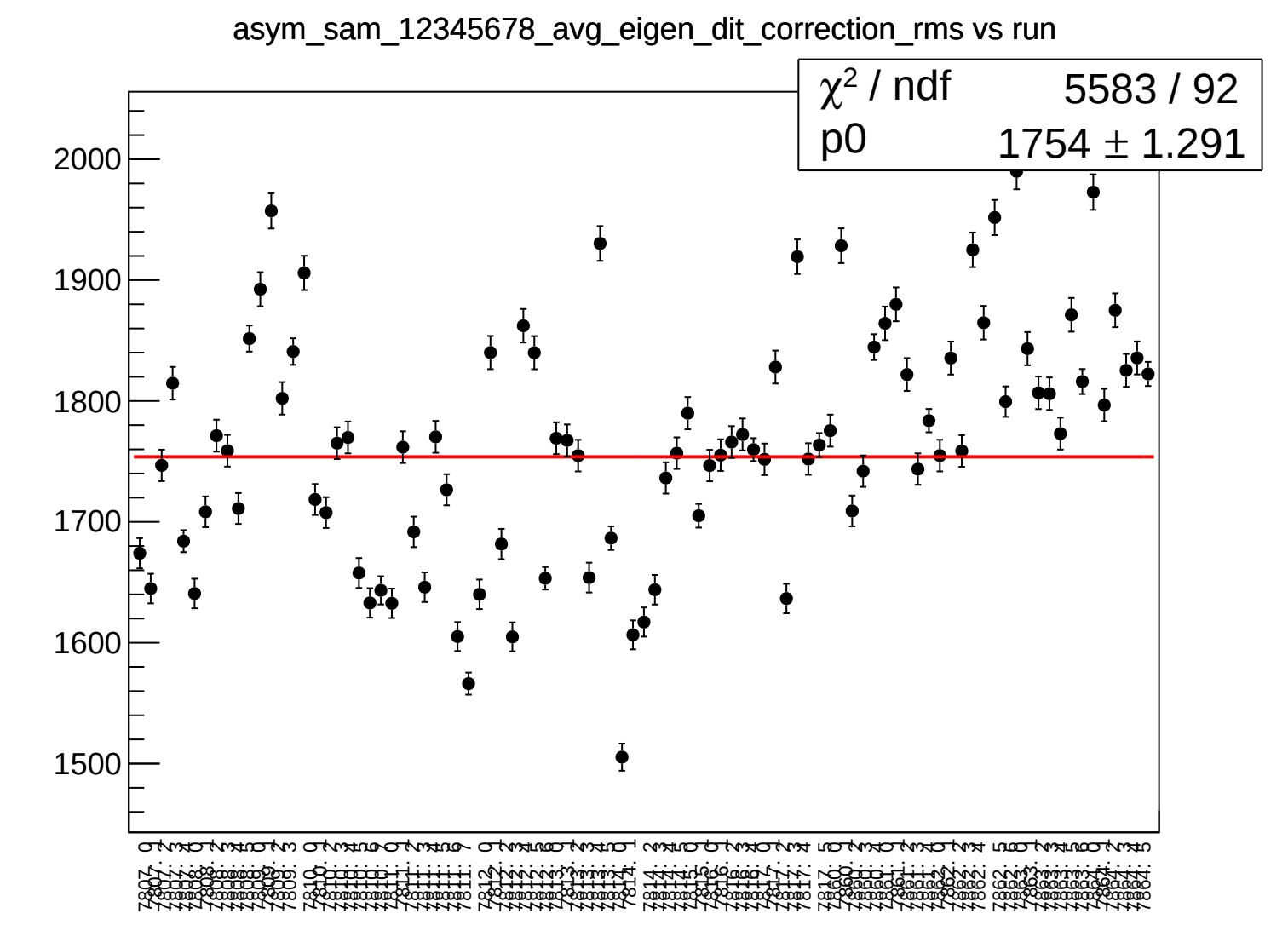

asym_sam_12345678_avg_dit_correction_mean vs run
χ² / ndf 83.71 / 92
p0 −754.3 ± 1825
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −34.22
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.01366
Std Dev 0.9487
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

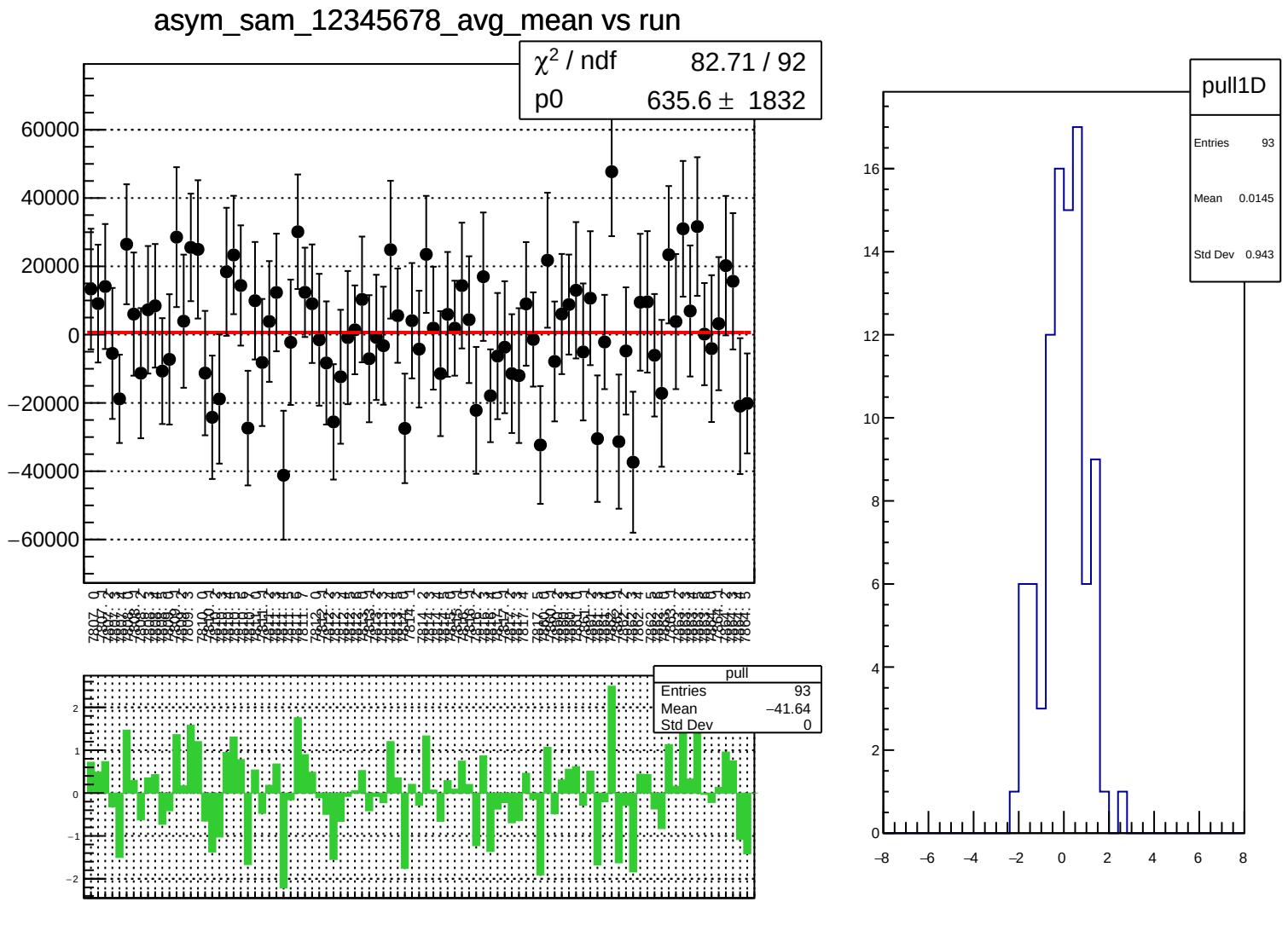

asym_sam_12345678_avg_dit_correction_rms vs run
χ² / ndf 5583 / 92
p0 1754 ± 1.291
2000
1900
1800
1700
1600
1500

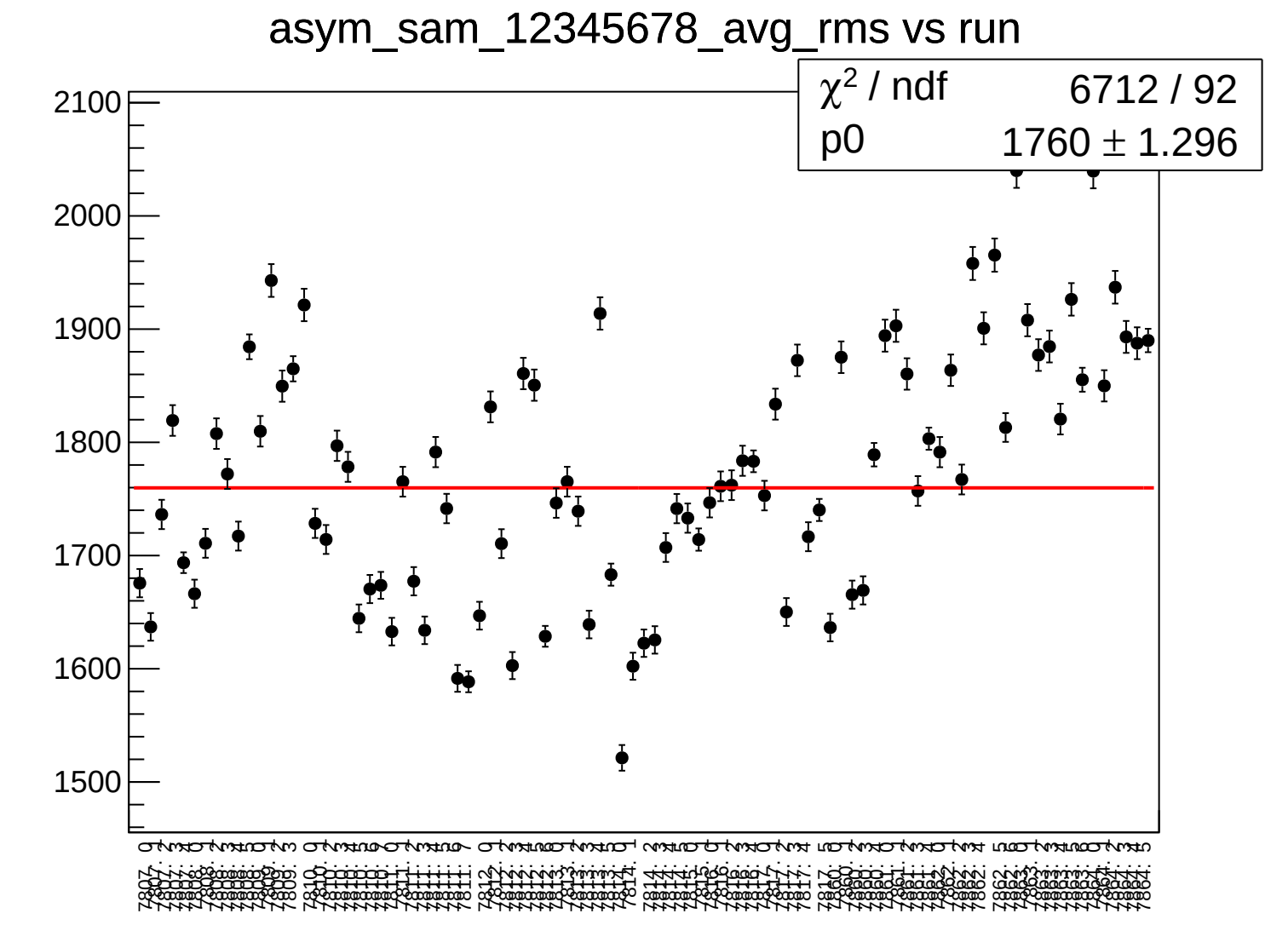

eigen_dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 94.3 / 92
p0 −101 ± 194
pull
Entries 93
Mean −126.3
Std Dev 0
pull1D
Entries 93
Mean 0.006603
Std Dev 1.007

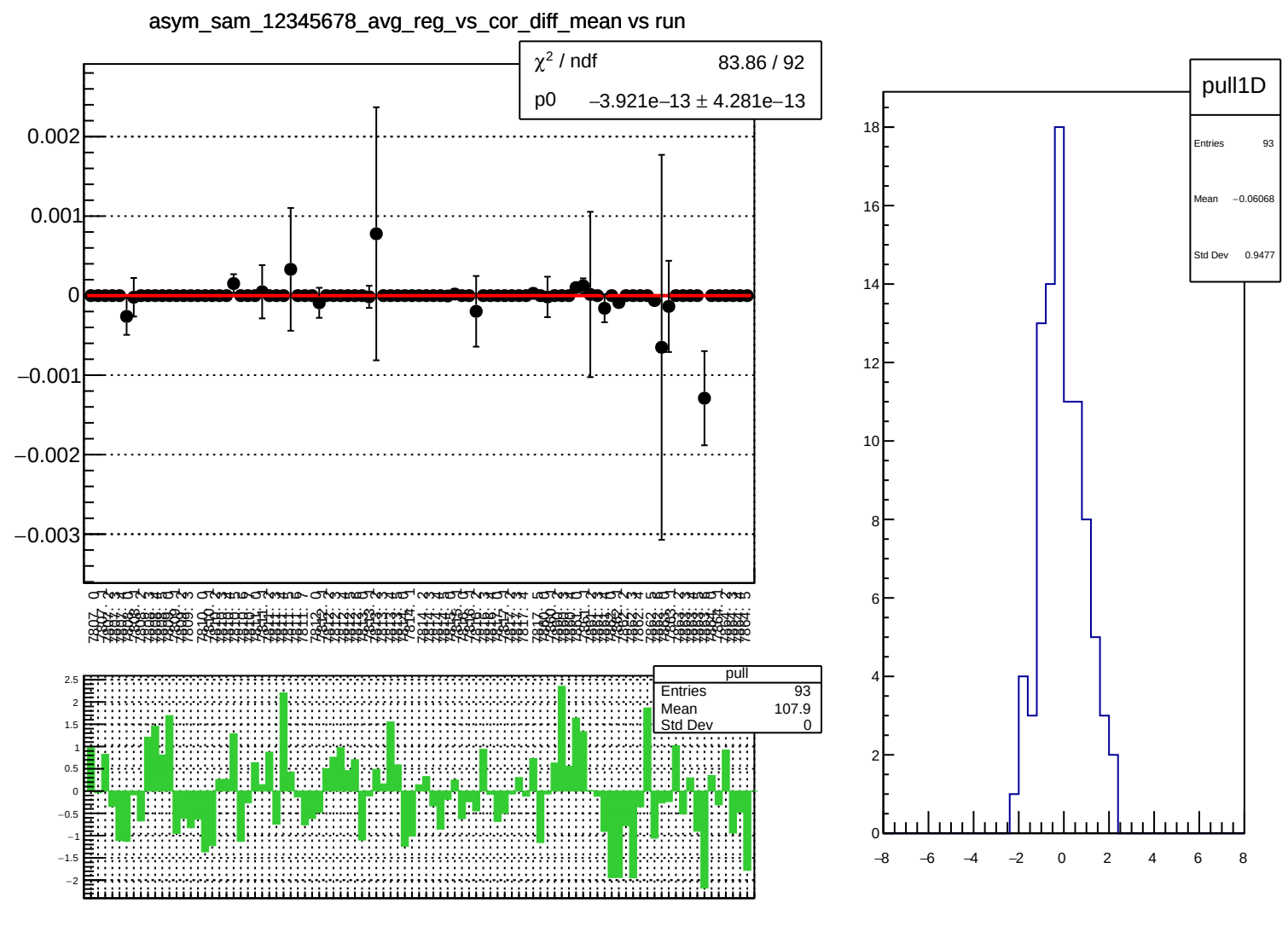

eigen_dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 2.836e+04 / 92
p0 185.2 ± 0.1371
300
280
260
240
220
200
180
160
140

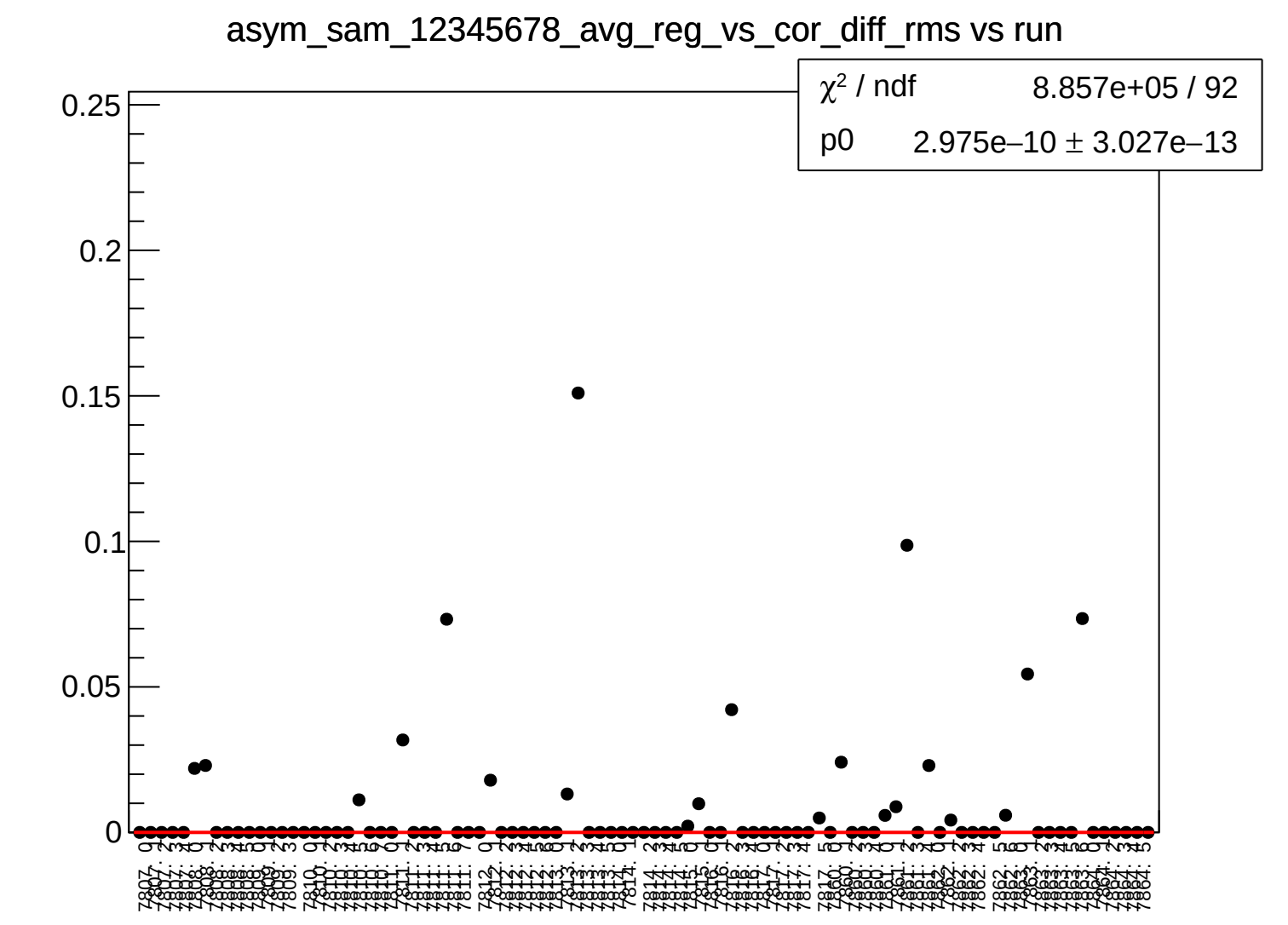

asym_sam_12345678_avg_eigen_dit_correction_mean vs run
χ² / ndf 83.71 / 92
p0 −754.3 ± 1825
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −34.22
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.01366
Std Dev 0.9487
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

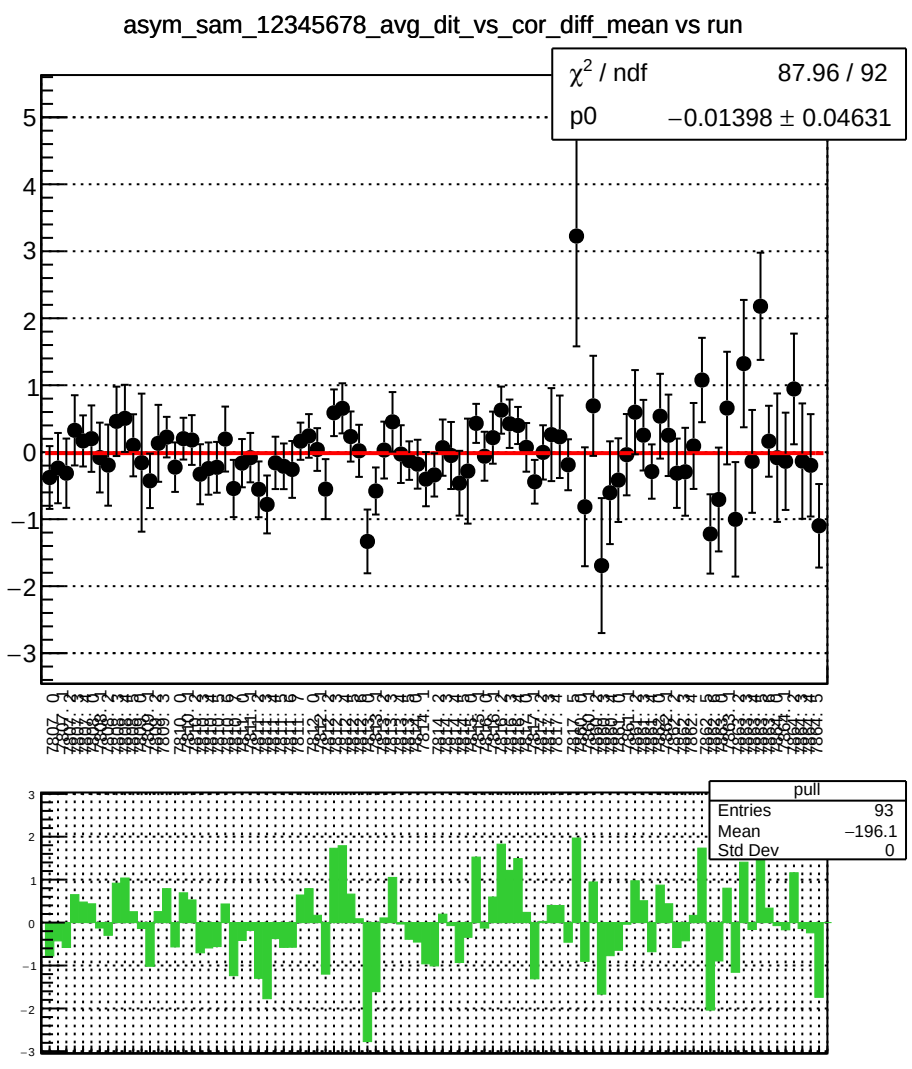

asym_sam_12345678_avg_eigen_dit_correction_rms vs run
χ² / ndf 5583 / 92
p0 1754 ± 1.291
2000
1900
1800
1700
1600
1500

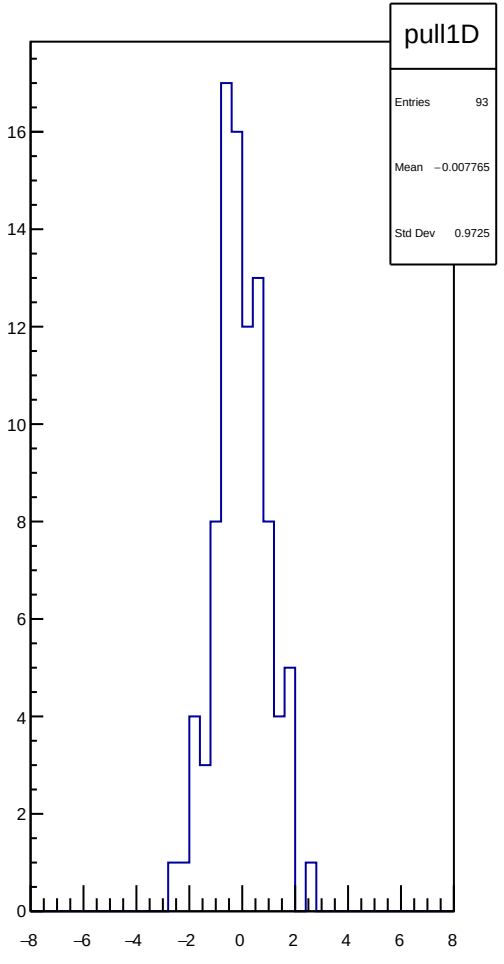

asym_sam_12345678_avg_mean vs run
χ² / ndf 82.71 / 92
p0 635.6 ± 1832
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −41.64
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.0145
Std Dev 0.943
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

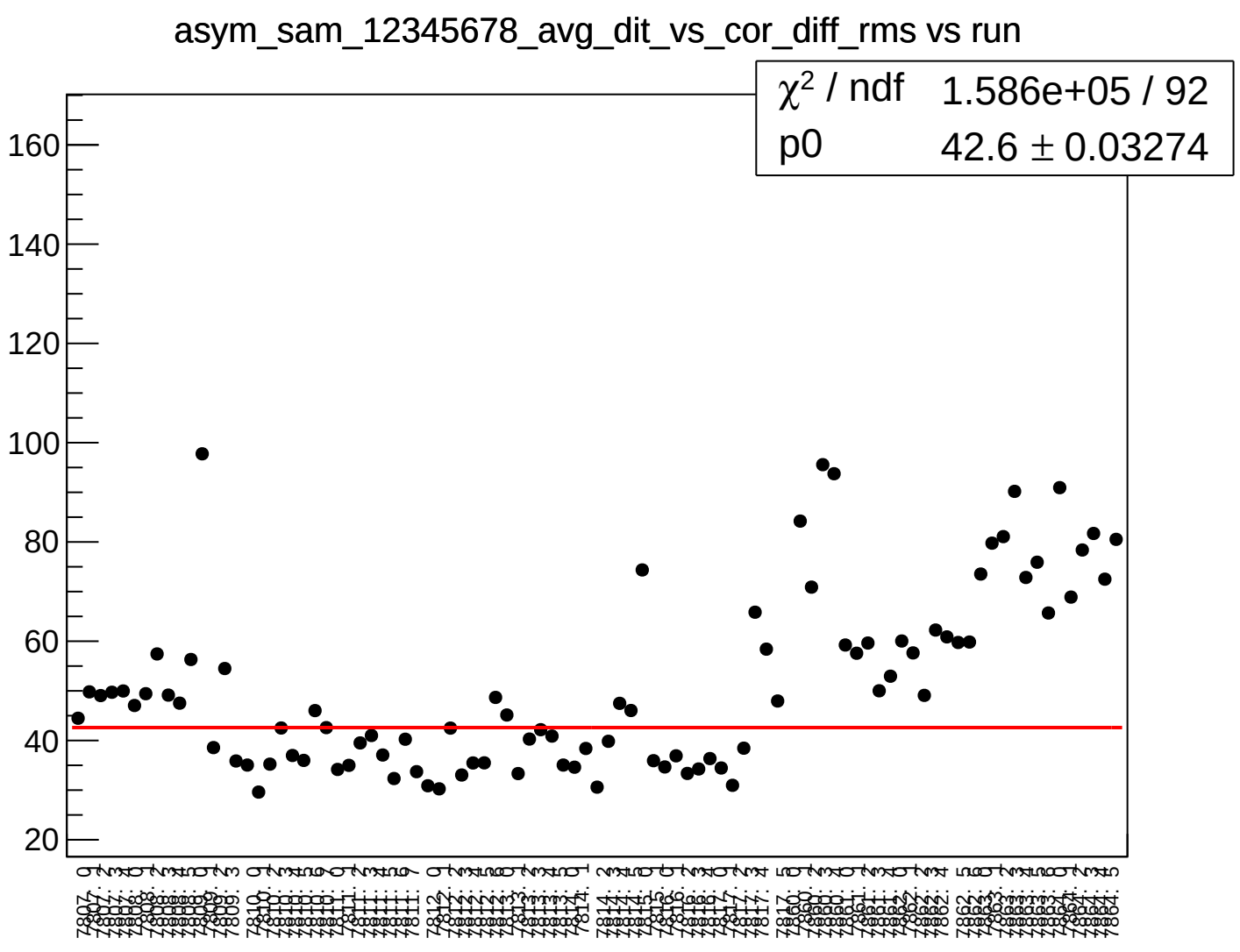

asym_sam_12345678_avg_rms vs run
χ² / ndf 6712 / 92
p0 1760 ± 1.296
2100
2000
1900
1800
1700
1600
1500

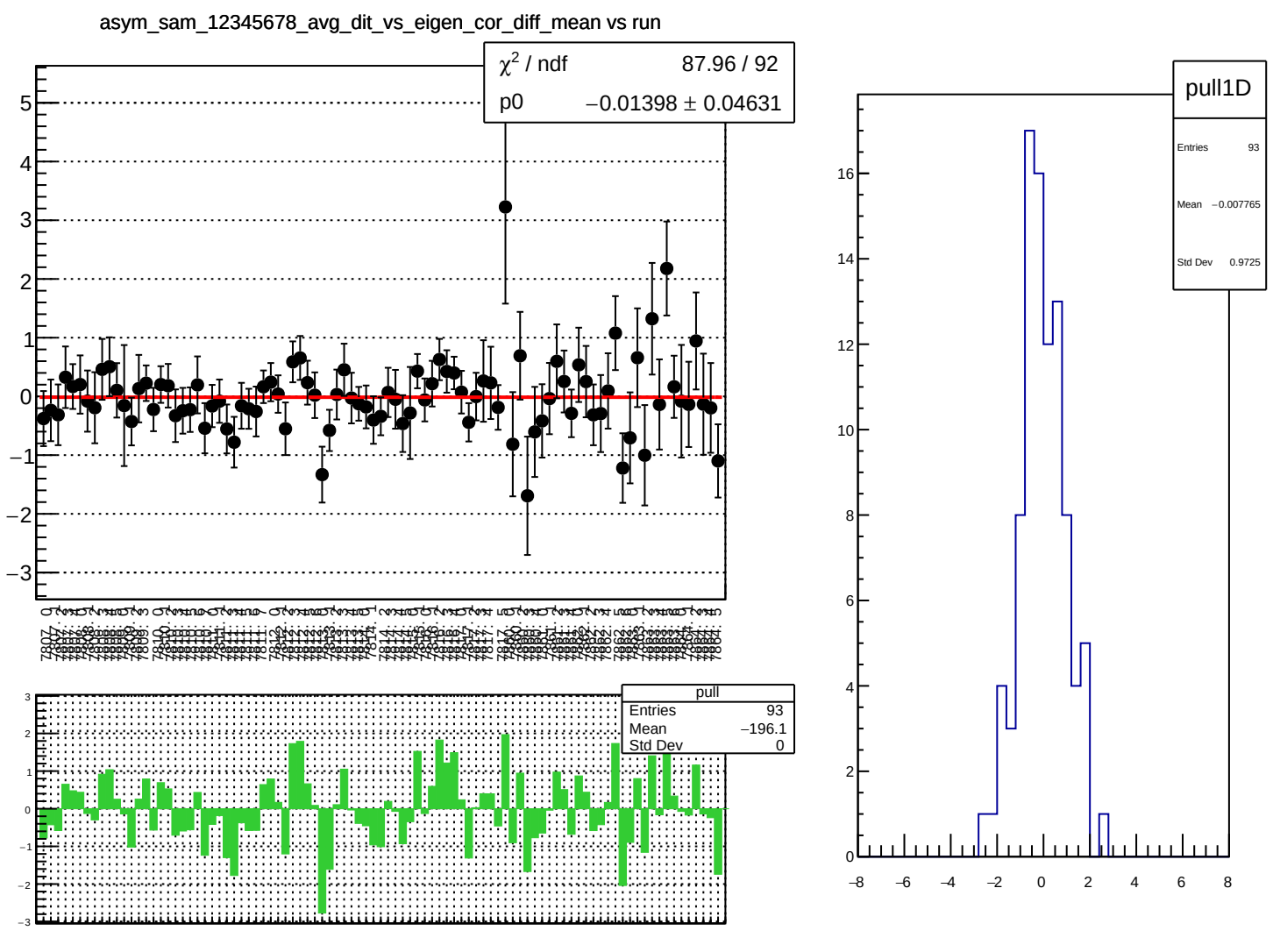

asym_sam_12345678_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 83.86 / 92
p0 −3.921e−13 ± 4.281e−13
0.002
0.001
0
−0.001
−0.002
−0.003
pull
Entries 93
Mean 107.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean −0.06068
Std Dev 0.9477
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

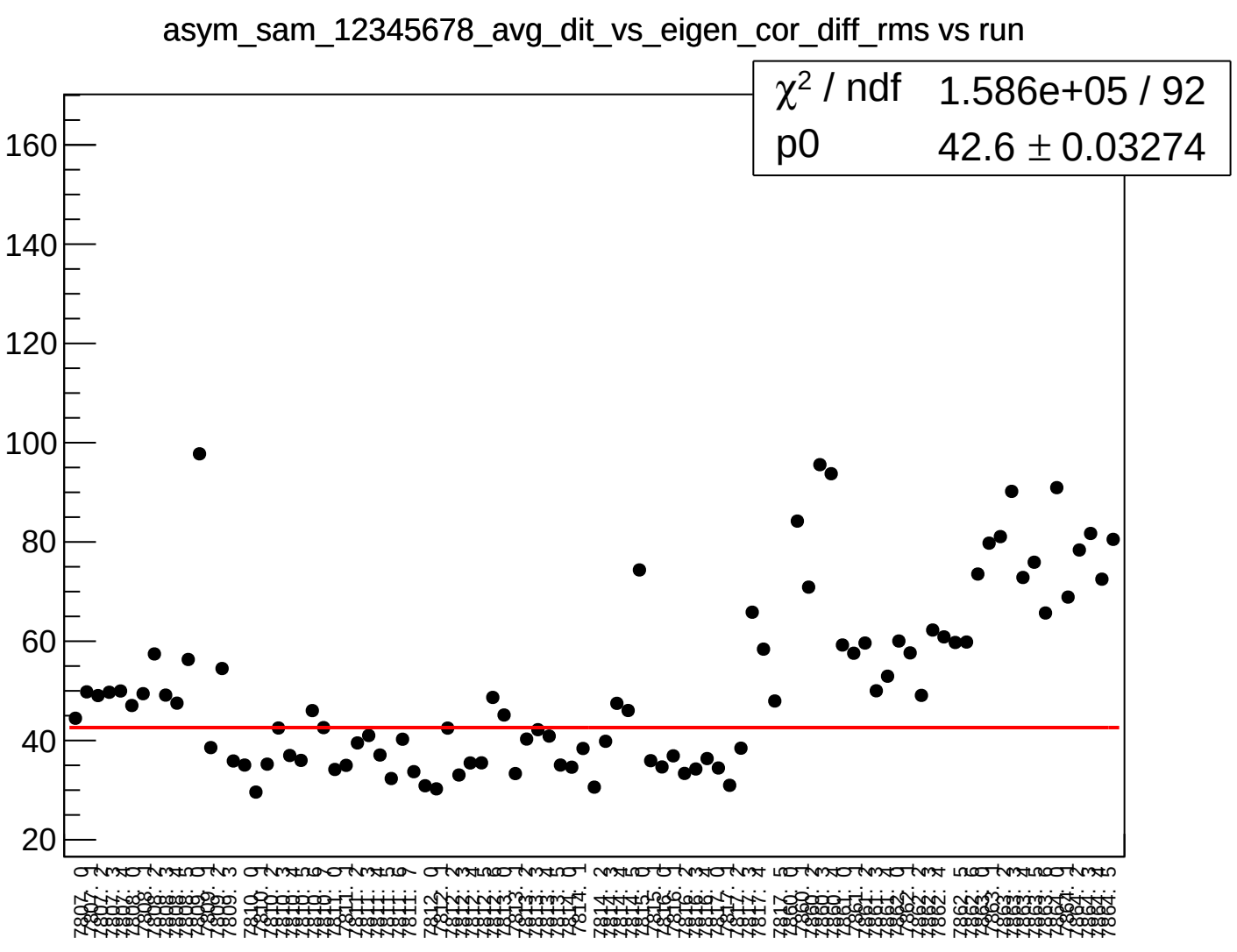

asym_sam_12345678_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.857e+05 / 92
p0 2.975e−10 ± 3.027e−13
0.25
0.2
0.15
0.1
0.05
0

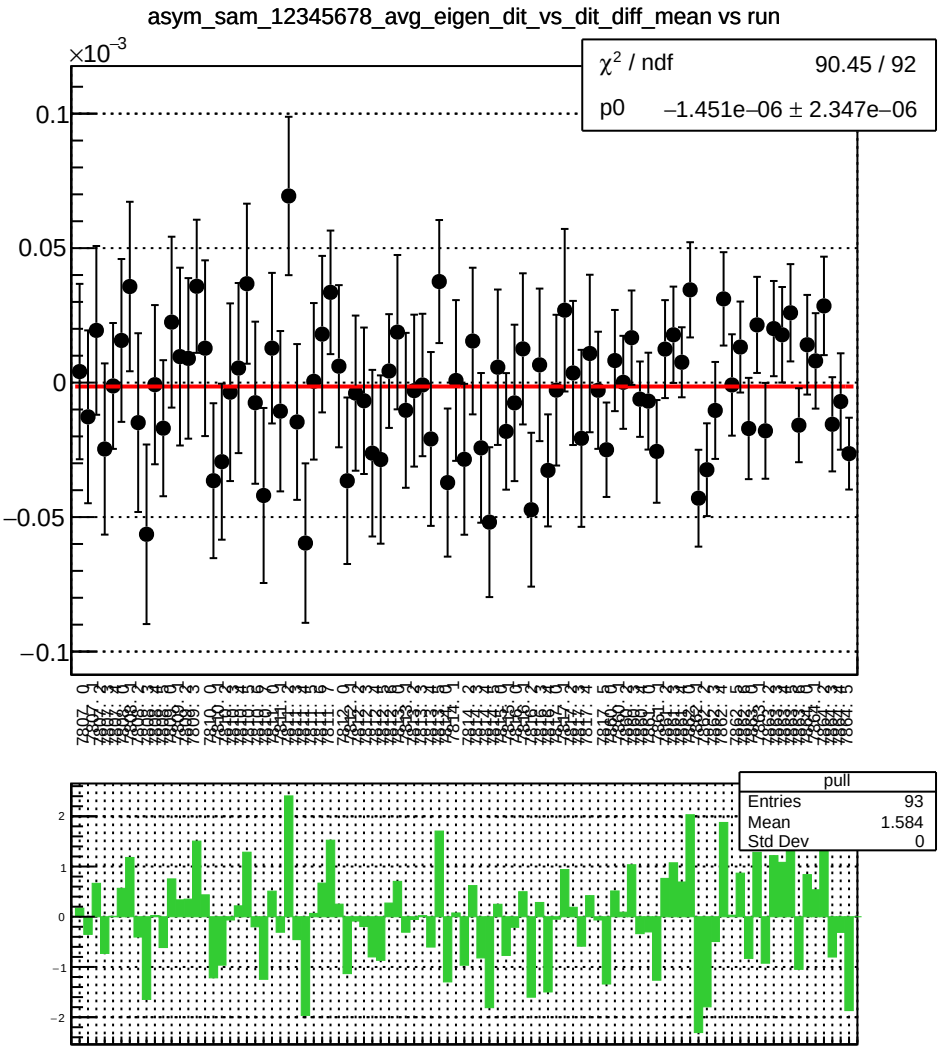

asym_sam_12345678_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 87.96 / 92
p0 −0.01398 ± 0.04631
pull
Entries 93
Mean −196.1
Std Dev 0

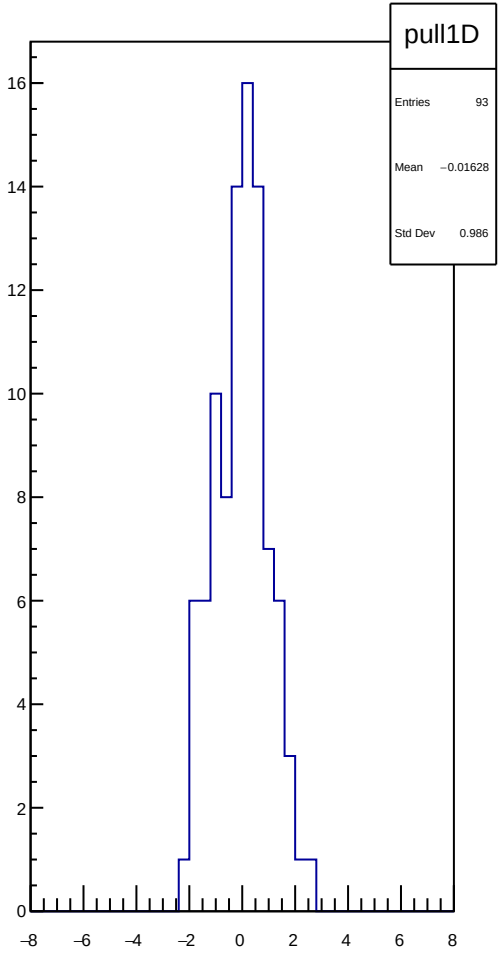

pull1D
Entries 93
Mean −0.007765
Std Dev 0.9725

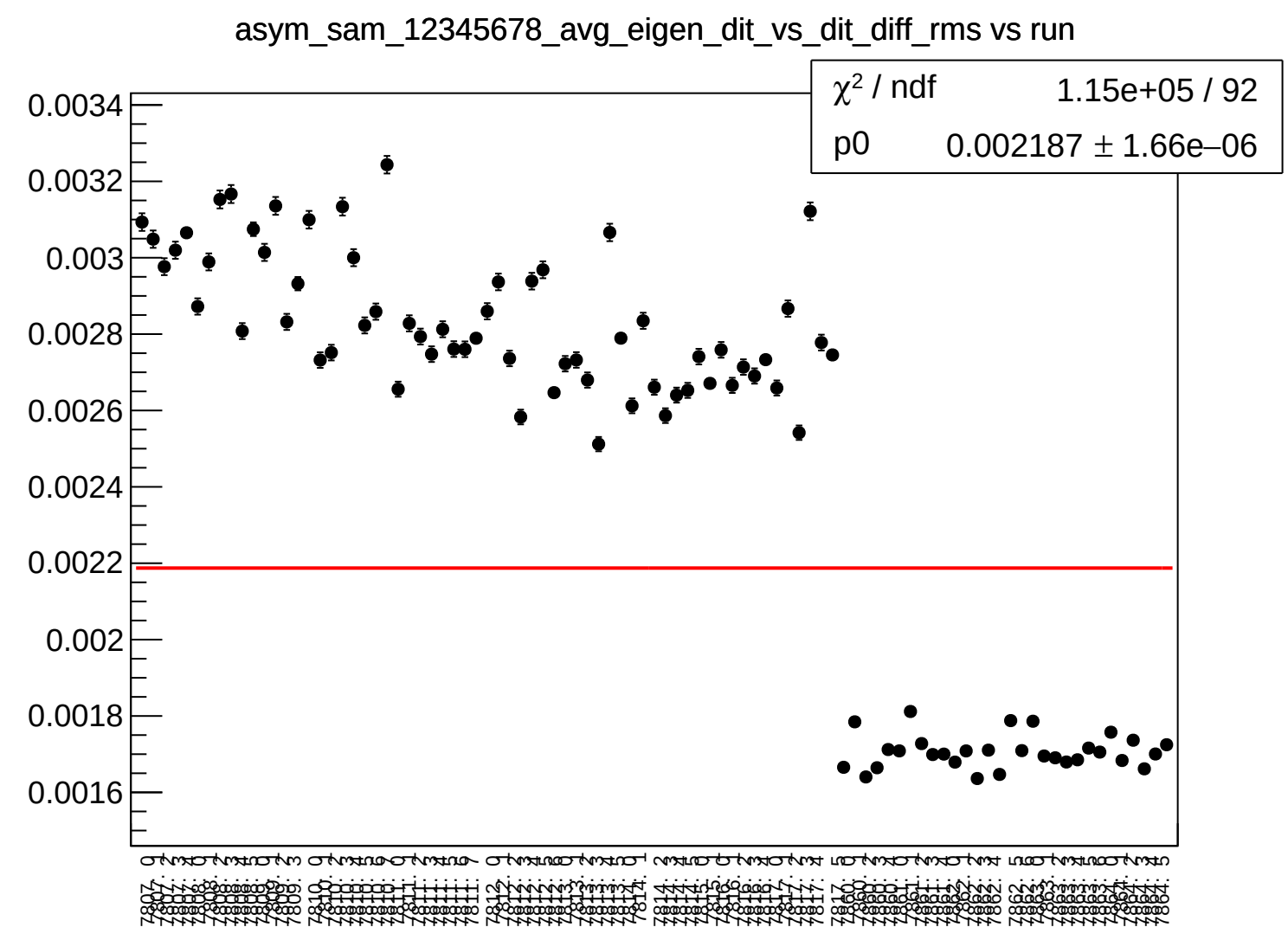

asym_sam_12345678_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.586e+05 / 92
p0 42.6 ± 0.03274
160
140
120
100
80
60
40
20

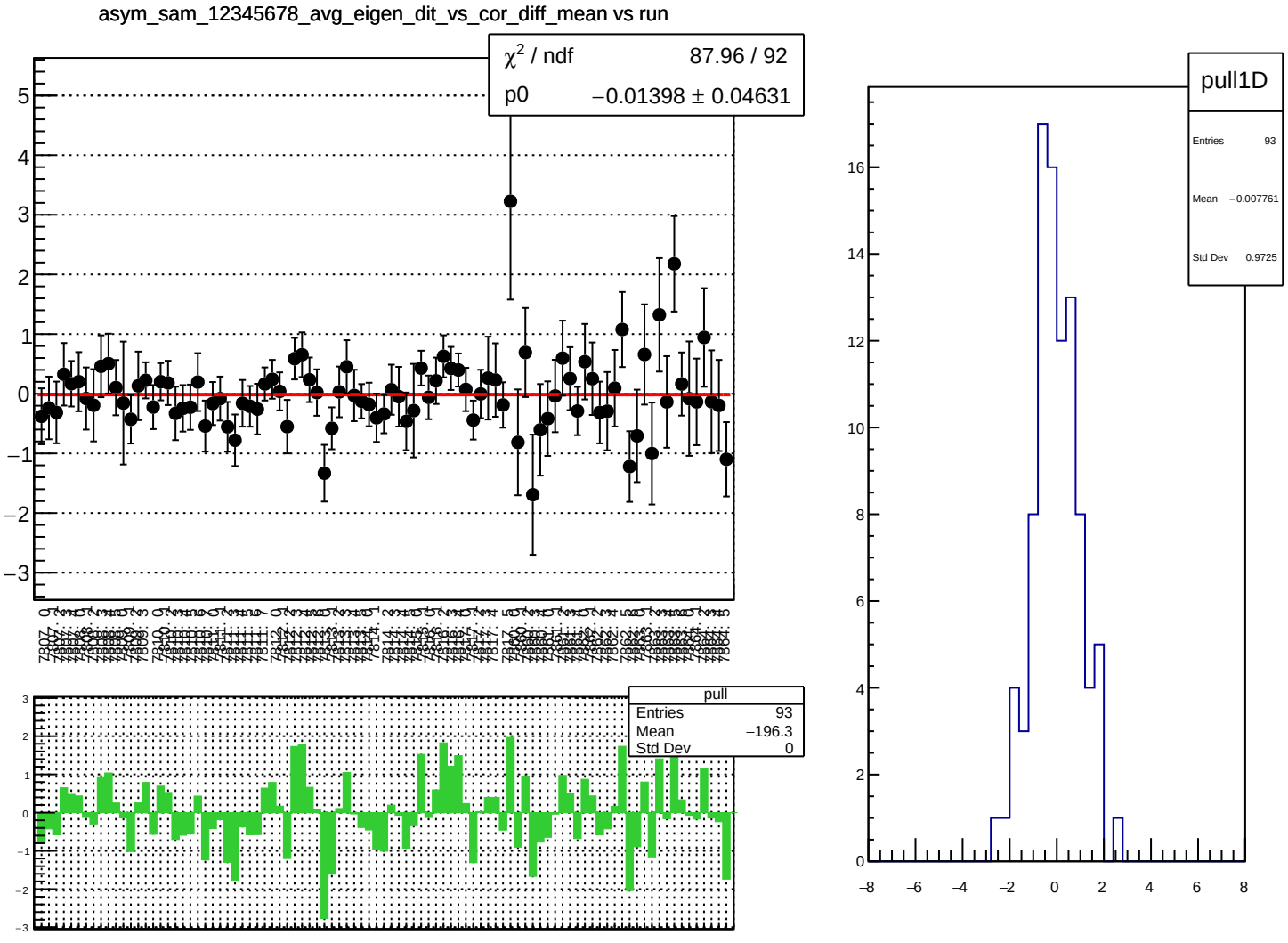

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.96 / 92
p0 −0.01398 ± 0.04631
pull
Entries 93
Mean −196.1
Std Dev 0
pull1D
Entries 93
Mean −0.007765
Std Dev 0.9725

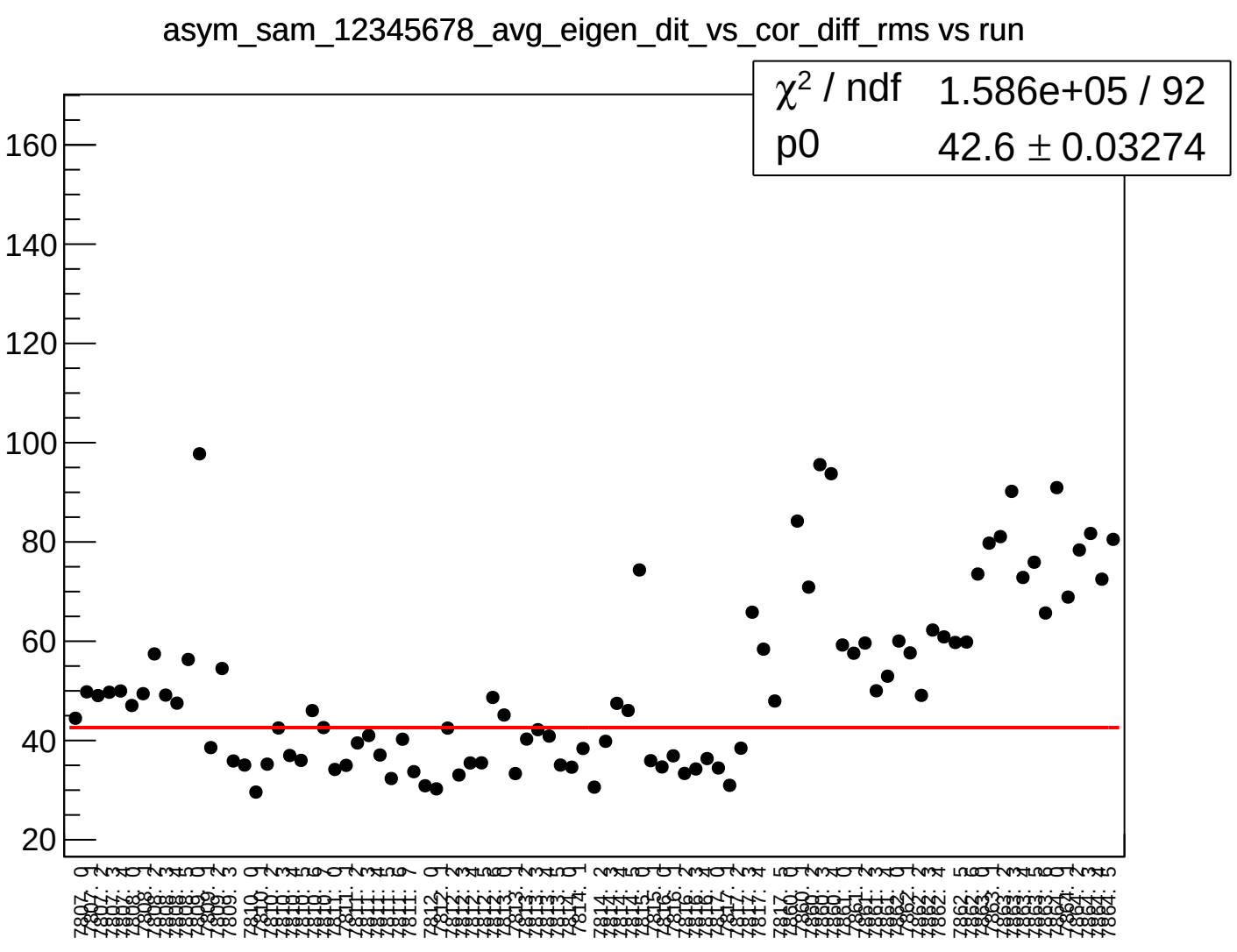

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.586e+05 / 92
p0 42.6 ± 0.03274
160
140
120
100
80
60
40
20

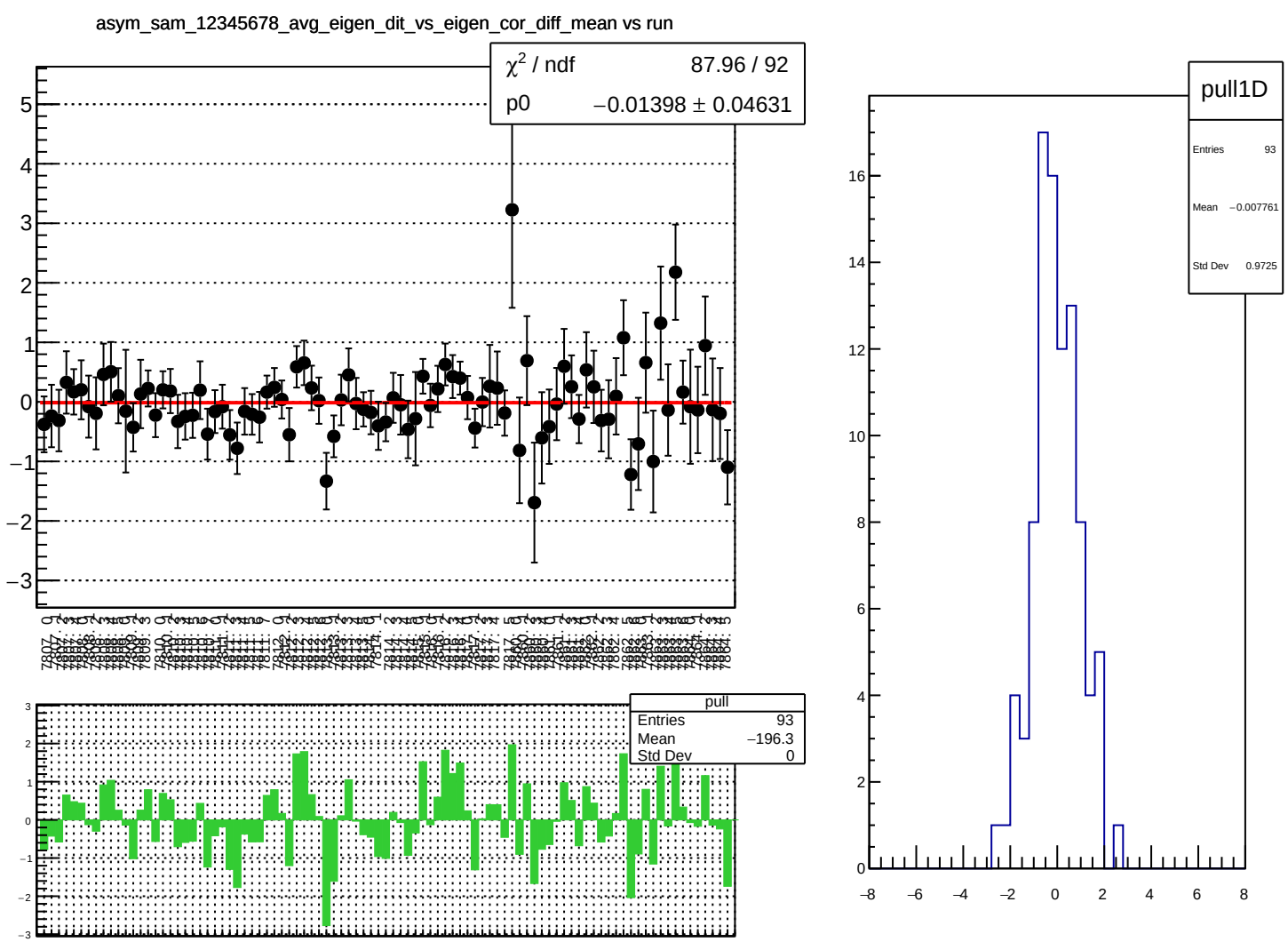

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.45 / 92
p0 −1.451e−06 ± 2.347e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 93
Mean 1.584
Std Dev 0
2
1
0
−1
−2

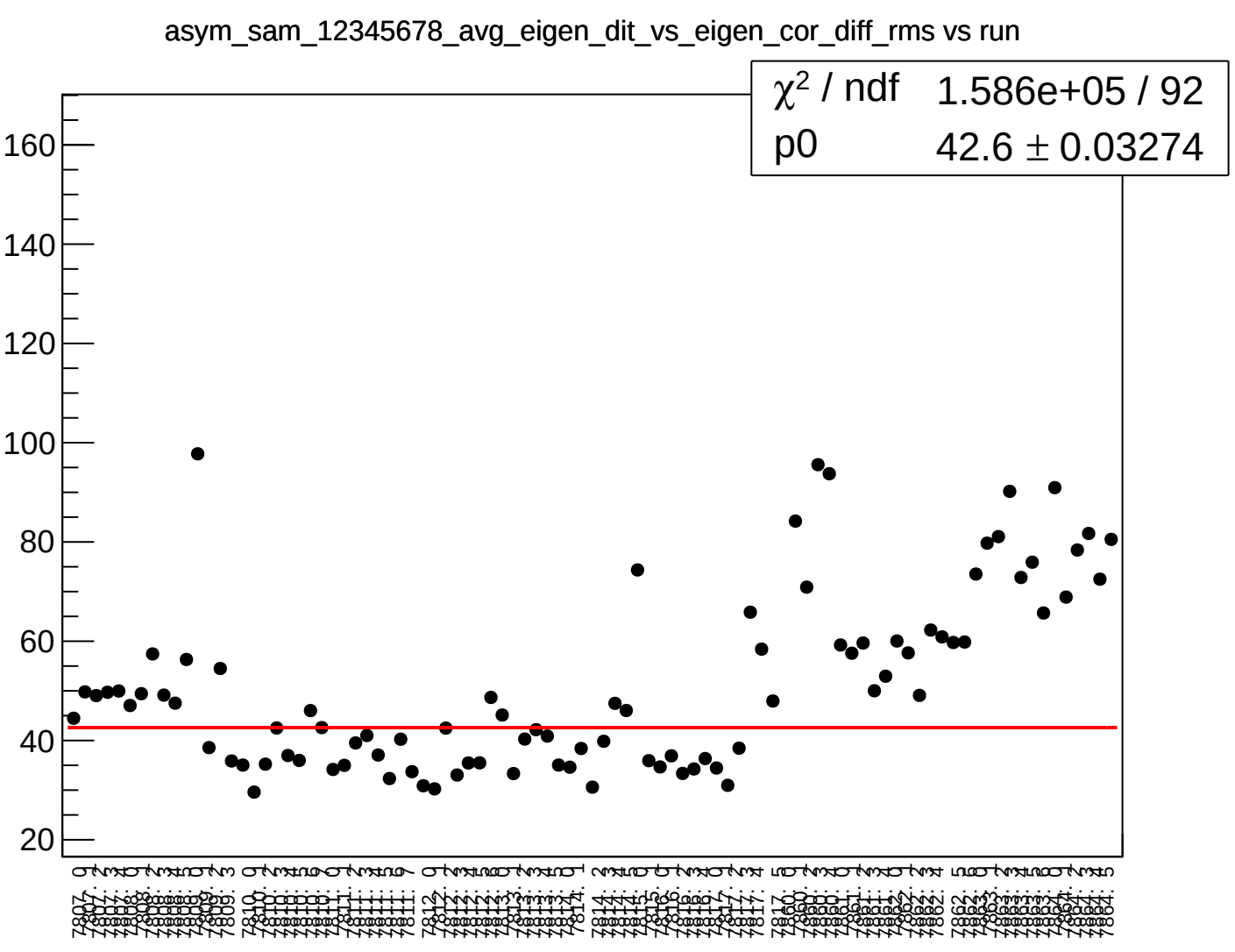

pull1D
Entries 93
Mean −0.01628
Std Dev 0.986
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

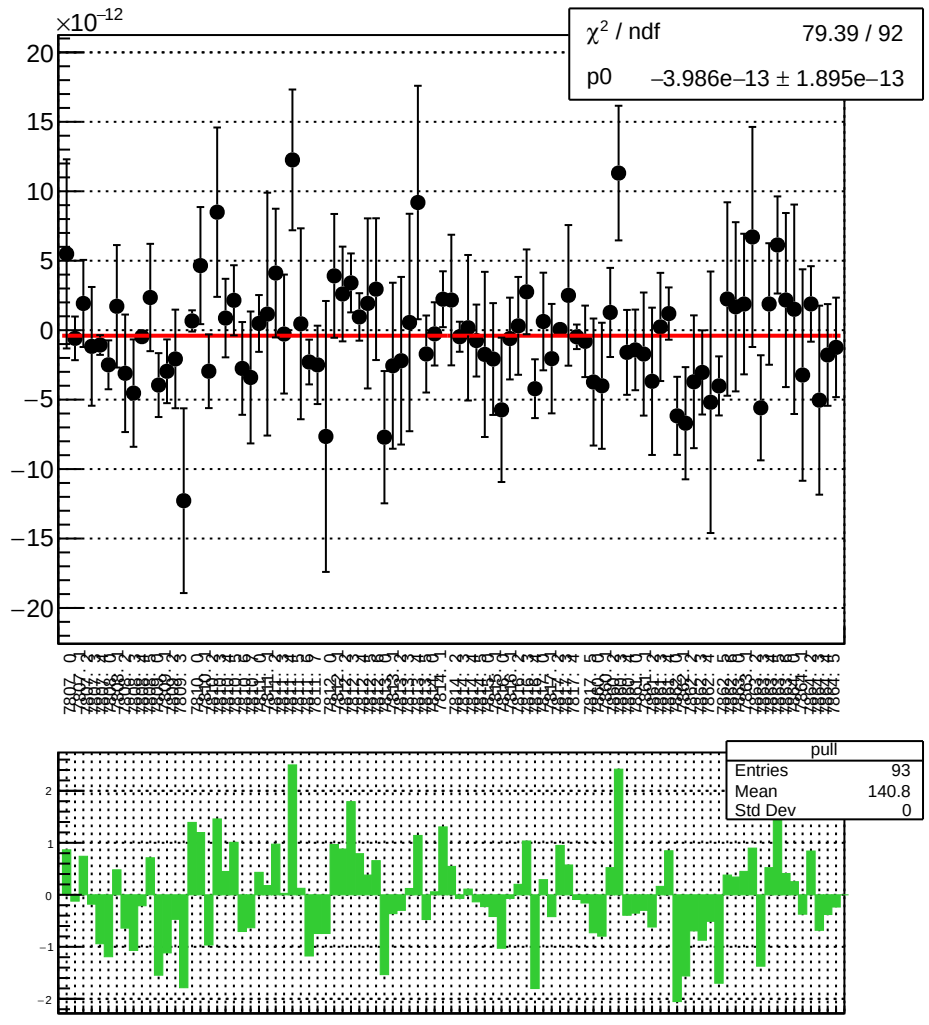

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.15e+05 / 92
p0 0.002187 ± 1.66e−06
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016

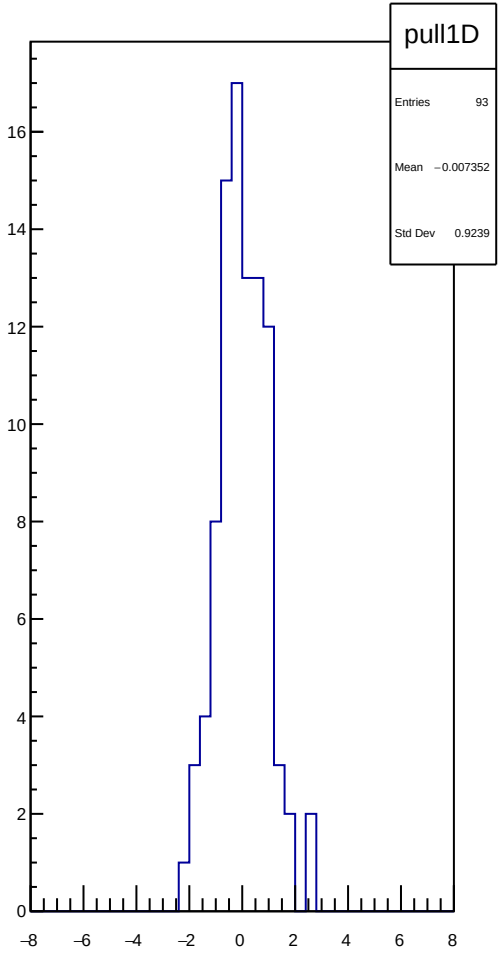

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.96 / 92
p0 −0.01398 ± 0.04631
pull
Entries 93
Mean −196.3
Std Dev 0
pull1D
Entries 93
Mean −0.007761
Std Dev 0.9725

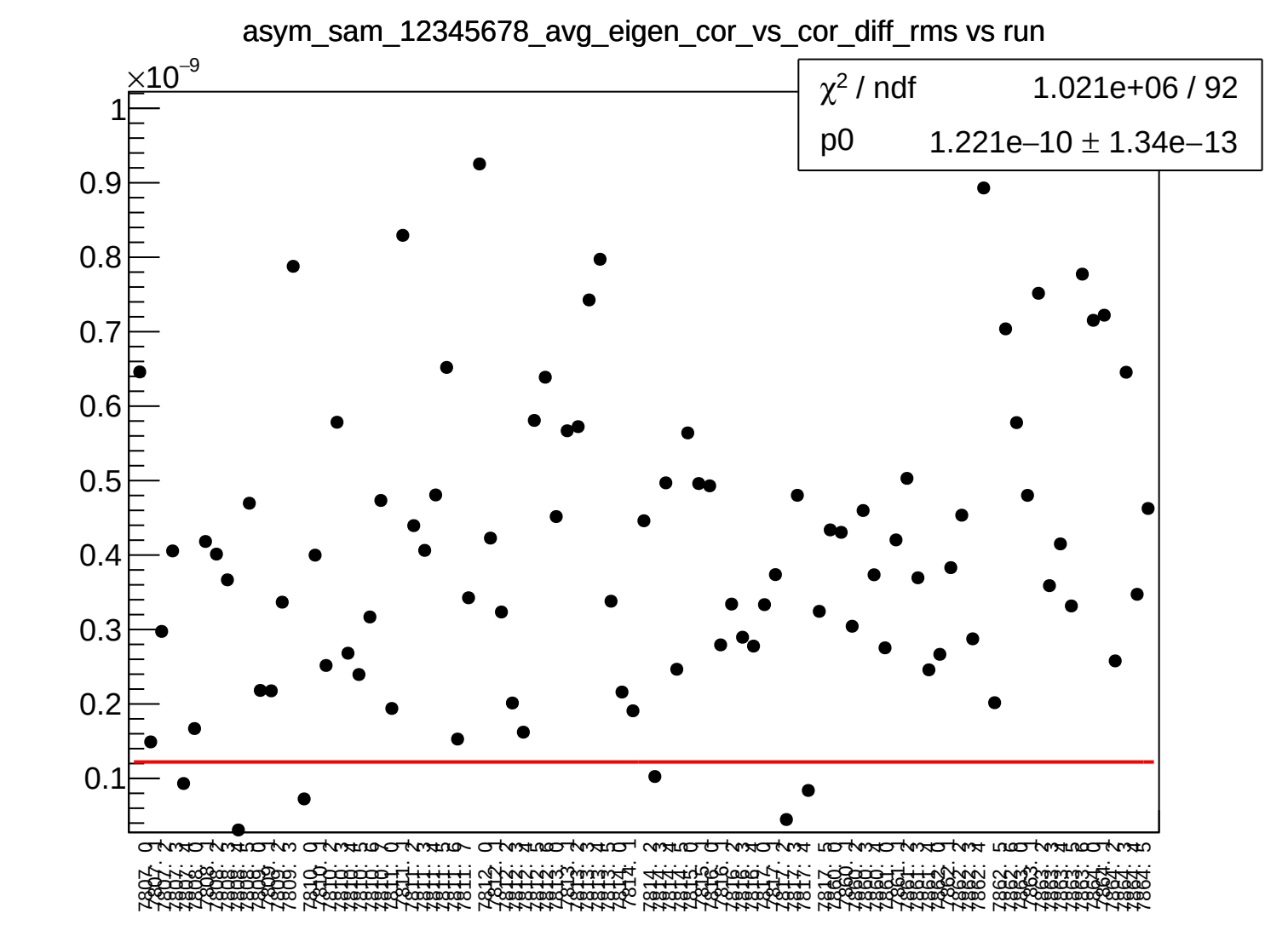

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.586e+05 / 92
p0 42.6 ± 0.03274
160
140
120
100
80
60
40
20

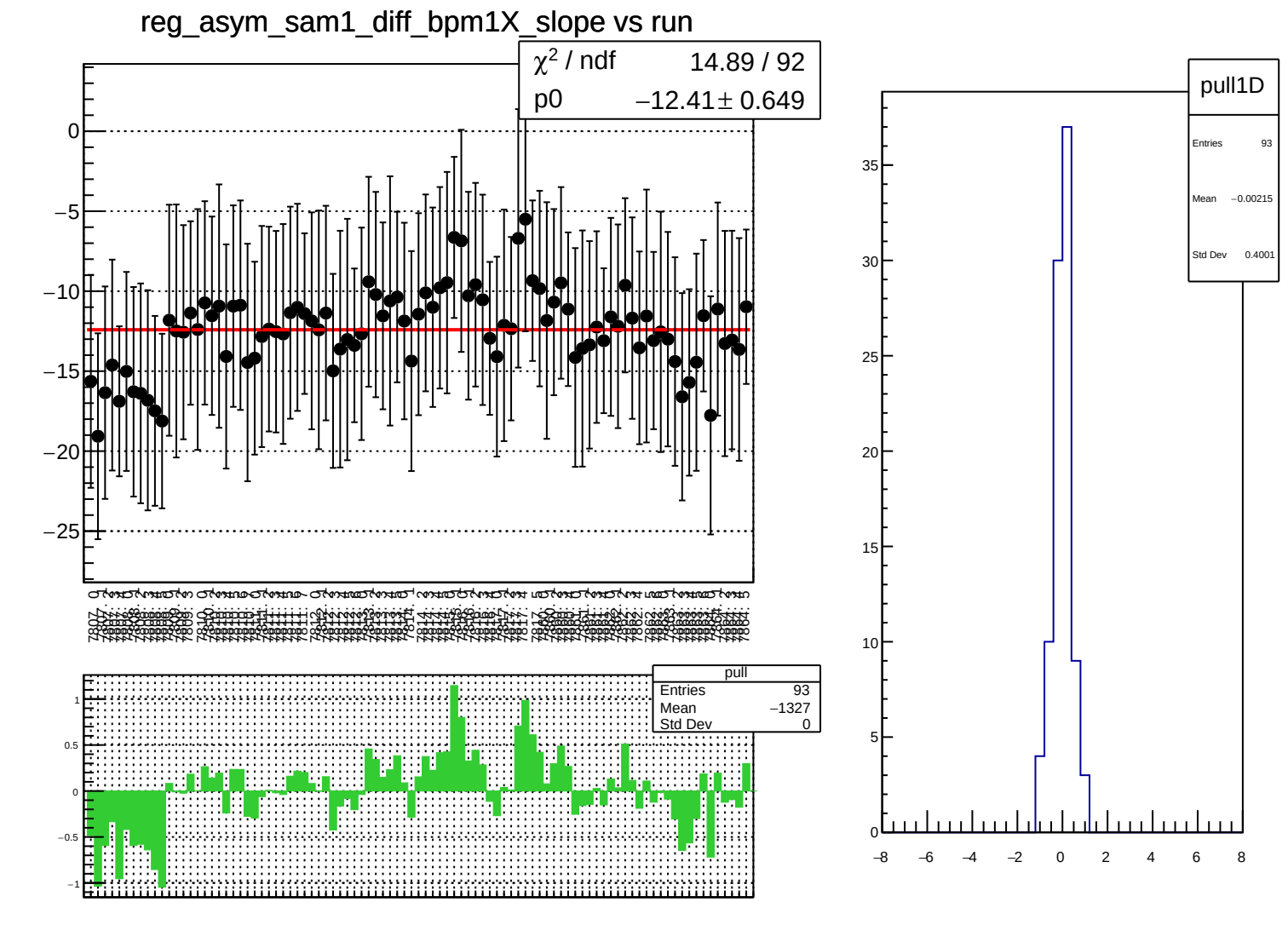

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.96 / 92
p0 −0.01398 ± 0.04631
pull
Entries 93
Mean −196.3
Std Dev 0
pull1D
Entries 93
Mean −0.007761
Std Dev 0.9725

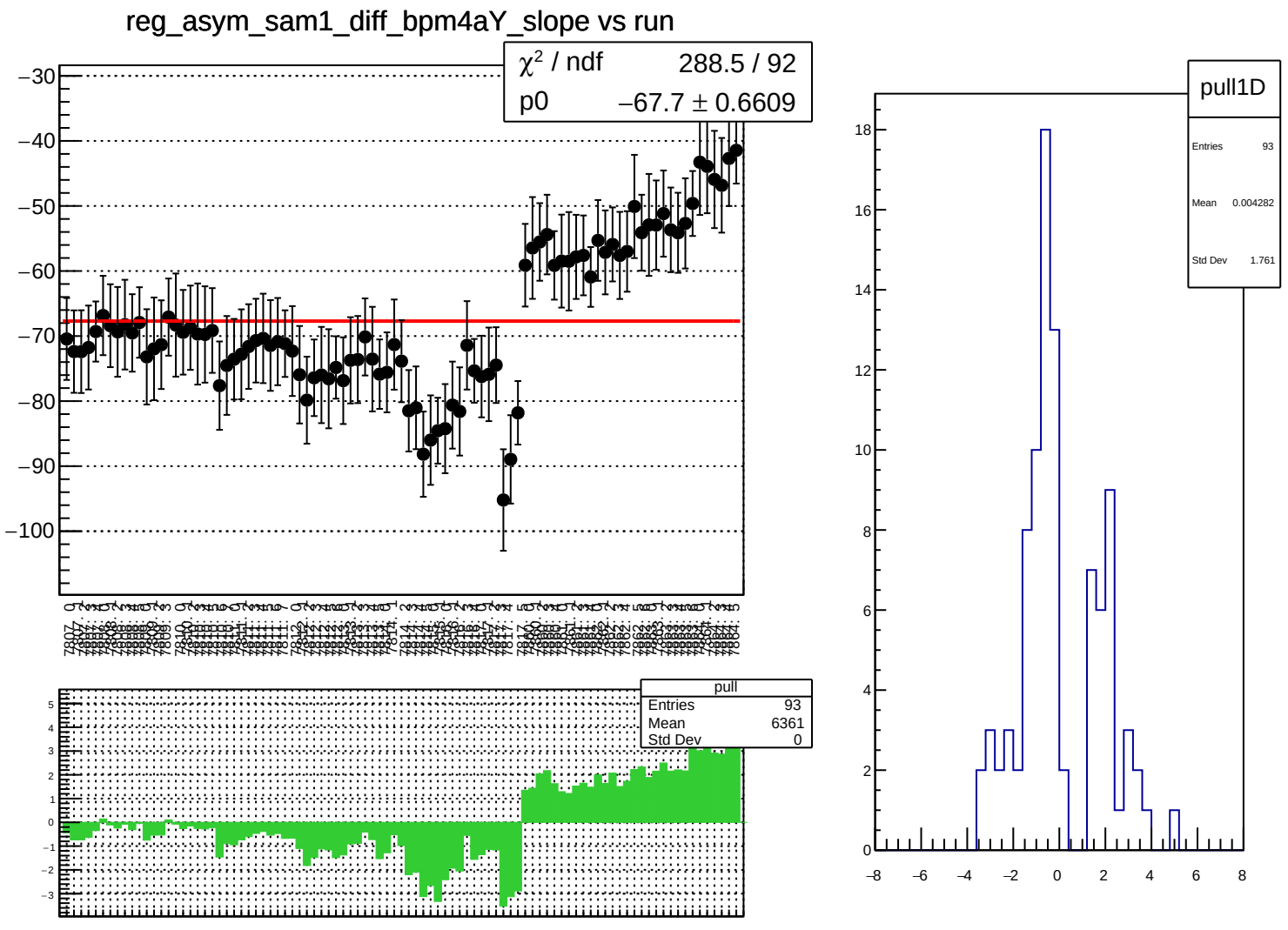

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.586e+05 / 92
p0 42.6 ± 0.03274
160
140
120
100
80
60
40
20

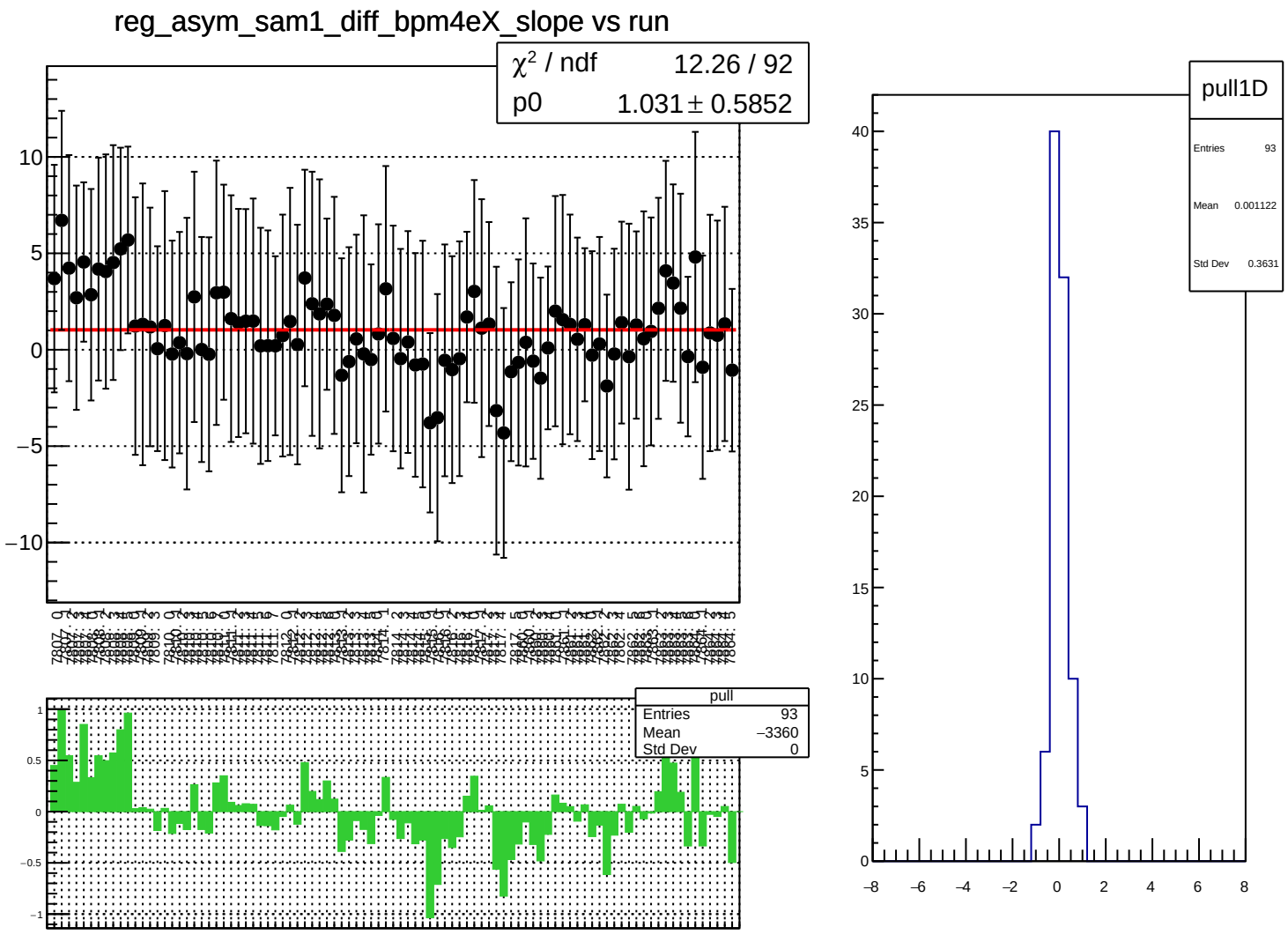

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.39 / 92
p0 −3.986e−13 ± 1.895e−13
pull
Entries 93
Mean 140.8
Std Dev 0

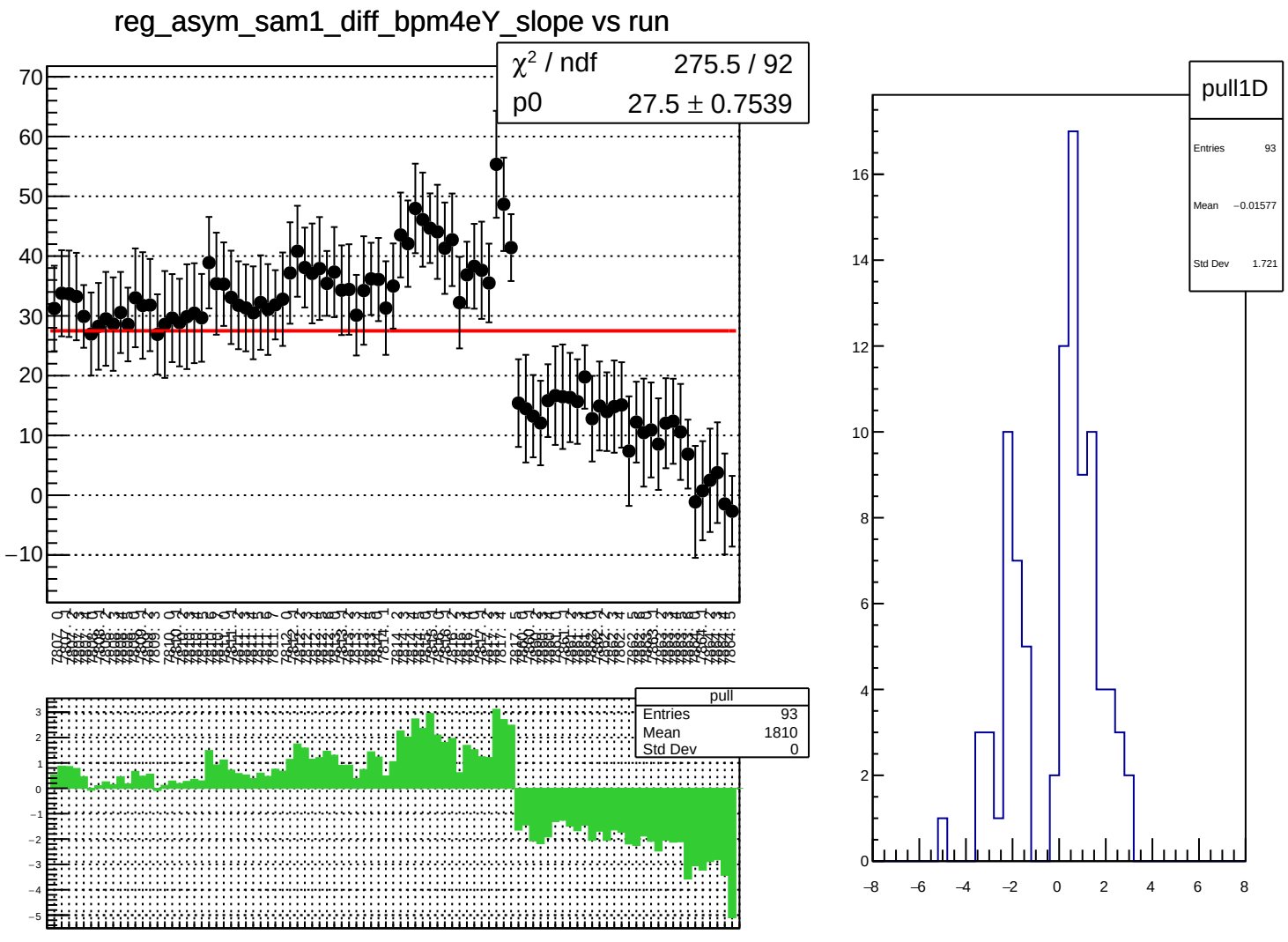

pull1D
Entries 93
Mean −0.007352
Std Dev 0.9239

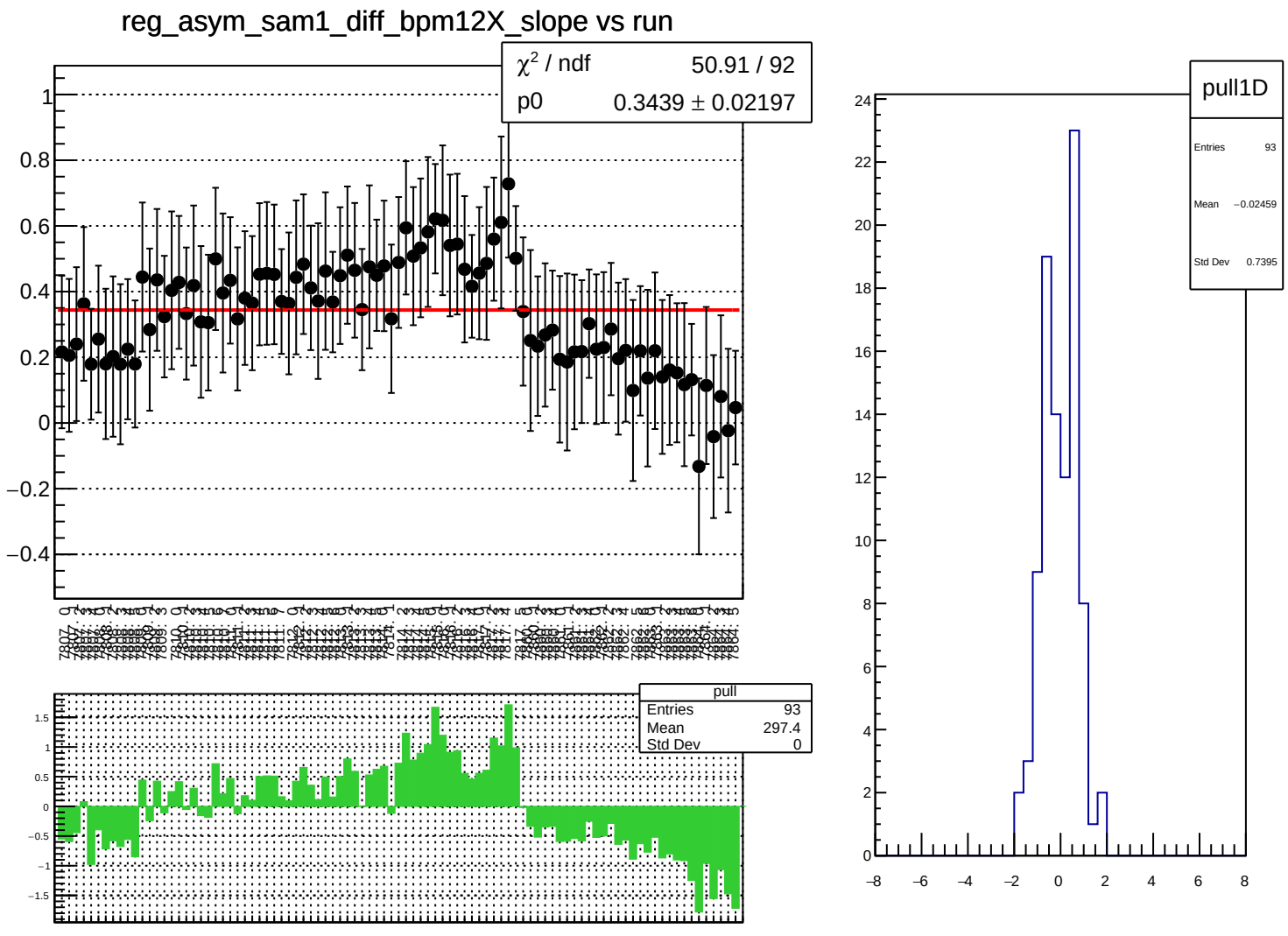

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.021e+06 / 92
p0 1.221e−10 ± 1.34e−13
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

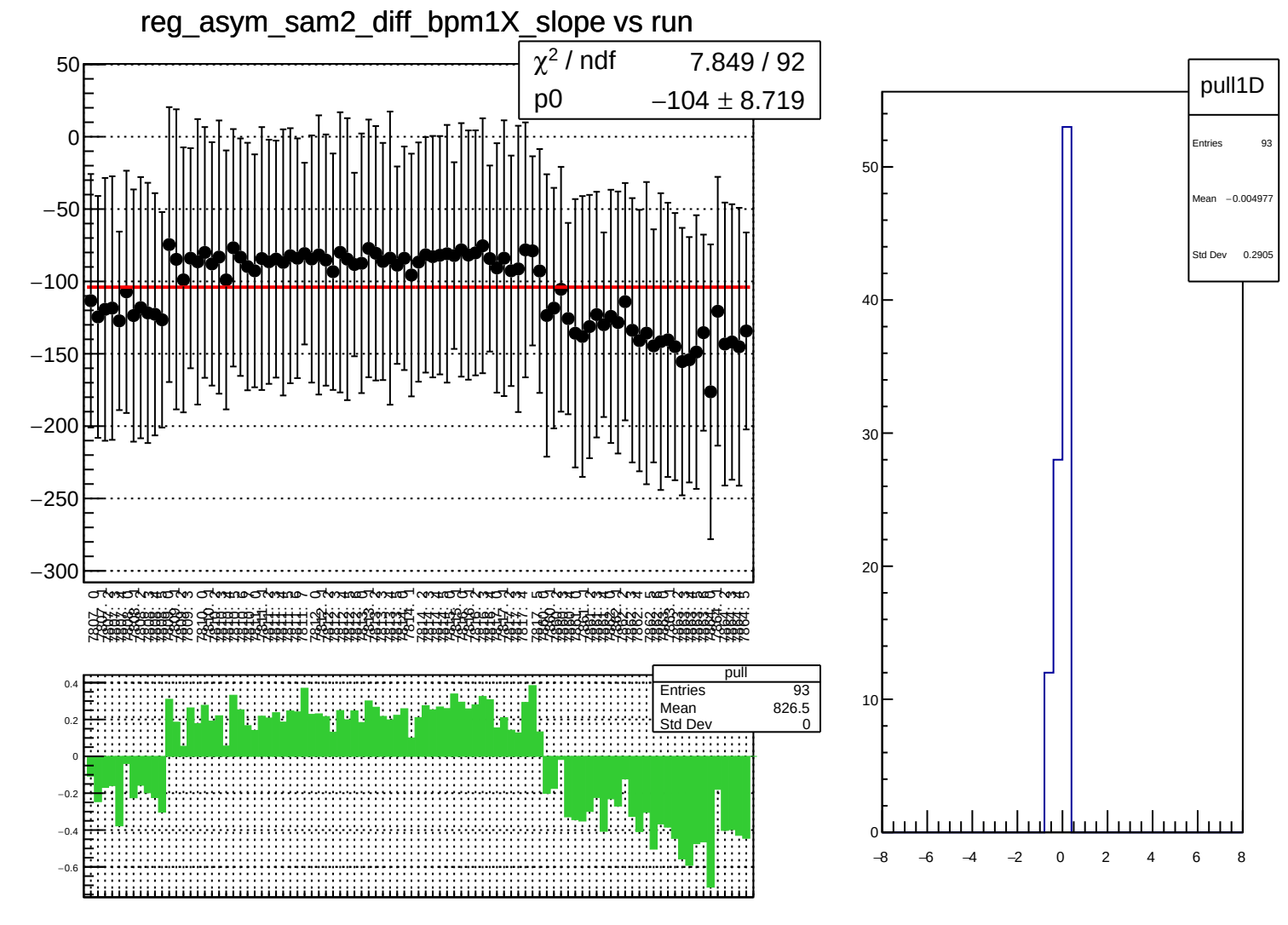

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 14.89 / 92
p0 −12.41 ± 0.649
pull
Entries 93
Mean −1327
Std Dev 0
pull1D
Entries 93
Mean −0.00215
Std Dev 0.4001

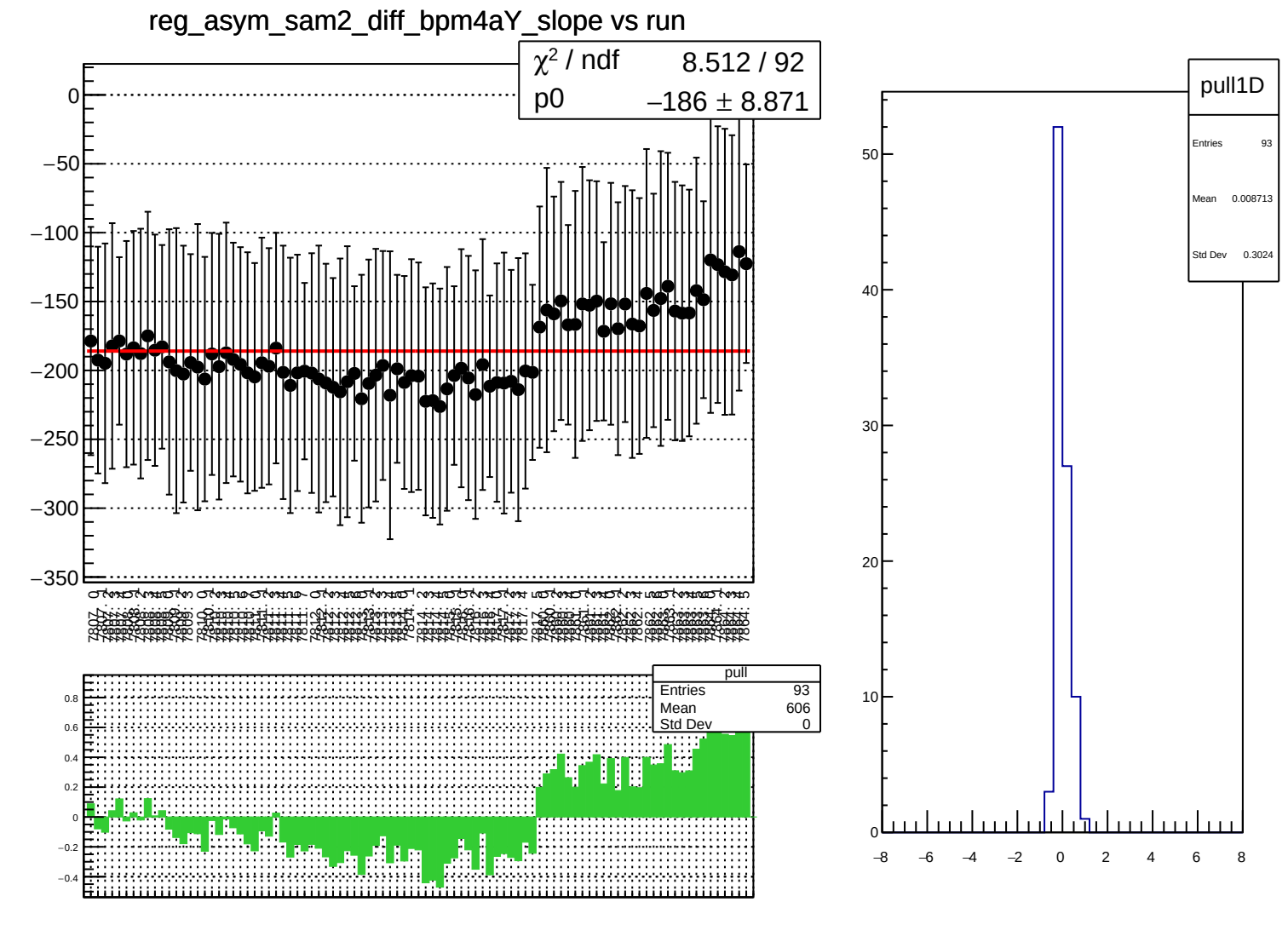

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 288.5 / 92
p0 −67.7 ± 0.6609
pull
Entries 93
Mean 6361
Std Dev 0
pull1D
Entries 93
Mean 0.004282
Std Dev 1.761

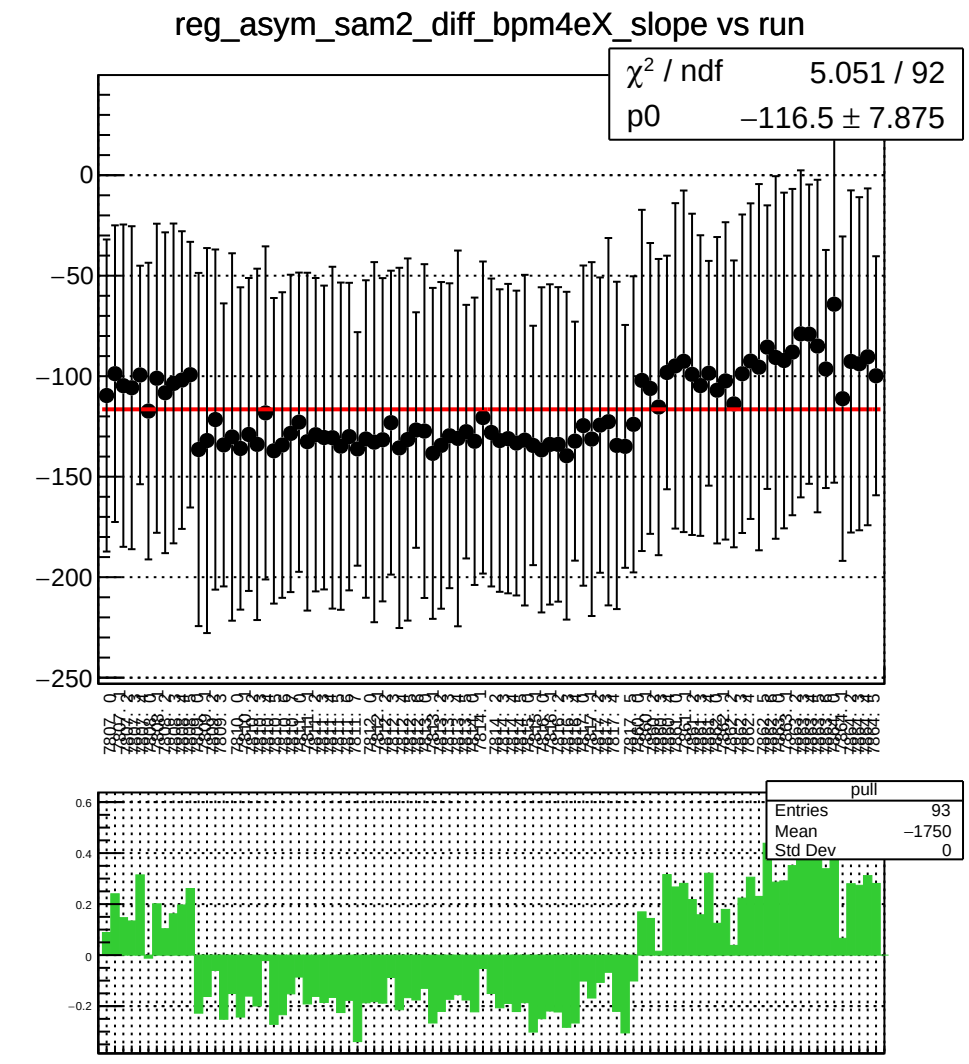

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 12.26 / 92
p0 1.031 ± 0.5852
pull
Entries 93
Mean −3360
Std Dev 0
pull1D
Entries 93
Mean 0.001122
Std Dev 0.3631

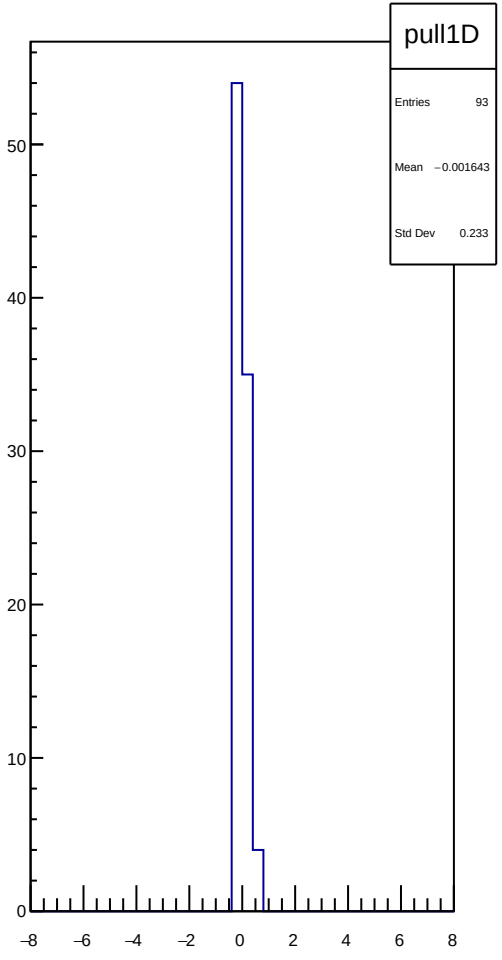

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 275.5 / 92
p0 27.5 ± 0.7539
pull
Entries 93
Mean 1810
Std Dev 0
pull1D
Entries 93
Mean −0.01577
Std Dev 1.721

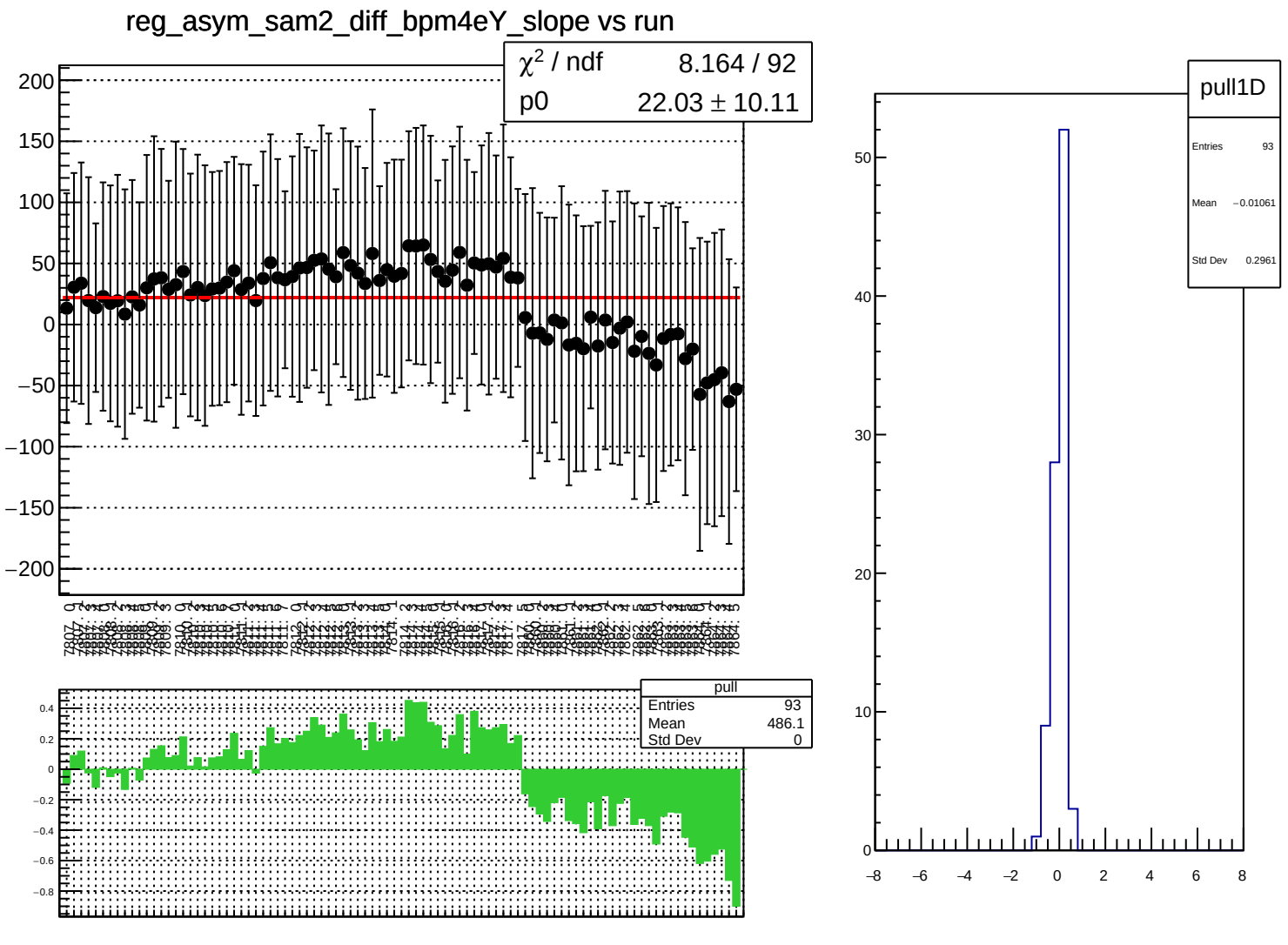

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 50.91 / 92
p0 0.3439 ± 0.02197
pull
Entries 93
Mean 297.4
Std Dev 0
pull1D
Entries 93
Mean −0.02459
Std Dev 0.7395

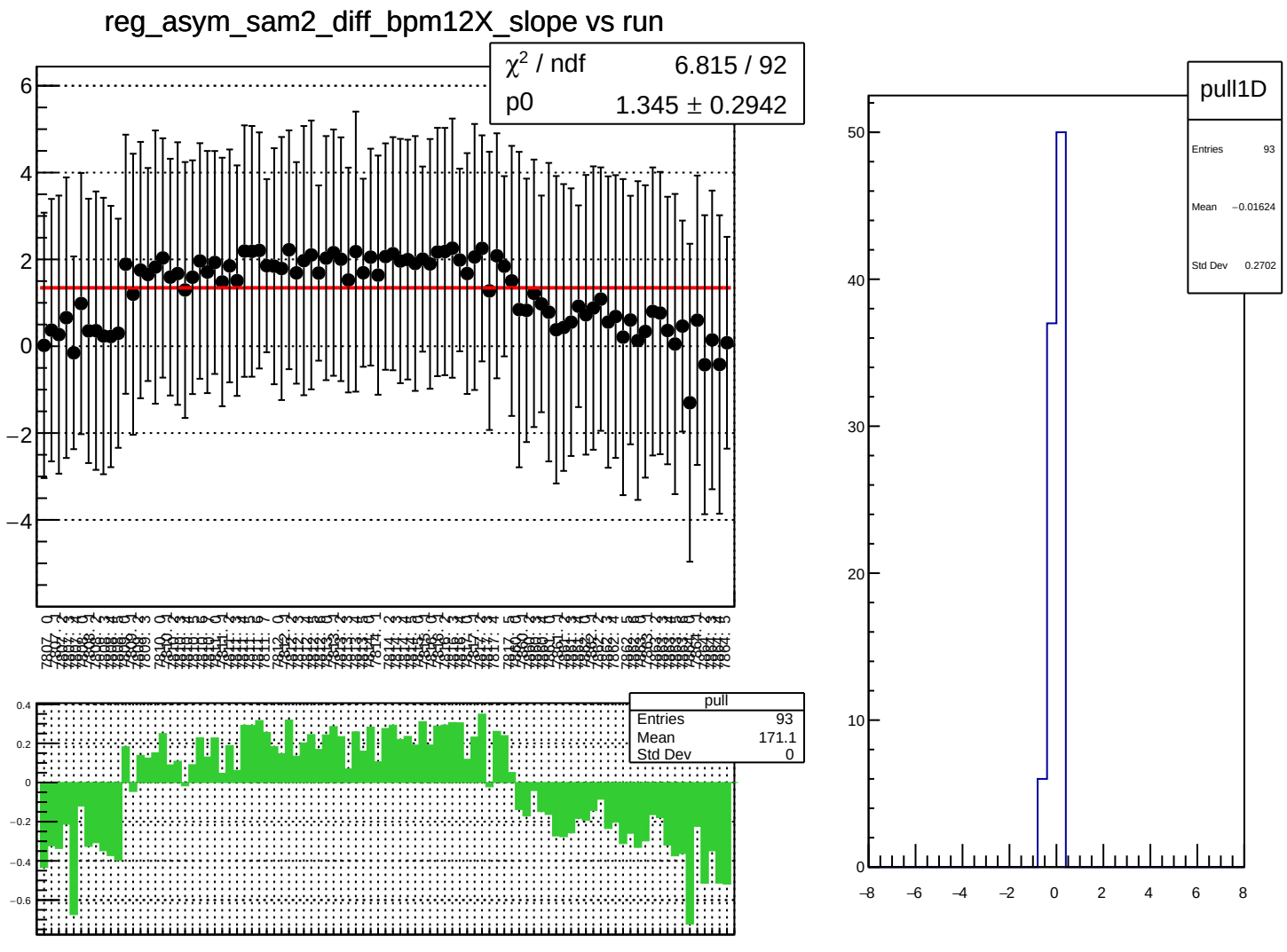

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 7.849 / 92
p0 −104 ± 8.719
pull
Entries 93
Mean 826.5
Std Dev 0
pull1D
Entries 93
Mean −0.004977
Std Dev 0.2905

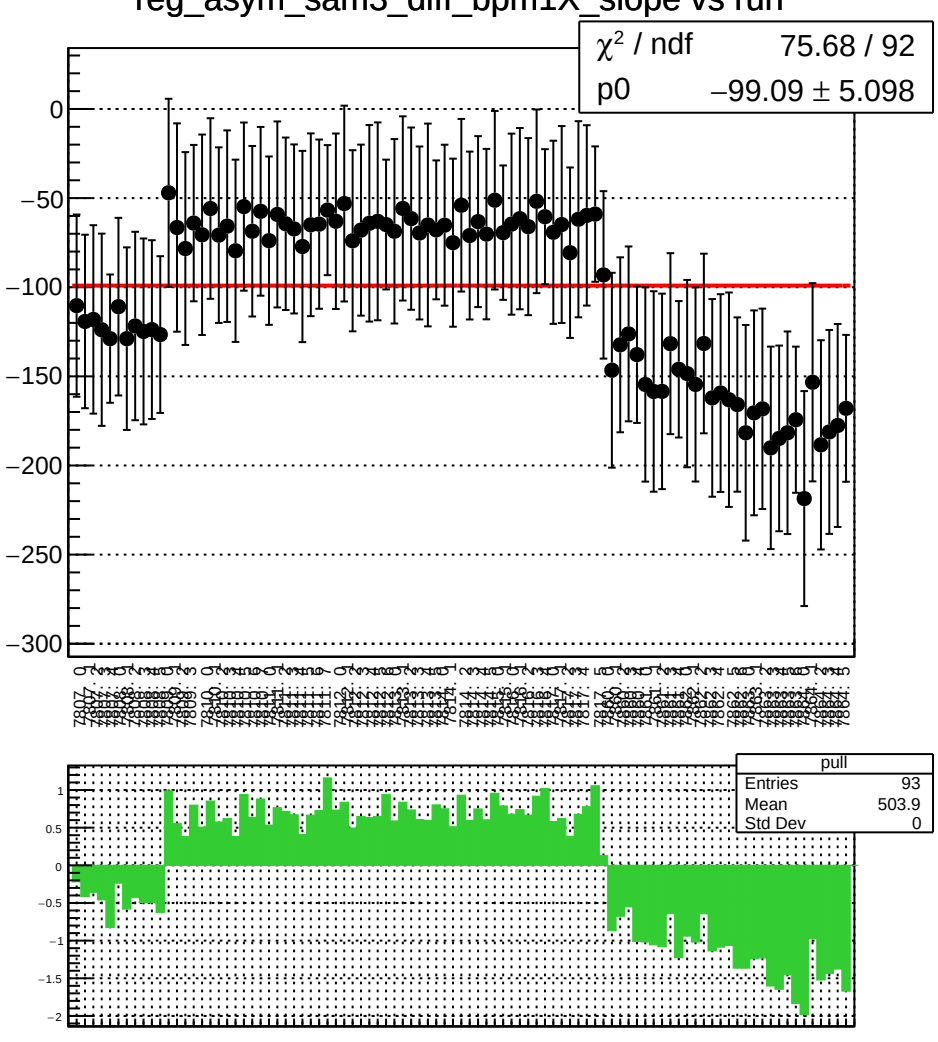

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 8.512 / 92
p0 −186 ± 8.871
pull
Entries 93
Mean 606
Std Dev 0
pull1D
Entries 93
Mean 0.008713
Std Dev 0.3024

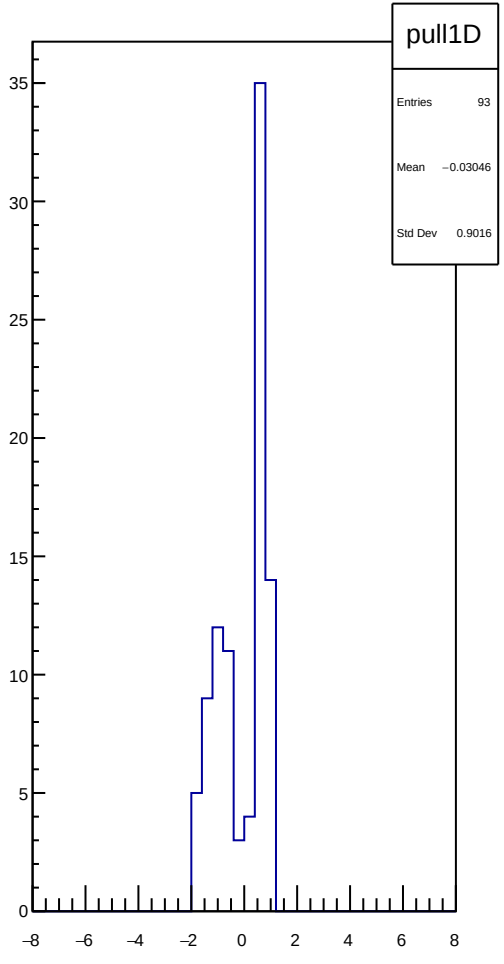

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 5.051 / 92
p0 −116.5 ± 7.875
0
−50
−100
−150
−200
−250
pull
Entries 93
Mean −1750
Std Dev 0
0.6
0.4
0.2
0
−0.2

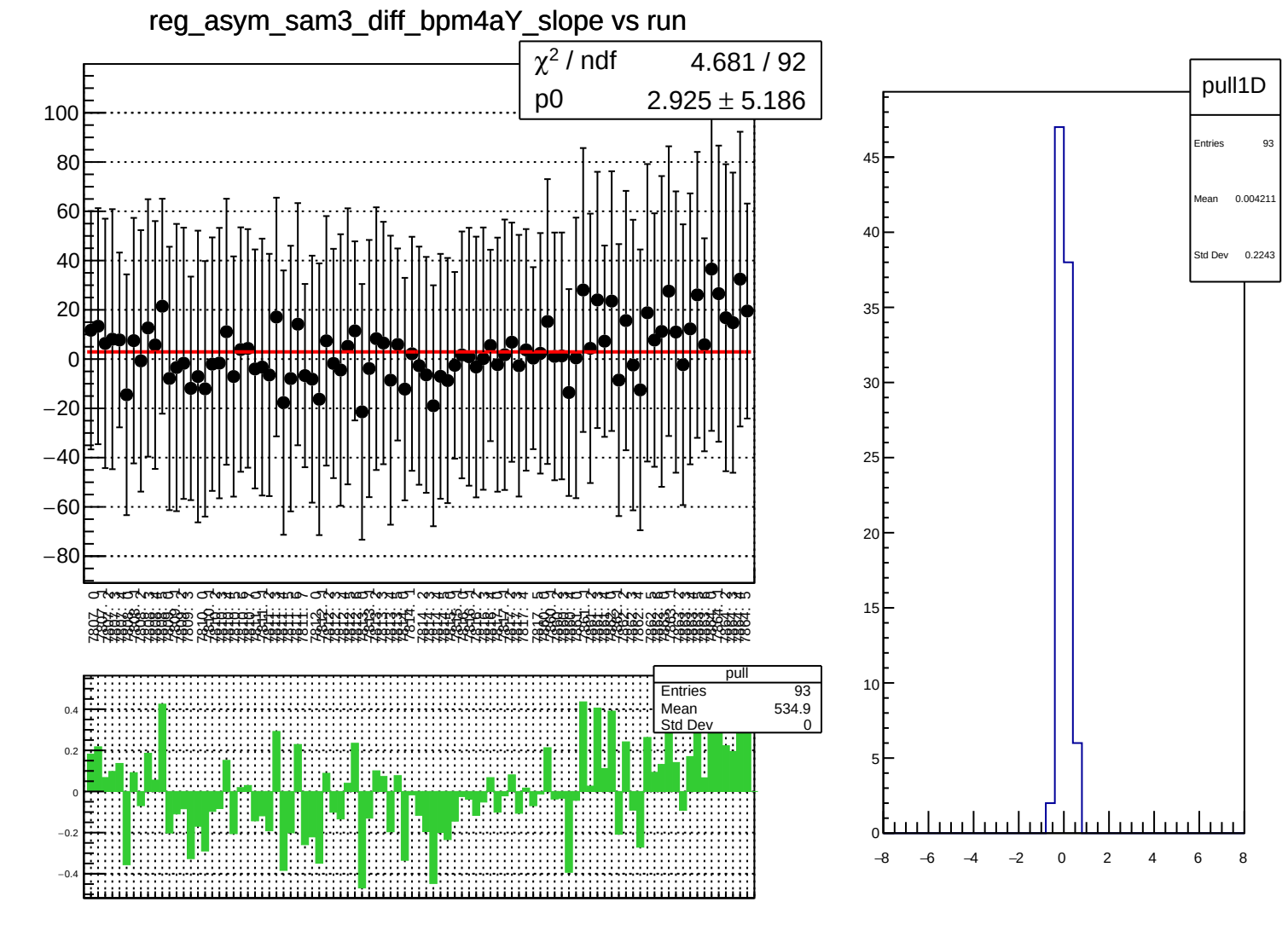

pull1D
Entries 93
Mean −0.001643
Std Dev 0.233
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

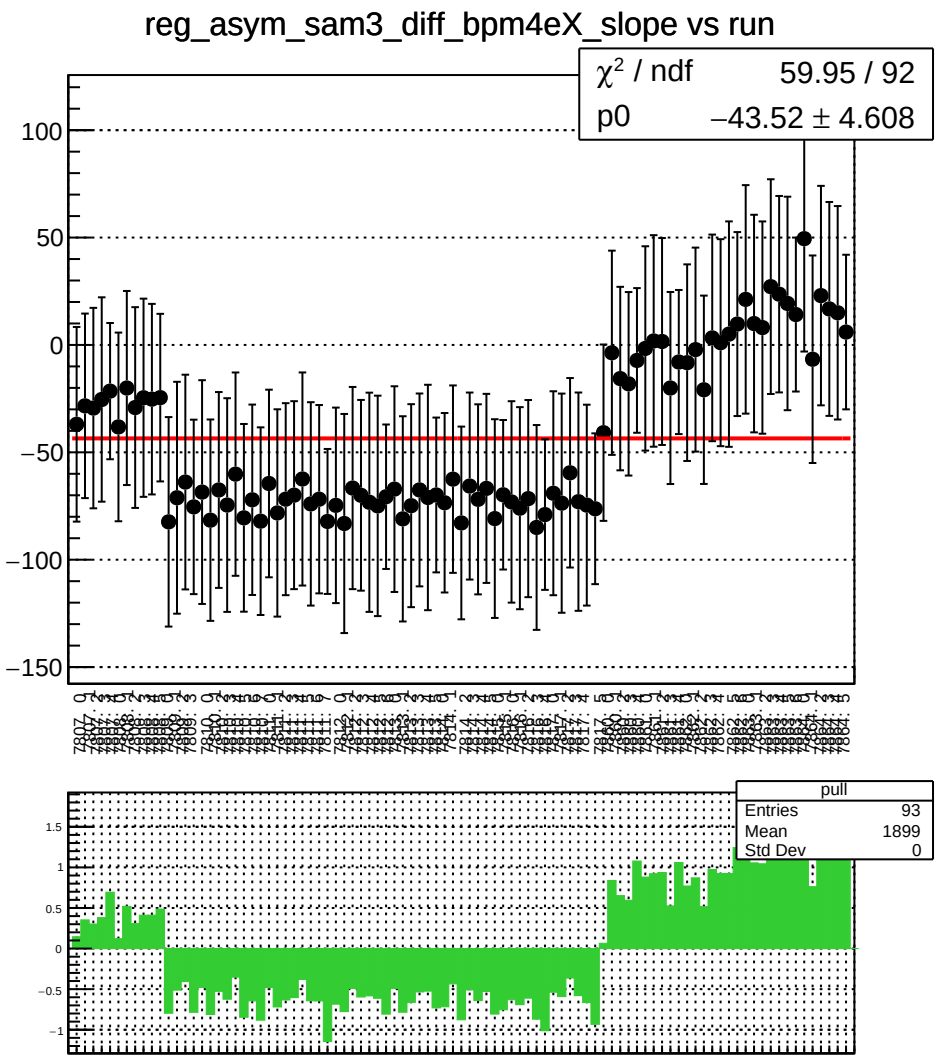

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 8.164 / 92
p0 22.03 ± 10.11
pull
Entries 93
Mean 486.1
Std Dev 0
pull1D
Entries 93
Mean −0.01061
Std Dev 0.2961

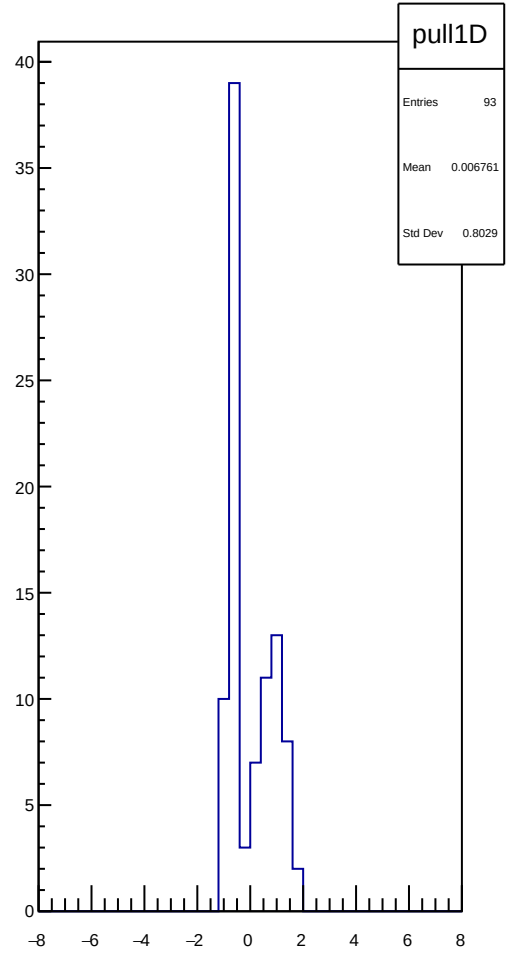

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 6.815 / 92
p0 1.345 ± 0.2942
pull
Entries 93
Mean 171.1
Std Dev 0
pull1D
Entries 93
Mean −0.01624
Std Dev 0.2702

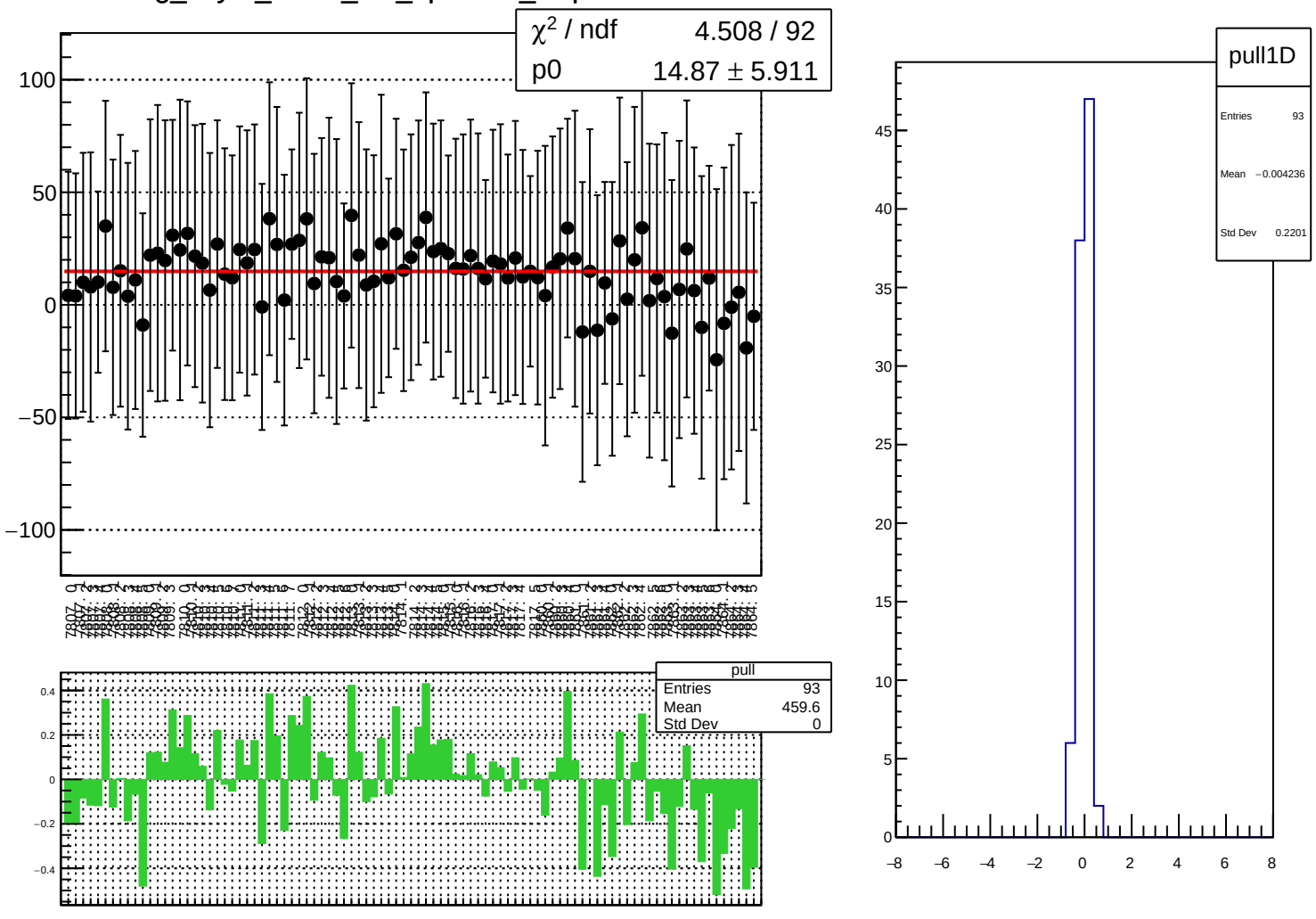

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 75.68 / 92
p0 −99.09 ± 5.098
pull
Entries 93
Mean 503.9
Std Dev 0

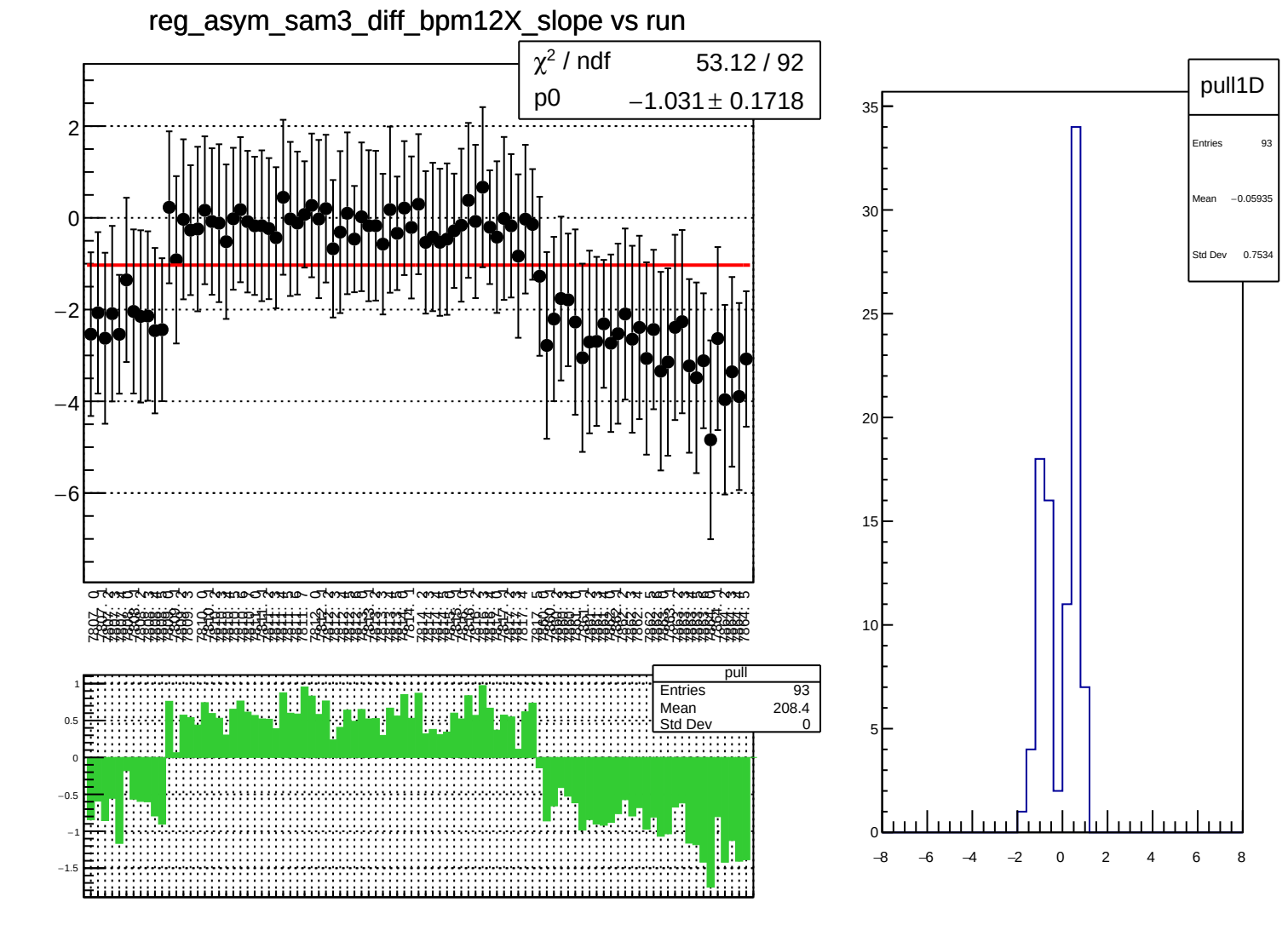

pull1D
Entries 93
Mean −0.03046
Std Dev 0.9016

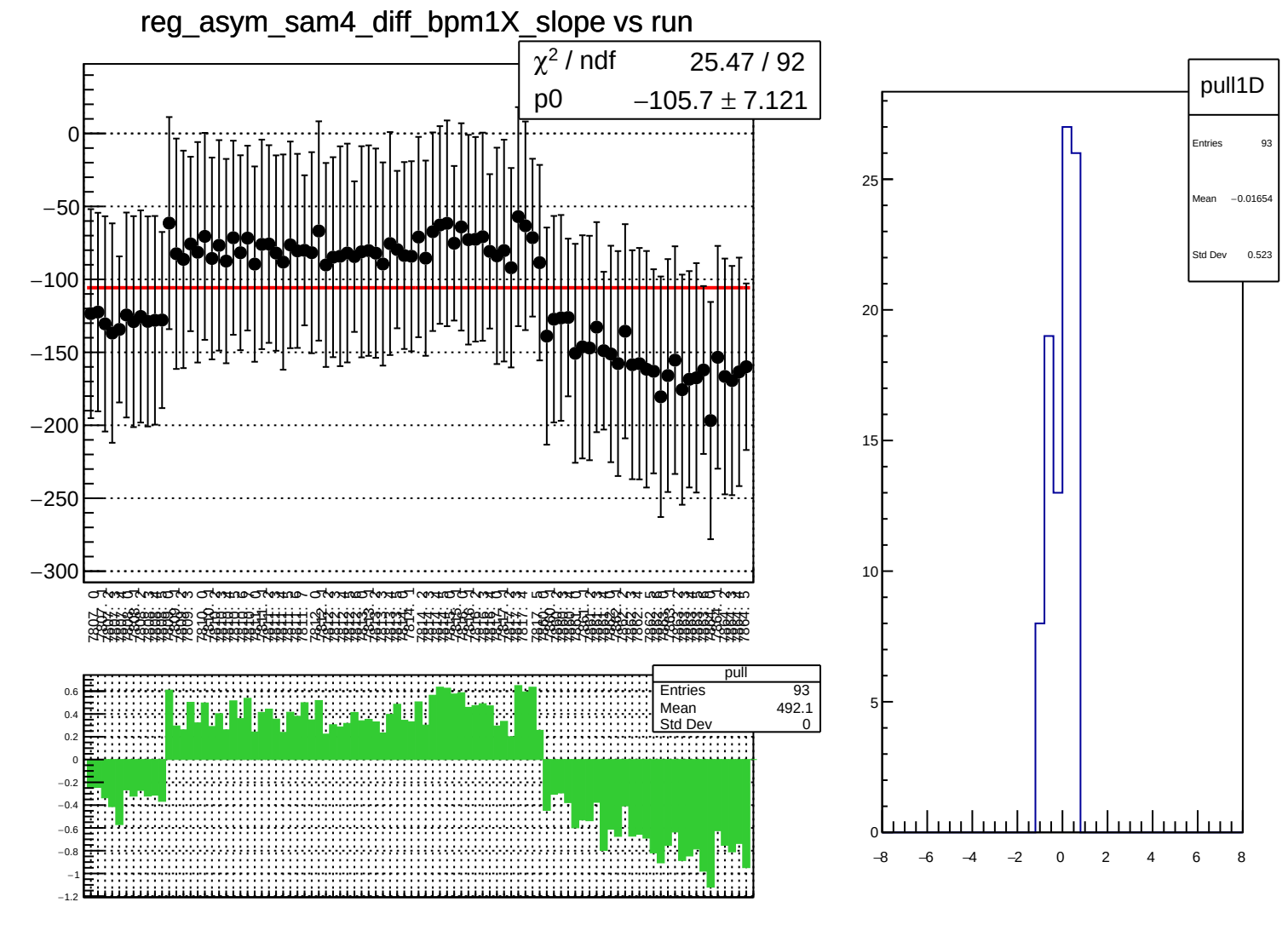

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 4.681 / 92
p0 2.925 ± 5.186
pull
Entries 93
Mean 534.9
Std Dev 0
pull1D
Entries 93
Mean 0.004211
Std Dev 0.2243

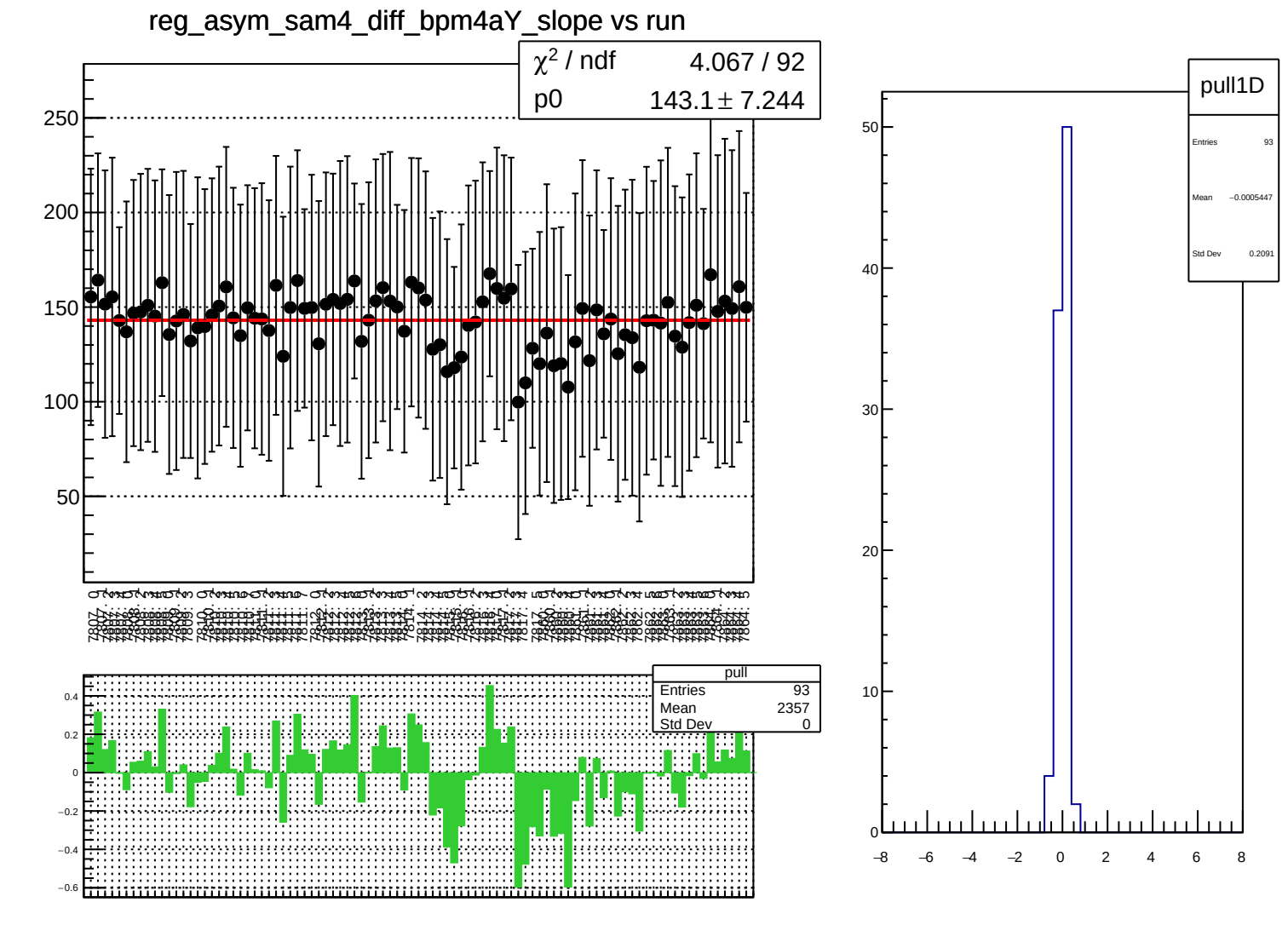

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 59.95 / 92
p0 −43.52 ± 4.608
pull
Entries 93
Mean 1899
Std Dev 0

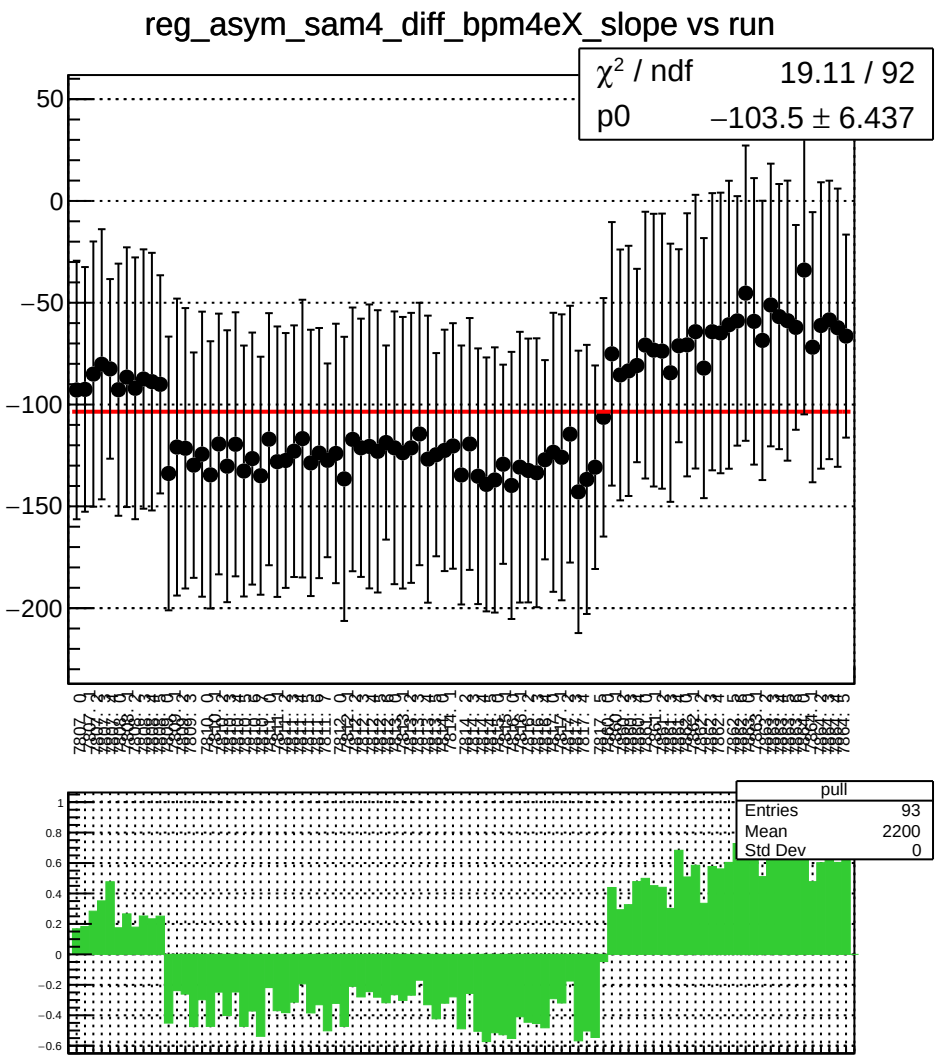

pull1D
Entries 93
Mean 0.006761
Std Dev 0.8029

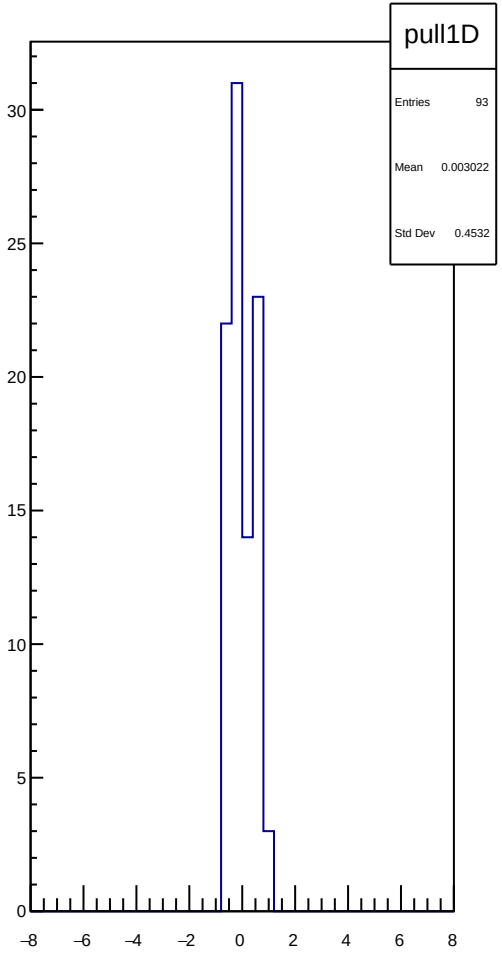

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 4.508 / 92
p0 14.87 ± 5.911
100
50
0
−50
−100
pull
Entries 93
Mean 459.6
Std Dev 0
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 93
Mean −0.004236
Std Dev 0.2201
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

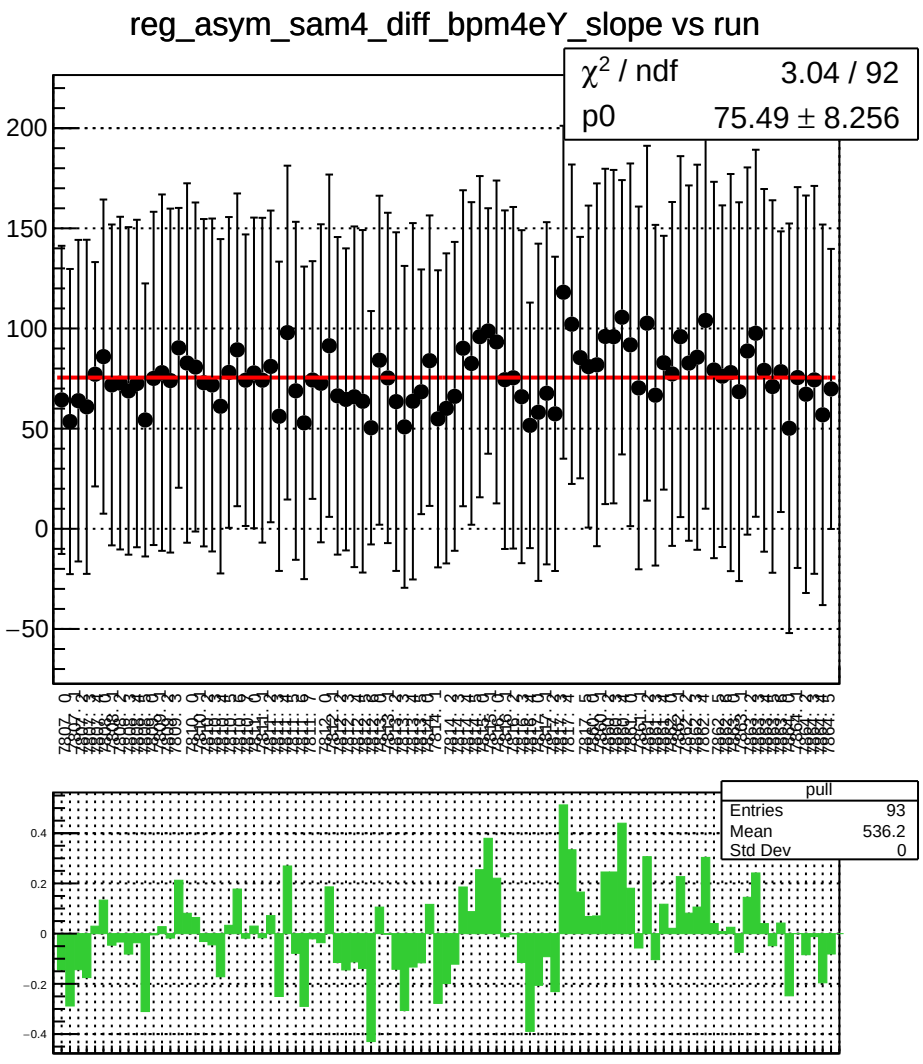

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 53.12 / 92
p0 −1.031 ± 0.1718
pull
Entries 93
Mean 208.4
Std Dev 0
pull1D
Entries 93
Mean −0.05935
Std Dev 0.7534

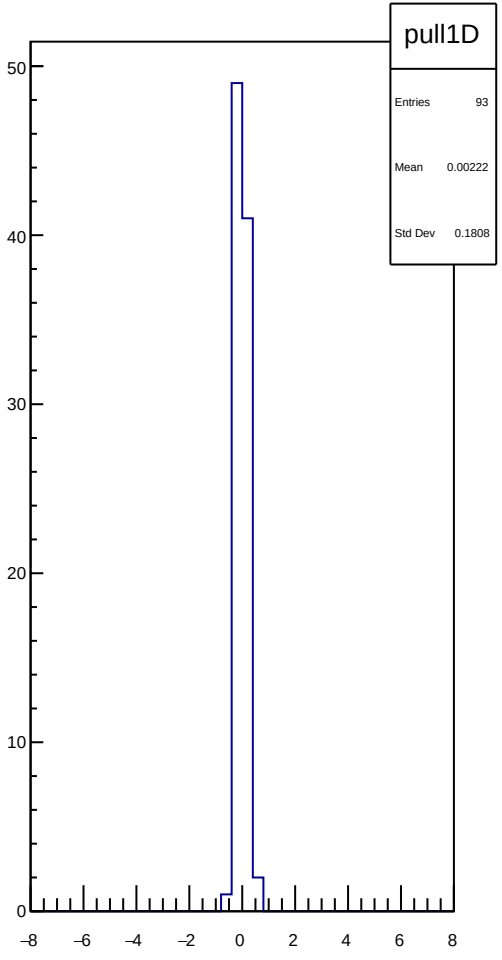

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 25.47 / 92
p0 −105.7 ± 7.121
pull
Entries 93
Mean 492.1
Std Dev 0
pull1D
Entries 93
Mean −0.01654
Std Dev 0.523

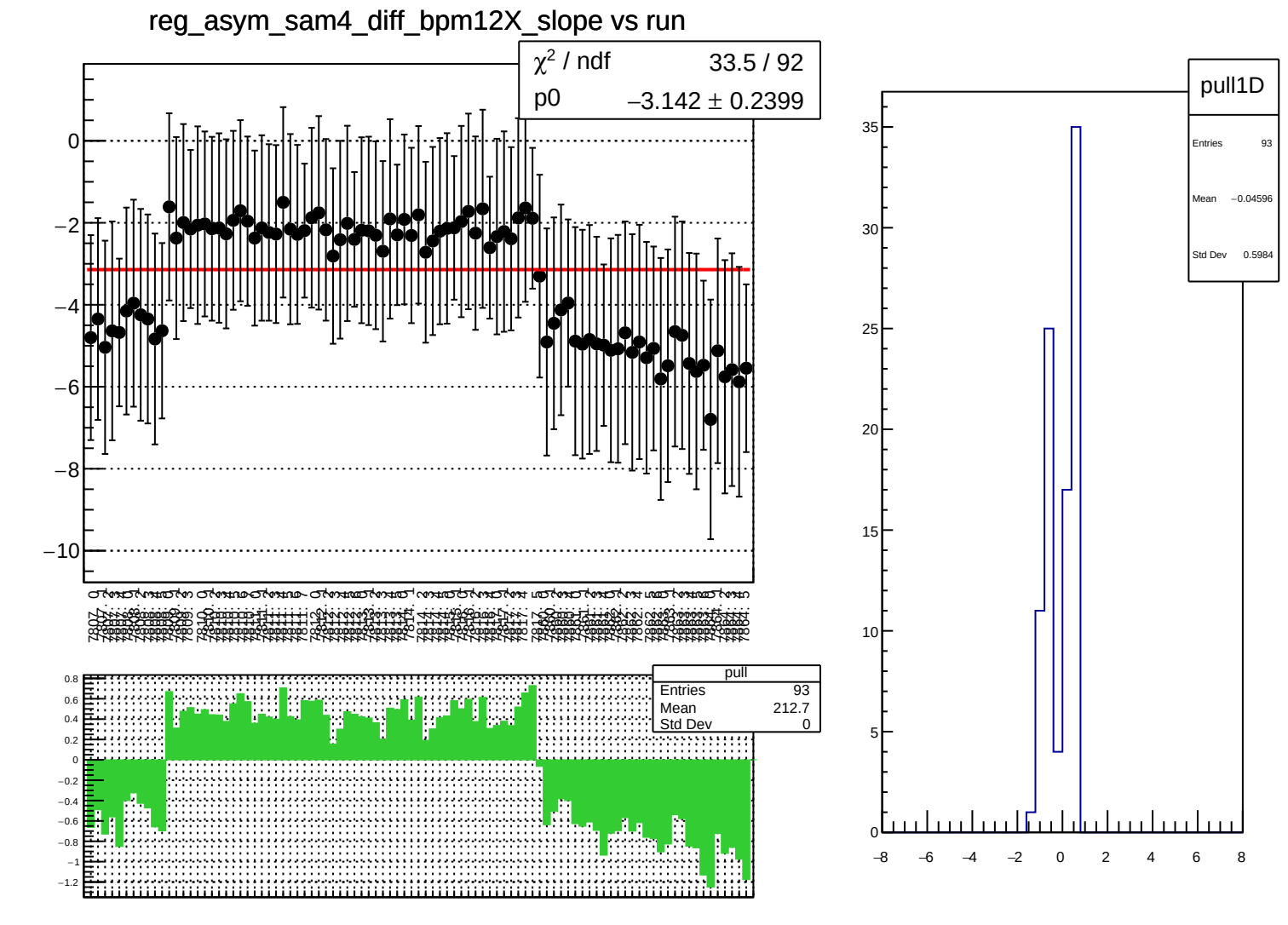

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 4.067 / 92
p0 143.1 ± 7.244
250
200
150
100
50
pull
Entries 93
Mean 2357
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 93
Mean −0.0005447
Std Dev 0.2091
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

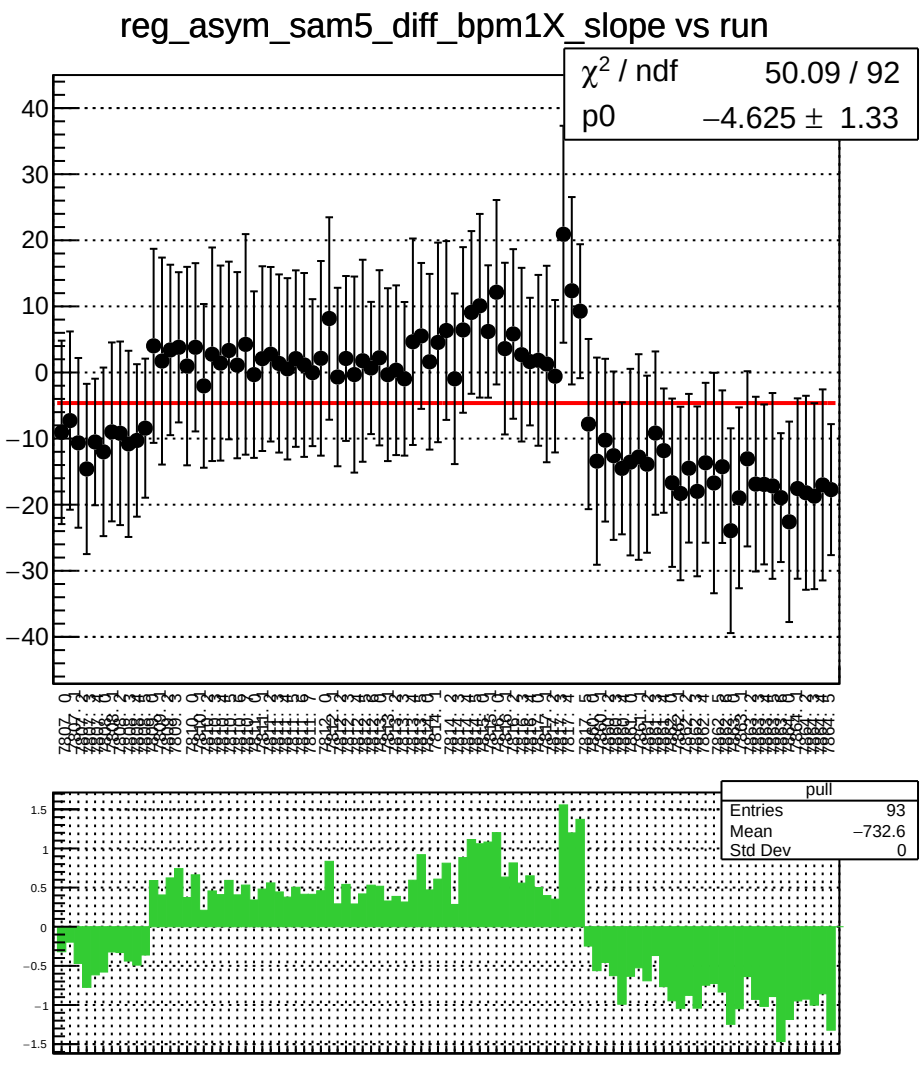

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 19.11 / 92
p0 −103.5 ± 6.437
pull
Entries 93
Mean 2200
Std Dev 0

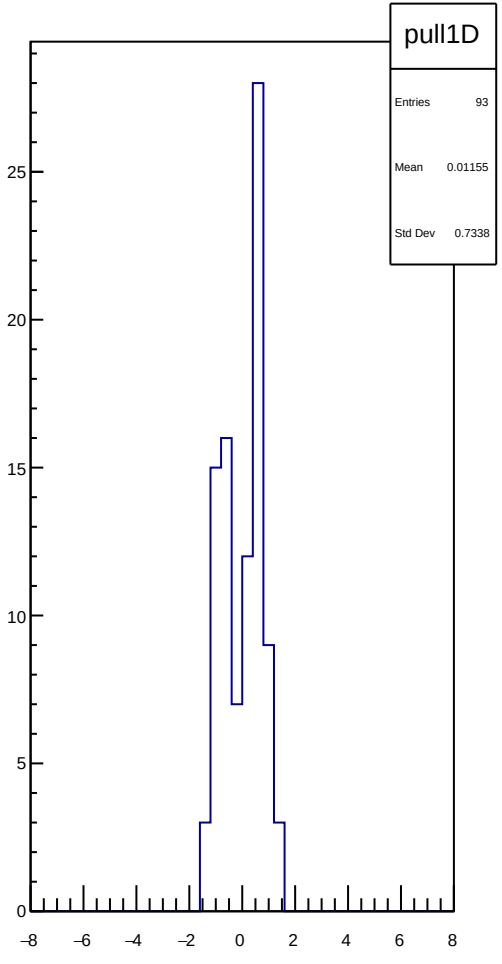

pull1D
Entries 93
Mean 0.003022
Std Dev 0.4532

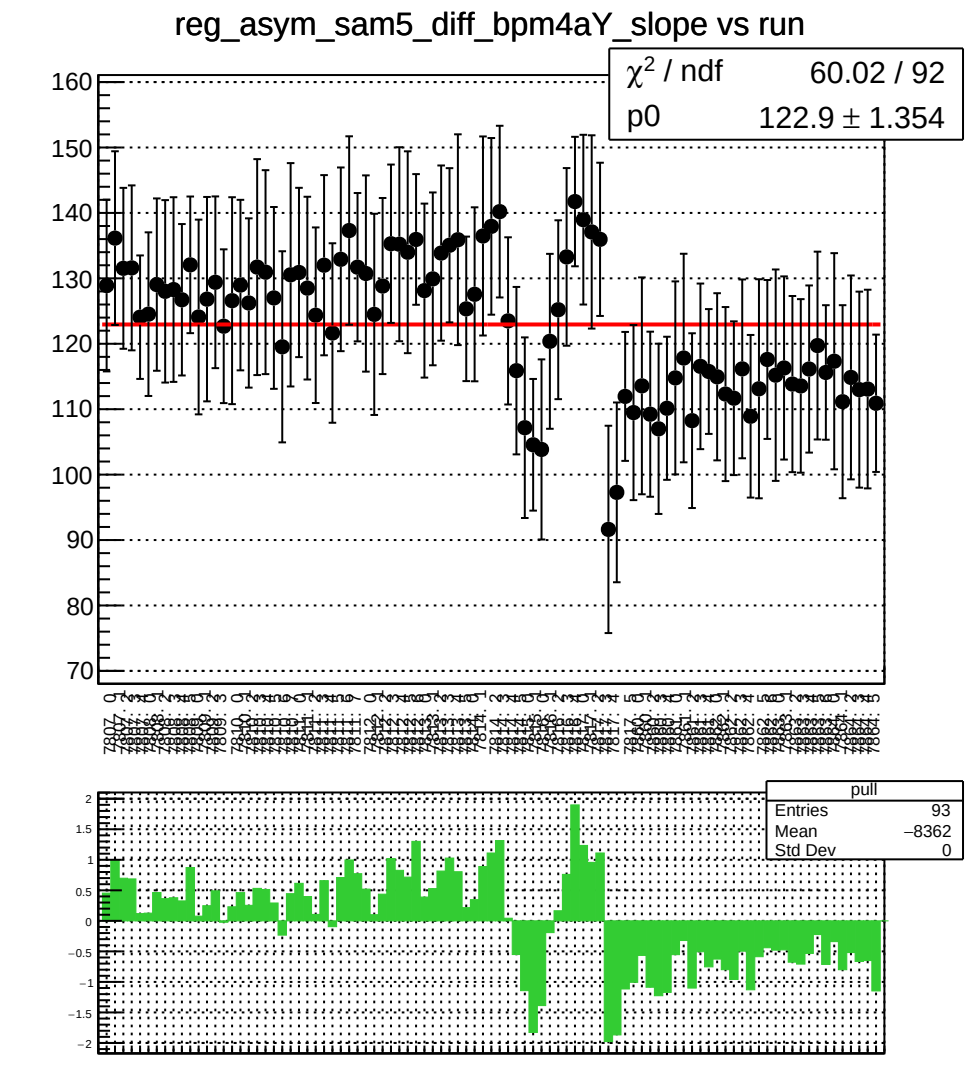

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 3.04 / 92
p0 75.49 ± 8.256
200
150
100
50
0
−50
pull
Entries 93
Mean 536.2
Std Dev 0
0.4
0.2
0
−0.2
−0.4

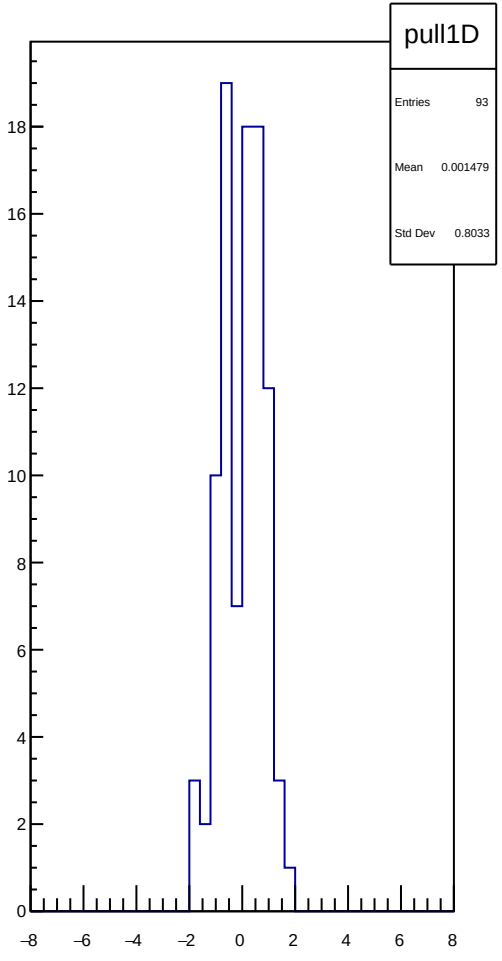

pull1D
Entries 93
Mean 0.00222
Std Dev 0.1808
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

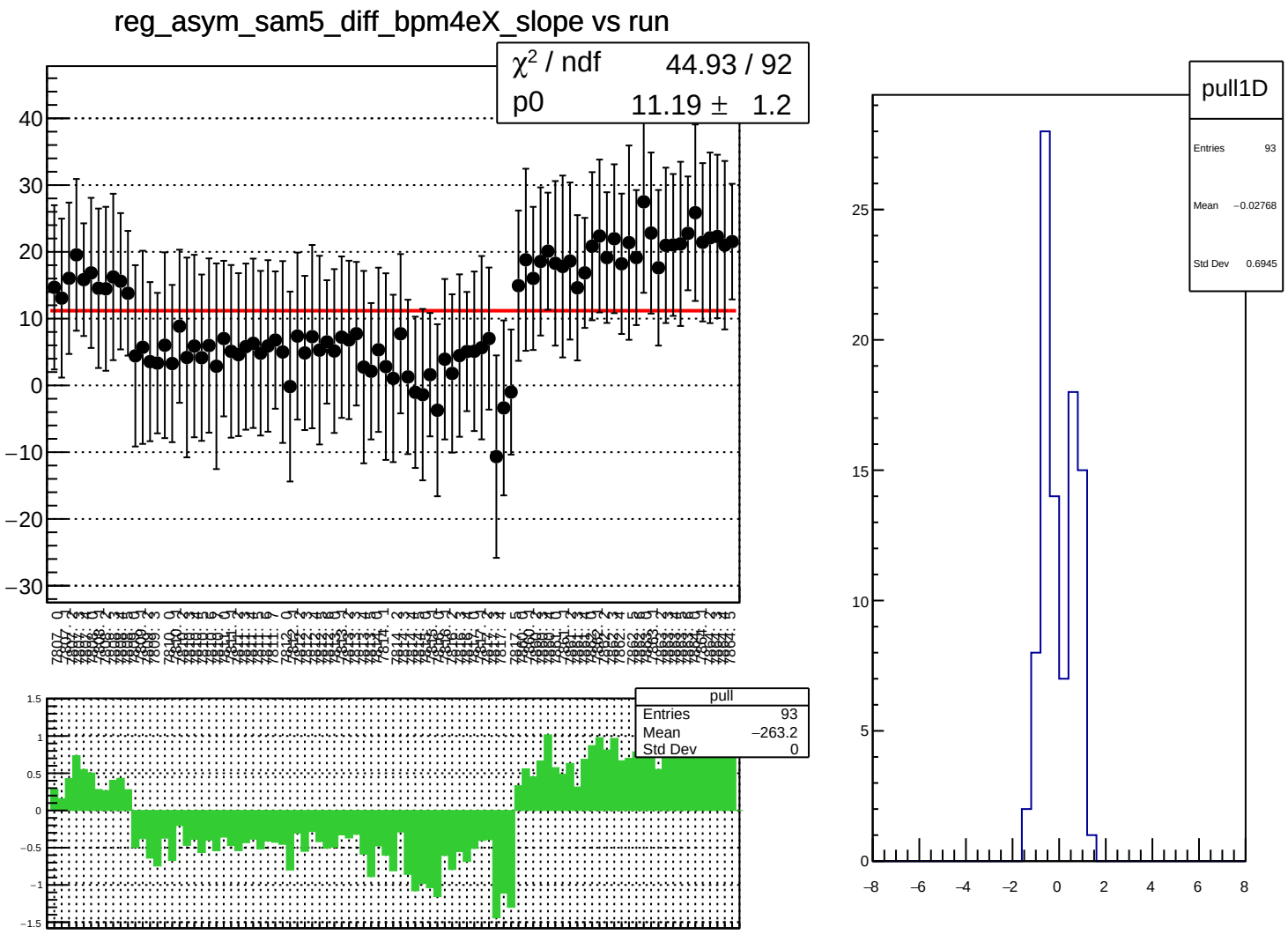

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 33.5 / 92
p0 −3.142 ± 0.2399
pull
Entries 93
Mean 212.7
Std Dev 0
pull1D
Entries 93
Mean −0.04596
Std Dev 0.5984

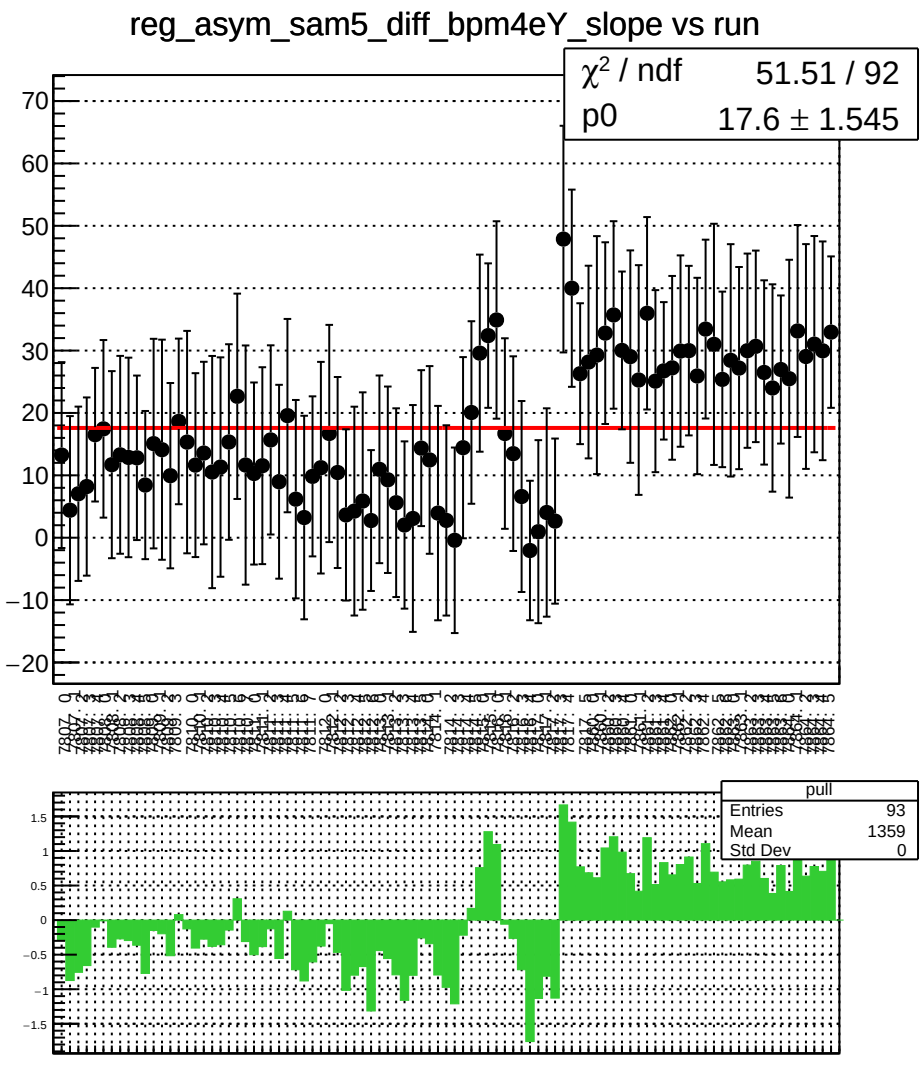

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 50.09 / 92
p0 −4.625 ± 1.33
pull
Entries 93
Mean −732.6
Std Dev 0

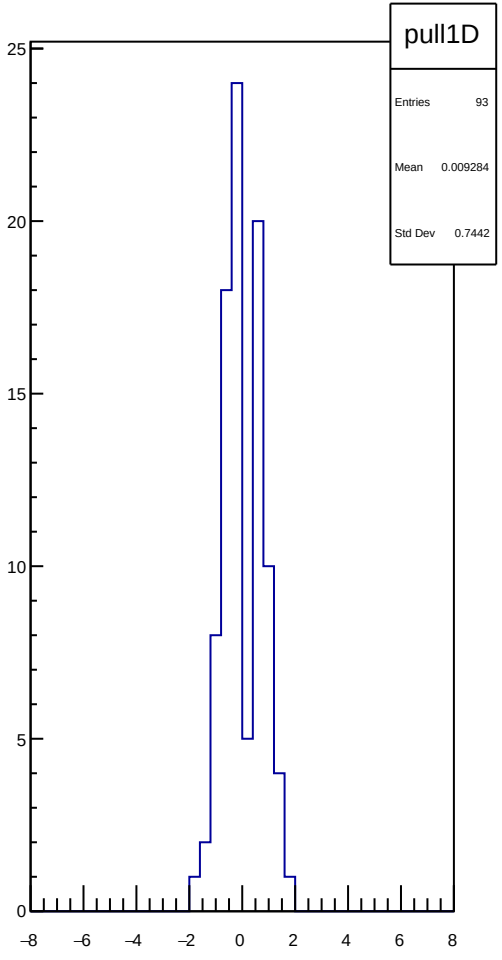

pull1D
Entries 93
Mean 0.01155
Std Dev 0.7338

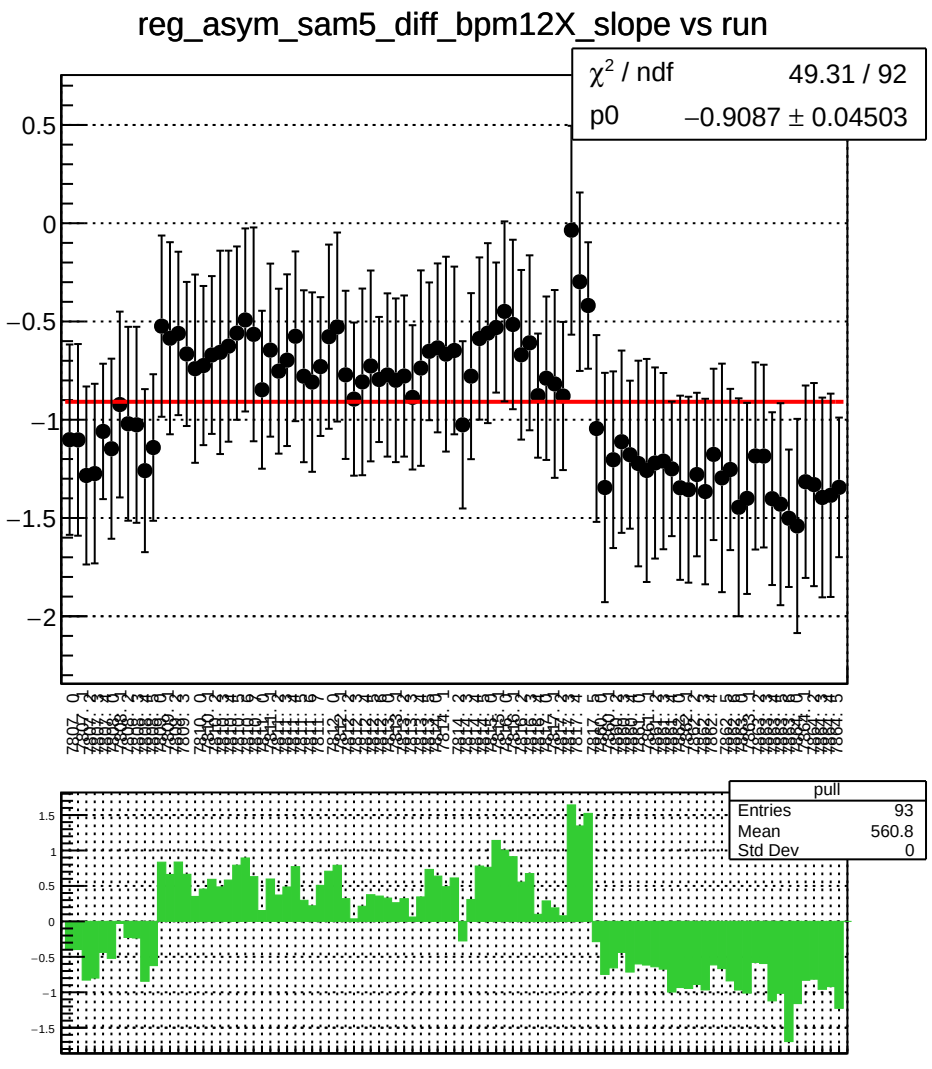

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 60.02 / 92
p0 122.9 ± 1.354
pull
Entries 93
Mean −8362
Std Dev 0

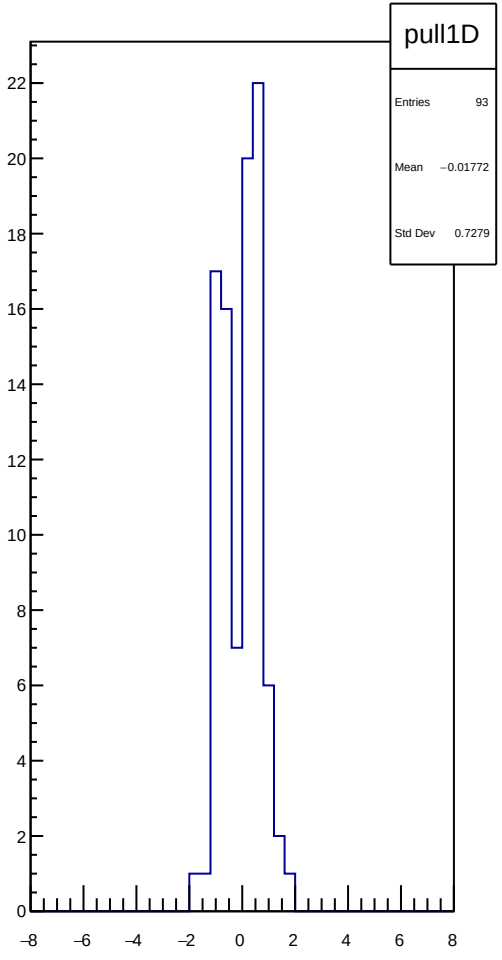

pull1D
Entries 93
Mean 0.001479
Std Dev 0.8033

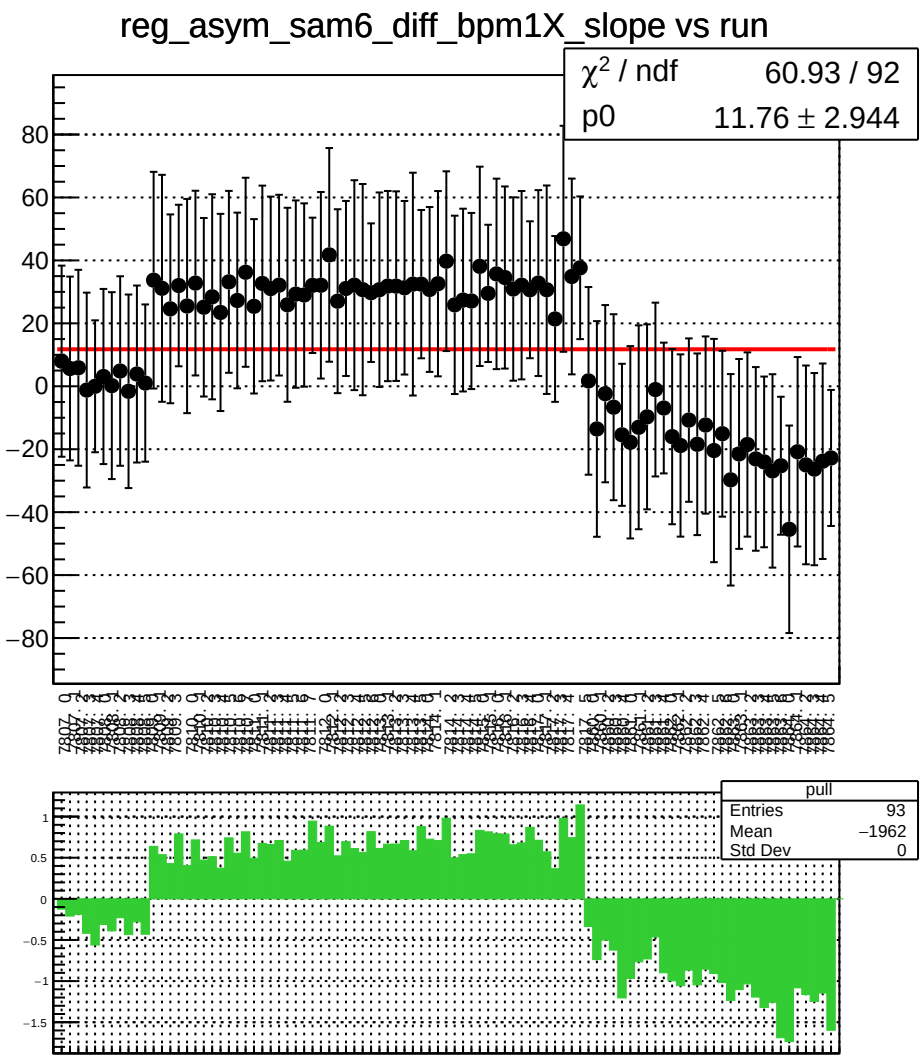

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 44.93 / 92
p0 11.19 ± 1.2
pull
Entries 93
Mean −263.2
Std Dev 0
pull1D
Entries 93
Mean −0.02768
Std Dev 0.6945

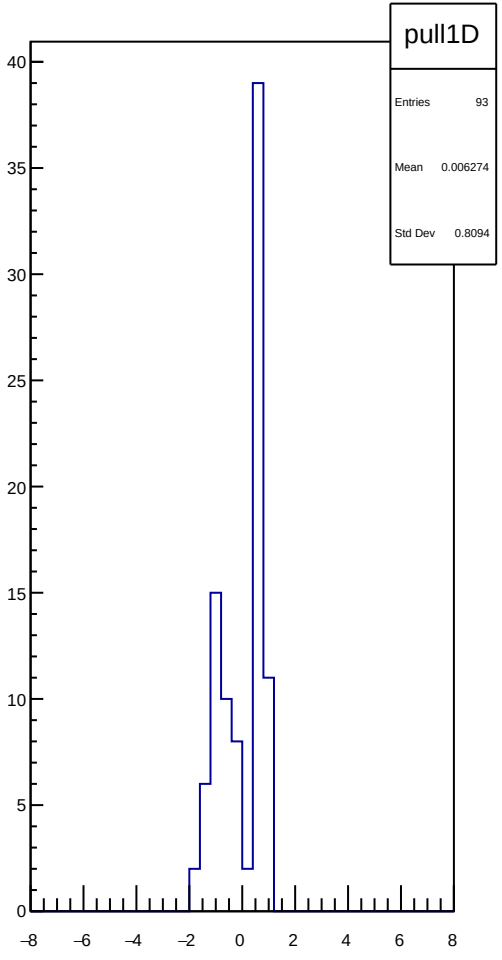

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 51.51 / 92
p0 17.6 ± 1.545
pull
Entries 93
Mean 1359
Std Dev 0

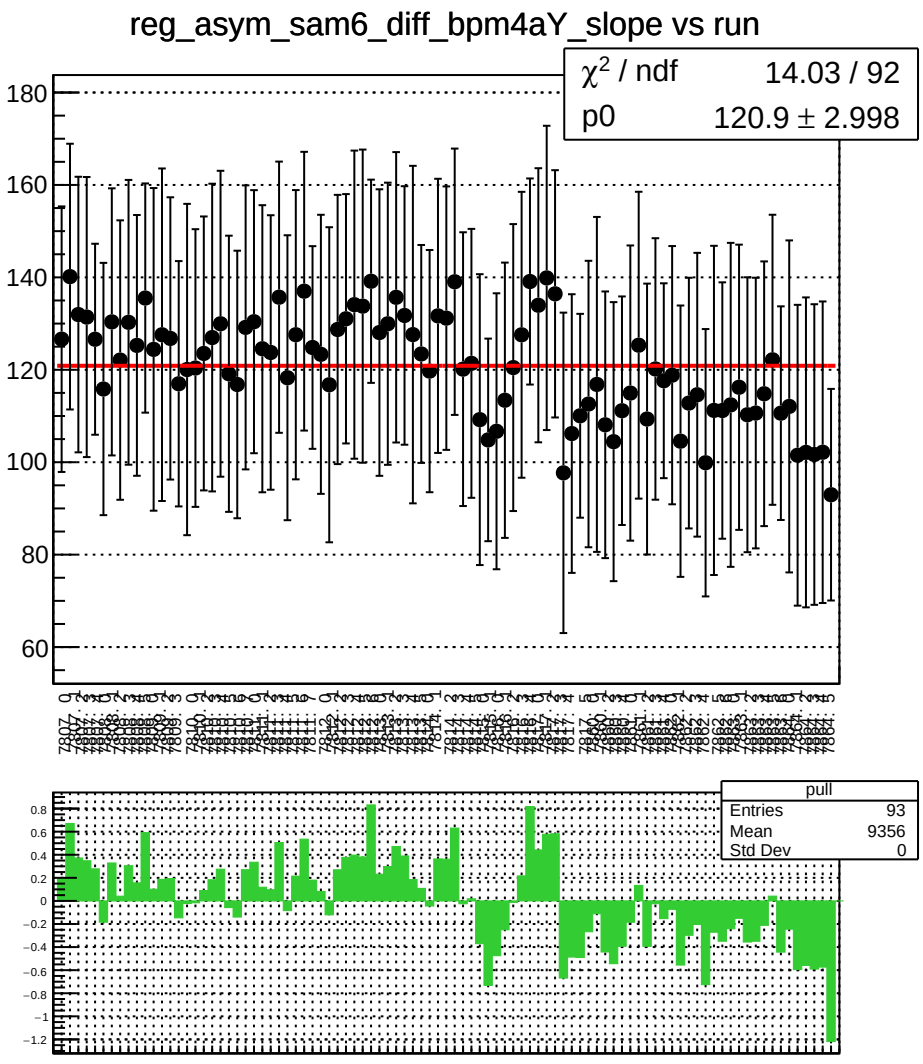

pull1D
Entries 93
Mean 0.009284
Std Dev 0.7442

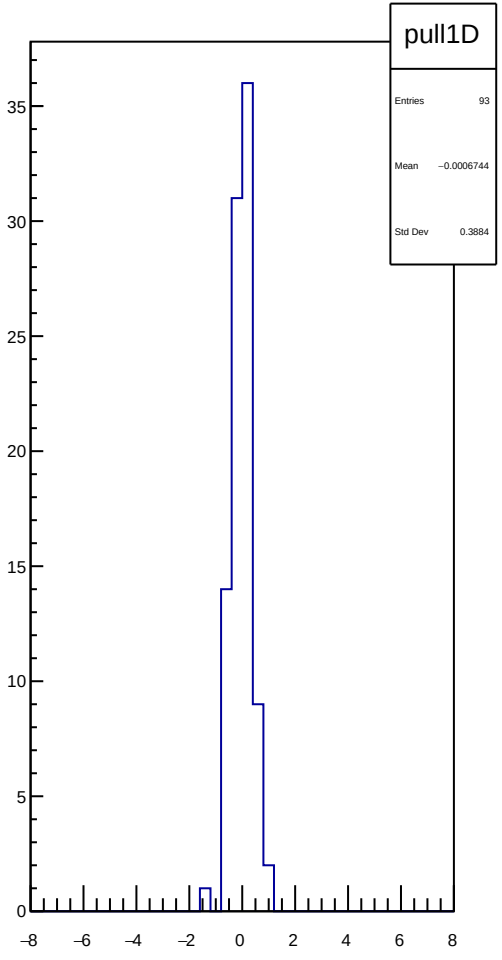

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 49.31 / 92
p0 −0.9087 ± 0.04503
pull
Entries 93
Mean 560.8
Std Dev 0

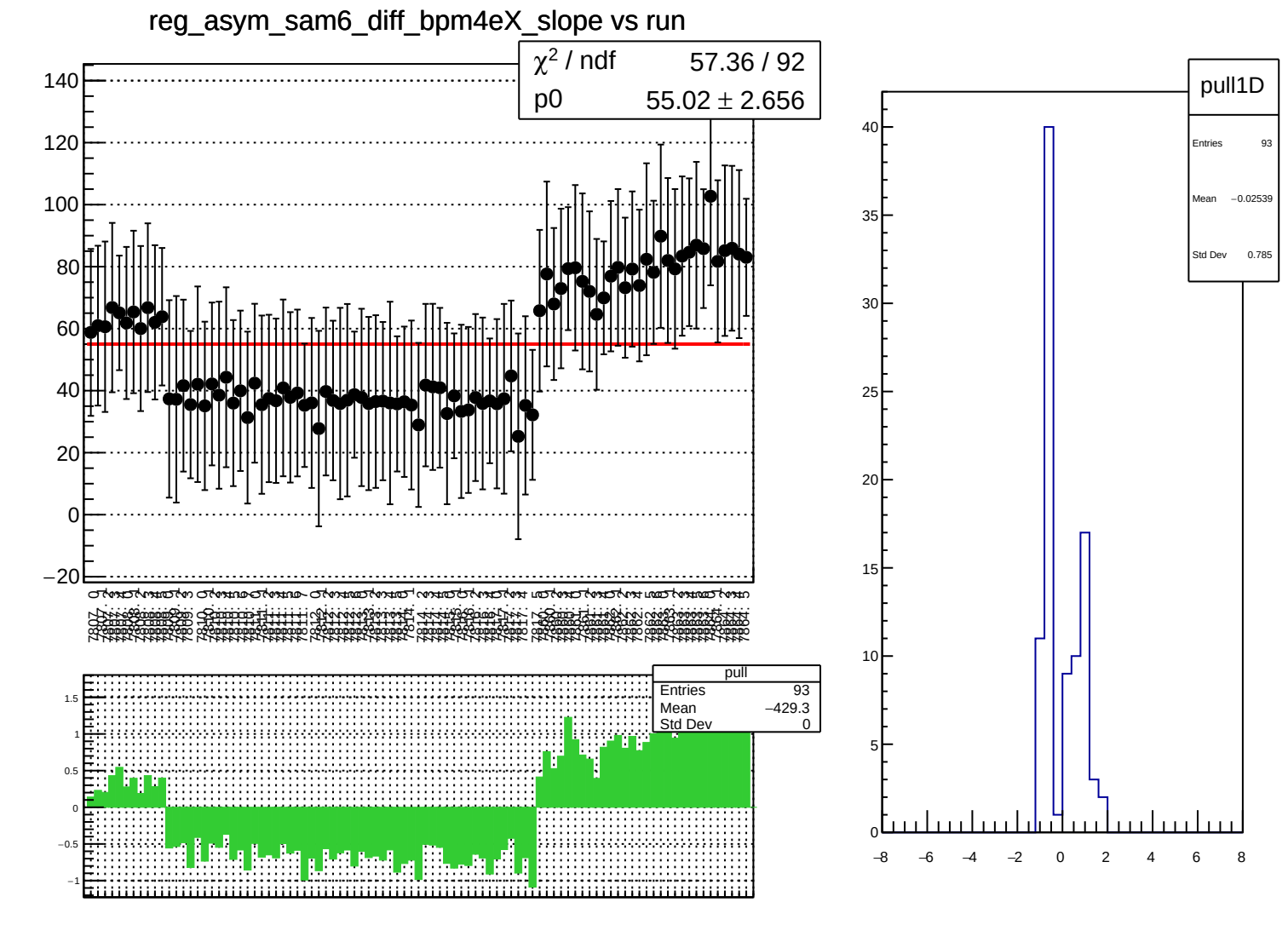

pull1D
Entries 93
Mean −0.01772
Std Dev 0.7279

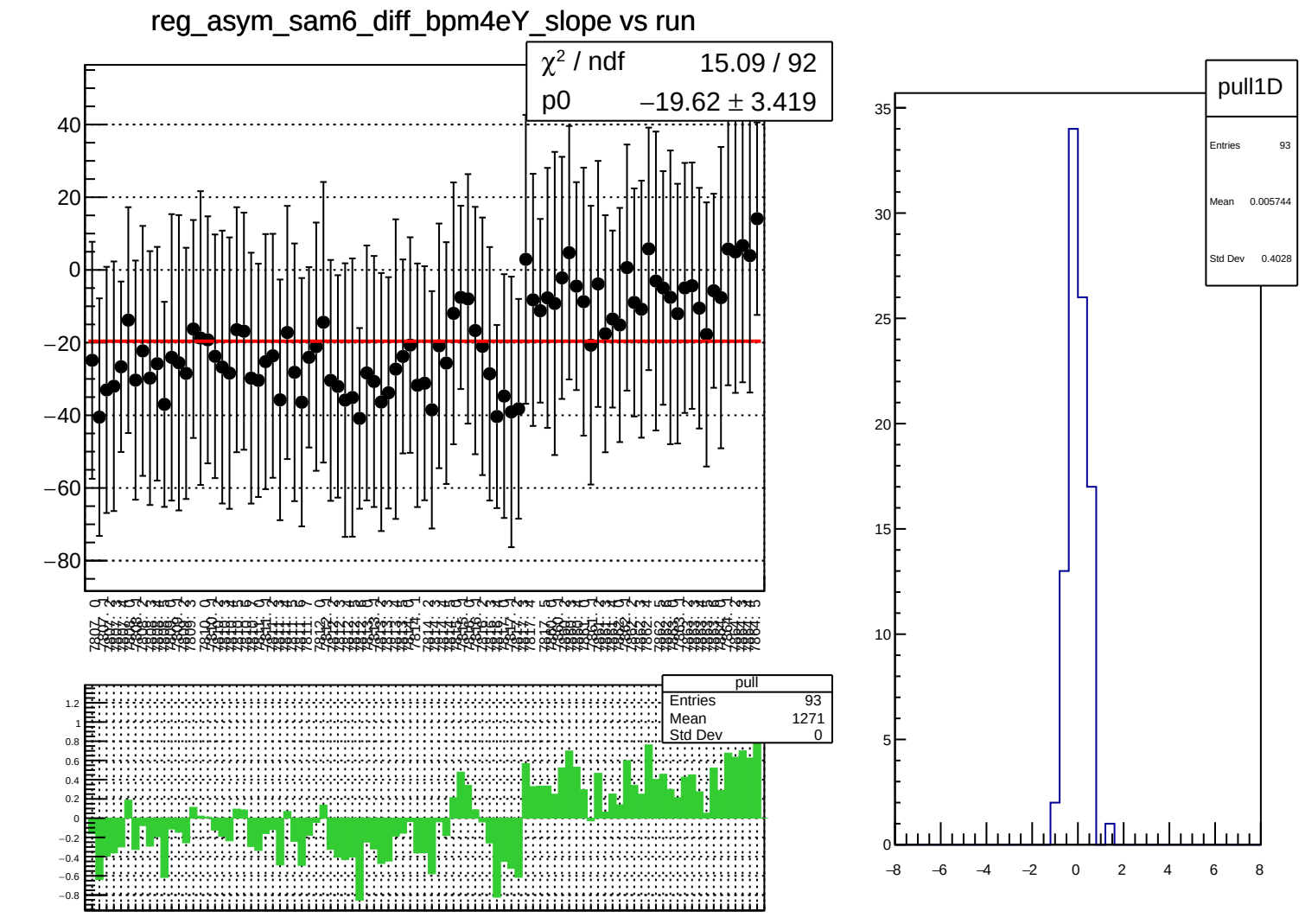

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 60.93 / 92
p0 11.76 ± 2.944
pull
Entries 93
Mean −1962
Std Dev 0

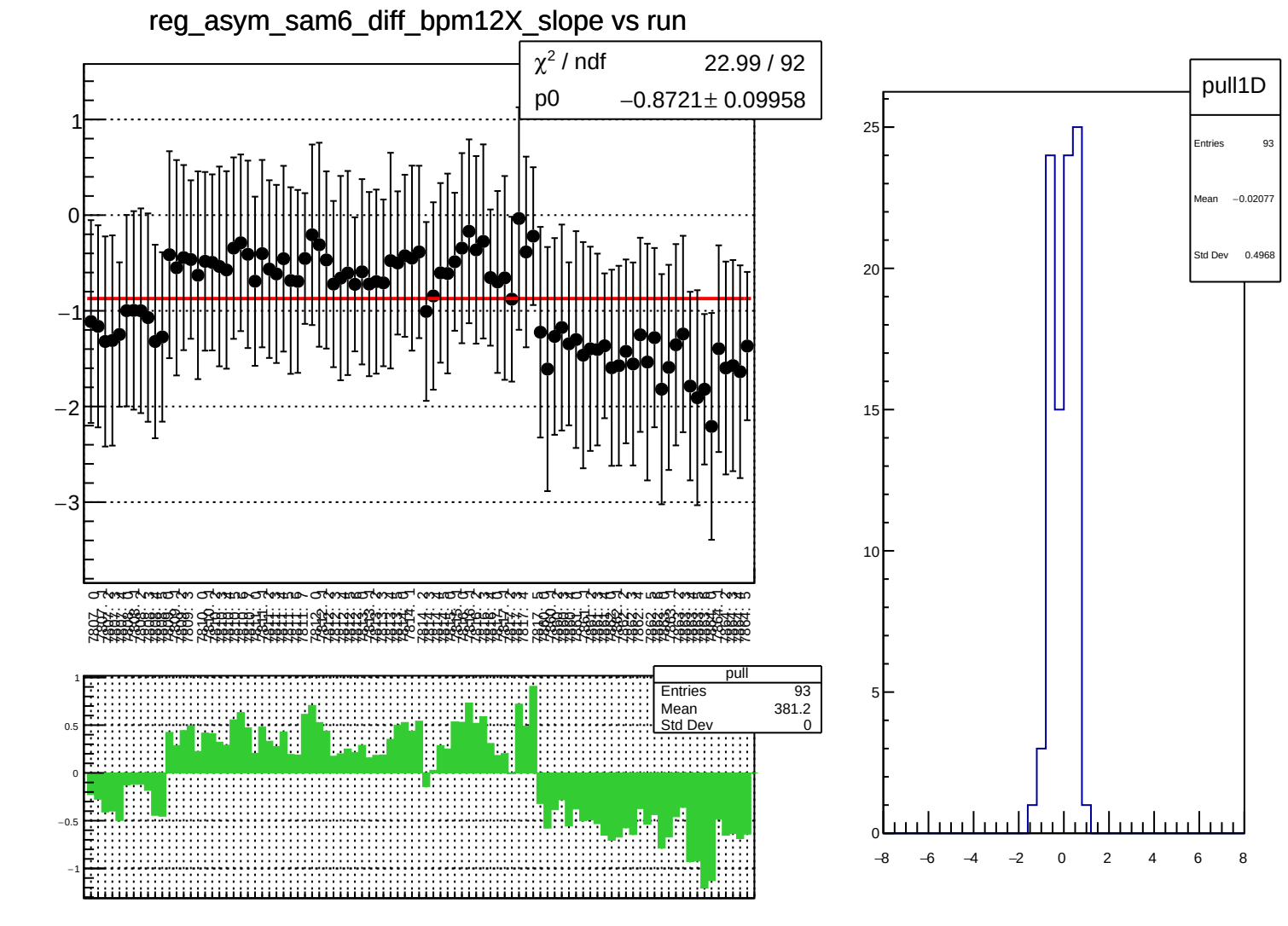

pull1D
Entries 93
Mean 0.006274
Std Dev 0.8094

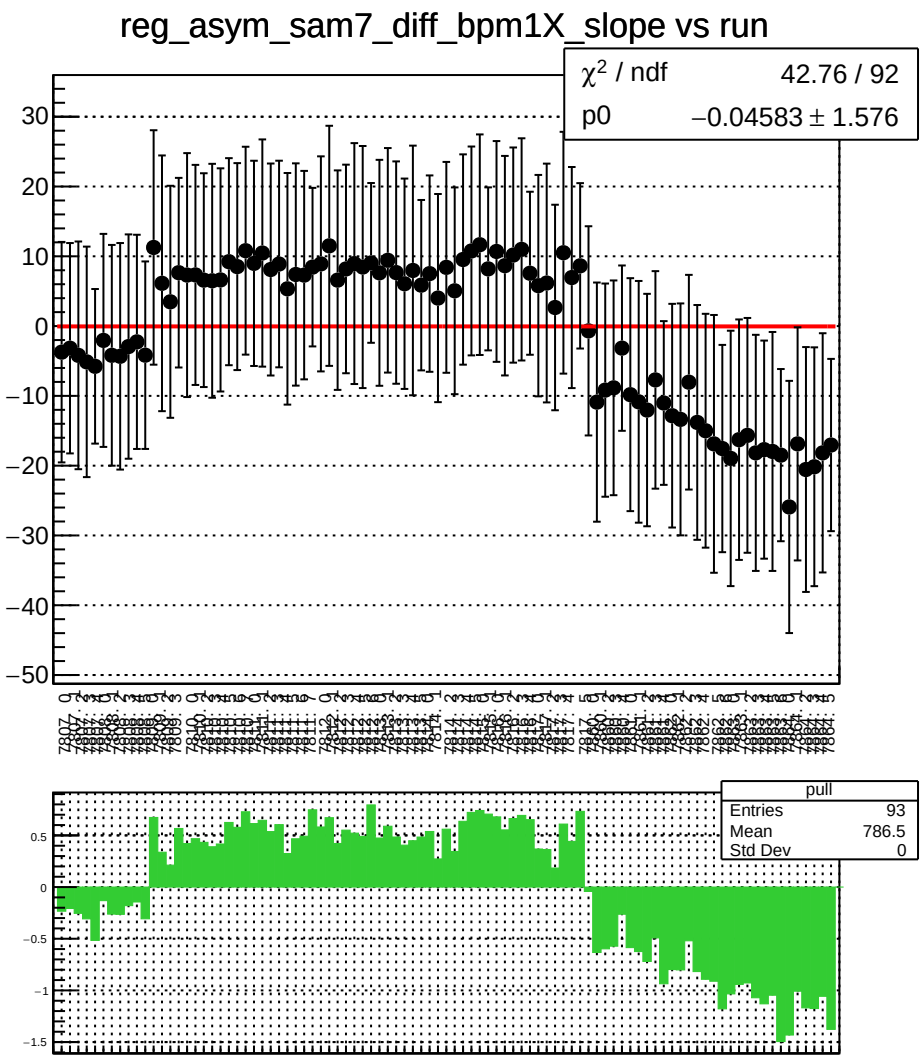

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 14.03 / 92
p0 120.9 ± 2.998
pull
Entries 93
Mean 9356
Std Dev 0

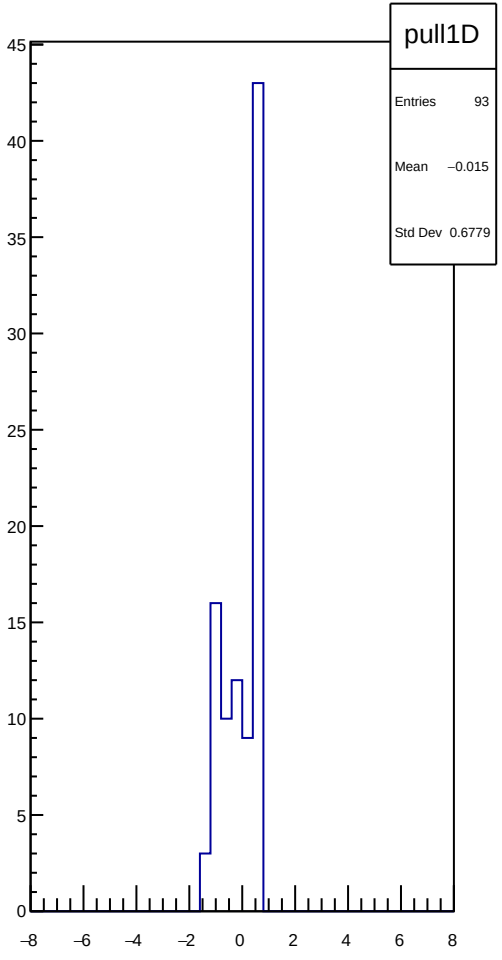

pull1D
Entries 93
Mean −0.0006744
Std Dev 0.3884

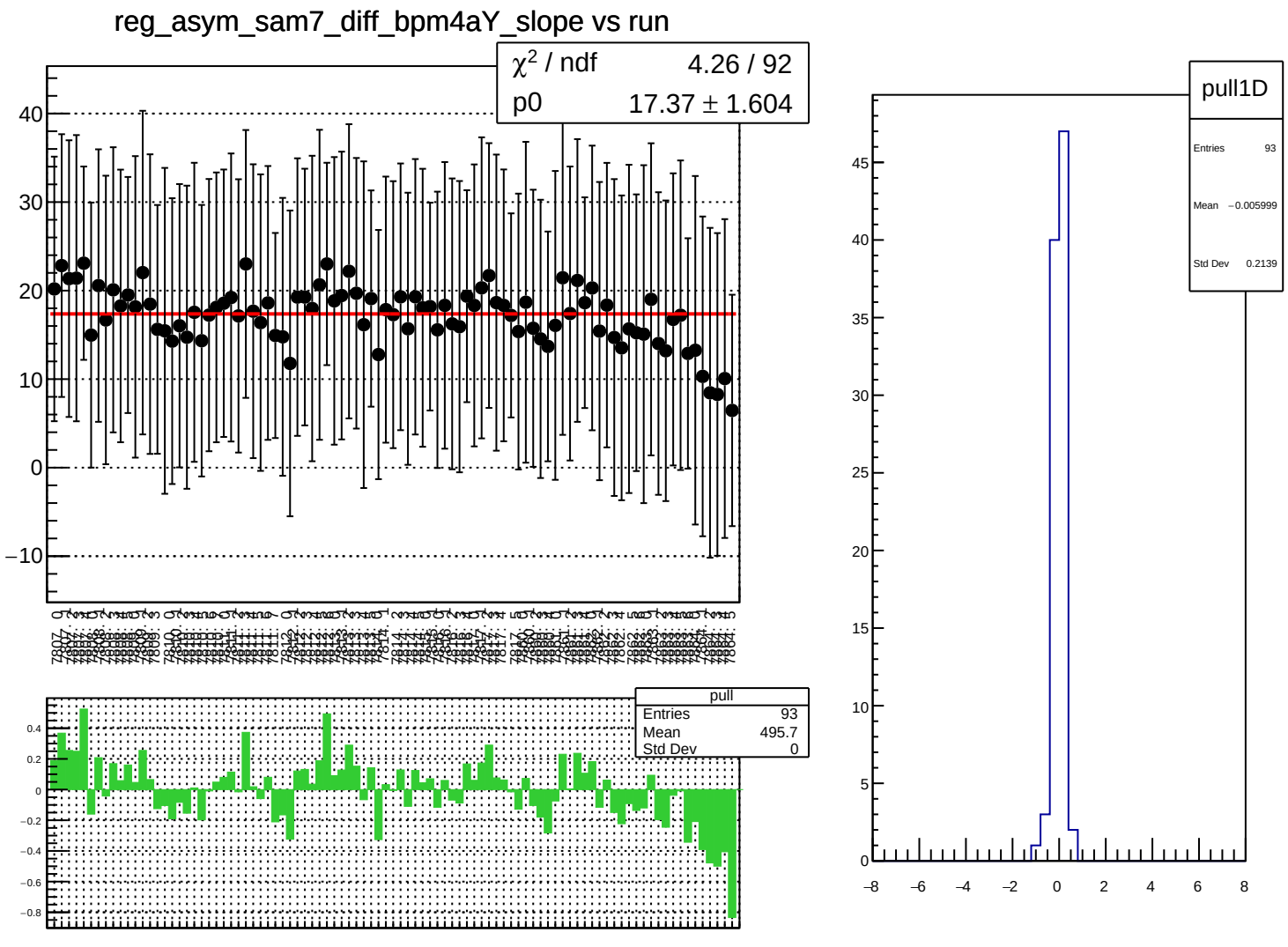

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 57.36 / 92
p0 55.02 ± 2.656
pull
Entries 93
Mean −429.3
Std Dev 0
pull1D
Entries 93
Mean −0.02539
Std Dev 0.785

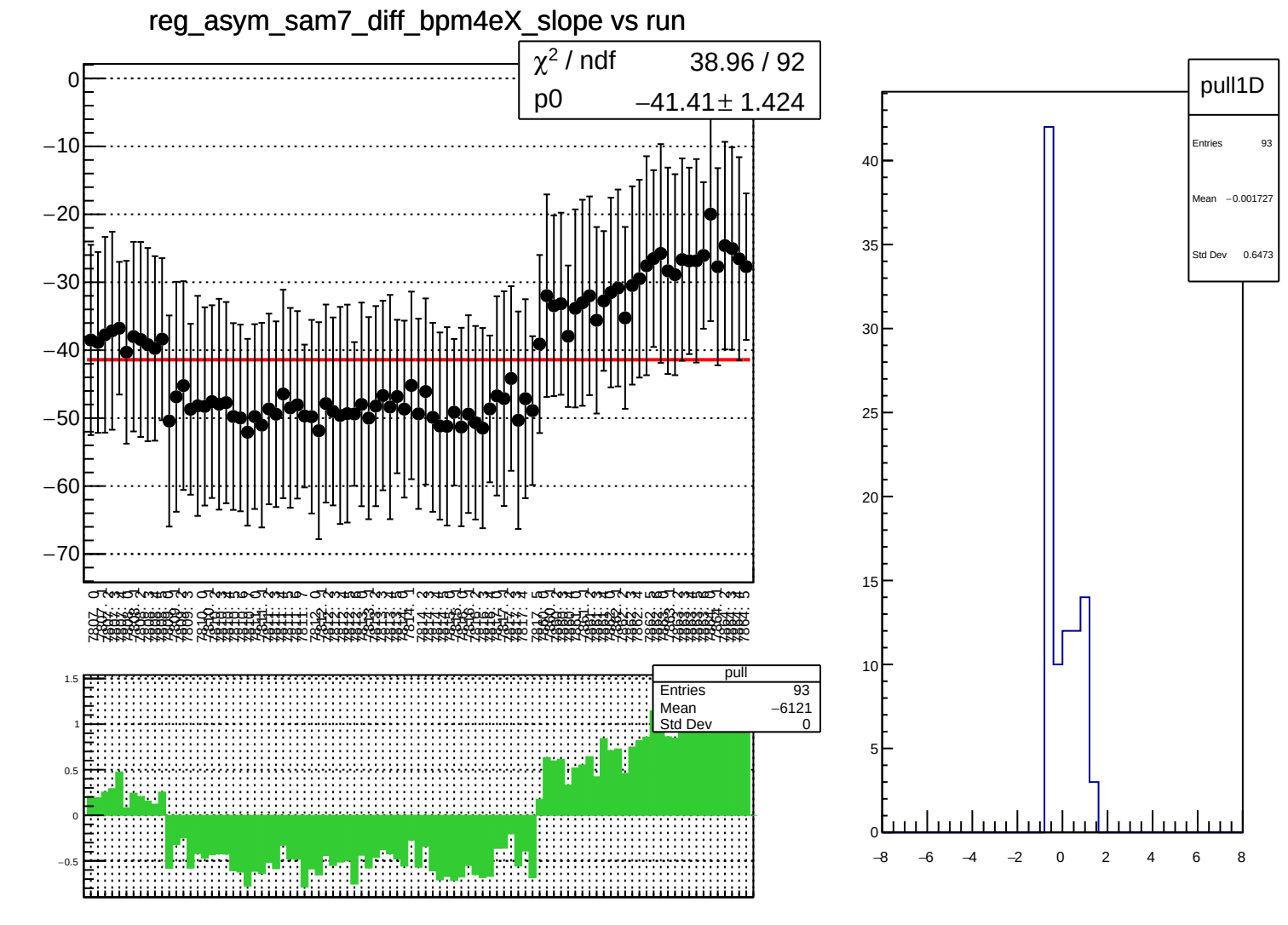

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 15.09 / 92
p0 −19.62 ± 3.419
pull
Entries 93
Mean 1271
Std Dev 0
pull1D
Entries 93
Mean 0.005744
Std Dev 0.4028

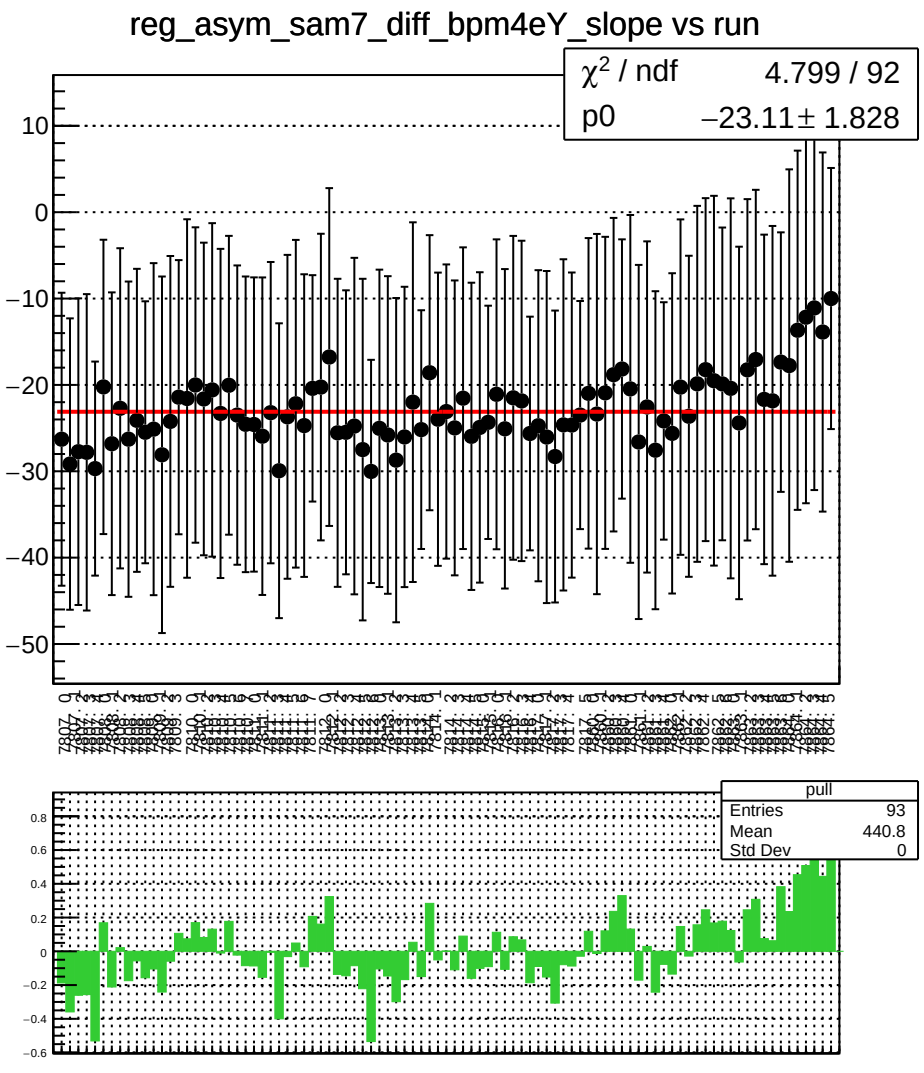

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 22.99 / 92
p0 −0.8721± 0.09958
pull
Entries 93
Mean 381.2
Std Dev 0
pull1D
Entries 93
Mean −0.02077
Std Dev 0.4968

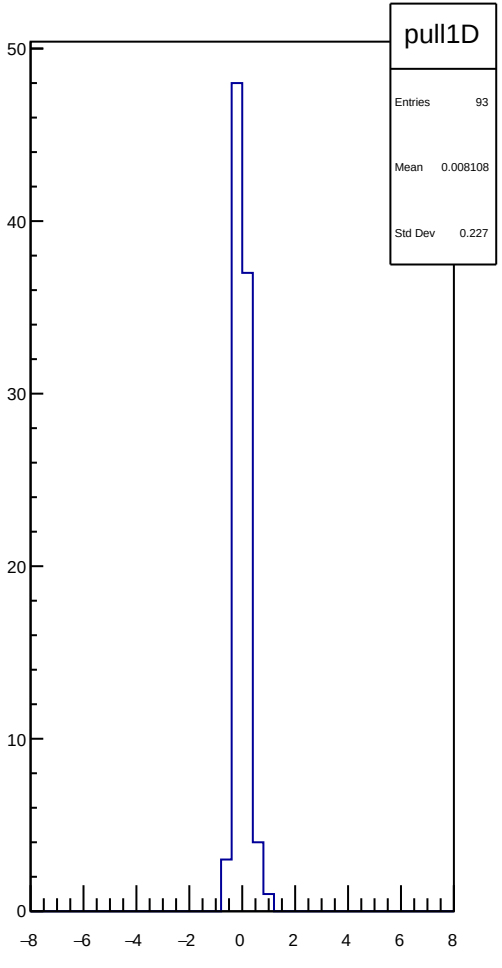

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 42.76 / 92
p0 −0.04583 ± 1.576
pull
Entries 93
Mean 786.5
Std Dev 0

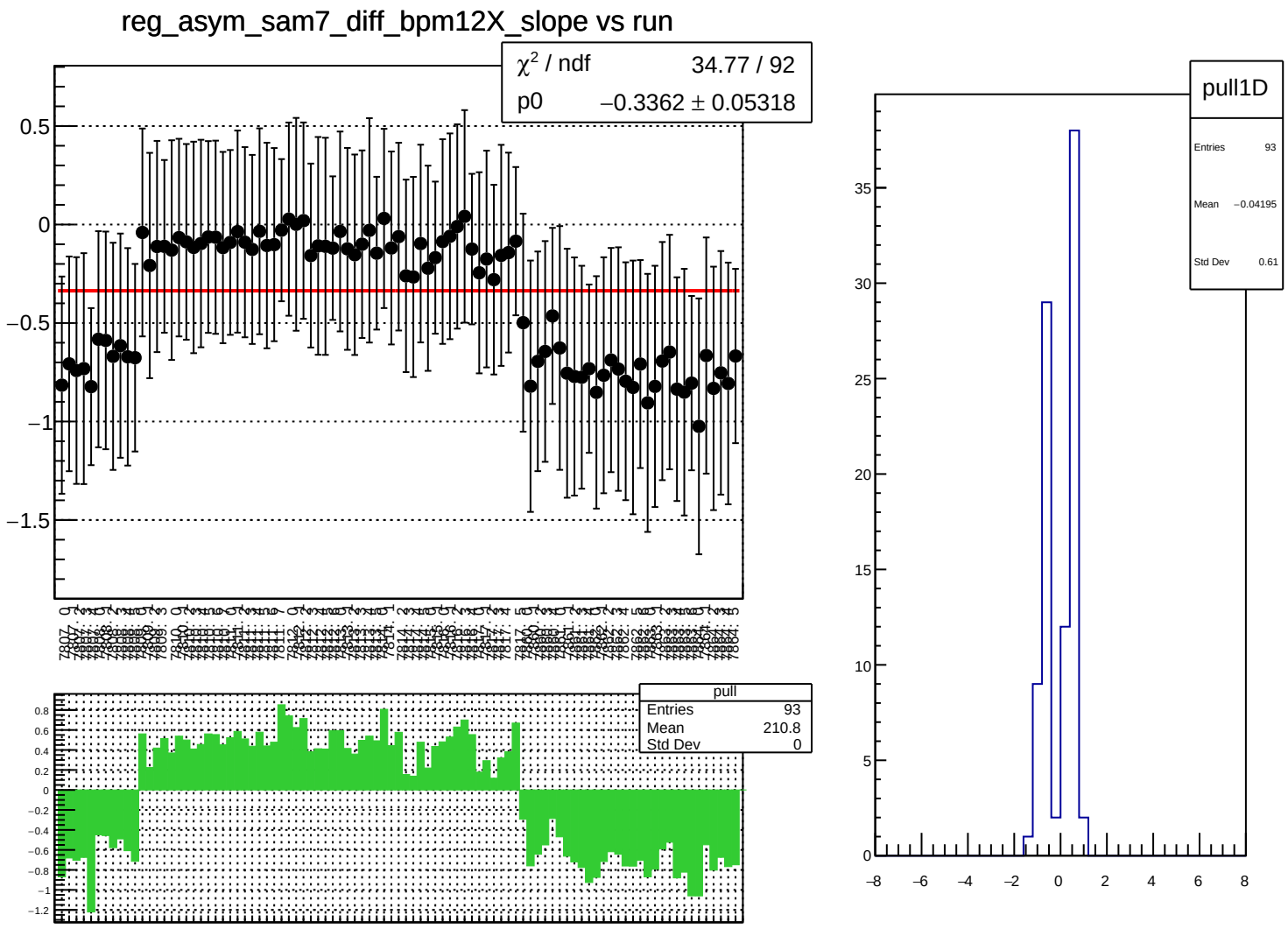

pull1D
Entries 93
Mean −0.015
Std Dev 0.6779

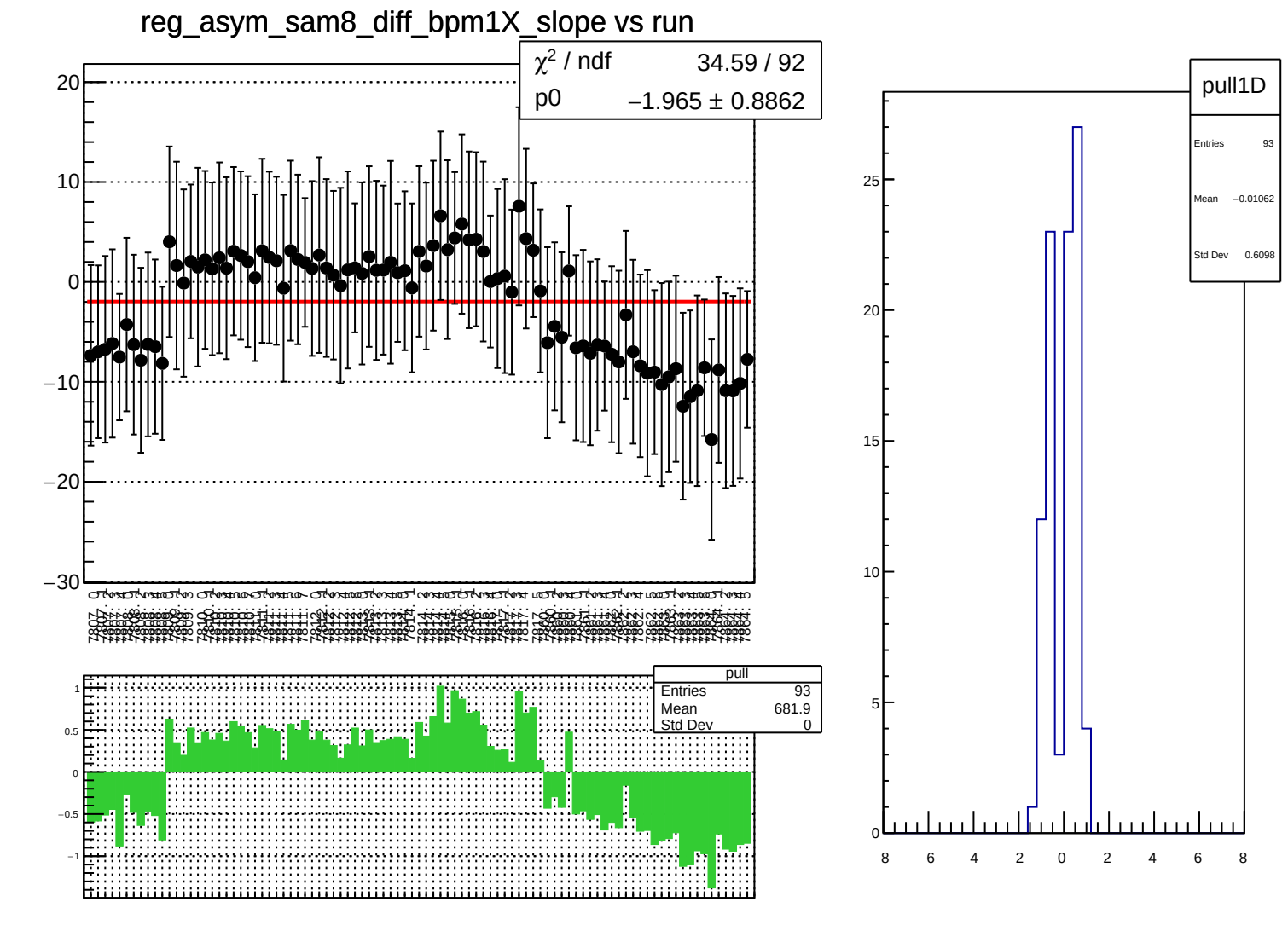

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 4.26 / 92
p0 17.37 ± 1.604
pull
Entries 93
Mean 495.7
Std Dev 0
pull1D
Entries 93
Mean −0.005999
Std Dev 0.2139

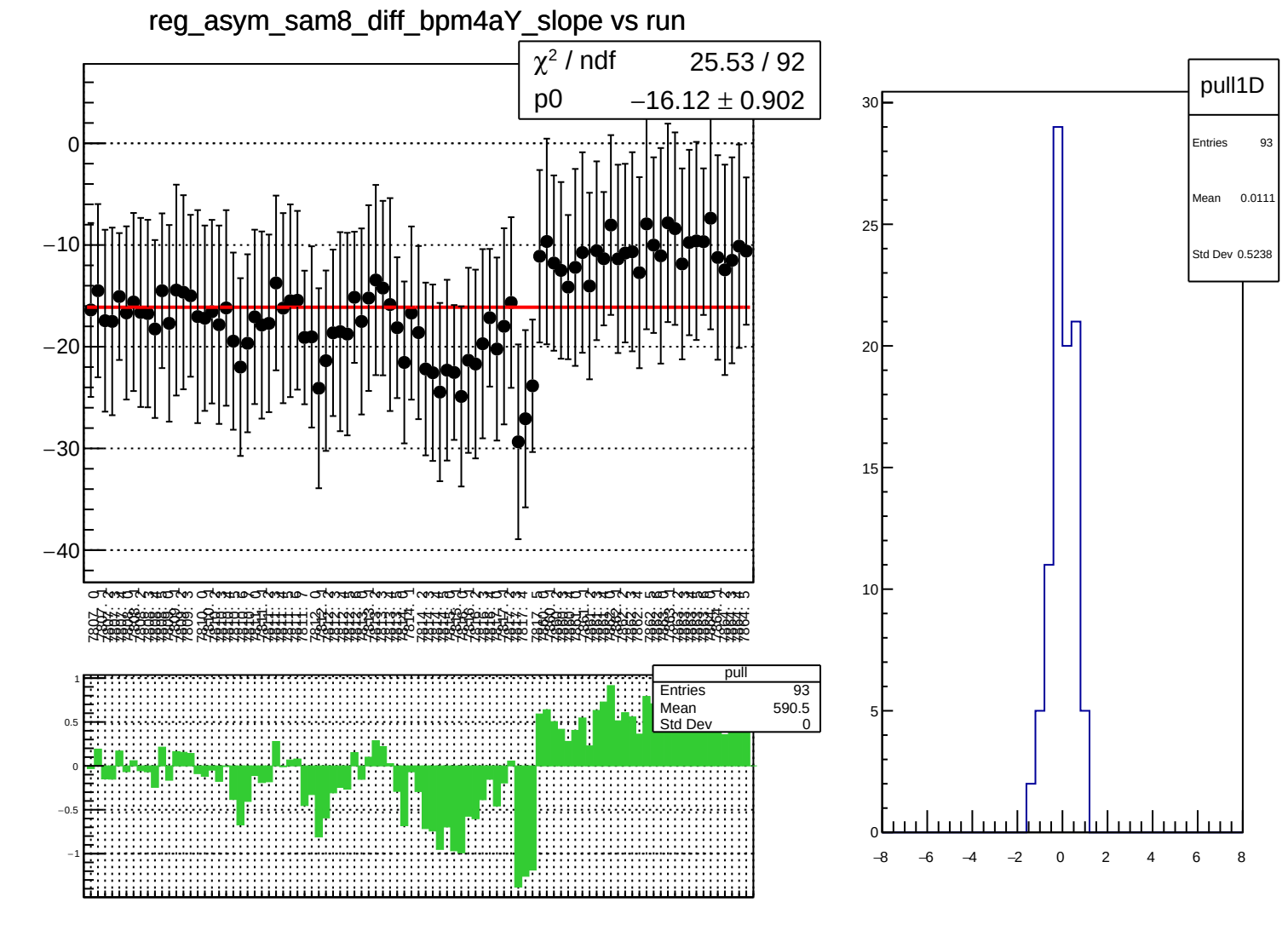

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 38.96 / 92
p0 −41.41 ± 1.424
pull
Entries 93
Mean −6121
Std Dev 0
pull1D
Entries 93
Mean −0.001727
Std Dev 0.6473

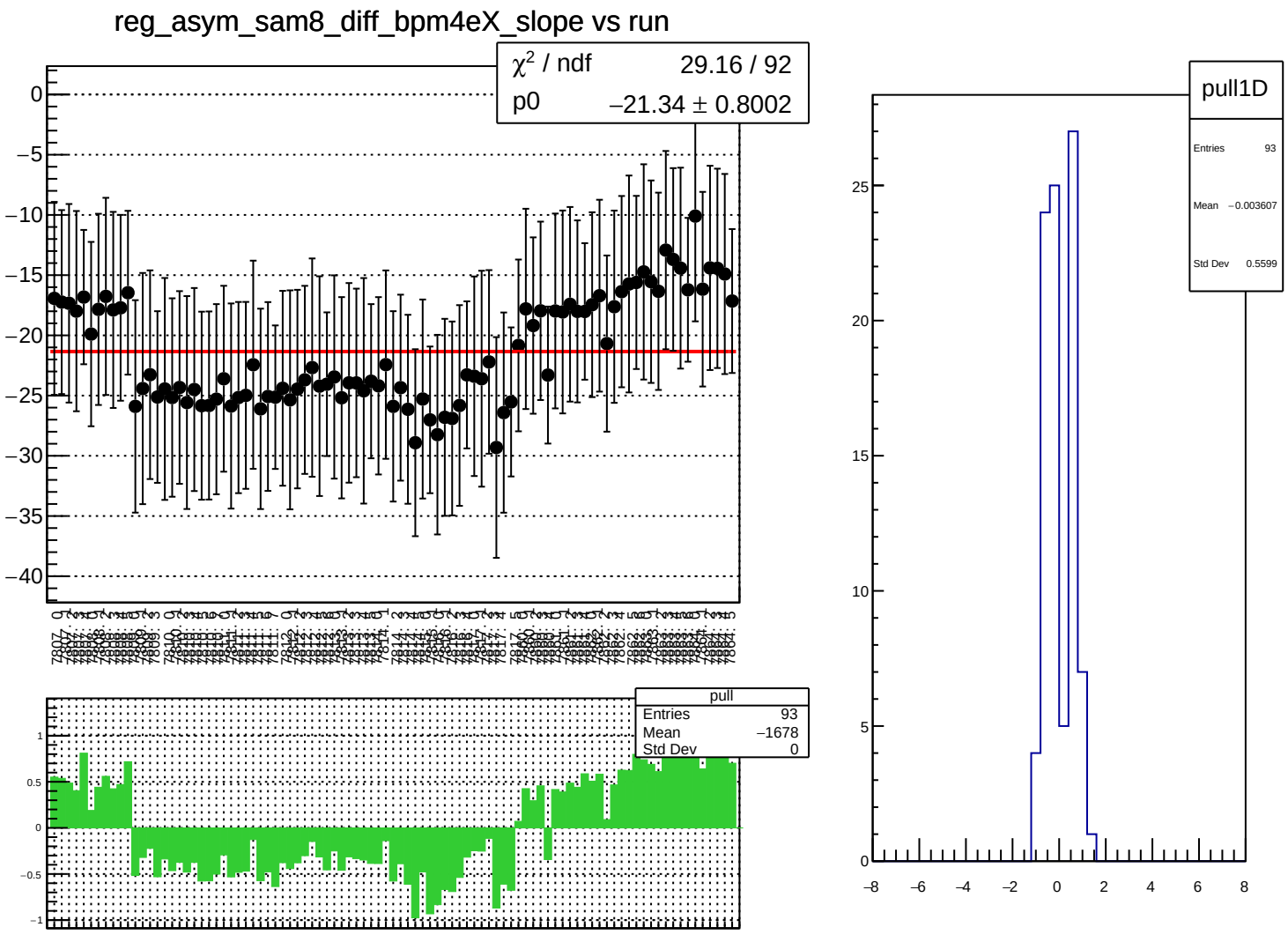

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 4.799 / 92
p0 −23.11± 1.828
pull
Entries 93
Mean 440.8
Std Dev 0

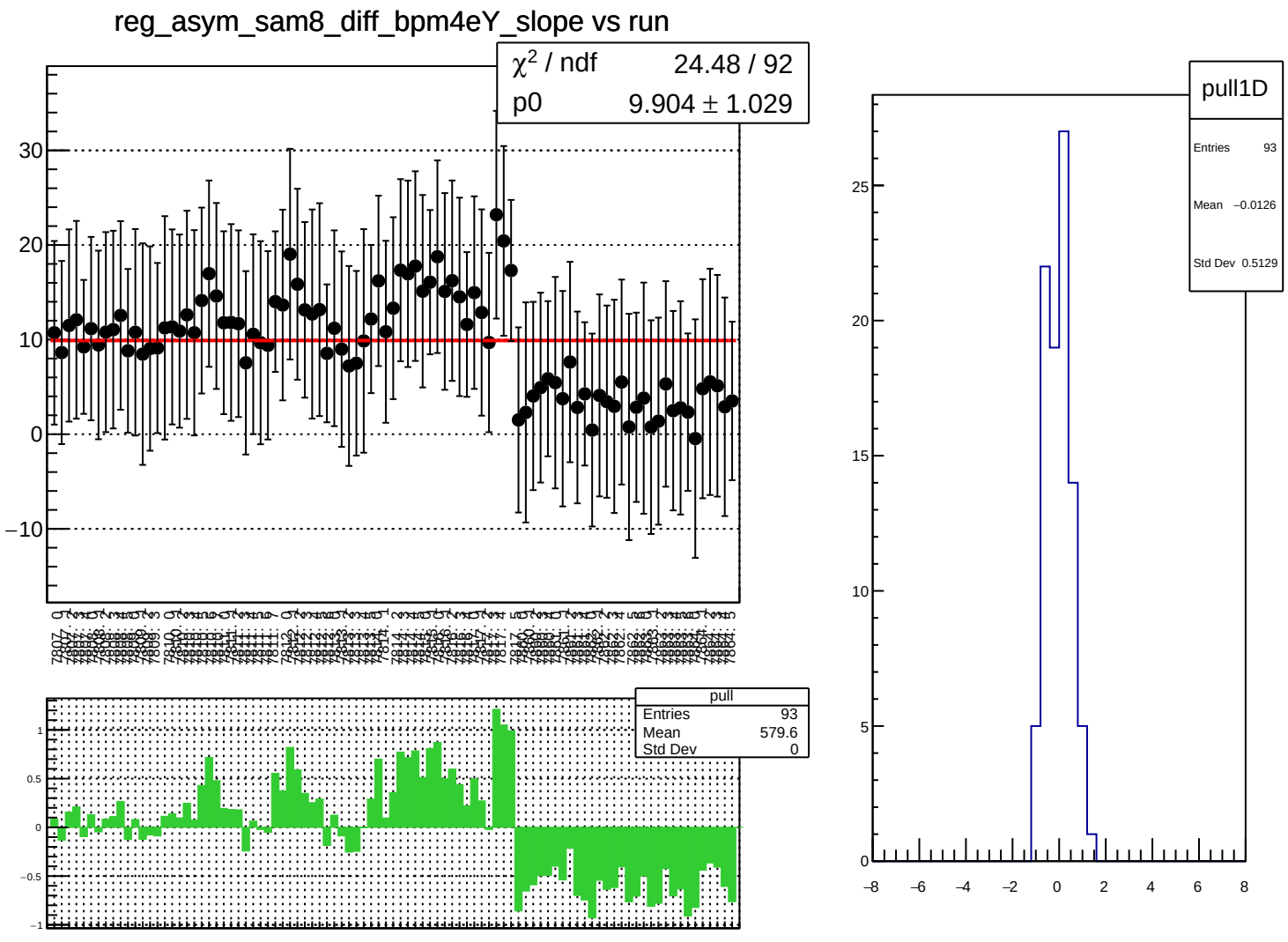

pull1D
Entries 93
Mean 0.008108
Std Dev 0.227

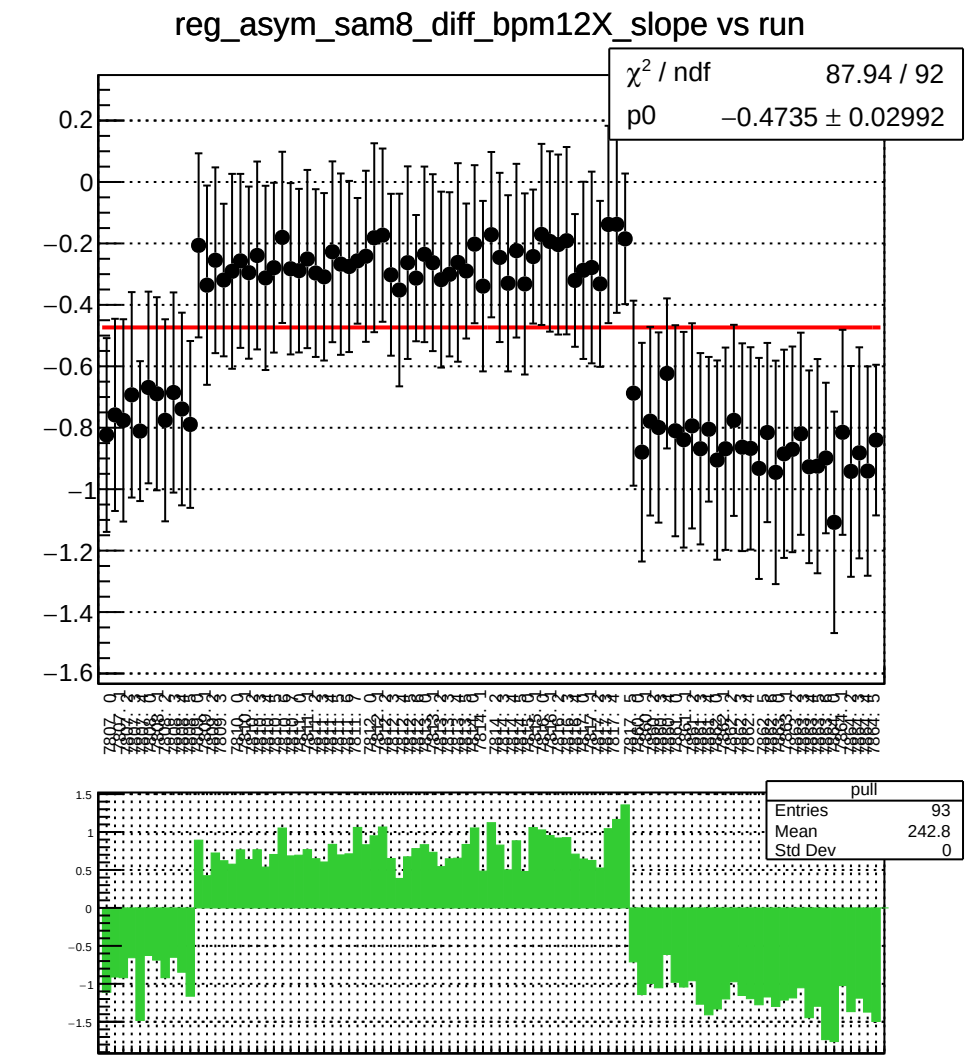

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 34.77 / 92
p0 −0.3362 ± 0.05318
0.5
0
−0.5
−1
−1.5
pull
Entries 93
Mean 210.8
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 93
Mean −0.04195
Std Dev 0.61
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

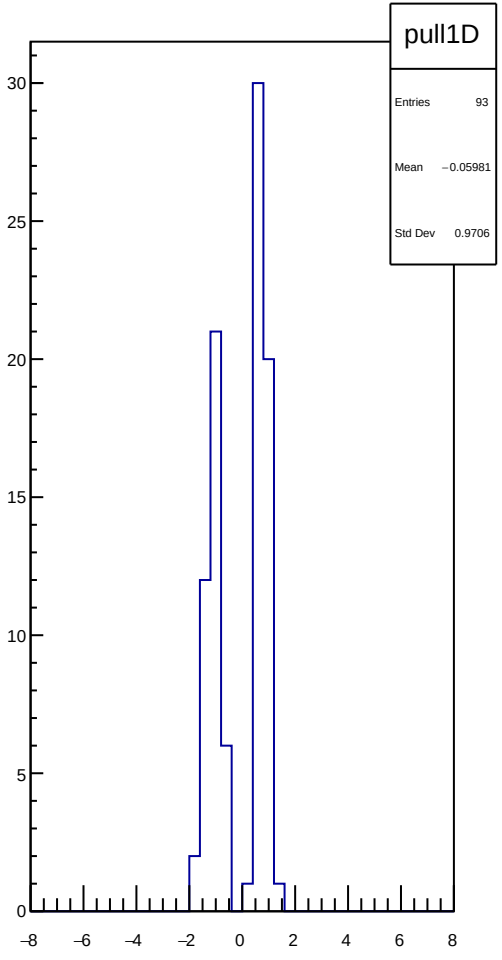

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 34.59 / 92
p0 −1.965 ± 0.8862
pull
Entries 93
Mean 681.9
Std Dev 0
pull1D
Entries 93
Mean −0.01062
Std Dev 0.6098

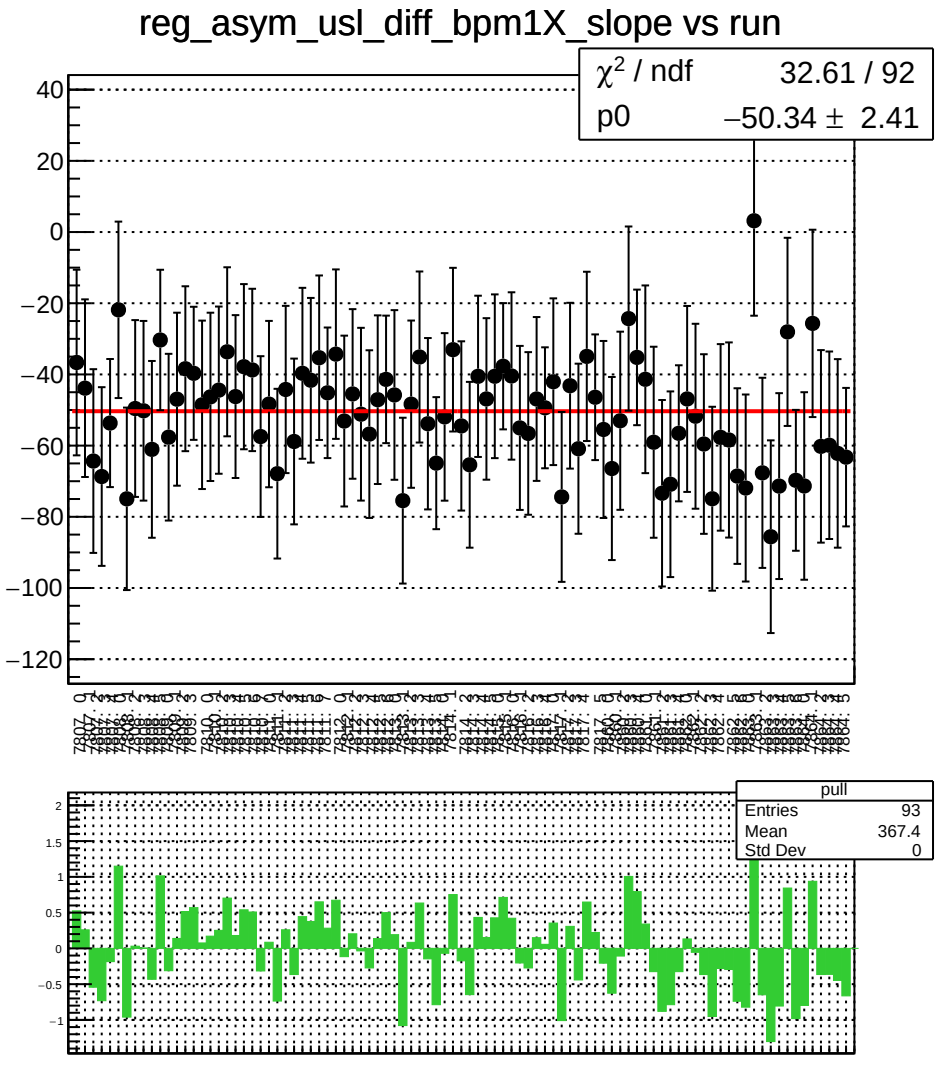

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 25.53 / 92
p0 −16.12 ± 0.902
pull
Entries 93
Mean 590.5
Std Dev 0
pull1D
Entries 93
Mean 0.0111
Std Dev 0.5238

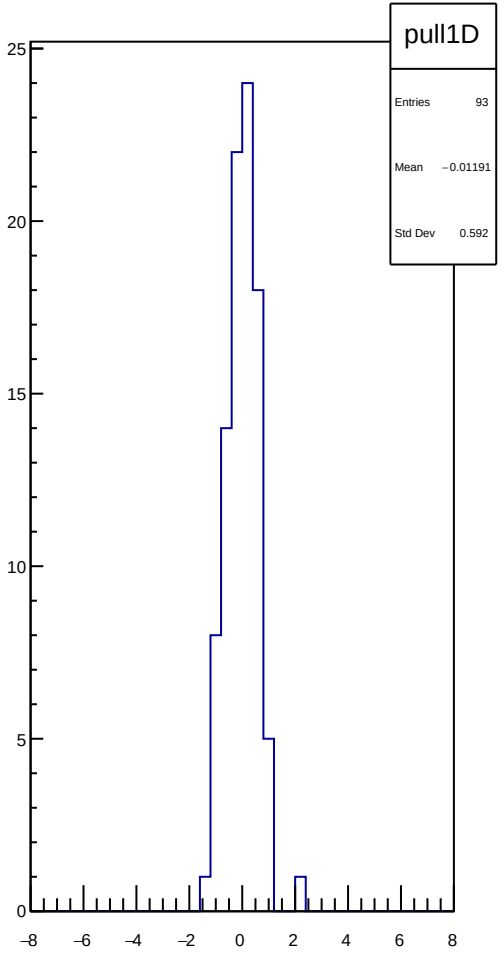

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 29.16 / 92
p0 −21.34 ± 0.8002
pull
Entries 93
Mean −1678
Std Dev 0
pull1D
Entries 93
Mean −0.003607
Std Dev 0.5599

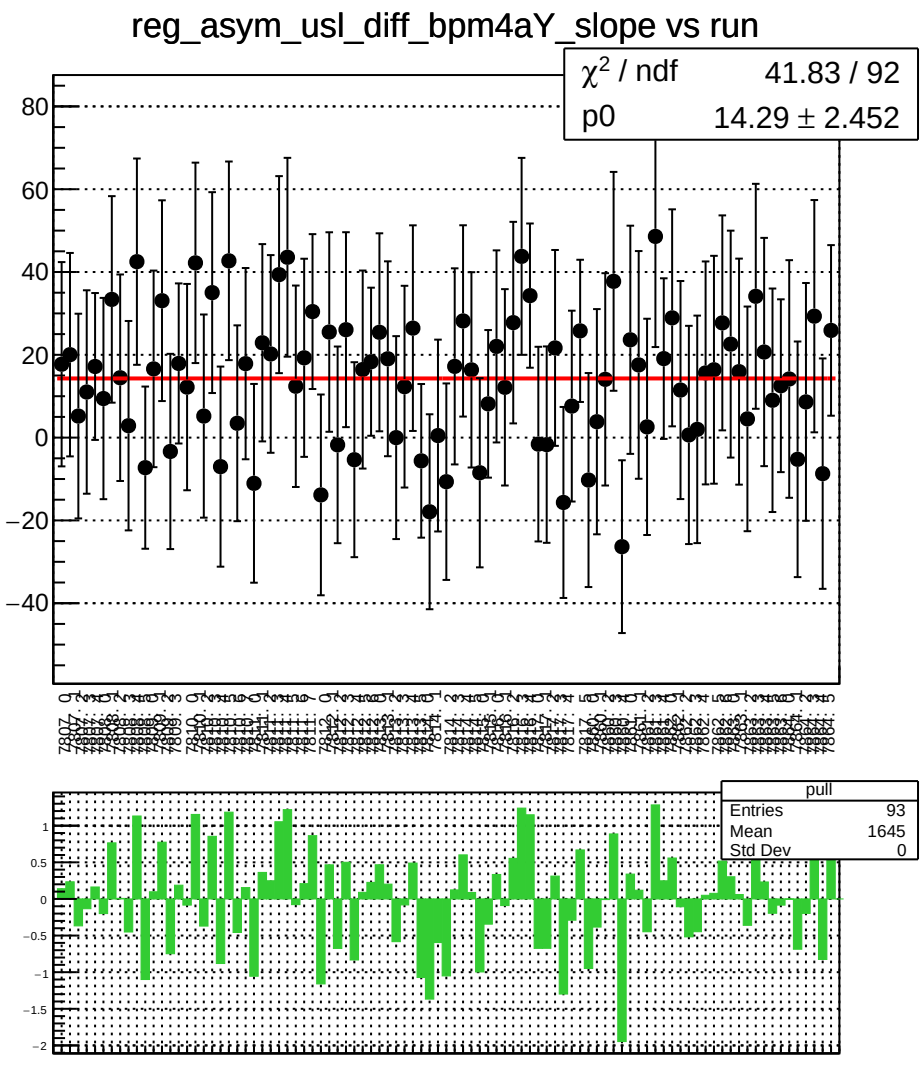

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 24.48 / 92
p0 9.904 ± 1.029
30
20
10
0
−10
pull
Entries 93
Mean 579.6
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 93
Mean −0.0126
Std Dev 0.5129
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

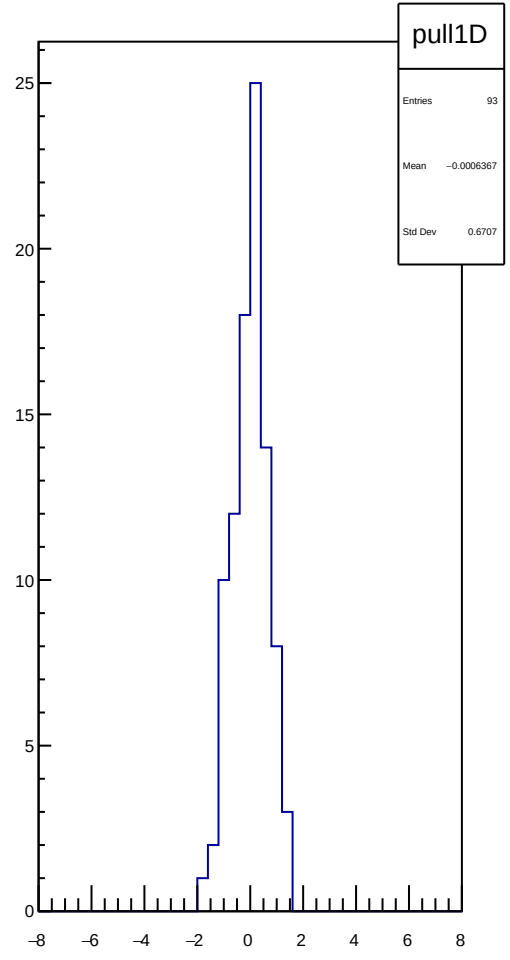

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 87.94 / 92
p0 −0.4735 ± 0.02992
pull
Entries 93
Mean 242.8
Std Dev 0

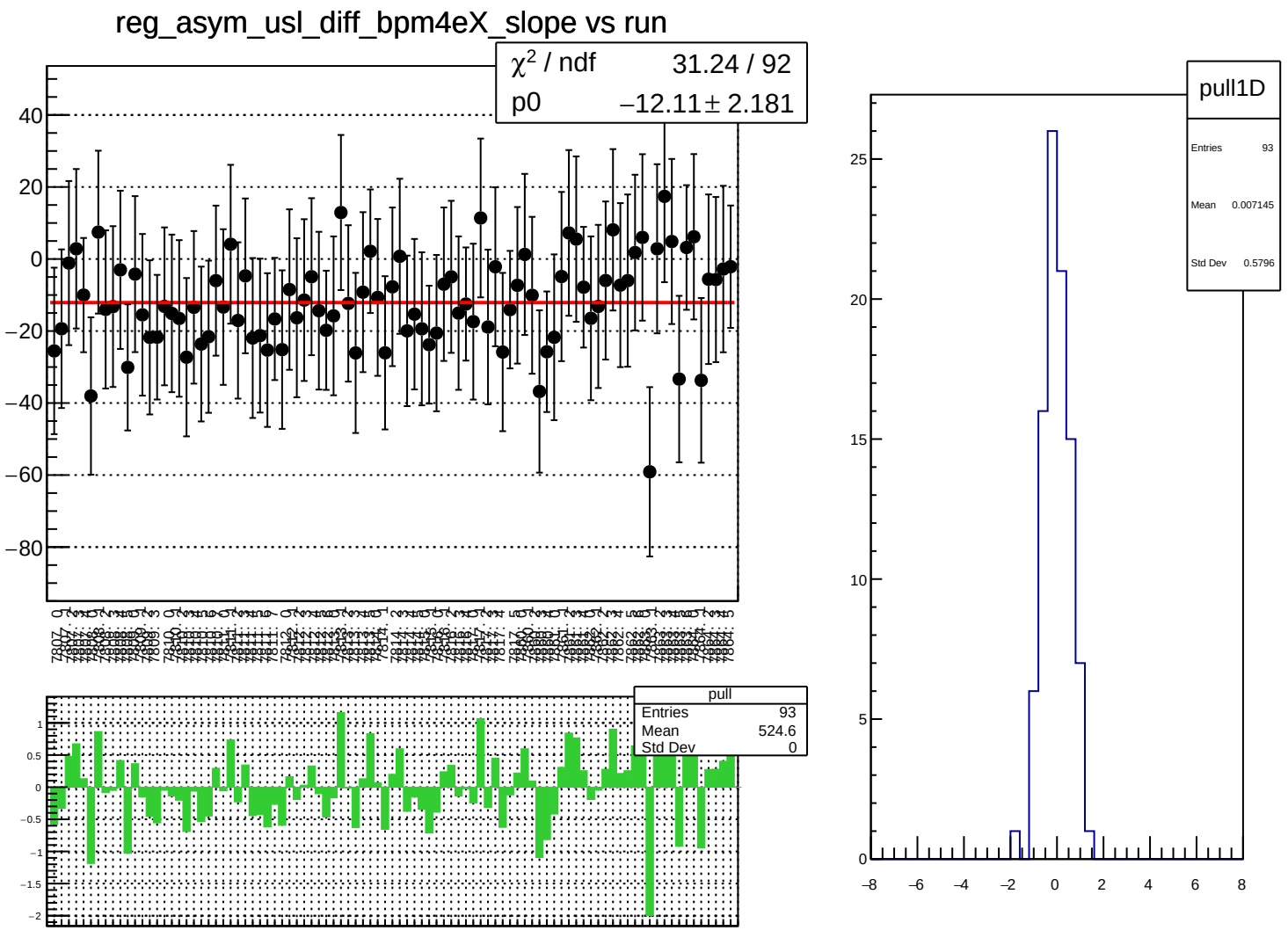

pull1D
Entries 93
Mean −0.05981
Std Dev 0.9706

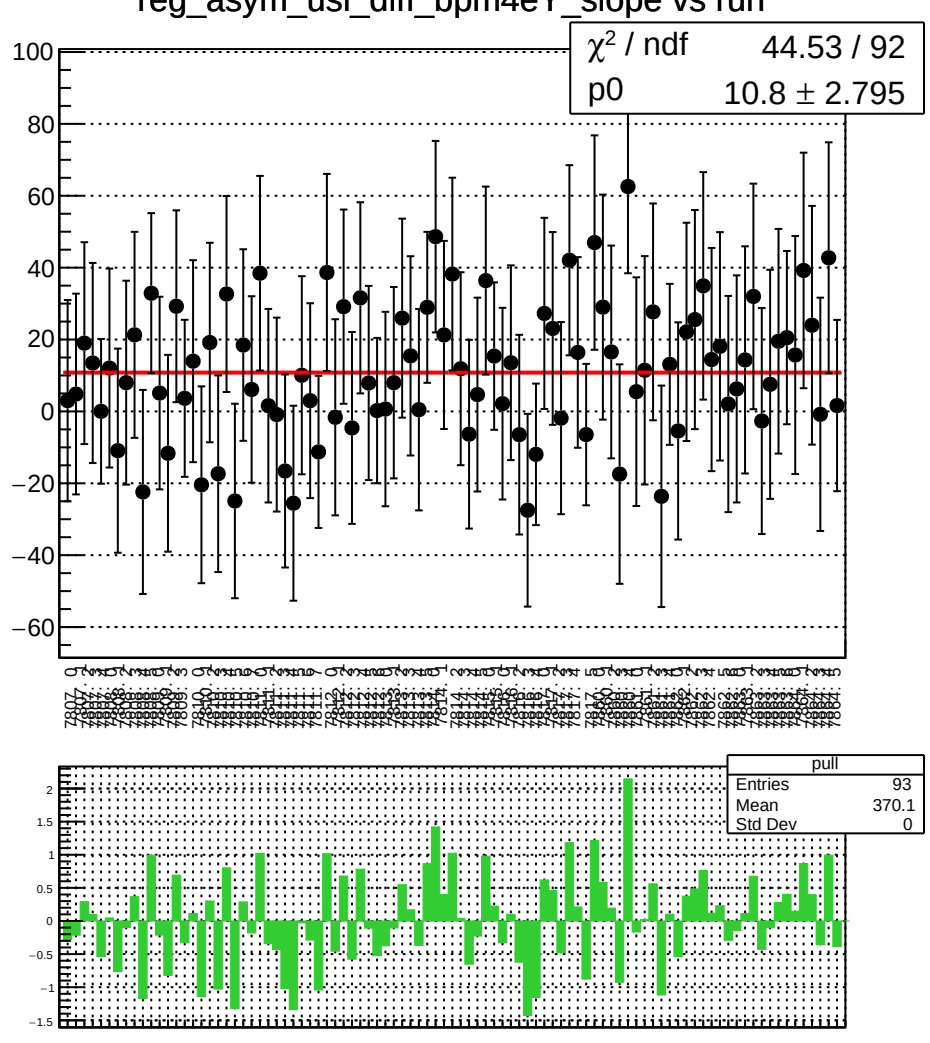

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 32.61 / 92
p0 −50.34 ± 2.41
pull
Entries 93
Mean 367.4
Std Dev 0

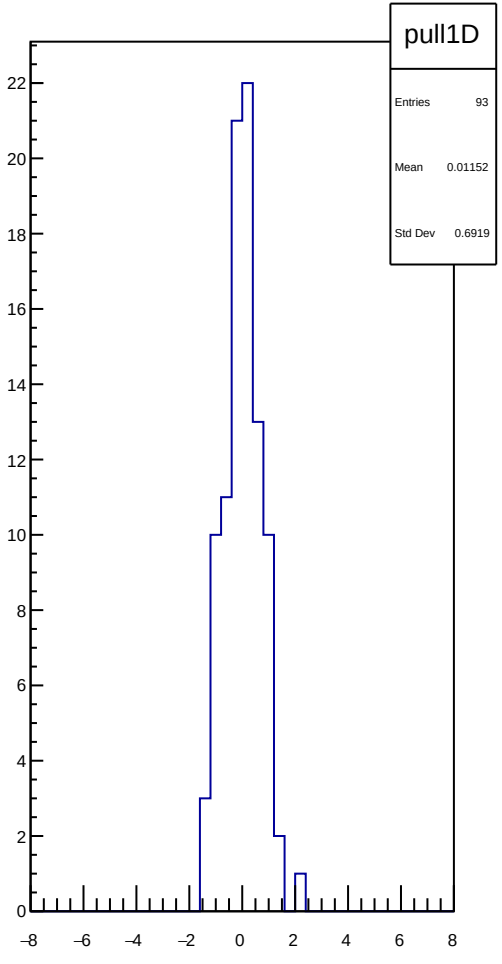

pull1D
Entries 93
Mean −0.01191
Std Dev 0.592

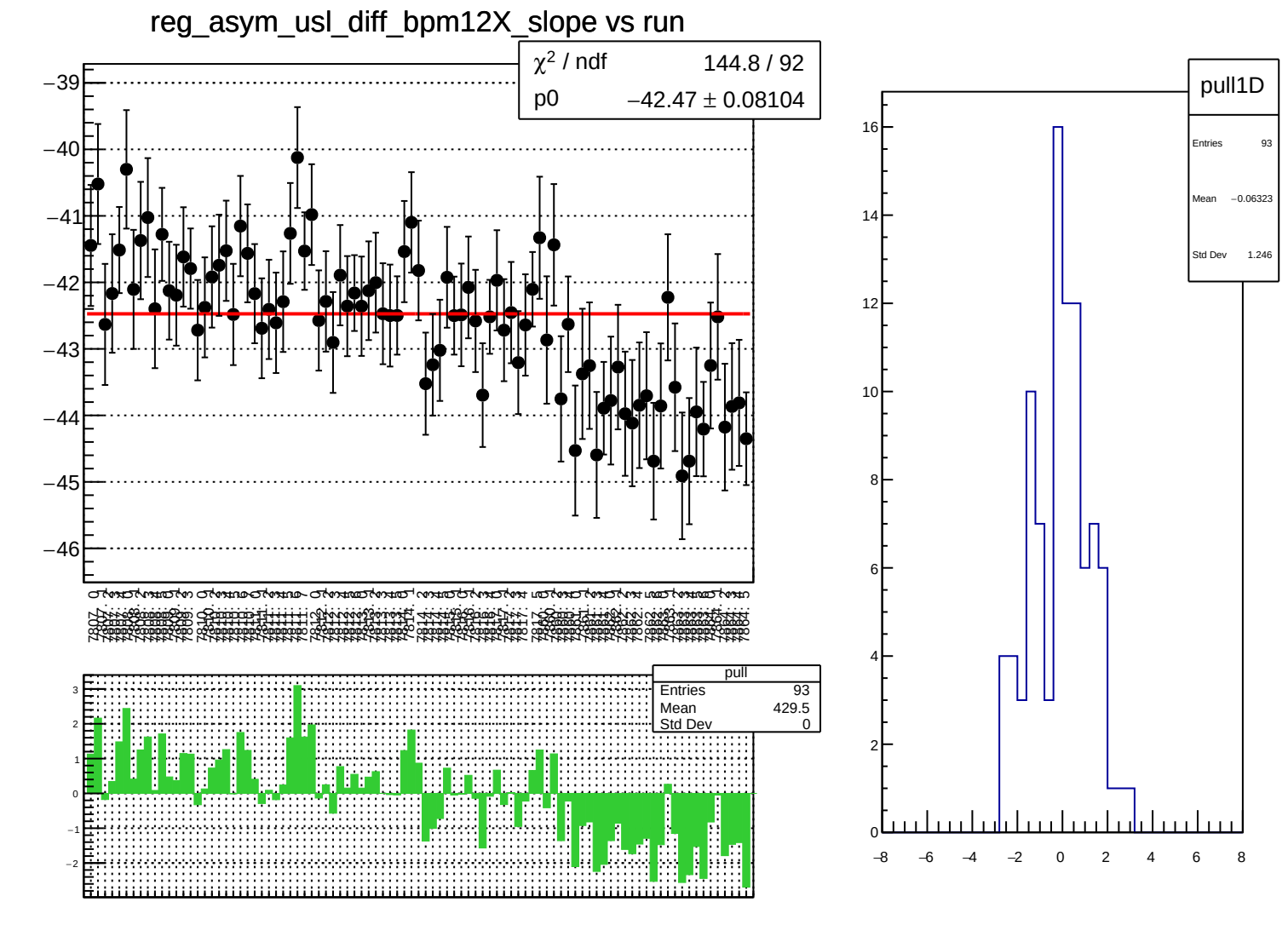

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 41.83 / 92
p0 14.29 ± 2.452
pull
Entries 93
Mean 1645
Std Dev 0

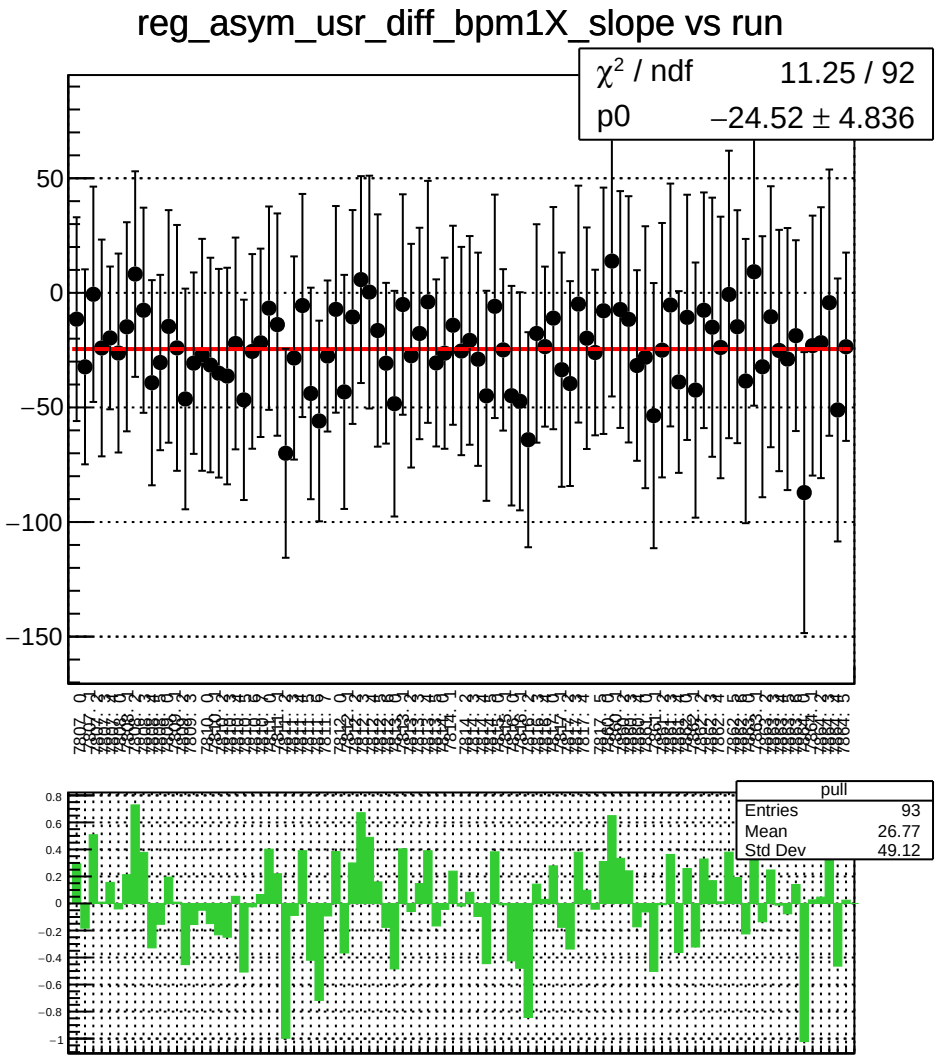

pull1D
Entries 93
Mean −0.0006367
Std Dev 0.6707

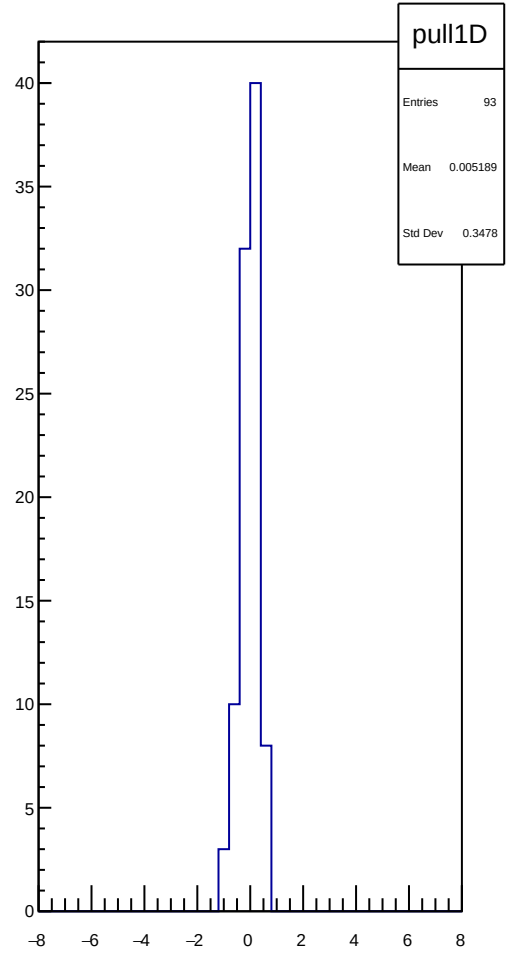

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 31.24 / 92
p0 −12.11 ± 2.181
pull
Entries 93
Mean 524.6
Std Dev 0
pull1D
Entries 93
Mean 0.007145
Std Dev 0.5796

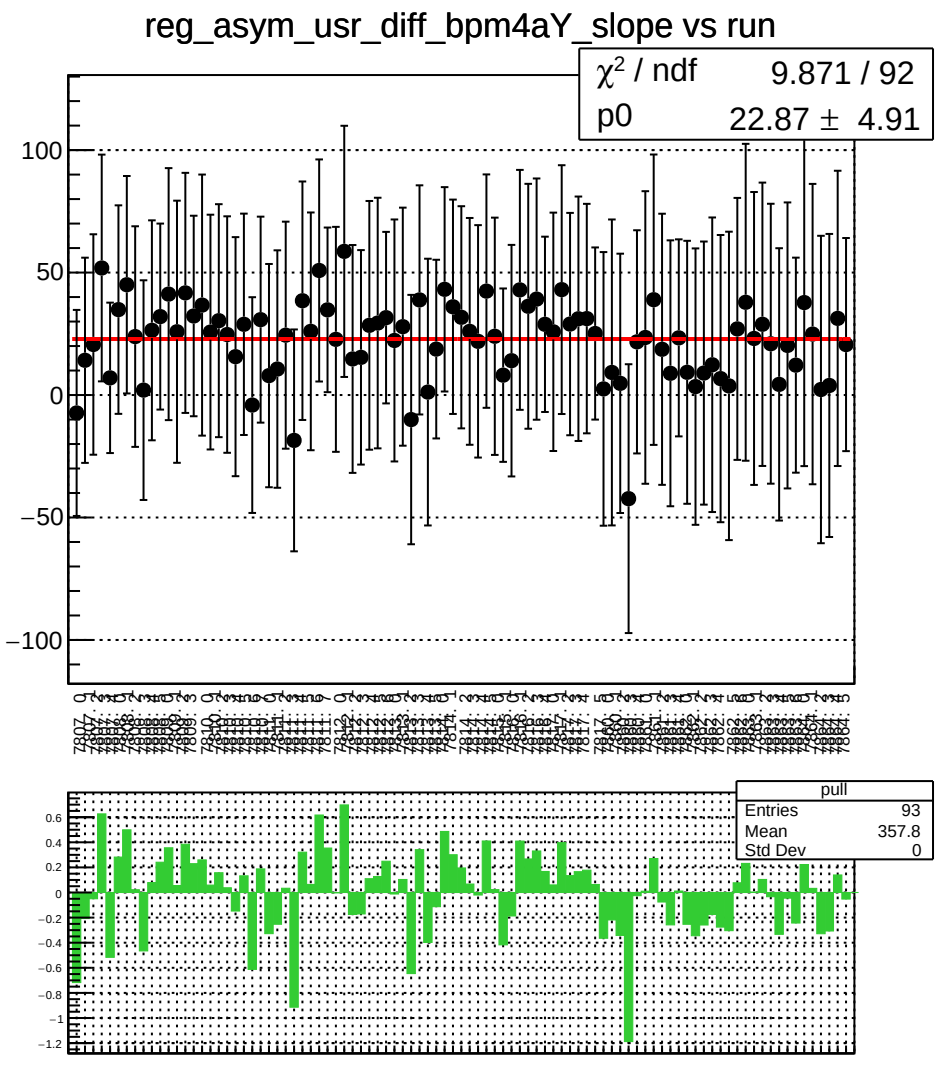

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 44.53 / 92
p0 10.8 ± 2.795
pull
Entries 93
Mean 370.1
Std Dev 0

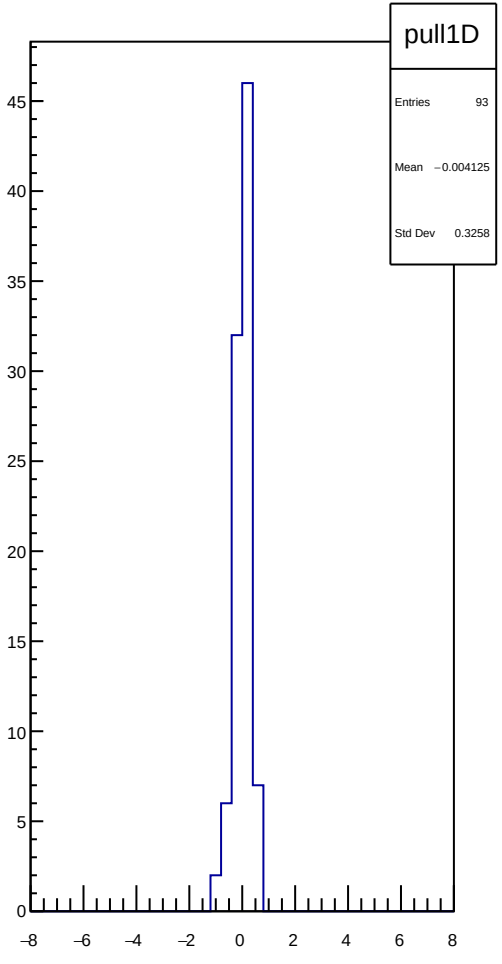

pull1D
Entries 93
Mean 0.01152
Std Dev 0.6919

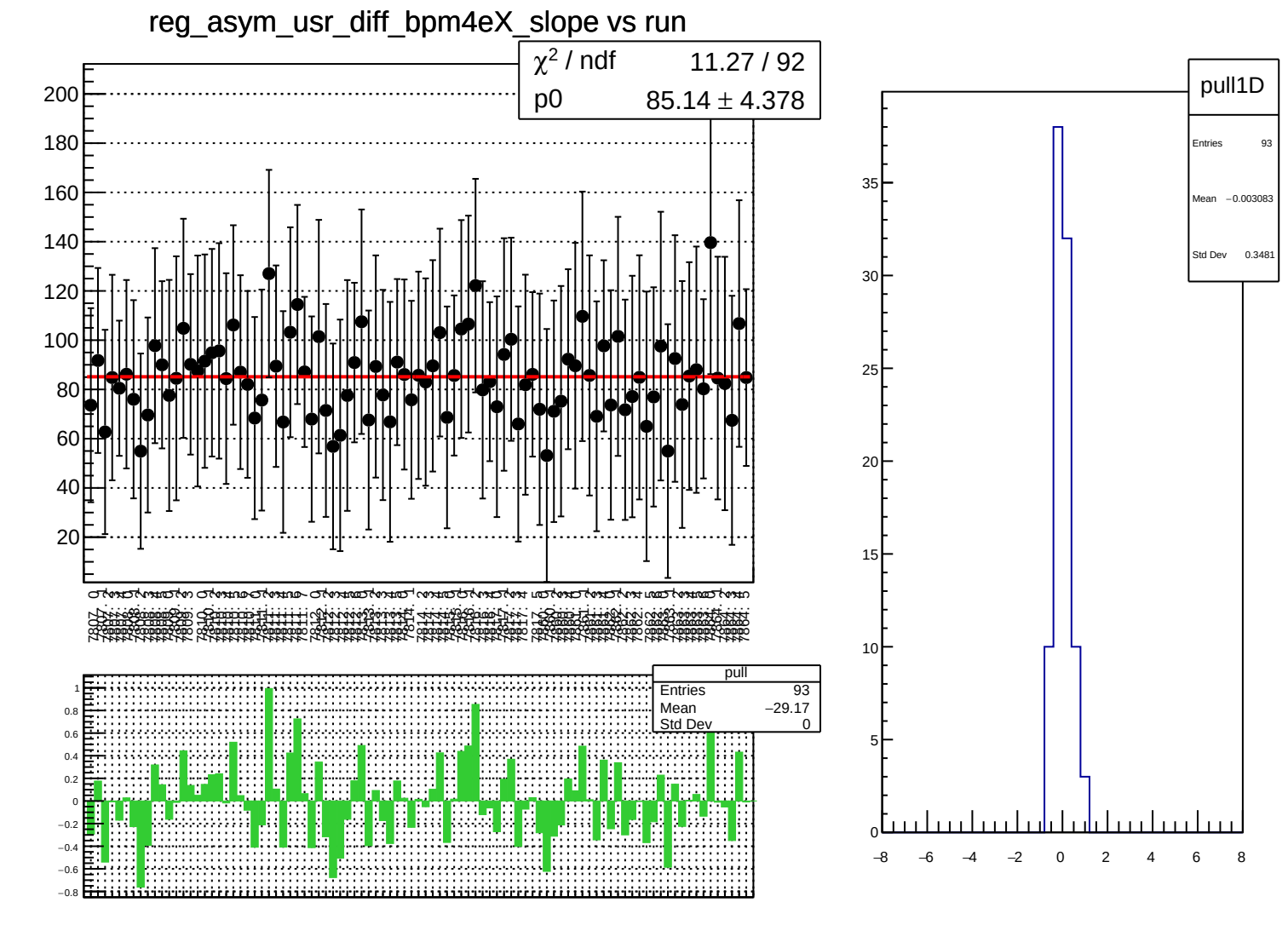

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 144.8 / 92
p0 −42.47 ± 0.08104
pull
Entries 93
Mean 429.5
Std Dev 0
pull1D
Entries 93
Mean −0.06323
Std Dev 1.246

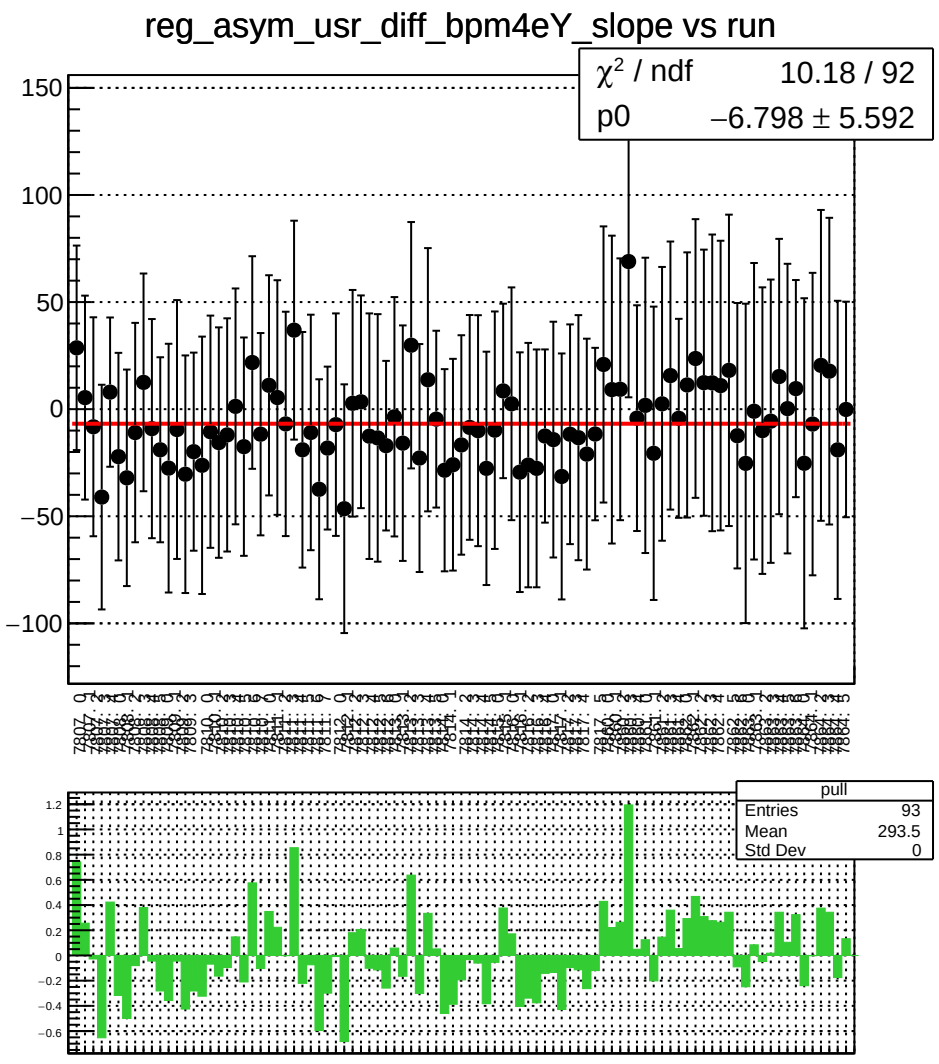

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 11.25 / 92
p0 −24.52 ± 4.836
50
0
−50
−100
−150
pull
Entries 93
Mean 26.77
Std Dev 49.12
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

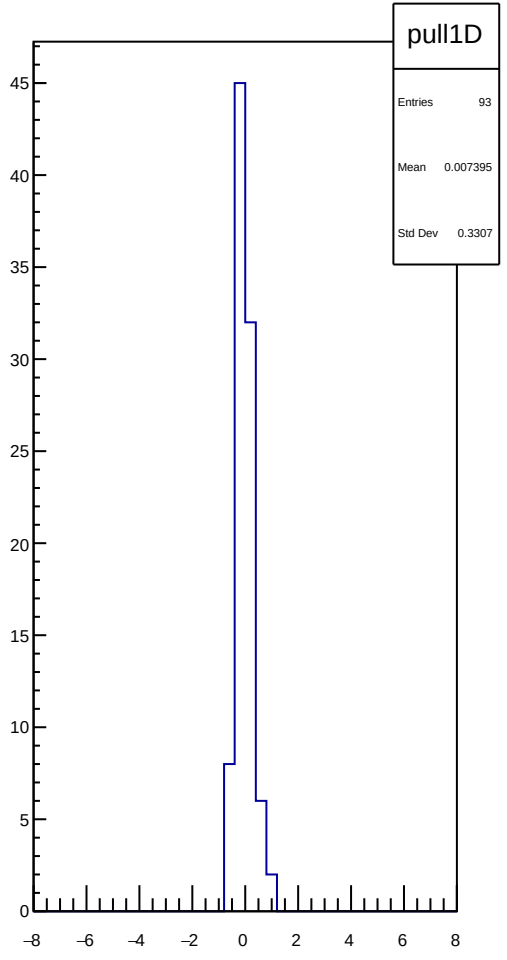

pull1D
Entries 93
Mean 0.005189
Std Dev 0.3478
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

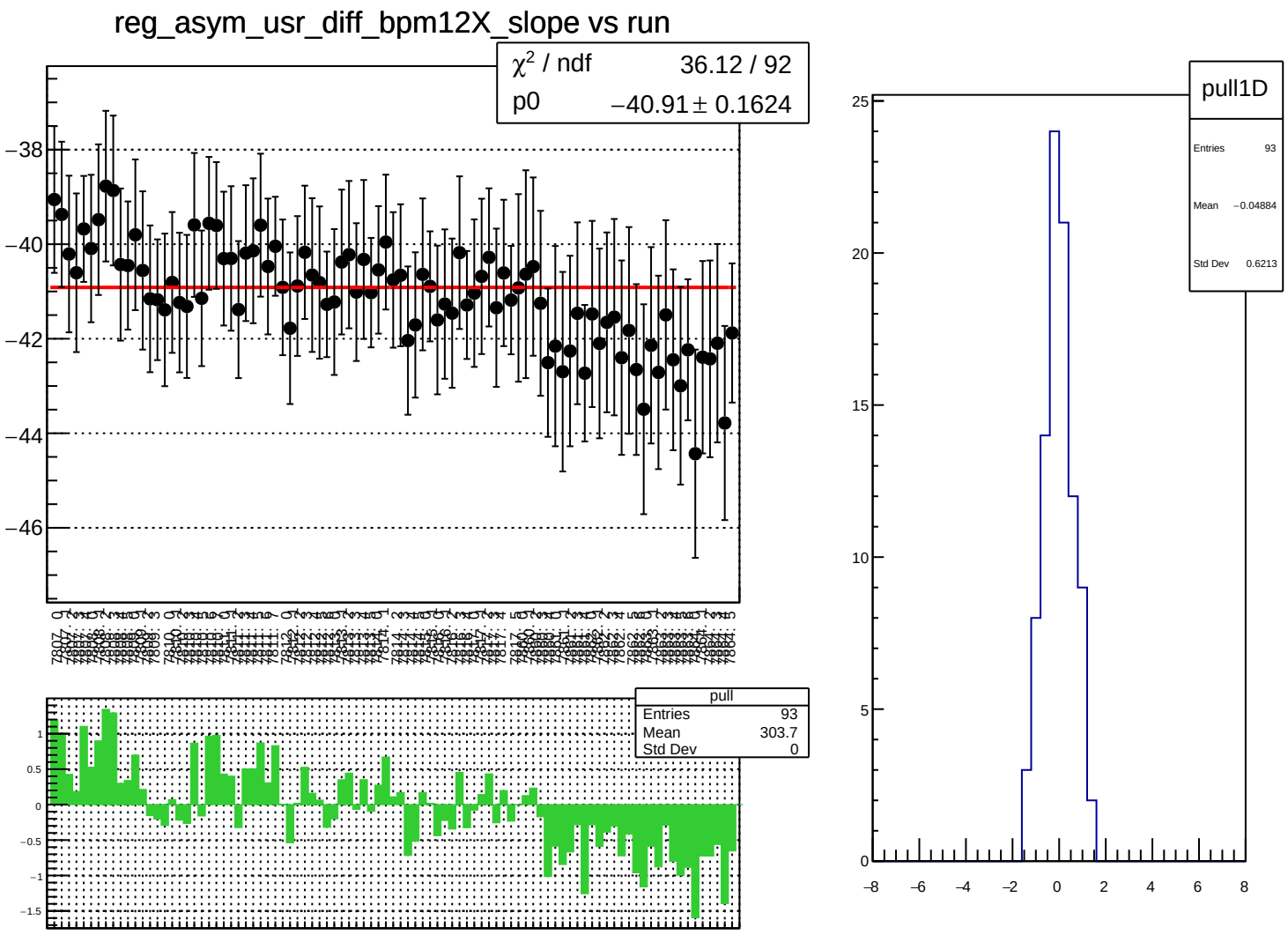

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 9.871 / 92
p0 22.87 ± 4.91
pull
Entries 93
Mean 357.8
Std Dev 0

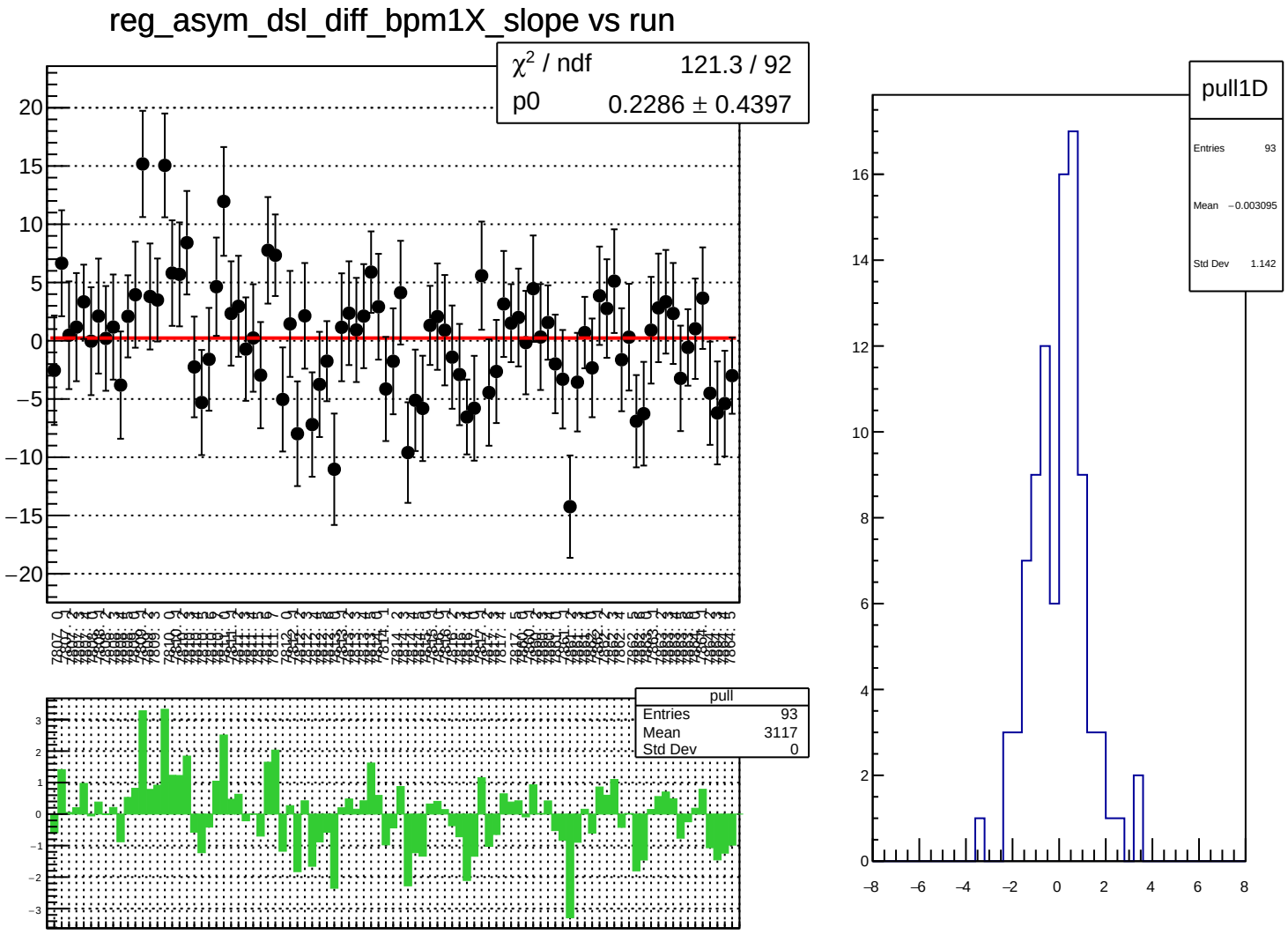

pull1D
Entries 93
Mean −0.004125
Std Dev 0.3258

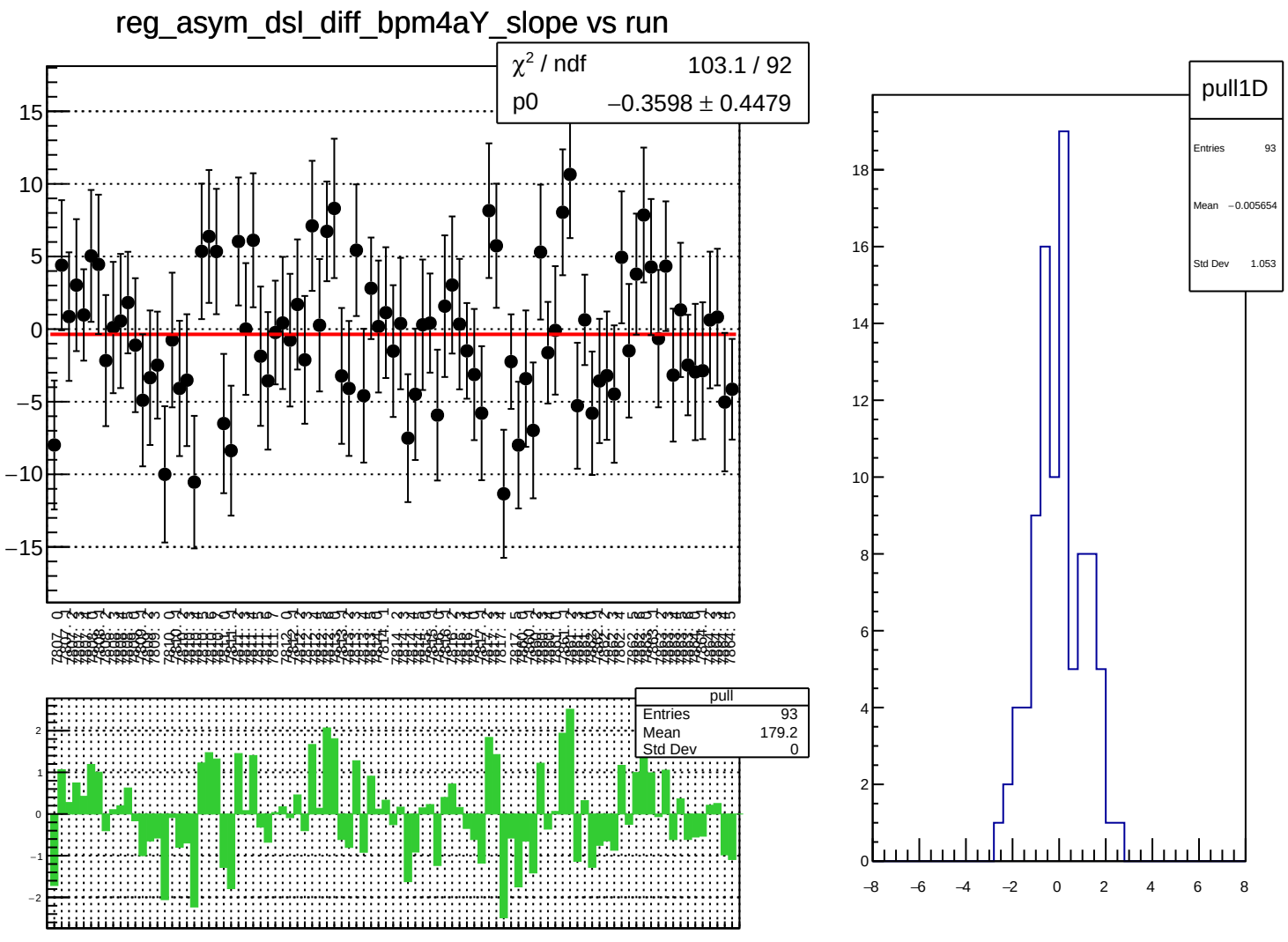

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 11.27 / 92
p0 85.14 ± 4.378
pull
Entries 93
Mean −29.17
Std Dev 0
pull1D
Entries 93
Mean −0.003083
Std Dev 0.3481

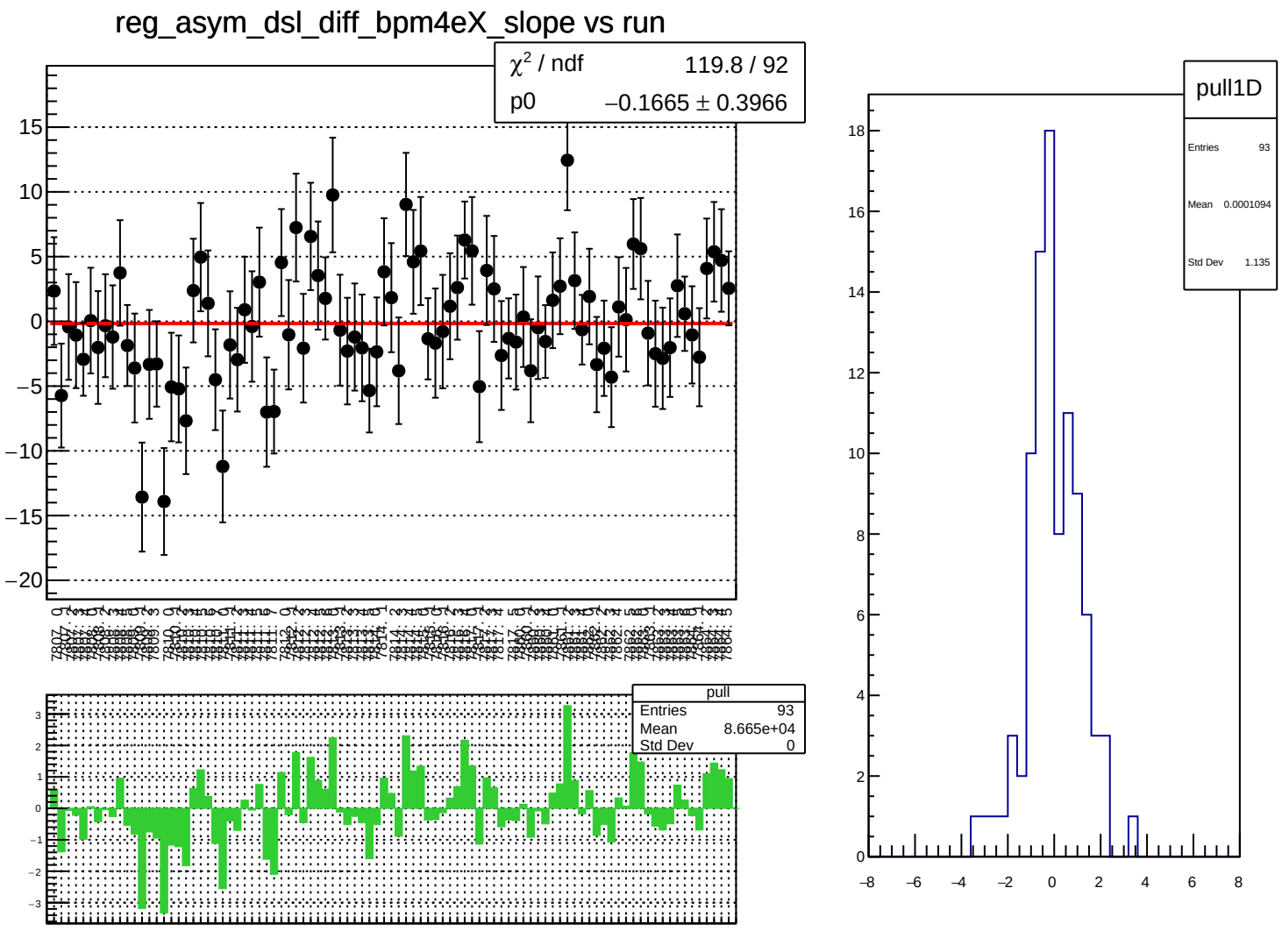

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 10.18 / 92
p0 −6.798 ± 5.592
150
100
50
0
−50
−100
pull
Entries 93
Mean 293.5
Std Dev 0
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

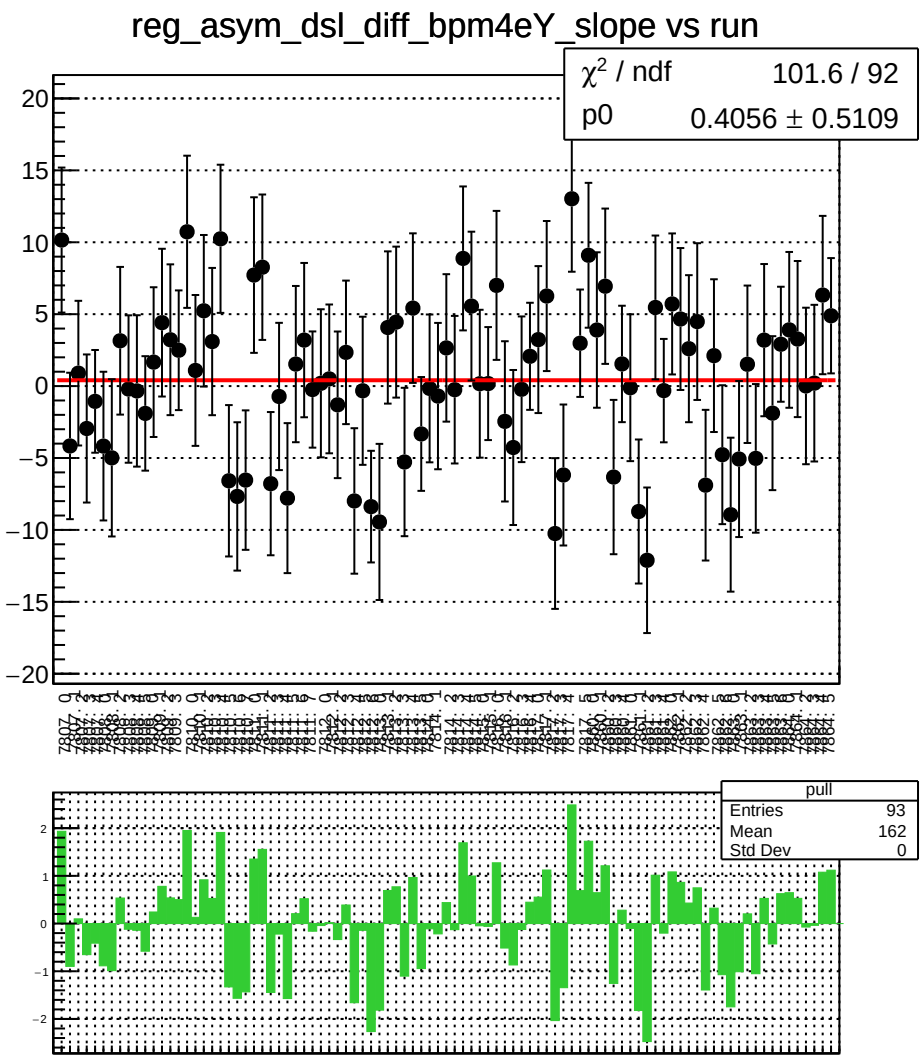

pull1D
Entries 93
Mean 0.007395
Std Dev 0.3307
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

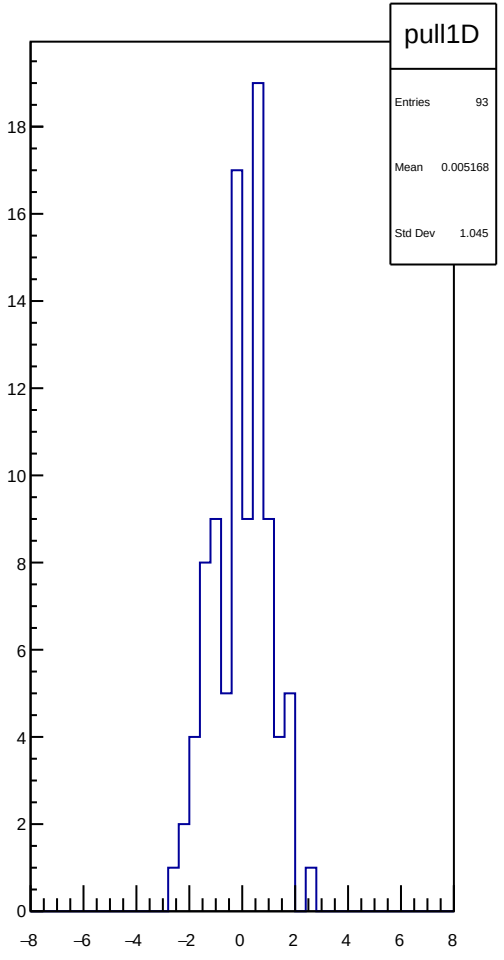

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 36.12 / 92
p0 −40.91 ± 0.1624
−38
−40
−42
−44
−46
pull
Entries 93
Mean 303.7
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 93
Mean −0.04884
Std Dev 0.6213
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

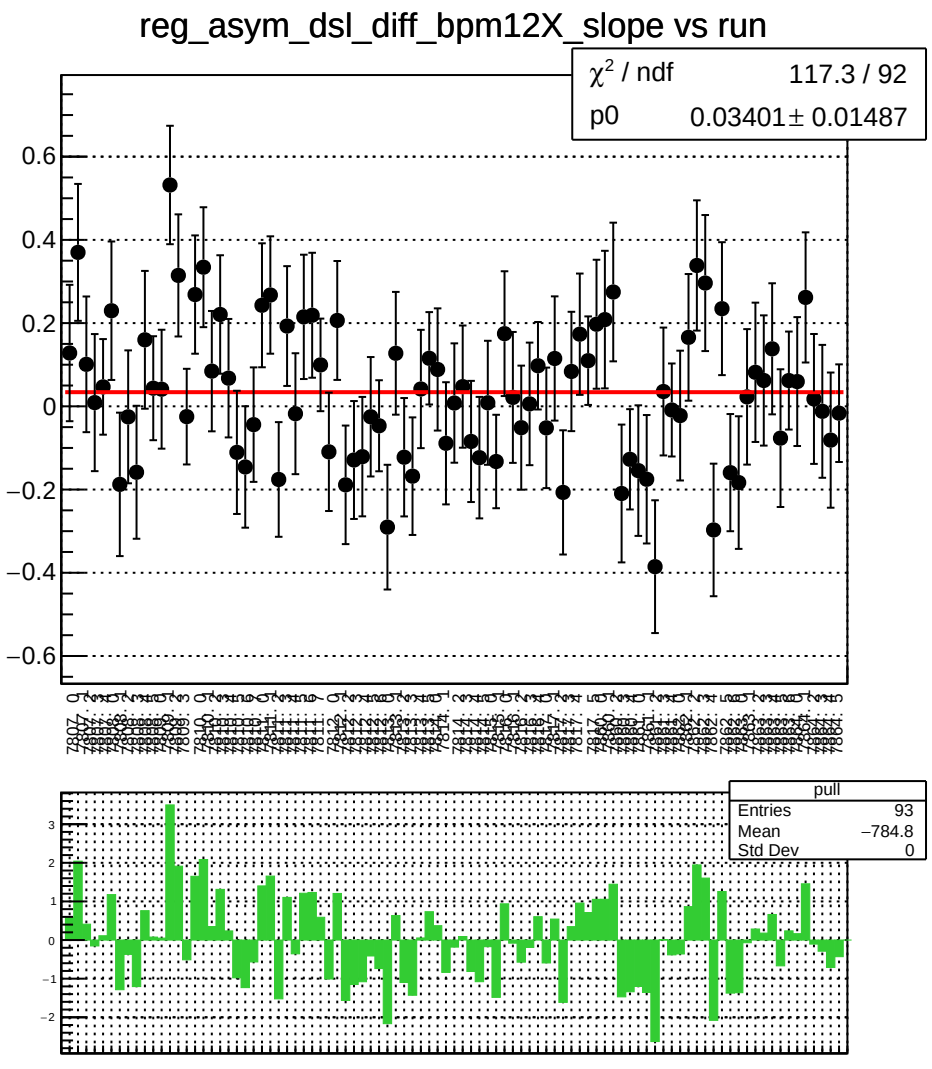

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 121.3 / 92
p0 0.2286 ± 0.4397
pull
Entries 93
Mean 3117
Std Dev 0
pull1D
Entries 93
Mean −0.003095
Std Dev 1.142

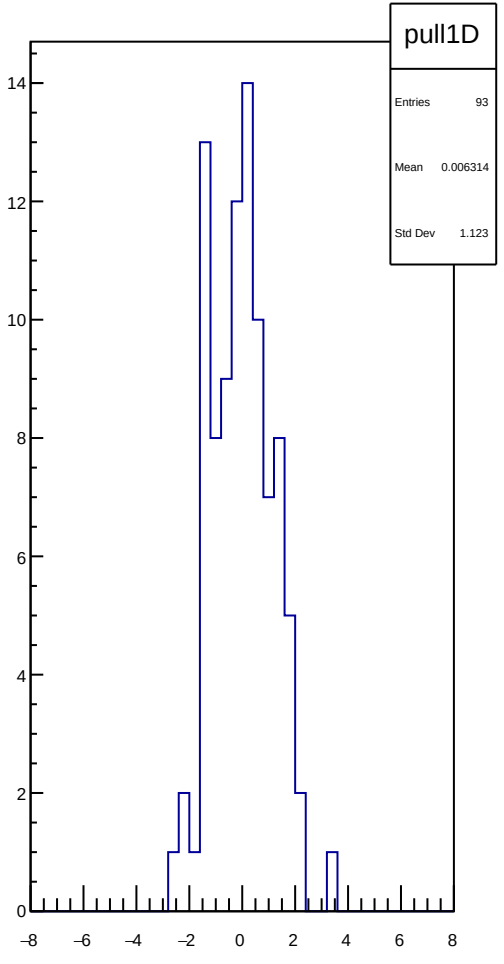

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 103.1 / 92
p0 −0.3598 ± 0.4479
pull
Entries 93
Mean 179.2
Std Dev 0
pull1D
Entries 93
Mean −0.005654
Std Dev 1.053

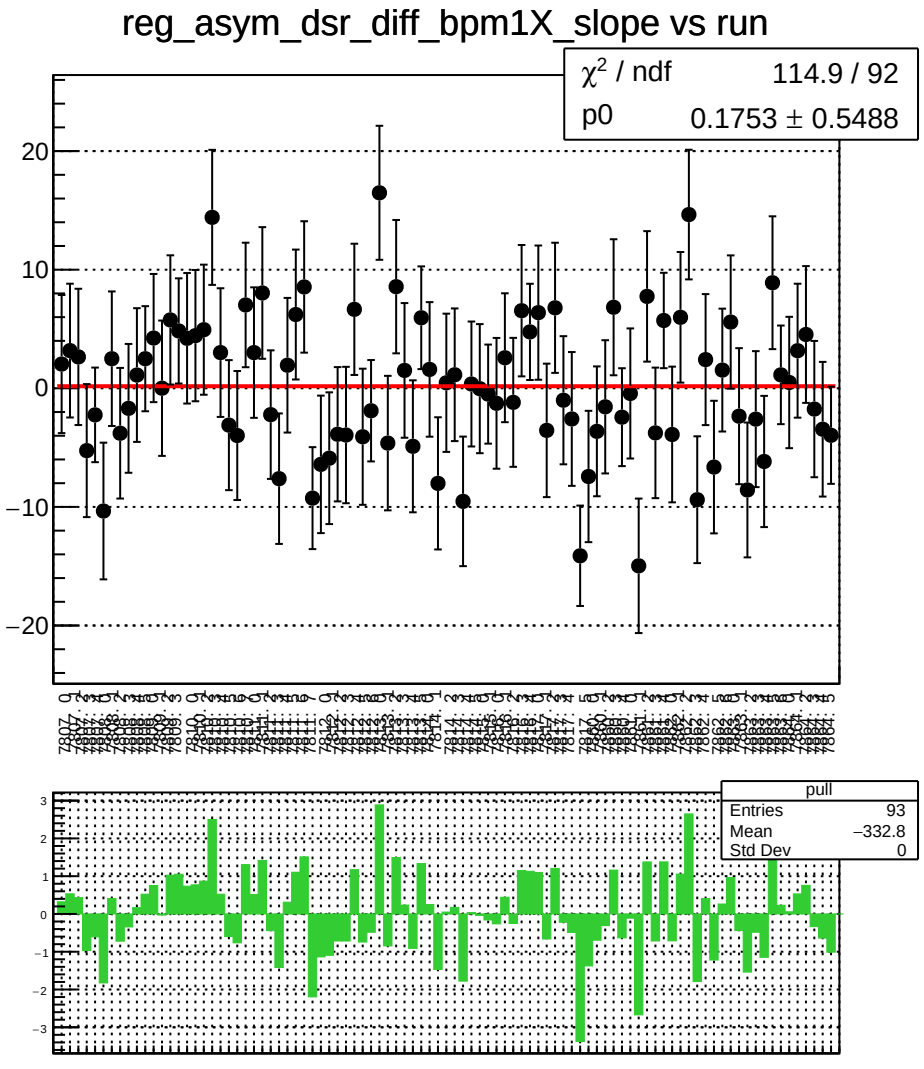

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 119.8 / 92
p0 −0.1665 ± 0.3966
pull
Entries 93
Mean 8.665e+04
Std Dev 0
pull1D
Entries 93
Mean 0.0001094
Std Dev 1.135

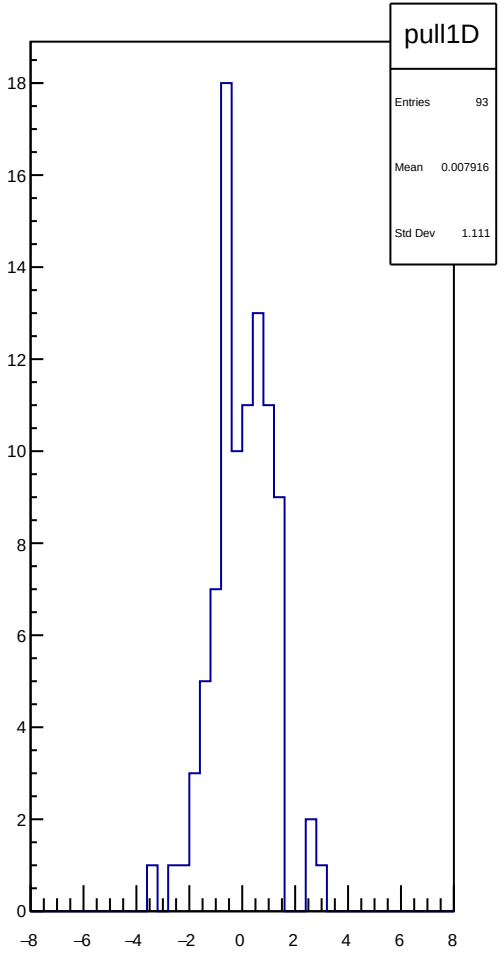

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 101.6 / 92
p0 0.4056 ± 0.5109
pull
Entries 93
Mean 162
Std Dev 0

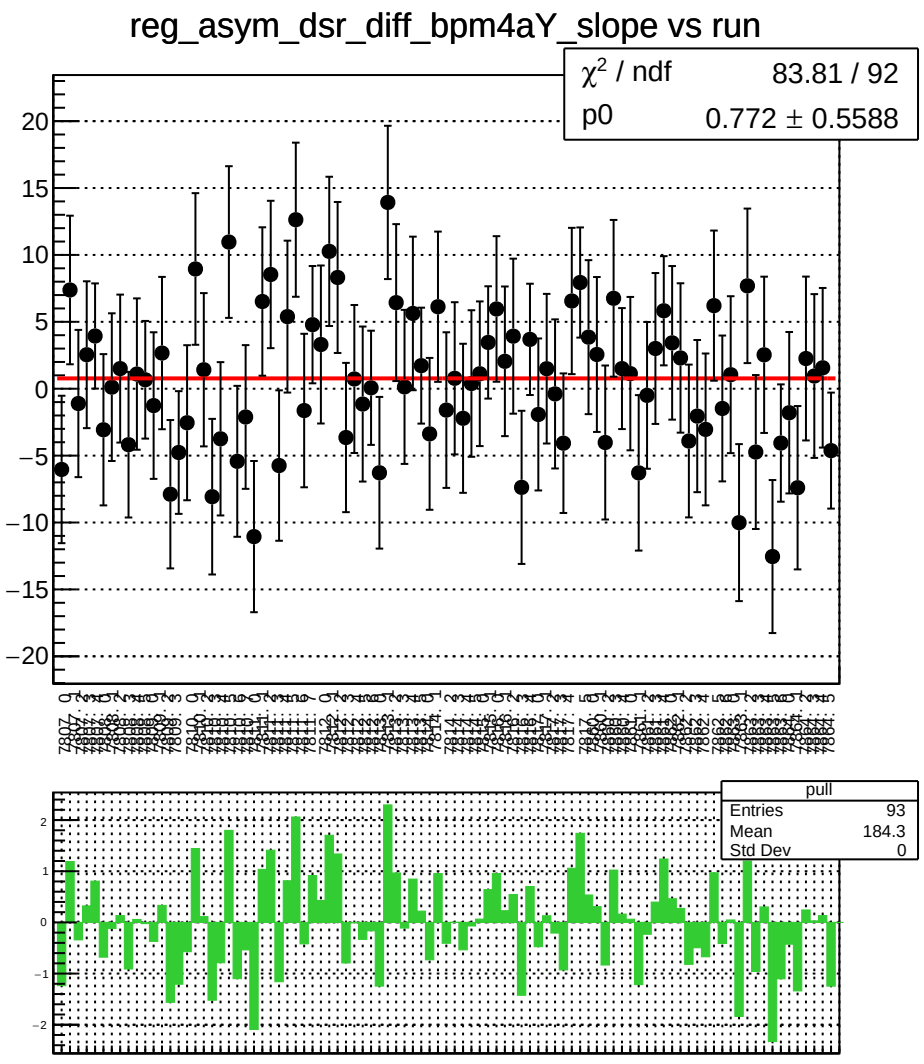

pull1D
Entries 93
Mean 0.005168
Std Dev 1.045

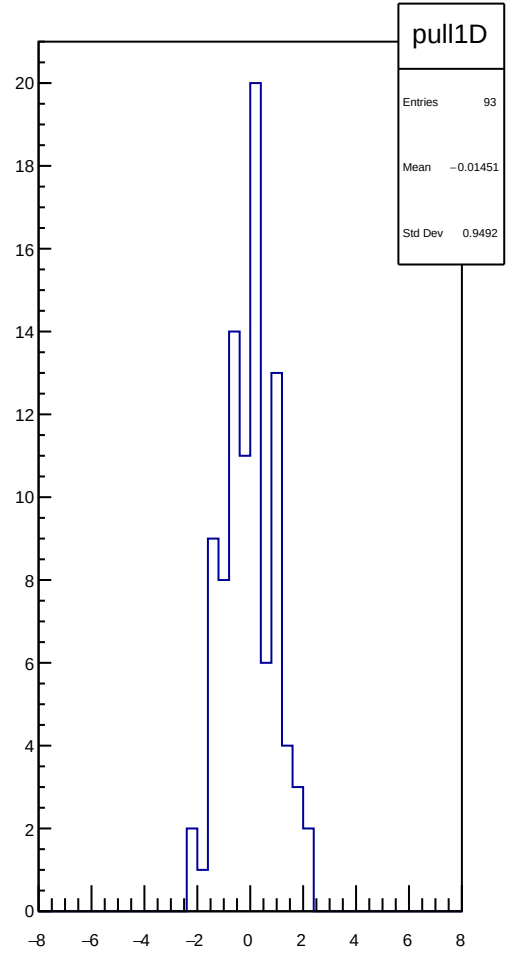

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 117.3 / 92
p0 0.03401 ± 0.01487
pull
Entries 93
Mean −784.8
Std Dev 0

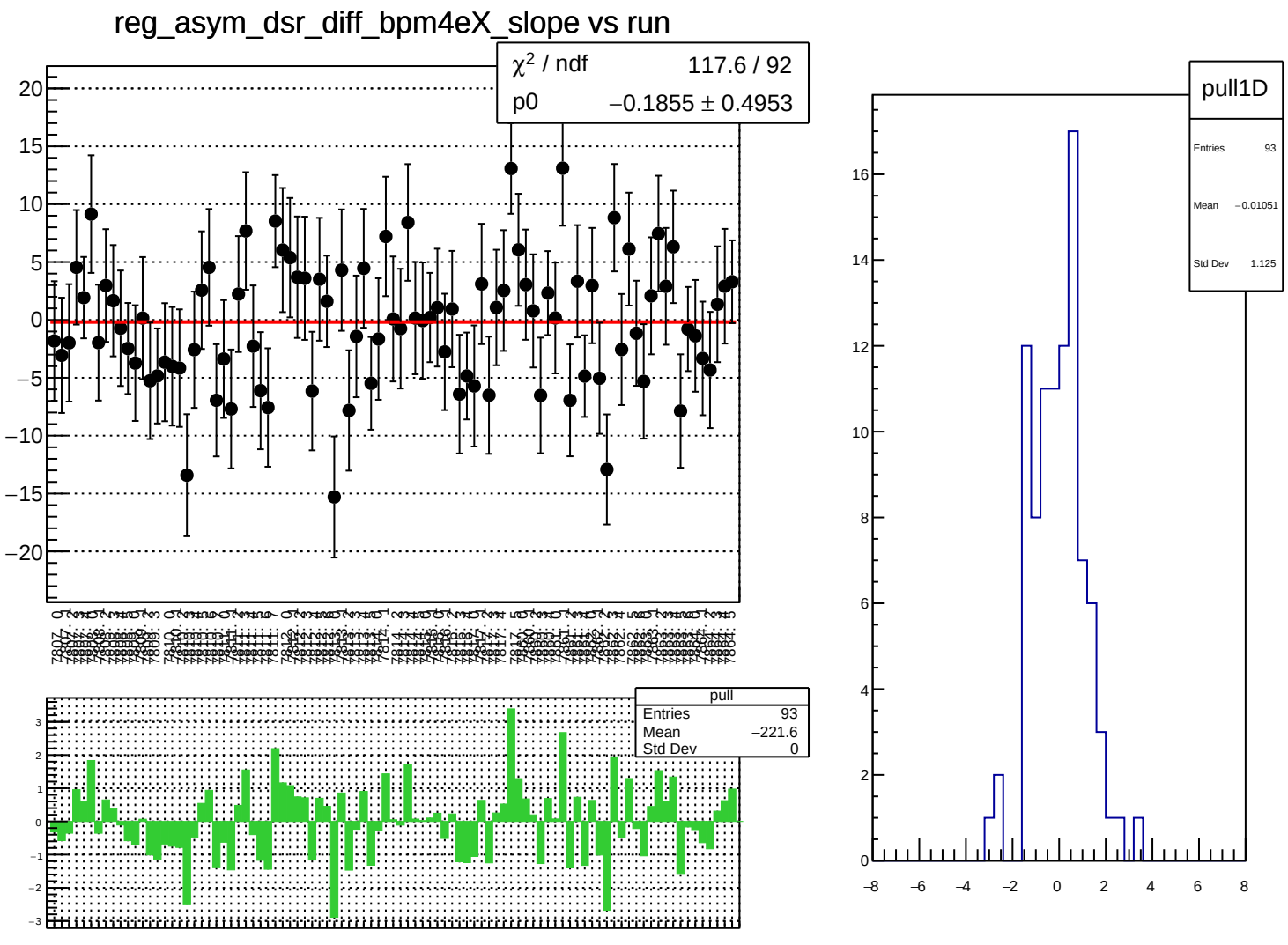

pull1D
Entries 93
Mean 0.006314
Std Dev 1.123

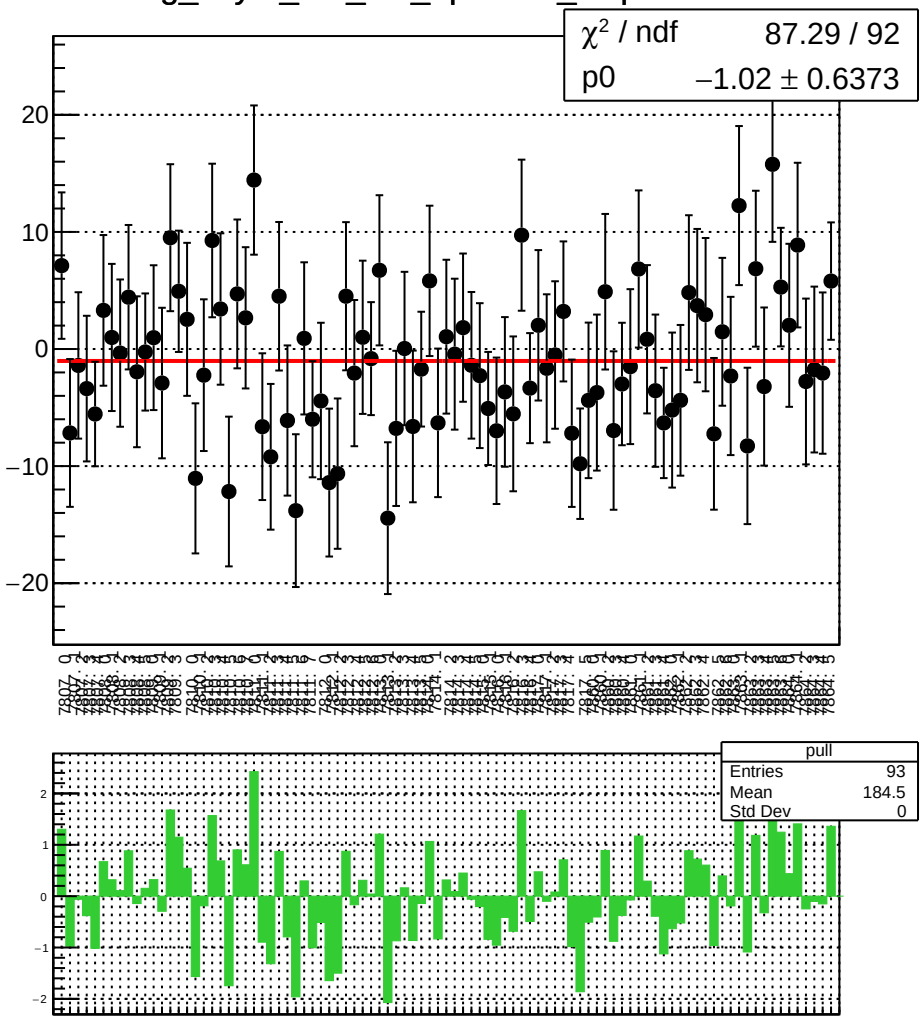

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 114.9 / 92
p0 0.1753 ± 0.5488
pull
Entries 93
Mean −332.8
Std Dev 0

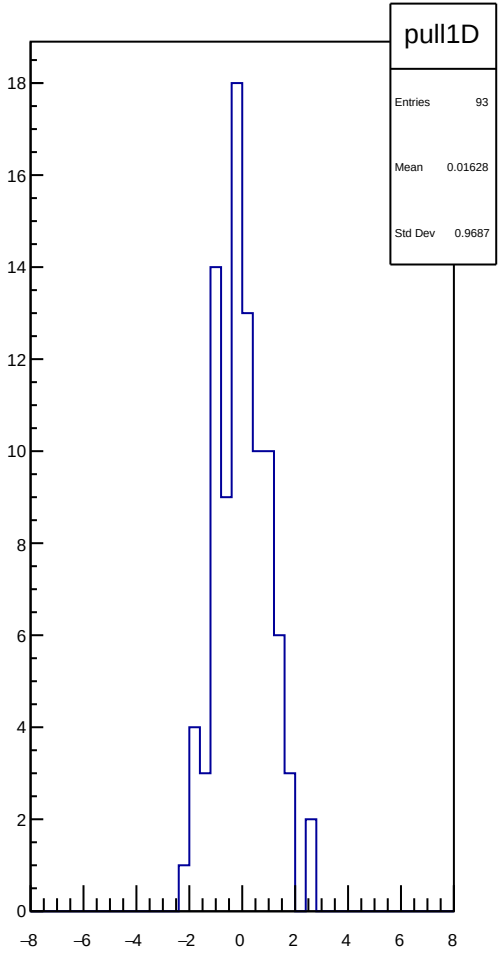

pull1D
Entries 93
Mean 0.007916
Std Dev 1.111

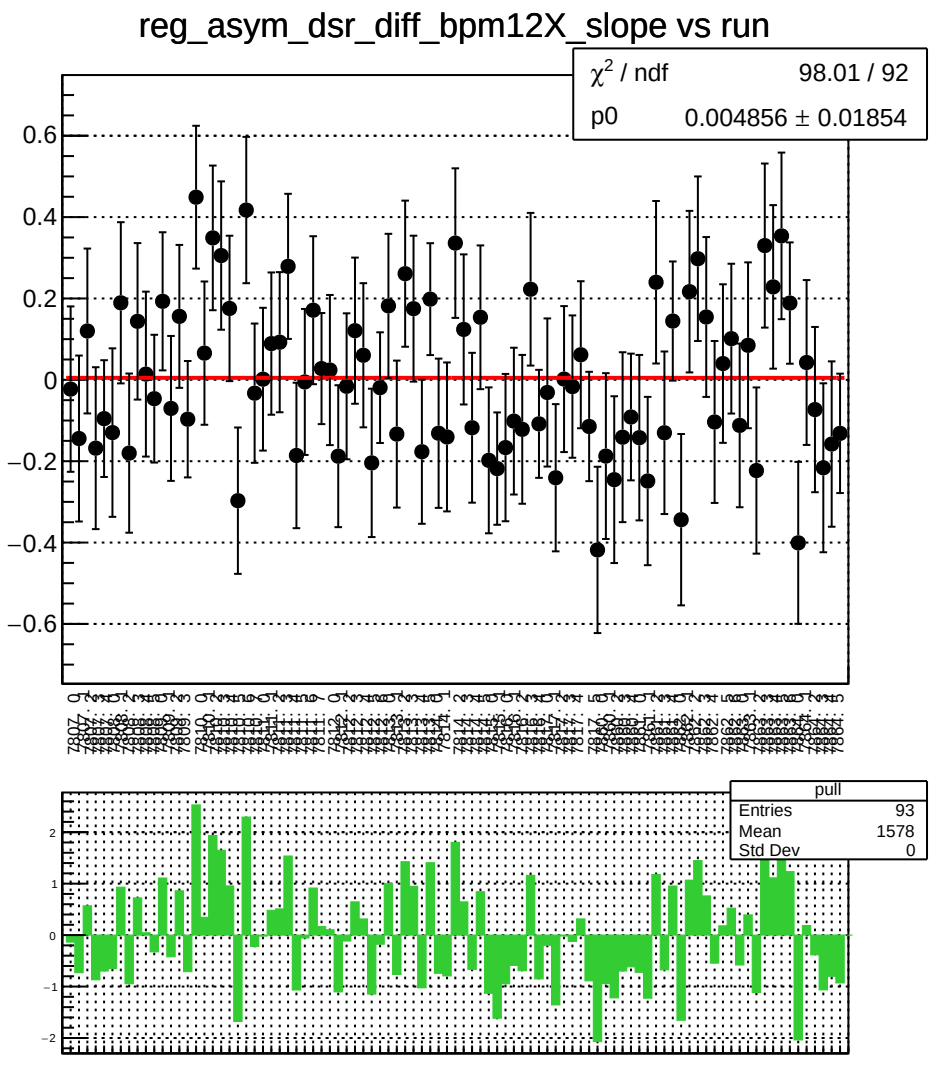

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 83.81 / 92
p0 0.772 ± 0.5588
pull
Entries 93
Mean 184.3
Std Dev 0

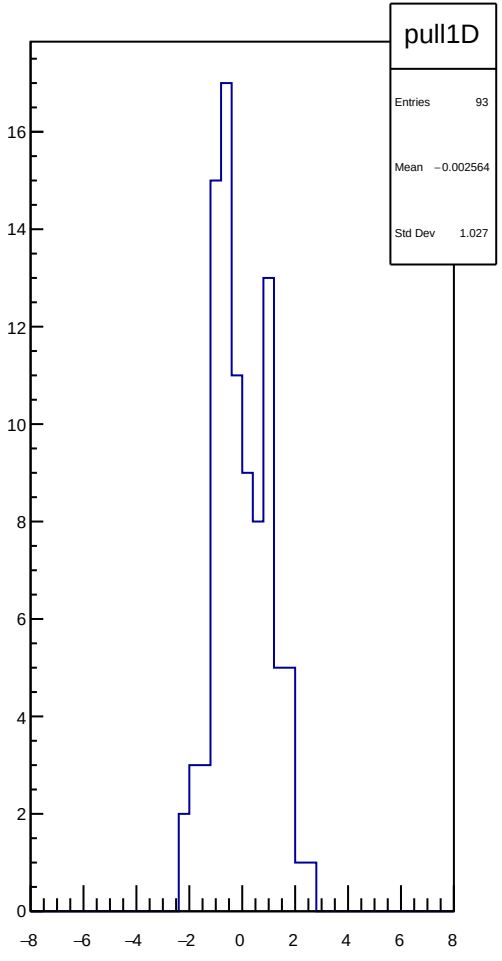

pull1D
Entries 93
Mean −0.01451
Std Dev 0.9492

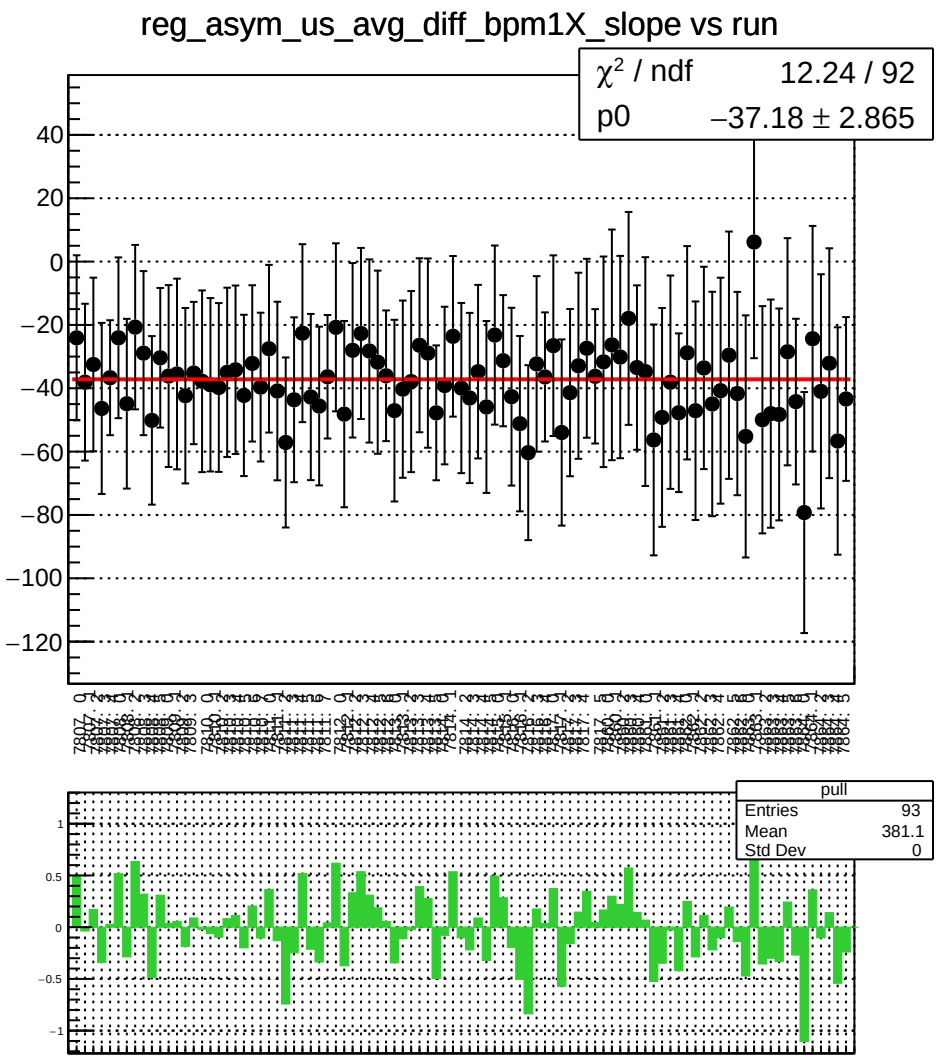

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 117.6 / 92
p0 −0.1855 ± 0.4953
pull
Entries 93
Mean −221.6
Std Dev 0
pull1D
Entries 93
Mean −0.01051
Std Dev 1.125

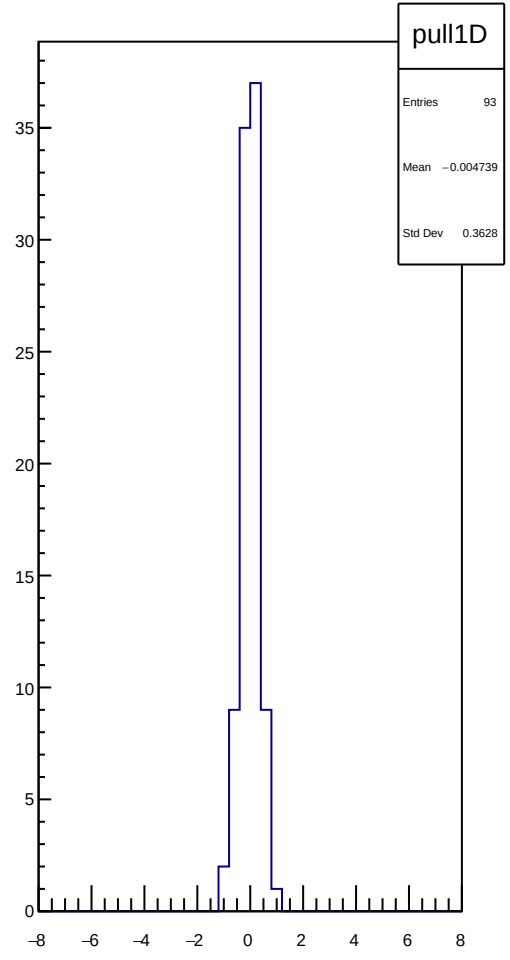

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 87.29 / 92
p0 −1.02 ± 0.6373
pull
Entries 93
Mean 184.5
Std Dev 0

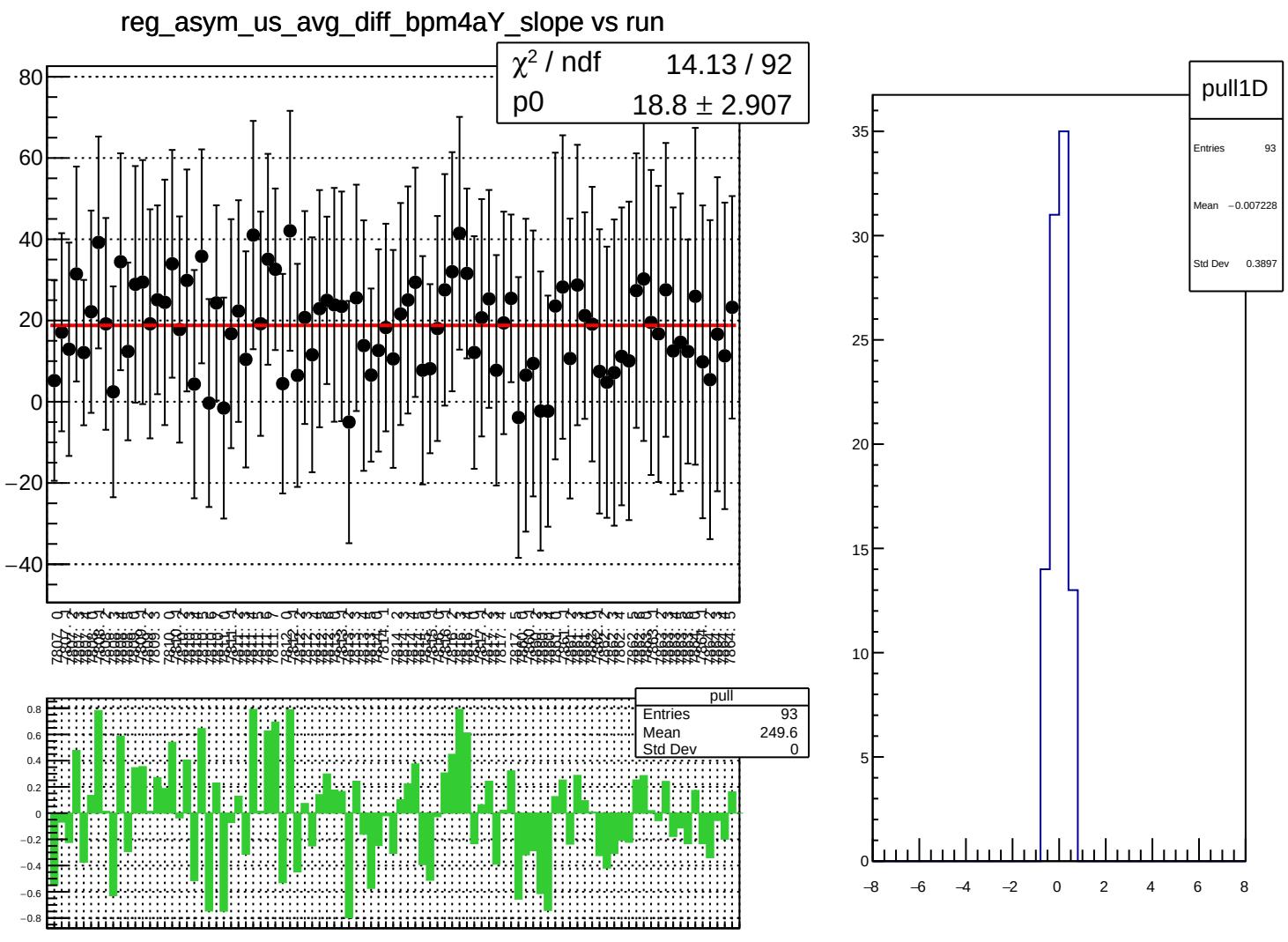

pull1D
Entries 93
Mean 0.01628
Std Dev 0.9687

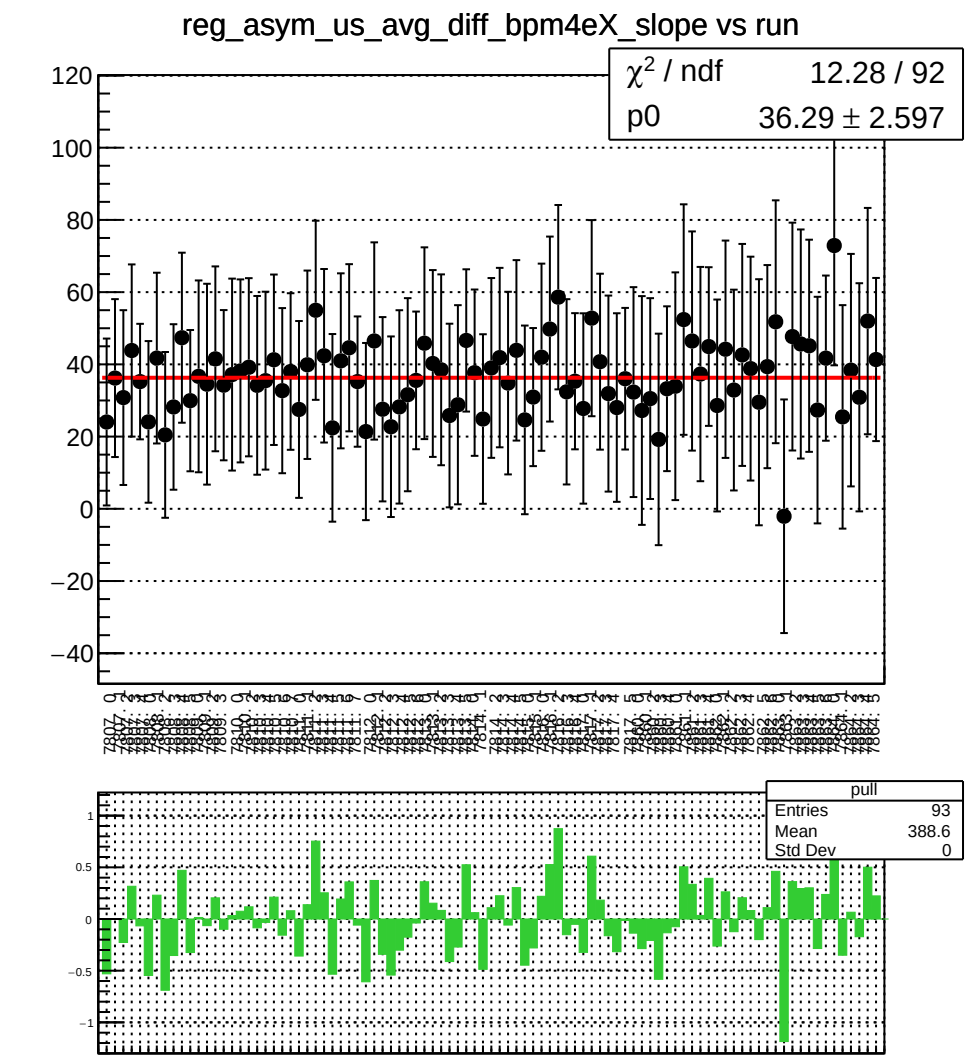

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 98.01 / 92
p0 0.004856 ± 0.01854
pull
Entries 93
Mean 1578
Std Dev 0

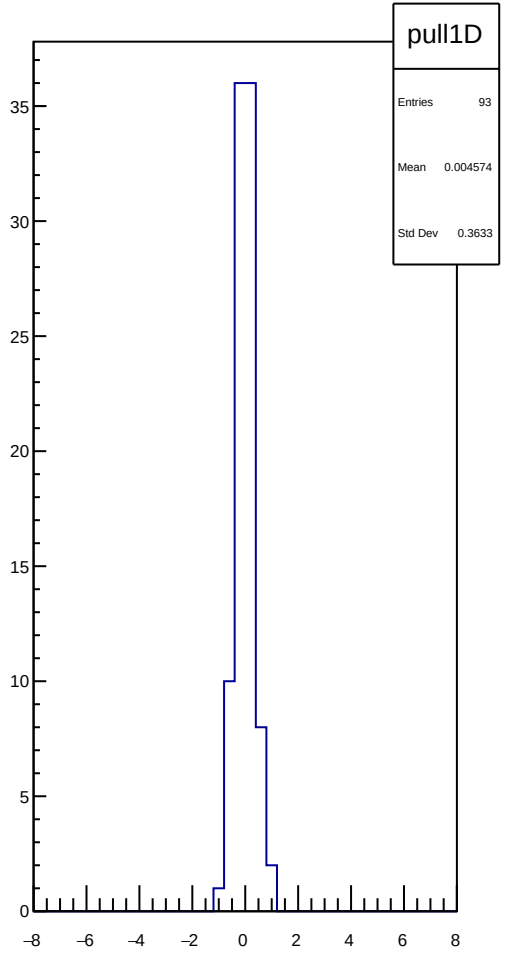

pull1D
Entries 93
Mean −0.002564
Std Dev 1.027

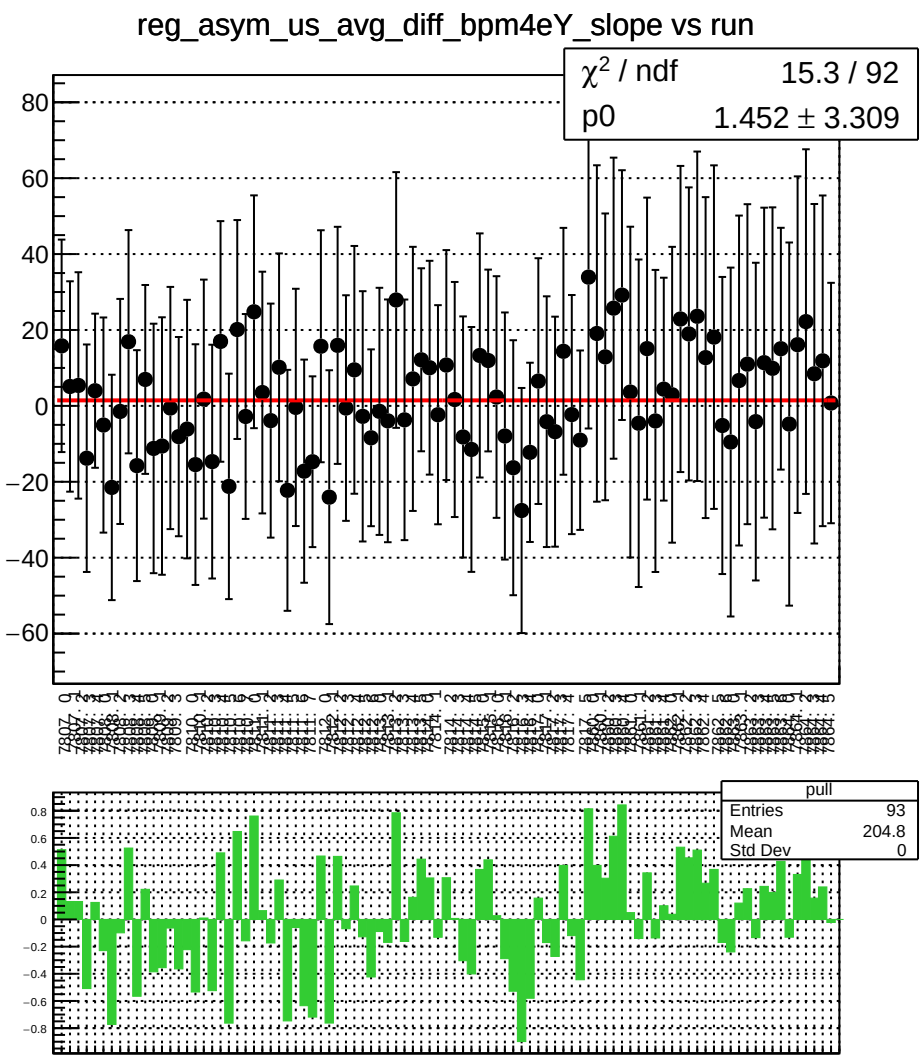

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 12.24 / 92
p0 −37.18 ± 2.865
pull
Entries 93
Mean 381.1
Std Dev 0

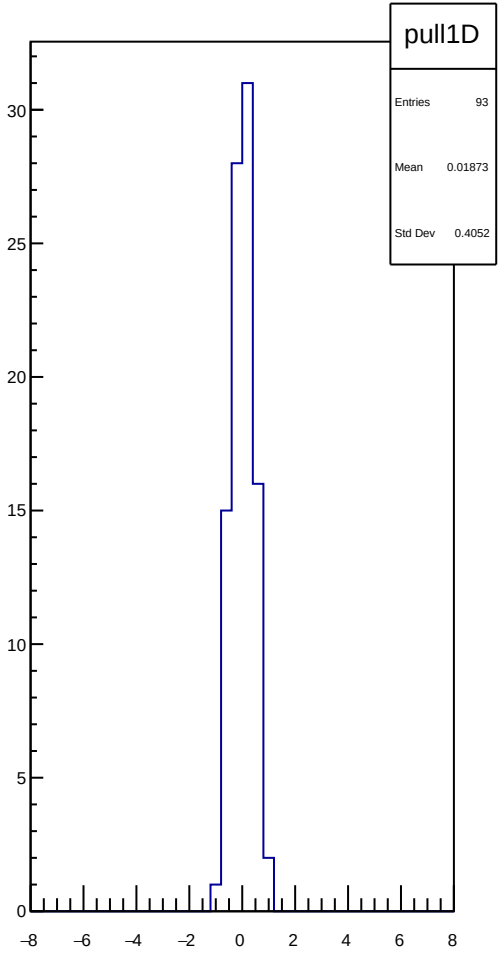

pull1D
Entries 93
Mean −0.004739
Std Dev 0.3628

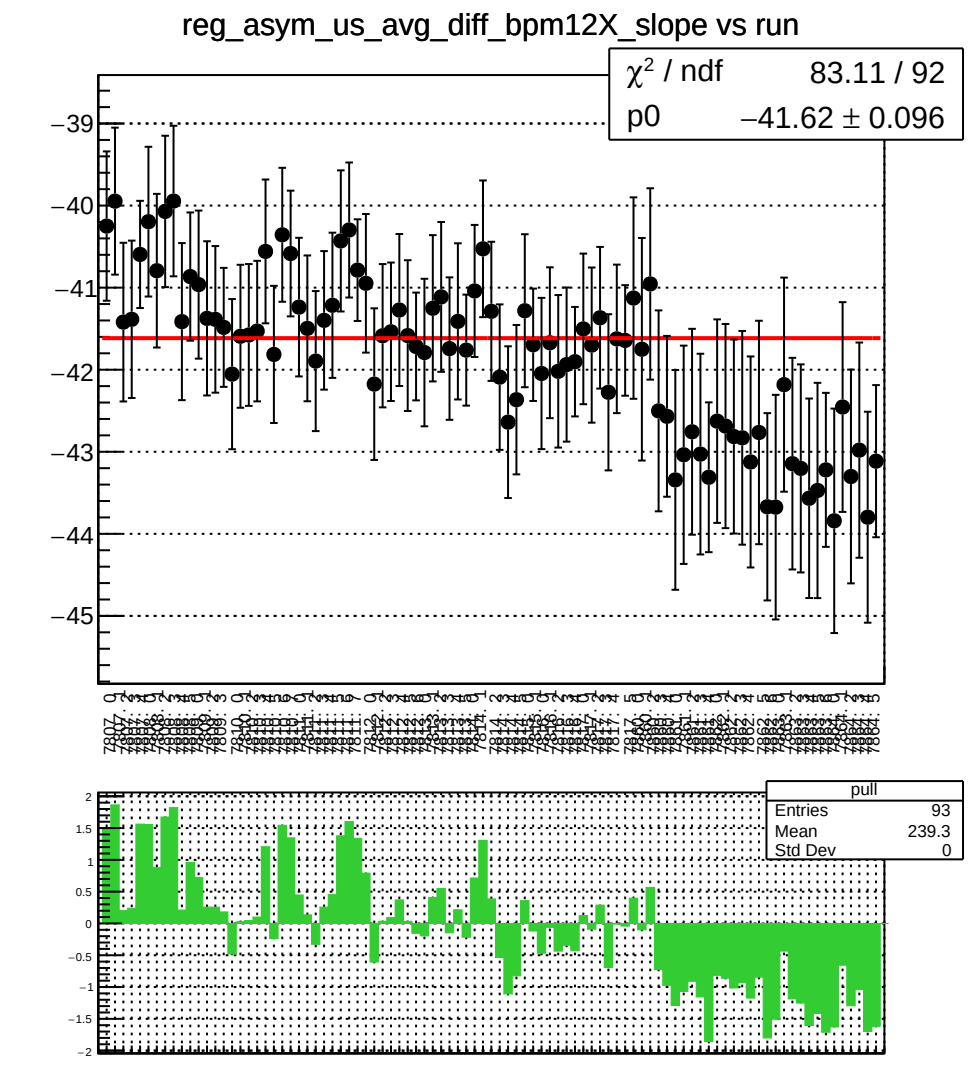

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 14.13 / 92
p0 18.8 ± 2.907
pull
Entries 93
Mean 249.6
Std Dev 0
pull1D
Entries 93
Mean −0.007228
Std Dev 0.3897

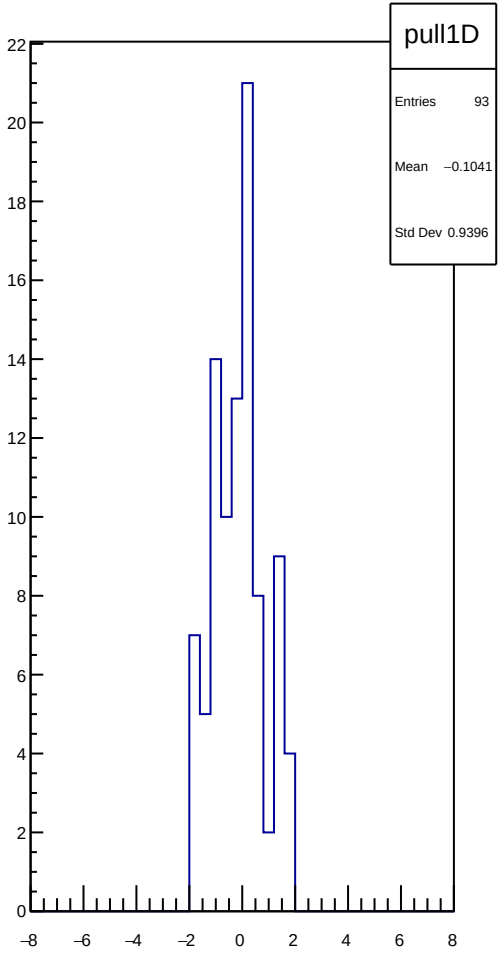

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 12.28 / 92
p0 36.29 ± 2.597
pull
Entries 93
Mean 388.6
Std Dev 0

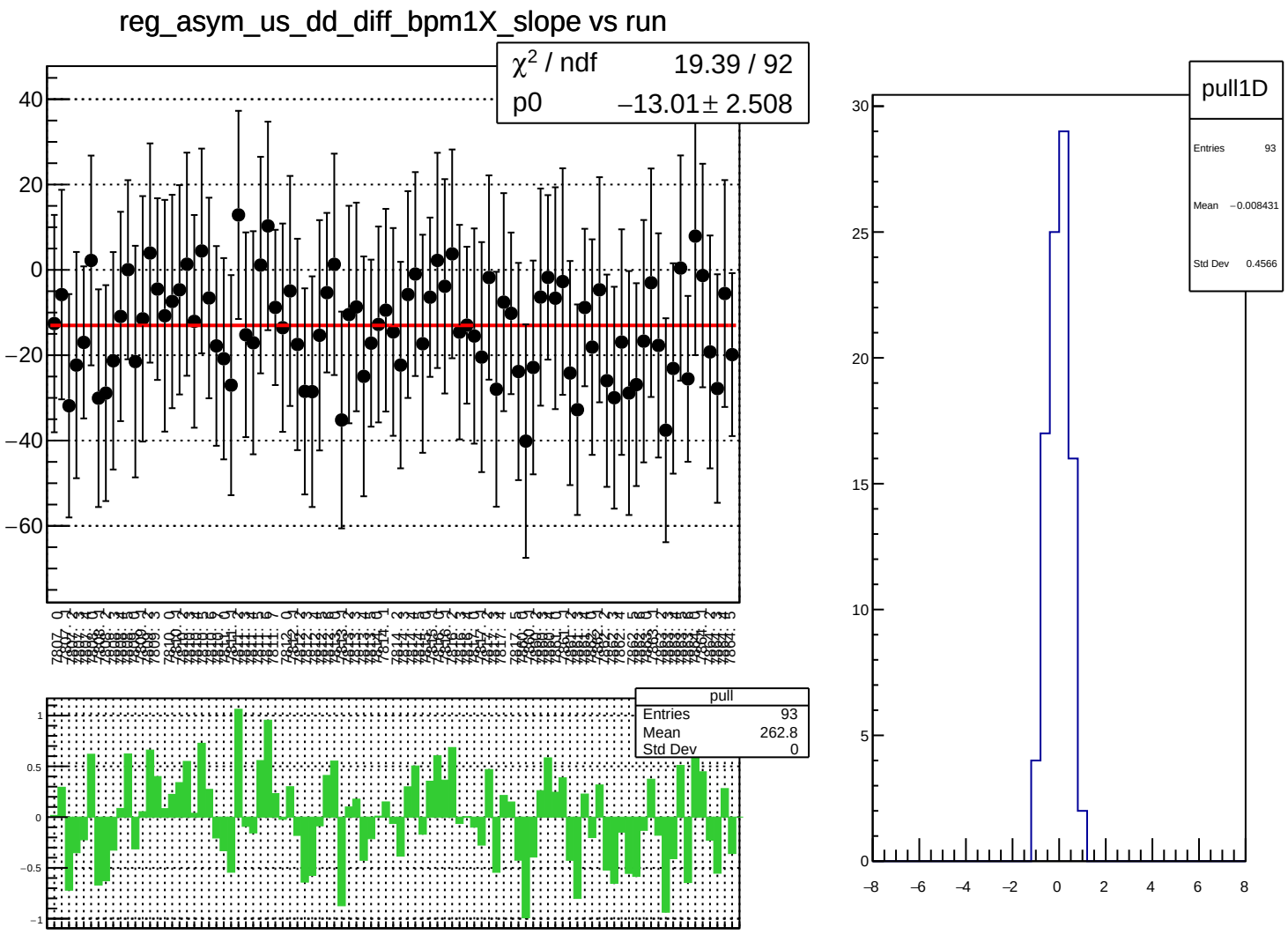

pull1D
Entries 93
Mean 0.004574
Std Dev 0.3633

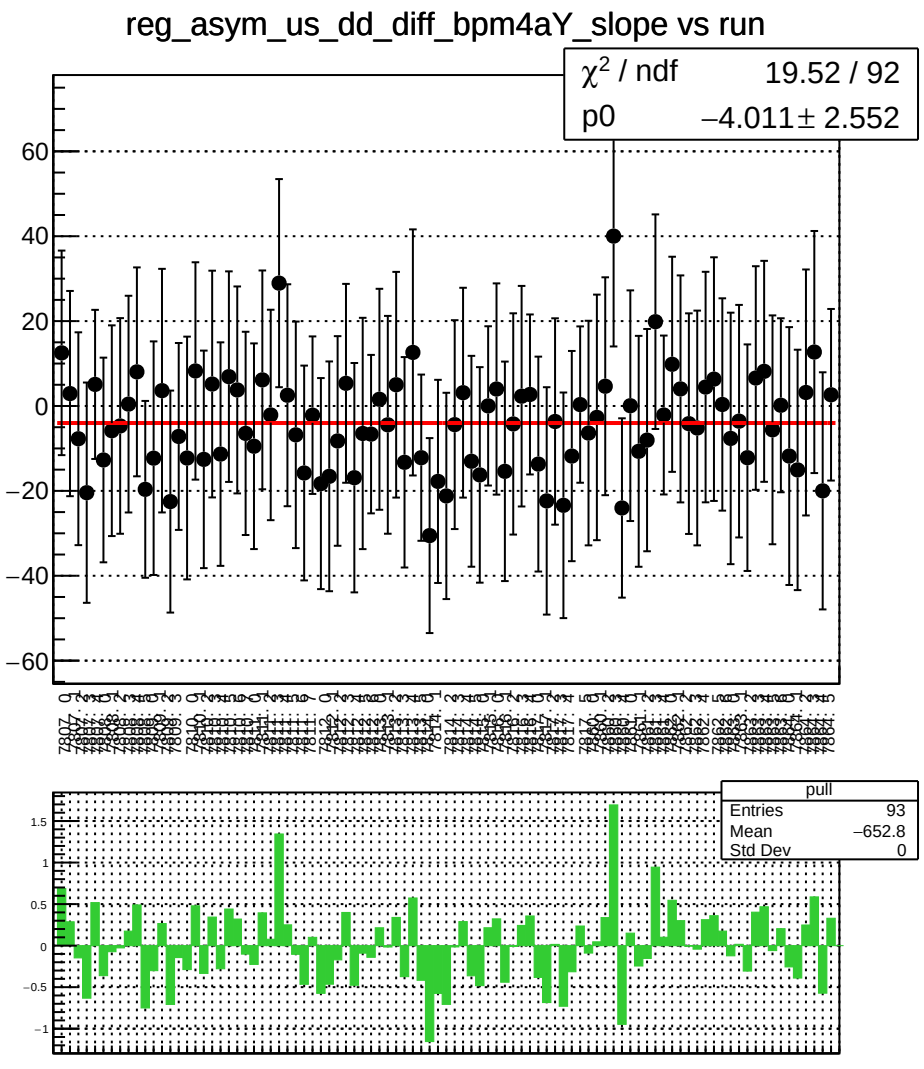

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 15.3 / 92
p0 1.452 ± 3.309
pull
Entries 93
Mean 204.8
Std Dev 0

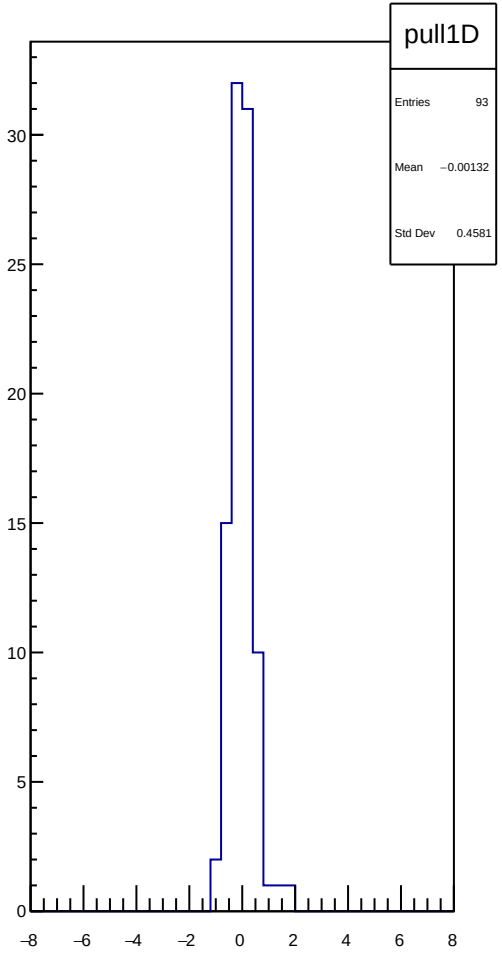

pull1D
Entries 93
Mean 0.01873
Std Dev 0.4052

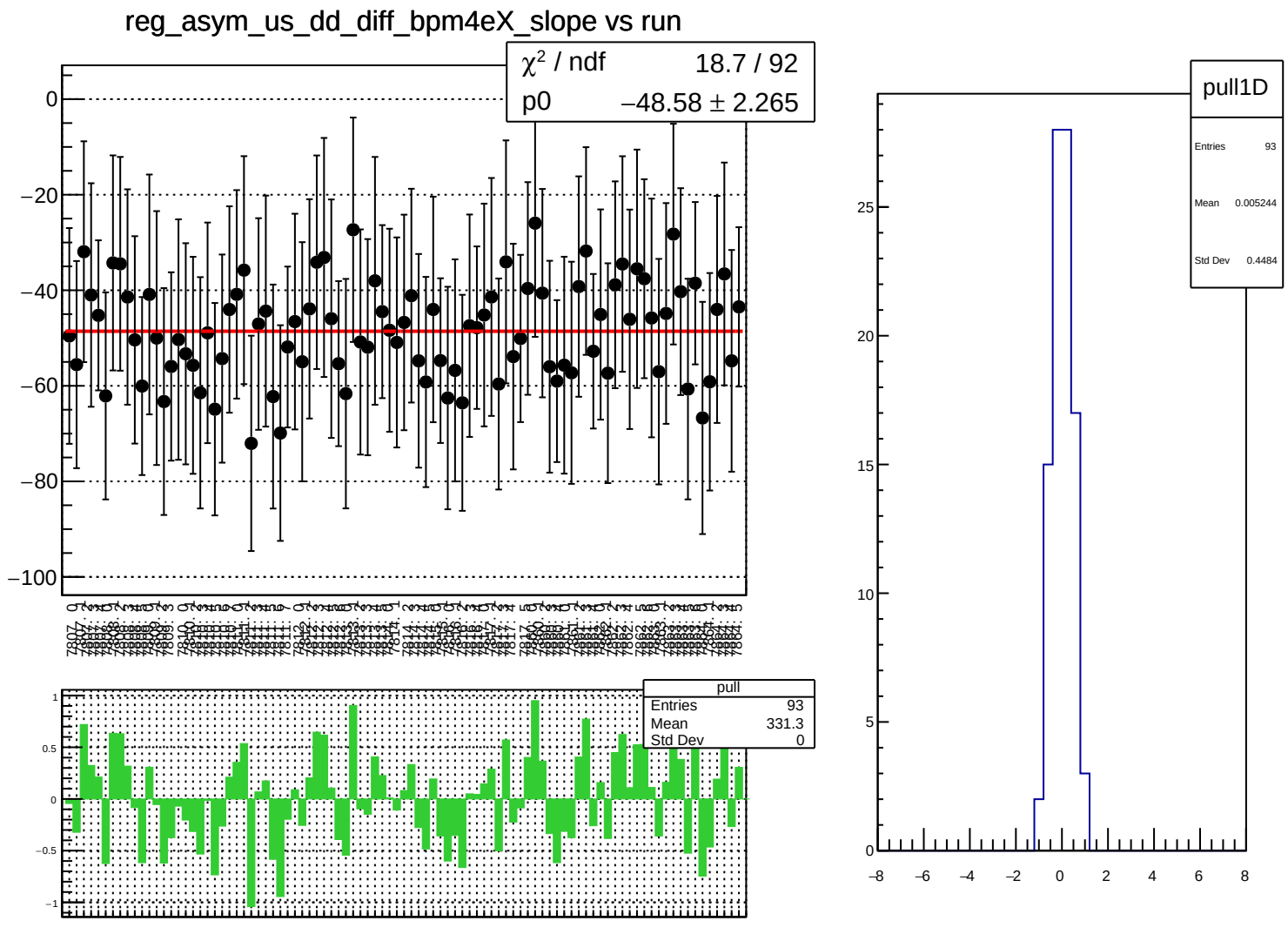

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 83.11 / 92
p0 −41.62 ± 0.096
pull
Entries 93
Mean 239.3
Std Dev 0

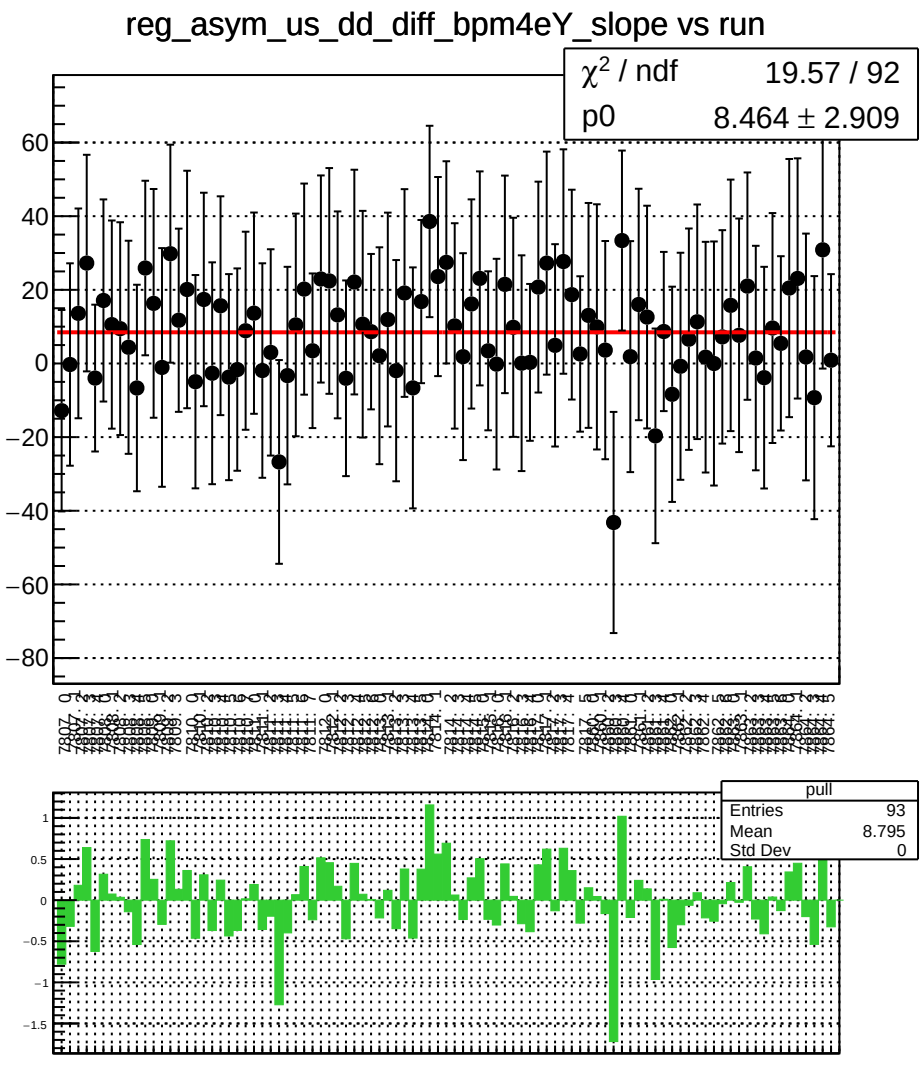

pull1D
Entries 93
Mean −0.1041
Std Dev 0.9396

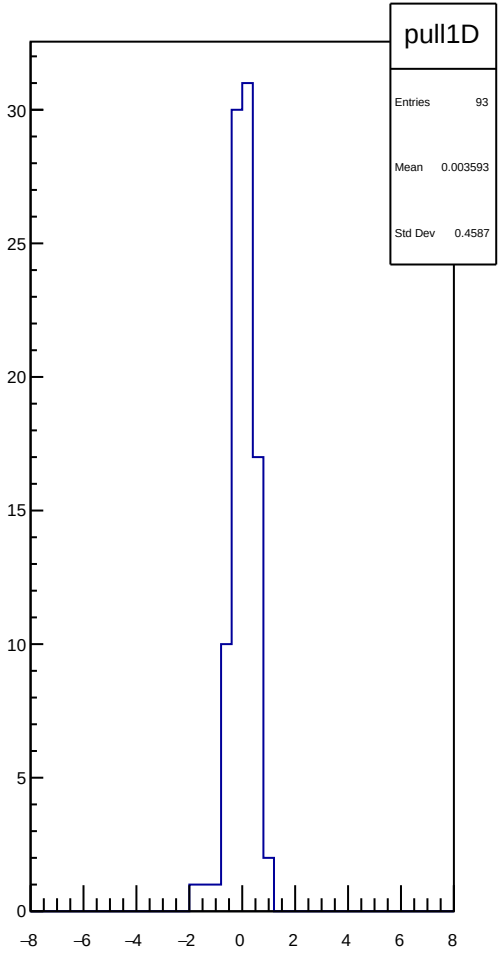

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 19.39 / 92
p0 −13.01 ± 2.508
pull
Entries 93
Mean 262.8
Std Dev 0
pull1D
Entries 93
Mean −0.008431
Std Dev 0.4566

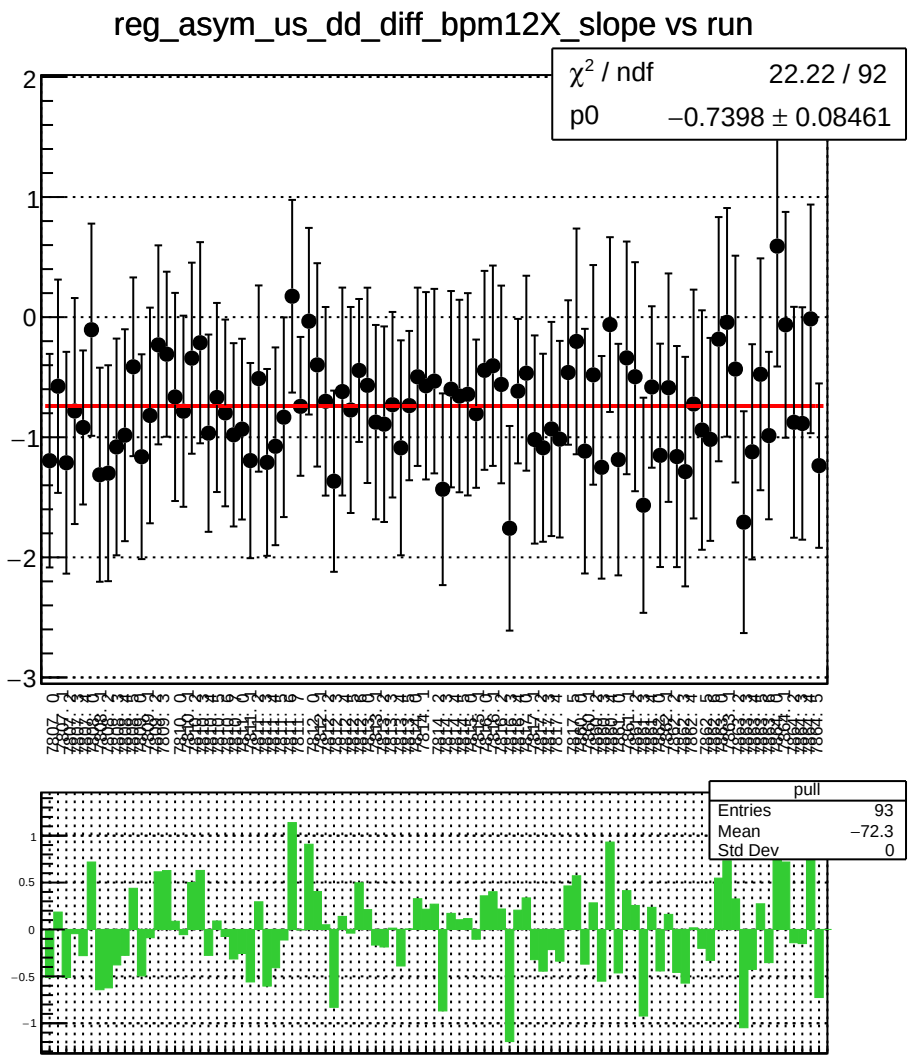

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 19.52 / 92
p0 −4.011 ± 2.552
pull
Entries 93
Mean −652.8
Std Dev 0

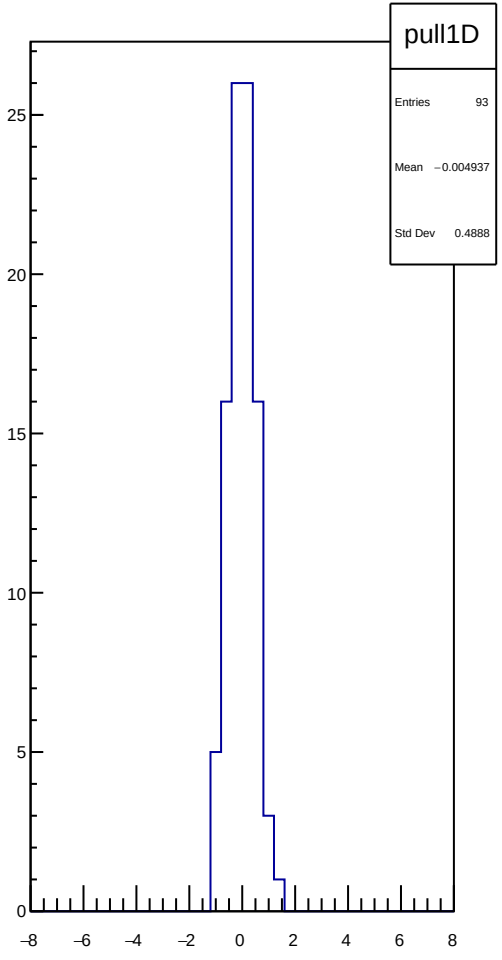

pull1D
Entries 93
Mean −0.00132
Std Dev 0.4581

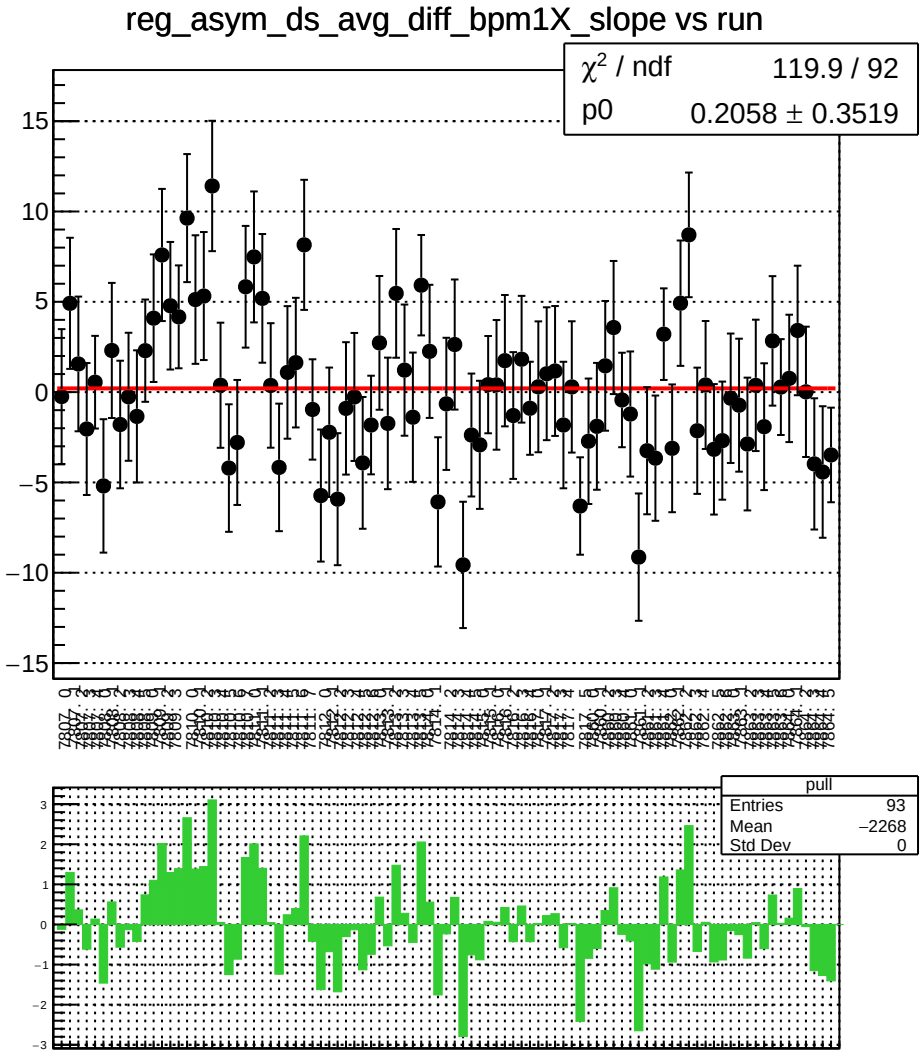

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 18.7 / 92
p0 −48.58 ± 2.265
pull
Entries 93
Mean 331.3
Std Dev 0
pull1D
Entries 93
Mean 0.005244
Std Dev 0.4484

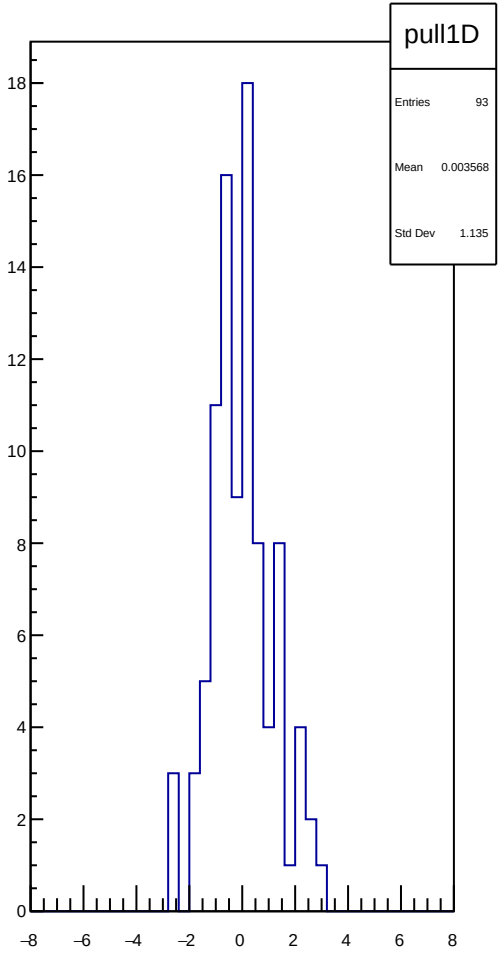

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 19.57 / 92
p0 8.464 ± 2.909
pull
Entries 93
Mean 8.795
Std Dev 0

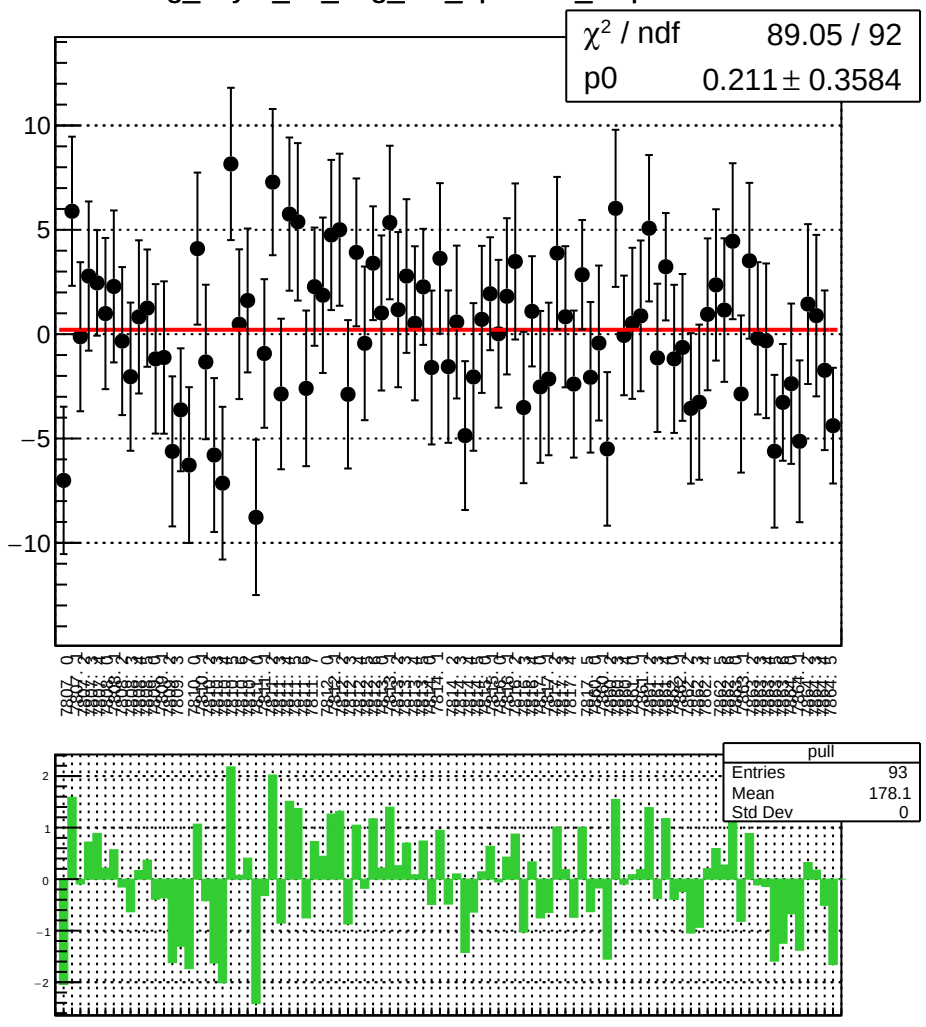

pull1D
Entries 93
Mean 0.003593
Std Dev 0.4587

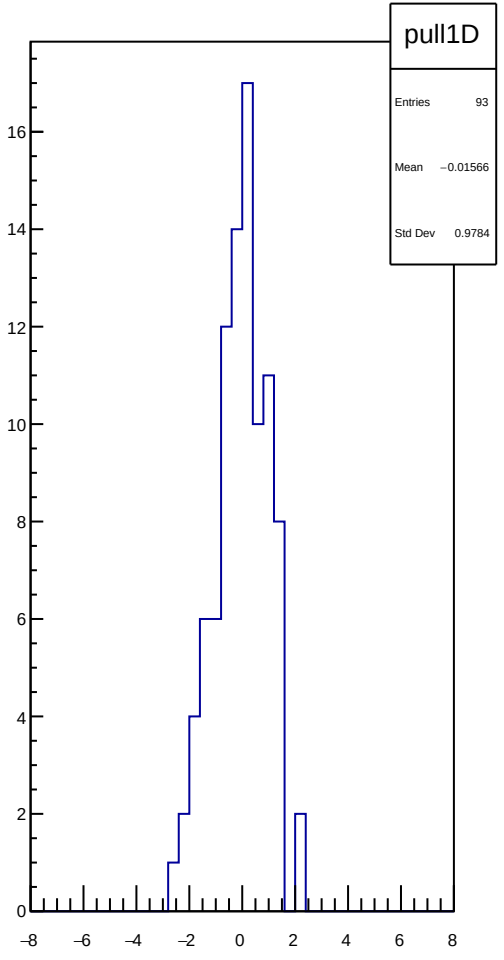

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 22.22 / 92
p0 −0.7398 ± 0.08461
pull
Entries 93
Mean −72.3
Std Dev 0

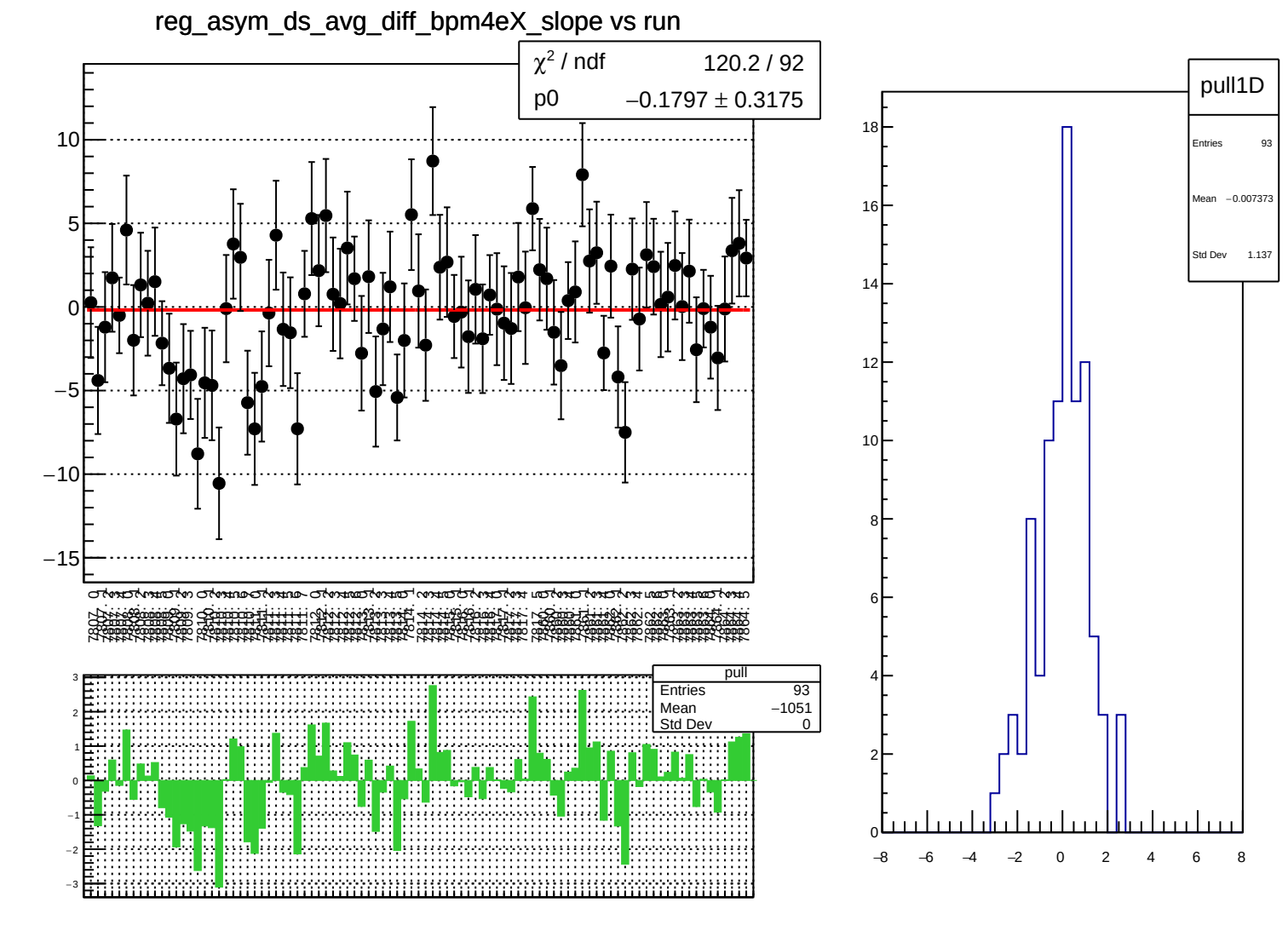

pull1D
Entries 93
Mean −0.004937
Std Dev 0.4888

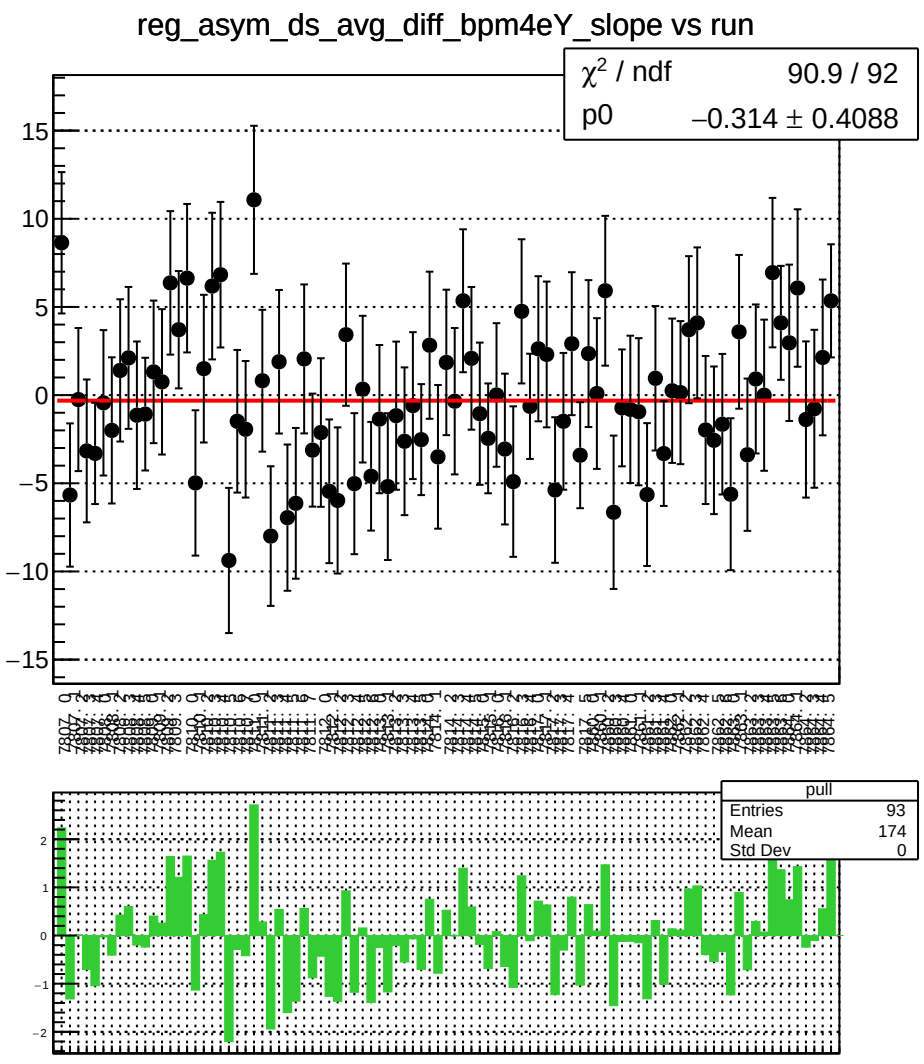

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 119.9 / 92
p0 0.2058 ± 0.3519
pull
Entries 93
Mean −2268
Std Dev 0

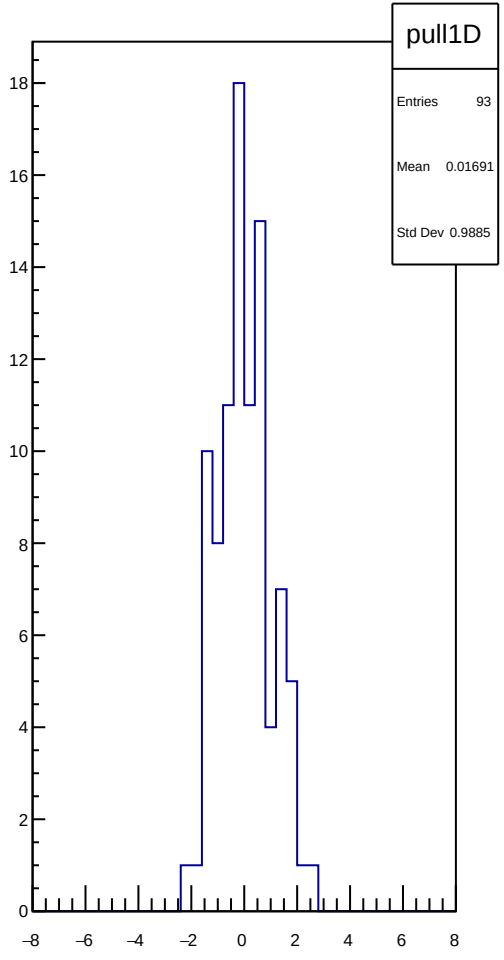

pull1D
Entries 93
Mean 0.003568
Std Dev 1.135

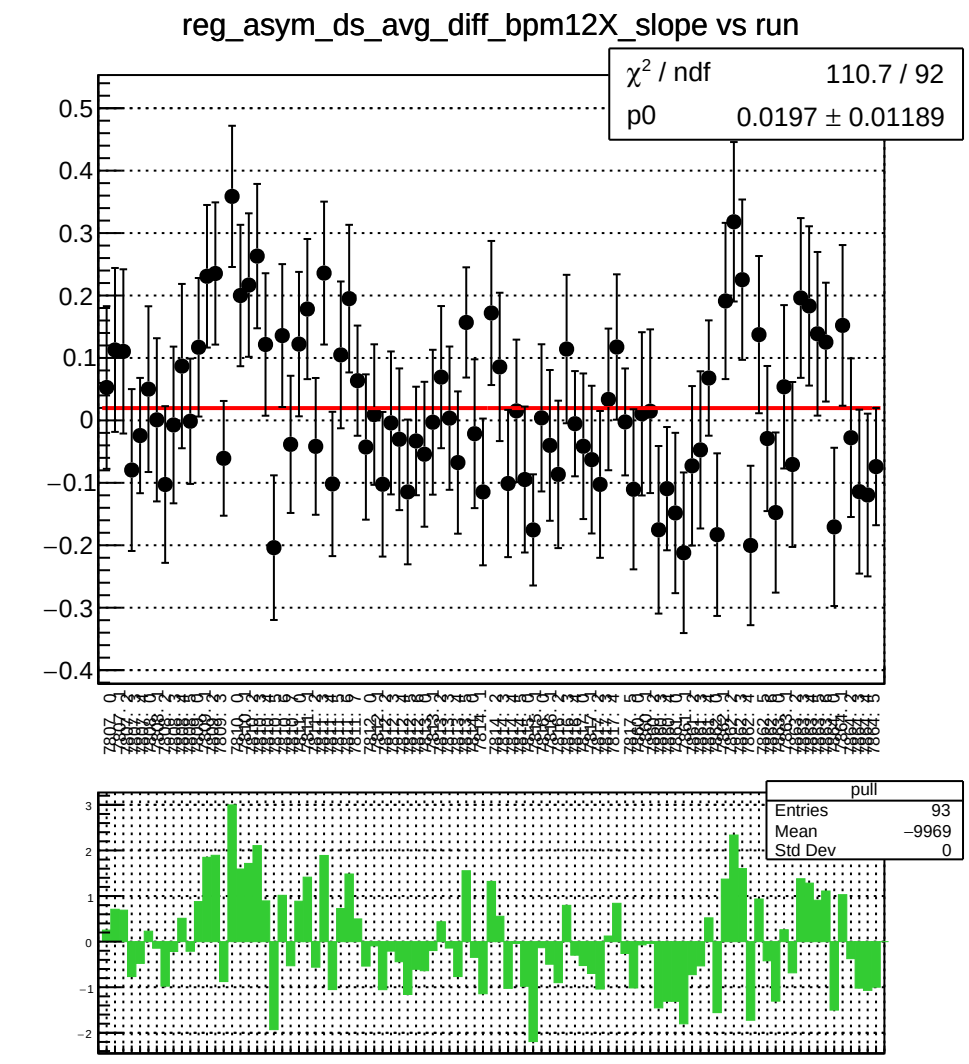

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 89.05 / 92
p0 0.211 ± 0.3584
pull
Entries 93
Mean 178.1
Std Dev 0

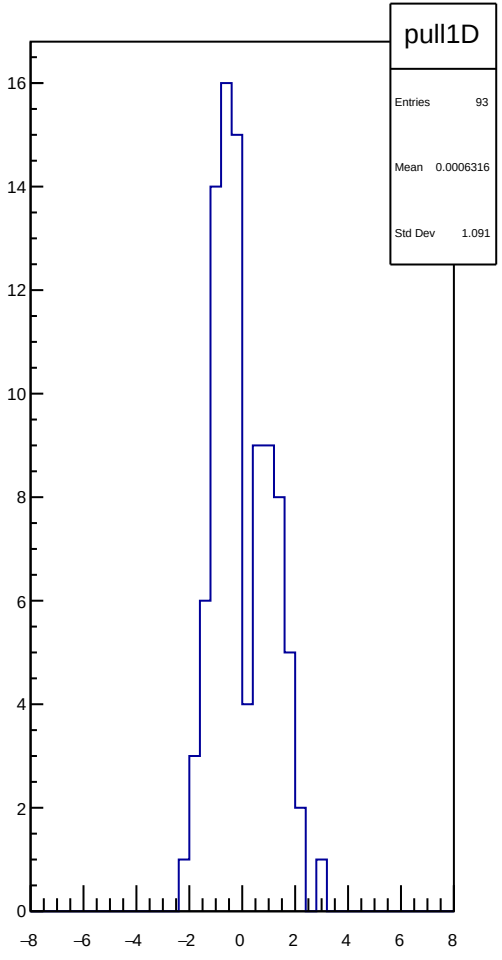

pull1D
Entries 93
Mean −0.01566
Std Dev 0.9784

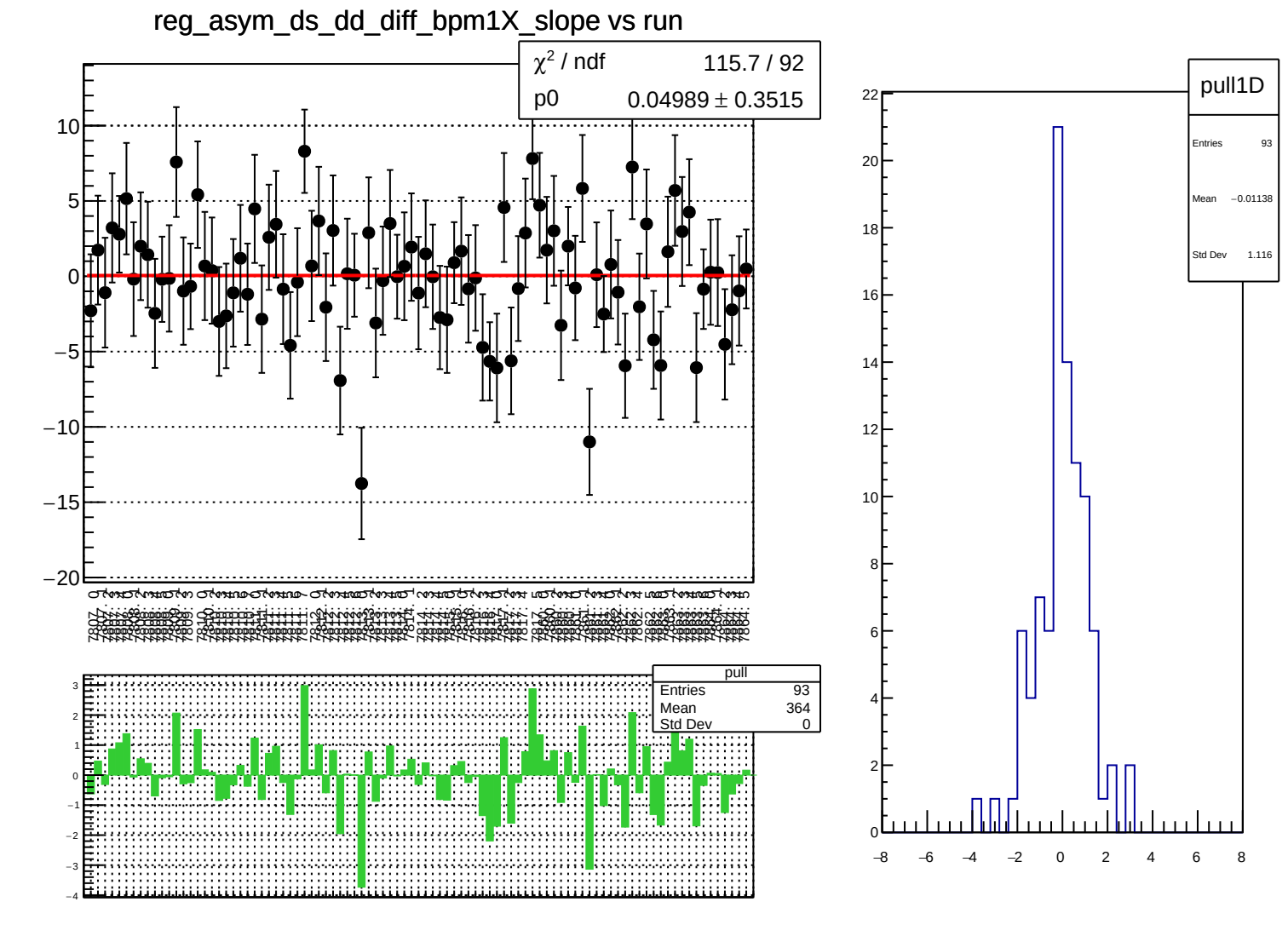

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 120.2 / 92
p0 −0.1797 ± 0.3175
pull
Entries 93
Mean −1051
Std Dev 0
pull1D
Entries 93
Mean −0.007373
Std Dev 1.137

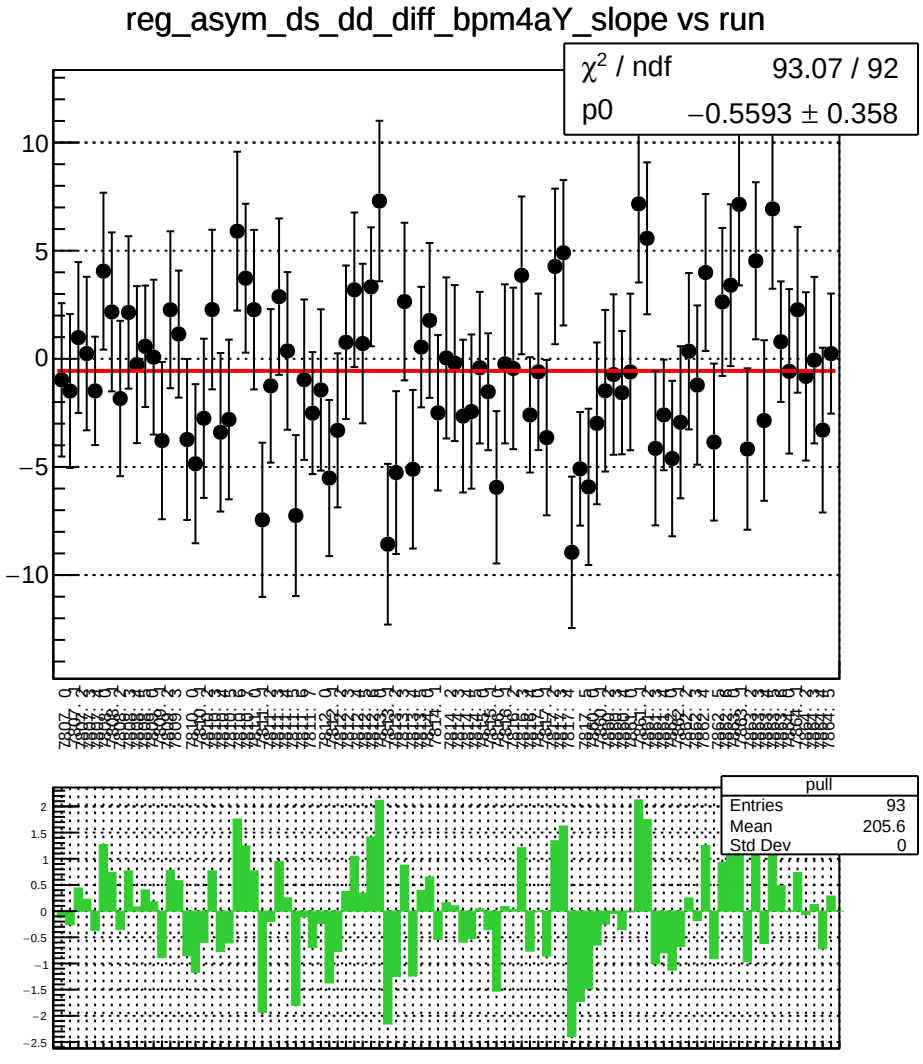

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 90.9 / 92
p0 −0.314 ± 0.4088
pull
Entries 93
Mean 174
Std Dev 0

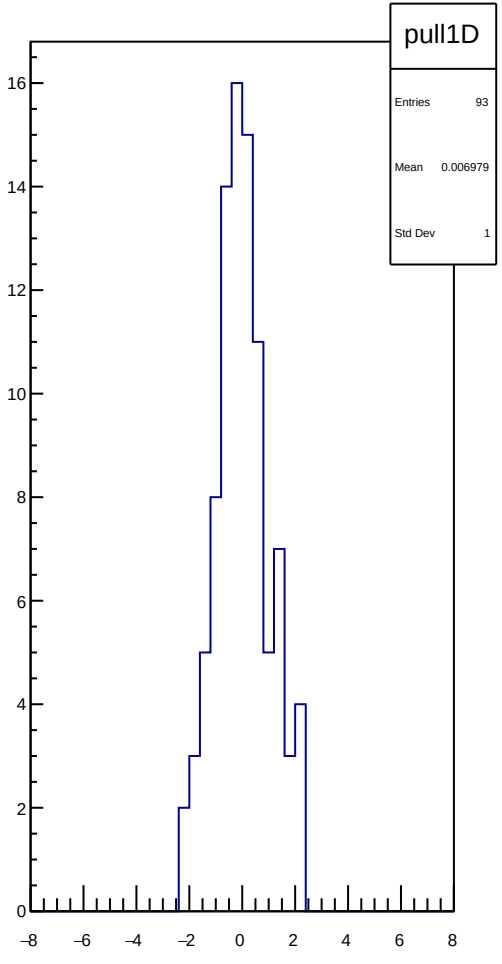

pull1D
Entries 93
Mean 0.01691
Std Dev 0.9885

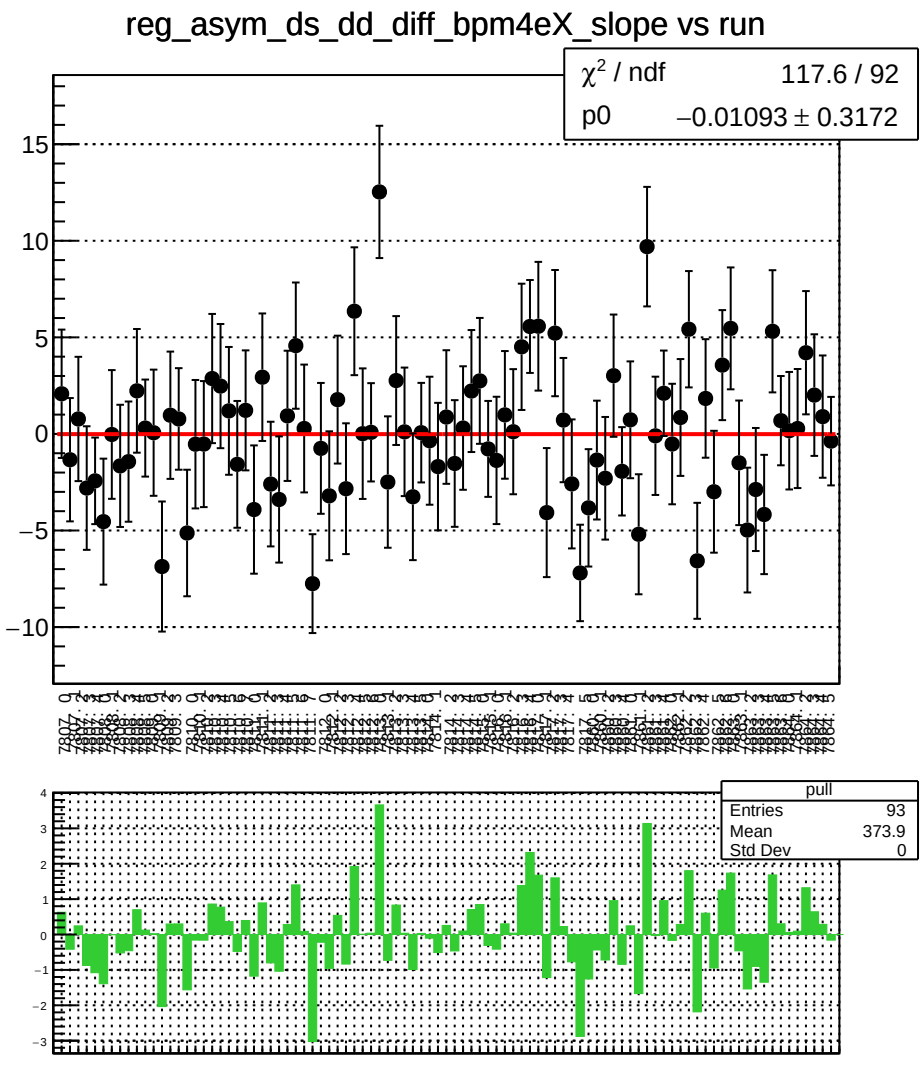

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 110.7 / 92
p0 0.0197 ± 0.01189
pull
Entries 93
Mean −9969
Std Dev 0

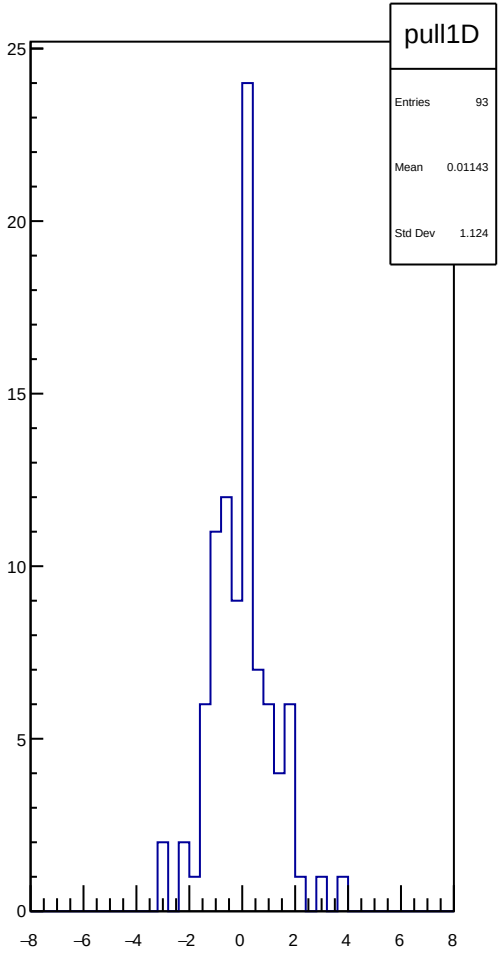

pull1D
Entries 93
Mean 0.0006316
Std Dev 1.091

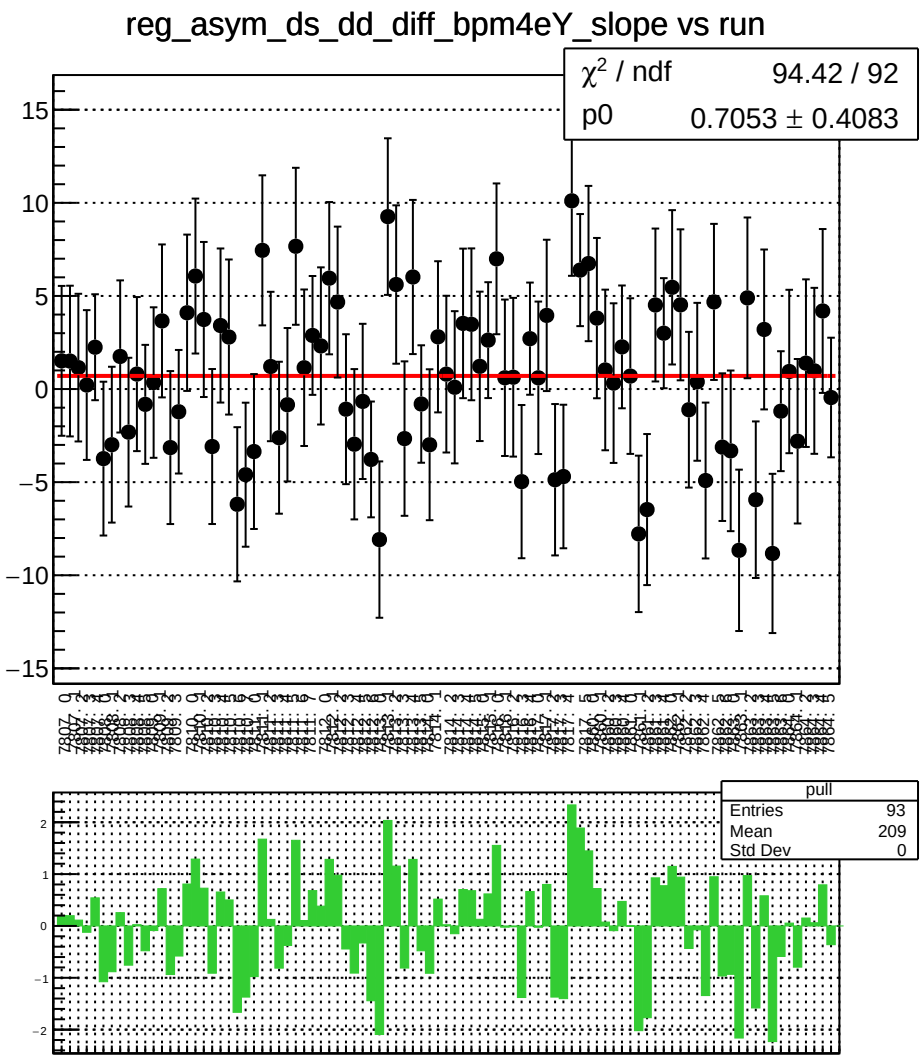

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 115.7 / 92
p0 0.04989 ± 0.3515
pull
Entries 93
Mean 364
Std Dev 0
pull1D
Entries 93
Mean −0.01138
Std Dev 1.116

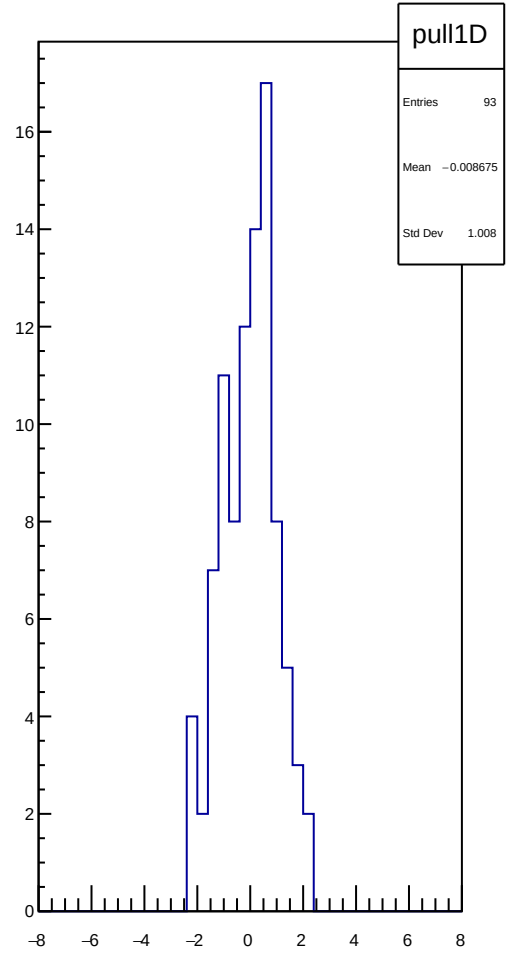

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 93.07 / 92
p0 −0.5593 ± 0.358
pull
Entries 93
Mean 205.6
Std Dev 0

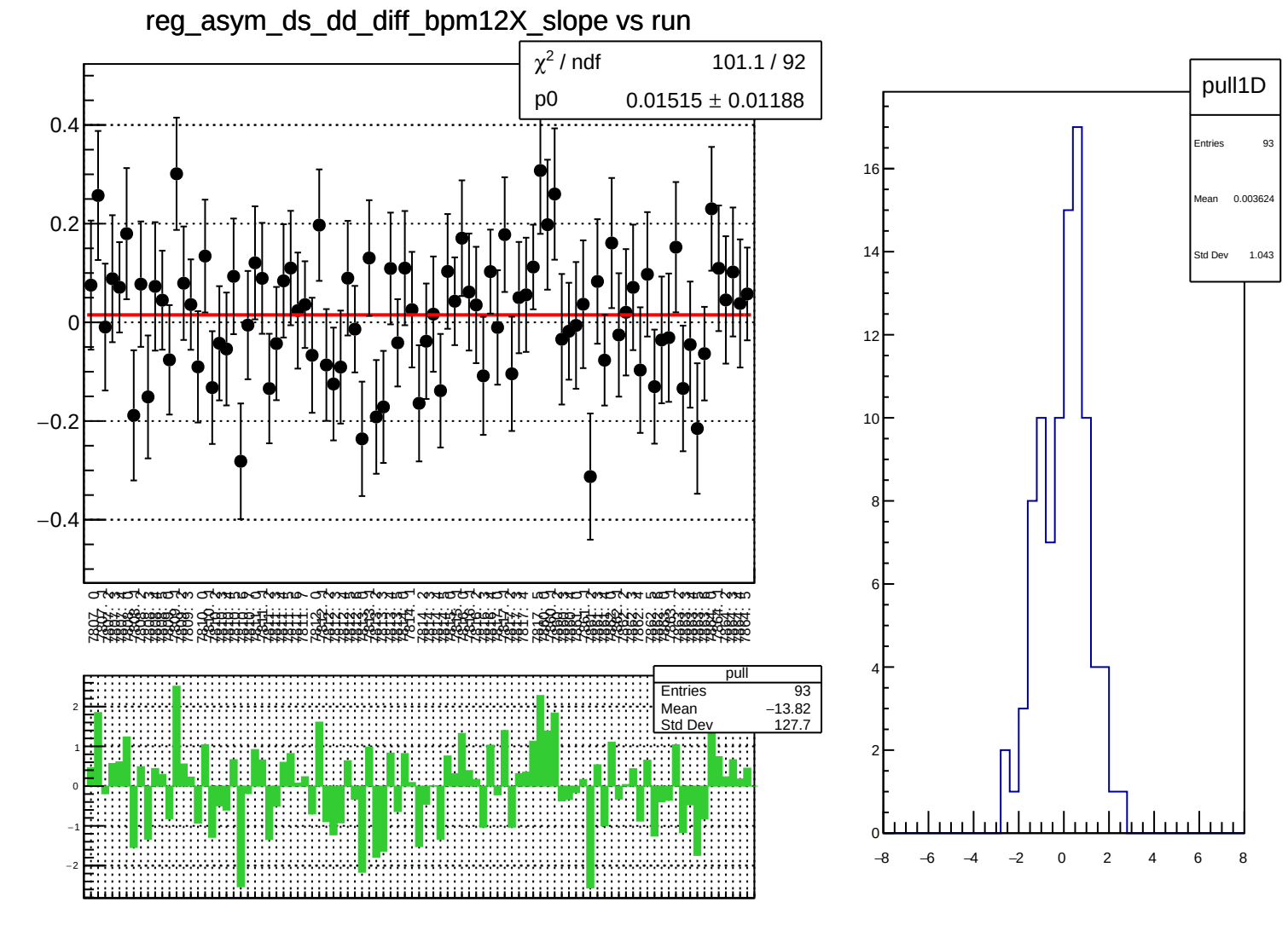

pull1D
Entries 93
Mean 0.006979
Std Dev 1

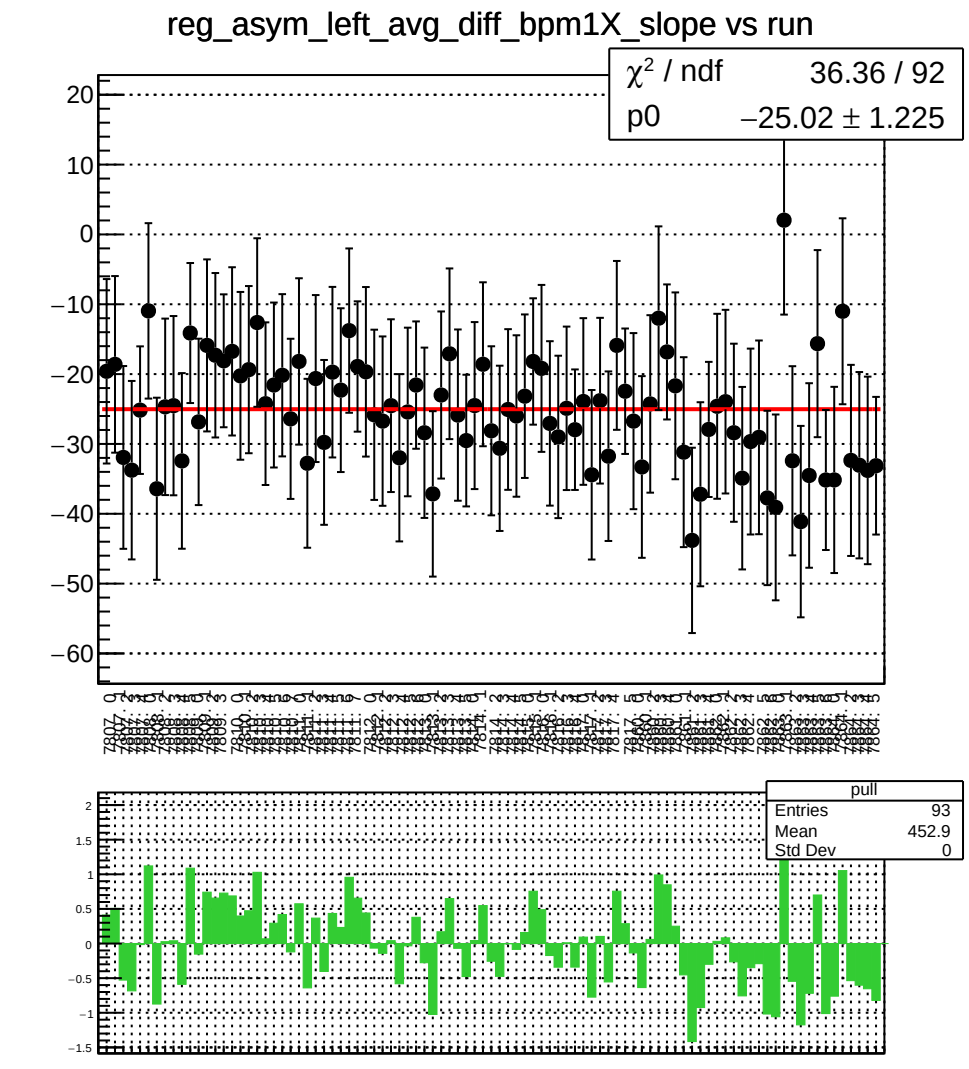

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 117.6 / 92
p0 −0.01093 ± 0.3172
pull
Entries 93
Mean 373.9
Std Dev 0

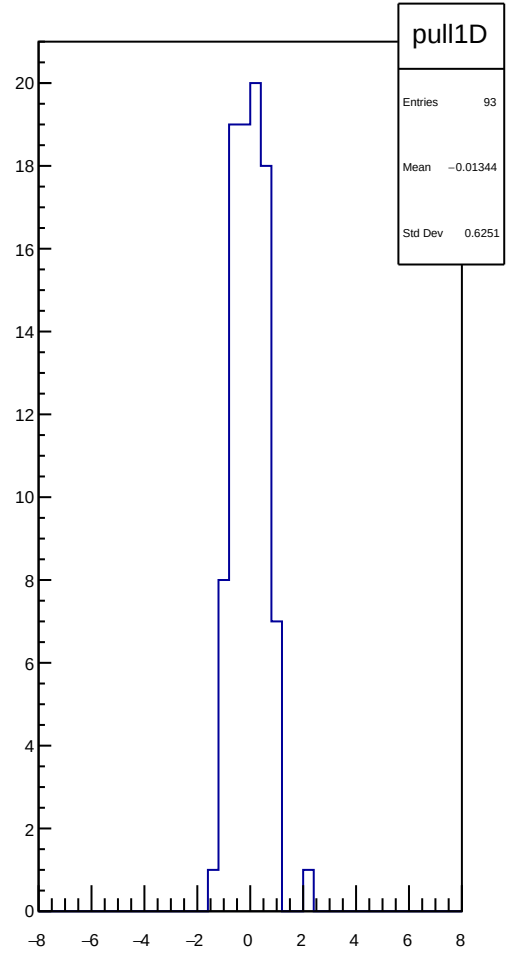

pull1D
Entries 93
Mean 0.01143
Std Dev 1.124

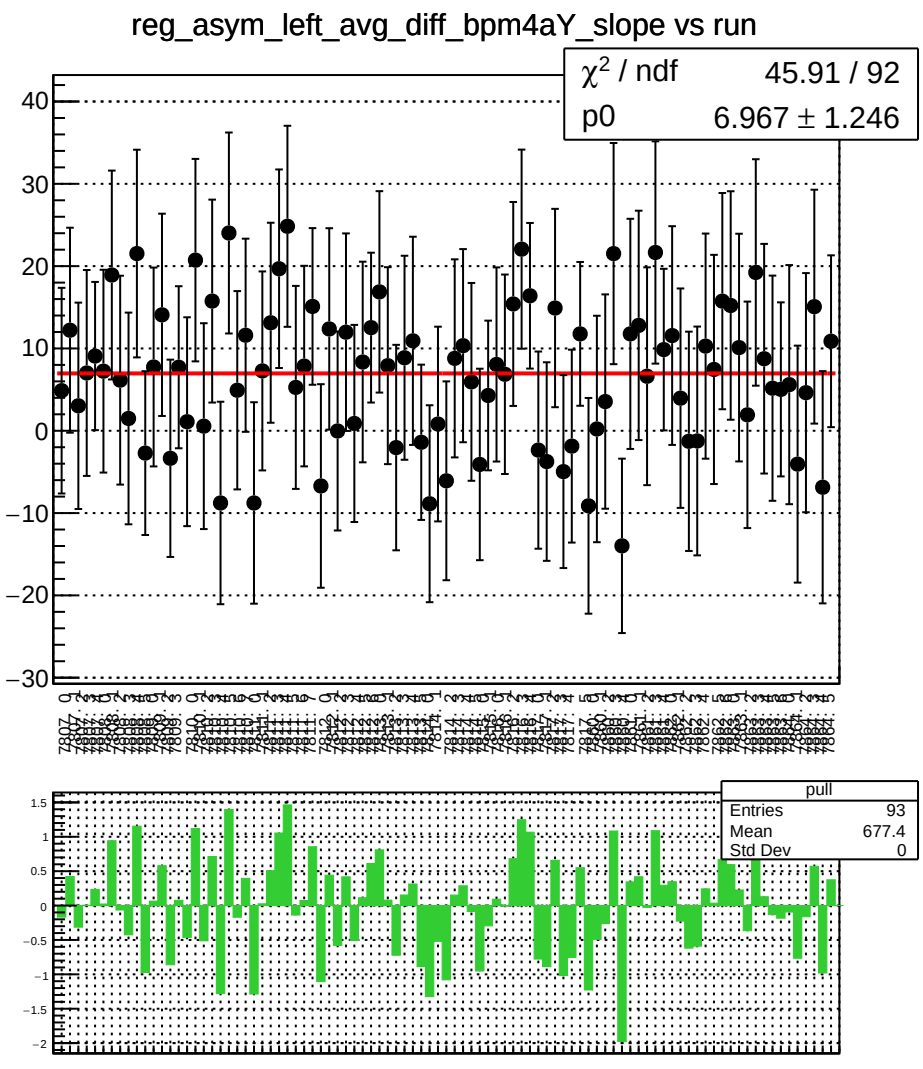

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 94.42 / 92
p0 0.7053 ± 0.4083
pull
Entries 93
Mean 209
Std Dev 0

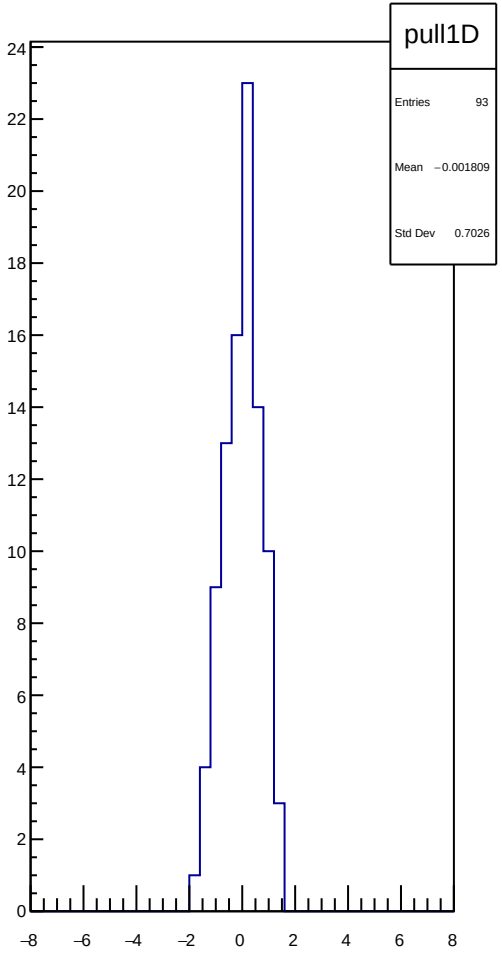

pull1D
Entries 93
Mean −0.008675
Std Dev 1.008

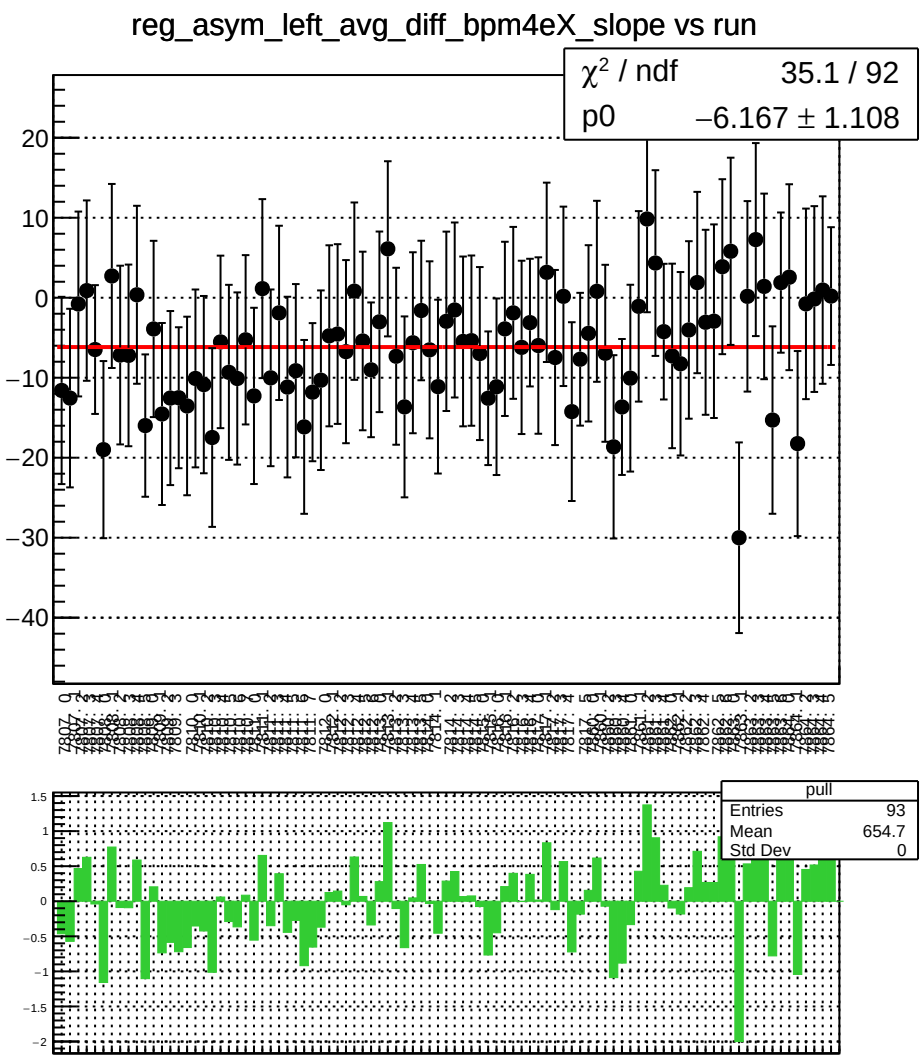

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 101.1 / 92
p0 0.01515 ± 0.01188
pull
Entries 93
Mean −13.82
Std Dev 127.7
pull1D
Entries 93
Mean 0.003624
Std Dev 1.043

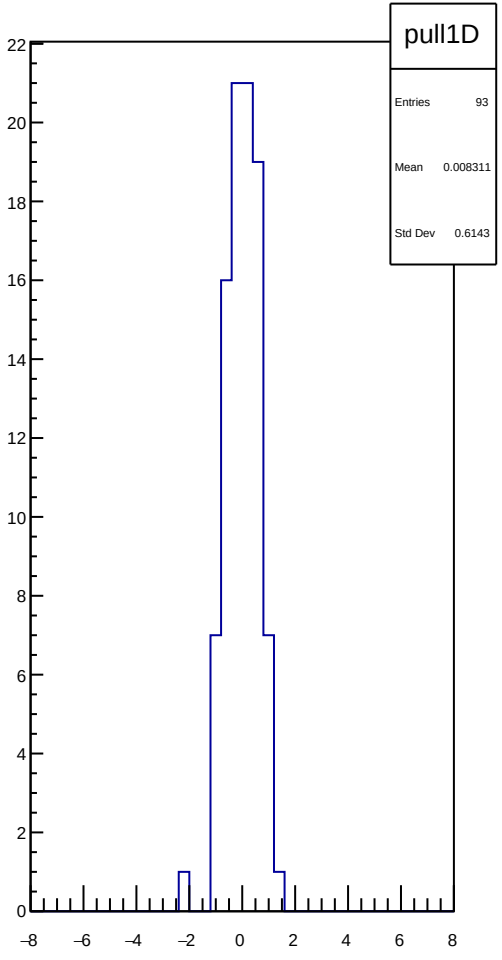

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 36.36 / 92
p0 −25.02 ± 1.225
pull
Entries 93
Mean 452.9
Std Dev 0

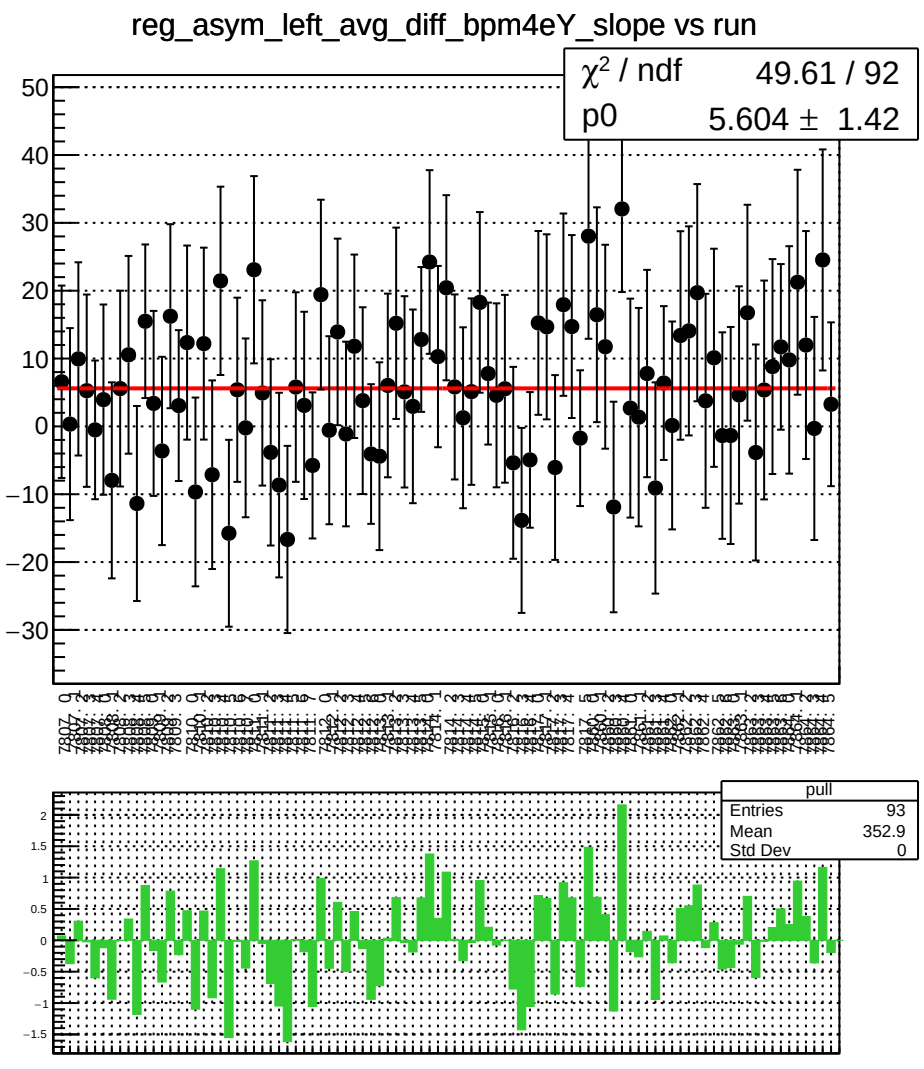

pull1D
Entries 93
Mean −0.01344
Std Dev 0.6251

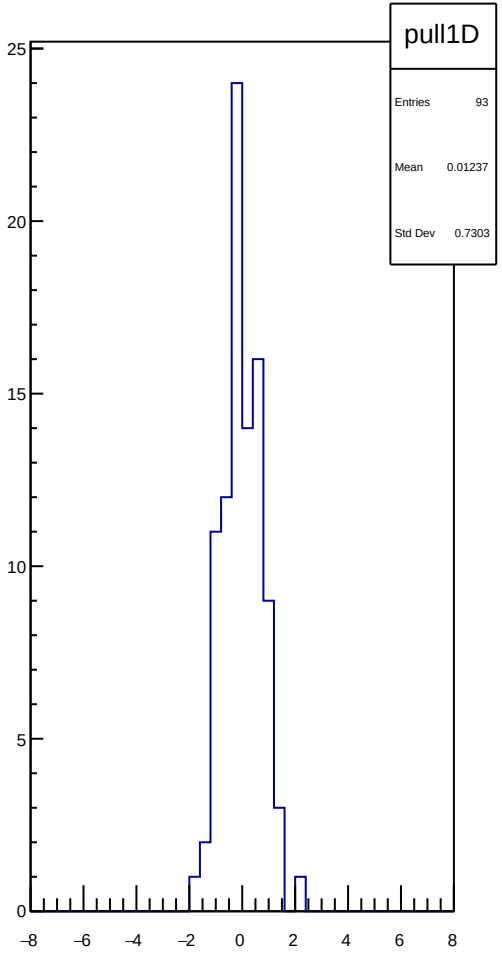

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 45.91 / 92
p0 6.967 ± 1.246
pull
Entries 93
Mean 677.4
Std Dev 0

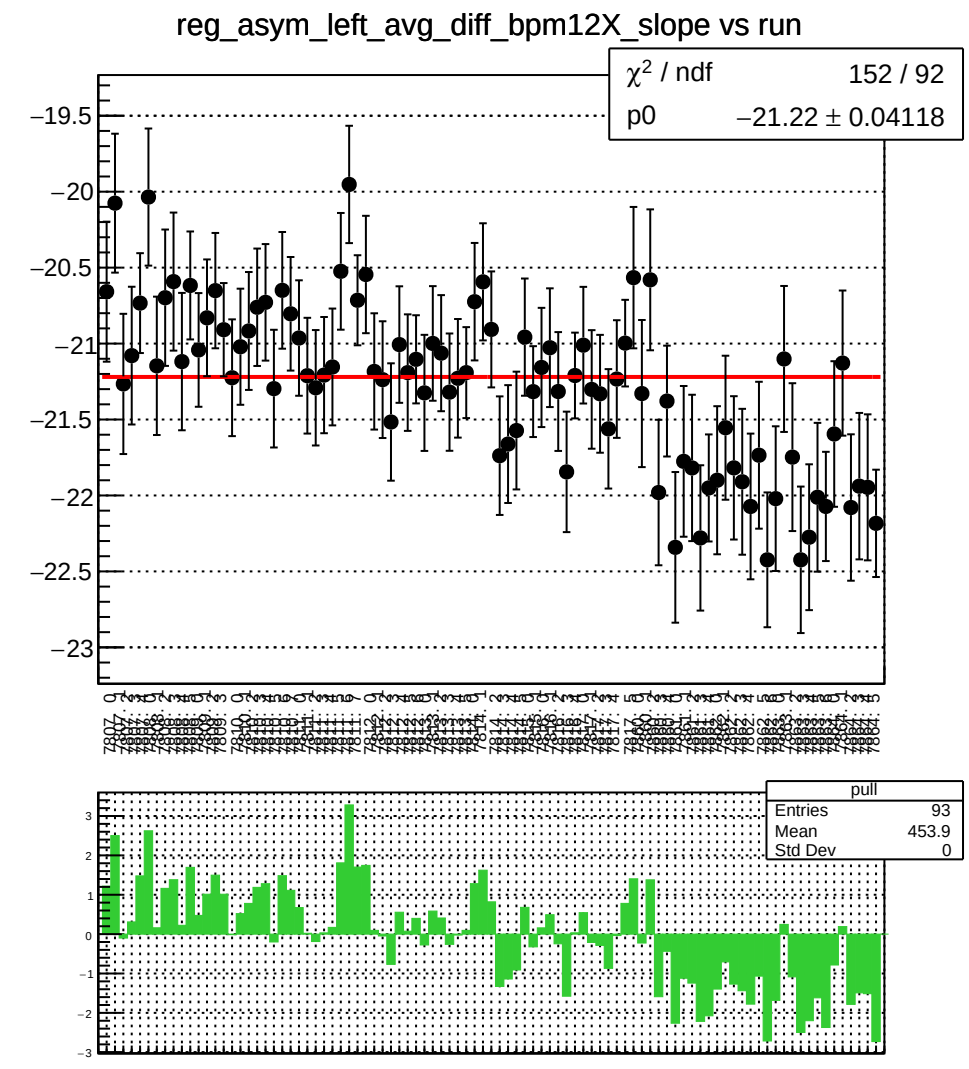

pull1D
Entries 93
Mean −0.001809
Std Dev 0.7026

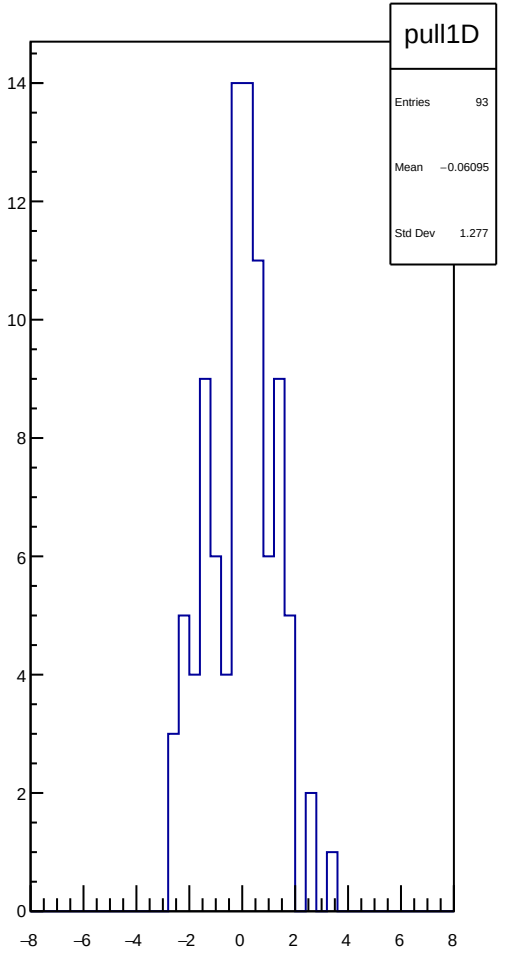

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 35.1 / 92
p0 −6.167 ± 1.108
pull
Entries 93
Mean 654.7
Std Dev 0

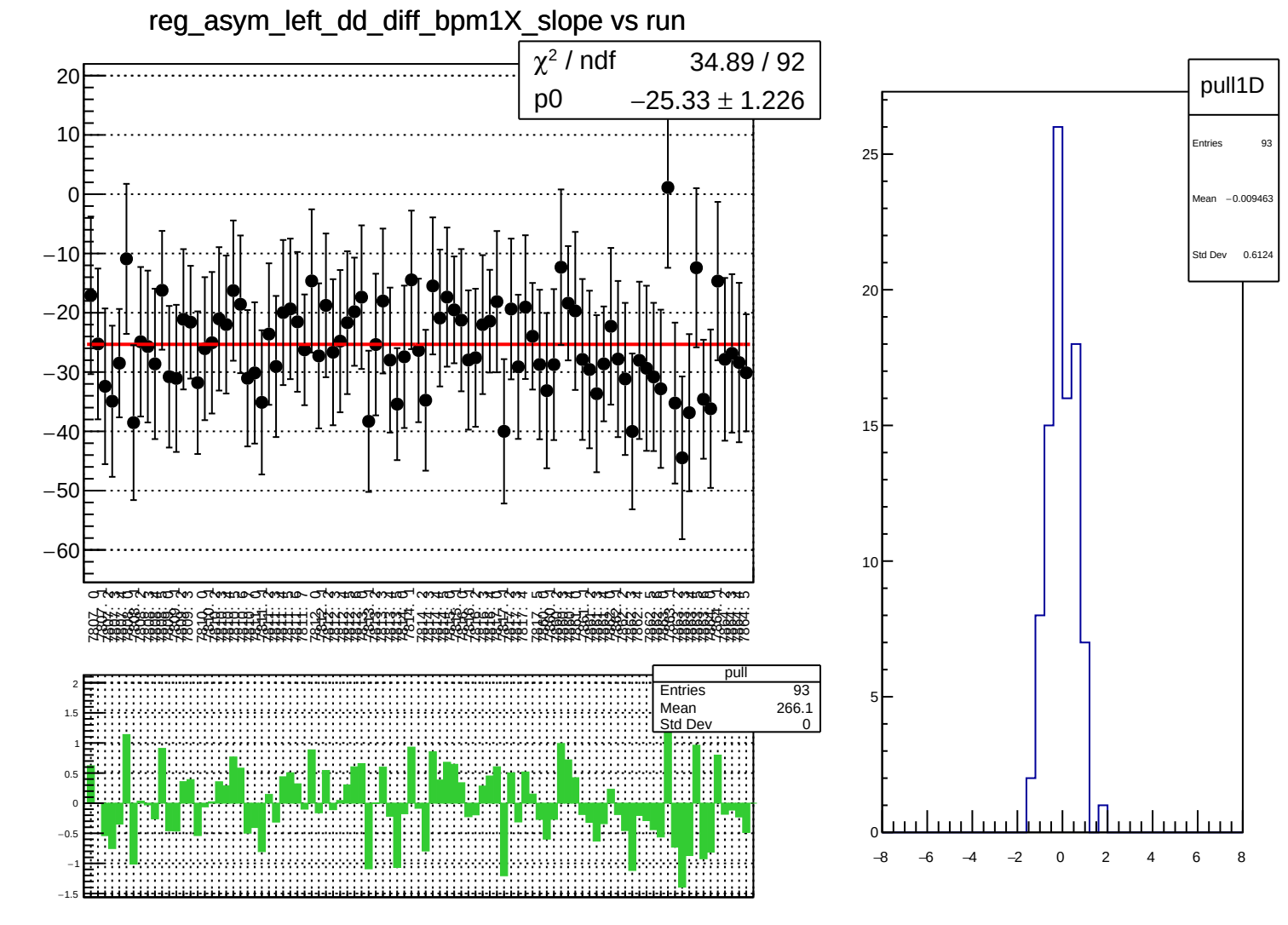

pull1D
Entries 93
Mean 0.008311
Std Dev 0.6143

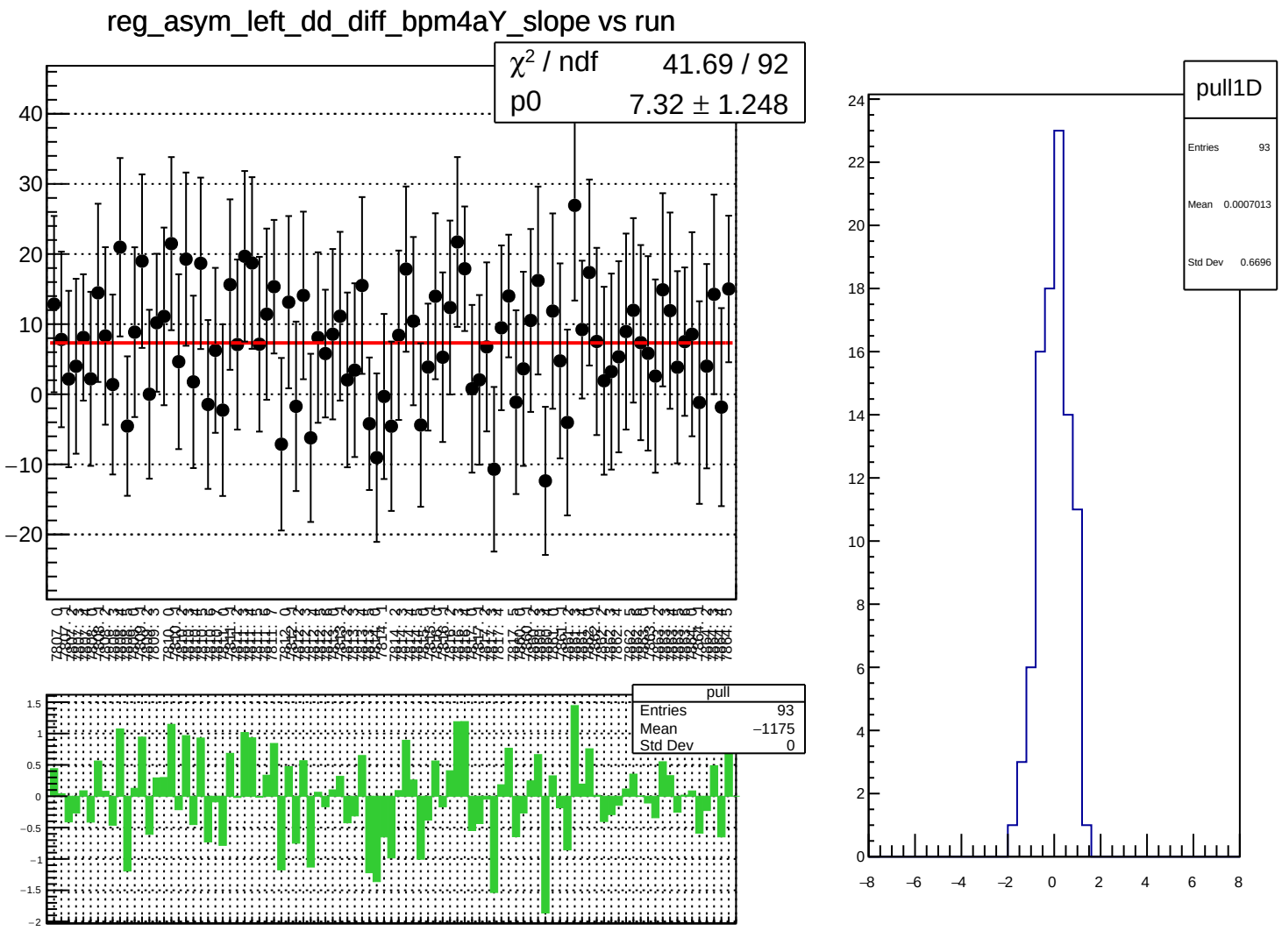

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 49.61 / 92
p0 5.604 ± 1.42
pull
Entries 93
Mean 352.9
Std Dev 0

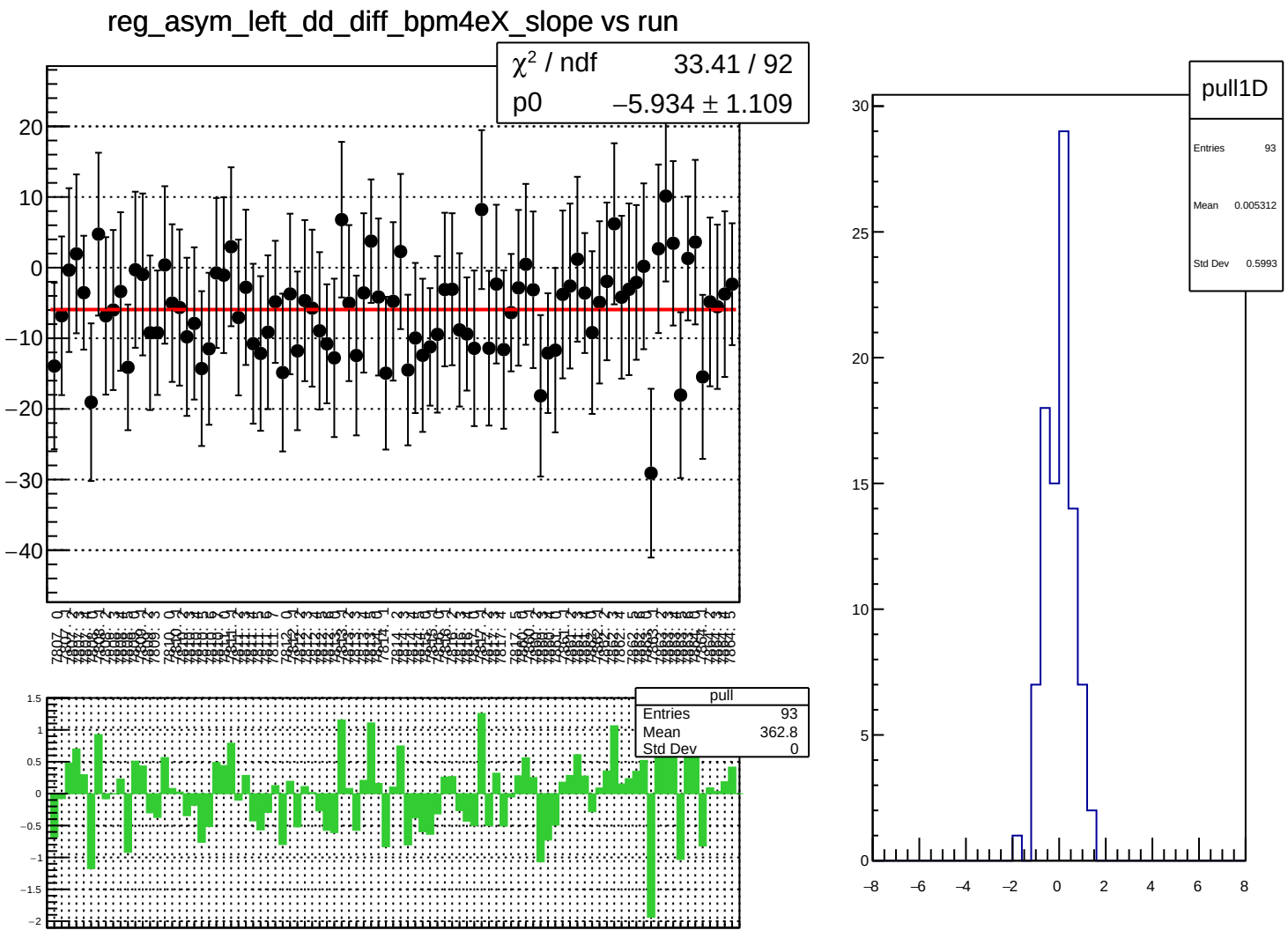

pull1D
Entries 93
Mean 0.01237
Std Dev 0.7303

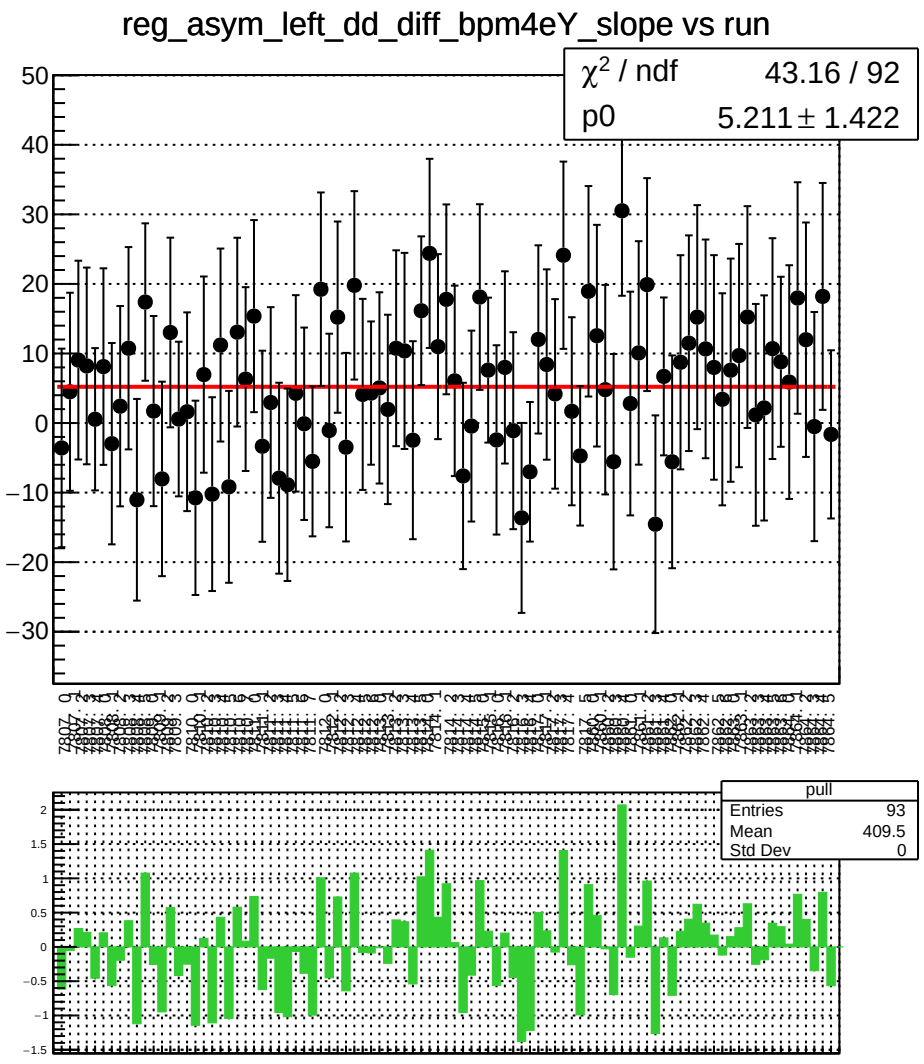

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 152 / 92
p0 −21.22 ± 0.04118
−19.5
−20
−20.5
−21
−21.5
−22
−22.5
−23
pull
Entries 93
Mean 453.9
Std Dev 0
3
2
1
0
−1
−2
−3

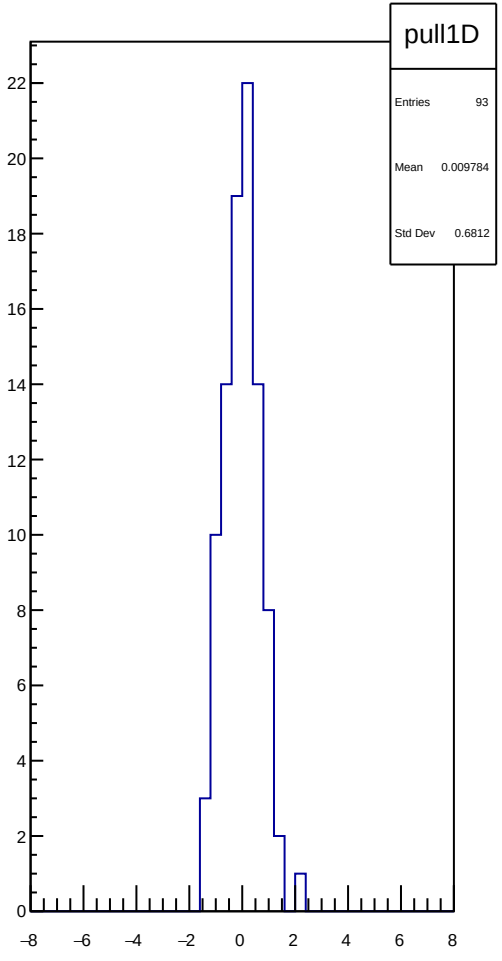

pull1D
Entries 93
Mean −0.06095
Std Dev 1.277
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

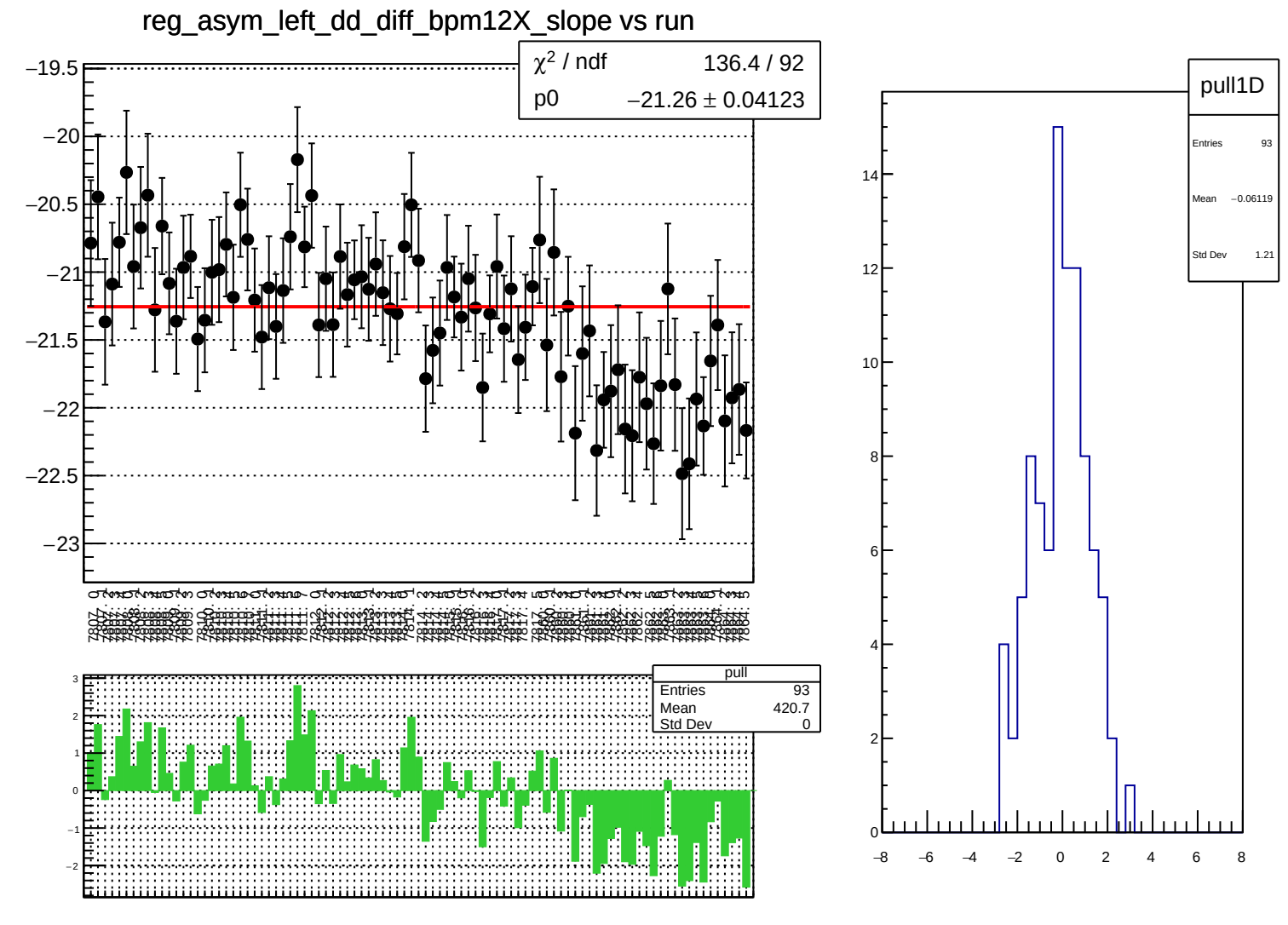

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 34.89 / 92
p0 −25.33 ± 1.226
pull
Entries 93
Mean 266.1
Std Dev 0
pull1D
Entries 93
Mean −0.009463
Std Dev 0.6124

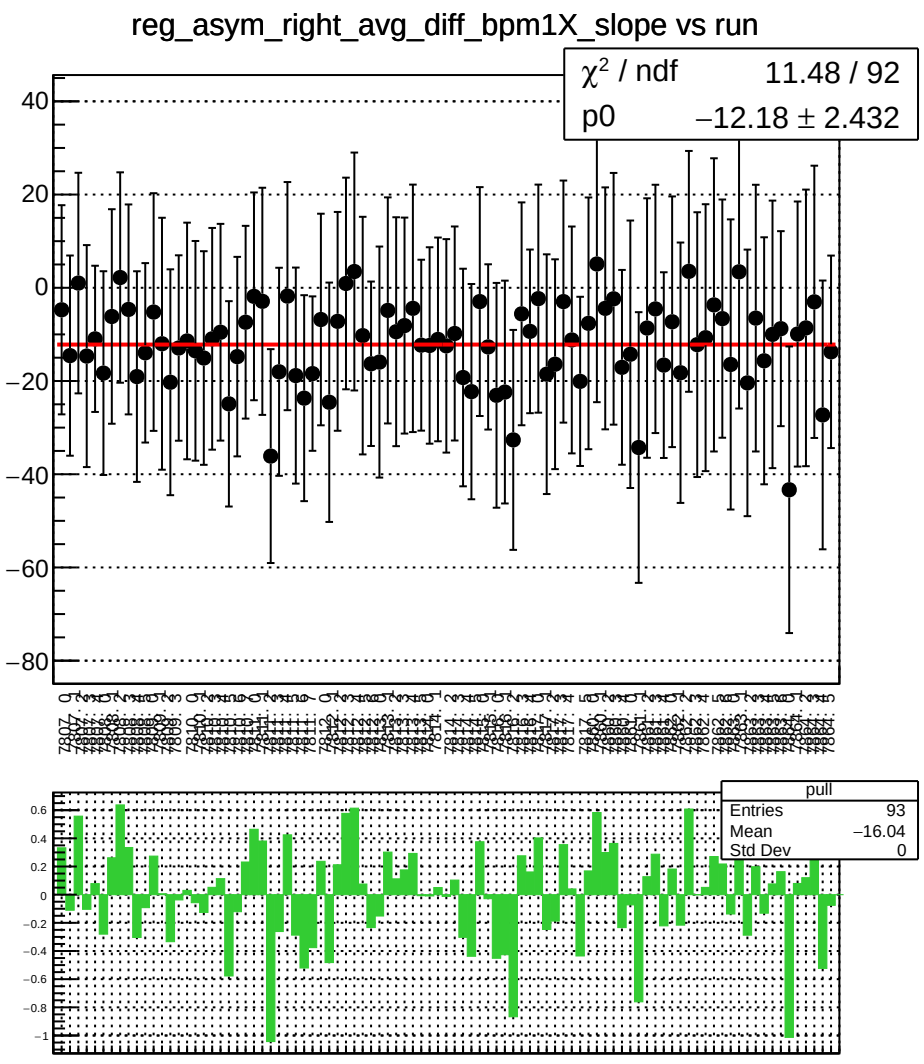

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 41.69 / 92
p0 7.32 ± 1.248
pull
Entries 93
Mean −1175
Std Dev 0
pull1D
Entries 93
Mean 0.0007013
Std Dev 0.6696

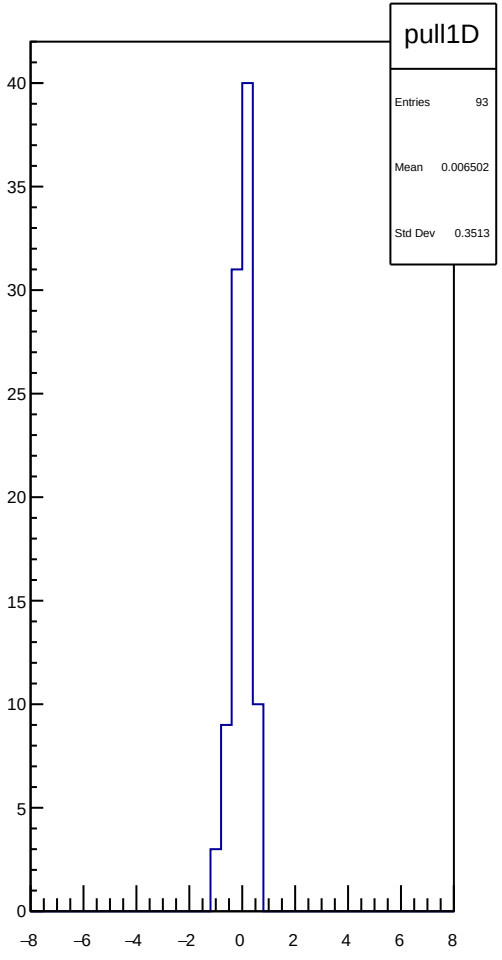

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 33.41 / 92
p0 −5.934 ± 1.109
pull
Entries 93
Mean 362.8
Std Dev 0
pull1D
Entries 93
Mean 0.005312
Std Dev 0.5993

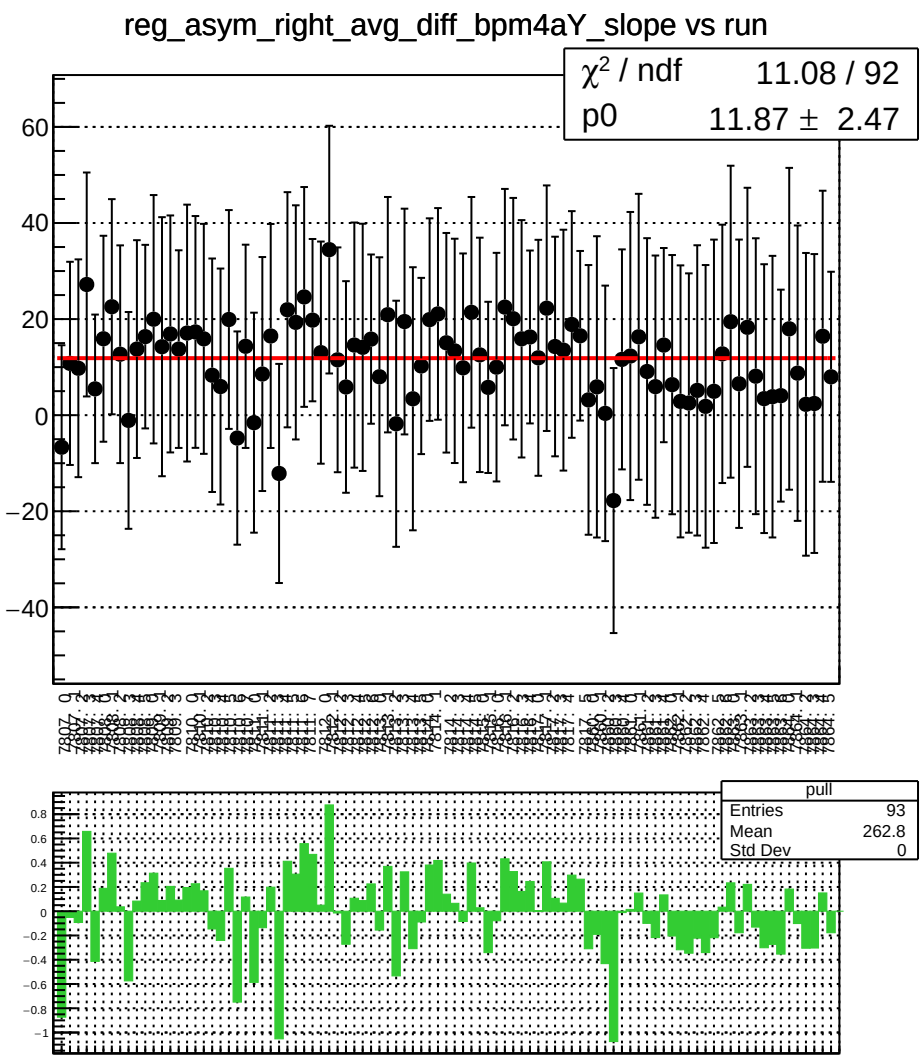

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 43.16 / 92
p0 5.211 ± 1.422
pull
Entries 93
Mean 409.5
Std Dev 0

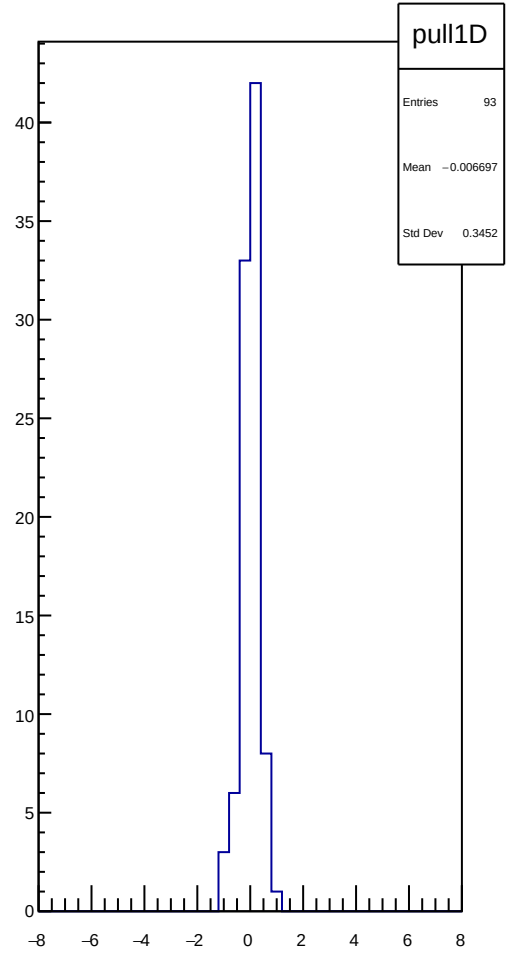

pull1D
Entries 93
Mean 0.009784
Std Dev 0.6812

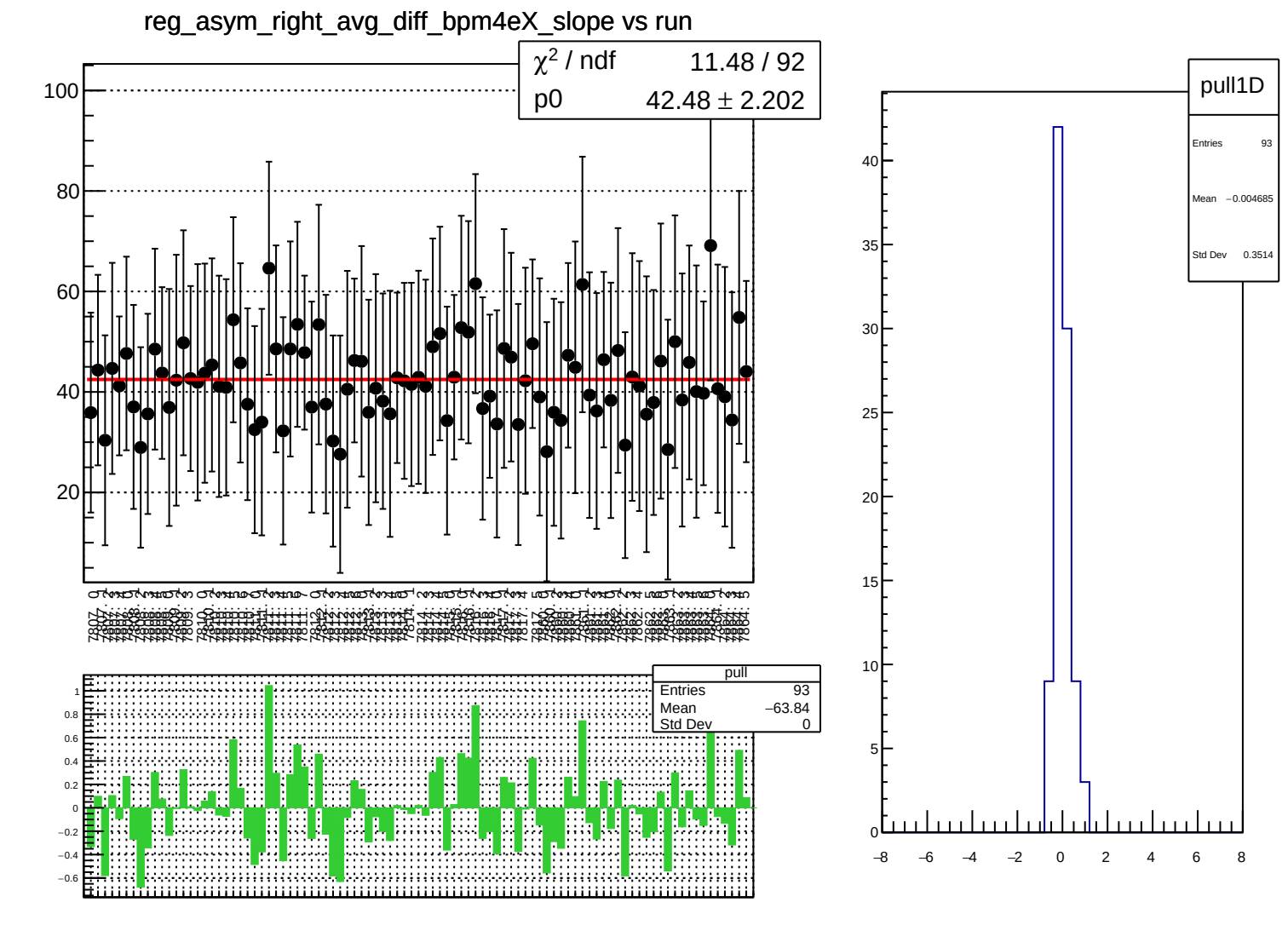

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 136.4 / 92
p0 −21.26 ± 0.04123
pull
Entries 93
Mean 420.7
Std Dev 0
pull1D
Entries 93
Mean −0.06119
Std Dev 1.21

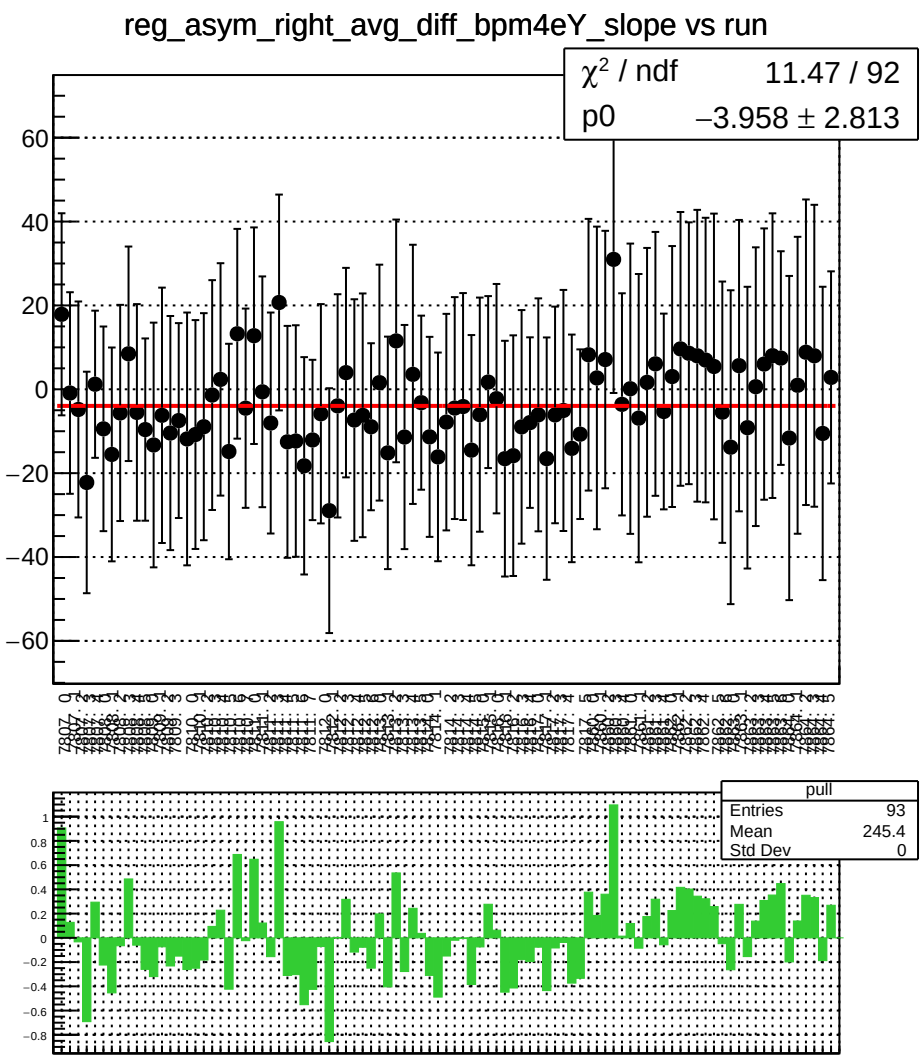

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 11.48 / 92
p0 −12.18 ± 2.432
pull
Entries 93
Mean −16.04
Std Dev 0

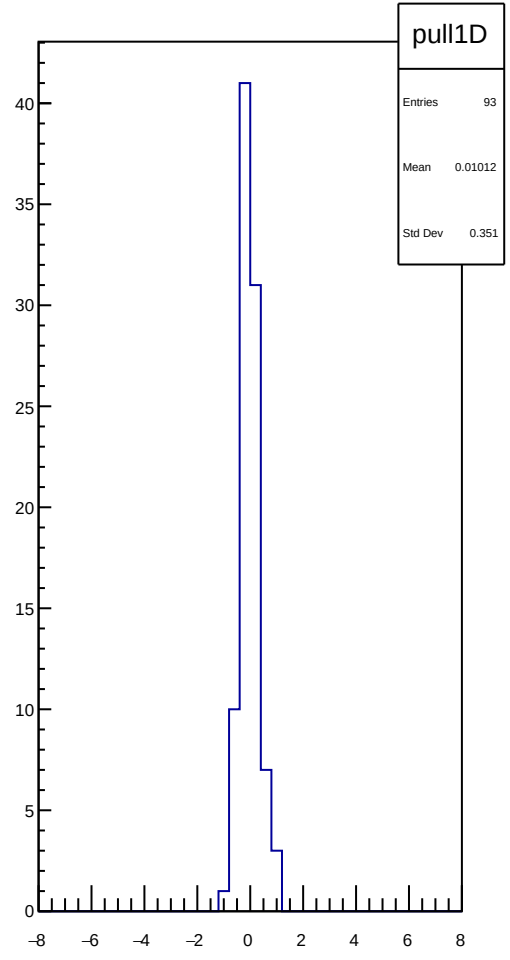

pull1D
Entries 93
Mean 0.006502
Std Dev 0.3513

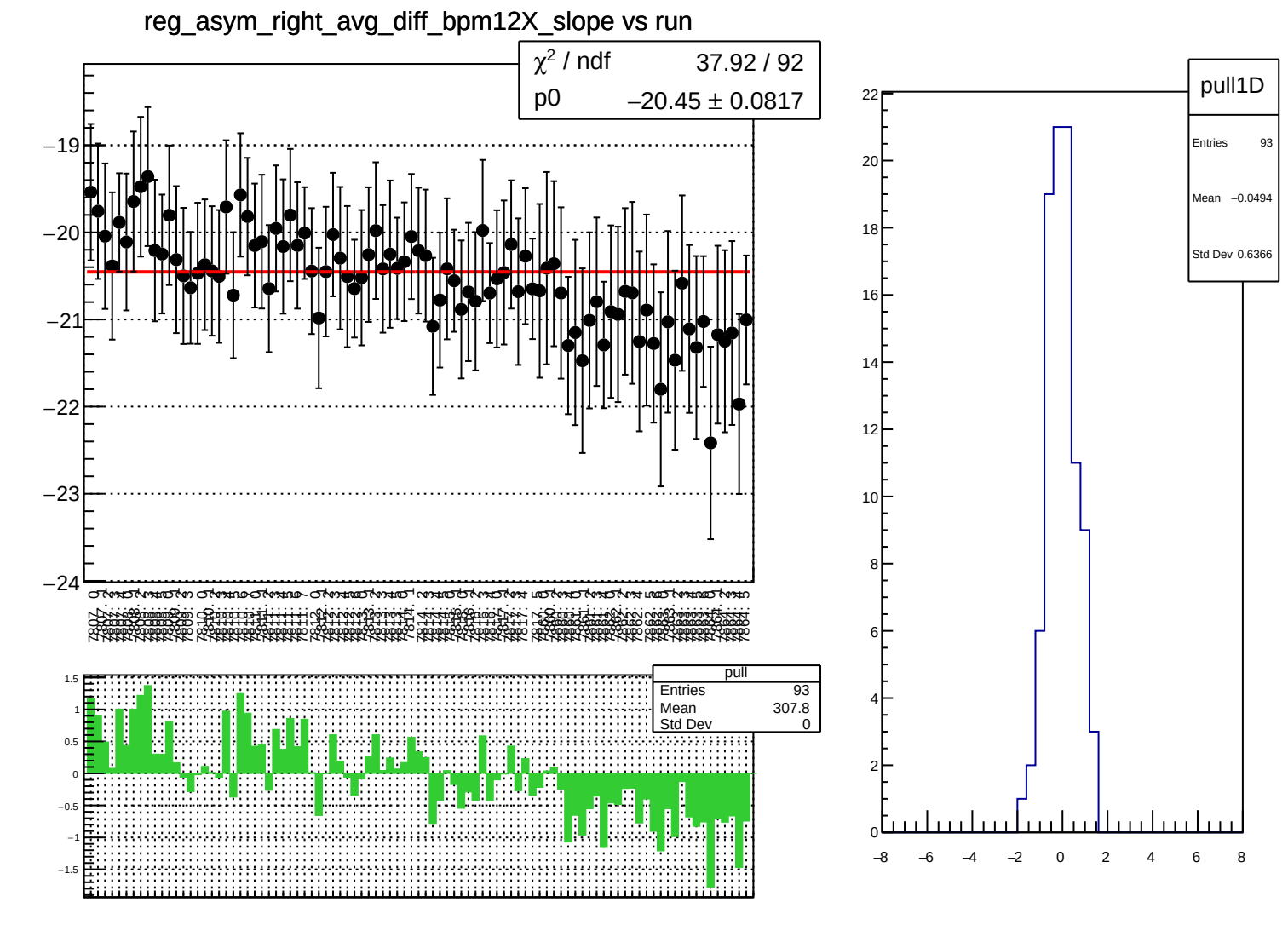

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.08 / 92
p0 11.87 ± 2.47
pull
Entries 93
Mean 262.8
Std Dev 0

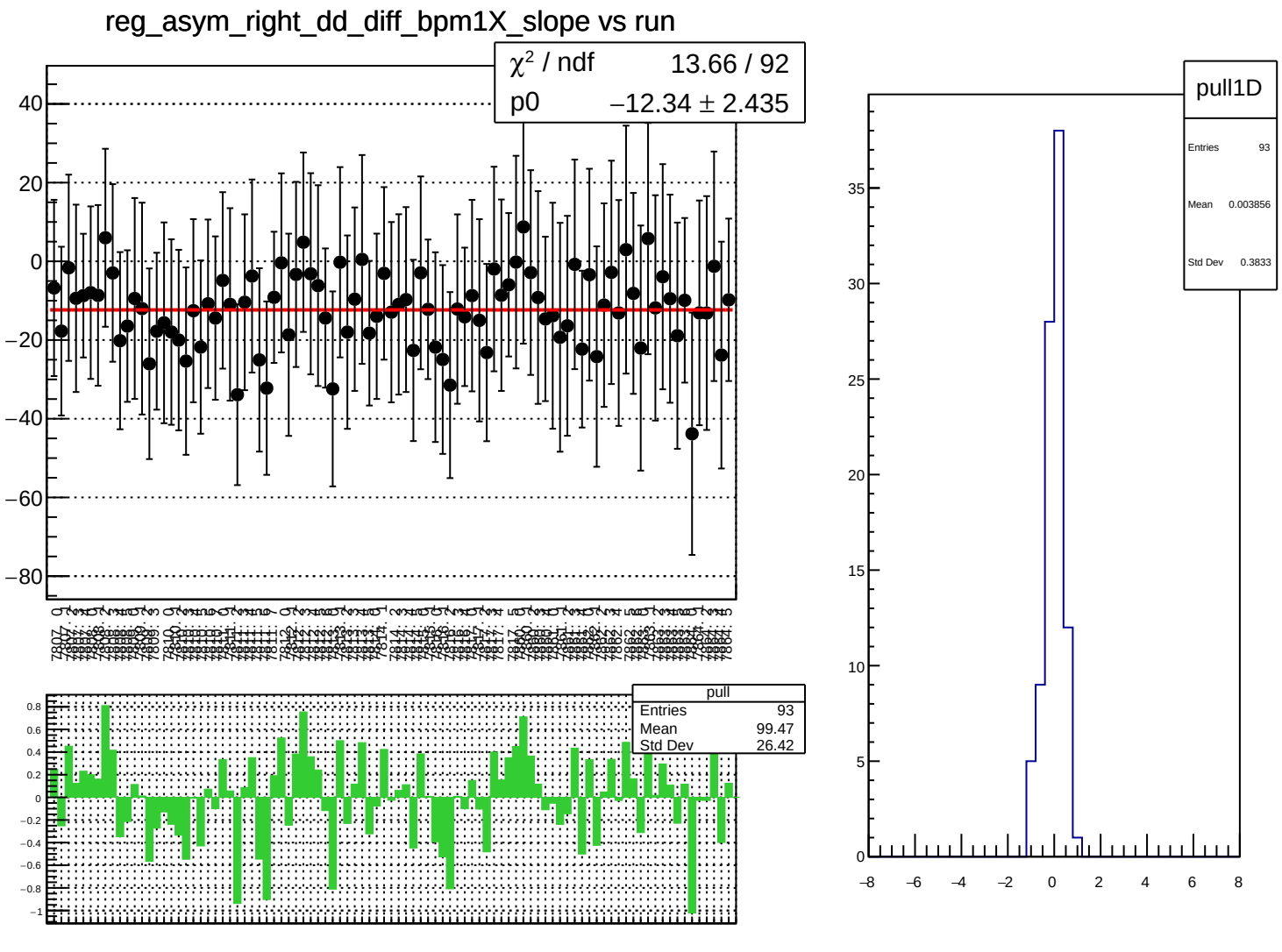

pull1D
Entries 93
Mean −0.006697
Std Dev 0.3452

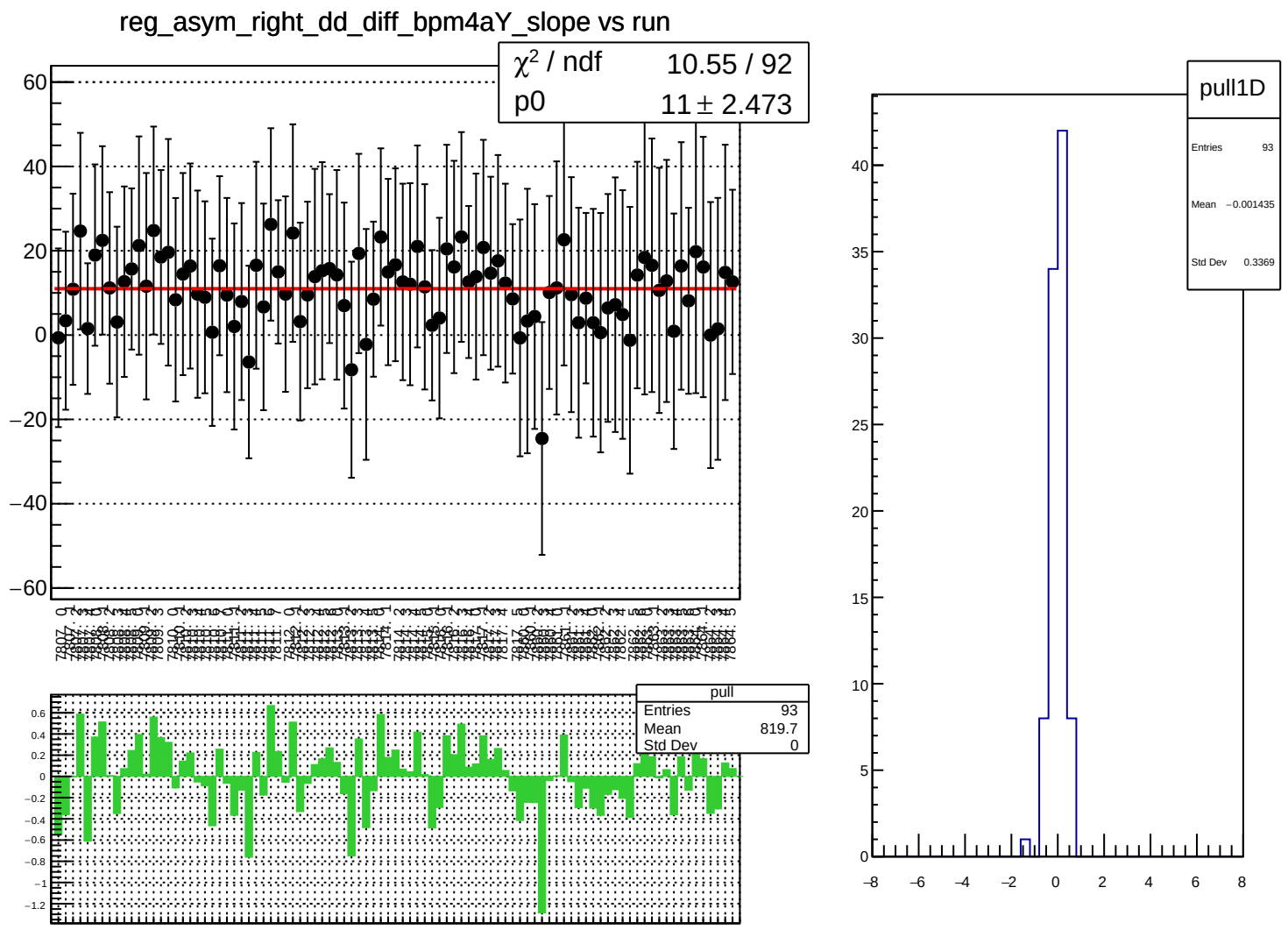

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 11.48 / 92
p0 42.48 ± 2.202
pull
Entries 93
Mean −63.84
Std Dev 0
pull1D
Entries 93
Mean −0.004685
Std Dev 0.3514

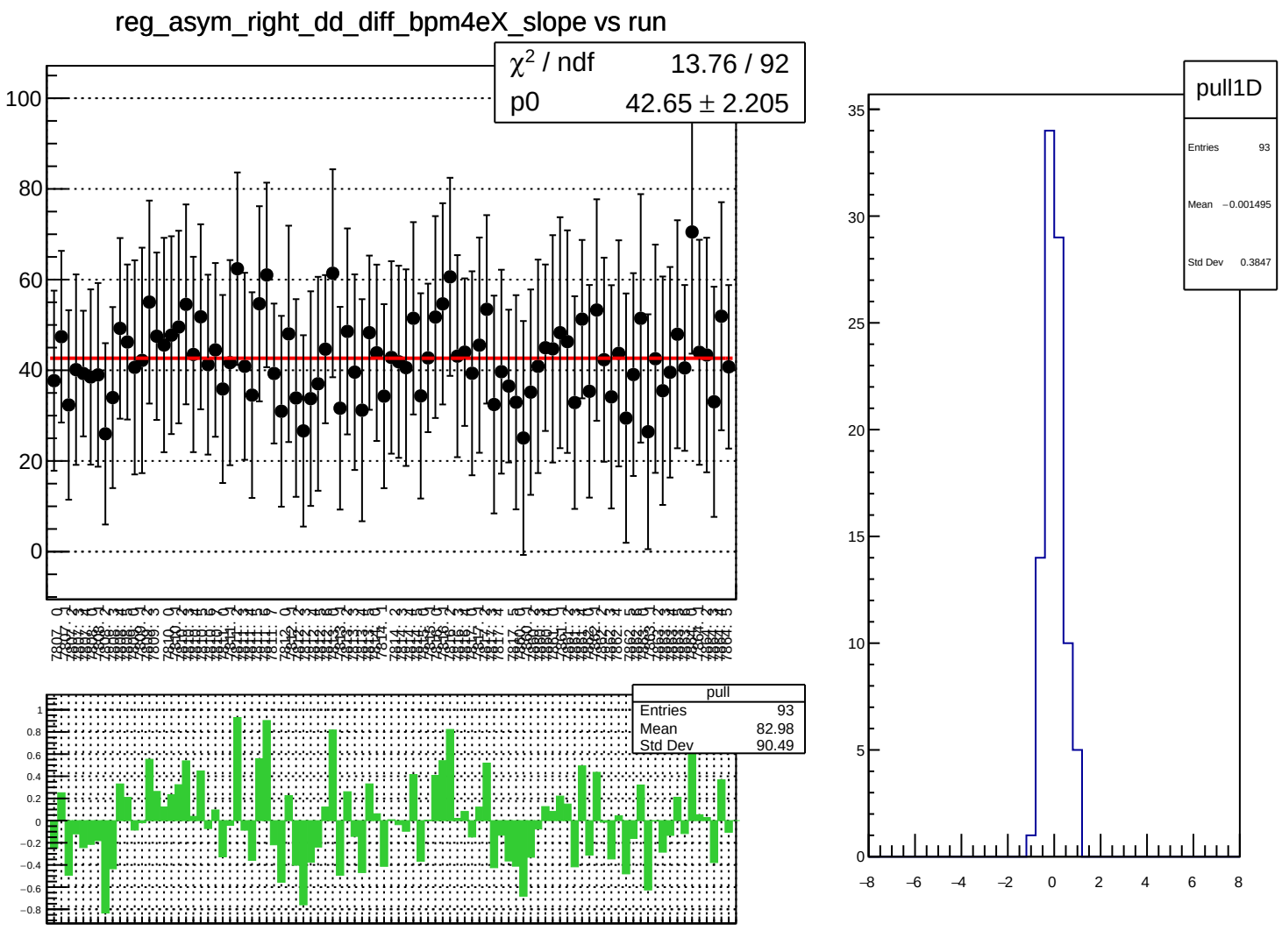

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 11.47 / 92
p0 −3.958 ± 2.813
pull
Entries 93
Mean 245.4
Std Dev 0

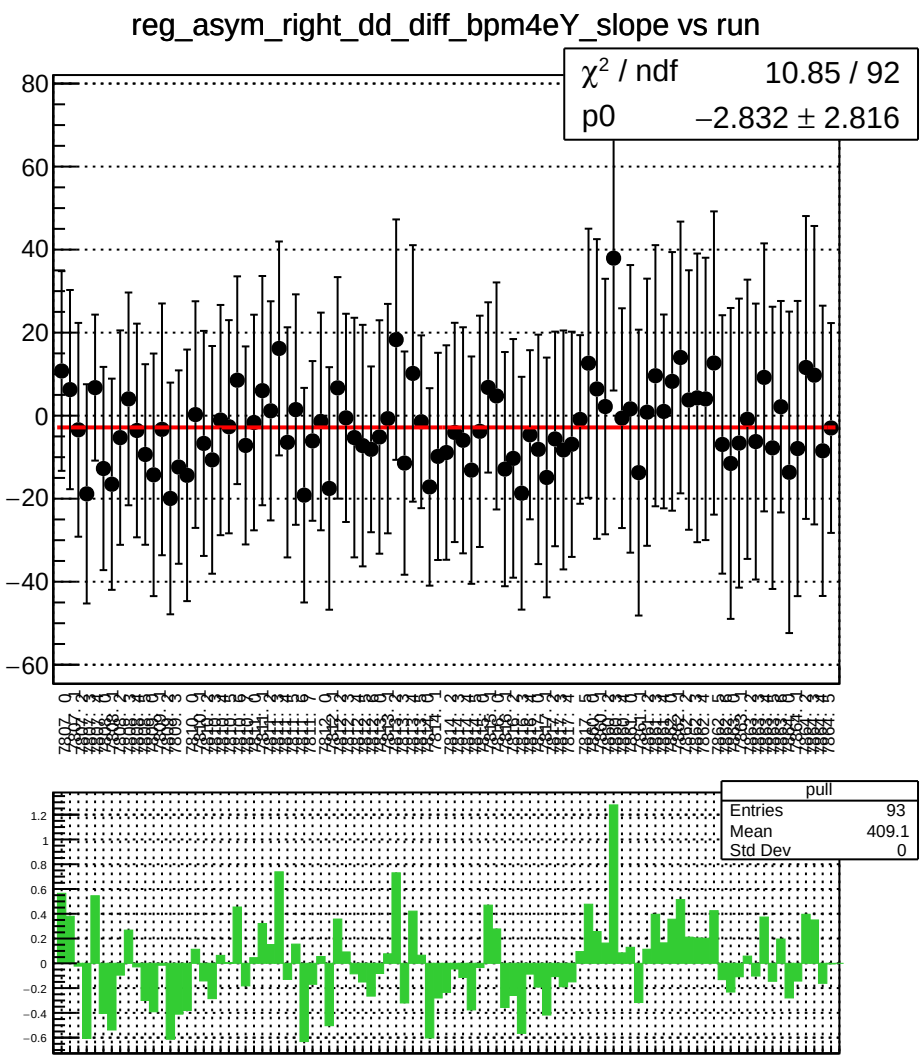

pull1D
Entries 93
Mean 0.01012
Std Dev 0.351

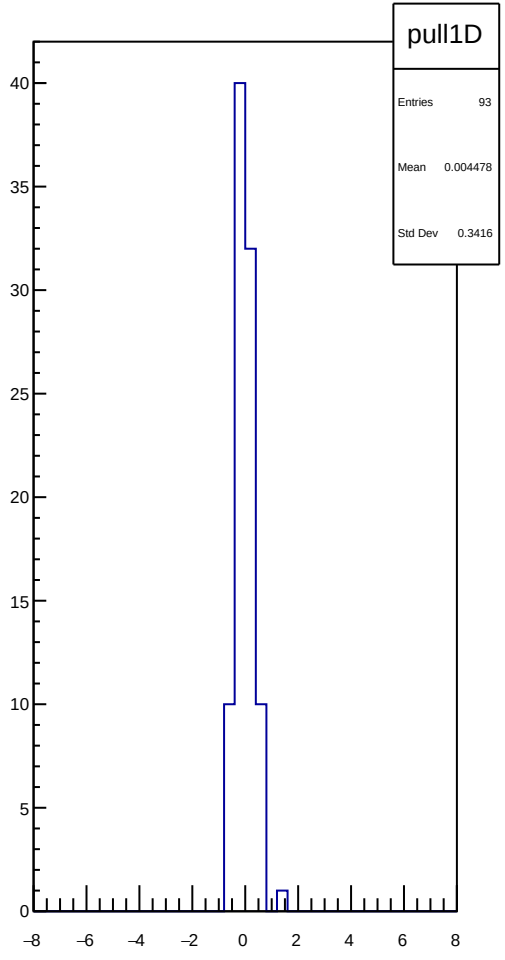

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 37.92 / 92
p0 −20.45 ± 0.0817
pull
Entries 93
Mean 307.8
Std Dev 0
pull1D
Entries 93
Mean −0.0494
Std Dev 0.6366

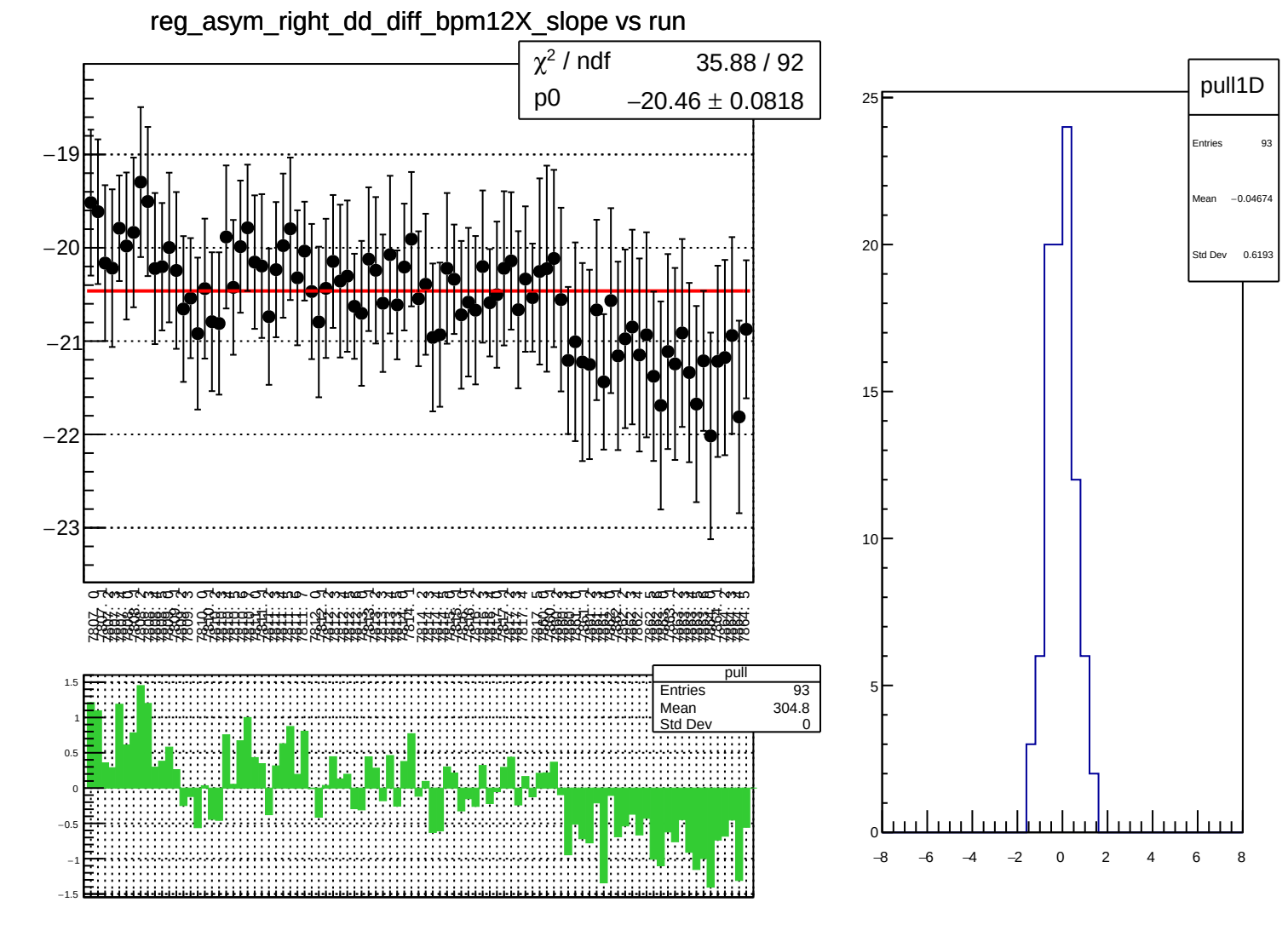

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 13.66 / 92
p0 −12.34 ± 2.435
pull
Entries 93
Mean 99.47
Std Dev 26.42
pull1D
Entries 93
Mean 0.003856
Std Dev 0.3833

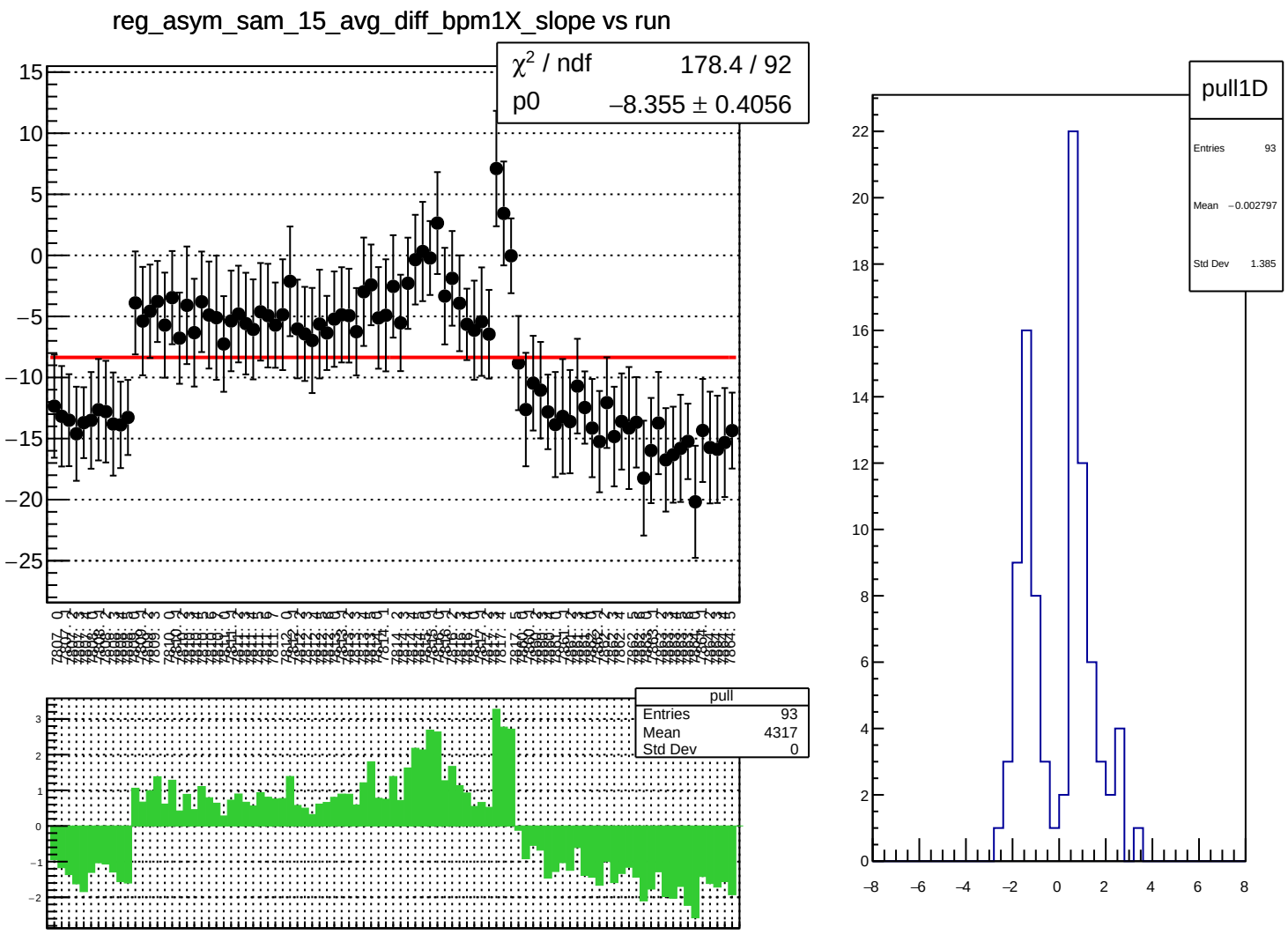

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.55 / 92
p0 11 ± 2.473
pull
Entries 93
Mean 819.7
Std Dev 0
pull1D
Entries 93
Mean −0.001435
Std Dev 0.3369

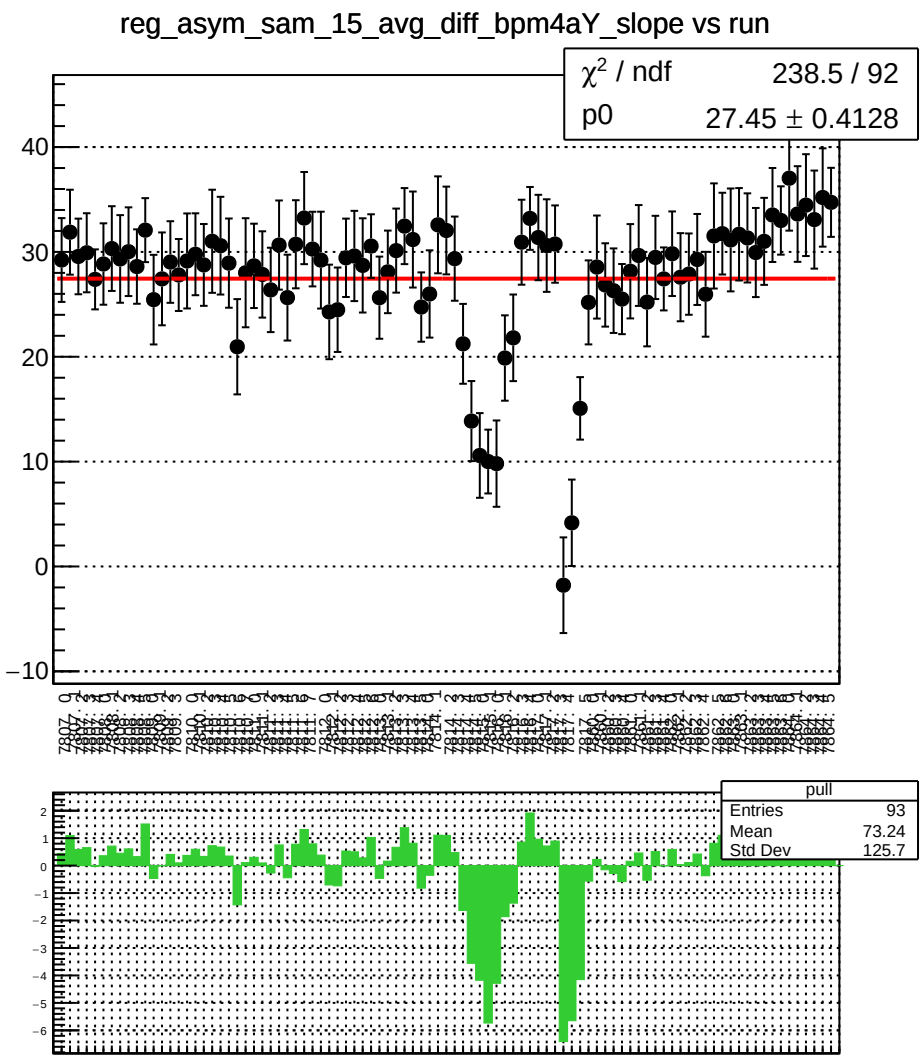

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 13.76 / 92
p0 42.65 ± 2.205
pull
Entries 93
Mean 82.98
Std Dev 90.49
pull1D
Entries 93
Mean −0.001495
Std Dev 0.3847

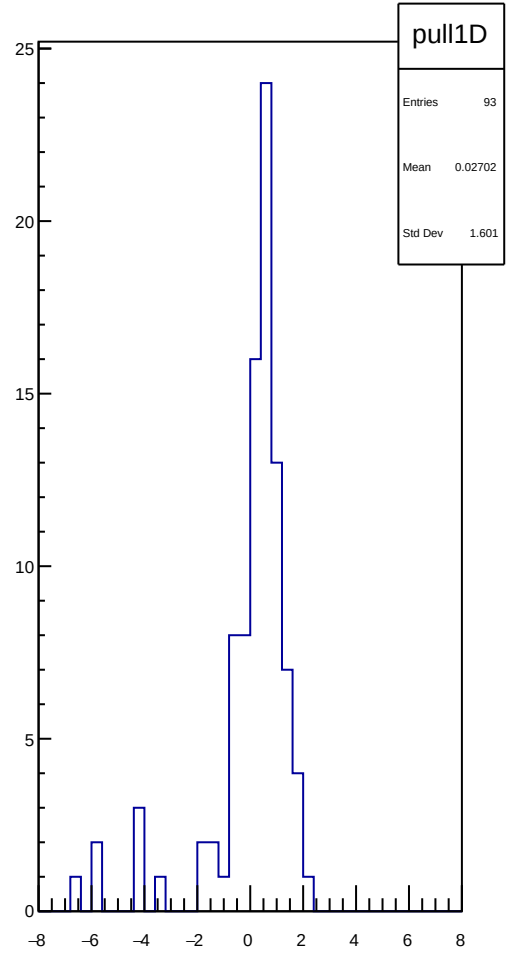

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.85 / 92
p0 −2.832 ± 2.816
pull
Entries 93
Mean 409.1
Std Dev 0

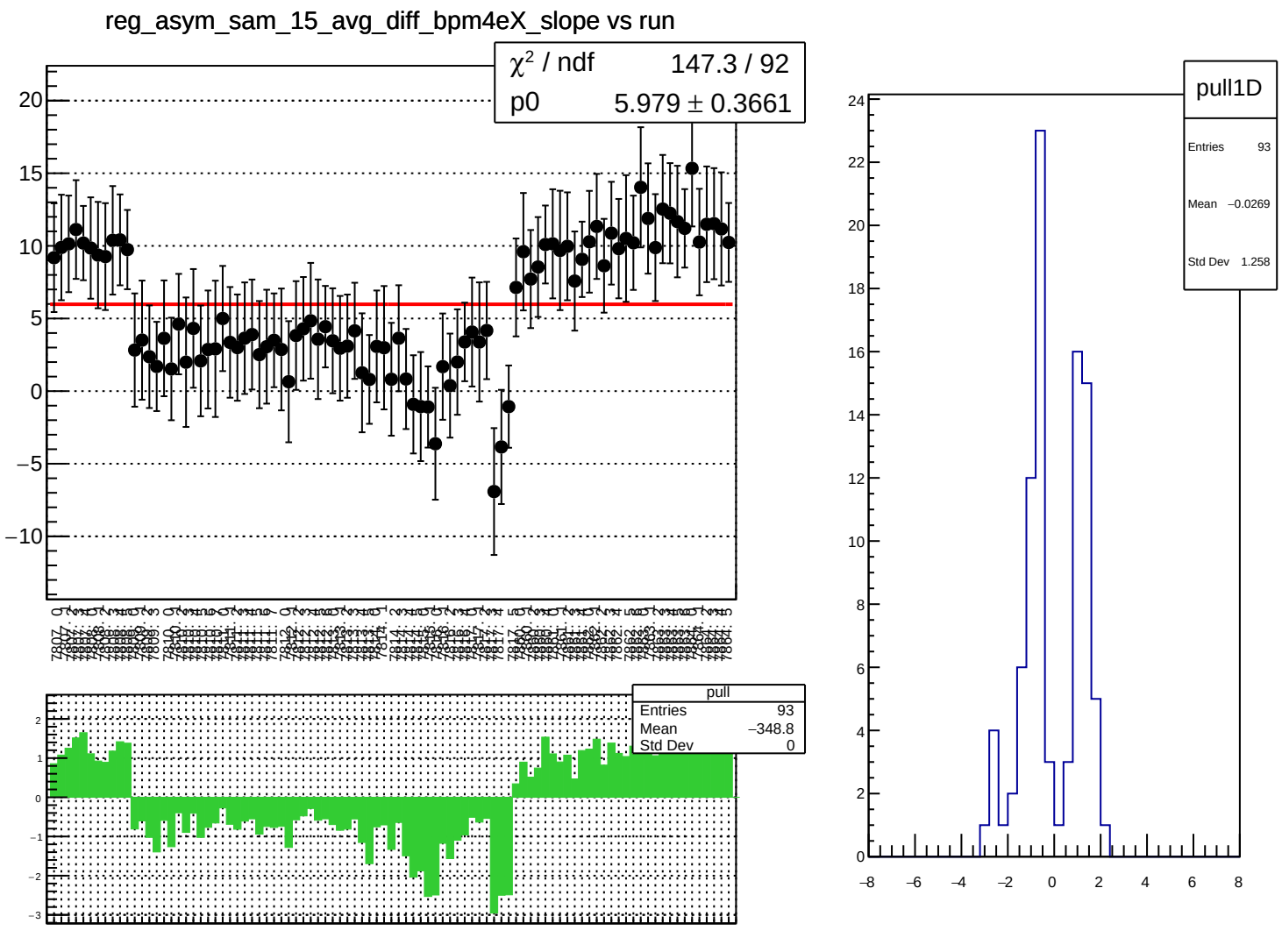

pull1D
Entries 93
Mean 0.004478
Std Dev 0.3416

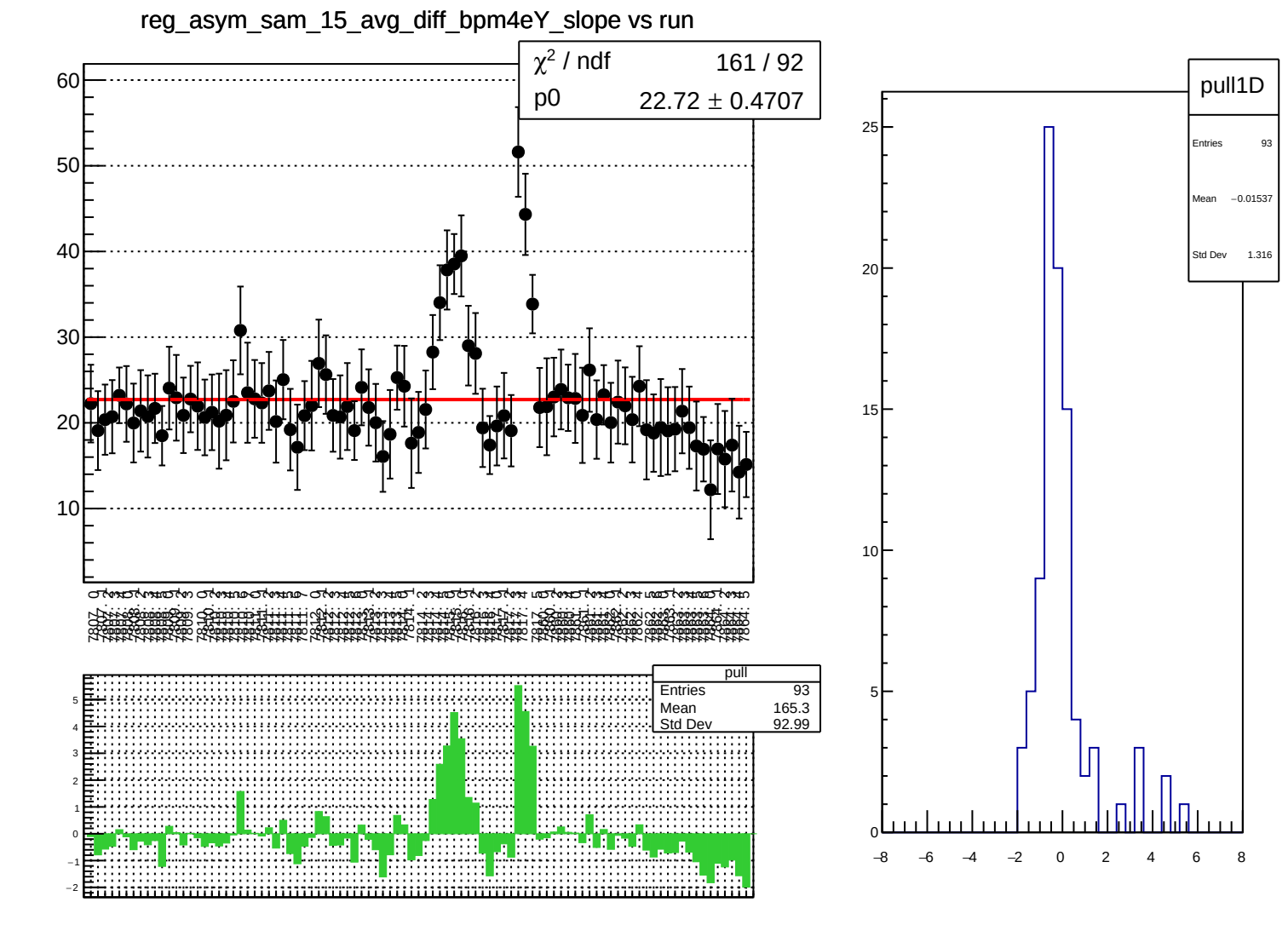

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 35.88 / 92
p0 −20.46 ± 0.0818
pull
Entries 93
Mean 304.8
Std Dev 0
pull1D
Entries 93
Mean −0.04674
Std Dev 0.6193

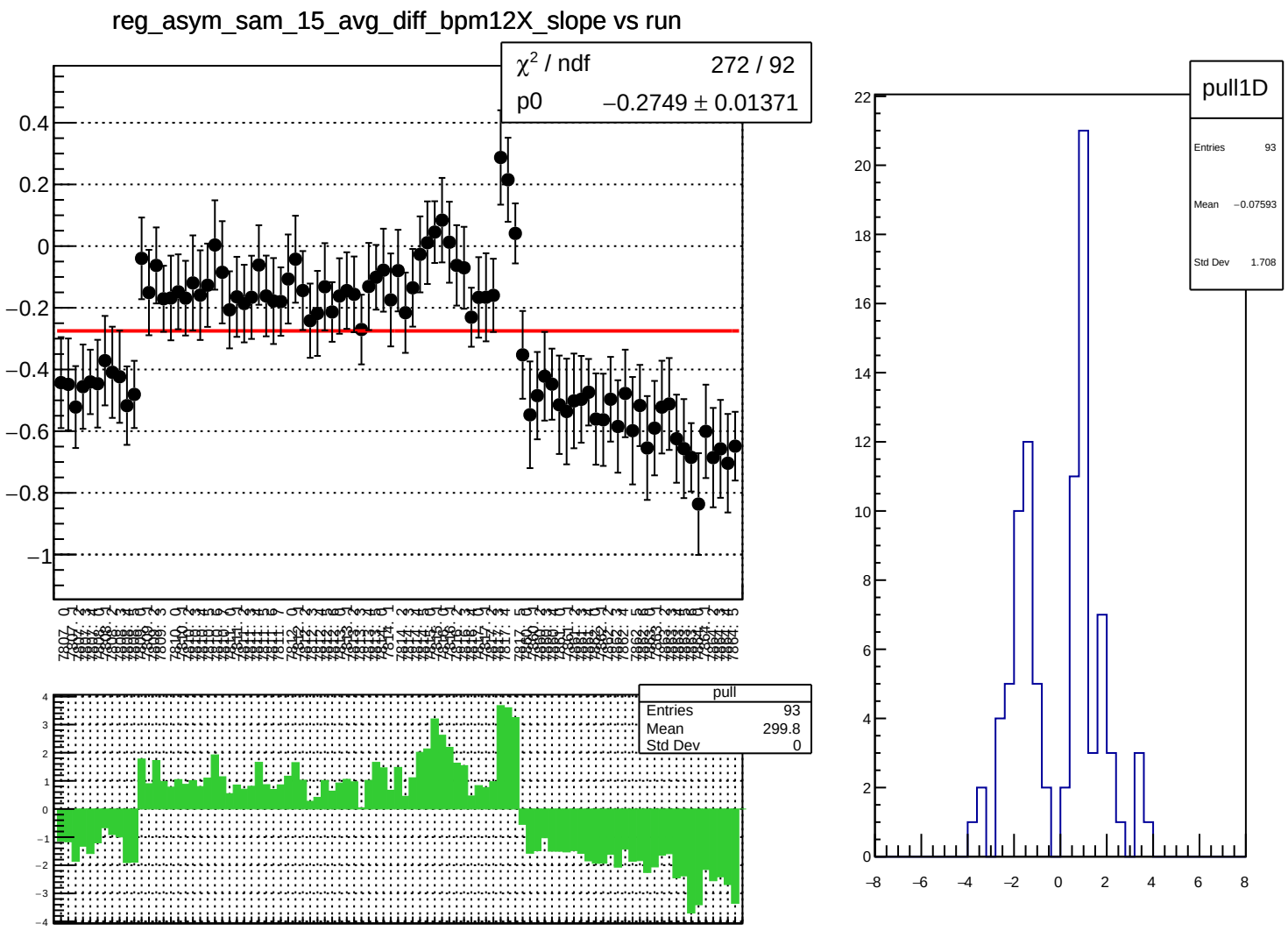

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 178.4 / 92
p0 −8.355 ± 0.4056
pull
Entries 93
Mean 4317
Std Dev 0
pull1D
Entries 93
Mean −0.002797
Std Dev 1.385

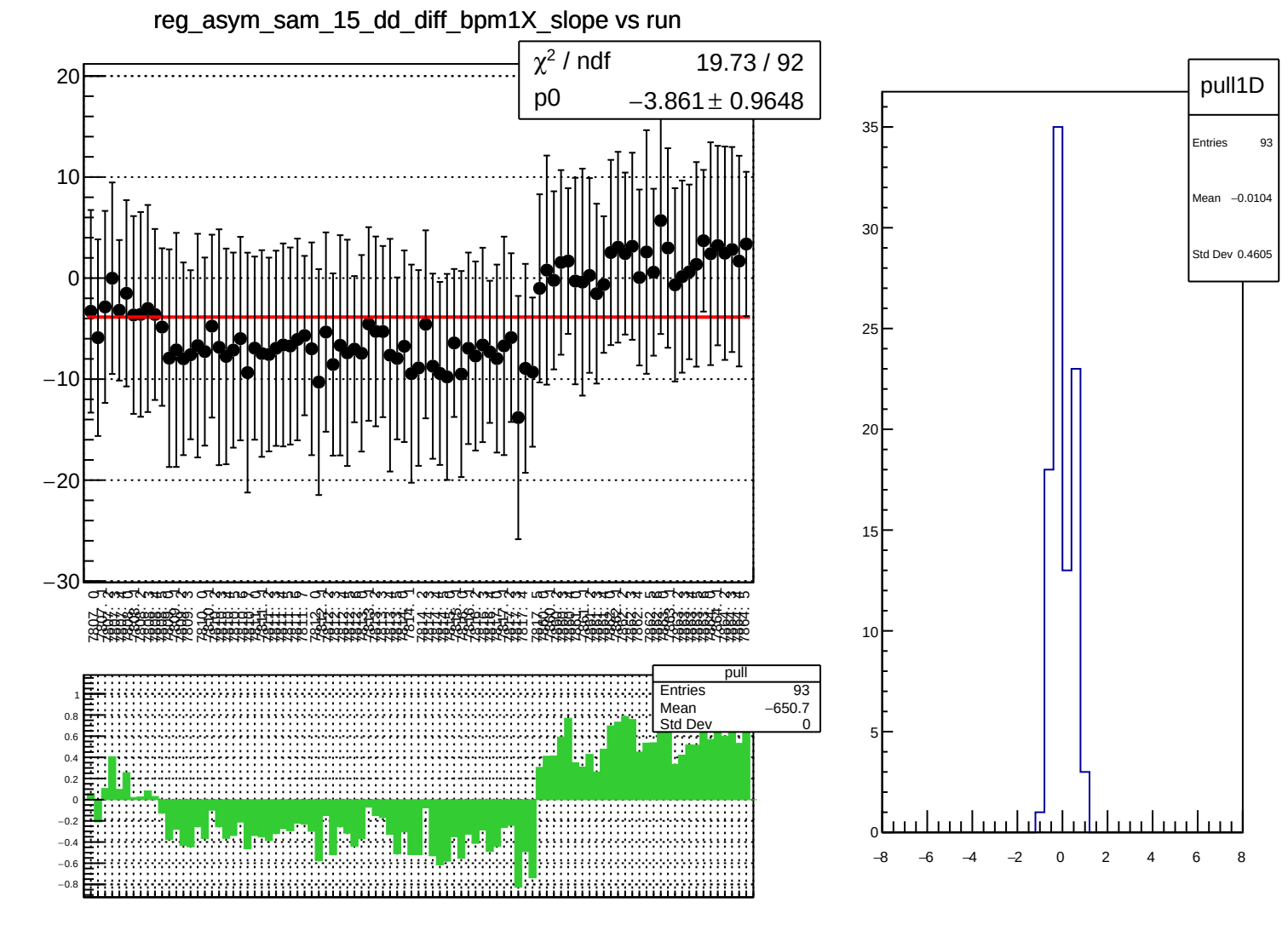

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 238.5 / 92
p0 27.45 ± 0.4128
pull
Entries 93
Mean 73.24
Std Dev 125.7

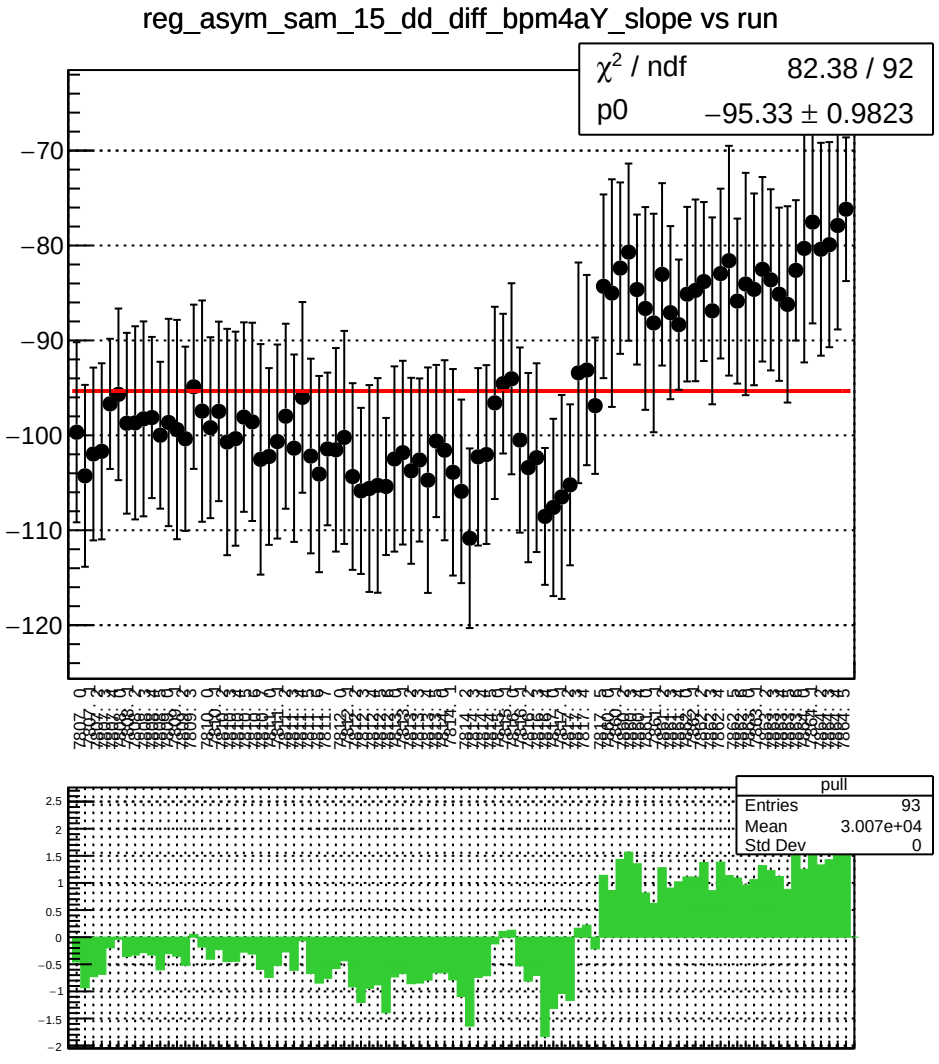

pull1D
Entries 93
Mean 0.02702
Std Dev 1.601

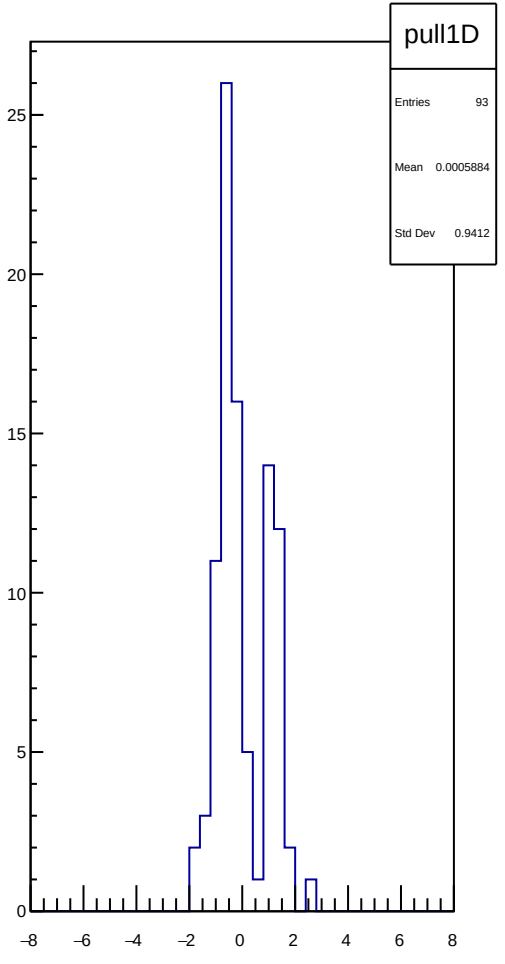

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 147.3 / 92
p0 5.979 ± 0.3661
pull
Entries 93
Mean −348.8
Std Dev 0
pull1D
Entries 93
Mean −0.0269
Std Dev 1.258

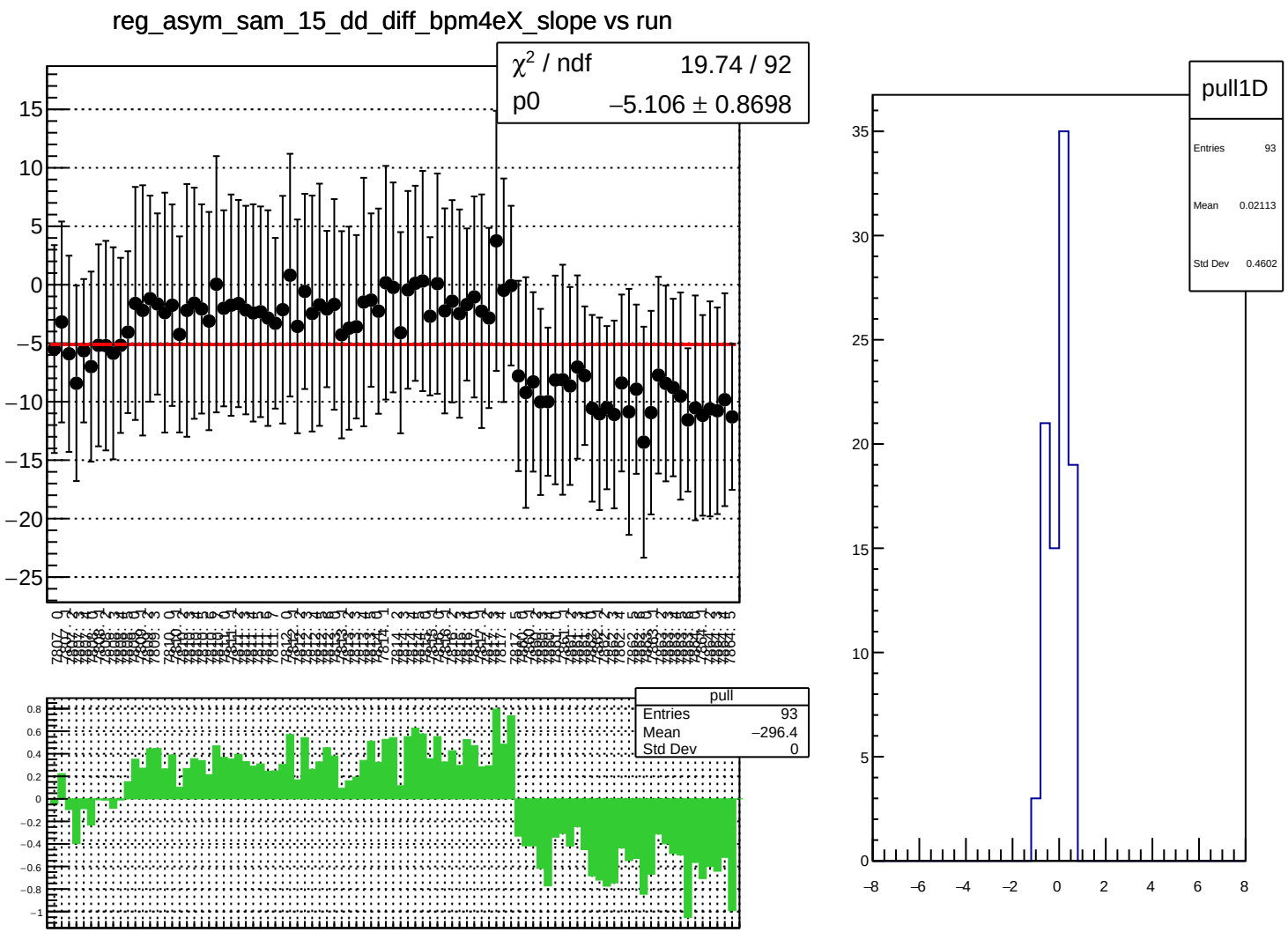

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 161 / 92
p0 22.72 ± 0.4707
pull
Entries 93
Mean 165.3
Std Dev 92.99
pull1D
Entries 93
Mean −0.01537
Std Dev 1.316

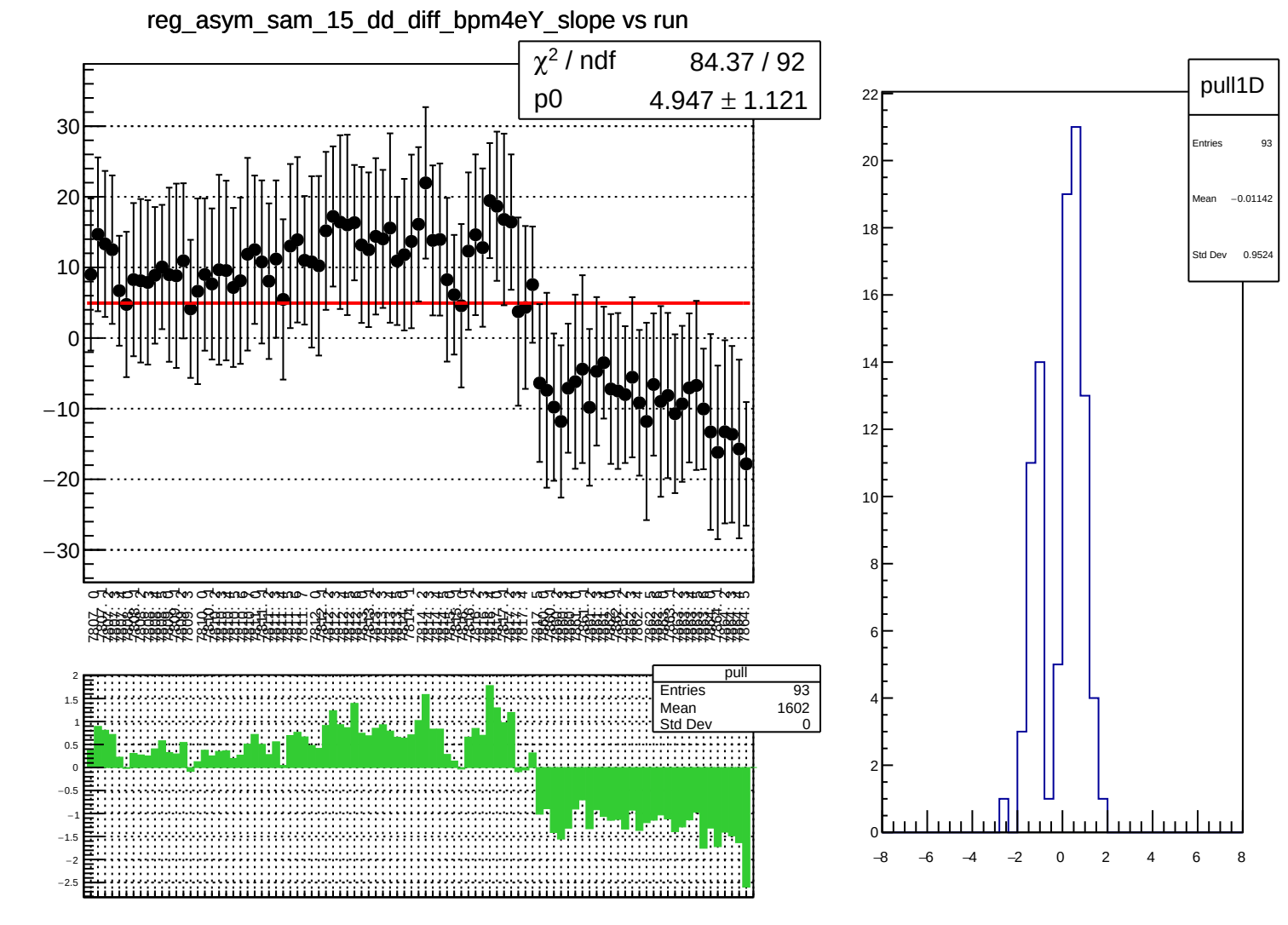

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 272 / 92
p0 −0.2749 ± 0.01371
pull
Entries 93
Mean 299.8
Std Dev 0
pull1D
Entries 93
Mean −0.07593
Std Dev 1.708

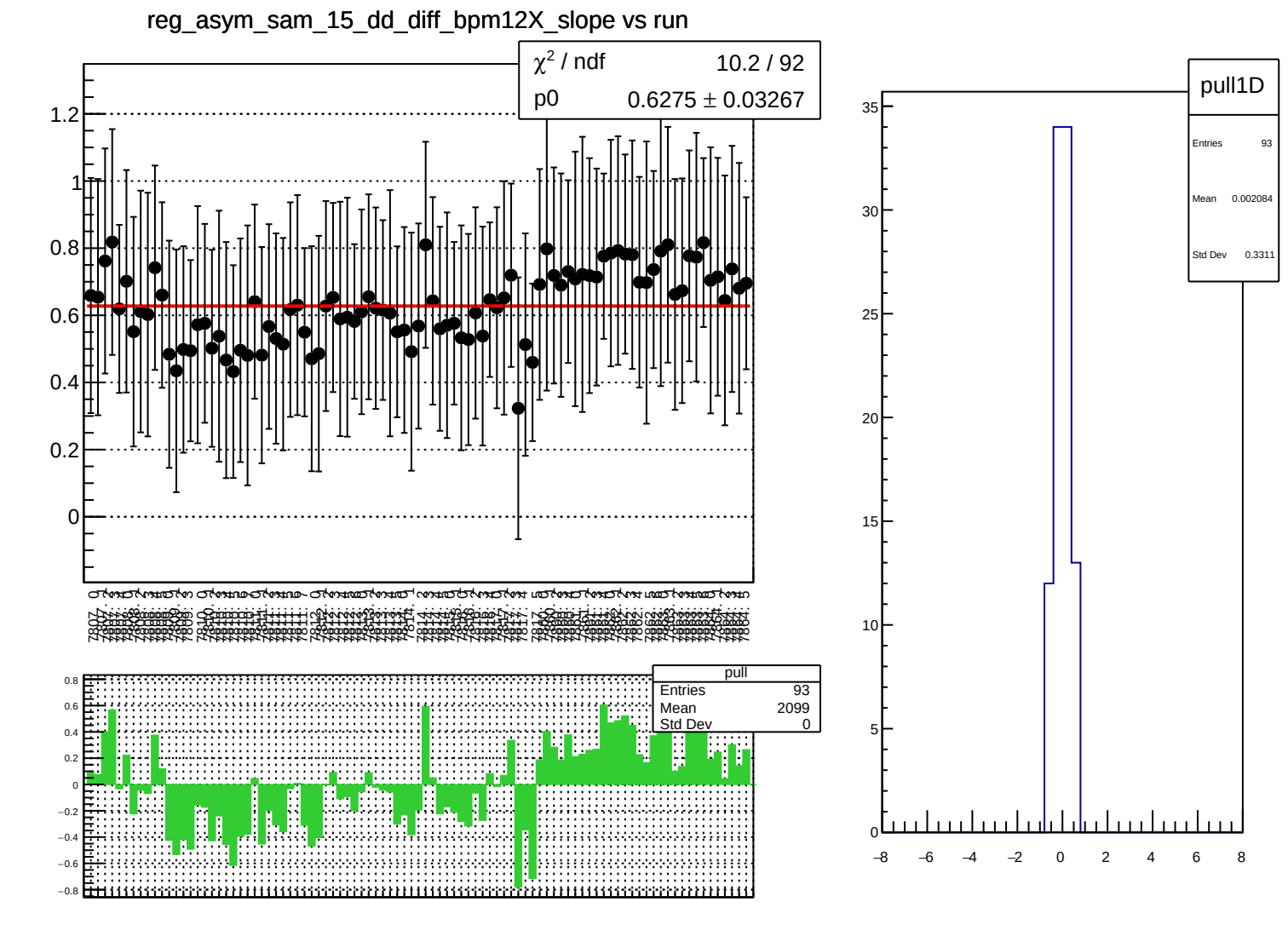

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 19.73 / 92
p0 −3.861 ± 0.9648
pull
Entries 93
Mean −650.7
Std Dev 0
pull1D
Entries 93
Mean −0.0104
Std Dev 0.4605

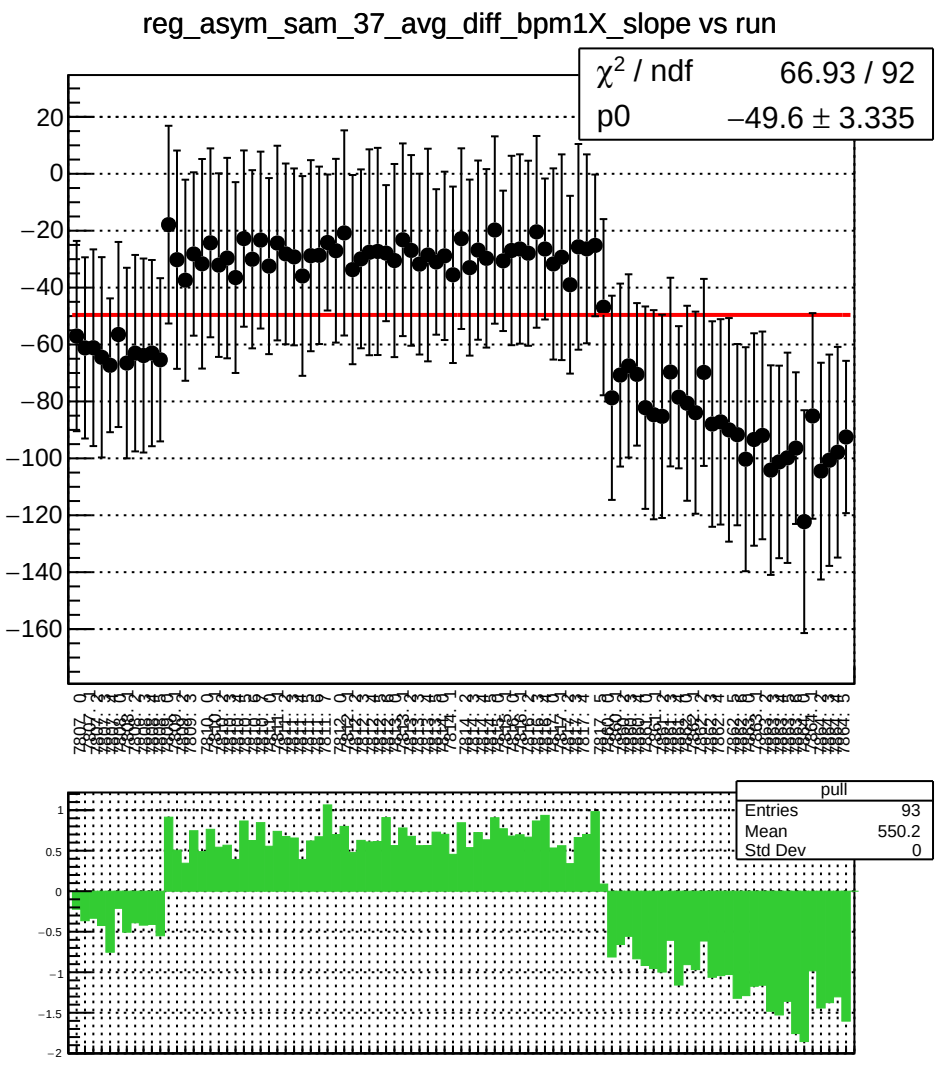

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 82.38 / 92
p0 −95.33 ± 0.9823
−70
−80
−90
−100
−110
−120
pull
Entries 93
Mean 3.007e+04
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

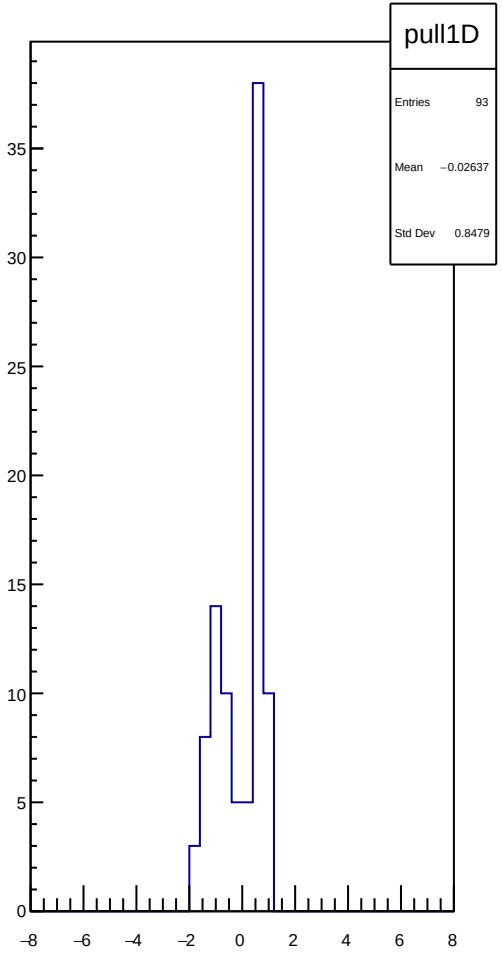

pull1D
Entries 93
Mean 0.0005884
Std Dev 0.9412
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

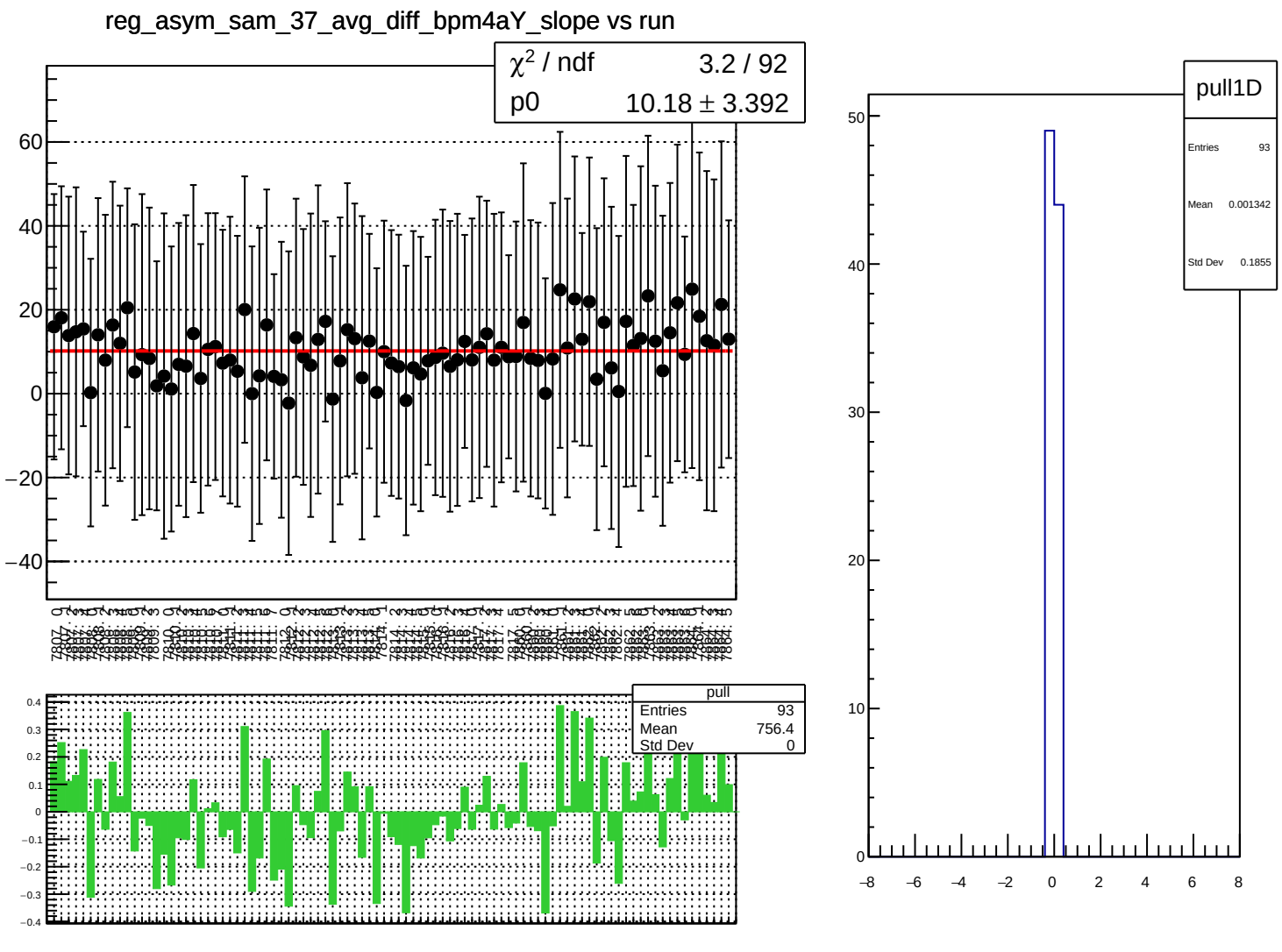

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 19.74 / 92
p0 −5.106 ± 0.8698
pull
Entries 93
Mean −296.4
Std Dev 0
pull1D
Entries 93
Mean 0.02113
Std Dev 0.4602

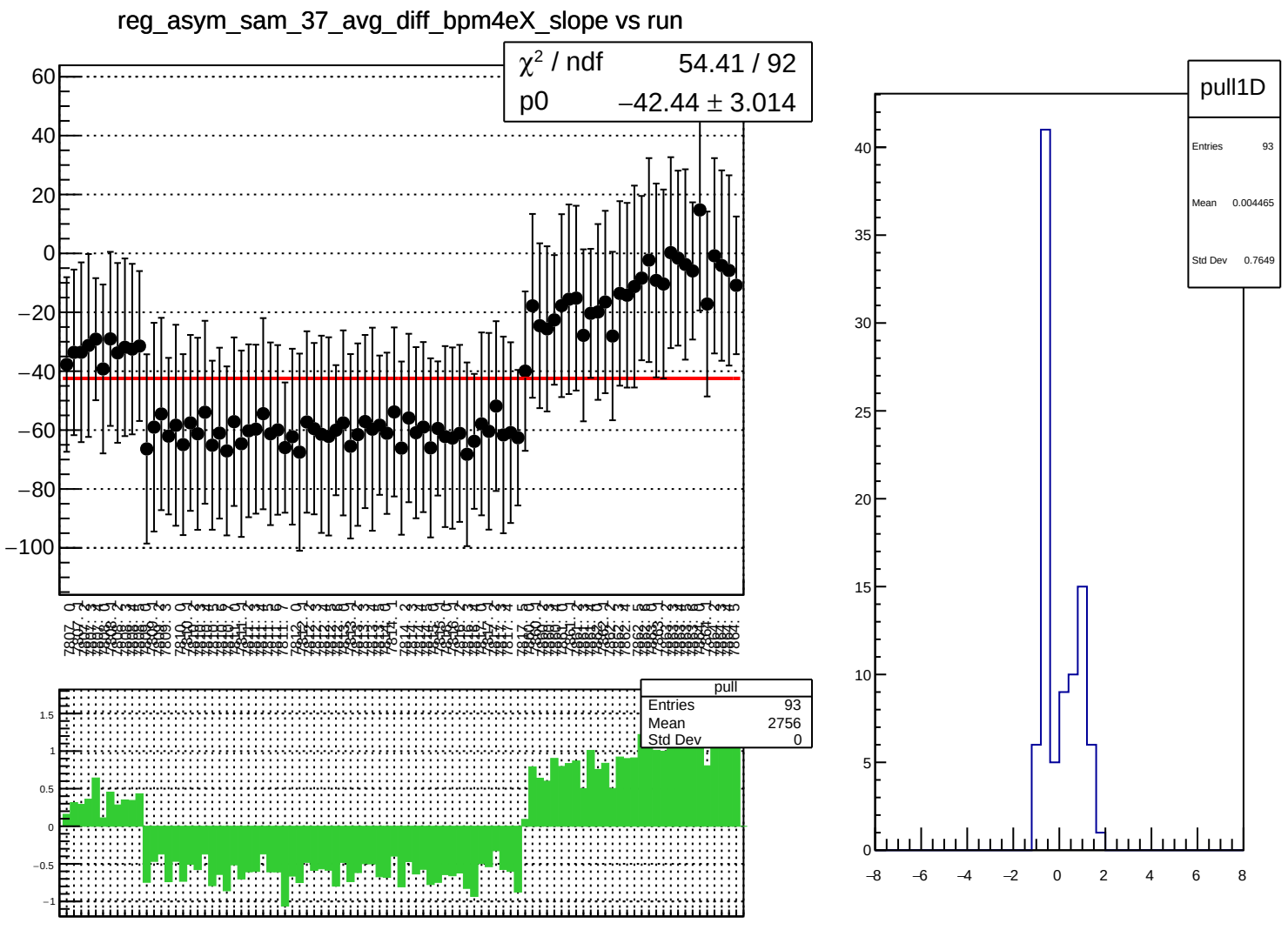

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 84.37 / 92
p0 4.947 ± 1.121
pull
Entries 93
Mean 1602
Std Dev 0
pull1D
Entries 93
Mean −0.01142
Std Dev 0.9524

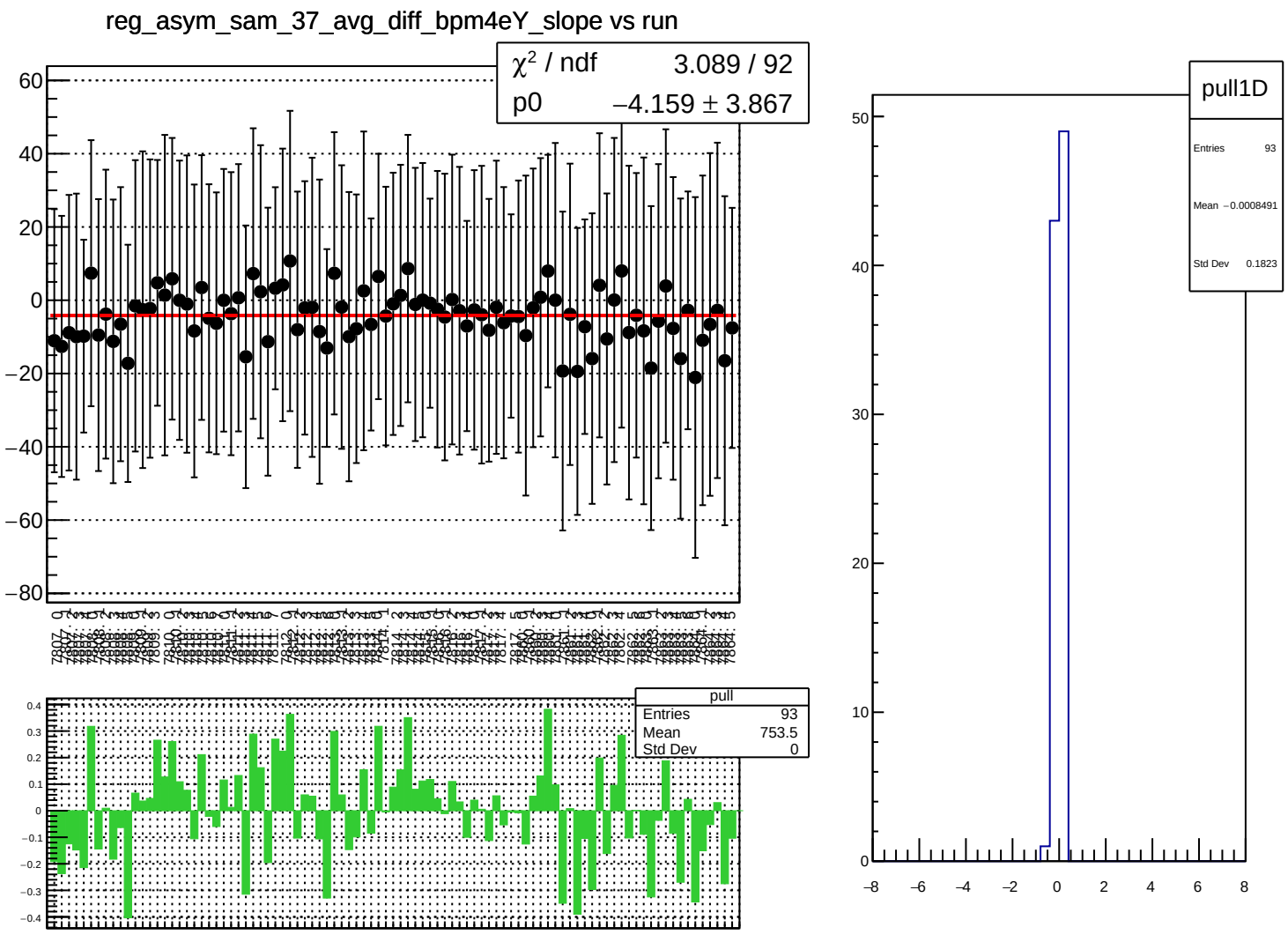

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 10.2 / 92
p0 0.6275 ± 0.03267
pull
Entries 93
Mean 2099
Std Dev 0
pull1D
Entries 93
Mean 0.002084
Std Dev 0.3311

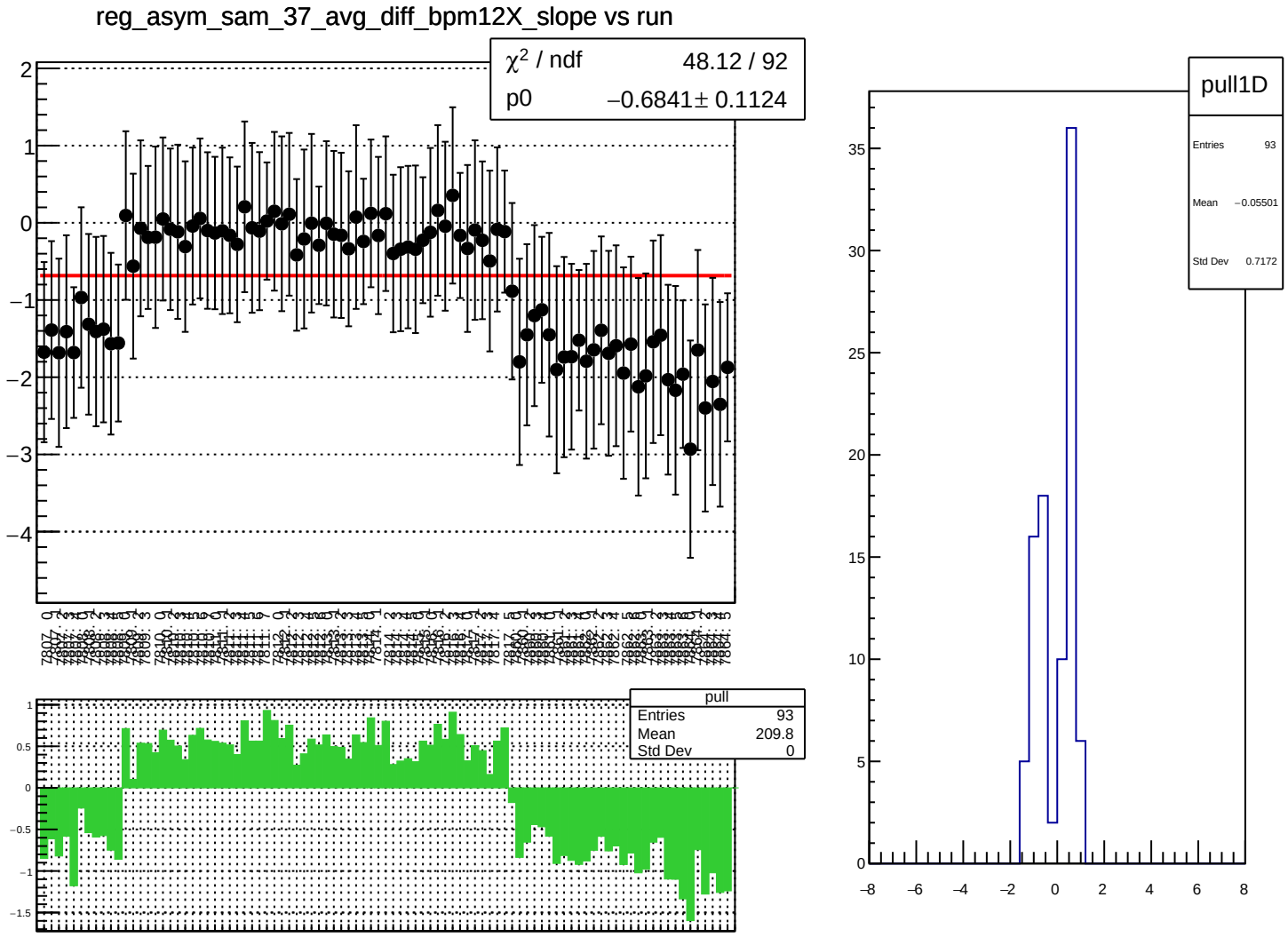

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 66.93 / 92
p0 −49.6 ± 3.335
pull
Entries 93
Mean 550.2
Std Dev 0

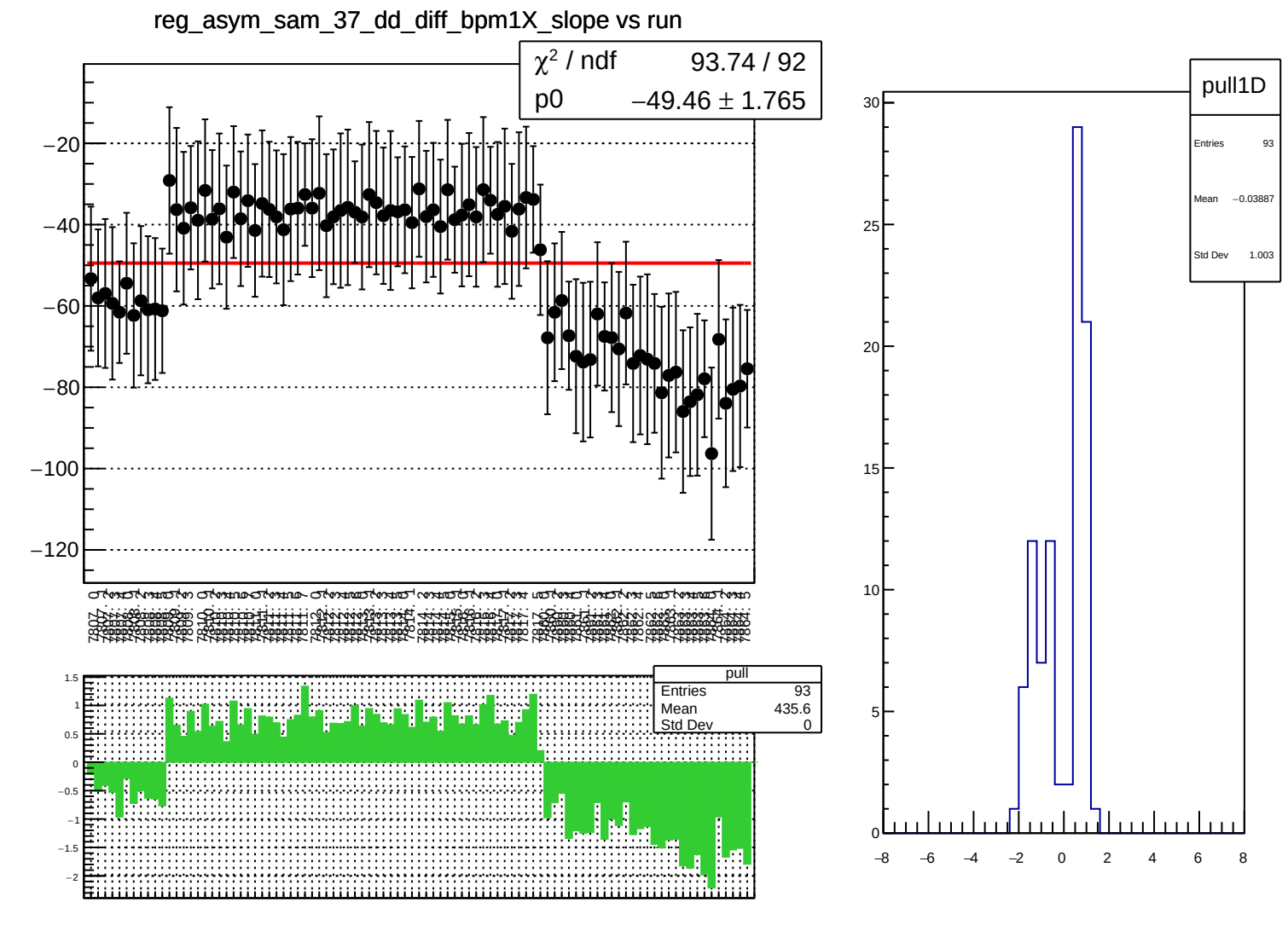

pull1D
Entries 93
Mean −0.02637
Std Dev 0.8479

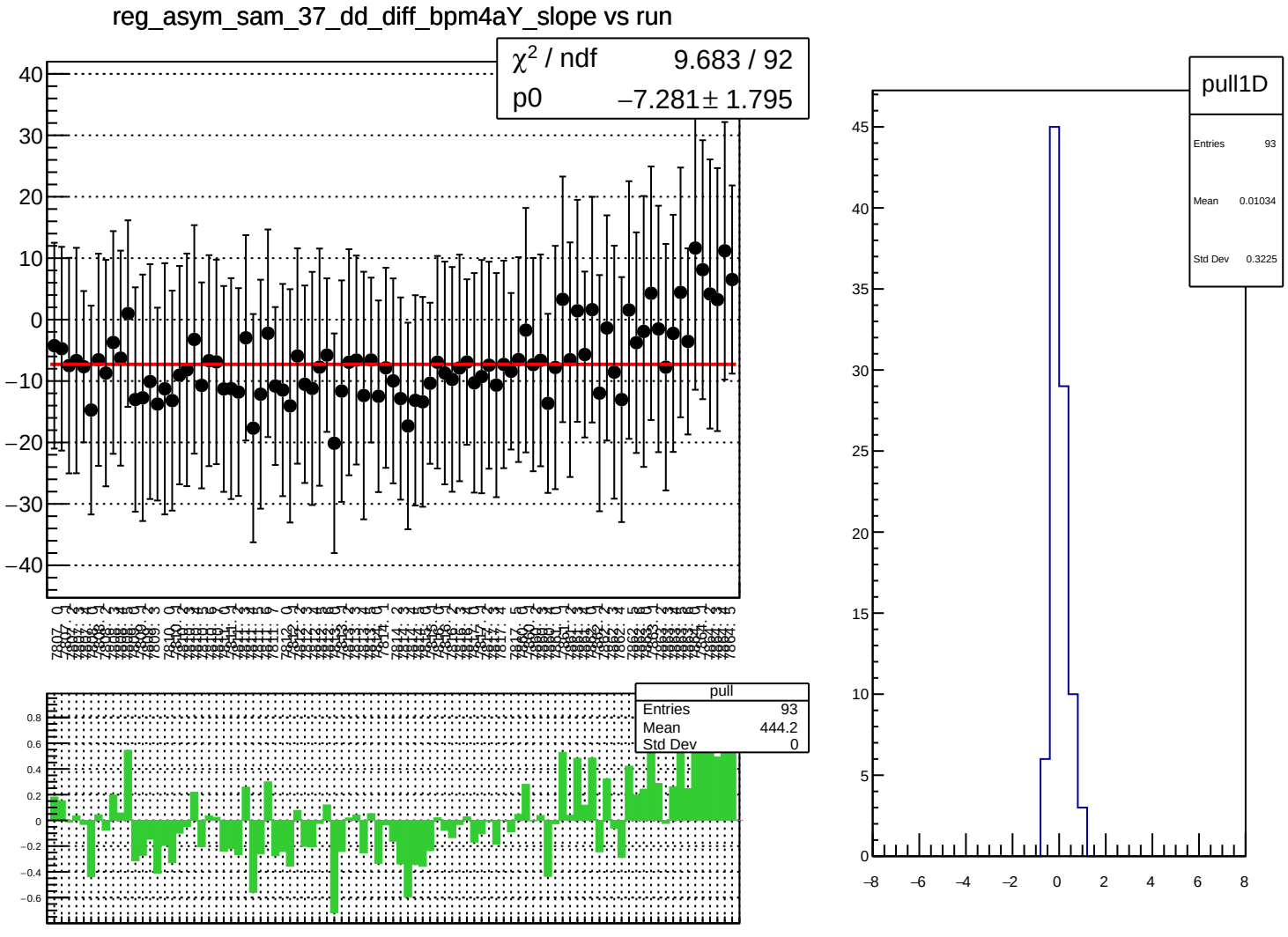

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.2 / 92
p0 10.18 ± 3.392
pull
Entries 93
Mean 756.4
Std Dev 0
pull1D
Entries 93
Mean 0.001342
Std Dev 0.1855

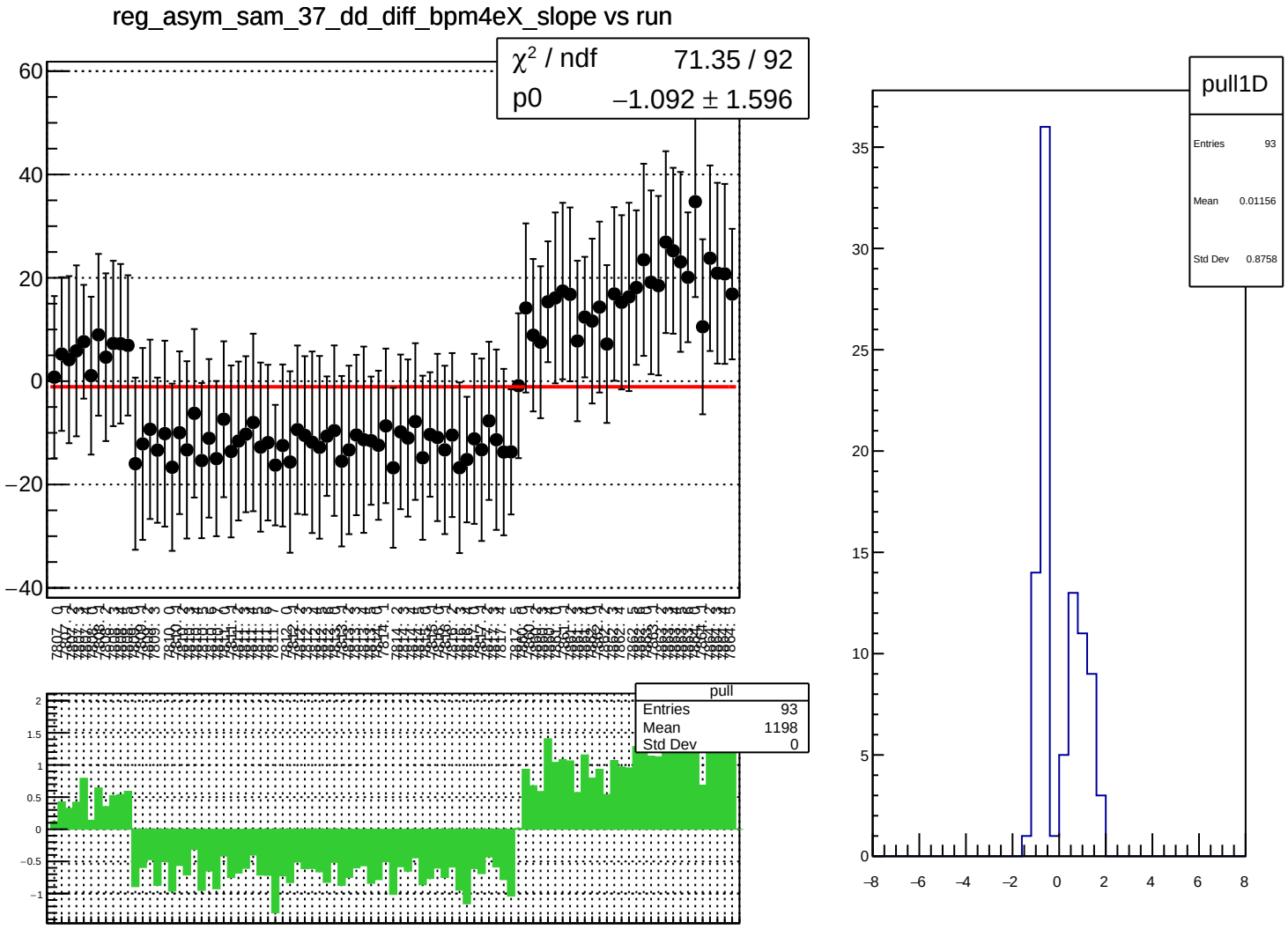

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 54.41 / 92
p0 −42.44 ± 3.014
pull
Entries 93
Mean 2756
Std Dev 0
pull1D
Entries 93
Mean 0.004465
Std Dev 0.7649

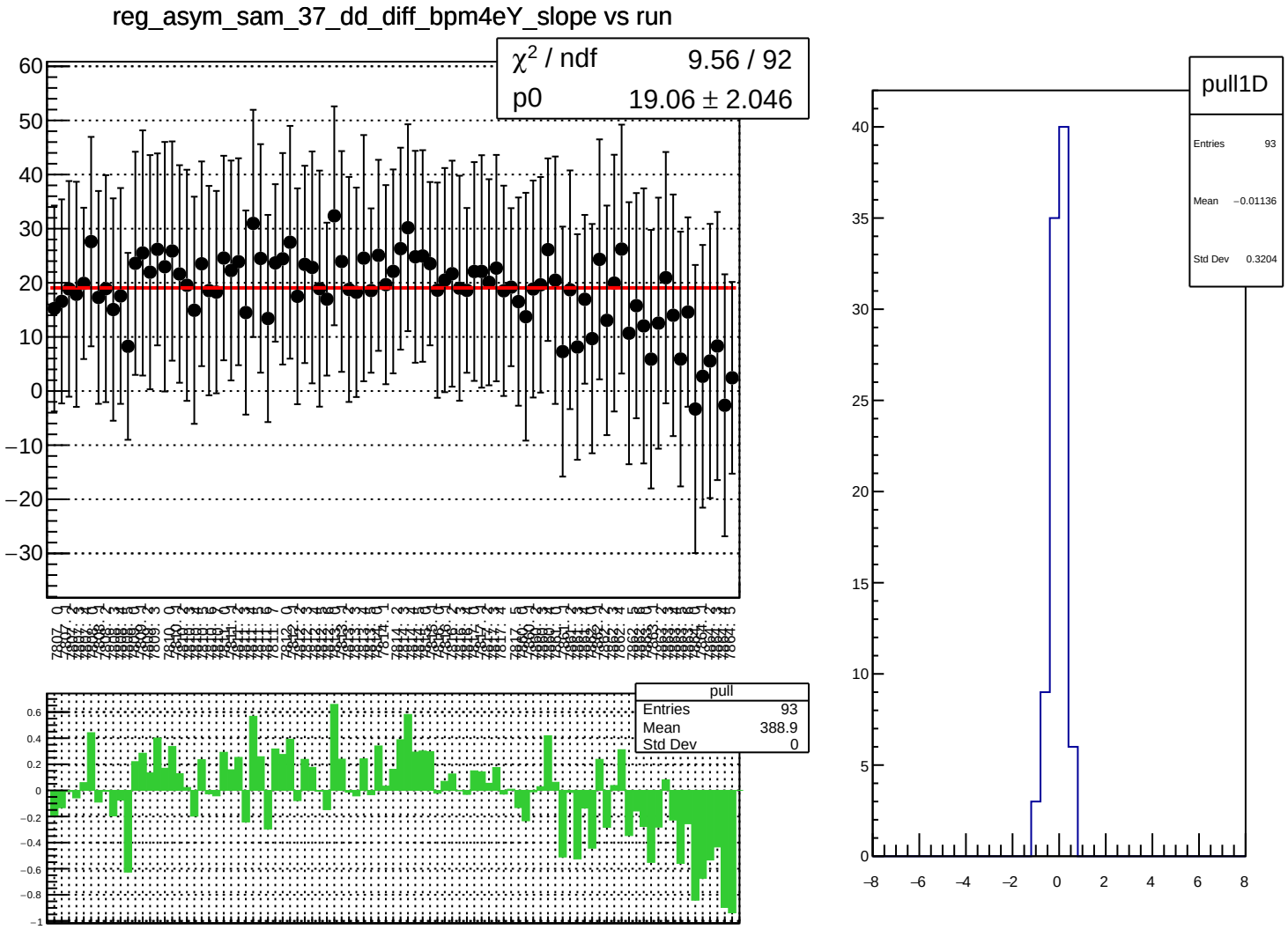

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.089 / 92
p0 −4.159 ± 3.867
pull
Entries 93
Mean 753.5
Std Dev 0
pull1D
Entries 93
Mean −0.0008491
Std Dev 0.1823

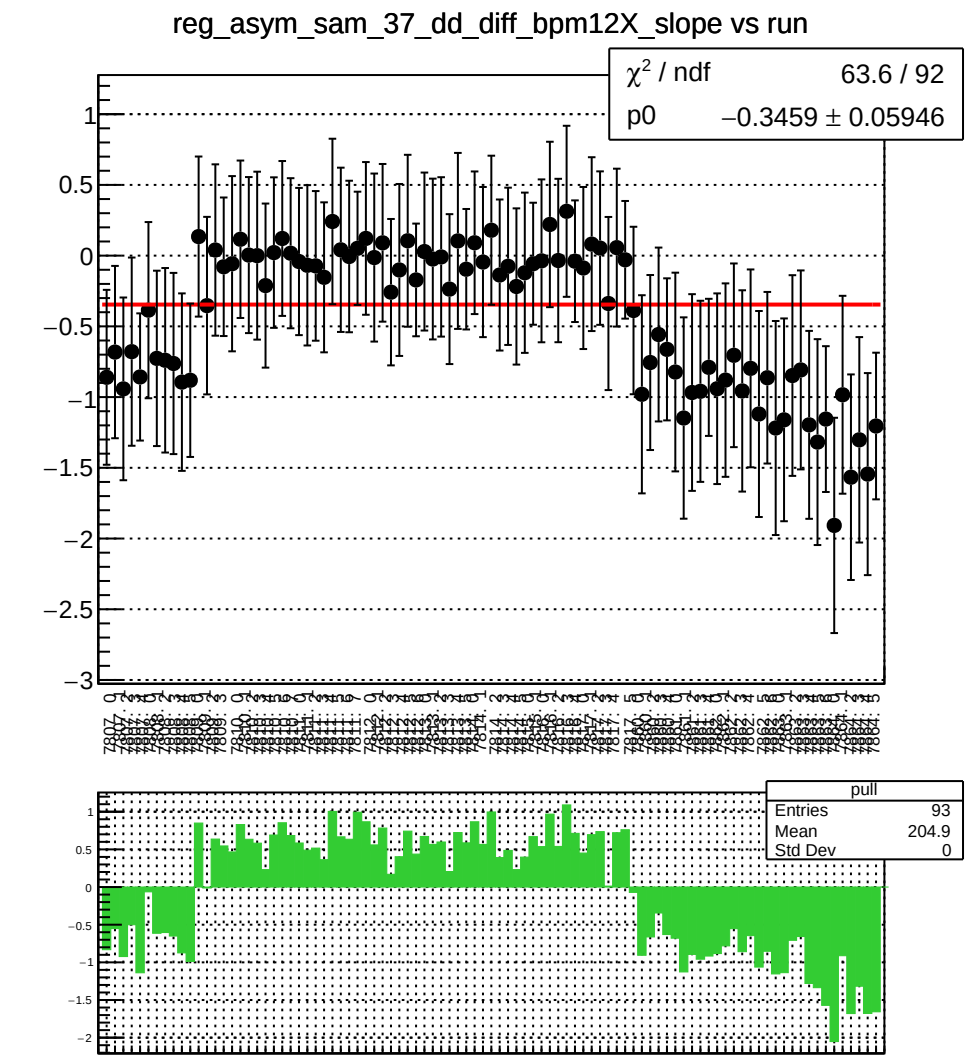

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 48.12 / 92
p0 −0.6841± 0.1124
pull
Entries 93
Mean 209.8
Std Dev 0
pull1D
Entries 93
Mean −0.05501
Std Dev 0.7172

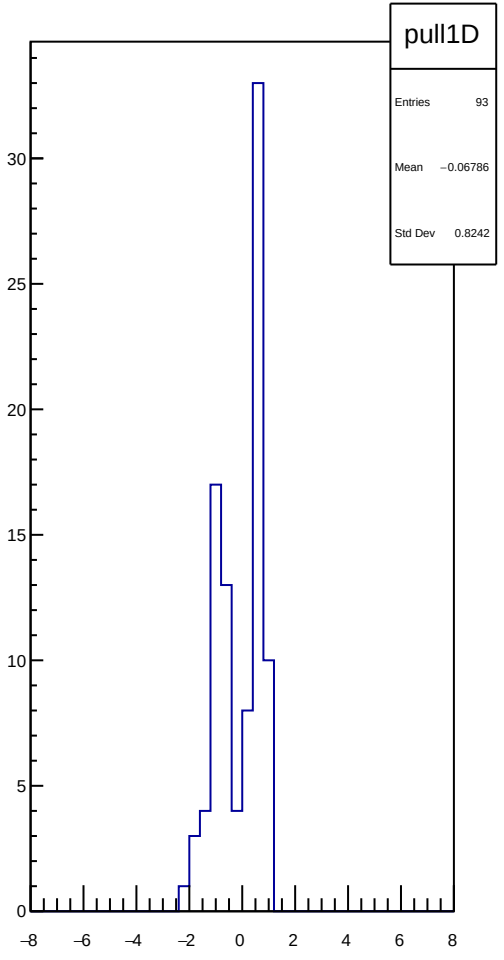

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 93.74 / 92
p0 −49.46 ± 1.765
−20
−40
−60
−80
−100
−120
pull
Entries 93
Mean 435.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean −0.03887
Std Dev 1.003
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

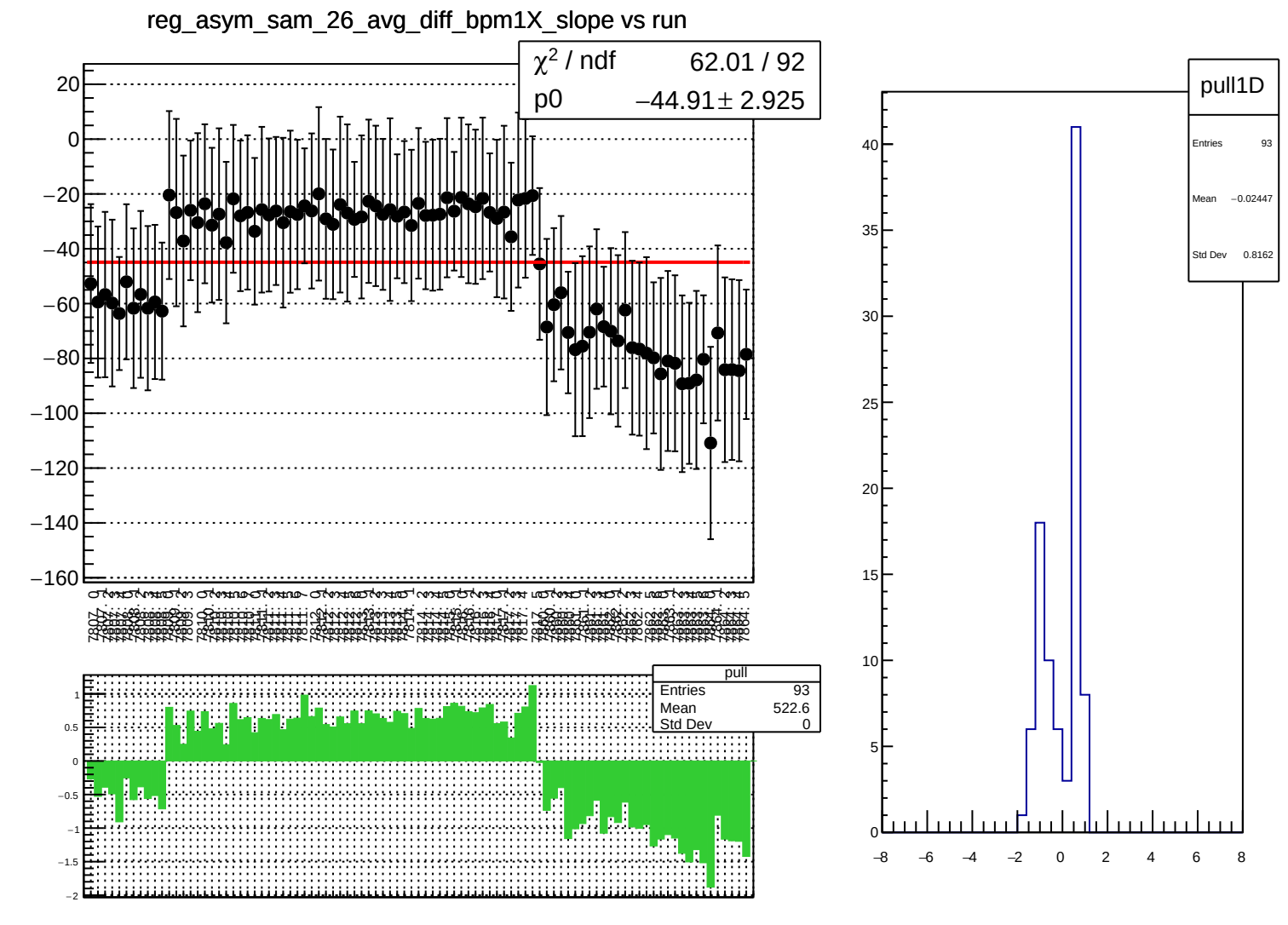

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.683 / 92
p0 −7.281± 1.795
pull
Entries 93
Mean 444.2
Std Dev 0
pull1D
Entries 93
Mean 0.01034
Std Dev 0.3225

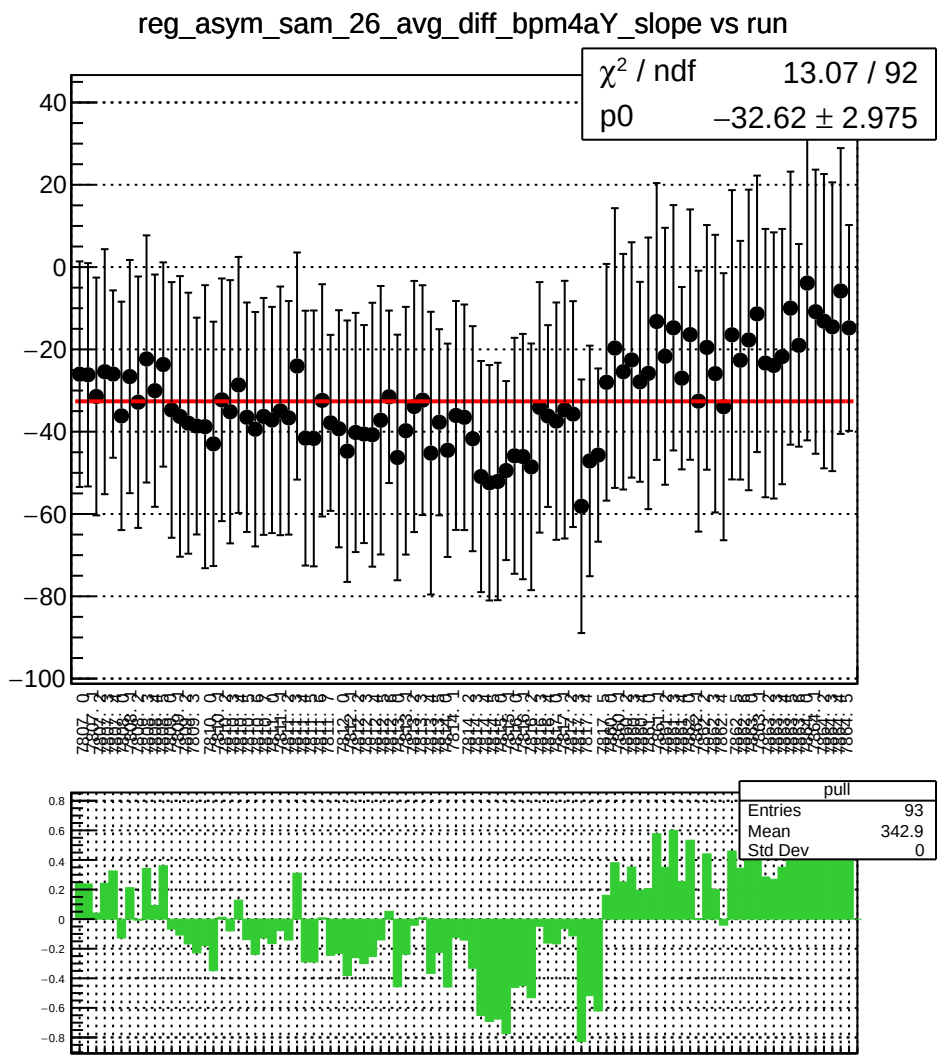

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 71.35 / 92
p0 −1.092 ± 1.596
pull
Entries 93
Mean 1198
Std Dev 0
pull1D
Entries 93
Mean 0.01156
Std Dev 0.8758

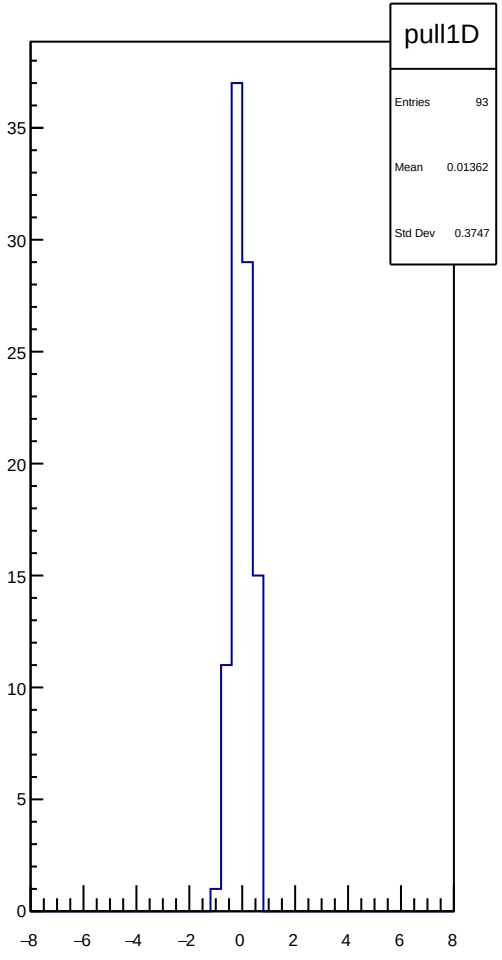

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.56 / 92
p0 19.06 ± 2.046
pull
Entries 93
Mean 388.9
Std Dev 0
pull1D
Entries 93
Mean −0.01136
Std Dev 0.3204

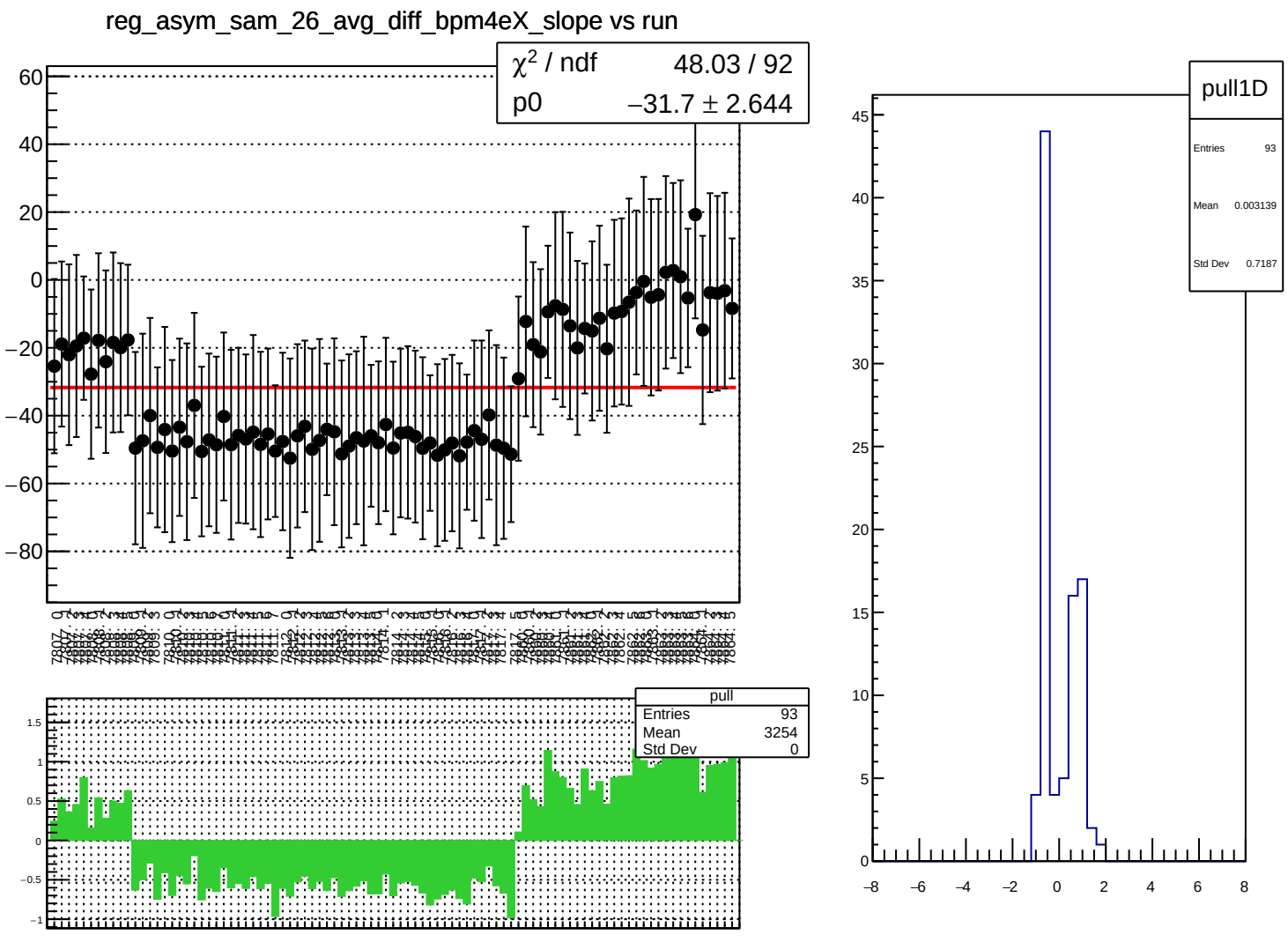

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 63.6 / 92
p0 −0.3459 ± 0.05946
pull
Entries 93
Mean 204.9
Std Dev 0

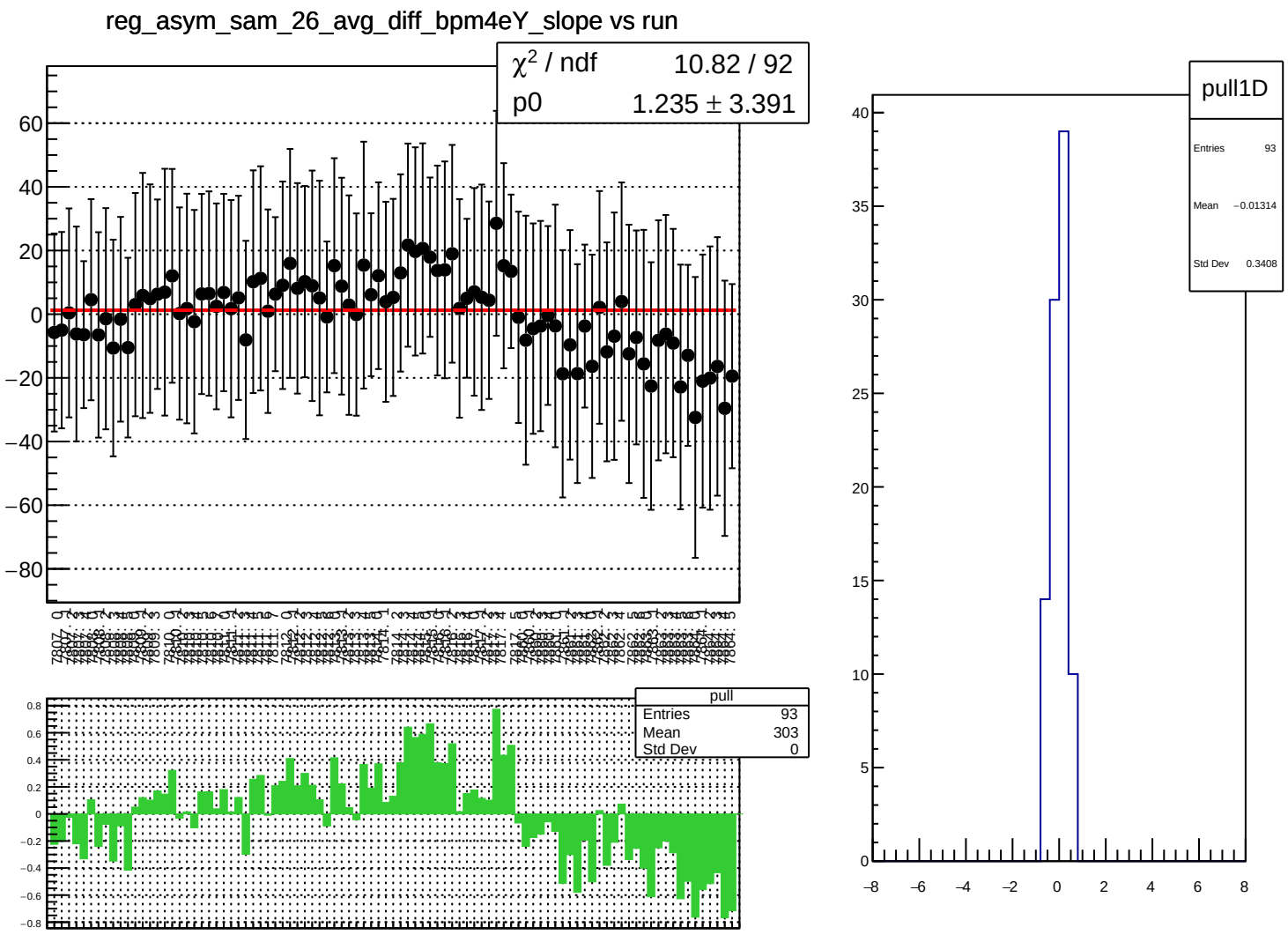

pull1D
Entries 93
Mean −0.06786
Std Dev 0.8242

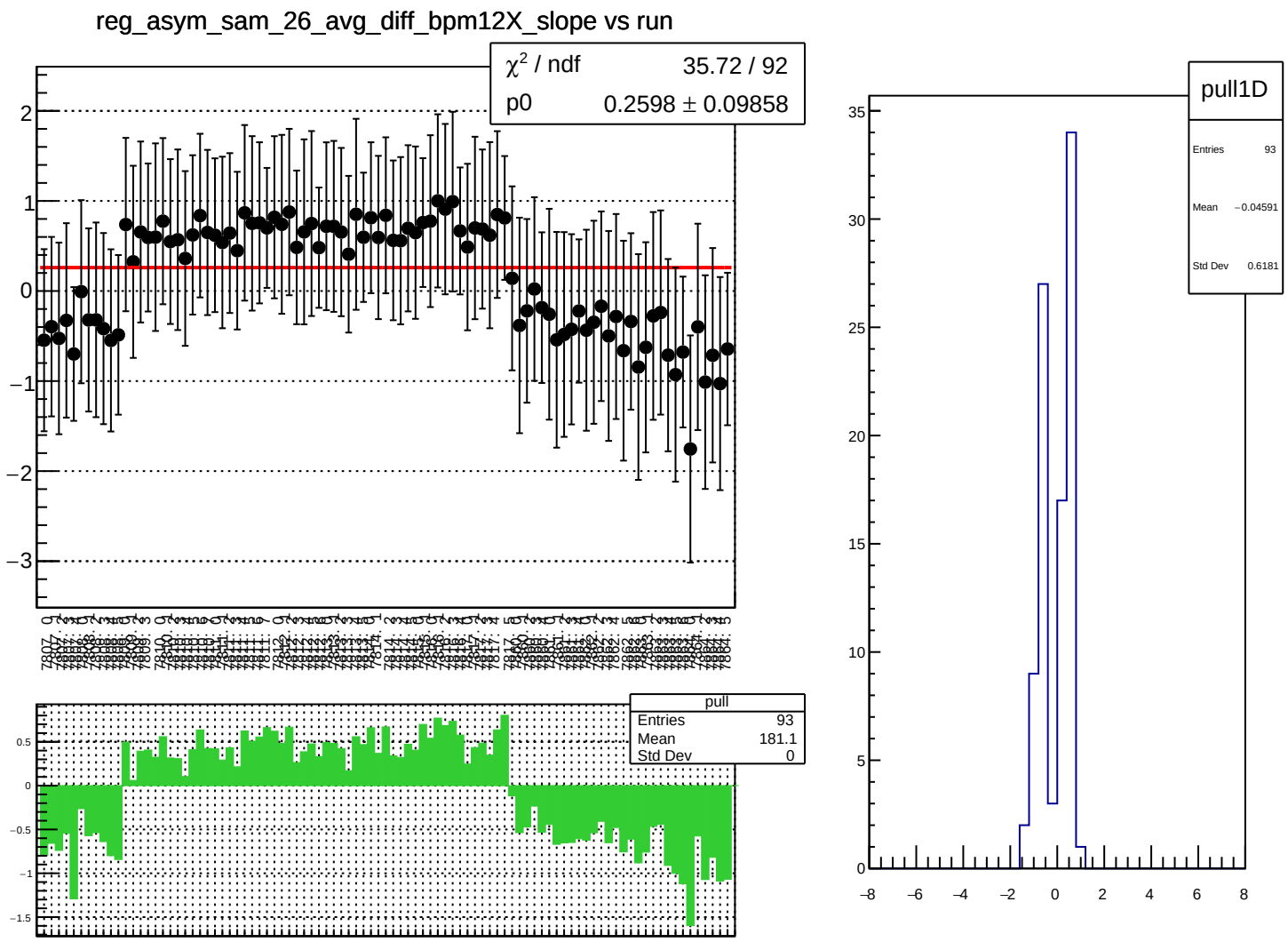

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 62.01 / 92
p0 −44.91 ± 2.925
pull
Entries 93
Mean 522.6
Std Dev 0
pull1D
Entries 93
Mean −0.02447
Std Dev 0.8162

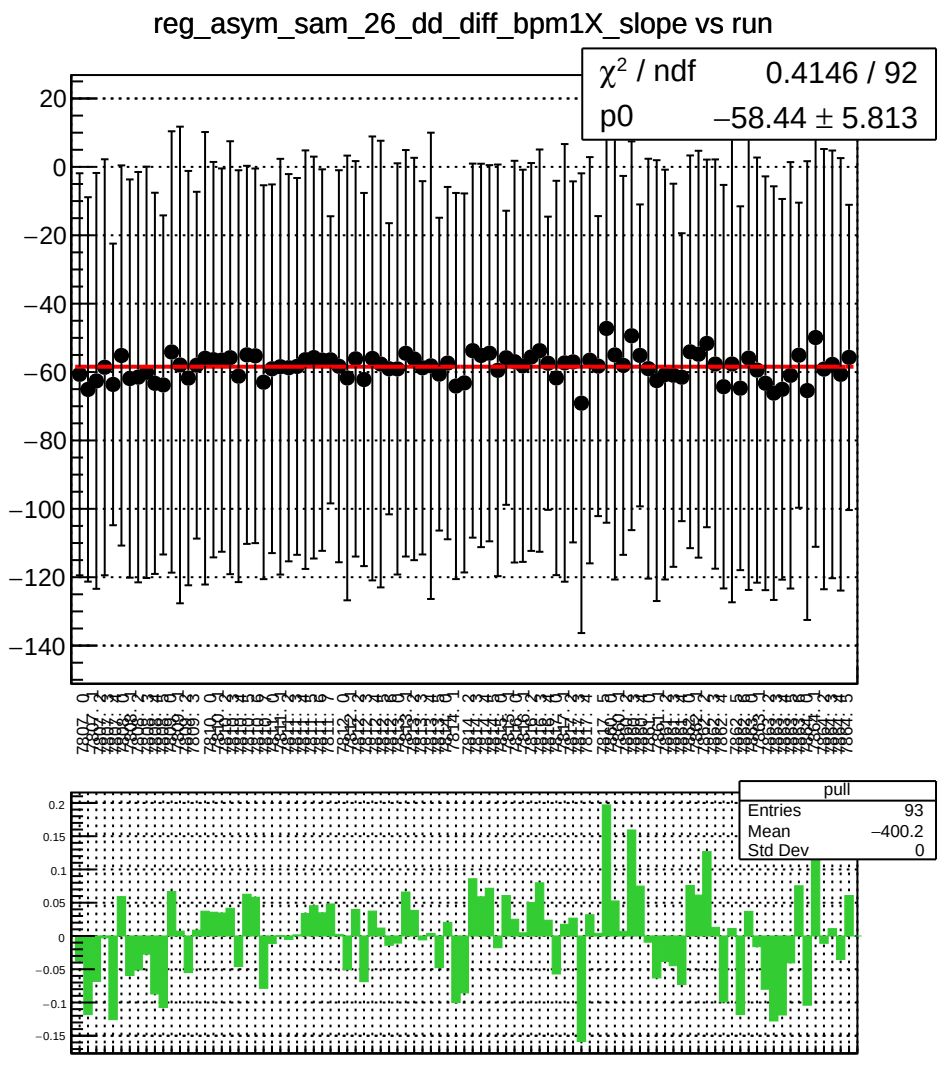

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 13.07 / 92
p0 −32.62 ± 2.975
pull
Entries 93
Mean 342.9
Std Dev 0

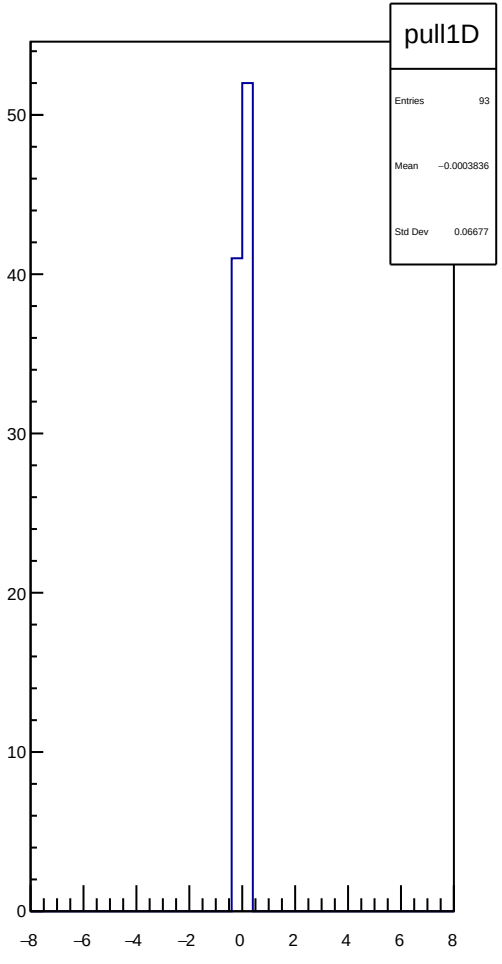

pull1D
Entries 93
Mean 0.01362
Std Dev 0.3747

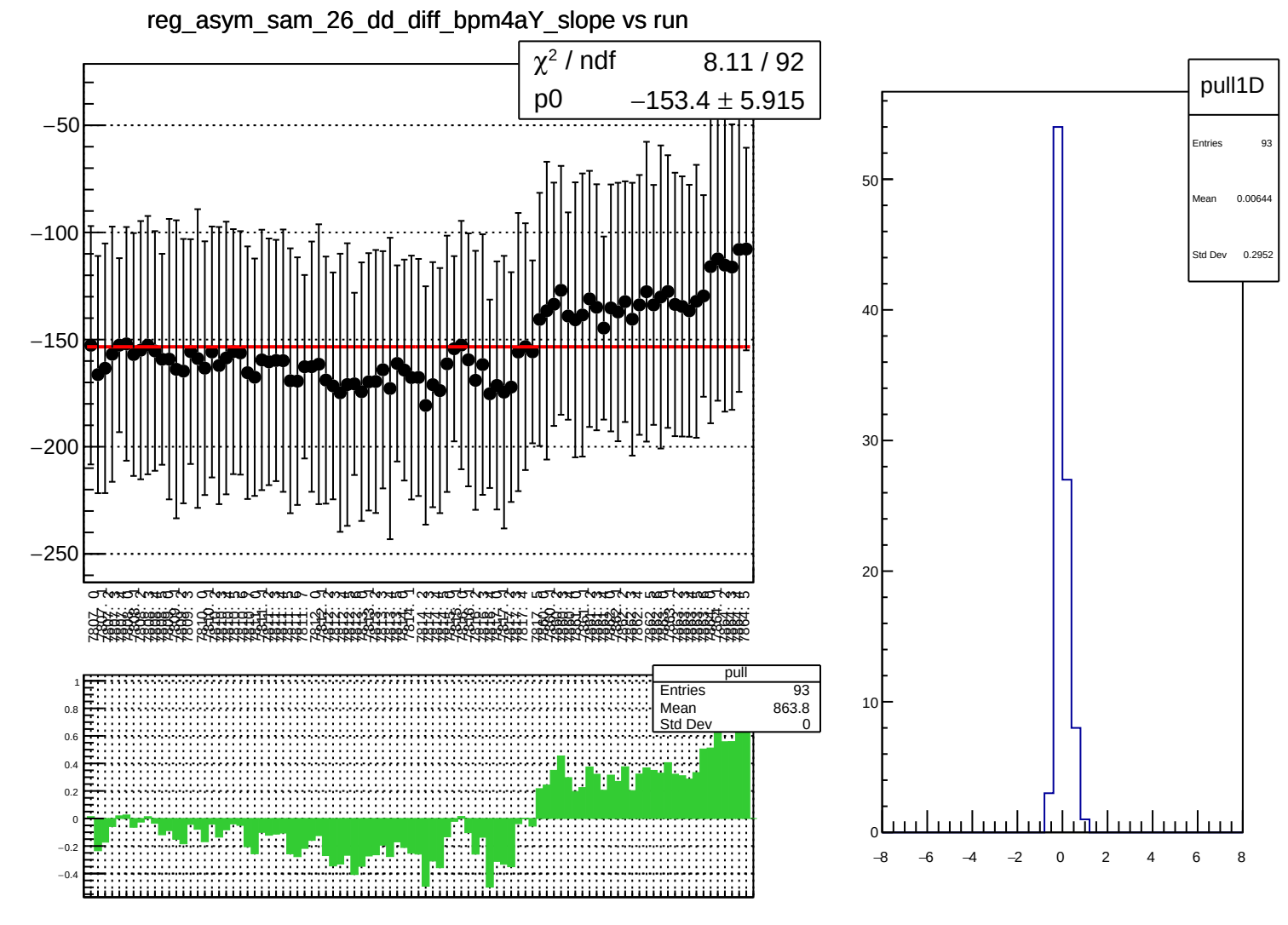

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 48.03 / 92
p0 −31.7 ± 2.644
pull
Entries 93
Mean 3254
Std Dev 0
pull1D
Entries 93
Mean 0.003139
Std Dev 0.7187

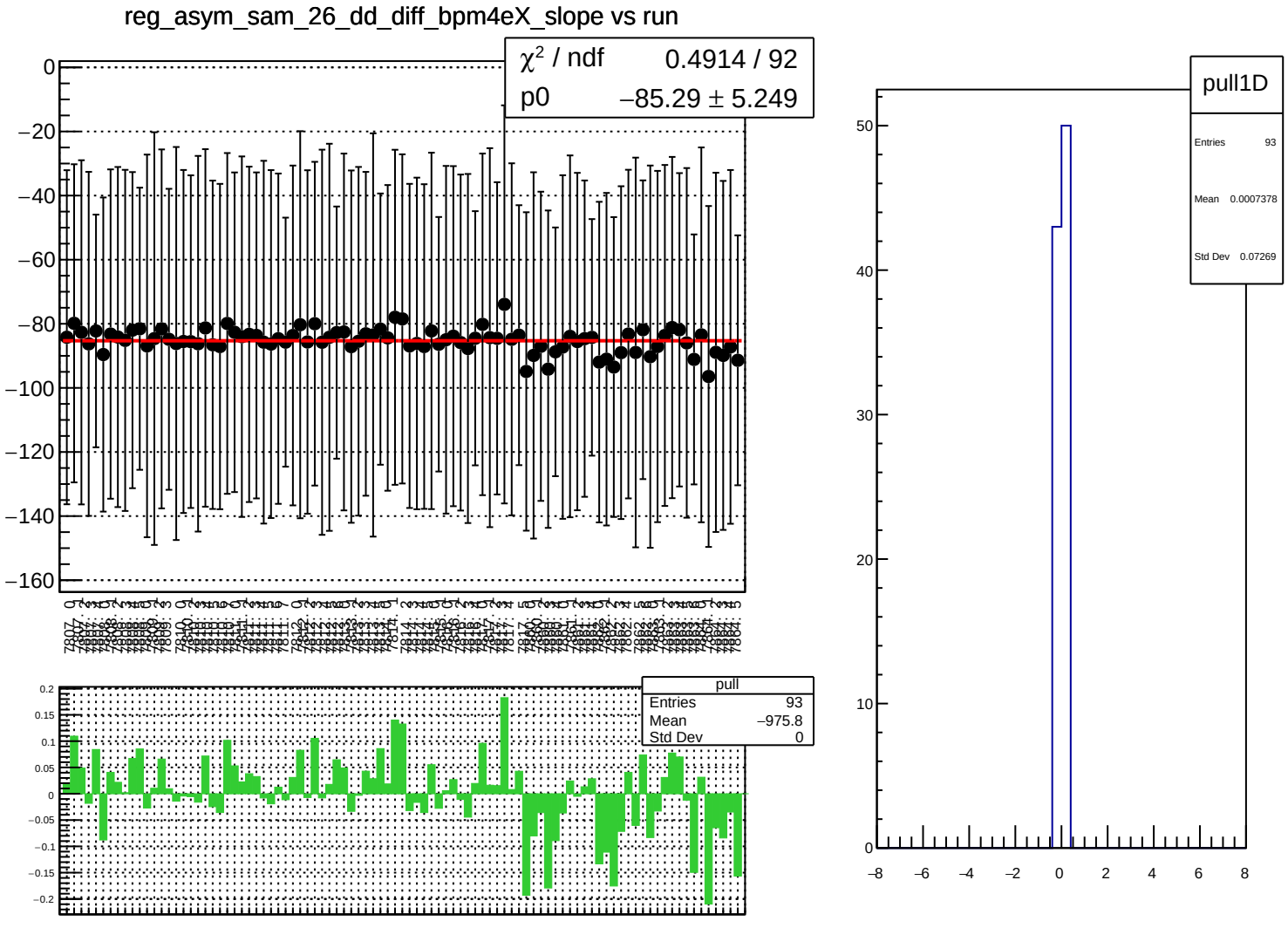

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 10.82 / 92
p0 1.235 ± 3.391
pull
Entries 93
Mean 303
Std Dev 0
pull1D
Entries 93
Mean −0.01314
Std Dev 0.3408

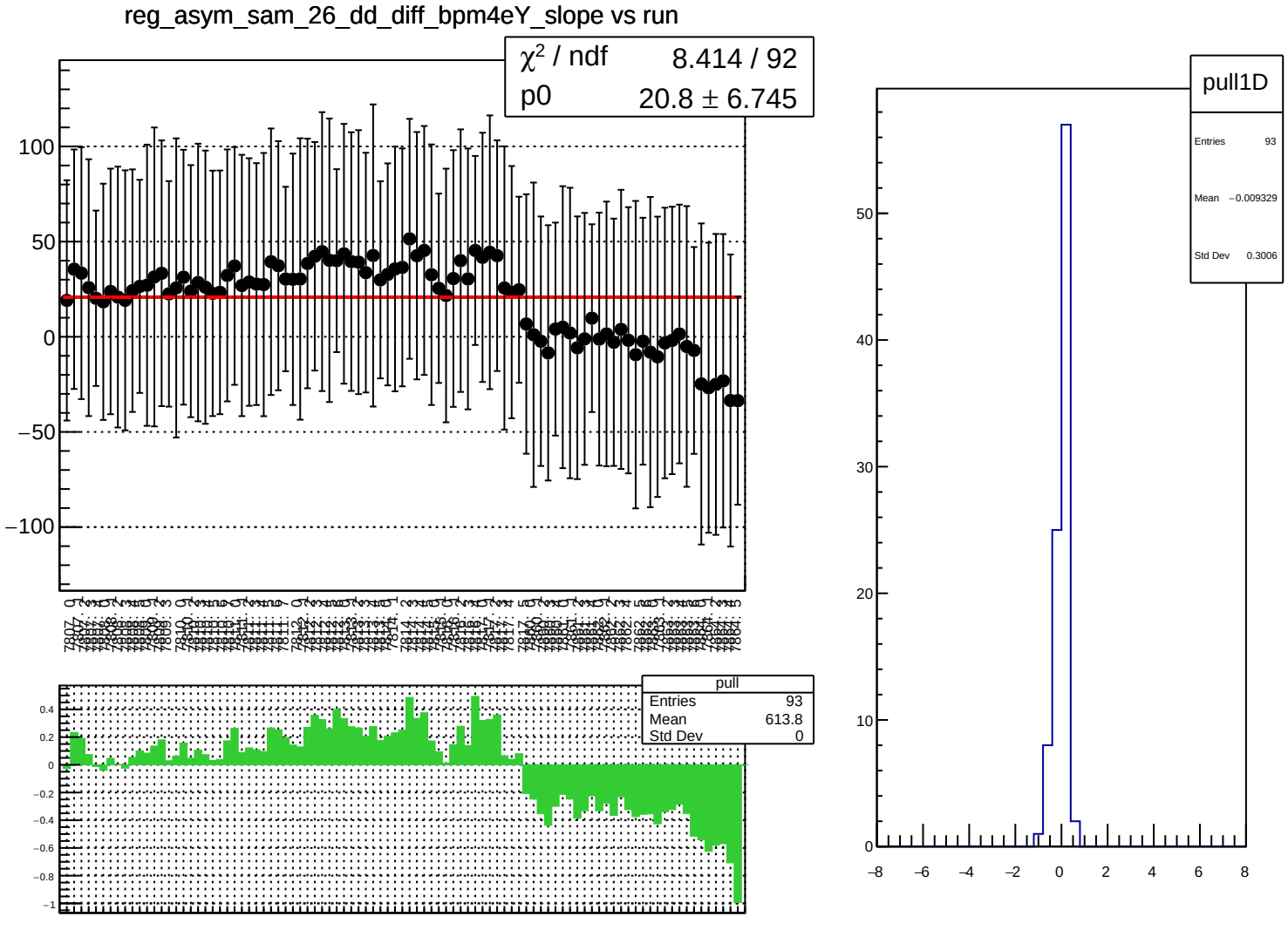

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 35.72 / 92
p0 0.2598 ± 0.09858
pull
Entries 93
Mean 181.1
Std Dev 0
pull1D
Entries 93
Mean −0.04591
Std Dev 0.6181

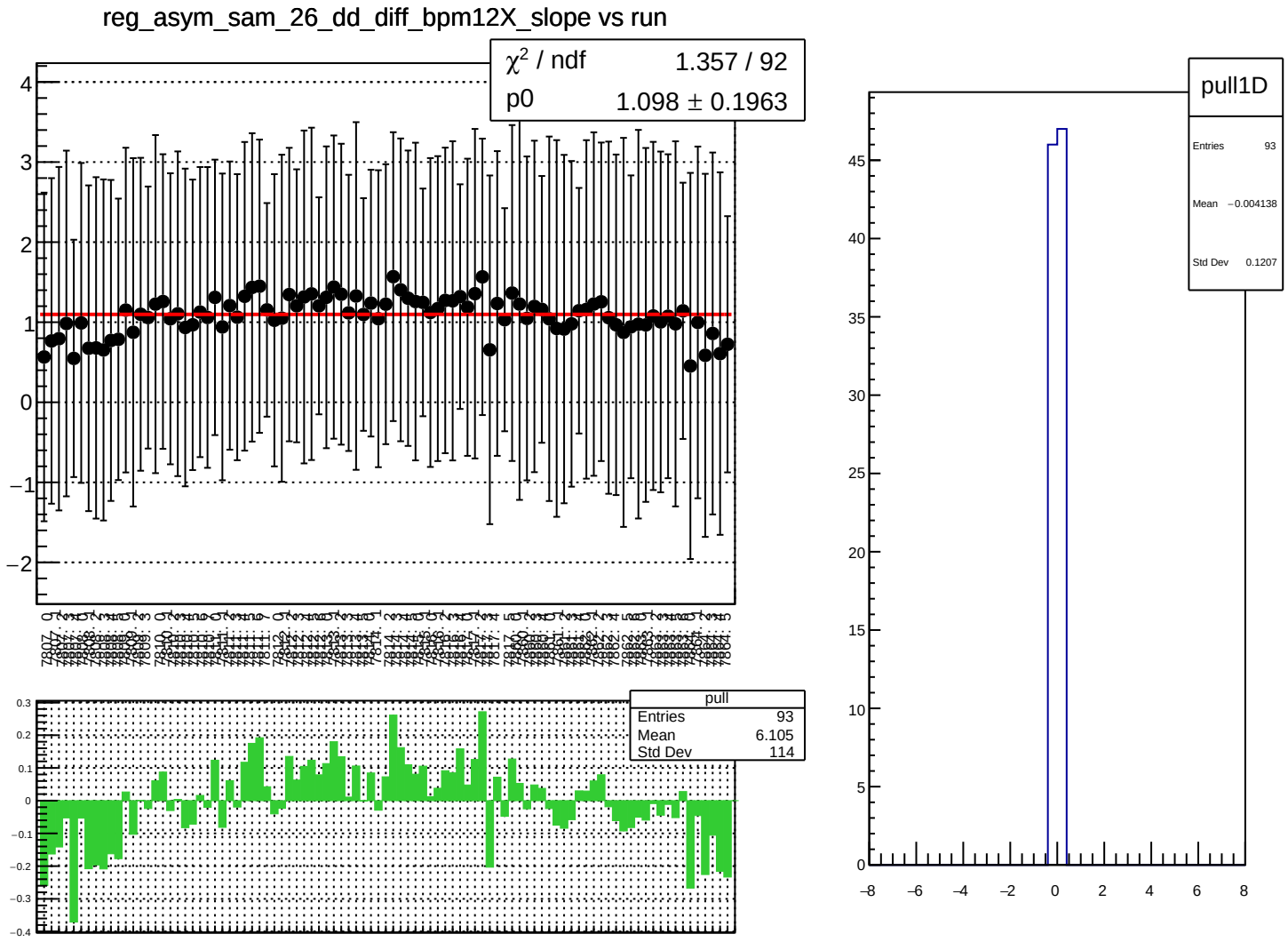

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 0.4146 / 92
p0 −58.44 ± 5.813
pull
Entries 93
Mean −400.2
Std Dev 0

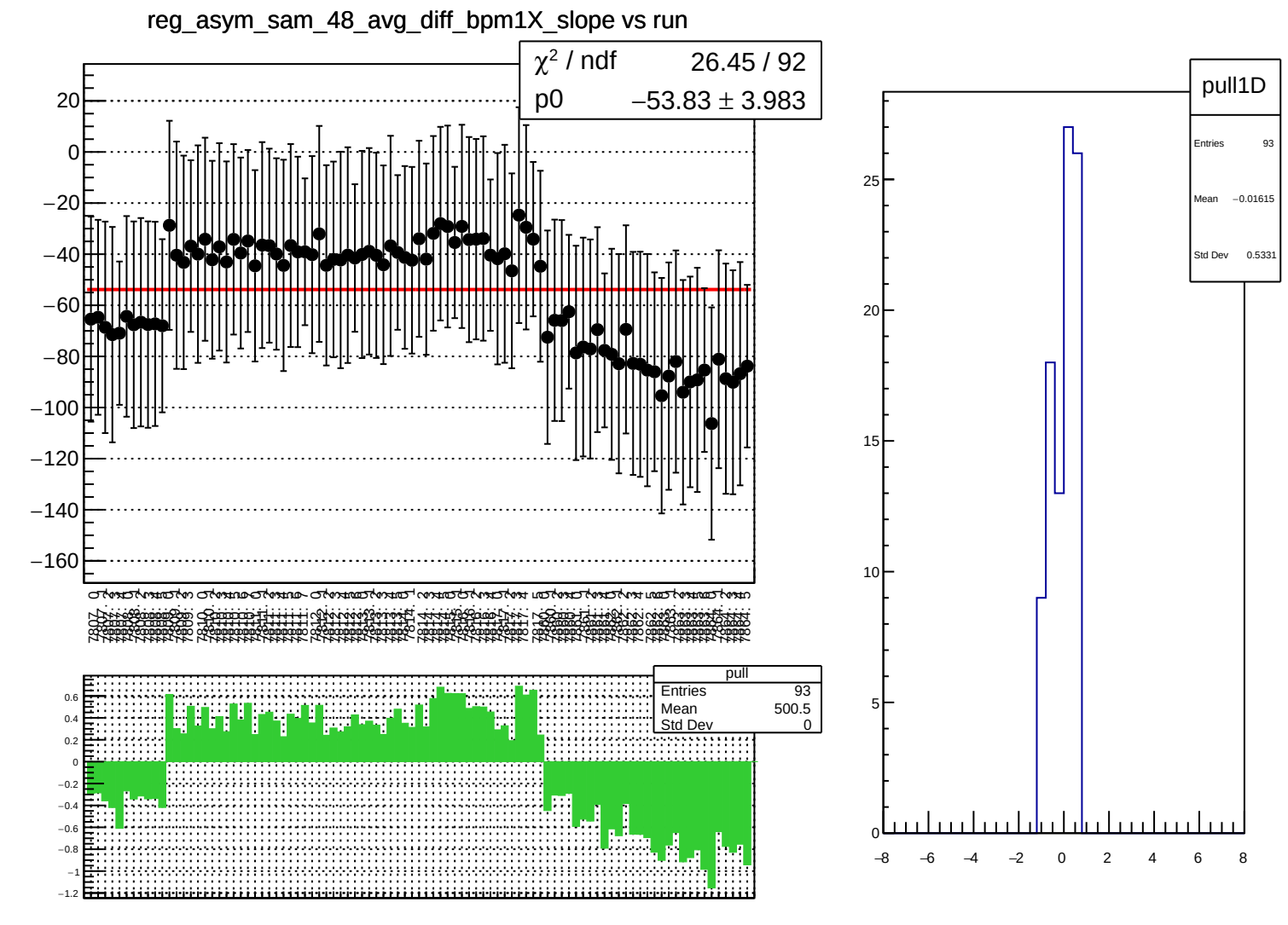

pull1D
Entries 93
Mean −0.0003836
Std Dev 0.06677

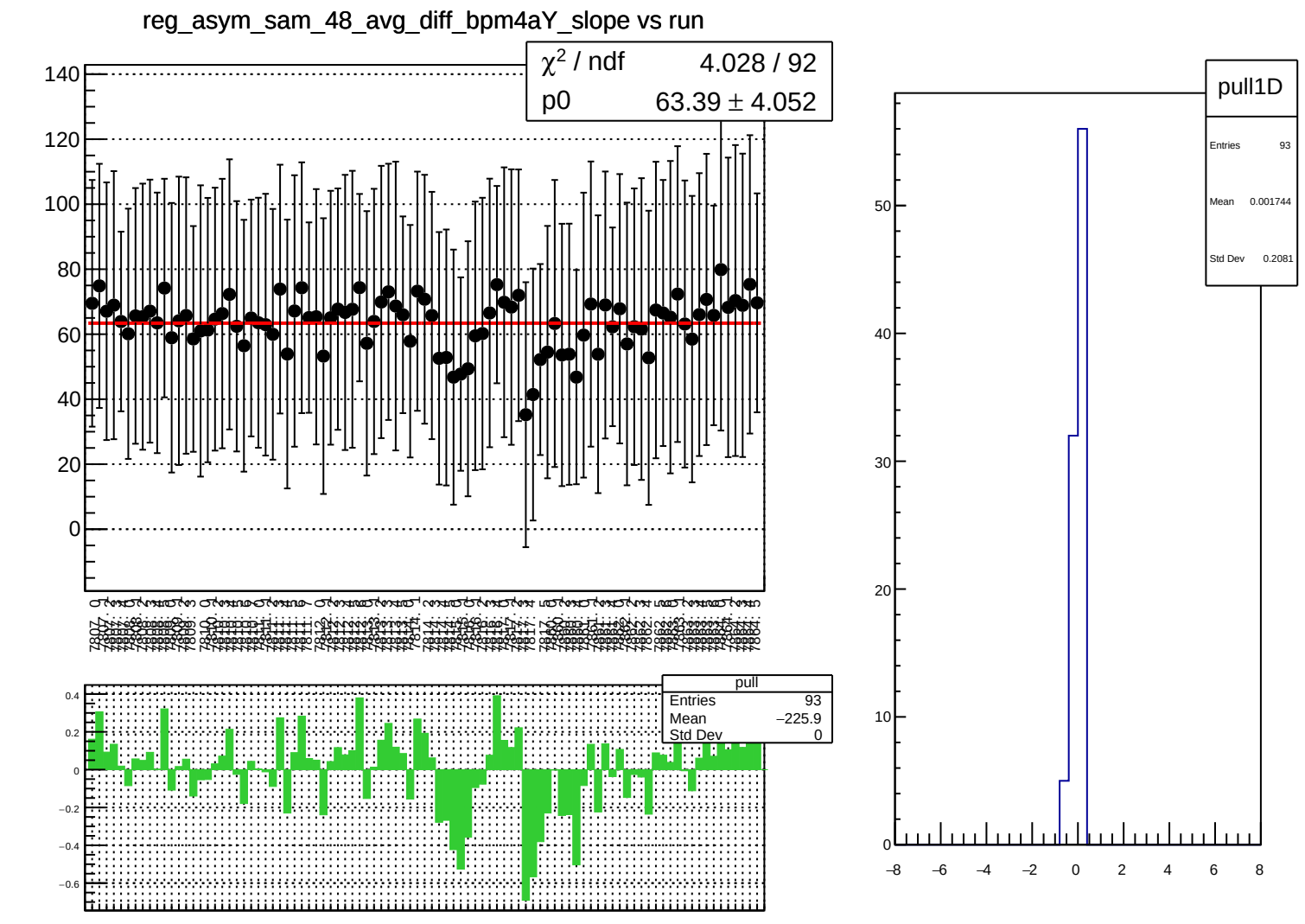

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.11 / 92
p0 −153.4 ± 5.915
−50
−100
−150
−200
−250
pull
Entries 93
Mean 863.8
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 93
Mean 0.00644
Std Dev 0.2952
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

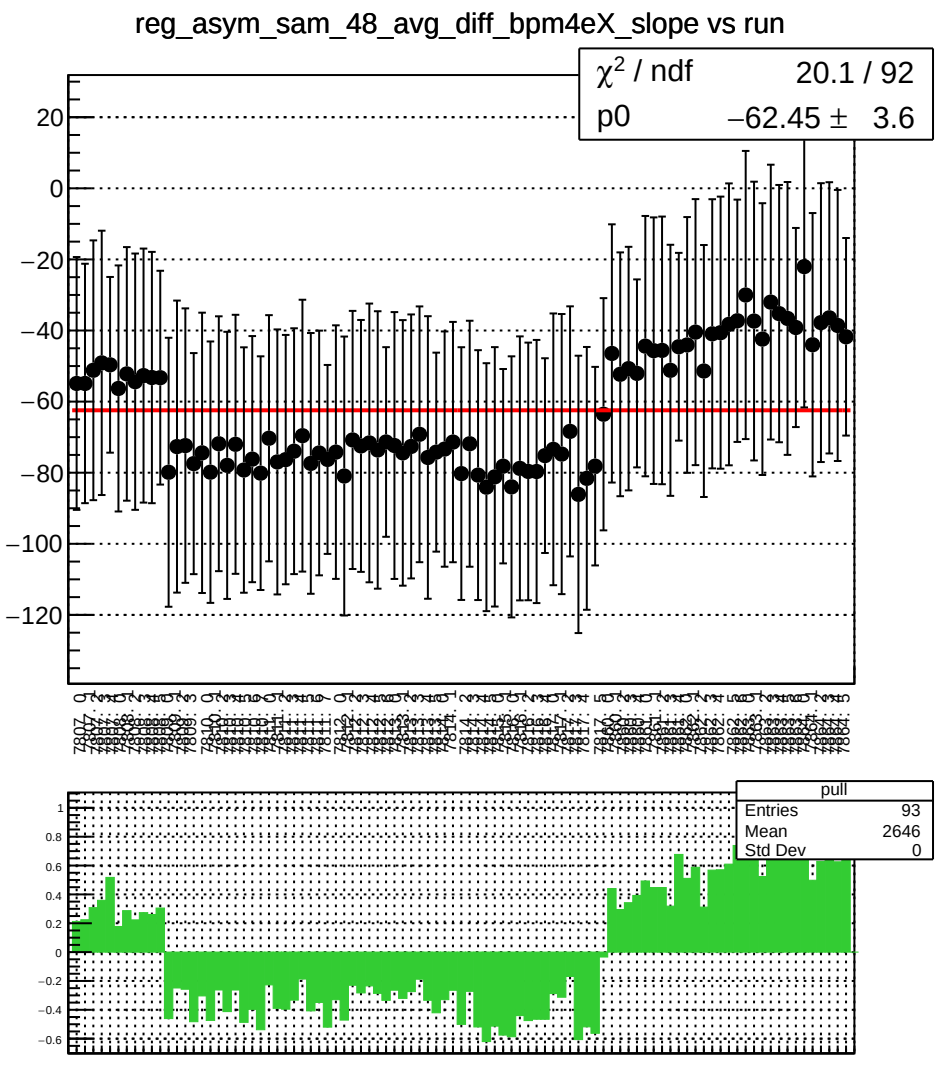

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.4914 / 92
p0 −85.29 ± 5.249
pull
Entries 93
Mean −975.8
Std Dev 0
pull1D
Entries 93
Mean 0.0007378
Std Dev 0.07269

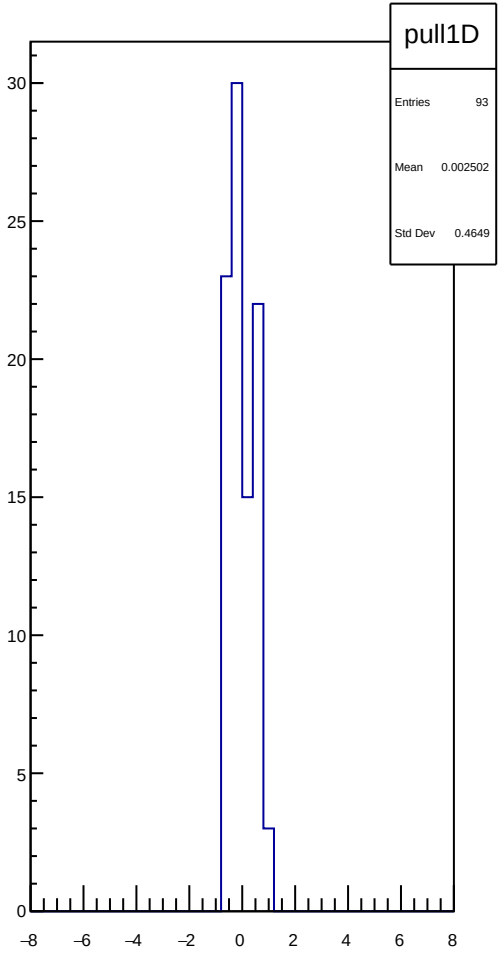

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.414 / 92
p0 20.8 ± 6.745
pull
Entries 93
Mean 613.8
Std Dev 0
pull1D
Entries 93
Mean −0.009329
Std Dev 0.3006

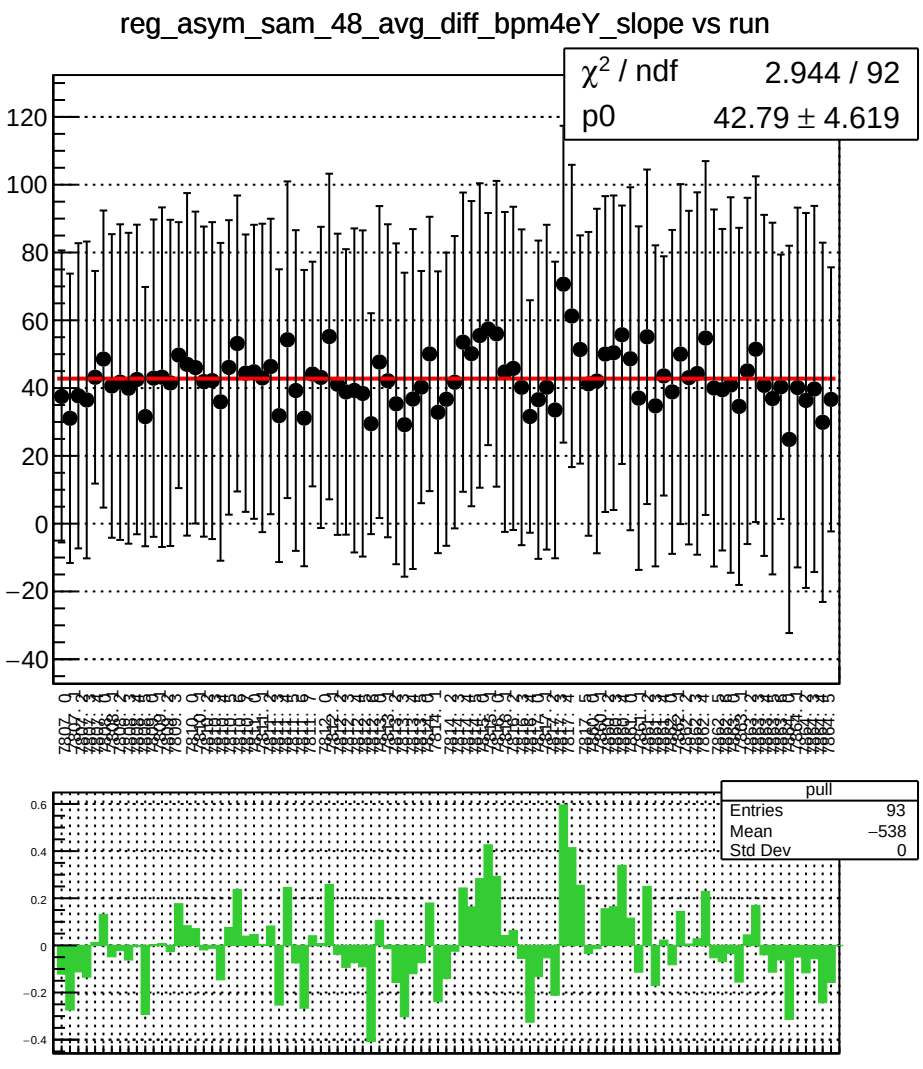

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 1.357 / 92
p0 1.098 ± 0.1963
pull
Entries 93
Mean 6.105
Std Dev 114
pull1D
Entries 93
Mean −0.004138
Std Dev 0.1207

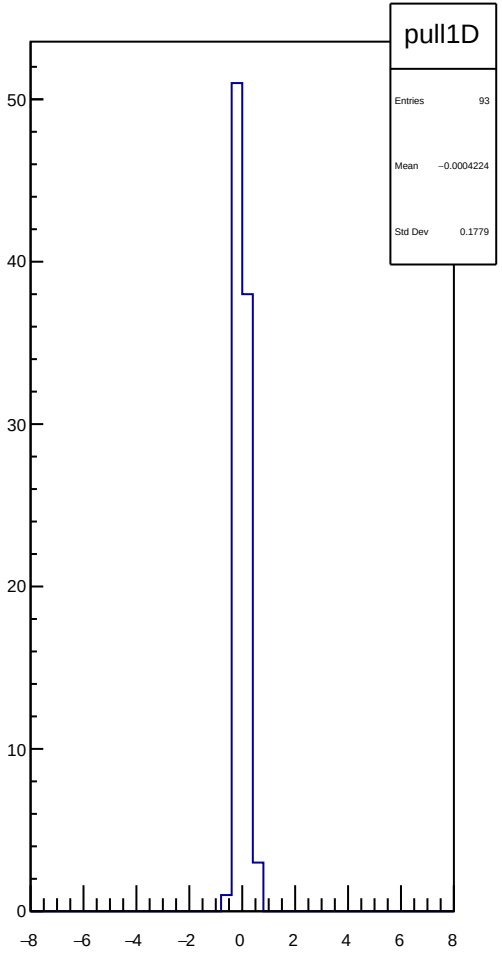

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 26.45 / 92
p0 −53.83 ± 3.983
pull
Entries 93
Mean 500.5
Std Dev 0
pull1D
Entries 93
Mean −0.01615
Std Dev 0.5331

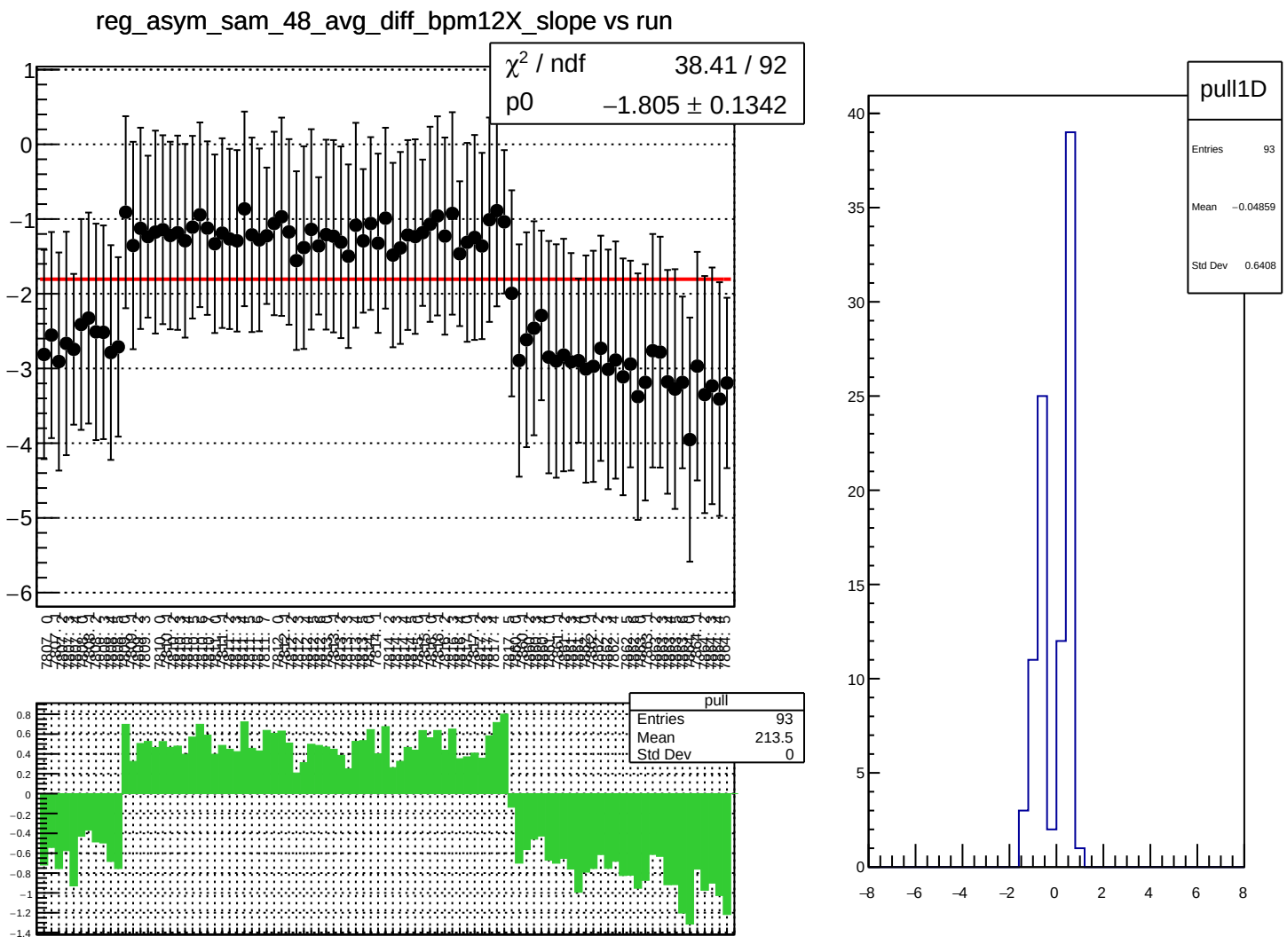

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.028 / 92
p0 63.39 ± 4.052
pull
Entries 93
Mean −225.9
Std Dev 0
pull1D
Entries 93
Mean 0.001744
Std Dev 0.2081

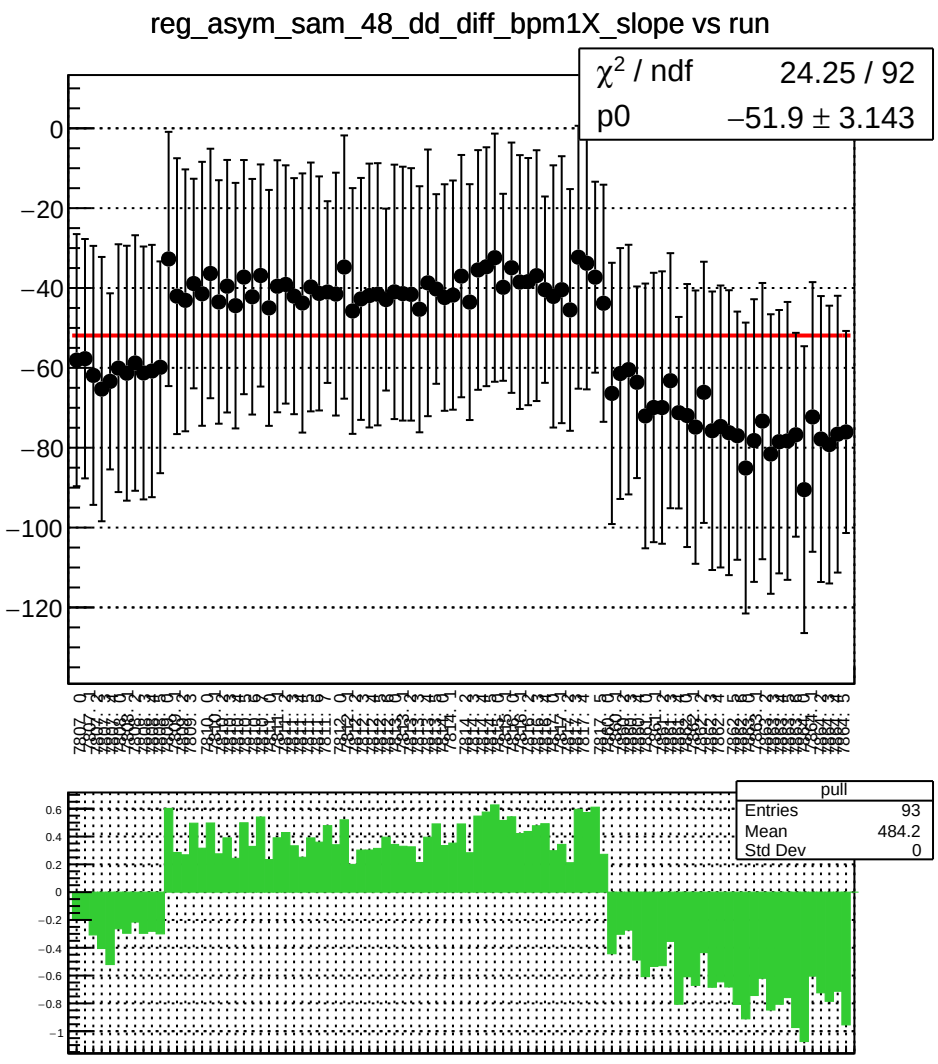

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 20.1 / 92
p0 −62.45 ± 3.6
pull
Entries 93
Mean 2646
Std Dev 0

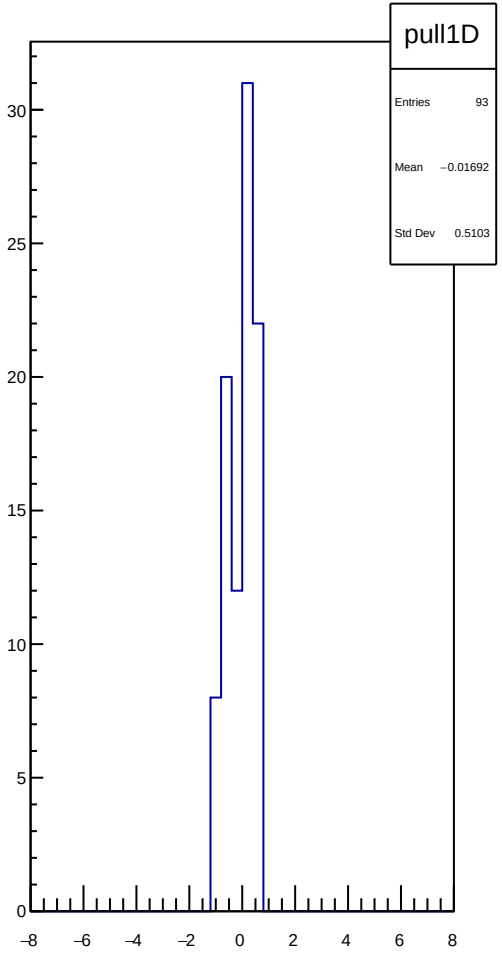

pull1D
Entries 93
Mean 0.002502
Std Dev 0.4649

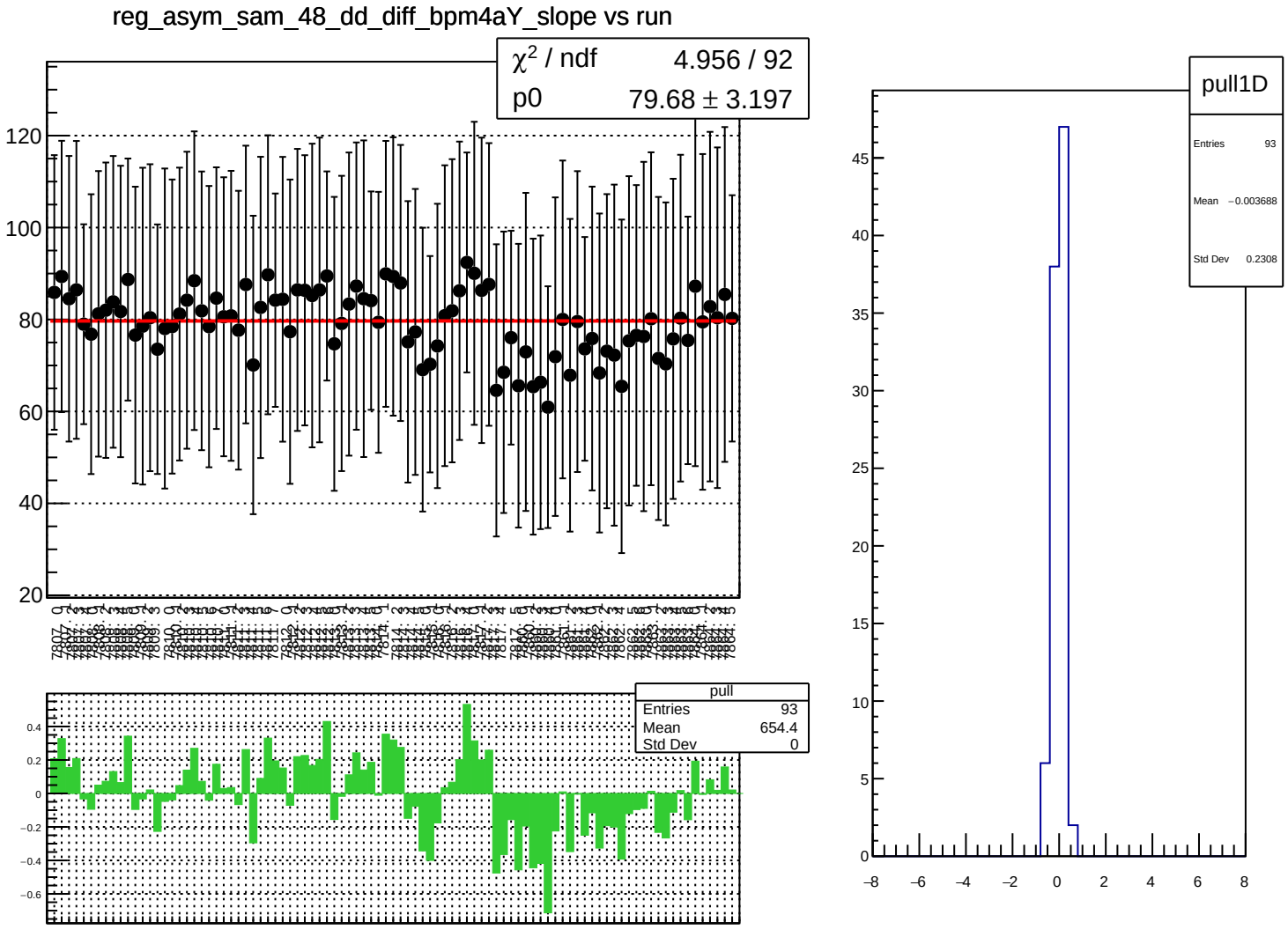

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.944 / 92
p0 42.79 ± 4.619
pull
Entries 93
Mean −538
Std Dev 0

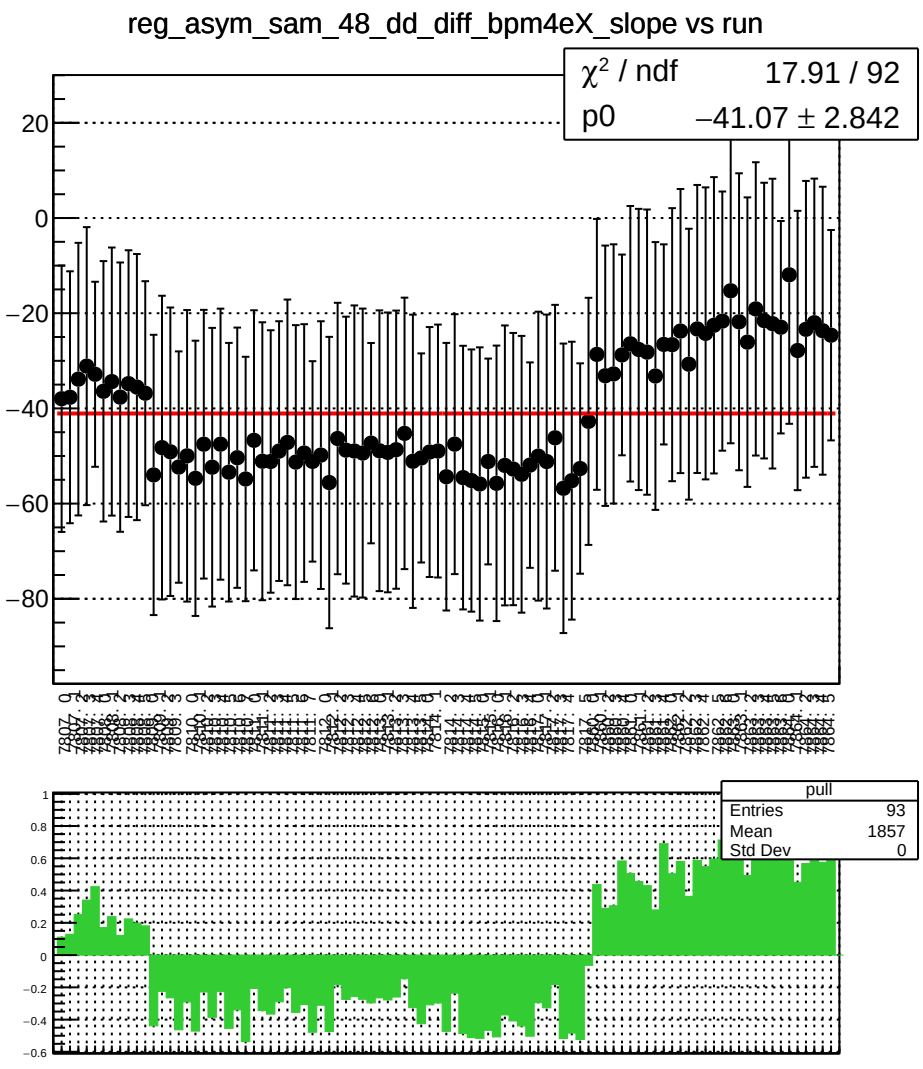

pull1D
Entries 93
Mean −0.0004224
Std Dev 0.1779

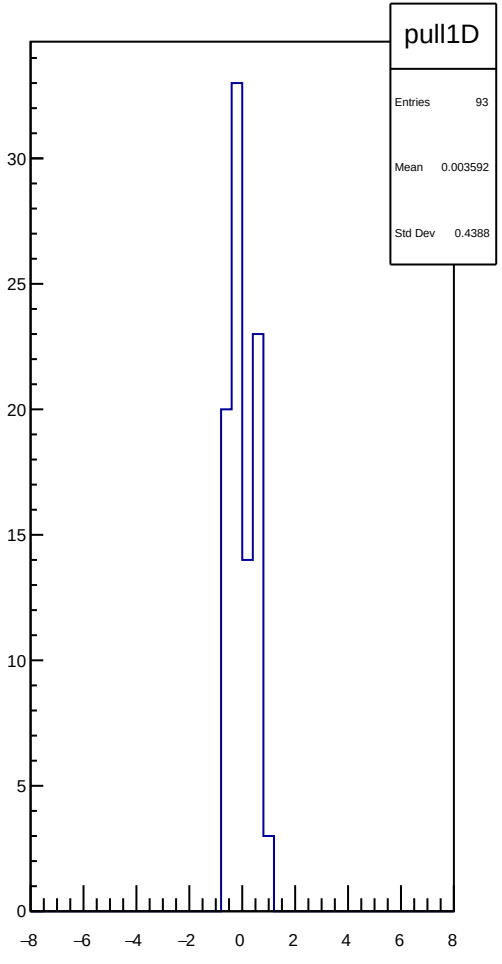

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 38.41 / 92
p0 −1.805 ± 0.1342
pull
Entries 93
Mean 213.5
Std Dev 0
pull1D
Entries 93
Mean −0.04859
Std Dev 0.6408

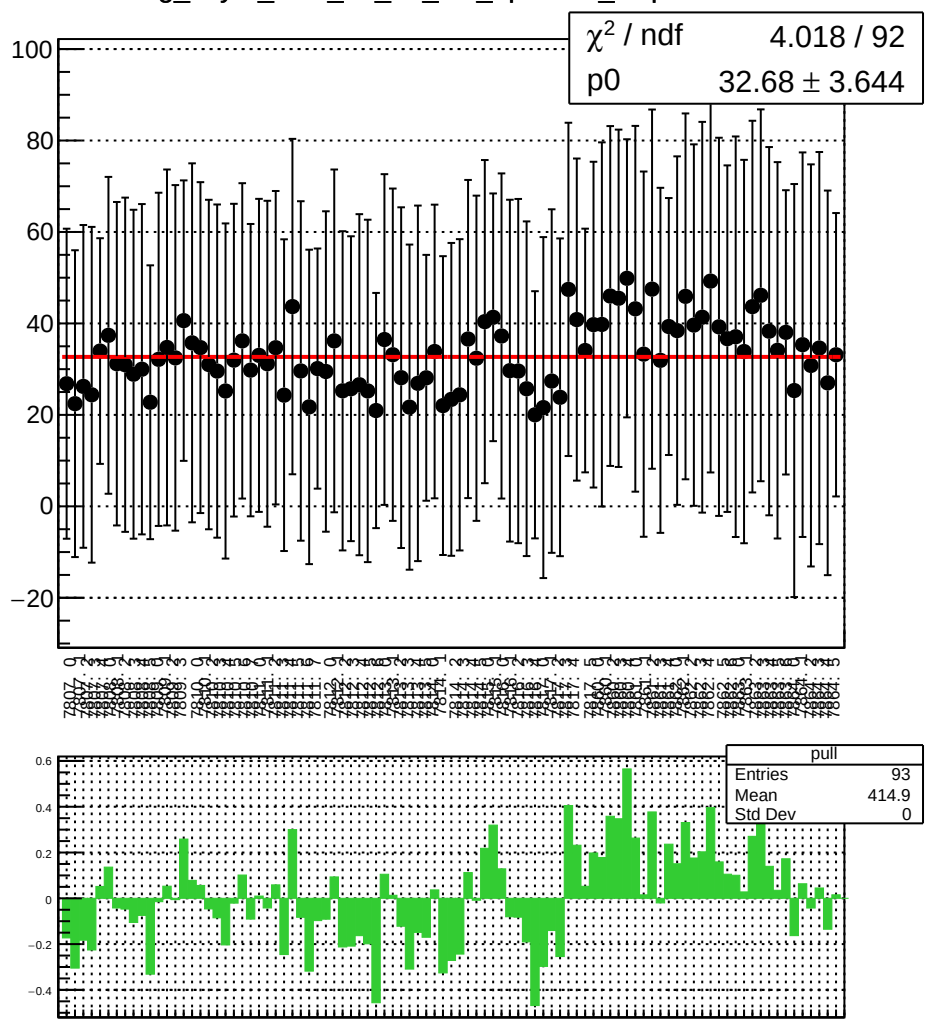

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 24.25 / 92
p0 −51.9 ± 3.143
pull
Entries 93
Mean 484.2
Std Dev 0

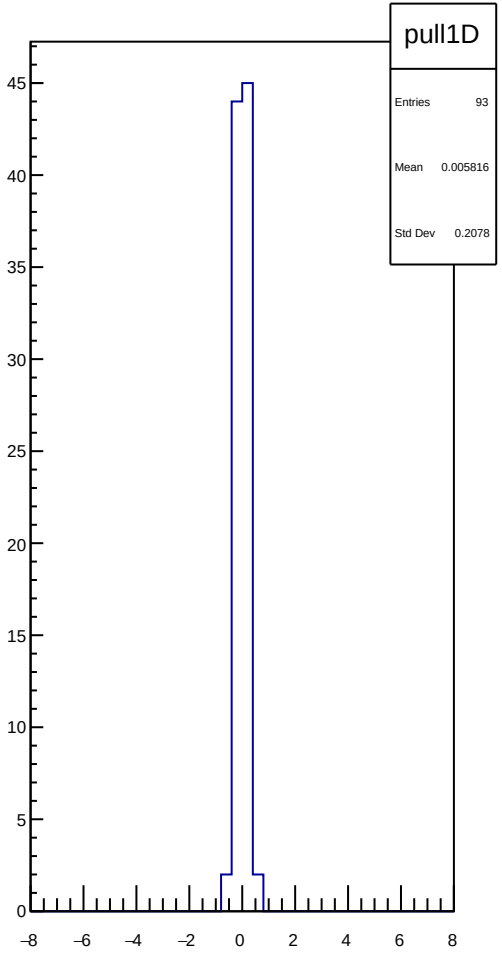

pull1D
Entries 93
Mean −0.01692
Std Dev 0.5103

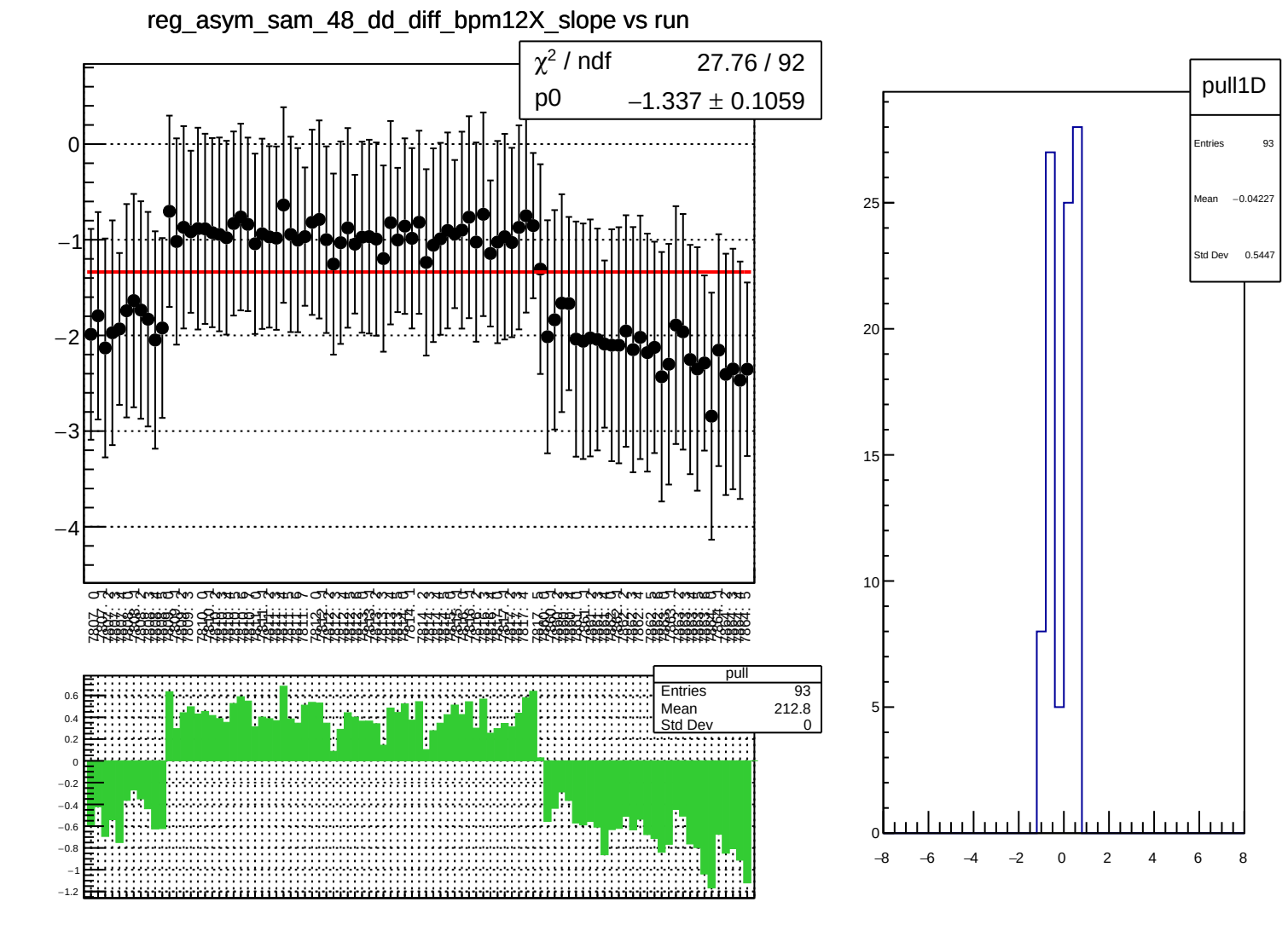

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.956 / 92
p0 79.68 ± 3.197
pull
Entries 93
Mean 654.4
Std Dev 0
pull1D
Entries 93
Mean −0.003688
Std Dev 0.2308

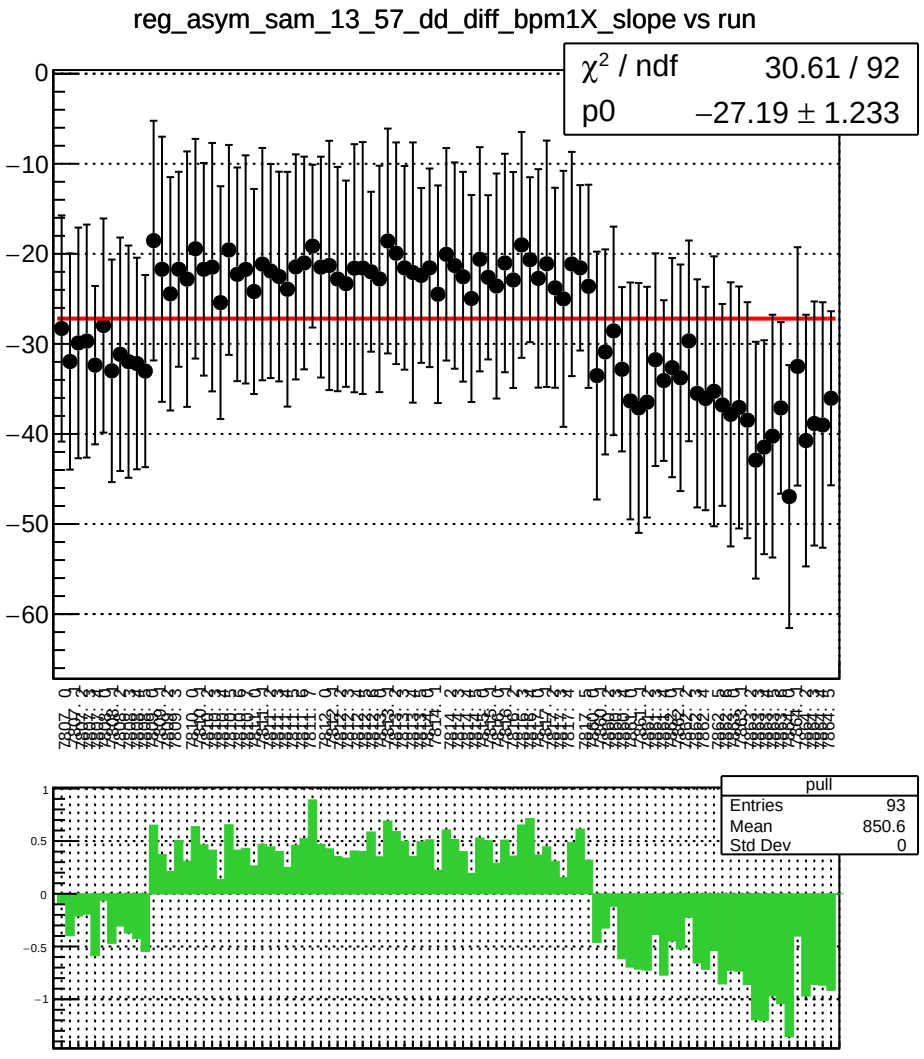

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 17.91 / 92
p0 −41.07 ± 2.842
pull
Entries 93
Mean 1857
Std Dev 0

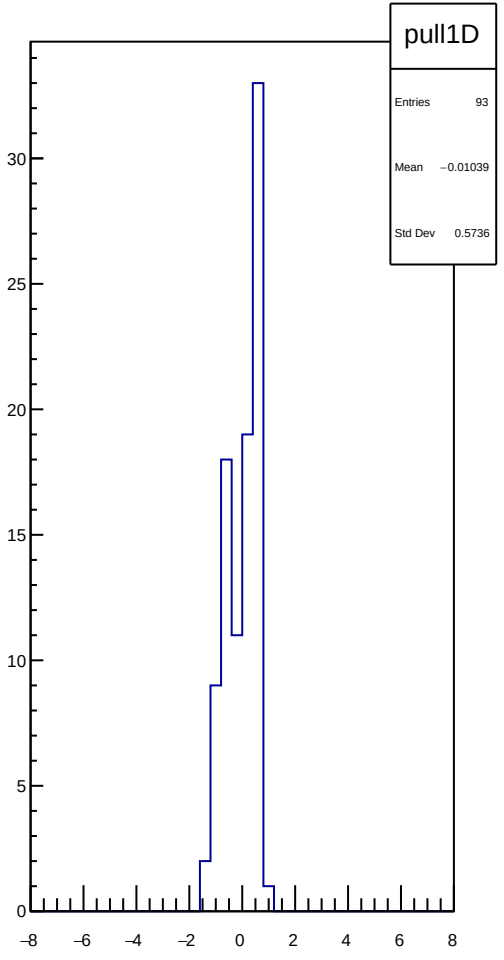

pull1D
Entries 93
Mean 0.003592
Std Dev 0.4388

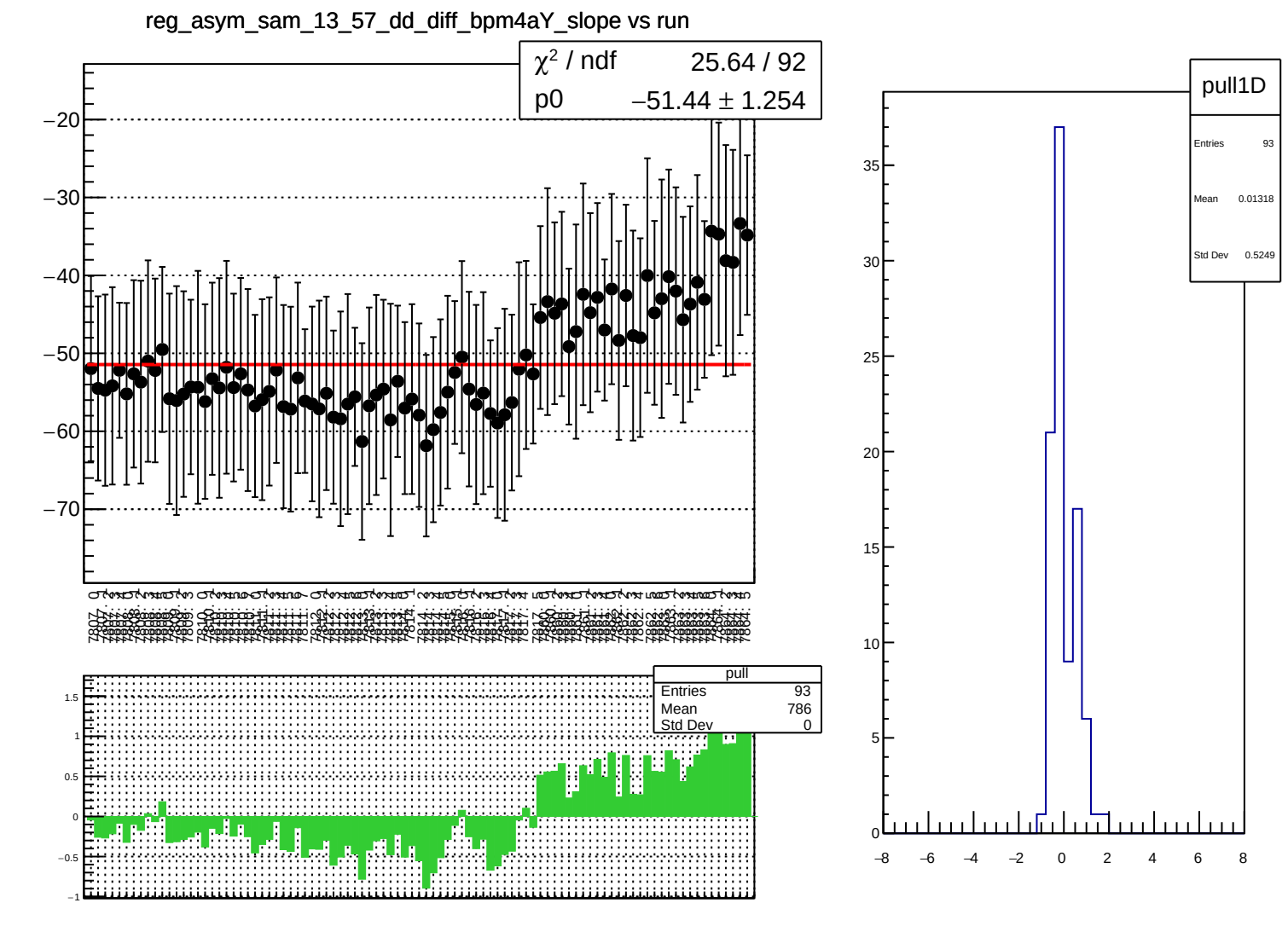

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.018 / 92
p0 32.68 ± 3.644
pull
Entries 93
Mean 414.9
Std Dev 0

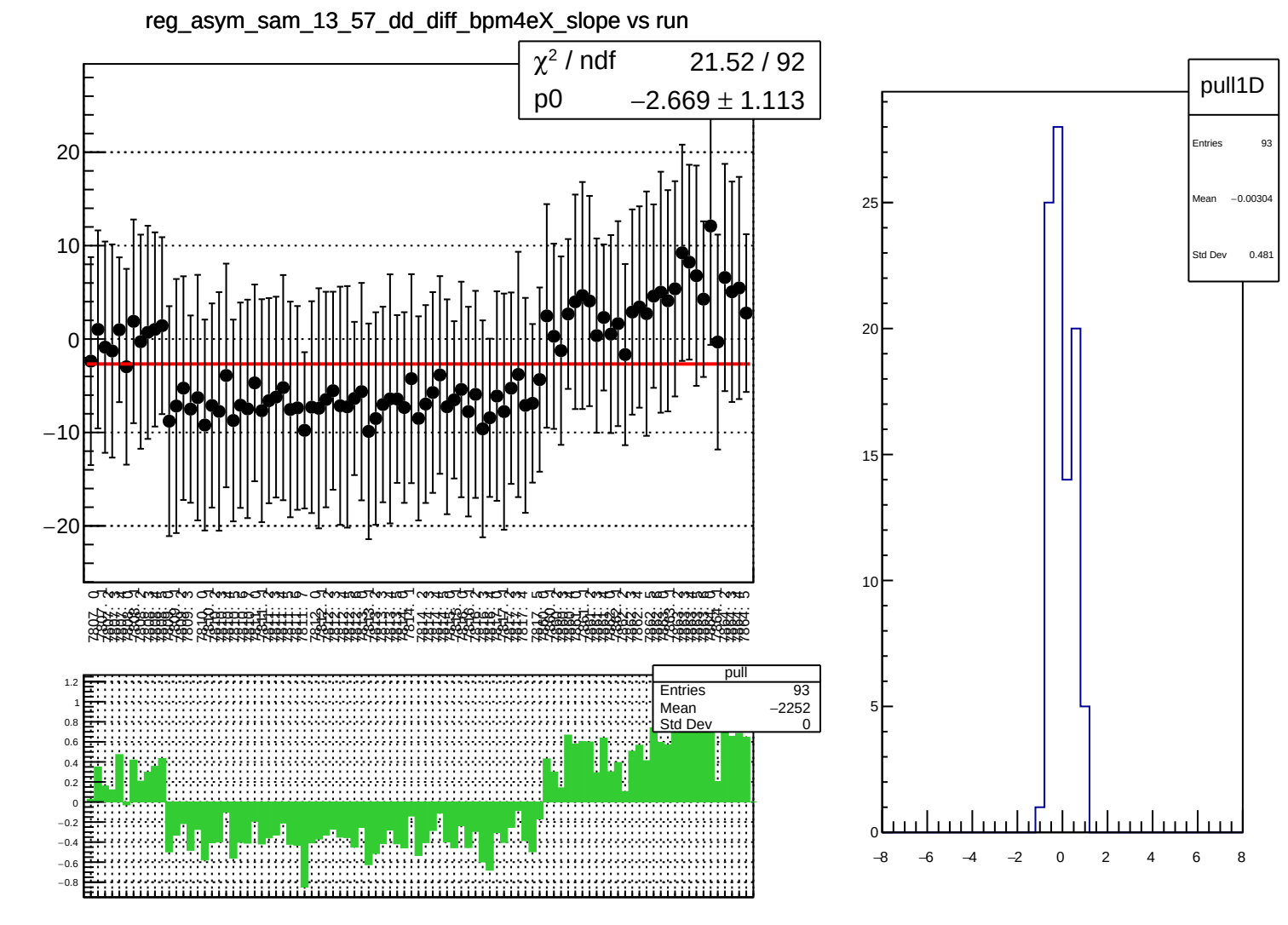

pull1D
Entries 93
Mean 0.005816
Std Dev 0.2078

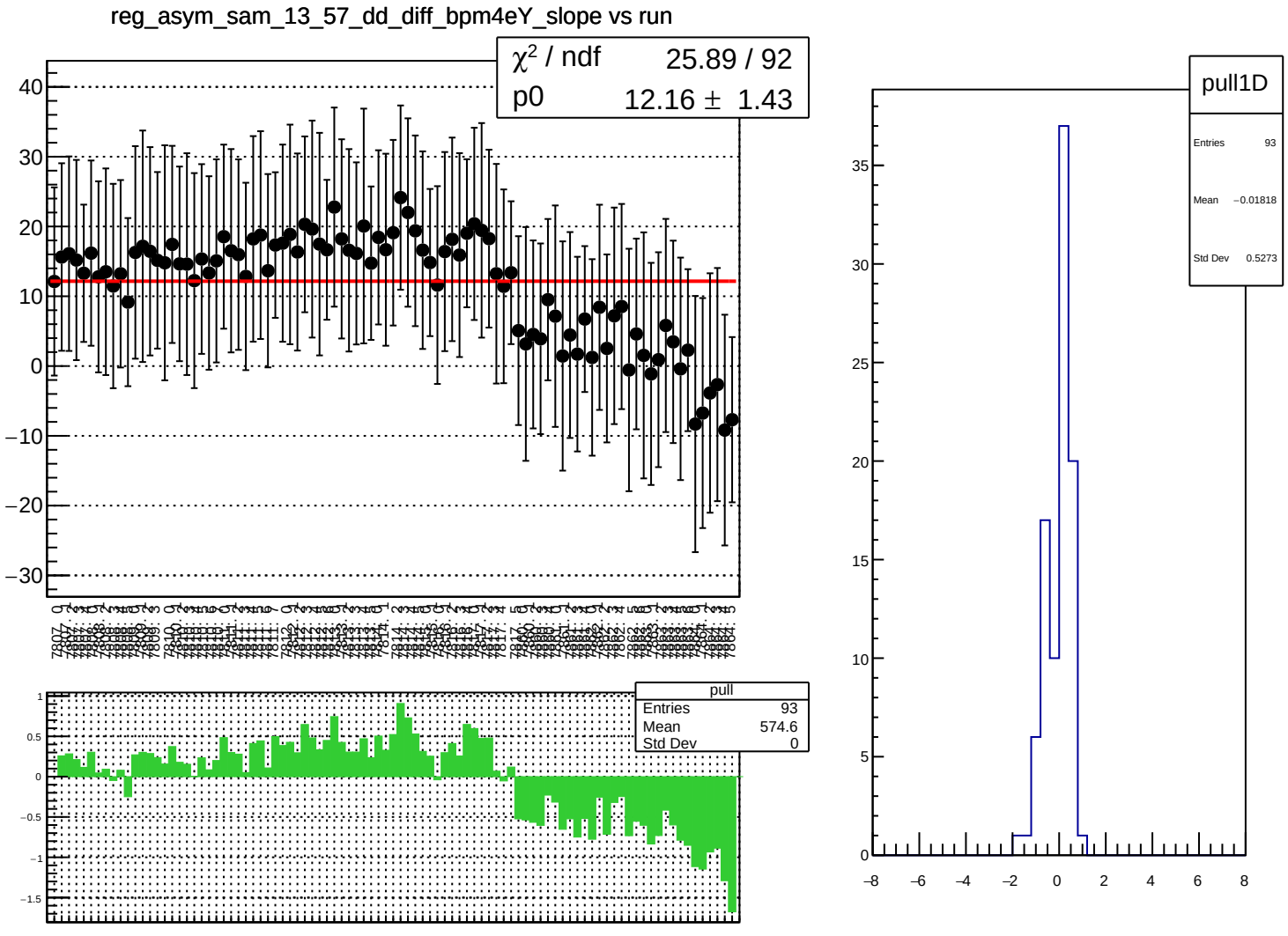

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 27.76 / 92
p0 −1.337 ± 0.1059
pull
Entries 93
Mean 212.8
Std Dev 0
pull1D
Entries 93
Mean −0.04227
Std Dev 0.5447

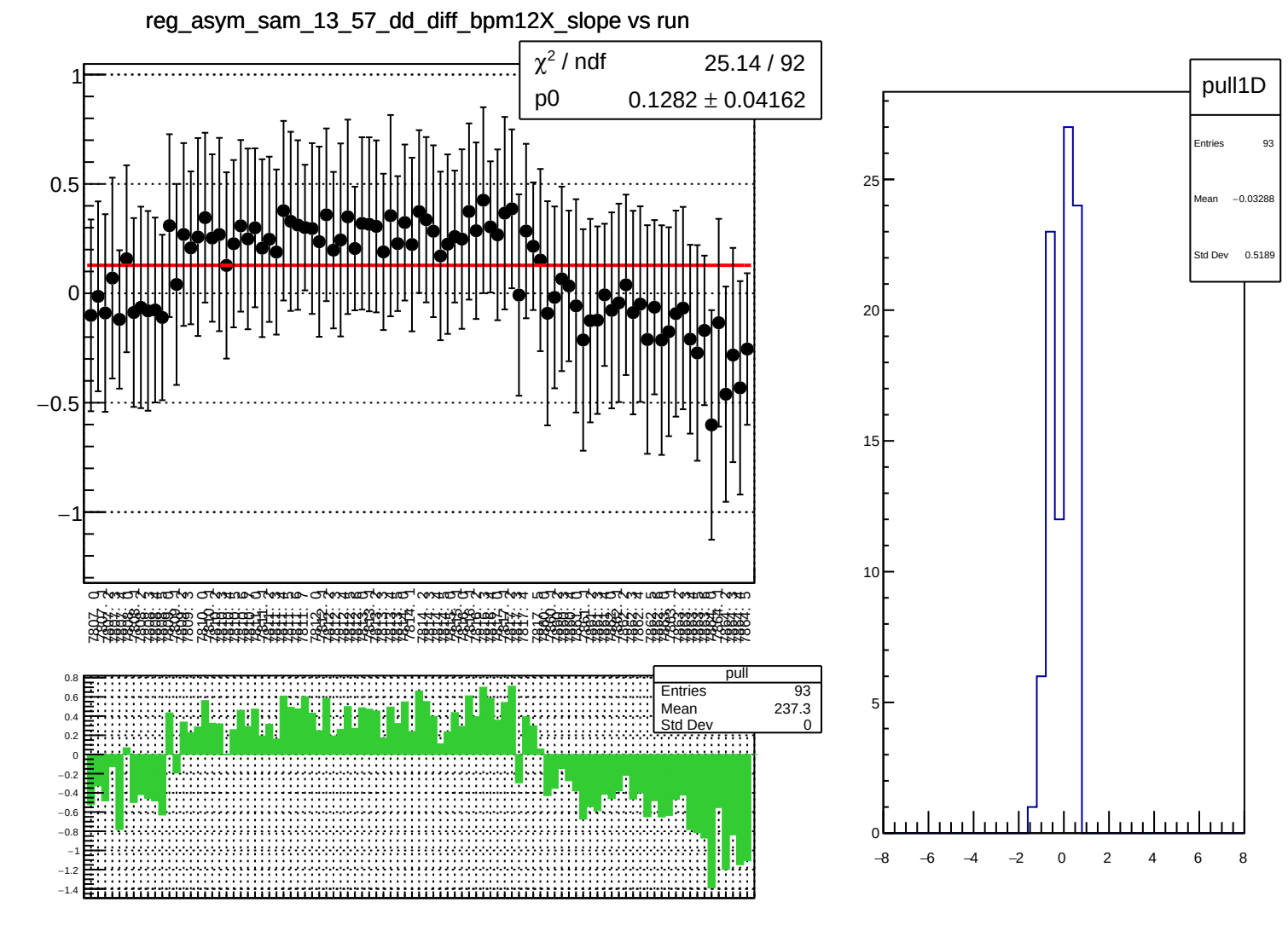

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 30.61 / 92
p0 −27.19 ± 1.233
pull
Entries 93
Mean 850.6
Std Dev 0

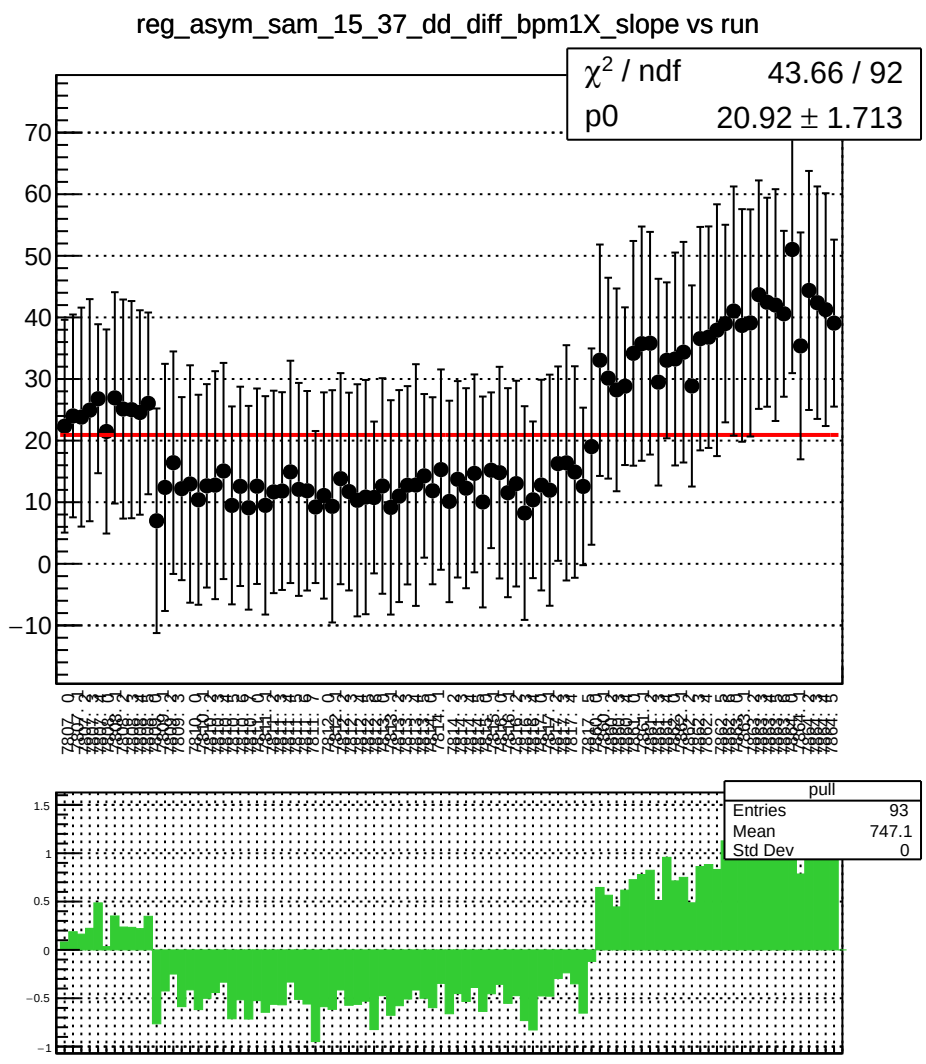

pull1D
Entries 93
Mean −0.01039
Std Dev 0.5736

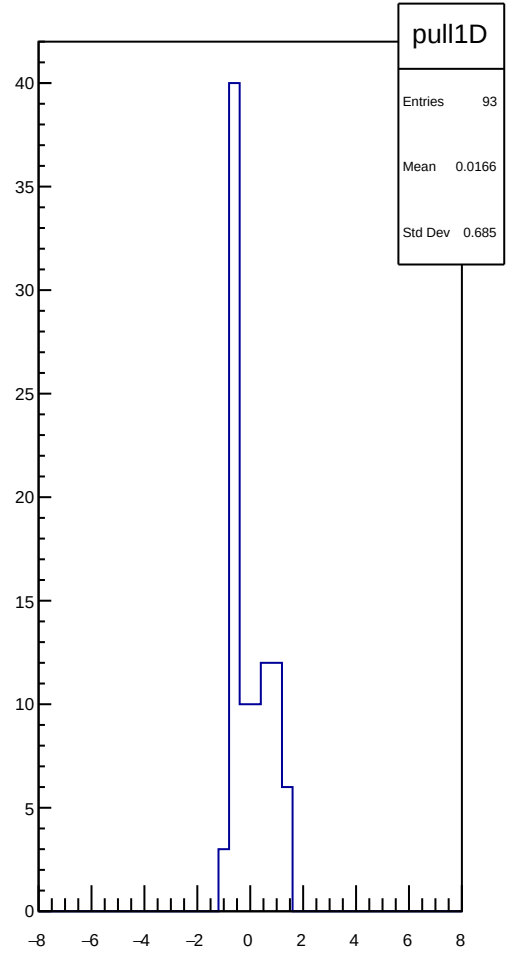

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 25.64 / 92
p0 −51.44 ± 1.254
pull
Entries 93
Mean 786
Std Dev 0
pull1D
Entries 93
Mean 0.01318
Std Dev 0.5249

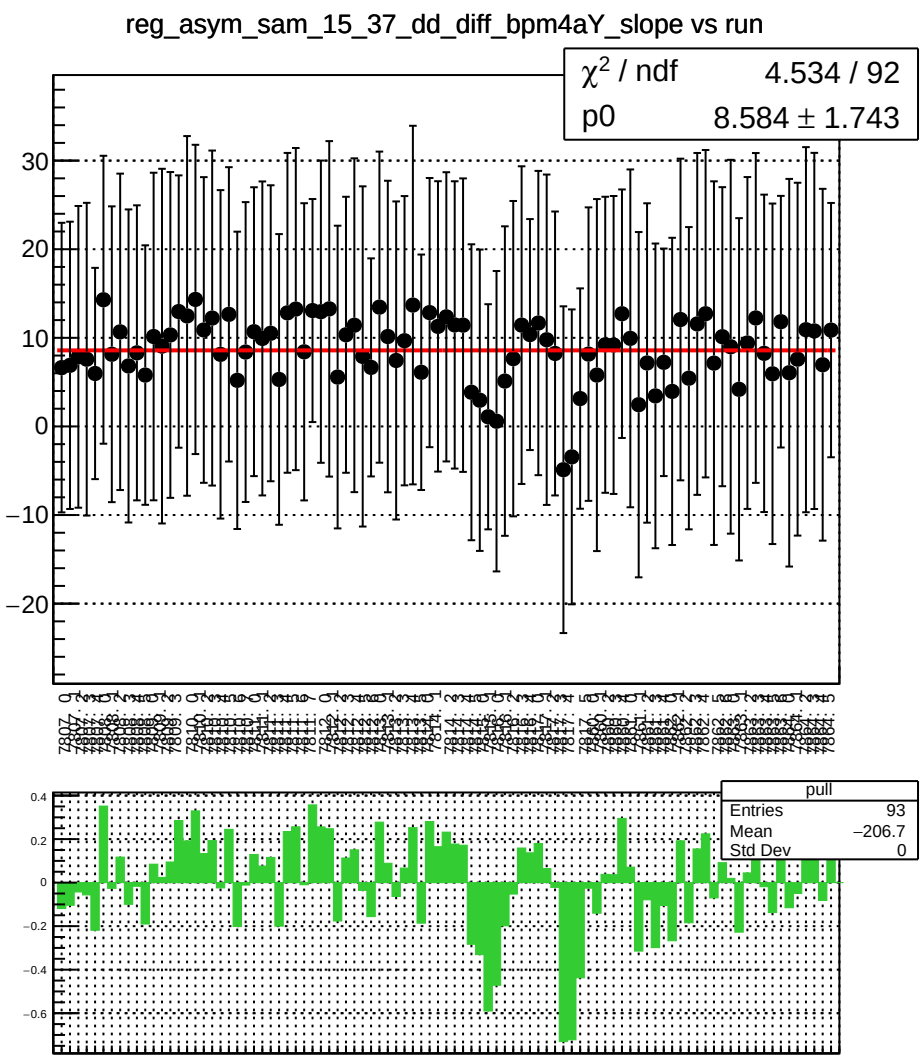

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 21.52 / 92
p0 −2.669 ± 1.113
pull
Entries 93
Mean −2252
Std Dev 0
pull1D
Entries 93
Mean −0.00304
Std Dev 0.481

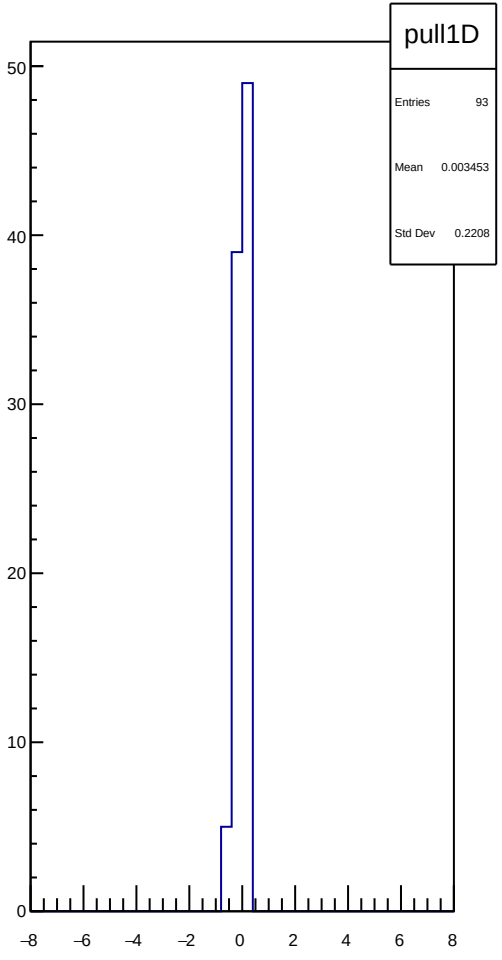

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 25.89 / 92
p0 12.16 ± 1.43
pull
Entries 93
Mean 574.6
Std Dev 0
pull1D
Entries 93
Mean −0.01818
Std Dev 0.5273

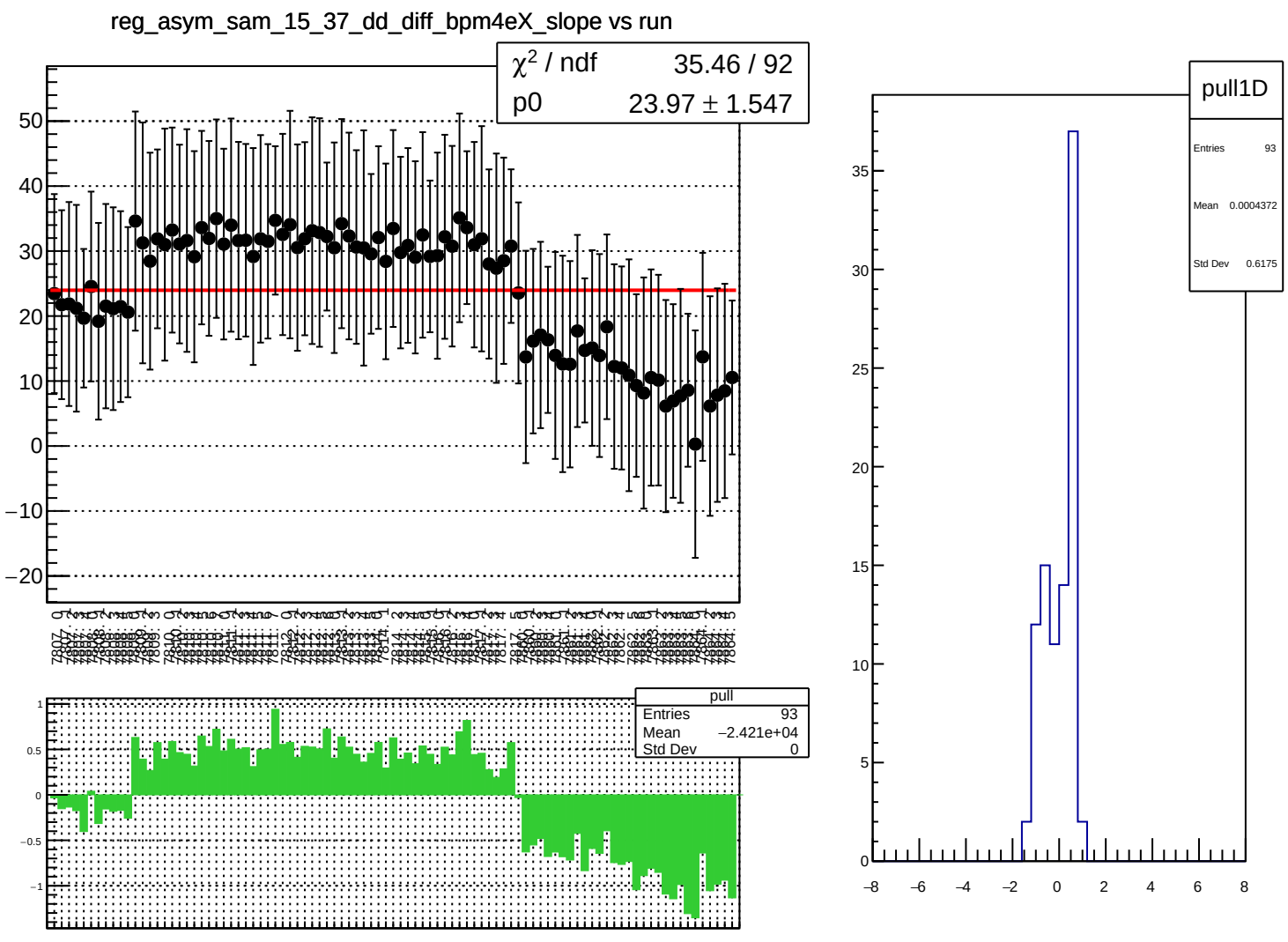

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 25.14 / 92
p0 0.1282 ± 0.04162
pull
Entries 93
Mean 237.3
Std Dev 0
pull1D
Entries 93
Mean −0.03288
Std Dev 0.5189

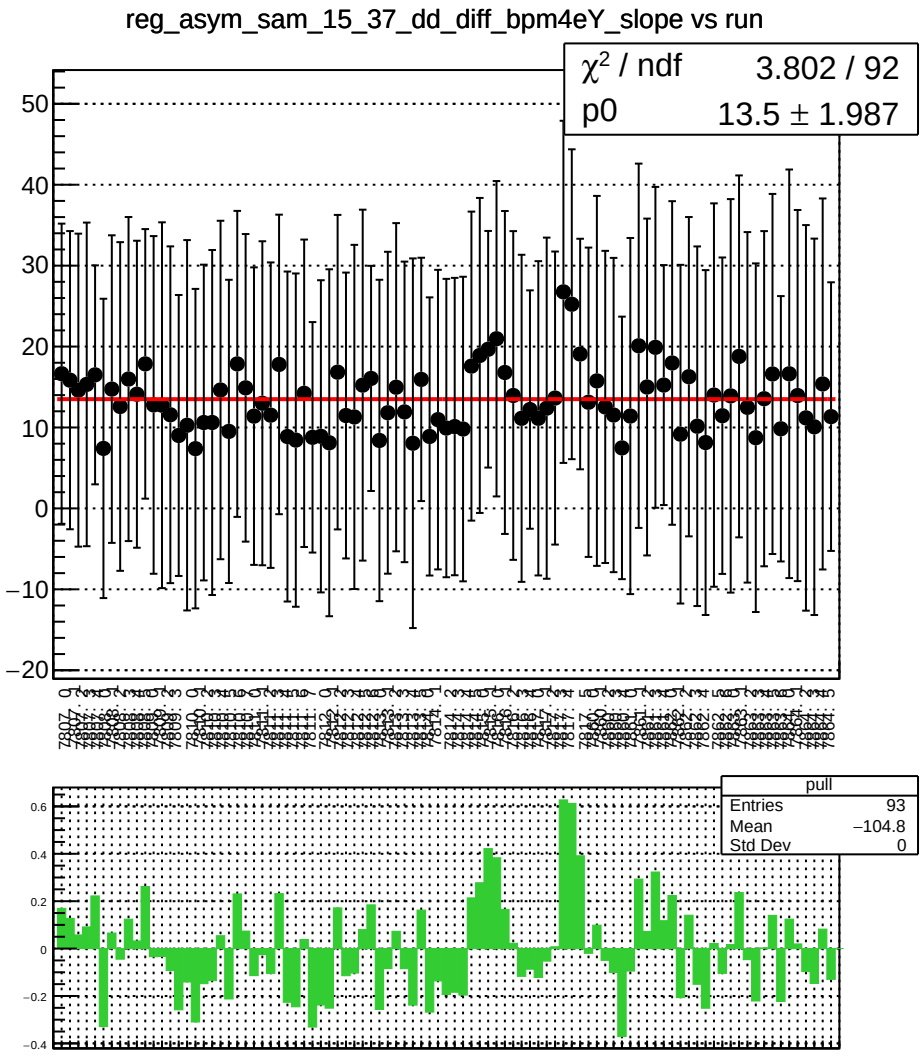

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 43.66 / 92
p0 20.92 ± 1.713
pull
Entries 93
Mean 747.1
Std Dev 0

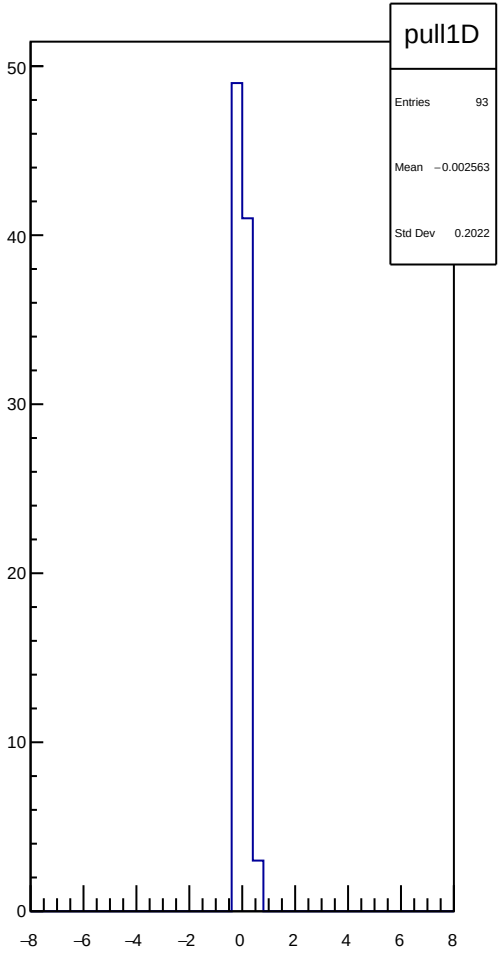

pull1D
Entries 93
Mean 0.0166
Std Dev 0.685

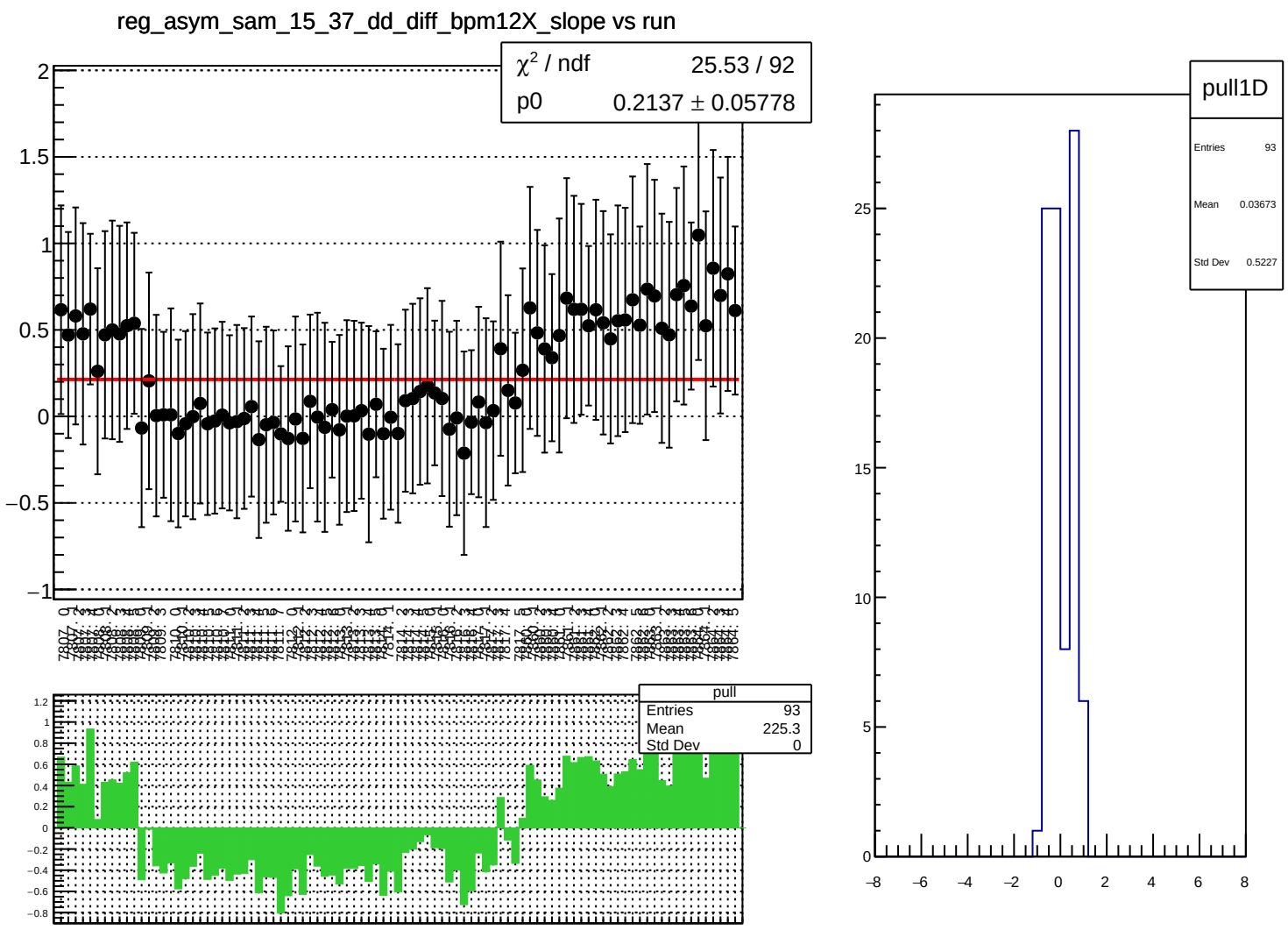

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.534 / 92
p0 8.584 ± 1.743
pull
Entries 93
Mean −206.7
Std Dev 0

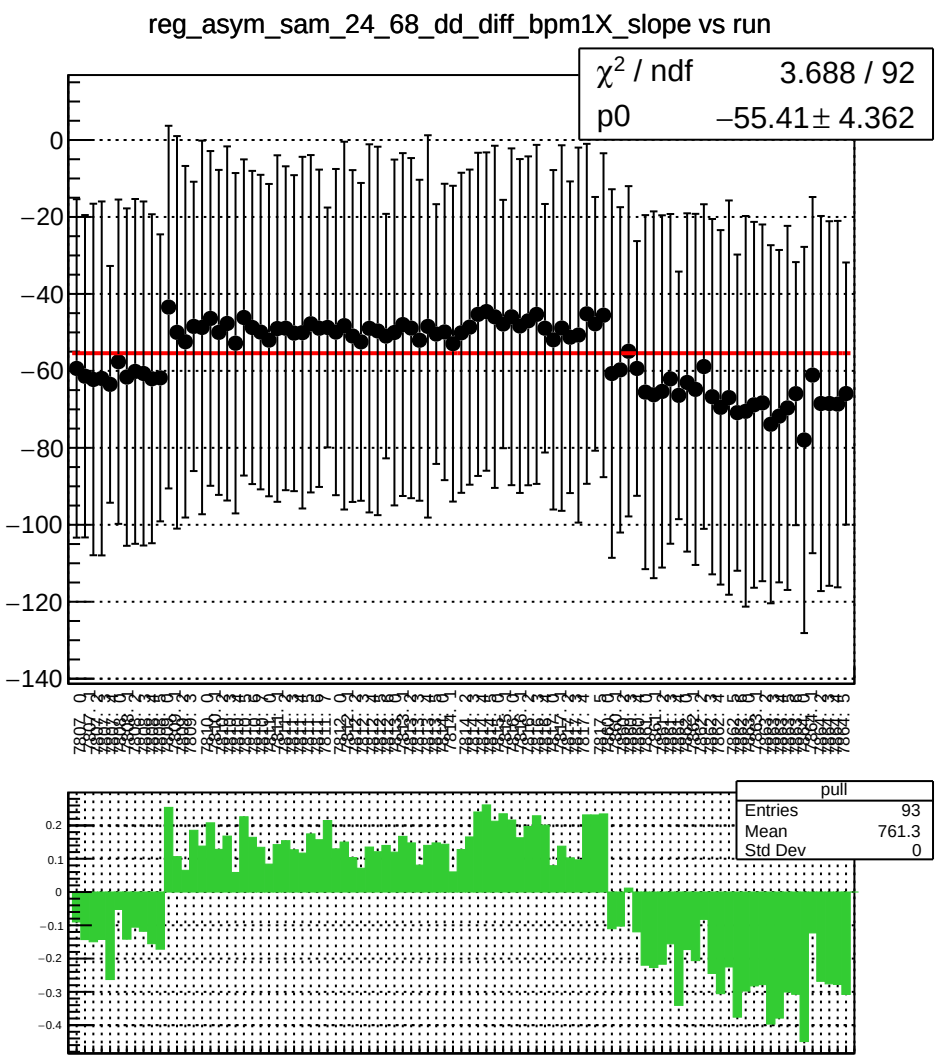

pull1D
Entries 93
Mean 0.003453
Std Dev 0.2208

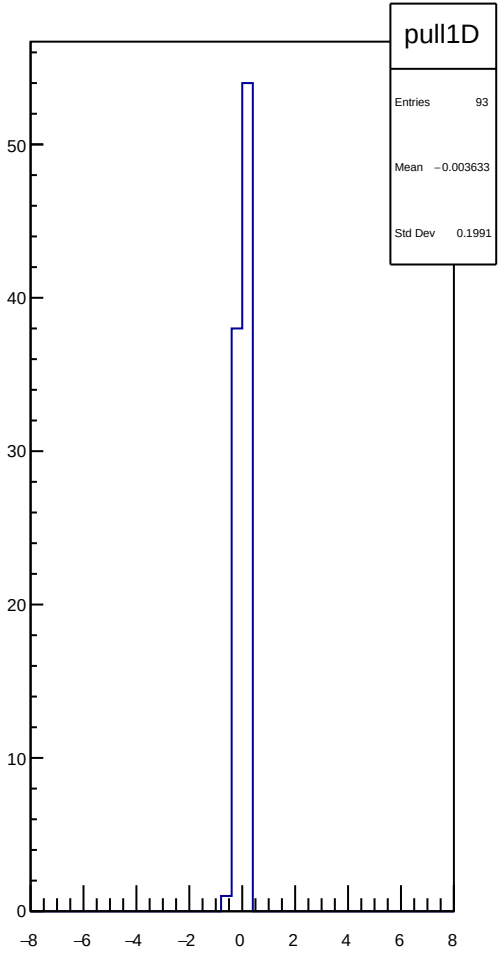

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 35.46 / 92
p0 23.97 ± 1.547
pull
Entries 93
Mean −2.421e+04
Std Dev 0
pull1D
Entries 93
Mean 0.0004372
Std Dev 0.6175

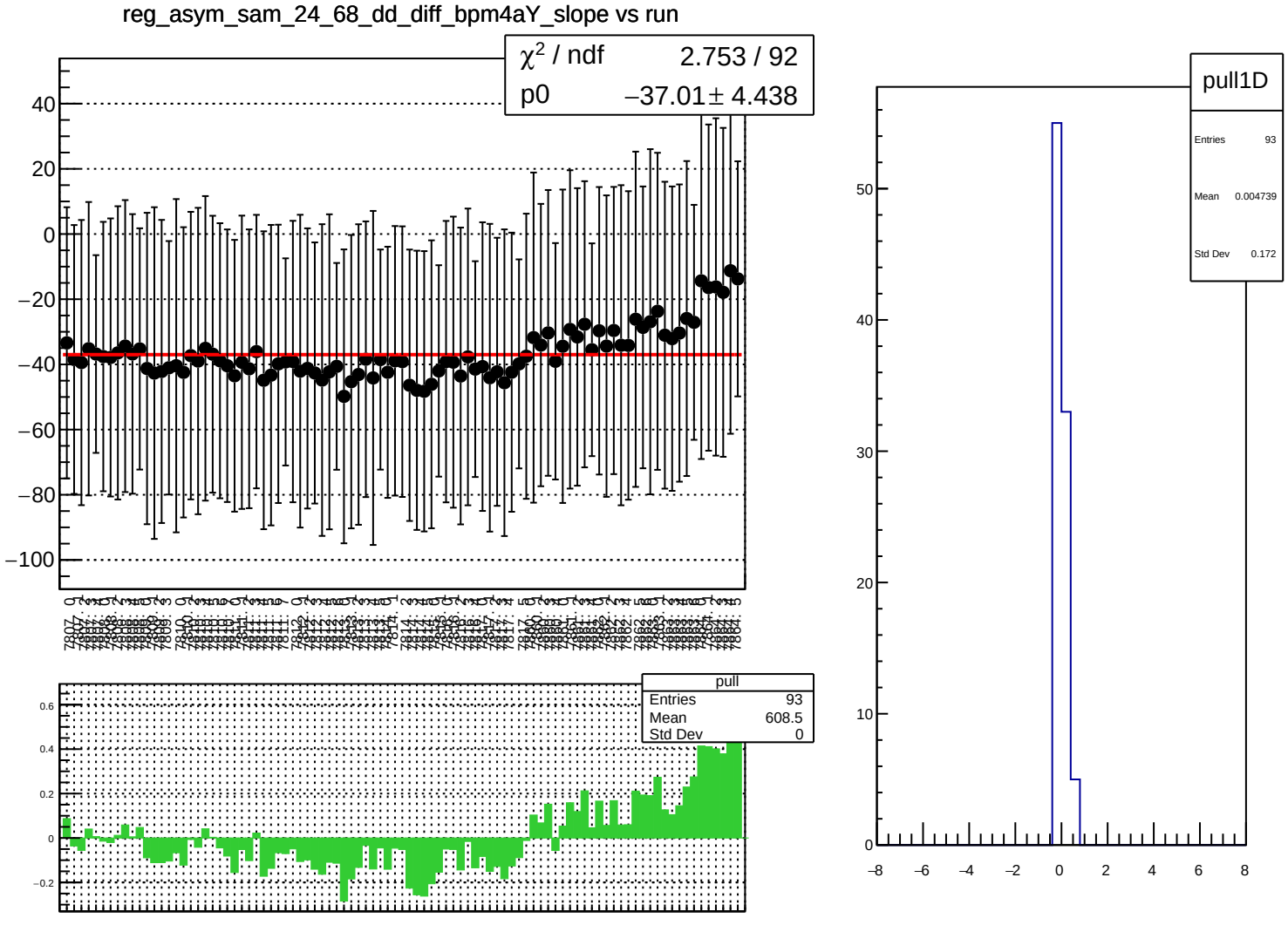

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.802 / 92
p0 13.5 ± 1.987
pull
Entries 93
Mean −104.8
Std Dev 0

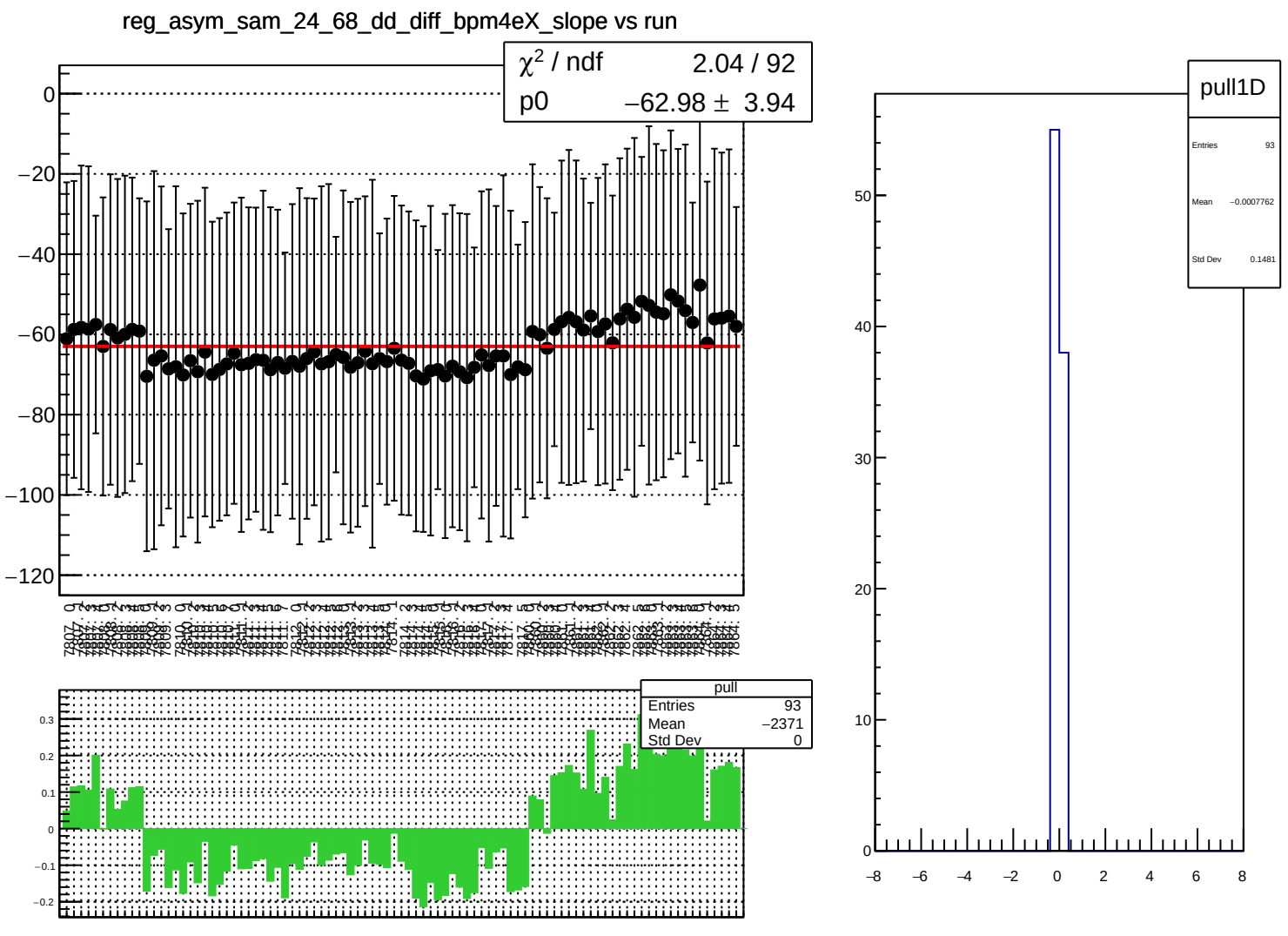

pull1D
Entries 93
Mean −0.002563
Std Dev 0.2022

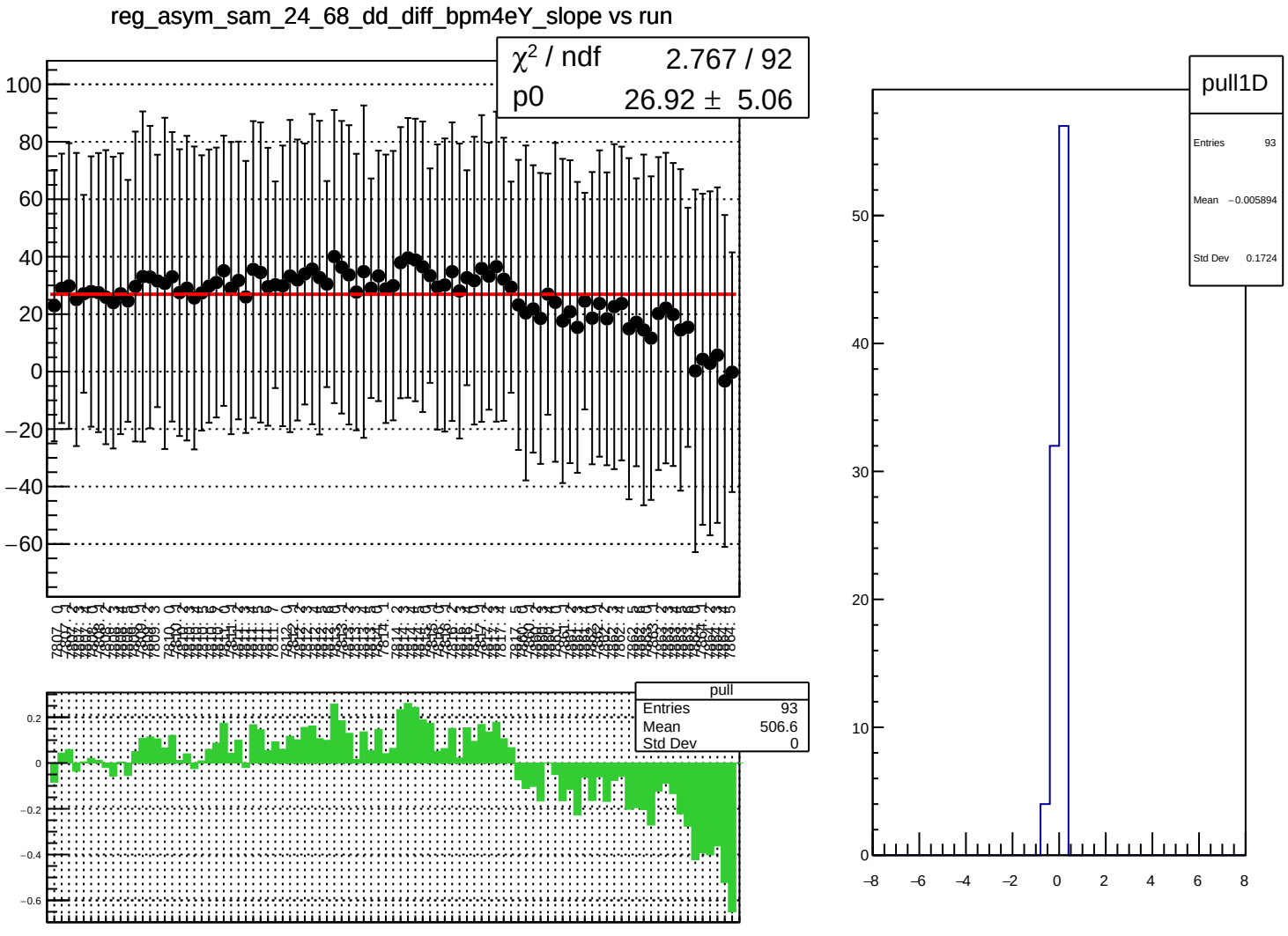

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 25.53 / 92
p0 0.2137 ± 0.05778
pull
Entries 93
Mean 225.3
Std Dev 0
pull1D
Entries 93
Mean 0.03673
Std Dev 0.5227

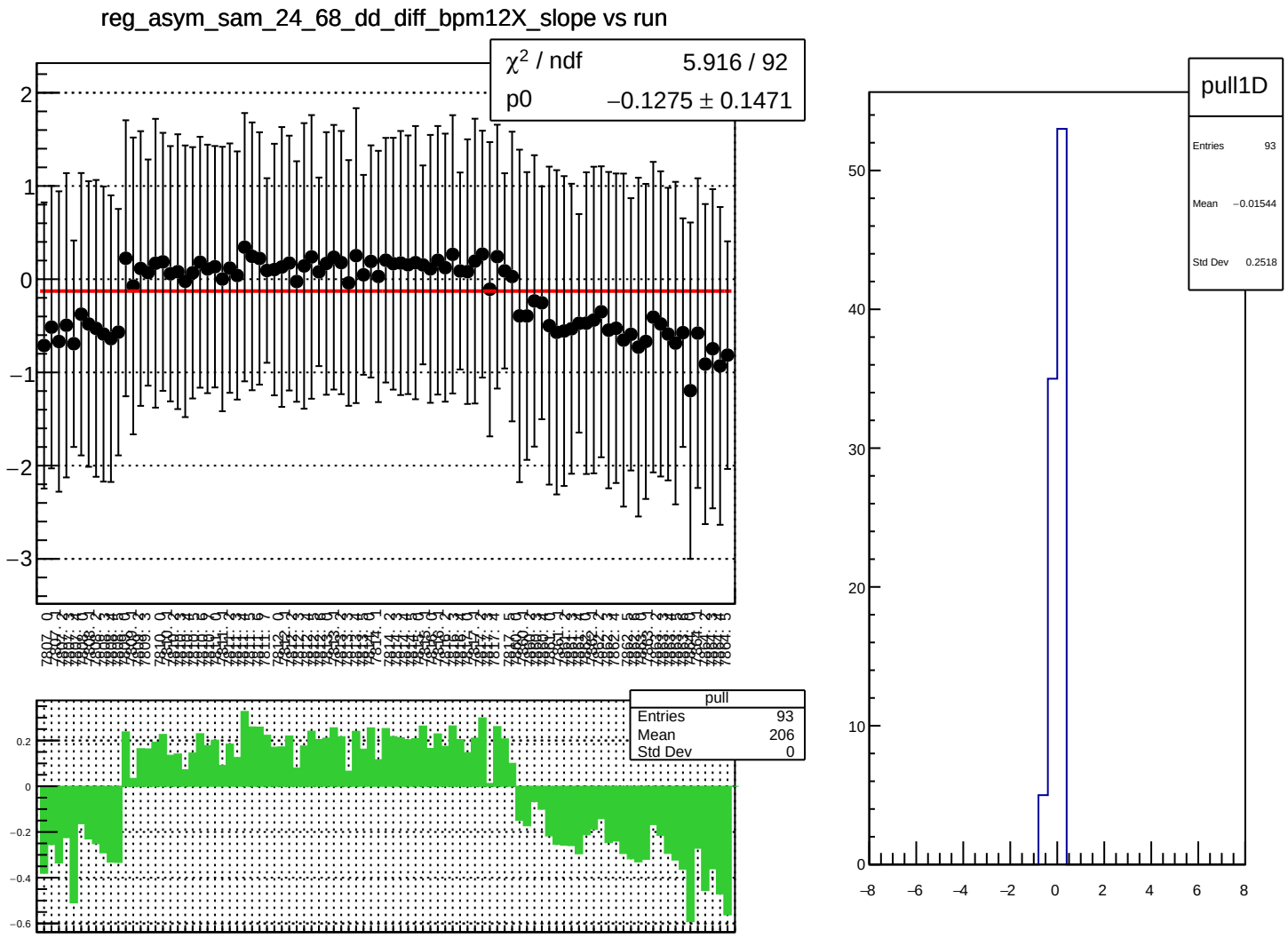

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 3.688 / 92
p0 −55.41 ± 4.362
pull
Entries 93
Mean 761.3
Std Dev 0

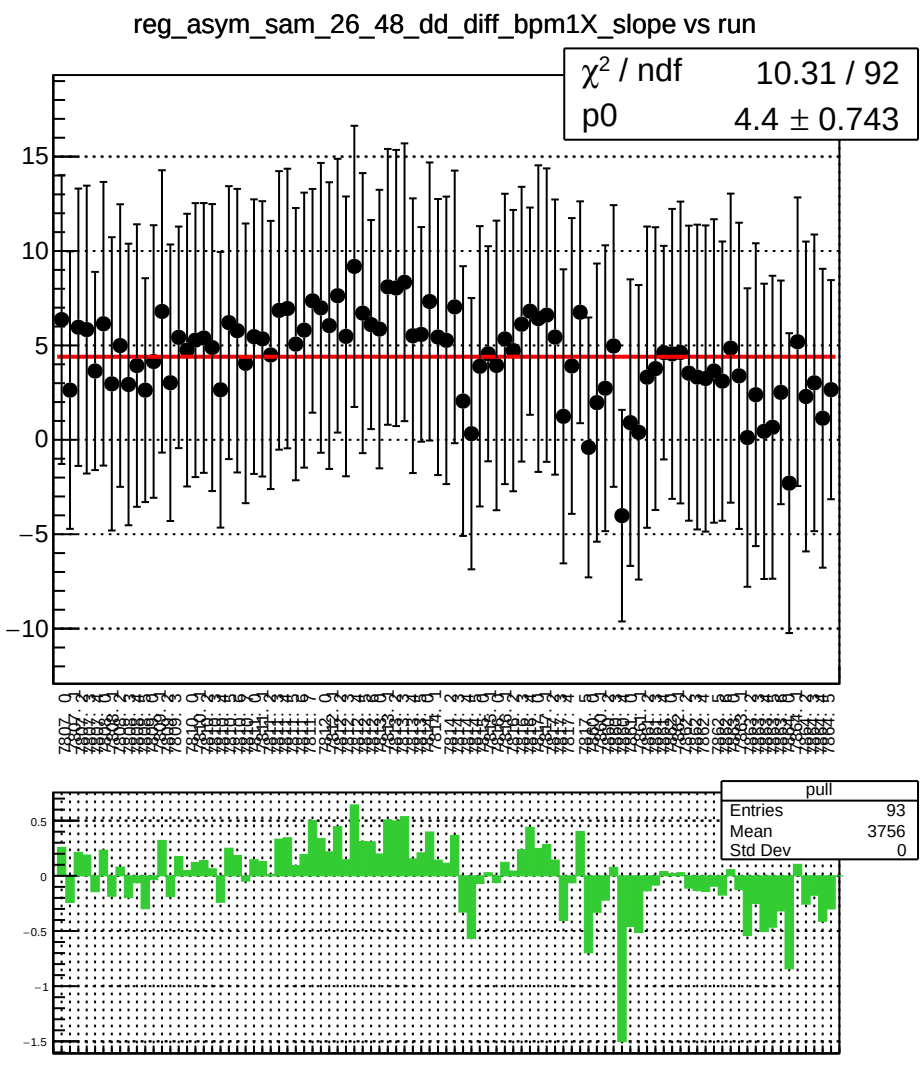

pull1D
Entries 93
Mean −0.003633
Std Dev 0.1991

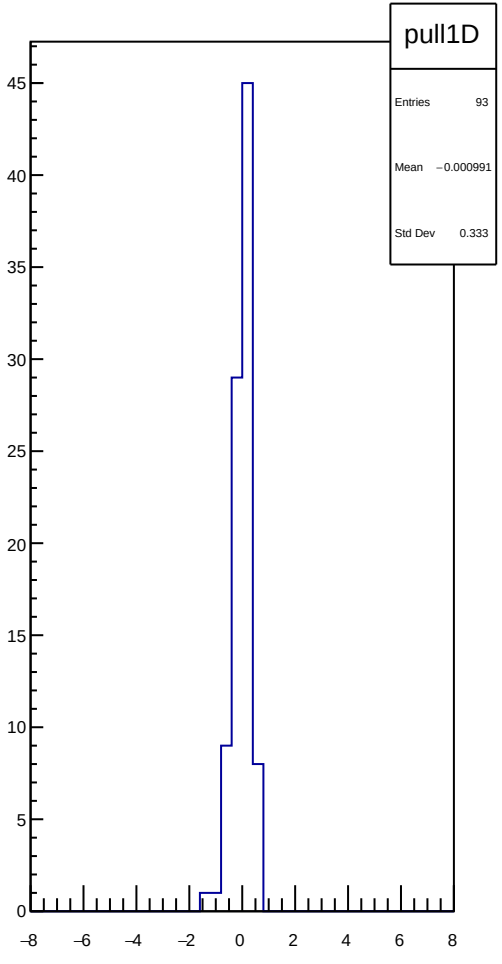

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.753 / 92
p0 −37.01 ± 4.438
pull
Entries 93
Mean 608.5
Std Dev 0
pull1D
Entries 93
Mean 0.004739
Std Dev 0.172

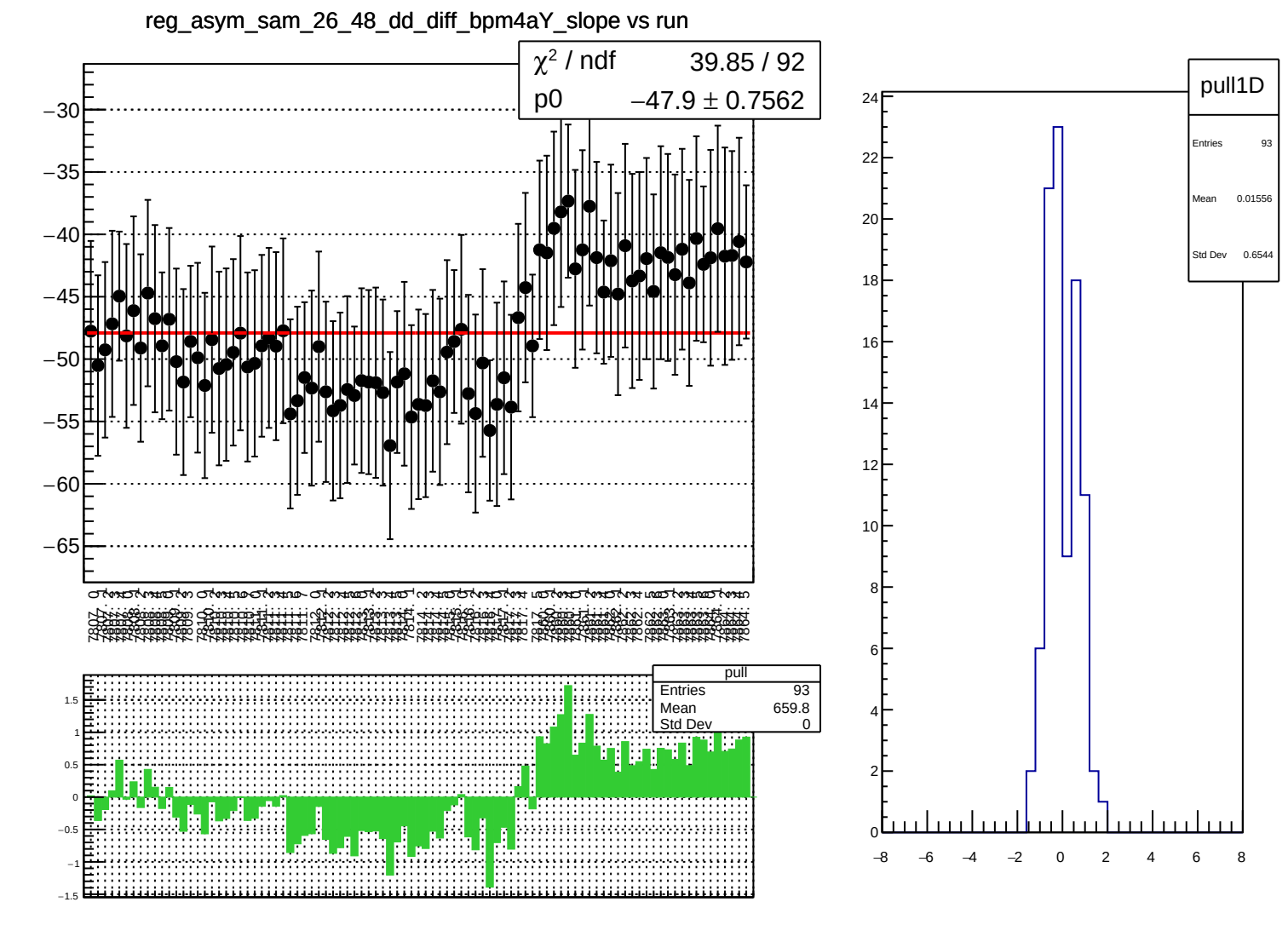

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.04 / 92
p0 −62.98 ± 3.94
pull
Entries 93
Mean −2371
Std Dev 0
pull1D
Entries 93
Mean −0.0007762
Std Dev 0.1481

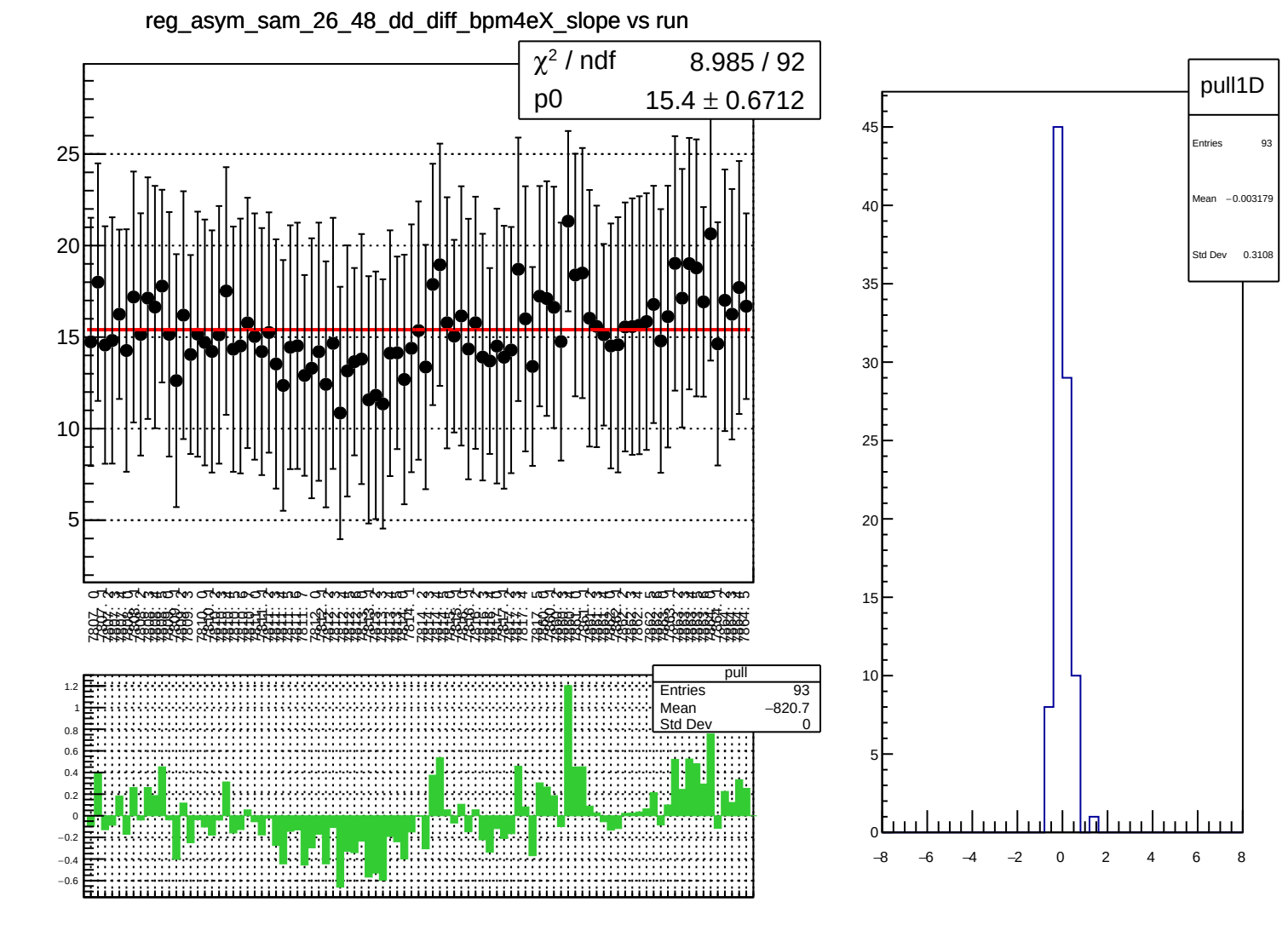

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.767 / 92
p0 26.92 ± 5.06
pull
Entries 93
Mean 506.6
Std Dev 0
pull1D
Entries 93
Mean −0.005894
Std Dev 0.1724

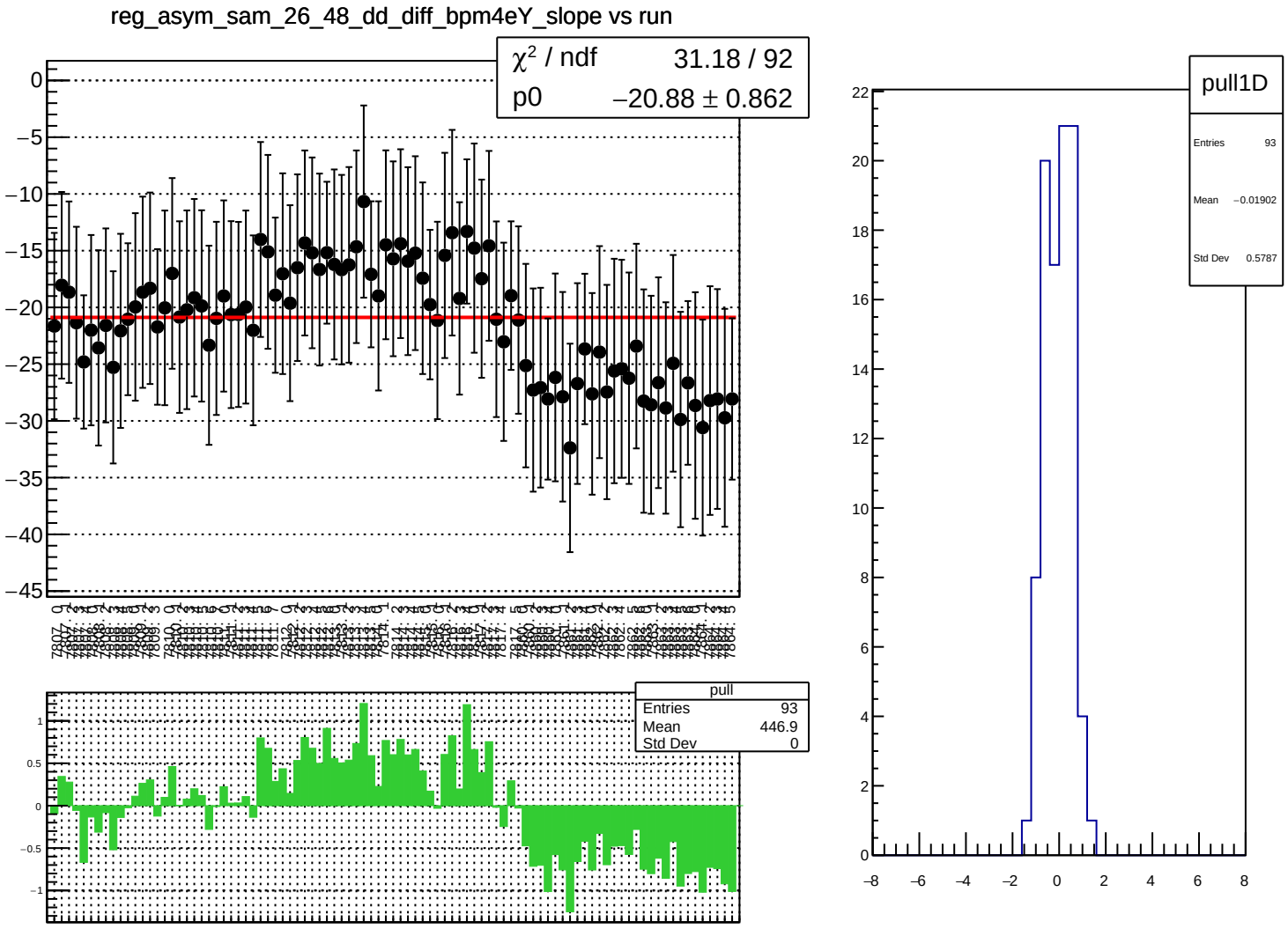

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 5.916 / 92
p0 −0.1275 ± 0.1471
pull
Entries 93
Mean 206
Std Dev 0
pull1D
Entries 93
Mean −0.01544
Std Dev 0.2518

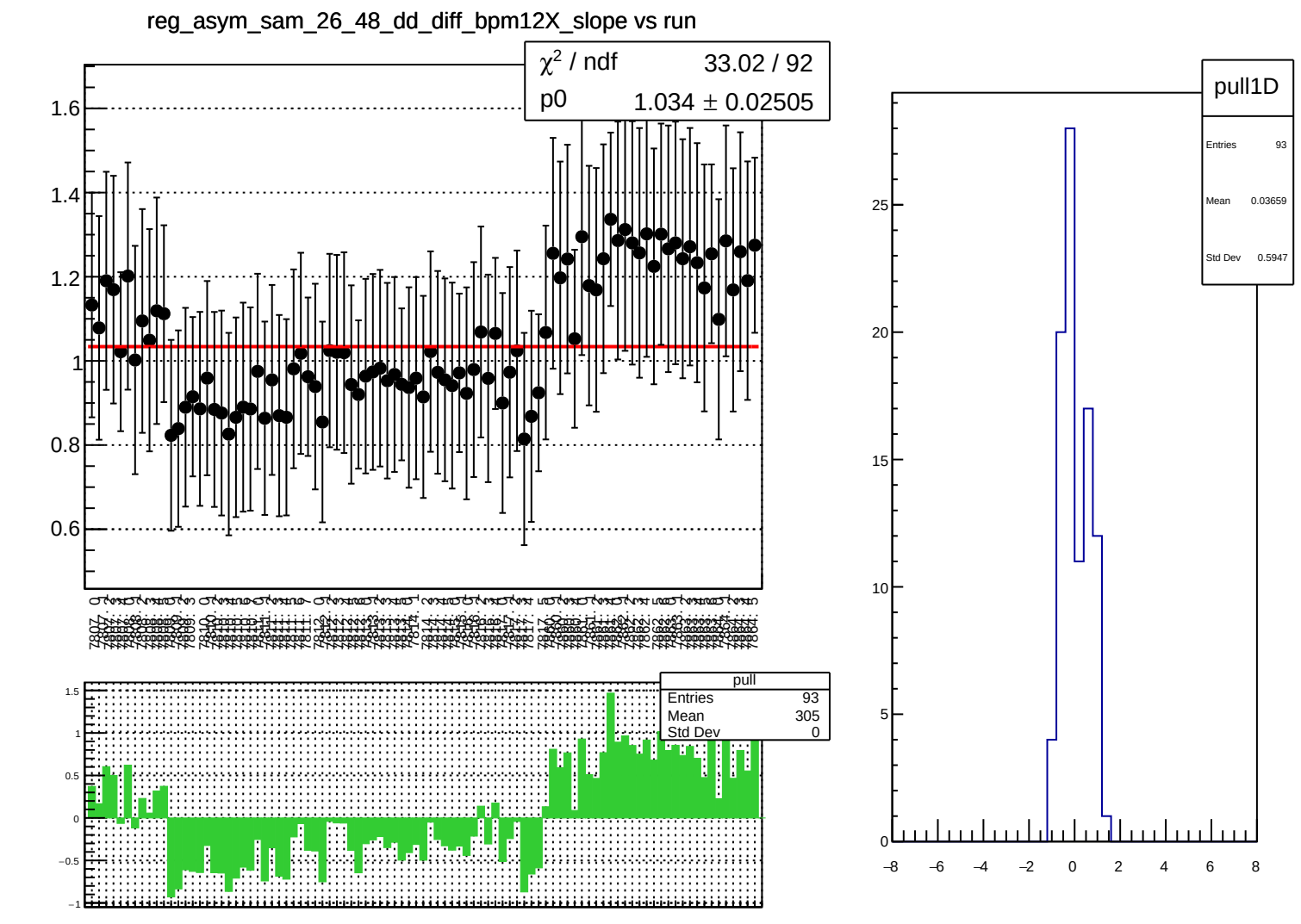

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 10.31 / 92
p0 4.4 ± 0.743
pull
Entries 93
Mean 3756
Std Dev 0

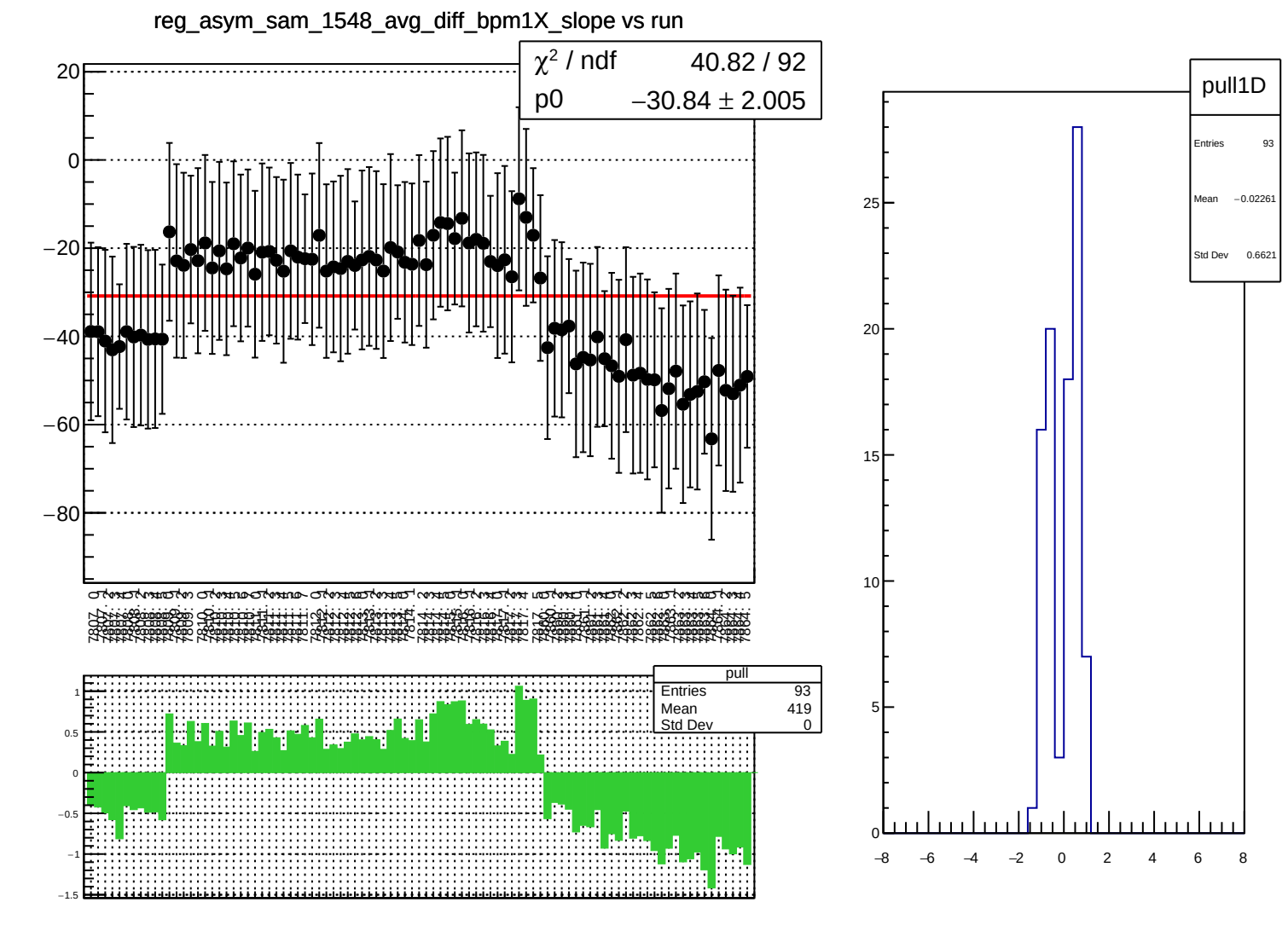

pull1D
Entries 93
Mean −0.000991
Std Dev 0.333

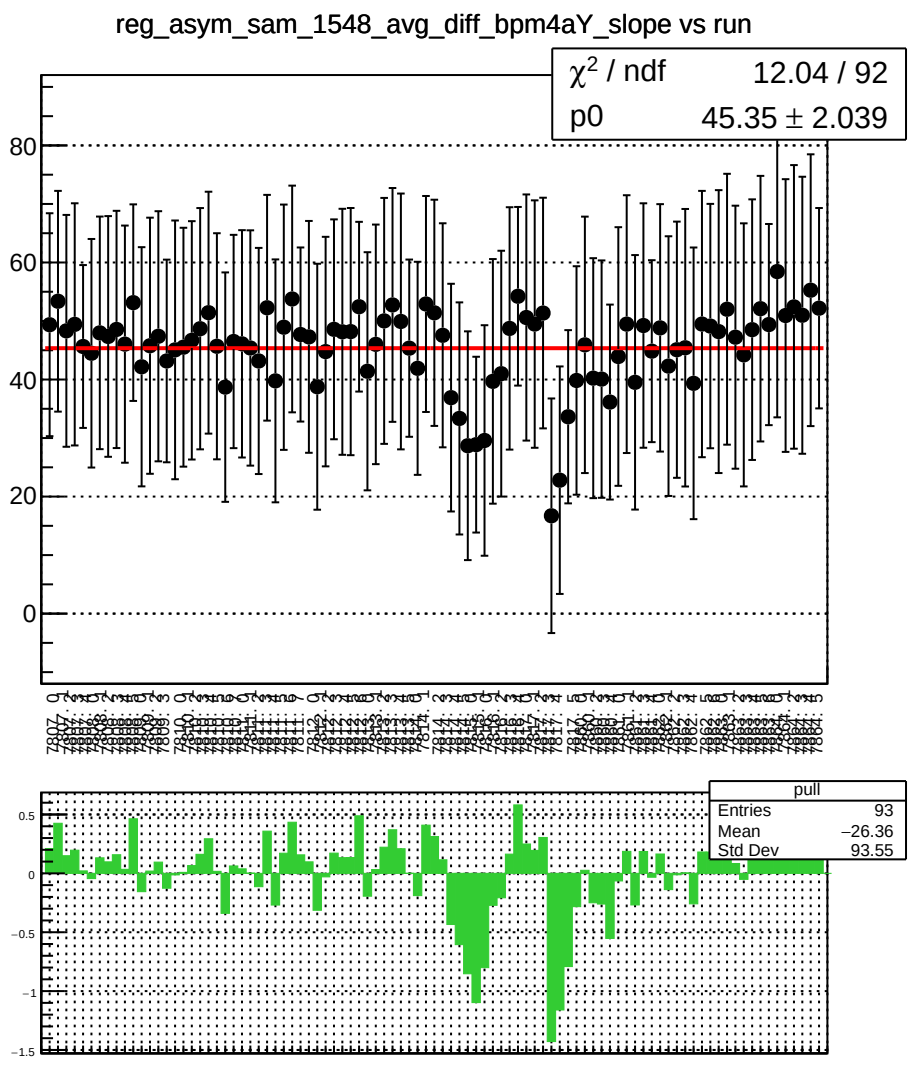

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 39.85 / 92
p0 −47.9 ± 0.7562
pull
Entries 93
Mean 659.8
Std Dev 0
pull1D
Entries 93
Mean 0.01556
Std Dev 0.6544

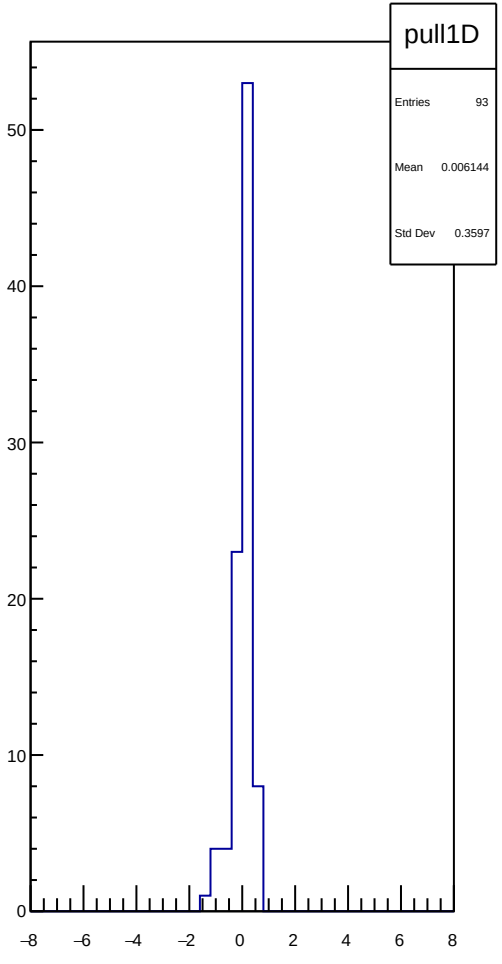

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.985 / 92
p0 15.4 ± 0.6712
pull
Entries 93
Mean −820.7
Std Dev 0
pull1D
Entries 93
Mean −0.003179
Std Dev 0.3108

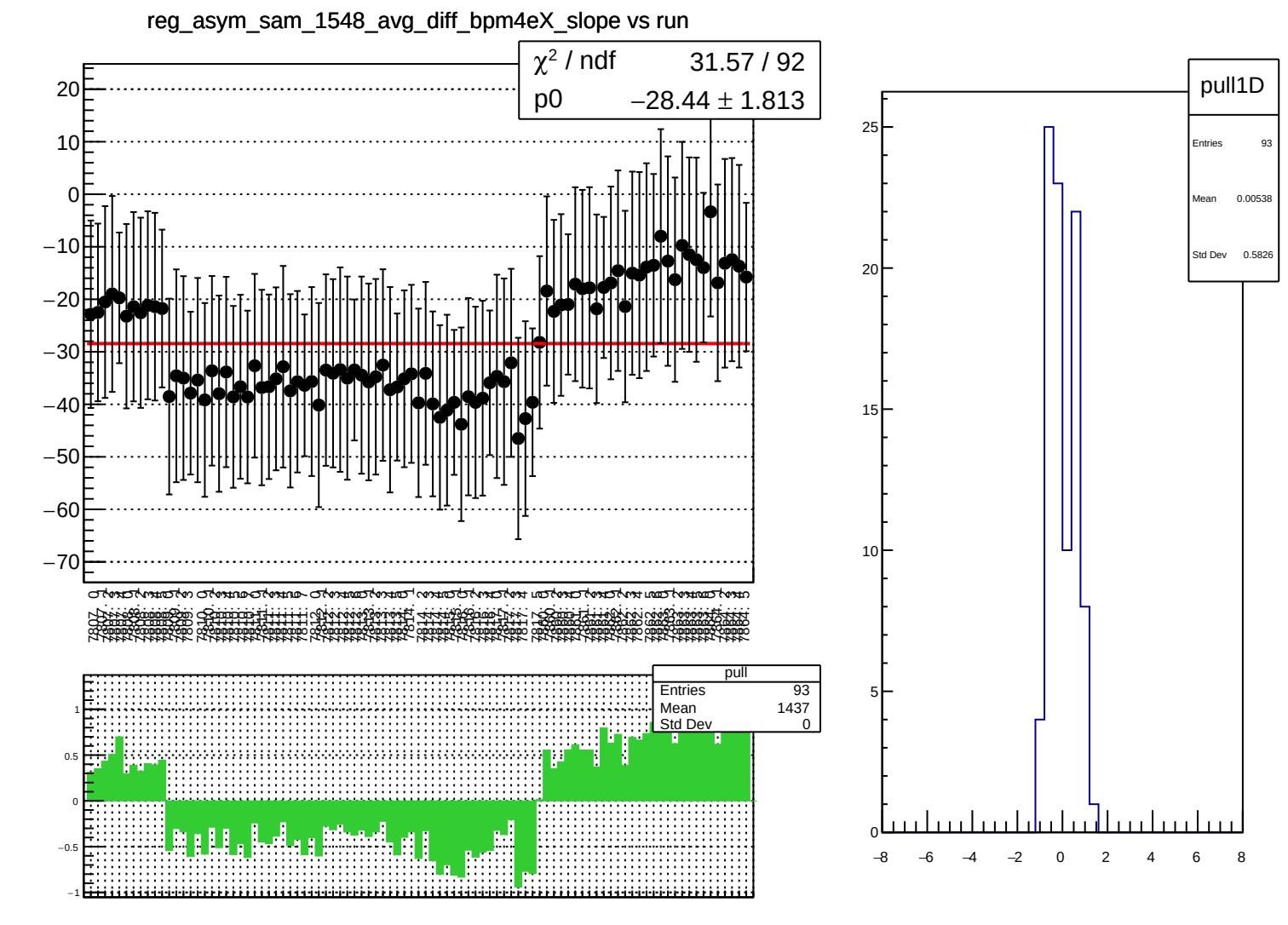

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 31.18 / 92
p0 −20.88 ± 0.862
pull
Entries 93
Mean 446.9
Std Dev 0
pull1D
Entries 93
Mean −0.01902
Std Dev 0.5787

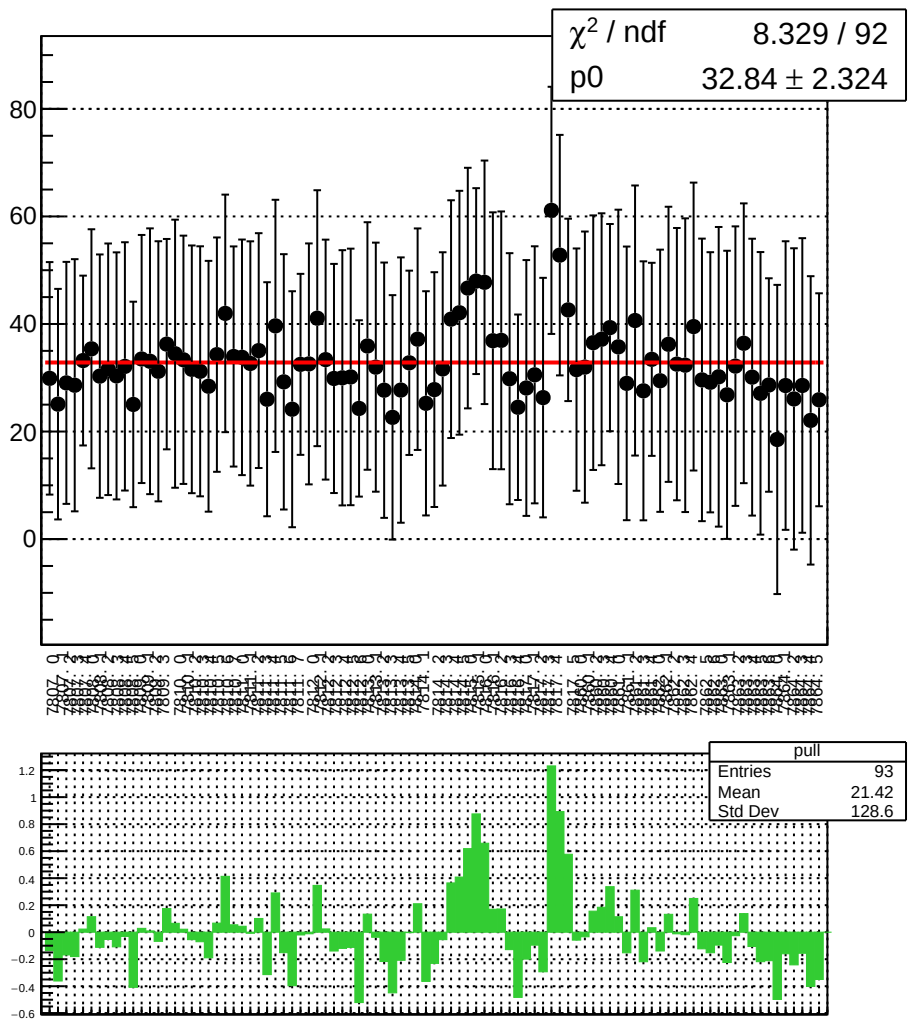

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 33.02 / 92
p0 1.034 ± 0.02505
pull
Entries 93
Mean 305
Std Dev 0
pull1D
Entries 93
Mean 0.03659
Std Dev 0.5947

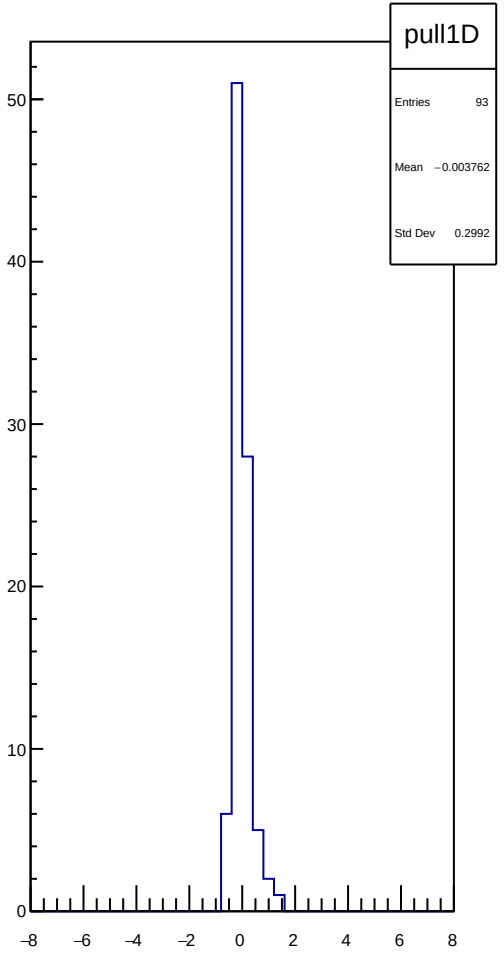

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 40.82 / 92
p0 −30.84 ± 2.005
pull
Entries 93
Mean 419
Std Dev 0
pull1D
Entries 93
Mean −0.02261
Std Dev 0.6621

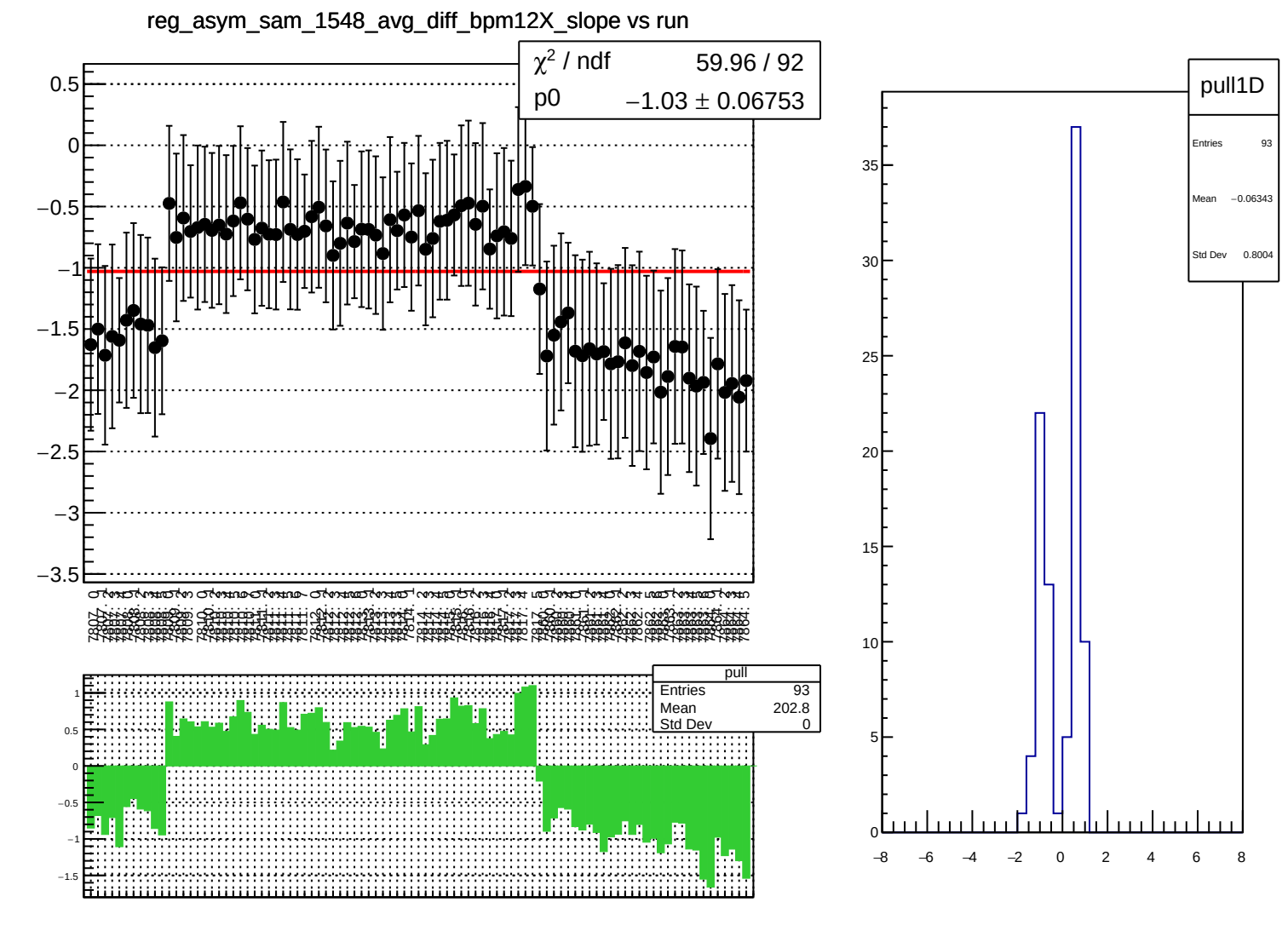

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 12.04 / 92
p0 45.35 ± 2.039
pull
Entries 93
Mean −26.36
Std Dev 93.55

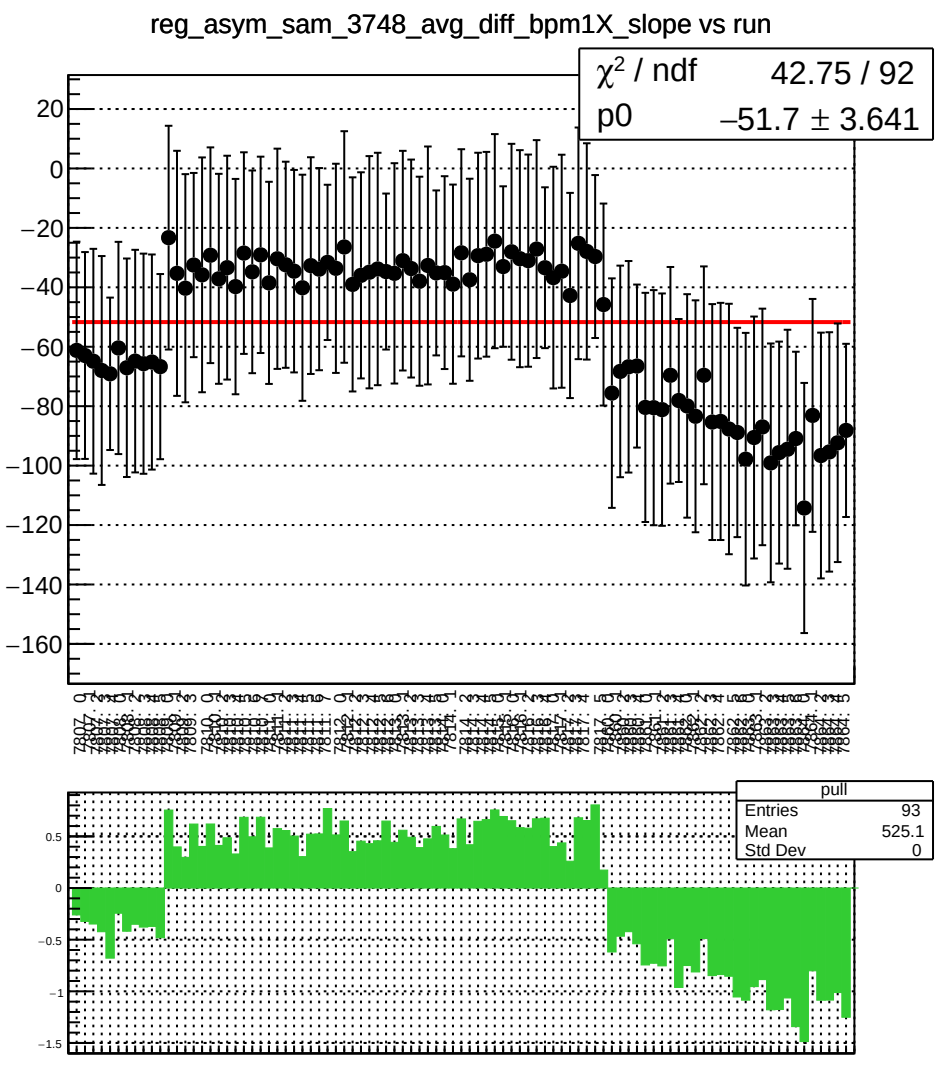

pull1D
Entries 93
Mean 0.006144
Std Dev 0.3597

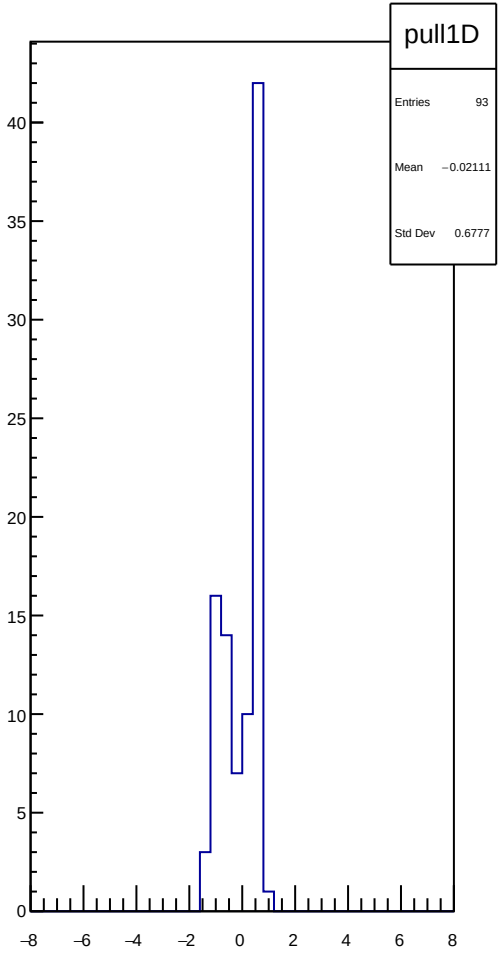

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 31.57 / 92
p0 −28.44 ± 1.813
pull
Entries 93
Mean 1437
Std Dev 0
pull1D
Entries 93
Mean 0.00538
Std Dev 0.5826

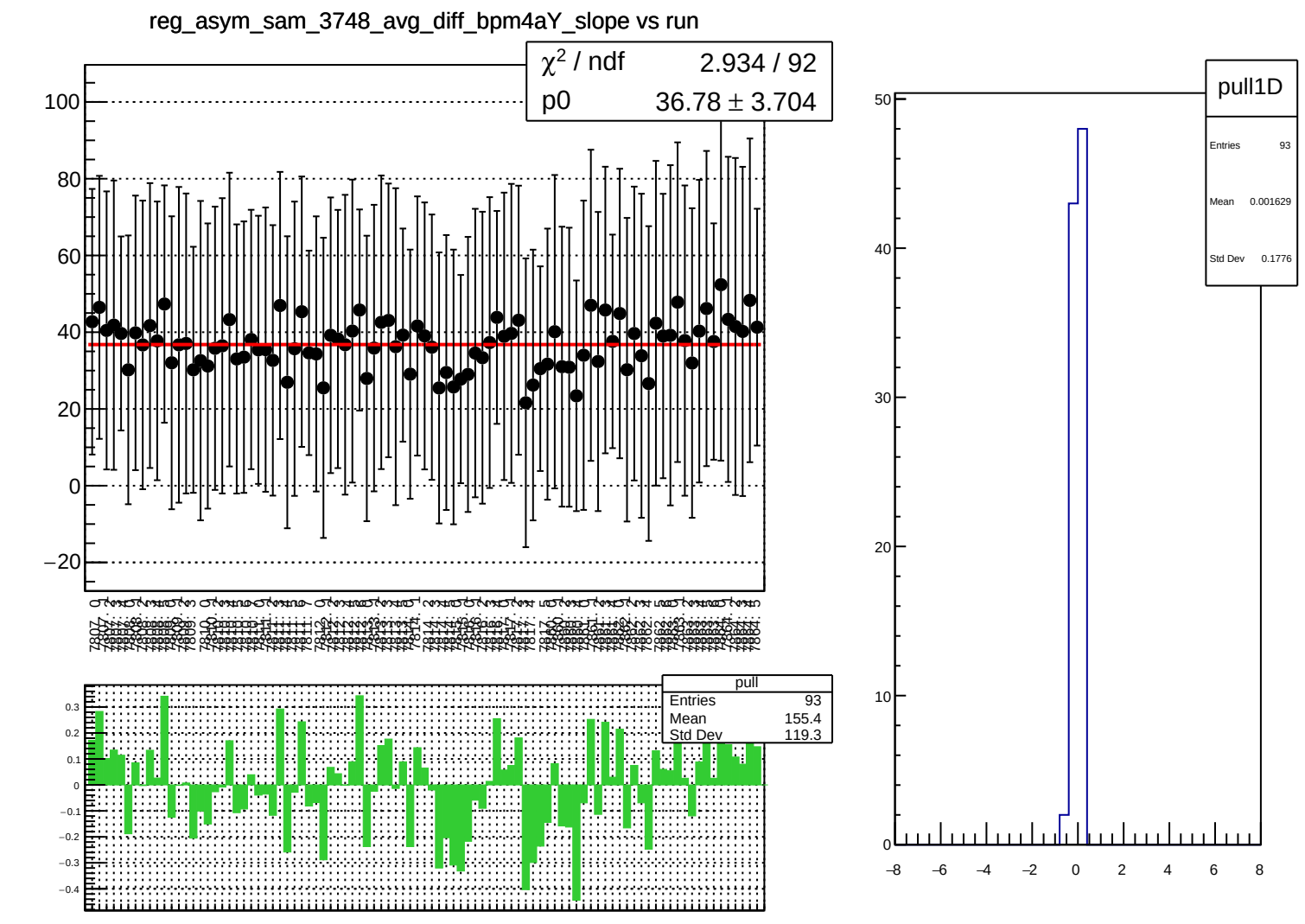

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.329 / 92
p0 32.84 ± 2.324
pull
Entries 93
Mean 21.42
Std Dev 128.6

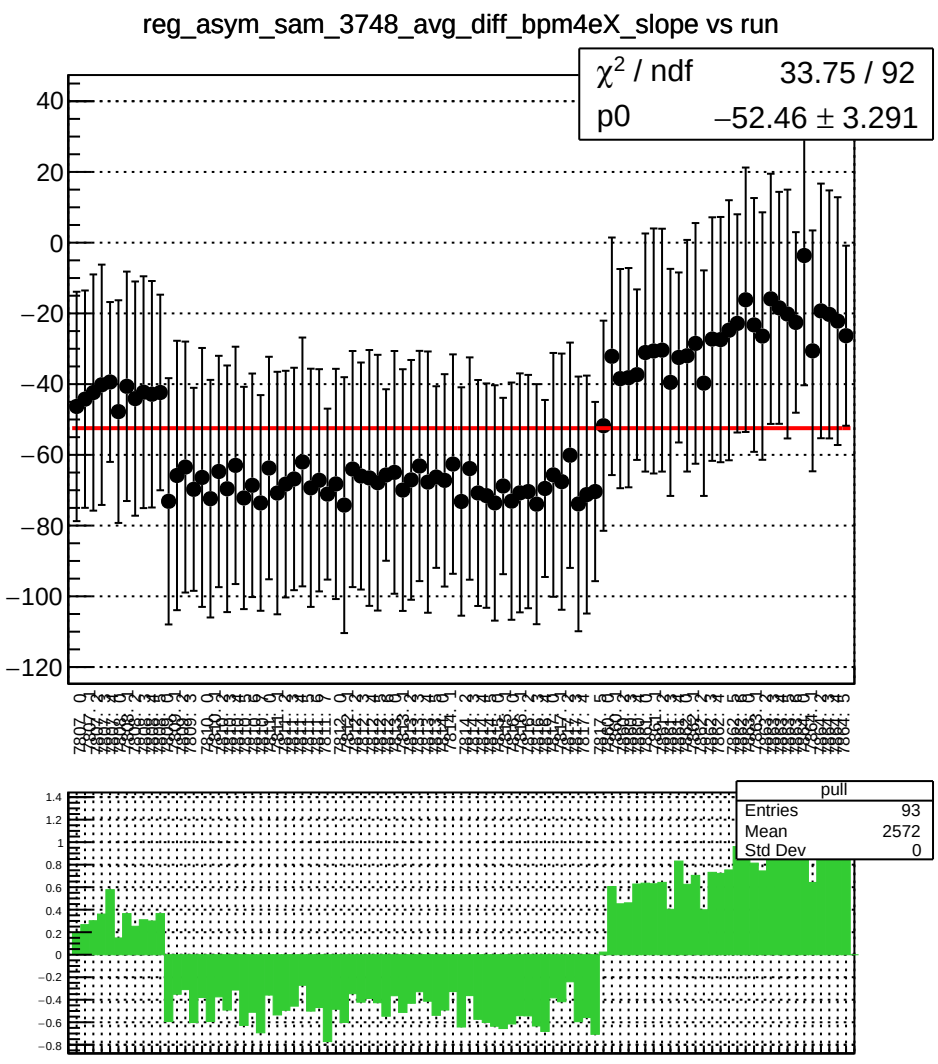

pull1D
Entries 93
Mean −0.003762
Std Dev 0.2992

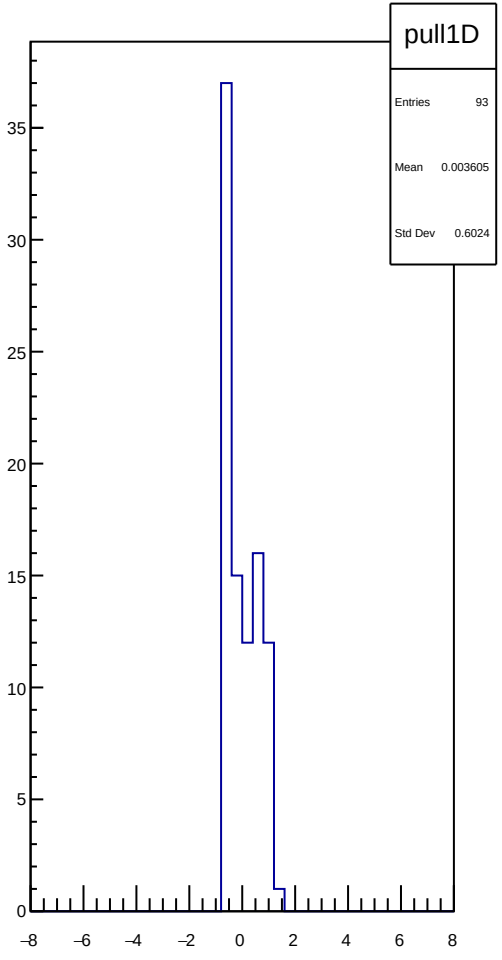

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 59.96 / 92
p0 −1.03 ± 0.06753
pull
Entries 93
Mean 202.8
Std Dev 0
pull1D
Entries 93
Mean −0.06343
Std Dev 0.8004

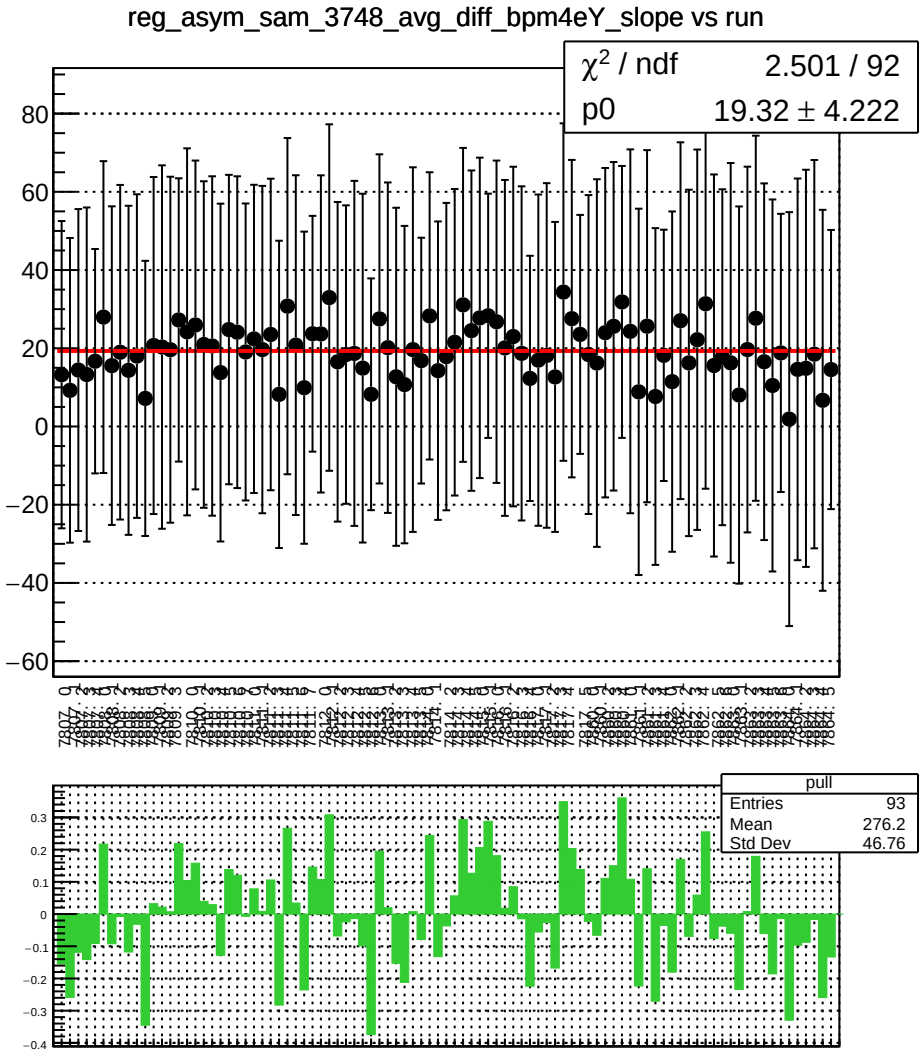

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 42.75 / 92
p0 −51.7 ± 3.641
pull
Entries 93
Mean 525.1
Std Dev 0

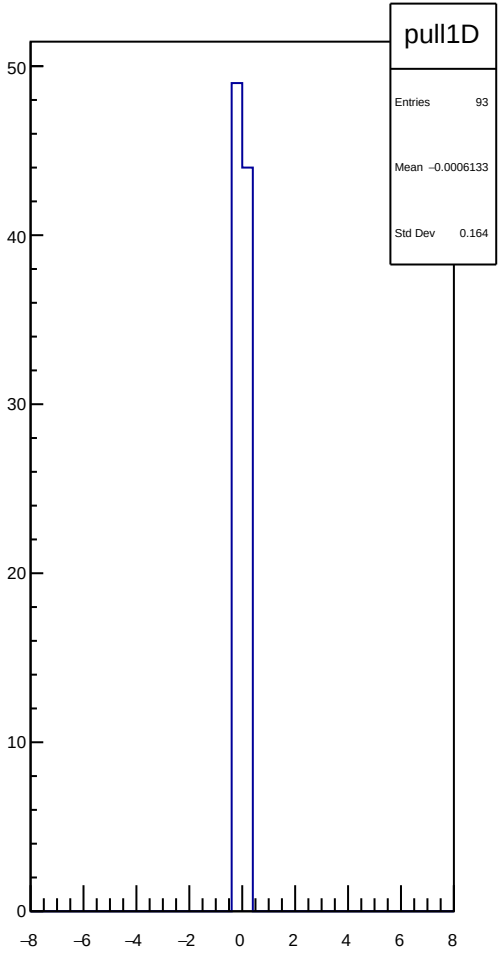

pull1D
Entries 93
Mean −0.02111
Std Dev 0.6777

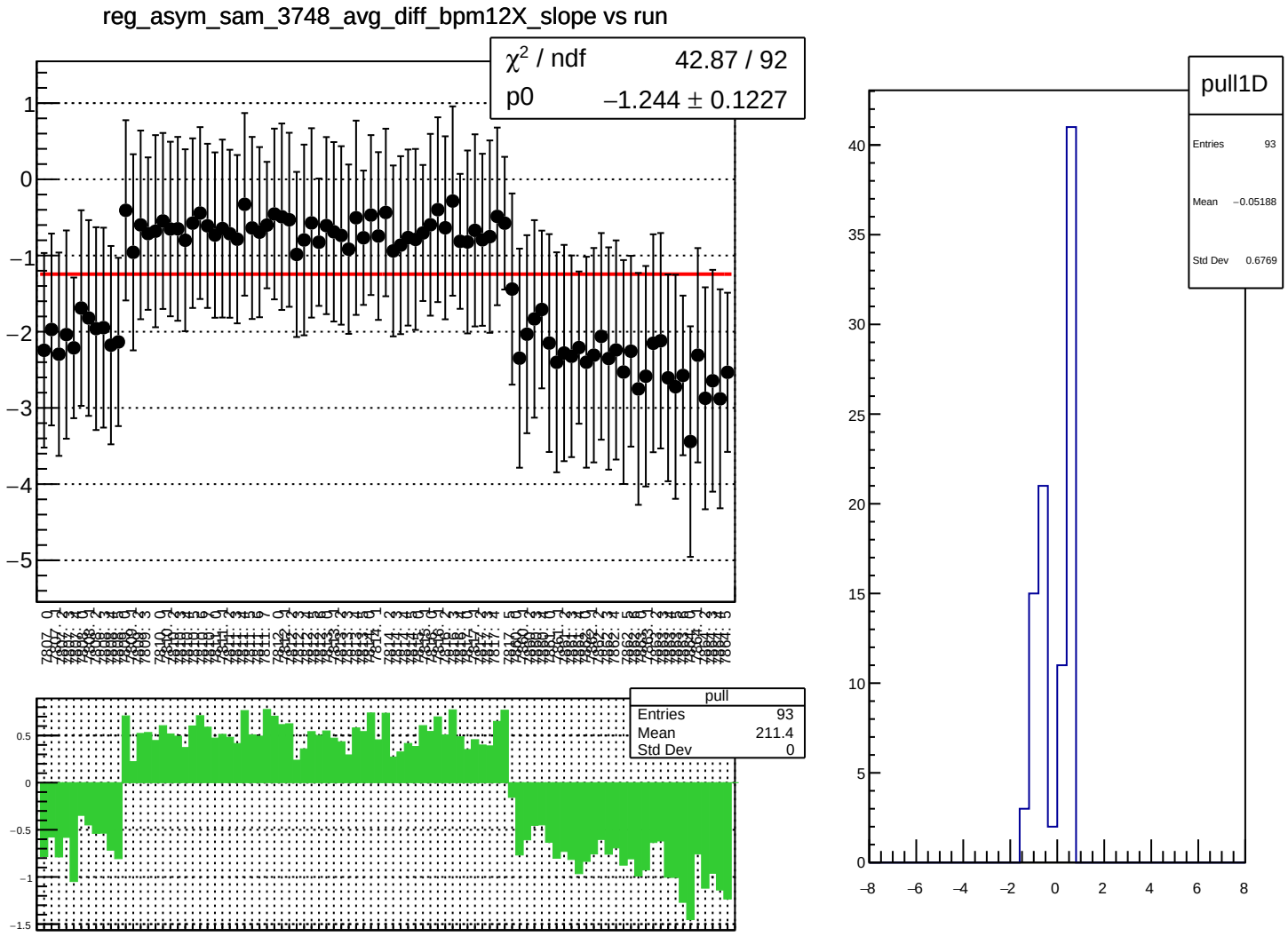

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.934 / 92
p0 36.78 ± 3.704
pull
Entries 93
Mean 155.4
Std Dev 119.3
pull1D
Entries 93
Mean 0.001629
Std Dev 0.1776

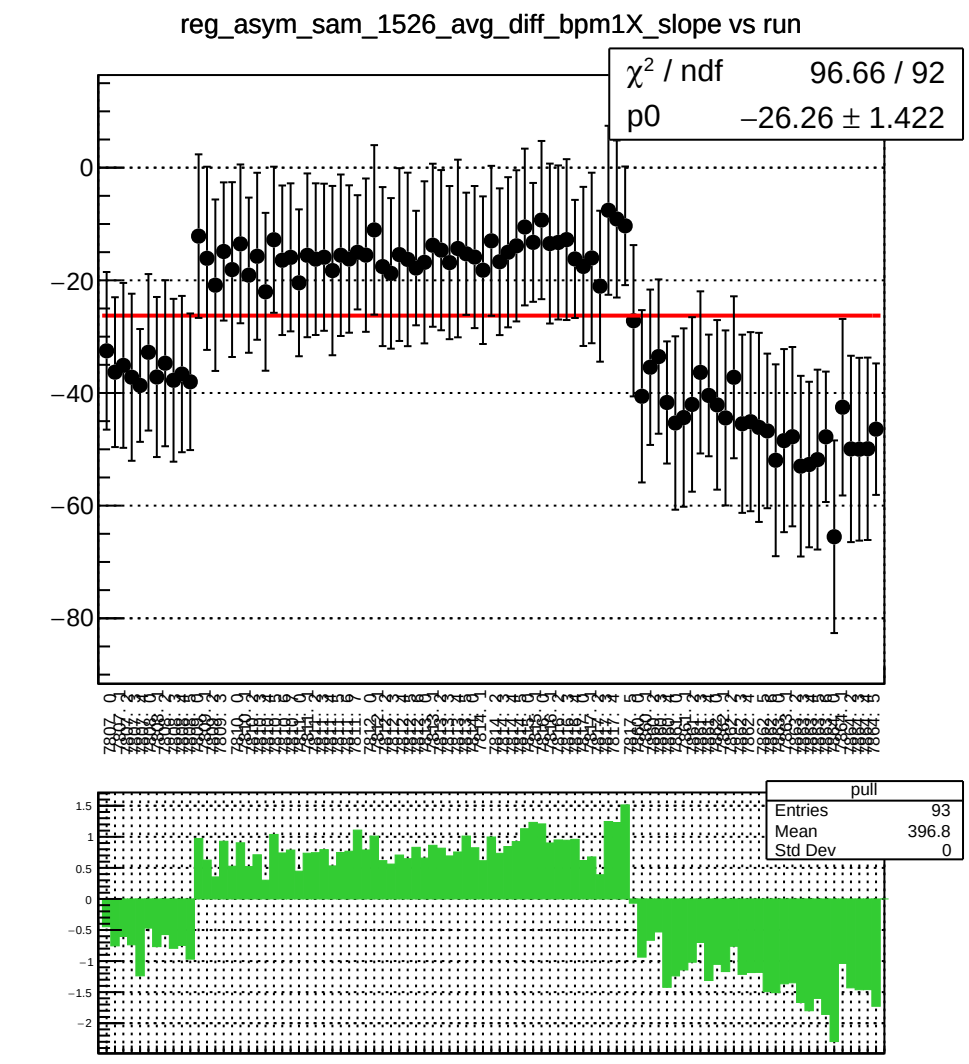

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 33.75 / 92
p0 −52.46 ± 3.291
pull
Entries 93
Mean 2572
Std Dev 0

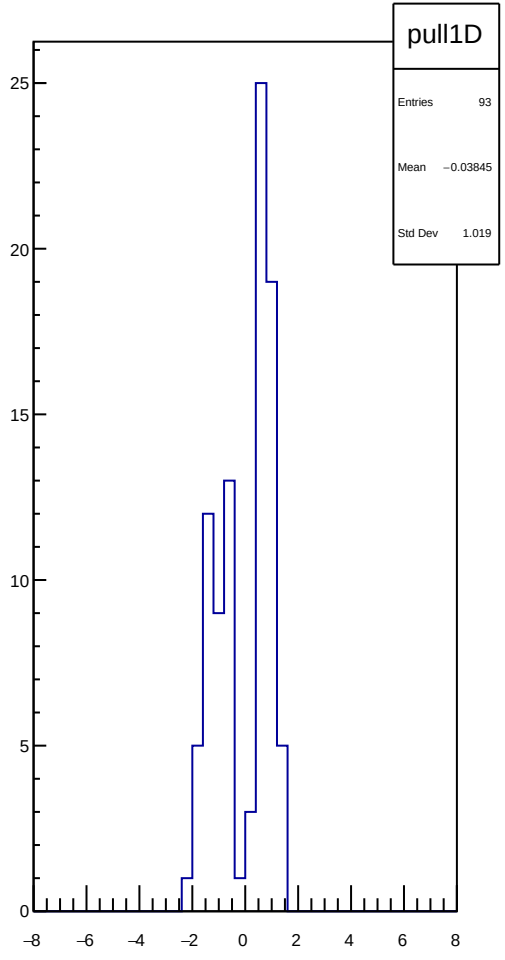

pull1D
Entries 93
Mean 0.003605
Std Dev 0.6024

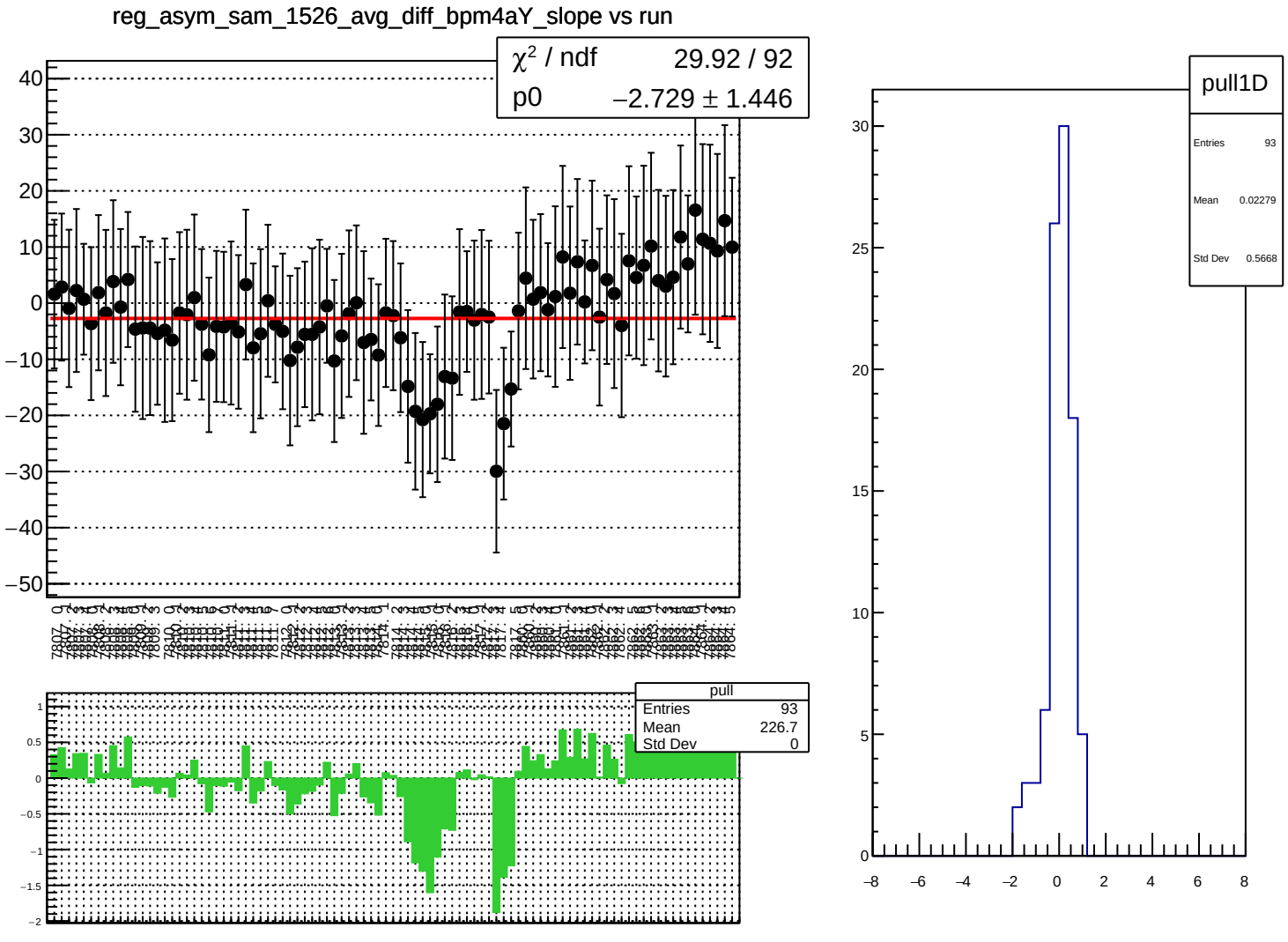

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.501 / 92
p0 19.32 ± 4.222
pull
Entries 93
Mean 276.2
Std Dev 46.76

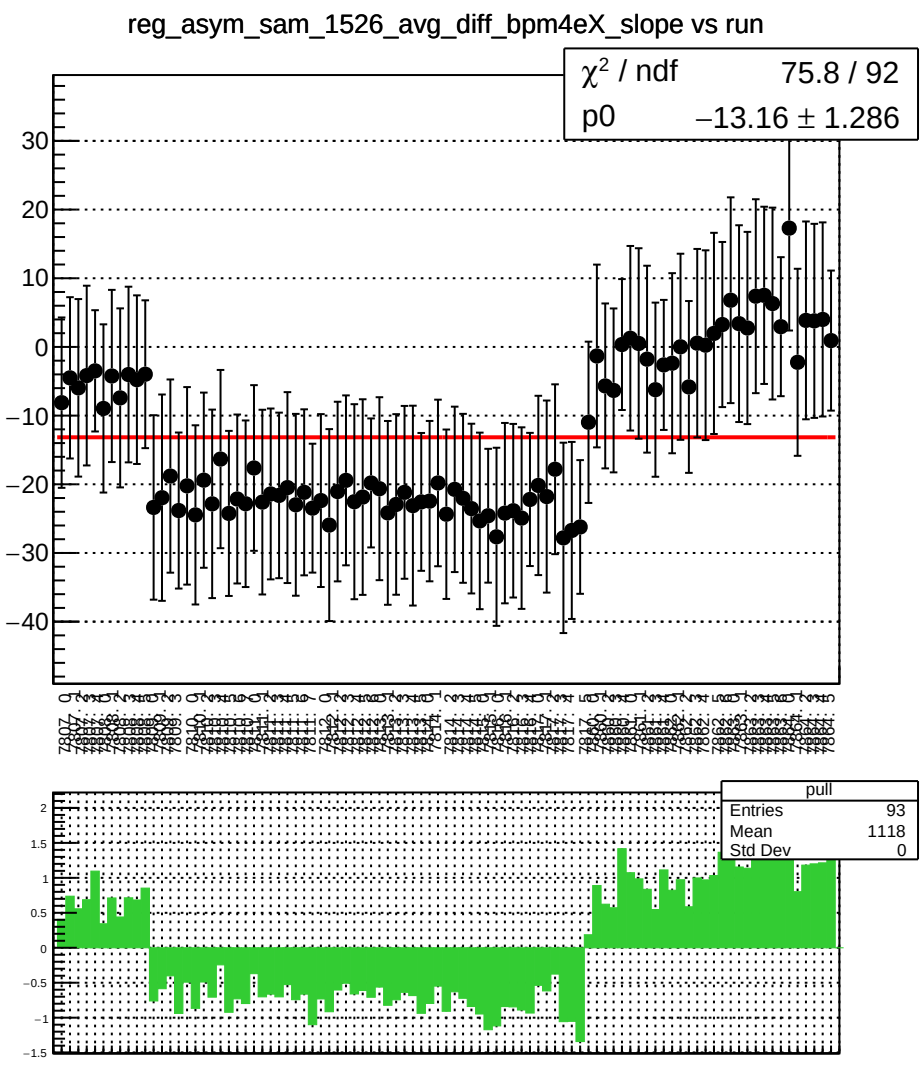

pull1D
Entries 93
Mean −0.0006133
Std Dev 0.164

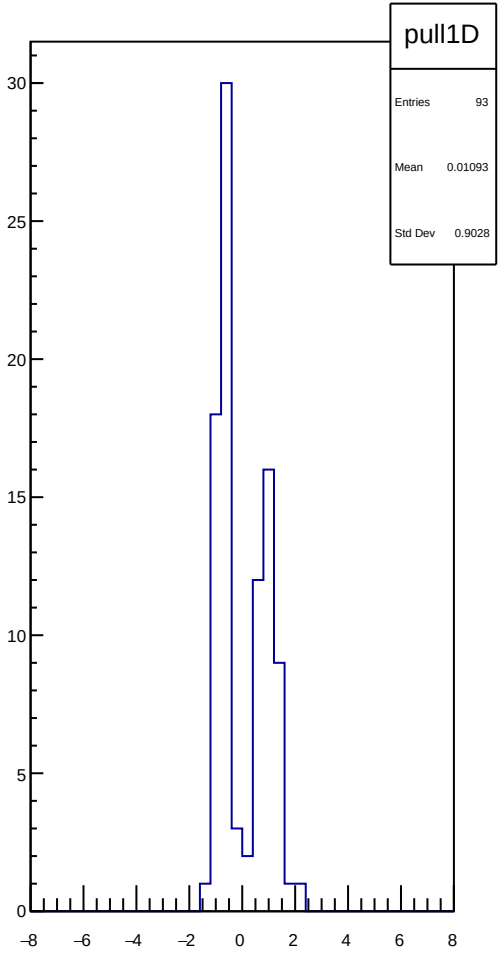

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 42.87 / 92
p0 −1.244 ± 0.1227
pull
Entries 93
Mean 211.4
Std Dev 0
pull1D
Entries 93
Mean −0.05188
Std Dev 0.6769

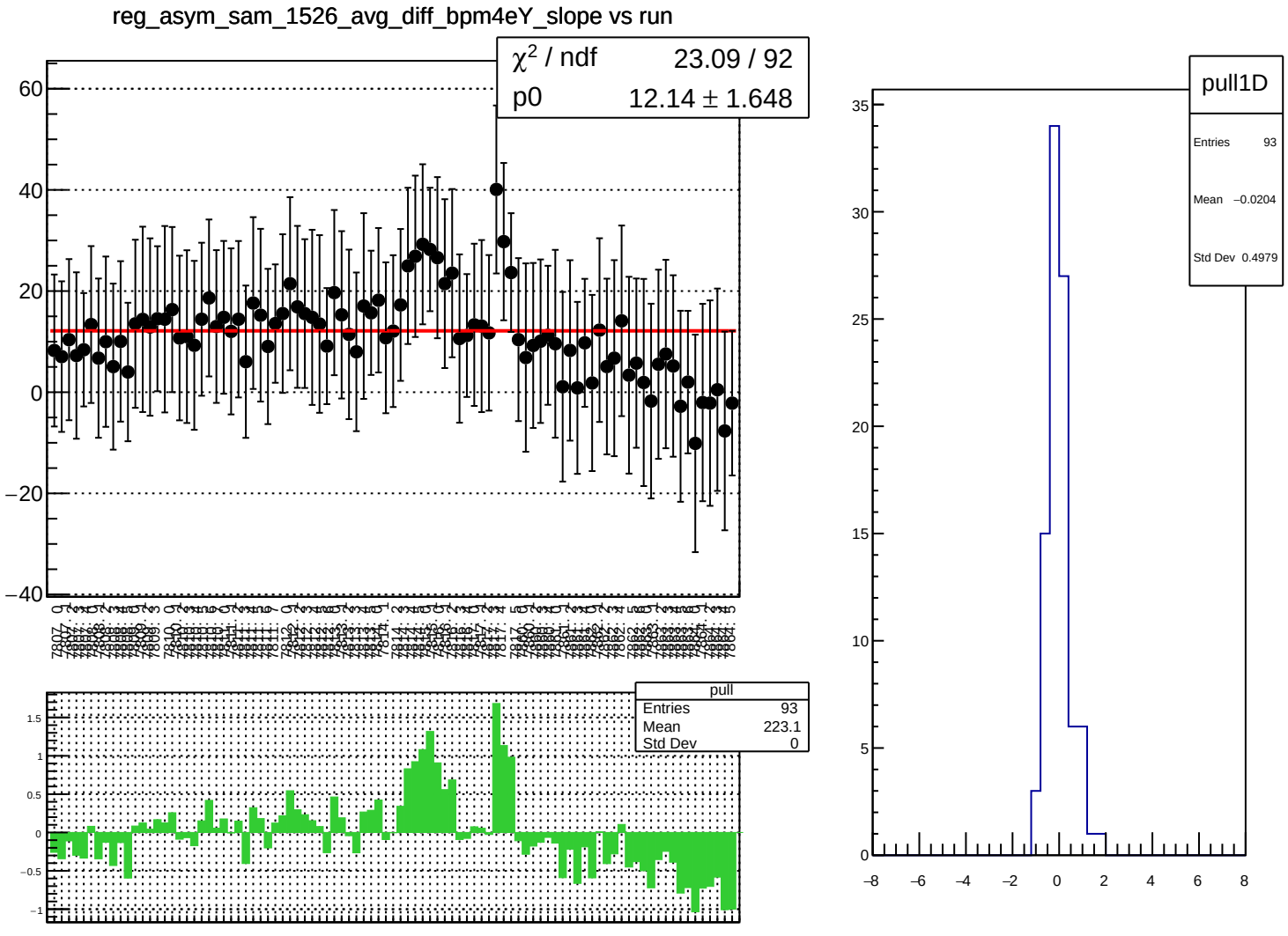

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 96.66 / 92
p0 −26.26 ± 1.422
0
−20
−40
−60
−80
pull
Entries 93
Mean 396.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

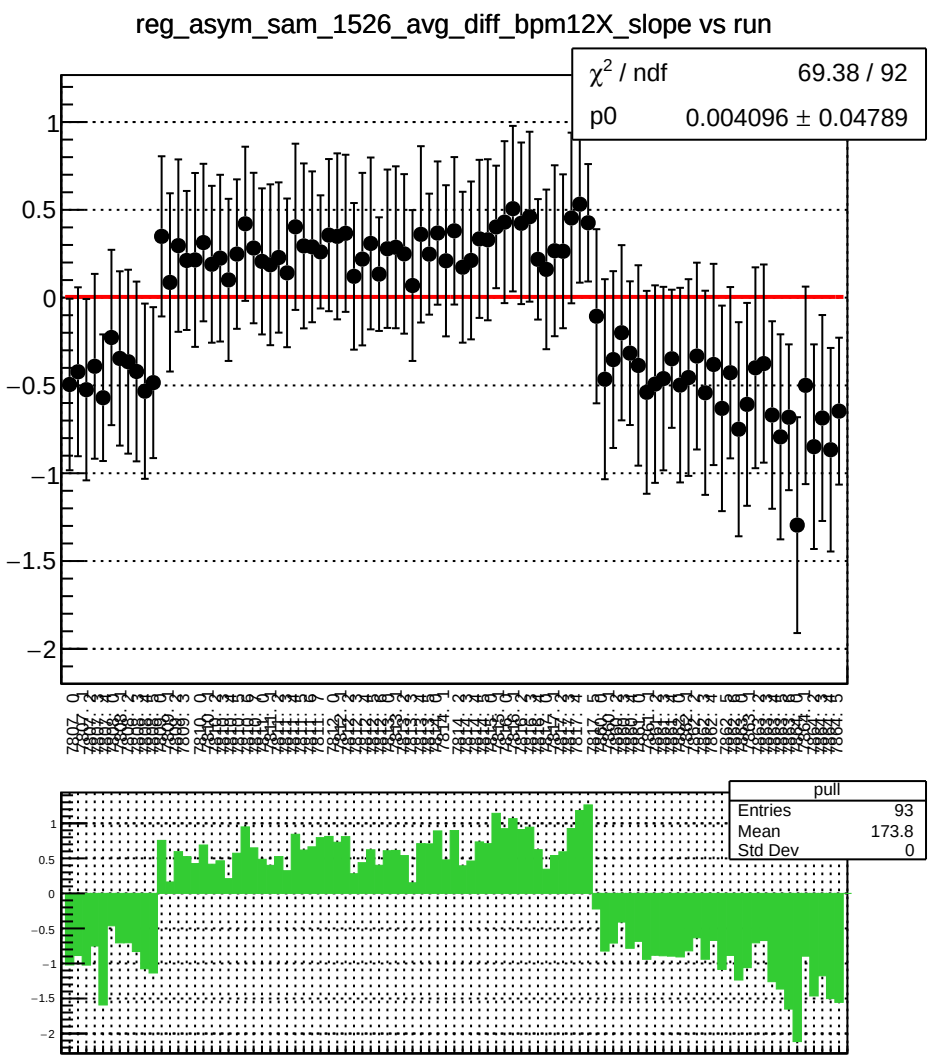

pull1D
Entries 93
Mean −0.03845
Std Dev 1.019
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

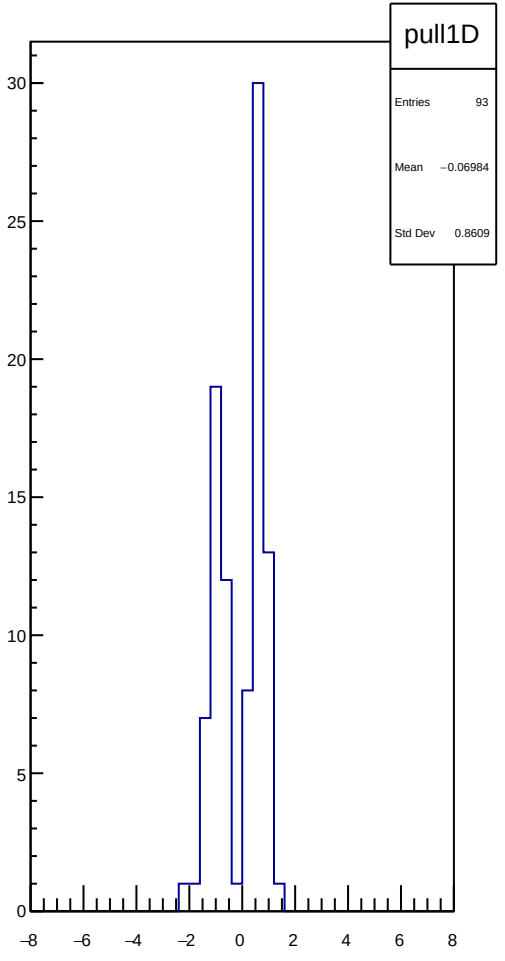

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 29.92 / 92
p0 −2.729 ± 1.446
pull
Entries 93
Mean 226.7
Std Dev 0
pull1D
Entries 93
Mean 0.02279
Std Dev 0.5668

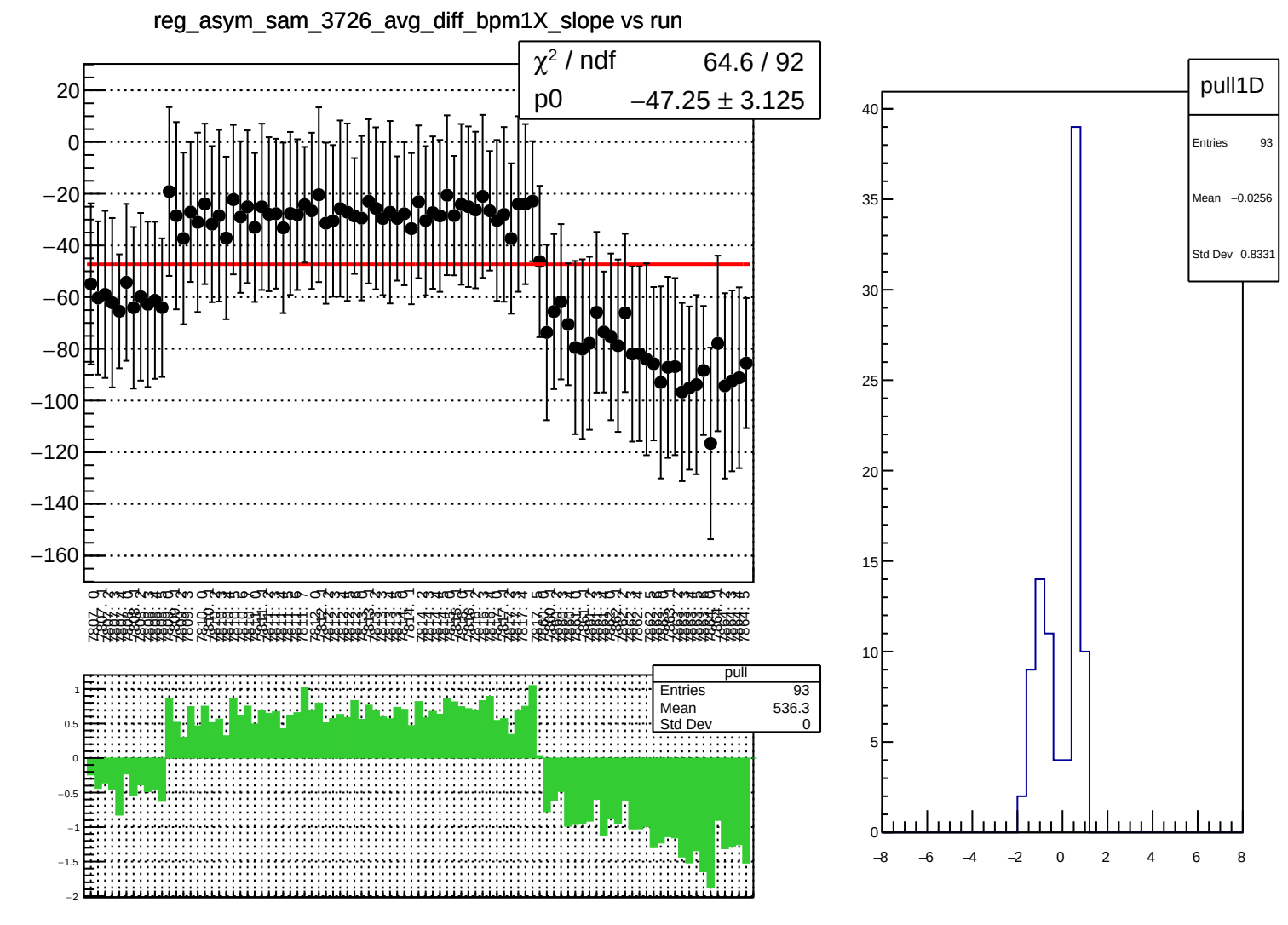

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 75.8 / 92
p0 −13.16 ± 1.286
pull
Entries 93
Mean 1118
Std Dev 0

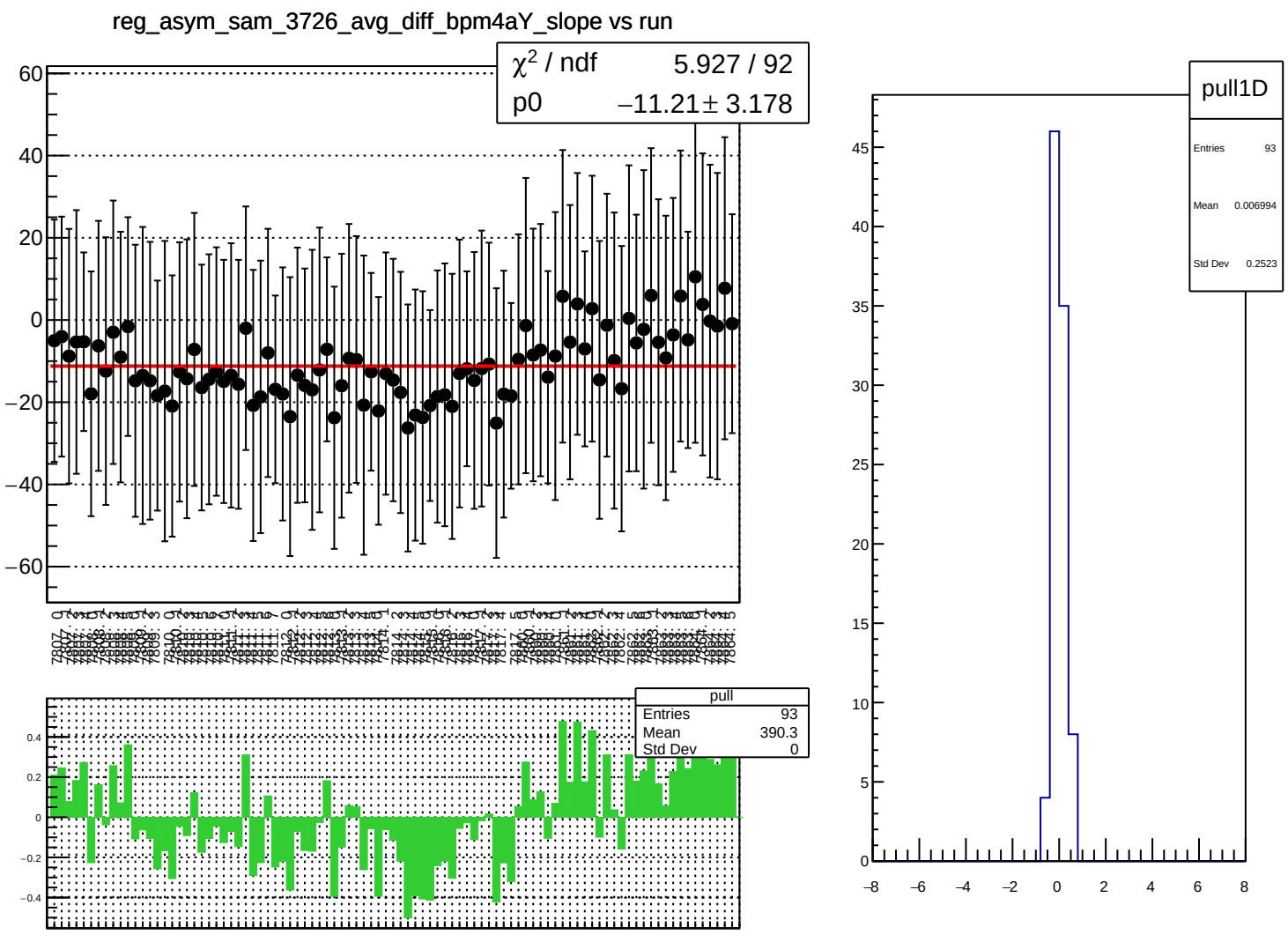

pull1D
Entries 93
Mean 0.01093
Std Dev 0.9028

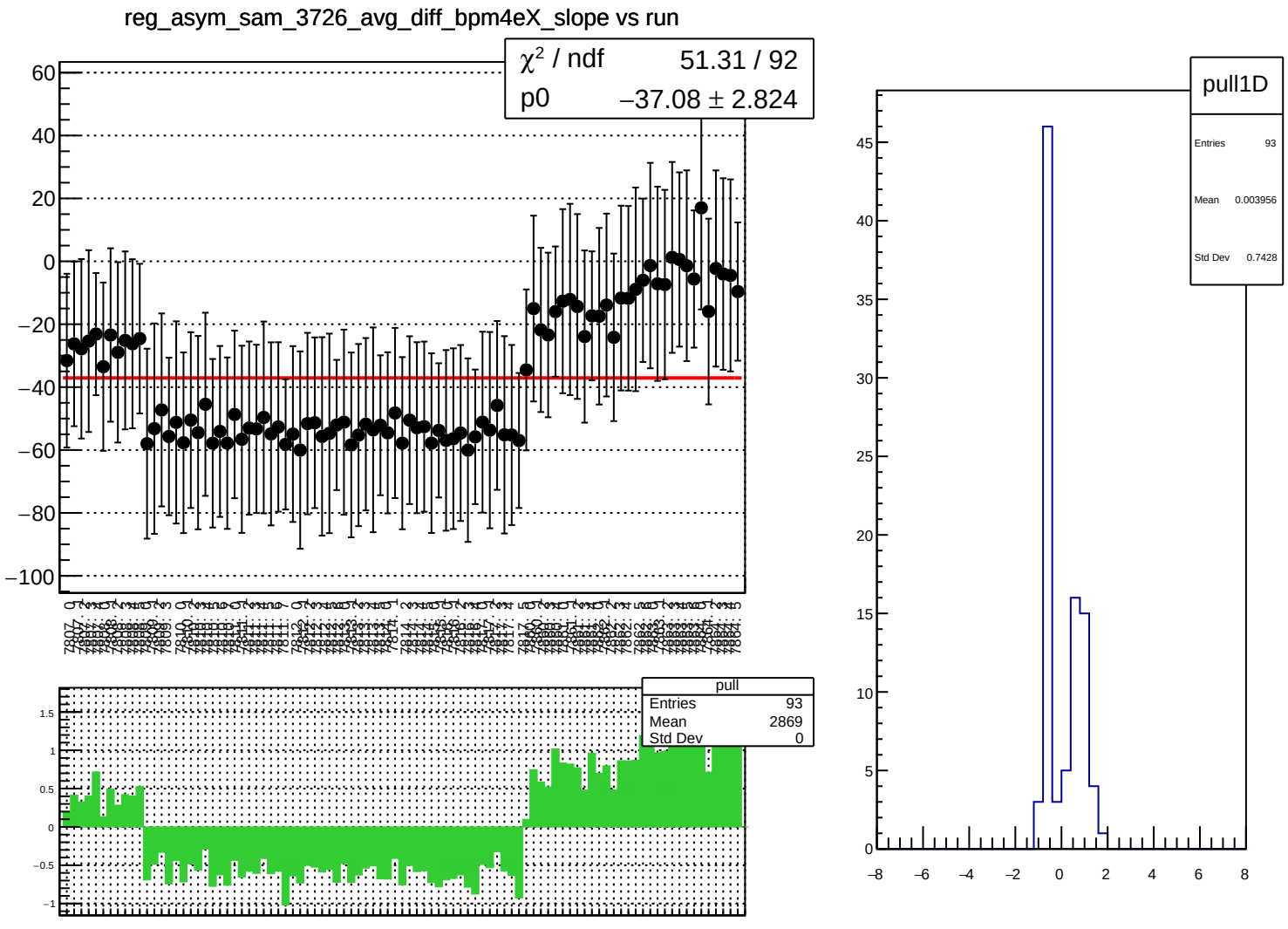

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 23.09 / 92
p0 12.14 ± 1.648
pull
Entries 93
Mean 223.1
Std Dev 0
pull1D
Entries 93
Mean −0.0204
Std Dev 0.4979

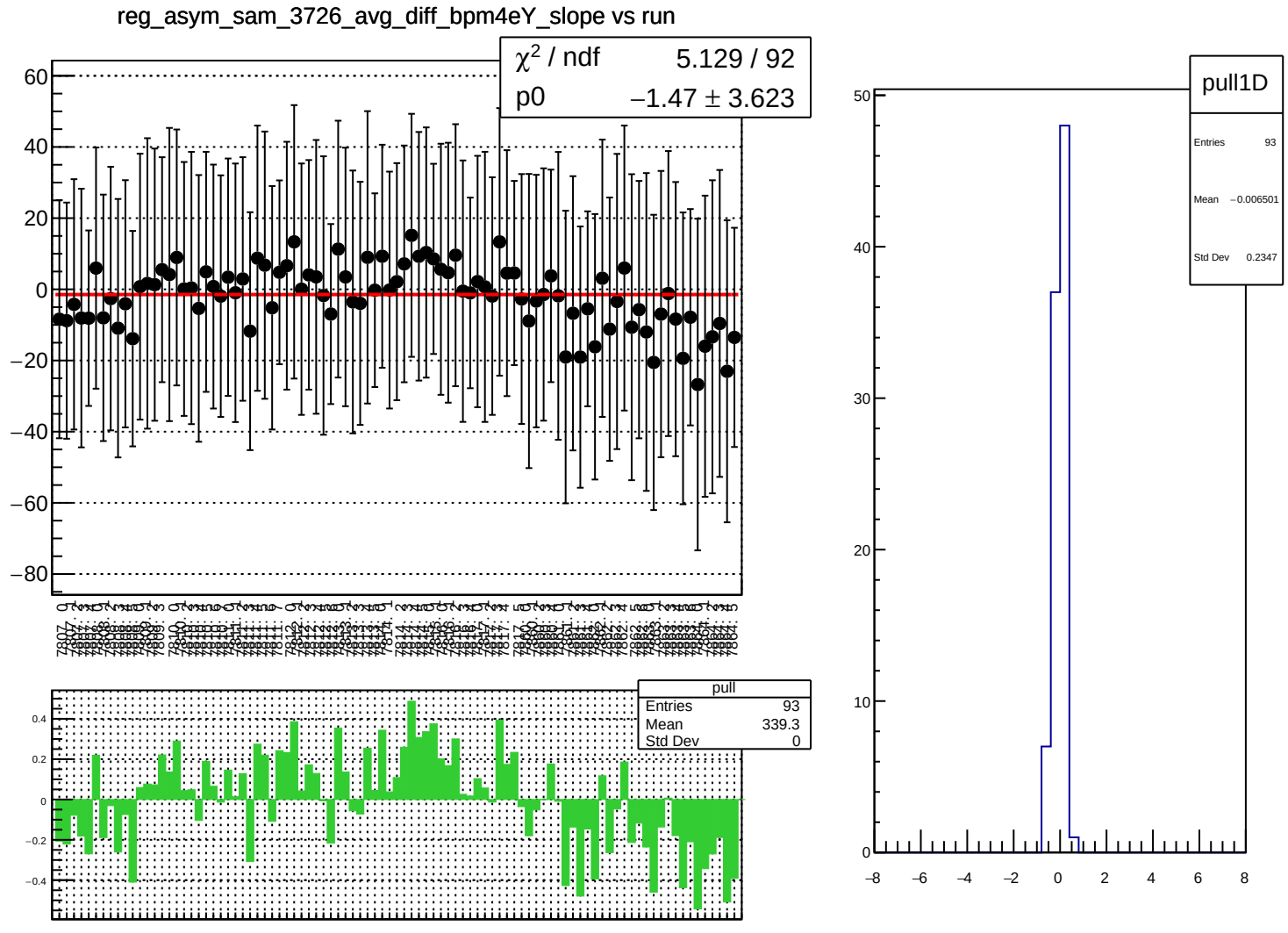

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 69.38 / 92
p0 0.004096 ± 0.04789
pull
Entries 93
Mean 173.8
Std Dev 0

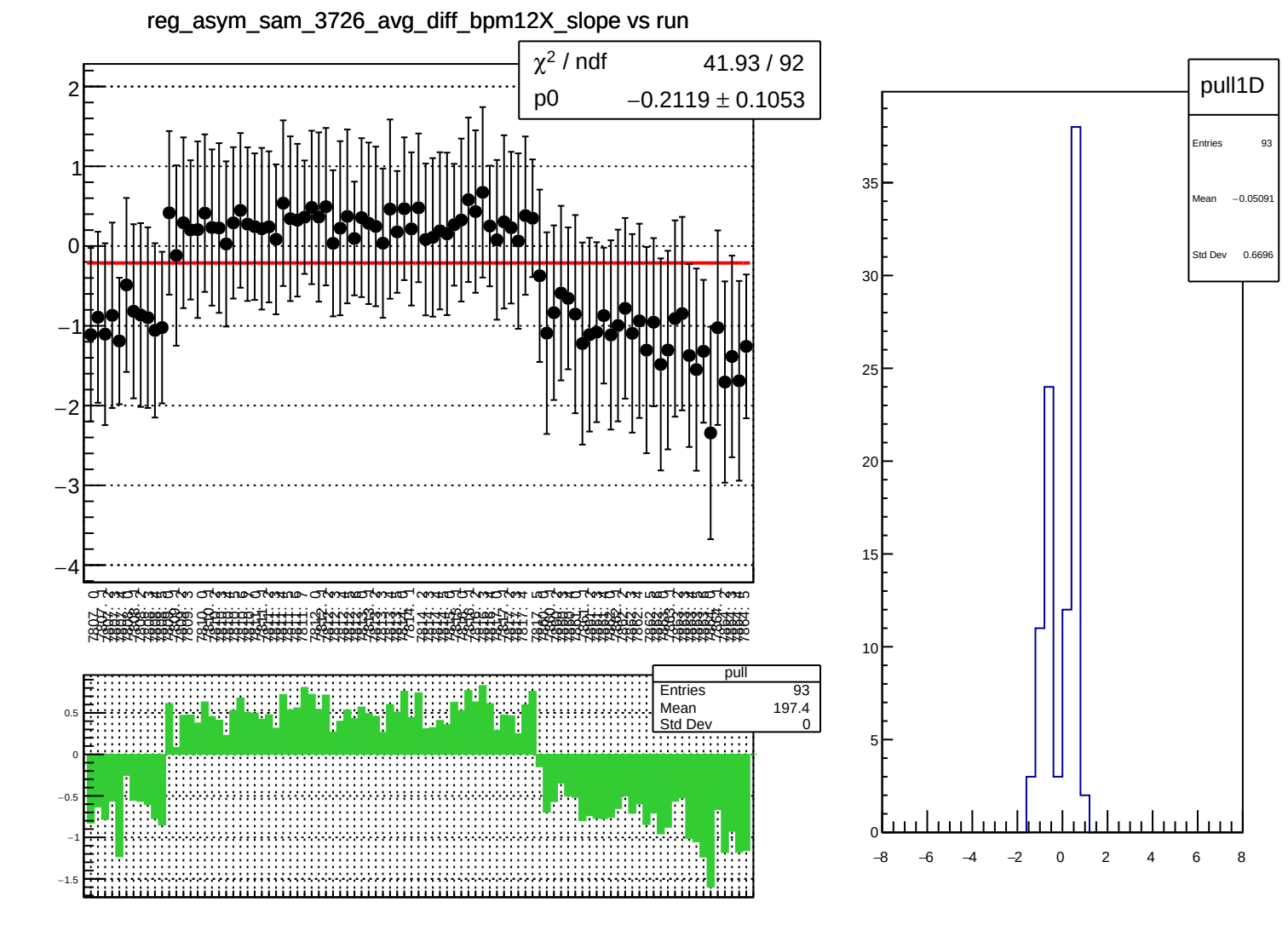

pull1D
Entries 93
Mean −0.06984
Std Dev 0.8609

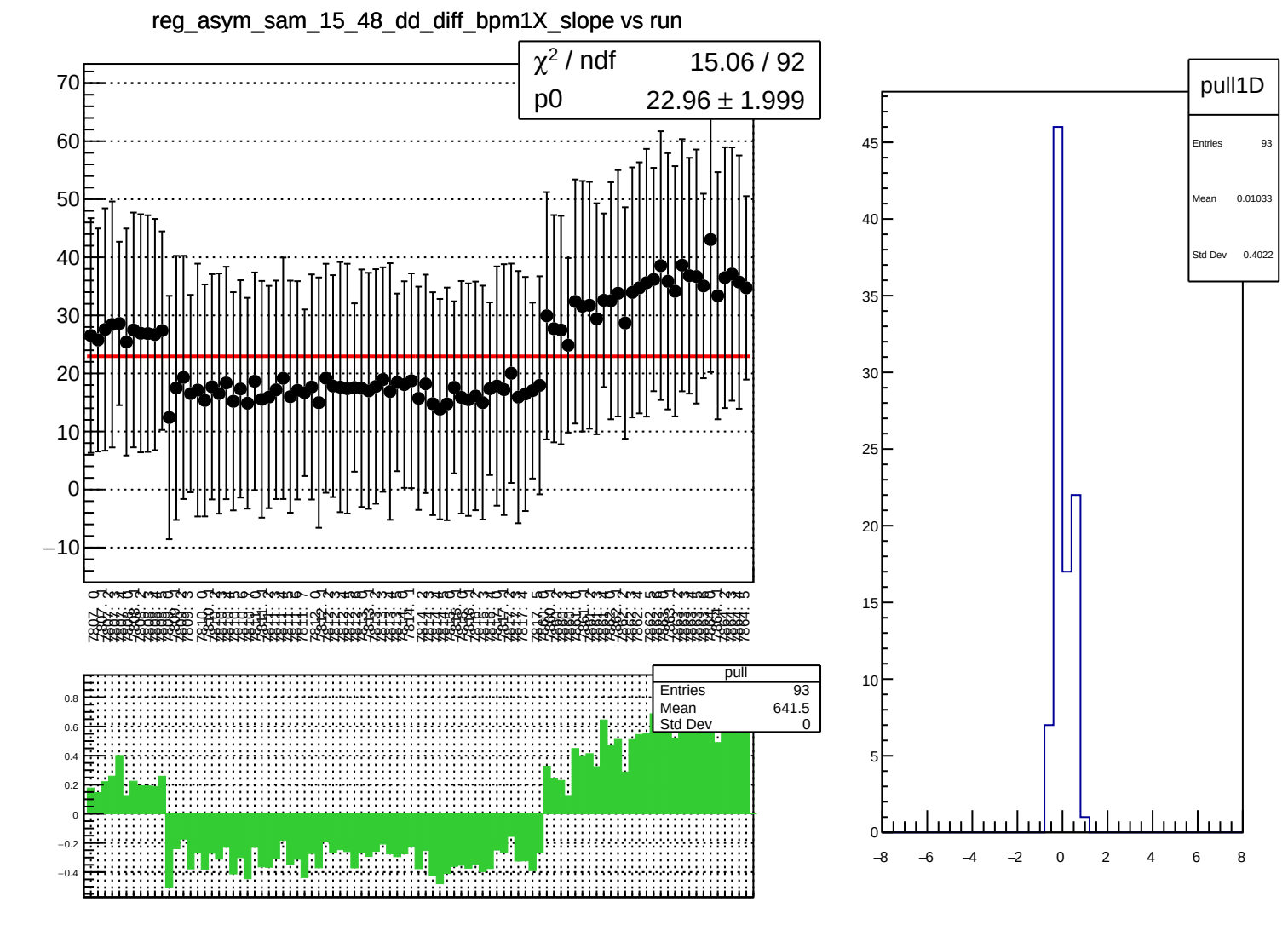

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 64.6 / 92
p0 −47.25 ± 3.125
pull
Entries 93
Mean 536.3
Std Dev 0
pull1D
Entries 93
Mean −0.0256
Std Dev 0.8331

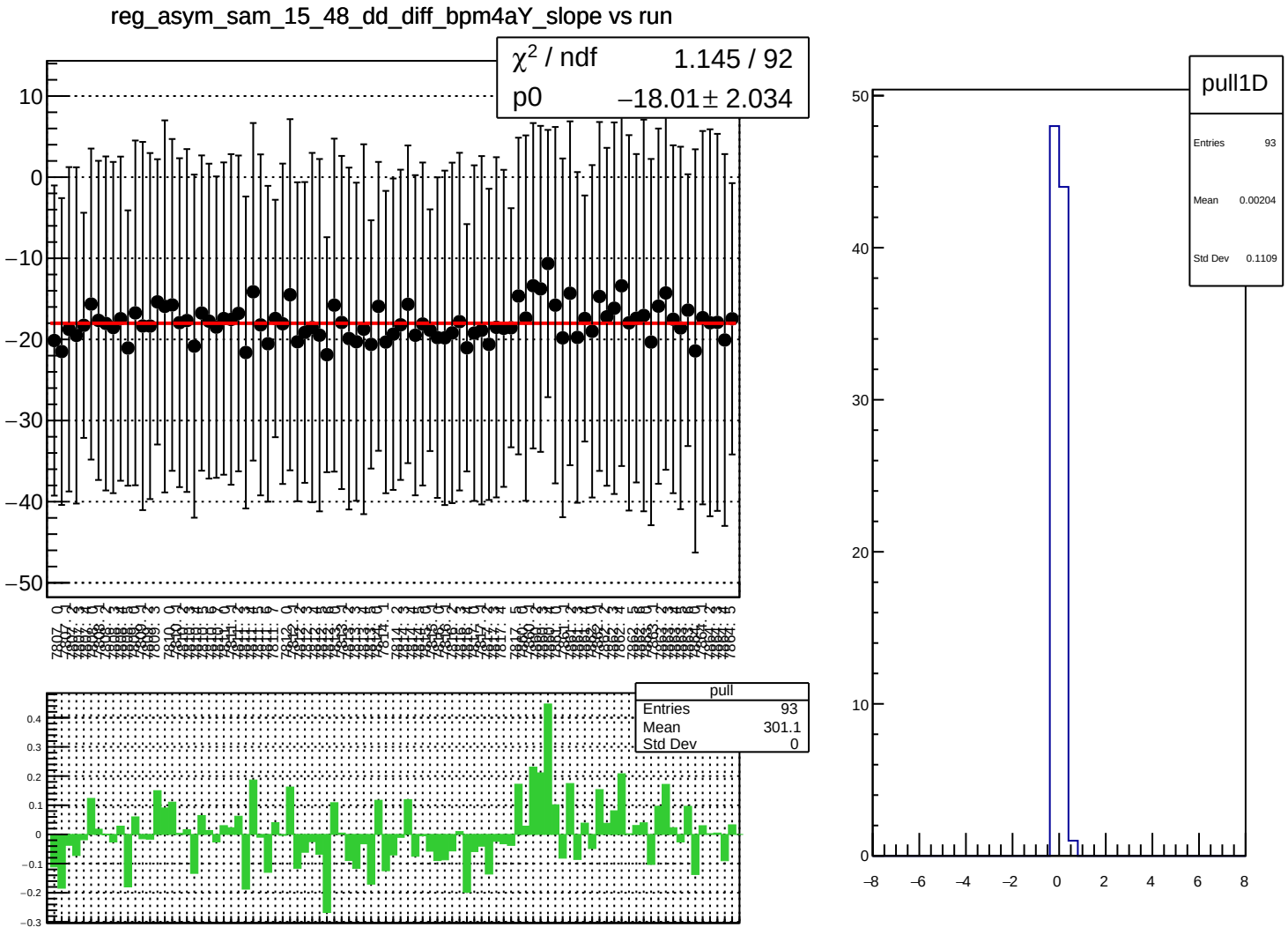

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.927 / 92
p0 −11.21± 3.178
pull
Entries 93
Mean 390.3
Std Dev 0
pull1D
Entries 93
Mean 0.006994
Std Dev 0.2523

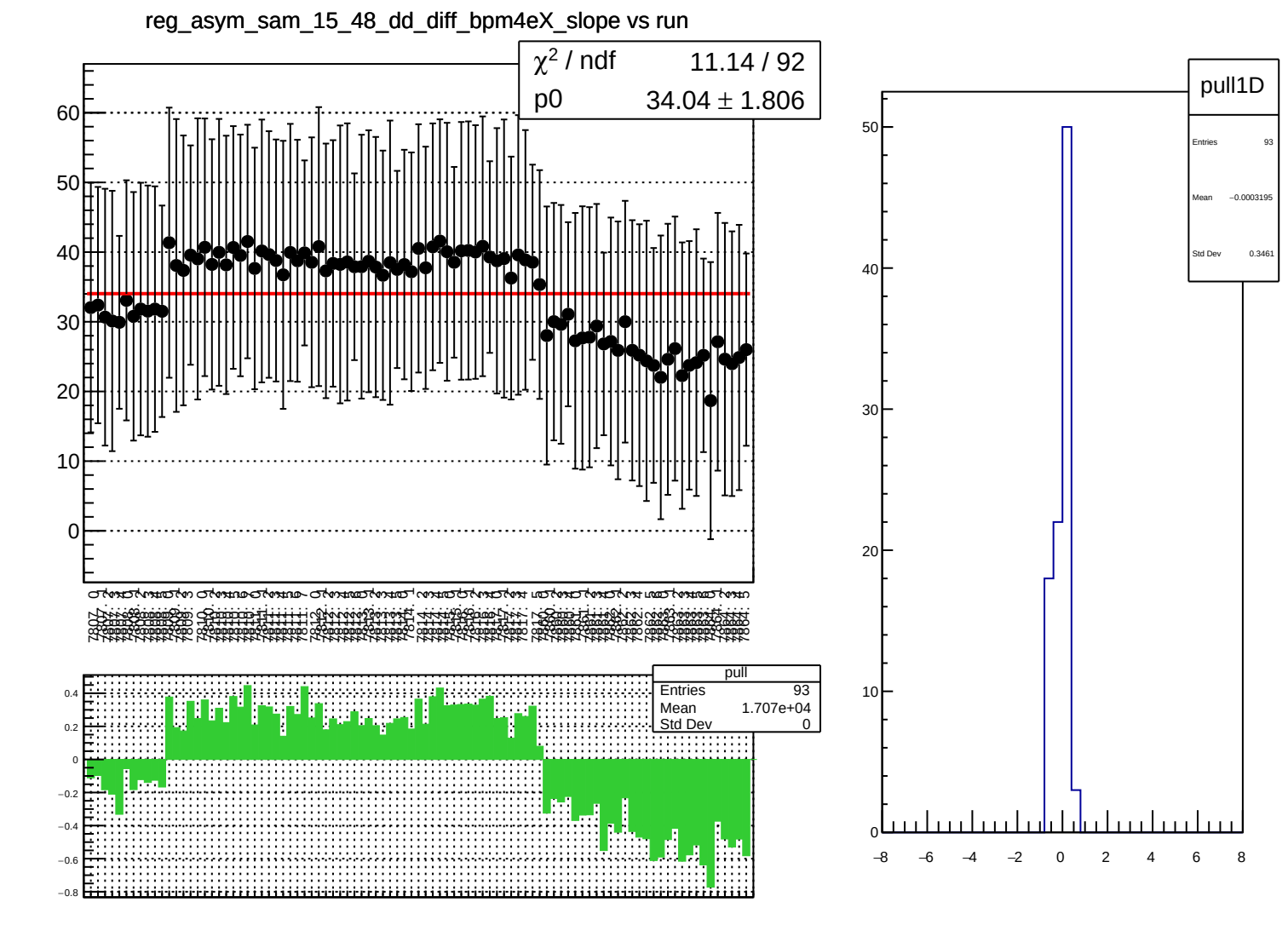

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 51.31 / 92
p0 −37.08 ± 2.824
pull
Entries 93
Mean 2869
Std Dev 0
pull1D
Entries 93
Mean 0.003956
Std Dev 0.7428

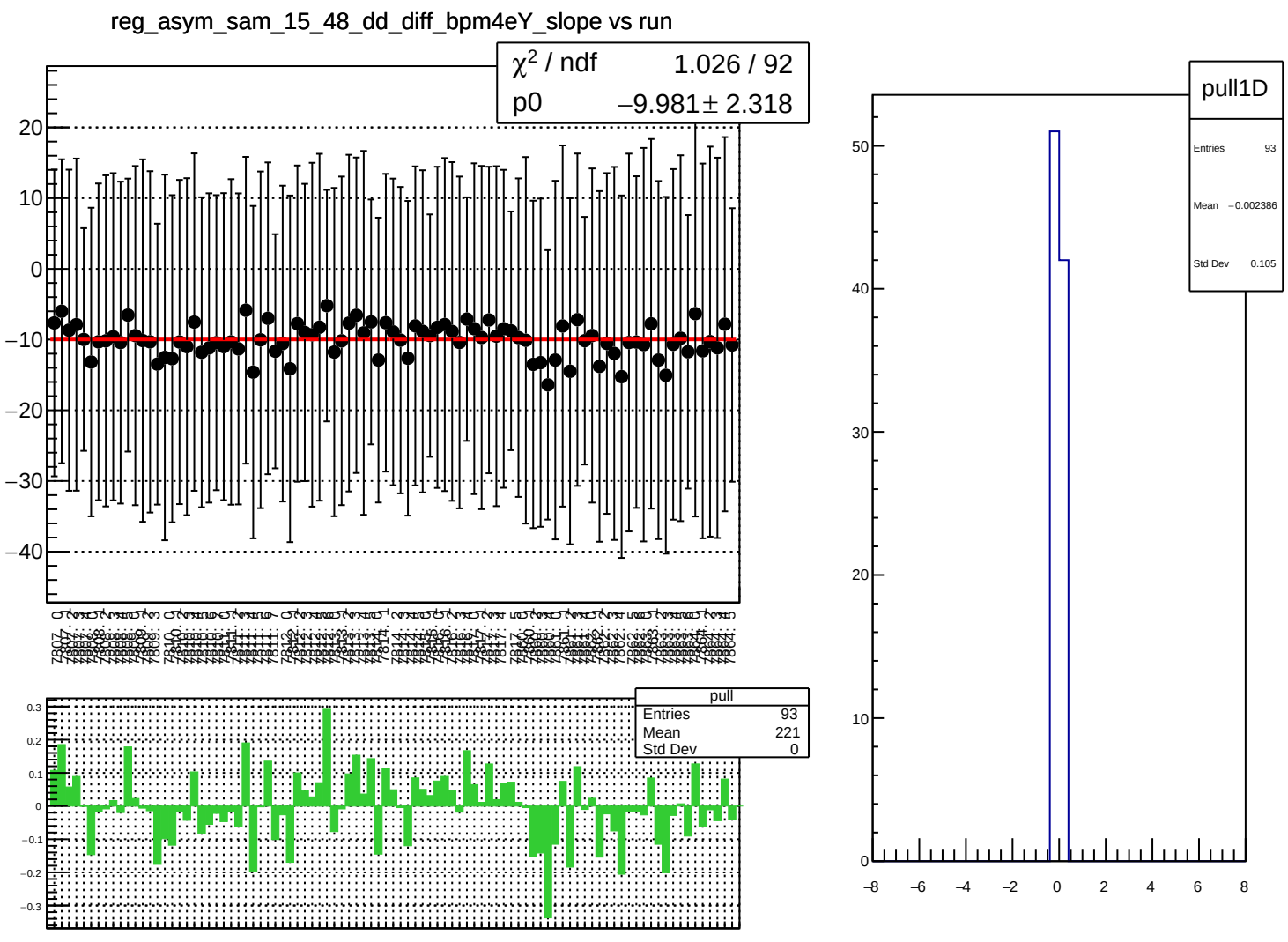

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.129 / 92
p0 −1.47 ± 3.623
pull
Entries 93
Mean 339.3
Std Dev 0
pull1D
Entries 93
Mean −0.006501
Std Dev 0.2347

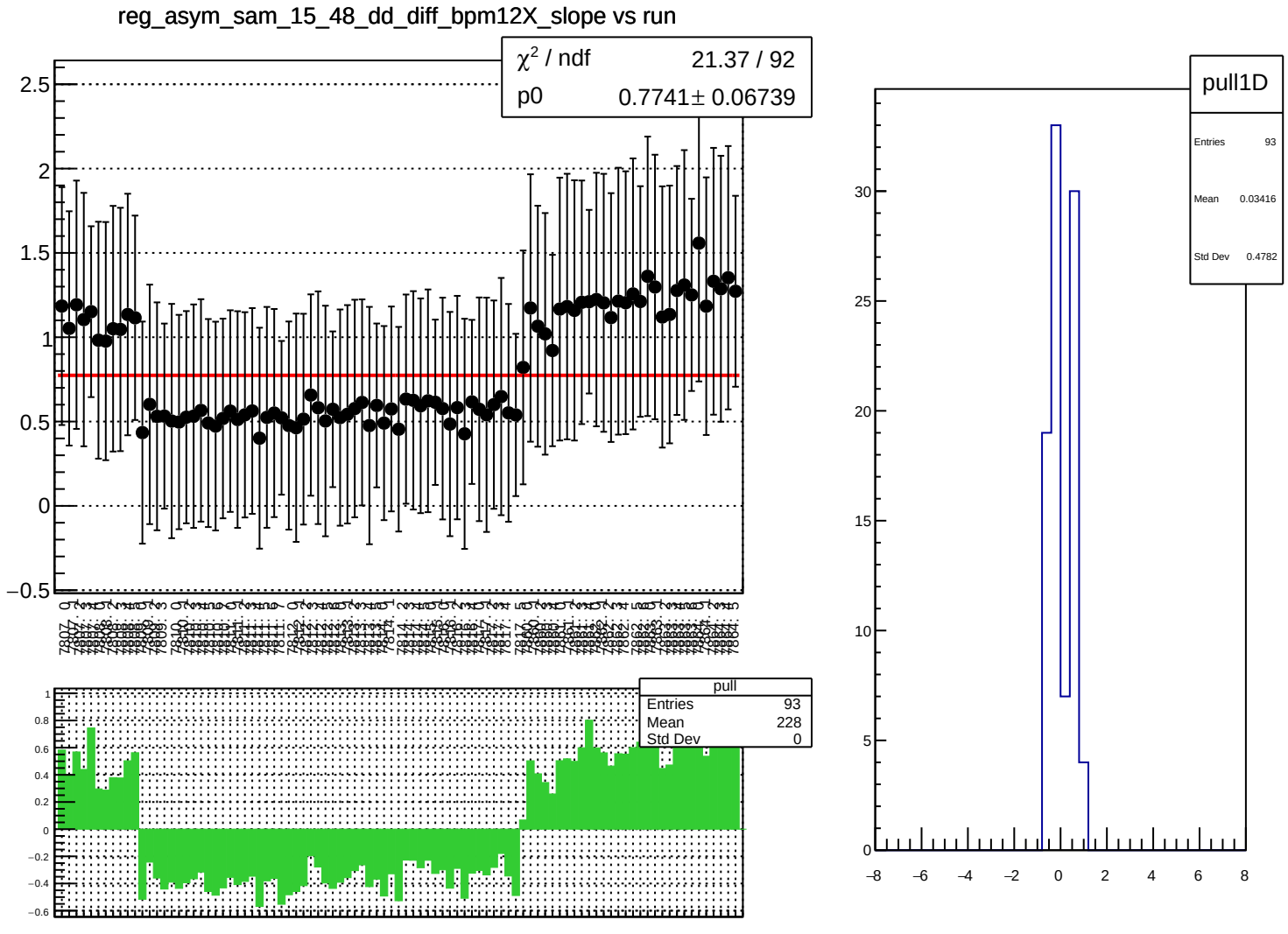

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 41.93 / 92
p0 −0.2119 ± 0.1053
pull
Entries 93
Mean 197.4
Std Dev 0
pull1D
Entries 93
Mean −0.05091
Std Dev 0.6696

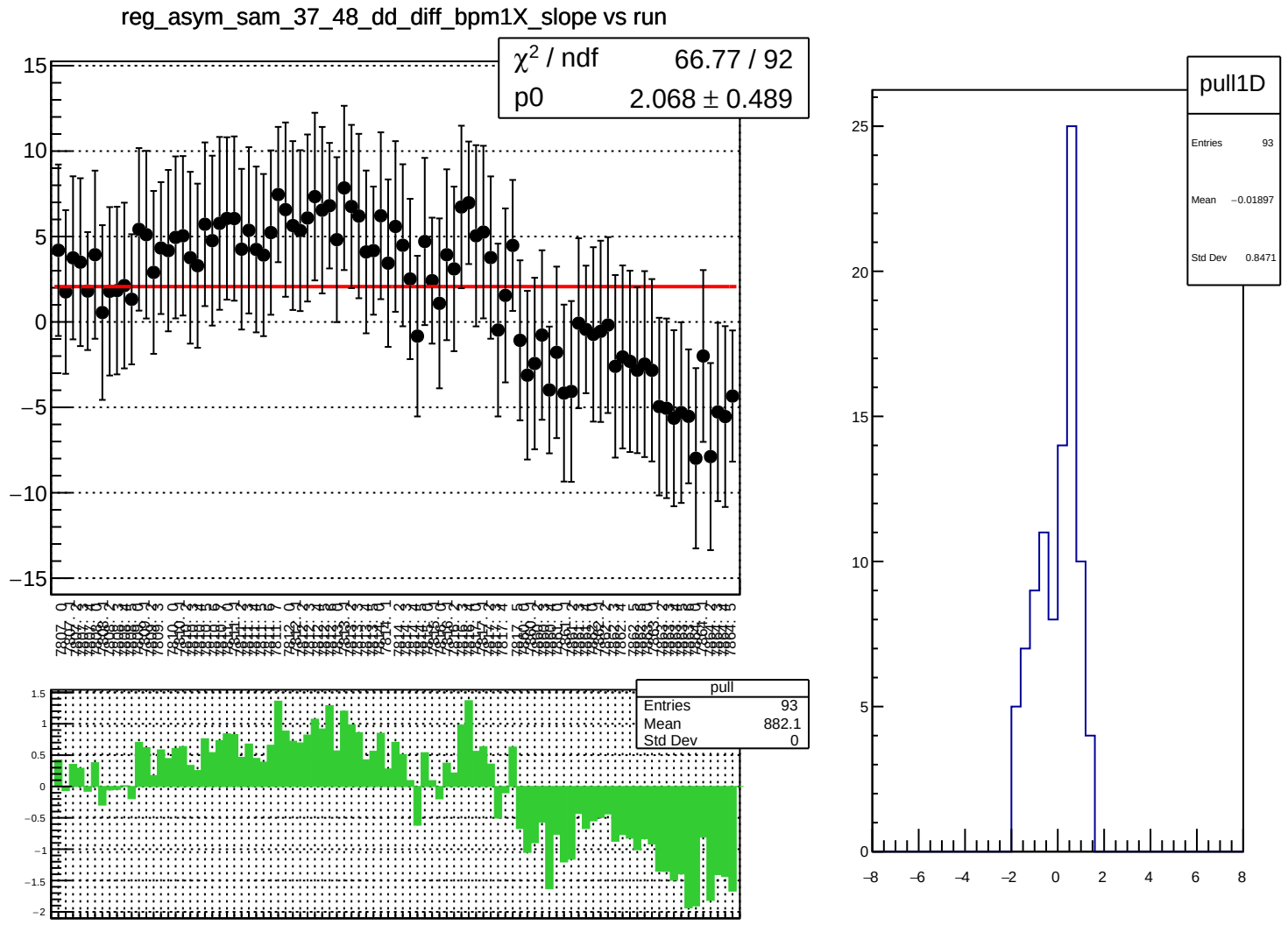

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 15.06 / 92
p0 22.96 ± 1.999
pull
Entries 93
Mean 641.5
Std Dev 0
pull1D
Entries 93
Mean 0.01033
Std Dev 0.4022

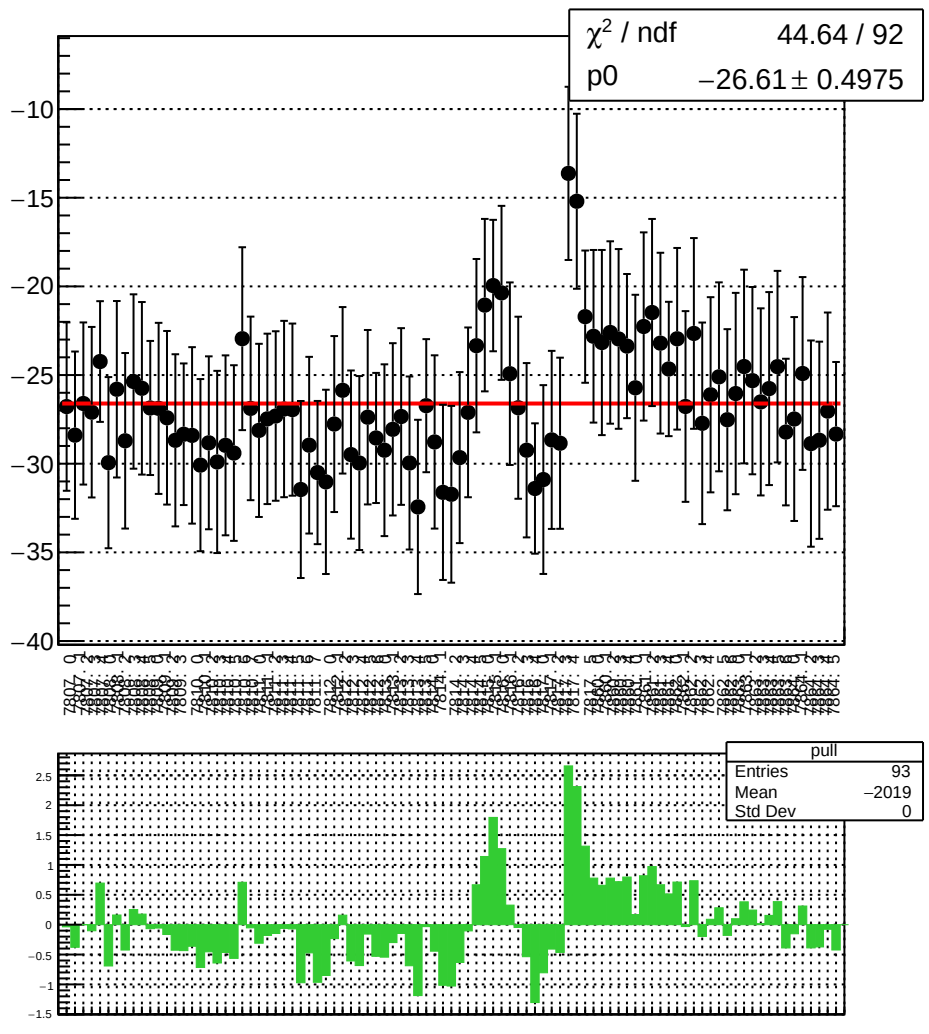

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.145 / 92
p0 −18.01 ± 2.034
pull
Entries 93
Mean 301.1
Std Dev 0
pull1D
Entries 93
Mean 0.00204
Std Dev 0.1109

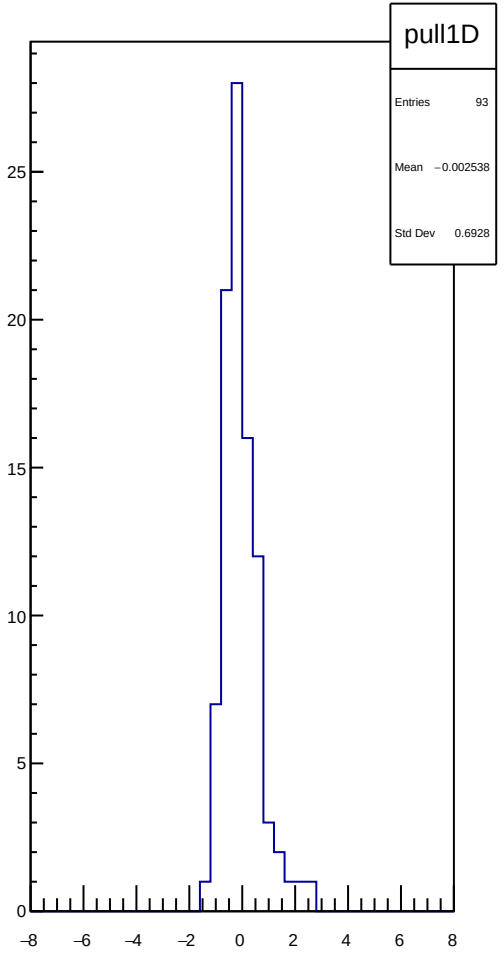

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 11.14 / 92
p0 34.04 ± 1.806
pull
Entries 93
Mean 1.707e+04
Std Dev 0
pull1D
Entries 93
Mean −0.0003195
Std Dev 0.3461

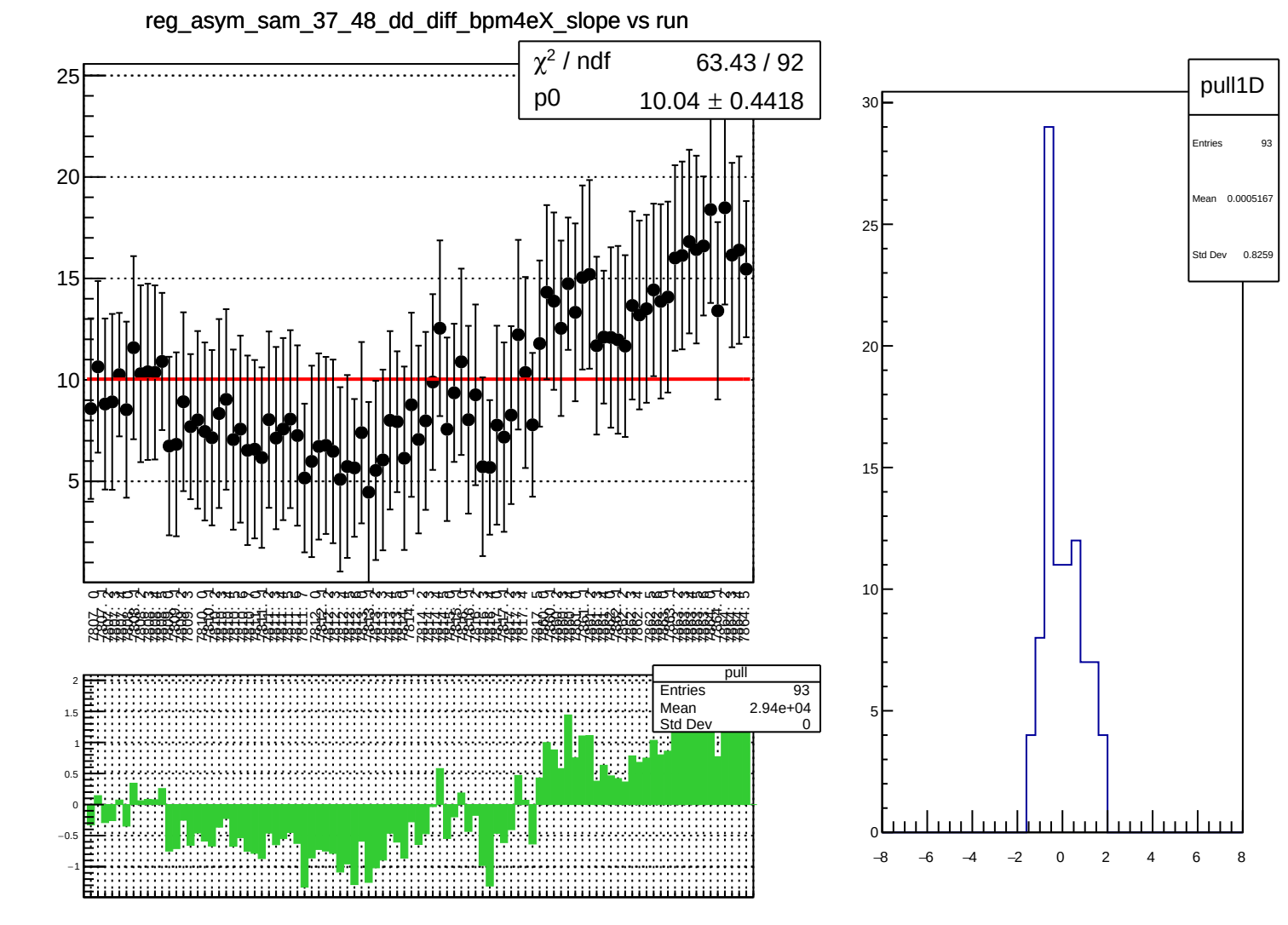

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.026 / 92
p0 −9.981 ± 2.318
pull
Entries 93
Mean 221
Std Dev 0
pull1D
Entries 93
Mean −0.002386
Std Dev 0.105

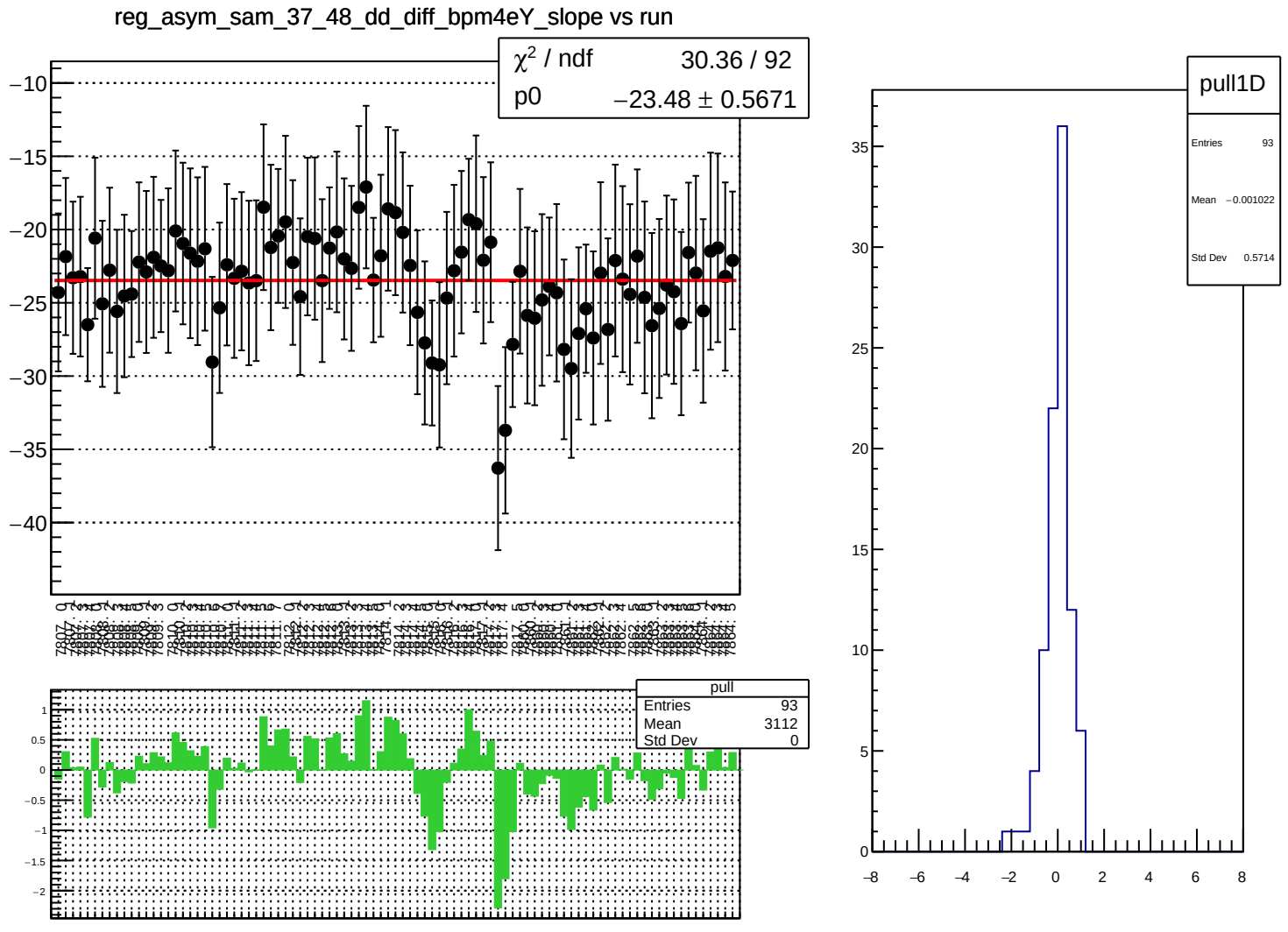

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 21.37 / 92
p0 0.7741± 0.06739
pull
Entries 93
Mean 228
Std Dev 0
pull1D
Entries 93
Mean 0.03416
Std Dev 0.4782

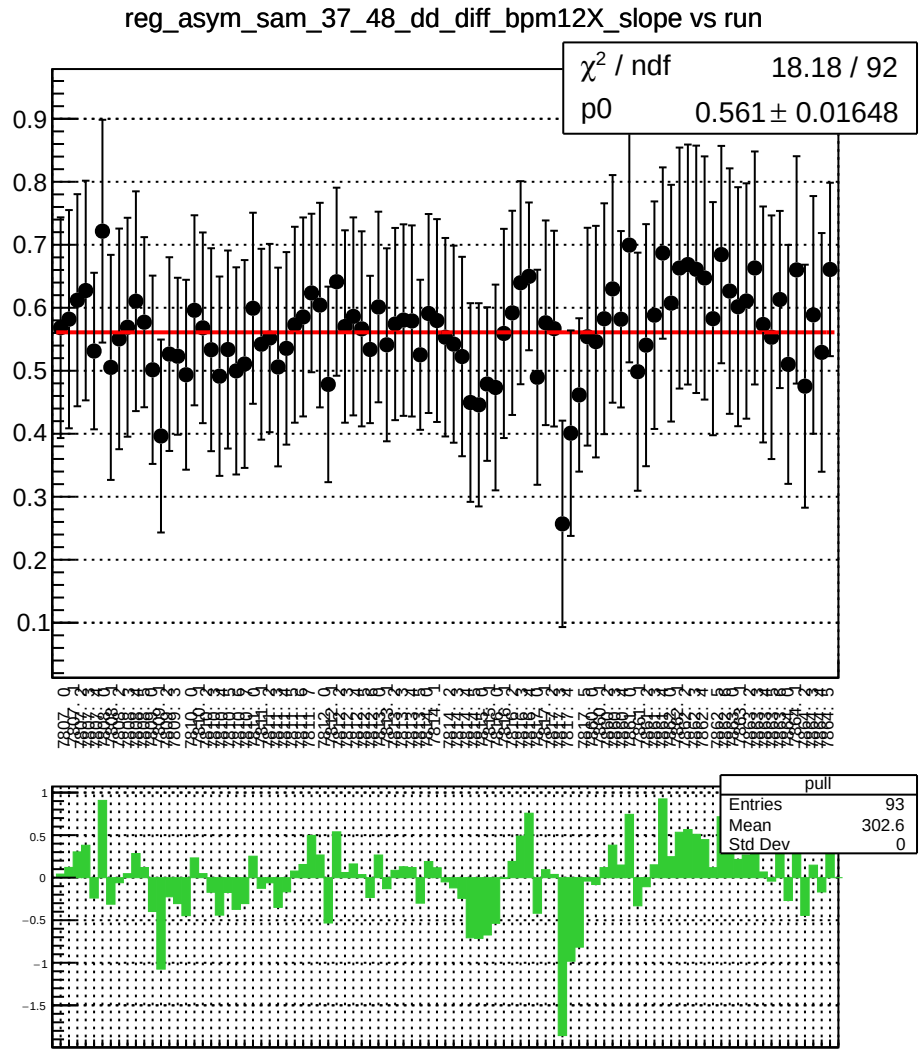

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 66.77 / 92
p0 2.068 ± 0.489
pull
Entries 93
Mean 882.1
Std Dev 0
pull1D
Entries 93
Mean −0.01897
Std Dev 0.8471

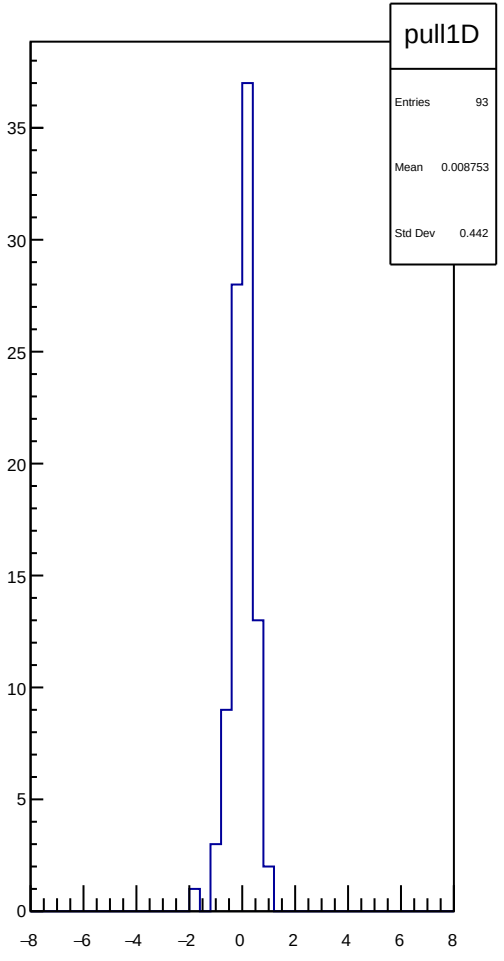

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 44.64 / 92
p0 −26.61 ± 0.4975
pull
Entries 93
Mean −2019
Std Dev 0

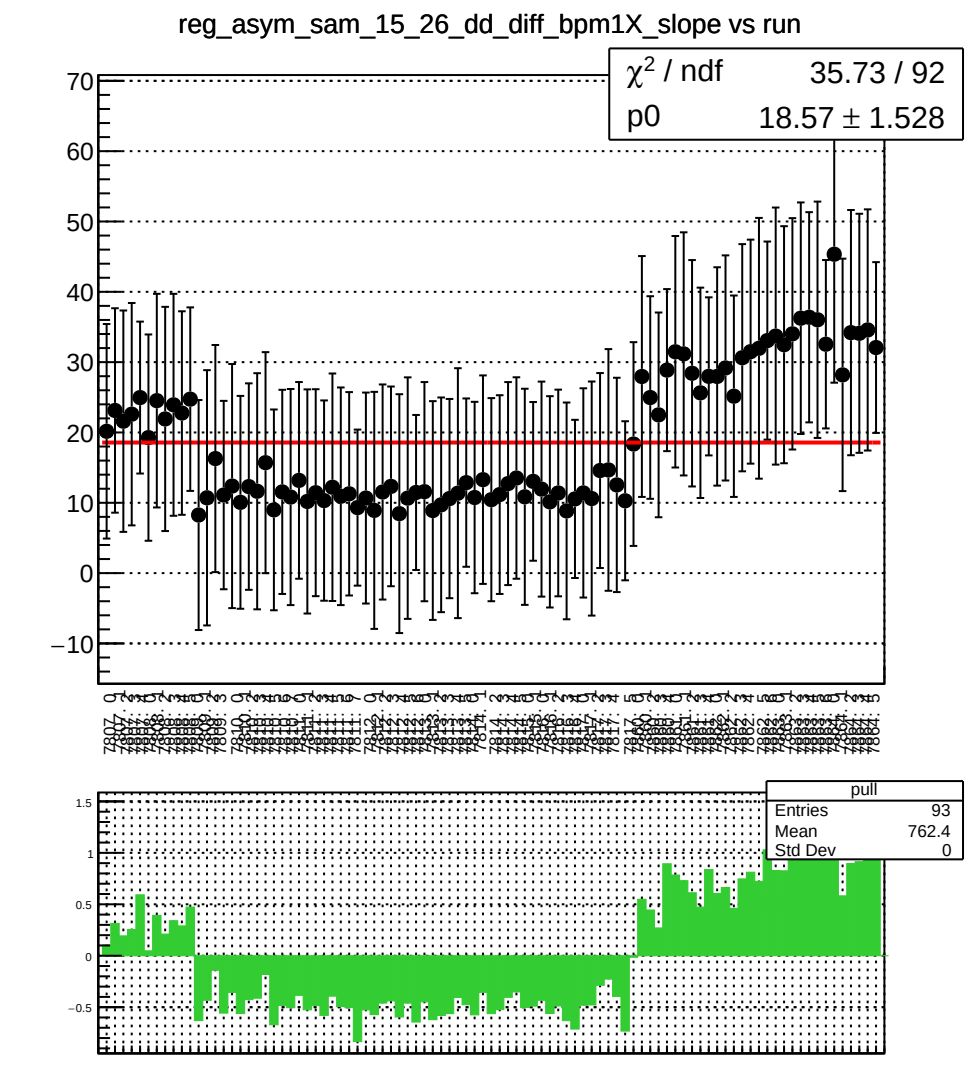

pull1D
Entries 93
Mean −0.002538
Std Dev 0.6928

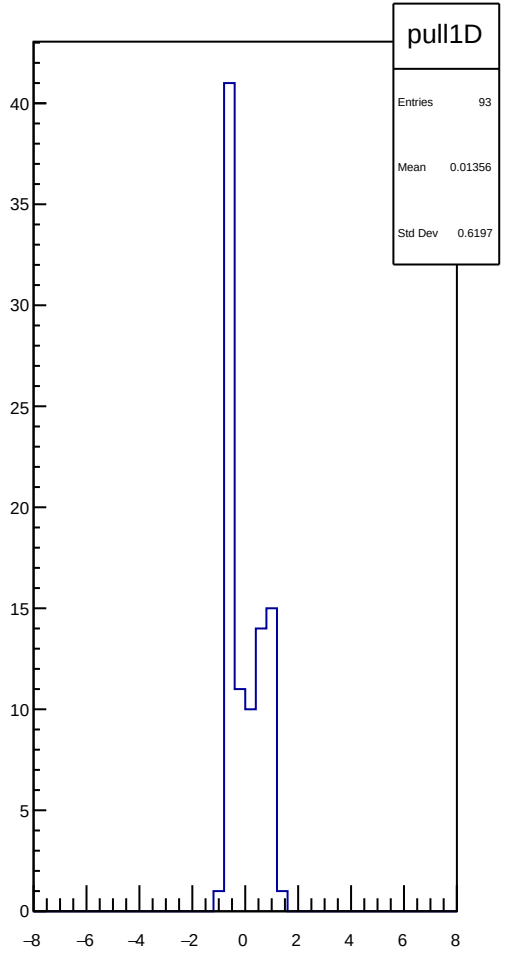

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 63.43 / 92
p0 10.04 ± 0.4418
pull
Entries 93
Mean 2.94e+04
Std Dev 0
pull1D
Entries 93
Mean 0.0005167
Std Dev 0.8259

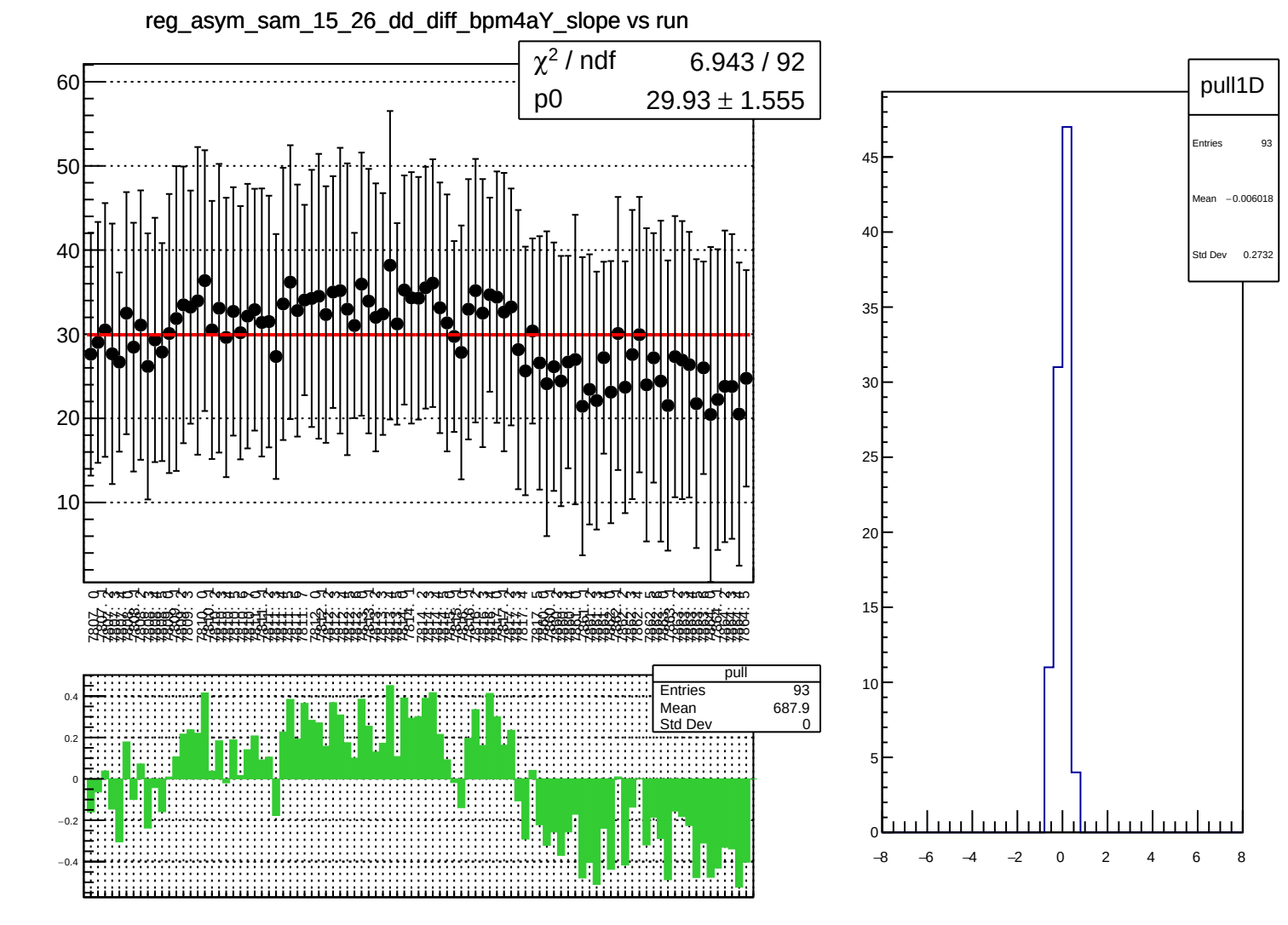

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 30.36 / 92
p0 −23.48 ± 0.5671
pull
Entries 93
Mean 3112
Std Dev 0
pull1D
Entries 93
Mean −0.001022
Std Dev 0.5714

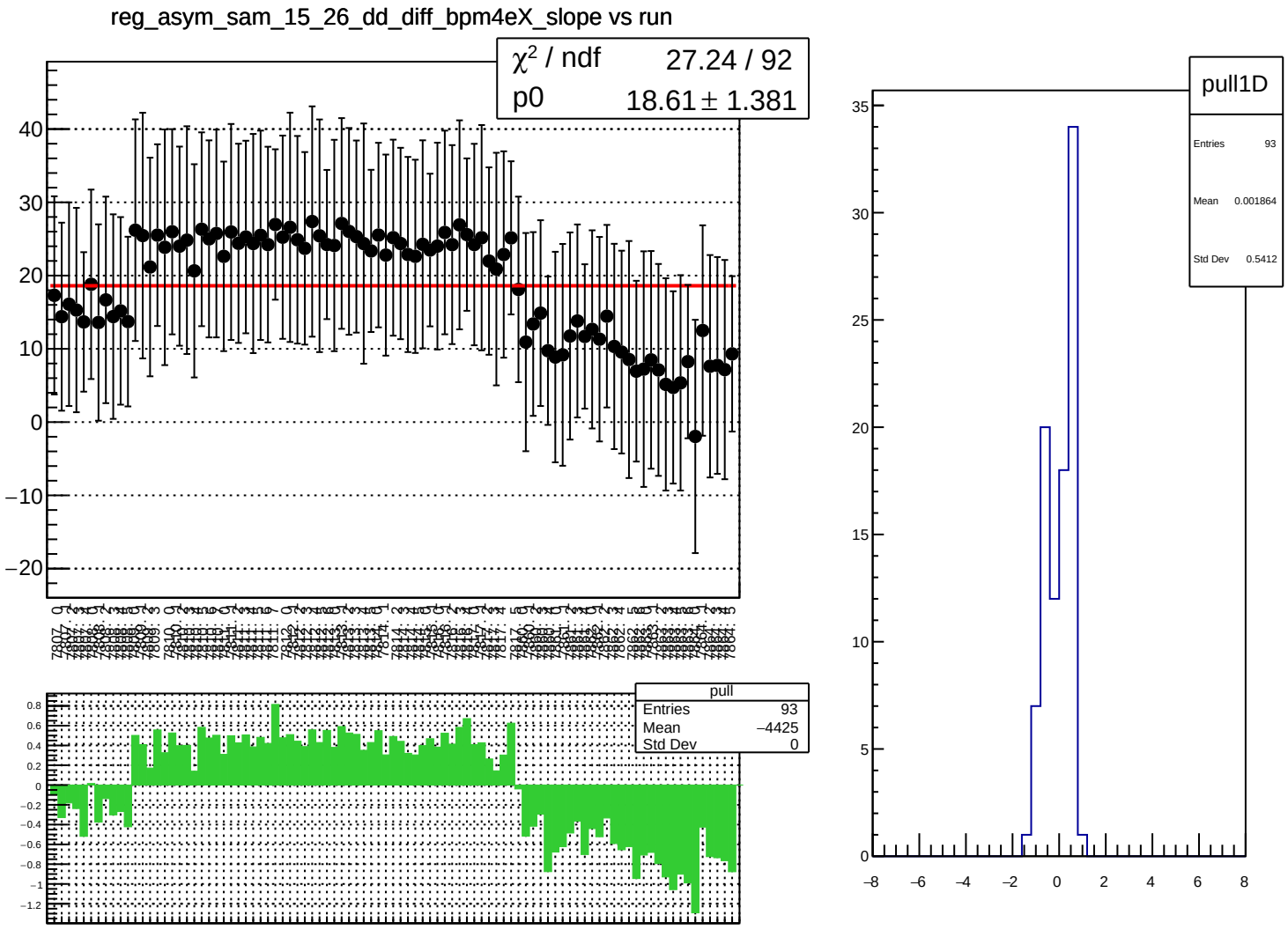

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 18.18 / 92
p0 0.561 ± 0.01648
pull
Entries 93
Mean 302.6
Std Dev 0

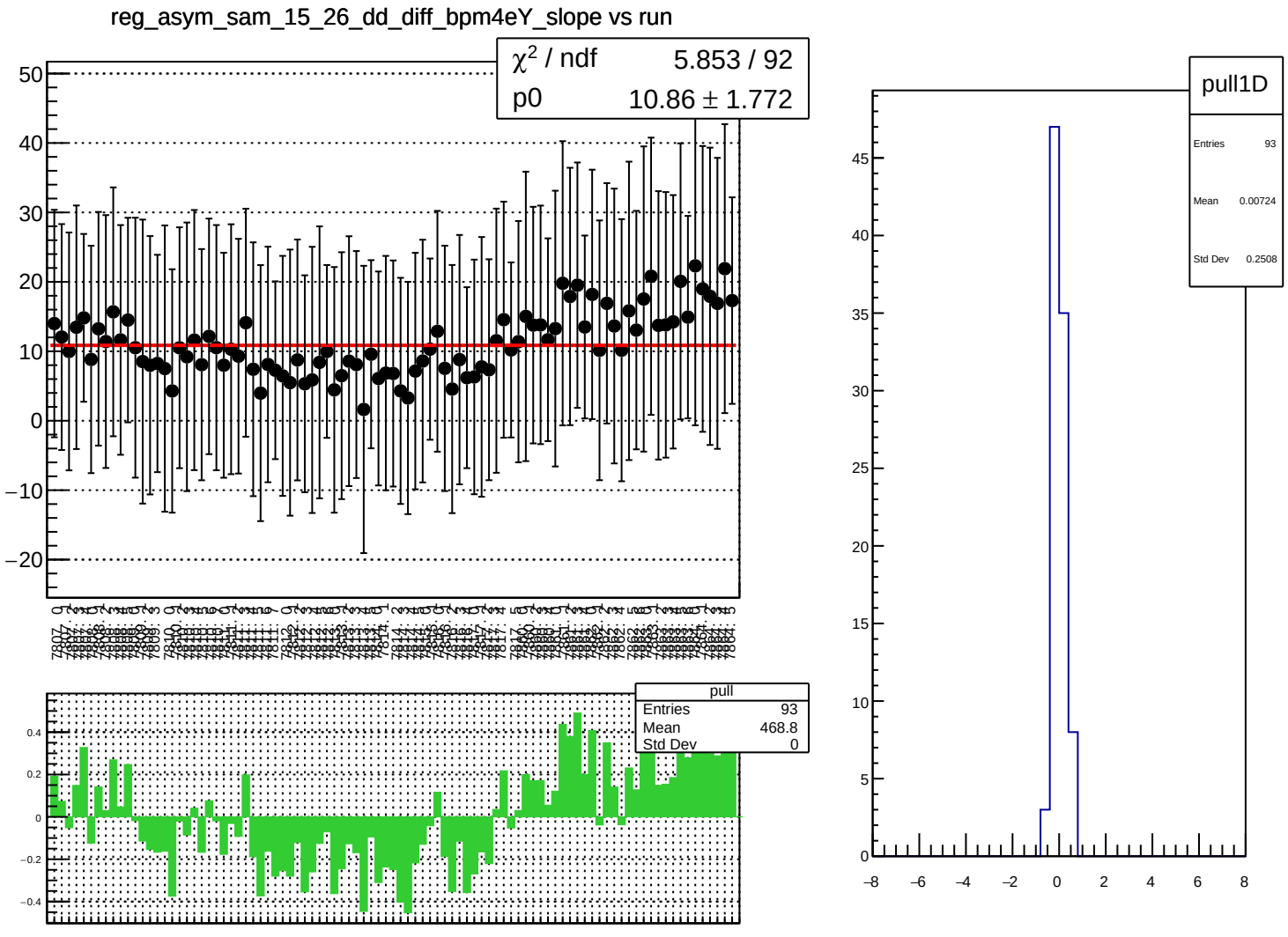

pull1D
Entries 93
Mean 0.008753
Std Dev 0.442

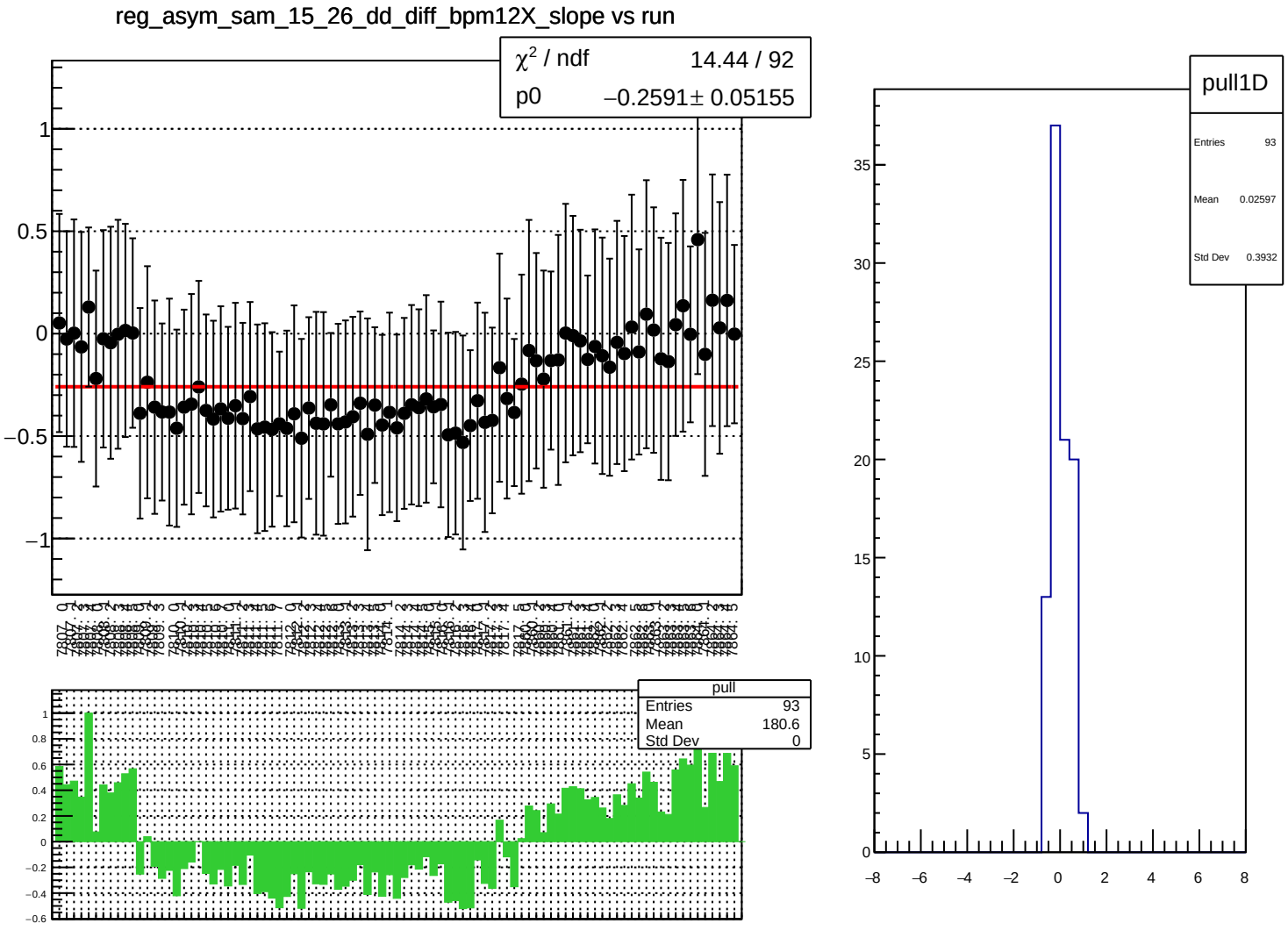

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 35.73 / 92
p0 18.57 ± 1.528
pull
Entries 93
Mean 762.4
Std Dev 0

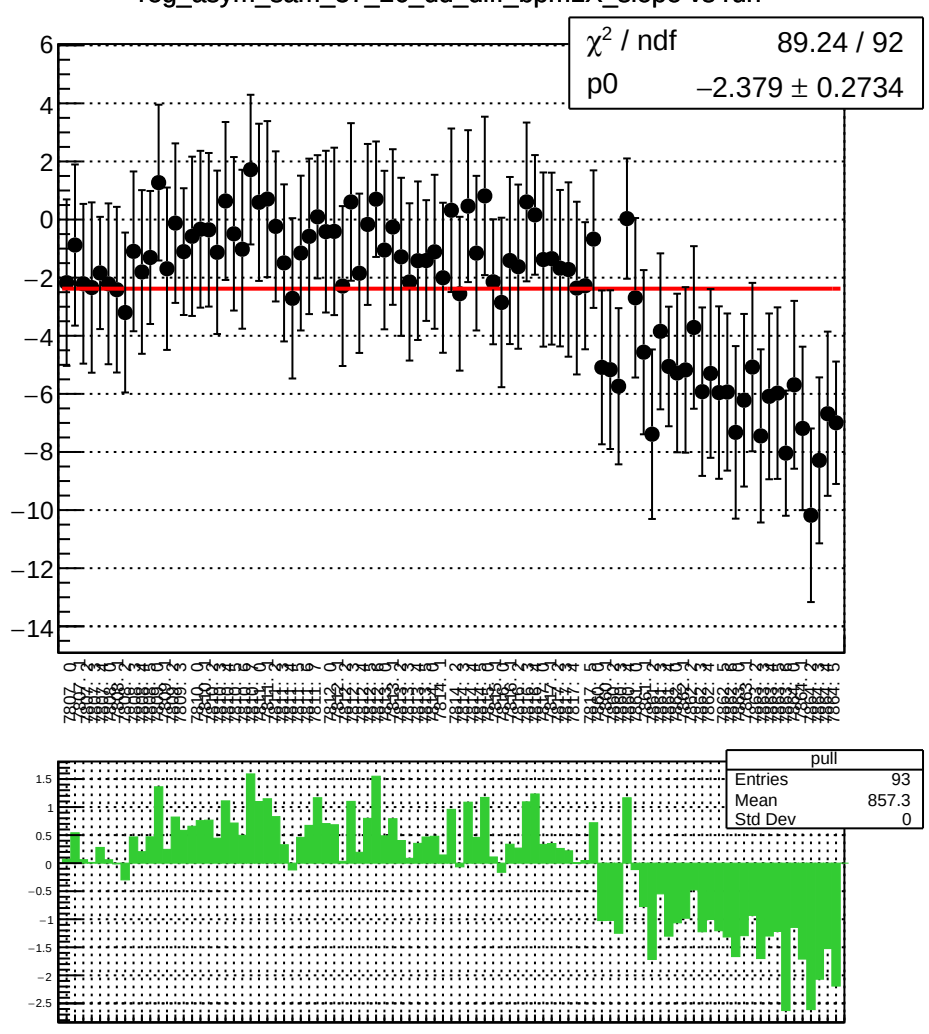

pull1D
Entries 93
Mean 0.01356
Std Dev 0.6197

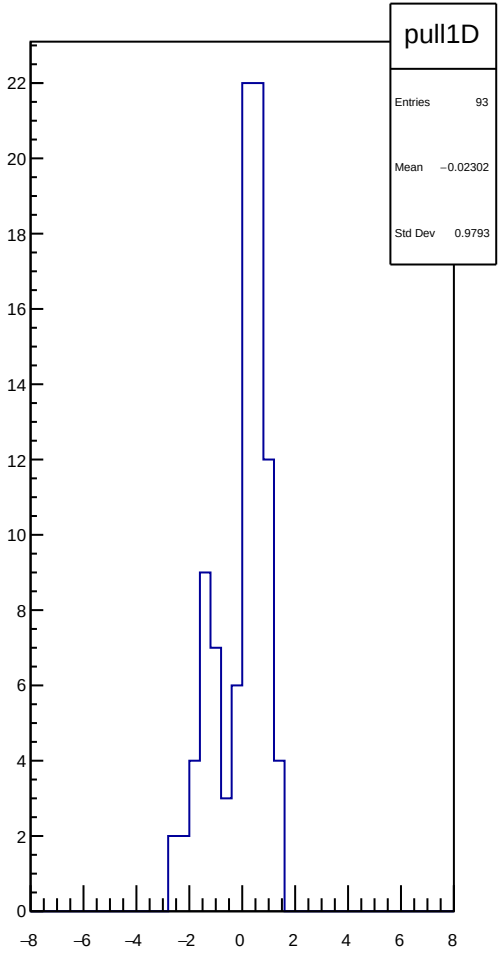

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.943 / 92
p0 29.93 ± 1.555
pull
Entries 93
Mean 687.9
Std Dev 0
pull1D
Entries 93
Mean −0.006018
Std Dev 0.2732

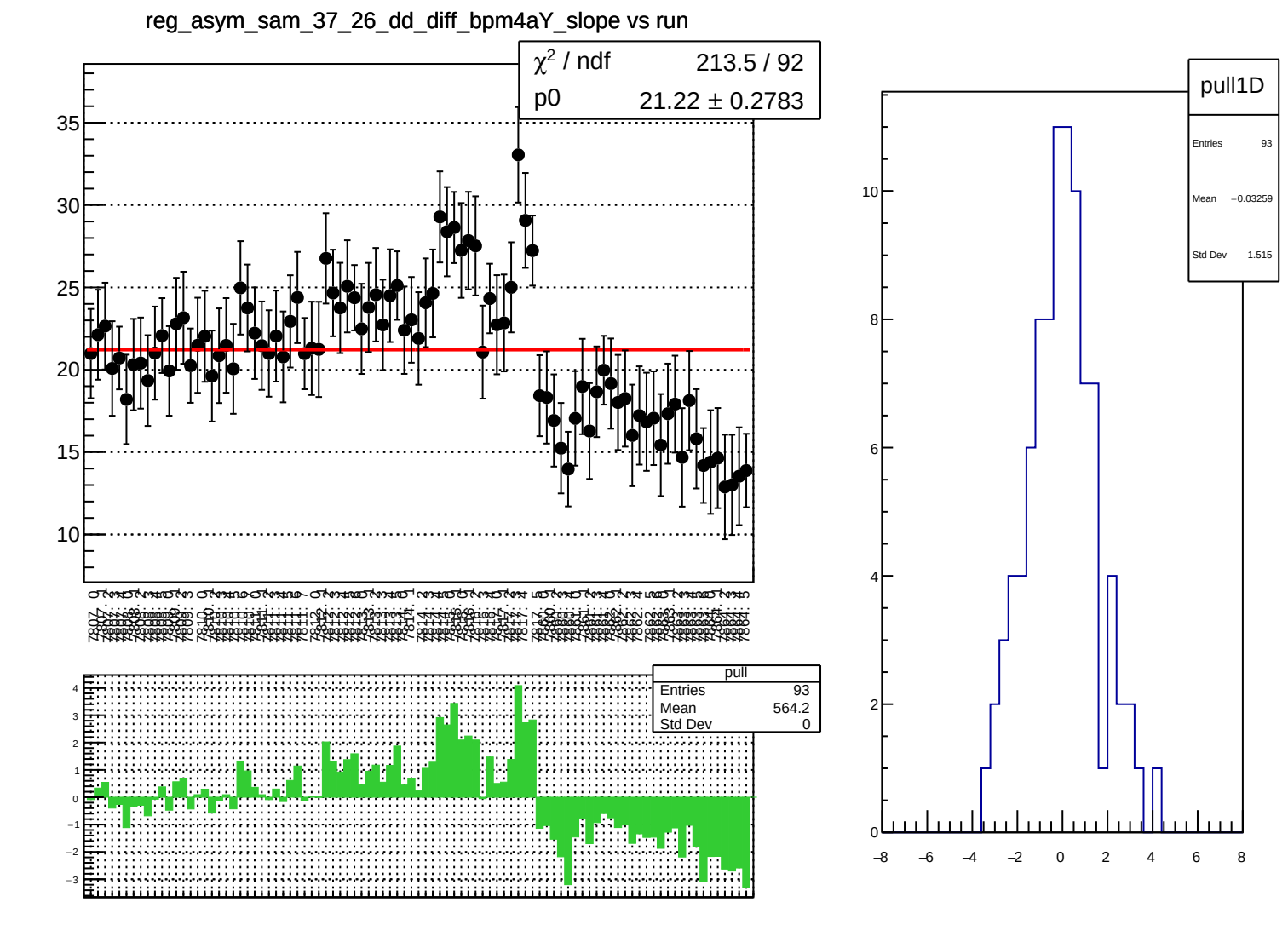

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 27.24 / 92
p0 18.61 ± 1.381
pull
Entries 93
Mean −4425
Std Dev 0
pull1D
Entries 93
Mean 0.001864
Std Dev 0.5412

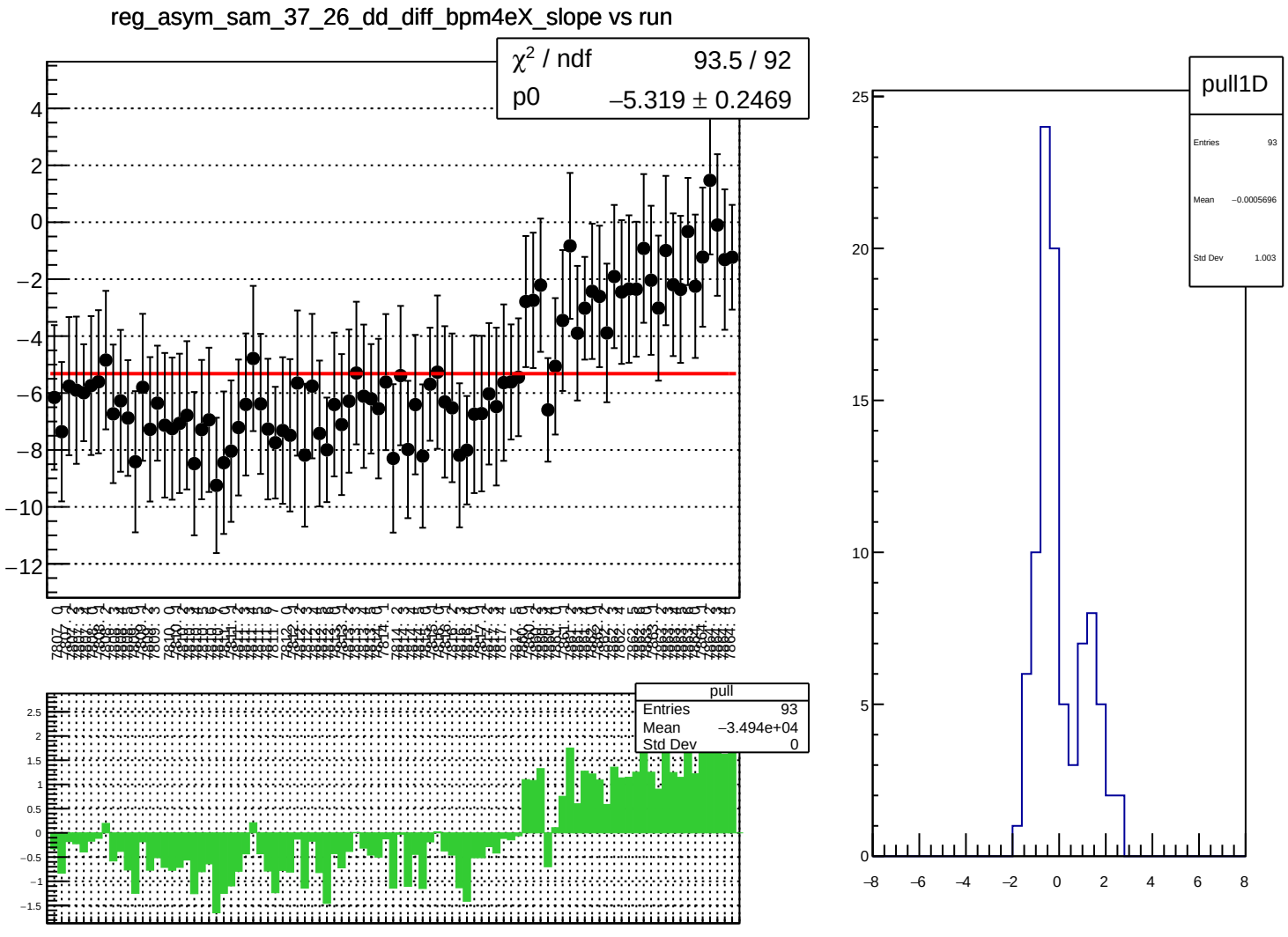

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.853 / 92
p0 10.86 ± 1.772
pull
Entries 93
Mean 468.8
Std Dev 0
pull1D
Entries 93
Mean 0.00724
Std Dev 0.2508

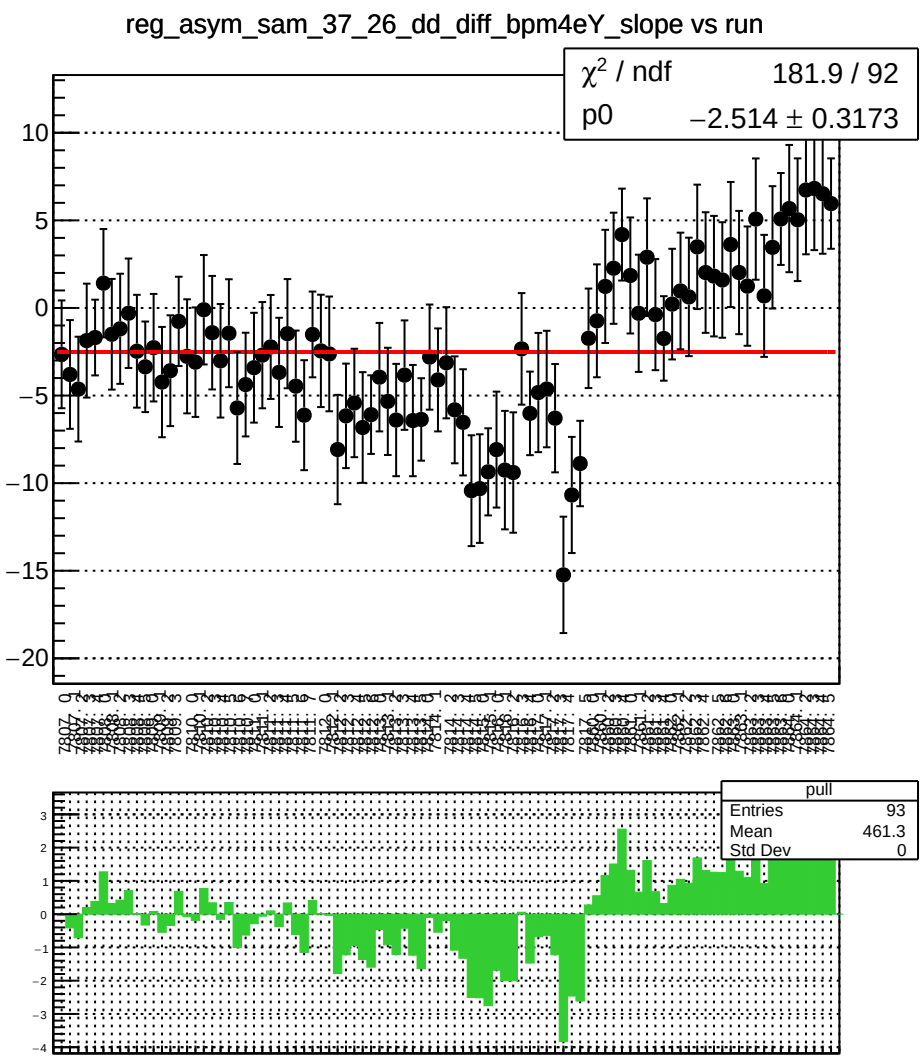

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 14.44 / 92
p0 −0.2591 ± 0.05155
pull
Entries 93
Mean 180.6
Std Dev 0
pull1D
Entries 93
Mean 0.02597
Std Dev 0.3932

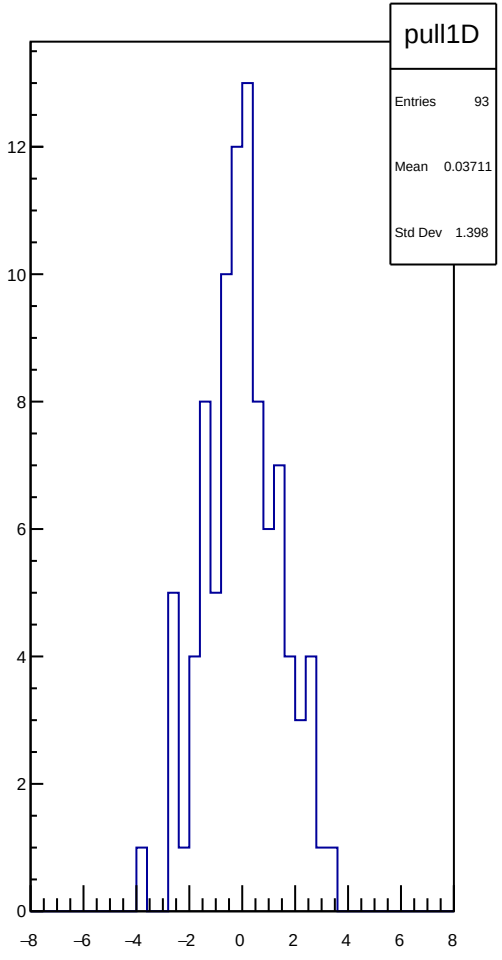

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 89.24 / 92
p0 −2.379 ± 0.2734
pull
Entries 93
Mean 857.3
Std Dev 0

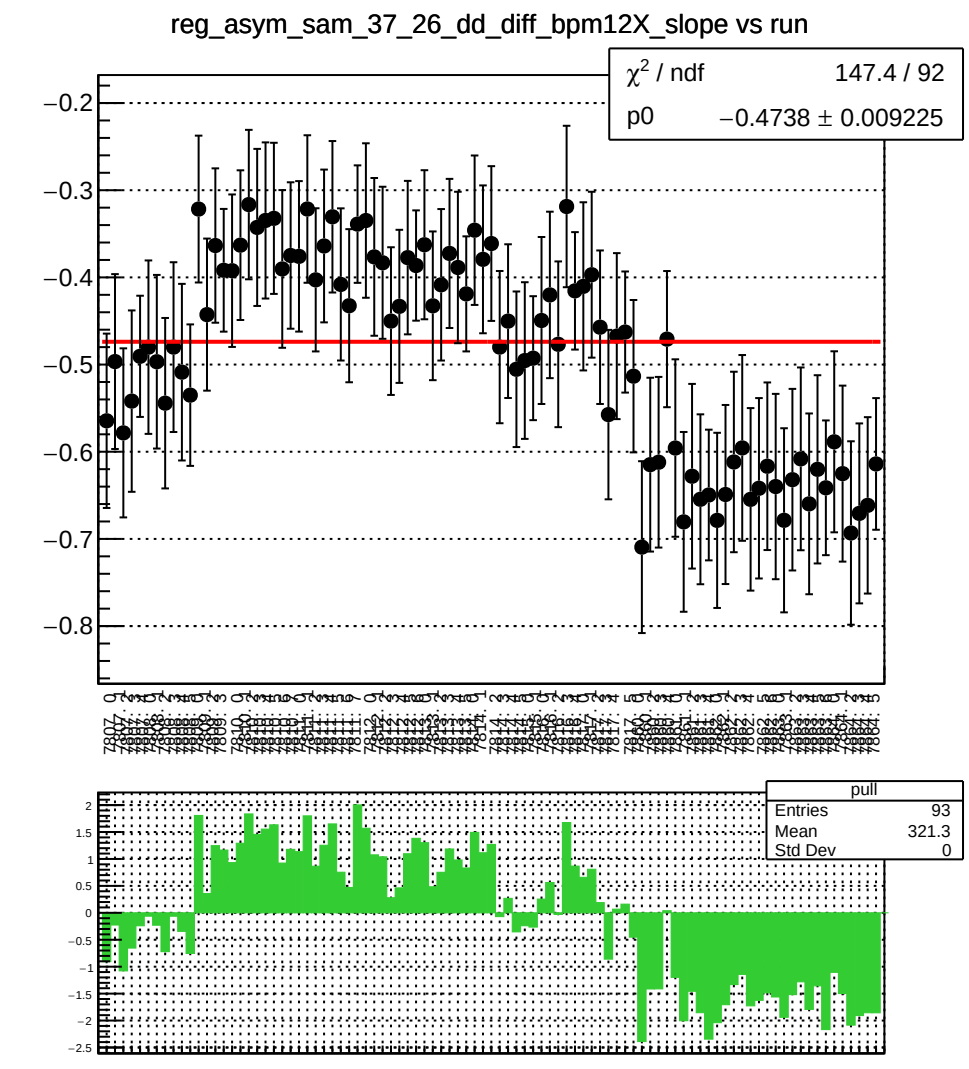

pull1D
Entries 93
Mean −0.02302
Std Dev 0.9793

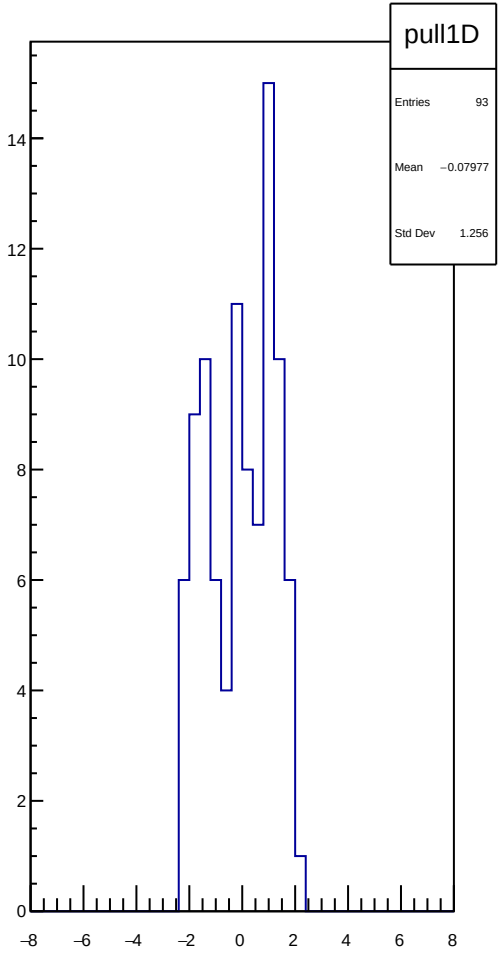

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 213.5 / 92
p0 21.22 ± 0.2783
pull
Entries 93
Mean 564.2
Std Dev 0
pull1D
Entries 93
Mean −0.03259
Std Dev 1.515

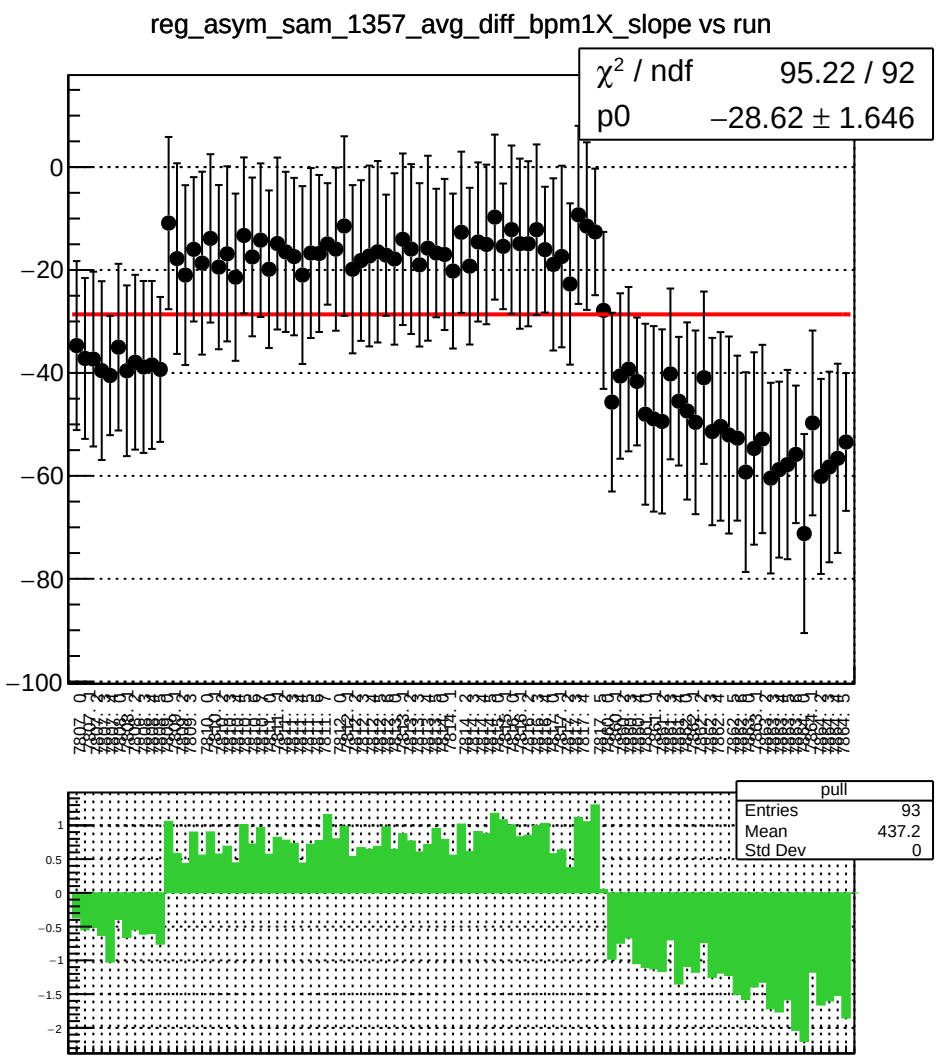

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 93.5 / 92
p0 −5.319 ± 0.2469
pull
Entries 93
Mean −3.494e+04
Std Dev 0
pull1D
Entries 93
Mean −0.0005696
Std Dev 1.003

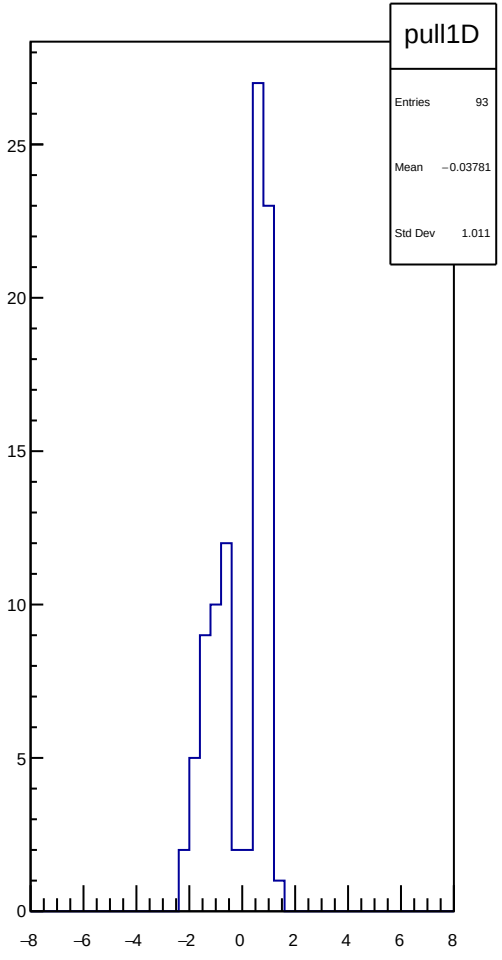

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 181.9 / 92
p0 −2.514 ± 0.3173
pull
Entries 93
Mean 461.3
Std Dev 0

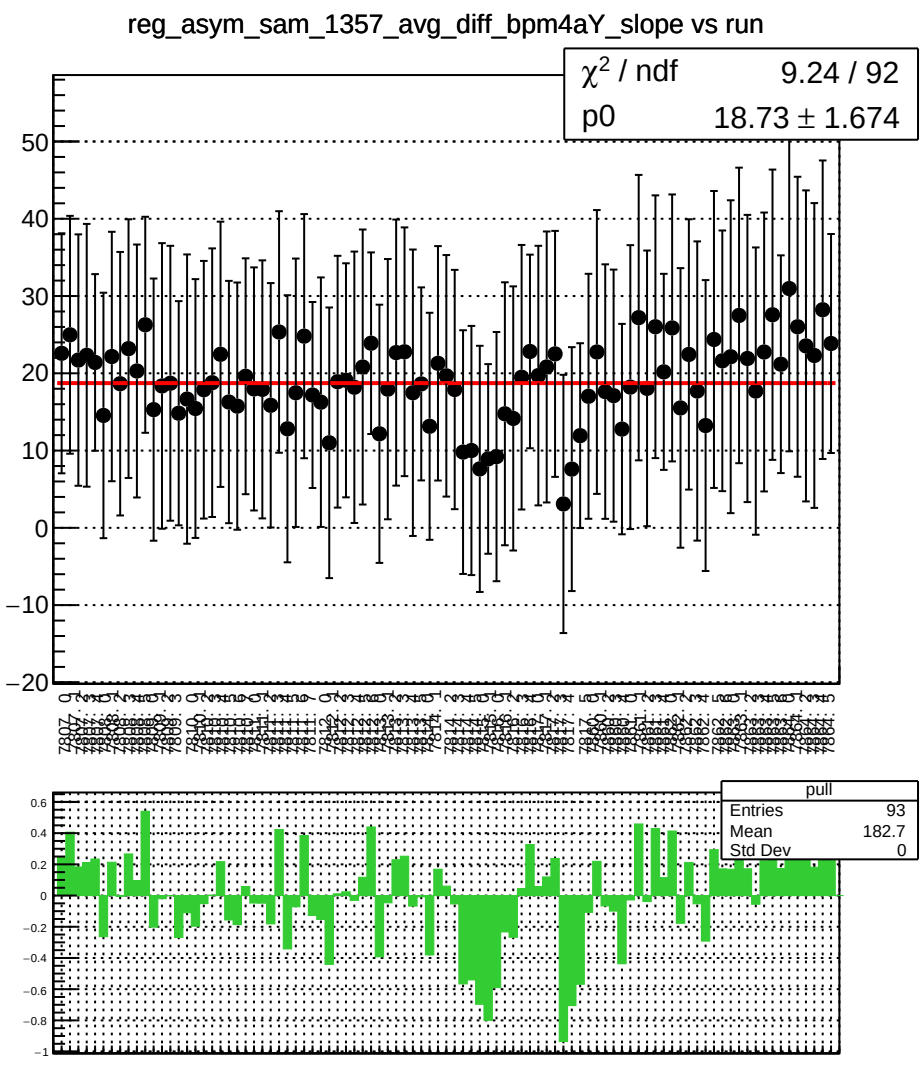

pull1D
Entries 93
Mean 0.03711
Std Dev 1.398

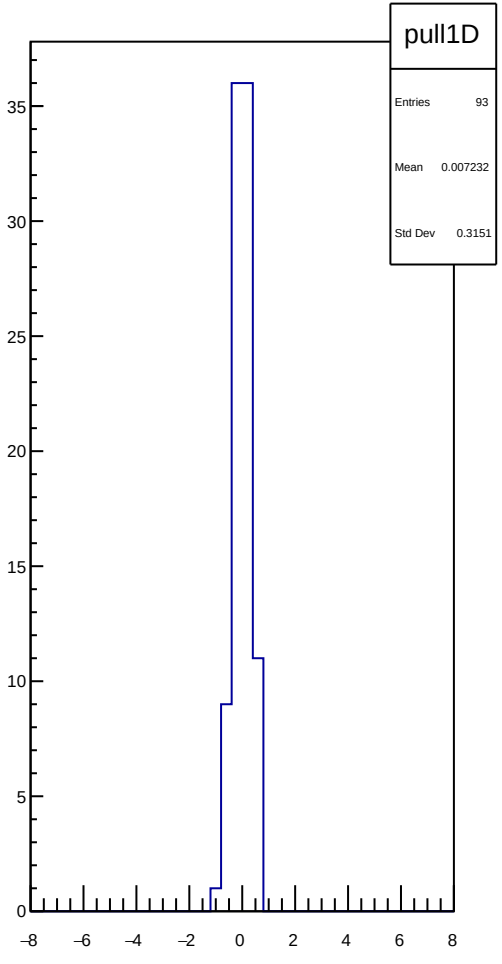

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 147.4 / 92
p0 −0.4738 ± 0.009225
pull
Entries 93
Mean 321.3
Std Dev 0

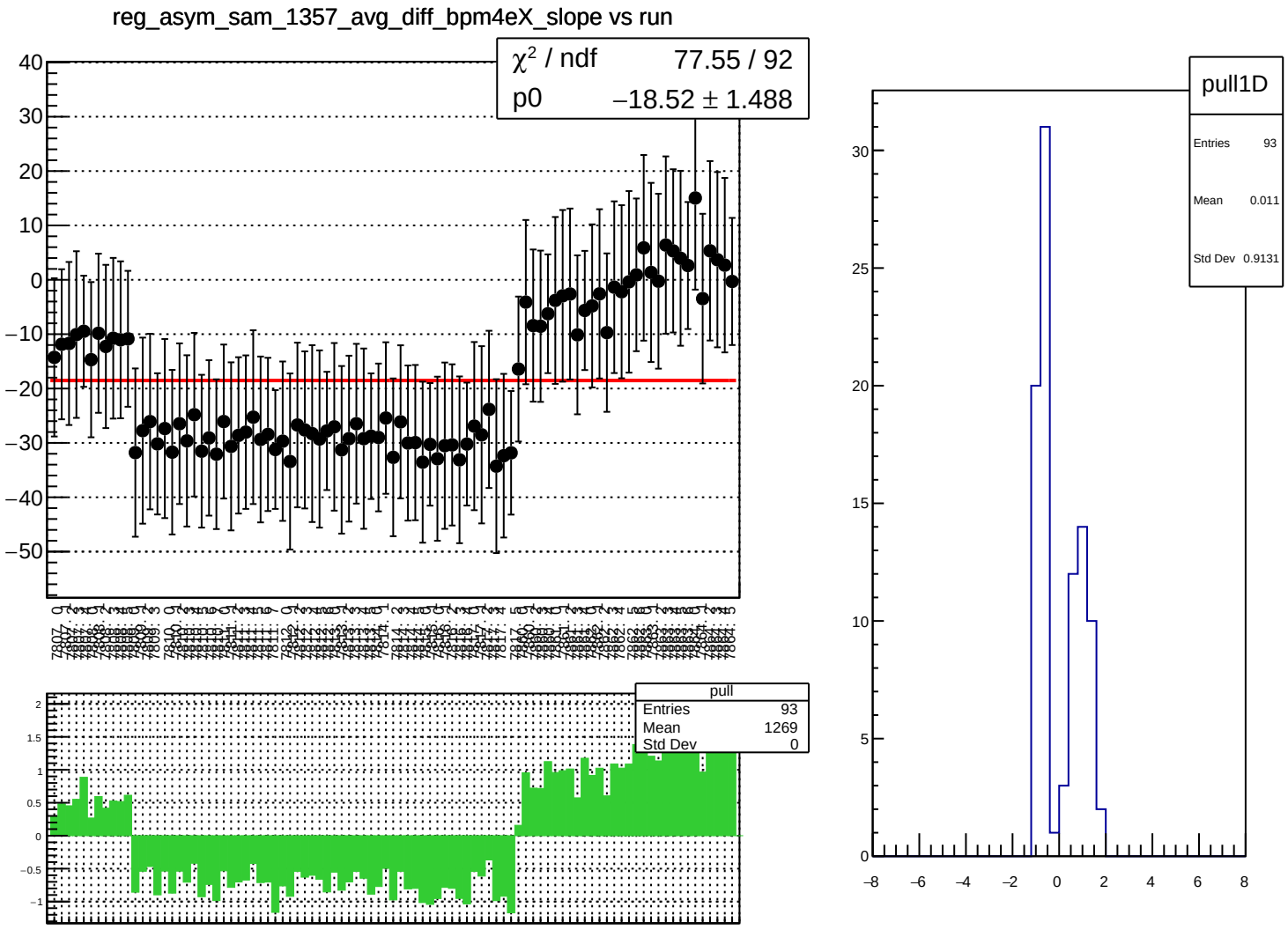

pull1D
Entries 93
Mean −0.07977
Std Dev 1.256

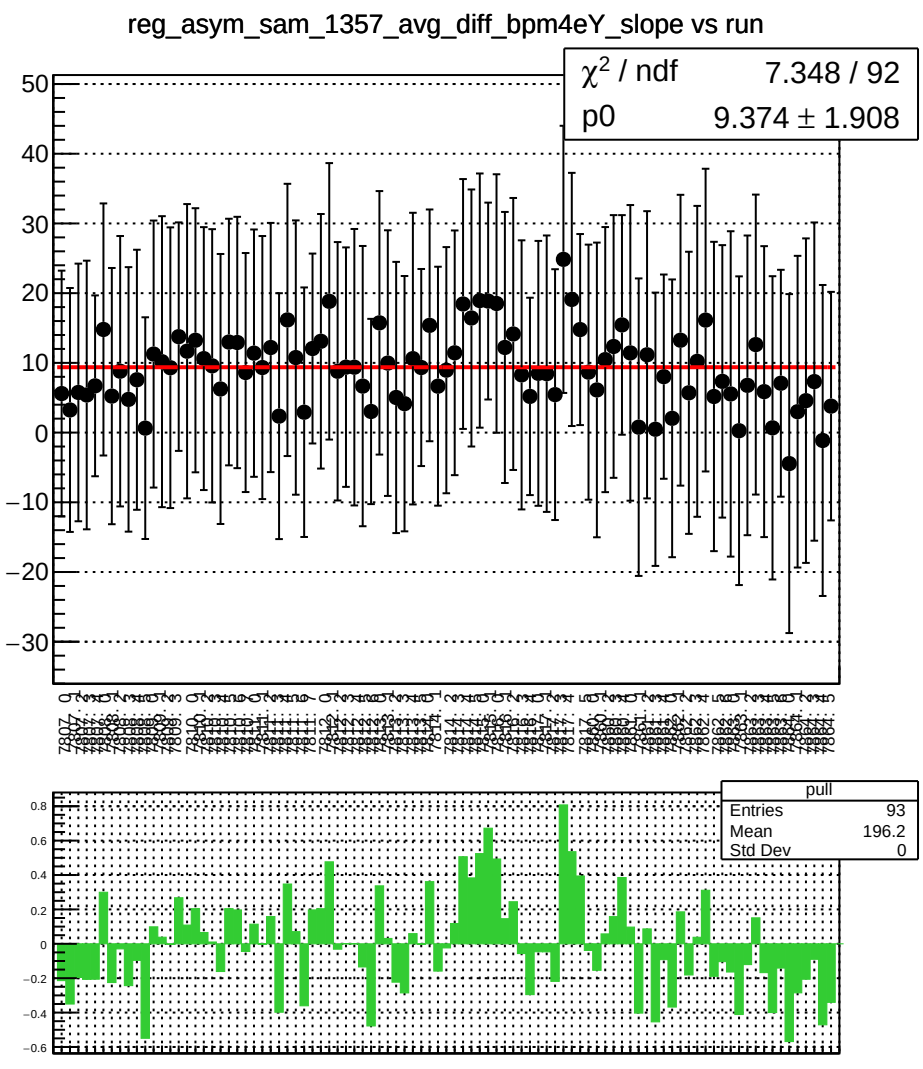

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 95.22 / 92
p0 −28.62 ± 1.646
pull
Entries 93
Mean 437.2
Std Dev 0

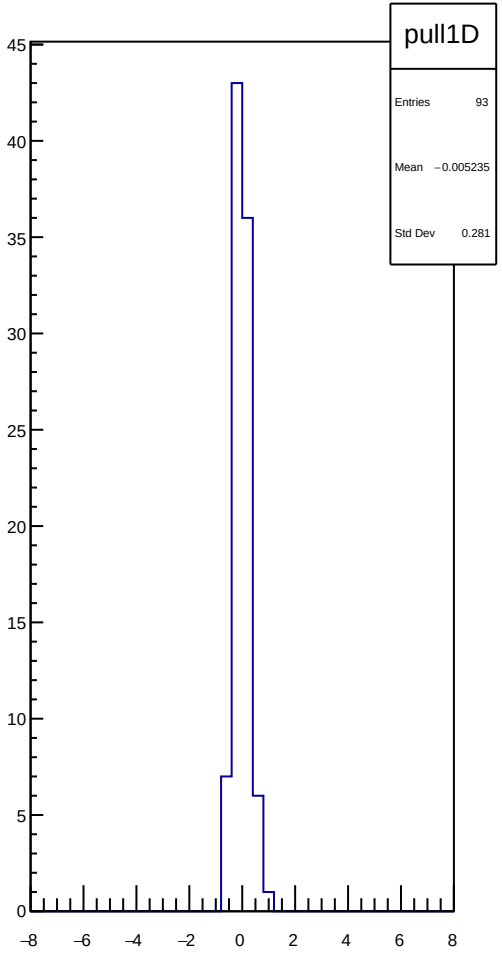

pull1D
Entries 93
Mean −0.03781
Std Dev 1.011

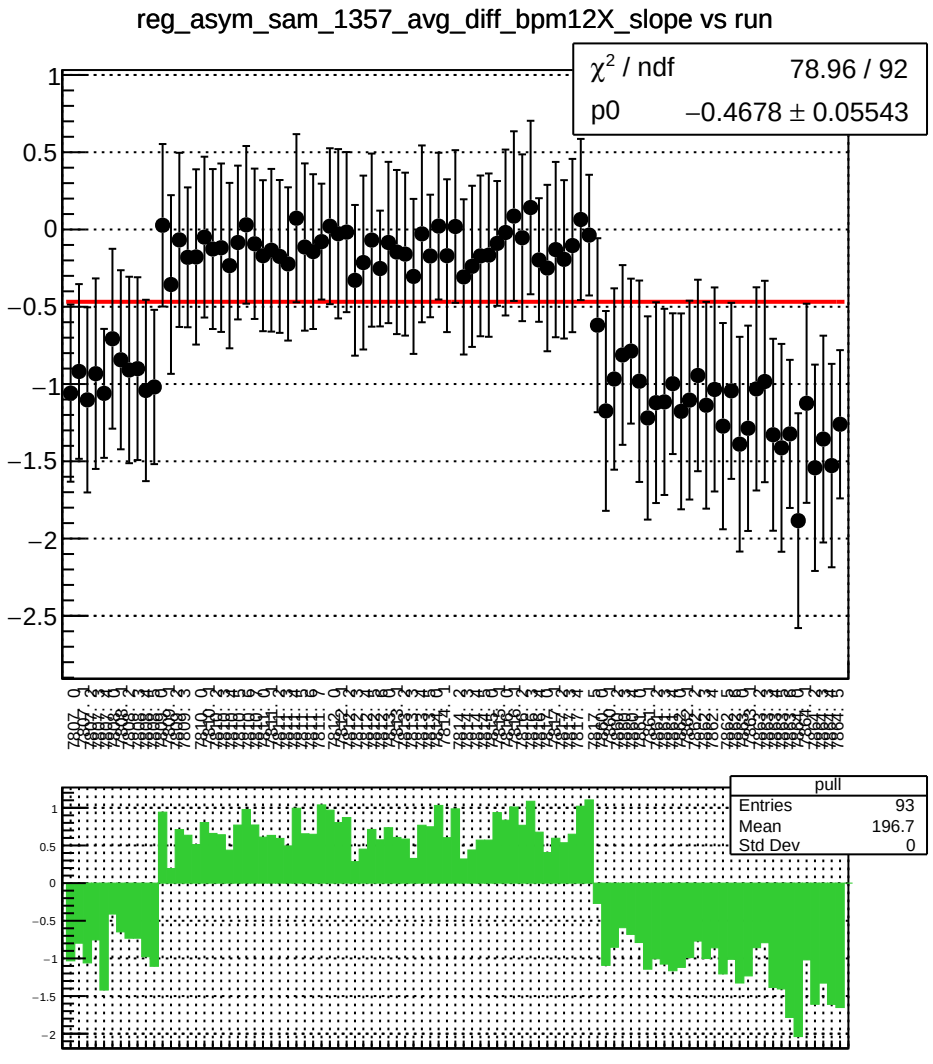

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.24 / 92
p0 18.73 ± 1.674
pull
Entries 93
Mean 182.7
Std Dev 0

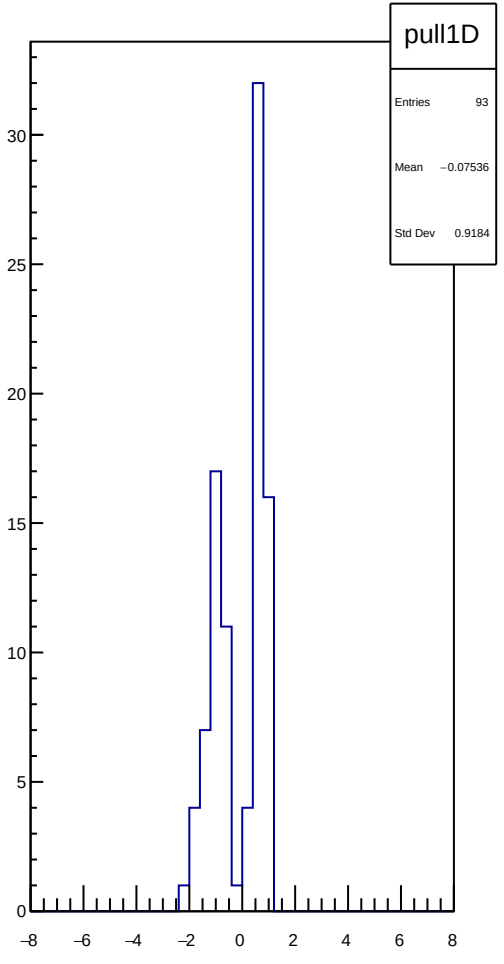

pull1D
Entries 93
Mean 0.007232
Std Dev 0.3151

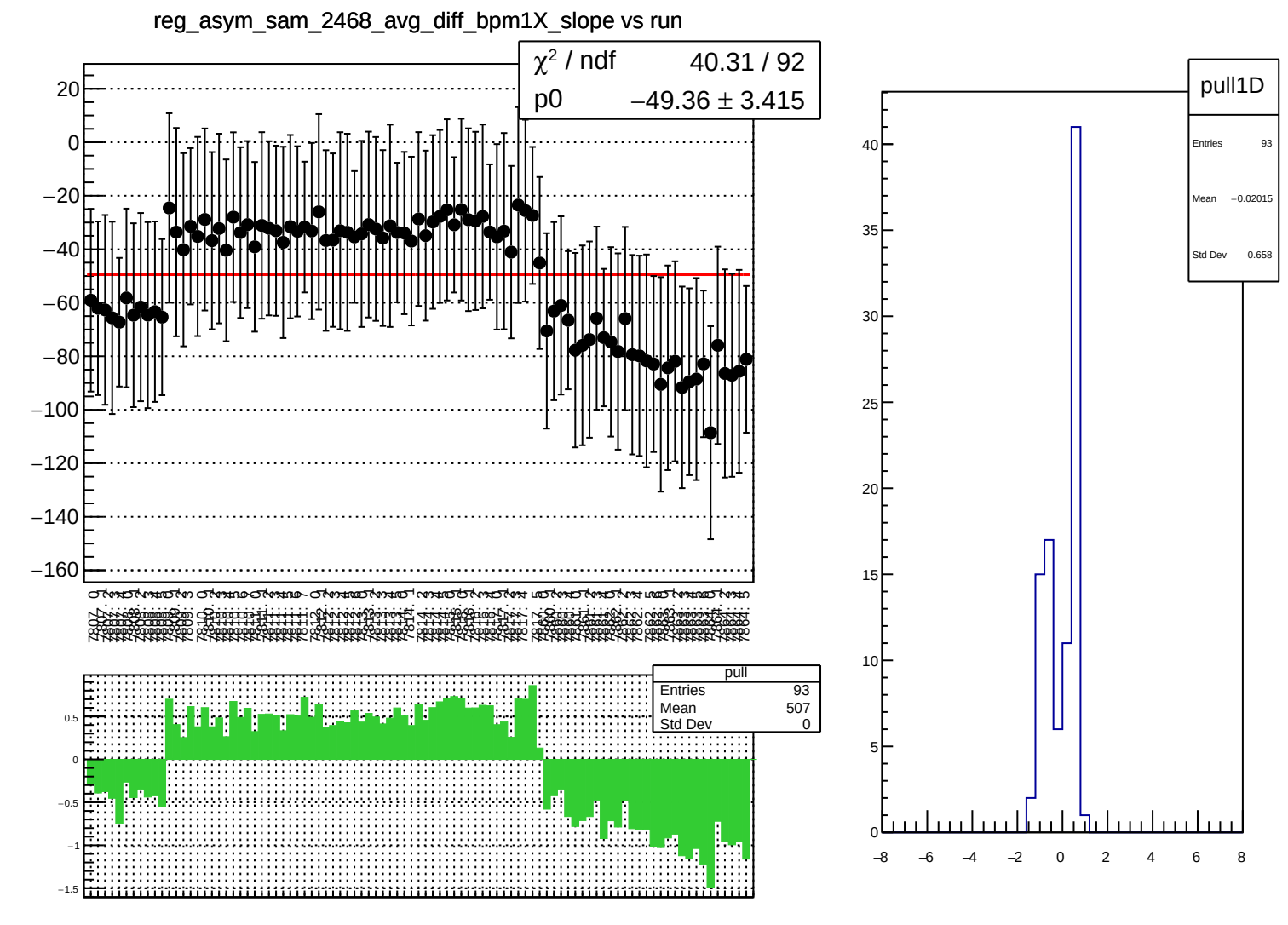

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 77.55 / 92
p0 −18.52 ± 1.488
pull
Entries 93
Mean 1269
Std Dev 0
pull1D
Entries 93
Mean 0.011
Std Dev 0.9131

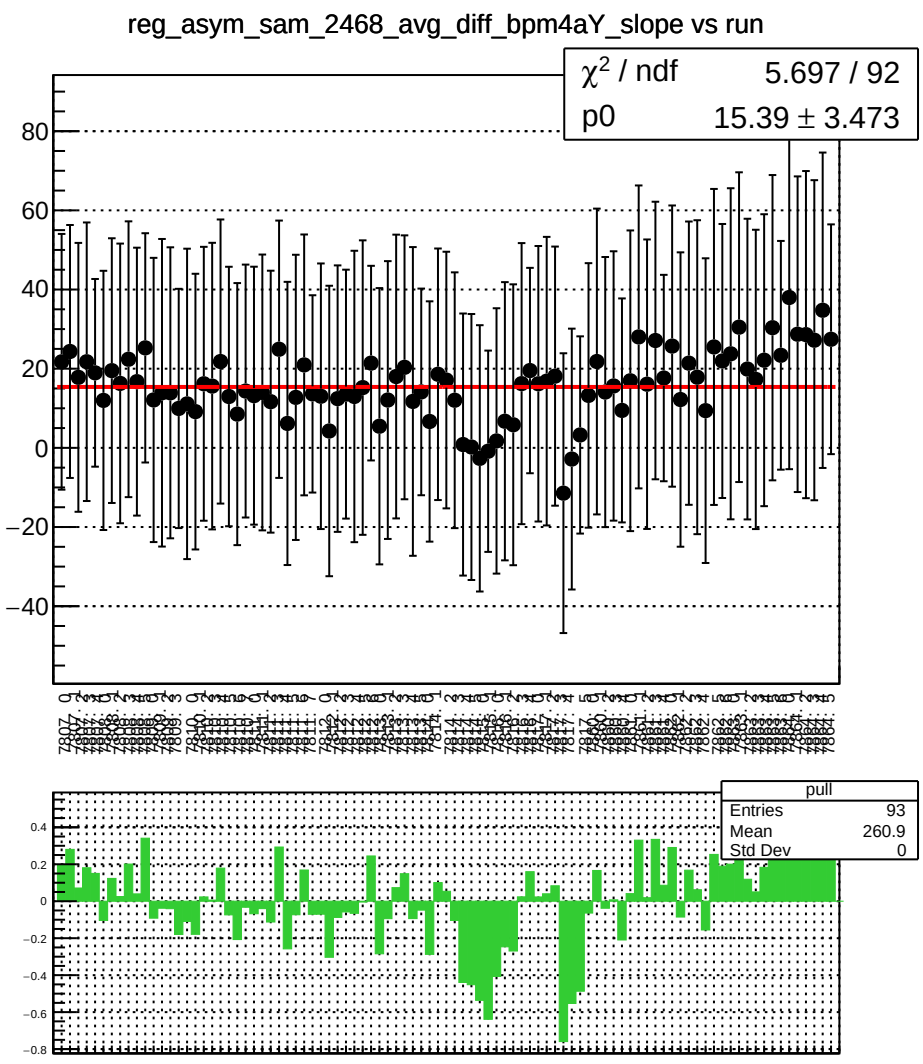

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.348 / 92
p0 9.374 ± 1.908
pull
Entries 93
Mean 196.2
Std Dev 0

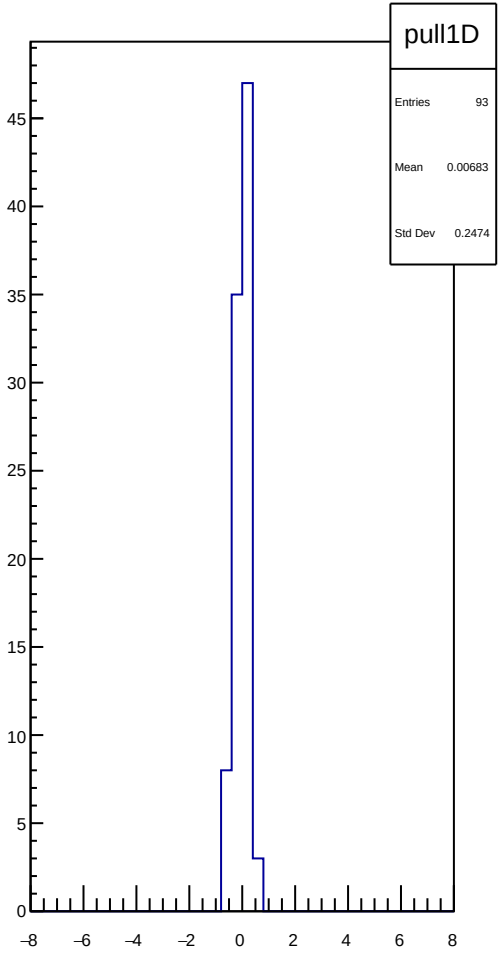

pull1D
Entries 93
Mean −0.005235
Std Dev 0.281

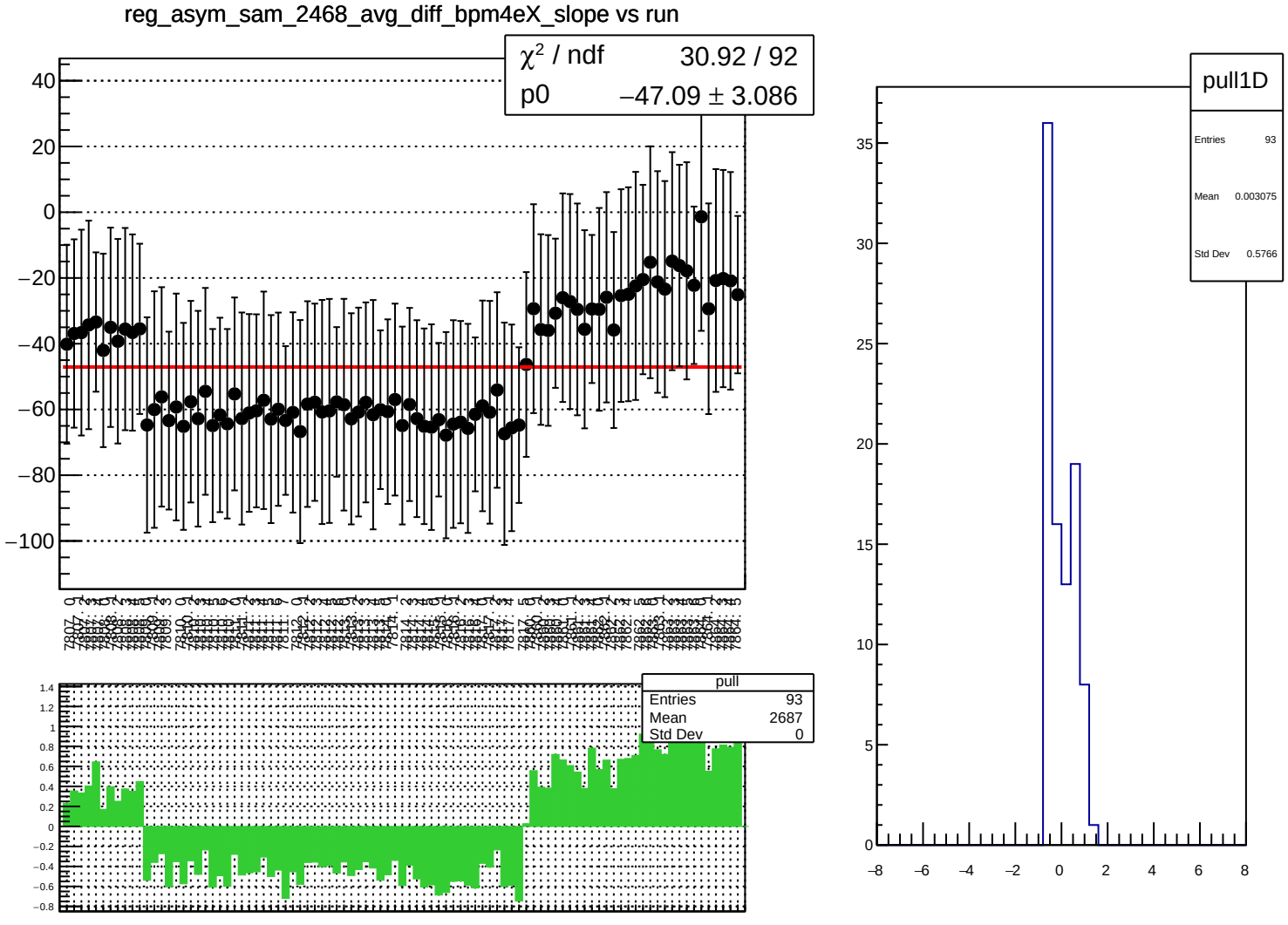

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 78.96 / 92
p0 −0.4678 ± 0.05543
pull
Entries 93
Mean 196.7
Std Dev 0

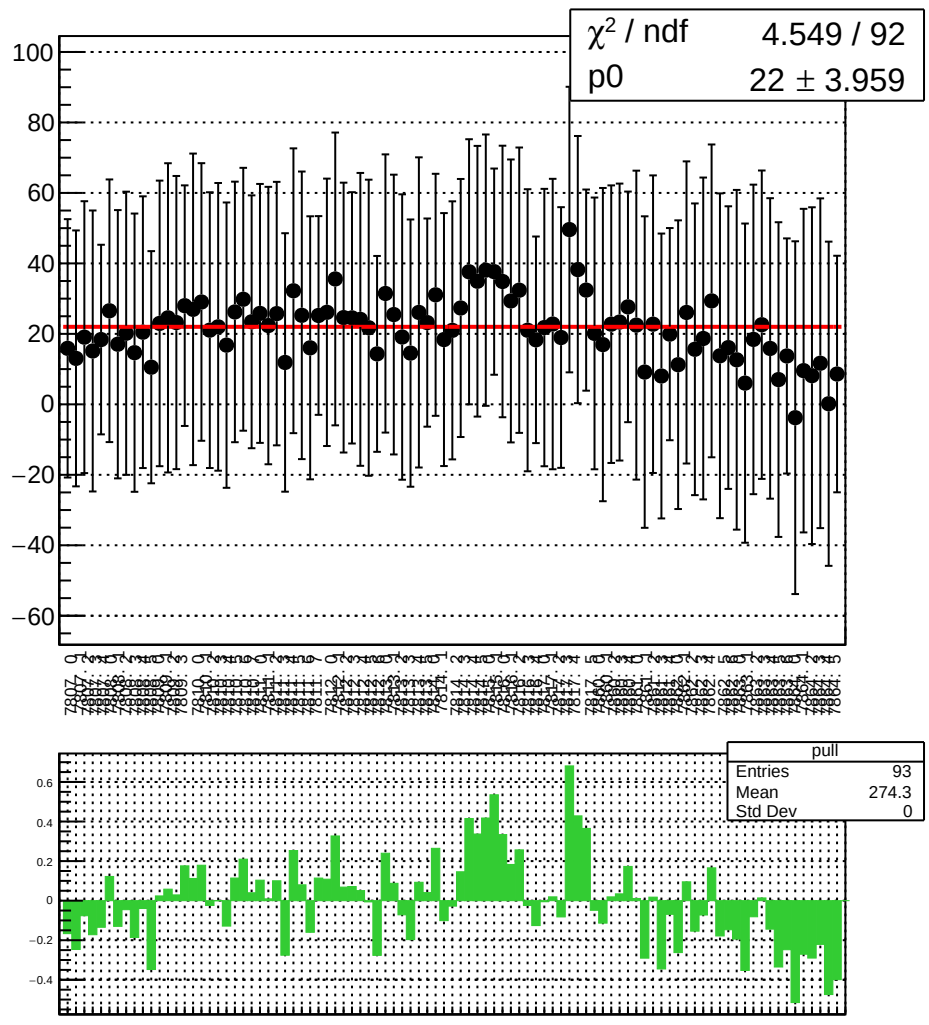

pull1D
Entries 93
Mean −0.07536
Std Dev 0.9184

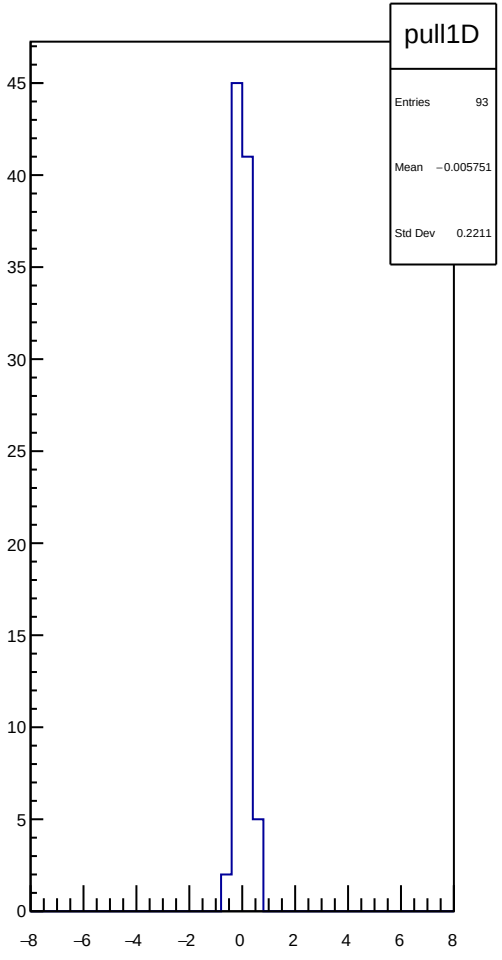

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 40.31 / 92
p0 −49.36 ± 3.415
pull
Entries 93
Mean 507
Std Dev 0
pull1D
Entries 93
Mean −0.02015
Std Dev 0.658

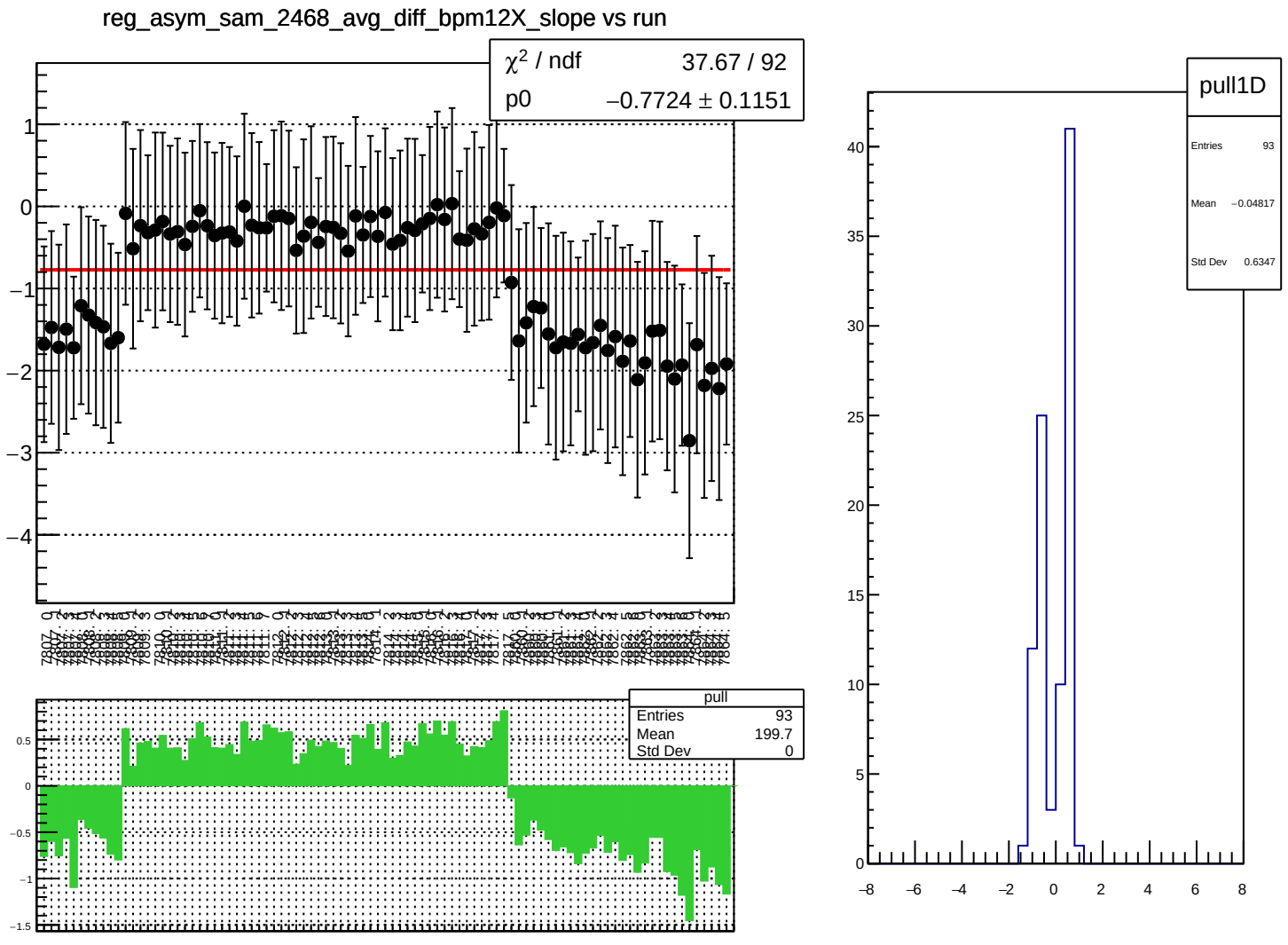

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.697 / 92
p0 15.39 ± 3.473
pull
Entries 93
Mean 260.9
Std Dev 0

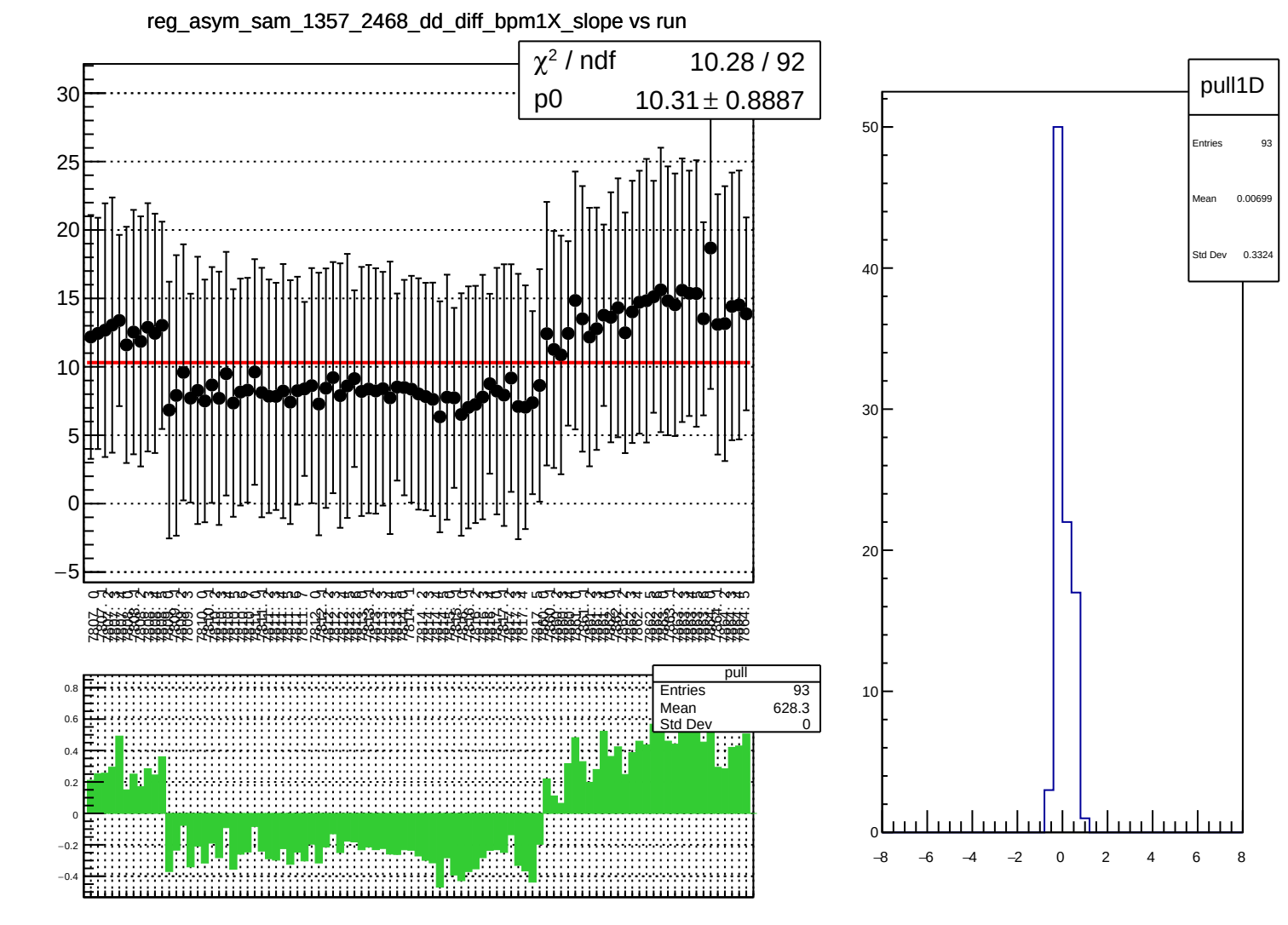

pull1D
Entries 93
Mean 0.00683
Std Dev 0.2474

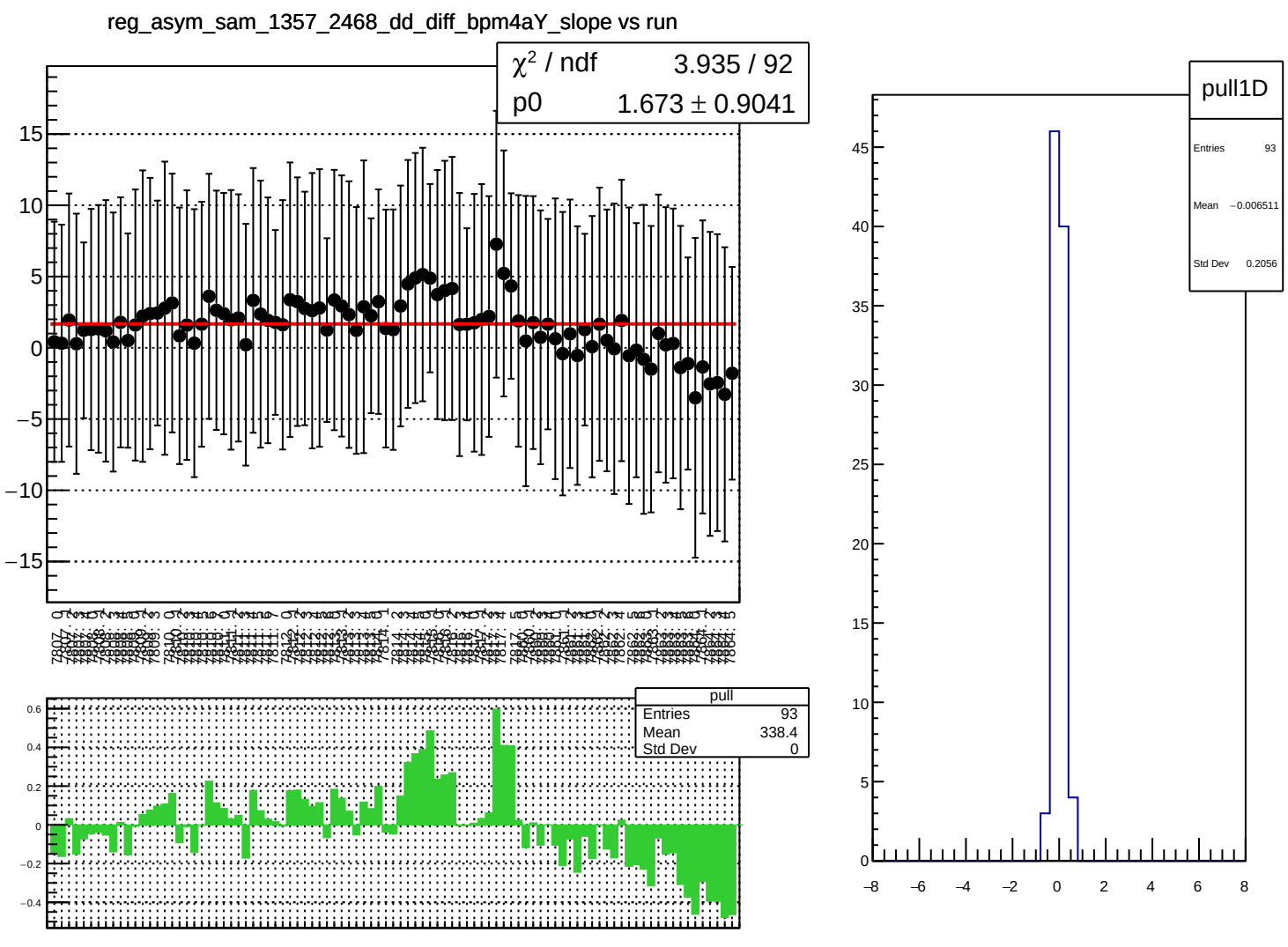

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 30.92 / 92
p0 −47.09 ± 3.086
pull
Entries 93
Mean 2687
Std Dev 0
pull1D
Entries 93
Mean 0.003075
Std Dev 0.5766

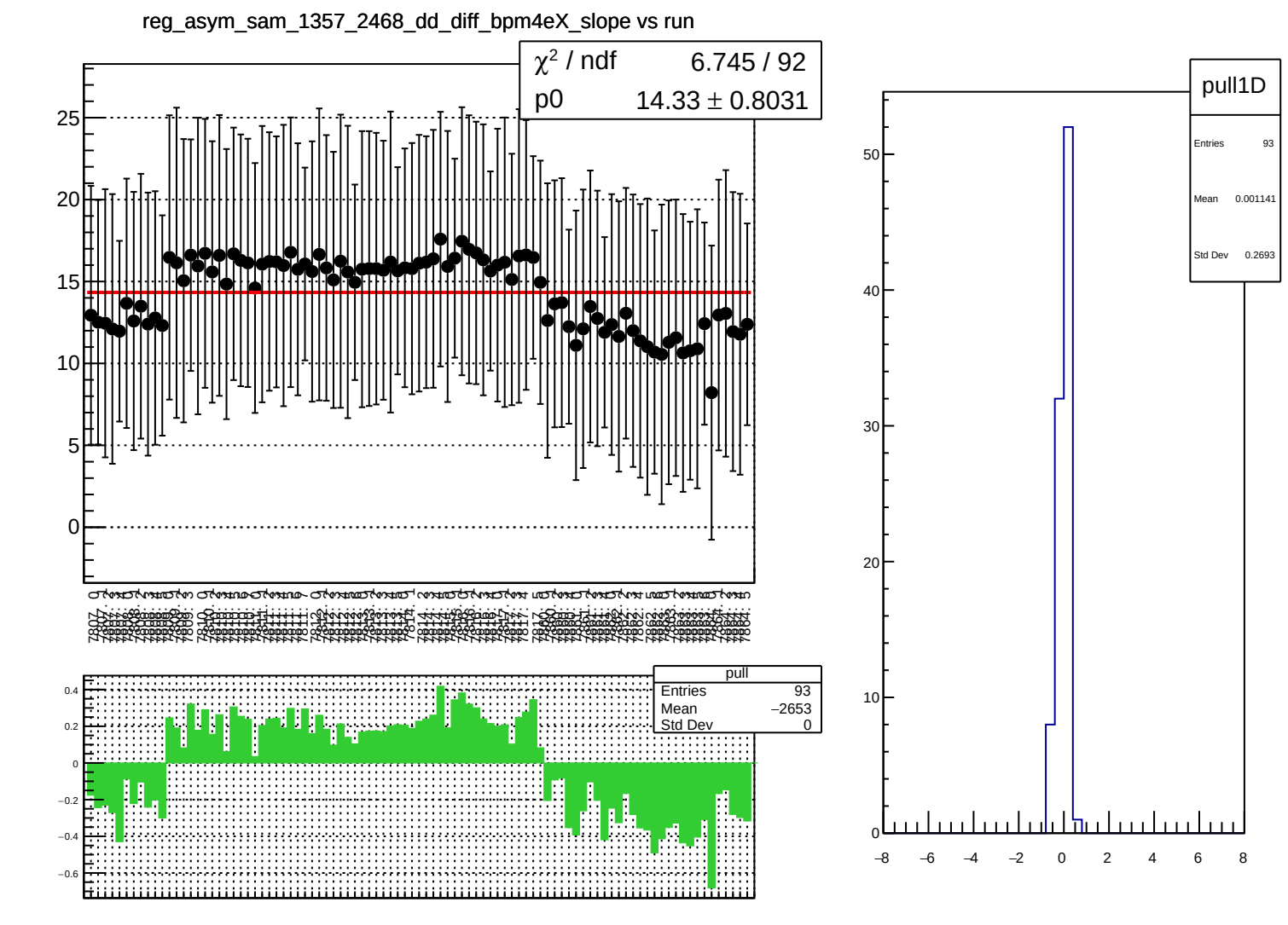

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.549 / 92
p0 22 ± 3.959
pull
Entries 93
Mean 274.3
Std Dev 0

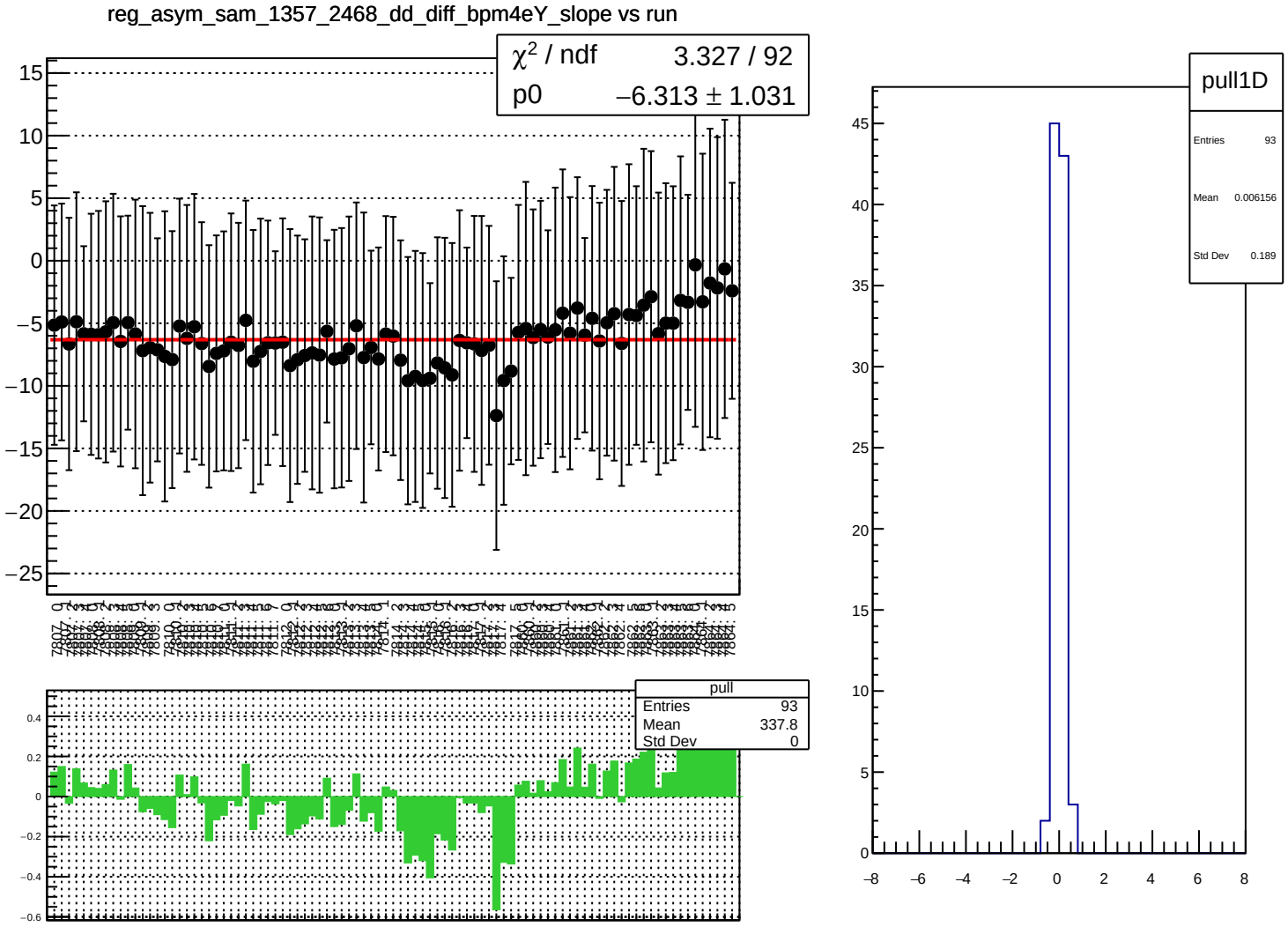

pull1D
Entries 93
Mean −0.005751
Std Dev 0.2211

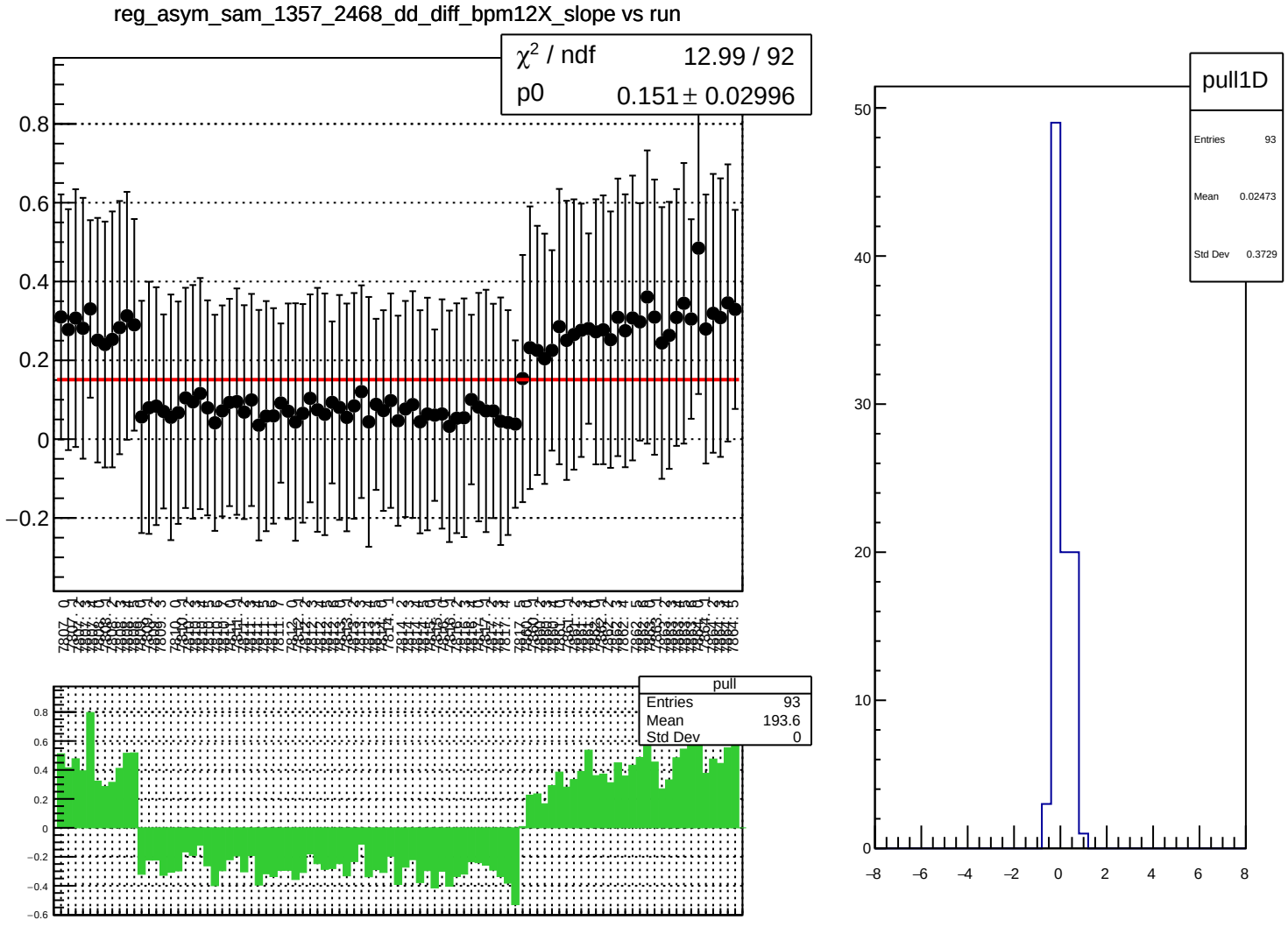

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 37.67 / 92
p0 −0.7724 ± 0.1151
pull
Entries 93
Mean 199.7
Std Dev 0
pull1D
Entries 93
Mean −0.04817
Std Dev 0.6347

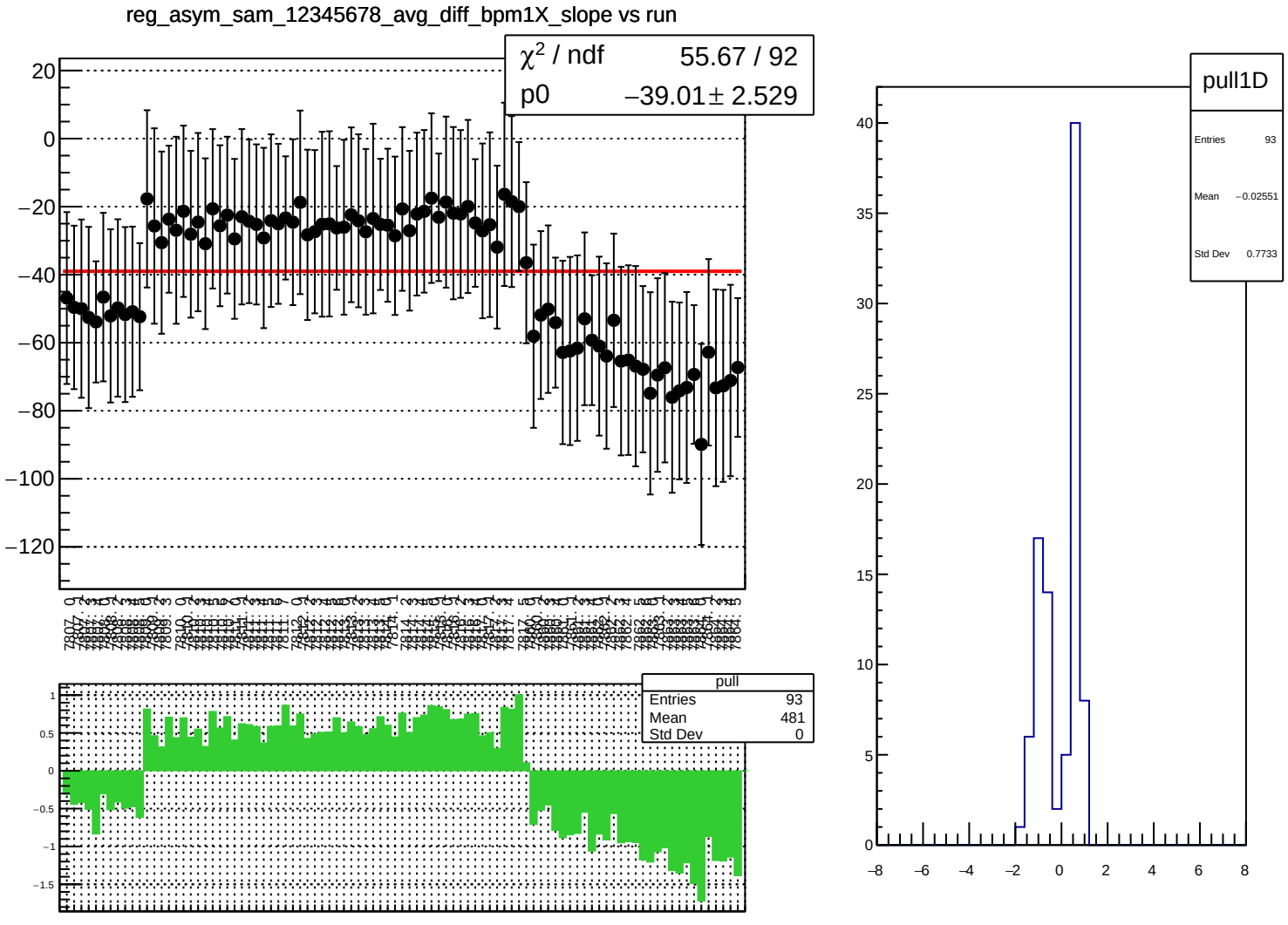

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 10.28 / 92
p0 10.31 ± 0.8887
pull
Entries 93
Mean 628.3
Std Dev 0
pull1D
Entries 93
Mean 0.00699
Std Dev 0.3324

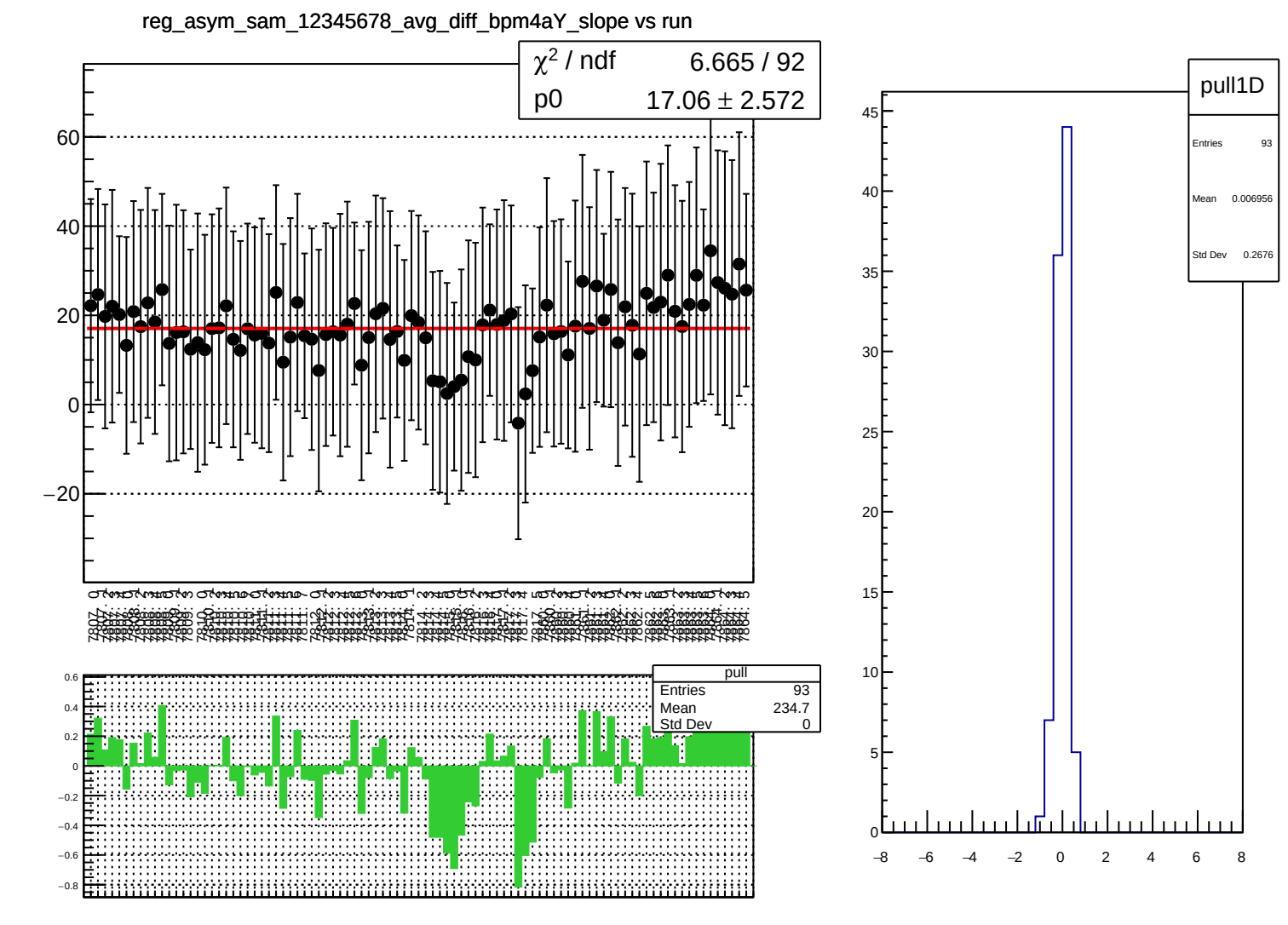

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.935 / 92
p0 1.673 ± 0.9041
pull
Entries 93
Mean 338.4
Std Dev 0
pull1D
Entries 93
Mean −0.006511
Std Dev 0.2056

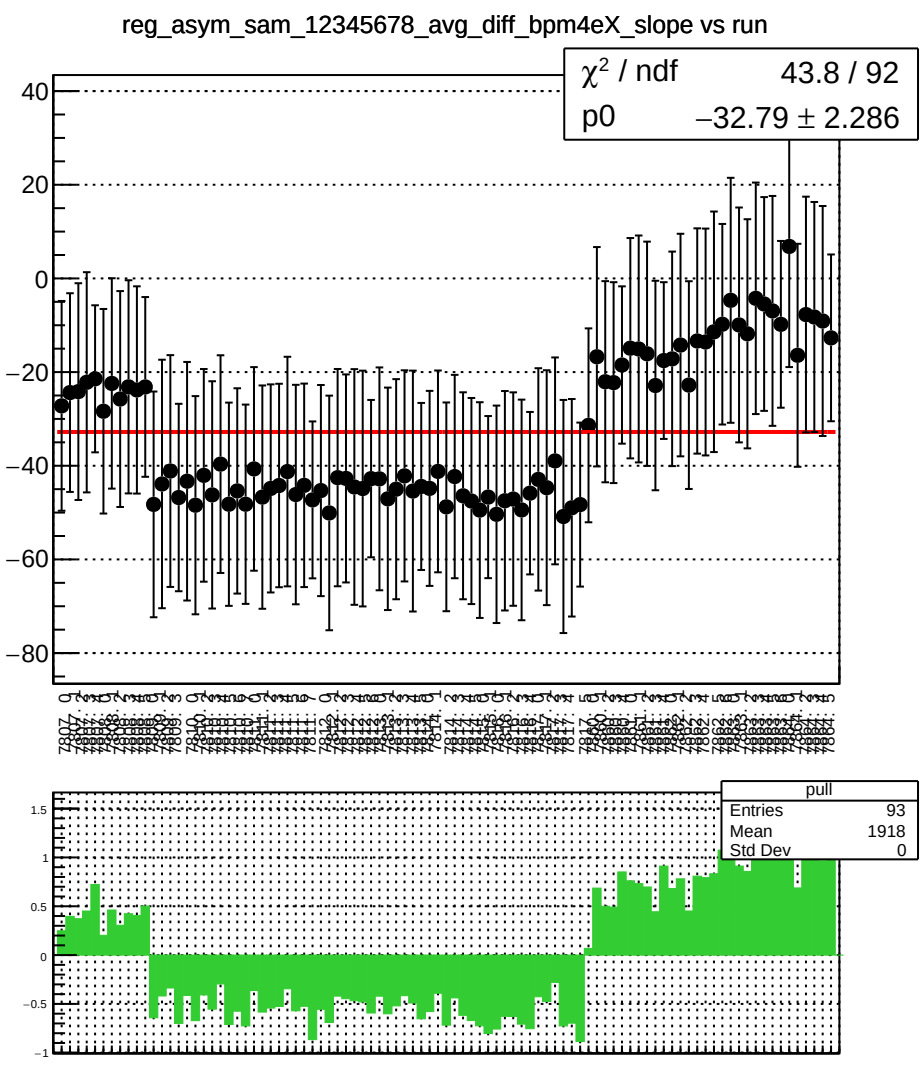

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.745 / 92
p0 14.33 ± 0.8031
pull
Entries 93
Mean −2653
Std Dev 0
pull1D
Entries 93
Mean 0.001141
Std Dev 0.2693

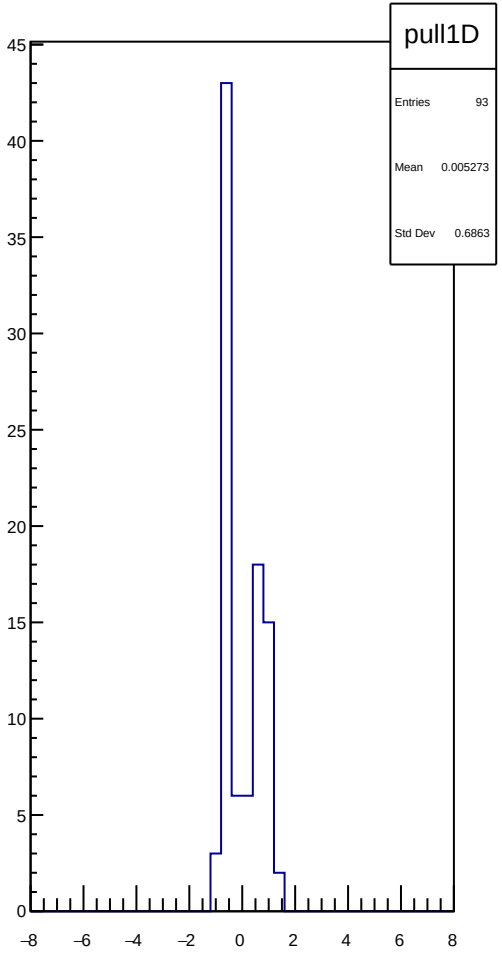

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.327 / 92
p0 −6.313 ± 1.031
pull
Entries 93
Mean 337.8
Std Dev 0
pull1D
Entries 93
Mean 0.006156
Std Dev 0.189

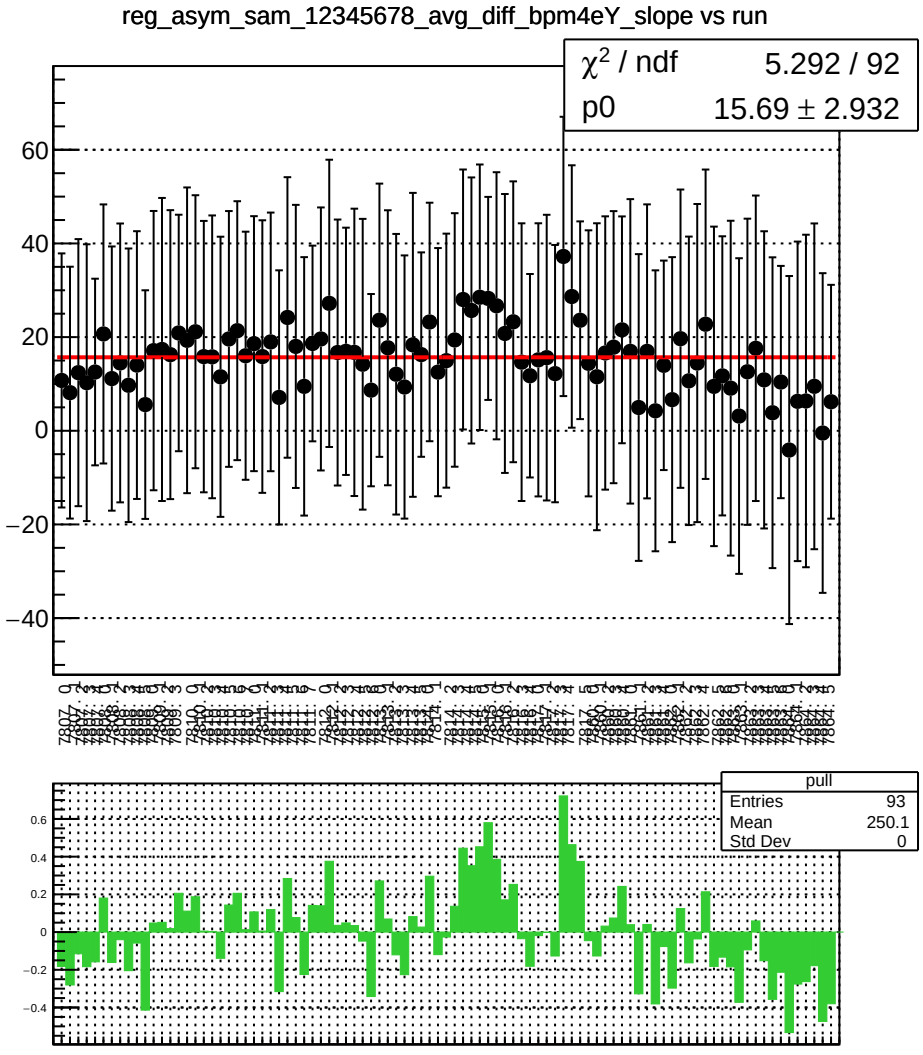

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 12.99 / 92
p0 0.151 ± 0.02996
pull
Entries 93
Mean 193.6
Std Dev 0
pull1D
Entries 93
Mean 0.02473
Std Dev 0.3729

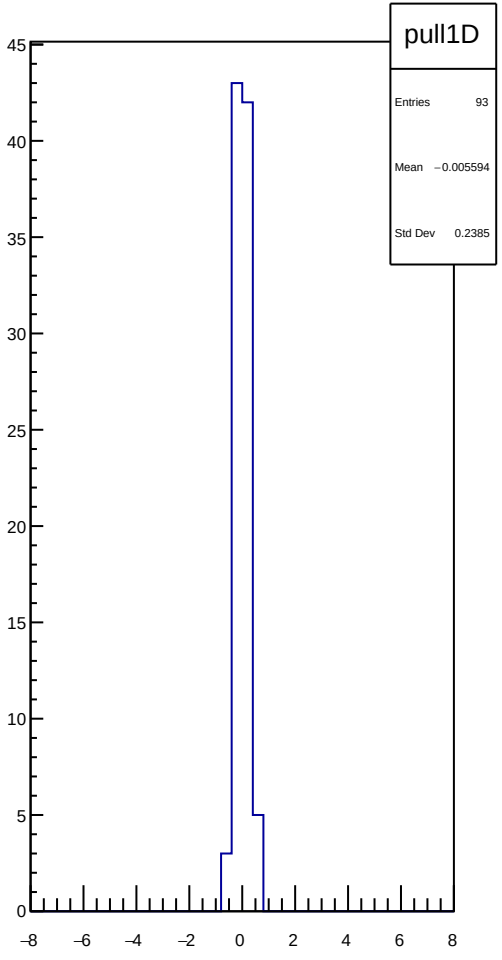

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 55.67 / 92
p0 −39.01 ± 2.529
pull
Entries 93
Mean 481
Std Dev 0
pull1D
Entries 93
Mean −0.02551
Std Dev 0.7733

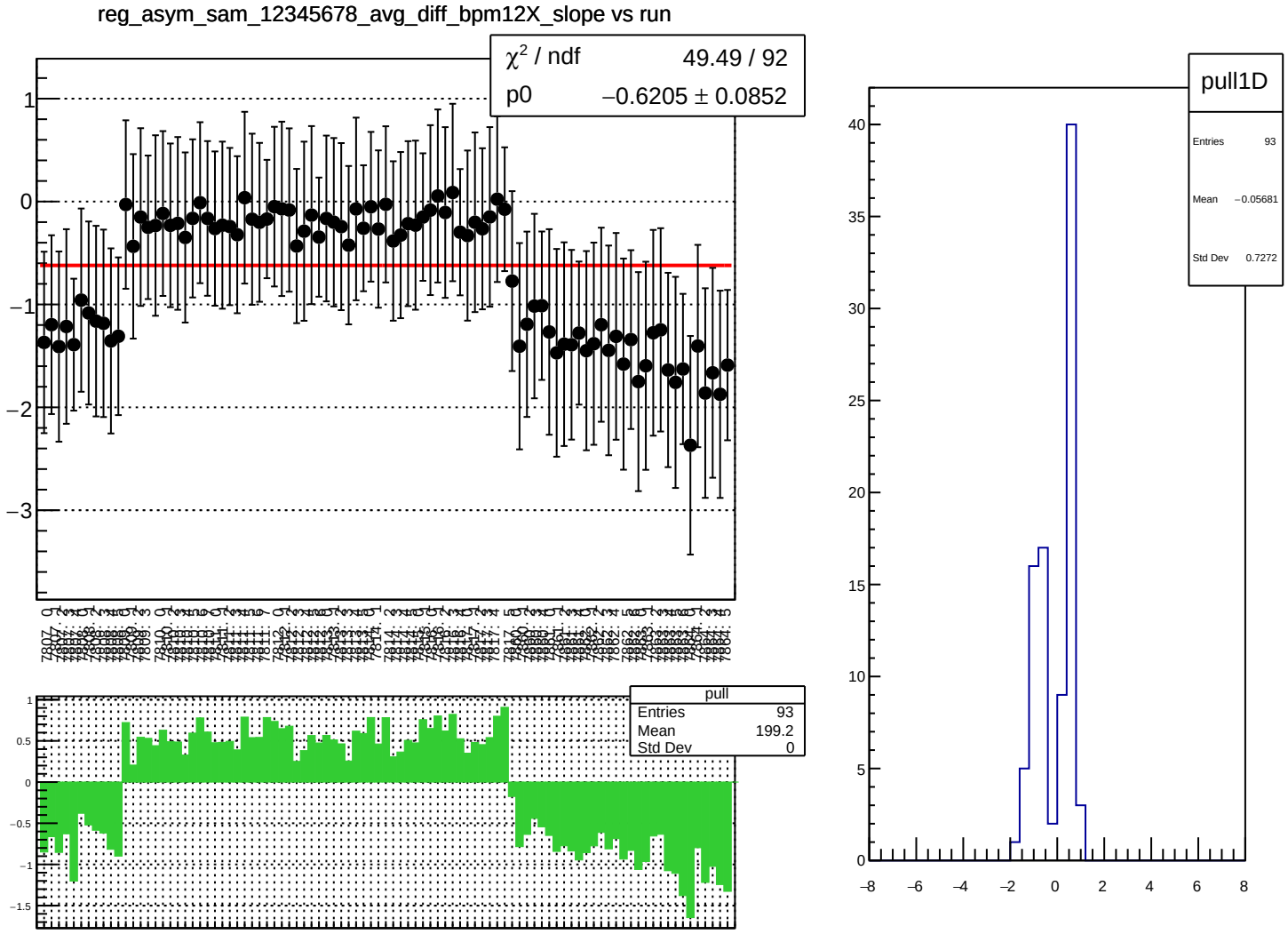

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.665 / 92
p0 17.06 ± 2.572
pull
Entries 93
Mean 234.7
Std Dev 0
pull1D
Entries 93
Mean 0.006956
Std Dev 0.2676

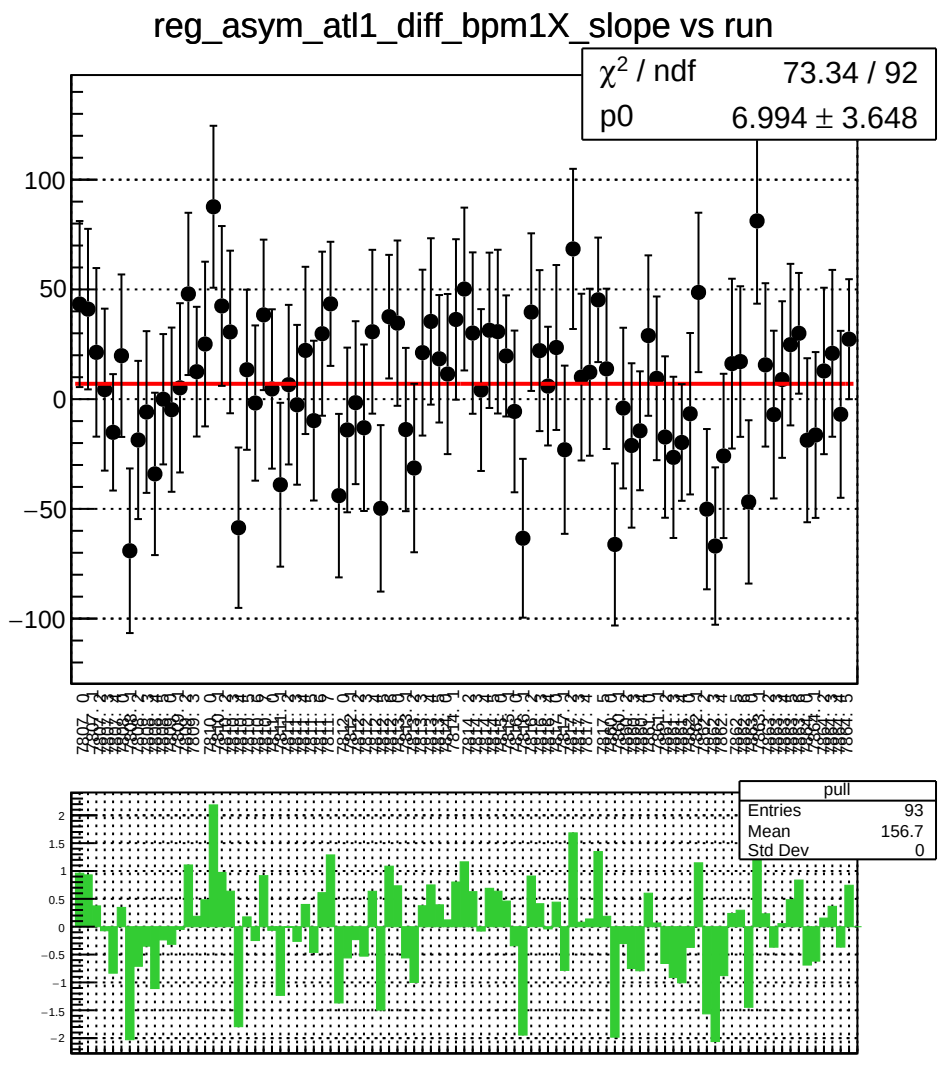

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 43.8 / 92
p0 −32.79 ± 2.286
pull
Entries 93
Mean 1918
Std Dev 0

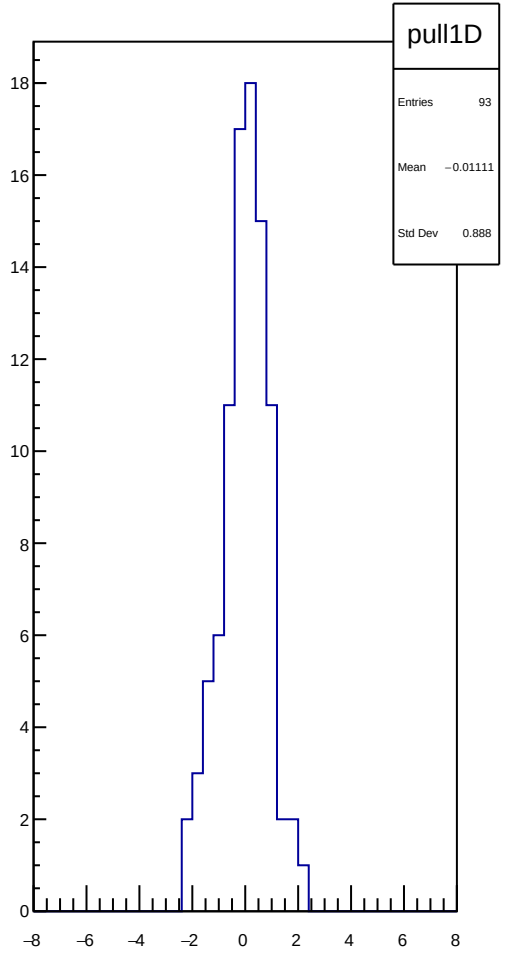

pull1D
Entries 93
Mean 0.005273
Std Dev 0.6863

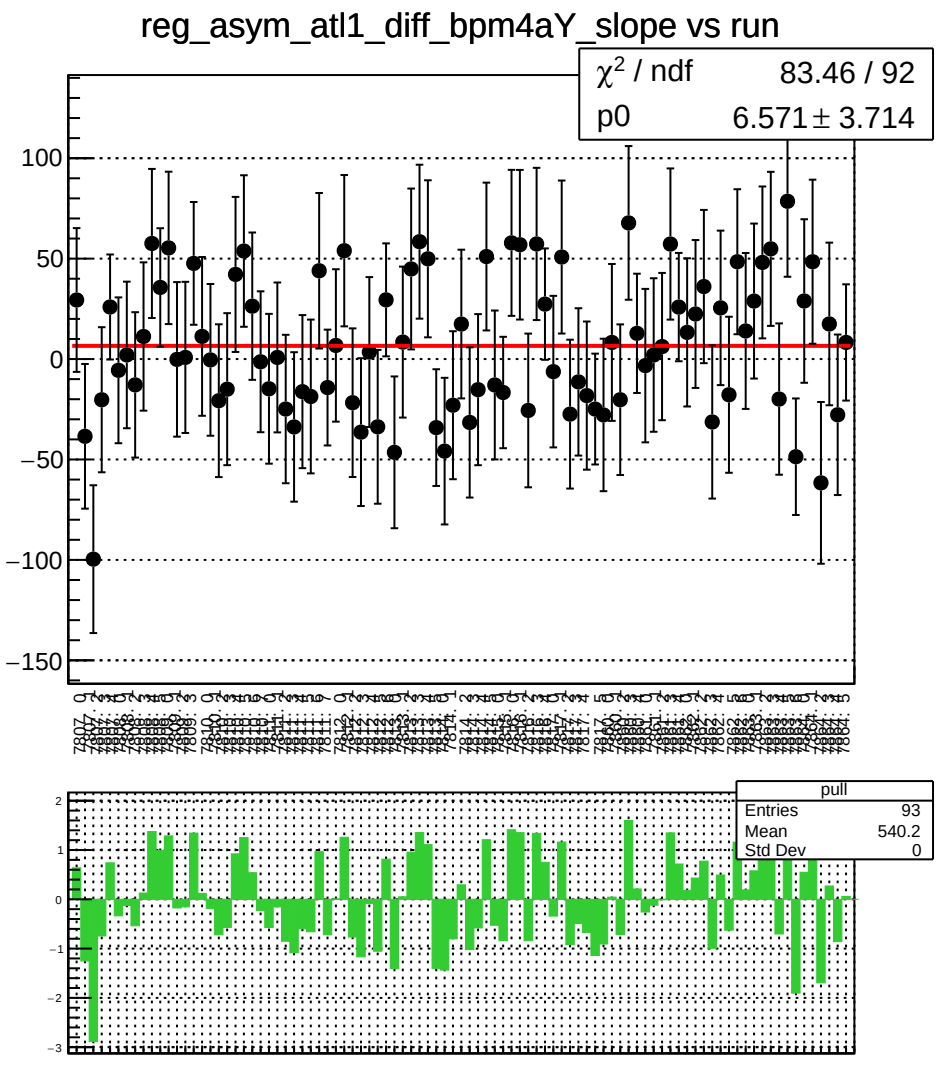

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.292 / 92
p0 15.69 ± 2.932
pull
Entries 93
Mean 250.1
Std Dev 0

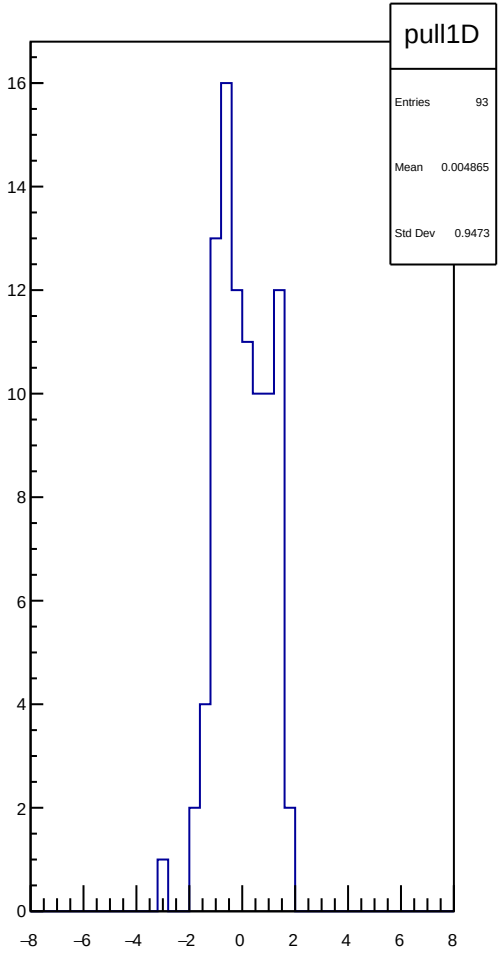

pull1D
Entries 93
Mean −0.005594
Std Dev 0.2385

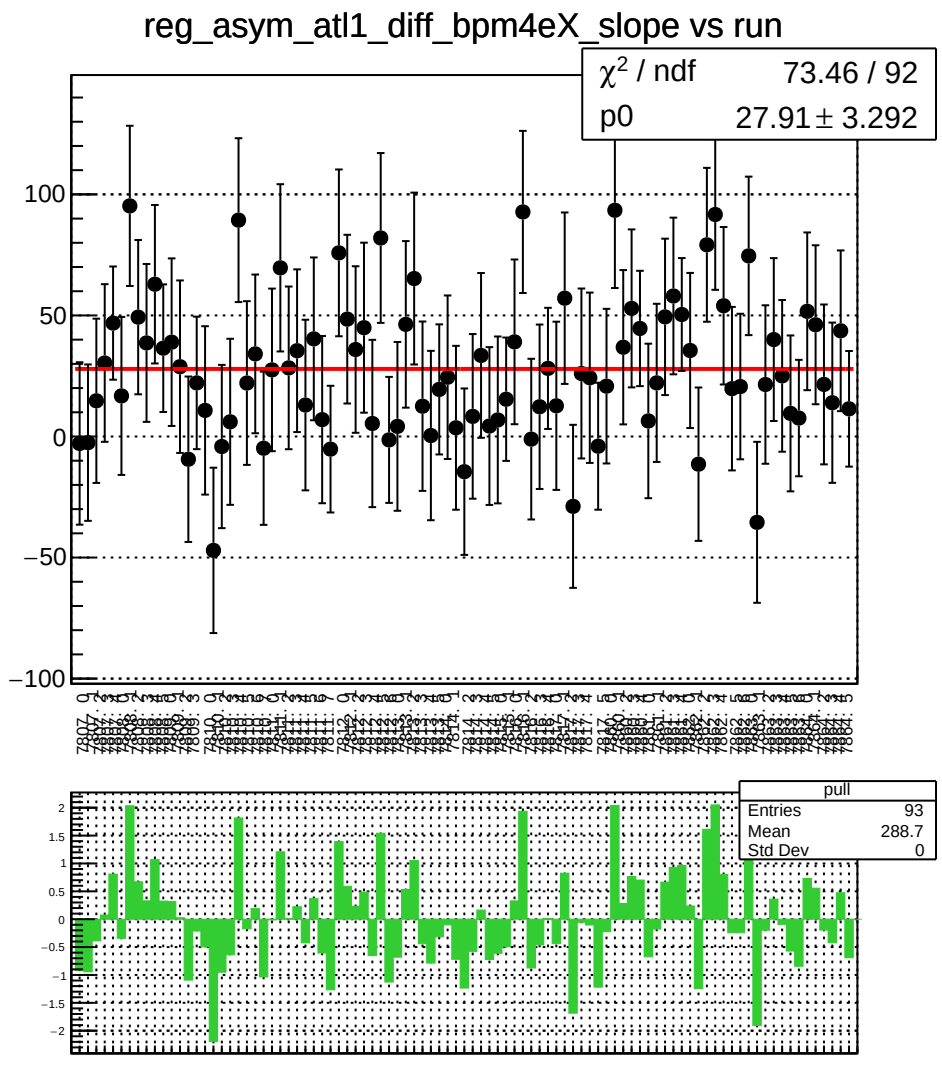

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 49.49 / 92
p0 −0.6205 ± 0.0852
pull
Entries 93
Mean 199.2
Std Dev 0
pull1D
Entries 93
Mean −0.05681
Std Dev 0.7272

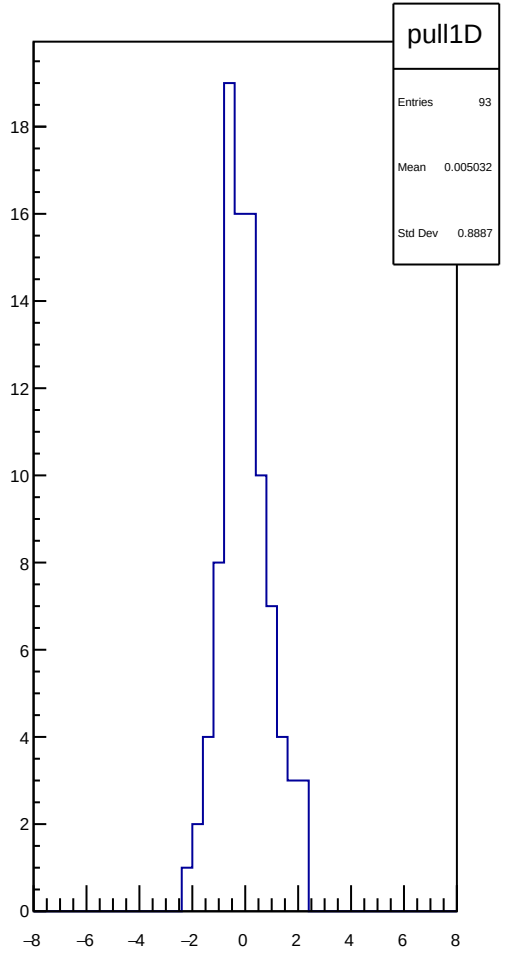

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 73.34 / 92
p0 6.994 ± 3.648
100
50
0
−50
−100
pull
Entries 93
Mean 156.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

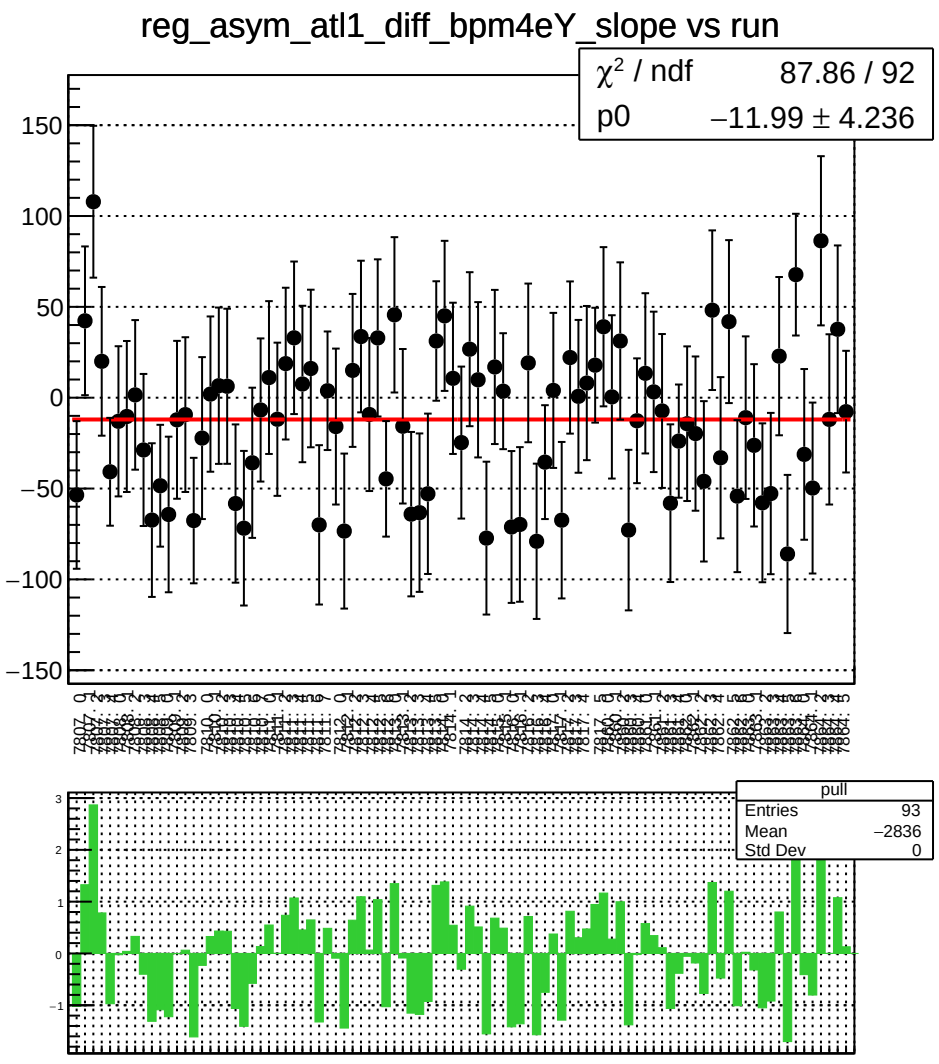

pull1D
Entries 93
Mean −0.01111
Std Dev 0.888
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

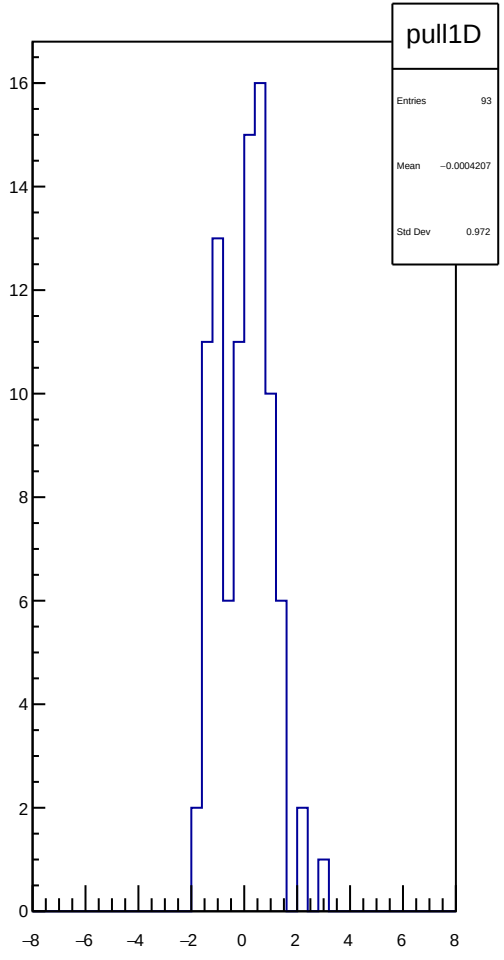

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 83.46 / 92
p0 6.571 ± 3.714
pull
Entries 93
Mean 540.2
Std Dev 0

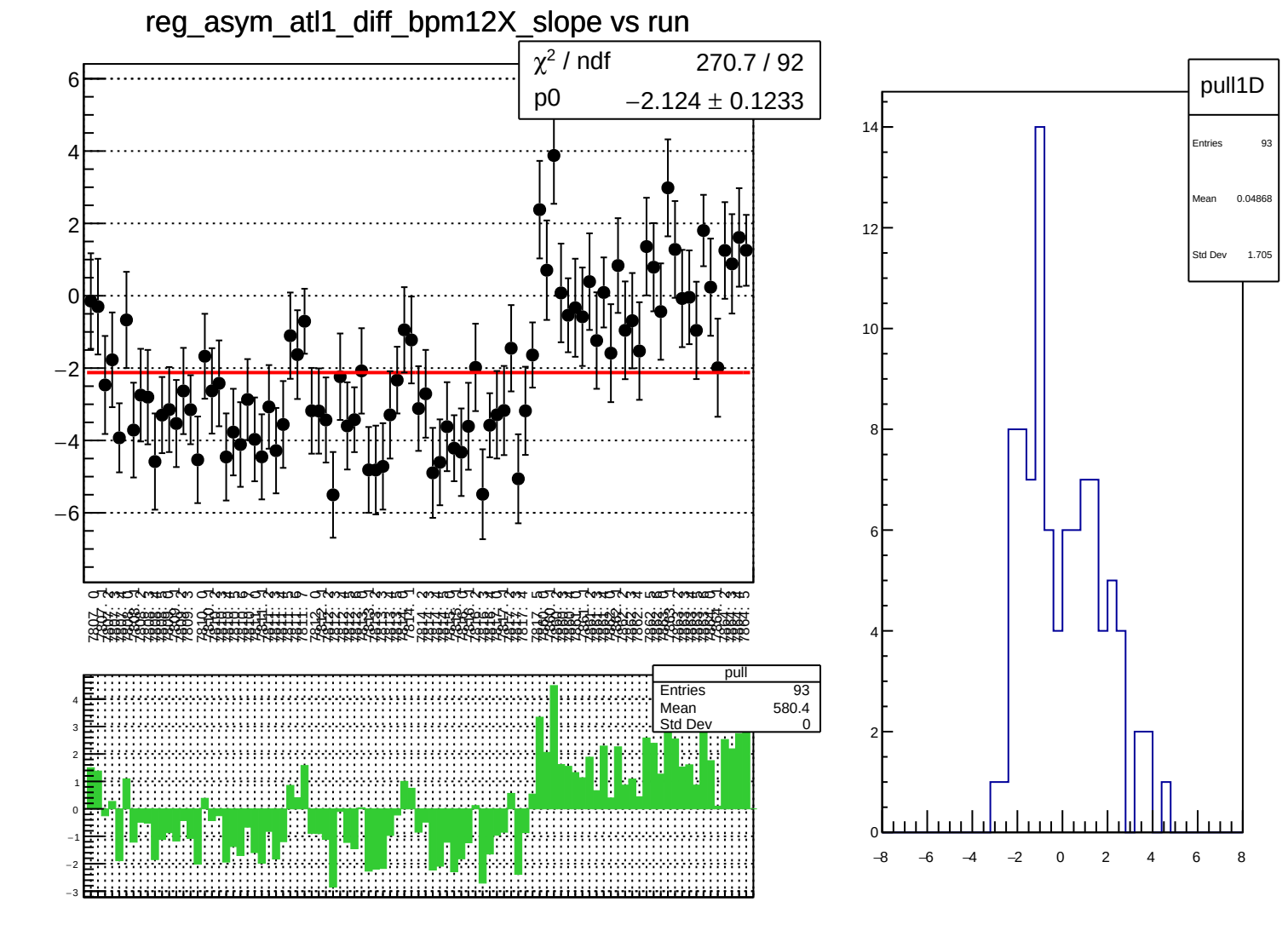

pull1D
Entries 93
Mean 0.004865
Std Dev 0.9473

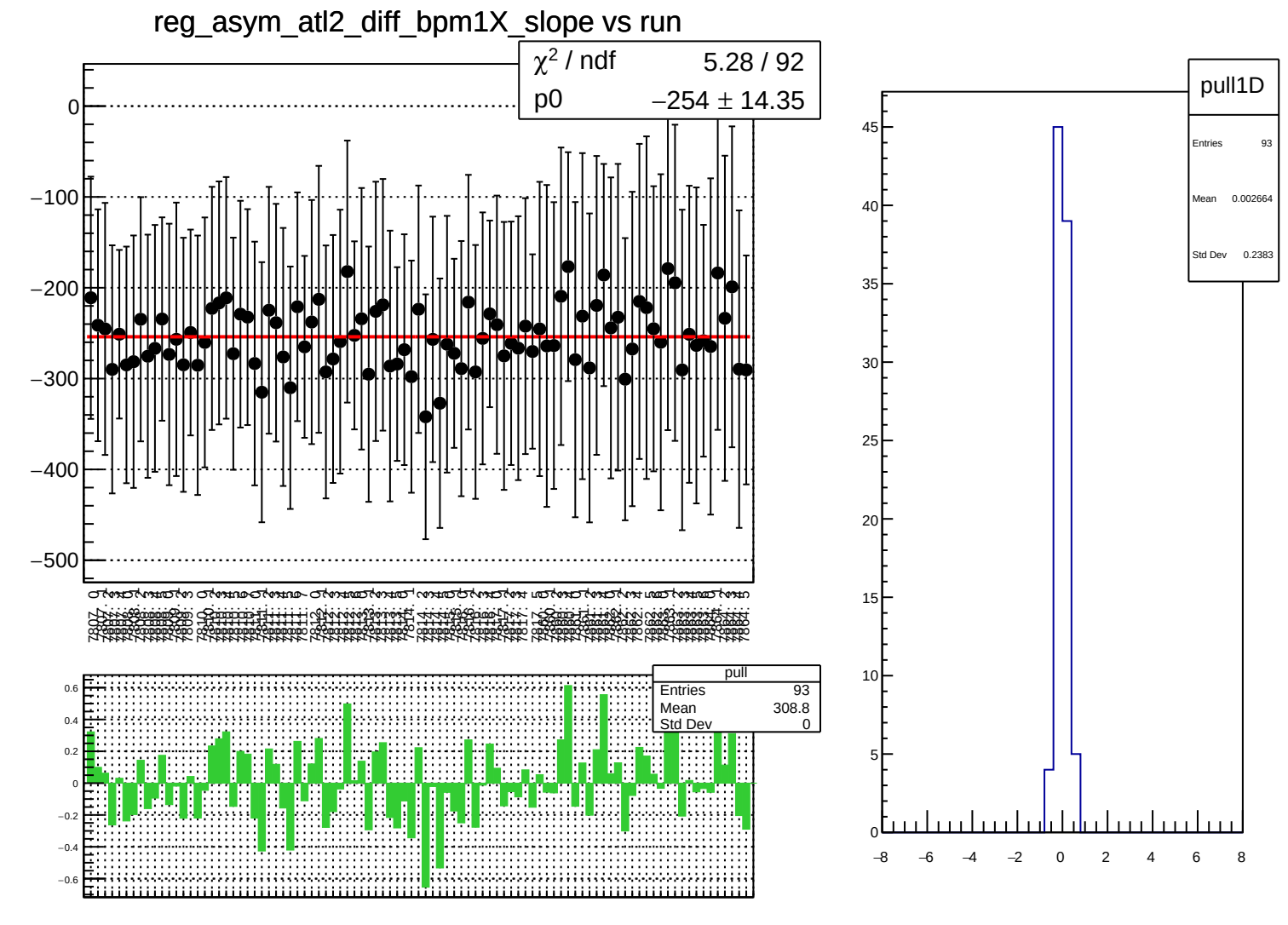

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 73.46 / 92
p0 27.91 ± 3.292
100
50
0
−50
−100
pull
Entries 93
Mean 288.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

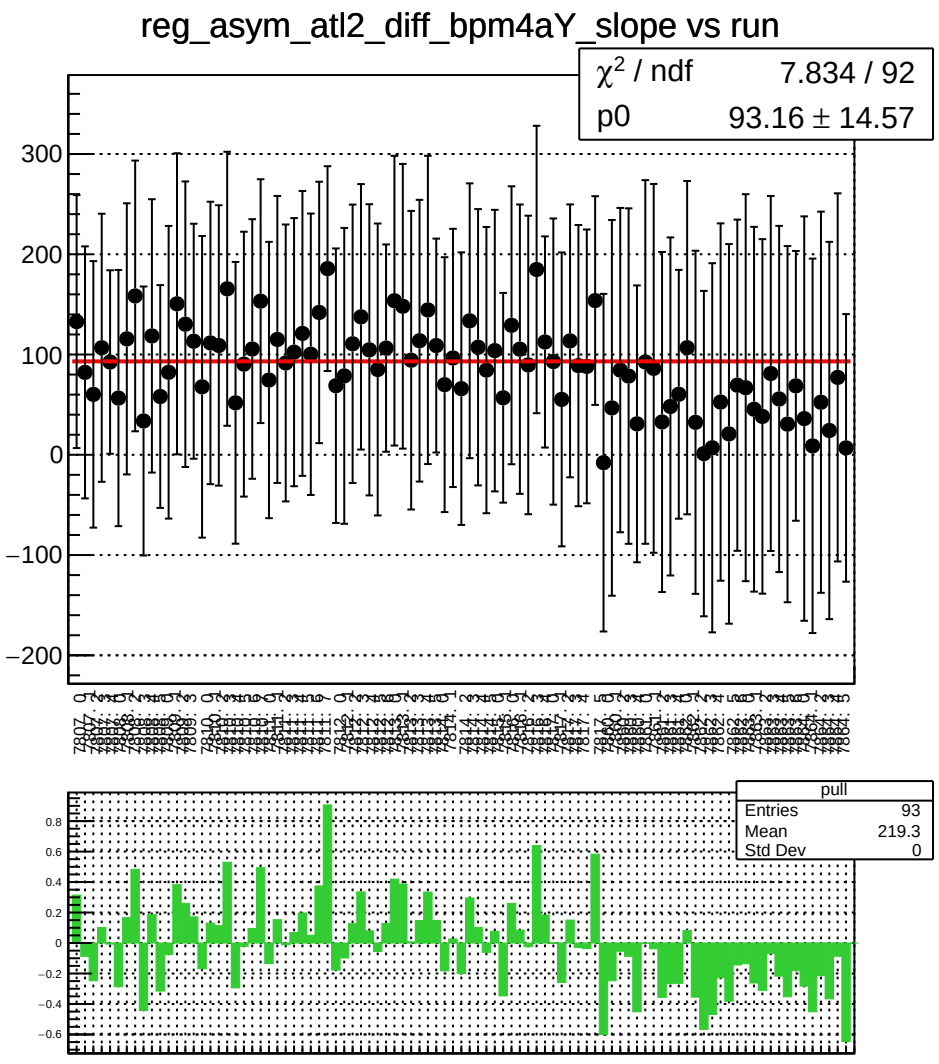

pull1D
Entries 93
Mean 0.005032
Std Dev 0.8887
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

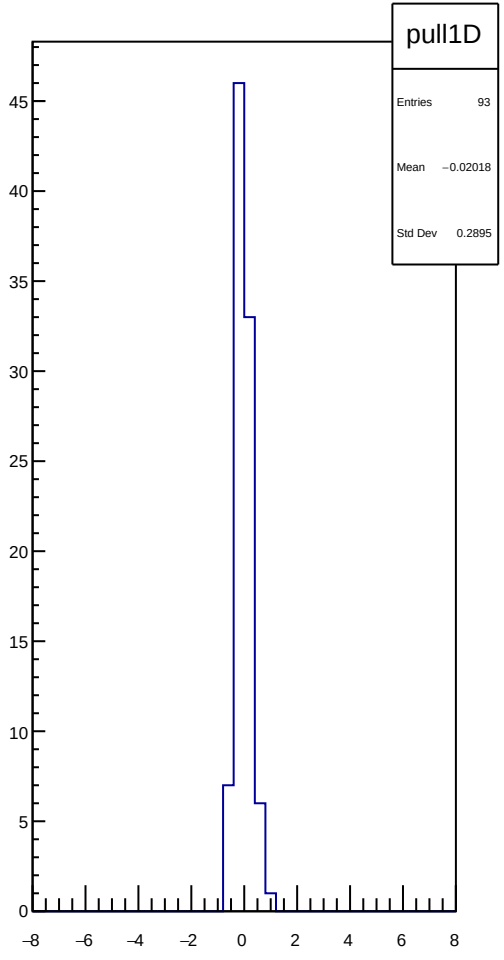

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 87.86 / 92
p0 −11.99 ± 4.236
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean −2836
Std Dev 0
3
2
1
0
−1

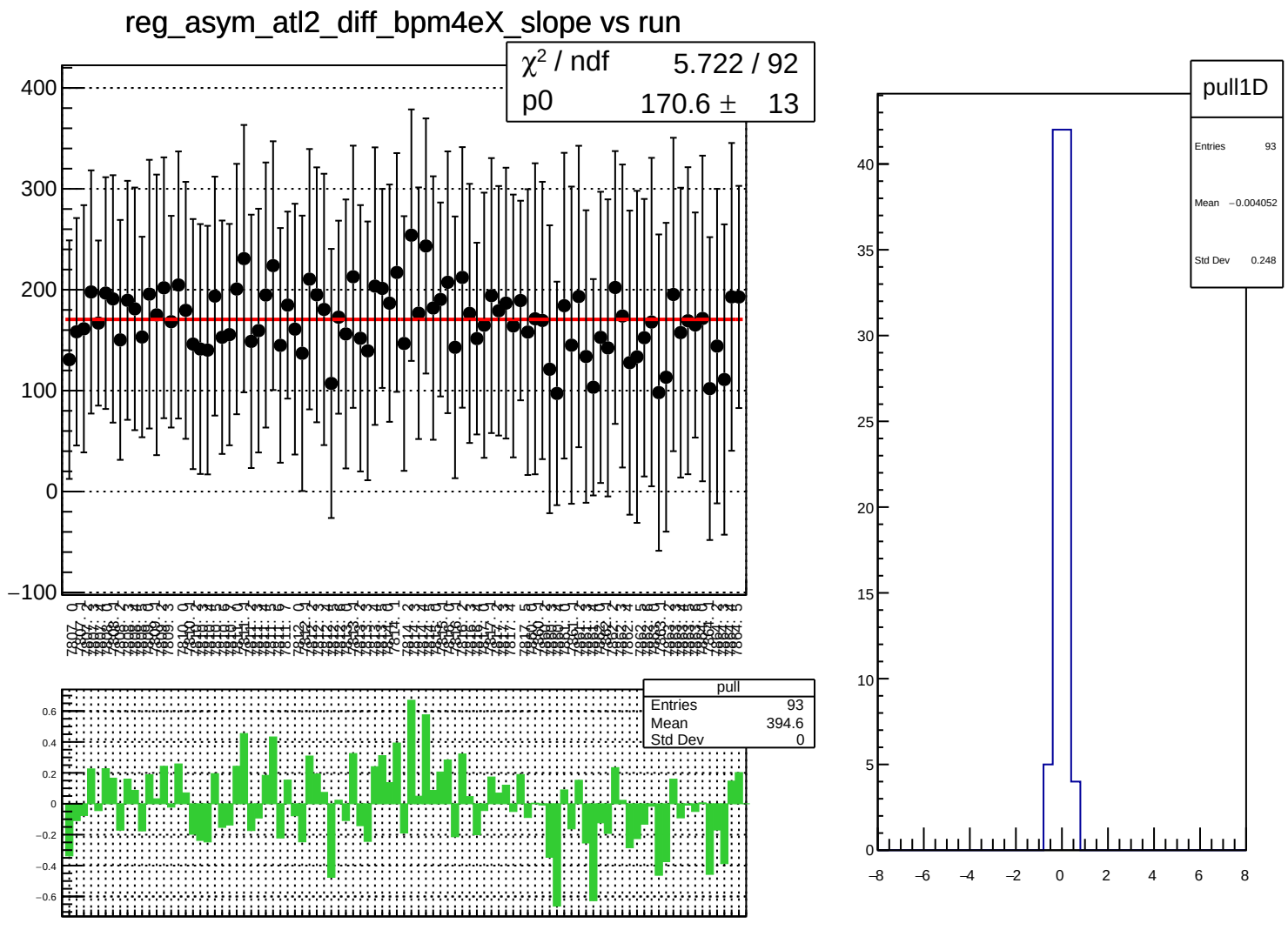

pull1D
Entries 93
Mean −0.0004207
Std Dev 0.972
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

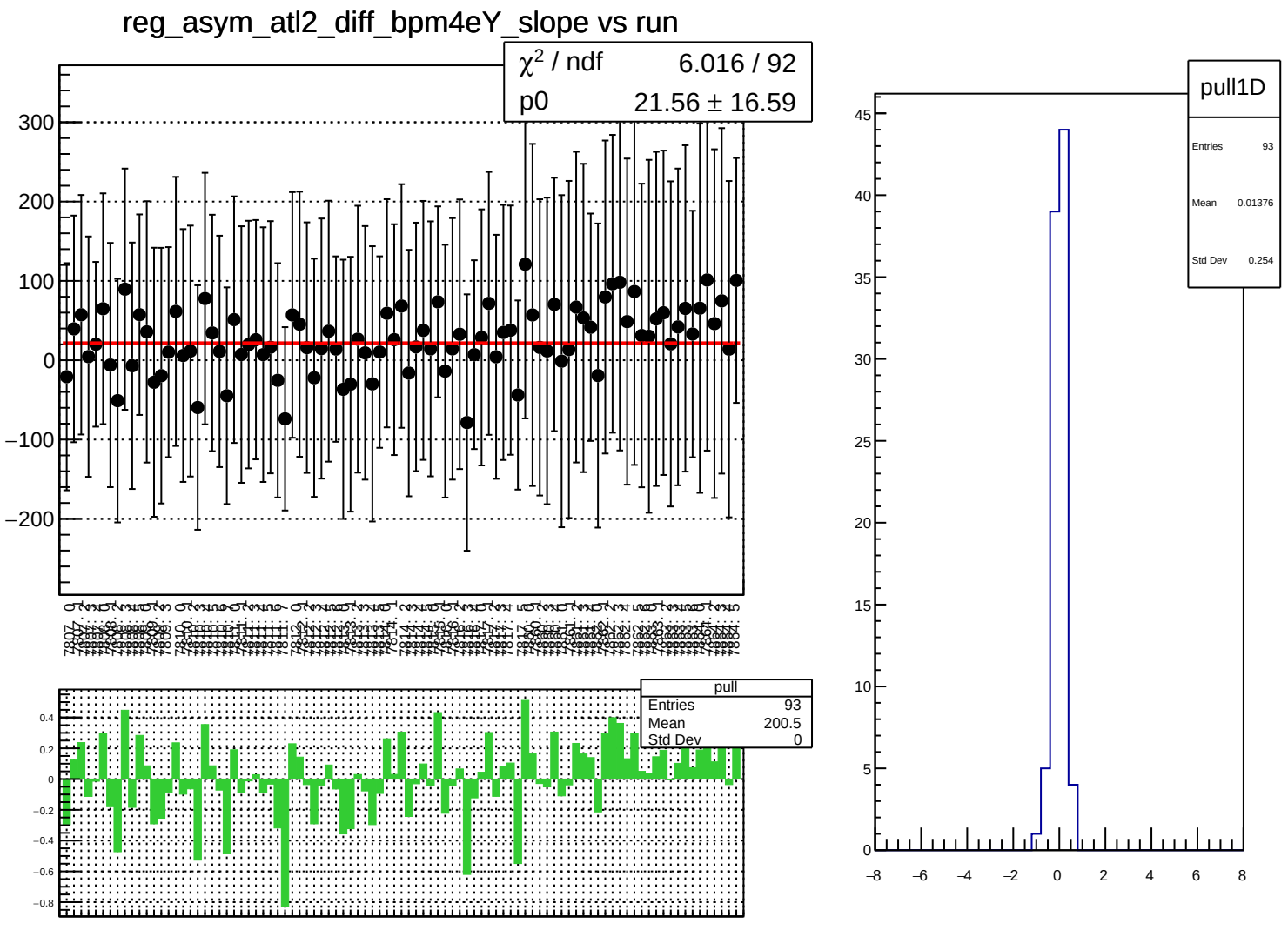

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 270.7 / 92
p0 −2.124 ± 0.1233
pull
Entries 93
Mean 580.4
Std Dev 0
pull1D
Entries 93
Mean 0.04868
Std Dev 1.705

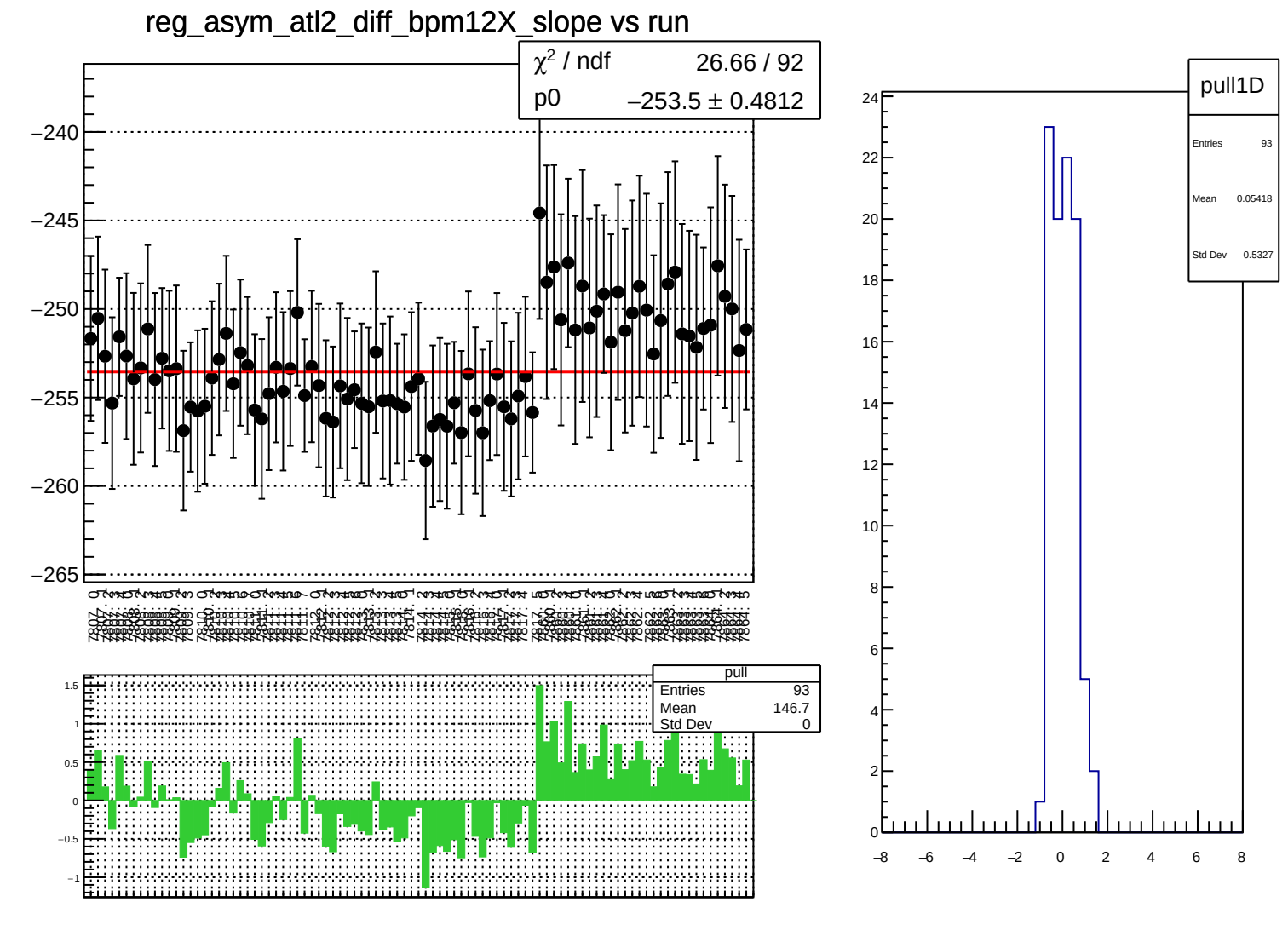

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 5.28 / 92
p0 −254 ± 14.35
pull
Entries 93
Mean 308.8
Std Dev 0
pull1D
Entries 93
Mean 0.002664
Std Dev 0.2383

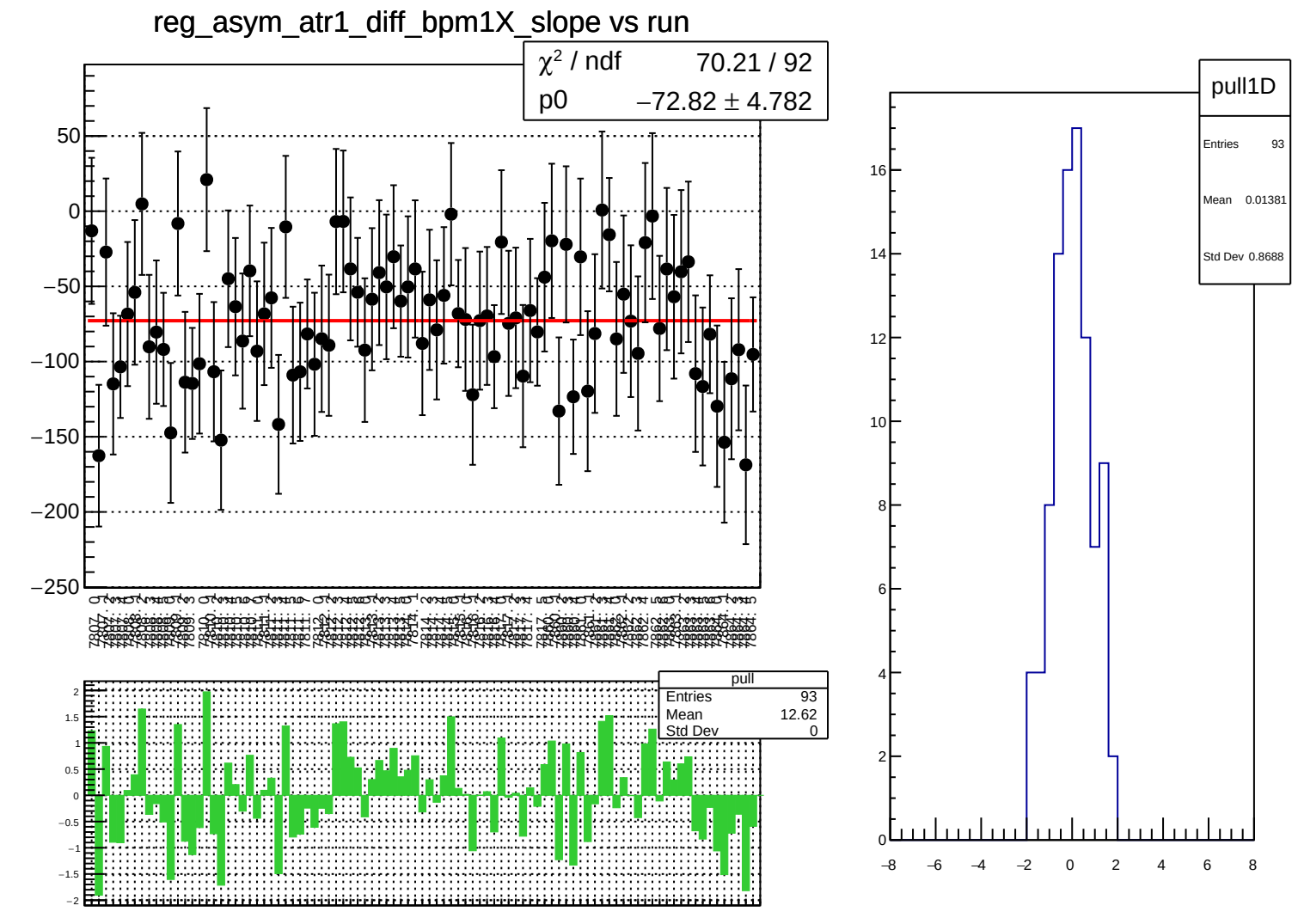

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 7.834 / 92
p0 93.16 ± 14.57
300
200
100
0
−100
−200
pull
Entries 93
Mean 219.3
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

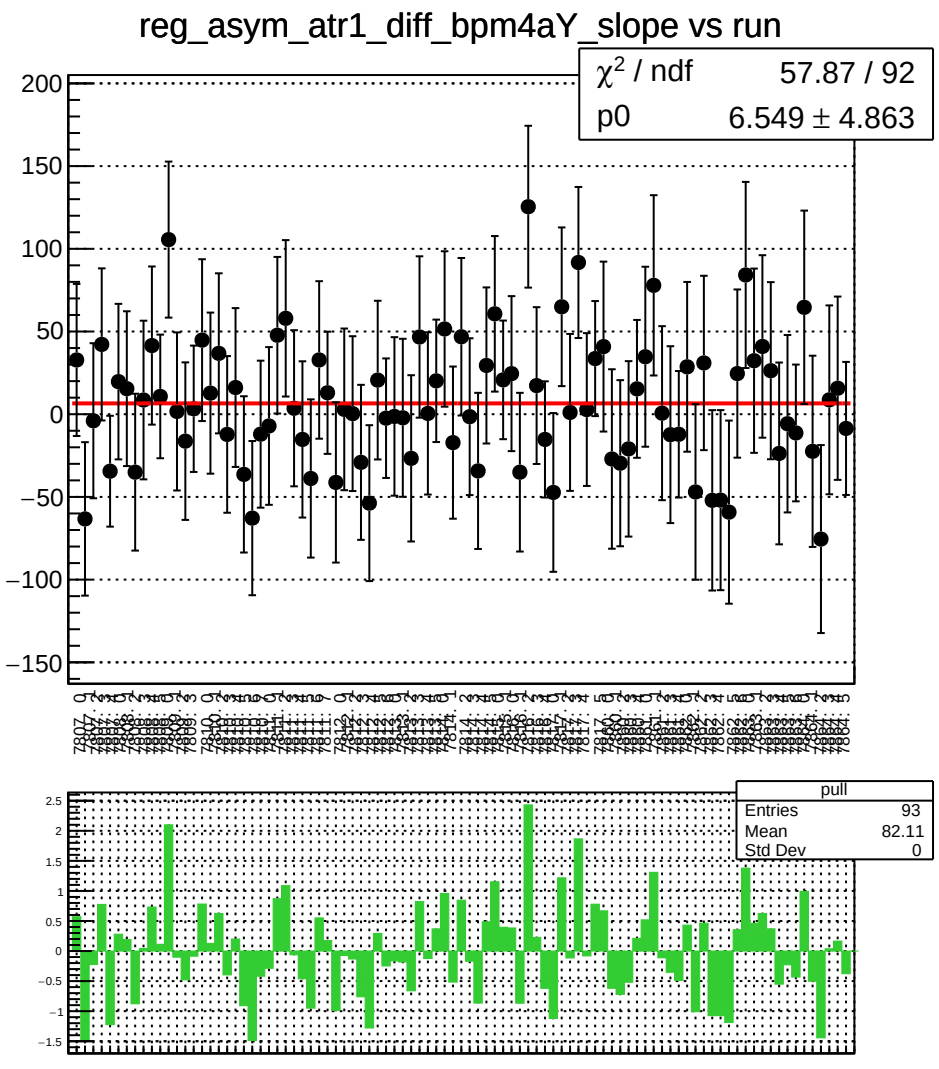

pull1D
Entries 93
Mean −0.02018
Std Dev 0.2895
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

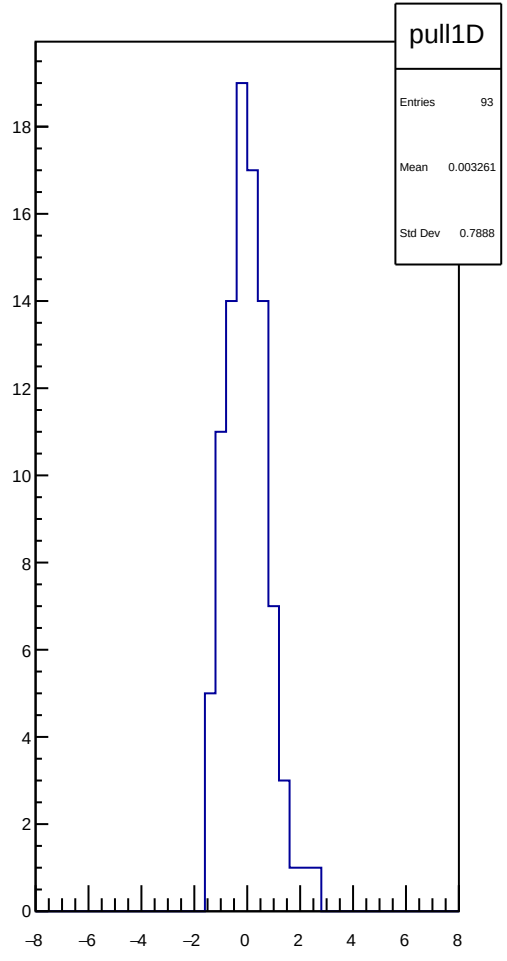

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 5.722 / 92
p0 170.6 ± 13
pull
Entries 93
Mean 394.6
Std Dev 0
pull1D
Entries 93
Mean −0.004052
Std Dev 0.248

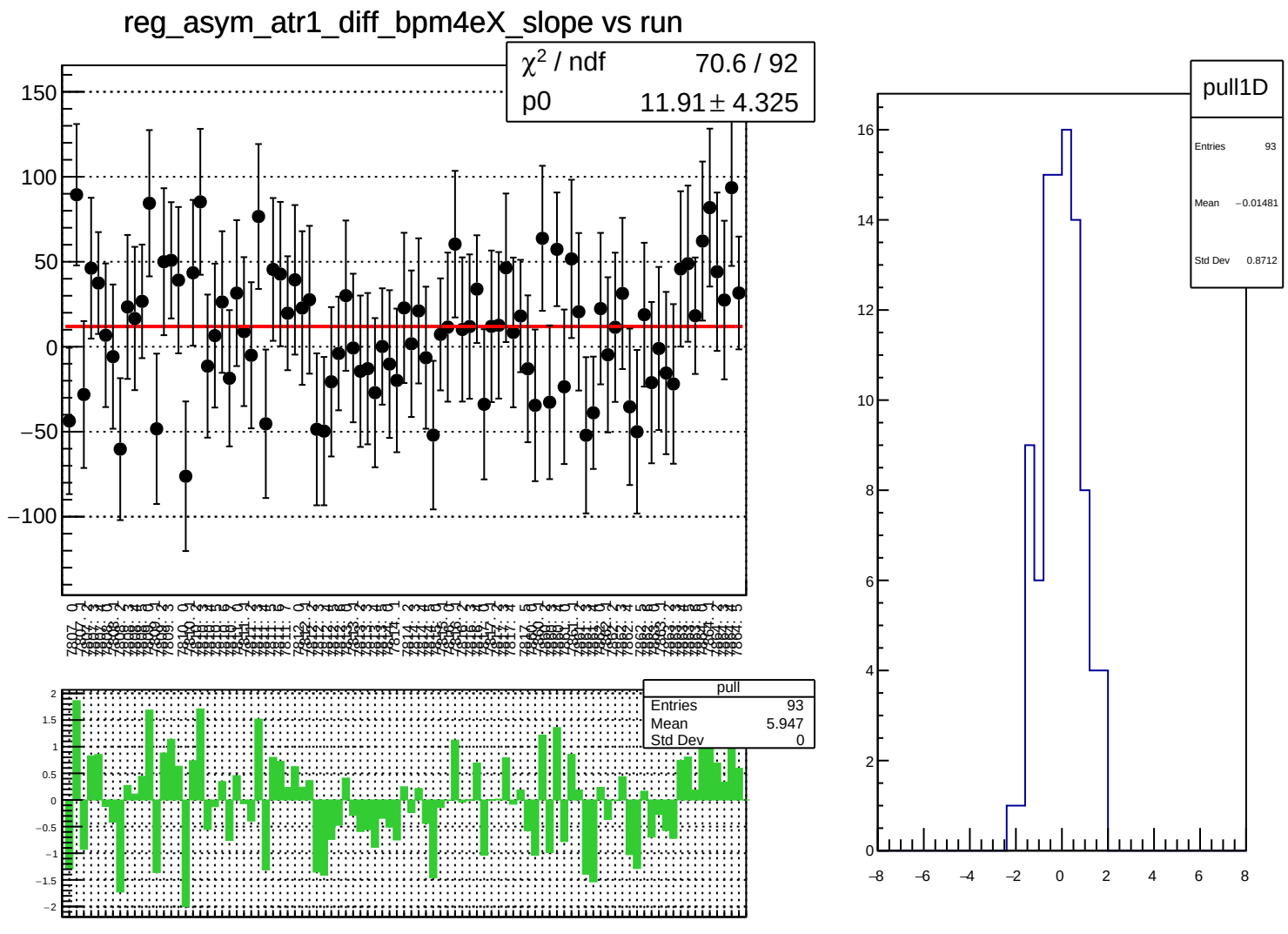

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 6.016 / 92
p0 21.56 ± 16.59
300
200
100
0
−100
−200
pull
Entries 93
Mean 200.5
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 93
Mean 0.01376
Std Dev 0.254
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

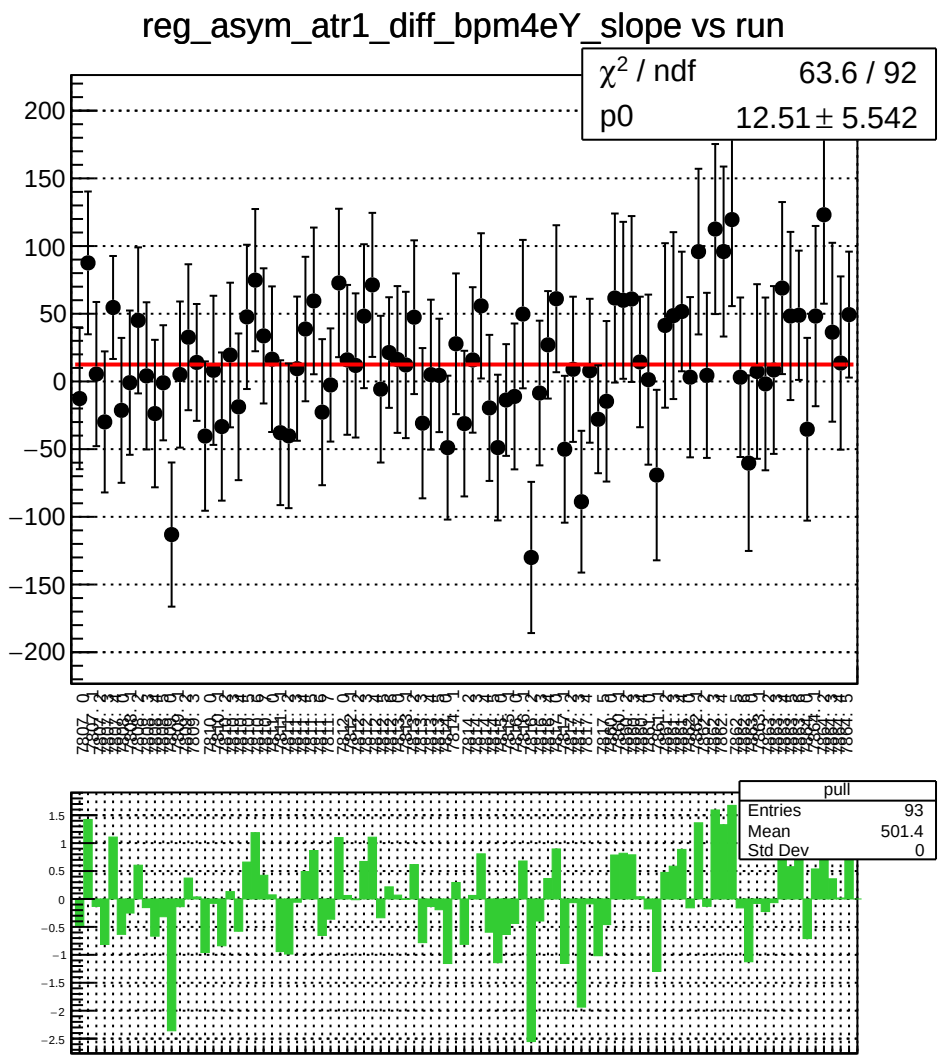

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 26.66 / 92
p0 −253.5 ± 0.4812
−240
−245
−250
−255
−260
−265
pull
Entries 93
Mean 146.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 93
Mean 0.05418
Std Dev 0.5327
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

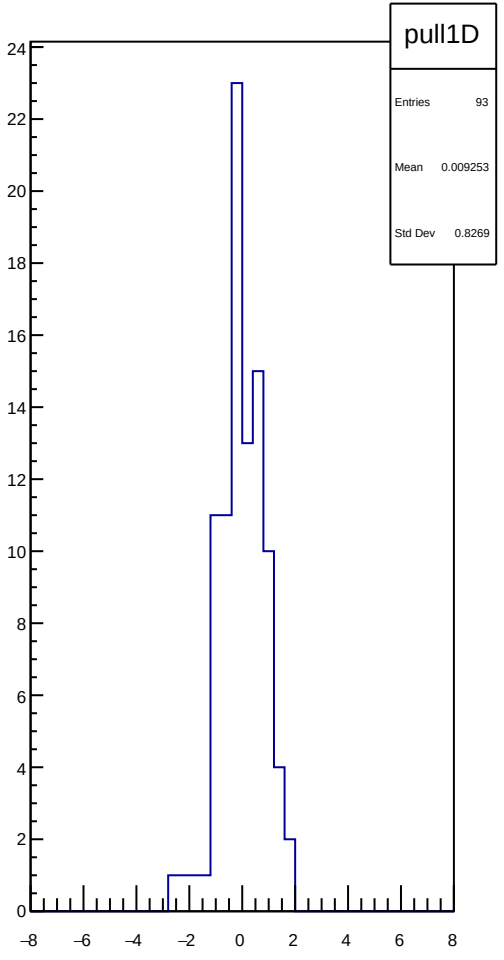

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 70.21 / 92
p0 −72.82 ± 4.782
pull
Entries 93
Mean 12.62
Std Dev 0
pull1D
Entries 93
Mean 0.01381
Std Dev 0.8688

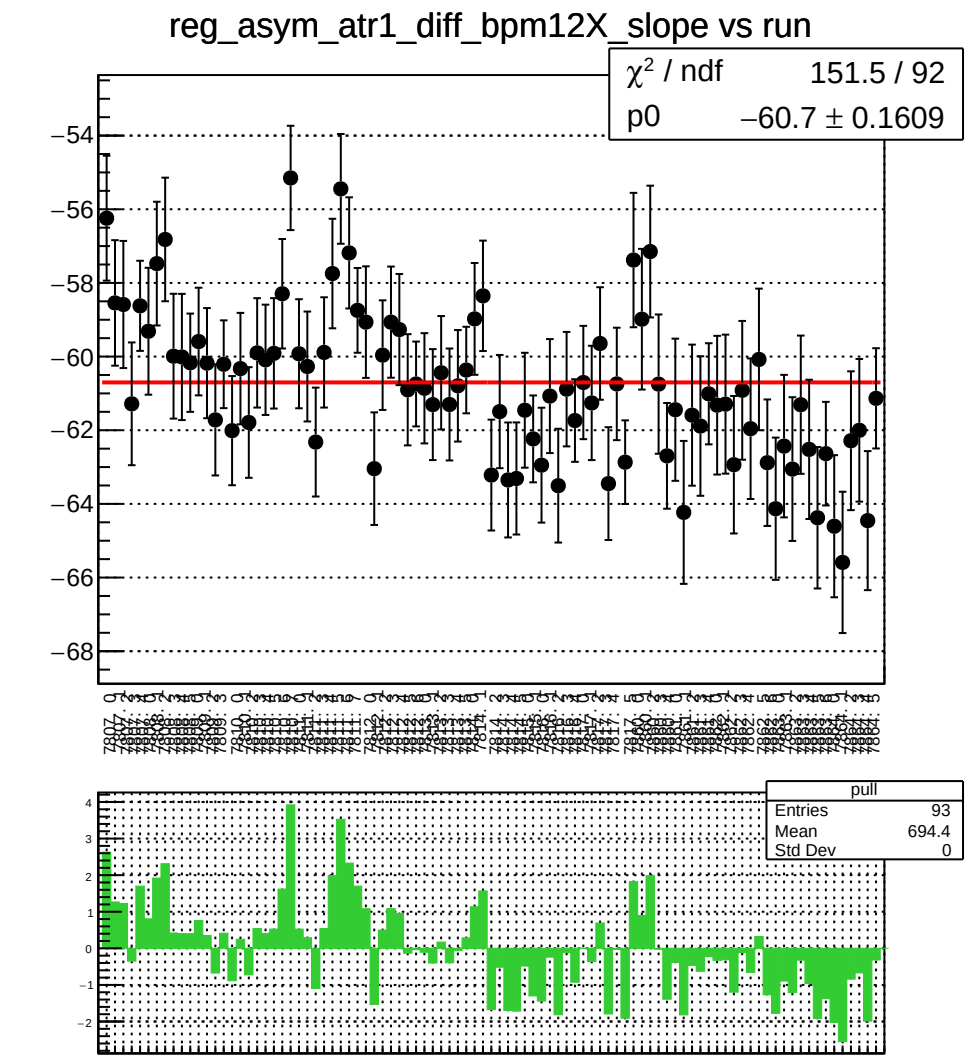

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 57.87 / 92
p0 6.549 ± 4.863
pull
Entries 93
Mean 82.11
Std Dev 0

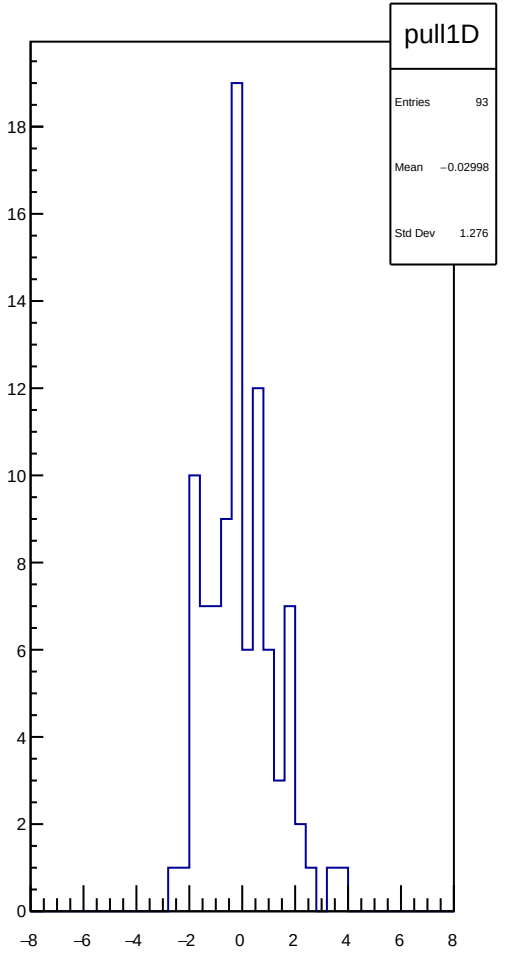

pull1D
Entries 93
Mean 0.003261
Std Dev 0.7888

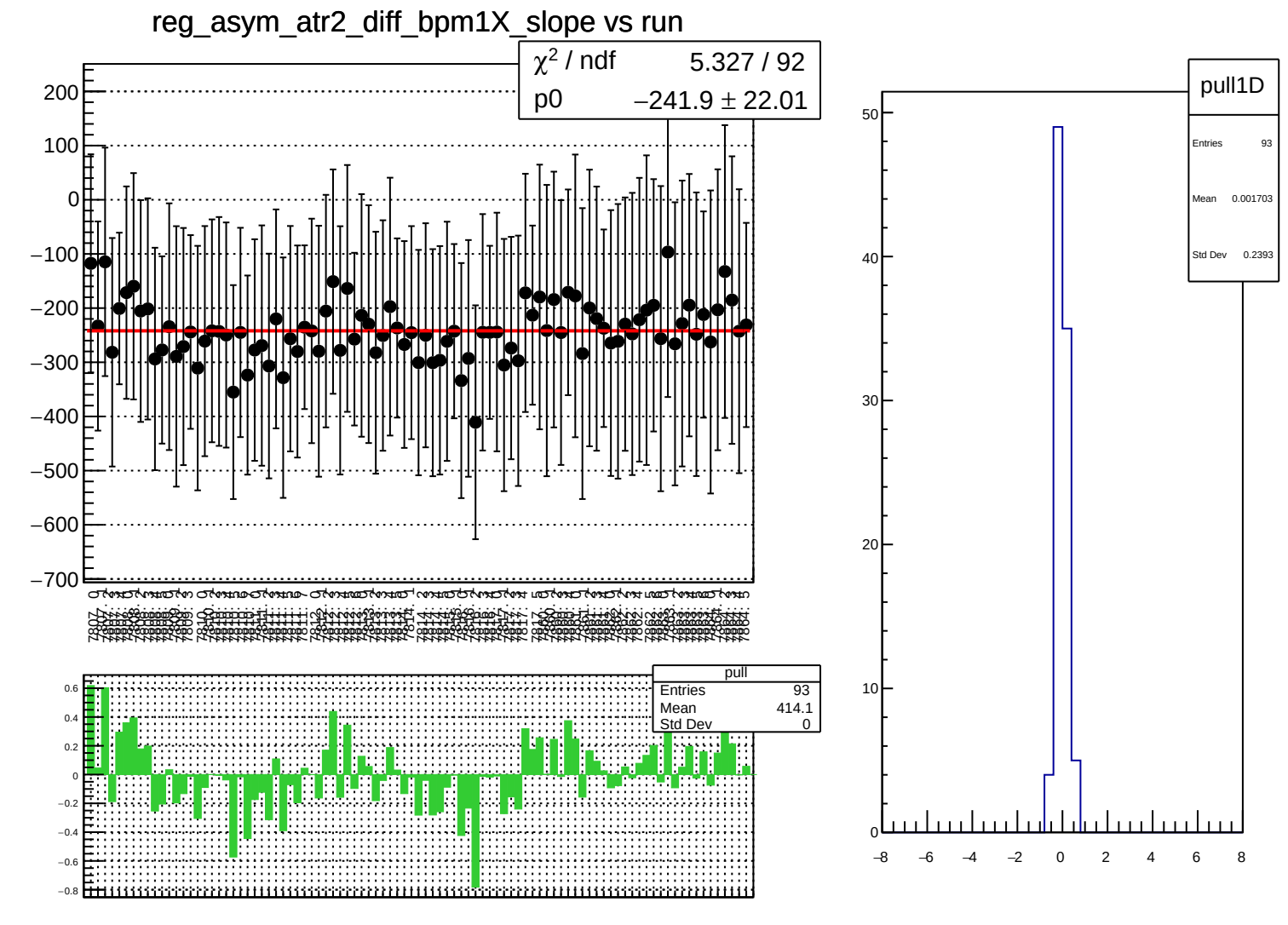

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 70.6 / 92
p0 11.91 ± 4.325
150
100
50
0
−50
−100
pull
Entries 93
Mean 5.947
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean −0.01481
Std Dev 0.8712
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

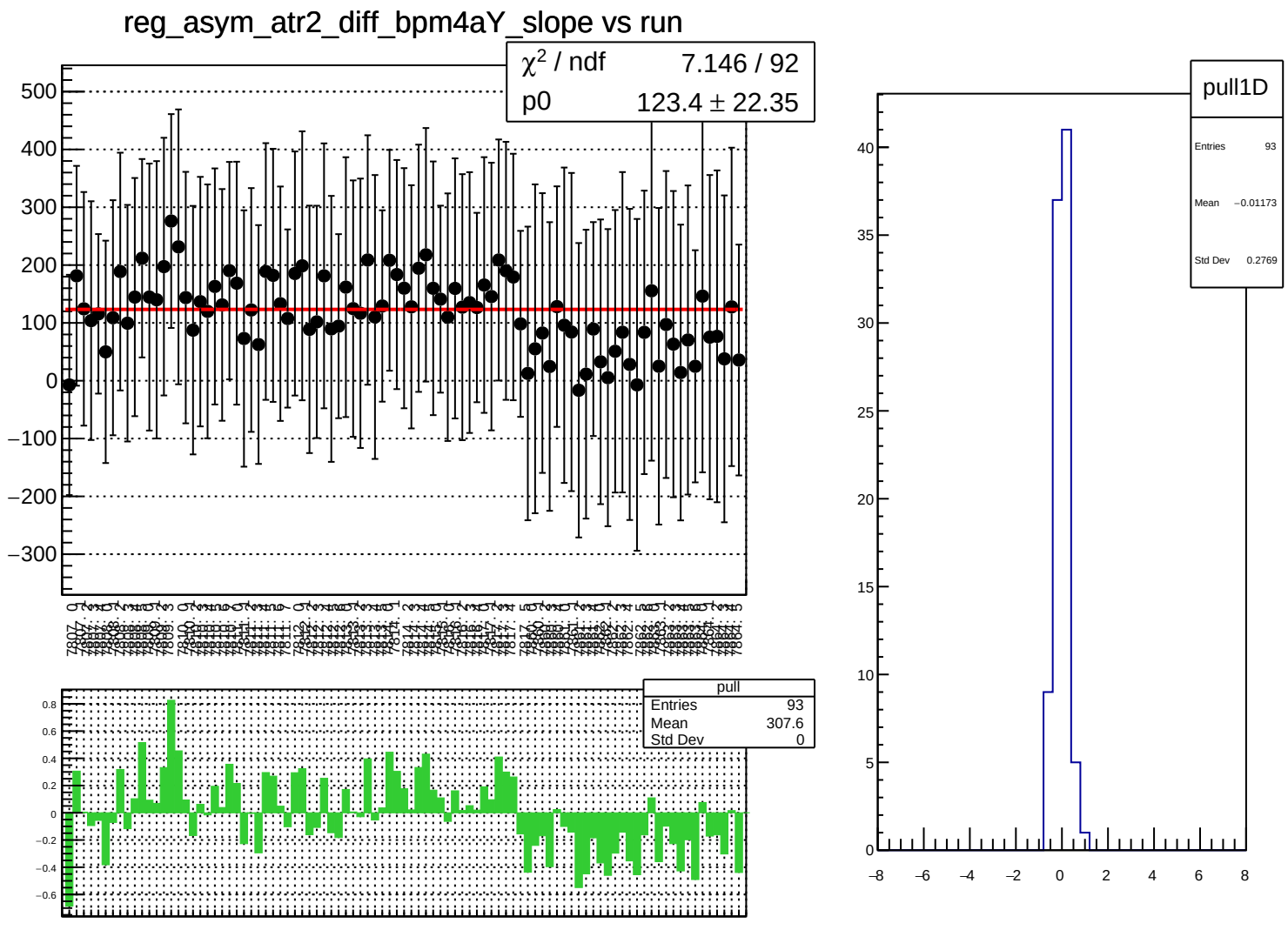

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 63.6 / 92
p0 12.51 ± 5.542
pull
Entries 93
Mean 501.4
Std Dev 0

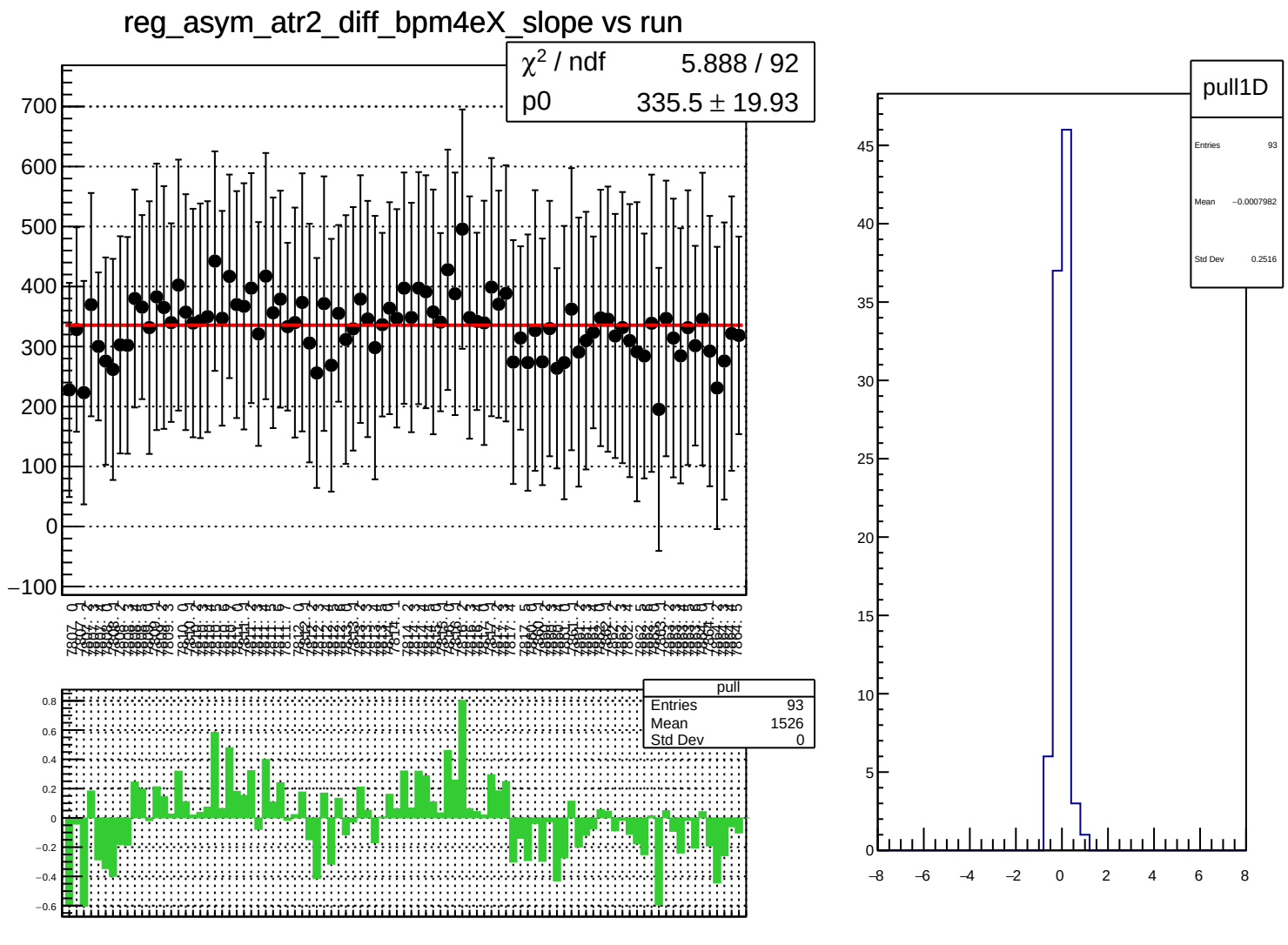

pull1D
Entries 93
Mean 0.009253
Std Dev 0.8269

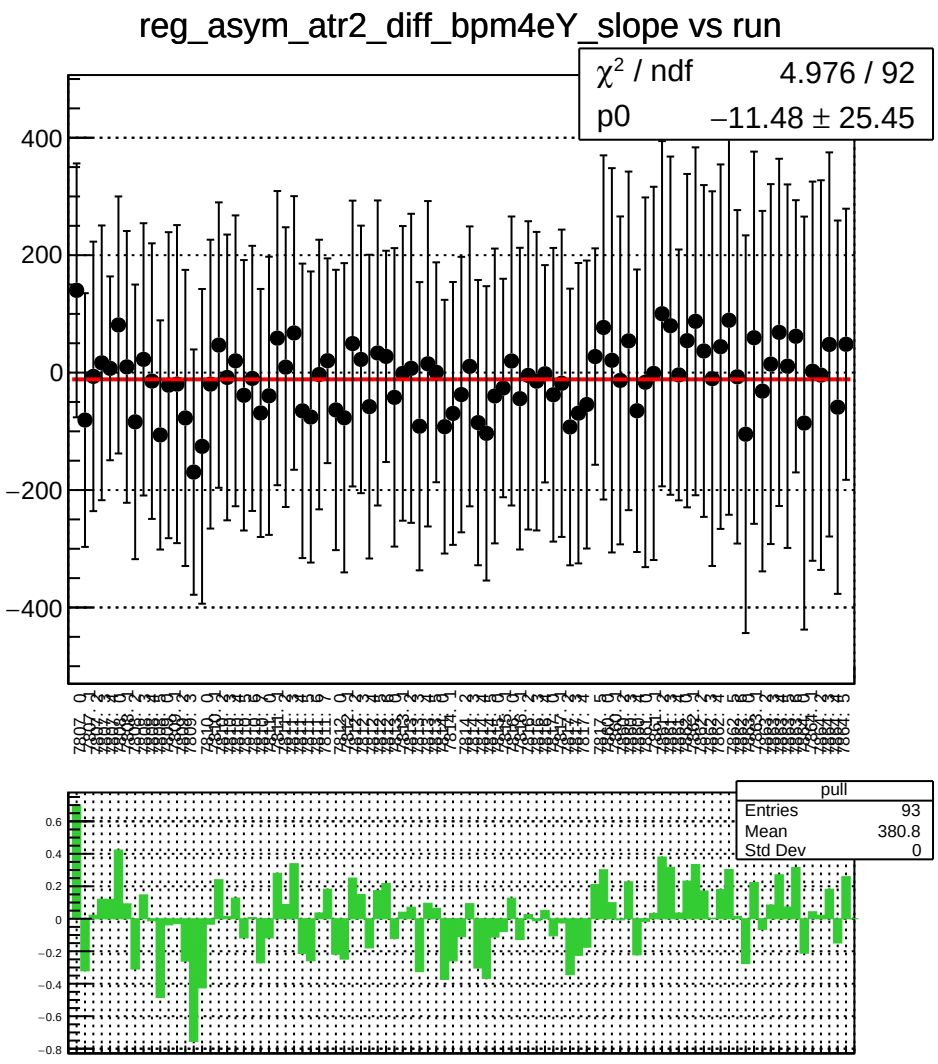

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 151.5 / 92
p0 −60.7 ± 0.1609
pull
Entries 93
Mean 694.4
Std Dev 0

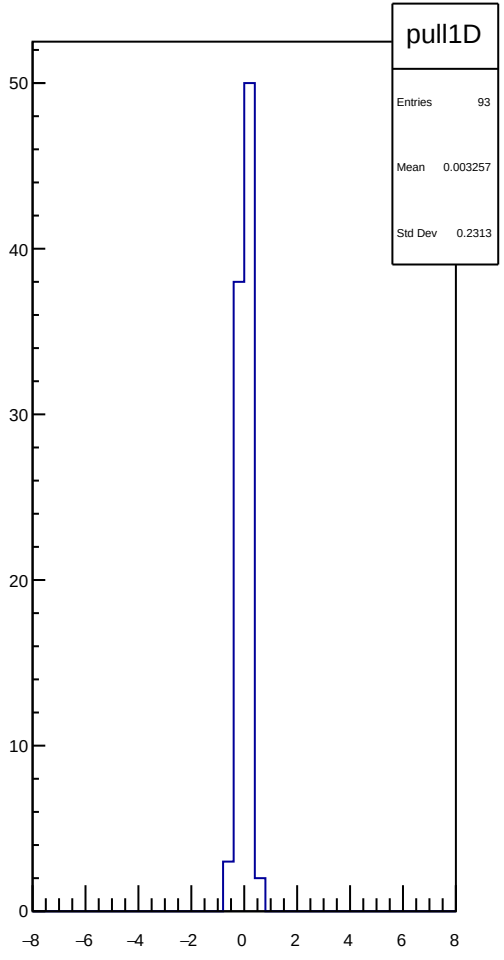

pull1D
Entries 93
Mean −0.02998
Std Dev 1.276

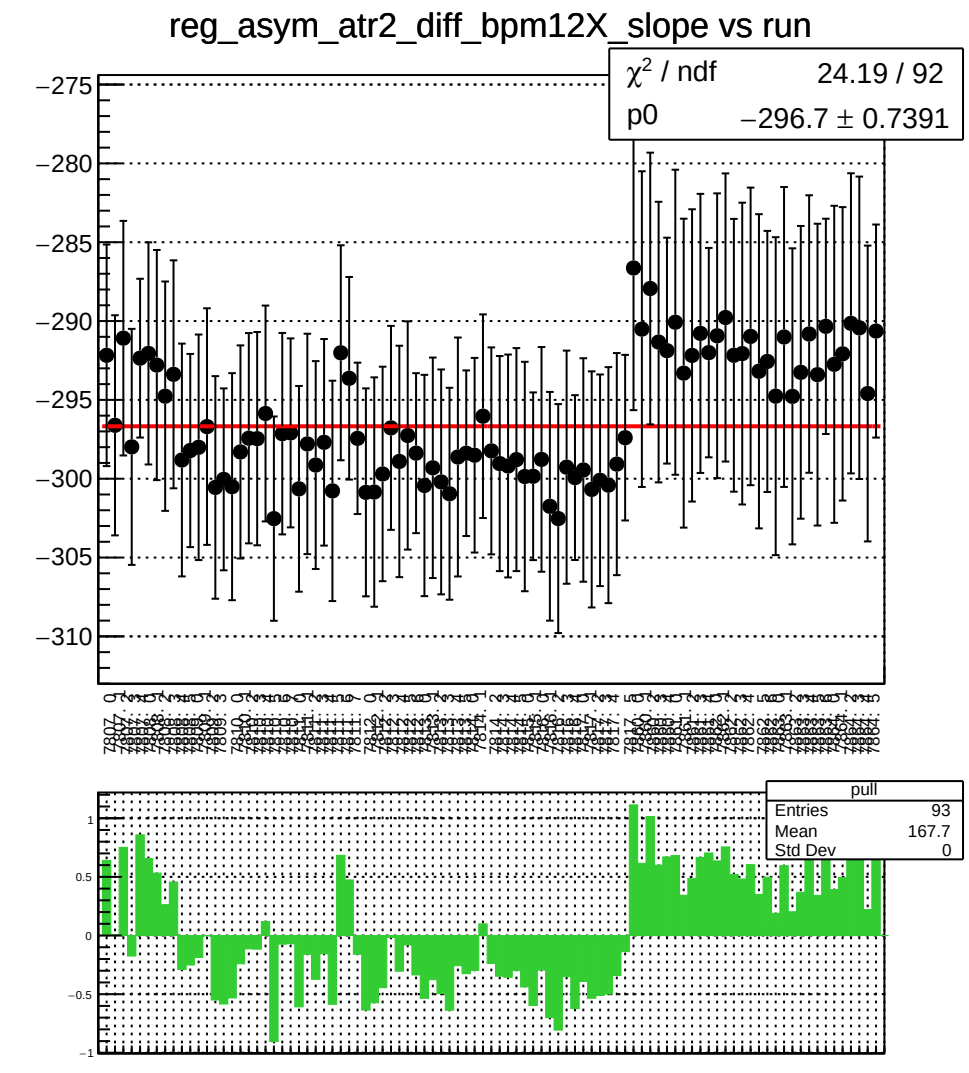

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 5.327 / 92
p0 −241.9 ± 22.01
pull
Entries 93
Mean 414.1
Std Dev 0
pull1D
Entries 93
Mean 0.001703
Std Dev 0.2393

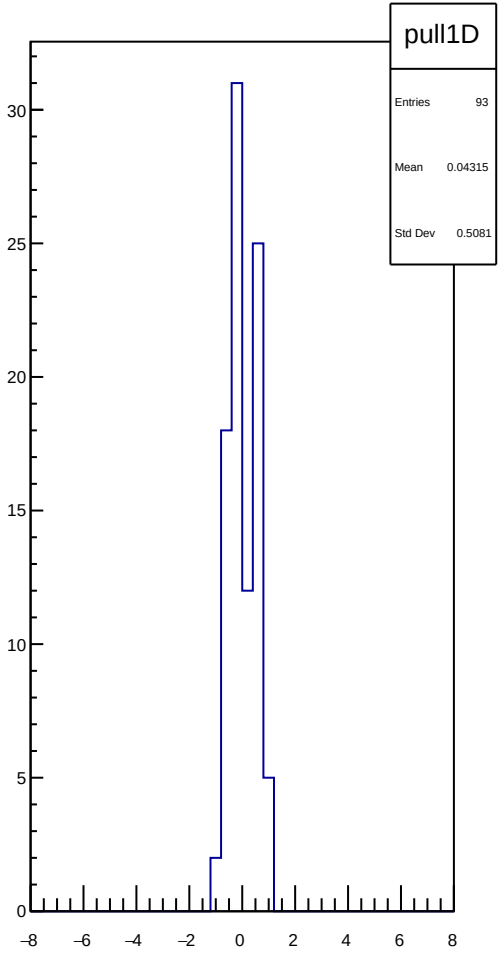

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 7.146 / 92
p0 123.4 ± 22.35
pull
Entries 93
Mean 307.6
Std Dev 0
pull1D
Entries 93
Mean −0.01173
Std Dev 0.2769

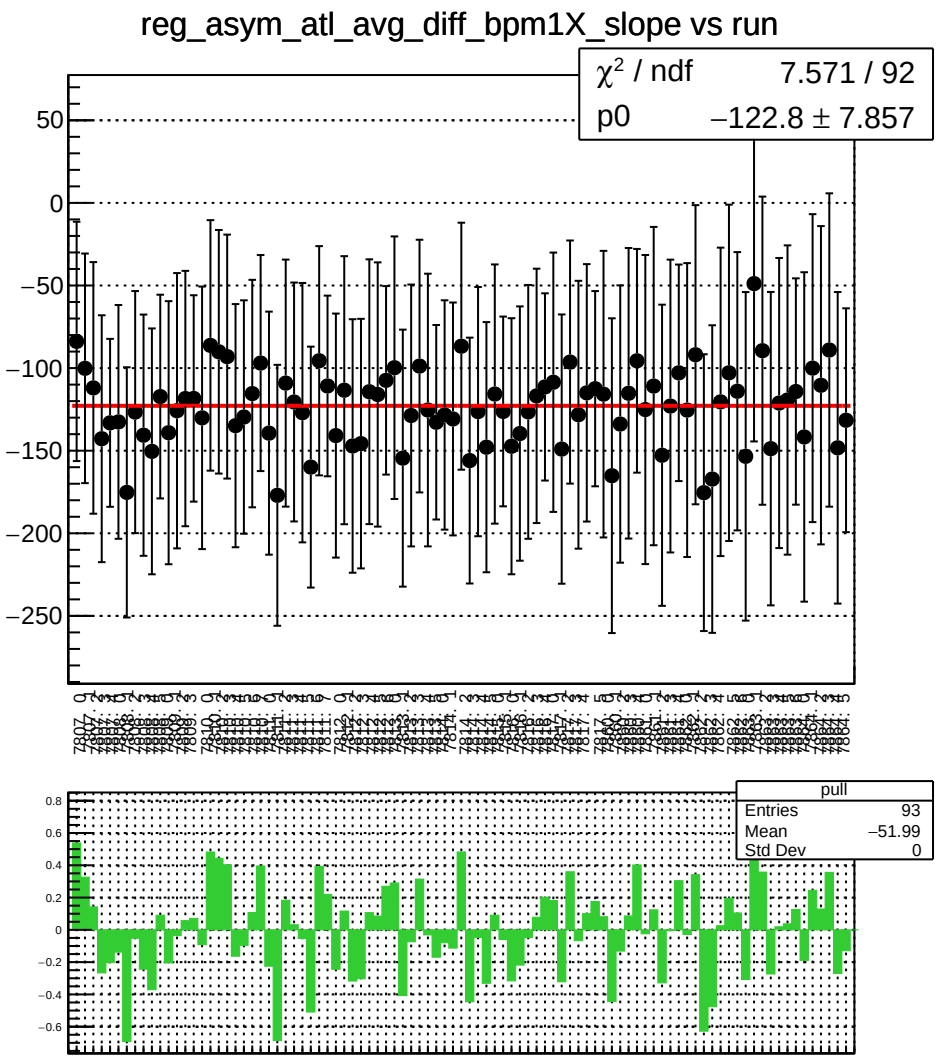

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 5.888 / 92
p0 335.5 ± 19.93
pull
Entries 93
Mean 1526
Std Dev 0
pull1D
Entries 93
Mean −0.0007982
Std Dev 0.2516

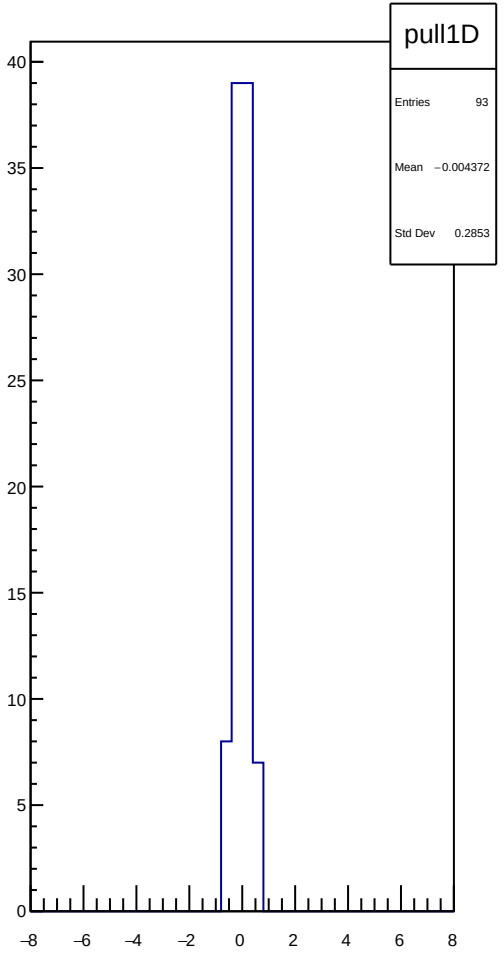

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 4.976 / 92
p0 −11.48 ± 25.45
400
200
0
−200
−400
pull
Entries 93
Mean 380.8
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

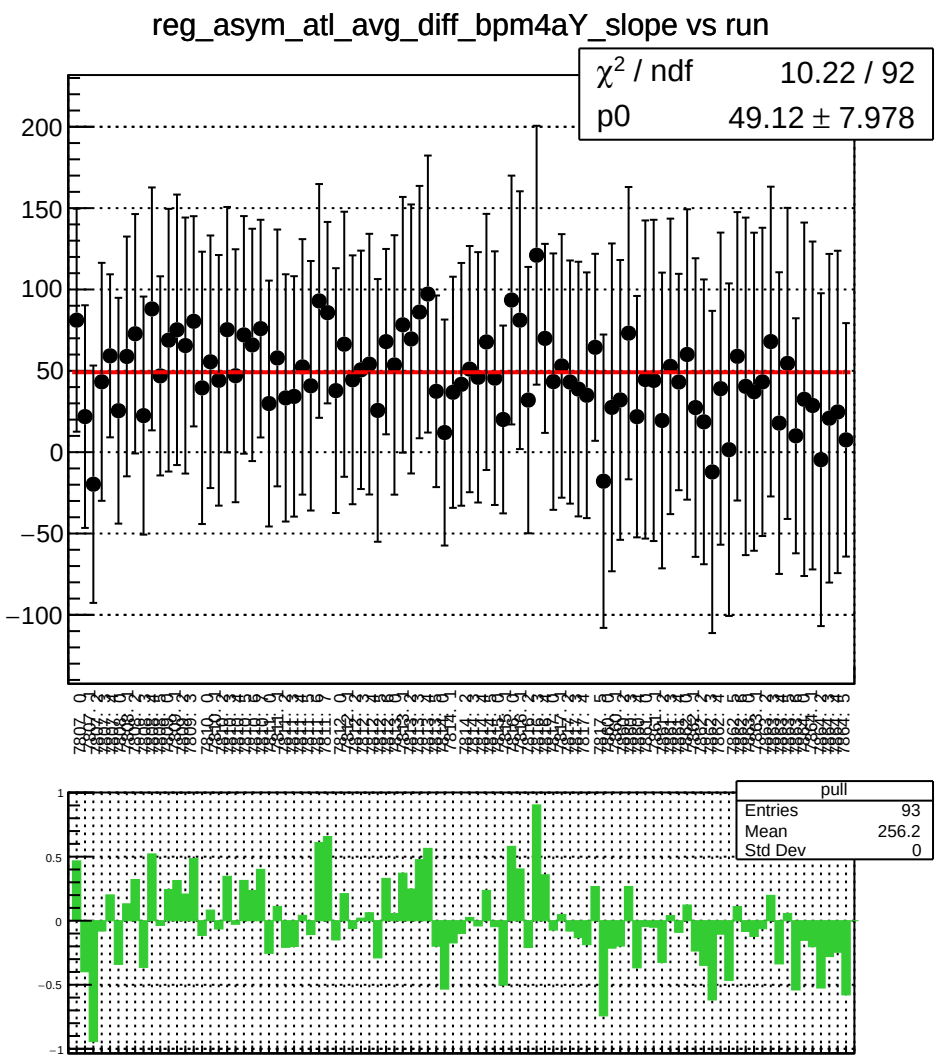

pull1D
Entries 93
Mean 0.003257
Std Dev 0.2313
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

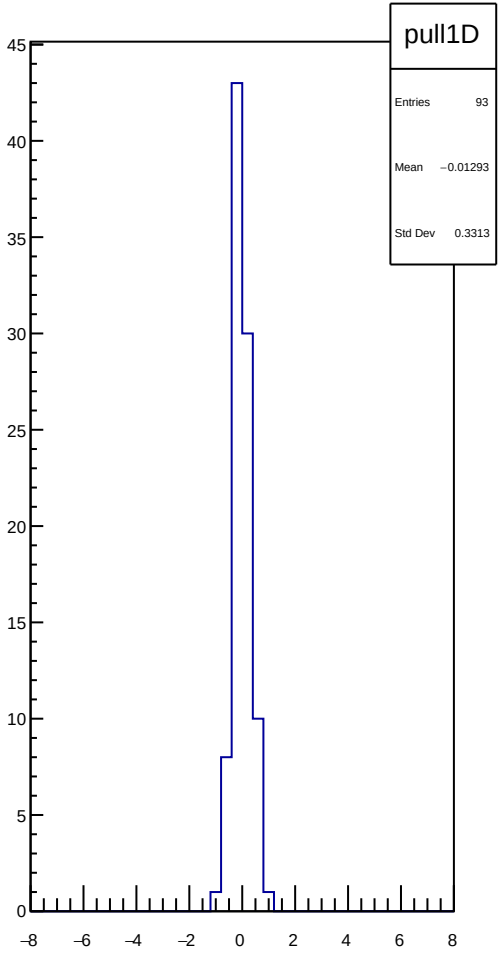

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 24.19 / 92
p0 −296.7 ± 0.7391
pull
Entries 93
Mean 167.7
Std Dev 0

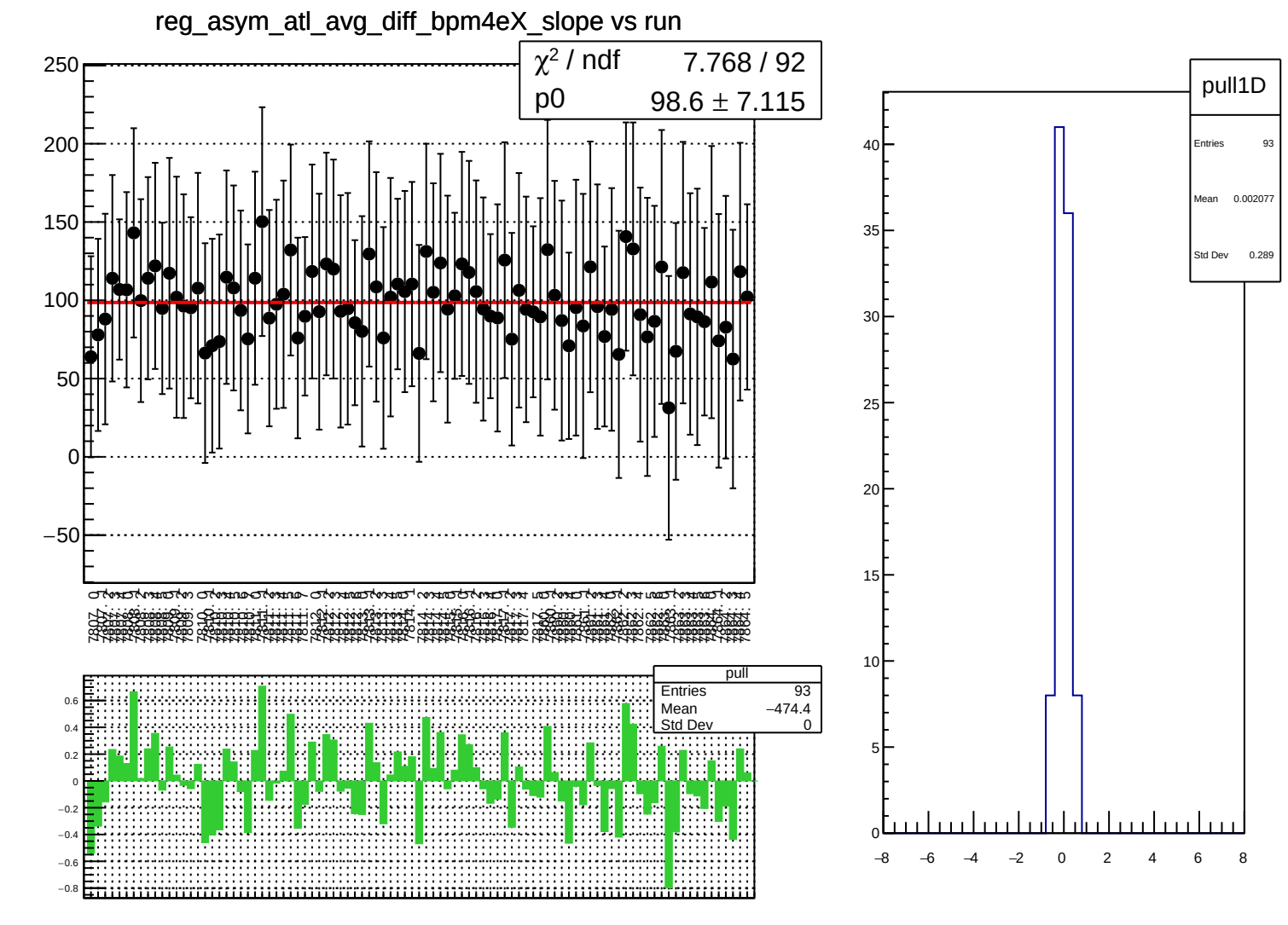

pull1D
Entries 93
Mean 0.04315
Std Dev 0.5081

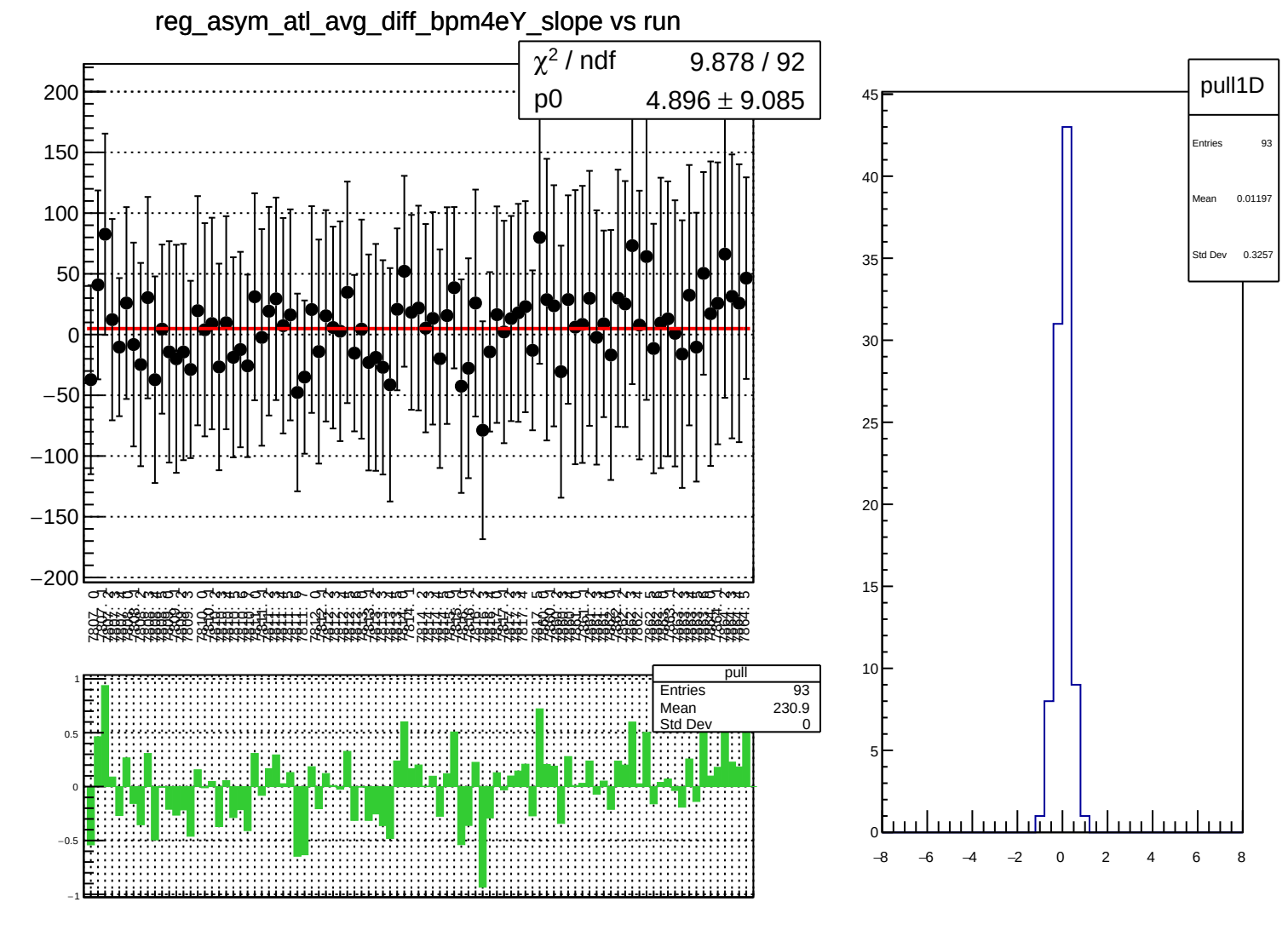

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 7.571 / 92
p0 −122.8 ± 7.857
pull
Entries 93
Mean −51.99
Std Dev 0

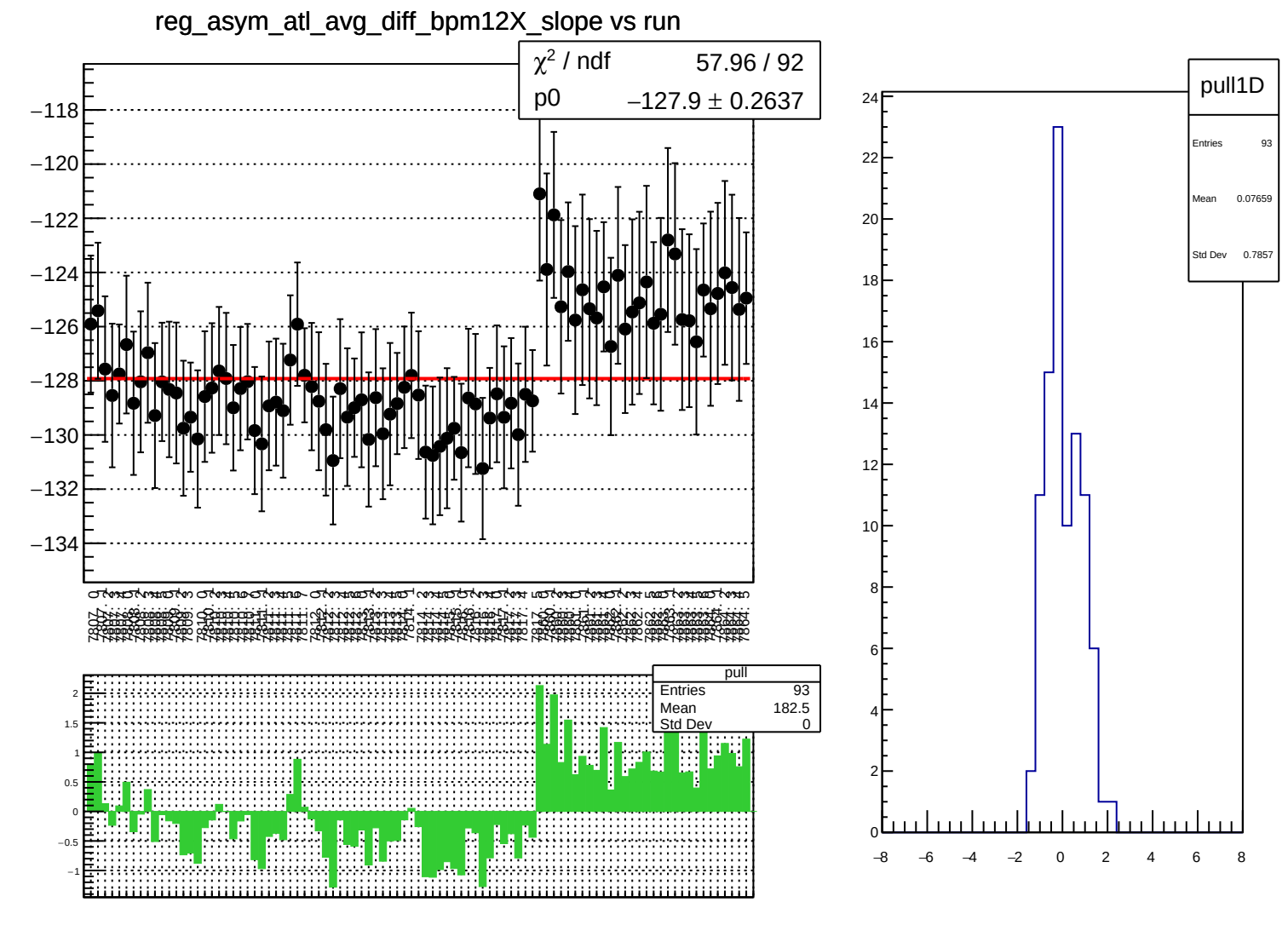

pull1D
Entries 93
Mean −0.004372
Std Dev 0.2853

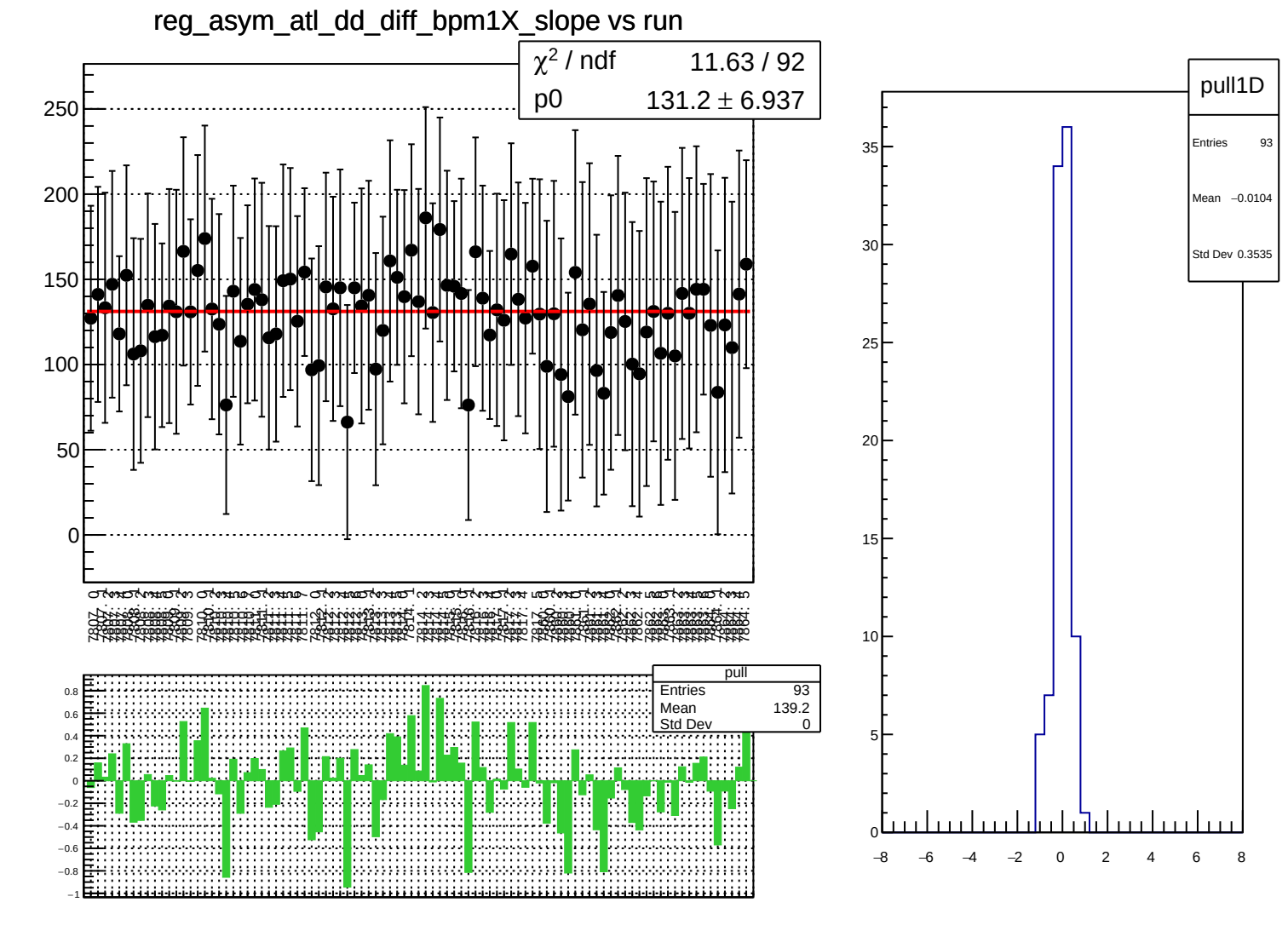

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 10.22 / 92
p0 49.12 ± 7.978
pull
Entries 93
Mean 256.2
Std Dev 0

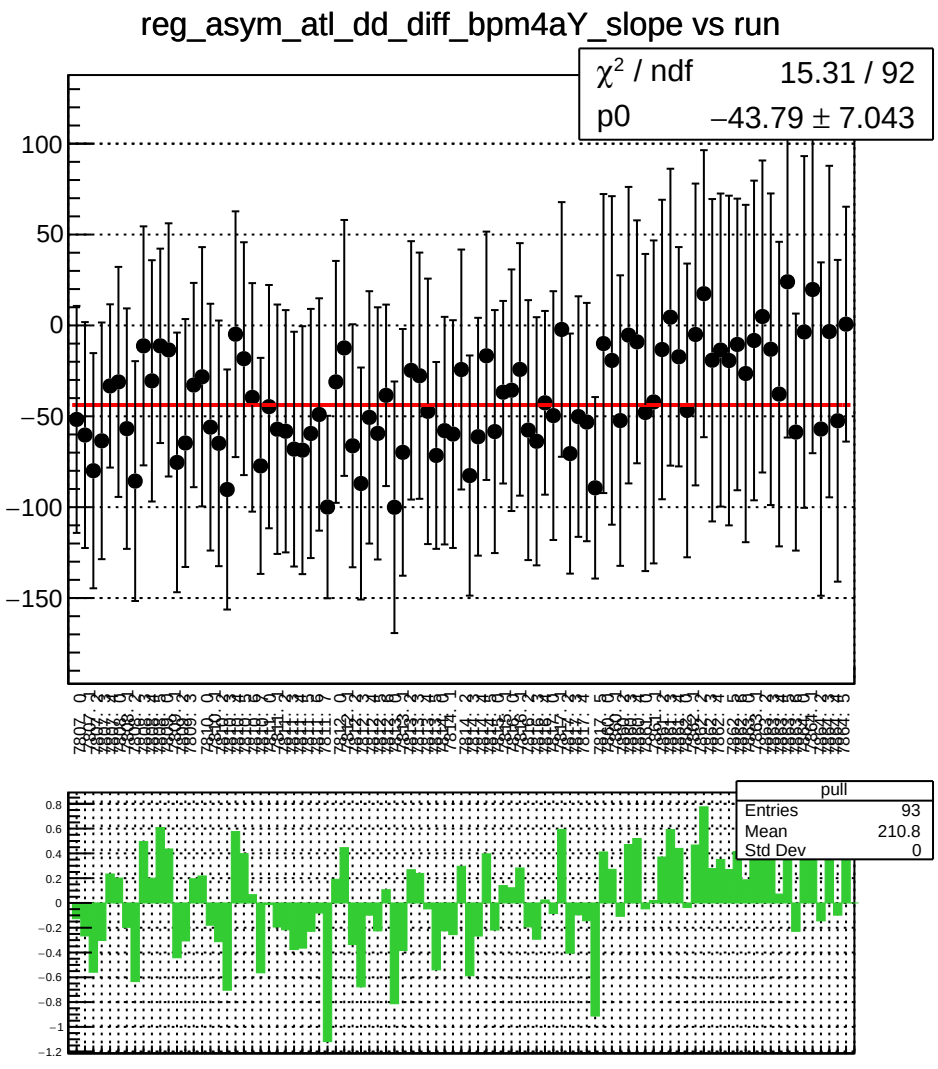

pull1D
Entries 93
Mean −0.01293
Std Dev 0.3313

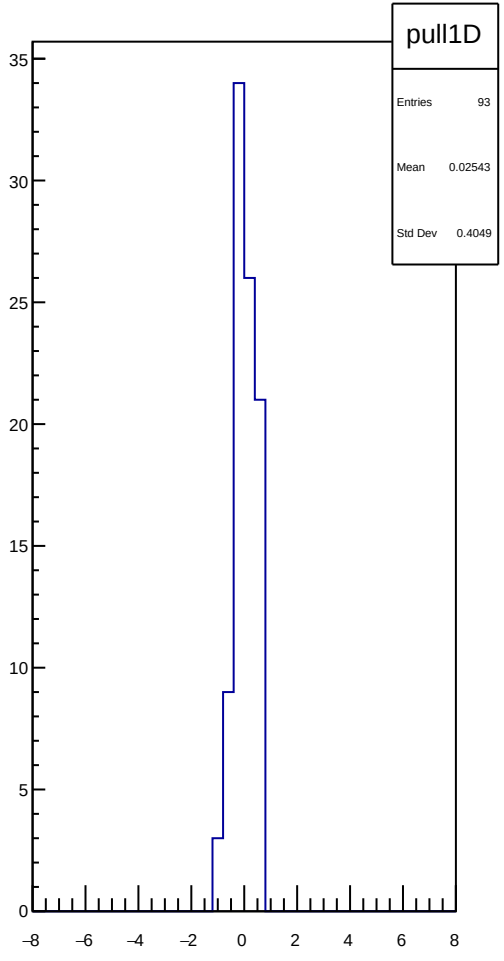

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 7.768 / 92
p0 98.6 ± 7.115
250
200
150
100
50
0
−50
pull
Entries 93
Mean −474.4
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 93
Mean 0.002077
Std Dev 0.289
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

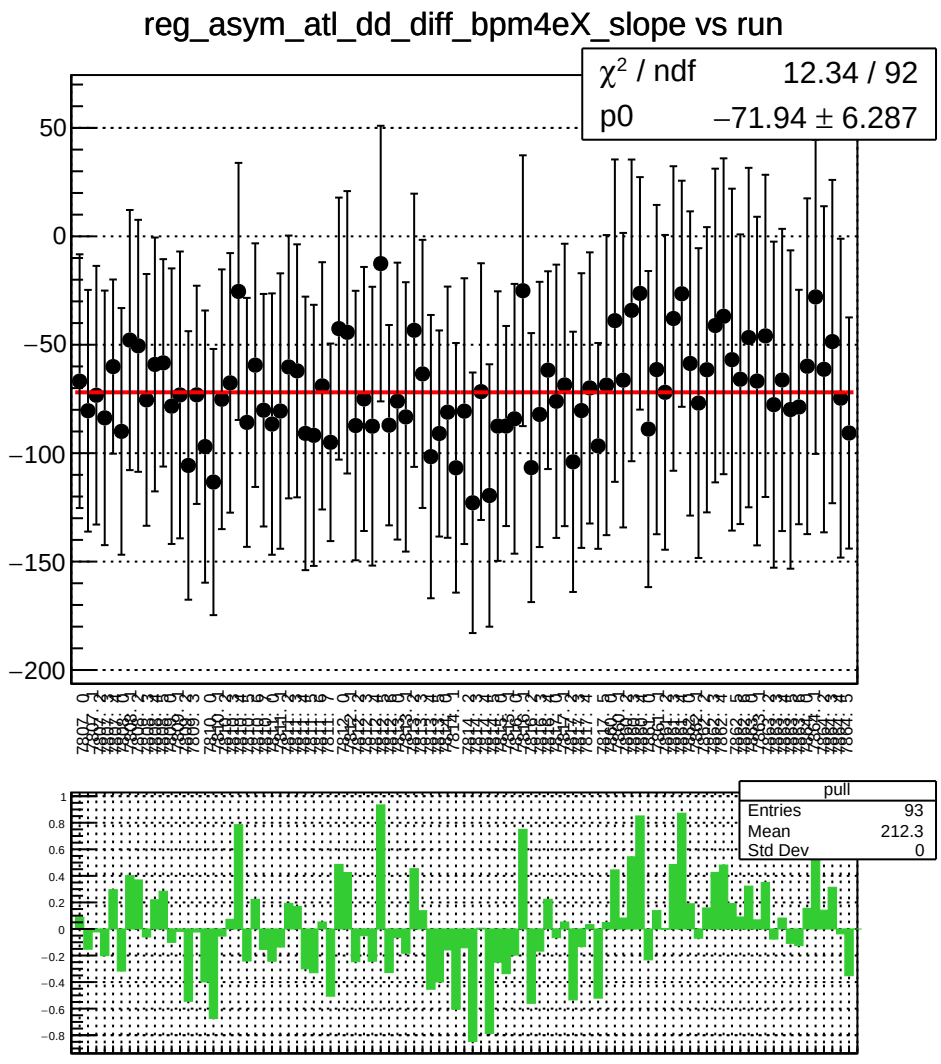

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.878 / 92
p0 4.896 ± 9.085
pull
Entries 93
Mean 230.9
Std Dev 0
pull1D
Entries 93
Mean 0.01197
Std Dev 0.3257

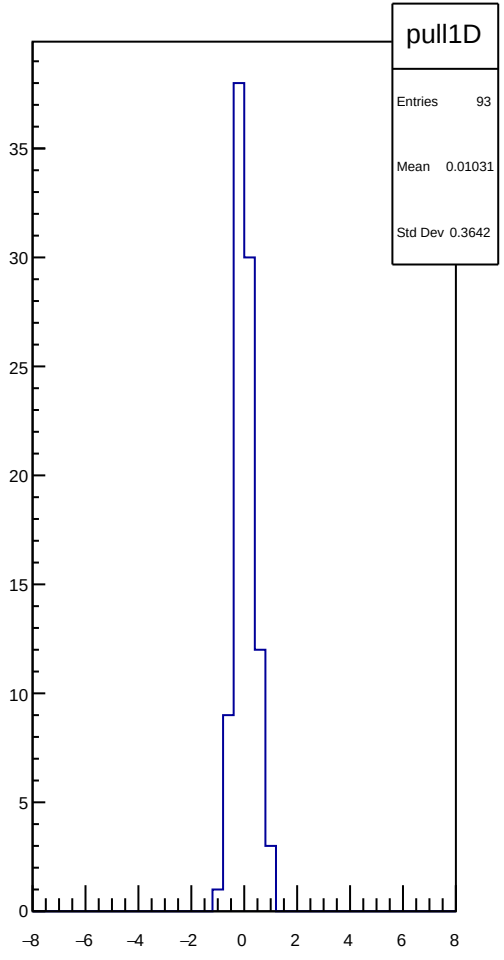

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 57.96 / 92
p0 −127.9 ± 0.2637
pull
Entries 93
Mean 182.5
Std Dev 0
pull1D
Entries 93
Mean 0.07659
Std Dev 0.7857

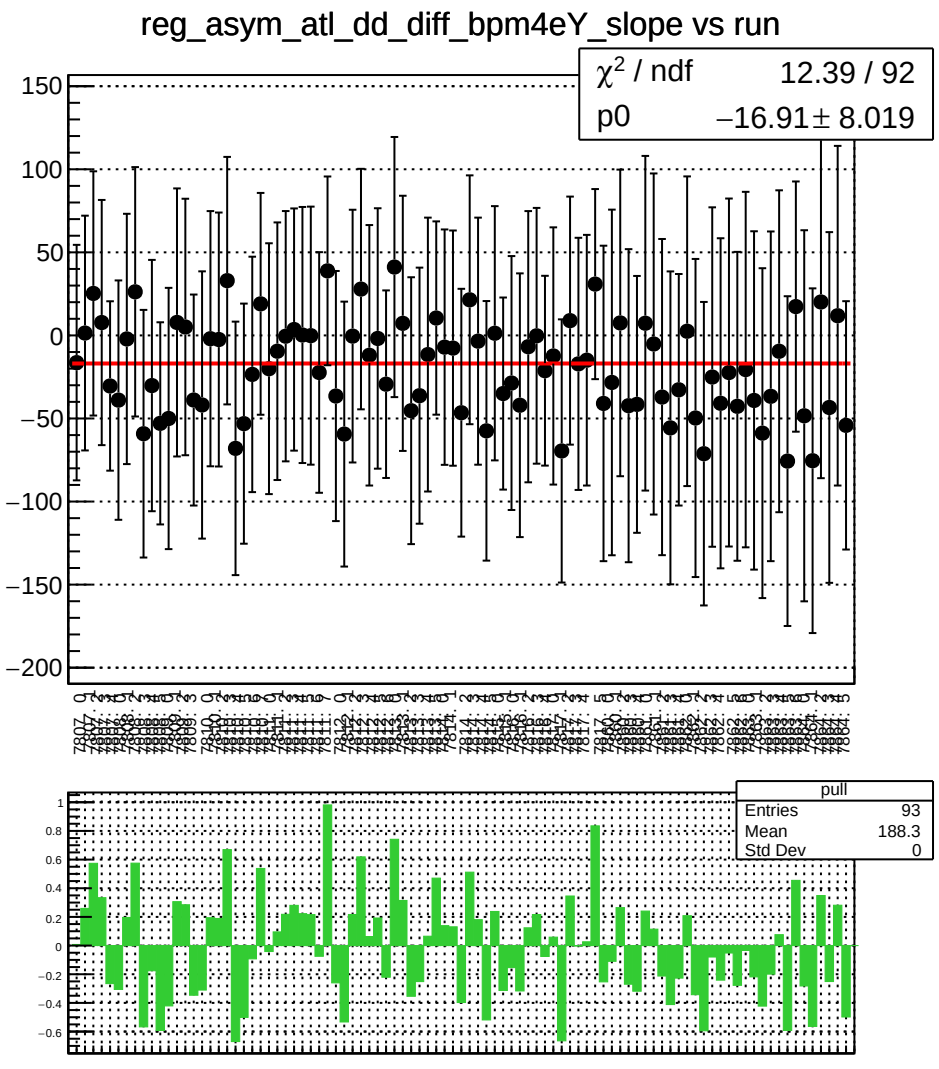

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 11.63 / 92
p0 131.2 ± 6.937
pull
Entries 93
Mean 139.2
Std Dev 0
pull1D
Entries 93
Mean −0.0104
Std Dev 0.3535

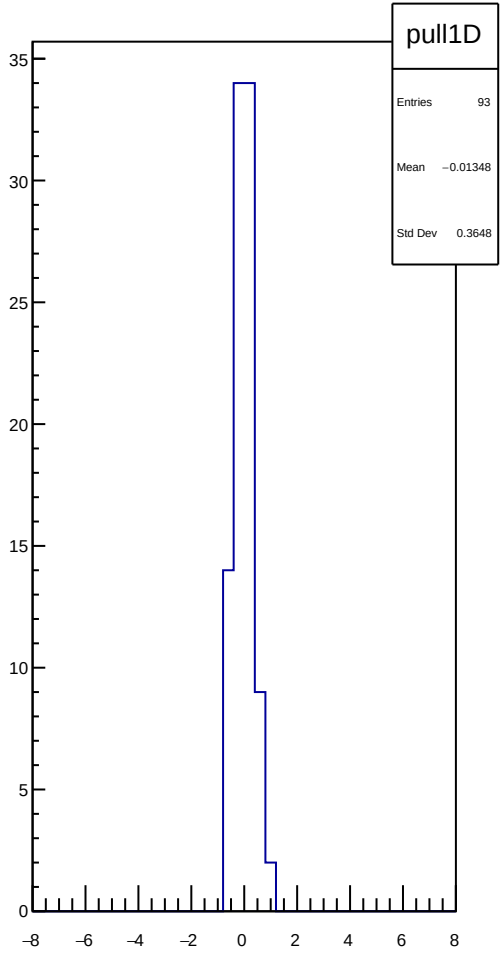

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 15.31 / 92
p0 −43.79 ± 7.043
100
50
0
−50
−100
−150
pull
Entries 93
Mean 210.8
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

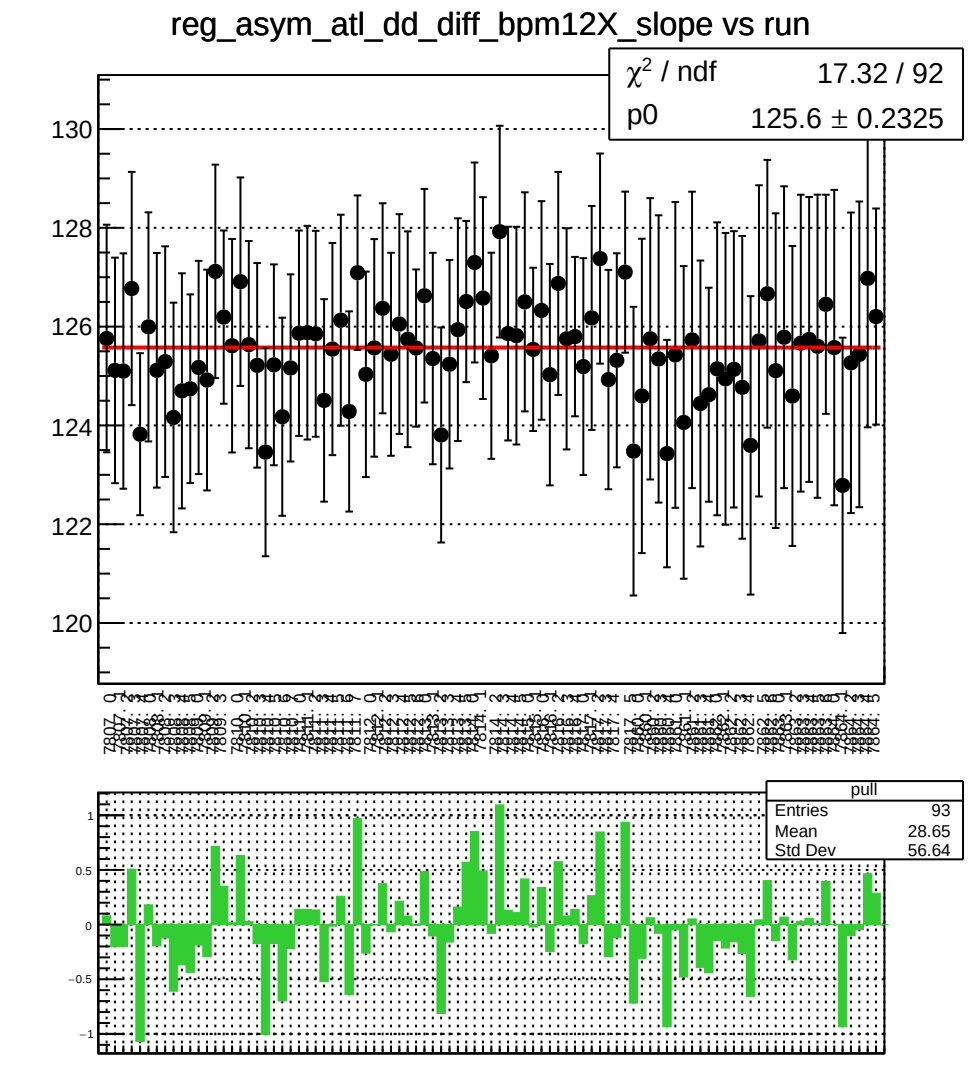

pull1D
Entries 93
Mean 0.02543
Std Dev 0.4049
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

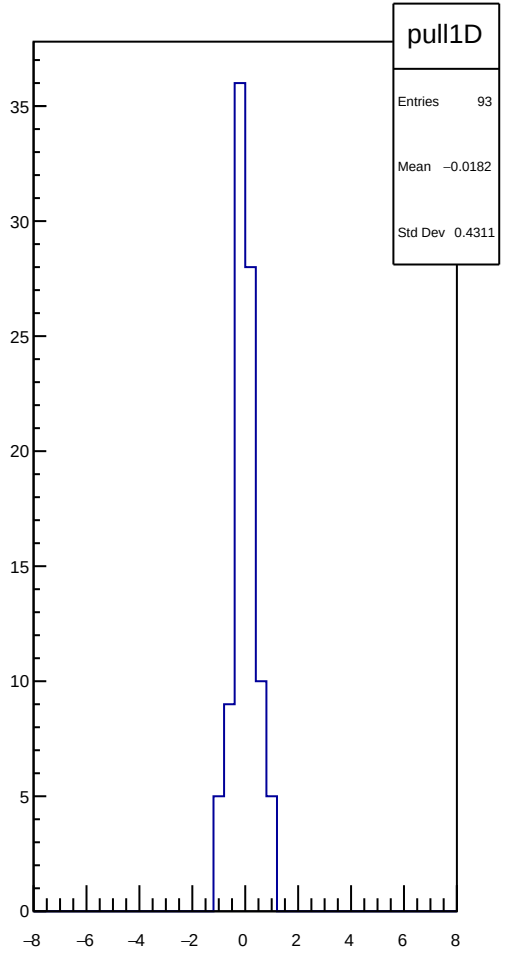

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 12.34 / 92
p0 −71.94 ± 6.287
50
0
−50
−100
−150
−200
pull
Entries 93
Mean 212.3
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

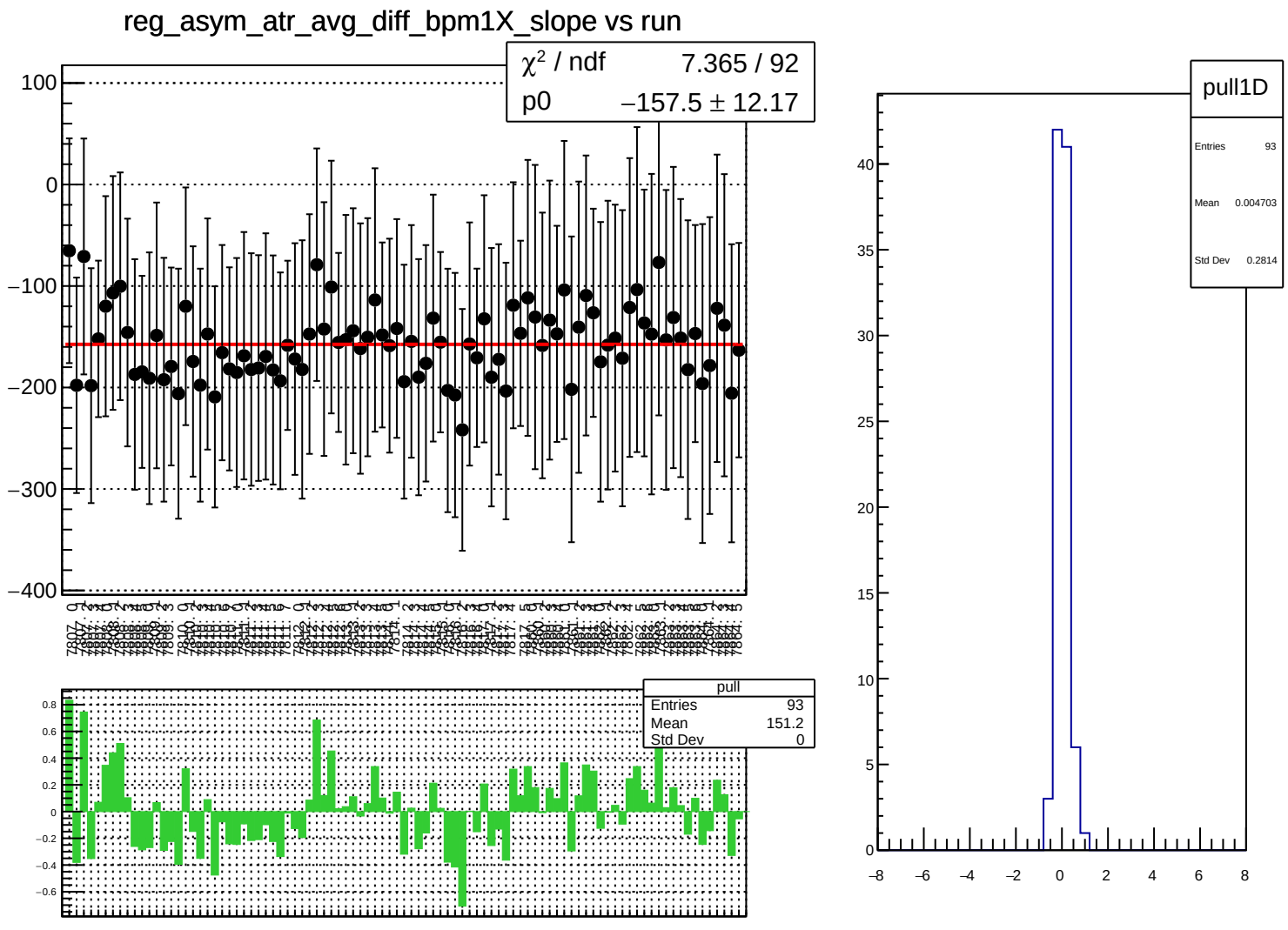

pull1D
Entries 93
Mean 0.01031
Std Dev 0.3642
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

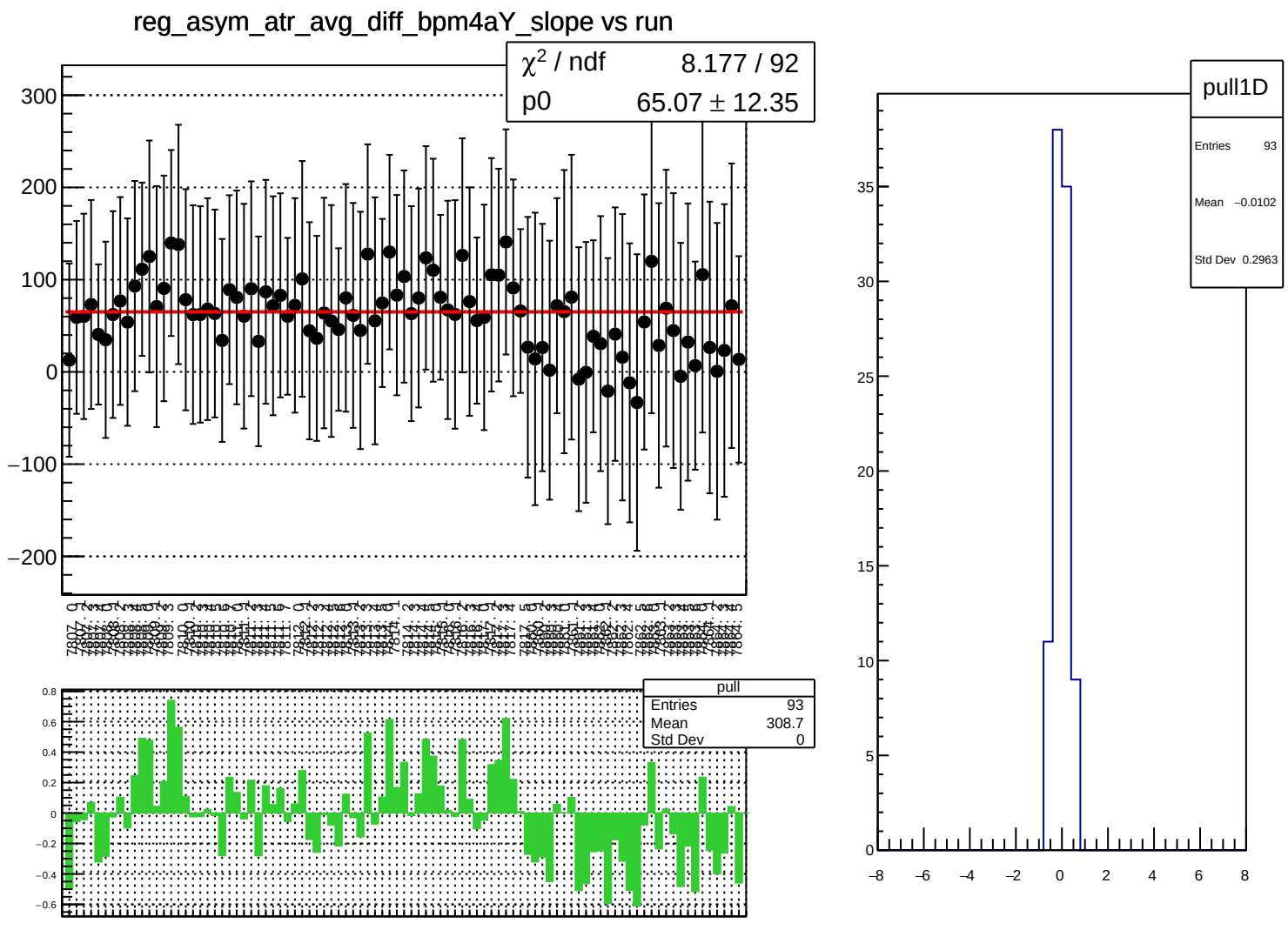

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.39 / 92
p0 −16.91 ± 8.019
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean 188.3
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

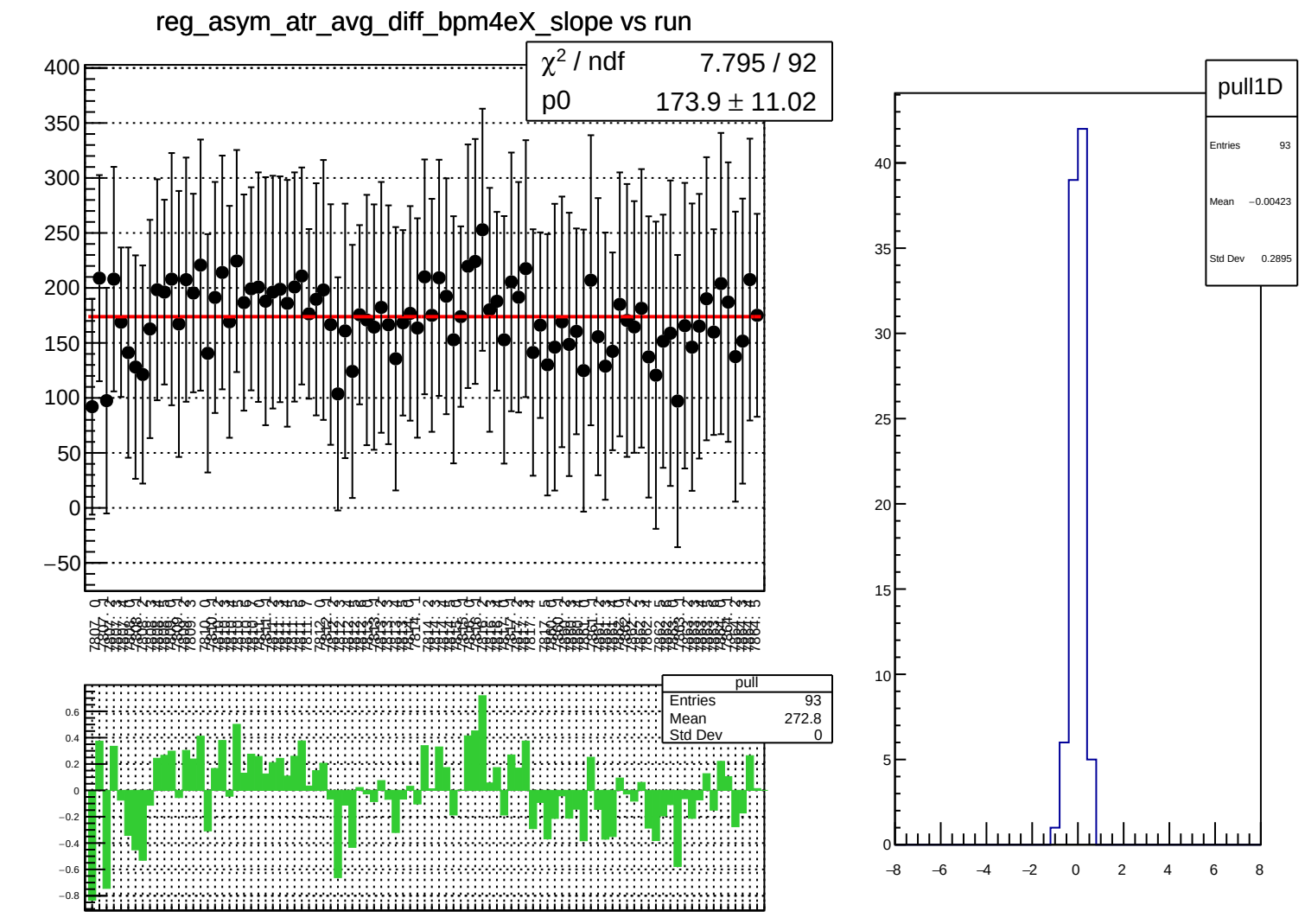

pull1D
Entries 93
Mean −0.01348
Std Dev 0.3648
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

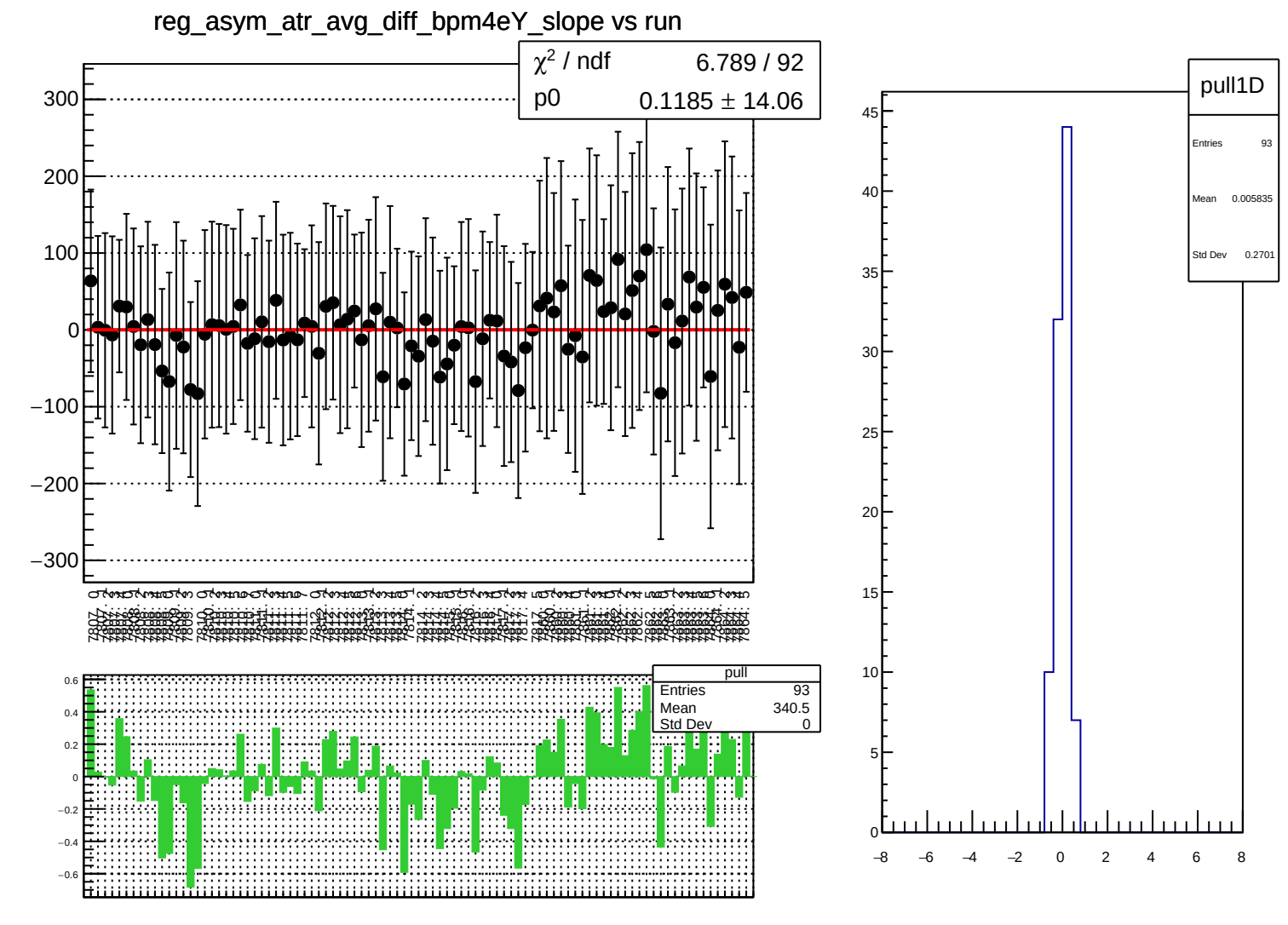

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 17.32 / 92
p0 125.6 ± 0.2325
130
128
126
124
122
120
pull
Entries 93
Mean 28.65
Std Dev 56.64
1
0.5
0
−0.5
−1

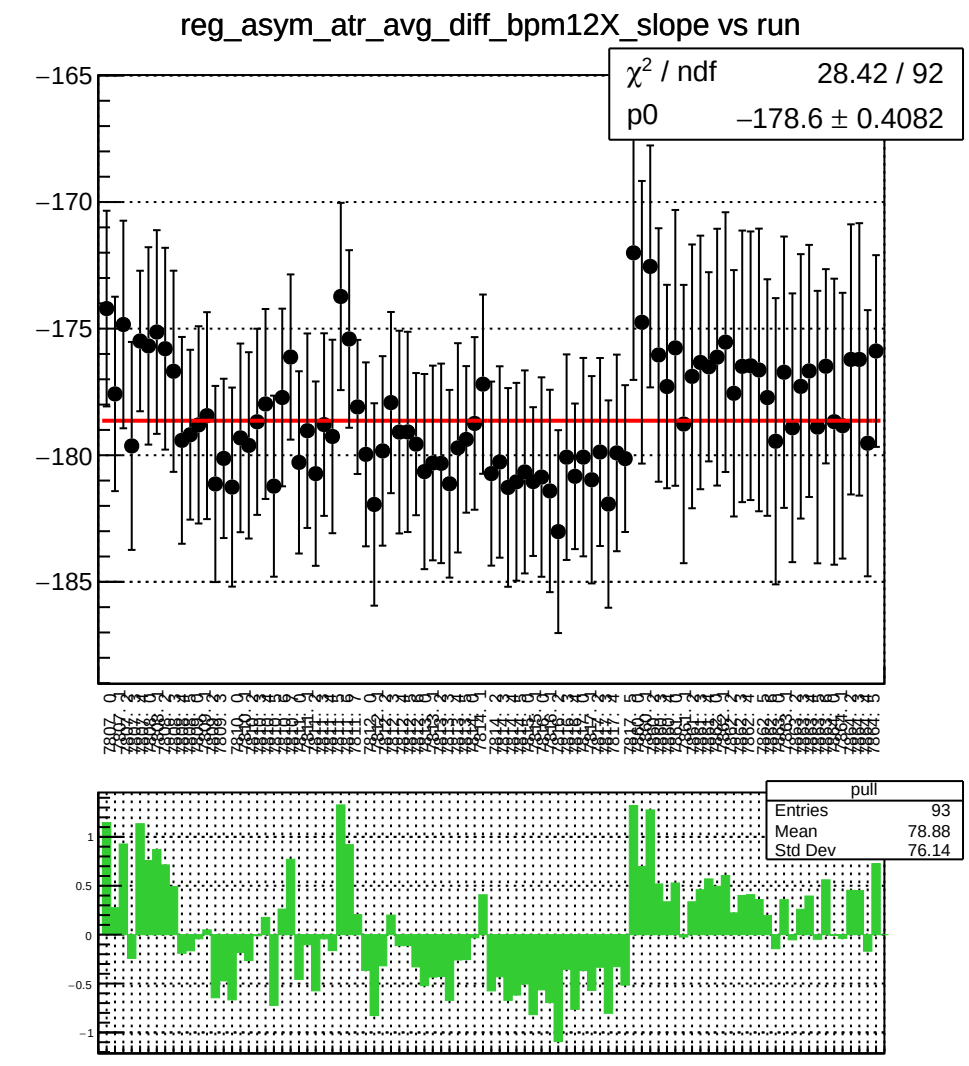

pull1D
Entries 93
Mean −0.0182
Std Dev 0.4311
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

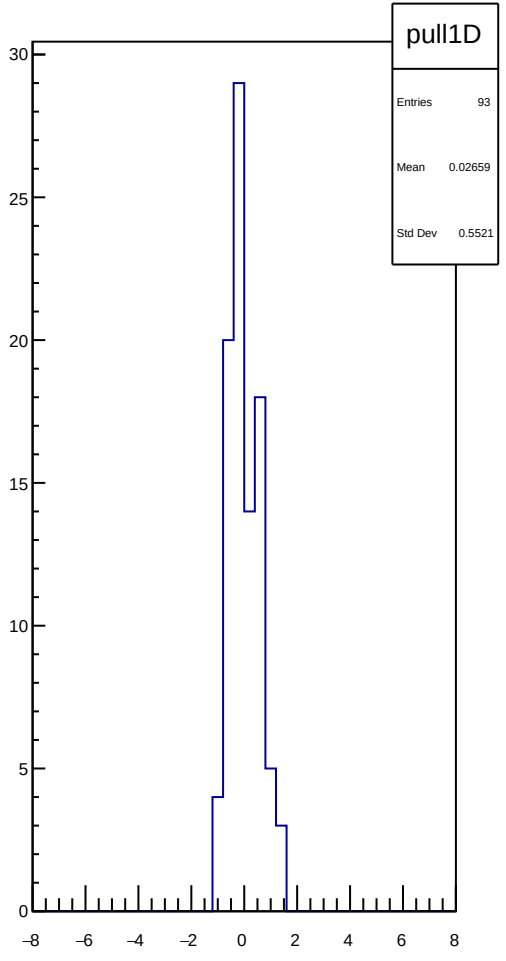

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 7.365 / 92
p0 −157.5 ± 12.17
pull
Entries 93
Mean 151.2
Std Dev 0
pull1D
Entries 93
Mean 0.004703
Std Dev 0.2814

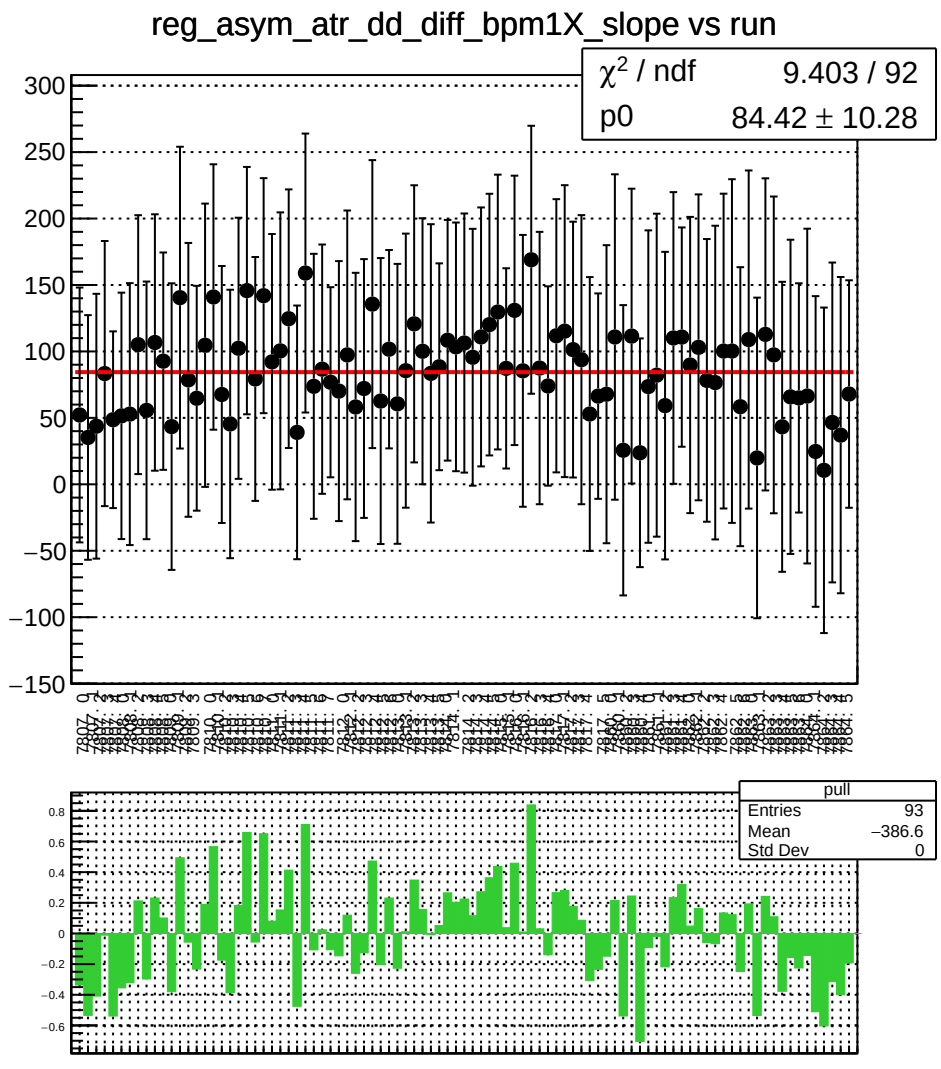

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.177 / 92
p0 65.07 ± 12.35
300
200
100
0
−100
−200
pull
Entries 93
Mean 308.7
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 93
Mean −0.0102
Std Dev 0.2963
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

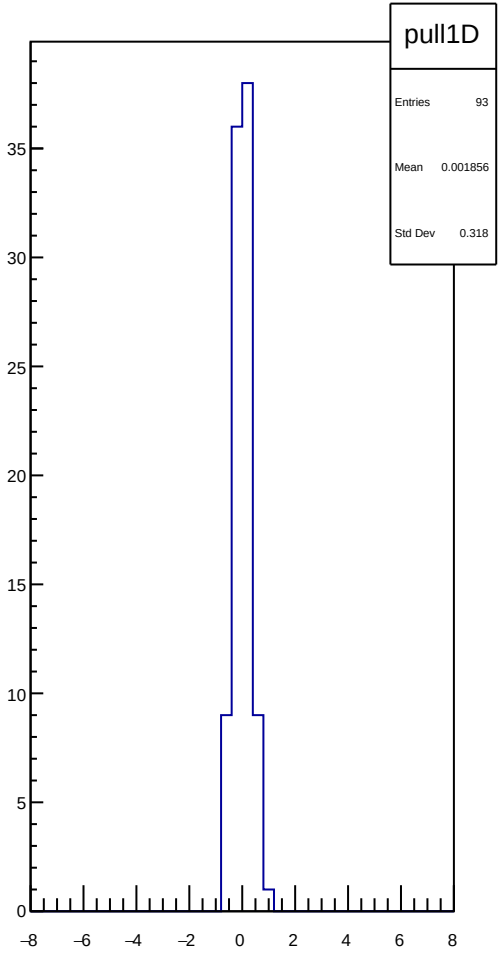

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 7.795 / 92
p0 173.9 ± 11.02
pull
Entries 93
Mean 272.8
Std Dev 0
pull1D
Entries 93
Mean −0.00423
Std Dev 0.2895

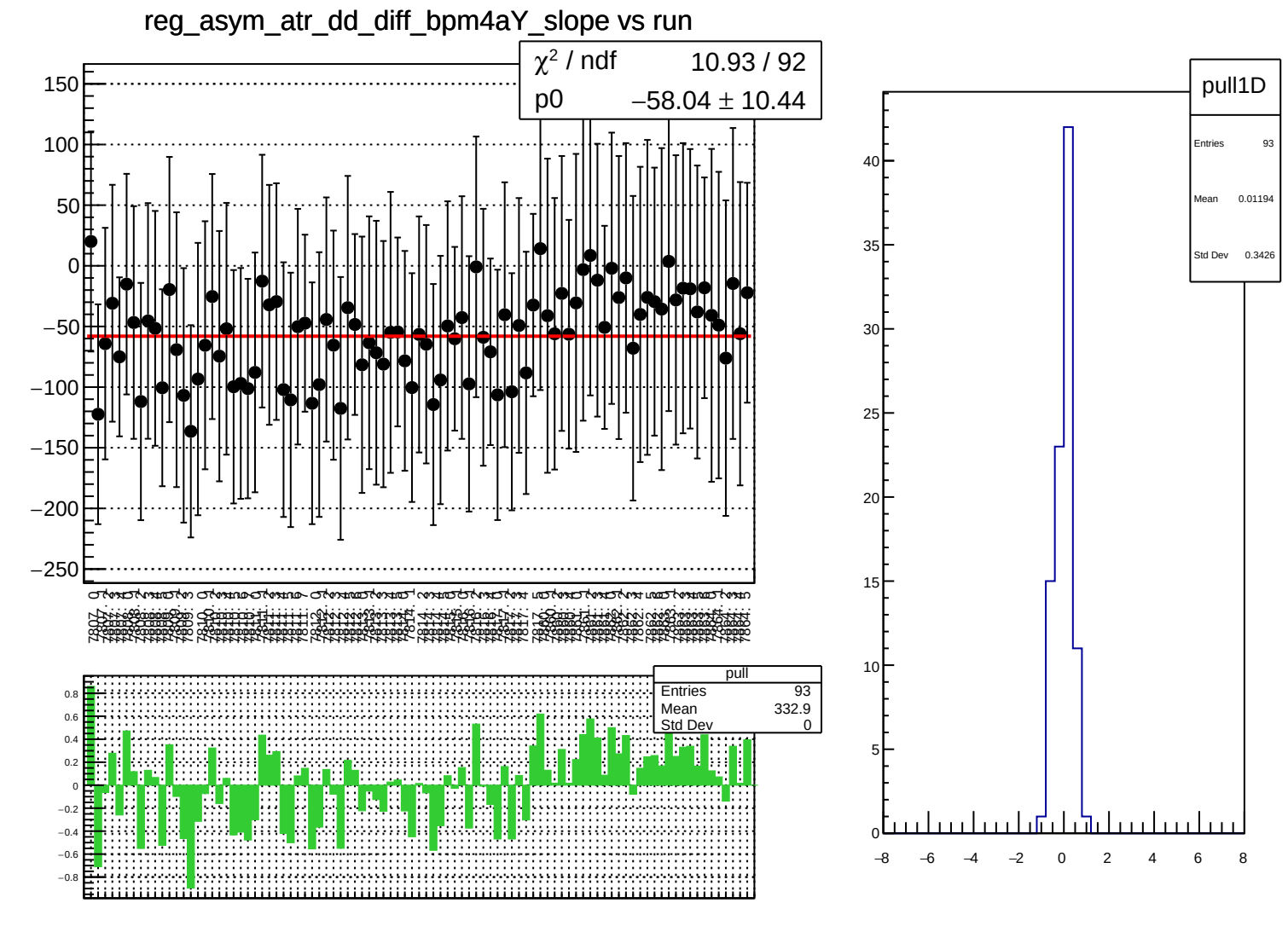

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.789 / 92
p0 0.1185 ± 14.06
pull
Entries 93
Mean 340.5
Std Dev 0
pull1D
Entries 93
Mean 0.005835
Std Dev 0.2701

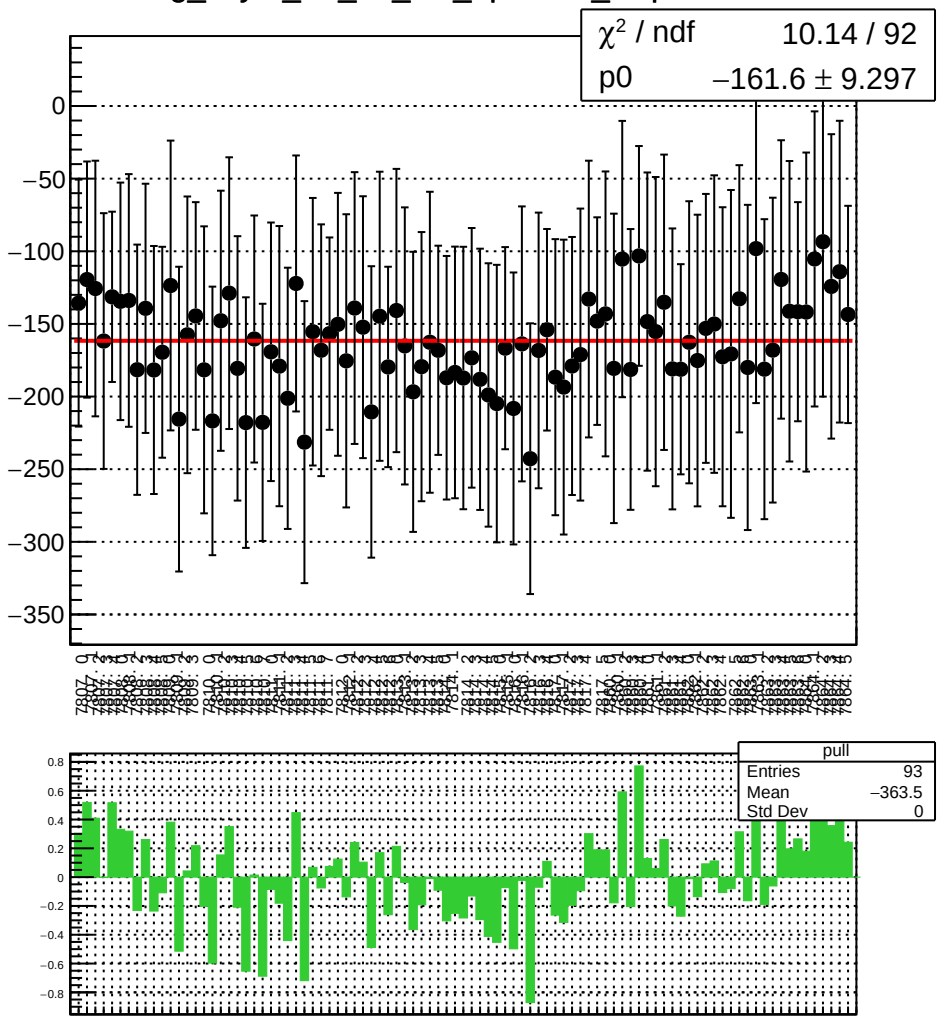

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 28.42 / 92
p0 −178.6 ± 0.4082
−165
−170
−175
−180
−185
pull
Entries 93
Mean 78.88
Std Dev 76.14
1
0.5
0
−0.5
−1

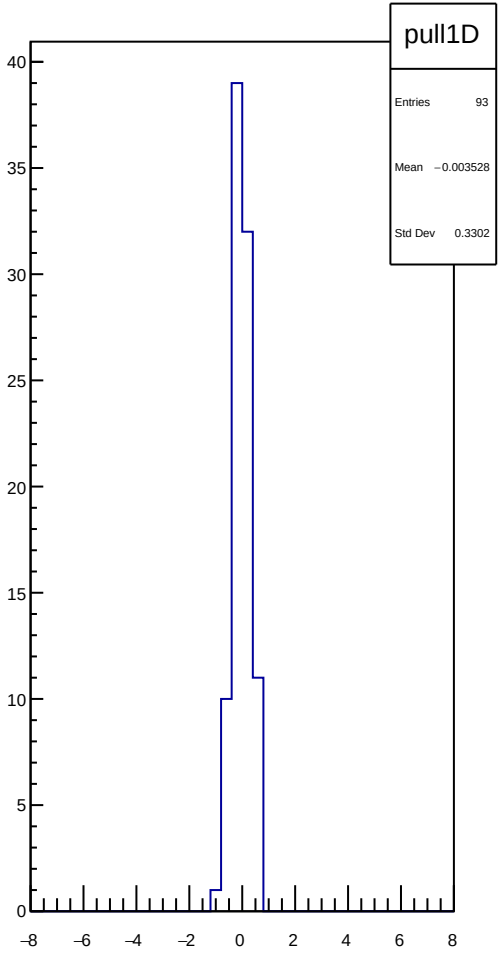

pull1D
Entries 93
Mean 0.02659
Std Dev 0.5521
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

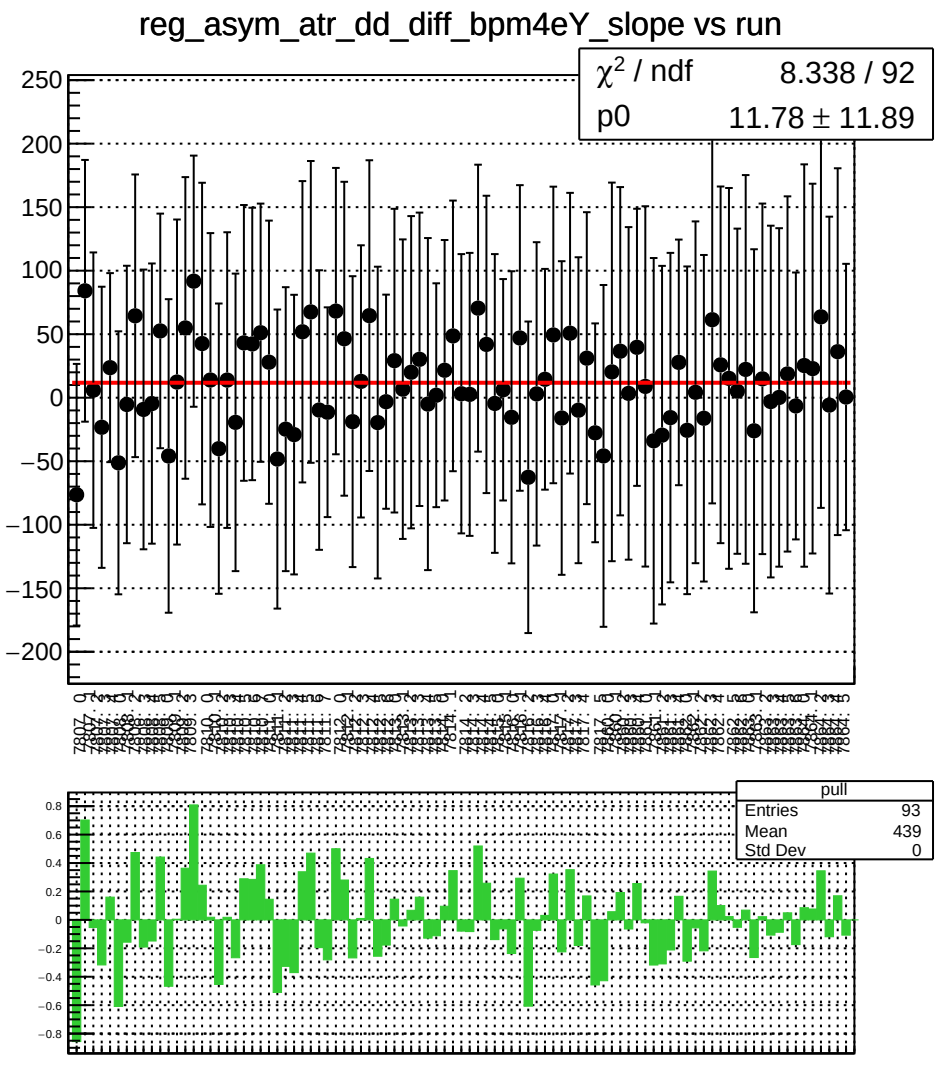

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ^2 / ndf 9.403 / 92
p0 84.42 ± 10.28
pull
Entries 93
Mean −386.6
Std Dev 0

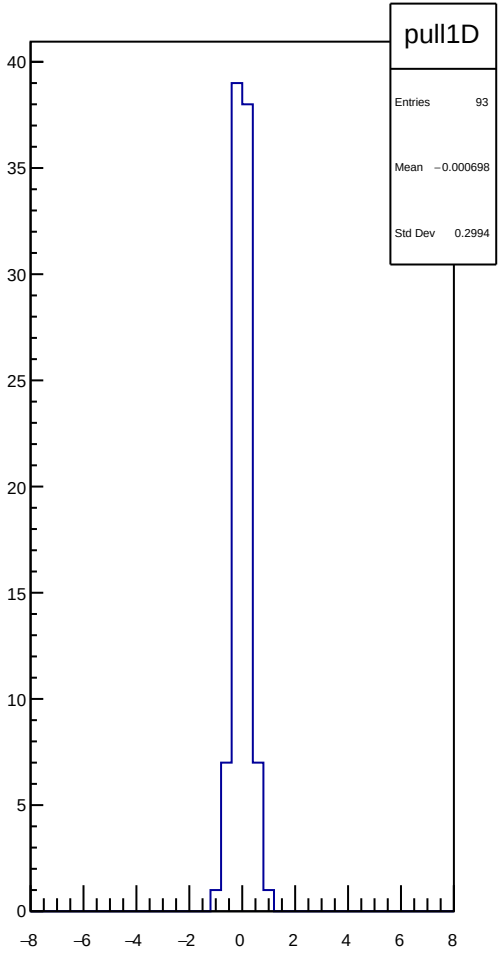

pull1D
Entries 93
Mean 0.001856
Std Dev 0.318

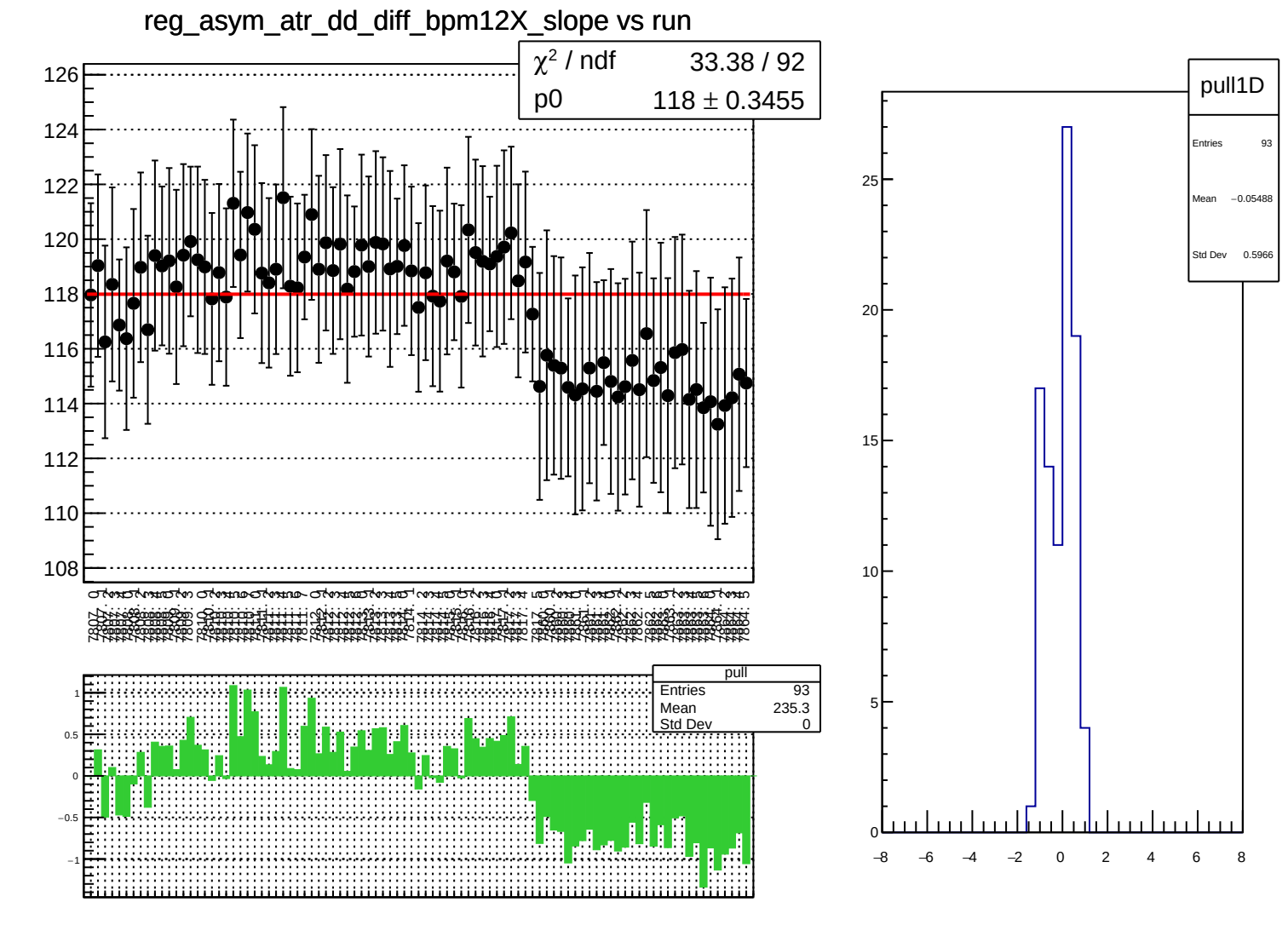

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.93 / 92
p0 −58.04 ± 10.44
pull
Entries 93
Mean 332.9
Std Dev 0
pull1D
Entries 93
Mean 0.01194
Std Dev 0.3426

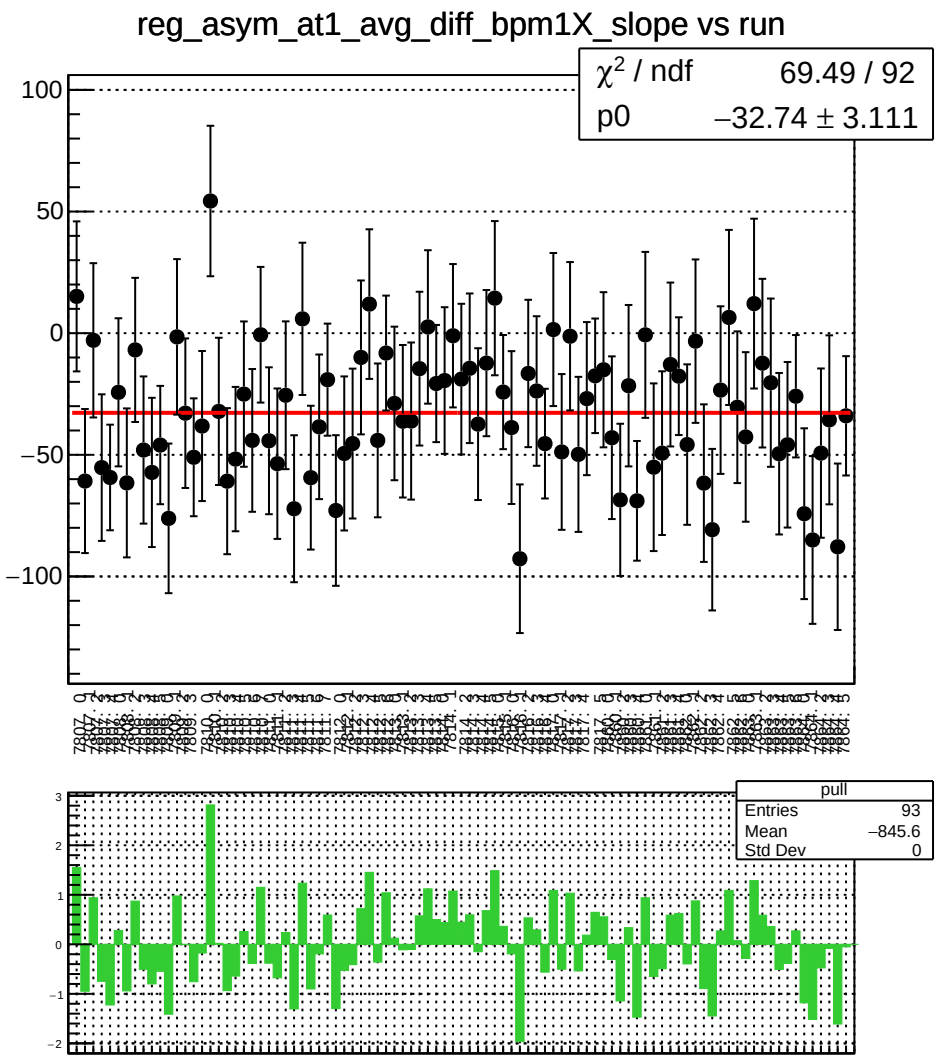

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 10.14 / 92
p0 −161.6 ± 9.297
pull
Entries 93
Mean −363.5
Std Dev 0

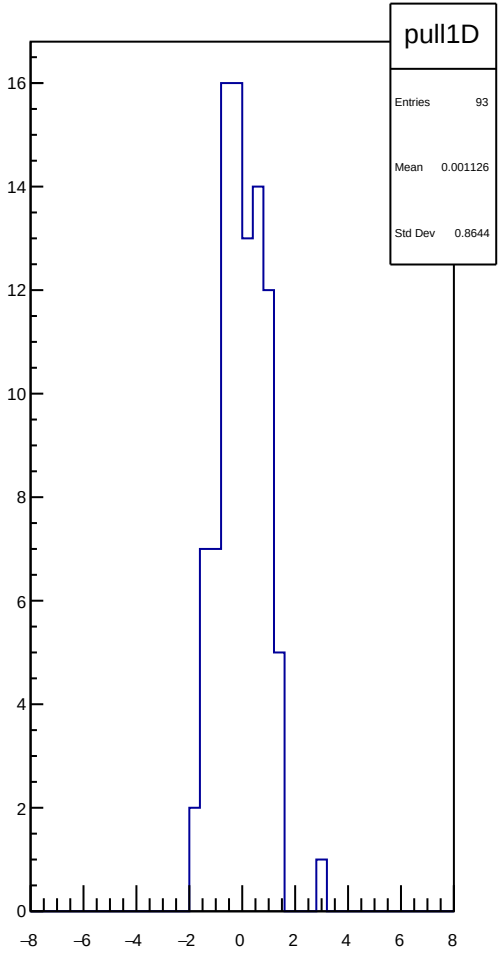

pull1D
Entries 93
Mean −0.003528
Std Dev 0.3302

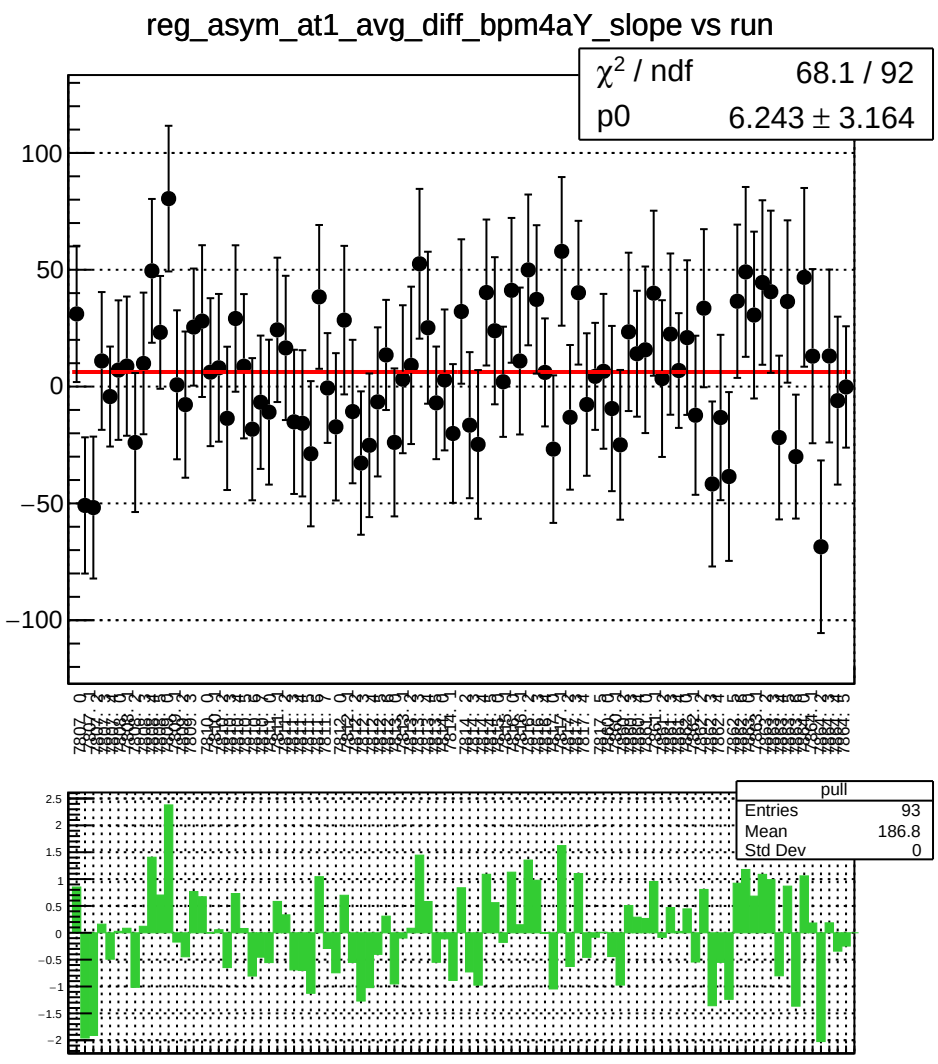

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.338 / 92
p0 11.78 ± 11.89
pull
Entries 93
Mean 439
Std Dev 0

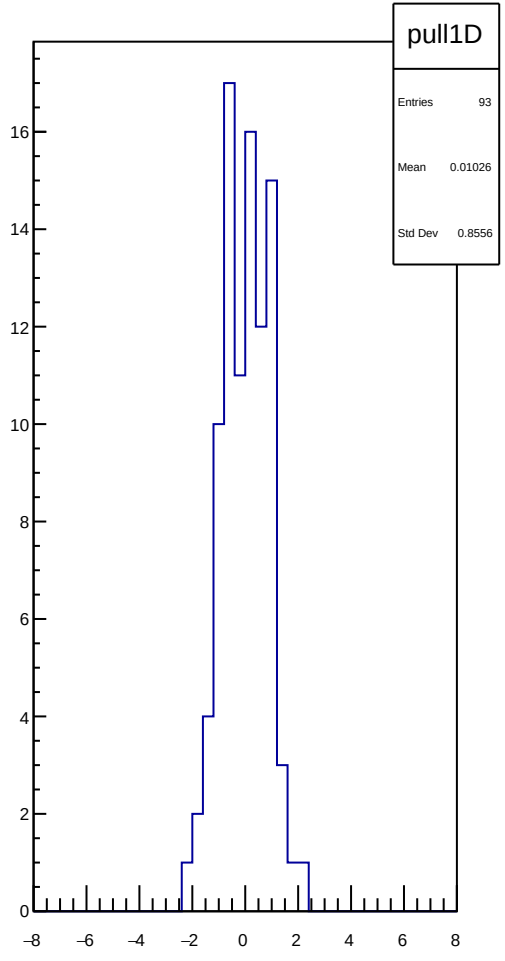

pull1D
Entries 93
Mean −0.000698
Std Dev 0.2994

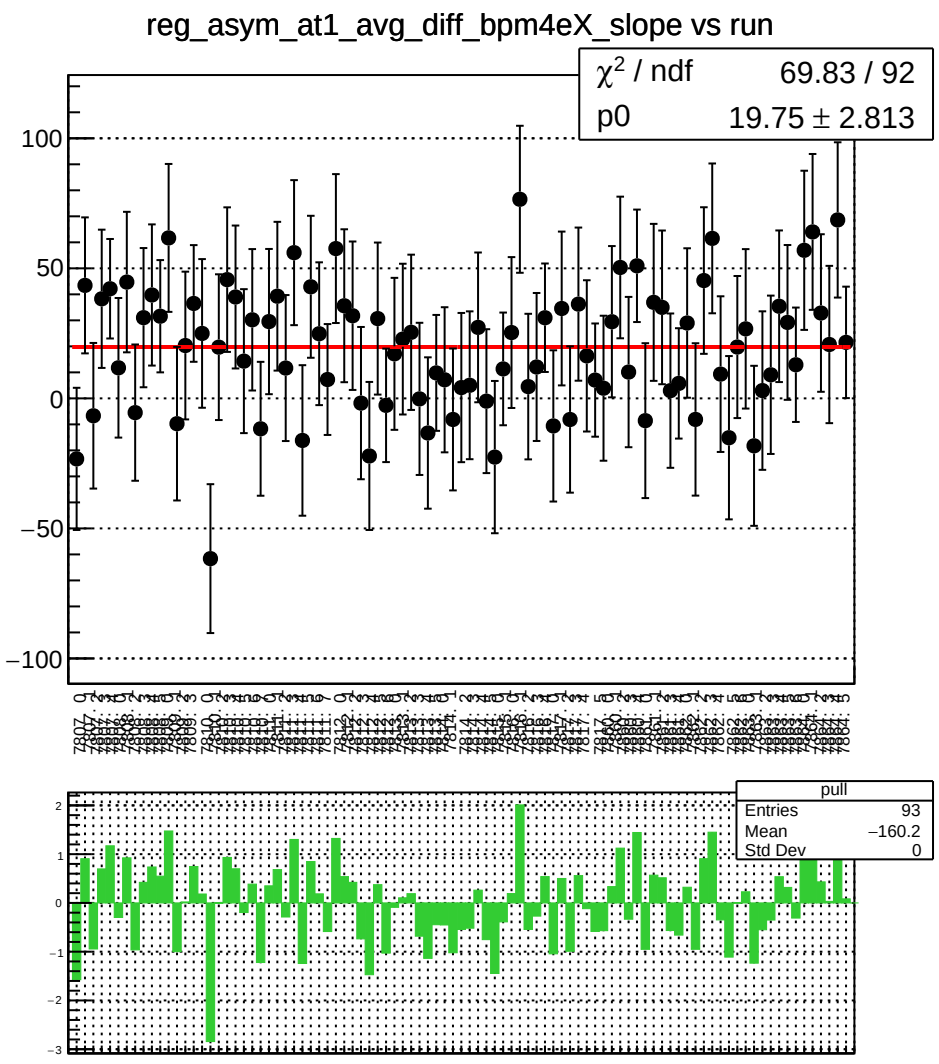

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 33.38 / 92
p0 118 ± 0.3455
pull
Entries 93
Mean 235.3
Std Dev 0
pull1D
Entries 93
Mean −0.05488
Std Dev 0.5966

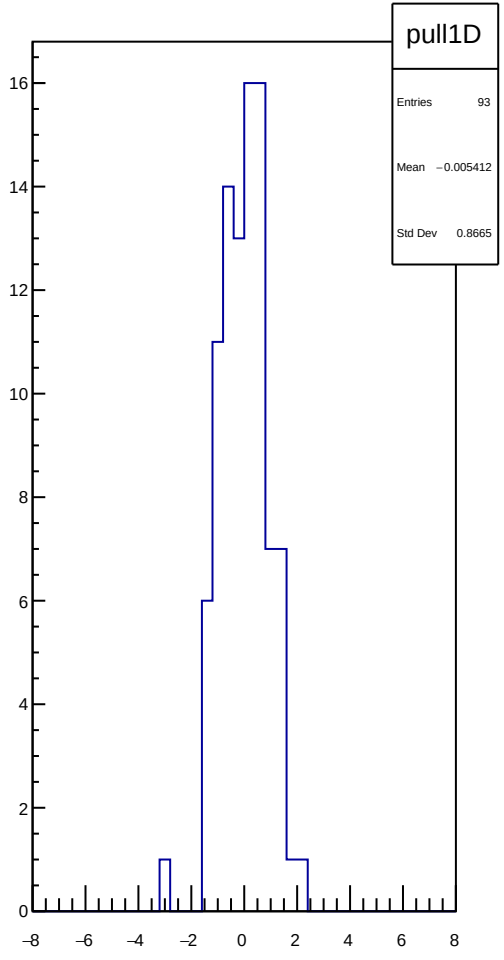

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ^2 / ndf 69.49 / 92
p0 −32.74 ± 3.111
pull
Entries 93
Mean −845.6
Std Dev 0

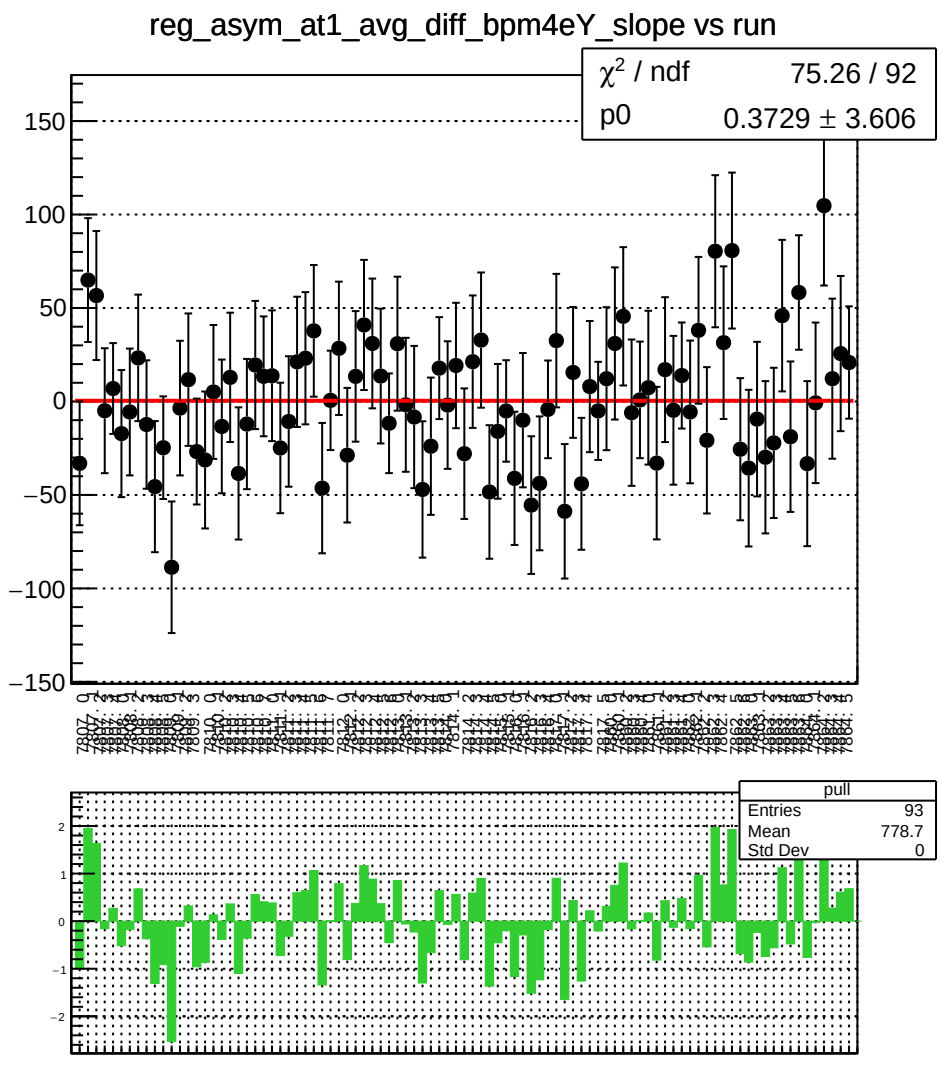

pull1D
Entries 93
Mean 0.001126
Std Dev 0.8644

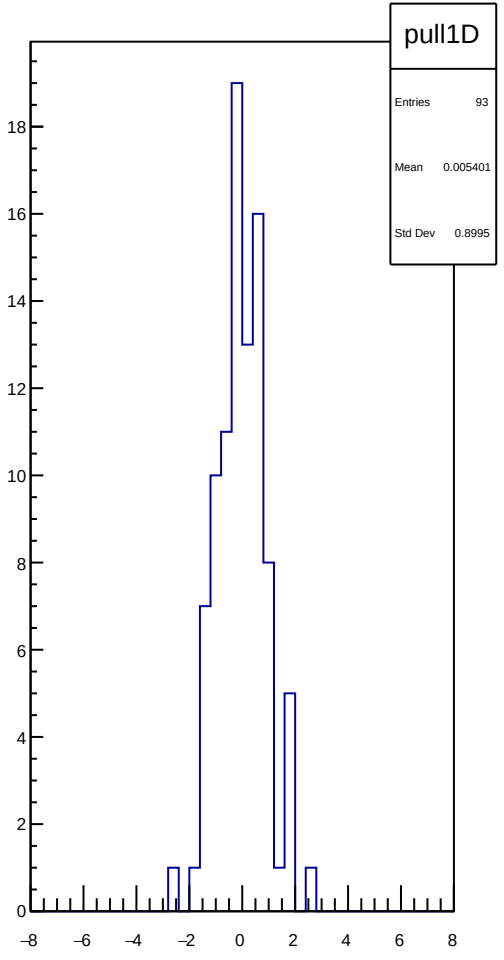

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 68.1 / 92
p0 6.243 ± 3.164
100
50
0
−50
−100
pull
Entries 93
Mean 186.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

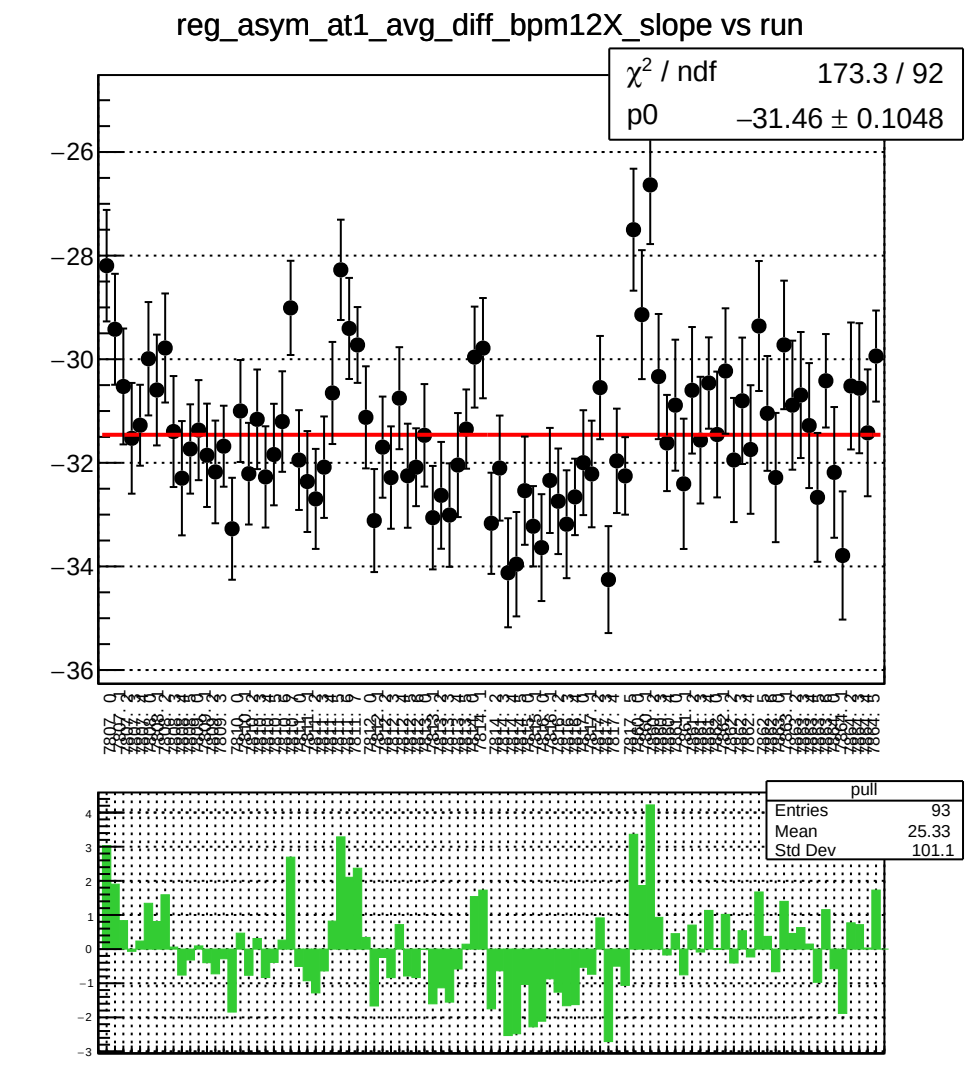

pull1D
Entries 93
Mean 0.01026
Std Dev 0.8556
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

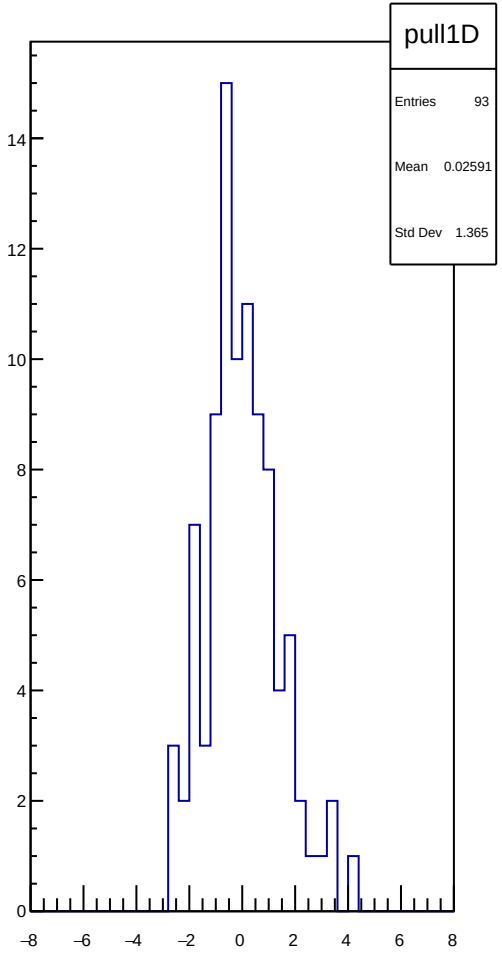

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 69.83 / 92
p0 19.75 ± 2.813
100
50
0
−50
−100
pull
Entries 93
Mean −160.2
Std Dev 0
2
1
0
−1
−2
−3

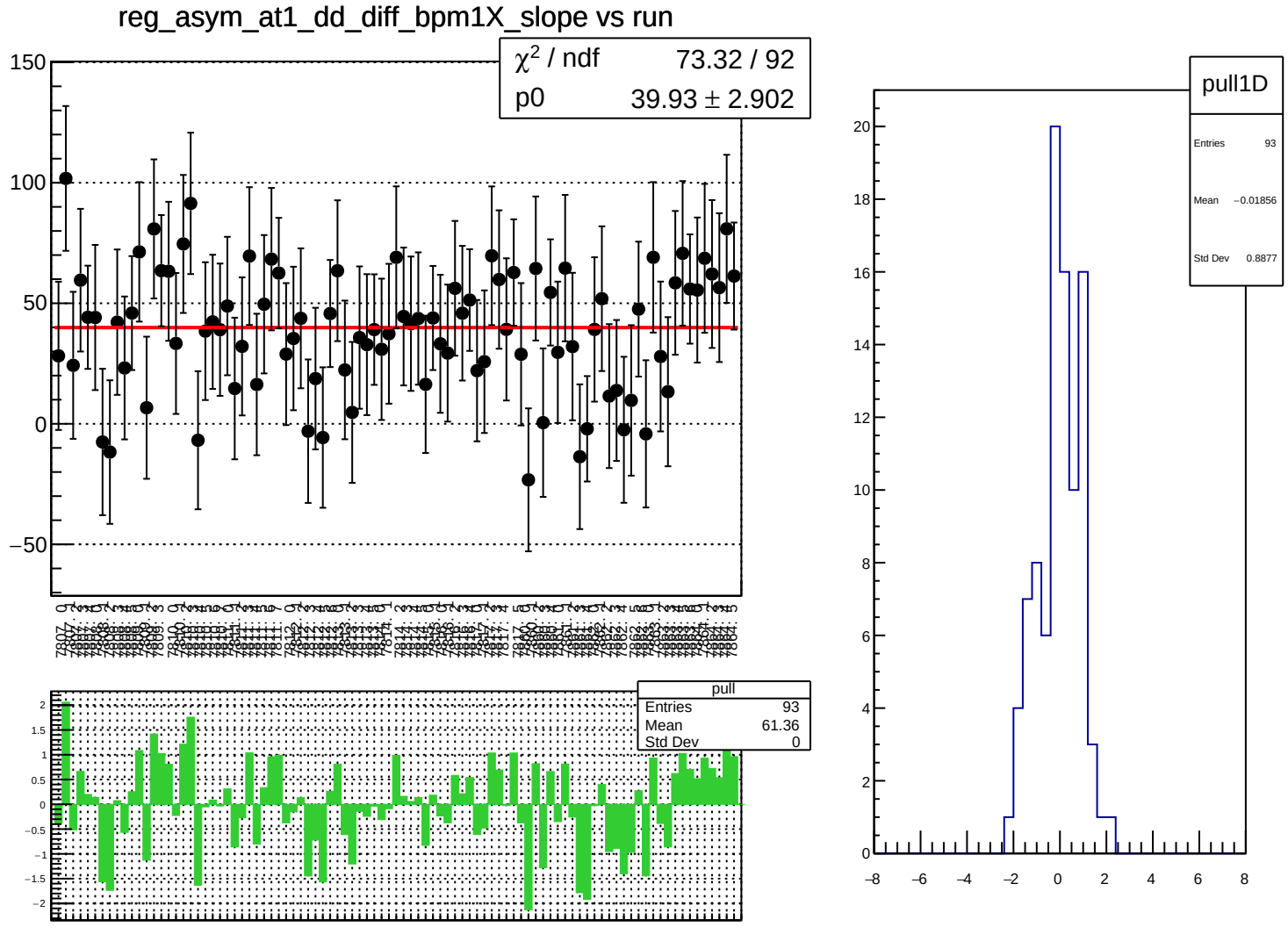

pull1D
Entries 93
Mean −0.005412
Std Dev 0.8665
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

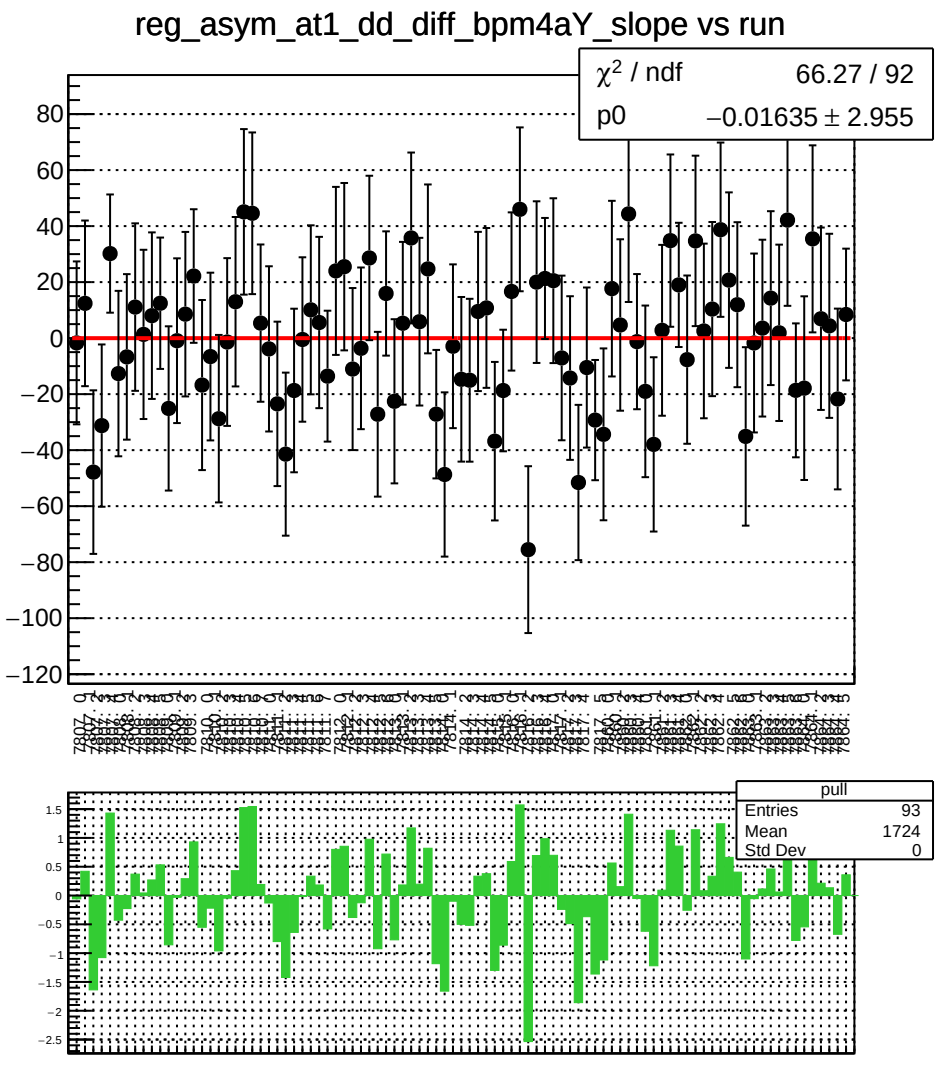

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 75.26 / 92
p0 0.3729 ± 3.606
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean 778.7
Std Dev 0
2
1
0
−1
−2

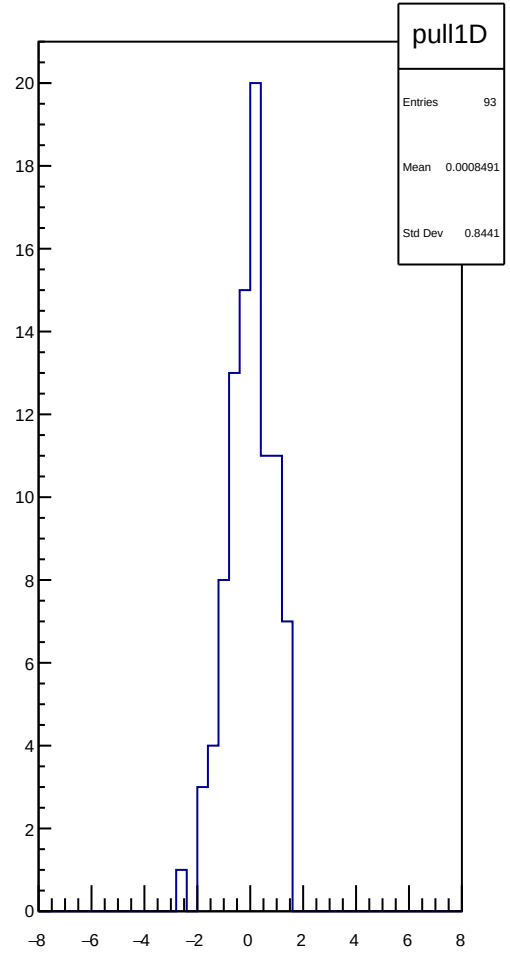

pull1D
Entries 93
Mean 0.005401
Std Dev 0.8995
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

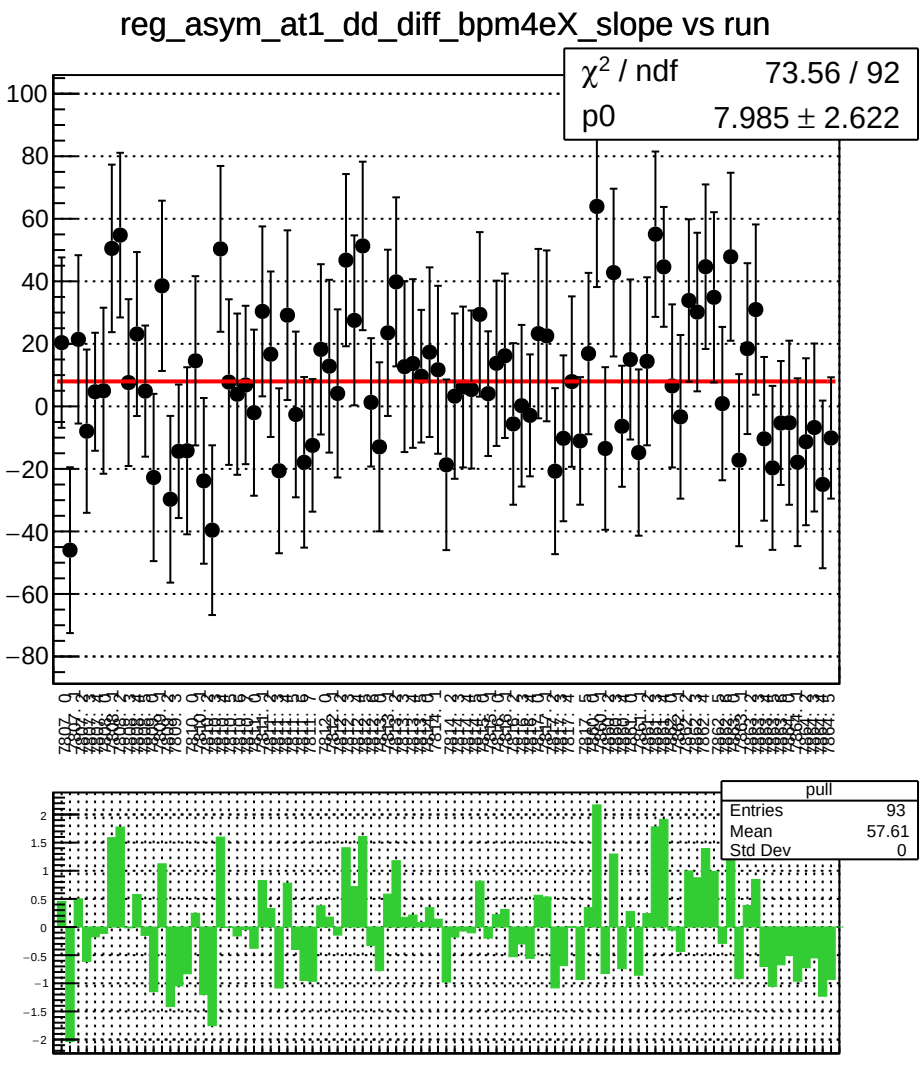

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 173.3 / 92
p0 −31.46 ± 0.1048
pull
Entries 93
Mean 25.33
Std Dev 101.1

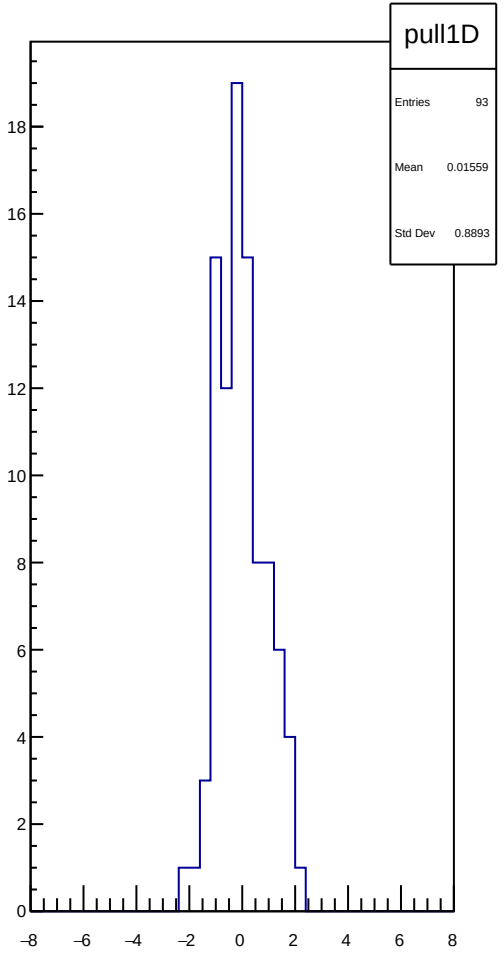

pull1D
Entries 93
Mean 0.02591
Std Dev 1.365

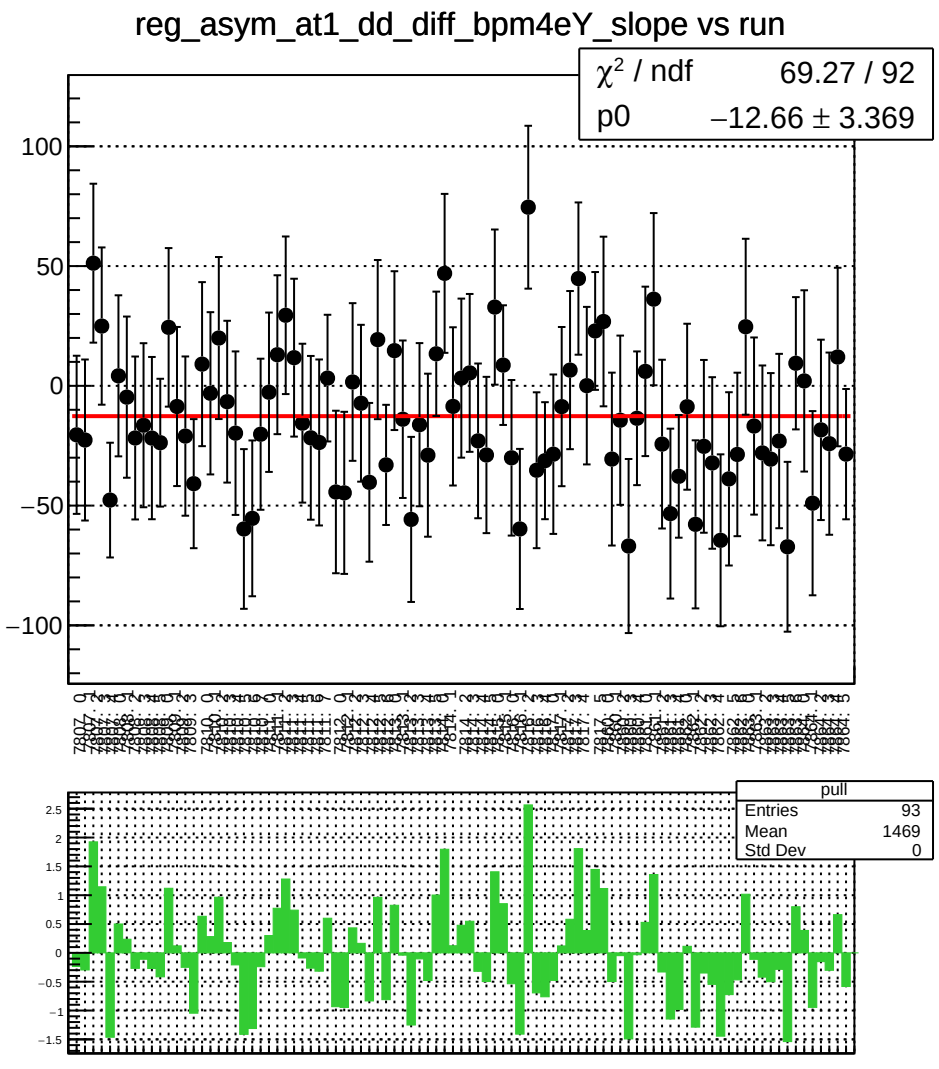

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ^2 / ndf 73.32 / 92
p0 39.93 ± 2.902
150
100
50
0
−50
pull
Entries 93
Mean 61.36
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean −0.01856
Std Dev 0.8877
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

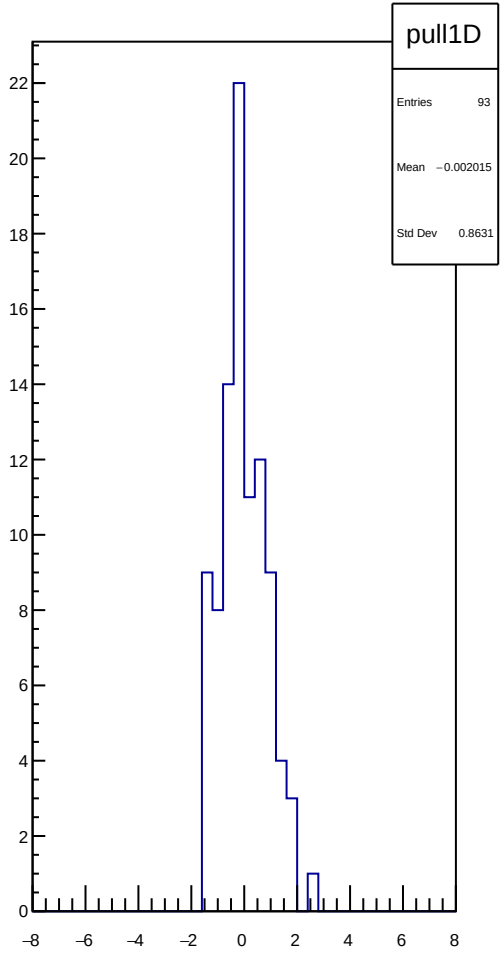

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 66.27 / 92
p0 −0.01635 ± 2.955
pull
Entries 93
Mean 1724
Std Dev 0

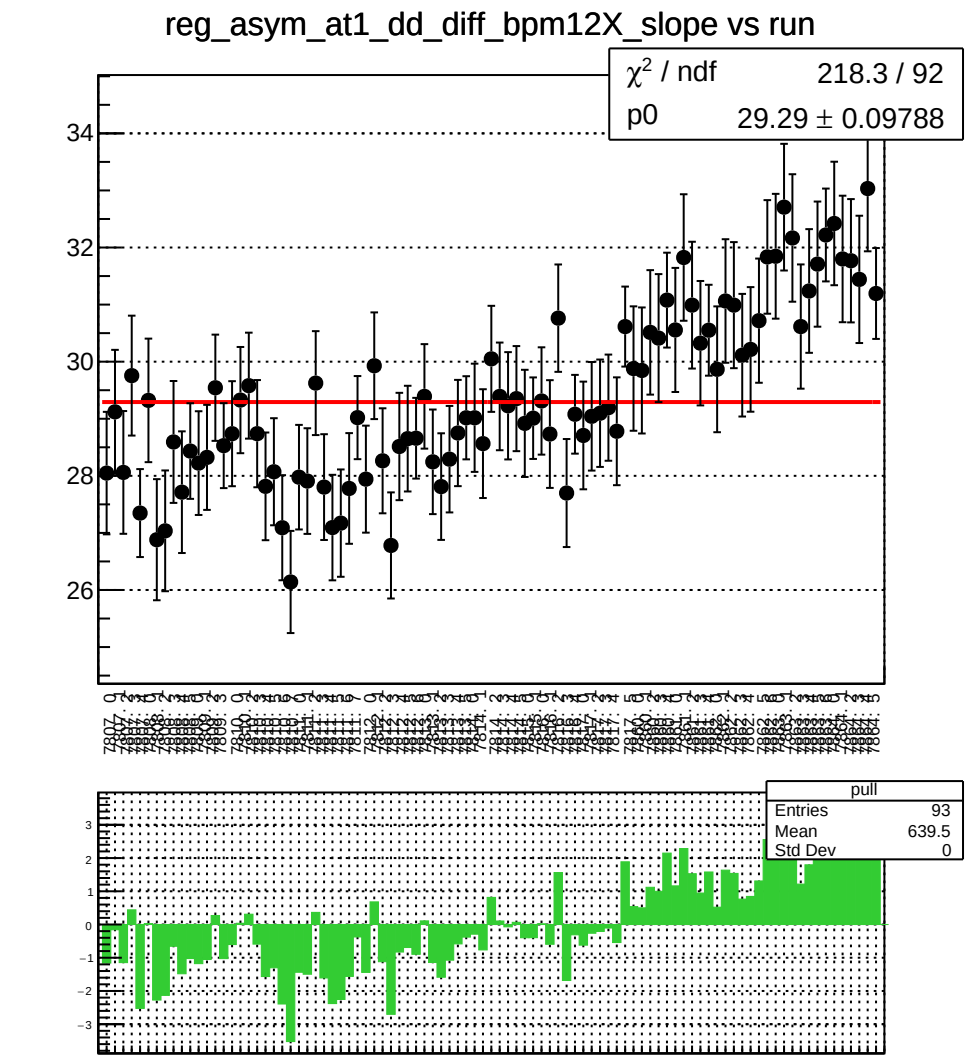

pull1D
Entries 93
Mean 0.0008491
Std Dev 0.8441

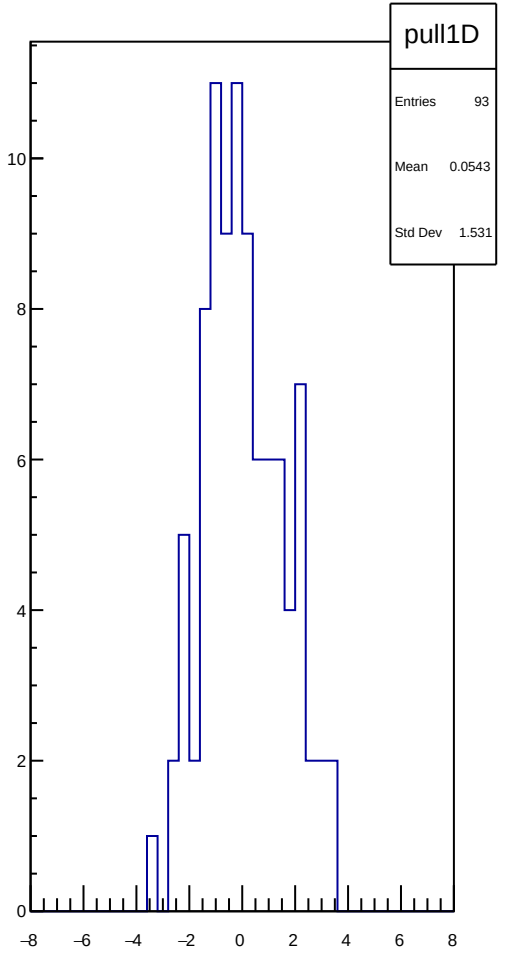

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 73.56 / 92
p0 7.985 ± 2.622
pull
Entries 93
Mean 57.61
Std Dev 0

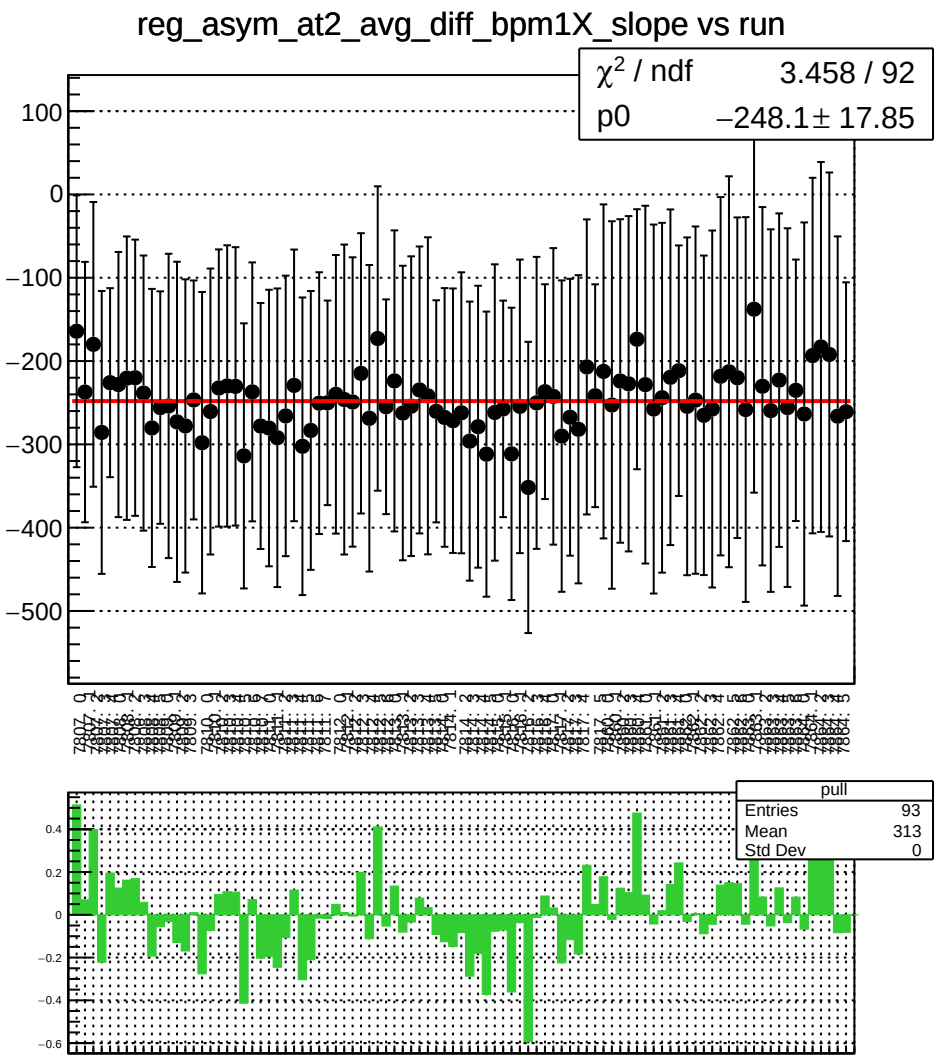

pull1D
Entries 93
Mean 0.01559
Std Dev 0.8893

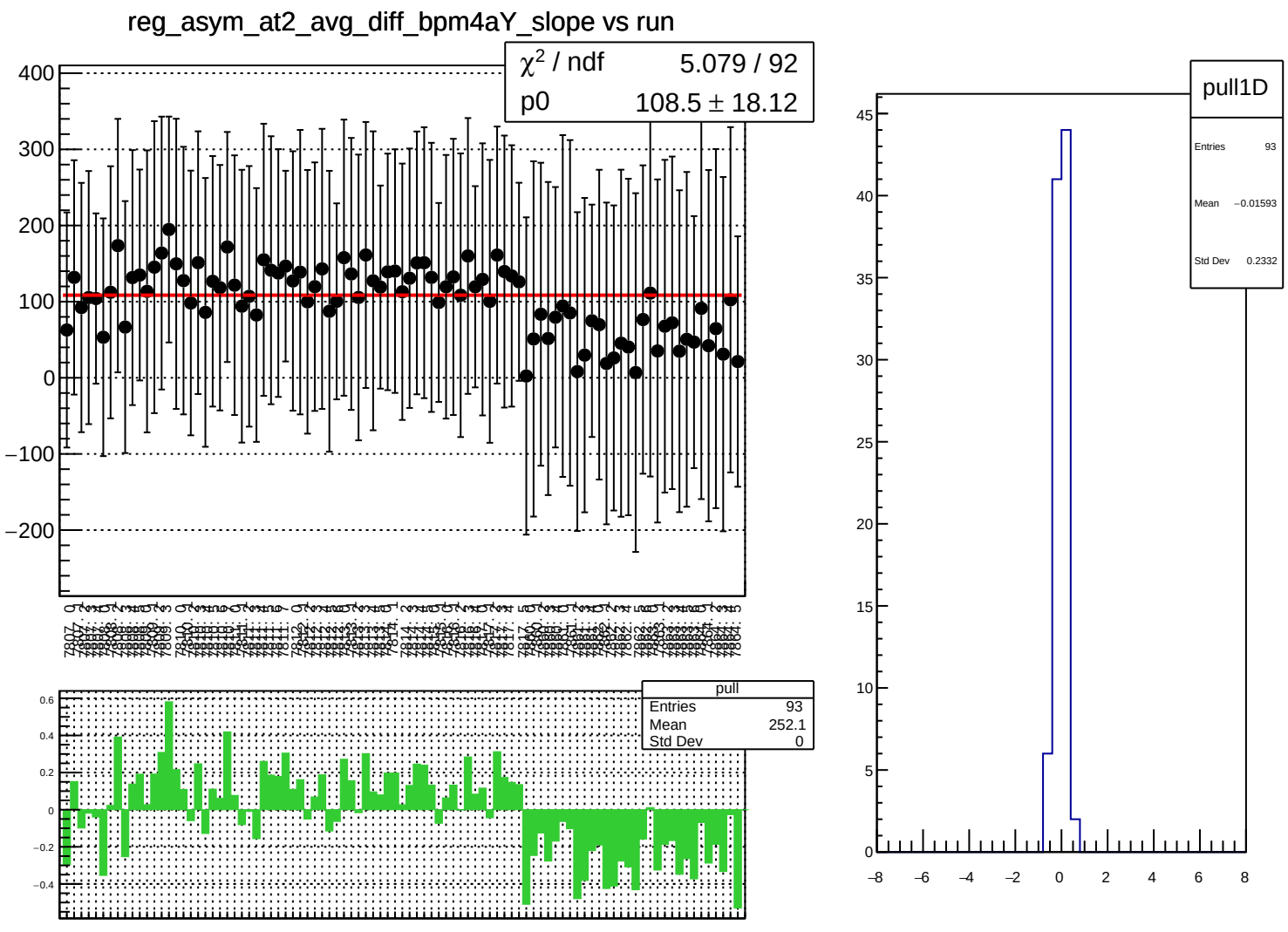

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 69.27 / 92
p0 −12.66 ± 3.369
100
50
0
−50
−100
pull
Entries 93
Mean 1469
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

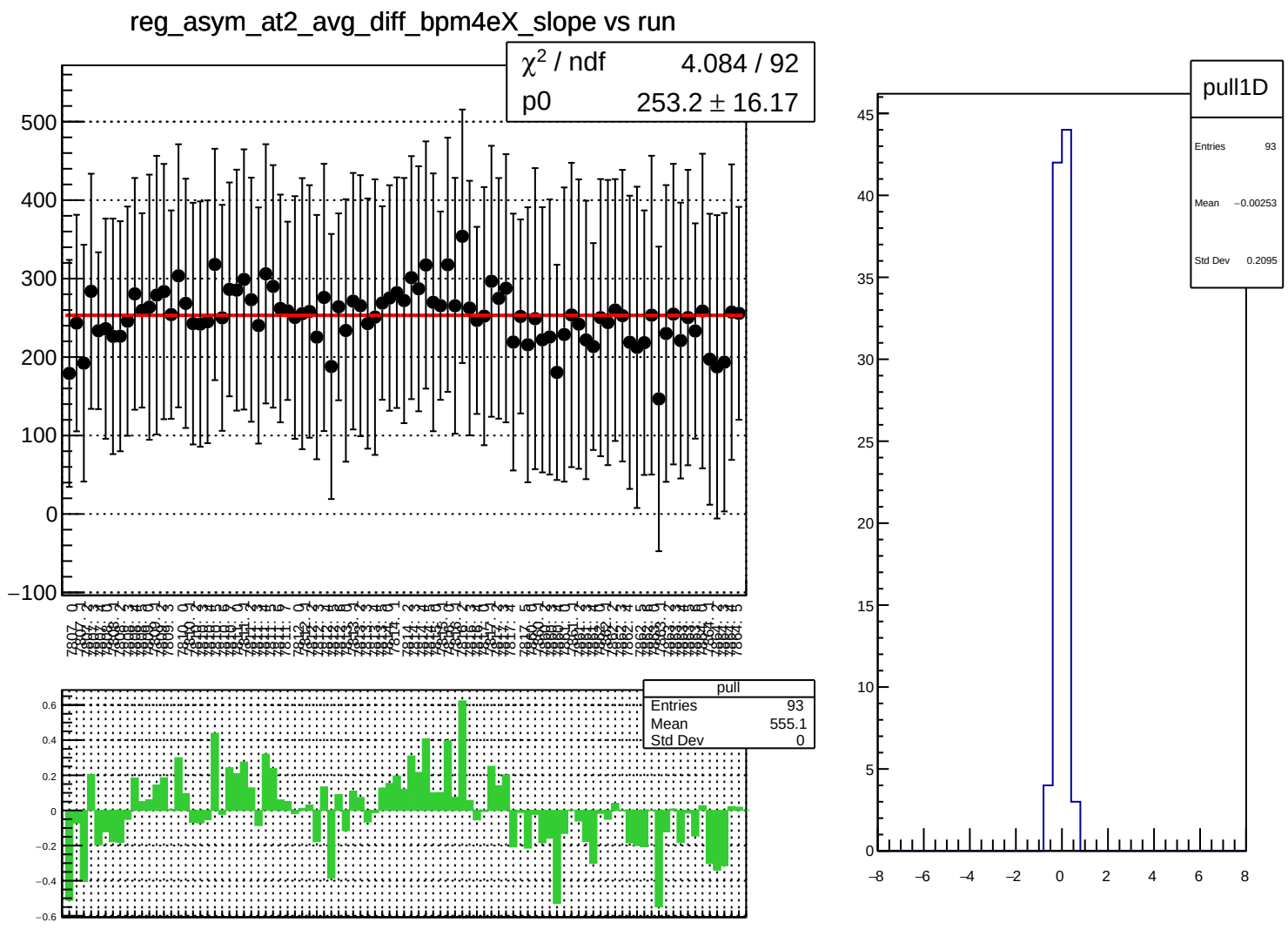

pull1D
Entries 93
Mean −0.002015
Std Dev 0.8631
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

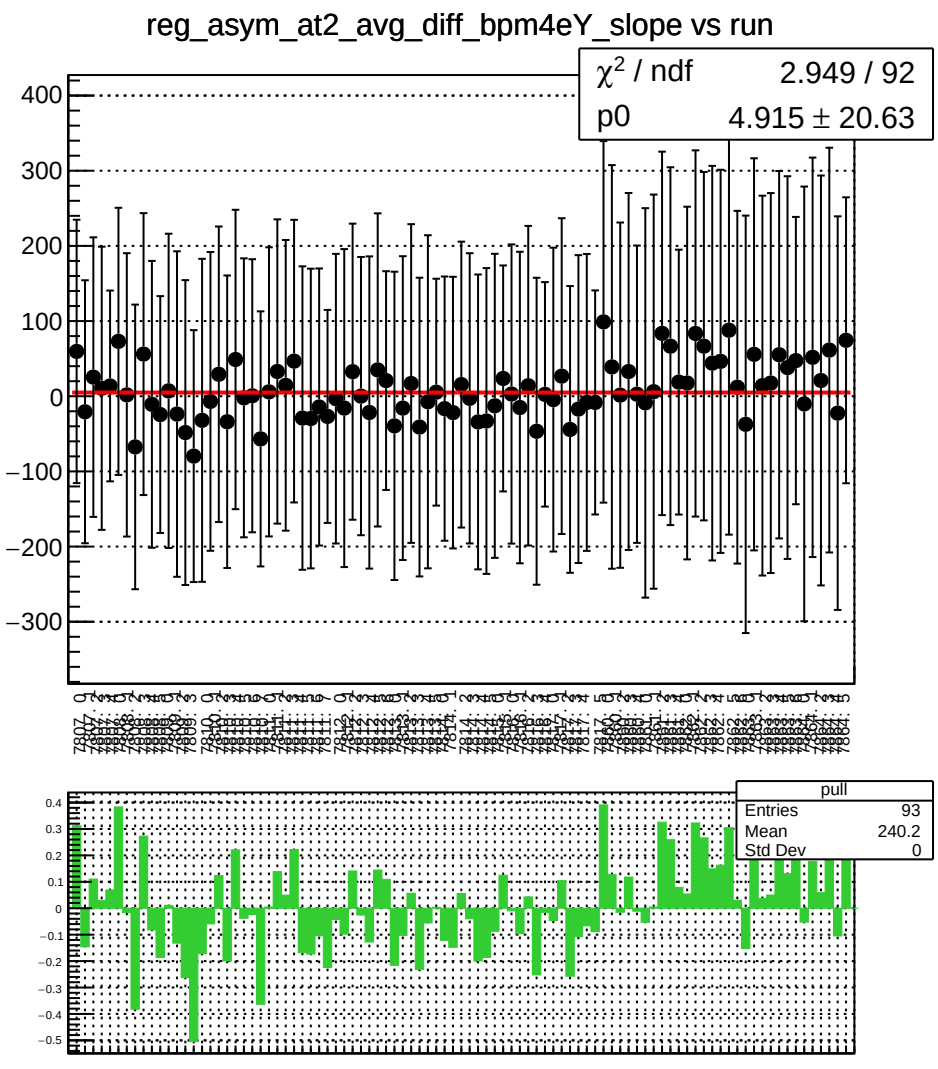

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 218.3 / 92
p0 29.29 ± 0.09788
34
32
30
28
26
pull
Entries 93
Mean 639.5
Std Dev 0
3
2
1
0
−1
−2
−3

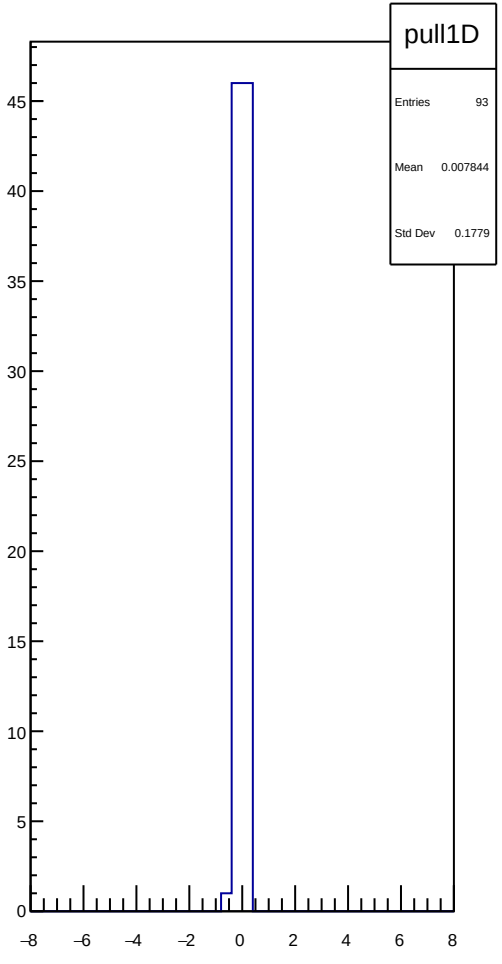

pull1D
Entries 93
Mean 0.0543
Std Dev 1.531
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

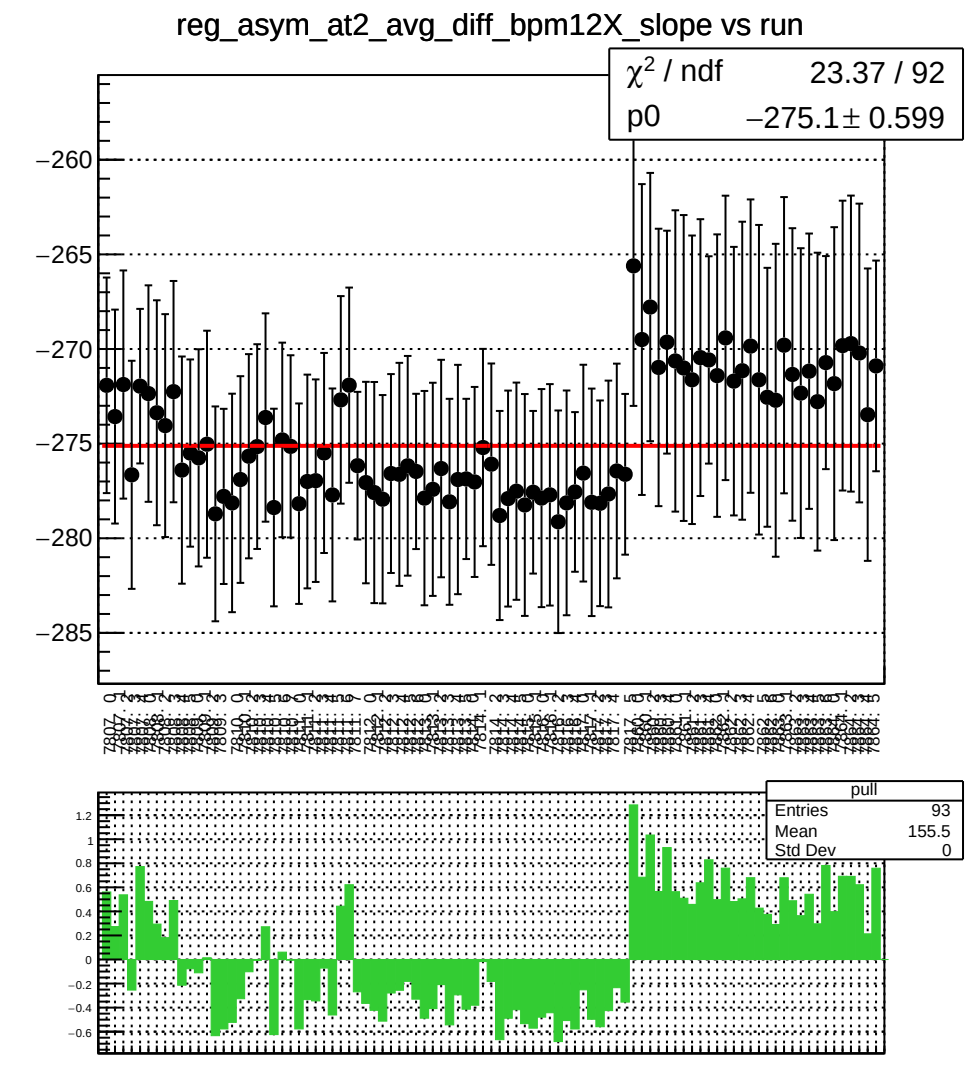

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 3.458 / 92
p0 −248.1± 17.85
pull
Entries 93
Mean 313
Std Dev 0
pull1D
Entries 93
Mean 0.002482
Std Dev 0.1928

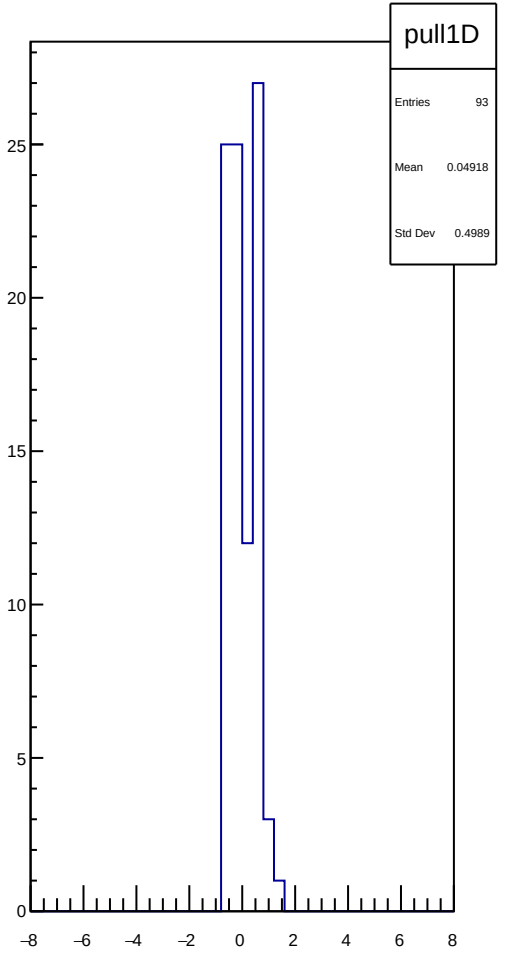

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.079 / 92
p0 108.5 ± 18.12
pull
Entries 93
Mean 252.1
Std Dev 0
pull1D
Entries 93
Mean −0.01593
Std Dev 0.2332

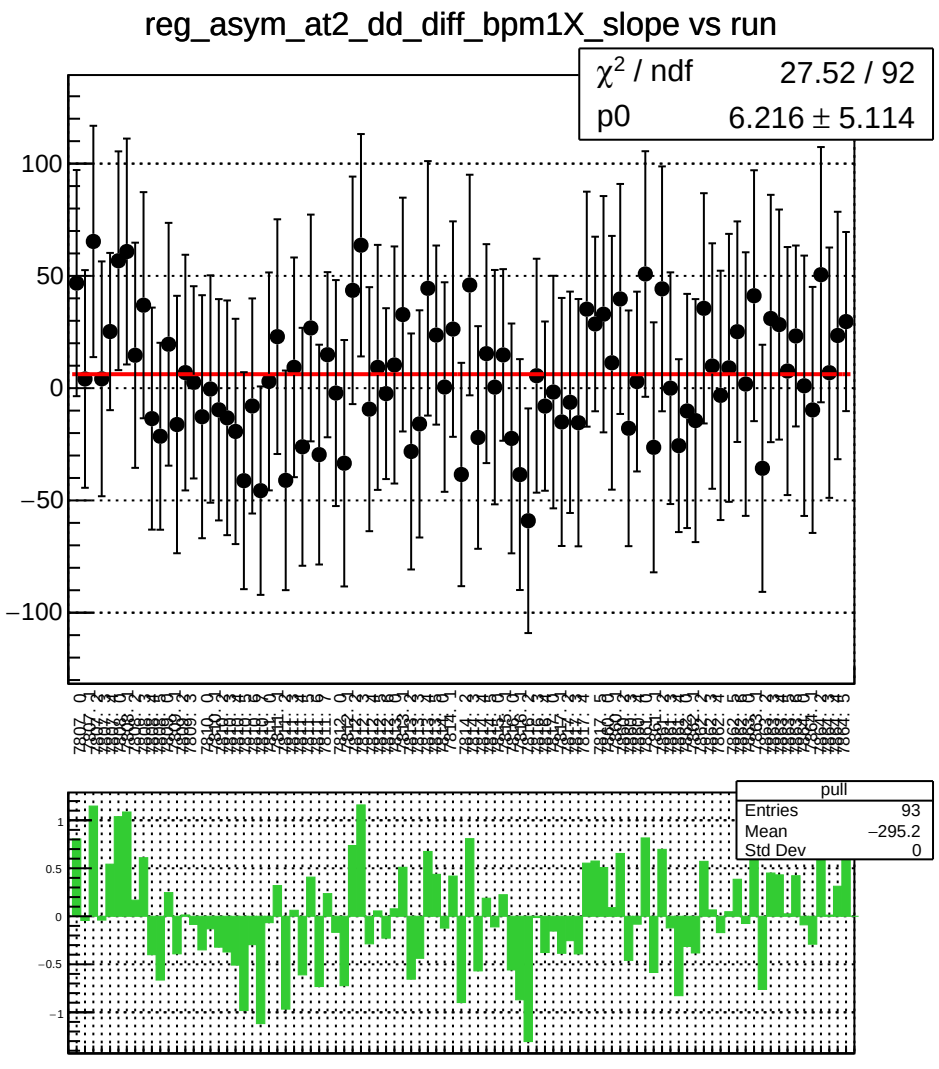

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.084 / 92
p0 253.2 ± 16.17
pull
Entries 93
Mean 555.1
Std Dev 0
pull1D
Entries 93
Mean −0.00253
Std Dev 0.2095

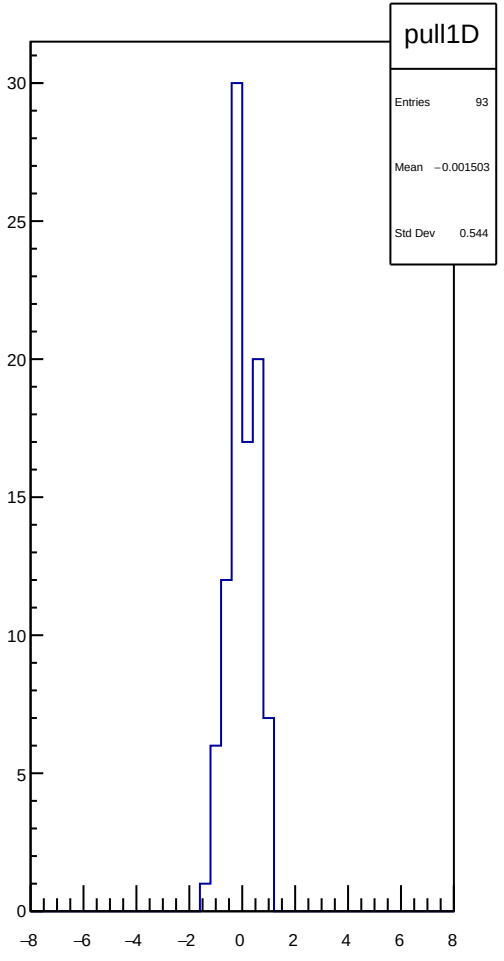

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 2.949 / 92
p0 4.915 ± 20.63
pull
Entries 93
Mean 240.2
Std Dev 0

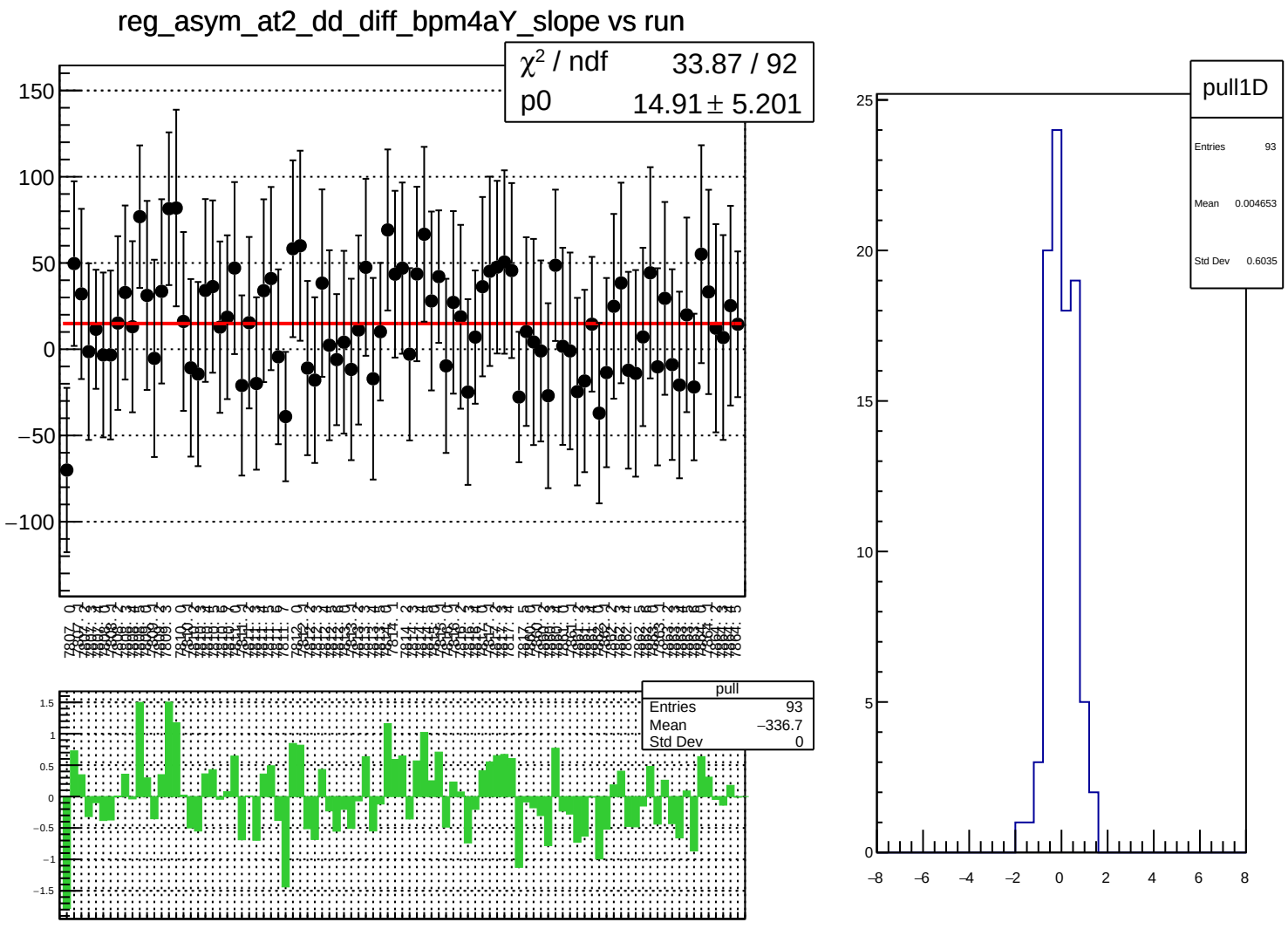

pull1D
Entries 93
Mean 0.007844
Std Dev 0.1779

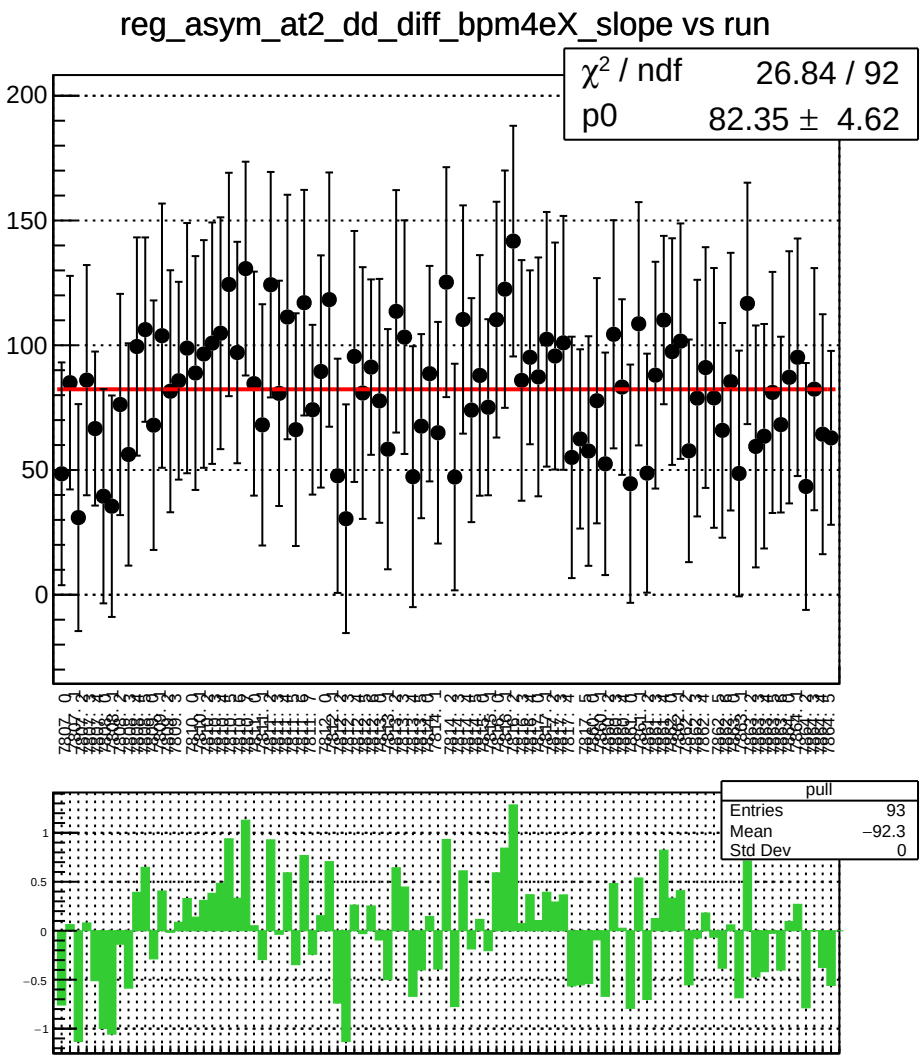

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 23.37 / 92
p0 −275.1 ± 0.599
−260
−265
−270
−275
−280
−285
pull
Entries 93
Mean 155.5
Std Dev 0
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

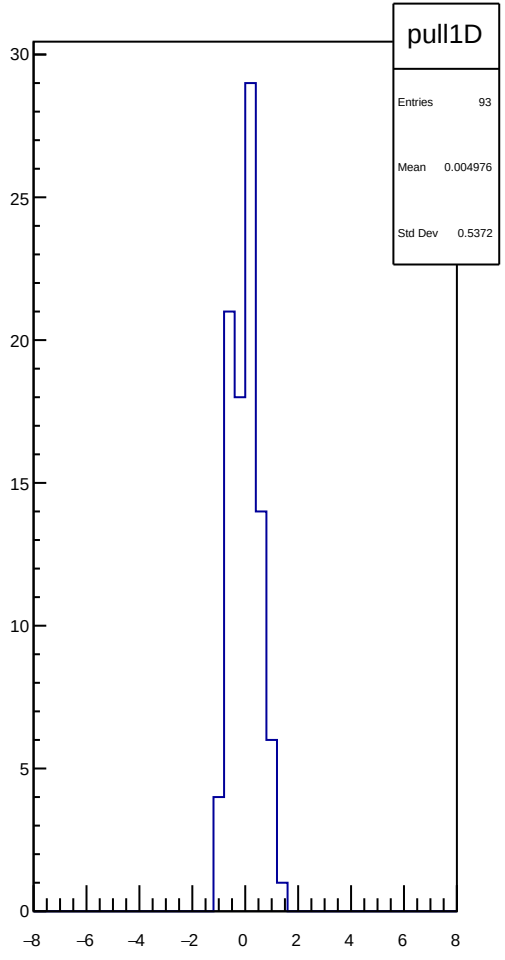

pull1D
Entries 93
Mean 0.04918
Std Dev 0.4989
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

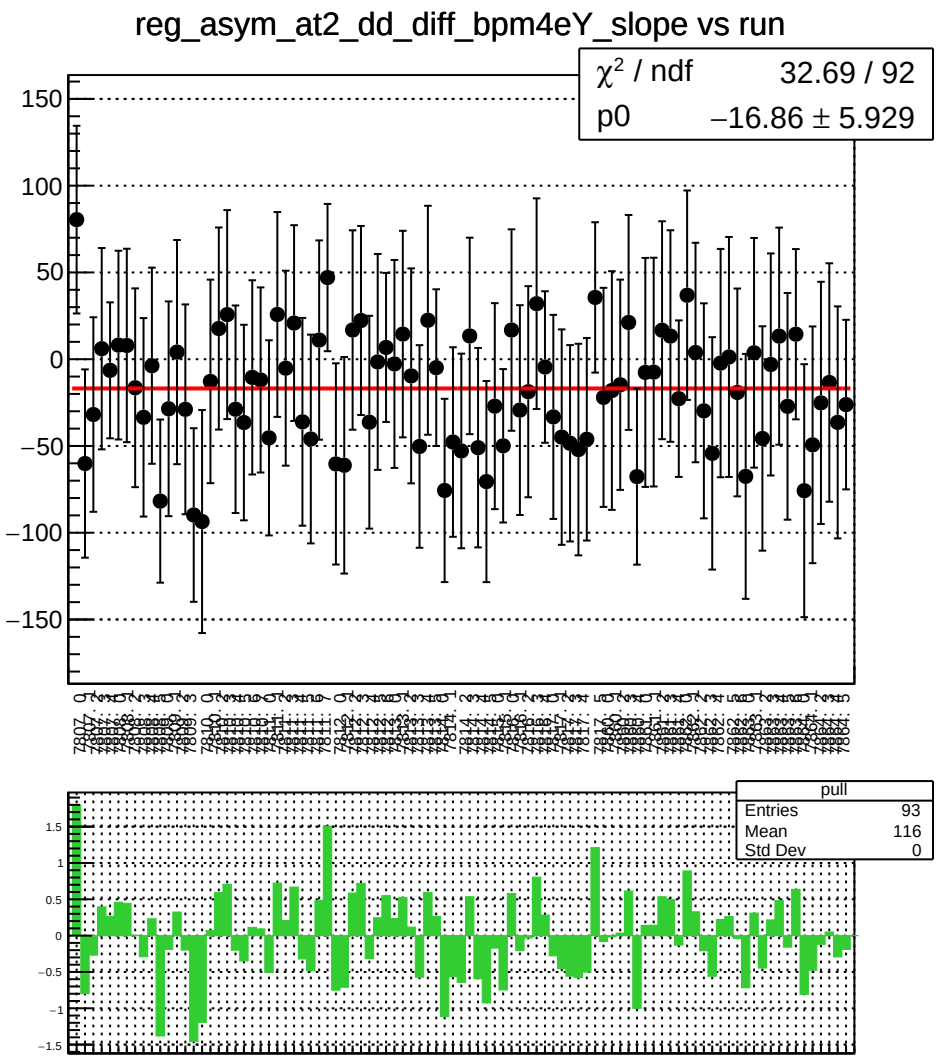

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 27.52 / 92
p0 6.216 ± 5.114
100
50
0
−50
−100
pull
Entries 93
Mean −295.2
Std Dev 0
1
0.5
0
−0.5
−1

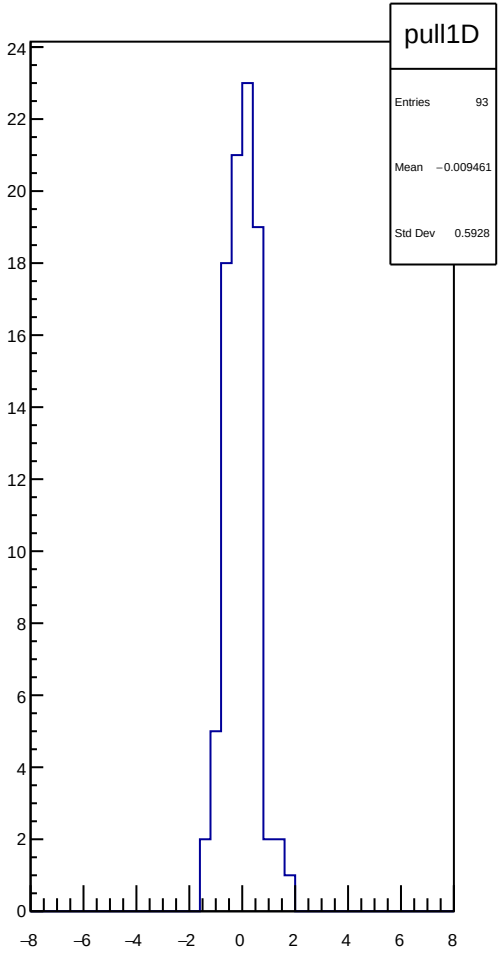

pull1D
Entries 93
Mean −0.001503
Std Dev 0.544
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

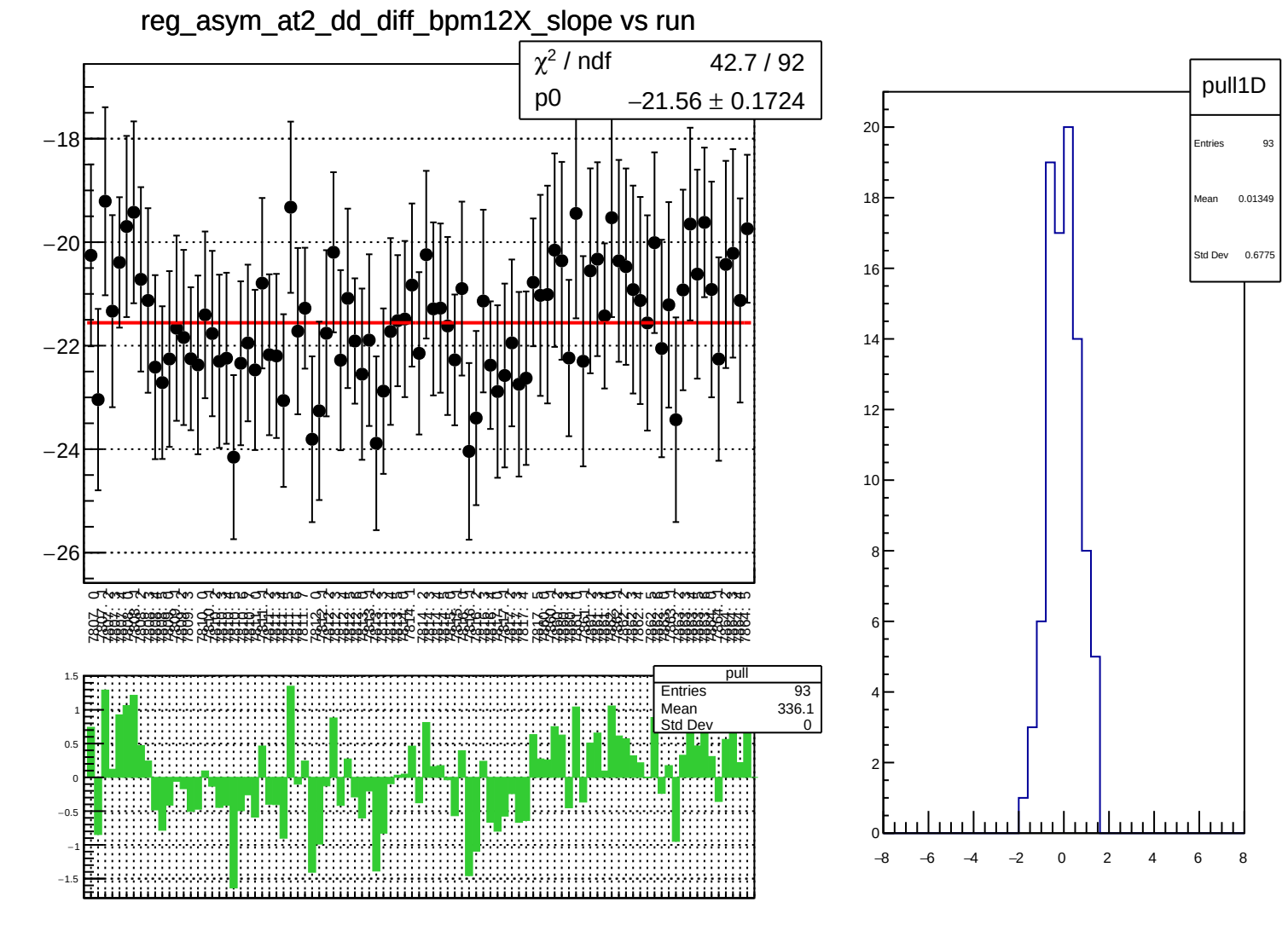

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 33.87 / 92
p0 14.91 ± 5.201
150
100
50
0
−50
−100
pull
Entries 93
Mean −336.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 93
Mean 0.004653
Std Dev 0.6035
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

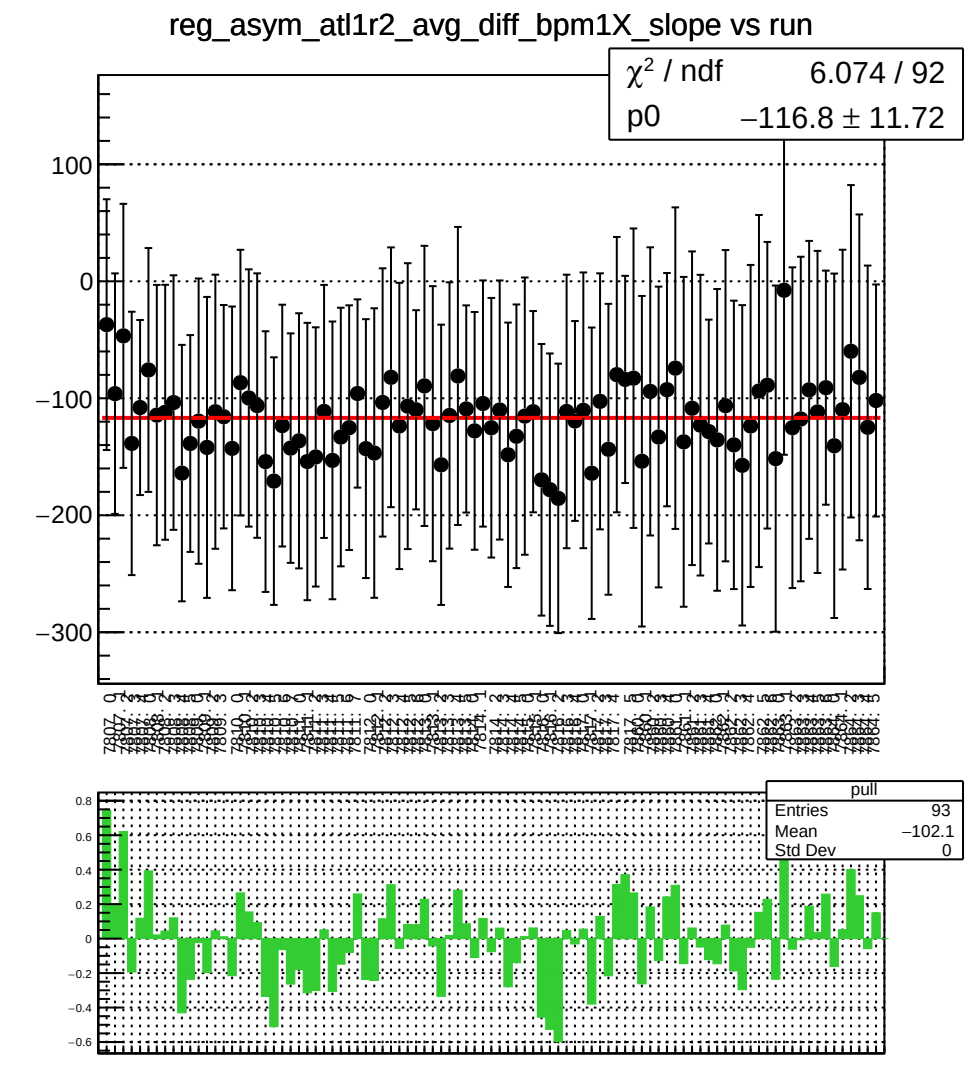

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 26.84 / 92
p0 82.35 ± 4.62
200
150
100
50
0
pull
Entries 93
Mean −92.3
Std Dev 0
1
0.5
0
−0.5
−1

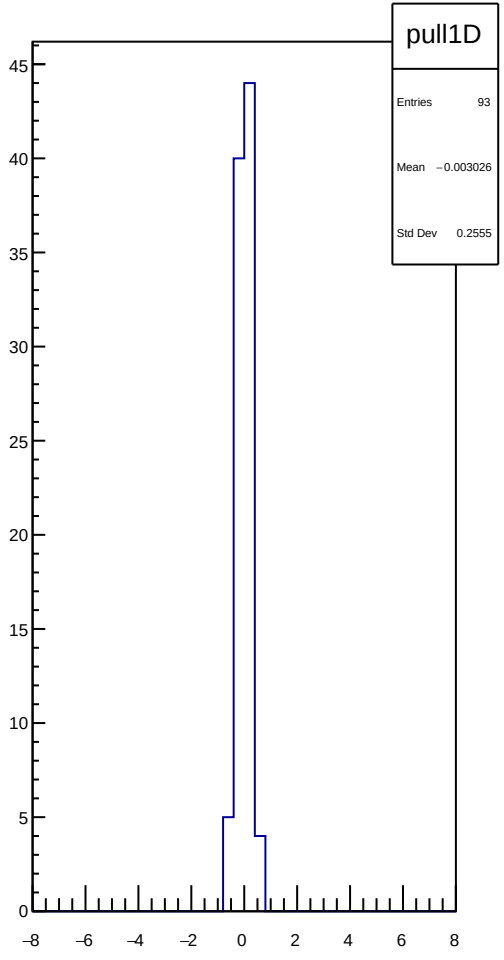

pull1D
Entries 93
Mean 0.004976
Std Dev 0.5372
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

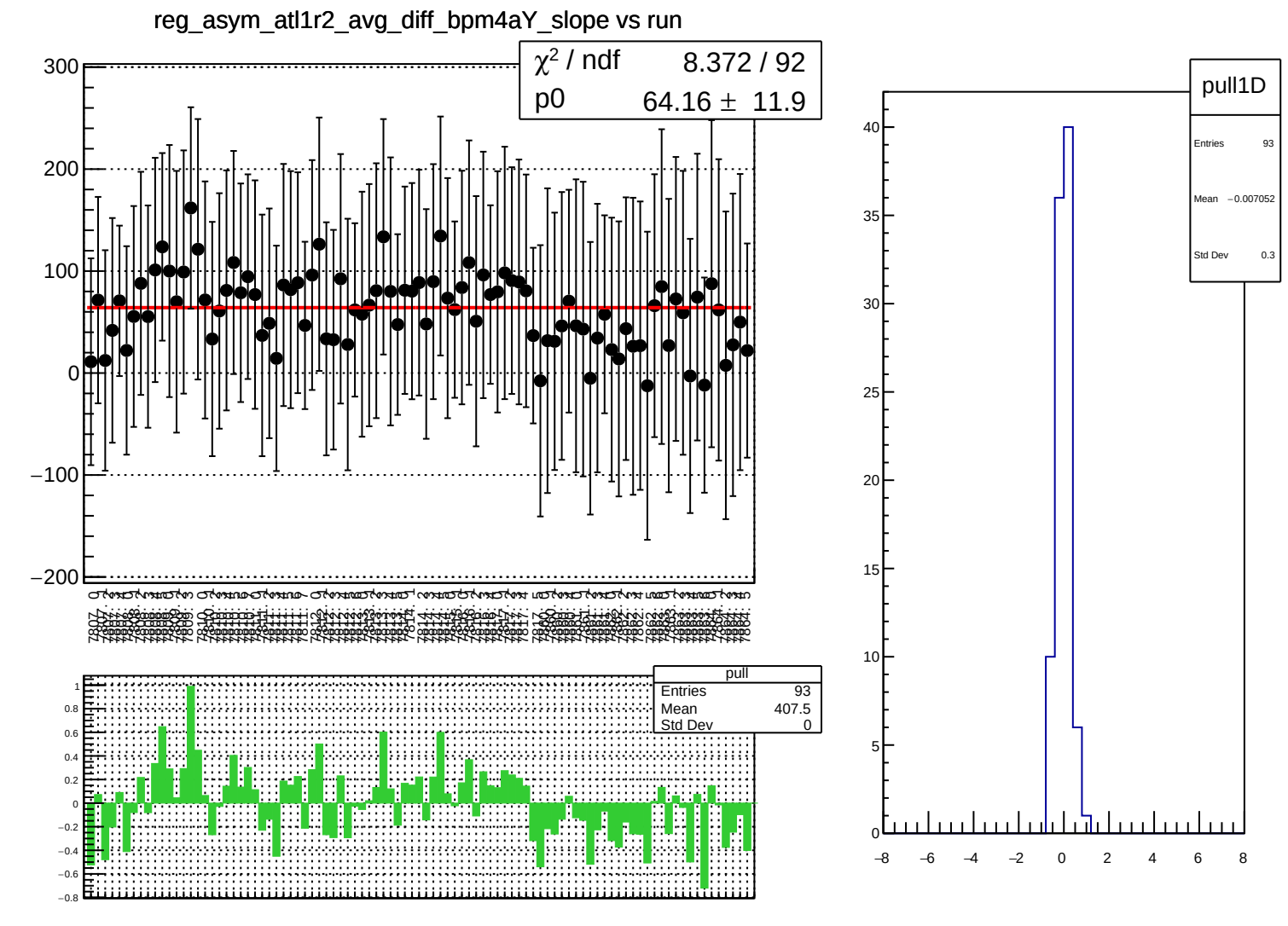

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 32.69 / 92
p0 −16.86 ± 5.929
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean 116
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

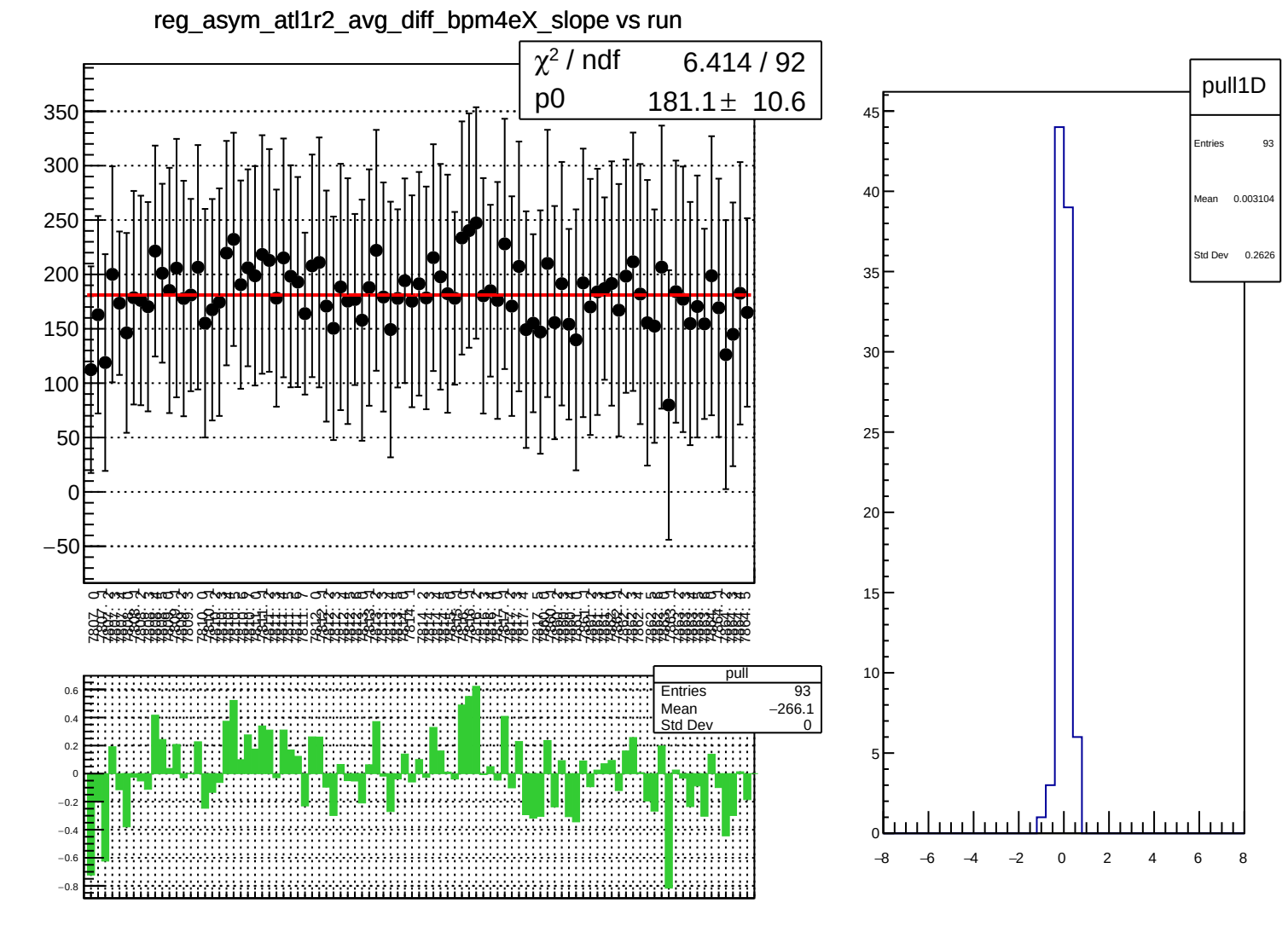

pull1D
Entries 93
Mean −0.009461
Std Dev 0.5928
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

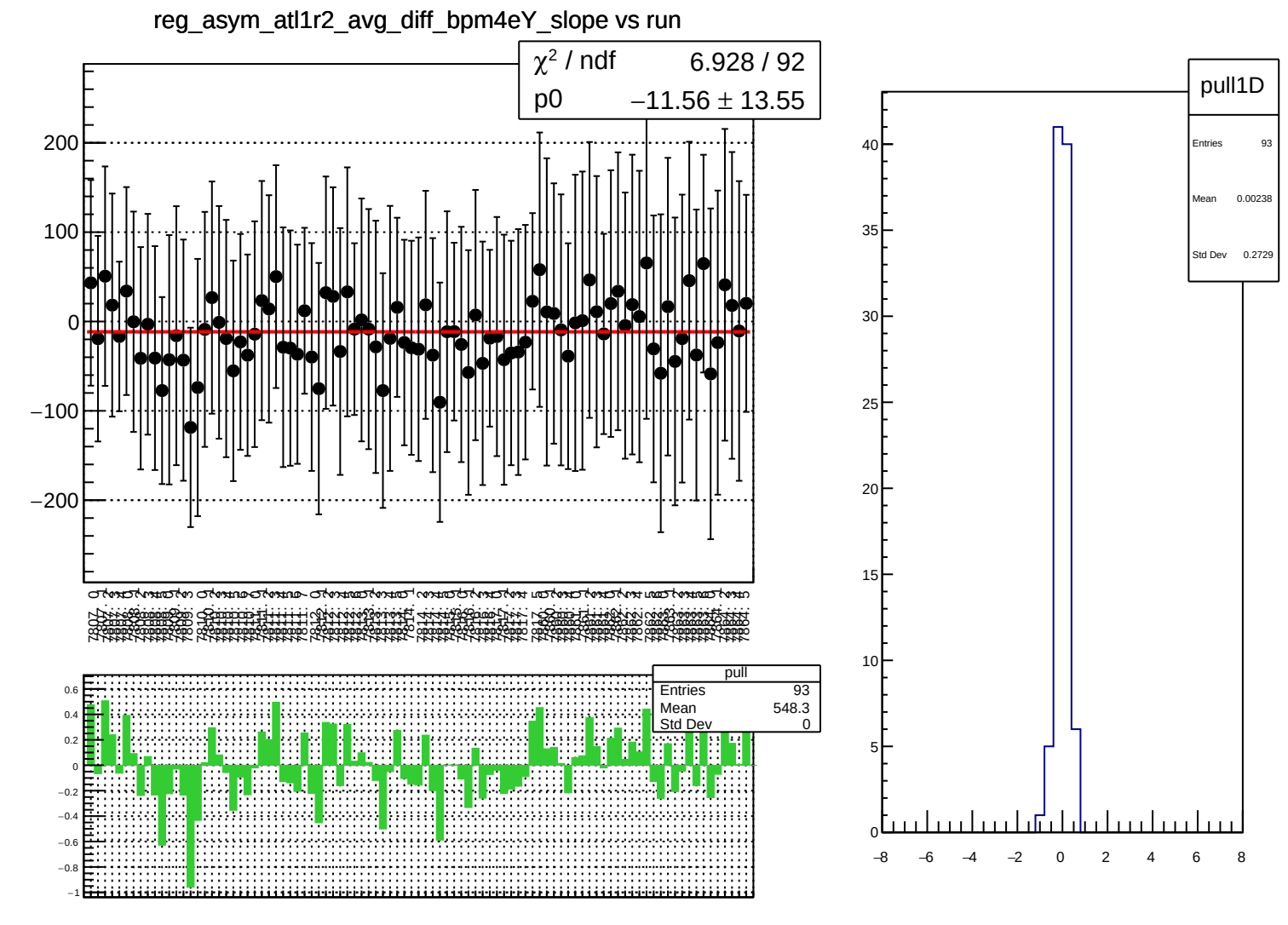

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 42.7 / 92
p0 −21.56 ± 0.1724
−18
−20
−22
−24
−26
pull
Entries 93
Mean 336.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 93
Mean 0.01349
Std Dev 0.6775
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

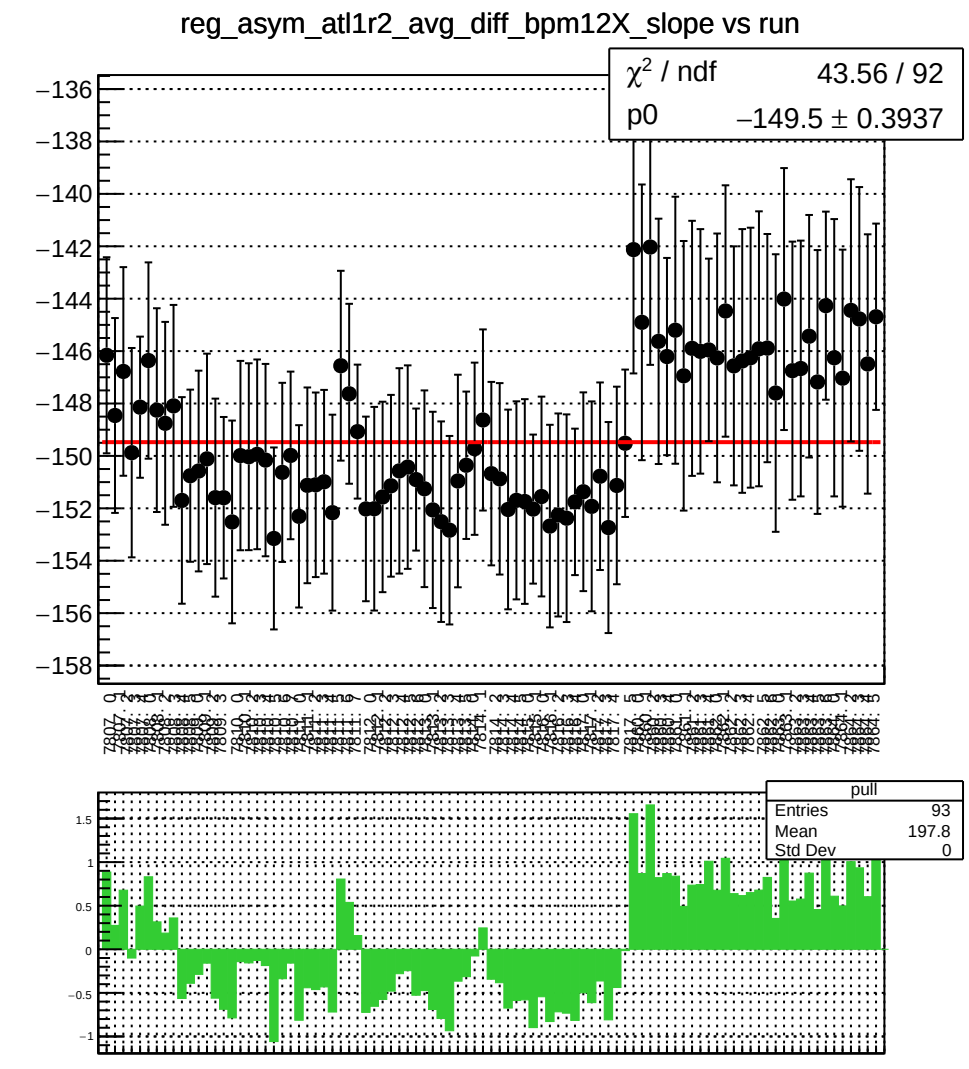

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 6.074 / 92
p0 −116.8 ± 11.72
100
0
−100
−200
−300
pull
Entries 93
Mean −102.1
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

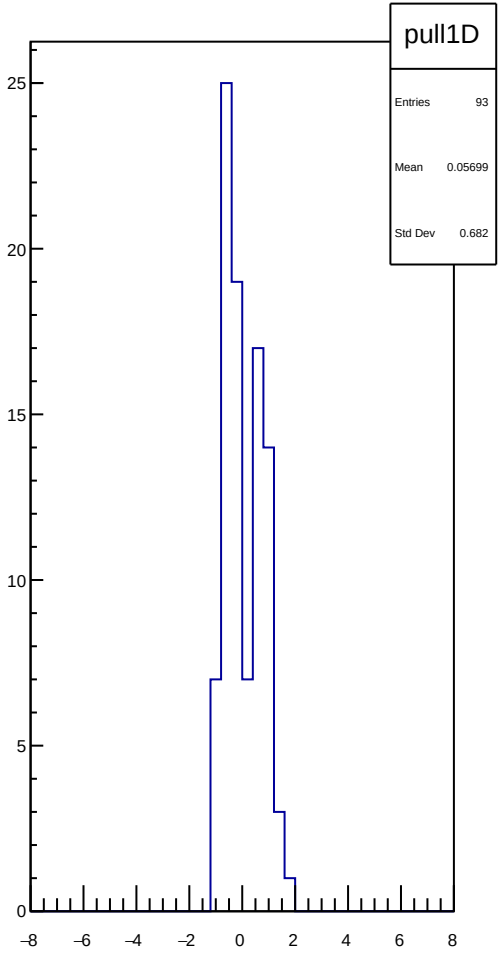

pull1D
Entries 93
Mean −0.003026
Std Dev 0.2555
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

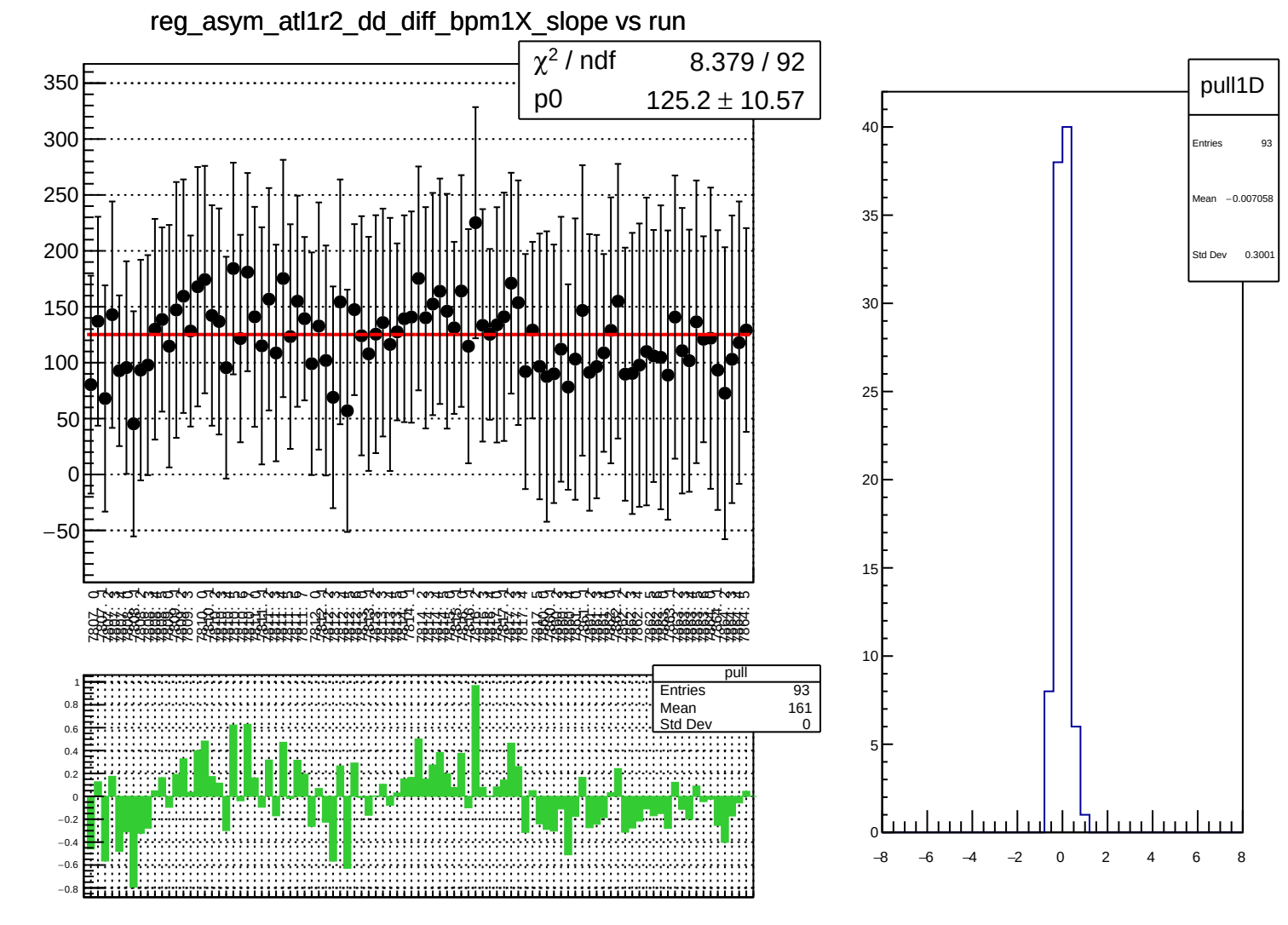

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.372 / 92
p0 64.16 ± 11.9
pull
Entries 93
Mean 407.5
Std Dev 0
pull1D
Entries 93
Mean −0.007052
Std Dev 0.3

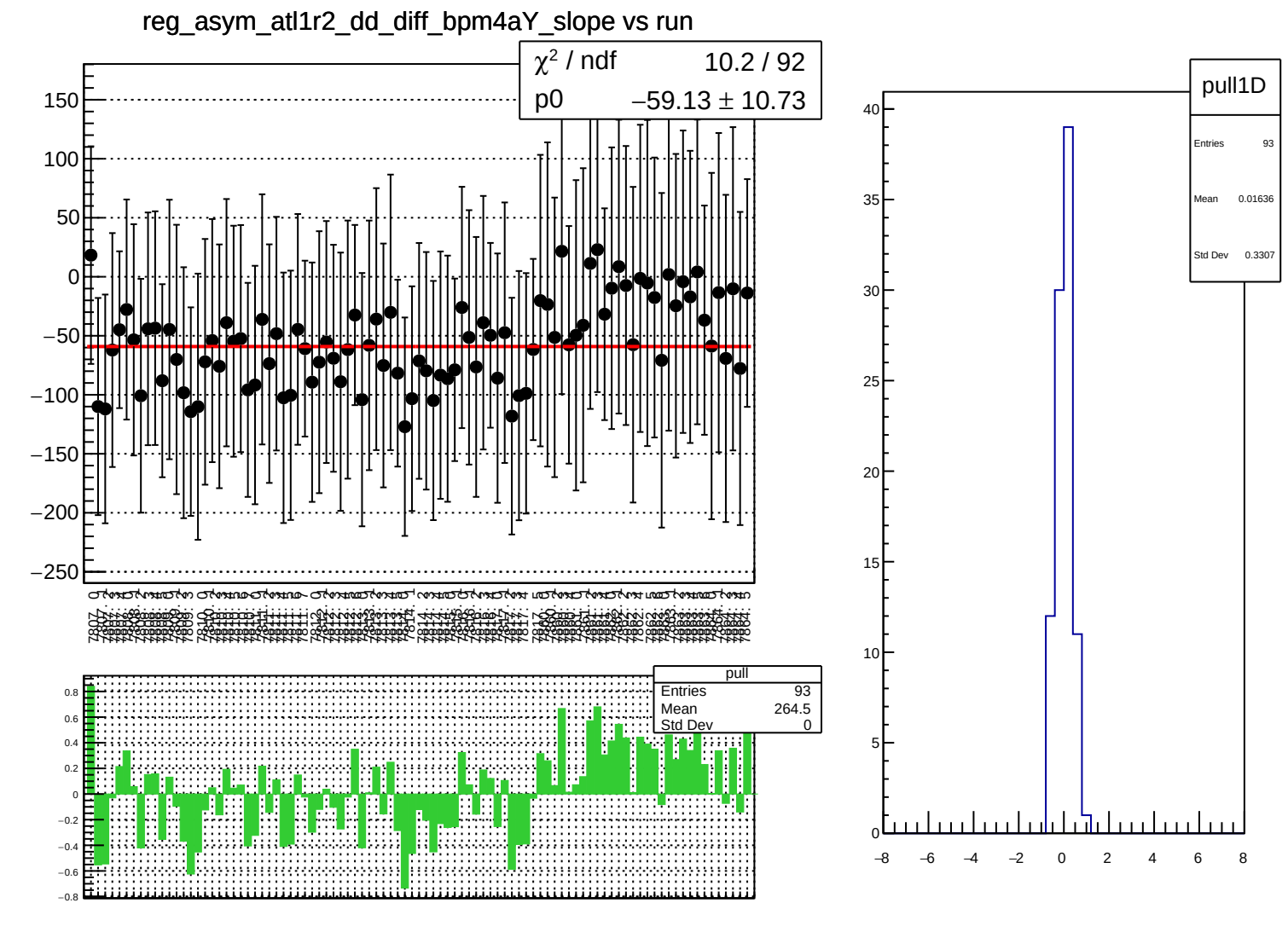

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.414 / 92
p0 181.1 ± 10.6
pull
Entries 93
Mean −266.1
Std Dev 0
pull1D
Entries 93
Mean 0.003104
Std Dev 0.2626

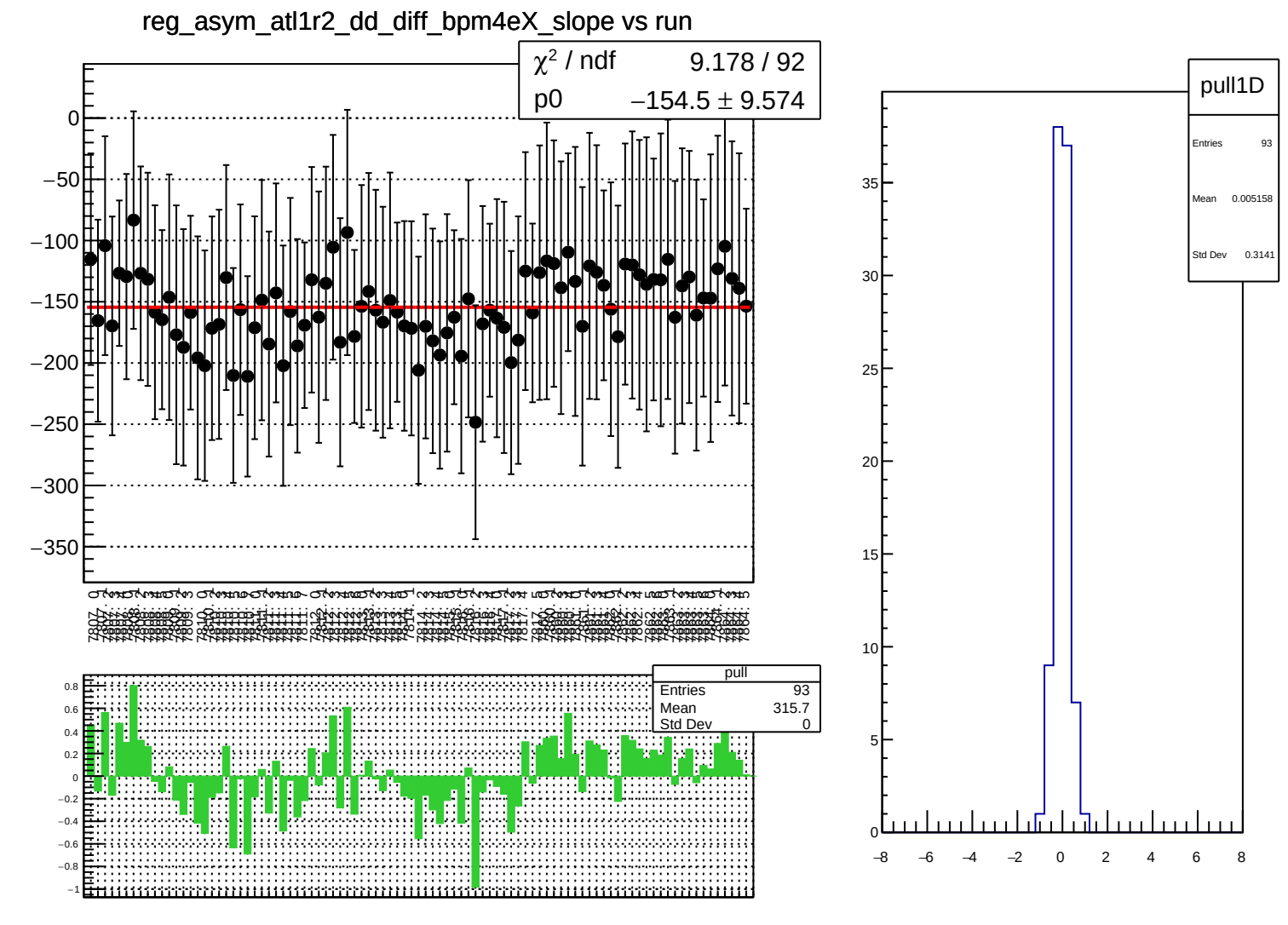

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.928 / 92
p0 −11.56 ± 13.55
200
100
0
−100
−200
pull
Entries 93
Mean 548.3
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 93
Mean 0.00238
Std Dev 0.2729
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

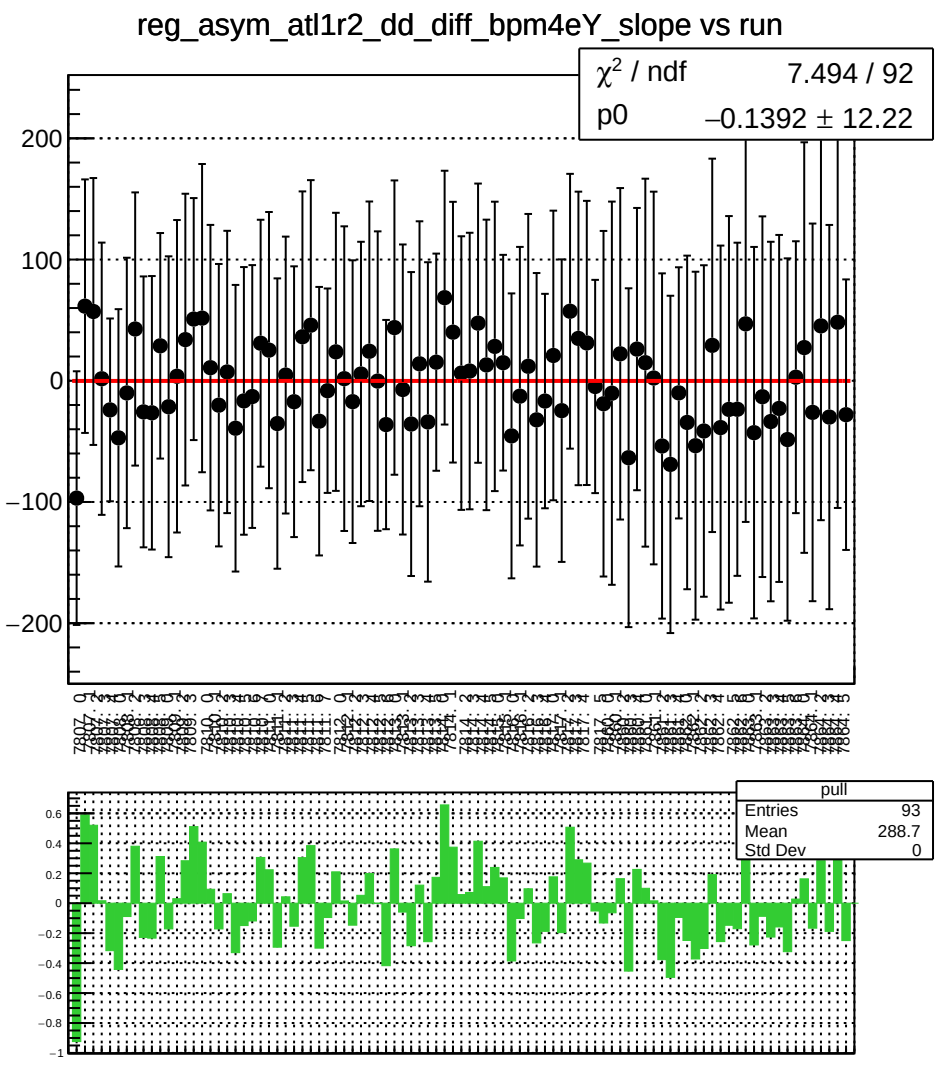

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 43.56 / 92
p0 −149.5 ± 0.3937
pull
Entries 93
Mean 197.8
Std Dev 0

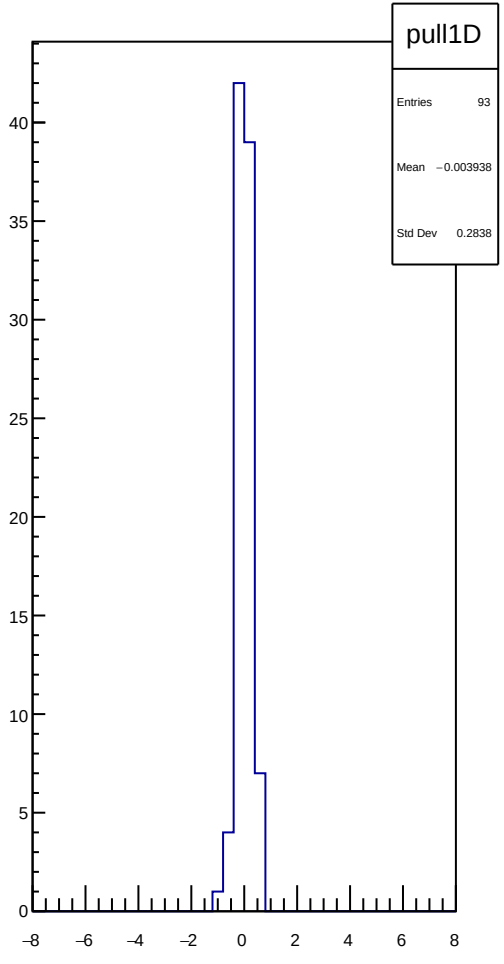

pull1D
Entries 93
Mean 0.05699
Std Dev 0.682

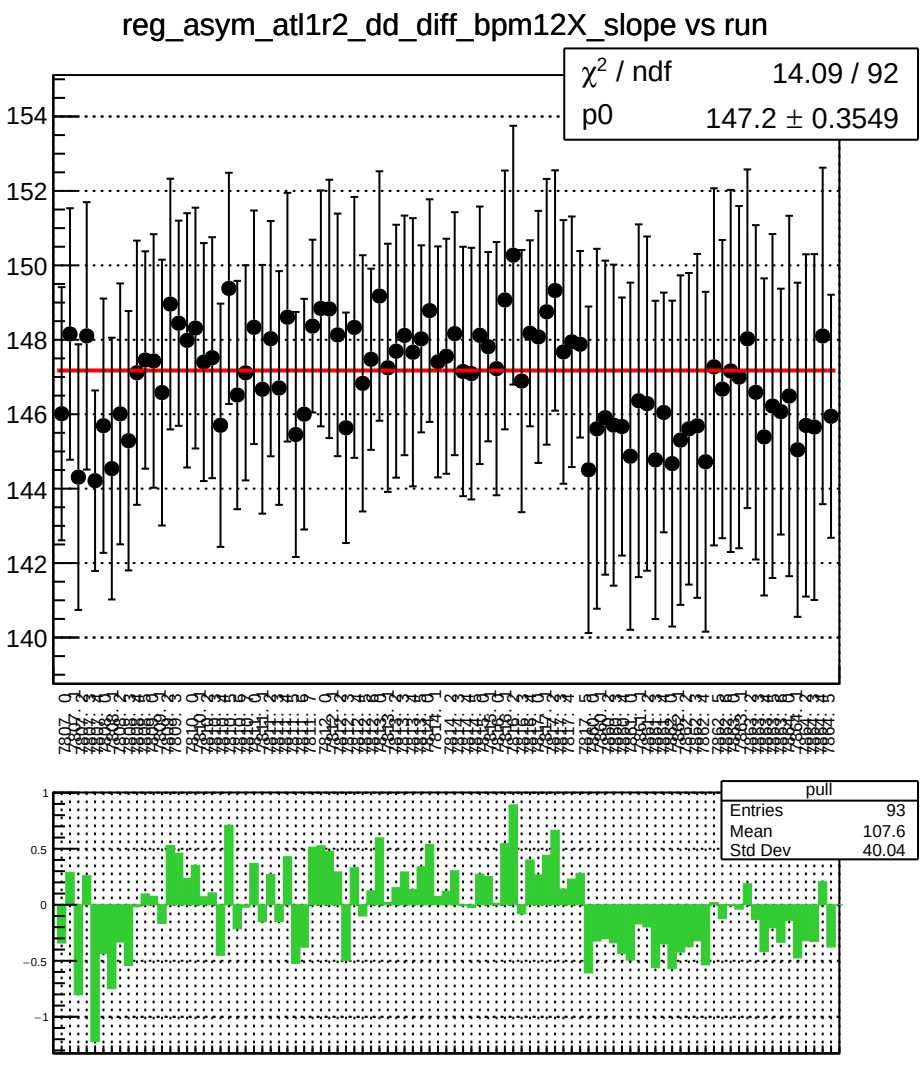

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 8.379 / 92
p0 125.2 ± 10.57
pull
Entries 93
Mean 161
Std Dev 0
pull1D
Entries 93
Mean −0.007058
Std Dev 0.3001

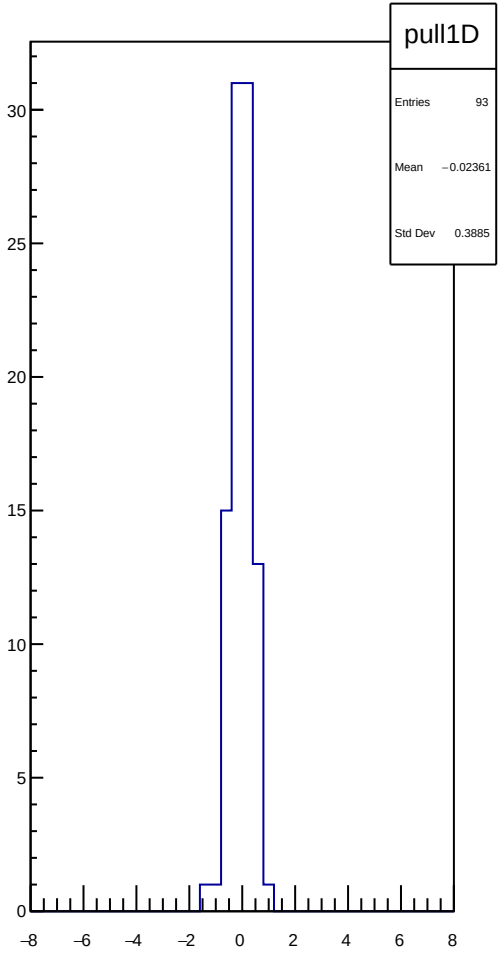

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.2 / 92
p0 −59.13 ± 10.73
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 93
Mean 264.5
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 93
Mean 0.01636
Std Dev 0.3307
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

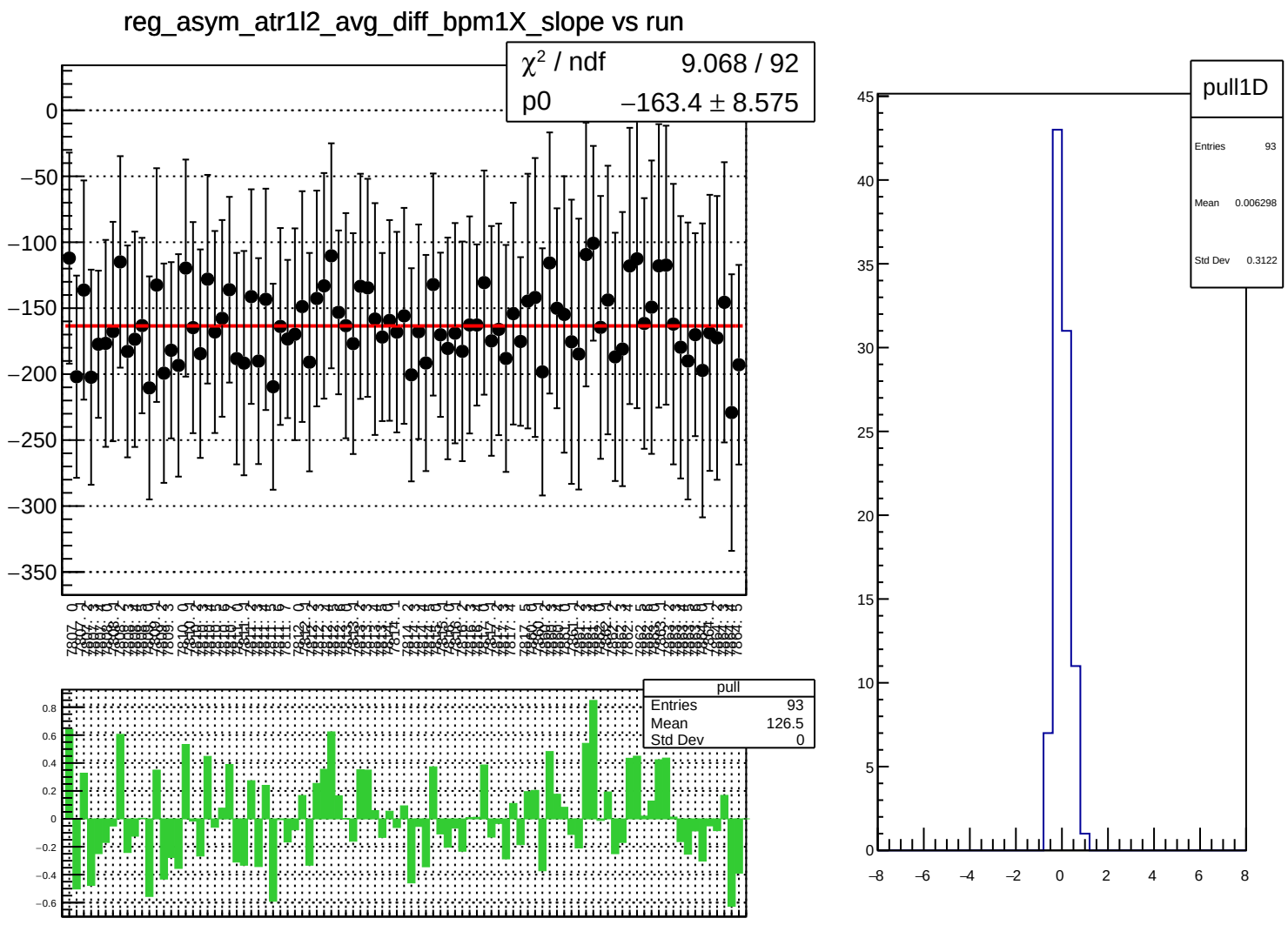

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.178 / 92
p0 −154.5 ± 9.574
pull
Entries 93
Mean 315.7
Std Dev 0
pull1D
Entries 93
Mean 0.005158
Std Dev 0.3141

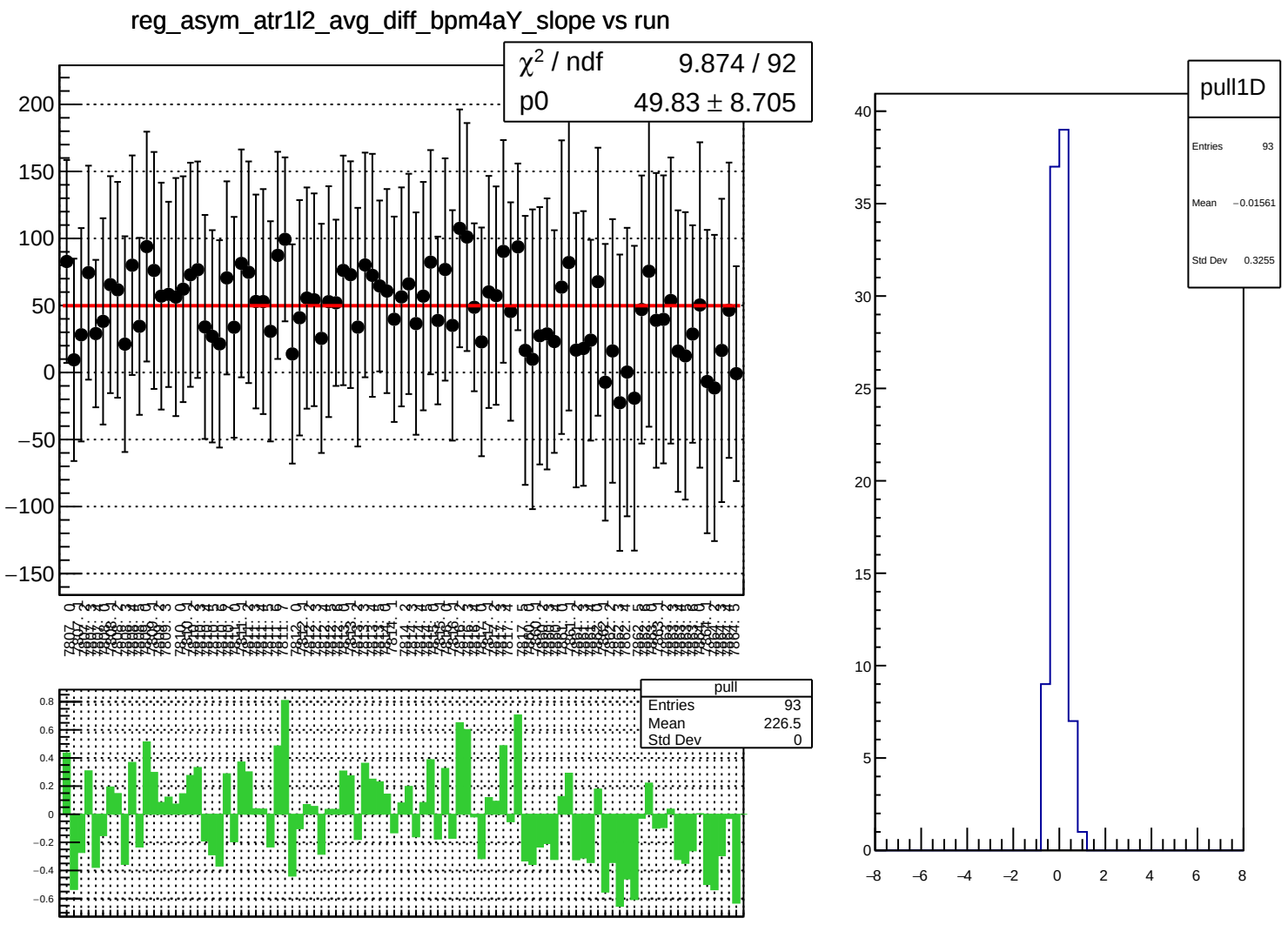

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.494 / 92
p0 −0.1392 ± 12.22
200
100
0
−100
−200
pull
Entries 93
Mean 288.7
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

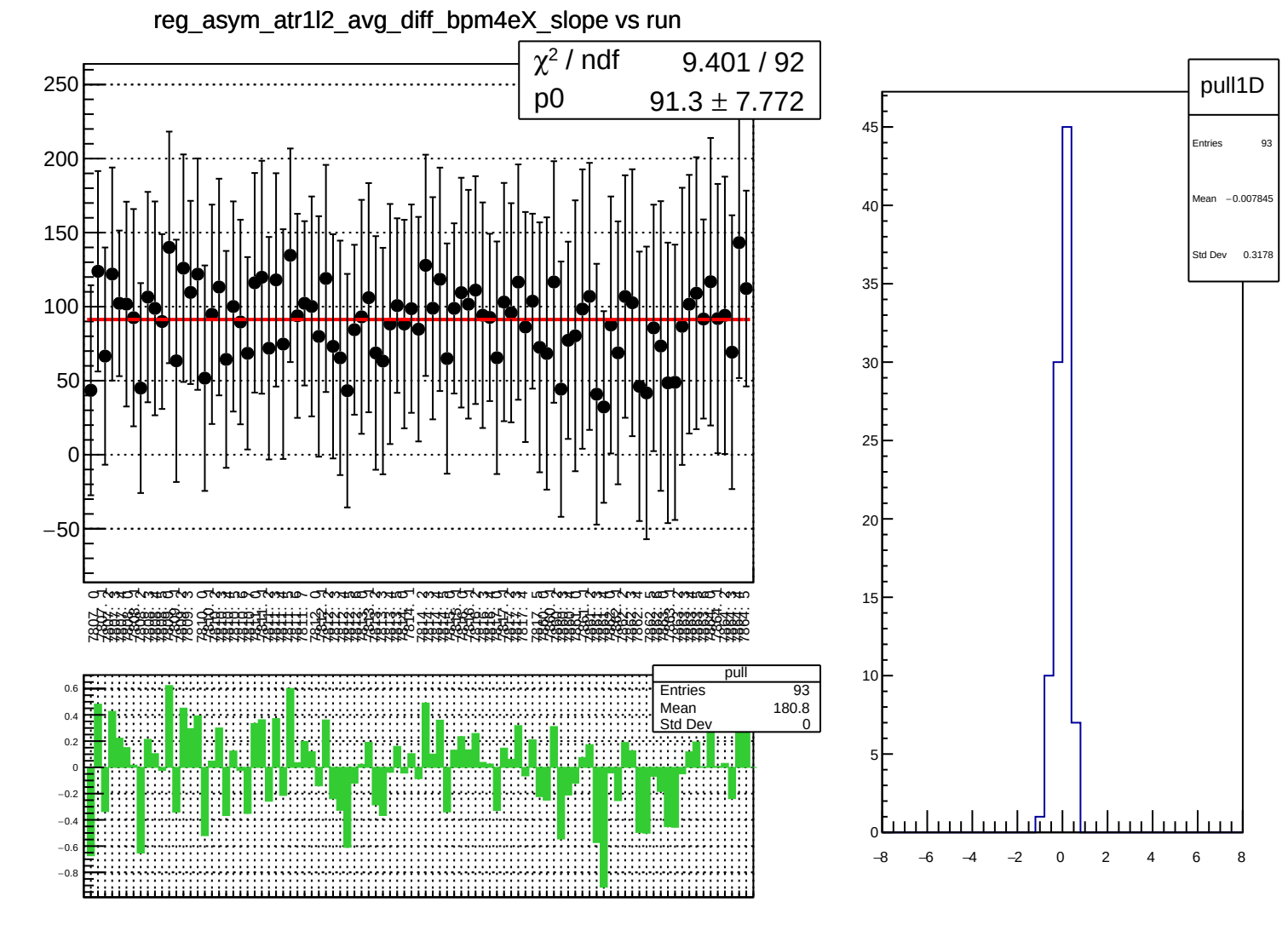

pull1D
Entries 93
Mean −0.003938
Std Dev 0.2838
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

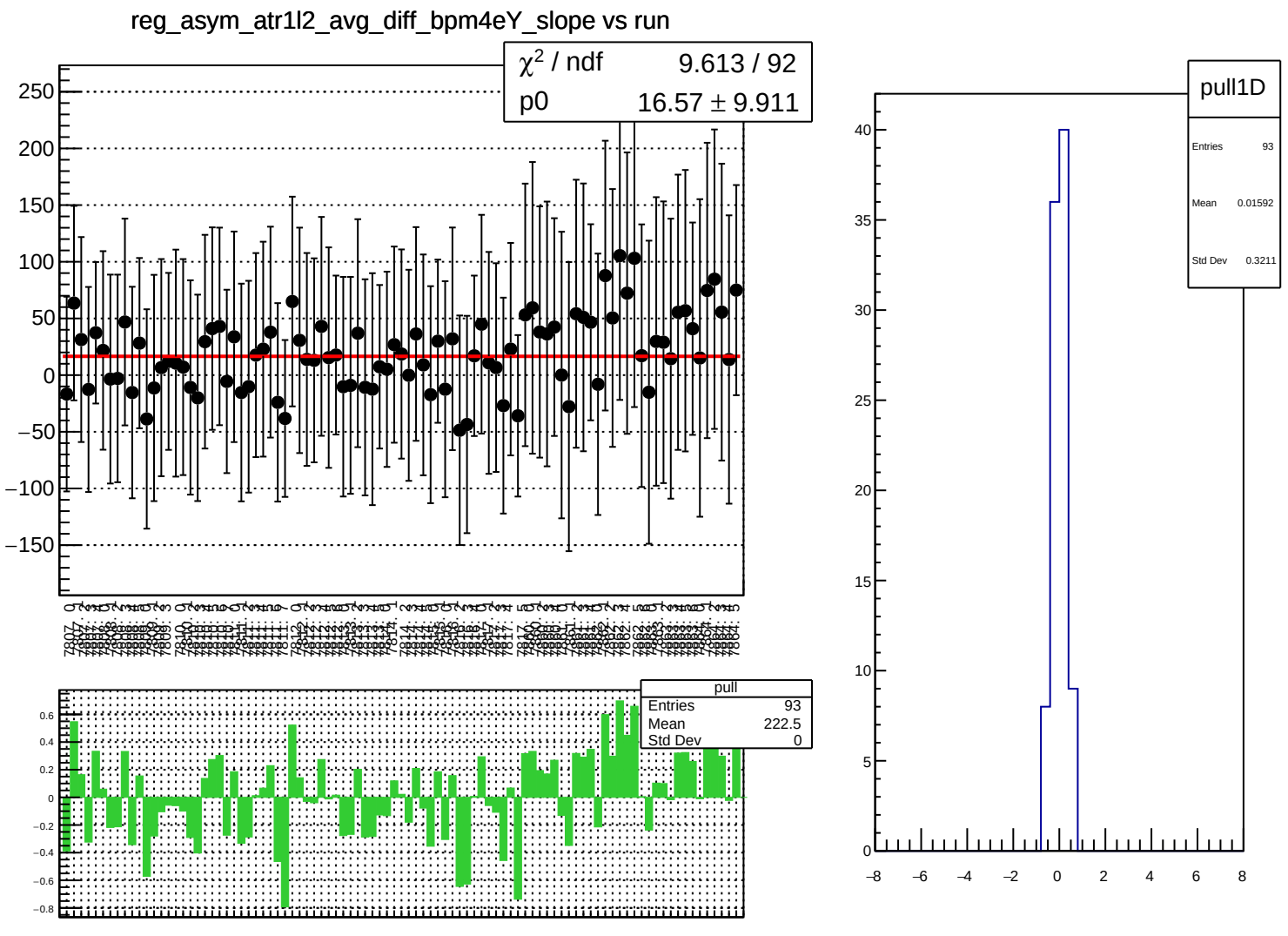

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 14.09 / 92
p0 147.2 ± 0.3549
154
152
150
148
146
144
142
140
pull
Entries 93
Mean 107.6
Std Dev 40.04
1
0.5
0
−0.5
−1

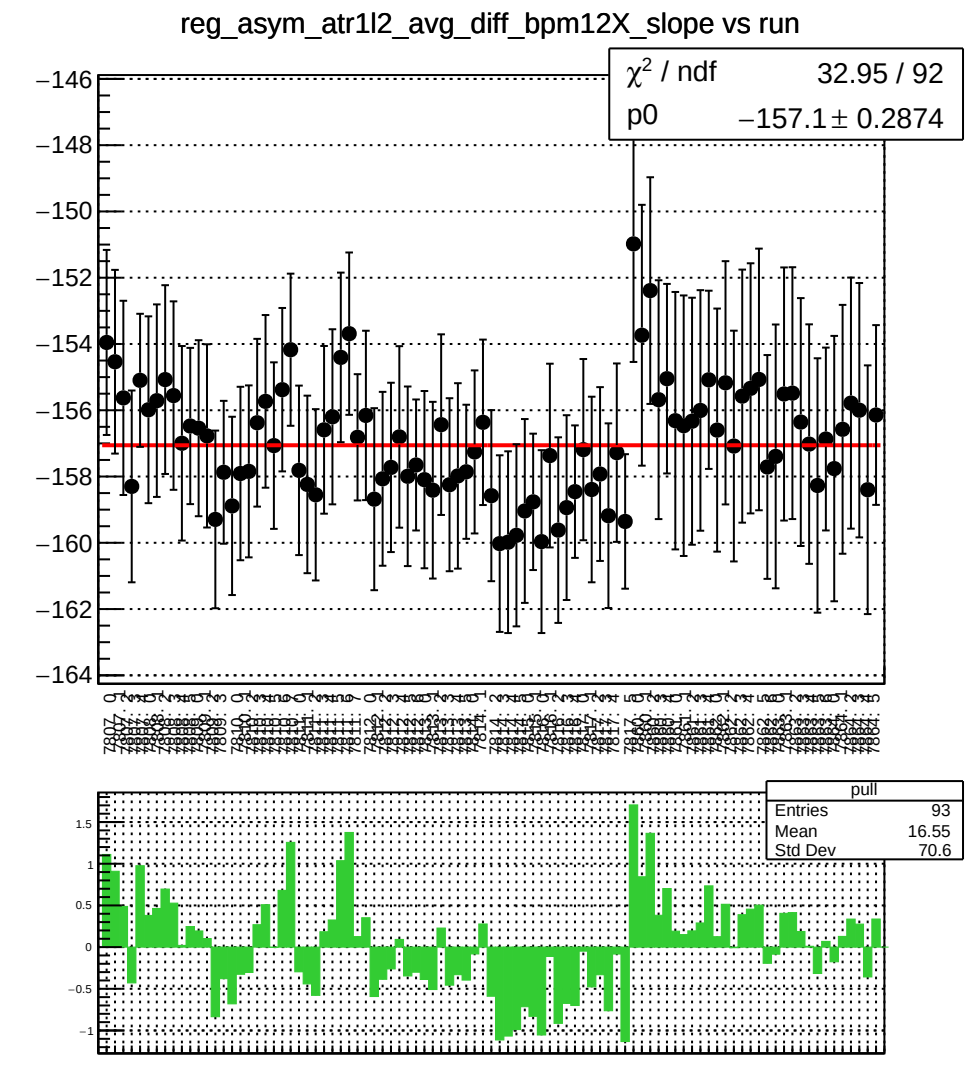

pull1D
Entries 93
Mean −0.02361
Std Dev 0.3885
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

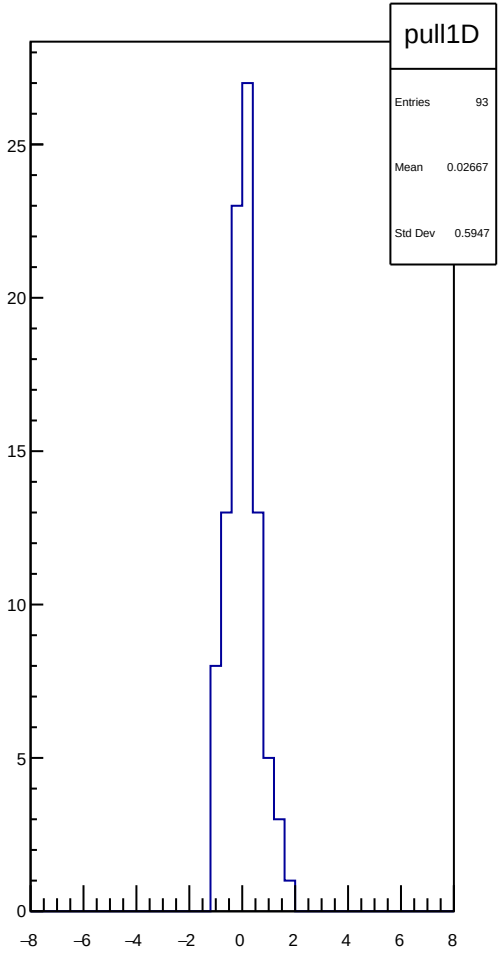

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 9.068 / 92
p0 −163.4 ± 8.575
pull
Entries 93
Mean 126.5
Std Dev 0
pull1D
Entries 93
Mean 0.006298
Std Dev 0.3122

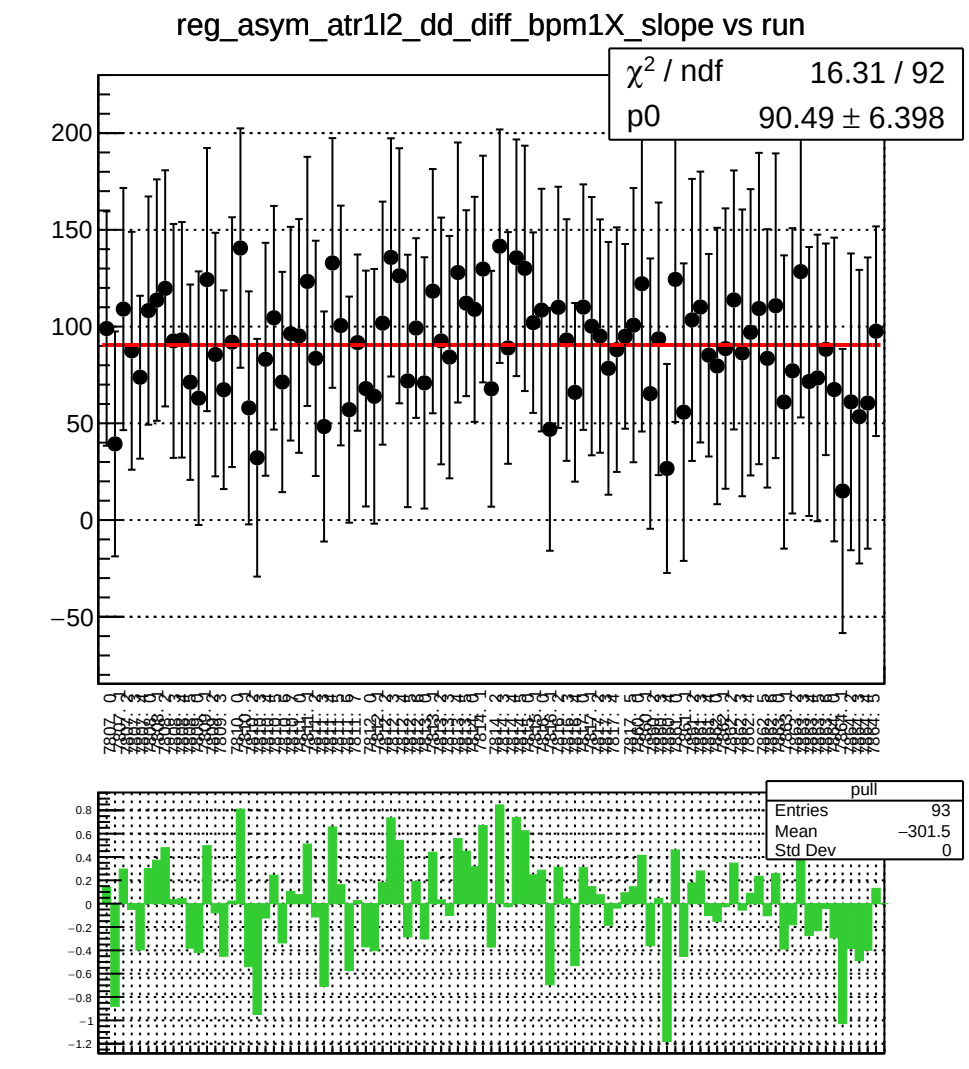

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.874 / 92
p0 49.83 ± 8.705
pull
Entries 93
Mean 226.5
Std Dev 0
pull1D
Entries 93
Mean −0.01561
Std Dev 0.3255

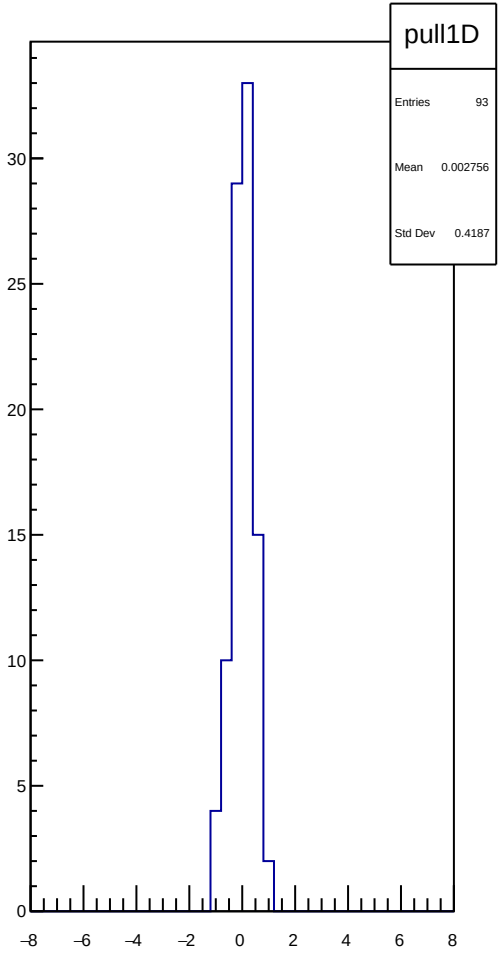

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.401 / 92
p0 91.3 ± 7.772
pull
Entries 93
Mean 180.8
Std Dev 0
pull1D
Entries 93
Mean −0.007845
Std Dev 0.3178

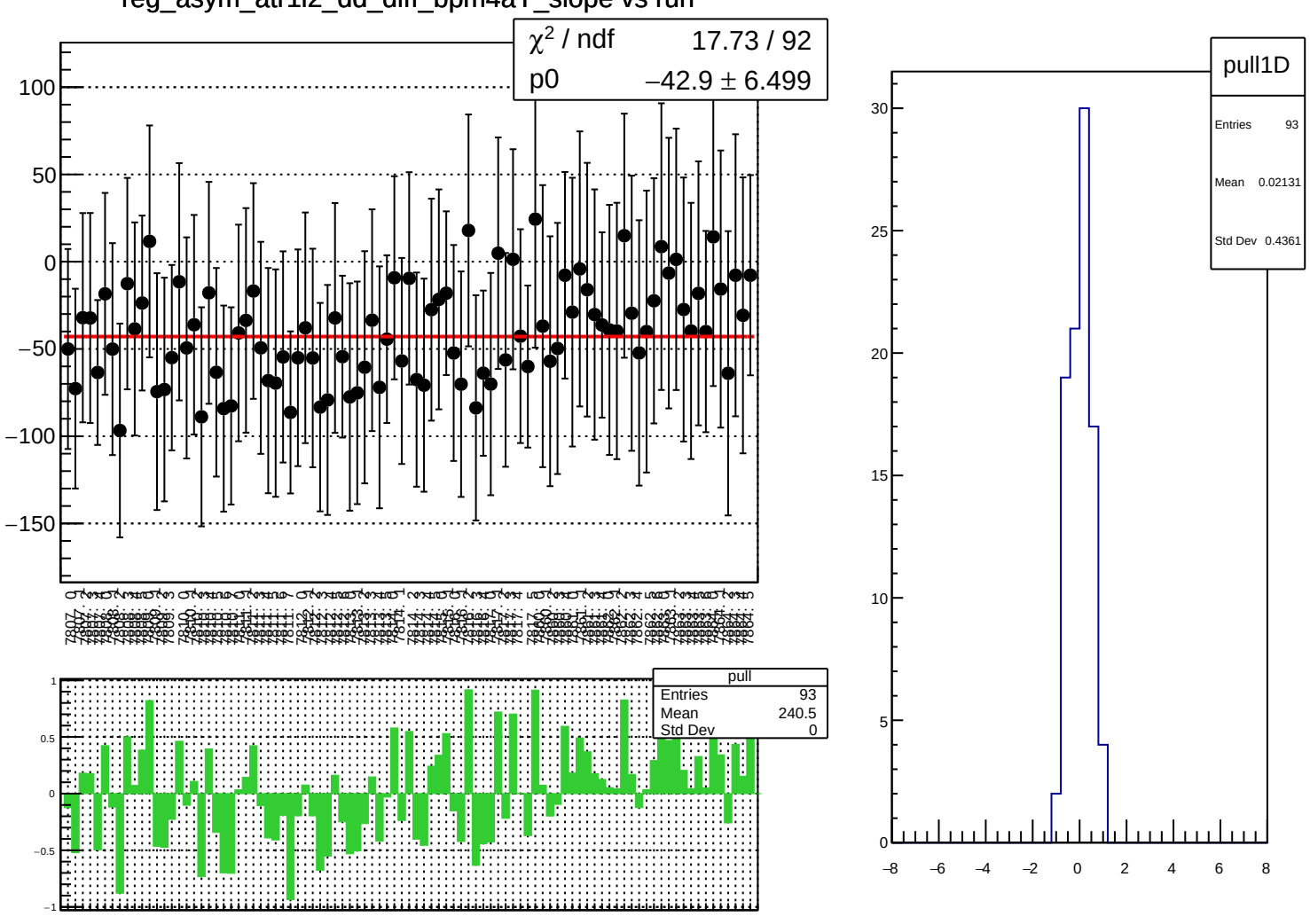

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.613 / 92
p0 16.57 ± 9.911
pull
Entries 93
Mean 222.5
Std Dev 0
pull1D
Entries 93
Mean 0.01592
Std Dev 0.3211

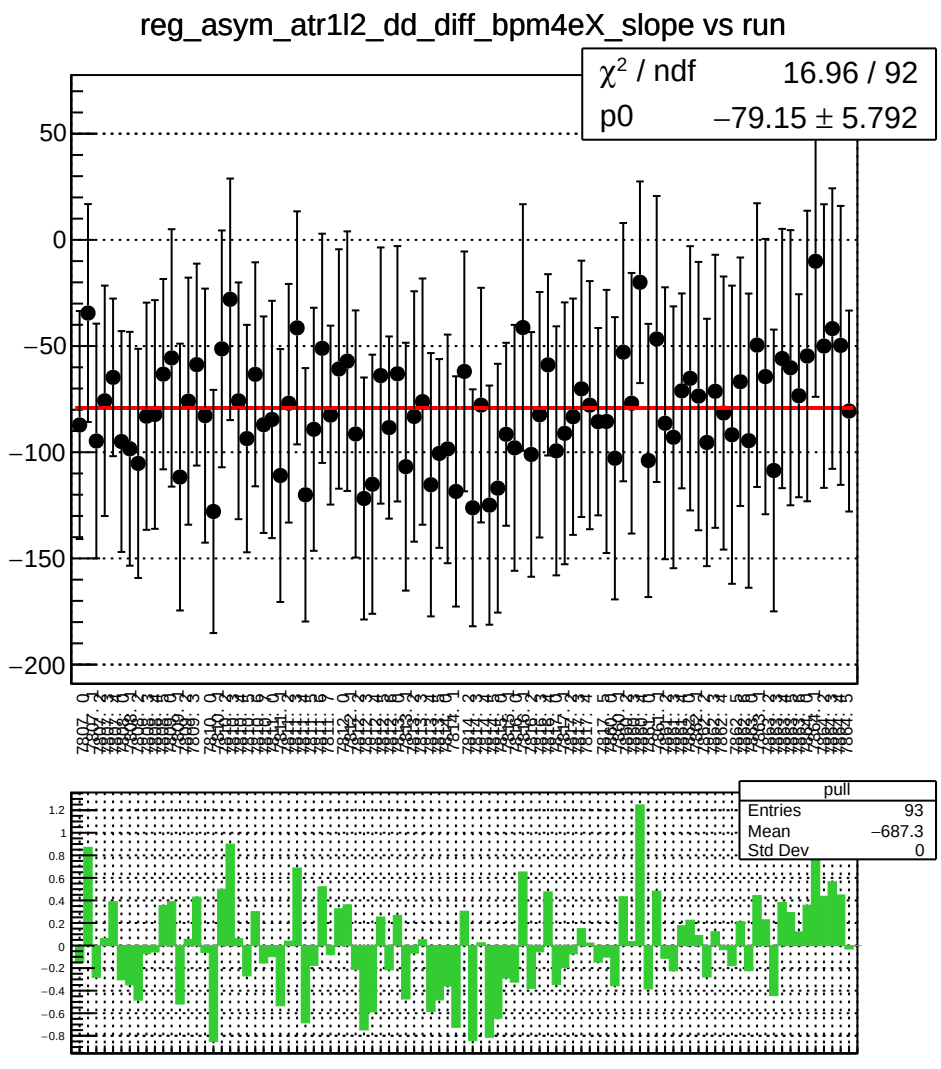

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 32.95 / 92
p0 −157.1 ± 0.2874
pull
Entries 93
Mean 16.55
Std Dev 70.6

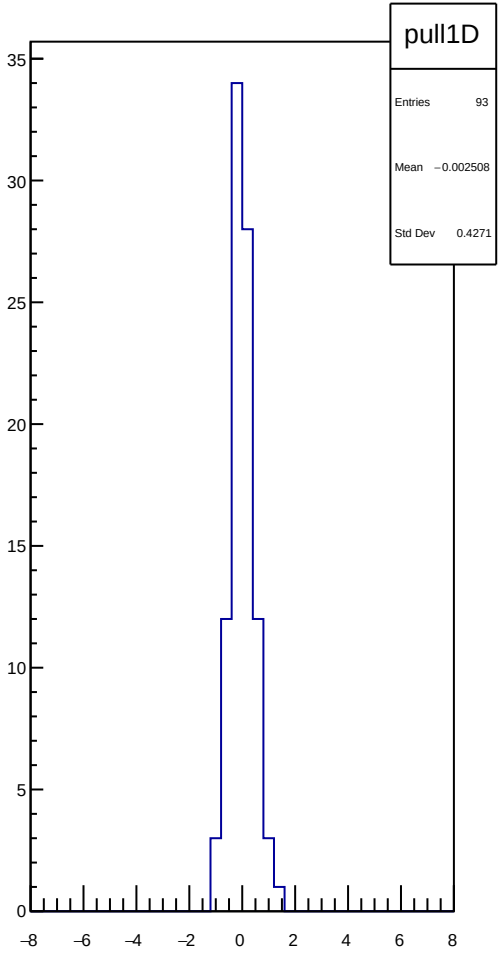

pull1D
Entries 93
Mean 0.02667
Std Dev 0.5947

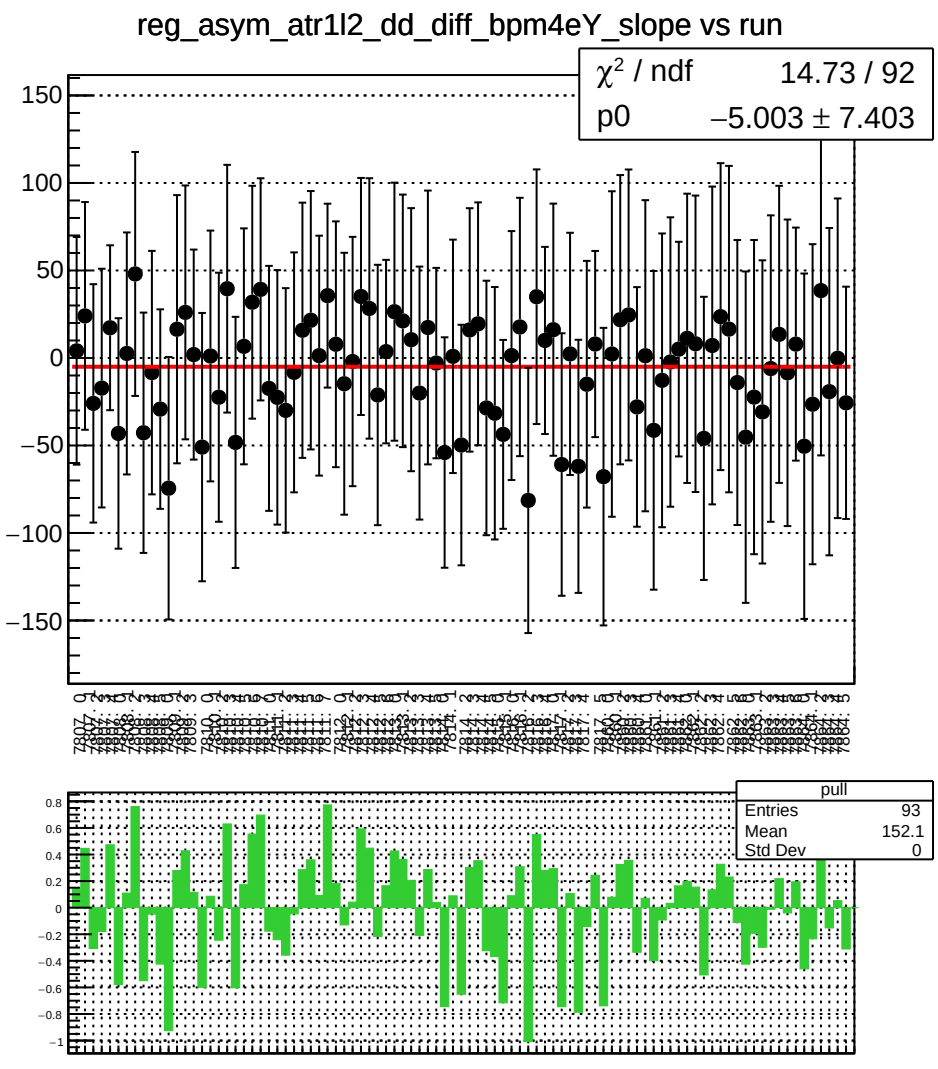

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 16.31 / 92
p0 90.49 ± 6.398
200
150
100
50
0
−50
pull
Entries 93
Mean −301.5
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

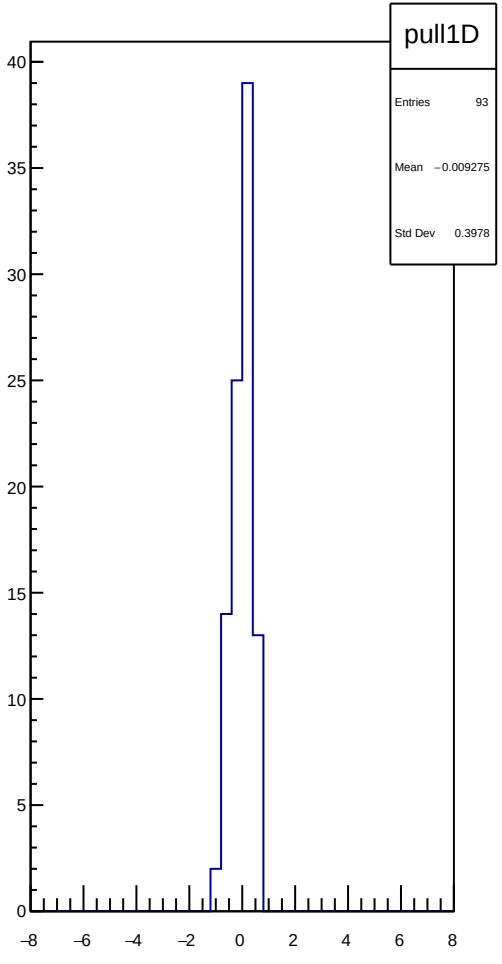

pull1D
Entries 93
Mean 0.002756
Std Dev 0.4187
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

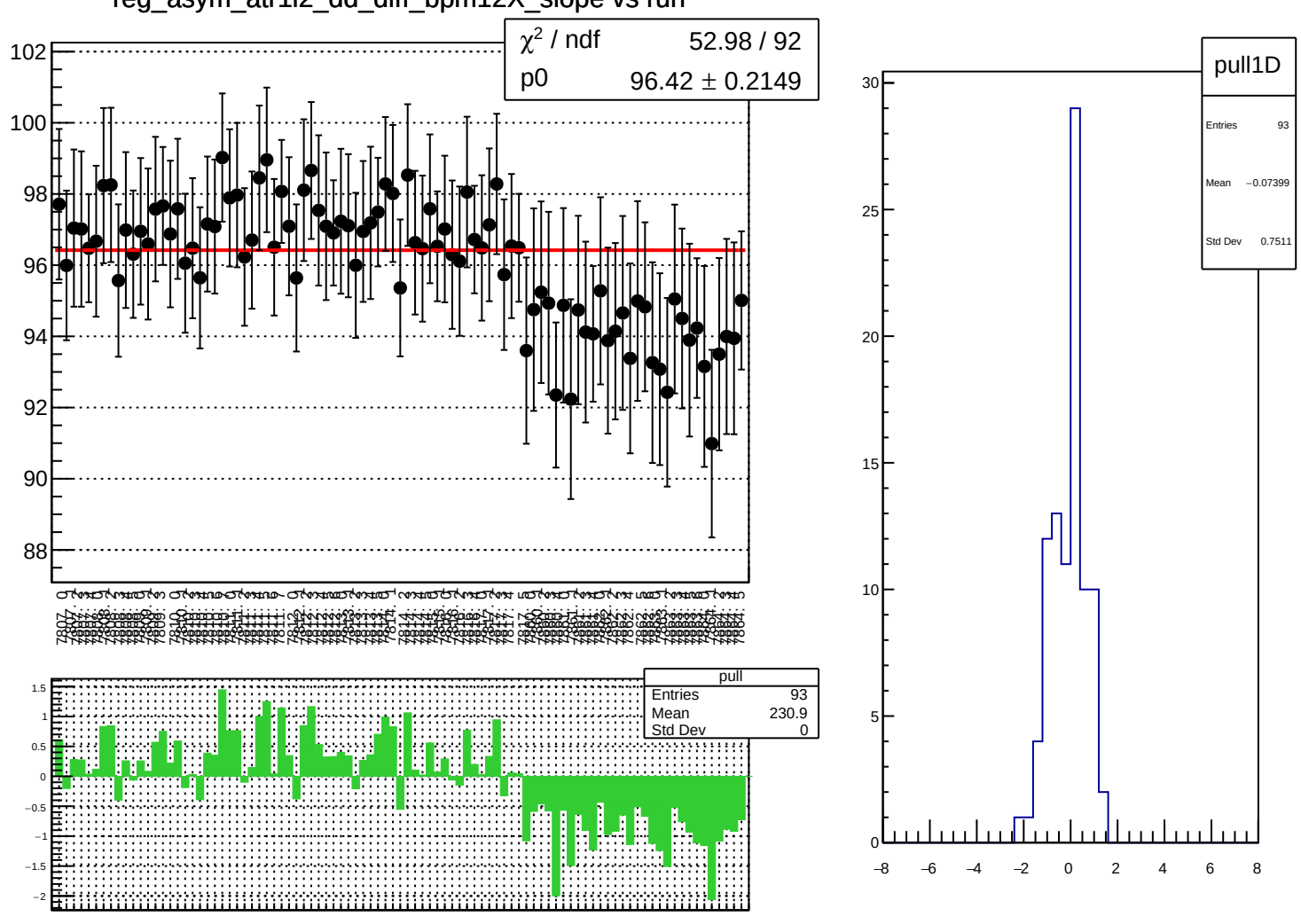

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 17.73 / 92
p0 −42.9 ± 6.499
pull
Entries 93
Mean 240.5
Std Dev 0
pull1D
Entries 93
Mean 0.02131
Std Dev 0.4361

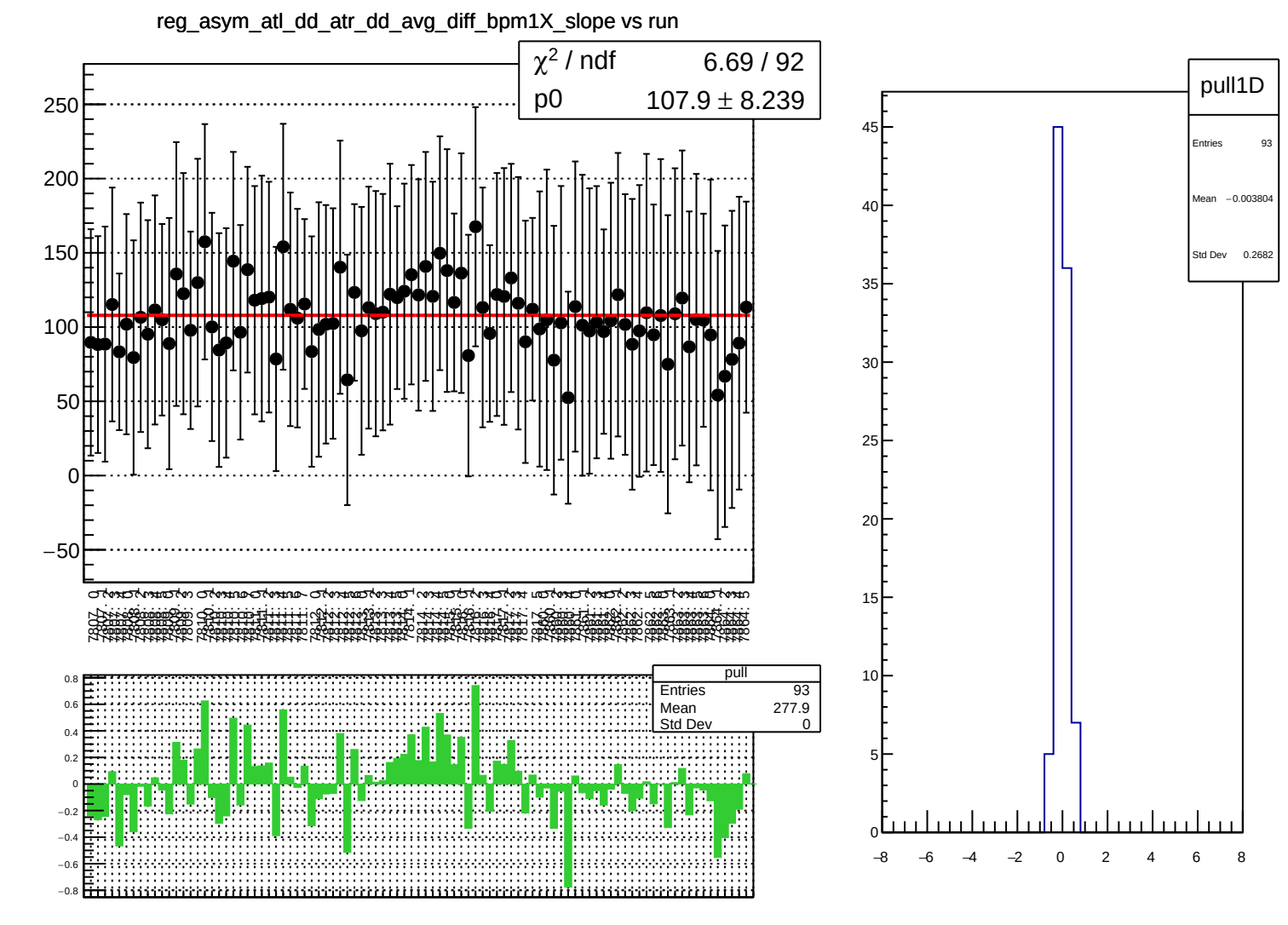

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 16.96 / 92
p0 −79.15 ± 5.792
pull
Entries 93
Mean −687.3
Std Dev 0

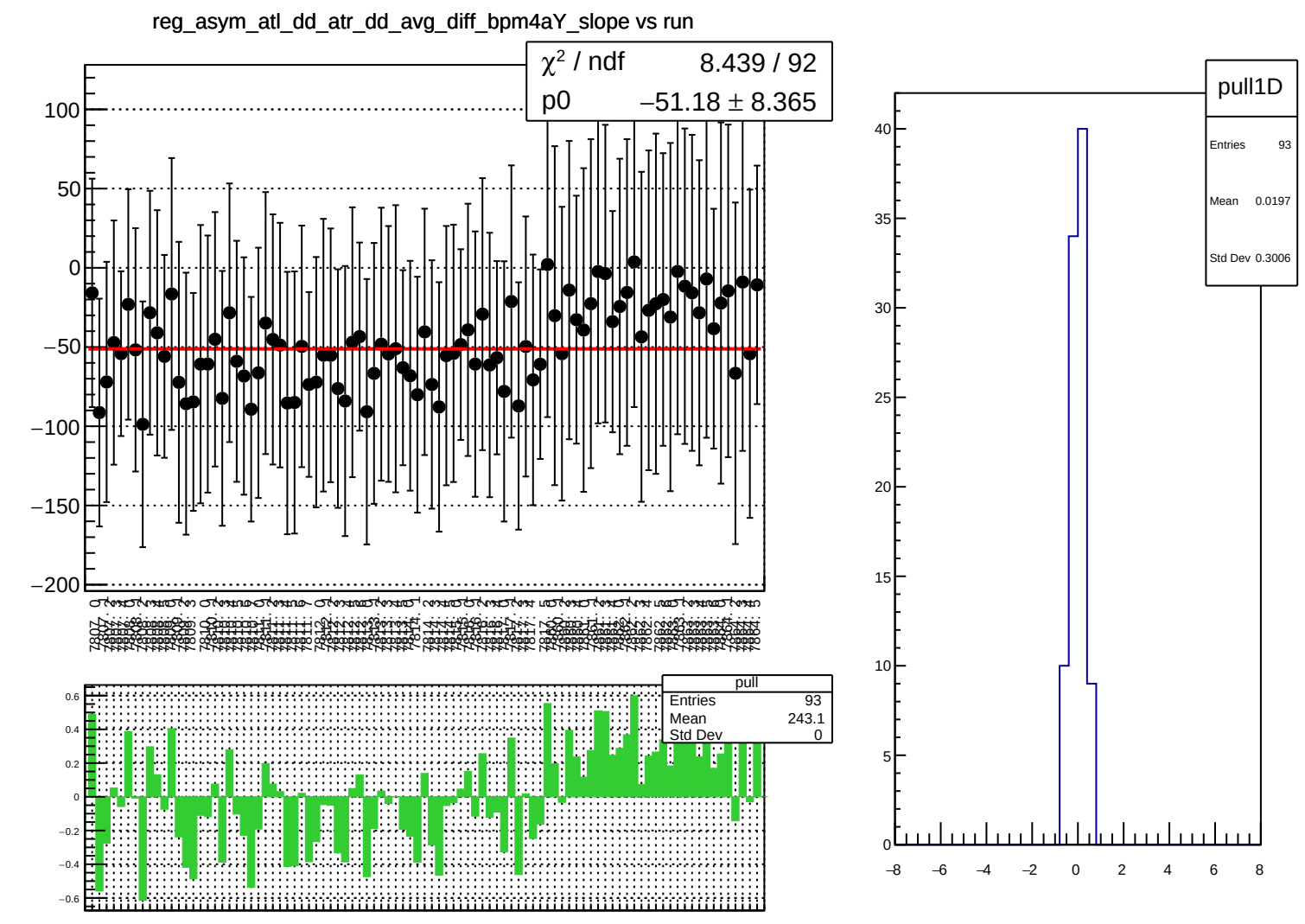

pull1D
Entries 93
Mean −0.002508
Std Dev 0.4271

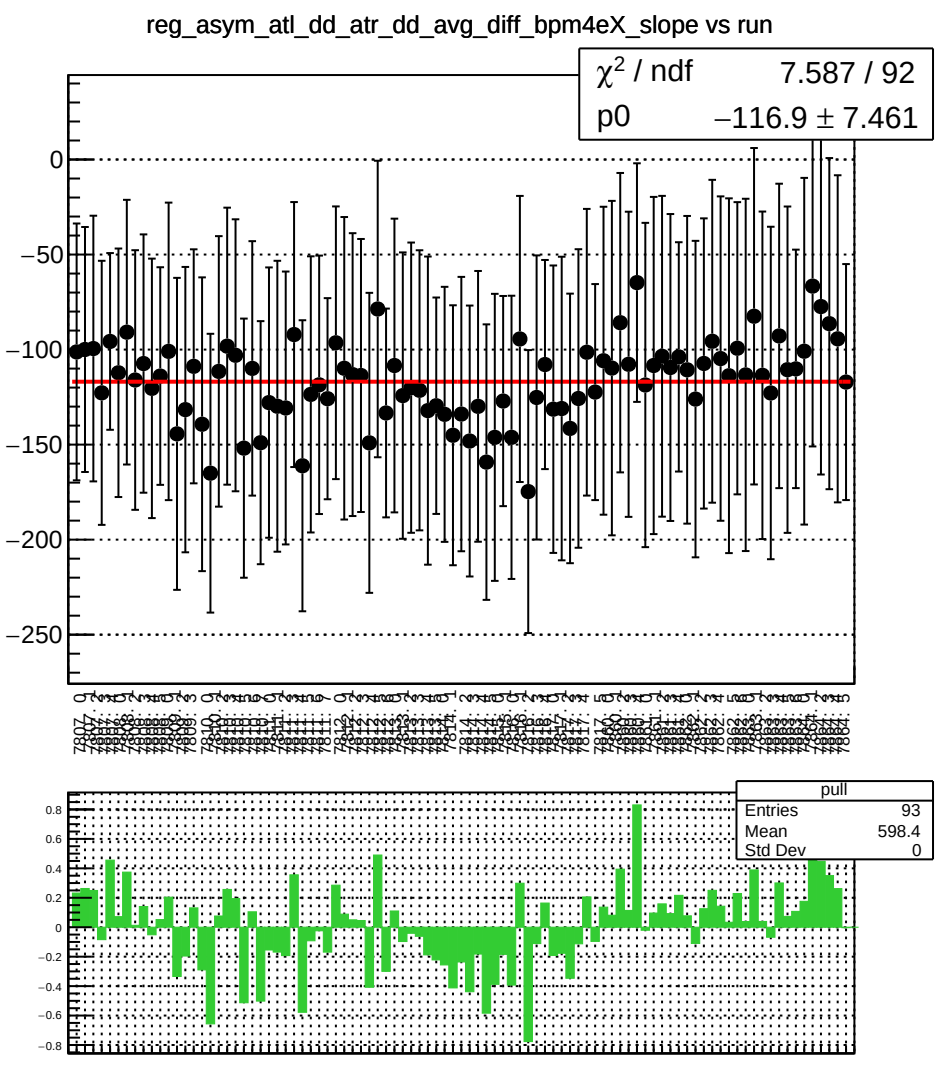

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 14.73 / 92
p0 −5.003 ± 7.403
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean 152.1
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

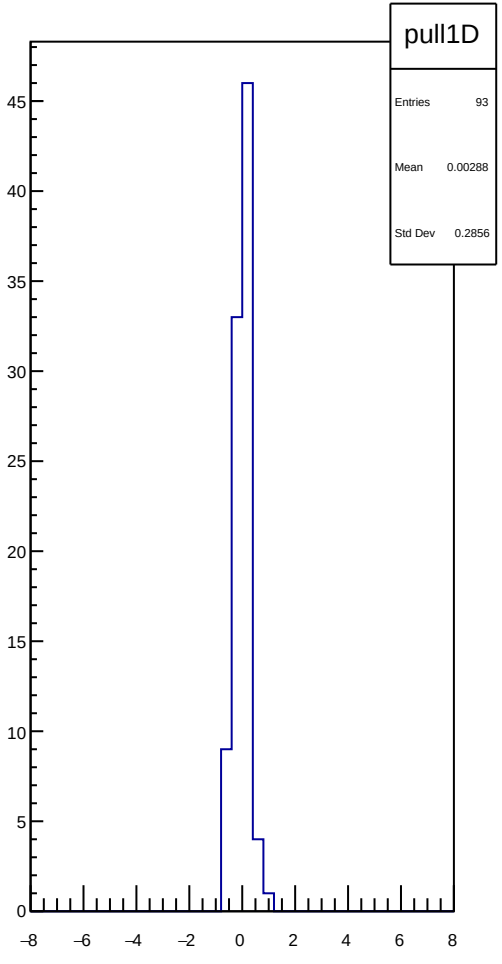

pull1D
Entries 93
Mean −0.009275
Std Dev 0.3978
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

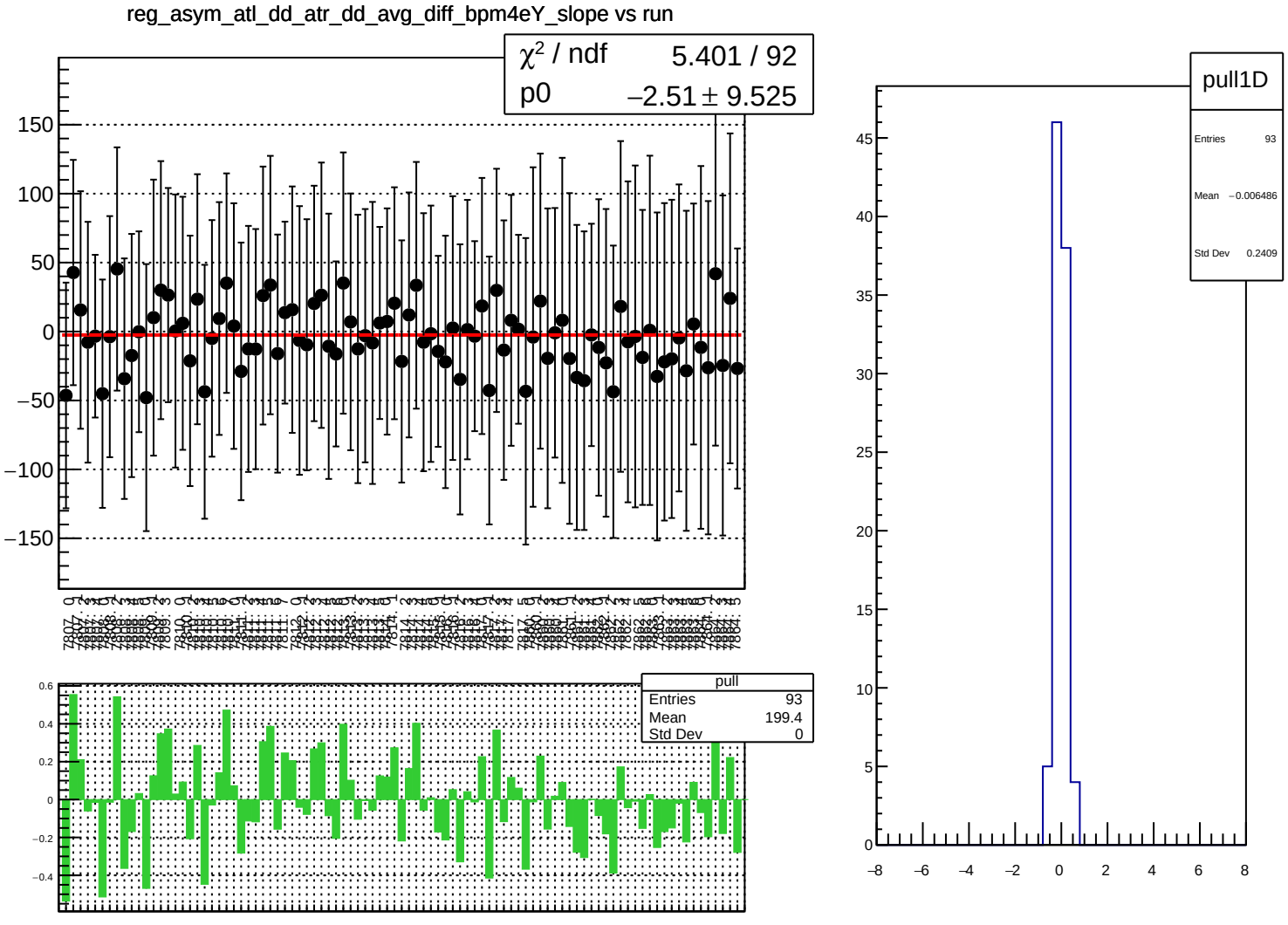

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 52.98 / 92
p0 96.42 ± 0.2149
pull
Entries 93
Mean 230.9
Std Dev 0
pull1D
Entries 93
Mean −0.07399
Std Dev 0.7511

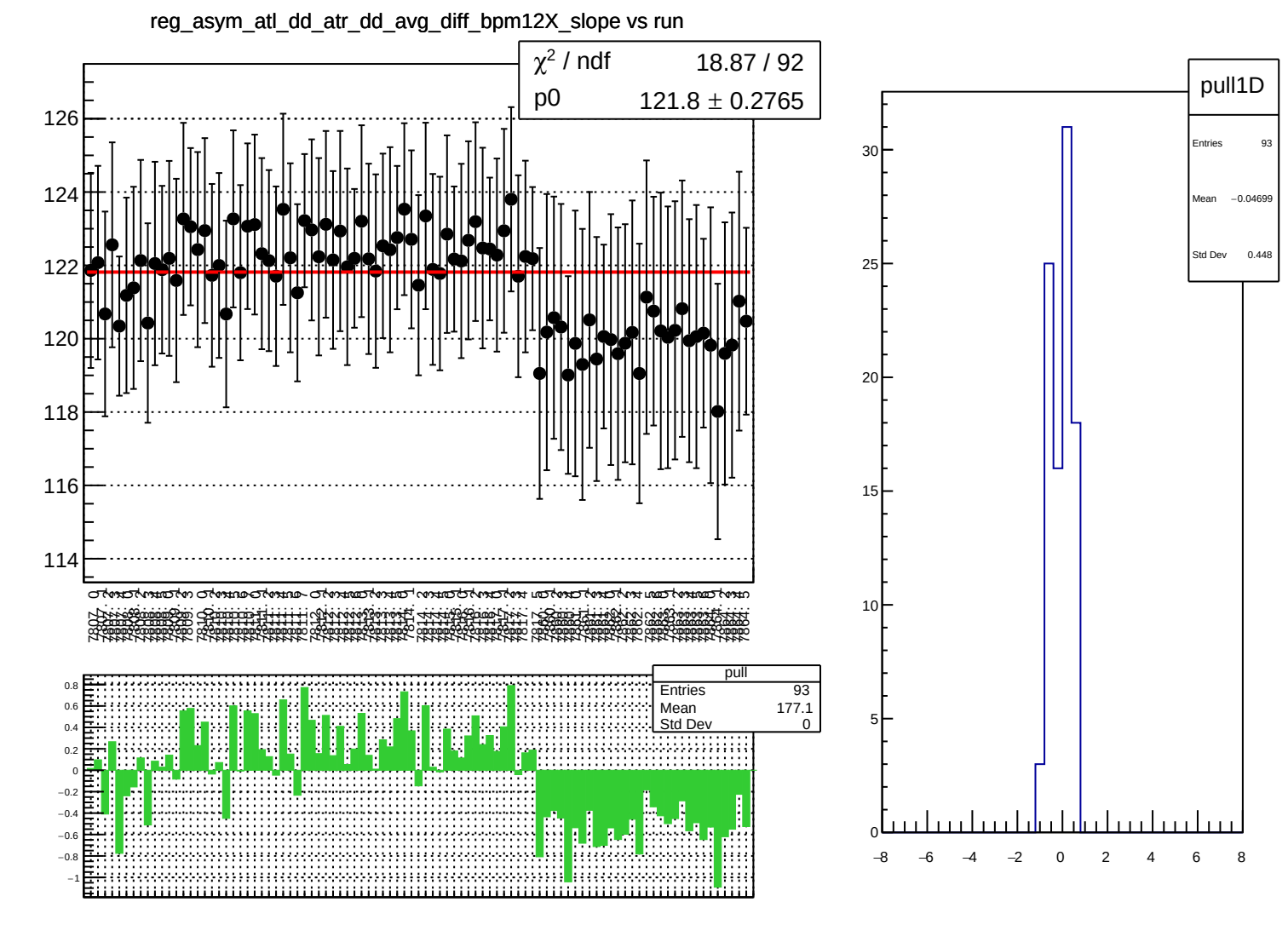

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 6.69 / 92
p0 107.9 ± 8.239
pull
Entries 93
Mean 277.9
Std Dev 0
pull1D
Entries 93
Mean −0.003804
Std Dev 0.2682

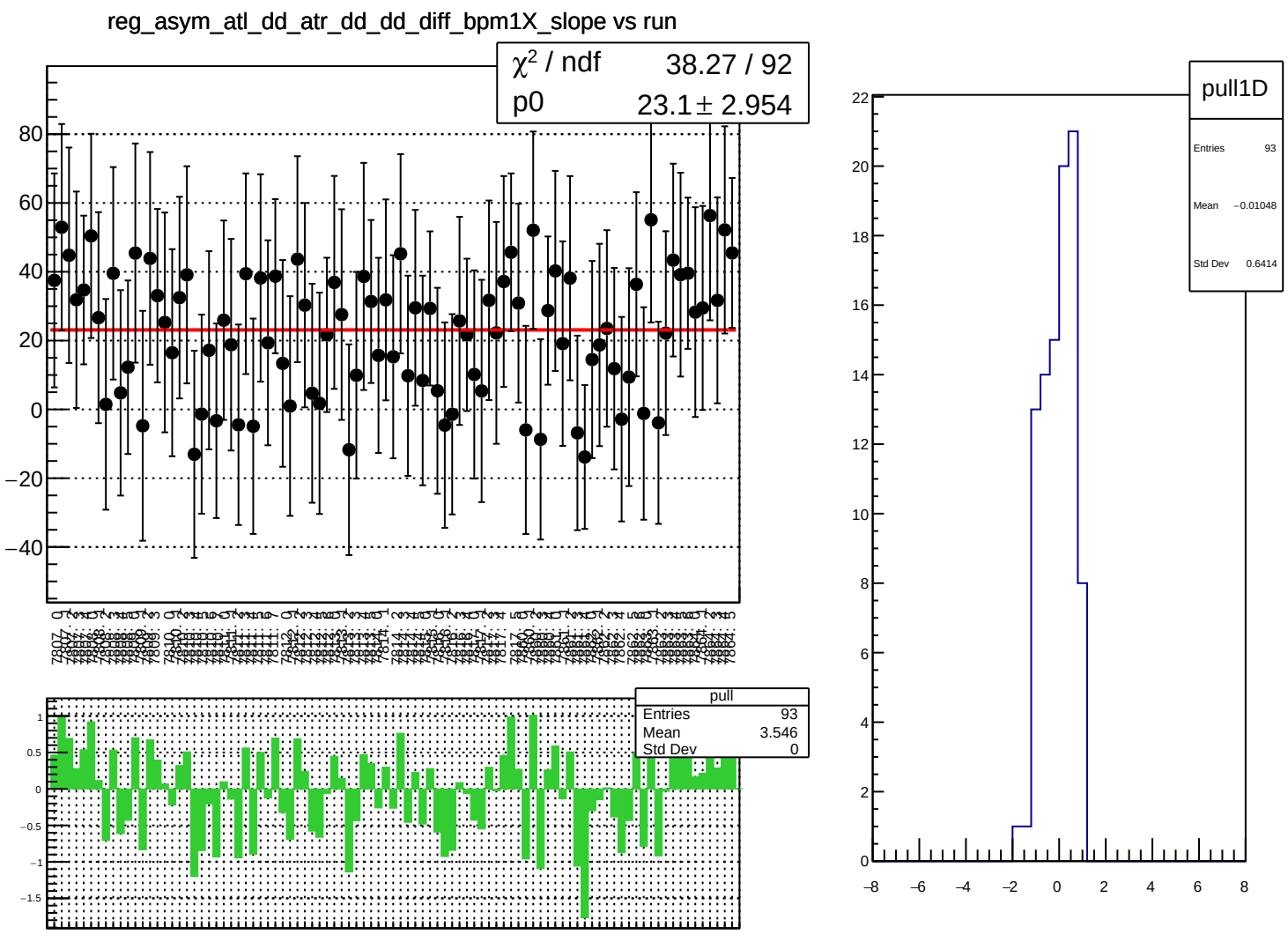

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.439 / 92
p0 −51.18 ± 8.365
pull
Entries 93
Mean 243.1
Std Dev 0
pull1D
Entries 93
Mean 0.0197
Std Dev 0.3006

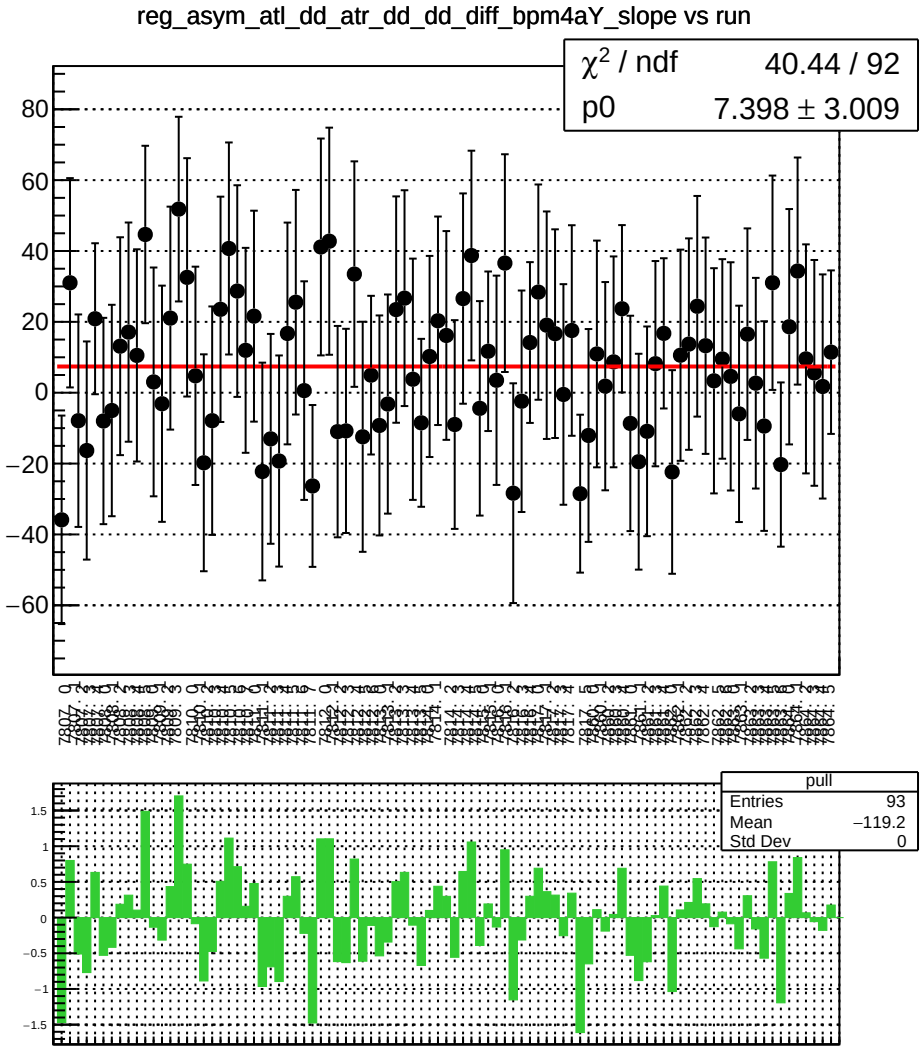

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 7.587 / 92
p0 −116.9 ± 7.461
pull
Entries 93
Mean 598.4
Std Dev 0

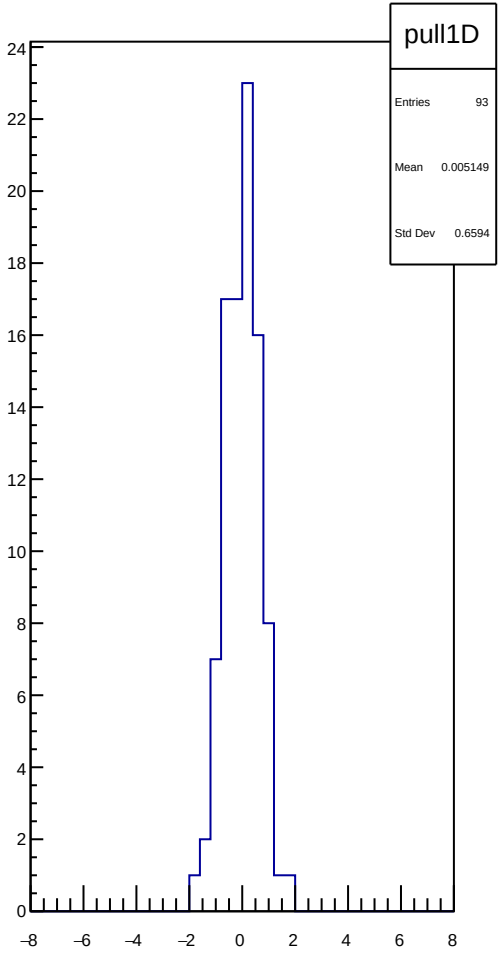

pull1D
Entries 93
Mean 0.00288
Std Dev 0.2856

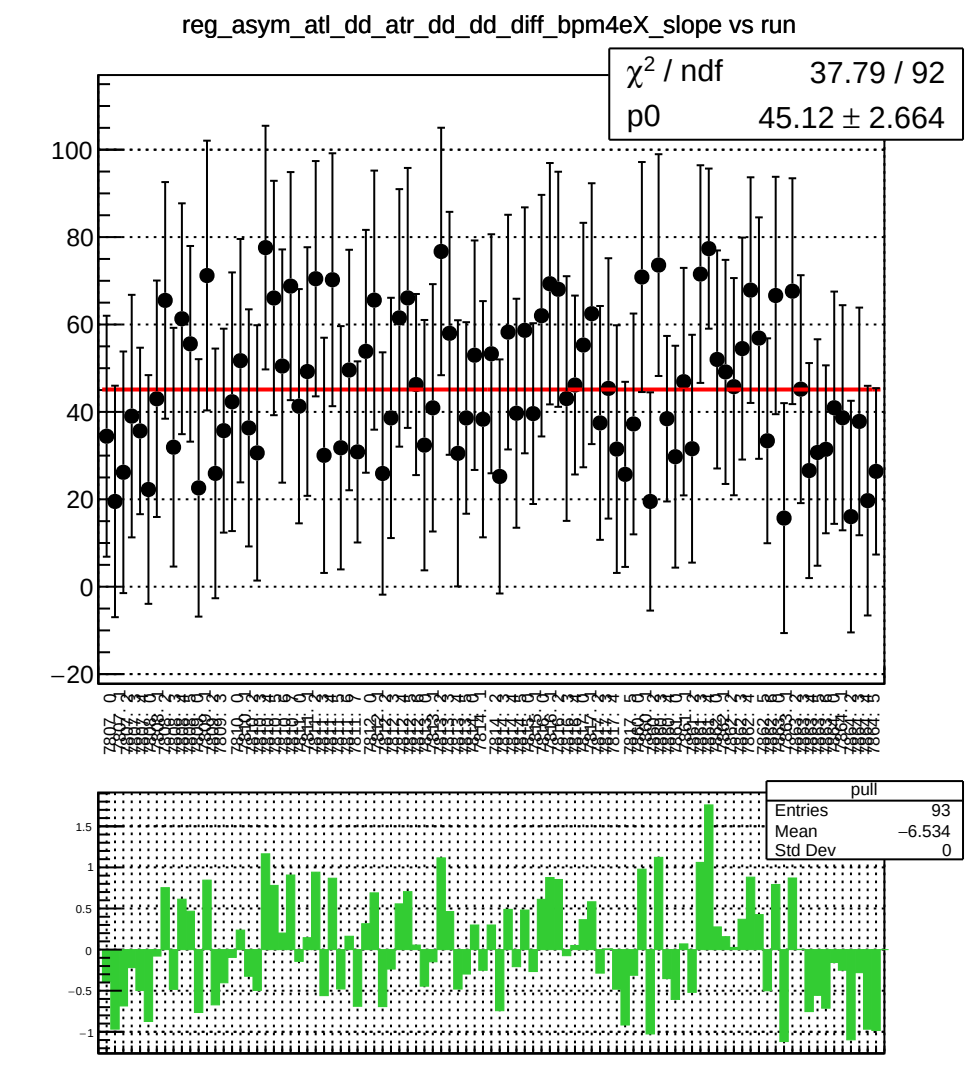

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.401 / 92
p0 −2.51 ± 9.525
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean 199.4
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 93
Mean −0.006486
Std Dev 0.2409
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

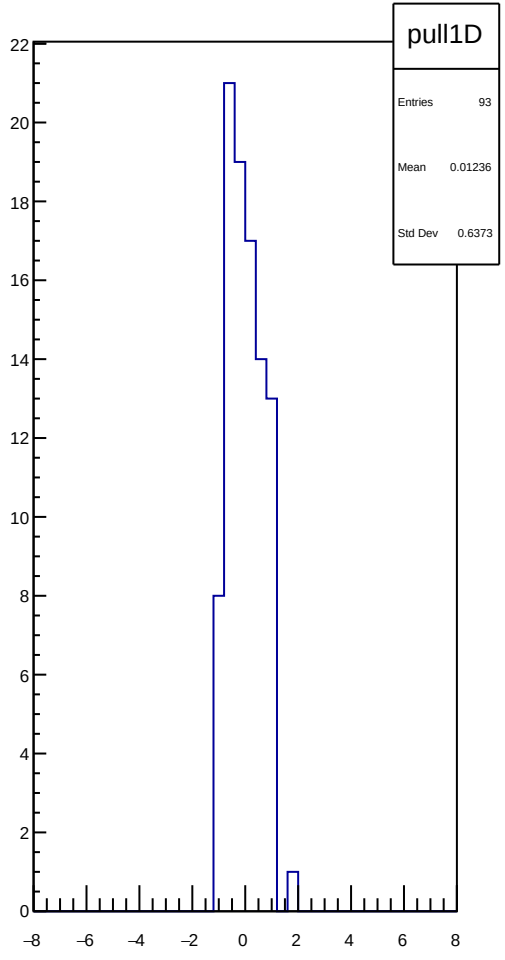

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 18.87 / 92
p0 121.8 ± 0.2765
126
124
122
120
118
116
114
pull
Entries 93
Mean 177.1
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 93
Mean −0.04699
Std Dev 0.448
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

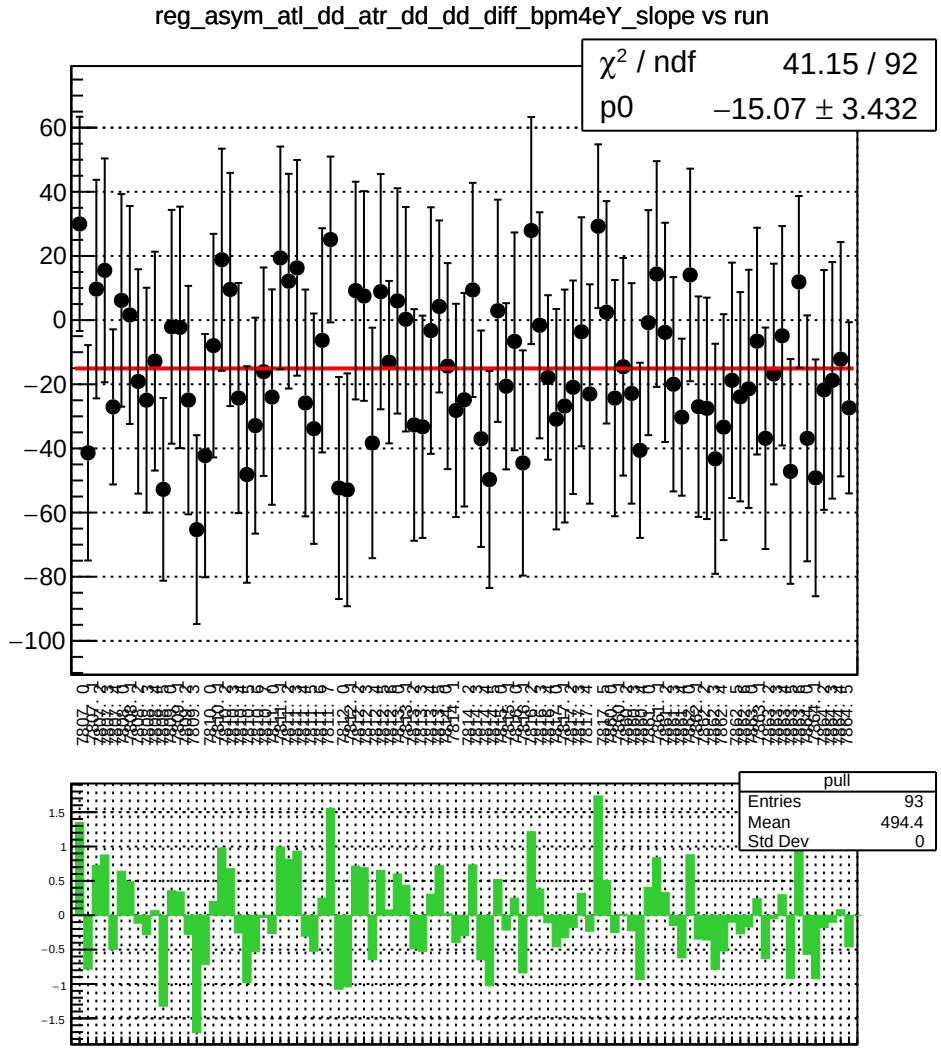

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 38.27 / 92
p0 23.1 ± 2.954
pull
Entries 93
Mean 3.546
Std Dev 0
pull1D
Entries 93
Mean −0.01048
Std Dev 0.6414

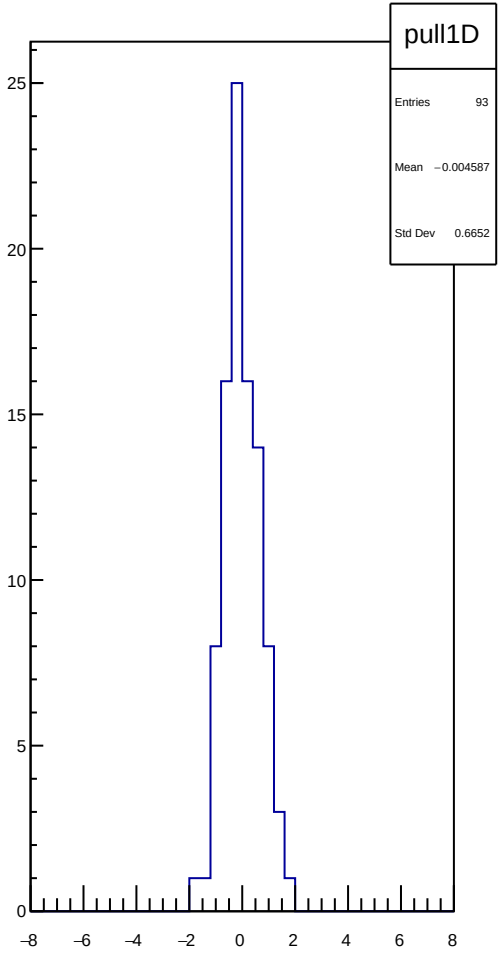

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 40.44 / 92
p0 7.398 ± 3.009
pull
Entries 93
Mean −119.2
Std Dev 0

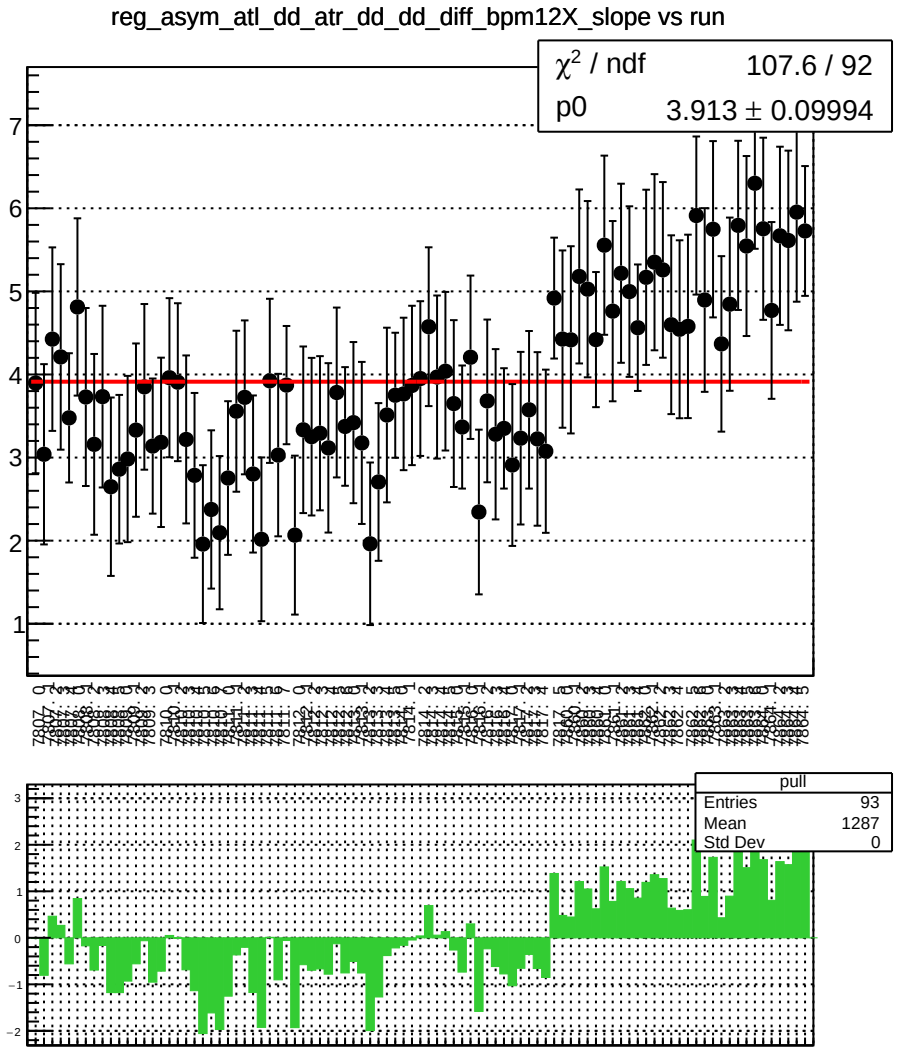

pull1D
Entries 93
Mean 0.005149
Std Dev 0.6594

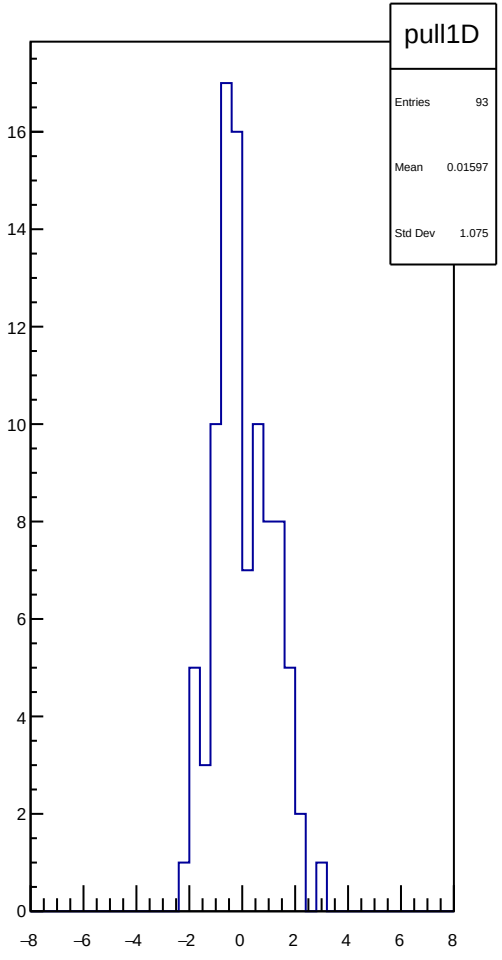

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 37.79 / 92
p0 45.12 ± 2.664
pull
Entries 93
Mean −6.534
Std Dev 0

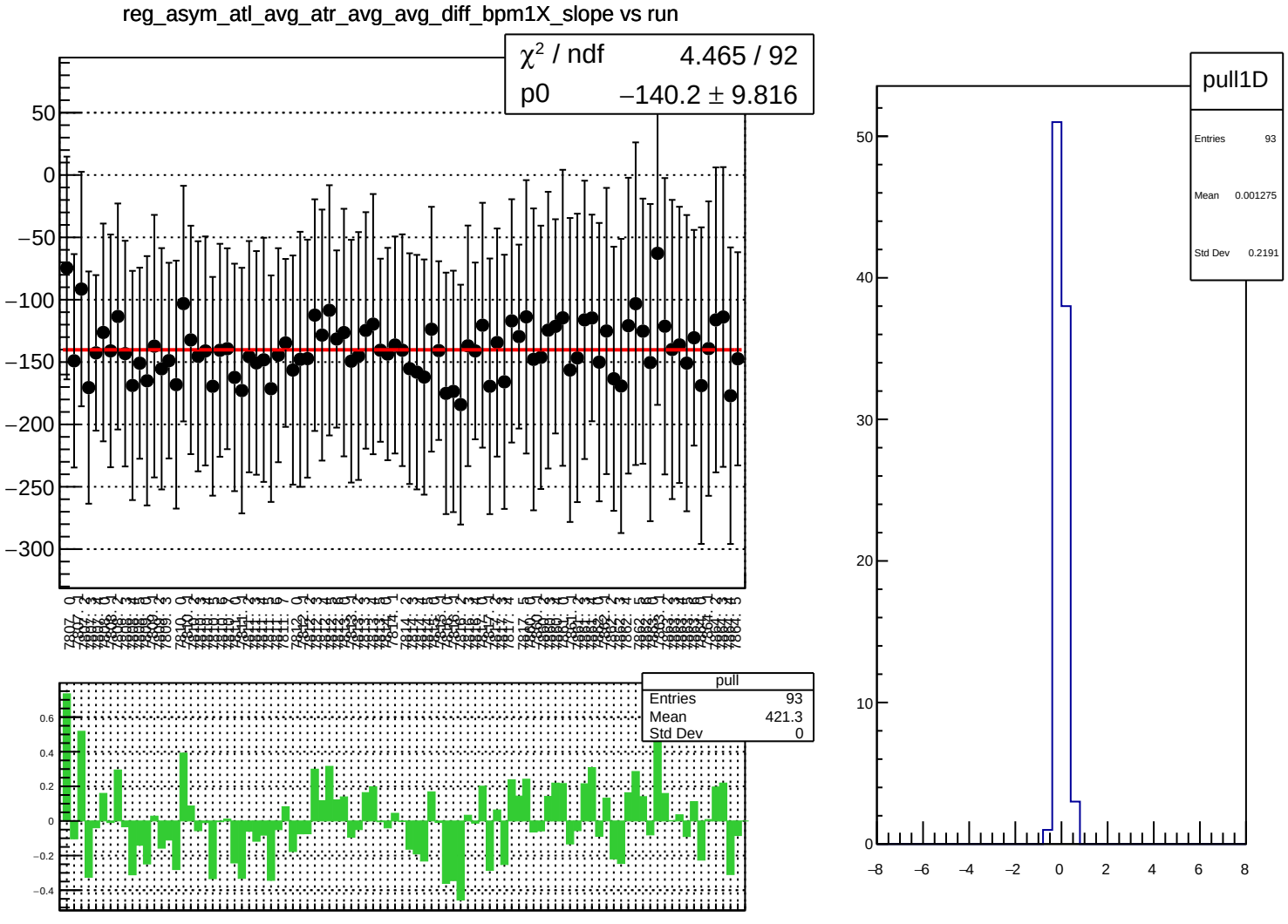

pull1D
Entries 93
Mean 0.01236
Std Dev 0.6373

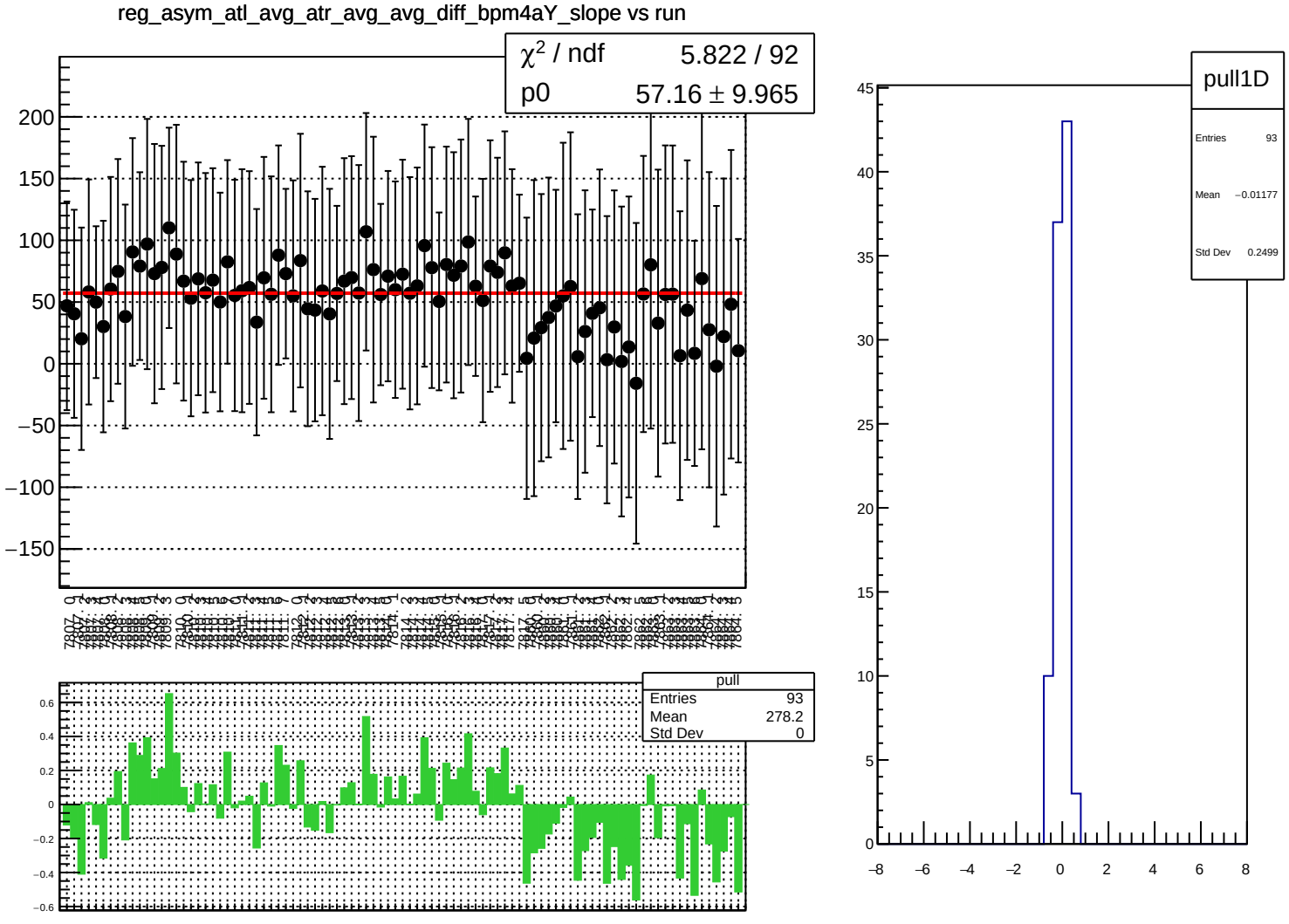

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 41.15 / 92
p0 −15.07 ± 3.432
pull
Entries 93
Mean 494.4
Std Dev 0

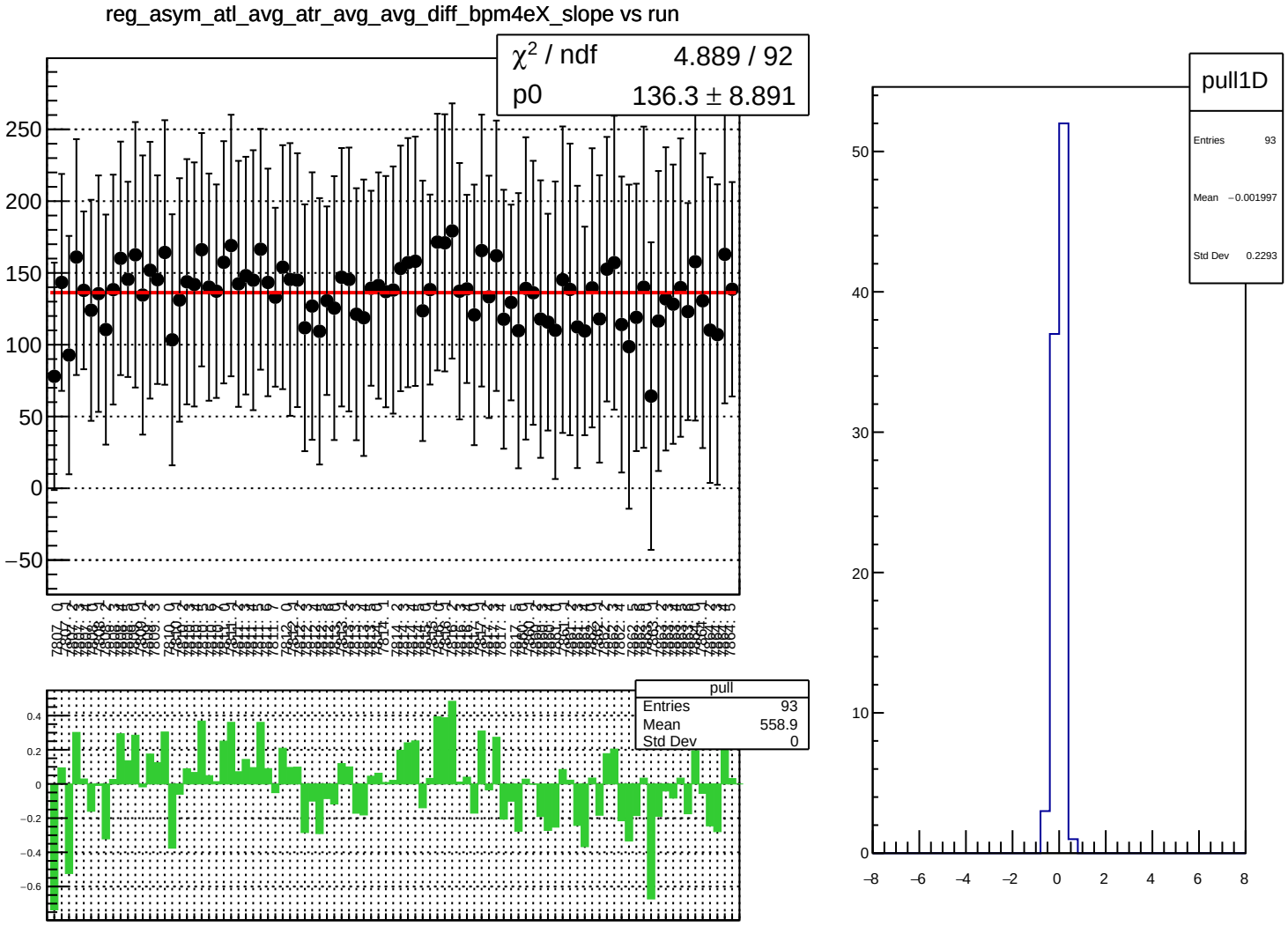

pull1D
Entries 93
Mean −0.004587
Std Dev 0.6652

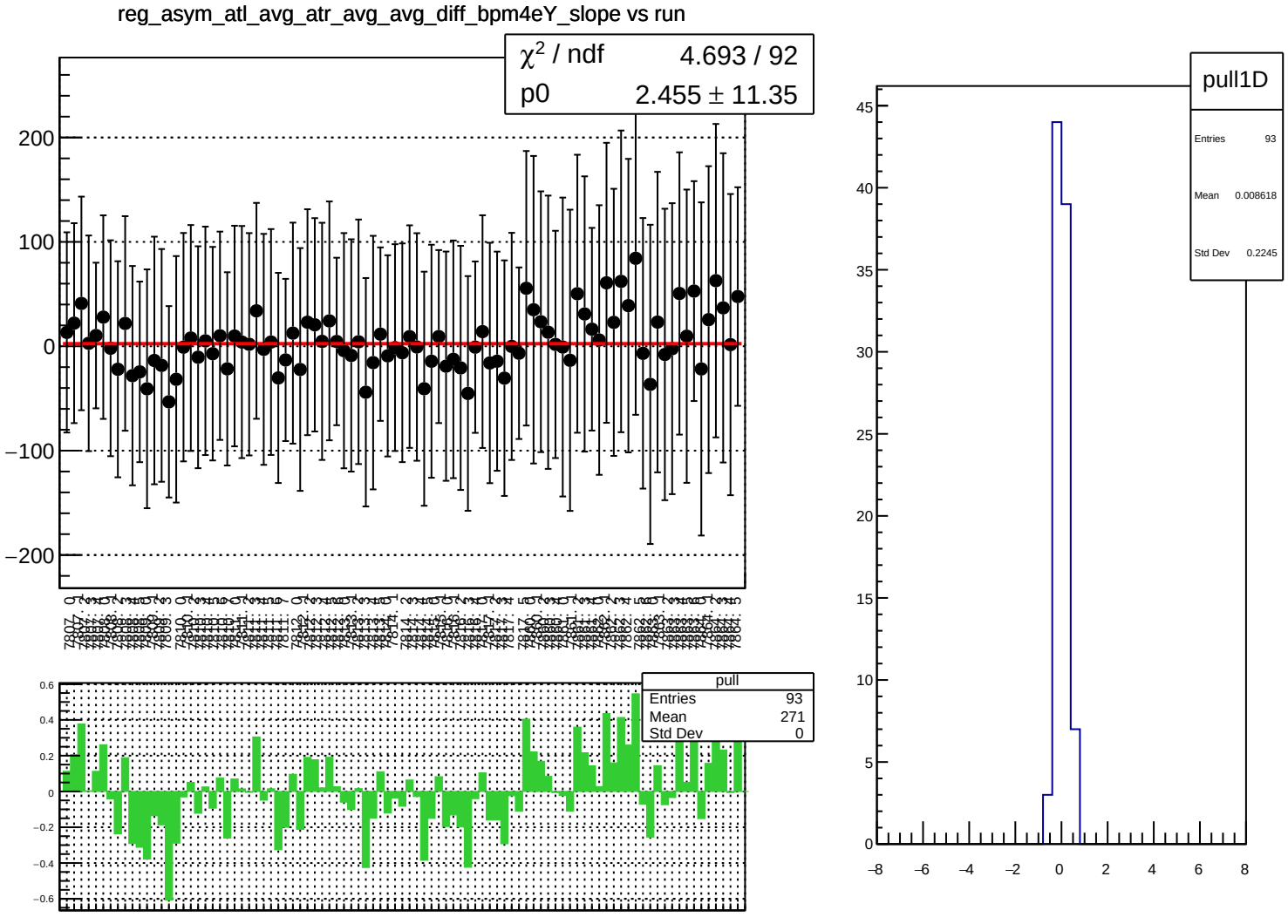

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 107.6 / 92
p0 3.913 ± 0.09994
pull
Entries 93
Mean 1287
Std Dev 0

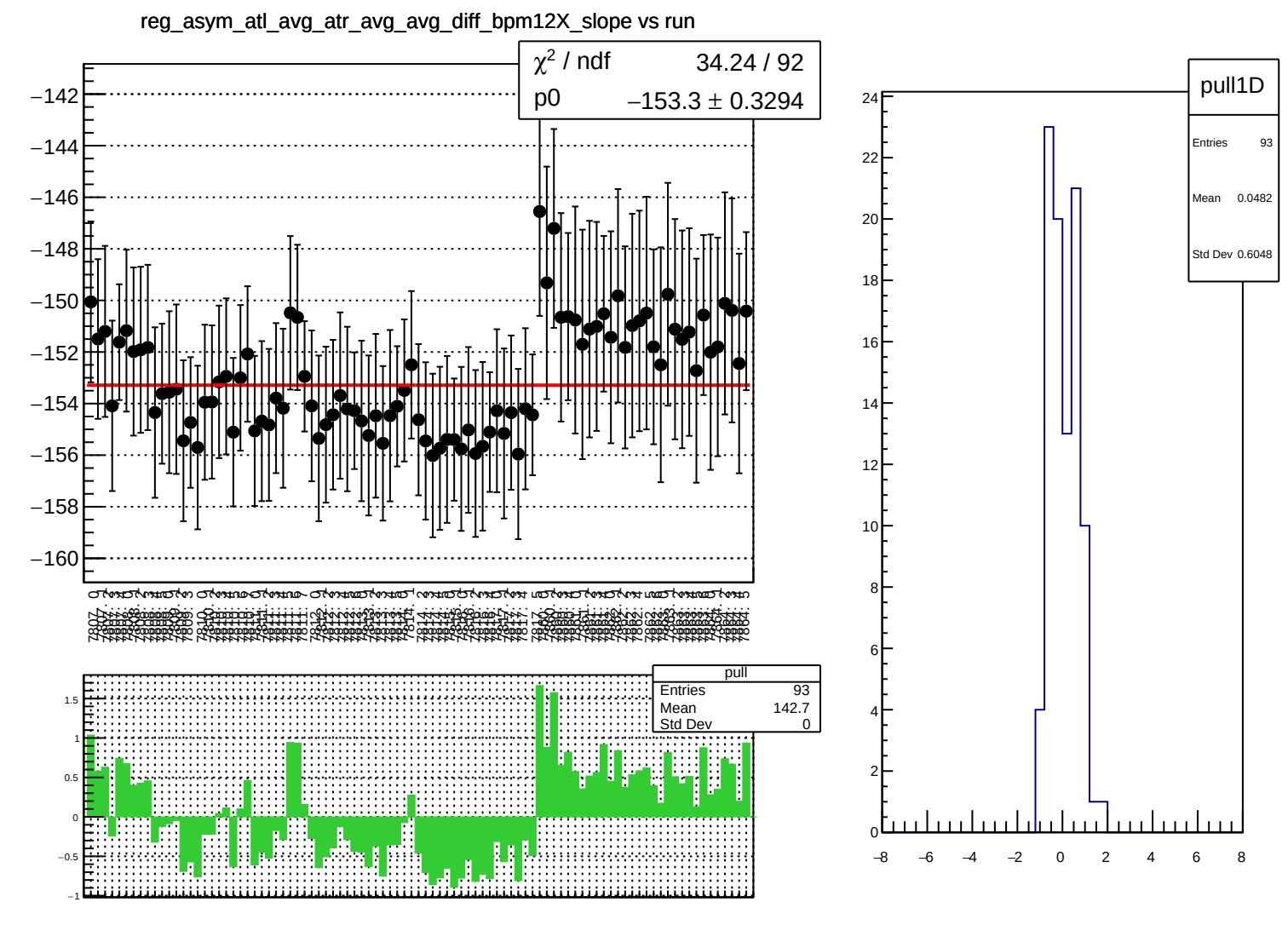

pull1D
Entries 93
Mean 0.01597
Std Dev 1.075

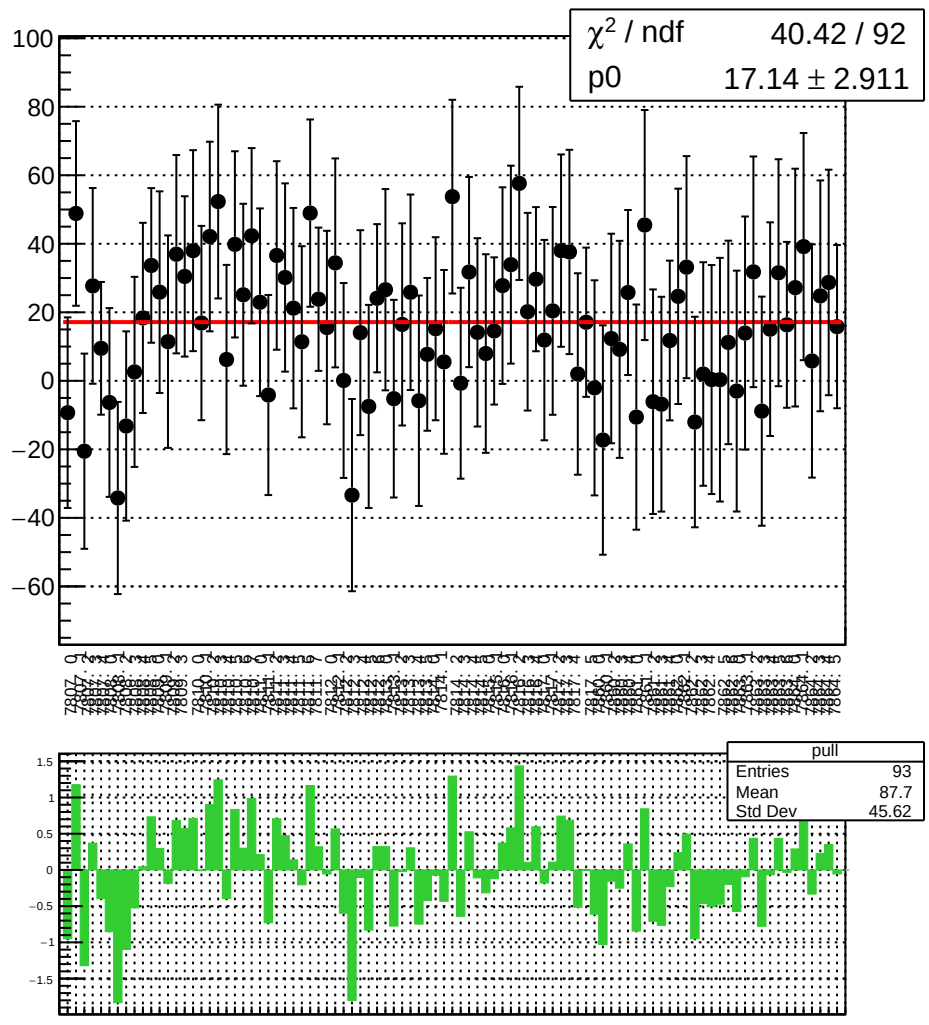

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 4.465 / 92
p0 −140.2 ± 9.816
pull
Entries 93
Mean 421.3
Std Dev 0
pull1D
Entries 93
Mean 0.001275
Std Dev 0.2191

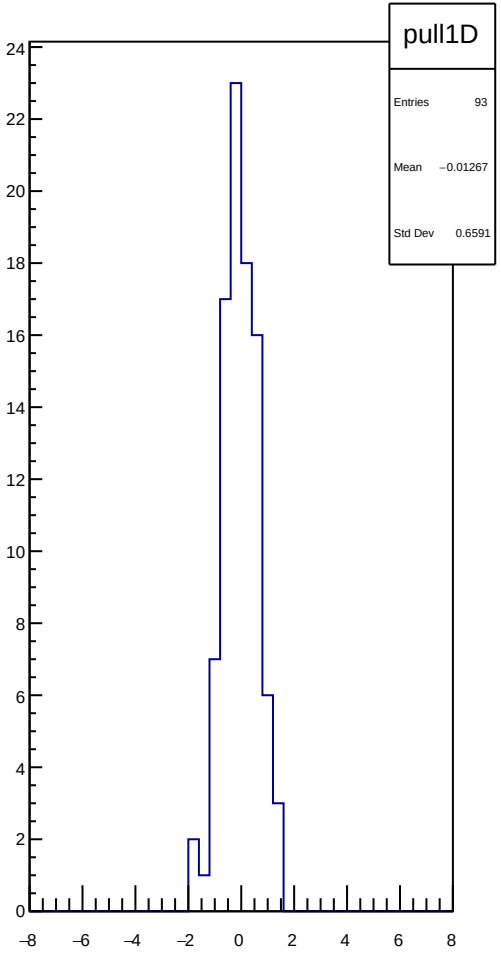

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.822 / 92
p0 57.16 ± 9.965
pull
Entries 93
Mean 278.2
Std Dev 0
pull1D
Entries 93
Mean −0.01177
Std Dev 0.2499

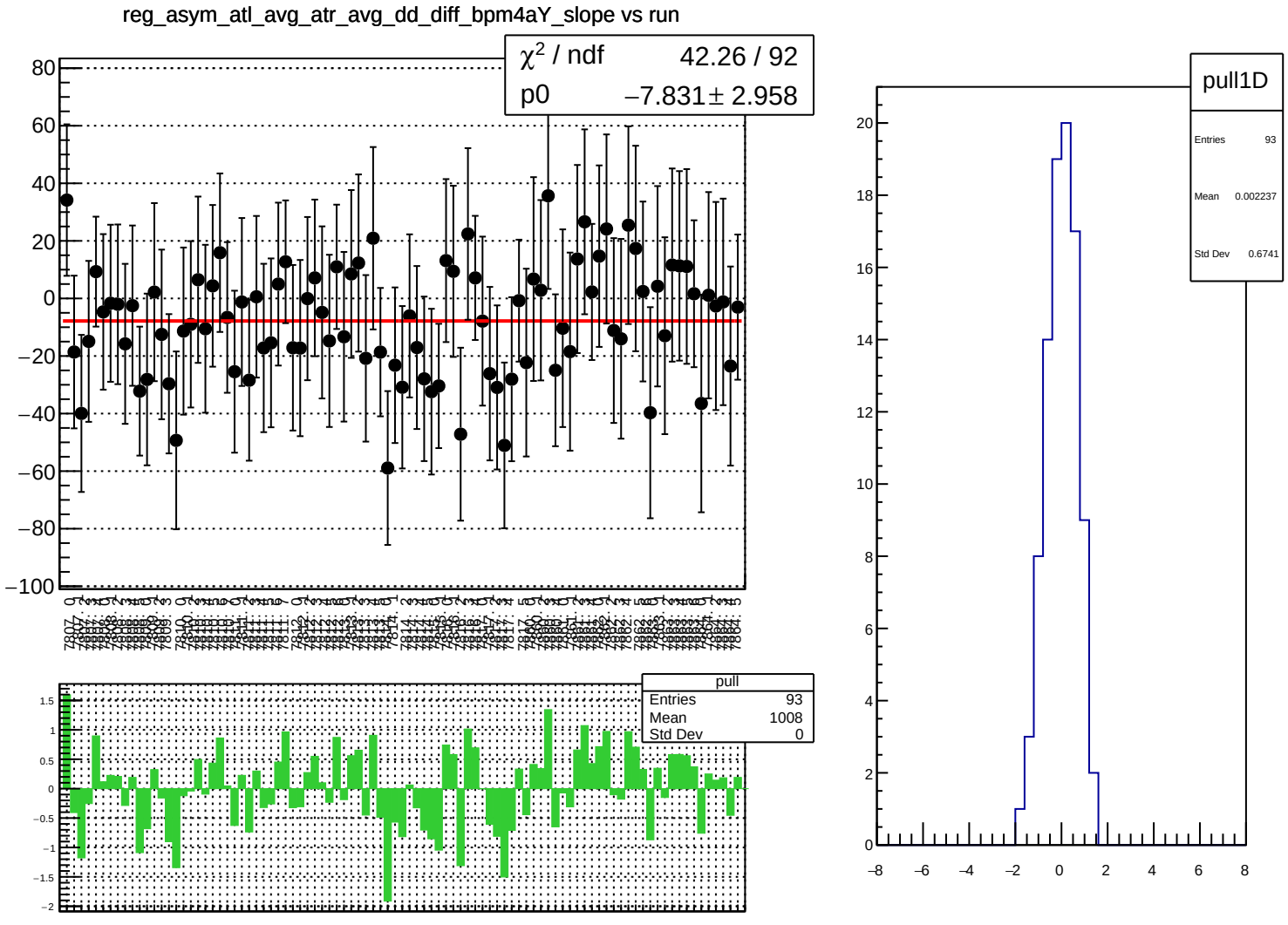

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.889 / 92
p0 136.3 ± 8.891
250
200
150
100
50
0
−50
pull
Entries 93
Mean 558.9
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 93
Mean −0.001997
Std Dev 0.2293
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

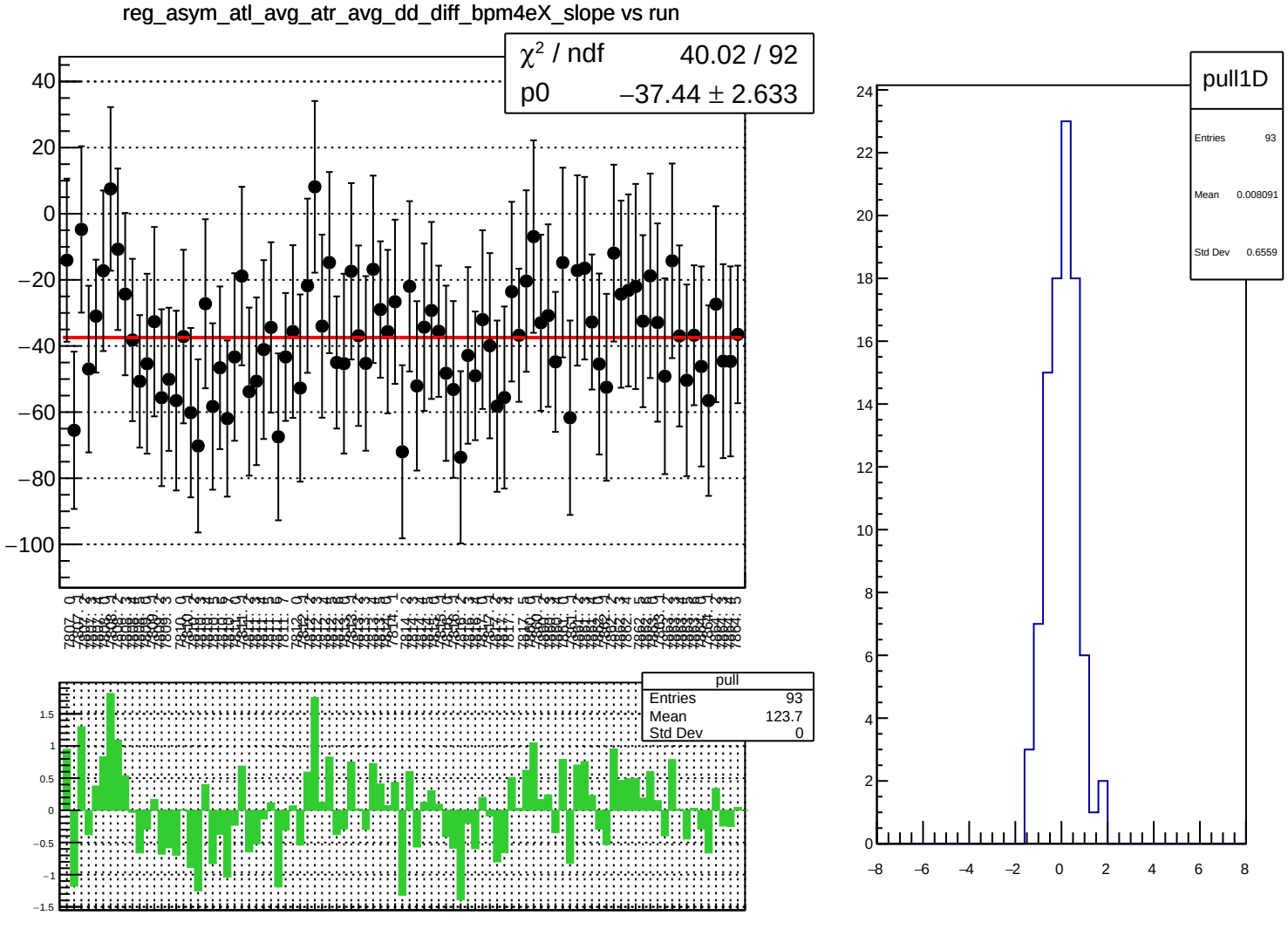

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.693 / 92
p0 2.455 ± 11.35
200
100
0
−100
−200
pull
Entries 93
Mean 271
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 93
Mean 0.008618
Std Dev 0.2245
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

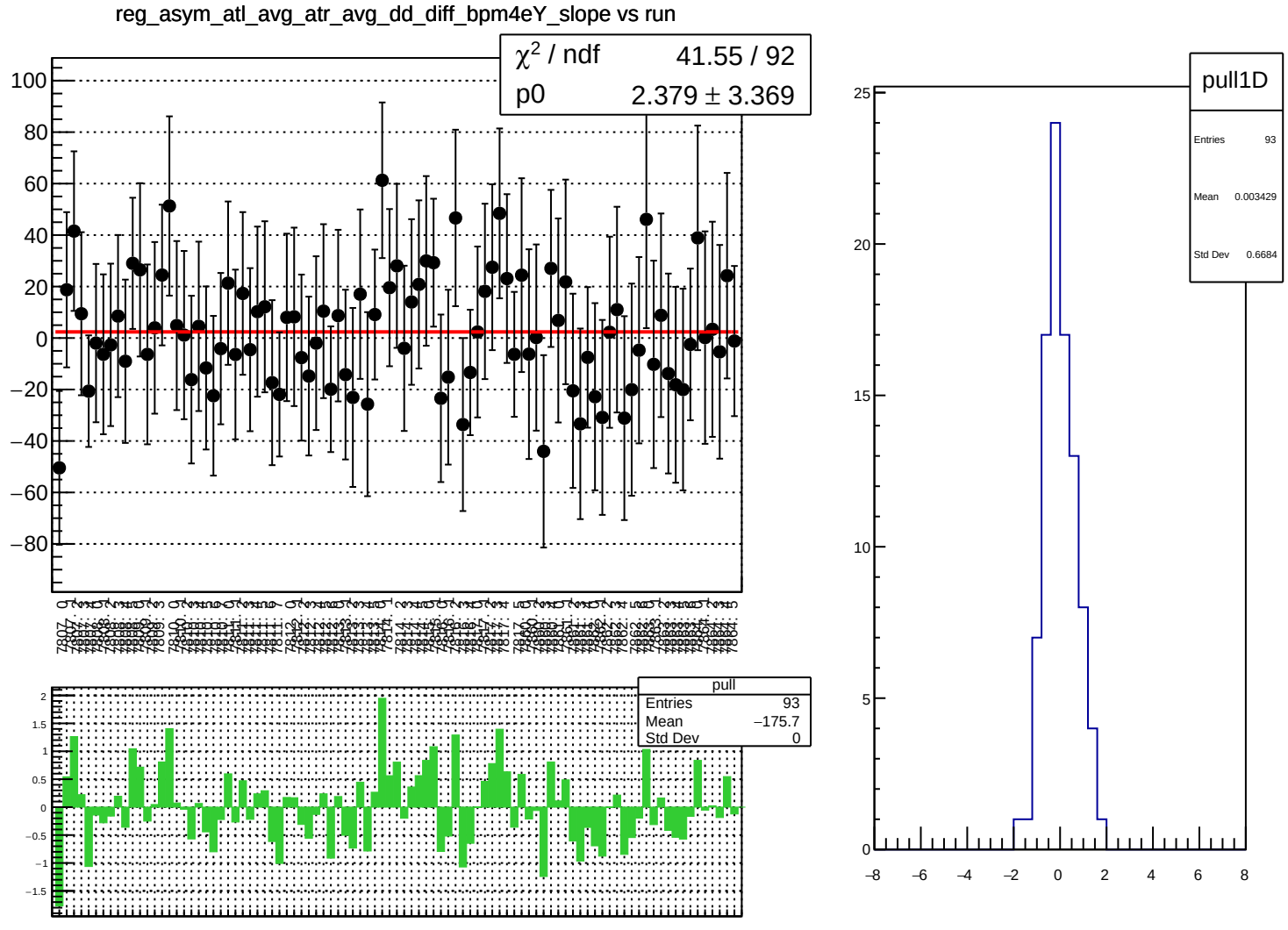

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 34.24 / 92
p0 −153.3 ± 0.3294
pull
Entries 93
Mean 142.7
Std Dev 0
pull1D
Entries 93
Mean 0.0482
Std Dev 0.6048

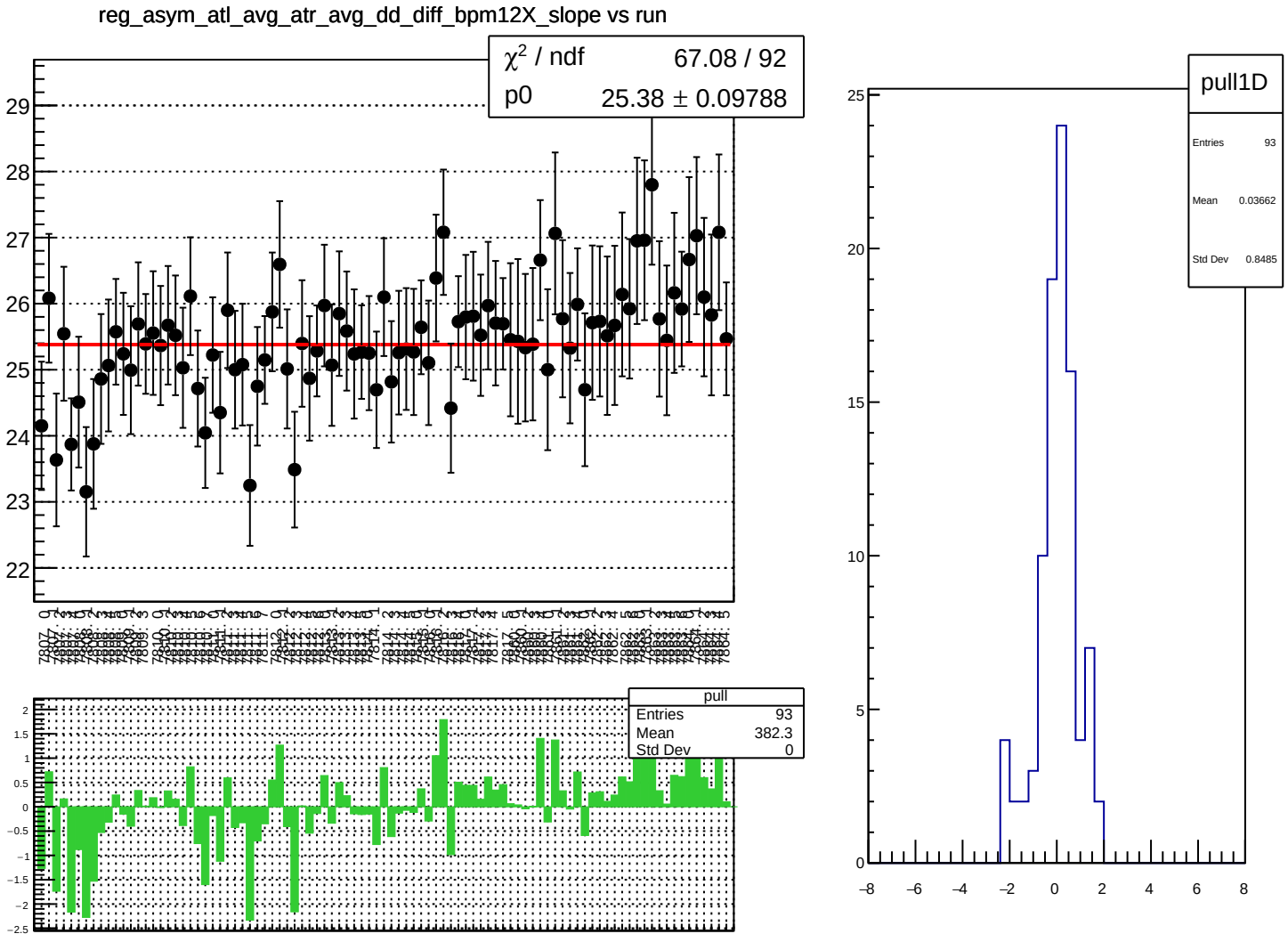

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 40.42 / 92
p0 17.14 ± 2.911
pull
Entries 93
Mean 87.7
Std Dev 45.62

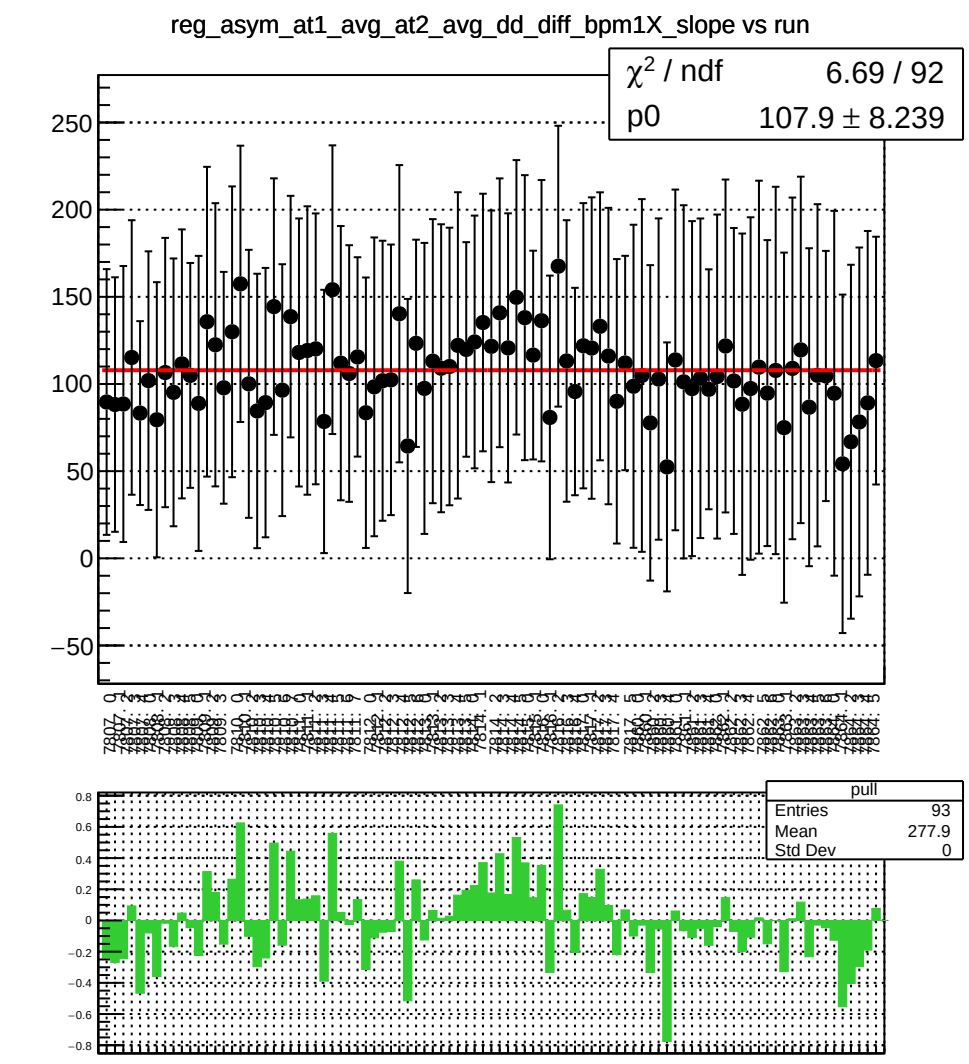

pull1D
Entries 93
Mean −0.01267
Std Dev 0.6591

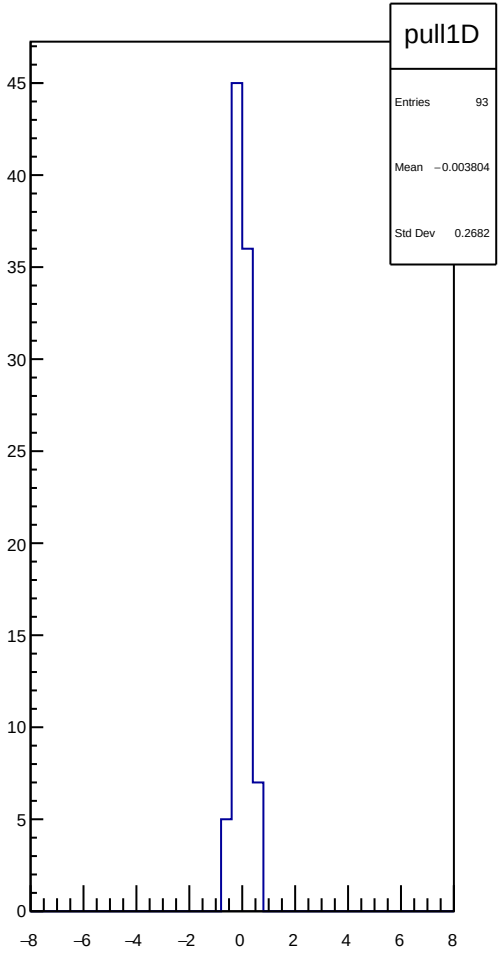

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 42.26 / 92
p0 −7.831 ± 2.958
pull
Entries 93
Mean 1008
Std Dev 0
pull1D
Entries 93
Mean 0.002237
Std Dev 0.6741

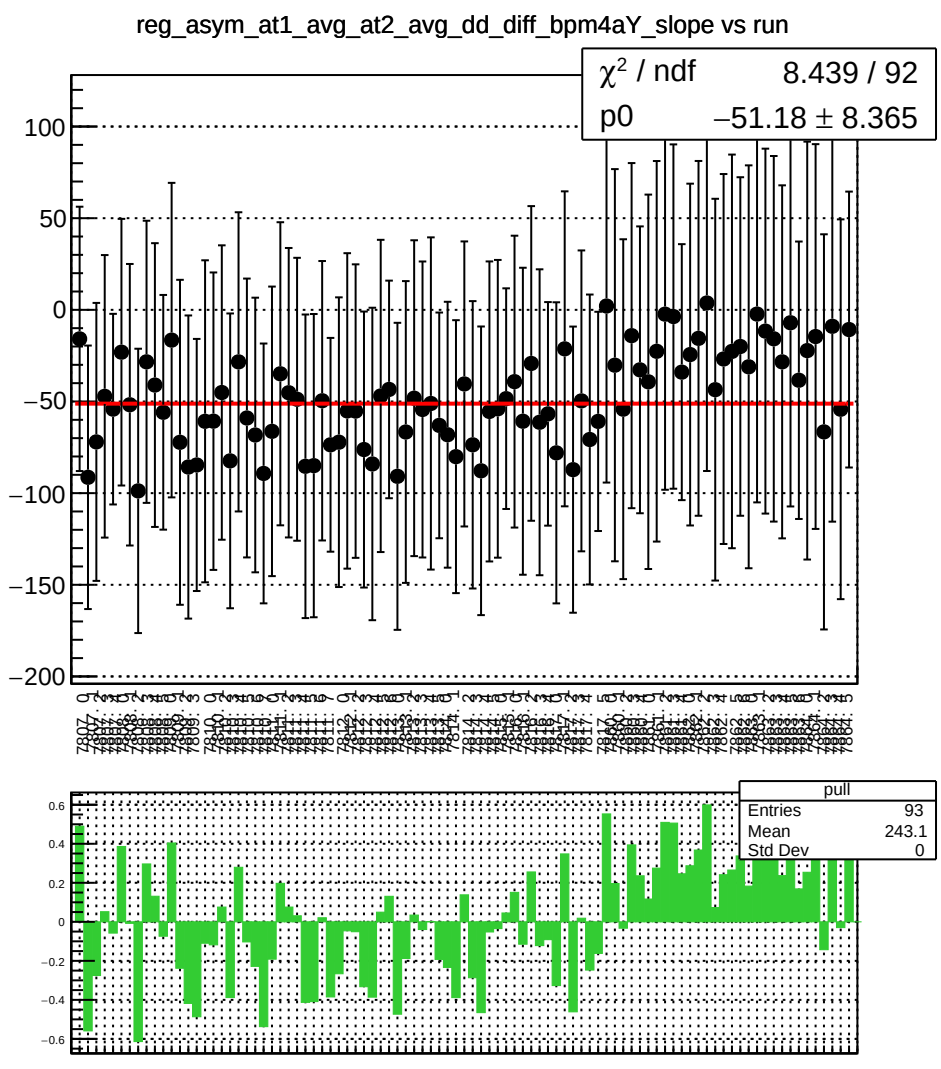

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 40.02 / 92
p0 −37.44 ± 2.633
pull
Entries 93
Mean 123.7
Std Dev 0
pull1D
Entries 93
Mean 0.008091
Std Dev 0.6559

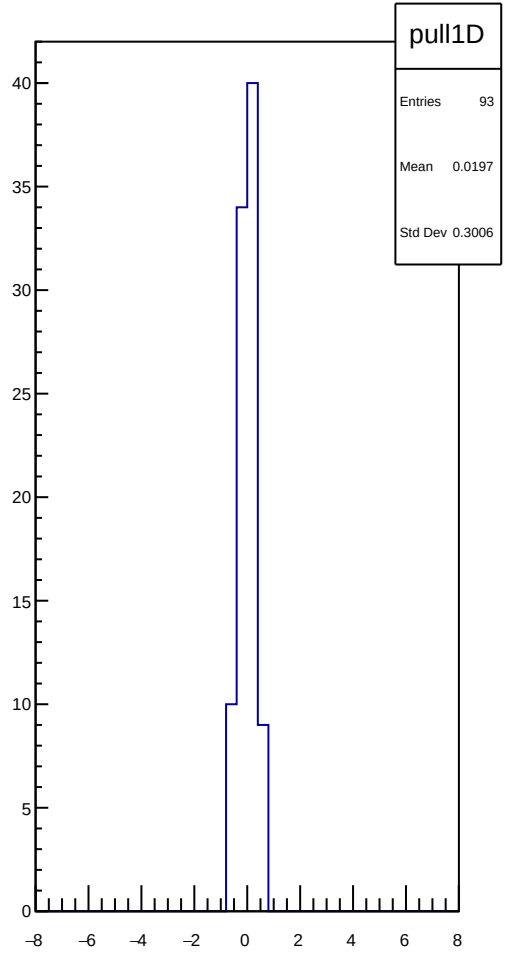

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 41.55 / 92
p0 2.379 ± 3.369
pull
Entries 93
Mean −175.7
Std Dev 0
pull1D
Entries 93
Mean 0.003429
Std Dev 0.6684

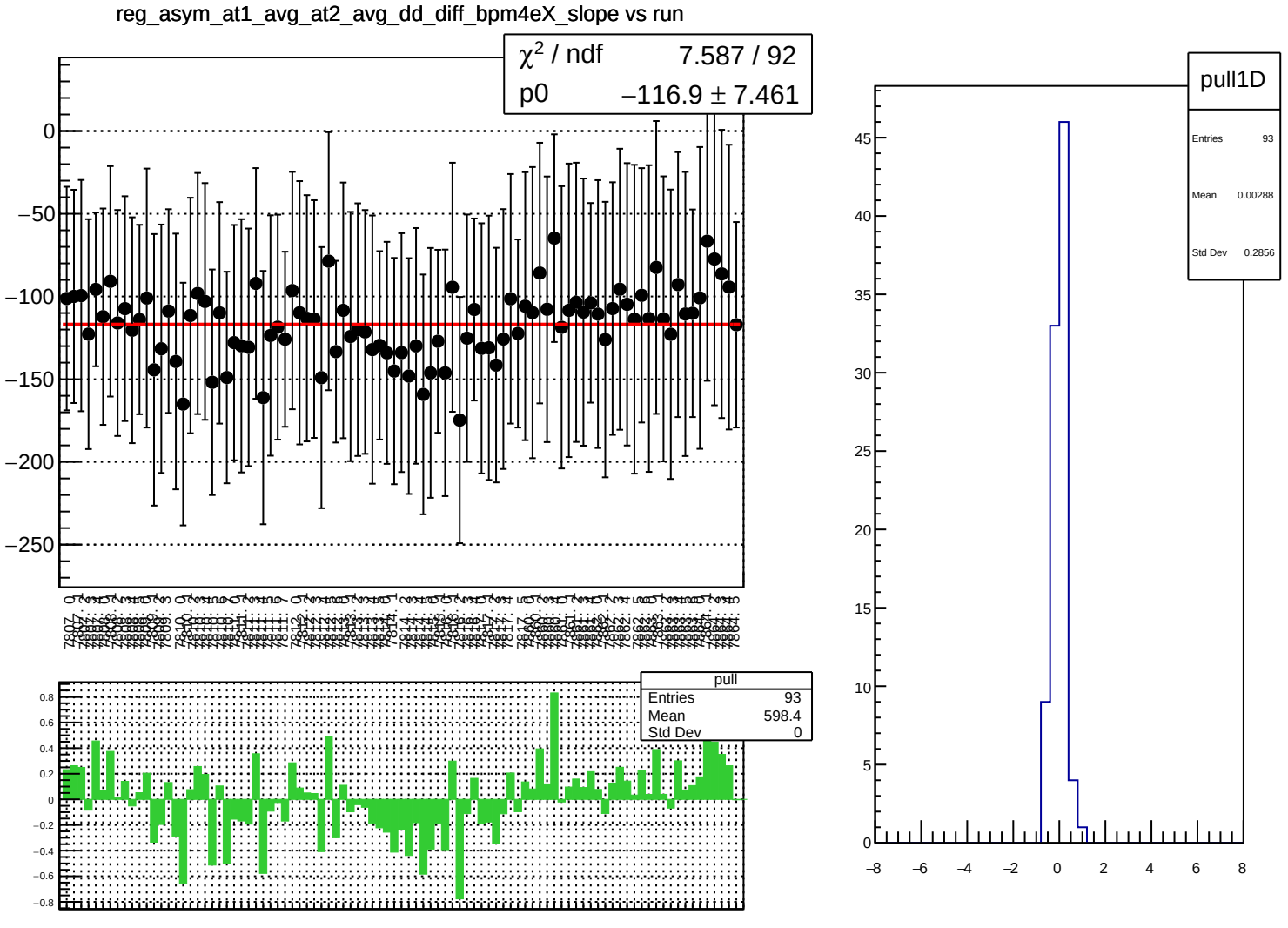

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 67.08 / 92
p0 25.38 ± 0.09788
pull
Entries 93
Mean 382.3
Std Dev 0
pull1D
Entries 93
Mean 0.03662
Std Dev 0.8485

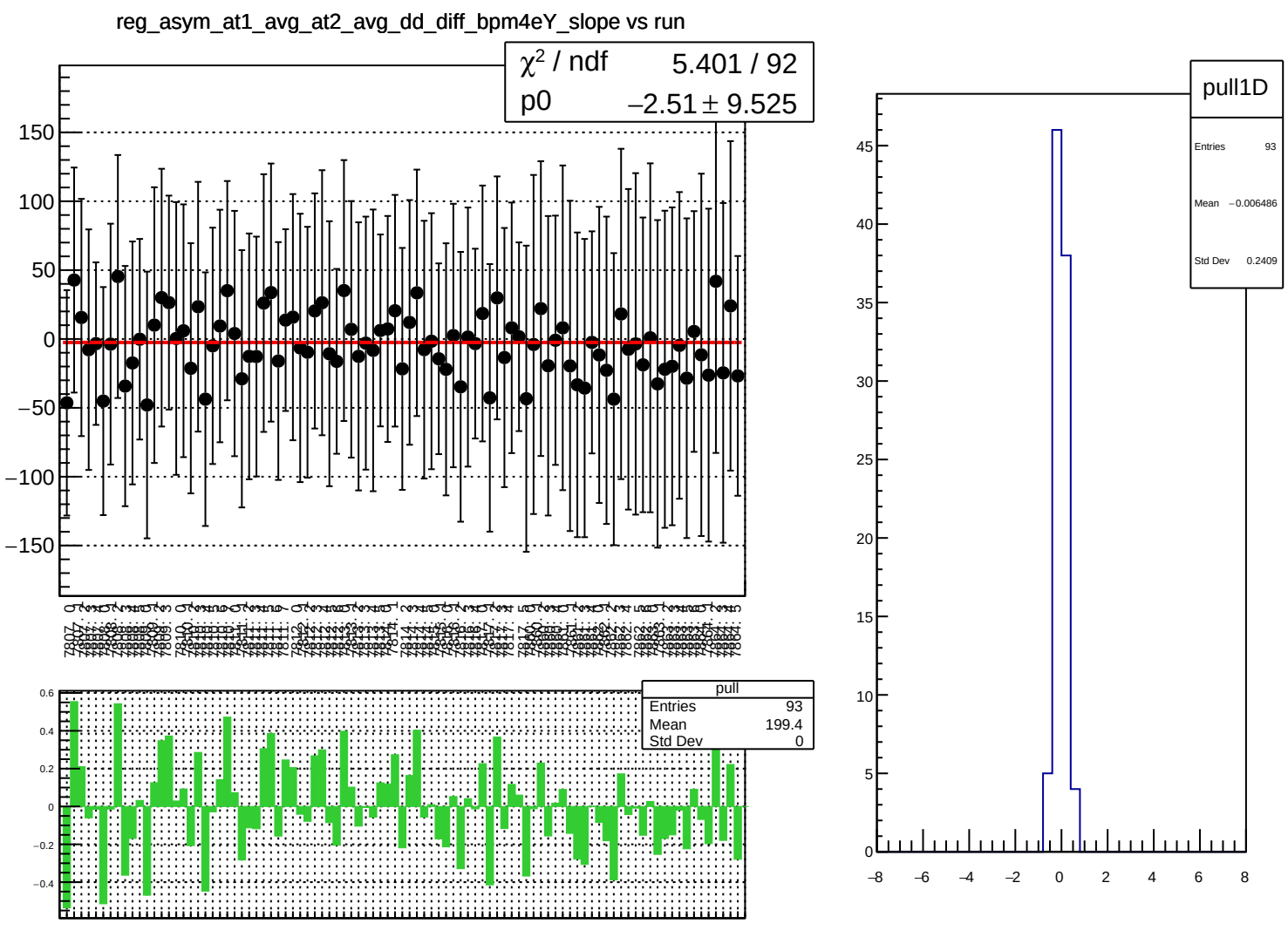

reg_asym_at1_avg_at2_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 6.69 / 92
p0 107.9 ± 8.239
pull
Entries 93
Mean 277.9
Std Dev 0

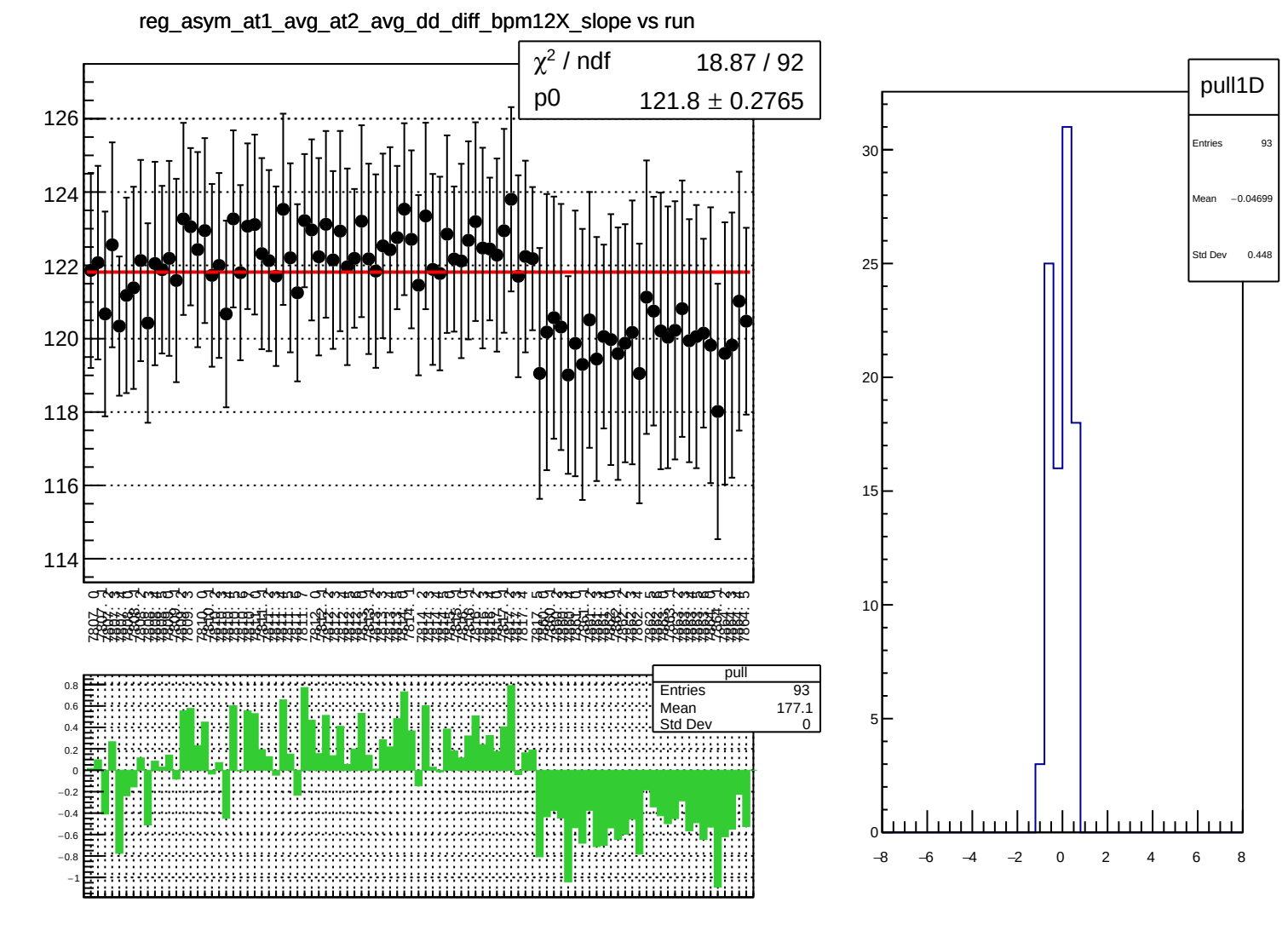

pull1D
Entries 93
Mean −0.003804
Std Dev 0.2682

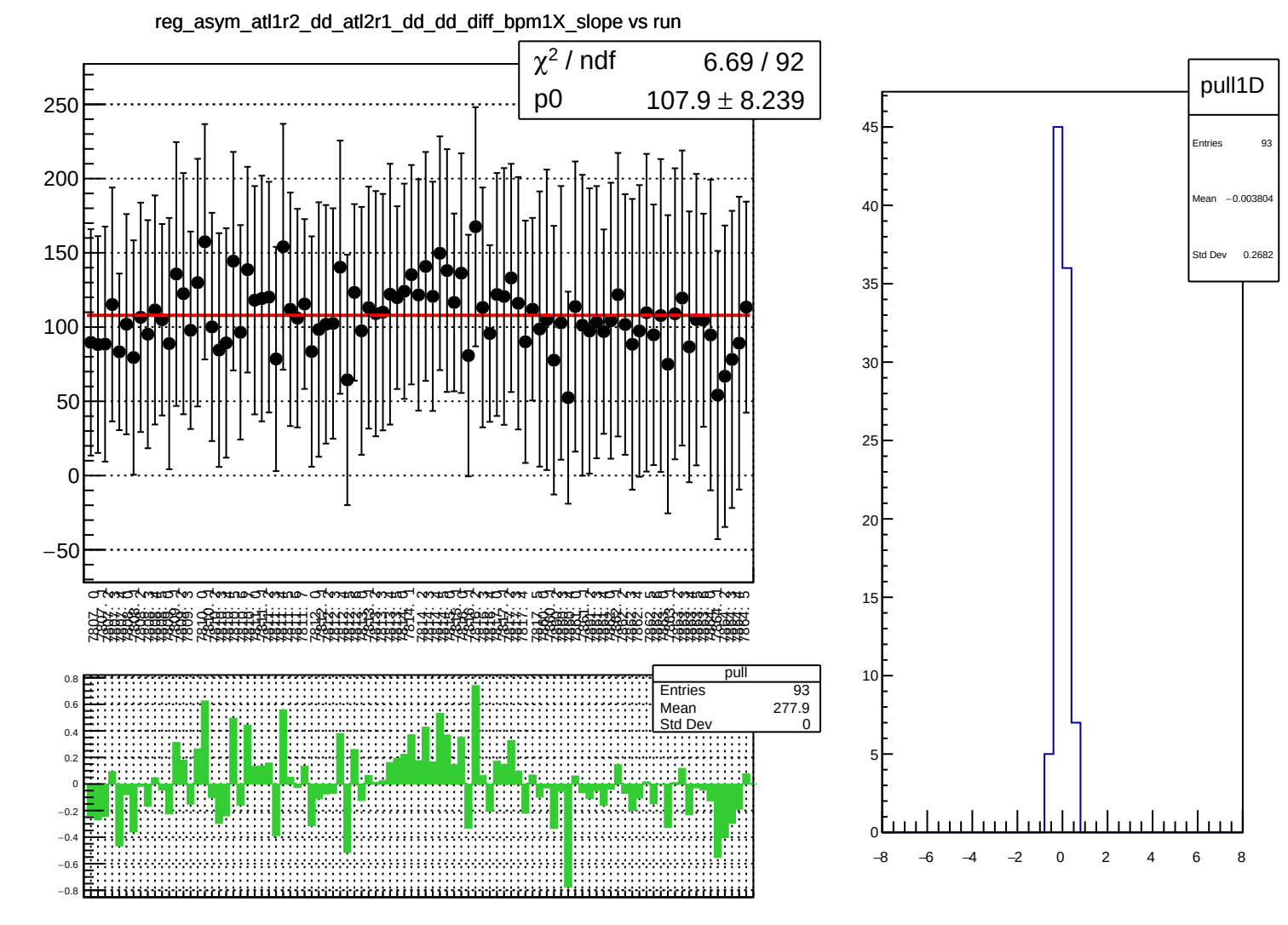

reg_asym_at1_avg_at2_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.439 / 92
p0 −51.18 ± 8.365
pull
Entries 93
Mean 243.1
Std Dev 0

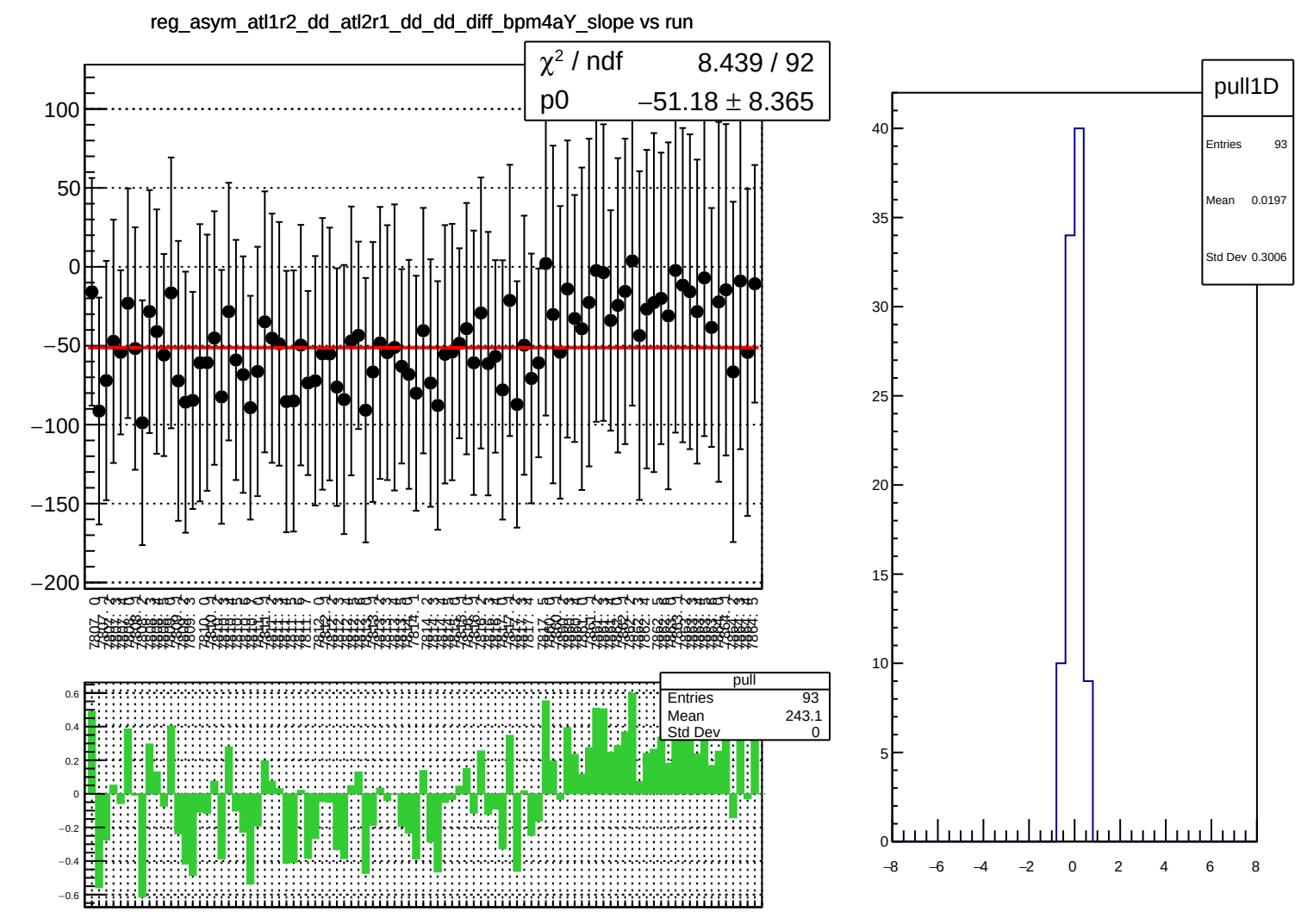

pull1D
Entries 93
Mean 0.0197
Std Dev 0.3006

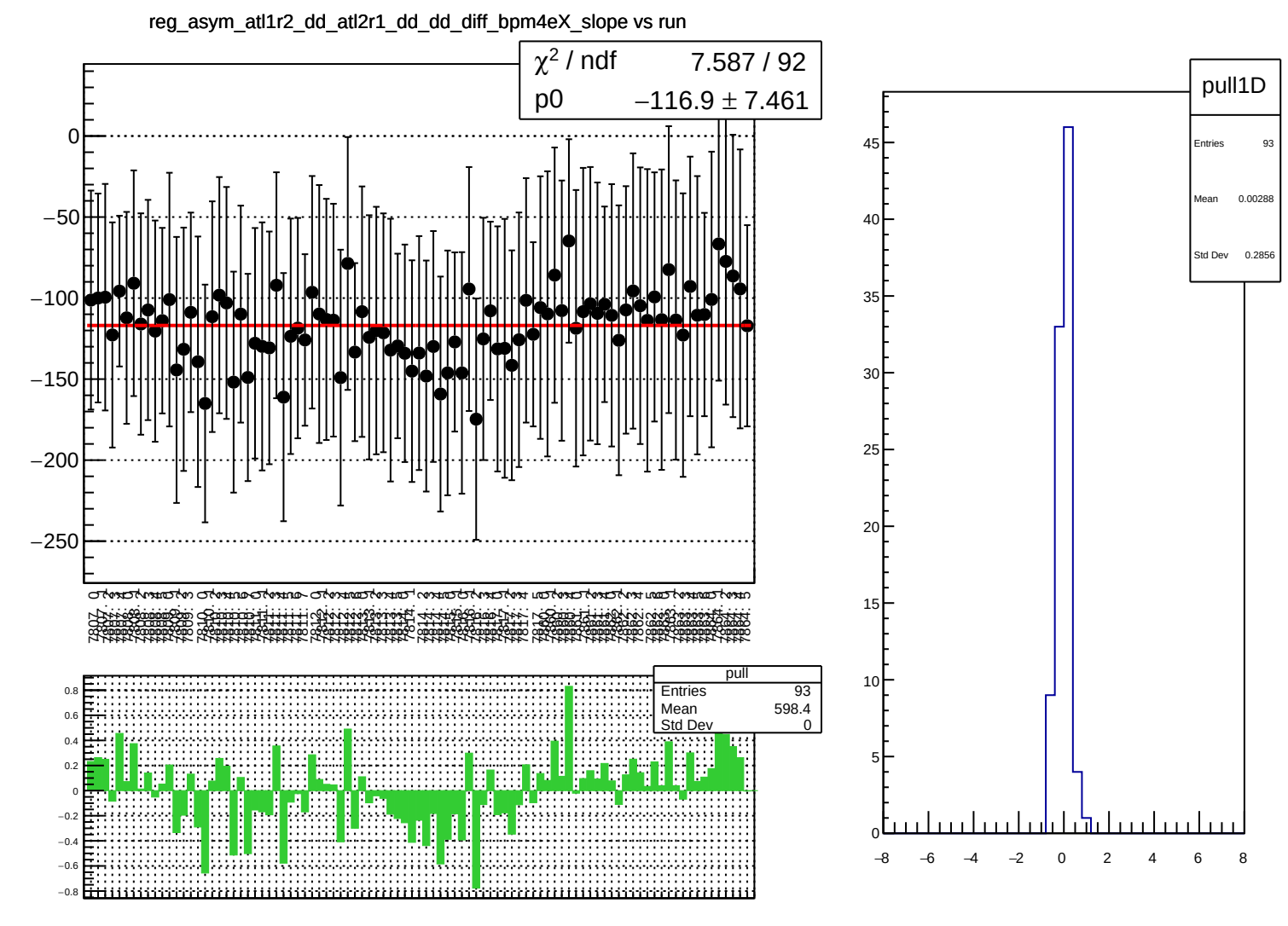

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.587 / 92
p0 −116.9 ± 7.461
pull
Entries 93
Mean 598.4
Std Dev 0
pull1D
Entries 93
Mean 0.00288
Std Dev 0.2856

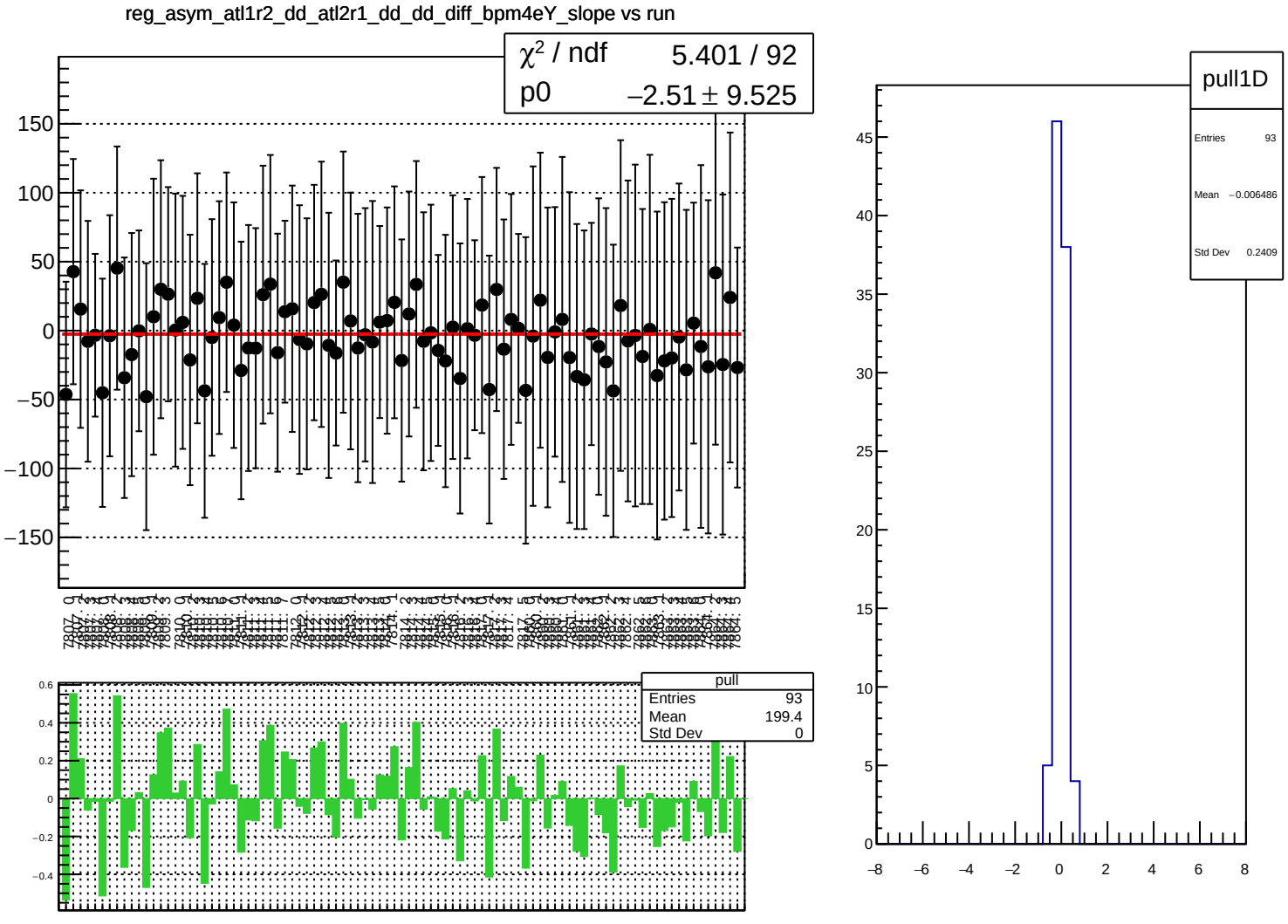

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.401 / 92
p0 −2.51 ± 9.525
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean 199.4
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 93
Mean −0.006486
Std Dev 0.2409
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

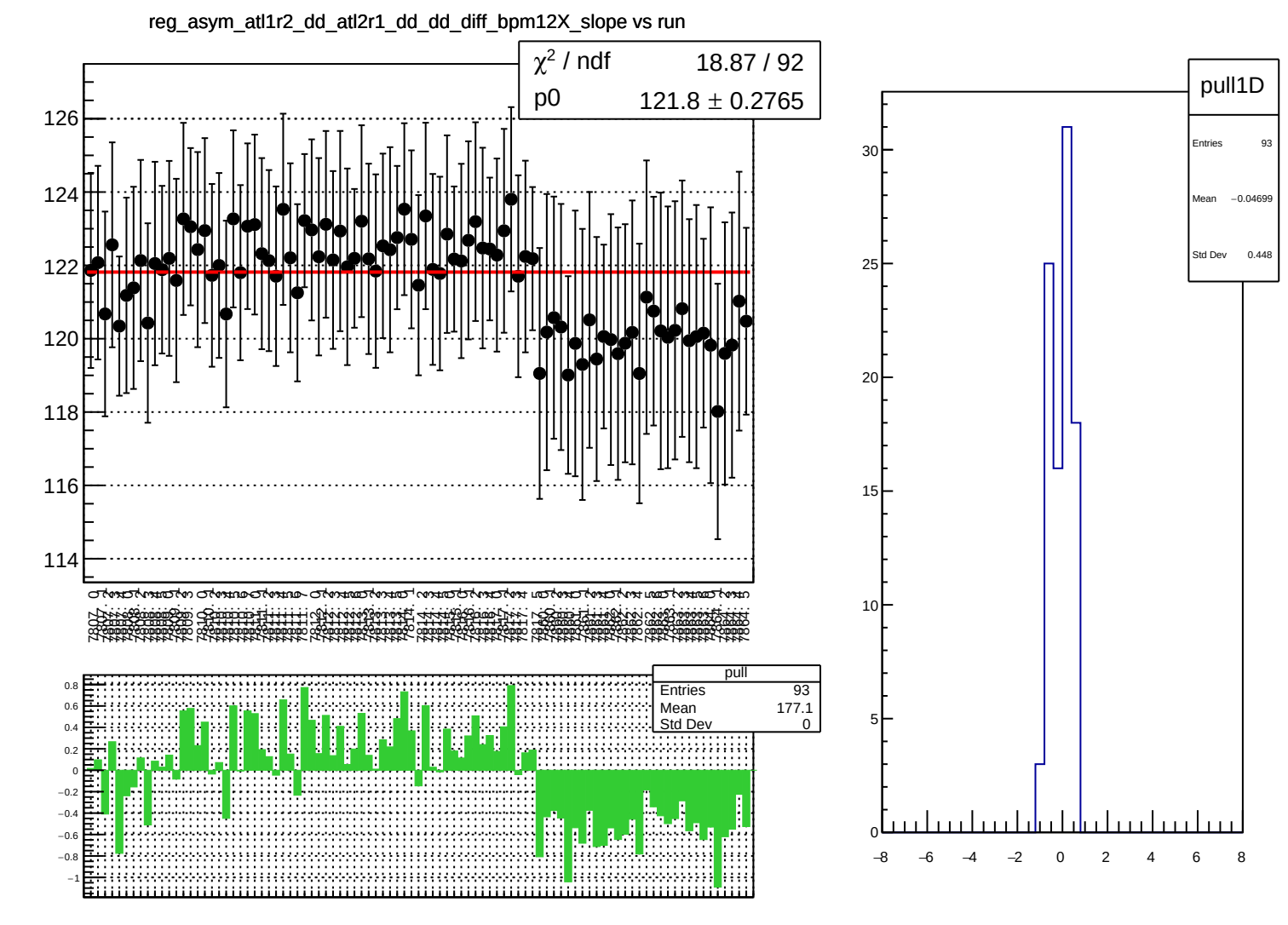

reg_asym_at1_avg_at2_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 18.87 / 92
p0 121.8 ± 0.2765
126
124
122
120
118
116
114
pull
Entries 93
Mean 177.1
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 93
Mean −0.04699
Std Dev 0.448
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

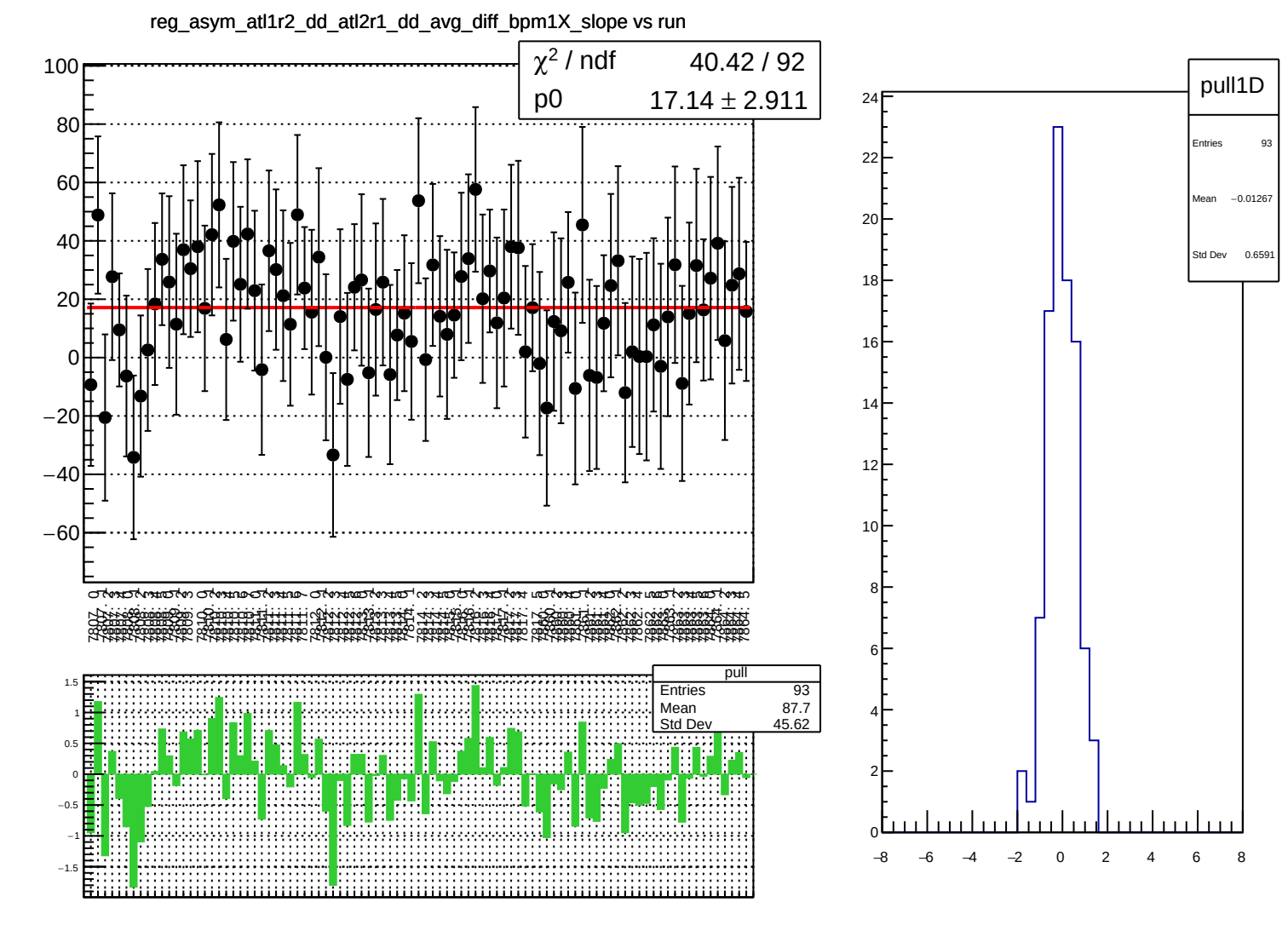

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 6.69 / 92
p0 107.9 ± 8.239
pull
Entries 93
Mean 277.9
Std Dev 0
pull1D
Entries 93
Mean −0.003804
Std Dev 0.2682

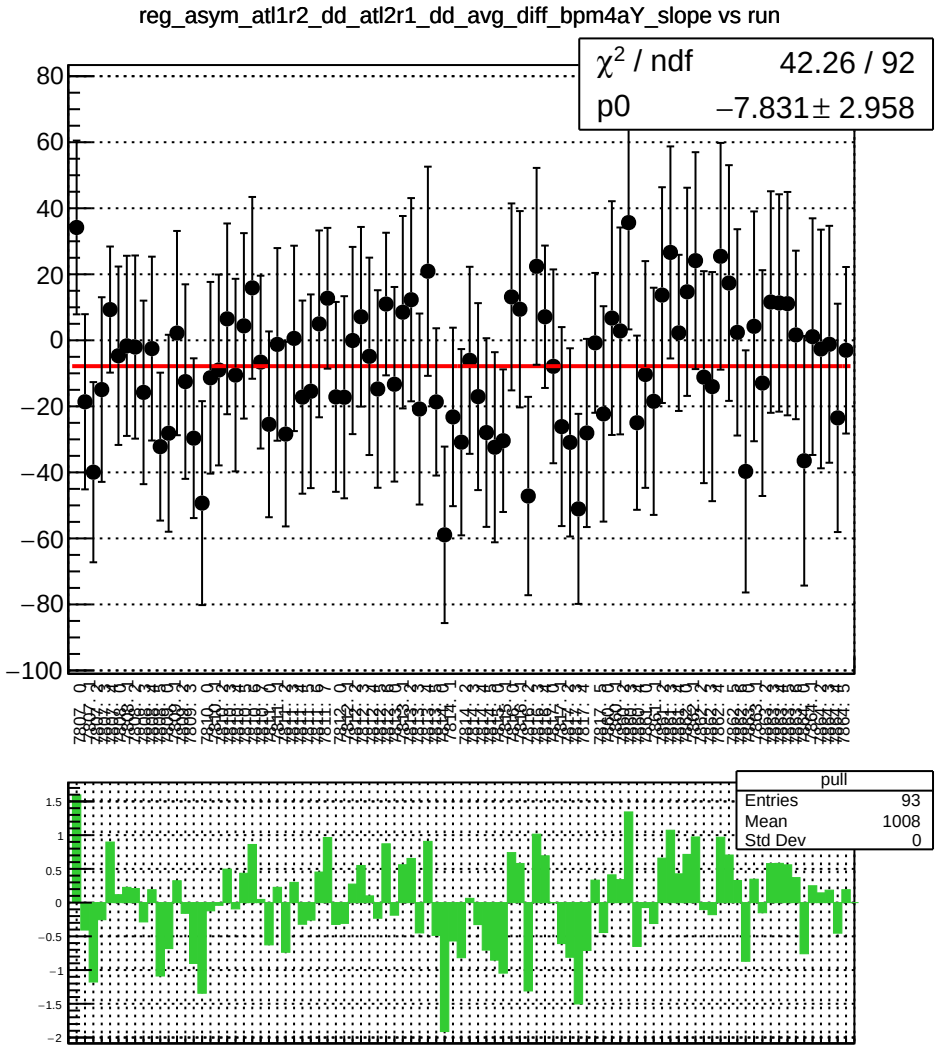

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.439 / 92
p0 −51.18 ± 8.365
pull
Entries 93
Mean 243.1
Std Dev 0
pull1D
Entries 93
Mean 0.0197
Std Dev 0.3006

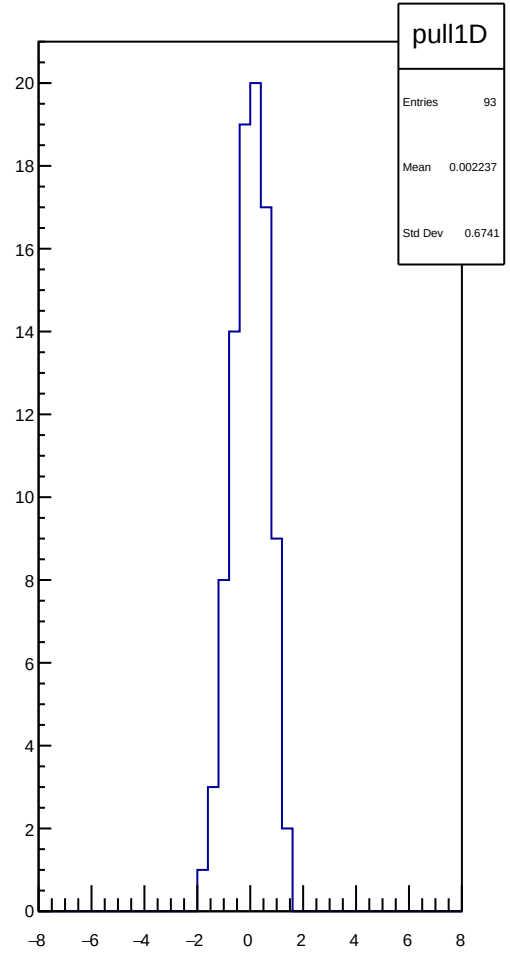

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.587 / 92
p0 −116.9 ± 7.461
pull
Entries 93
Mean 598.4
Std Dev 0
pull1D
Entries 93
Mean 0.00288
Std Dev 0.2856

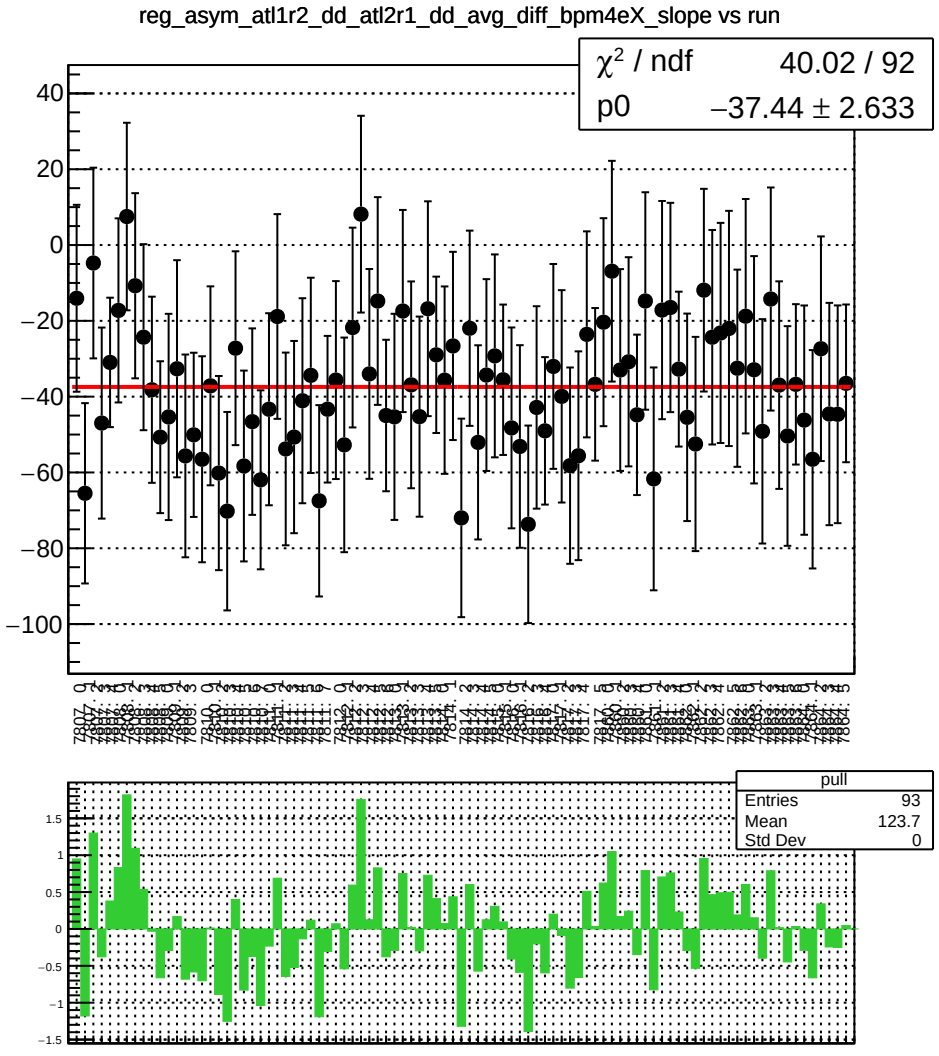

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.401 / 92
p0 −2.51 ± 9.525
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean 199.4
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 93
Mean −0.006486
Std Dev 0.2409
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

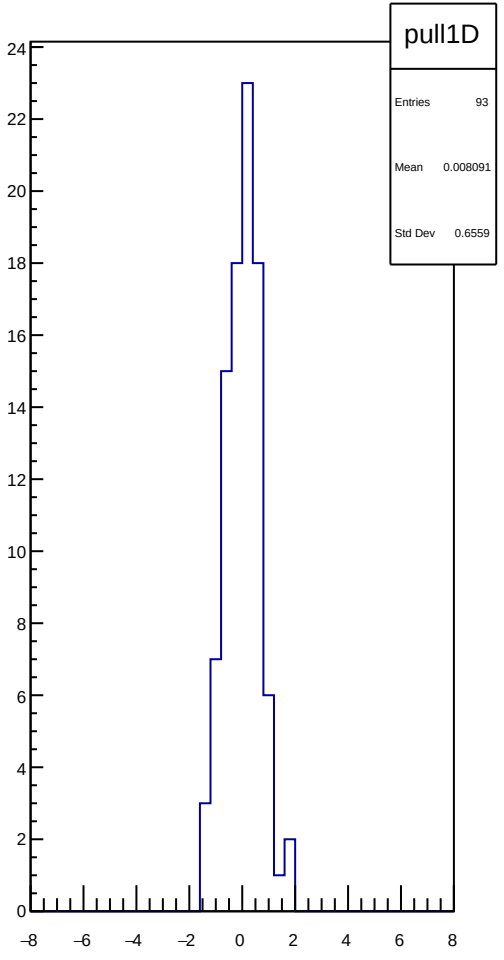

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 18.87 / 92
p0 121.8 ± 0.2765
126
124
122
120
118
116
114
pull
Entries 93
Mean 177.1
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 93
Mean −0.04699
Std Dev 0.448
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

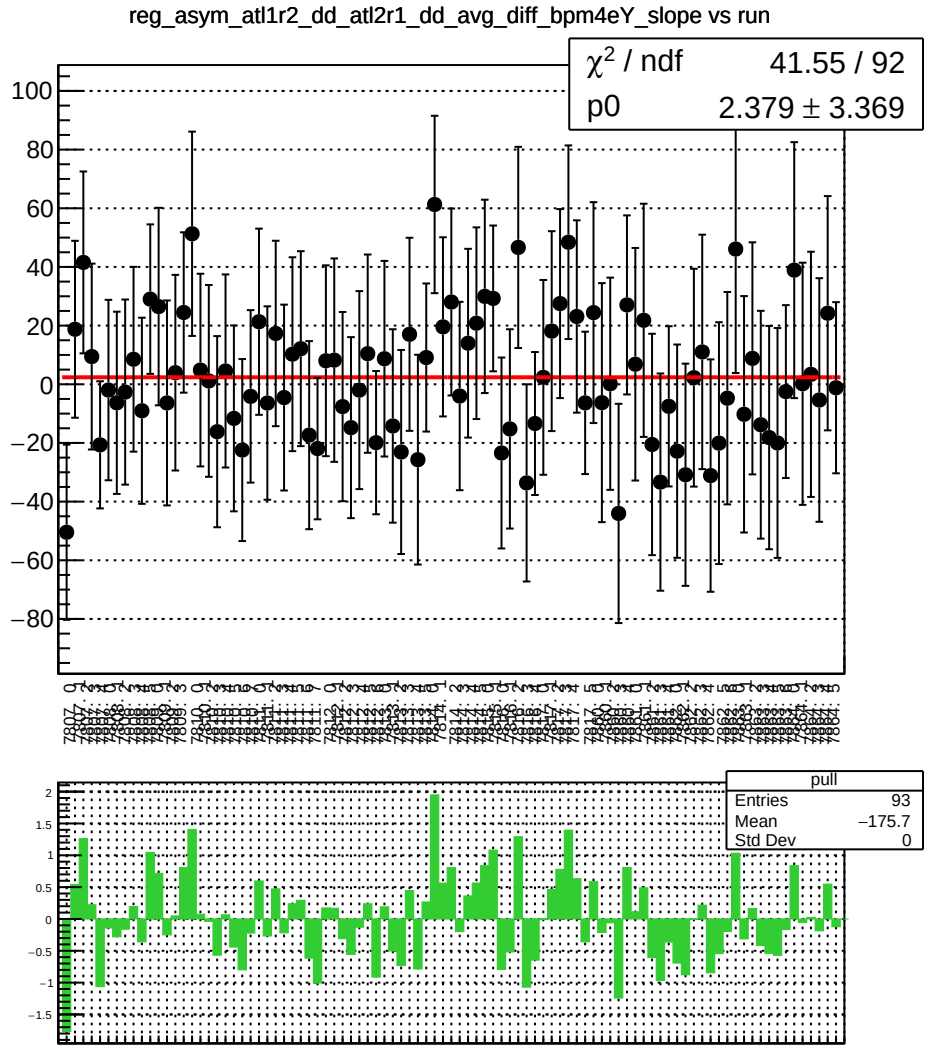

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 40.42 / 92
p0 17.14 ± 2.911
pull
Entries 93
Mean 87.7
Std Dev 45.62
pull1D
Entries 93
Mean −0.01267
Std Dev 0.6591

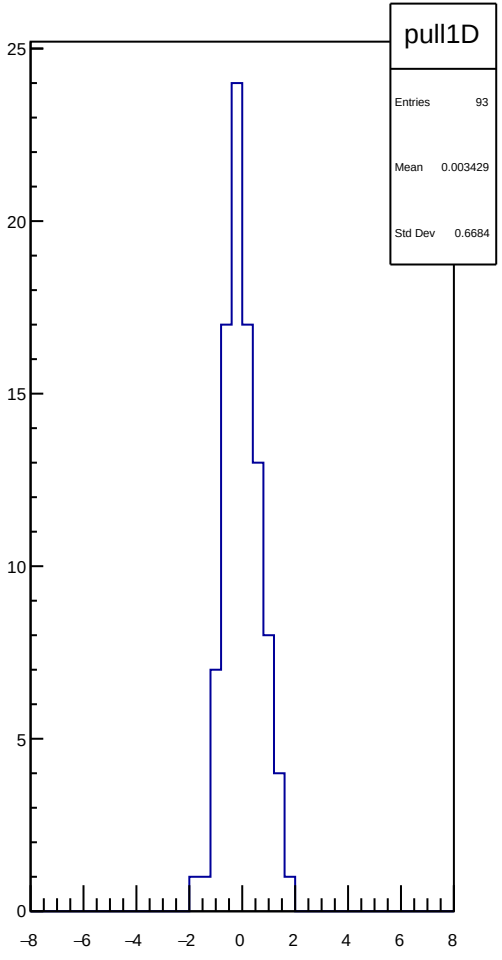

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 42.26 / 92
p0 −7.831 ± 2.958
pull
Entries 93
Mean 1008
Std Dev 0

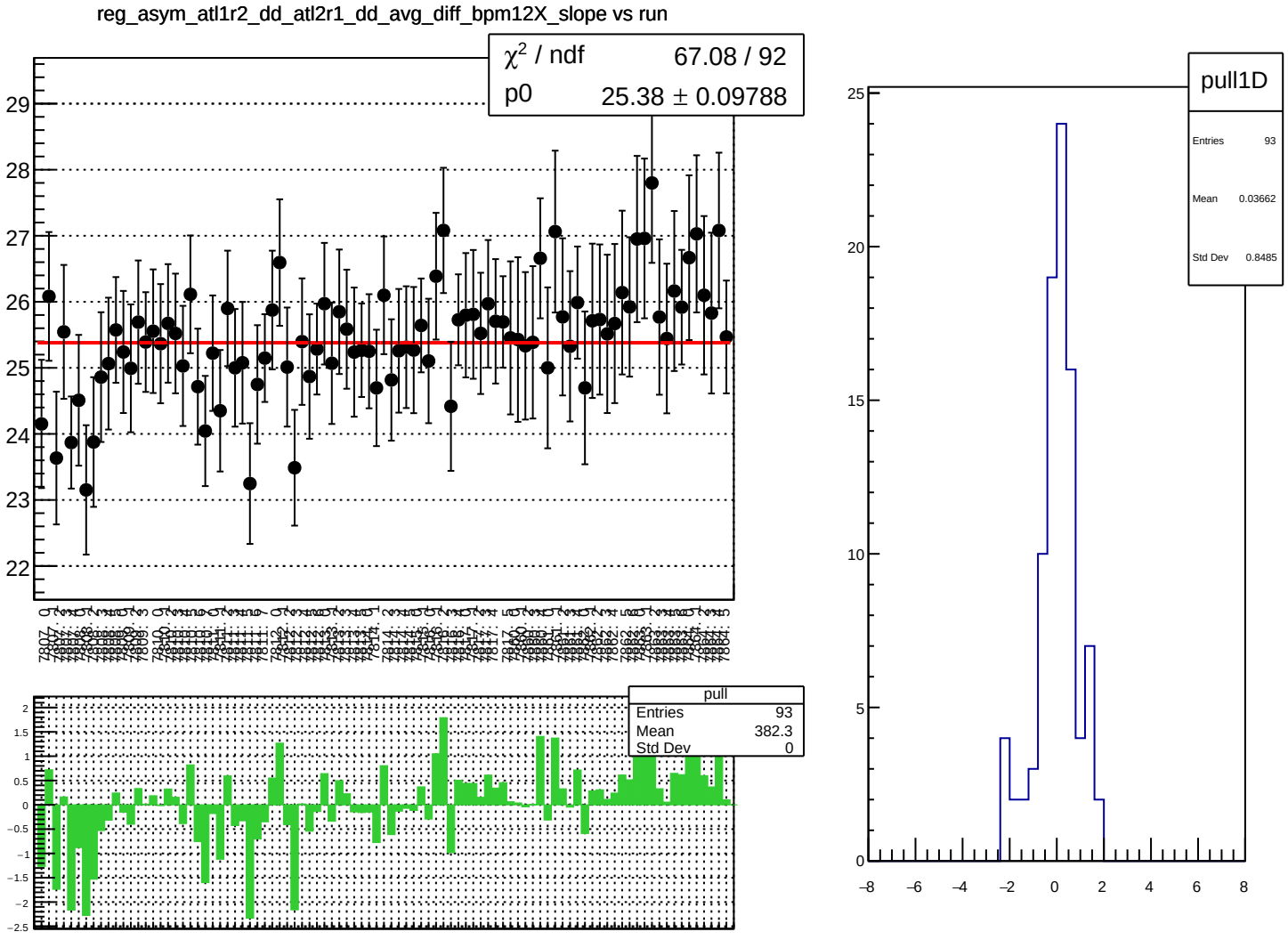

pull1D
Entries 93
Mean 0.002237
Std Dev 0.6741

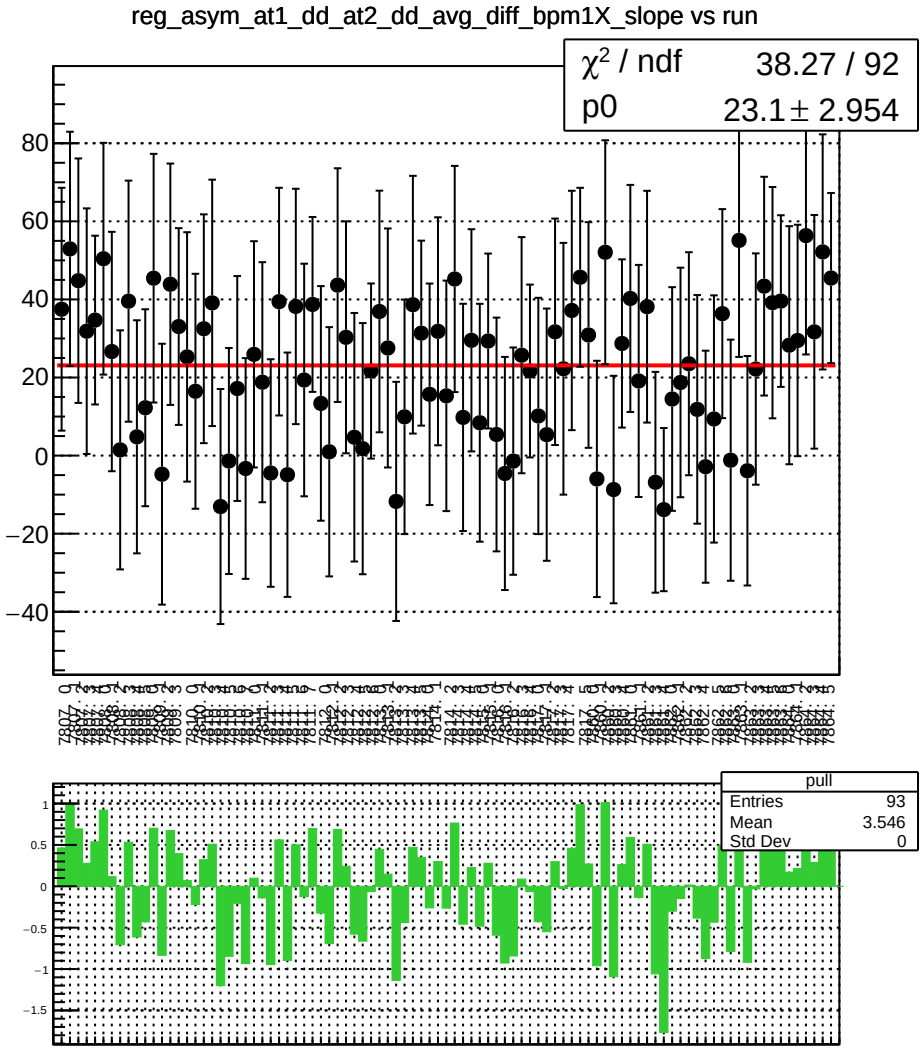

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 40.02 / 92
p0 −37.44 ± 2.633
pull
Entries 93
Mean 123.7
Std Dev 0

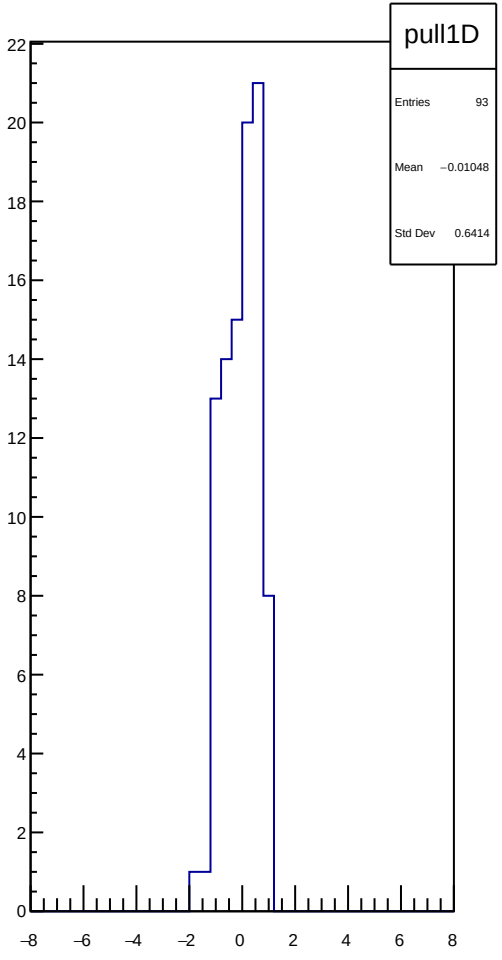

pull1D
Entries 93
Mean 0.008091
Std Dev 0.6559

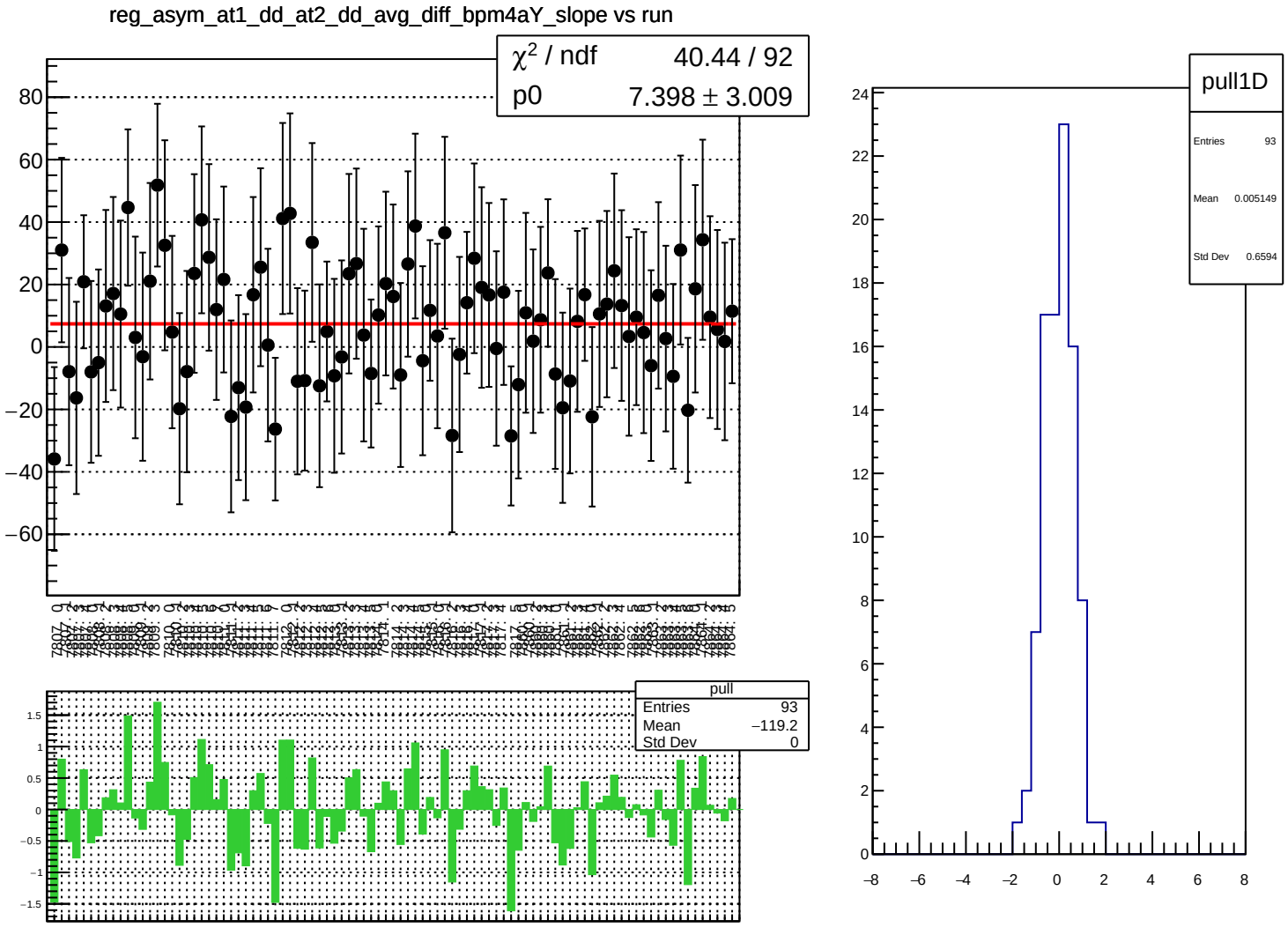

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 41.55 / 92
p0 2.379 ± 3.369
pull
Entries 93
Mean −175.7
Std Dev 0

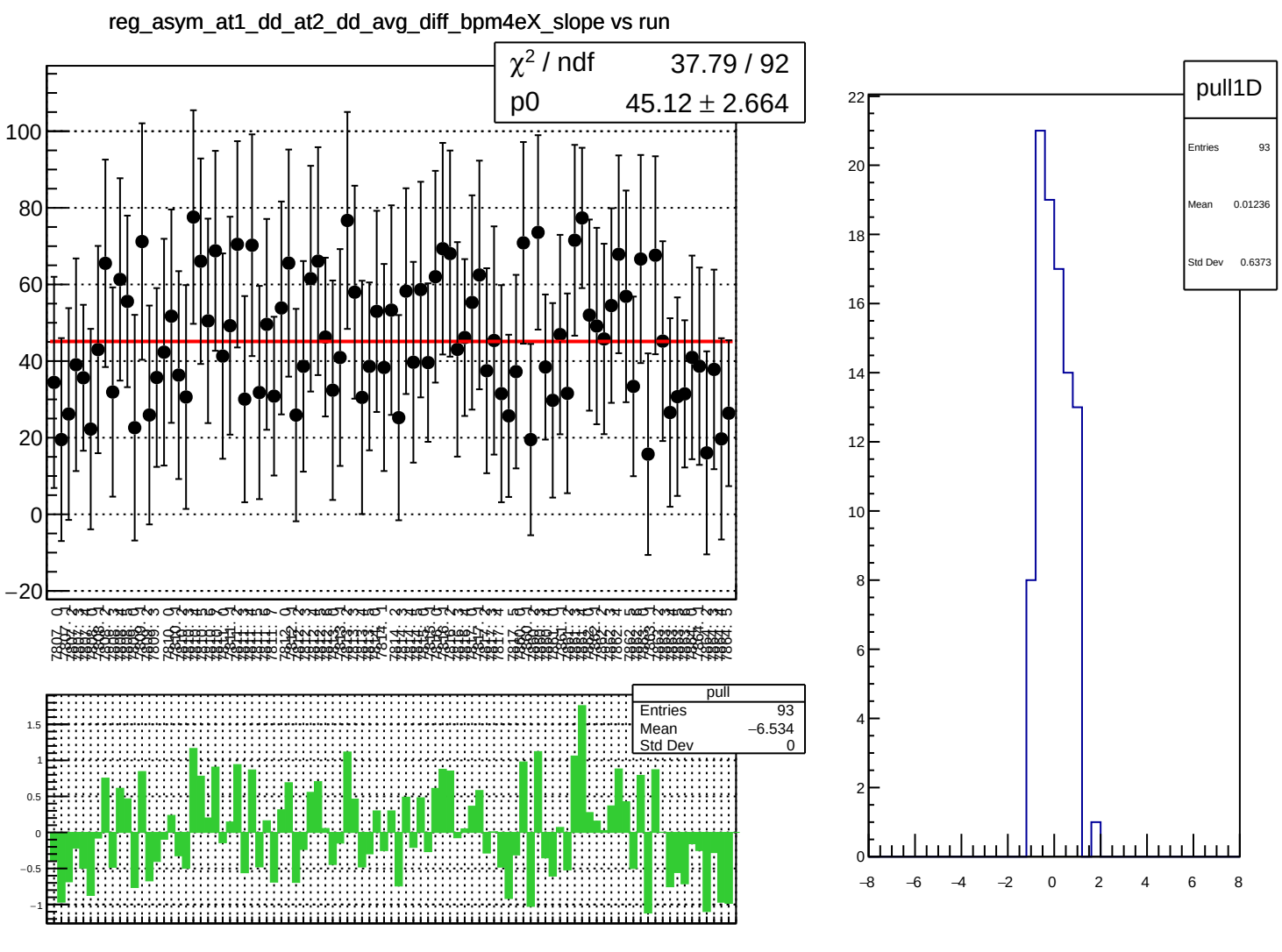

pull1D
Entries 93
Mean 0.003429
Std Dev 0.6684

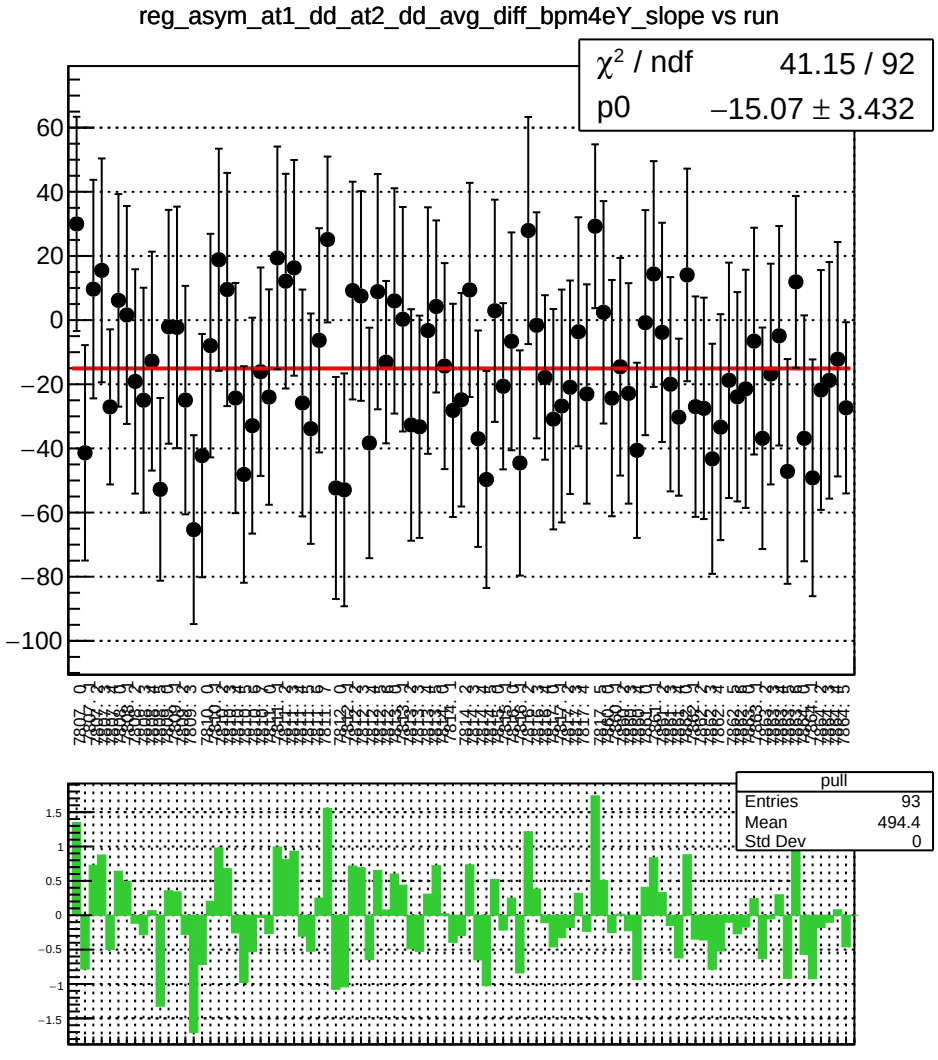

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 67.08 / 92
p0 25.38 ± 0.09788
pull
Entries 93
Mean 382.3
Std Dev 0
pull1D
Entries 93
Mean 0.03662
Std Dev 0.8485

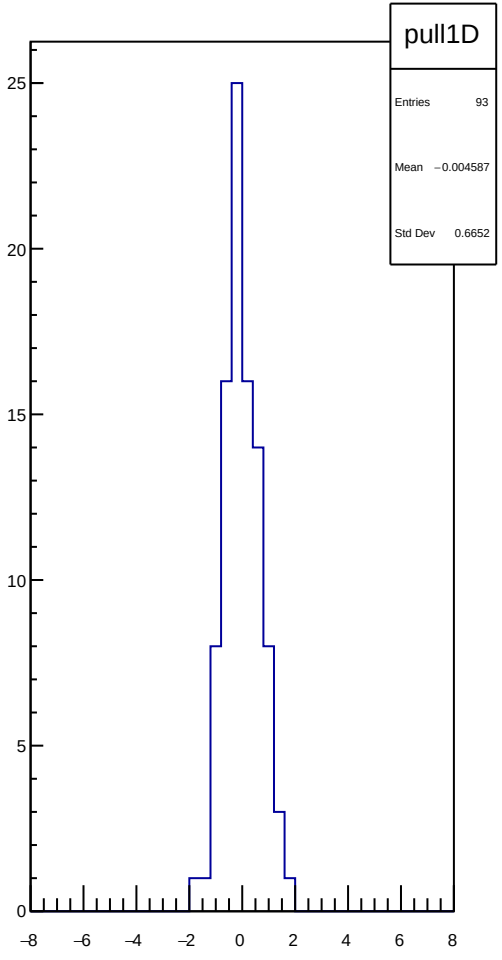

reg_asym_at1_dd_at2_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 38.27 / 92
p0 23.1 ± 2.954
pull
Entries 93
Mean 3.546
Std Dev 0

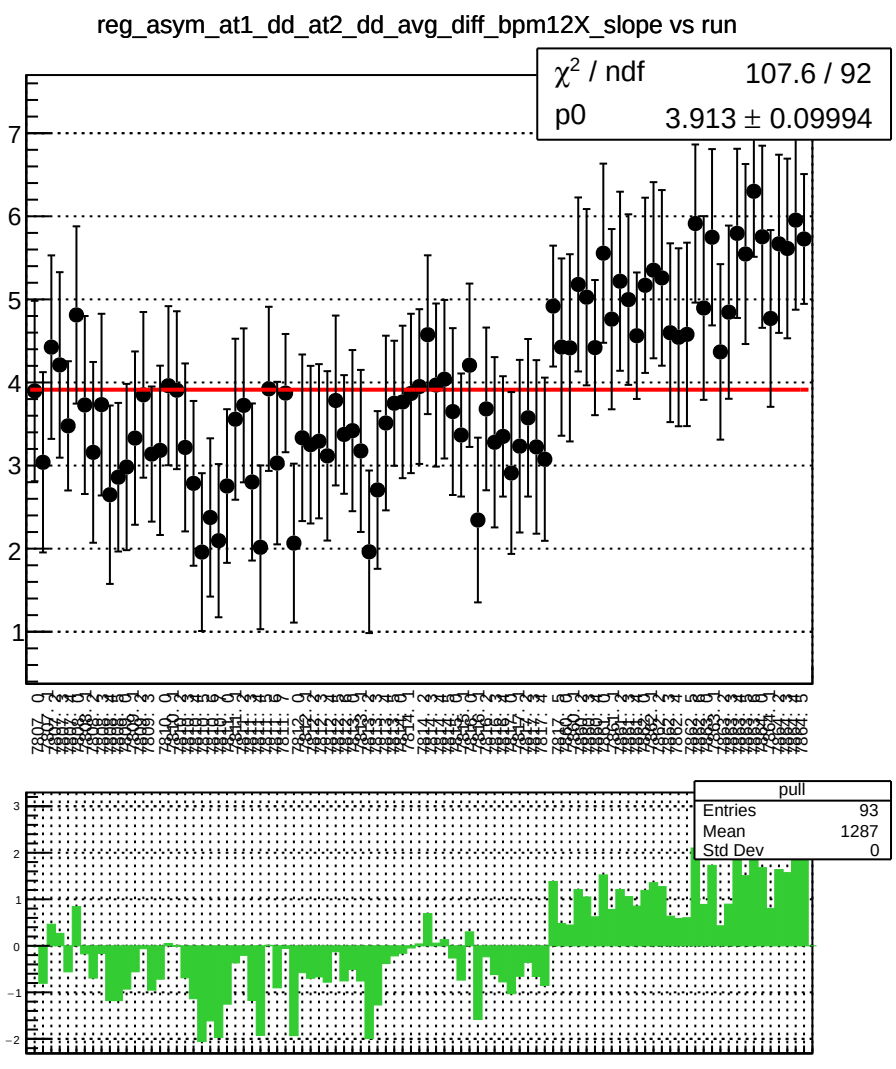

pull1D
Entries 93
Mean −0.01048
Std Dev 0.6414

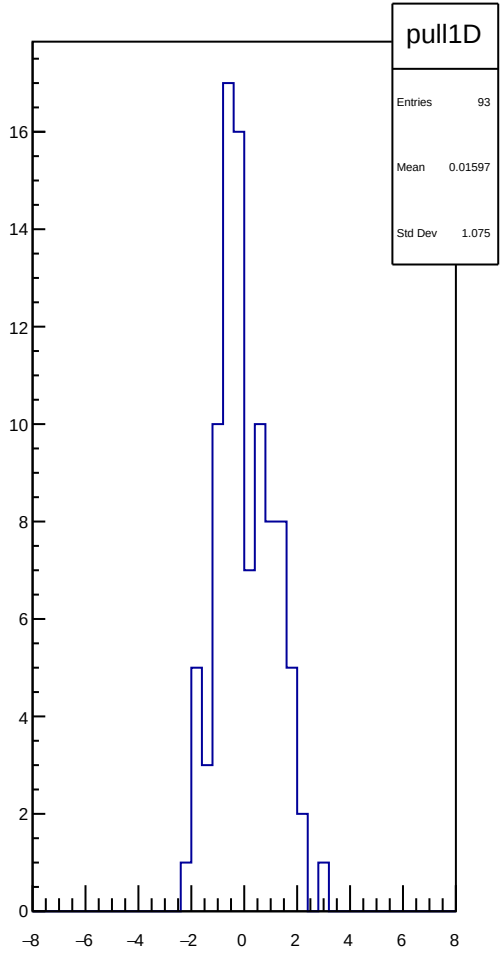

reg_asym_at1_dd_at2_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 40.44 / 92
p0 7.398 ± 3.009
pull
Entries 93
Mean −119.2
Std Dev 0
pull1D
Entries 93
Mean 0.005149
Std Dev 0.6594

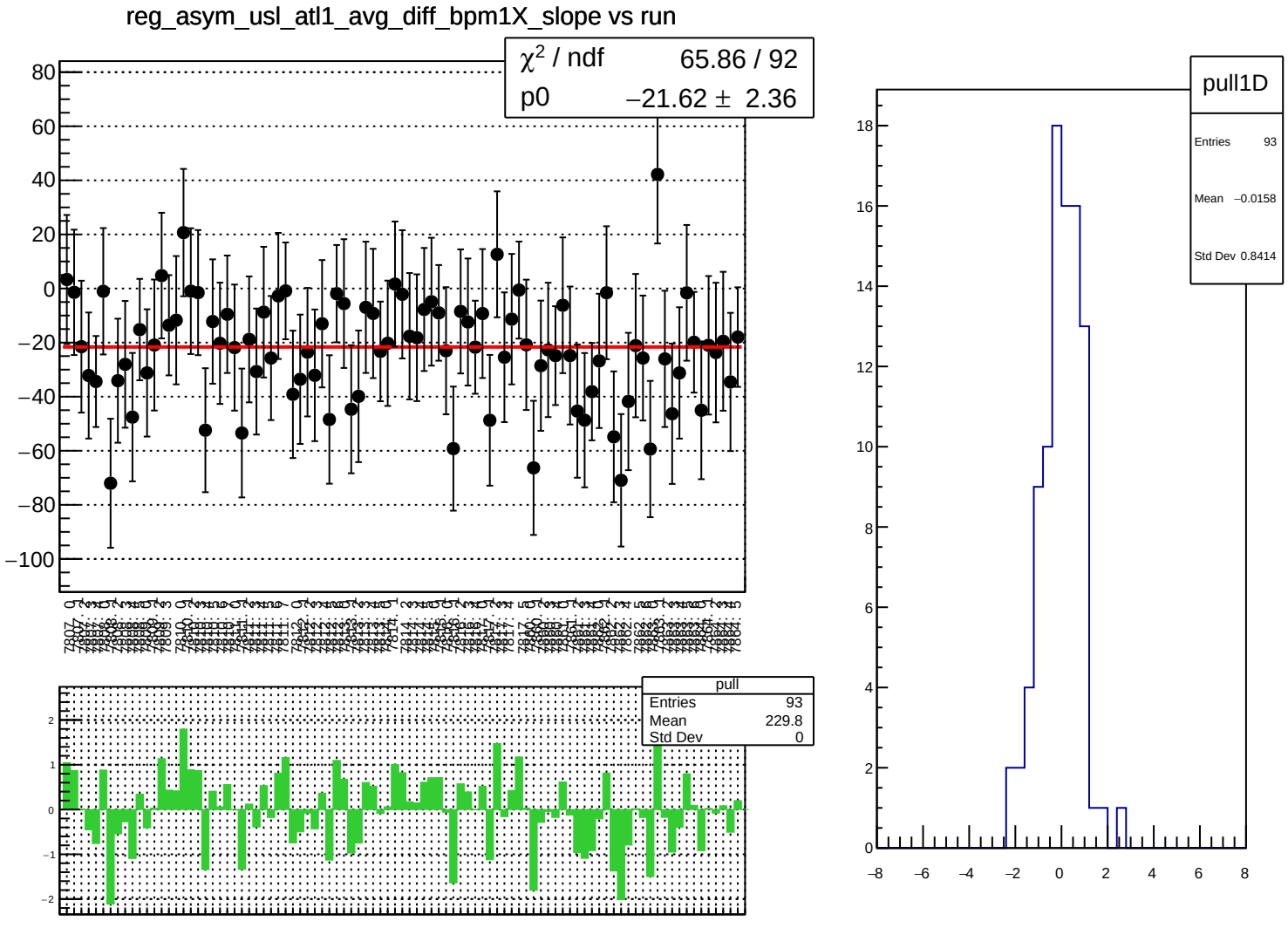

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 37.79 / 92
p0 45.12 ± 2.664
pull
Entries 93
Mean −6.534
Std Dev 0
pull1D
Entries 93
Mean 0.01236
Std Dev 0.6373

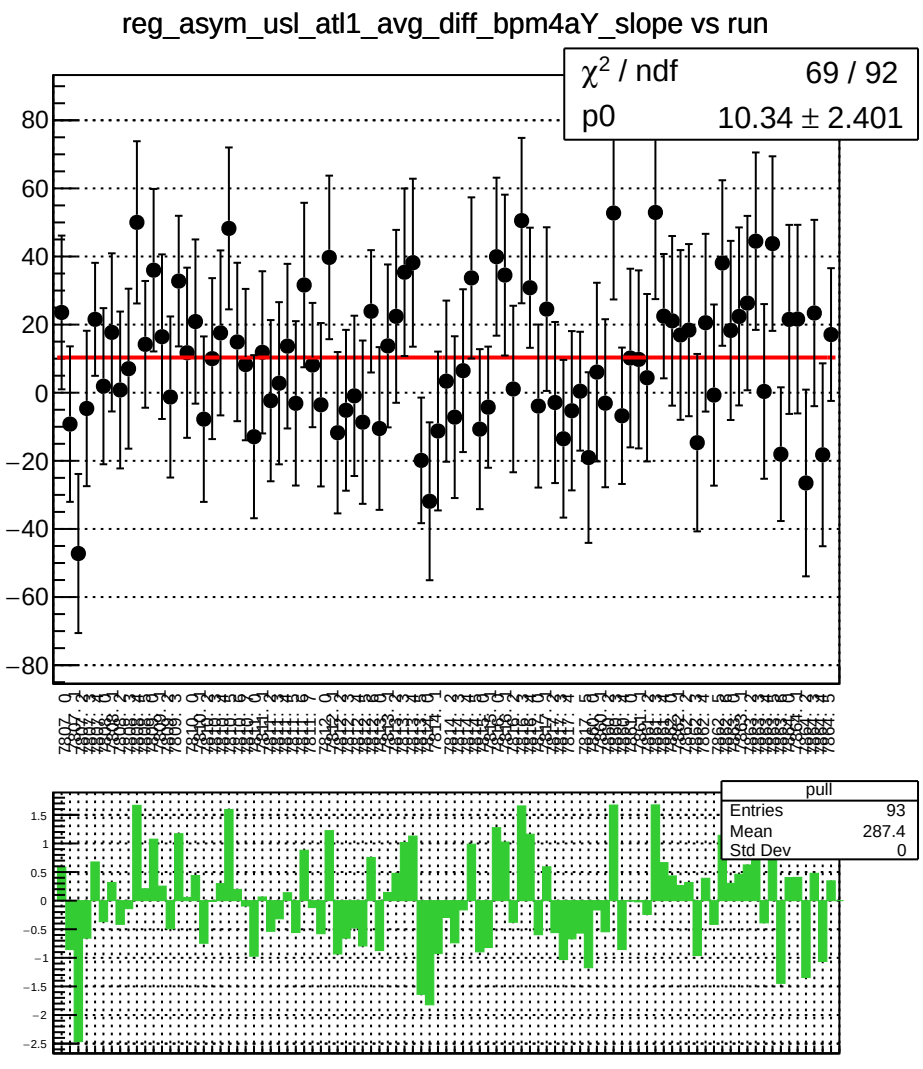

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 41.15 / 92
p0 −15.07 ± 3.432
pull
Entries 93
Mean 494.4
Std Dev 0

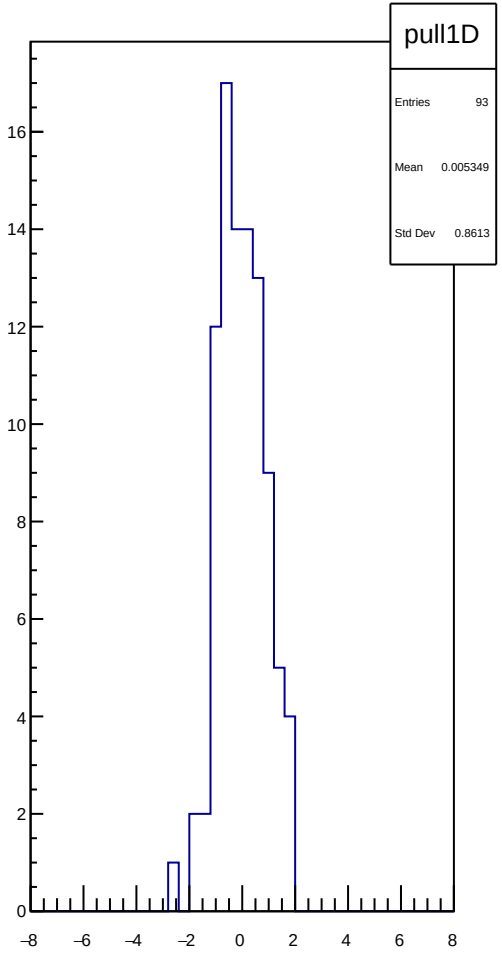

pull1D
Entries 93
Mean −0.004587
Std Dev 0.6652

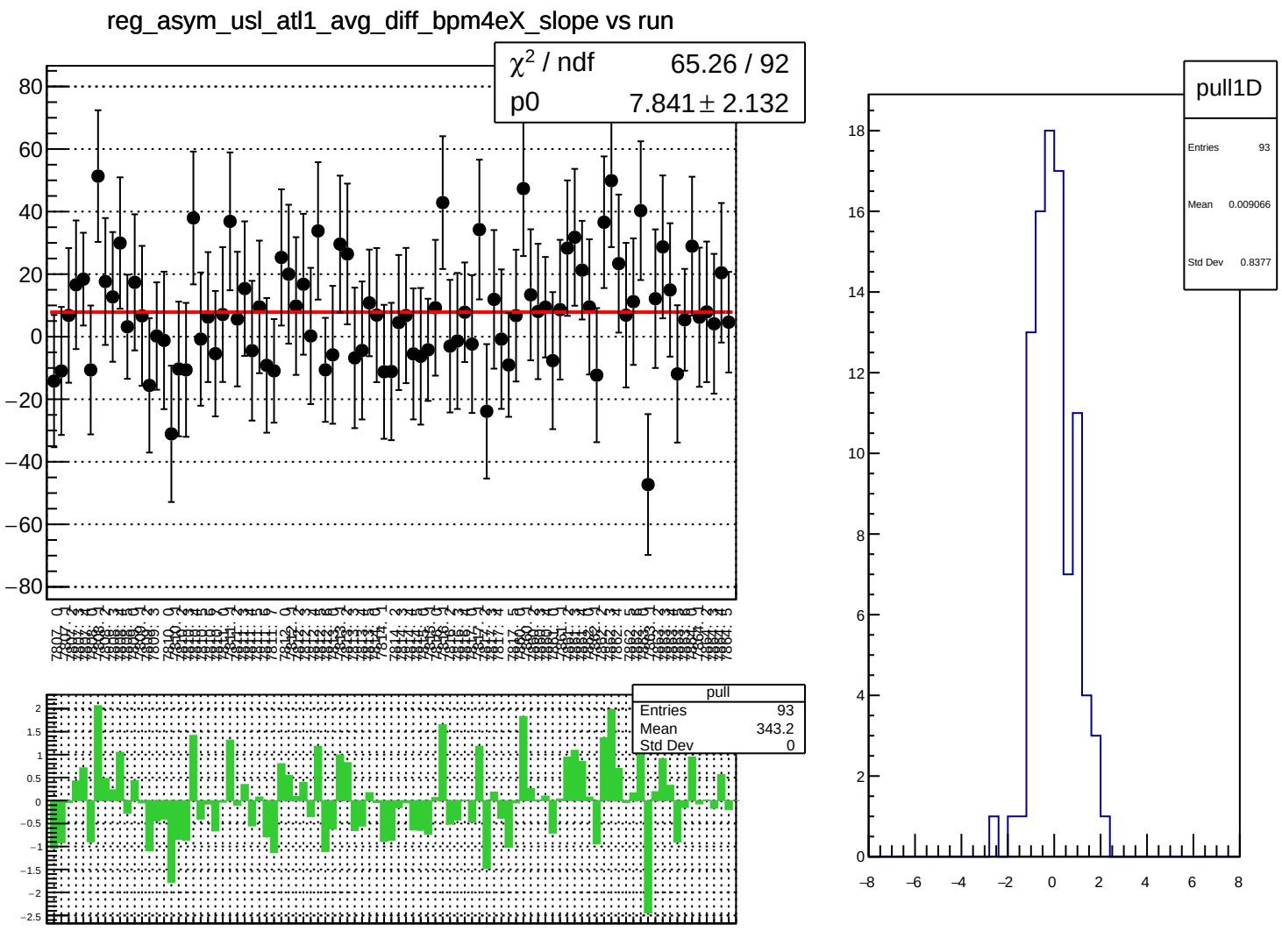

reg_asym_at1_dd_at2_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 107.6 / 92
p0 3.913 ± 0.09994
pull
Entries 93
Mean 1287
Std Dev 0

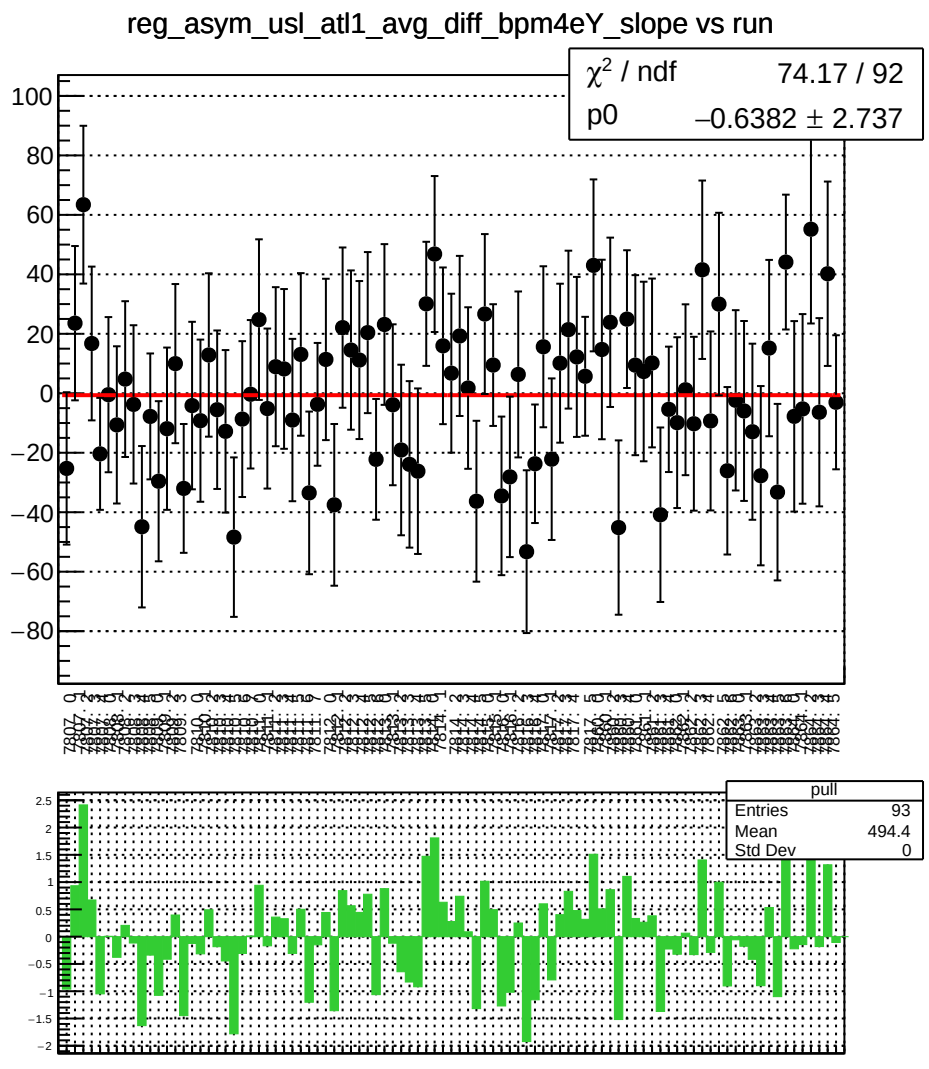

pull1D
Entries 93
Mean 0.01597
Std Dev 1.075

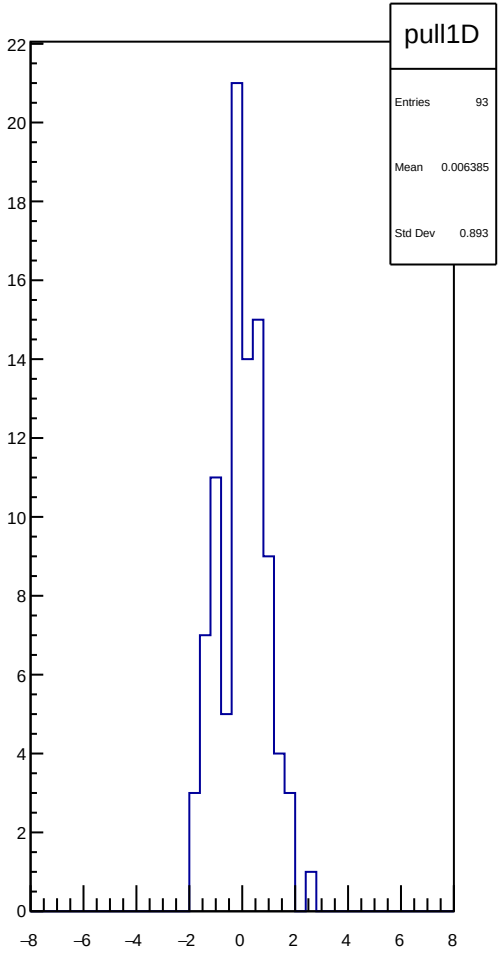

reg_asym_usl_atl1_avg_diff_bpm1X_slope vs run
χ² / ndf 65.86 / 92
p0 −21.62 ± 2.36
pull
Entries 93
Mean 229.8
Std Dev 0
pull1D
Entries 93
Mean −0.0158
Std Dev 0.8414

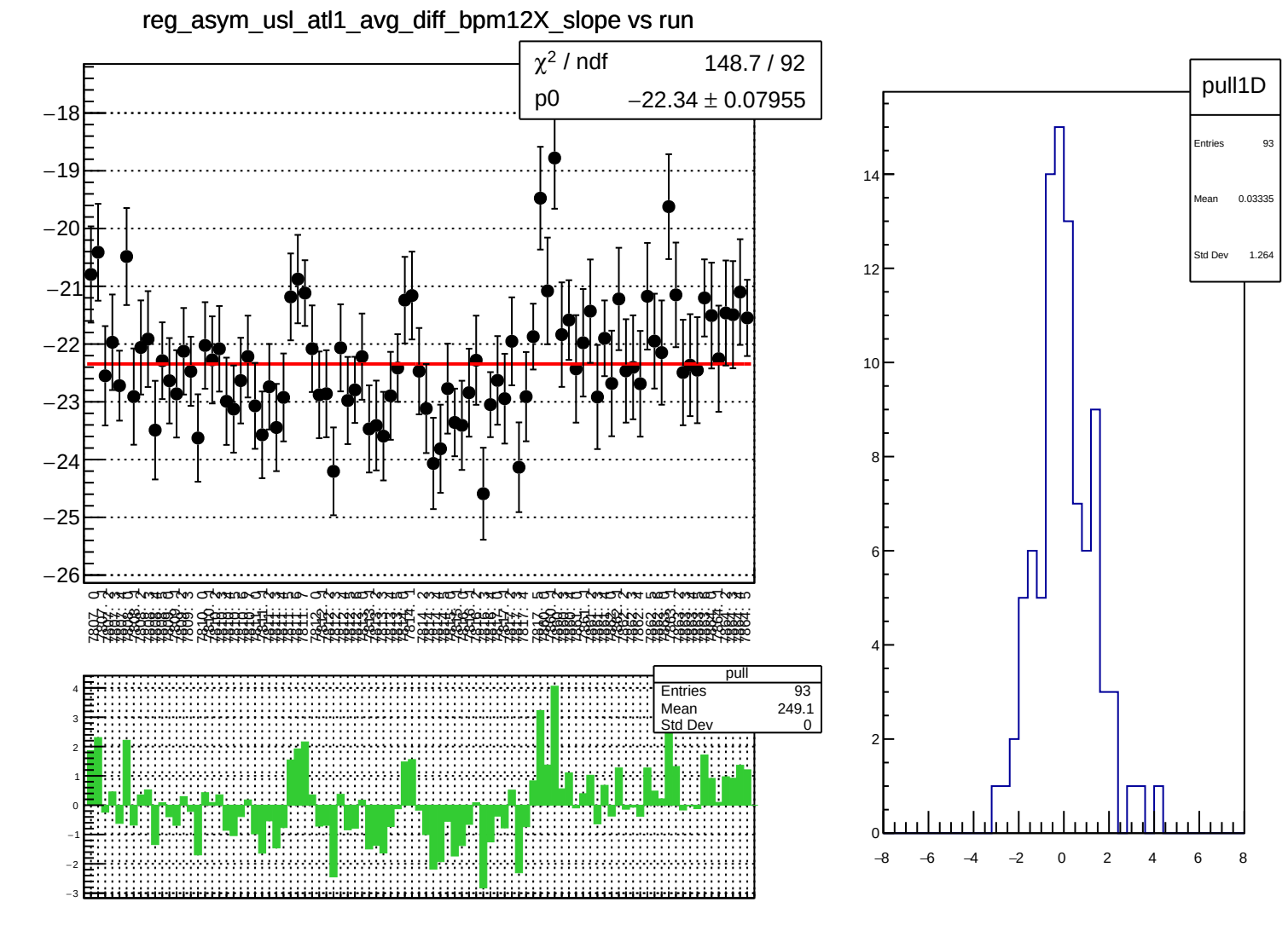

reg_asym_usl_atl1_avg_diff_bpm4aY_slope vs run
χ² / ndf 69 / 92
p0 10.34 ± 2.401
pull
Entries 93
Mean 287.4
Std Dev 0

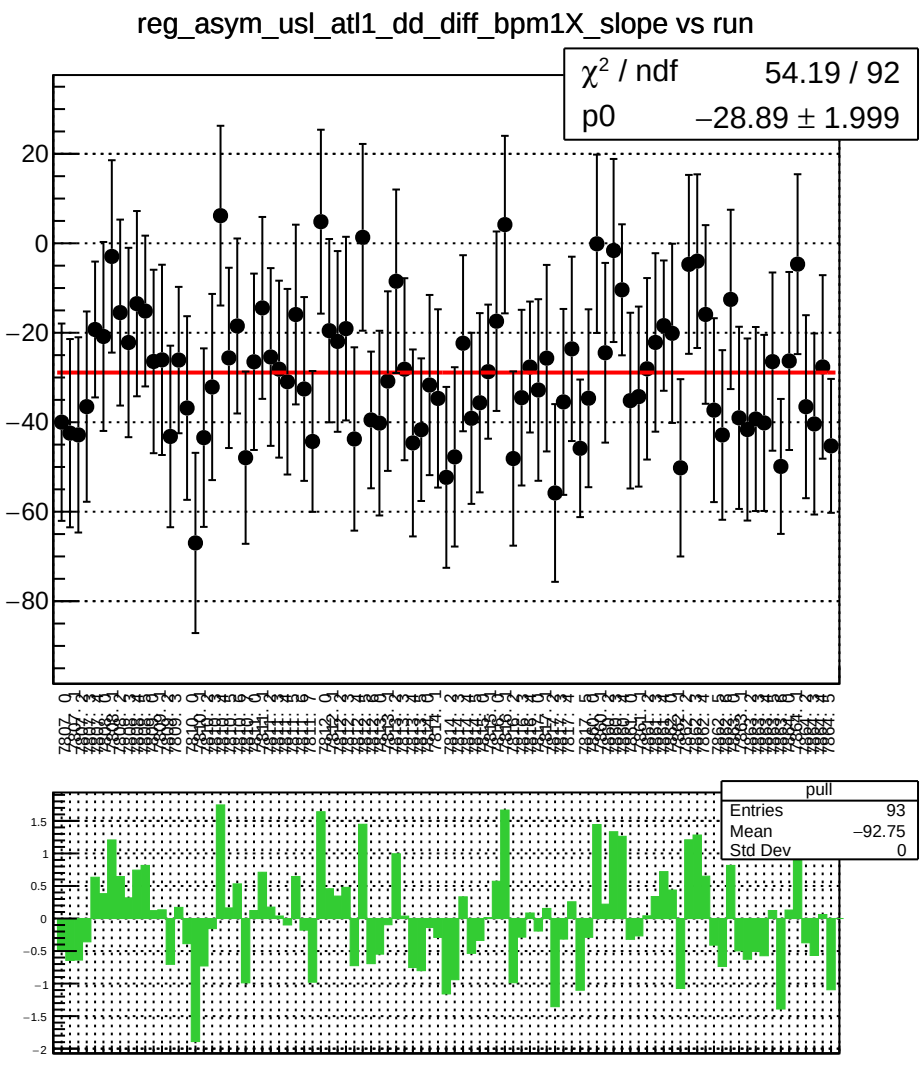

pull1D
Entries 93
Mean 0.005349
Std Dev 0.8613

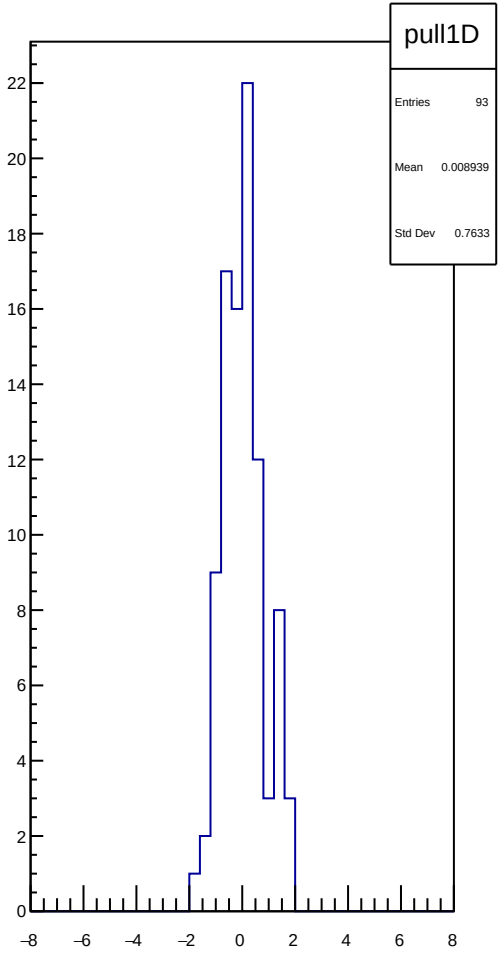

reg_asym_usl_atl1_avg_diff_bpm4eX_slope vs run
χ² / ndf 65.26 / 92
p0 7.841 ± 2.132
pull
Entries 93
Mean 343.2
Std Dev 0
pull1D
Entries 93
Mean 0.009066
Std Dev 0.8377

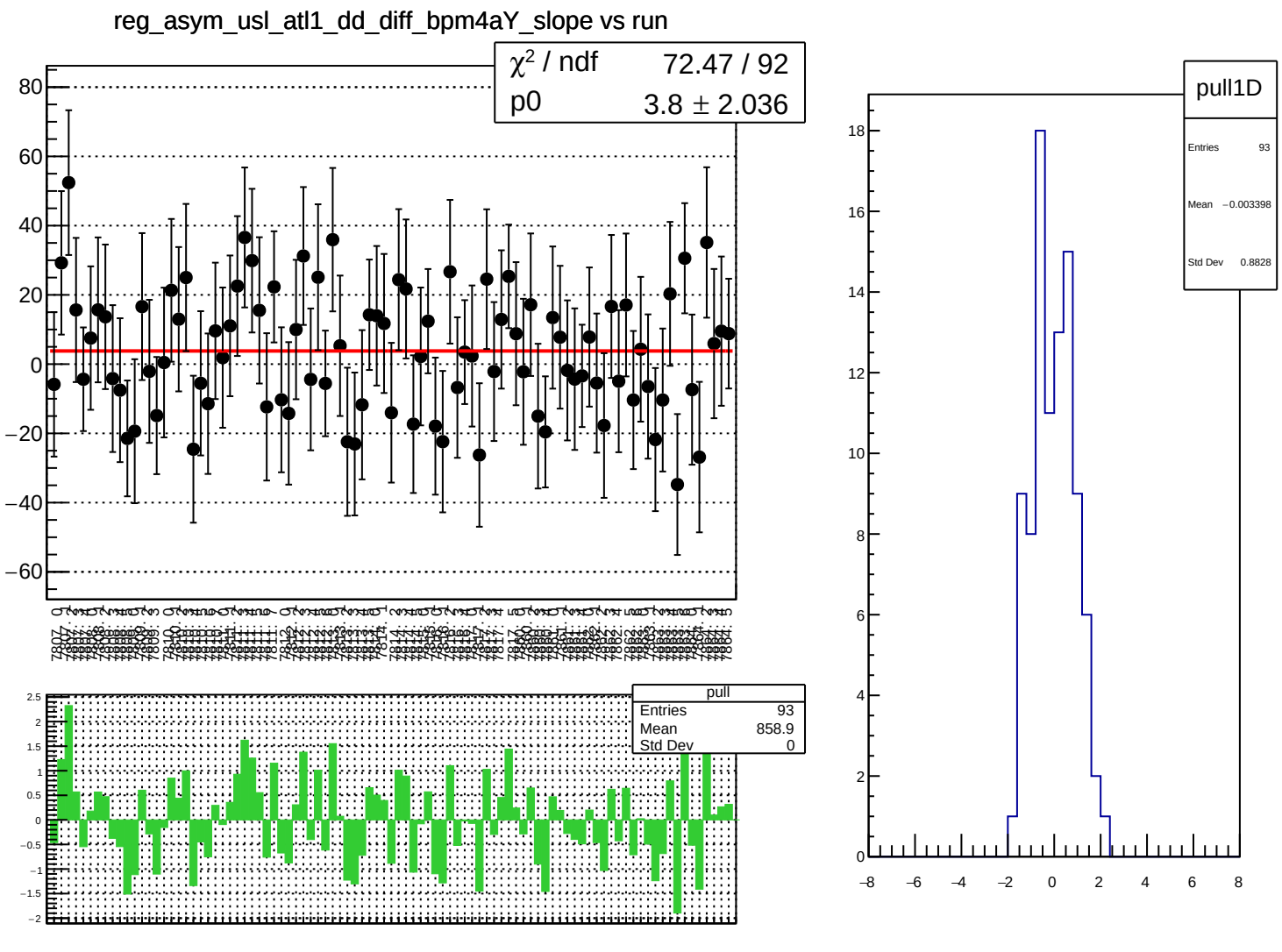

reg_asym_usl_atl1_avg_diff_bpm4eY_slope vs run
χ² / ndf 74.17 / 92
p0 −0.6382 ± 2.737
pull
Entries 93
Mean 494.4
Std Dev 0

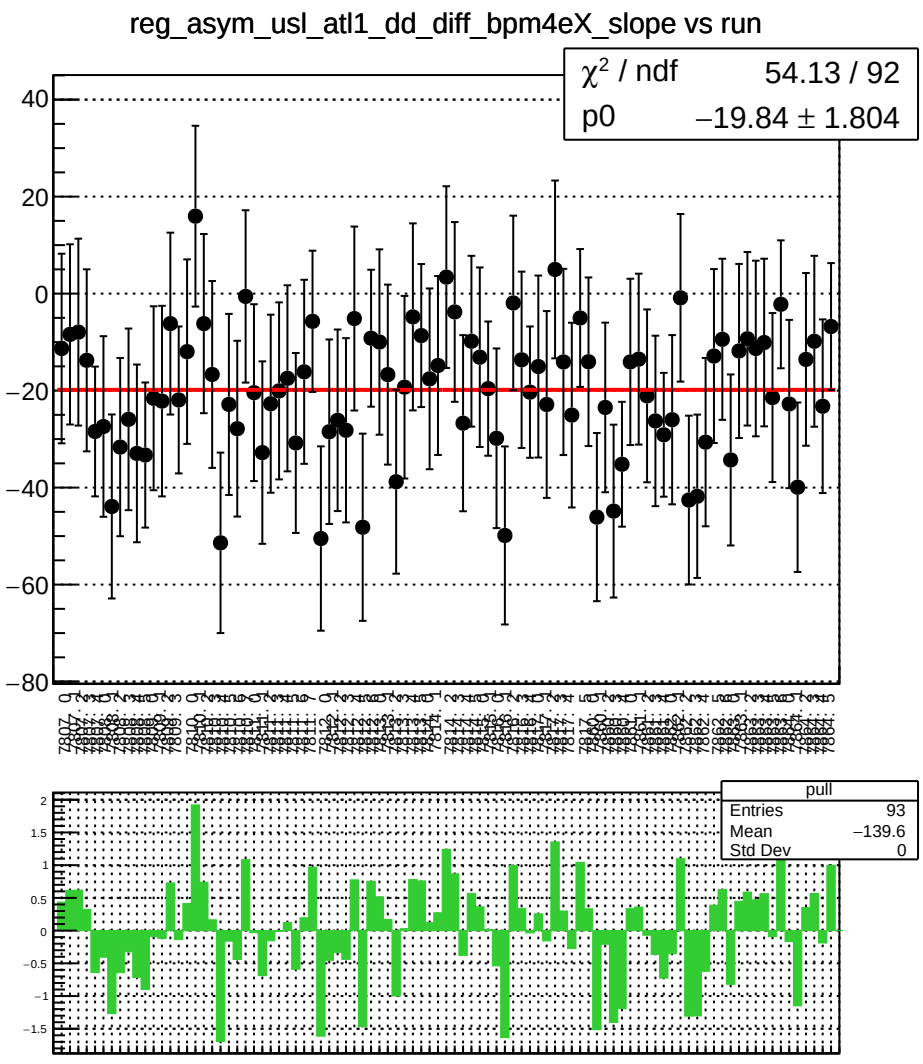

pull1D
Entries 93
Mean 0.006385
Std Dev 0.893

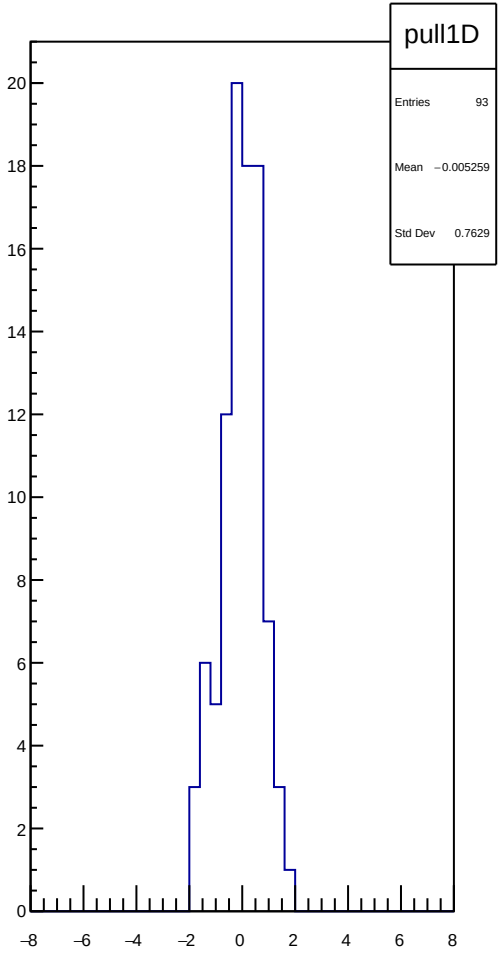

reg_asym_usl_atl1_avg_diff_bpm12X_slope vs run
χ² / ndf 148.7 / 92
p0 −22.34 ± 0.07955
pull
Entries 93
Mean 249.1
Std Dev 0
pull1D
Entries 93
Mean 0.03335
Std Dev 1.264

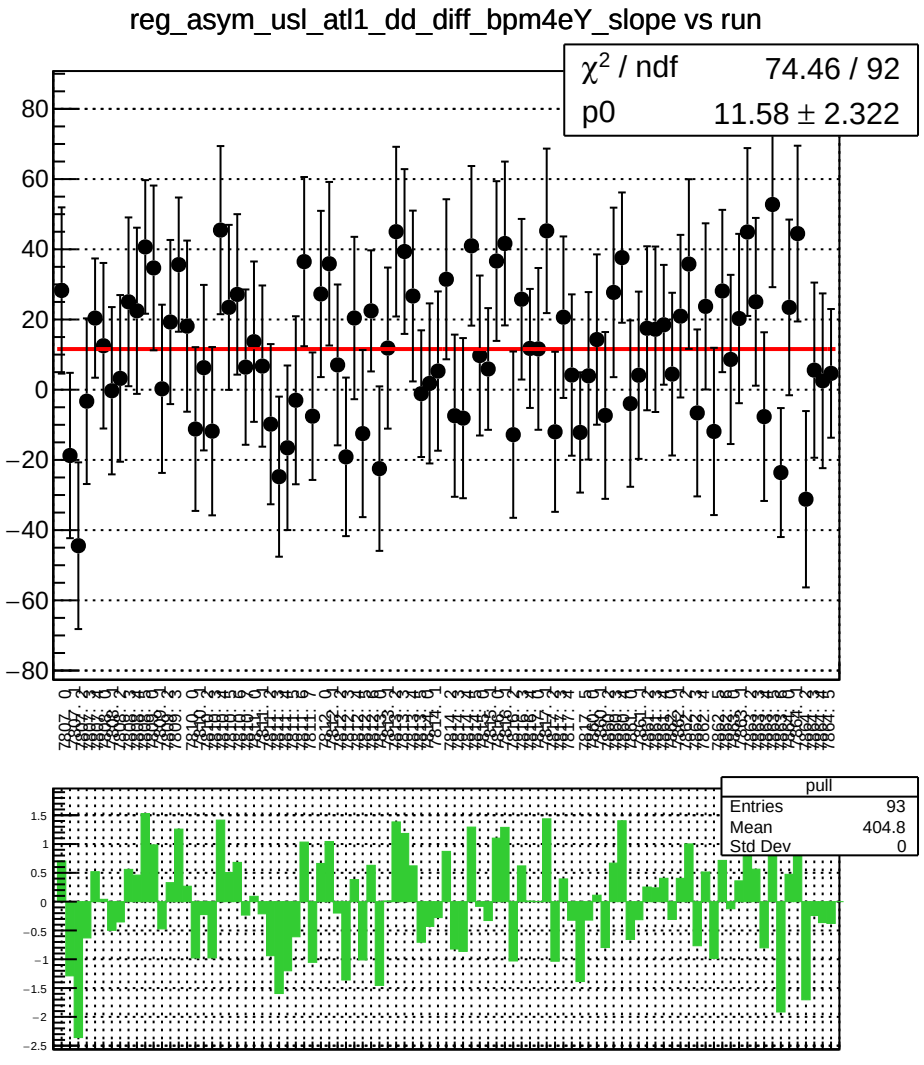

reg_asym_usl_atl1_dd_diff_bpm1X_slope vs run
χ² / ndf 54.19 / 92
p0 −28.89 ± 1.999
pull
Entries 93
Mean −92.75
Std Dev 0

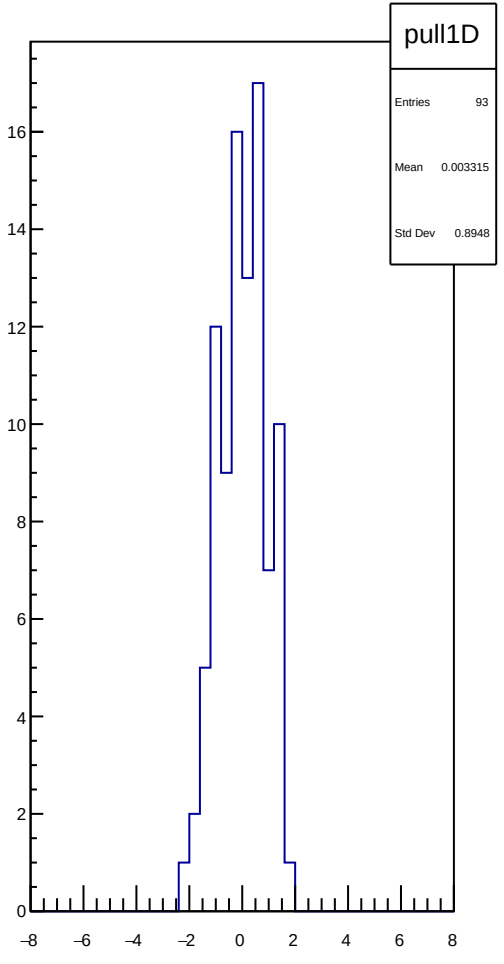

pull1D
Entries 93
Mean 0.008939
Std Dev 0.7633

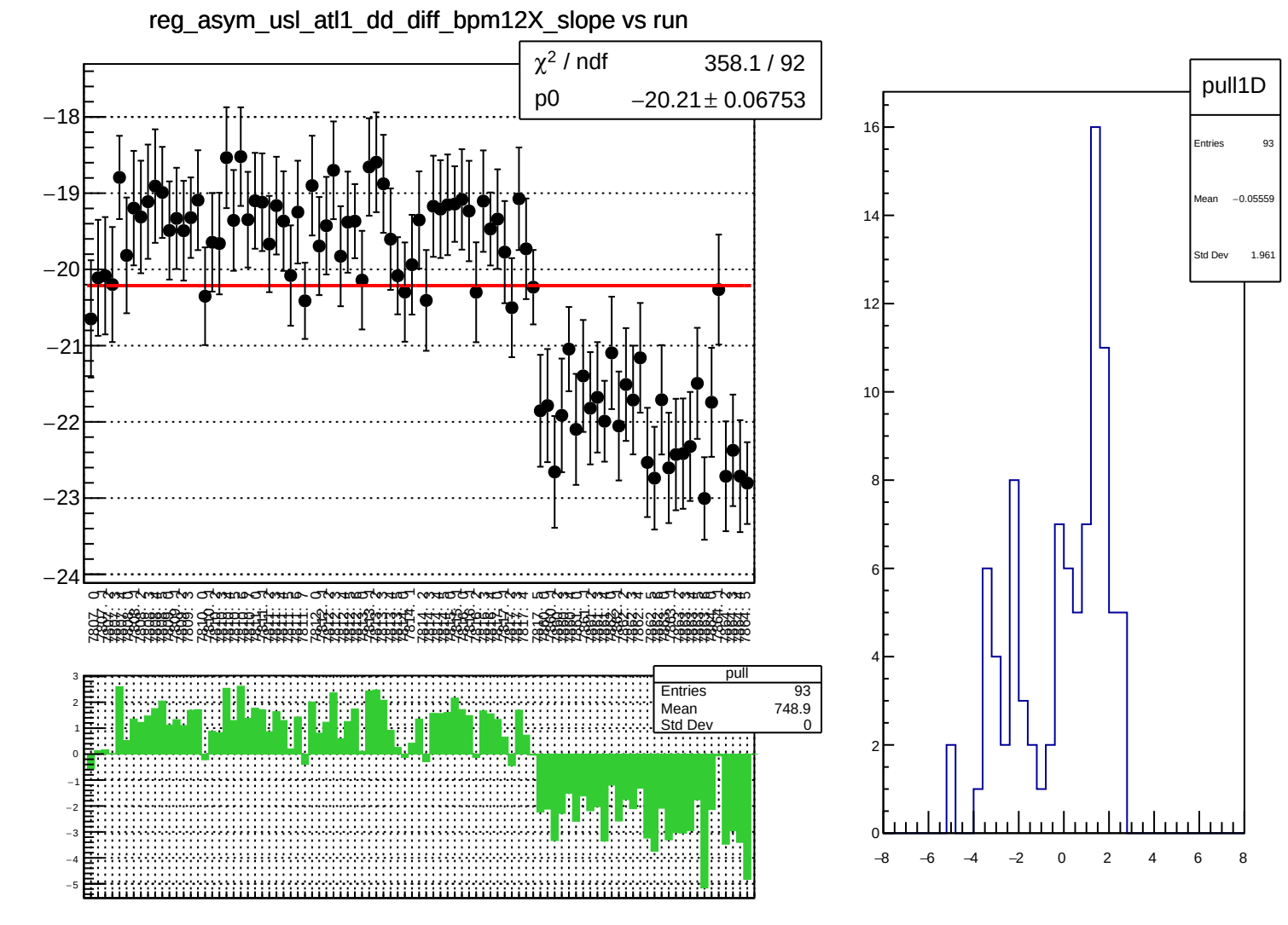

reg_asym_usl_atl1_dd_diff_bpm4aY_slope vs run
χ² / ndf 72.47 / 92
p0 3.8 ± 2.036
pull
Entries 93
Mean 858.9
Std Dev 0
pull1D
Entries 93
Mean −0.003398
Std Dev 0.8828

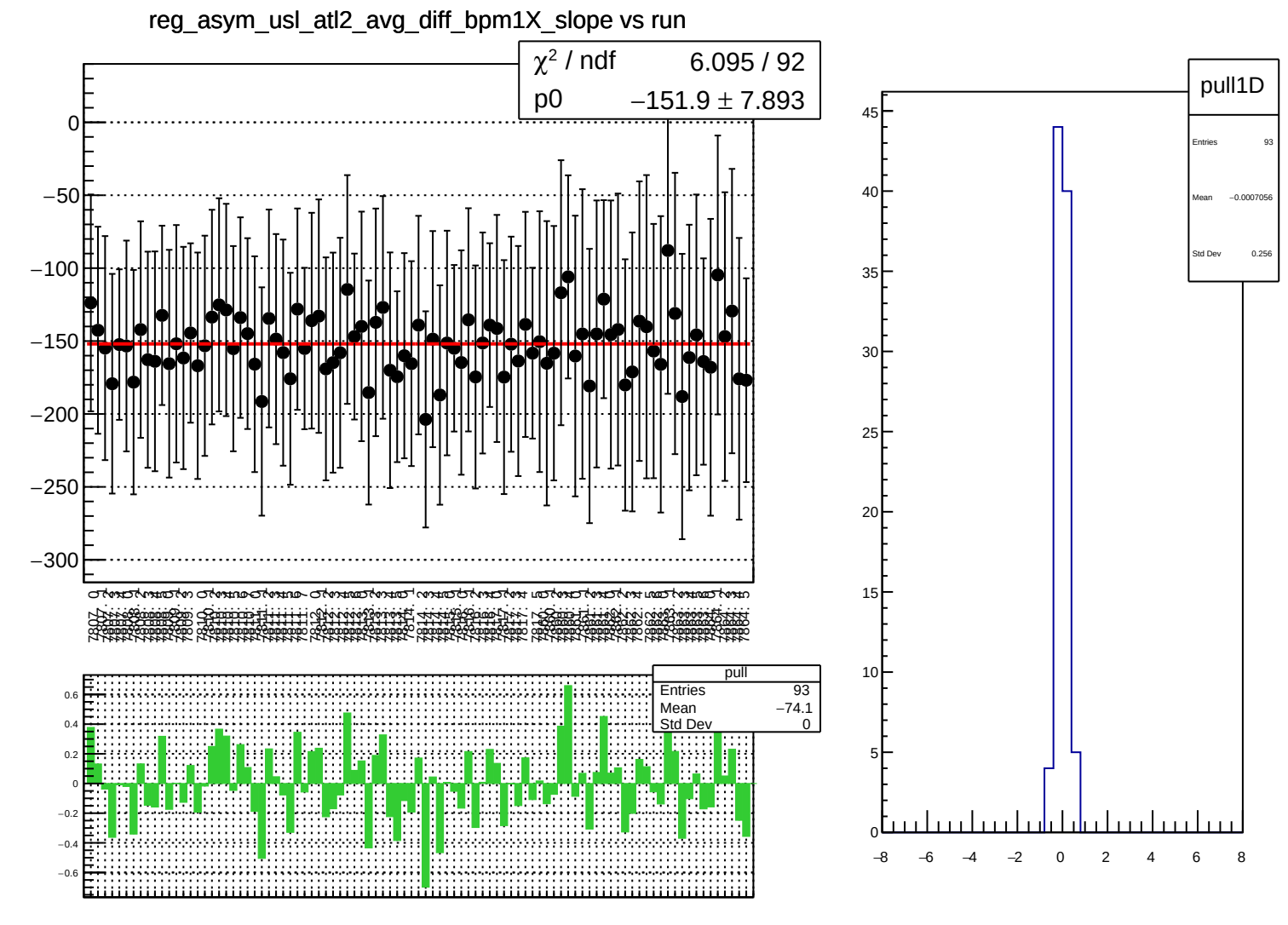

reg_asym_usl_atl1_dd_diff_bpm4eX_slope vs run
χ² / ndf 54.13 / 92
p0 −19.84 ± 1.804
pull
Entries 93
Mean −139.6
Std Dev 0

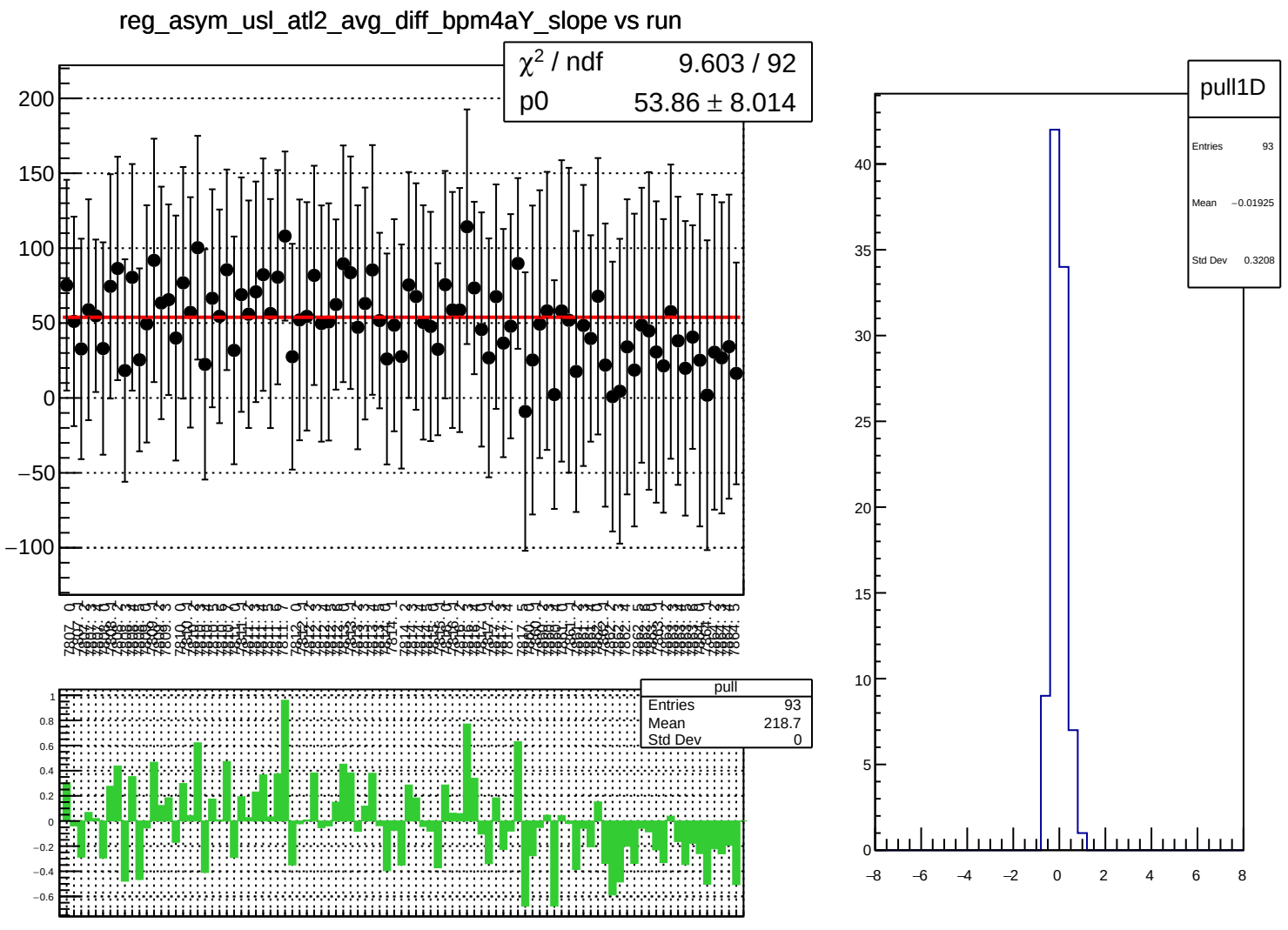

pull1D
Entries 93
Mean −0.005259
Std Dev 0.7629

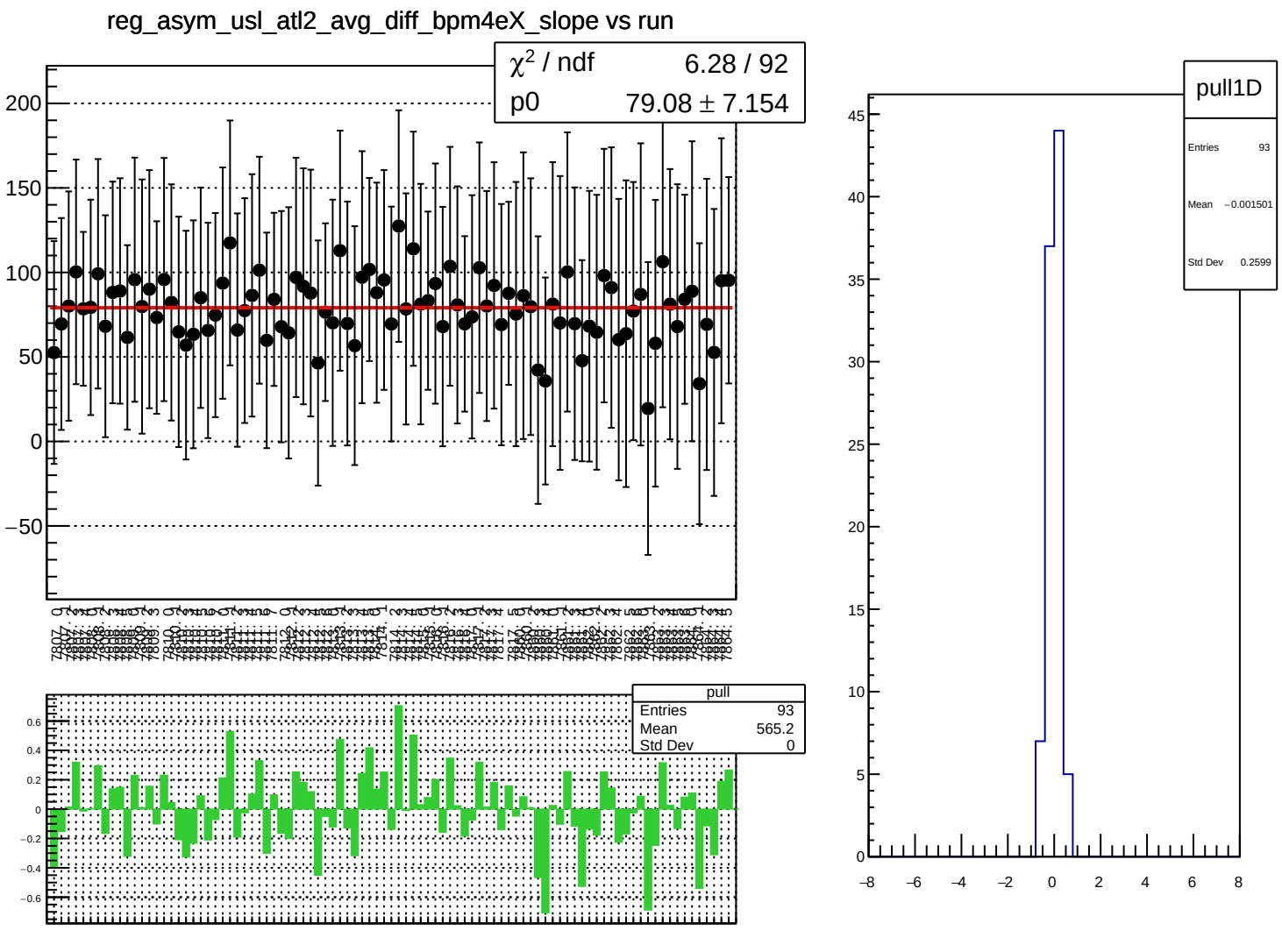

reg_asym_usl_atl1_dd_diff_bpm4eY_slope vs run
χ² / ndf 74.46 / 92
p0 11.58 ± 2.322
pull
Entries 93
Mean 404.8
Std Dev 0

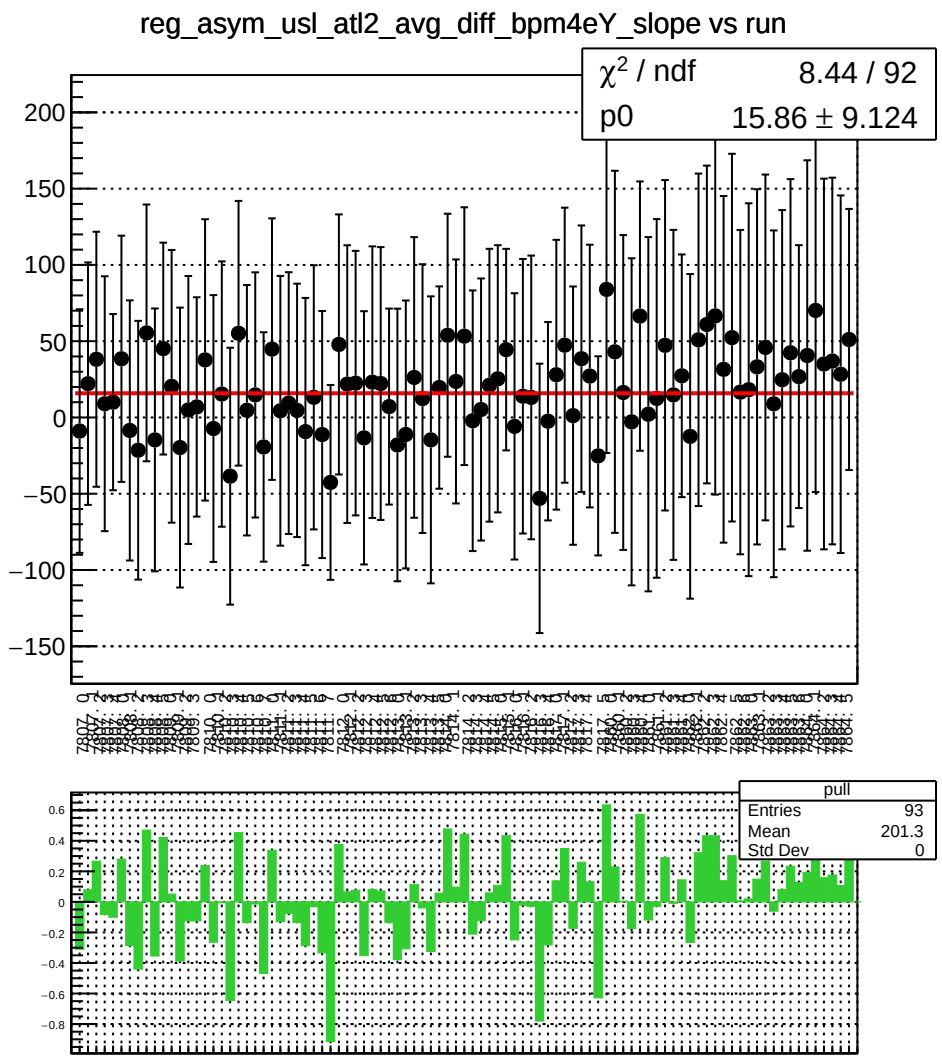

pull1D
Entries 93
Mean 0.003315
Std Dev 0.8948

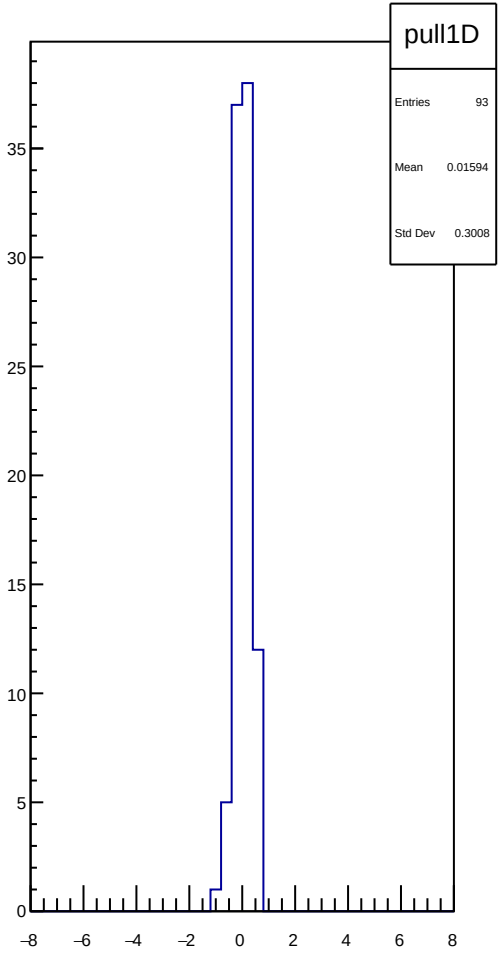

reg_asym_usl_atl1_dd_diff_bpm12X_slope vs run
χ² / ndf 358.1 / 92
p0 −20.21 ± 0.06753
pull
Entries 93
Mean 748.9
Std Dev 0
pull1D
Entries 93
Mean −0.05559
Std Dev 1.961

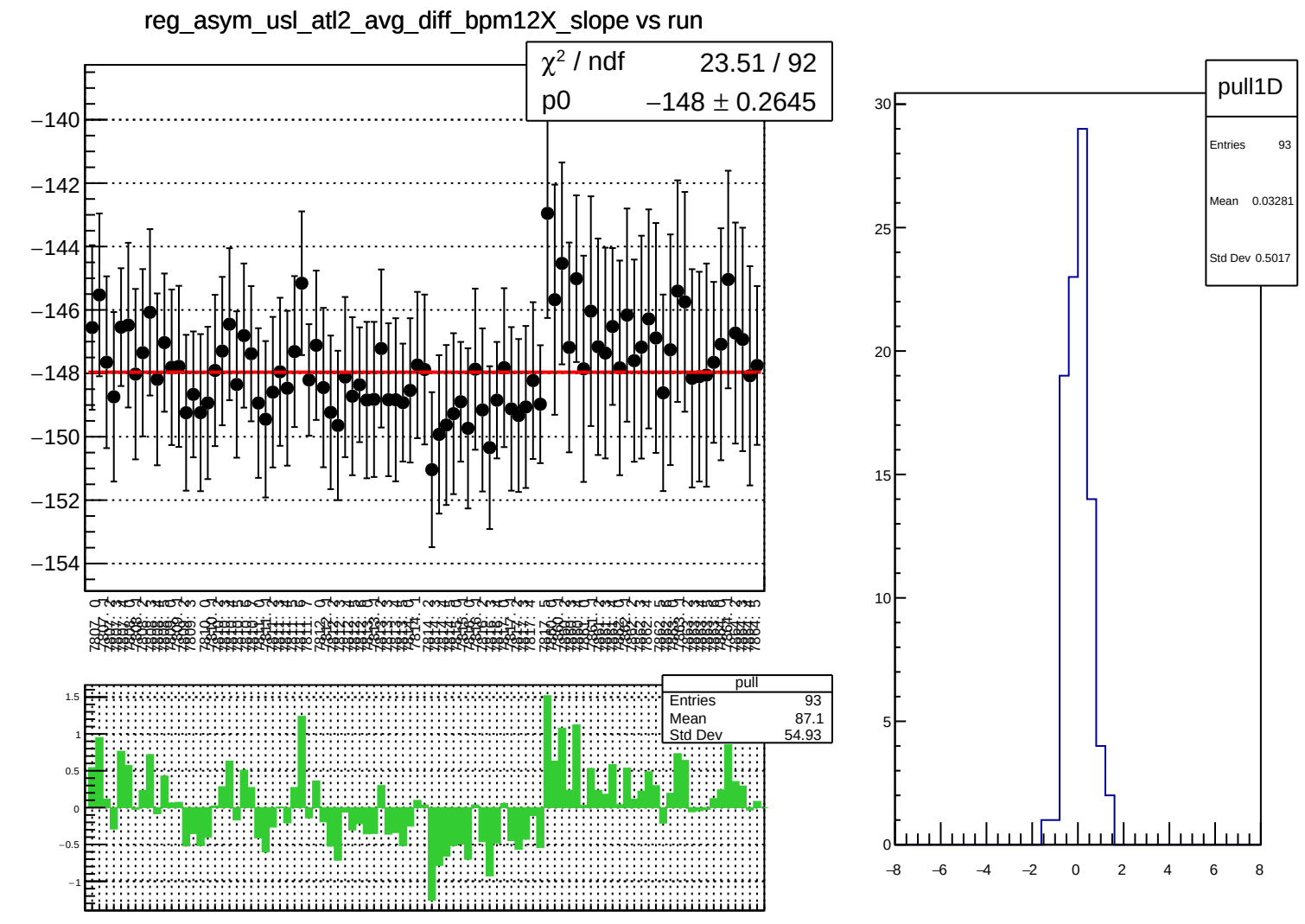

reg_asym_usl_atl2_avg_diff_bpm1X_slope vs run
χ² / ndf 6.095 / 92
p0 −151.9 ± 7.893
pull
Entries 93
Mean −74.1
Std Dev 0
pull1D
Entries 93
Mean −0.0007056
Std Dev 0.256

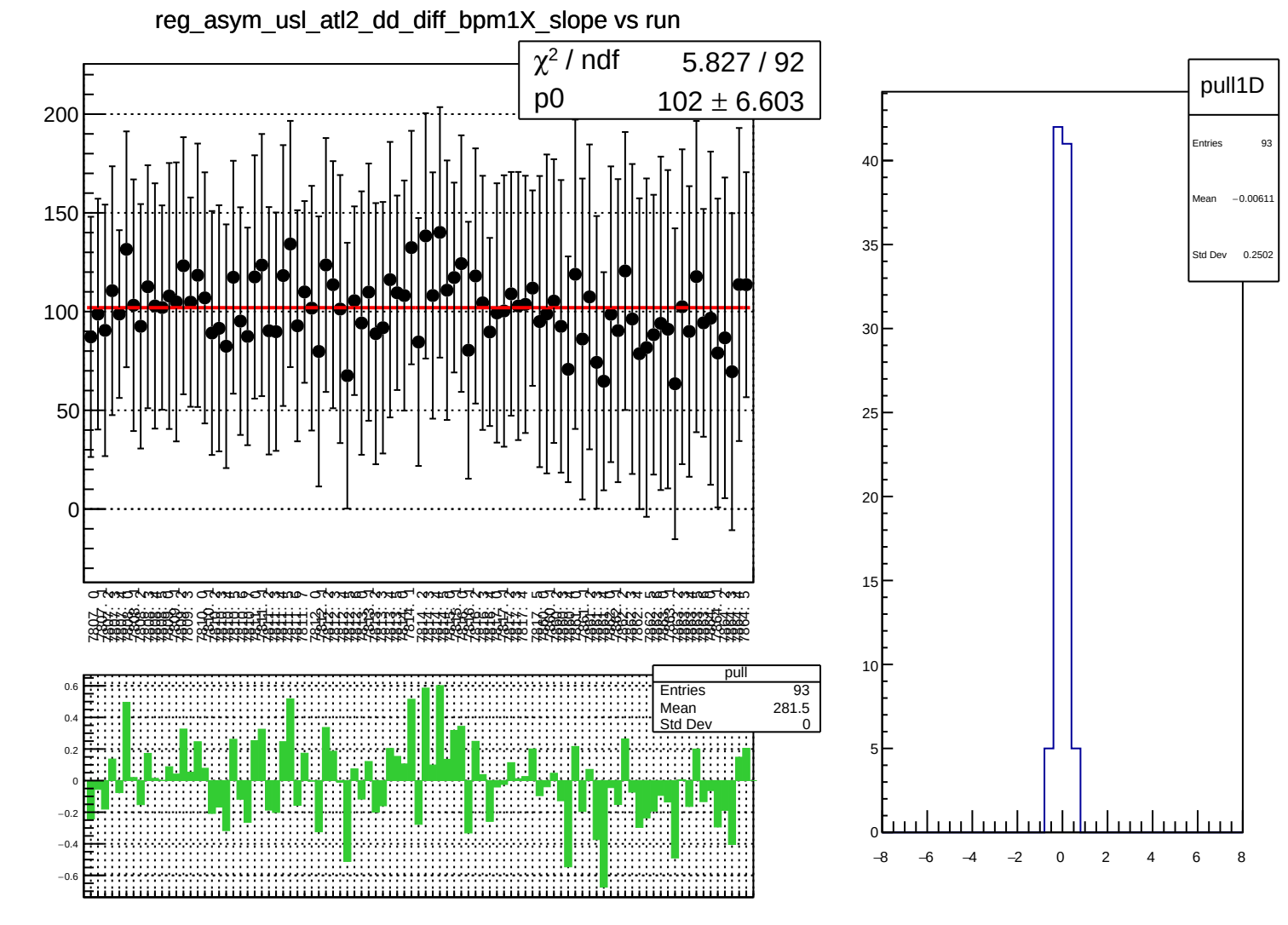

reg_asym_usl_atl2_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.603 / 92
p0 53.86 ± 8.014
200
150
100
50
0
−50
−100
pull
Entries 93
Mean 218.7
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 93
Mean −0.01925
Std Dev 0.3208
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

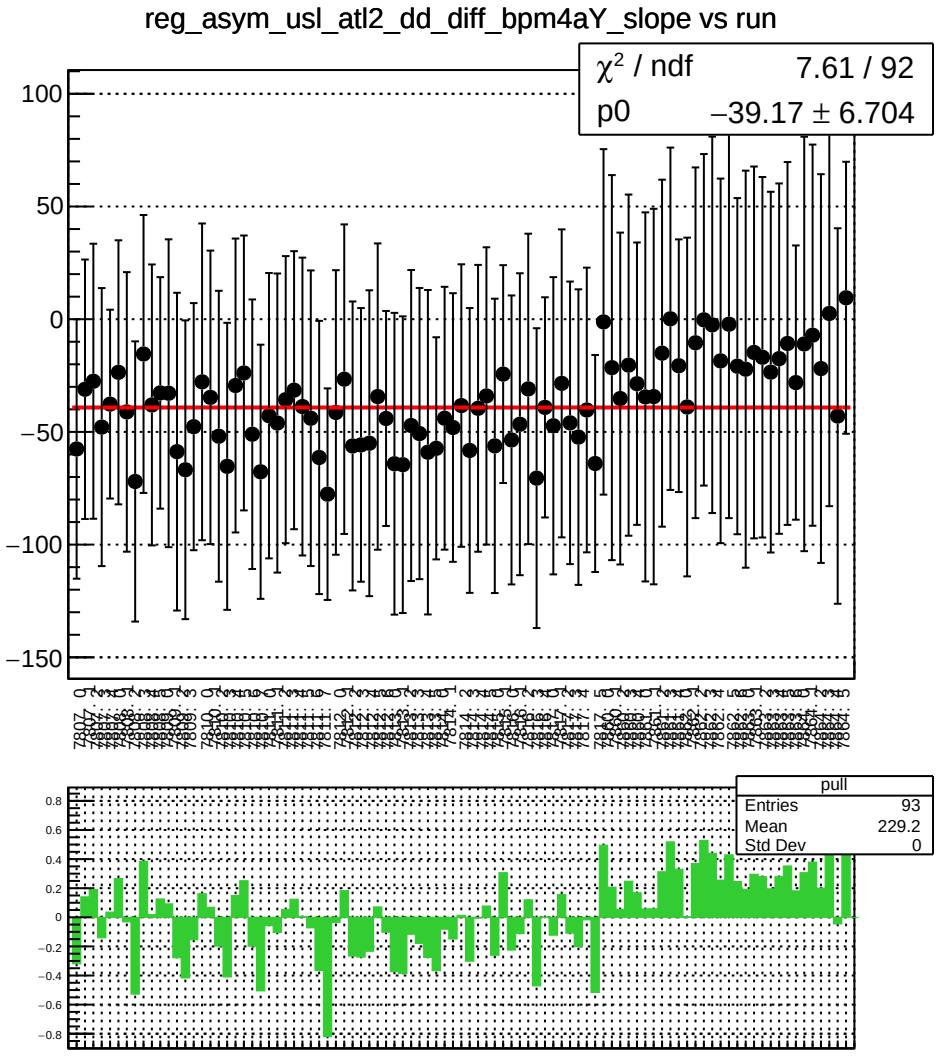

reg_asym_usl_atl2_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.28 / 92
p0 79.08 ± 7.154
pull
Entries 93
Mean 565.2
Std Dev 0
pull1D
Entries 93
Mean −0.001501
Std Dev 0.2599

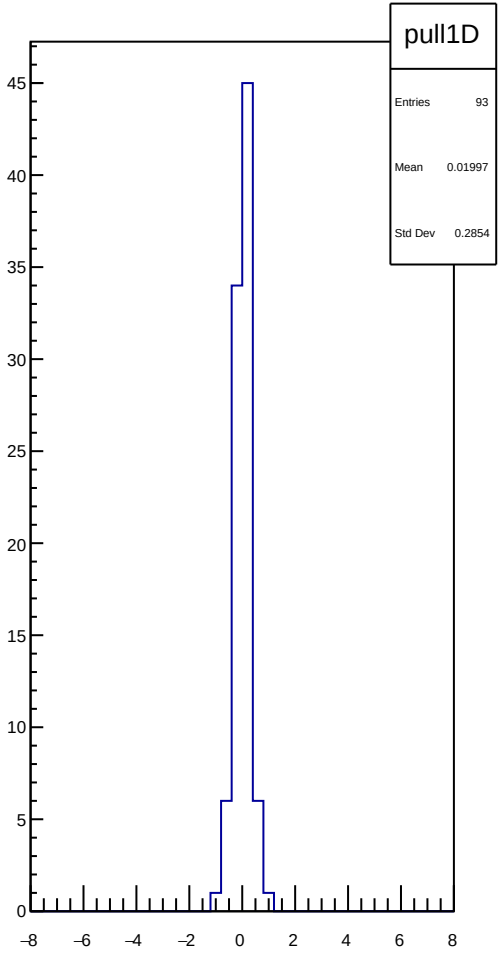

reg_asym_usl_atl2_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.44 / 92
p0 15.86 ± 9.124
pull
Entries 93
Mean 201.3
Std Dev 0

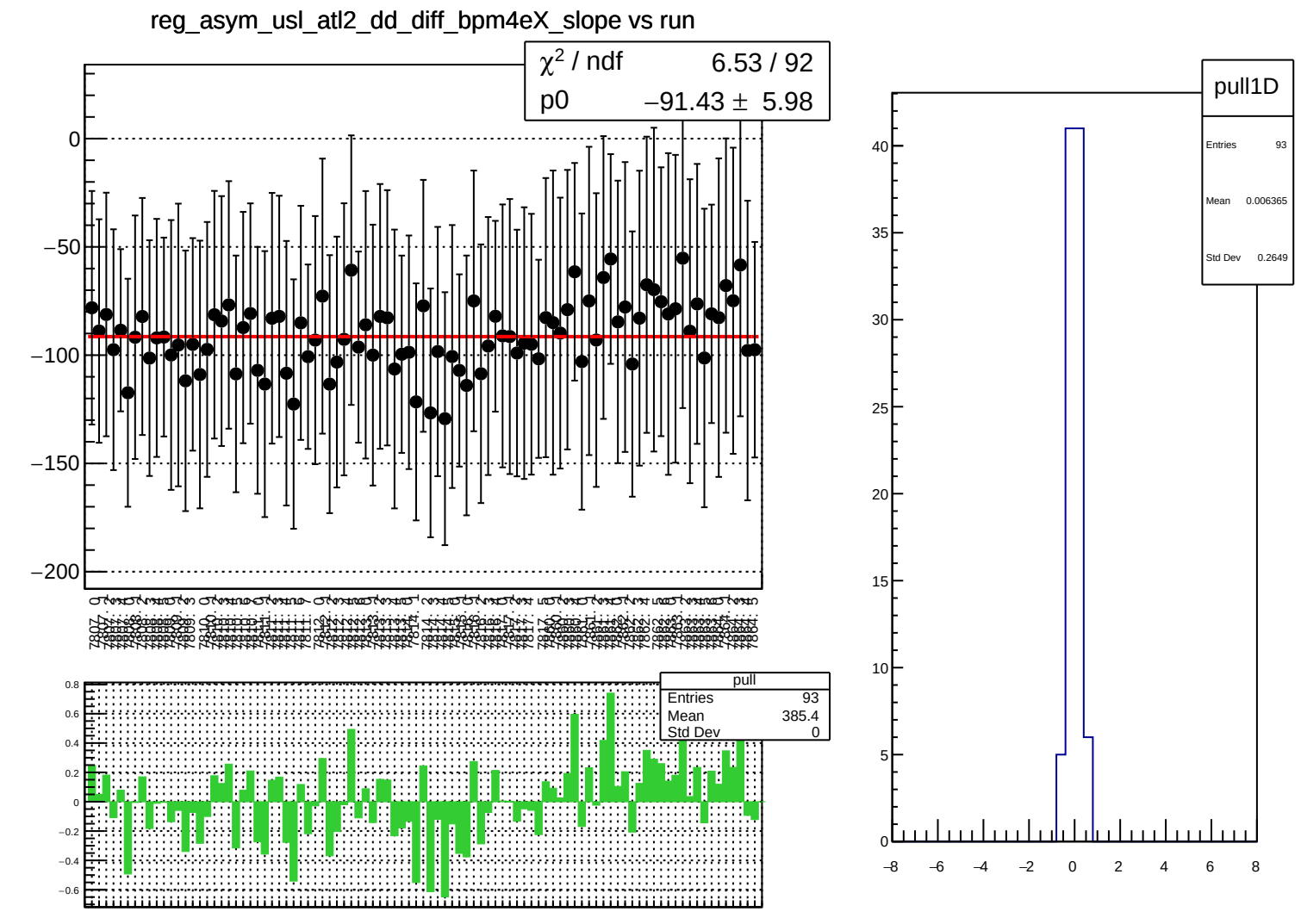

pull1D
Entries 93
Mean 0.01594
Std Dev 0.3008

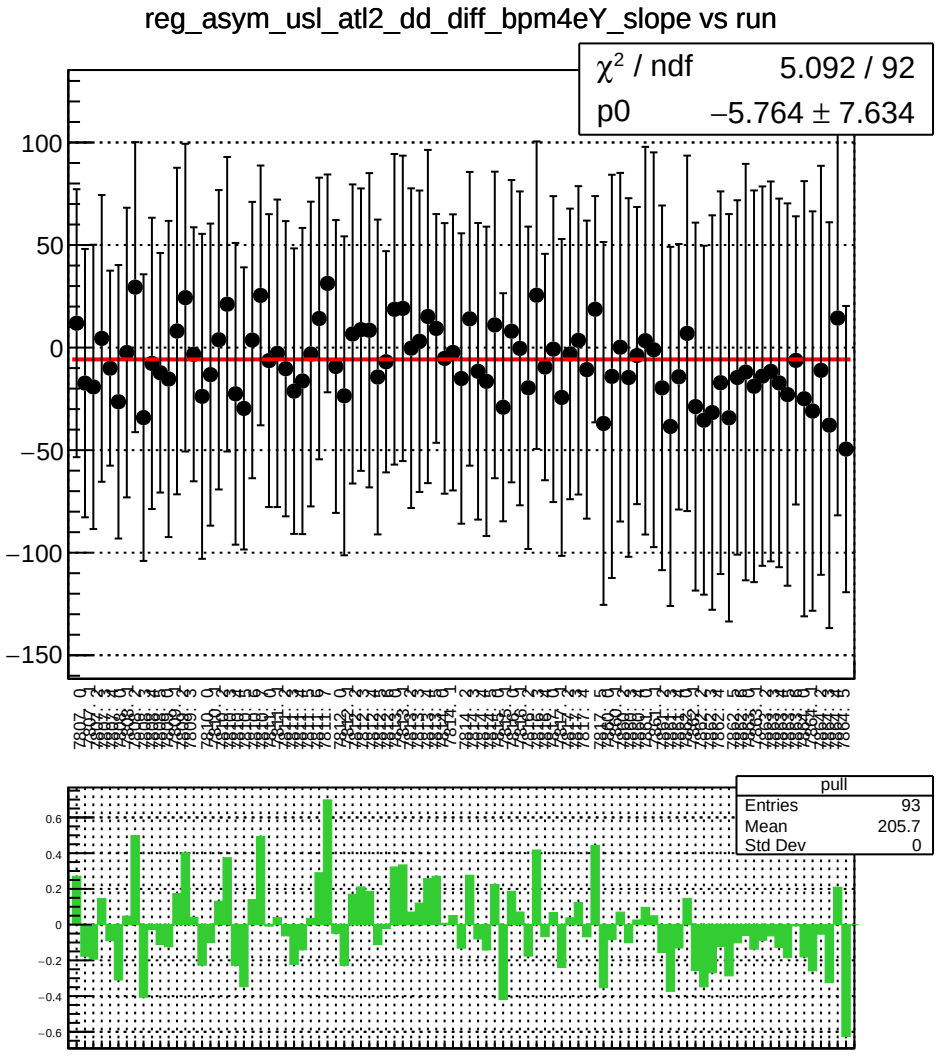

reg_asym_usl_atl2_avg_diff_bpm12X_slope vs run
χ² / ndf 23.51 / 92
p0 −148 ± 0.2645
−140
−142
−144
−146
−148
−150
−152
−154
pull
Entries 93
Mean 87.1
Std Dev 54.93
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 93
Mean 0.03281
Std Dev 0.5017
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

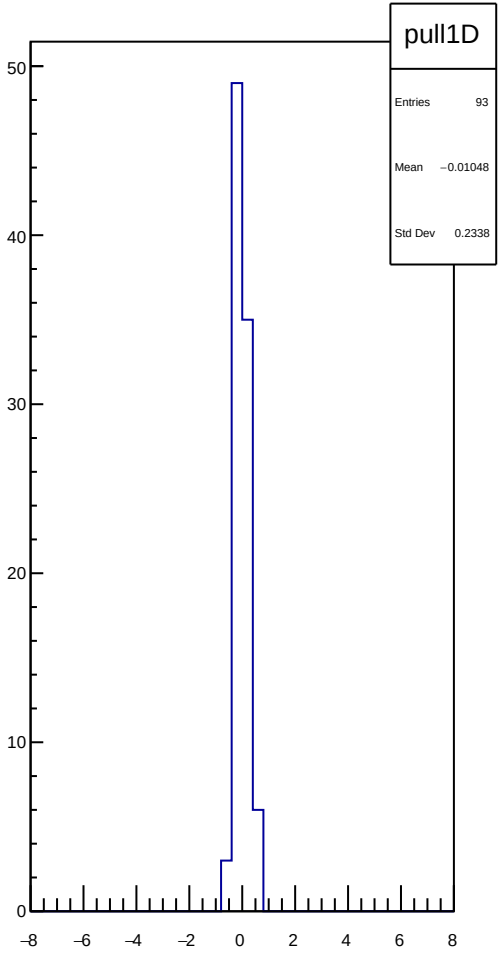

reg_asym_usl_atl2_dd_diff_bpm1X_slope vs run
χ² / ndf 5.827 / 92
p0 102 ± 6.603
200
150
100
50
0
pull
Entries 93
Mean 281.5
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 93
Mean −0.00611
Std Dev 0.2502
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

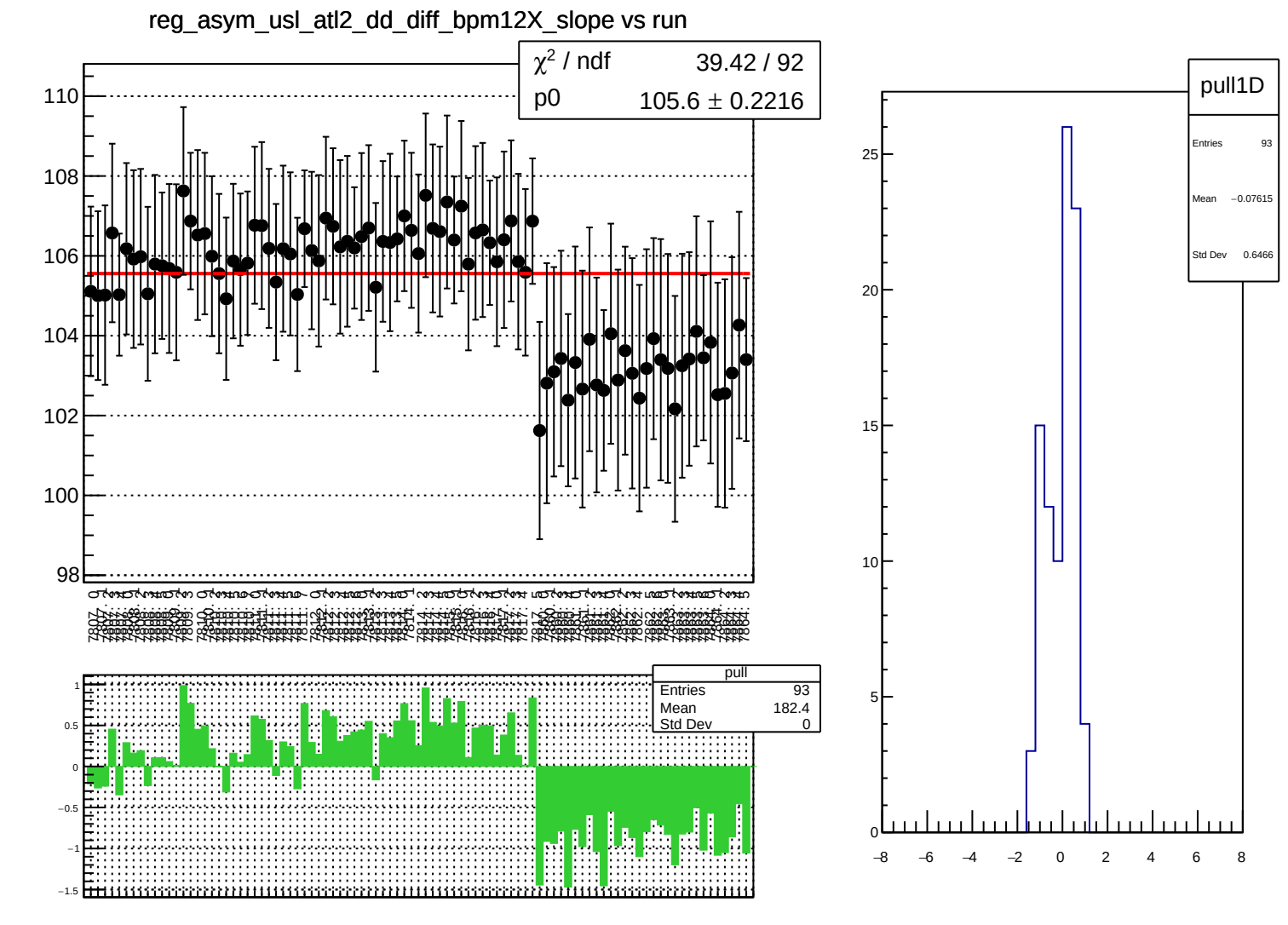

reg_asym_usl_atl2_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.61 / 92
p0 −39.17 ± 6.704
pull
Entries 93
Mean 229.2
Std Dev 0

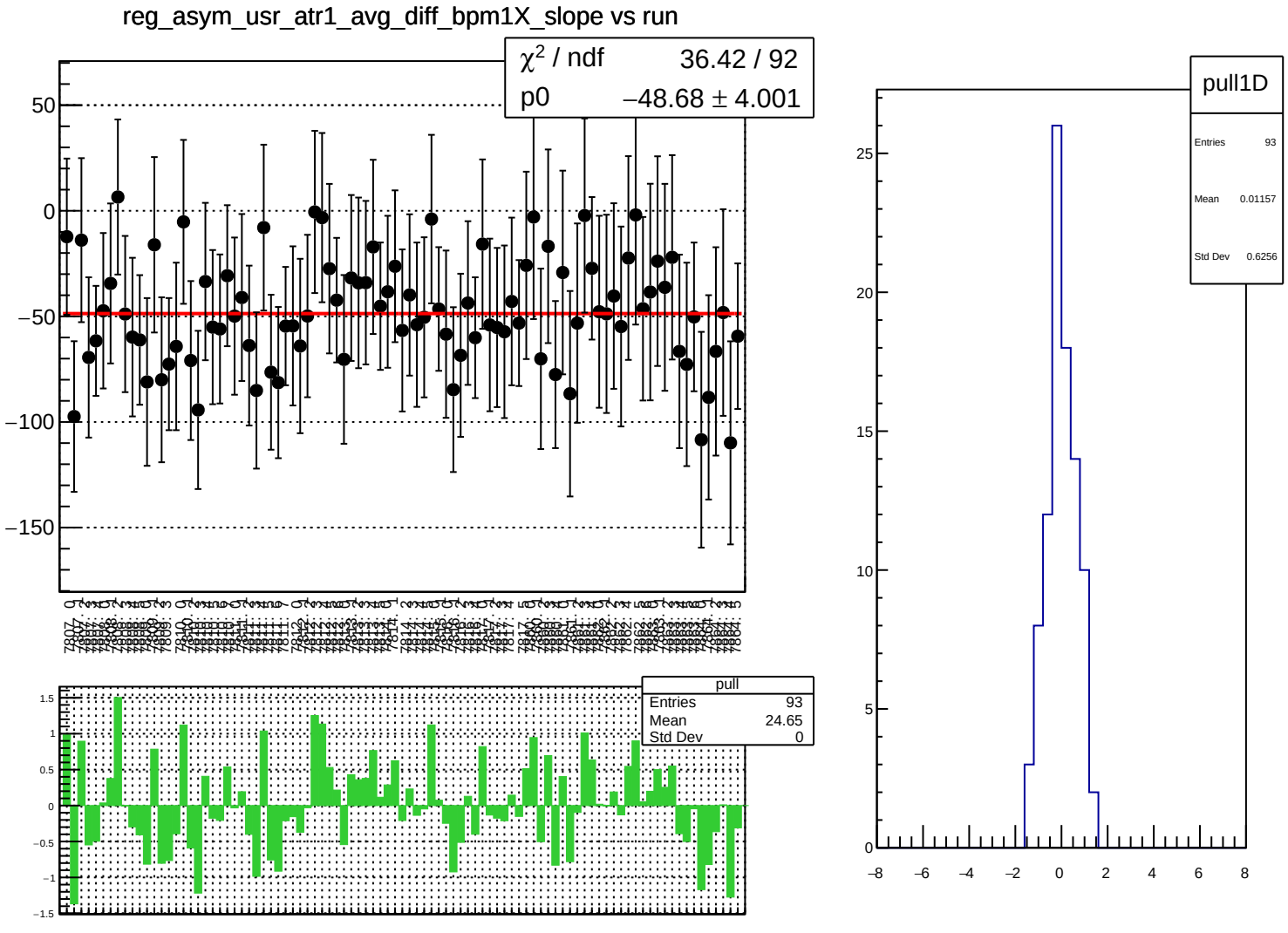

pull1D
Entries 93
Mean 0.01997
Std Dev 0.2854

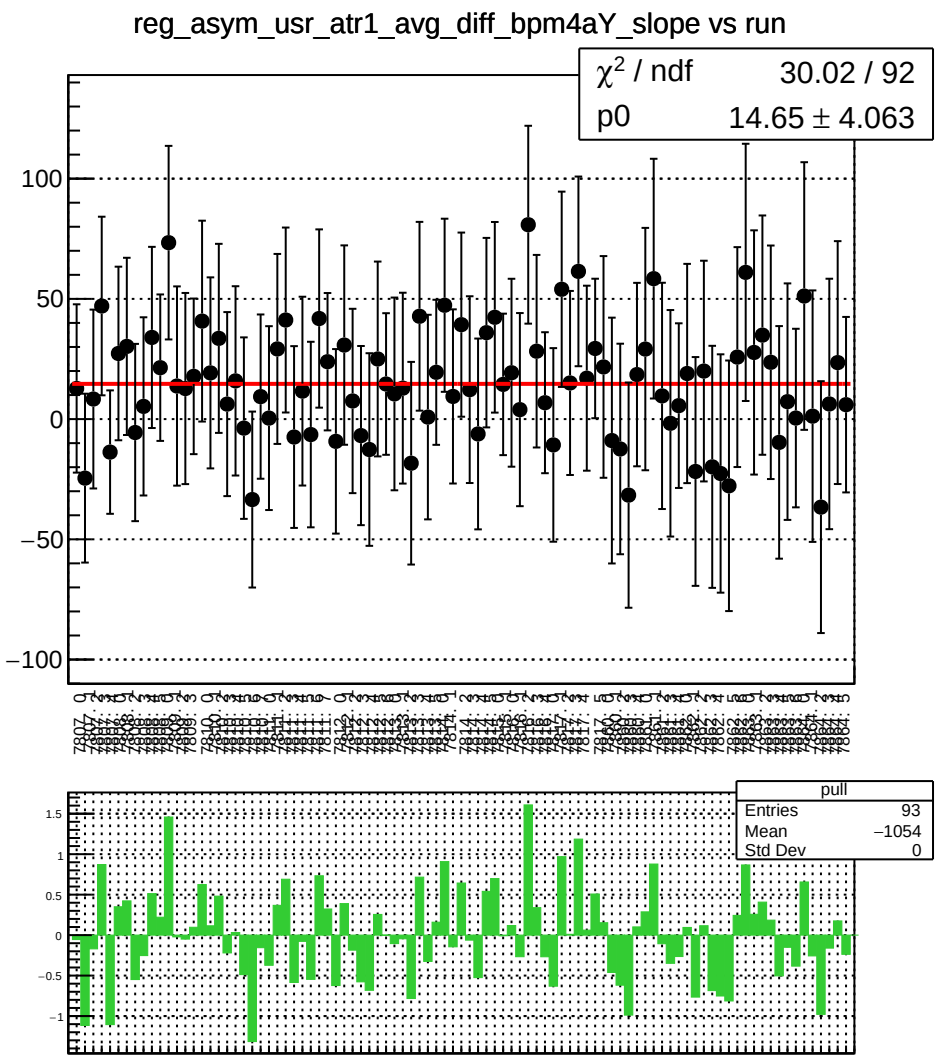

reg_asym_usl_atl2_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.53 / 92
p0 −91.43 ± 5.98
0
−50
−100
−150
−200
pull
Entries 93
Mean 385.4
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 93
Mean 0.006365
Std Dev 0.2649
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

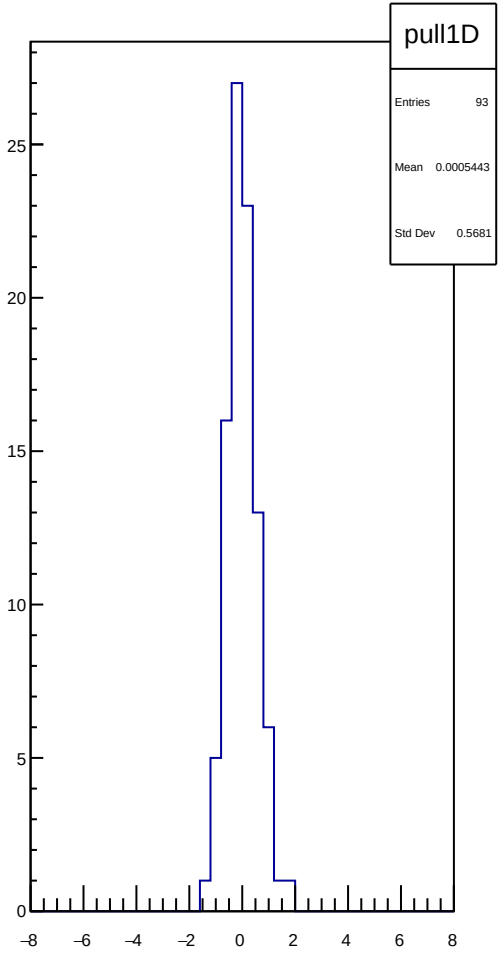

reg_asym_usl_atl2_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.092 / 92
p0 −5.764 ± 7.634
pull
Entries 93
Mean 205.7
Std Dev 0

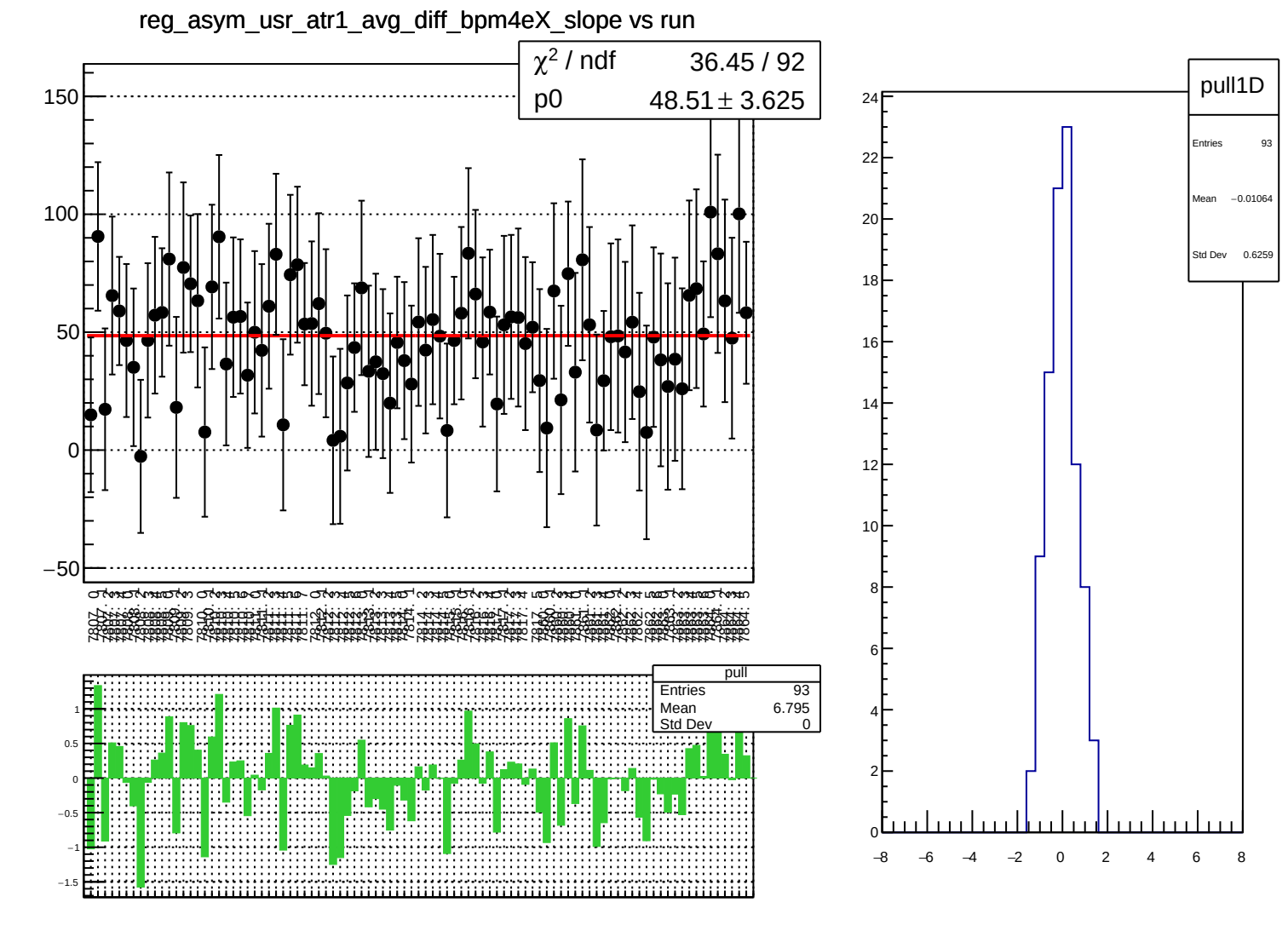

pull1D
Entries 93
Mean −0.01048
Std Dev 0.2338

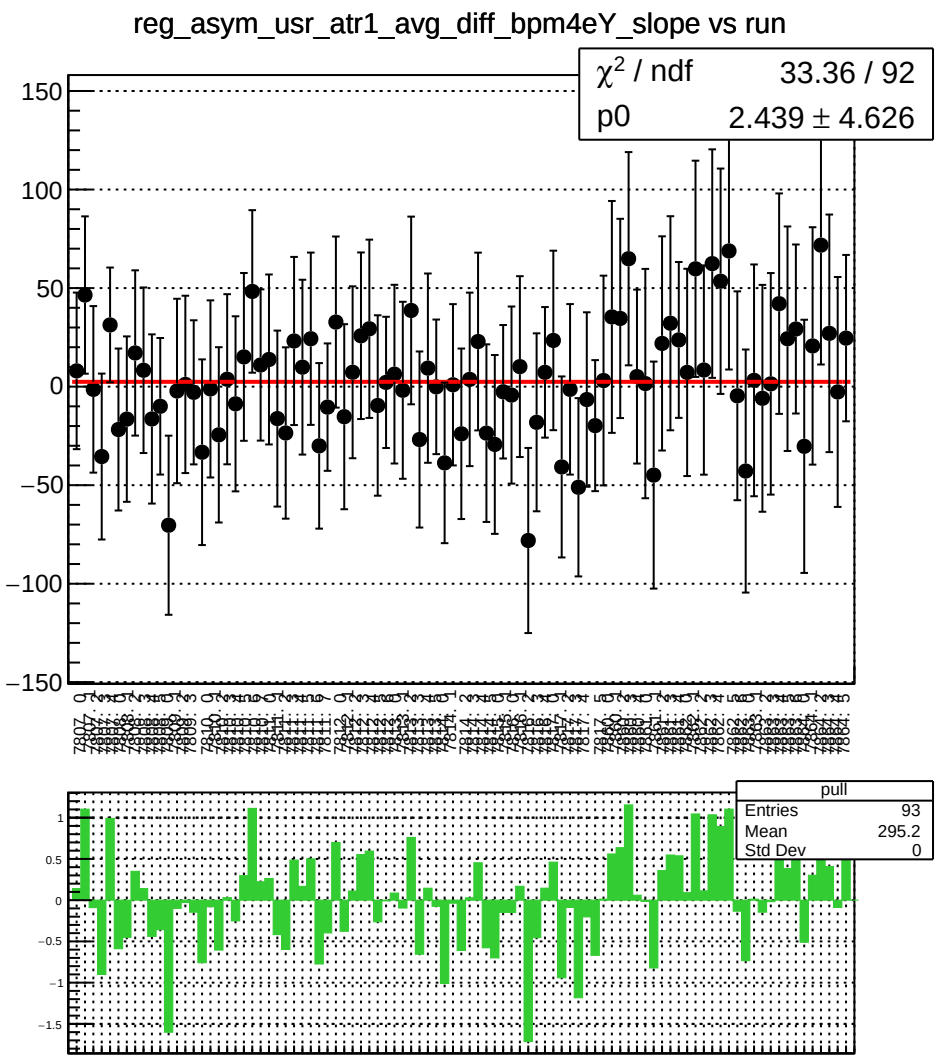

reg_asym_usl_atl2_dd_diff_bpm12X_slope vs run
χ² / ndf 39.42 / 92
p0 105.6 ± 0.2216
110
108
106
104
102
100
98
pull
Entries 93
Mean 182.4
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 93
Mean −0.07615
Std Dev 0.6466
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

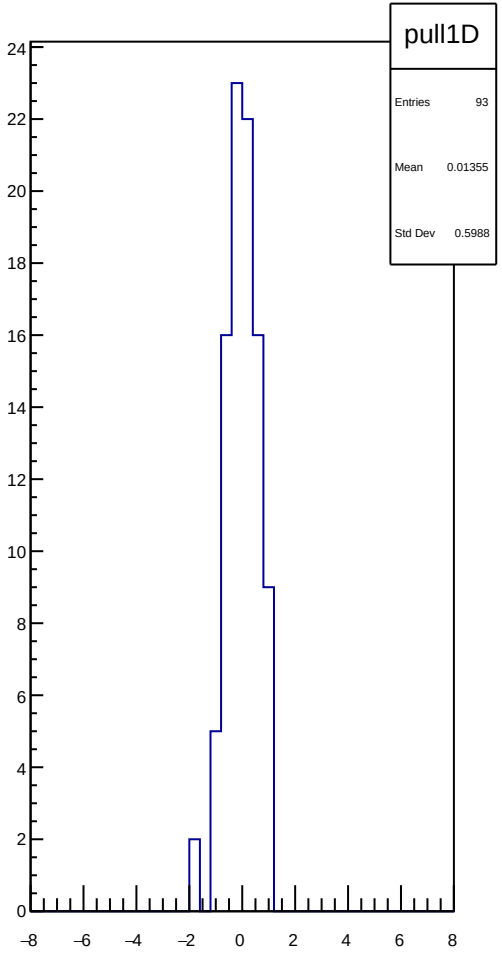

reg_asym_usr_atr1_avg_diff_bpm1X_slope vs run
χ² / ndf 36.42 / 92
p0 −48.68 ± 4.001
50
0
−50
−100
−150
pull
Entries 93
Mean 24.65
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 93
Mean 0.01157
Std Dev 0.6256
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

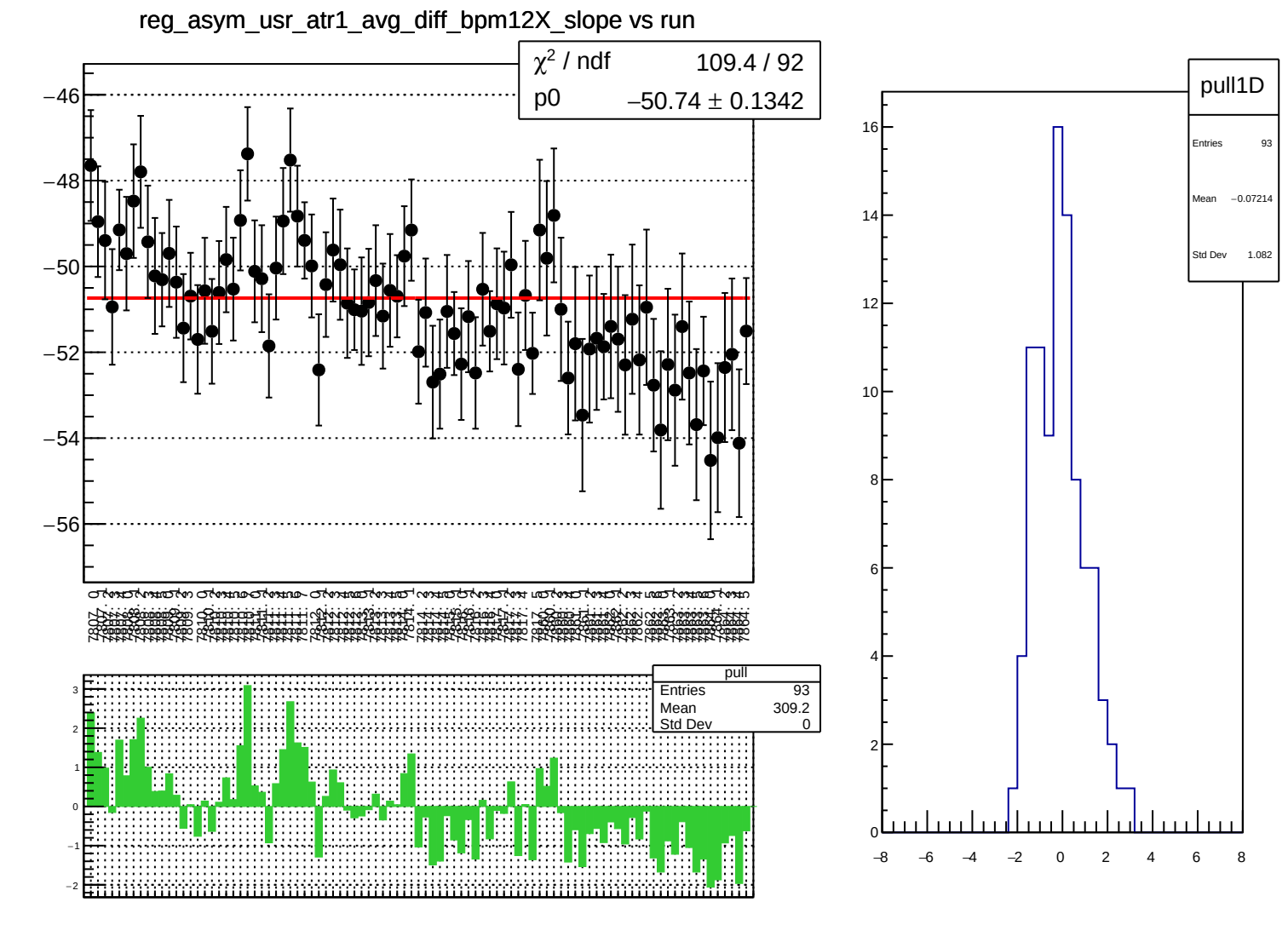

reg_asym_usr_atr1_avg_diff_bpm4aY_slope vs run
χ² / ndf 30.02 / 92
p0 14.65 ± 4.063
100
50
0
−50
−100
pull
Entries 93
Mean −1054
Std Dev 0
1.5
1
0.5
0
−0.5
−1

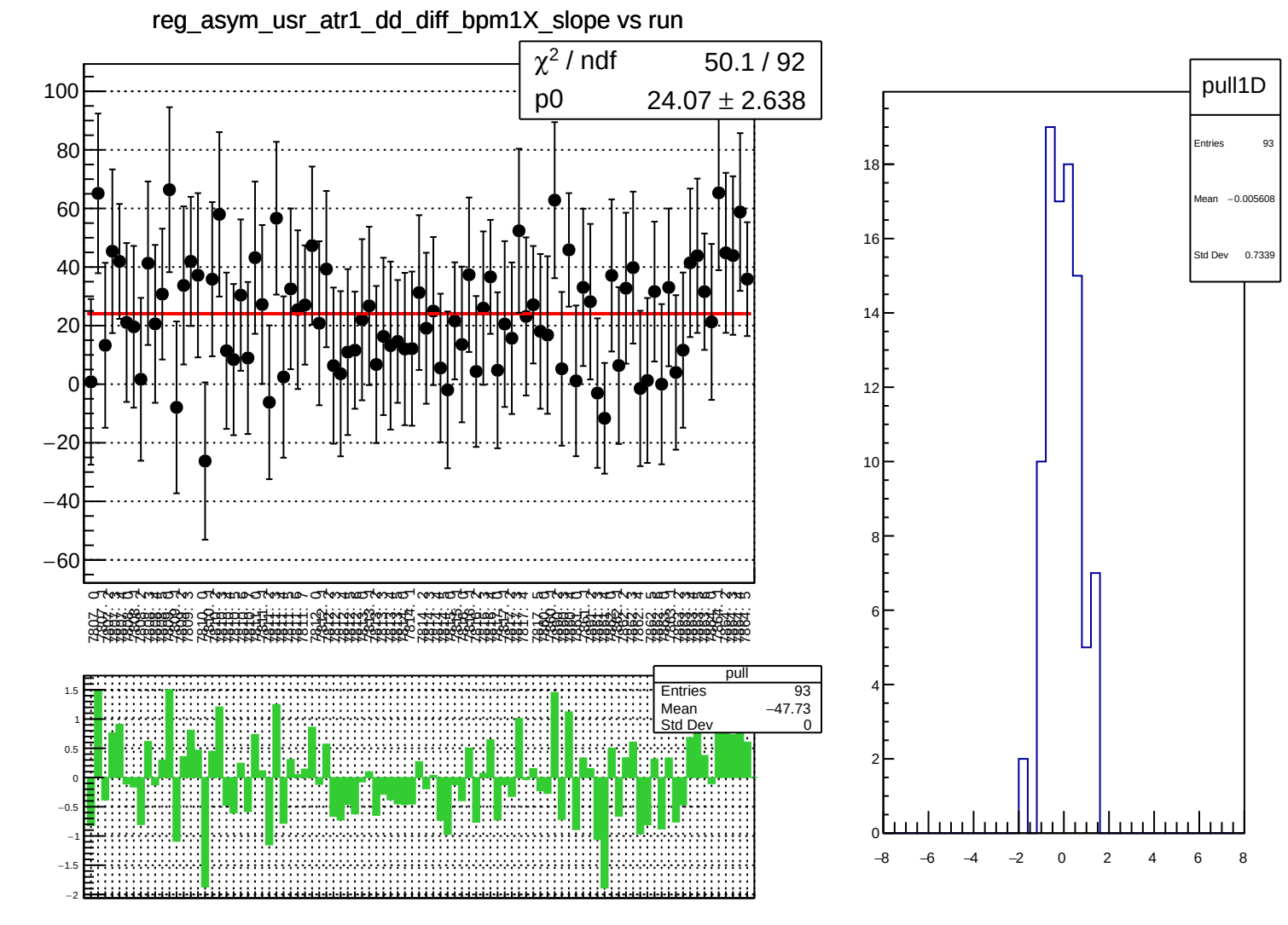

pull1D
Entries 93
Mean 0.0005443
Std Dev 0.5681
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

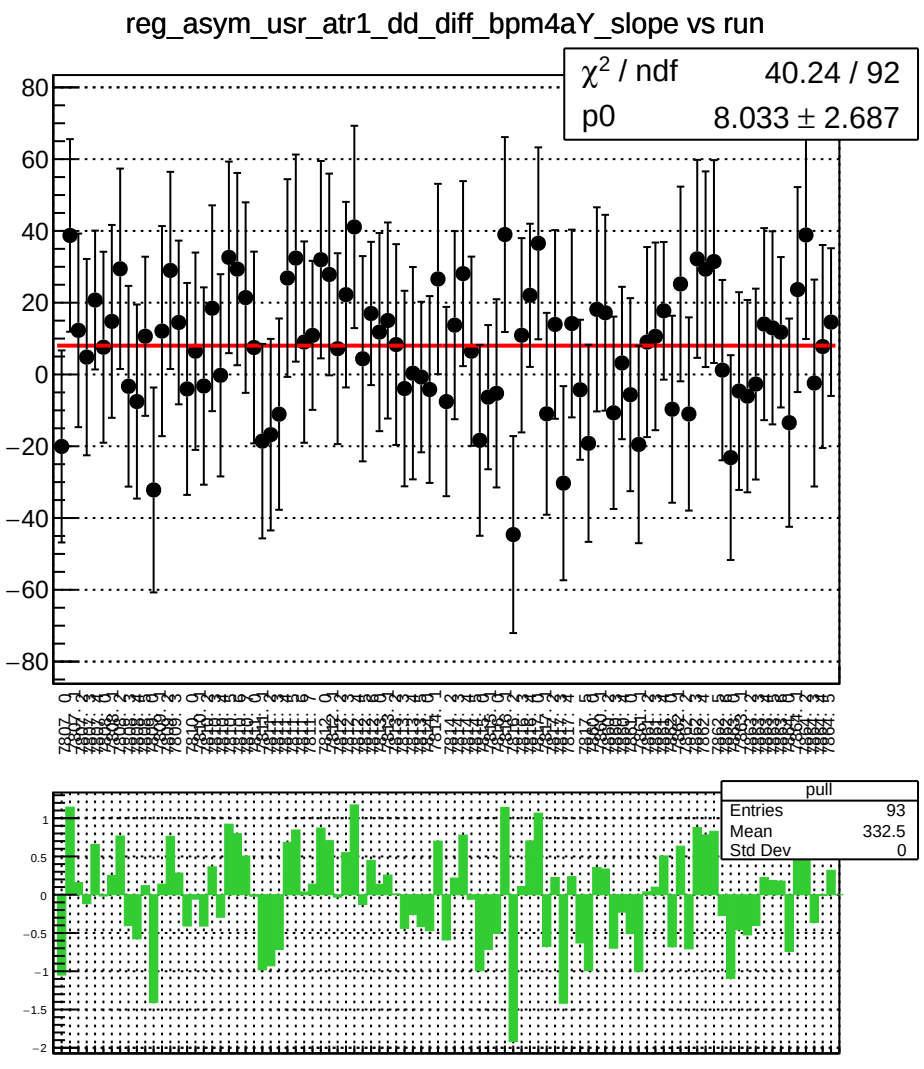

reg_asym_usr_atr1_avg_diff_bpm4eX_slope vs run
χ² / ndf 36.45 / 92
p0 48.51 ± 3.625
150
100
50
0
−50
pull
Entries 93
Mean 6.795
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 93
Mean −0.01064
Std Dev 0.6259
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

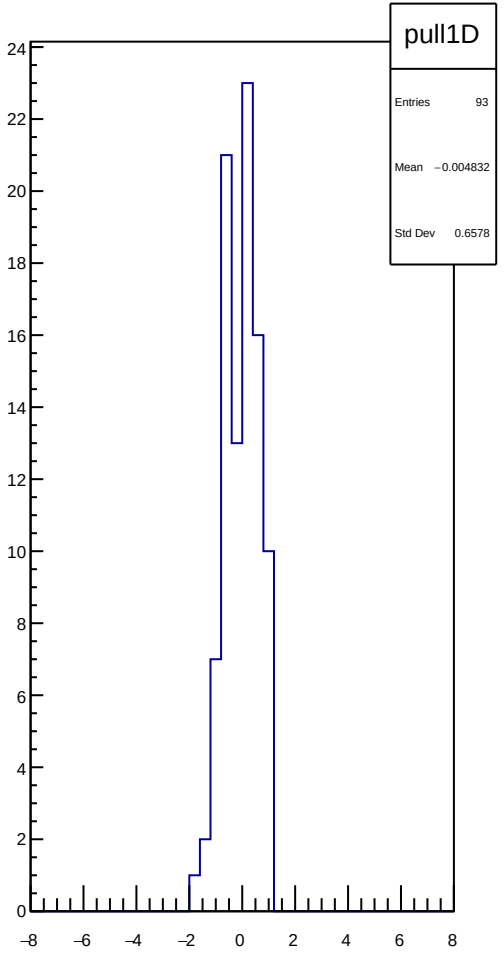

reg_asym_usr_atr1_avg_diff_bpm4eY_slope vs run
χ² / ndf 33.36 / 92
p0 2.439 ± 4.626
pull
Entries 93
Mean 295.2
Std Dev 0

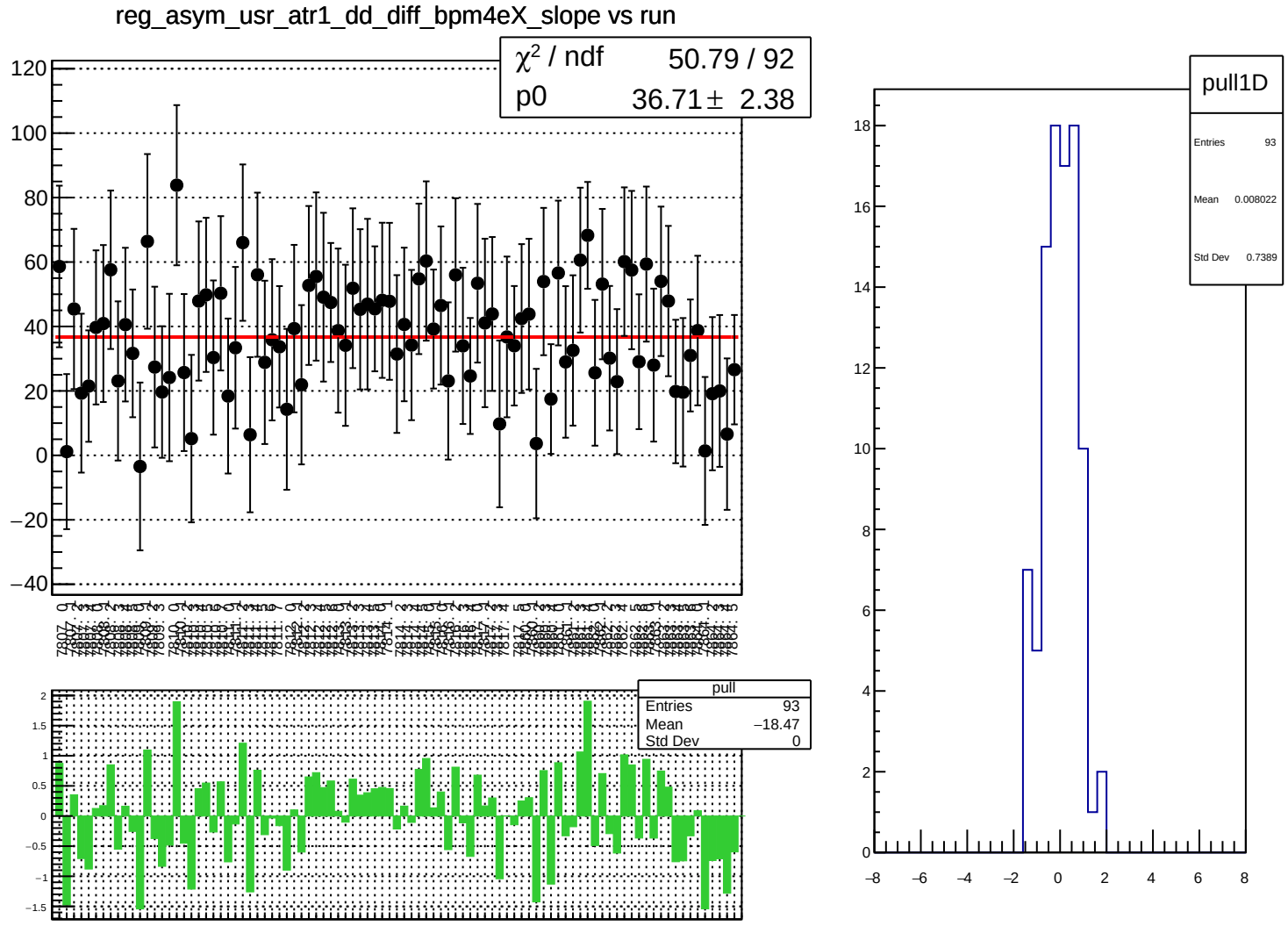

pull1D
Entries 93
Mean 0.01355
Std Dev 0.5988

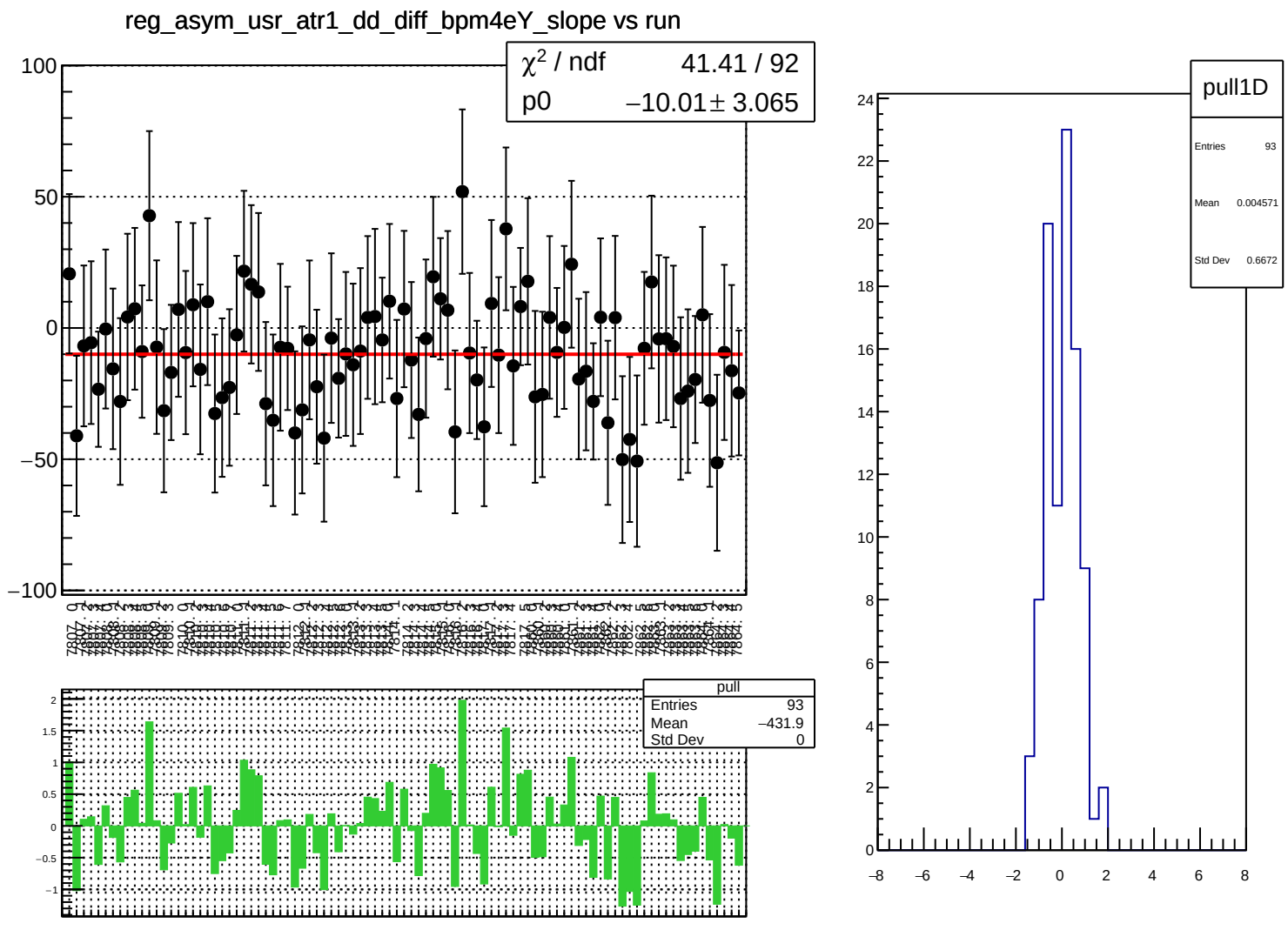

reg_asym_usr_atr1_avg_diff_bpm12X_slope vs run
χ² / ndf 109.4 / 92
p0 −50.74 ± 0.1342
−46
−48
−50
−52
−54
−56
pull
Entries 93
Mean 309.2
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.07214
Std Dev 1.082
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

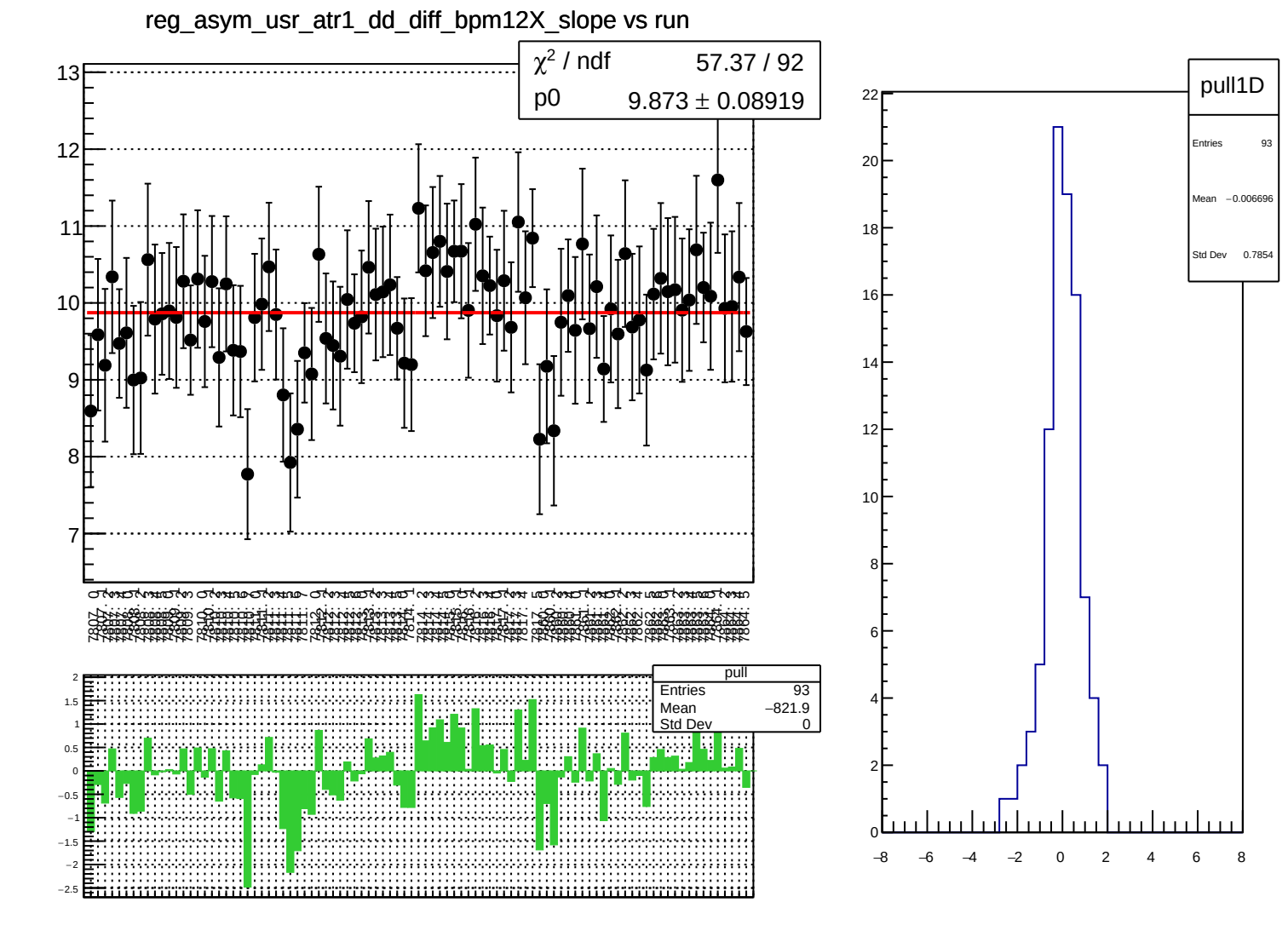

reg_asym_usr_atr1_dd_diff_bpm1X_slope vs run
χ² / ndf 50.1 / 92
p0 24.07 ± 2.638
pull
Entries 93
Mean −47.73
Std Dev 0
pull1D
Entries 93
Mean −0.005608
Std Dev 0.7339

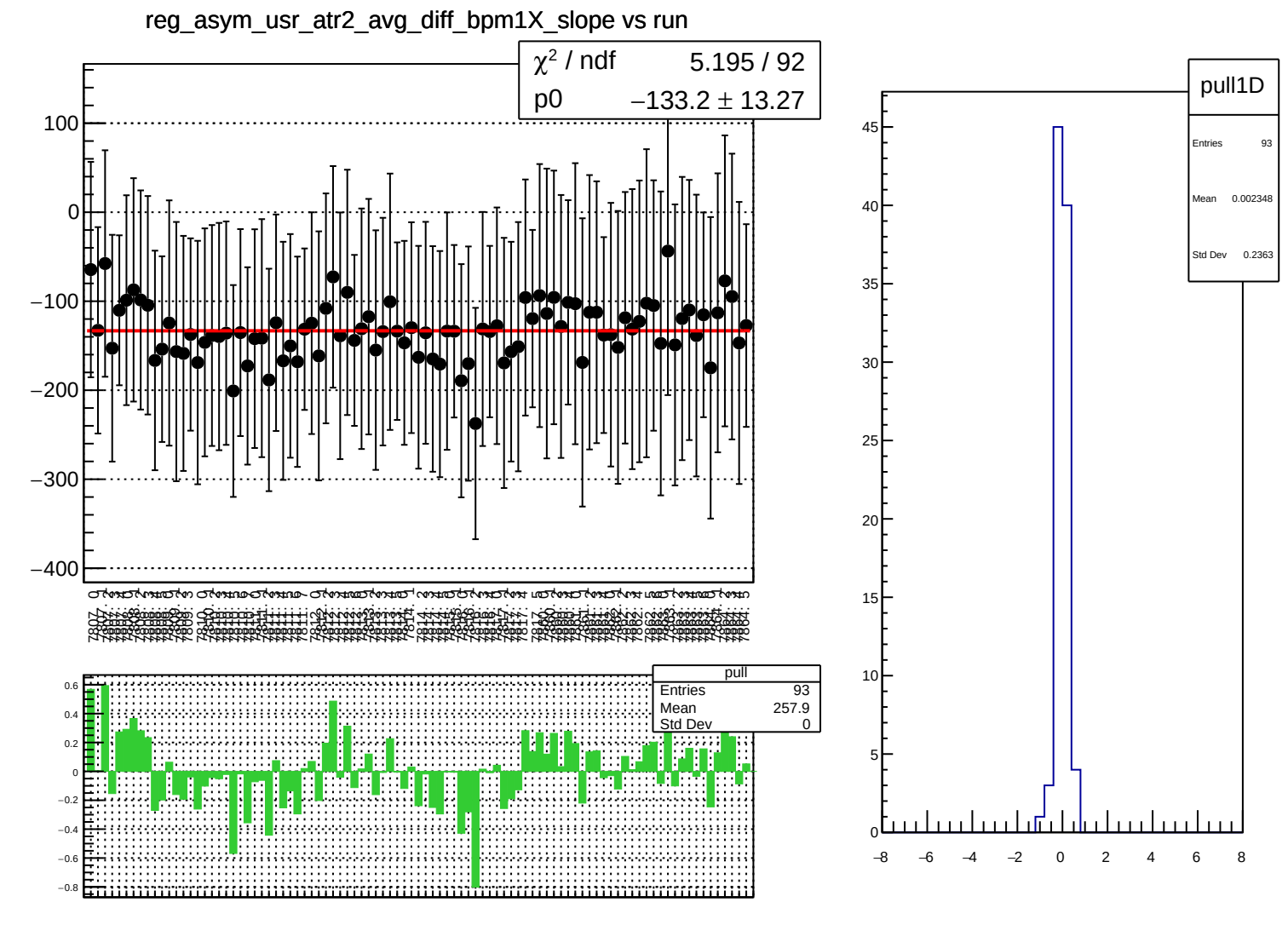

reg_asym_usr_atr1_dd_diff_bpm4aY_slope vs run
χ² / ndf 40.24 / 92
p0 8.033 ± 2.687
pull
Entries 93
Mean 332.5
Std Dev 0

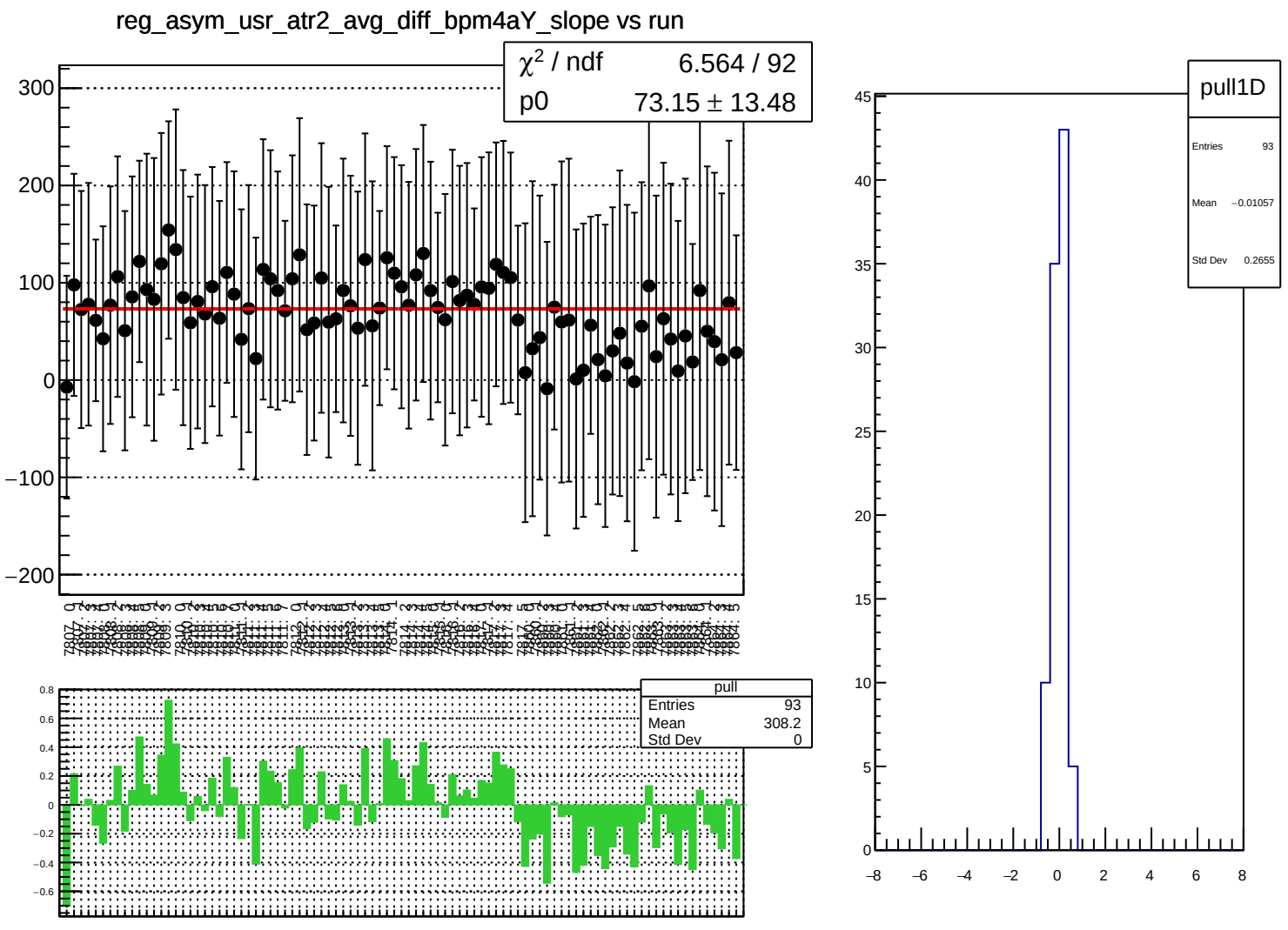

pull1D
Entries 93
Mean −0.004832
Std Dev 0.6578

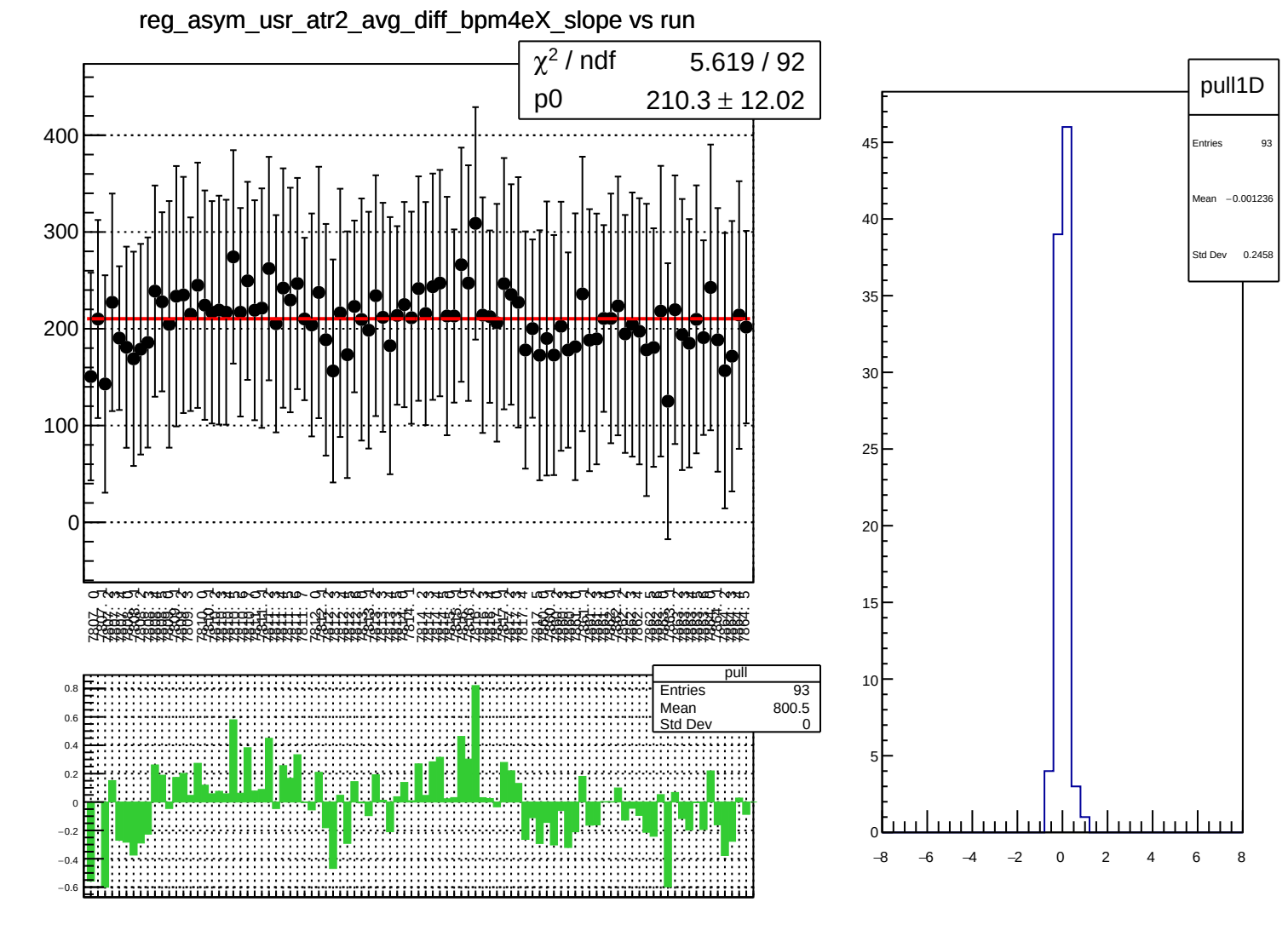

reg_asym_usr_atr1_dd_diff_bpm4eX_slope vs run
χ² / ndf 50.79 / 92
p0 36.71 ± 2.38
pull
Entries 93
Mean −18.47
Std Dev 0
pull1D
Entries 93
Mean 0.008022
Std Dev 0.7389

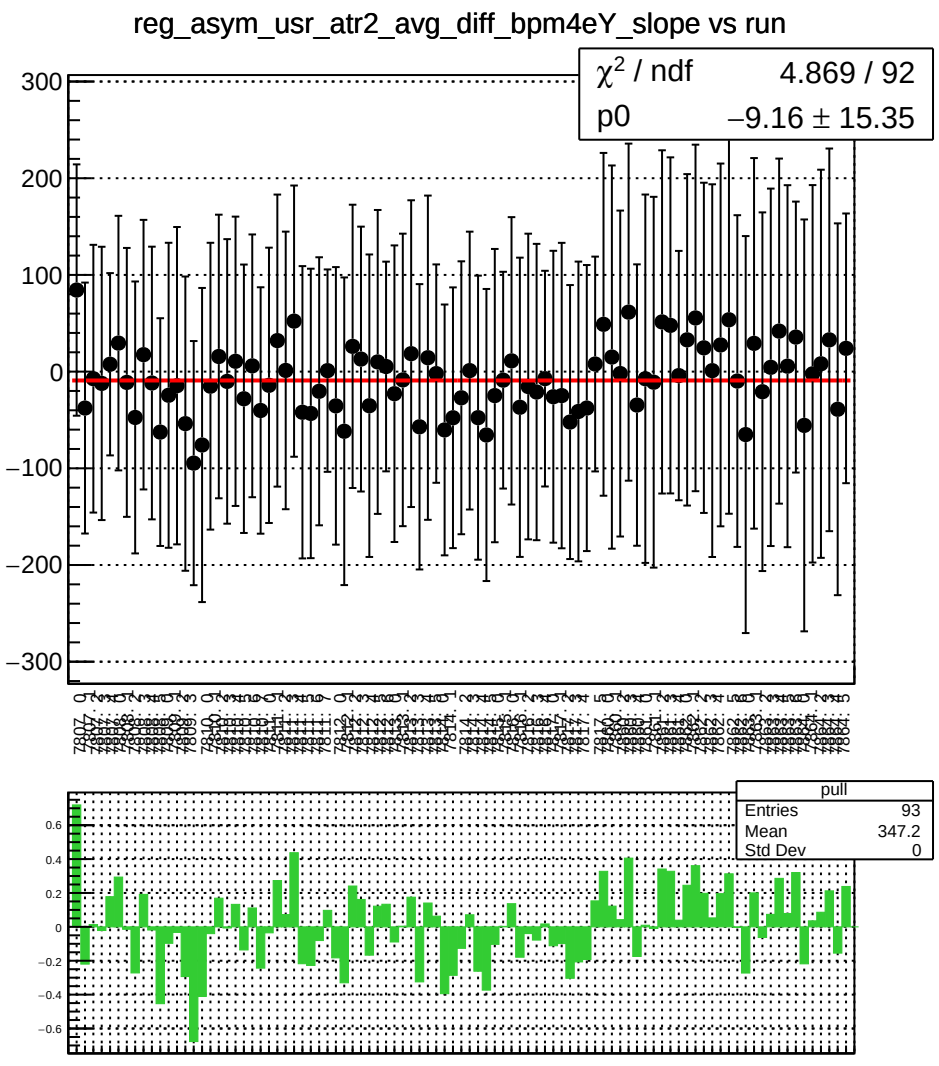

reg_asym_usr_atr1_dd_diff_bpm4eY_slope vs run
χ² / ndf 41.41 / 92
p0 −10.01 ± 3.065
pull
Entries 93
Mean −431.9
Std Dev 0
pull1D
Entries 93
Mean 0.004571
Std Dev 0.6672

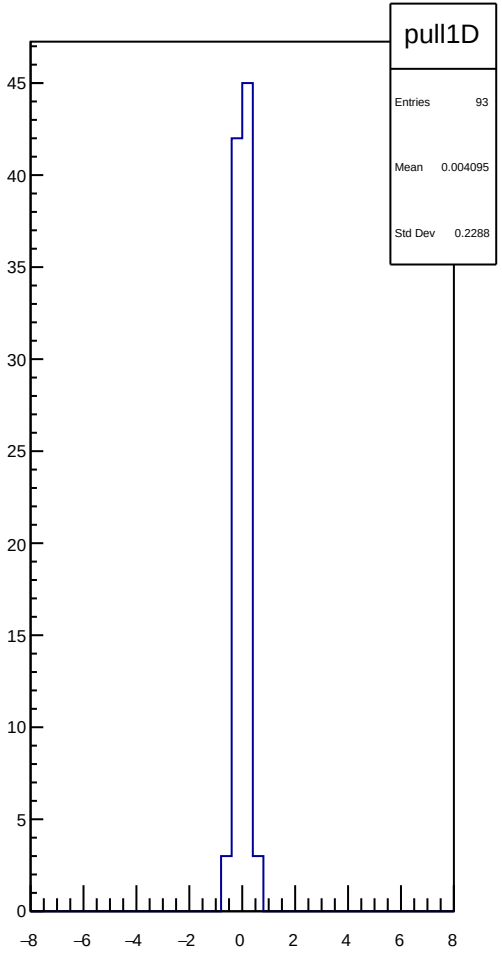

reg_asym_usr_atr1_dd_diff_bpm12X_slope vs run
χ² / ndf 57.37 / 92
p0 9.873 ± 0.08919
pull
Entries 93
Mean −821.9
Std Dev 0
pull1D
Entries 93
Mean −0.006696
Std Dev 0.7854

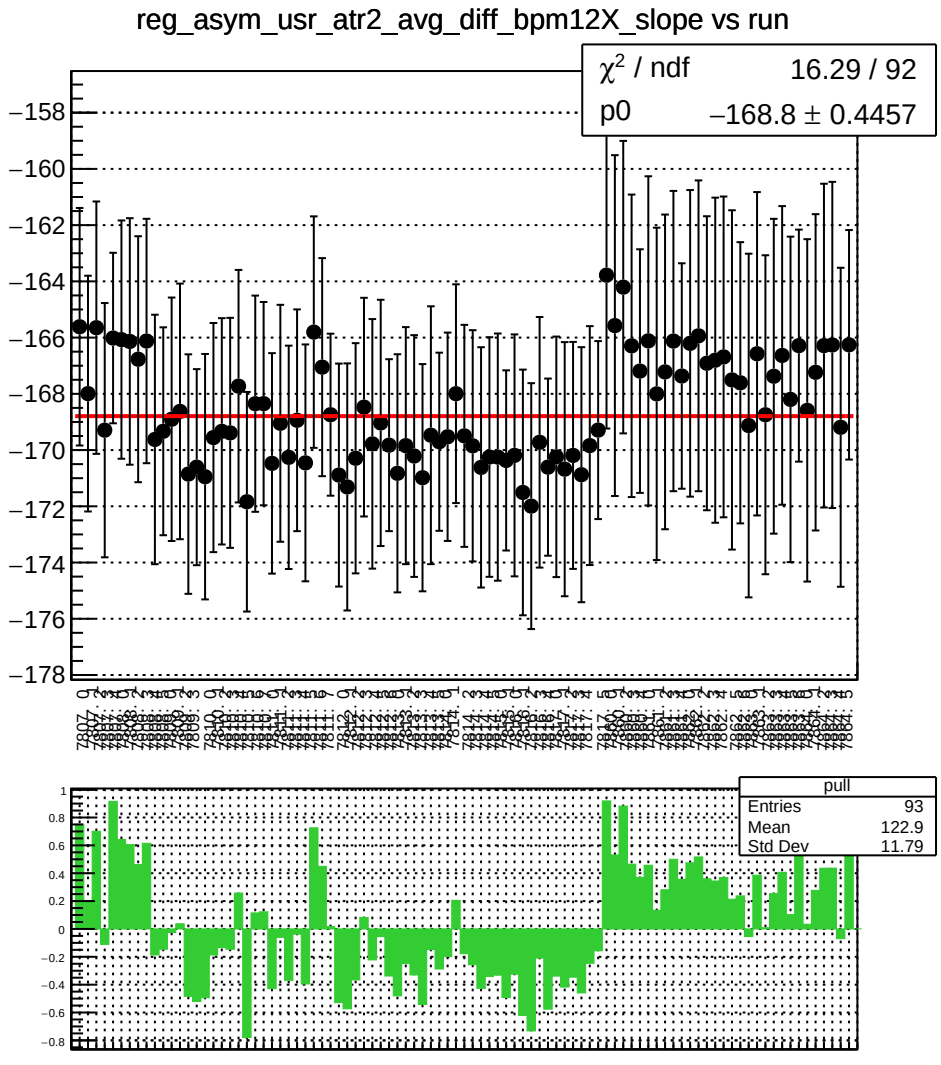

reg_asym_usr_atr2_avg_diff_bpm1X_slope vs run
χ² / ndf 5.195 / 92
p0 −133.2 ± 13.27
pull
Entries 93
Mean 257.9
Std Dev 0
pull1D
Entries 93
Mean 0.002348
Std Dev 0.2363

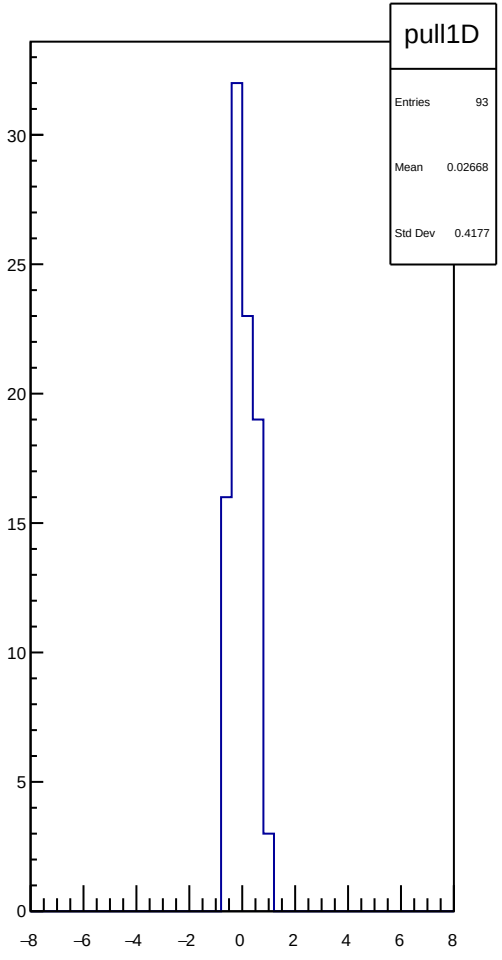

reg_asym_usr_atr2_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.564 / 92
p0 73.15 ± 13.48
300
200
100
0
−100
−200
pull
Entries 93
Mean 308.2
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 93
Mean −0.01057
Std Dev 0.2655
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

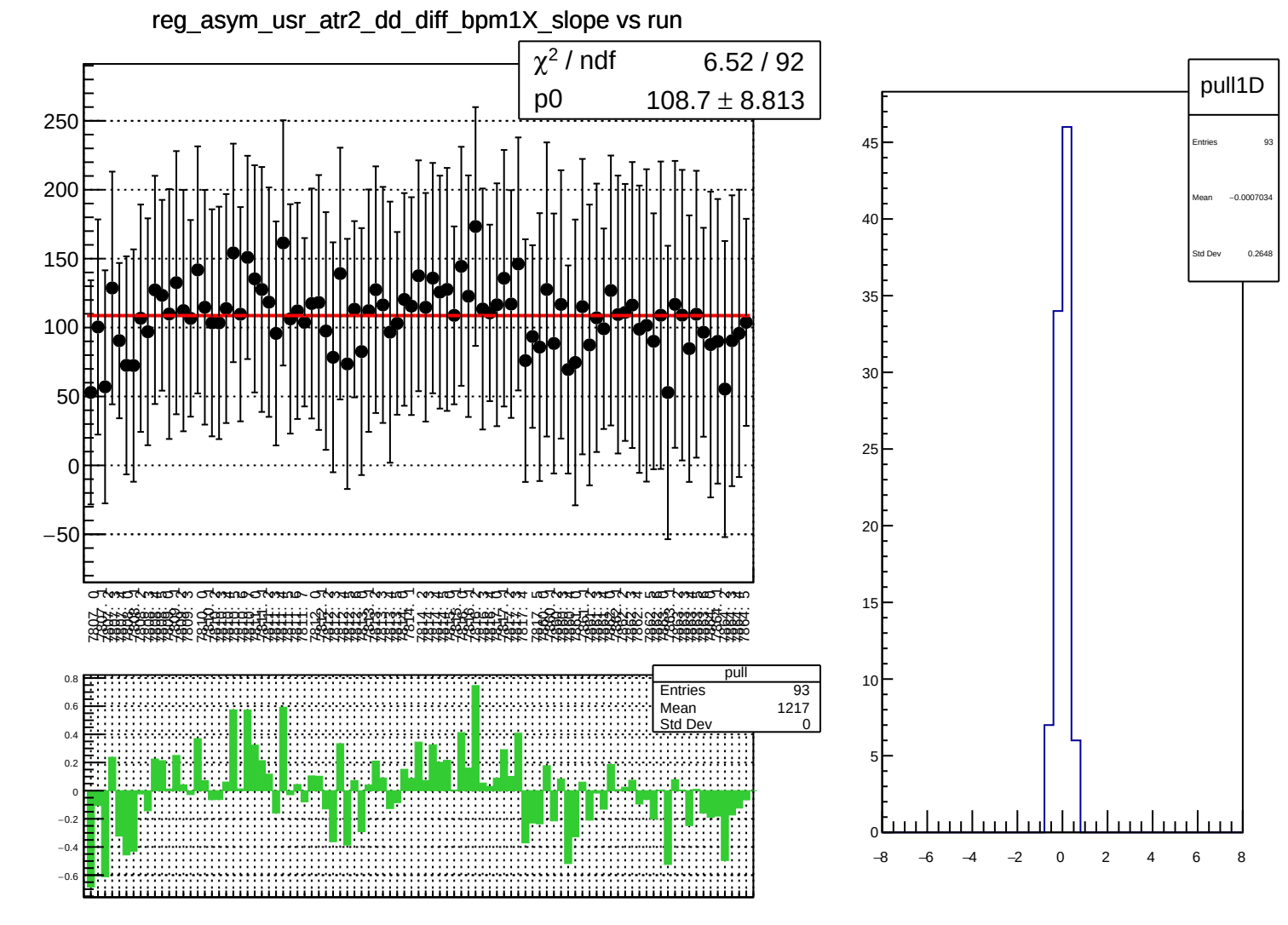

reg_asym_usr_atr2_avg_diff_bpm4eX_slope vs run
χ² / ndf 5.619 / 92
p0 210.3 ± 12.02
400
300
200
100
0
pull
Entries 93
Mean 800.5
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 93
Mean −0.001236
Std Dev 0.2458
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

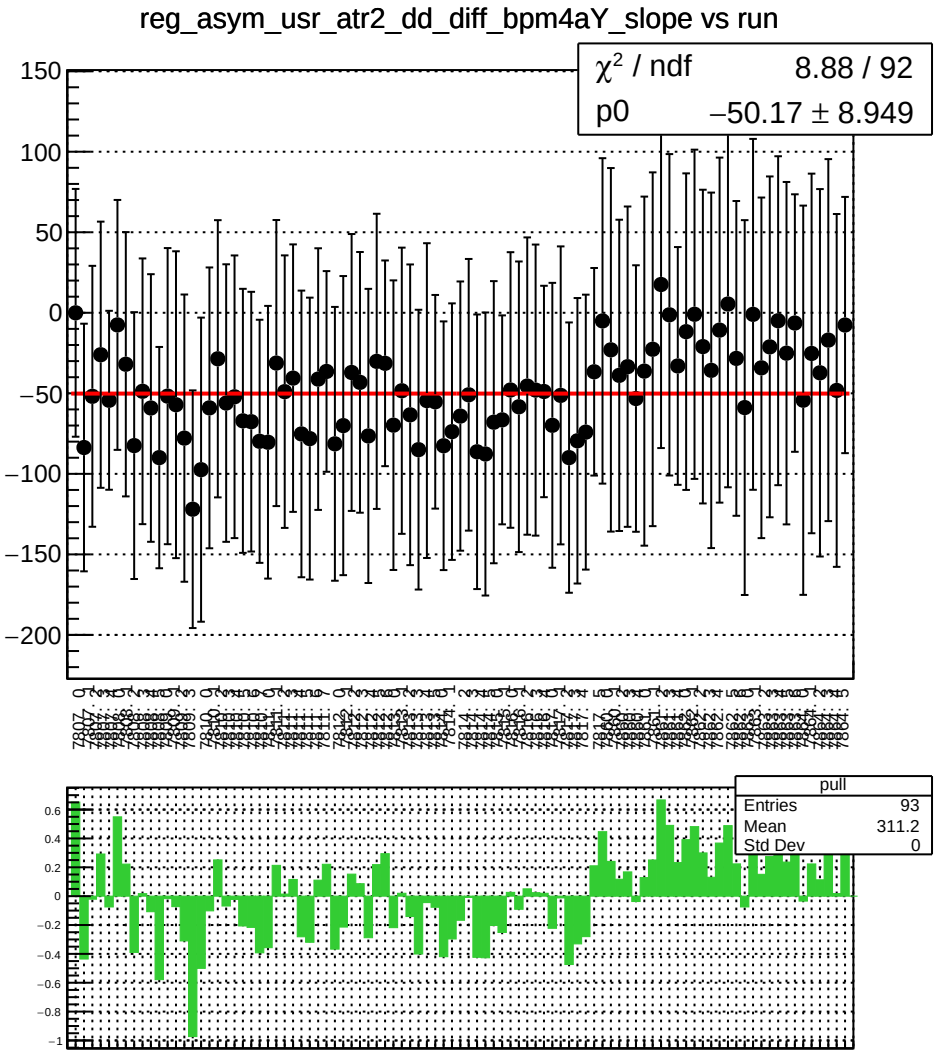

reg_asym_usr_atr2_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.869 / 92
p0 −9.16 ± 15.35
300
200
100
0
−100
−200
−300
pull
Entries 93
Mean 347.2
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

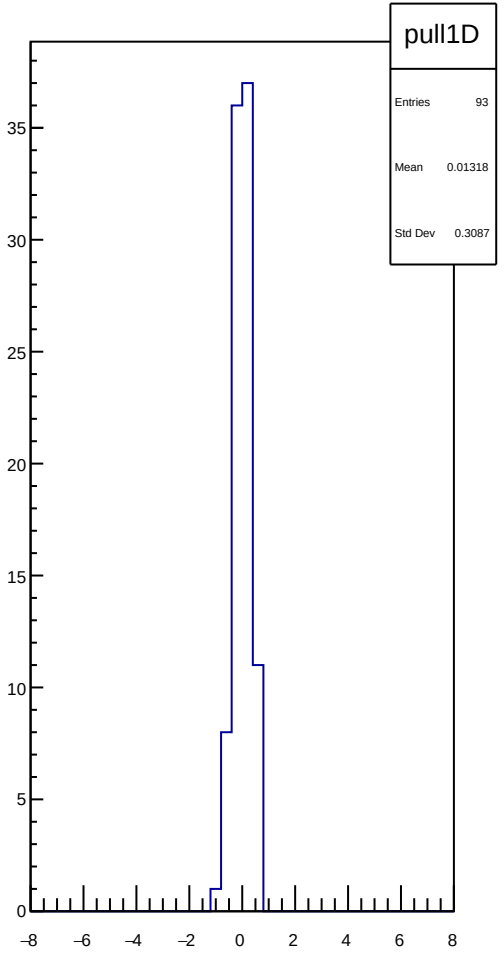

pull1D
Entries 93
Mean 0.004095
Std Dev 0.2288
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

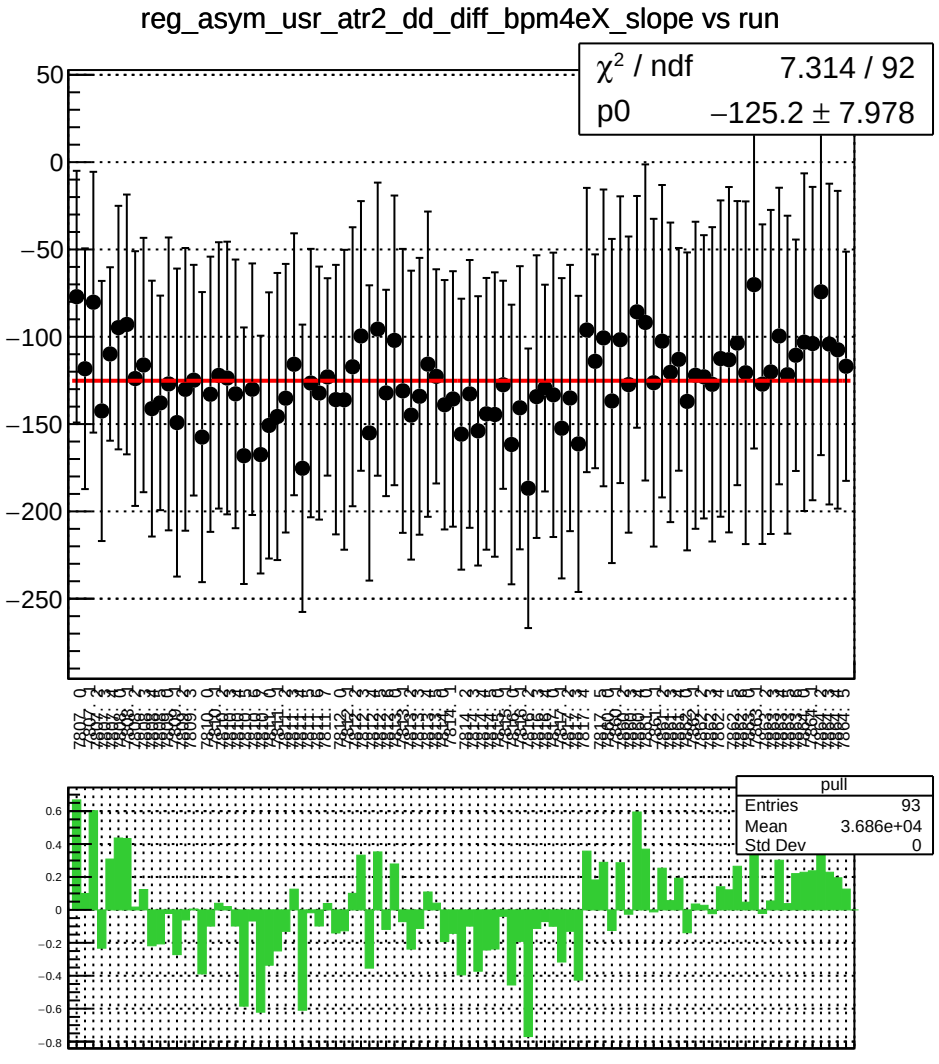

reg_asym_usr_atr2_avg_diff_bpm12X_slope vs run
χ² / ndf 16.29 / 92
p0 −168.8 ± 0.4457
pull
Entries 93
Mean 122.9
Std Dev 11.79

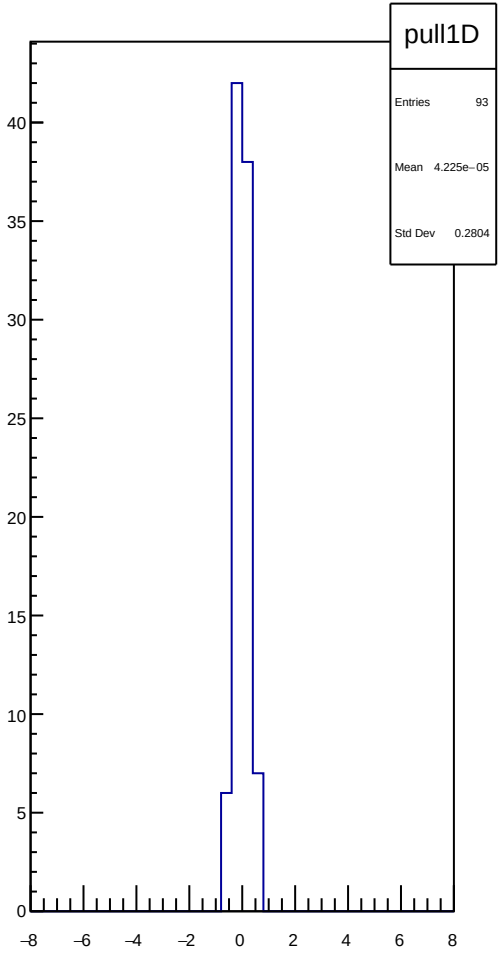

pull1D
Entries 93
Mean 0.02668
Std Dev 0.4177

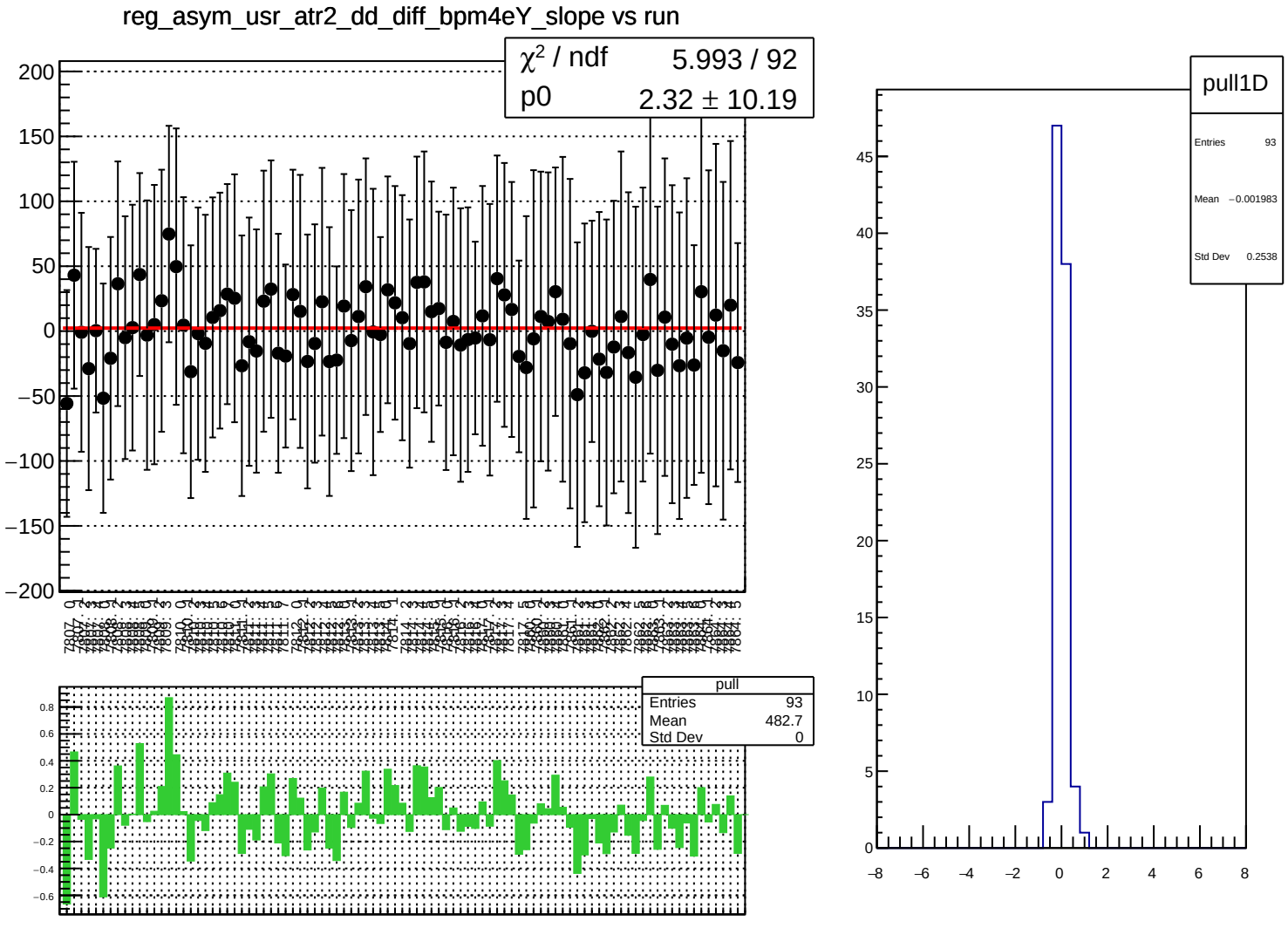

reg_asym_usr_atr2_dd_diff_bpm1X_slope vs run
χ² / ndf 6.52 / 92
p0 108.7 ± 8.813
pull
Entries 93
Mean 1217
Std Dev 0
pull1D
Entries 93
Mean −0.0007034
Std Dev 0.2648

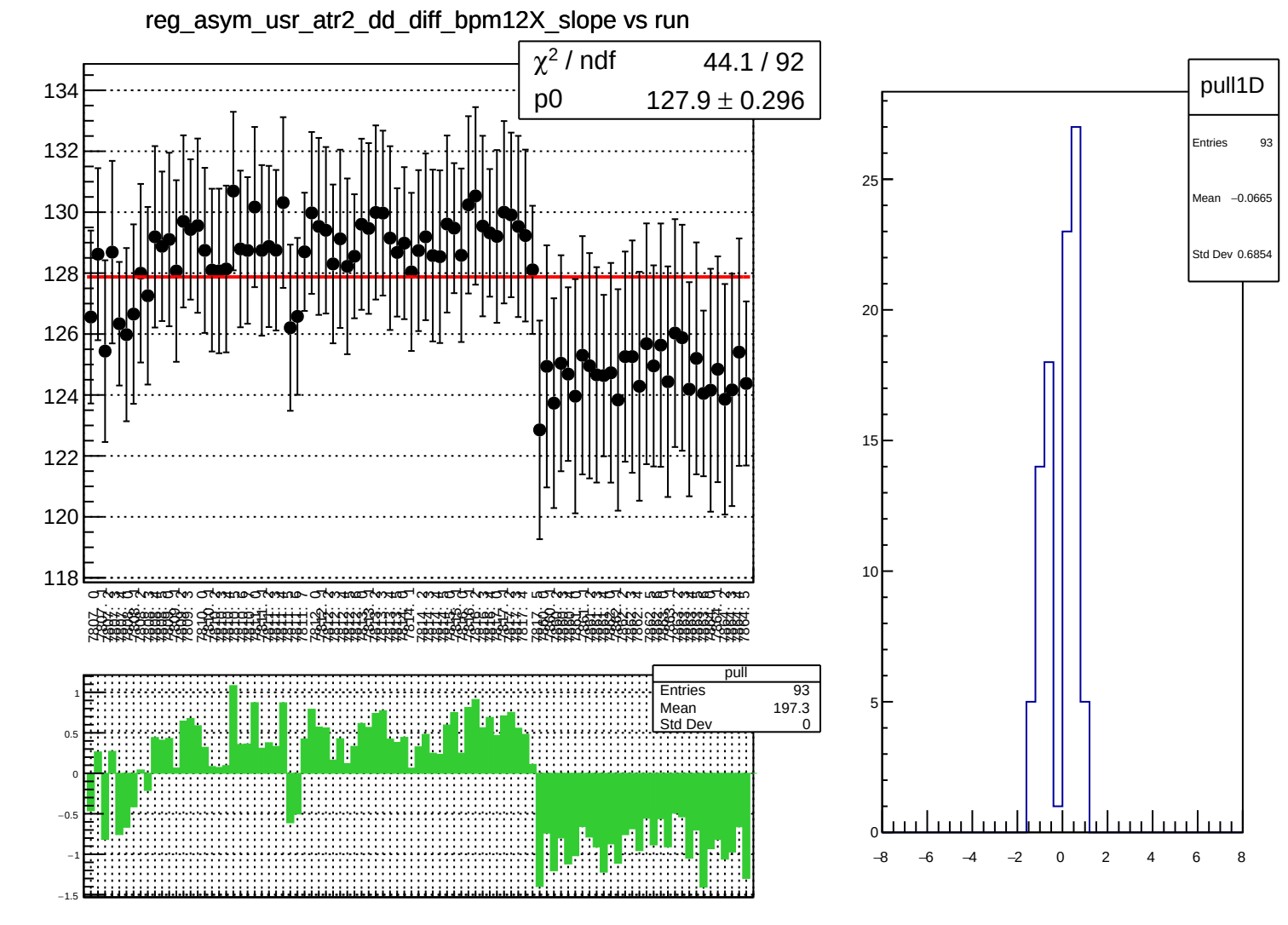

reg_asym_usr_atr2_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.88 / 92
p0 −50.17 ± 8.949
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean 311.2
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

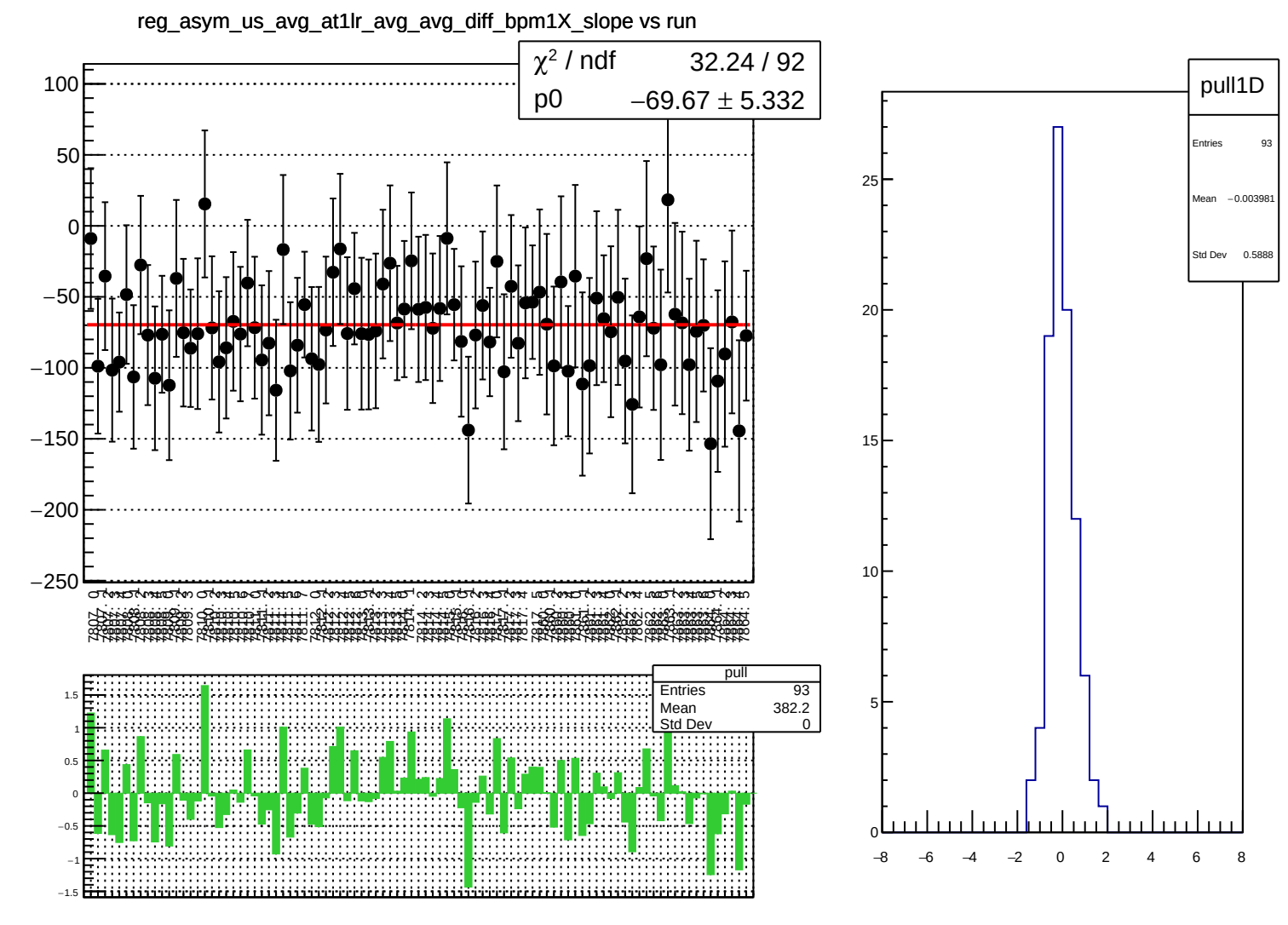

pull1D
Entries 93
Mean 0.01318
Std Dev 0.3087
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

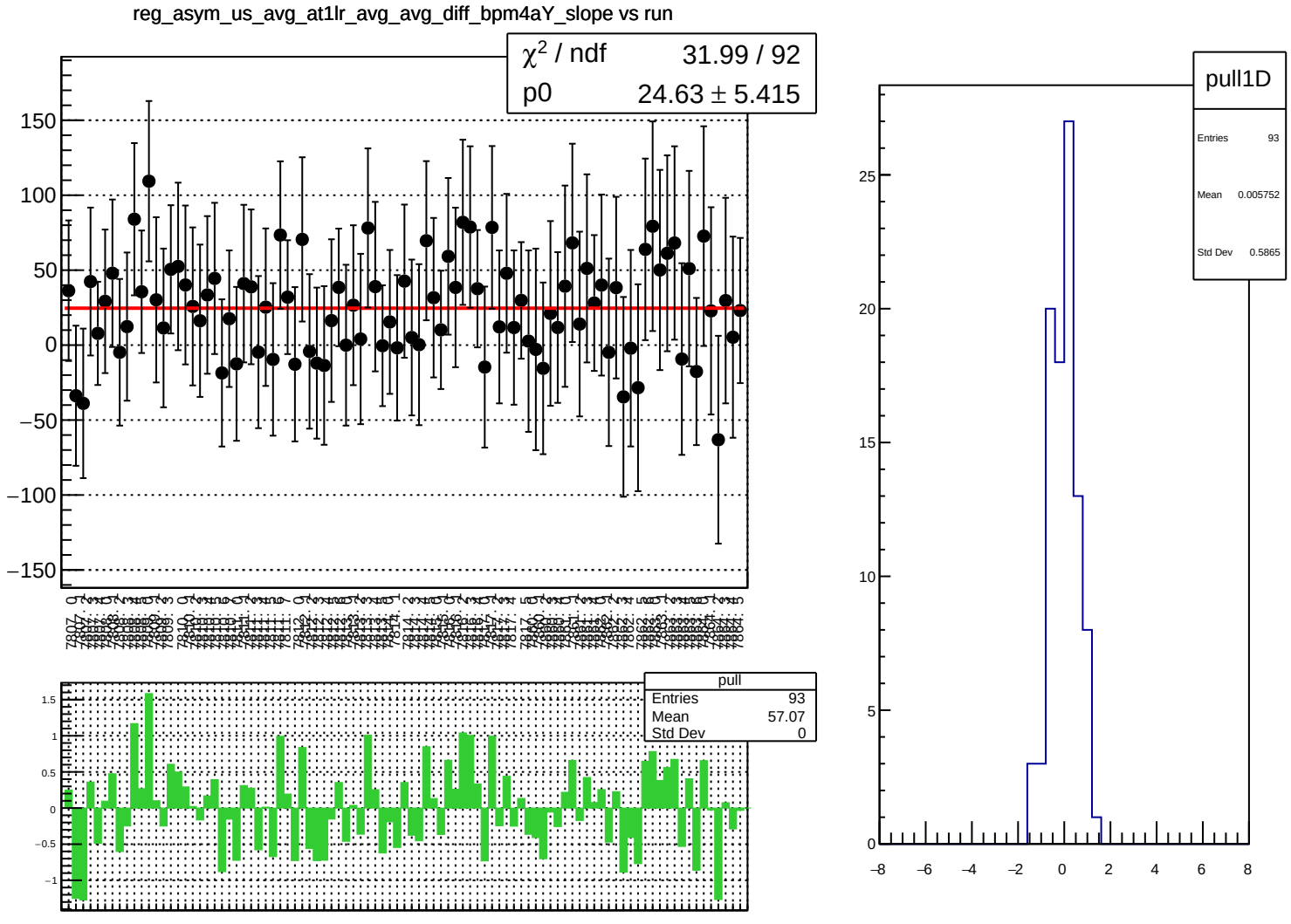

reg_asym_usr_atr2_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.314 / 92
p0 −125.2 ± 7.978
pull
Entries 93
Mean 3.686e+04
Std Dev 0

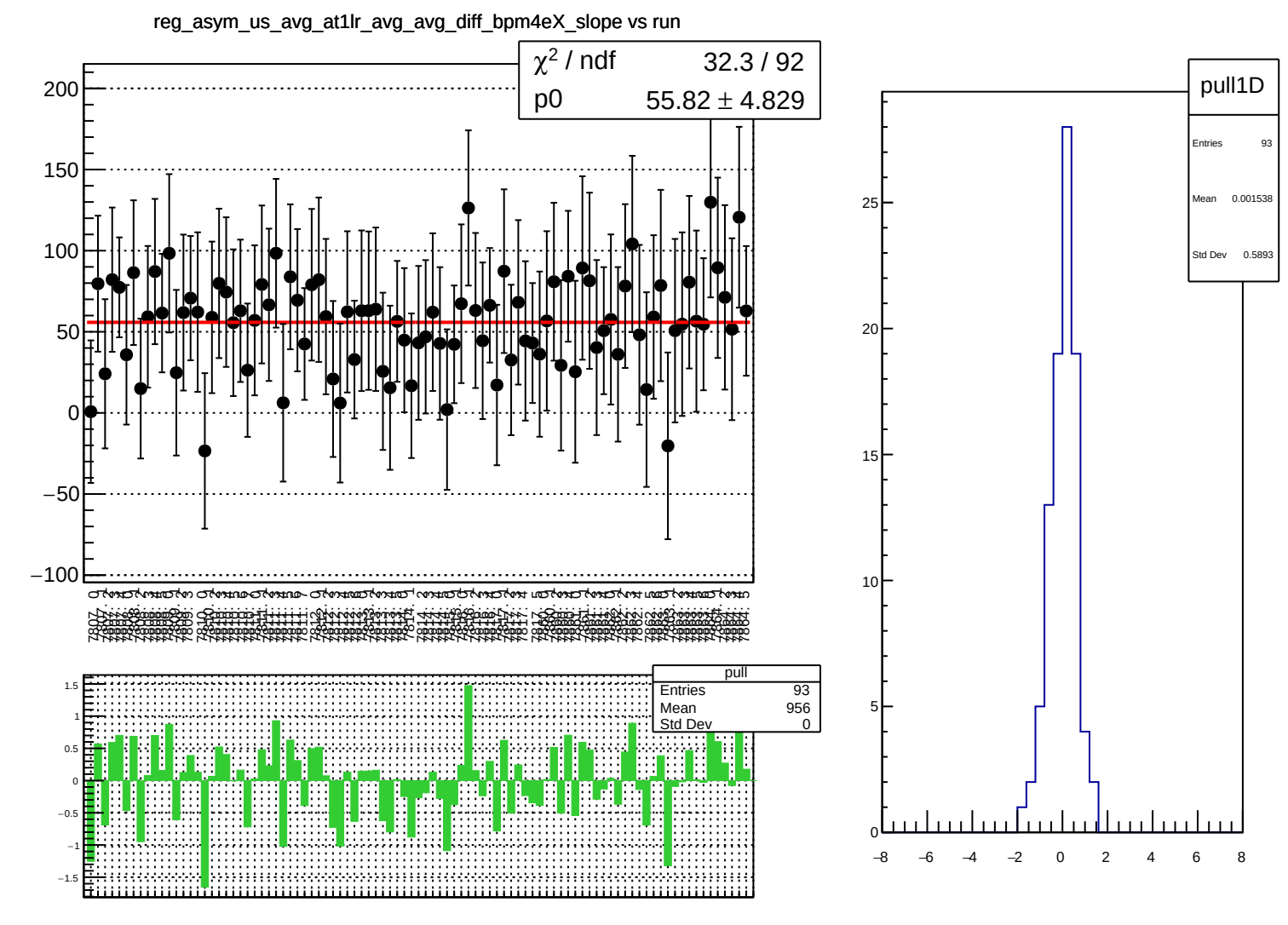

pull1D
Entries 93
Mean 4.225e−05
Std Dev 0.2804

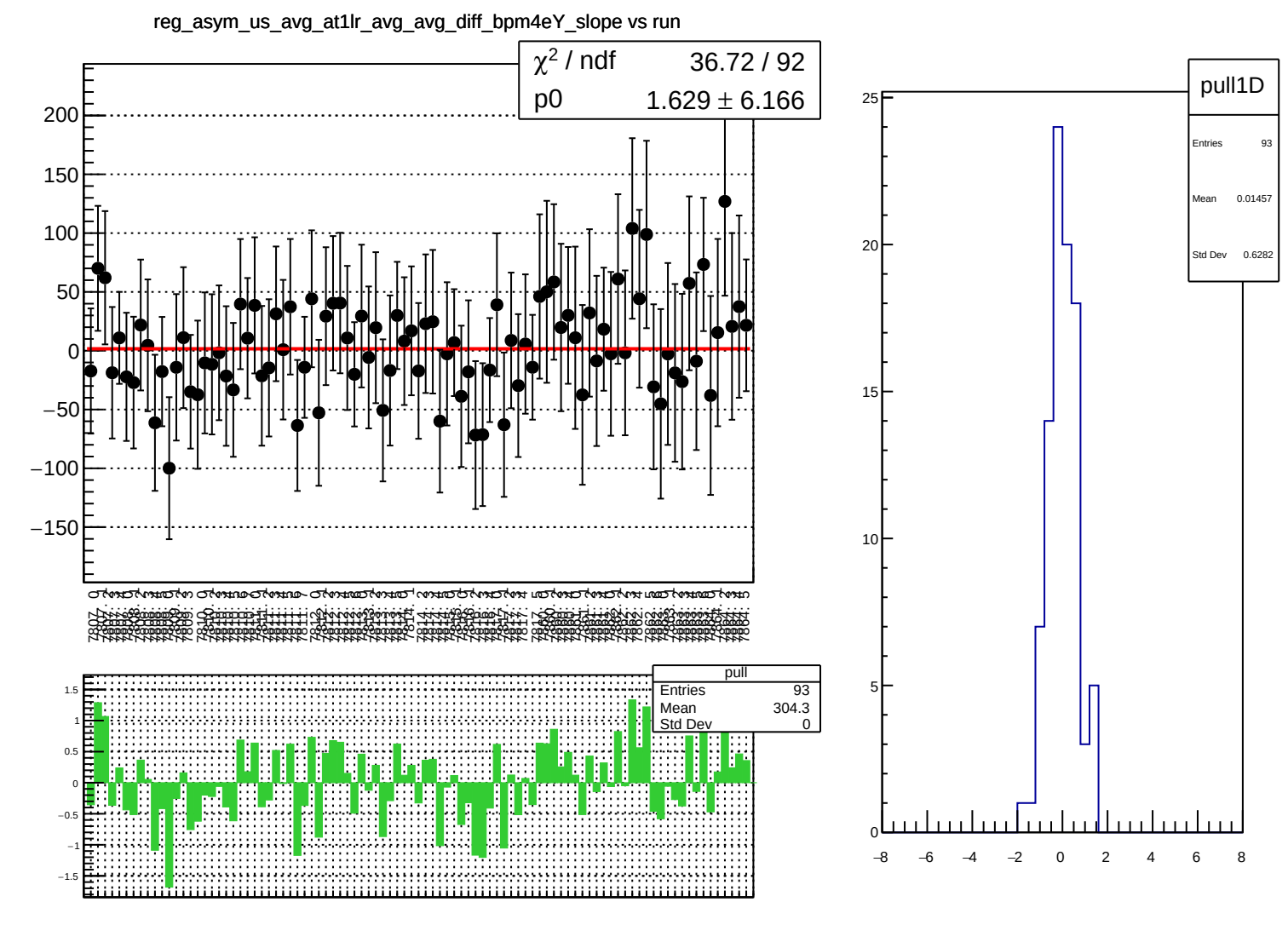

reg_asym_usr_atr2_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.993 / 92
p0 2.32 ± 10.19
pull
Entries 93
Mean 482.7
Std Dev 0
pull1D
Entries 93
Mean −0.001983
Std Dev 0.2538

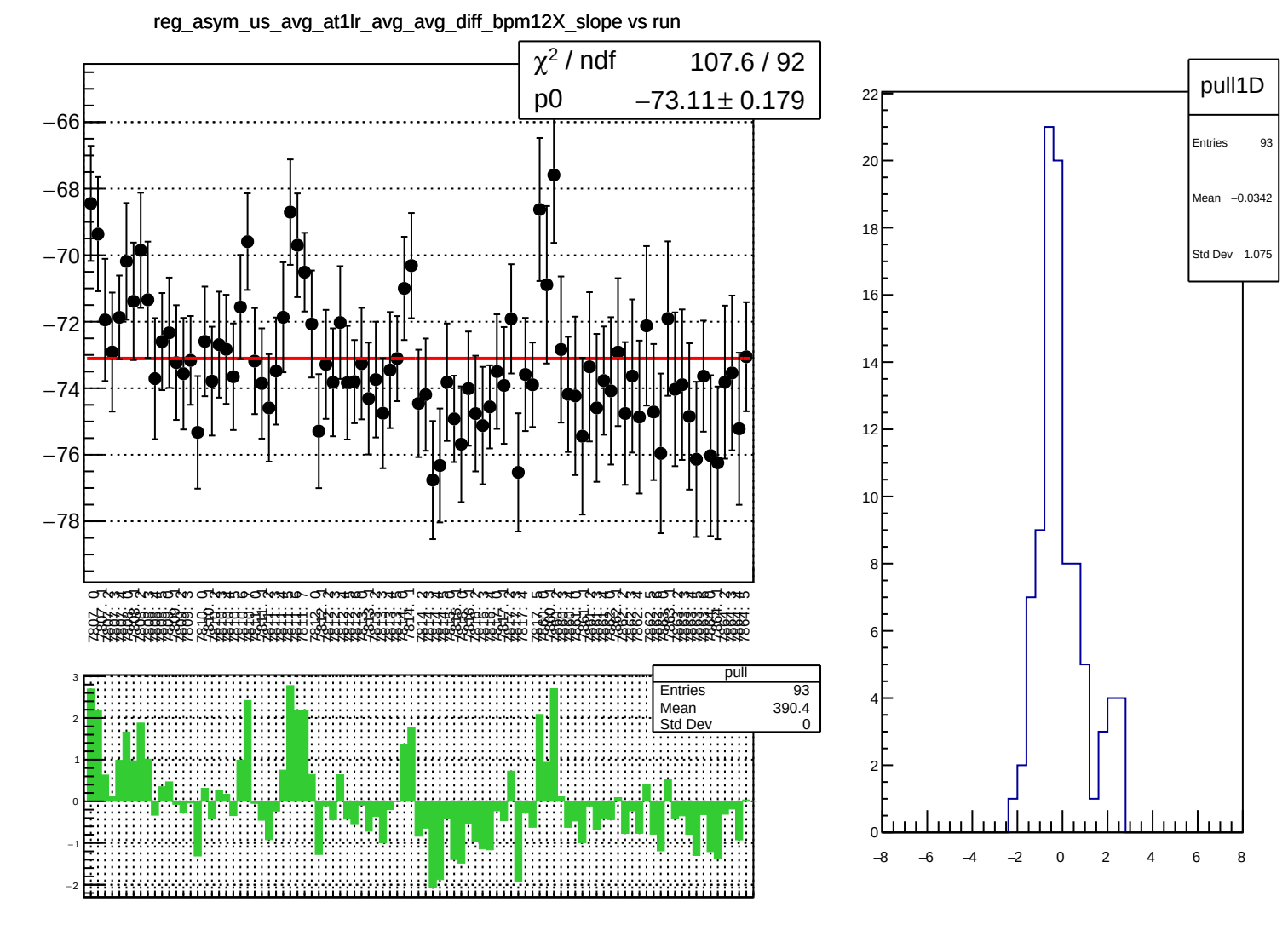

reg_asym_usr_atr2_dd_diff_bpm12X_slope vs run
χ² / ndf 44.1 / 92
p0 127.9 ± 0.296
pull
Entries 93
Mean 197.3
Std Dev 0
pull1D
Entries 93
Mean −0.0665
Std Dev 0.6854

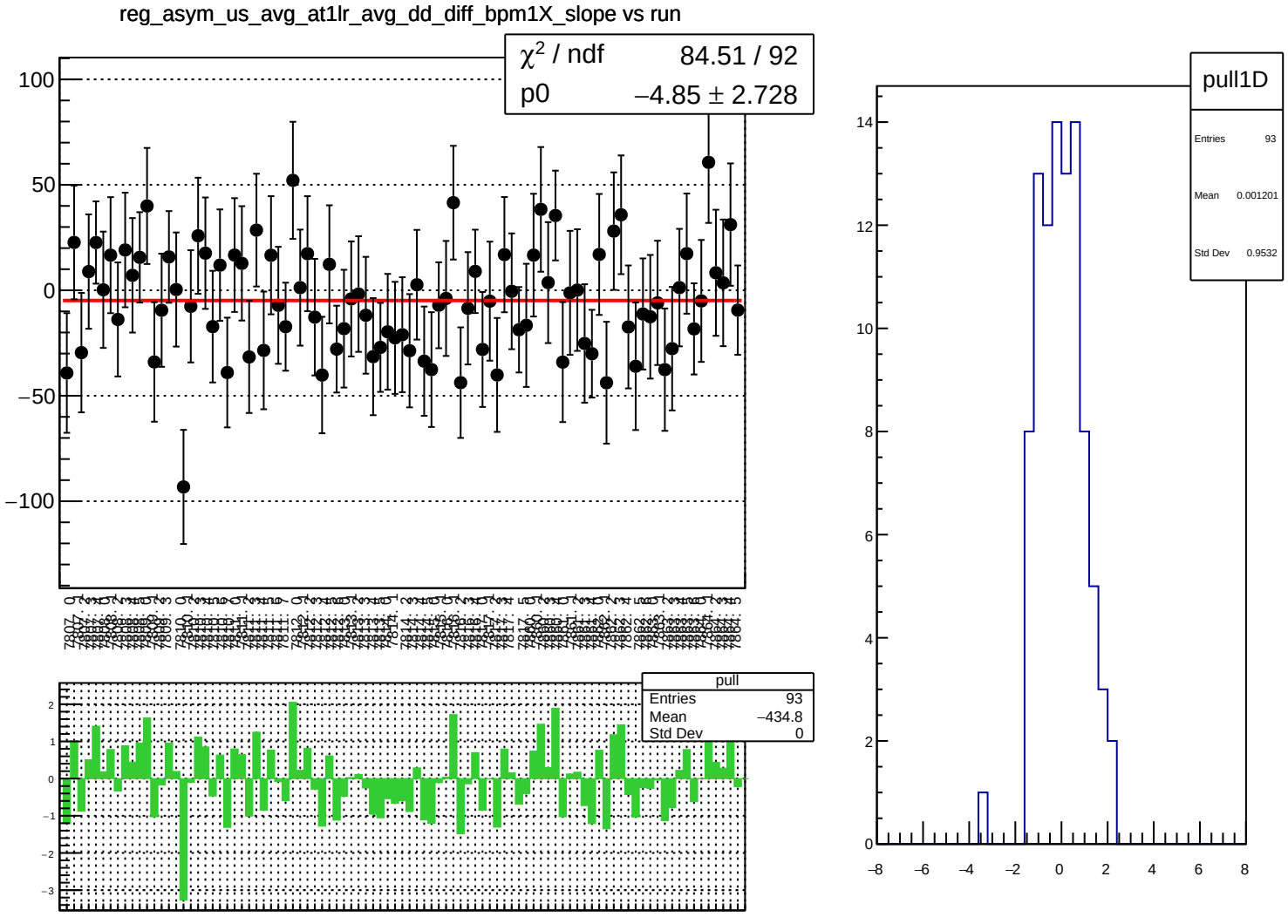

reg_asym_us_avg_at1lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 32.24 / 92
p0 −69.67 ± 5.332
pull
Entries 93
Mean 382.2
Std Dev 0
pull1D
Entries 93
Mean −0.003981
Std Dev 0.5888

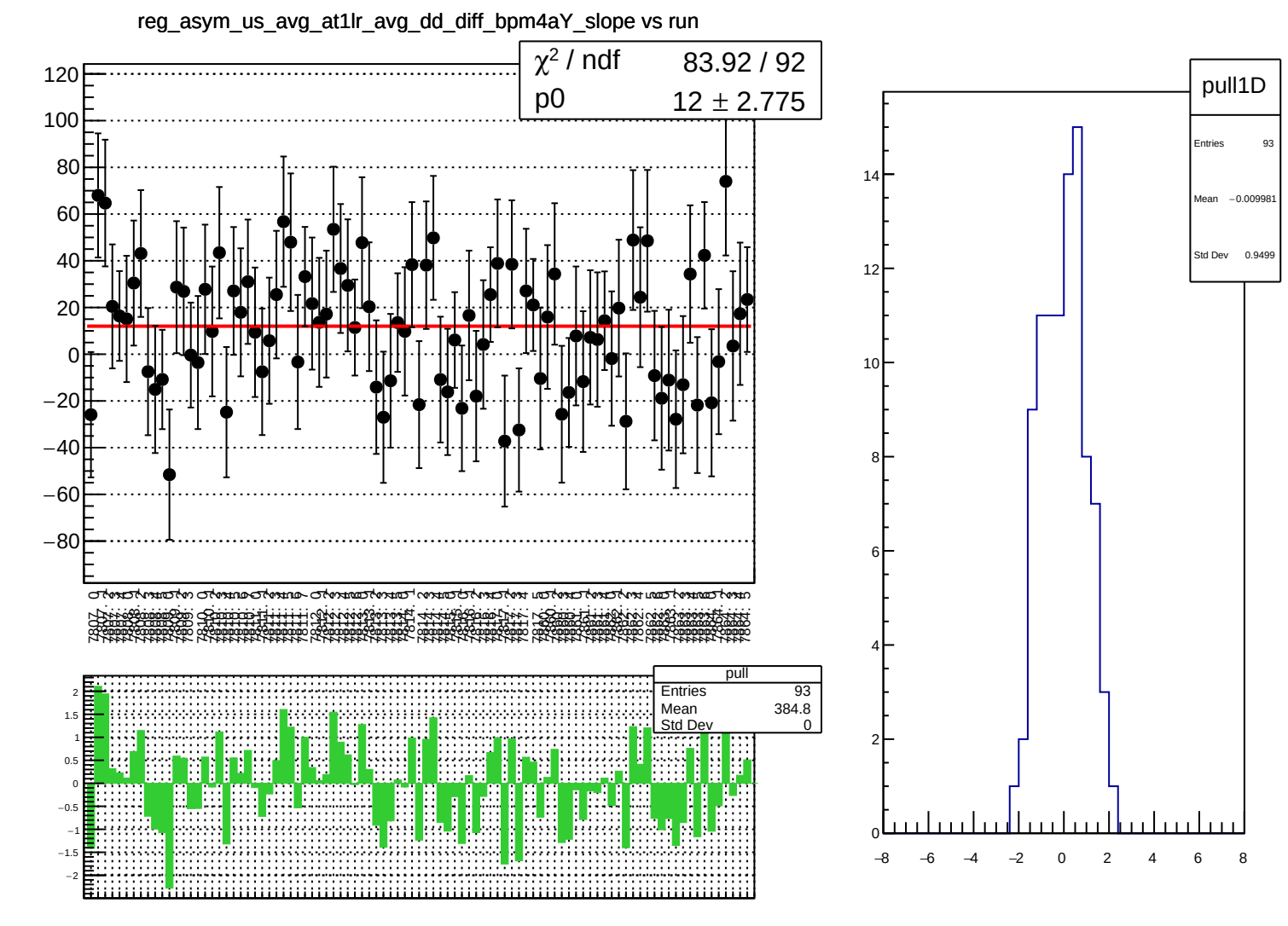

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 31.99 / 92
p0 24.63 ± 5.415
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean 57.07
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 93
Mean 0.005752
Std Dev 0.5865
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

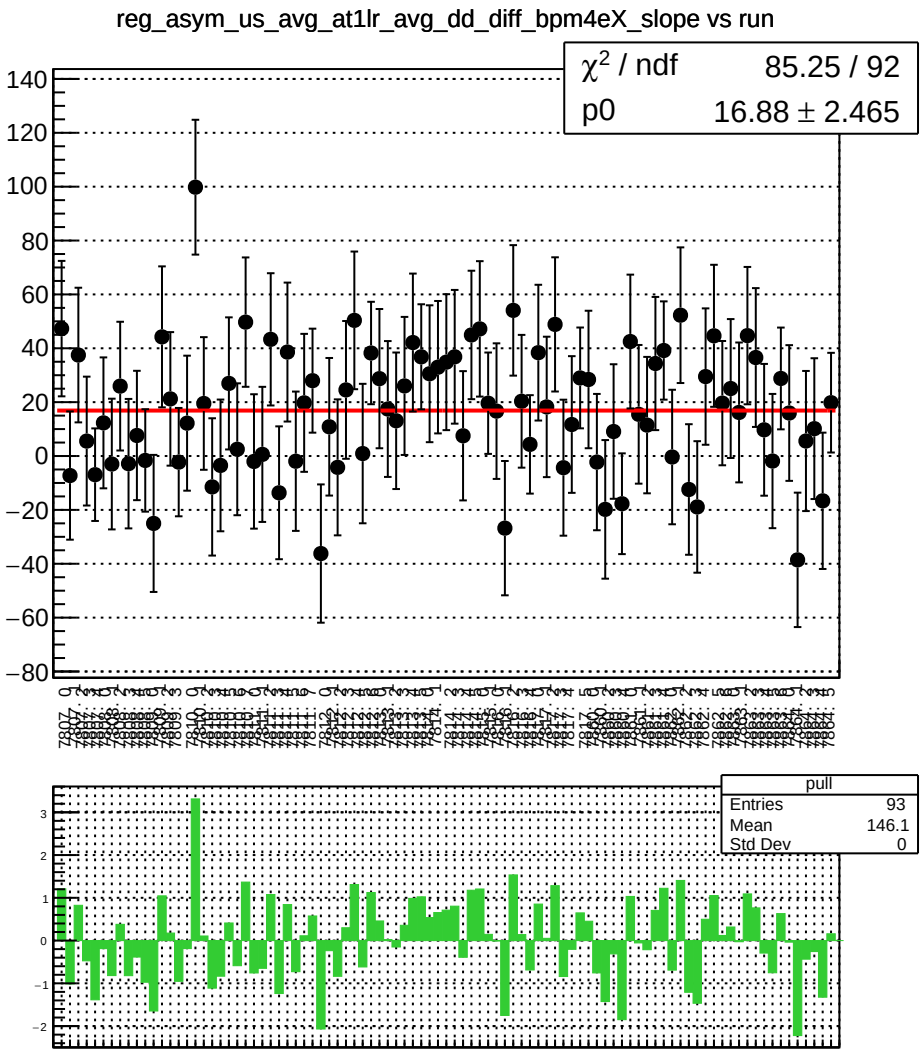

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 32.3 / 92
p0 55.82 ± 4.829
pull
Entries 93
Mean 956
Std Dev 0
pull1D
Entries 93
Mean 0.001538
Std Dev 0.5893

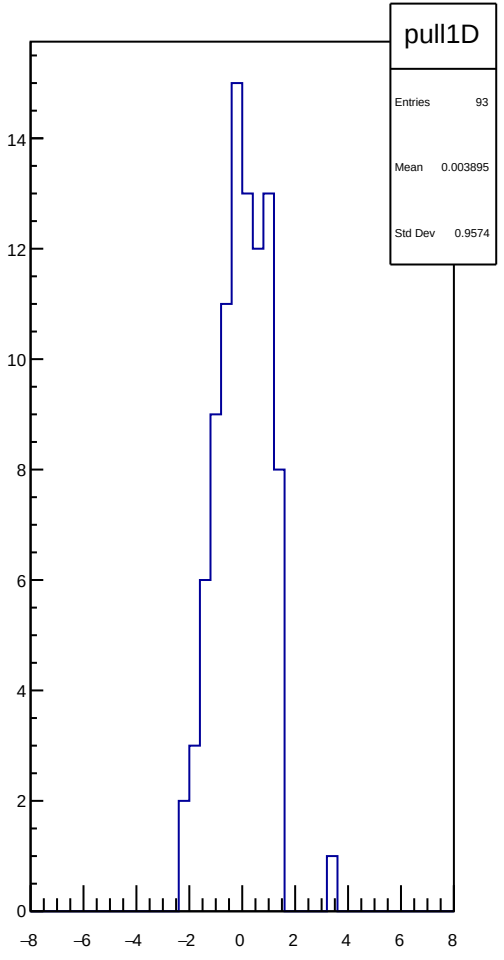

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 36.72 / 92
p0 1.629 ± 6.166
pull
Entries 93
Mean 304.3
Std Dev 0
pull1D
Entries 93
Mean 0.01457
Std Dev 0.6282

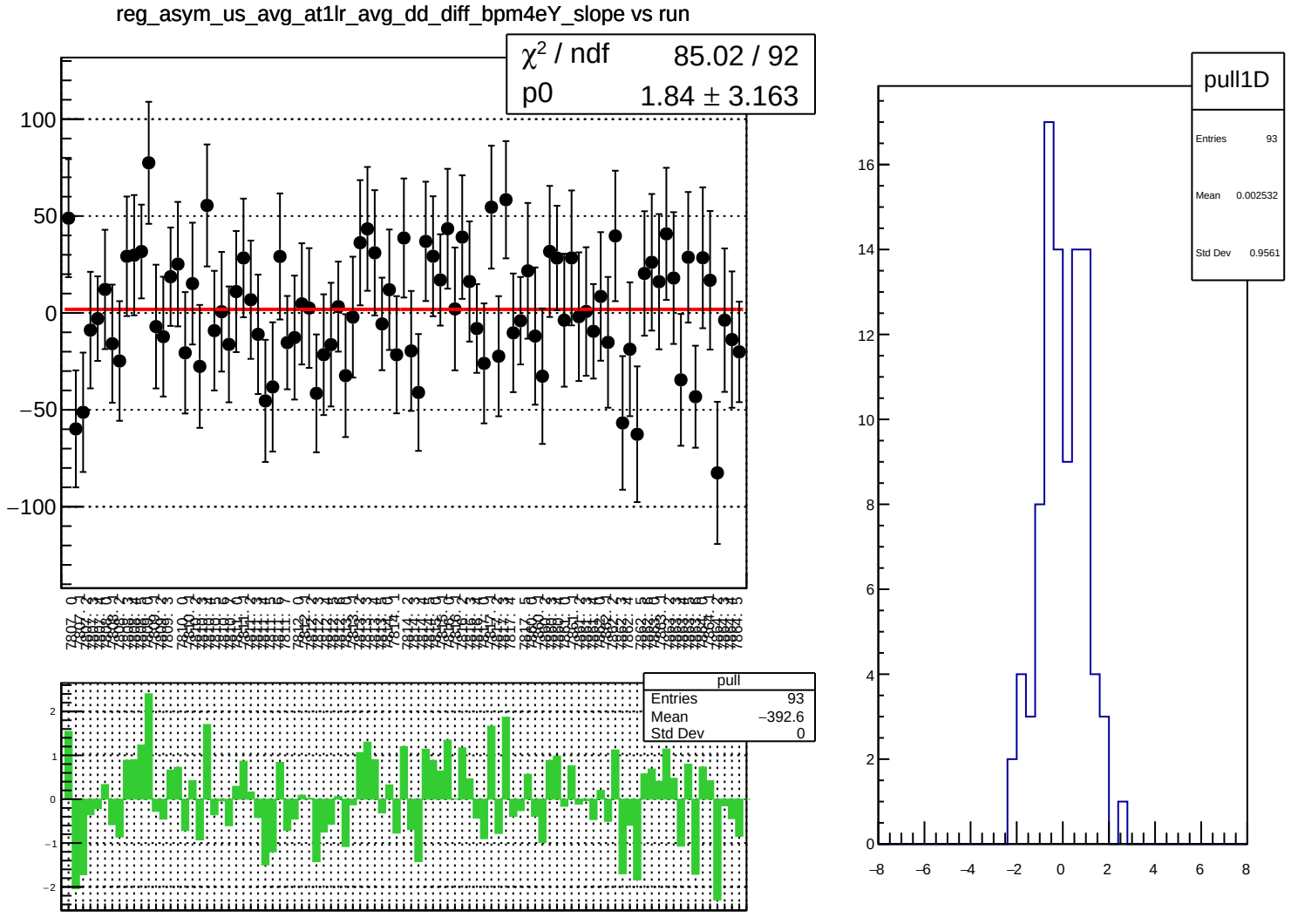

reg_asym_us_avg_at1lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 107.6 / 92
p0 −73.11 ± 0.179
pull
Entries 93
Mean 390.4
Std Dev 0
pull1D
Entries 93
Mean −0.0342
Std Dev 1.075

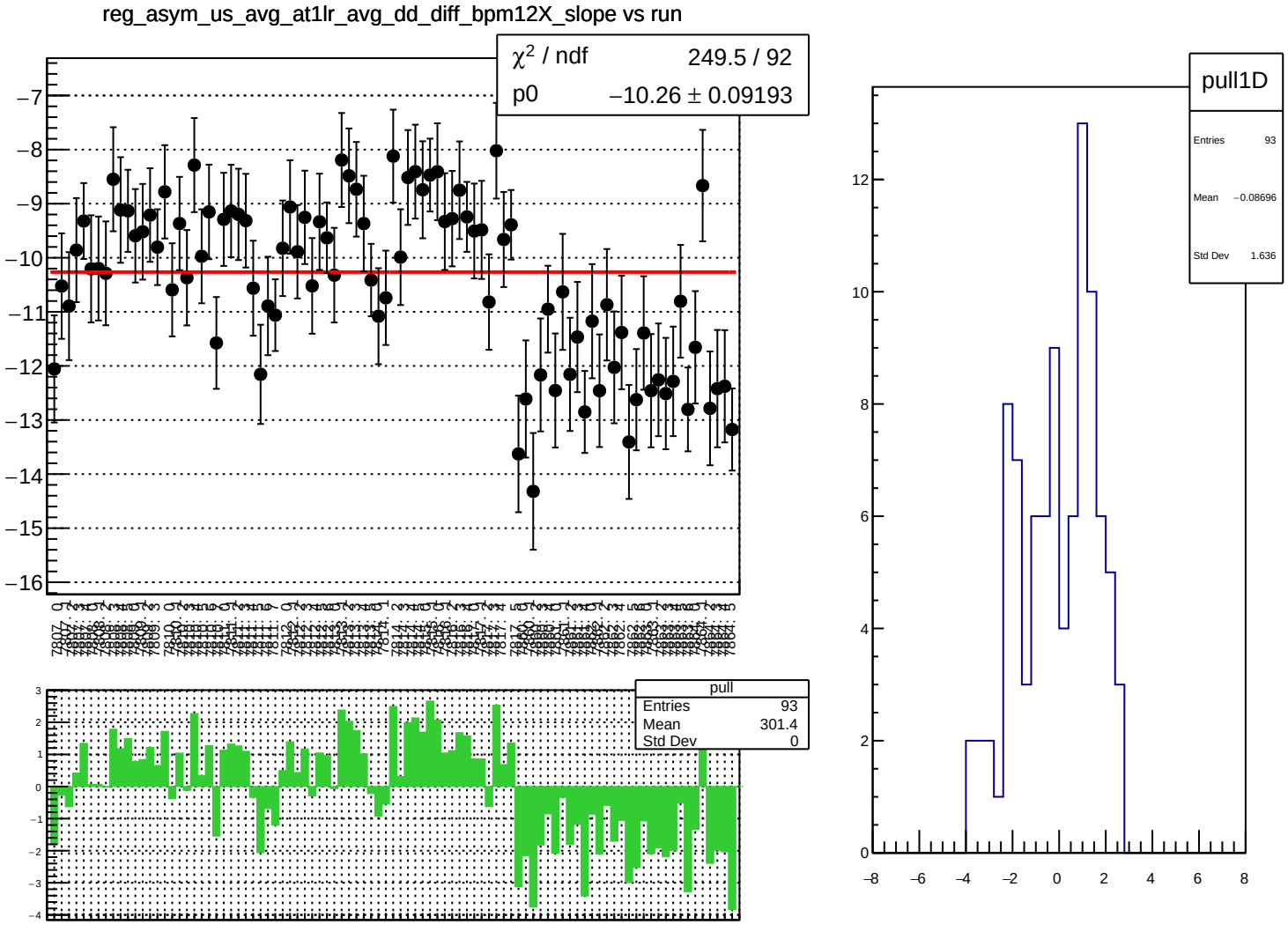

reg_asym_us_avg_at1lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 84.51 / 92
p0 −4.85 ± 2.728
100
50
0
−50
−100
pull
Entries 93
Mean −434.8
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.001201
Std Dev 0.9532
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

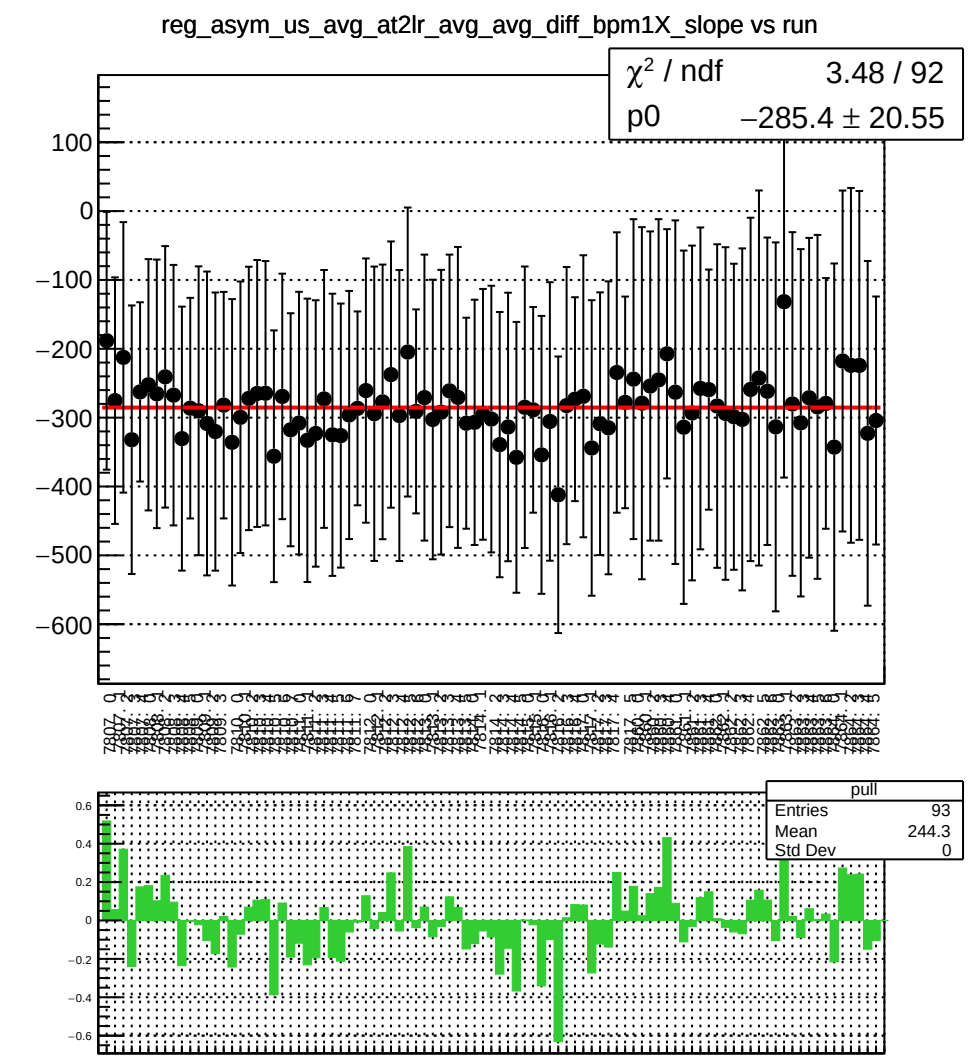

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 83.92 / 92
p0 12 ± 2.775
pull
Entries 93
Mean 384.8
Std Dev 0
pull1D
Entries 93
Mean −0.009981
Std Dev 0.9499

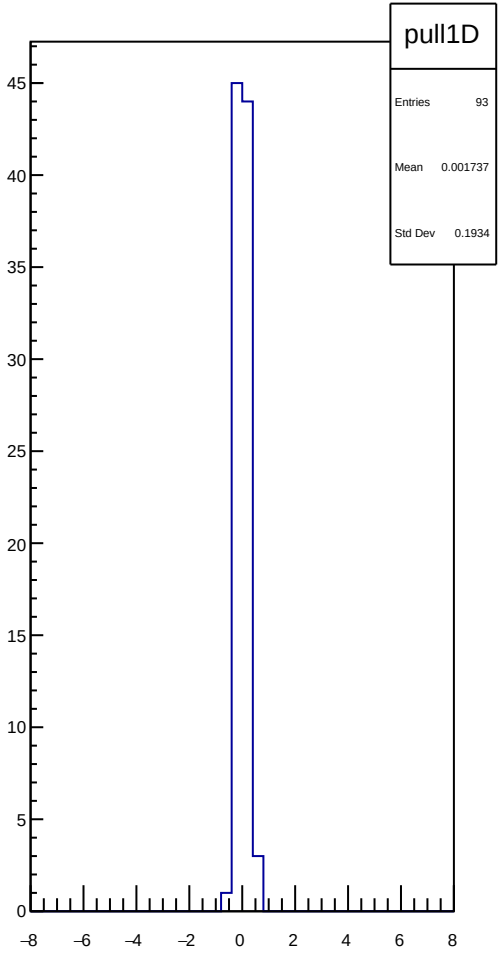

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 85.25 / 92
p0 16.88 ± 2.465
pull
Entries 93
Mean 146.1
Std Dev 0

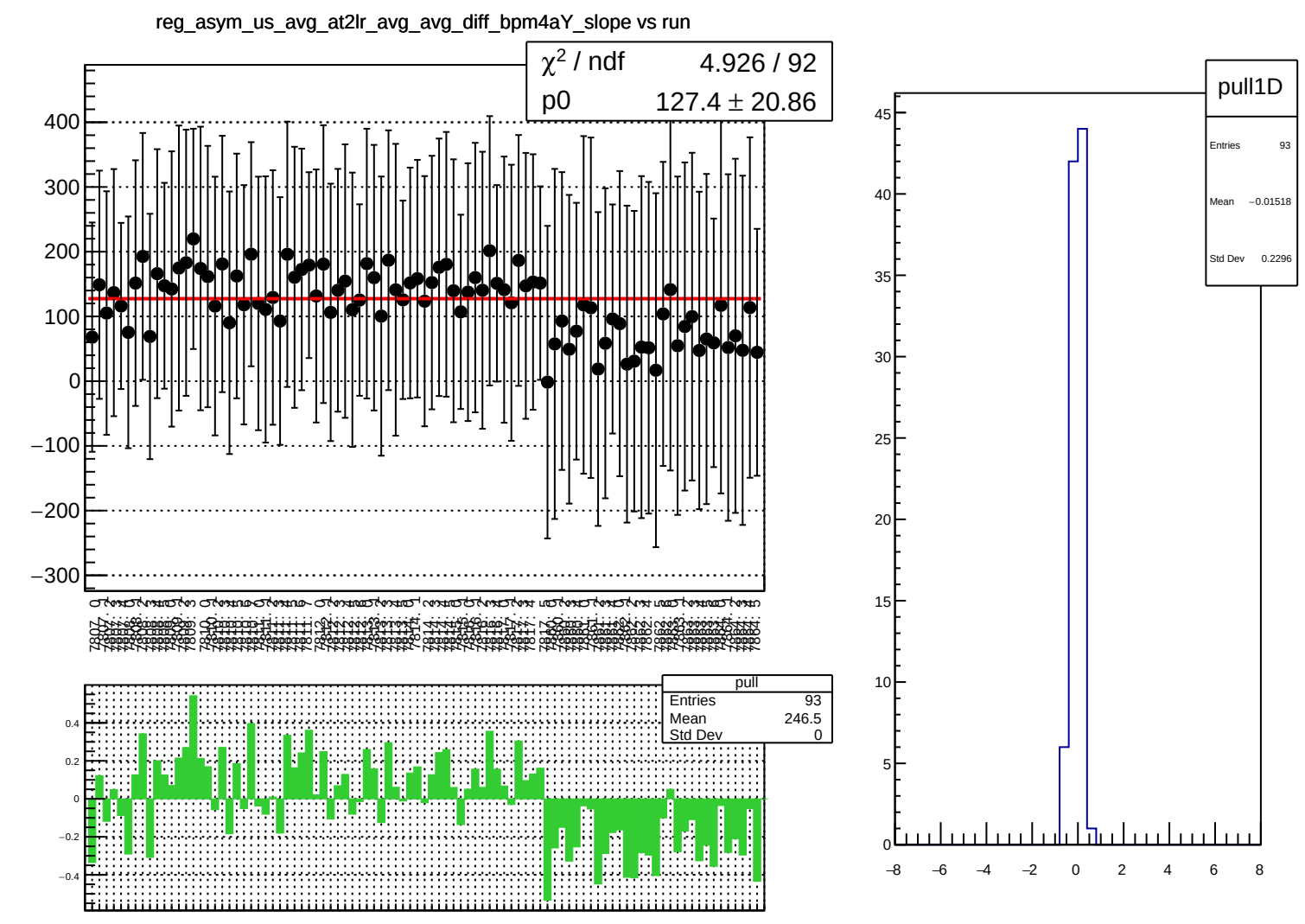

pull1D
Entries 93
Mean 0.003895
Std Dev 0.9574

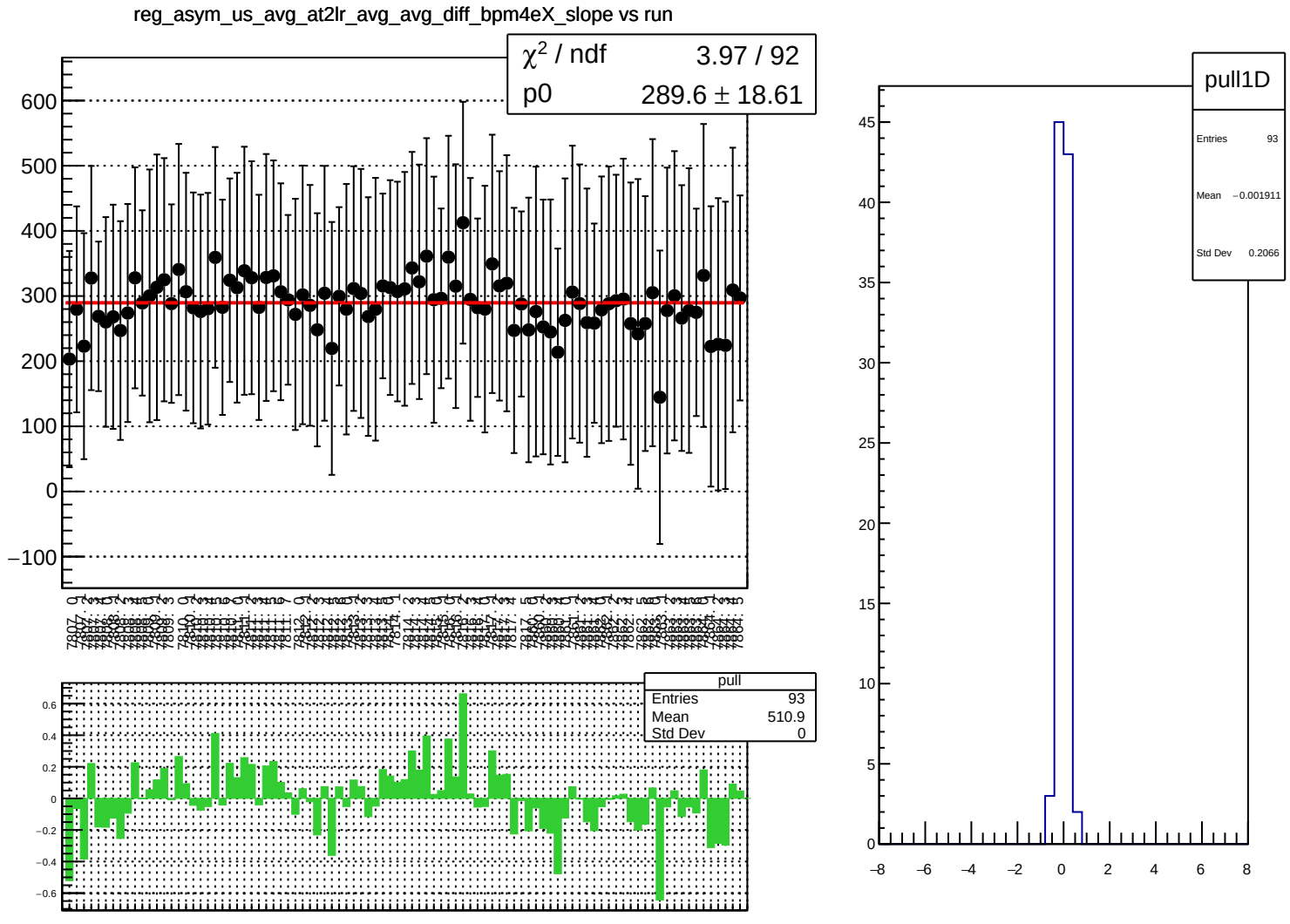

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 85.02 / 92
p0 1.84 ± 3.163
100
50
0
−50
−100
pull
Entries 93
Mean −392.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.002532
Std Dev 0.9561
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

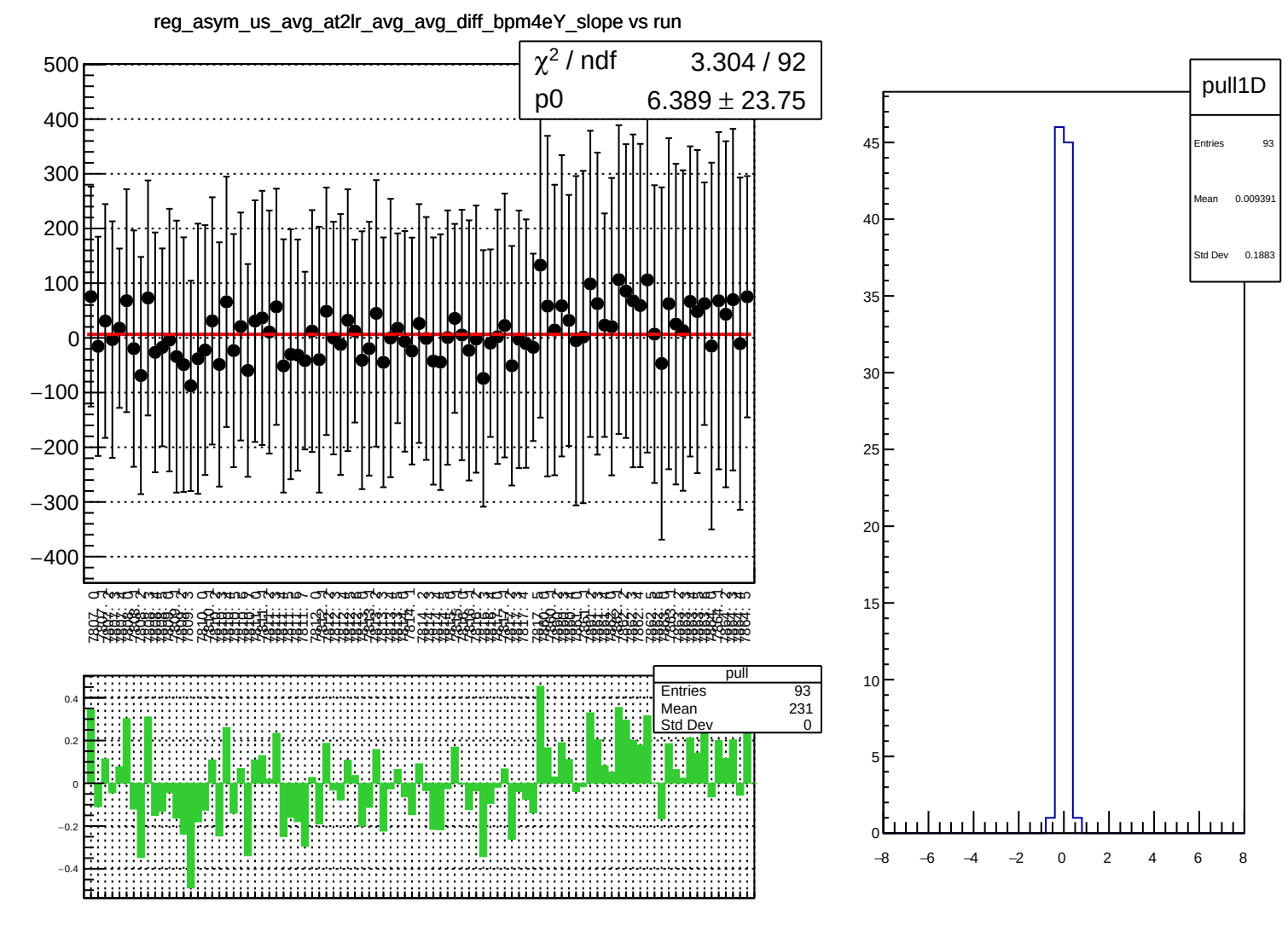

reg_asym_us_avg_at1lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 249.5 / 92
p0 −10.26 ± 0.09193
pull
Entries 93
Mean 301.4
Std Dev 0
pull1D
Entries 93
Mean −0.08696
Std Dev 1.636

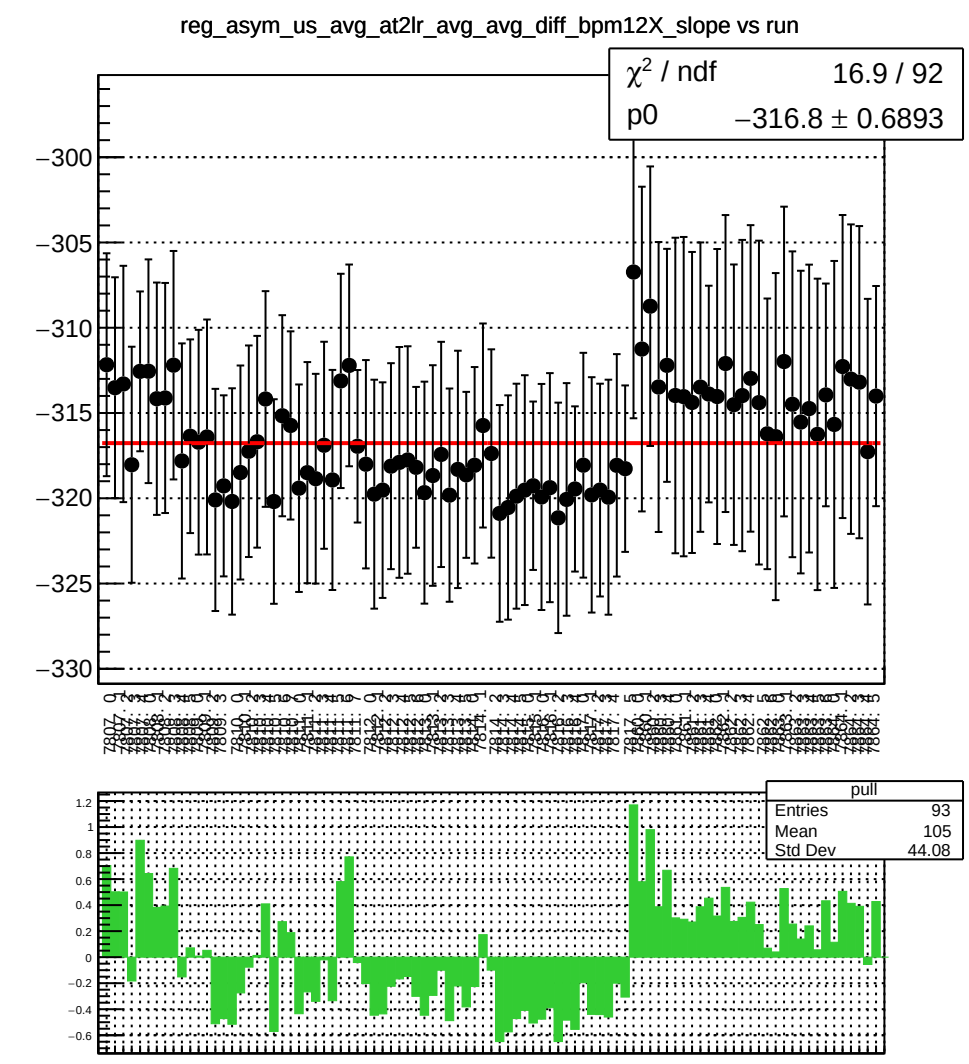

reg_asym_us_avg_at2lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 3.48 / 92
p0 −285.4 ± 20.55
pull
Entries 93
Mean 244.3
Std Dev 0

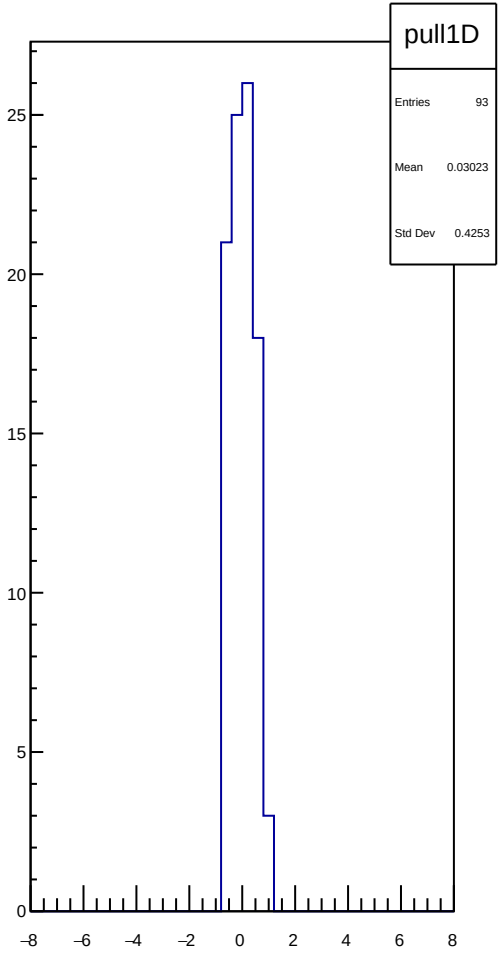

pull1D
Entries 93
Mean 0.001737
Std Dev 0.1934

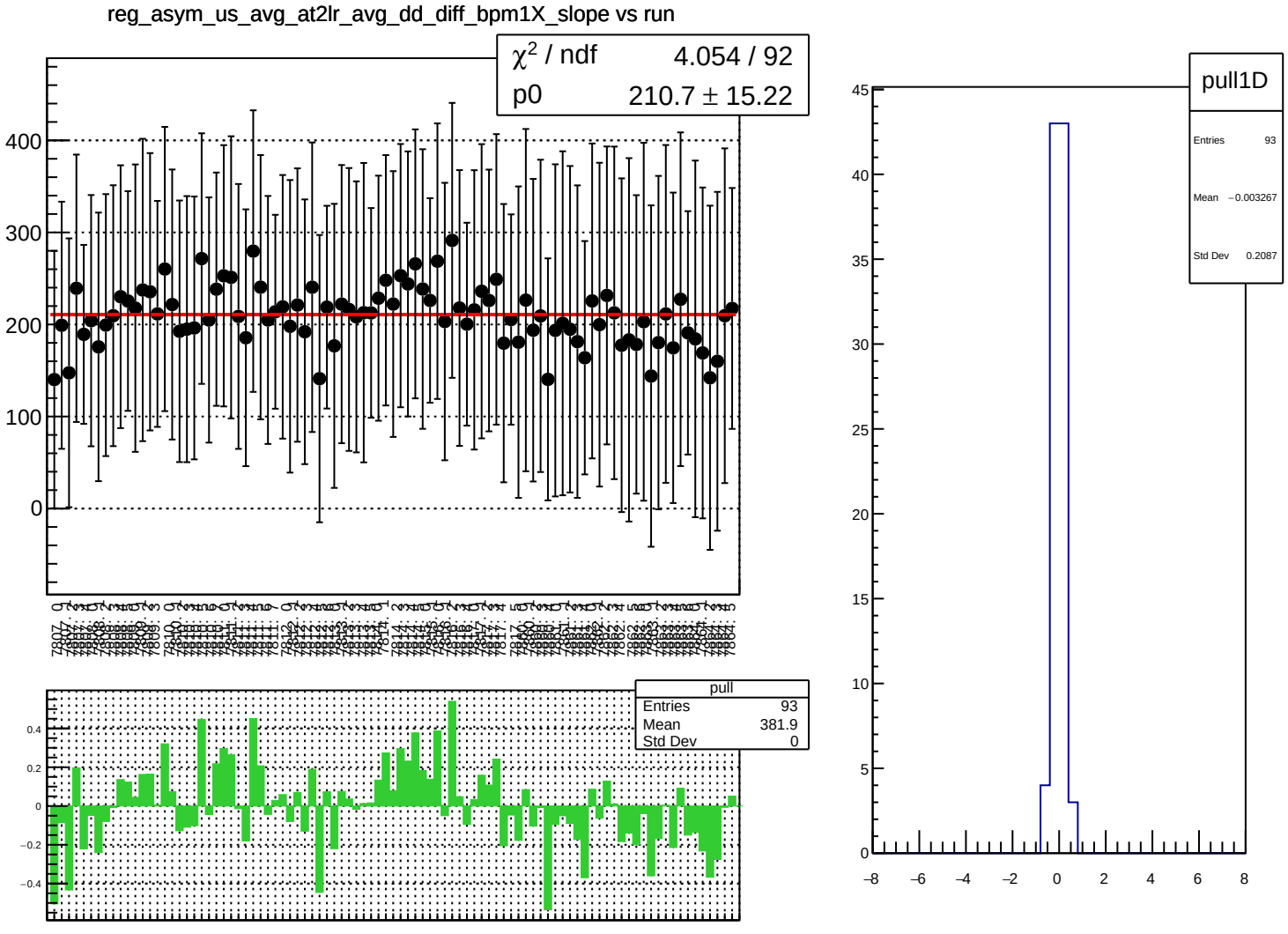

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.926 / 92
p0 127.4 ± 20.86
pull
Entries 93
Mean 246.5
Std Dev 0
pull1D
Entries 93
Mean −0.01518
Std Dev 0.2296

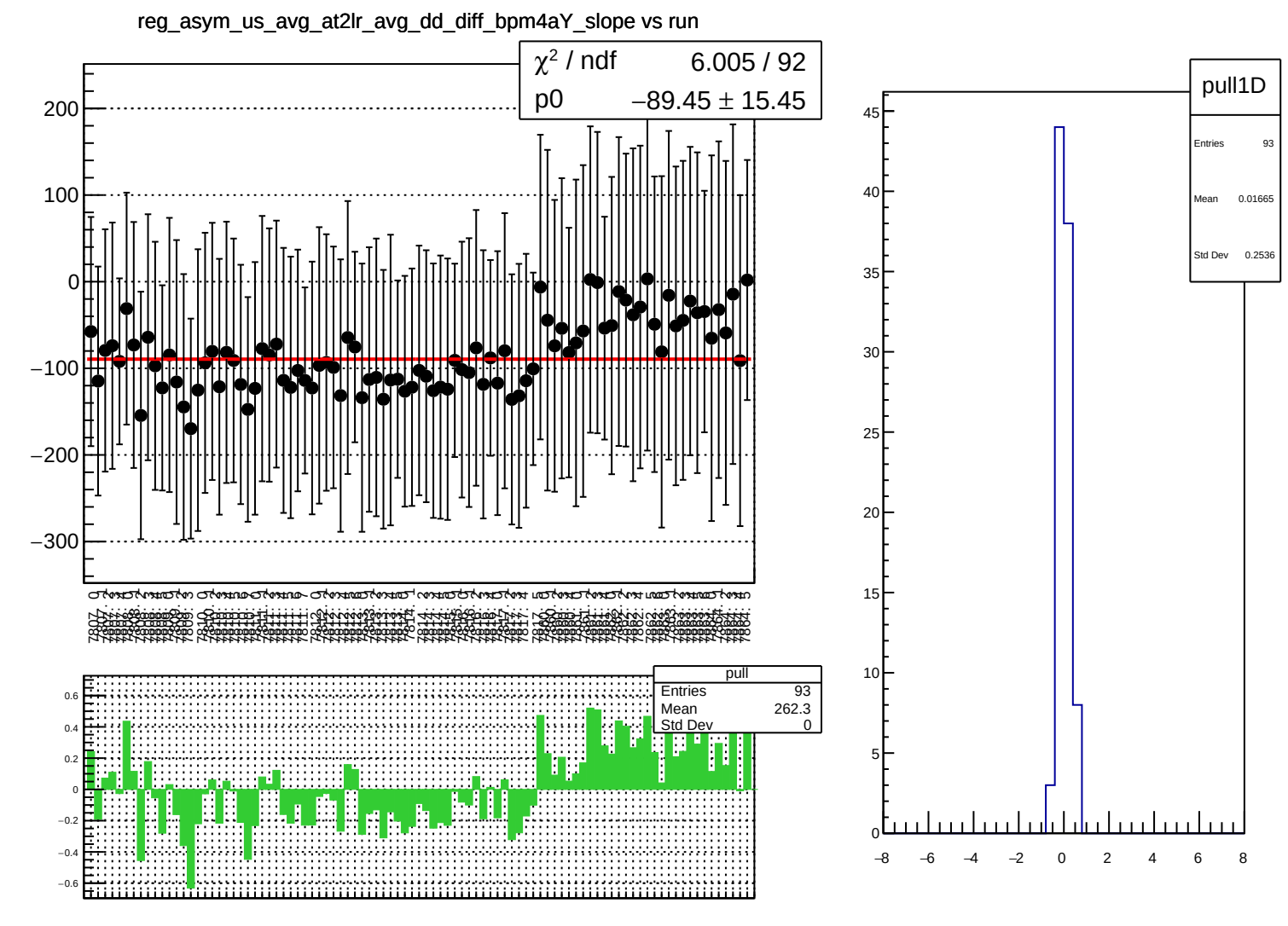

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.97 / 92
p0 289.6 ± 18.61
pull
Entries 93
Mean 510.9
Std Dev 0
pull1D
Entries 93
Mean −0.001911
Std Dev 0.2066

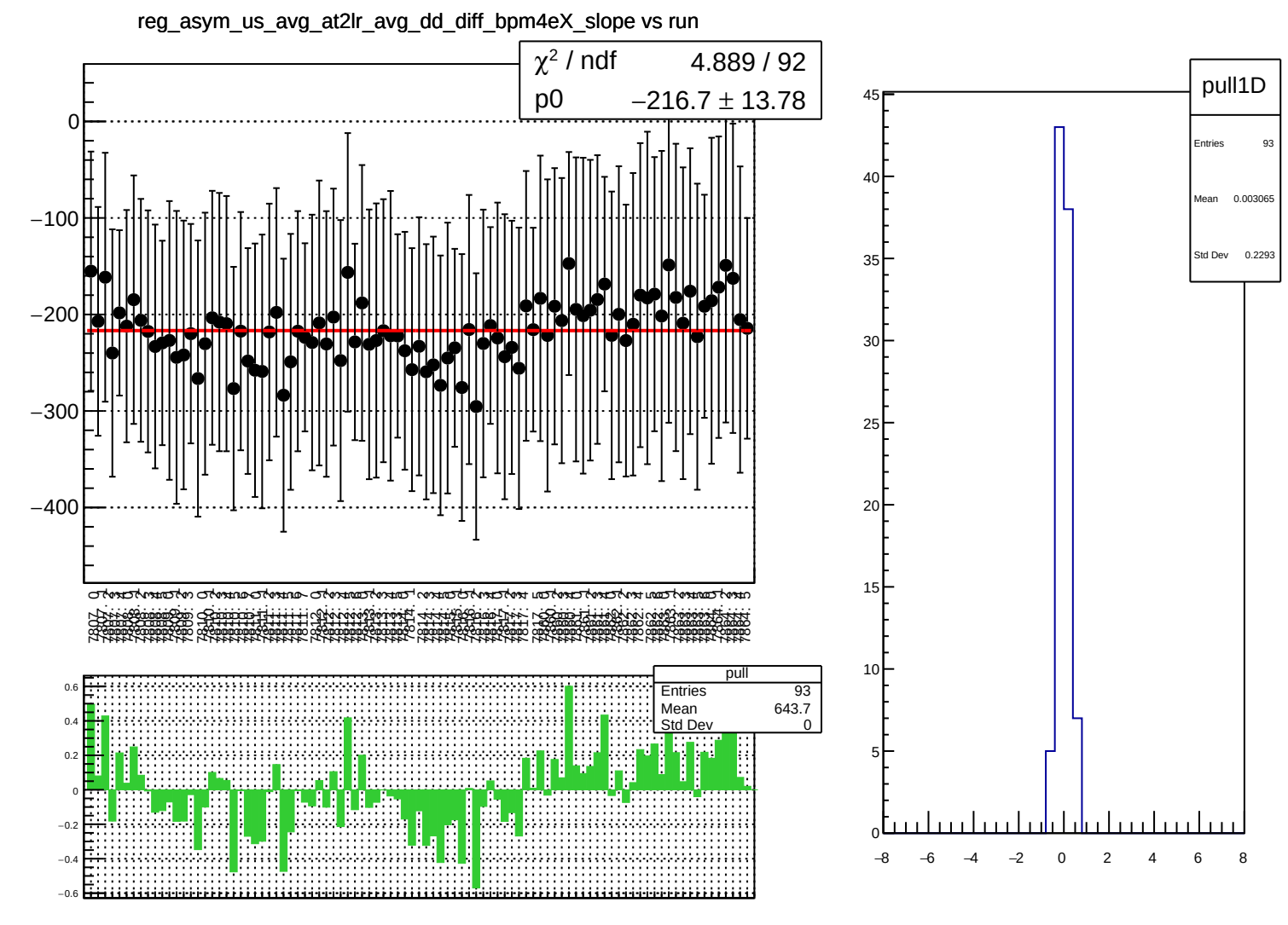

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.304 / 92
p0 6.389 ± 23.75
pull
Entries 93
Mean 231
Std Dev 0
pull1D
Entries 93
Mean 0.009391
Std Dev 0.1883

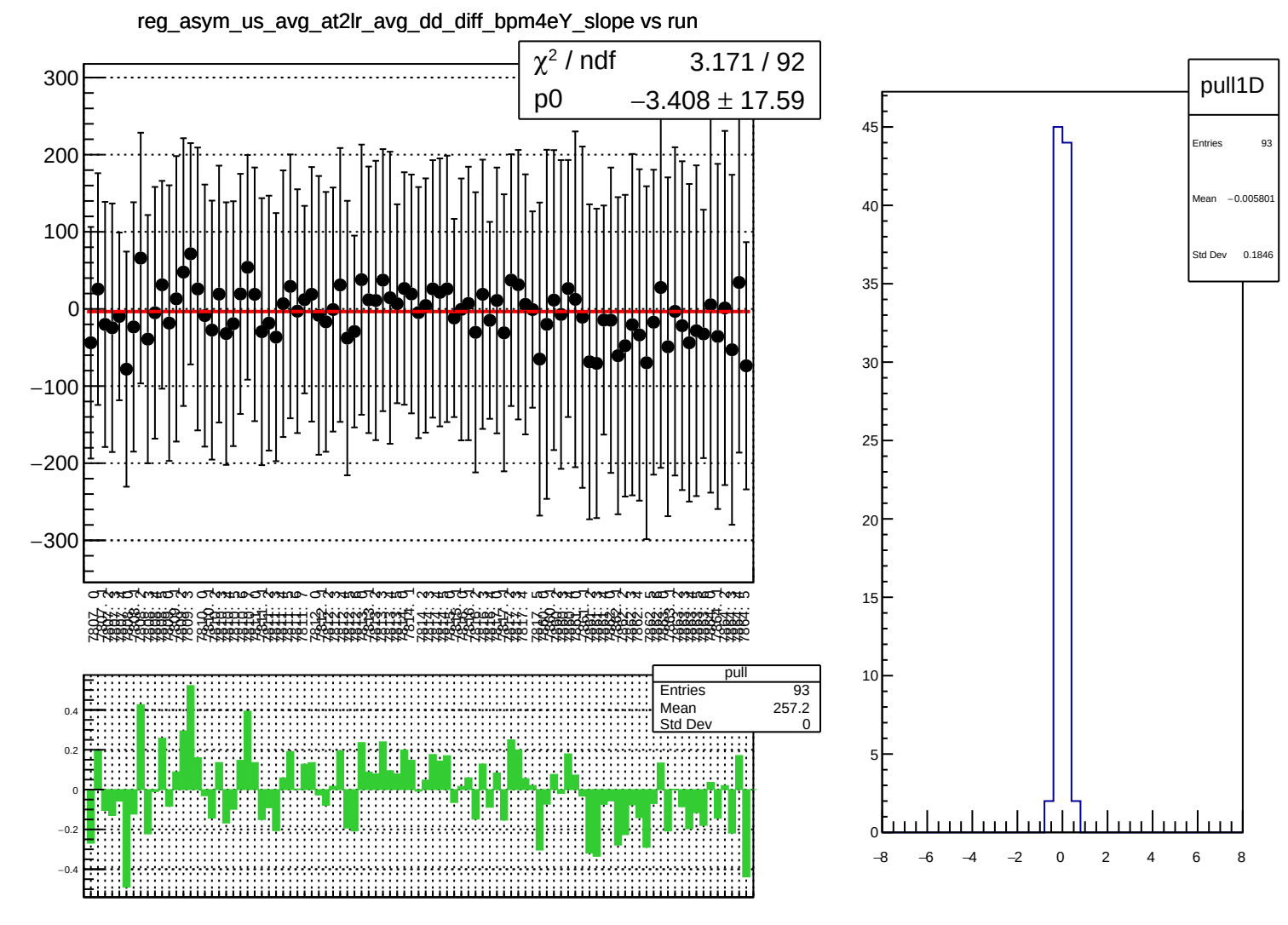

reg_asym_us_avg_at2lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 16.9 / 92
p0 −316.8 ± 0.6893
pull
Entries 93
Mean 105
Std Dev 44.08

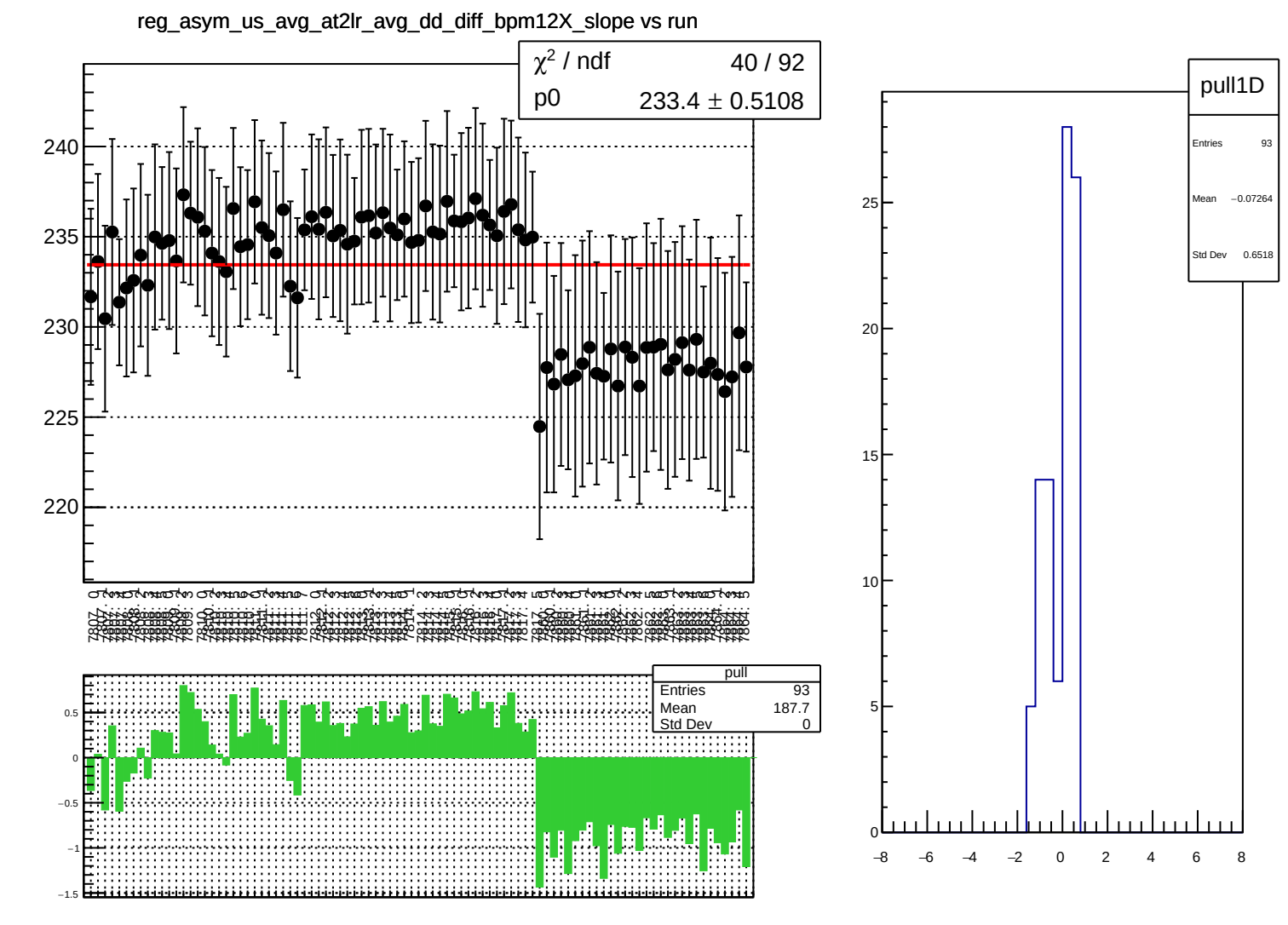

pull1D
Entries 93
Mean 0.03023
Std Dev 0.4253

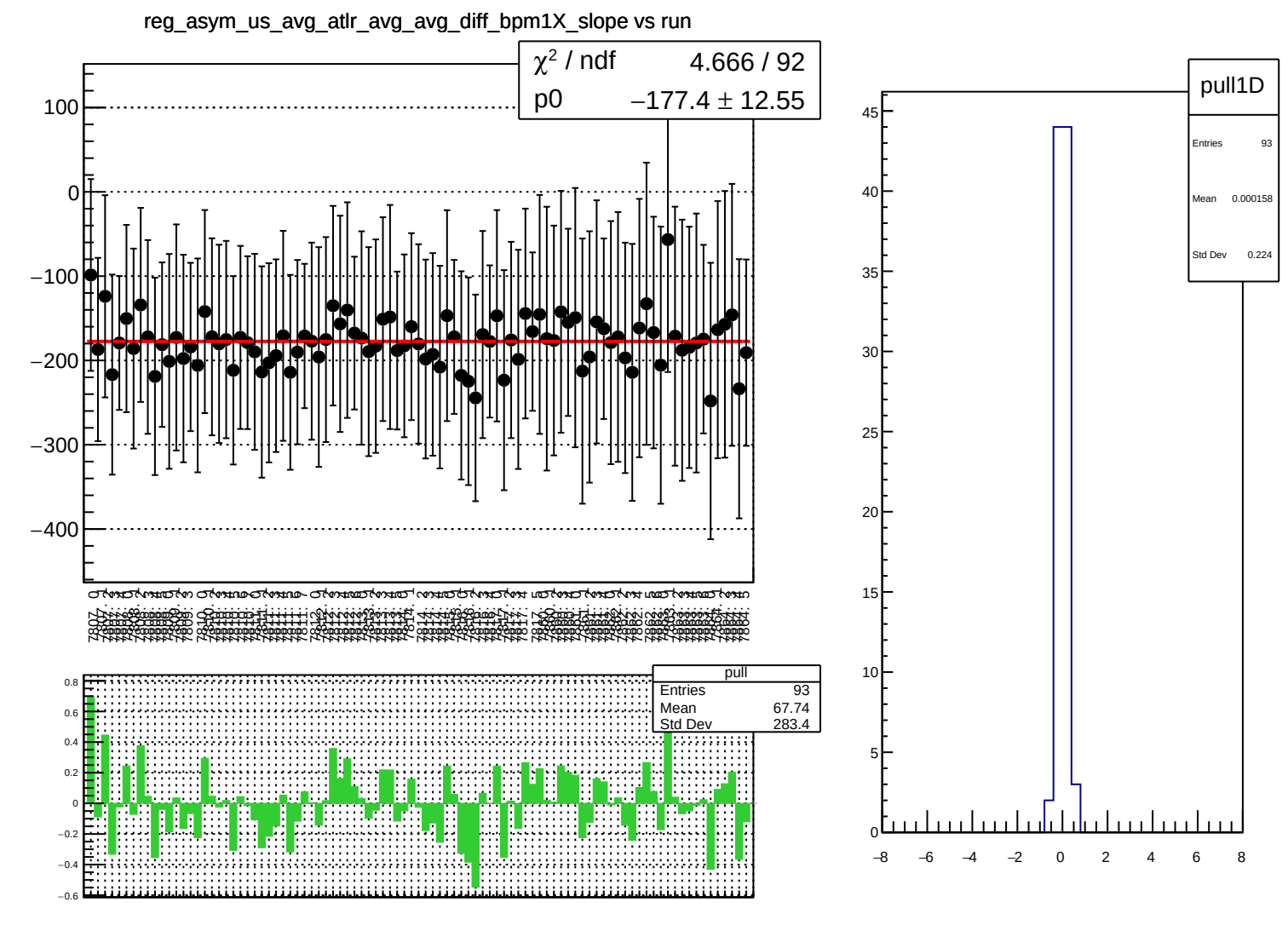

reg_asym_us_avg_at2lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 4.054 / 92
p0 210.7 ± 15.22
400
300
200
100
0
pull
Entries 93
Mean 381.9
Std Dev 0
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 93
Mean −0.003267
Std Dev 0.2087
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

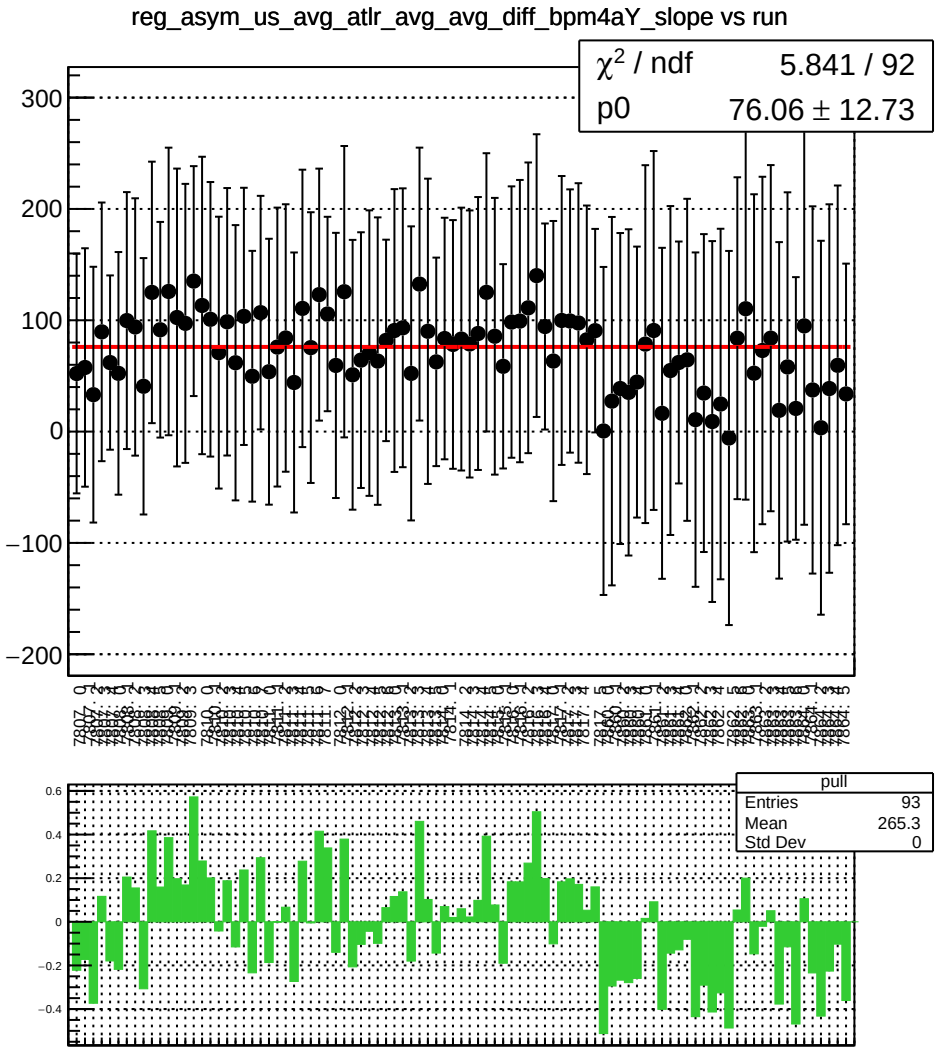

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.005 / 92
p0 −89.45 ± 15.45
pull
Entries 93
Mean 262.3
Std Dev 0
pull1D
Entries 93
Mean 0.01665
Std Dev 0.2536

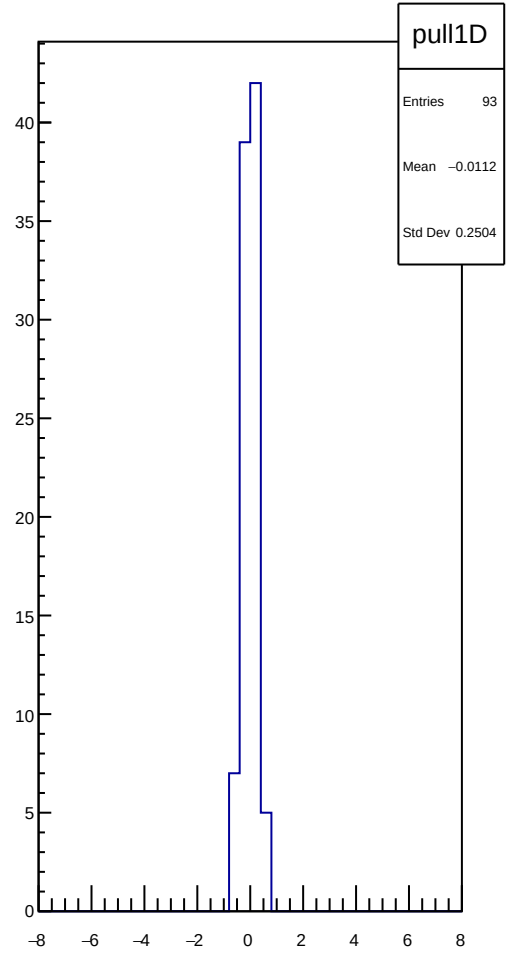

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.889 / 92
p0 −216.7 ± 13.78
pull
Entries 93
Mean 643.7
Std Dev 0
pull1D
Entries 93
Mean 0.003065
Std Dev 0.2293

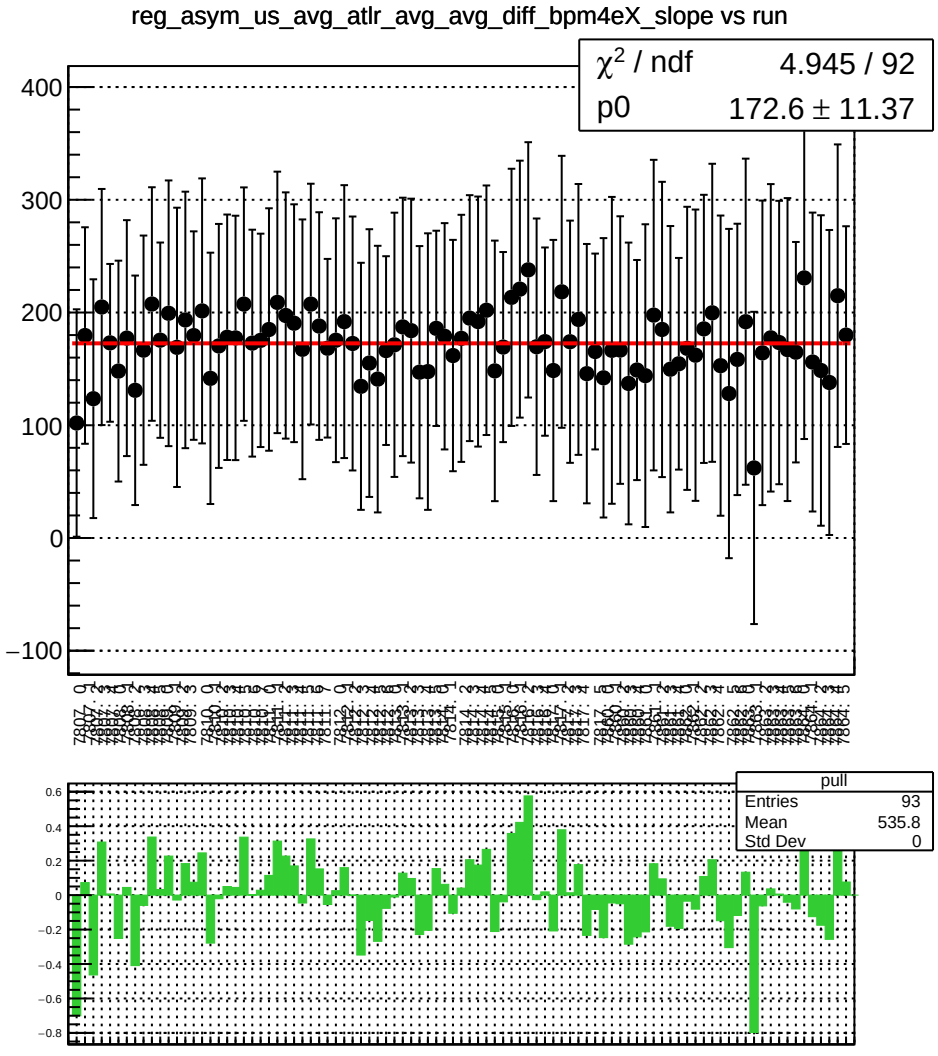

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.171 / 92
p0 −3.408 ± 17.59
pull
Entries 93
Mean 257.2
Std Dev 0
pull1D
Entries 93
Mean −0.005801
Std Dev 0.1846

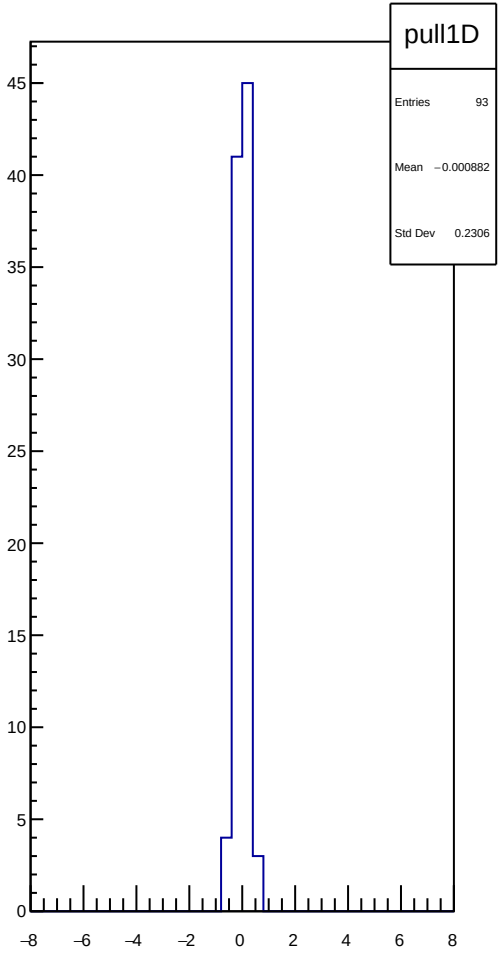

reg_asym_us_avg_at2lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 40 / 92
p0 233.4 ± 0.5108
240
235
230
225
220
pull
Entries 93
Mean 187.7
Std Dev 0
0.5
0
−0.5
−1
−1.5
pull1D
Entries 93
Mean −0.07264
Std Dev 0.6518
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

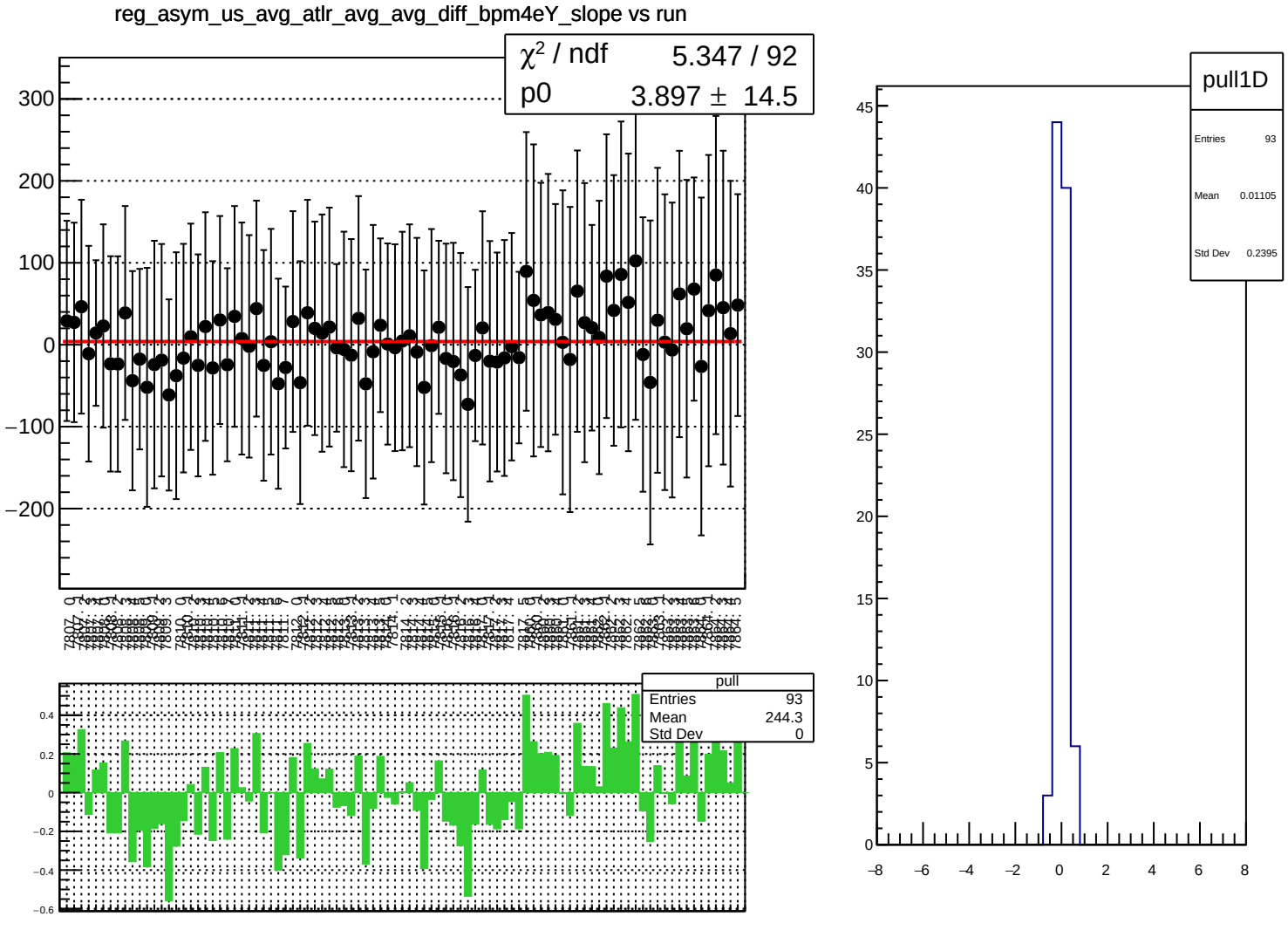

reg_asym_us_avg_atlr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 4.666 / 92
p0 −177.4 ± 12.55
100
0
−100
−200
−300
−400
pull
Entries 93
Mean 67.74
Std Dev 283.4
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 93
Mean 0.000158
Std Dev 0.224
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

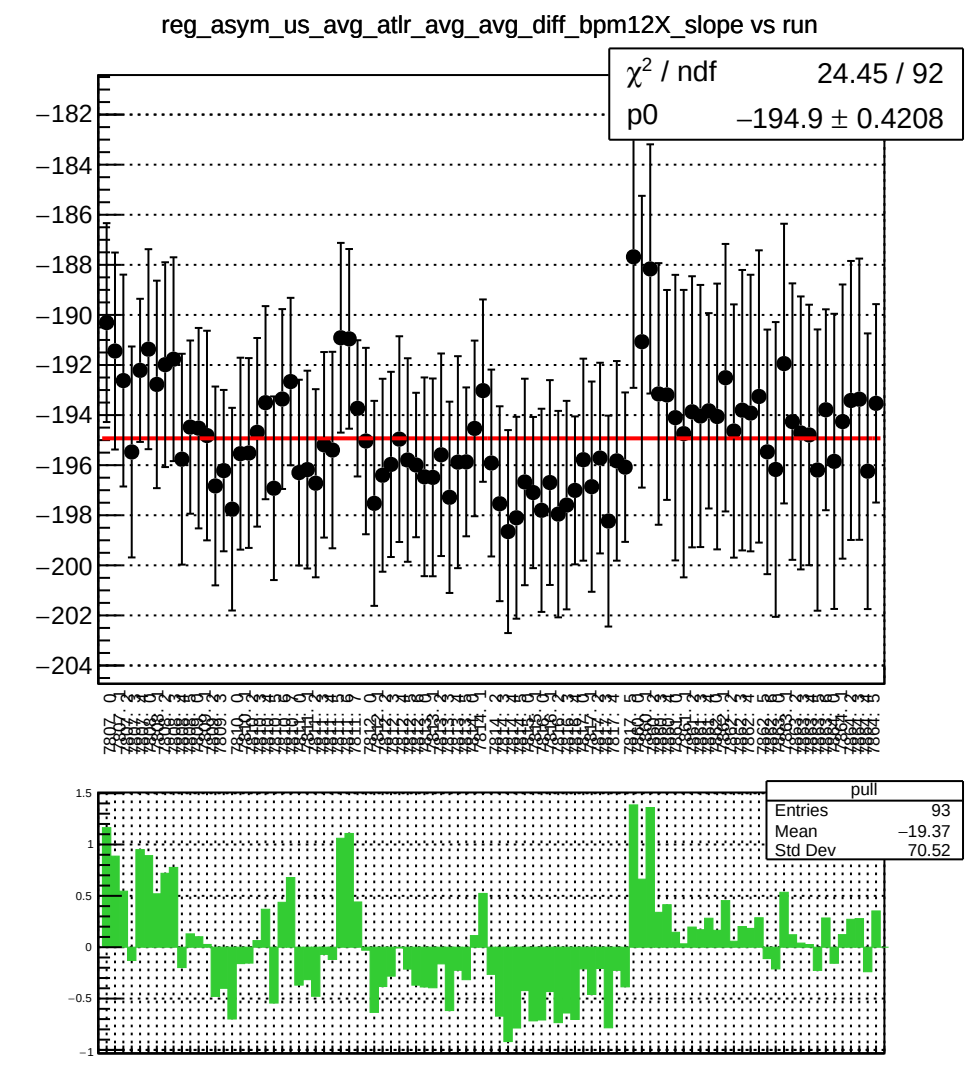

reg_asym_us_avg_atlr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.841 / 92
p0 76.06 ± 12.73
300
200
100
0
−100
−200
pull
Entries 93
Mean 265.3
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4

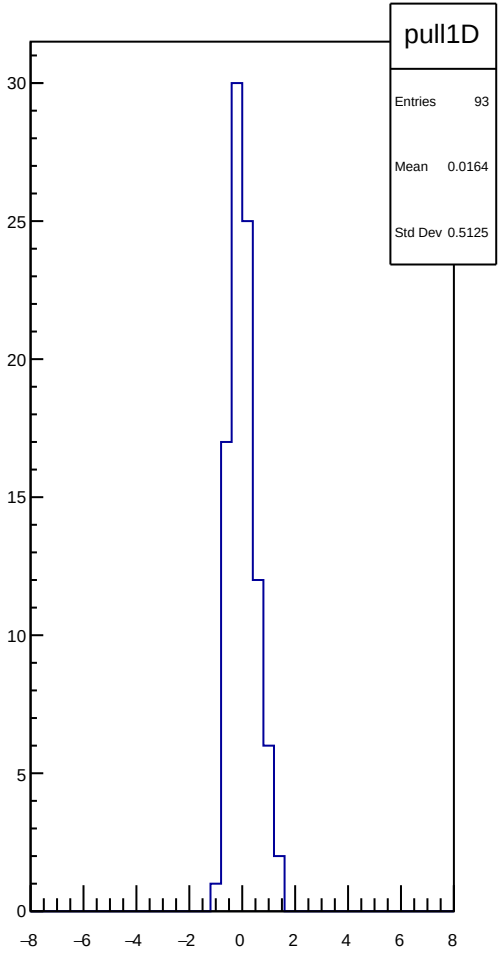

pull1D
Entries 93
Mean −0.0112
Std Dev 0.2504
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

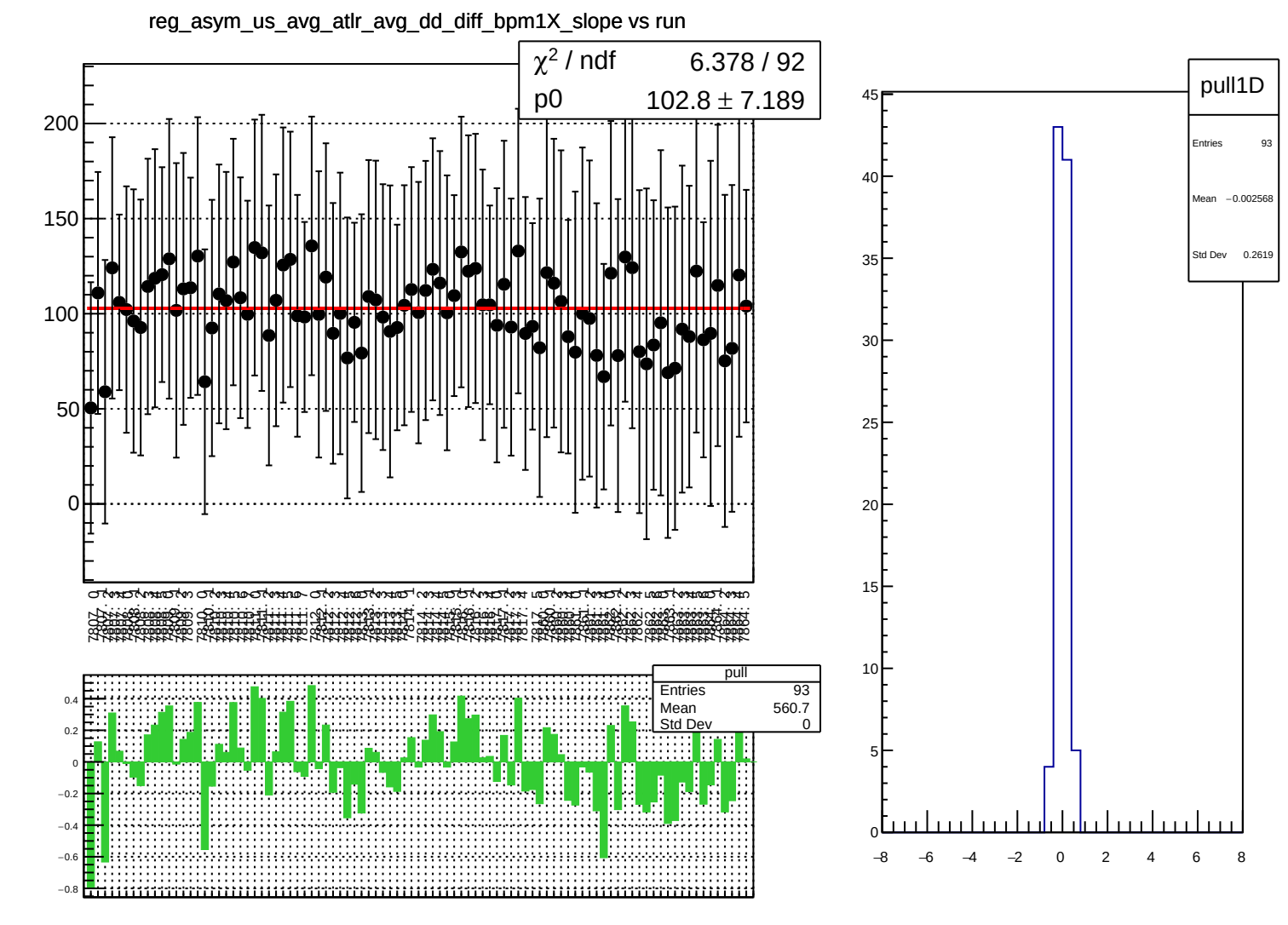

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.945 / 92
p0 172.6 ± 11.37
pull
Entries 93
Mean 535.8
Std Dev 0

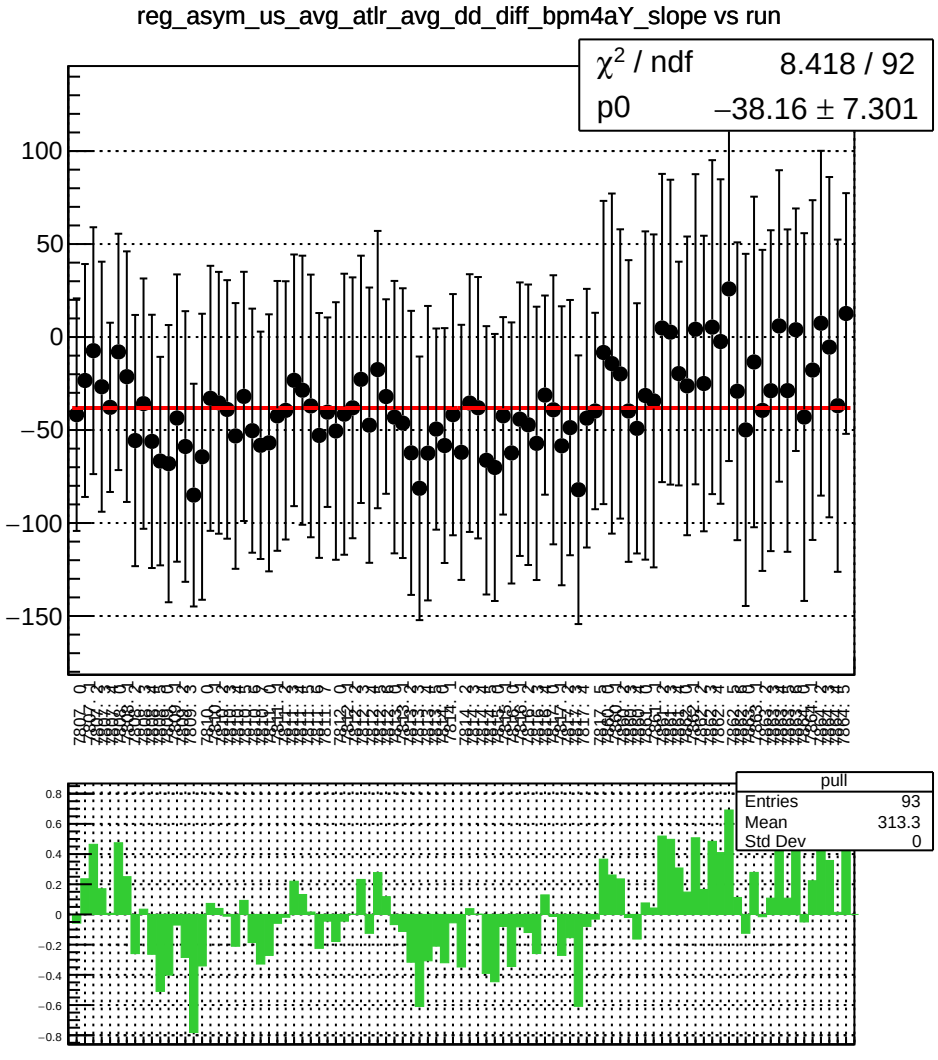

pull1D
Entries 93
Mean −0.000882
Std Dev 0.2306

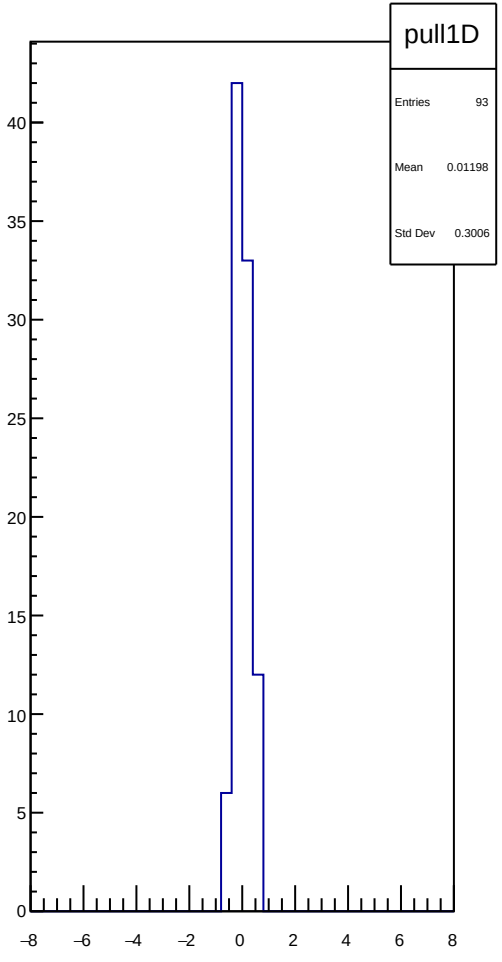

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.347 / 92
p0 3.897 ± 14.5
pull
Entries 93
Mean 244.3
Std Dev 0
pull1D
Entries 93
Mean 0.01105
Std Dev 0.2395

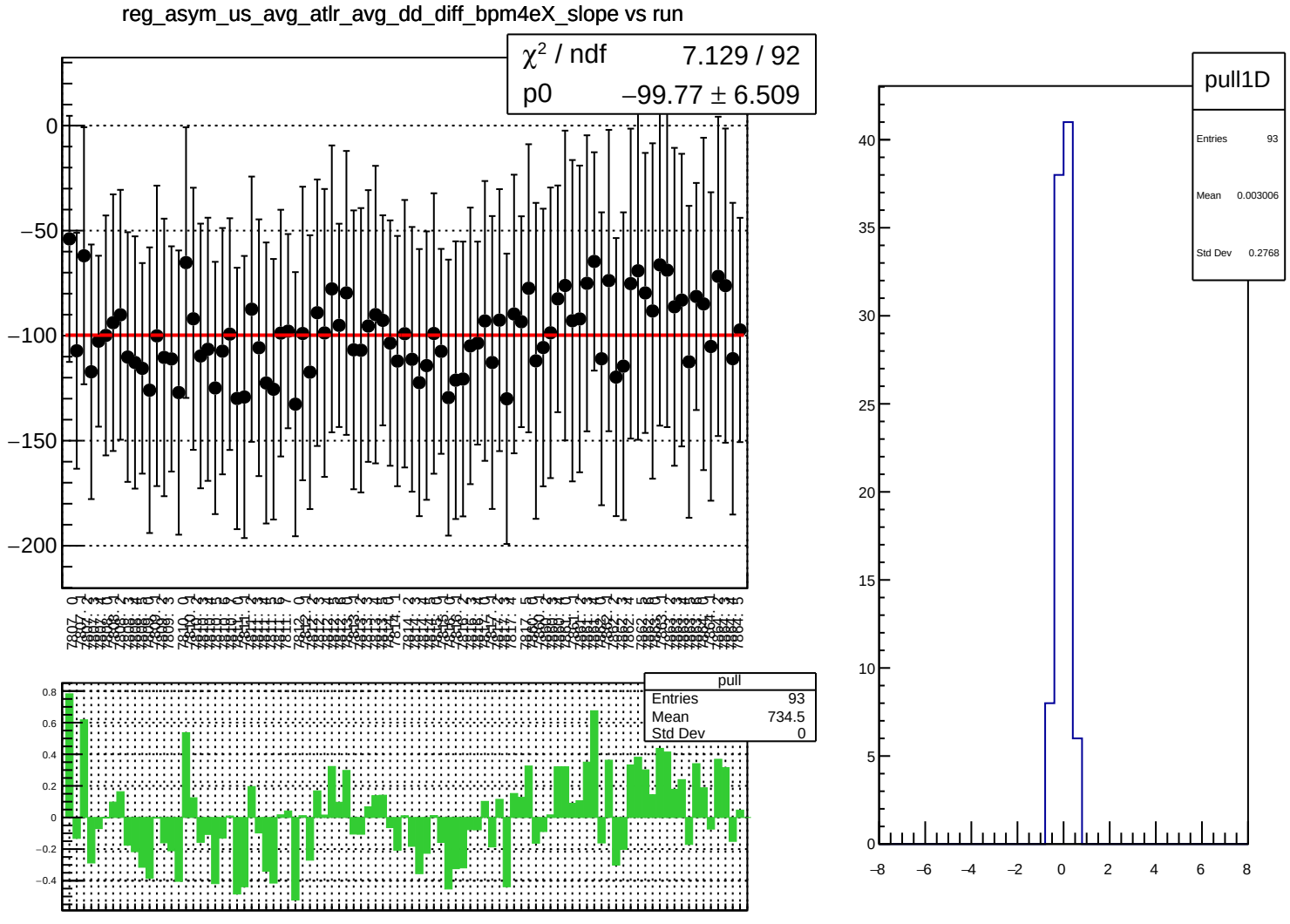

reg_asym_us_avg_atlr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 24.45 / 92
p0 −194.9 ± 0.4208
pull
Entries 93
Mean −19.37
Std Dev 70.52

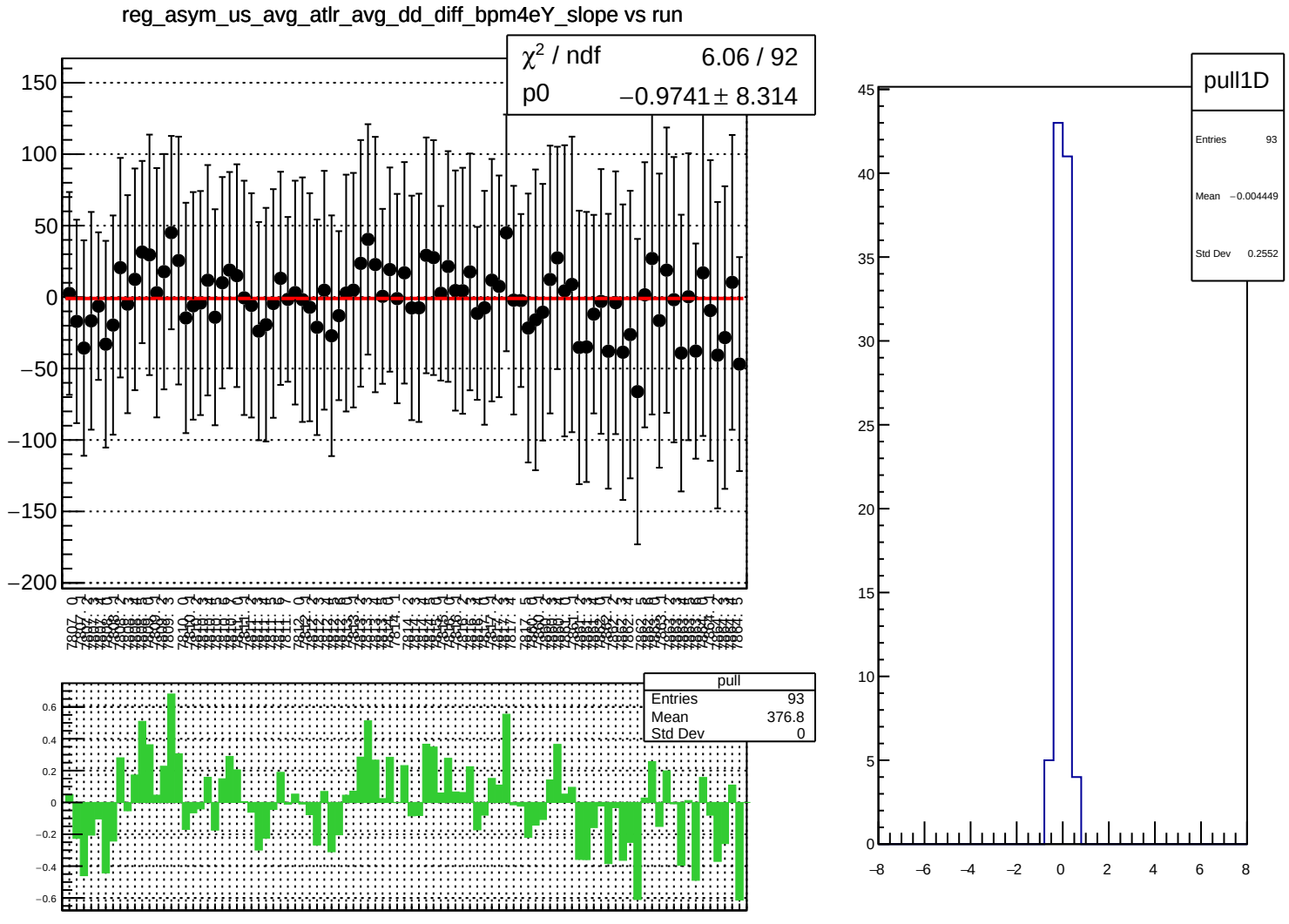

pull1D
Entries 93
Mean 0.0164
Std Dev 0.5125

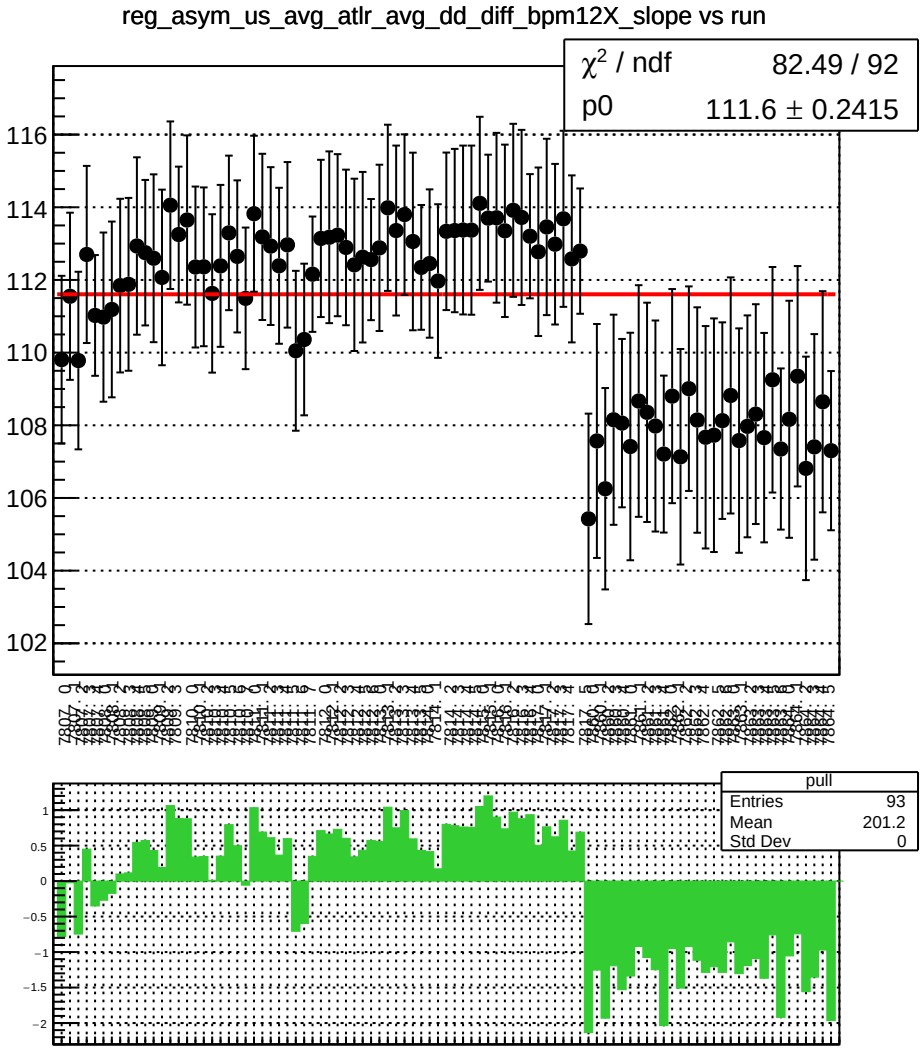

reg_asym_us_avg_atlr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 6.378 / 92
p0 102.8 ± 7.189
pull
Entries 93
Mean 560.7
Std Dev 0
pull1D
Entries 93
Mean −0.002568
Std Dev 0.2619

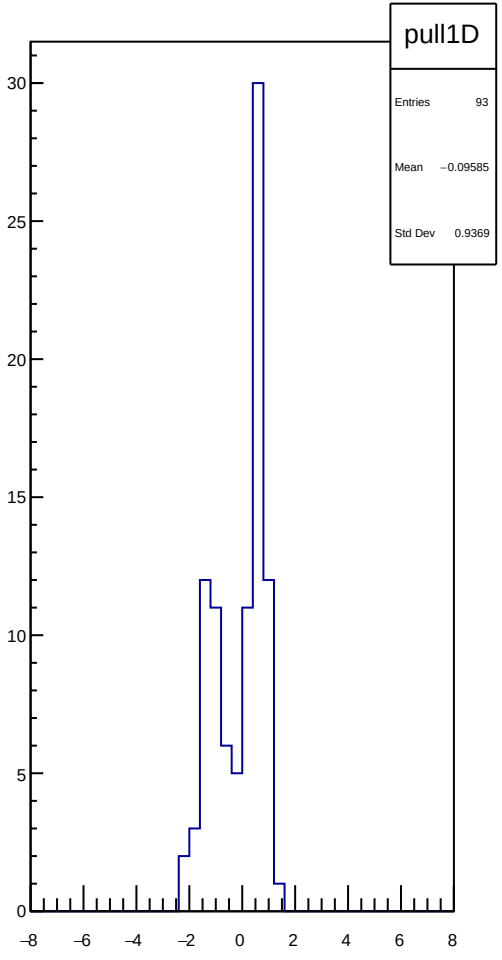

reg_asym_us_avg_atlr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.418 / 92
p0 −38.16 ± 7.301
pull
Entries 93
Mean 313.3
Std Dev 0

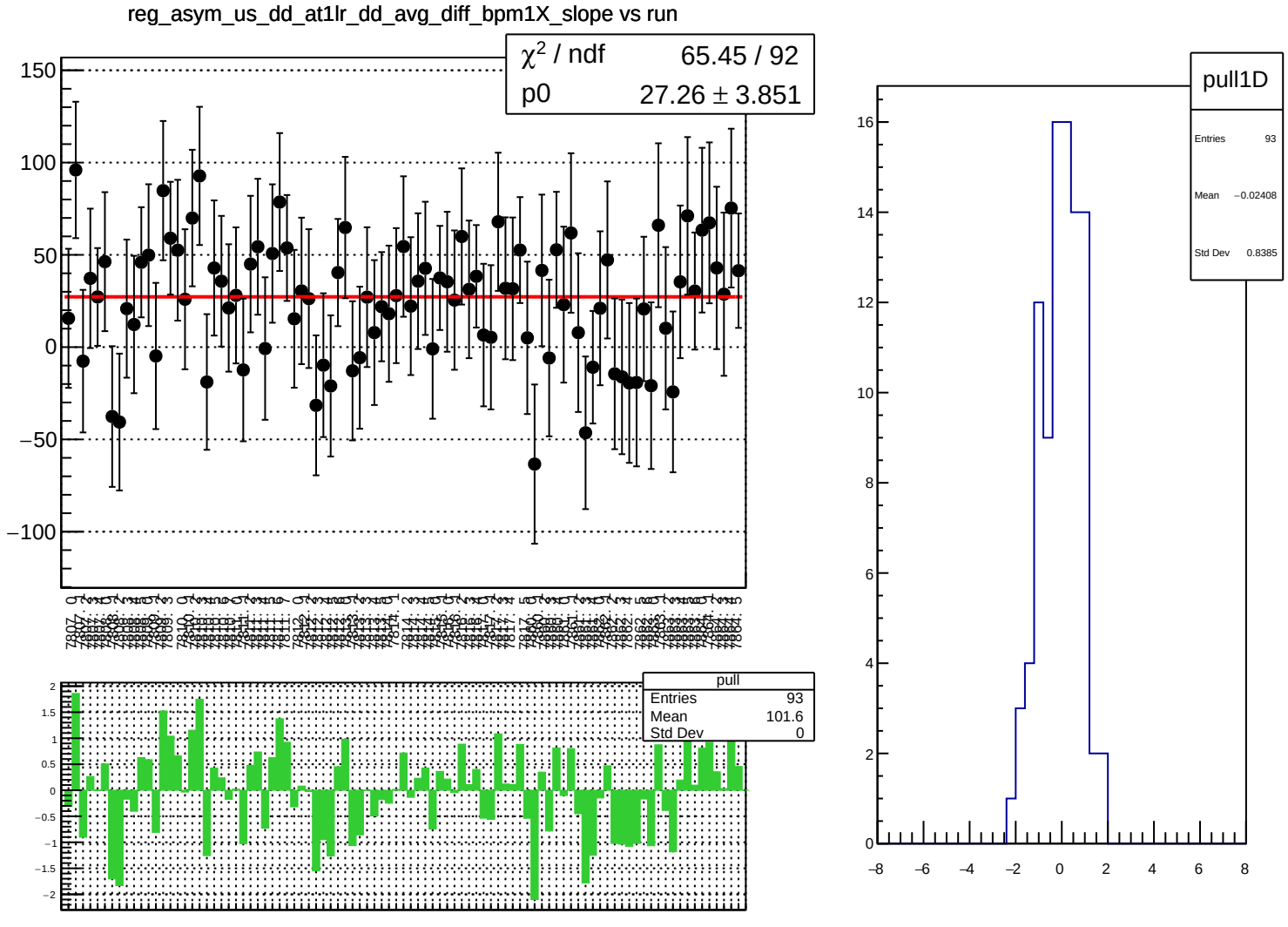

pull1D
Entries 93
Mean 0.01198
Std Dev 0.3006

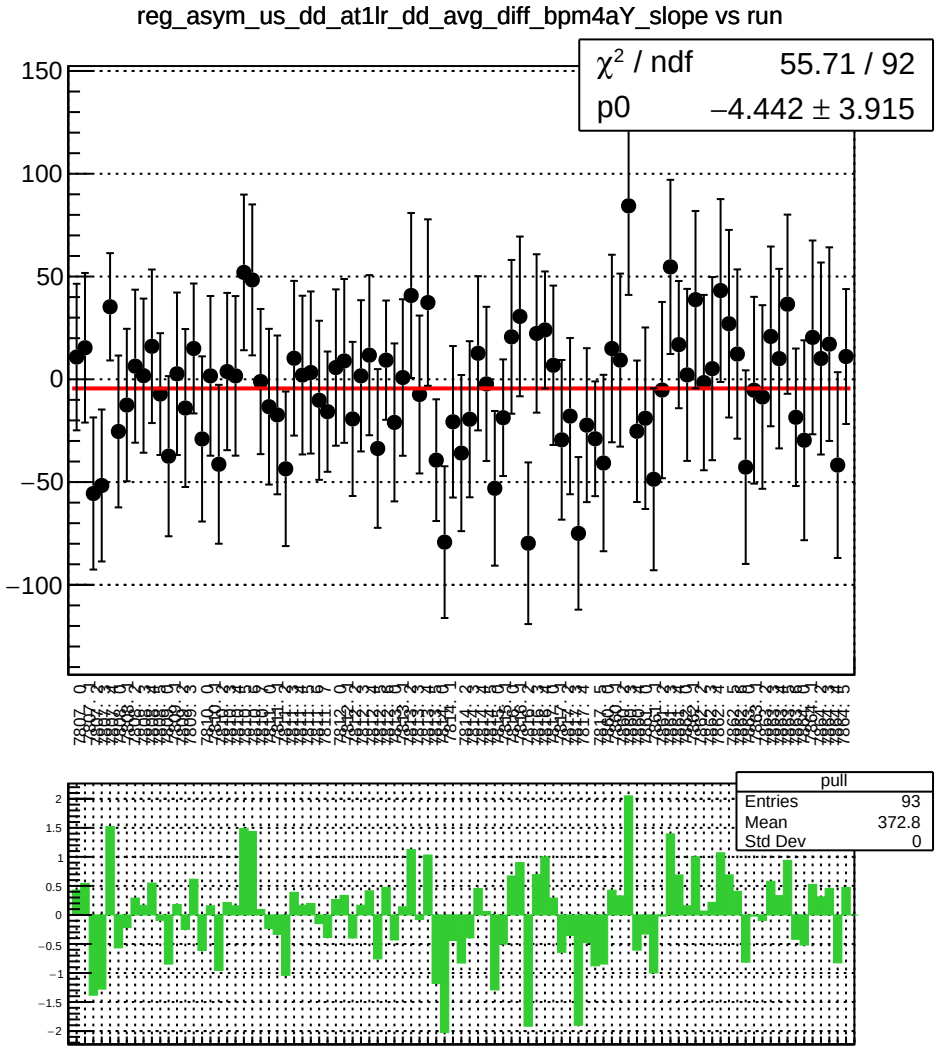

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.129 / 92
p0 −99.77 ± 6.509
pull
Entries 93
Mean 734.5
Std Dev 0
pull1D
Entries 93
Mean 0.003006
Std Dev 0.2768

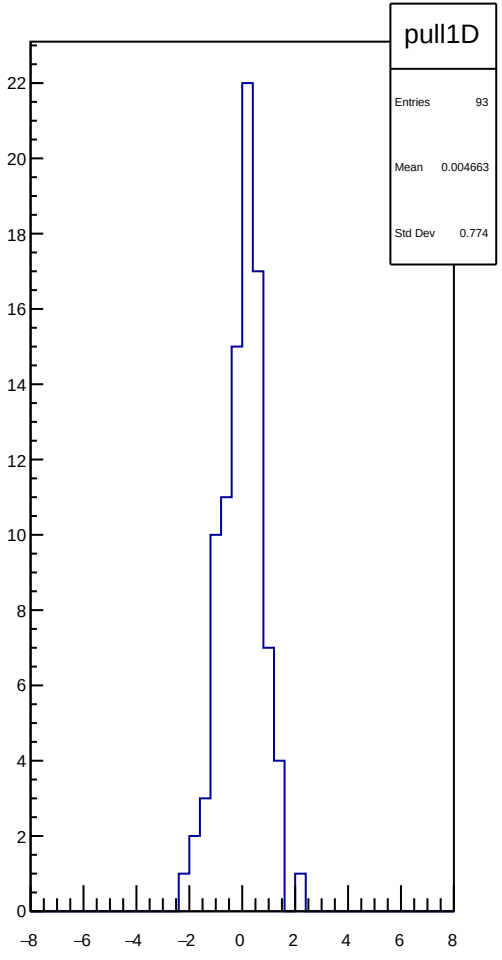

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.06 / 92
p0 −0.9741 ± 8.314
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean 376.8
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 93
Mean −0.004449
Std Dev 0.2552
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

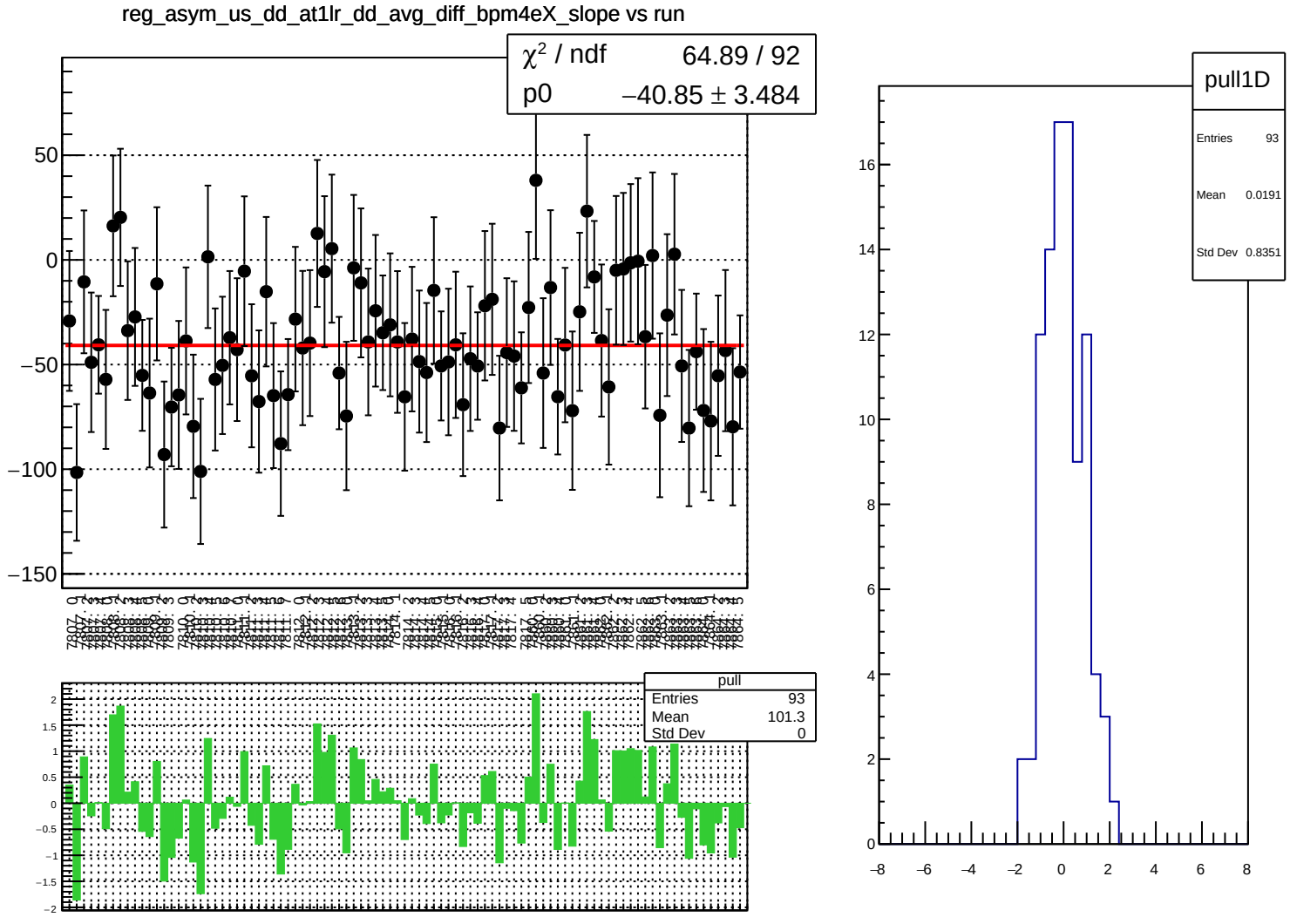

reg_asym_us_avg_atlr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 82.49 / 92
p0 111.6 ± 0.2415
116
114
112
110
108
106
104
102
pull
Entries 93
Mean 201.2
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

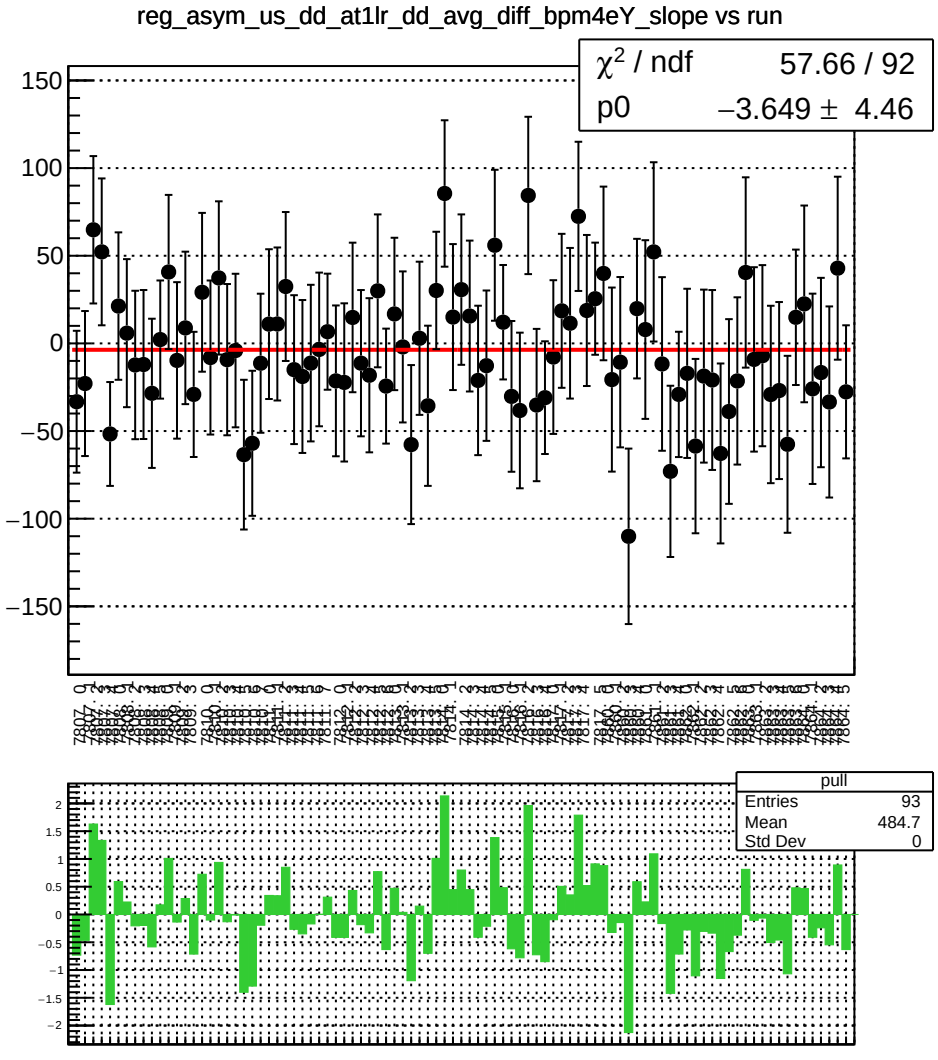

pull1D
Entries 93
Mean −0.09585
Std Dev 0.9369
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

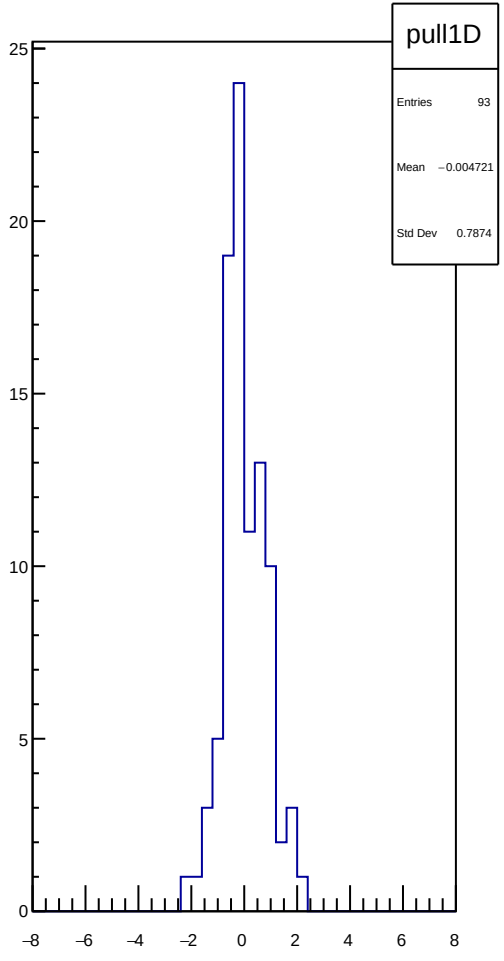

reg_asym_us_dd_at1lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 65.45 / 92
p0 27.26 ± 3.851
150
100
50
0
−50
−100
pull
Entries 93
Mean 101.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean −0.02408
Std Dev 0.8385
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

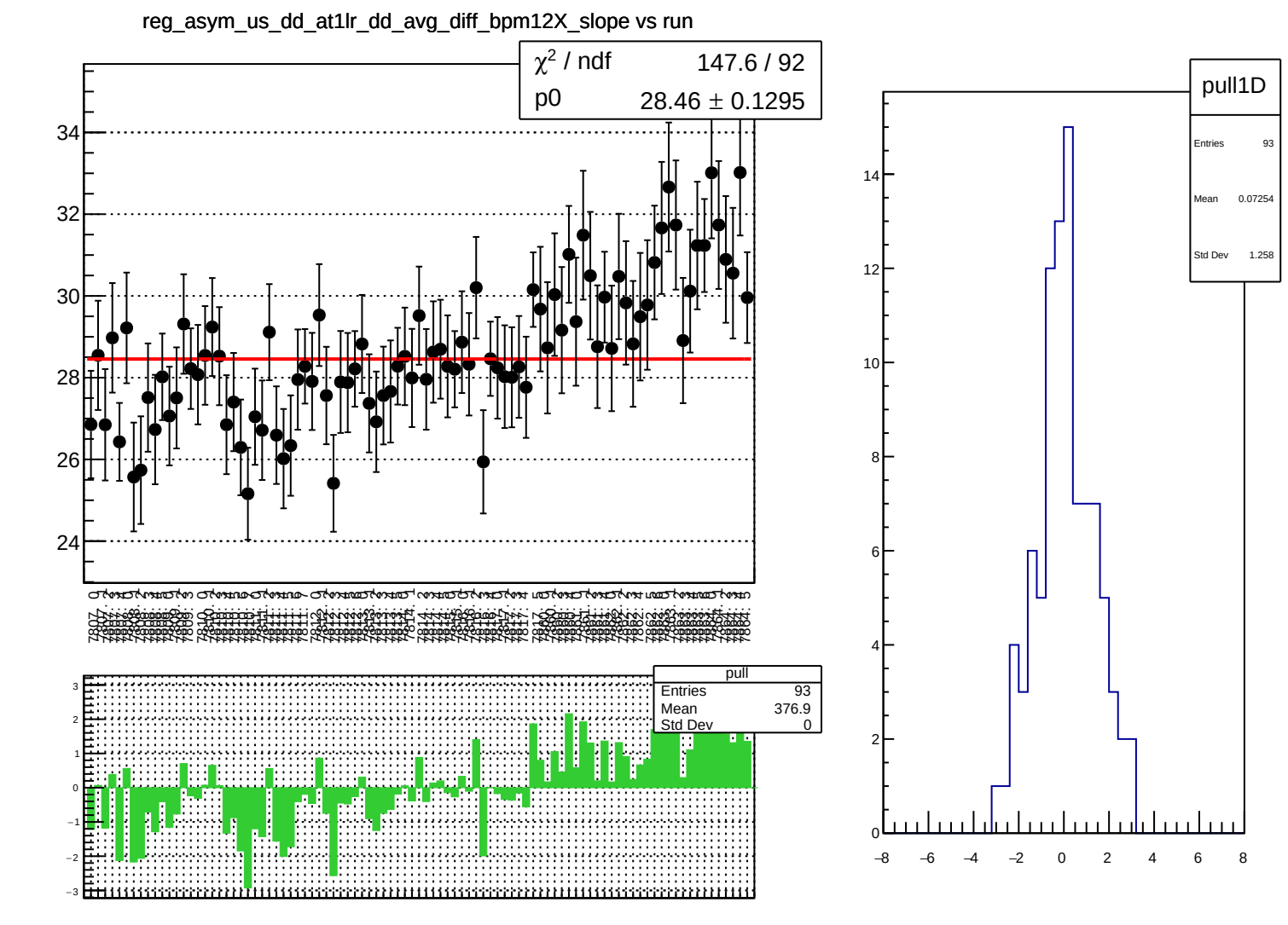

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 55.71 / 92
p0 −4.442 ± 3.915
150
100
50
0
−50
−100
pull
Entries 93
Mean 372.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

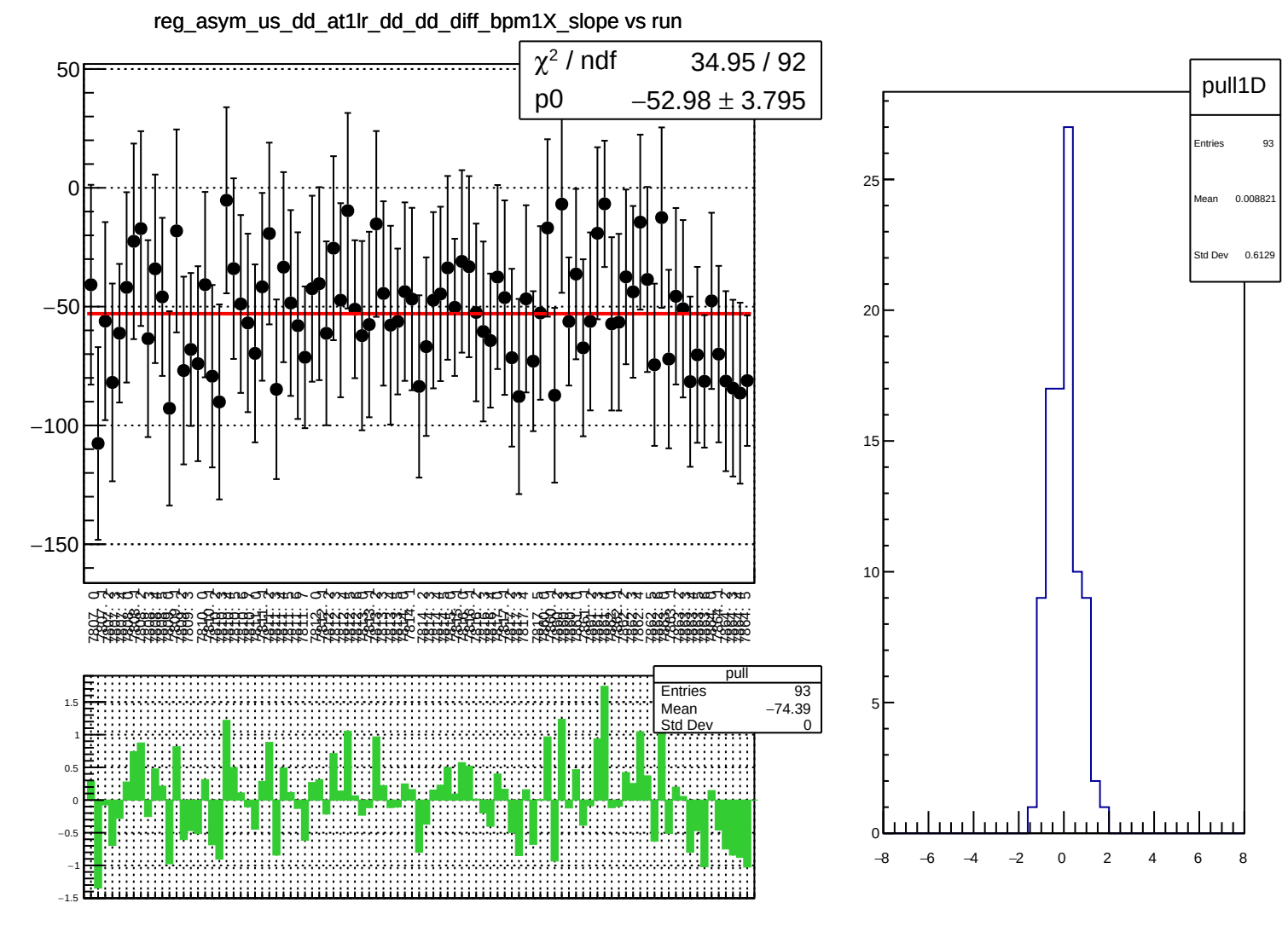

pull1D
Entries 93
Mean 0.004663
Std Dev 0.774
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

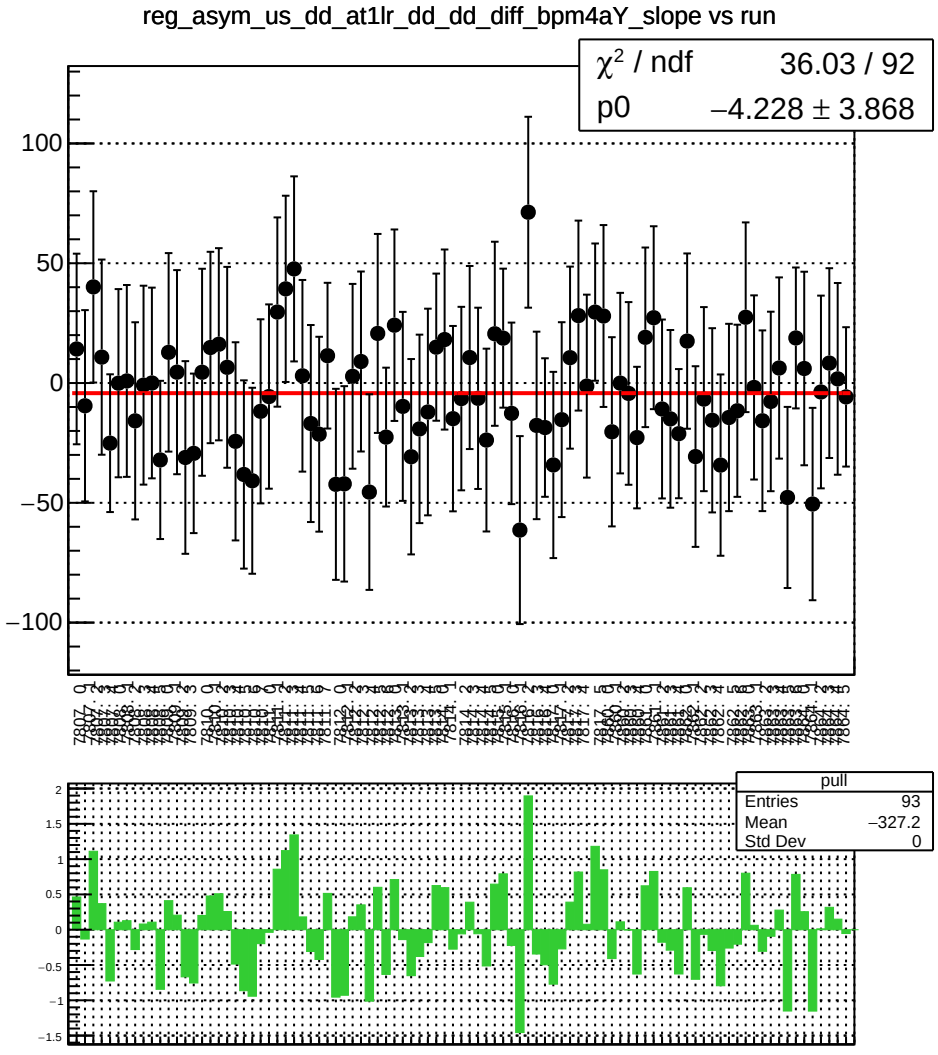

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 64.89 / 92
p0 −40.85 ± 3.484
pull
Entries 93
Mean 101.3
Std Dev 0
pull1D
Entries 93
Mean 0.0191
Std Dev 0.8351

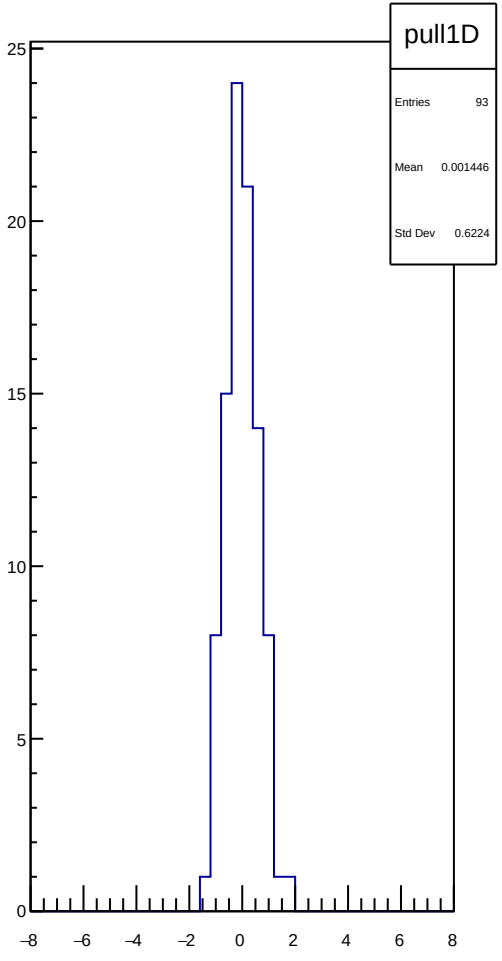

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 57.66 / 92
p0 −3.649 ± 4.46
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean 484.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

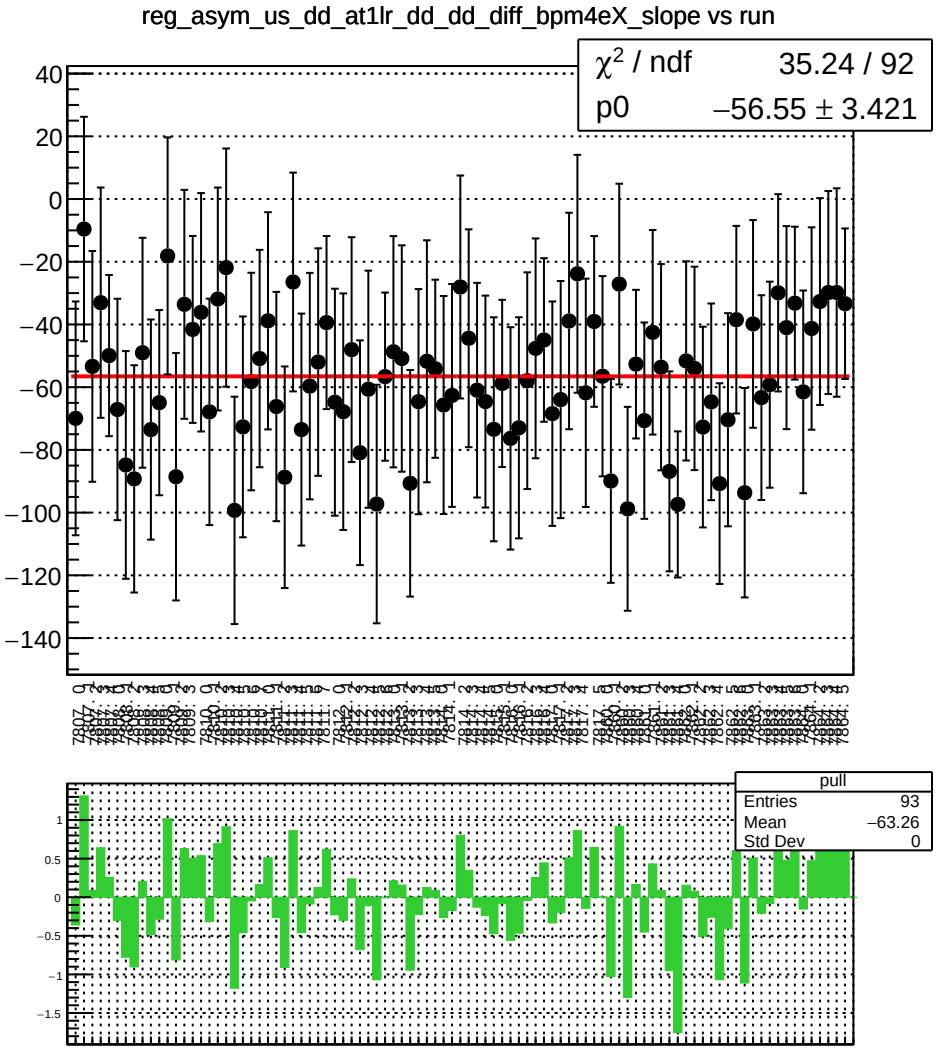

pull1D
Entries 93
Mean −0.004721
Std Dev 0.7874
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

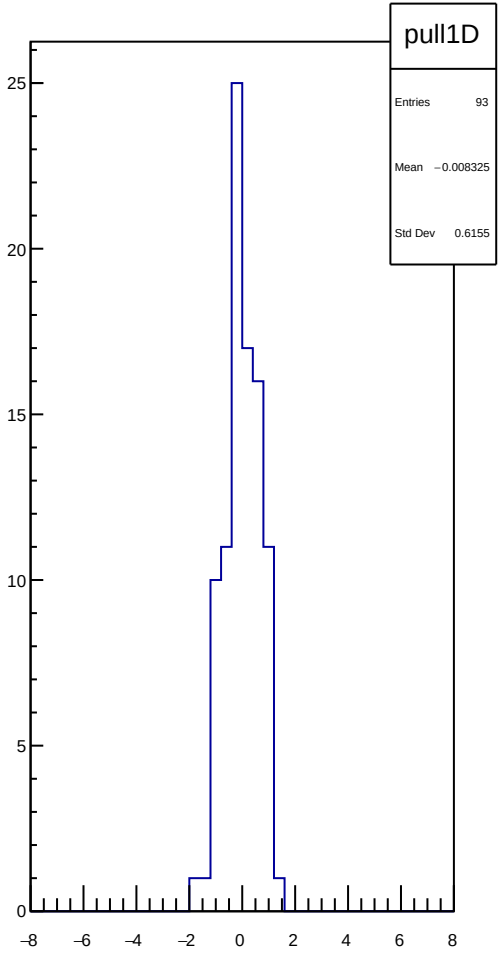

reg_asym_us_dd_at1lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 147.6 / 92
p0 28.46 ± 0.1295
pull
Entries 93
Mean 376.9
Std Dev 0
pull1D
Entries 93
Mean 0.07254
Std Dev 1.258

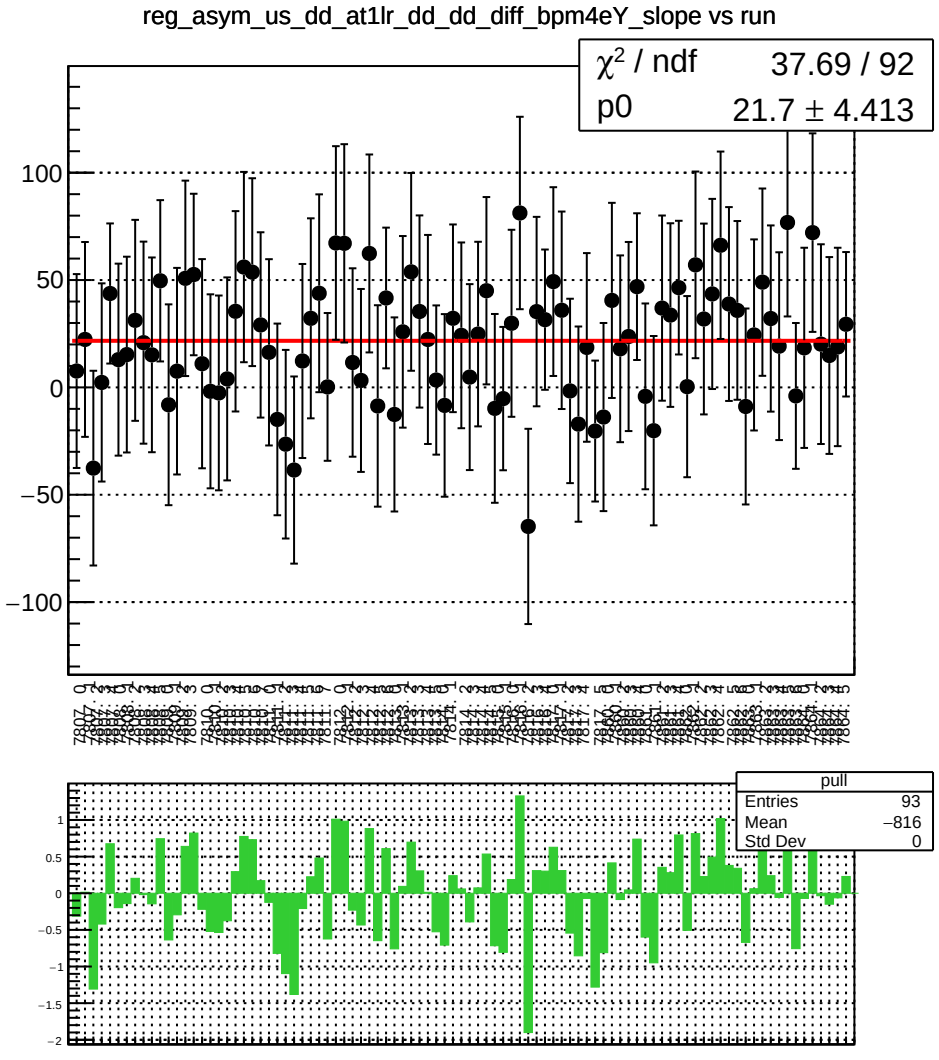

reg_asym_us_dd_at1lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 34.95 / 92
p0 −52.98 ± 3.795
50
0
−50
−100
−150
pull
Entries 93
Mean −74.39
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 93
Mean 0.008821
Std Dev 0.6129
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

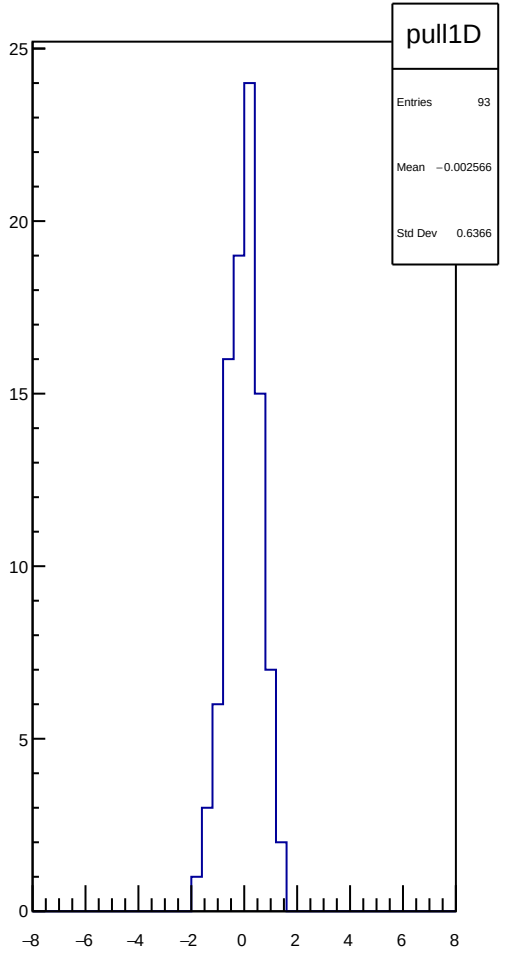

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 36.03 / 92
p0 −4.228 ± 3.868
pull
Entries 93
Mean −327.2
Std Dev 0

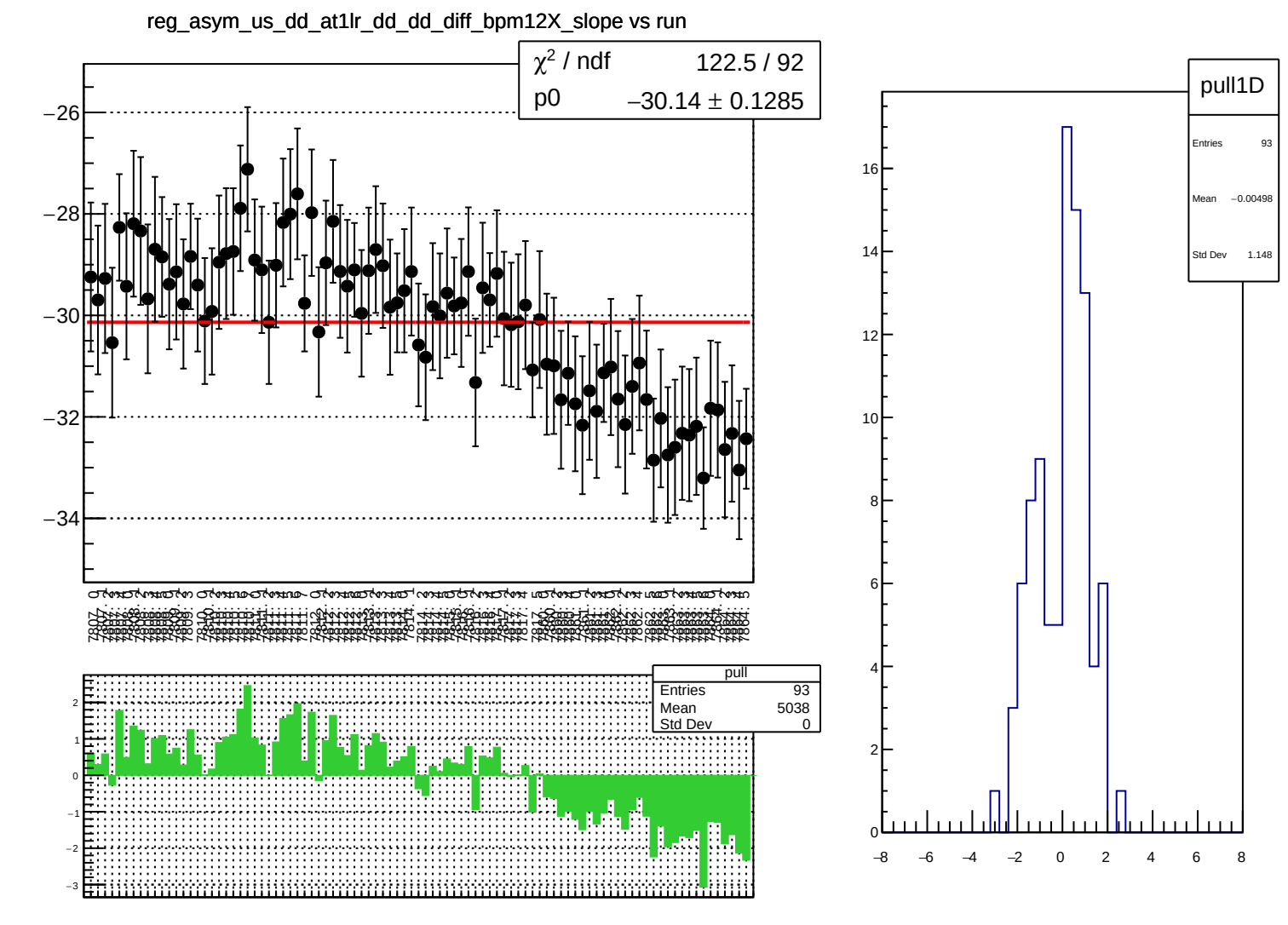

pull1D
Entries 93
Mean 0.001446
Std Dev 0.6224

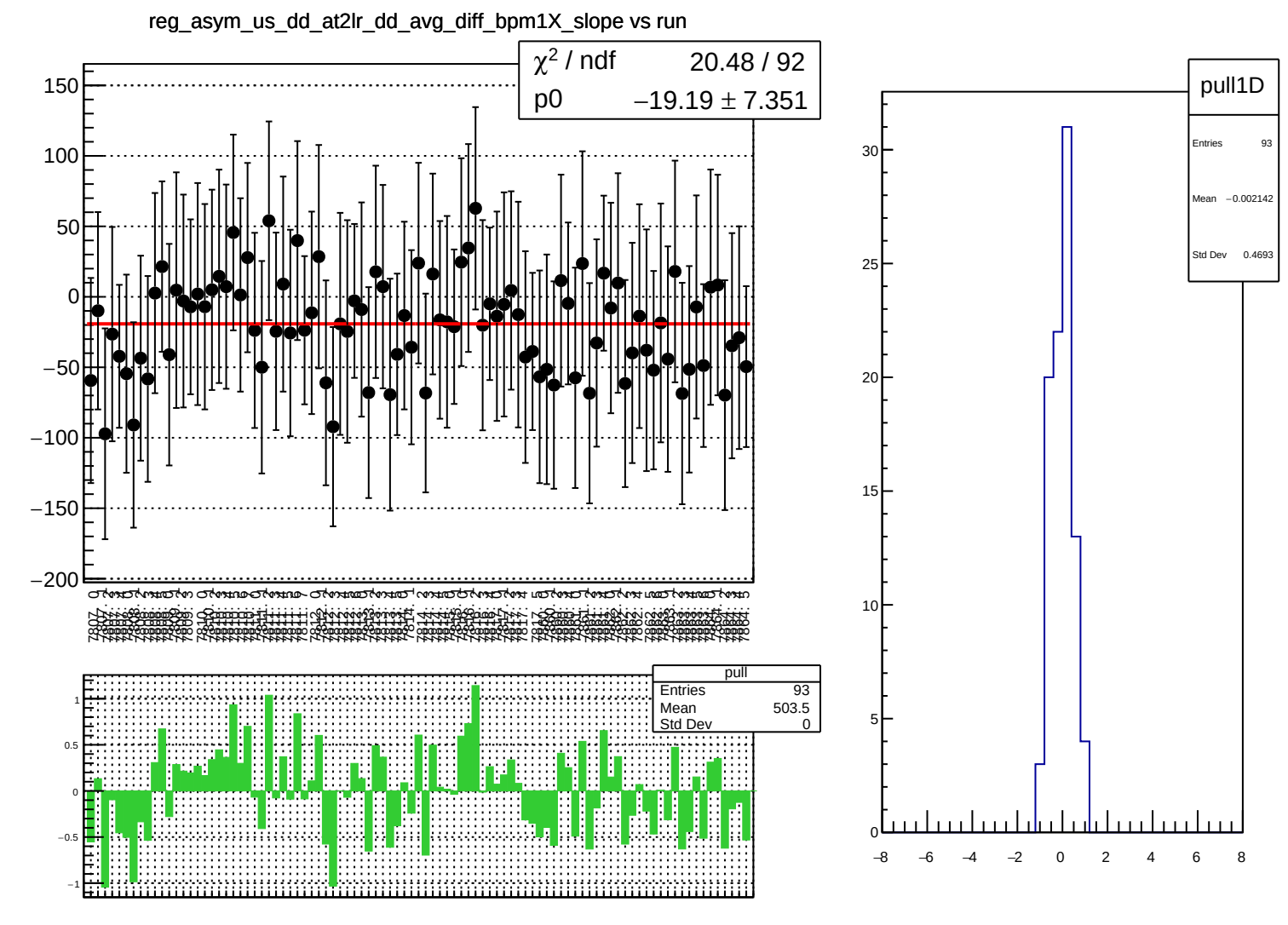

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 35.24 / 92
p0 −56.55 ± 3.421
pull
Entries 93
Mean −63.26
Std Dev 0

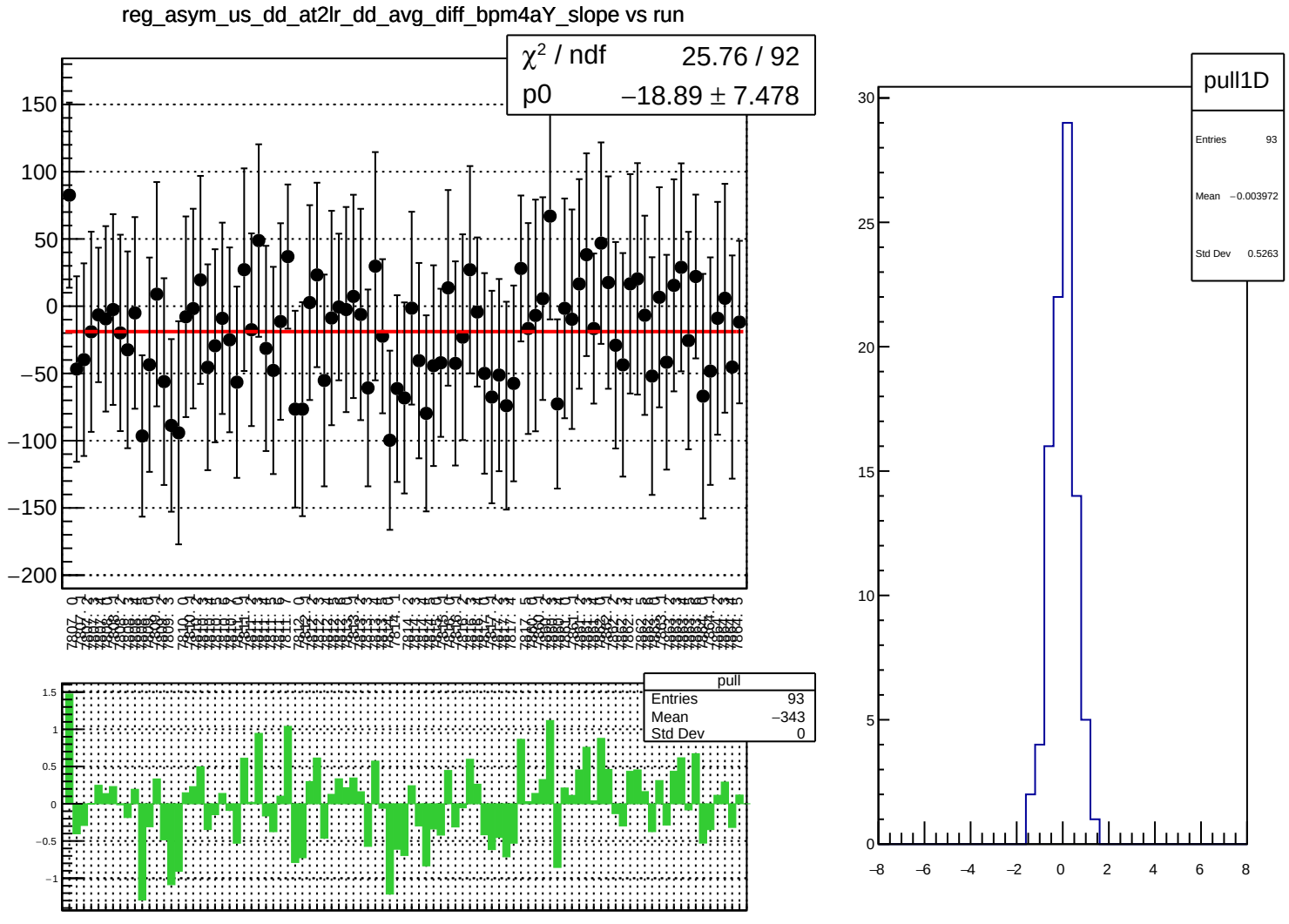

pull1D
Entries 93
Mean −0.008325
Std Dev 0.6155

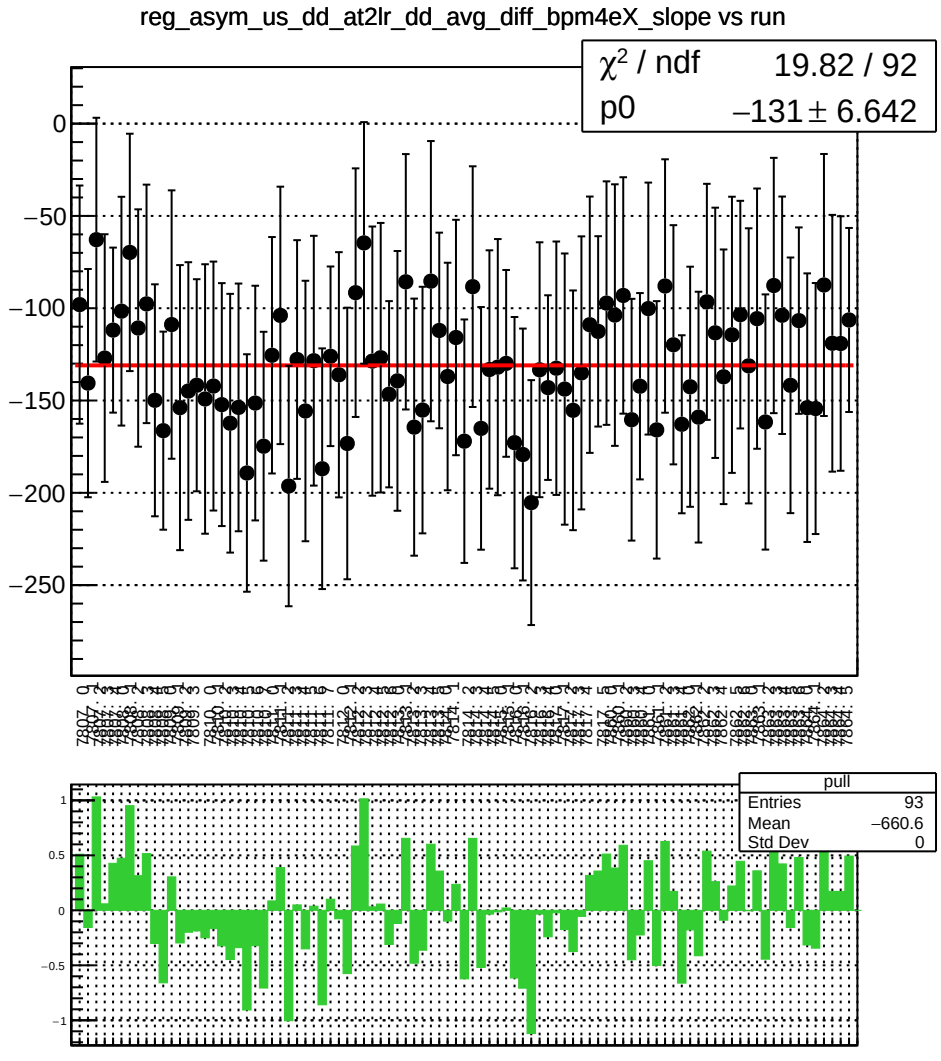

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 37.69 / 92
p0 21.7 ± 4.413
100
50
0
−50
−100
pull
Entries 93
Mean −816
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

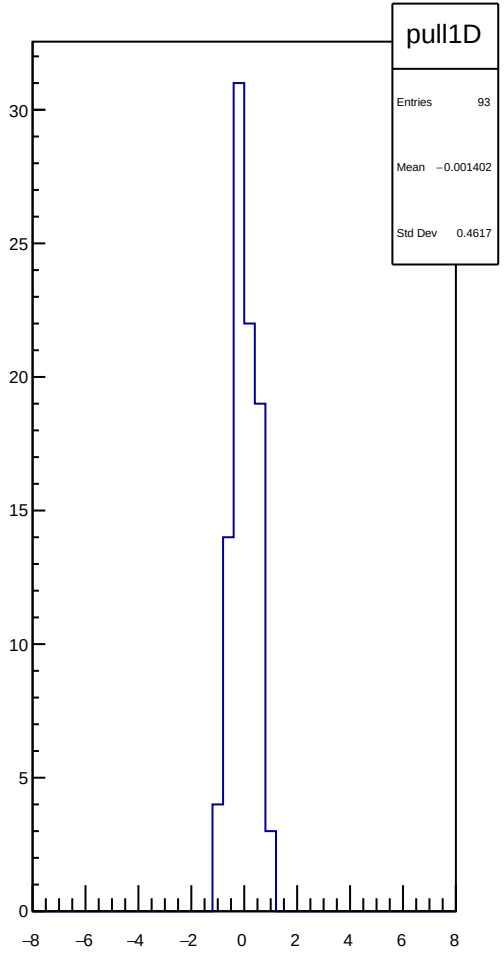

pull1D
Entries 93
Mean −0.002566
Std Dev 0.6366
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

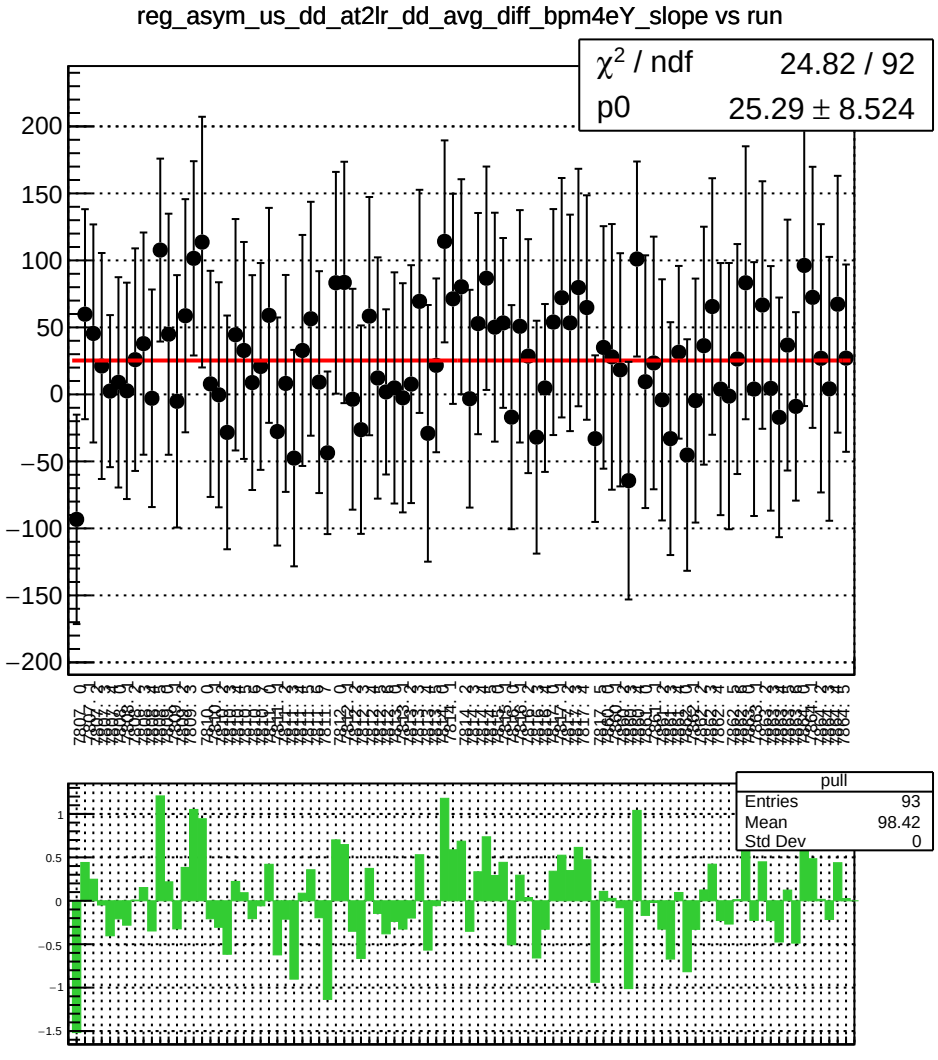

reg_asym_us_dd_at1lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 122.5 / 92
p0 −30.14 ± 0.1285
−26
−28
−30
−32
−34
pull
Entries 93
Mean 5038
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.00498
Std Dev 1.148
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

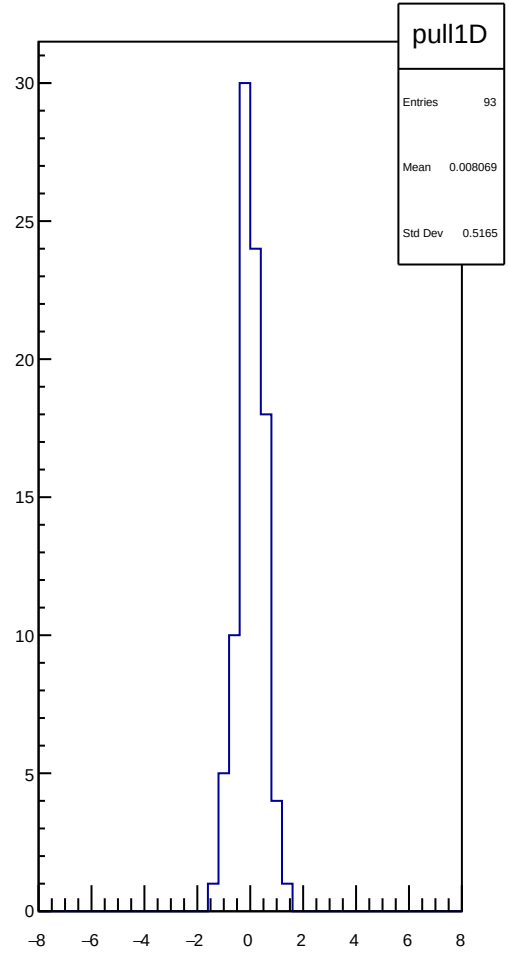

reg_asym_us_dd_at2lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 20.48 / 92
p0 −19.19 ± 7.351
pull
Entries 93
Mean 503.5
Std Dev 0
pull1D
Entries 93
Mean −0.002142
Std Dev 0.4693

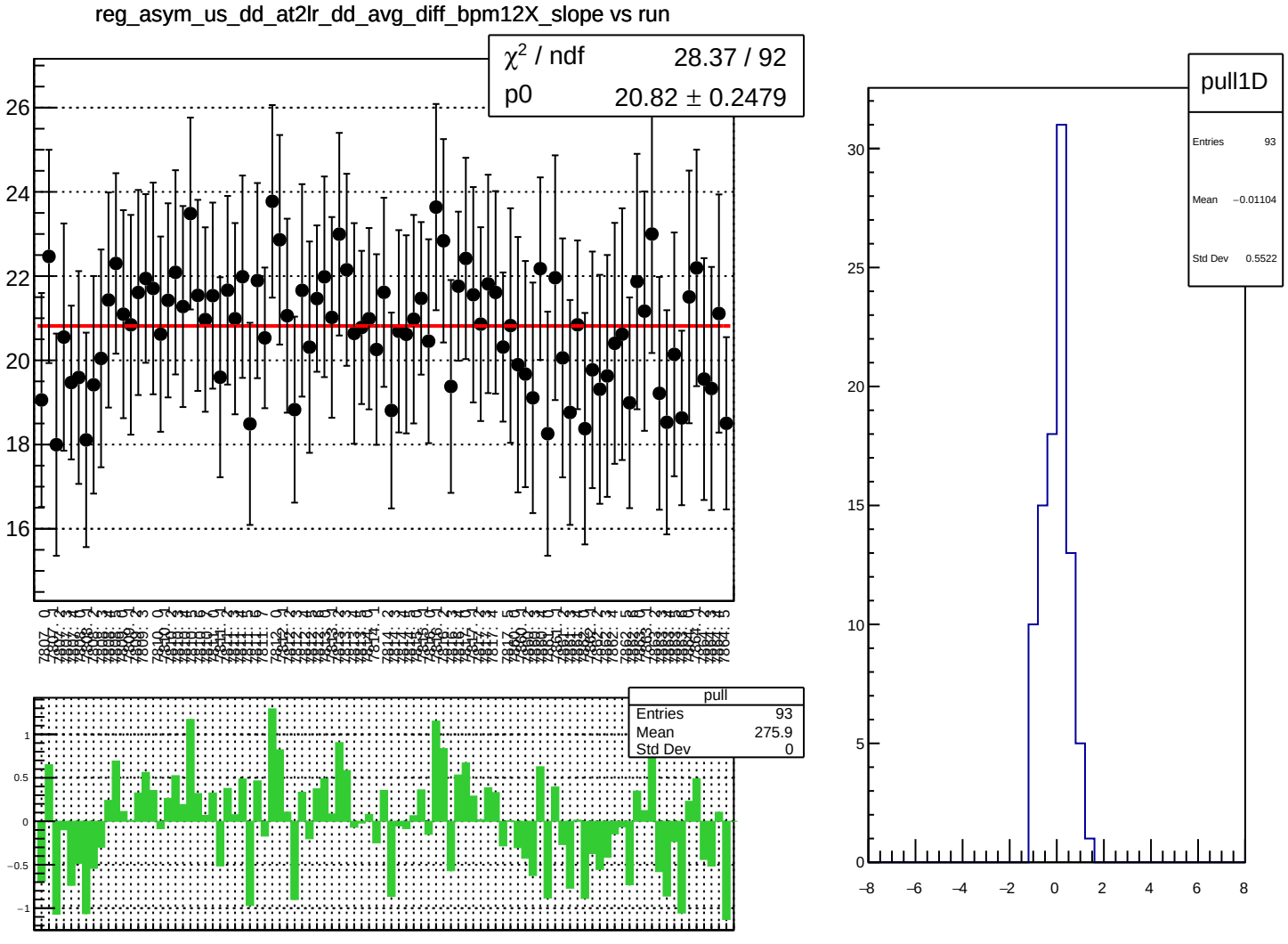

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 25.76 / 92
p0 −18.89 ± 7.478
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean −343
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 93
Mean −0.003972
Std Dev 0.5263
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

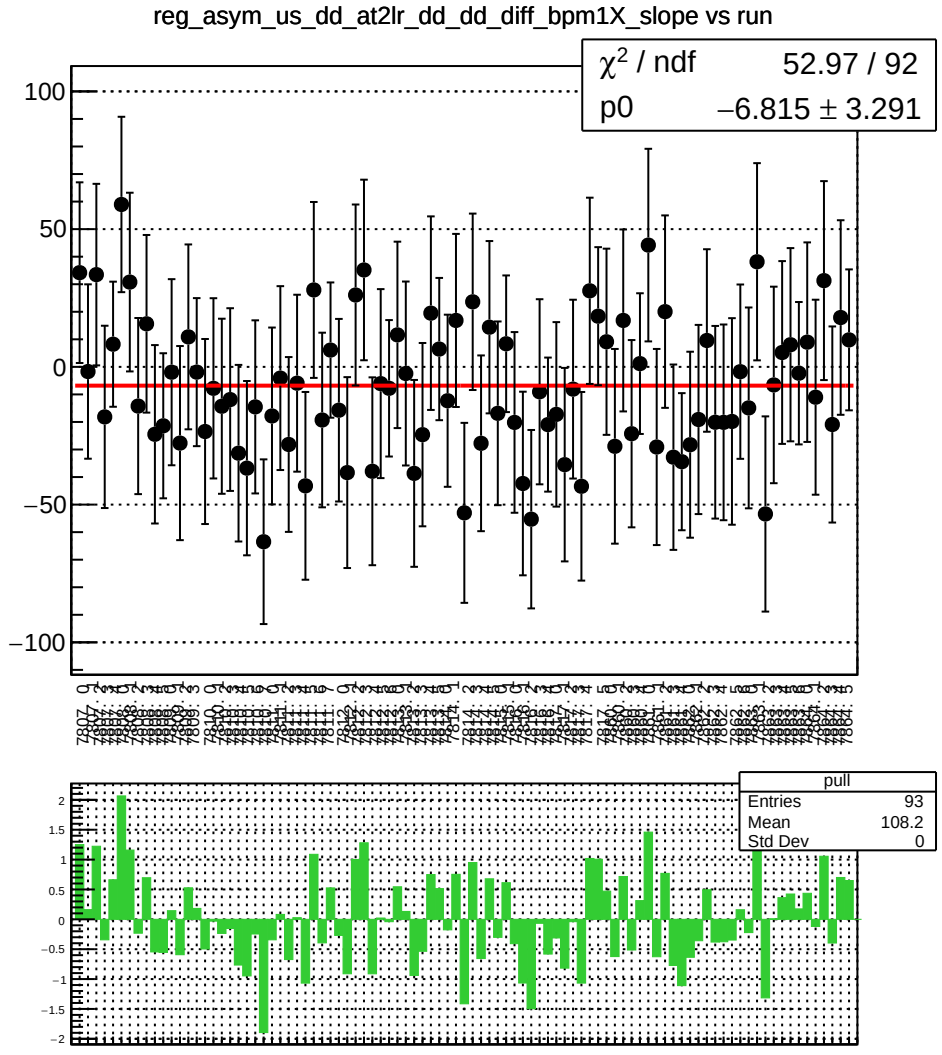

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 19.82 / 92
p0 −131 ± 6.642
pull
Entries 93
Mean −660.6
Std Dev 0

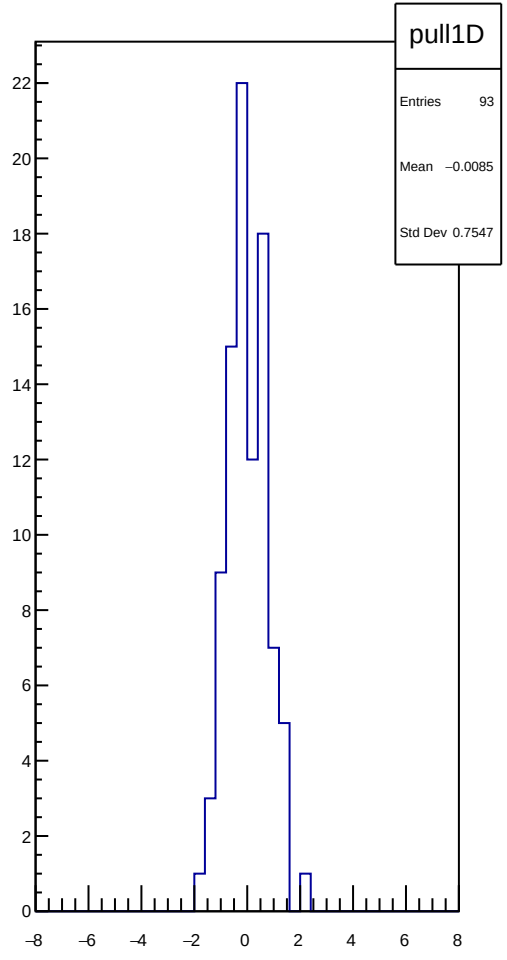

pull1D
Entries 93
Mean −0.001402
Std Dev 0.4617

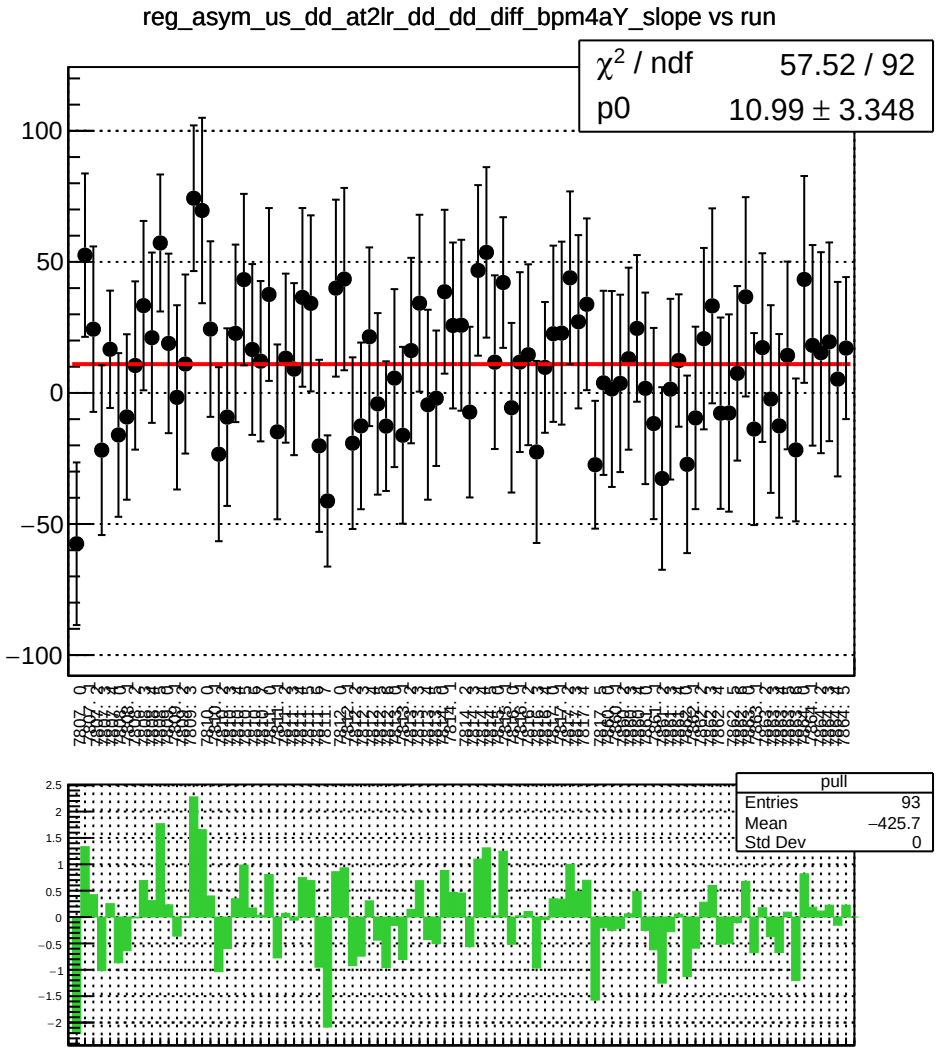

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 24.82 / 92
p0 25.29 ± 8.524
pull
Entries 93
Mean 98.42
Std Dev 0

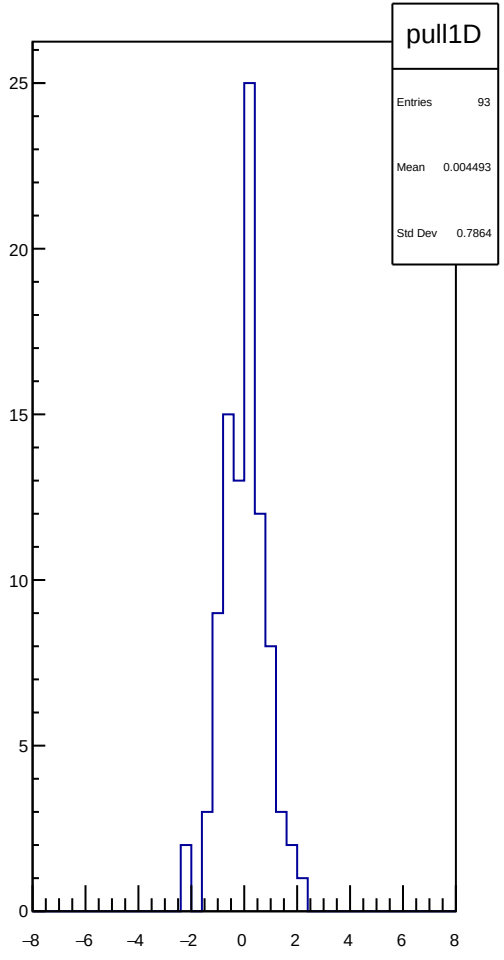

pull1D
Entries 93
Mean 0.008069
Std Dev 0.5165

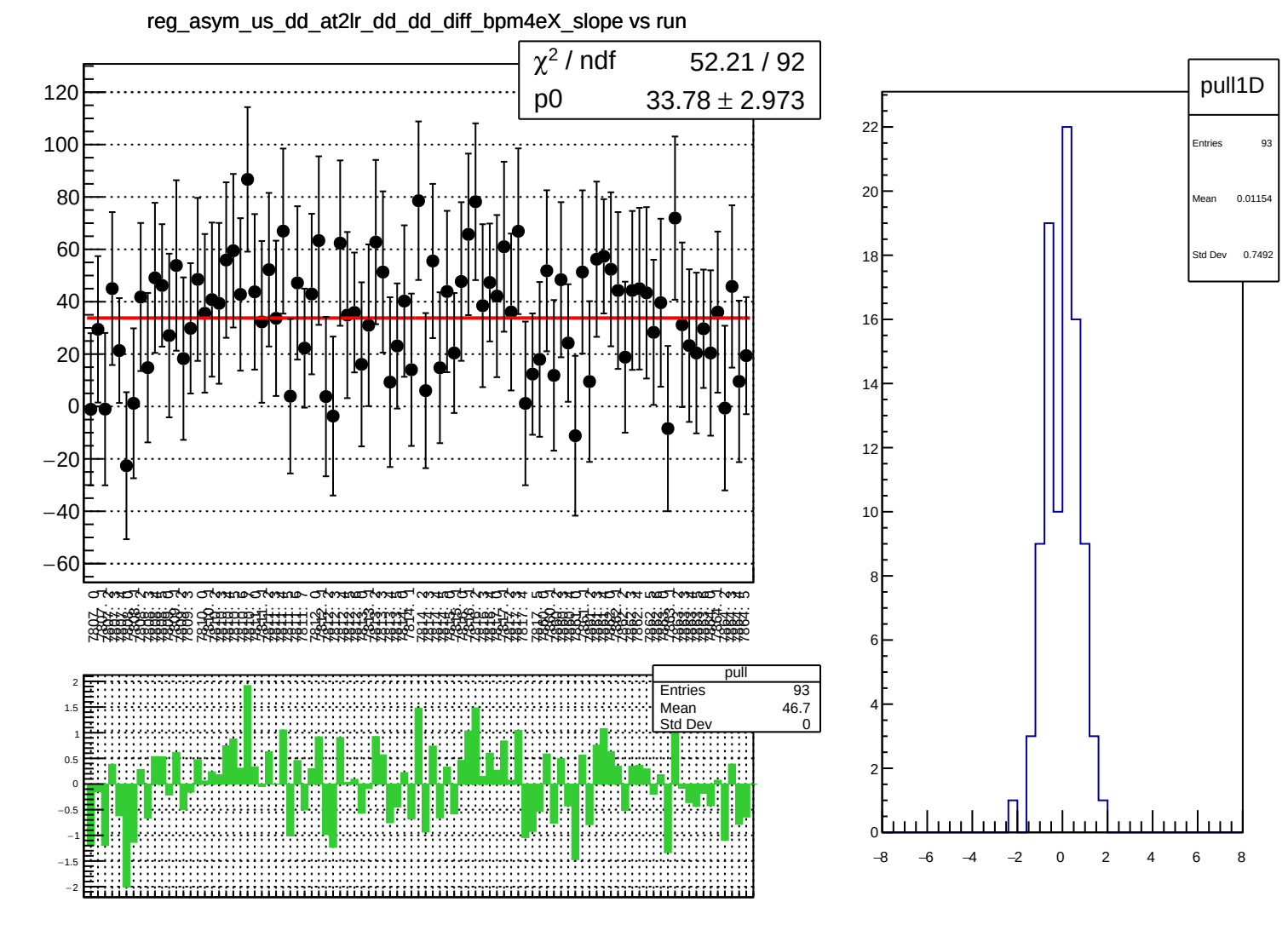

reg_asym_us_dd_at2lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 28.37 / 92
p0 20.82 ± 0.2479
pull
Entries 93
Mean 275.9
Std Dev 0
pull1D
Entries 93
Mean −0.01104
Std Dev 0.5522

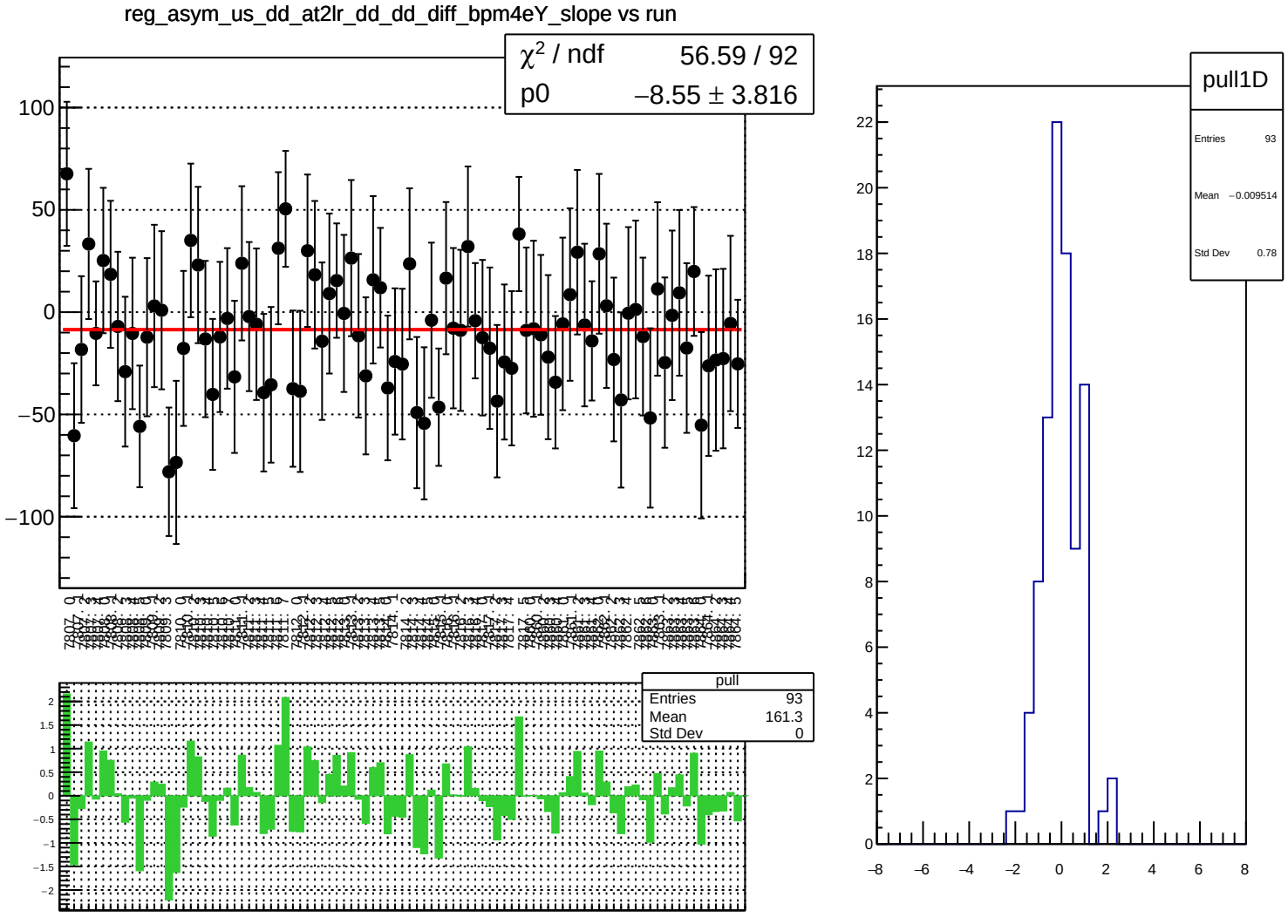

reg_asym_us_dd_at2lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 52.97 / 92
p0 −6.815 ± 3.291
pull
Entries 93
Mean 108.2
Std Dev 0

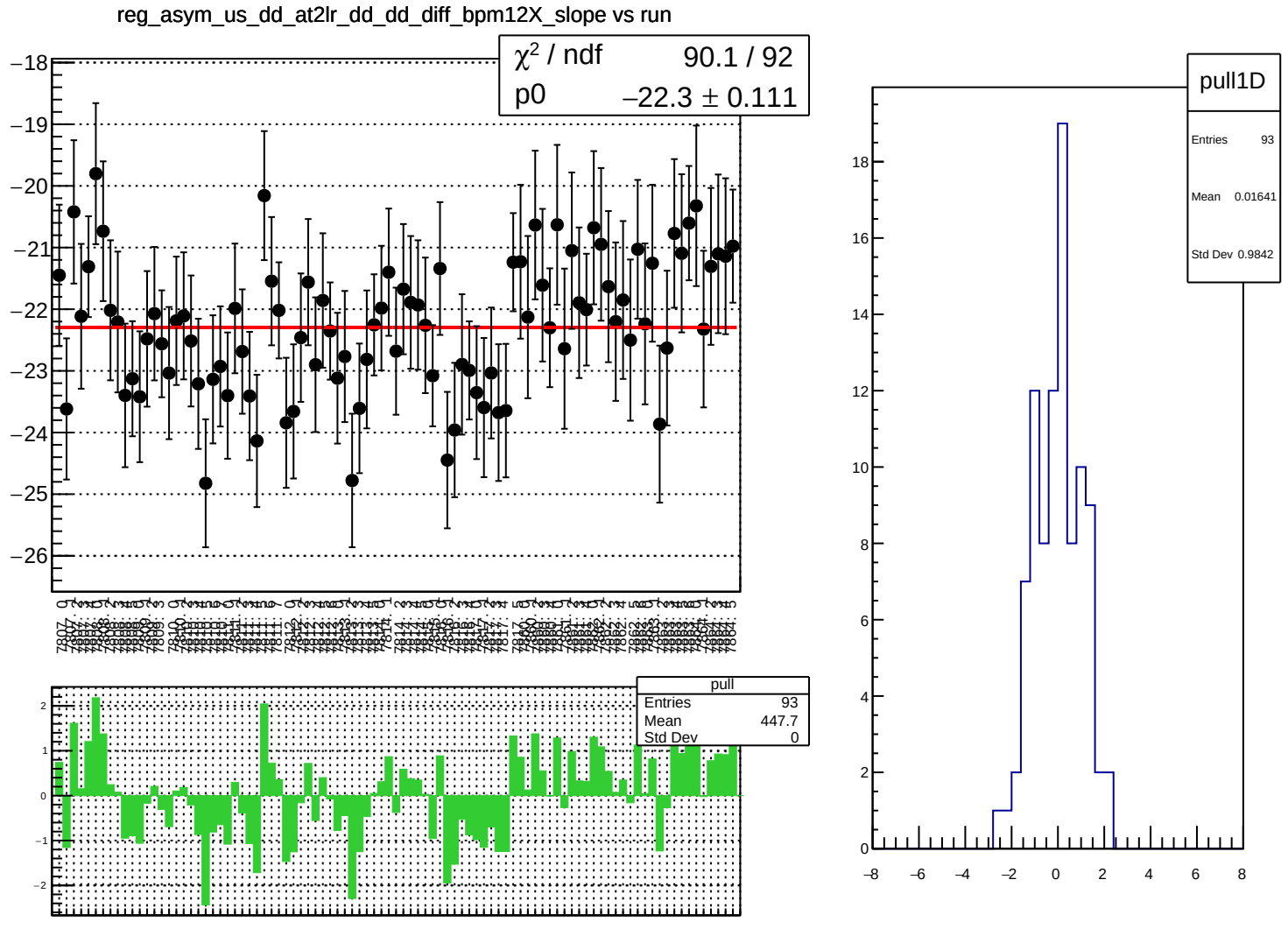

pull1D
Entries 93
Mean −0.0085
Std Dev 0.7547

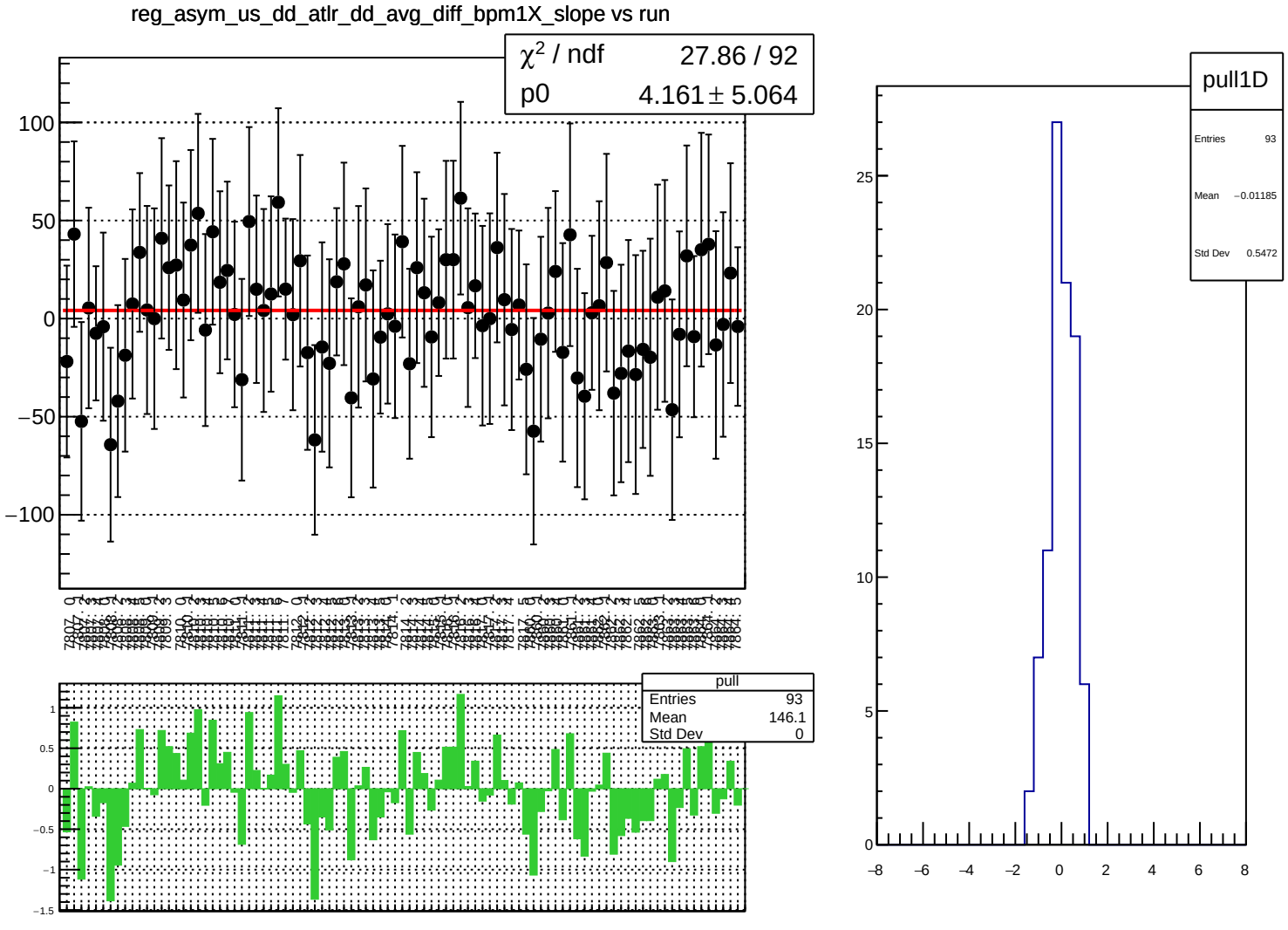

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 57.52 / 92
p0 10.99 ± 3.348
100
50
0
−50
−100
pull
Entries 93
Mean −425.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

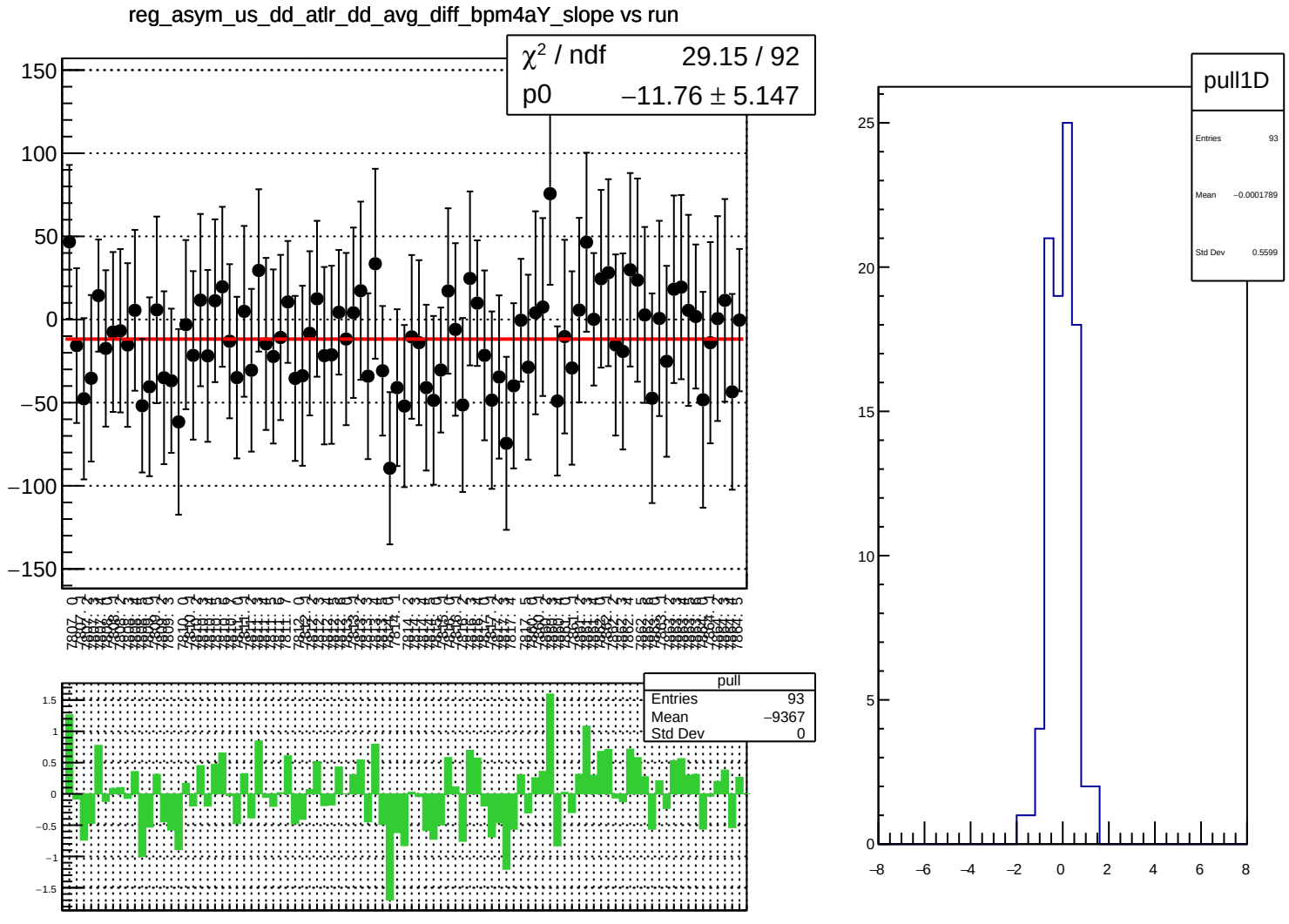

pull1D
Entries 93
Mean 0.004493
Std Dev 0.7864
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

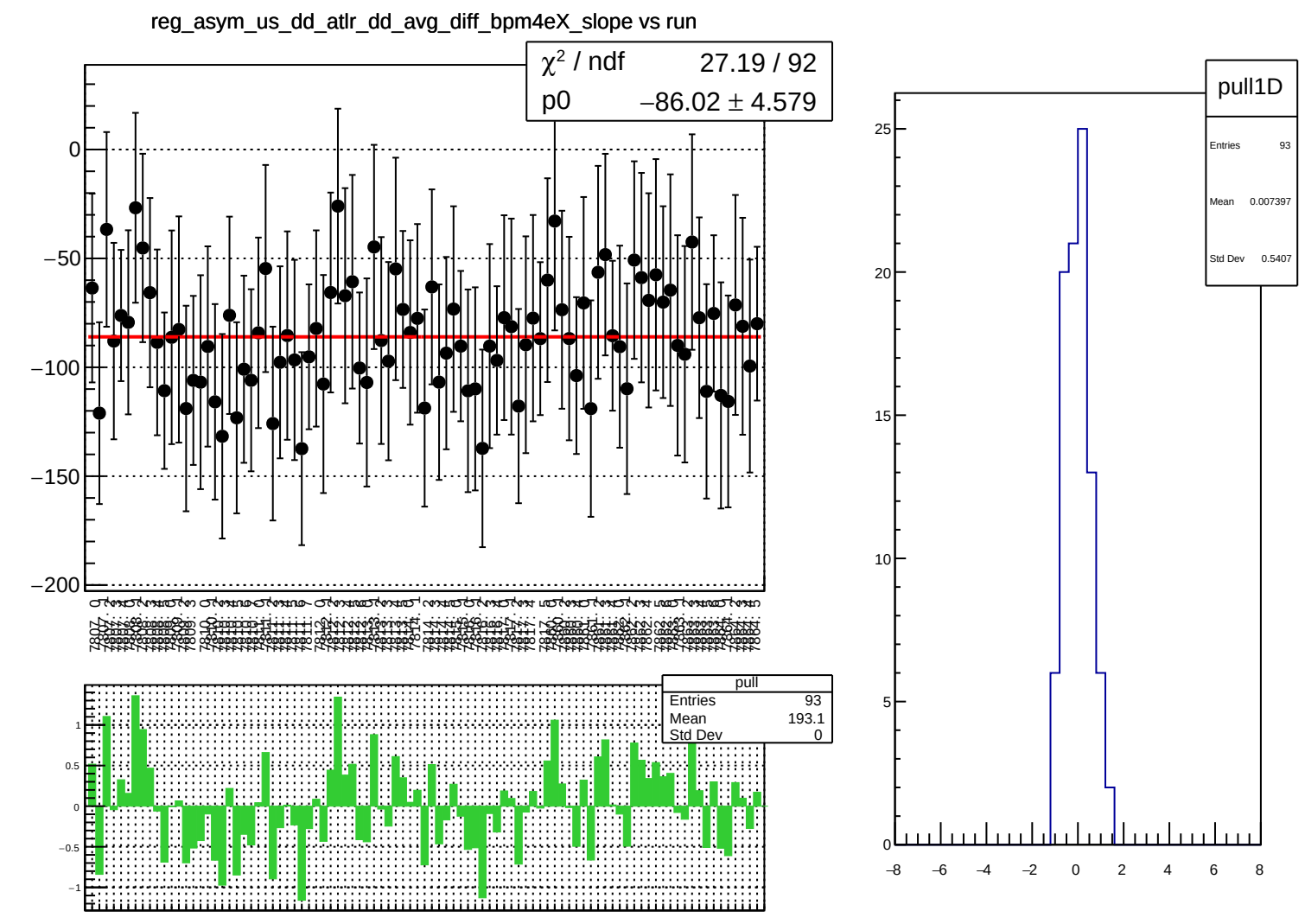

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 52.21 / 92
p0 33.78 ± 2.973
pull
Entries 93
Mean 46.7
Std Dev 0
pull1D
Entries 93
Mean 0.01154
Std Dev 0.7492

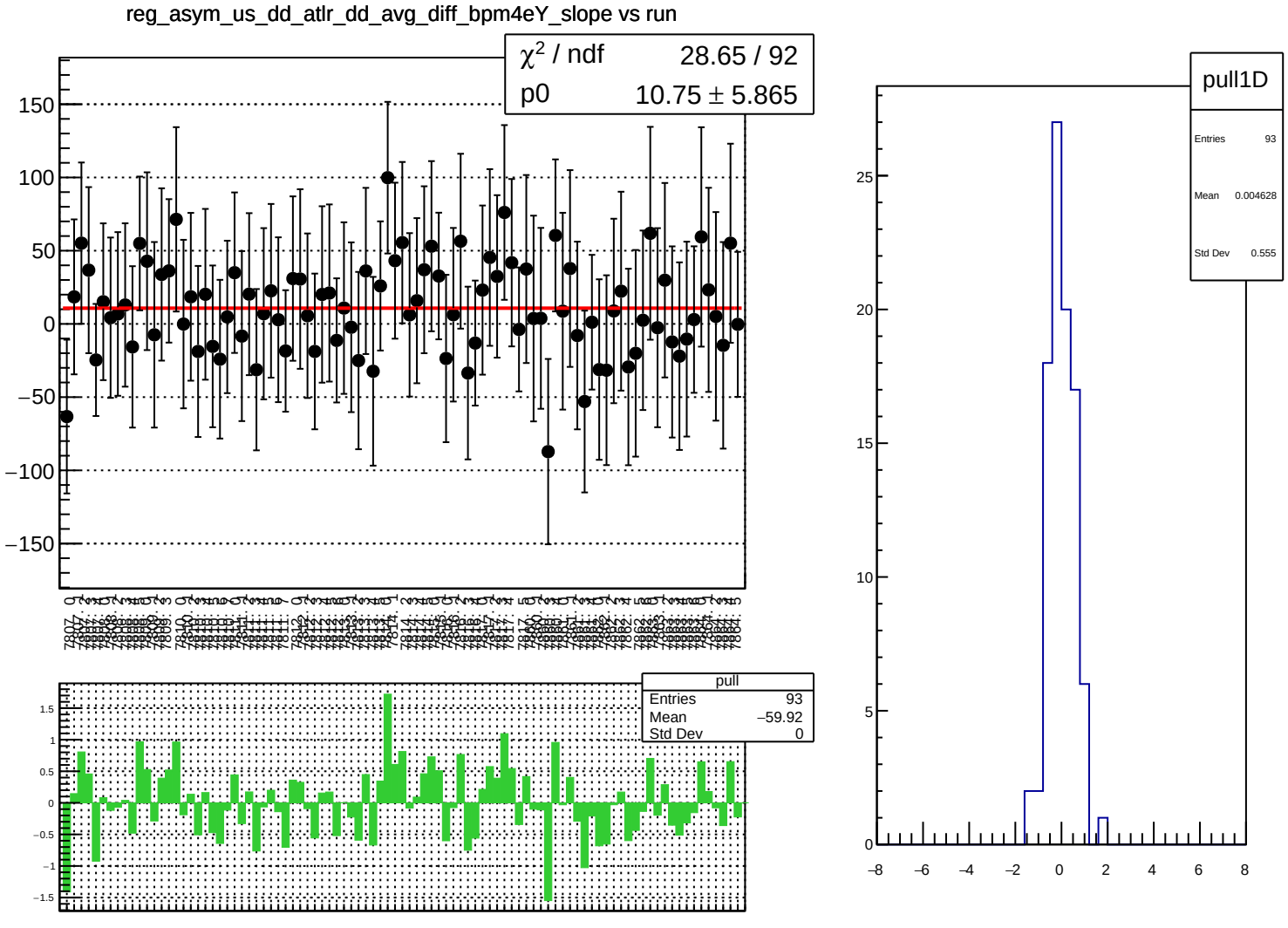

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 56.59 / 92
p0 −8.55 ± 3.816
100
50
0
−50
−100
pull
Entries 93
Mean 161.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean −0.009514
Std Dev 0.78
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

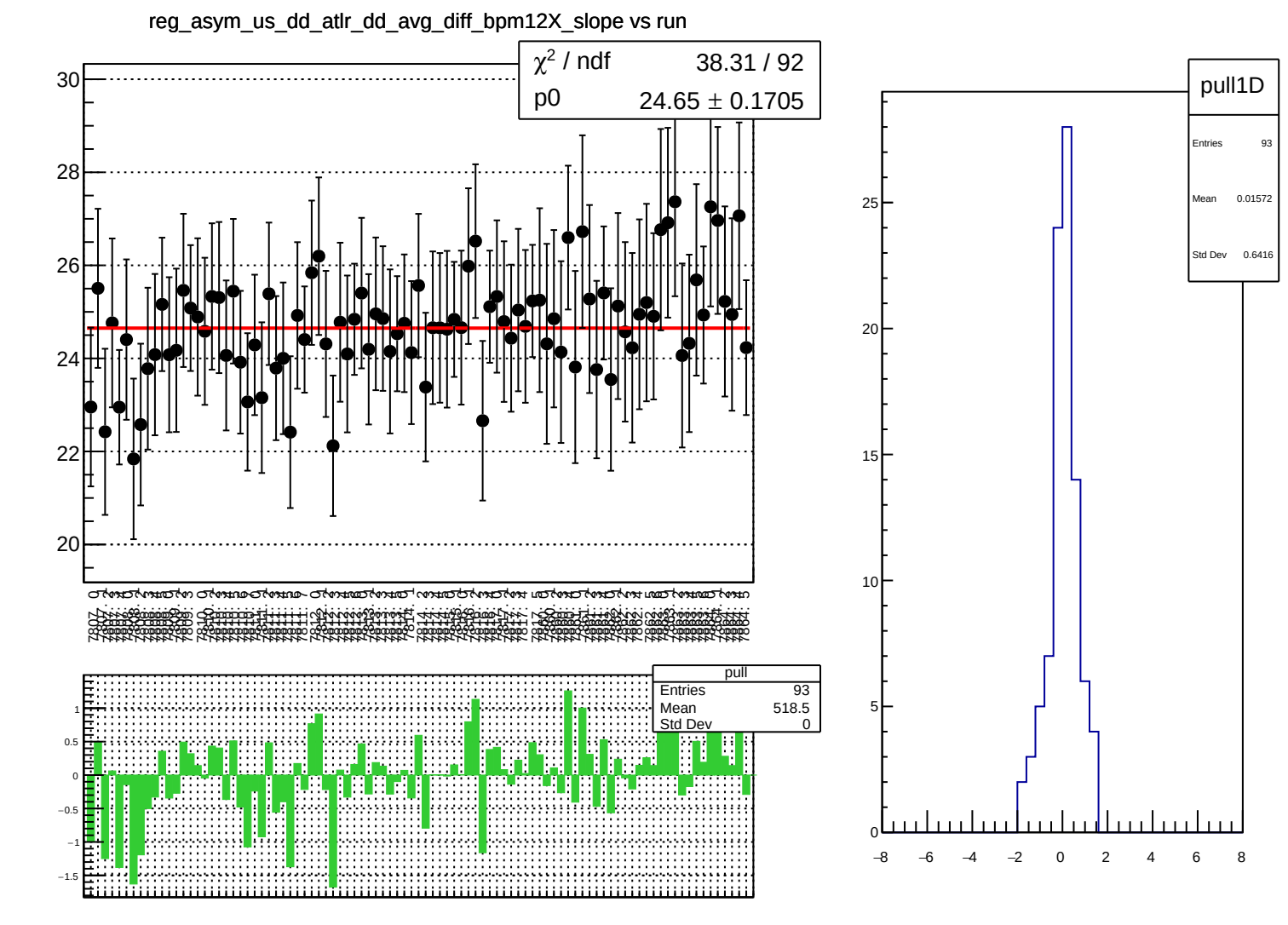

reg_asym_us_dd_at2lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 90.1 / 92
p0 −22.3 ± 0.111
pull
Entries 93
Mean 447.7
Std Dev 0
pull1D
Entries 93
Mean 0.01641
Std Dev 0.9842

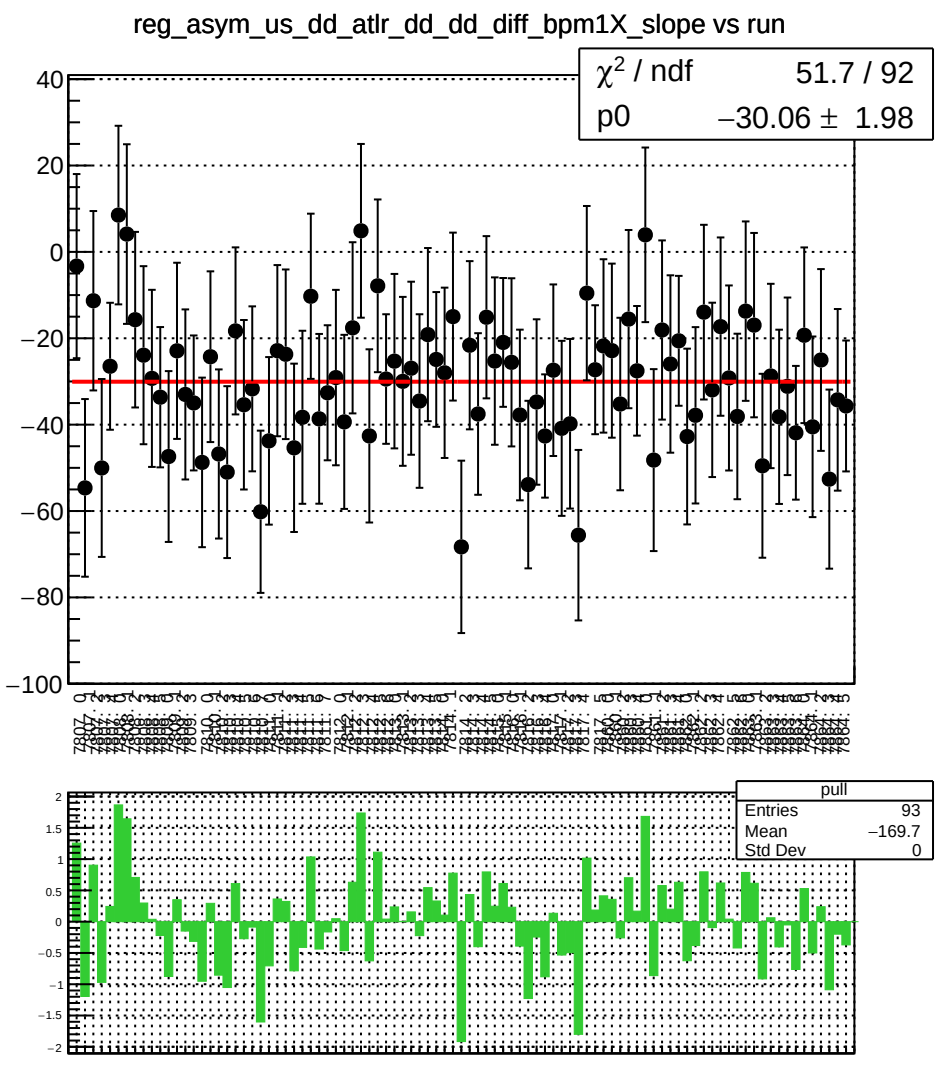

reg_asym_us_dd_atlr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 27.86 / 92
p0 4.161 ± 5.064
100
50
0
−50
−100
pull
Entries 93
Mean 146.1
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 93
Mean −0.01185
Std Dev 0.5472
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

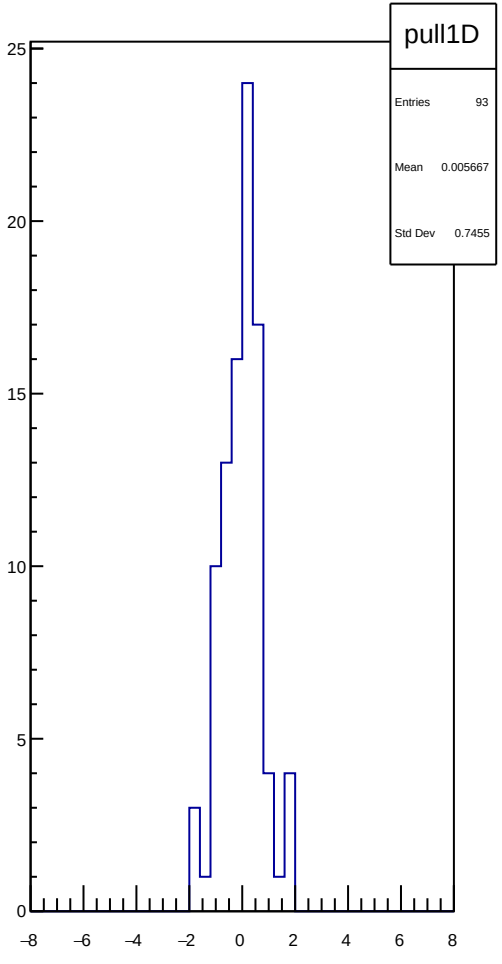

reg_asym_us_dd_atlr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 29.15 / 92
p0 −11.76 ± 5.147
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean −9367
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 93
Mean −0.0001789
Std Dev 0.5599
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

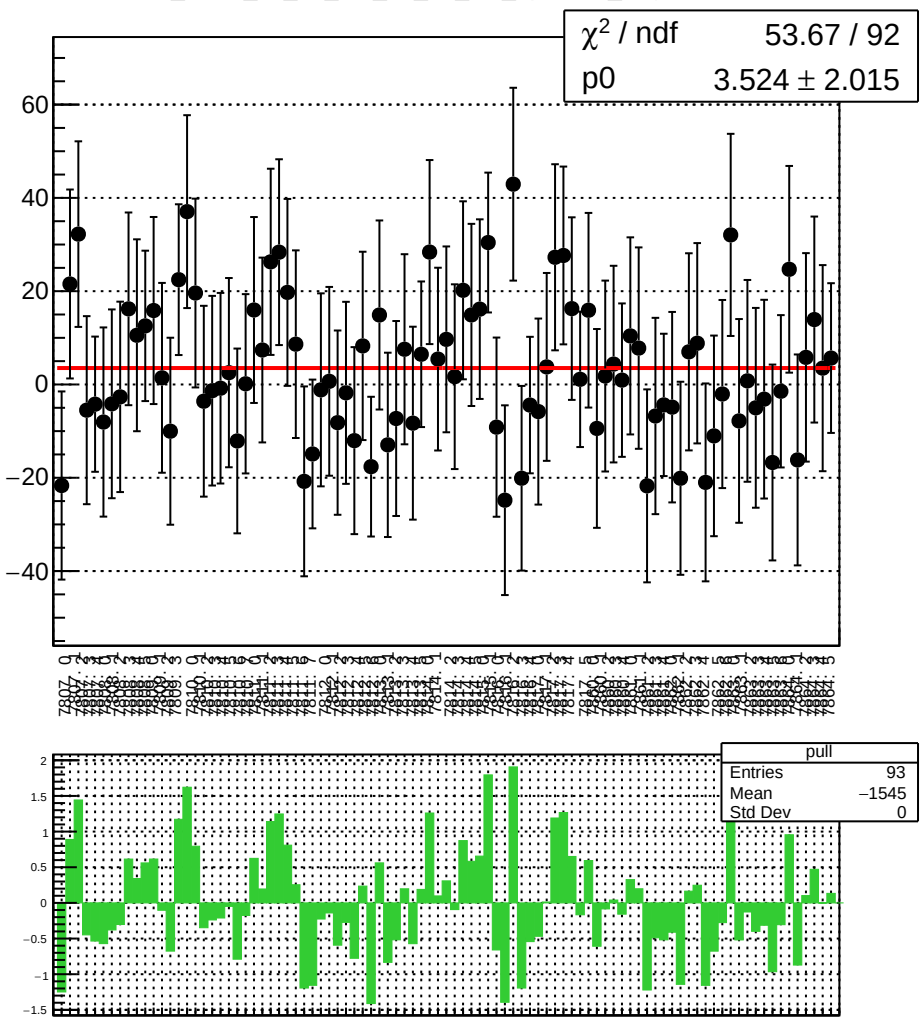

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 27.19 / 92
p0 −86.02 ± 4.579
0
−50
−100
−150
−200
pull
Entries 93
Mean 193.1
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 93
Mean 0.007397
Std Dev 0.5407
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

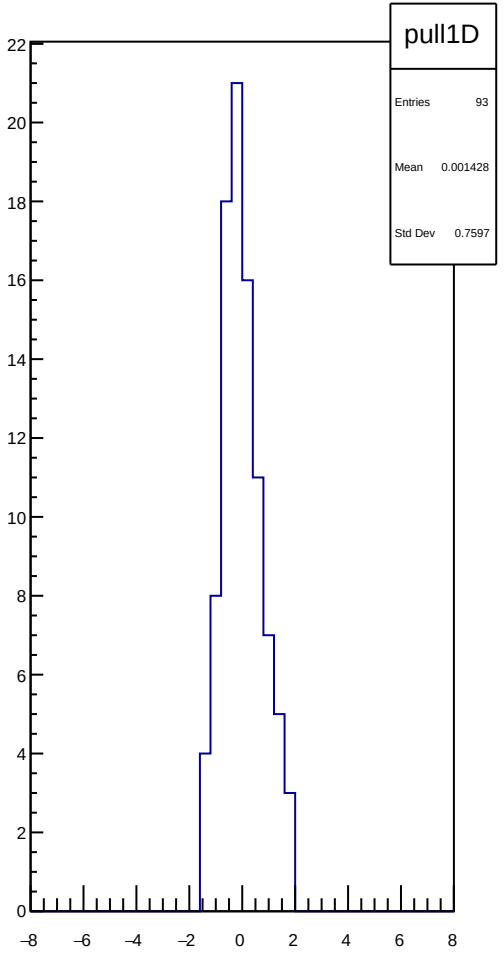

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 28.65 / 92
p0 10.75 ± 5.865
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean −59.92
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 93
Mean 0.004628
Std Dev 0.555
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

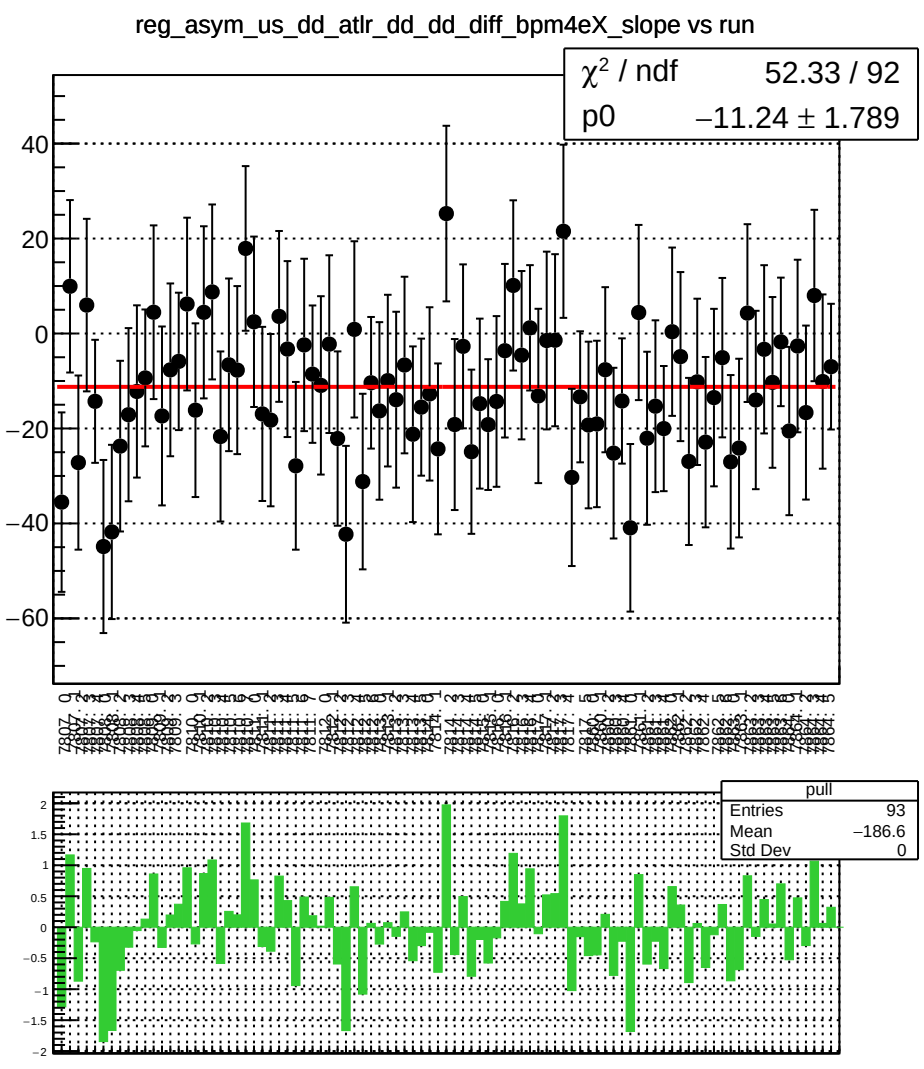

reg_asym_us_dd_atlr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 38.31 / 92
p0 24.65 ± 0.1705
pull
Entries 93
Mean 518.5
Std Dev 0
pull1D
Entries 93
Mean 0.01572
Std Dev 0.6416

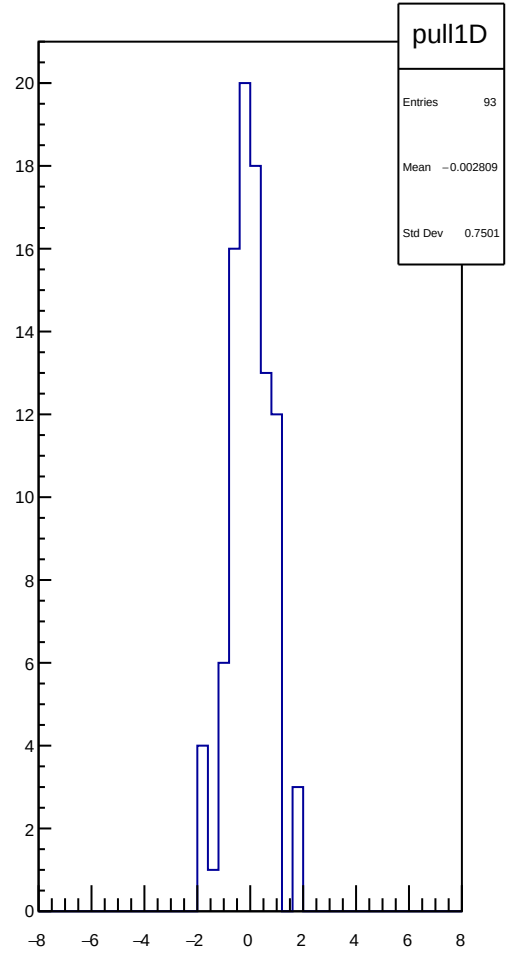

reg_asym_us_dd_atlr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 51.7 / 92
p0 −30.06 ± 1.98
pull
Entries 93
Mean −169.7
Std Dev 0

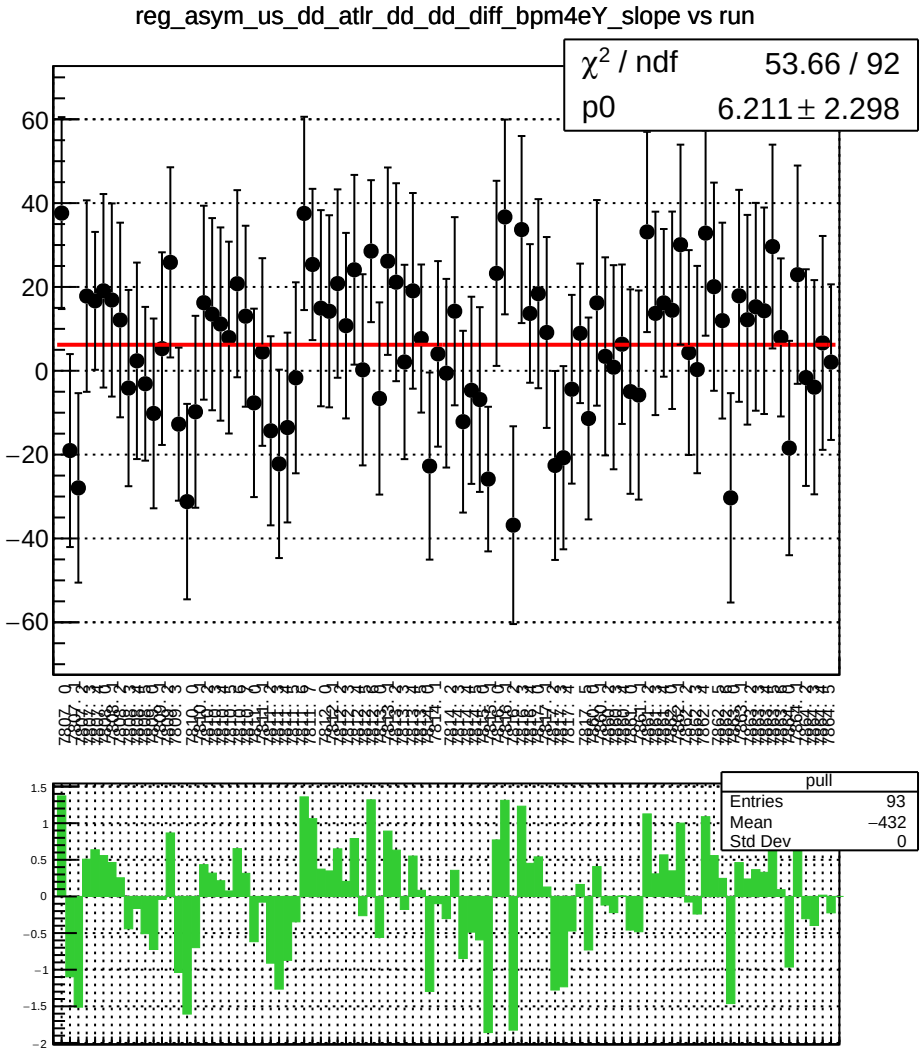

pull1D
Entries 93
Mean 0.005667
Std Dev 0.7455

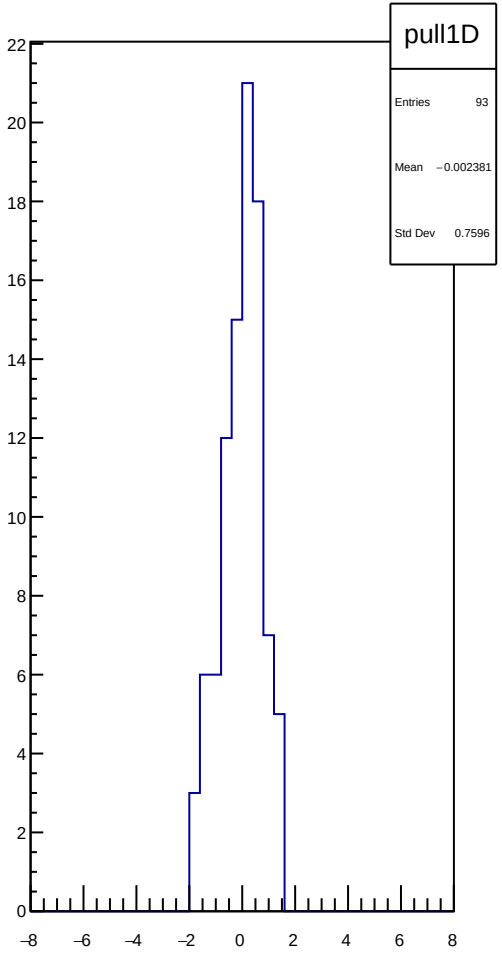

reg_asym_us_dd_atlr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 53.67 / 92
p0 3.524 ± 2.015
pull
Entries 93
Mean −1545
Std Dev 0

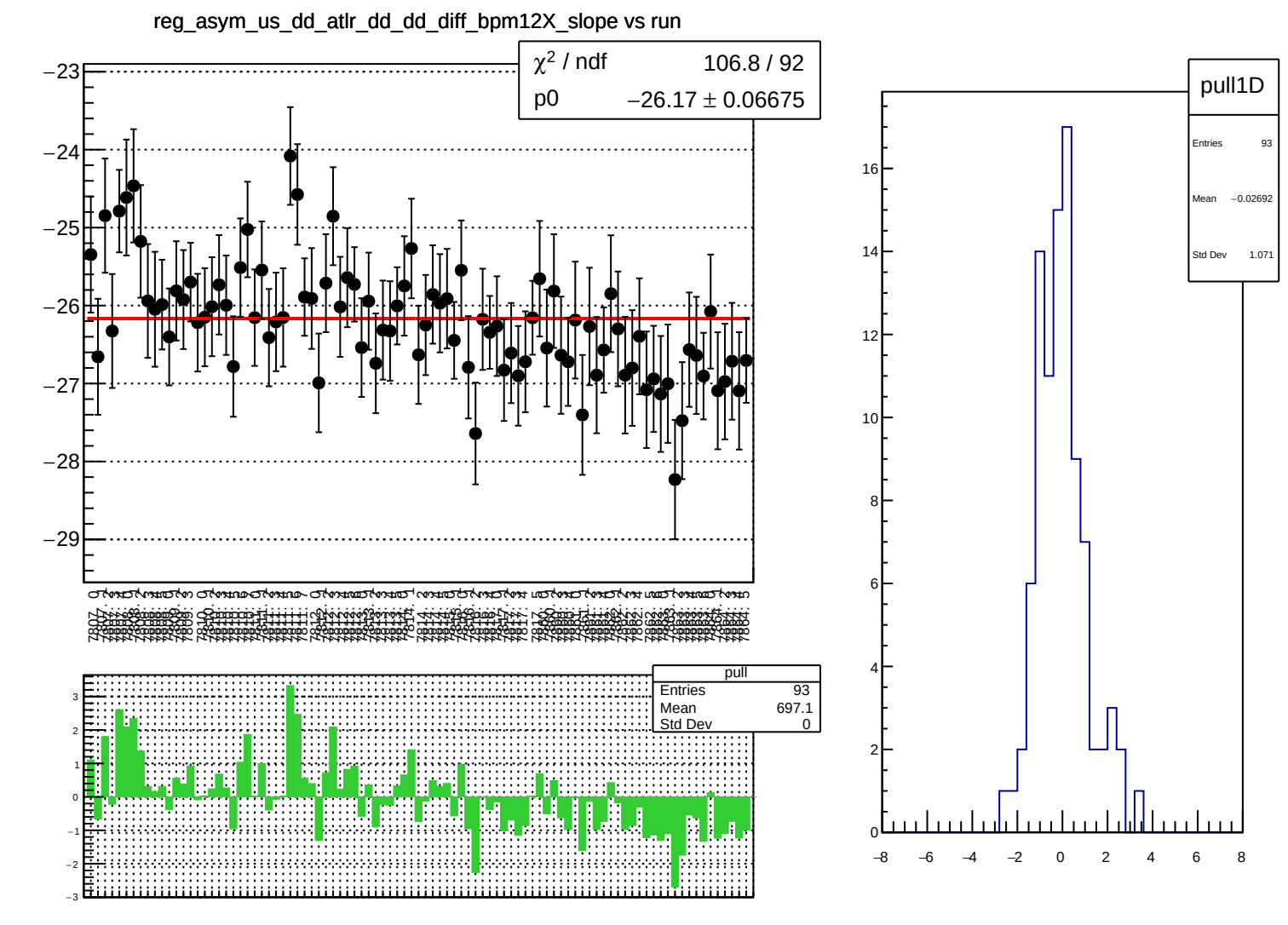

pull1D
Entries 93
Mean 0.001428
Std Dev 0.7597

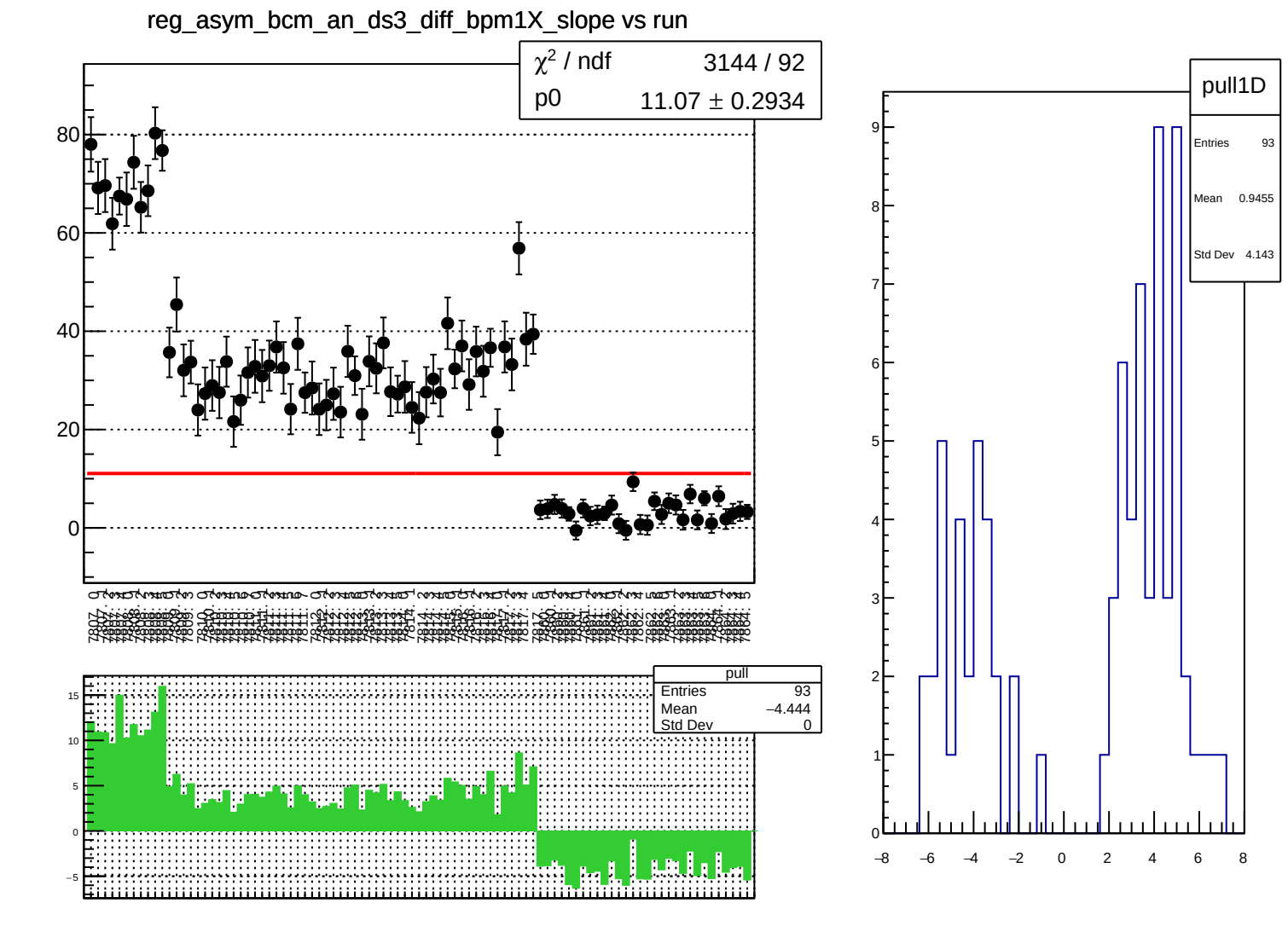

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 52.33 / 92
p0 −11.24 ± 1.789
pull
Entries 93
Mean −186.6
Std Dev 0

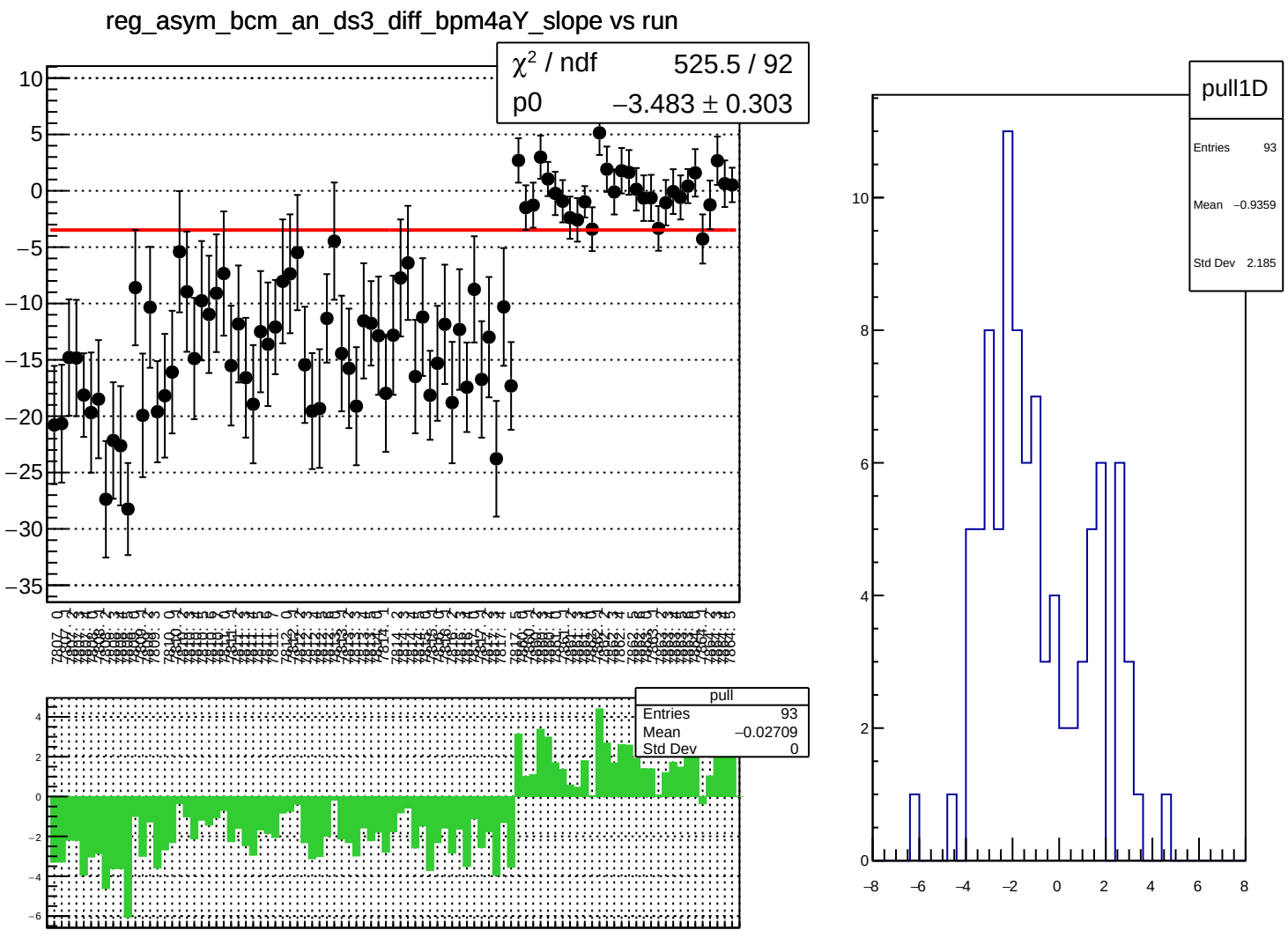

pull1D
Entries 93
Mean −0.002809
Std Dev 0.7501

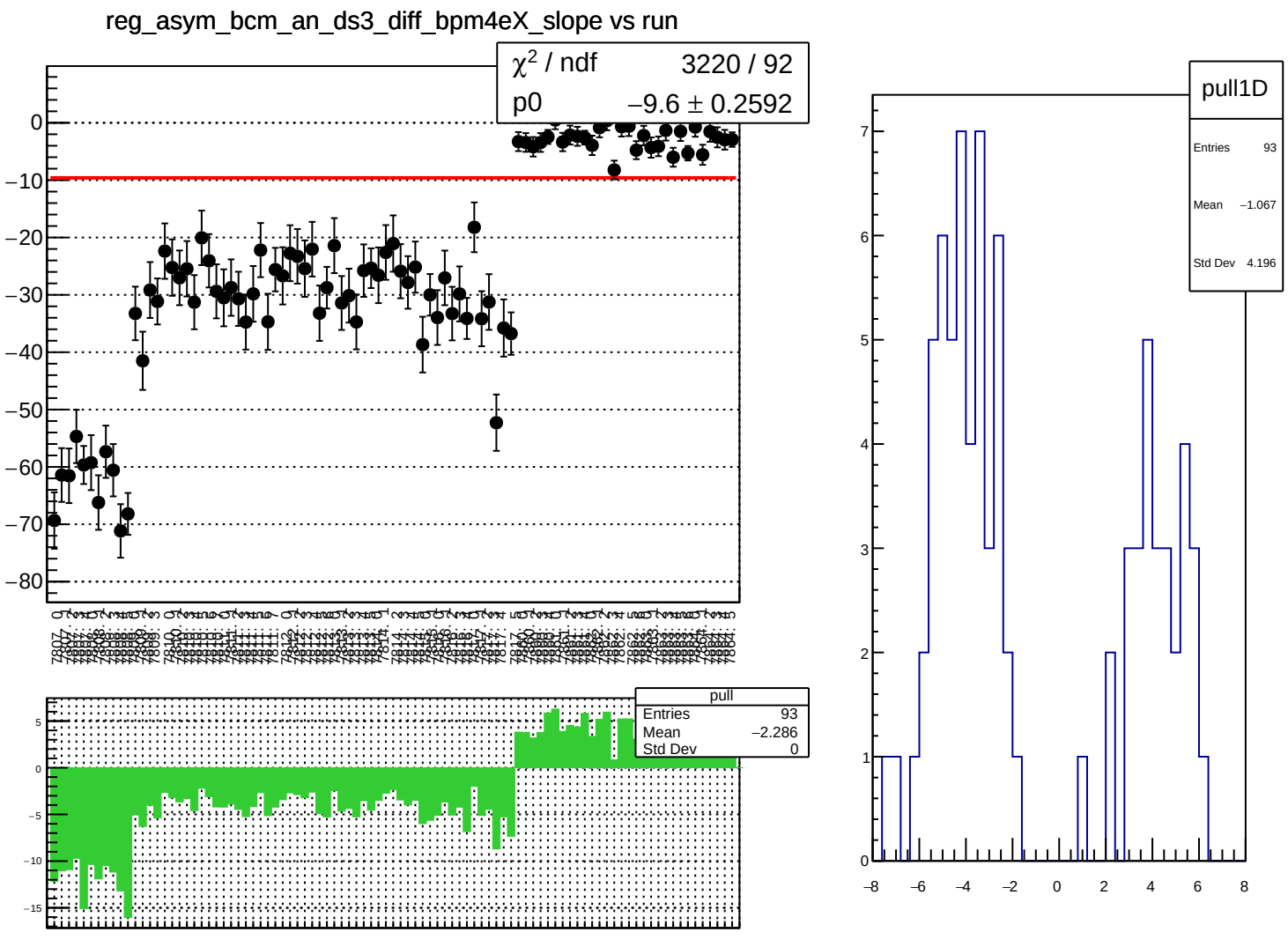

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 53.66 / 92
p0 6.211 ± 2.298
pull
Entries 93
Mean −432
Std Dev 0

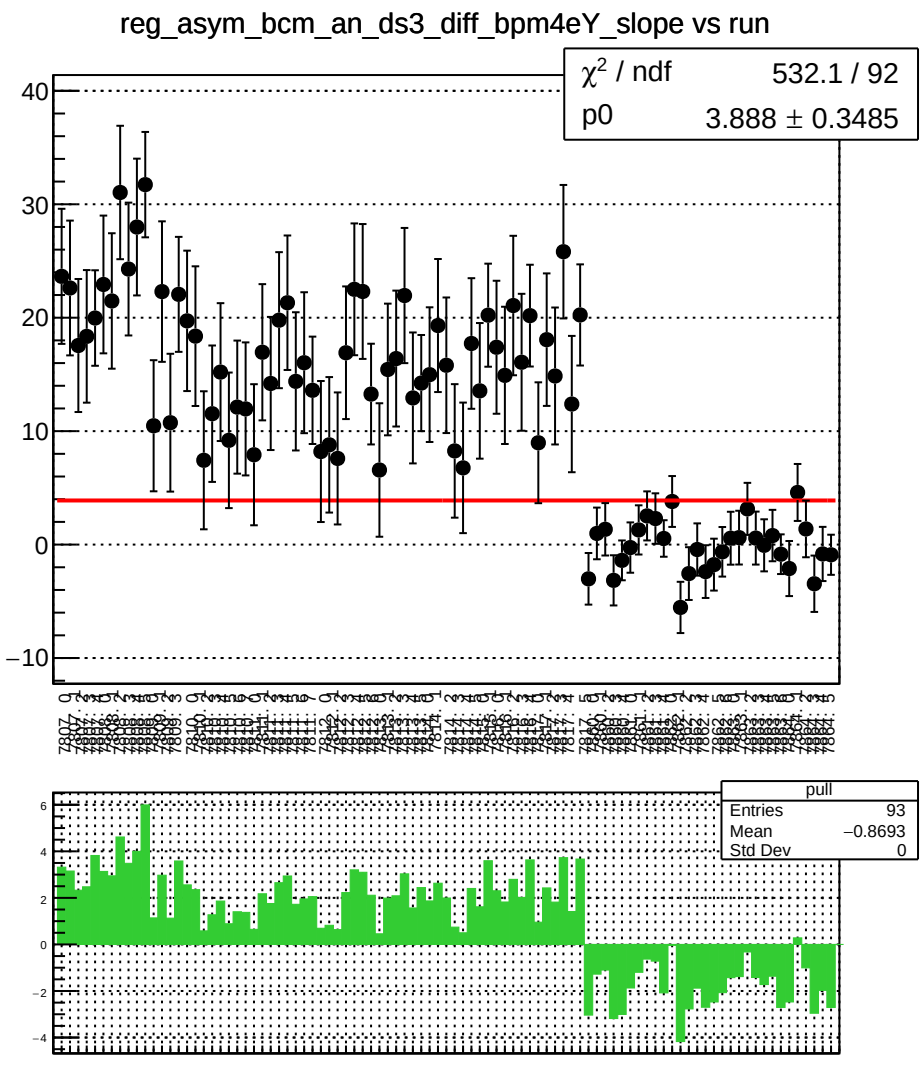

pull1D
Entries 93
Mean −0.002381
Std Dev 0.7596

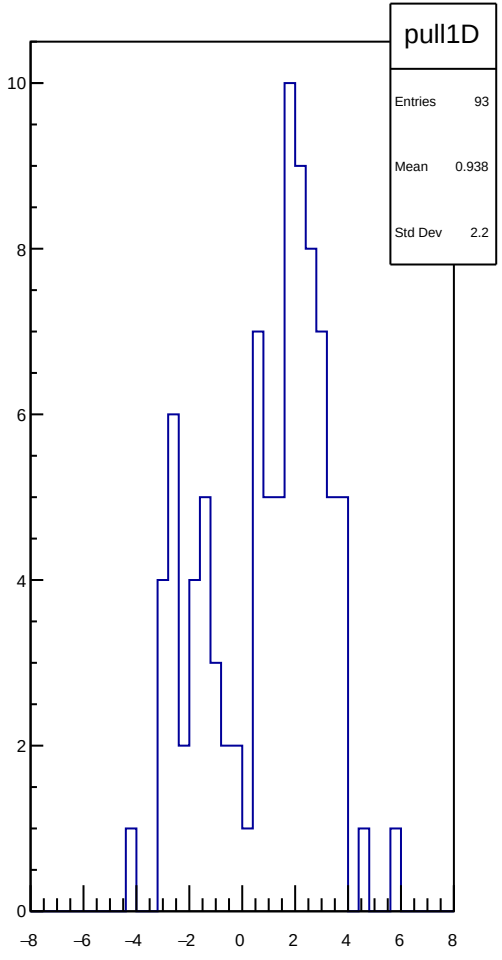

reg_asym_us_dd_atlr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 106.8 / 92
p0 −26.17 ± 0.06675
pull
Entries 93
Mean 697.1
Std Dev 0
pull1D
Entries 93
Mean −0.02692
Std Dev 1.071

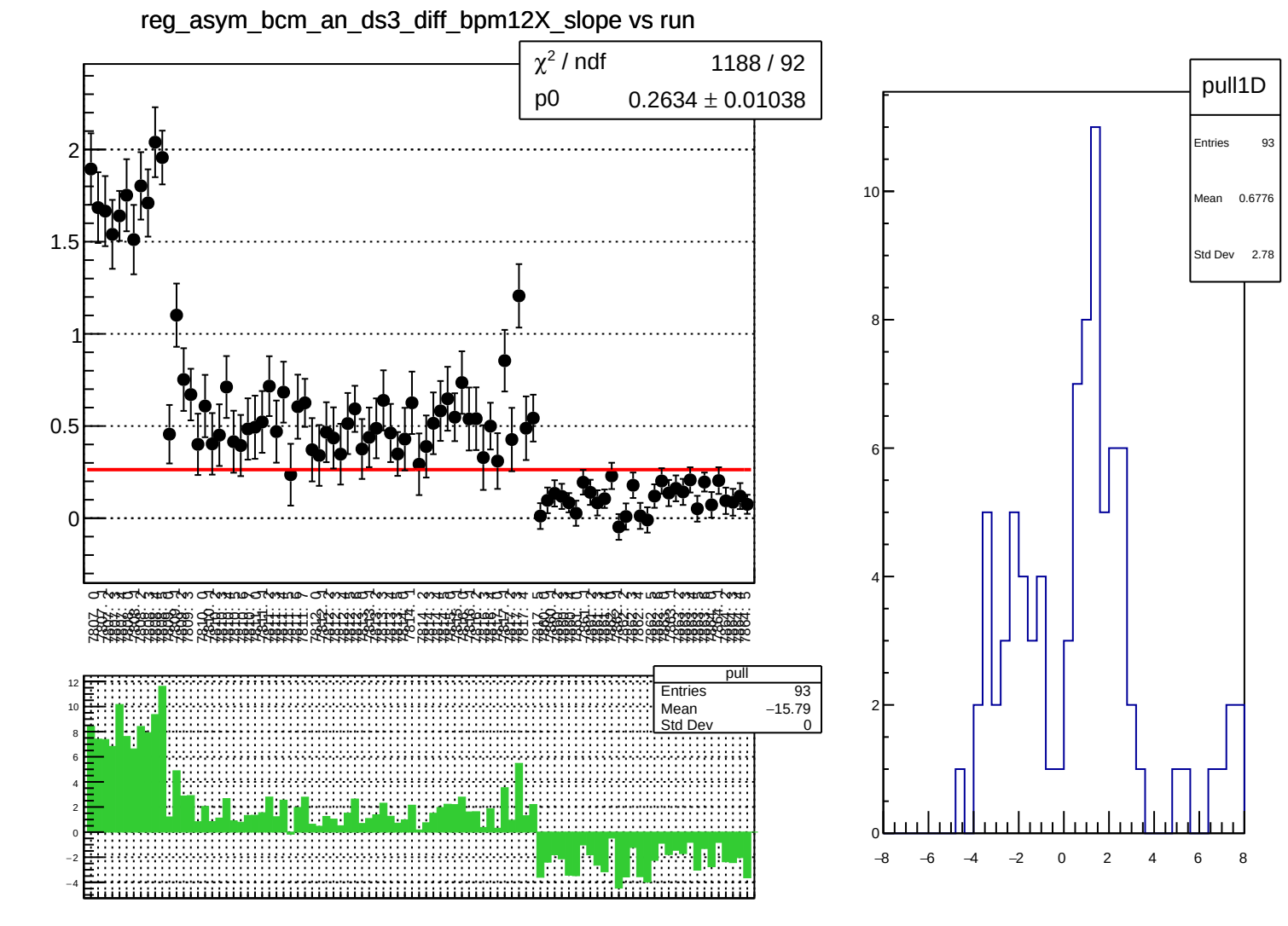

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 3144 / 92
p0 11.07 ± 0.2934
pull
Entries 93
Mean −4.444
Std Dev 0
pull1D
Entries 93
Mean 0.9455
Std Dev 4.143

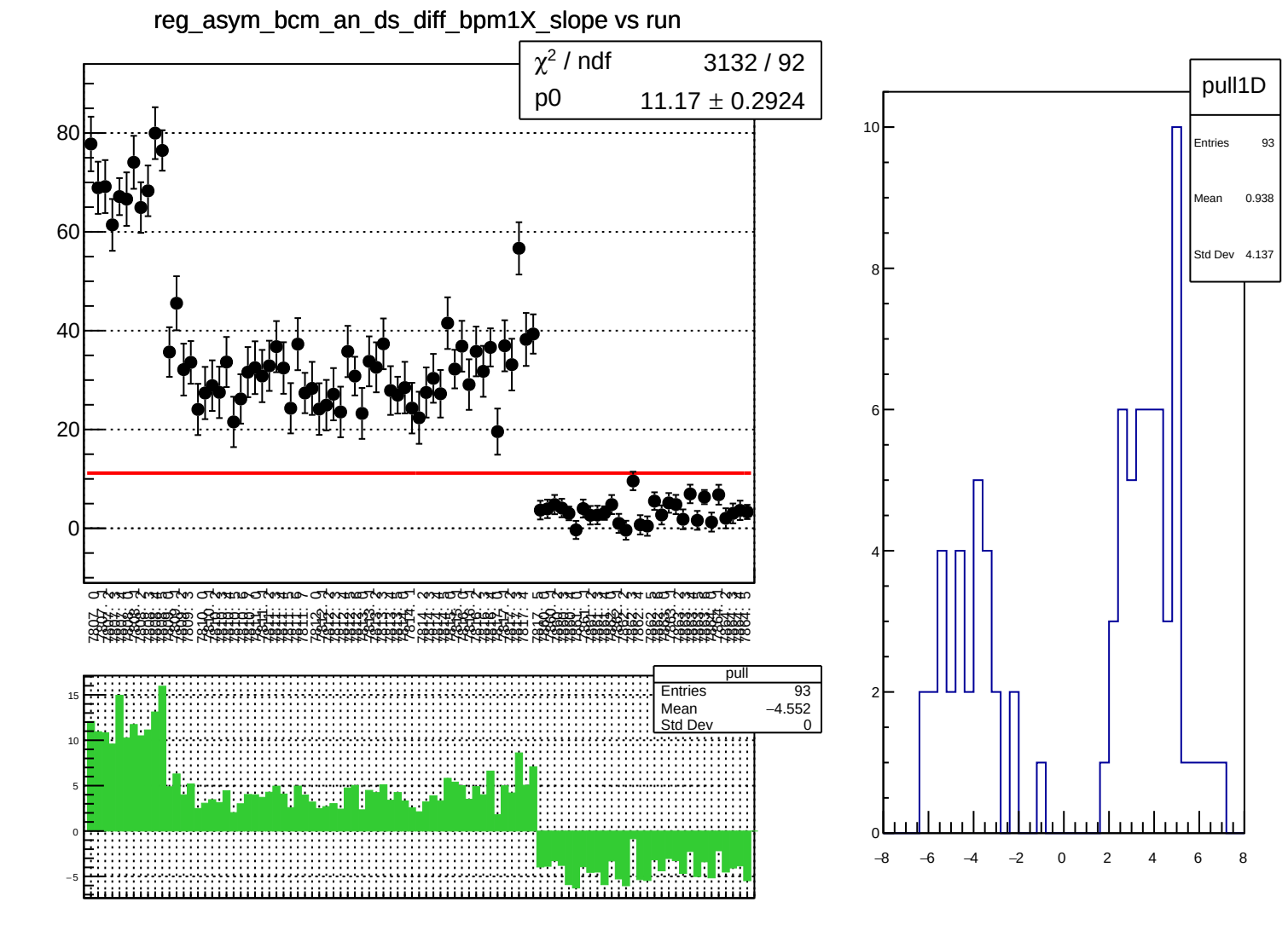

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 525.5 / 92
p0 −3.483 ± 0.303
pull
Entries 93
Mean −0.02709
Std Dev 0
pull1D
Entries 93
Mean −0.9359
Std Dev 2.185

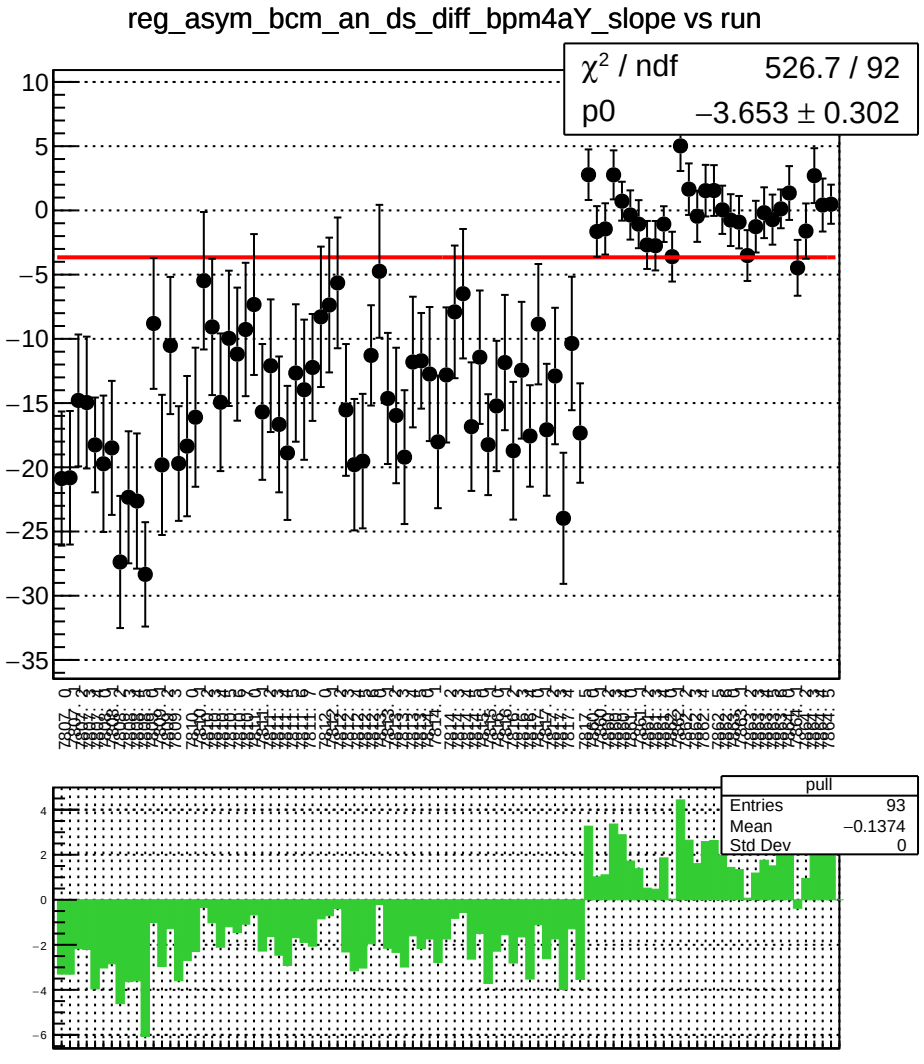

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 3220 / 92
p0 −9.6 ± 0.2592
pull
Entries 93
Mean −2.286
Std Dev 0
pull1D
Entries 93
Mean −1.067
Std Dev 4.196

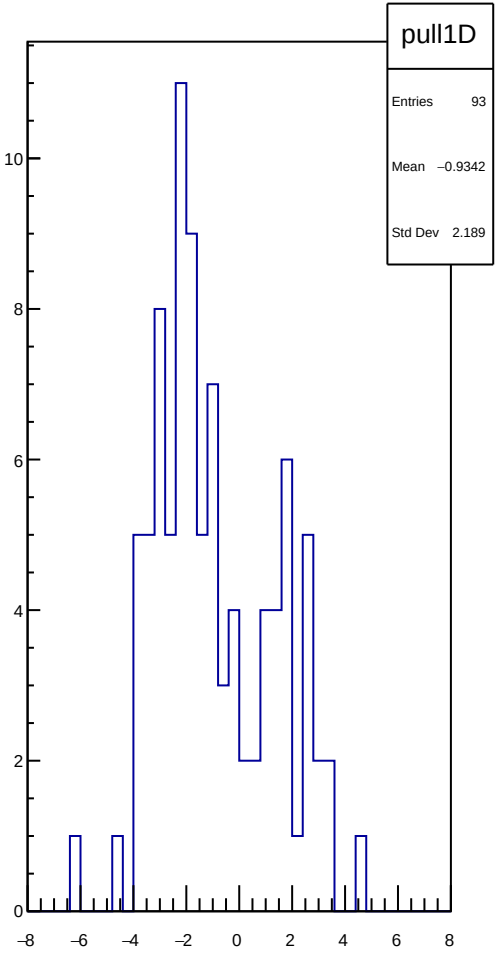

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 532.1 / 92
p0 3.888 ± 0.3485
pull
Entries 93
Mean −0.8693
Std Dev 0

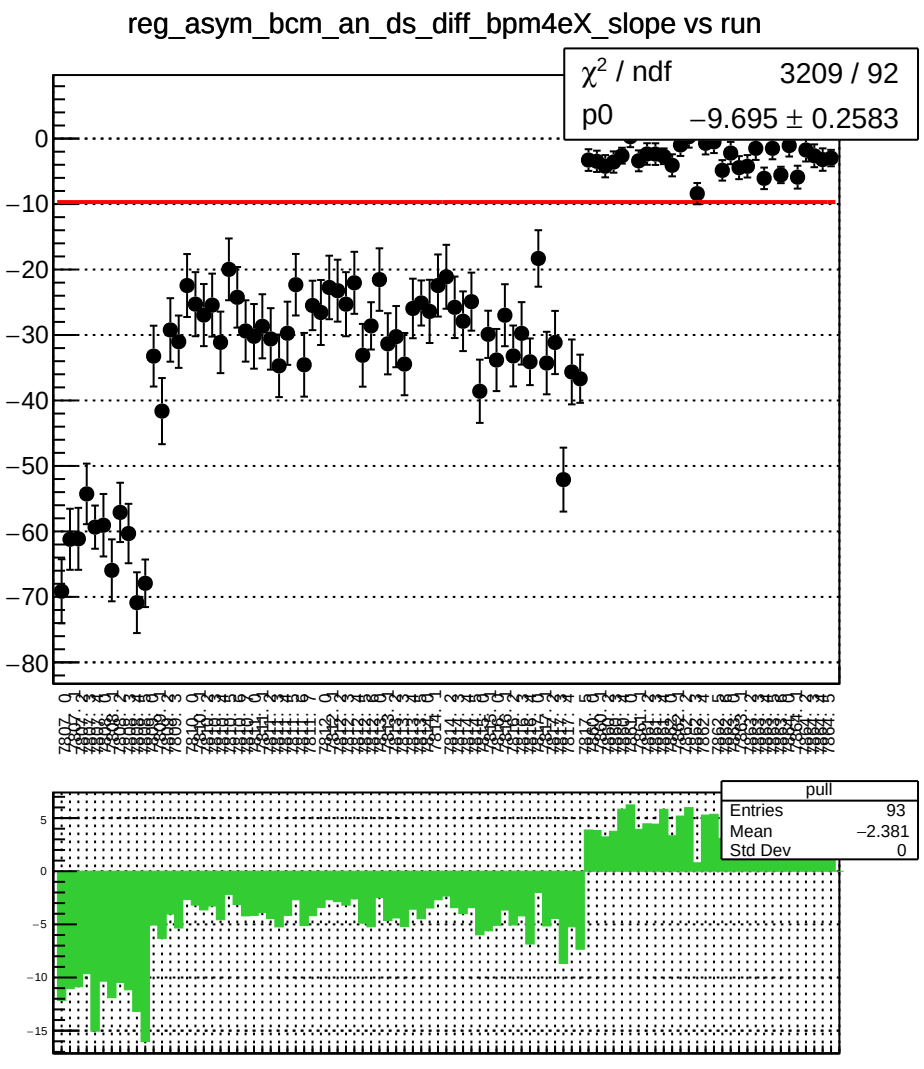

pull1D
Entries 93
Mean 0.938
Std Dev 2.2

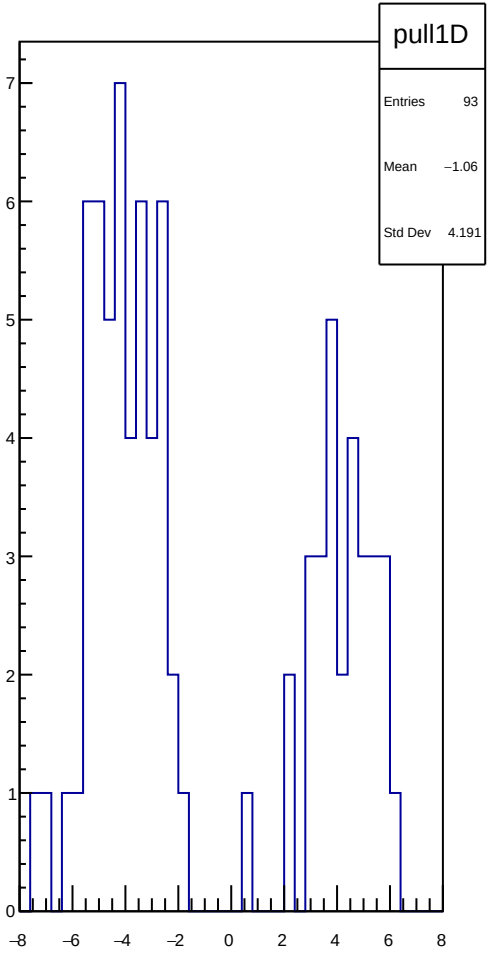

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 1188 / 92
p0 0.2634 ± 0.01038
pull
Entries 93
Mean −15.79
Std Dev 0
pull1D
Entries 93
Mean 0.6776
Std Dev 2.78

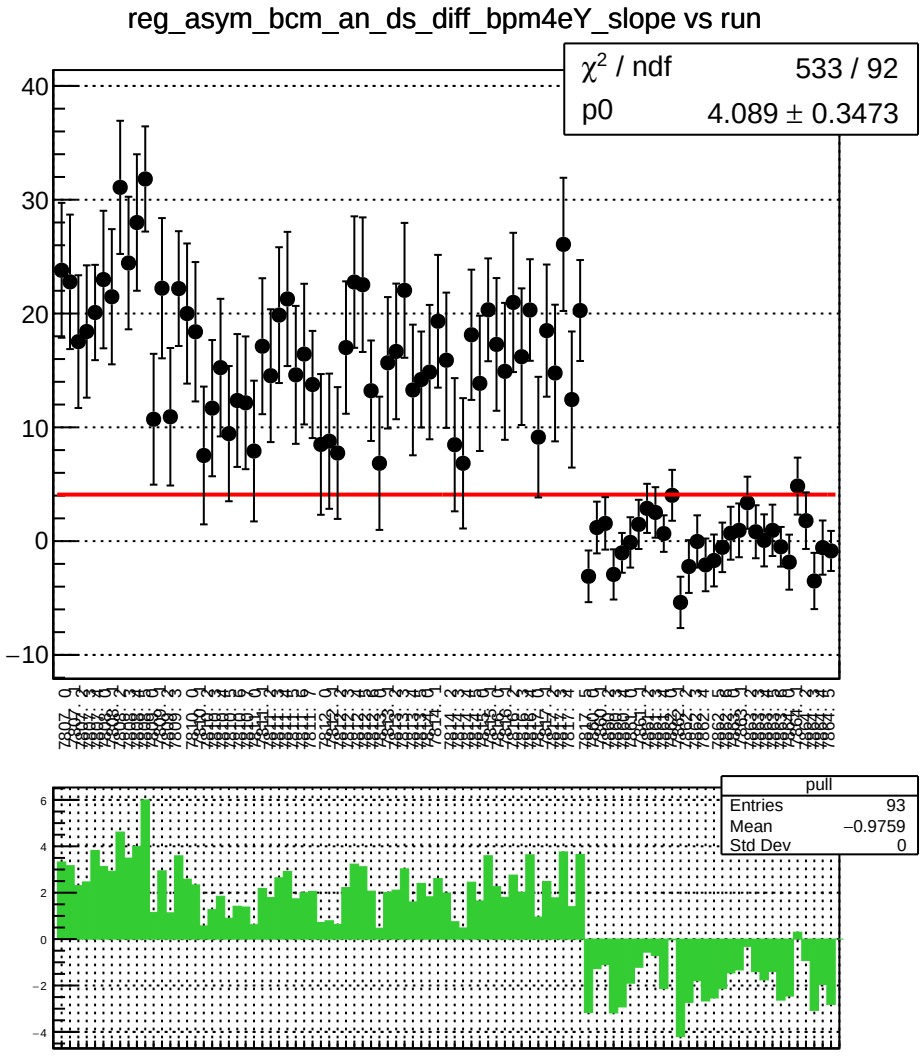

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 3132 / 92
p0 11.17 ± 0.2924
pull
Entries 93
Mean −4.552
Std Dev 0
pull1D
Entries 93
Mean 0.938
Std Dev 4.137

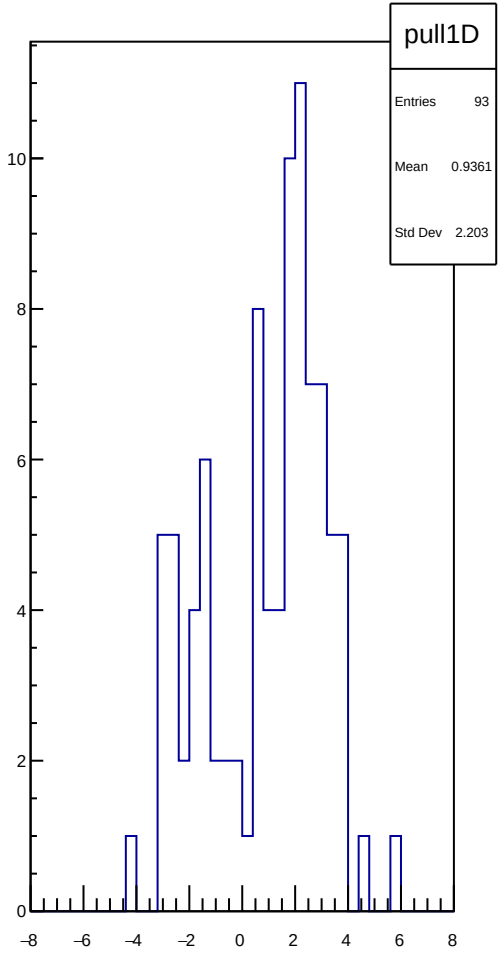

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 526.7 / 92
p0 −3.653 ± 0.302
pull
Entries 93
Mean −0.1374
Std Dev 0

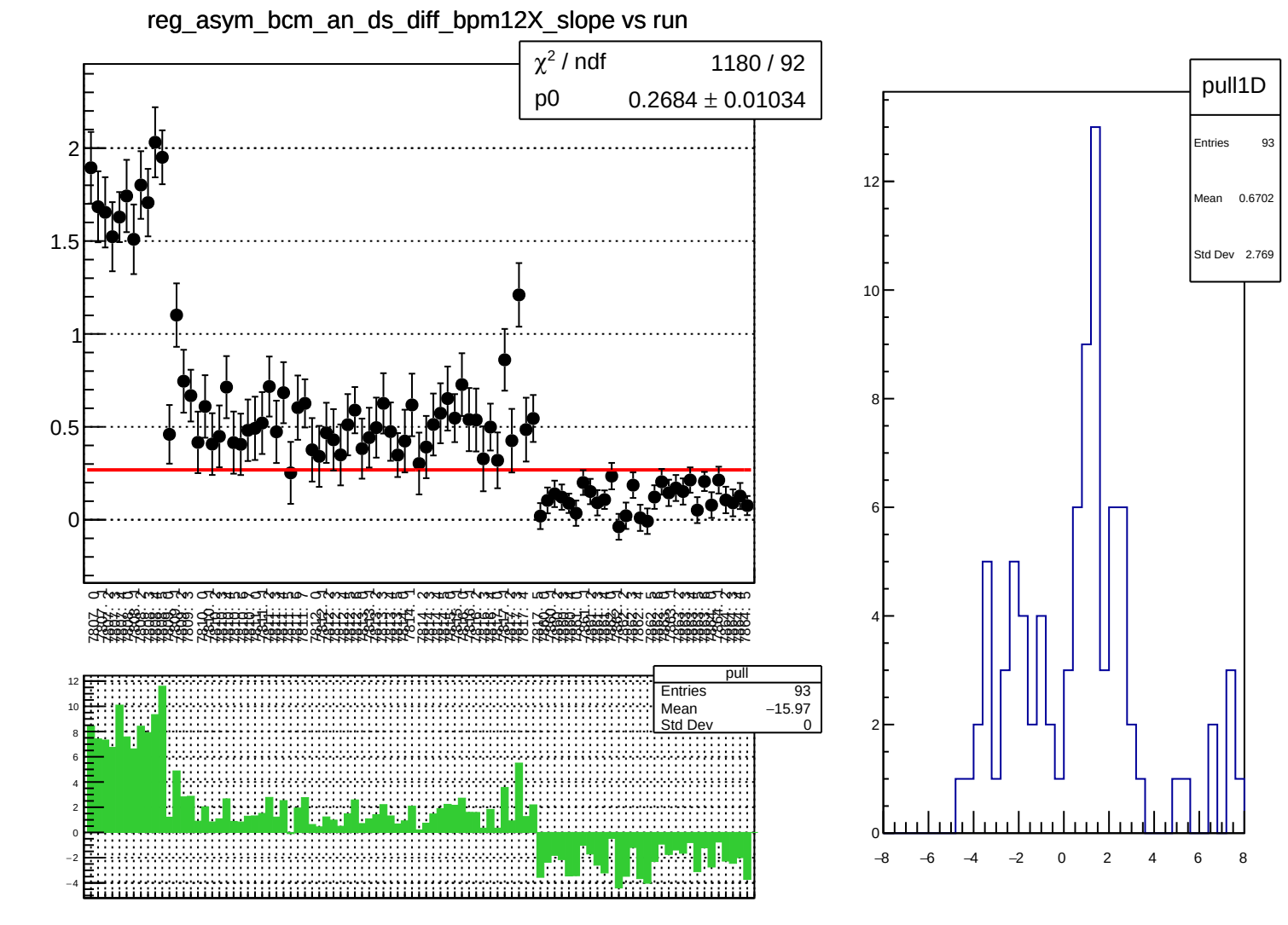

pull1D
Entries 93
Mean −0.9342
Std Dev 2.189

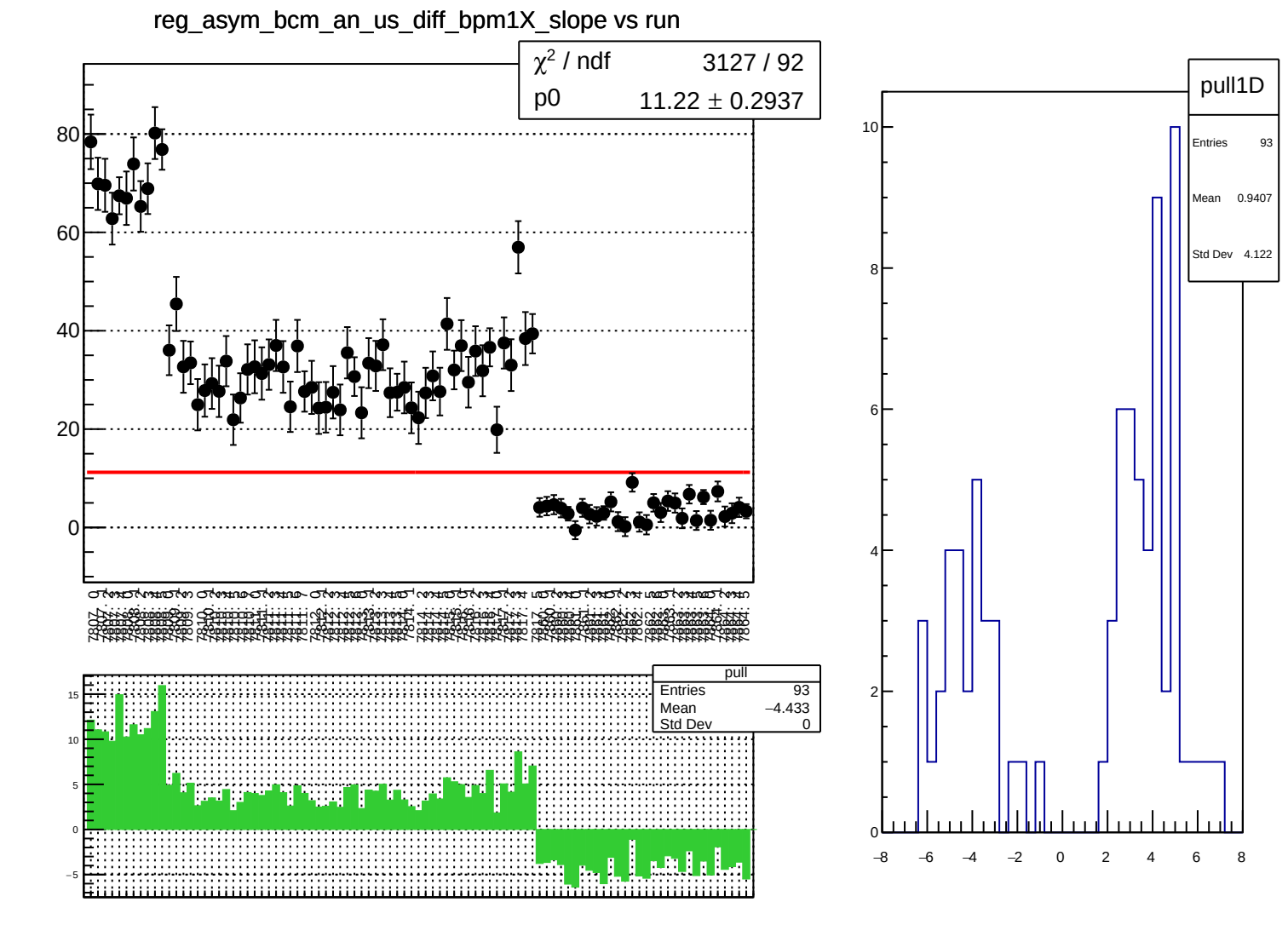

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 3209 / 92
p0 −9.695 ± 0.2583
pull
Entries 93
Mean −2.381
Std Dev 0

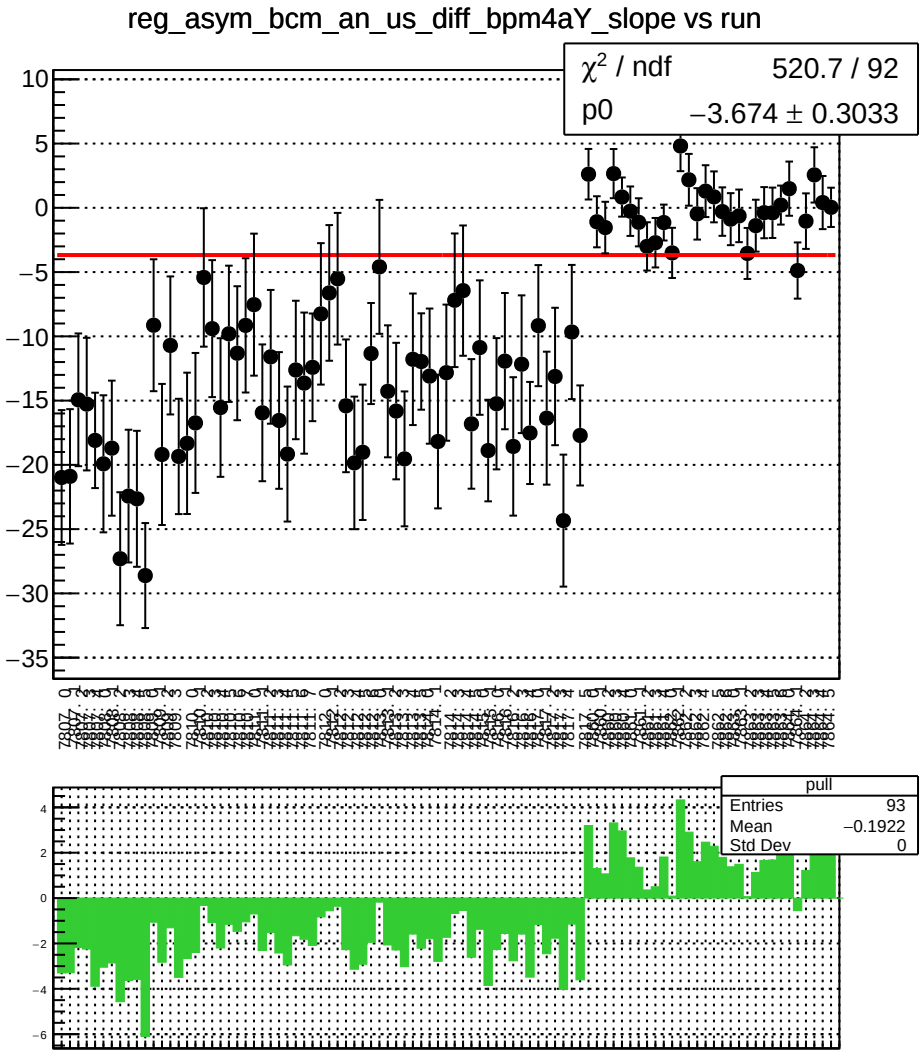

pull1D
Entries 93
Mean −1.06
Std Dev 4.191

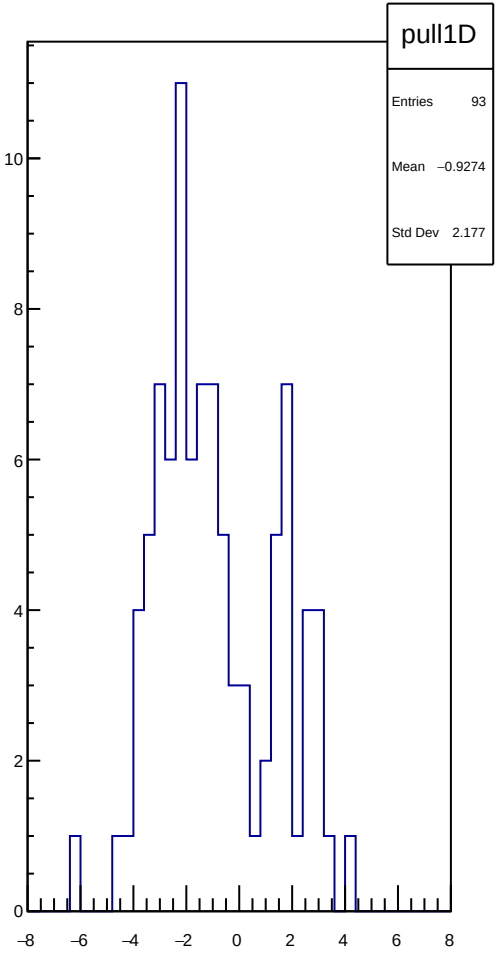

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 533 / 92
p0 4.089 ± 0.3473
pull
Entries 93
Mean −0.9759
Std Dev 0

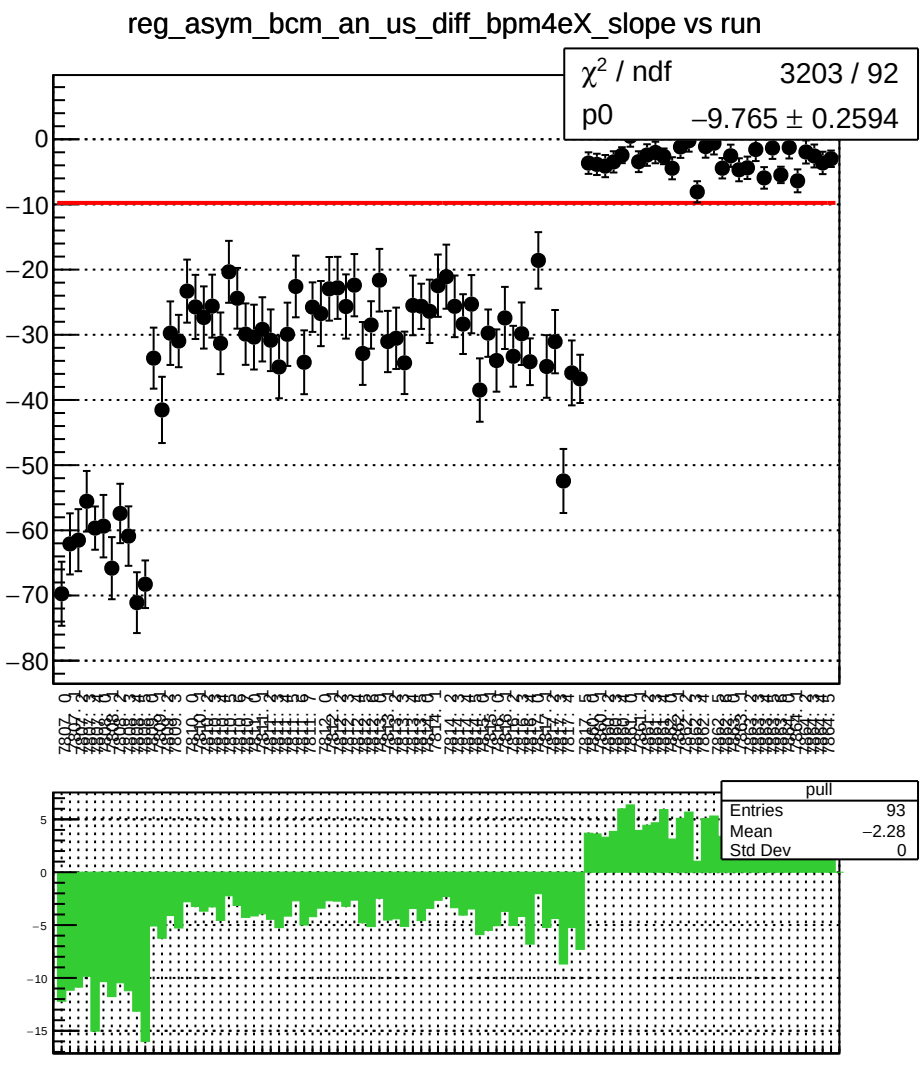

pull1D
Entries 93
Mean 0.9361
Std Dev 2.203

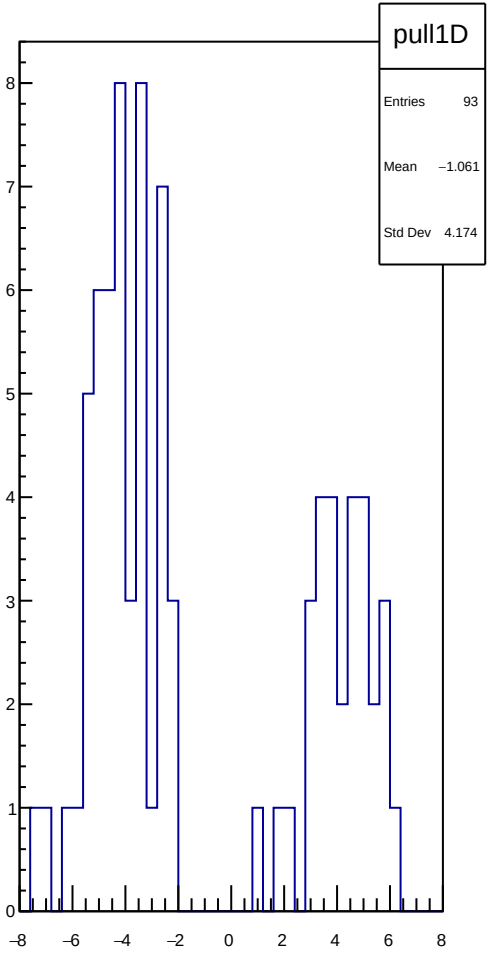

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 1180 / 92
p0 0.2684 ± 0.01034
pull
Entries 93
Mean −15.97
Std Dev 0
pull1D
Entries 93
Mean 0.6702
Std Dev 2.769

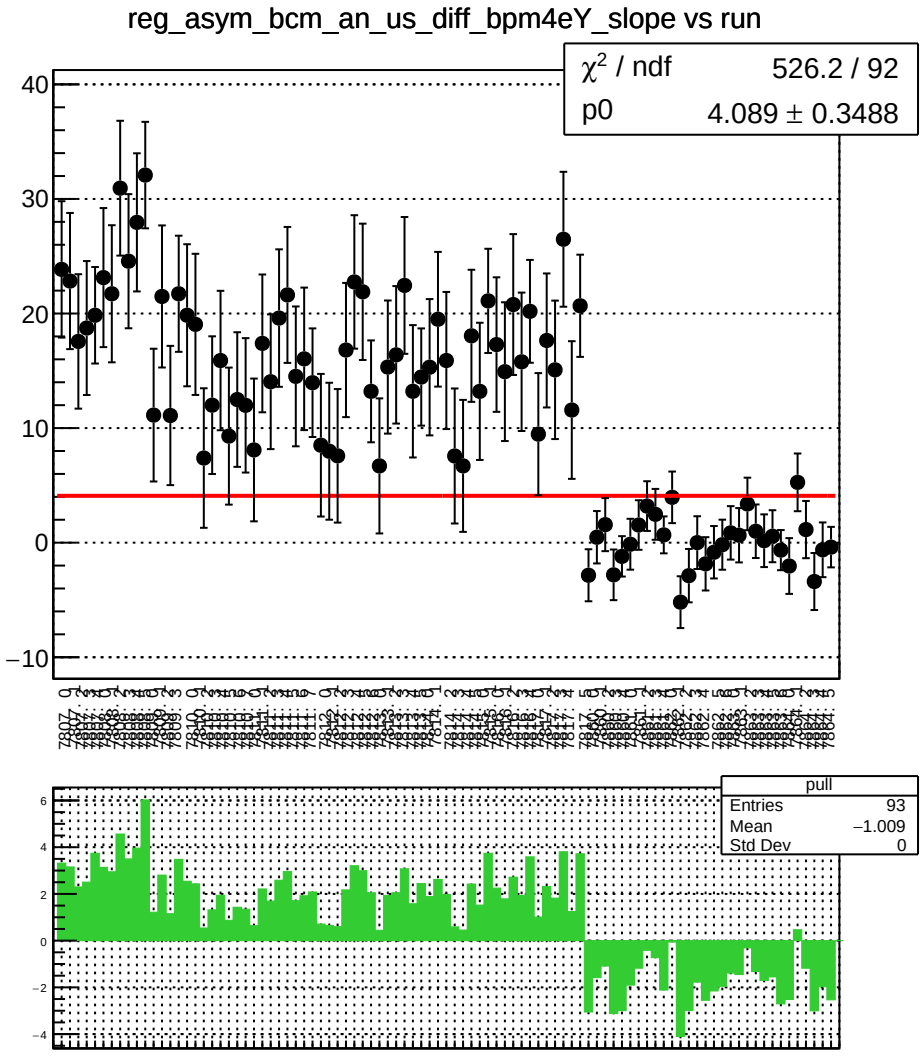

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 3127 / 92
p0 11.22 ± 0.2937
pull
Entries 93
Mean −4.433
Std Dev 0
pull1D
Entries 93
Mean 0.9407
Std Dev 4.122

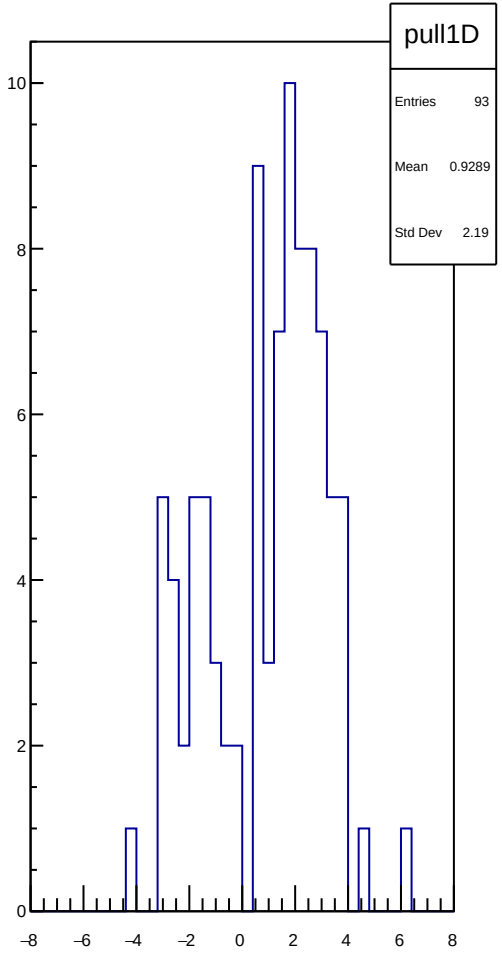

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 520.7 / 92
p0 −3.674 ± 0.3033
pull
Entries 93
Mean −0.1922
Std Dev 0

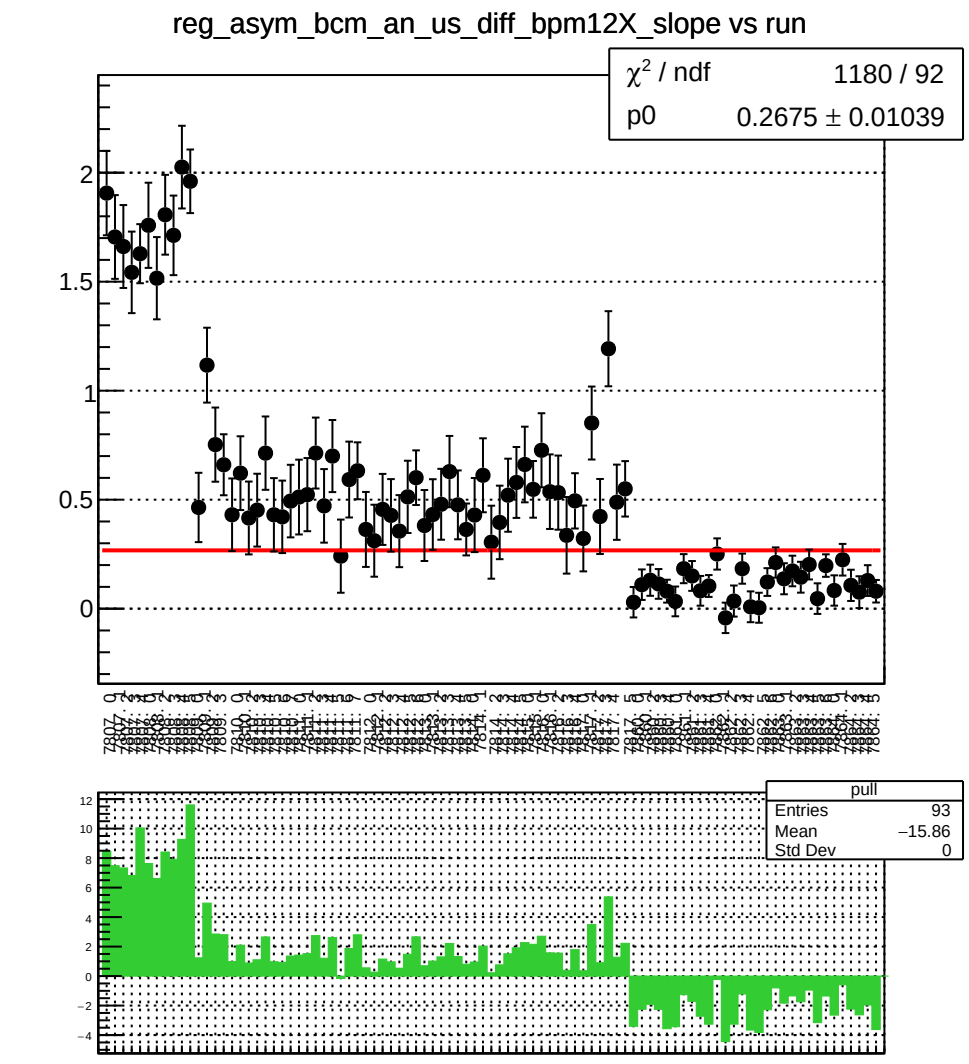

pull1D
Entries 93
Mean −0.9274
Std Dev 2.177

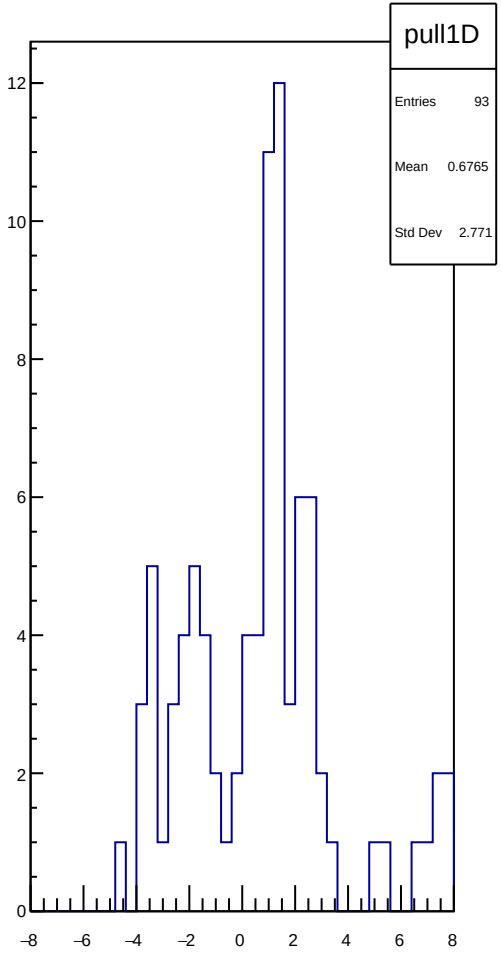

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 3203 / 92
p0 −9.765 ± 0.2594
pull
Entries 93
Mean −2.28
Std Dev 0

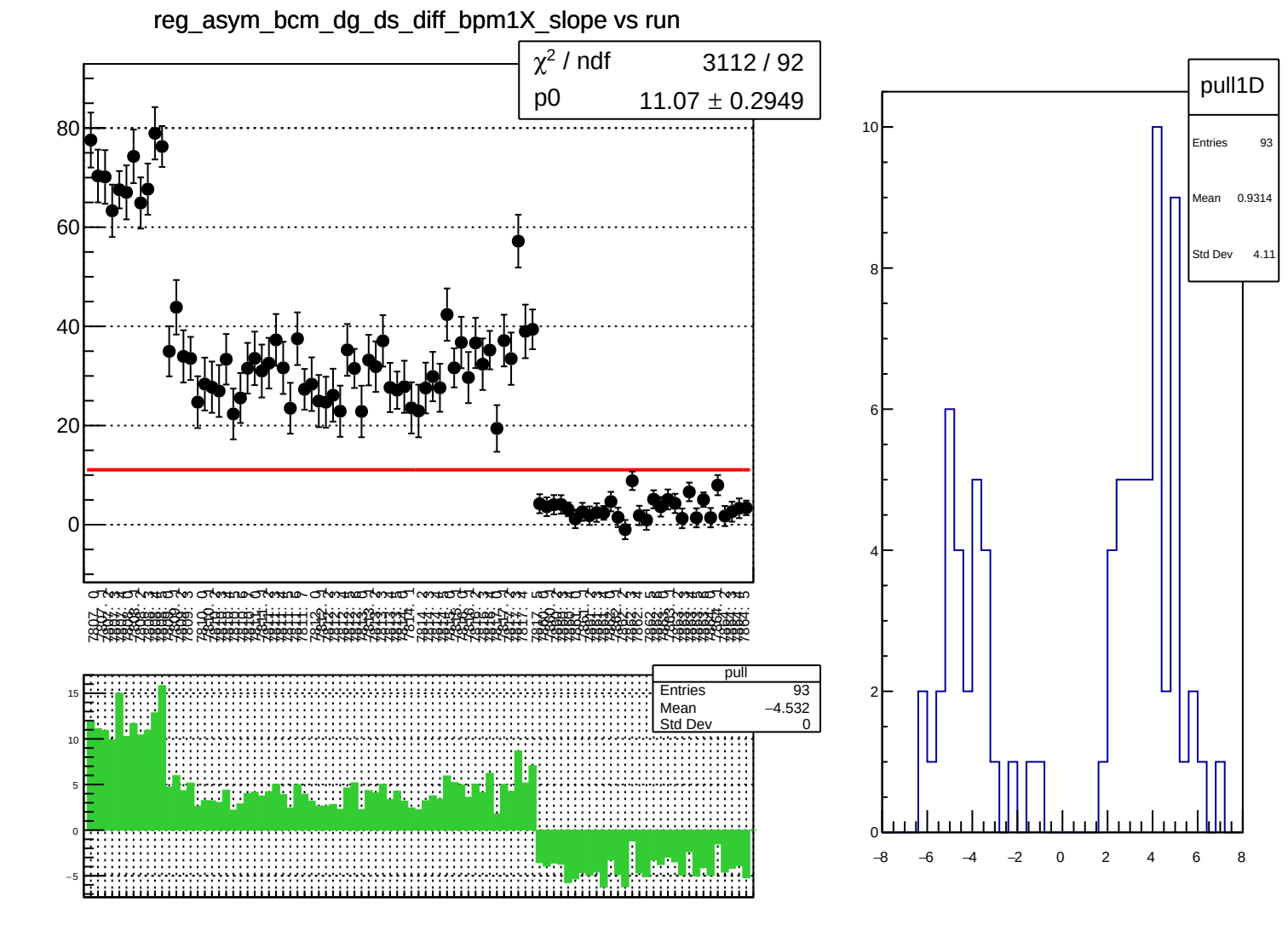

pull1D
Entries 93
Mean −1.061
Std Dev 4.174

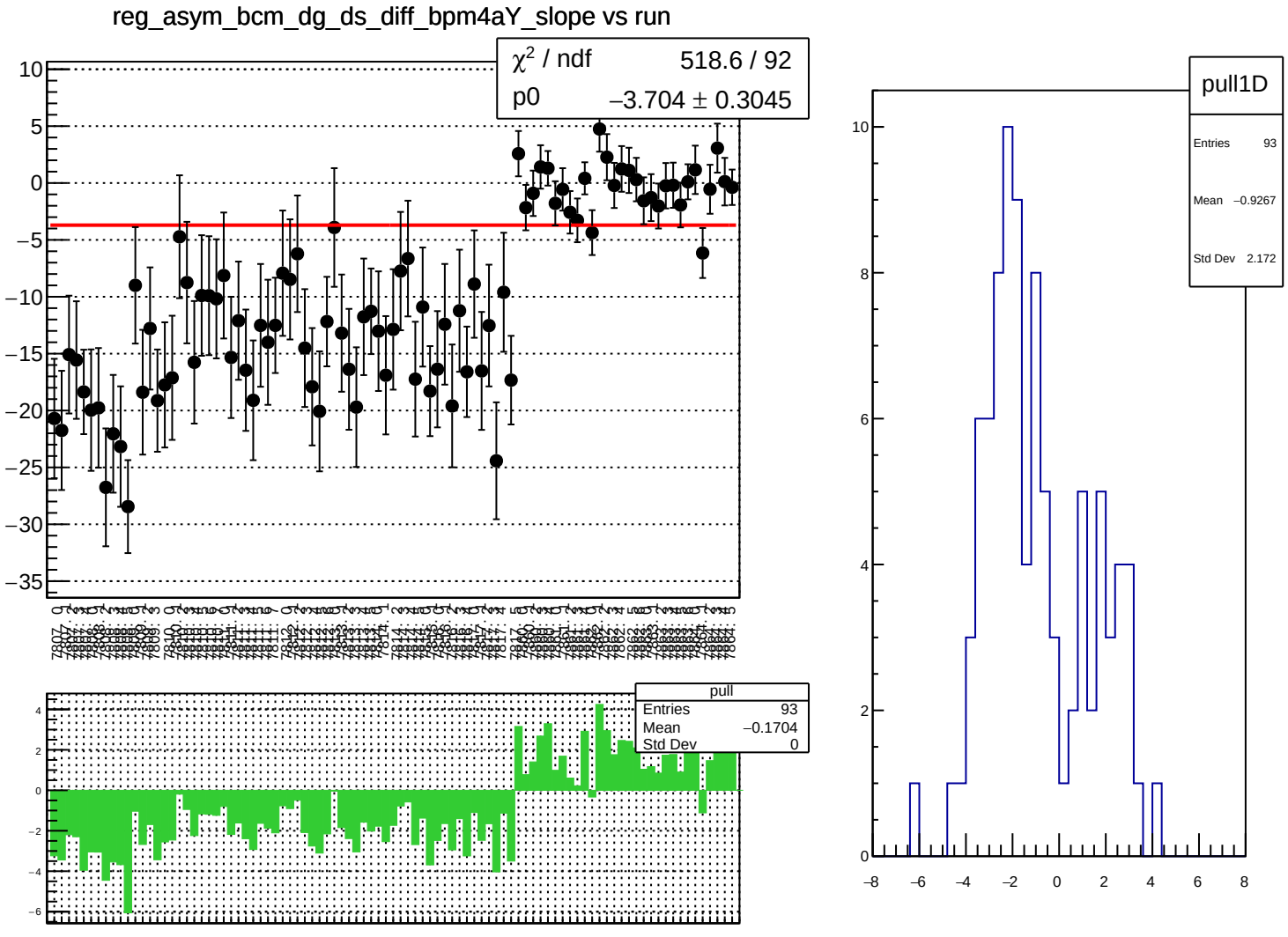

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 526.2 / 92
p0 4.089 ± 0.3488
pull
Entries 93
Mean −1.009
Std Dev 0

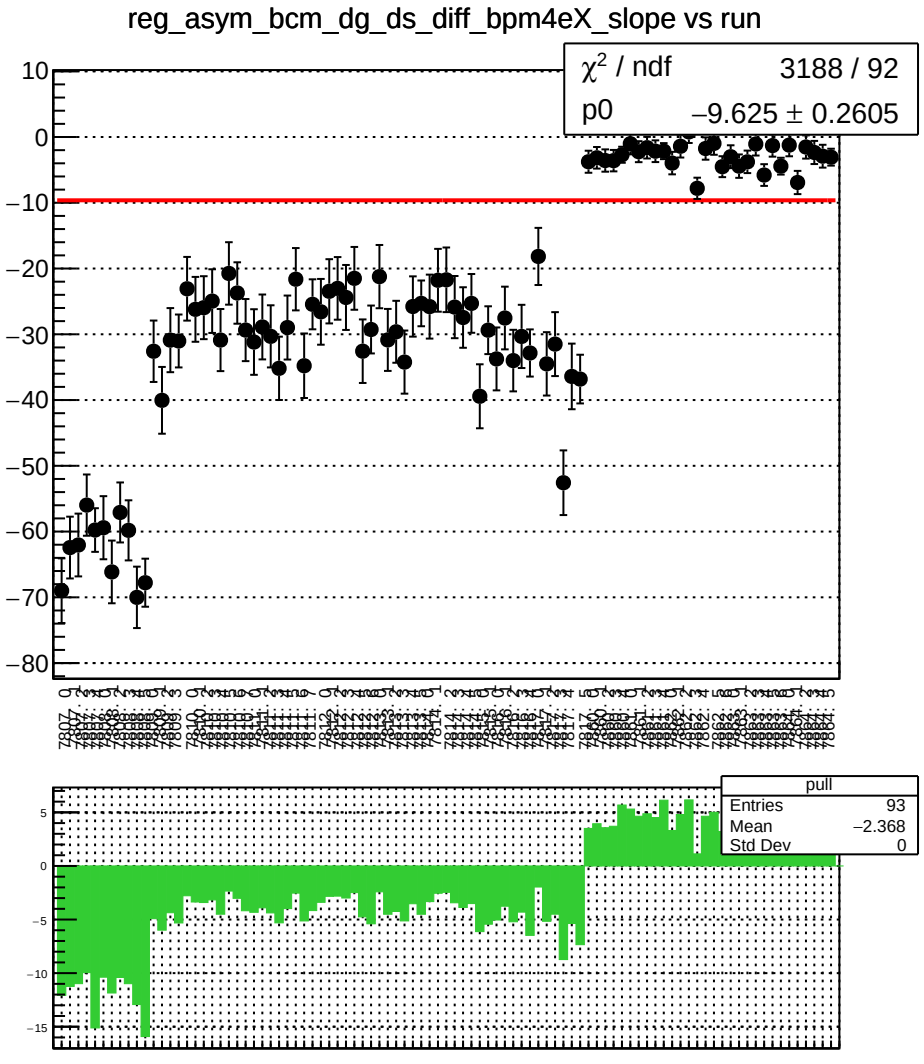

pull1D
Entries 93
Mean 0.9289
Std Dev 2.19

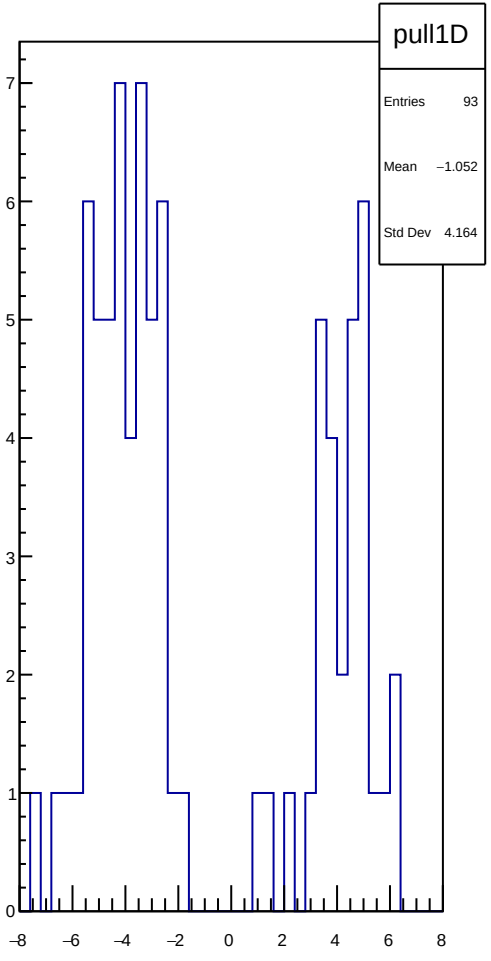

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 1180 / 92
p0 0.2675 ± 0.01039
pull
Entries 93
Mean −15.86
Std Dev 0

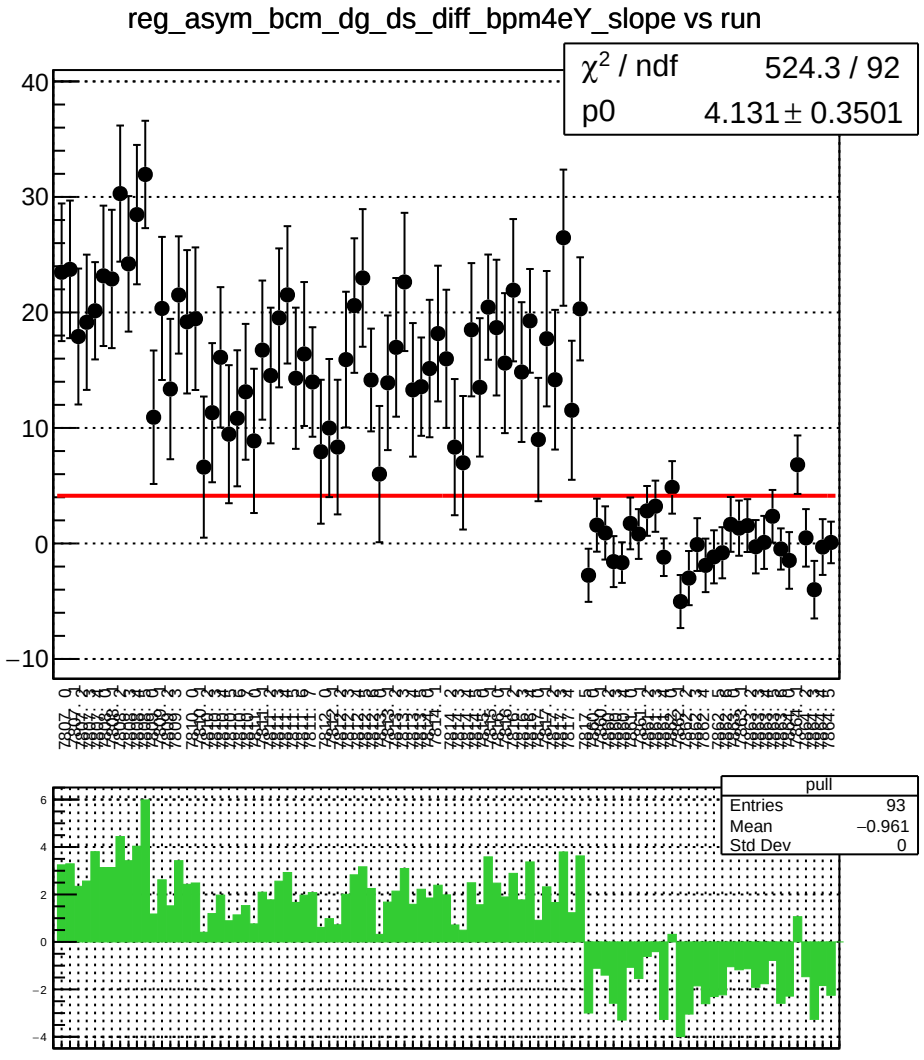

pull1D
Entries 93
Mean 0.6765
Std Dev 2.771

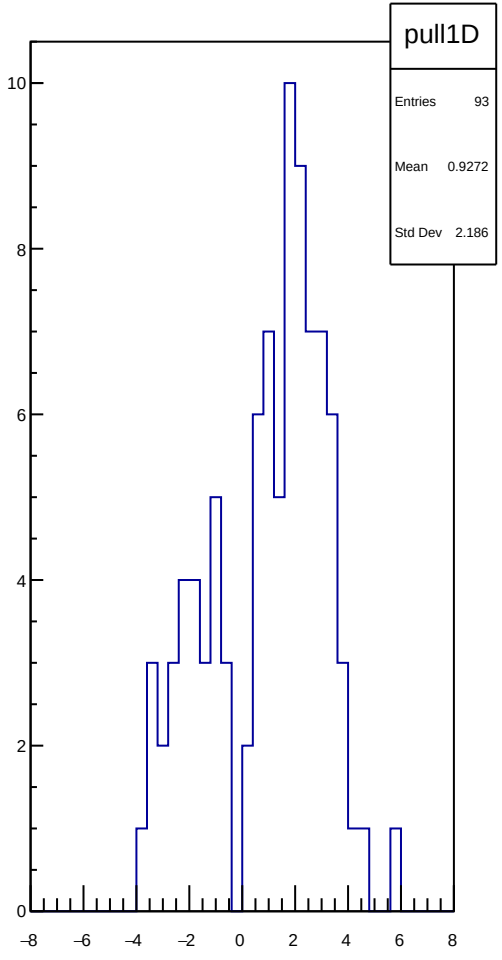

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 3112 / 92
p0 11.07 ± 0.2949
pull
Entries 93
Mean −4.532
Std Dev 0
pull1D
Entries 93
Mean 0.9314
Std Dev 4.11

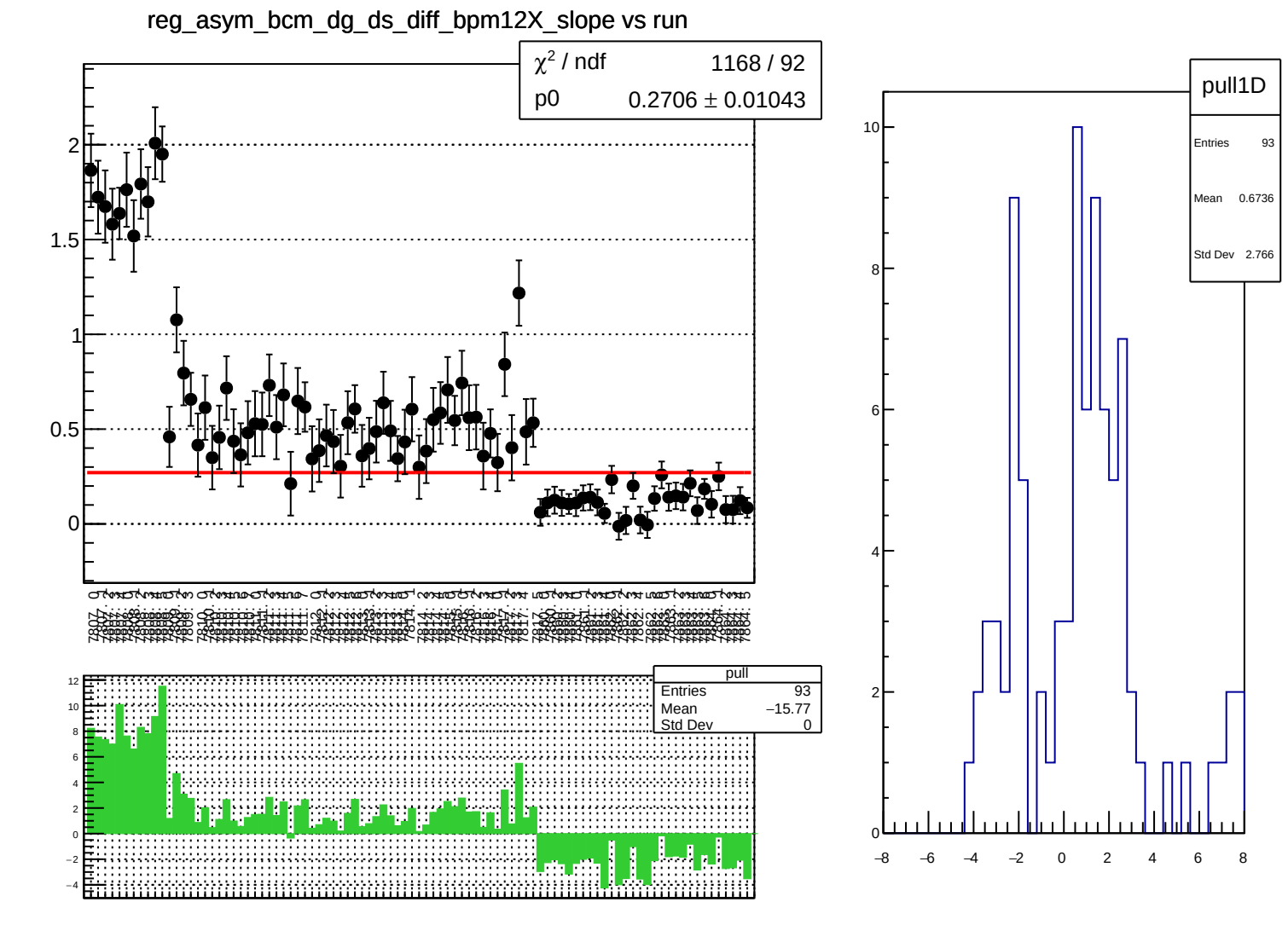

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 518.6 / 92
p0 −3.704 ± 0.3045
pull
Entries 93
Mean −0.1704
Std Dev 0
pull1D
Entries 93
Mean −0.9267
Std Dev 2.172

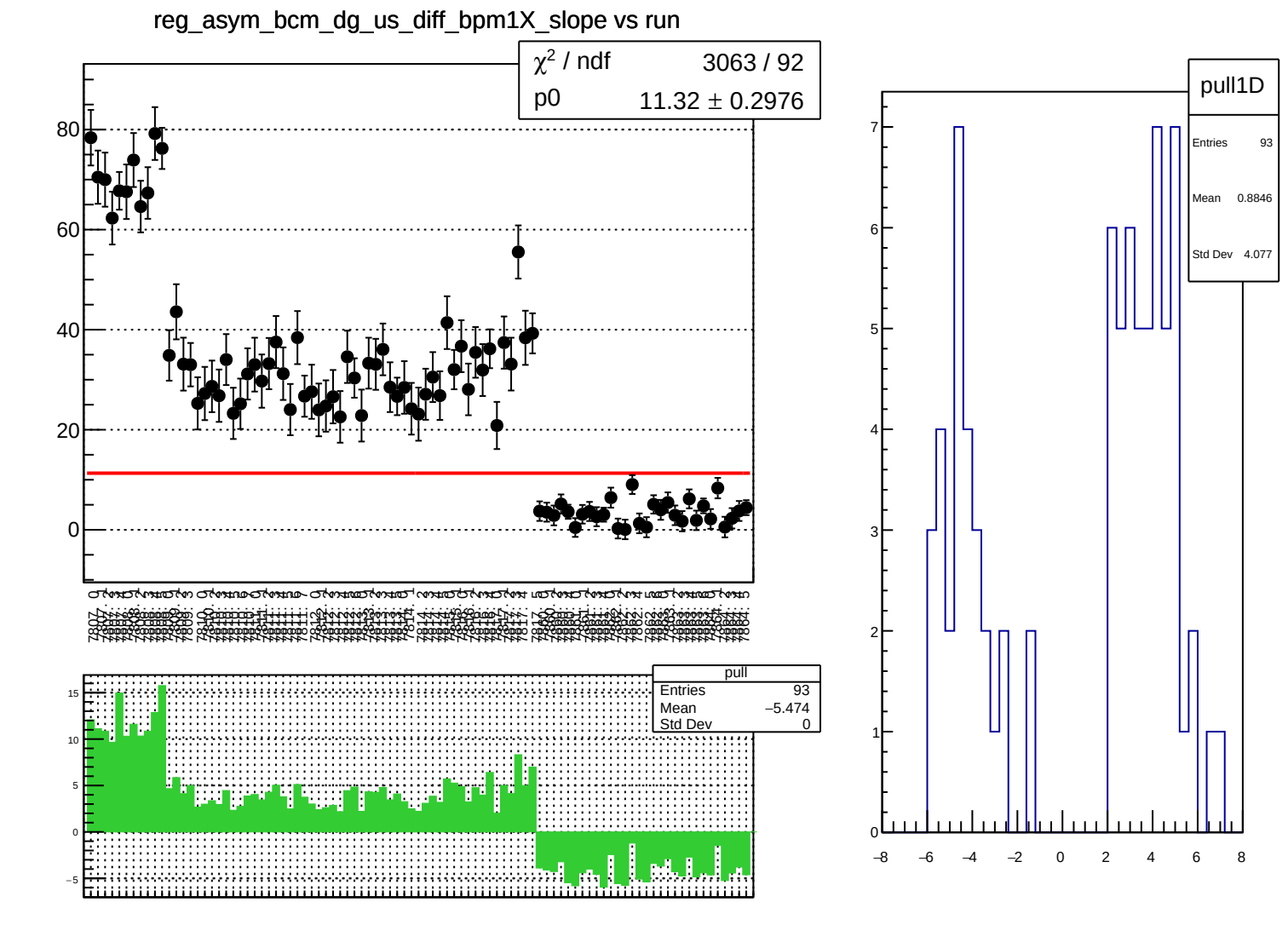

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 3188 / 92
p0 −9.625 ± 0.2605
pull
Entries 93
Mean −2.368
Std Dev 0

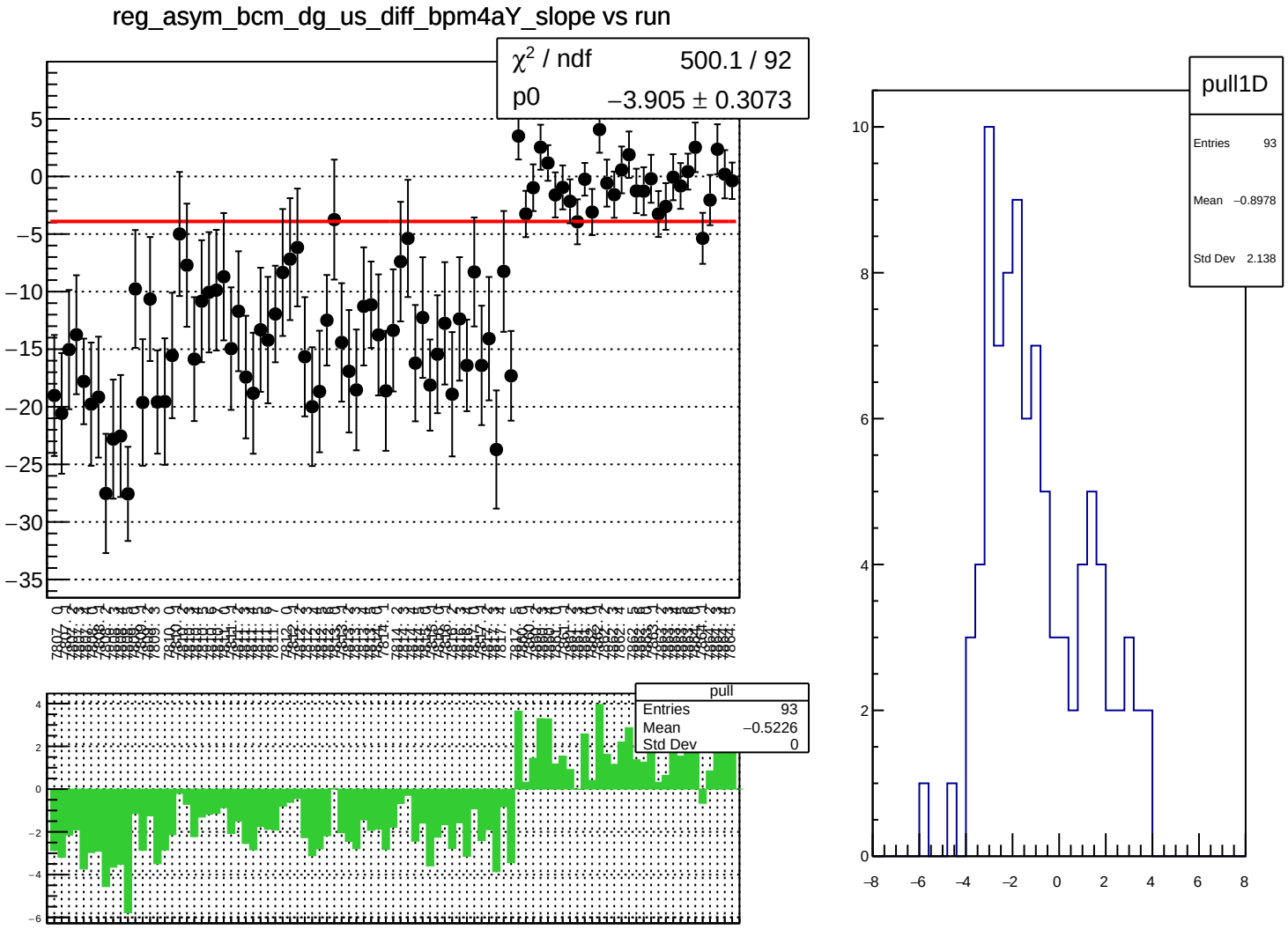

pull1D
Entries 93
Mean −1.052
Std Dev 4.164

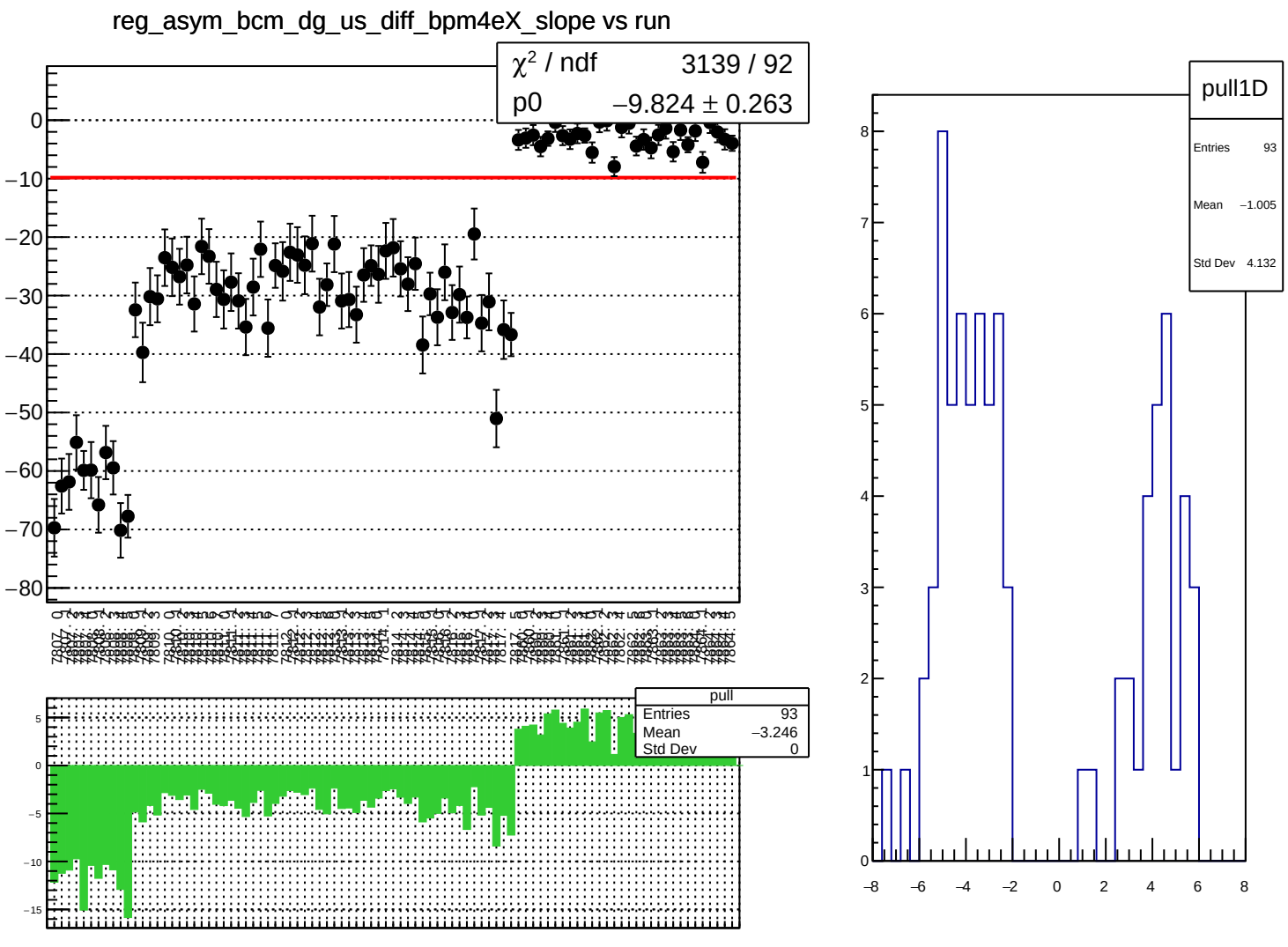

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 524.3 / 92
p0 4.131 ± 0.3501
pull
Entries 93
Mean −0.961
Std Dev 0

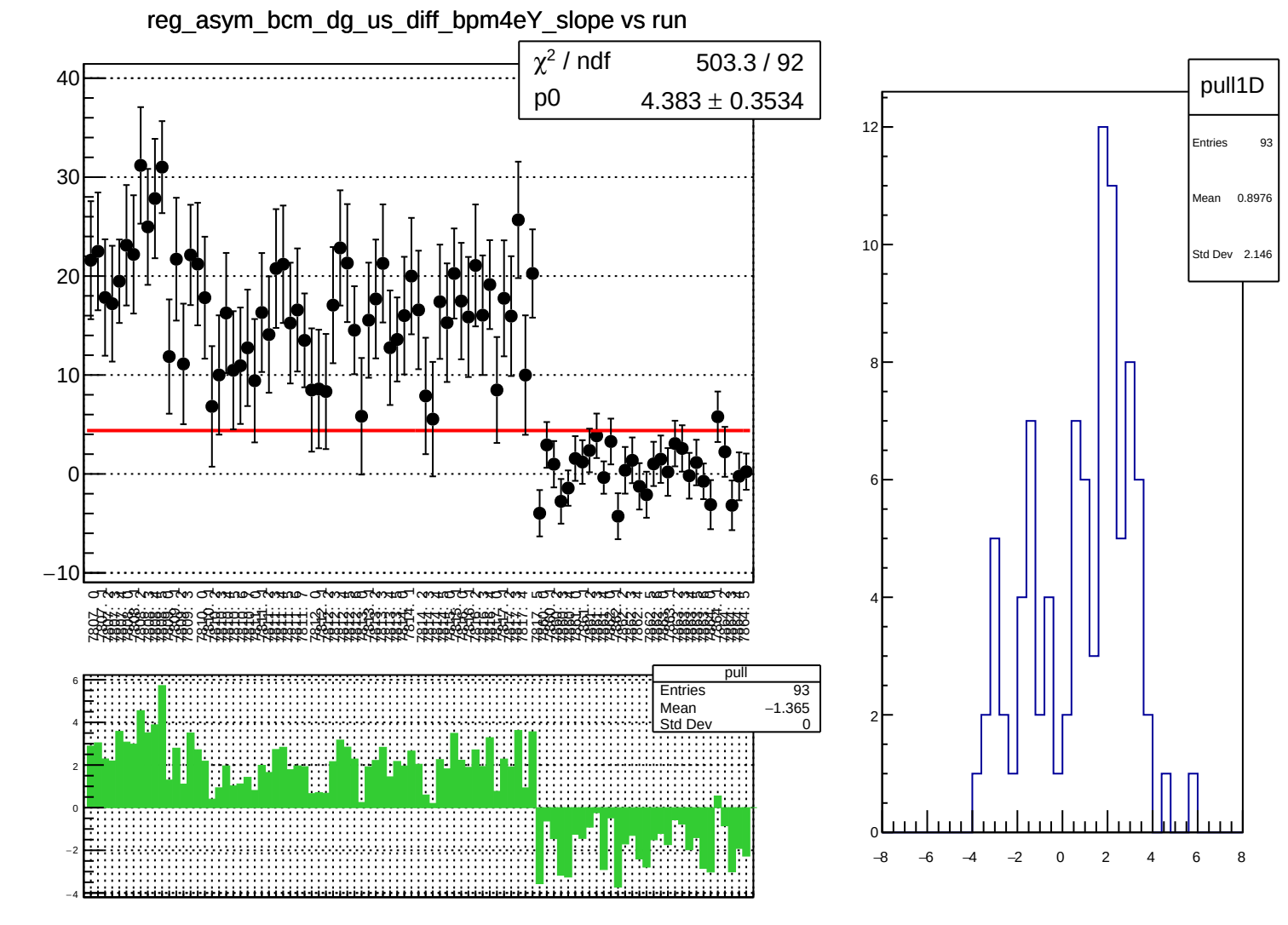

pull1D
Entries 93
Mean 0.9272
Std Dev 2.186

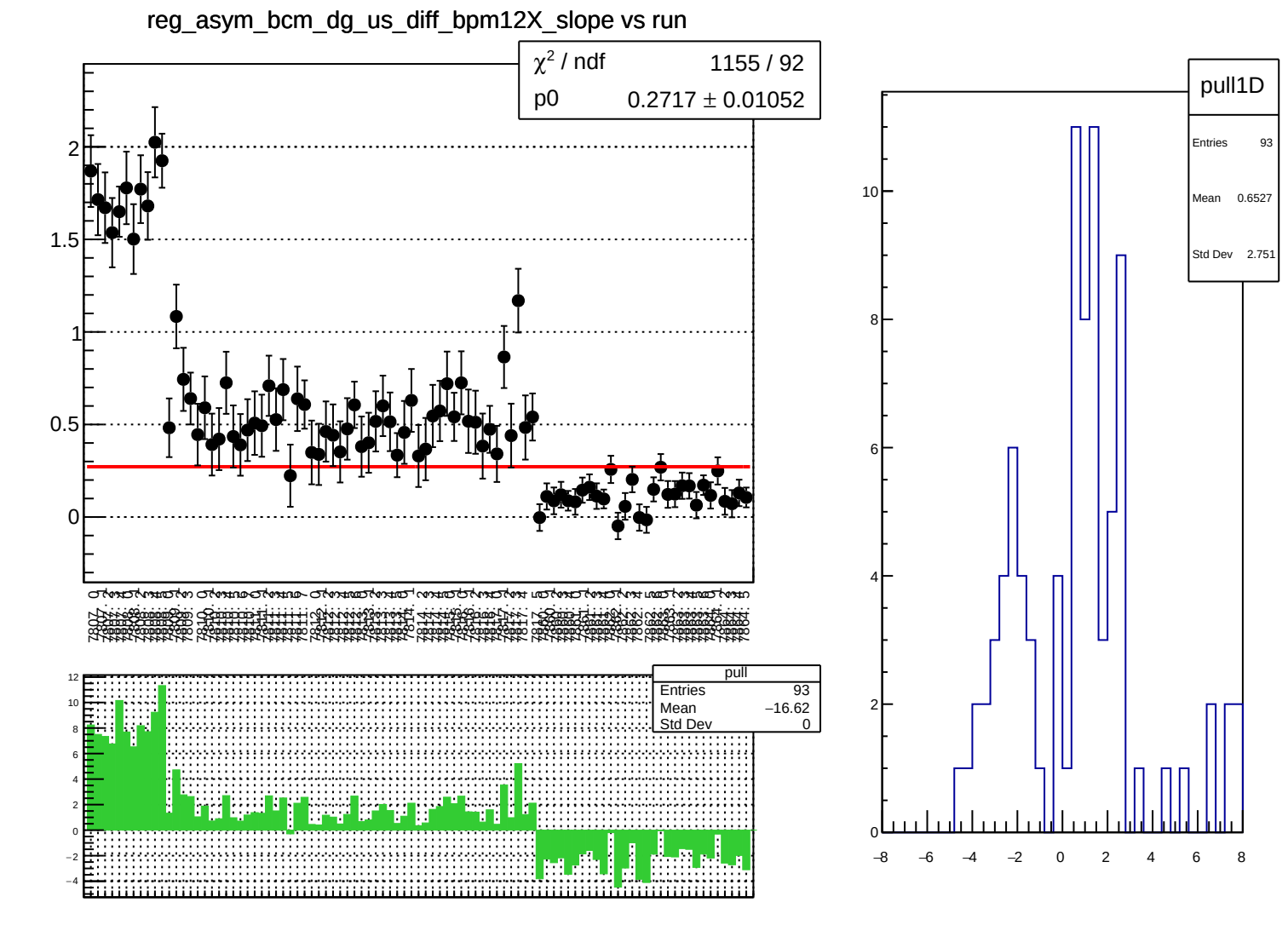

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 1168 / 92
p0 0.2706 ± 0.01043
pull
Entries 93
Mean −15.77
Std Dev 0
pull1D
Entries 93
Mean 0.6736
Std Dev 2.766

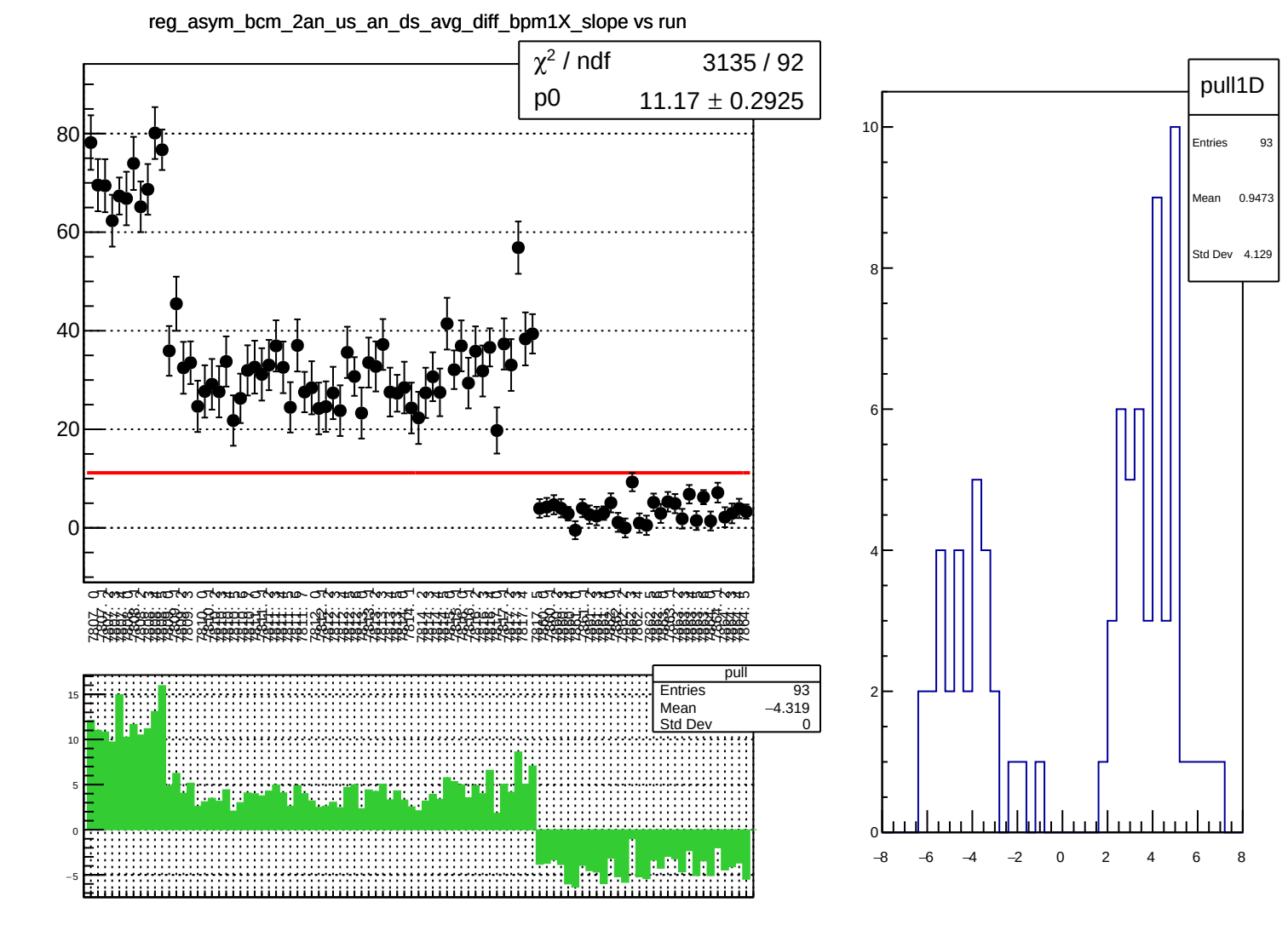

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 3063 / 92
p0 11.32 ± 0.2976
pull
Entries 93
Mean −5.474
Std Dev 0
pull1D
Entries 93
Mean 0.8846
Std Dev 4.077

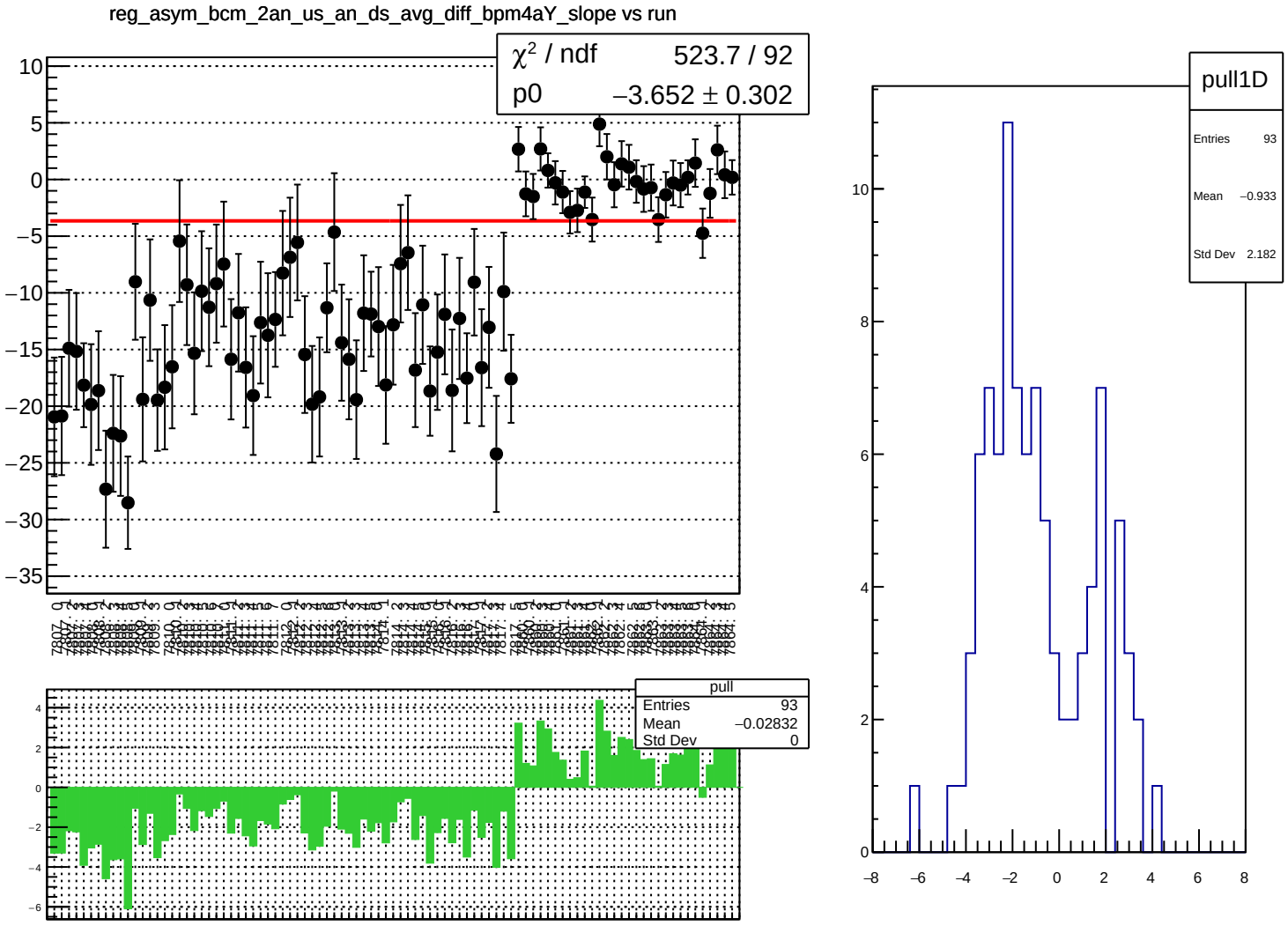

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 500.1 / 92
p0 −3.905 ± 0.3073
pull
Entries 93
Mean −0.5226
Std Dev 0
pull1D
Entries 93
Mean −0.8978
Std Dev 2.138

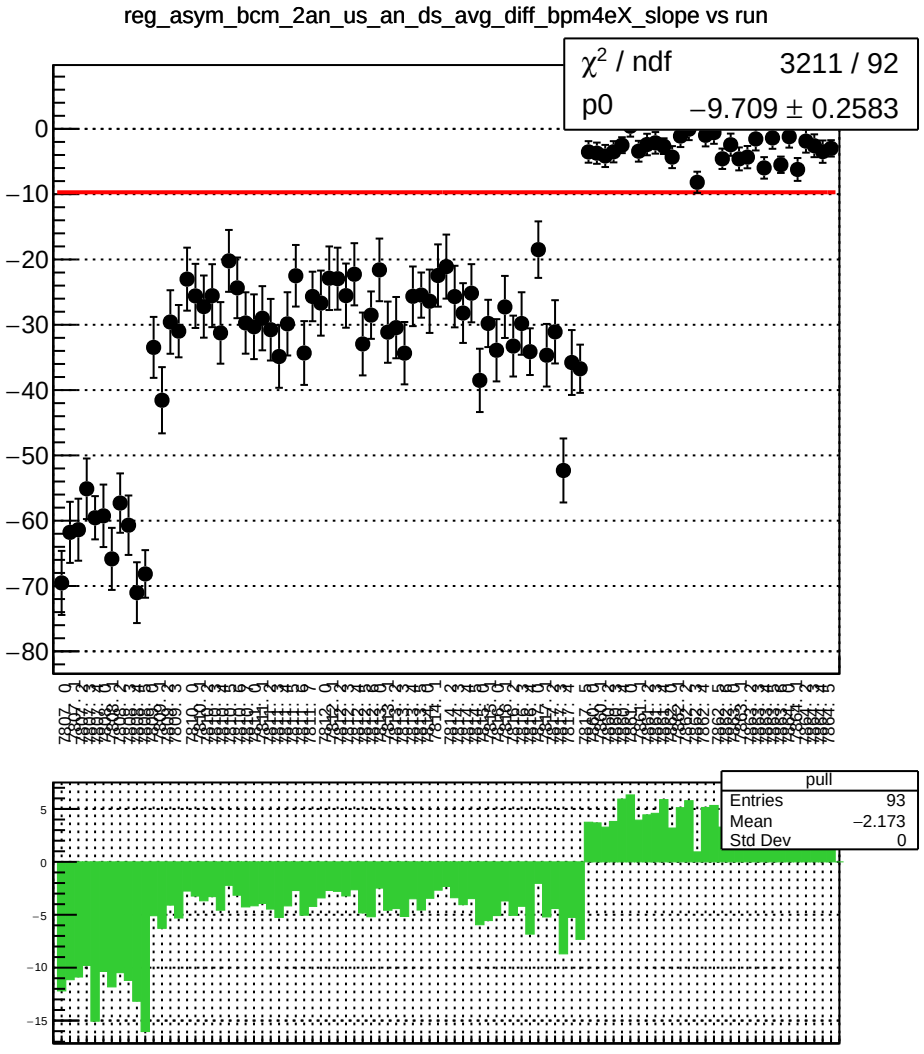

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 3139 / 92
p0 −9.824 ± 0.263
pull
Entries 93
Mean −3.246
Std Dev 0
pull1D
Entries 93
Mean −1.005
Std Dev 4.132

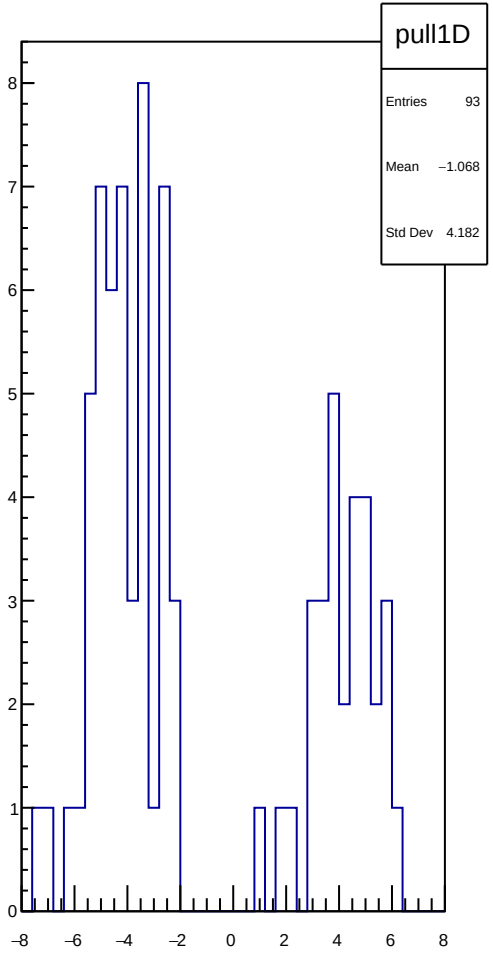

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 503.3 / 92
p0 4.383 ± 0.3534
pull
Entries 93
Mean −1.365
Std Dev 0
pull1D
Entries 93
Mean 0.8976
Std Dev 2.146

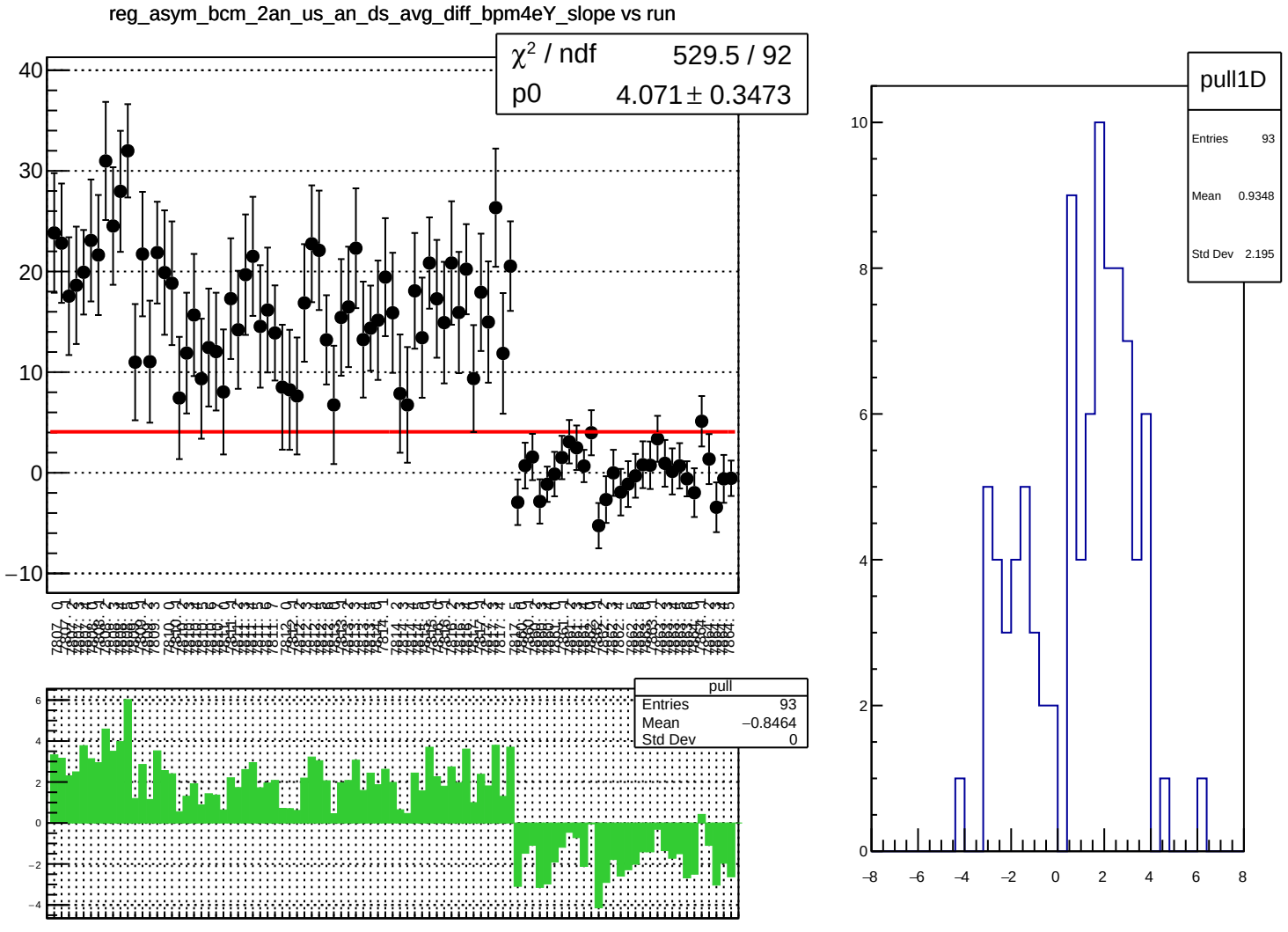

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 1155 / 92
p0 0.2717 ± 0.01052
pull
Entries 93
Mean −16.62
Std Dev 0
pull1D
Entries 93
Mean 0.6527
Std Dev 2.751

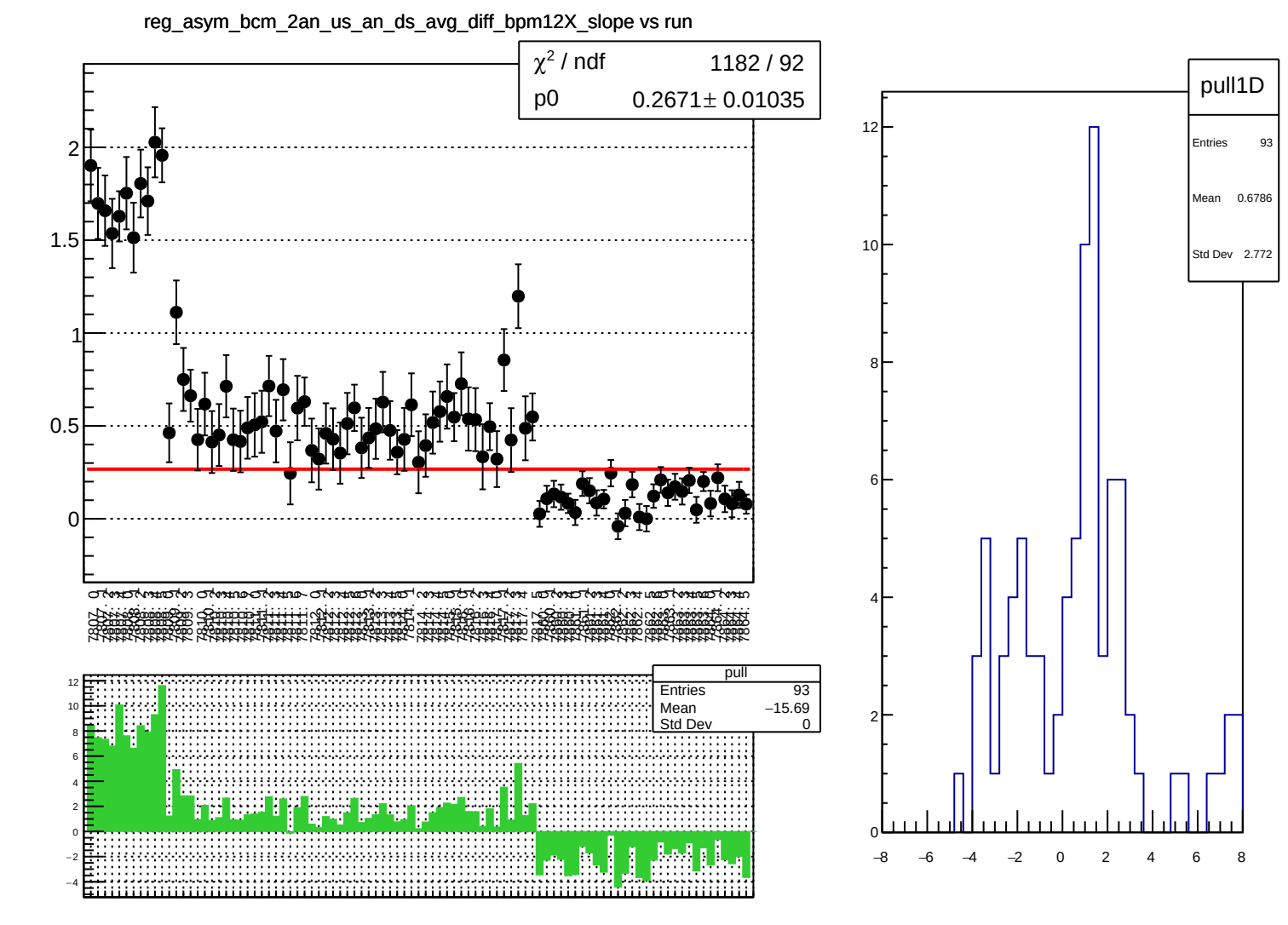

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 3135 / 92
p0 11.17 ± 0.2925
pull
Entries 93
Mean −4.319
Std Dev 0
pull1D
Entries 93
Mean 0.9473
Std Dev 4.129

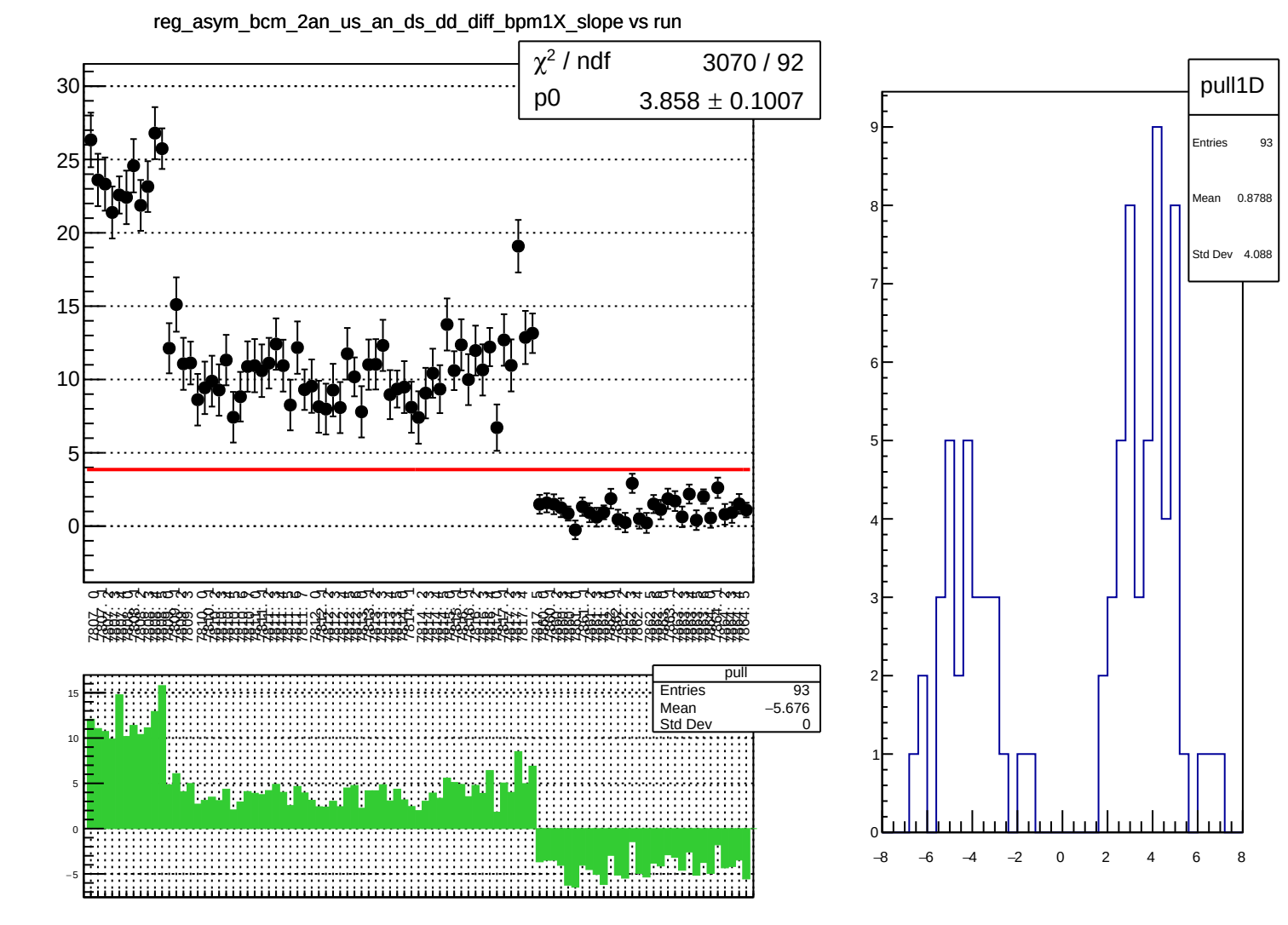

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 523.7 / 92
p0 −3.652 ± 0.302
pull
Entries 93
Mean −0.02832
Std Dev 0
pull1D
Entries 93
Mean −0.933
Std Dev 2.182

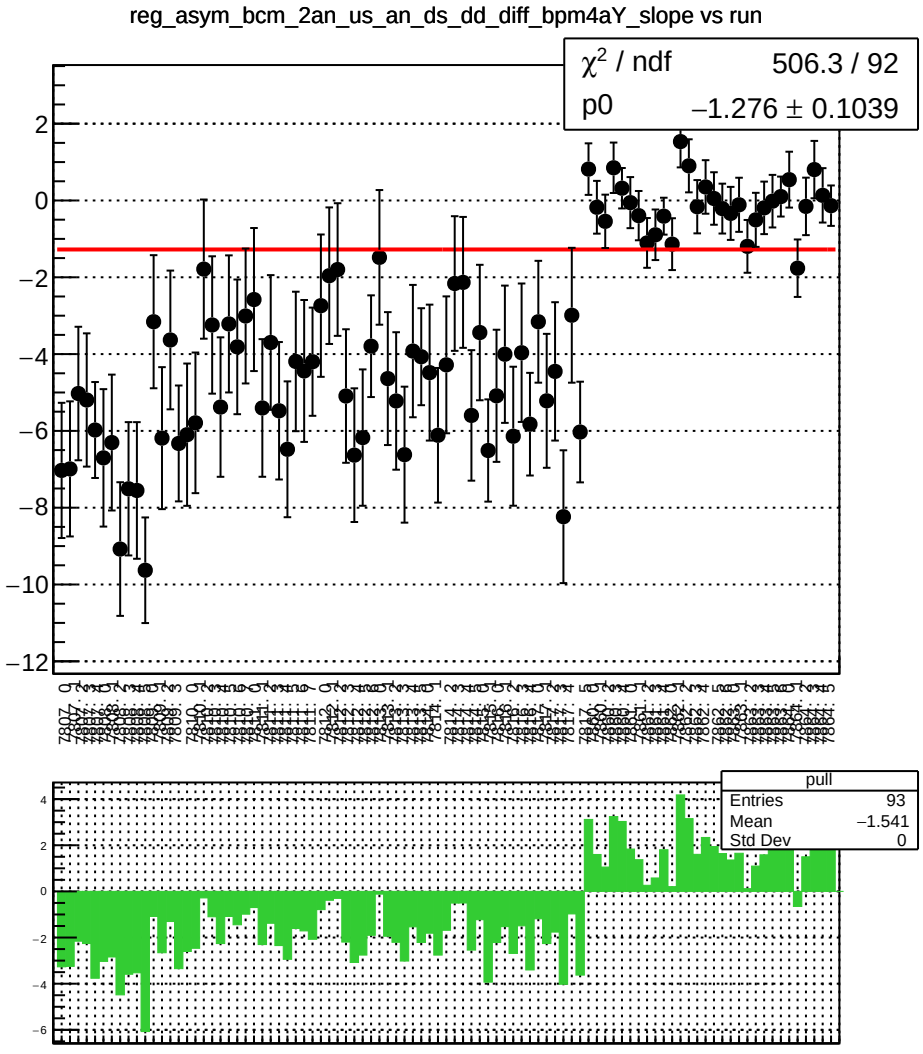

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 3211 / 92
p0 −9.709 ± 0.2583
pull
Entries 93
Mean −2.173
Std Dev 0

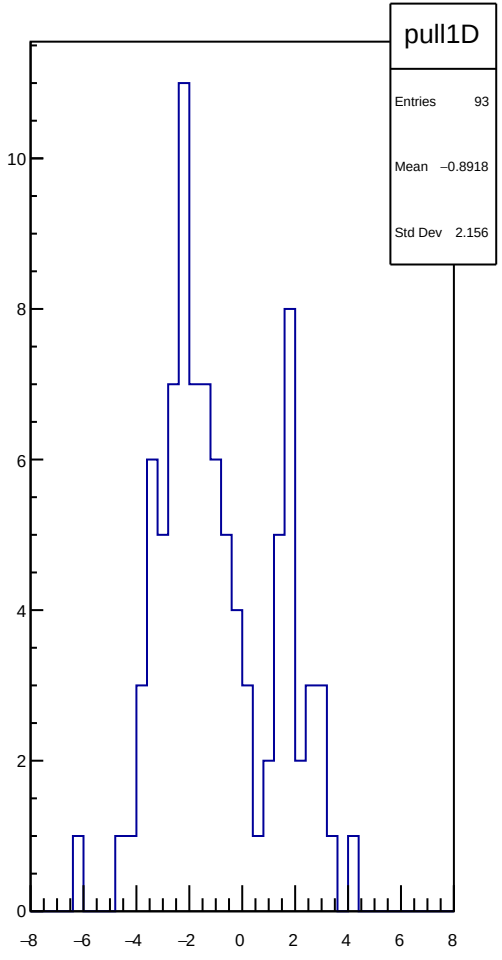

pull1D
Entries 93
Mean −1.068
Std Dev 4.182

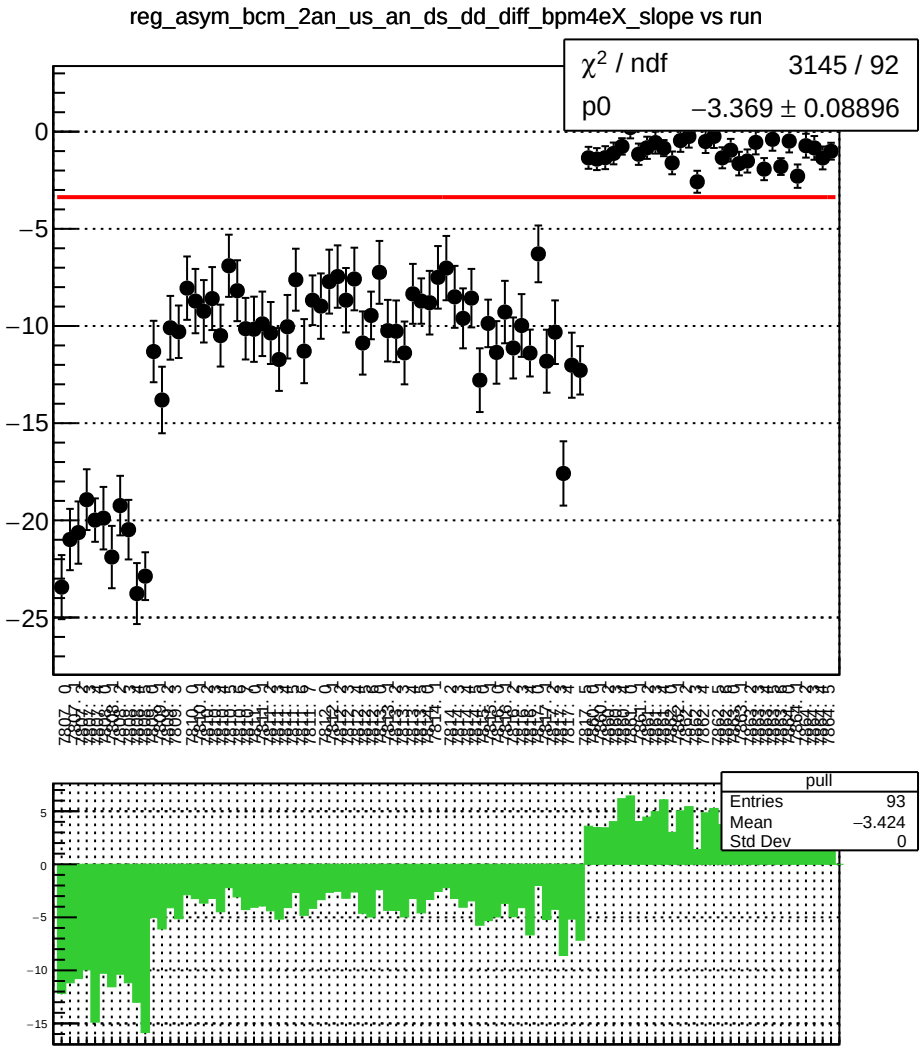

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 529.5 / 92
p0 4.071 ± 0.3473
pull
Entries 93
Mean −0.8464
Std Dev 0
pull1D
Entries 93
Mean 0.9348
Std Dev 2.195

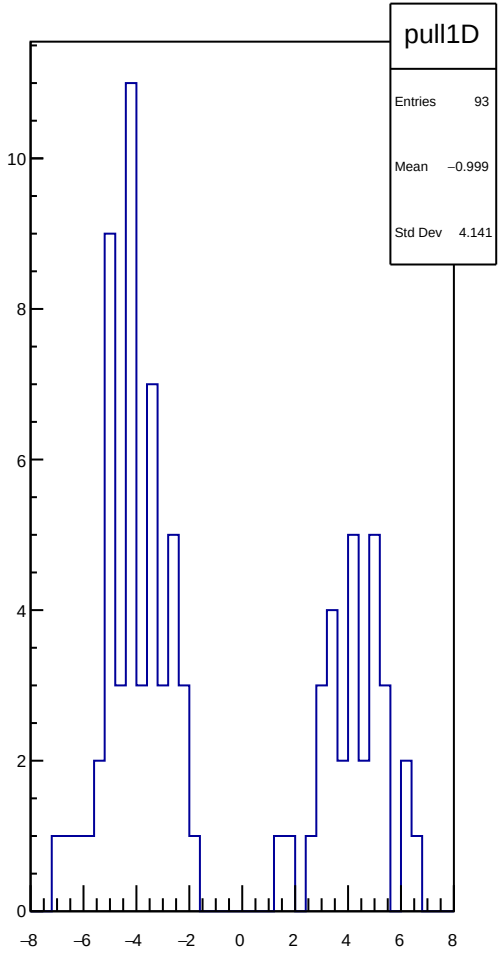

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 1182 / 92
p0 0.2671± 0.01035
pull
Entries 93
Mean −15.69
Std Dev 0
pull1D
Entries 93
Mean 0.6786
Std Dev 2.772

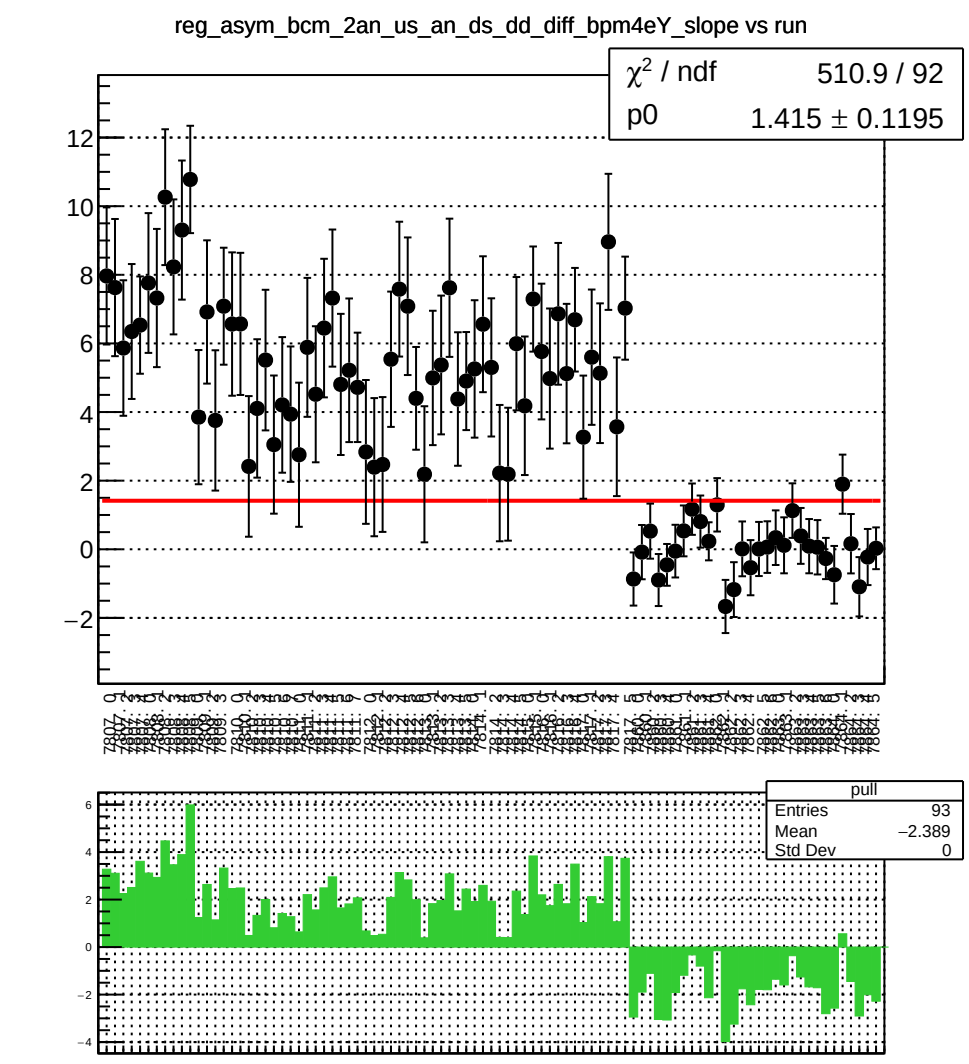

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 3070 / 92
p0 3.858 ± 0.1007
pull
Entries 93
Mean −5.676
Std Dev 0
pull1D
Entries 93
Mean 0.8788
Std Dev 4.088

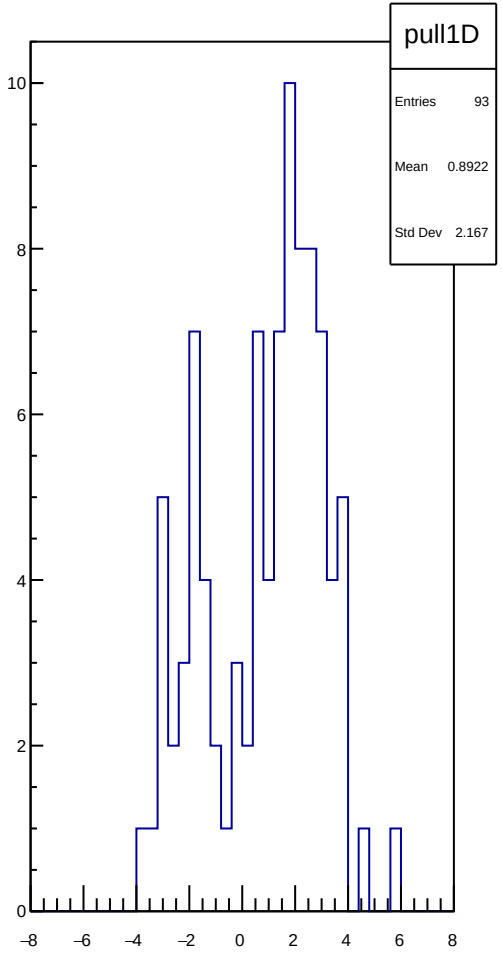

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 506.3 / 92
p0 −1.276 ± 0.1039
pull
Entries 93
Mean −1.541
Std Dev 0

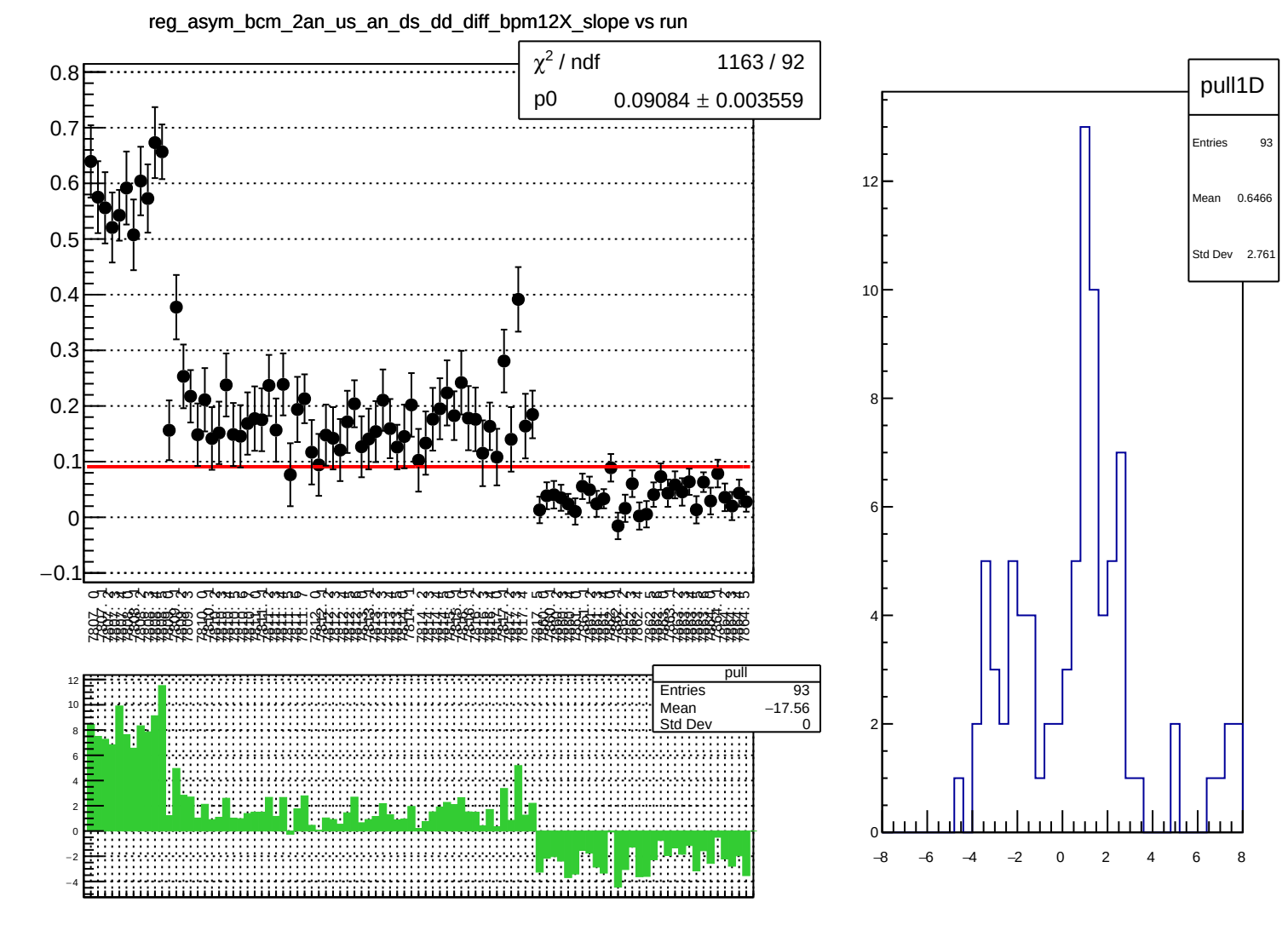

pull1D
Entries 93
Mean −0.8918
Std Dev 2.156

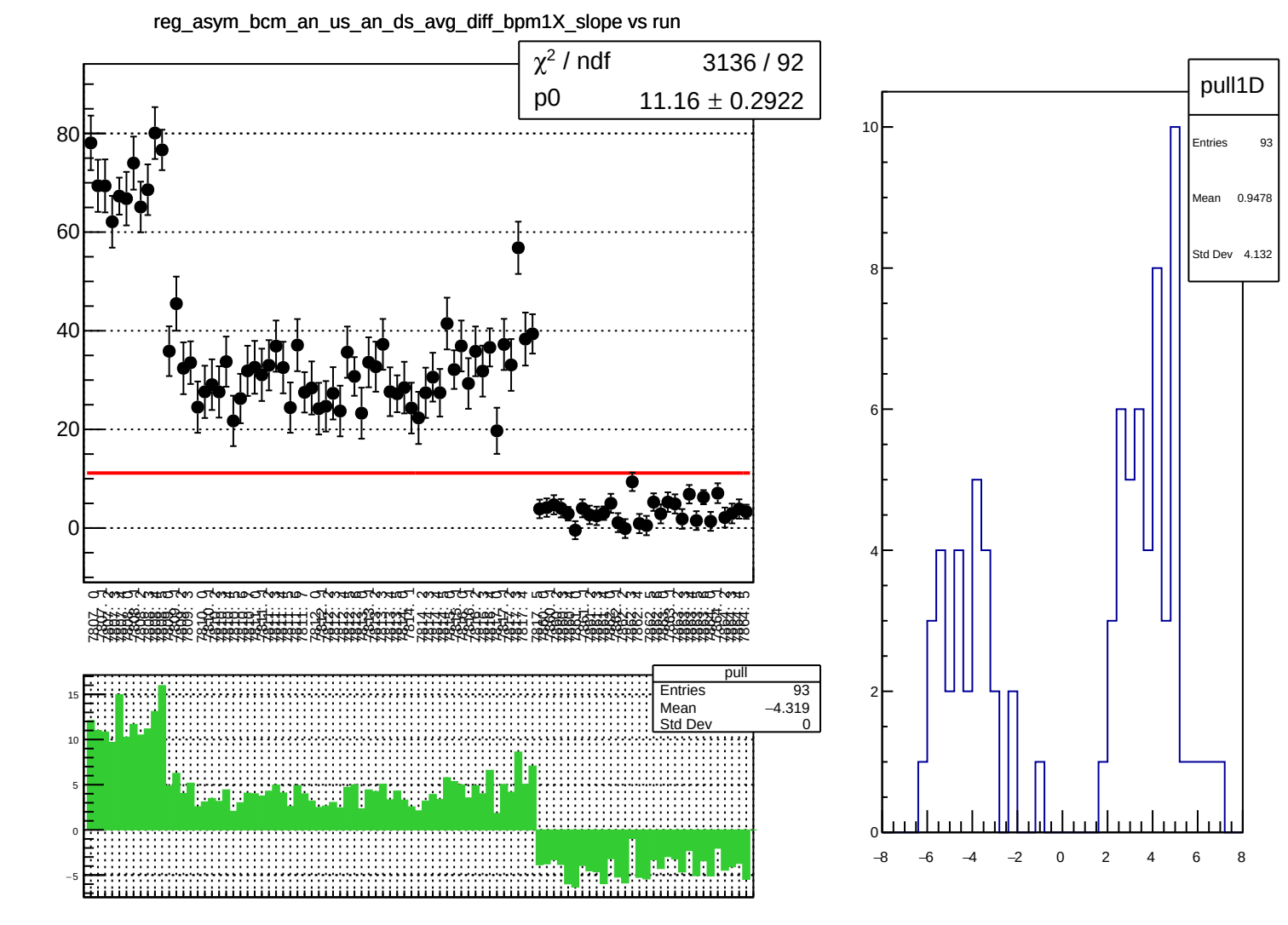

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 3145 / 92
p0 −3.369 ± 0.08896
pull
Entries 93
Mean −3.424
Std Dev 0

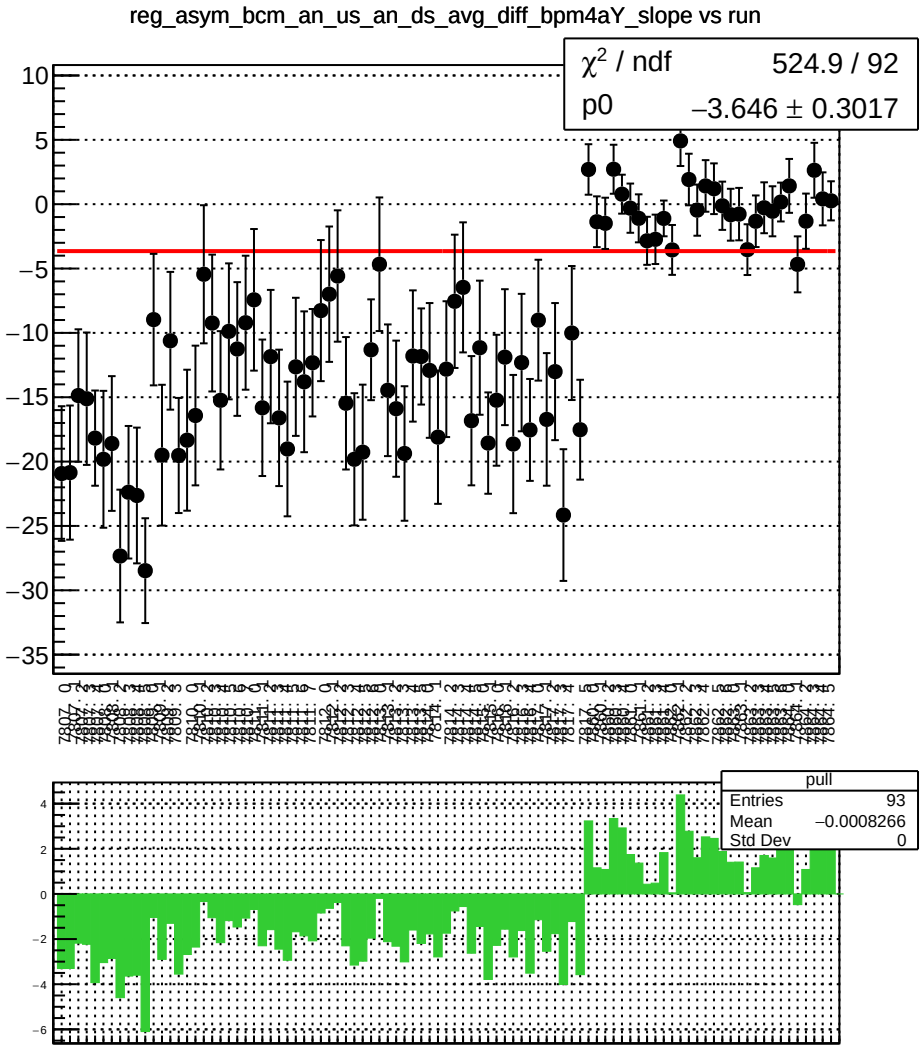

pull1D
Entries 93
Mean −0.999
Std Dev 4.141

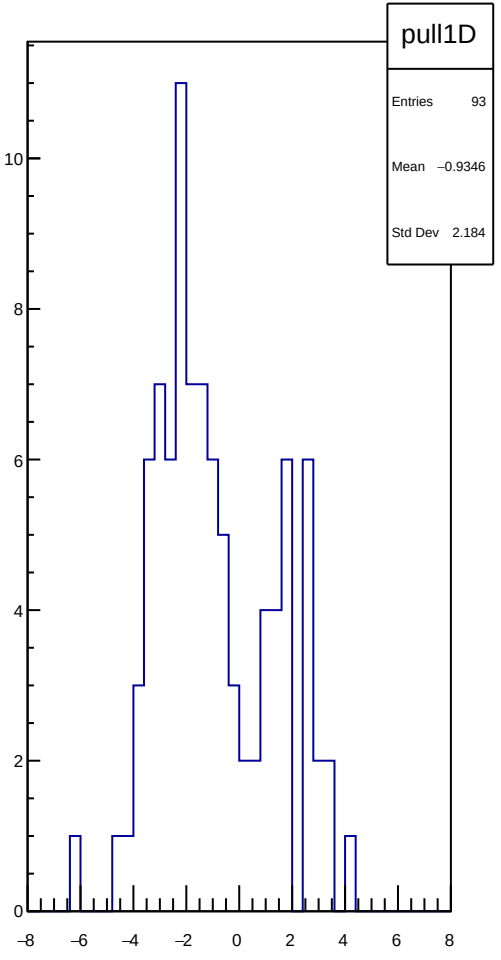

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 510.9 / 92
p0 1.415 ± 0.1195
pull
Entries 93
Mean −2.389
Std Dev 0

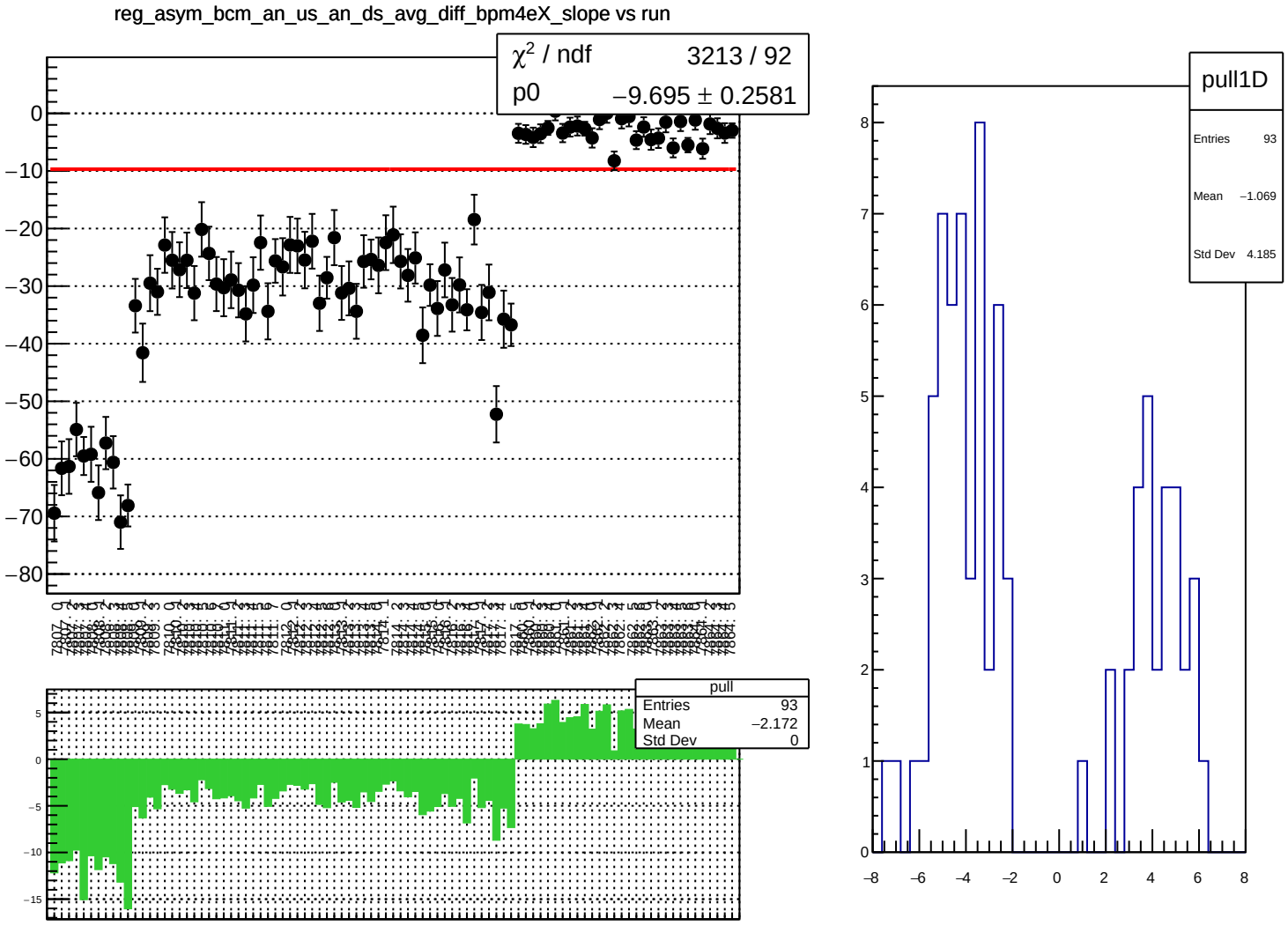

pull1D
Entries 93
Mean 0.8922
Std Dev 2.167

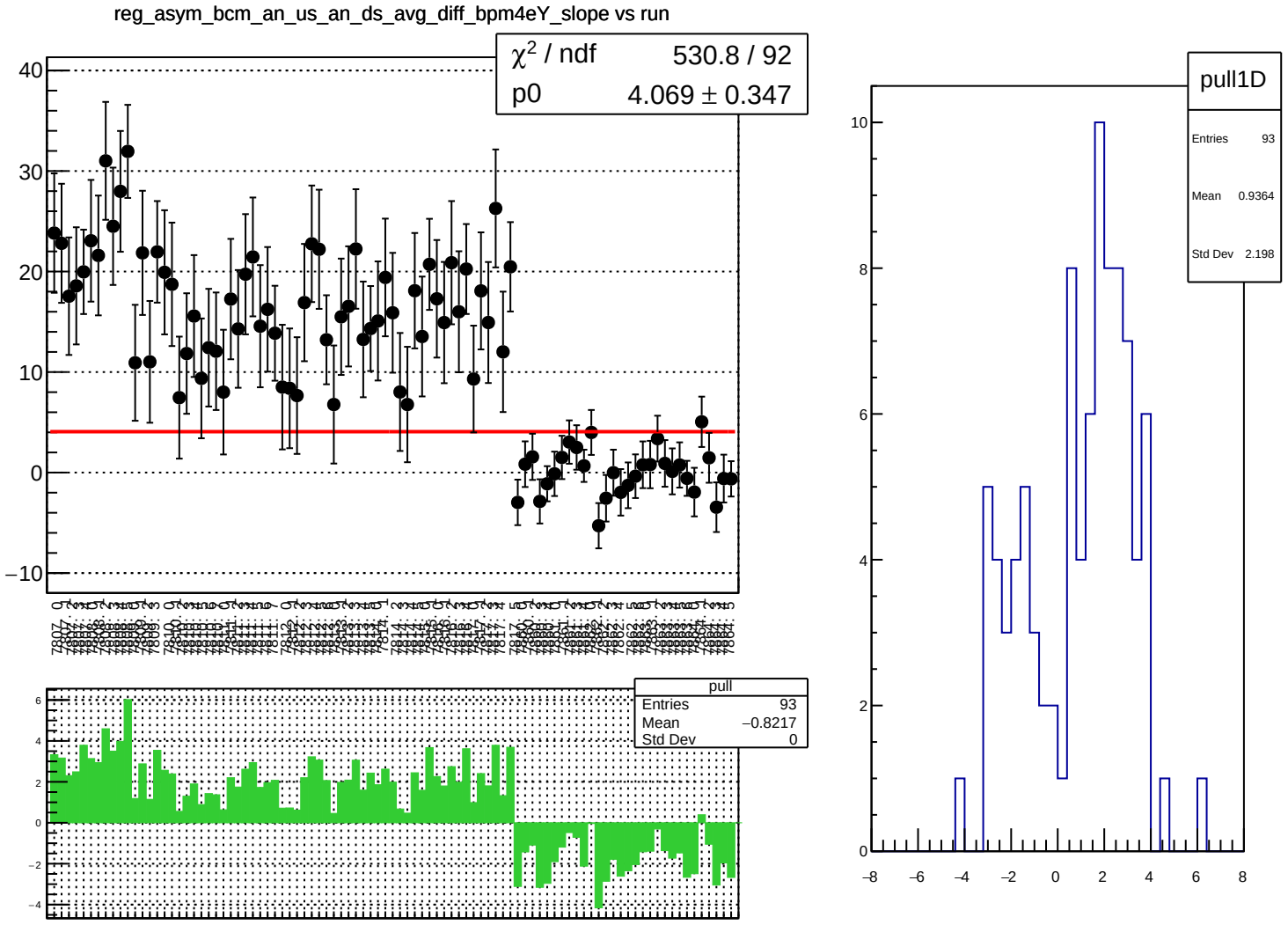

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 1163 / 92
p0 0.09084 ± 0.003559
pull
Entries 93
Mean −17.56
Std Dev 0
pull1D
Entries 93
Mean 0.6466
Std Dev 2.761

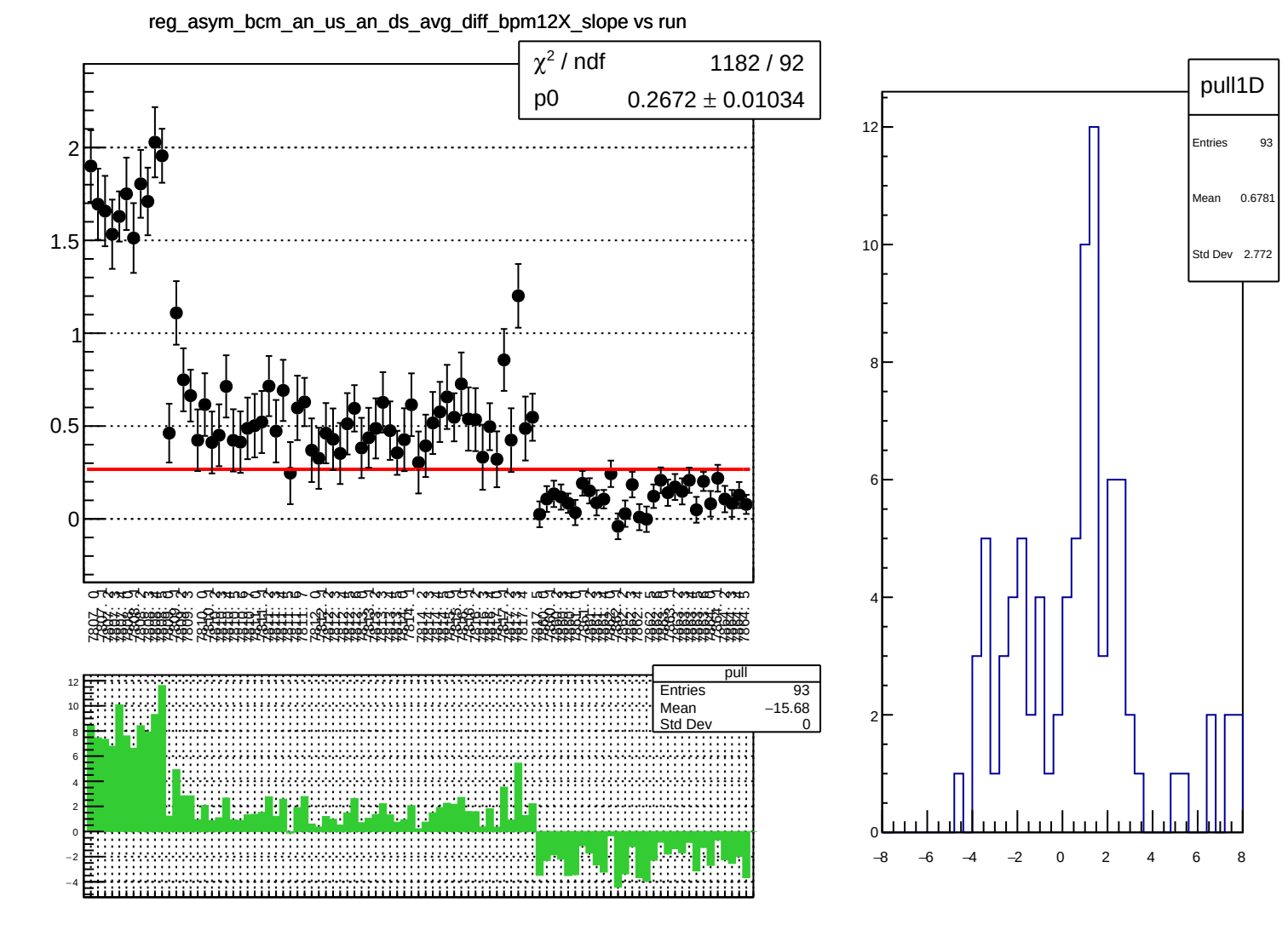

reg_asym_bcm_an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 3136 / 92
p0 11.16 ± 0.2922
pull
Entries 93
Mean −4.319
Std Dev 0
pull1D
Entries 93
Mean 0.9478
Std Dev 4.132

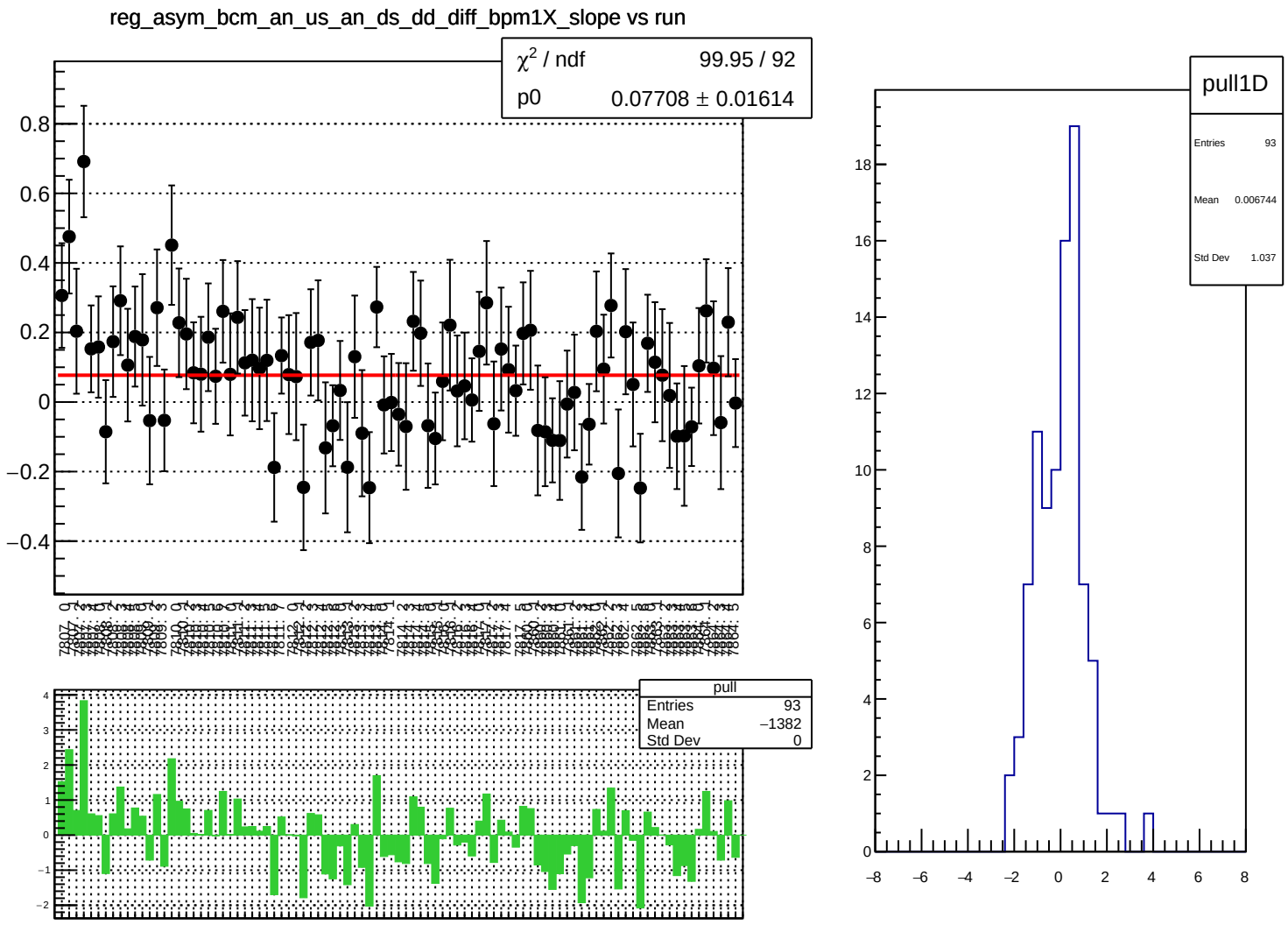

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 524.9 / 92
p0 −3.646 ± 0.3017
pull
Entries 93
Mean −0.0008266
Std Dev 0

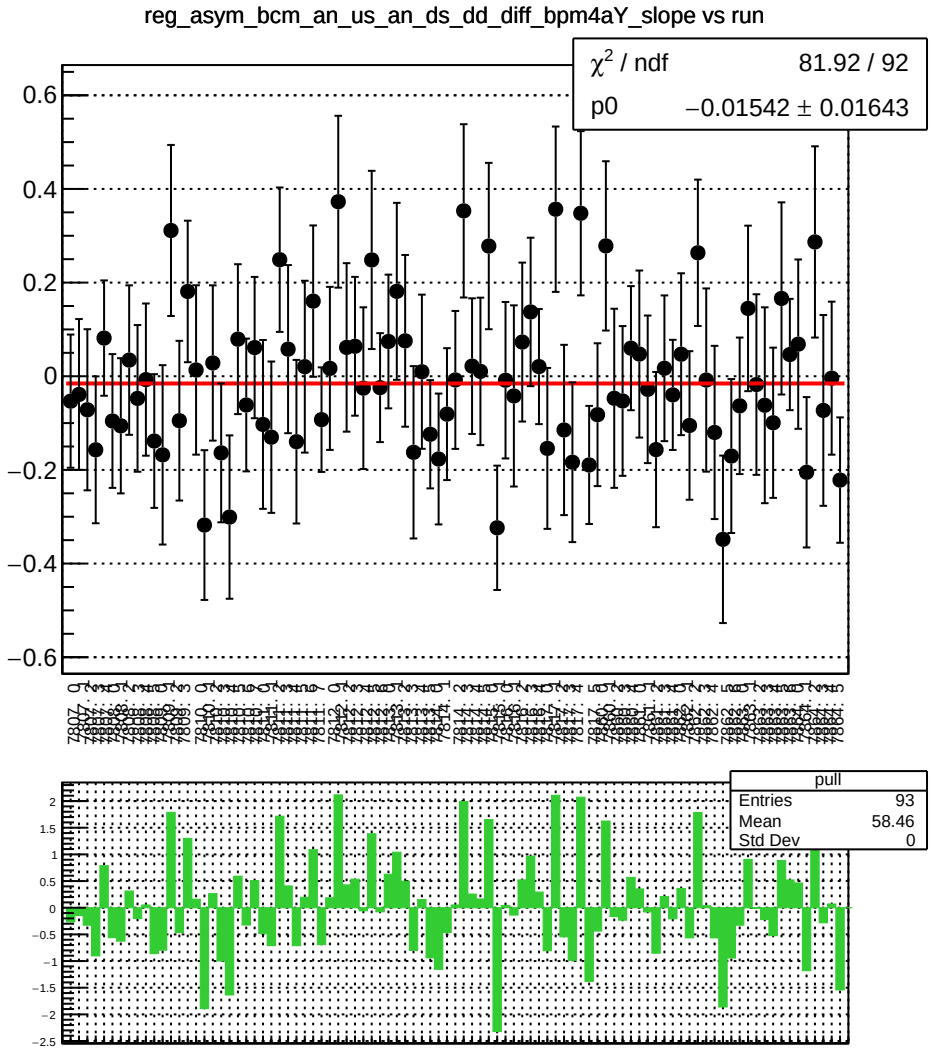

pull1D
Entries 93
Mean −0.9346
Std Dev 2.184

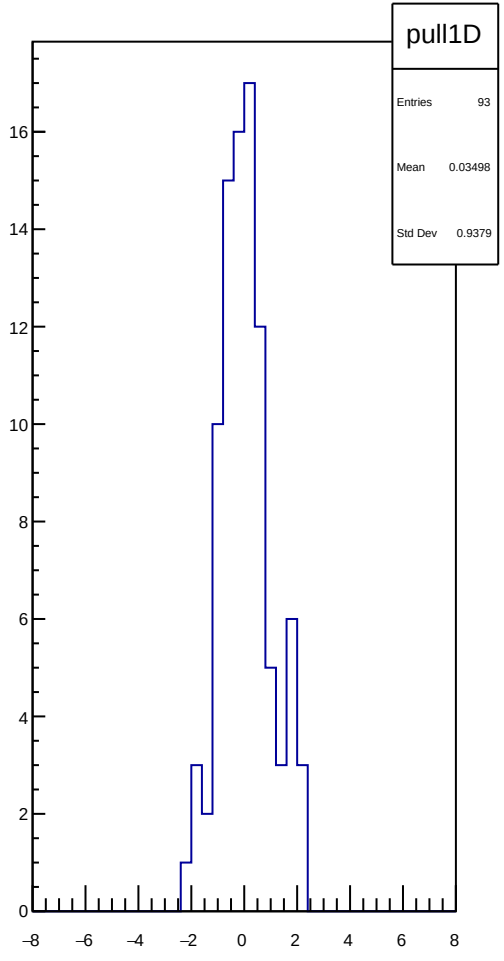

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 3213 / 92
p0 −9.695 ± 0.2581
pull
Entries 93
Mean −2.172
Std Dev 0
pull1D
Entries 93
Mean −1.069
Std Dev 4.185

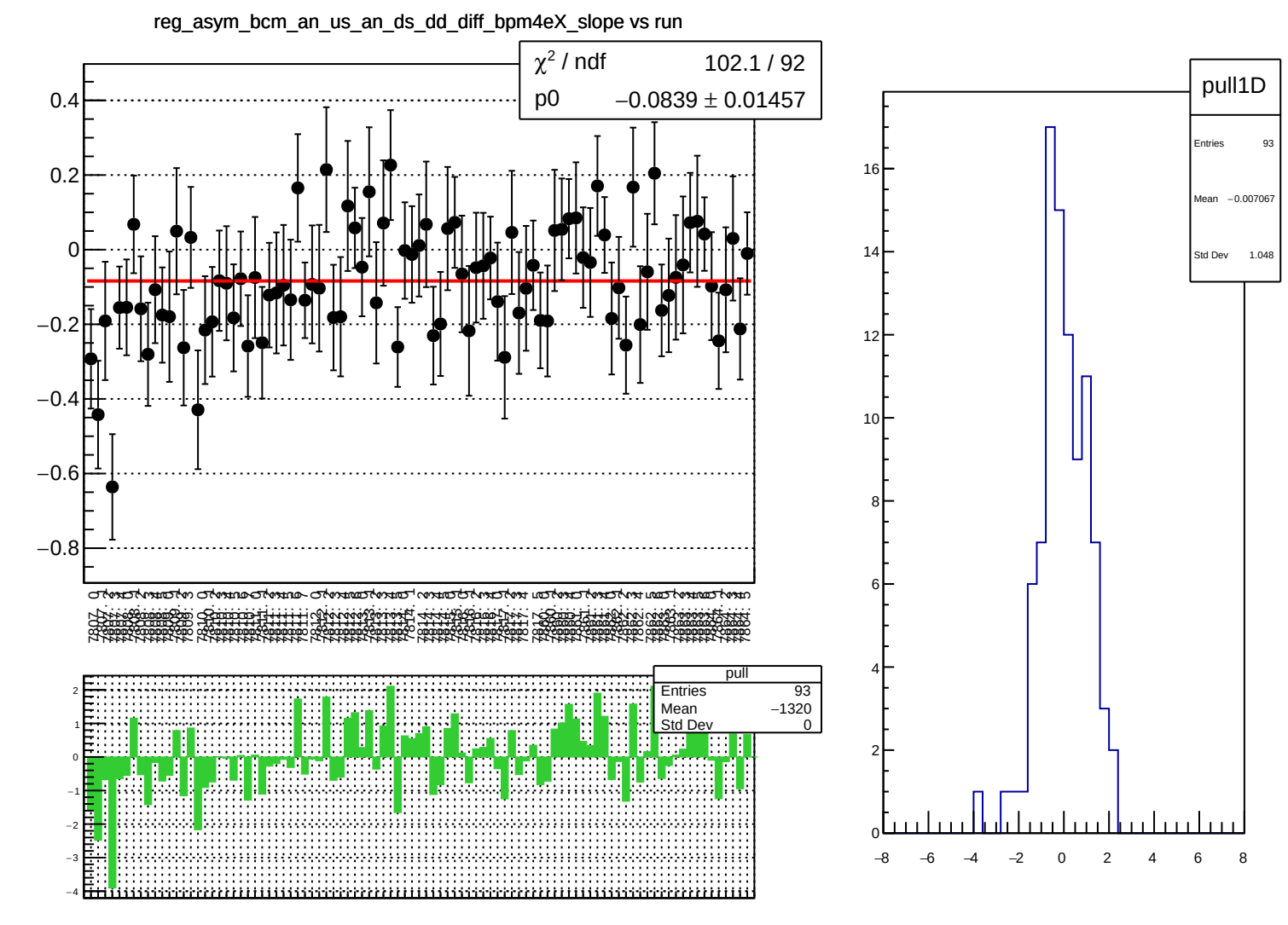

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 530.8 / 92
p0 4.069 ± 0.347
pull
Entries 93
Mean −0.8217
Std Dev 0
pull1D
Entries 93
Mean 0.9364
Std Dev 2.198

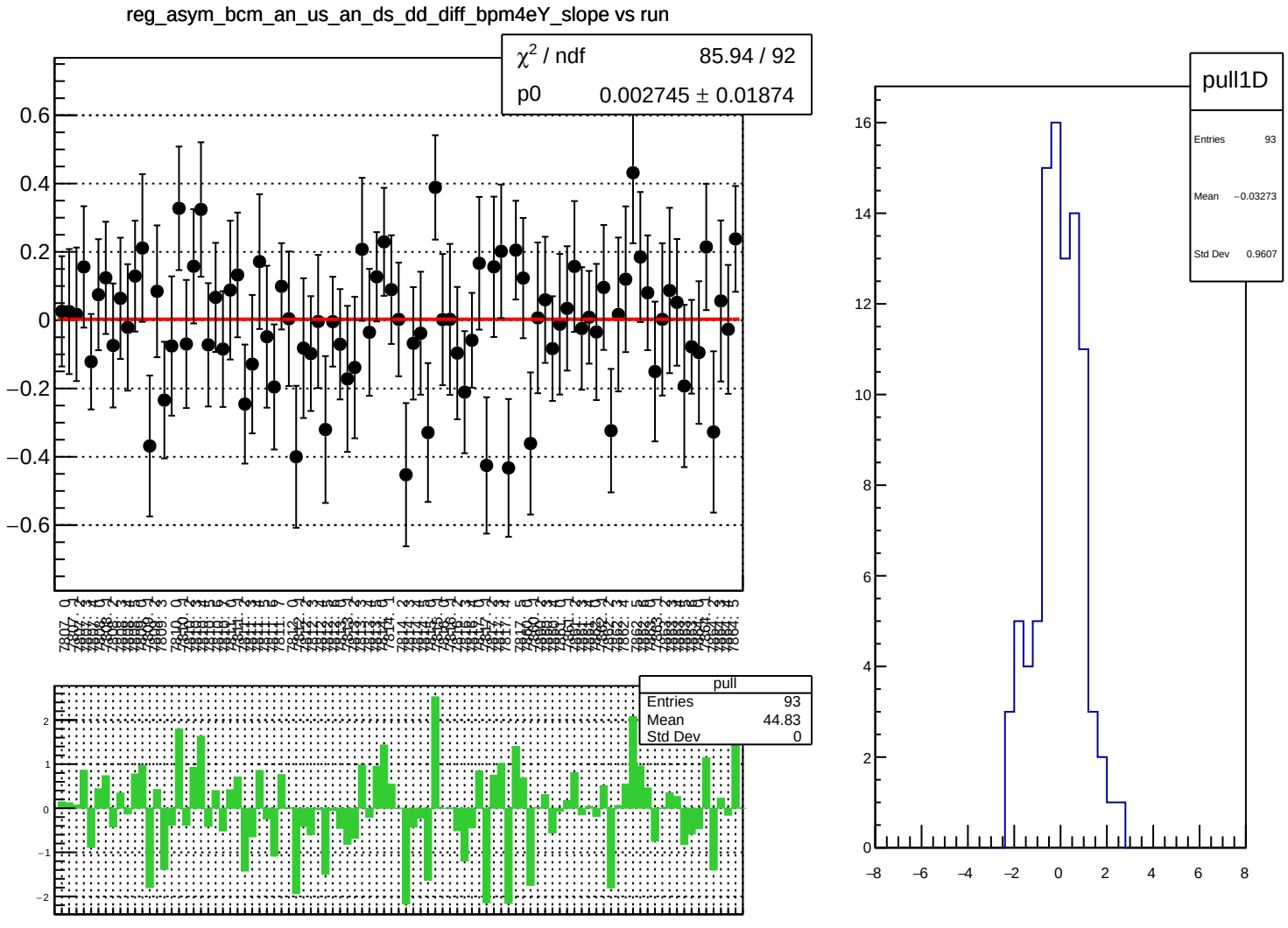

reg_asym_bcm_an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 1182 / 92
p0 0.2672 ± 0.01034
pull
Entries 93
Mean −15.68
Std Dev 0
pull1D
Entries 93
Mean 0.6781
Std Dev 2.772

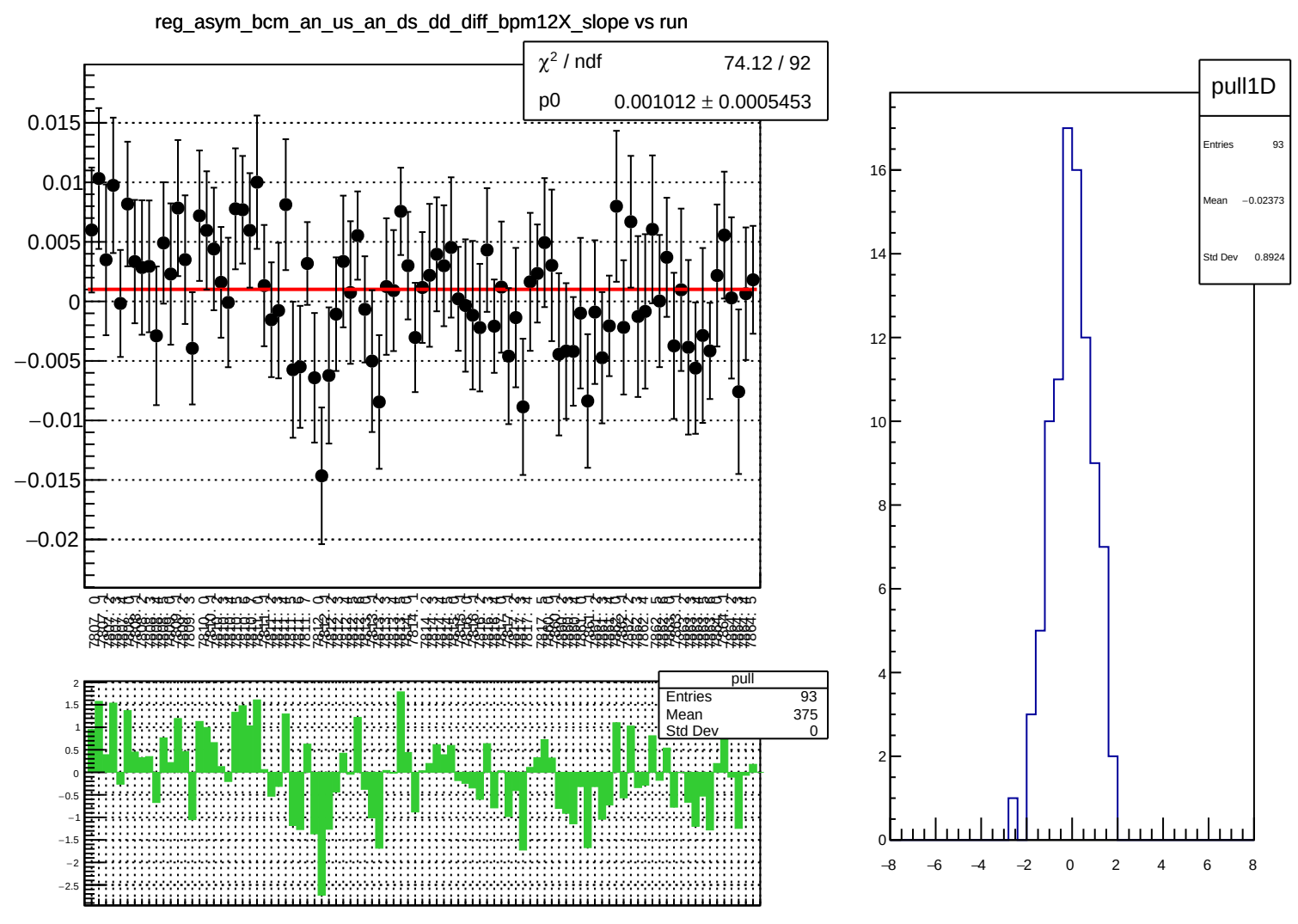

reg_asym_bcm_an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 99.95 / 92
p0 0.07708 ± 0.01614
pull
Entries 93
Mean −1382
Std Dev 0
pull1D
Entries 93
Mean 0.006744
Std Dev 1.037

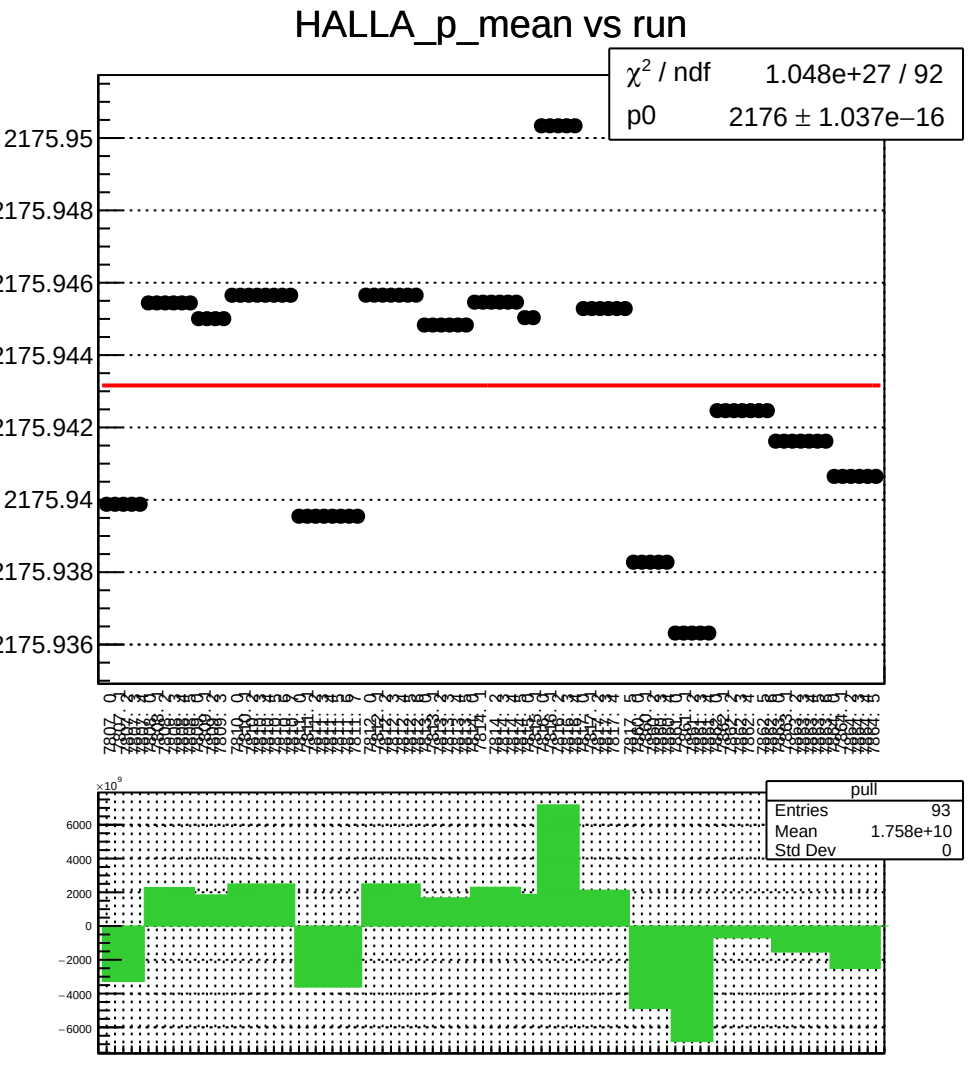

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 81.92 / 92
p0 −0.01542 ± 0.01643
pull
Entries 93
Mean 58.46
Std Dev 0

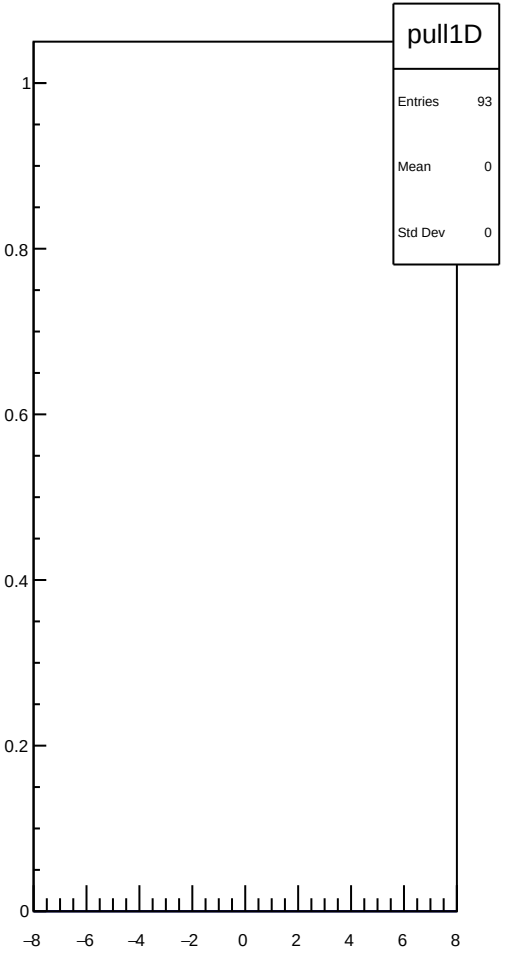

pull1D
Entries 93
Mean 0.03498
Std Dev 0.9379

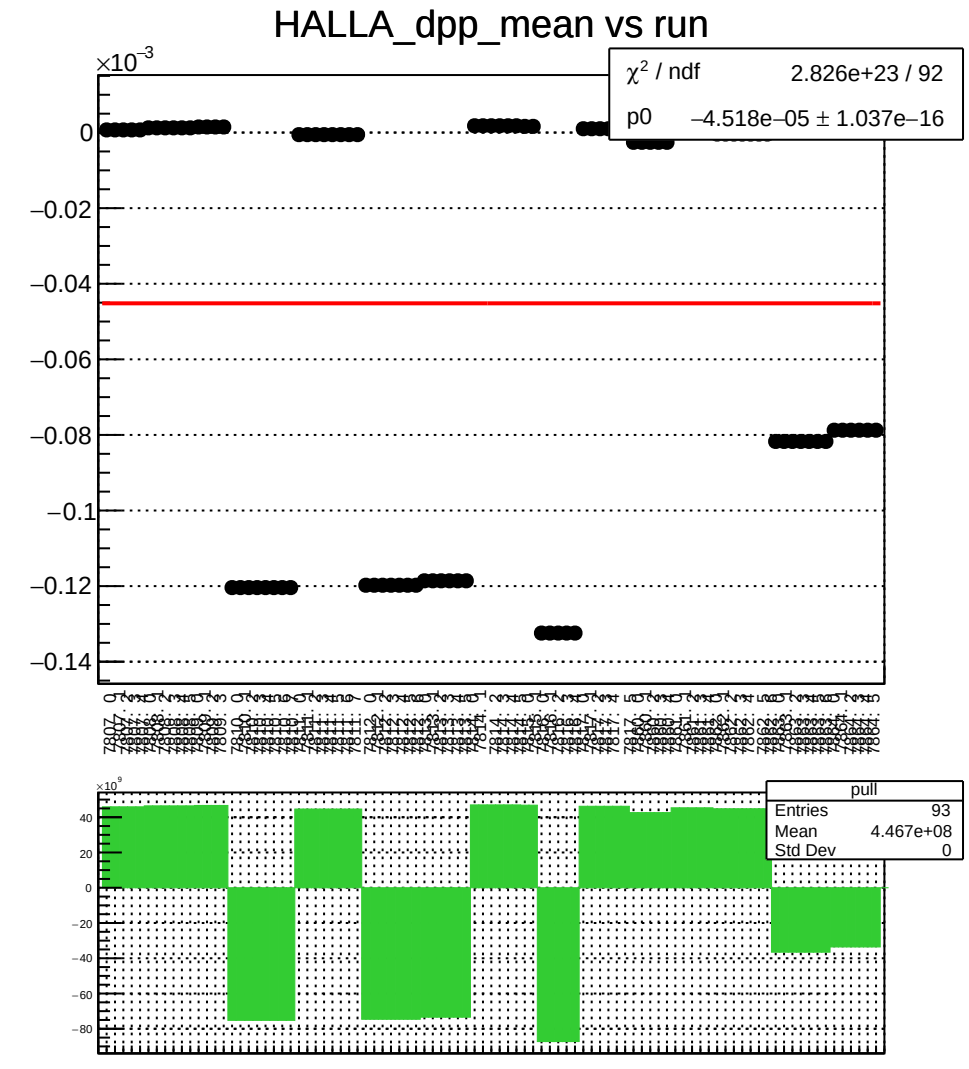

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 102.1 / 92
p0 −0.0839 ± 0.01457
pull
Entries 93
Mean −1320
Std Dev 0
pull1D
Entries 93
Mean −0.007067
Std Dev 1.048

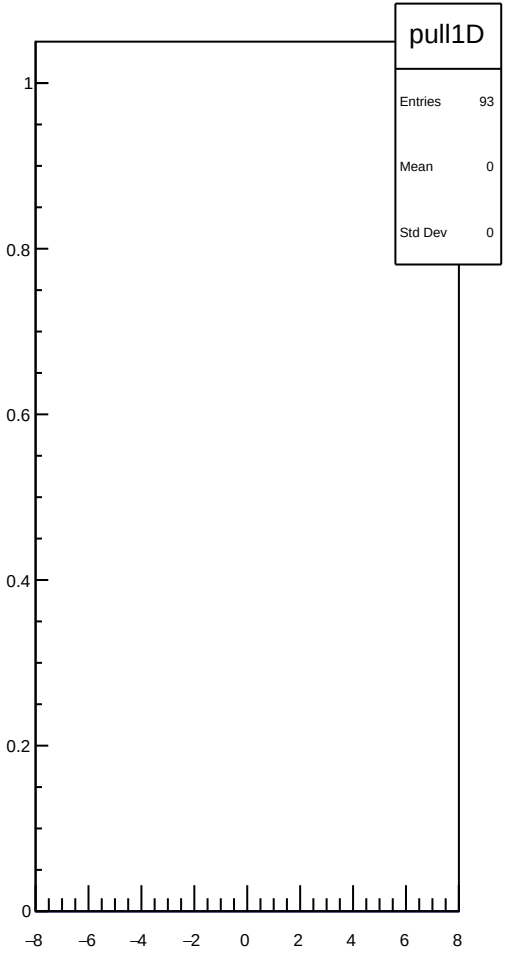

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 85.94 / 92
p0 0.002745 ± 0.01874
pull
Entries 93
Mean 44.83
Std Dev 0
pull1D
Entries 93
Mean −0.03273
Std Dev 0.9607

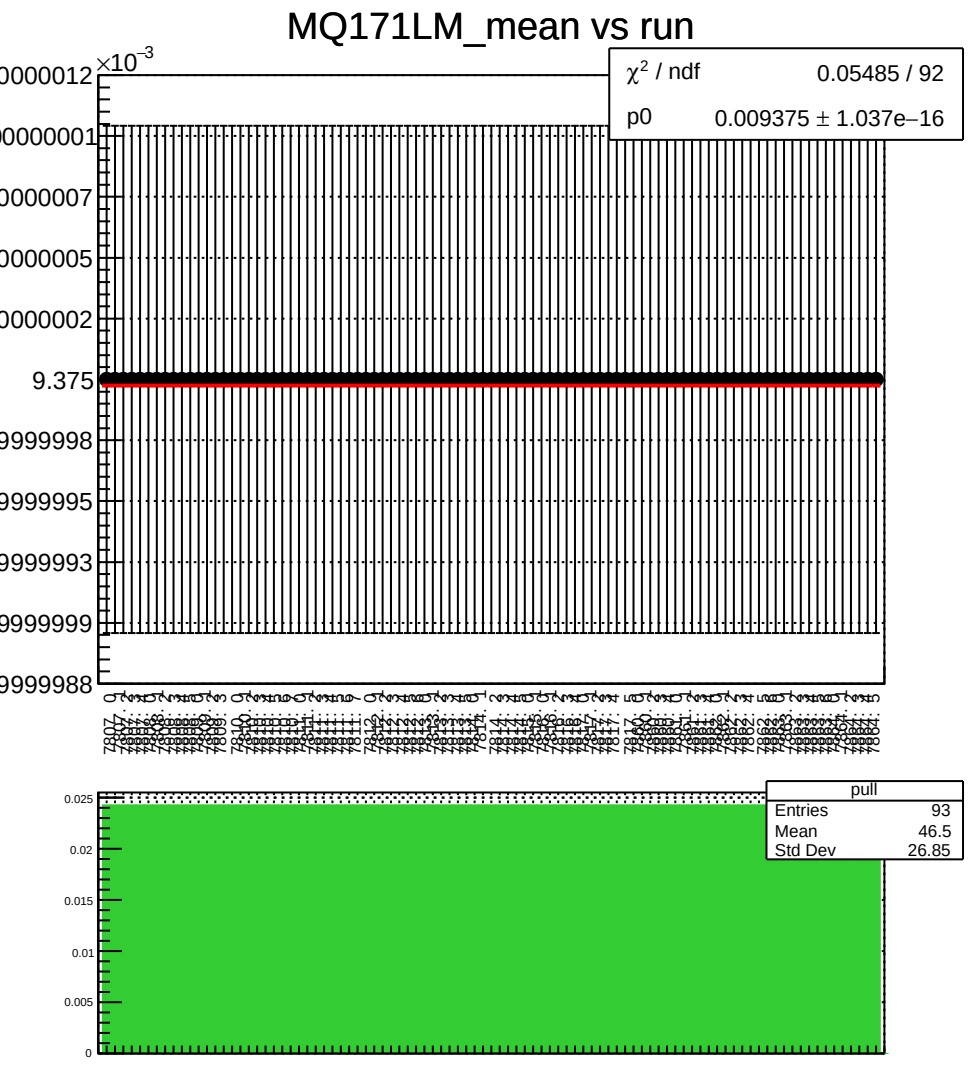

reg_asym_bcm_an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 74.12 / 92
p0 0.001012 ± 0.0005453
pull
Entries 93
Mean 375
Std Dev 0
pull1D
Entries 93
Mean −0.02373
Std Dev 0.8924

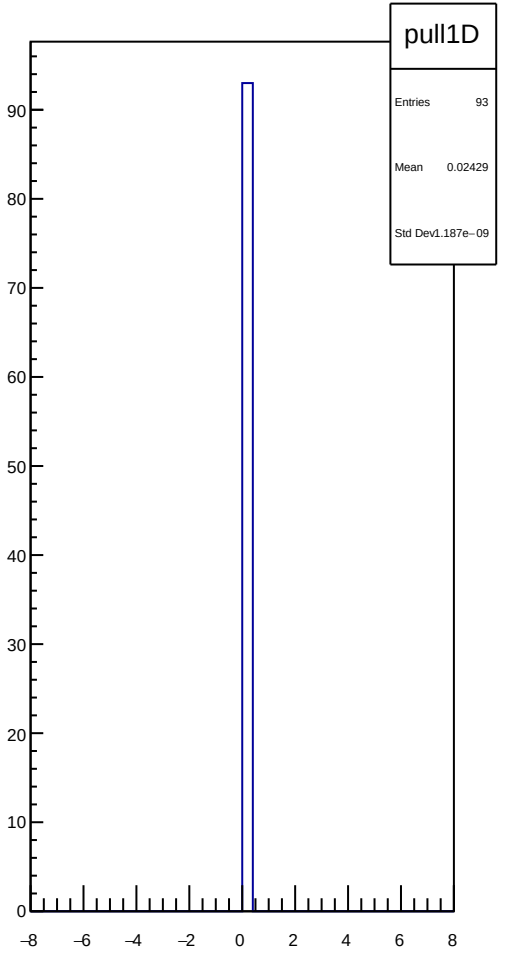

HALLA_p_mean vs run
χ² / ndf 1.048e+27 / 92
p0 2176 ± 1.037e−16
2175.95
2175.948
2175.946
2175.944
2175.942
2175.94
2175.938
2175.936
pull
Entries 93
Mean 1.758e+10
Std Dev 0
×10⁹
6000
4000
2000
0
−2000
−4000
−6000

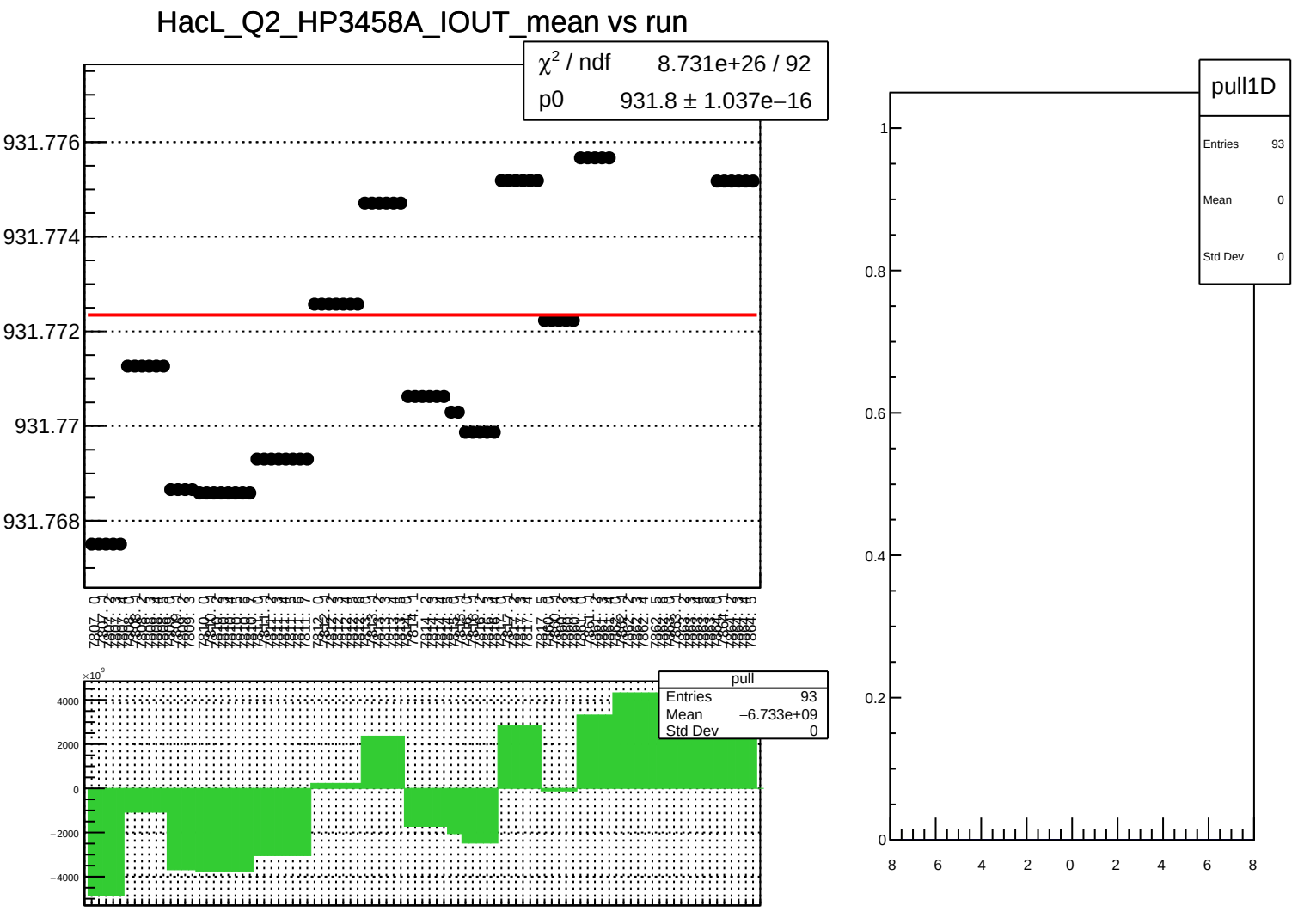

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

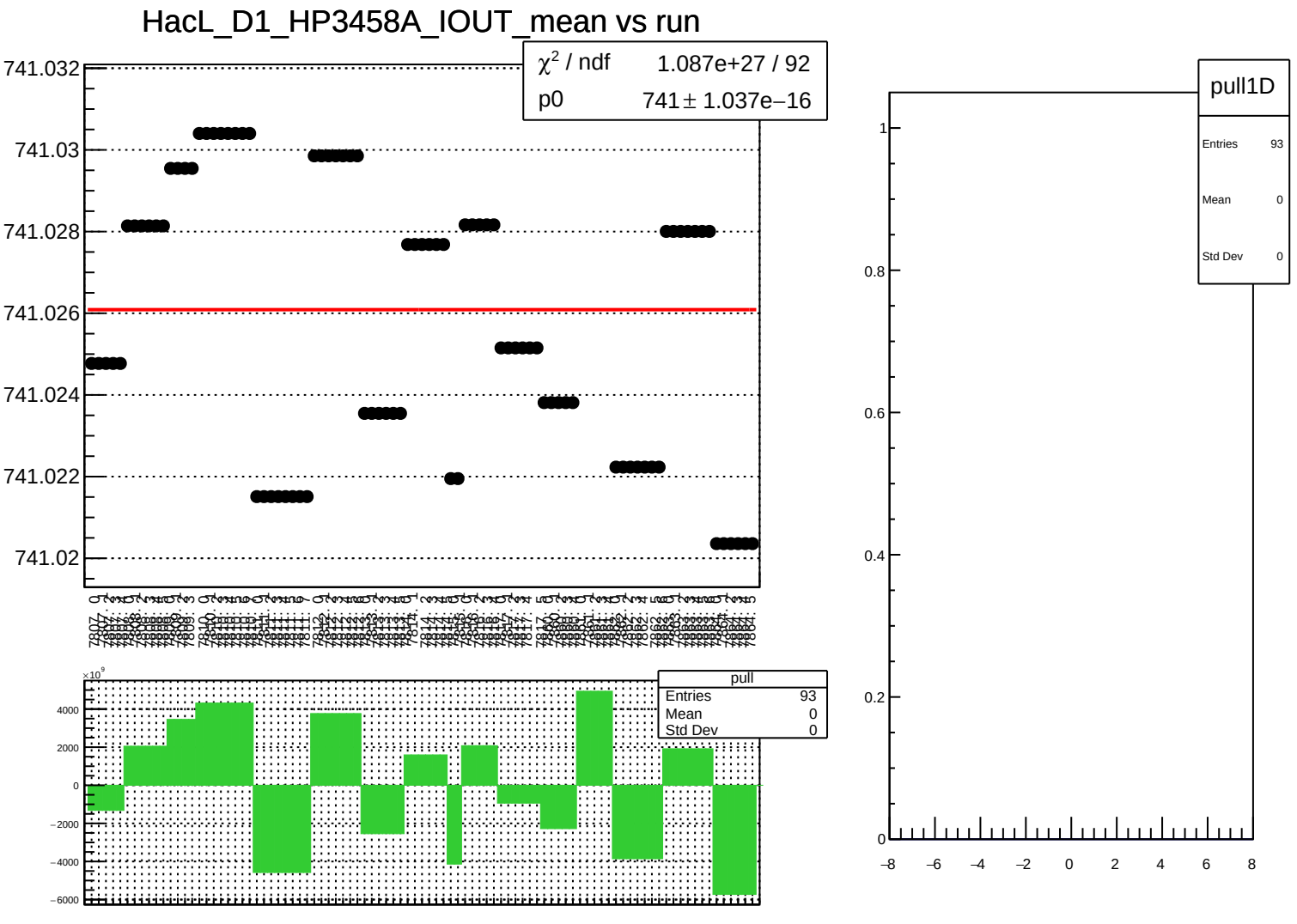

HALLA_dpp_mean vs run
×10⁻³
χ² / ndf 2.826e+23 / 92
p0 −4.518e−05 ± 1.037e−16
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
−0.14
×10⁹
40
20
0
−20
−40
−60
−80
pull
Entries 93
Mean 4.467e+08
Std Dev 0

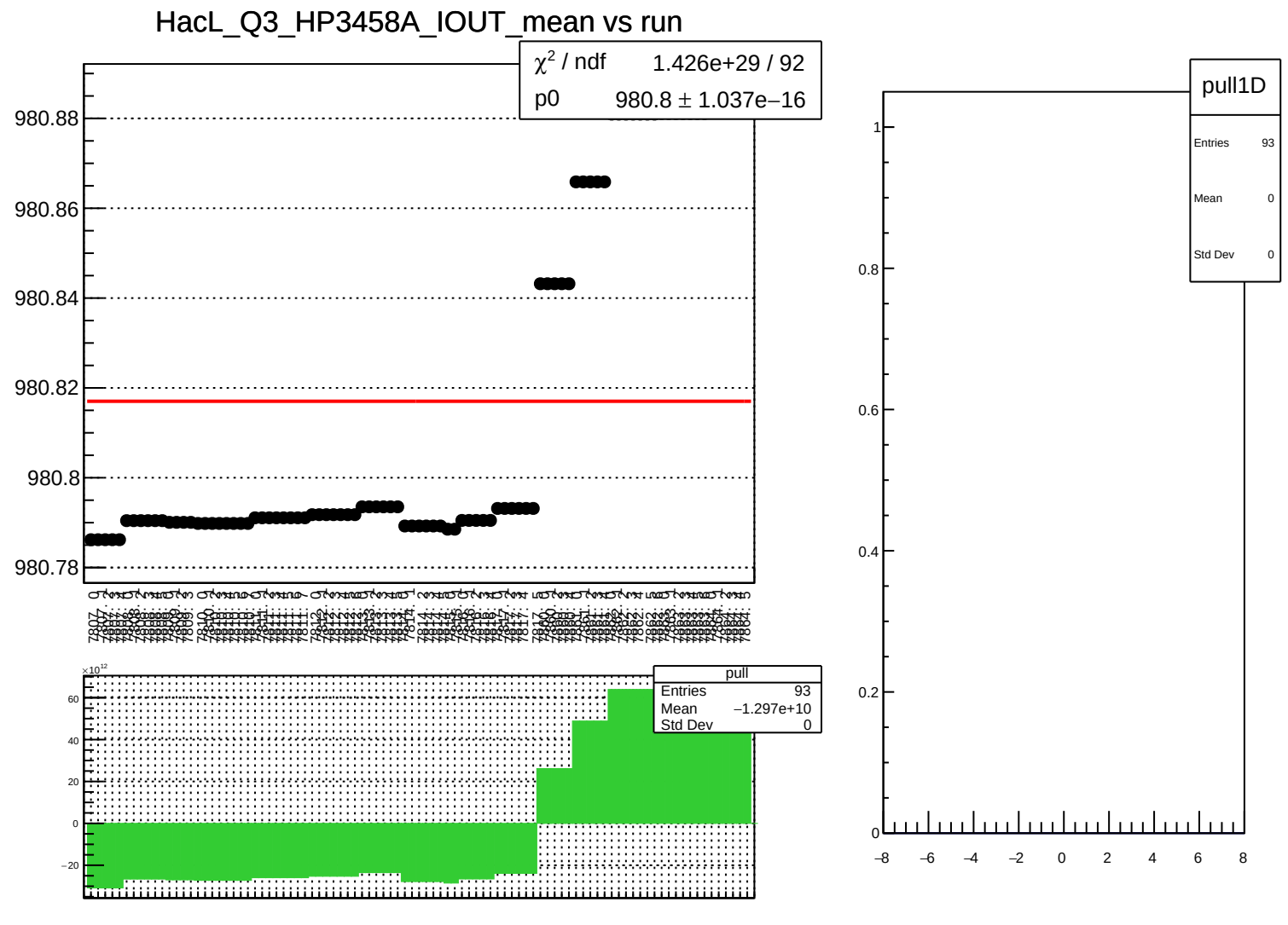

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


MQ171LM_mean vs run
χ² / ndf 0.05485 / 92
p0 0.009375 ± 1.037e−16
×10⁻³
pull
Entries 93
Mean 46.5
Std Dev 26.85

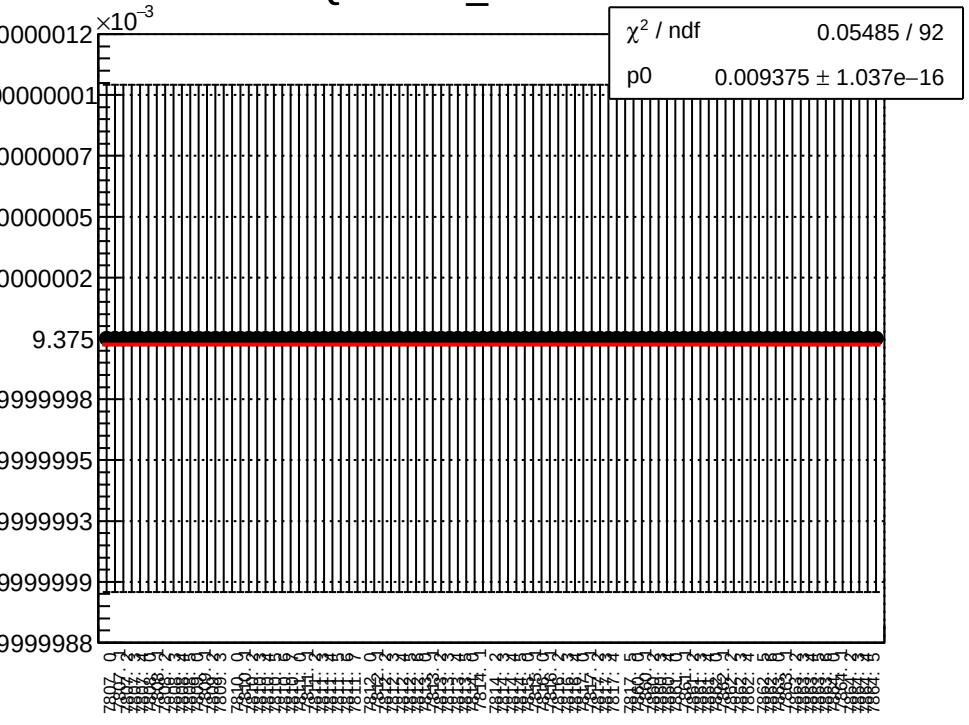

pull1D
Entries 93
Mean 0.02429
Std Dev1.187e−09

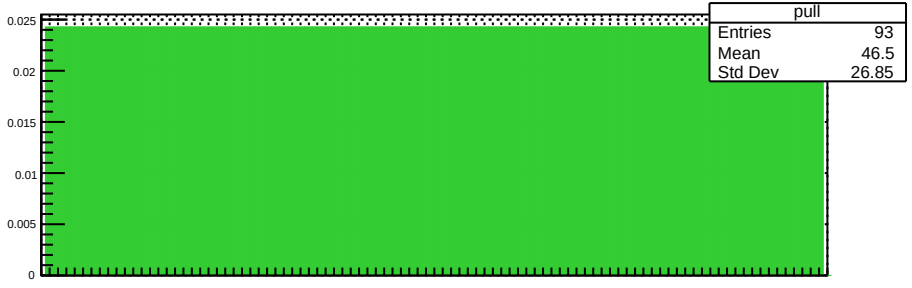

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 8.731e+26 / 92
p0 931.8 ± 1.037e−16
931.776
931.774
931.772
931.77
931.768
×10⁹
4000
2000
0
−2000
−4000
pull
Entries 93
Mean −6.733e+09
Std Dev 0
pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

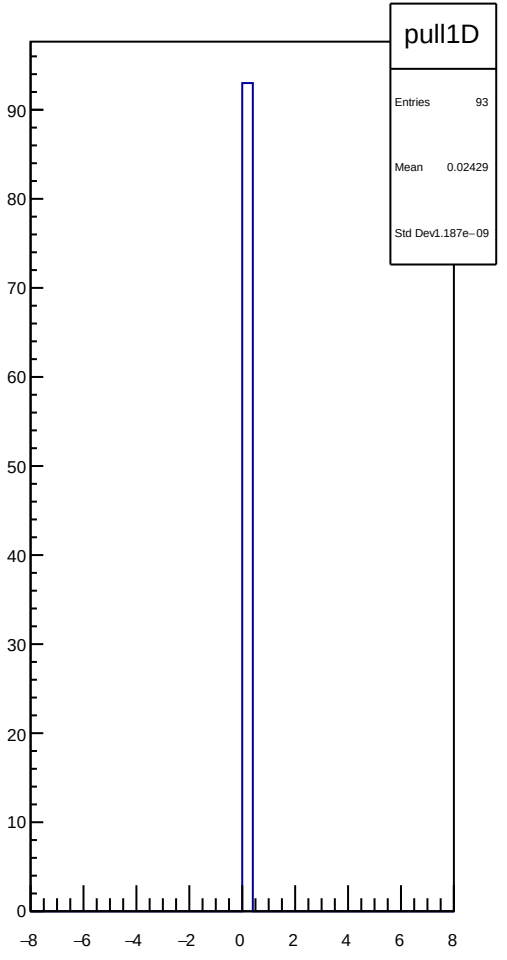

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 1.087e+27 / 92
p0 741 ± 1.037e−16
741.032
741.03
741.028
741.026
741.024
741.022
741.02
×10⁹
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean 0
Std Dev 0
pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

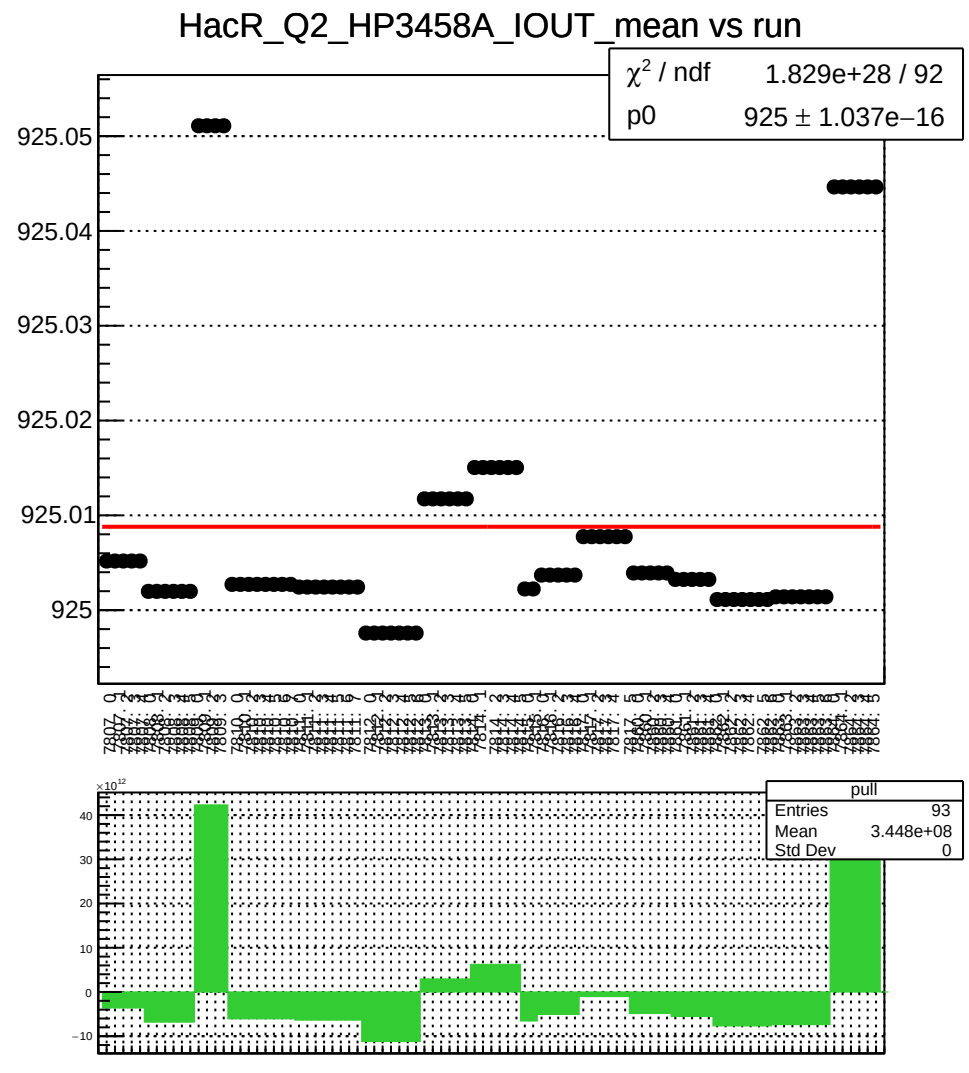

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 1.426e+29 / 92
p0 980.8 ± 1.037e−16
980.88
980.86
980.84
980.82
980.8
980.78
×10¹²
60
40
20
0
−20
pull
Entries 93
Mean −1.297e+10
Std Dev 0
pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

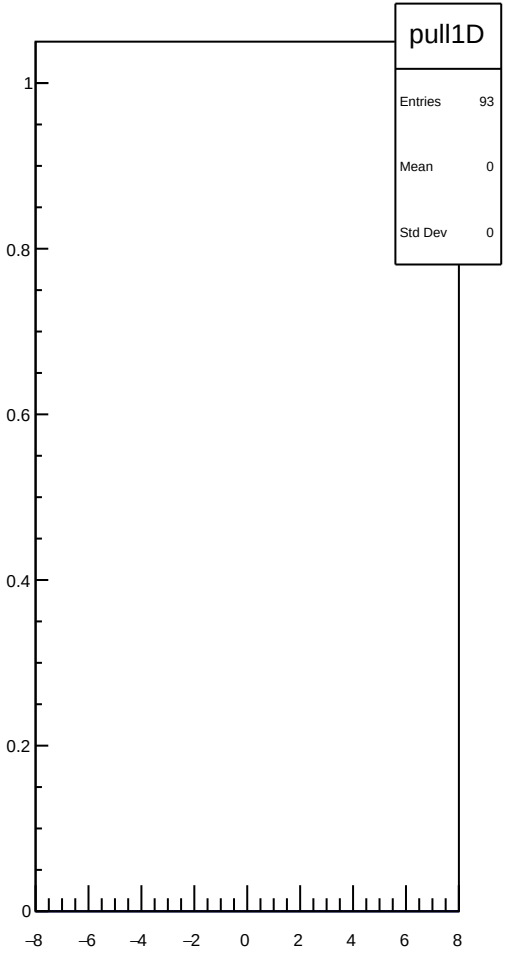
MQ172RM_mean vs run

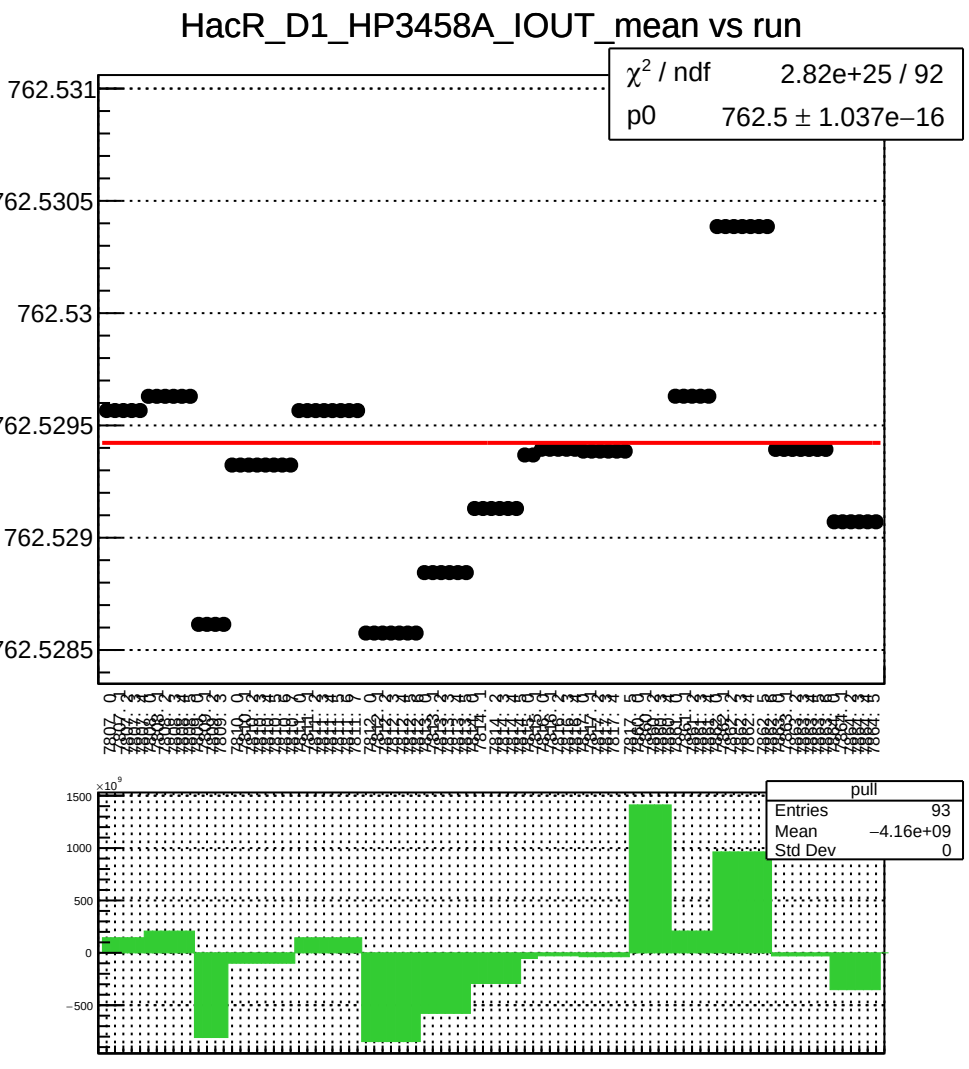


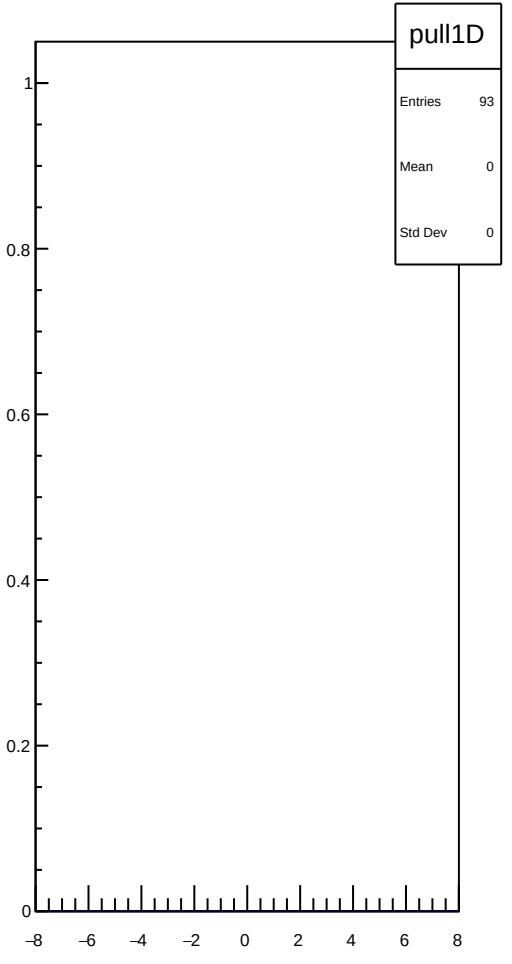


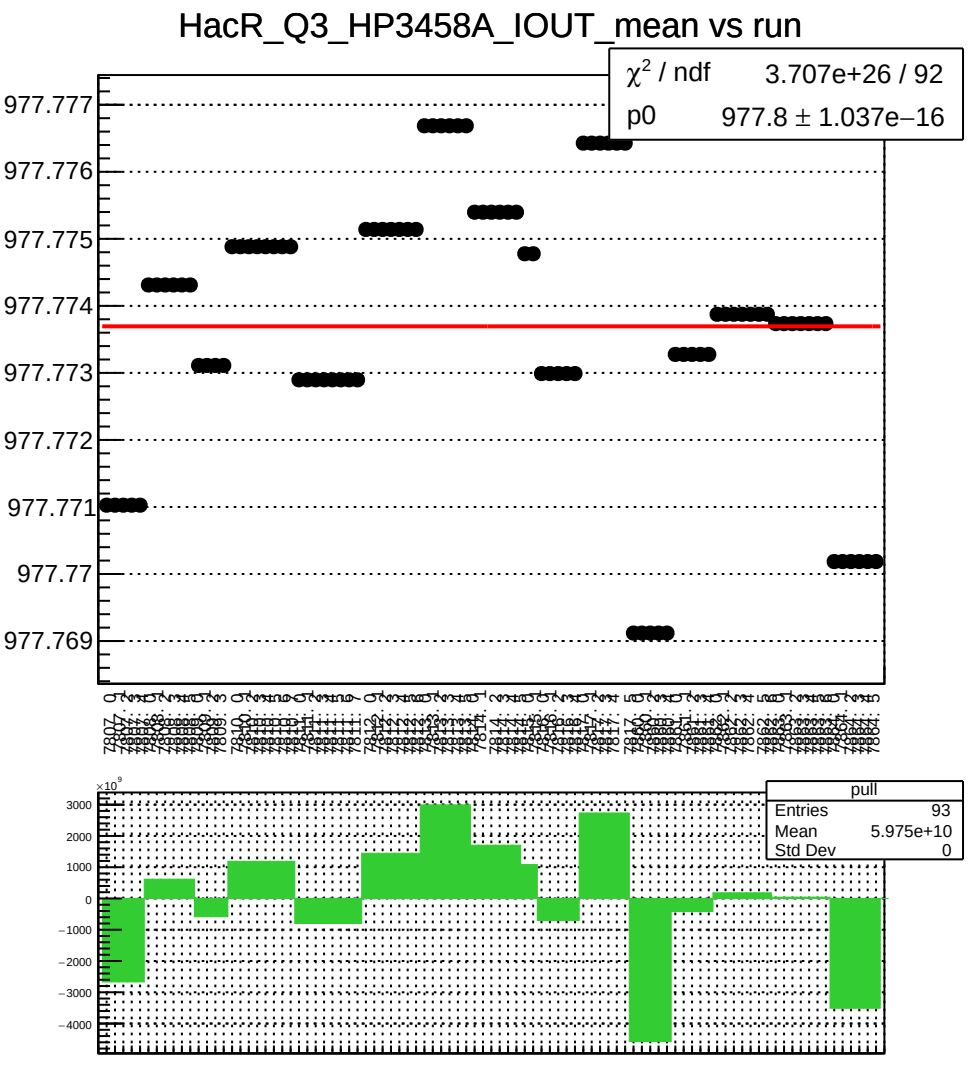


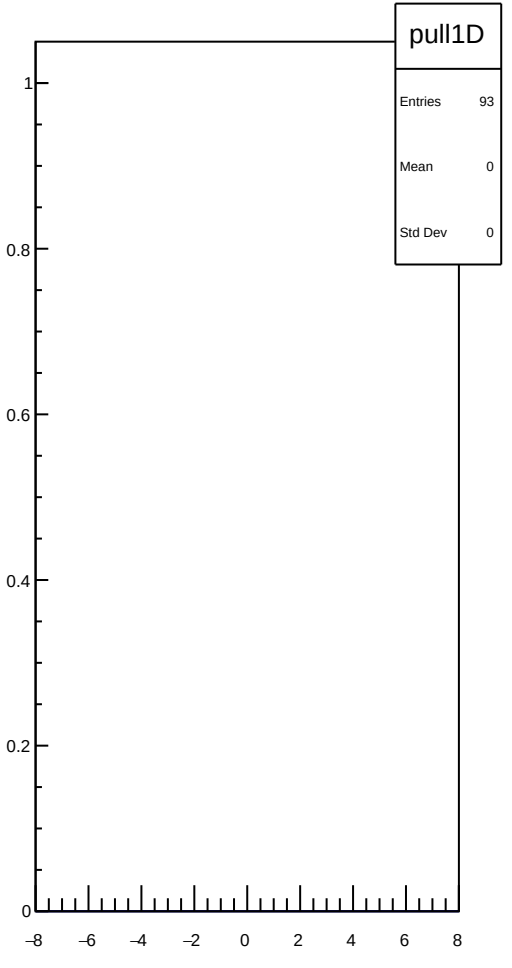

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 1.829e+28 / 92
p0 925 ± 1.037e−16
925.05
925.04
925.03
925.02
925.01
925
pull
Entries 93
Mean 3.448e+08
Std Dev 0
×10¹²
40
30
20
10
0
−10

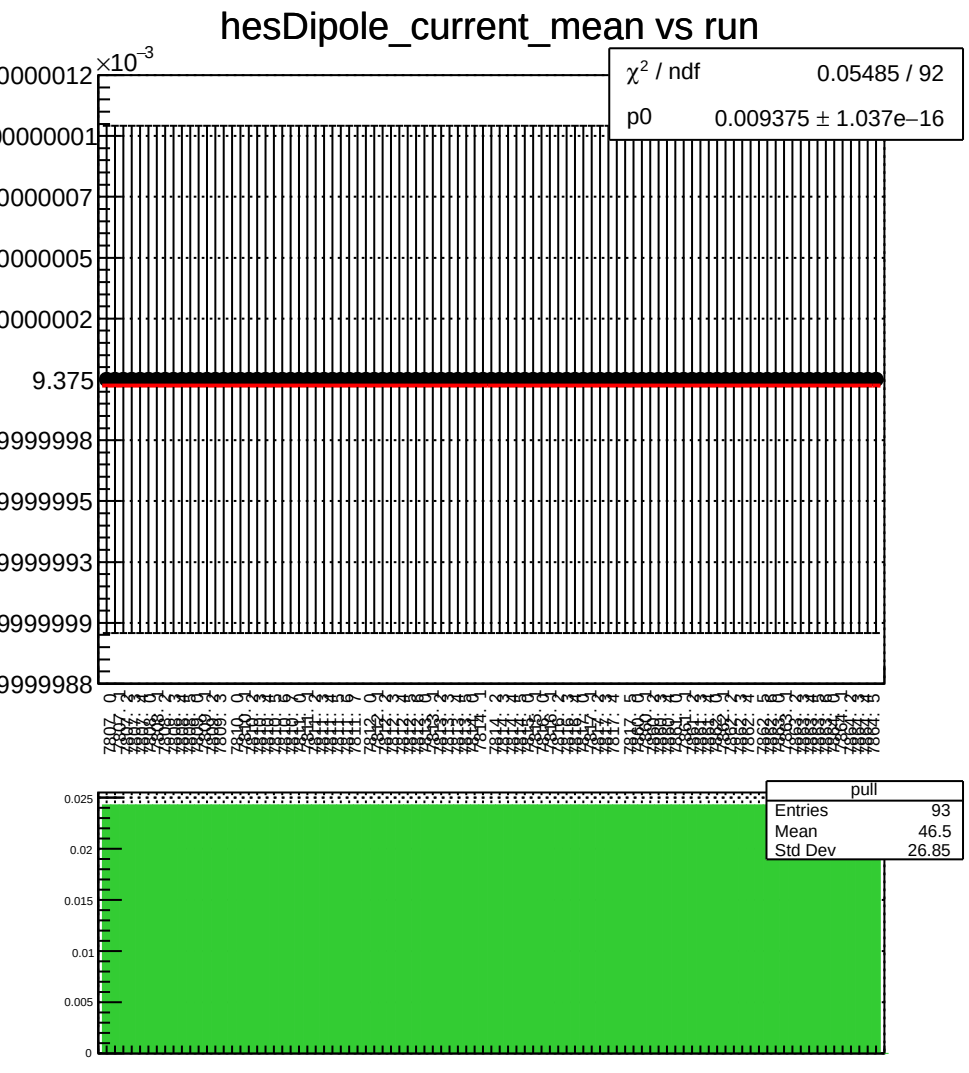

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

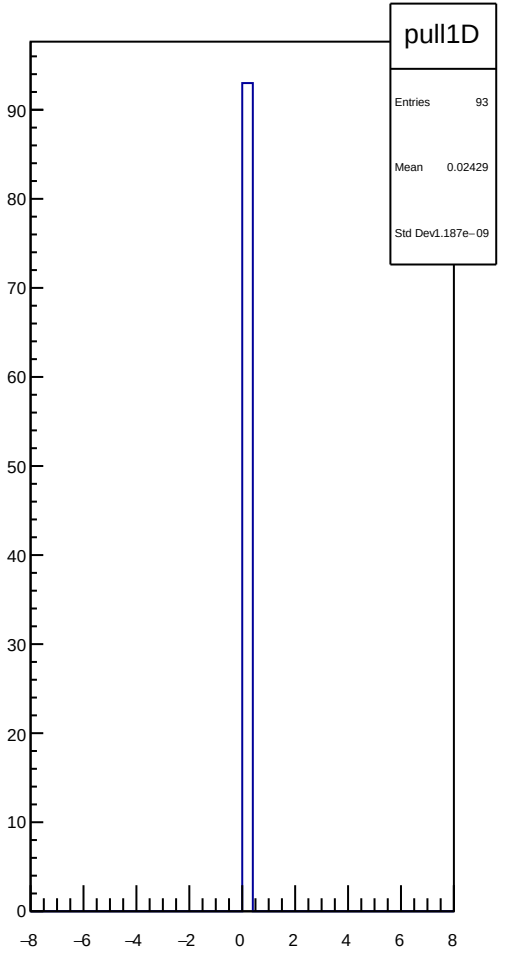

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 2.82e+25 / 92
p0 762.5 ± 1.037e−16
762.531
762.5305
762.53
762.5295
762.529
762.5285
×10⁹
1500
1000
500
0
−500
pull
Entries 93
Mean −4.16e+09
Std Dev 0

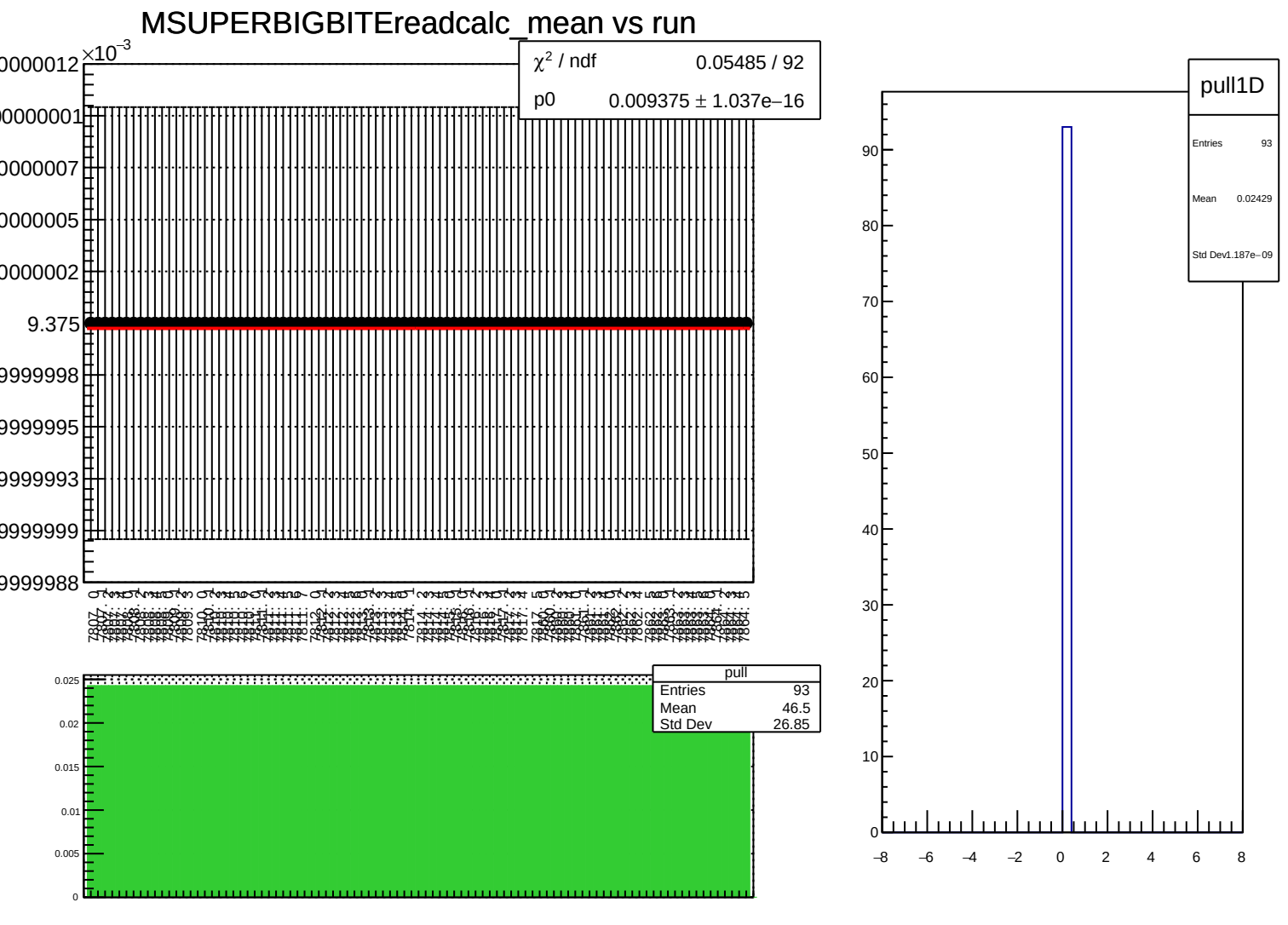

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

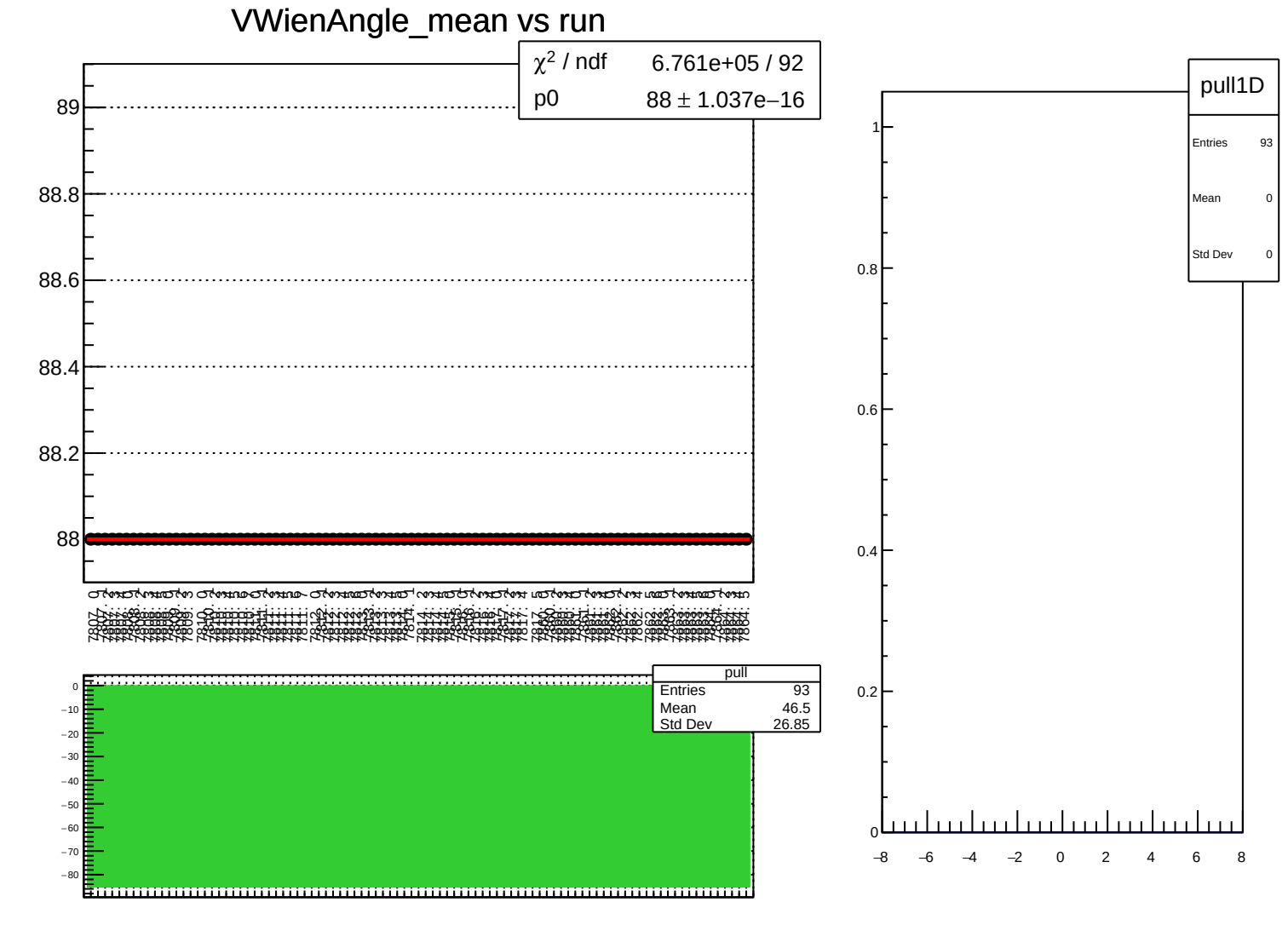

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 3.707e+26 / 92
p0 977.8 ± 1.037e−16
977.777
977.776
977.775
977.774
977.773
977.772
977.771
977.77
977.769
×10⁹
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 93
Mean 5.975e+10
Std Dev 0

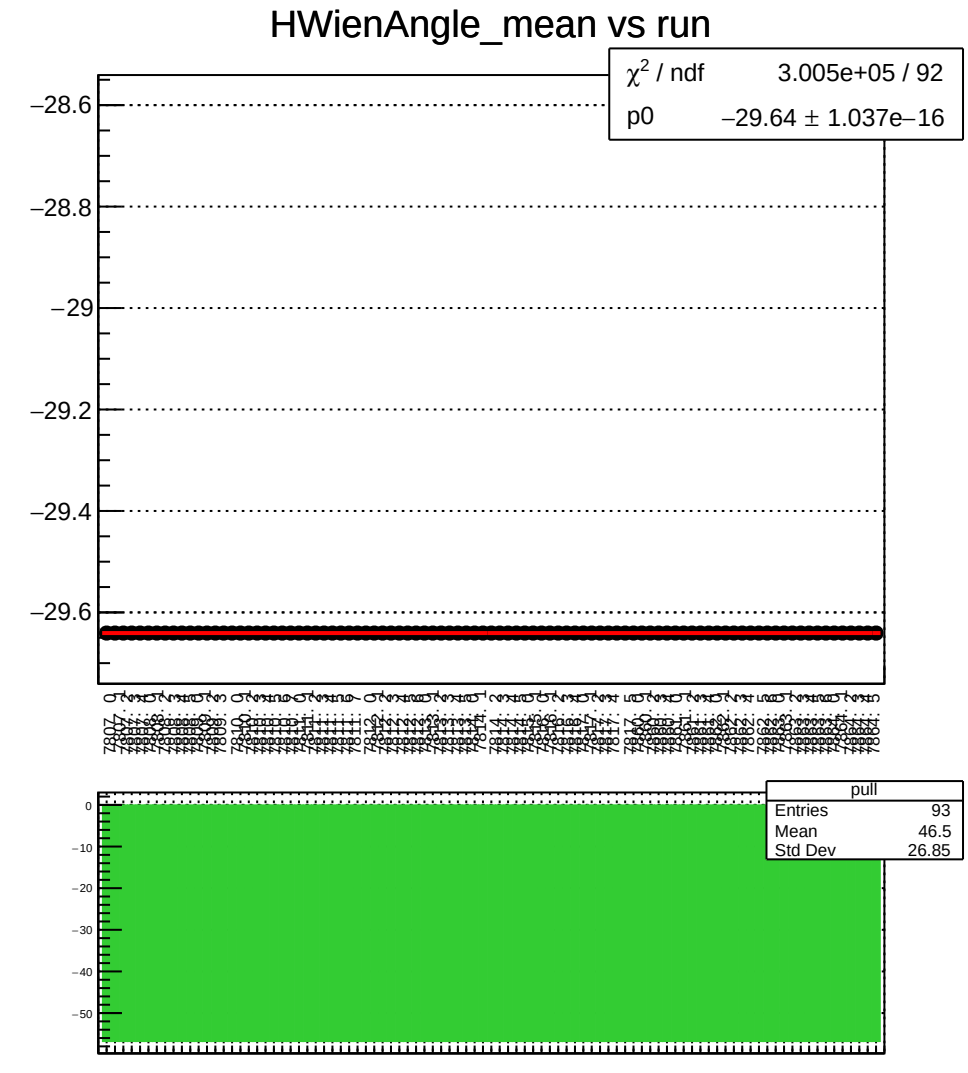

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

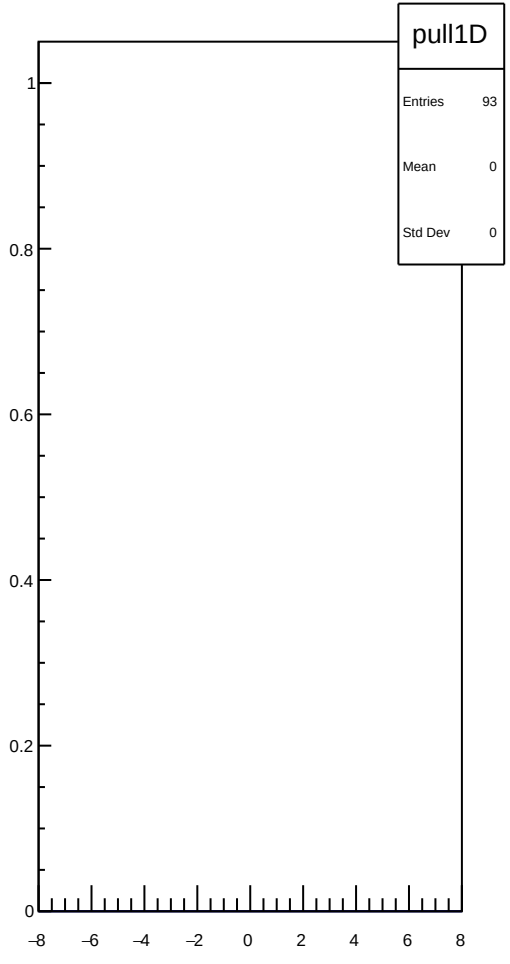

hesDipole_current_mean vs run
χ² / ndf 0.05485 / 92
p0 0.009375 ± 1.037e−16
×10⁻³
pull
Entries 93
Mean 46.5
Std Dev 26.85

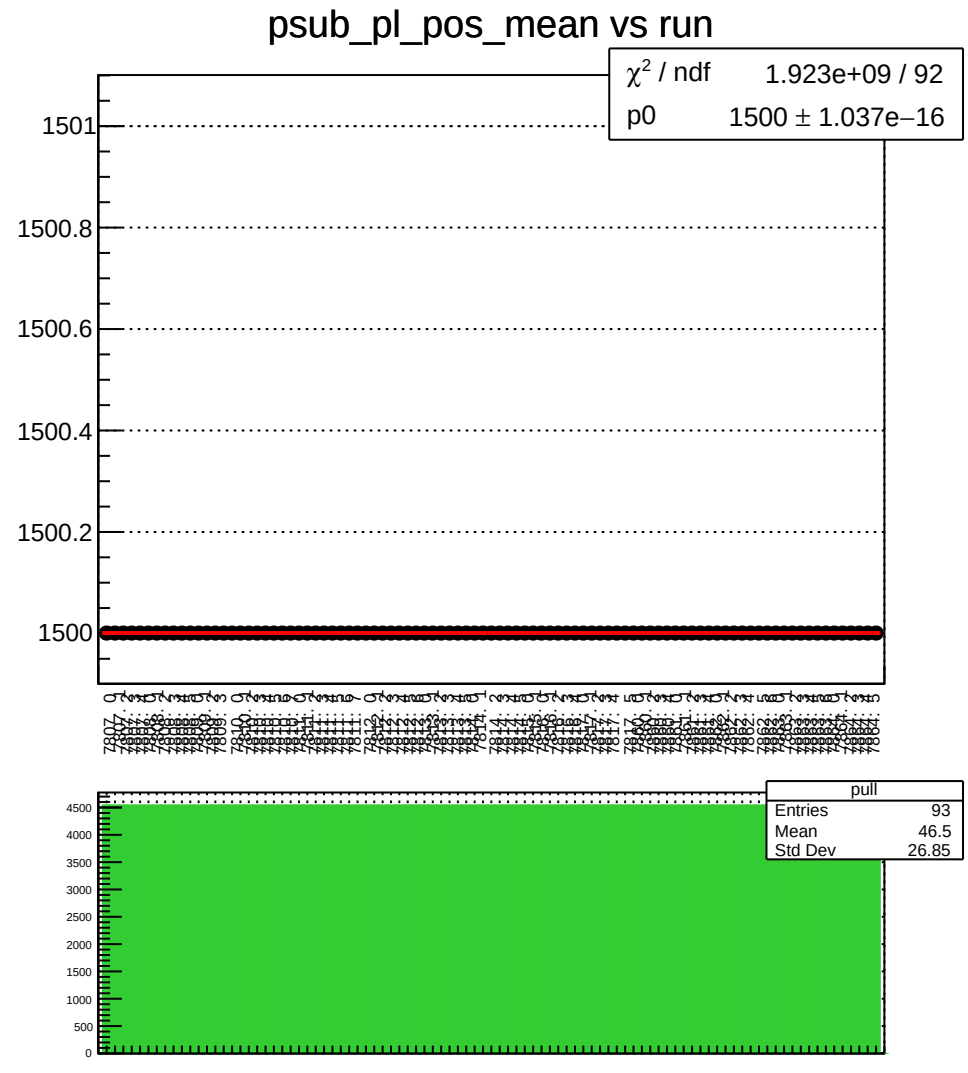

pull1D
Entries 93
Mean 0.02429
Std Dev1.187e−09

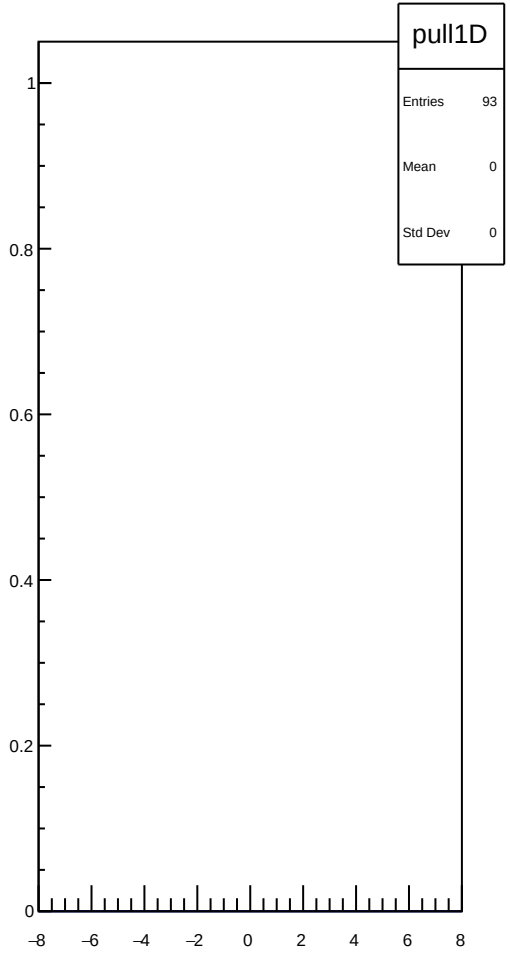

MSUPERBIGBITEreadcalc_mean vs run
χ² / ndf 0.05485 / 92
p0 0.009375 ± 1.037e−16
×10⁻³
pull
Entries 93
Mean 46.5
Std Dev 26.85
pull1D
Entries 93
Mean 0.02429
Std Dev1.187e−09

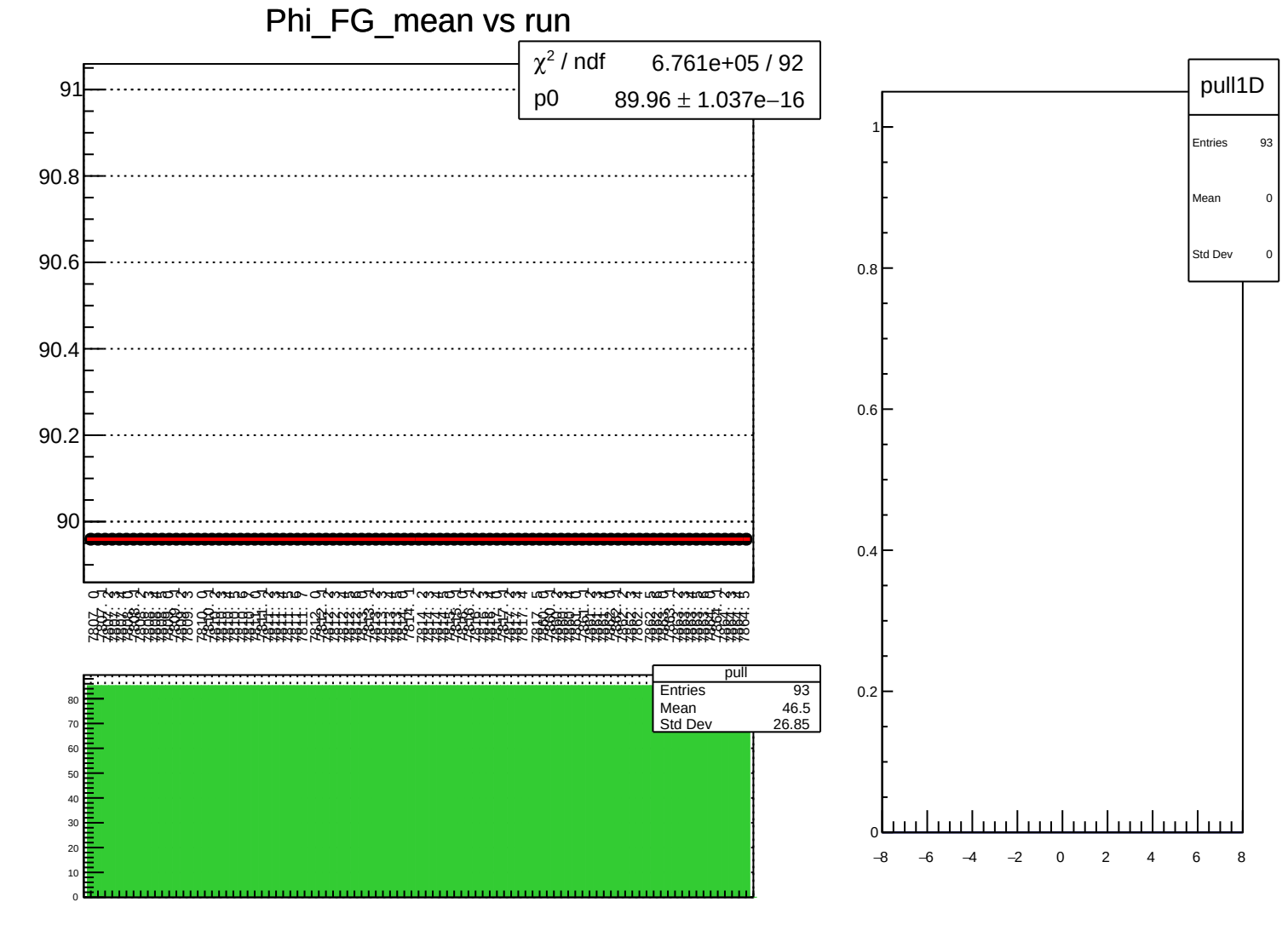

VWienAngle_mean vs run
χ² / ndf 6.761e+05 / 92
p0 88 ± 1.037e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 93
Mean 46.5
Std Dev 26.85
0
−10
−20
−30
−40
−50
−60
−70
−80
pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

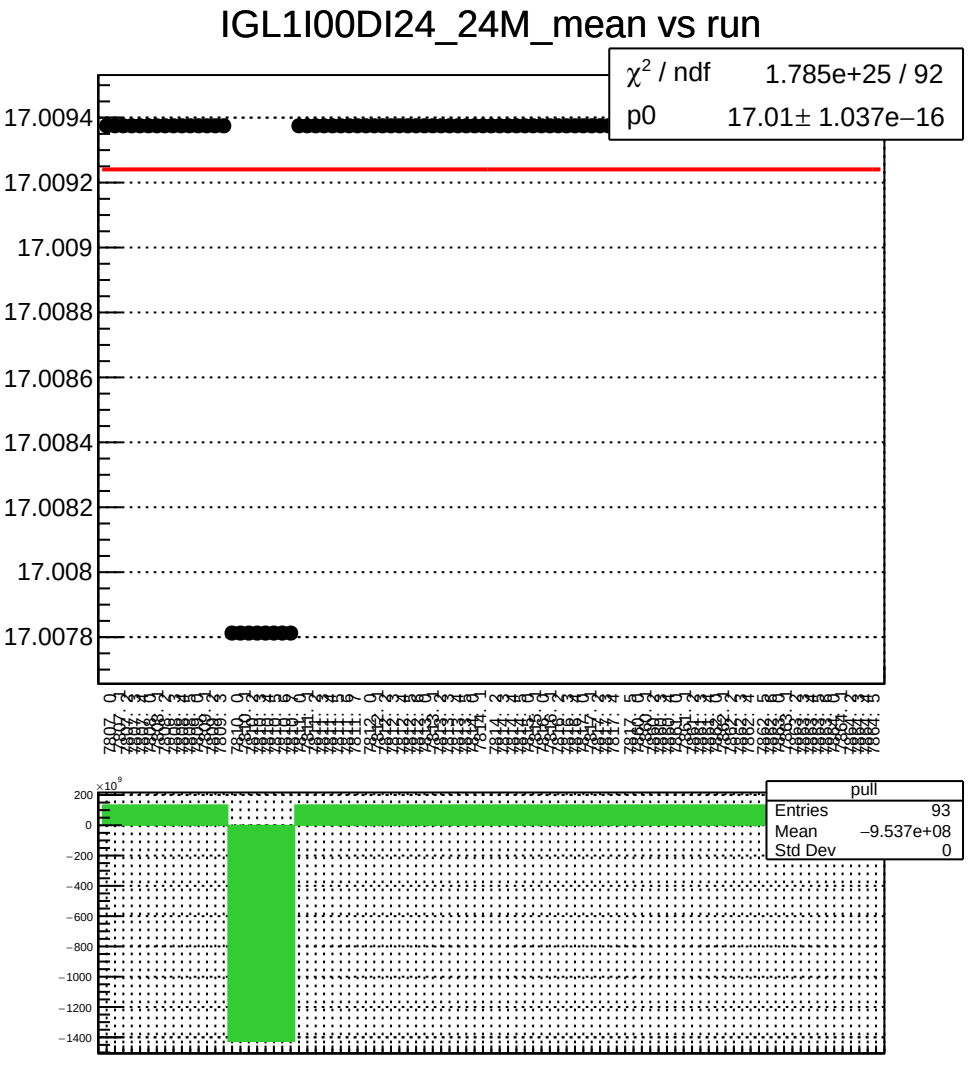

HWienAngle_mean vs run
χ² / ndf 3.005e+05 / 92
p0 −29.64 ± 1.037e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 93
Mean 46.5
Std Dev 26.85
0
−10
−20
−30
−40
−50

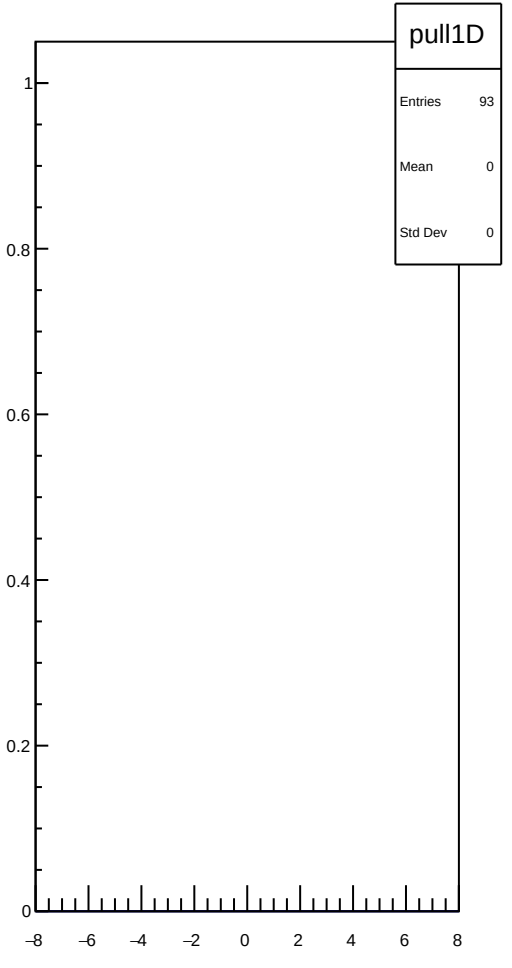

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

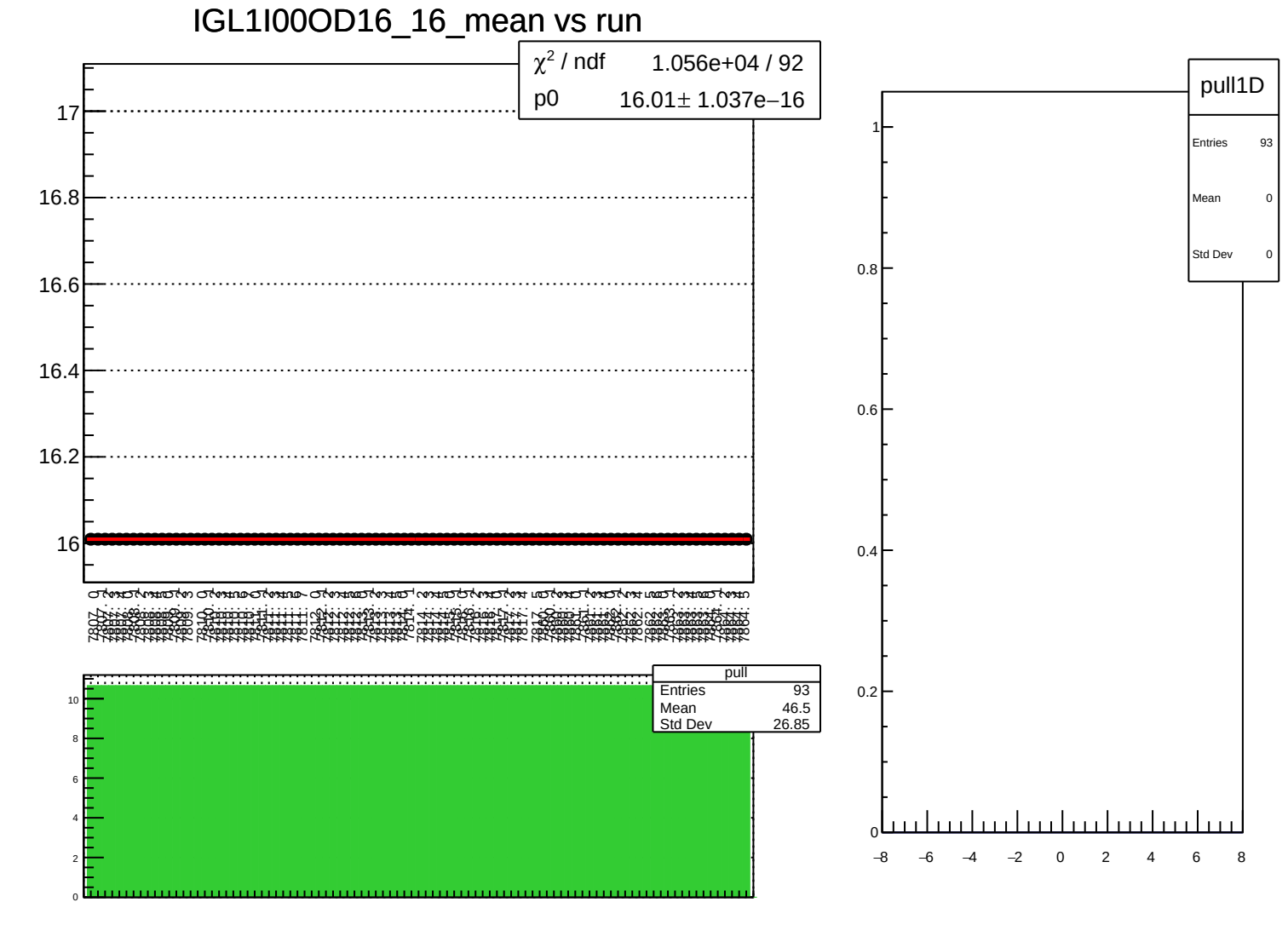

psub_pl_pos_mean vs run
χ² / ndf 1.923e+09 / 92
p0 1500 ± 1.037e−16
1501
1500.8
1500.6
1500.4
1500.2
1500
pull
Entries 93
Mean 46.5
Std Dev 26.85
4500
4000
3500
3000
2500
2000
1500
1000
500
0

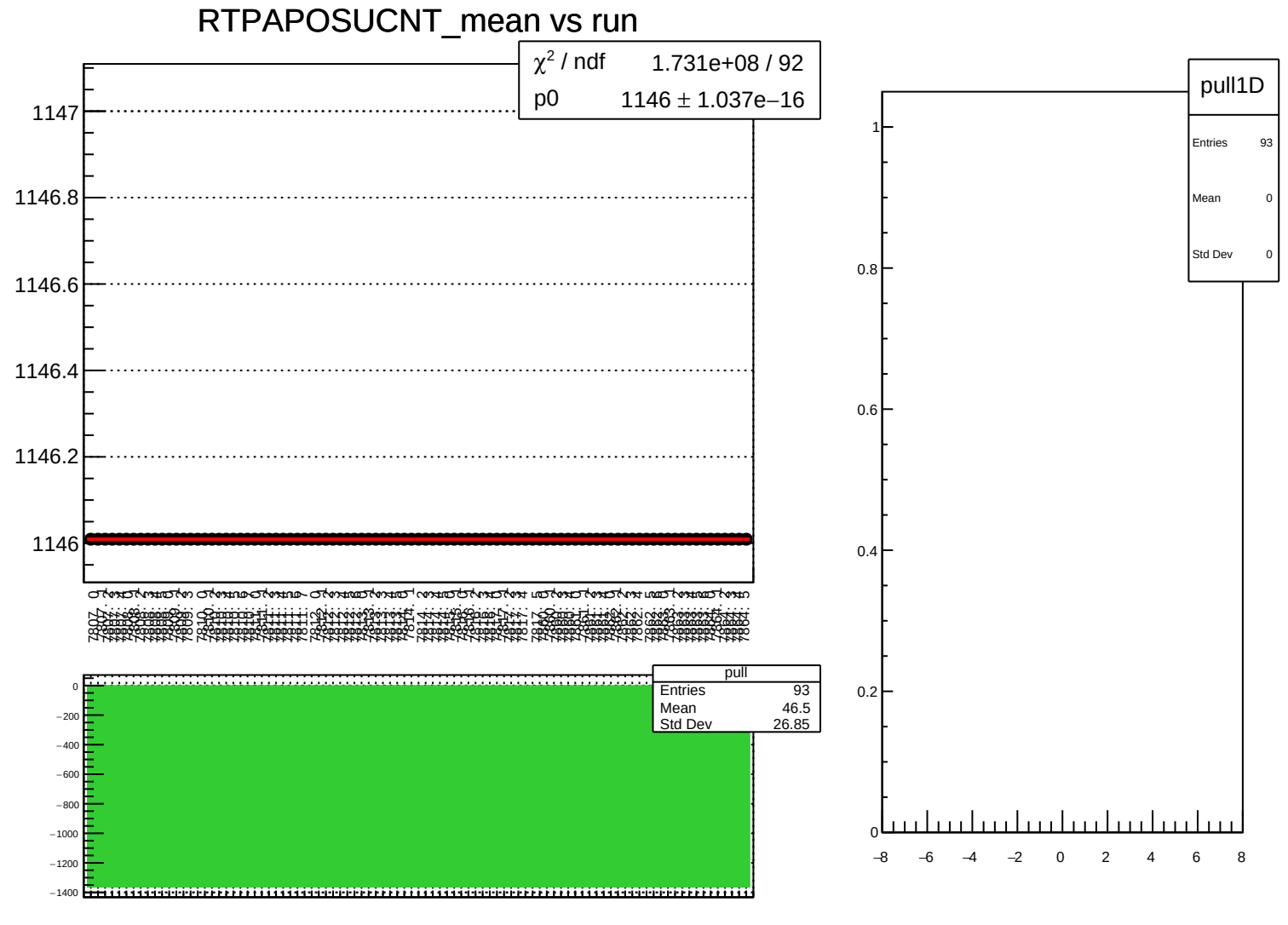

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

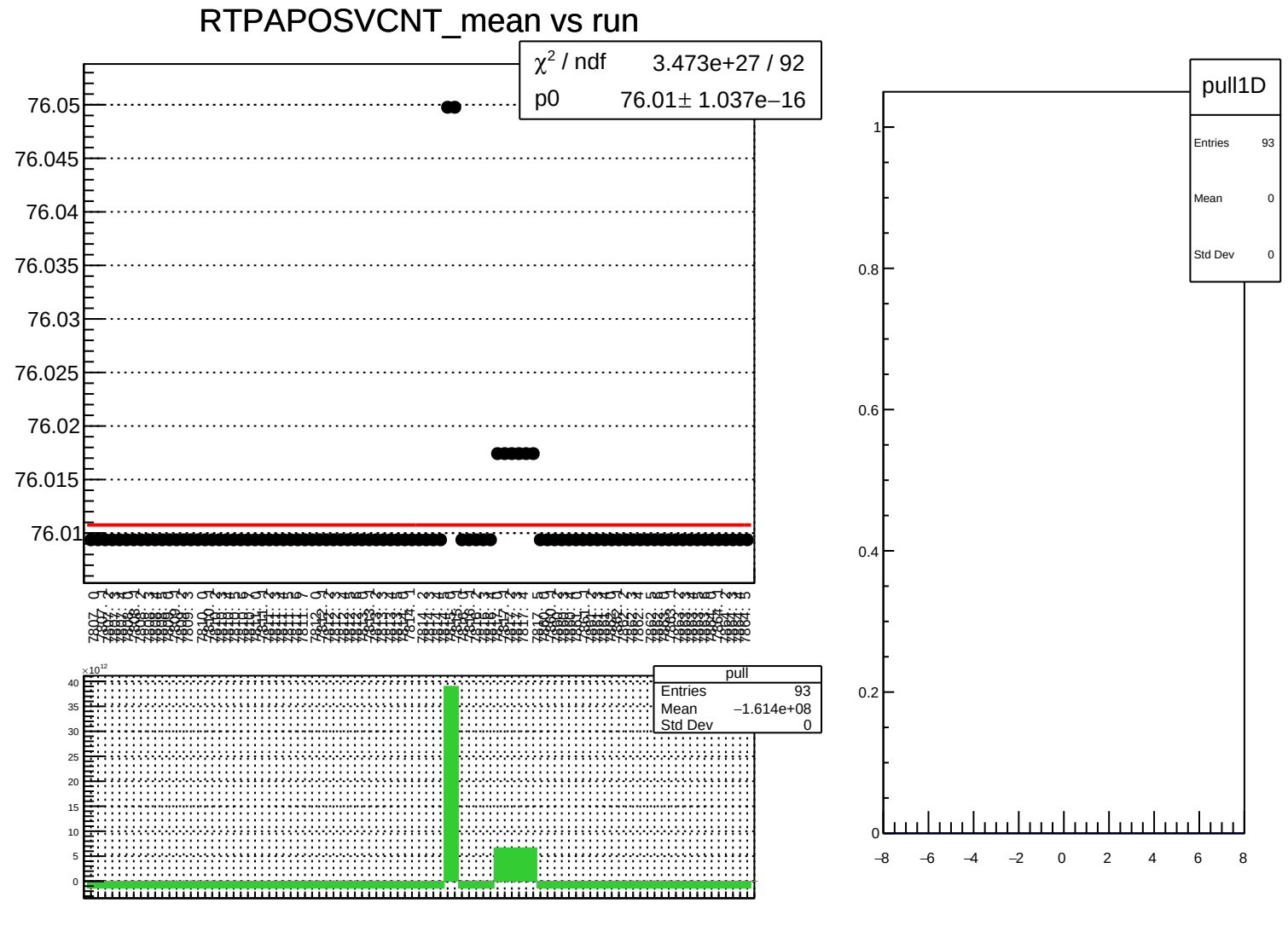

Phi_FG_mean vs run
χ² / ndf 6.761e+05 / 92
p0 89.96 ± 1.037e−16
91
90.8
90.6
90.4
90.2
90
pull
Entries 93
Mean 46.5
Std Dev 26.85
80
70
60
50
40
30
20
10
0
pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

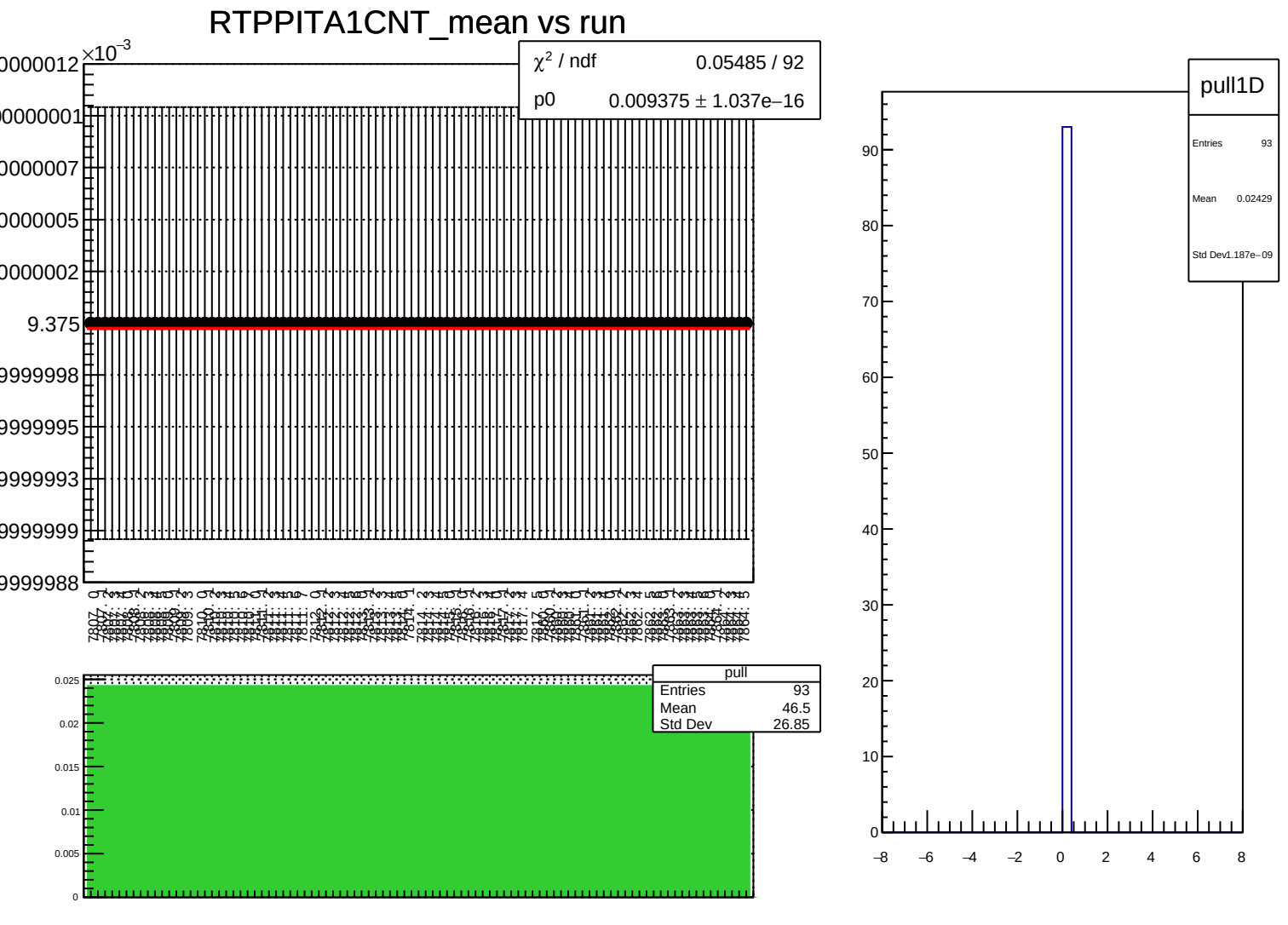

IGL1I00DI24_24M_mean vs run
χ² / ndf 1.785e+25 / 92
p0 17.01± 1.037e−16
17.0094
17.0092
17.009
17.0088
17.0086
17.0084
17.0082
17.008
17.0078
pull
Entries 93
Mean −9.537e+08
Std Dev 0
×10⁹
200
0
−200
−400
−600
−800
−1000
−1200
−1400

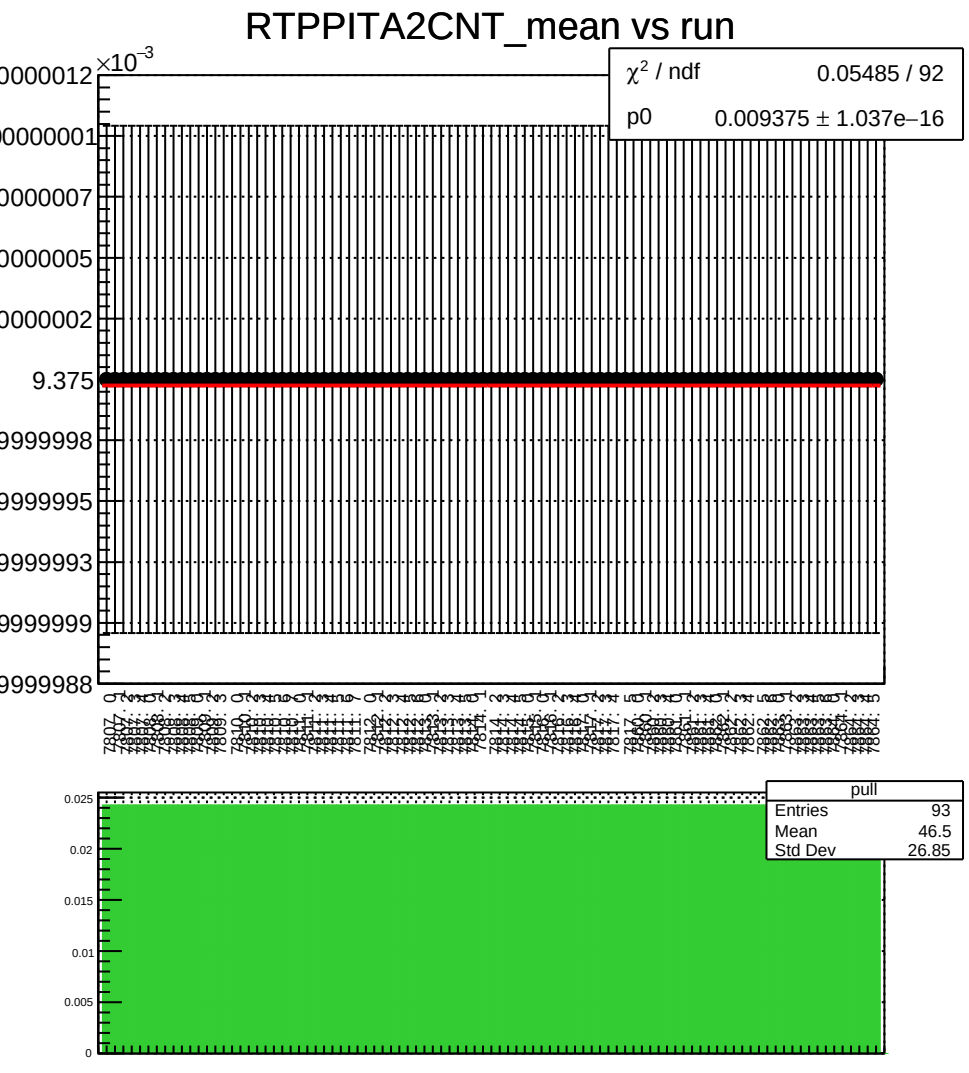

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

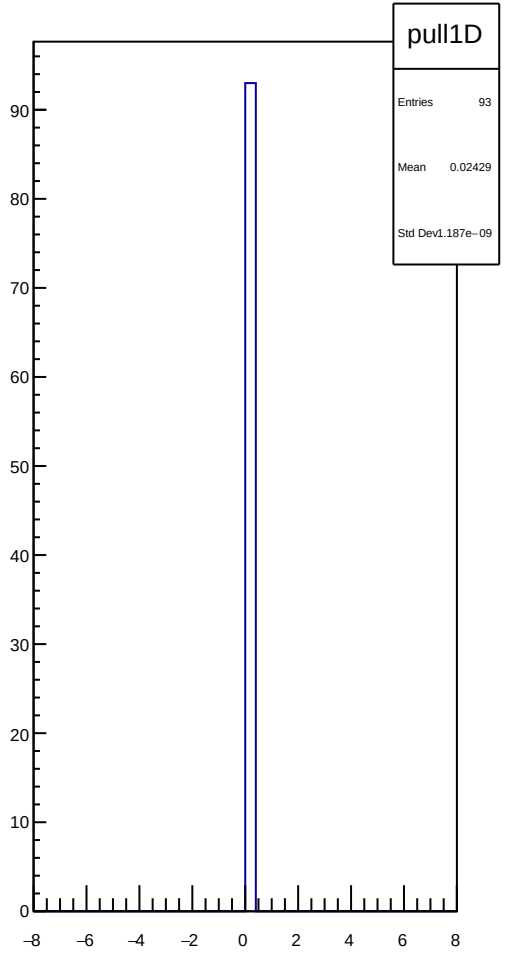

IGL1I00OD16_16_mean vs run
χ² / ndf 1.056e+04 / 92
p0 16.01± 1.037e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 93
Mean 46.5
Std Dev 26.85
10
8
6
4
2
0
pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPAPOSUCNT_mean vs run
χ² / ndf 1.731e+08 / 92
p0 1146 ± 1.037e−16
1147
1146.8
1146.6
1146.4
1146.2
1146
pull
Entries 93
Mean 46.5
Std Dev 26.85
0
−200
−400
−600
−800
−1000
−1200
−1400
pull1D
Entries 93
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 3.473e+27 / 92
p0 76.01± 1.037e−16
76.05
76.045
76.04
76.035
76.03
76.025
76.02
76.015
76.01
pull
Entries 93
Mean −1.614e+08
Std Dev 0
pull1D
Entries 93
Mean 0
Std Dev 0


RTPPITA1CNT_mean vs run
χ² / ndf 0.05485 / 92
p0 0.009375 ± 1.037e−16
×10⁻³
pull
Entries 93
Mean 46.5
Std Dev 26.85
pull1D
Entries 93
Mean 0.02429
Std Dev1.187e−09


RTPPITA2CNT_mean vs run
×10⁻³
χ² / ndf 0.05485 / 92
p0 0.009375 ± 1.037e−16
pull
Entries 93
Mean 46.5
Std Dev 26.85


pull1D
Entries 93
Mean 0.02429
Std Dev1.187e−09