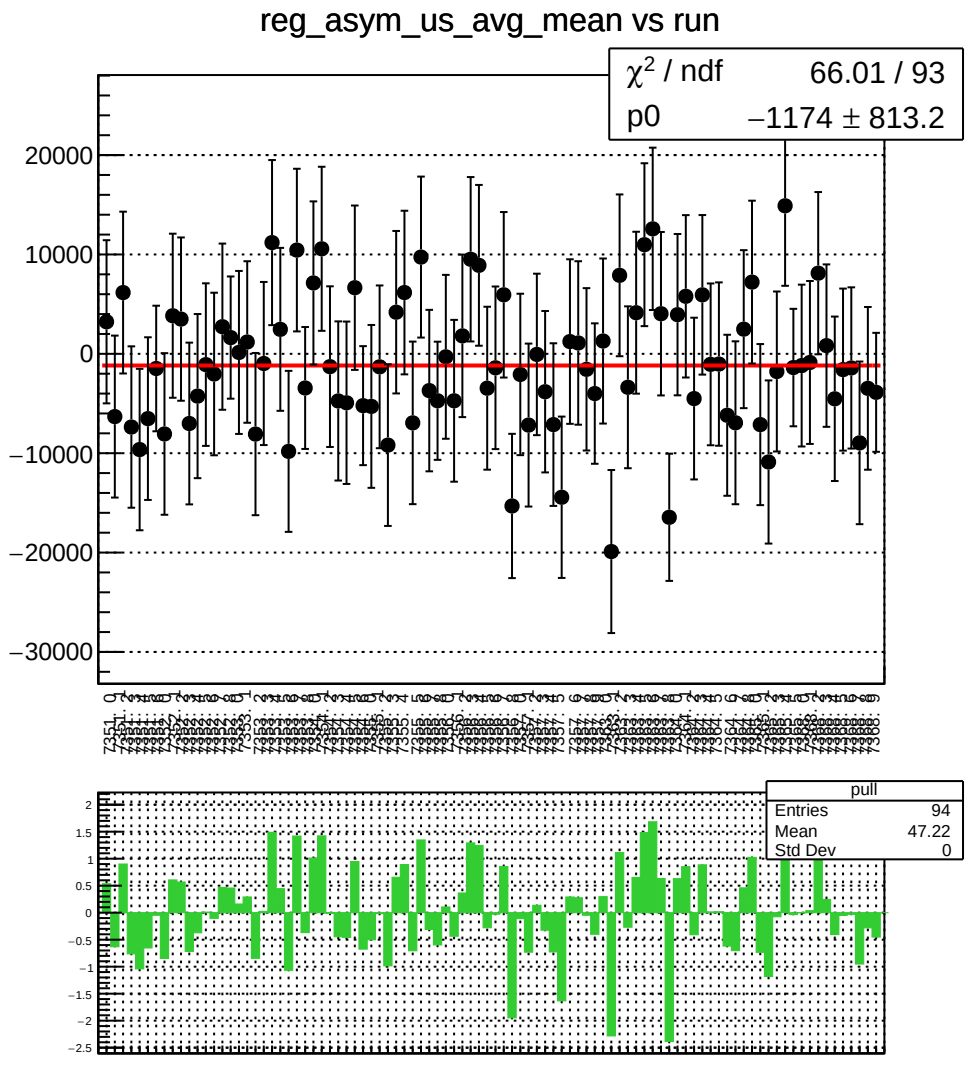
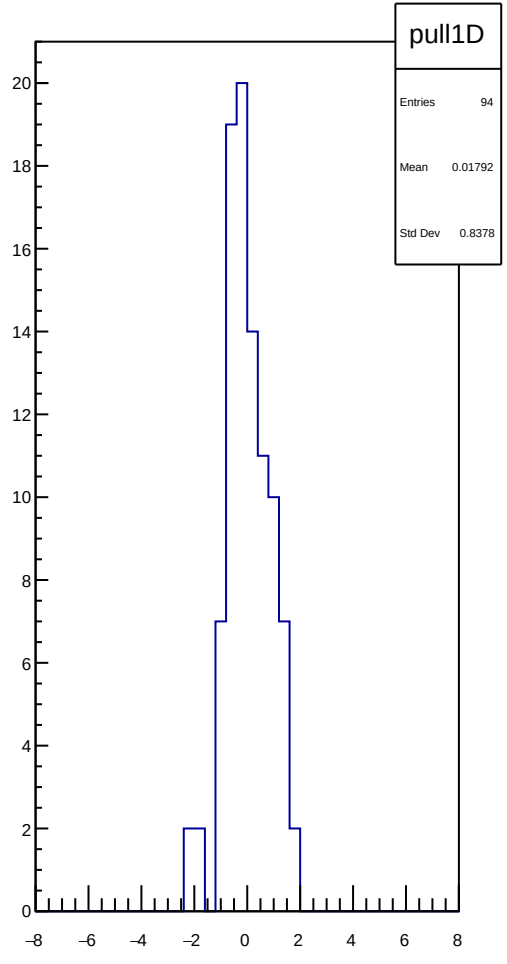
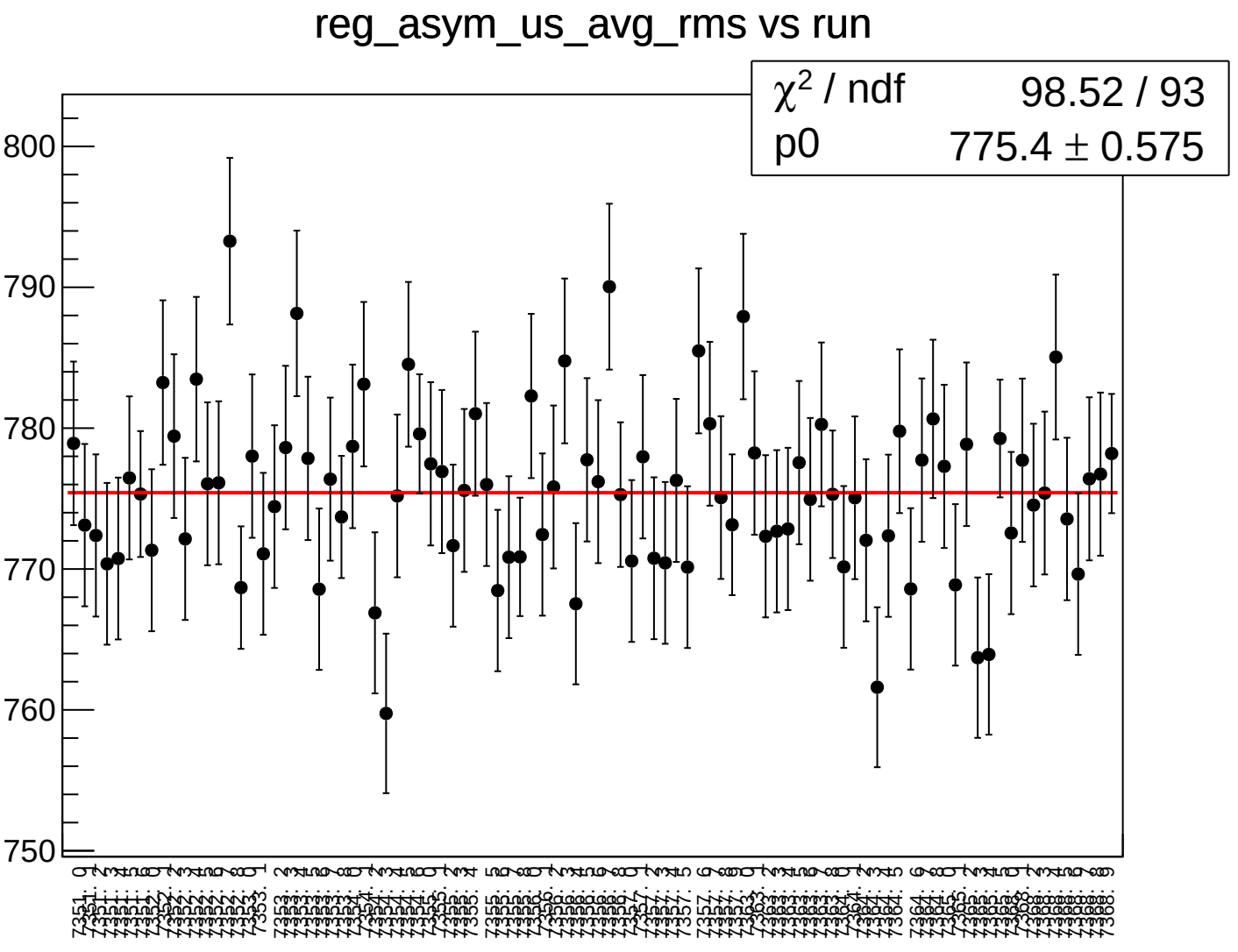
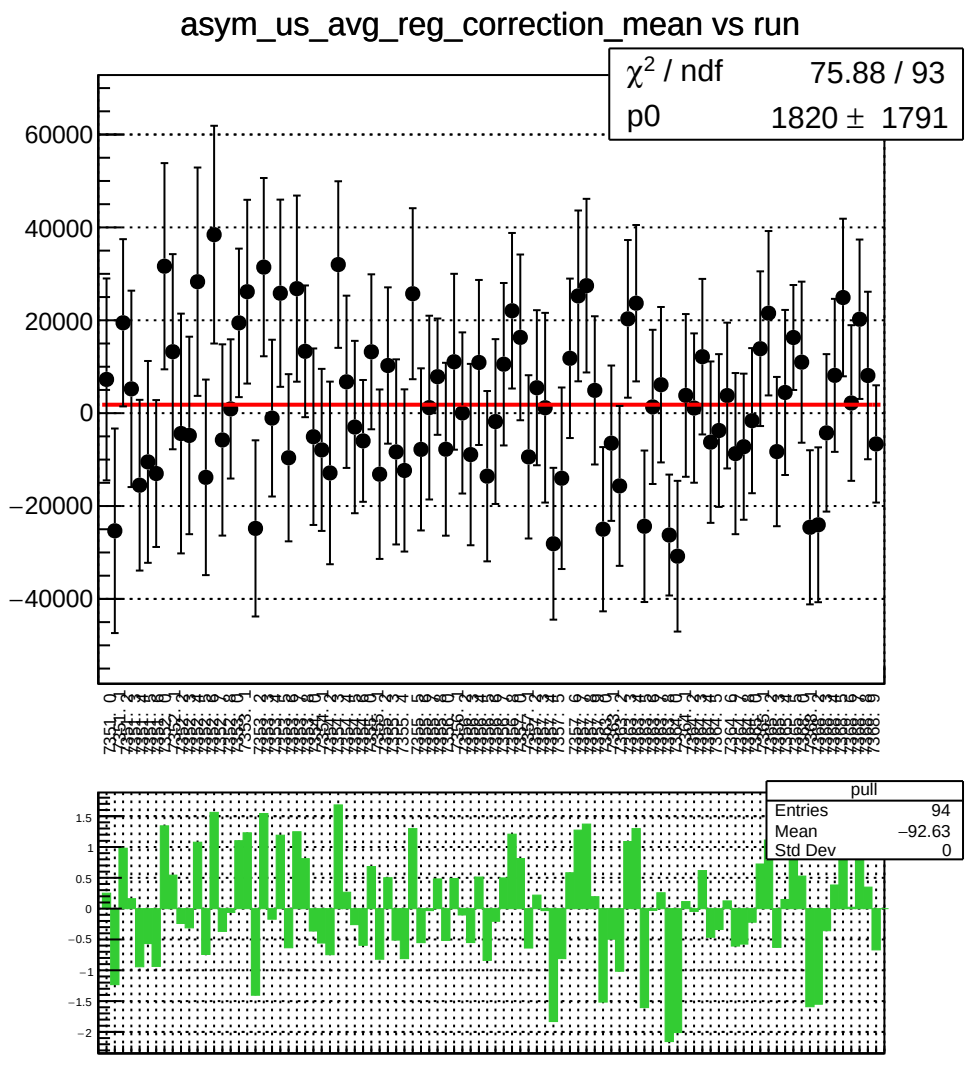
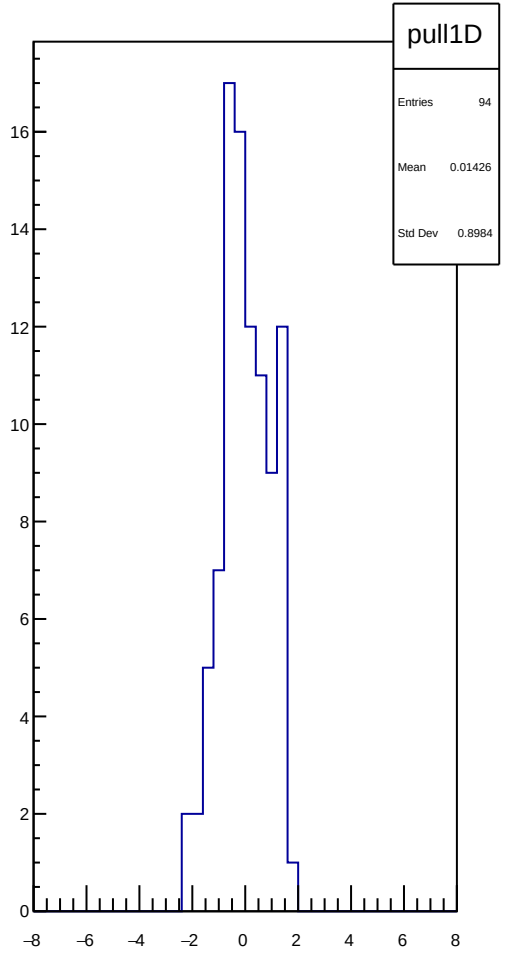
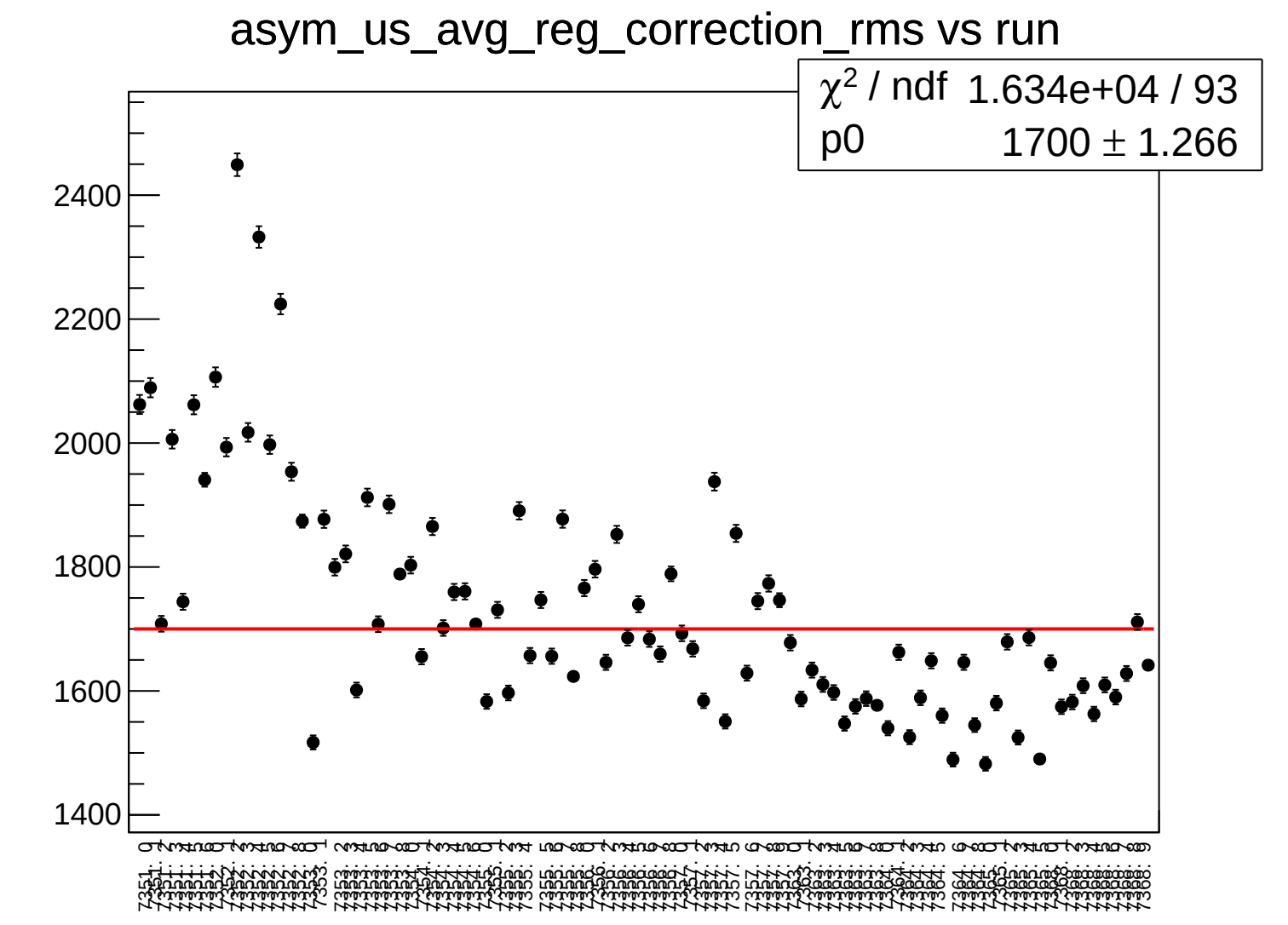

reg_asym_us_avg_mean vs run
χ² / ndf 66.01 / 93
p0 −1174 ± 813.2
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean 47.22
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

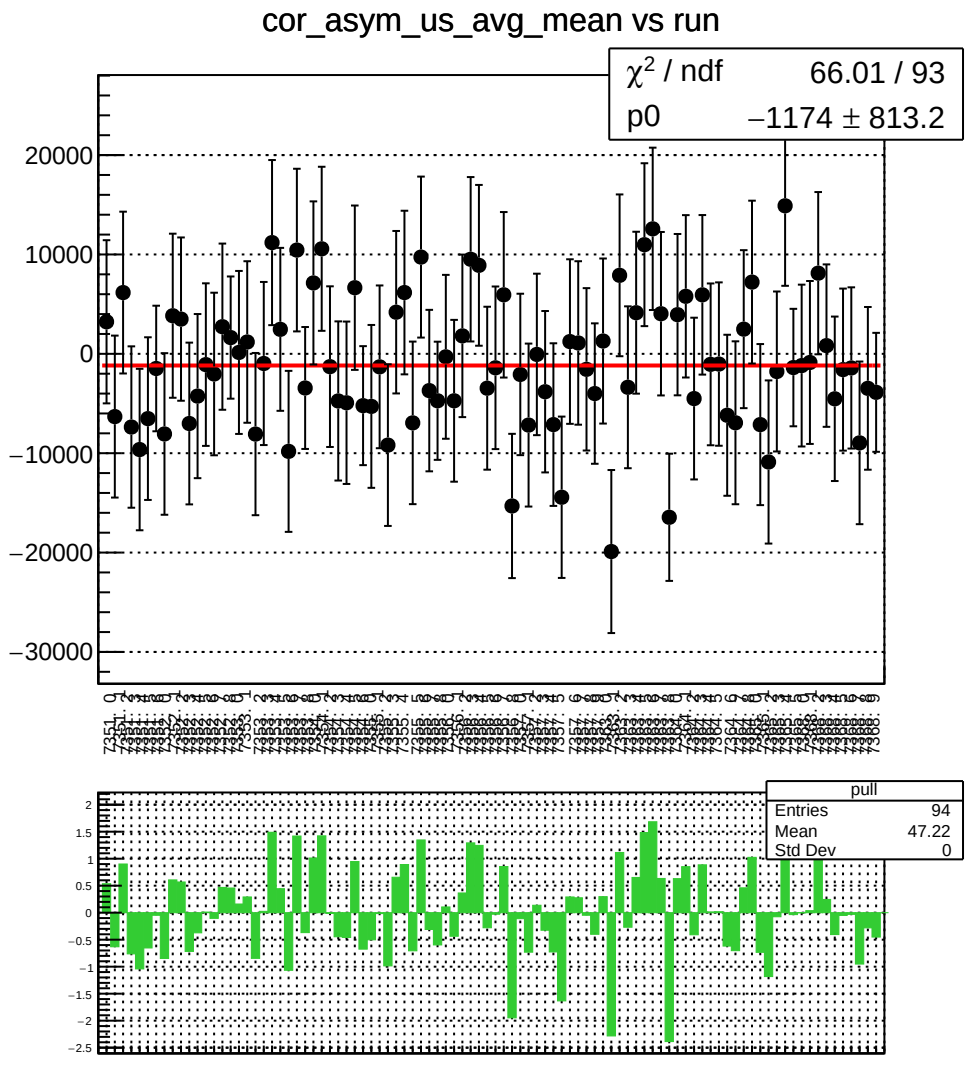

pull1D
Entries 94
Mean 0.01792
Std Dev 0.8378
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

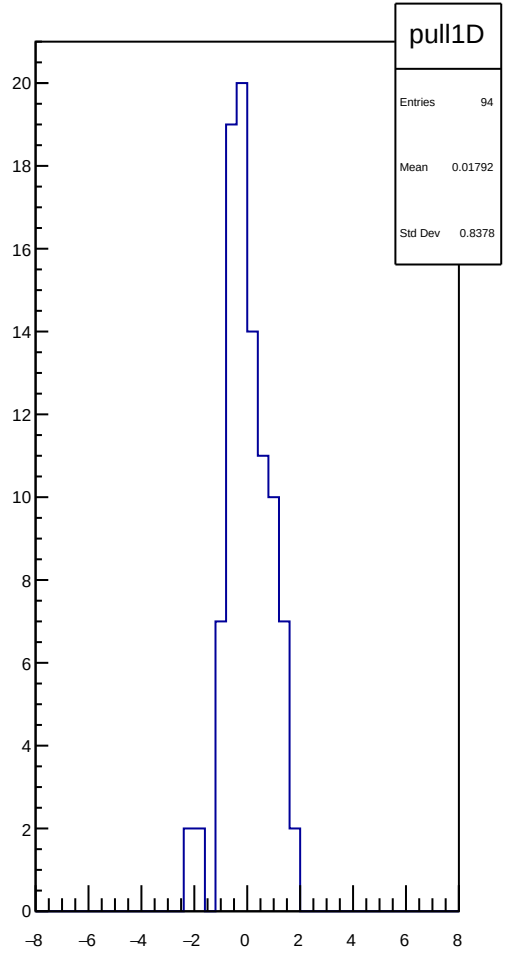

reg_asym_us_avg_rms vs run
χ^2 / ndf 98.52 / 93
p0 775.4 ± 0.575
800
790
780
770
760
750

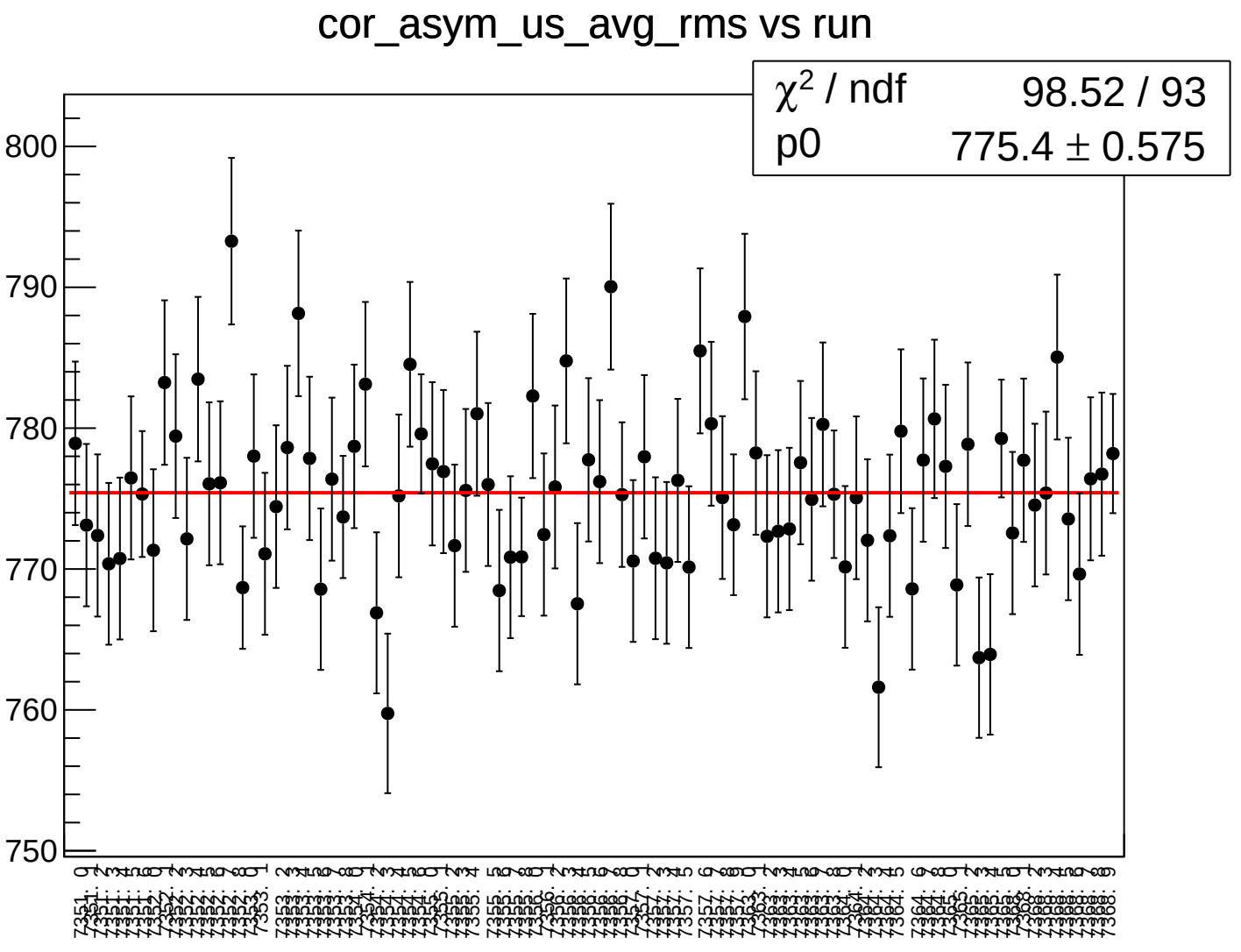

asym_us_avg_reg_correction_mean vs run
χ² / ndf 75.88 / 93
p0 1820 ± 1791
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −92.63
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

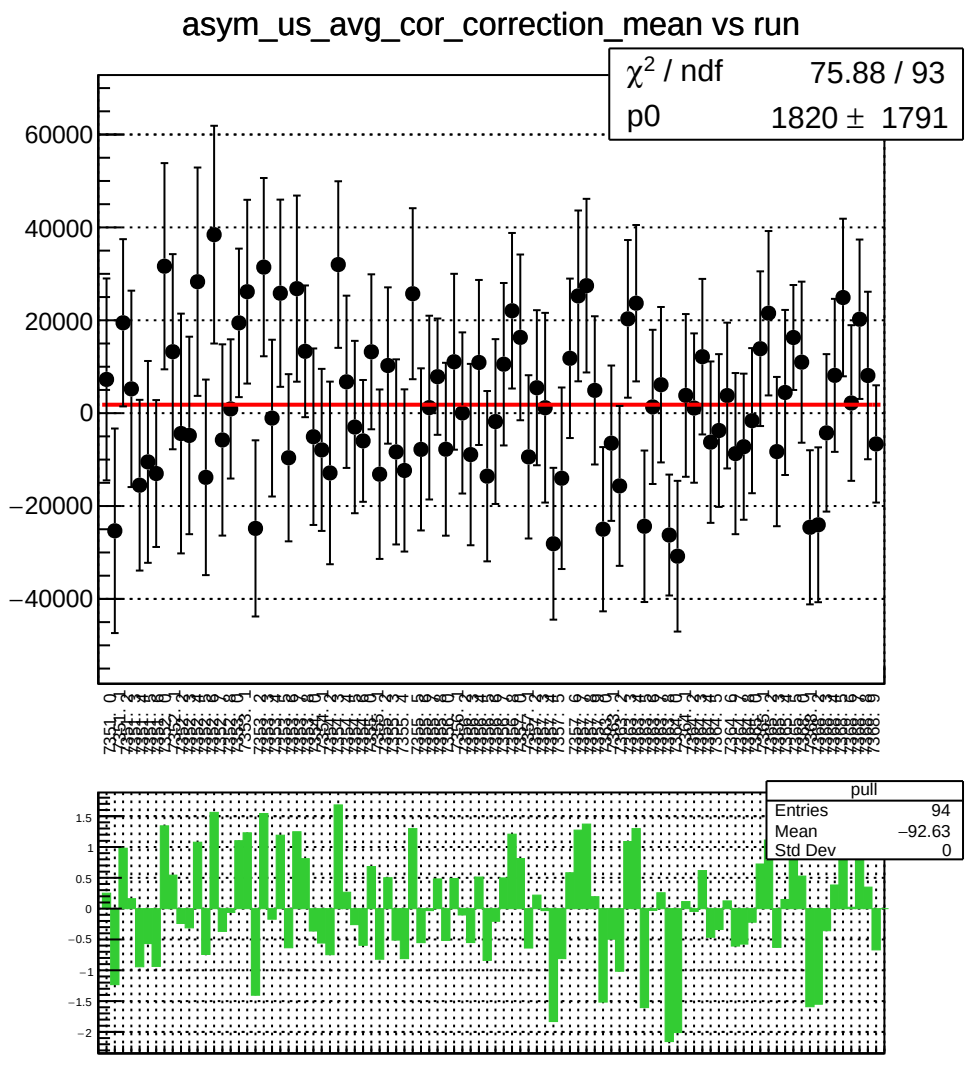

pull1D
Entries 94
Mean 0.01426
Std Dev 0.8984
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

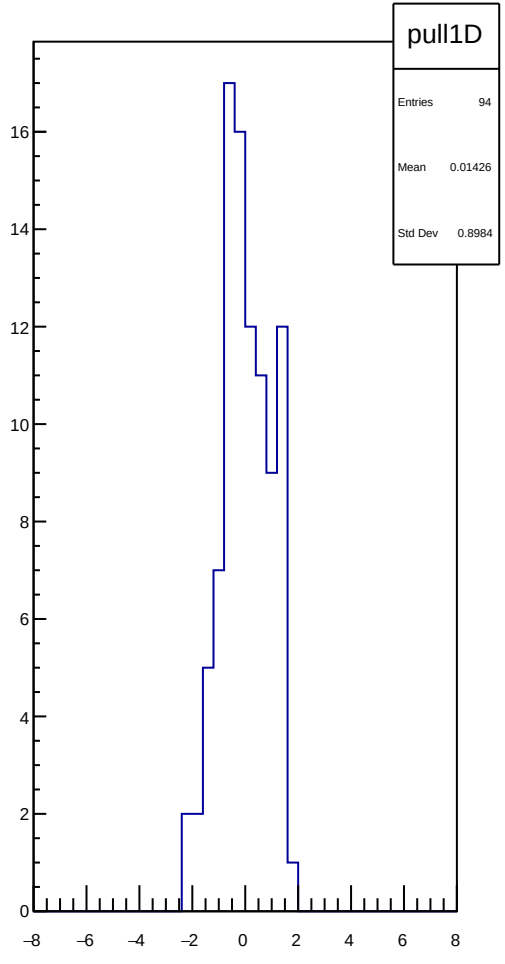

asym_us_avg_reg_correction_rms vs run
χ² / ndf 1.634e+04 / 93
p0 1700 ± 1.266
2400
2200
2000
1800
1600
1400

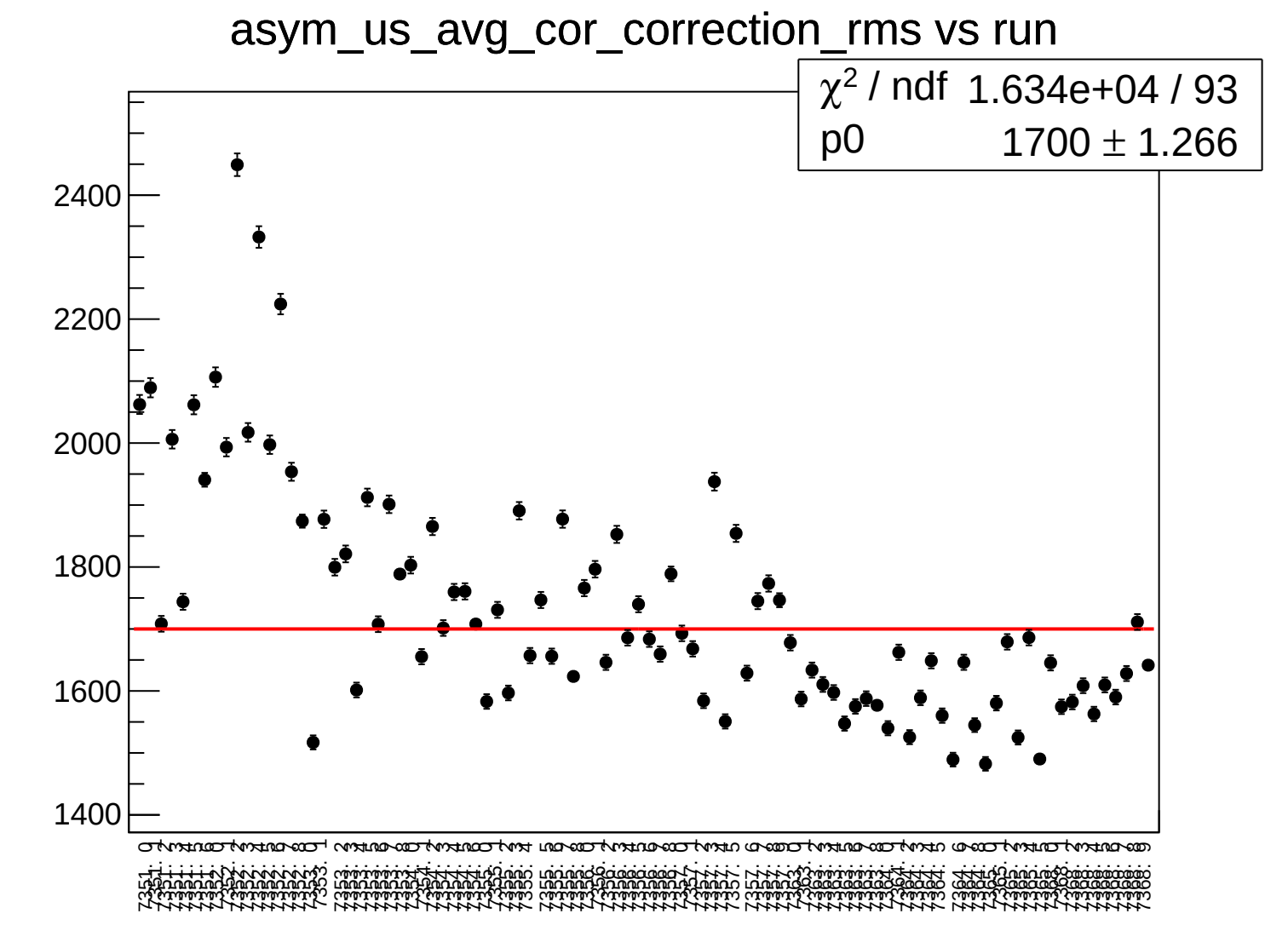

cor_asym_us_avg_mean vs run
χ² / ndf 66.01 / 93
p0 −1174 ± 813.2
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean 47.22
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

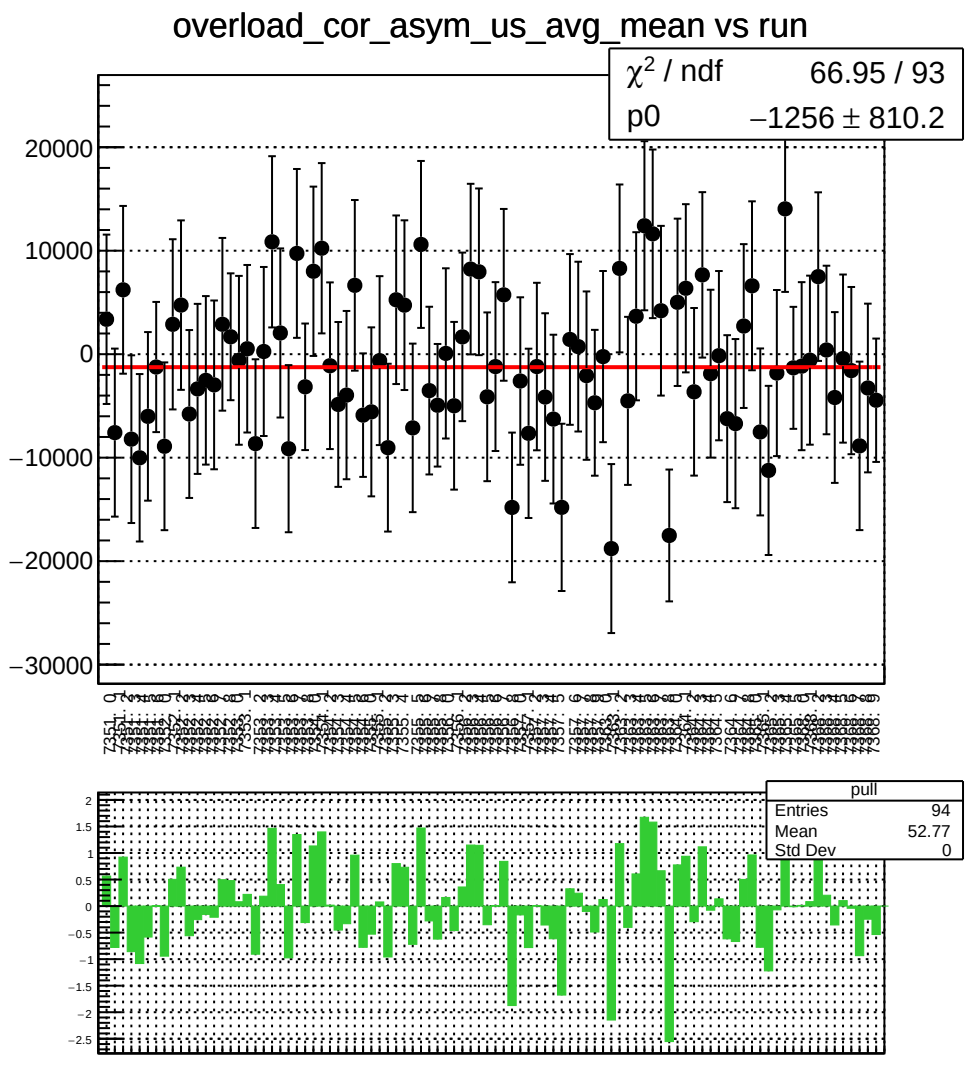

pull1D
Entries 94
Mean 0.01792
Std Dev 0.8378
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

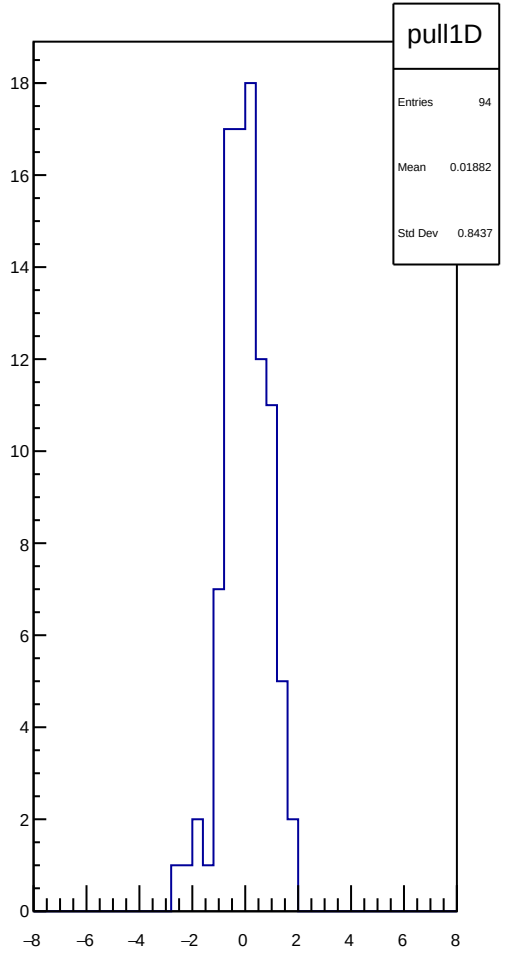

cor_asym_us_avg_rms vs run
χ^2 / ndf 98.52 / 93
p0 775.4 ± 0.575
800
790
780
770
760
750

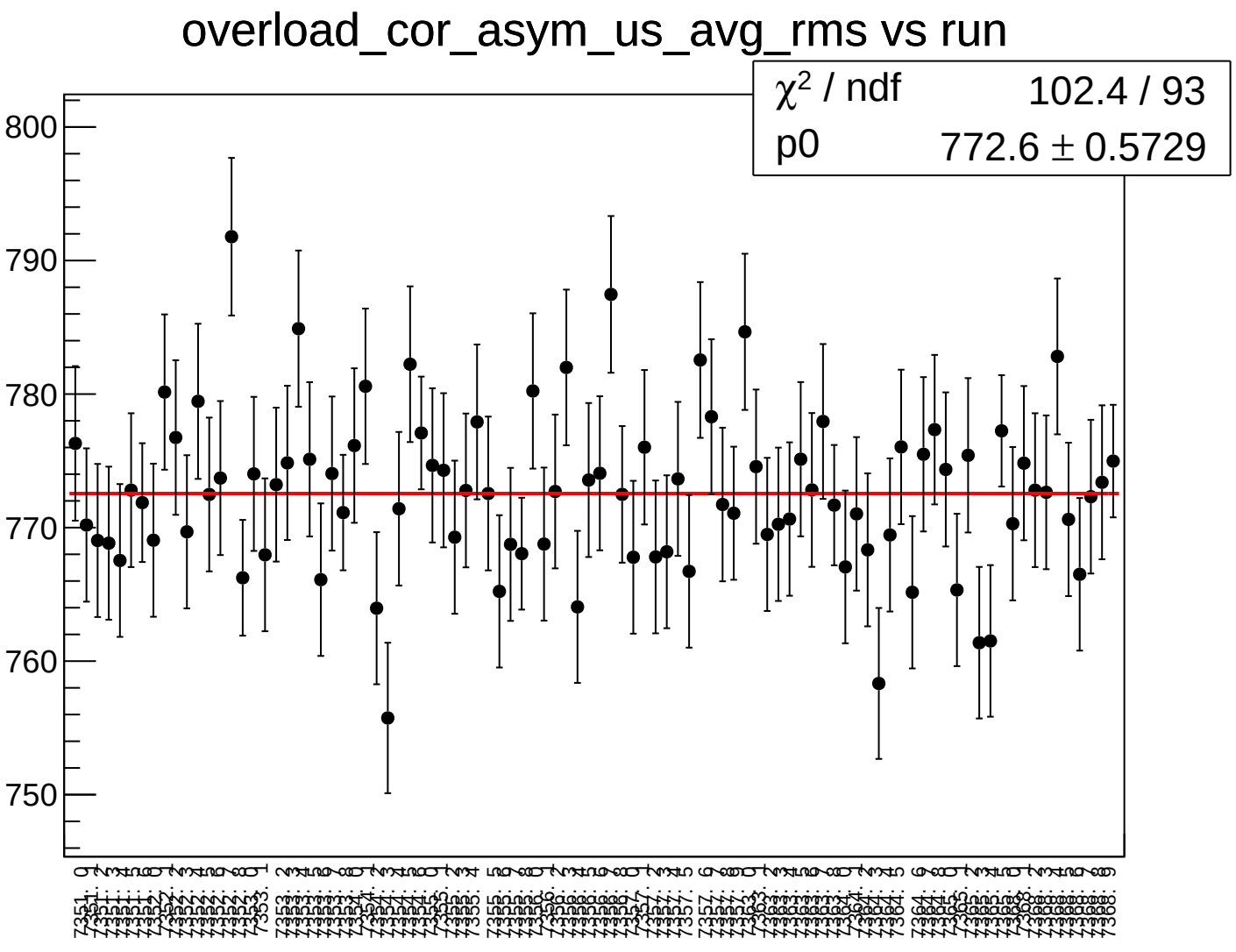

asym_us_avg_cor_correction_mean vs run
χ² / ndf 75.88 / 93
p0 1820 ± 1791
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −92.63
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

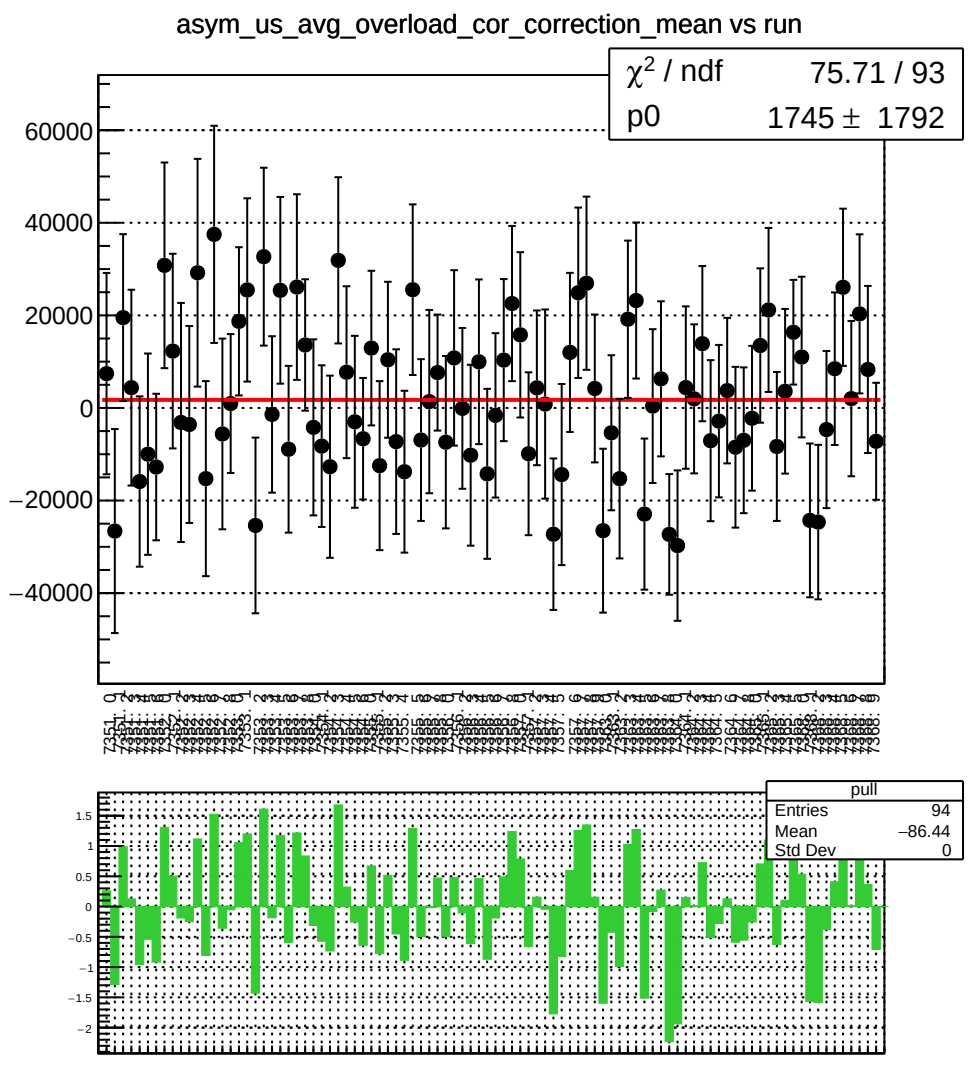

pull1D
Entries 94
Mean 0.01426
Std Dev 0.8984
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

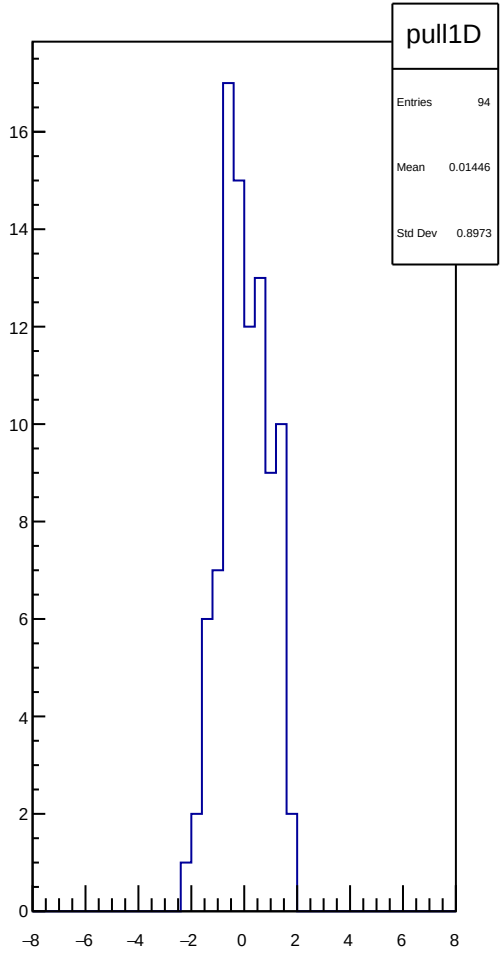

asym_us_avg_cor_correction_rms vs run
χ² / ndf 1.634e+04 / 93
p0 1700 ± 1.266
2400
2200
2000
1800
1600
1400

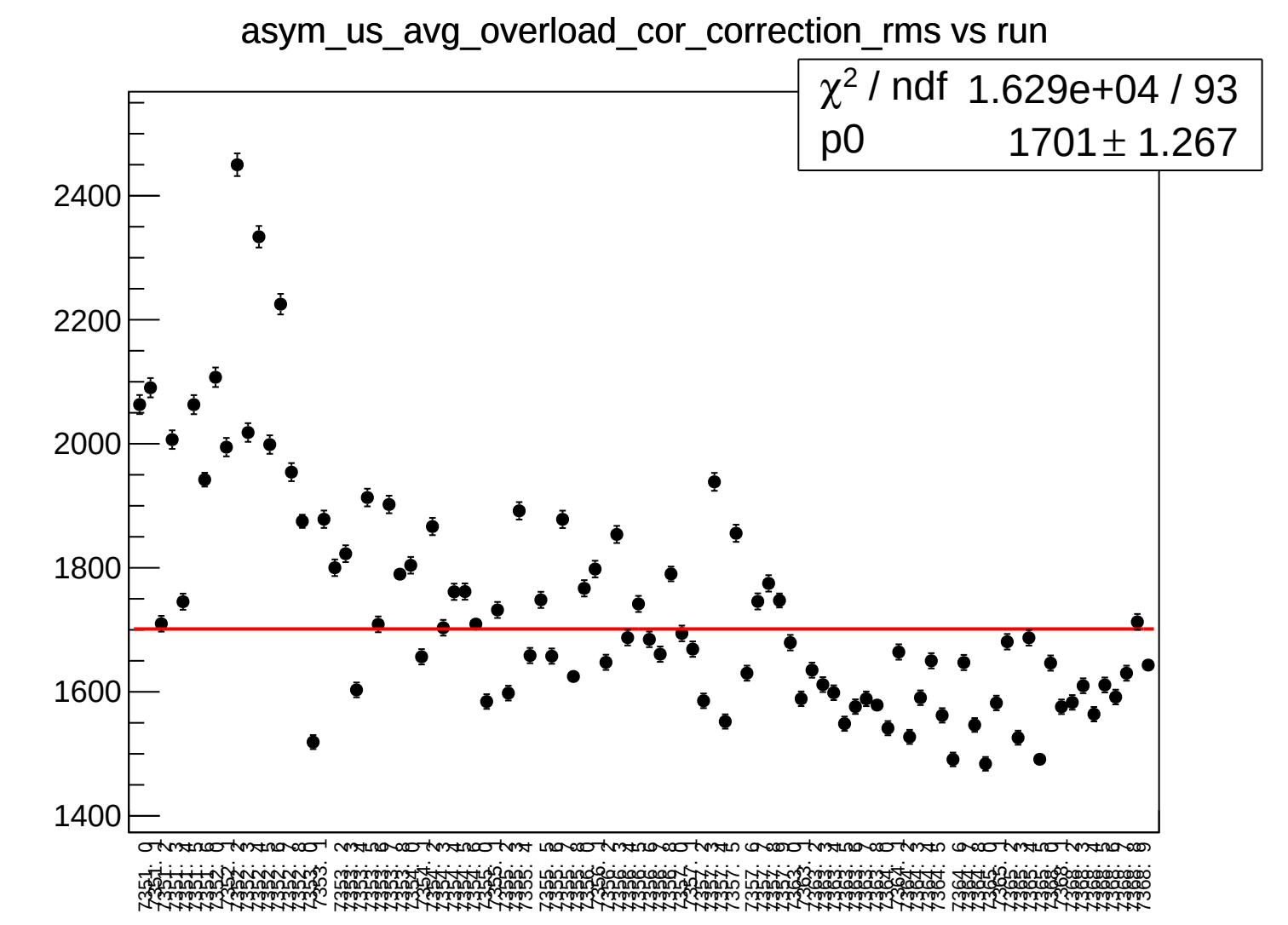

overload_cor_asym_us_avg_mean vs run
χ² / ndf 66.95 / 93
p0 −1256 ± 810.2
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean 52.77
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

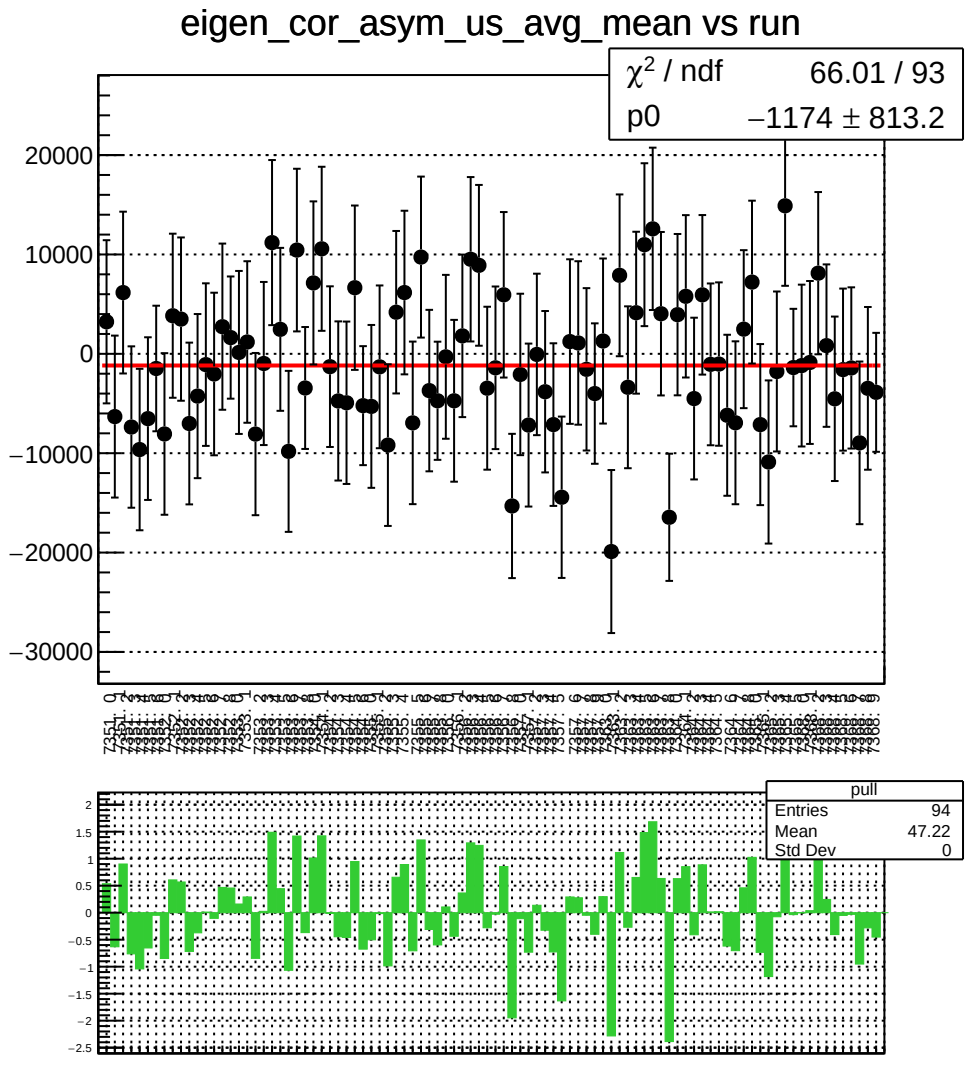

pull1D
Entries 94
Mean 0.01882
Std Dev 0.8437
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

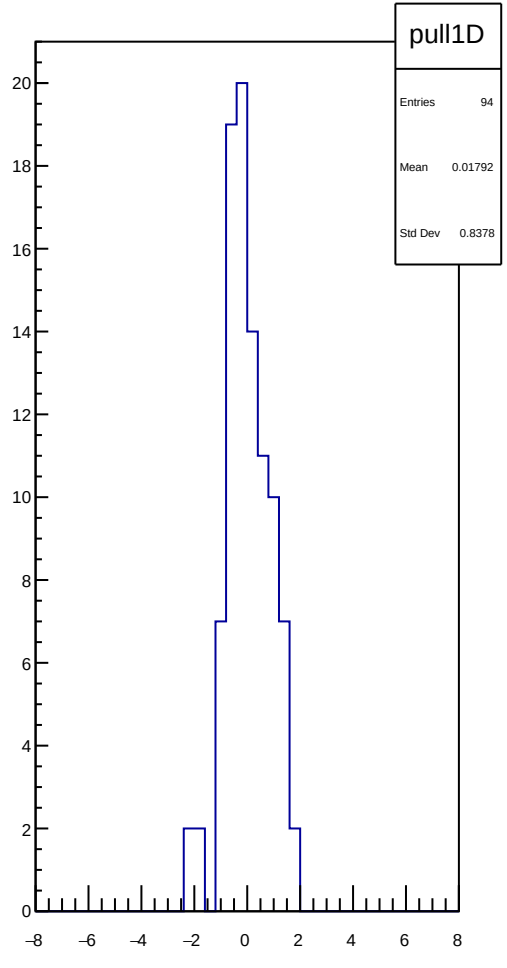

overload_cor_asym_us_avg_rms vs run
χ² / ndf 102.4 / 93
p0 772.6 ± 0.5729
800
790
780
770
760
750

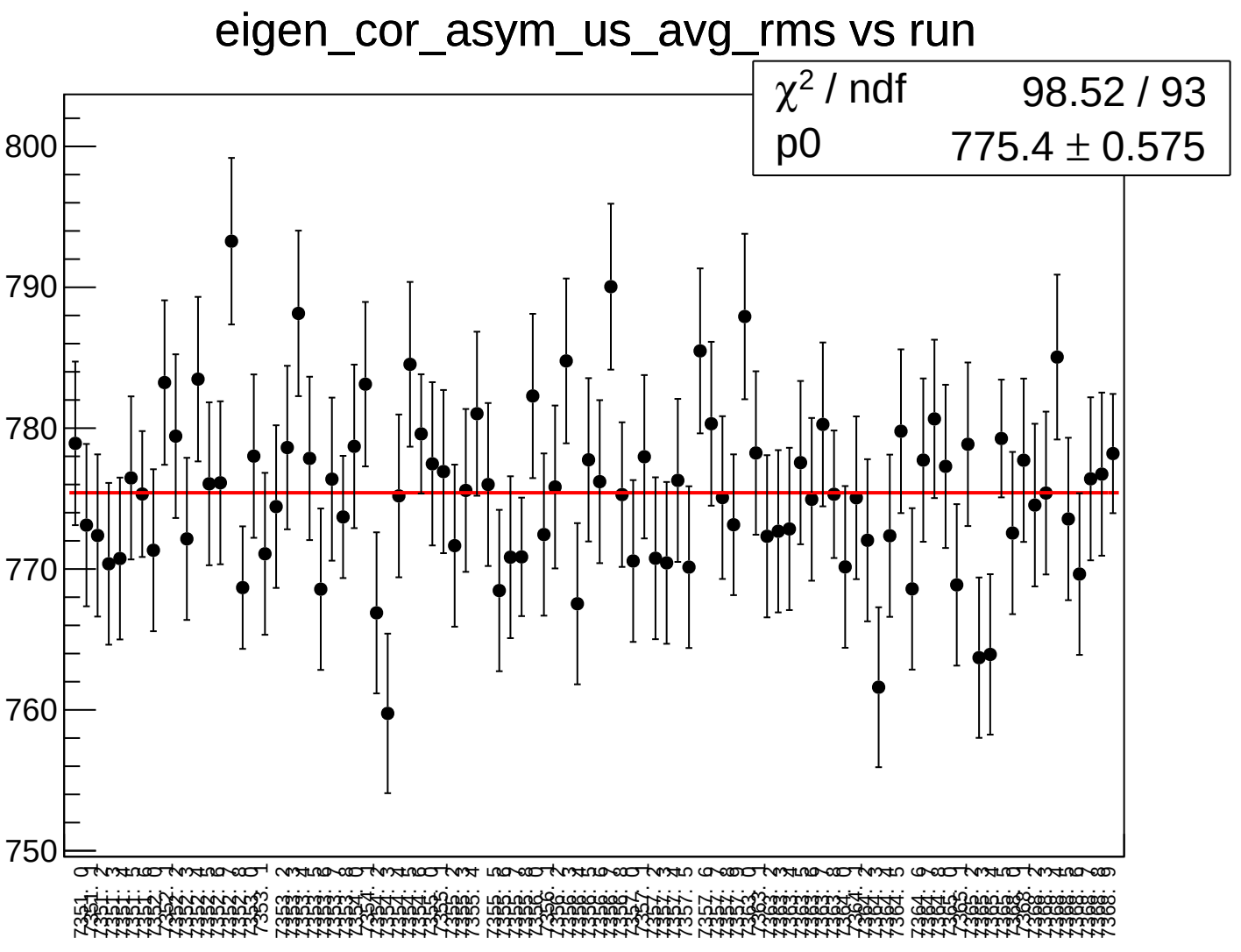

asym_us_avg_overload_cor_correction_mean vs run
χ² / ndf 75.71 / 93
p0 1745 ± 1792
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −86.44
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

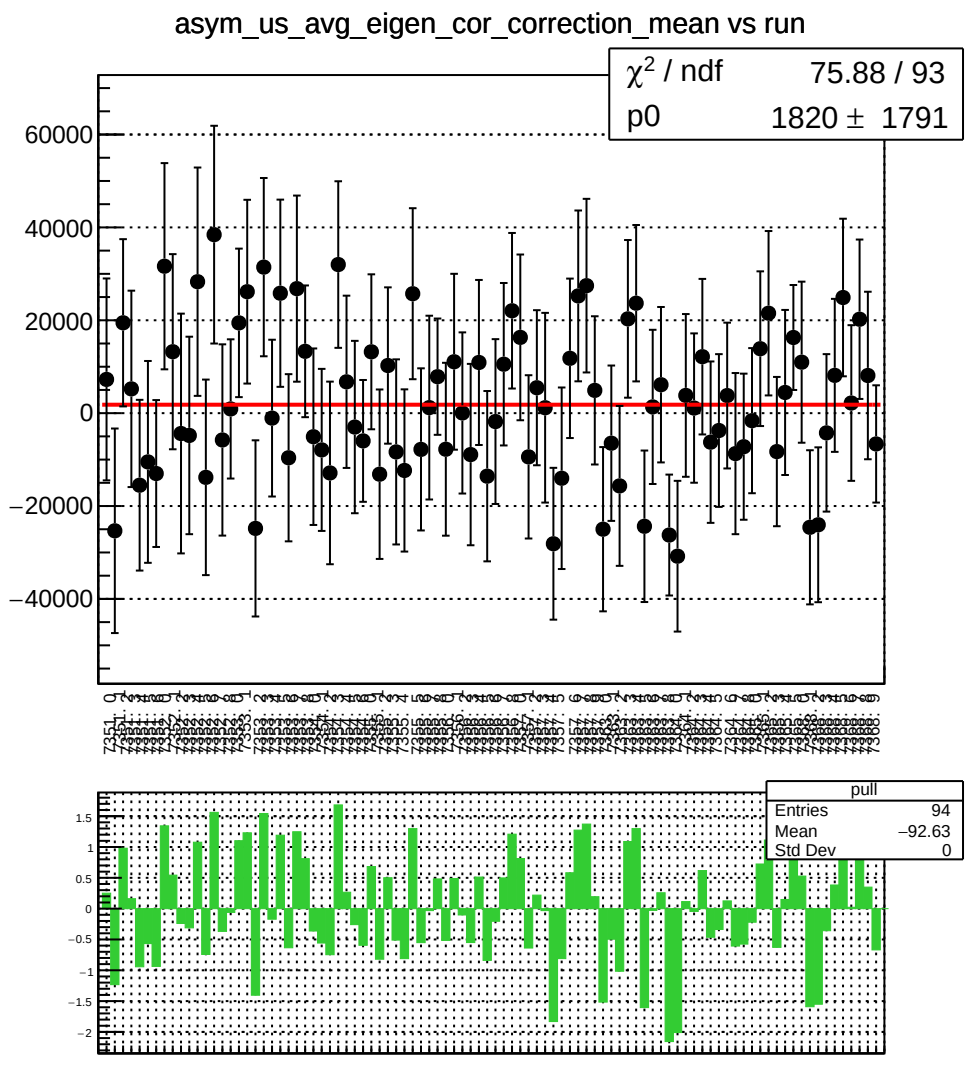

pull1D
Entries 94
Mean 0.01446
Std Dev 0.8973
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

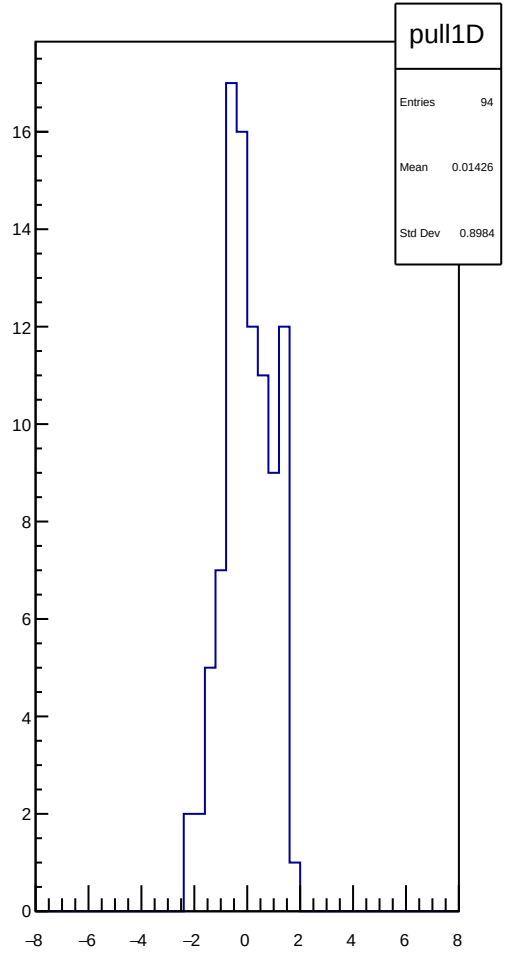

asym_us_avg_overload_cor_correction_rms vs run
χ² / ndf 1.629e+04 / 93
p0 1701 ± 1.267
2400
2200
2000
1800
1600
1400

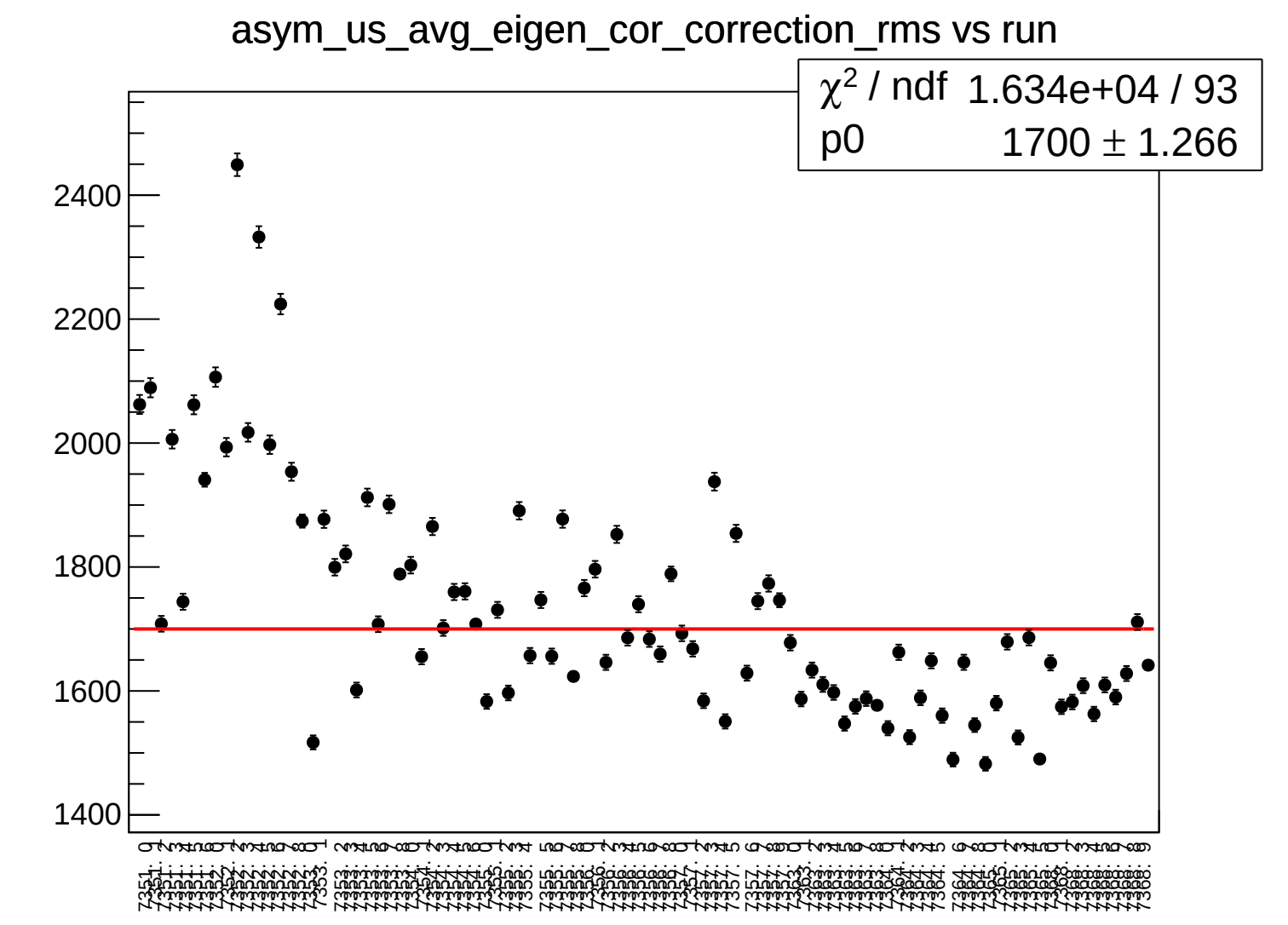

eigen_cor_asym_us_avg_mean vs run
χ² / ndf 66.01 / 93
p0 −1174 ± 813.2
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean 47.22
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

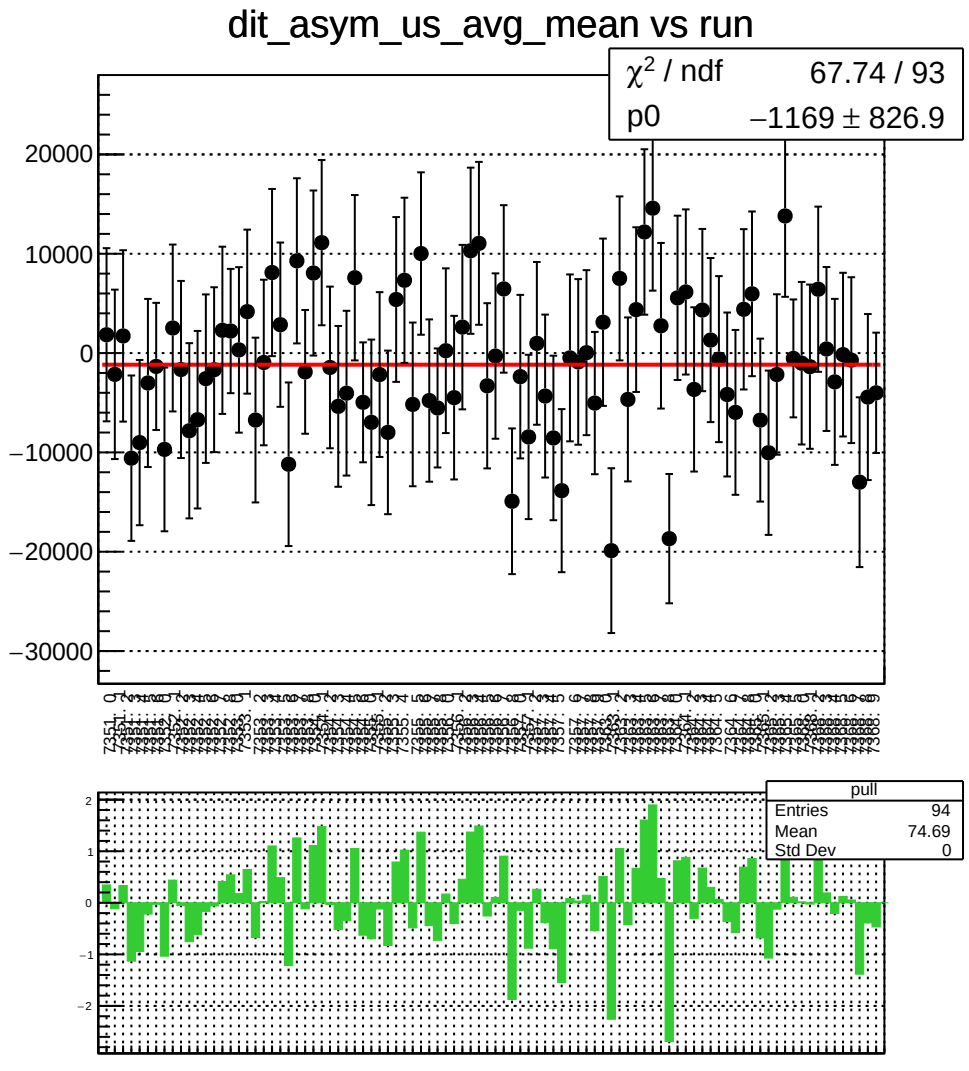

pull1D
Entries 94
Mean 0.01792
Std Dev 0.8378
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

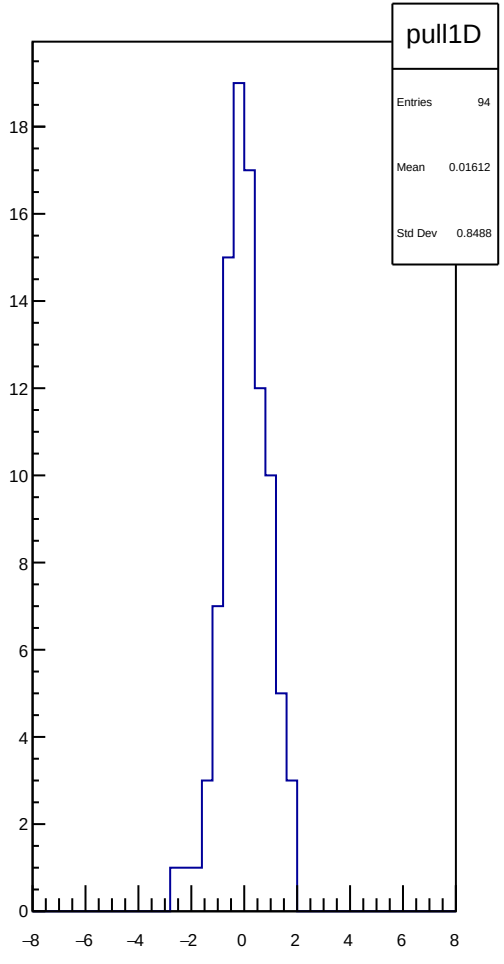

eigen_cor_asym_us_avg_rms vs run
χ^2 / ndf 98.52 / 93
p0 775.4 ± 0.575
800
790
780
770
760
750

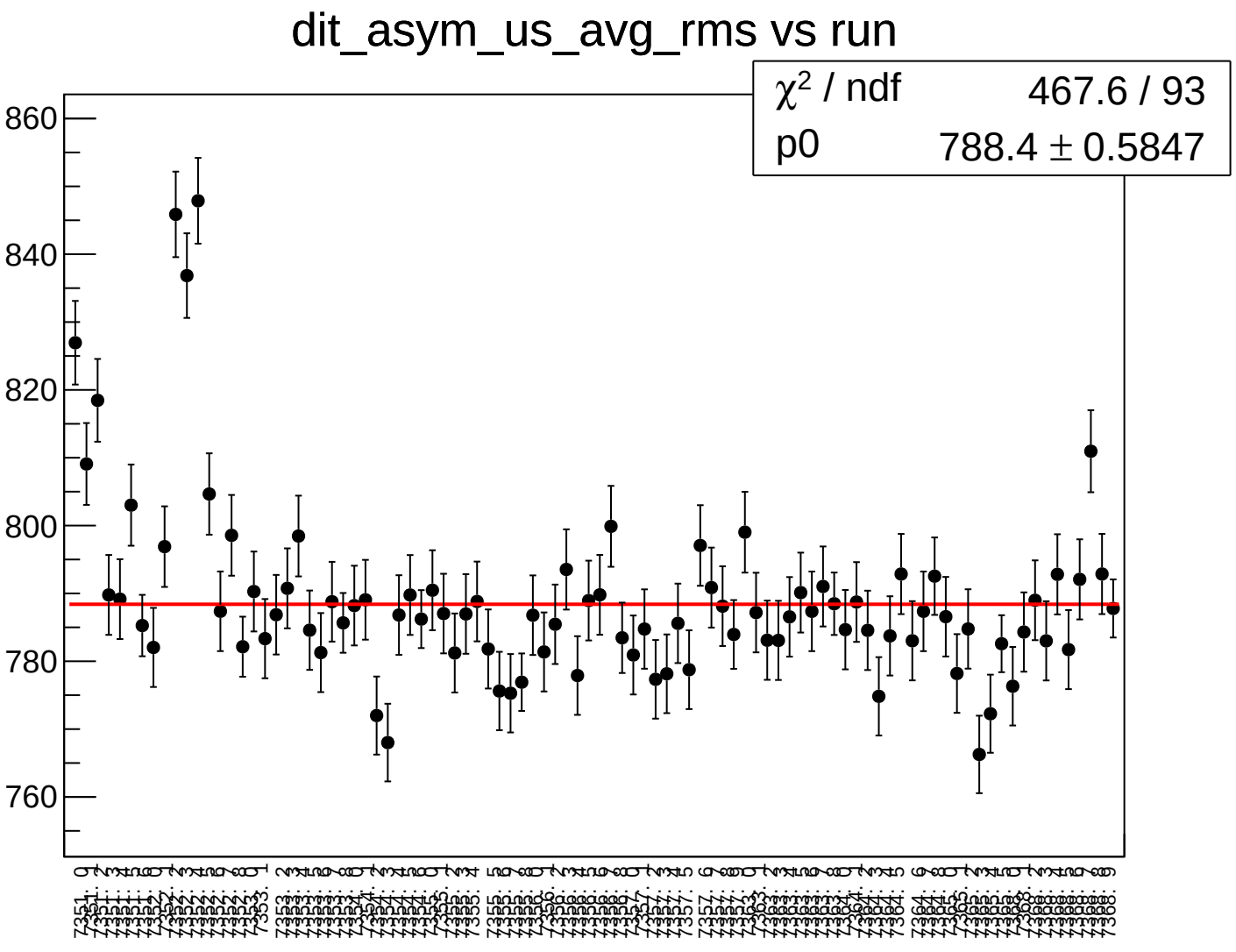

asym_us_avg_eigen_cor_correction_mean vs run
χ² / ndf 75.88 / 93
p0 1820 ± 1791
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −92.63
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

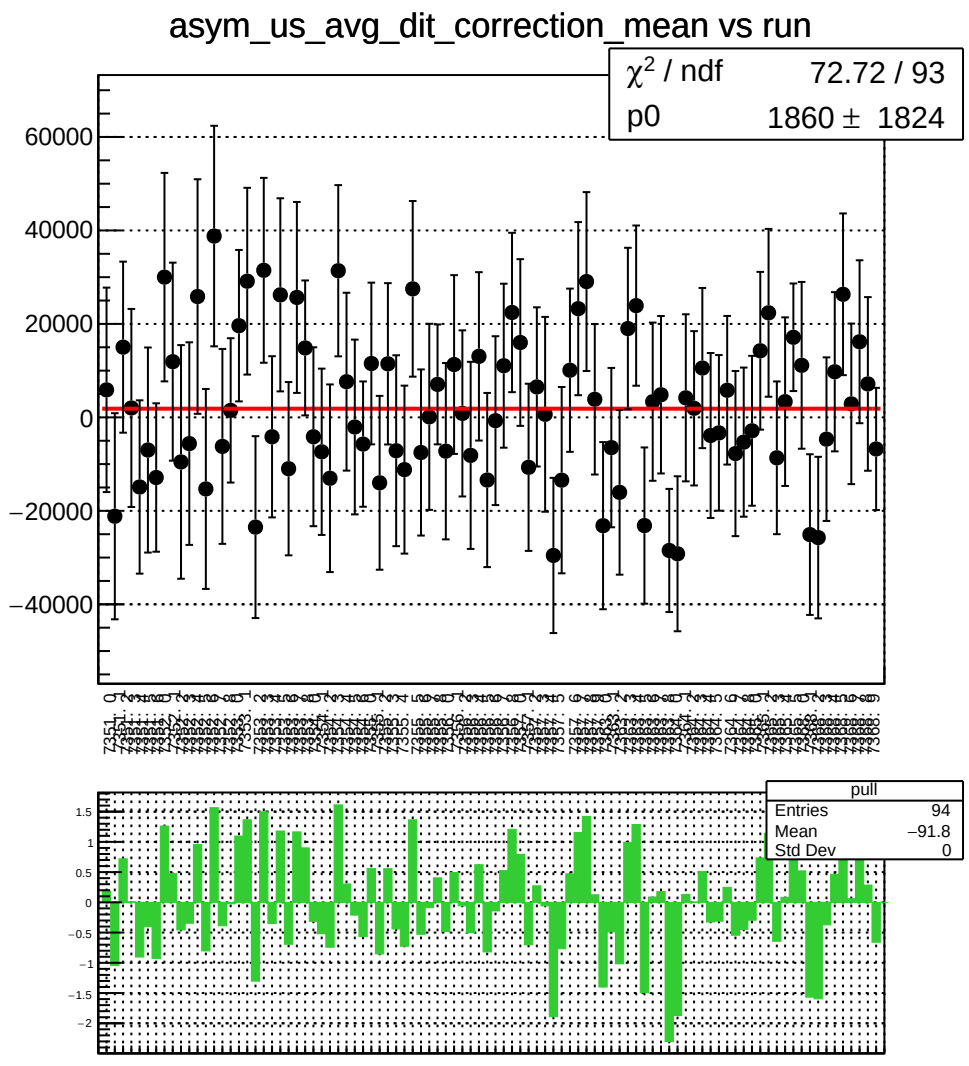

pull1D
Entries 94
Mean 0.01426
Std Dev 0.8984
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

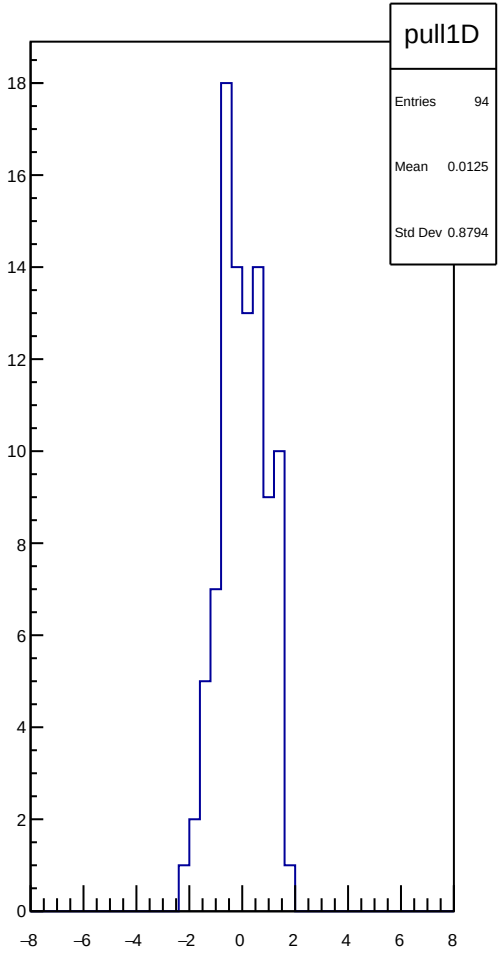

asym_us_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.634e+04 / 93
p0 1700 ± 1.266
2400
2200
2000
1800
1600
1400

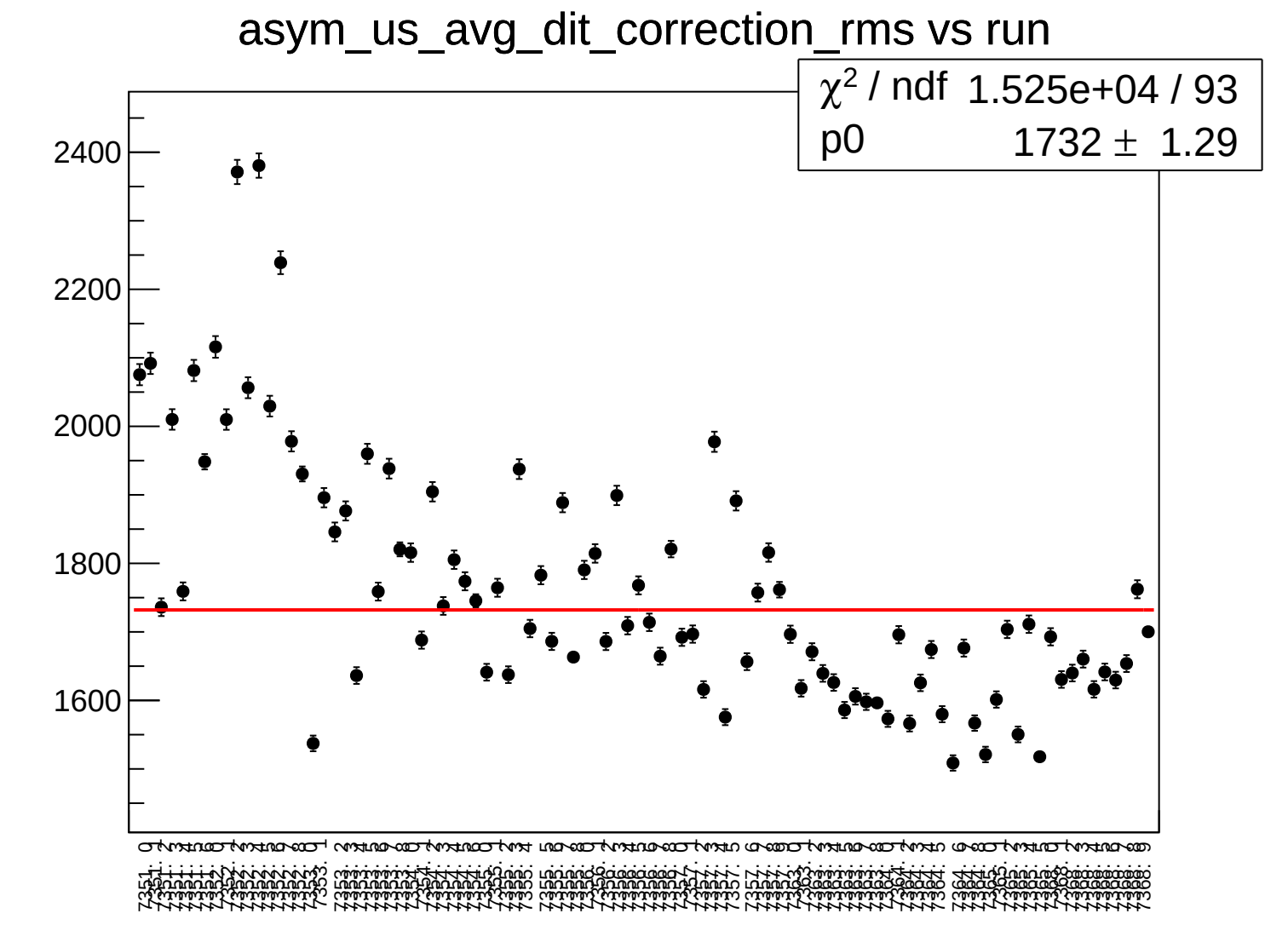

dit_asym_us_avg_mean vs run
χ² / ndf 67.74 / 93
p0 −1169 ± 826.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean 74.69
Std Dev 0
2
1
0
−1
−2

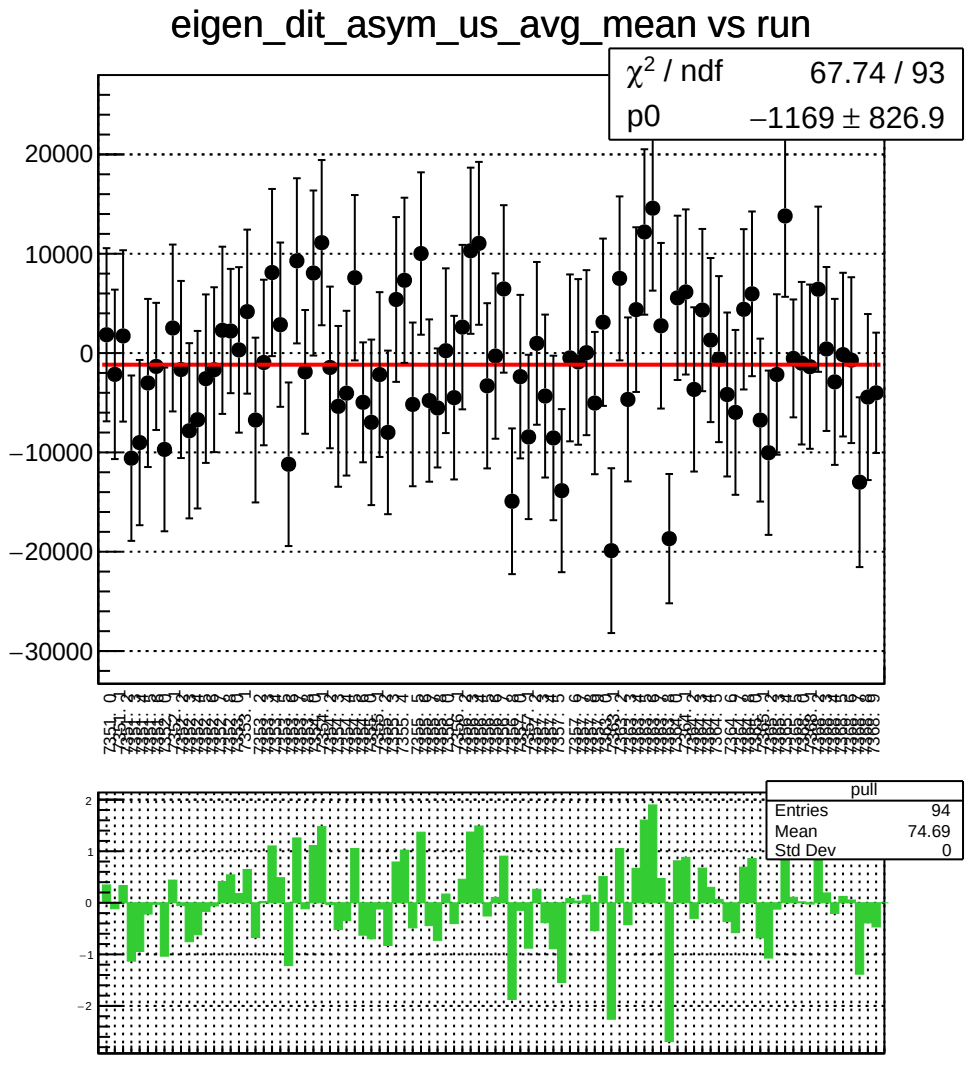

pull1D
Entries 94
Mean 0.01612
Std Dev 0.8488
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

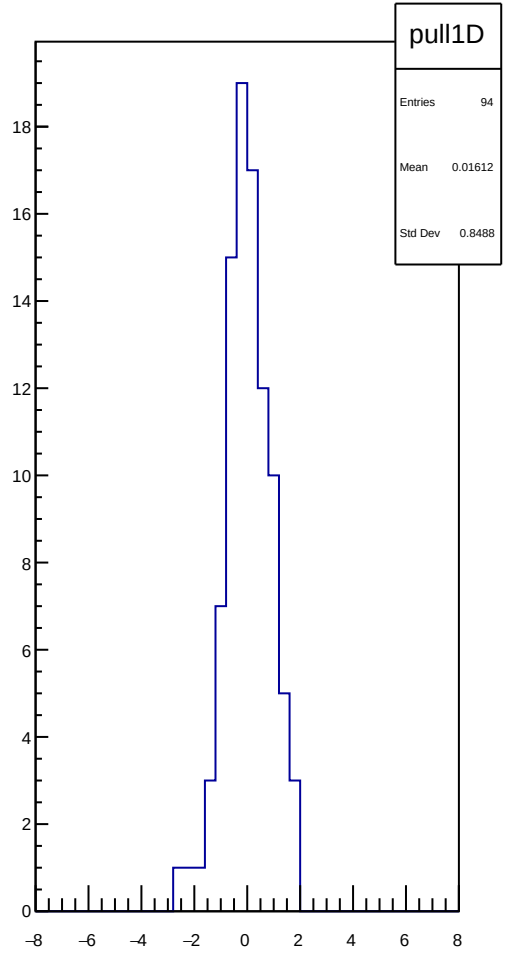

dit_asym_us_avg_rms vs run
χ² / ndf 467.6 / 93
p0 788.4 ± 0.5847
860
840
820
800
780
760

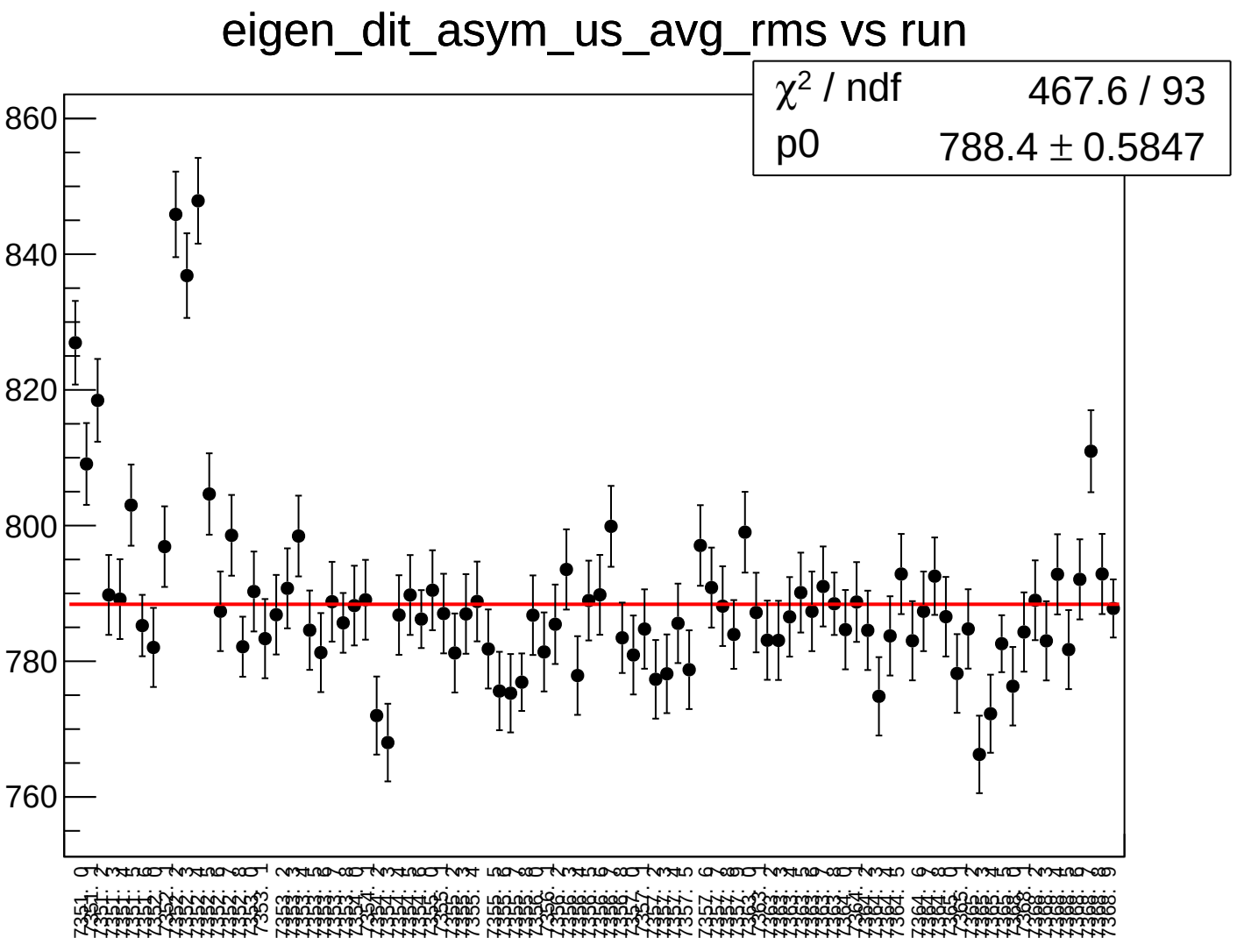

asym_us_avg_dit_correction_mean vs run
χ² / ndf 72.72 / 93
p0 1860 ± 1824
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −91.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

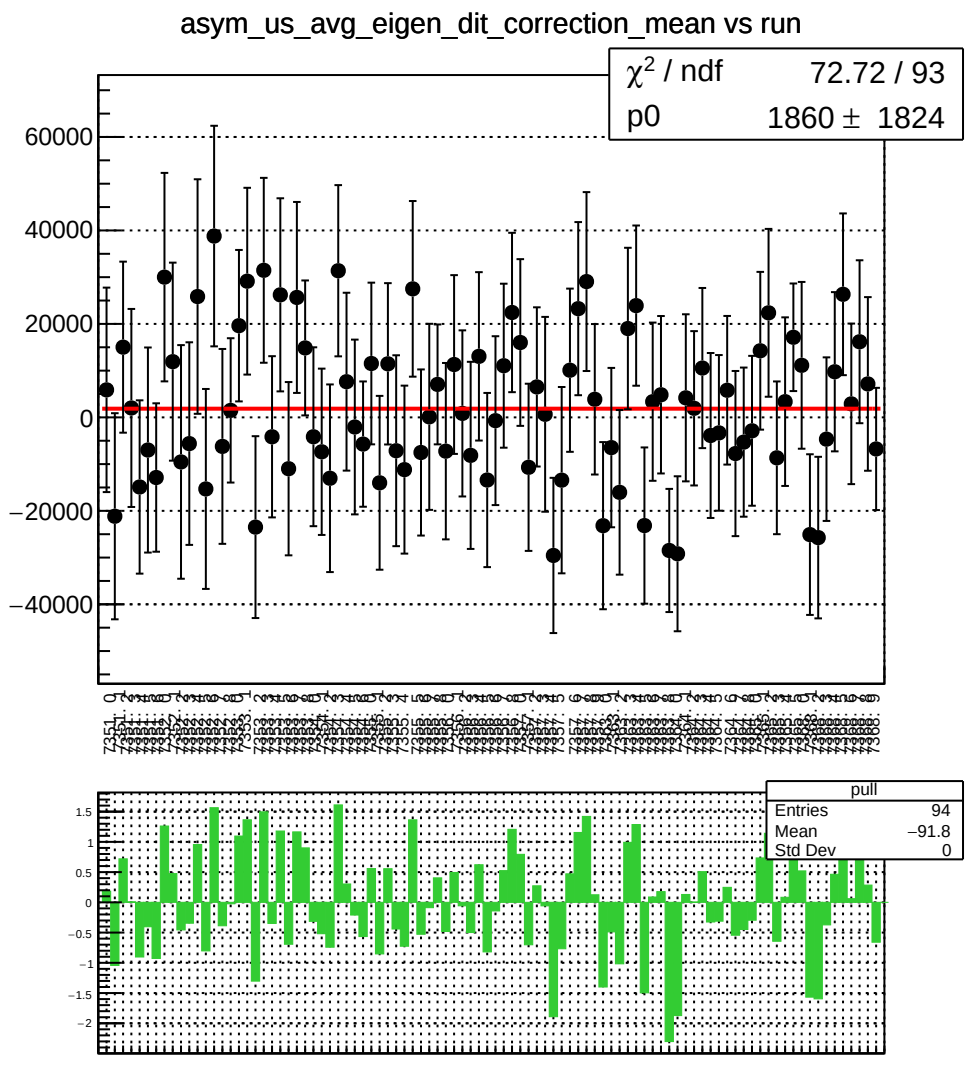

pull1D
Entries 94
Mean 0.0125
Std Dev 0.8794
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

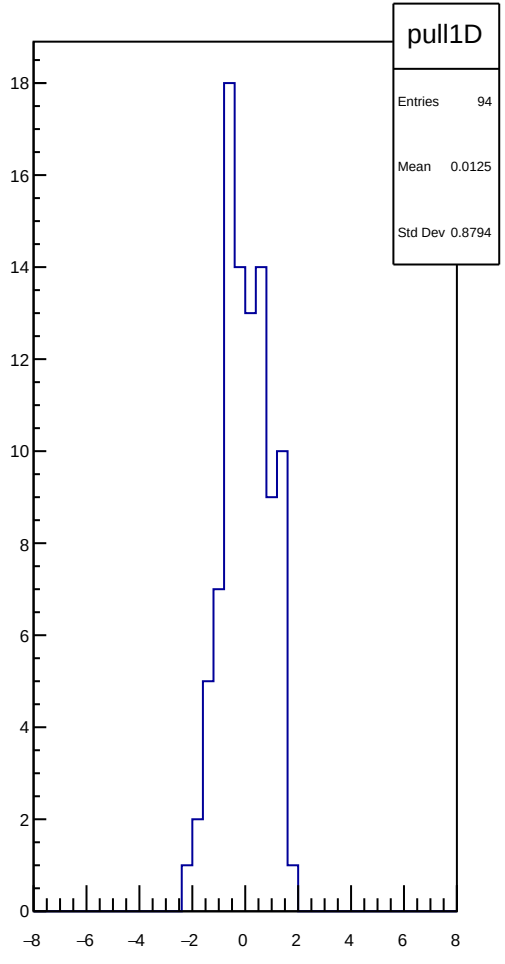

asym_us_avg_dit_correction_rms vs run
χ² / ndf 1.525e+04 / 93
p0 1732 ± 1.29
2400
2200
2000
1800
1600

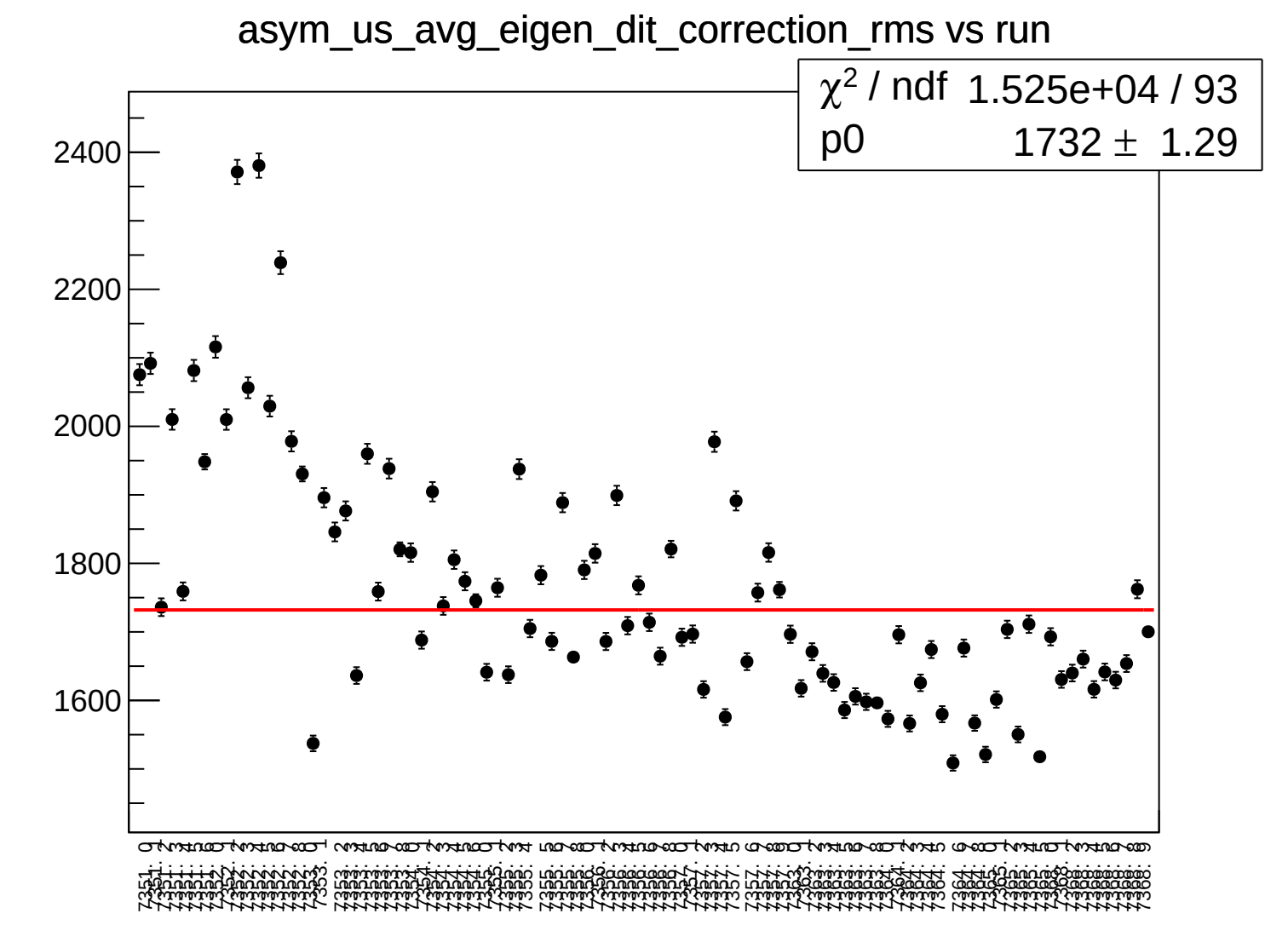

eigen_dit_asym_us_avg_mean vs run
χ² / ndf 67.74 / 93
p0 −1169 ± 826.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean 74.69
Std Dev 0
2
1
0
−1
−2

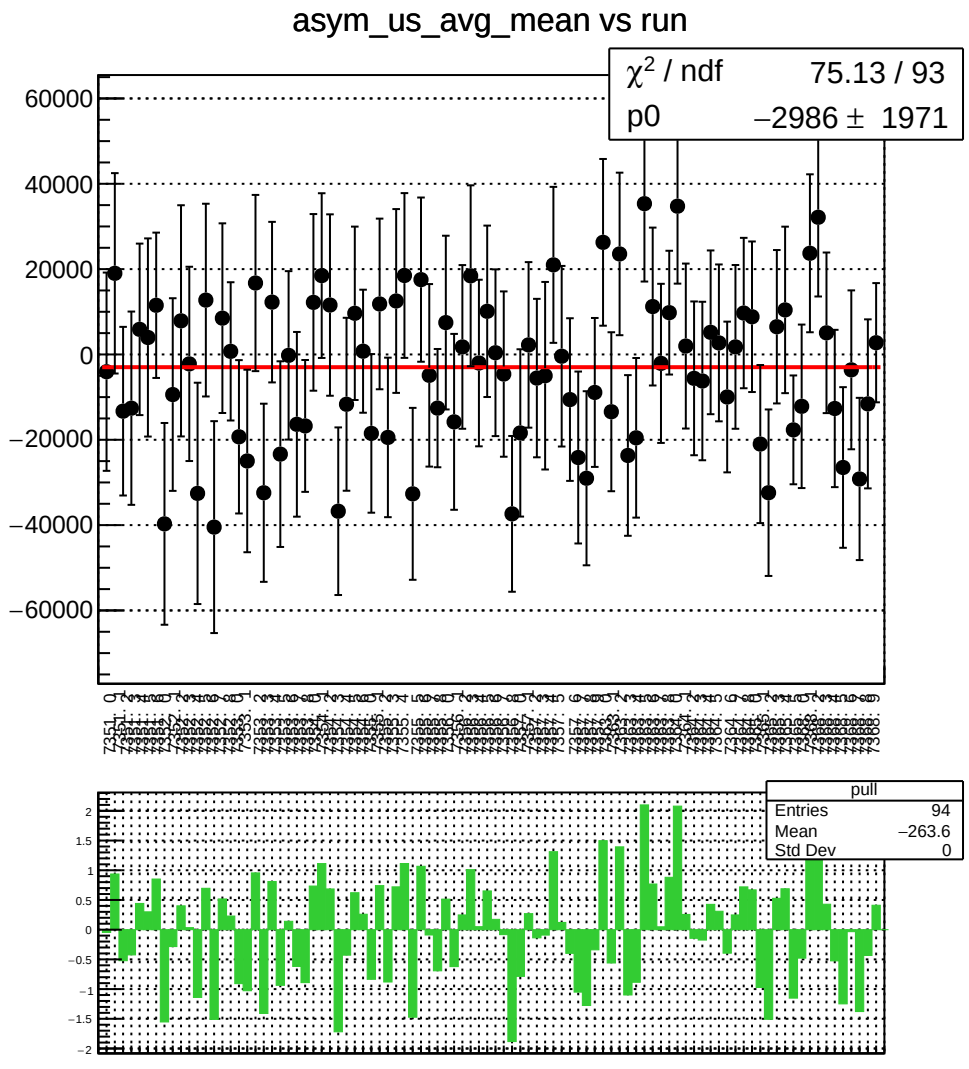

pull1D
Entries 94
Mean 0.01612
Std Dev 0.8488
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

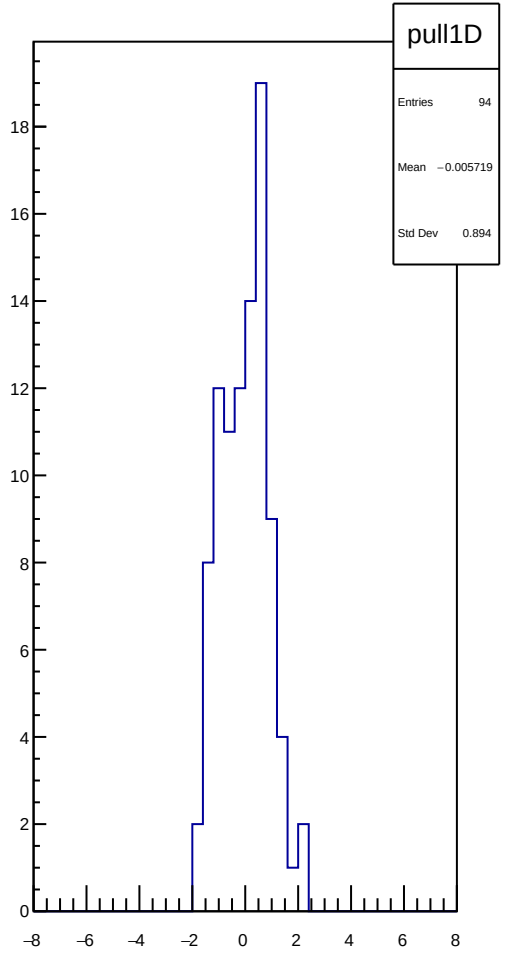

eigen_dit_asym_us_avg_rms vs run
χ² / ndf 467.6 / 93
p0 788.4 ± 0.5847
860
840
820
800
780
760

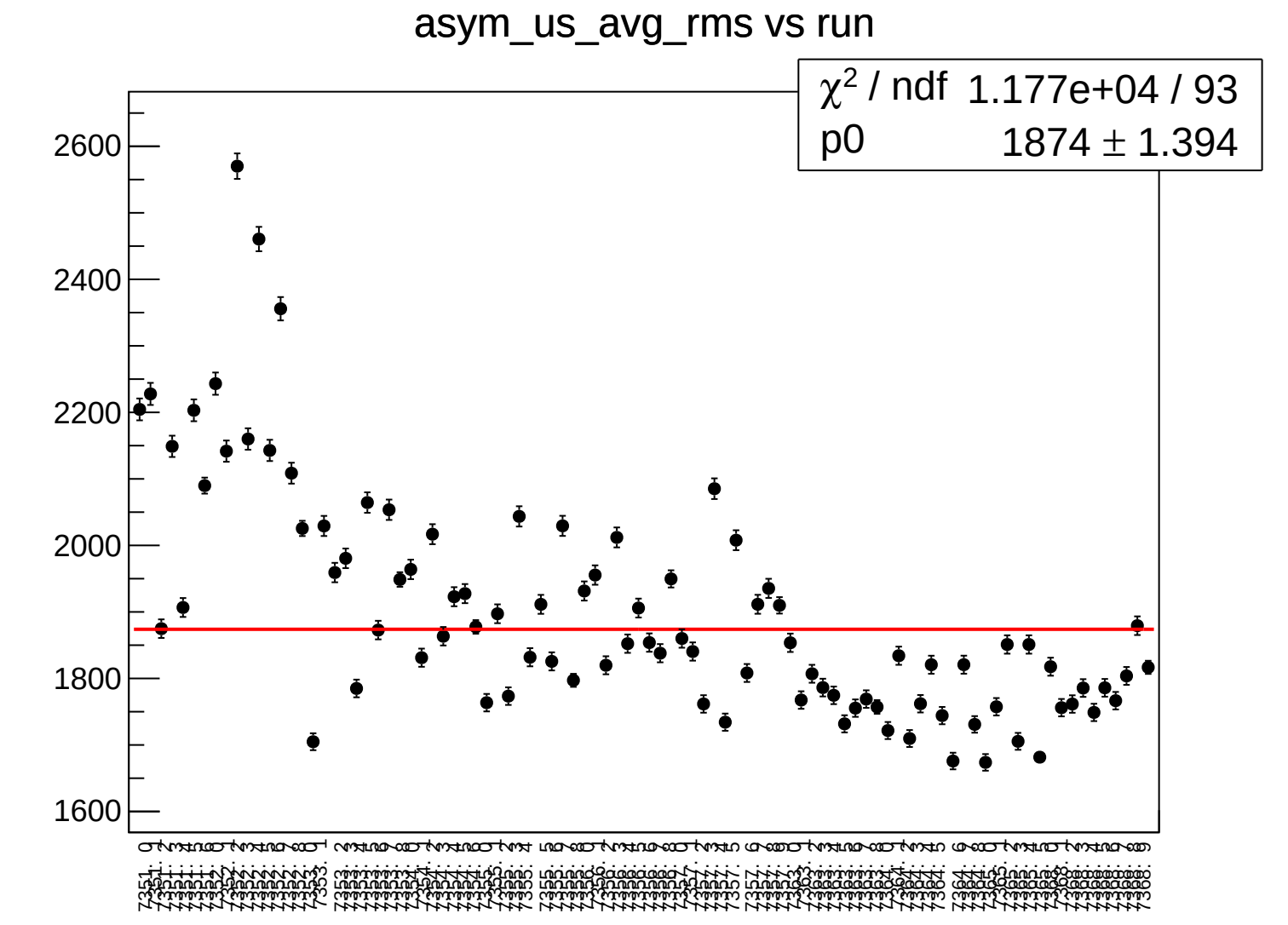

asym_us_avg_eigen_dit_correction_mean vs run
χ² / ndf 72.72 / 93
p0 1860 ± 1824
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −91.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

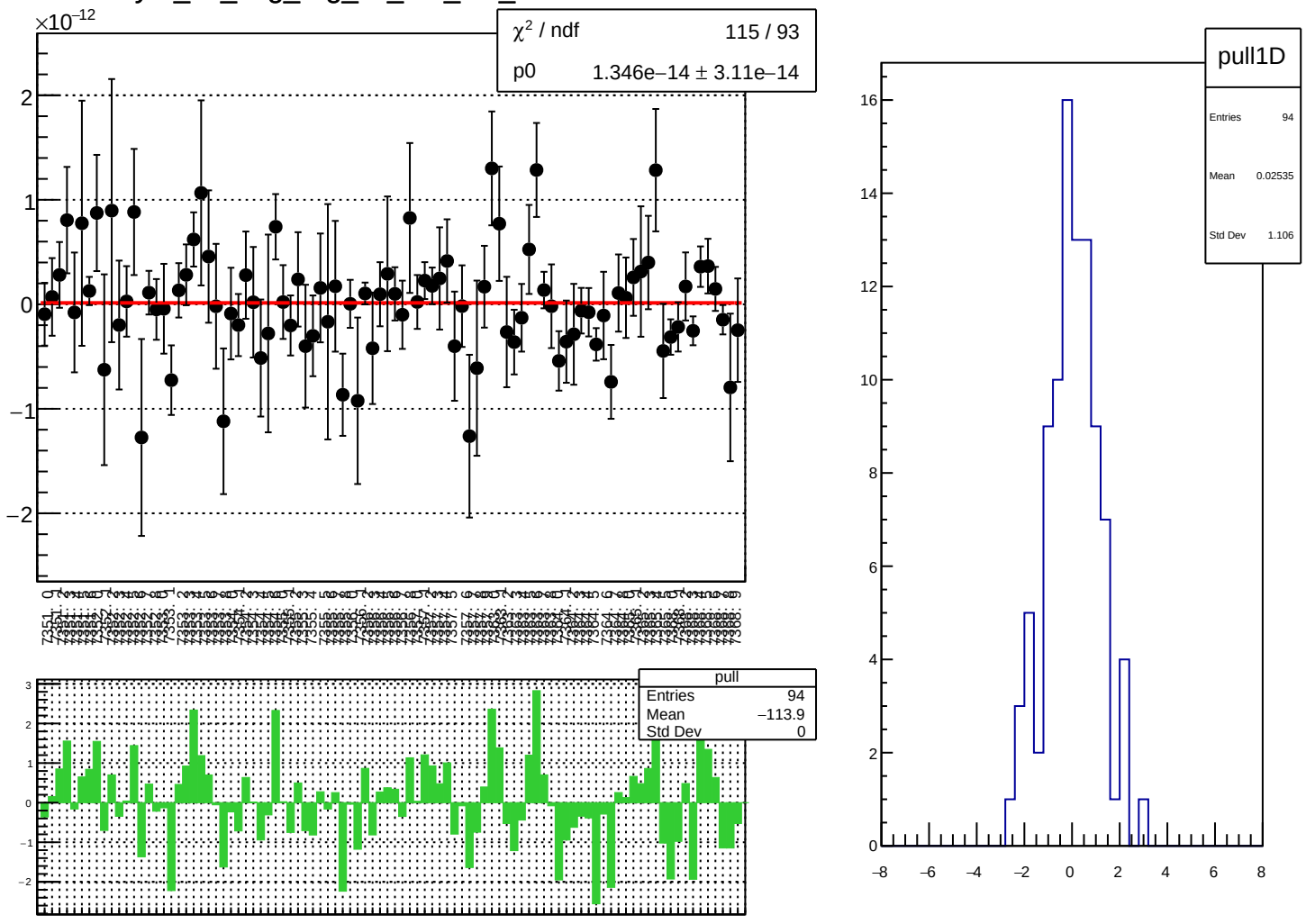

pull1D
Entries 94
Mean 0.0125
Std Dev 0.8794
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

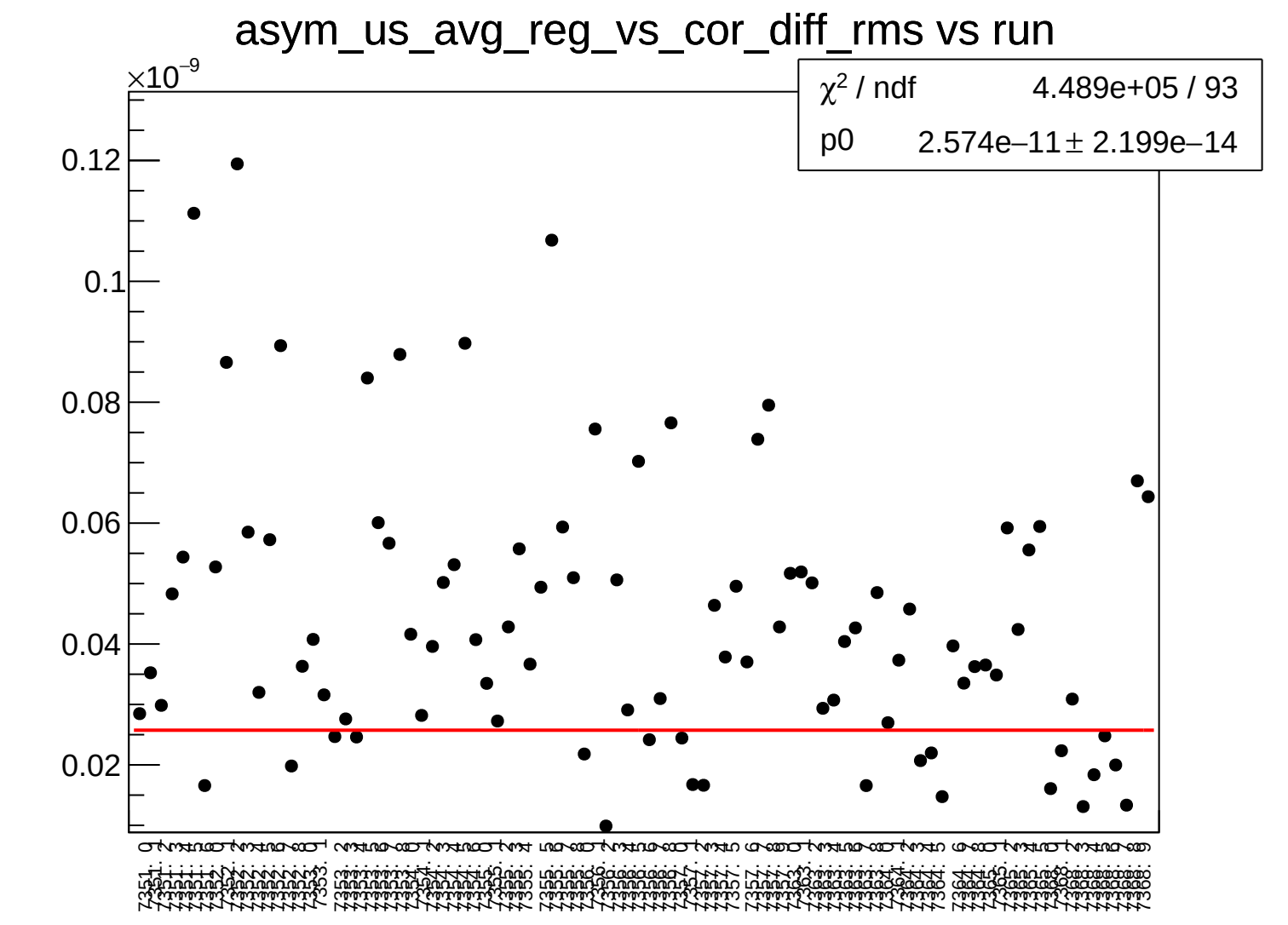

asym_us_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.525e+04 / 93
p0 1732 ± 1.29
2400
2200
2000
1800
1600

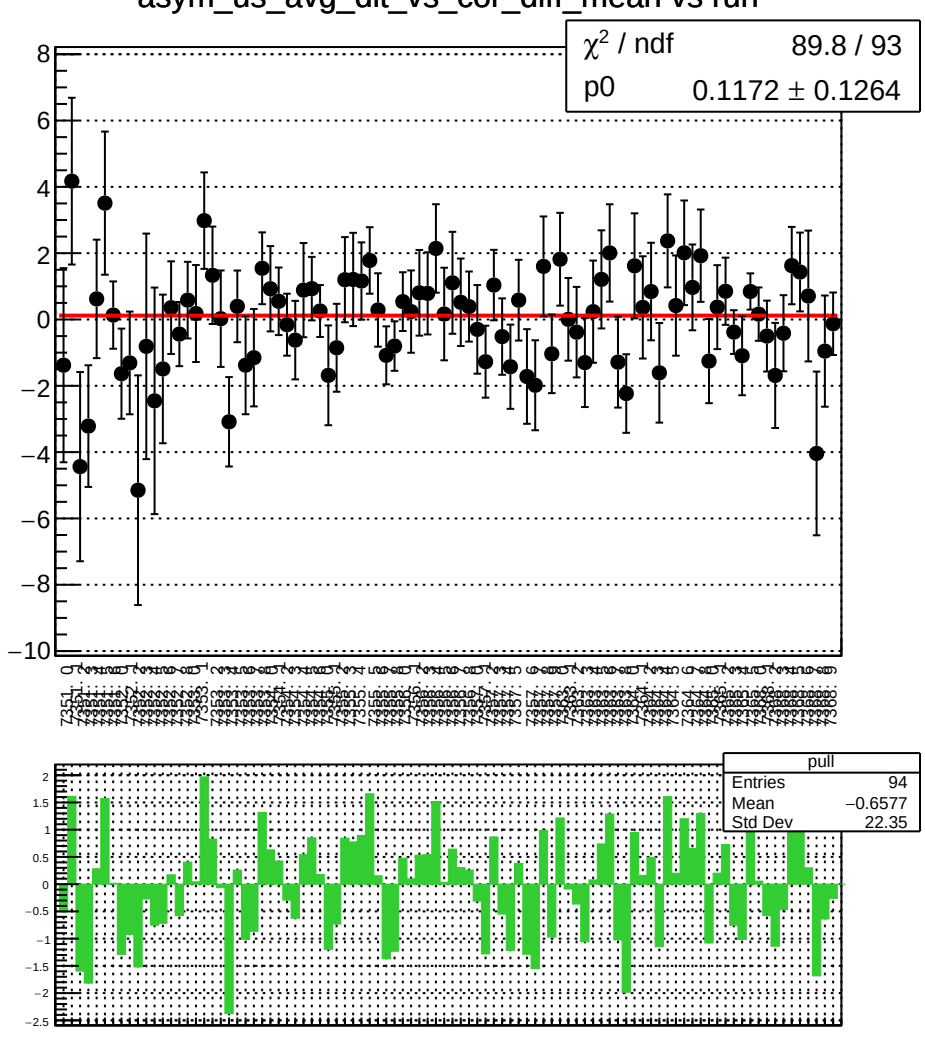

asym_us_avg_mean vs run
χ² / ndf 75.13 / 93
p0 −2986 ± 1971
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −263.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

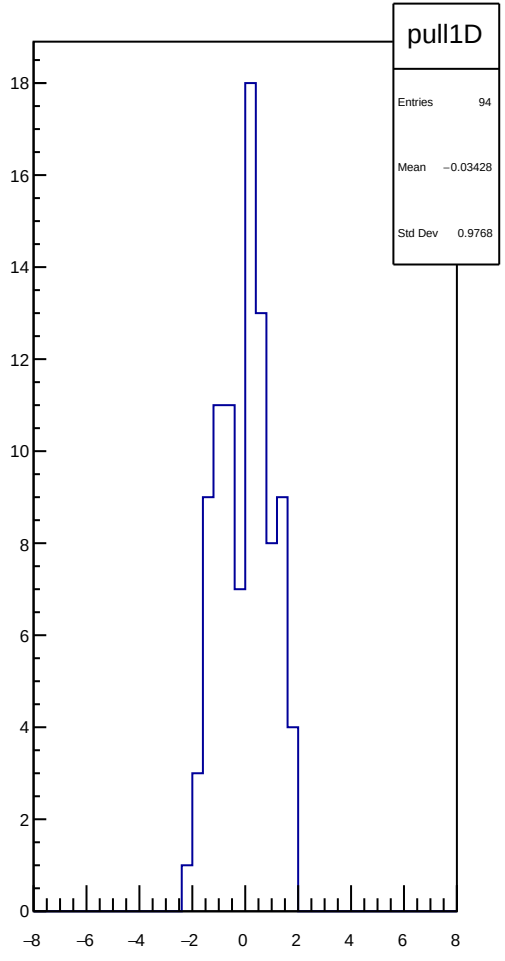

pull1D
Entries 94
Mean −0.005719
Std Dev 0.894
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

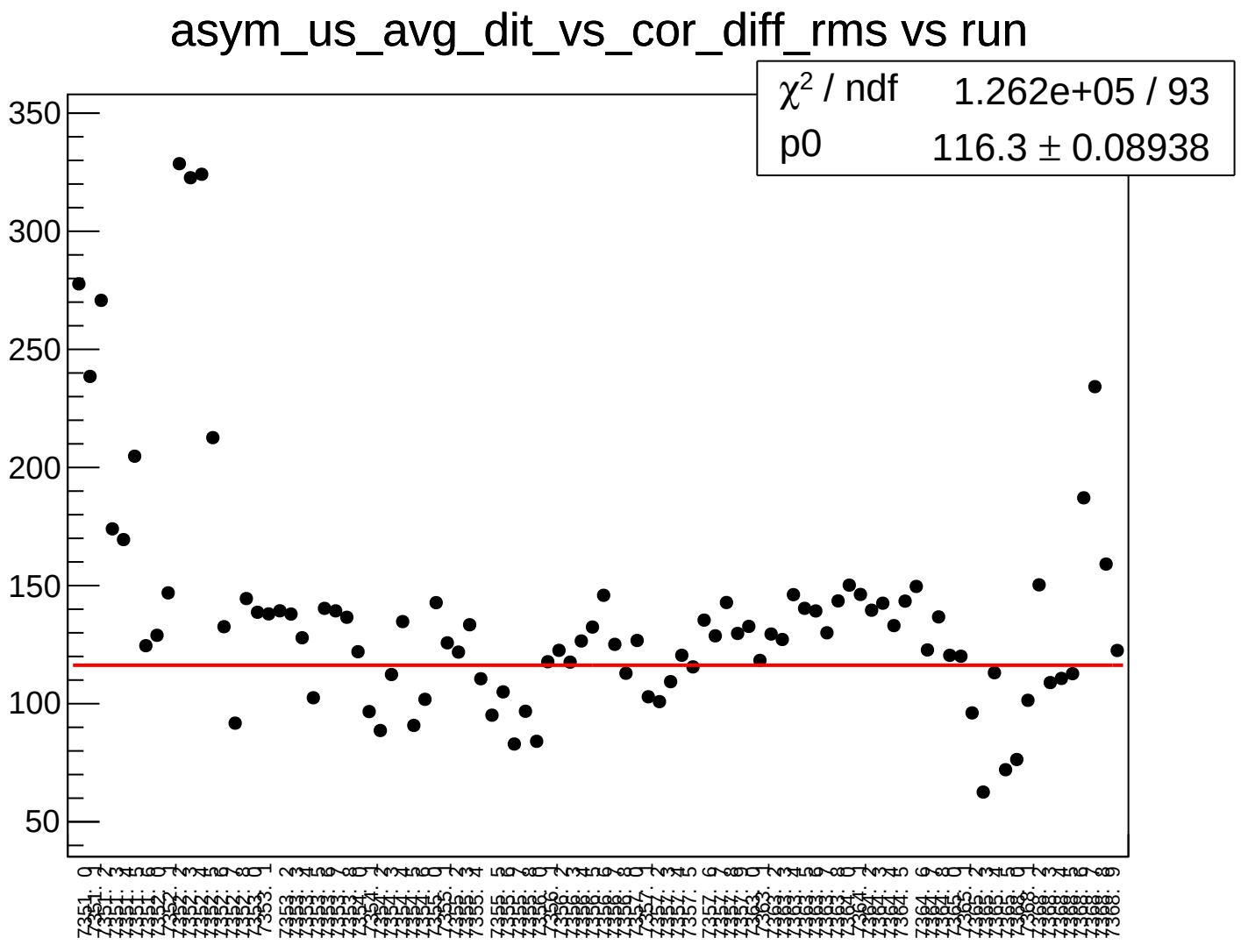

asym_us_avg_rms vs run
χ^2 / ndf 1.177e+04 / 93
p0 1874 ± 1.394
2600
2400
2200
2000
1800
1600

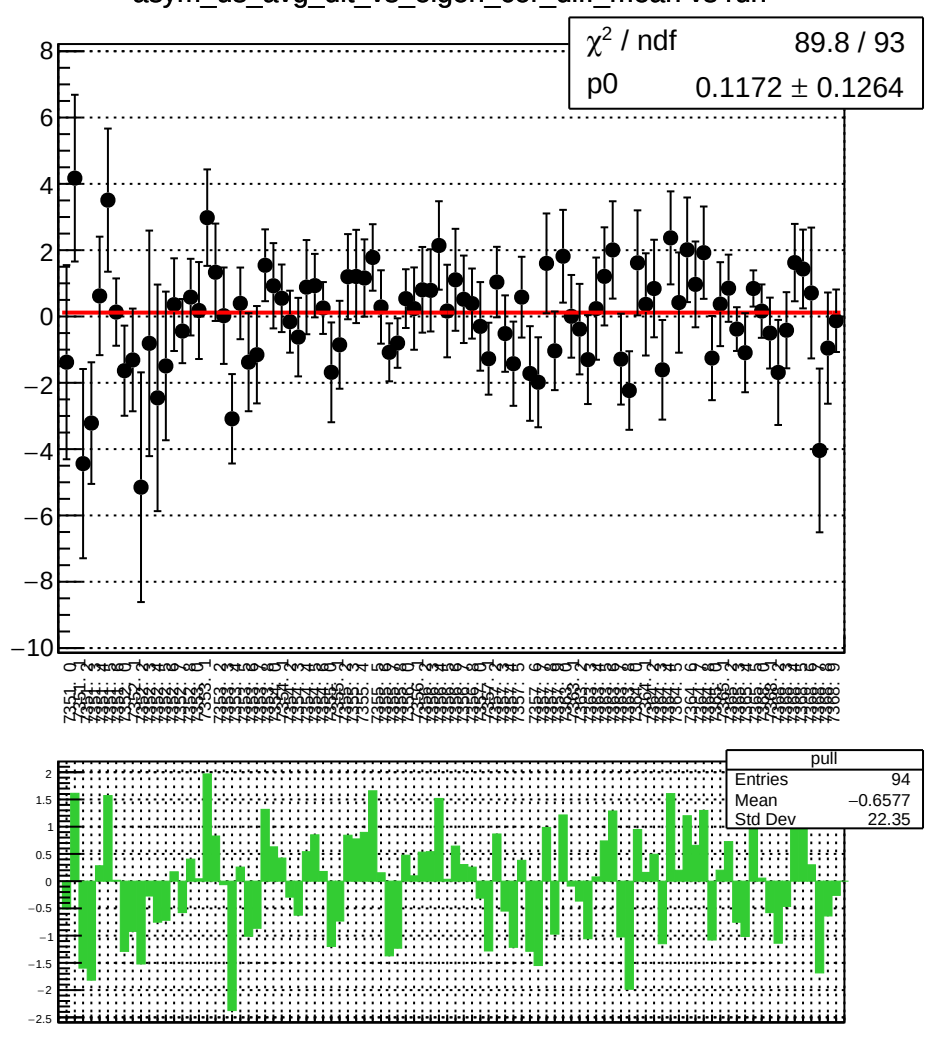

asym_us_avg_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 115 / 93
p0 1.346e−14 ± 3.11e−14
pull
Entries 94
Mean −113.9
Std Dev 0
pull1D
Entries 94
Mean 0.02535
Std Dev 1.106

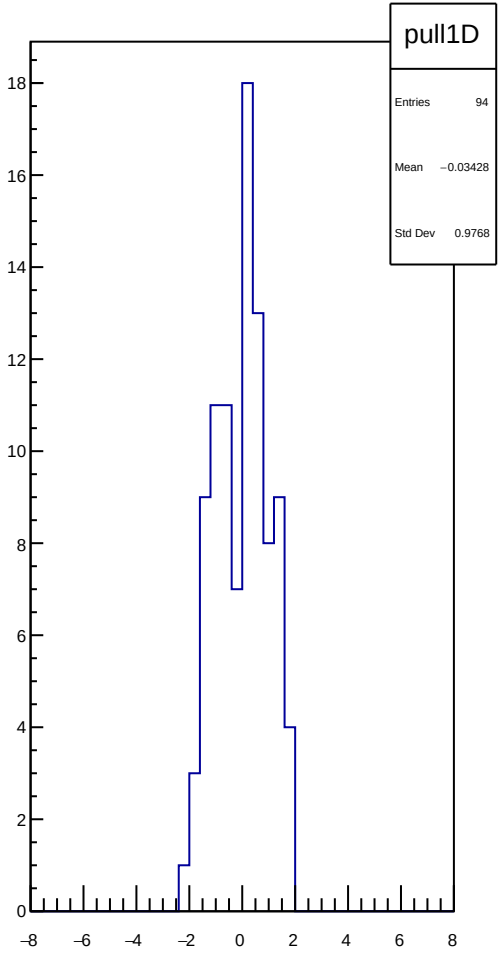

asym_us_avg_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.489e+05 / 93
p0 2.574e−11 ± 2.199e−14
0.12
0.1
0.08
0.06
0.04
0.02

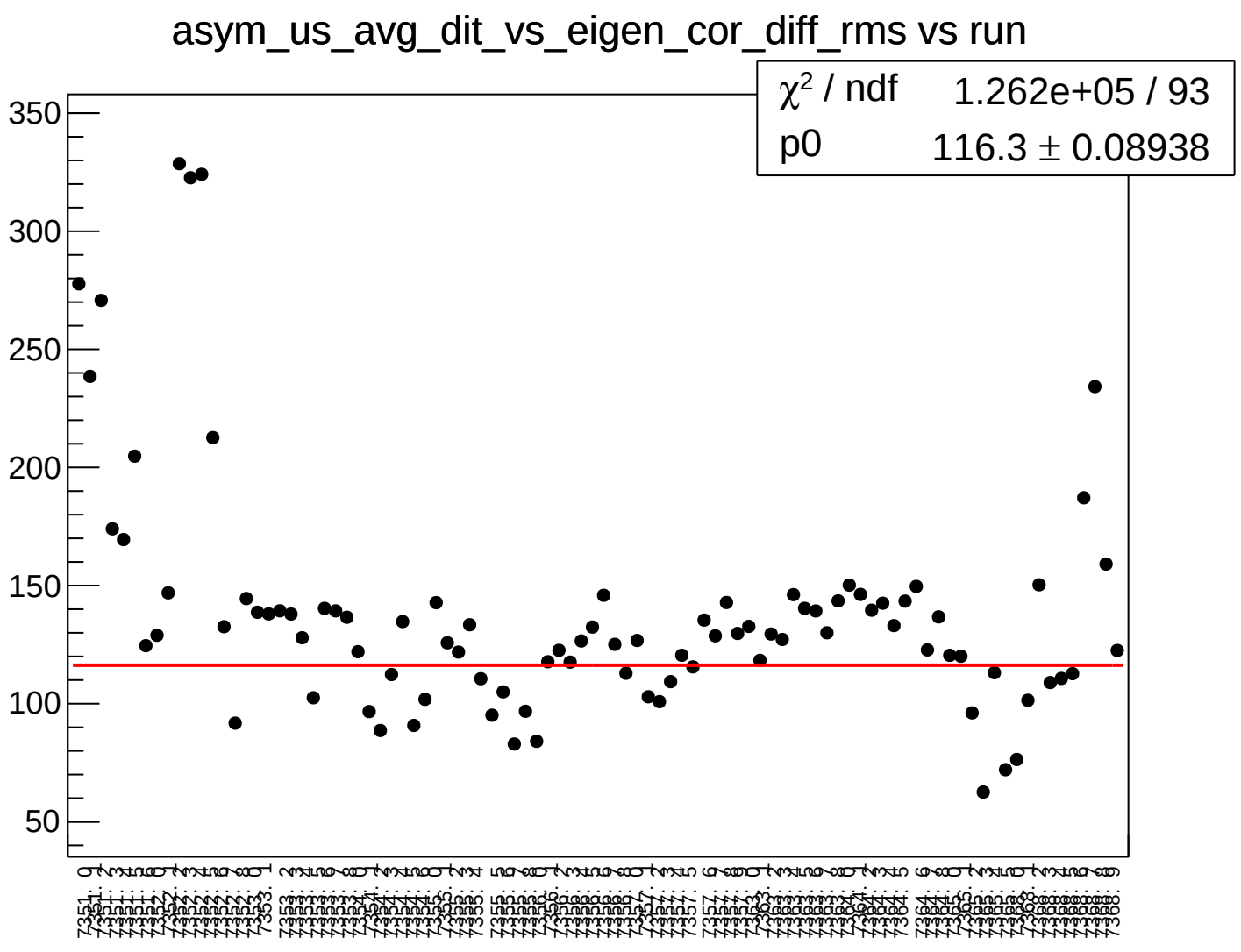

asym_us_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 89.8 / 93
p0 0.1172 ± 0.1264
pull
Entries 94
Mean −0.6577
Std Dev 22.35

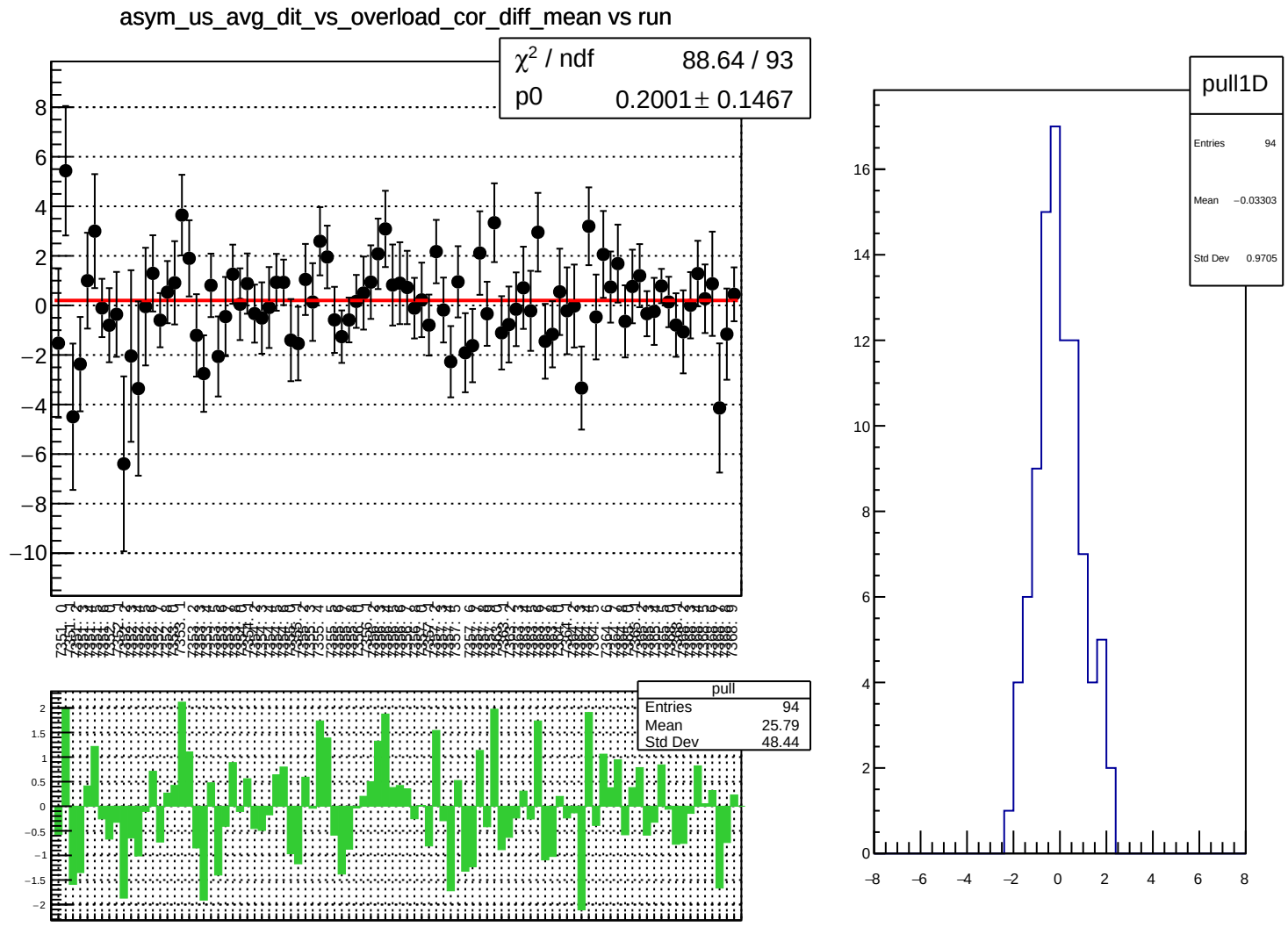

pull1D
Entries 94
Mean −0.03428
Std Dev 0.9768

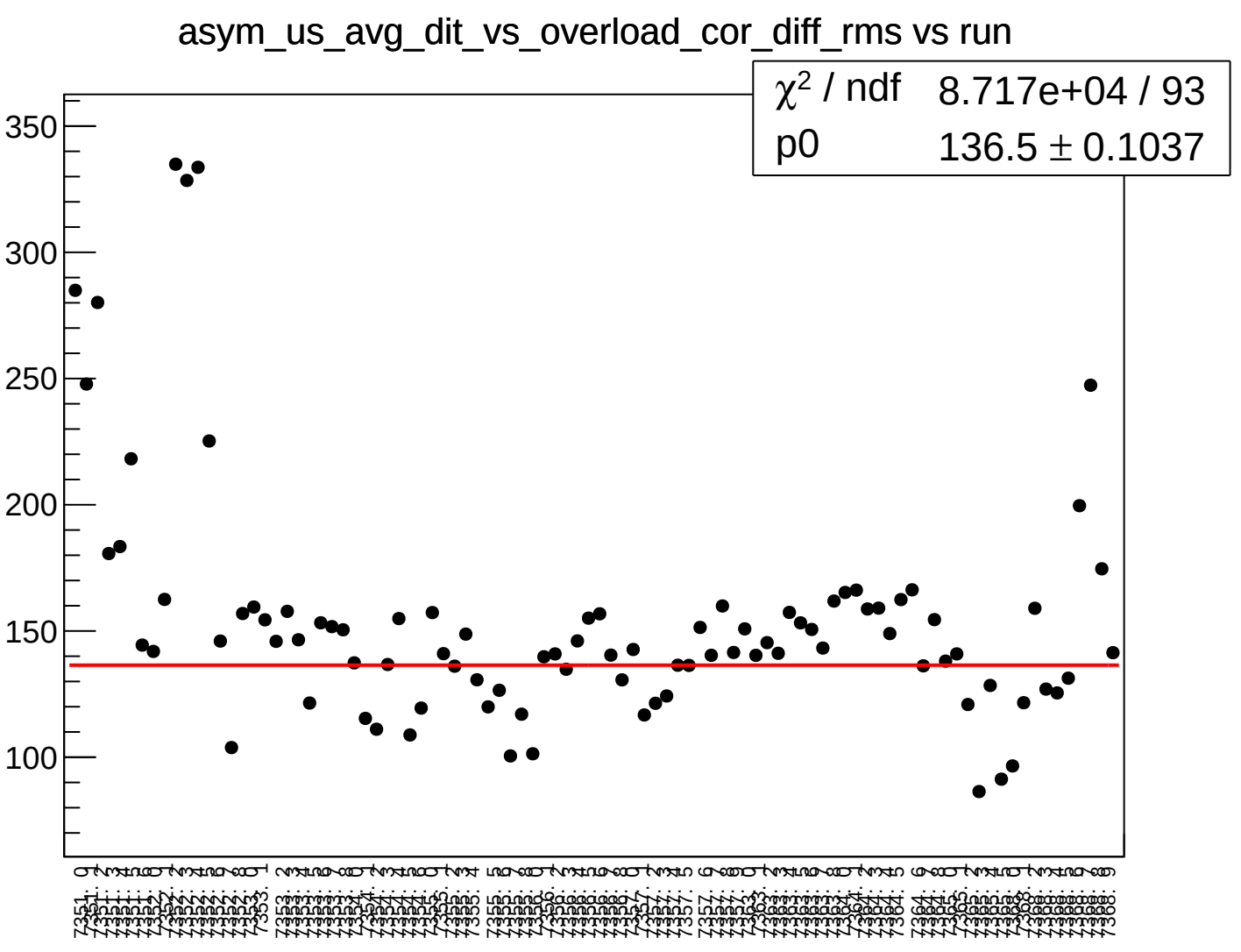

asym_us_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.262e+05 / 93
p0 116.3 ± 0.08938
350
300
250
200
150
100
50

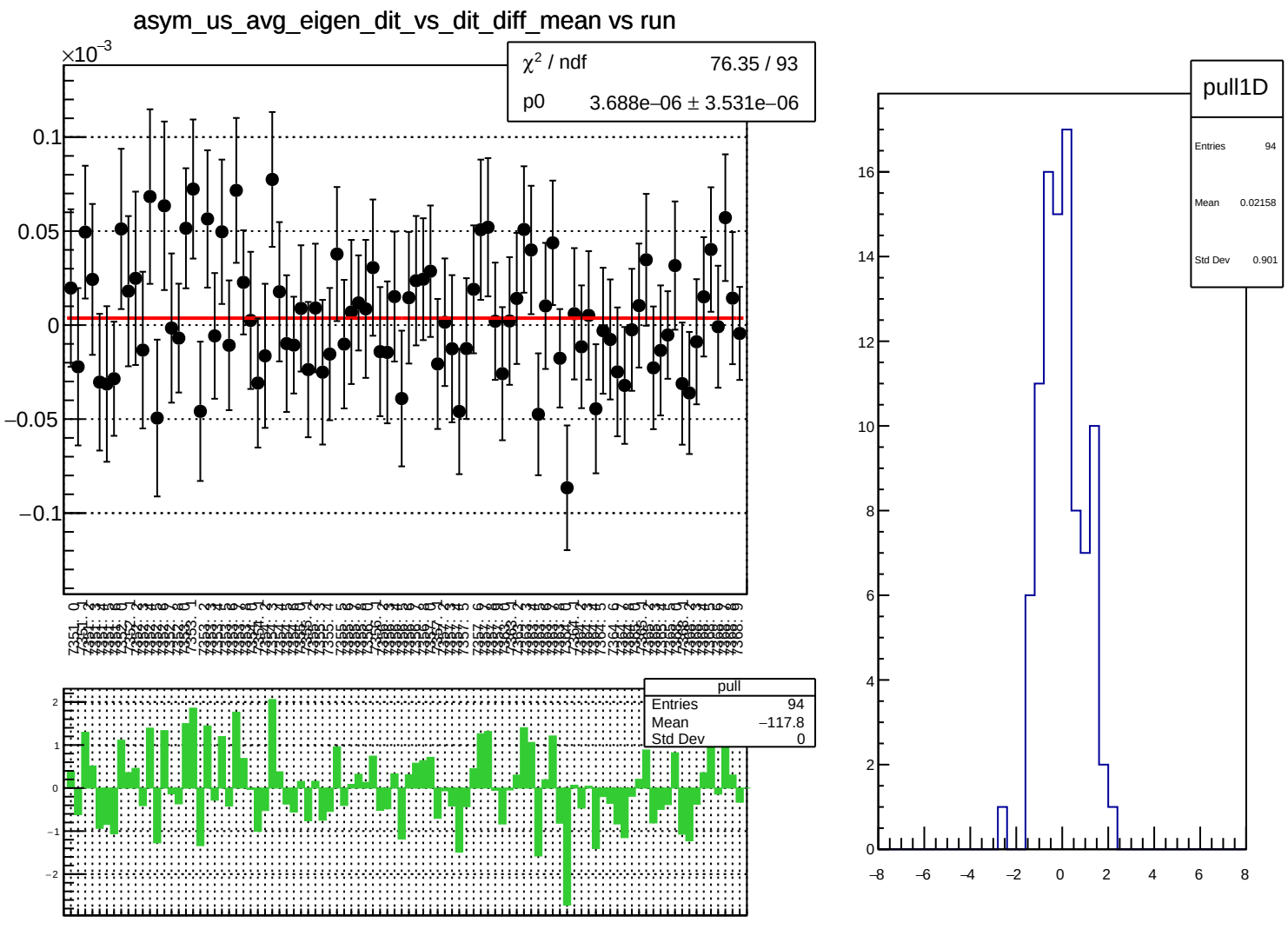

asym_us_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.8 / 93
p0 0.1172 ± 0.1264
pull
Entries 94
Mean −0.6577
Std Dev 22.35

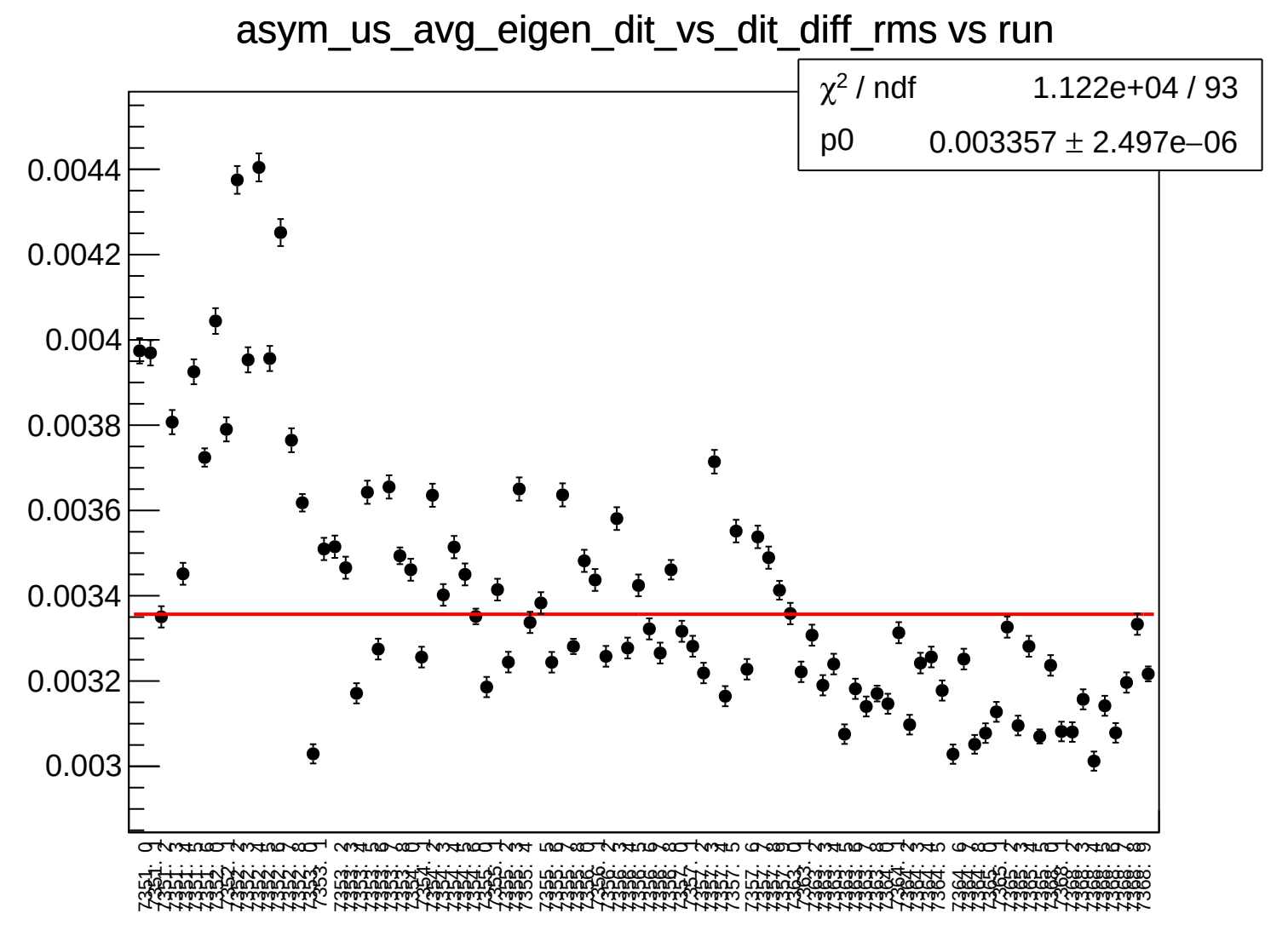

pull1D
Entries 94
Mean −0.03428
Std Dev 0.9768

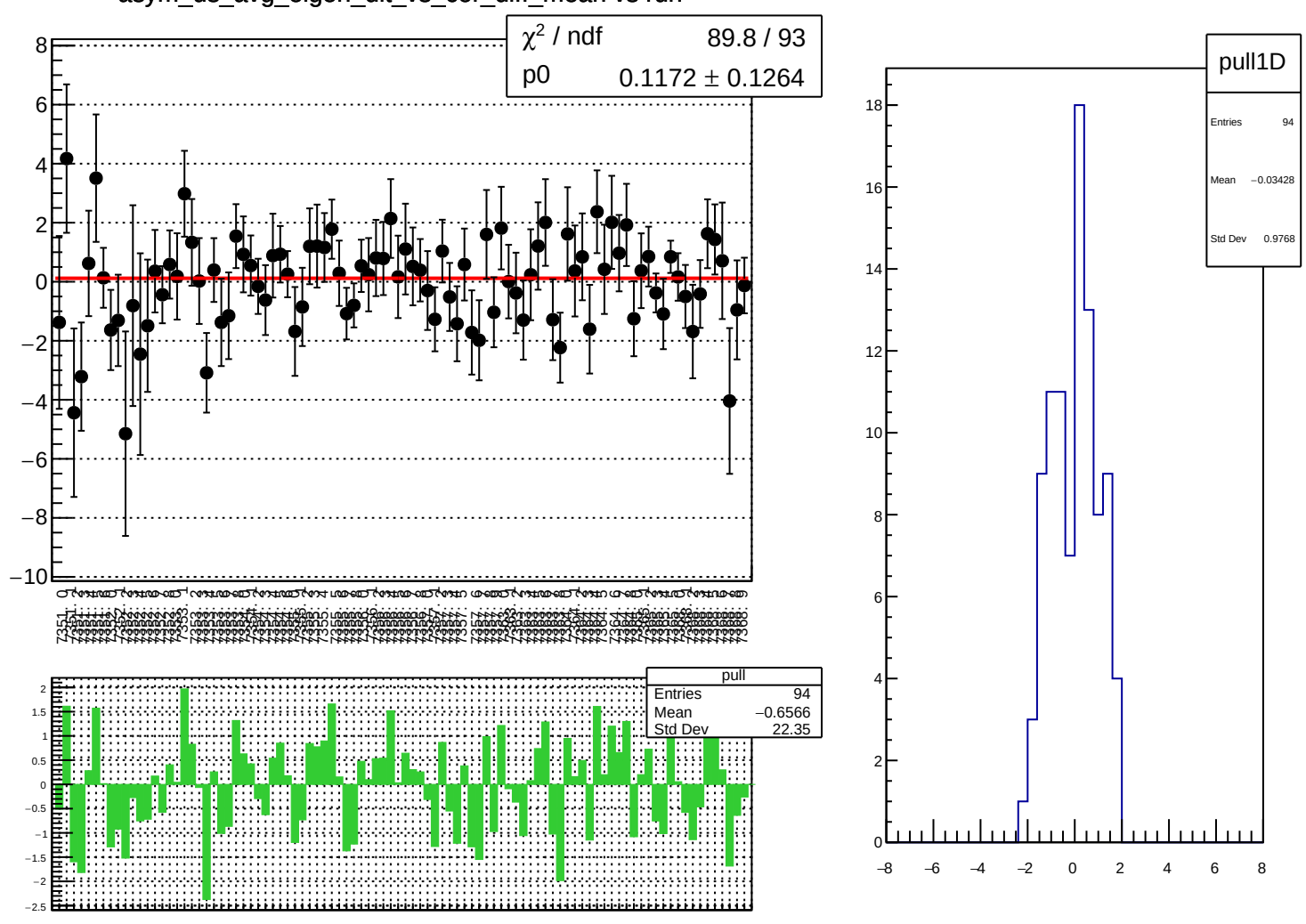

asym_us_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.262e+05 / 93
p0 116.3 ± 0.08938
350
300
250
200
150
100
50

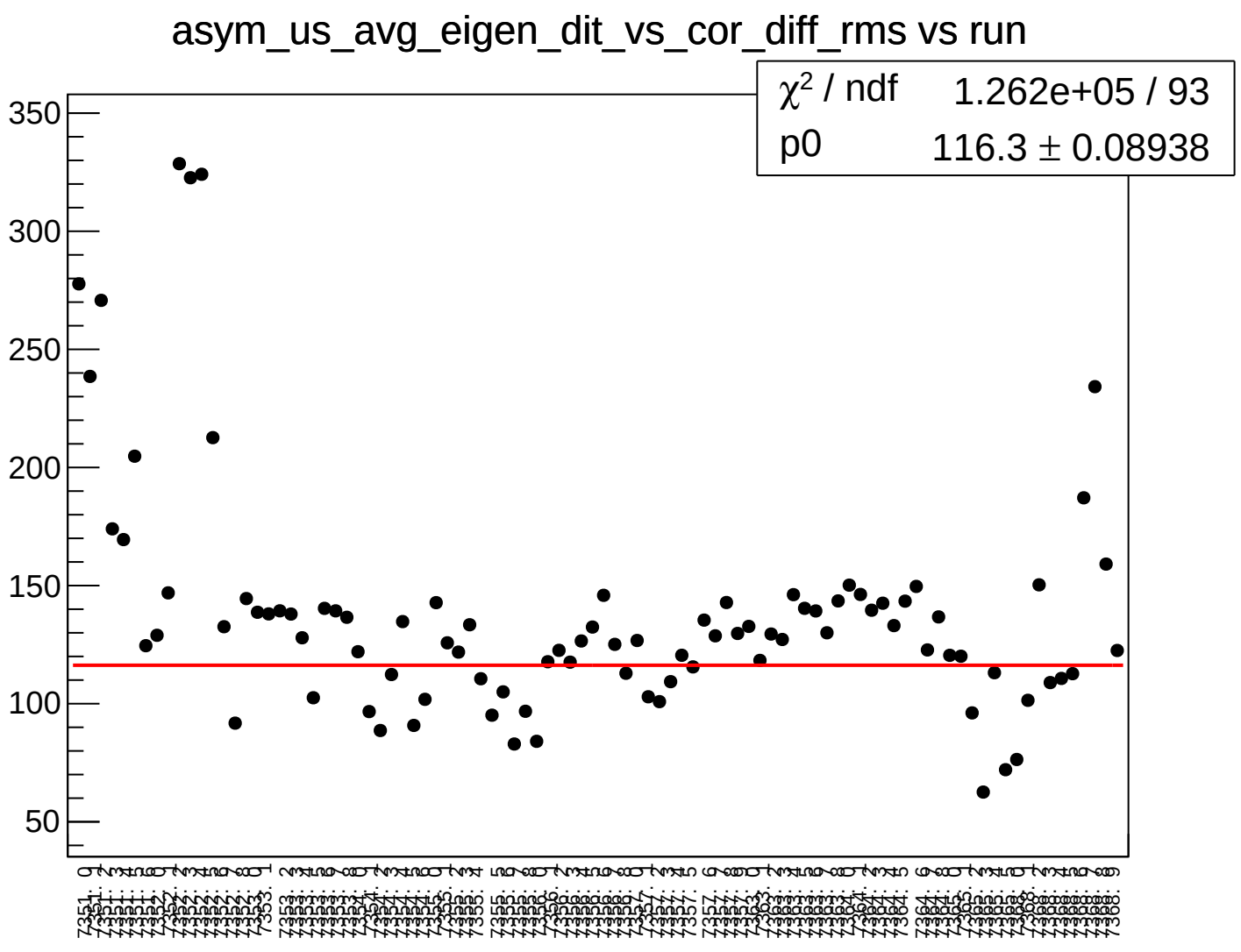

asym_us_avg_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 88.64 / 93
p0 0.2001 ± 0.1467
pull
Entries 94
Mean 25.79
Std Dev 48.44
pull1D
Entries 94
Mean −0.03303
Std Dev 0.9705

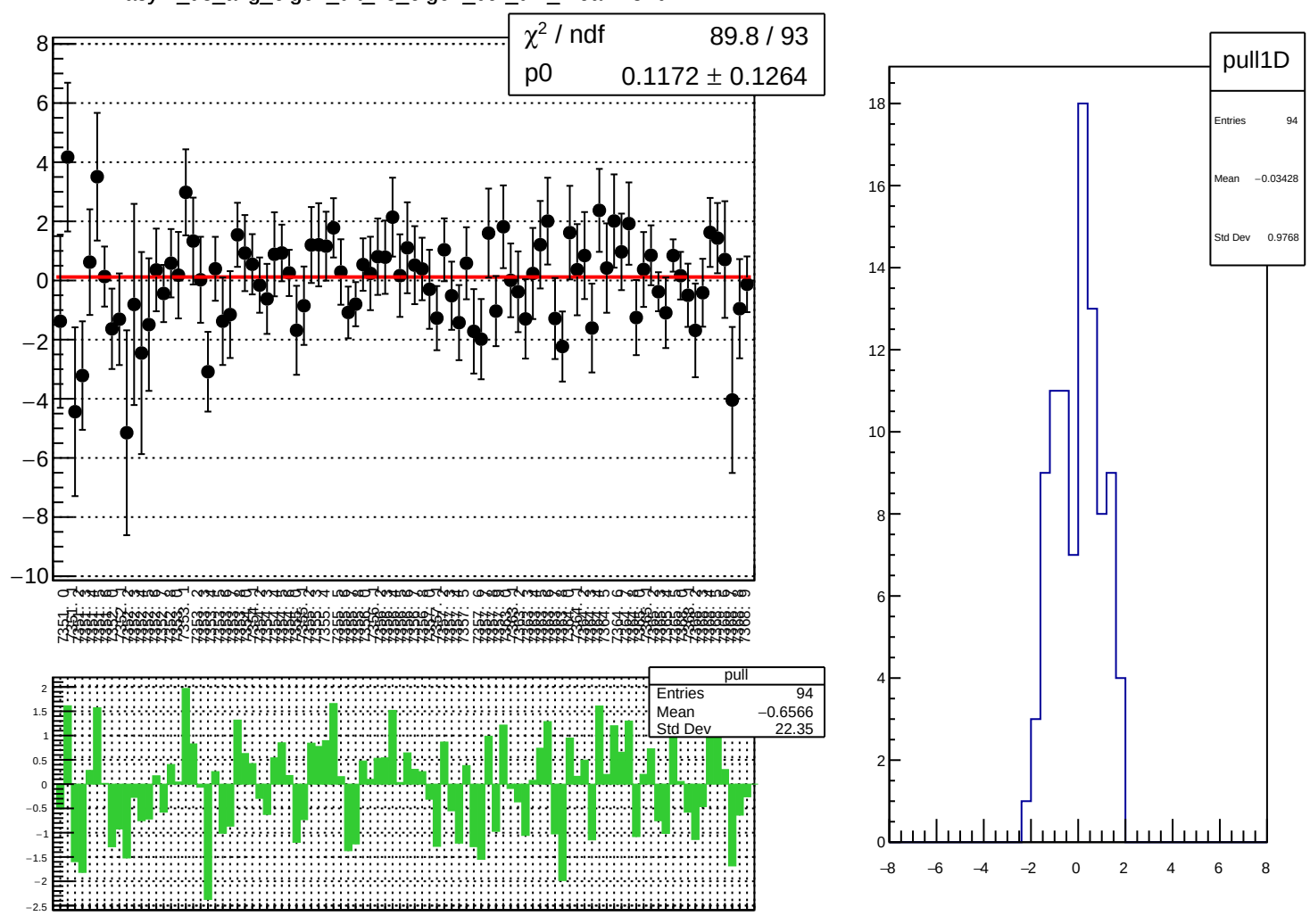

asym_us_avg_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 8.717e+04 / 93
p0 136.5 ± 0.1037
350
300
250
200
150
100

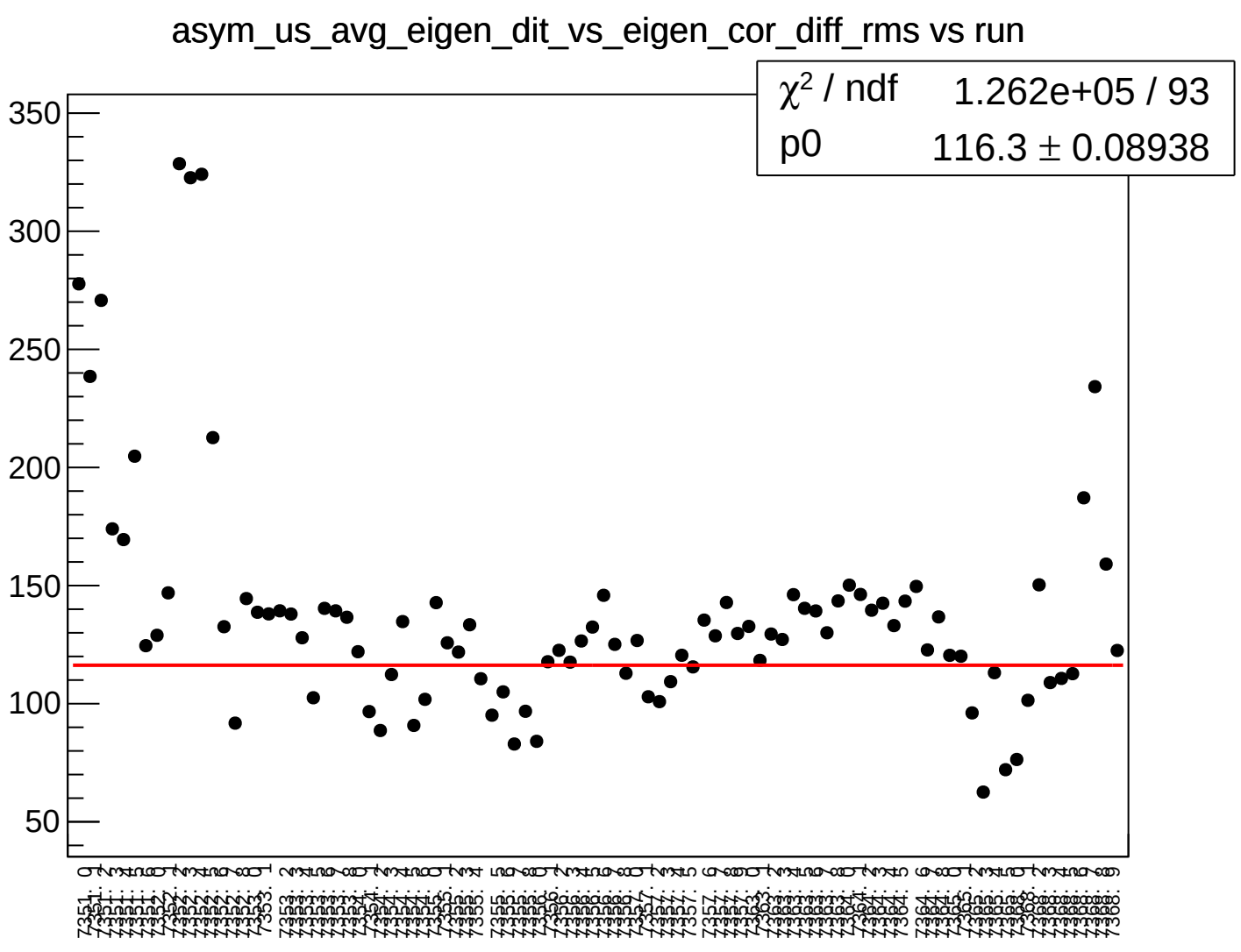

asym_us_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 76.35 / 93
p0 3.688e−06 ± 3.531e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 94
Mean −117.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.02158
Std Dev 0.901
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

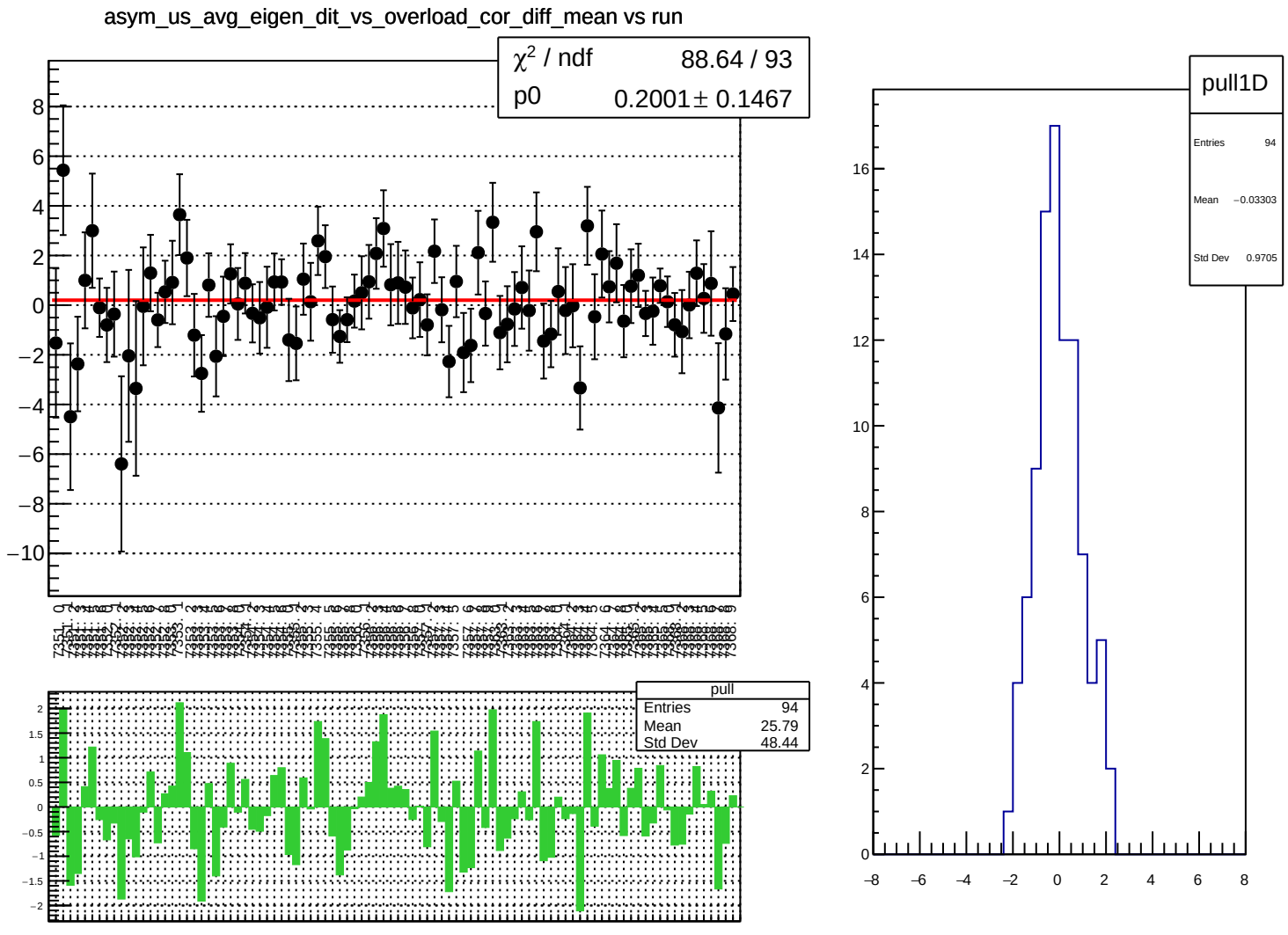

asym_us_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.122e+04 / 93
p0 0.003357 ± 2.497e−06
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003

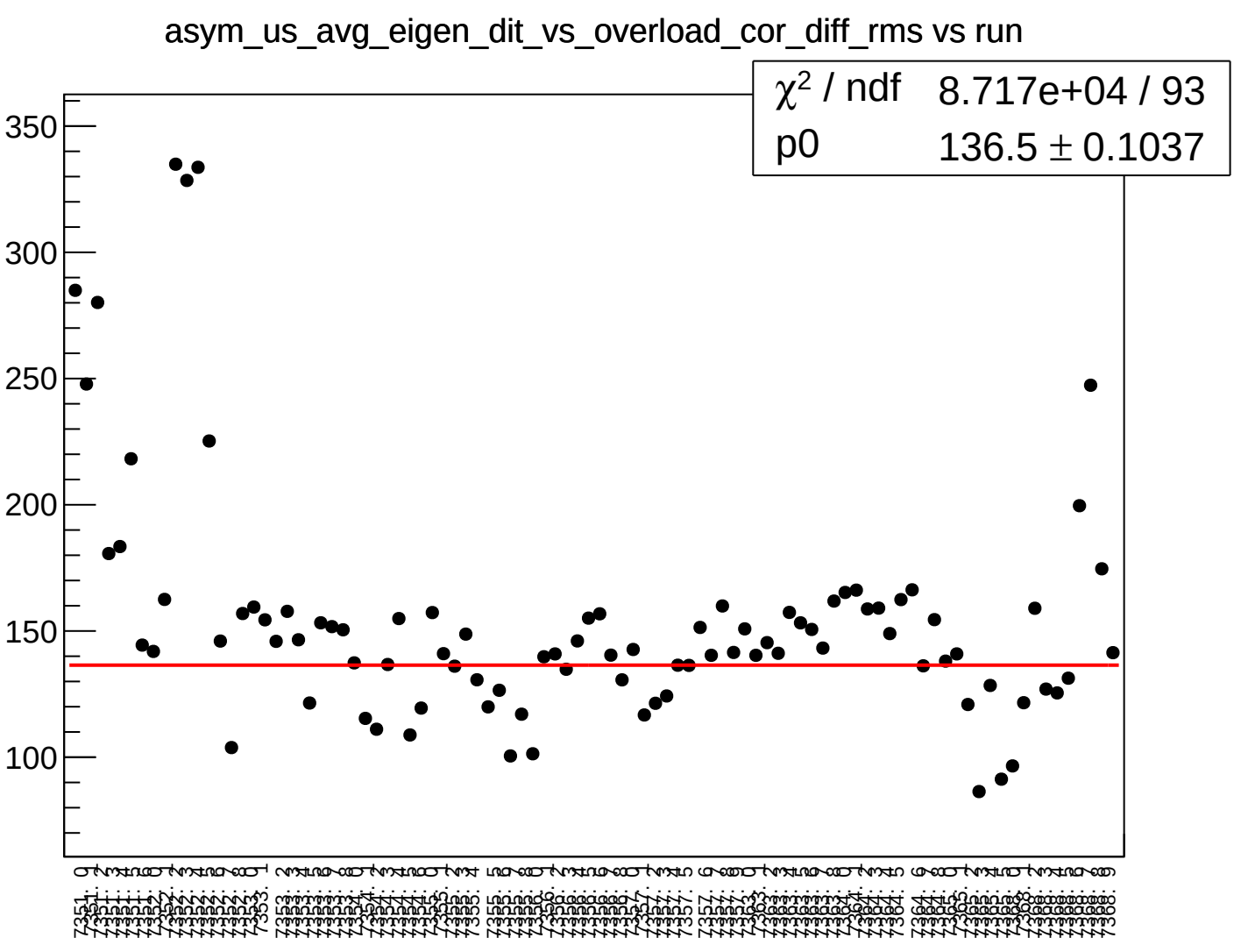

asym_us_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.8 / 93
p0 0.1172 ± 0.1264
pull
Entries 94
Mean −0.6566
Std Dev 22.35
pull1D
Entries 94
Mean −0.03428
Std Dev 0.9768

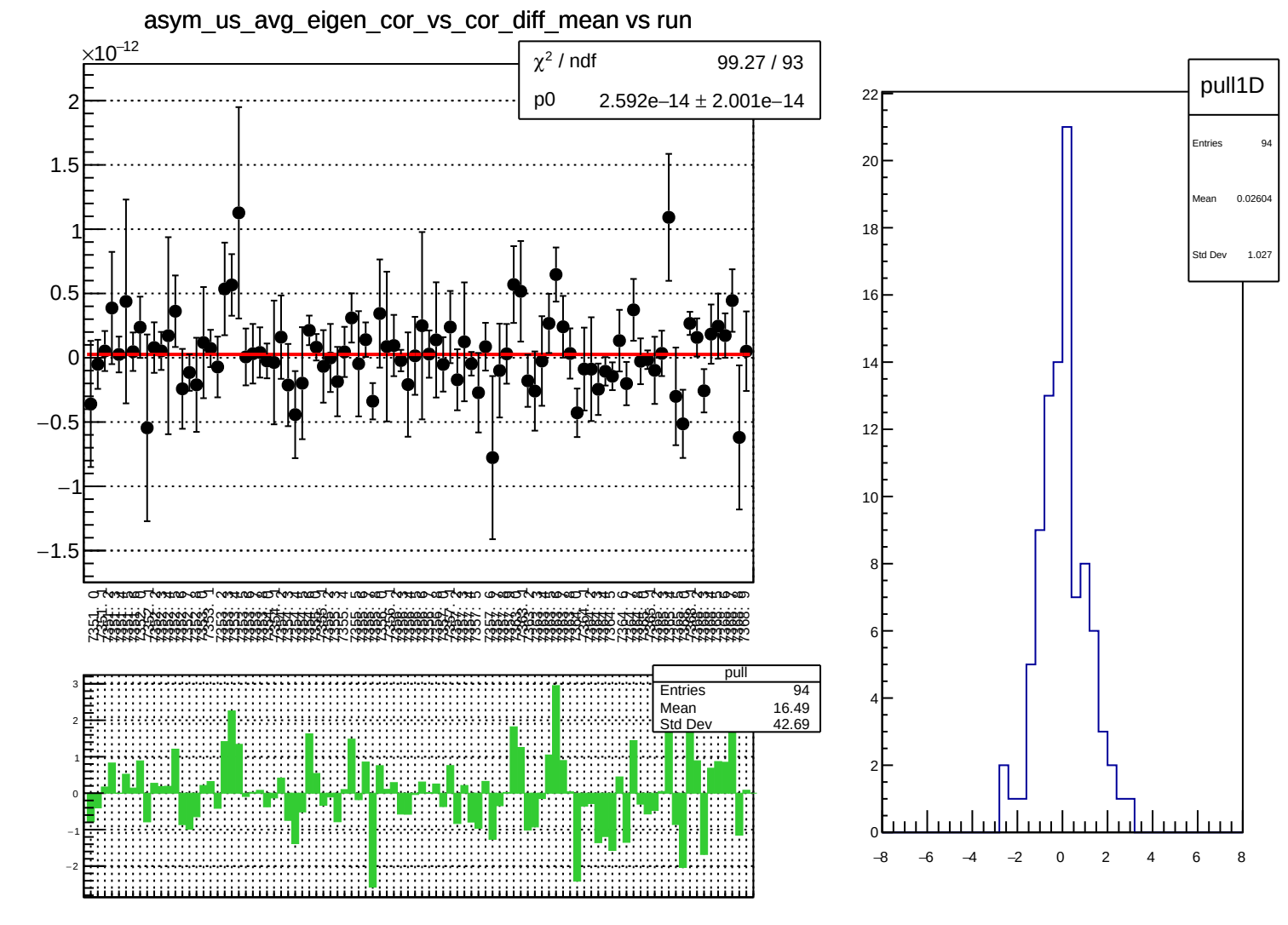

asym_us_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.262e+05 / 93
p0 116.3 ± 0.08938
350
300
250
200
150
100
50

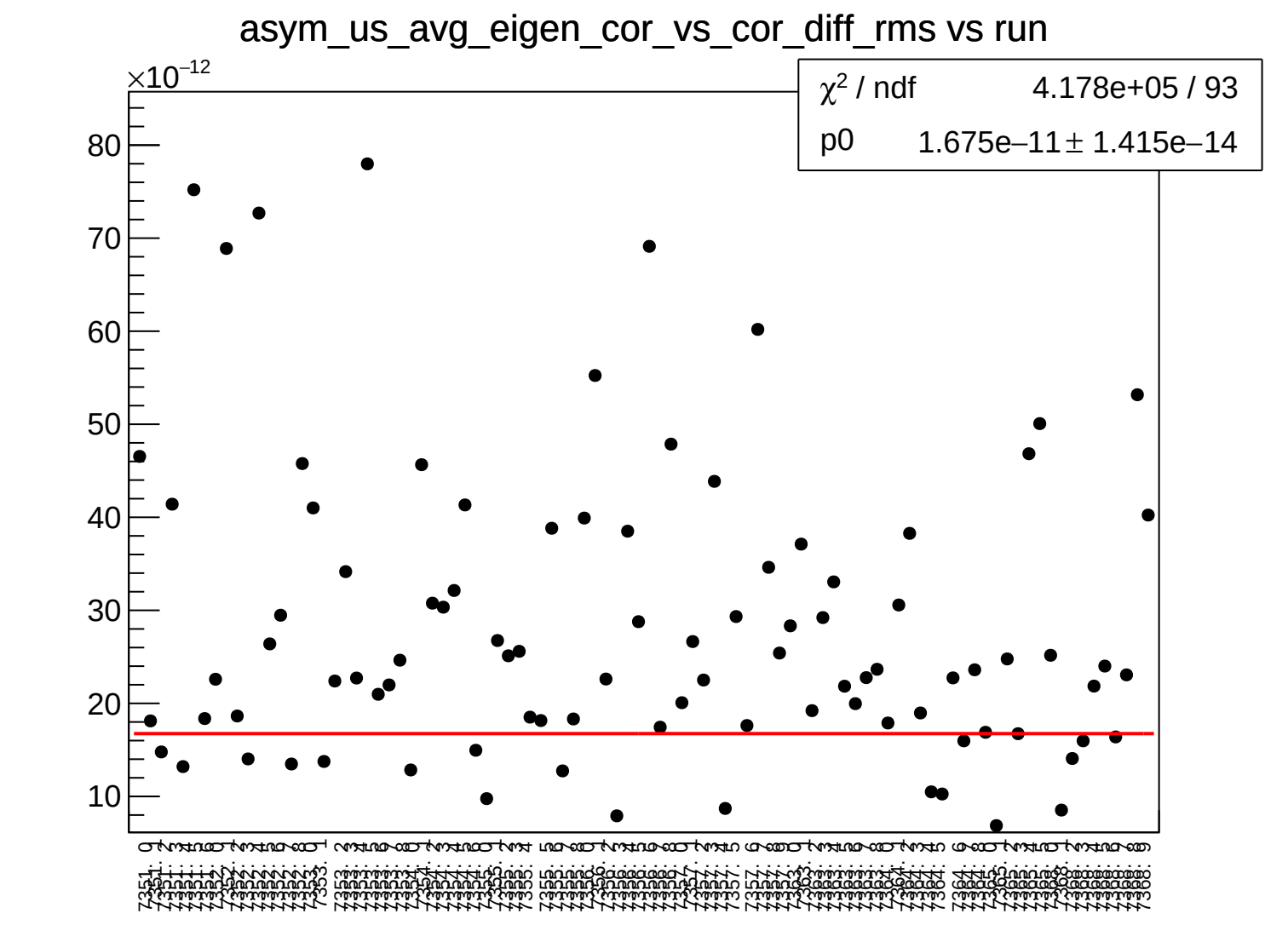

asym_us_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.8 / 93
p0 0.1172 ± 0.1264
pull
Entries 94
Mean −0.6566
Std Dev 22.35
pull1D
Entries 94
Mean −0.03428
Std Dev 0.9768

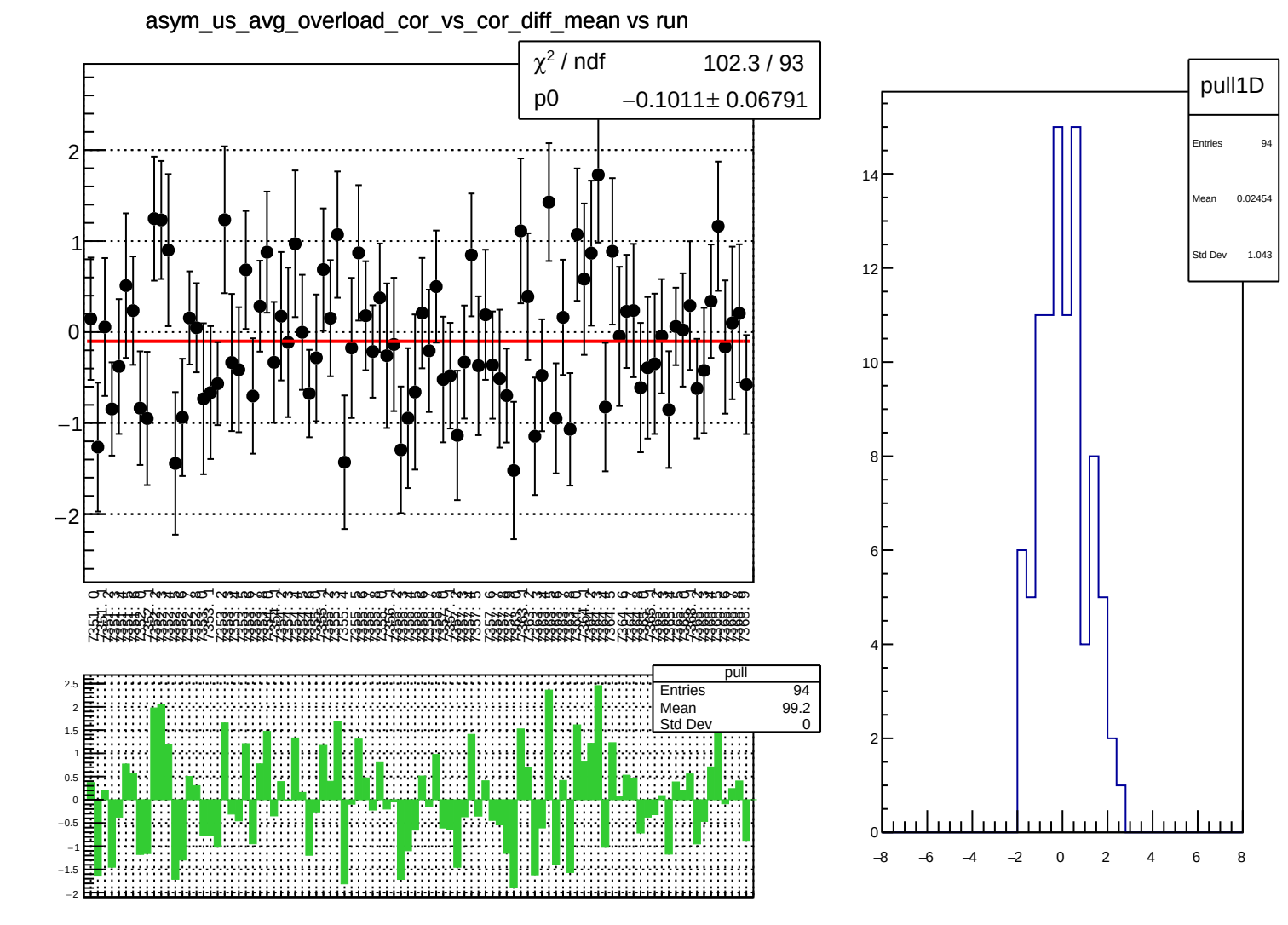

asym_us_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.262e+05 / 93
p0 116.3 ± 0.08938
350
300
250
200
150
100
50

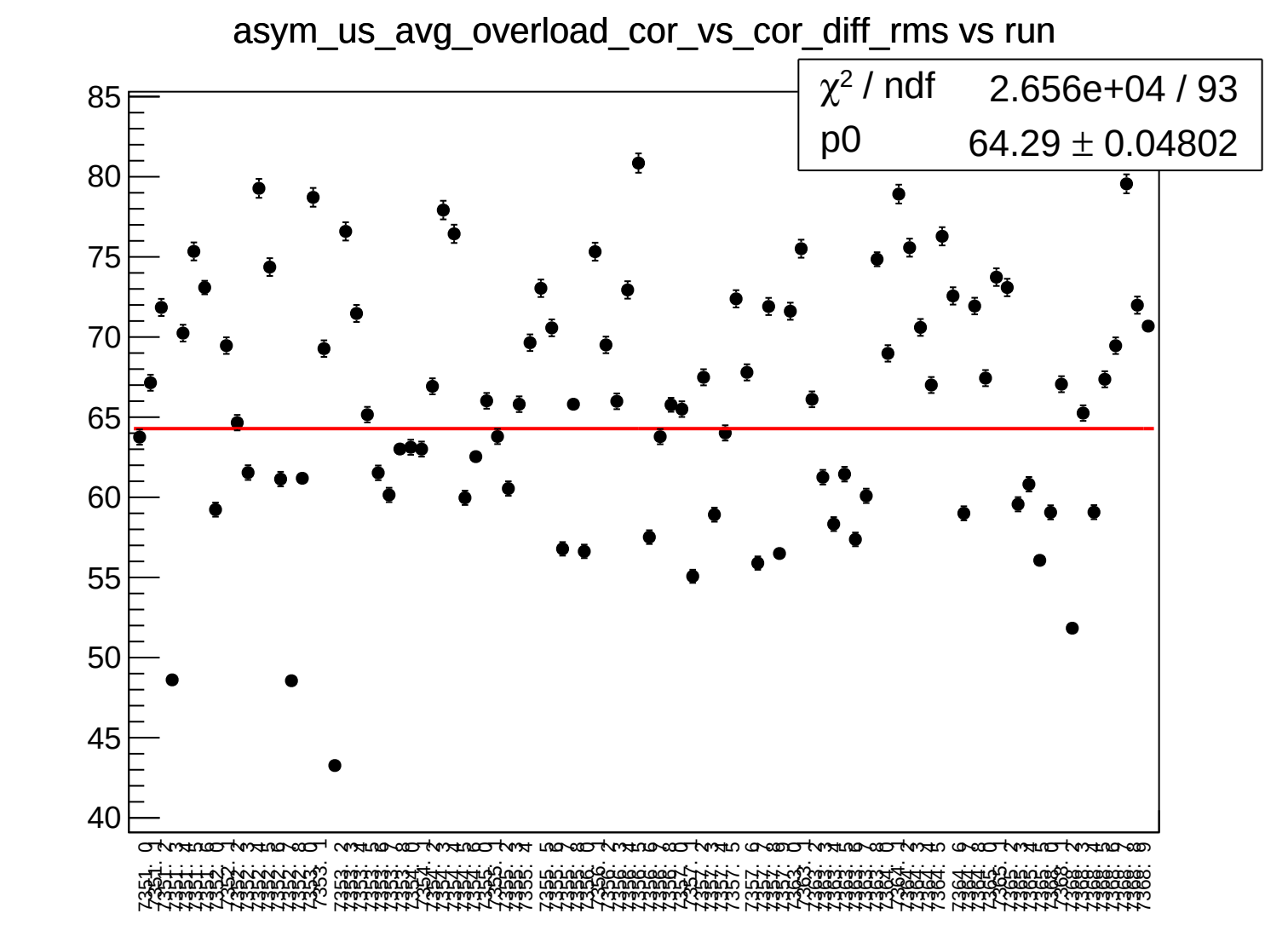

asym_us_avg_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 88.64 / 93
p0 0.2001 ± 0.1467
pull
Entries 94
Mean 25.79
Std Dev 48.44
pull1D
Entries 94
Mean −0.03303
Std Dev 0.9705

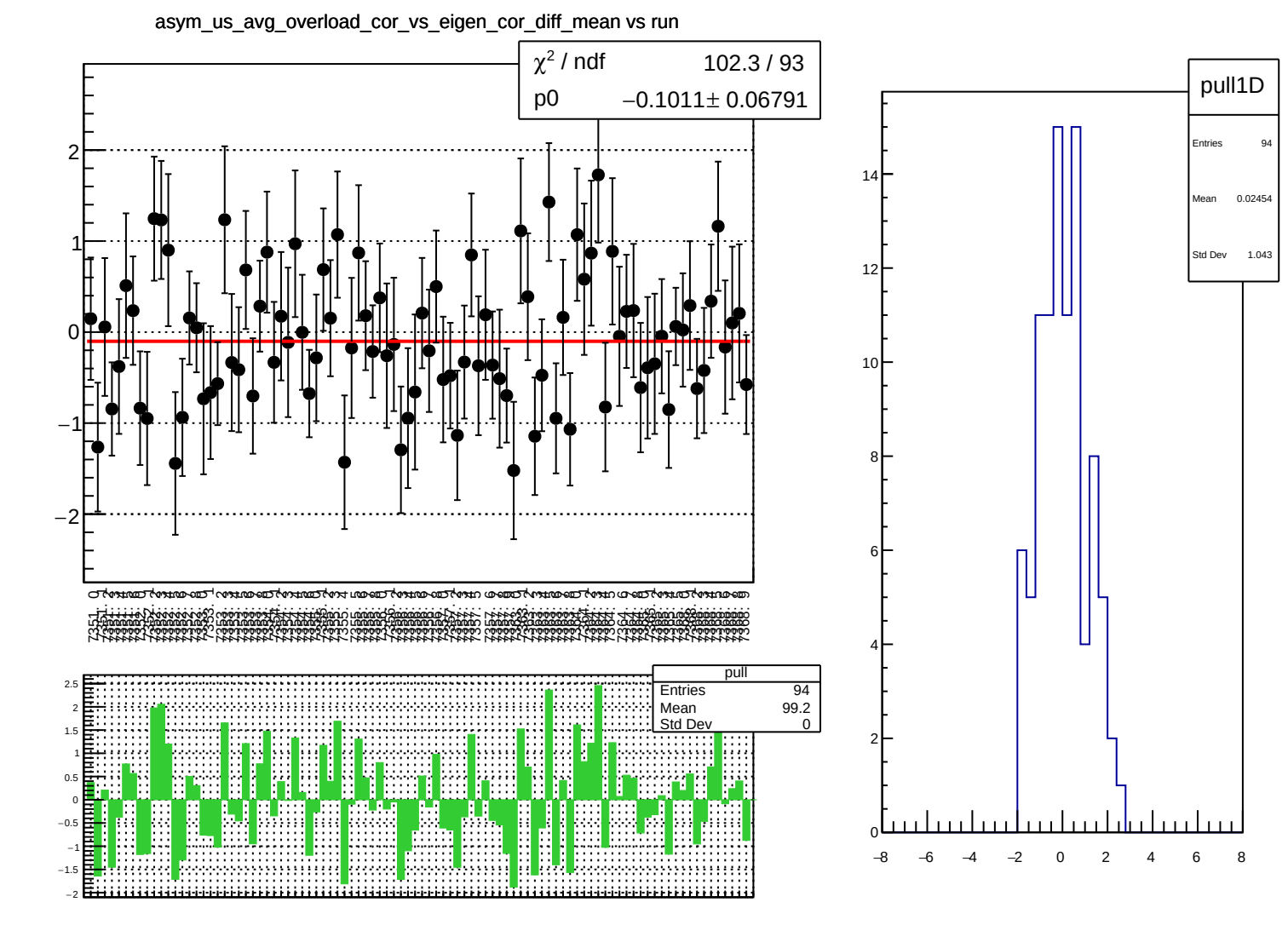

asym_us_avg_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 8.717e+04 / 93
p0 136.5 ± 0.1037
350
300
250
200
150
100

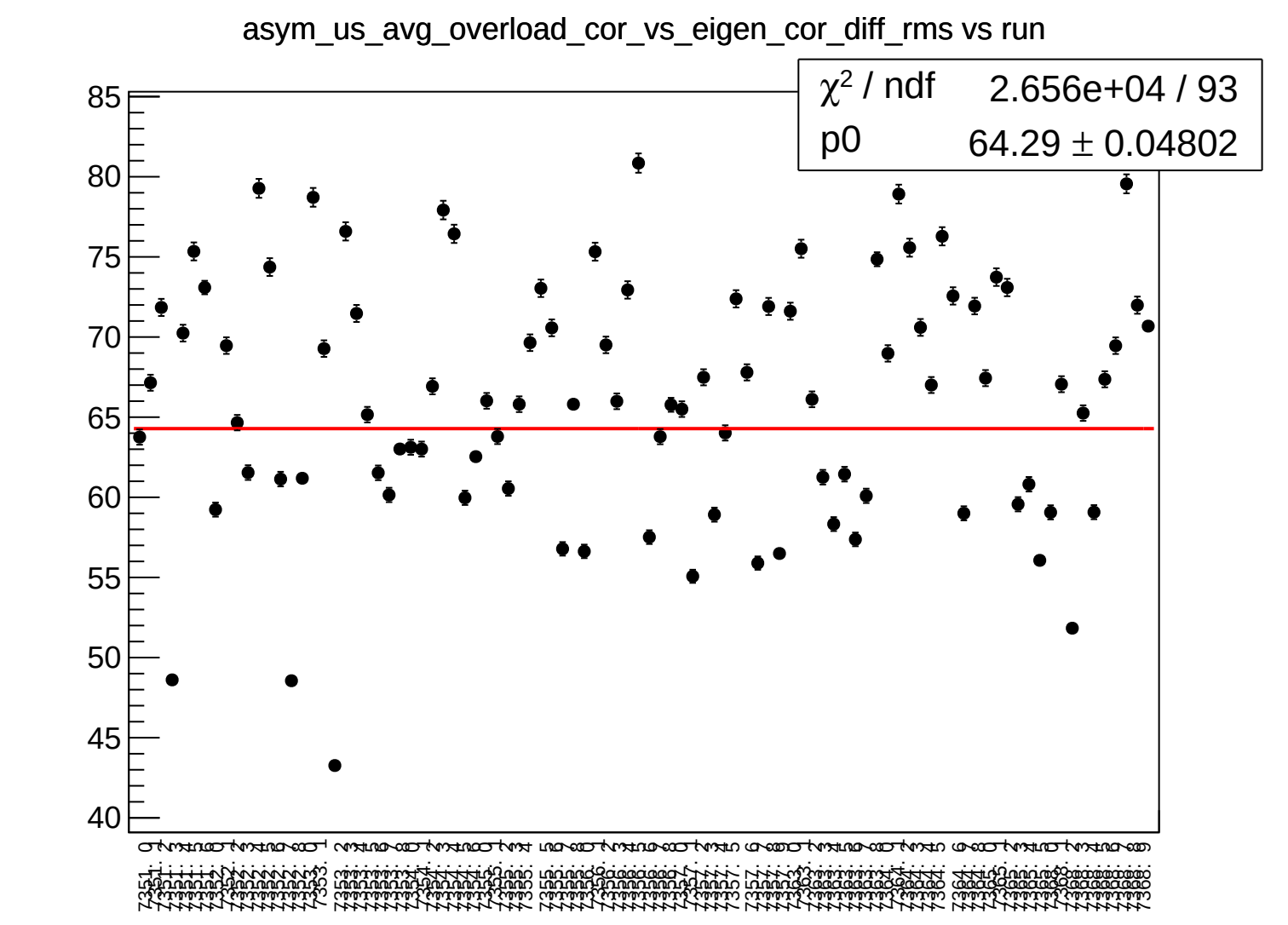

asym_us_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.27 / 93
p0 2.592e−14 ± 2.001e−14
pull
Entries 94
Mean 16.49
Std Dev 42.69
pull1D
Entries 94
Mean 0.02604
Std Dev 1.027

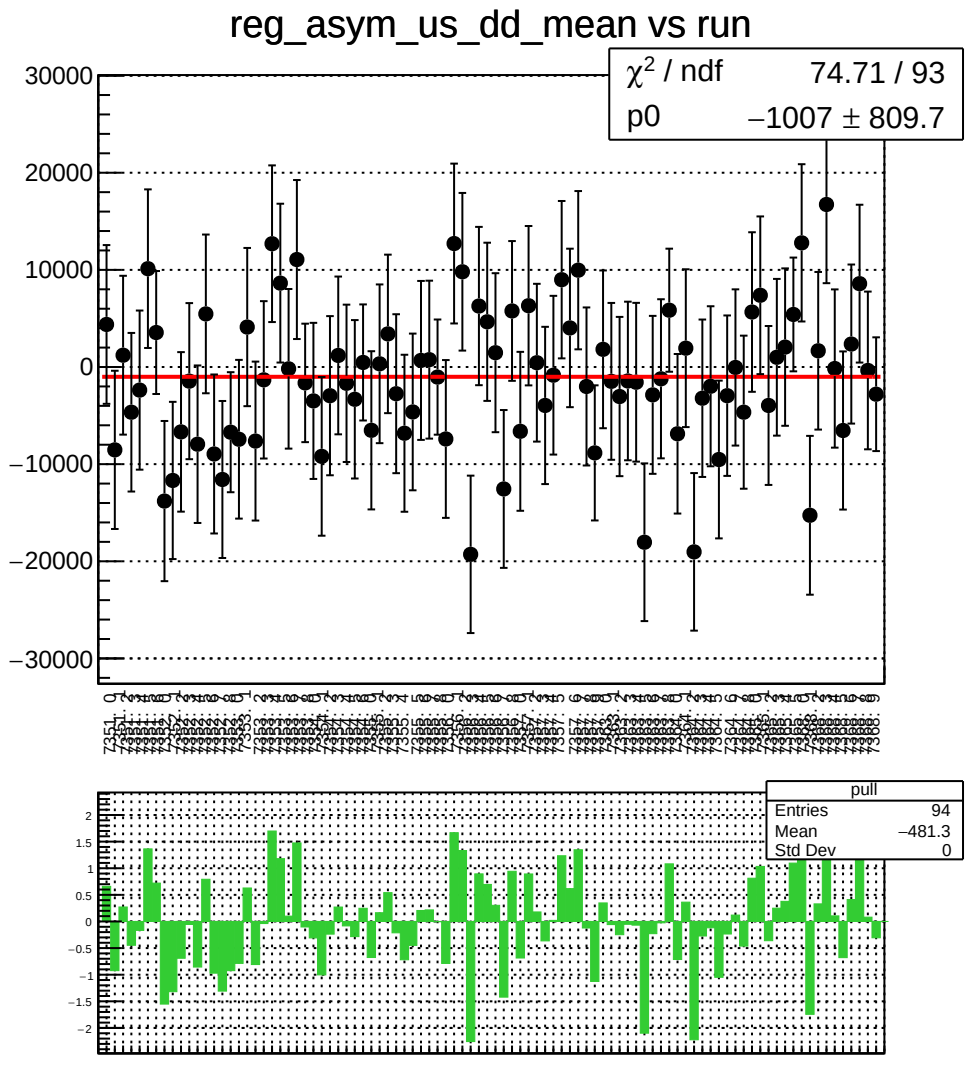

asym_us_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.178e+05 / 93
p0 1.675e−11 ± 1.415e−14
80
70
60
50
40
30
20
10

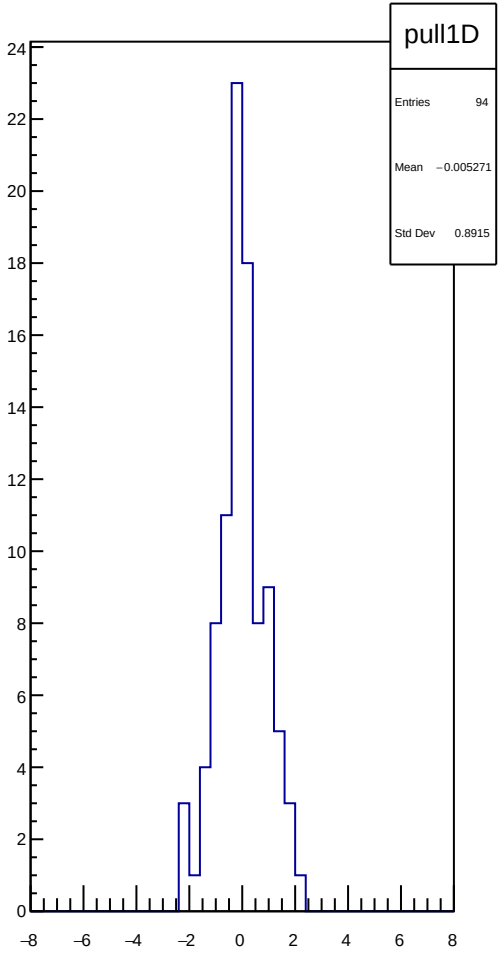

asym_us_avg_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 102.3 / 93
p0 −0.1011± 0.06791
pull
Entries 94
Mean 99.2
Std Dev 0
pull1D
Entries 94
Mean 0.02454
Std Dev 1.043

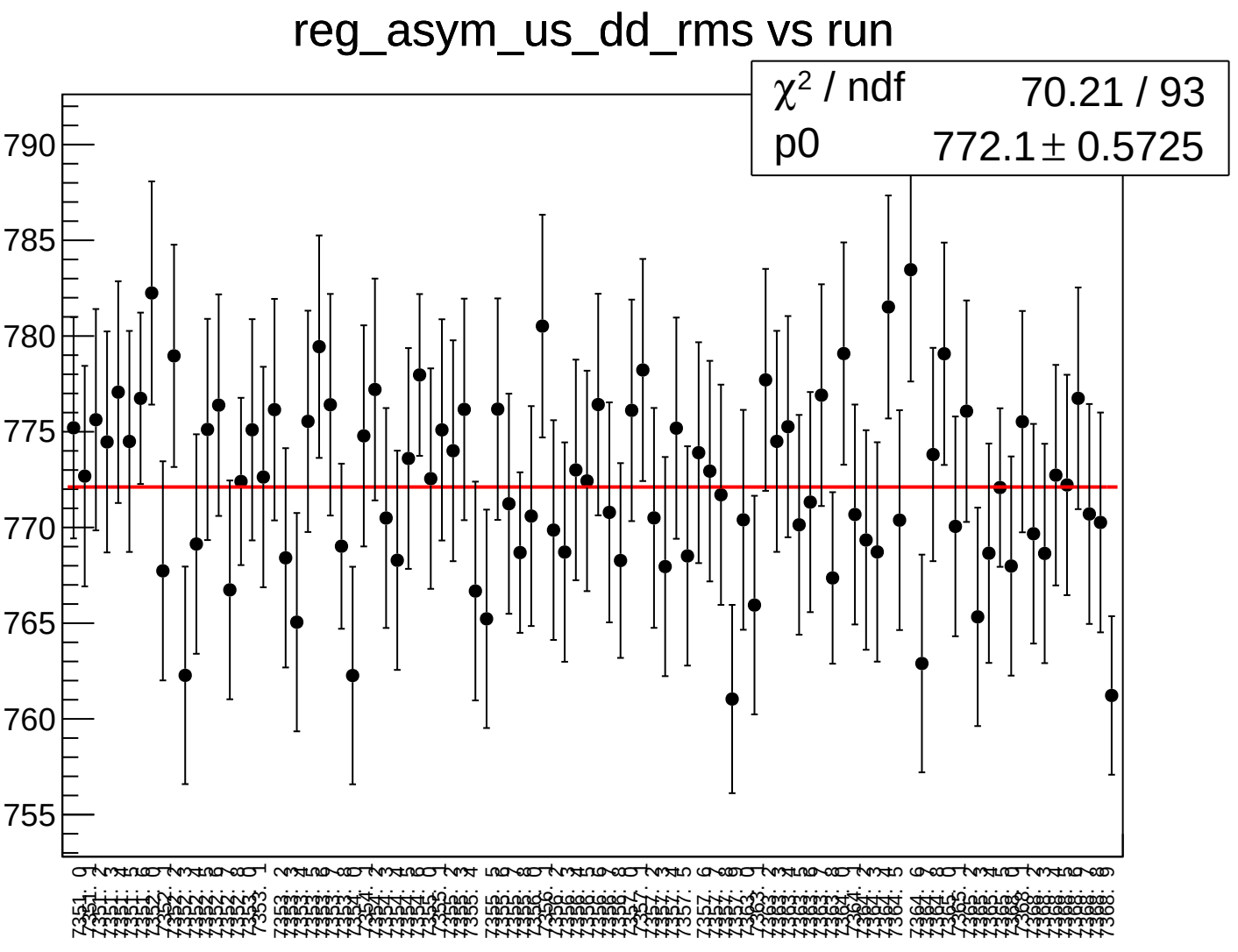

asym_us_avg_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 2.656e+04 / 93
p0 64.29 ± 0.04802
85
80
75
70
65
60
55
50
45
40

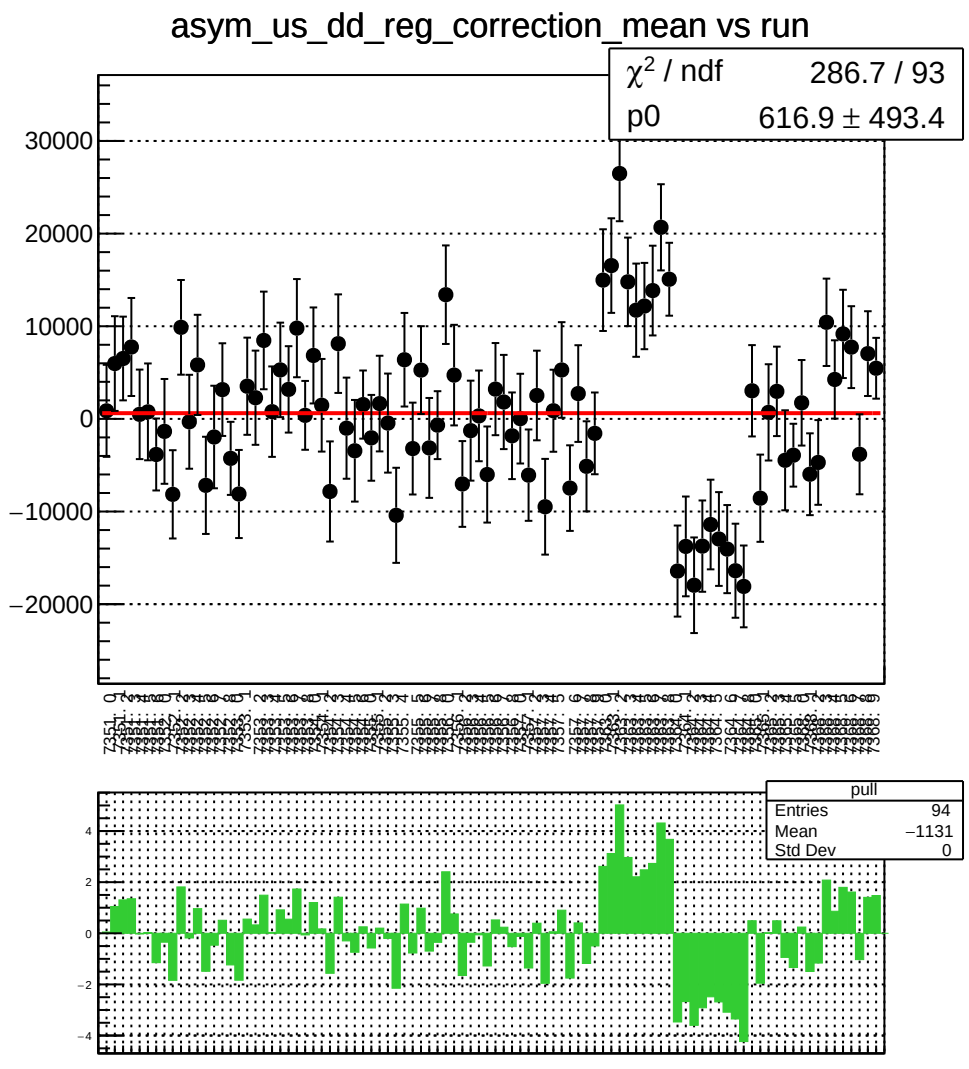

asym_us_avg_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.3 / 93
p0 −0.1011± 0.06791
pull
Entries 94
Mean 99.2
Std Dev 0
pull1D
Entries 94
Mean 0.02454
Std Dev 1.043

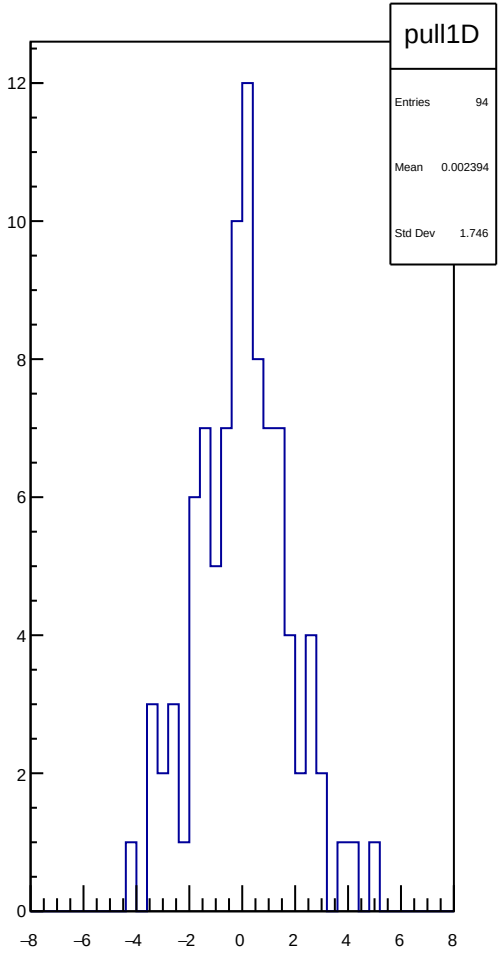

asym_us_avg_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.656e+04 / 93
p0 64.29 ± 0.04802
85
80
75
70
65
60
55
50
45
40

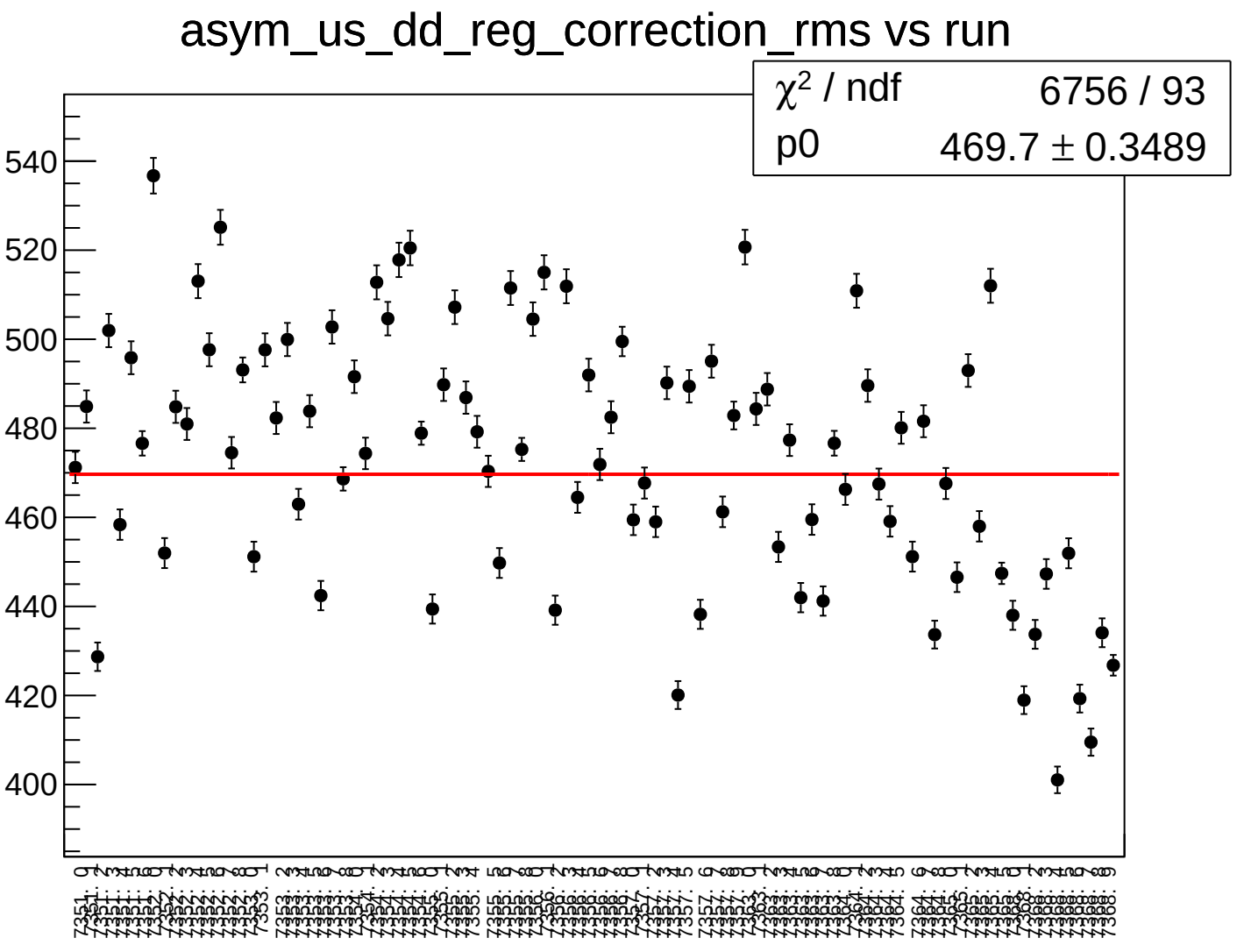

reg_asym_us_dd_mean vs run
χ² / ndf 74.71 / 93
p0 −1007 ± 809.7
pull
Entries 94
Mean −481.3
Std Dev 0

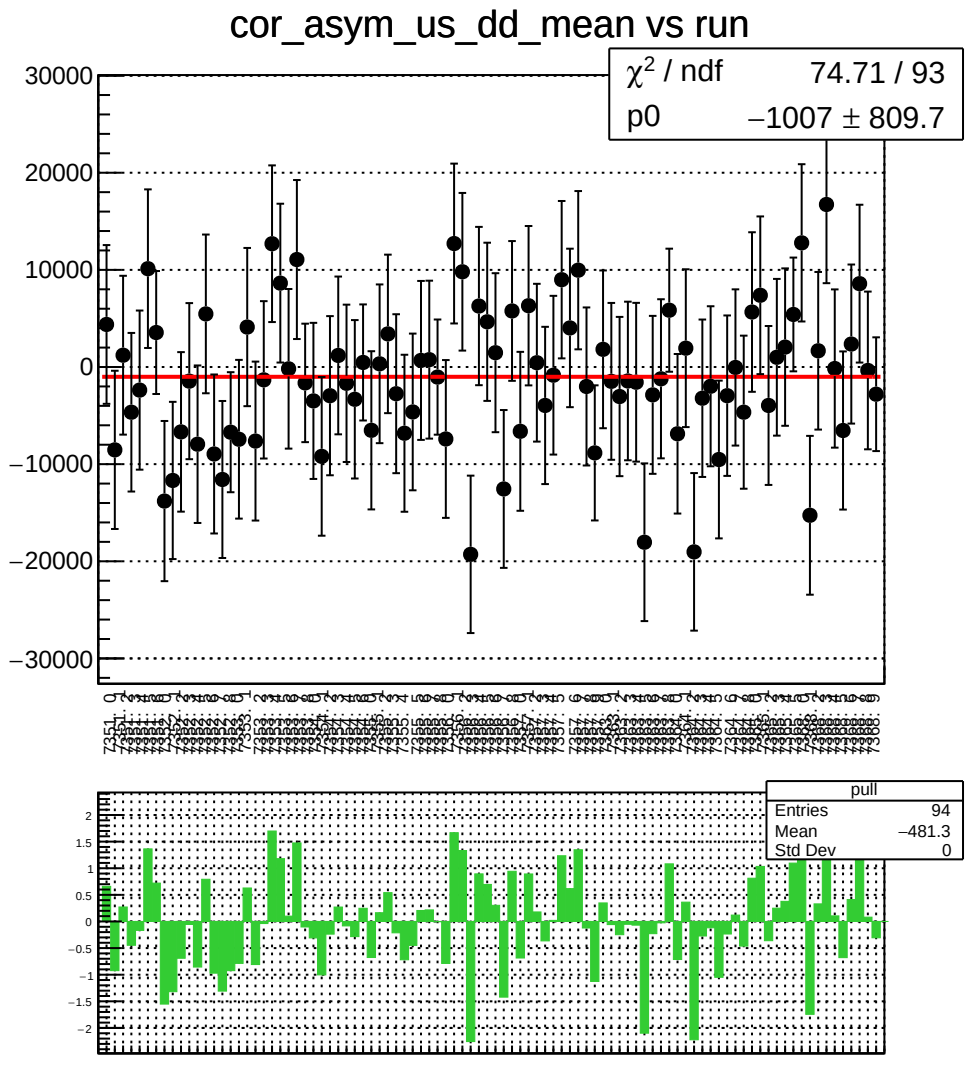

pull1D
Entries 94
Mean −0.005271
Std Dev 0.8915

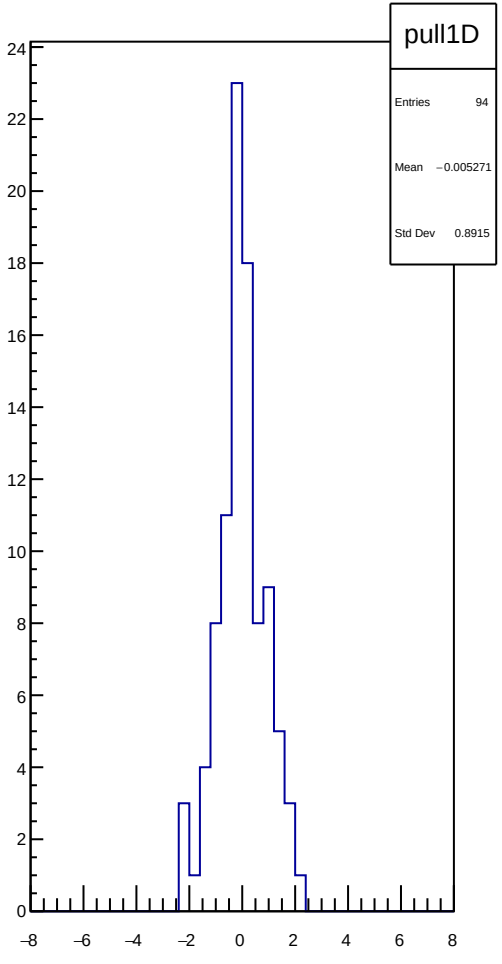

reg_asym_us_dd_rms vs run
χ² / ndf 70.21 / 93
p0 772.1 ± 0.5725
790
785
780
775
770
765
760
755

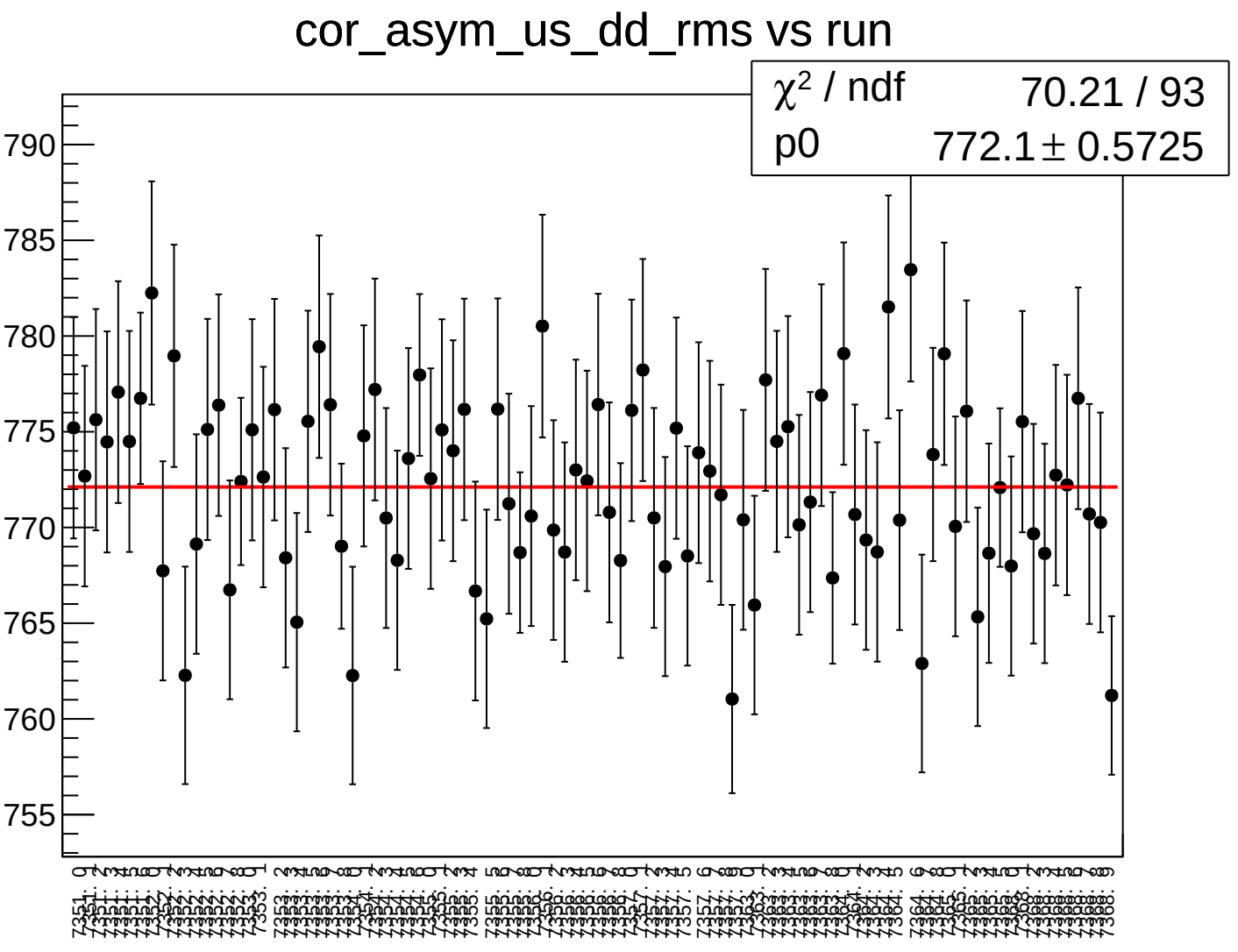

asym_us_dd_reg_correction_mean vs run
χ² / ndf 286.7 / 93
p0 616.9 ± 493.4
30000
20000
10000
0
−10000
−20000
pull
Entries 94
Mean −1131
Std Dev 0
4
2
0
−2
−4

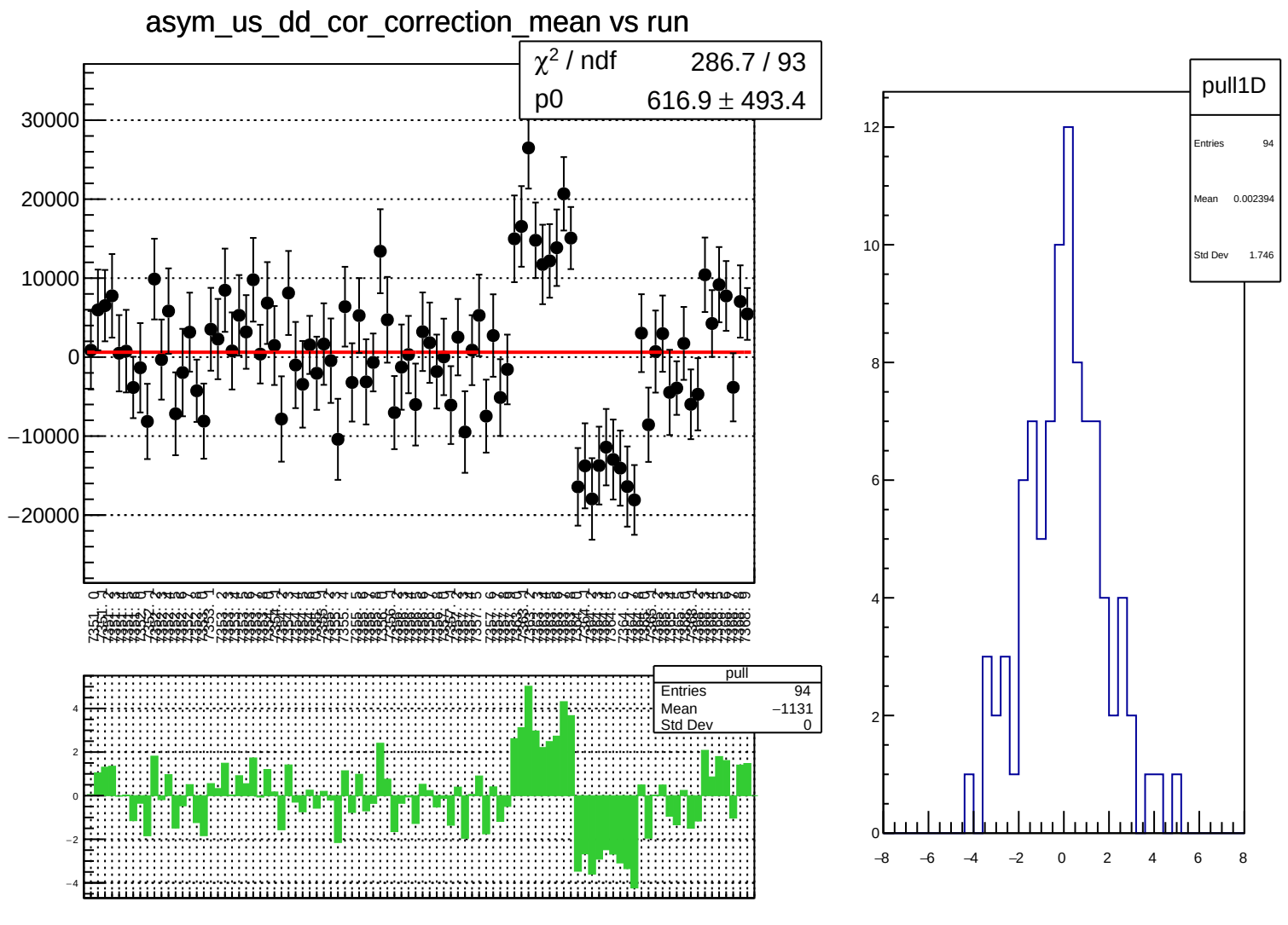

pull1D
Entries 94
Mean 0.002394
Std Dev 1.746
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

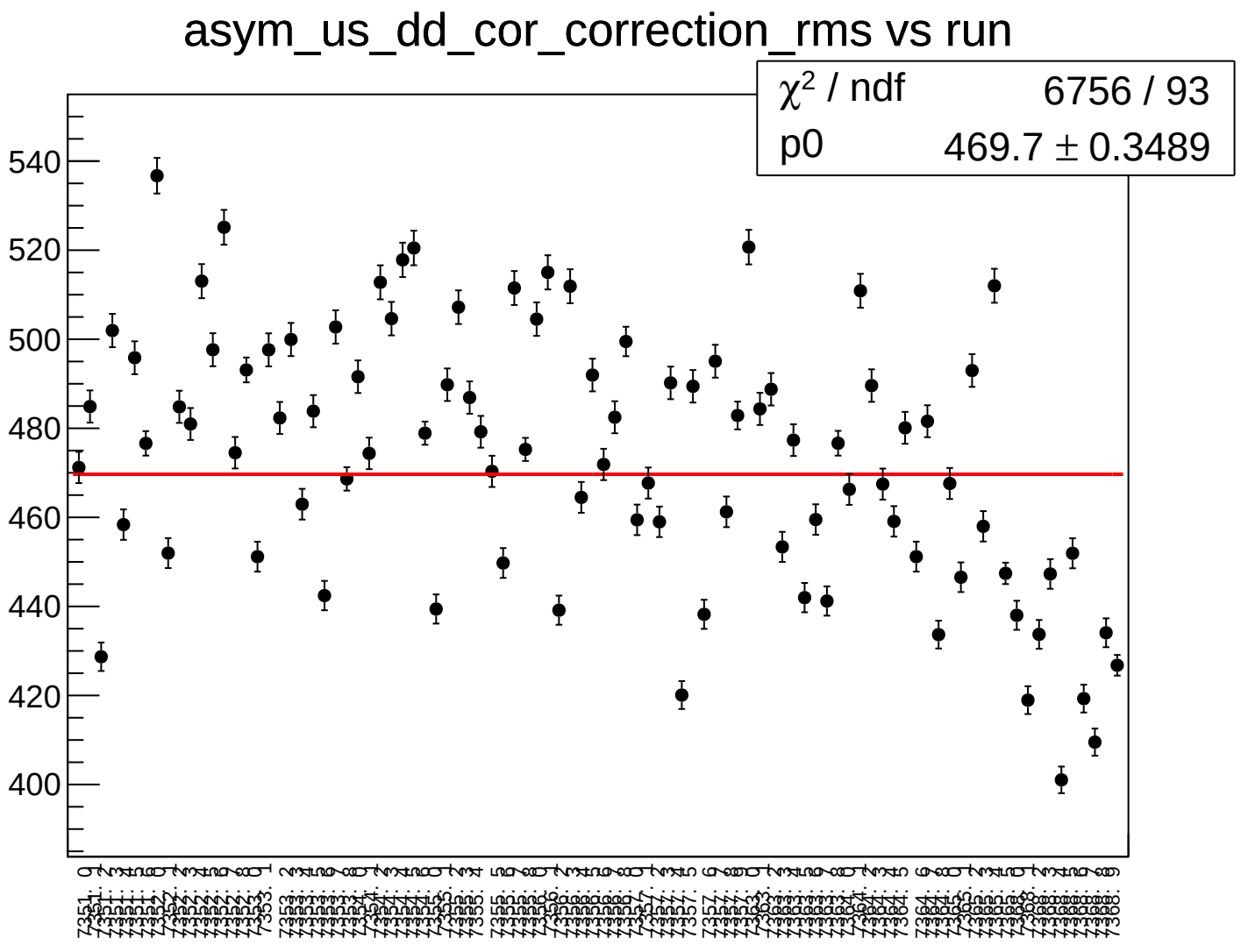

asym_us_dd_reg_correction_rms vs run
χ² / ndf 6756 / 93
p0 469.7 ± 0.3489
540
520
500
480
460
440
420
400

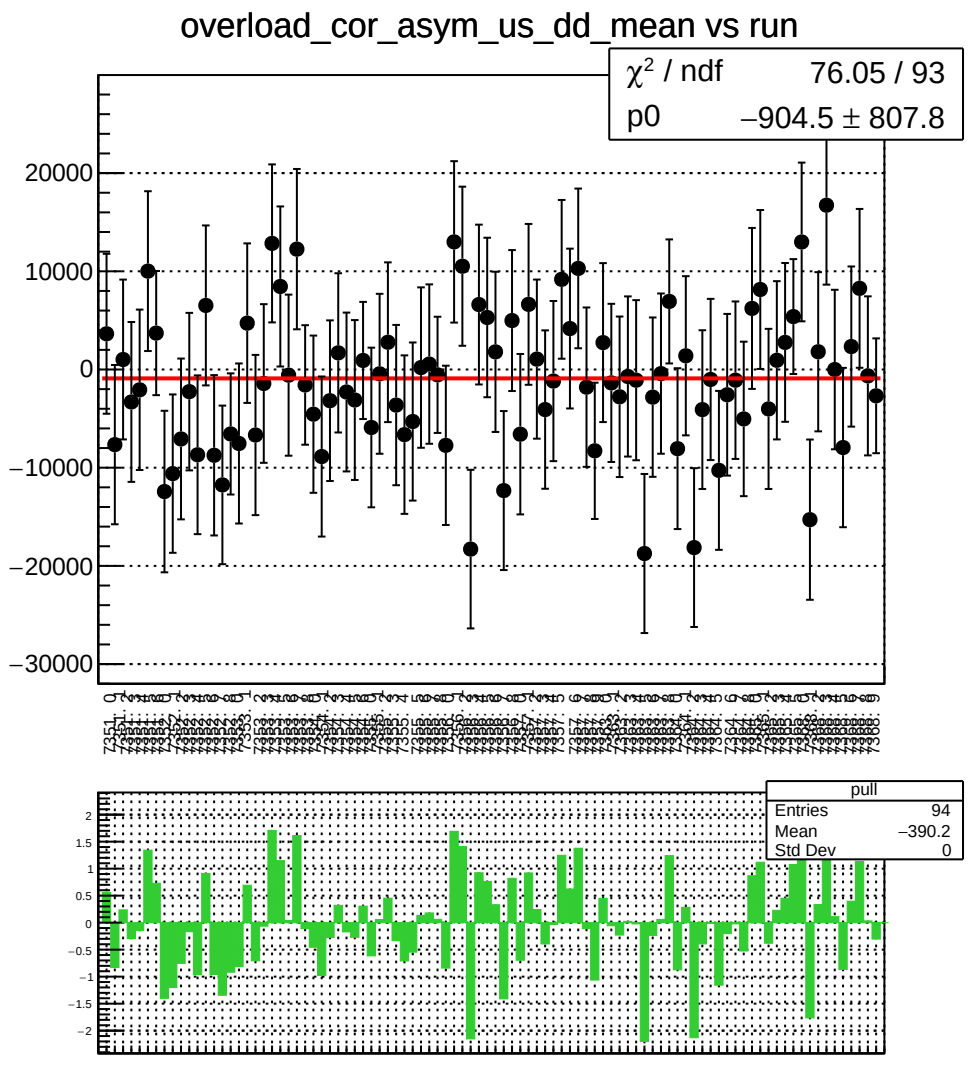

cor_asym_us_dd_mean vs run
χ² / ndf 74.71 / 93
p0 −1007 ± 809.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −481.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

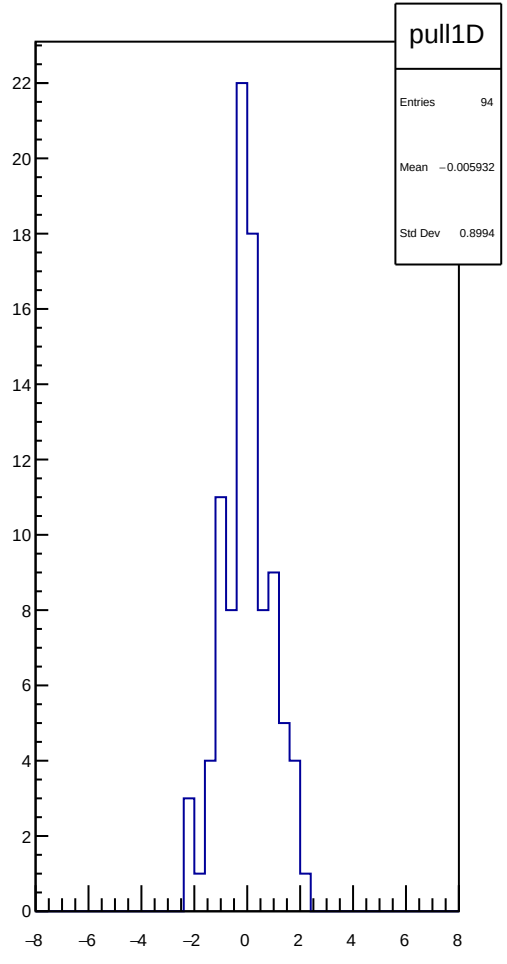

pull1D
Entries 94
Mean −0.005271
Std Dev 0.8915
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

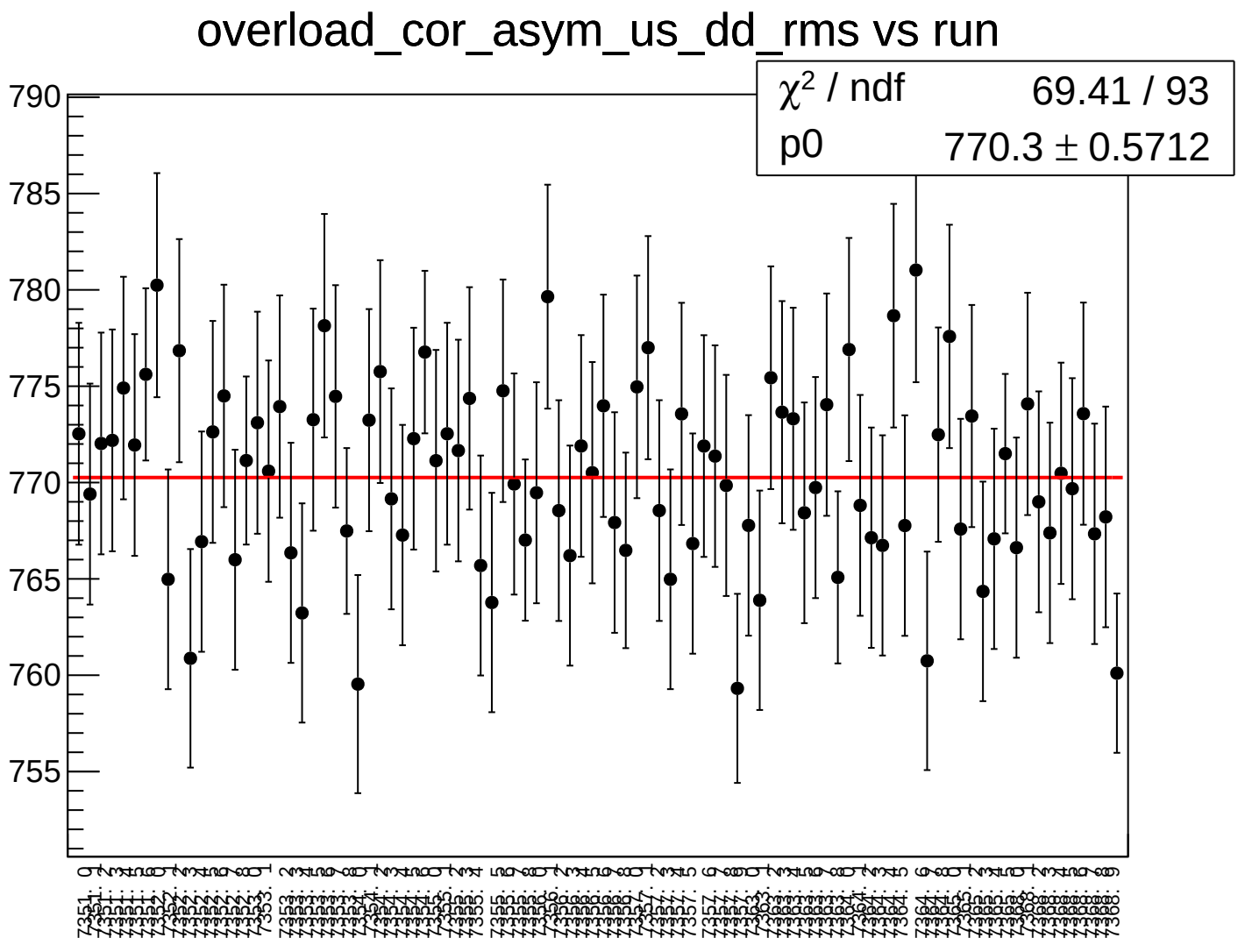

cor_asym_us_dd_rms vs run
χ^2 / ndf 70.21 / 93
p0 772.1 ± 0.5725
790
785
780
775
770
765
760
755

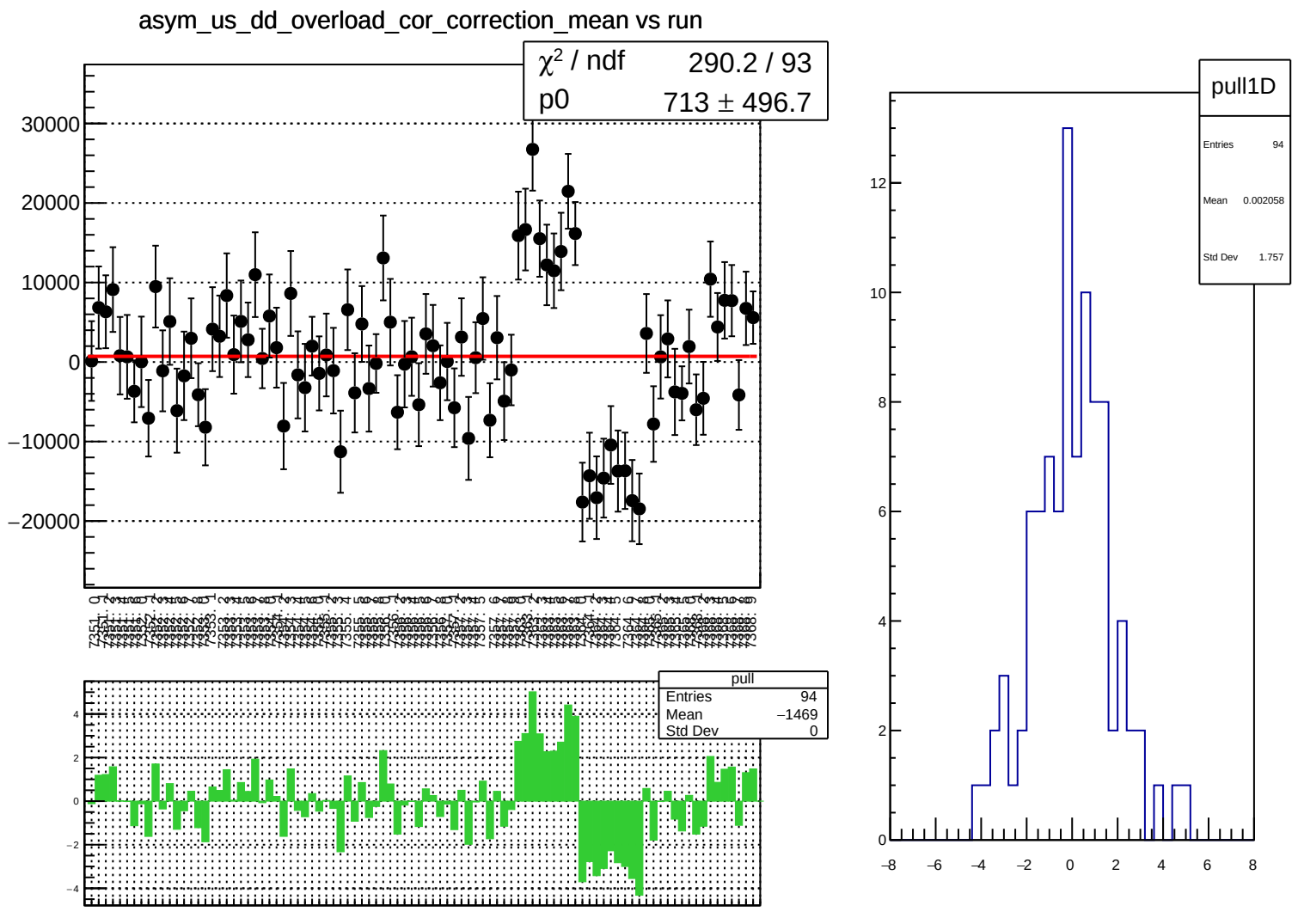

asym_us_dd_cor_correction_mean vs run
χ² / ndf 286.7 / 93
p0 616.9 ± 493.4
30000
20000
10000
0
−10000
−20000
pull
Entries 94
Mean −1131
Std Dev 0
4
2
0
−2
−4
pull1D
Entries 94
Mean 0.002394
Std Dev 1.746
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

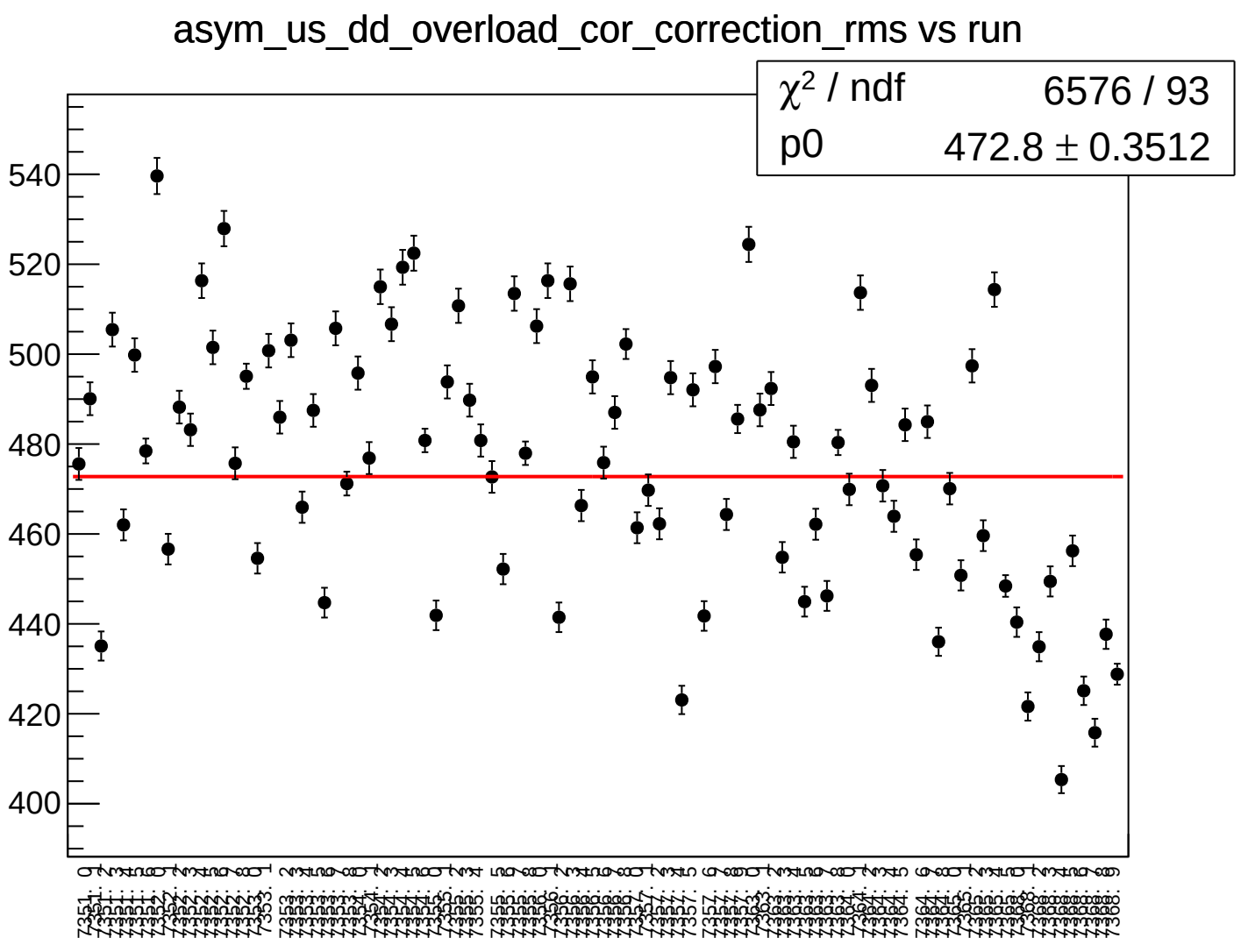

asym_us_dd_cor_correction_rms vs run
χ² / ndf 6756 / 93
p0 469.7 ± 0.3489
540
520
500
480
460
440
420
400

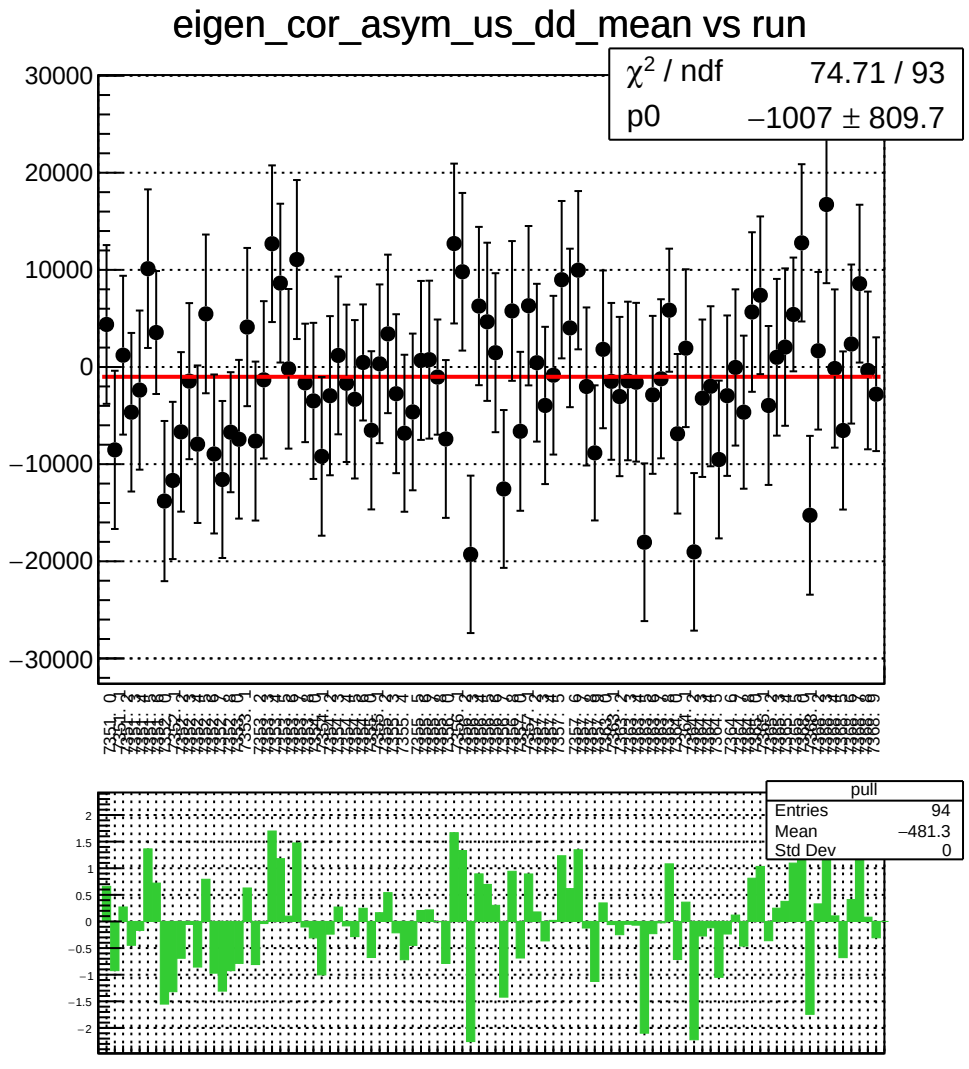

overload_cor_asym_us_dd_mean vs run
χ² / ndf 76.05 / 93
p0 −904.5 ± 807.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −390.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

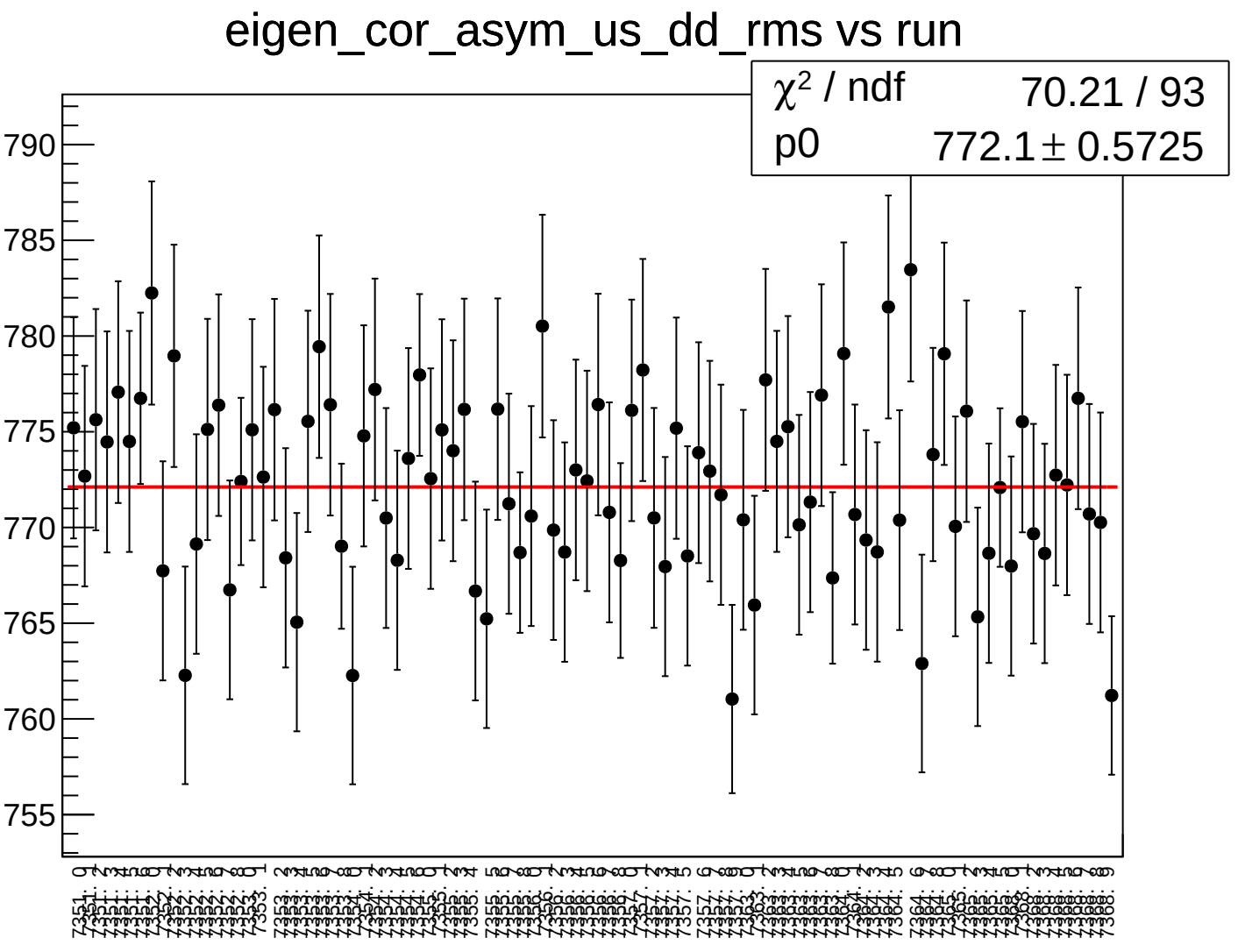

pull1D
Entries 94
Mean −0.005932
Std Dev 0.8994
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

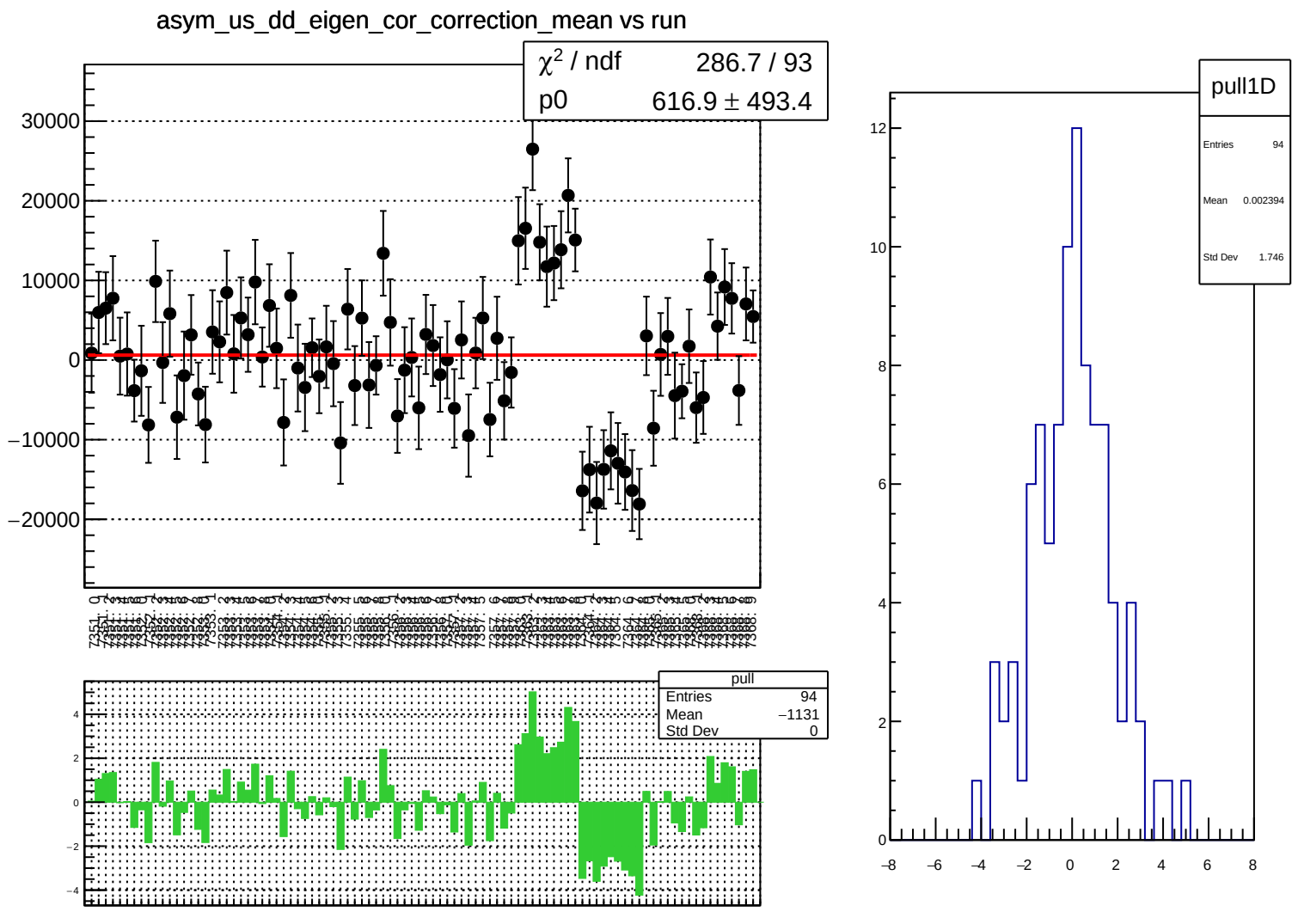

overload_cor_asym_us_dd_rms vs run
χ^2 / ndf 69.41 / 93
p0 770.3 ± 0.5712
790
785
780
775
770
765
760
755

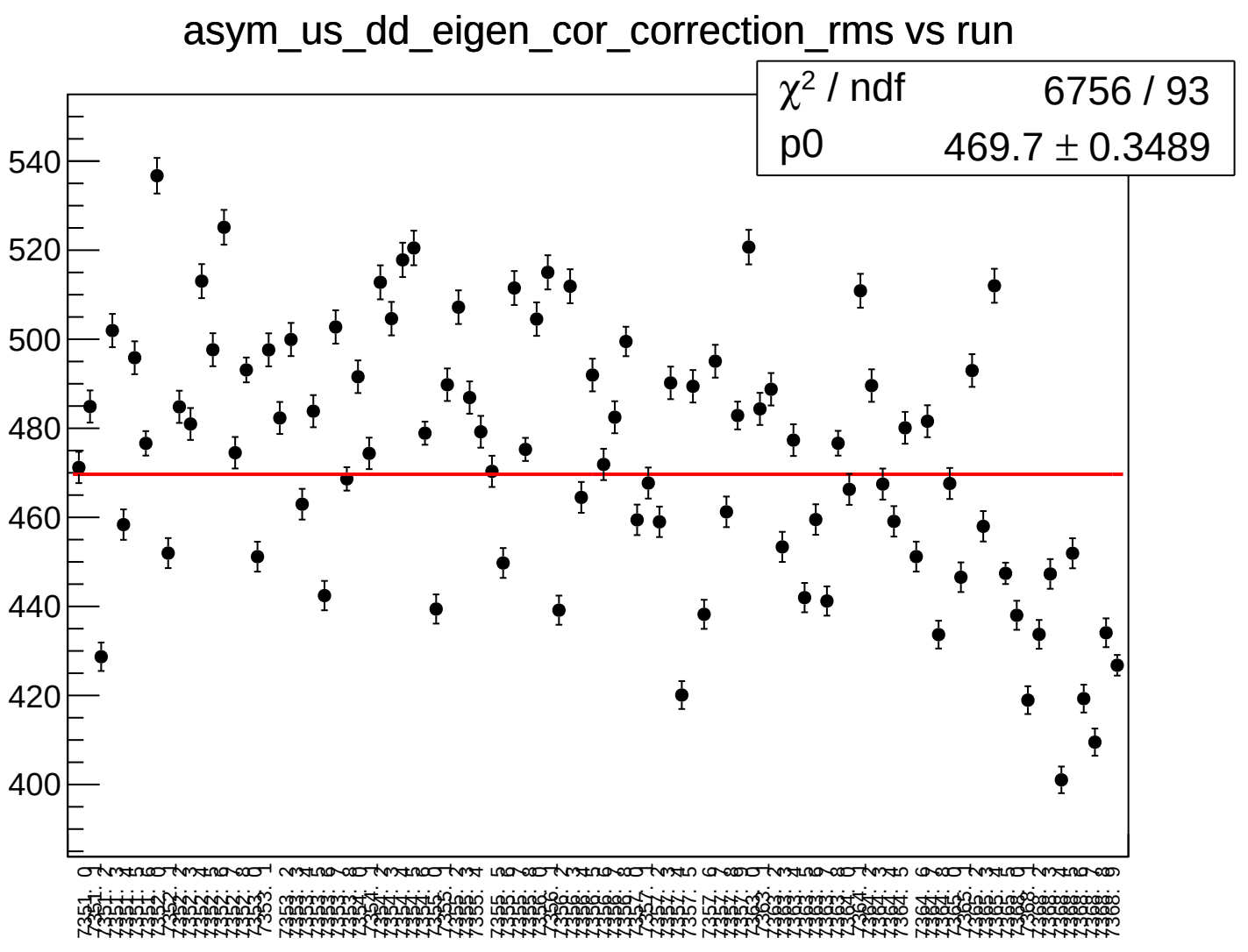

asym_us_dd_overload_cor_correction_mean vs run
χ² / ndf 290.2 / 93
p0 713 ± 496.7
30000
20000
10000
0
−10000
−20000
pull
Entries 94
Mean −1469
Std Dev 0
4
2
0
−2
−4
pull1D
Entries 94
Mean 0.002058
Std Dev 1.757
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

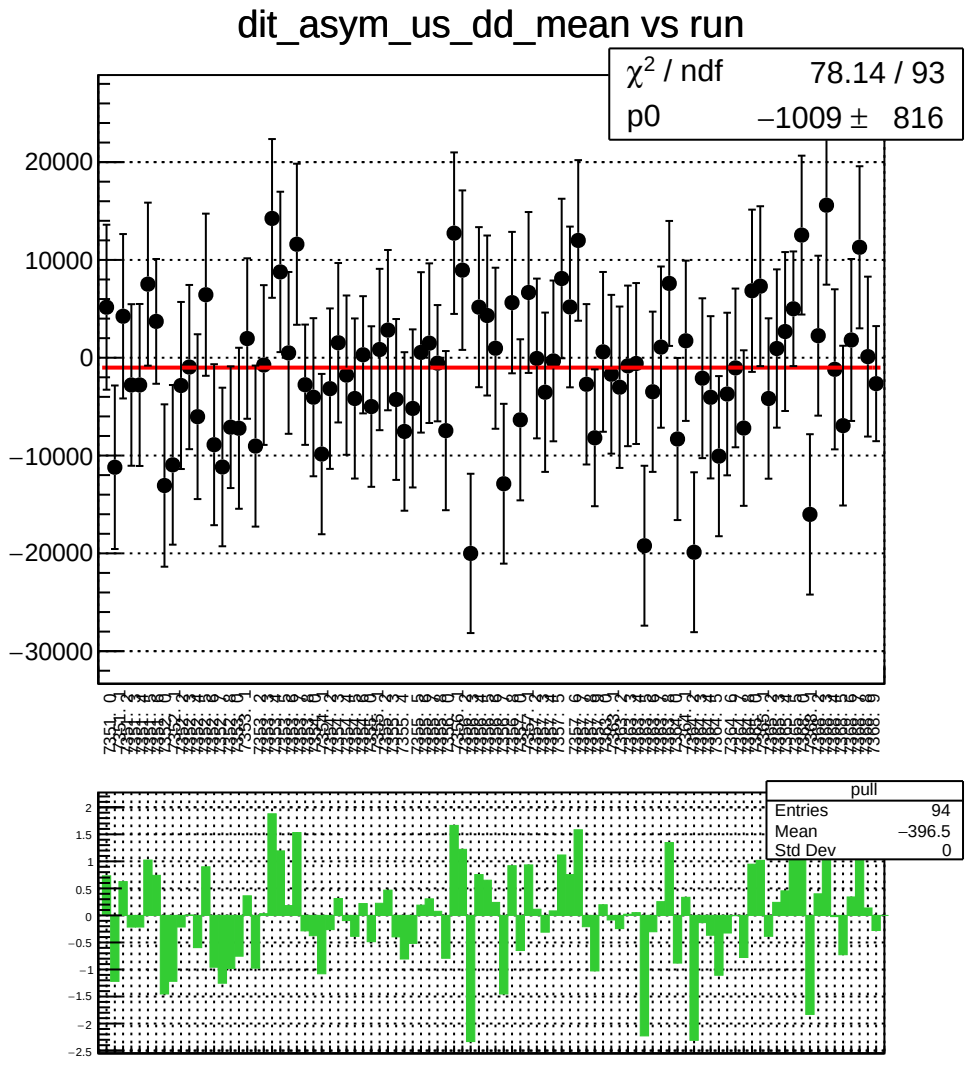

asym_us_dd_overload_cor_correction_rms vs run
χ² / ndf 6576 / 93
p0 472.8 ± 0.3512
540
520
500
480
460
440
420
400

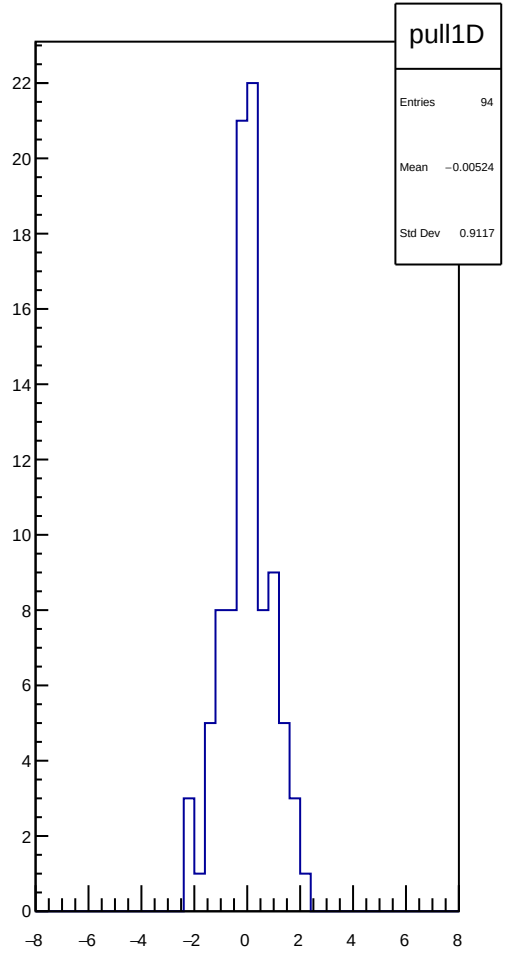

eigen_cor_asym_us_dd_mean vs run
χ² / ndf 74.71 / 93
p0 −1007 ± 809.7
pull
Entries 94
Mean −481.3
Std Dev 0
pull1D
Entries 94
Mean −0.005271
Std Dev 0.8915

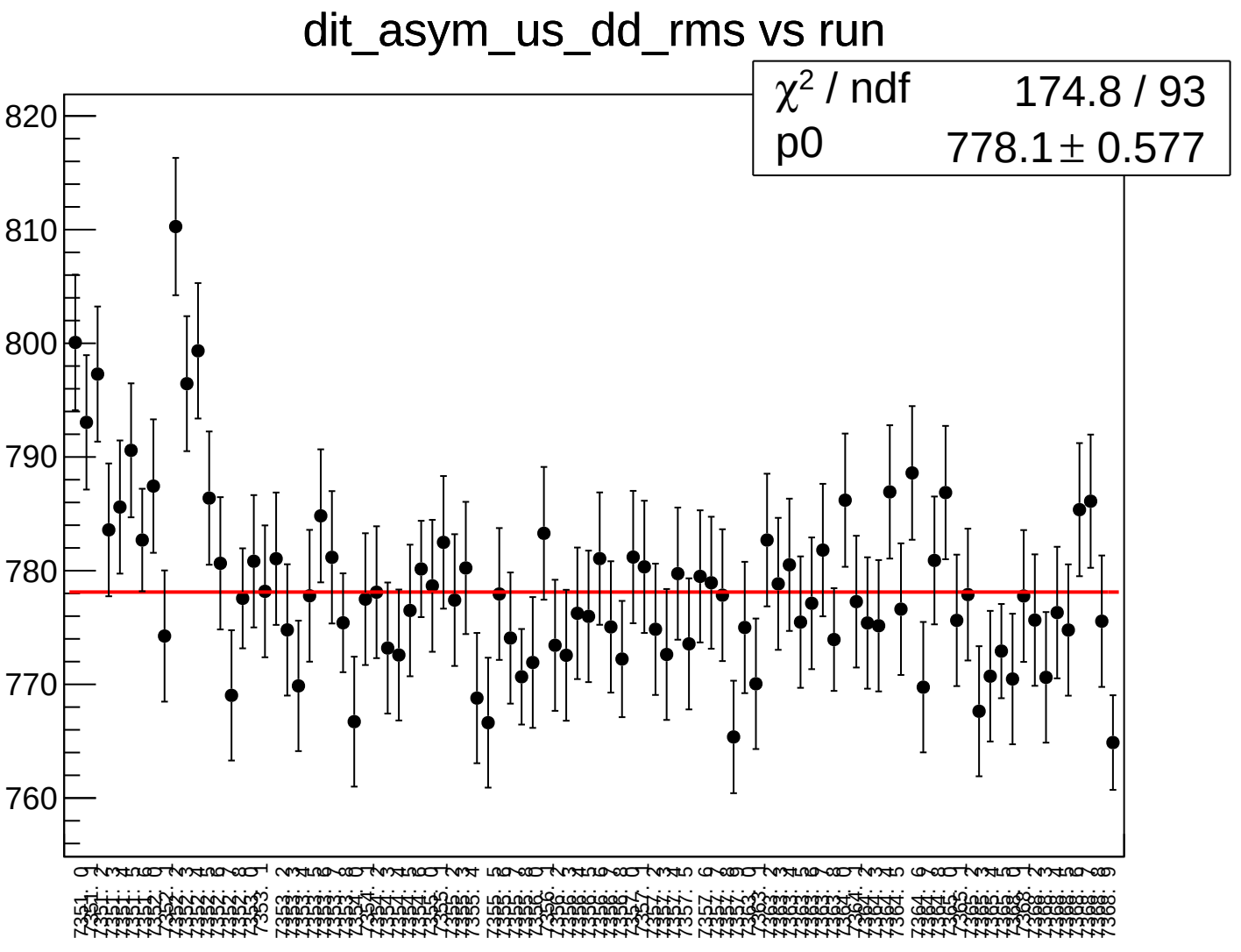

eigen_cor_asym_us_dd_rms vs run
χ² / ndf 70.21 / 93
p0 772.1 ± 0.5725
790
785
780
775
770
765
760
755

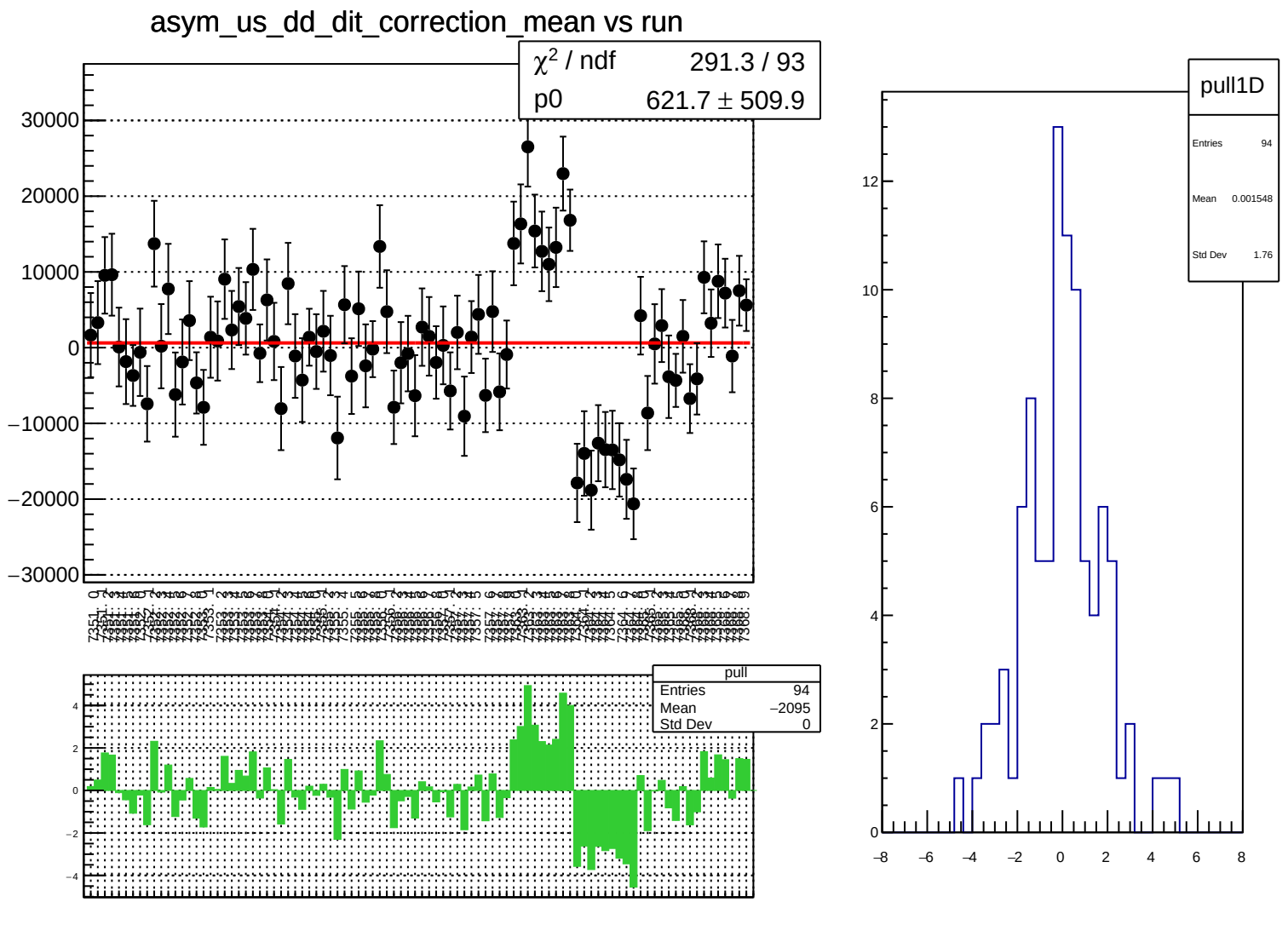

asym_us_dd_eigen_cor_correction_mean vs run
χ² / ndf 286.7 / 93
p0 616.9 ± 493.4
30000
20000
10000
0
−10000
−20000
pull
Entries 94
Mean −1131
Std Dev 0
4
2
0
−2
−4
pull1D
Entries 94
Mean 0.002394
Std Dev 1.746
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_eigen_cor_correction_rms vs run
χ^2 / ndf 6756 / 93
p0 469.7 ± 0.3489
540
520
500
480
460
440
420
400

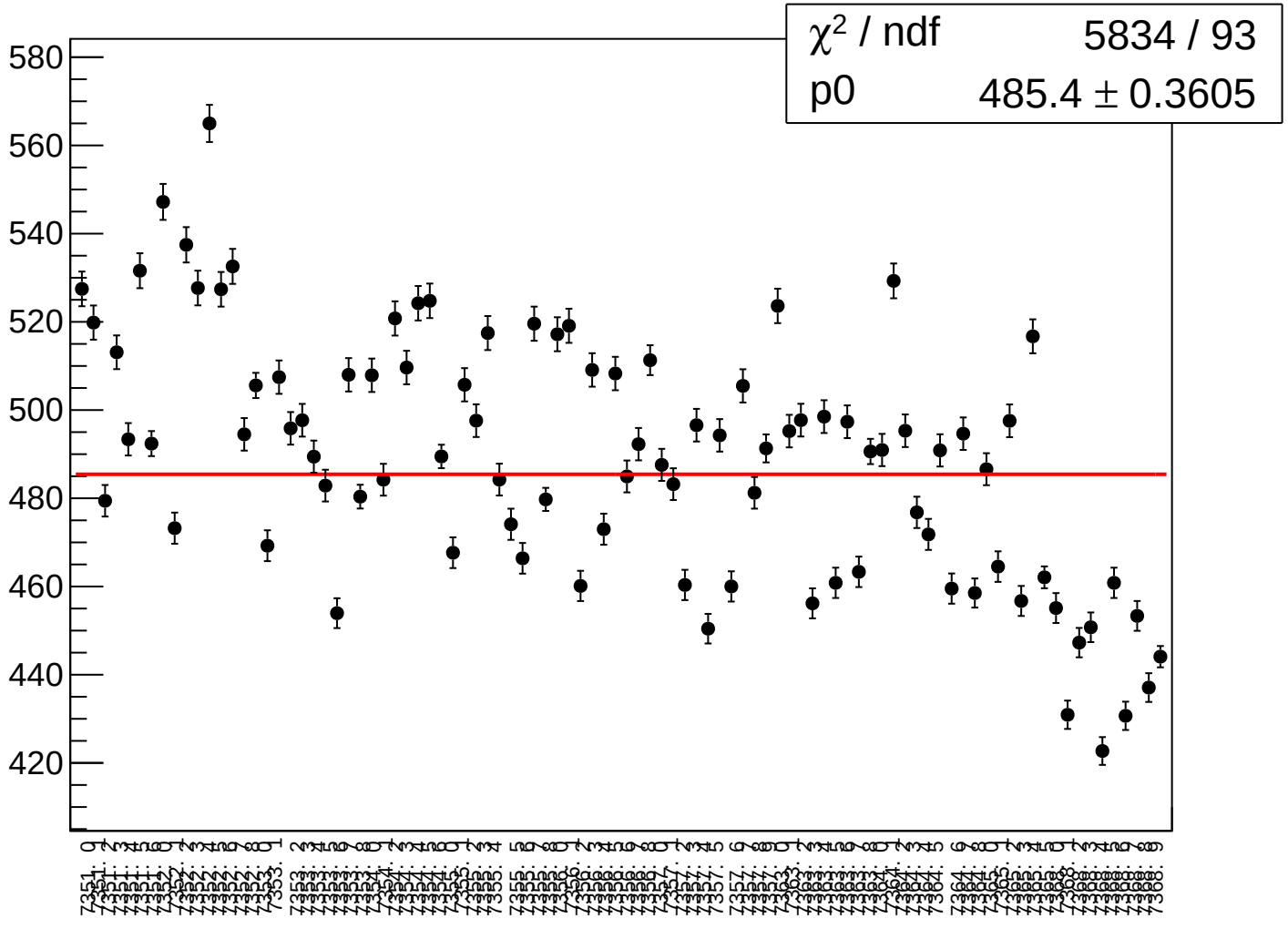

dit_asym_us_dd_mean vs run
χ² / ndf 78.14 / 93
p0 −1009 ± 816
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −396.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

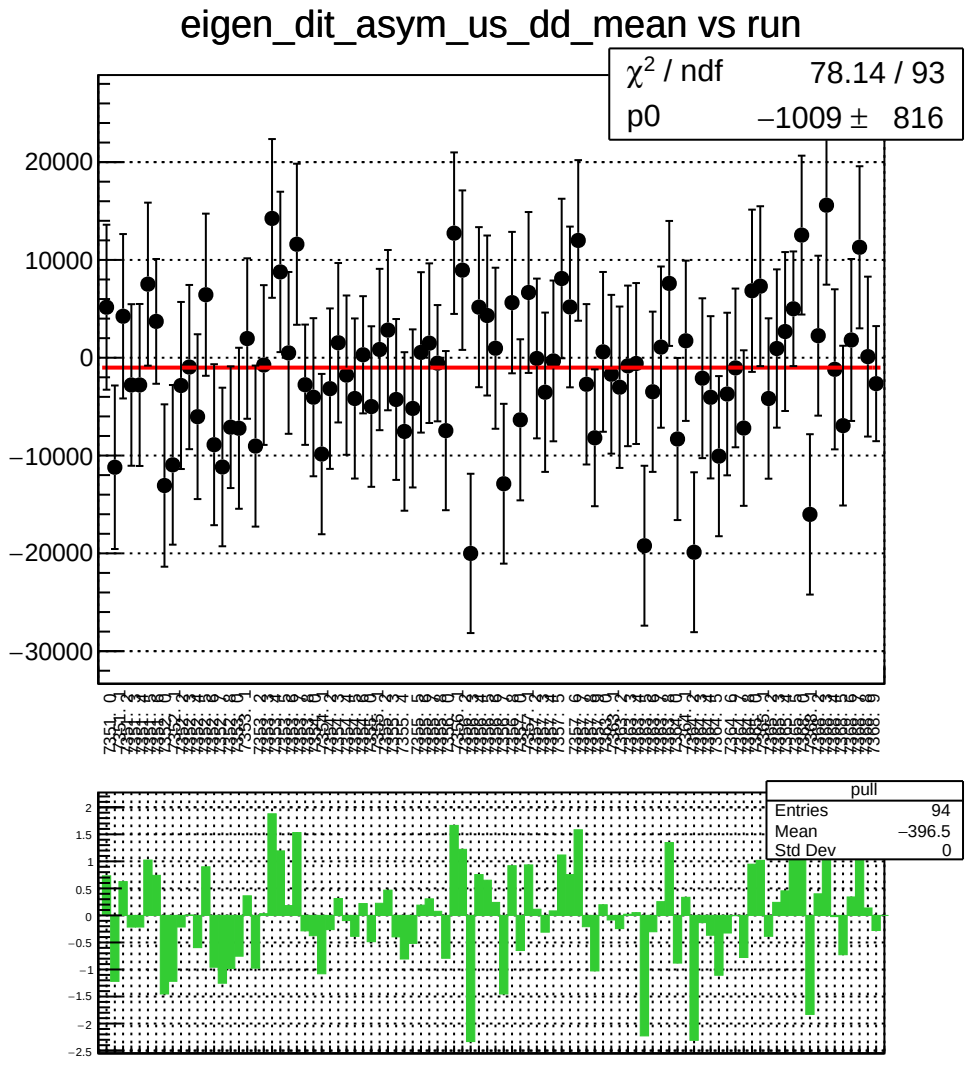

pull1D
Entries 94
Mean −0.00524
Std Dev 0.9117
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

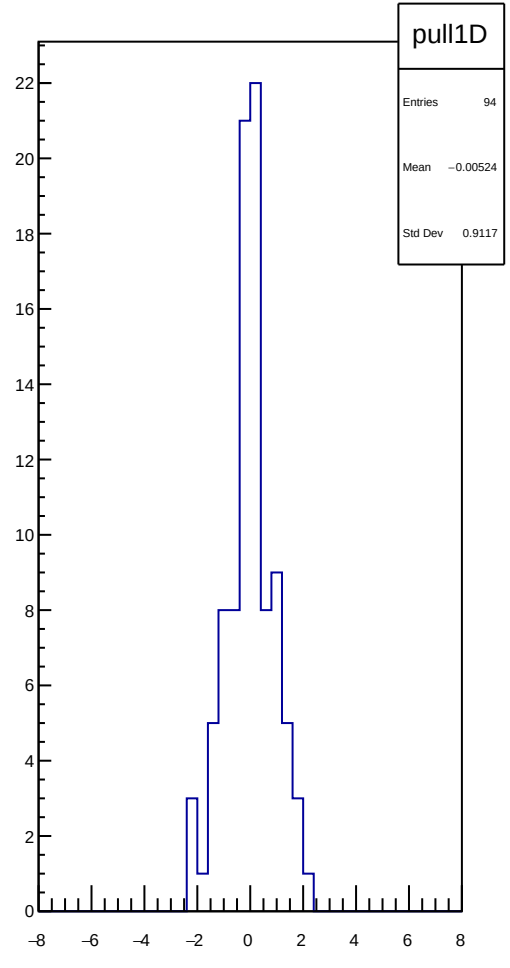

dit_asym_us_dd_rms vs run
χ^2 / ndf 174.8 / 93
p0 778.1 ± 0.577
820
810
800
790
780
770
760

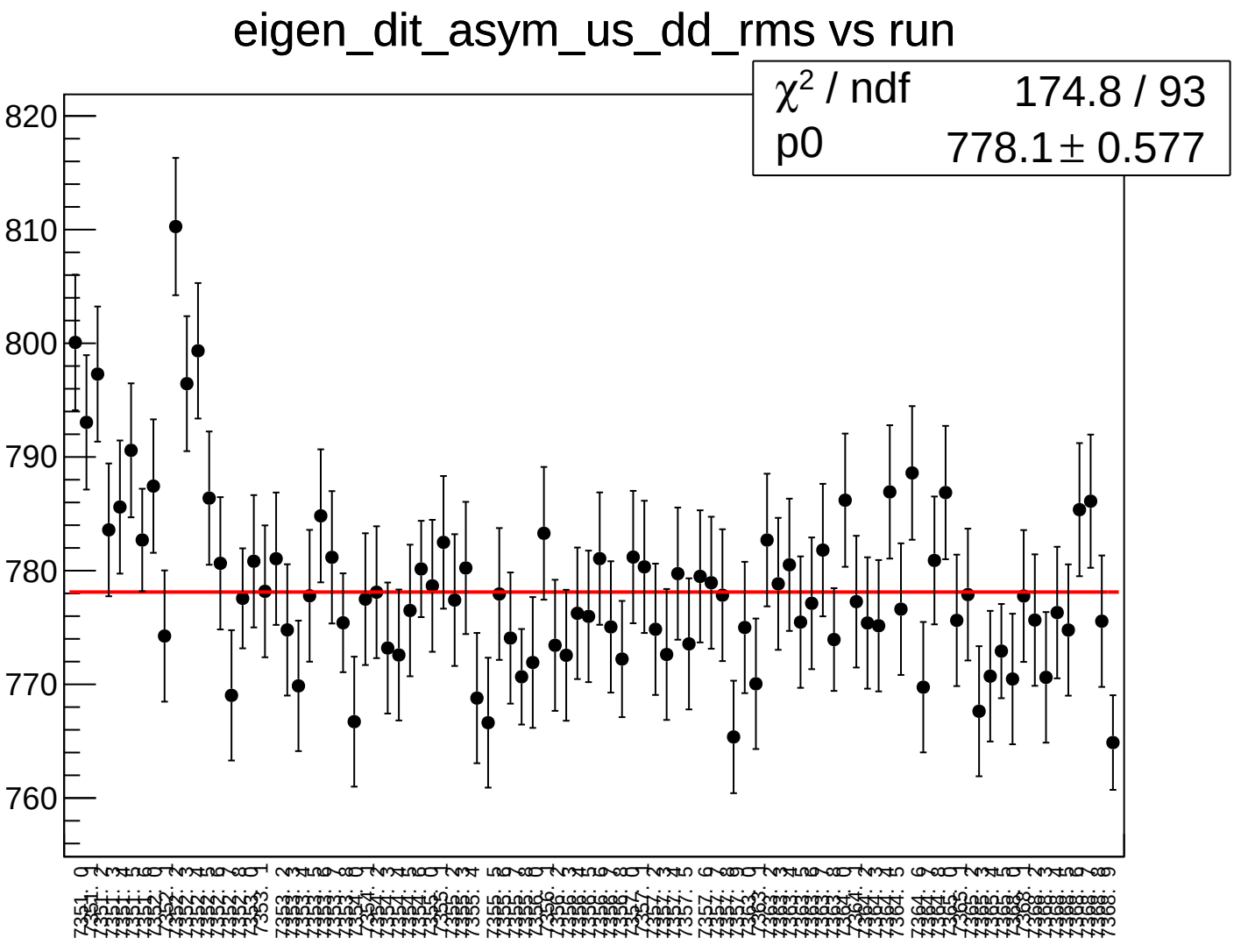

asym_us_dd_dit_correction_mean vs run
χ² / ndf 291.3 / 93
p0 621.7 ± 509.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −2095
Std Dev 0
4
2
0
−2
−4
pull1D
Entries 94
Mean 0.001548
Std Dev 1.76
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

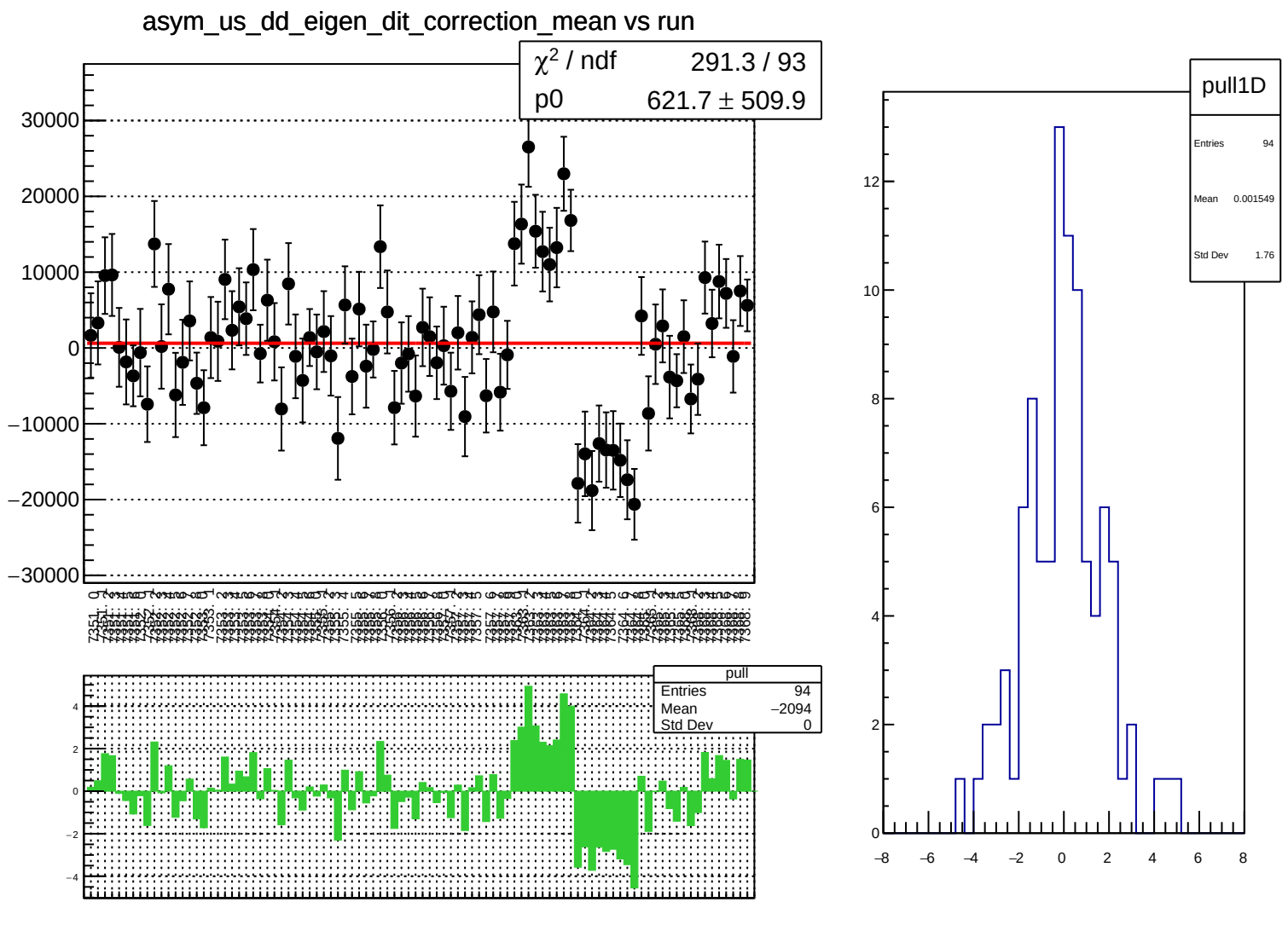
asym_us_dd_dit_correction_rms vs run

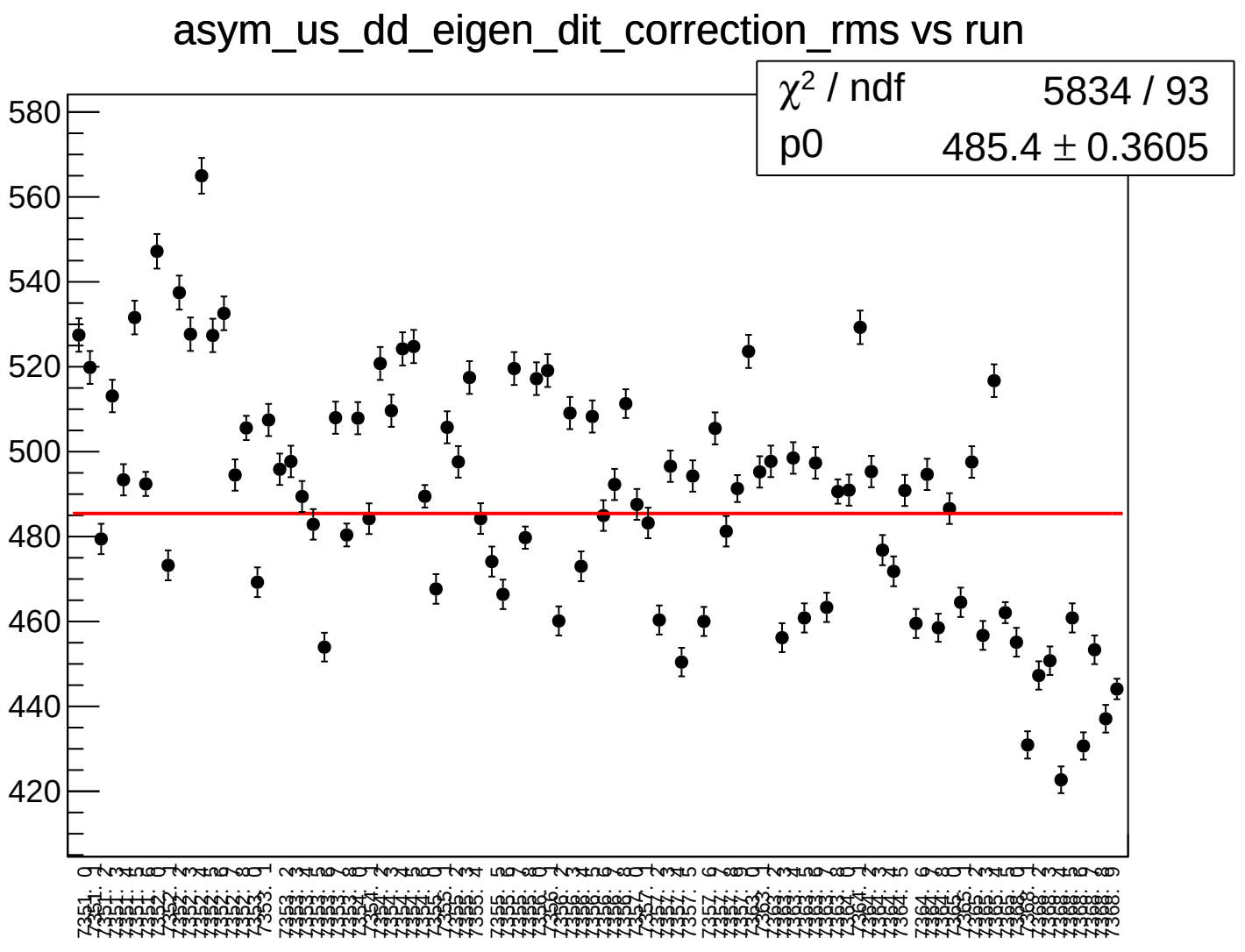


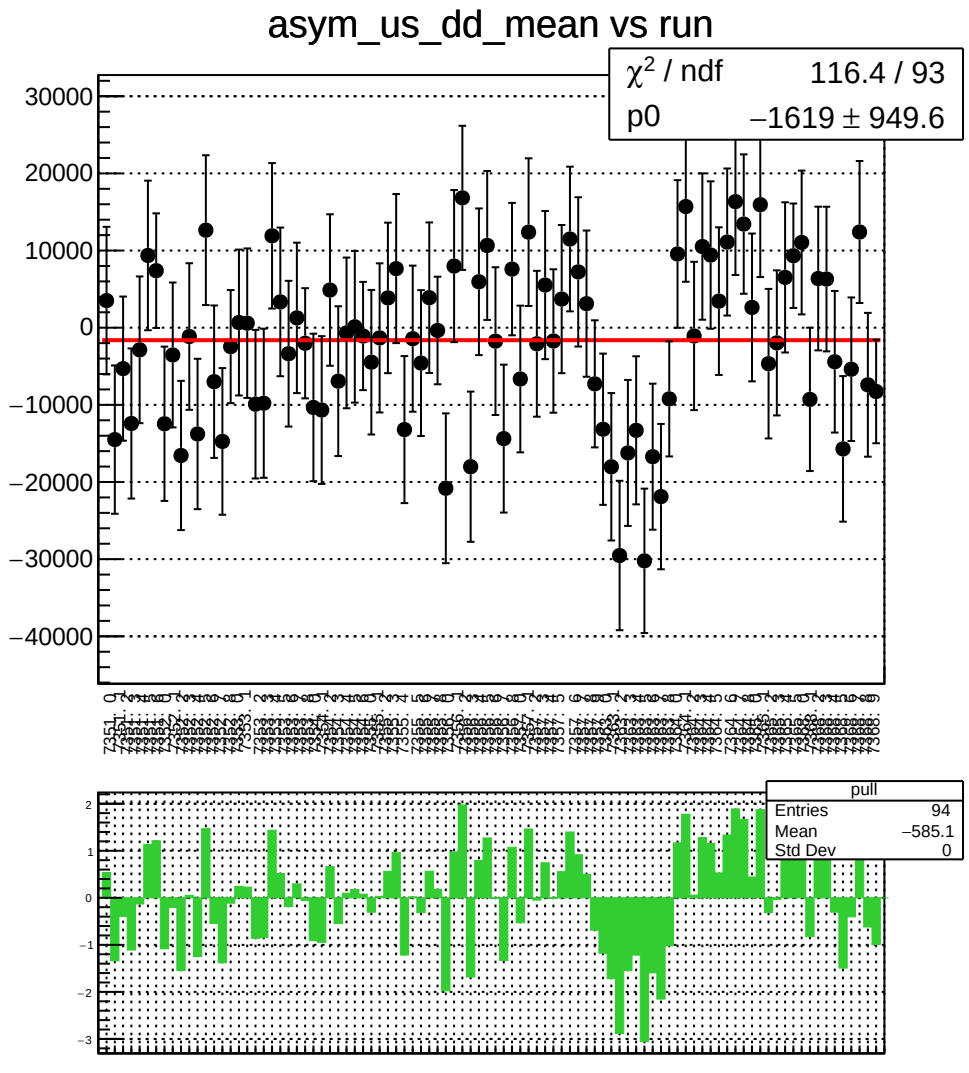

eigen_dit_asym_us_dd_mean vs run
χ² / ndf 78.14 / 93
p0 −1009 ± 816
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −396.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

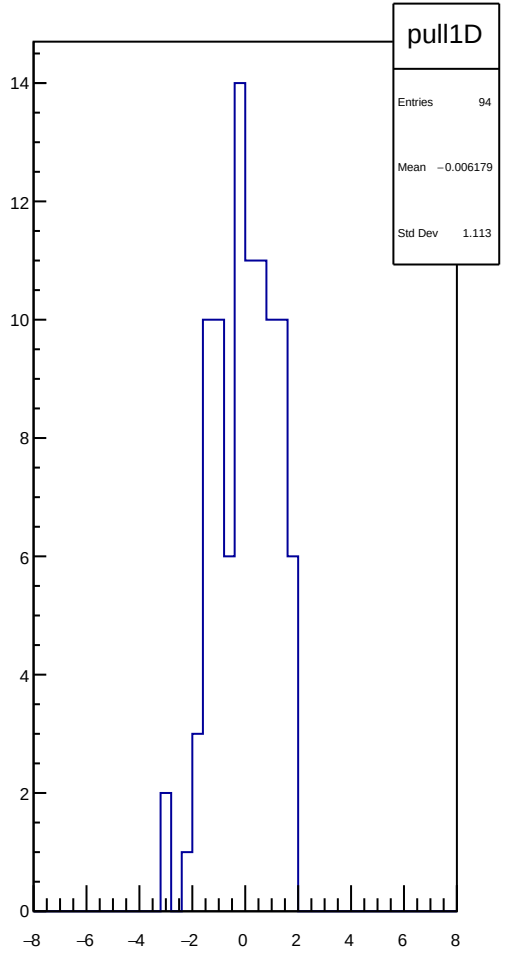

pull1D
Entries 94
Mean −0.00524
Std Dev 0.9117
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

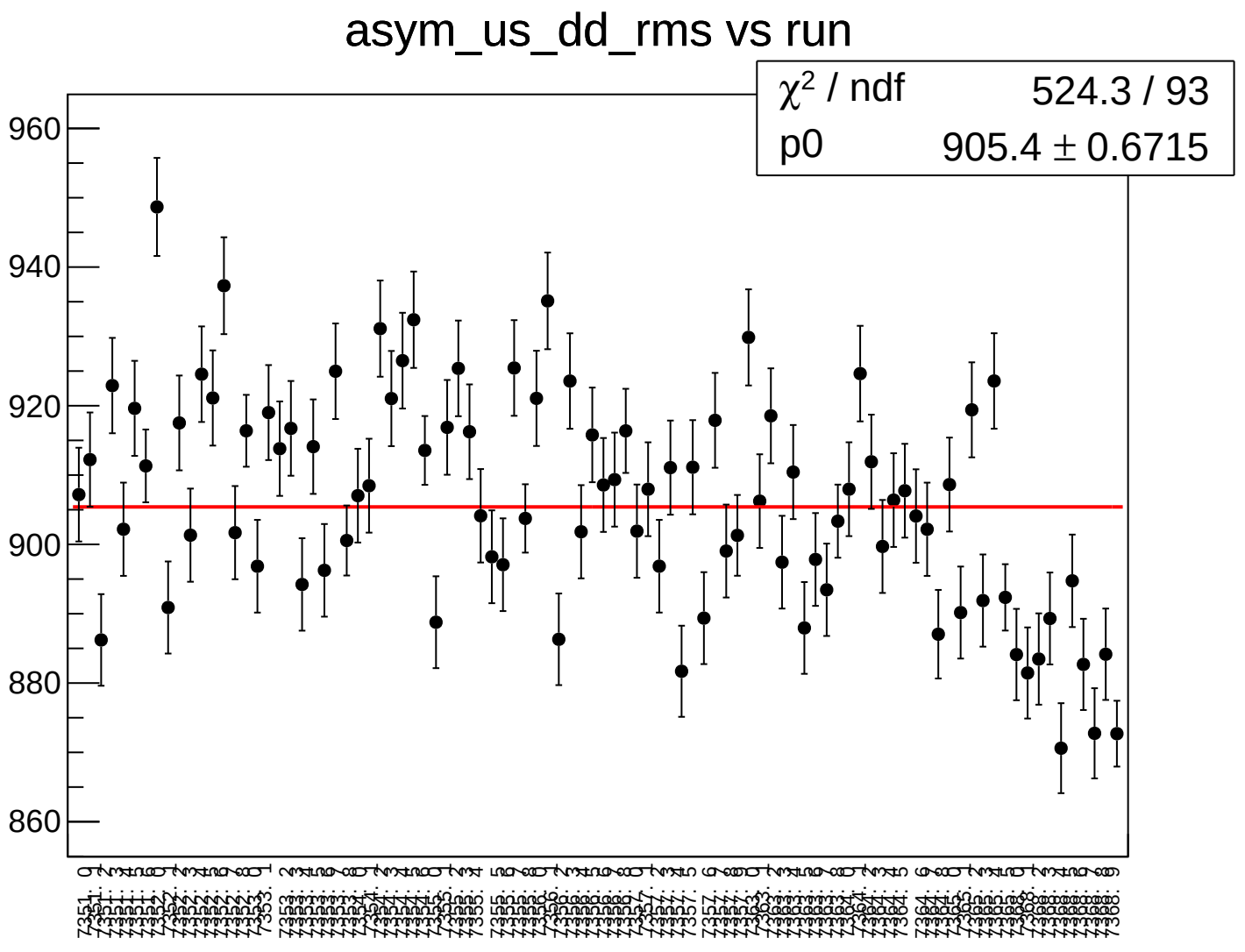

eigen_dit_asym_us_dd_rms vs run
χ^2 / ndf 174.8 / 93
p0 778.1 ± 0.577
820
810
800
790
780
770
760

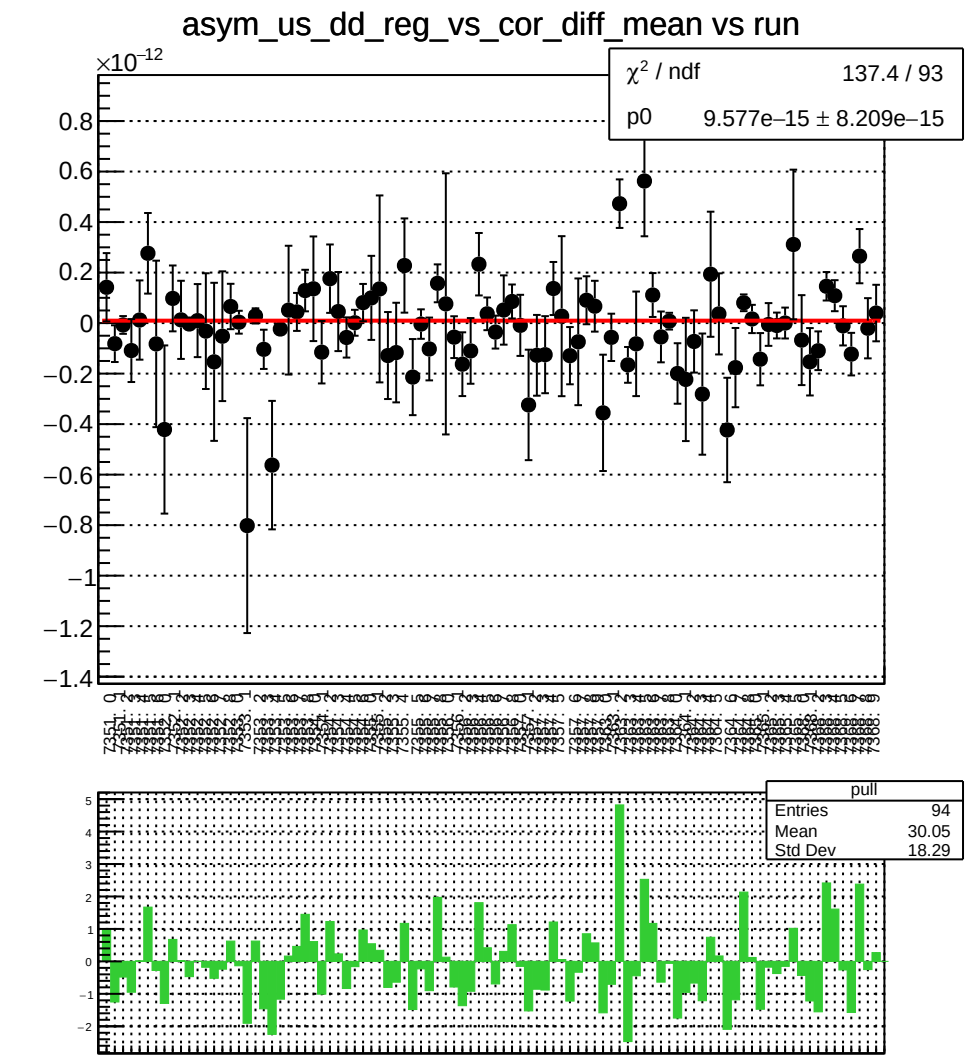

asym_us_dd_eigen_dit_correction_mean vs run
χ² / ndf 291.3 / 93
p0 621.7 ± 509.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −2094
Std Dev 0
4
2
0
−2
−4
pull1D
Entries 94
Mean 0.001549
Std Dev 1.76
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

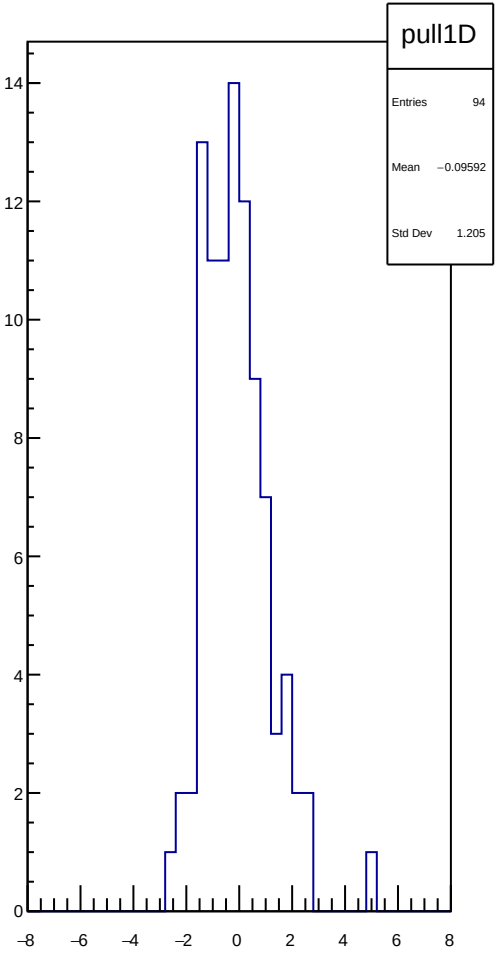

asym_us_dd_eigen_dit_correction_rms vs run
χ² / ndf 5834 / 93
p0 485.4 ± 0.3605
580
560
540
520
500
480
460
440
420

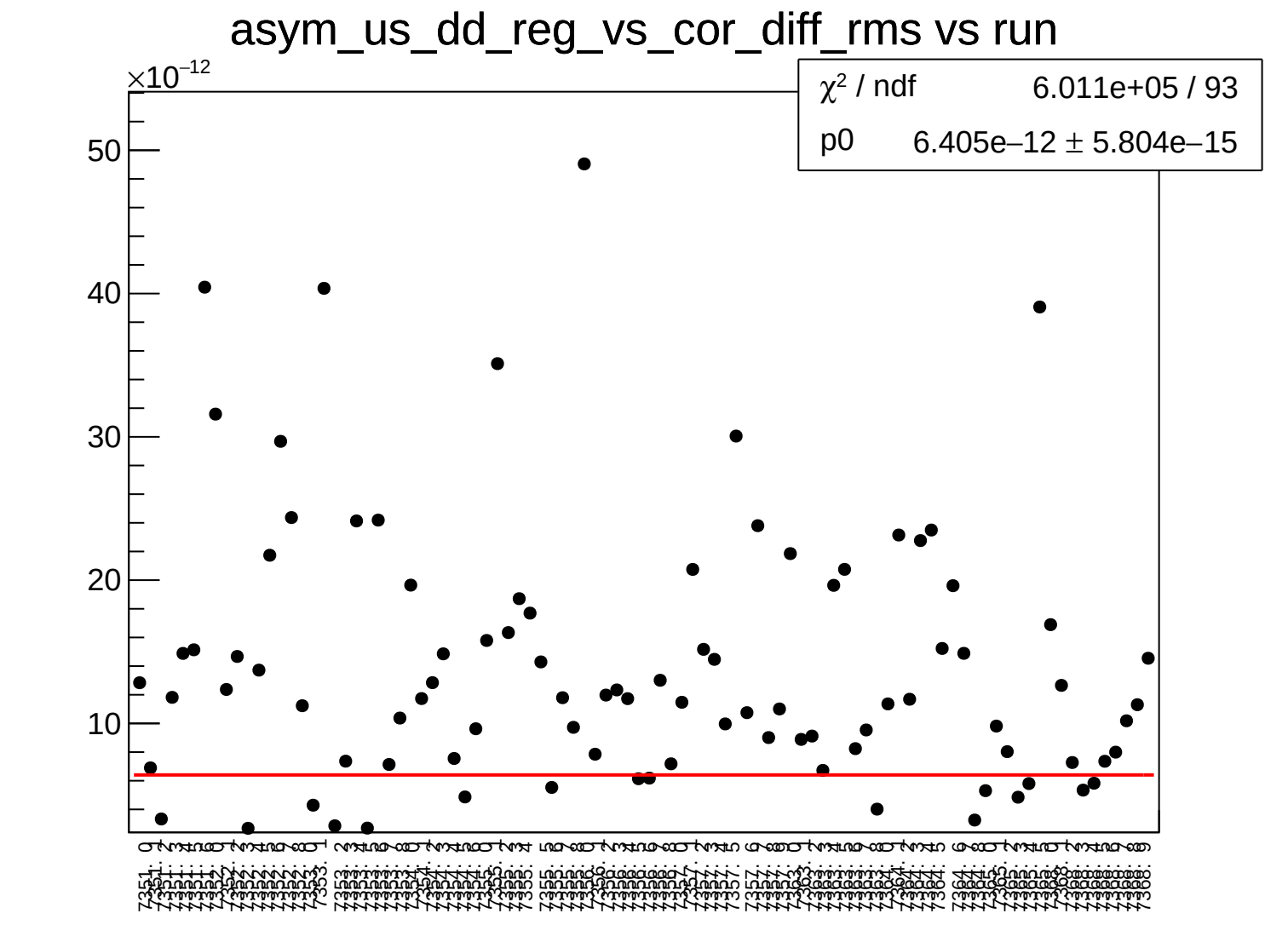

asym_us_dd_mean vs run
χ^2 / ndf 116.4 / 93
p0 −1619 ± 949.6
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 94
Mean −585.1
Std Dev 0
2
1
0
−1
−2
−3

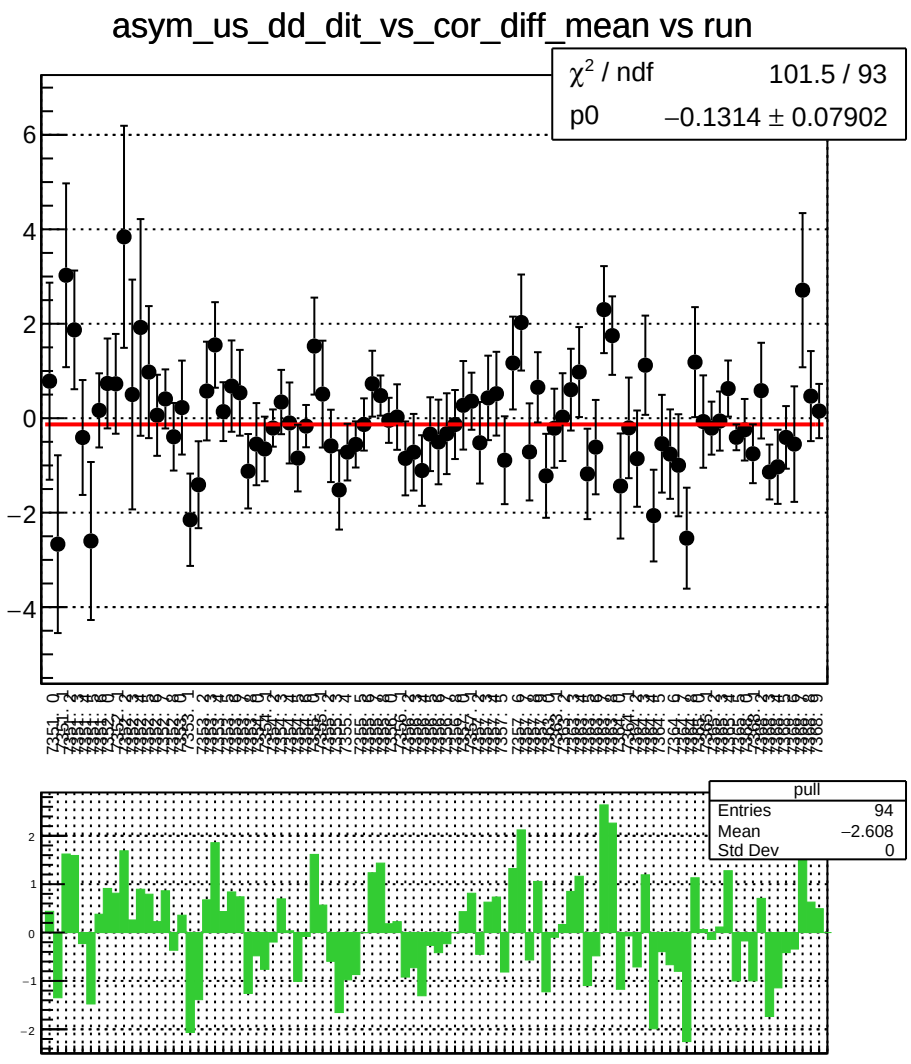

pull1D
Entries 94
Mean −0.006179
Std Dev 1.113
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

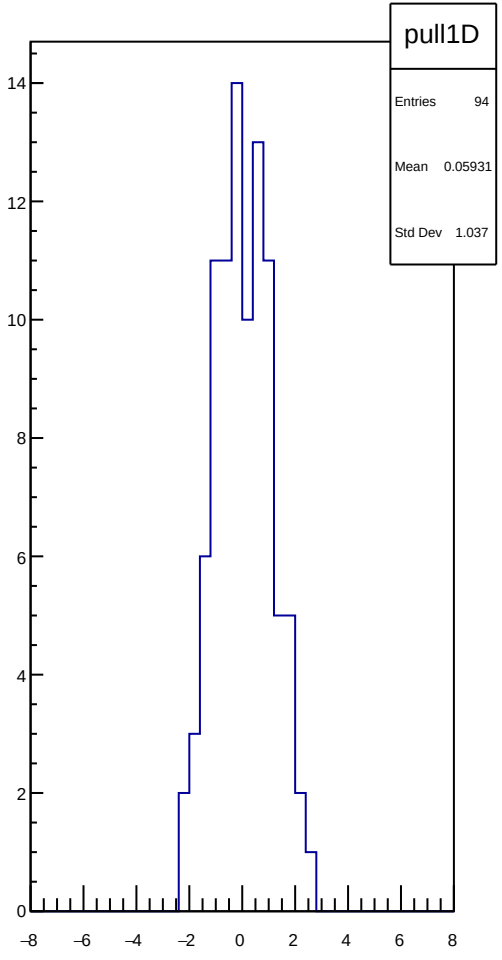

asym_us_dd_rms vs run
χ² / ndf 524.3 / 93
p0 905.4 ± 0.6715
960
940
920
900
880
860

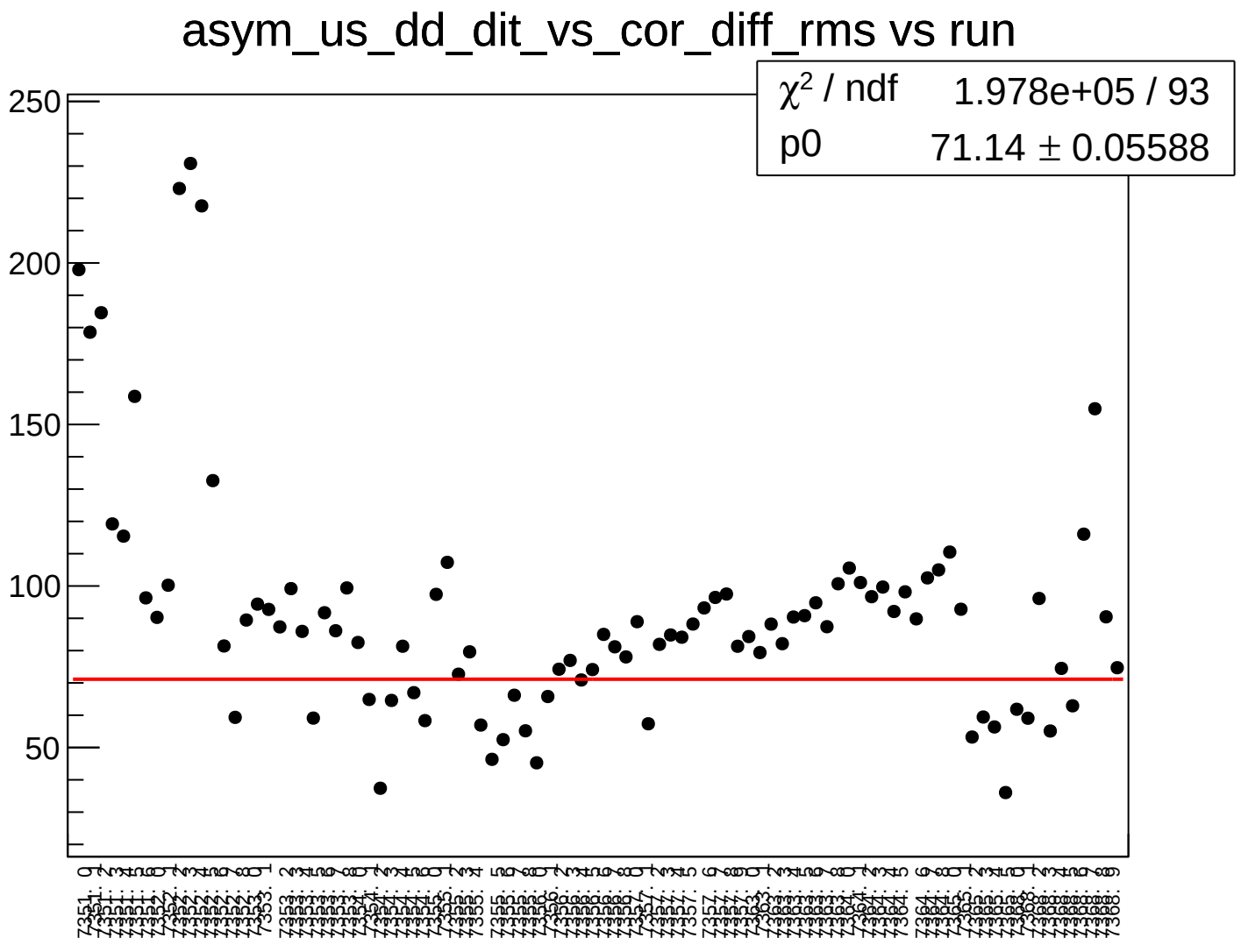

asym_us_dd_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 137.4 / 93
p0 9.577e−15 ± 8.209e−15
pull
Entries 94
Mean 30.05
Std Dev 18.29

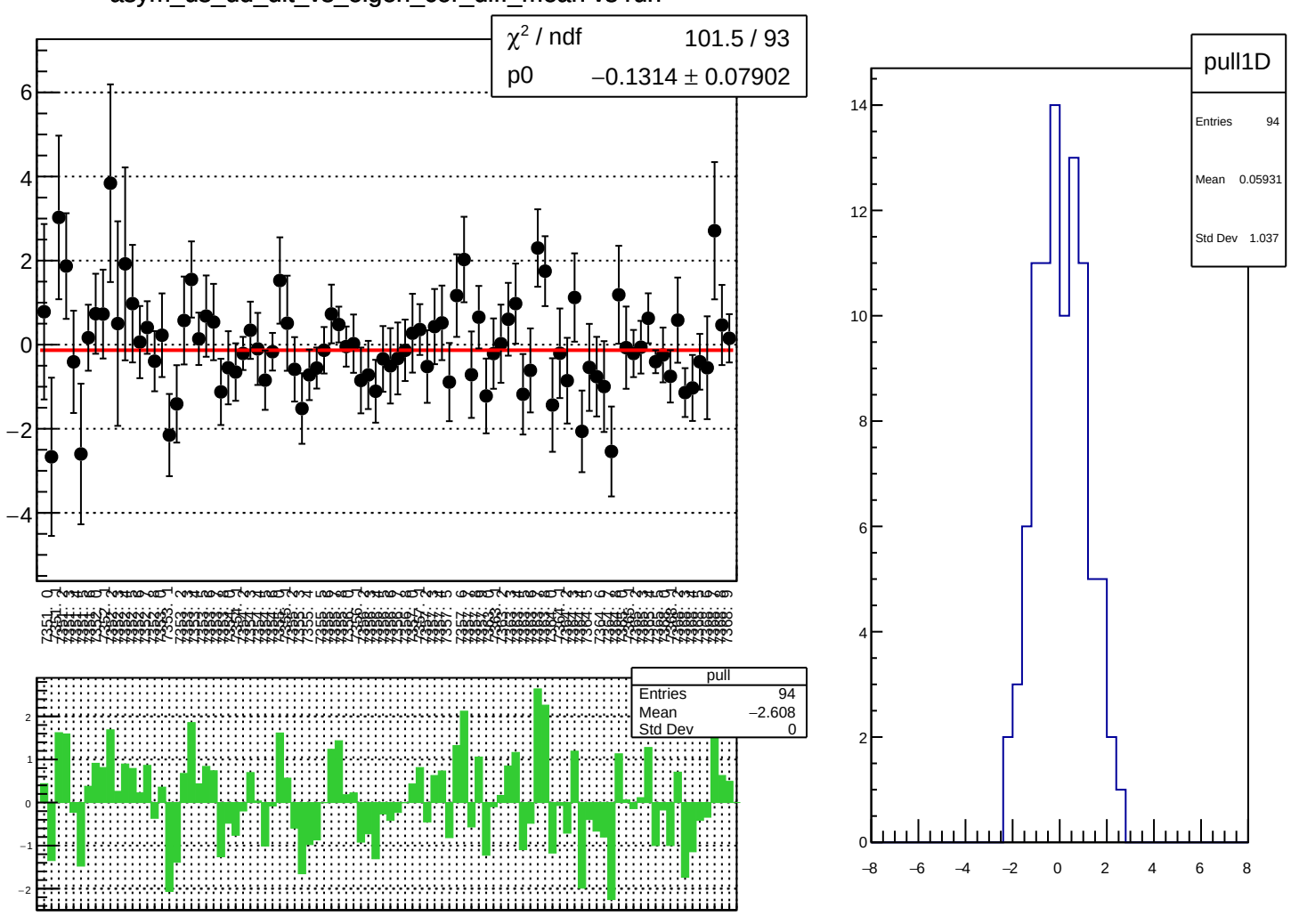

pull1D
Entries 94
Mean −0.09592
Std Dev 1.205

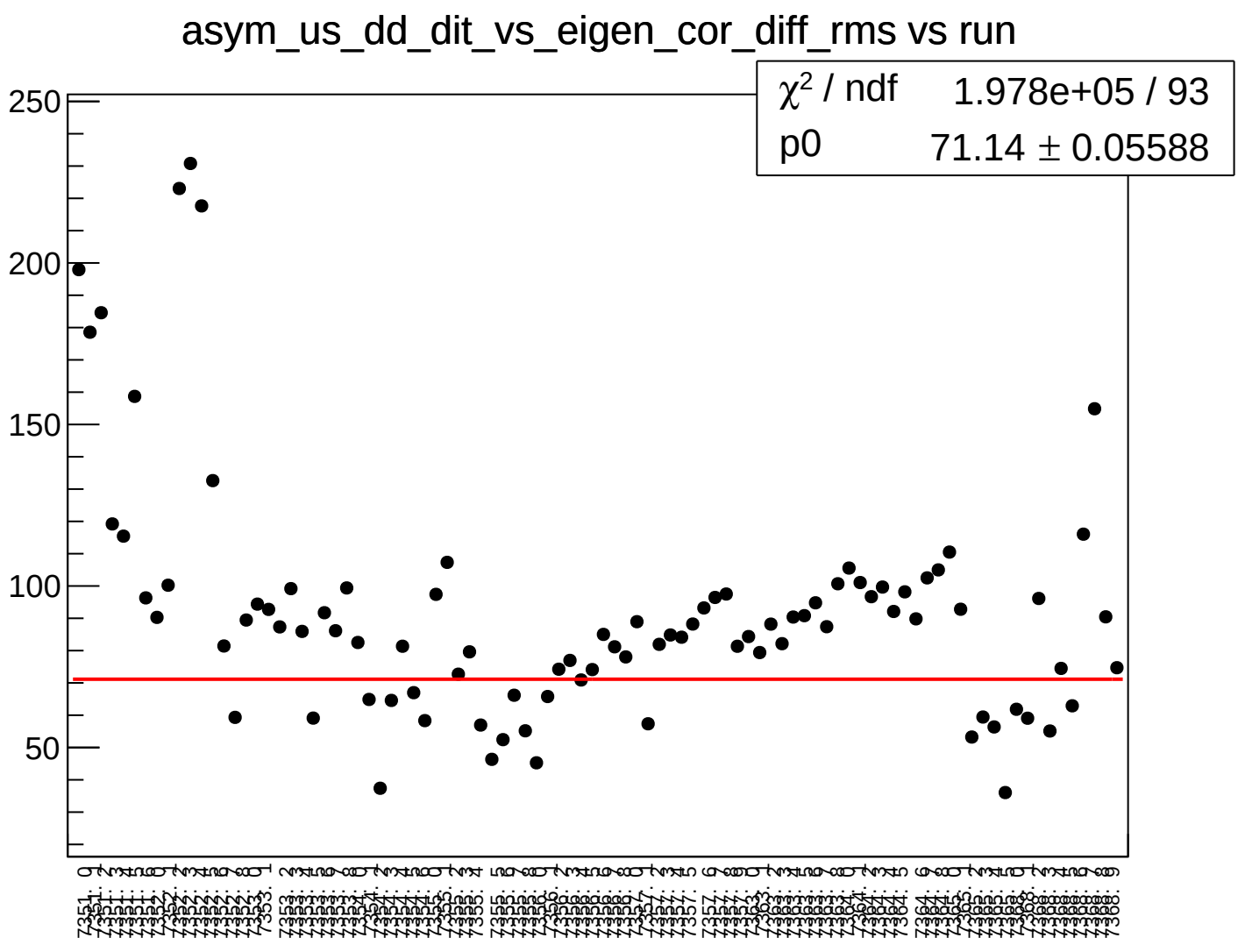

asym_us_dd_reg_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.011e+05 / 93
p0 6.405e−12 ± 5.804e−15
50
40
30
20
10

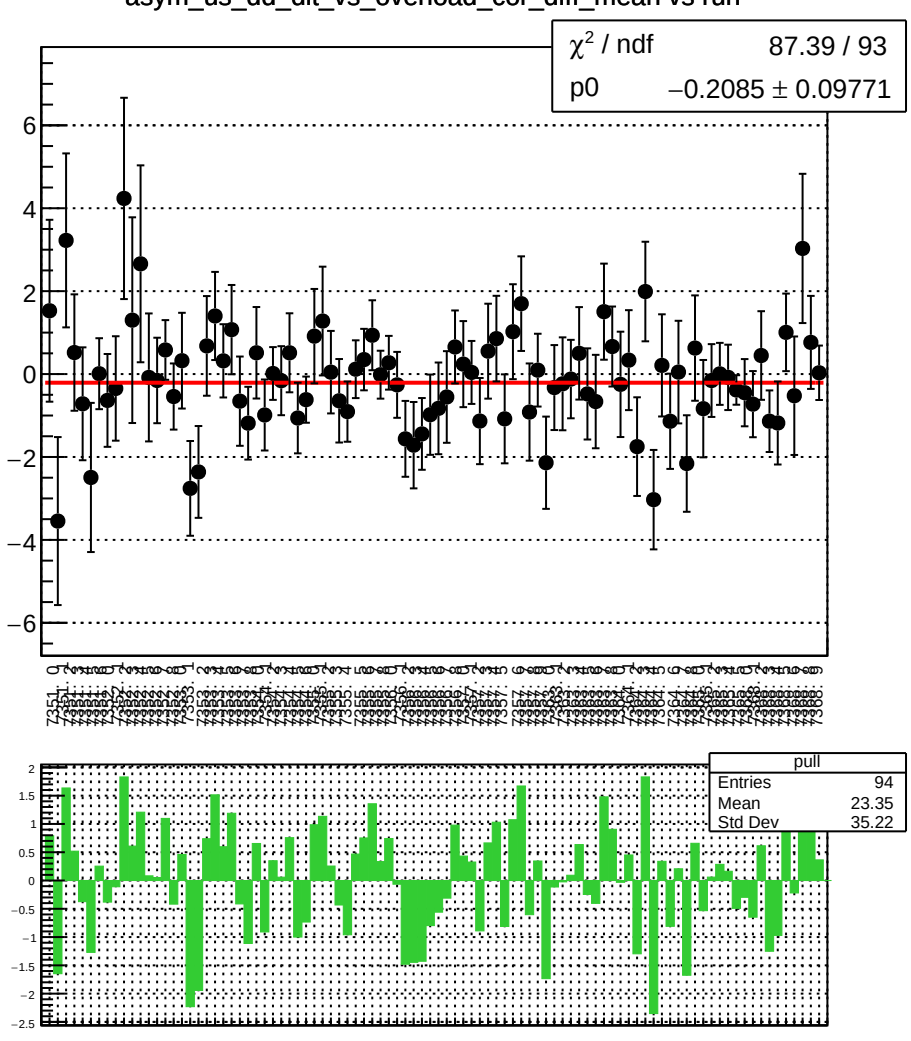

asym_us_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 101.5 / 93
p0 −0.1314 ± 0.07902
pull
Entries 94
Mean −2.608
Std Dev 0

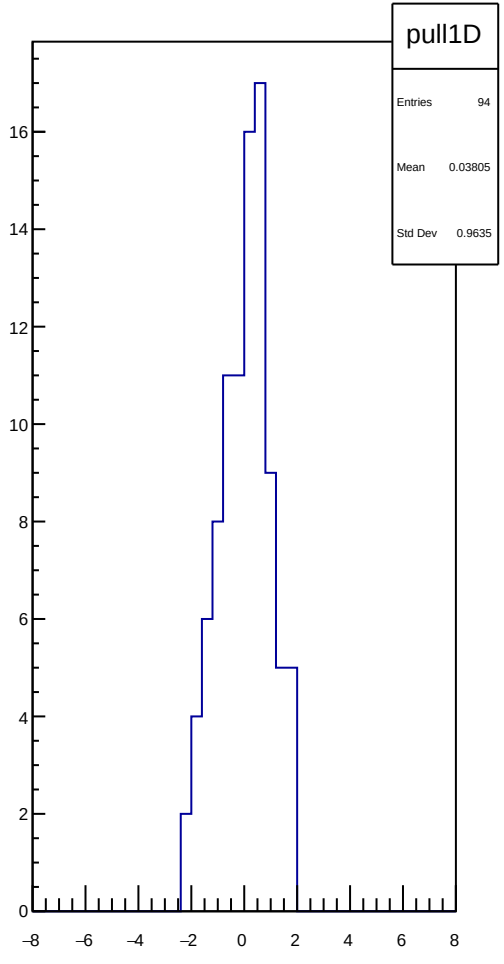

pull1D
Entries 94
Mean 0.05931
Std Dev 1.037

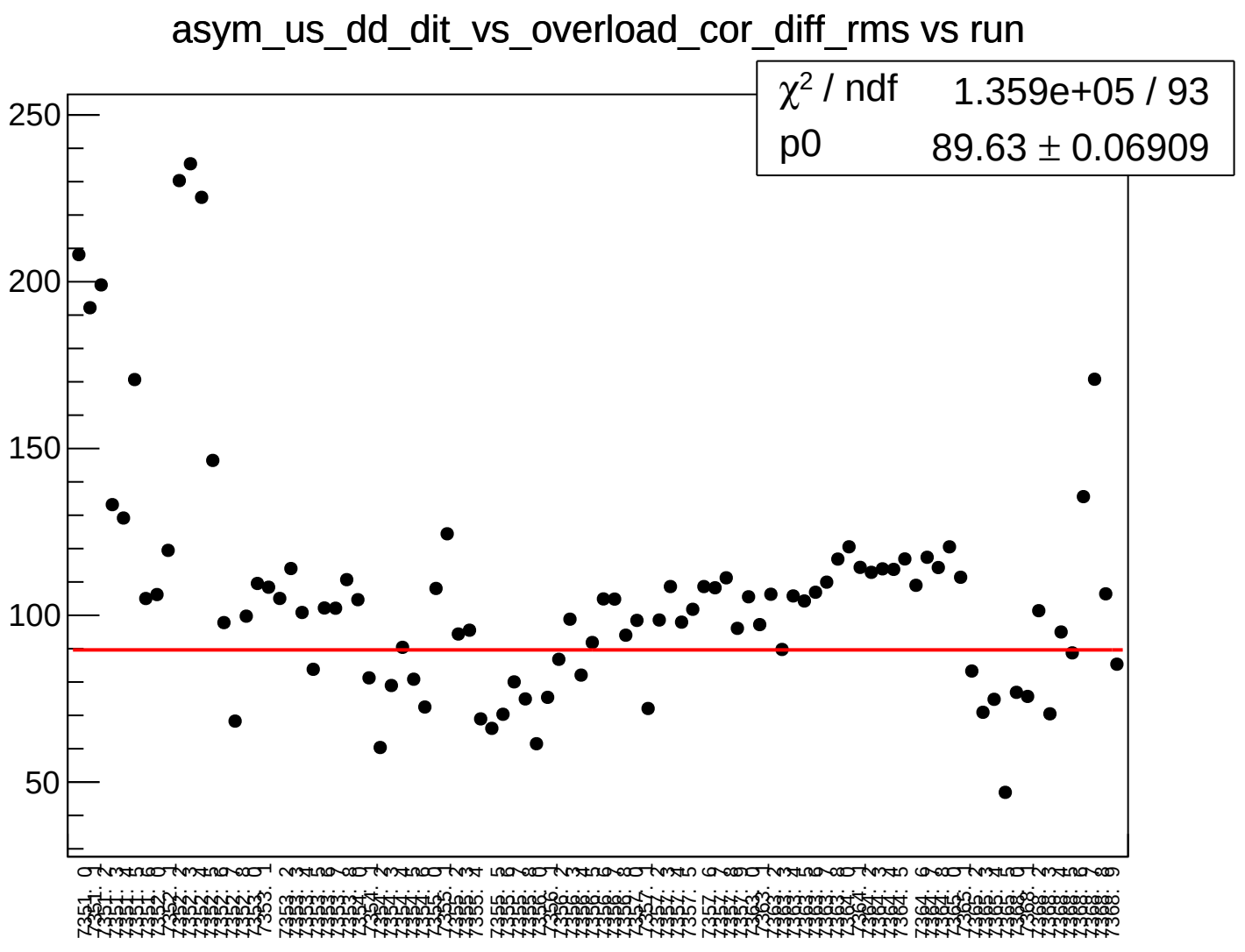

asym_us_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.978e+05 / 93
p0 71.14 ± 0.05588
250
200
150
100
50

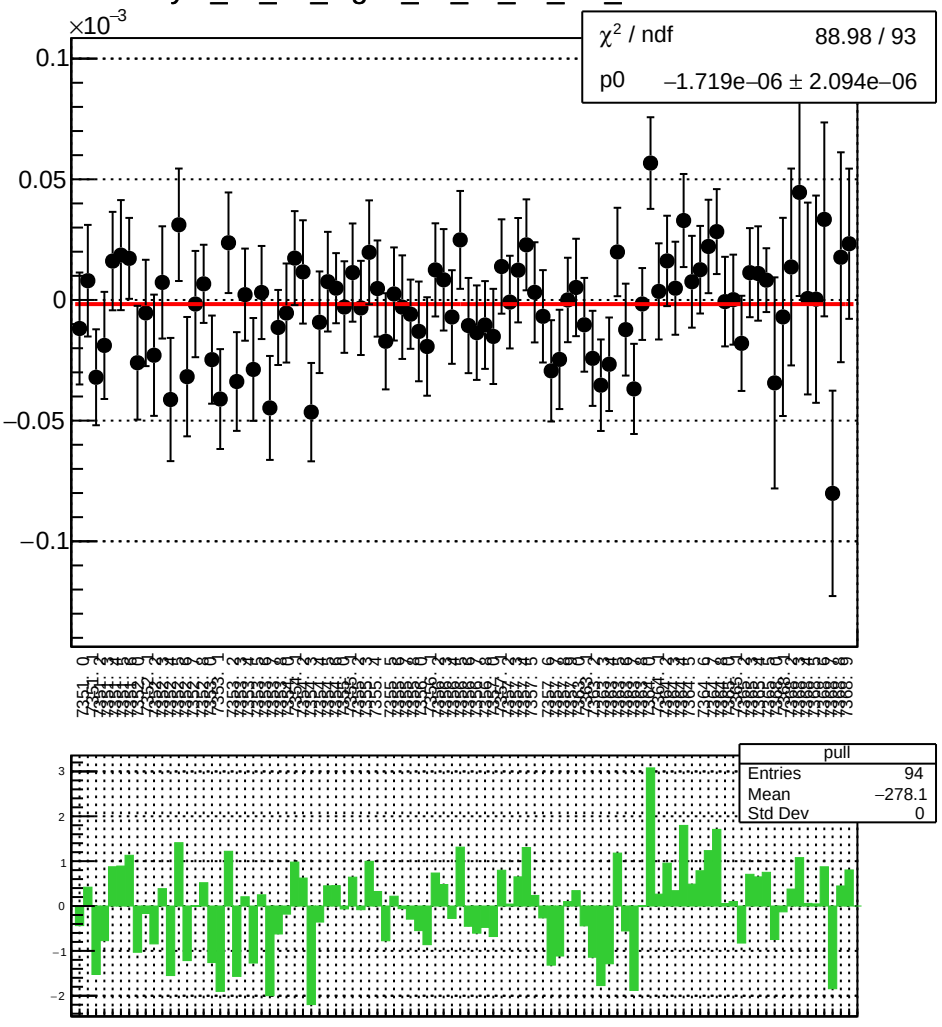

asym_us_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.5 / 93
p0 −0.1314 ± 0.07902
pull
Entries 94
Mean −2.608
Std Dev 0
pull1D
Entries 94
Mean 0.05931
Std Dev 1.037

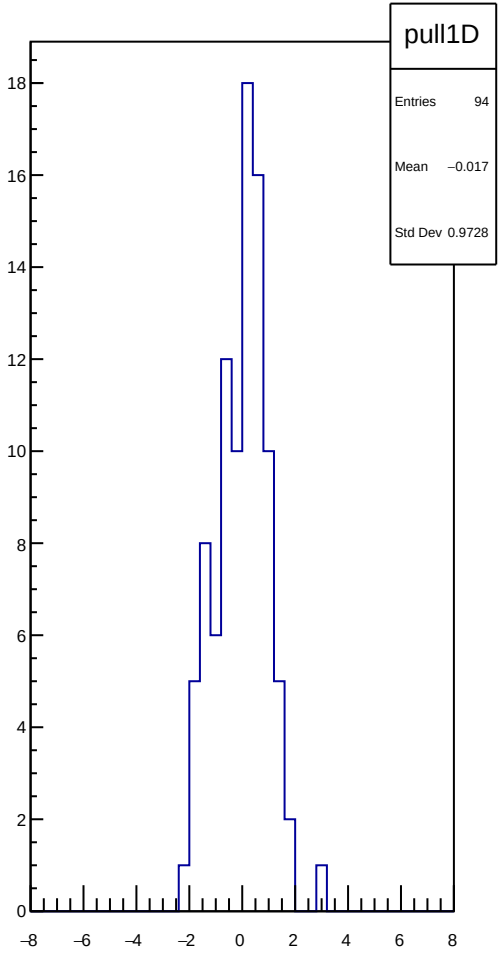

asym_us_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.978e+05 / 93
p0 71.14 ± 0.05588
250
200
150
100
50

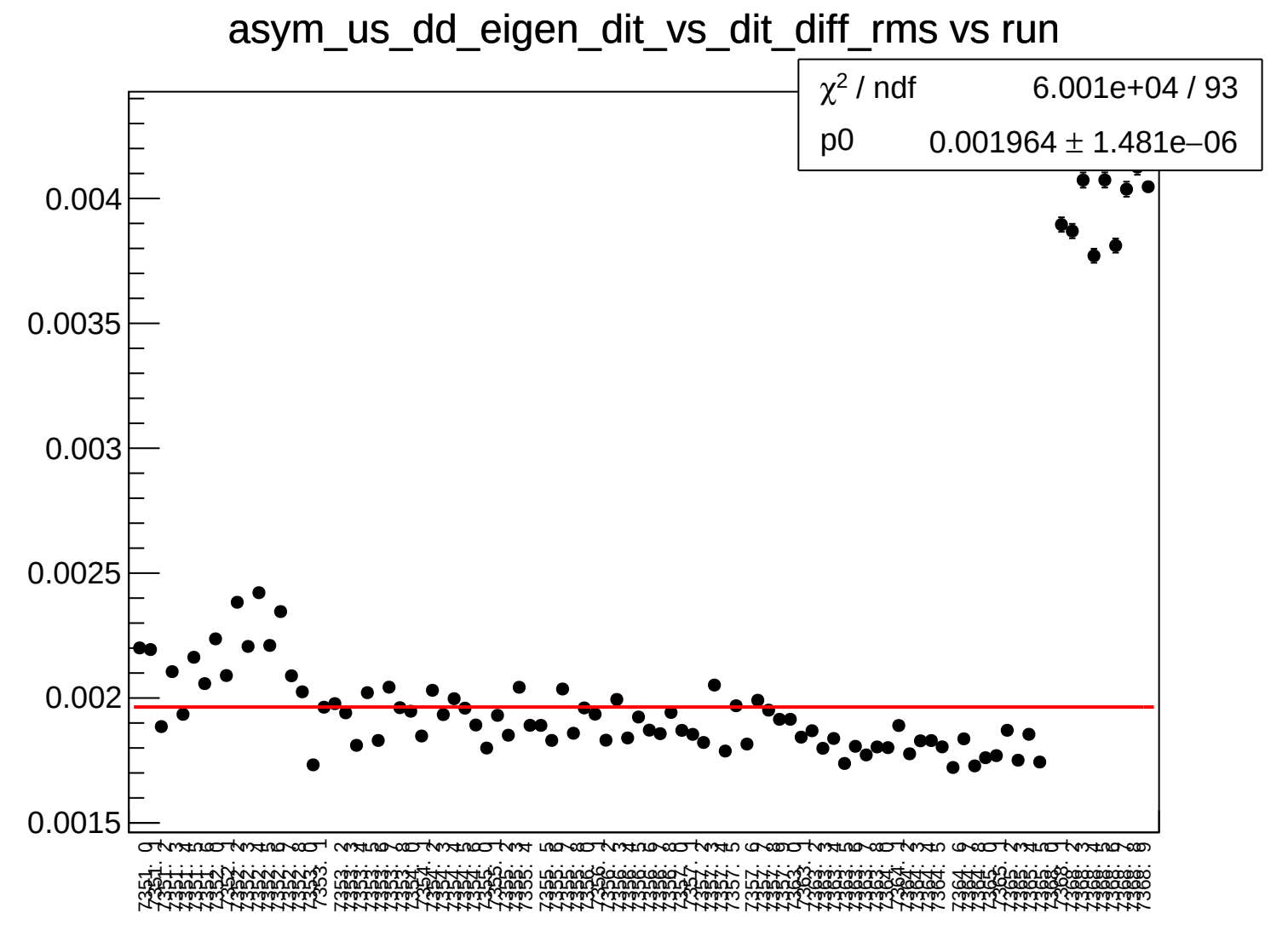

asym_us_dd_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 87.39 / 93
p0 −0.2085 ± 0.09771
pull
Entries 94
Mean 23.35
Std Dev 35.22

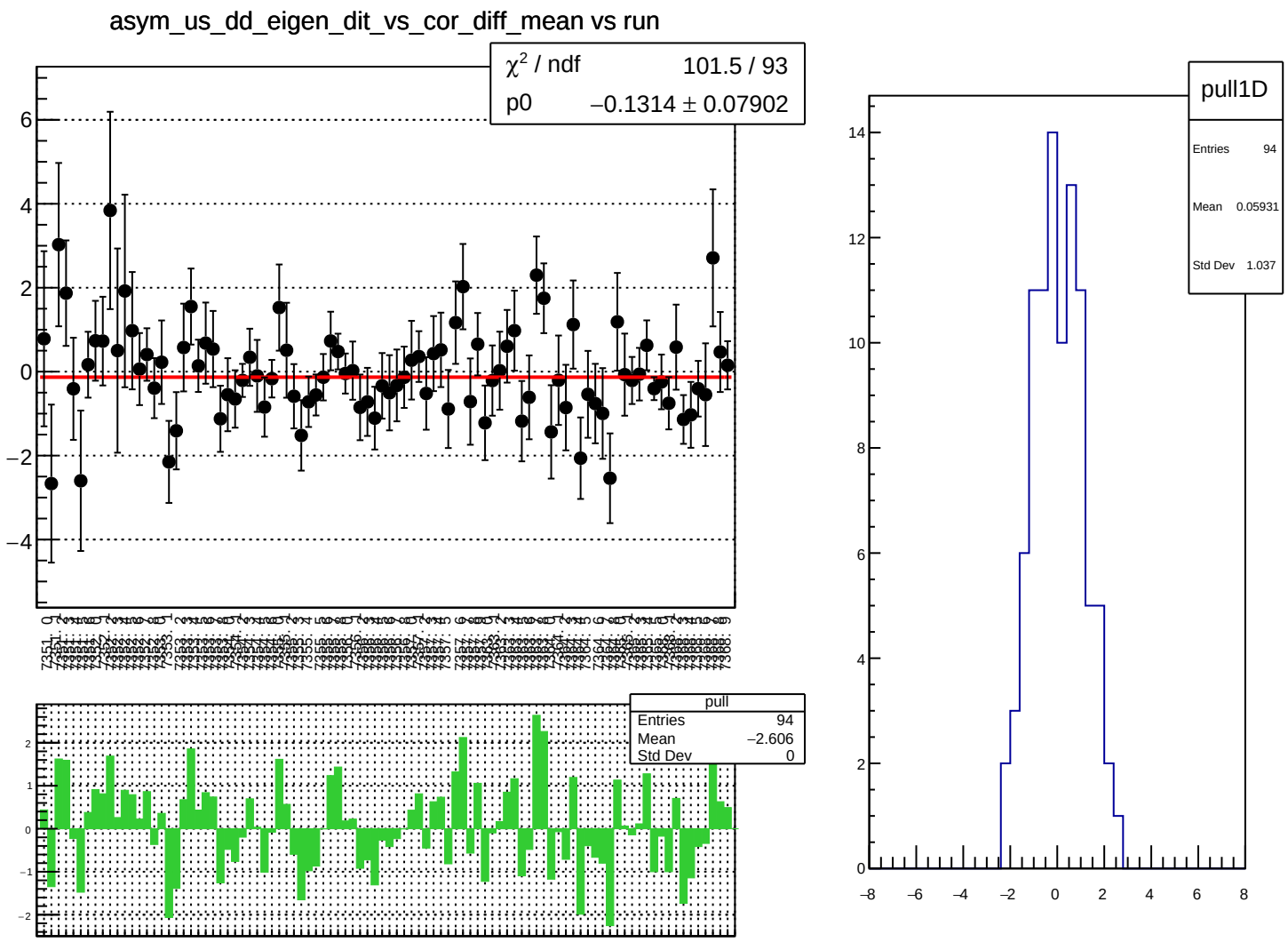

pull1D
Entries 94
Mean 0.03805
Std Dev 0.9635

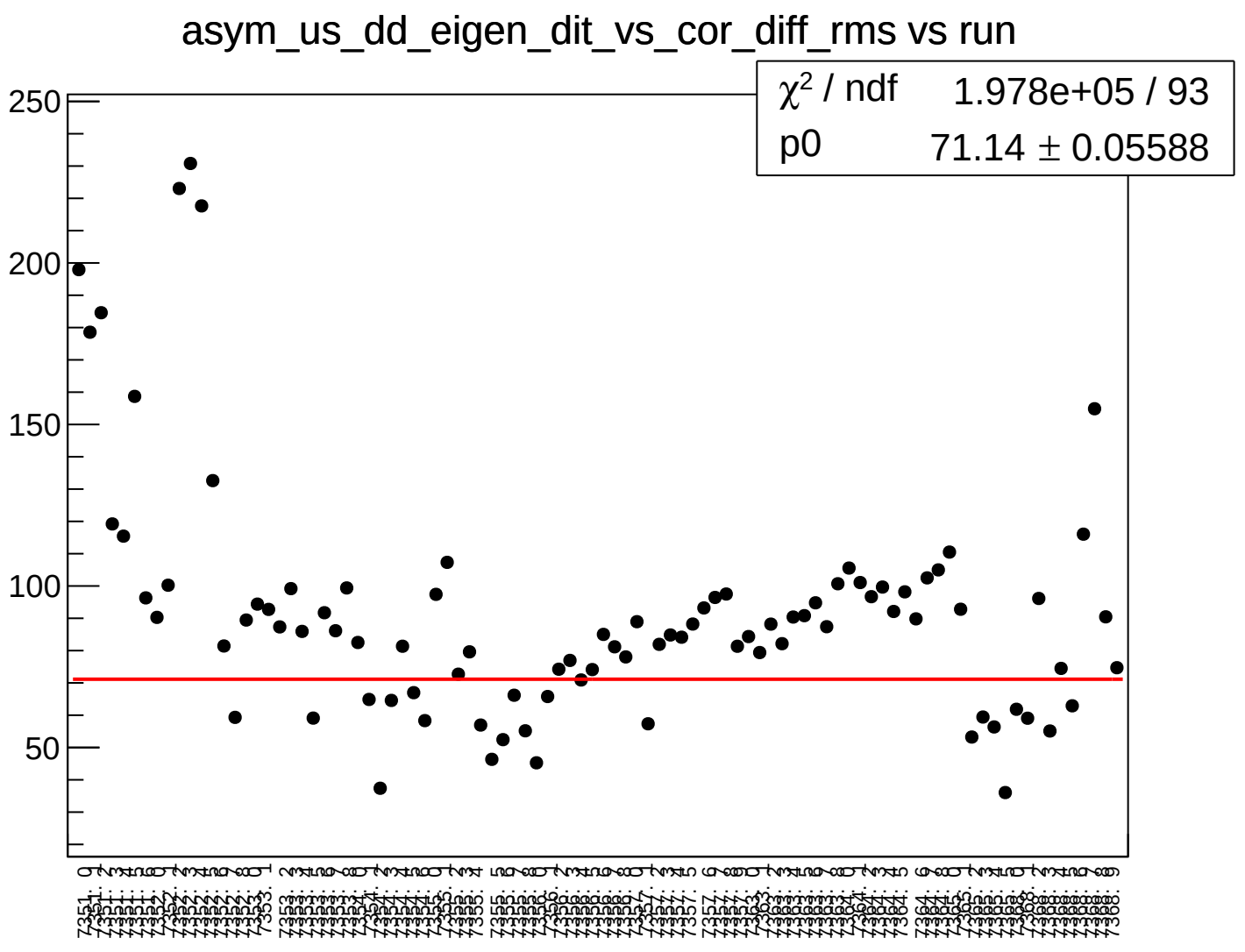

asym_us_dd_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.359e+05 / 93
p0 89.63 ± 0.06909
250
200
150
100
50

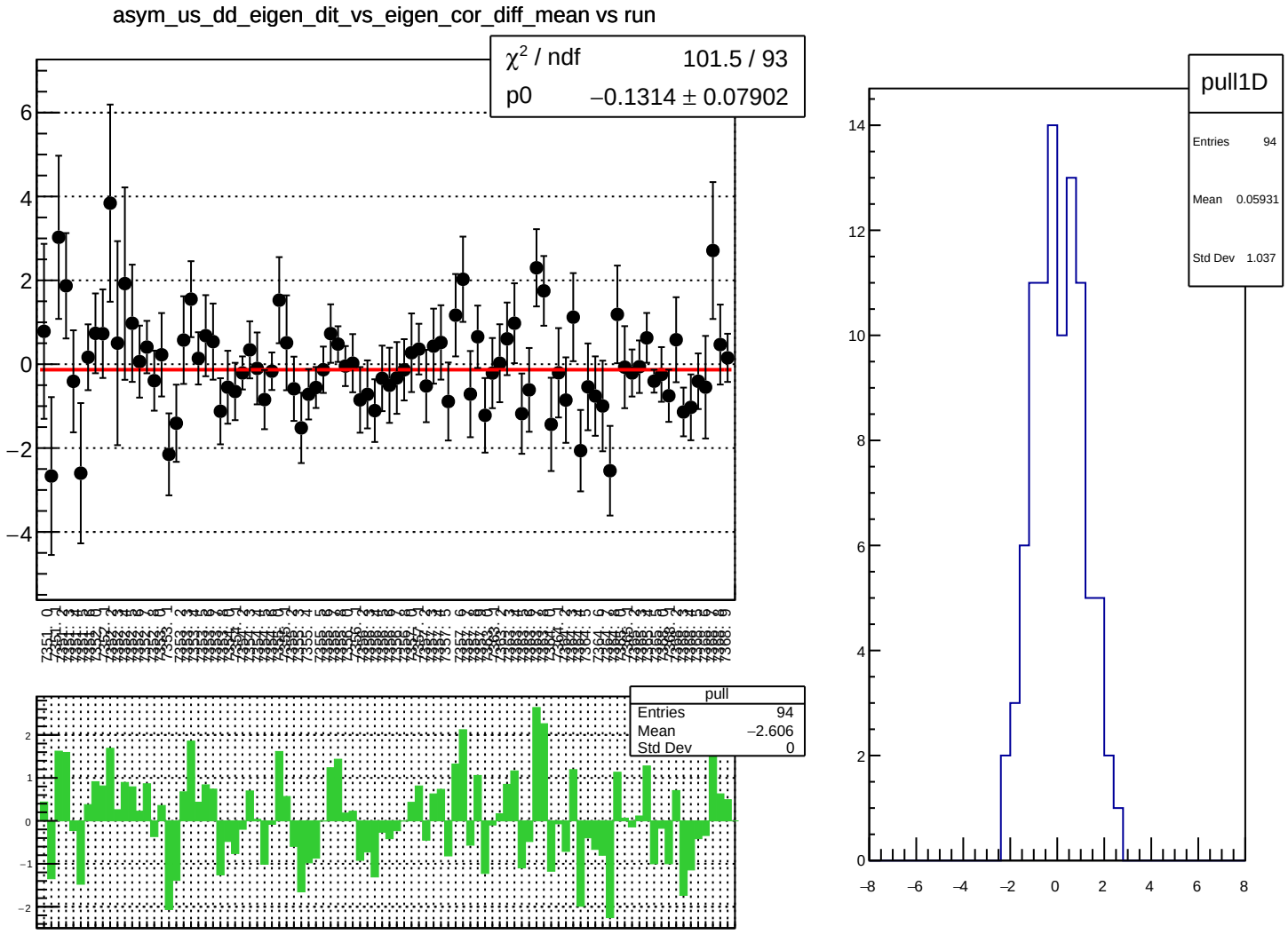

asym_us_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.98 / 93
p0 −1.719e−06 ± 2.094e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 94
Mean −278.1
Std Dev 0
3
2
1
0
−1
−2

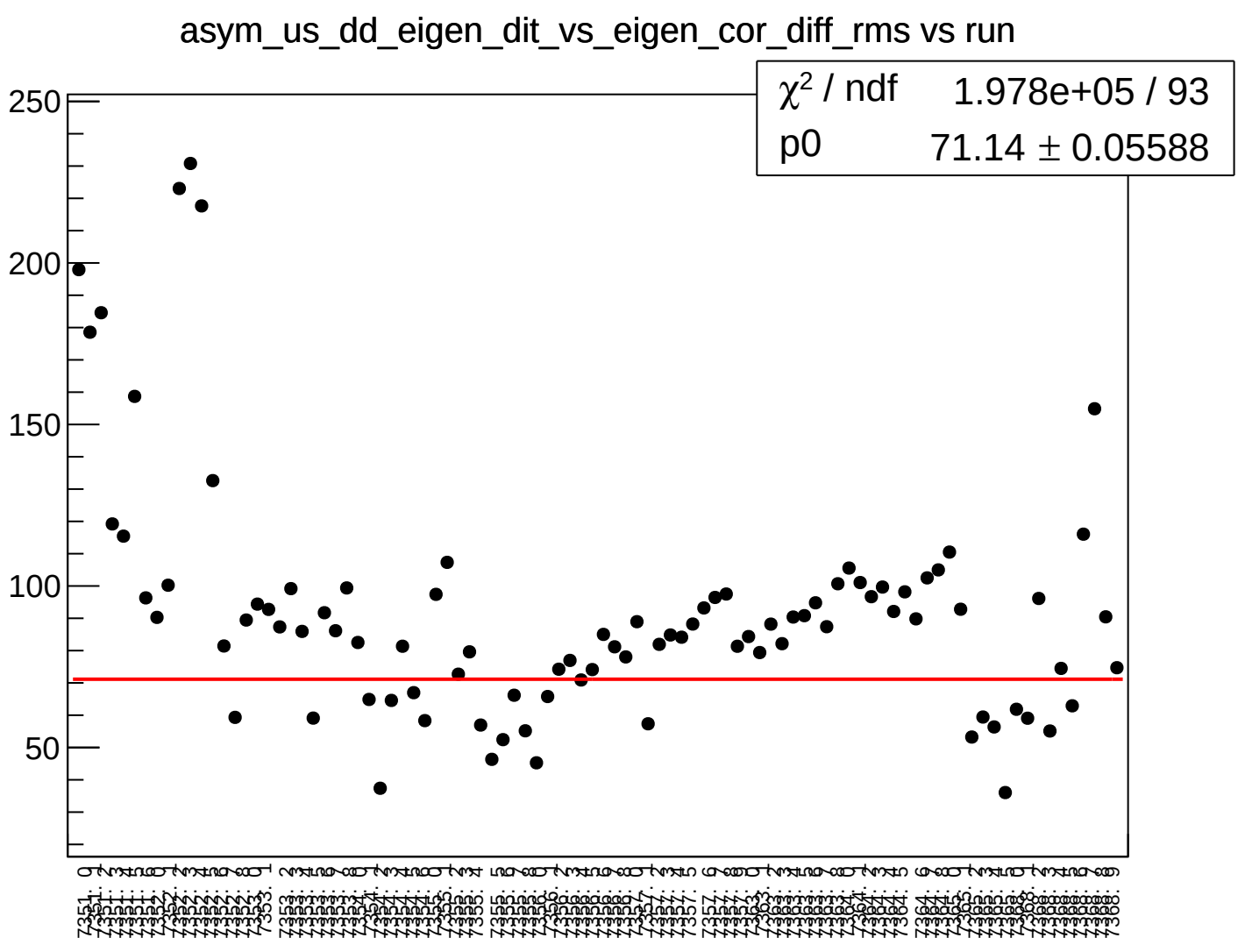

pull1D
Entries 94
Mean −0.017
Std Dev 0.9728
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

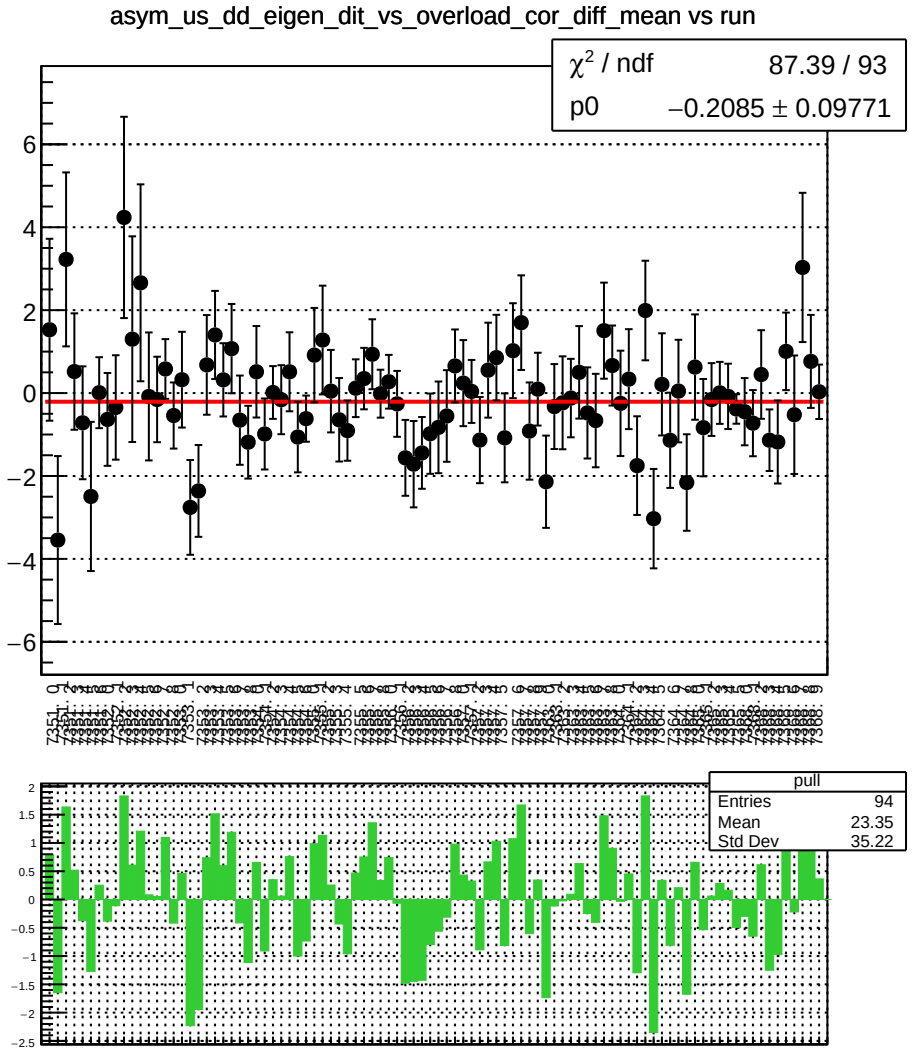

asym_us_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.001e+04 / 93
p0 0.001964 ± 1.481e−06
0.004
0.0035
0.003
0.0025
0.002
0.0015

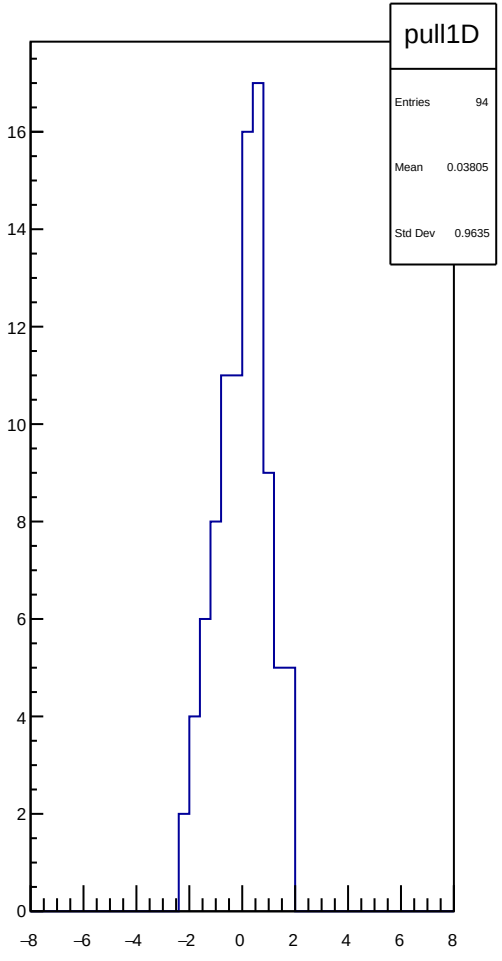

asym_us_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 101.5 / 93
p0 −0.1314 ± 0.07902
pull
Entries 94
Mean −2.606
Std Dev 0
pull1D
Entries 94
Mean 0.05931
Std Dev 1.037

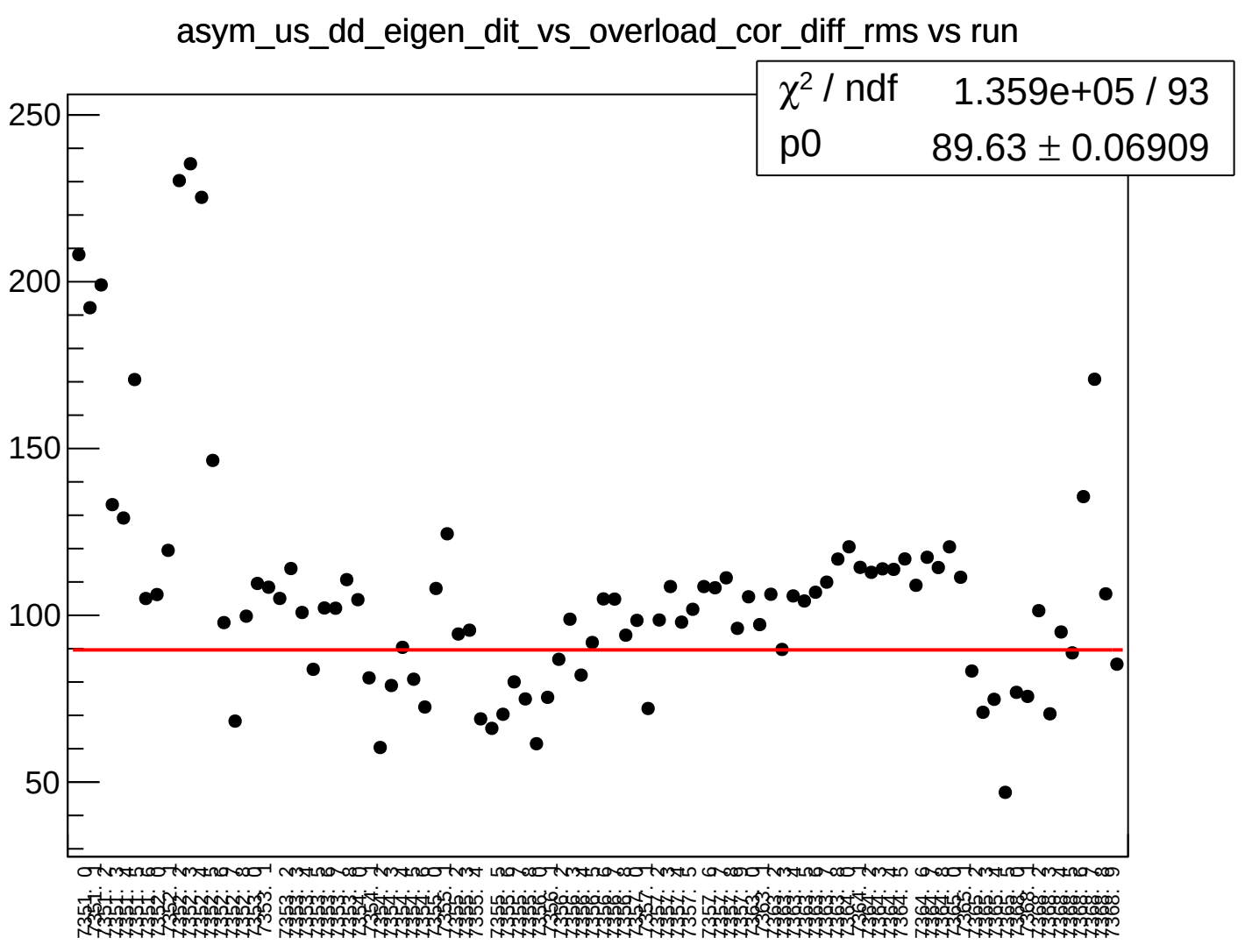

asym_us_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.978e+05 / 93
p0 71.14 ± 0.05588
250
200
150
100
50

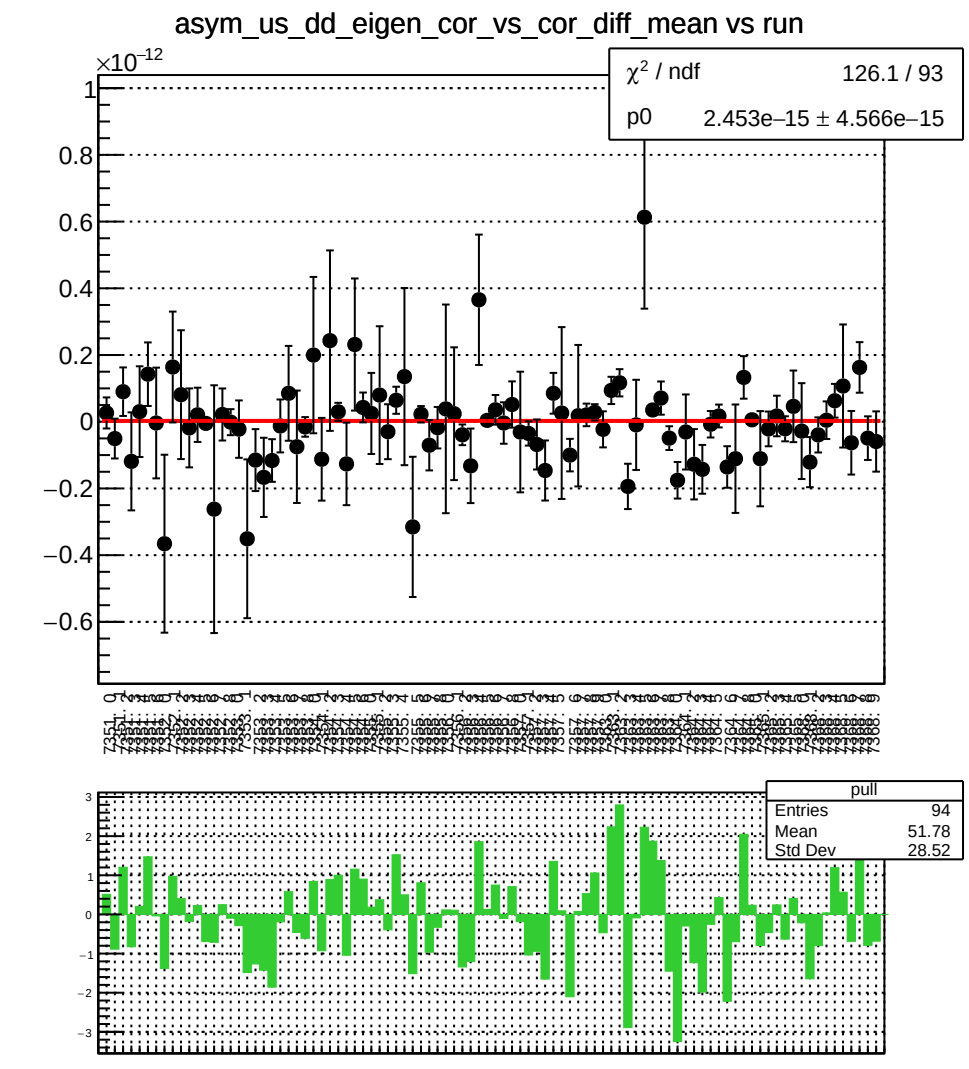

asym_us_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.5 / 93
p0 −0.1314 ± 0.07902
pull
Entries 94
Mean −2.606
Std Dev 0
pull1D
Entries 94
Mean 0.05931
Std Dev 1.037

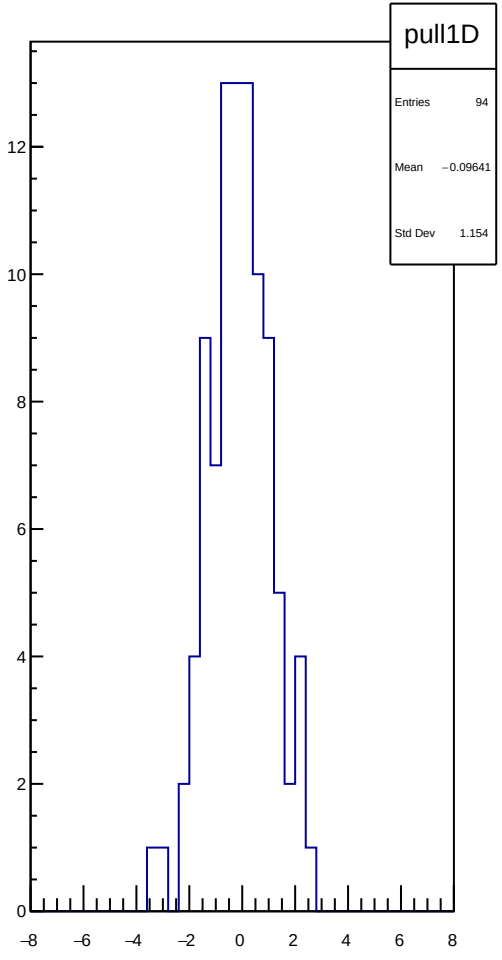

asym_us_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.978e+05 / 93
p0 71.14 ± 0.05588
250
200
150
100
50

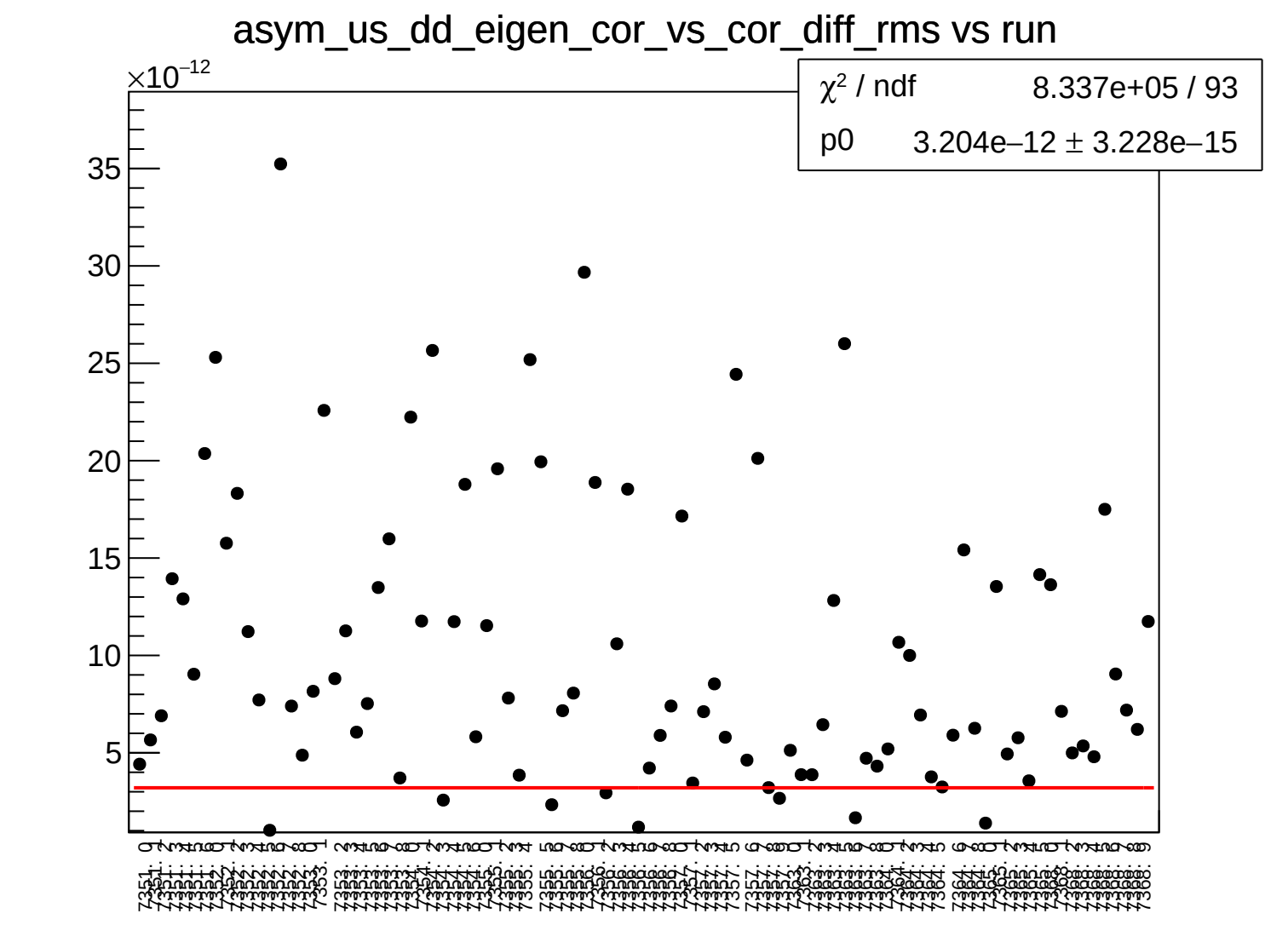

asym_us_dd_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 87.39 / 93
p0 −0.2085 ± 0.09771
pull
Entries 94
Mean 23.35
Std Dev 35.22

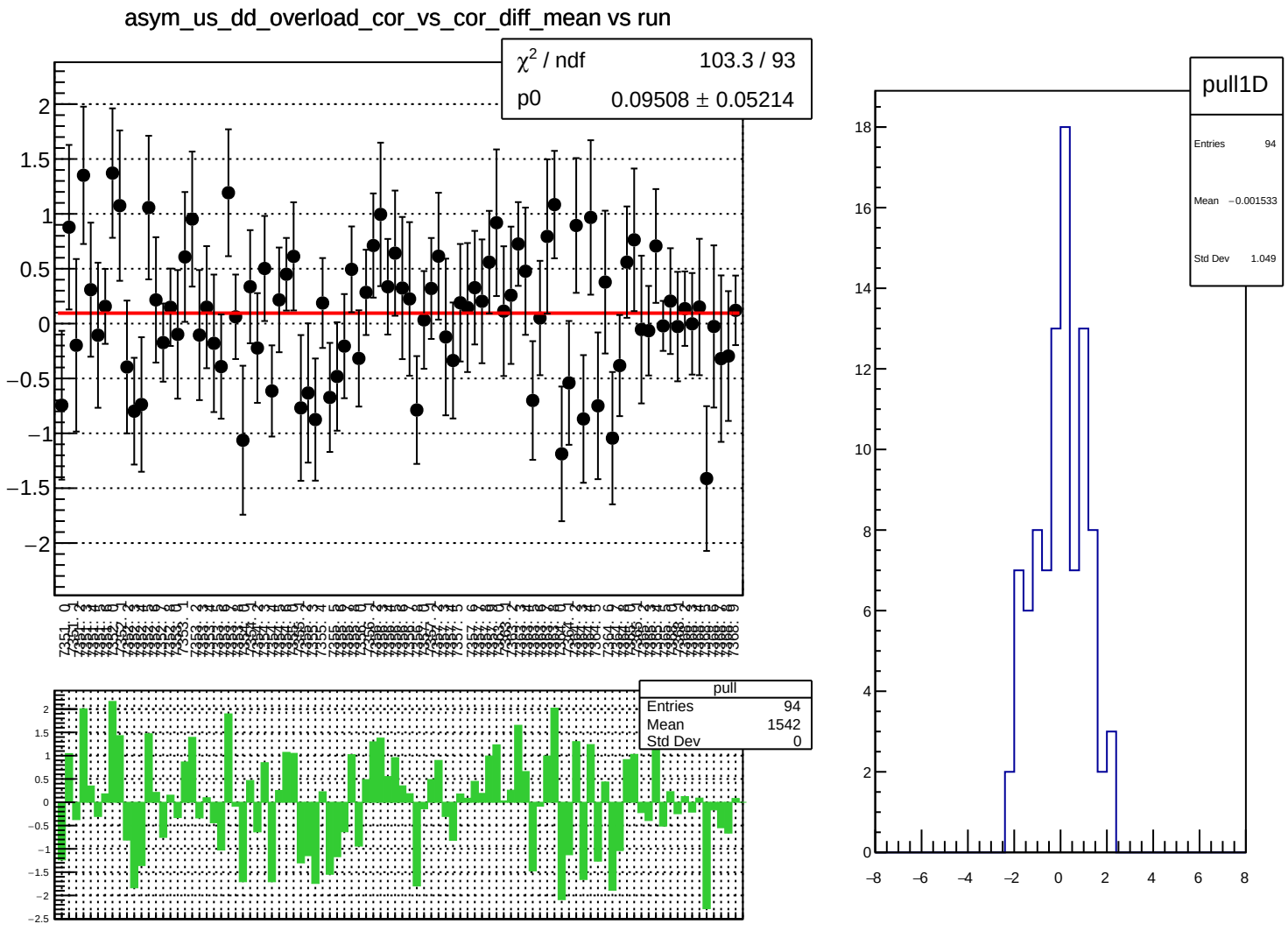

pull1D
Entries 94
Mean 0.03805
Std Dev 0.9635

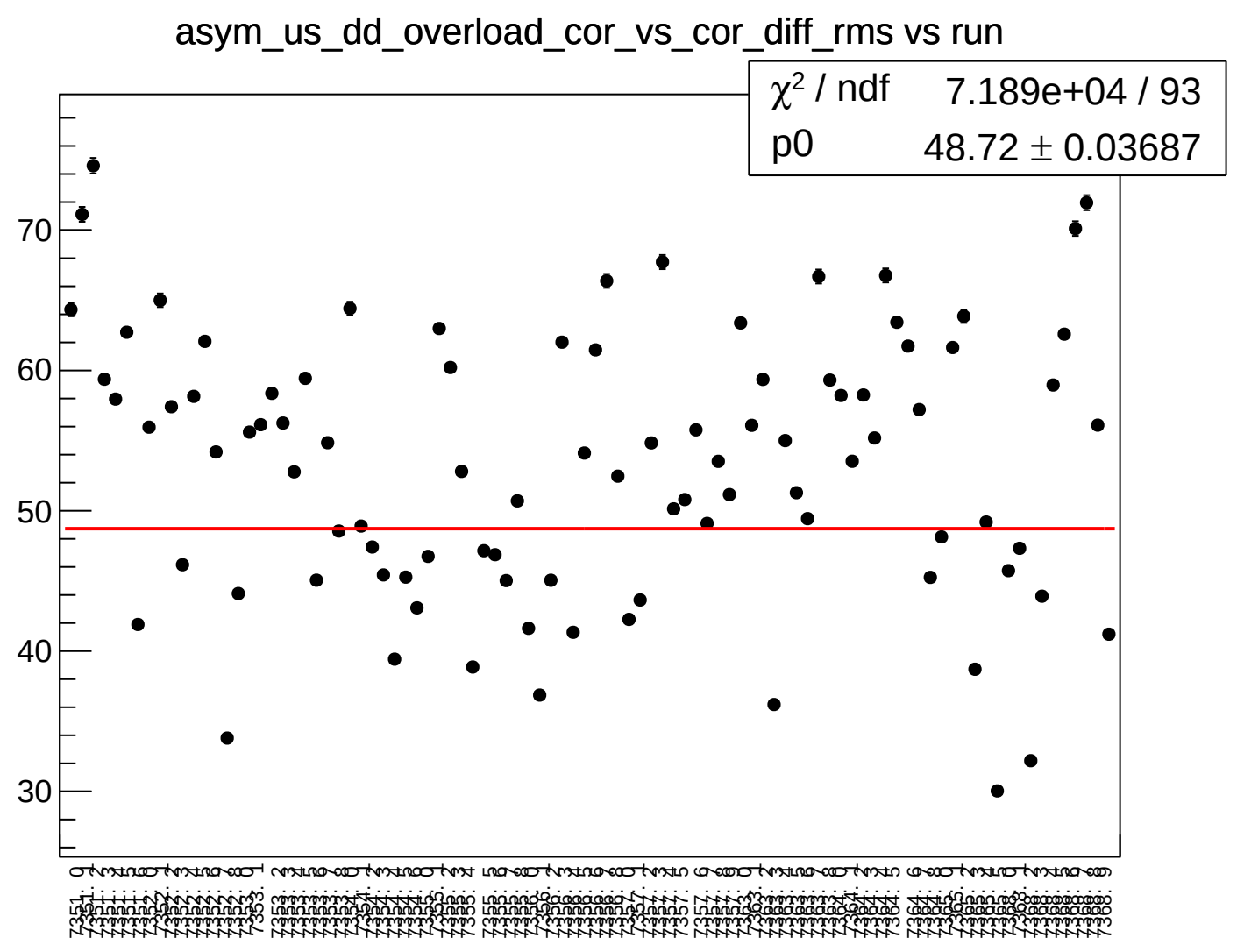

asym_us_dd_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.359e+05 / 93
p0 89.63 ± 0.06909
250
200
150
100
50


asym_us_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 126.1 / 93
p0 2.453e−15 ± 4.566e−15
pull
Entries 94
Mean 51.78
Std Dev 28.52

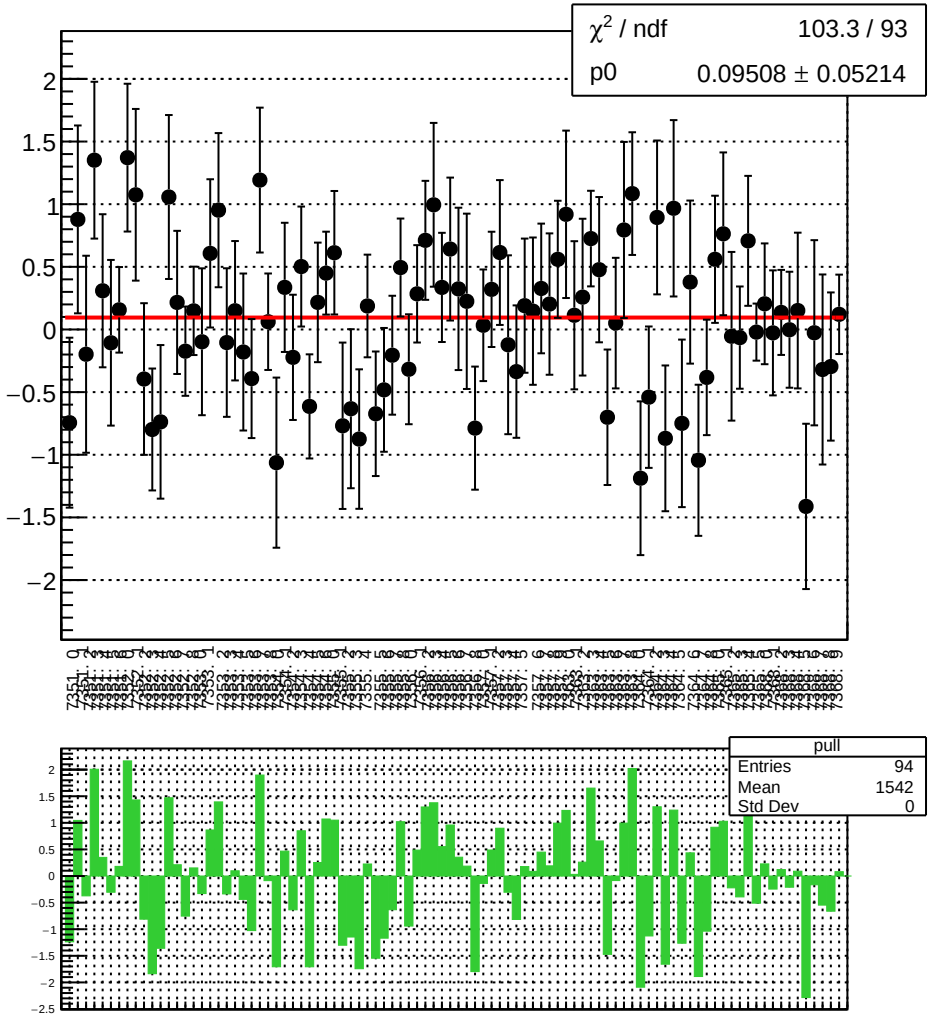

pull1D
Entries 94
Mean −0.09641
Std Dev 1.154

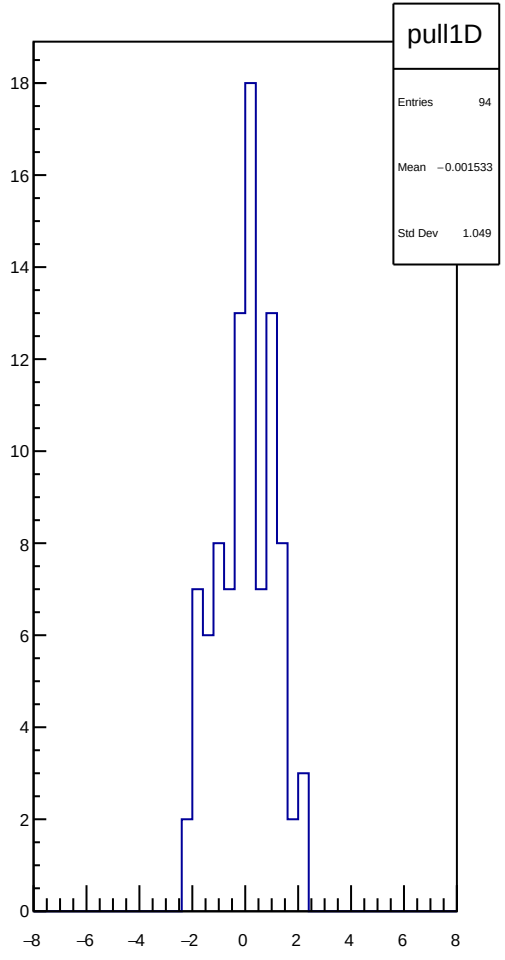

asym_us_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 8.337e+05 / 93
p0 3.204e−12 ± 3.228e−15
35
30
25
20
15
10
5

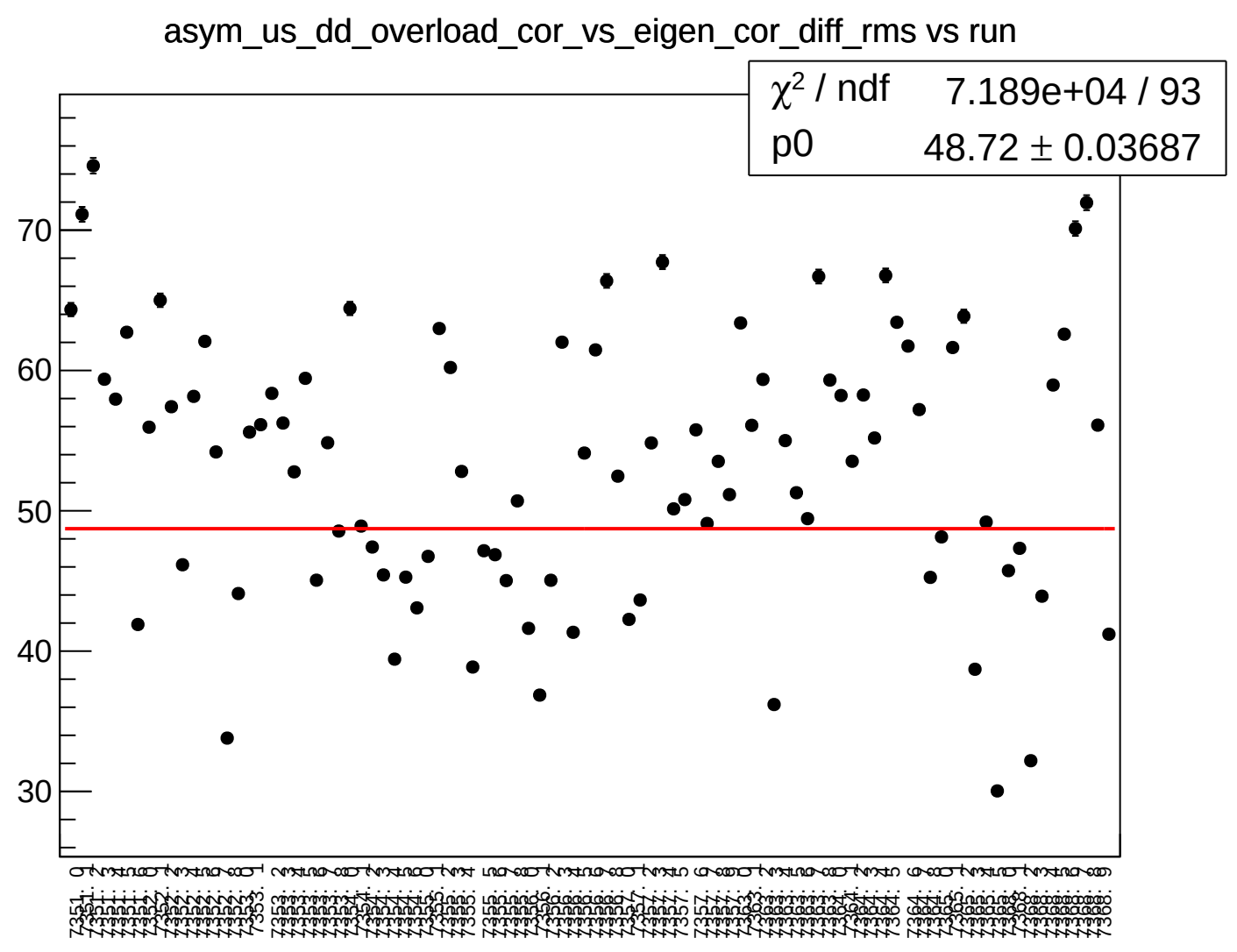

asym_us_dd_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 103.3 / 93
p0 0.09508 ± 0.05214
pull
Entries 94
Mean 1542
Std Dev 0
pull1D
Entries 94
Mean −0.001533
Std Dev 1.049

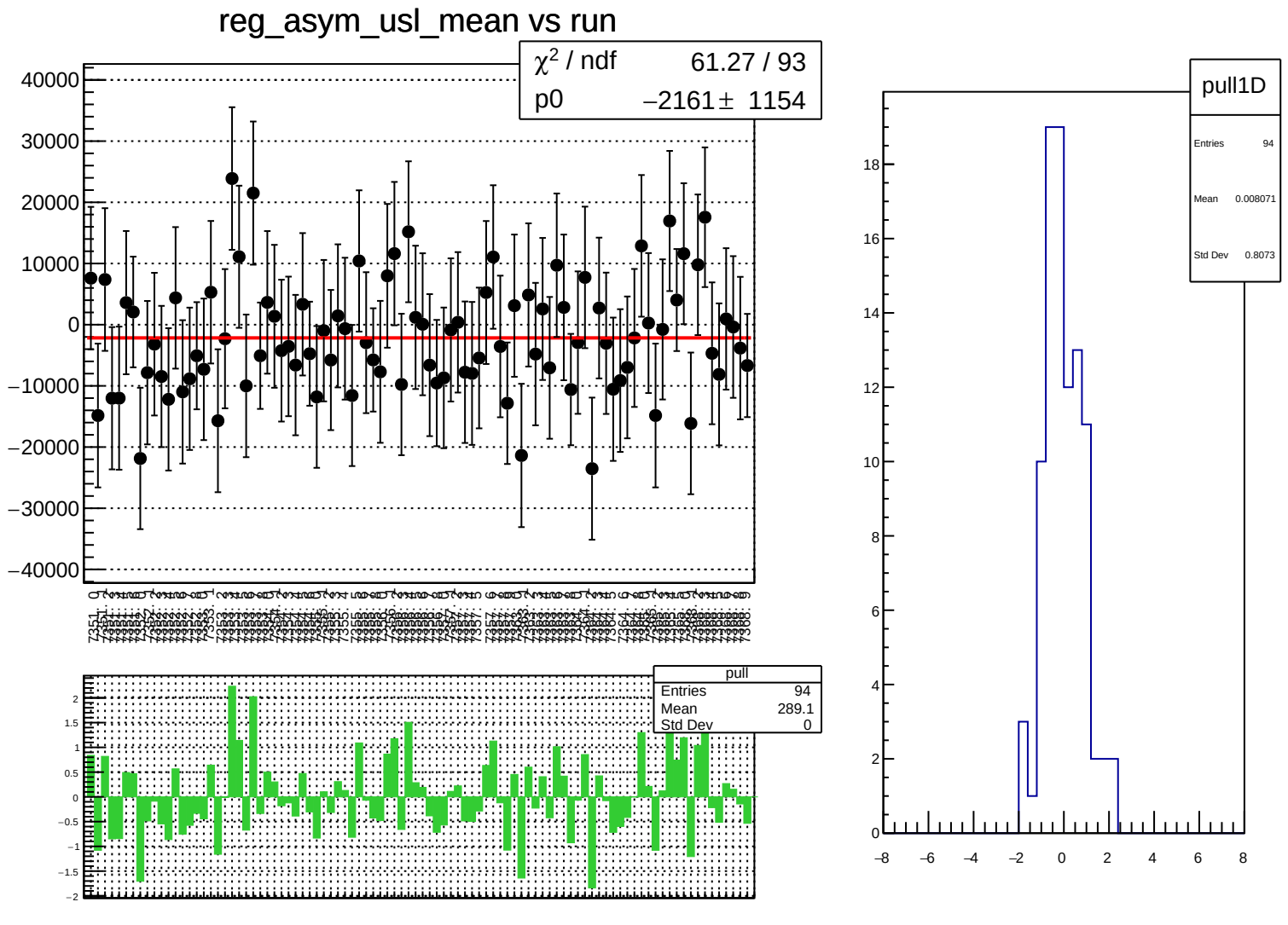

asym_us_dd_overload_cor_vs_cor_diff_rms vs run
χ^2 / ndf 7.189e+04 / 93
p0 48.72 ± 0.03687
70
60
50
40
30

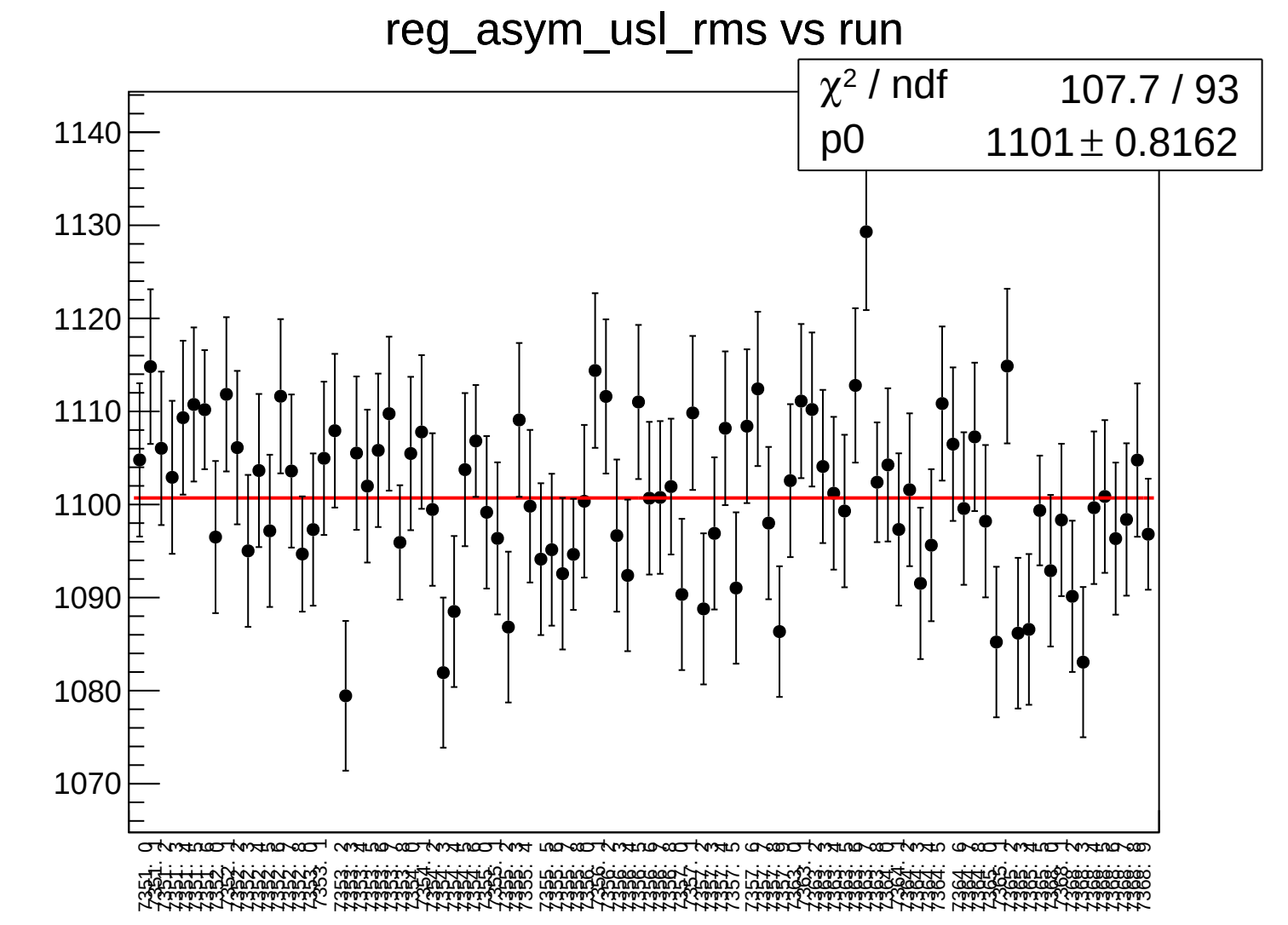
asym_us_dd_overload_cor_vs_eigen_cor_diff_mean vs run

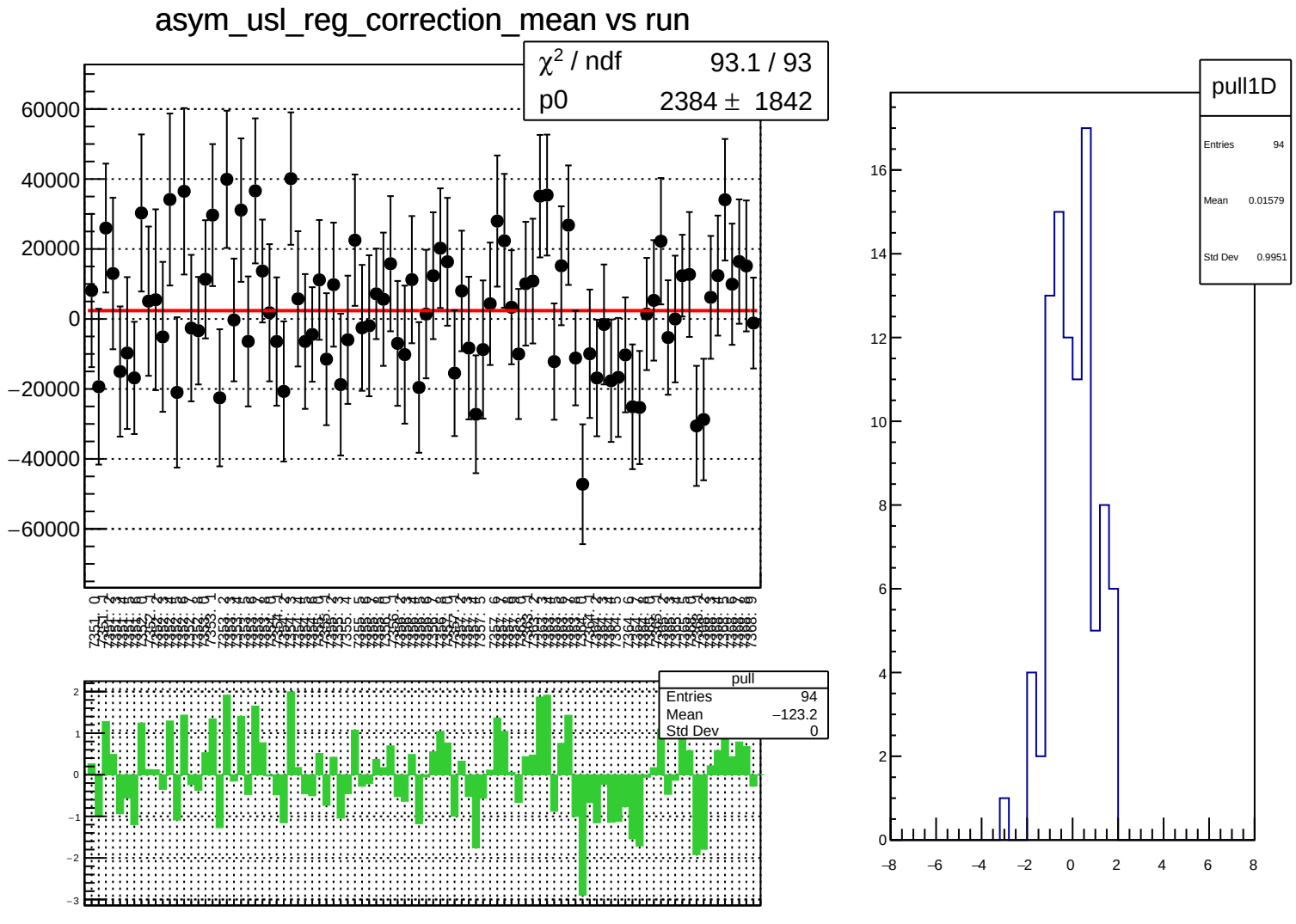




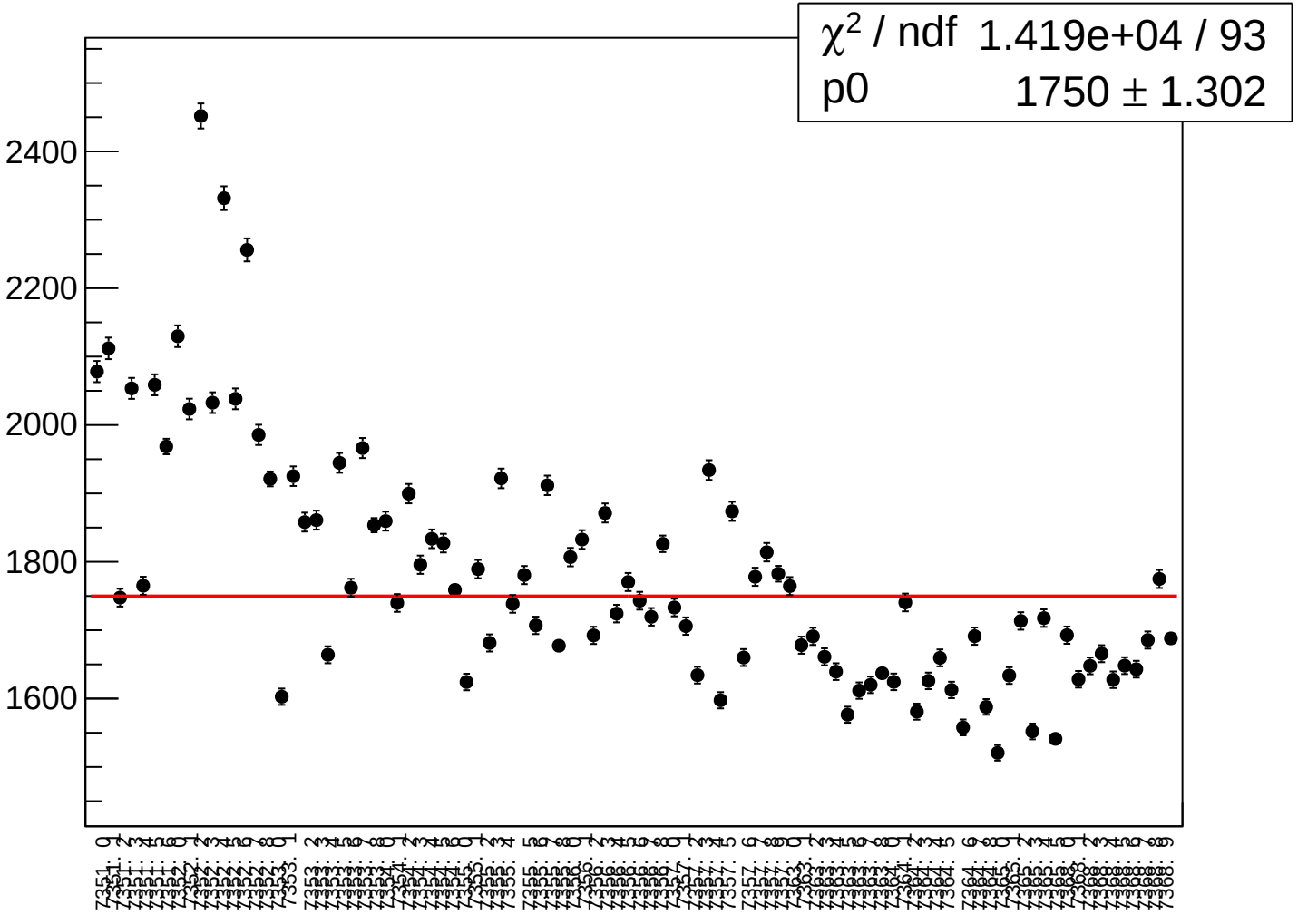

asym_us_dd_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.189e+04 / 93
p0 48.72 ± 0.03687
70
60
50
40
30

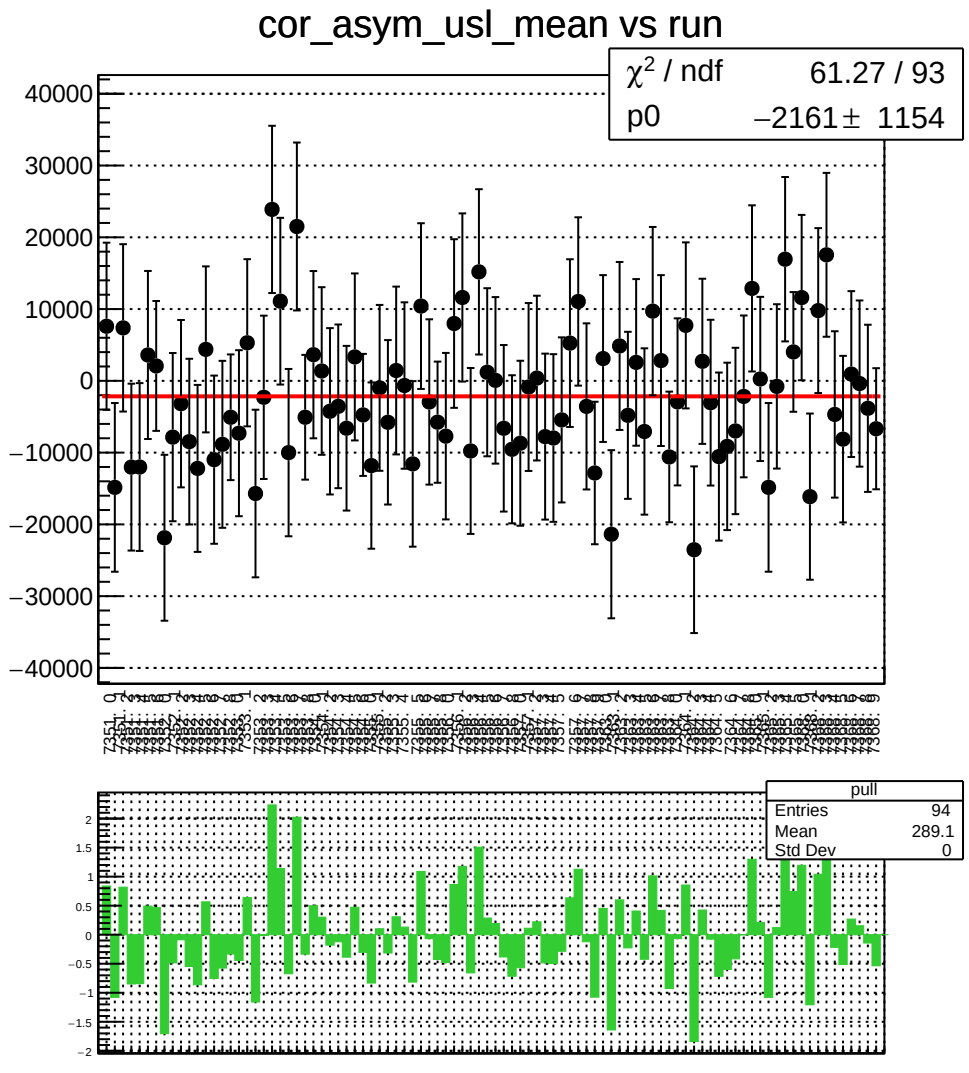

reg_asym_usl_mean vs run
χ² / ndf 61.27 / 93
p0 −2161 ± 1154
pull
Entries 94
Mean 289.1
Std Dev 0
pull1D
Entries 94
Mean 0.008071
Std Dev 0.8073

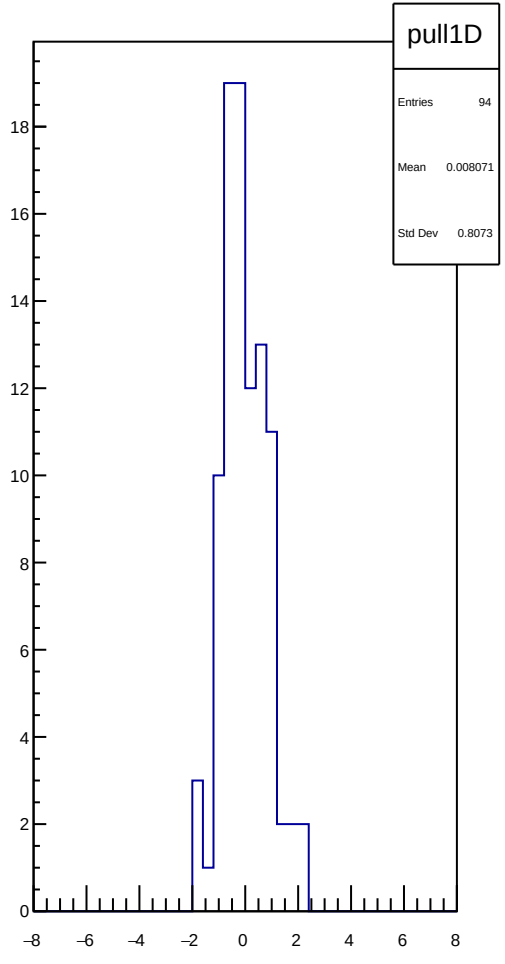

reg_asym_usl_rms vs run
χ² / ndf 107.7 / 93
p0 1101 ± 0.8162
1140
1130
1120
1110
1100
1090
1080
1070

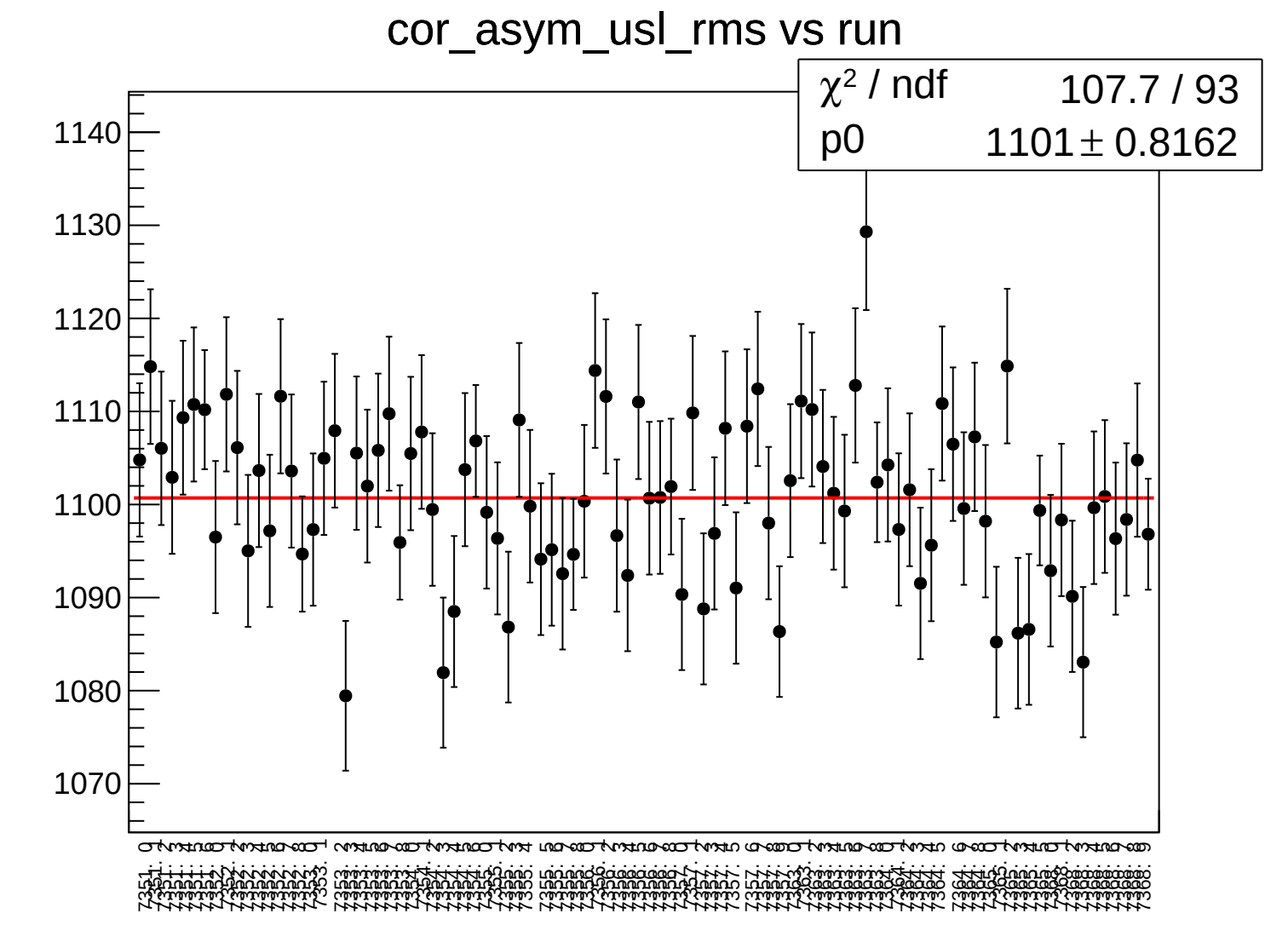

asym_usl_reg_correction_mean vs run
χ² / ndf 93.1 / 93
p0 2384 ± 1842
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −123.2
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.01579
Std Dev 0.9951
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

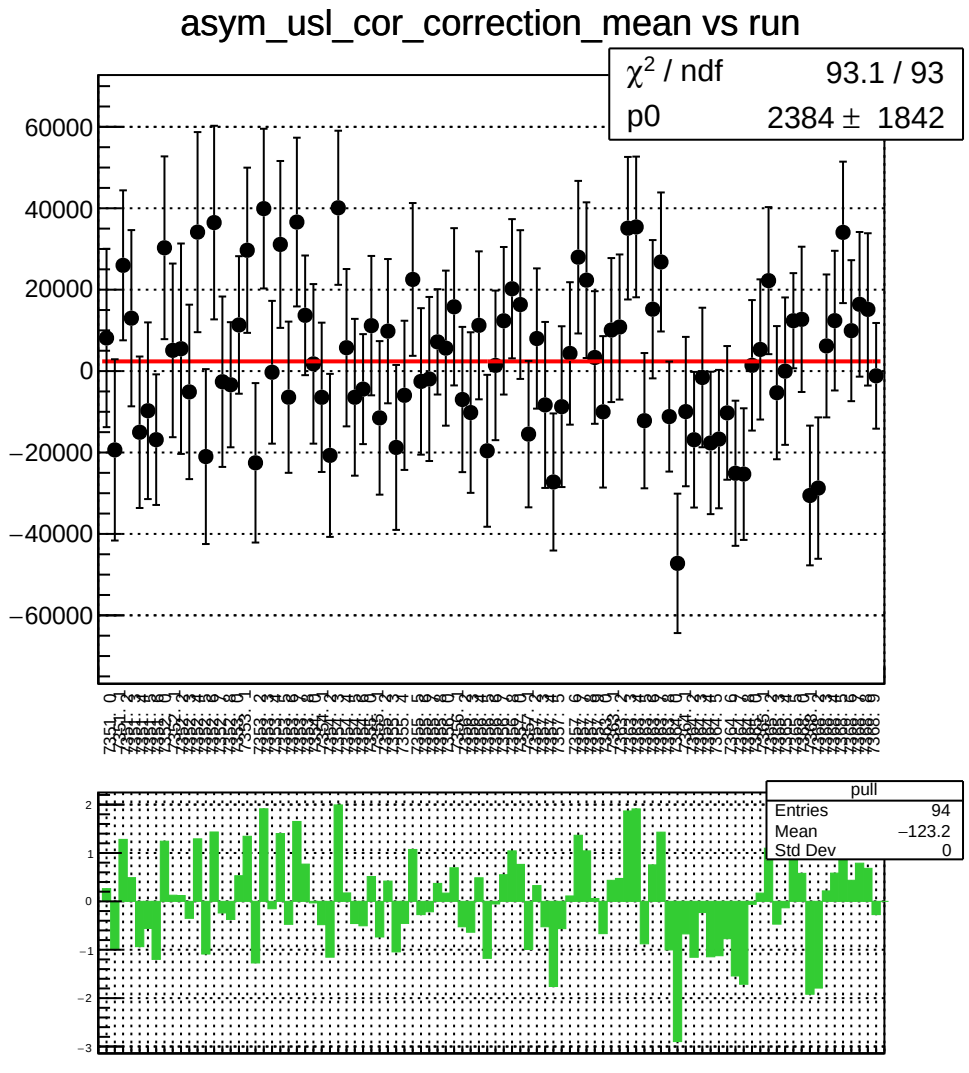
asym_usl_reg_correction_rms vs run

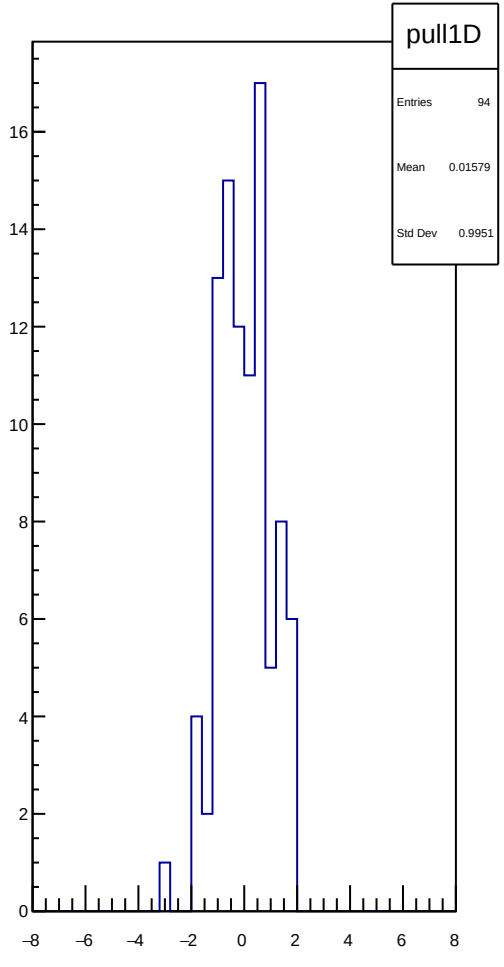


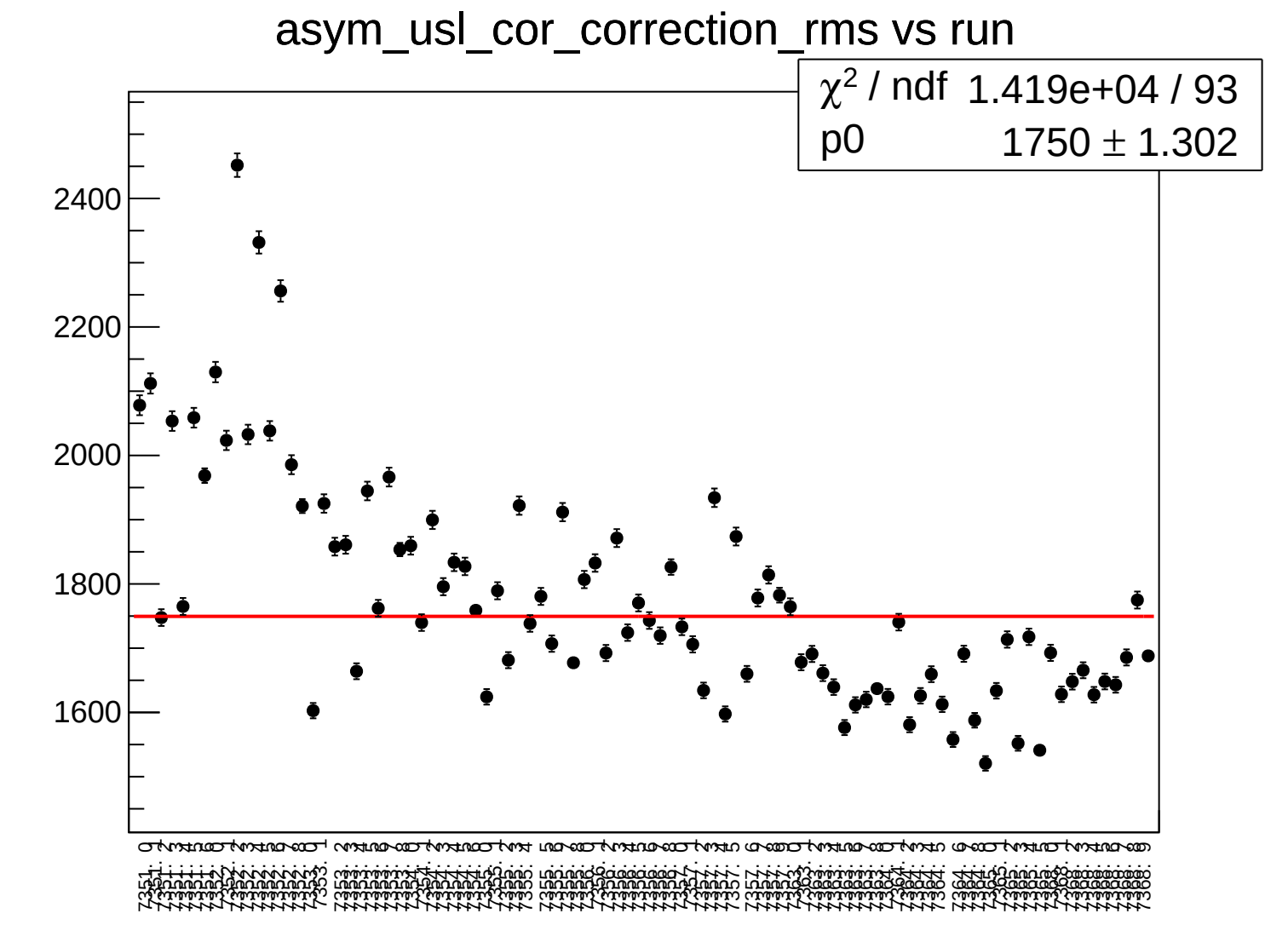

cor_asym_usl_mean vs run
χ² / ndf 61.27 / 93
p0 −2161 ± 1154
pull
Entries 94
Mean 289.1
Std Dev 0

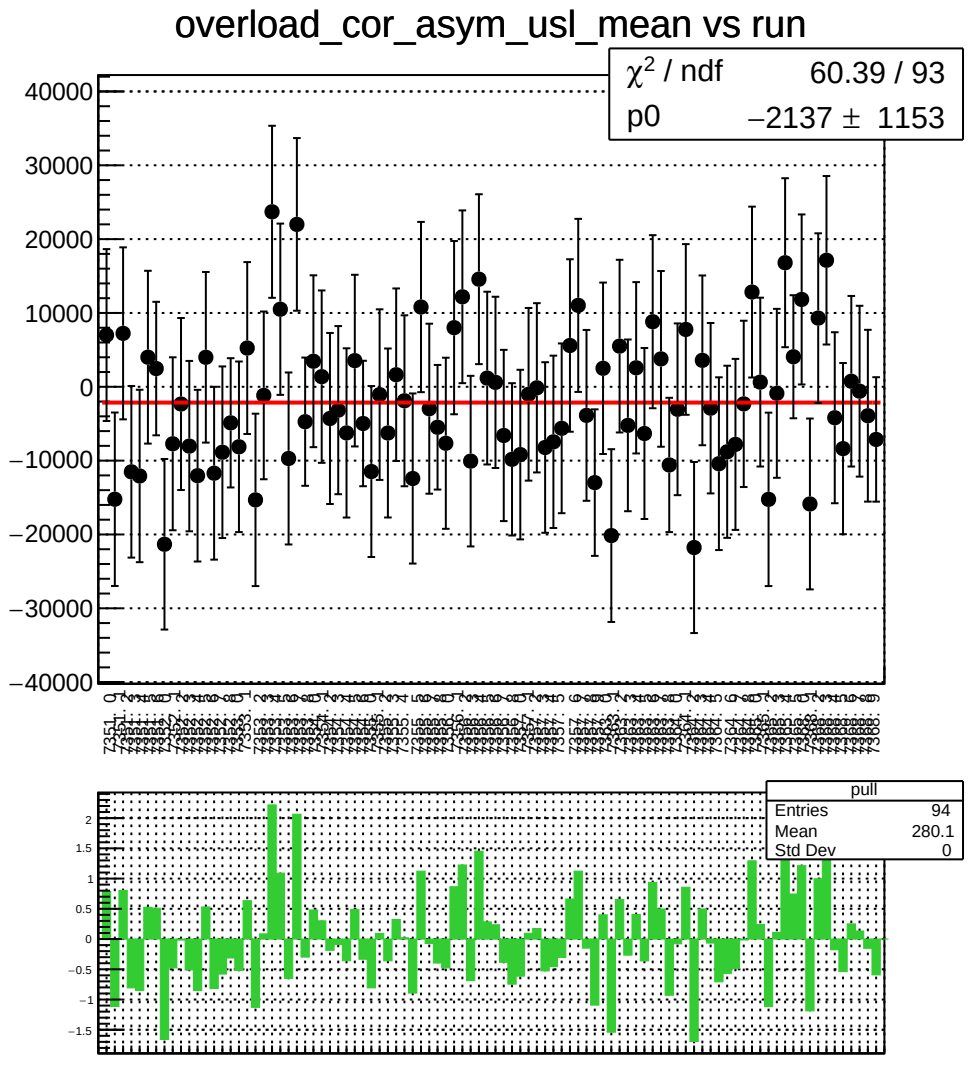

pull1D
Entries 94
Mean 0.008071
Std Dev 0.8073

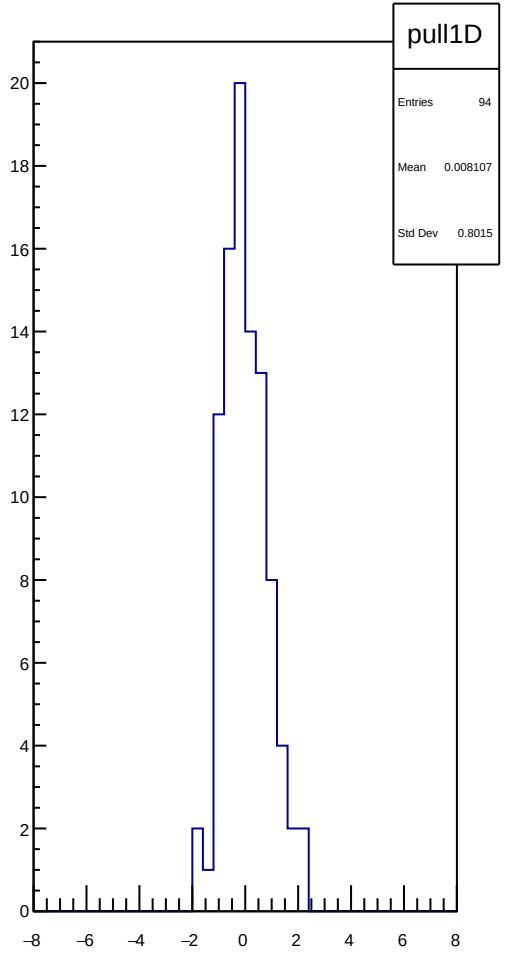

cor_asym_usl_rms vs run
χ² / ndf 107.7 / 93
p0 1101 ± 0.8162
1140
1130
1120
1110
1100
1090
1080
1070

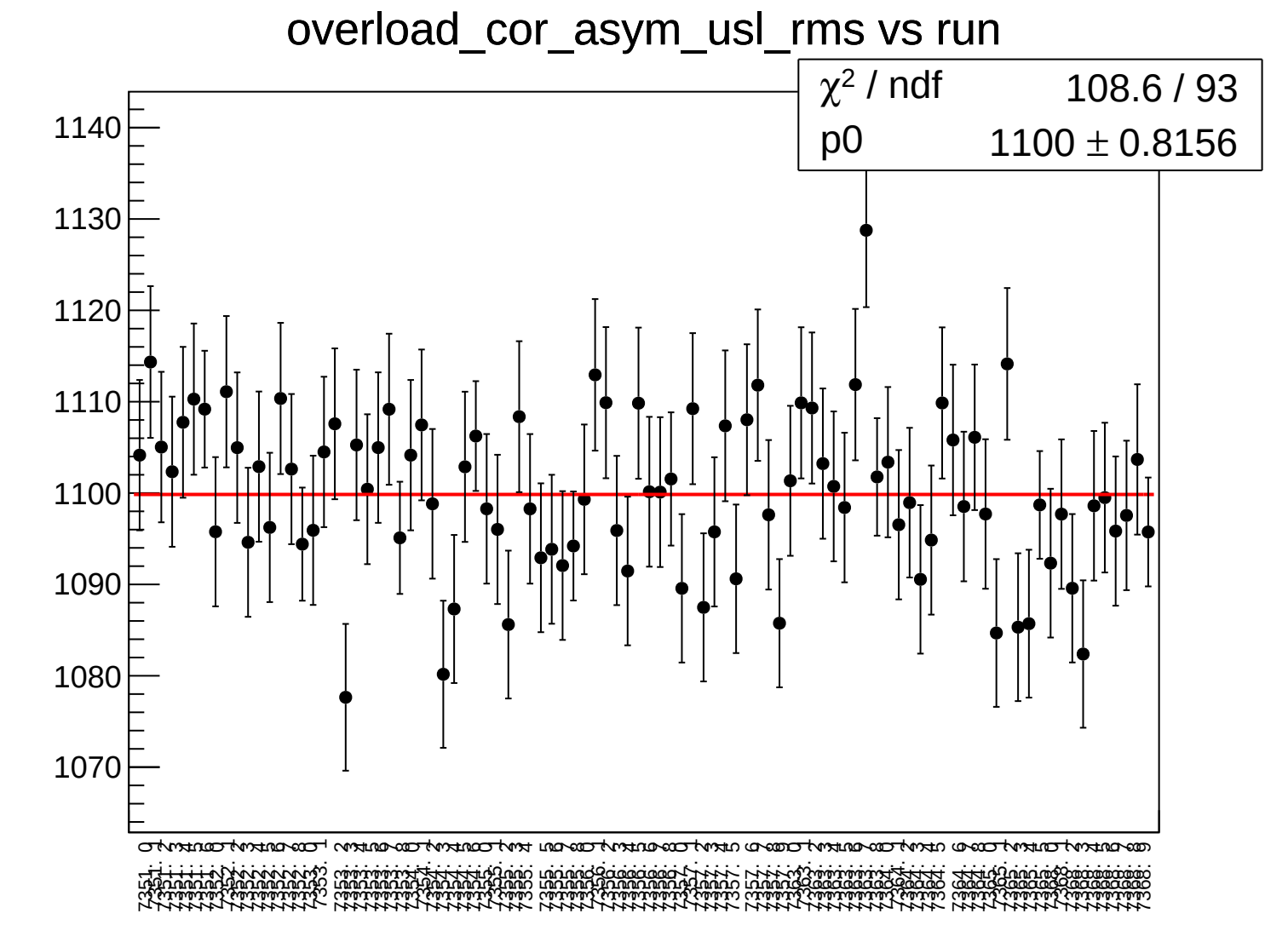

asym_usl_cor_correction_mean vs run
χ² / ndf 93.1 / 93
p0 2384 ± 1842
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −123.2
Std Dev 0
2
1
0
−1
−2
−3

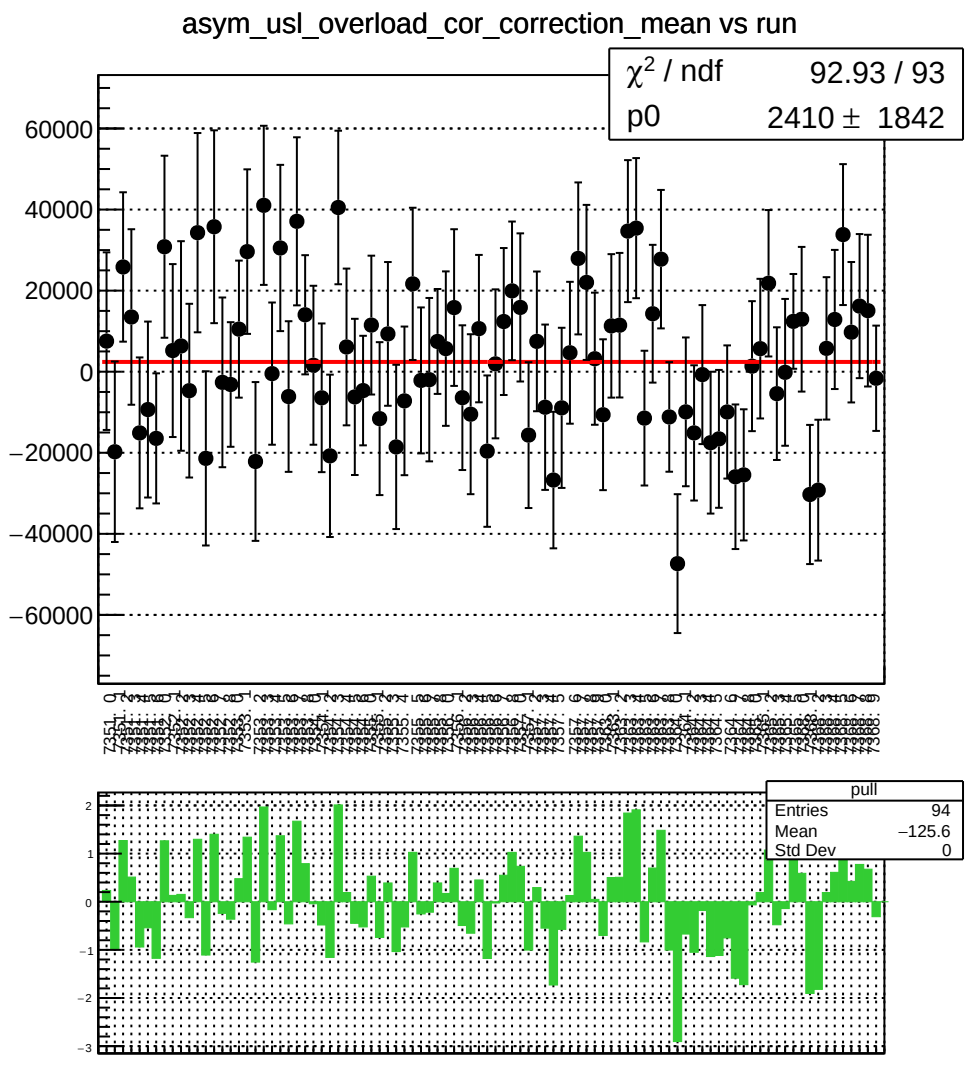

pull1D
Entries 94
Mean 0.01579
Std Dev 0.9951
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

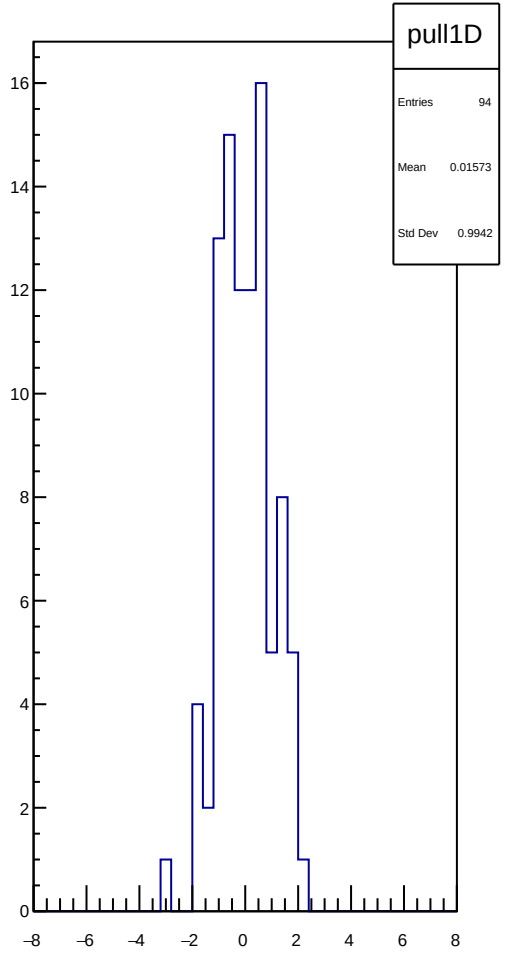

asym_usl_cor_correction_rms vs run
χ² / ndf 1.419e+04 / 93
p0 1750 ± 1.302
2400
2200
2000
1800
1600

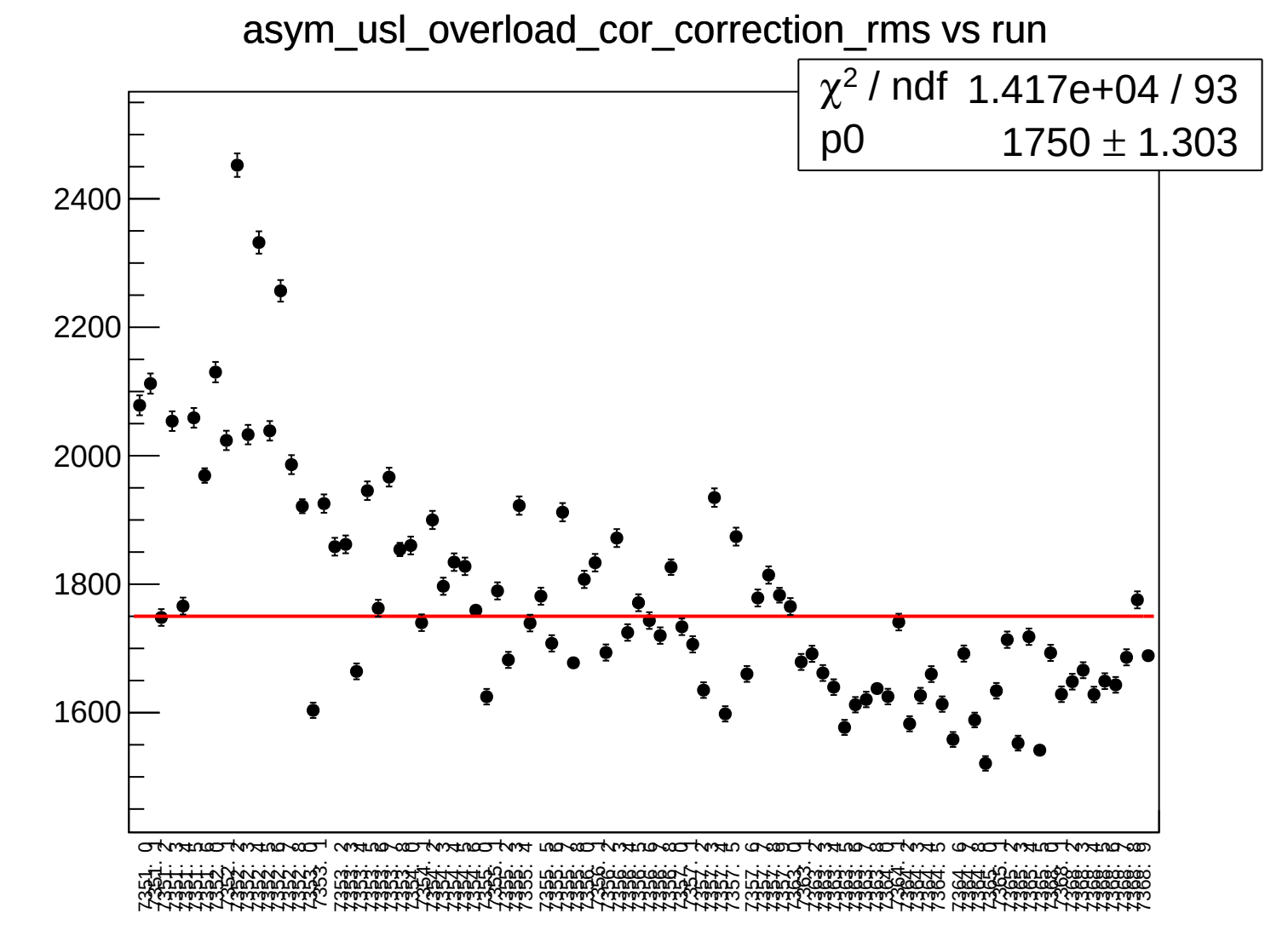

overload_cor_asym_usl_mean vs run
χ² / ndf 60.39 / 93
p0 −2137 ± 1153
pull
Entries 94
Mean 280.1
Std Dev 0

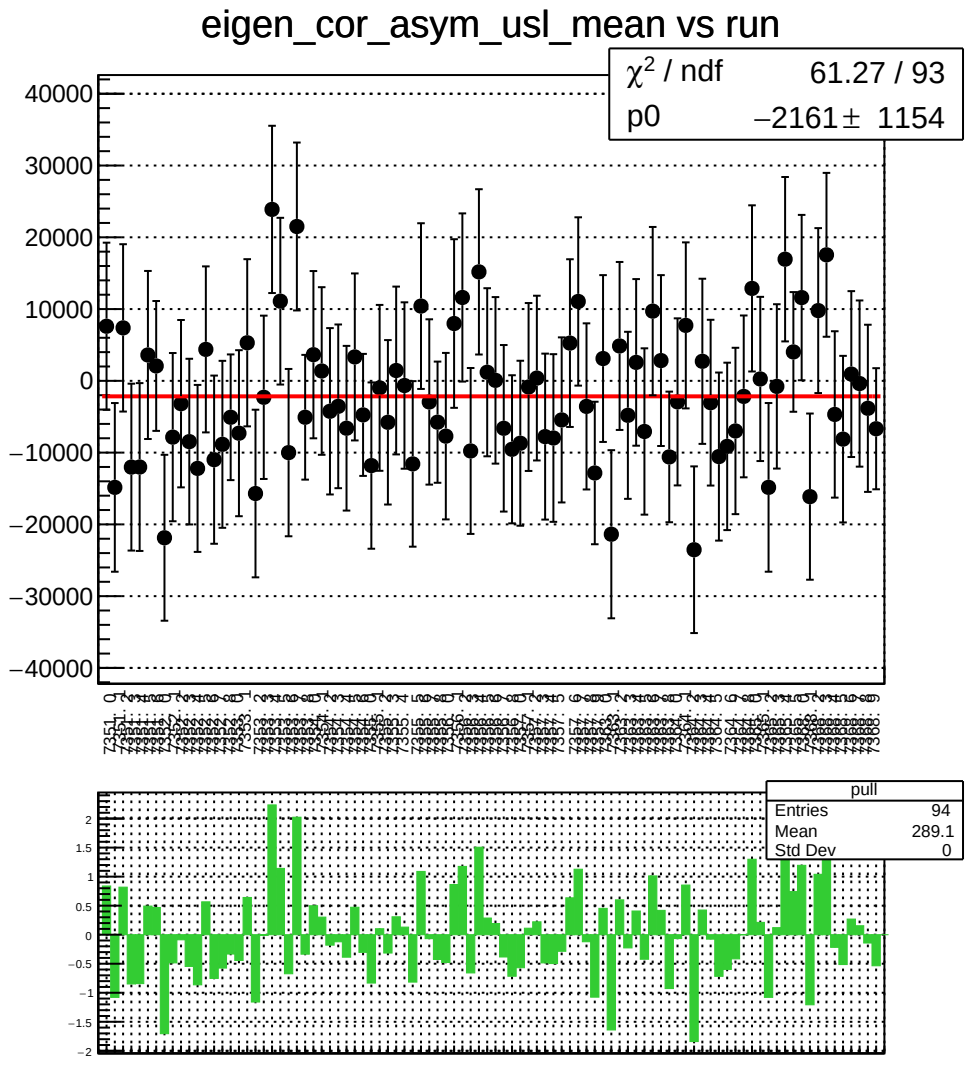

pull1D
Entries 94
Mean 0.008107
Std Dev 0.8015

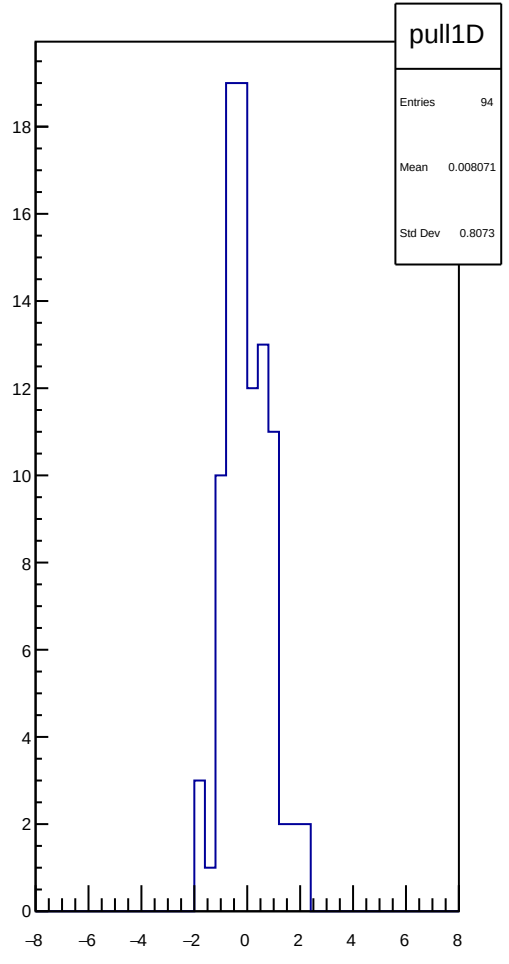

overload_cor_asym_usl_rms vs run
χ² / ndf 108.6 / 93
p0 1100 ± 0.8156
1140
1130
1120
1110
1100
1090
1080
1070

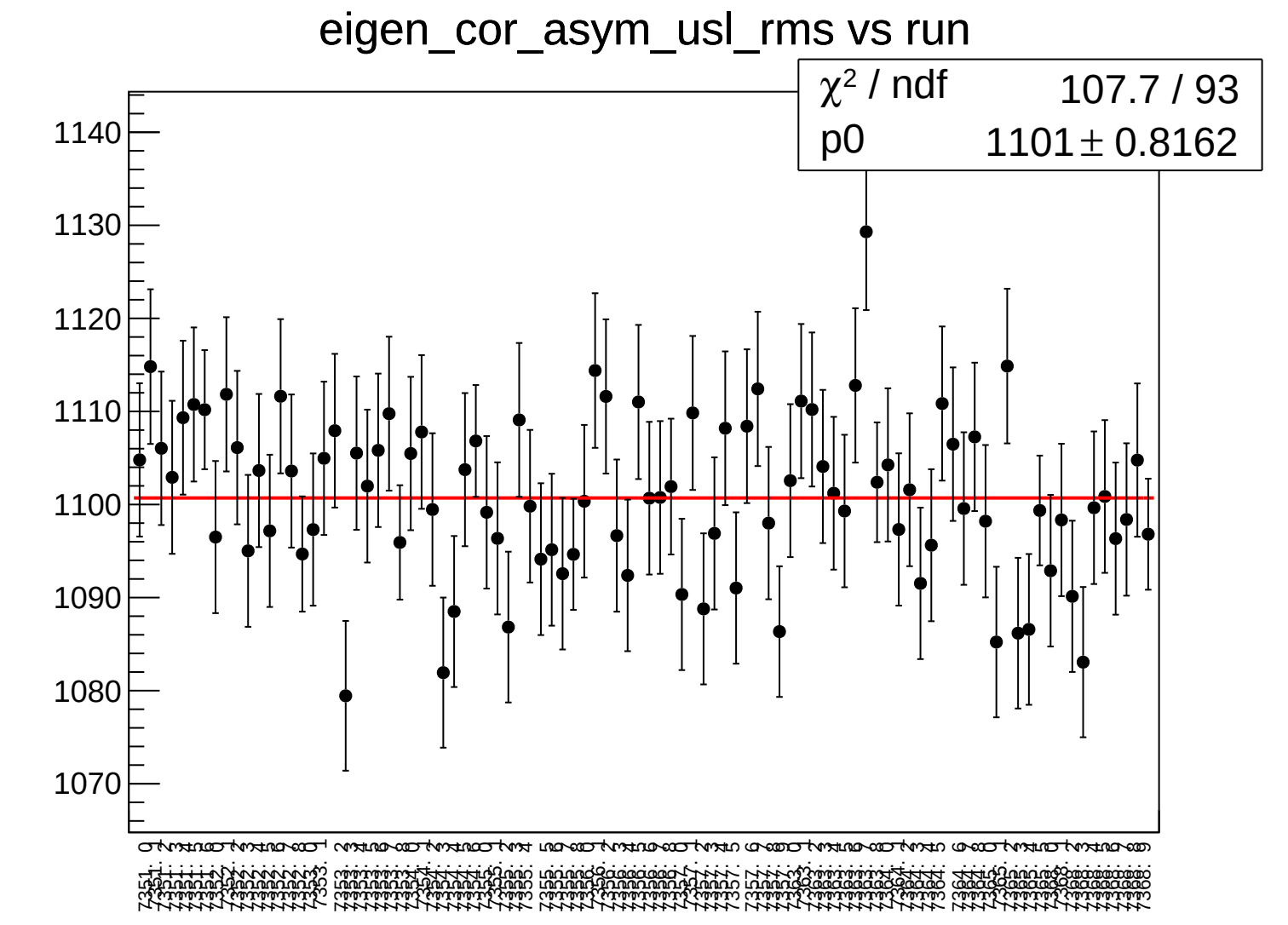

asym_usl_overload_cor_correction_mean vs run
χ² / ndf 92.93 / 93
p0 2410 ± 1842
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −125.6
Std Dev 0
2
1
0
−1
−2
−3

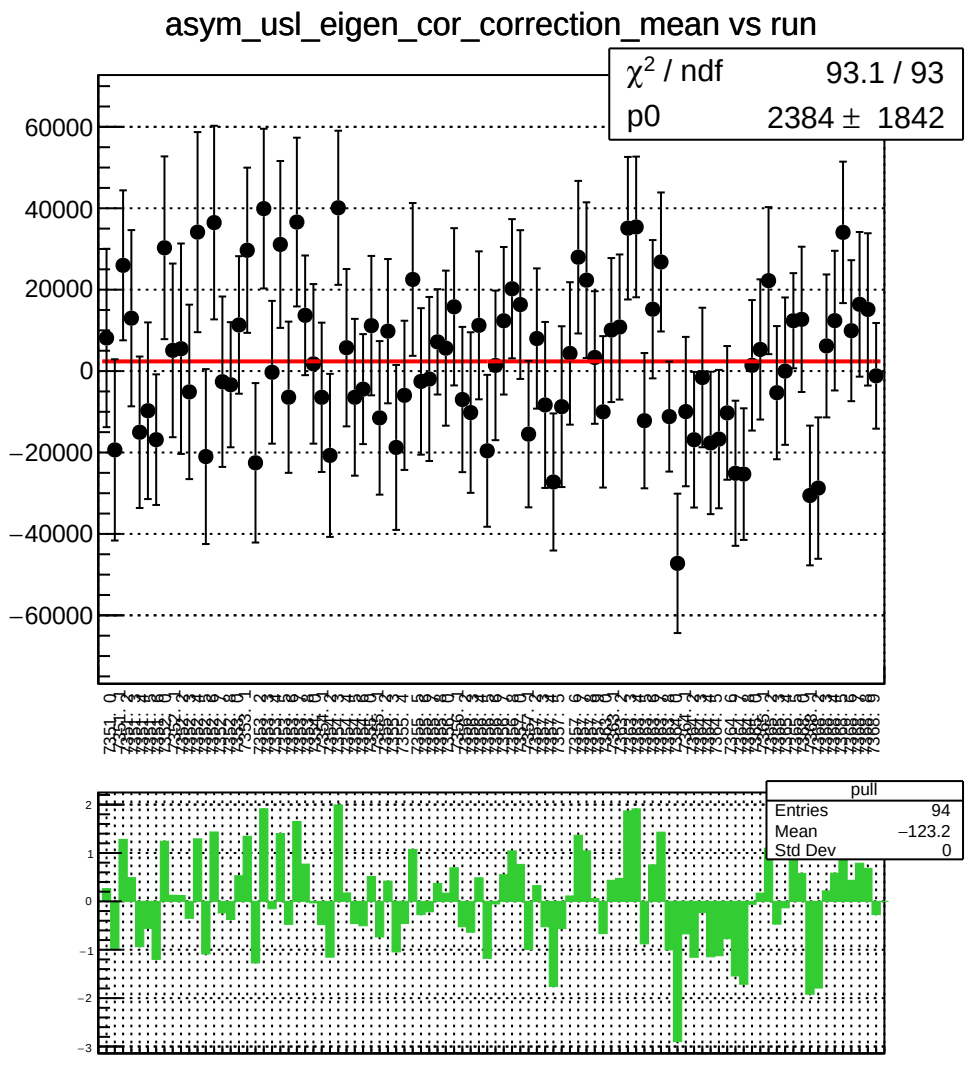

pull1D
Entries 94
Mean 0.01573
Std Dev 0.9942
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

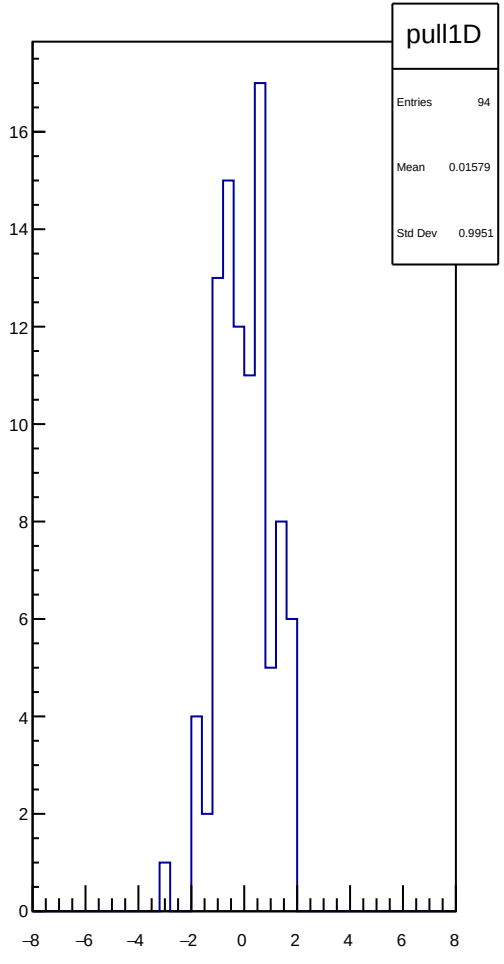

asym_usl_overload_cor_correction_rms vs run
χ² / ndf 1.417e+04 / 93
p0 1750 ± 1.303
2400
2200
2000
1800
1600

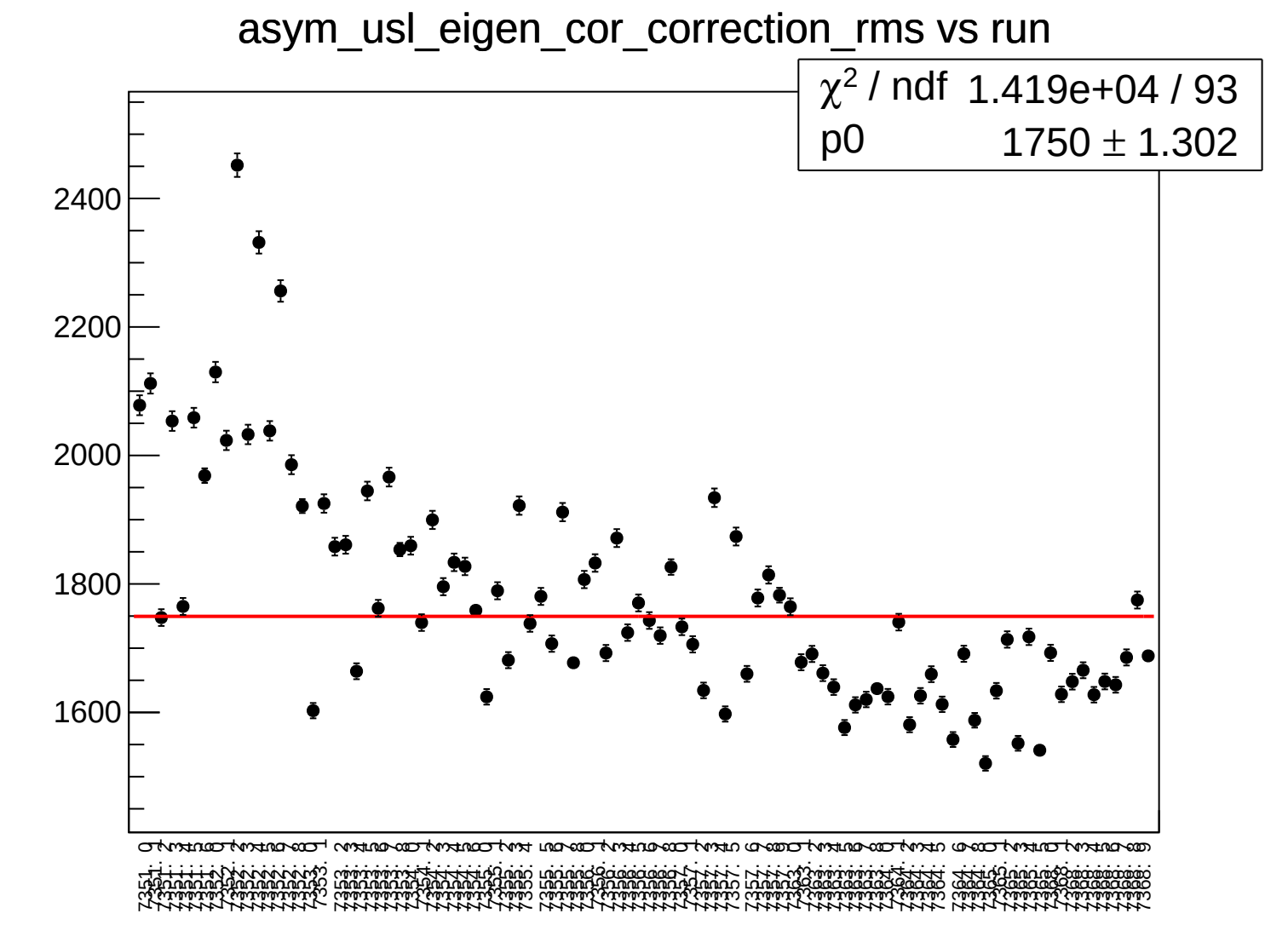

eigen_cor_asym_usl_mean vs run
χ² / ndf 61.27 / 93
p0 −2161 ± 1154
pull
Entries 94
Mean 289.1
Std Dev 0

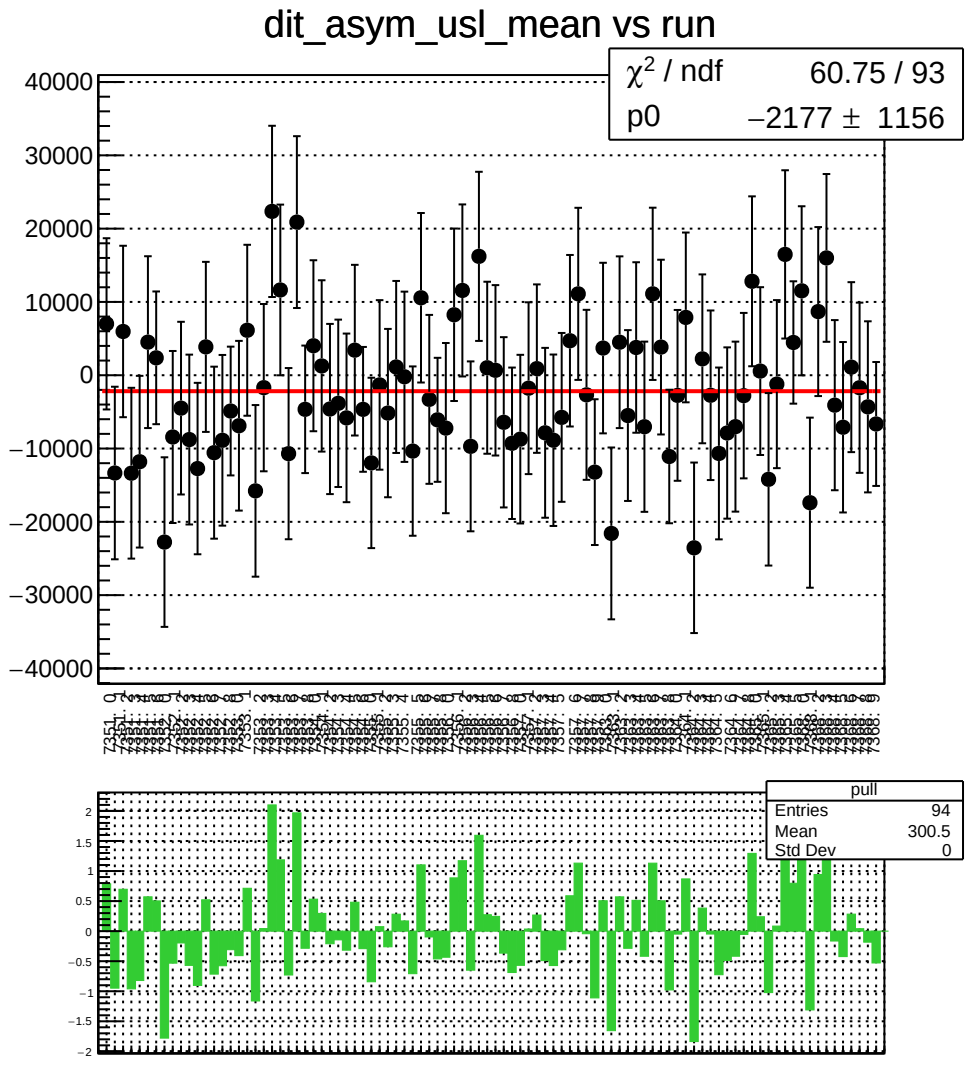

pull1D
Entries 94
Mean 0.008071
Std Dev 0.8073

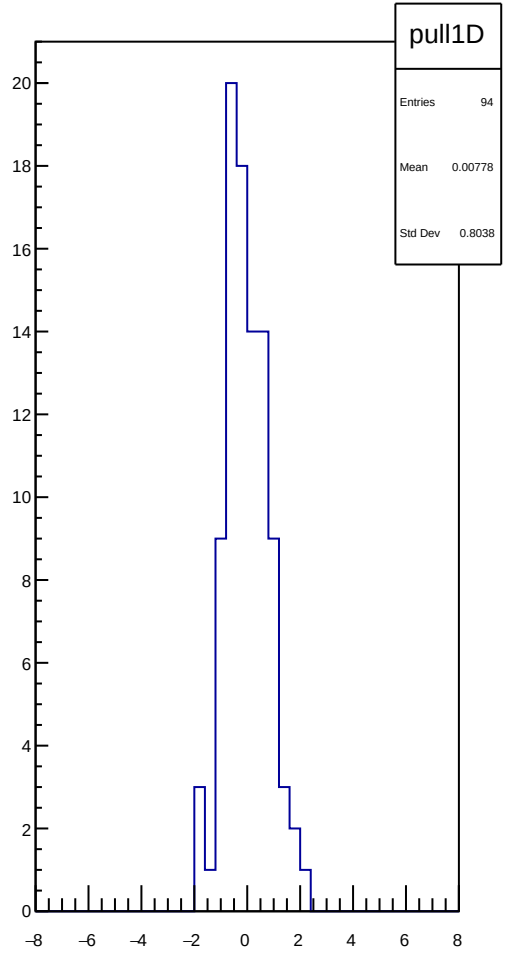

eigen_cor_asym_usl_rms vs run
χ² / ndf 107.7 / 93
p0 1101 ± 0.8162
1140
1130
1120
1110
1100
1090
1080
1070

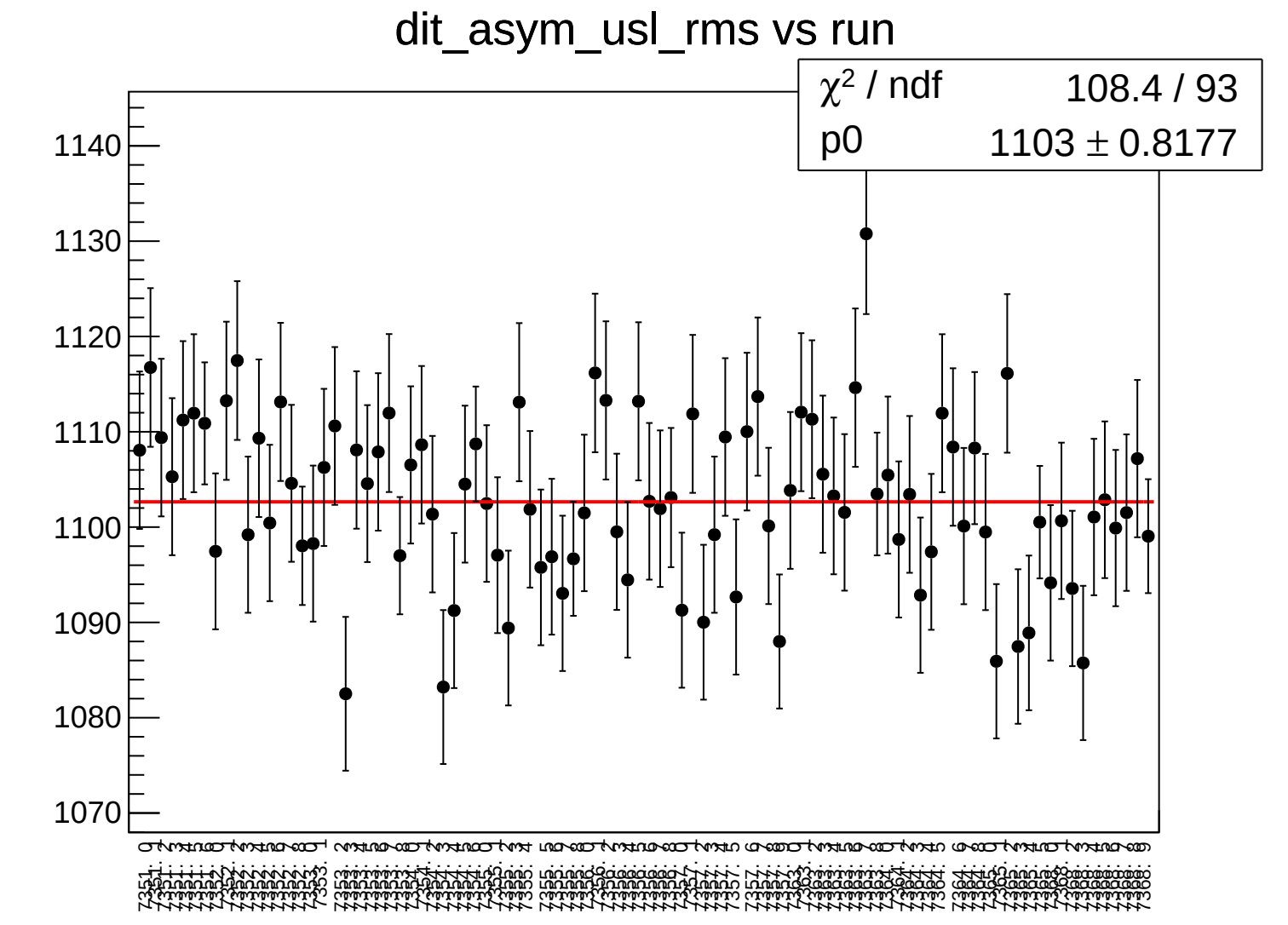

asym_usl_eigen_cor_correction_mean vs run
χ^2 / ndf 93.1 / 93
p0 2384 ± 1842
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −123.2
Std Dev 0
2
1
0
−1
−2
−3

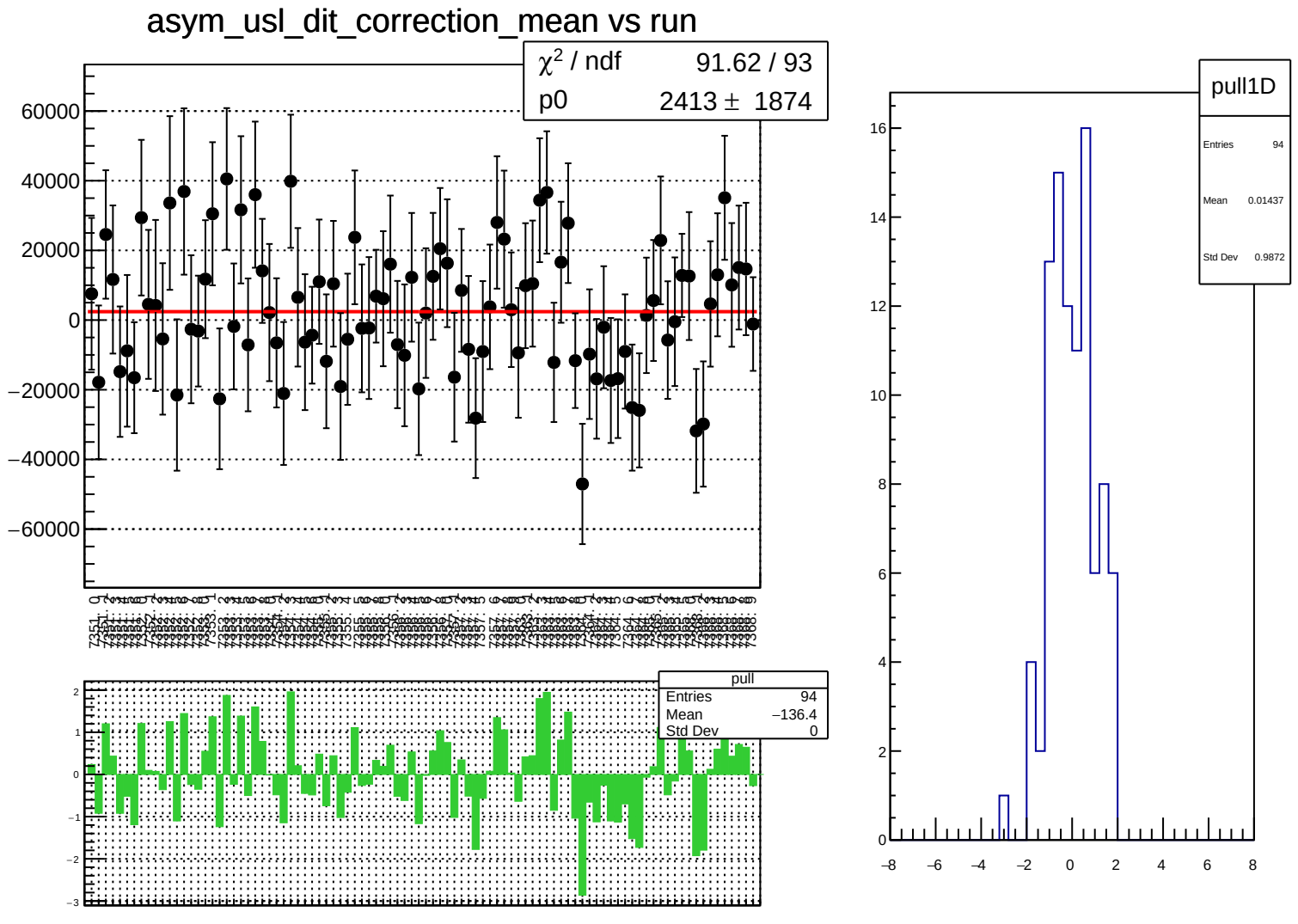

pull1D
Entries 94
Mean 0.01579
Std Dev 0.9951
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

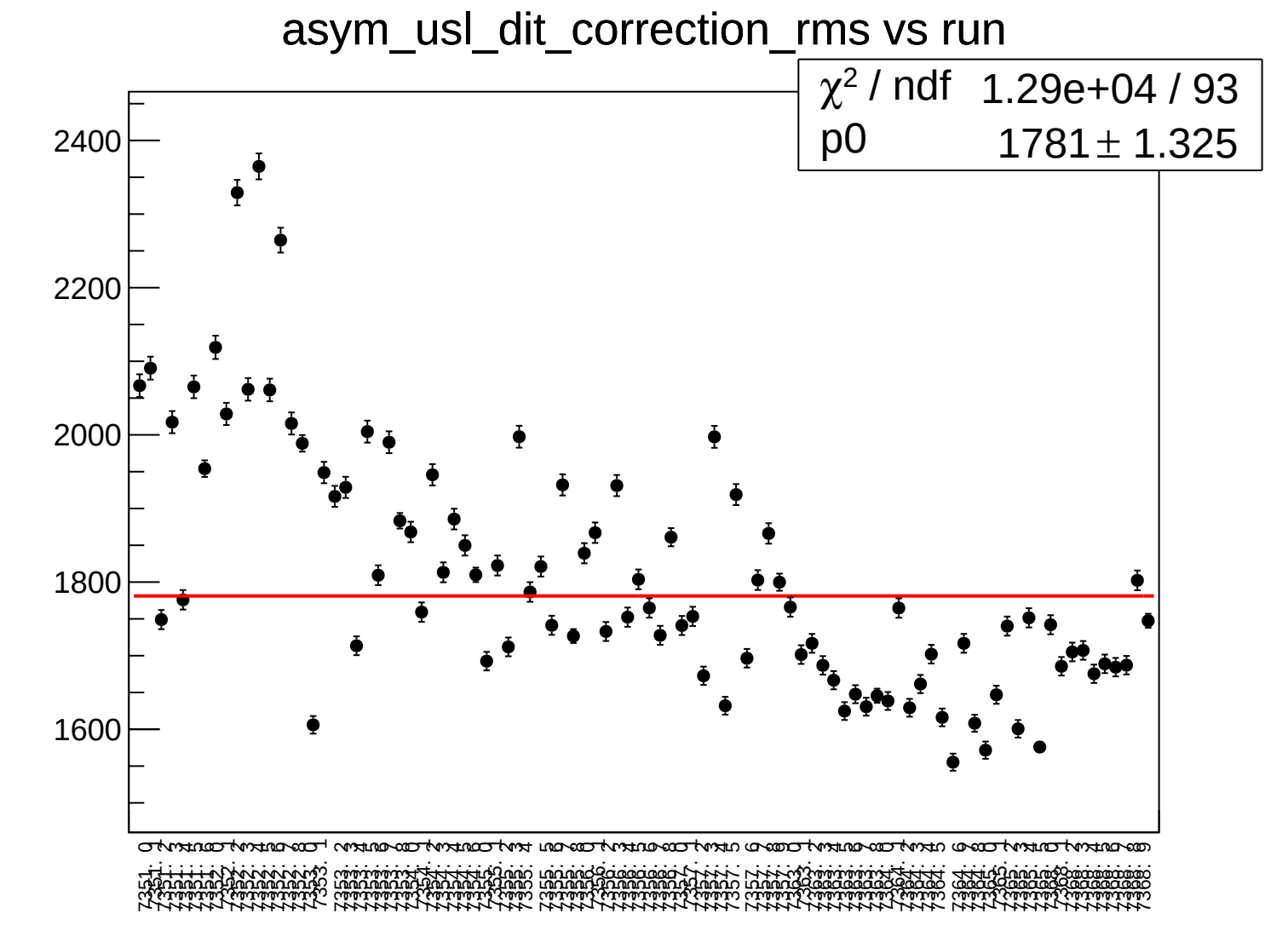

asym_usl_eigen_cor_correction_rms vs run
χ² / ndf 1.419e+04 / 93
p0 1750 ± 1.302
2400
2200
2000
1800
1600

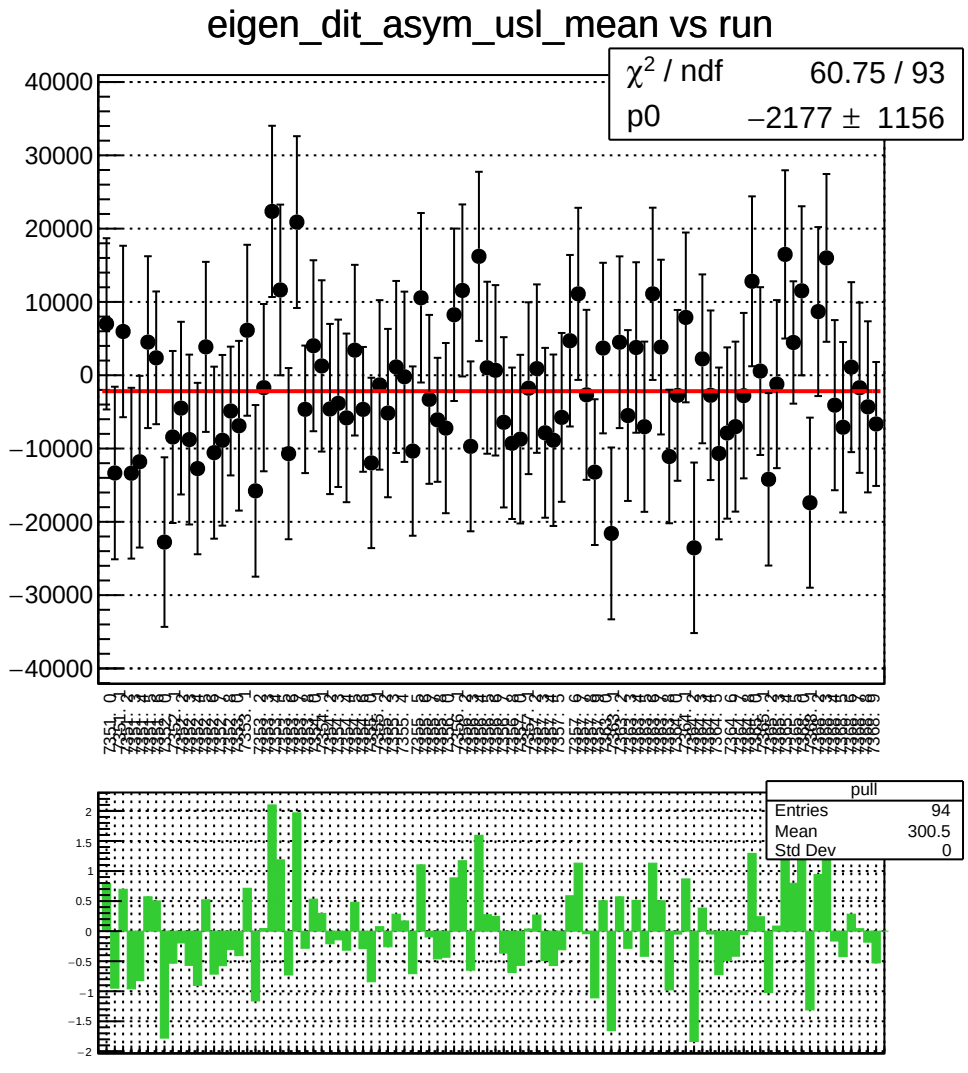

dit_asym_usl_mean vs run
χ² / ndf 60.75 / 93
p0 −2177 ± 1156
pull
Entries 94
Mean 300.5
Std Dev 0

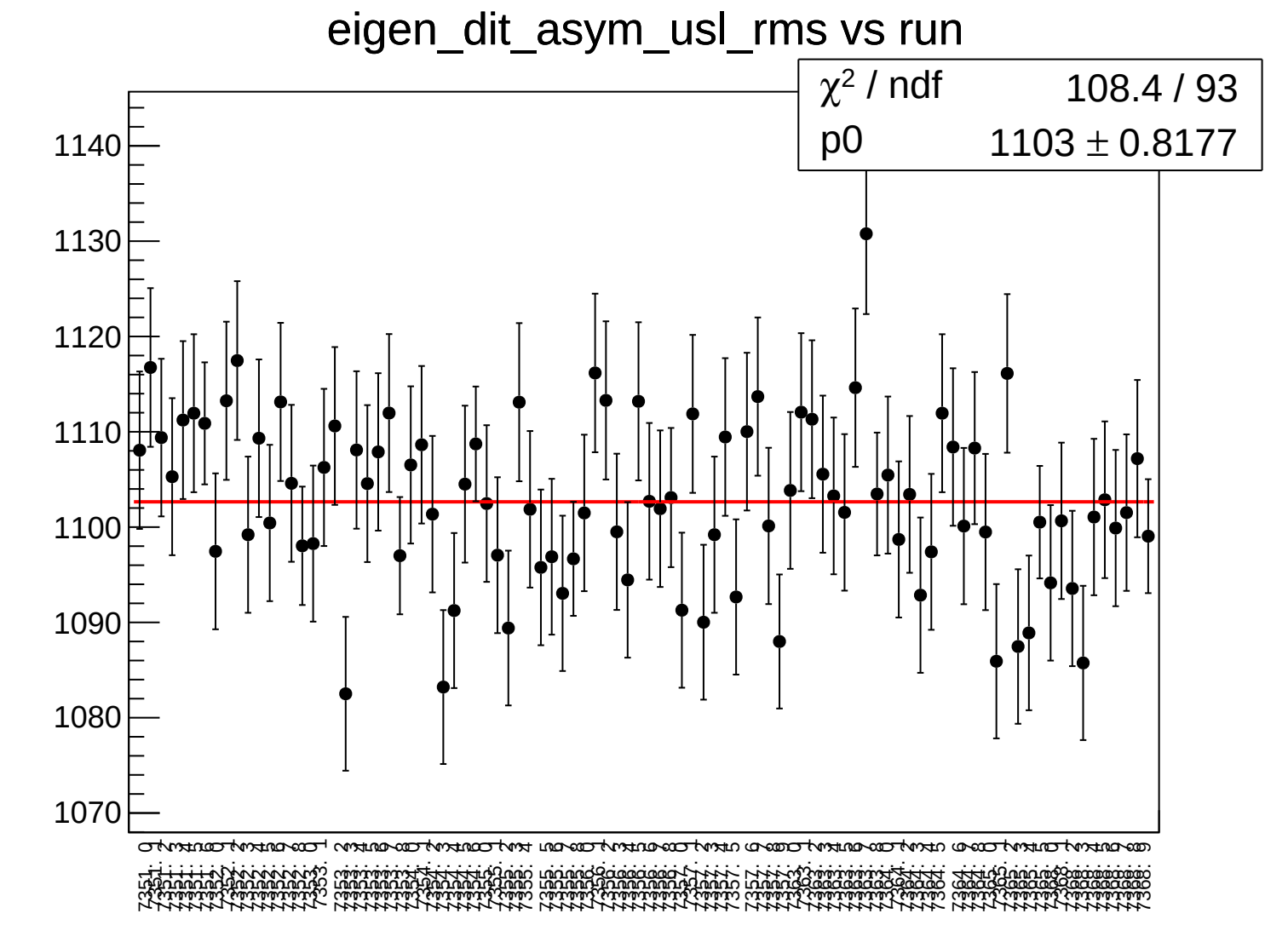

pull1D
Entries 94
Mean 0.00778
Std Dev 0.8038

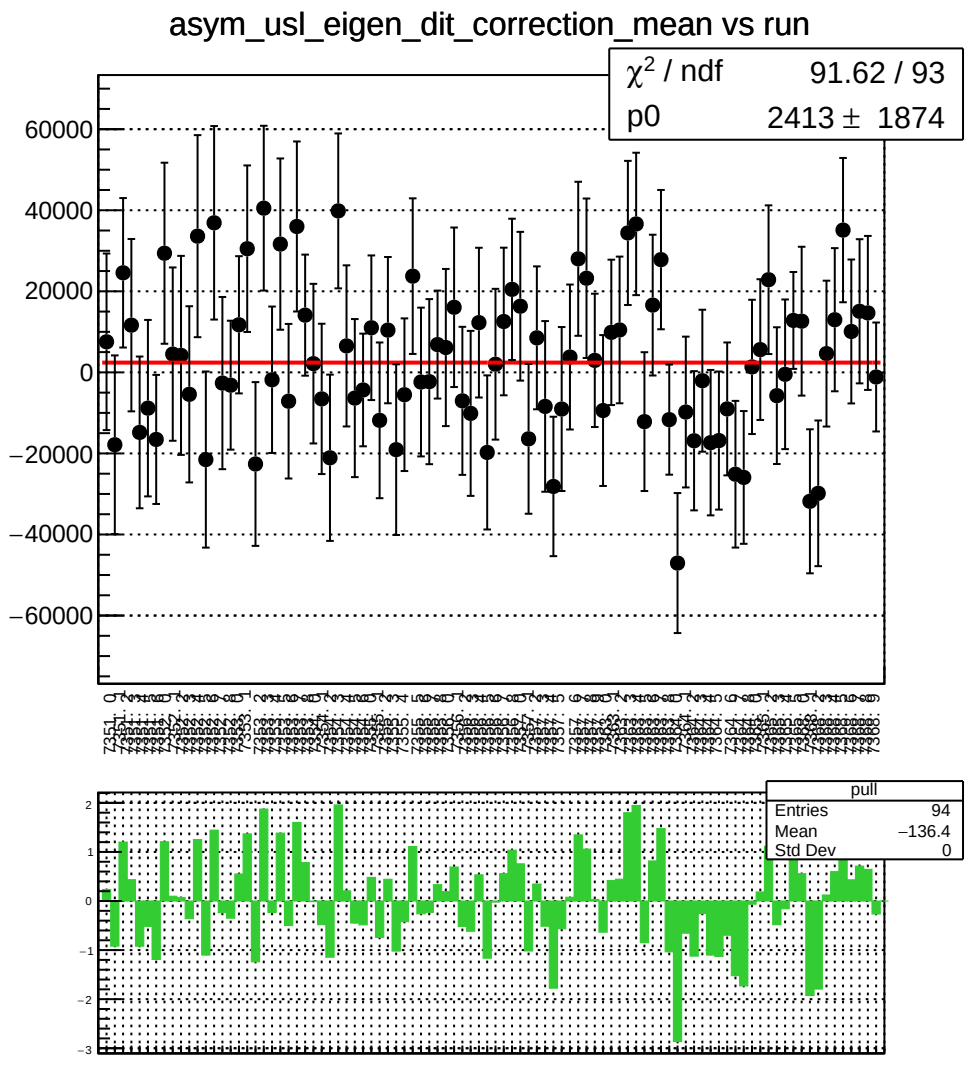

dit_asym_usl_rms vs run
χ² / ndf 108.4 / 93
p0 1103 ± 0.8177
1140
1130
1120
1110
1100
1090
1080
1070

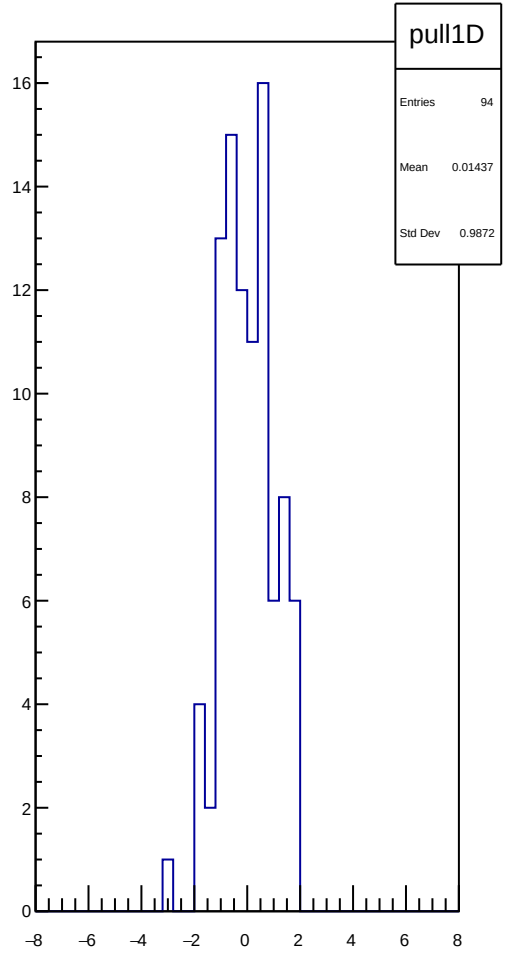

asym_usl_dit_correction_mean vs run
χ² / ndf 91.62 / 93
p0 2413 ± 1874
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −136.4
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.01437
Std Dev 0.9872
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

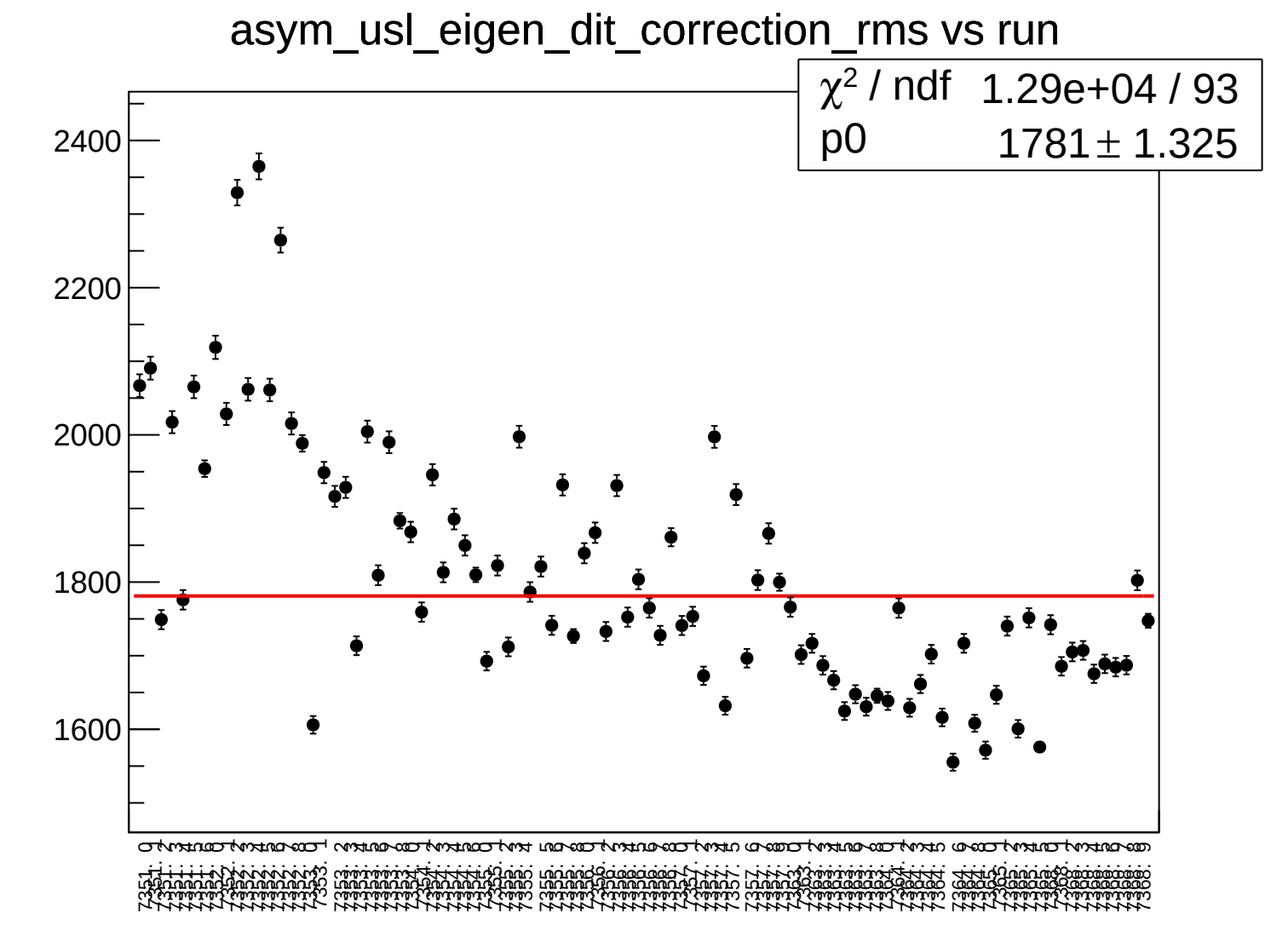

asym_usl_dit_correction_rms vs run
χ² / ndf 1.29e+04 / 93
p0 1781 ± 1.325
2400
2200
2000
1800
1600

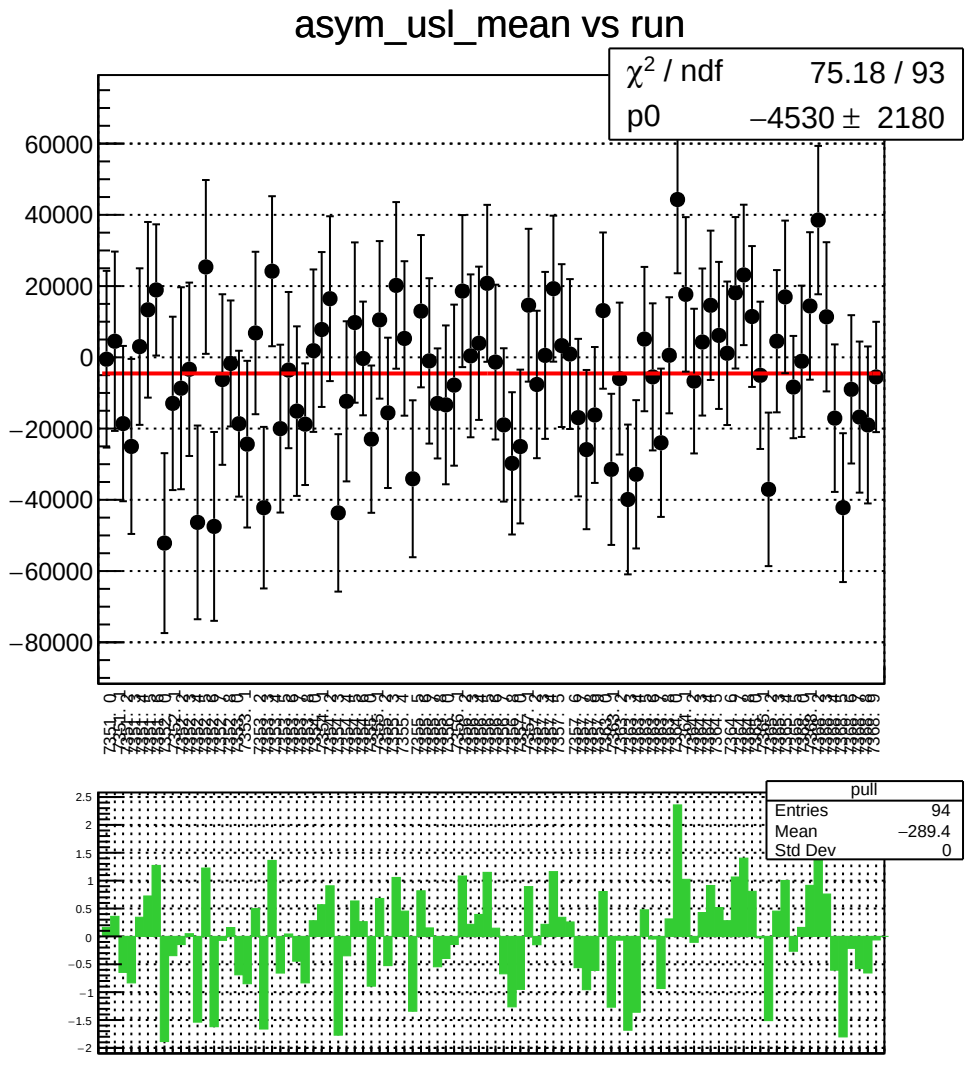

eigen_dit_asym_usl_mean vs run
χ² / ndf 60.75 / 93
p0 −2177 ± 1156
pull
Entries 94
Mean 300.5
Std Dev 0
pull1D
Entries 94
Mean 0.00778
Std Dev 0.8038

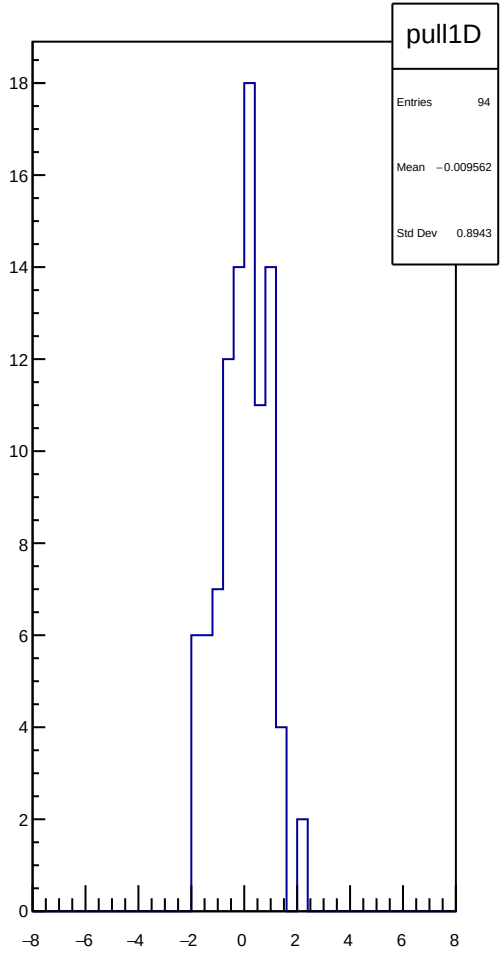

eigen_dit_asym_usl_rms vs run
χ² / ndf 108.4 / 93
p0 1103 ± 0.8177
1140
1130
1120
1110
1100
1090
1080
1070

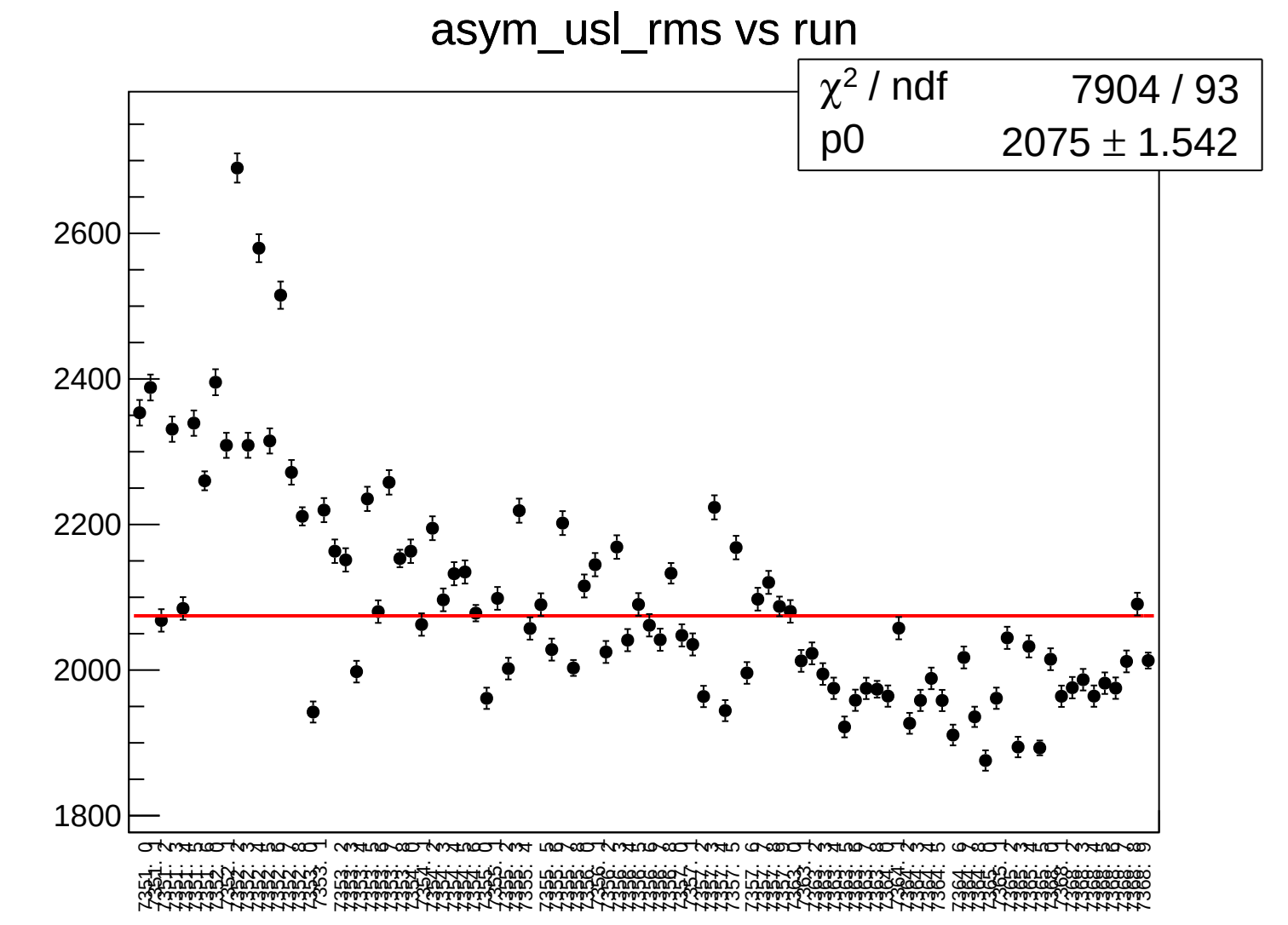

asym_usl_eigen_dit_correction_mean vs run
χ² / ndf 91.62 / 93
p0 2413 ± 1874
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −136.4
Std Dev 0
2
1
0
−1
−2
−3

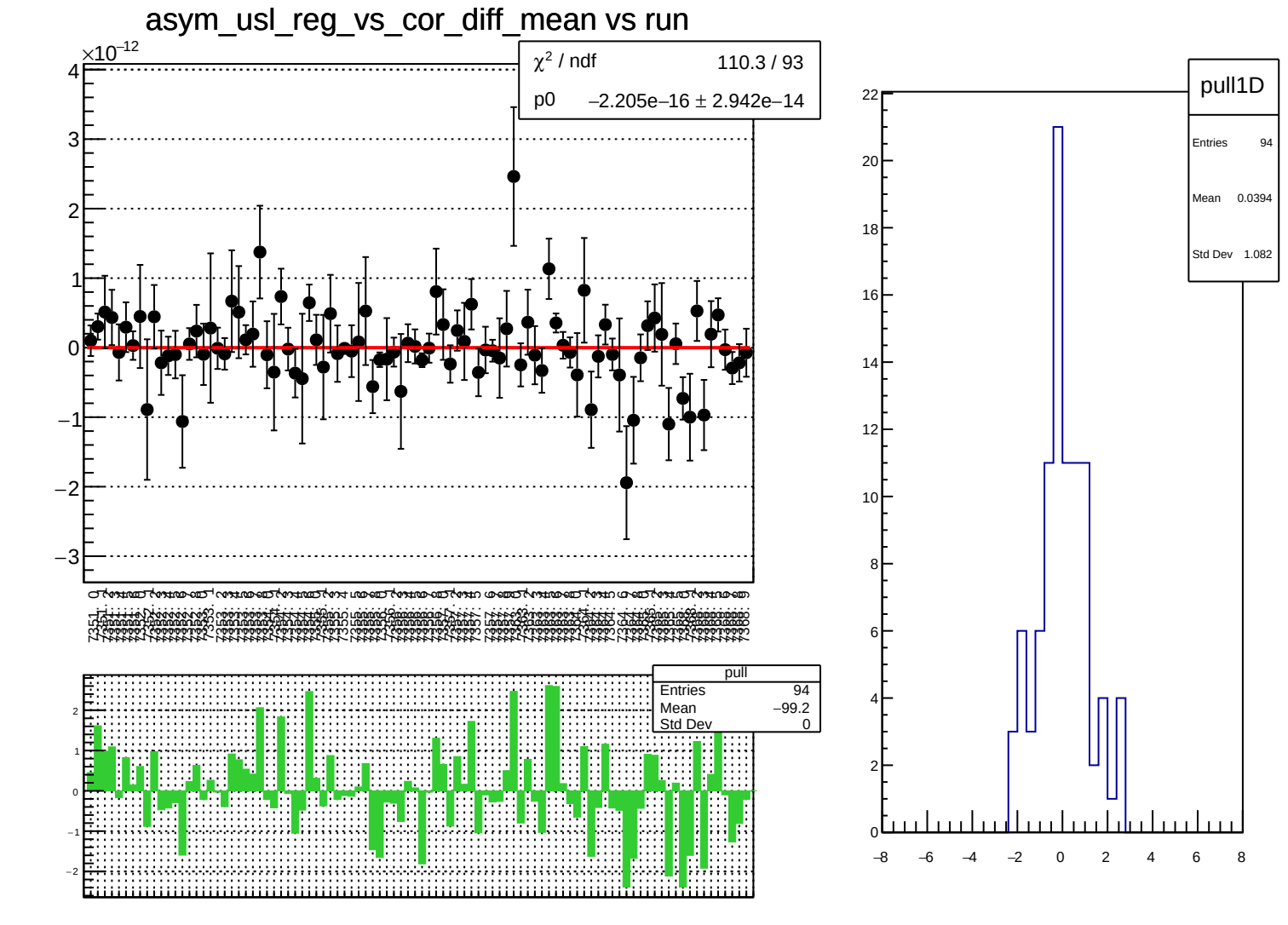

pull1D
Entries 94
Mean 0.01437
Std Dev 0.9872
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

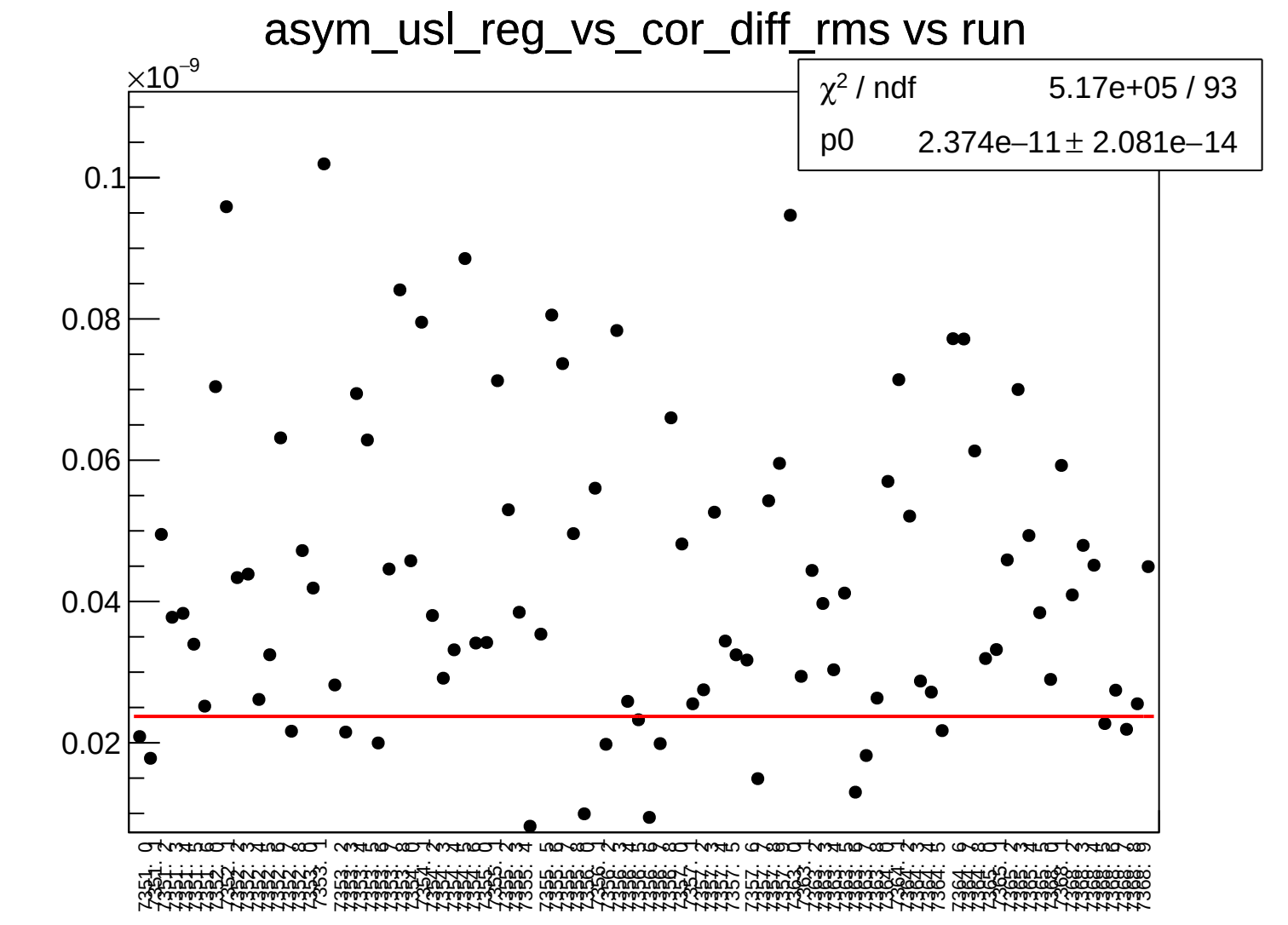

asym_usl_eigen_dit_correction_rms vs run
χ² / ndf 1.29e+04 / 93
p0 1781 ± 1.325
2400
2200
2000
1800
1600

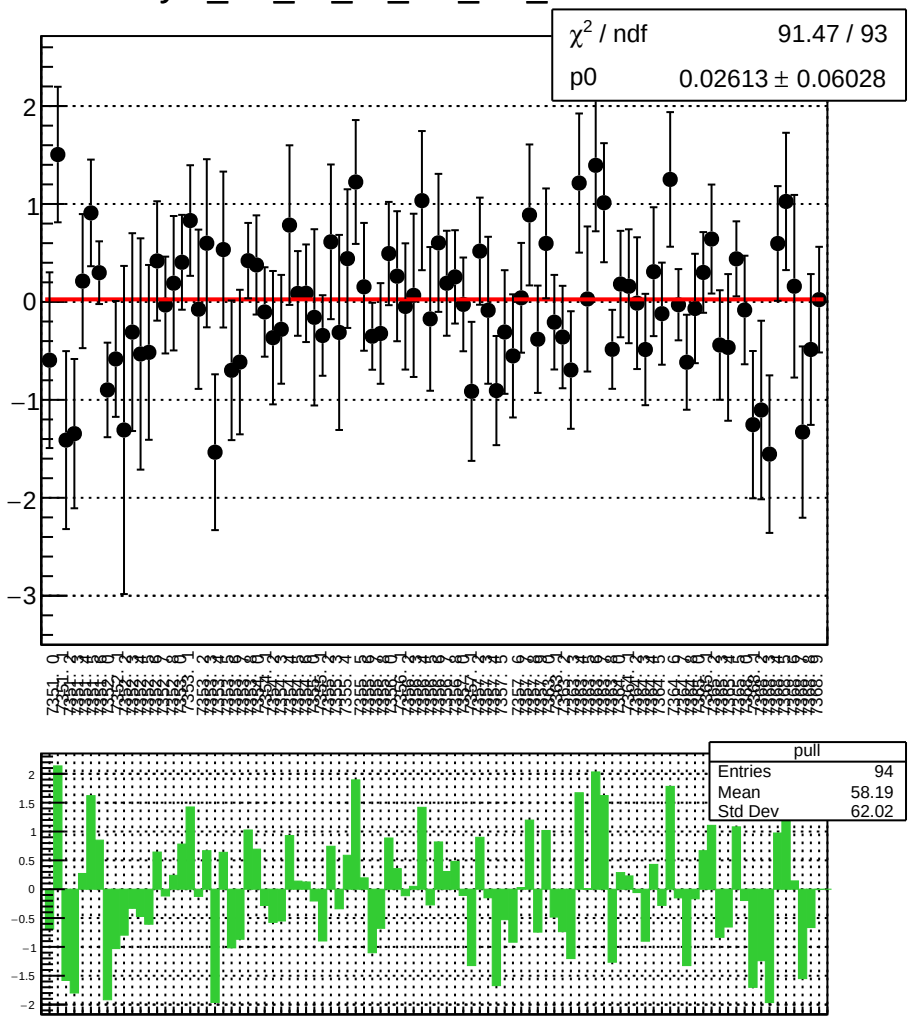

asym_usl_mean vs run
χ² / ndf 75.18 / 93
p0 −4530 ± 2180
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean −289.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

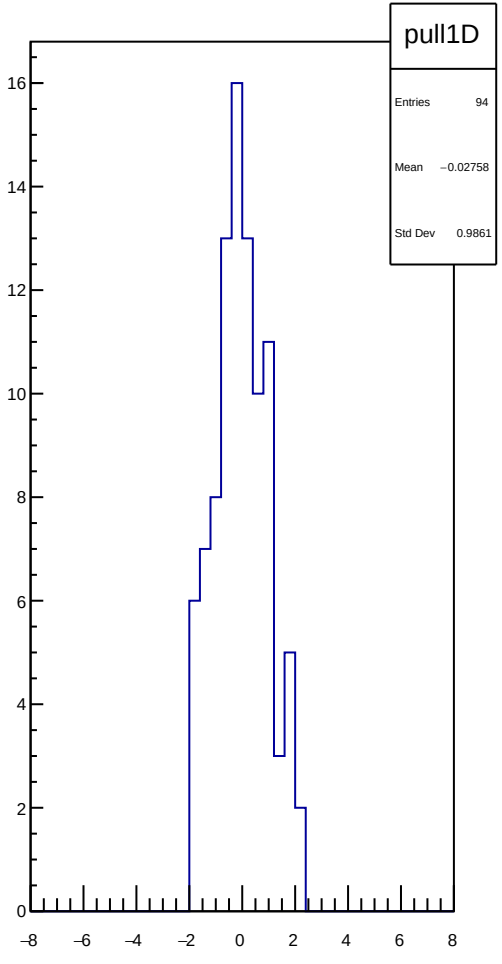

pull1D
Entries 94
Mean −0.009562
Std Dev 0.8943
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

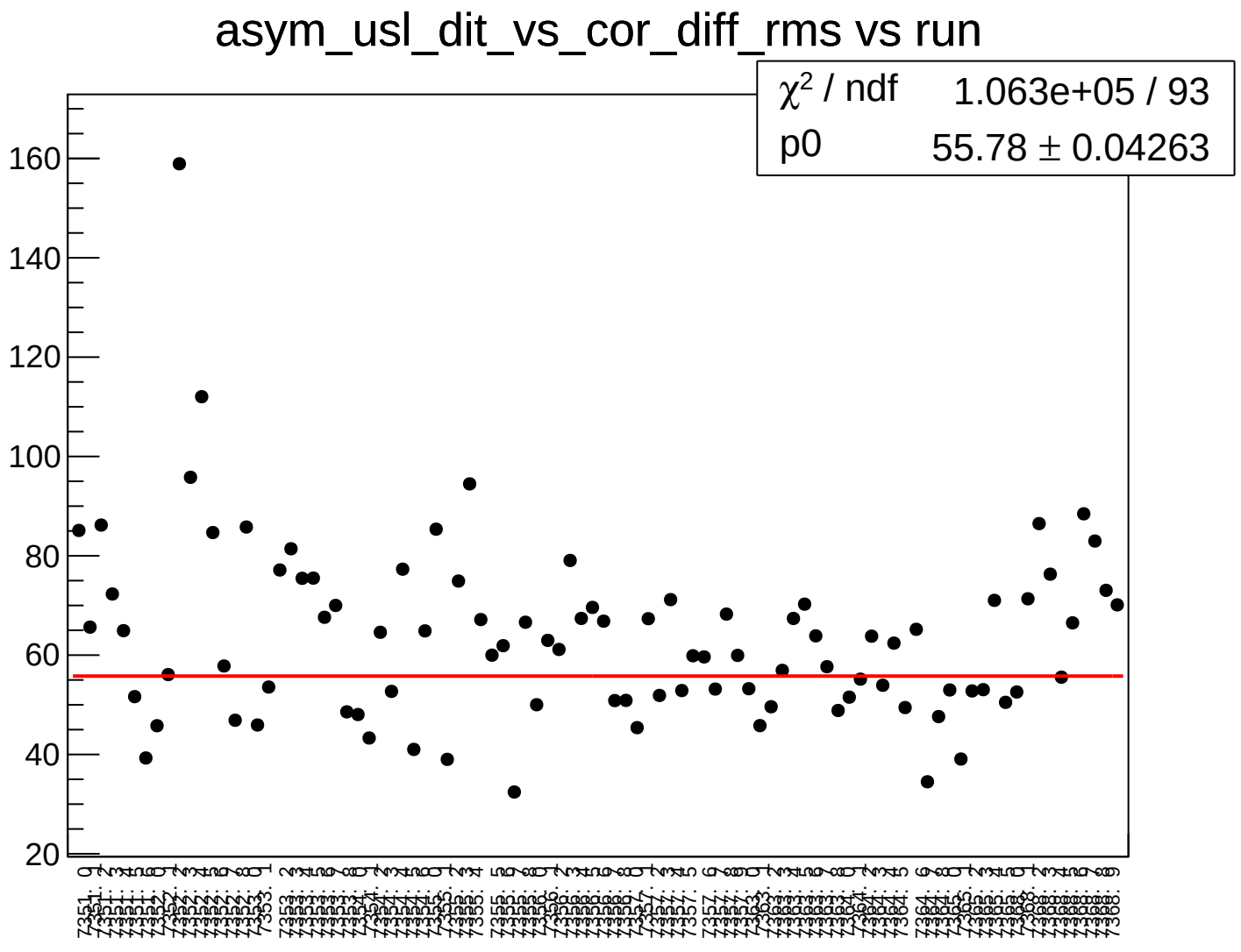

asym_usl_rms vs run
χ^2 / ndf 7904 / 93
p0 2075 ± 1.542
2600
2400
2200
2000
1800

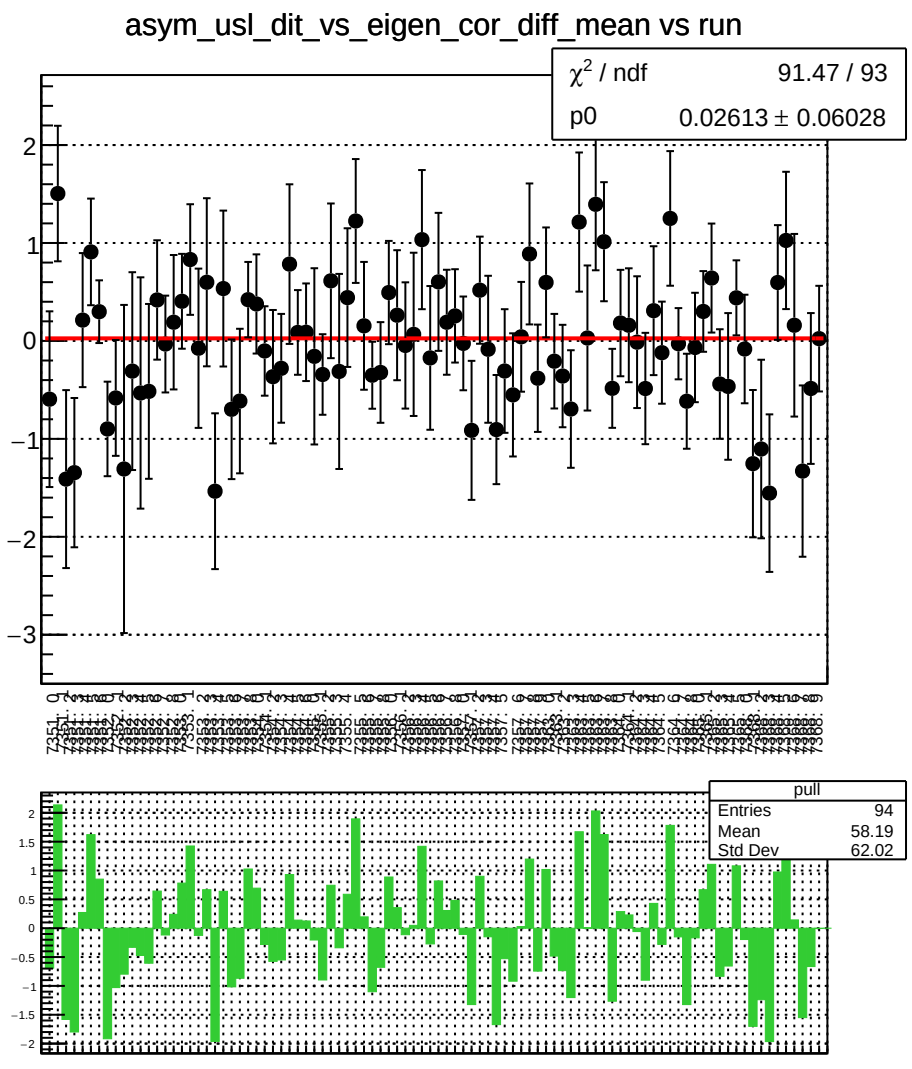

asym_usl_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 110.3 / 93
p0 −2.205e−16 ± 2.942e−14
pull
Entries 94
Mean −99.2
Std Dev 0
pull1D
Entries 94
Mean 0.0394
Std Dev 1.082

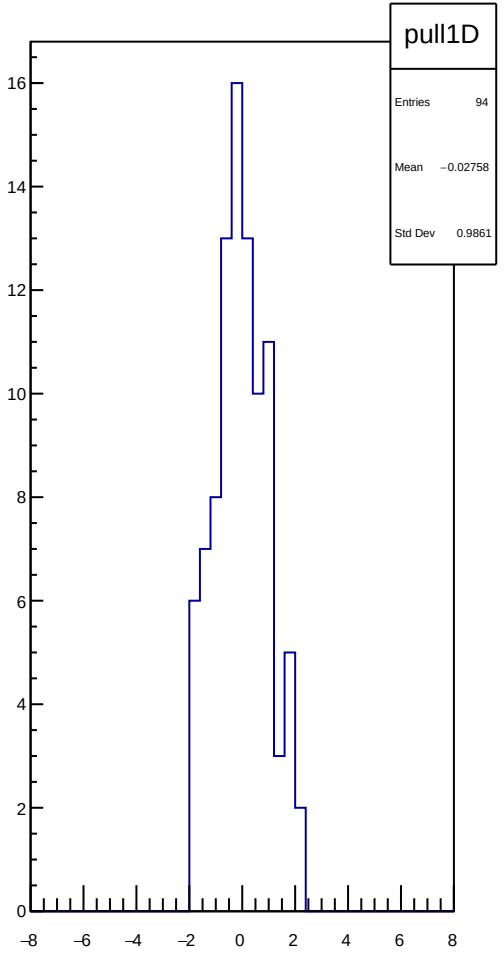

asym_usl_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.17e+05 / 93
p0 2.374e−11 ± 2.081e−14
0.1
0.08
0.06
0.04
0.02

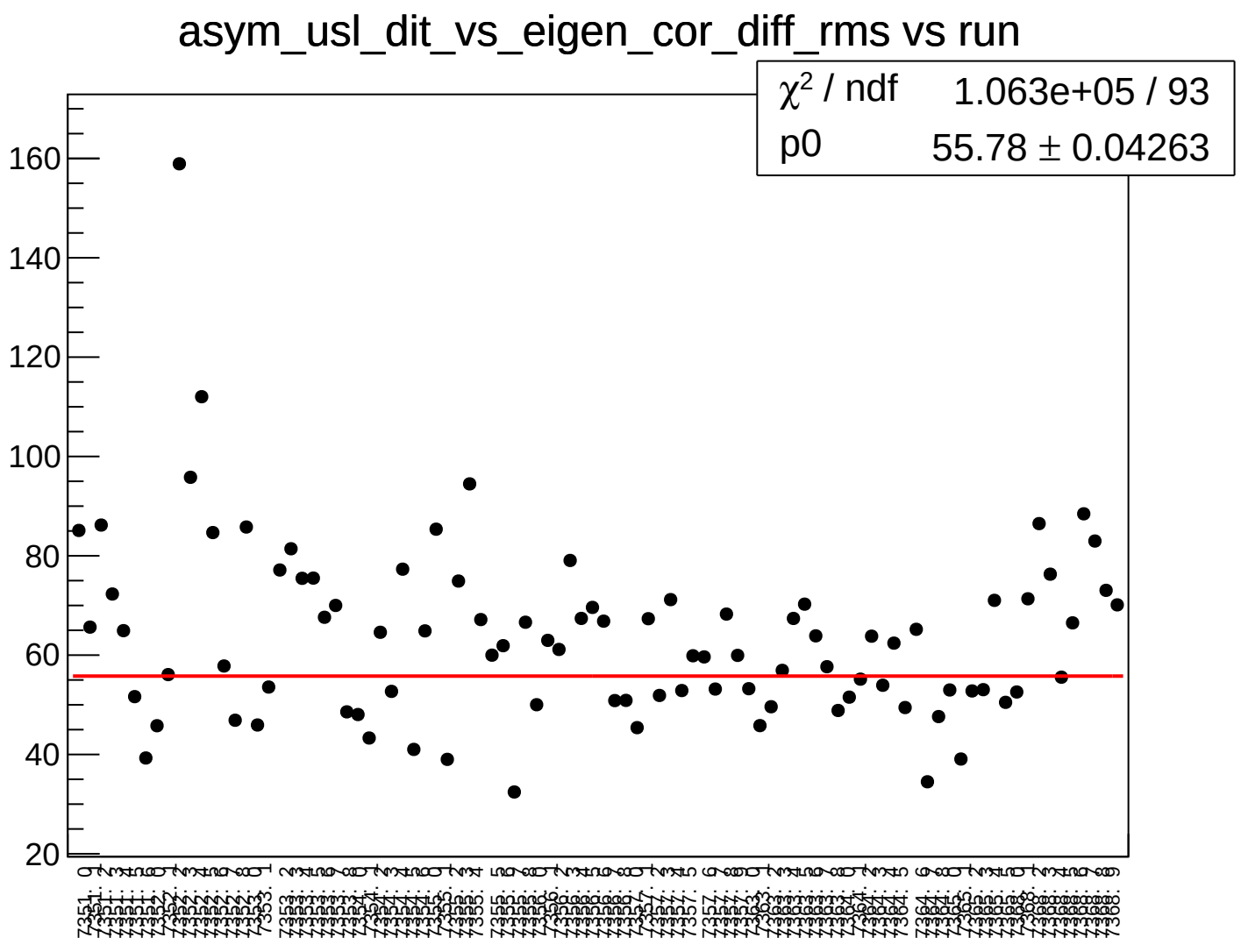

asym_usl_dit_vs_cor_diff_mean vs run
χ^2 / ndf 91.47 / 93
p0 0.02613 ± 0.06028
pull
Entries 94
Mean 58.19
Std Dev 62.02

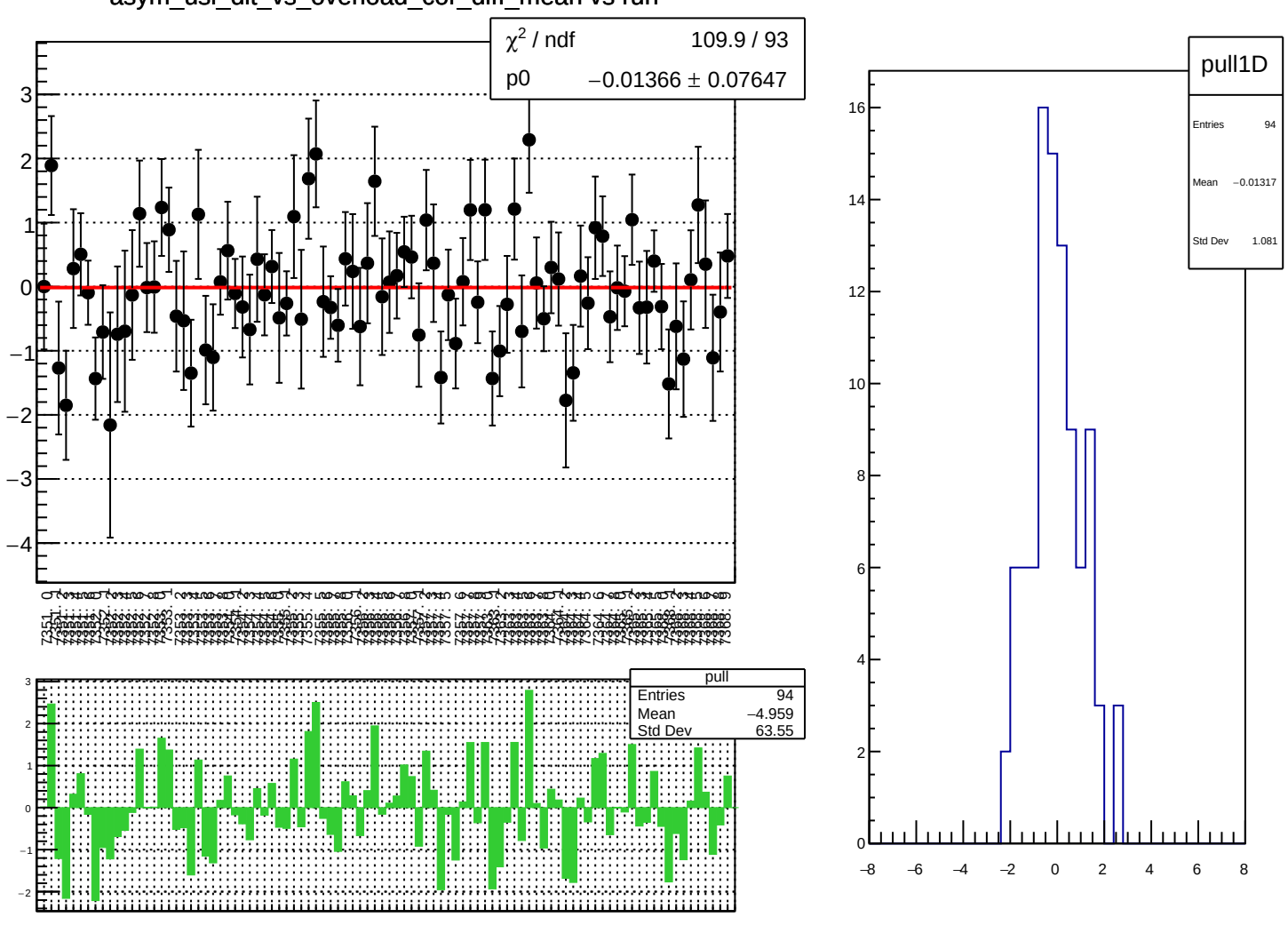

pull1D
Entries 94
Mean −0.02758
Std Dev 0.9861

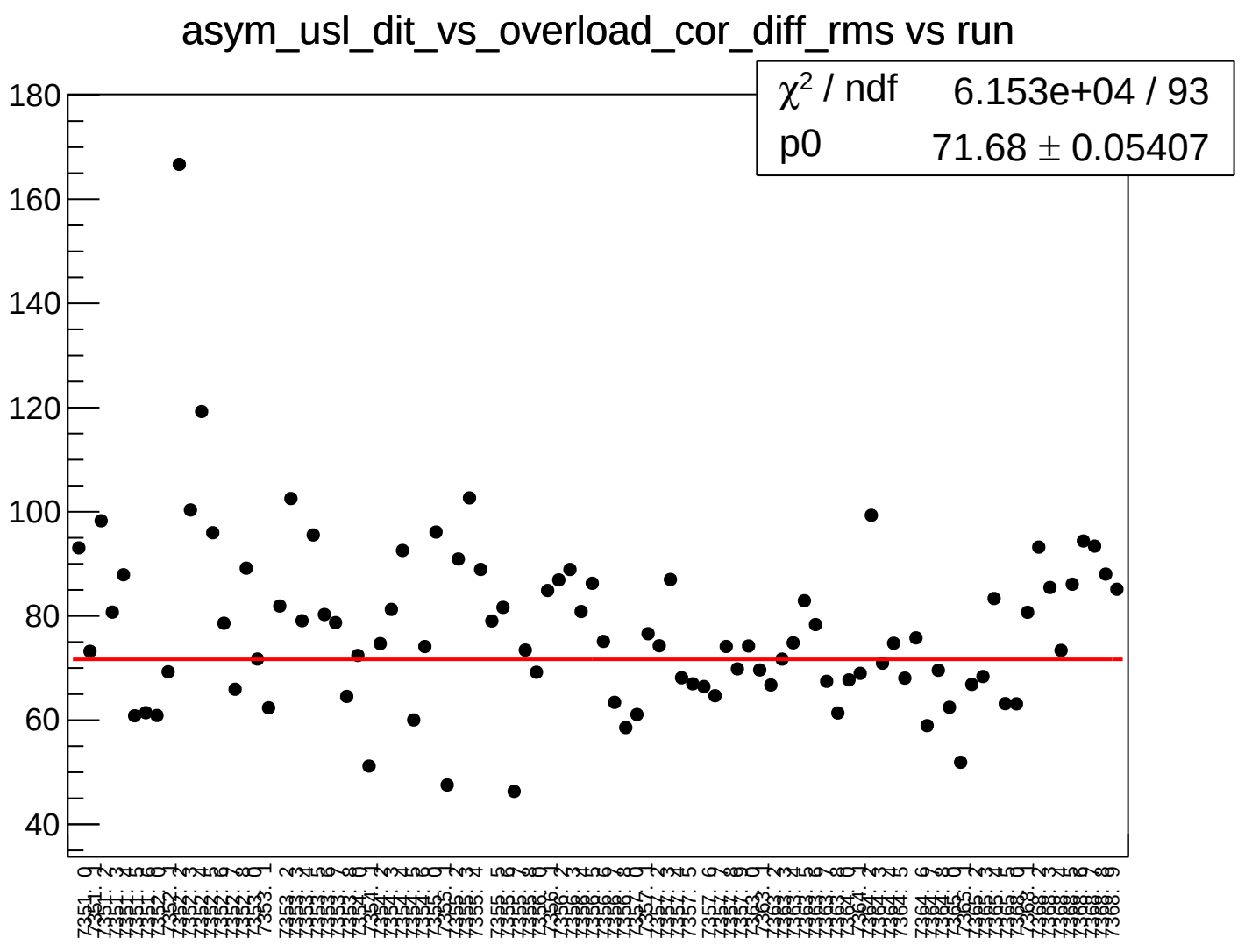

asym_usl_dit_vs_cor_diff_rms vs run
χ² / ndf 1.063e+05 / 93
p0 55.78 ± 0.04263
160
140
120
100
80
60
40
20

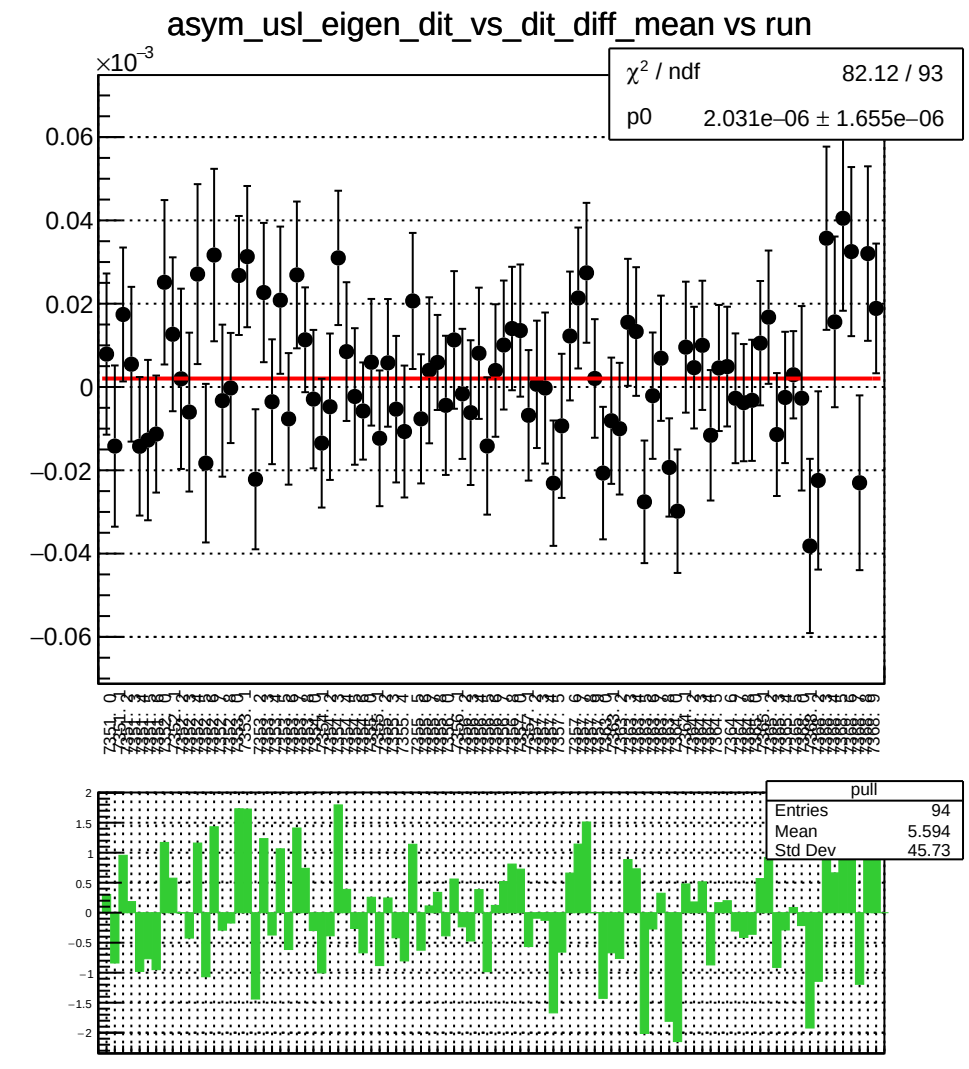

asym_usl_dit_vs_eigen_cor_diff_mean vs run
χ^2 / ndf 91.47 / 93
p0 0.02613 ± 0.06028
pull
Entries 94
Mean 58.19
Std Dev 62.02

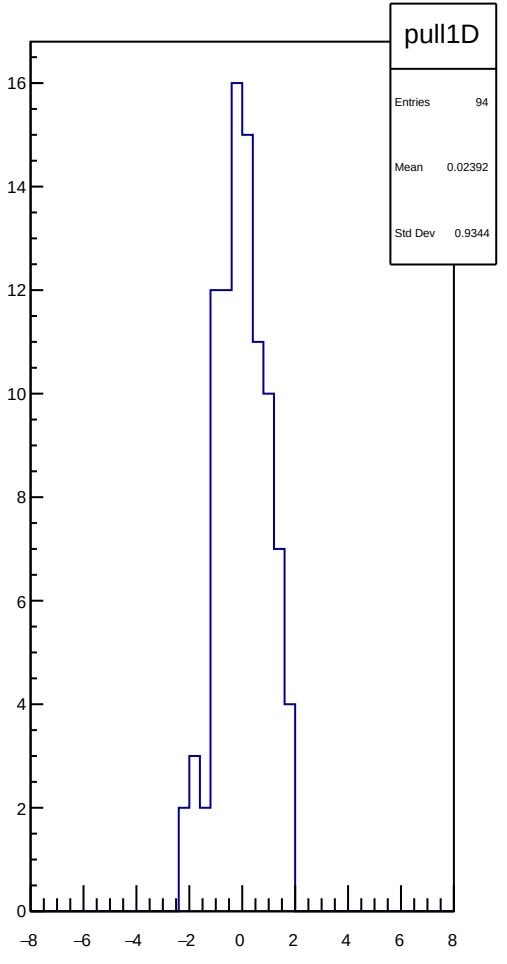

pull1D
Entries 94
Mean −0.02758
Std Dev 0.9861

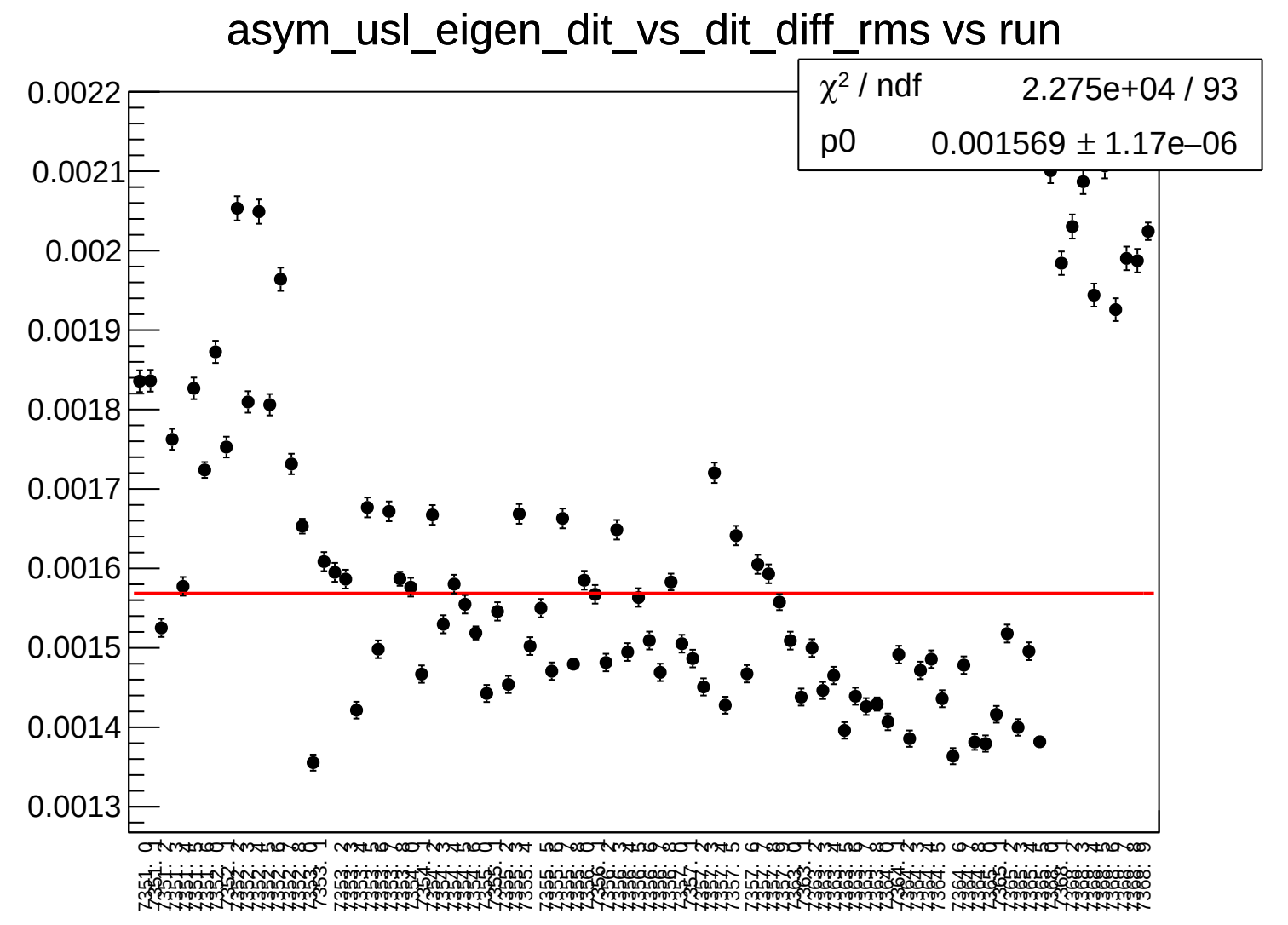

asym_usl_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.063e+05 / 93
p0 55.78 ± 0.04263
160
140
120
100
80
60
40
20

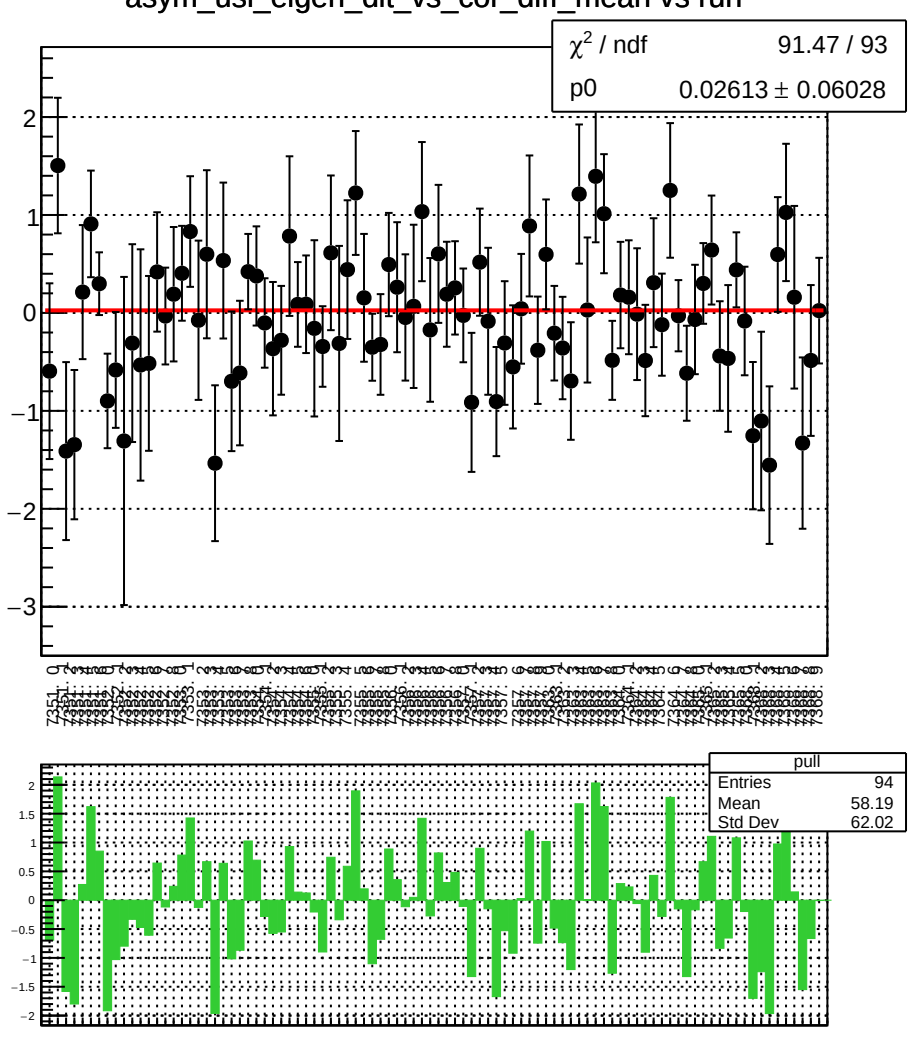

asym_usl_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 109.9 / 93
p0 −0.01366 ± 0.07647
pull
Entries 94
Mean −4.959
Std Dev 63.55
pull1D
Entries 94
Mean −0.01317
Std Dev 1.081

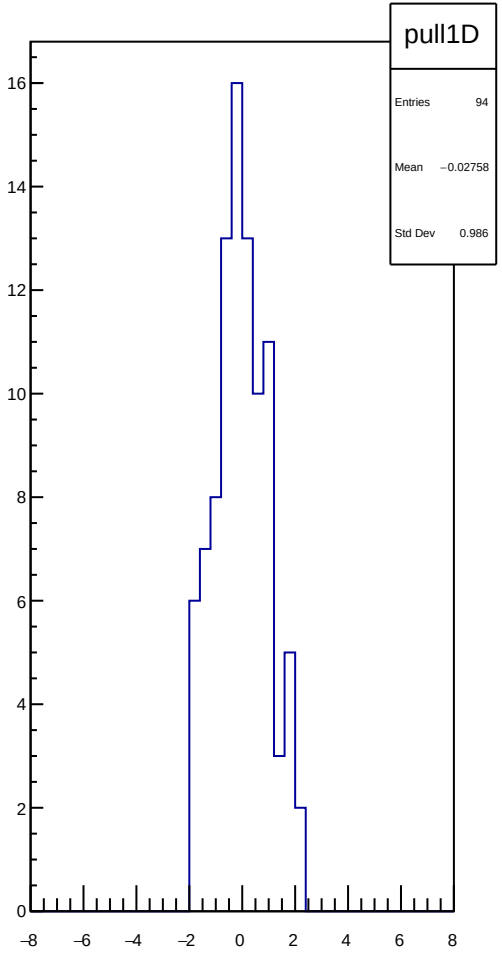

asym_usl_dit_vs_overload_cor_diff_rms vs run
χ^2 / ndf 6.153e+04 / 93
p0 71.68 ± 0.05407
180
160
140
120
100
80
60
40

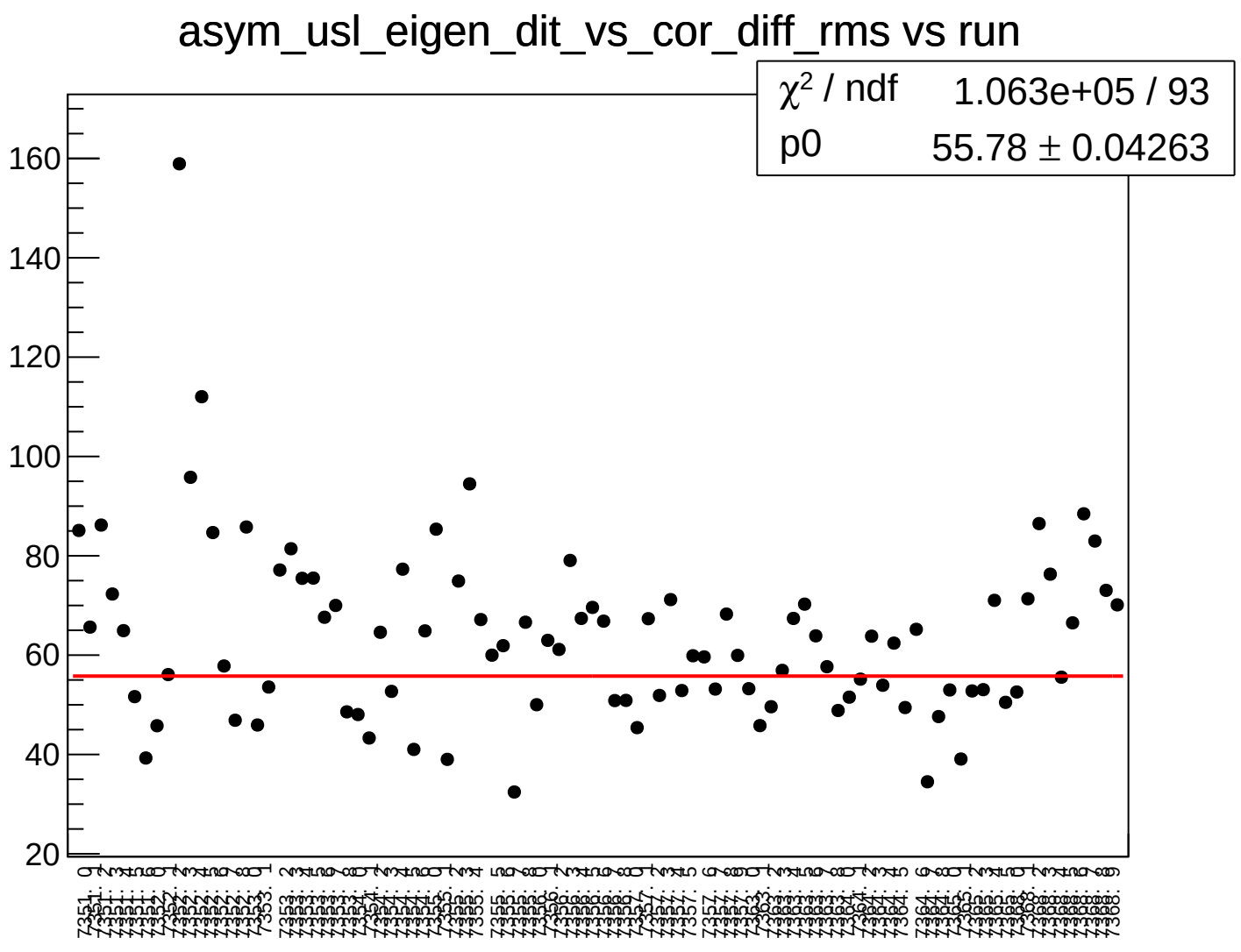

asym_usl_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 82.12 / 93
p0 2.031e−06 ± 1.655e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 94
Mean 5.594
Std Dev 45.73
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

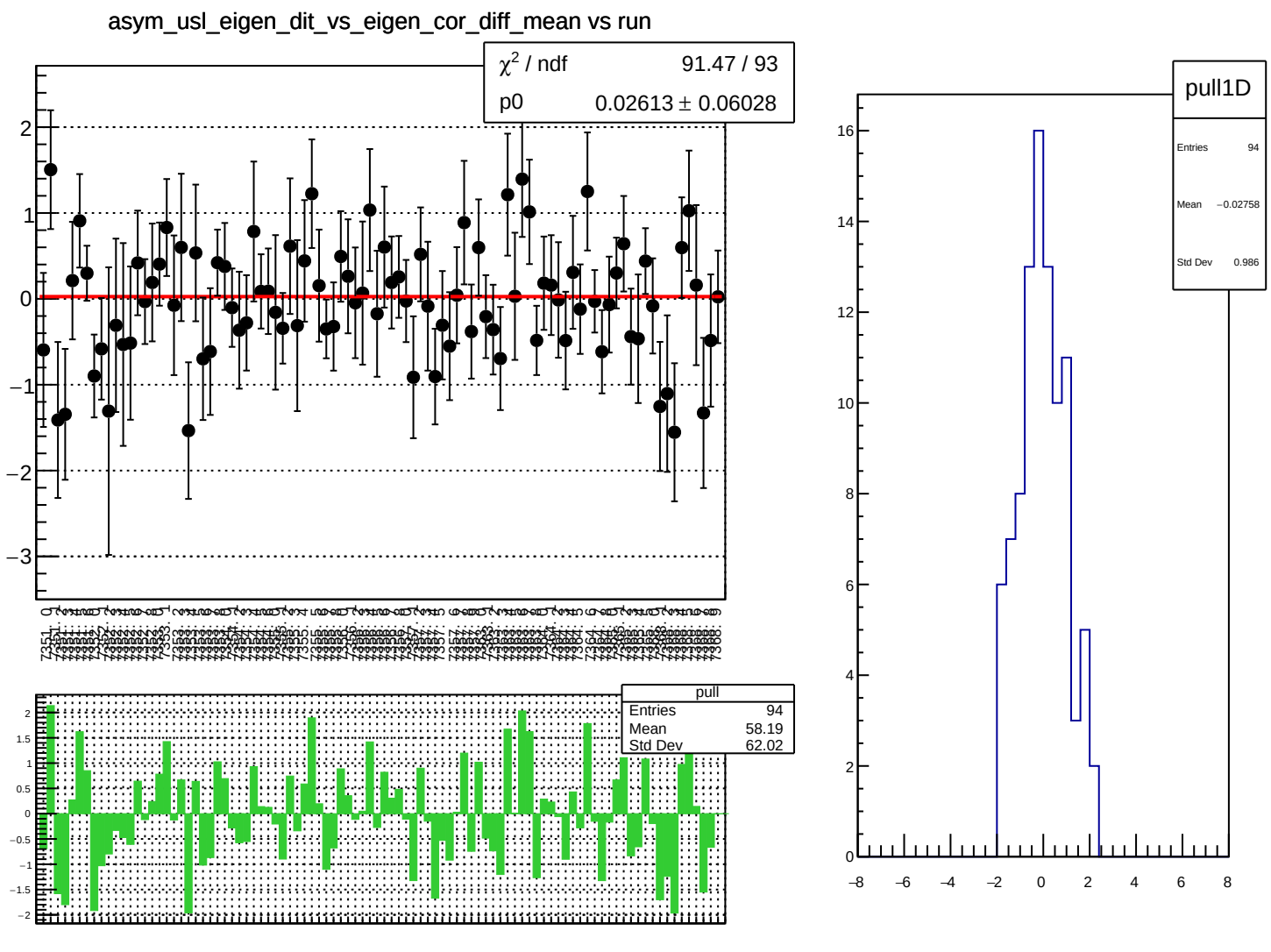

pull1D
Entries 94
Mean 0.02392
Std Dev 0.9344
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

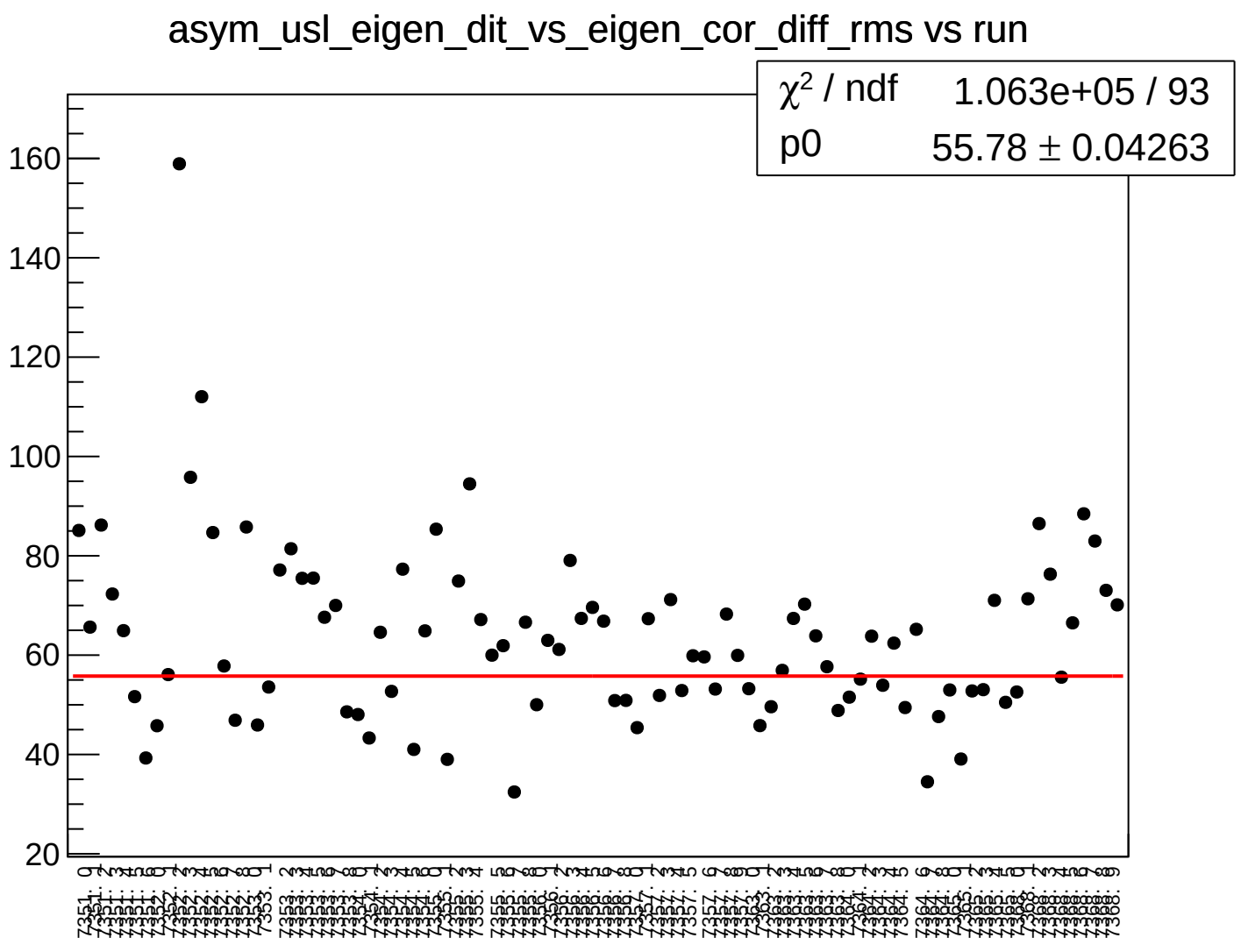

asym_usl_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.275e+04 / 93
p0 0.001569 ± 1.17e–06
0.0022
0.0021
0.002
0.0019
0.0018
0.0017
0.0016
0.0015
0.0014
0.0013

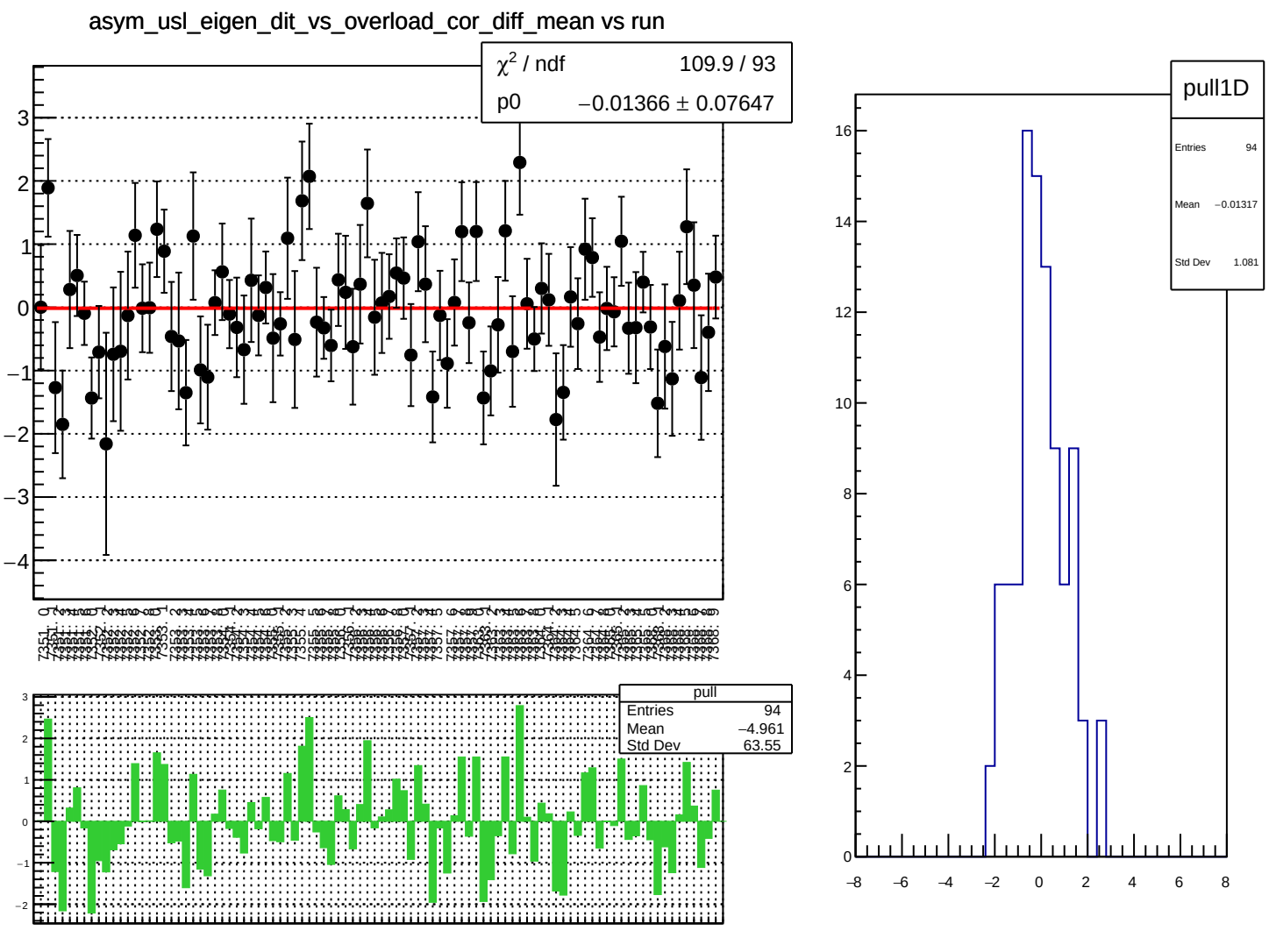

asym_usl_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.47 / 93
p0 0.02613 ± 0.06028
pull
Entries 94
Mean 58.19
Std Dev 62.02

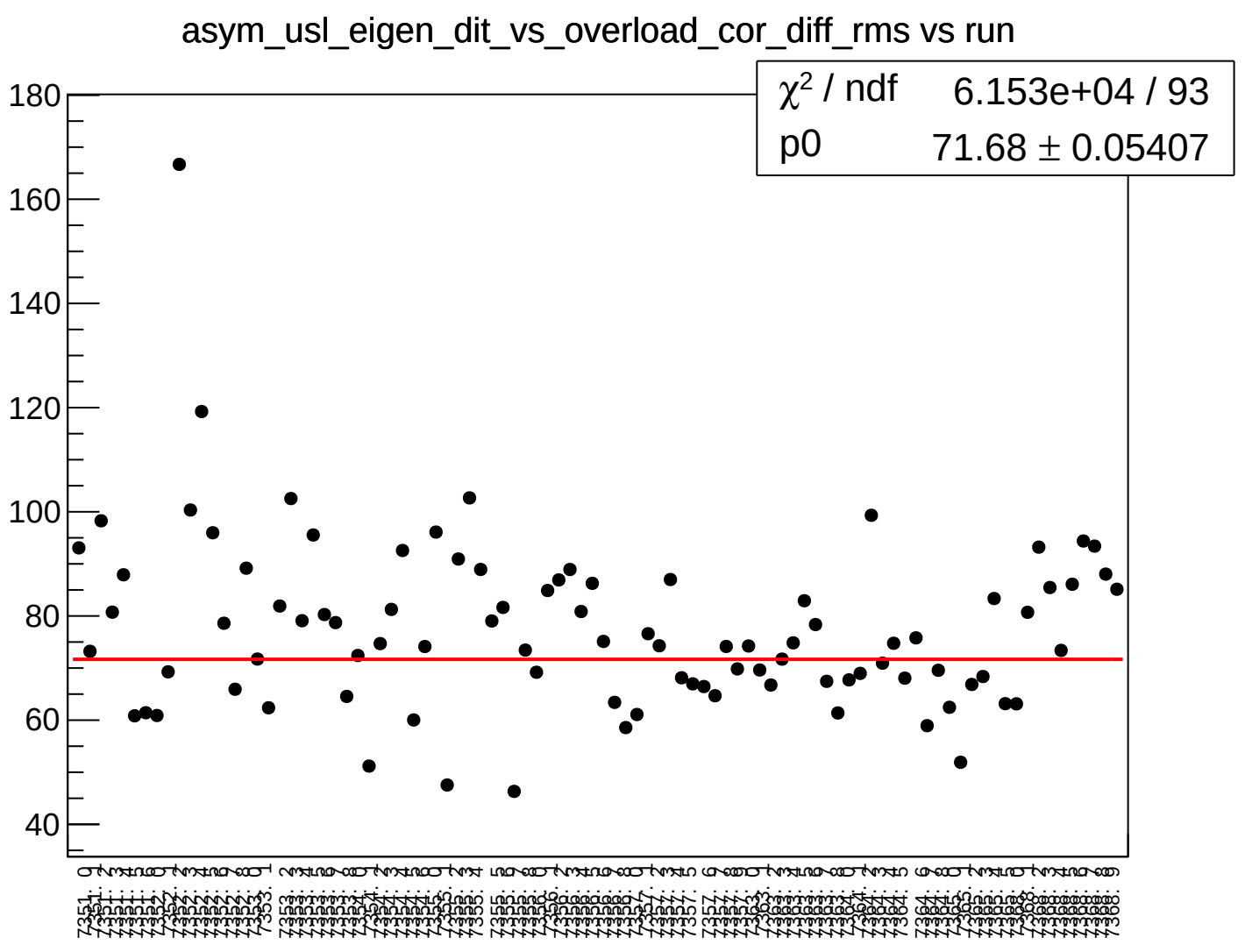

pull1D
Entries 94
Mean −0.02758
Std Dev 0.986

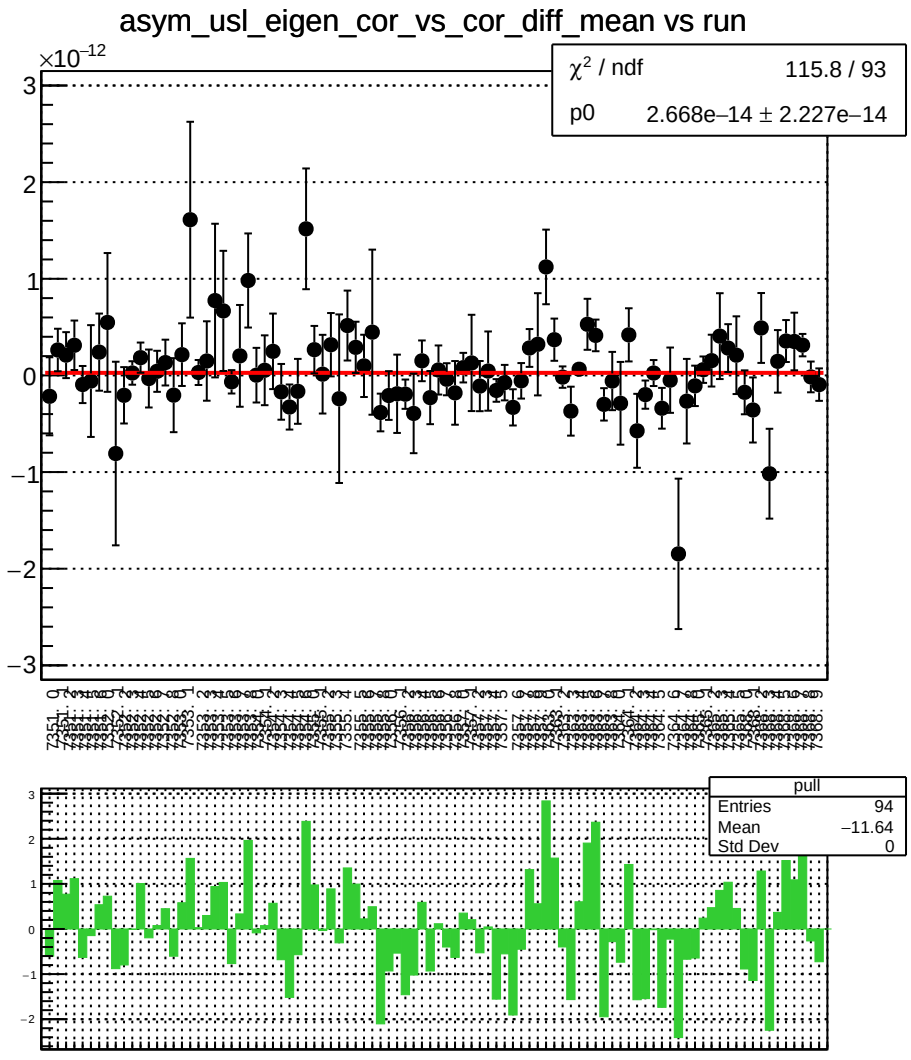

asym_usl_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.063e+05 / 93
p0 55.78 ± 0.04263
160
140
120
100
80
60
40
20

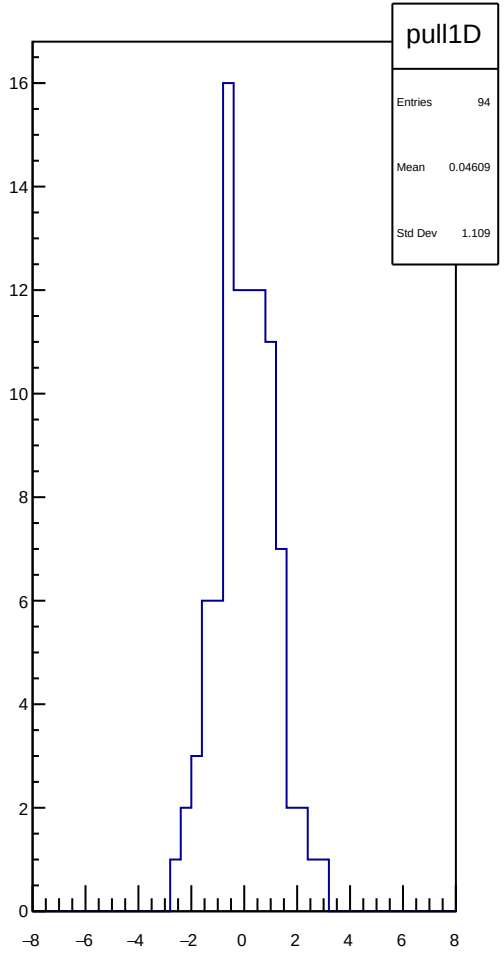

asym_usl_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.47 / 93
p0 0.02613 ± 0.06028
pull
Entries 94
Mean 58.19
Std Dev 62.02
pull1D
Entries 94
Mean −0.02758
Std Dev 0.986

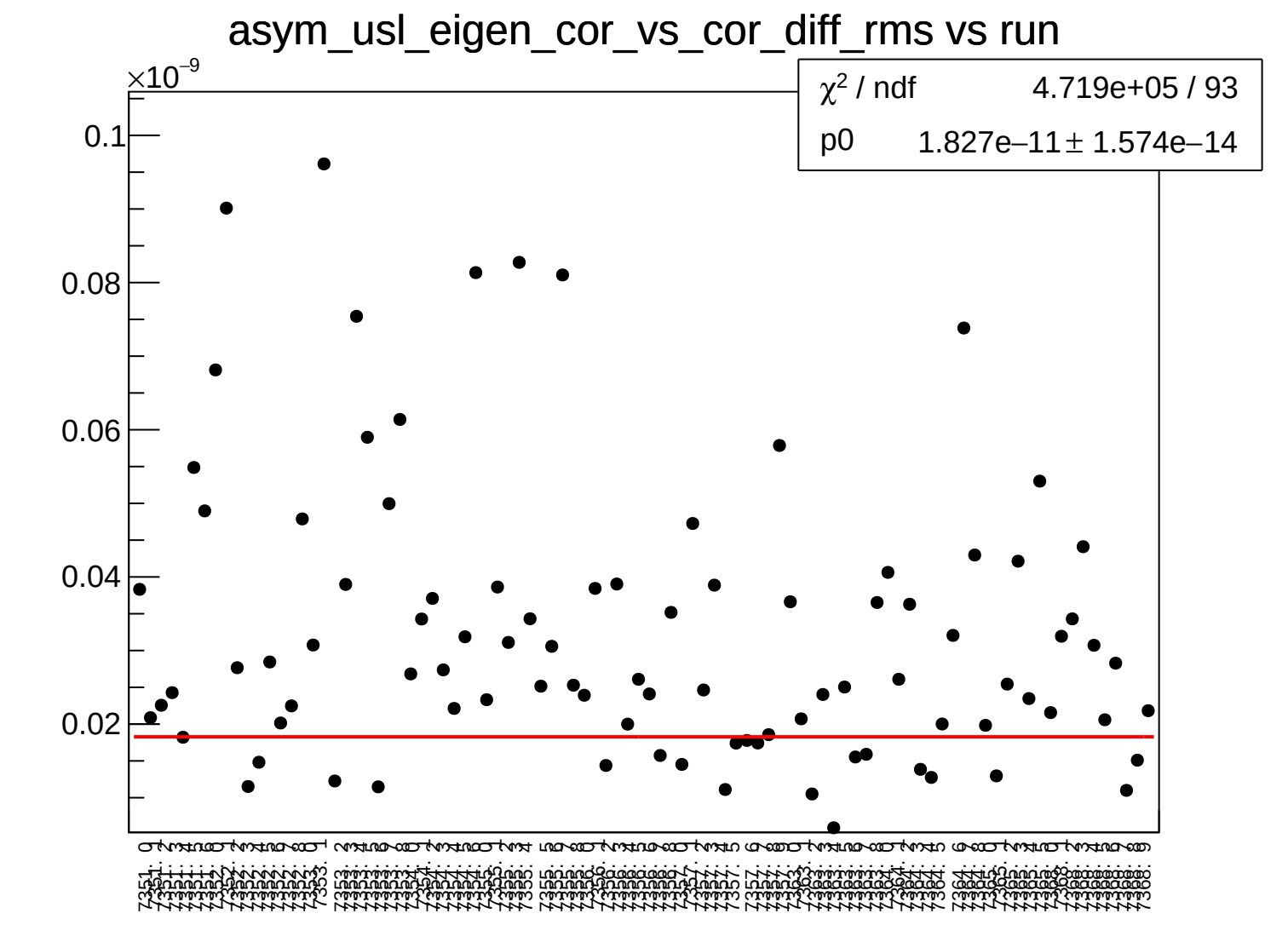

asym_usl_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.063e+05 / 93
p0 55.78 ± 0.04263
160
140
120
100
80
60
40
20

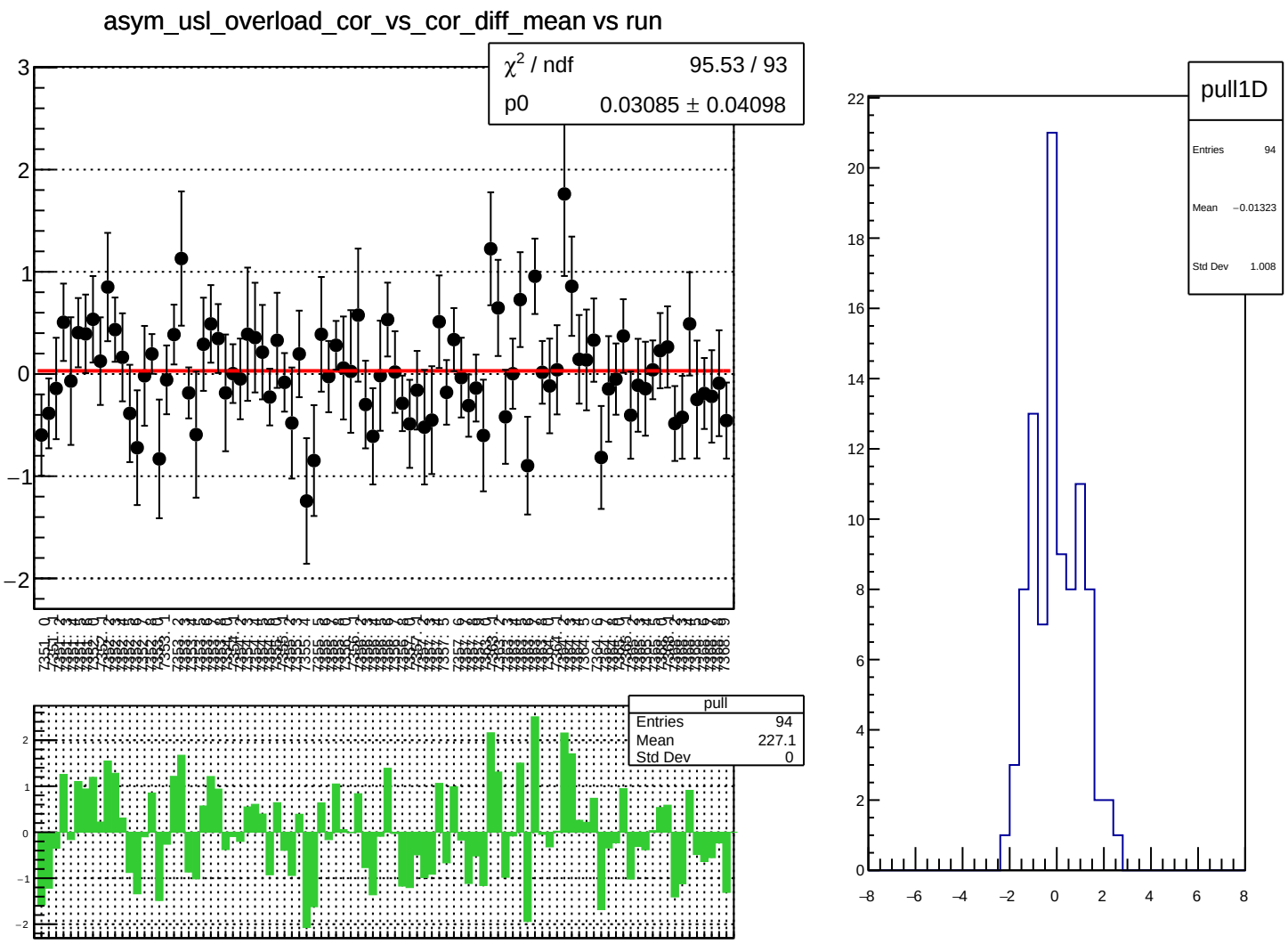

asym_usl_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 109.9 / 93
p0 −0.01366 ± 0.07647
pull
Entries 94
Mean −4.961
Std Dev 63.55
pull1D
Entries 94
Mean −0.01317
Std Dev 1.081

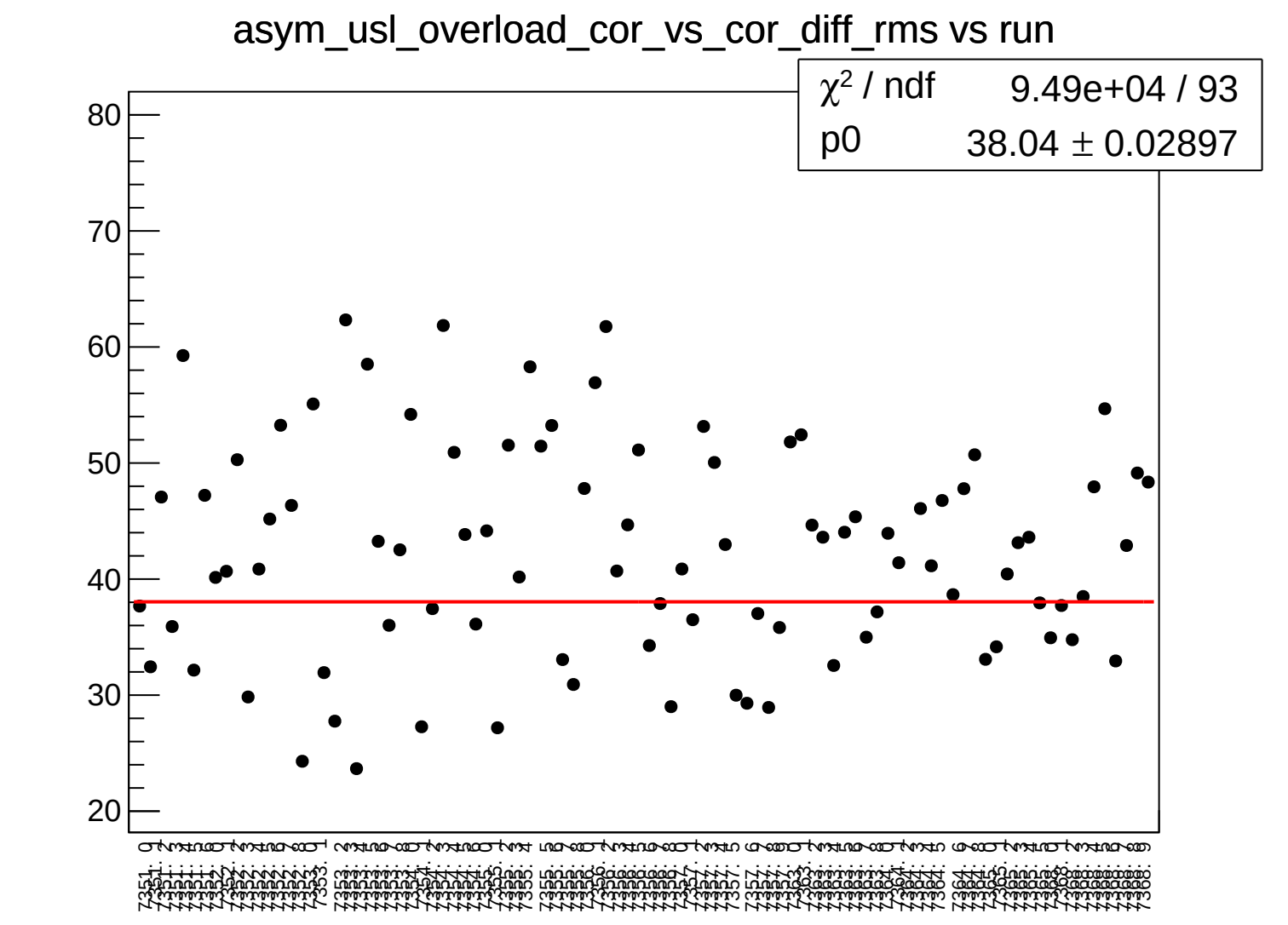

asym_usl_eigen_dit_vs_overload_cor_diff_rms vs run
χ^2 / ndf 6.153e+04 / 93
p0 71.68 ± 0.05407
180
160
140
120
100
80
60
40

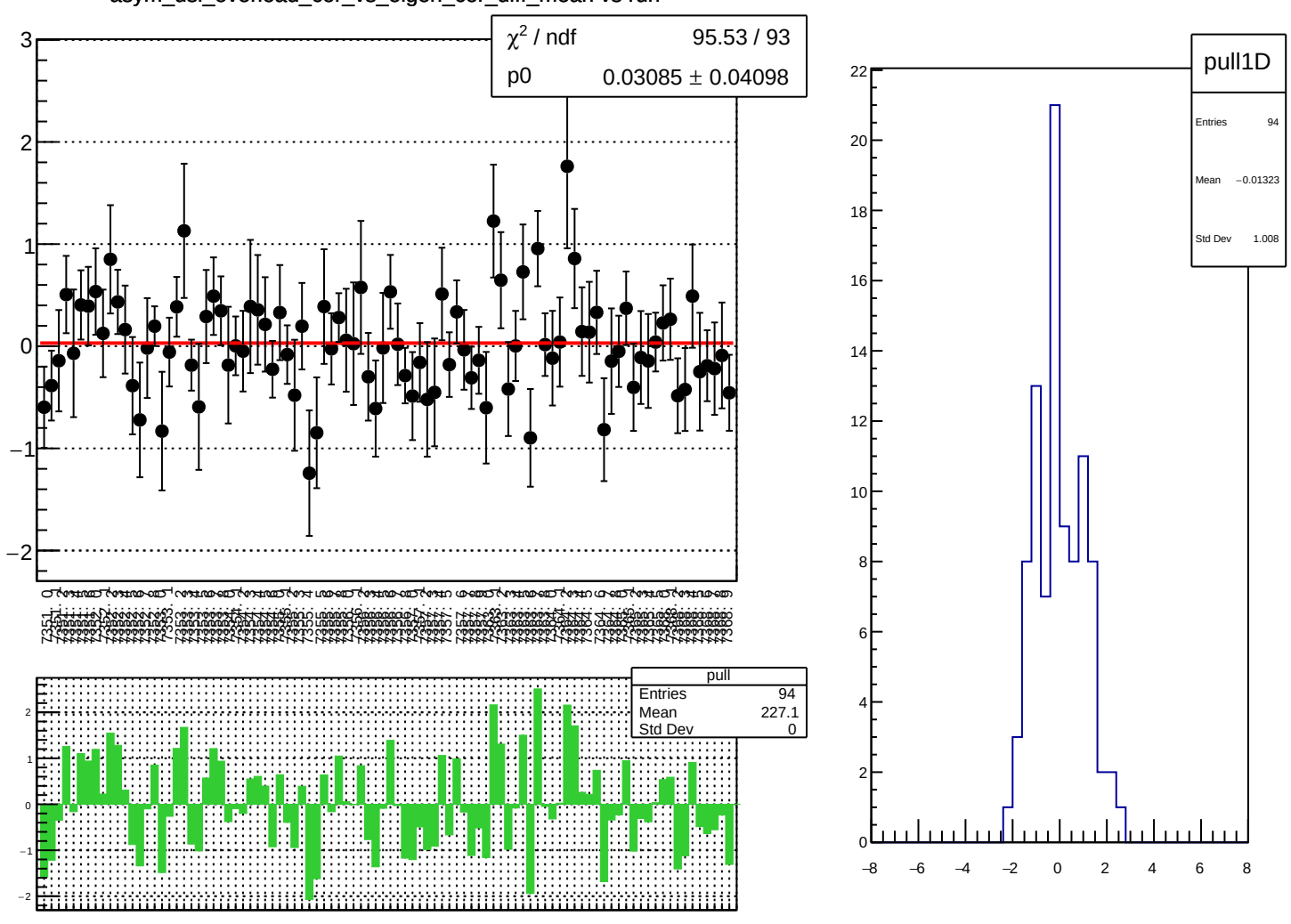

asym_usl_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 115.8 / 93
p0 2.668e−14 ± 2.227e−14
pull
Entries 94
Mean −11.64
Std Dev 0

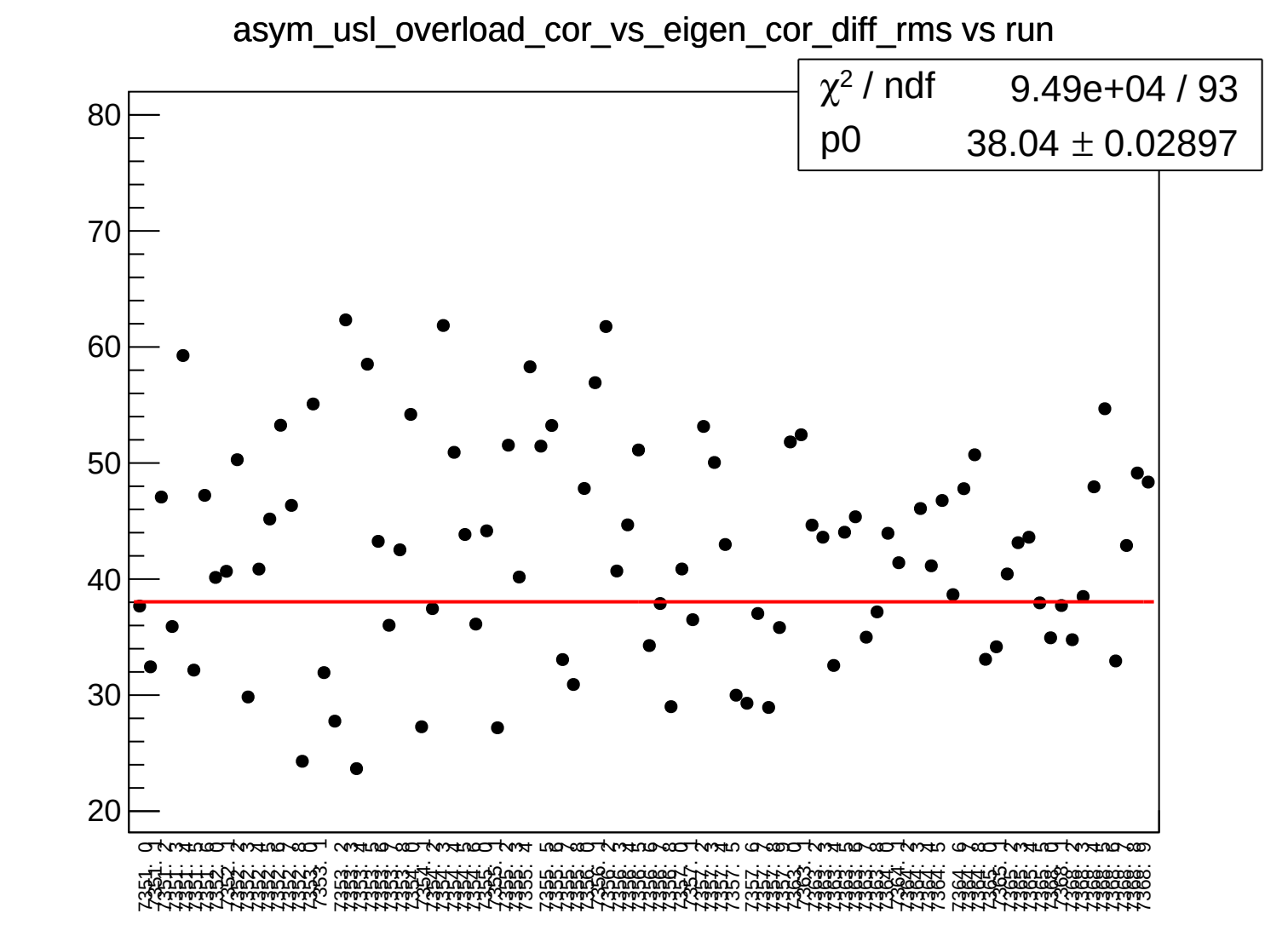

pull1D
Entries 94
Mean 0.04609
Std Dev 1.109

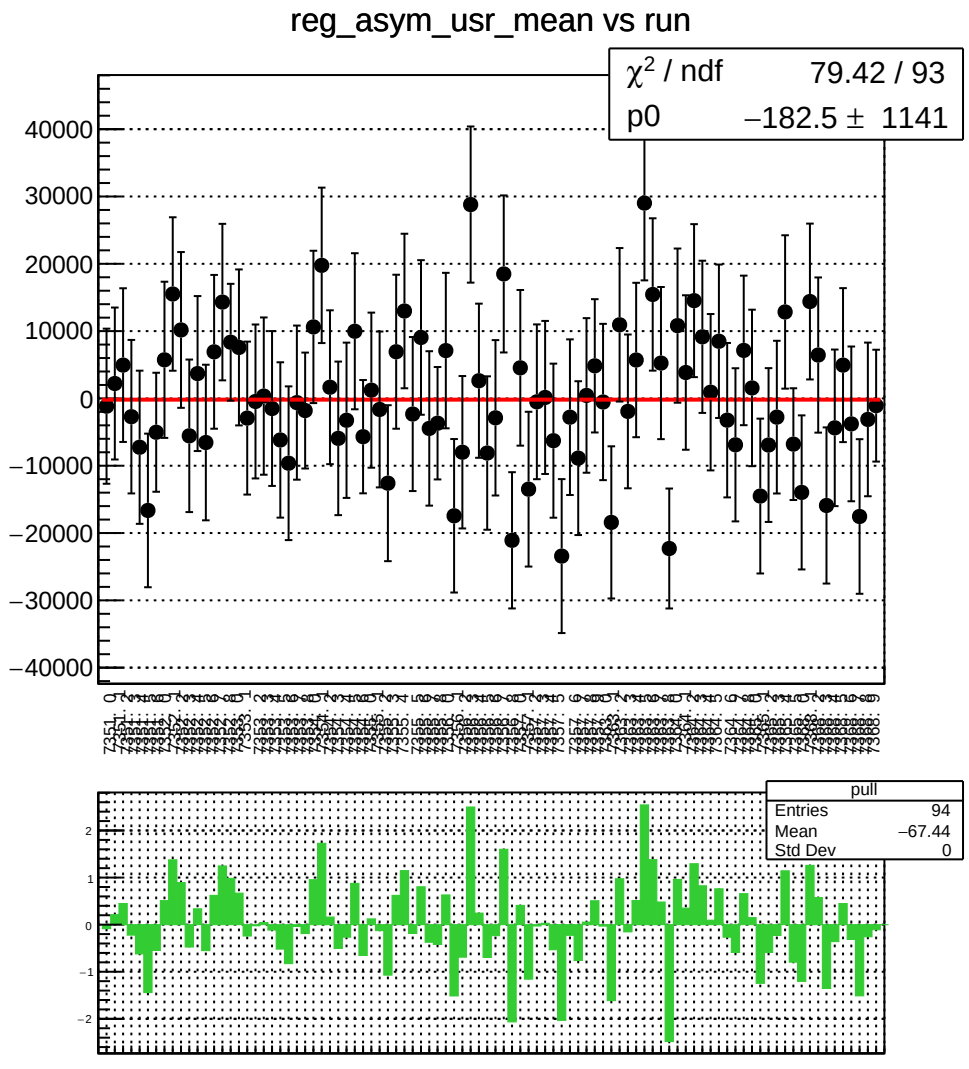

asym_usl_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.719e+05 / 93
p0 1.827e−11 ± 1.574e−14
0.1
0.08
0.06
0.04
0.02

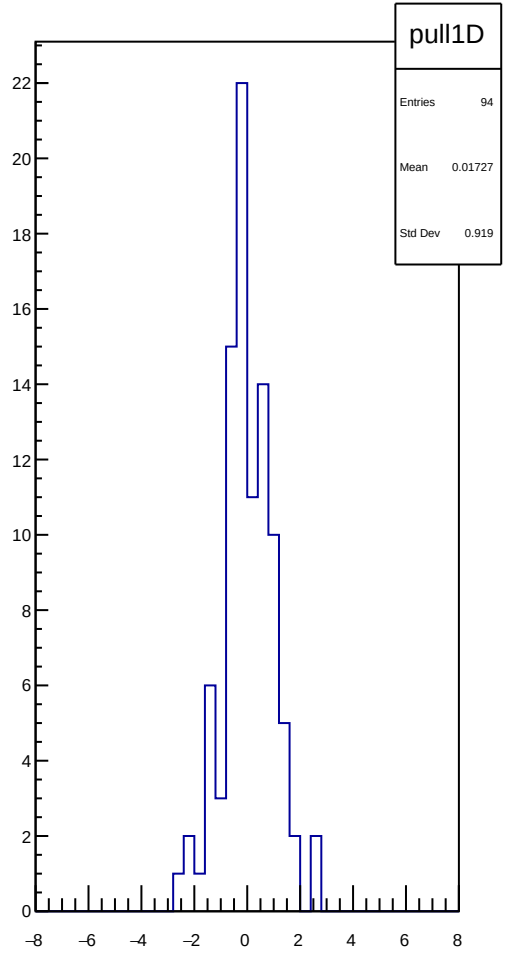

asym_usl_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 95.53 / 93
p0 0.03085 ± 0.04098
pull
Entries 94
Mean 227.1
Std Dev 0
pull1D
Entries 94
Mean −0.01323
Std Dev 1.008

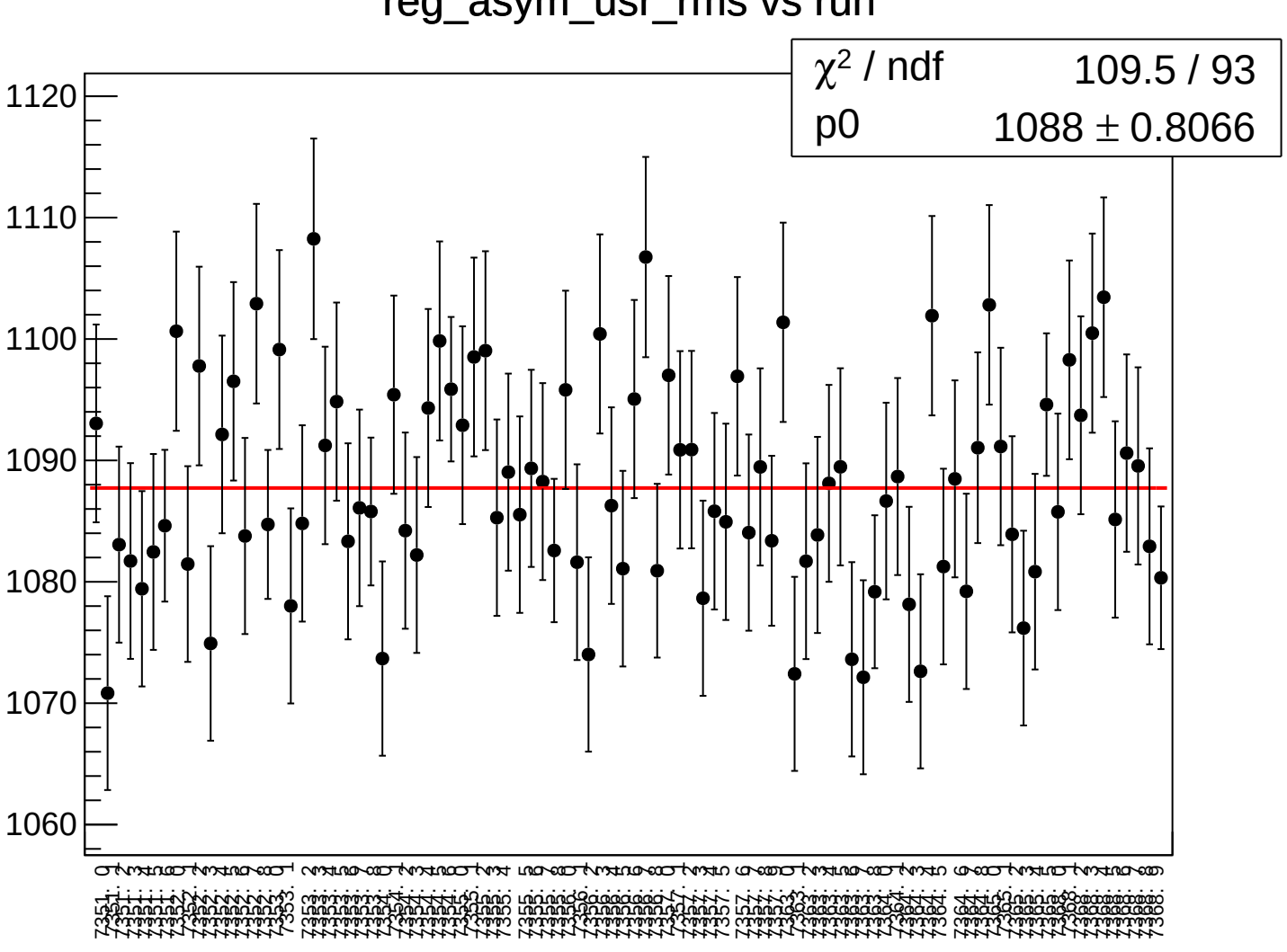

asym_usl_overload_cor_vs_cor_diff_rms vs run
χ^2 / ndf 9.49e+04 / 93
p0 38.04 ± 0.02897
80
70
60
50
40
30
20

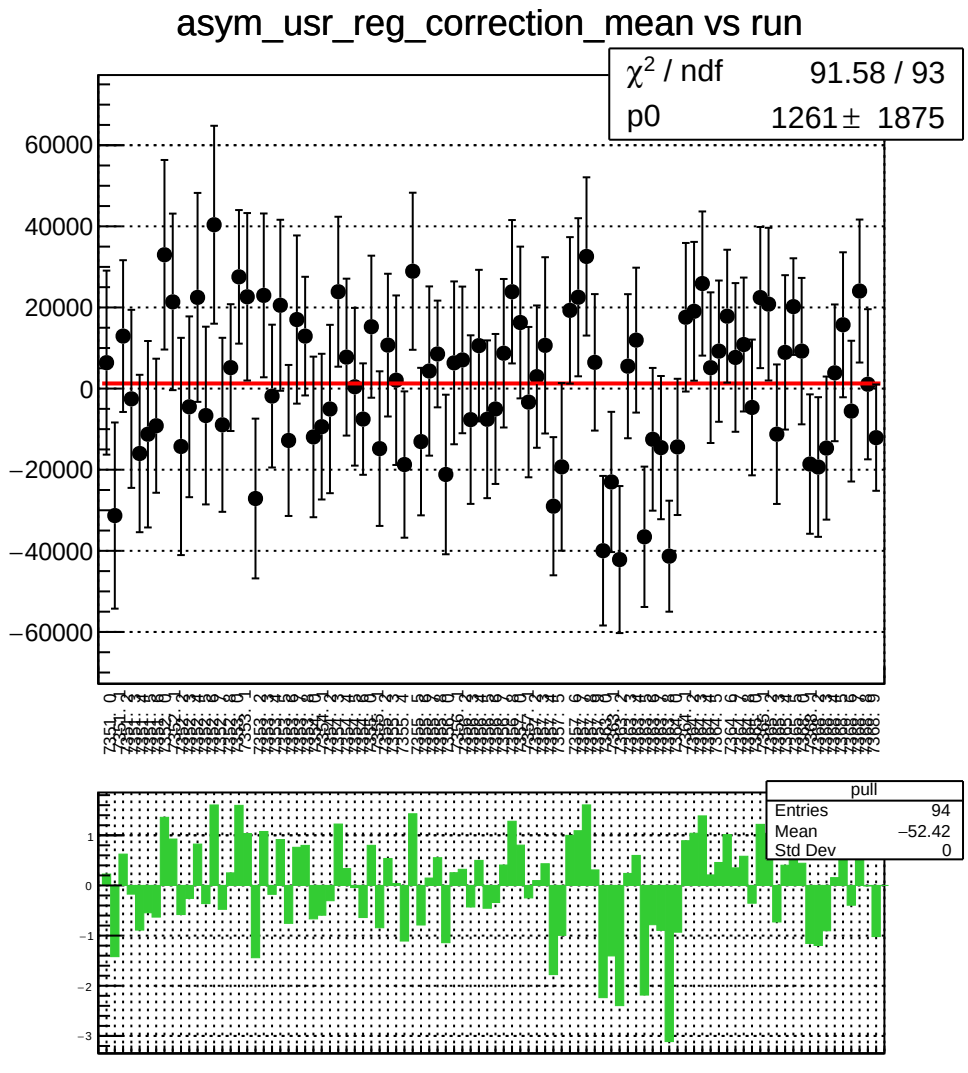

asym_usl_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.53 / 93
p0 0.03085 ± 0.04098
pull
Entries 94
Mean 227.1
Std Dev 0
pull1D
Entries 94
Mean −0.01323
Std Dev 1.008

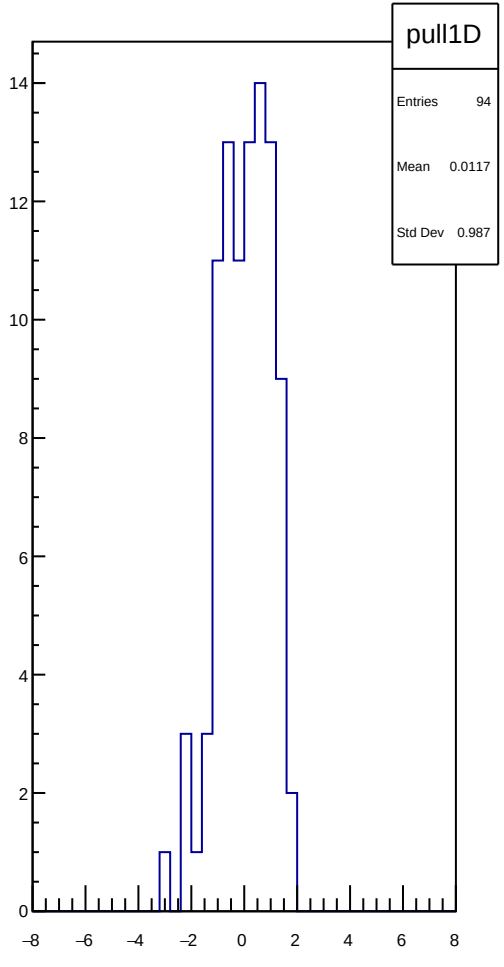

asym_usl_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.49e+04 / 93
p0 38.04 ± 0.02897
80
70
60
50
40
30
20

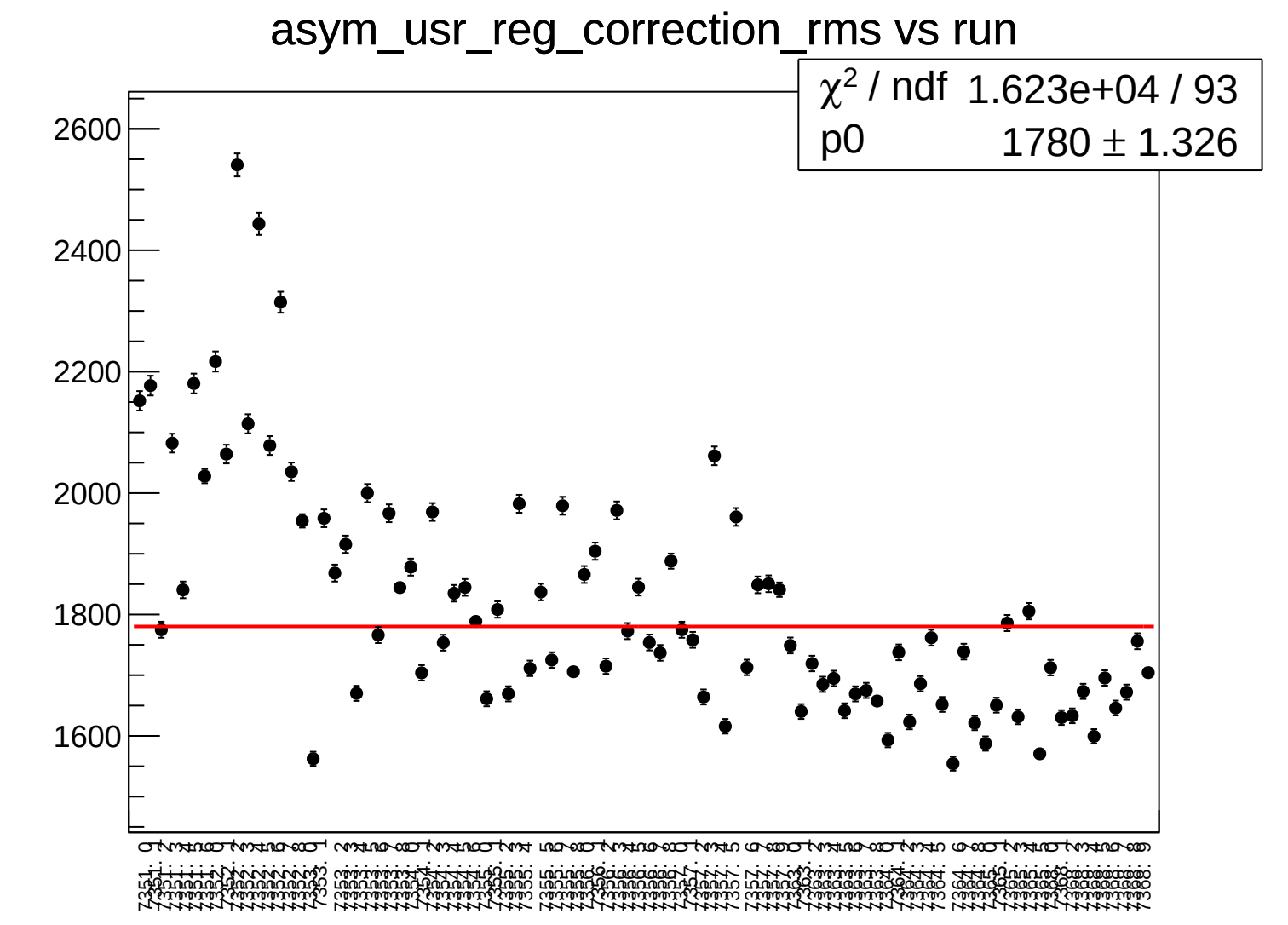

reg_asym_usr_mean vs run
χ² / ndf 79.42 / 93
p0 −182.5 ± 1141
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 94
Mean −67.44
Std Dev 0
2
1
0
−1
−2

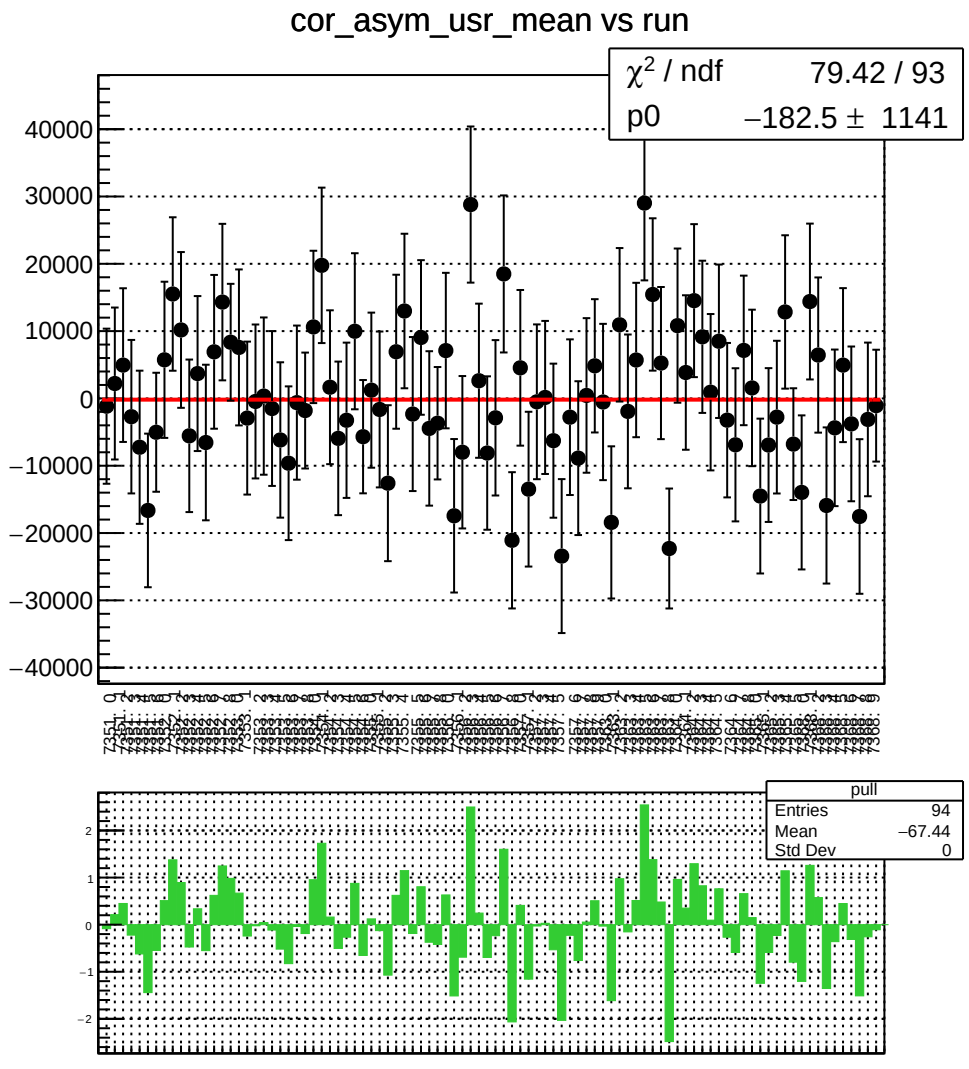

pull1D
Entries 94
Mean 0.01727
Std Dev 0.919
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

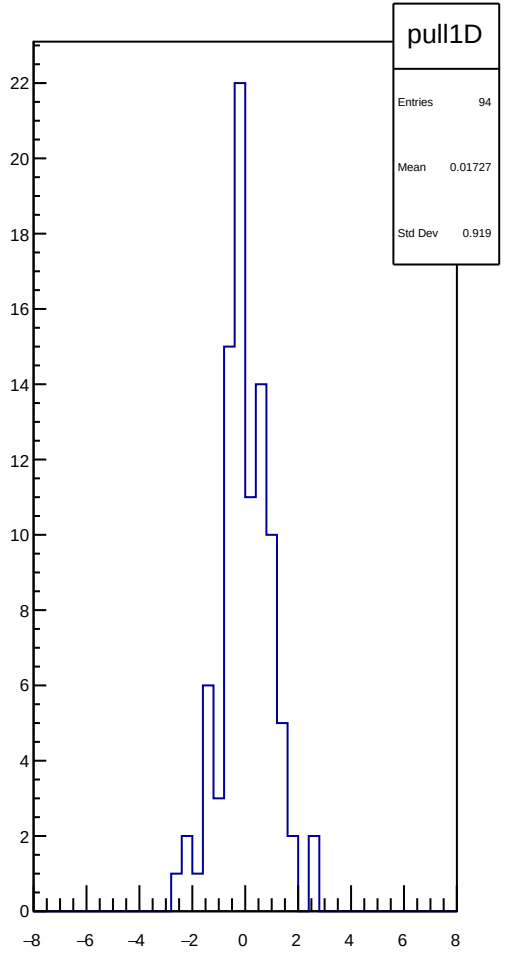

reg_asym_usr_rms vs run
χ² / ndf 109.5 / 93
p0 1088 ± 0.8066
1120
1110
1100
1090
1080
1070
1060

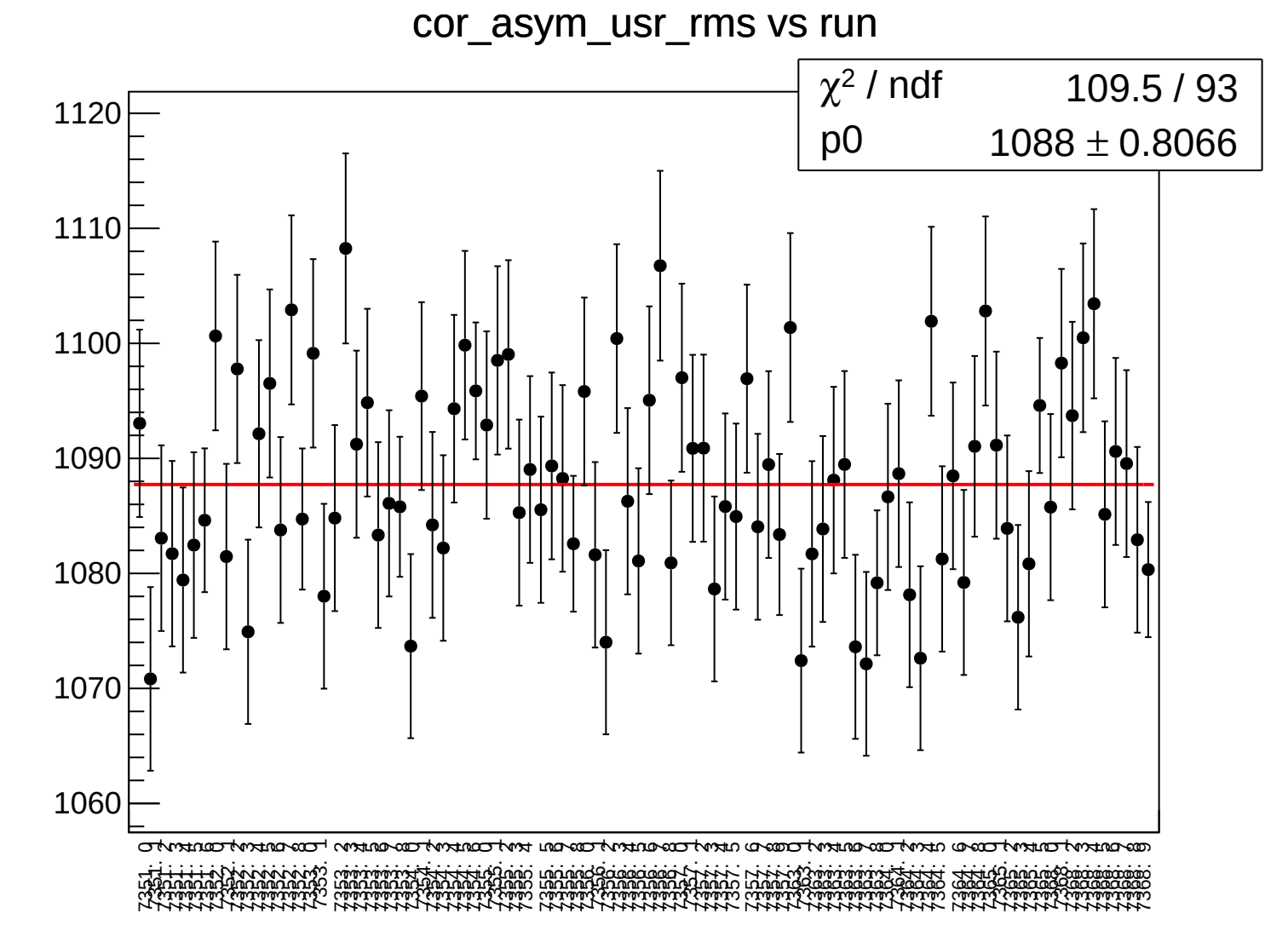

asym_usr_reg_correction_mean vs run
χ² / ndf 91.58 / 93
p0 1261 ± 1875
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −52.42
Std Dev 0
1
0
−1
−2
−3

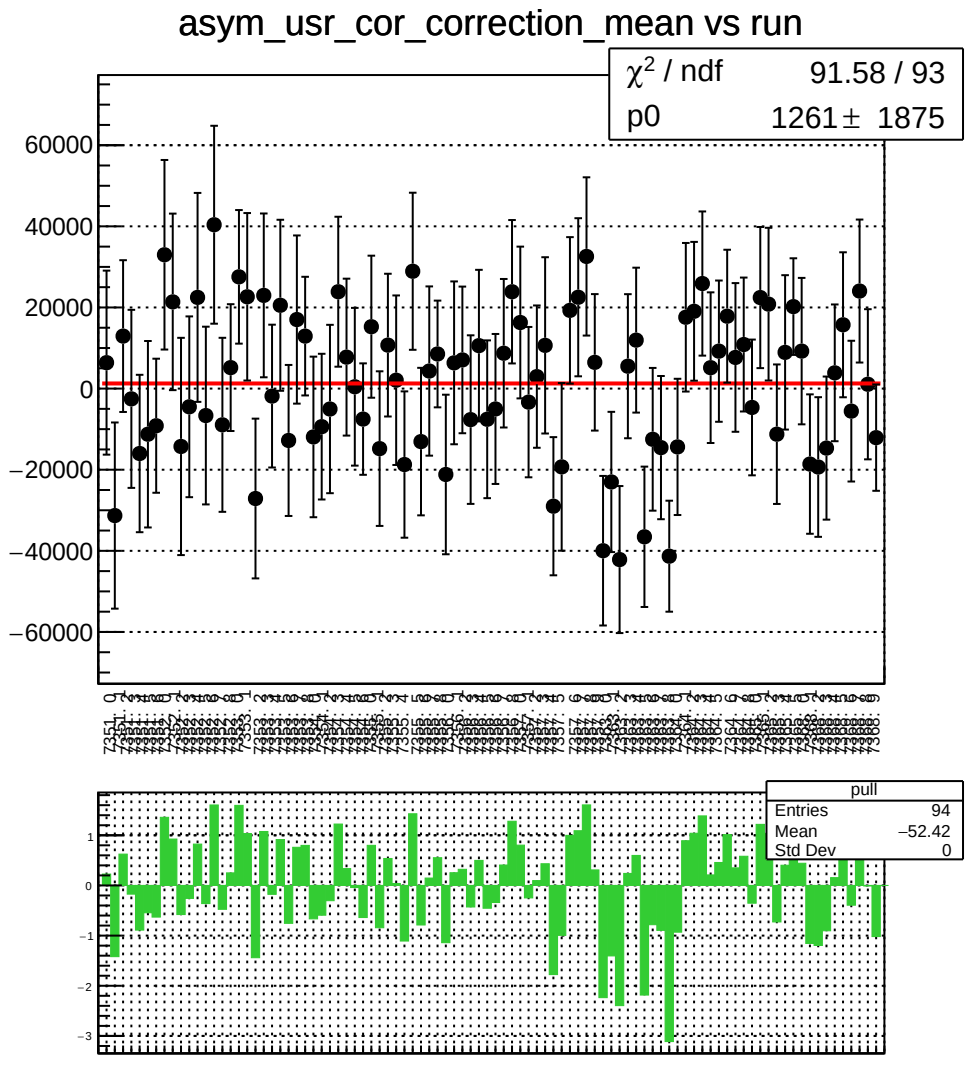

pull1D
Entries 94
Mean 0.0117
Std Dev 0.987
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

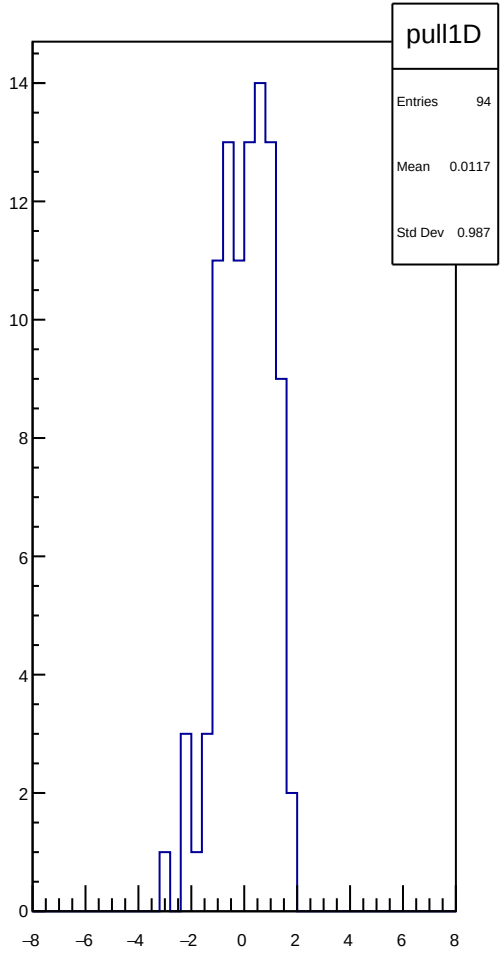

asym_usr_reg_correction_rms vs run
χ² / ndf 1.623e+04 / 93
p0 1780 ± 1.326
2600
2400
2200
2000
1800
1600


cor_asym_usr_mean vs run
χ² / ndf 79.42 / 93
p0 −182.5 ± 1141
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 94
Mean −67.44
Std Dev 0
2
1
0
−1
−2

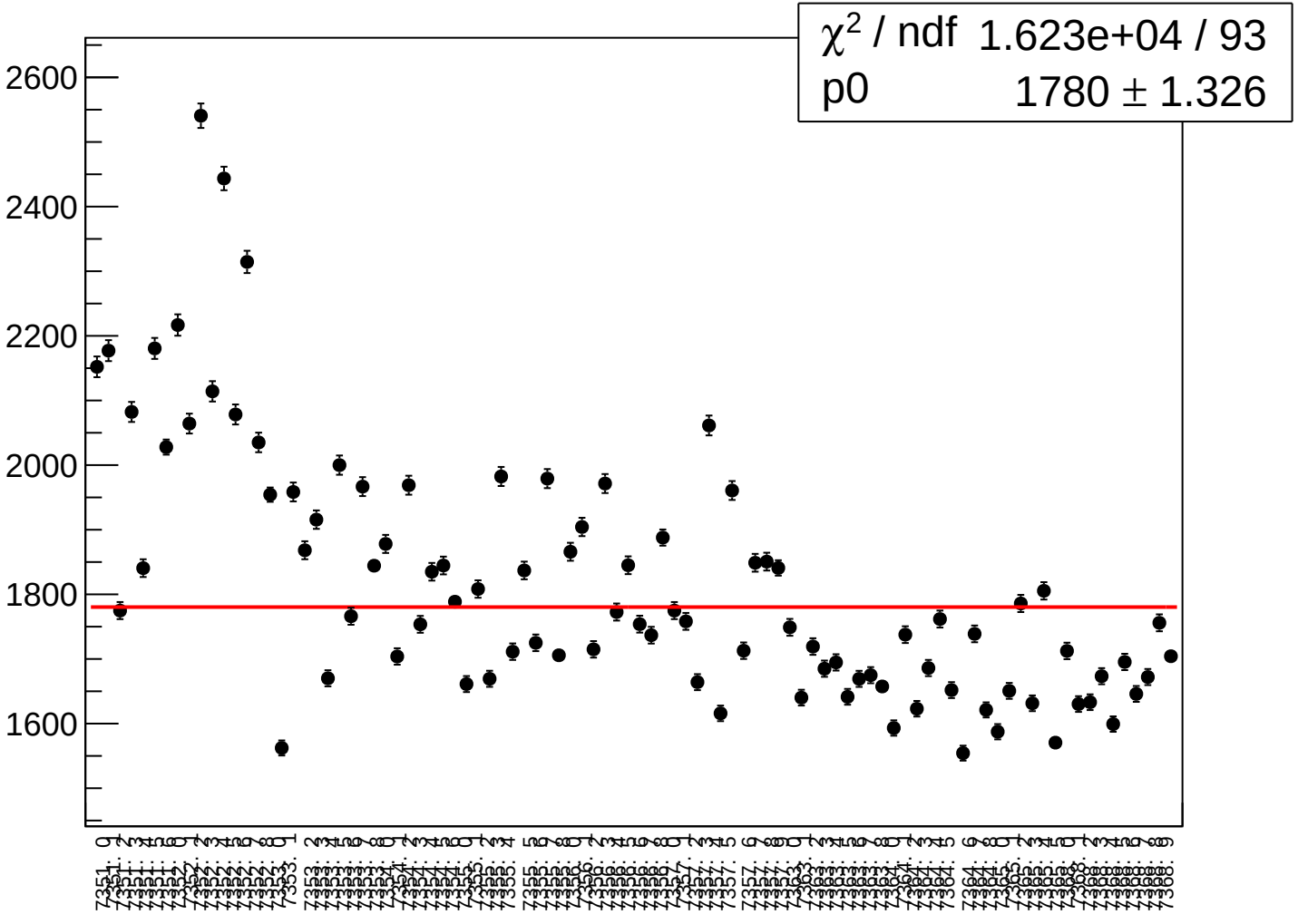

pull1D
Entries 94
Mean 0.01727
Std Dev 0.919
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

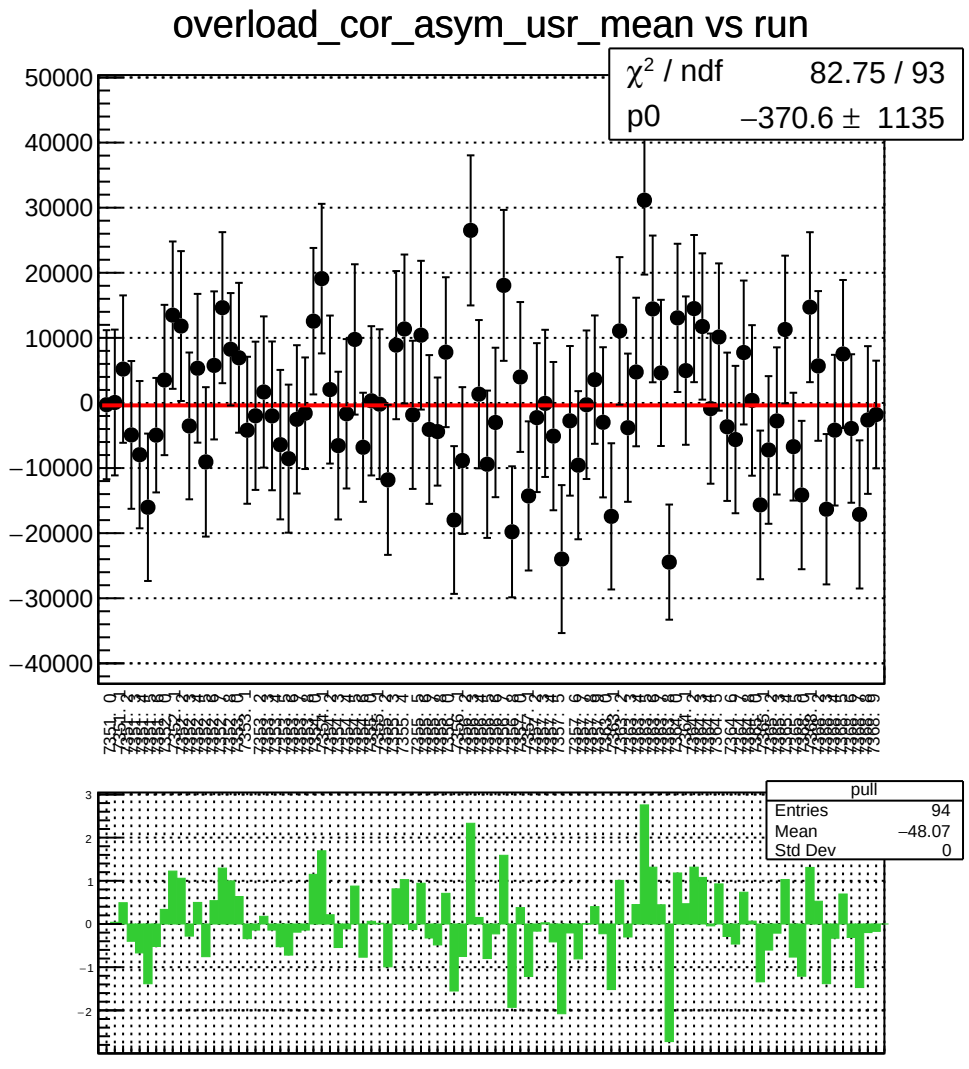

cor_asym_usr_rms vs run
χ² / ndf 109.5 / 93
p0 1088 ± 0.8066
1120
1110
1100
1090
1080
1070
1060

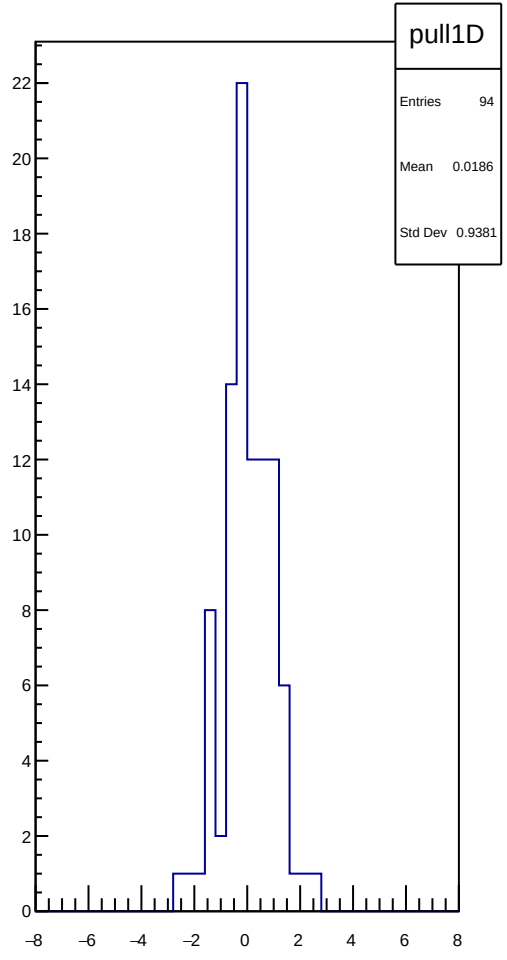

asym_usr_cor_correction_mean vs run
χ² / ndf 91.58 / 93
p0 1261 ± 1875
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −52.42
Std Dev 0
1
0
−1
−2
−3

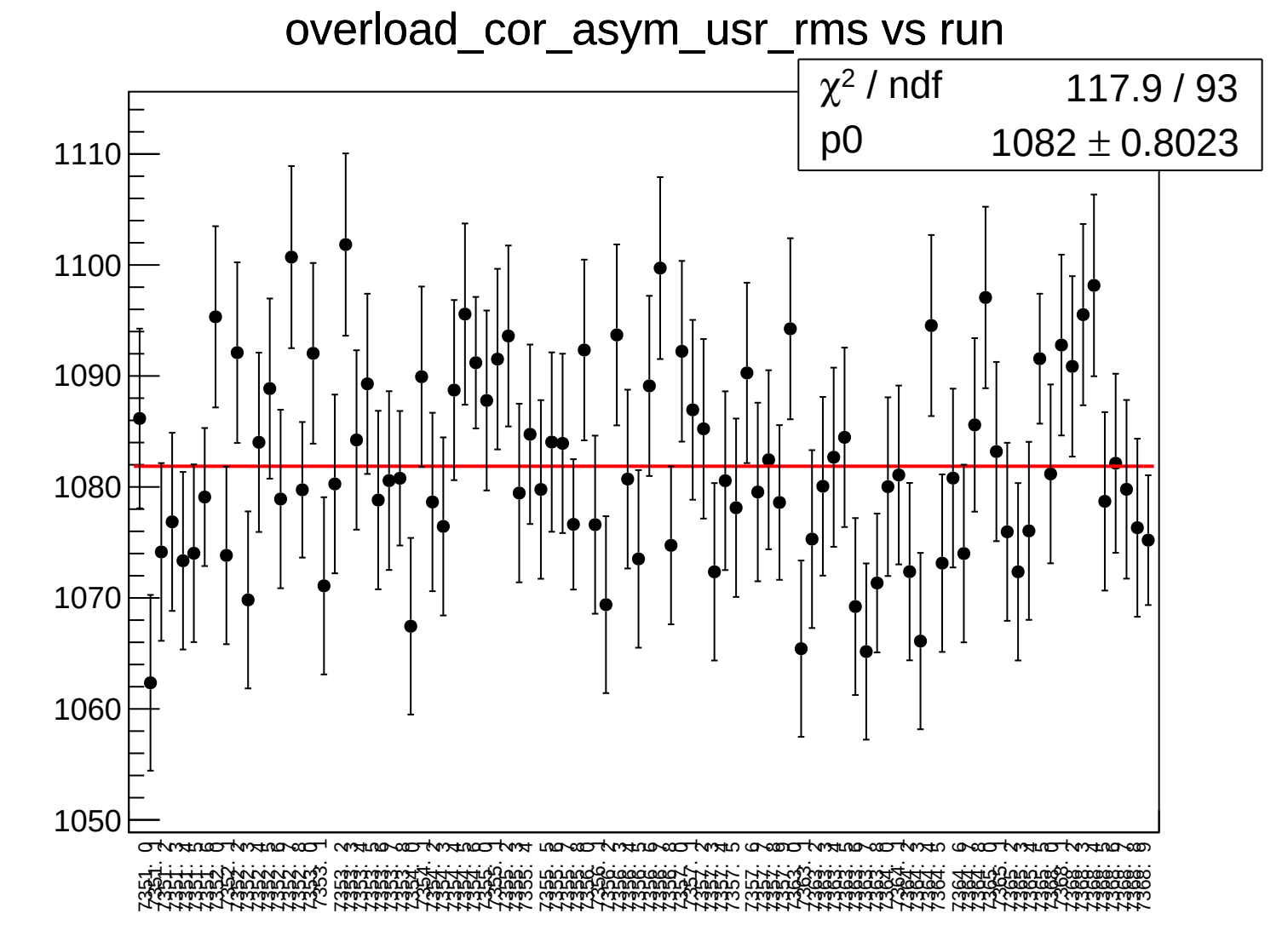

pull1D
Entries 94
Mean 0.0117
Std Dev 0.987
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

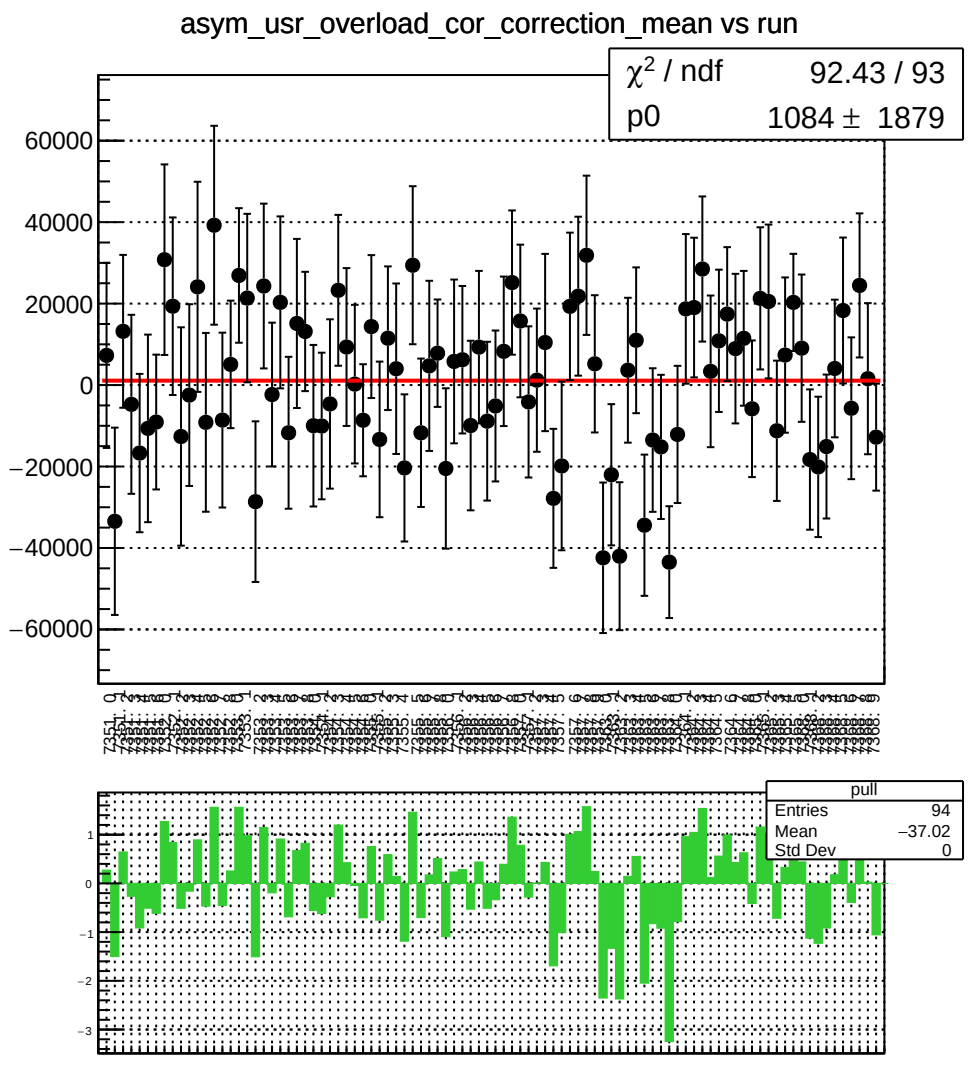
asym_usr_cor_correction_rms vs run

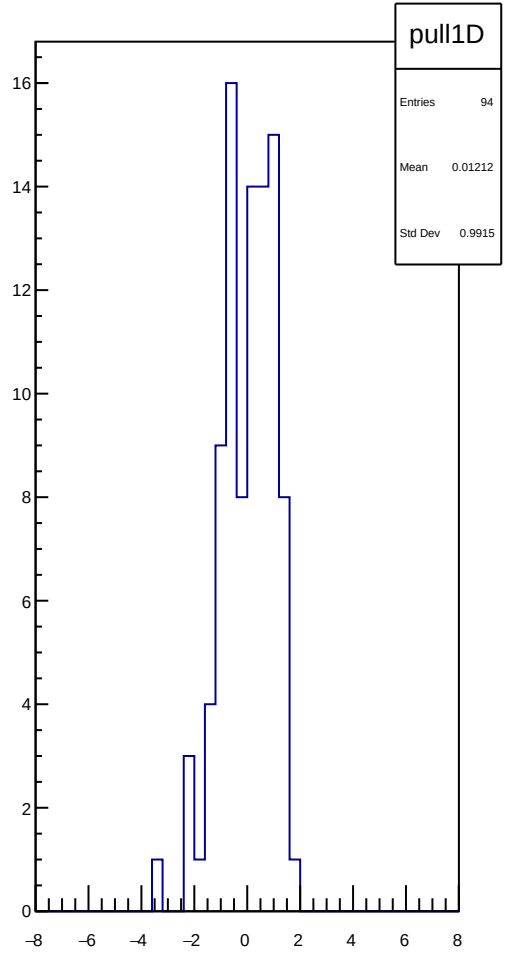


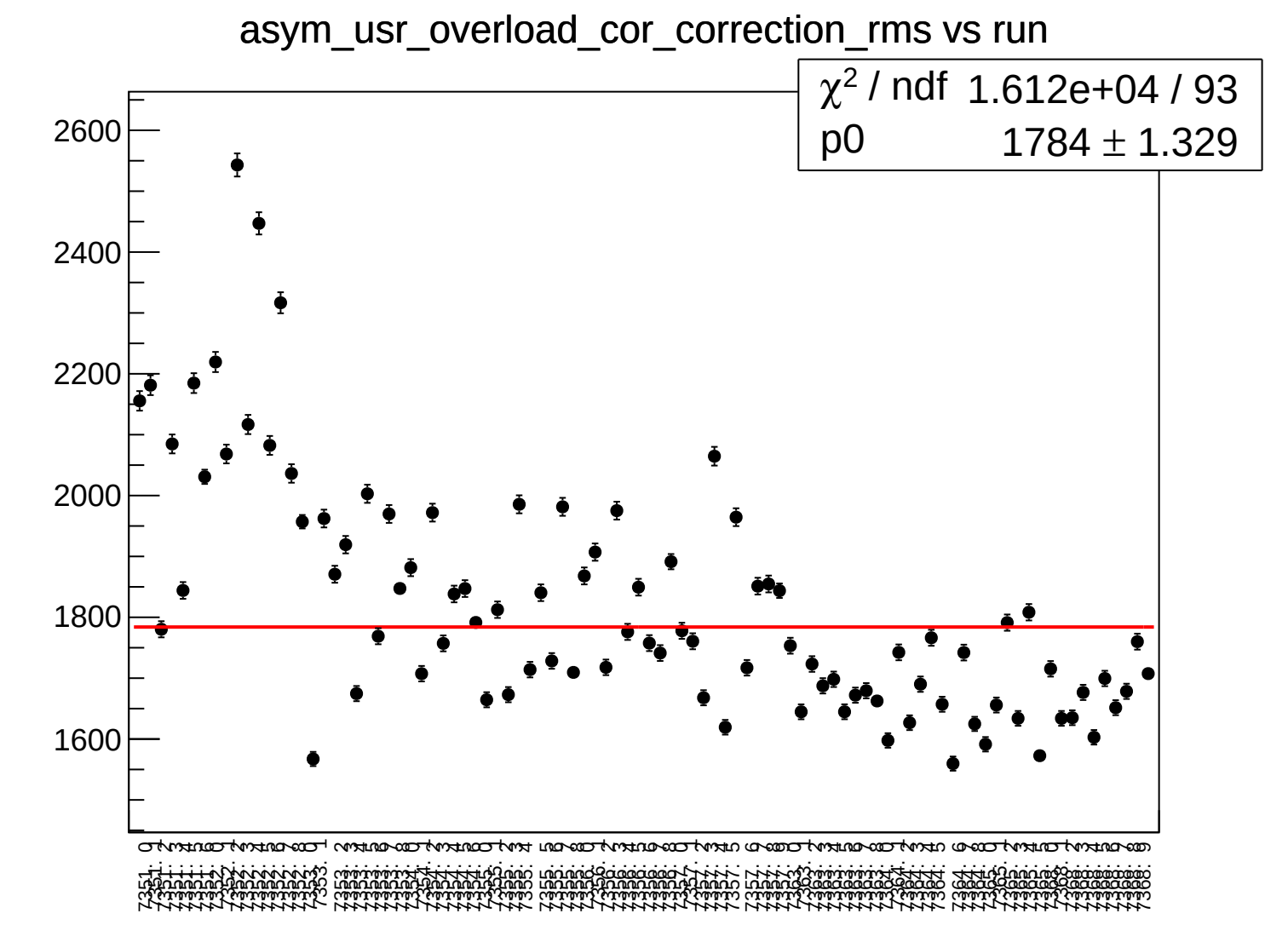

overload_cor_asym_usr_mean vs run
χ² / ndf 82.75 / 93
p0 −370.6 ± 1135
pull
Entries 94
Mean −48.07
Std Dev 0

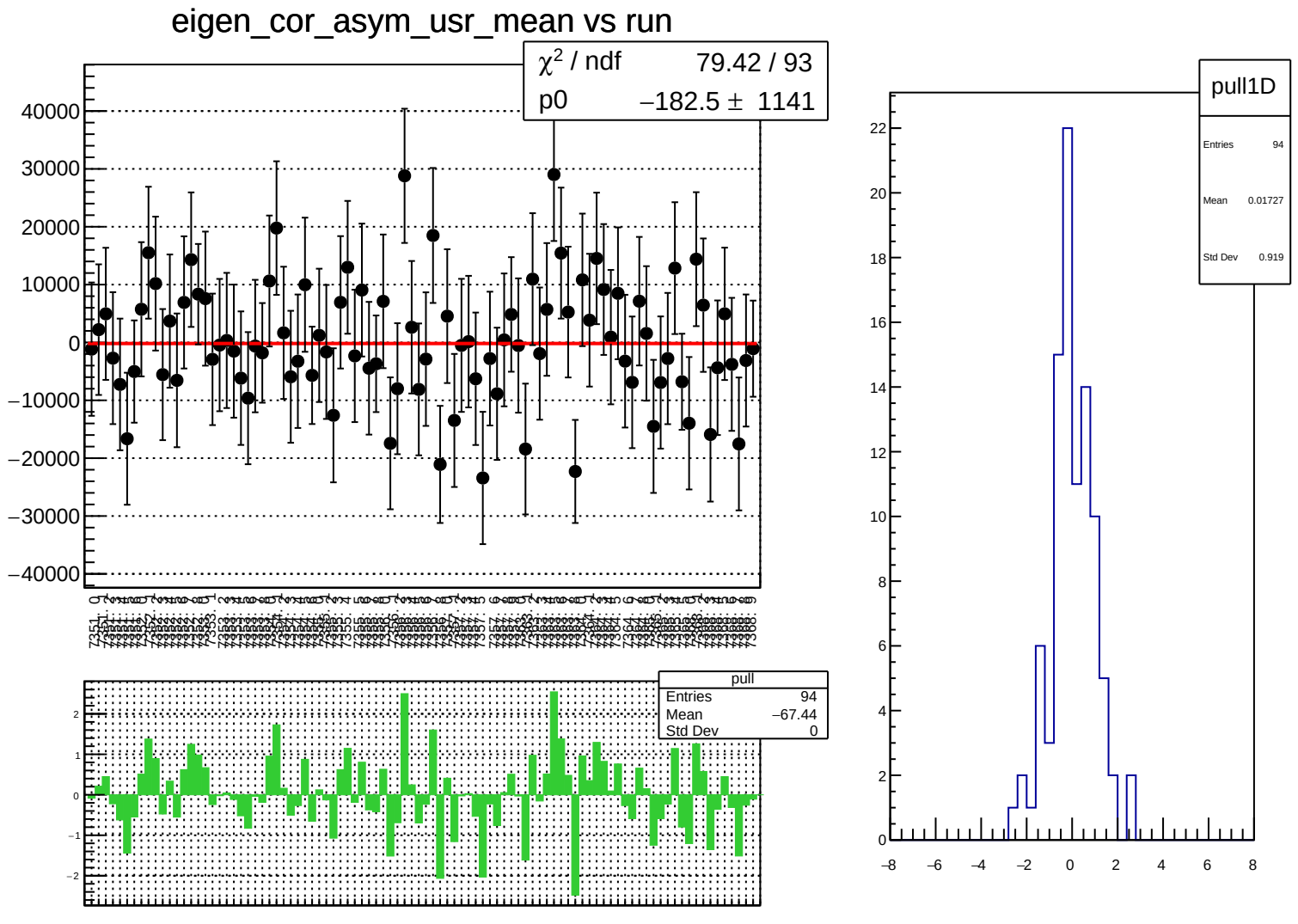

pull1D
Entries 94
Mean 0.0186
Std Dev 0.9381

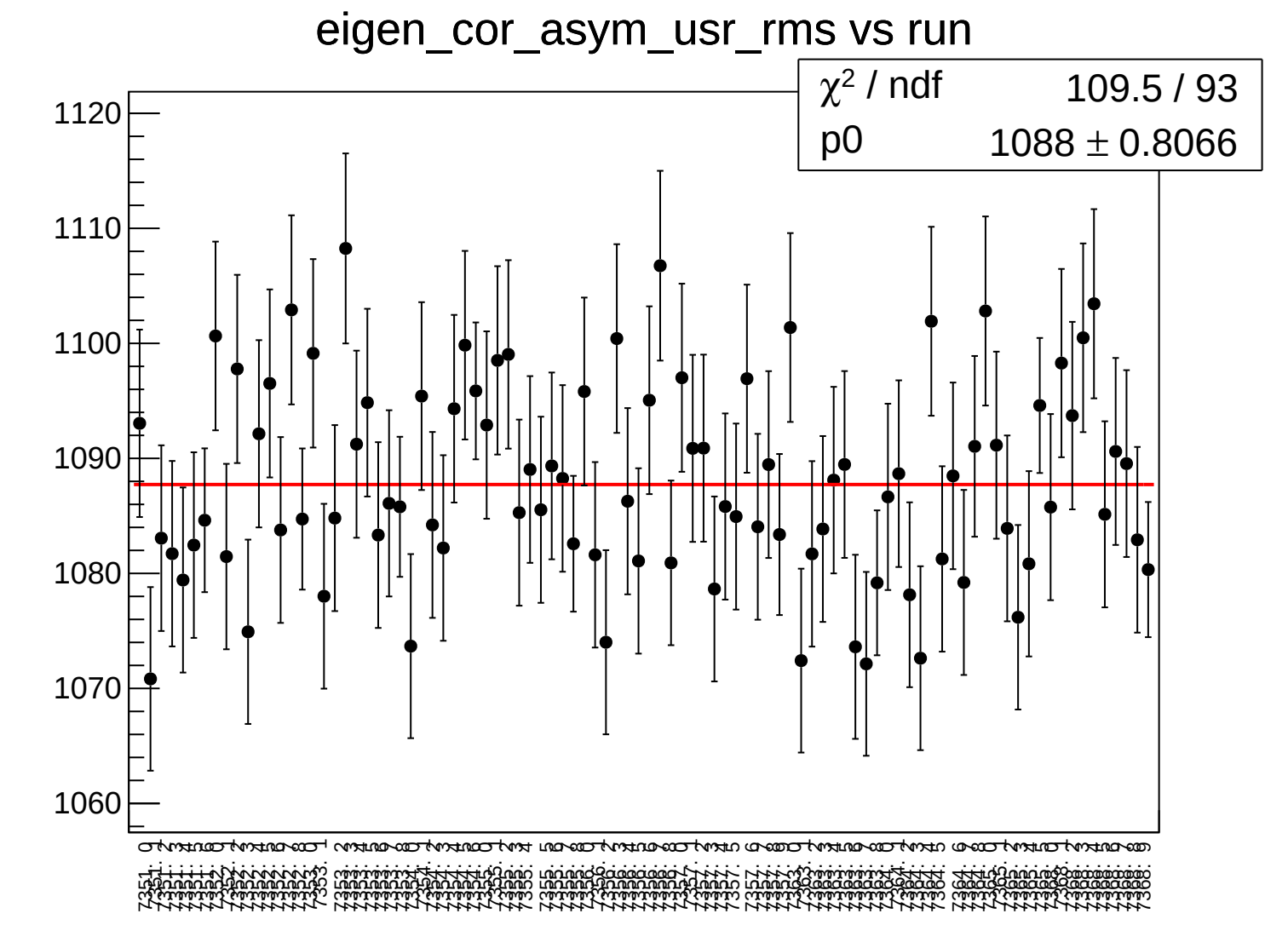

overload_cor_asym_usr_rms vs run
χ² / ndf 117.9 / 93
p0 1082 ± 0.8023
1110
1100
1090
1080
1070
1060
1050

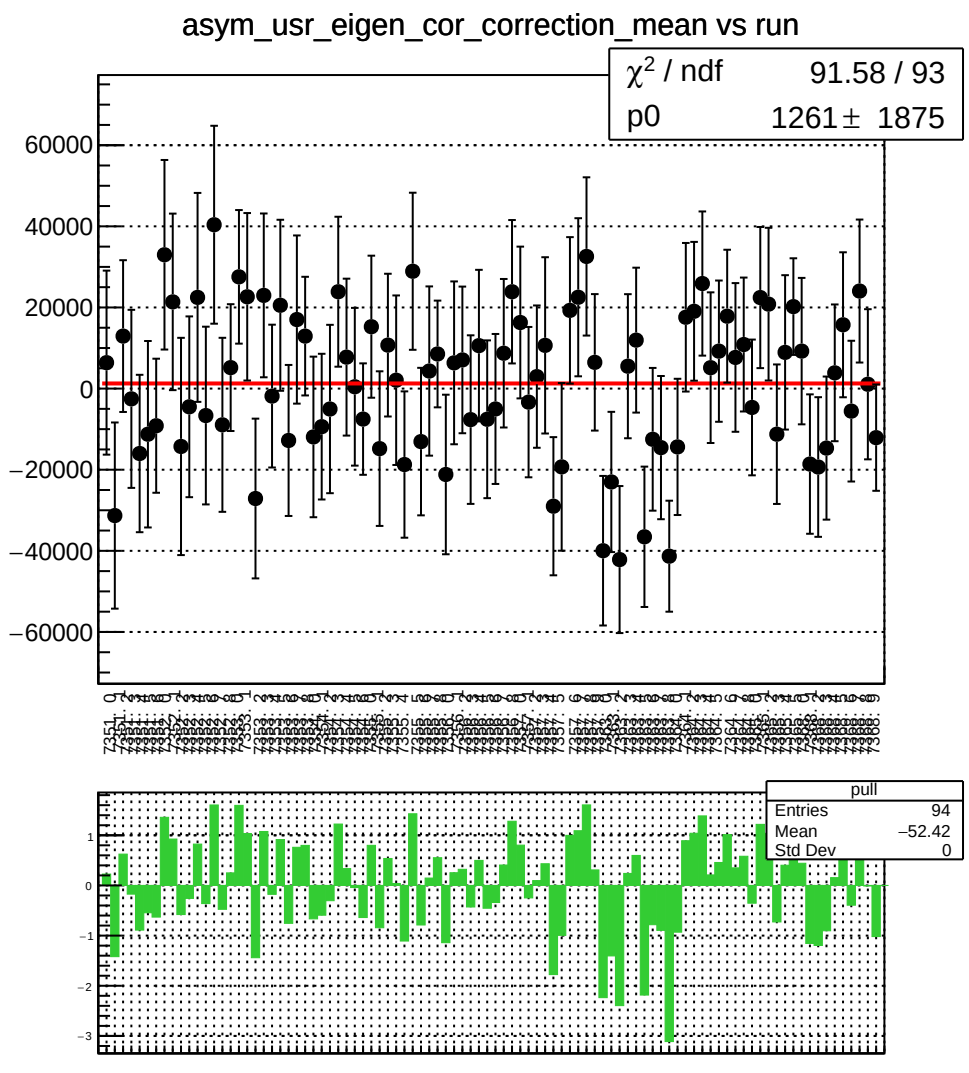

asym_usr_overload_cor_correction_mean vs run
χ² / ndf 92.43 / 93
p0 1084 ± 1879
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −37.02
Std Dev 0
1
0
−1
−2
−3

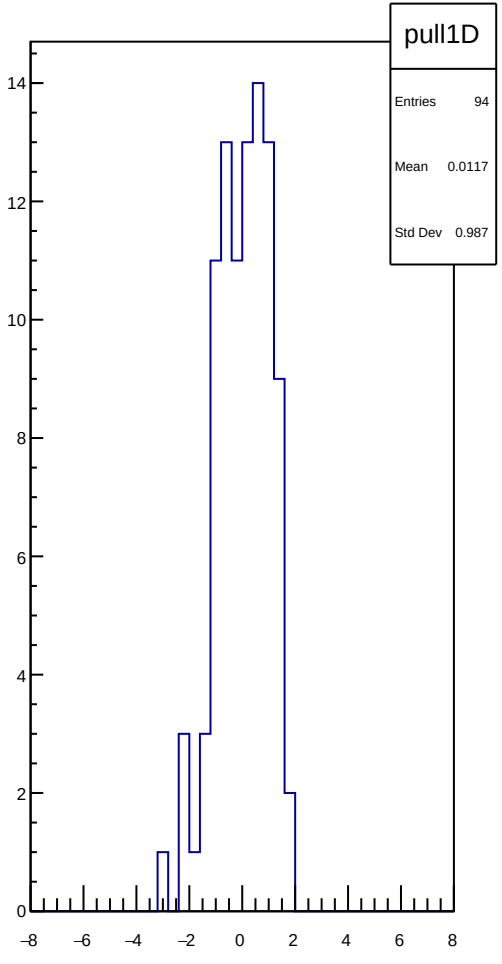

pull1D
Entries 94
Mean 0.01212
Std Dev 0.9915
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

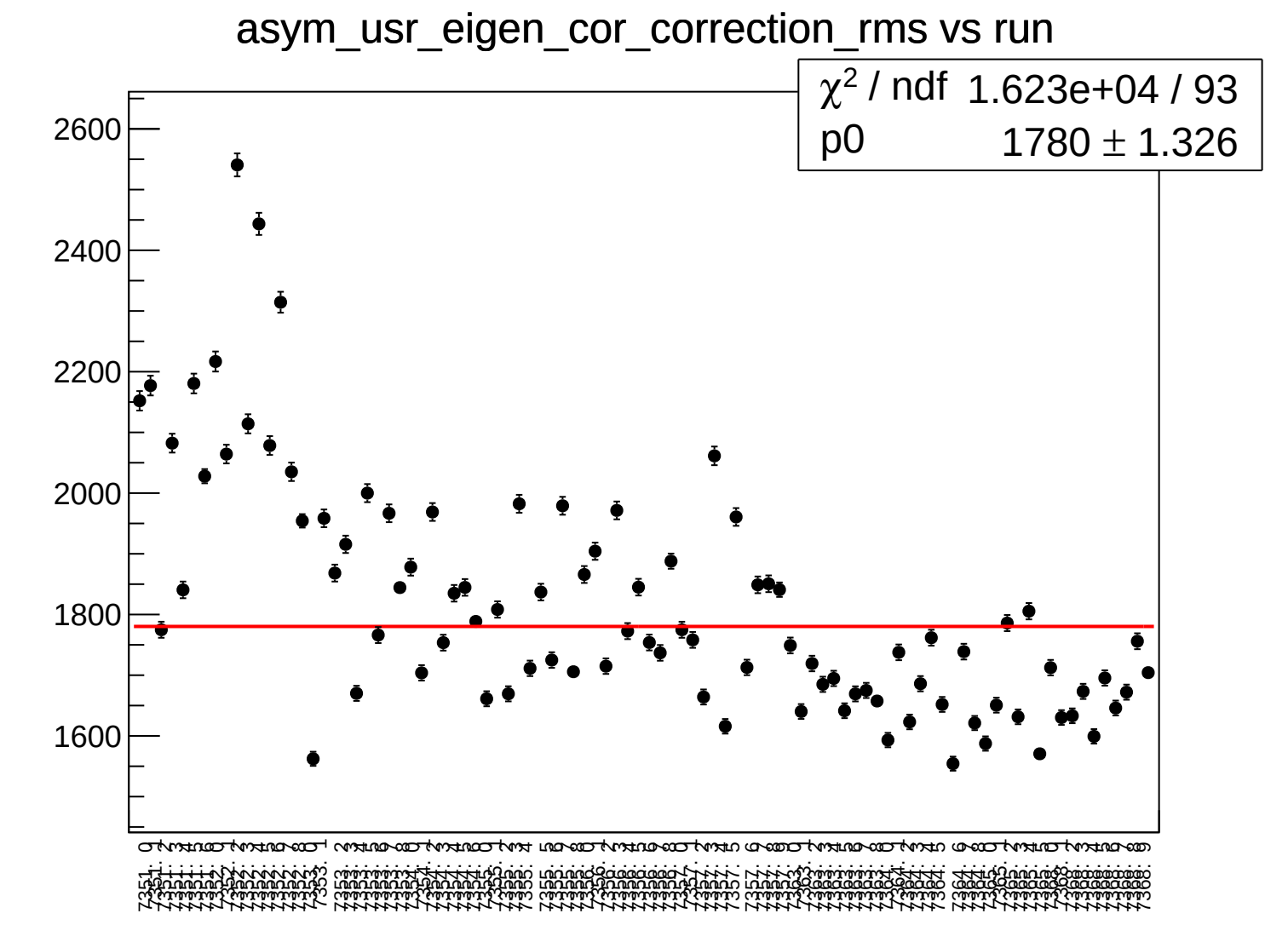

asym_usr_overload_cor_correction_rms vs run
χ² / ndf 1.612e+04 / 93
p0 1784 ± 1.329
2600
2400
2200
2000
1800
1600

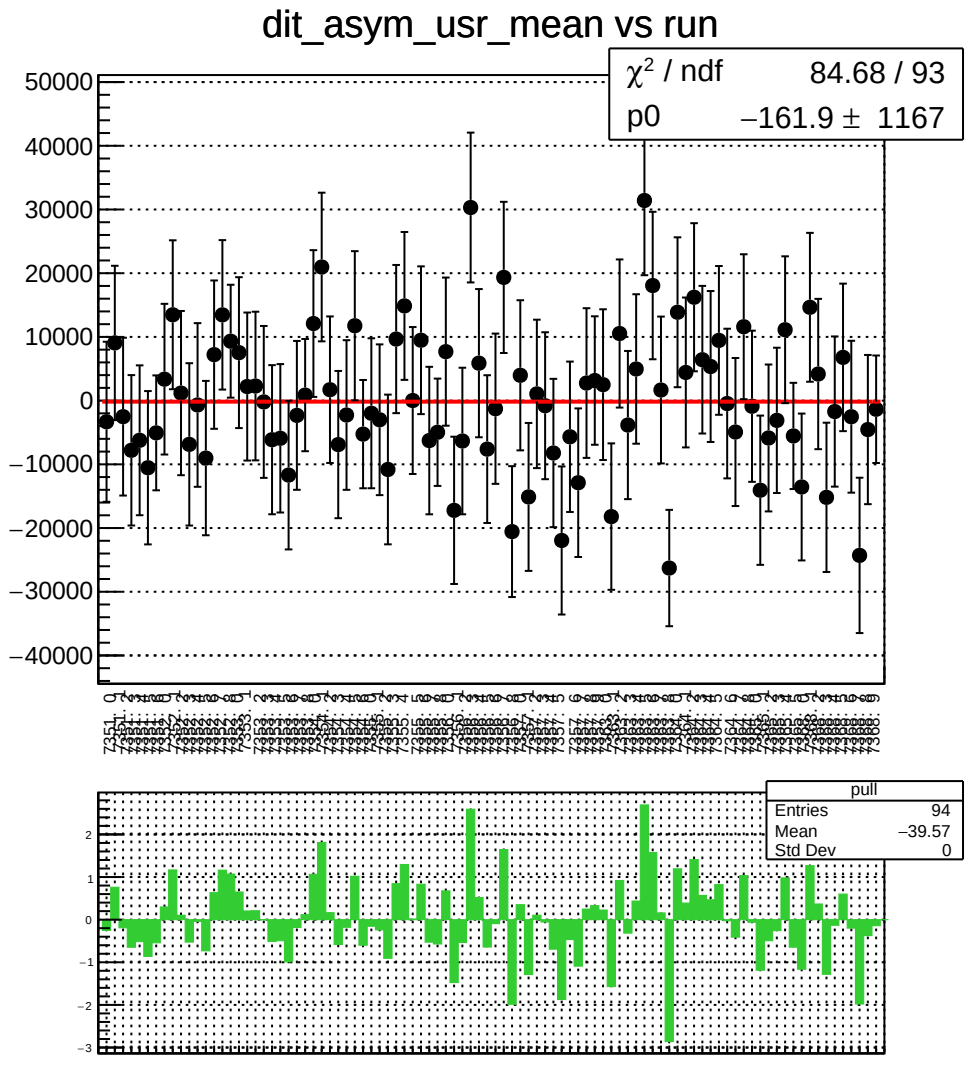

eigen_cor_asym_usr_mean vs run
χ² / ndf 79.42 / 93
p0 −182.5 ± 1141
pull
Entries 94
Mean −67.44
Std Dev 0
pull1D
Entries 94
Mean 0.01727
Std Dev 0.919

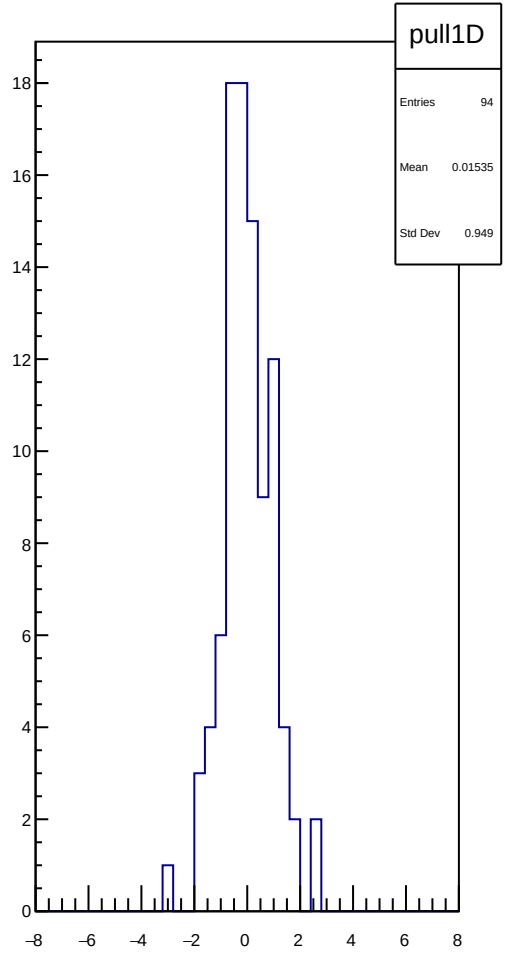

eigen_cor_asym_usr_rms vs run
χ^2 / ndf 109.5 / 93
p0 1088 ± 0.8066
1120
1110
1100
1090
1080
1070
1060

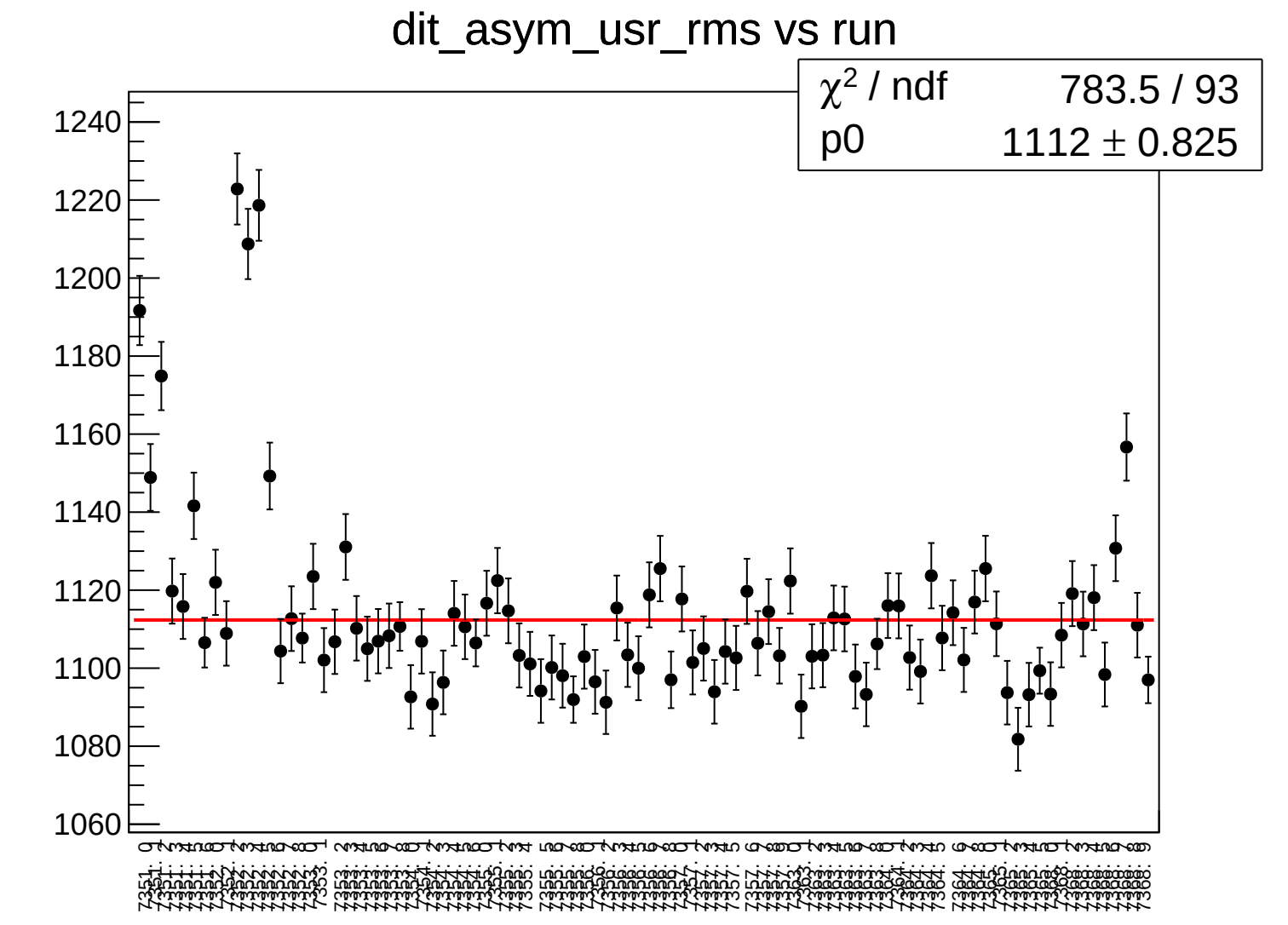

asym_usr_eigen_cor_correction_mean vs run
χ² / ndf 91.58 / 93
p0 1261 ± 1875
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −52.42
Std Dev 0
1
0
−1
−2
−3

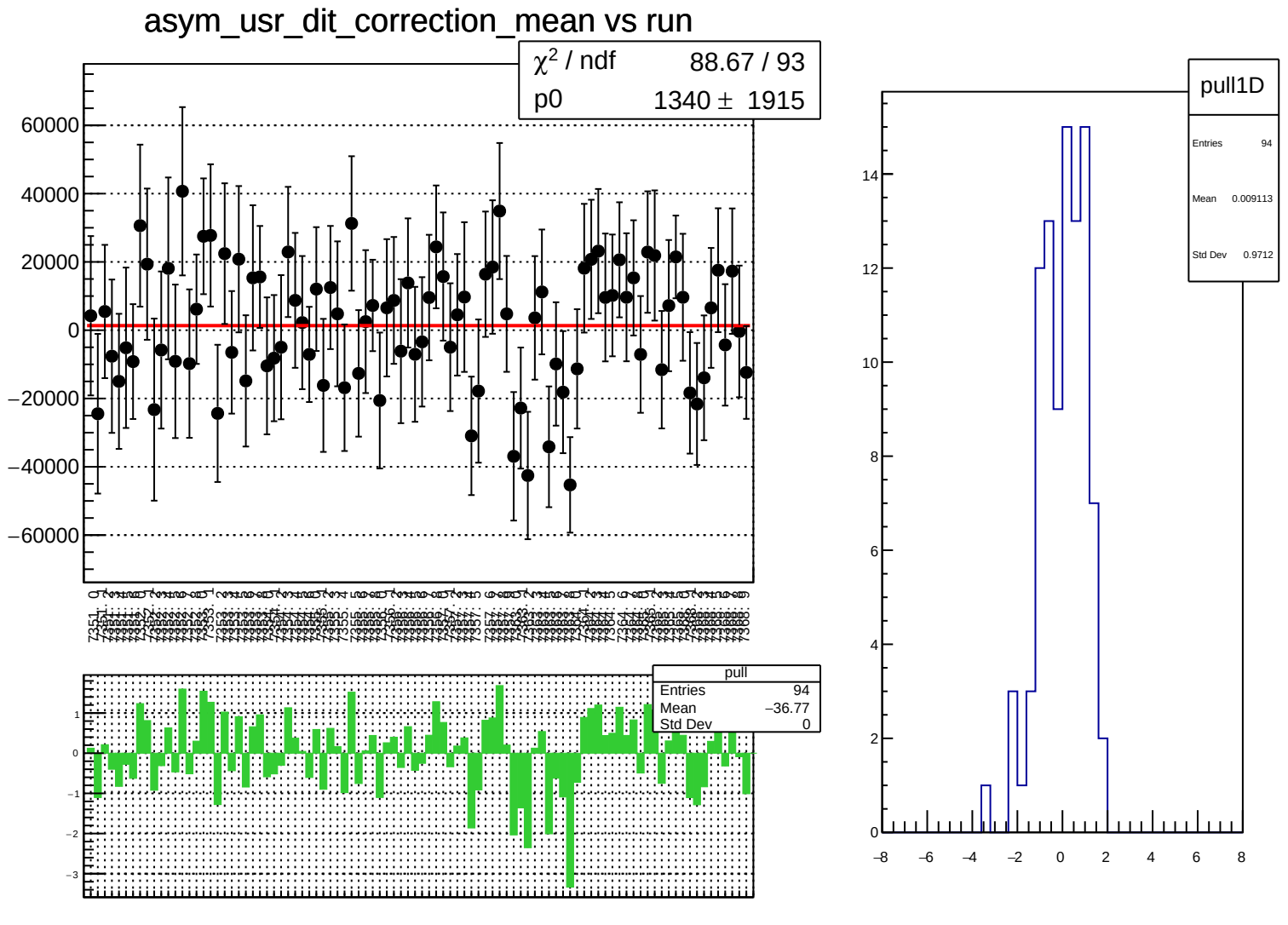

pull1D
Entries 94
Mean 0.0117
Std Dev 0.987
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_eigen_cor_correction_rms vs run
χ² / ndf 1.623e+04 / 93
p0 1780 ± 1.326
2600
2400
2200
2000
1800
1600

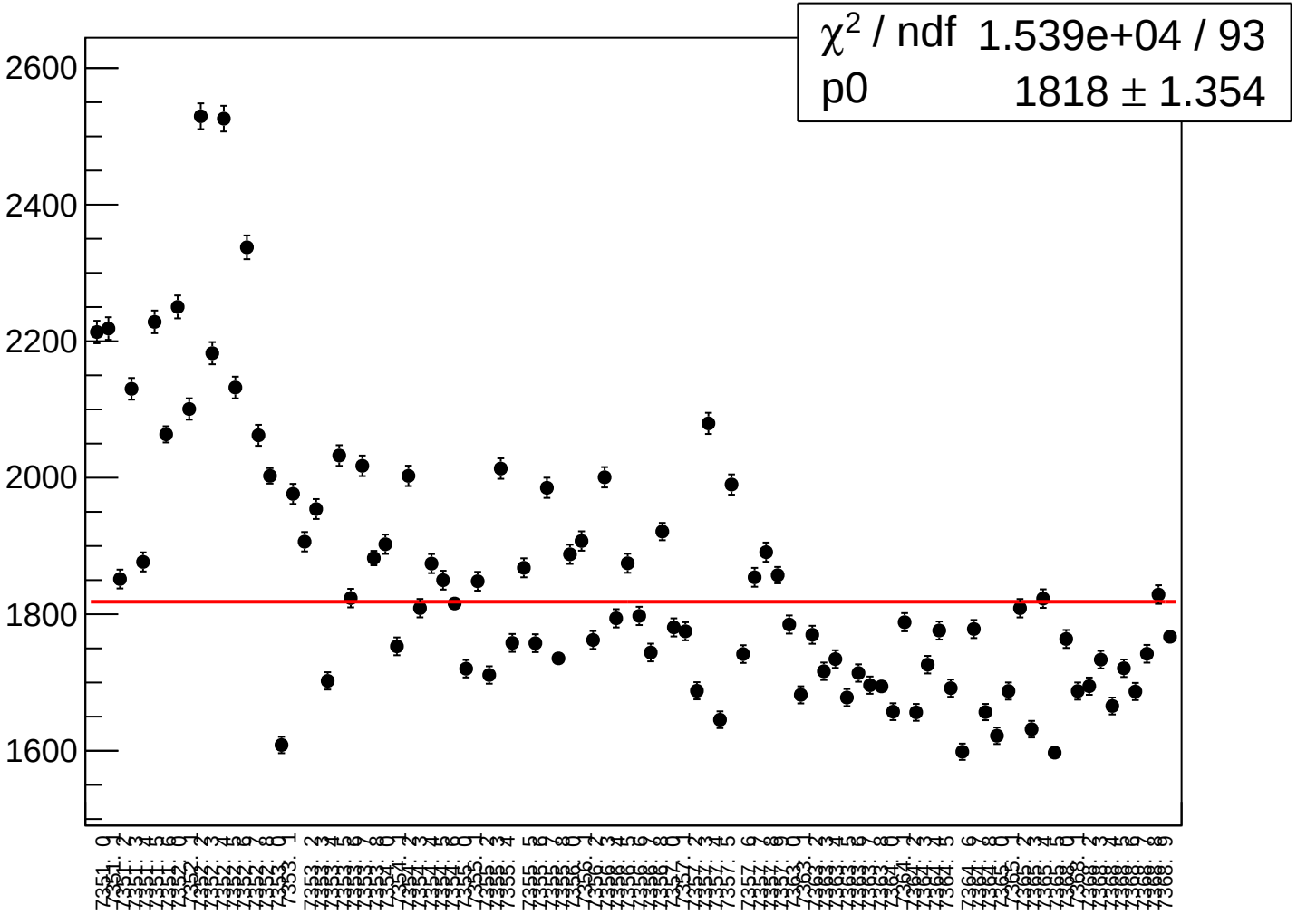

dit_asym_usr_mean vs run
χ² / ndf 84.68 / 93
p0 −161.9 ± 1167
pull
Entries 94
Mean −39.57
Std Dev 0

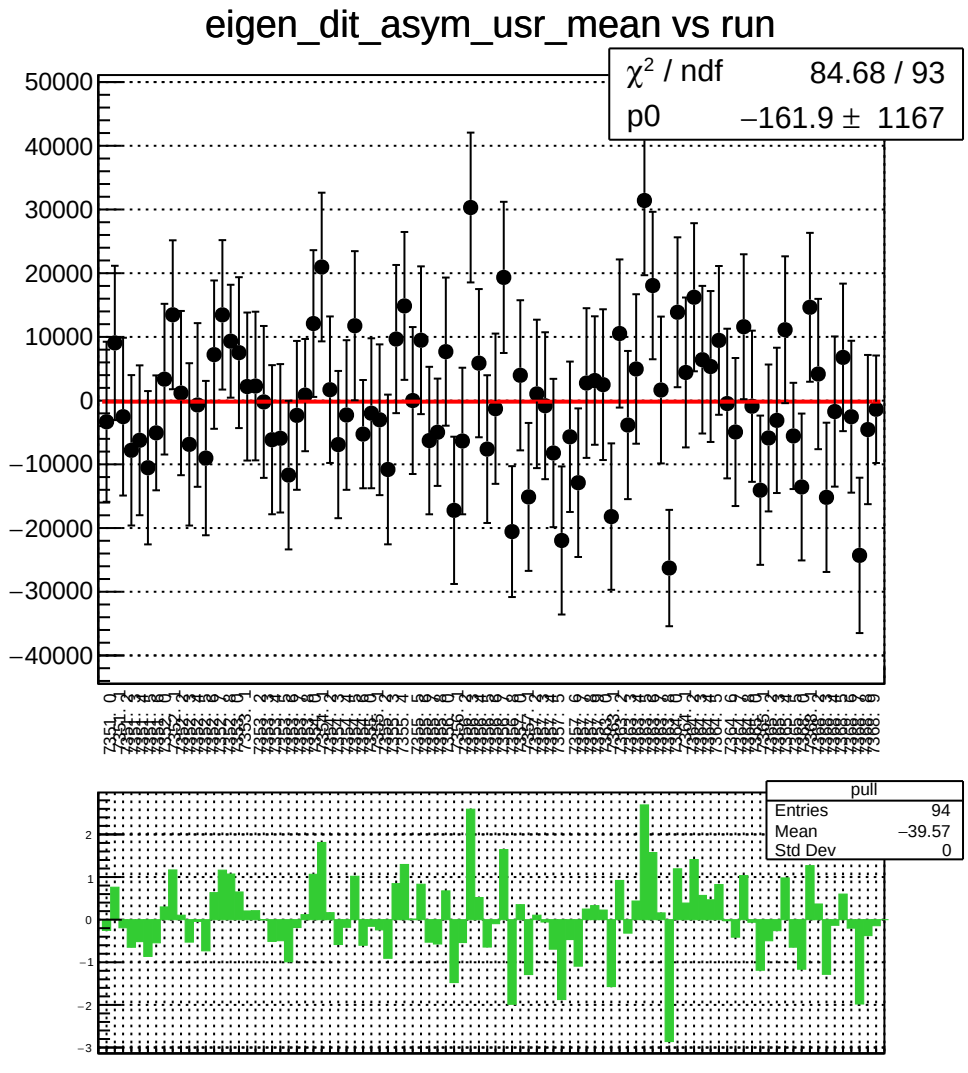

pull1D
Entries 94
Mean 0.01535
Std Dev 0.949

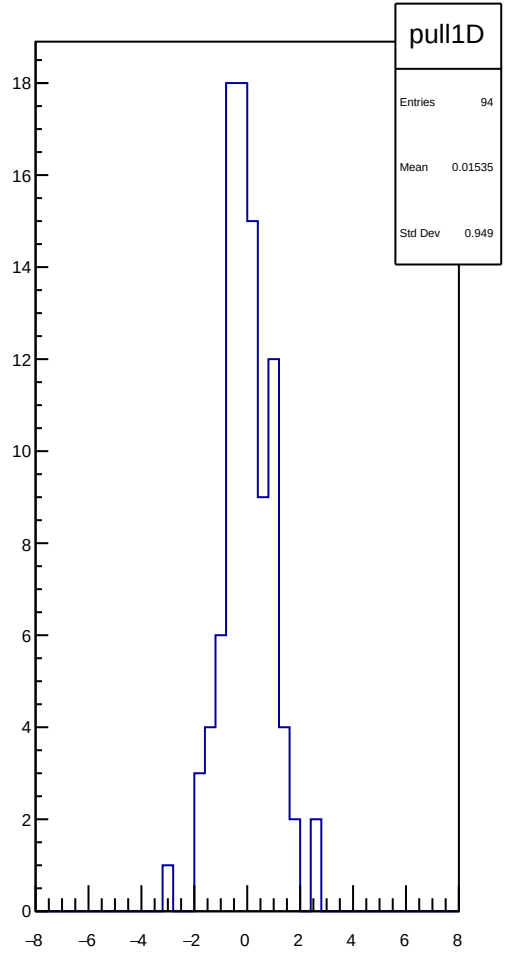

dit_asym_usr_rms vs run
χ^2 / ndf 783.5 / 93
p0 1112 ± 0.825
1240
1220
1200
1180
1160
1140
1120
1100
1080
1060

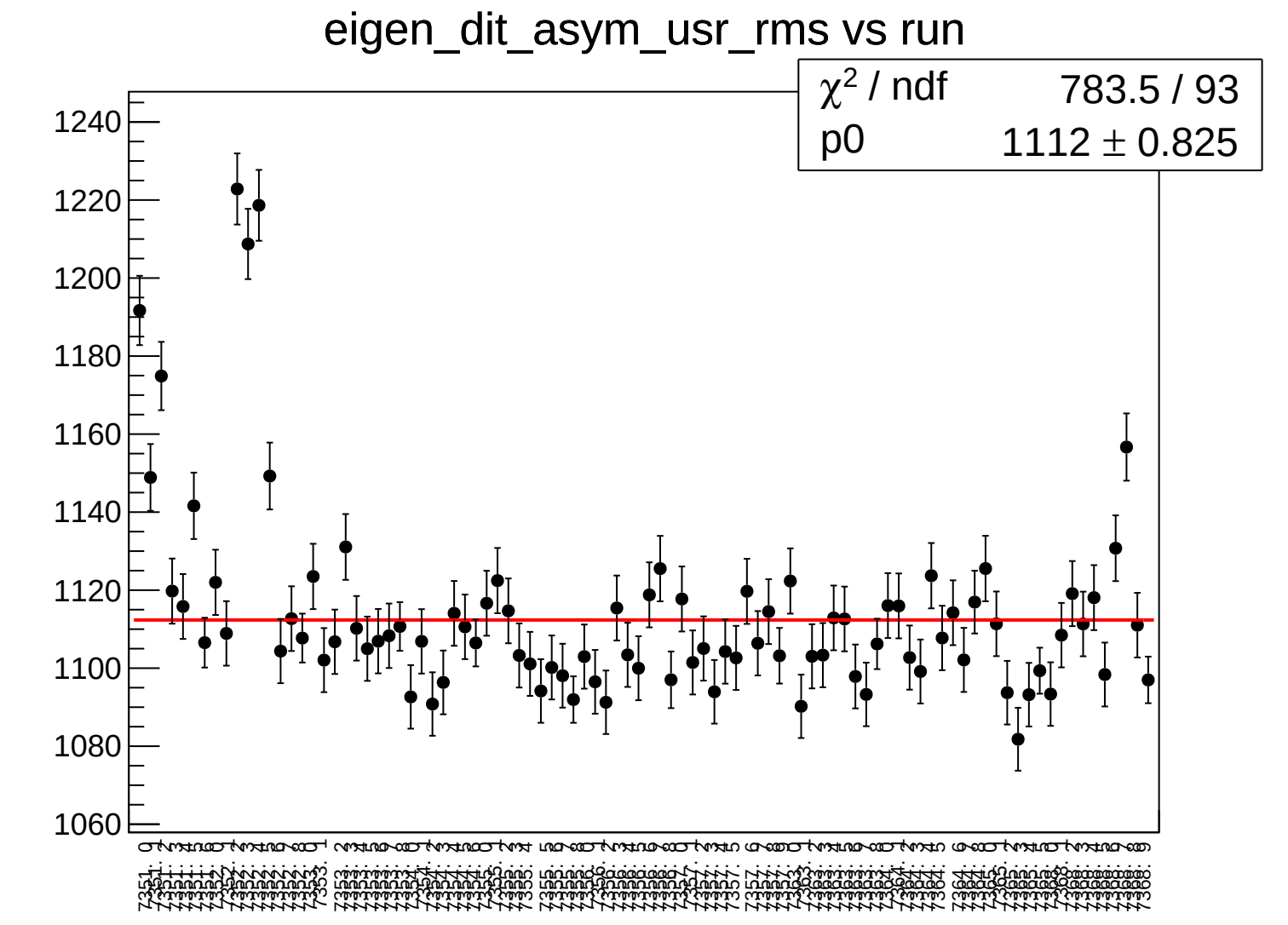

asym_usr_dit_correction_mean vs run
χ² / ndf 88.67 / 93
p0 1340 ± 1915
pull
Entries 94
Mean −36.77
Std Dev 0
pull1D
Entries 94
Mean 0.009113
Std Dev 0.9712

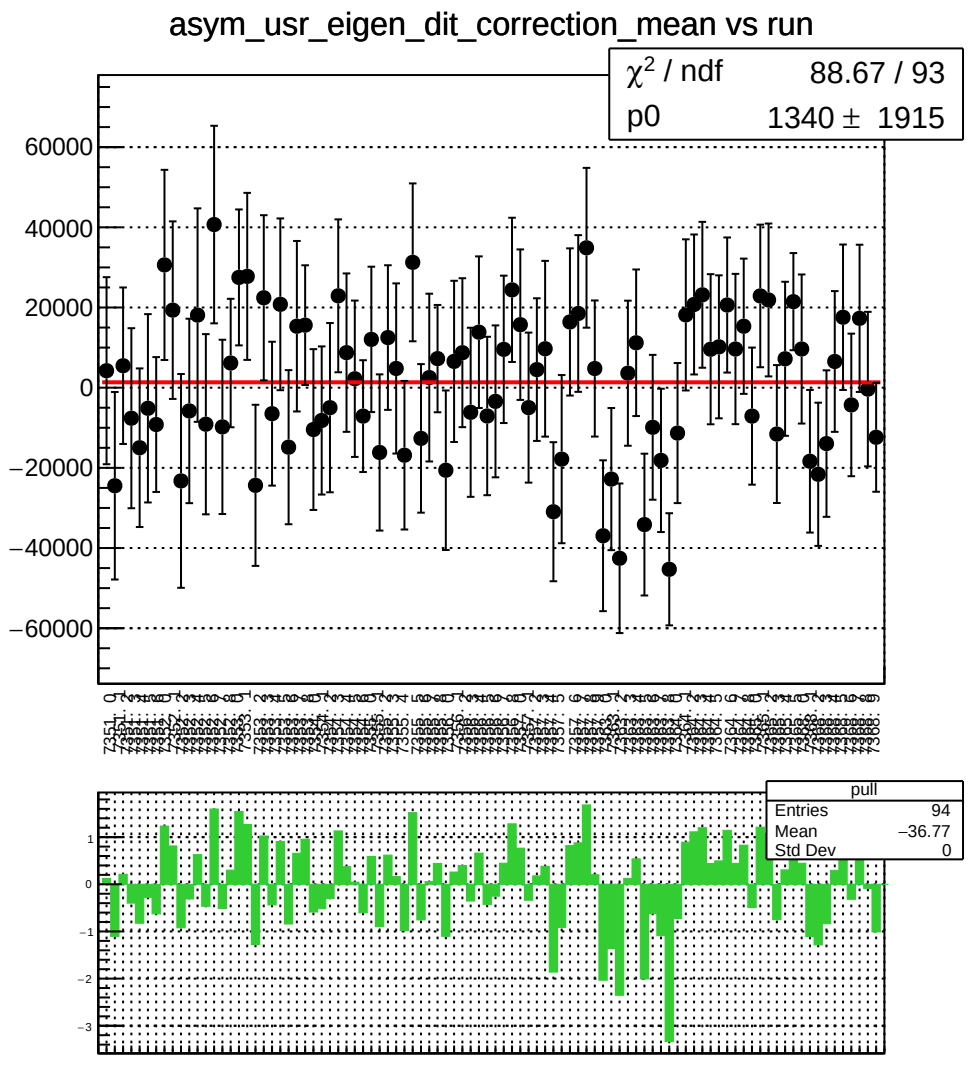
asym_usr_dit_correction_rms vs run

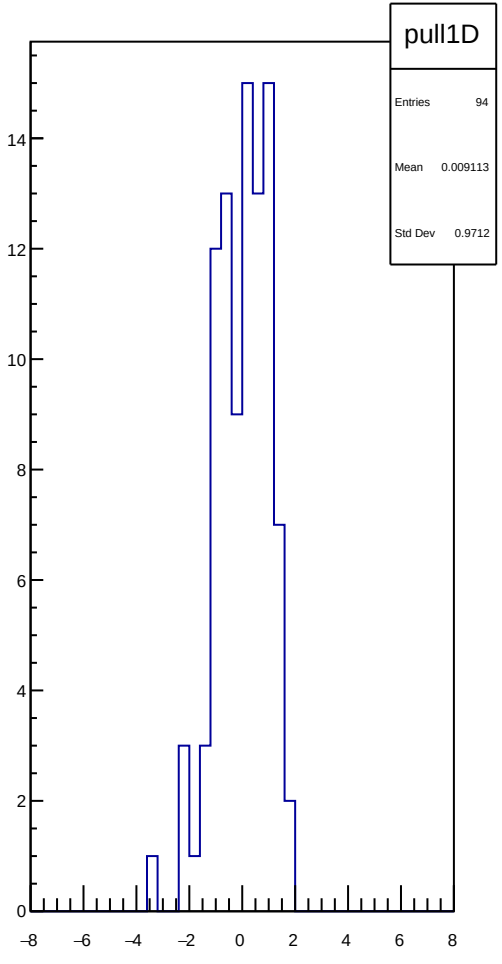


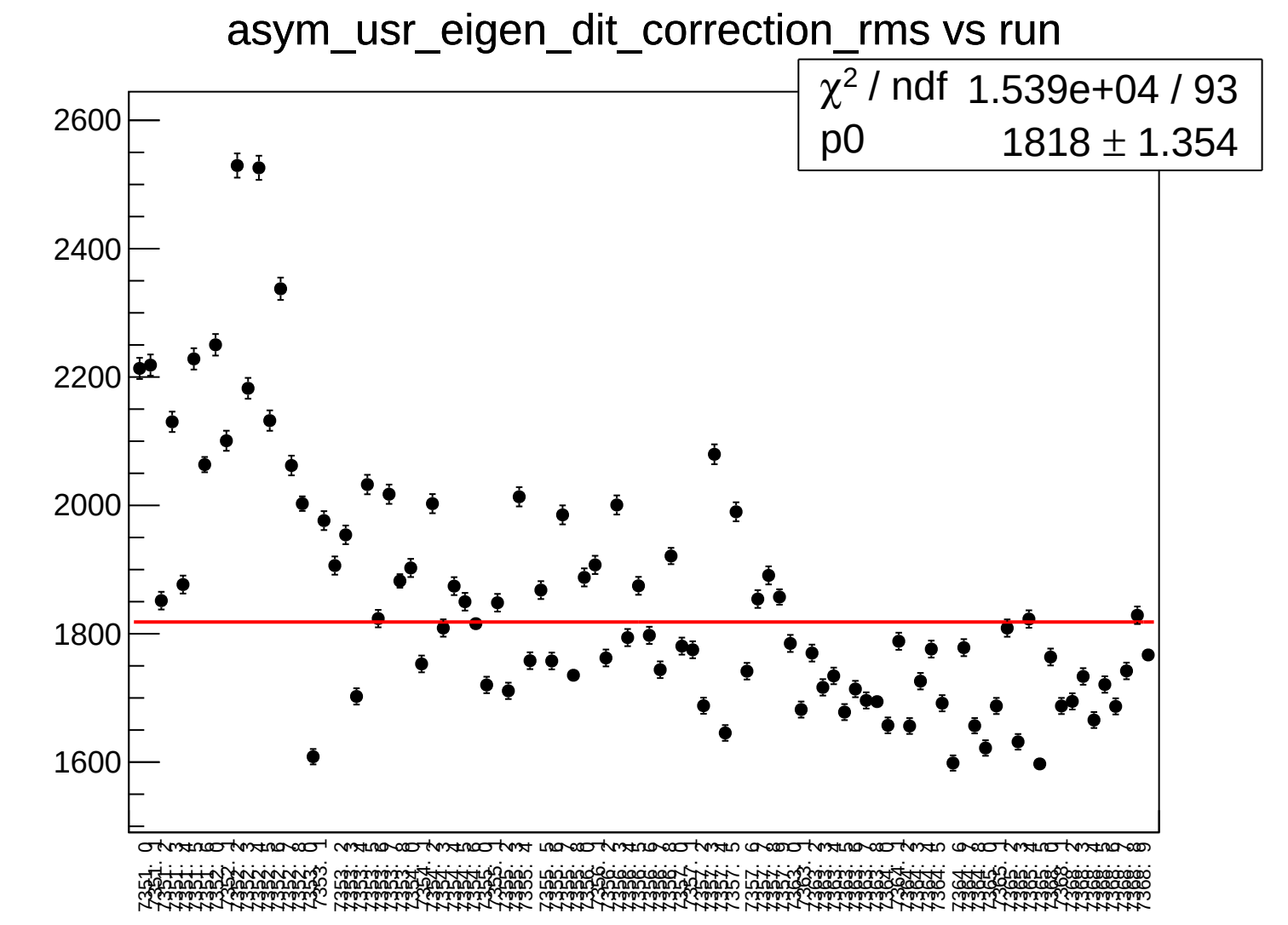

eigen_dit_asym_usr_mean vs run
χ² / ndf 84.68 / 93
p0 −161.9 ± 1167
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 94
Mean −39.57
Std Dev 0
2
1
0
−1
−2
−3

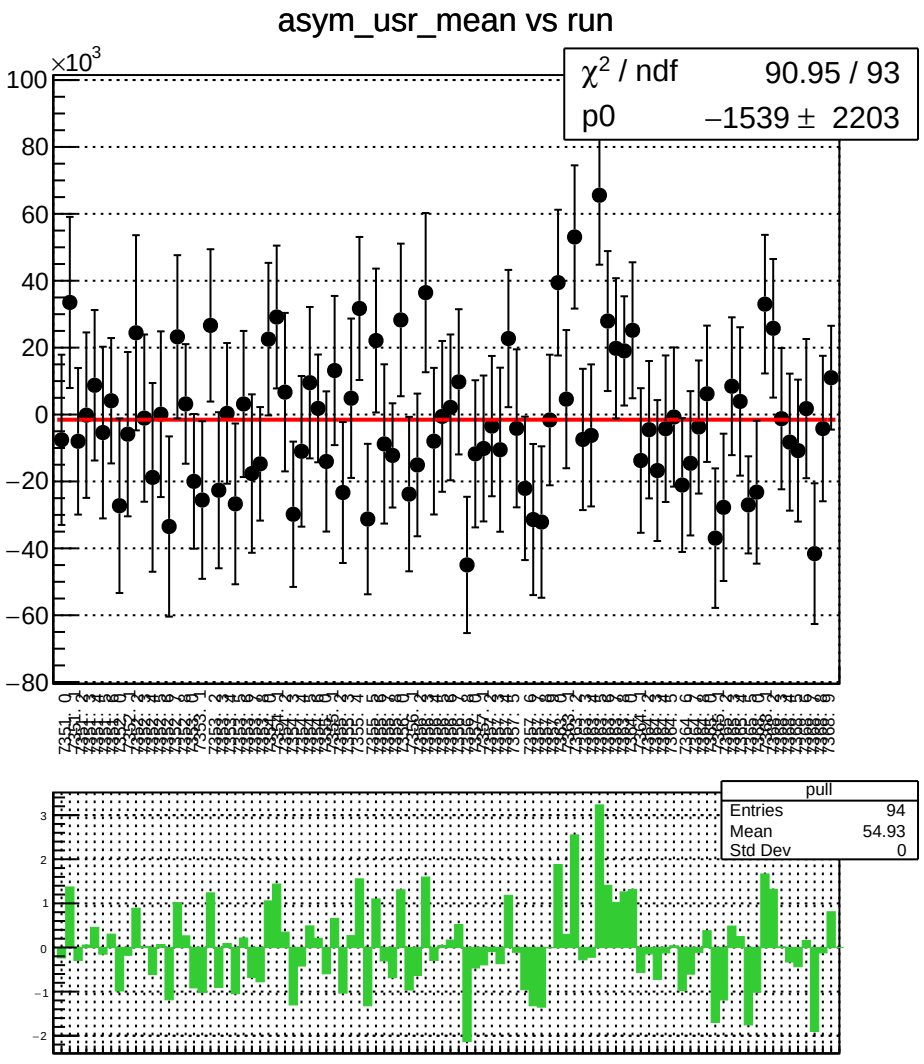

pull1D
Entries 94
Mean 0.01535
Std Dev 0.949
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

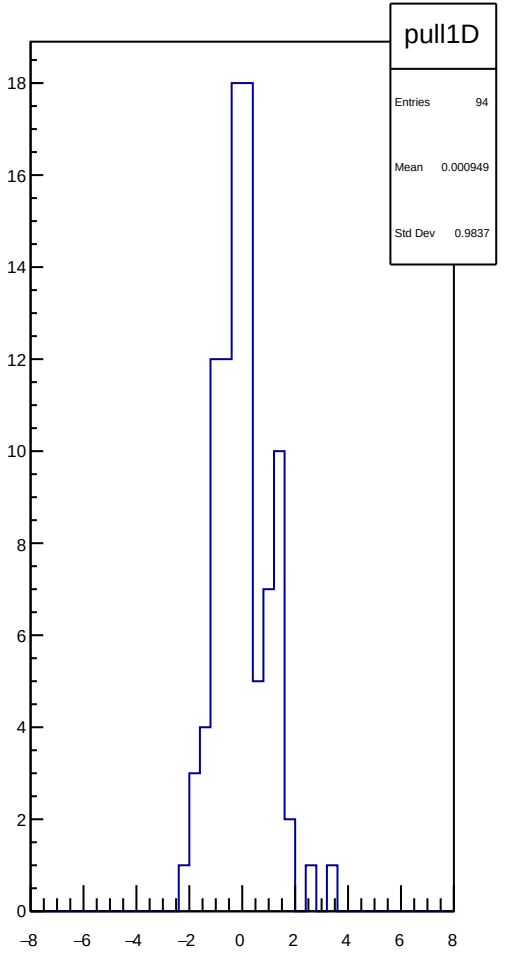

eigen_dit_asym_usr_rms vs run
χ^2 / ndf 783.5 / 93
p0 1112 ± 0.825
1240
1220
1200
1180
1160
1140
1120
1100
1080
1060

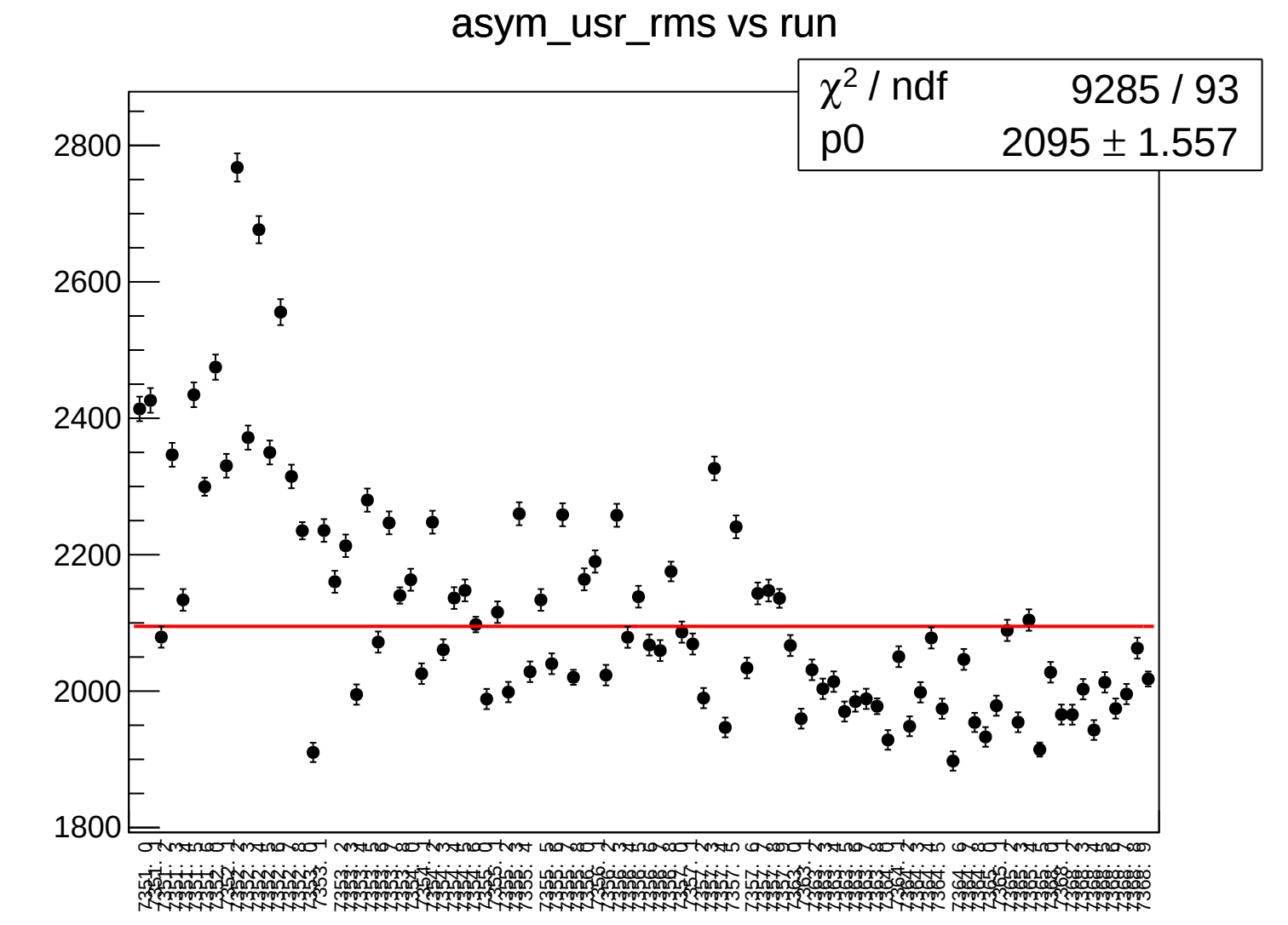

asym_usr_eigen_dit_correction_mean vs run
χ² / ndf 88.67 / 93
p0 1340 ± 1915
pull
Entries 94
Mean −36.77
Std Dev 0

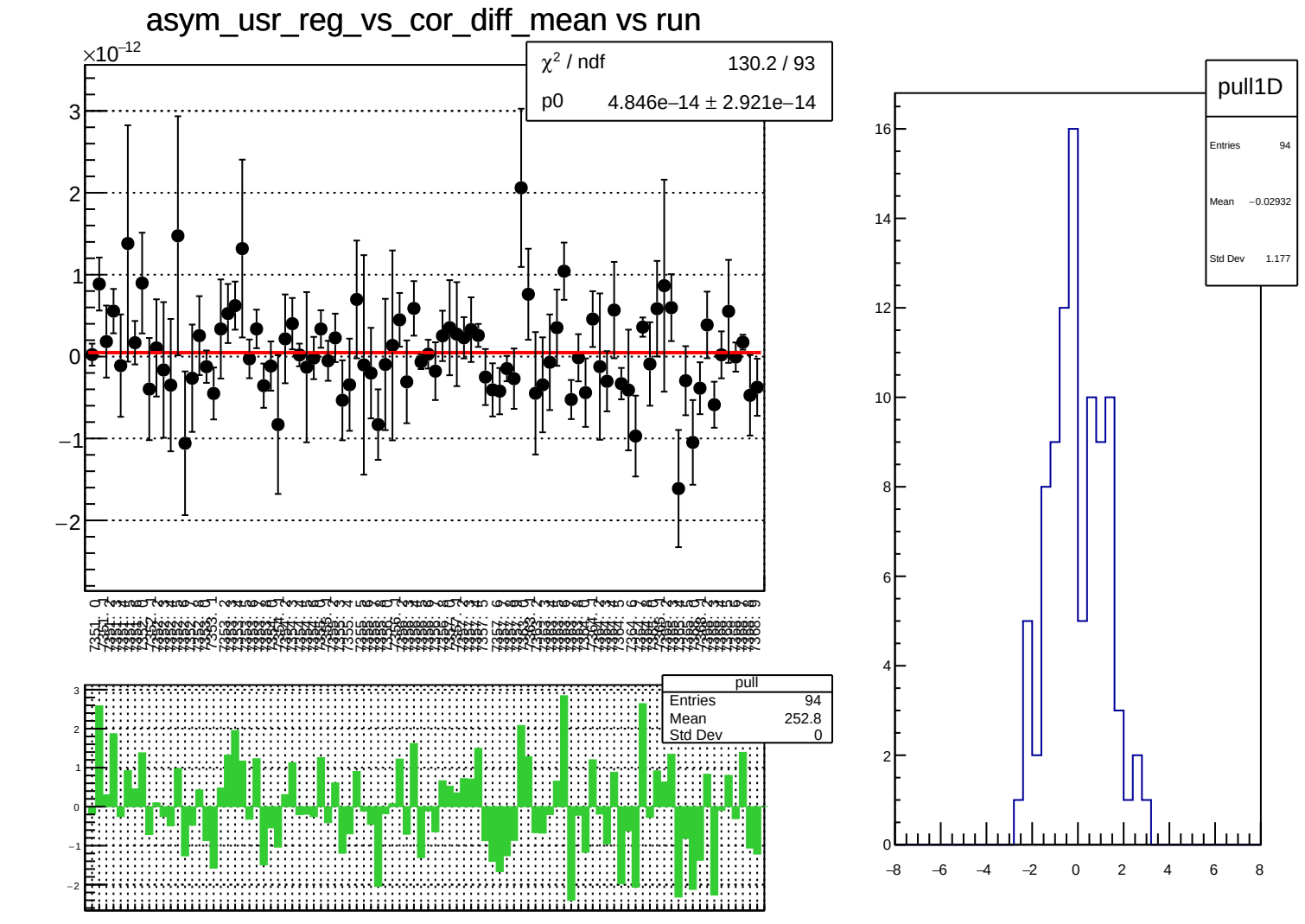

pull1D
Entries 94
Mean 0.009113
Std Dev 0.9712

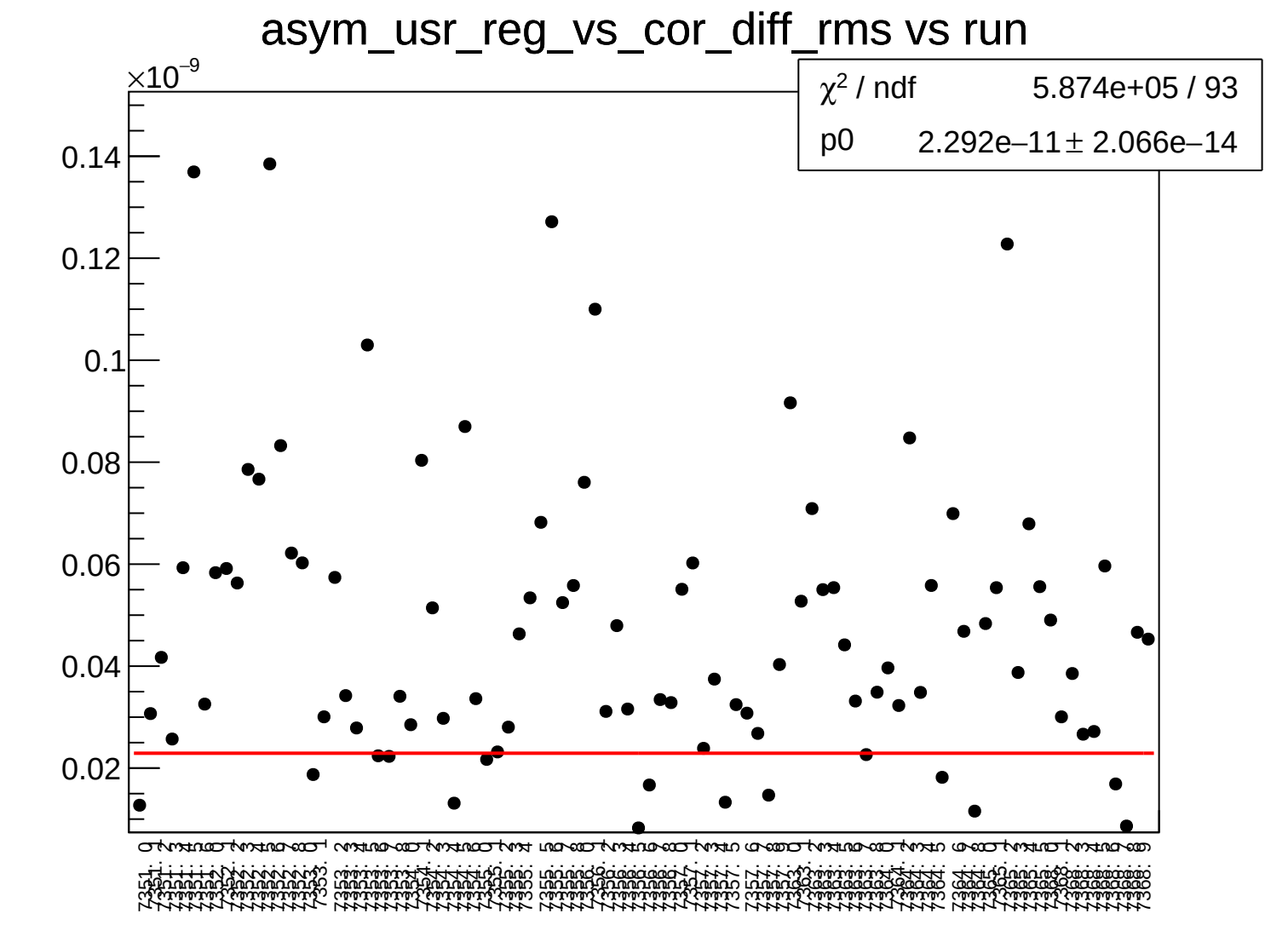

asym_usr_eigen_dit_correction_rms vs run
χ² / ndf 1.539e+04 / 93
p0 1818 ± 1.354
2600
2400
2200
2000
1800
1600

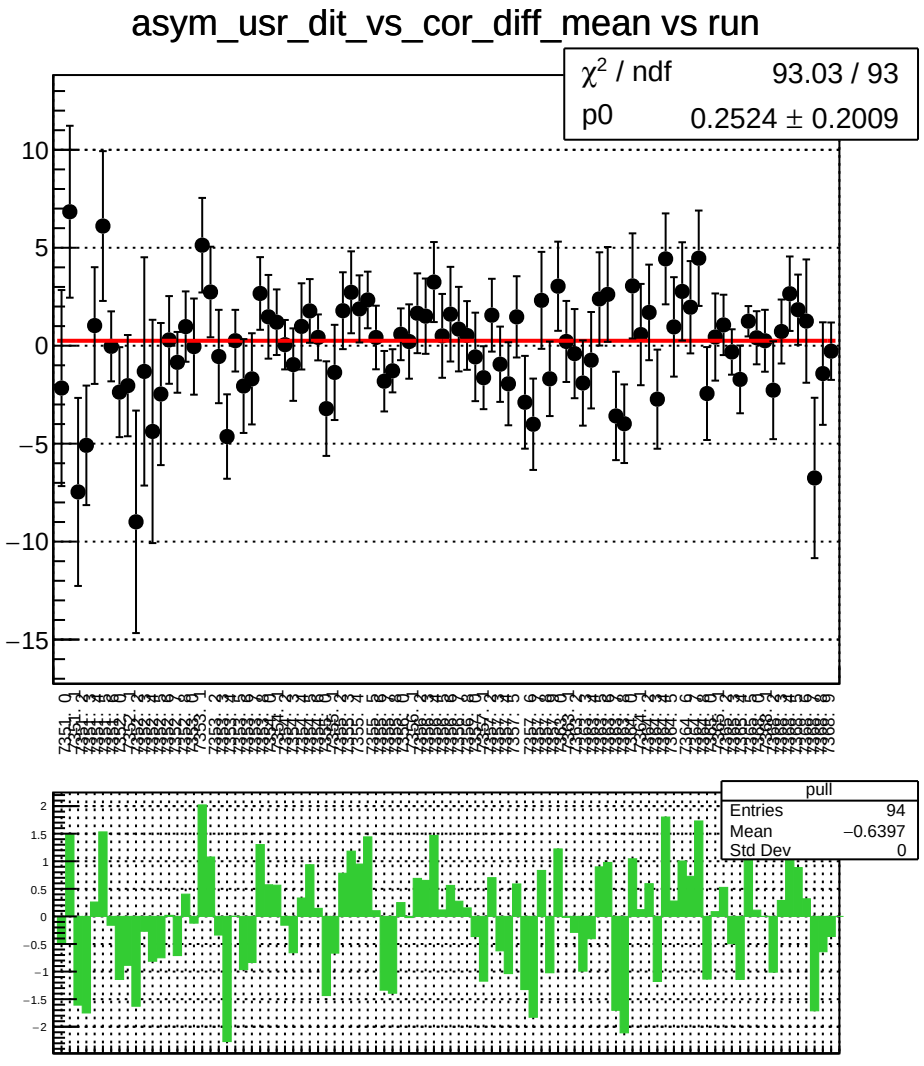

asym_usr_mean vs run
×10^3
χ² / ndf 90.95 / 93
p0 −1539 ± 2203
pull
Entries 94
Mean 54.93
Std Dev 0

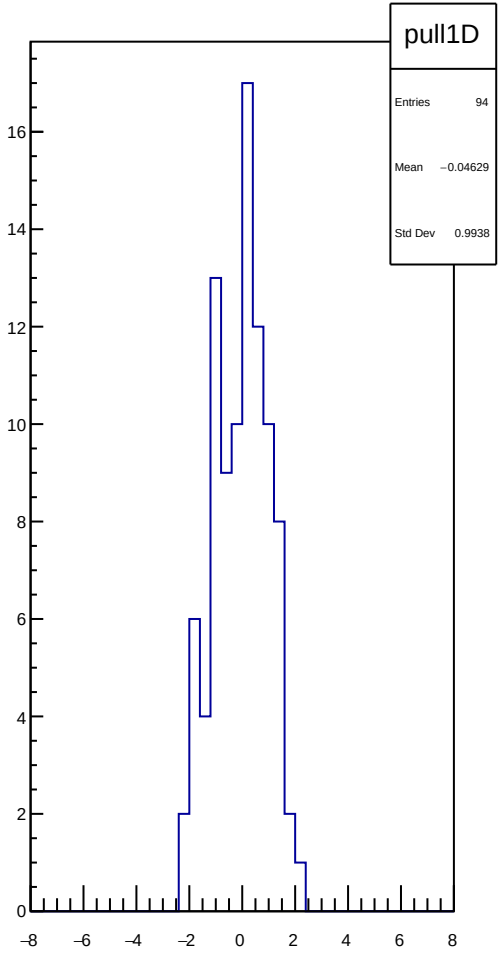

pull1D
Entries 94
Mean 0.000949
Std Dev 0.9837

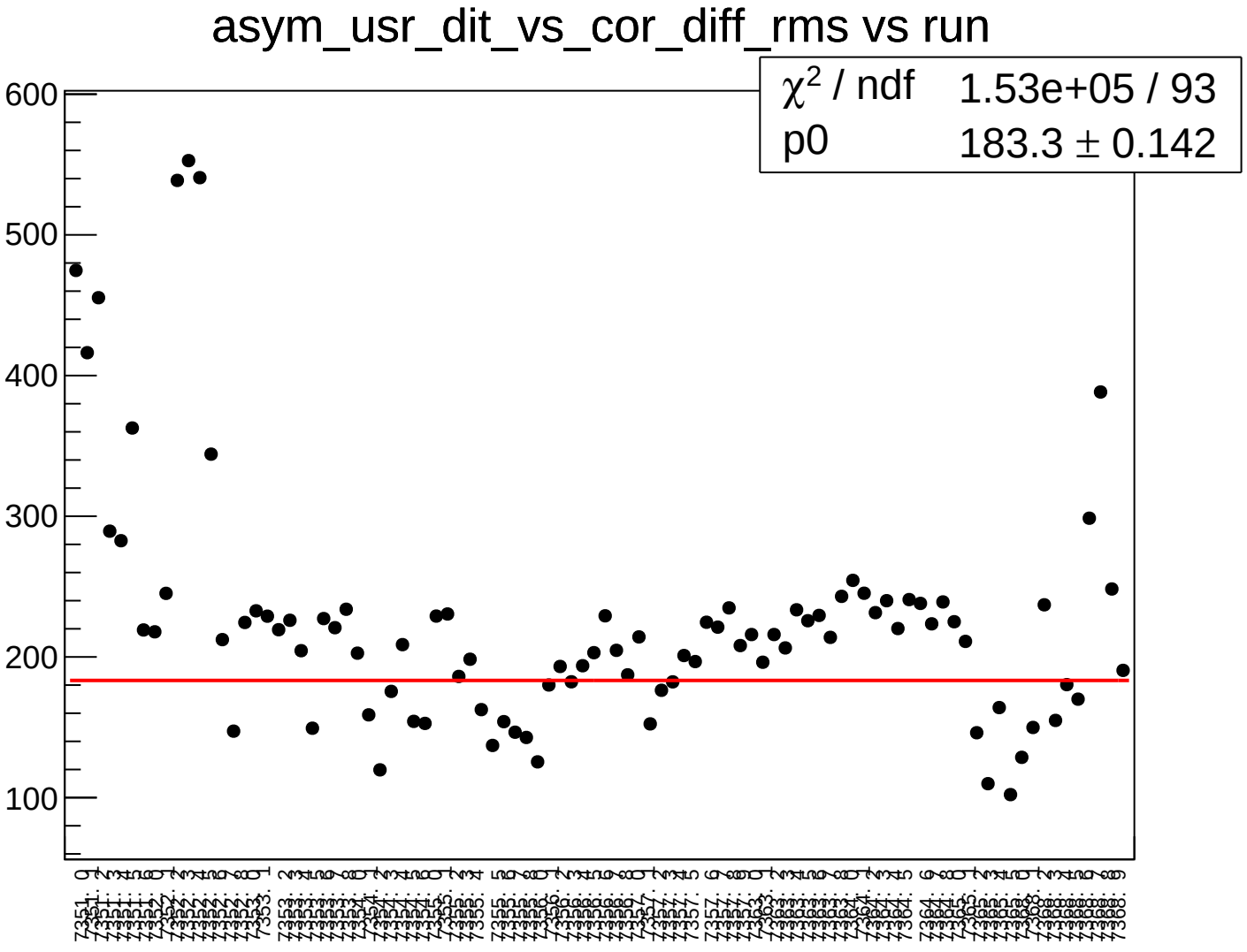

asym_usr_rms vs run
χ² / ndf 9285 / 93
p0 2095 ± 1.557
2800
2600
2400
2200
2000
1800

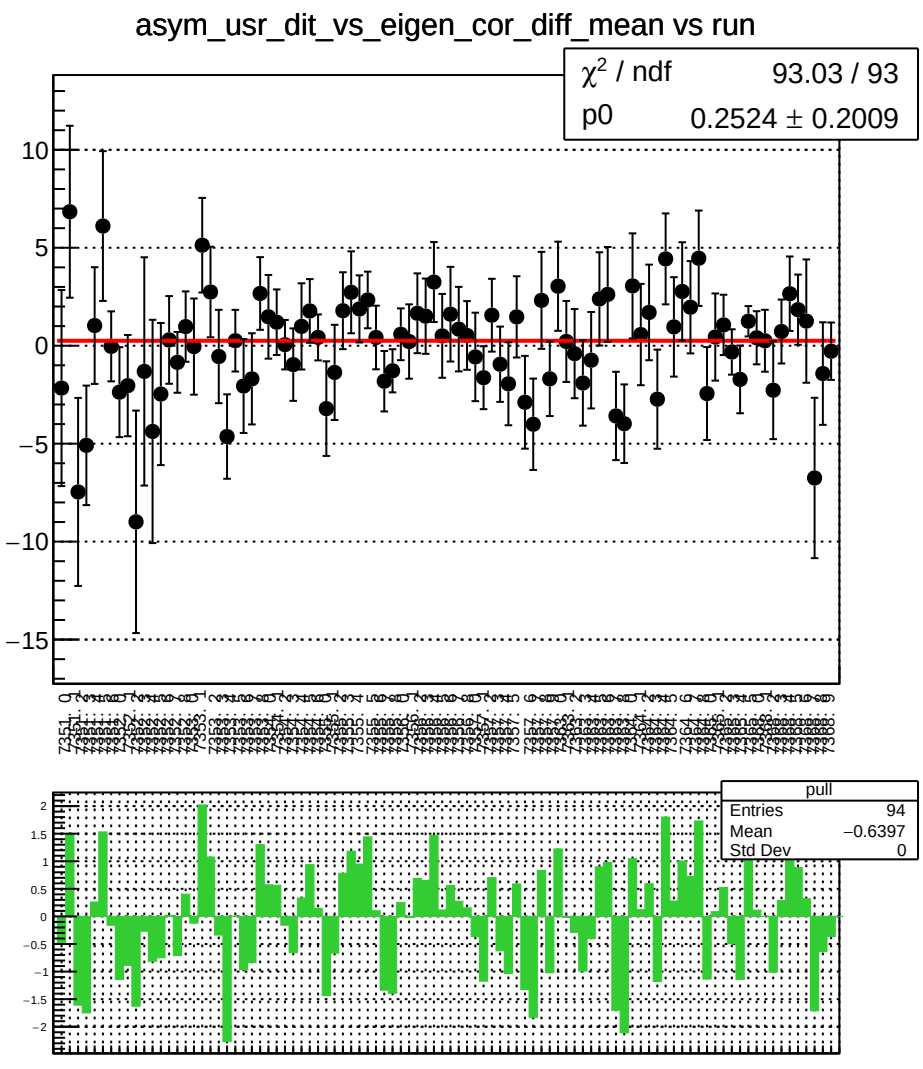

asym_usr_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 130.2 / 93
p0 4.846e−14 ± 2.921e−14
pull
Entries 94
Mean 252.8
Std Dev 0
pull1D
Entries 94
Mean −0.02932
Std Dev 1.177

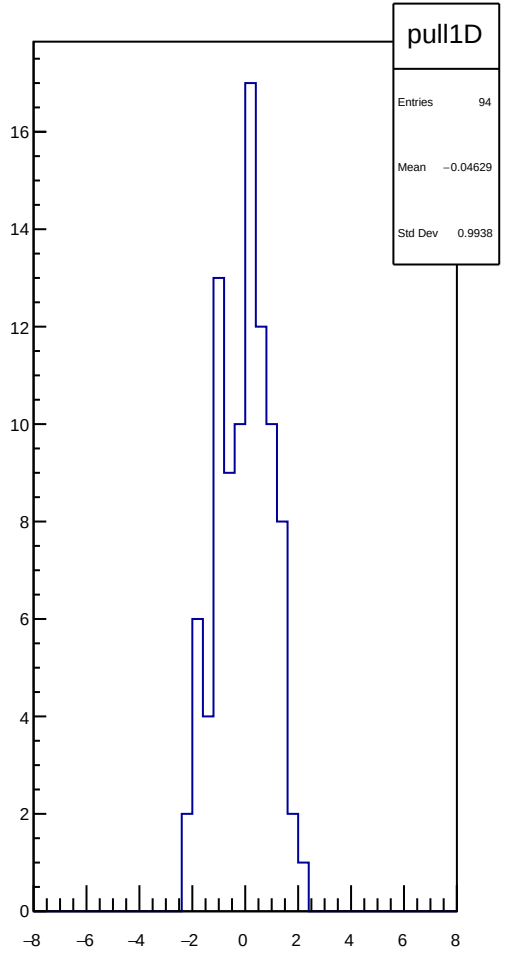

asym_usr_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.874e+05 / 93
p0 2.292e−11 ± 2.066e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

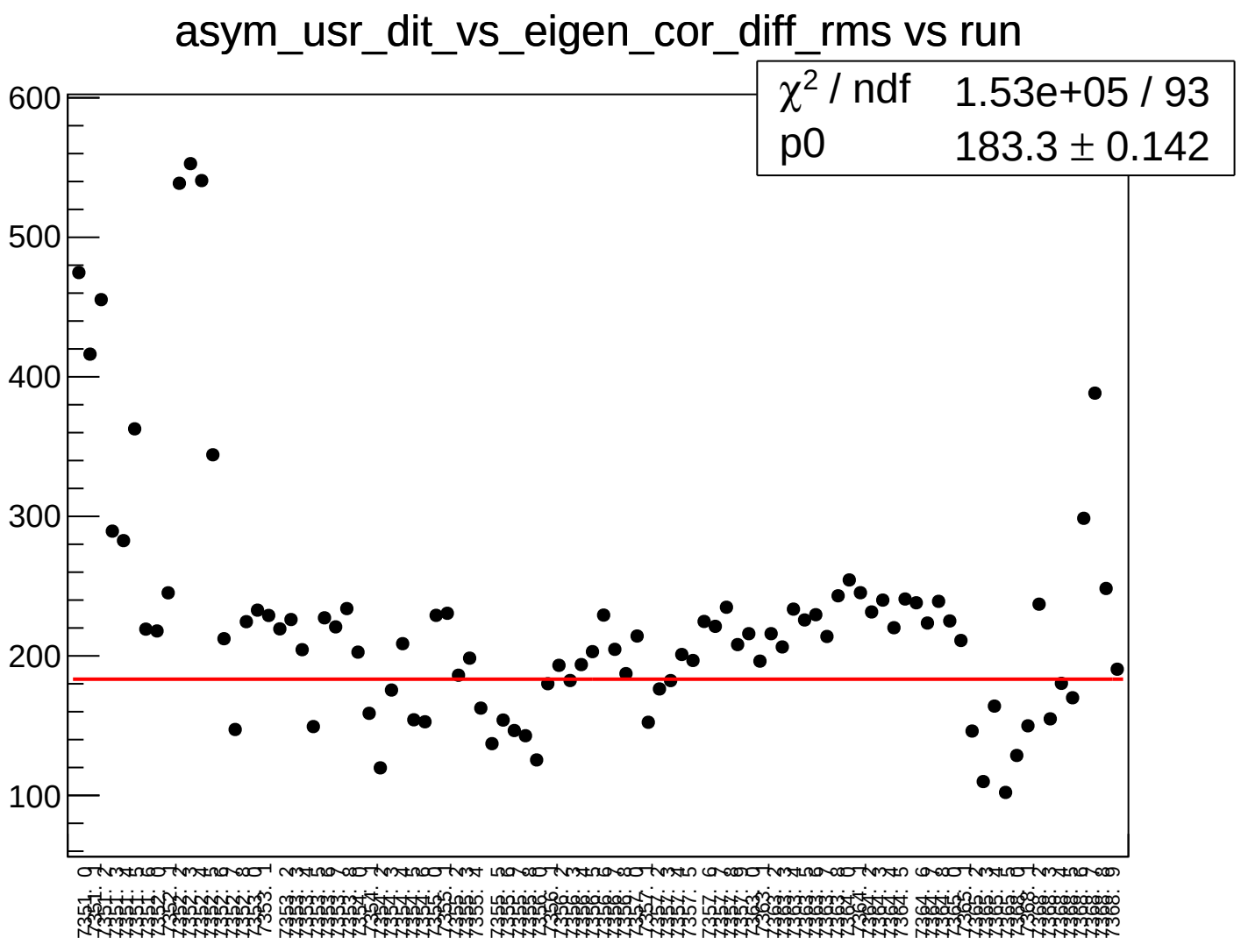

asym_usr_dit_vs_cor_diff_mean vs run
χ² / ndf 93.03 / 93
p0 0.2524 ± 0.2009
pull
Entries 94
Mean −0.6397
Std Dev 0

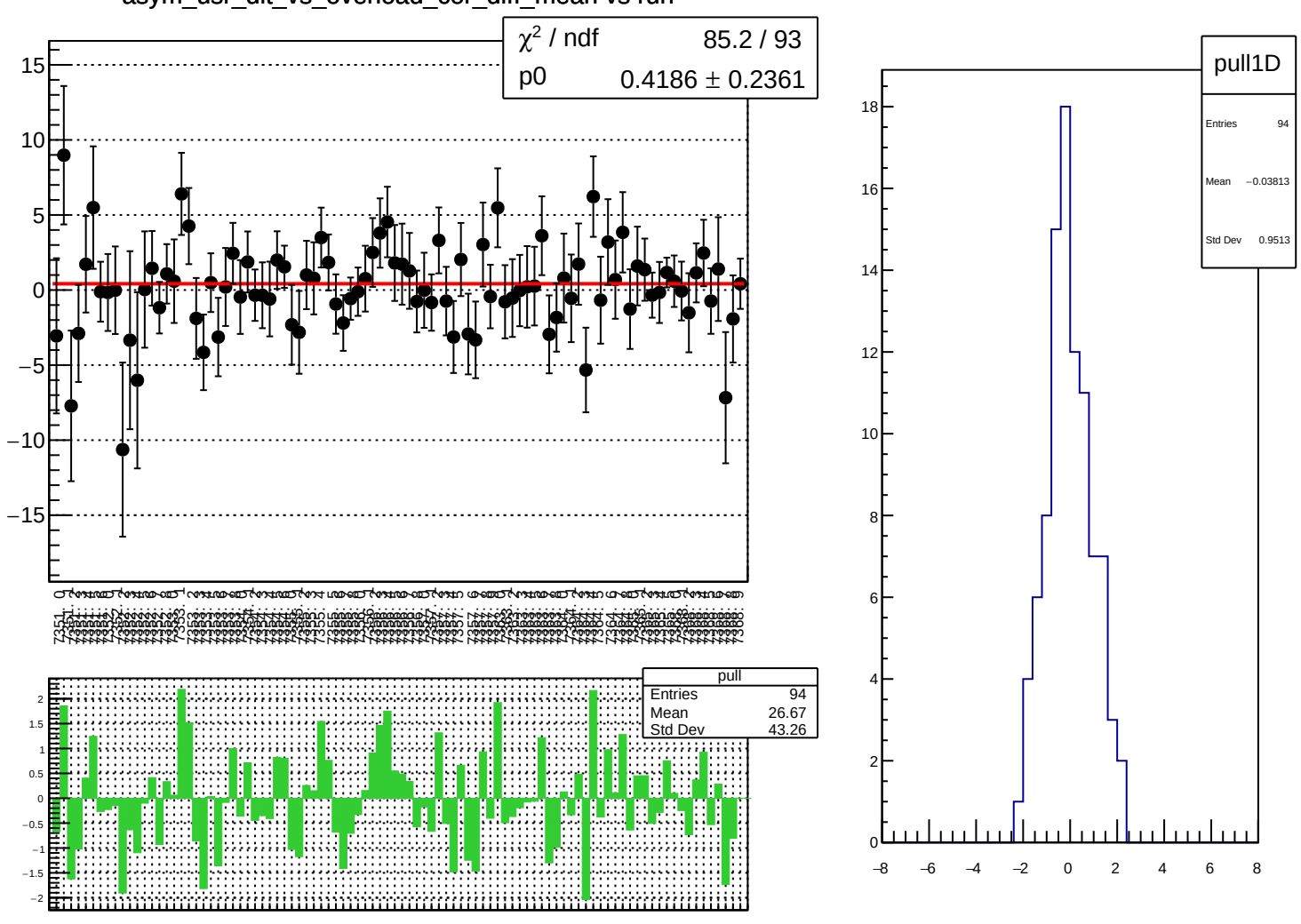

pull1D
Entries 94
Mean −0.04629
Std Dev 0.9938

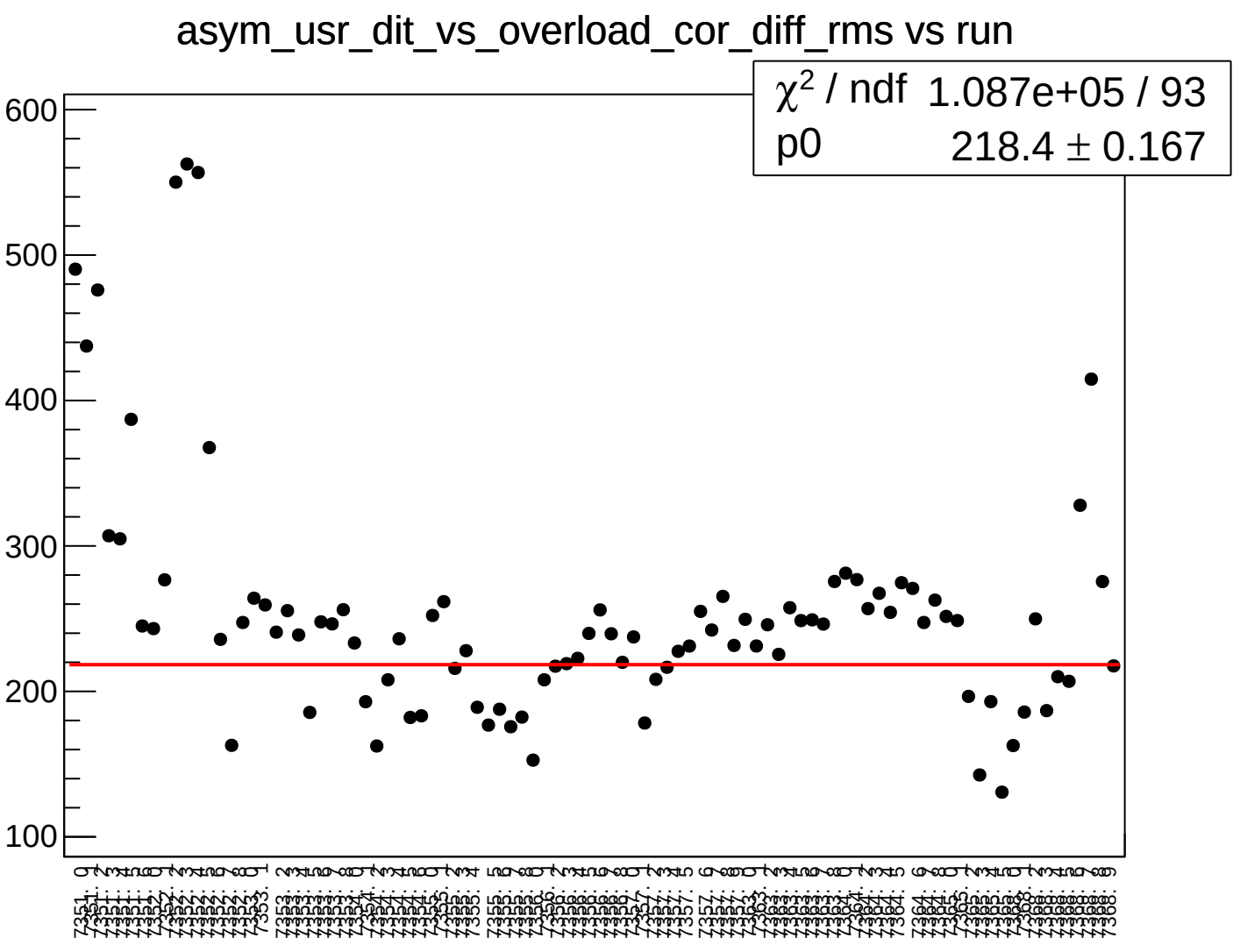

asym_usr_dit_vs_cor_diff_rms vs run
χ² / ndf 1.53e+05 / 93
p0 183.3 ± 0.142
600
500
400
300
200
100

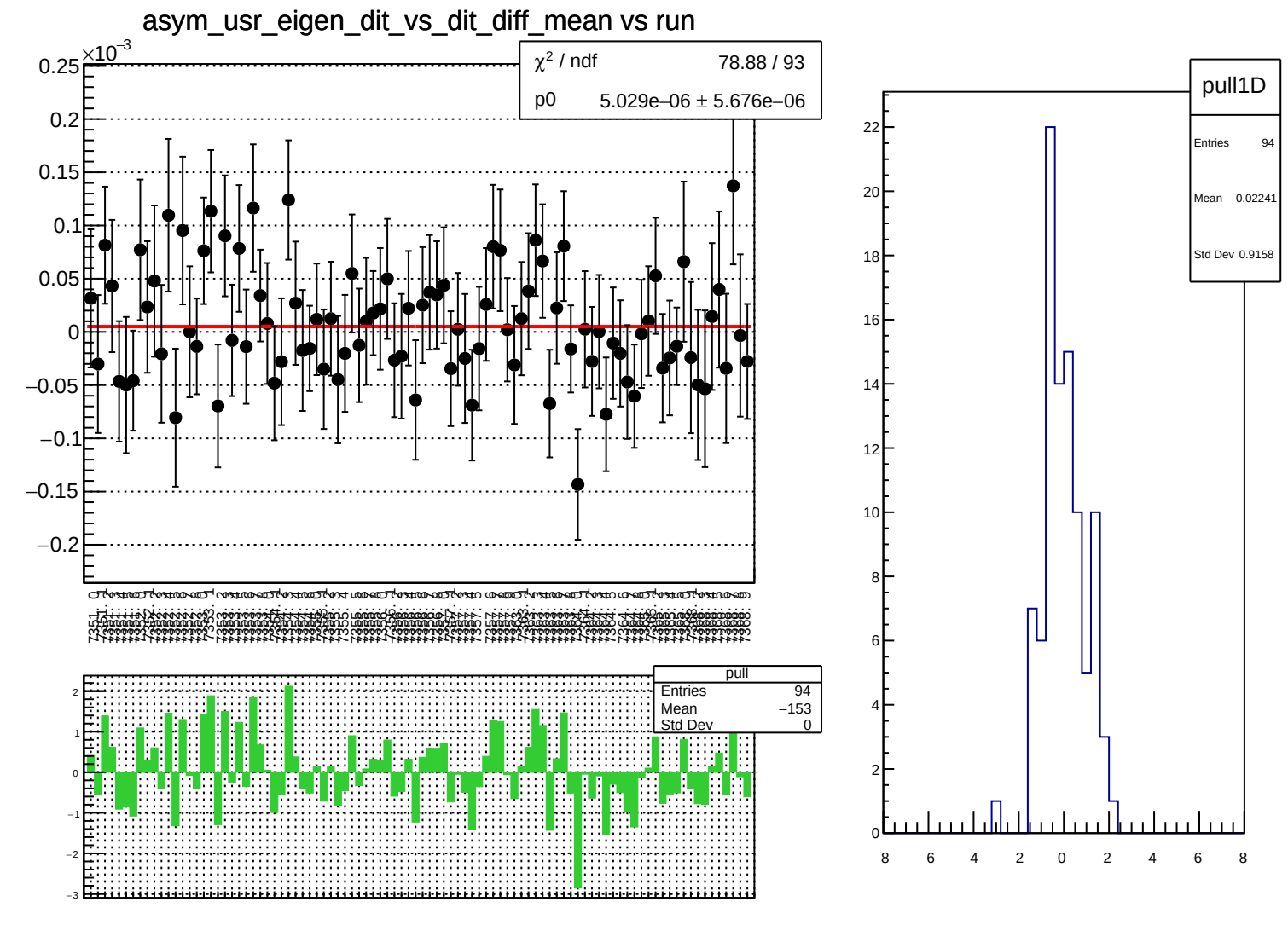

asym_usr_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.03 / 93
p0 0.2524 ± 0.2009
pull
Entries 94
Mean −0.6397
Std Dev 0

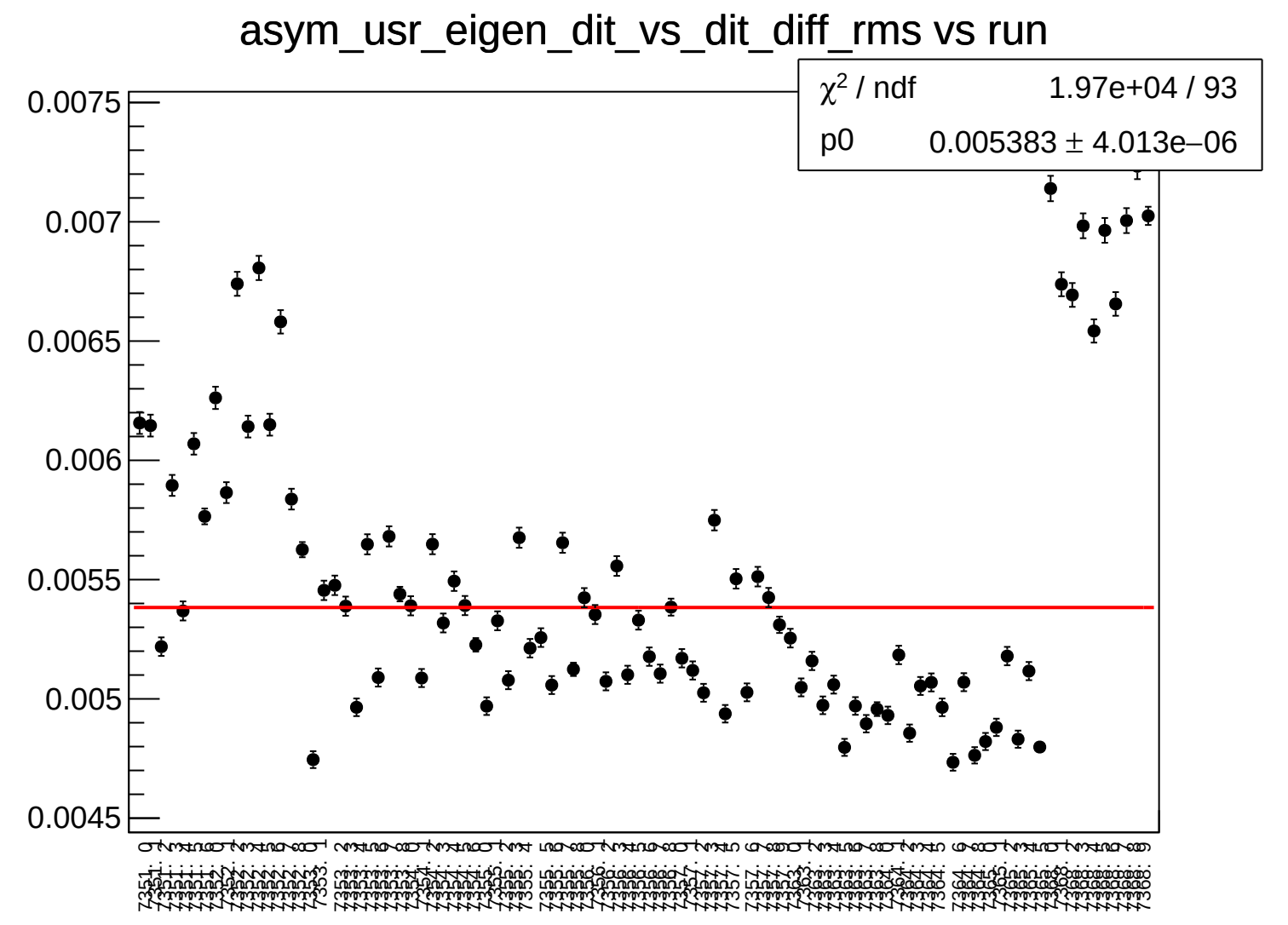

pull1D
Entries 94
Mean −0.04629
Std Dev 0.9938

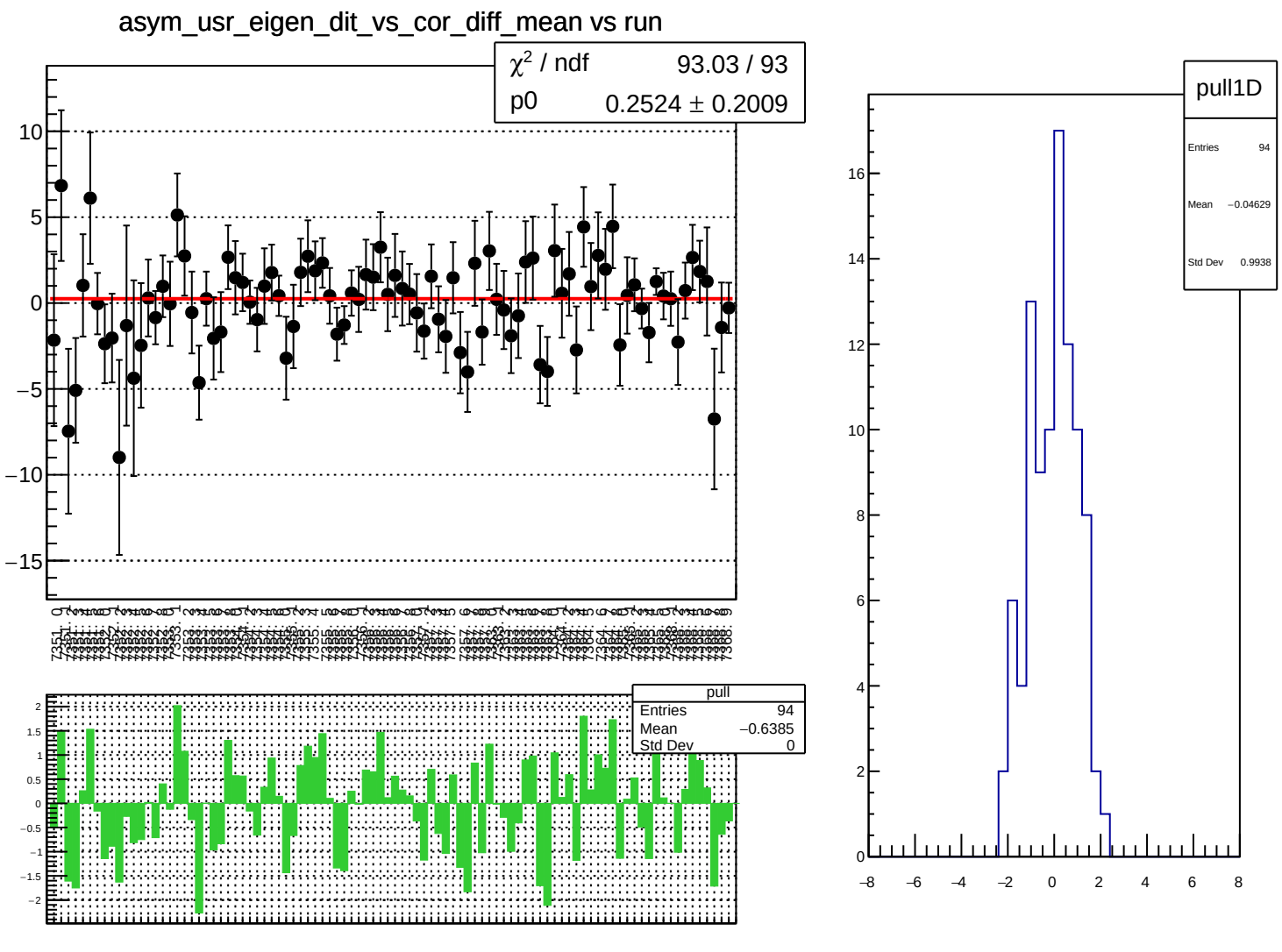

asym_usr_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.53e+05 / 93
p0 183.3 ± 0.142
600
500
400
300
200
100

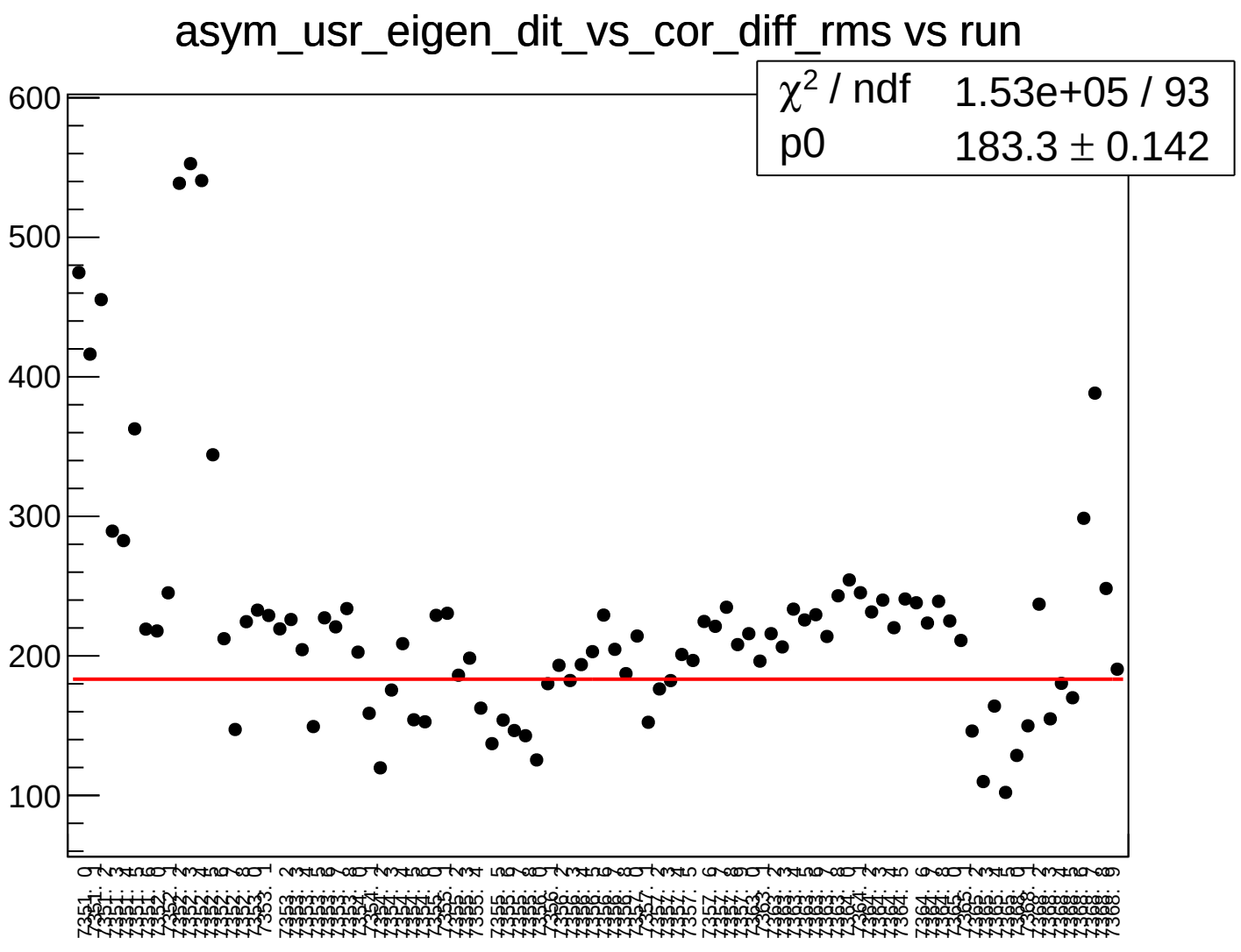

asym_usr_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 85.2 / 93
p0 0.4186 ± 0.2361
pull
Entries 94
Mean 26.67
Std Dev 43.26
pull1D
Entries 94
Mean −0.03813
Std Dev 0.9513

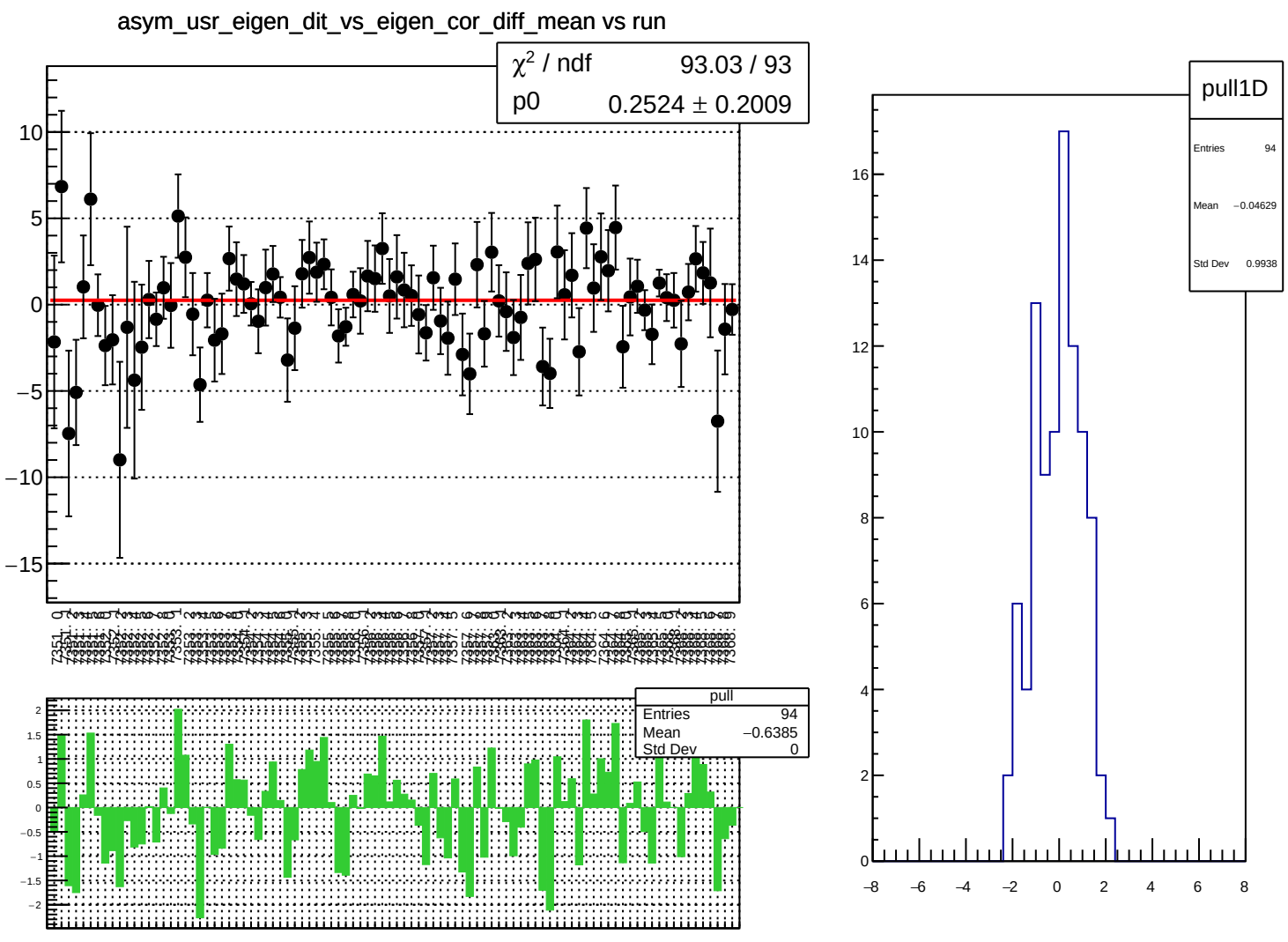

asym_usr_dit_vs_overload_cor_diff_rms vs run
χ^2 / ndf 1.087e+05 / 93
p0 218.4 ± 0.167
600
500
400
300
200
100

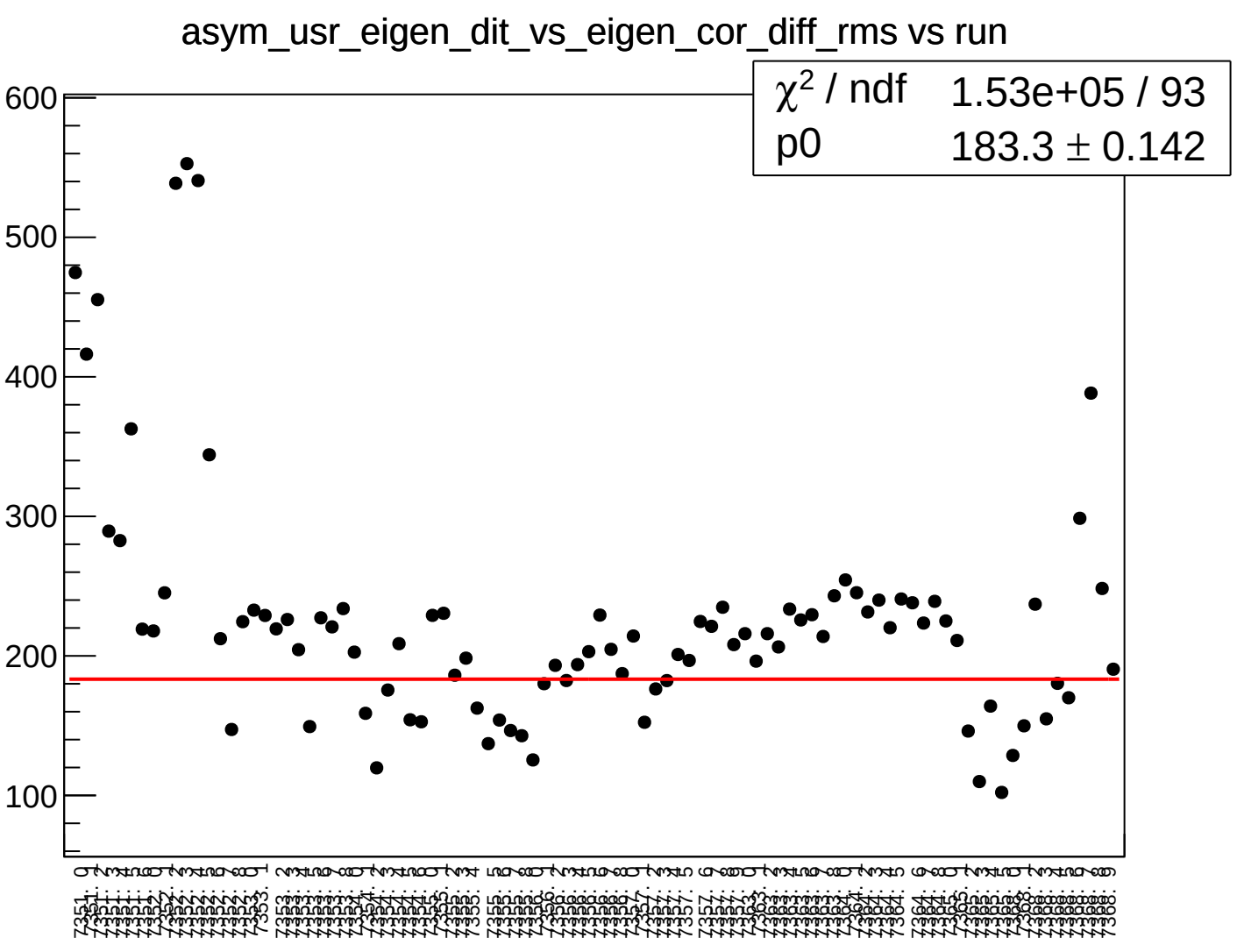

asym_usr_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 78.88 / 93
p0 5.029e−06 ± 5.676e−06
pull
Entries 94
Mean −153
Std Dev 0
pull1D
Entries 94
Mean 0.02241
Std Dev 0.9158

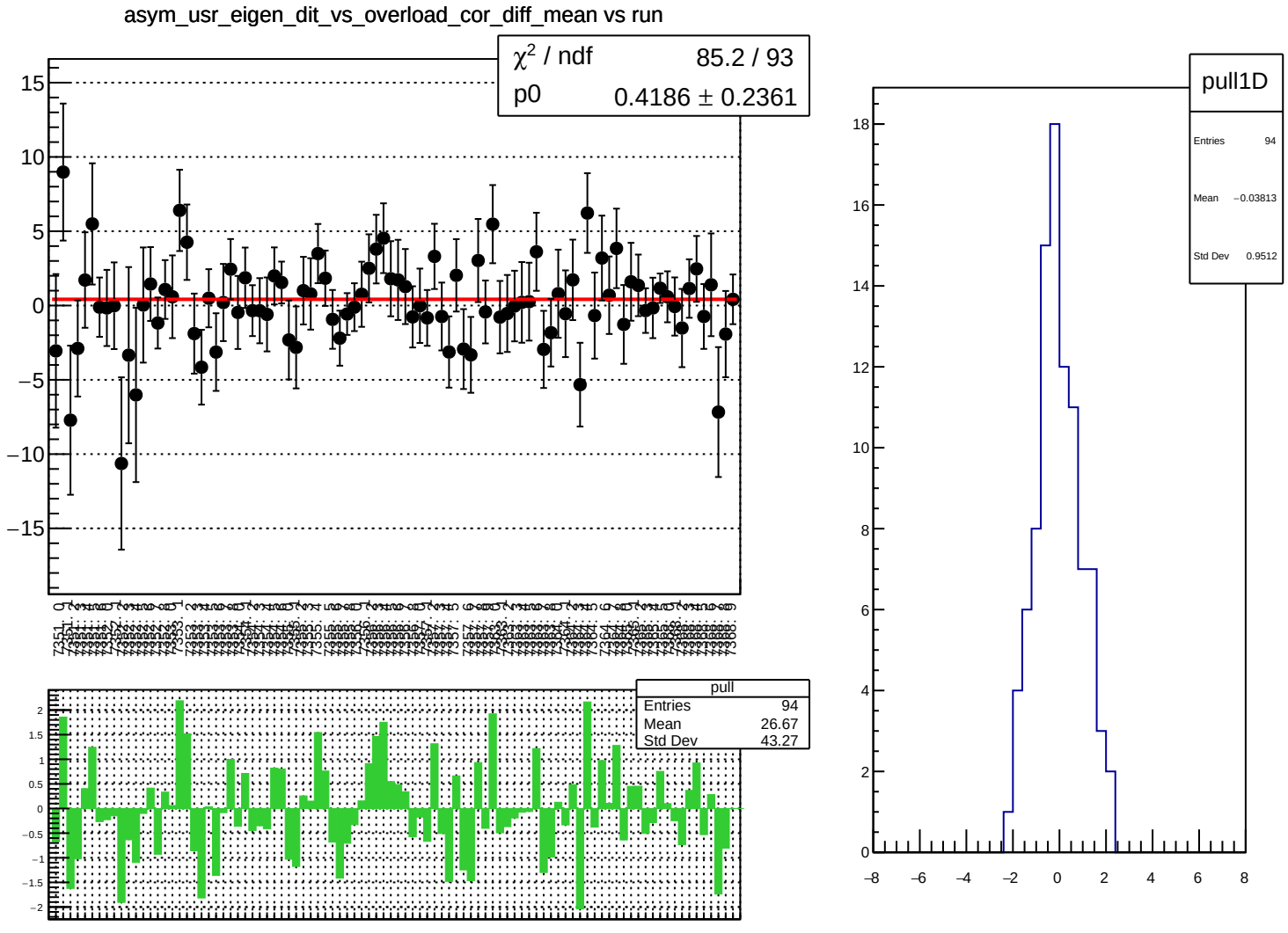

asym_usr_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.97e+04 / 93
p0 0.005383 ± 4.013e−06
0.0075
0.007
0.0065
0.006
0.0055
0.005
0.0045

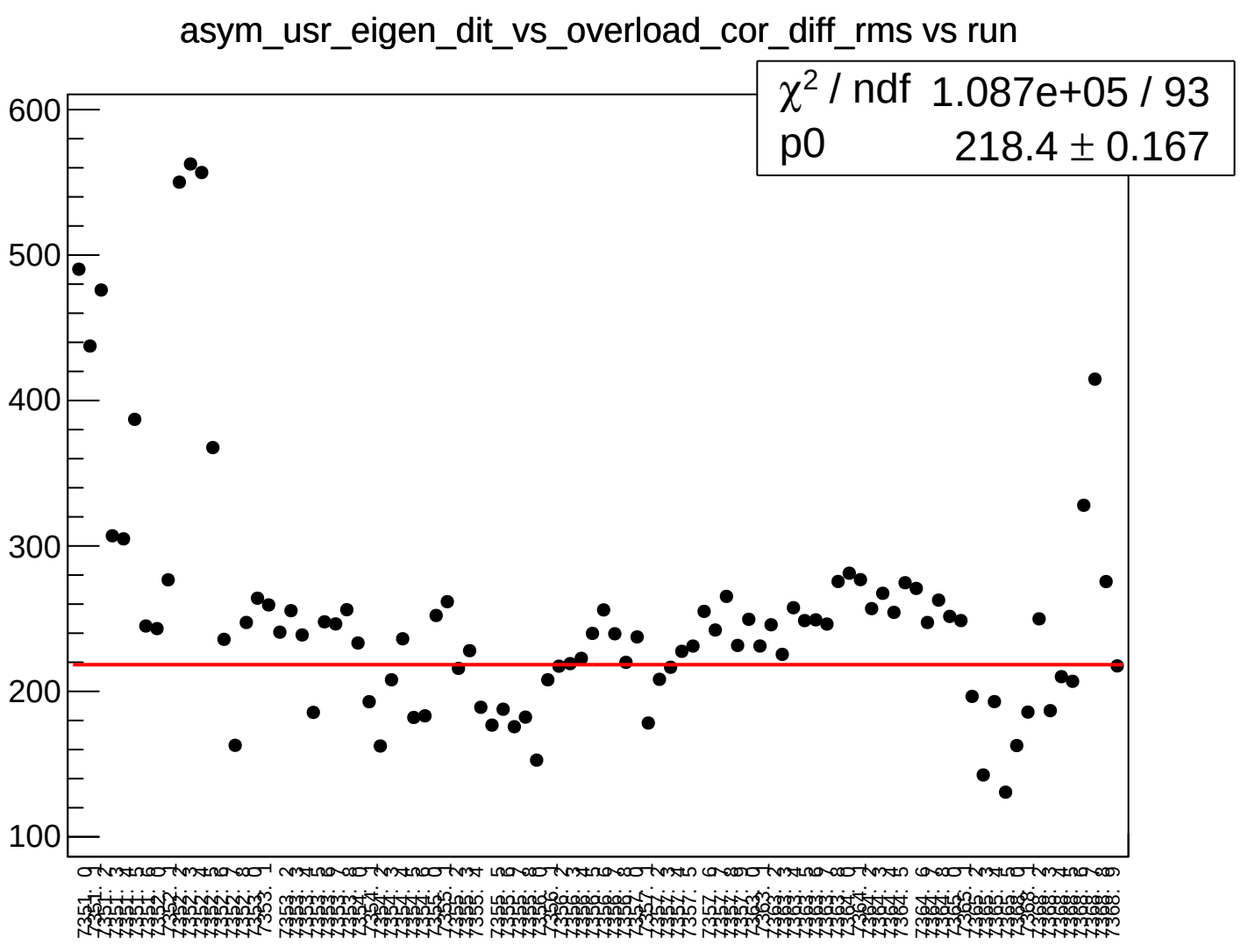

asym_usr_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.03 / 93
p0 0.2524 ± 0.2009
pull
Entries 94
Mean −0.6385
Std Dev 0
pull1D
Entries 94
Mean −0.04629
Std Dev 0.9938

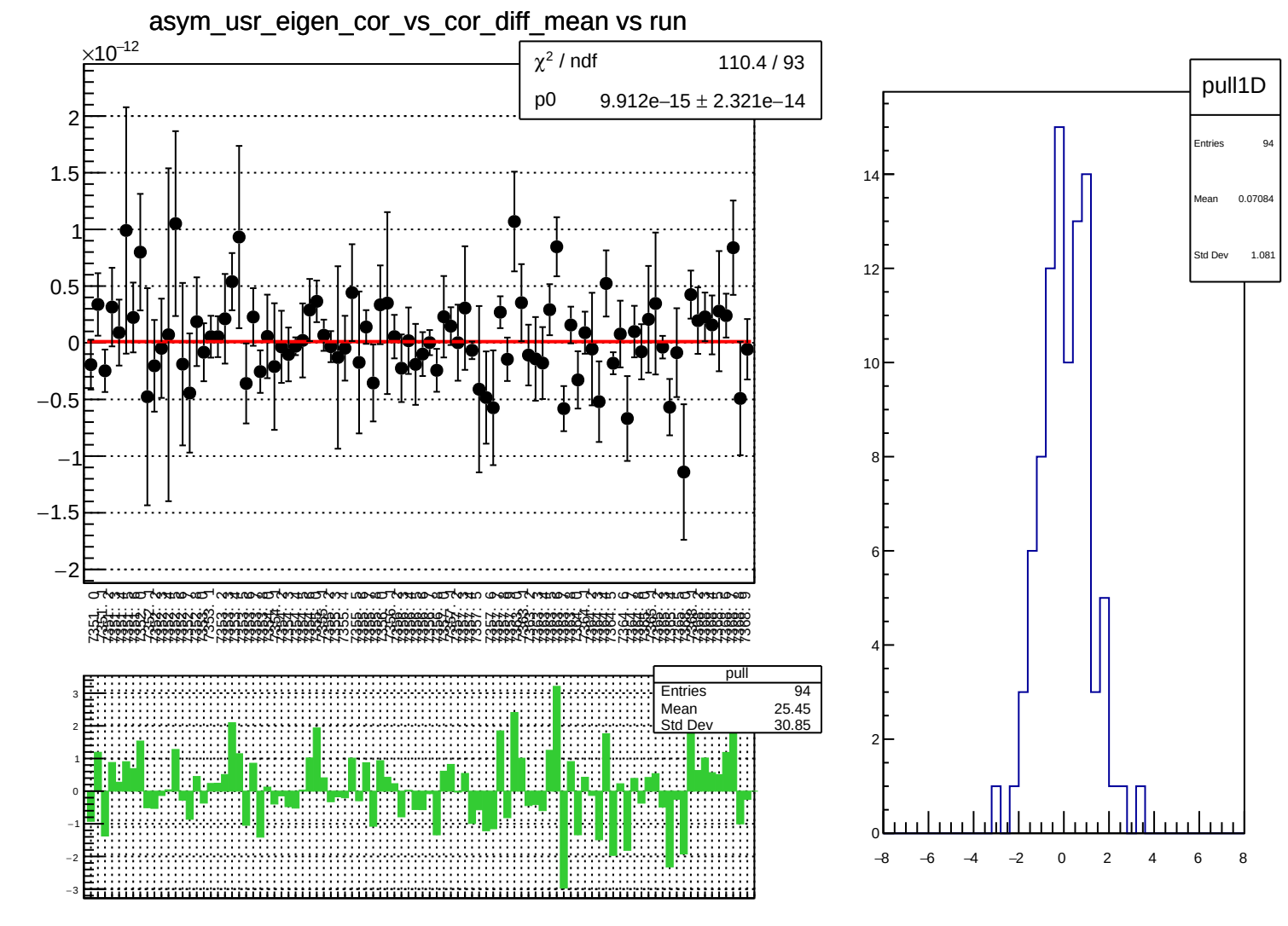

asym_usr_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.53e+05 / 93
p0 183.3 ± 0.142
600
500
400
300
200
100

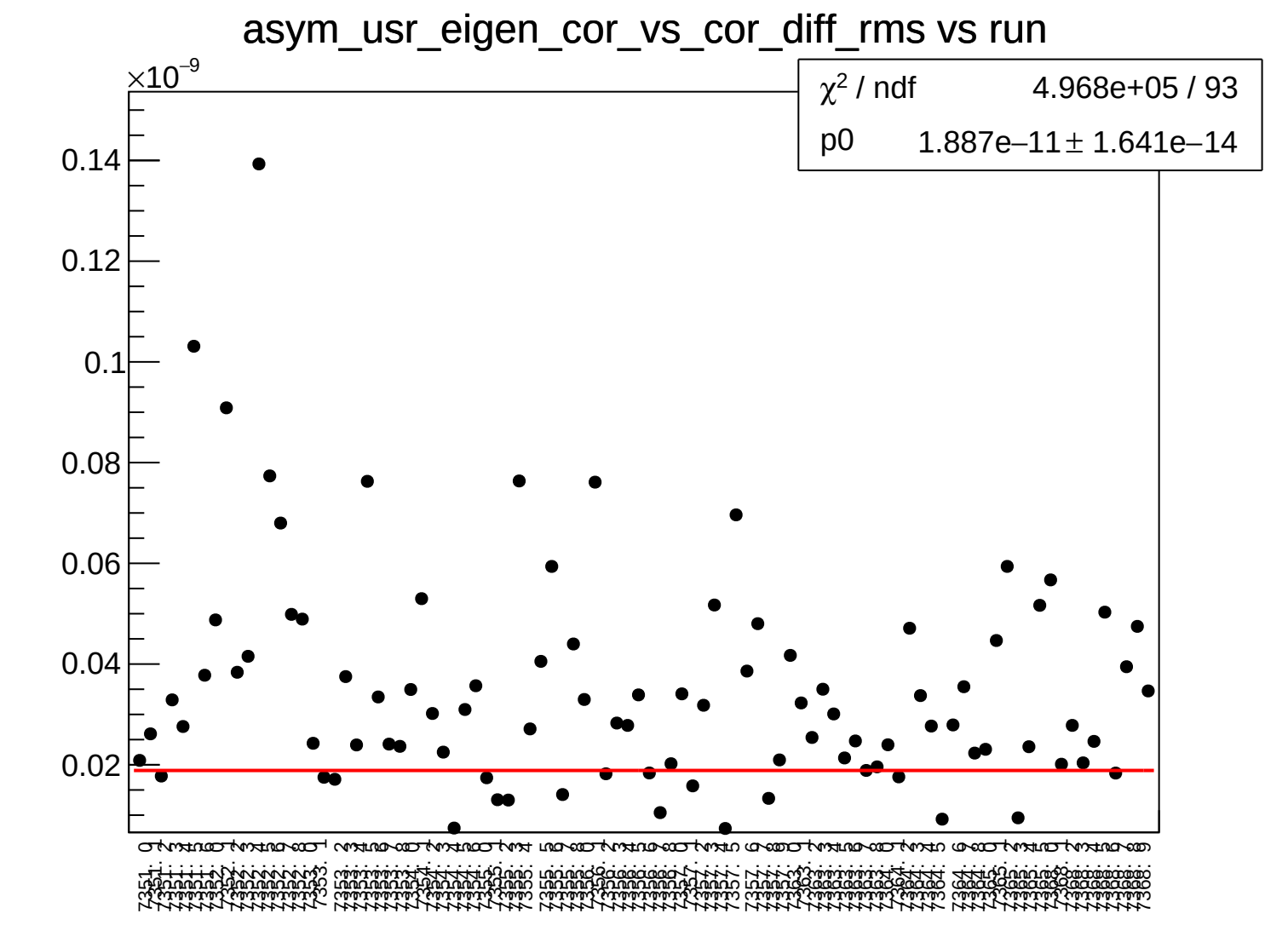

asym_usr_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.03 / 93
p0 0.2524 ± 0.2009
pull
Entries 94
Mean −0.6385
Std Dev 0
pull1D
Entries 94
Mean −0.04629
Std Dev 0.9938

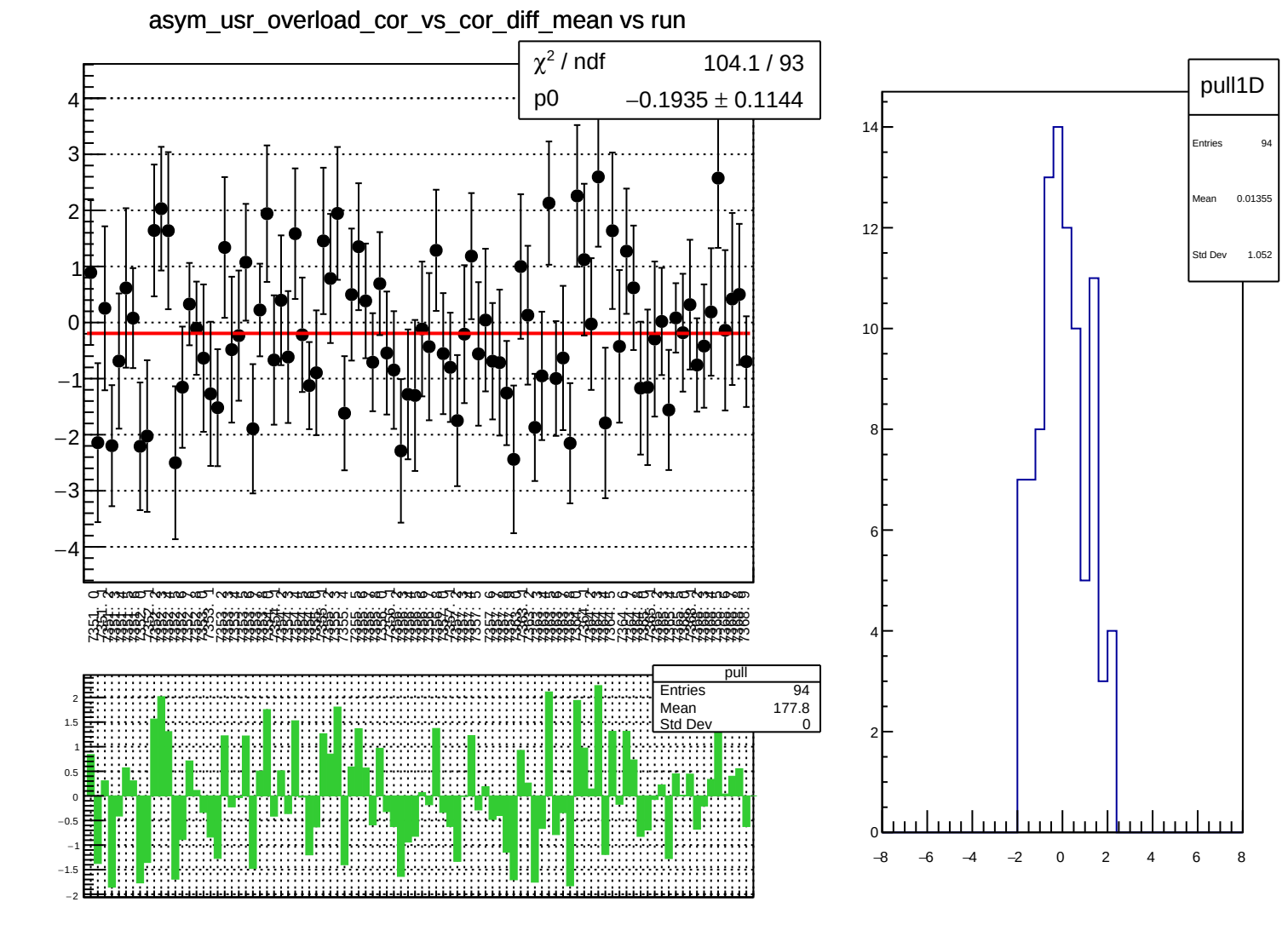

asym_usr_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.53e+05 / 93
p0 183.3 ± 0.142
600
500
400
300
200
100

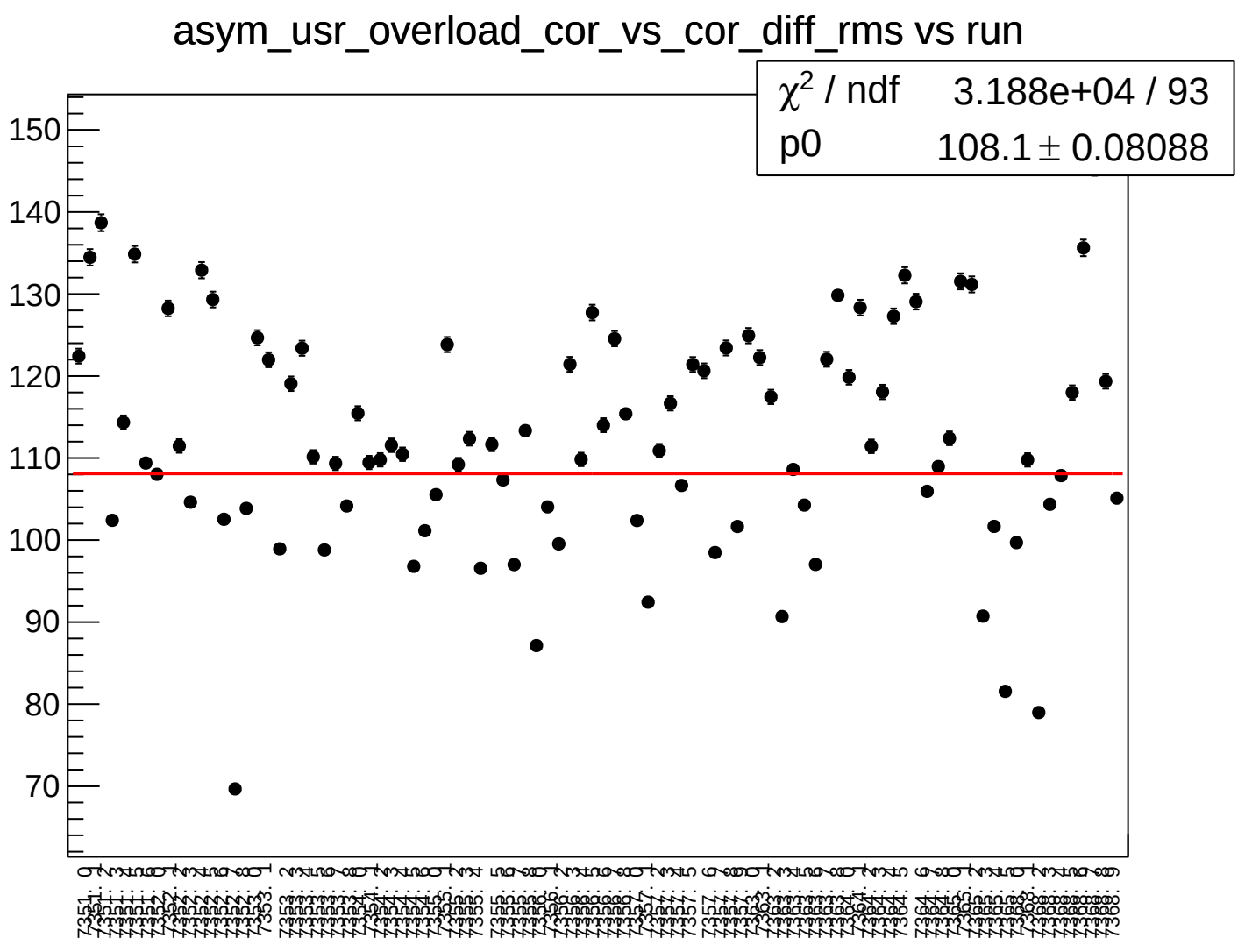

asym_usr_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 85.2 / 93
p0 0.4186 ± 0.2361
pull
Entries 94
Mean 26.67
Std Dev 43.27
pull1D
Entries 94
Mean −0.03813
Std Dev 0.9512

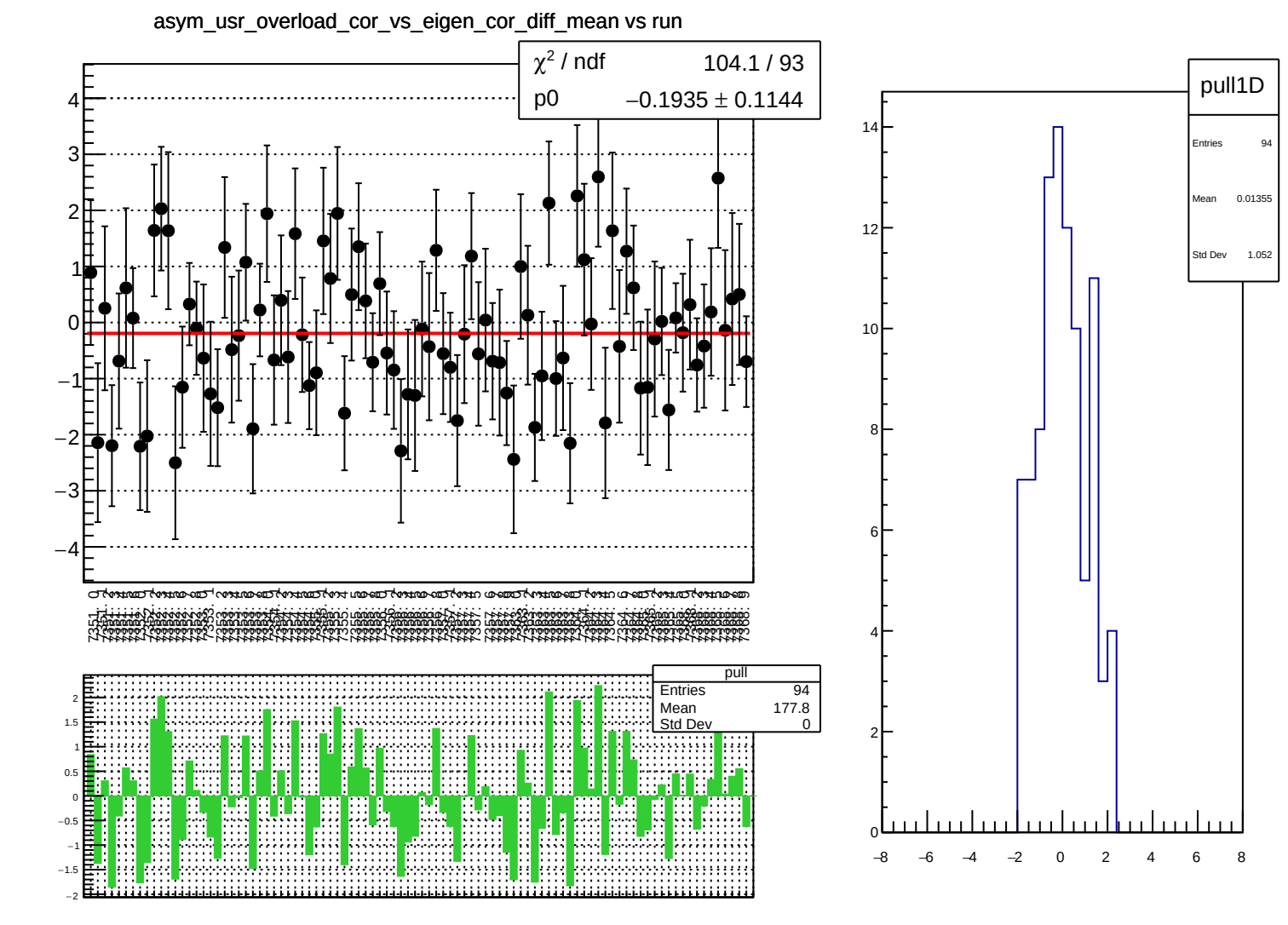

asym_usr_eigen_dit_vs_overload_cor_diff_rms vs run
χ^2 / ndf 1.087e+05 / 93
p0 218.4 ± 0.167
600
500
400
300
200
100

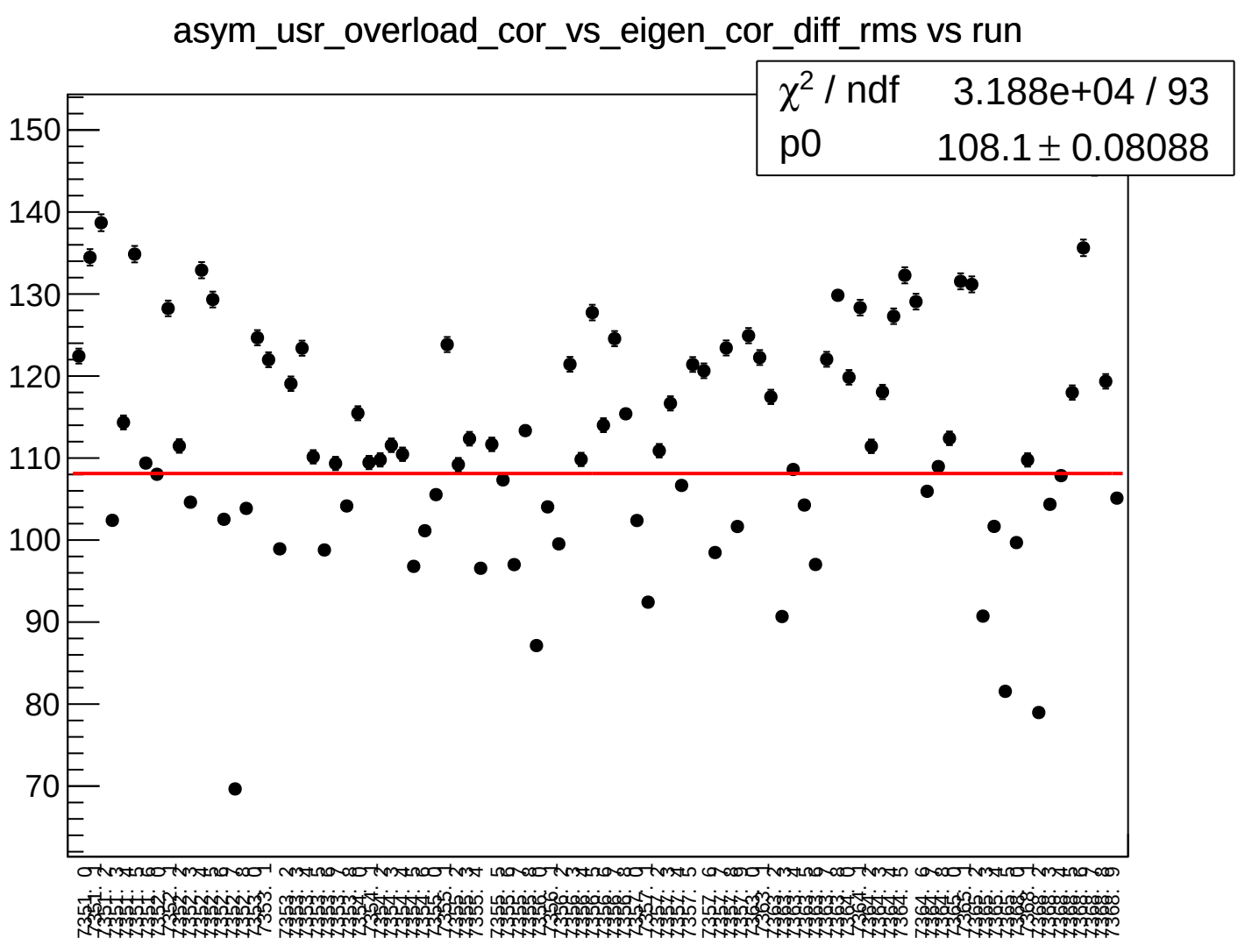

asym_usr_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 110.4 / 93
p0 9.912e−15 ± 2.321e−14
pull
Entries 94
Mean 25.45
Std Dev 30.85
pull1D
Entries 94
Mean 0.07084
Std Dev 1.081

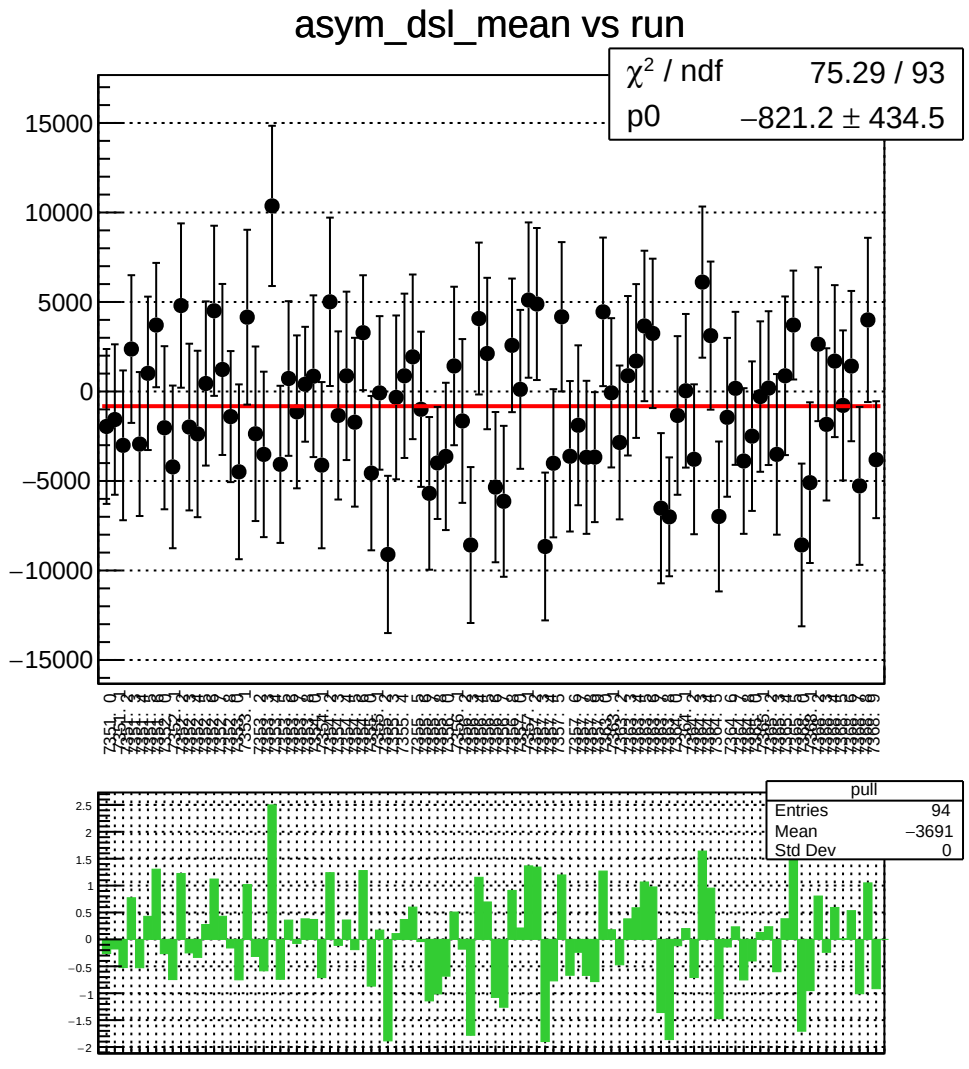

asym_usr_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.968e+05 / 93
p0 1.887e−11 ± 1.641e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

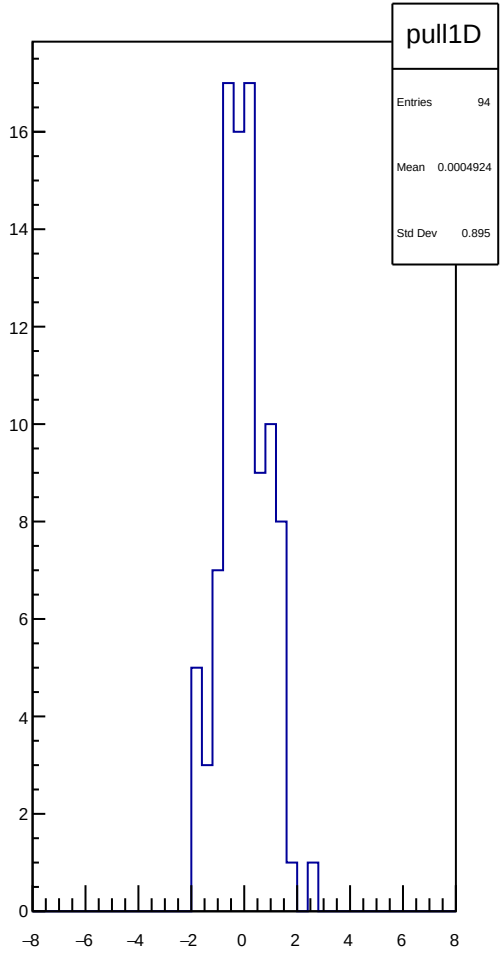

asym_usr_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 104.1 / 93
p0 −0.1935 ± 0.1144
pull
Entries 94
Mean 177.8
Std Dev 0
pull1D
Entries 94
Mean 0.01355
Std Dev 1.052

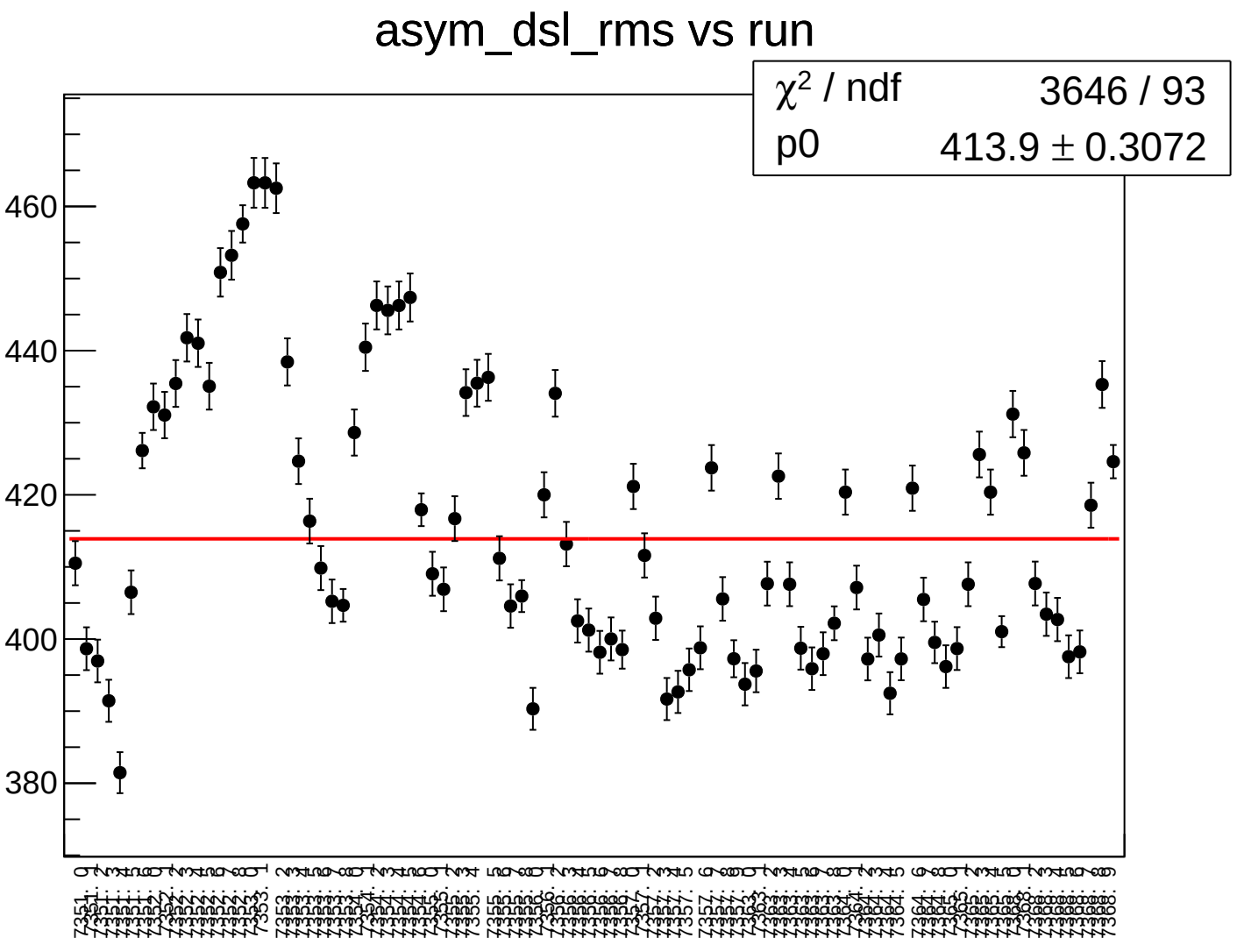

asym_usr_overload_cor_vs_cor_diff_rms vs run
χ^2 / ndf 3.188e+04 / 93
p0 108.1 ± 0.08088
150
140
130
120
110
100
90
80
70

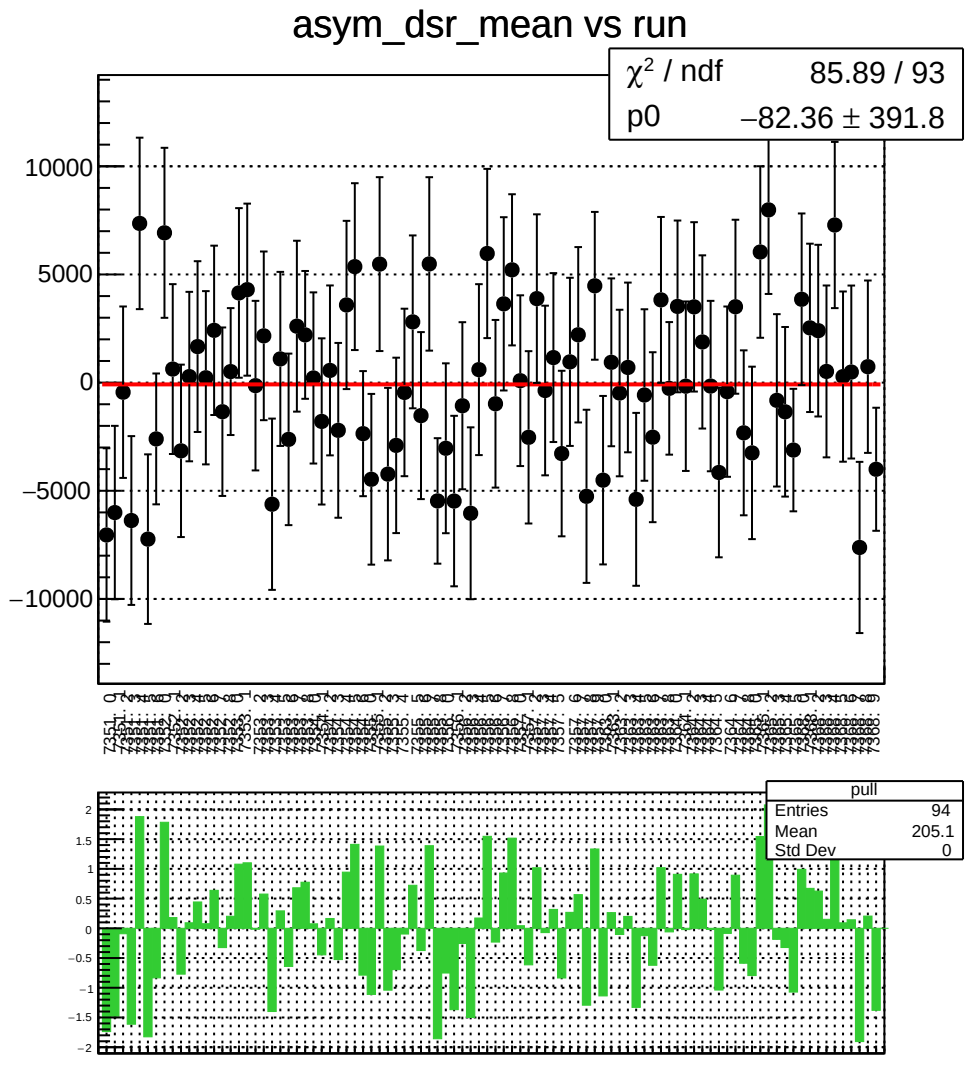

asym_usr_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.1 / 93
p0 −0.1935 ± 0.1144
pull
Entries 94
Mean 177.8
Std Dev 0
pull1D
Entries 94
Mean 0.01355
Std Dev 1.052

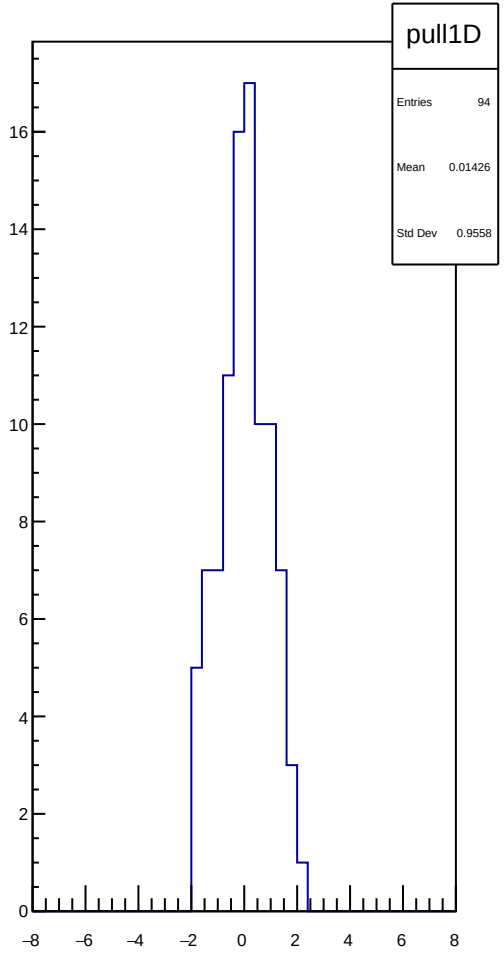

asym_usr_overload_cor_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 3.188e+04 / 93
p0 108.1 ± 0.08088
150
140
130
120
110
100
90
80
70

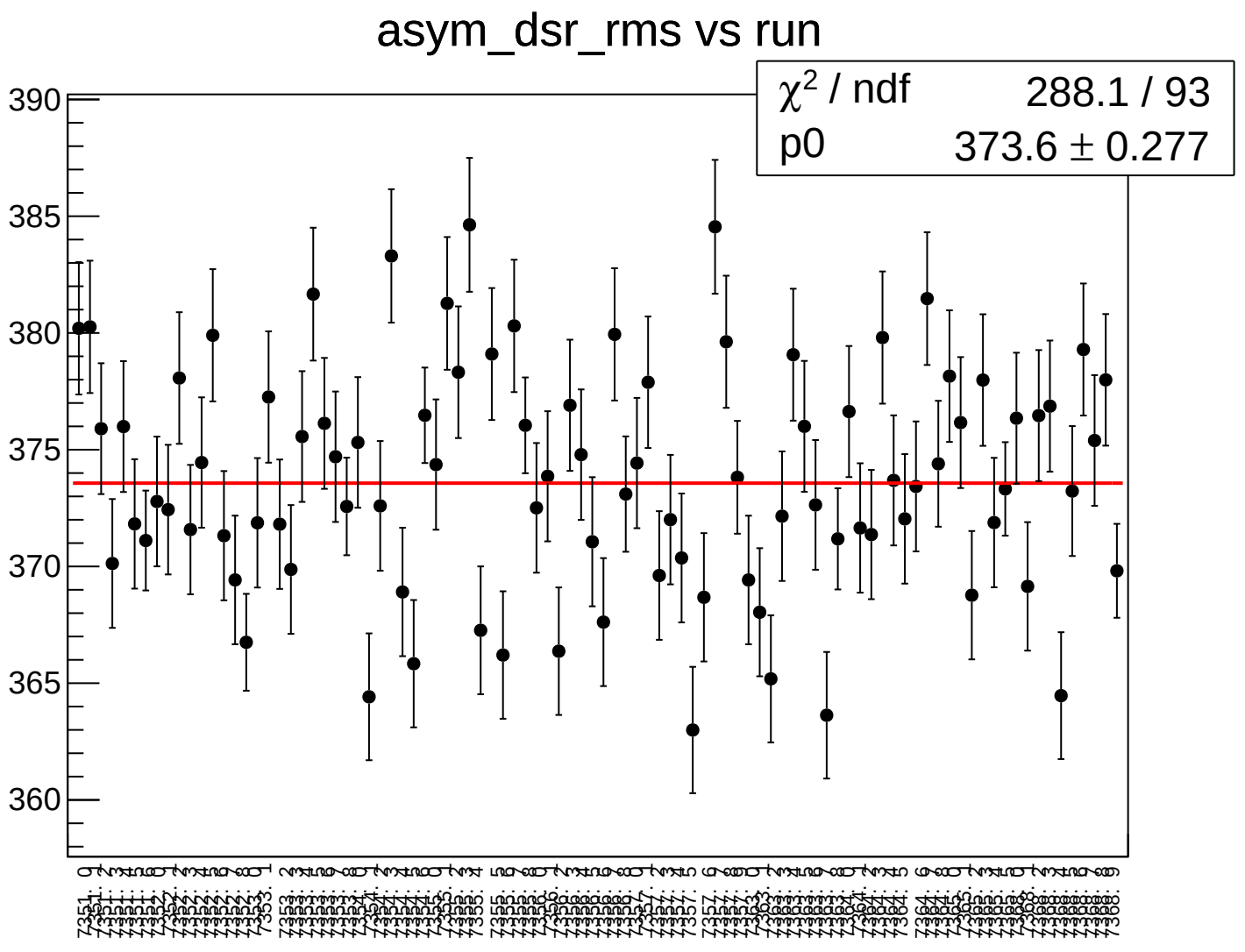

asym_dsl_mean vs run
χ² / ndf 75.29 / 93
p0 −821.2 ± 434.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean −3691
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

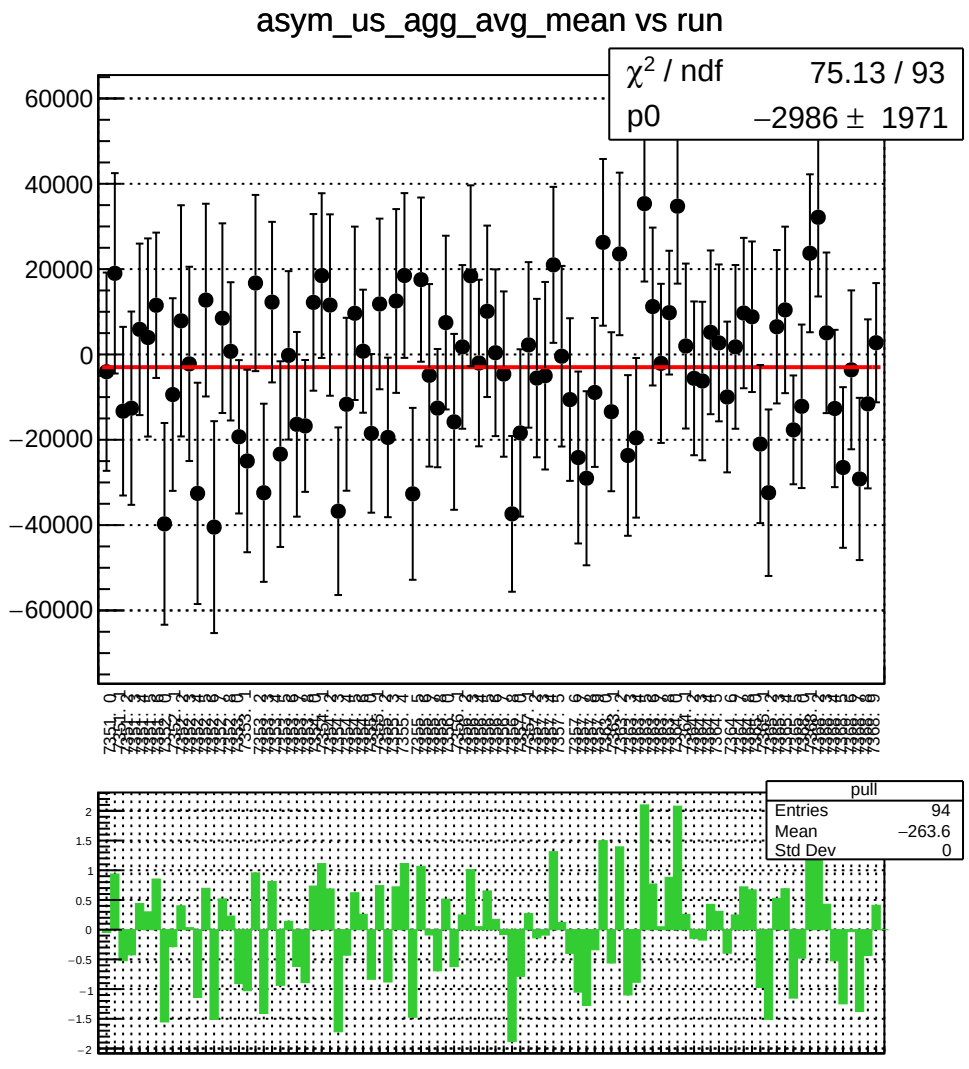

pull1D
Entries 94
Mean 0.0004924
Std Dev 0.895
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

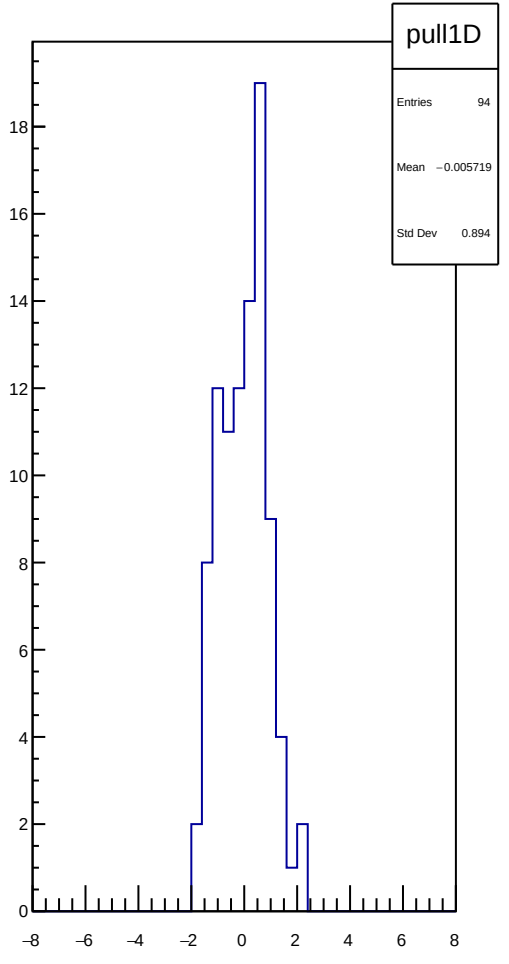

asym_dsl_rms vs run
χ² / ndf 3646 / 93
p0 413.9 ± 0.3072
460
440
420
400
380

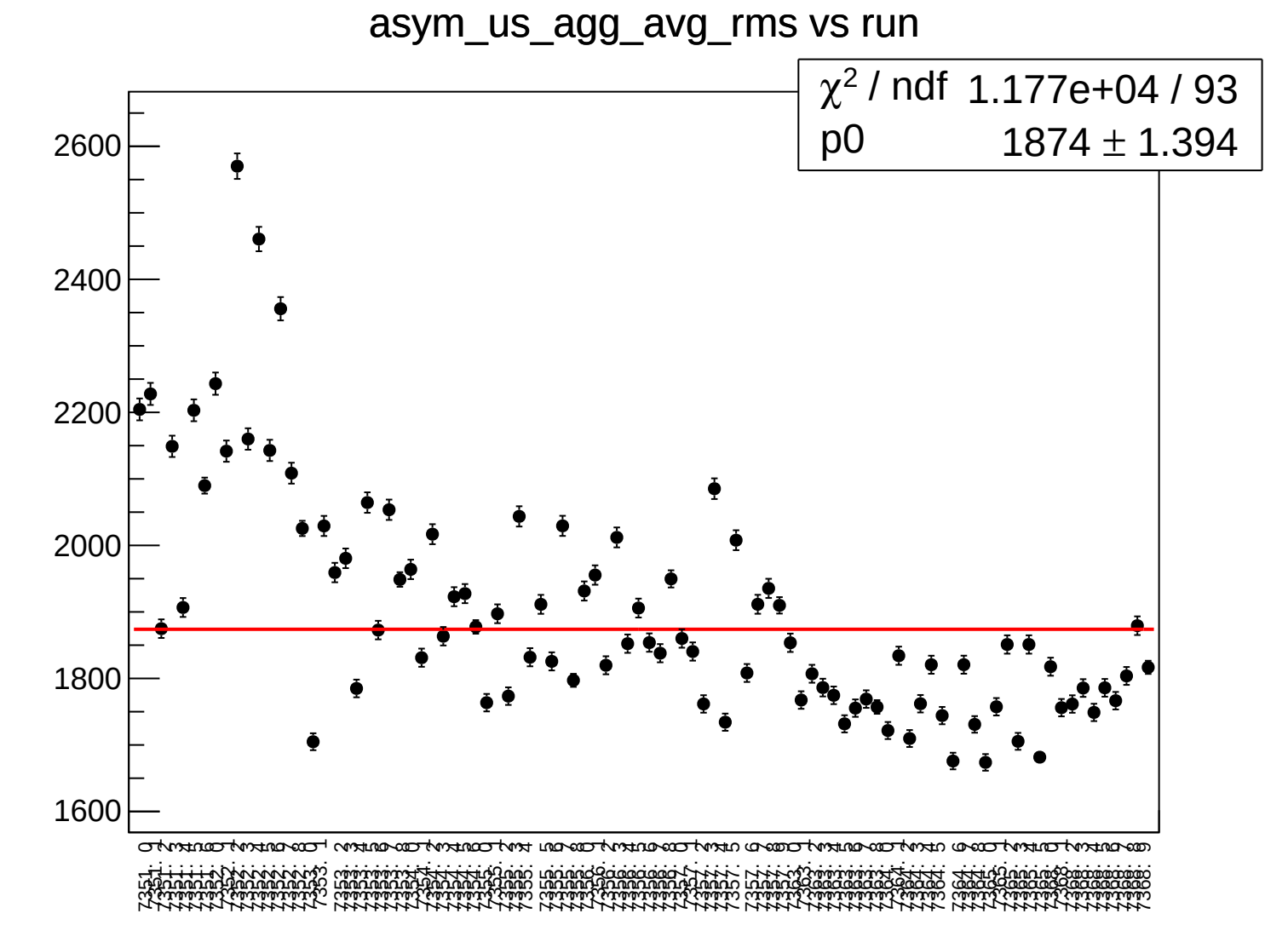

asym_dsr_mean vs run
χ² / ndf 85.89 / 93
p0 −82.36 ± 391.8
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 205.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

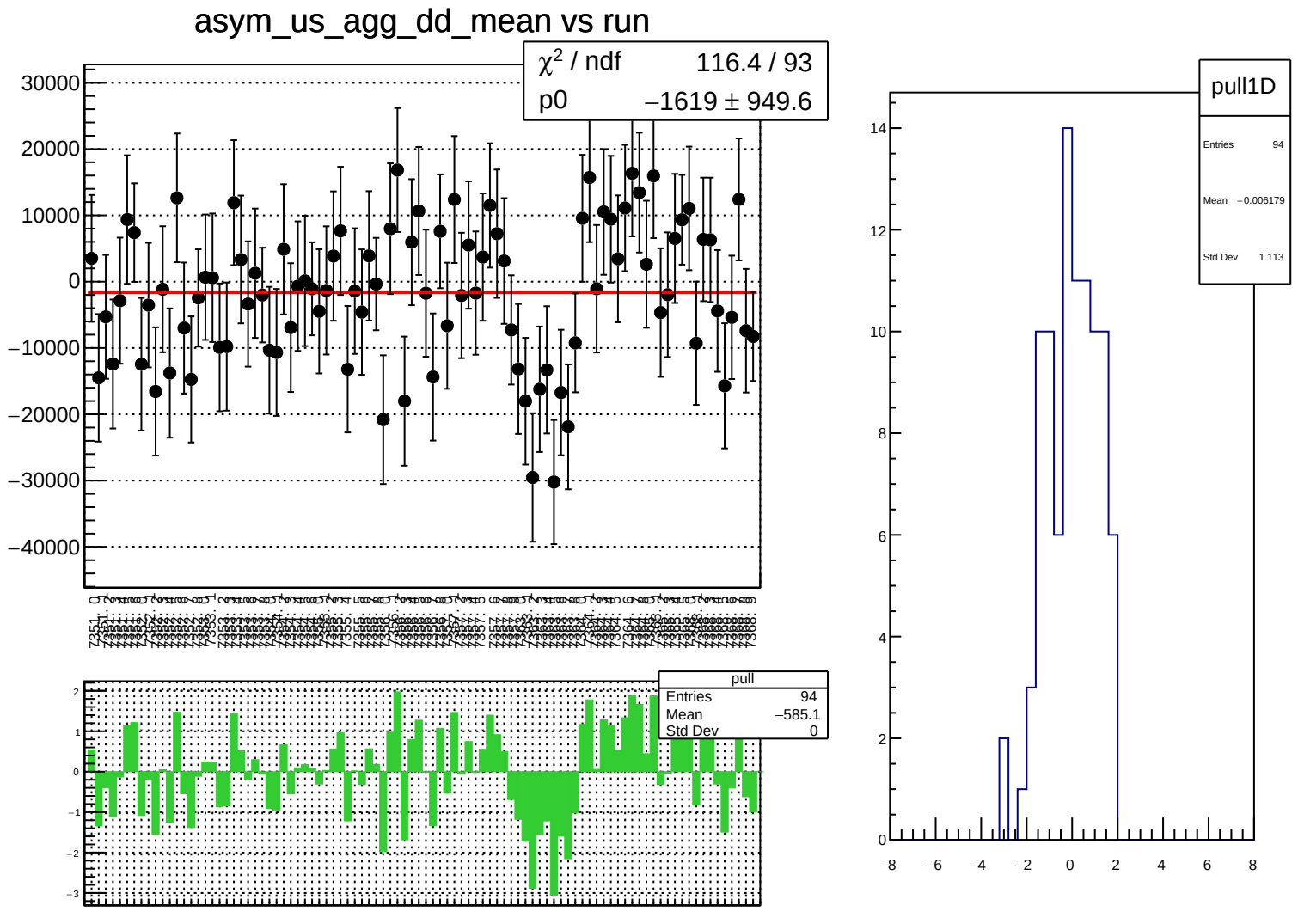

pull1D
Entries 94
Mean 0.01426
Std Dev 0.9558
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

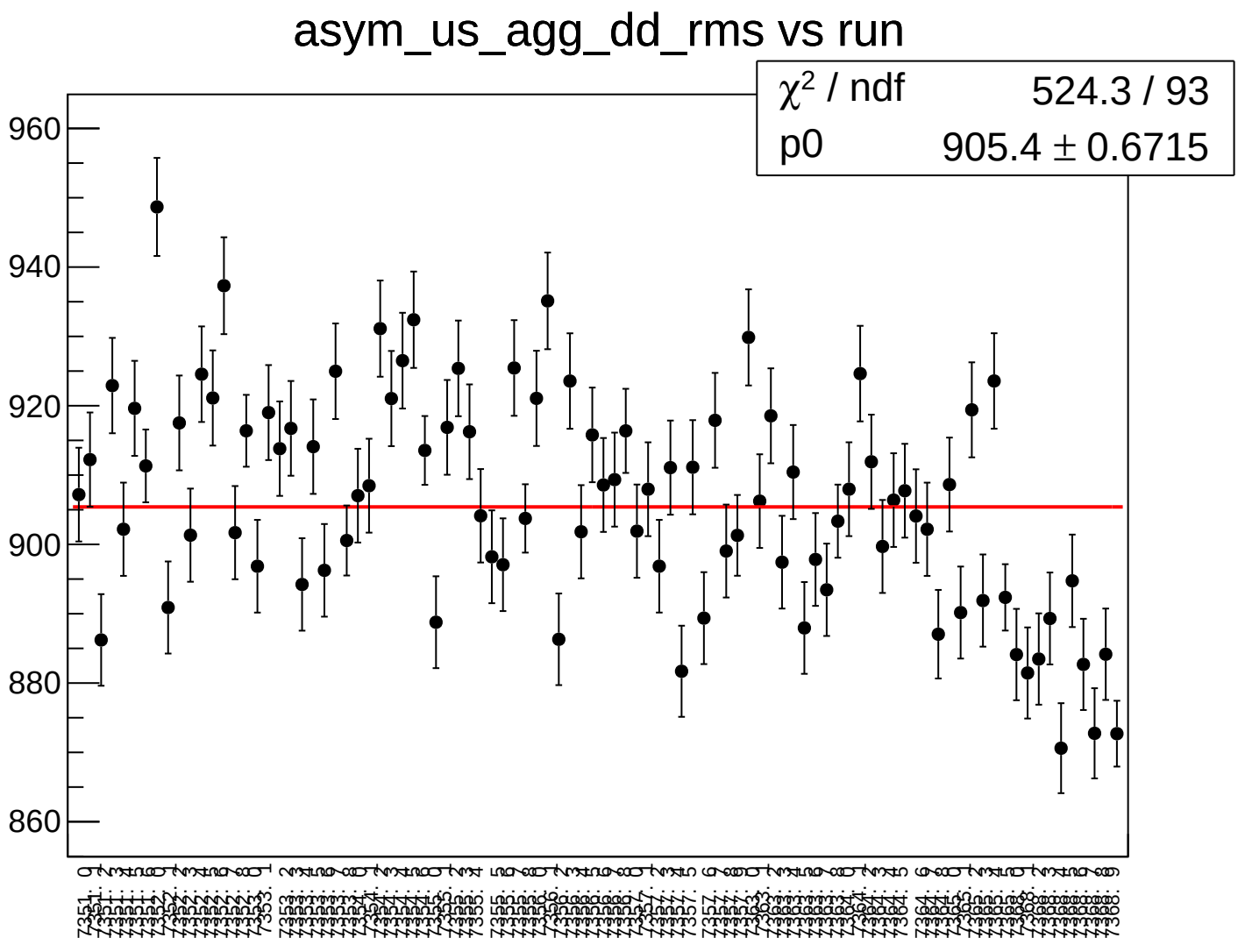

asym_dsr_rms vs run
χ^2 / ndf 288.1 / 93
p0 373.6 ± 0.277
390
385
380
375
370
365
360

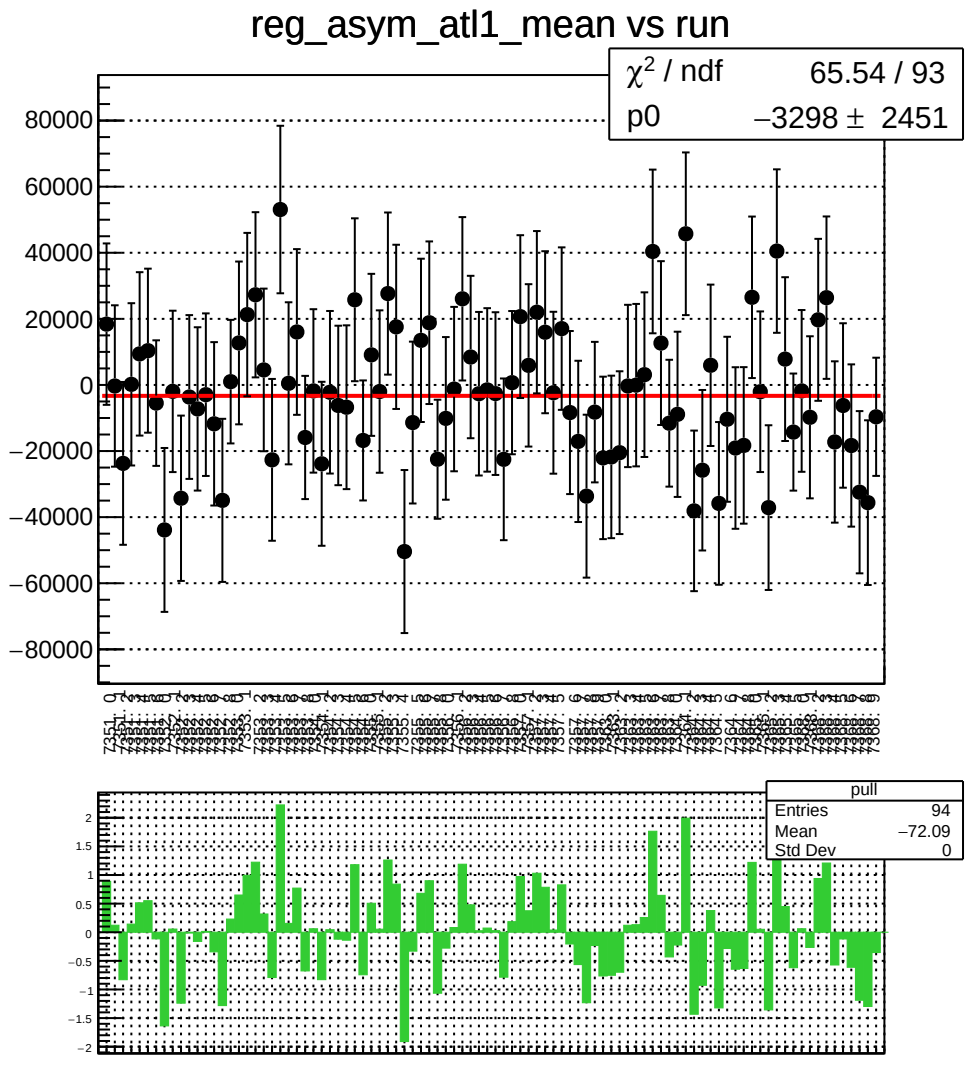

asym_us_agg_avg_mean vs run
χ² / ndf 75.13 / 93
p0 −2986 ± 1971
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −263.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

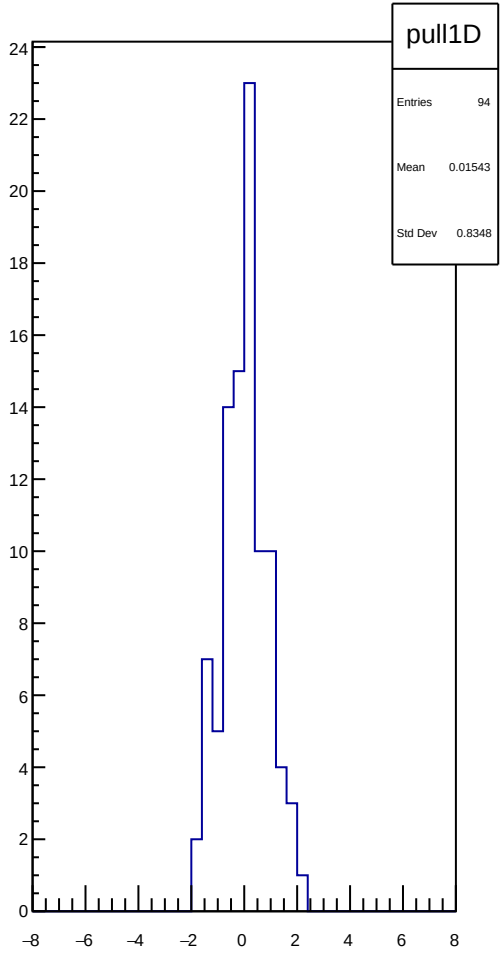

pull1D
Entries 94
Mean −0.005719
Std Dev 0.894
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

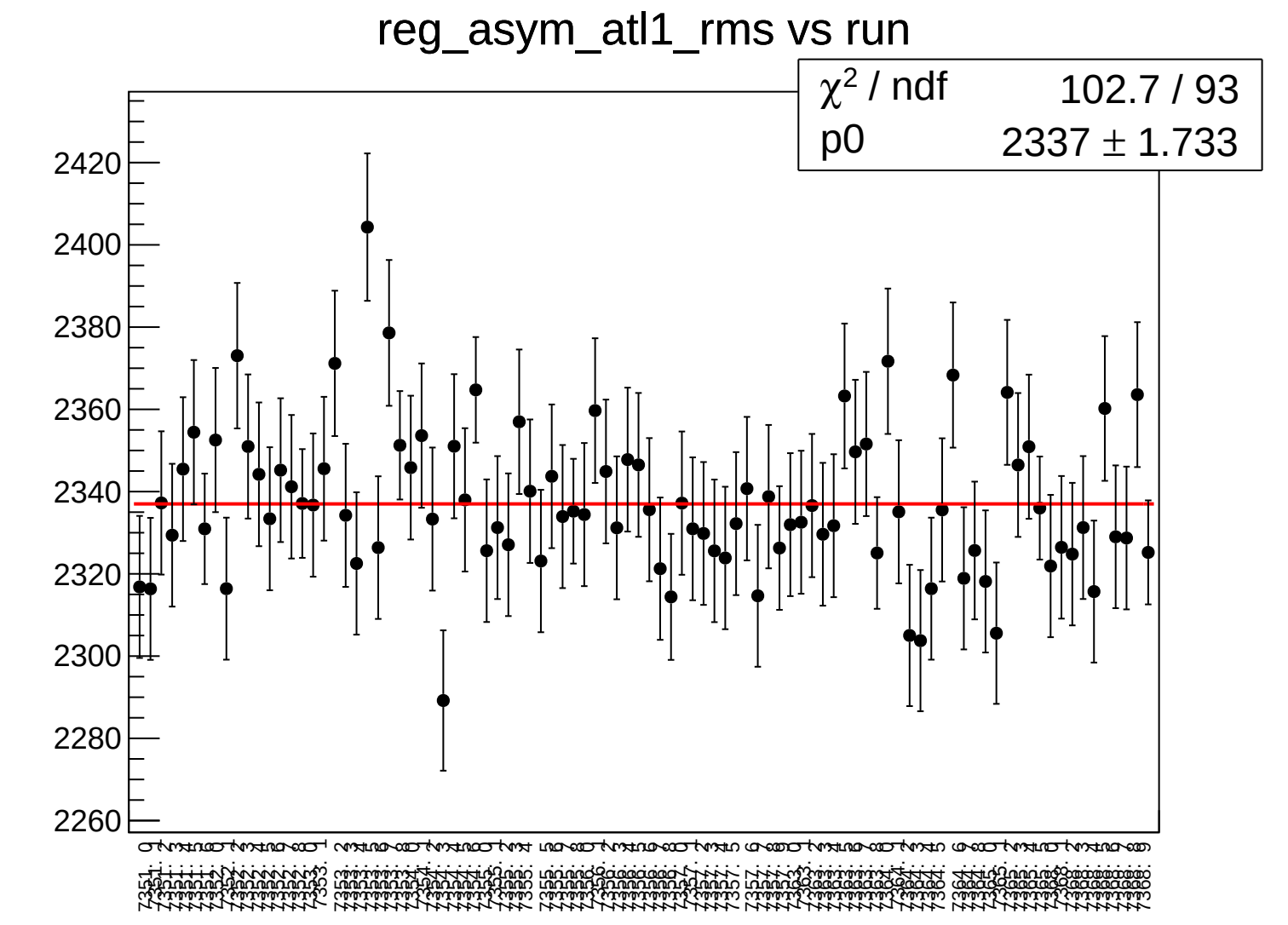

asym_us_agg_avg_rms vs run
χ^2 / ndf 1.177e+04 / 93
p0 1874 ± 1.394
2600
2400
2200
2000
1800
1600

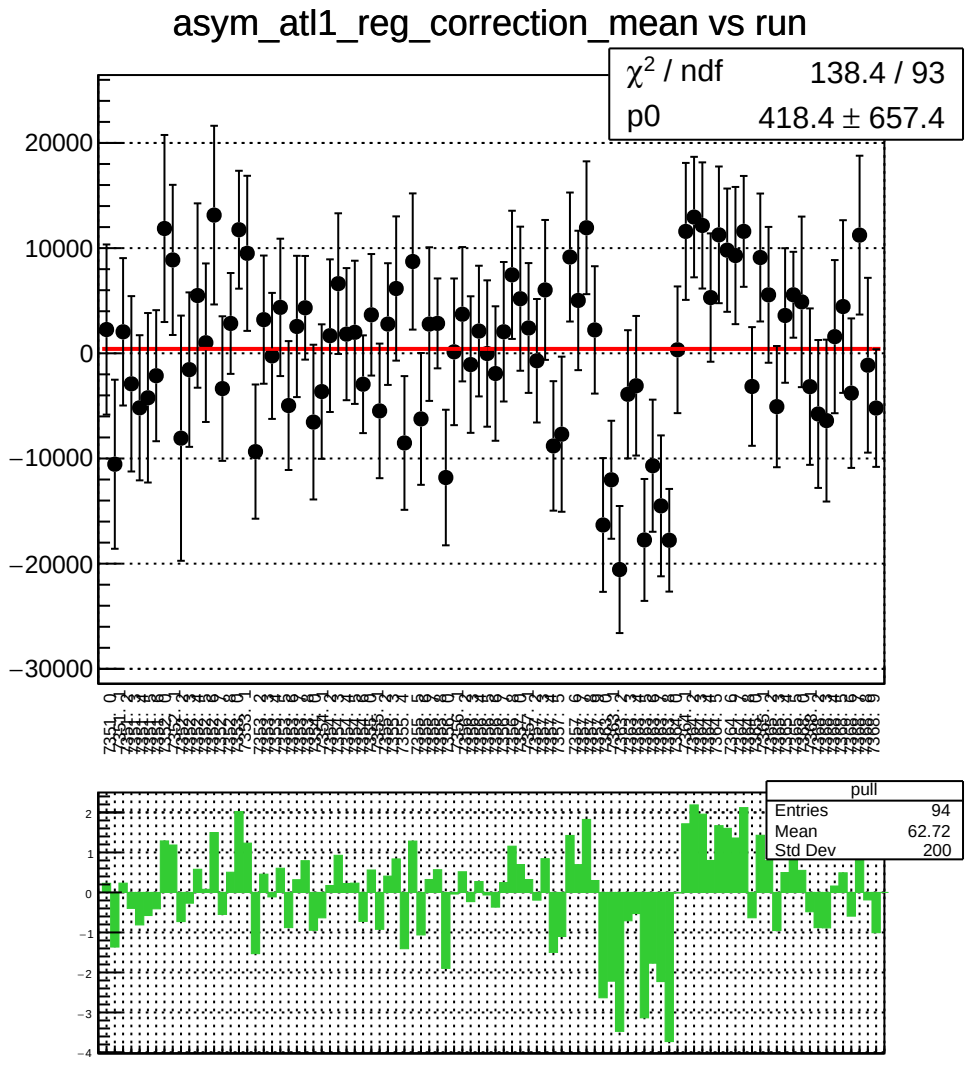

asym_us_agg_dd_mean vs run
χ^2 / ndf 116.4 / 93
p0 −1619 ± 949.6
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 94
Mean −585.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.006179
Std Dev 1.113
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

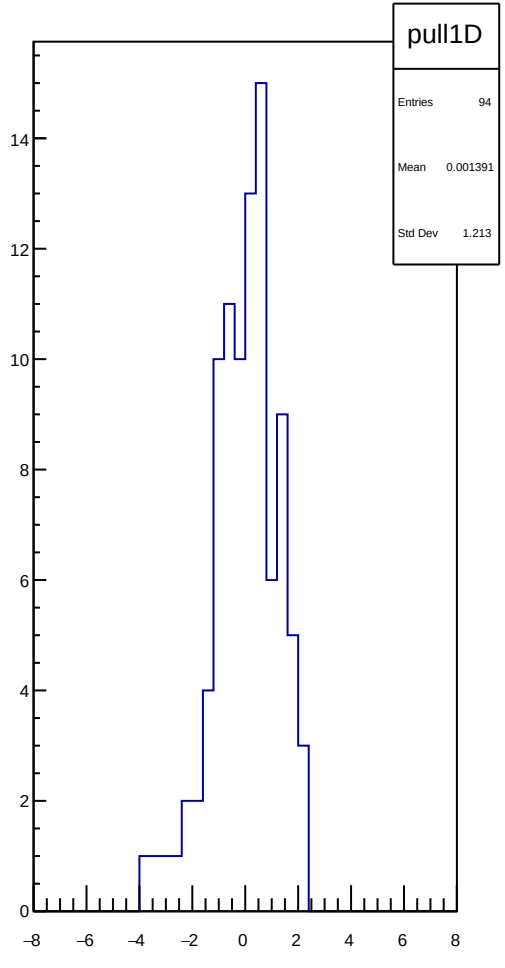

asym_us_agg_dd_rms vs run
χ^2 / ndf 524.3 / 93
p0 905.4 ± 0.6715
960
940
920
900
880
860

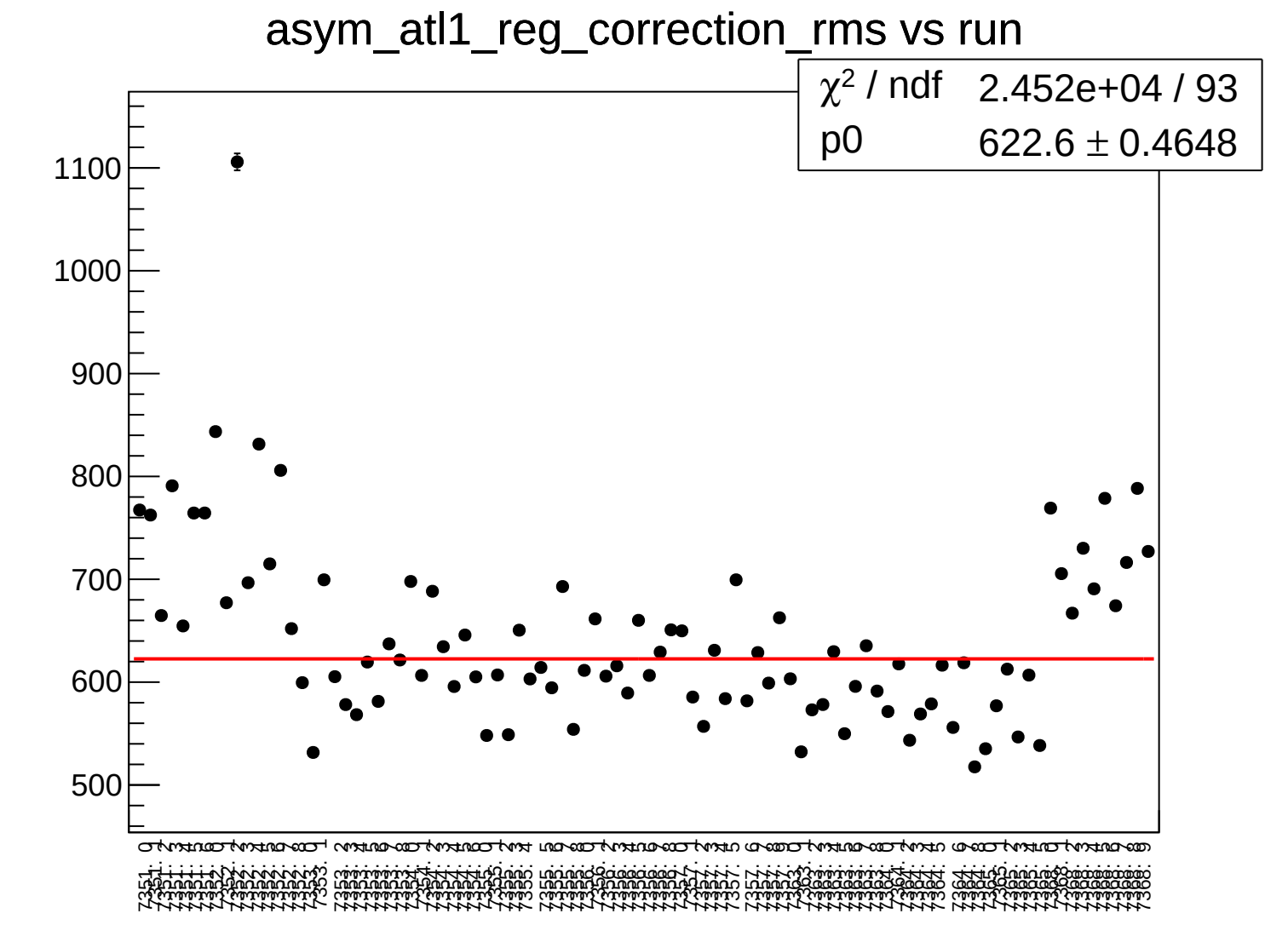

reg_asym_atl1_mean vs run
χ² / ndf 65.54 / 93
p0 −3298 ± 2451
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean −72.09
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

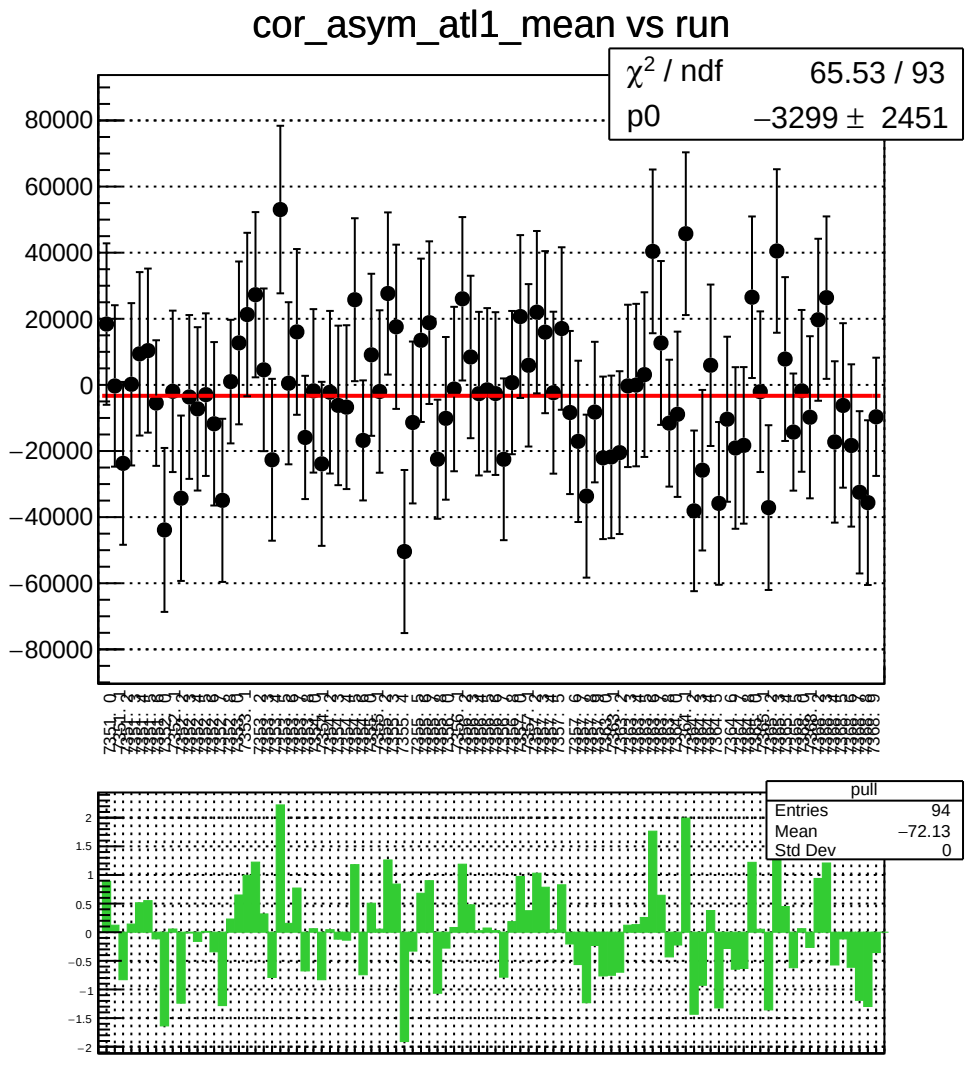

pull1D
Entries 94
Mean 0.01543
Std Dev 0.8348
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

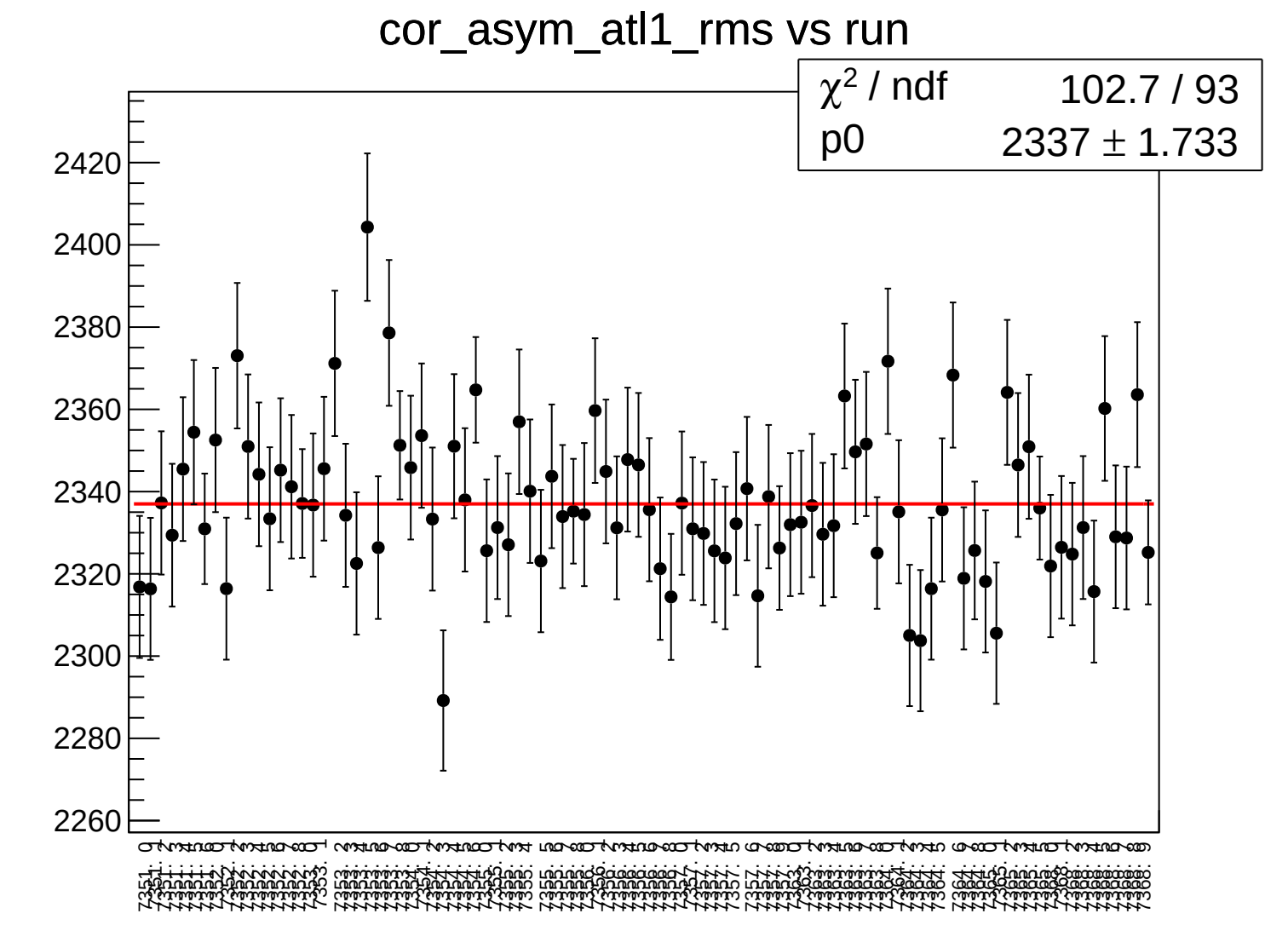

reg_asym_atl1_rms vs run
χ^2 / ndf 102.7 / 93
p0 2337 ± 1.733
2420
2400
2380
2360
2340
2320
2300
2280
2260

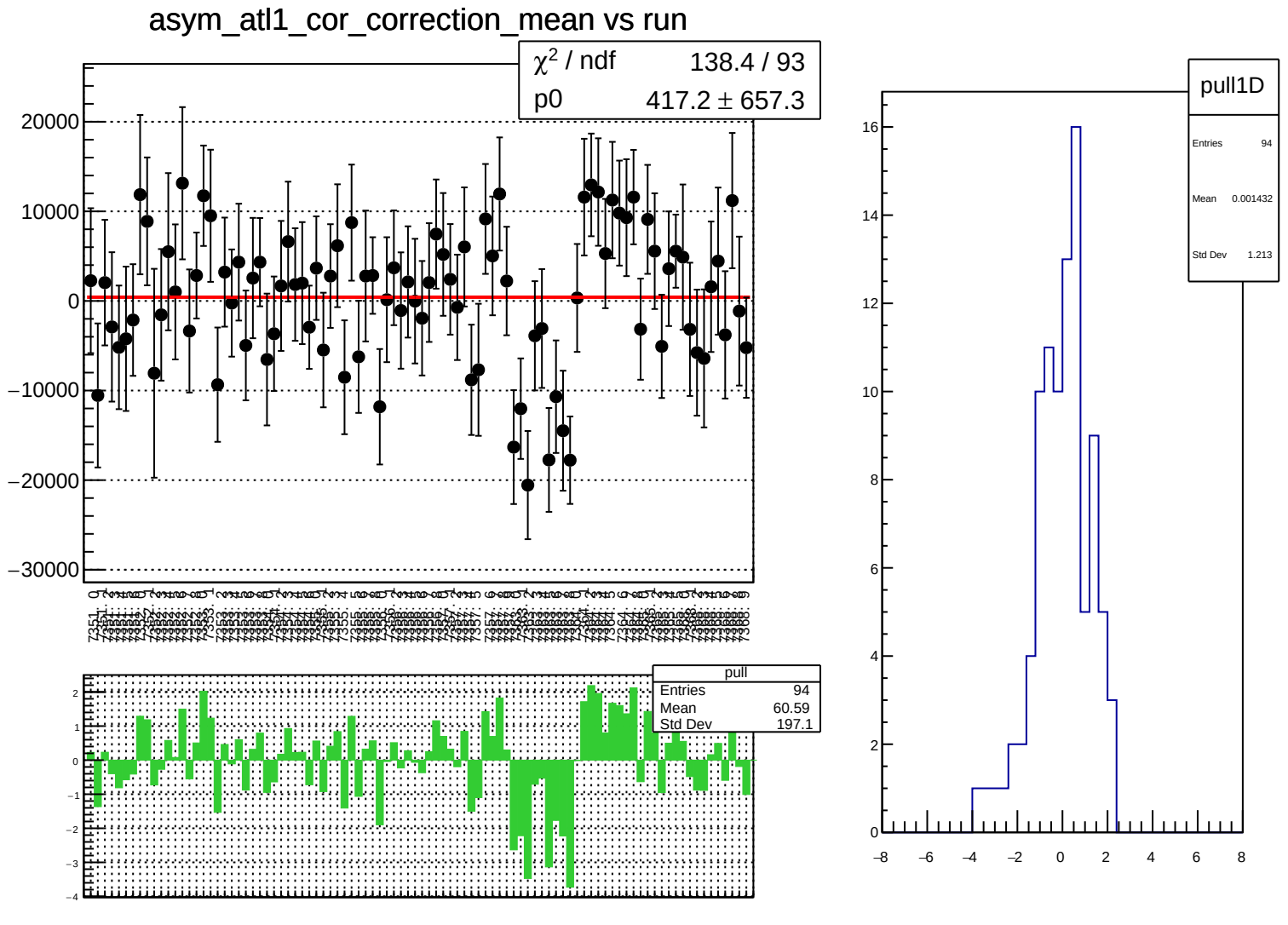

asym_atl1_reg_correction_mean vs run
χ² / ndf 138.4 / 93
p0 418.4 ± 657.4
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean 62.72
Std Dev 200
2
1
0
−1
−2
−3
−4

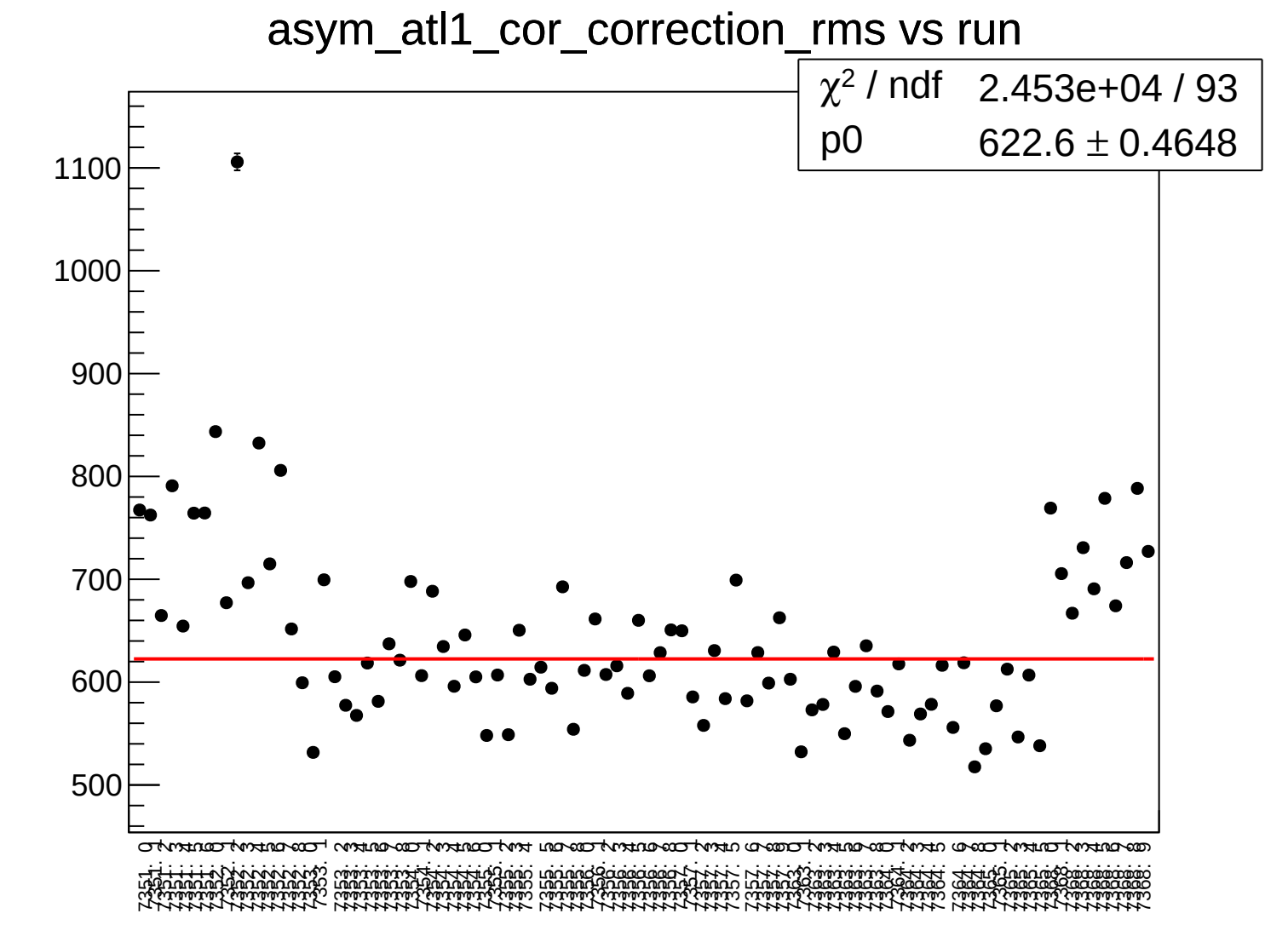

pull1D
Entries 94
Mean 0.001391
Std Dev 1.213
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

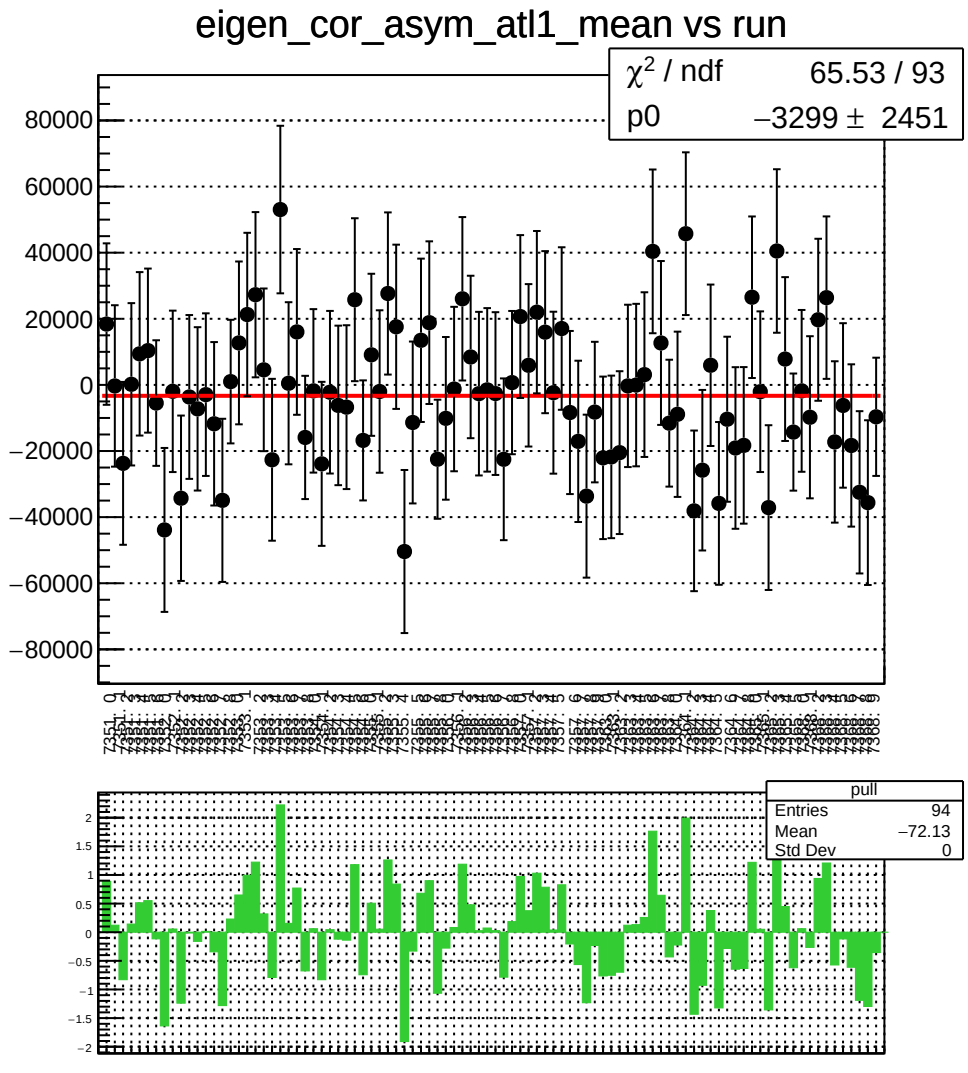

asym_atl1_reg_correction_rms vs run
χ² / ndf 2.452e+04 / 93
p0 622.6 ± 0.4648
1100
1000
900
800
700
600
500

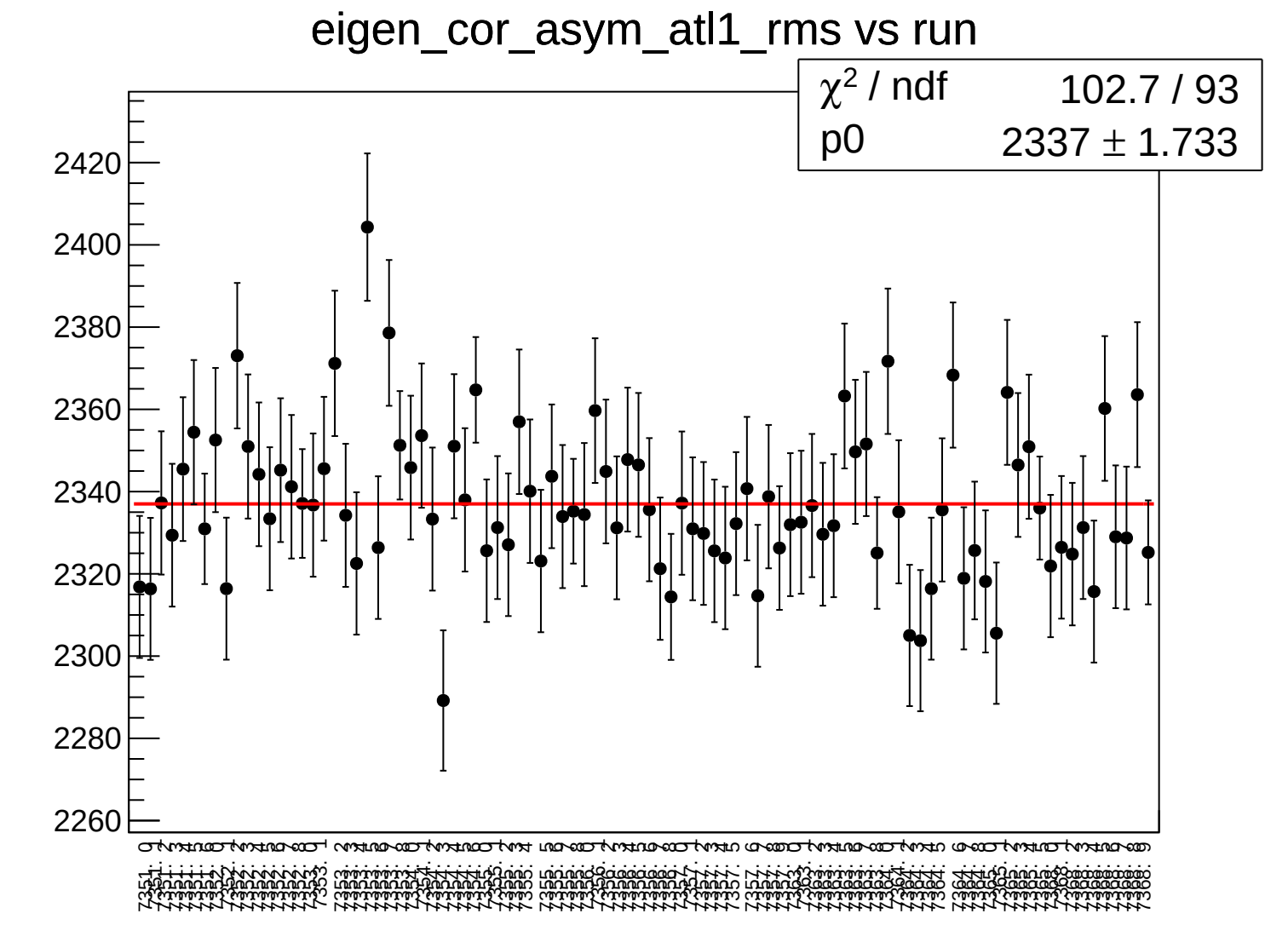

cor_asym_atl1_mean vs run
χ² / ndf 65.53 / 93
p0 −3299 ± 2451
pull
Entries 94
Mean −72.13
Std Dev 0
pull1D
Entries 94
Mean 0.01544
Std Dev 0.8348

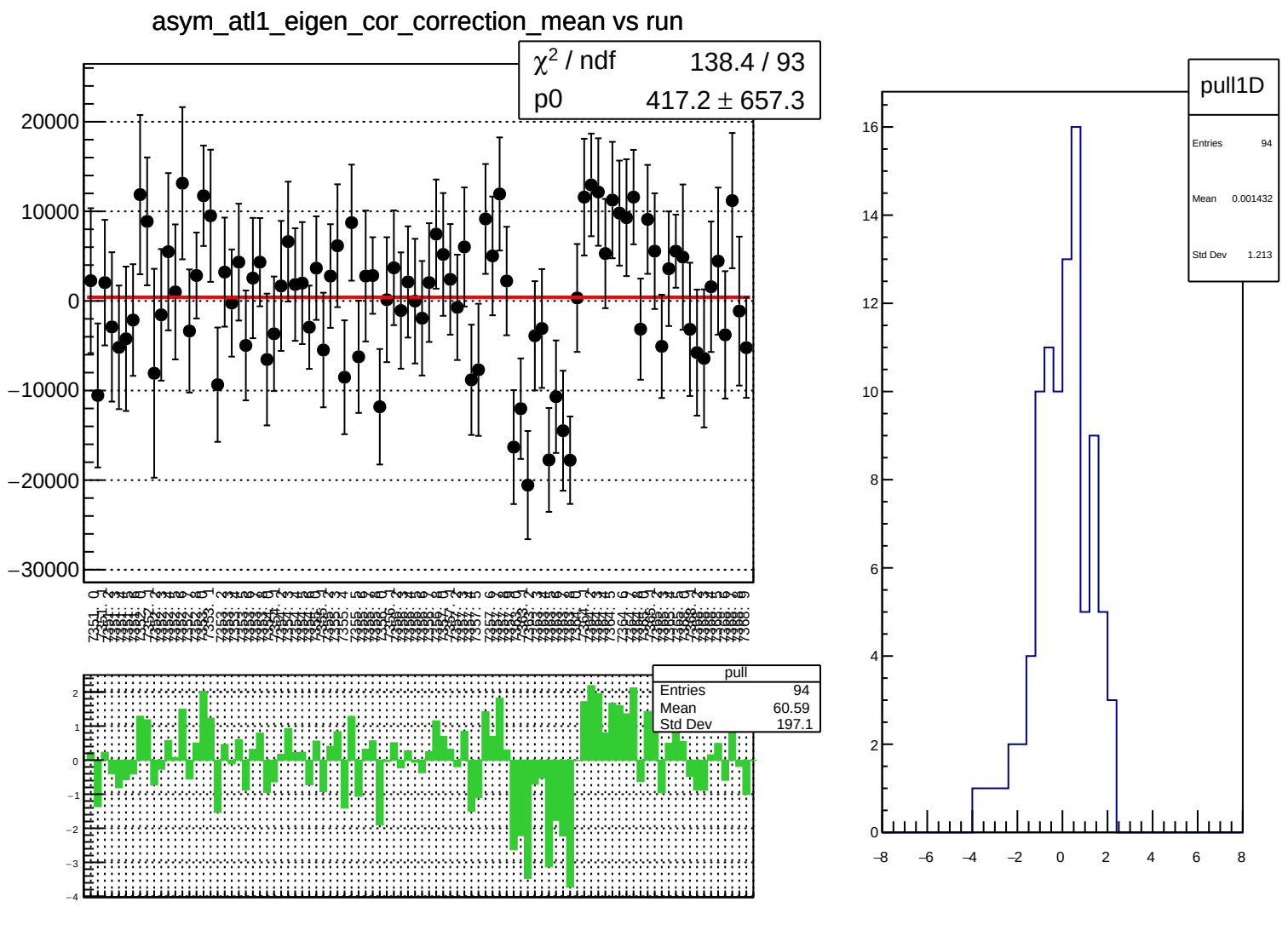

cor_asym_atl1_rms vs run
χ^2 / ndf 102.7 / 93
p0 2337 ± 1.733
2420
2400
2380
2360
2340
2320
2300
2280
2260

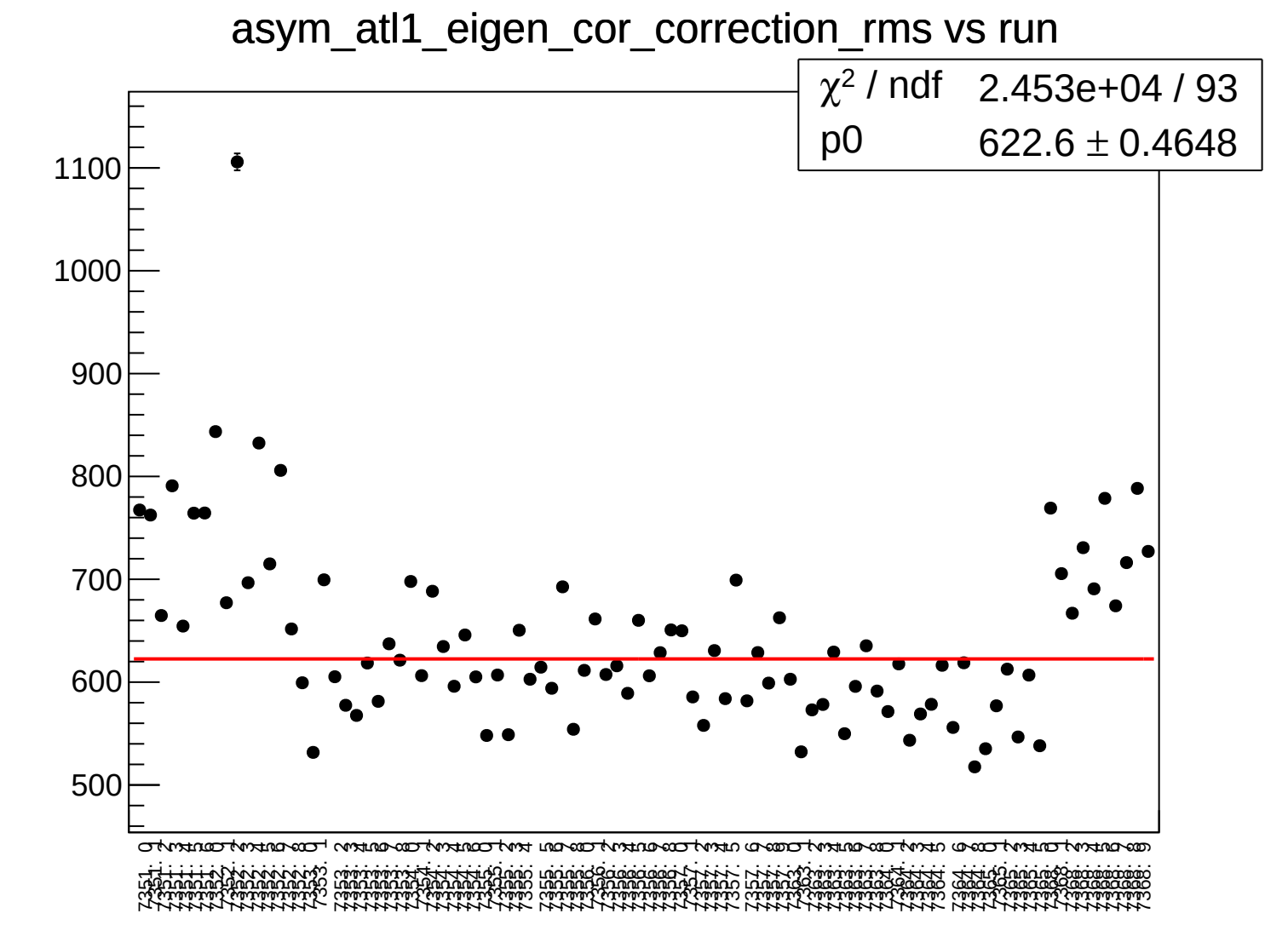

asym_atl1_cor_correction_mean vs run
χ² / ndf 138.4 / 93
p0 417.2 ± 657.3
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean 60.59
Std Dev 197.1
2
1
0
−1
−2
−3
−4
pull1D
Entries 94
Mean 0.001432
Std Dev 1.213
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

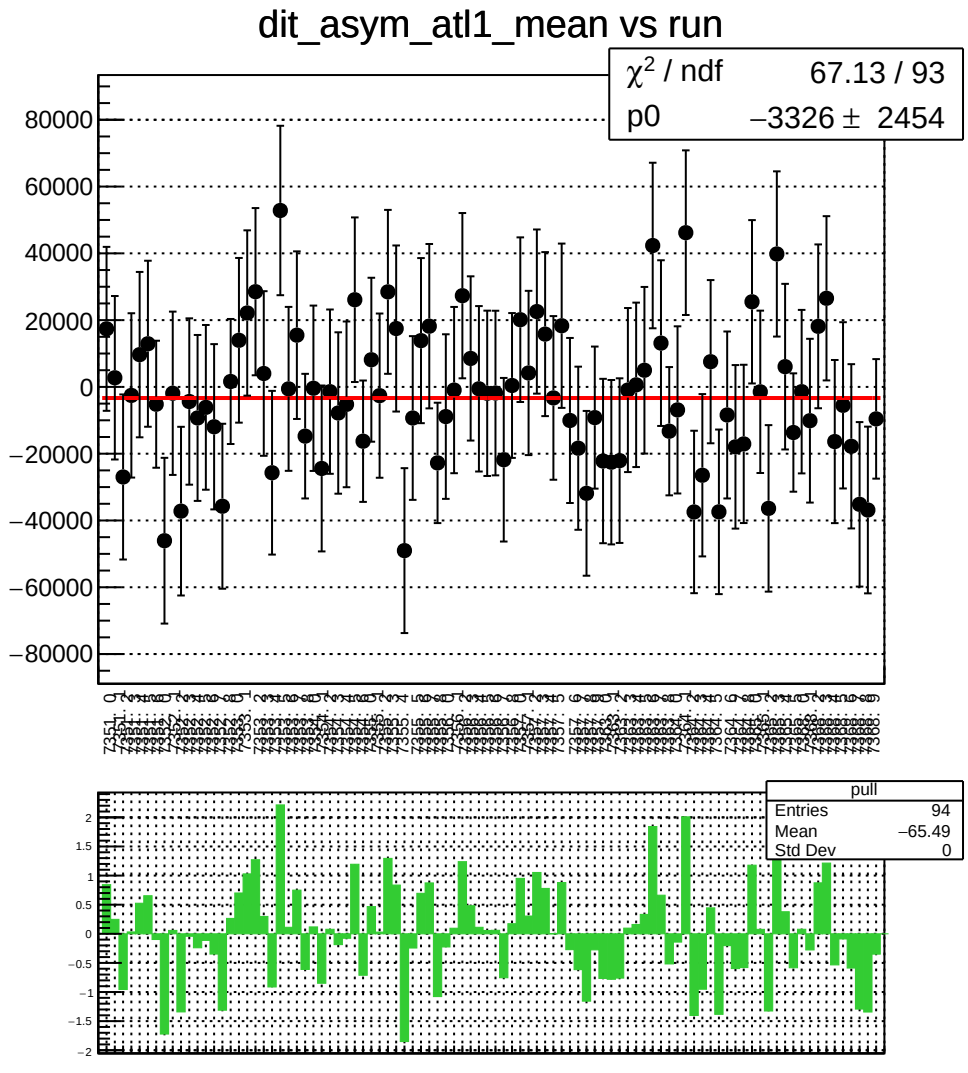

asym_atl1_cor_correction_rms vs run
χ² / ndf 2.453e+04 / 93
p0 622.6 ± 0.4648
1100
1000
900
800
700
600
500

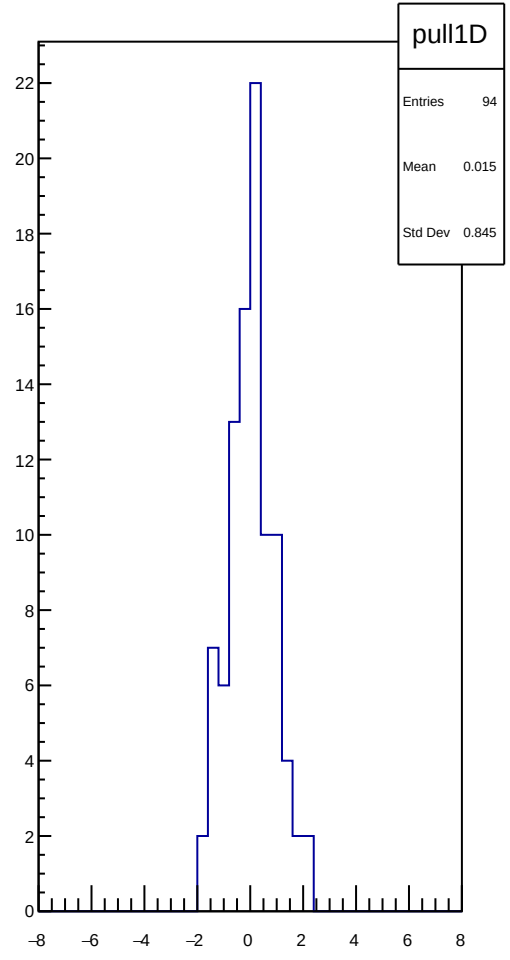

eigen_cor_asym_atl1_mean vs run
χ² / ndf 65.53 / 93
p0 −3299 ± 2451
pull
Entries 94
Mean −72.13
Std Dev 0
pull1D
Entries 94
Mean 0.01544
Std Dev 0.8348

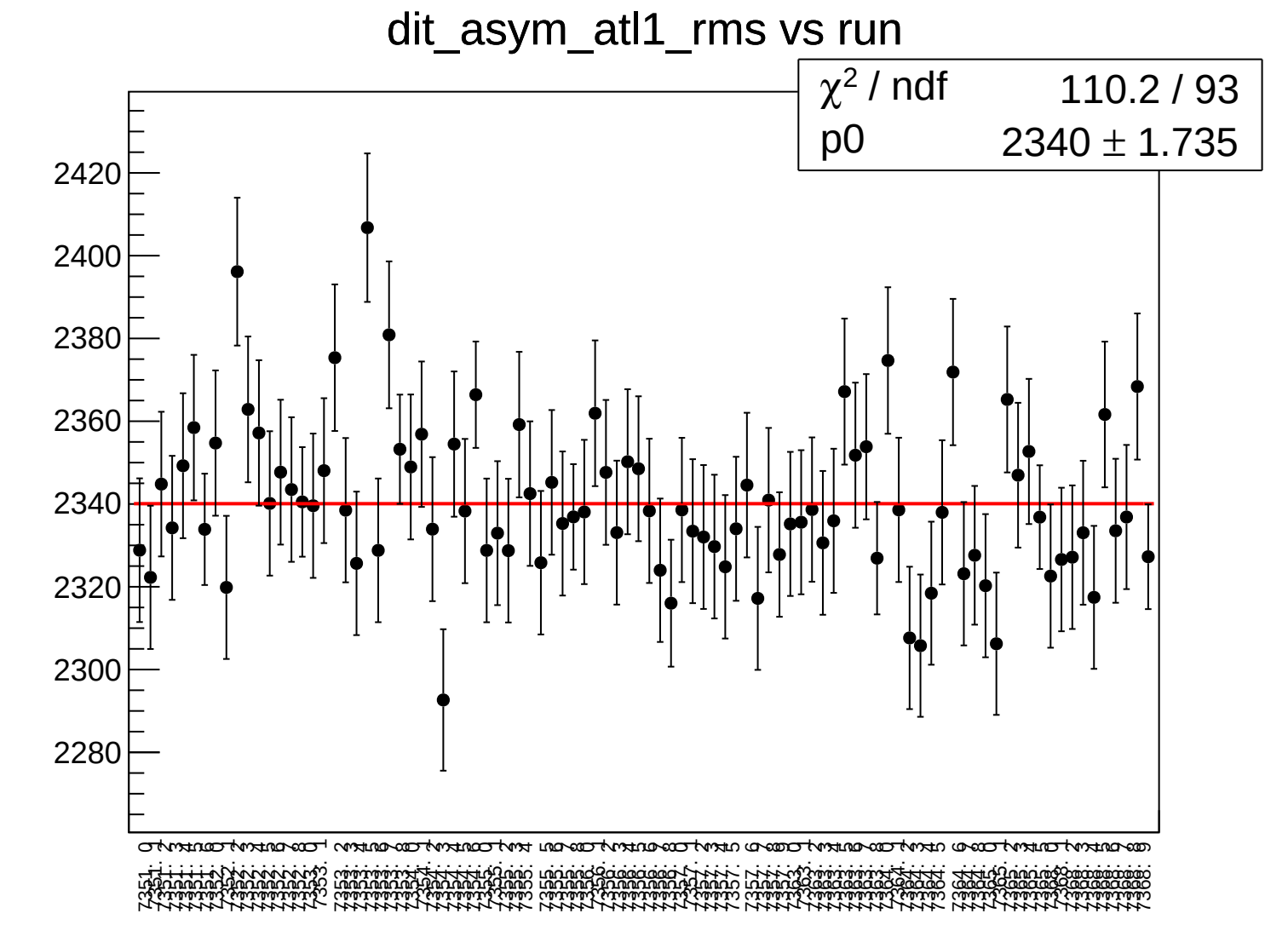

eigen_cor_asym_atl1_rms vs run
χ^2 / ndf 102.7 / 93
p0 2337 ± 1.733
2420
2400
2380
2360
2340
2320
2300
2280
2260

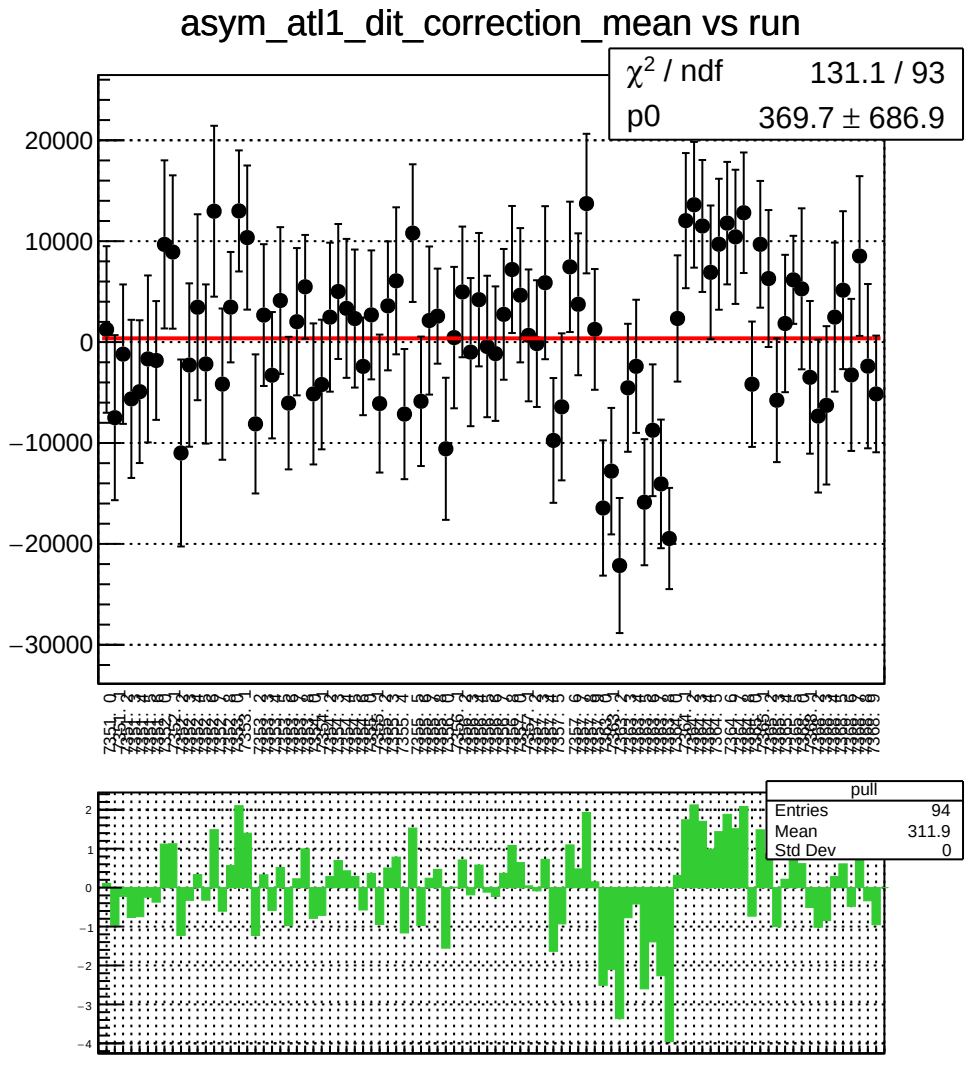

asym_atl1_eigen_cor_correction_mean vs run
χ² / ndf 138.4 / 93
p0 417.2 ± 657.3
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean 60.59
Std Dev 197.1
2
1
0
−1
−2
−3
−4
pull1D
Entries 94
Mean 0.001432
Std Dev 1.213
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

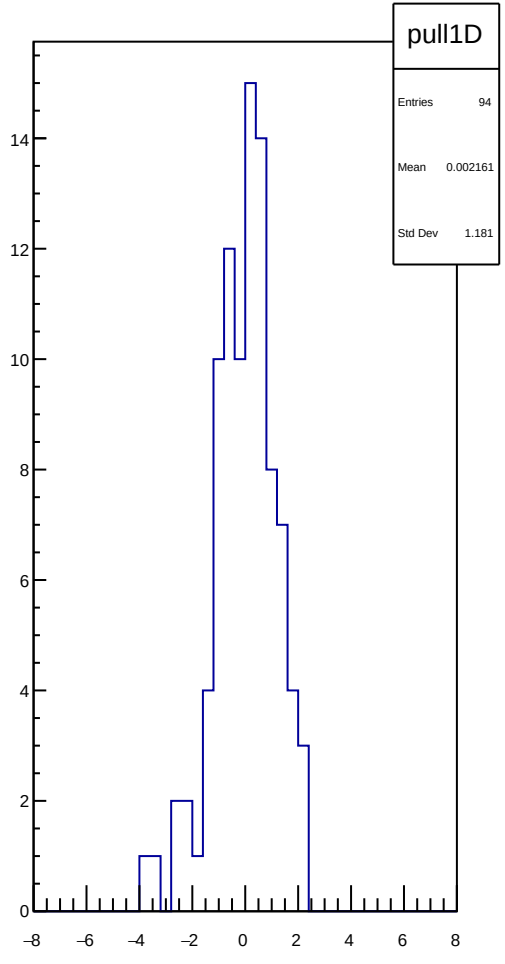

asym_atl1_eigen_cor_correction_rms vs run
χ² / ndf 2.453e+04 / 93
p0 622.6 ± 0.4648
1100
1000
900
800
700
600
500

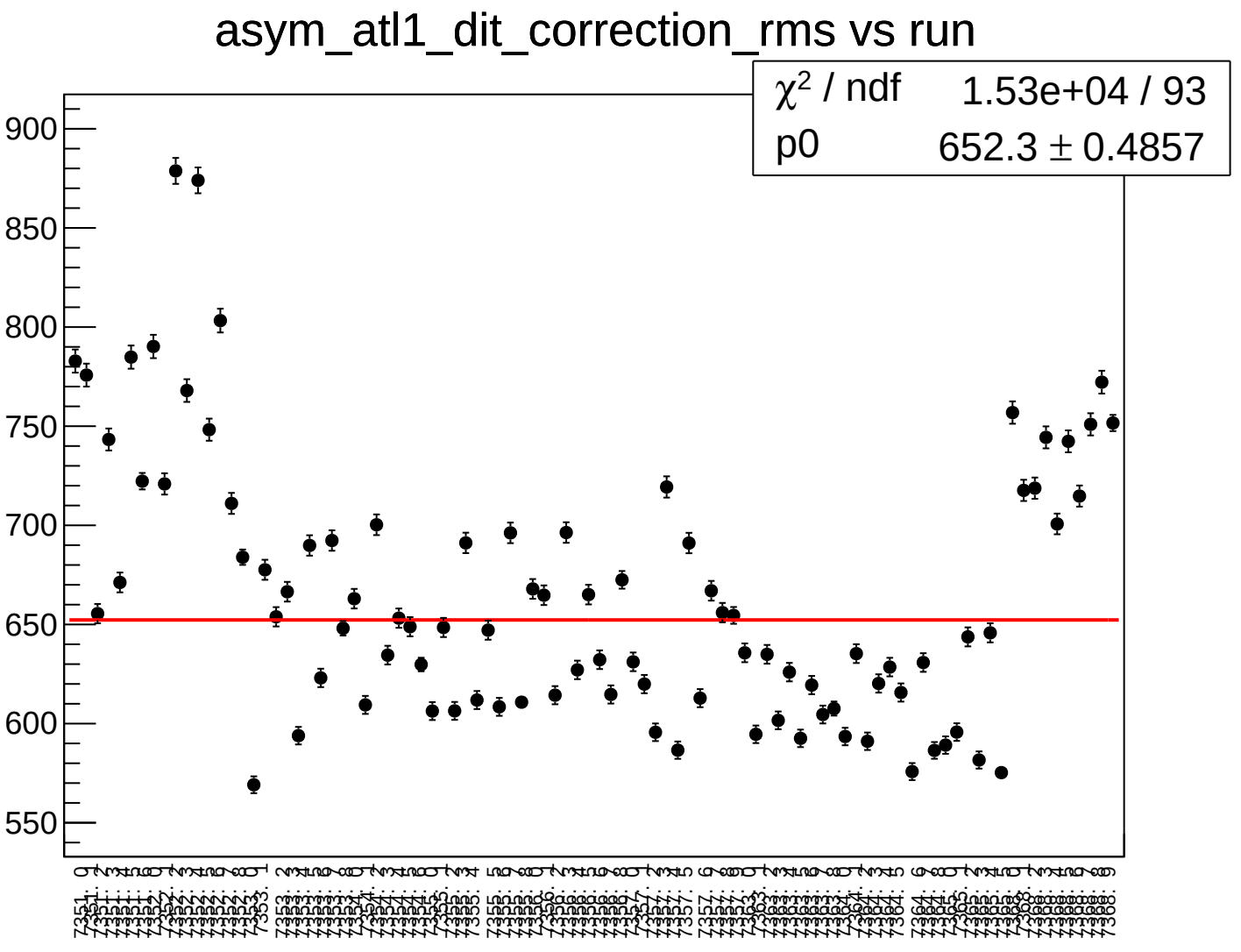

dit_asym_atl1_mean vs run
χ² / ndf 67.13 / 93
p0 −3326 ± 2454
pull
Entries 94
Mean −65.49
Std Dev 0

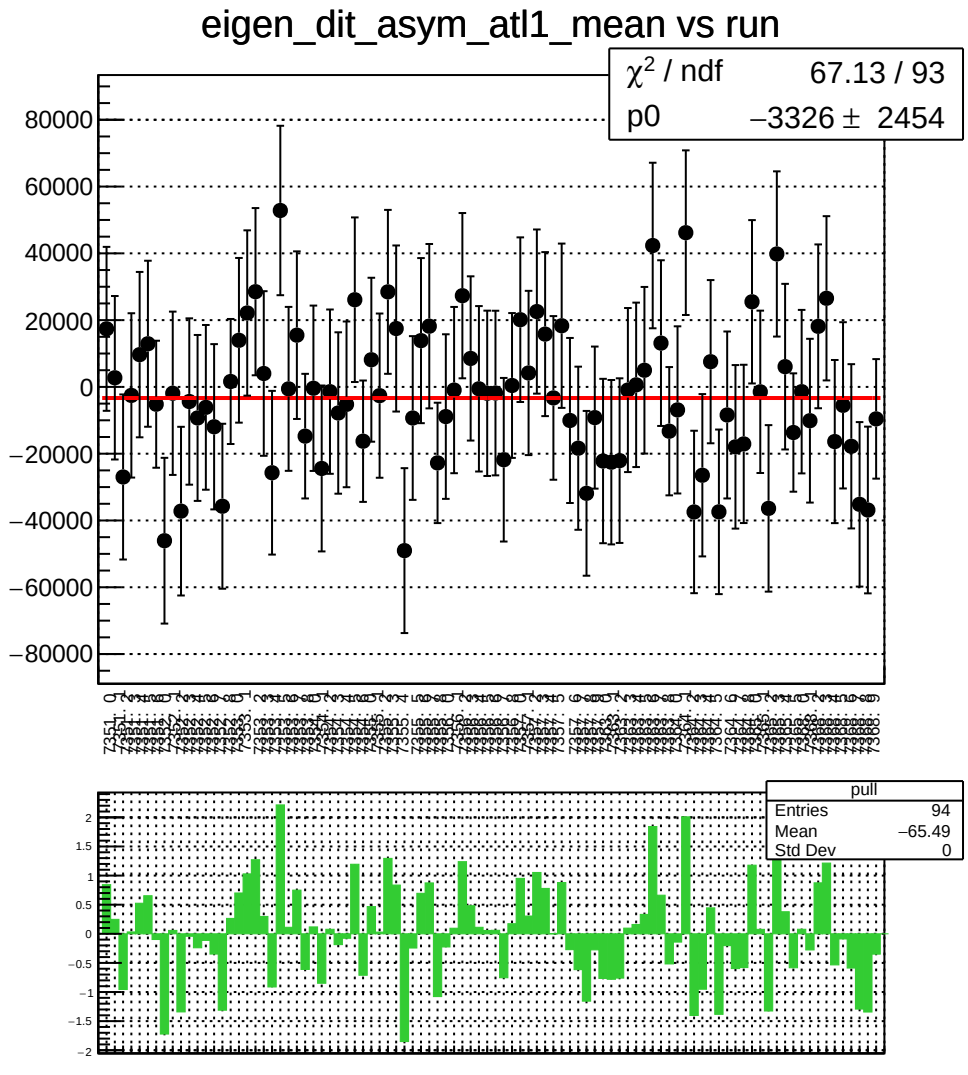

pull1D
Entries 94
Mean 0.015
Std Dev 0.845

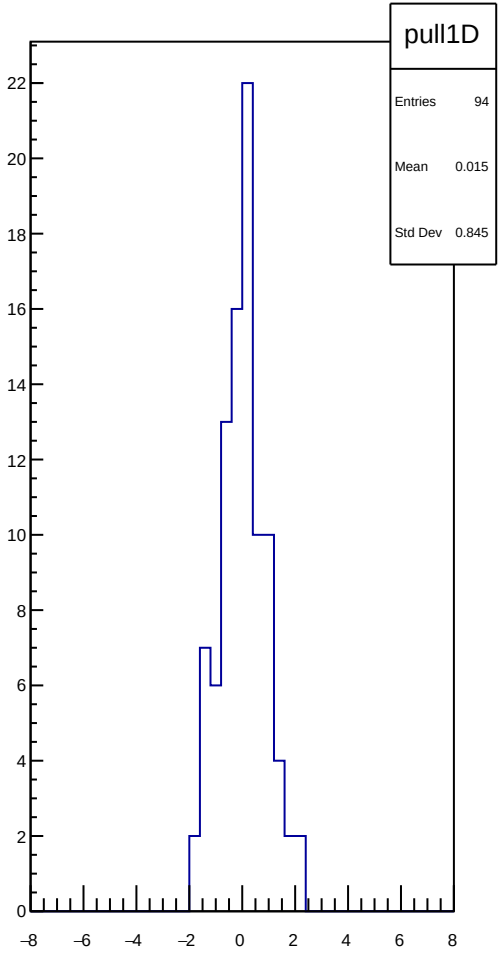

dit_asym_atl1_rms vs run
χ^2 / ndf 110.2 / 93
p0 2340 ± 1.735
2420
2400
2380
2360
2340
2320
2300
2280

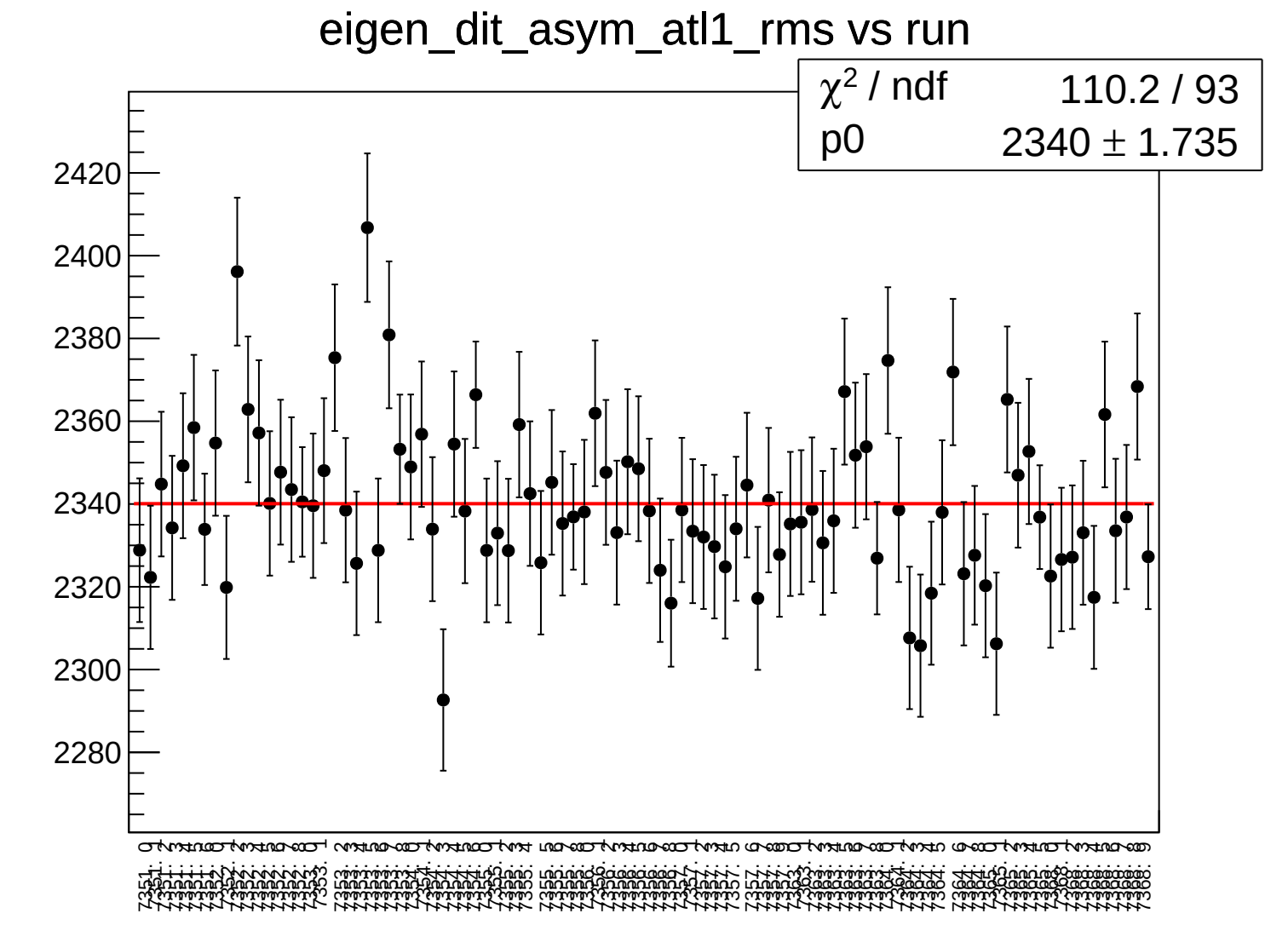

asym_atl1_dit_correction_mean vs run
χ² / ndf 131.1 / 93
p0 369.7 ± 686.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean 311.9
Std Dev 0
2
1
0
−1
−2
−3
−4

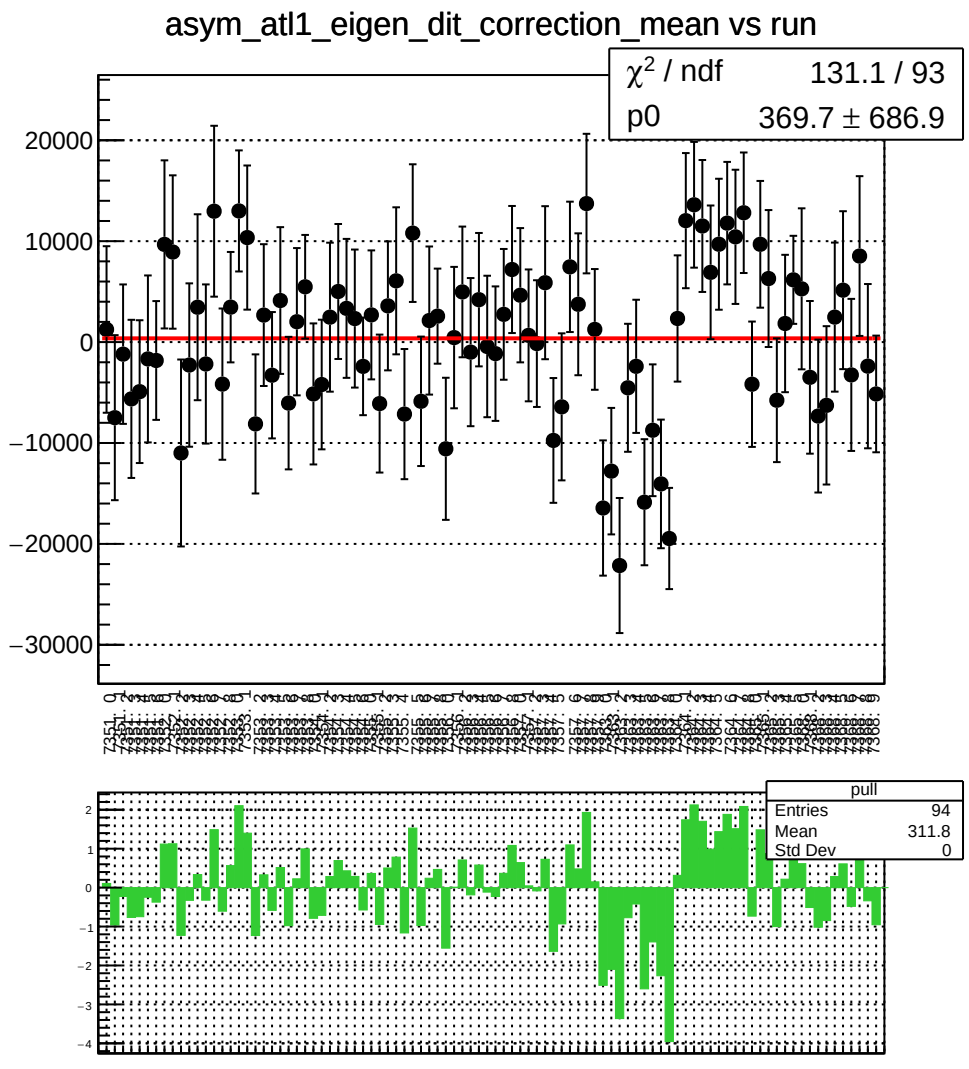

pull1D
Entries 94
Mean 0.002161
Std Dev 1.181
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

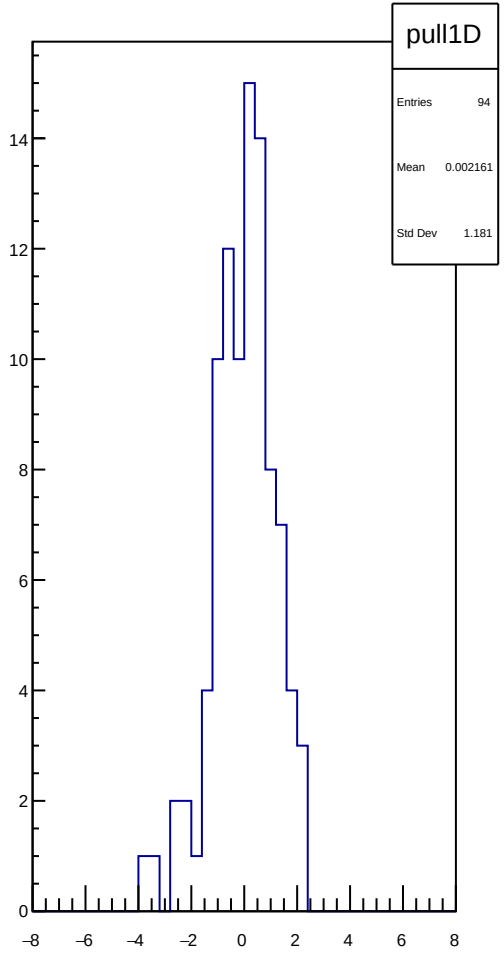

asym_atl1_dit_correction_rms vs run
χ² / ndf 1.53e+04 / 93
p0 652.3 ± 0.4857
900
850
800
750
700
650
600
550

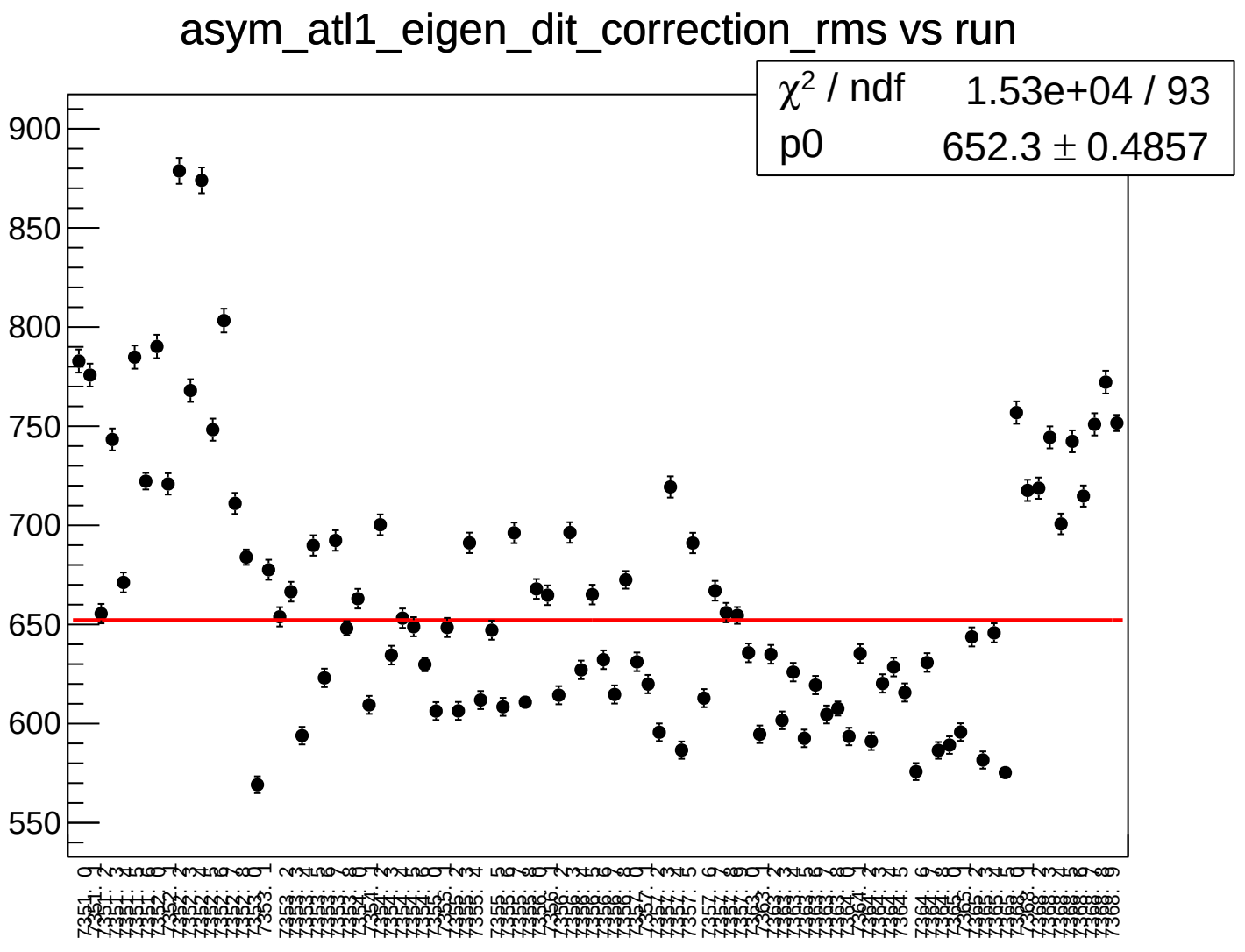

eigen_dit_asym_atl1_mean vs run
χ² / ndf 67.13 / 93
p0 −3326 ± 2454
pull
Entries 94
Mean −65.49
Std Dev 0

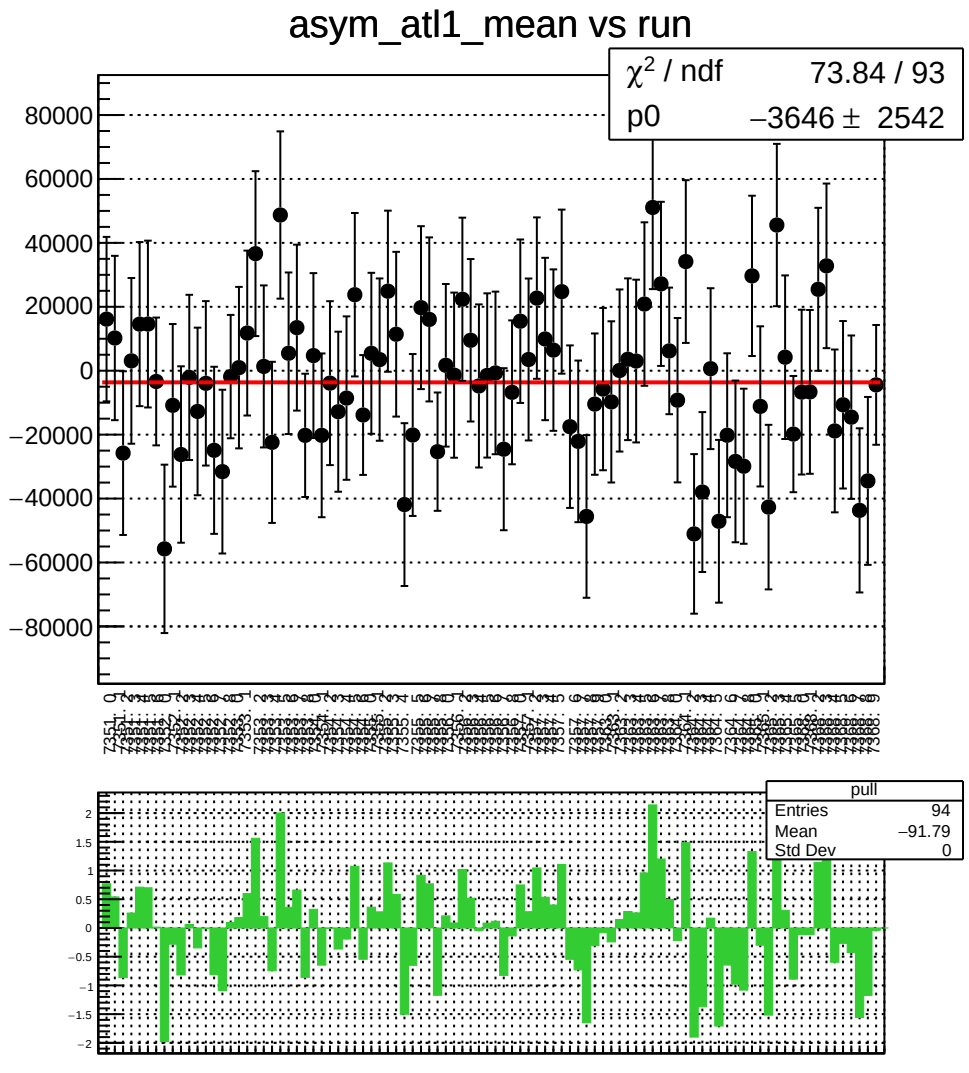

pull1D
Entries 94
Mean 0.015
Std Dev 0.845

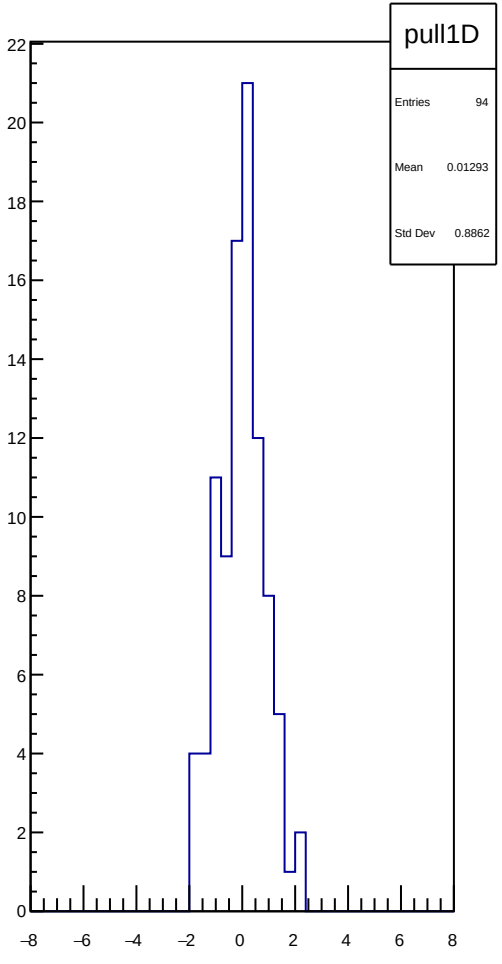

eigen_dit_asym_atl1_rms vs run
χ^2 / ndf 110.2 / 93
p0 2340 ± 1.735
2420
2400
2380
2360
2340
2320
2300
2280

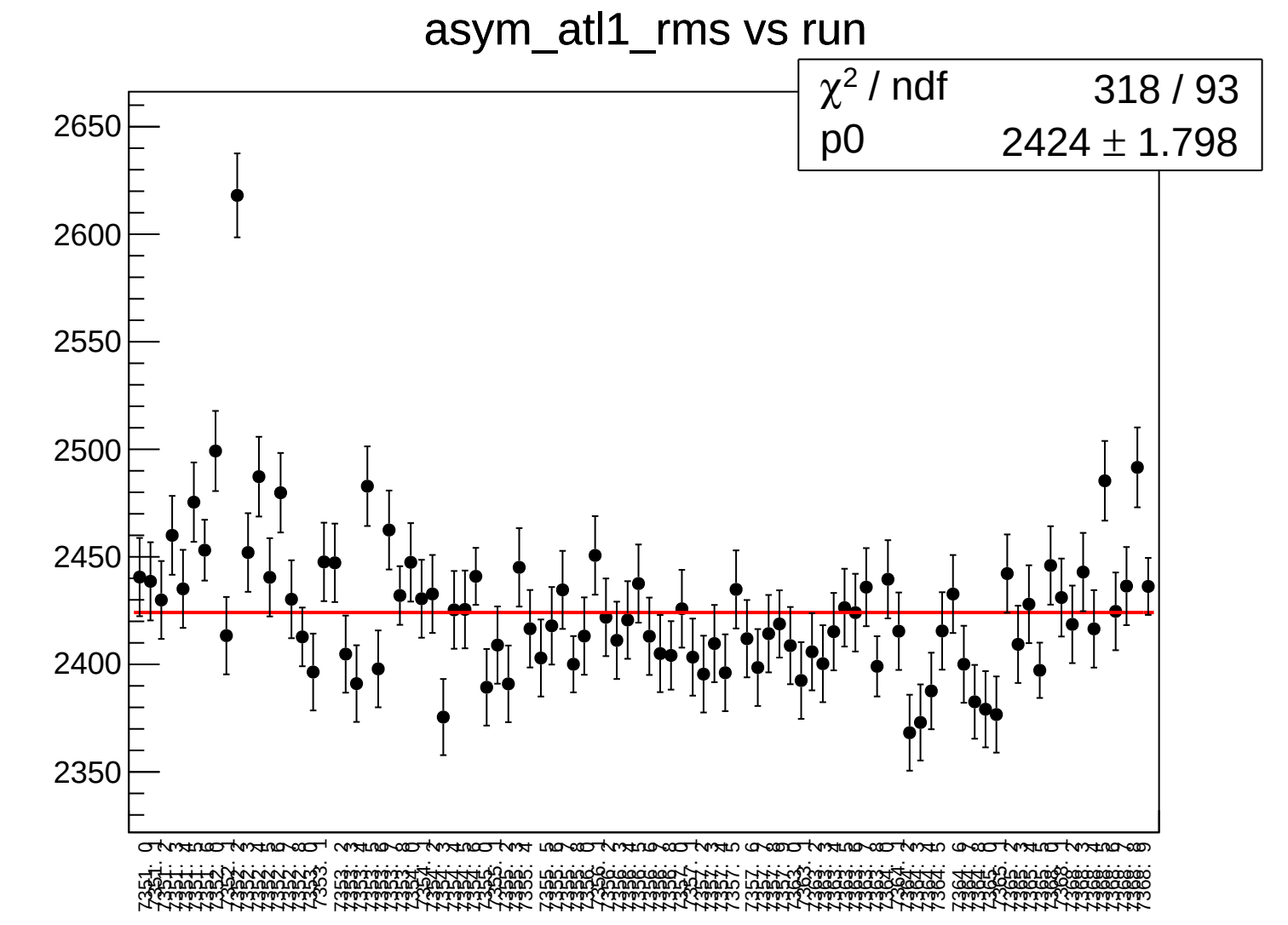

asym_atl1_eigen_dit_correction_mean vs run
χ² / ndf 131.1 / 93
p0 369.7 ± 686.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean 311.8
Std Dev 0
2
1
0
−1
−2
−3
−4

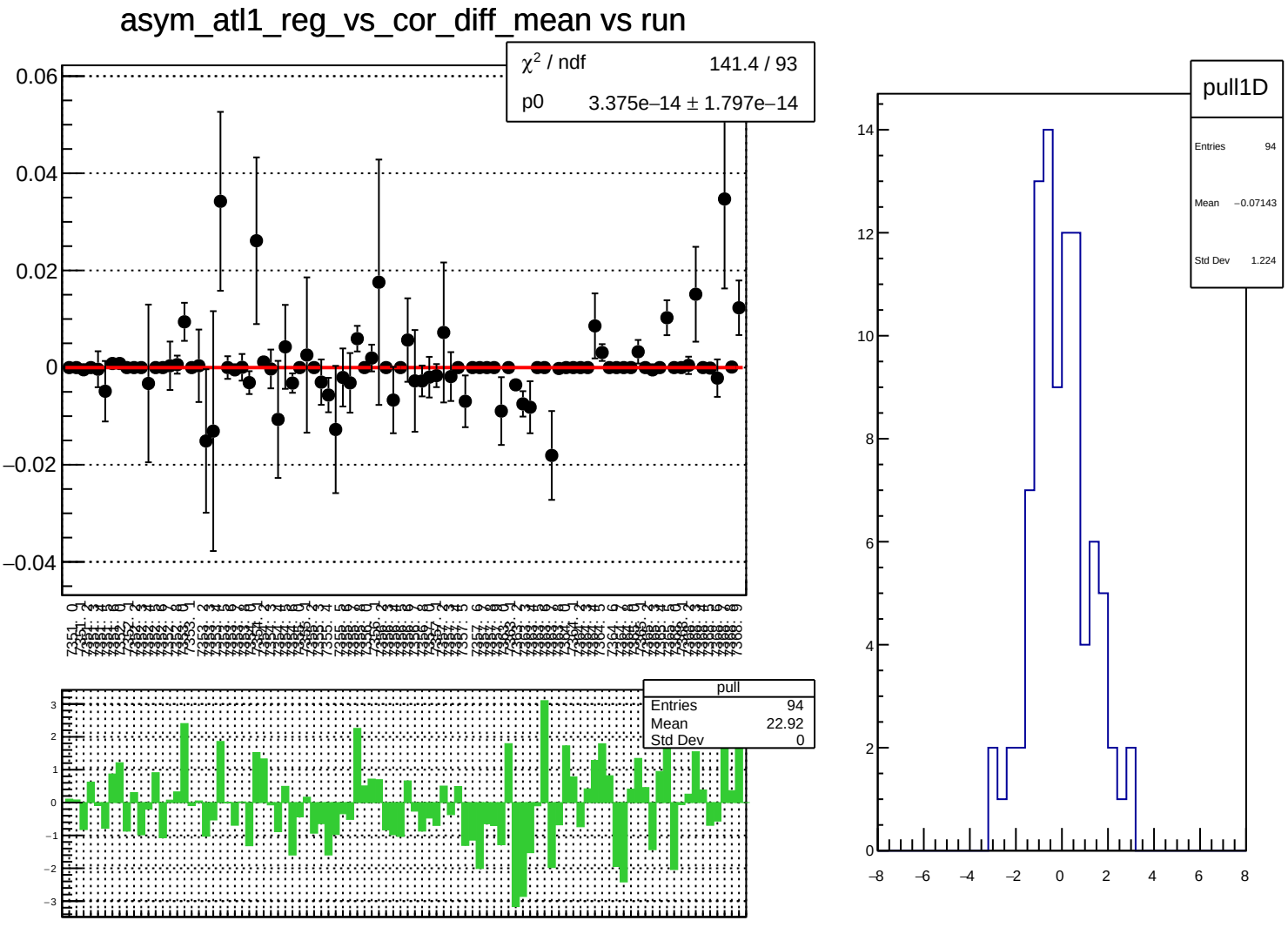

pull1D
Entries 94
Mean 0.002161
Std Dev 1.181
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

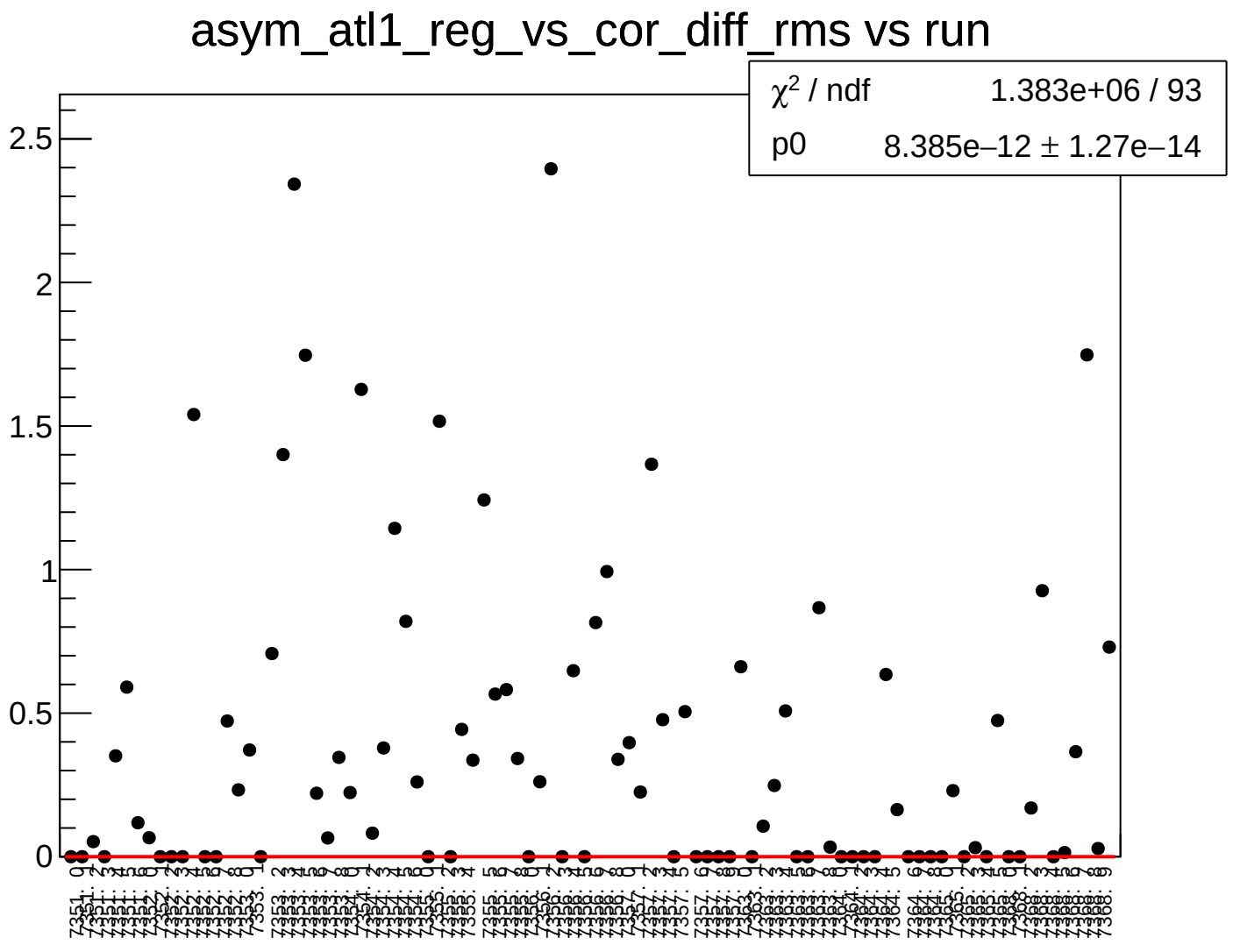

asym_atl1_eigen_dit_correction_rms vs run
χ² / ndf 1.53e+04 / 93
p0 652.3 ± 0.4857
900
850
800
750
700
650
600
550

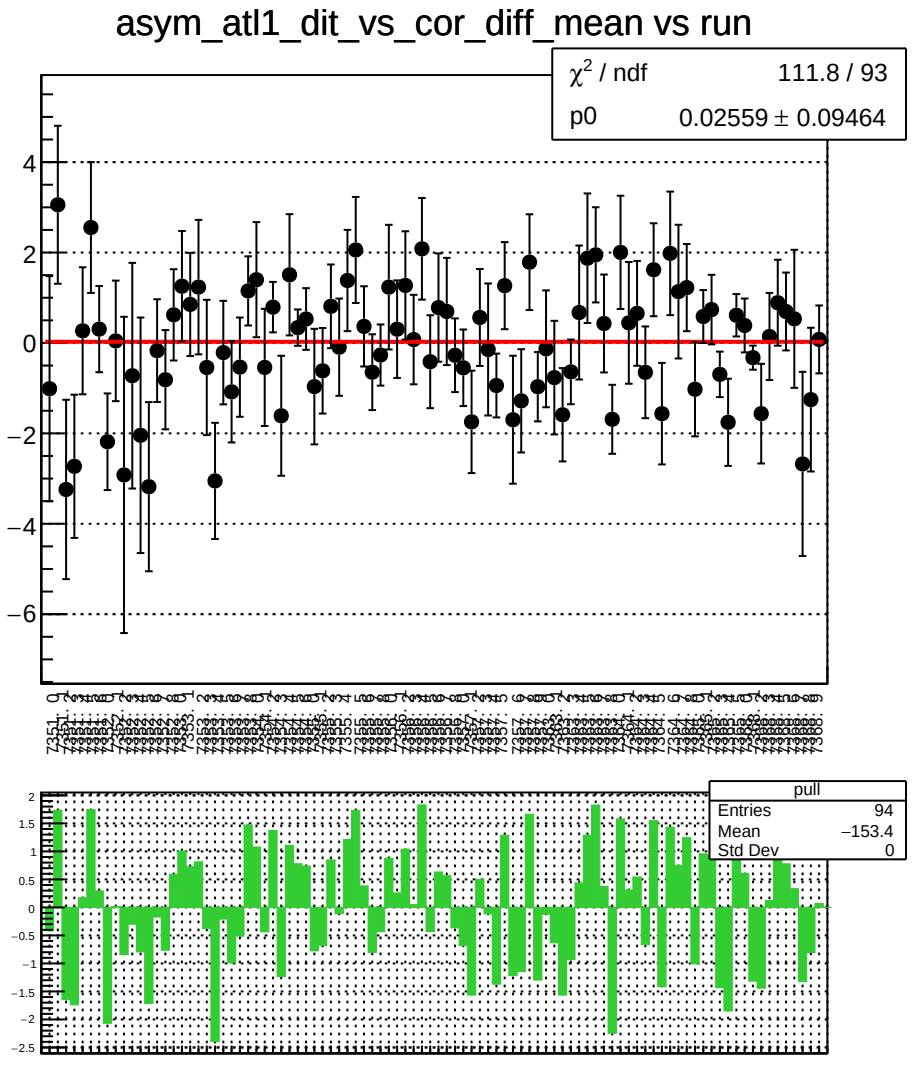

asym_atl1_mean vs run
χ² / ndf 73.84 / 93
p0 −3646 ± 2542
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean −91.79
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

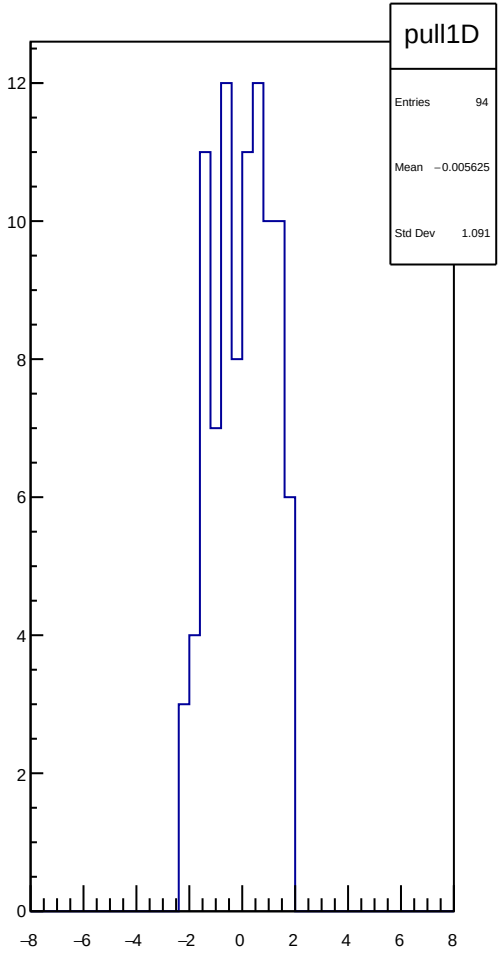

pull1D
Entries 94
Mean 0.01293
Std Dev 0.8862
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

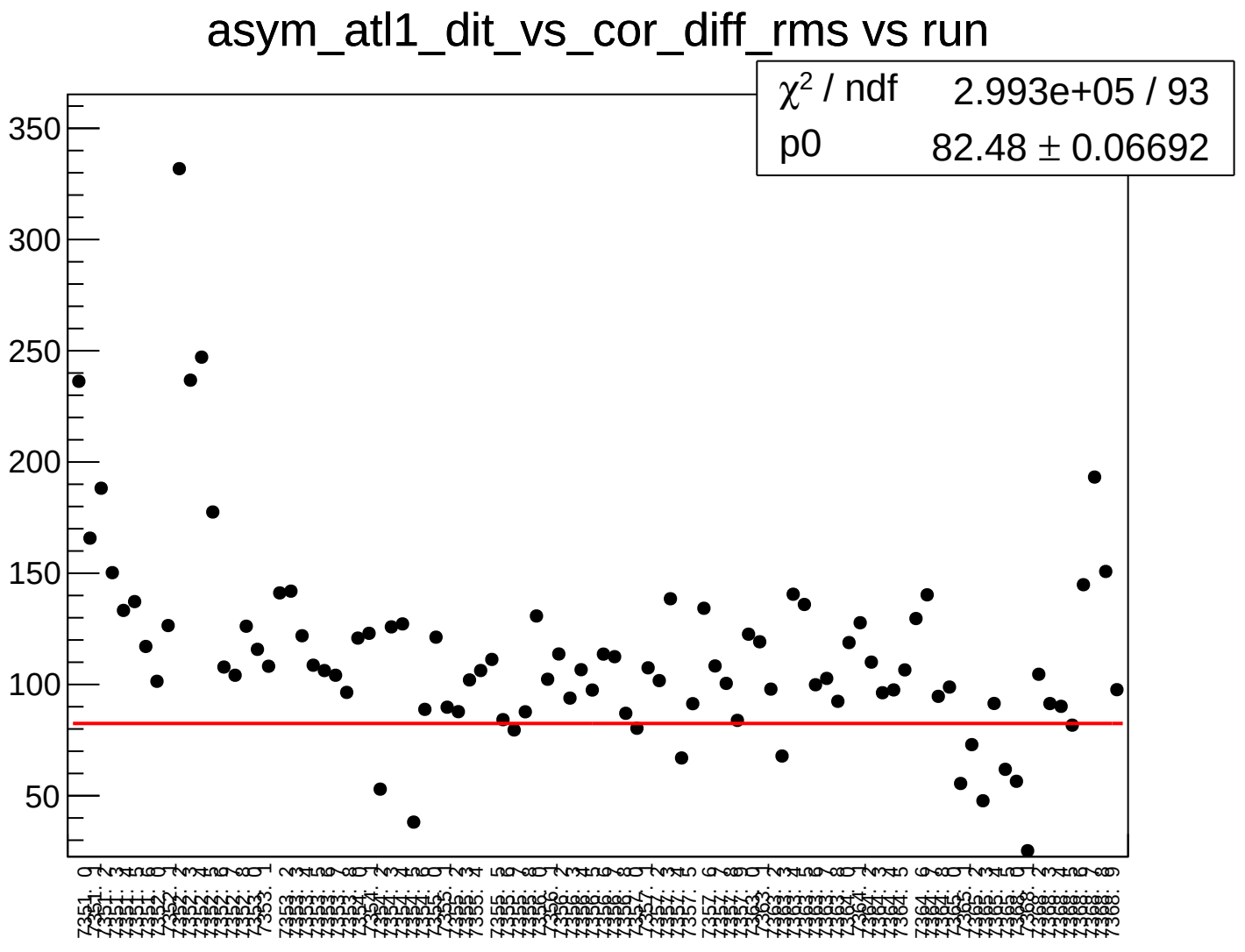

asym_atl1_rms vs run
χ^2 / ndf 318 / 93
p0 2424 ± 1.798
2650
2600
2550
2500
2450
2400
2350

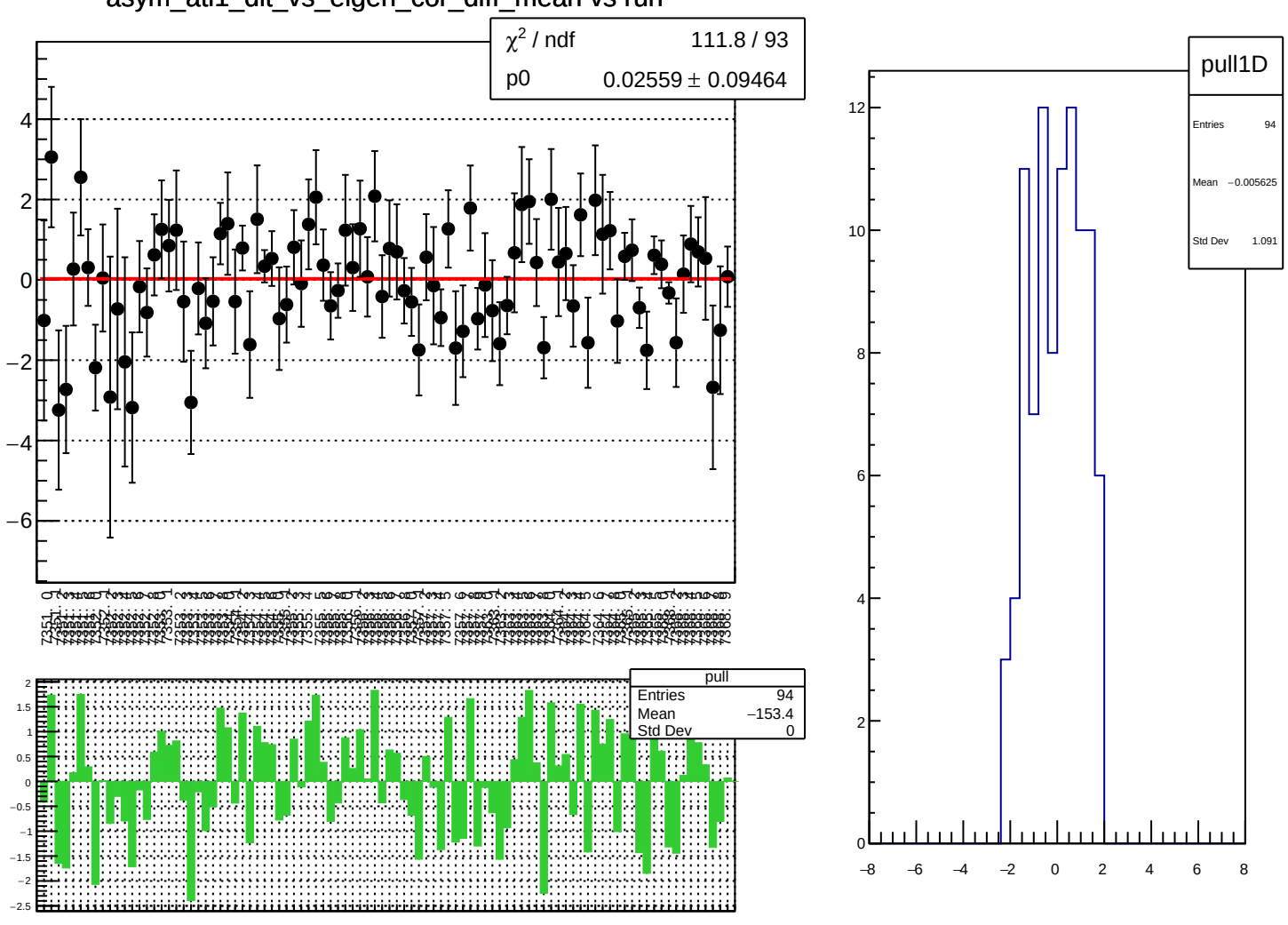

asym_atl1_reg_vs_cor_diff_mean vs run
χ² / ndf 141.4 / 93
p0 3.375e−14 ± 1.797e−14
0.06
0.04
0.02
0
−0.02
−0.04
pull
Entries 94
Mean 22.92
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.07143
Std Dev 1.224
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

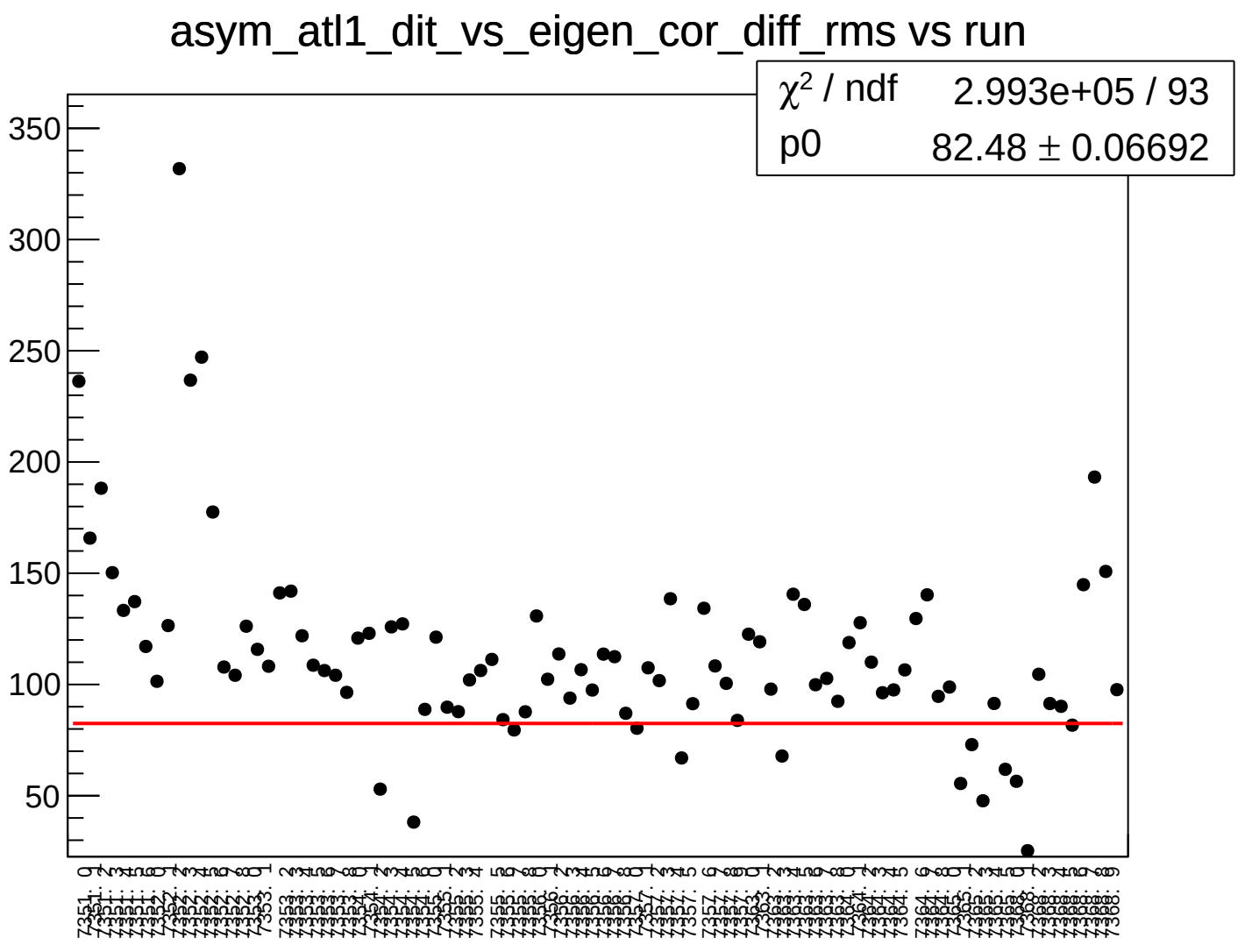

asym_atl1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.383e+06 / 93
p0 8.385e−12 ± 1.27e−14
2.5
2
1.5
1
0.5
0

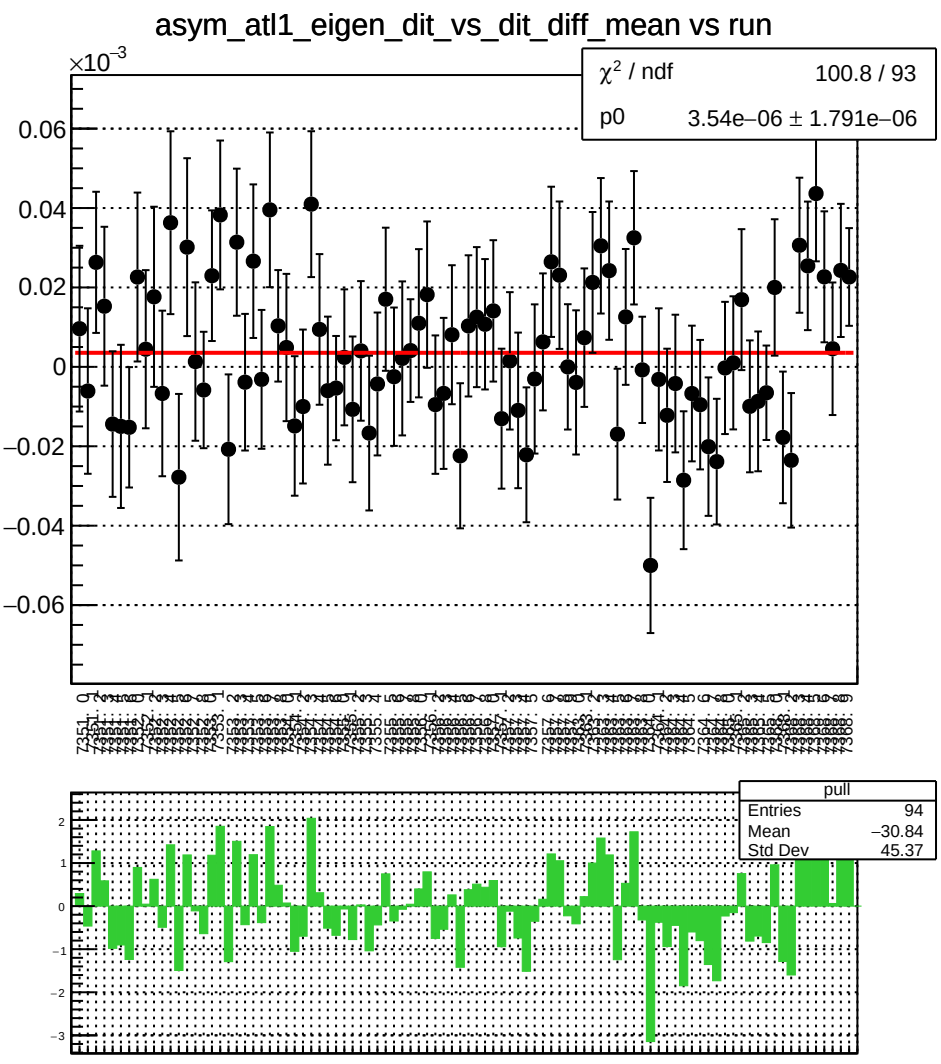

asym_atl1_dit_vs_cor_diff_mean vs run
χ² / ndf 111.8 / 93
p0 0.02559 ± 0.09464
pull
Entries 94
Mean −153.4
Std Dev 0

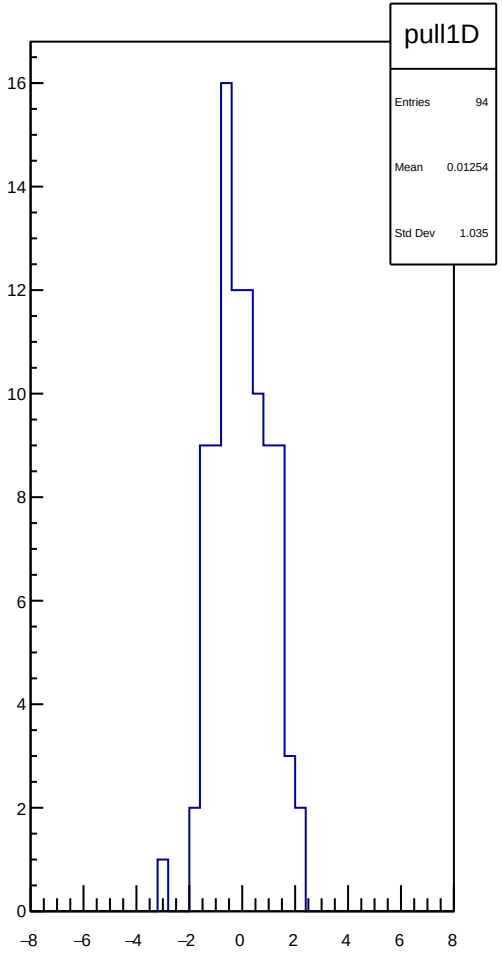

pull1D
Entries 94
Mean −0.005625
Std Dev 1.091

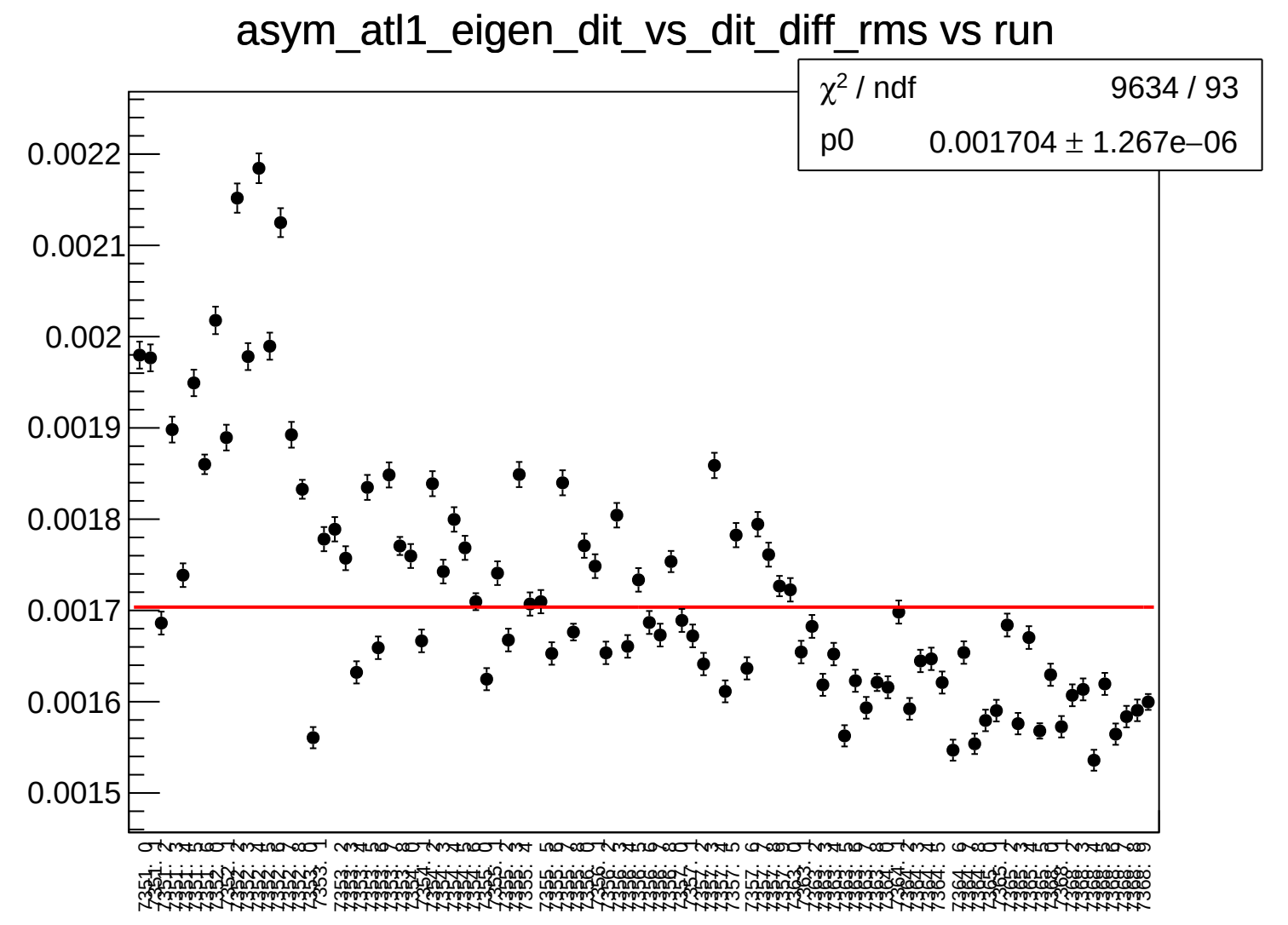

asym_atl1_dit_vs_cor_diff_rms vs run
χ² / ndf 2.993e+05 / 93
p0 82.48 ± 0.06692
350
300
250
200
150
100
50

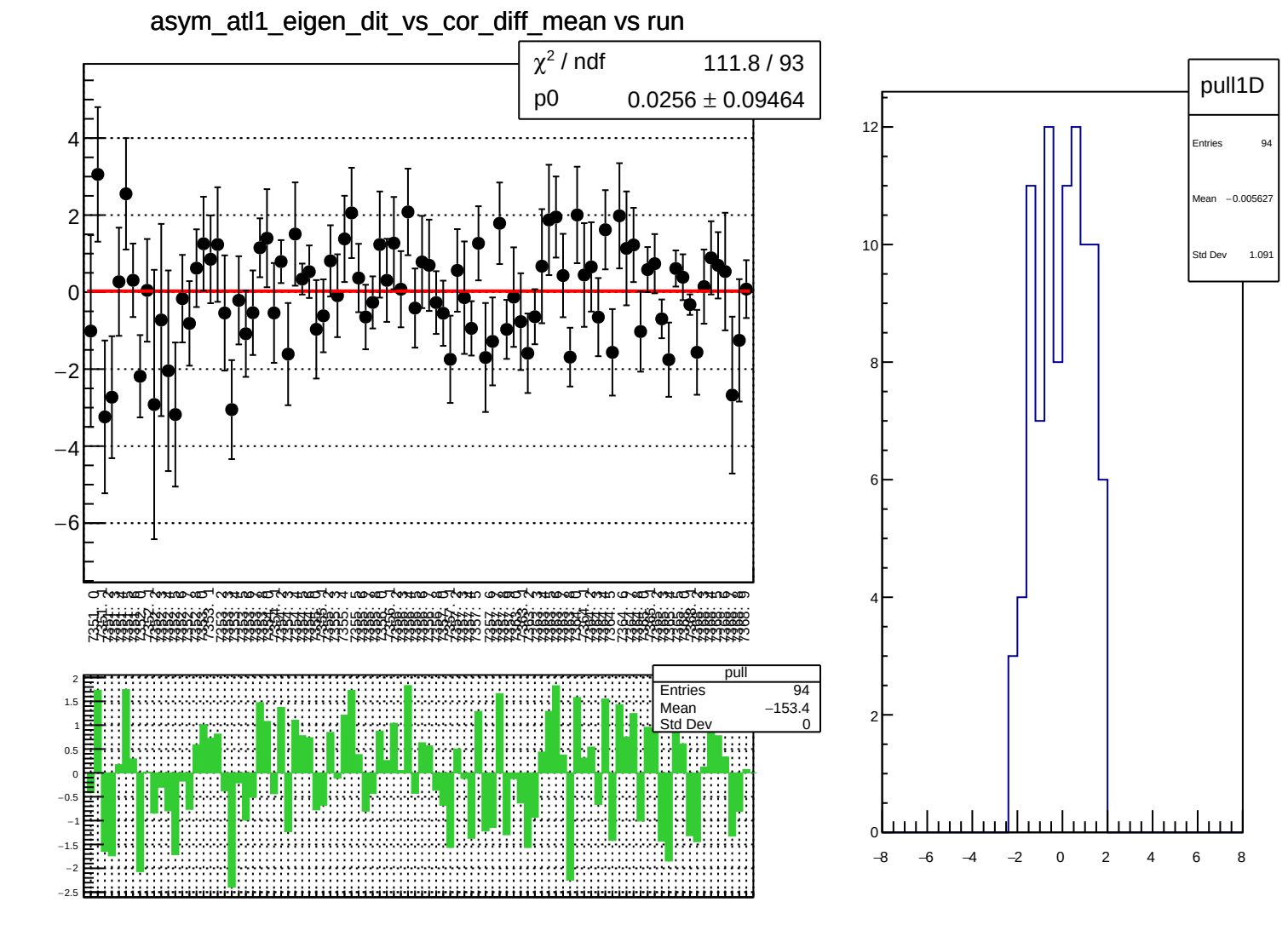

asym_atl1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 111.8 / 93
p0 0.02559 ± 0.09464
pull
Entries 94
Mean −153.4
Std Dev 0
pull1D
Entries 94
Mean −0.005625
Std Dev 1.091

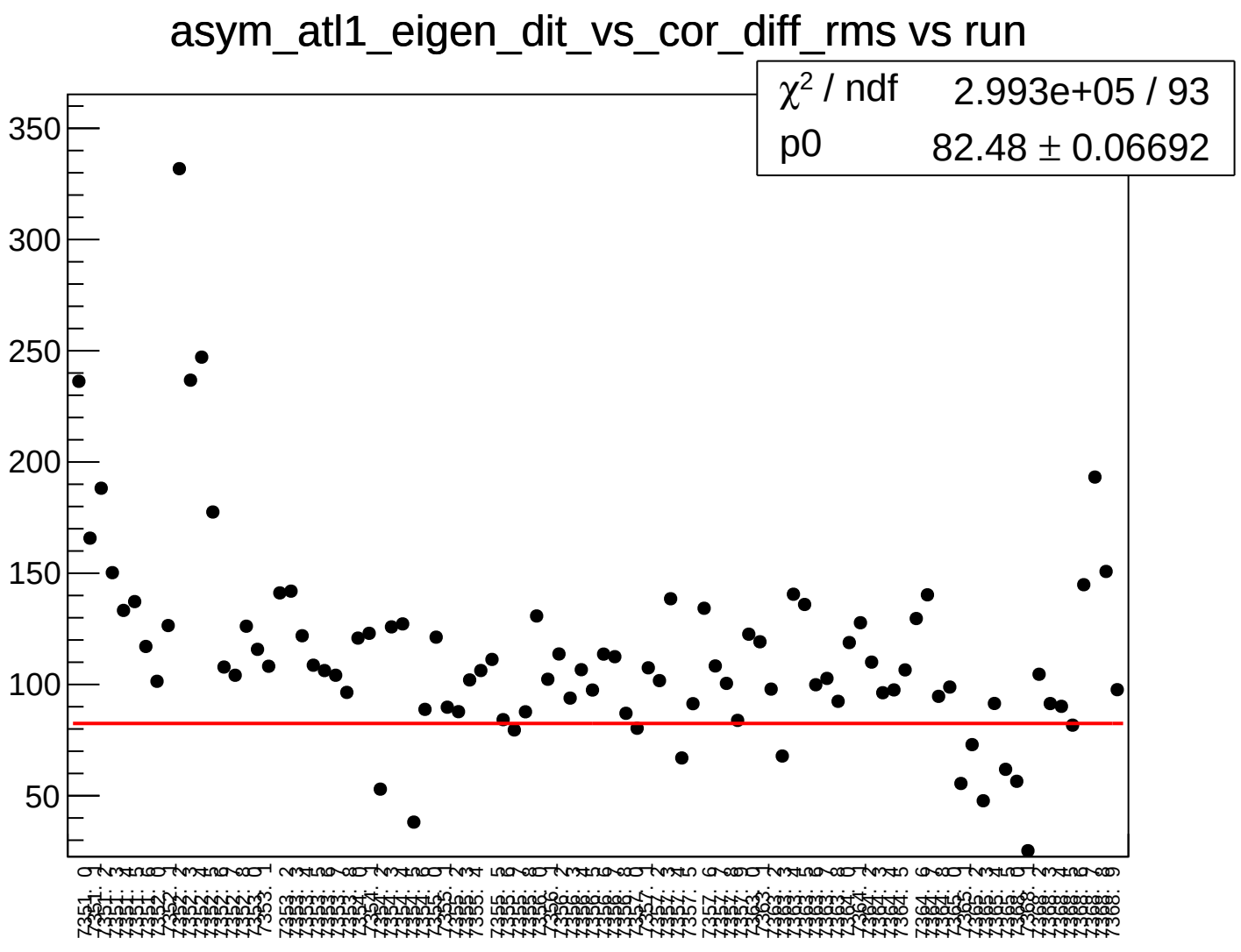

asym_atl1_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.993e+05 / 93
p0 82.48 ± 0.06692
350
300
250
200
150
100
50

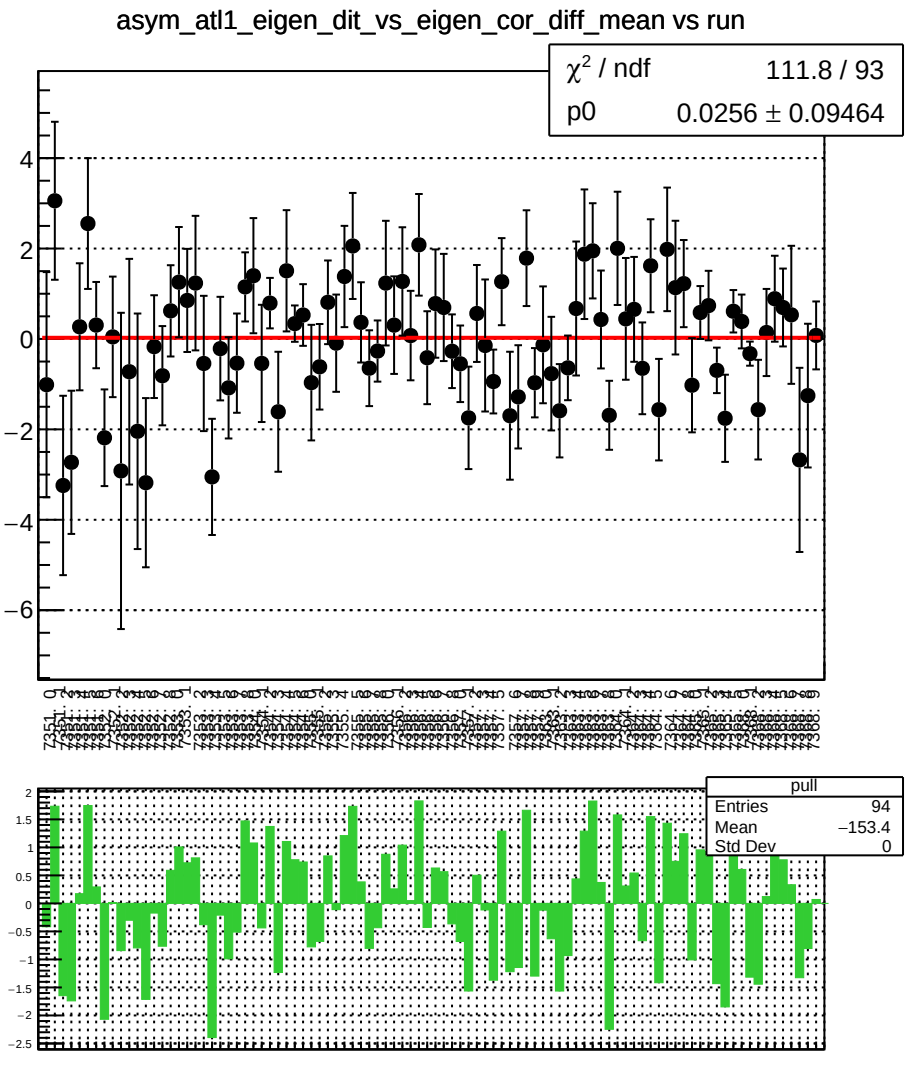

asym_atl1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 100.8 / 93
p0 3.54e−06 ± 1.791e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 94
Mean −30.84
Std Dev 45.37
2
1
0
−1
−2
−3

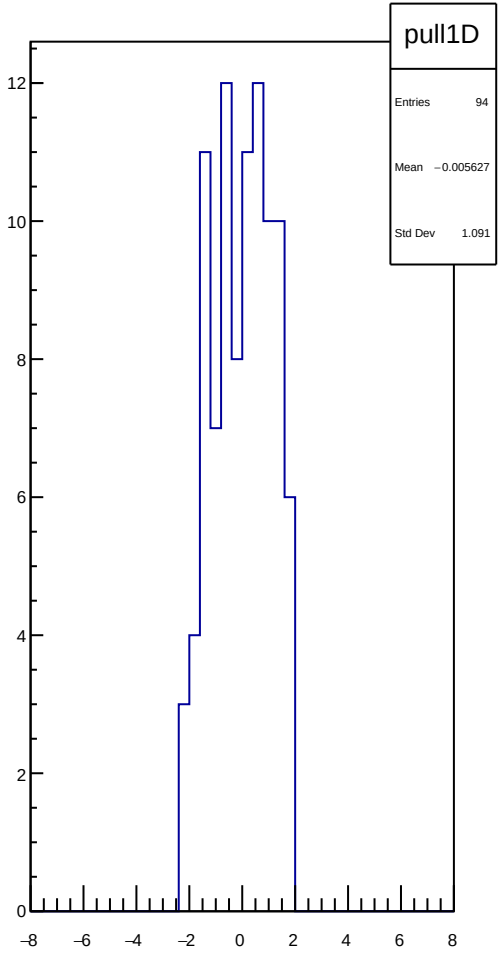

pull1D
Entries 94
Mean 0.01254
Std Dev 1.035
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

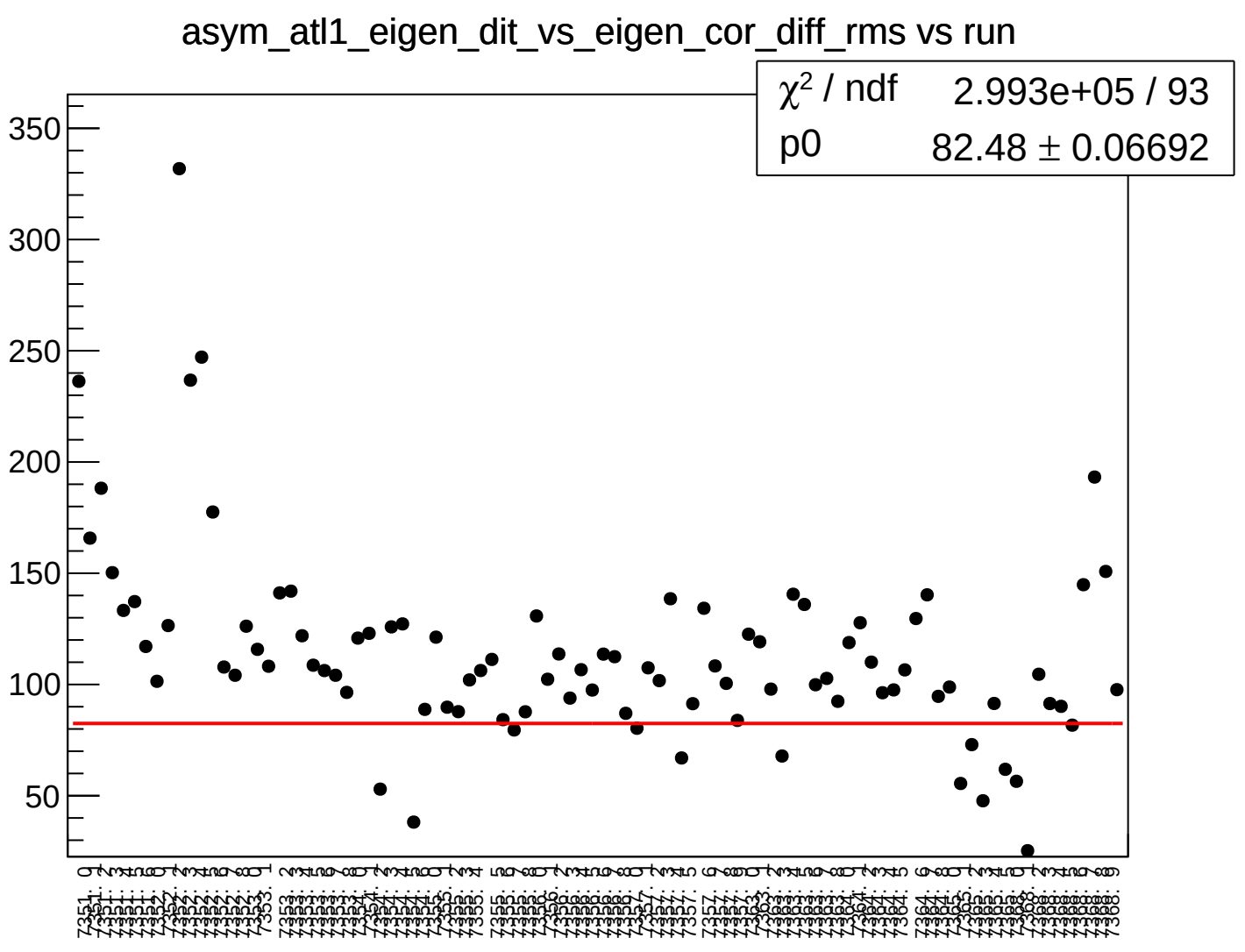

asym_atl1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9634 / 93
p0 0.001704 ± 1.267e−06
0.0022
0.0021
0.002
0.0019
0.0018
0.0017
0.0016
0.0015

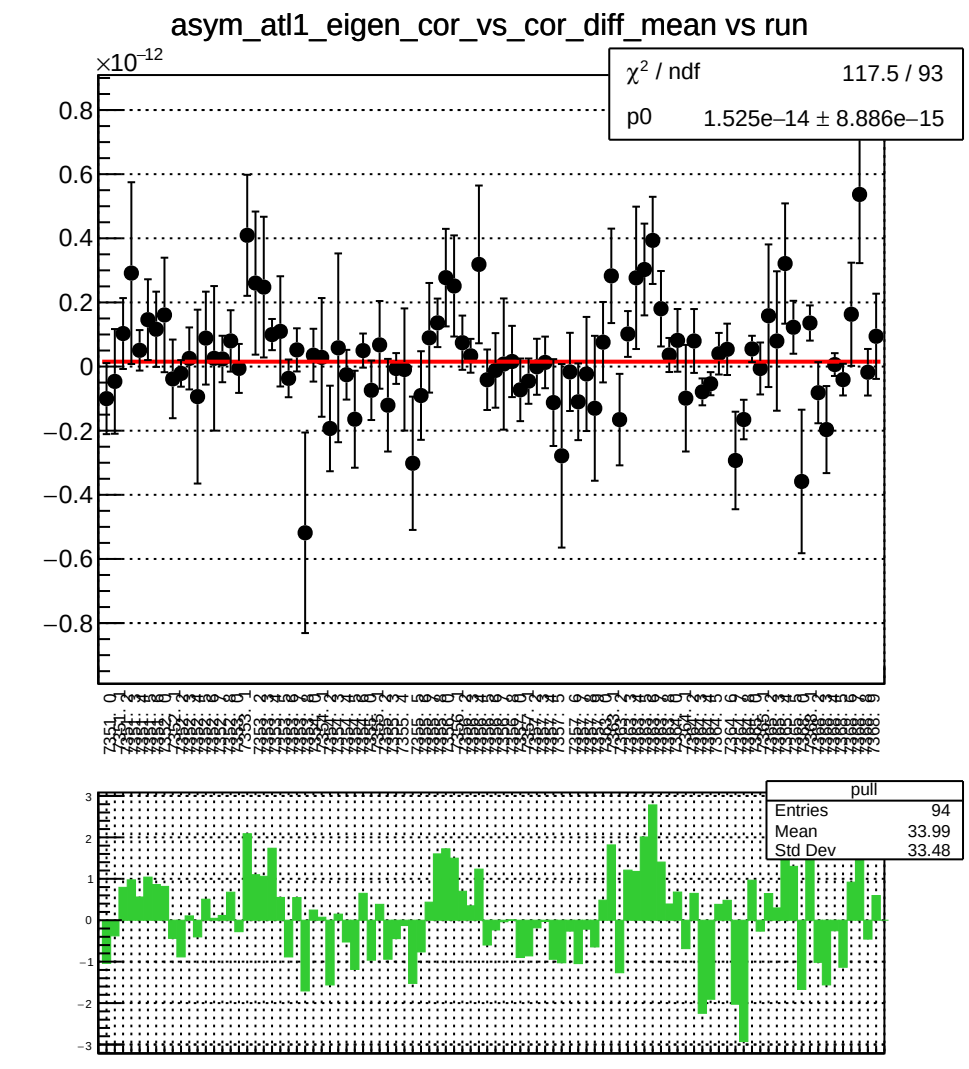

asym_atl1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 111.8 / 93
p0 0.0256 ± 0.09464
pull
Entries 94
Mean −153.4
Std Dev 0
pull1D
Entries 94
Mean −0.005627
Std Dev 1.091

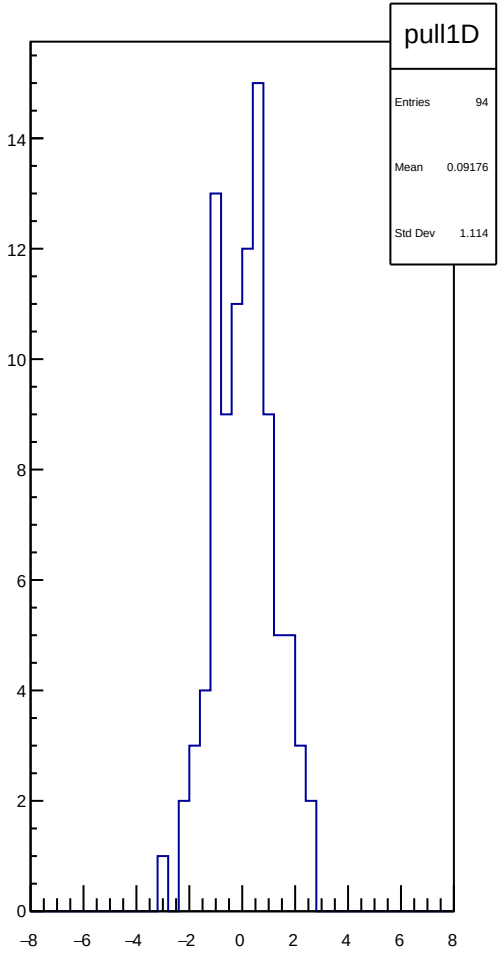

asym_atl1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.993e+05 / 93
p0 82.48 ± 0.06692
350
300
250
200
150
100
50

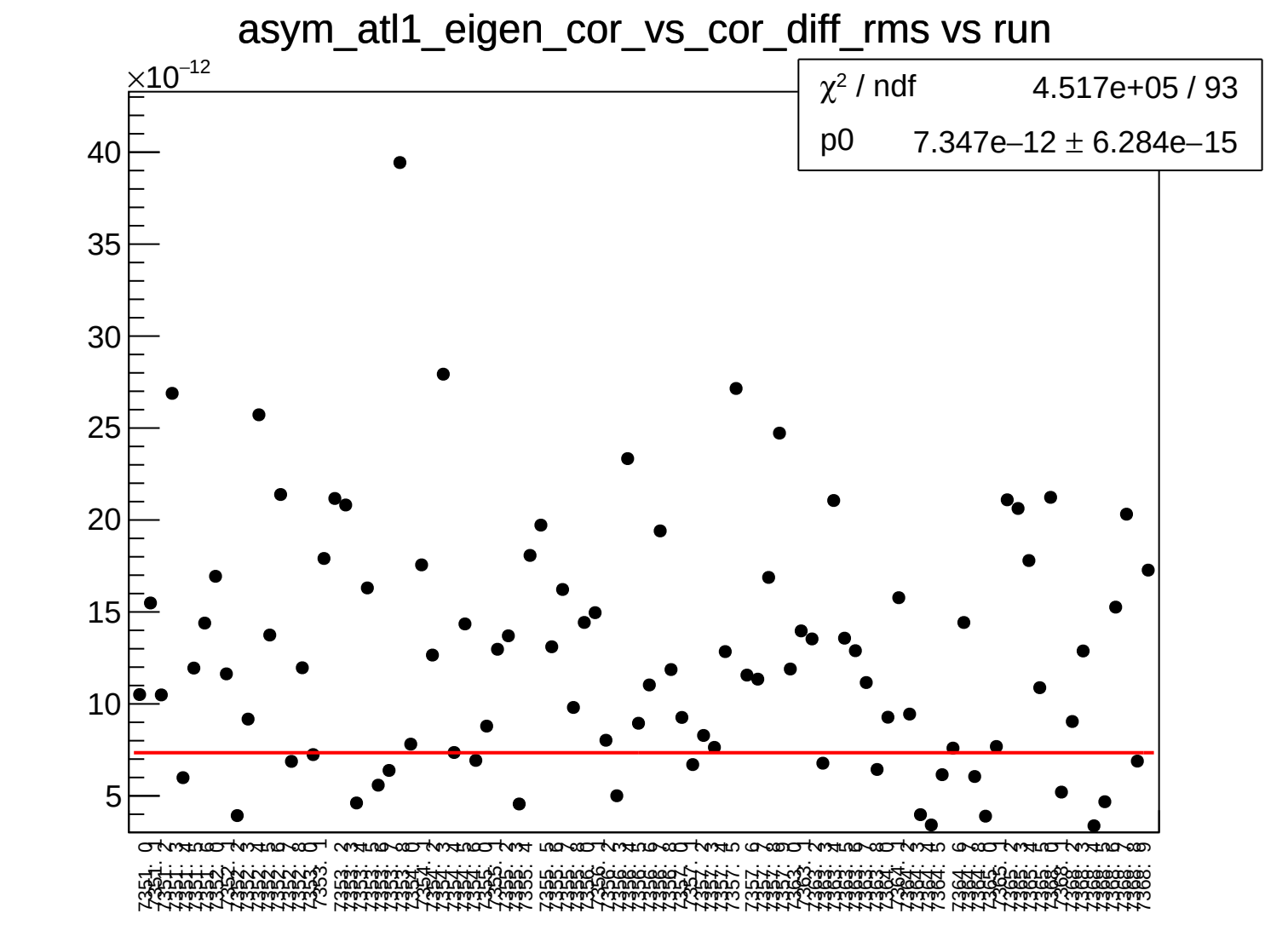

asym_atl1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 111.8 / 93
p0 0.0256 ± 0.09464
pull
Entries 94
Mean −153.4
Std Dev 0

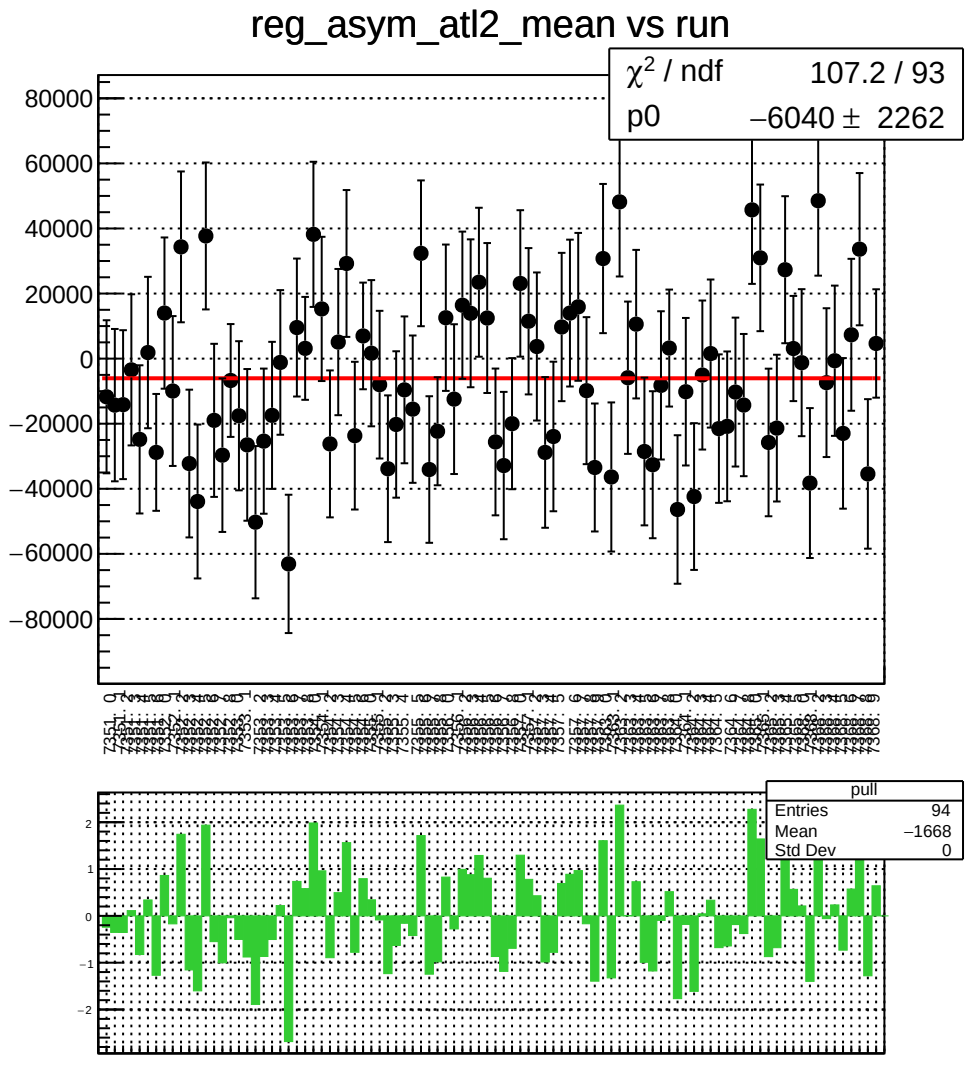

pull1D
Entries 94
Mean −0.005627
Std Dev 1.091

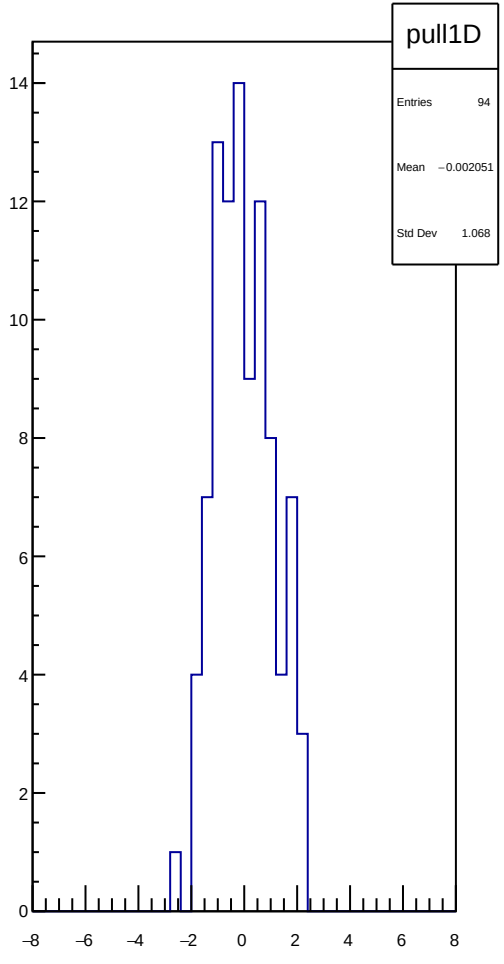

asym_atl1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.993e+05 / 93
p0 82.48 ± 0.06692
350
300
250
200
150
100
50

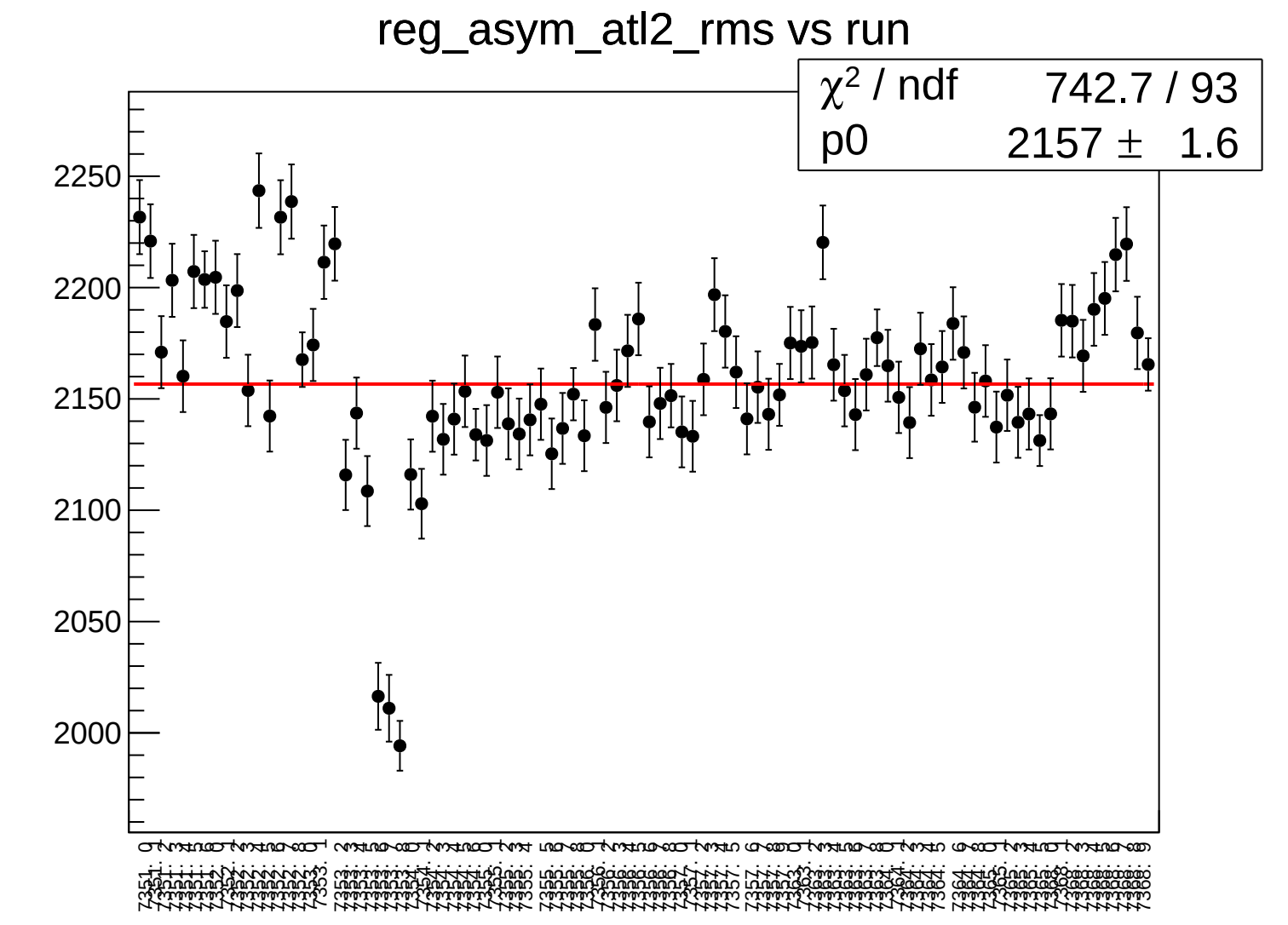

asym_atl1_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 117.5 / 93
p0 1.525e−14 ± 8.886e−15
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull
Entries 94
Mean 33.99
Std Dev 33.48
3
2
1
0
−1
−2
−3

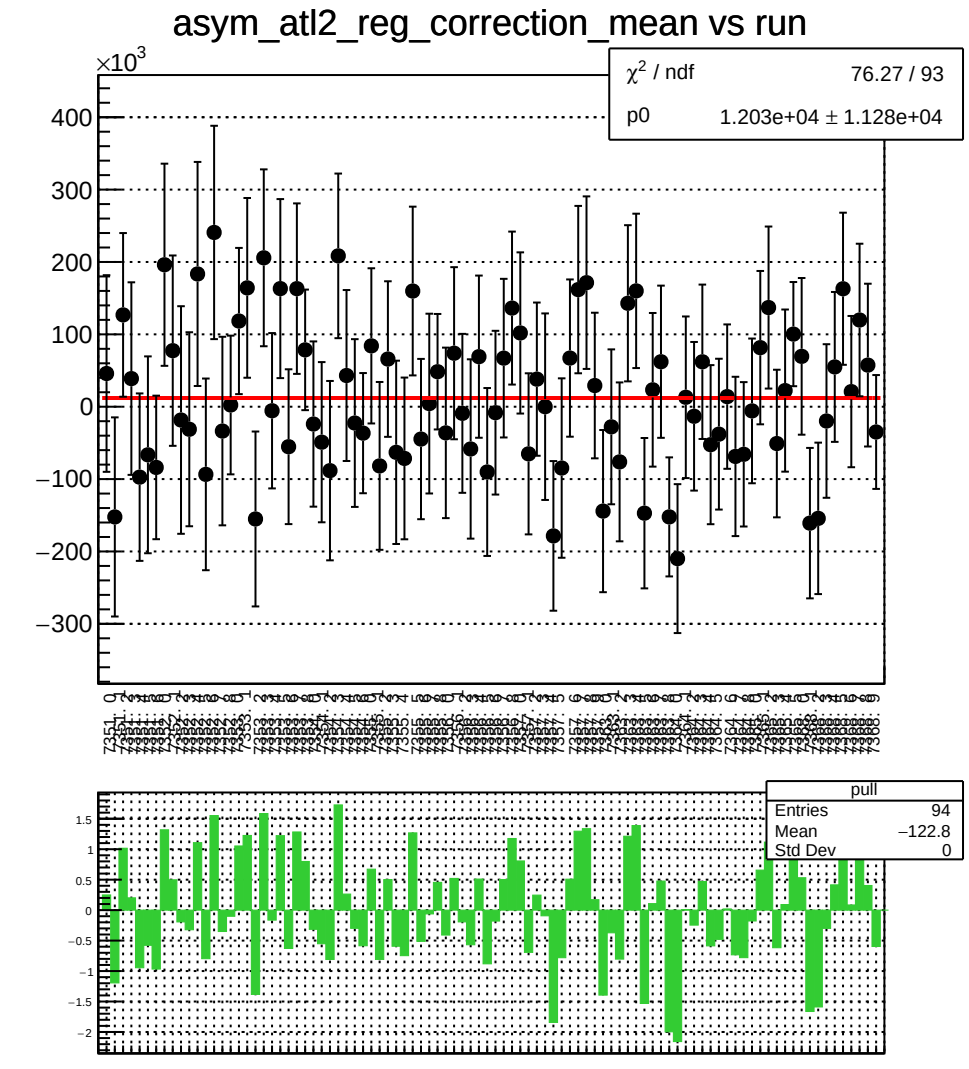

pull1D
Entries 94
Mean 0.09176
Std Dev 1.114
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

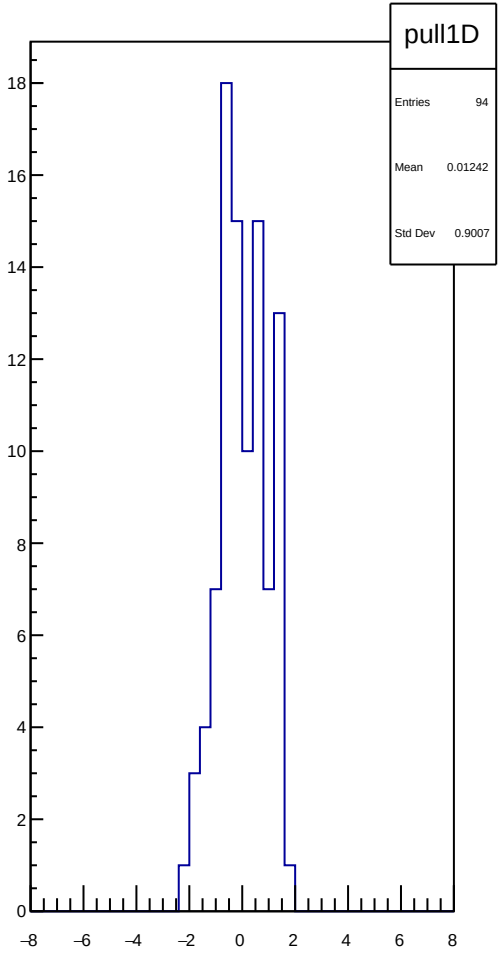

asym_atl1_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
40
35
30
25
20
15
10
5
χ² / ndf 4.517e+05 / 93
p0 7.347e−12 ± 6.284e−15

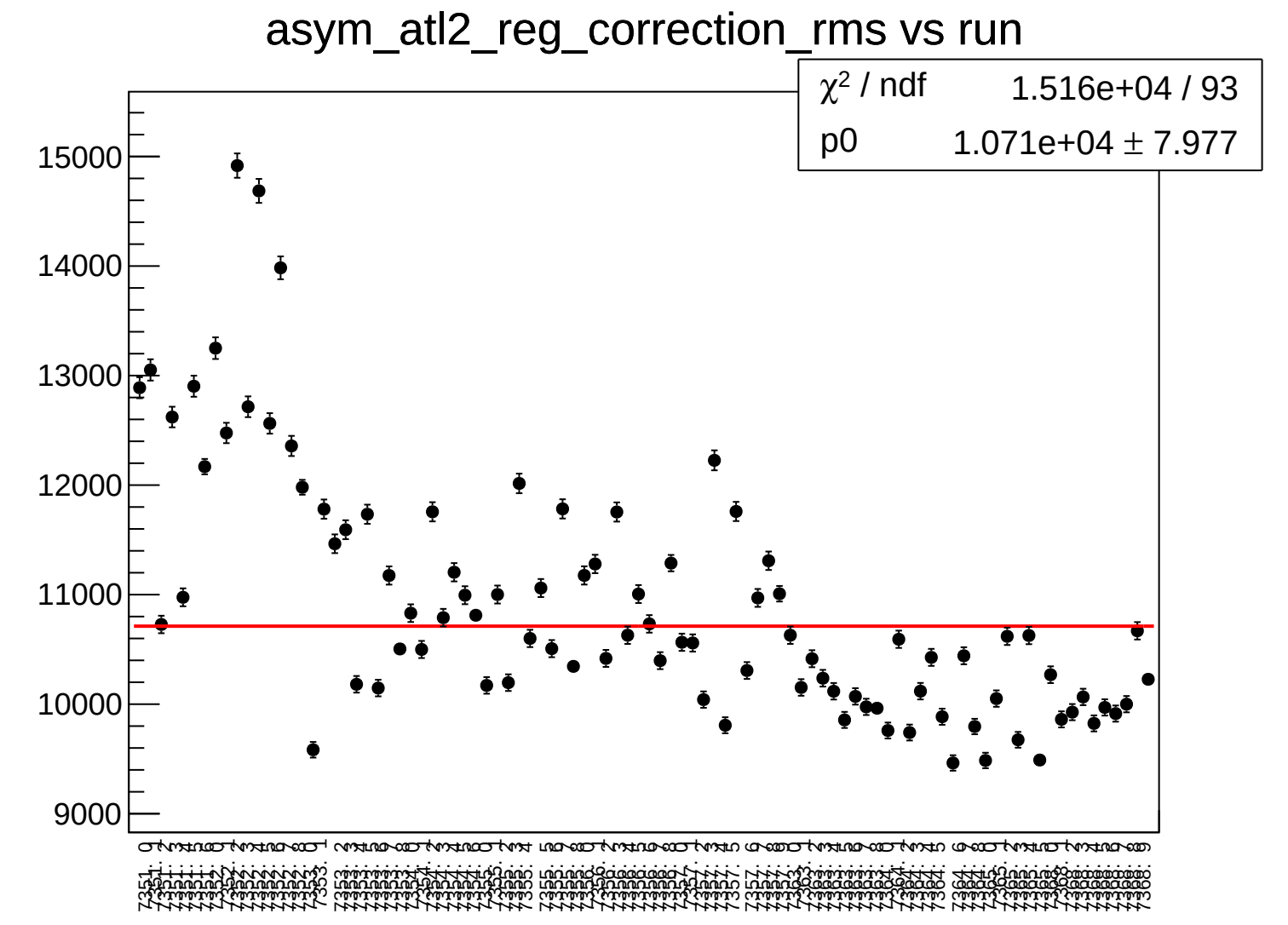

reg_asym_atl2_mean vs run
χ² / ndf 107.2 / 93
p0 −6040 ± 2262
pull
Entries 94
Mean −1668
Std Dev 0

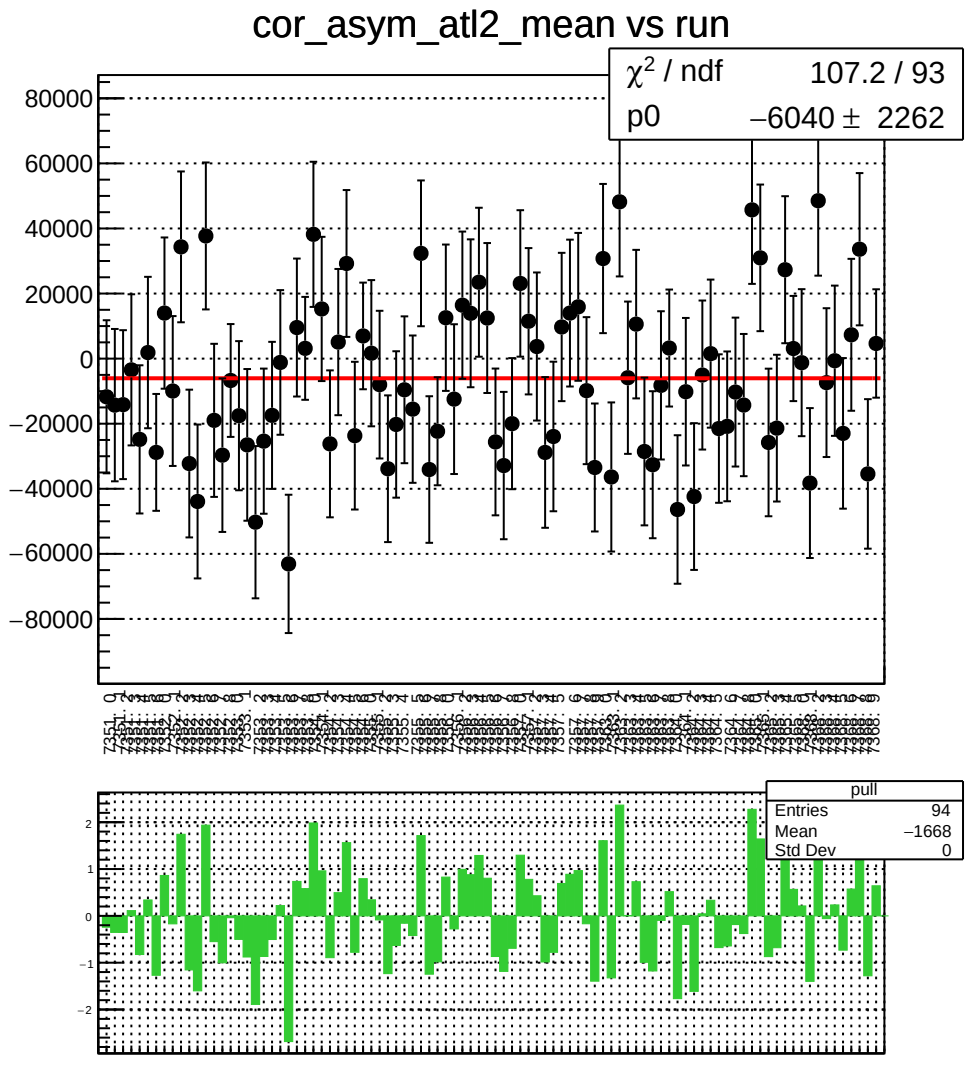

pull1D
Entries 94
Mean −0.002051
Std Dev 1.068

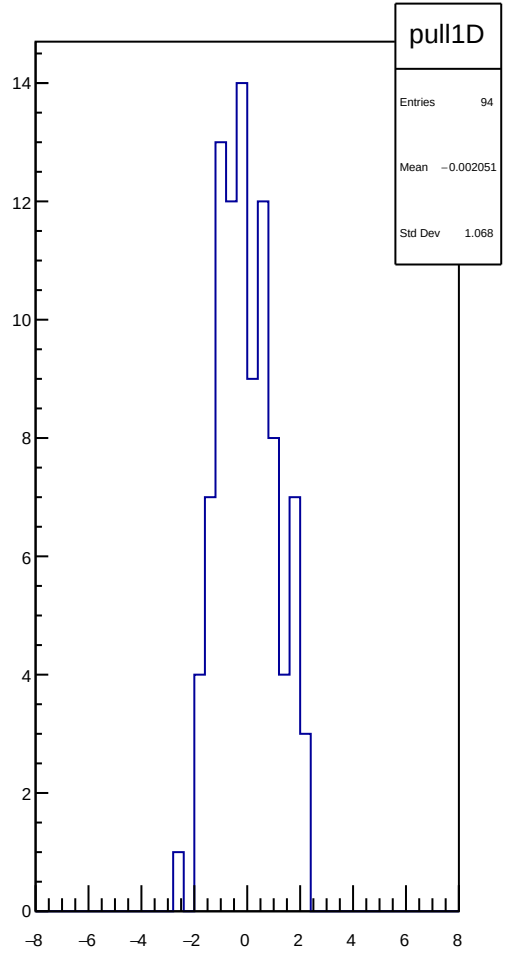

reg_asym_atl2_rms vs run
χ² / ndf 742.7 / 93
p0 2157 ± 1.6
2250
2200
2150
2100
2050
2000

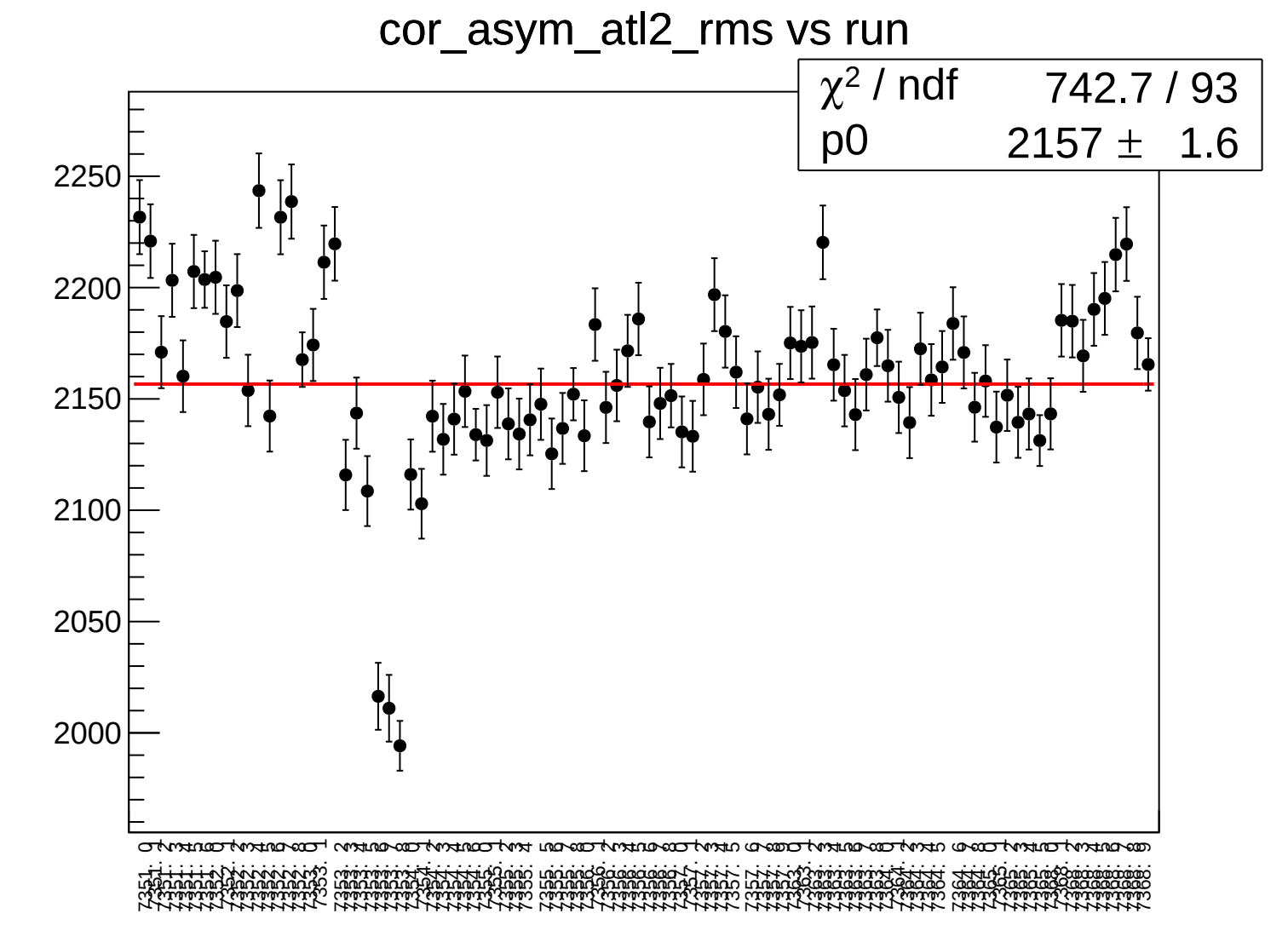

asym_atl2_reg_correction_mean vs run
×10^3
χ² / ndf 76.27 / 93
p0 1.203e+04 ± 1.128e+04
400
300
200
100
0
−100
−200
−300
pull
Entries 94
Mean −122.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

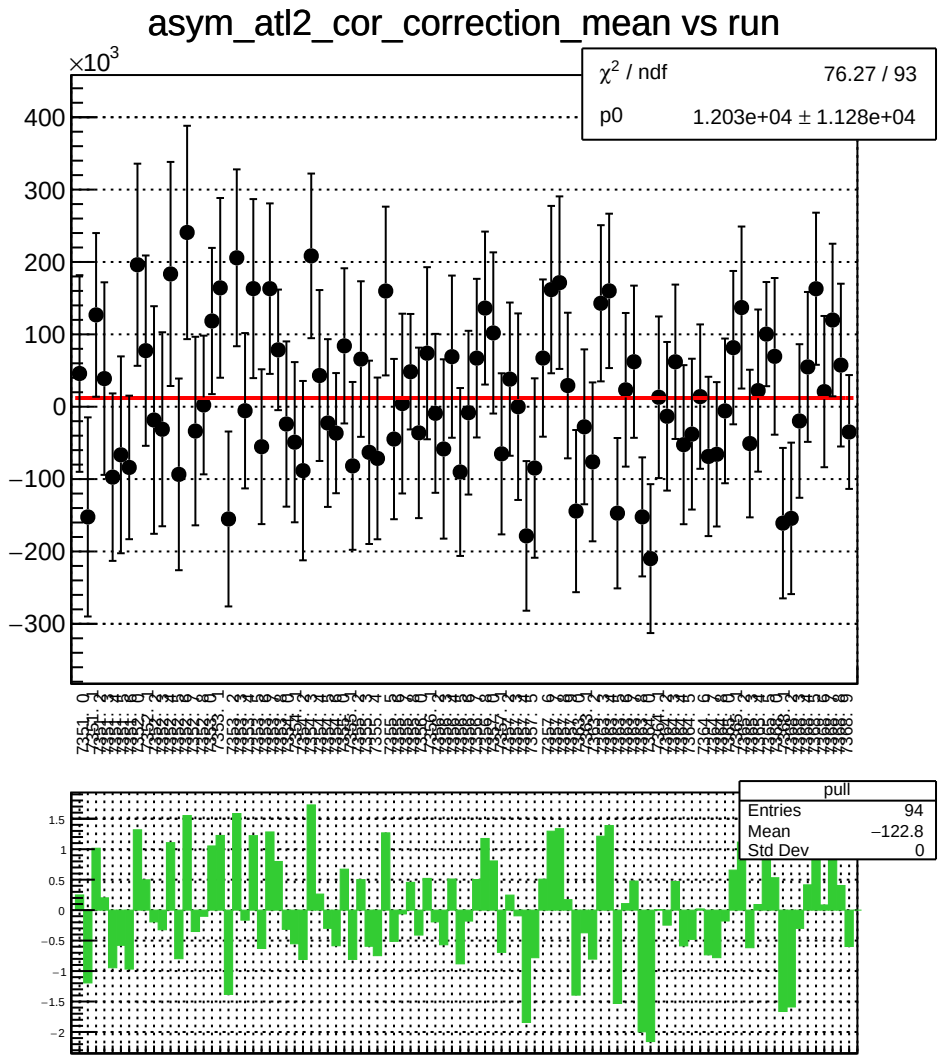

pull1D
Entries 94
Mean 0.01242
Std Dev 0.9007
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

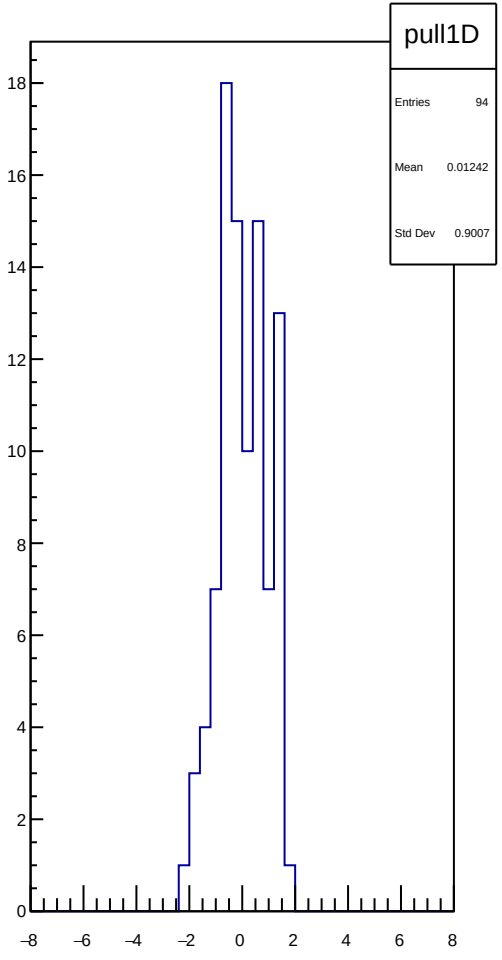

asym_atl2_reg_correction_rms vs run
χ² / ndf 1.516e+04 / 93
p0 1.071e+04 ± 7.977
15000
14000
13000
12000
11000
10000
9000


cor_asym_atl2_mean vs run
χ² / ndf 107.2 / 93
p0 −6040 ± 2262
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean −1668
Std Dev 0
2
1
0
−1
−2

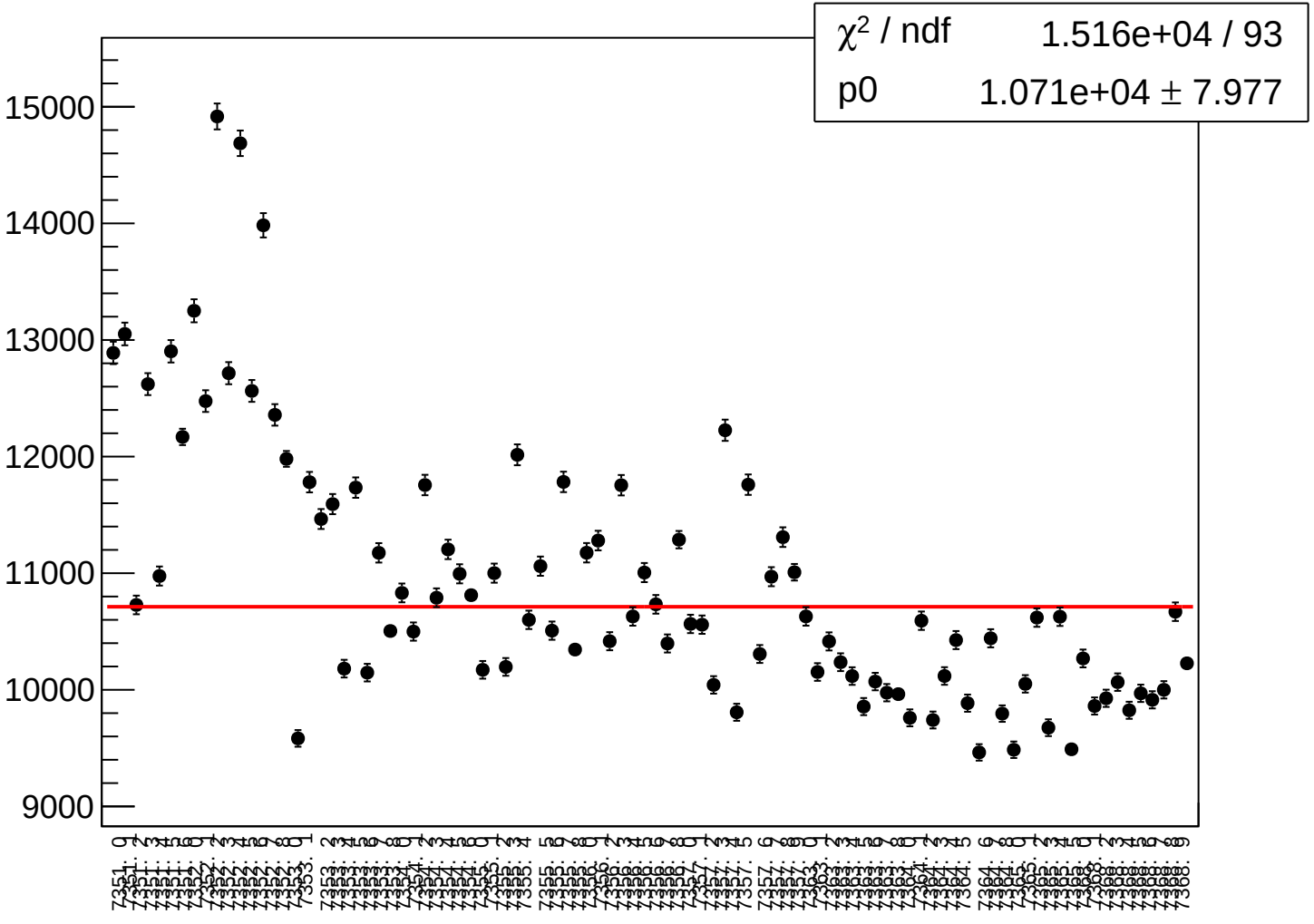

pull1D
Entries 94
Mean −0.002051
Std Dev 1.068
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

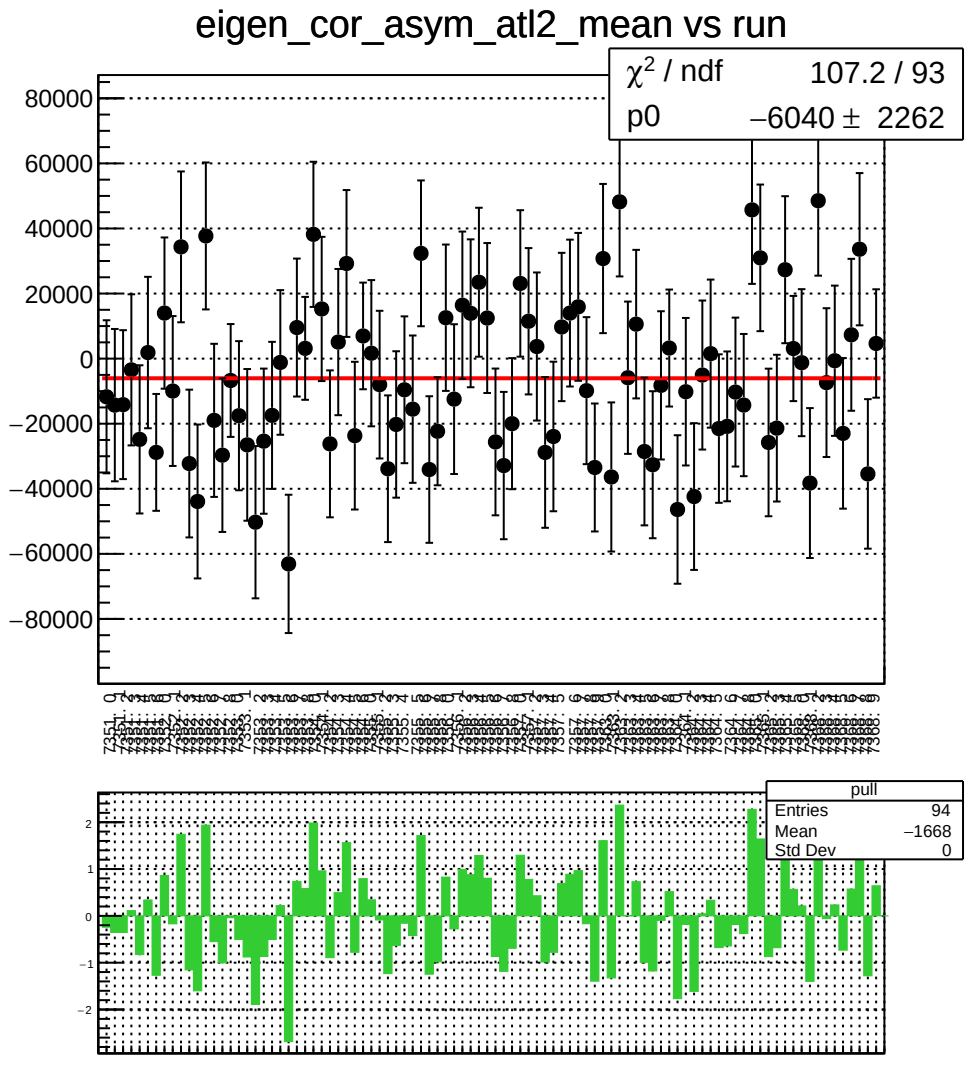

cor_asym_atl2_rms vs run
χ² / ndf 742.7 / 93
p0 2157 ± 1.6
2250
2200
2150
2100
2050
2000

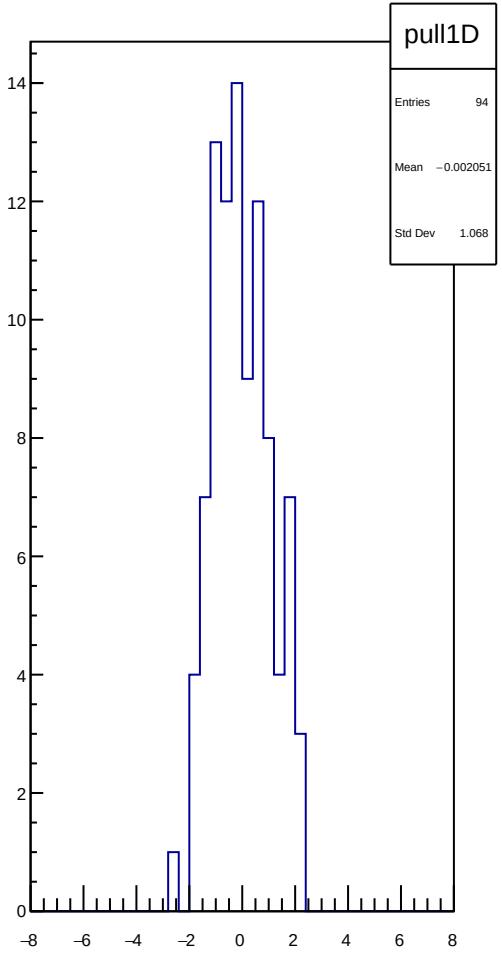

asym_atl2_cor_correction_mean vs run
×10^3
χ² / ndf 76.27 / 93
p0 1.203e+04 ± 1.128e+04
pull
Entries 94
Mean −122.8
Std Dev 0

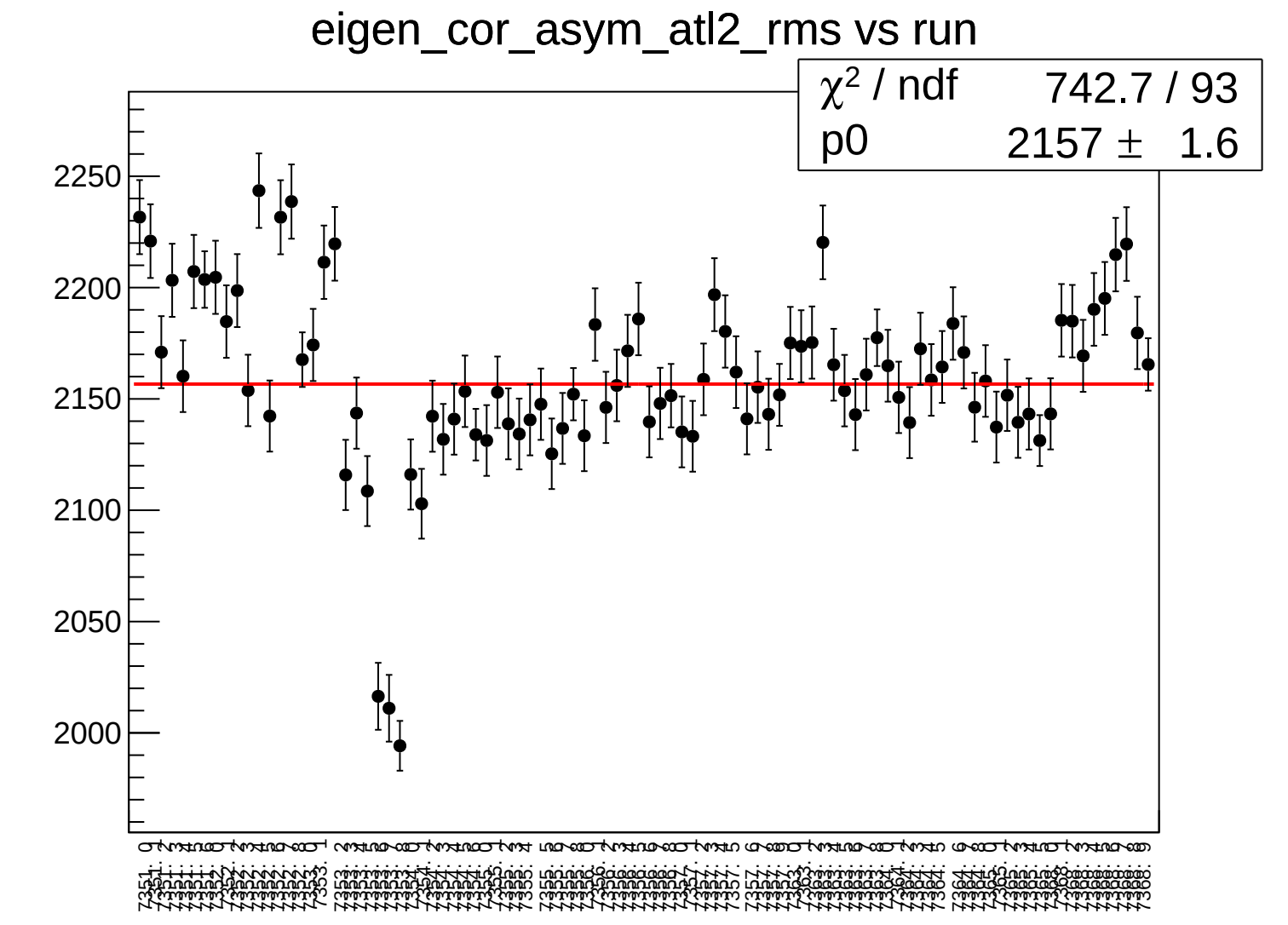

pull1D
Entries 94
Mean 0.01242
Std Dev 0.9007

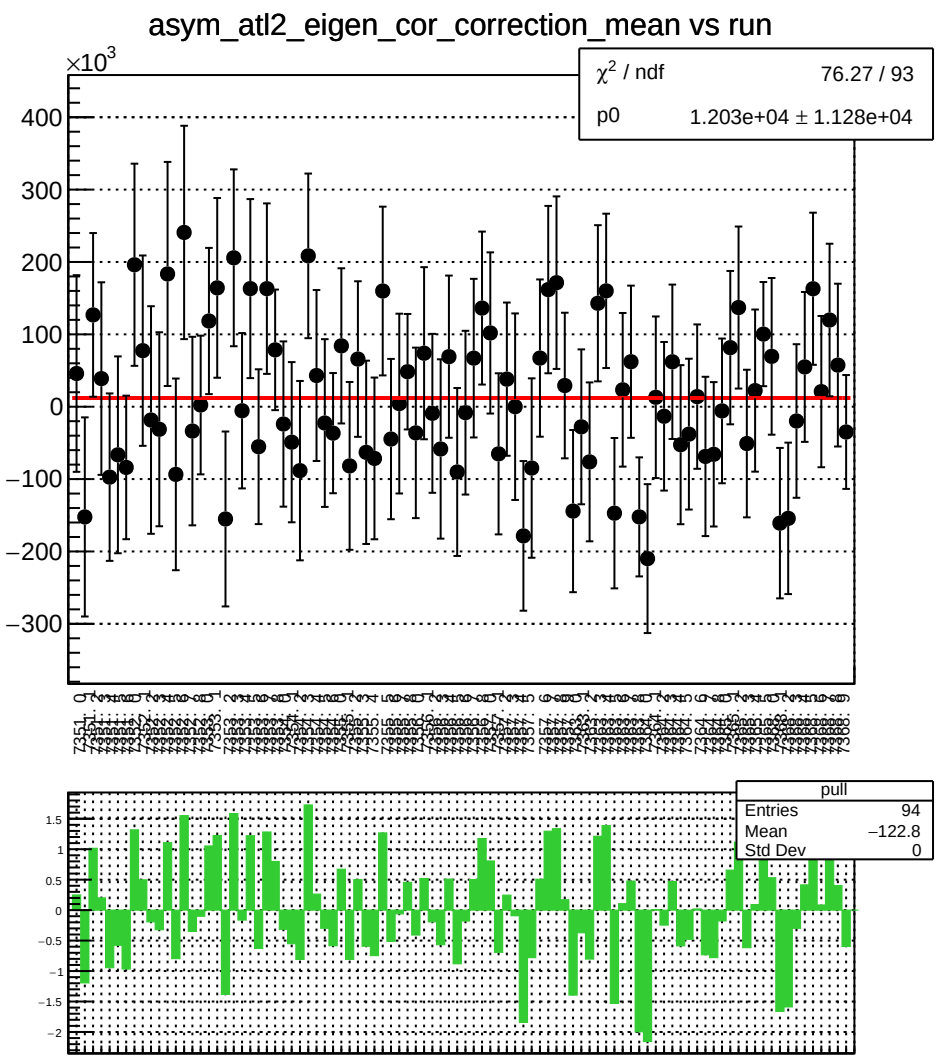
asym_atl2_cor_correction_rms vs run

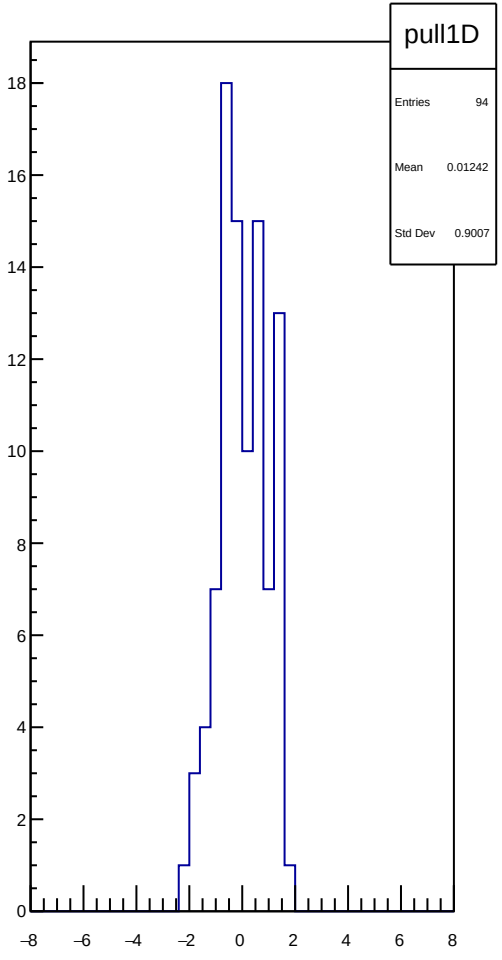


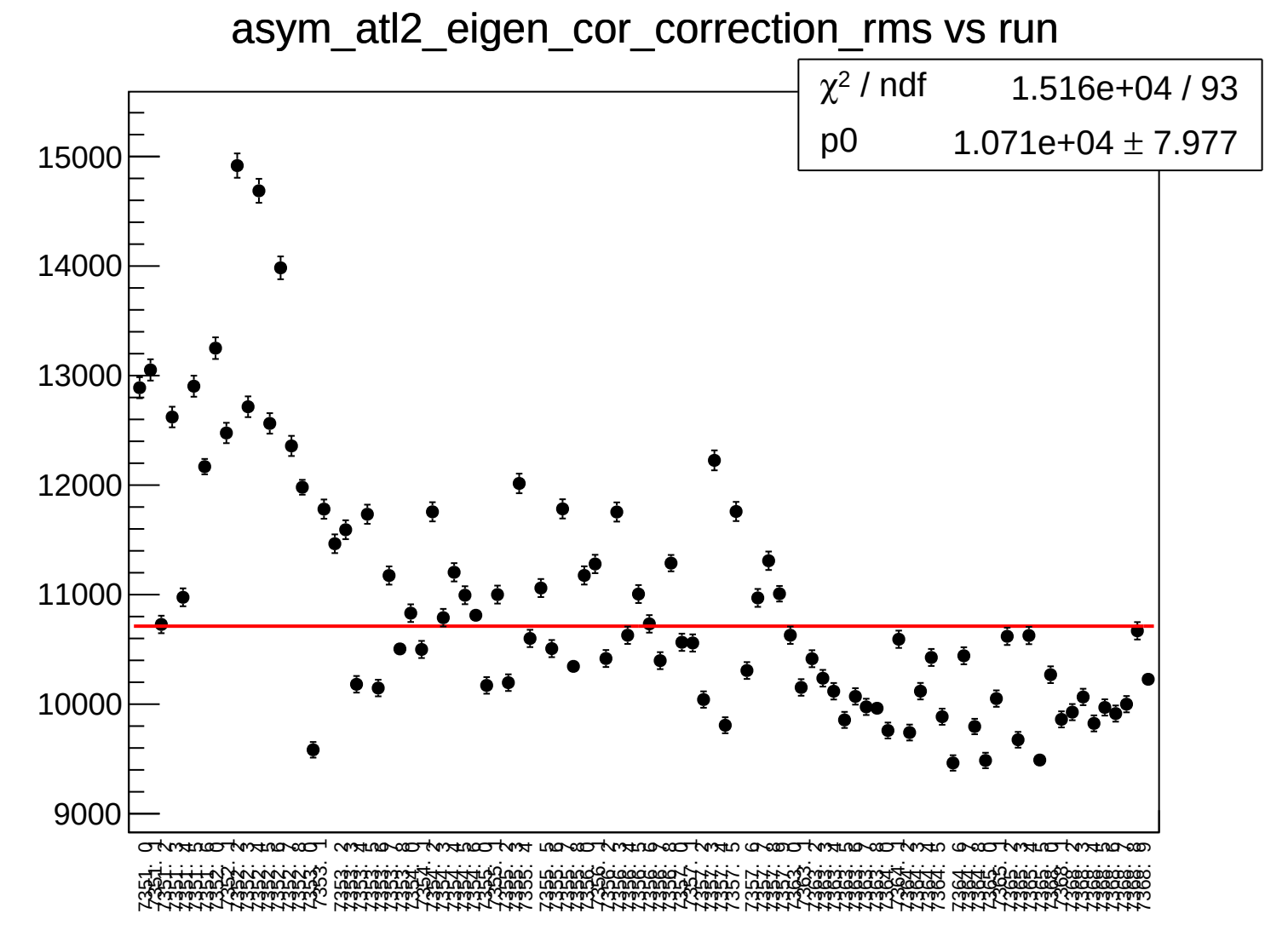

eigen_cor_asym_atl2_mean vs run
χ² / ndf 107.2 / 93
p0 −6040 ± 2262
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean −1668
Std Dev 0
2
1
0
−1
−2

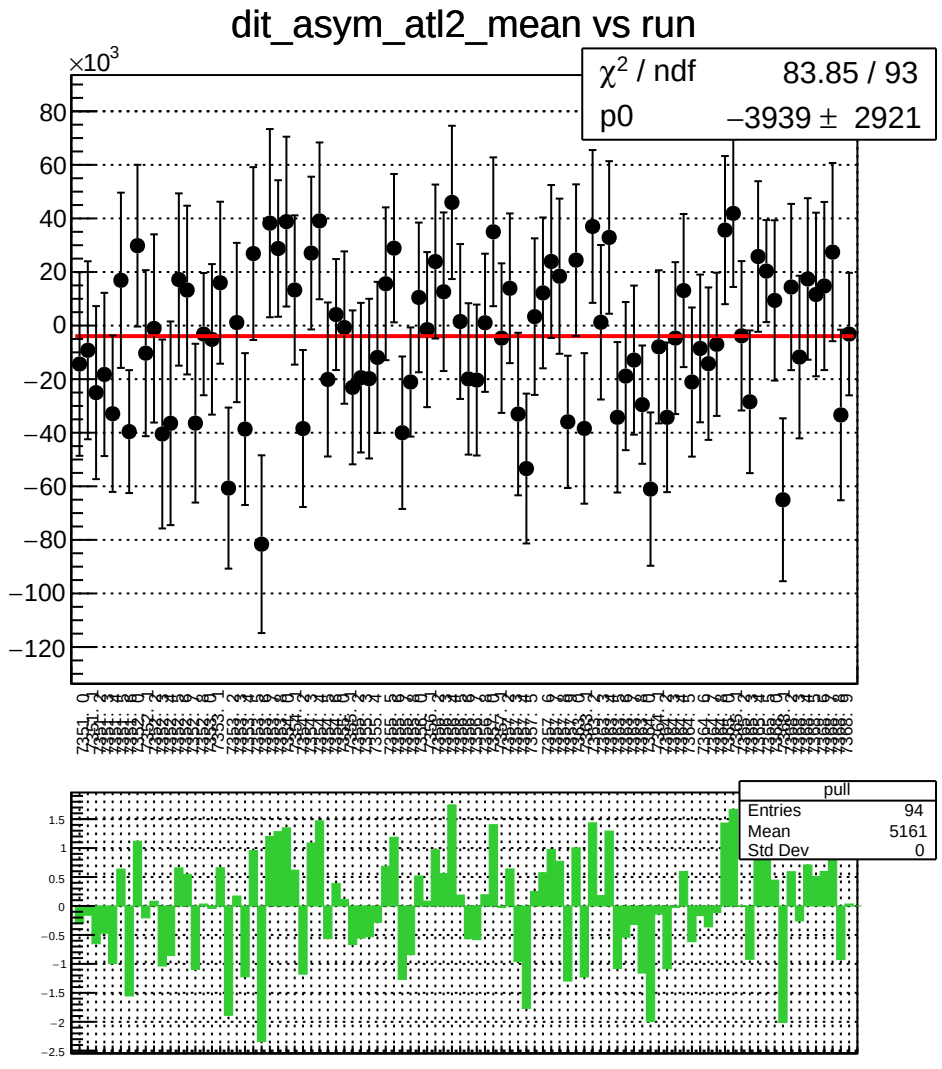

pull1D
Entries 94
Mean −0.002051
Std Dev 1.068
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

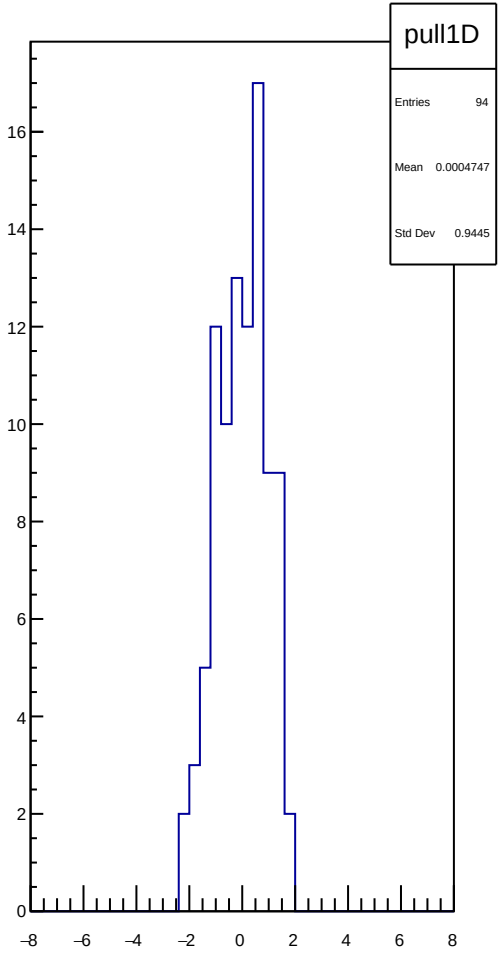

eigen_cor_asym_atl2_rms vs run
χ² / ndf 742.7 / 93
p0 2157 ± 1.6
2250
2200
2150
2100
2050
2000

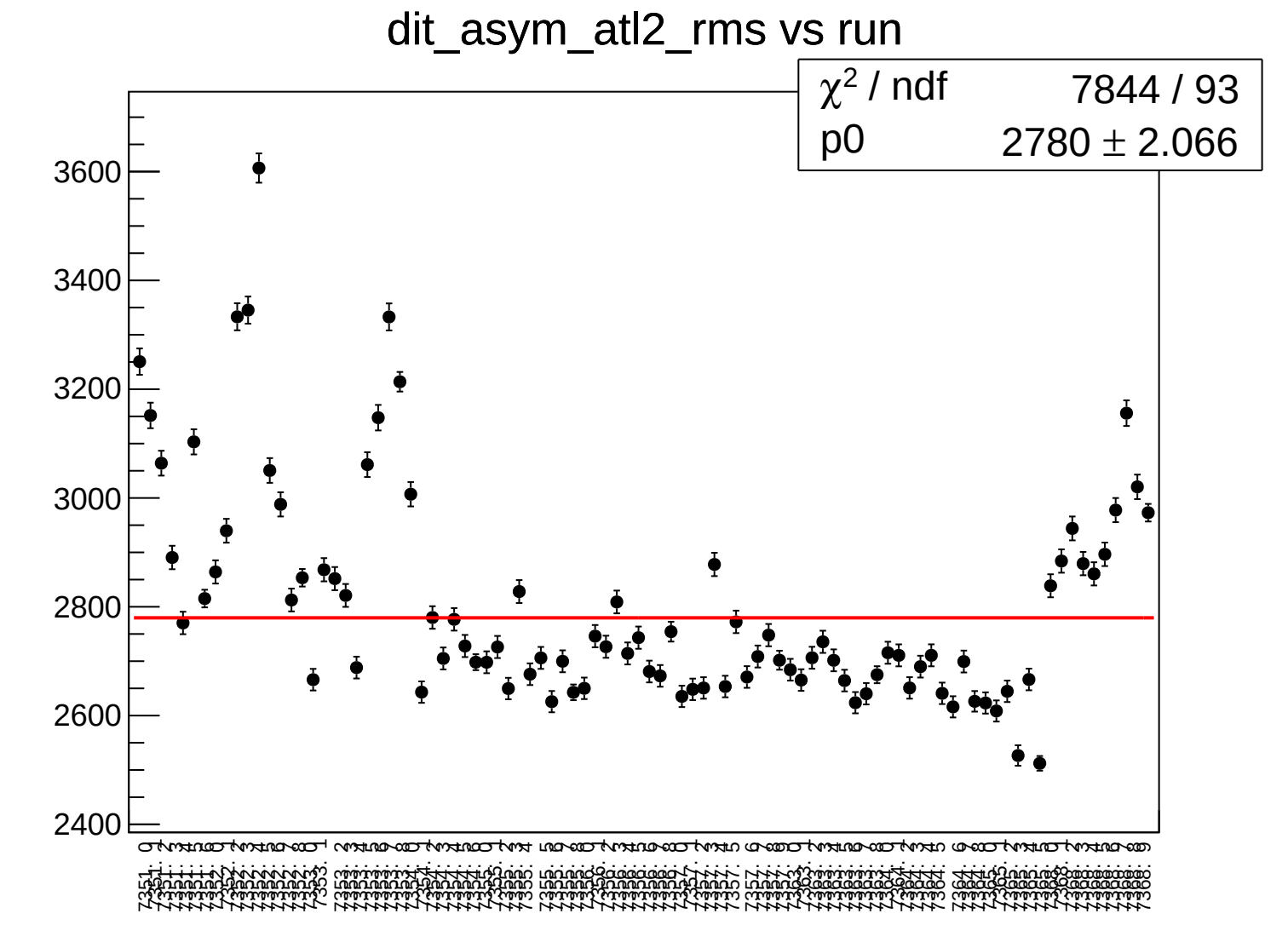

asym_atl2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 76.27 / 93
p0 1.203e+04 ± 1.128e+04
pull
Entries 94
Mean −122.8
Std Dev 0

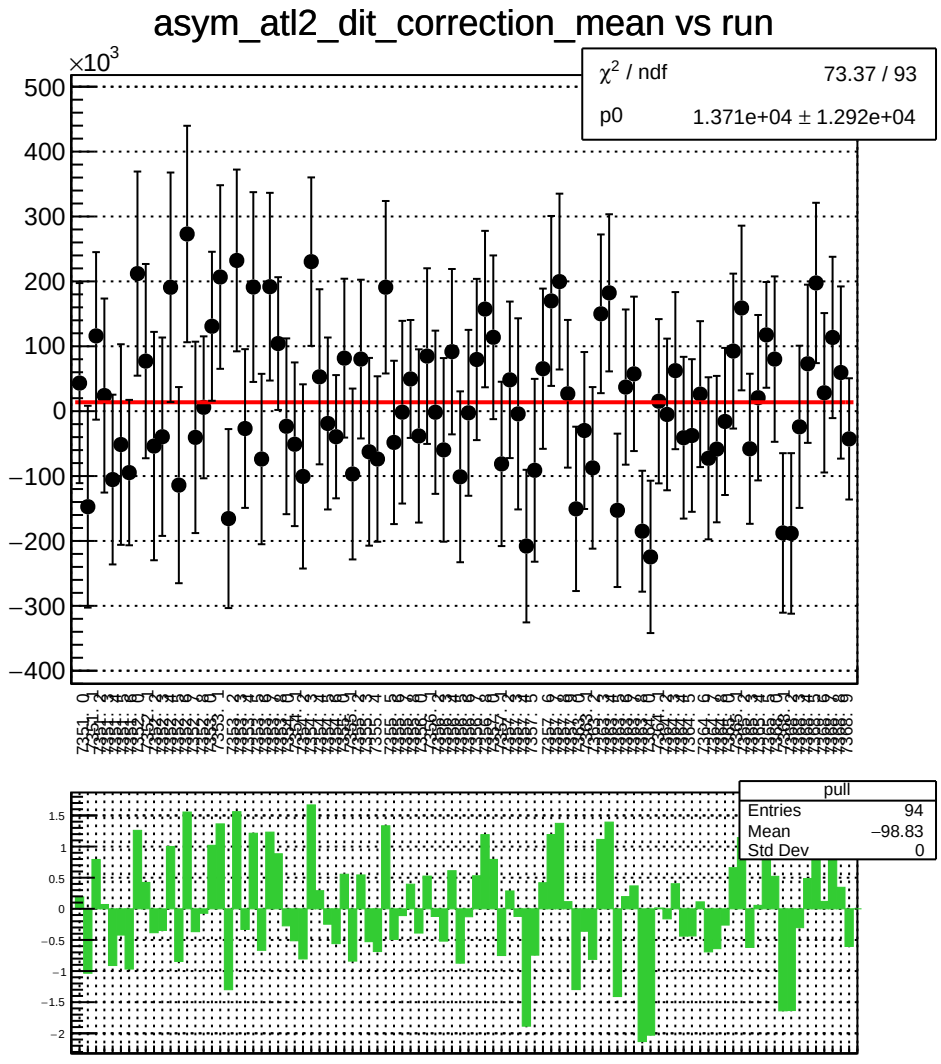

pull1D
Entries 94
Mean 0.01242
Std Dev 0.9007

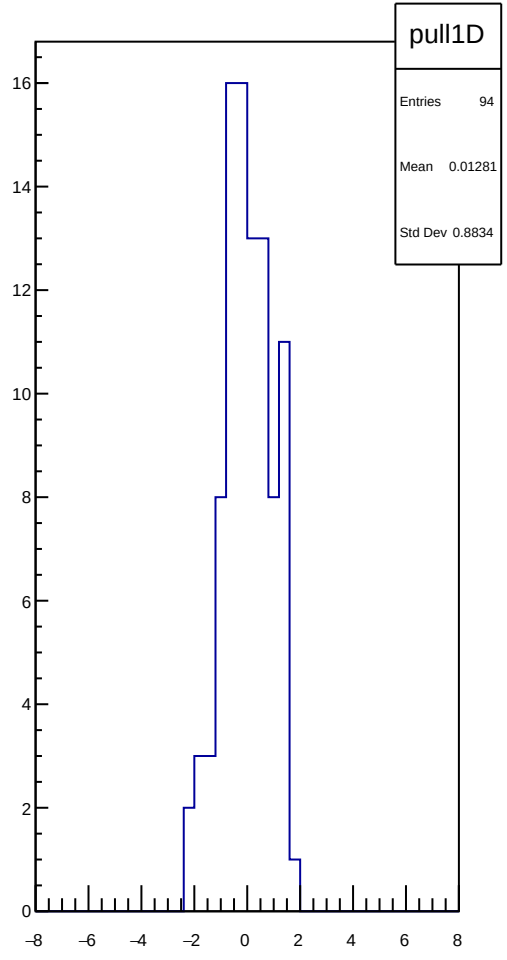

asym_atl2_eigen_cor_correction_rms vs run
χ² / ndf 1.516e+04 / 93
p0 1.071e+04 ± 7.977
15000
14000
13000
12000
11000
10000
9000

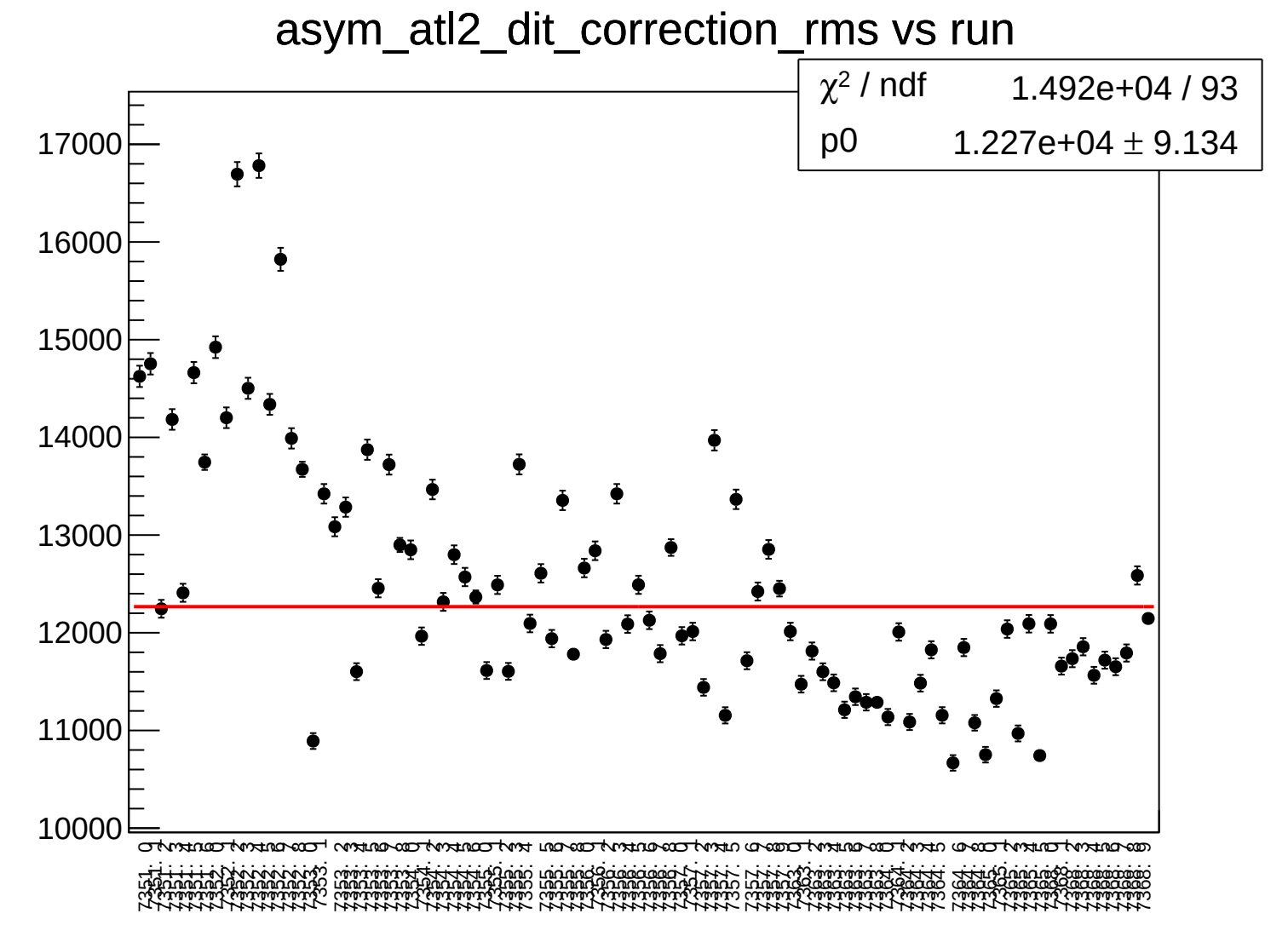

dit_asym_atl2_mean vs run
×10^3
χ^2 / ndf 83.85 / 93
p0 −3939 ± 2921
pull
Entries 94
Mean 5161
Std Dev 0

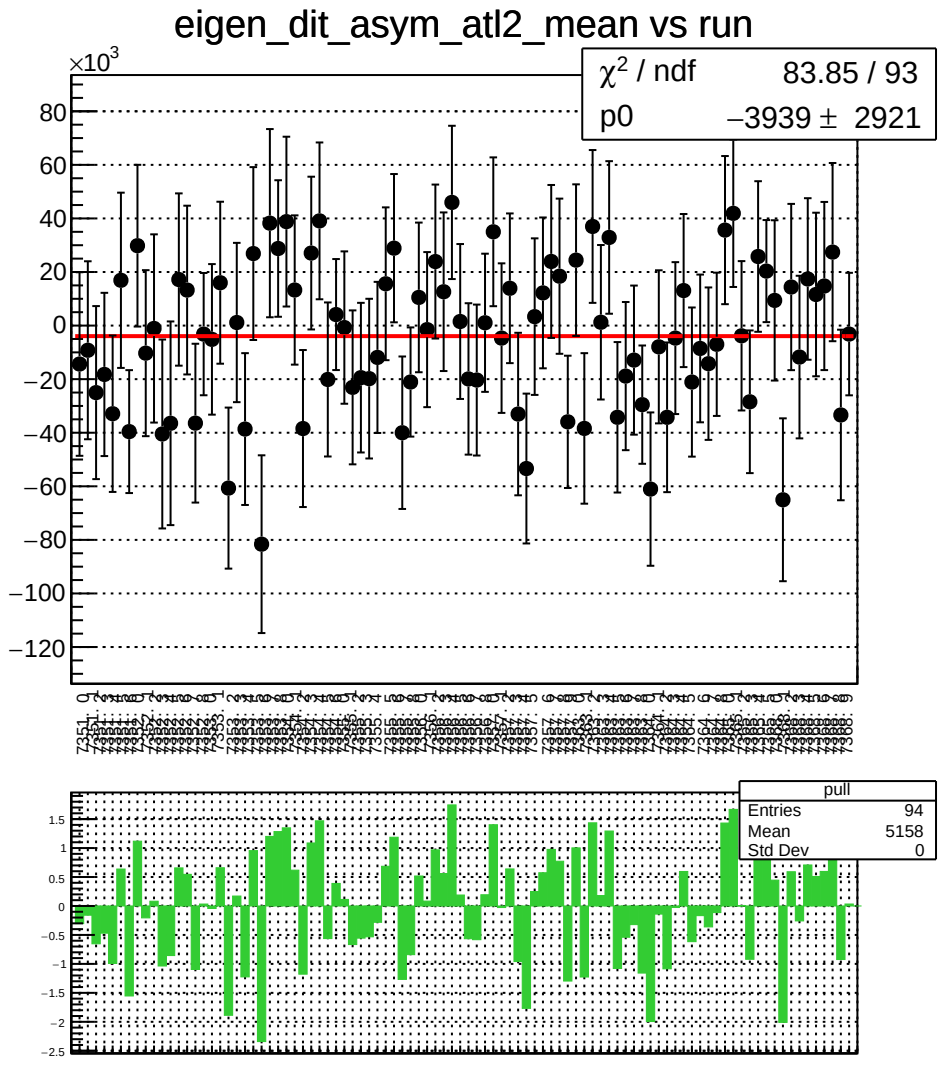

pull1D
Entries 94
Mean 0.0004747
Std Dev 0.9445

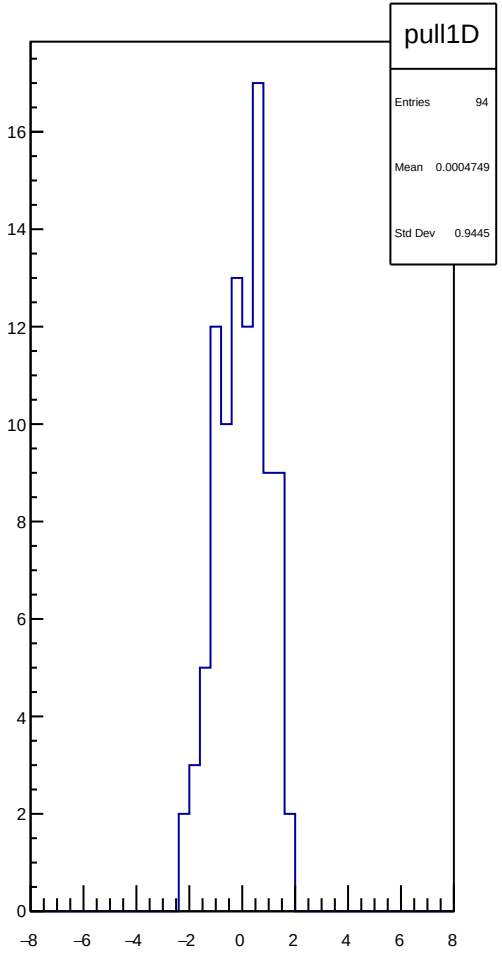

dit_asym_atl2_rms vs run
χ^2 / ndf 7844 / 93
p0 2780 ± 2.066
3600
3400
3200
3000
2800
2600
2400

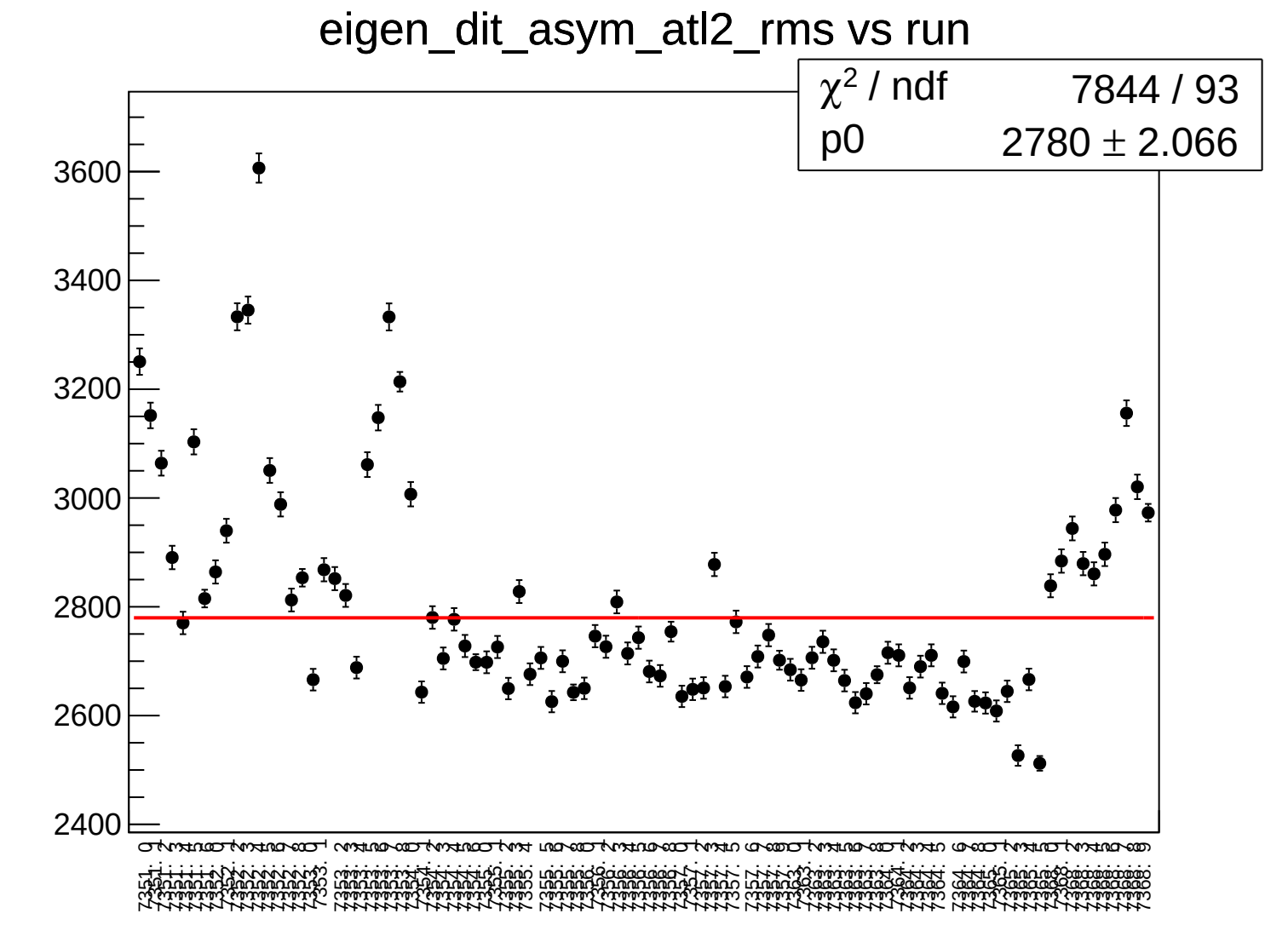

asym_atl2_dit_correction_mean vs run
×10^3
χ² / ndf 73.37 / 93
p0 1.371e+04 ± 1.292e+04
pull
Entries 94
Mean −98.83
Std Dev 0

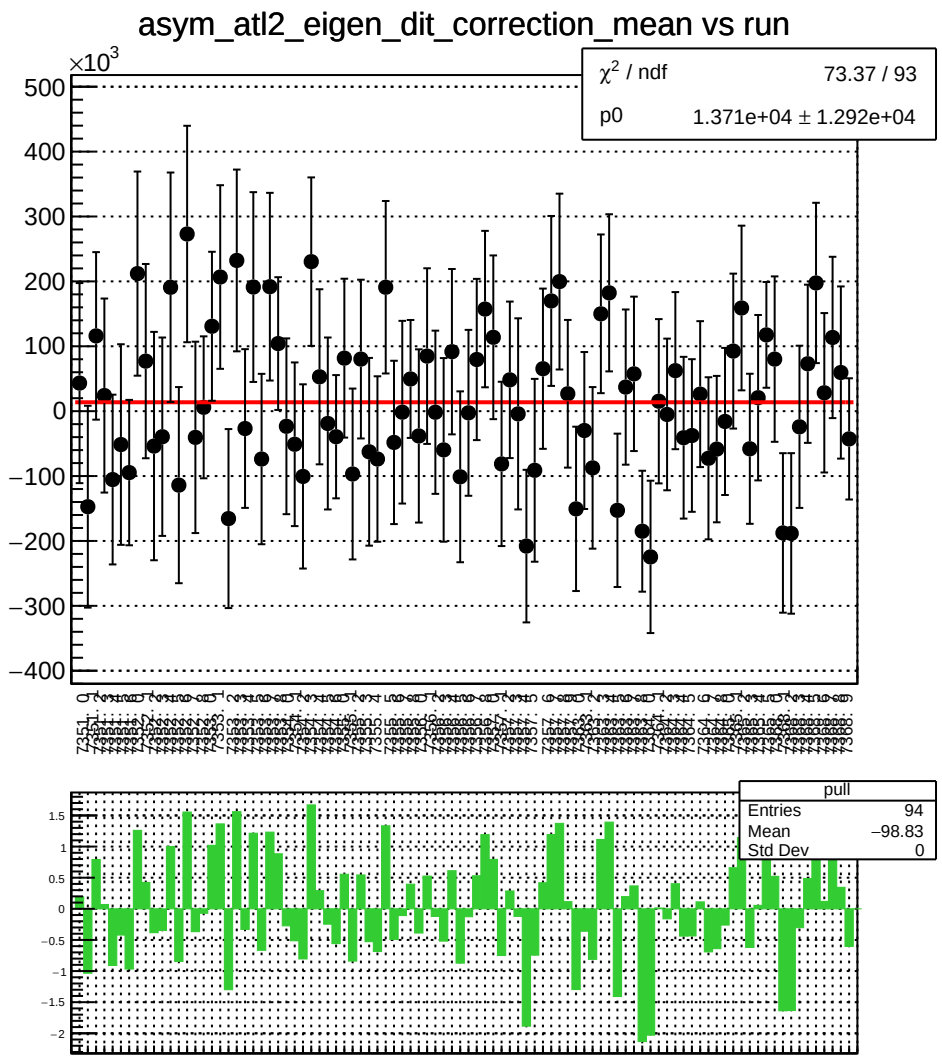

pull1D
Entries 94
Mean 0.01281
Std Dev 0.8834

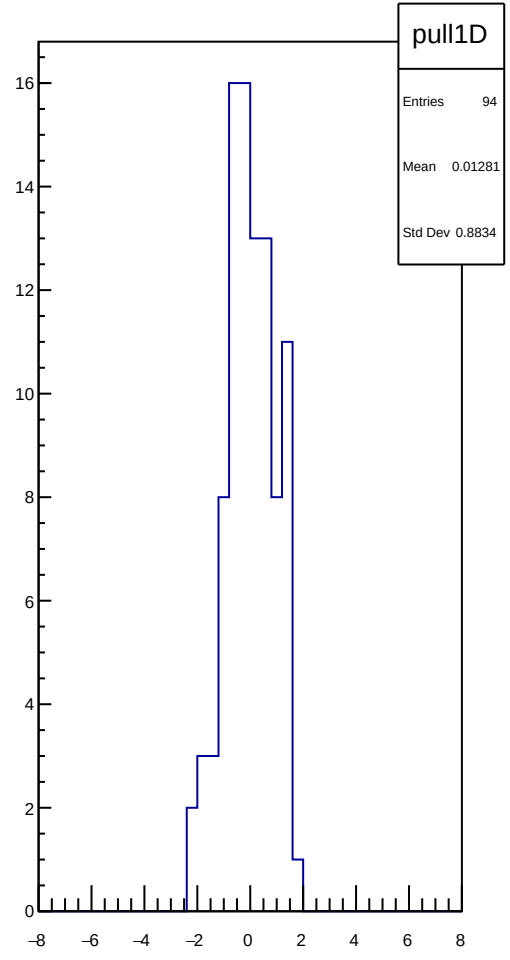

asym_atl2_dit_correction_rms vs run
χ² / ndf 1.492e+04 / 93
p0 1.227e+04 ± 9.134
17000
16000
15000
14000
13000
12000
11000
10000

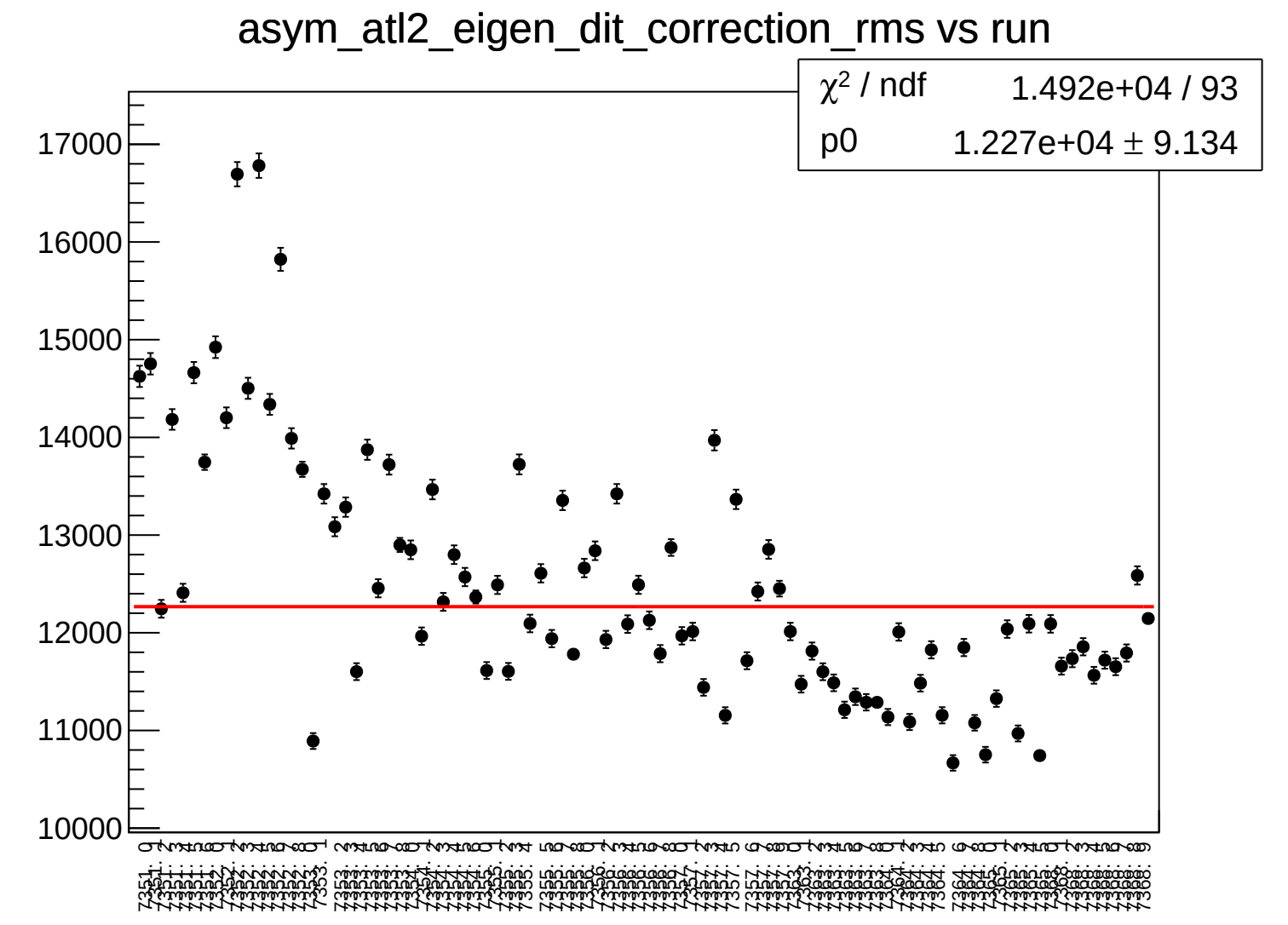

eigen_dit_asym_atl2_mean vs run
×10^3
χ^2 / ndf 83.85 / 93
p0 −3939 ± 2921
pull
Entries 94
Mean 5158
Std Dev 0

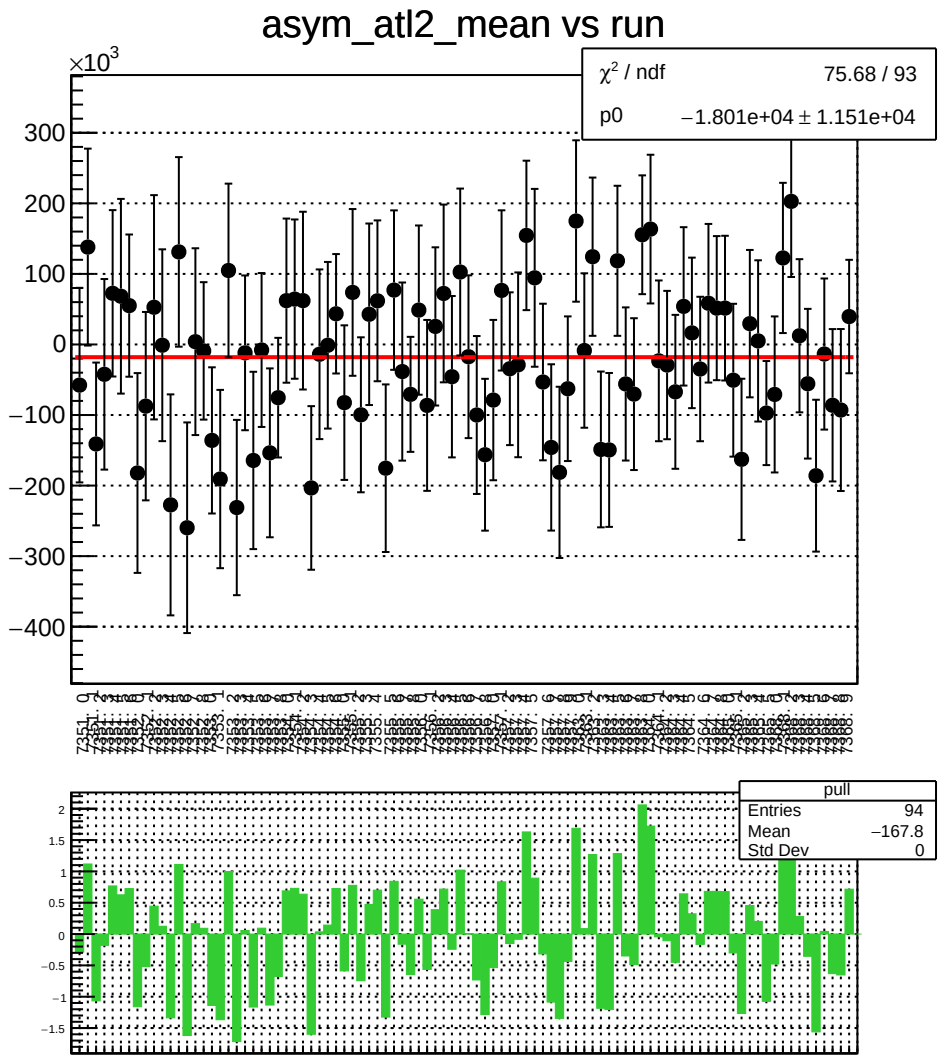

pull1D
Entries 94
Mean 0.0004749
Std Dev 0.9445

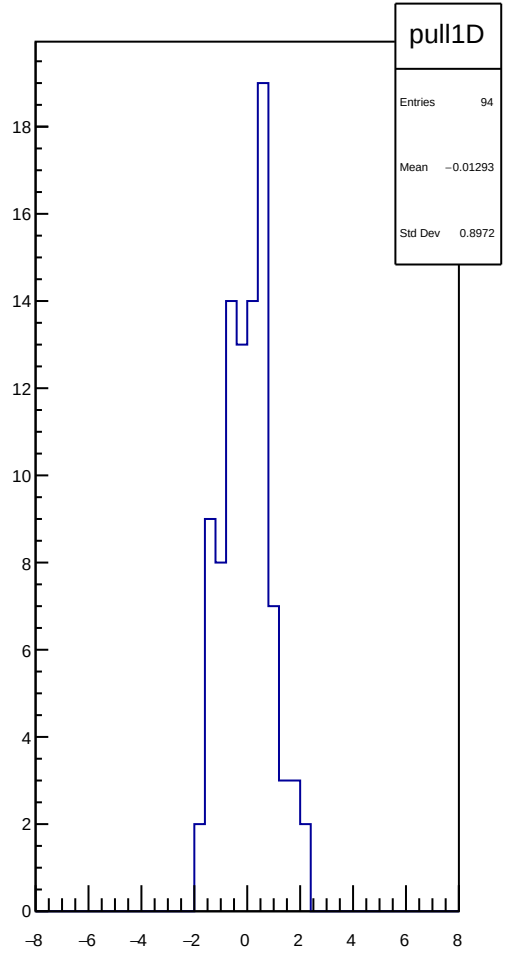

eigen_dit_asym_atl2_rms vs run
χ^2 / ndf 7844 / 93
p0 2780 ± 2.066
3600
3400
3200
3000
2800
2600
2400

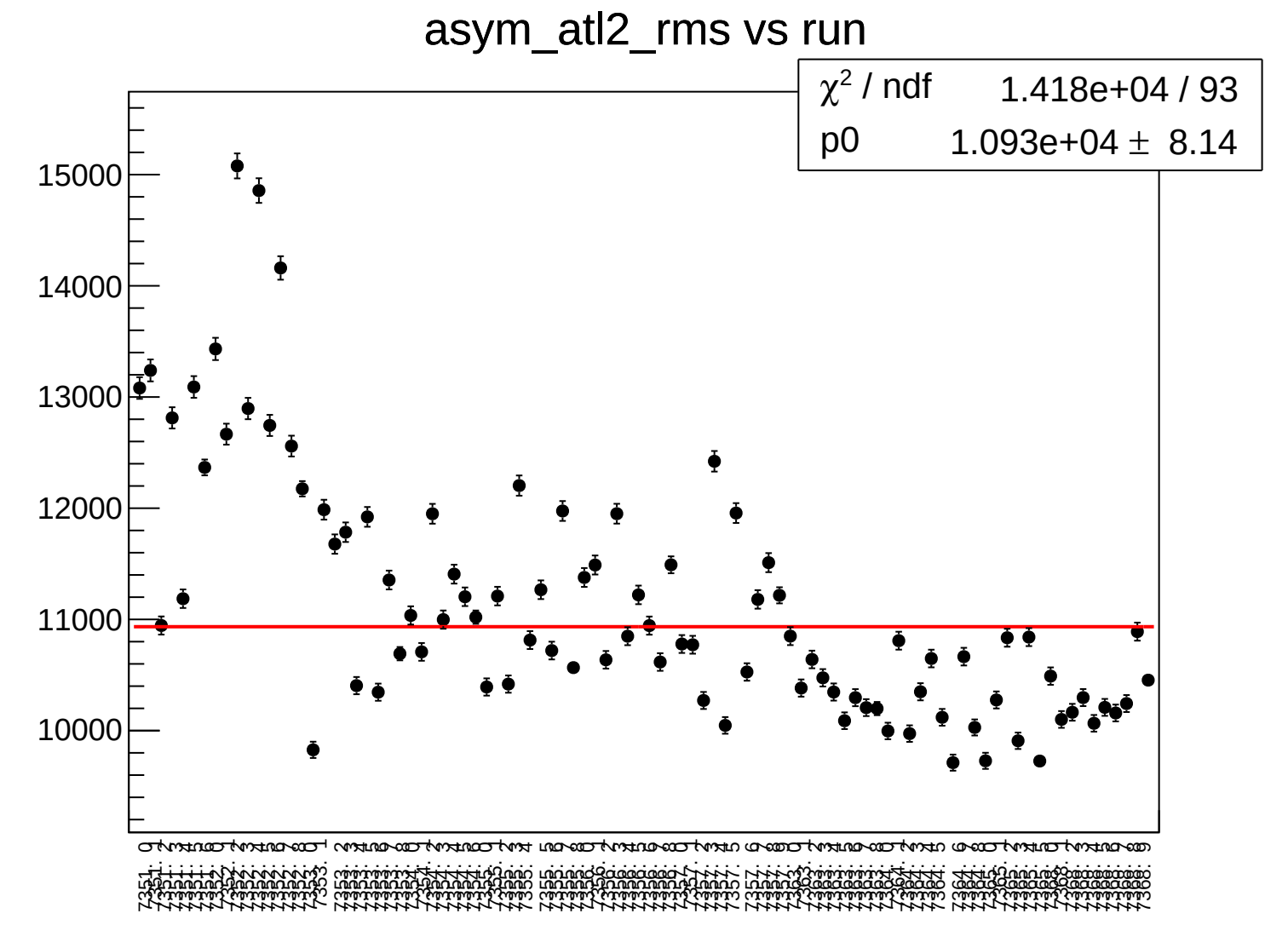

asym_atl2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 73.37 / 93
p0 1.371e+04 ± 1.292e+04
pull
Entries 94
Mean −98.83
Std Dev 0

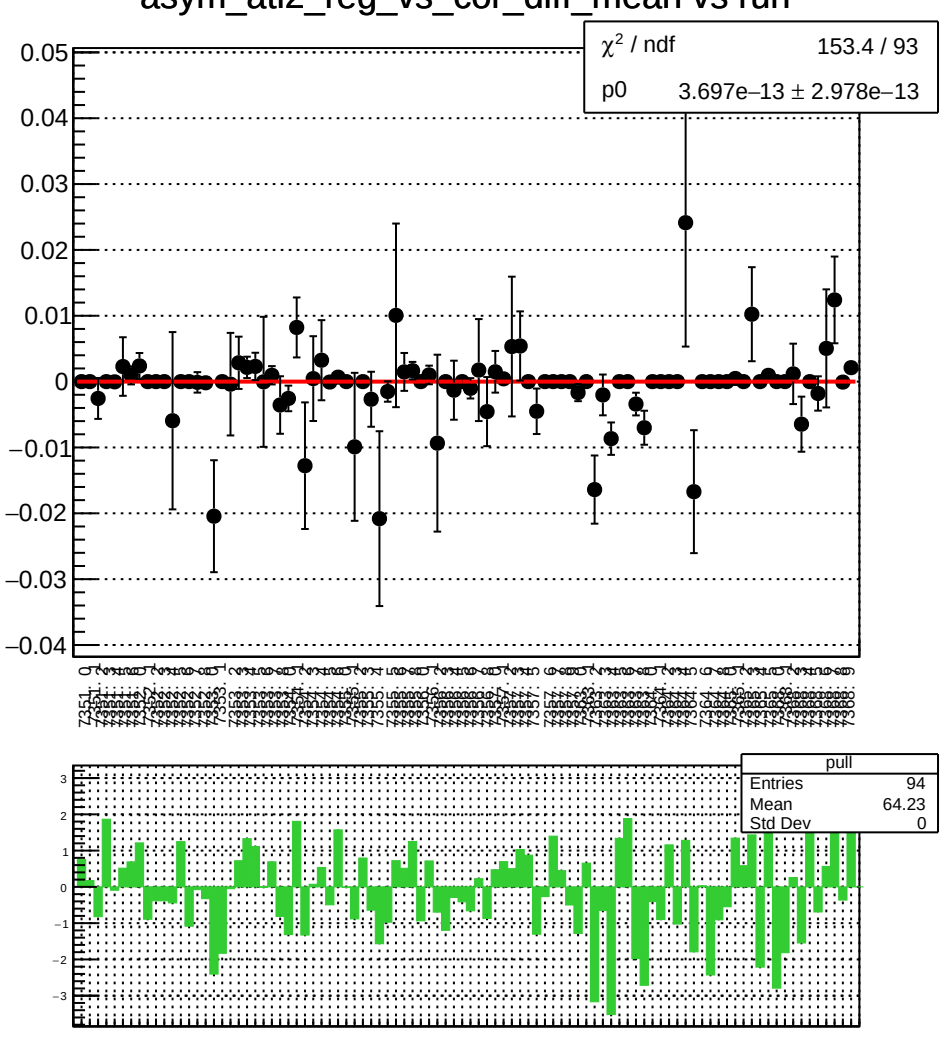

pull1D
Entries 94
Mean 0.01281
Std Dev 0.8834

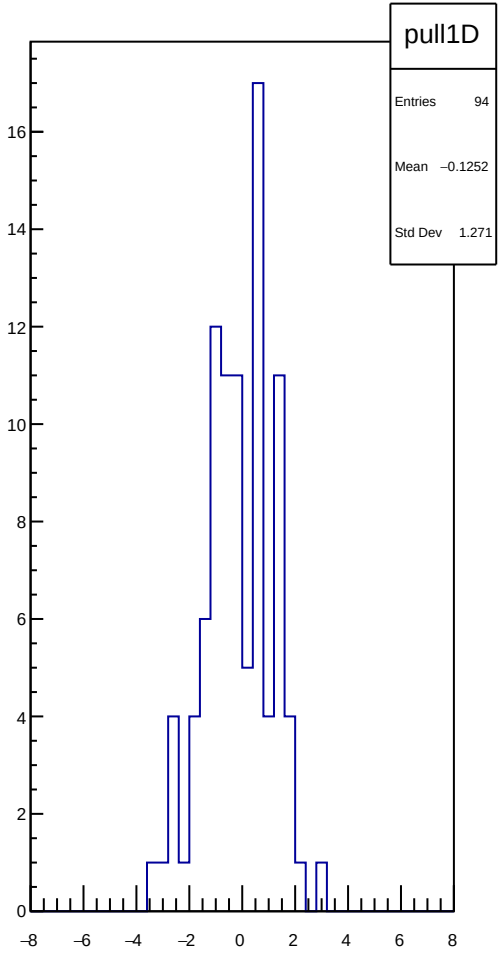

asym_atl2_eigen_dit_correction_rms vs run
χ² / ndf 1.492e+04 / 93
p0 1.227e+04 ± 9.134
17000
16000
15000
14000
13000
12000
11000
10000

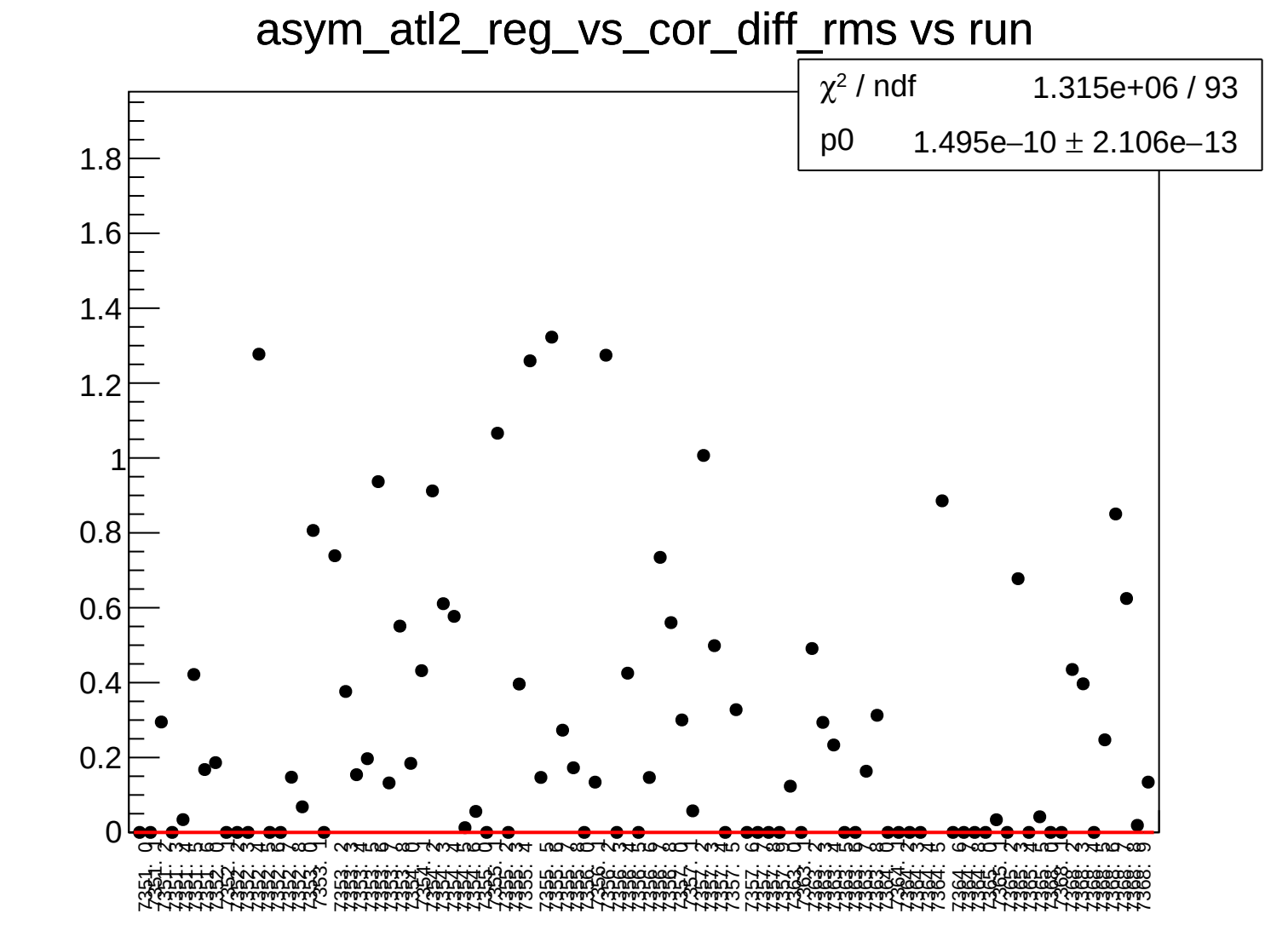

asym_atl2_mean vs run
×10^3
χ² / ndf 75.68 / 93
p0 −1.801e+04 ± 1.151e+04
300
200
100
0
−100
−200
−300
−400
pull
Entries 94
Mean −167.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

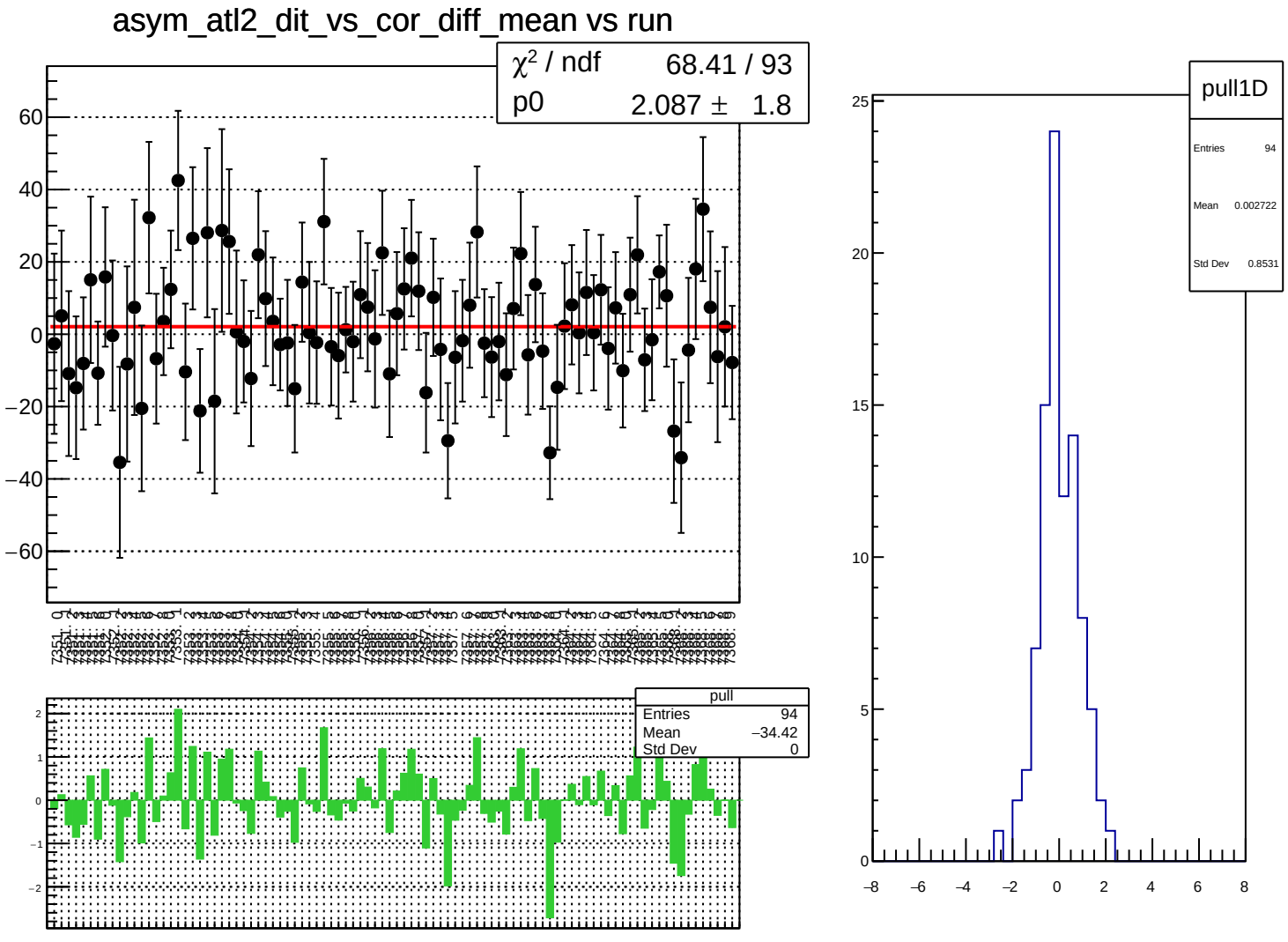

pull1D
Entries 94
Mean −0.01293
Std Dev 0.8972
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

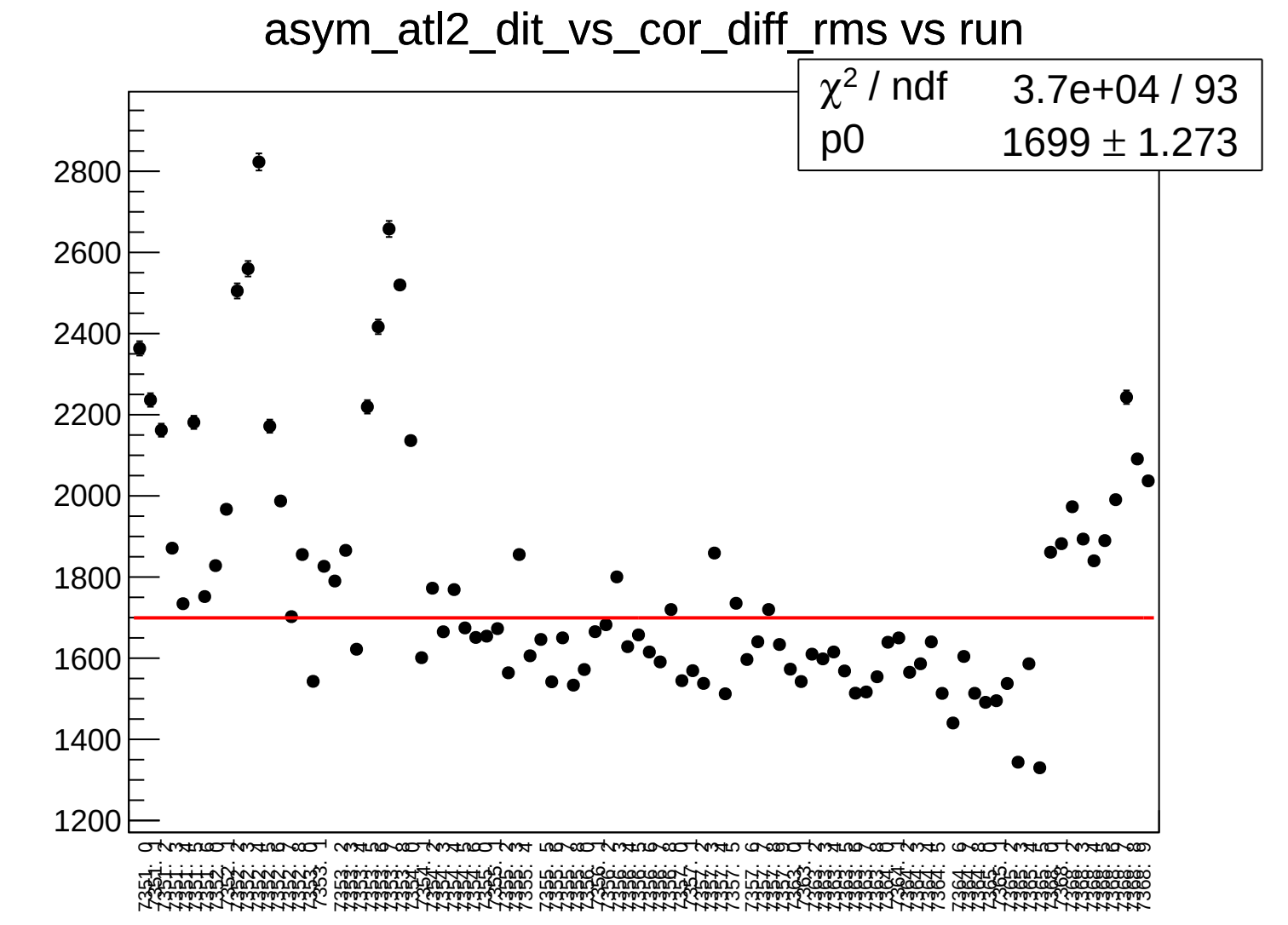

asym_atl2_rms vs run
χ^2 / ndf 1.418e+04 / 93
p0 1.093e+04 ± 8.14
15000
14000
13000
12000
11000
10000

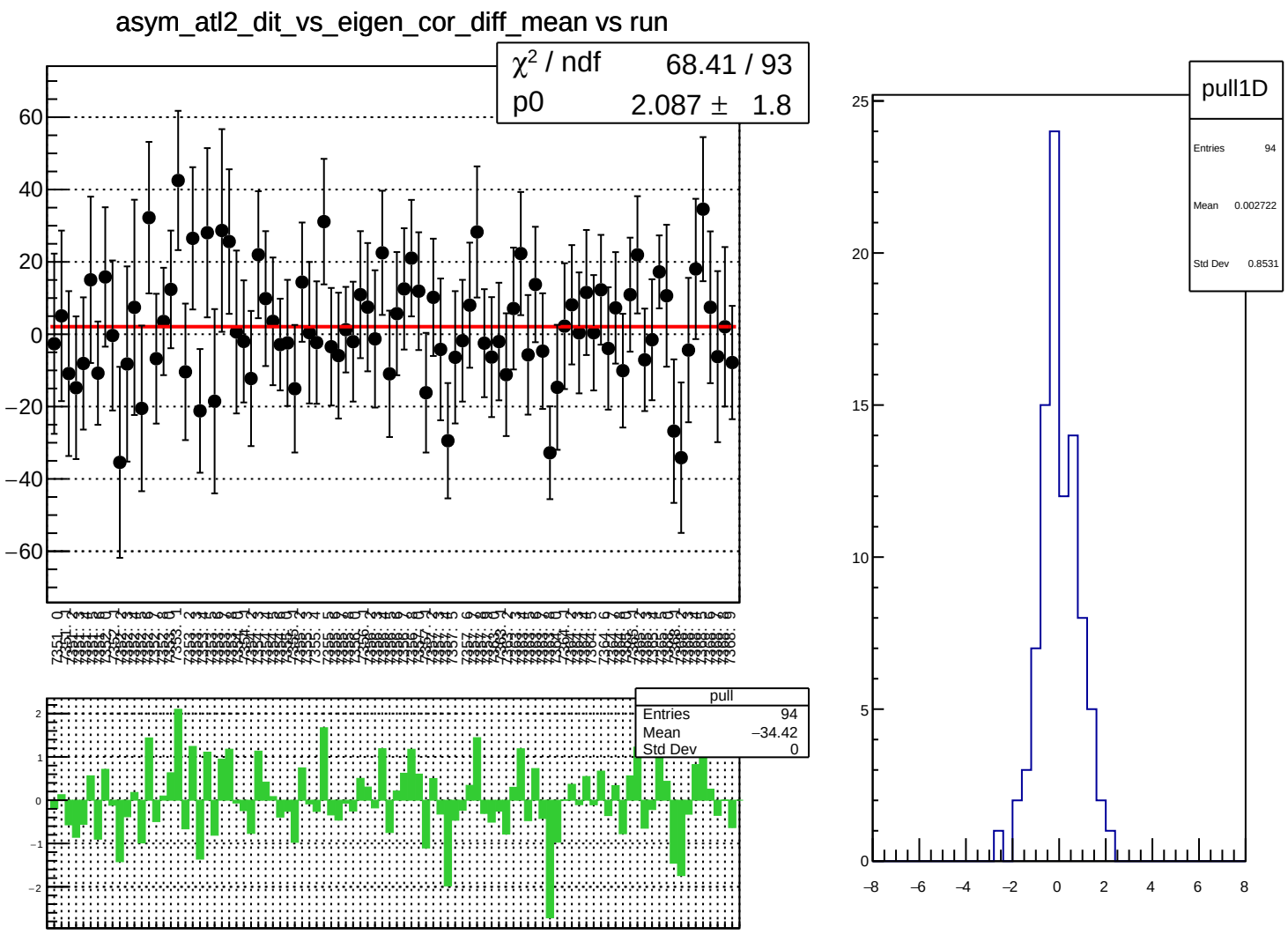

asym_atl2_reg_vs_cor_diff_mean vs run
χ² / ndf 153.4 / 93
p0 3.697e−13 ± 2.978e−13
pull
Entries 94
Mean 64.23
Std Dev 0

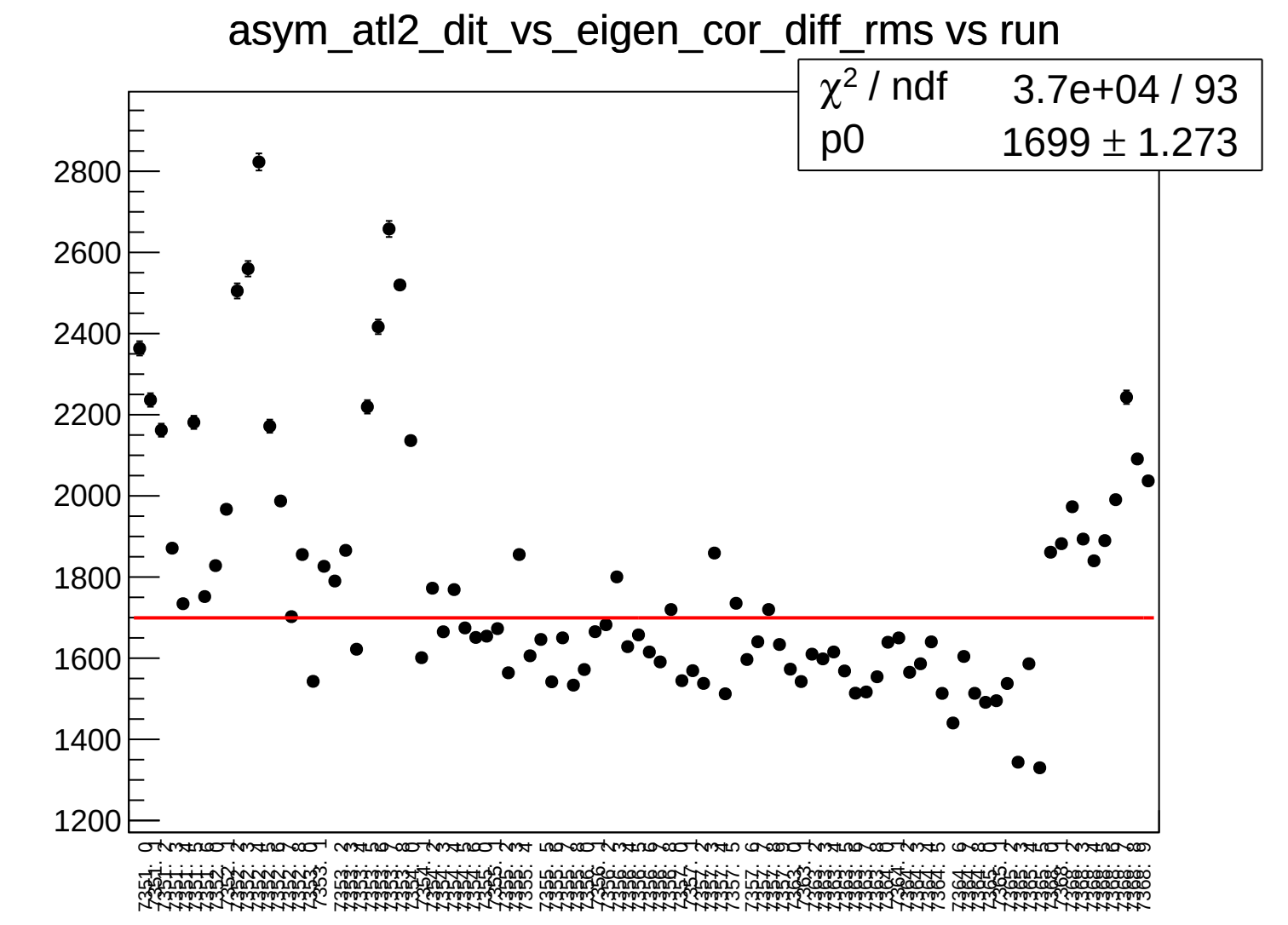

pull1D
Entries 94
Mean −0.1252
Std Dev 1.271

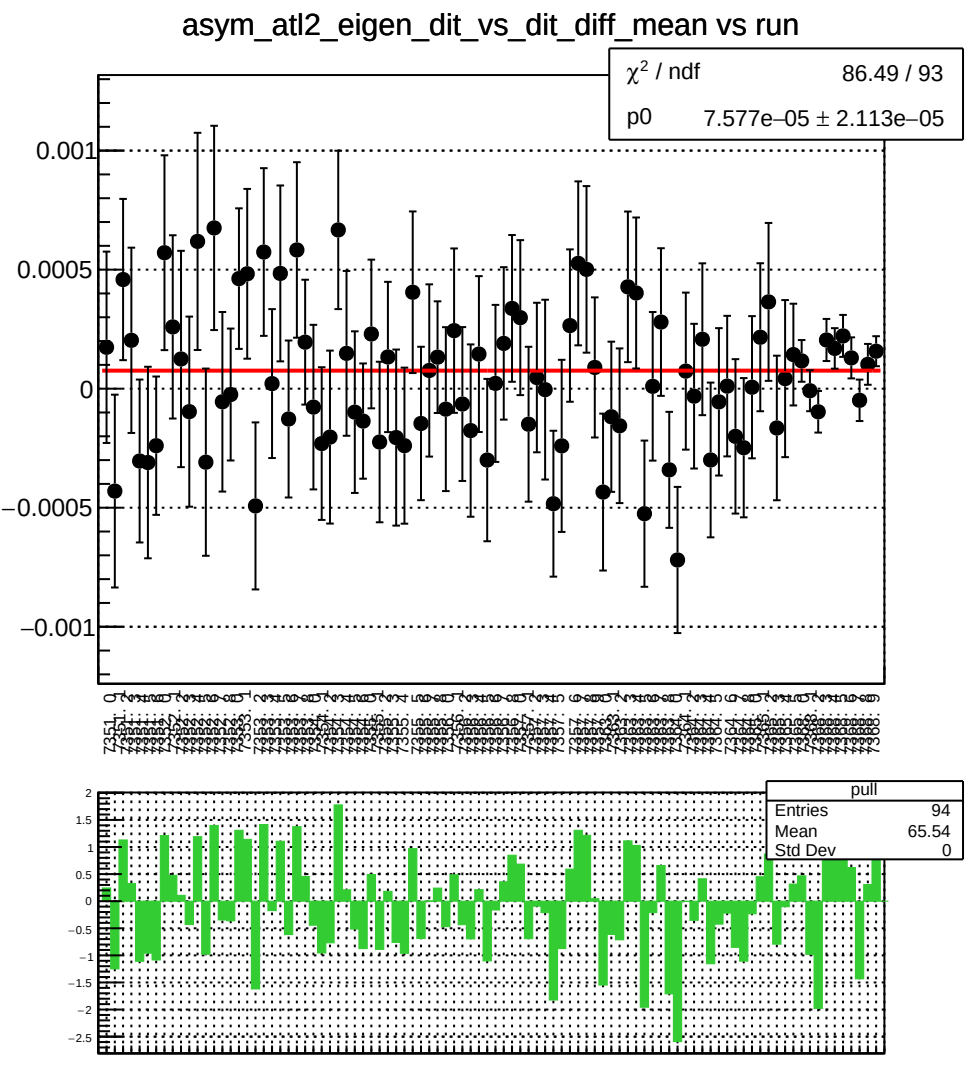

asym_atl2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.315e+06 / 93
p0 1.495e−10 ± 2.106e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

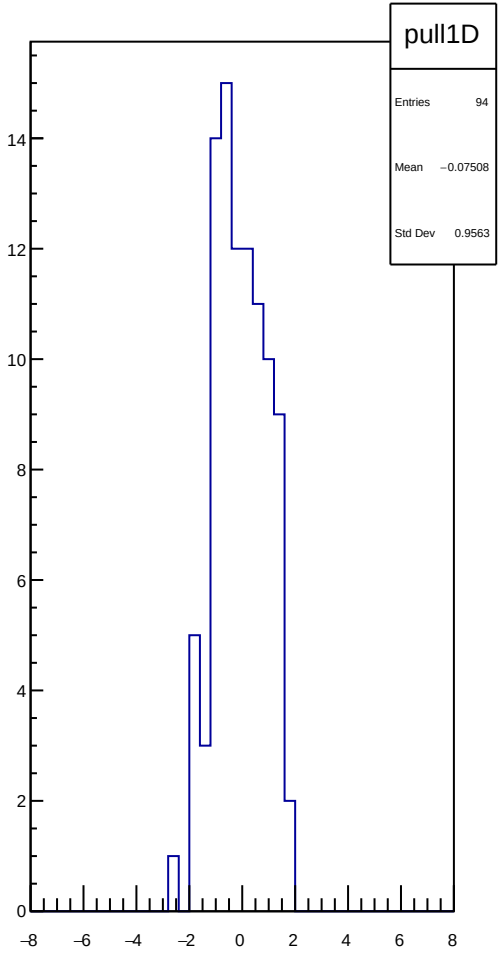

asym_atl2_dit_vs_cor_diff_mean vs run
χ² / ndf 68.41 / 93
p0 2.087 ± 1.8
pull
Entries 94
Mean −34.42
Std Dev 0
pull1D
Entries 94
Mean 0.002722
Std Dev 0.8531

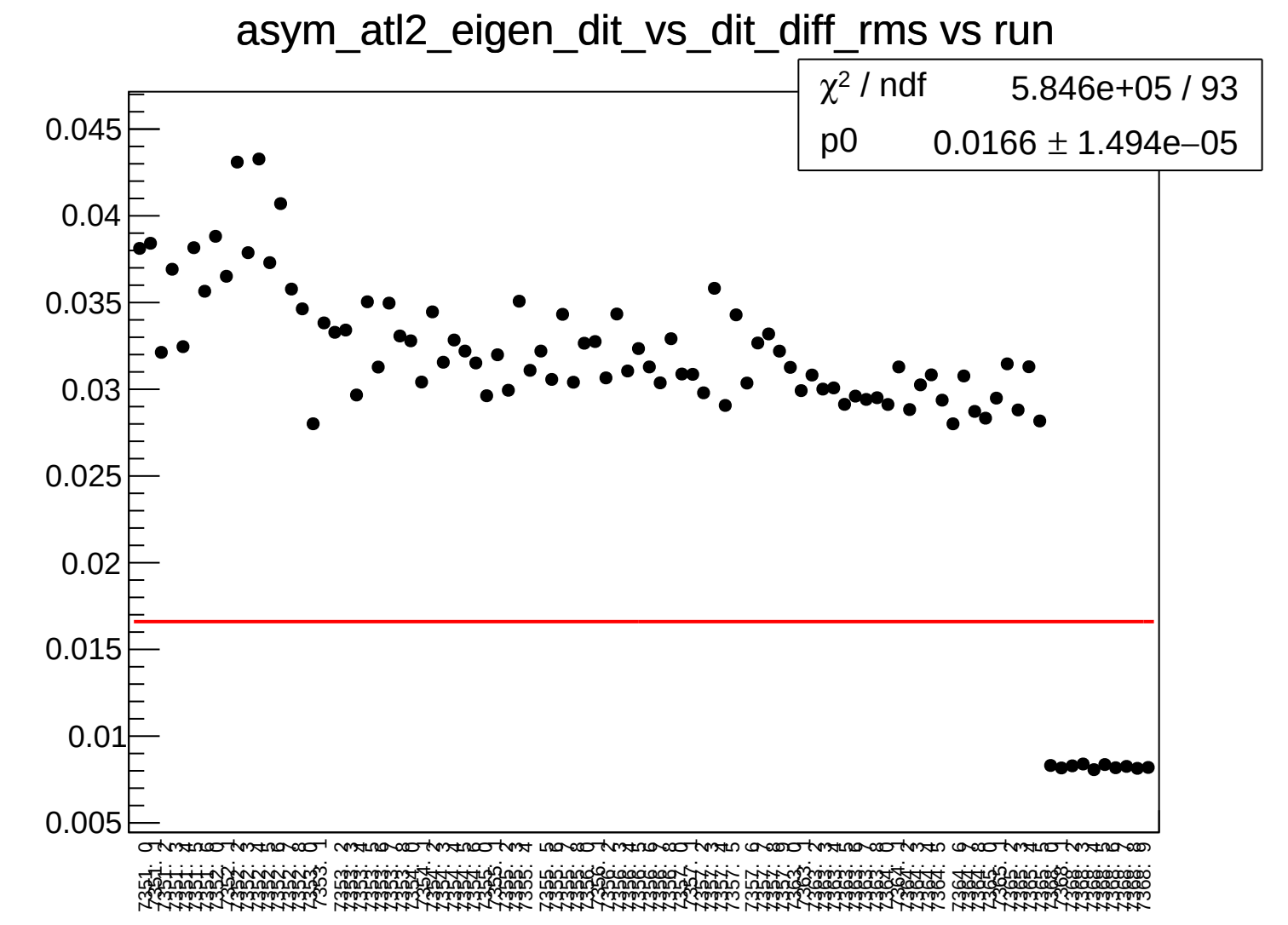

asym_atl2_dit_vs_cor_diff_rms vs run
χ² / ndf 3.7e+04 / 93
p0 1699 ± 1.273
2800
2600
2400
2200
2000
1800
1600
1400
1200

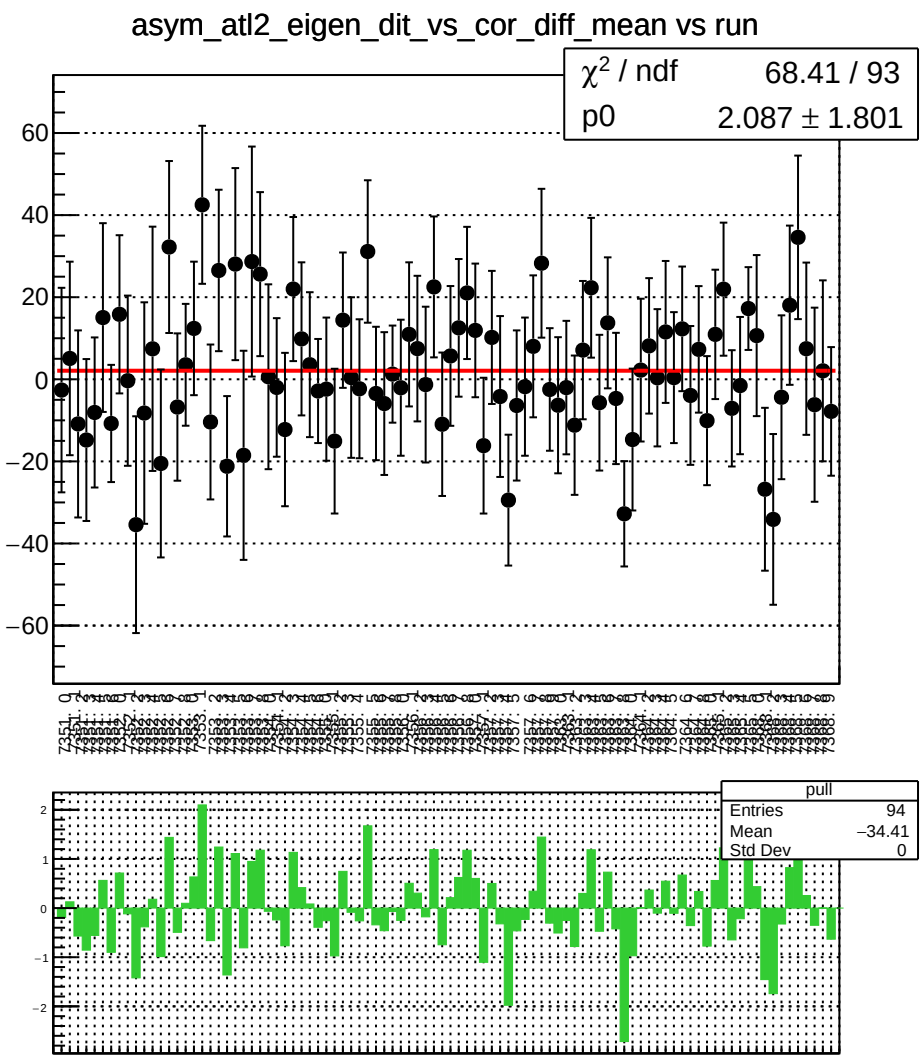

asym_atl2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.41 / 93
p0 2.087 ± 1.8
pull
Entries 94
Mean −34.42
Std Dev 0
pull1D
Entries 94
Mean 0.002722
Std Dev 0.8531

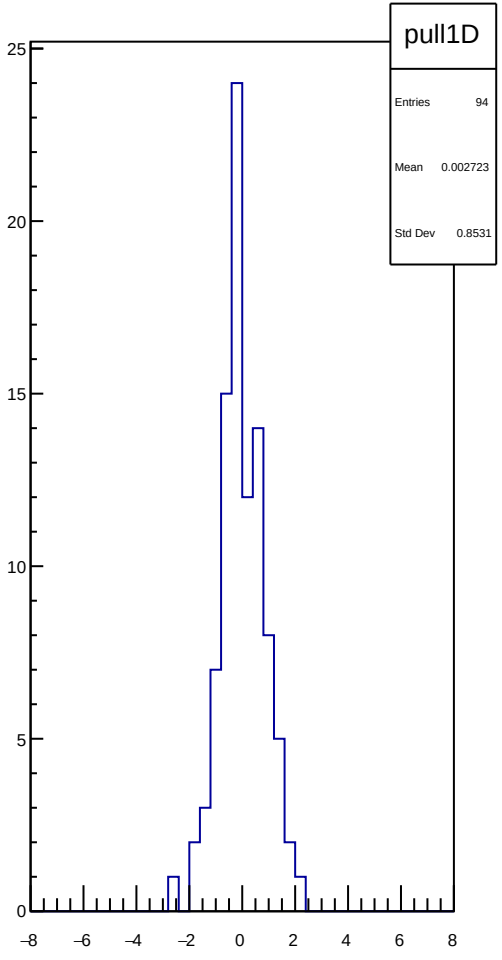

asym_atl2_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 3.7e+04 / 93
p0 1699 ± 1.273
2800
2600
2400
2200
2000
1800
1600
1400
1200

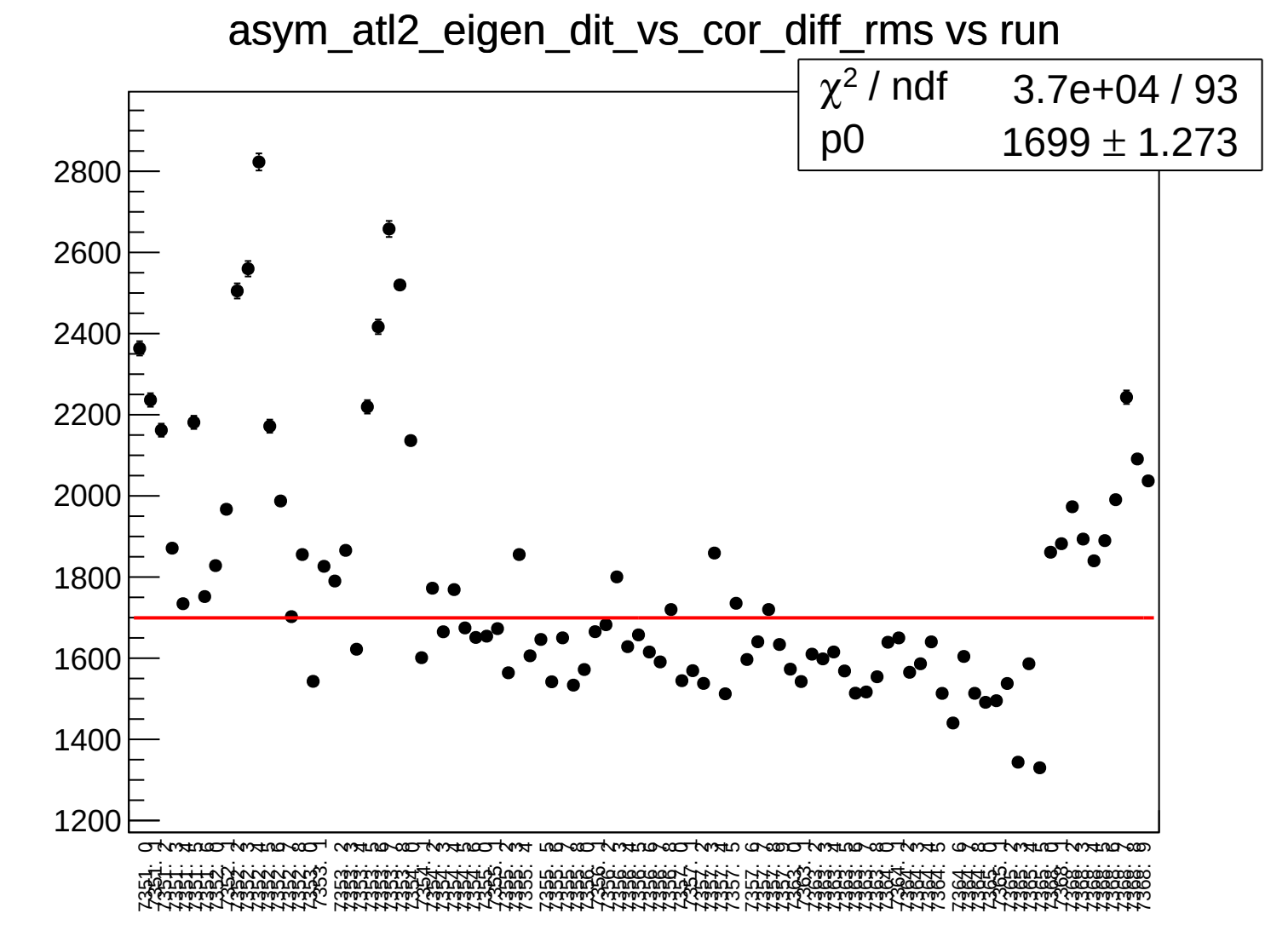

asym_atl2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 86.49 / 93
p0 7.577e−05 ± 2.113e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 94
Mean 65.54
Std Dev 0

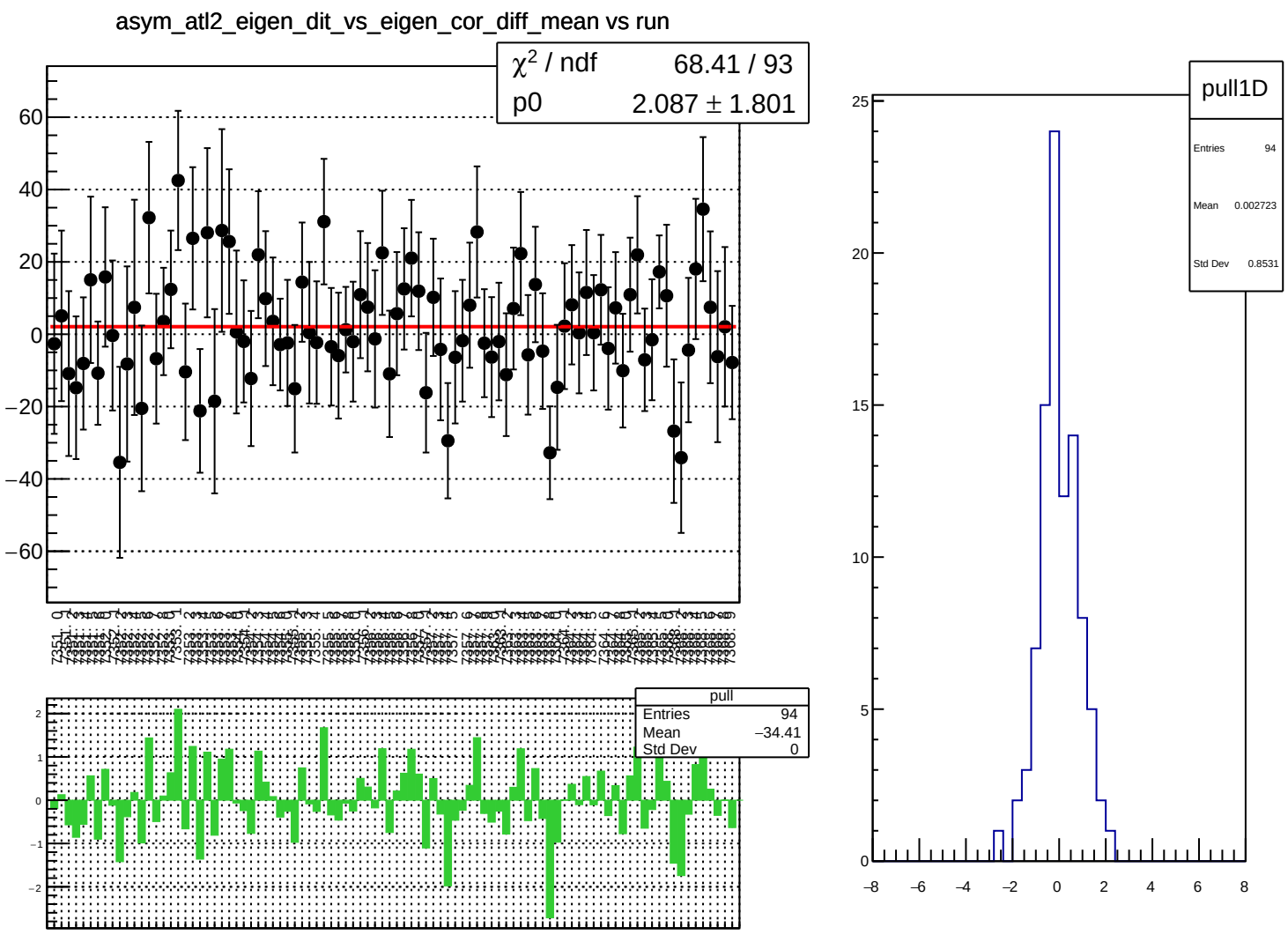

pull1D
Entries 94
Mean −0.07508
Std Dev 0.9563

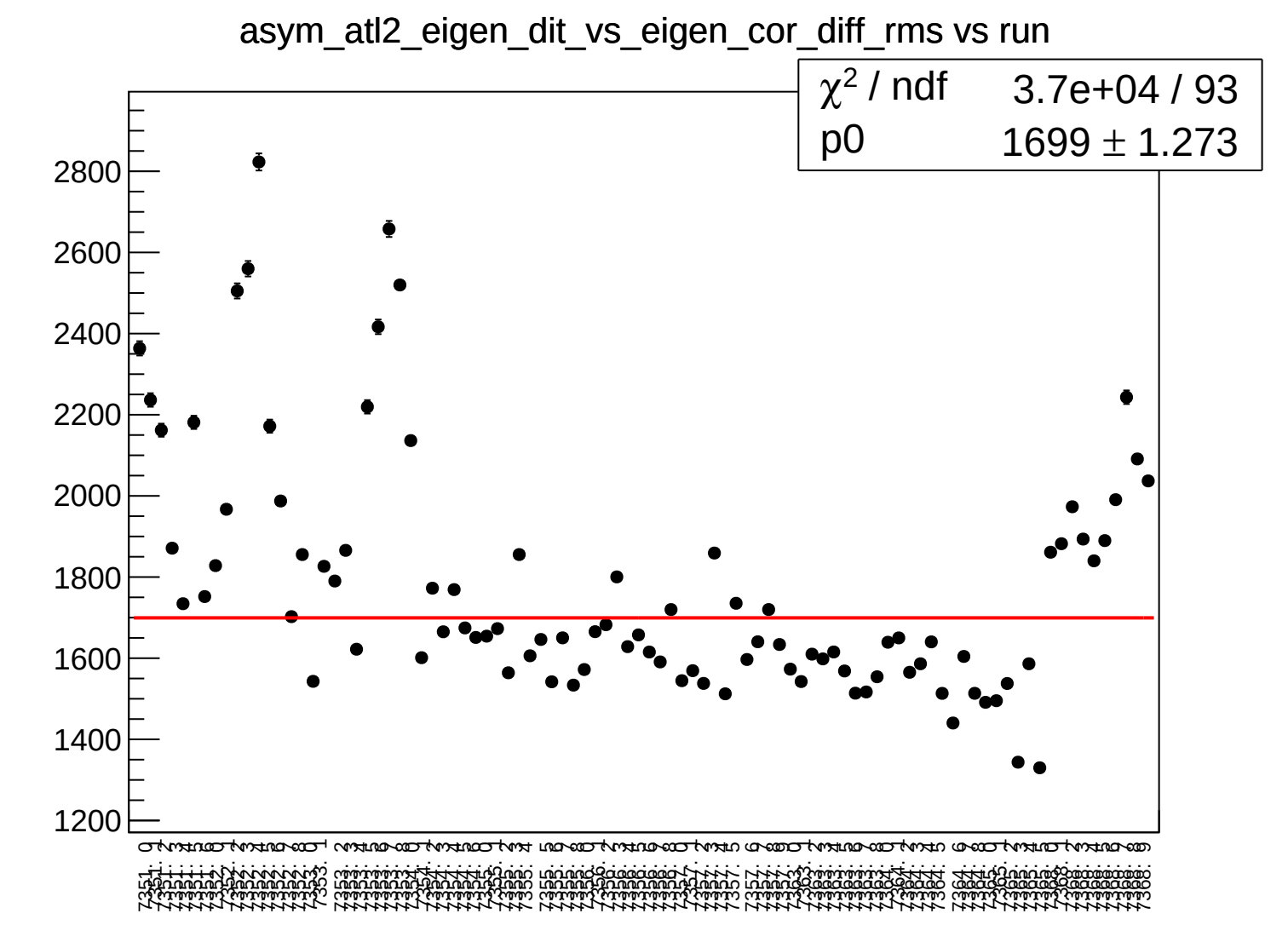

asym_atl2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.846e+05 / 93
p0 0.0166 ± 1.494e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

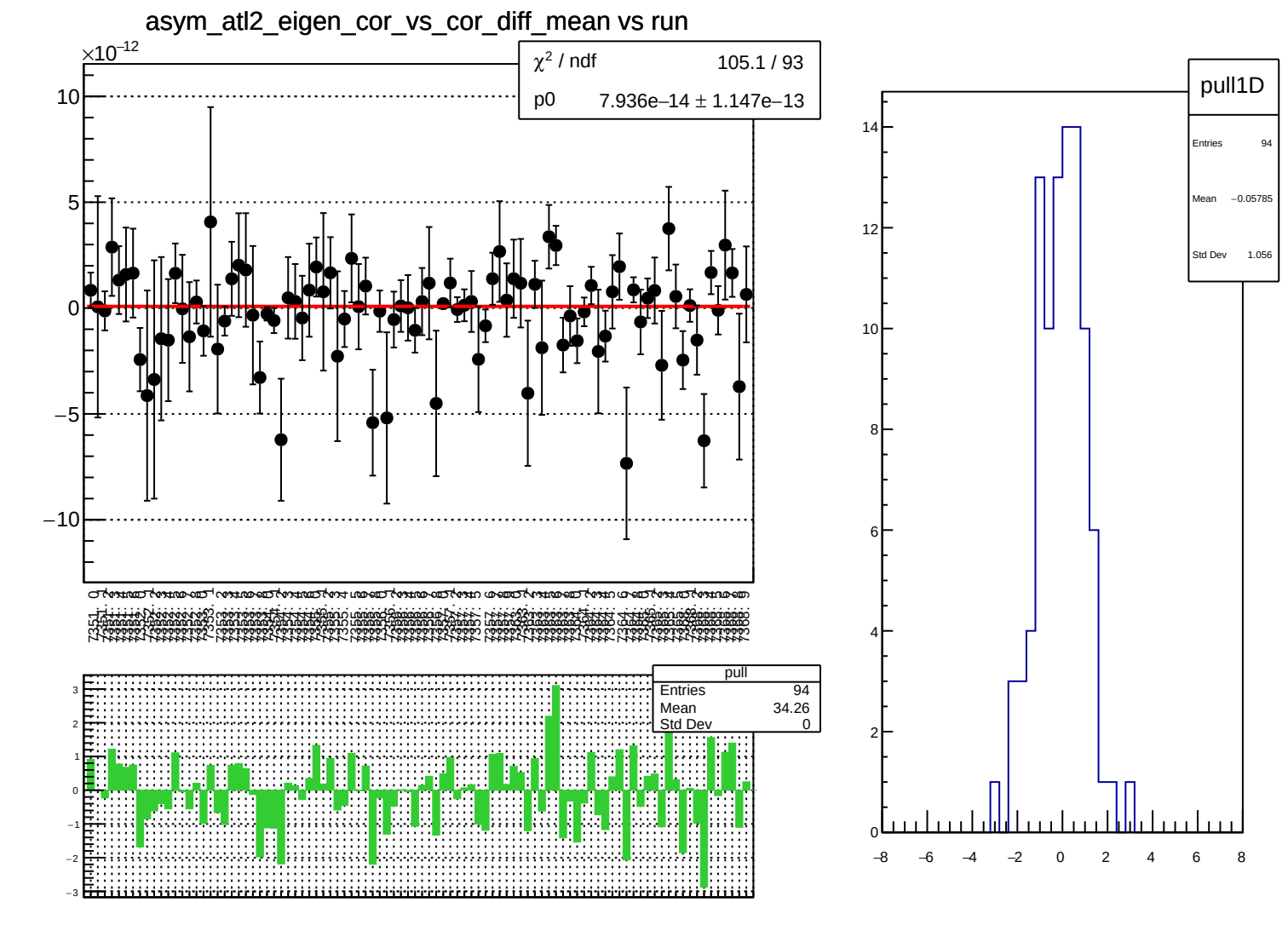

asym_atl2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 68.41 / 93
p0 2.087 ± 1.801
pull
Entries 94
Mean −34.41
Std Dev 0

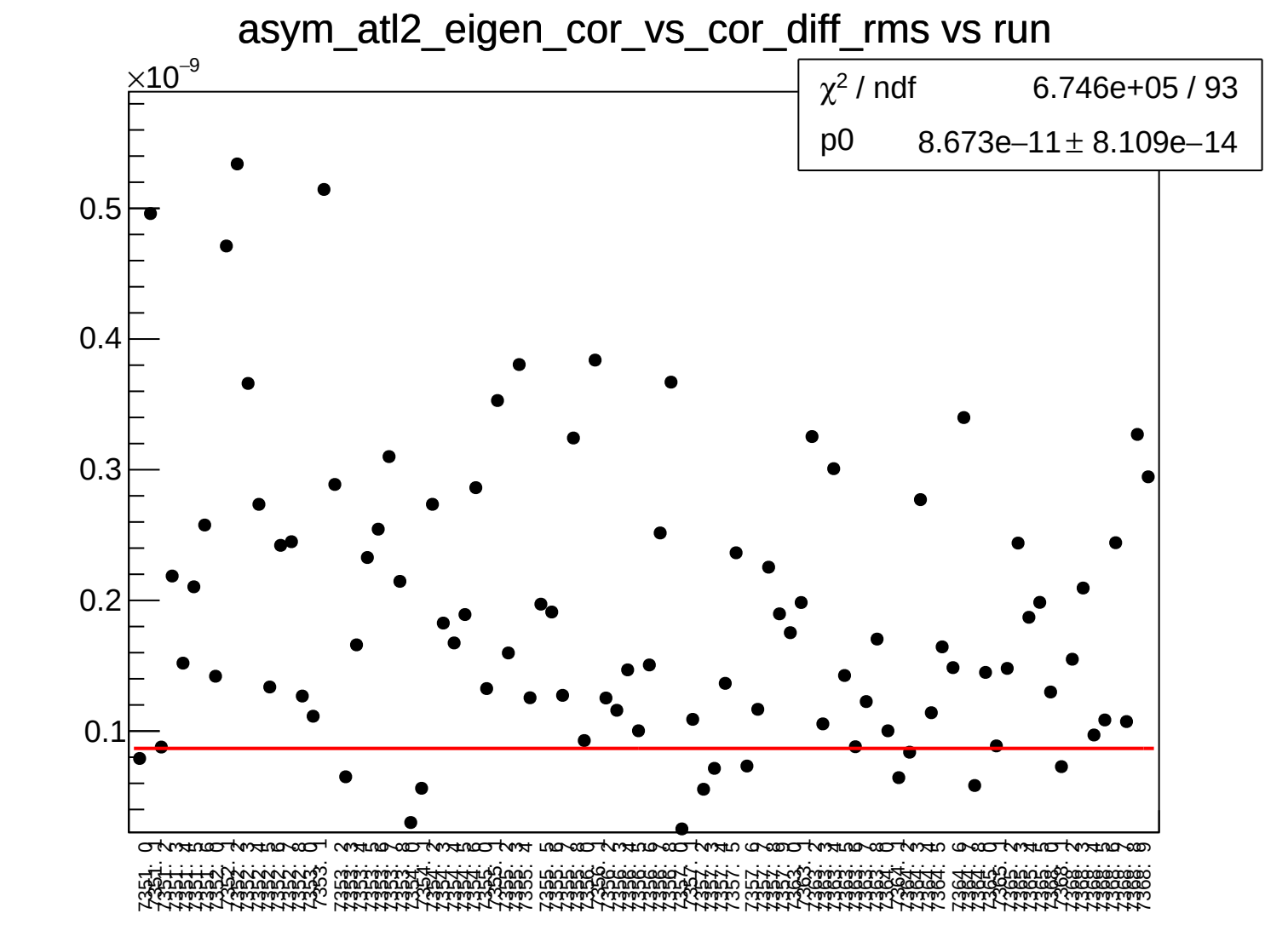

pull1D
Entries 94
Mean 0.002723
Std Dev 0.8531

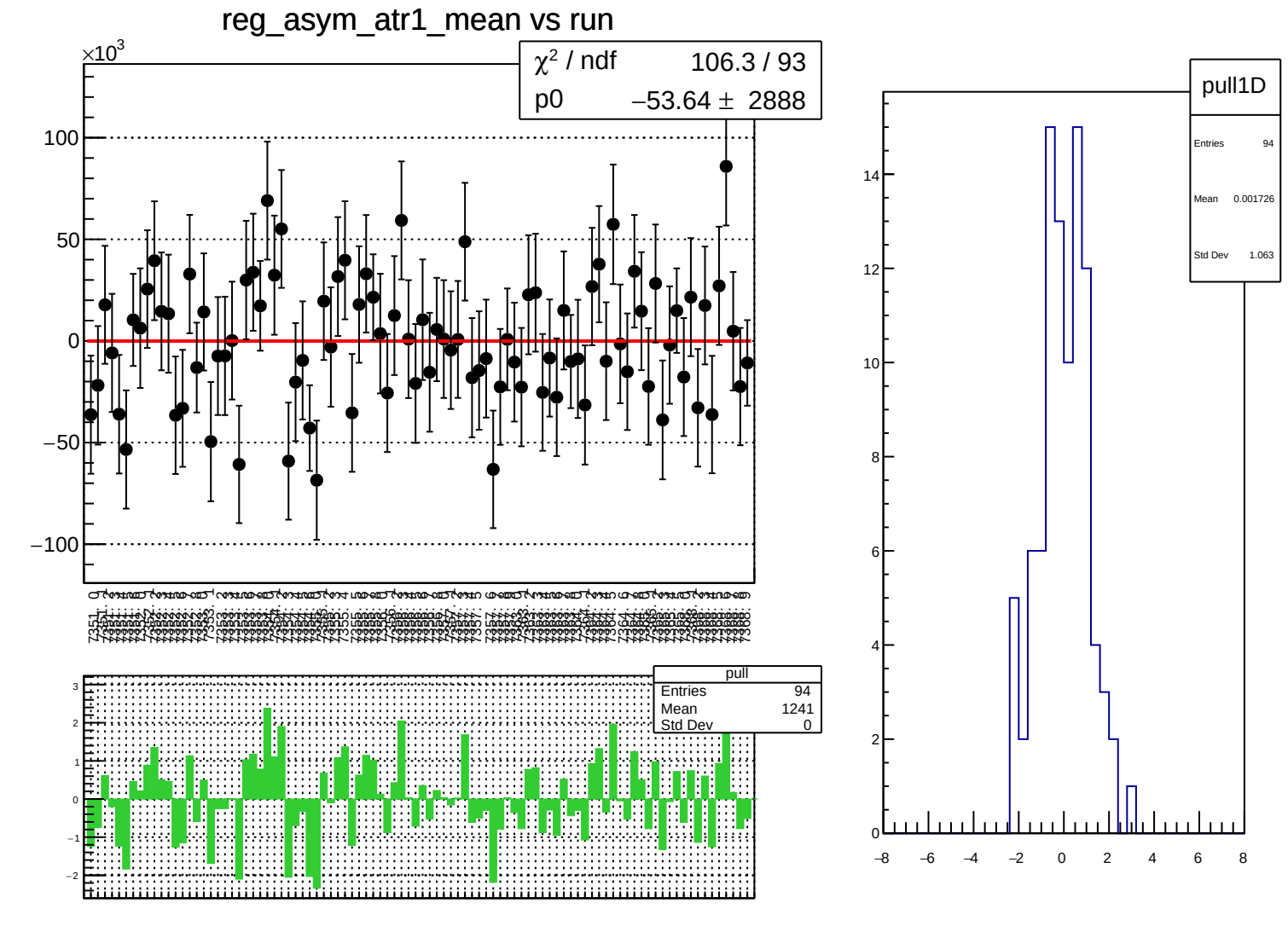

asym_atl2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.7e+04 / 93
p0 1699 ± 1.273
2800
2600
2400
2200
2000
1800
1600
1400
1200

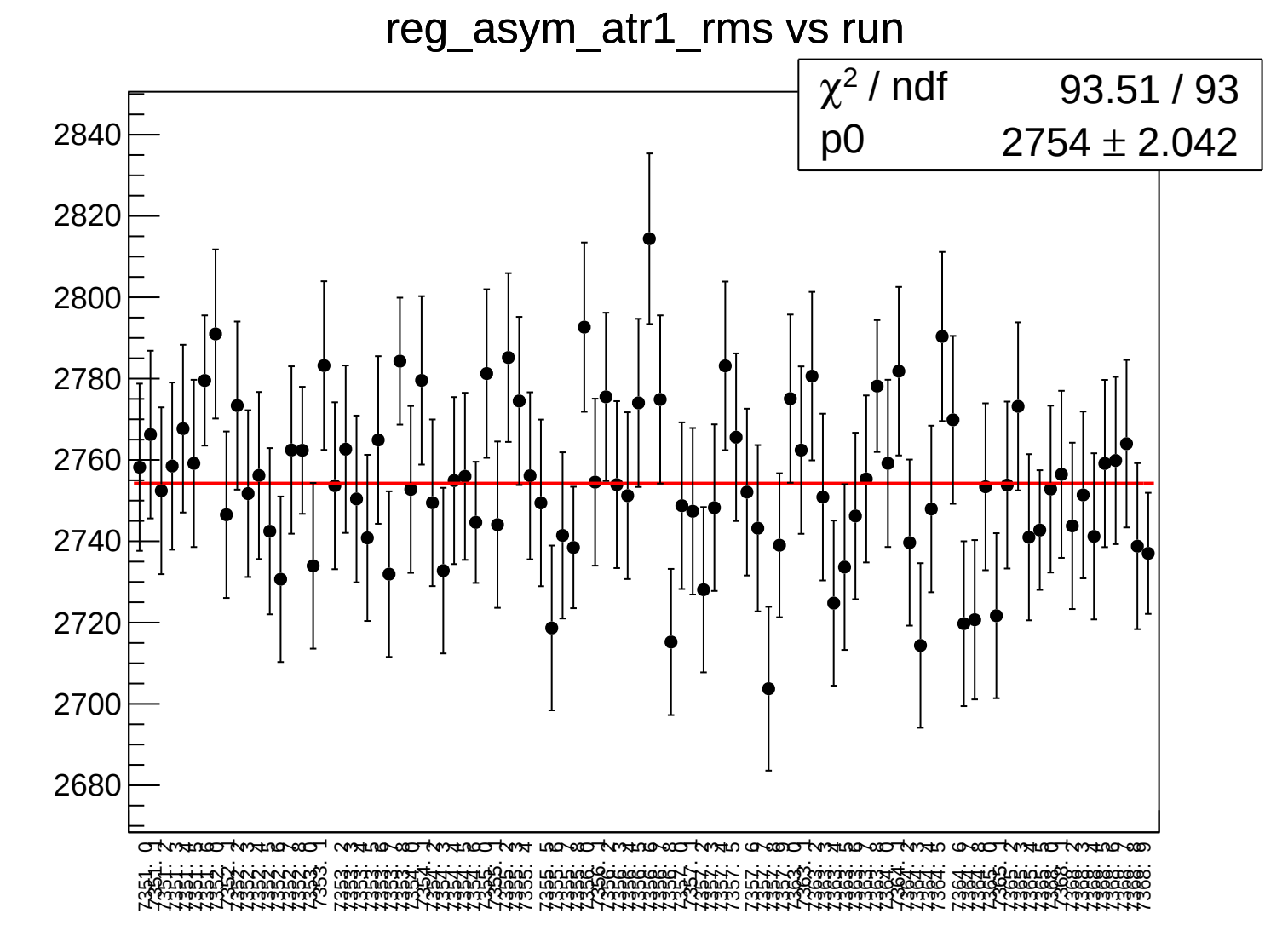

asym_atl2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.41 / 93
p0 2.087 ± 1.801
60
40
20
0
−20
−40
−60
pull
Entries 94
Mean −34.41
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.002723
Std Dev 0.8531
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

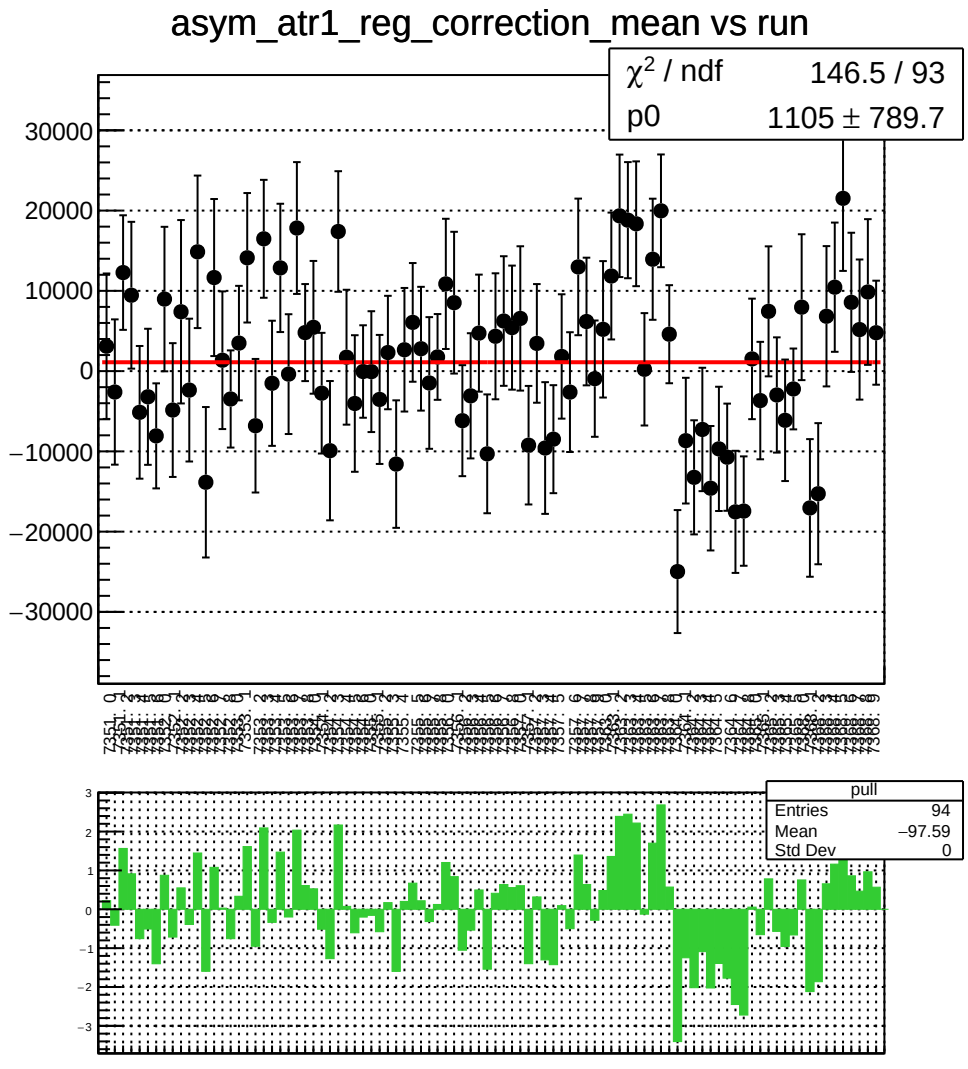

asym_atl2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.7e+04 / 93
p0 1699 ± 1.273
2800
2600
2400
2200
2000
1800
1600
1400
1200

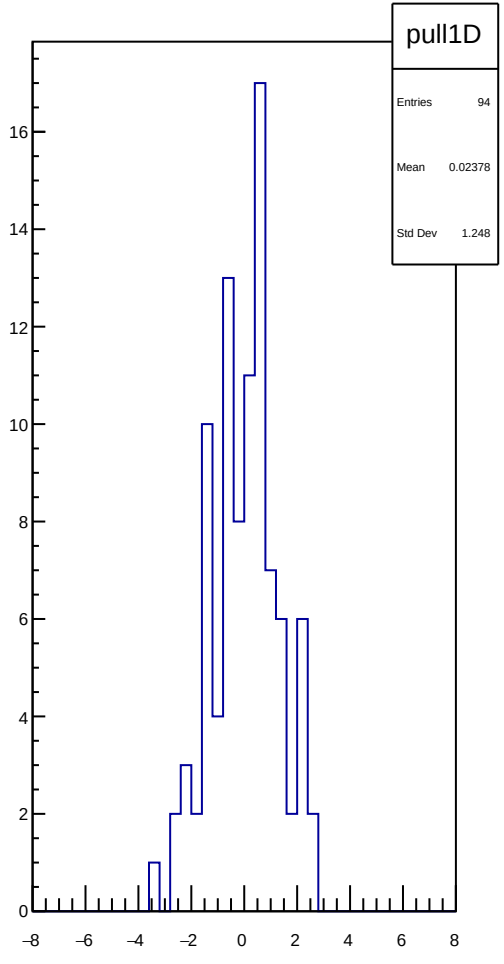

asym_atl2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 105.1 / 93
p0 7.936e−14 ± 1.147e−13
10
5
0
−5
−10
pull
Entries 94
Mean 34.26
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.05785
Std Dev 1.056
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

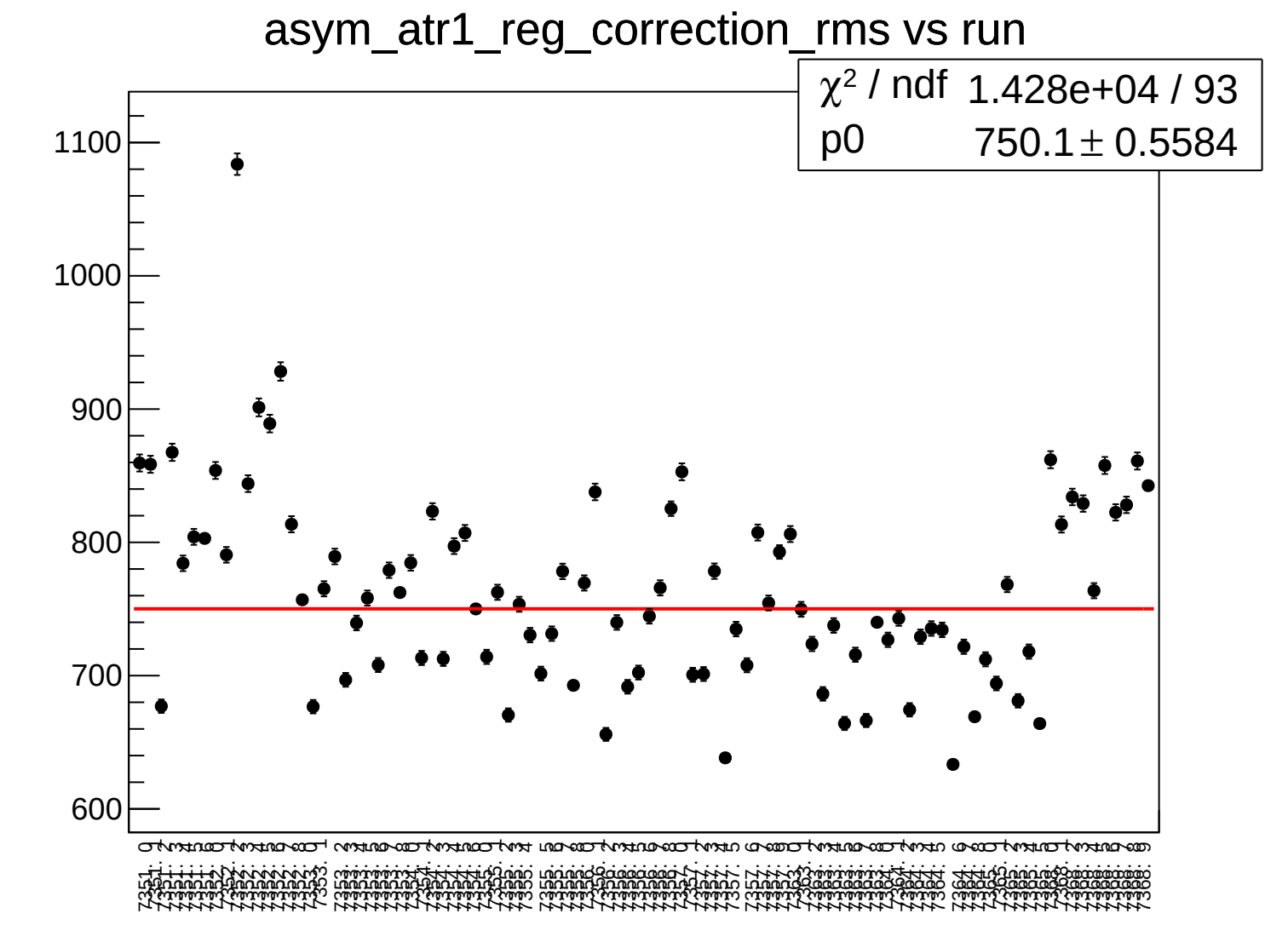

asym_atl2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.746e+05 / 93
p0 8.673e−11 ± 8.109e−14
0.5
0.4
0.3
0.2
0.1

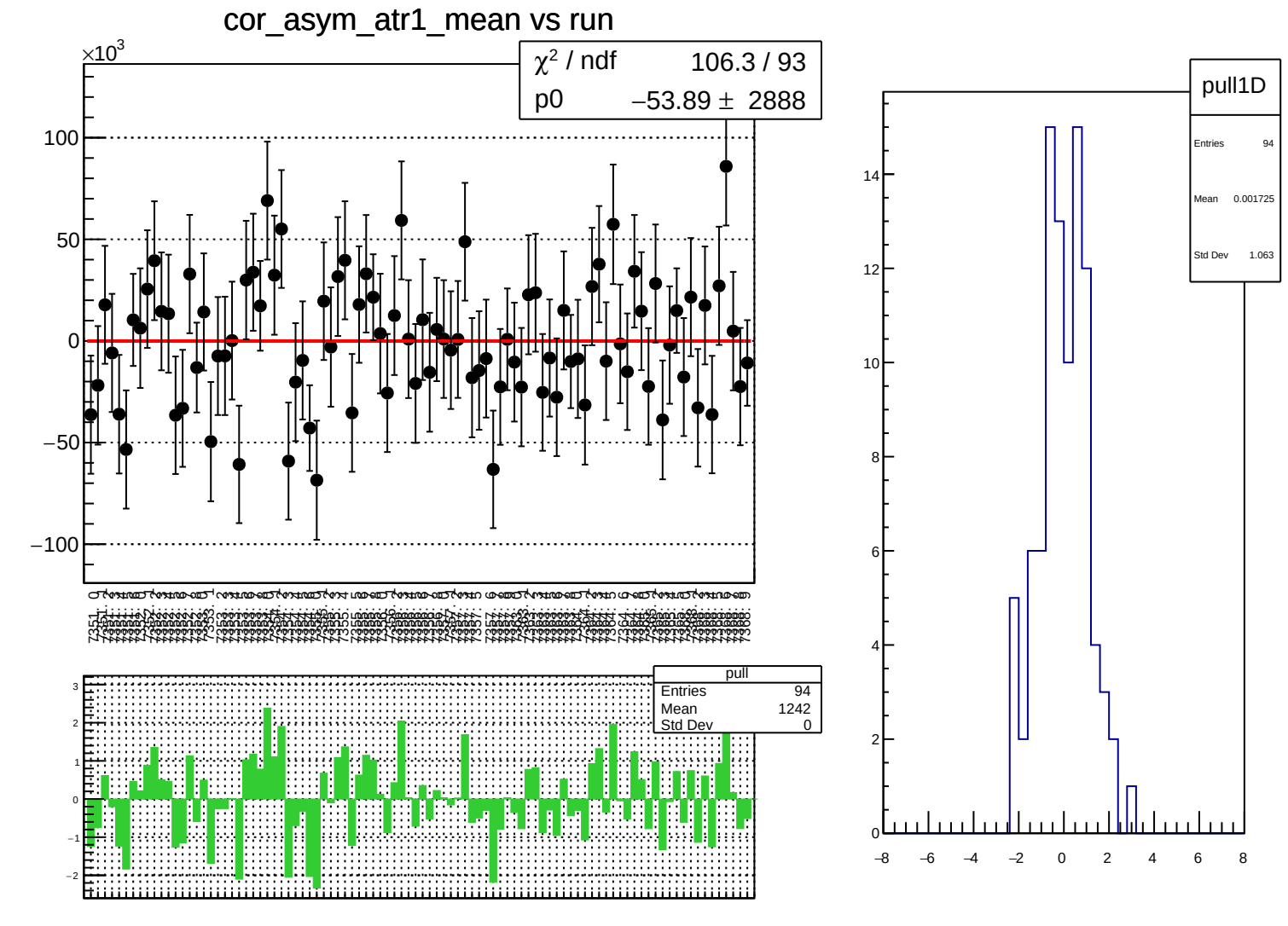

reg_asym_atr1_mean vs run
×10^3
χ² / ndf 106.3 / 93
p0 −53.64 ± 2888
100
50
0
−50
−100
pull
Entries 94
Mean 1241
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.001726
Std Dev 1.063
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

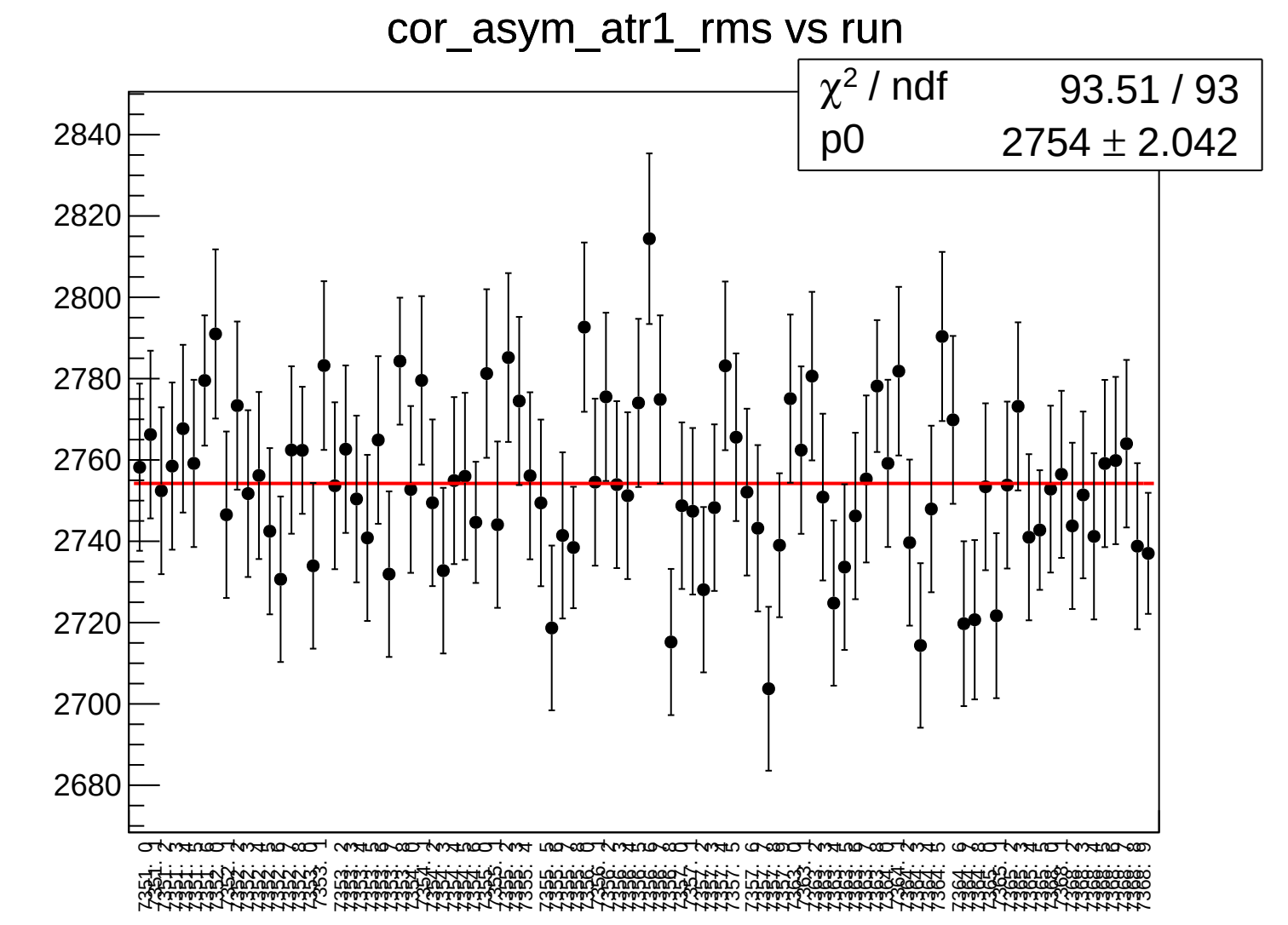

reg_asym_atr1_rms vs run
χ^2 / ndf 93.51 / 93
p0 2754 ± 2.042
2840
2820
2800
2780
2760
2740
2720
2700
2680

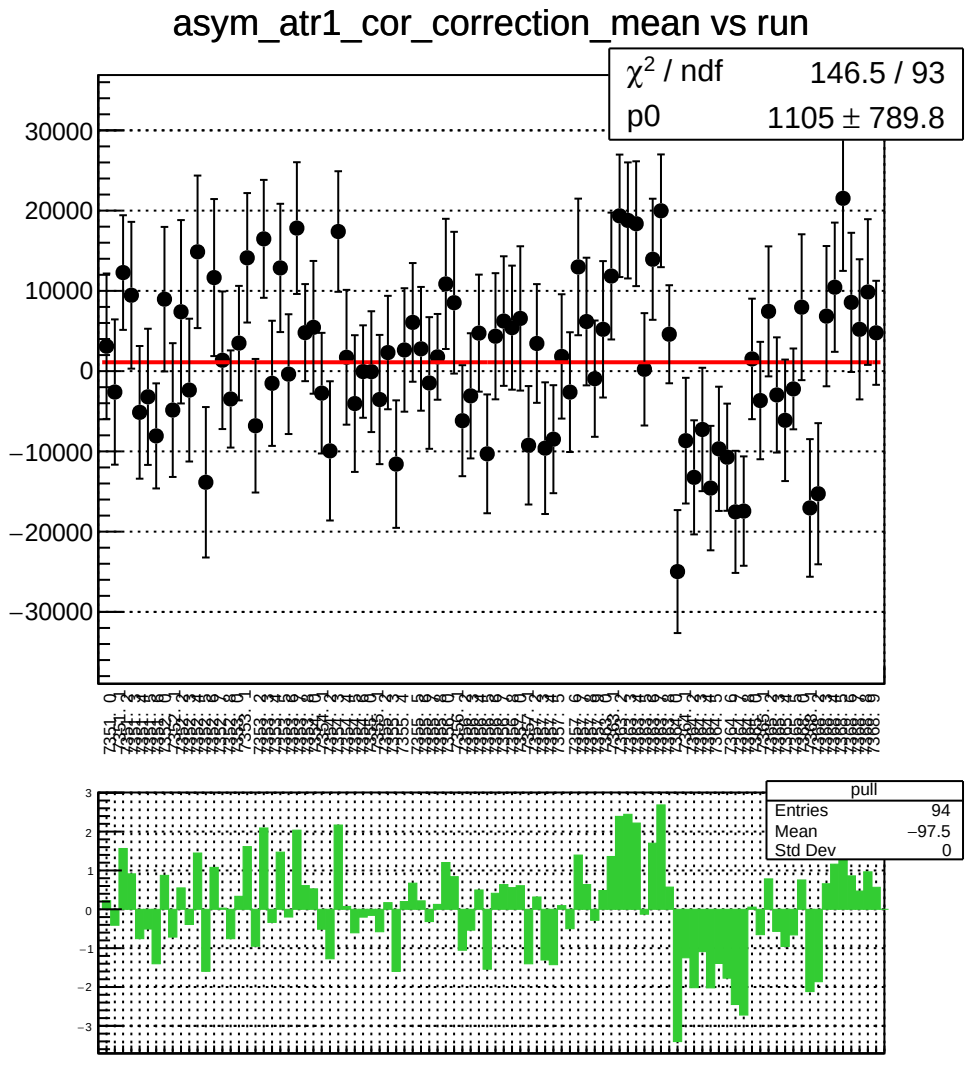

asym_atr1_reg_correction_mean vs run
χ² / ndf 146.5 / 93
p0 1105 ± 789.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −97.59
Std Dev 0
3
2
1
0
−1
−2
−3

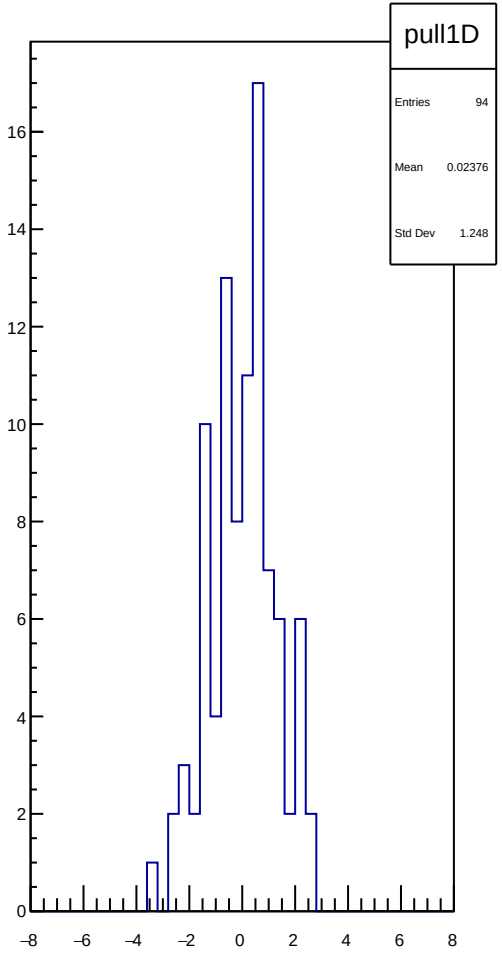

pull1D
Entries 94
Mean 0.02378
Std Dev 1.248
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

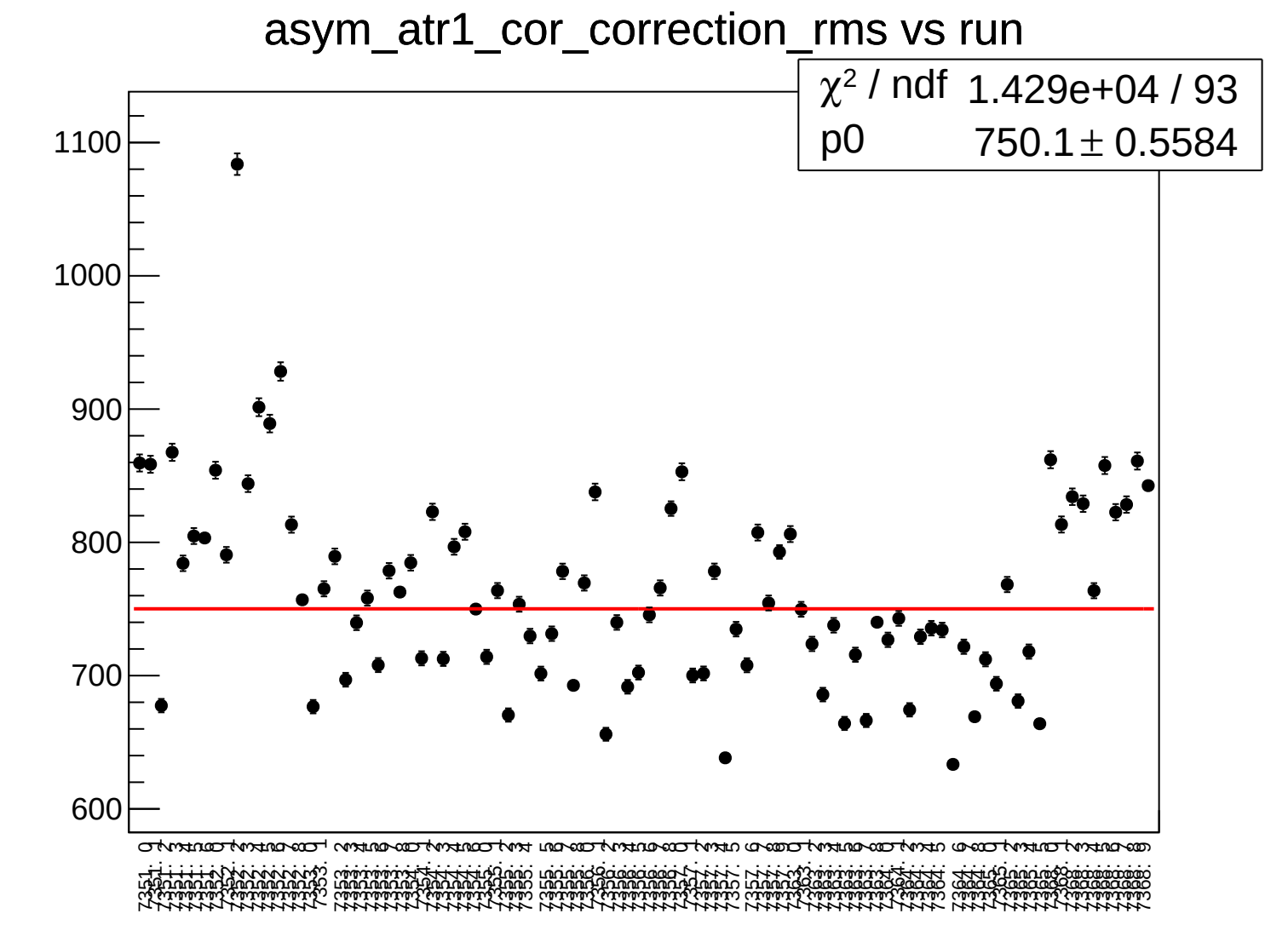

asym_atr1_reg_correction_rms vs run
χ² / ndf 1.428e+04 / 93
p0 750.1 ± 0.5584
1100
1000
900
800
700
600

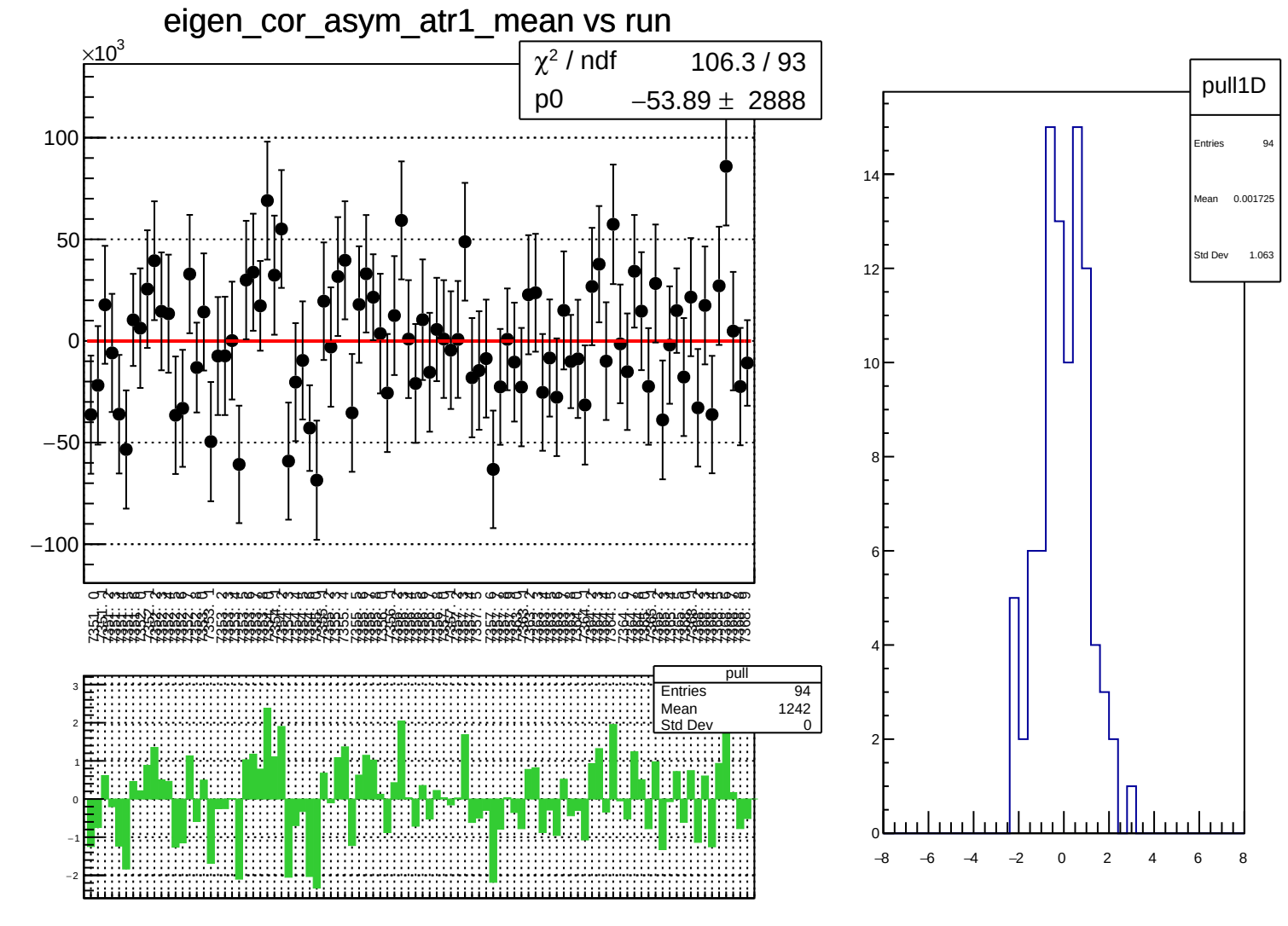

cor_asym_atr1_mean vs run
×10^3
χ² / ndf 106.3 / 93
p0 −53.89 ± 2888
100
50
0
−50
−100
pull
Entries 94
Mean 1242
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.001725
Std Dev 1.063
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

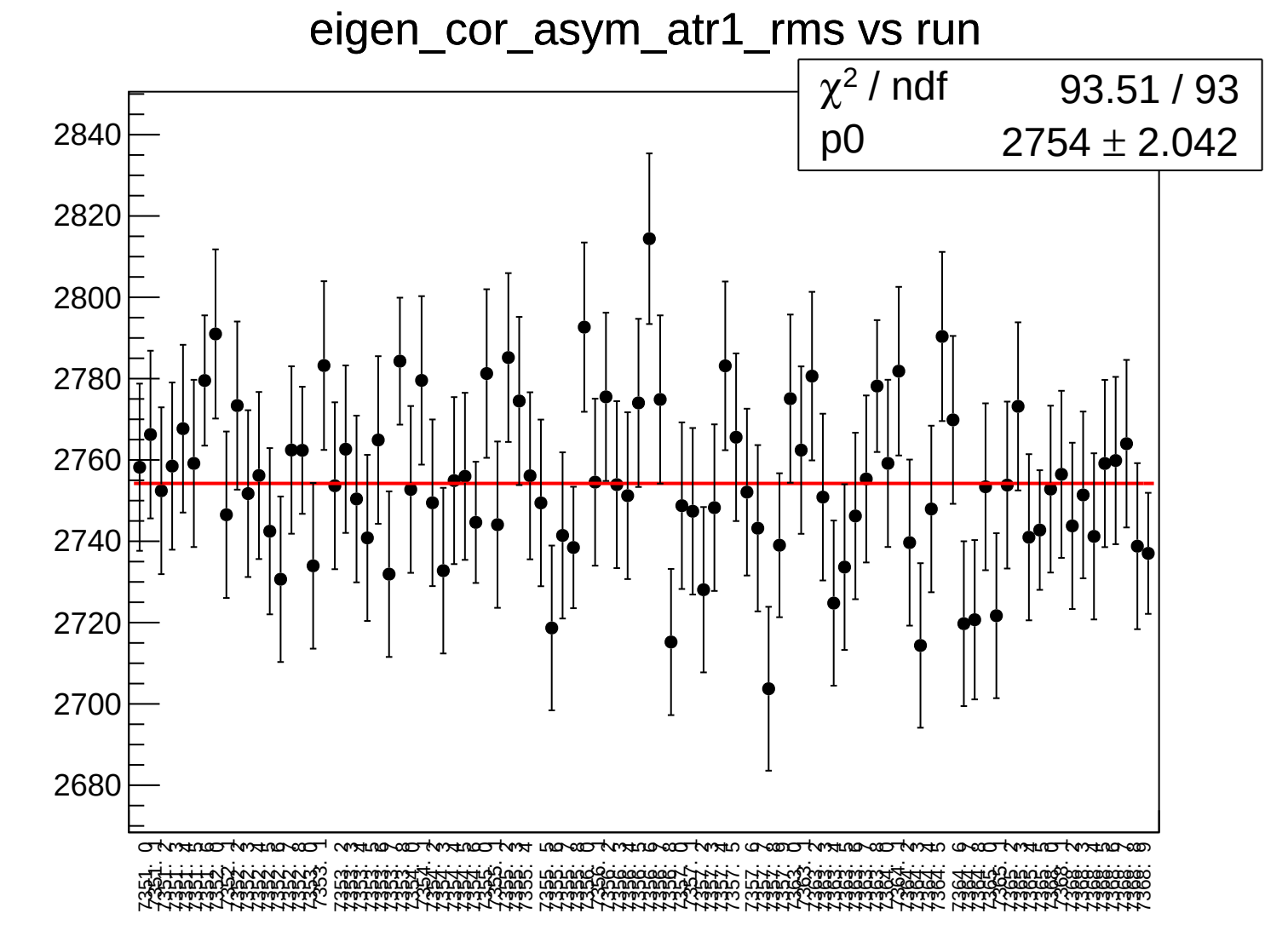

cor_asym_atr1_rms vs run
χ^2 / ndf 93.51 / 93
p0 2754 ± 2.042
2840
2820
2800
2780
2760
2740
2720
2700
2680

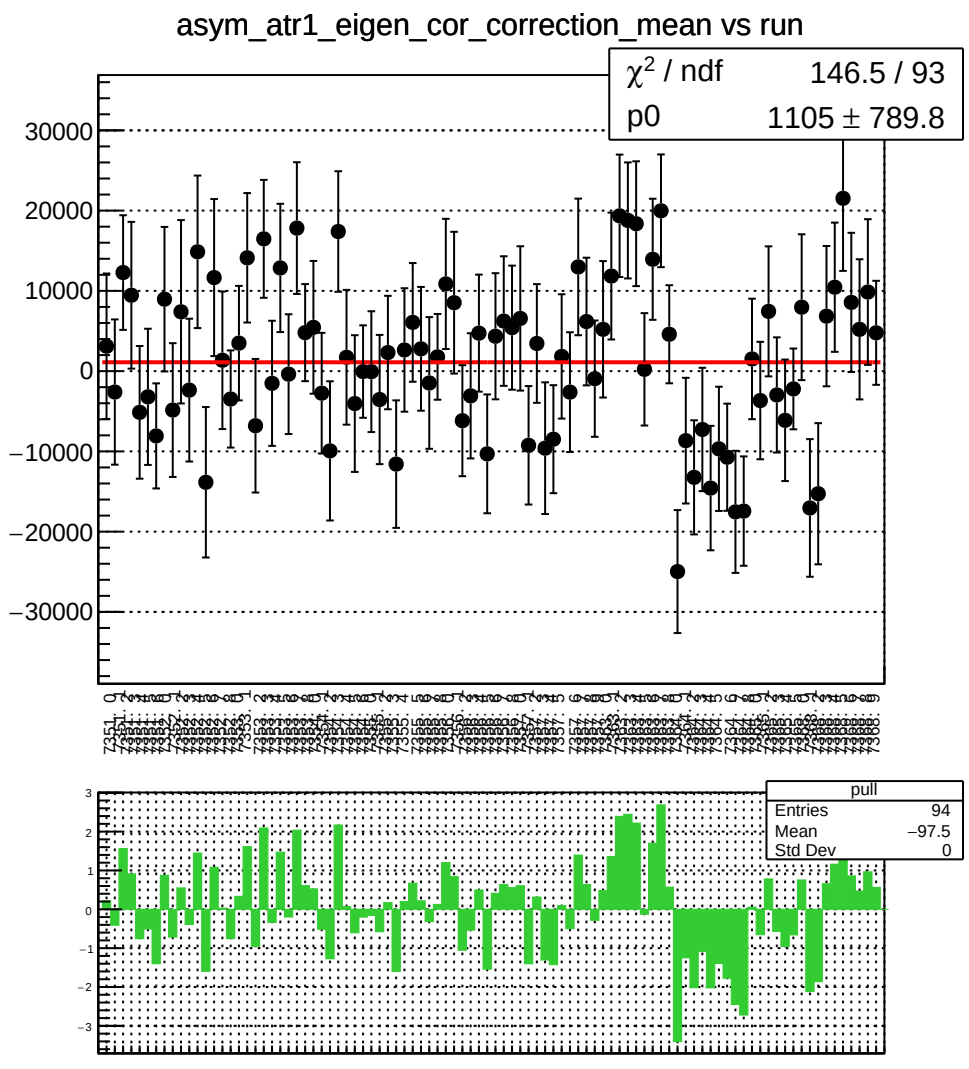

asym_atr1_cor_correction_mean vs run
χ² / ndf 146.5 / 93
p0 1105 ± 789.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −97.5
Std Dev 0
3
2
1
0
−1
−2
−3

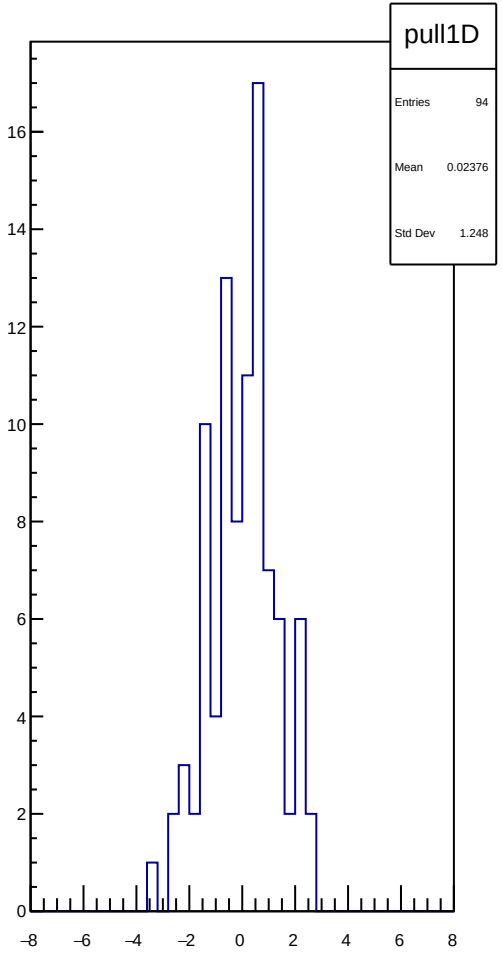

pull1D
Entries 94
Mean 0.02376
Std Dev 1.248
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

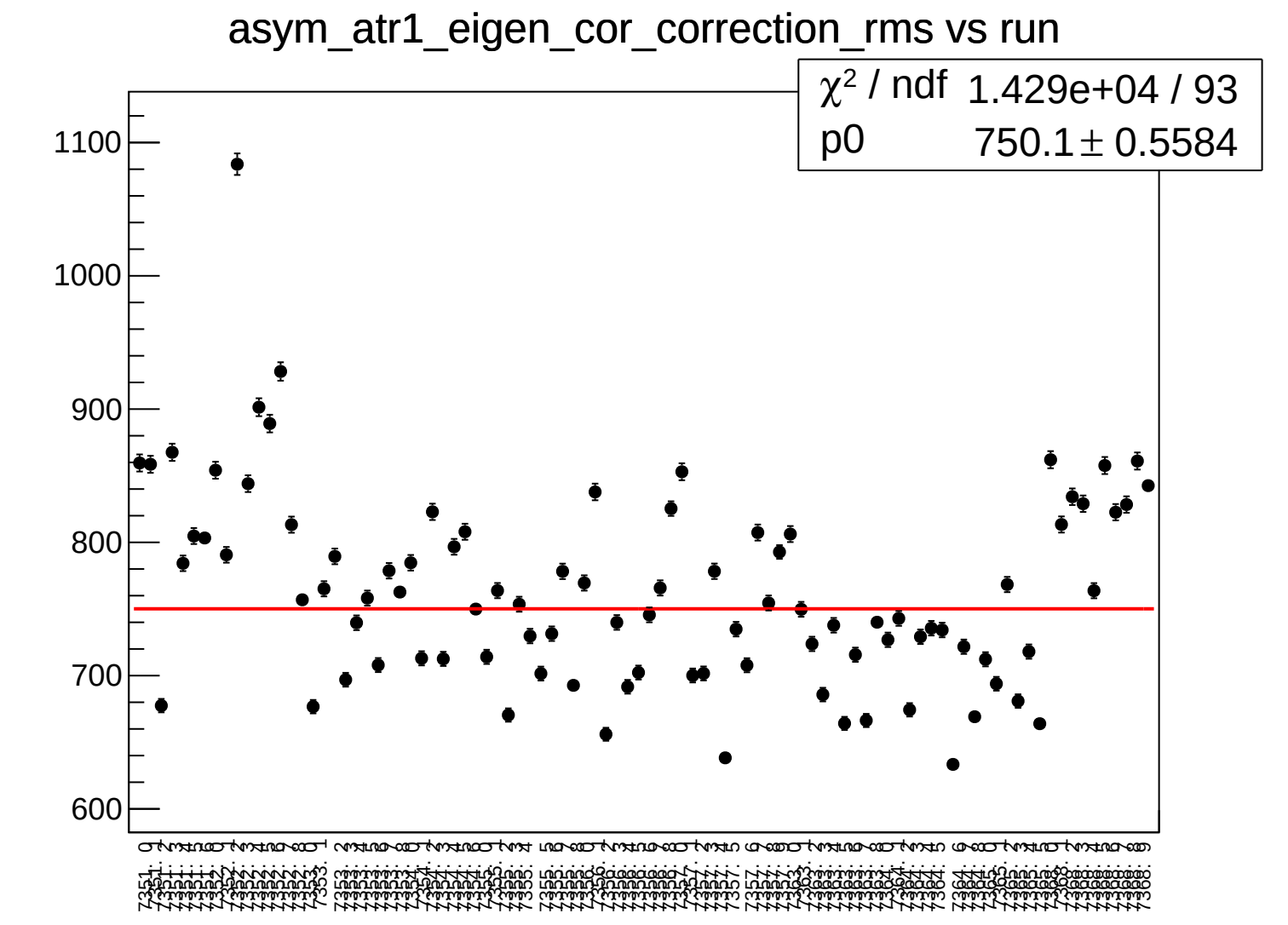

asym_atr1_cor_correction_rms vs run
χ² / ndf 1.429e+04 / 93
p0 750.1 ± 0.5584
1100
1000
900
800
700
600

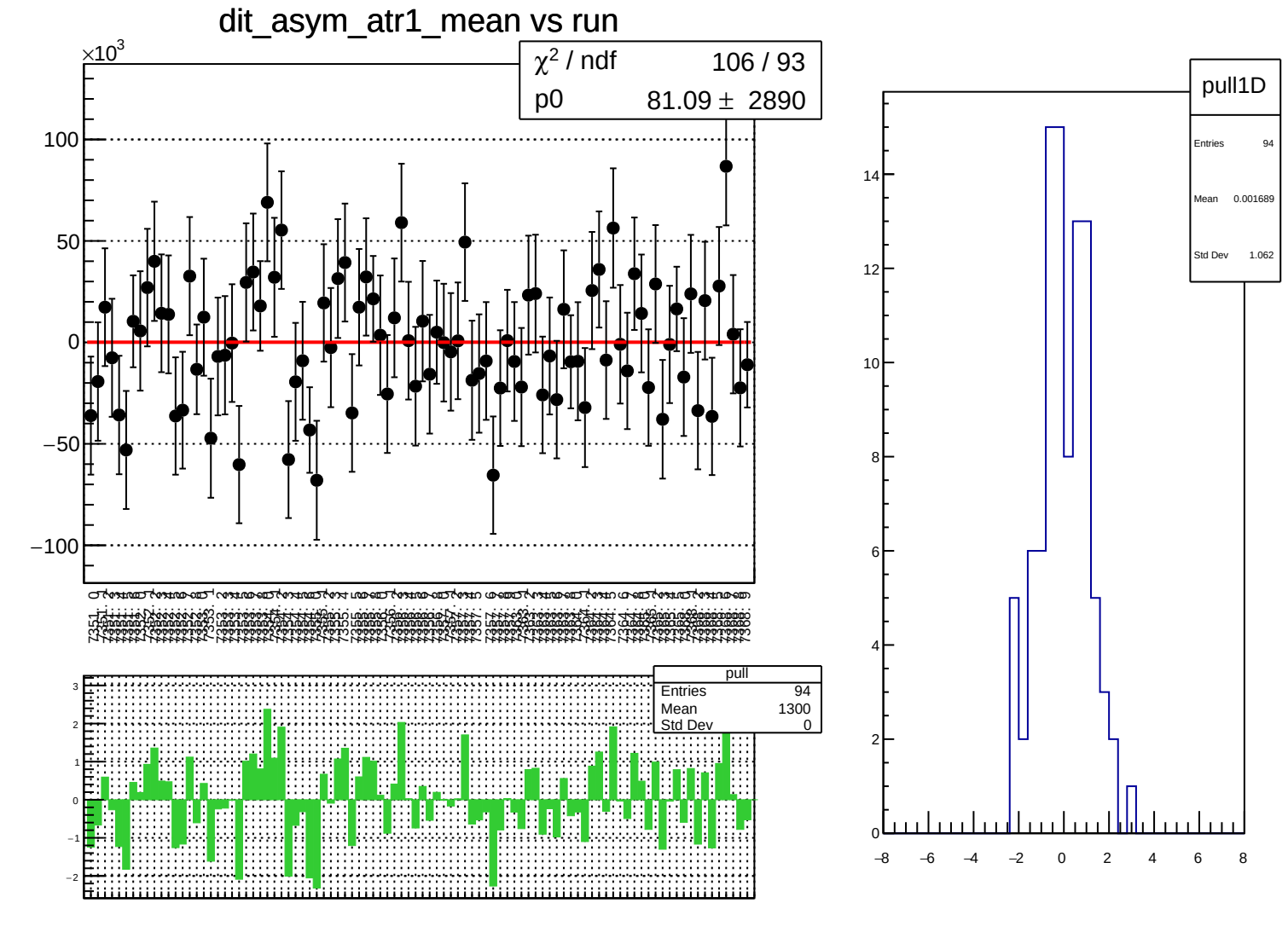

eigen_cor_asym_atr1_mean vs run
×10^3
χ² / ndf 106.3 / 93
p0 −53.89 ± 2888
100
50
0
−50
−100
pull
Entries 94
Mean 1242
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.001725
Std Dev 1.063
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

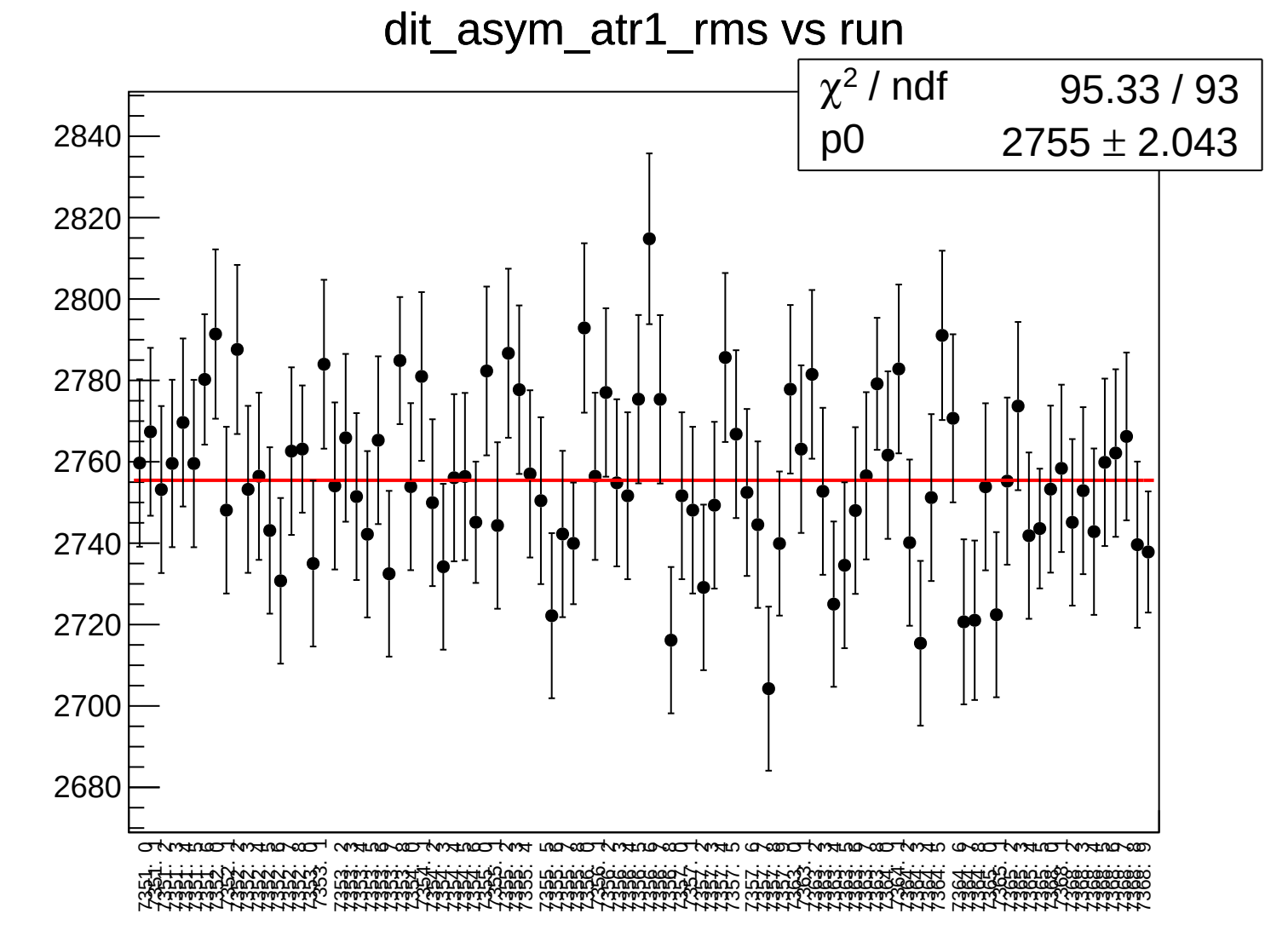

eigen_cor_asym_atr1_rms vs run
χ² / ndf 93.51 / 93
p0 2754 ± 2.042
2840
2820
2800
2780
2760
2740
2720
2700
2680

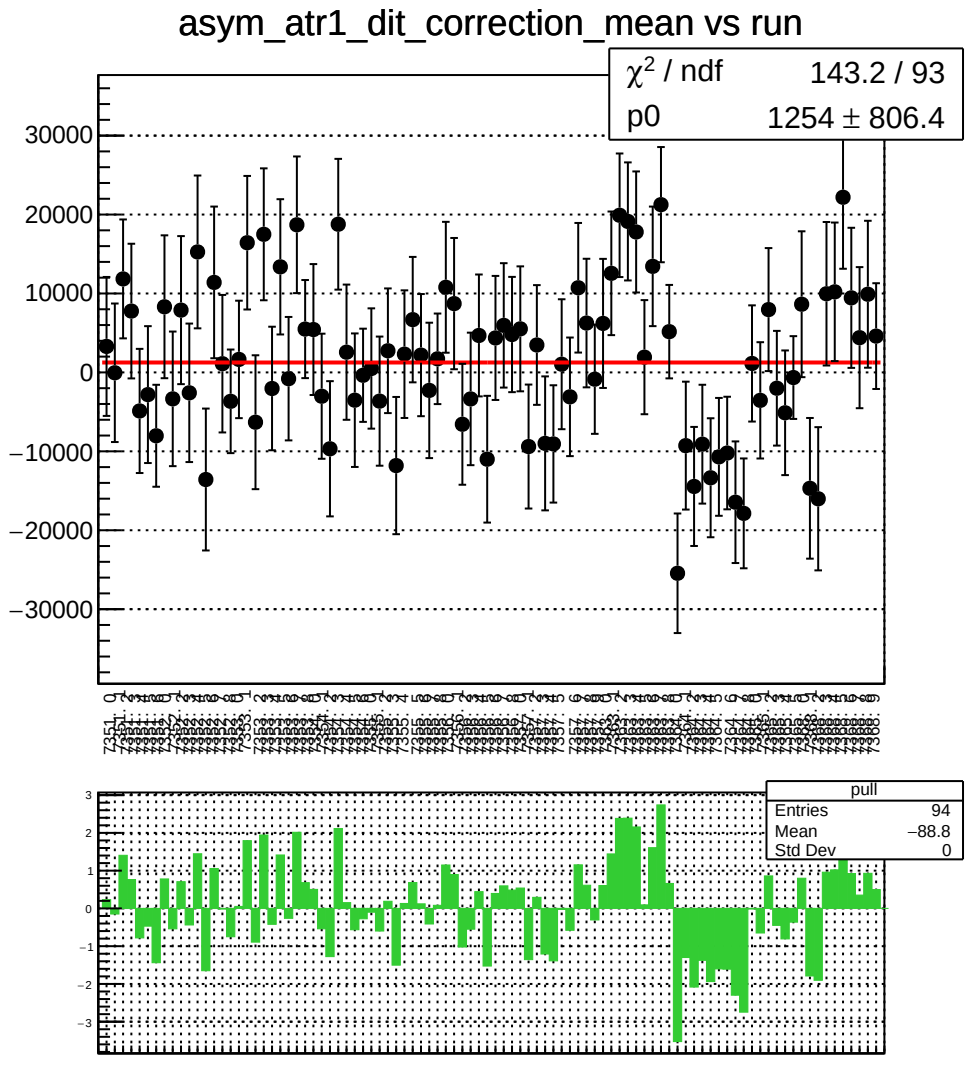

asym_atr1_eigen_cor_correction_mean vs run
χ² / ndf 146.5 / 93
p0 1105 ± 789.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −97.5
Std Dev 0
3
2
1
0
−1
−2
−3

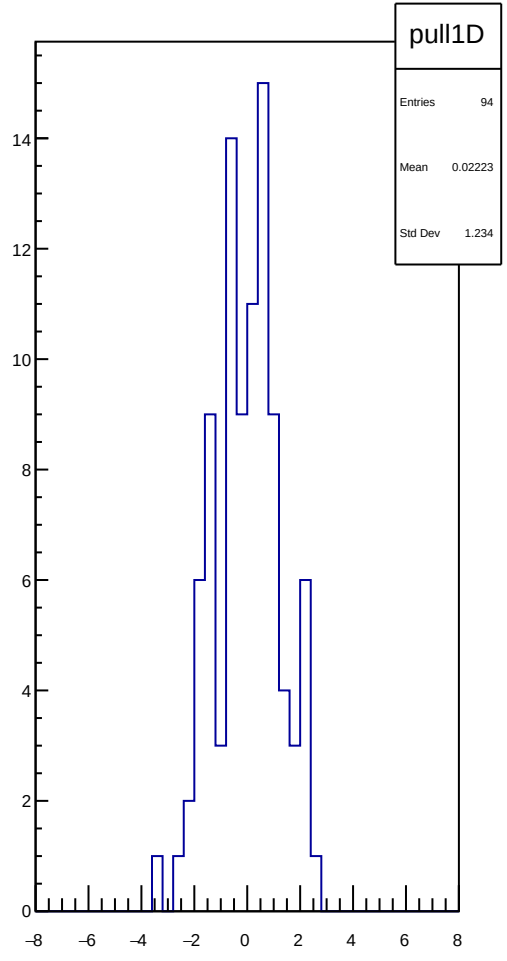

pull1D
Entries 94
Mean 0.02376
Std Dev 1.248
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

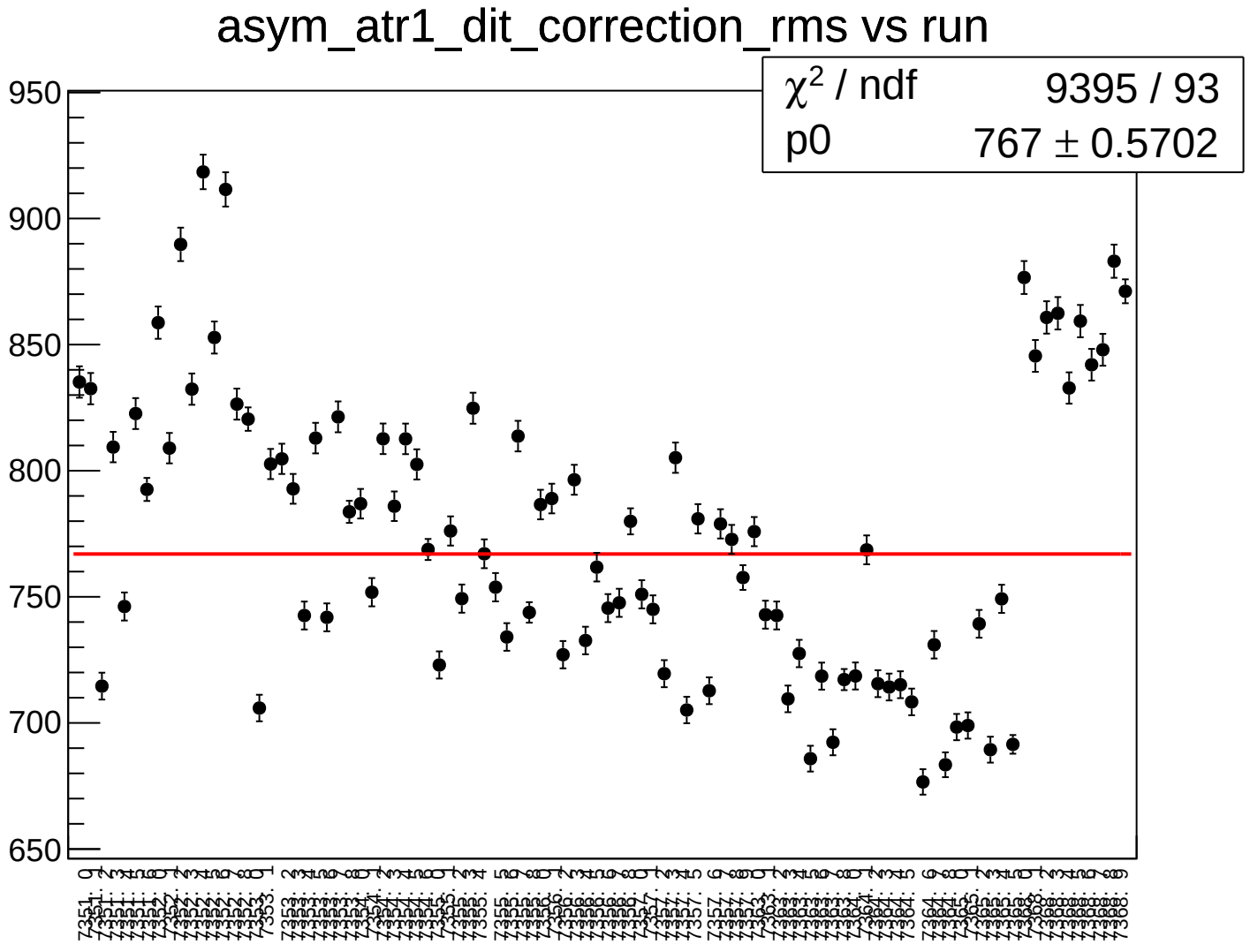

asym_atr1_eigen_cor_correction_rms vs run
χ² / ndf 1.429e+04 / 93
p0 750.1 ± 0.5584
1100
1000
900
800
700
600

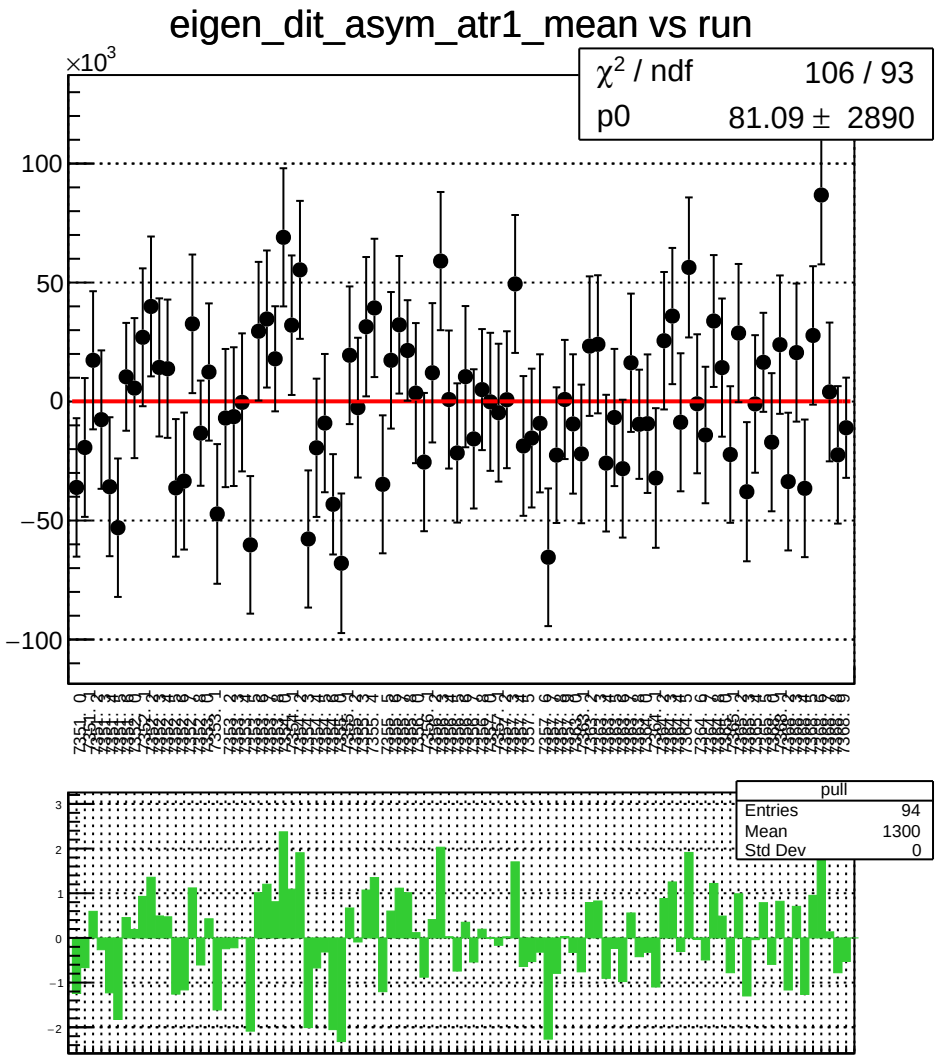

dit_asym_atr1_mean vs run
×10^3
χ^2 / ndf 106 / 93
p0 81.09 ± 2890
100
50
0
−50
−100
pull
Entries 94
Mean 1300
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.001689
Std Dev 1.062
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

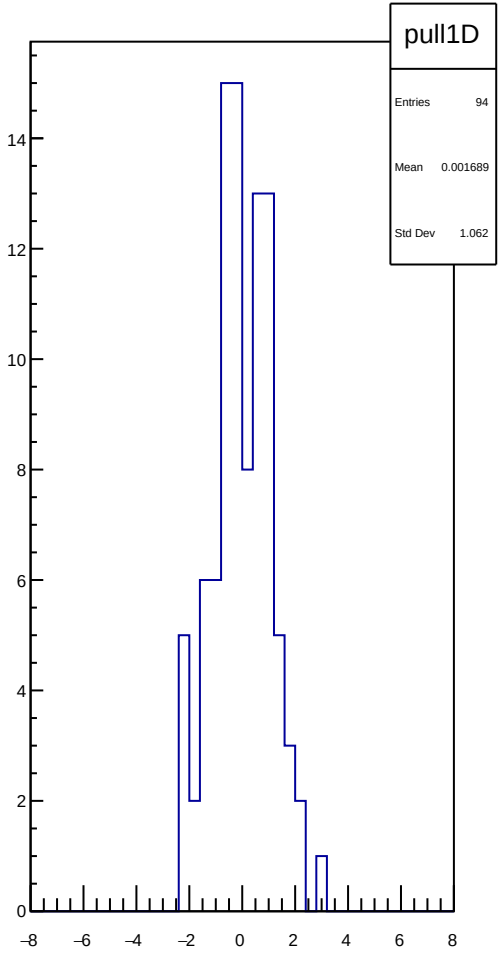

dit_asym_atr1_rms vs run
χ^2 / ndf 95.33 / 93
p0 2755 ± 2.043
2840
2820
2800
2780
2760
2740
2720
2700
2680

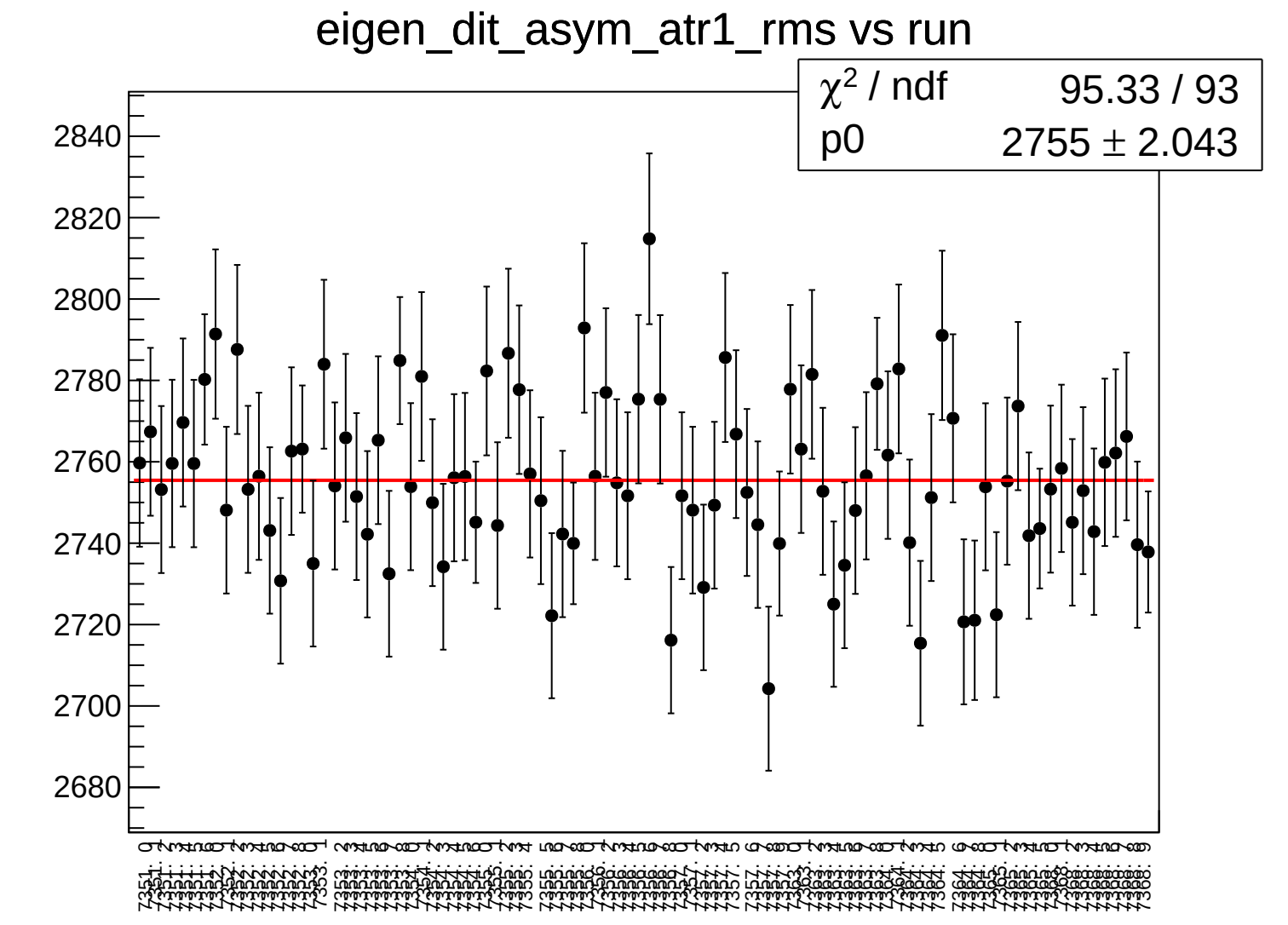

asym_atr1_dit_correction_mean vs run
χ² / ndf 143.2 / 93
p0 1254 ± 806.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −88.8
Std Dev 0
3
2
1
0
−1
−2
−3

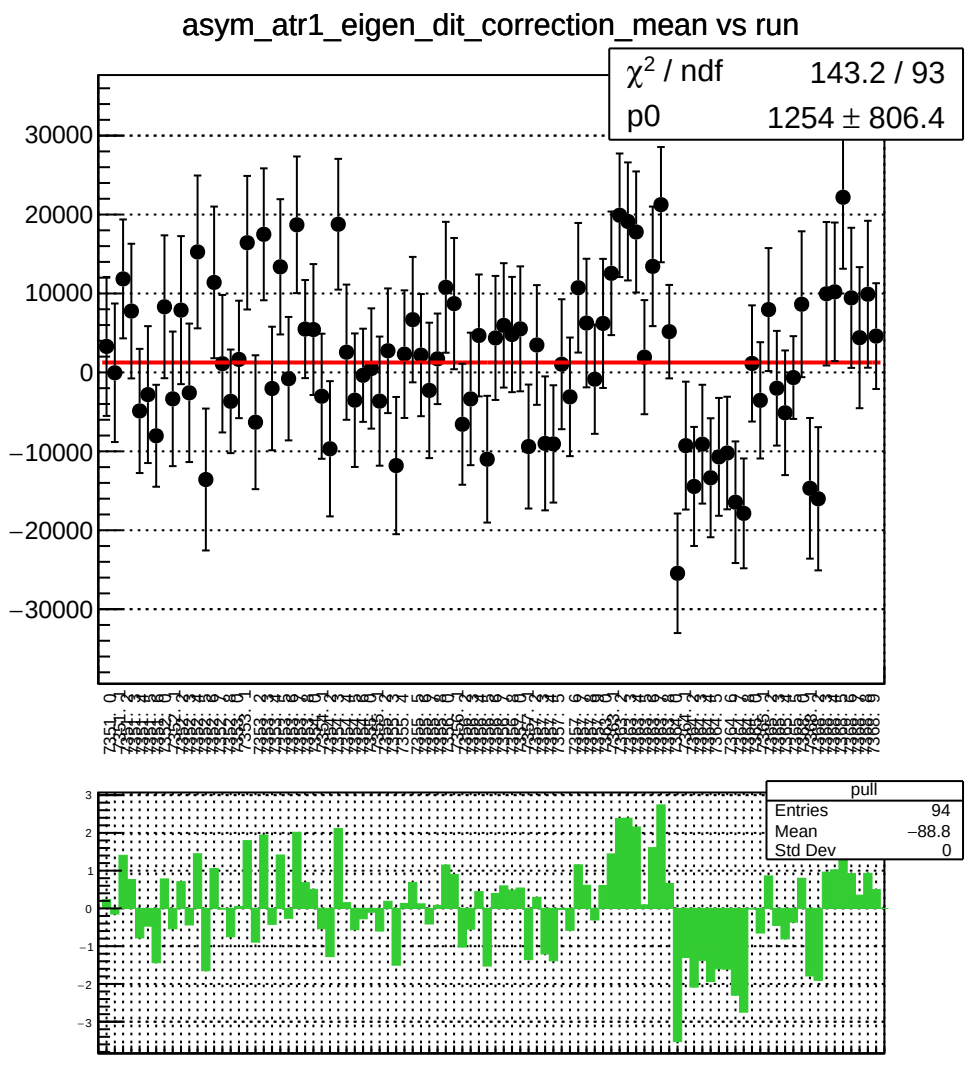

pull1D
Entries 94
Mean 0.02223
Std Dev 1.234
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

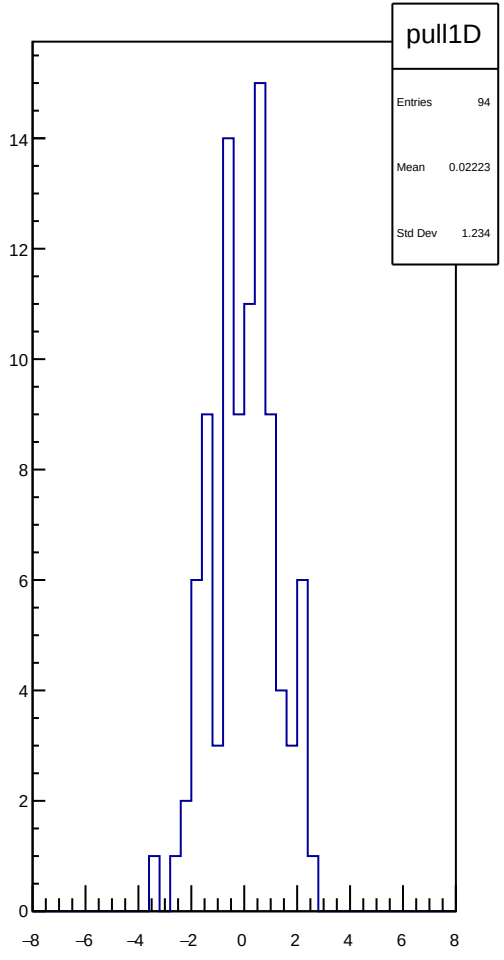

asym_atr1_dit_correction_rms vs run
χ^2 / ndf 9395 / 93
p0 767 ± 0.5702
950
900
850
800
750
700
650

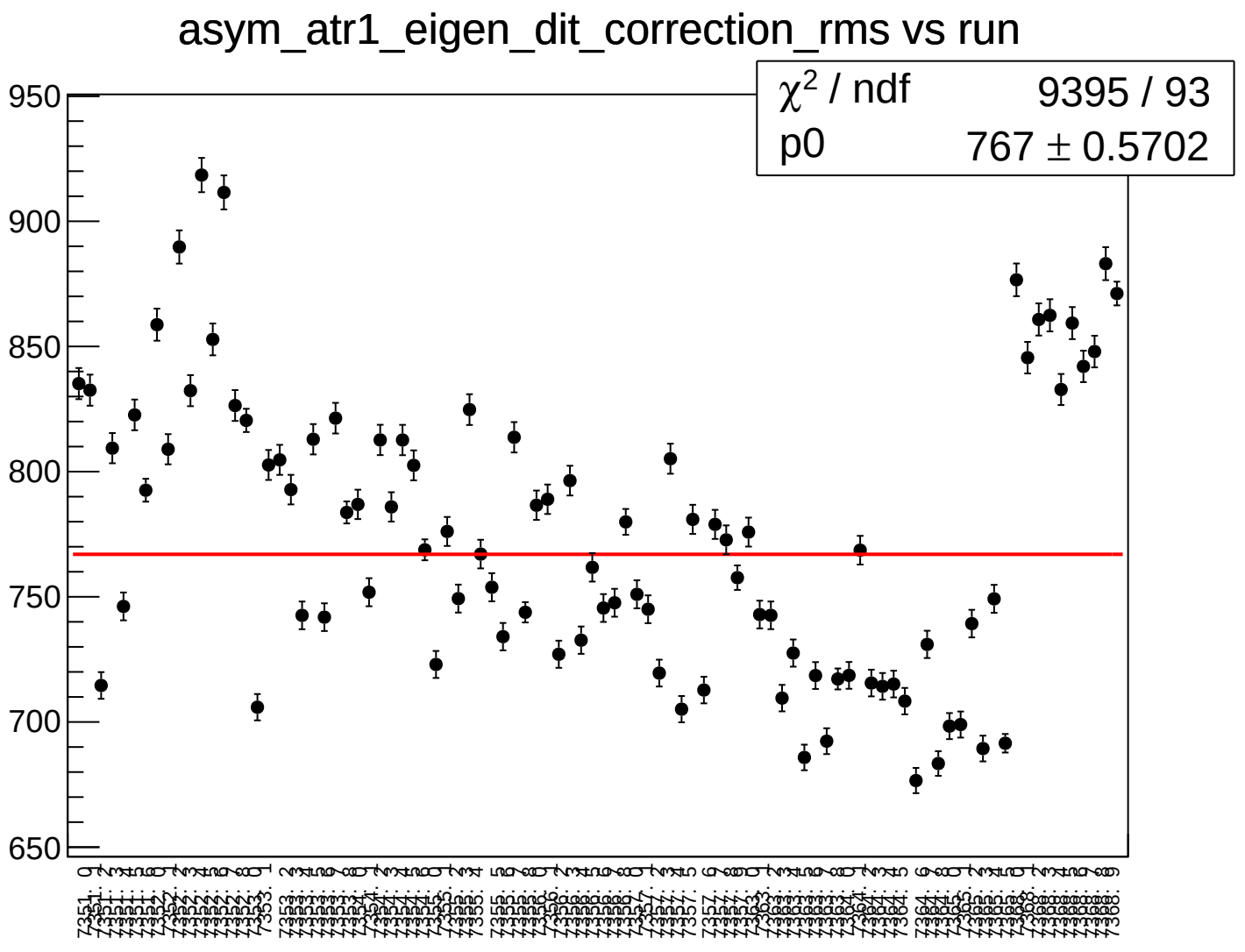

eigen_dit_asym_atr1_mean vs run
×10^3
χ² / ndf 106 / 93
p0 81.09 ± 2890
100
50
0
−50
−100
pull
Entries 94
Mean 1300
Std Dev 0
3
2
1
0
−1
−2

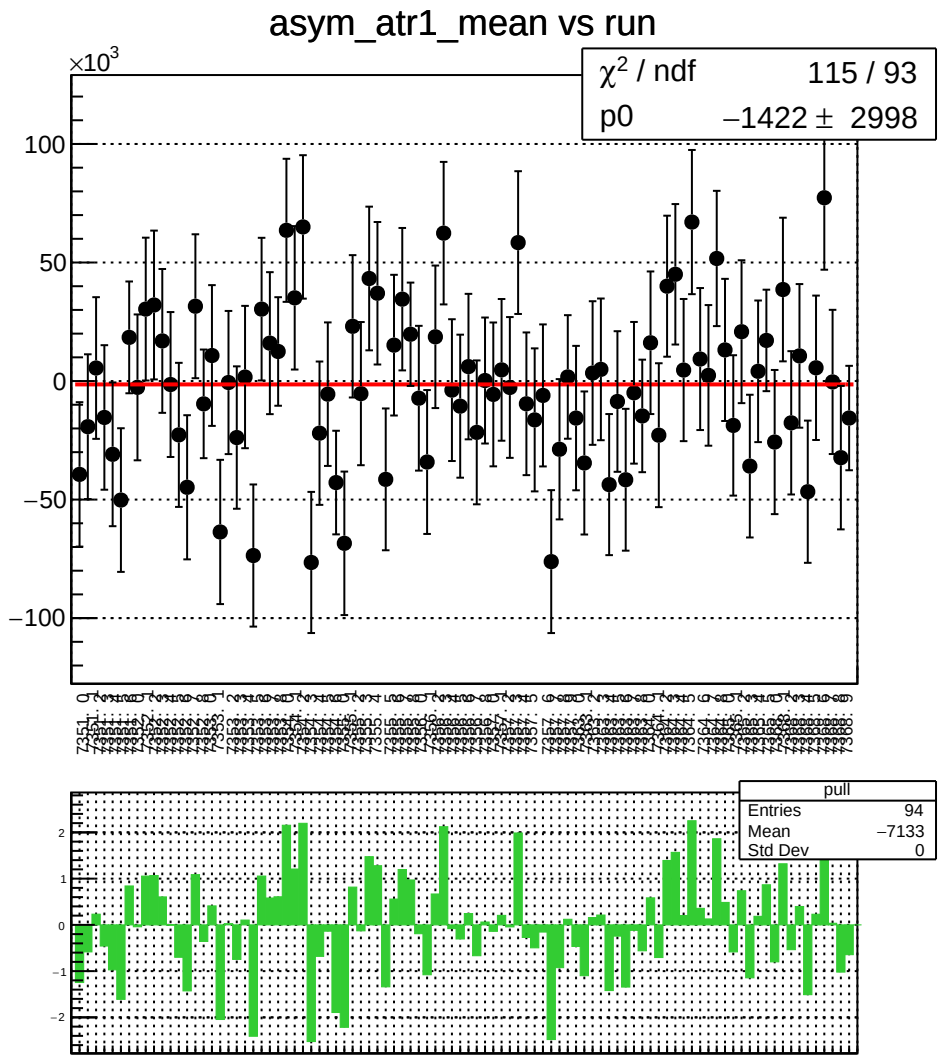

pull1D
Entries 94
Mean 0.001689
Std Dev 1.062
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

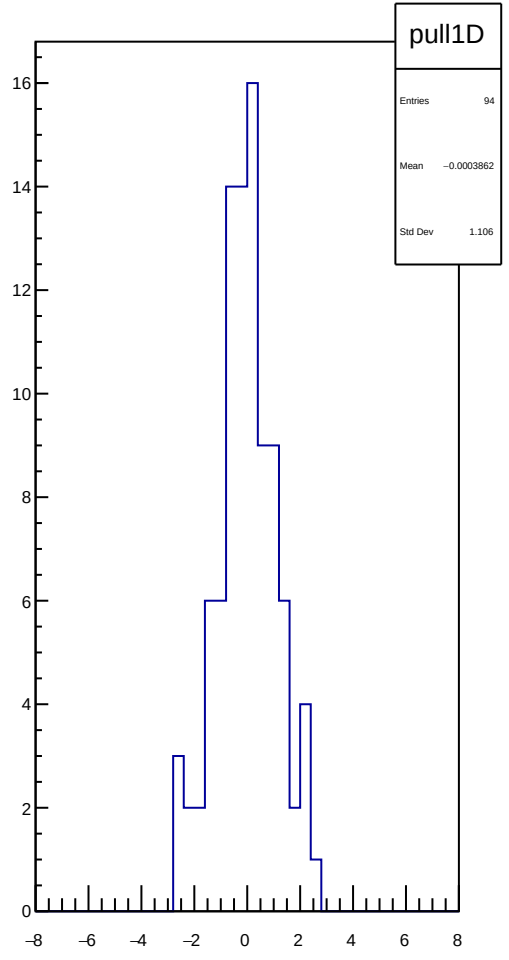

eigen_dit_asym_atr1_rms vs run
χ^2 / ndf 95.33 / 93
p0 2755 ± 2.043
2840
2820
2800
2780
2760
2740
2720
2700
2680

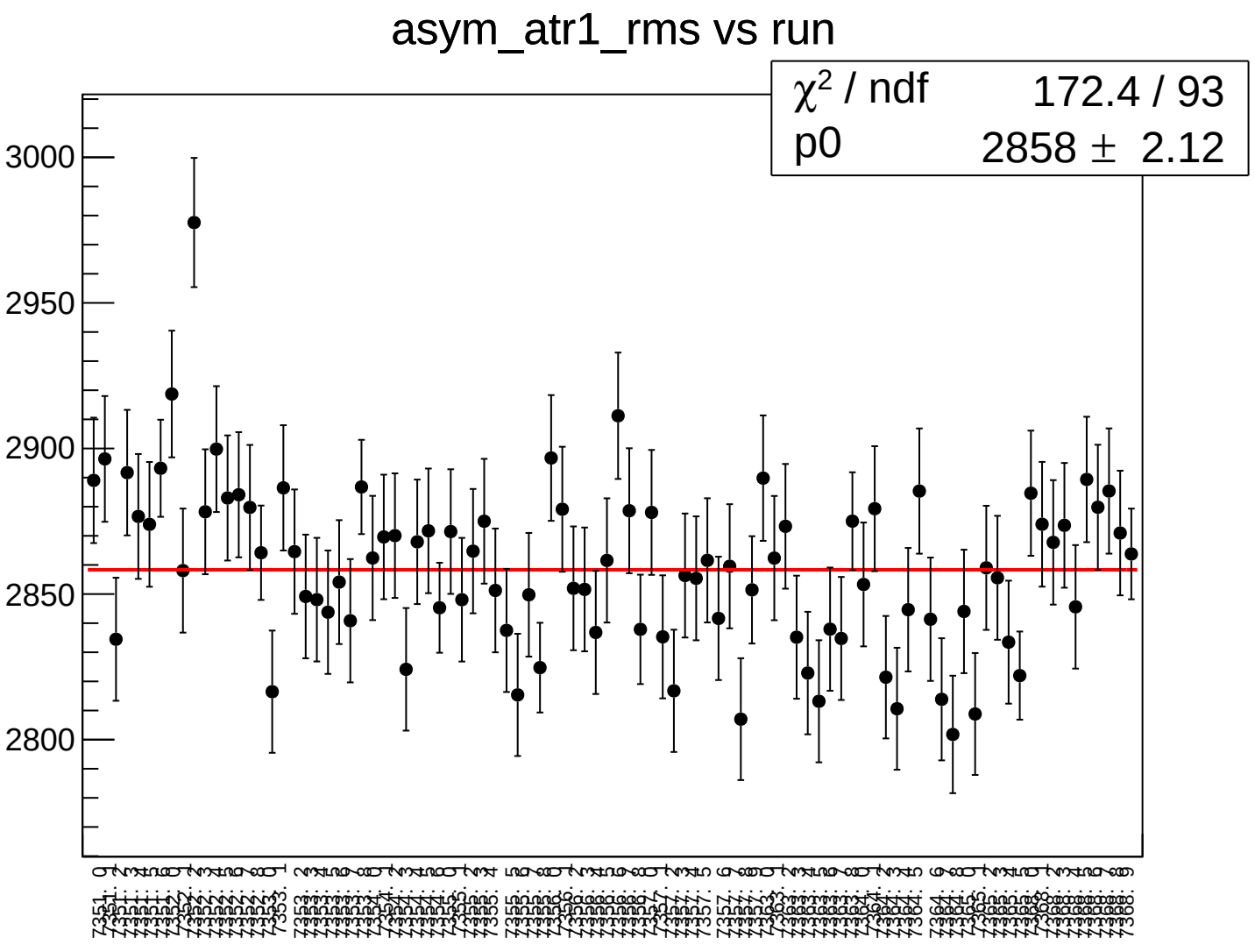

asym_atr1_eigen_dit_correction_mean vs run
χ² / ndf 143.2 / 93
p0 1254 ± 806.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −88.8
Std Dev 0
3
2
1
0
−1
−2
−3

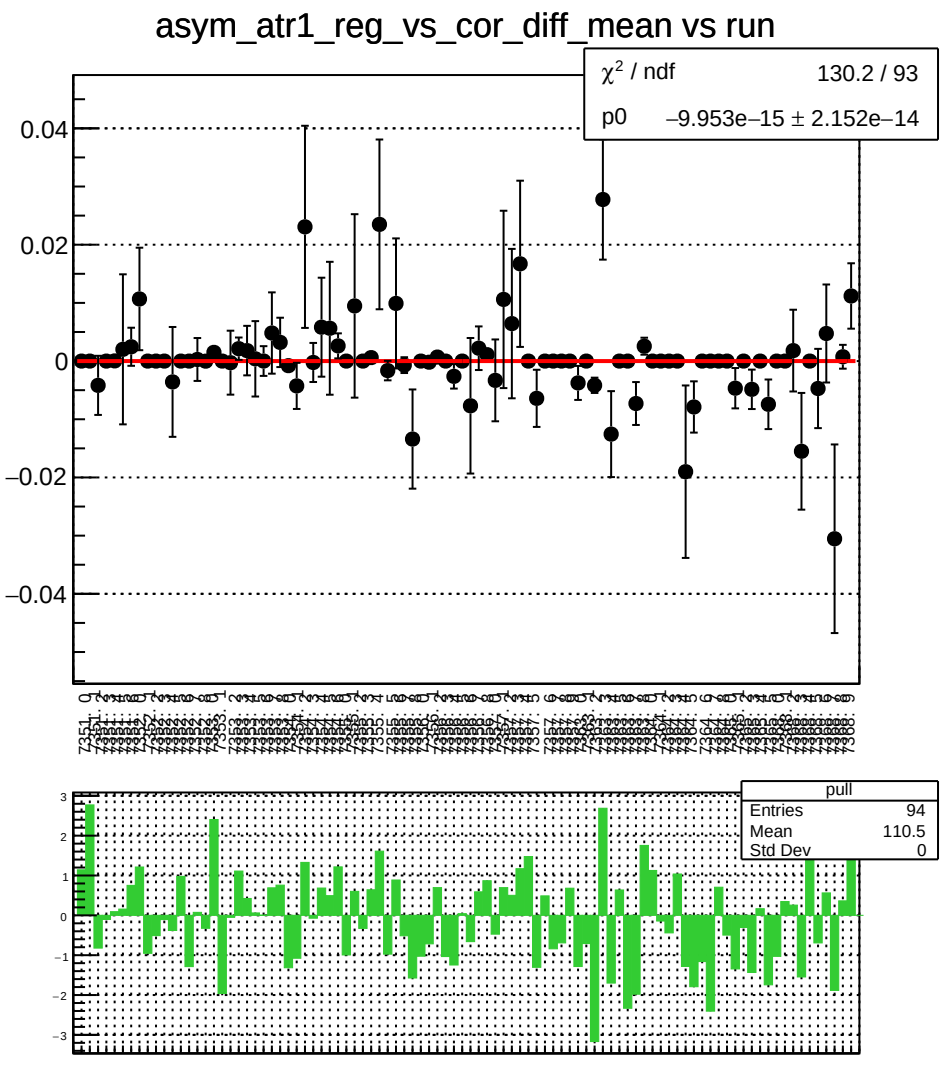

pull1D
Entries 94
Mean 0.02223
Std Dev 1.234
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

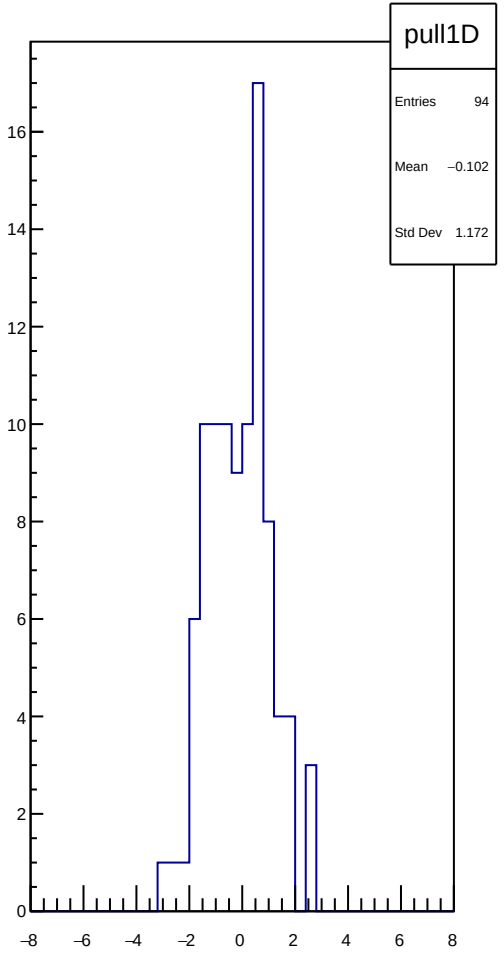

asym_atr1_eigen_dit_correction_rms vs run
χ² / ndf 9395 / 93
p0 767 ± 0.5702
950
900
850
800
750
700
650

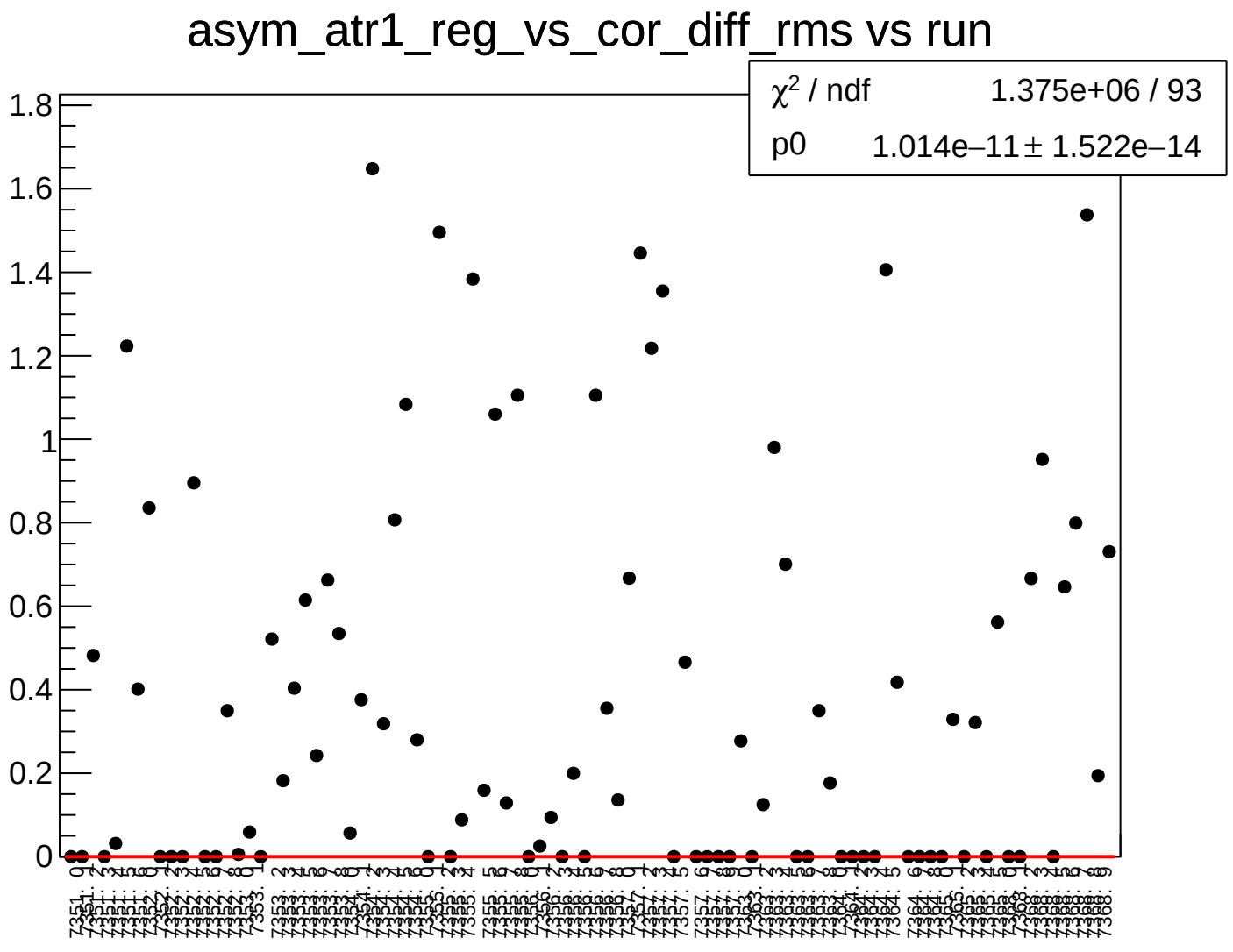

asym_atr1_mean vs run
×10^3
χ^2 / ndf 115 / 93
p0 −1422 ± 2998
100
50
0
−50
−100
pull
Entries 94
Mean −7133
Std Dev 0
2
1
0
−1
−2

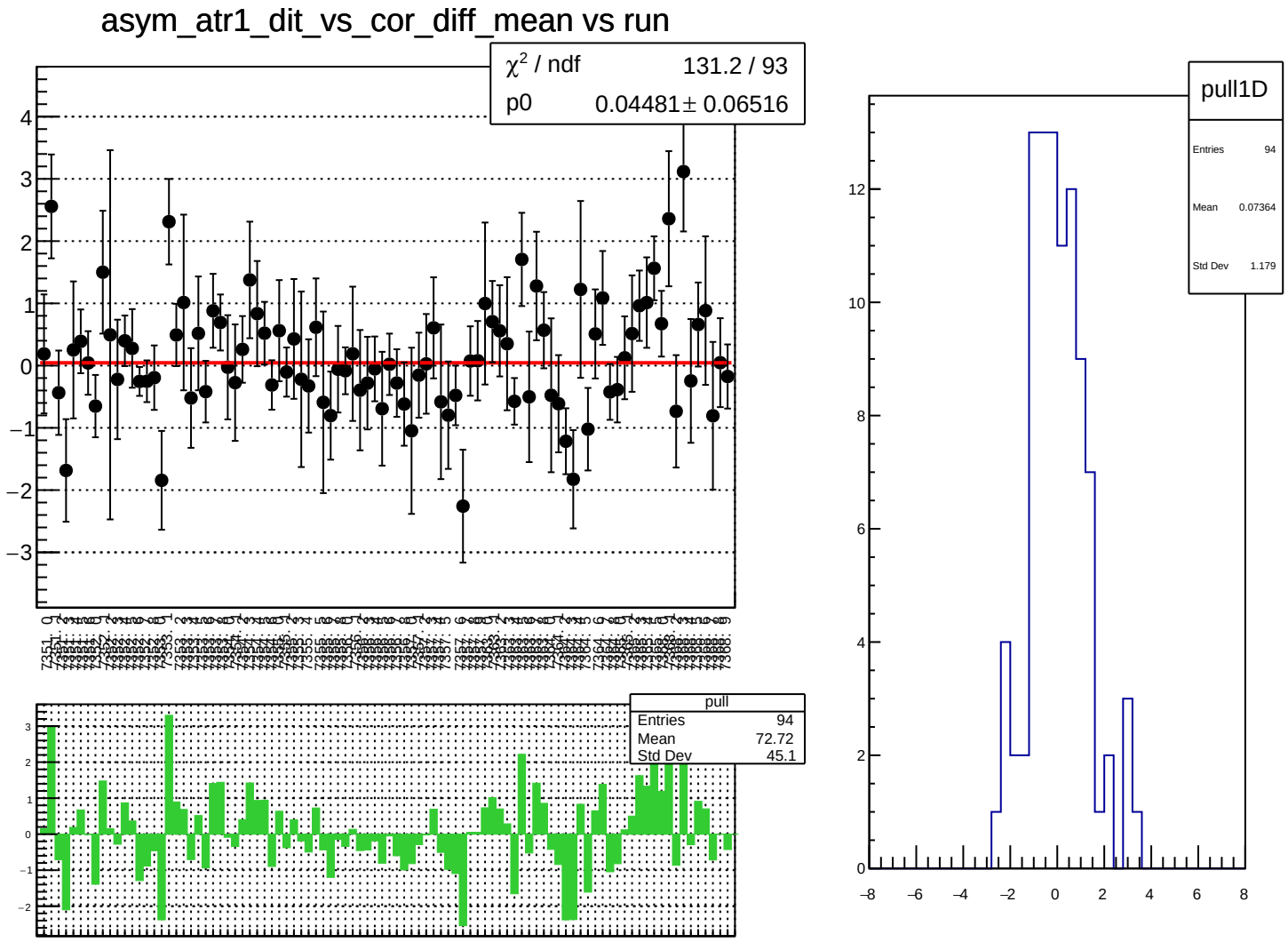

pull1D
Entries 94
Mean −0.0003862
Std Dev 1.106
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

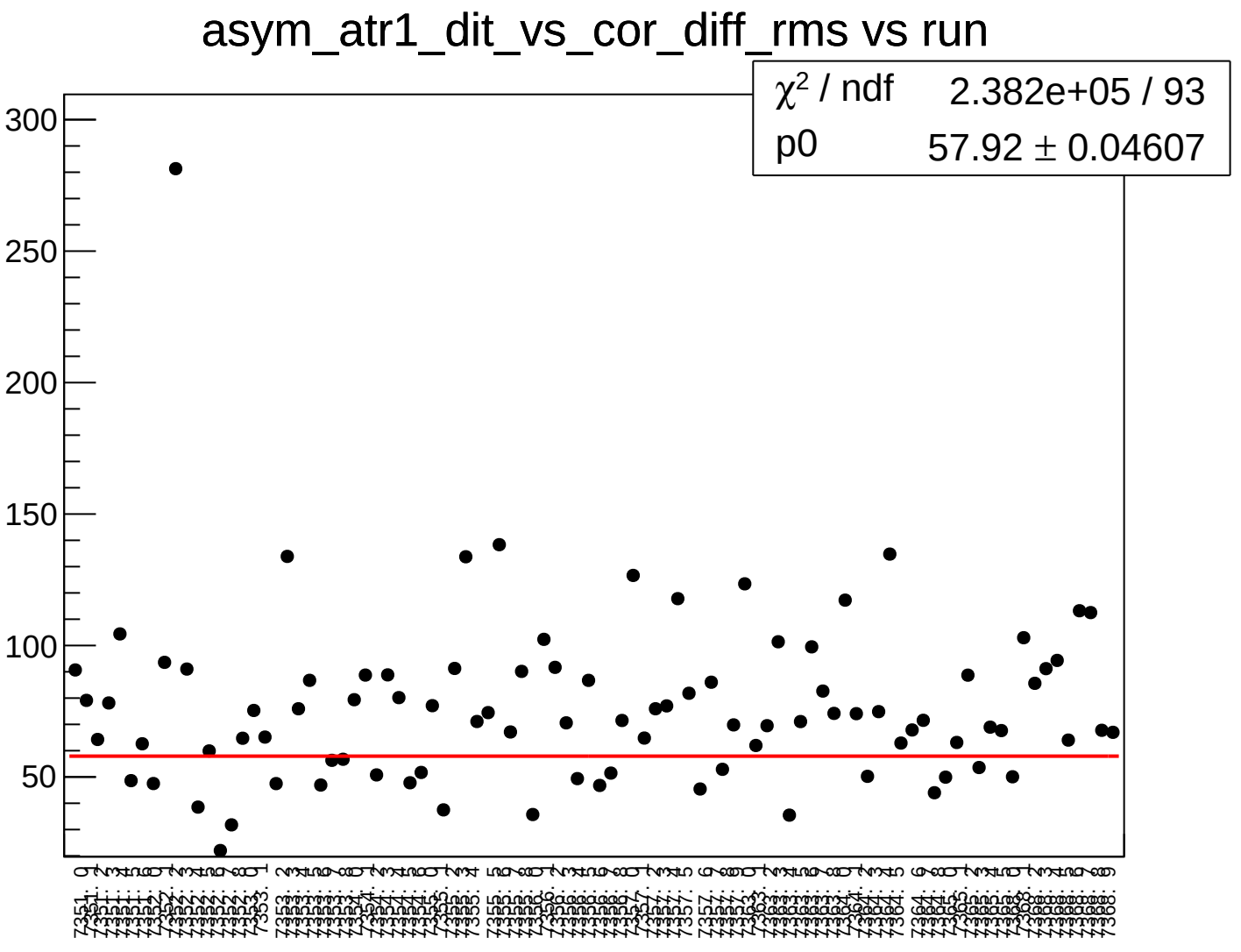

asym_atr1_rms vs run
χ² / ndf 172.4 / 93
p0 2858 ± 2.12
3000
2950
2900
2850
2800

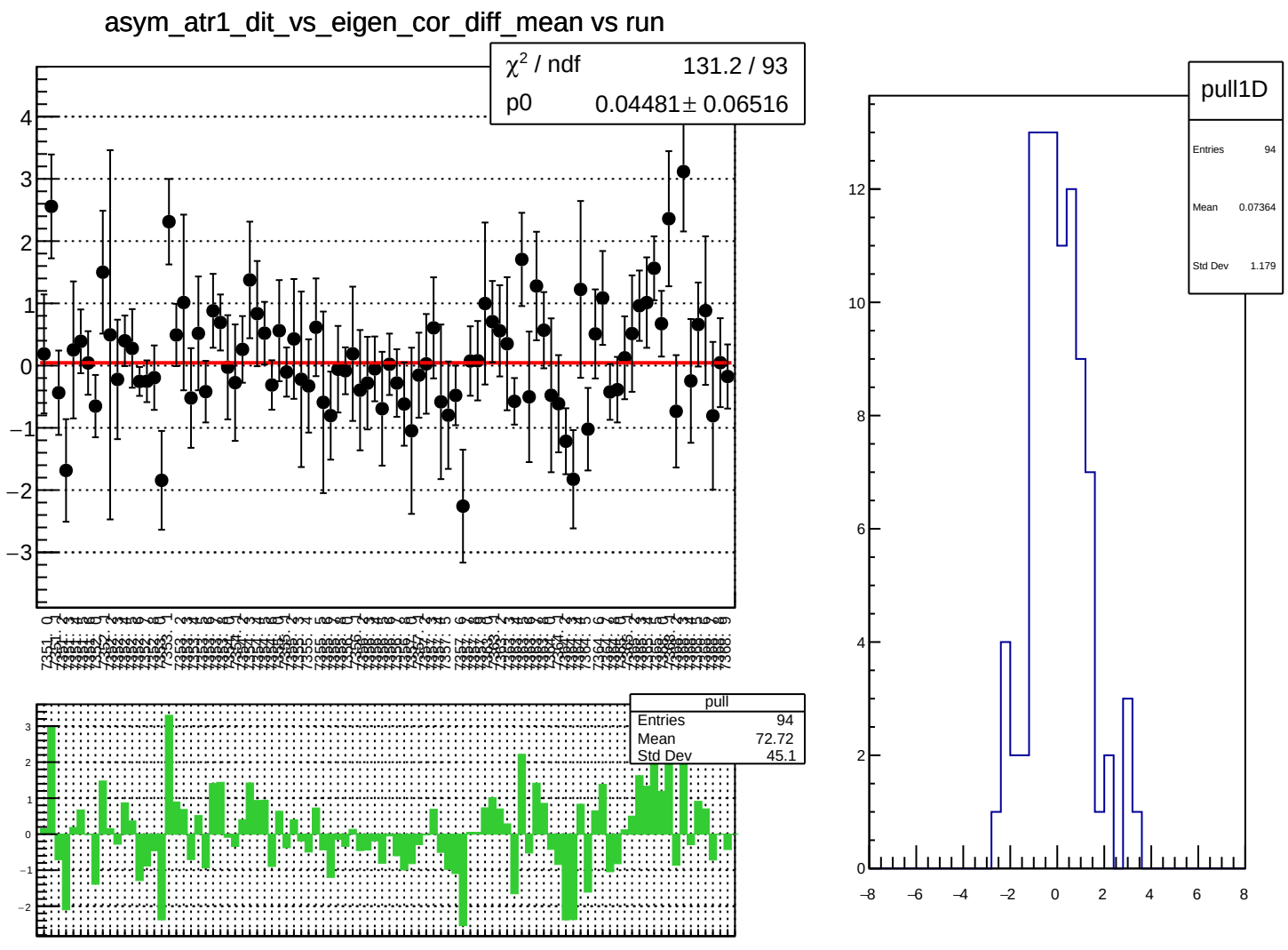

asym_atr1_reg_vs_cor_diff_mean vs run
χ² / ndf 130.2 / 93
p0 −9.953e−15 ± 2.152e−14
0.04
0.02
0
−0.02
−0.04
pull
Entries 94
Mean 110.5
Std Dev 0
3
2
1
0
−1
−2
−3

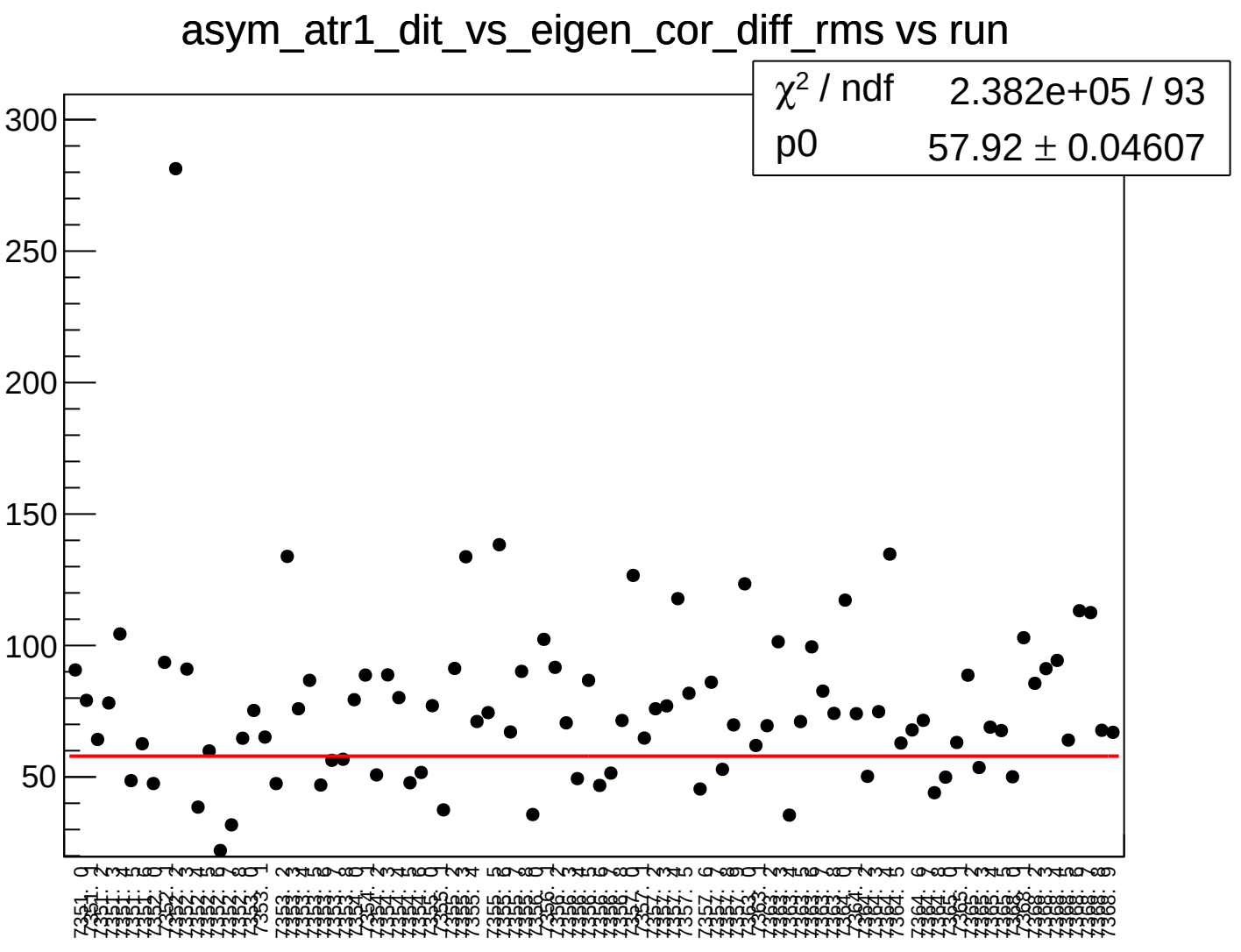

pull1D
Entries 94
Mean −0.102
Std Dev 1.172
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

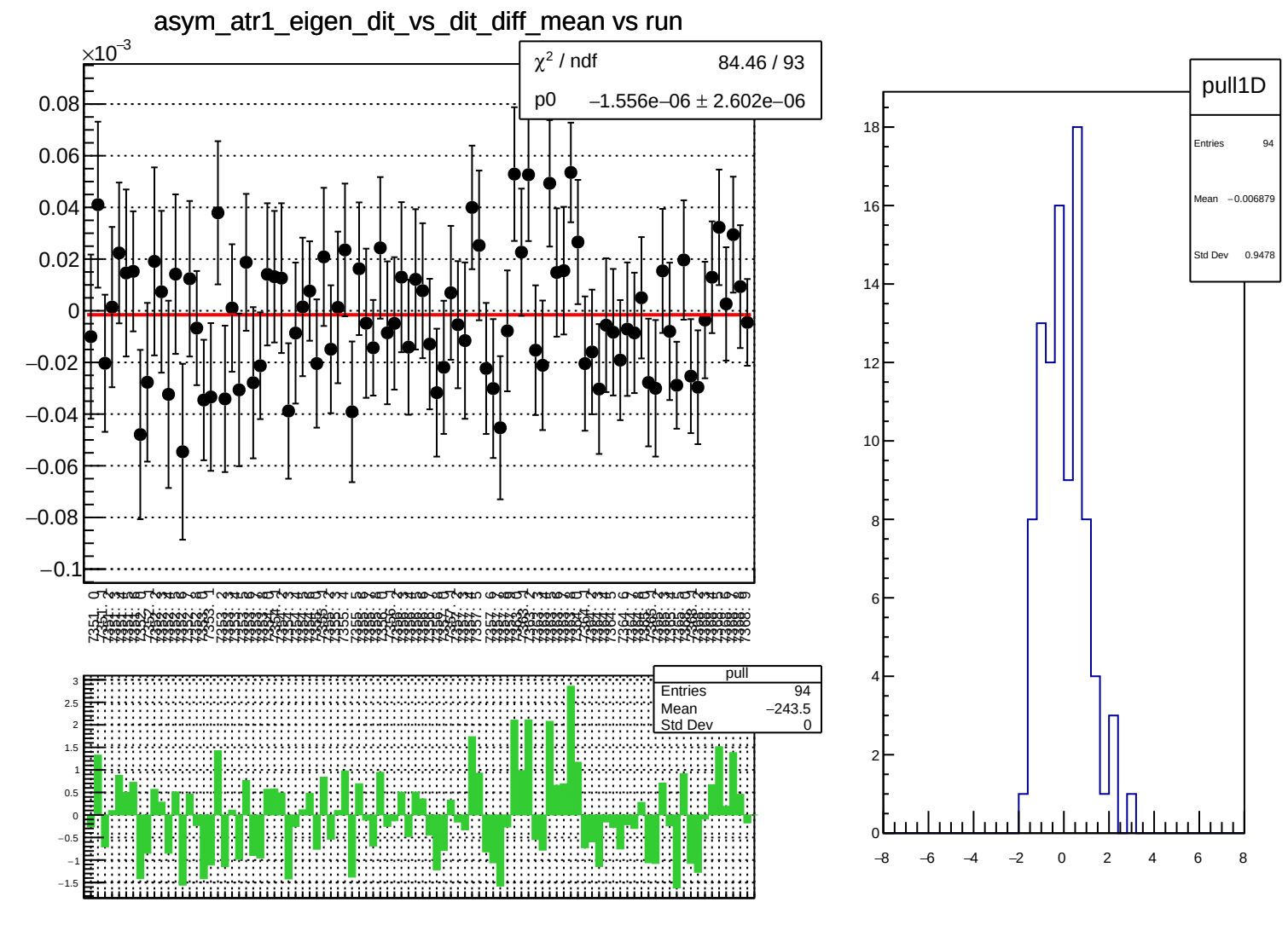

asym_atr1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.375e+06 / 93
p0 1.014e−11 ± 1.522e−14
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

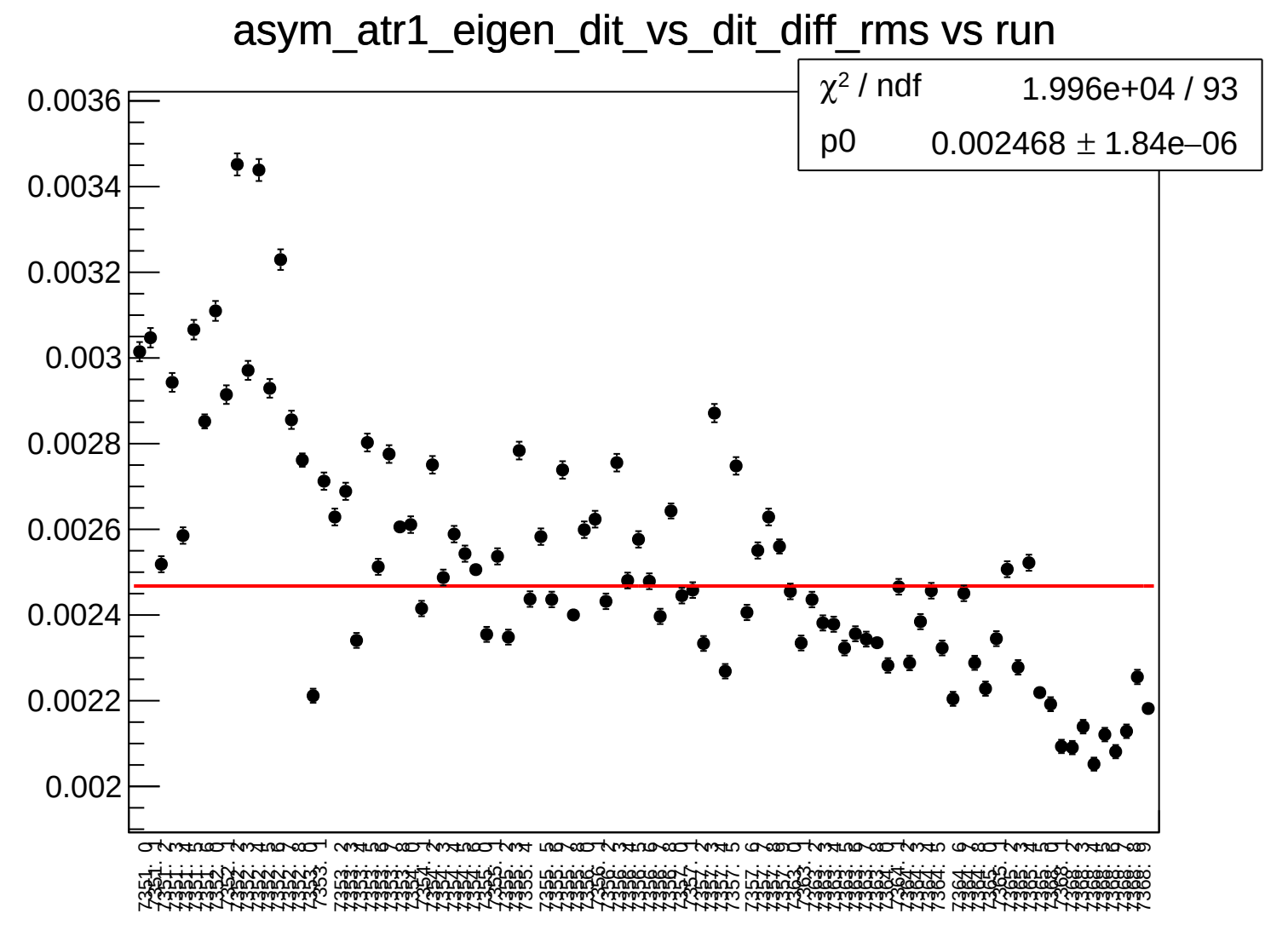

asym_atr1_dit_vs_cor_diff_mean vs run
χ² / ndf 131.2 / 93
p0 0.04481 ± 0.06516
pull
Entries 94
Mean 72.72
Std Dev 45.1
pull1D
Entries 94
Mean 0.07364
Std Dev 1.179

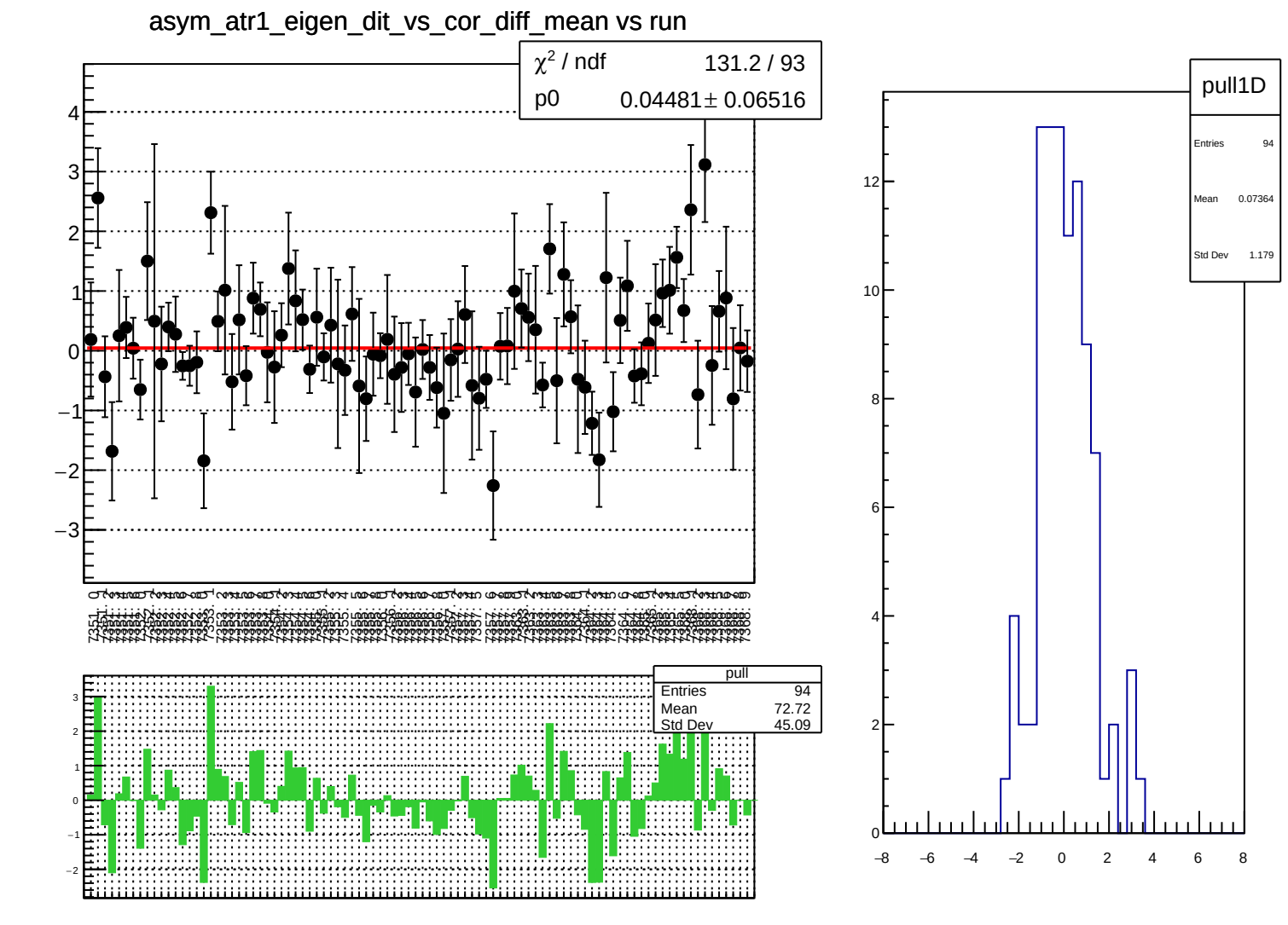

asym_atr1_dit_vs_cor_diff_rms vs run
χ² / ndf 2.382e+05 / 93
p0 57.92 ± 0.04607
300
250
200
150
100
50

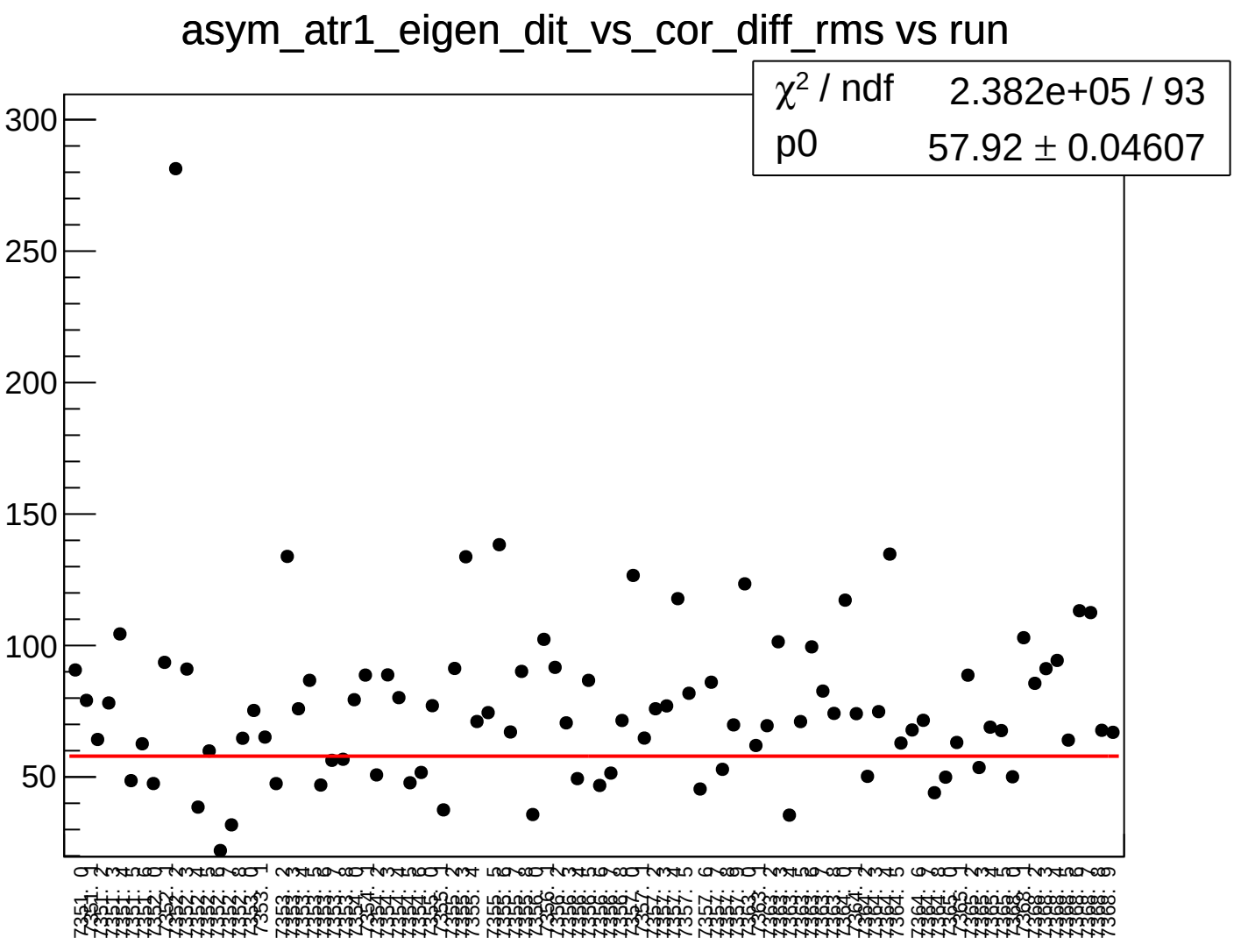

asym_atr1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 131.2 / 93
p0 0.04481 ± 0.06516
pull
Entries 94
Mean 72.72
Std Dev 45.1
pull1D
Entries 94
Mean 0.07364
Std Dev 1.179

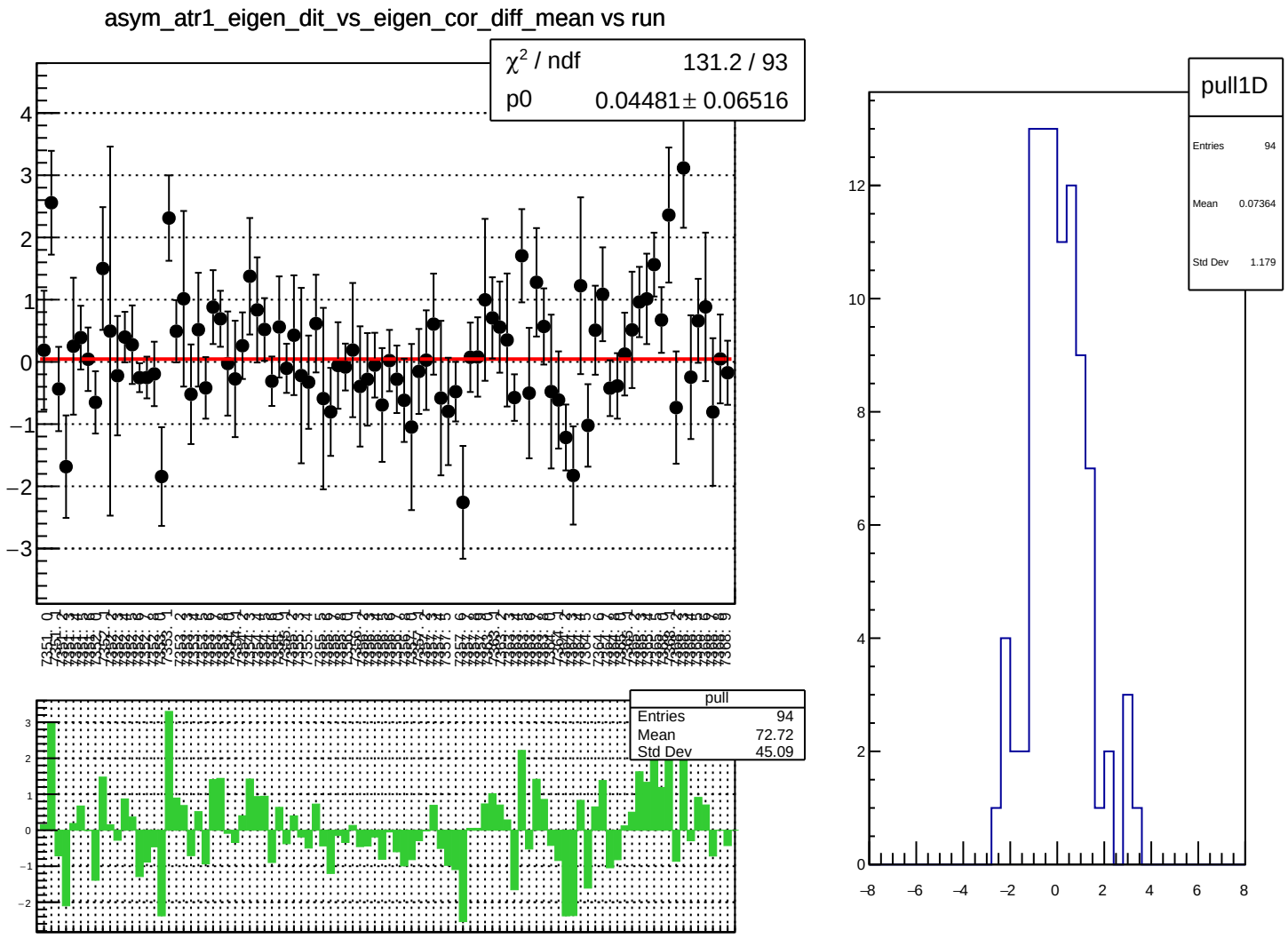

asym_atr1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.382e+05 / 93
p0 57.92 ± 0.04607
300
250
200
150
100
50

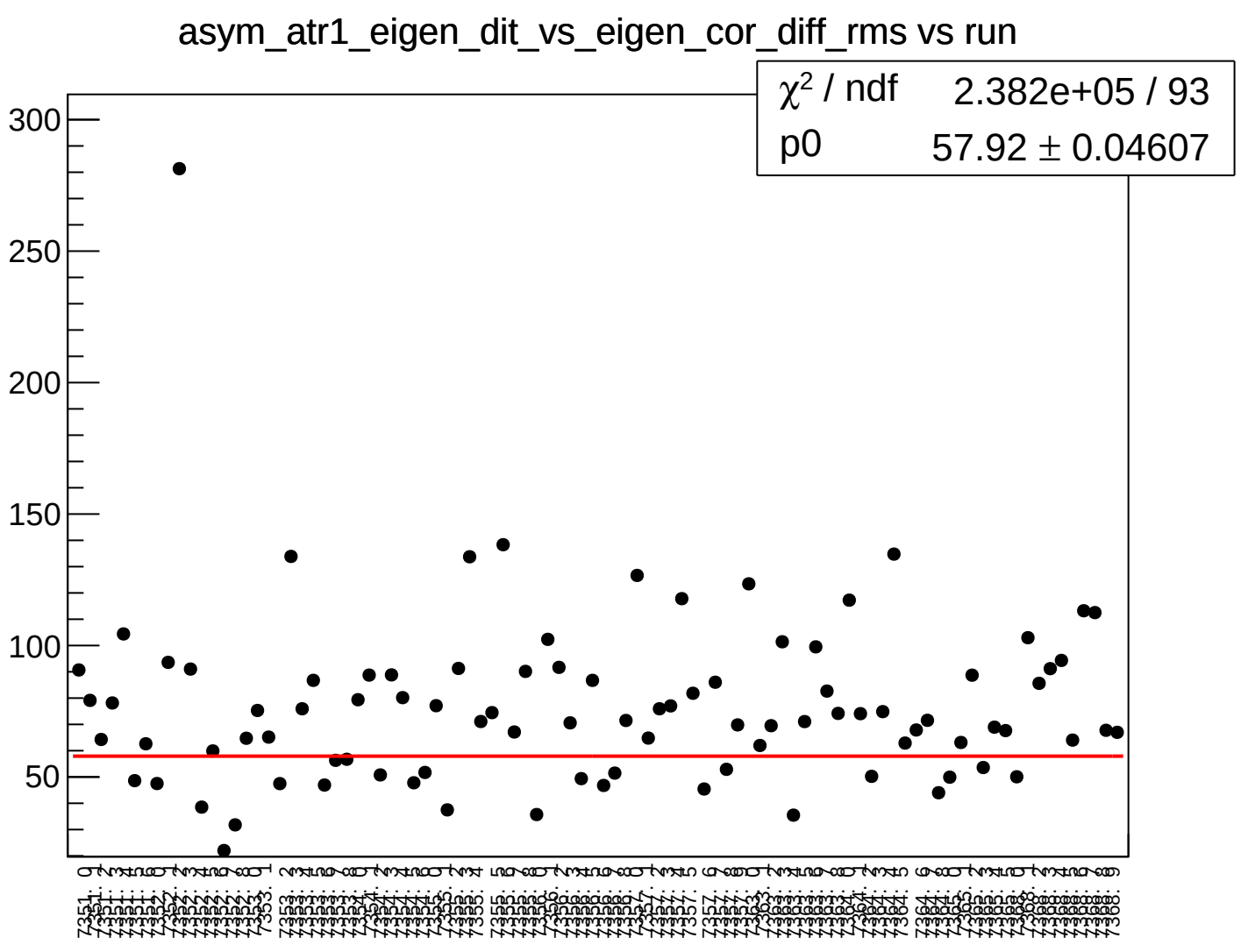

asym_atr1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 84.46 / 93
p0 −1.556e−06 ± 2.602e−06
pull
Entries 94
Mean −243.5
Std Dev 0
pull1D
Entries 94
Mean −0.006879
Std Dev 0.9478

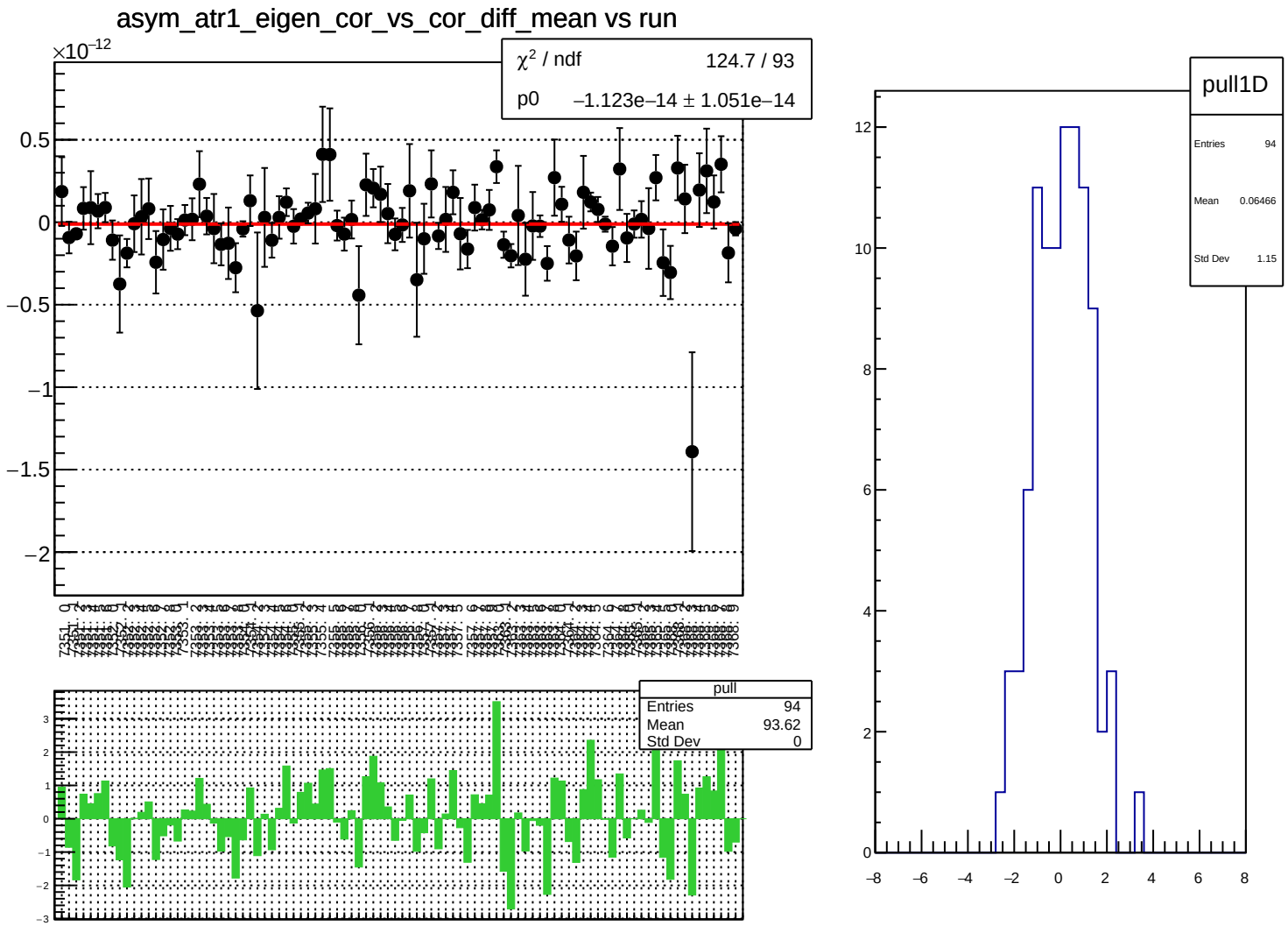

asym_atr1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.996e+04 / 93
p0 0.002468 ± 1.84e−06
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002

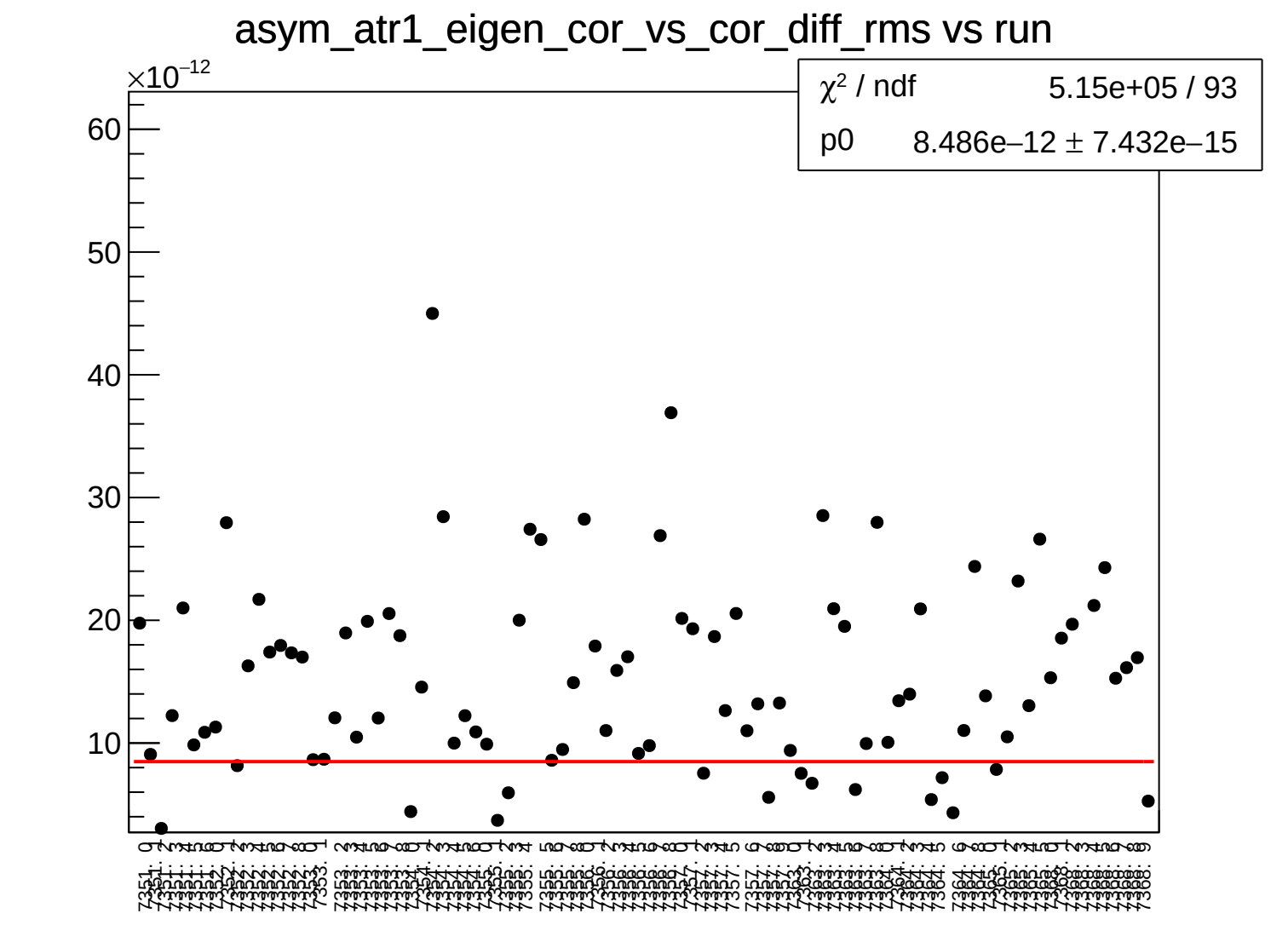

asym_atr1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 131.2 / 93
p0 0.04481 ± 0.06516
pull
Entries 94
Mean 72.72
Std Dev 45.09
pull1D
Entries 94
Mean 0.07364
Std Dev 1.179

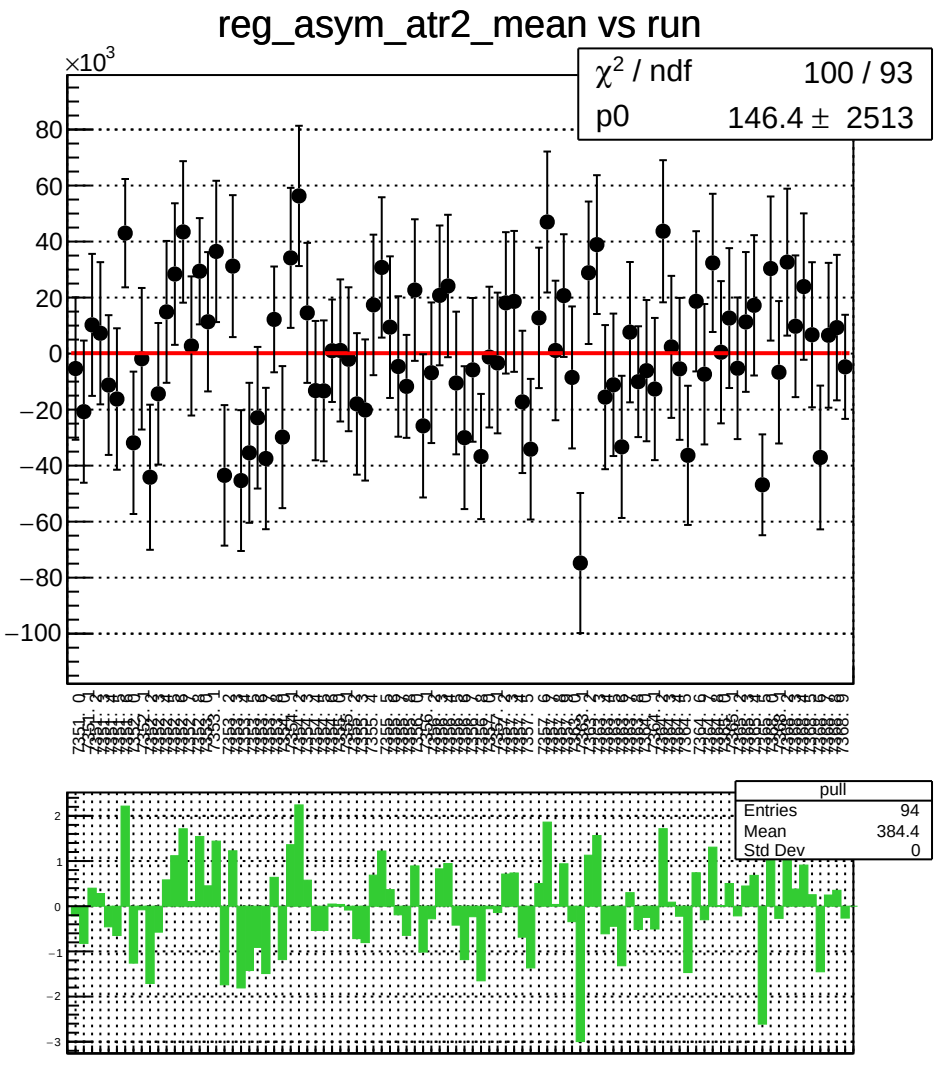

asym_atr1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.382e+05 / 93
p0 57.92 ± 0.04607
300
250
200
150
100
50

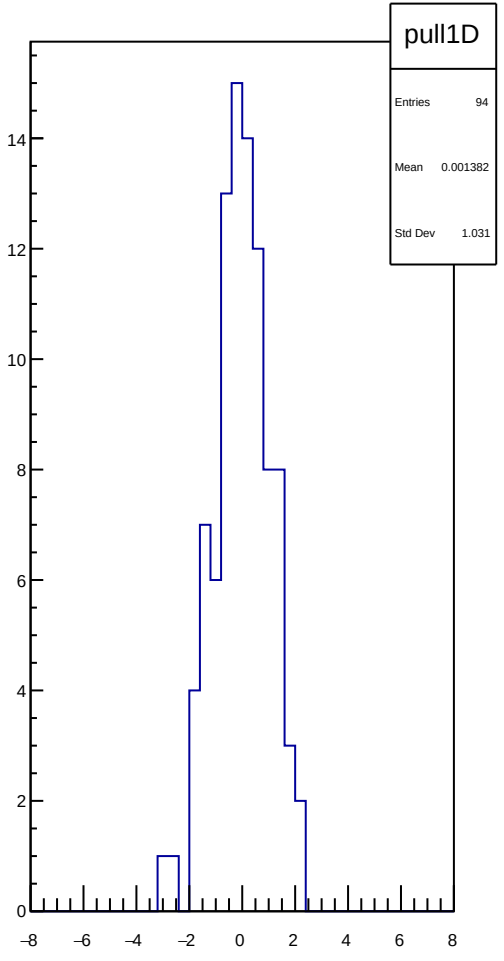

asym_atr1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 131.2 / 93
p0 0.04481 ± 0.06516
pull
Entries 94
Mean 72.72
Std Dev 45.09
pull1D
Entries 94
Mean 0.07364
Std Dev 1.179

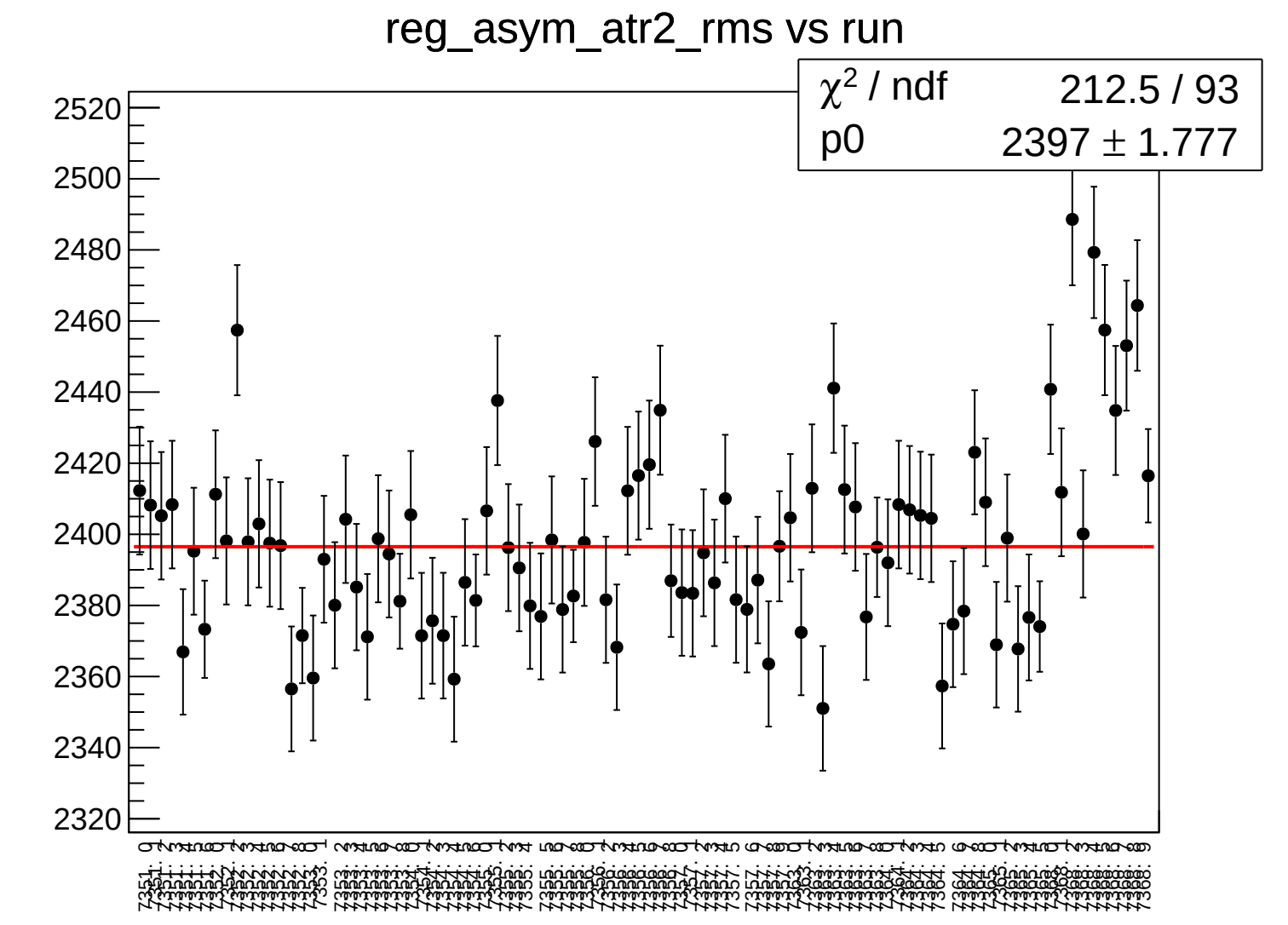

asym_atr1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.382e+05 / 93
p0 57.92 ± 0.04607
300
250
200
150
100
50

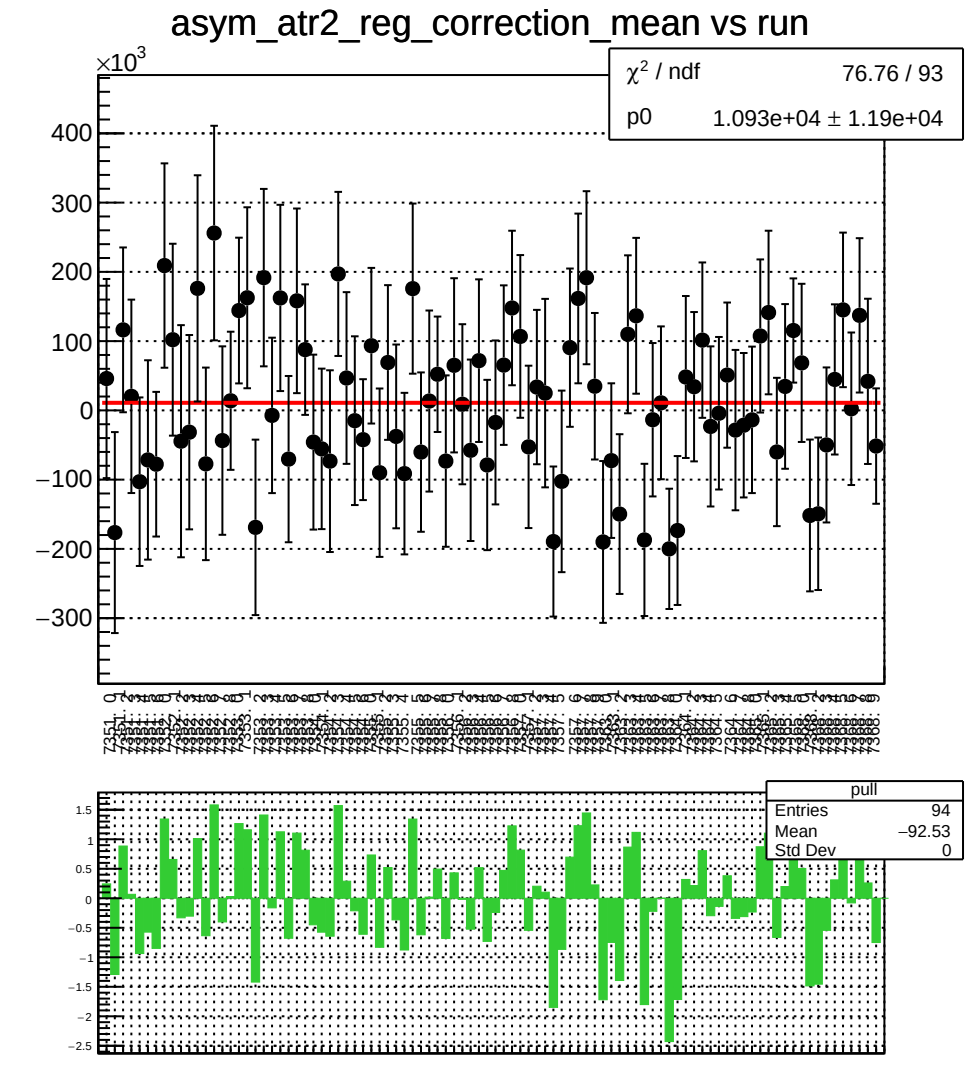

asym_atr1_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 124.7 / 93
p0 −1.123e−14 ± 1.051e−14
0.5
0
−0.5
−1
−1.5
−2
pull
Entries 94
Mean 93.62
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.06466
Std Dev 1.15
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

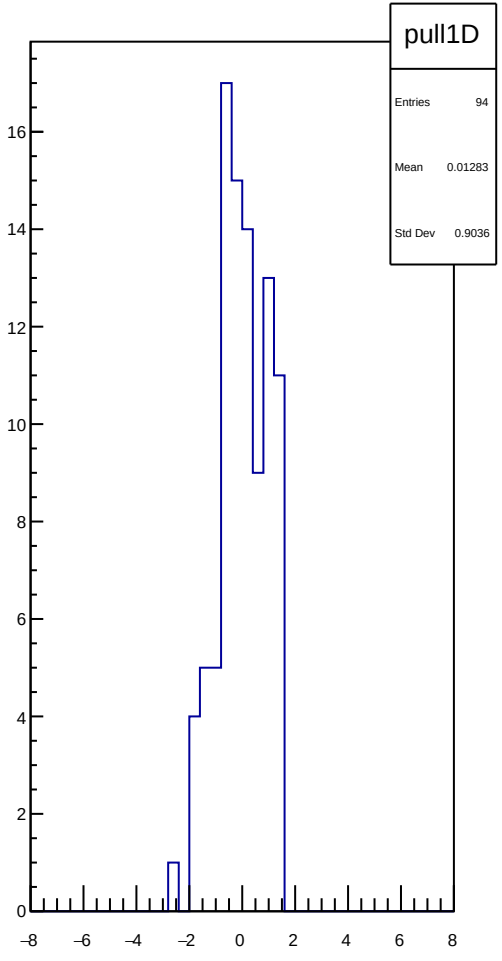

asym_atr1_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
60
50
40
30
20
10
χ² / ndf 5.15e+05 / 93
p0 8.486e−12 ± 7.432e−15

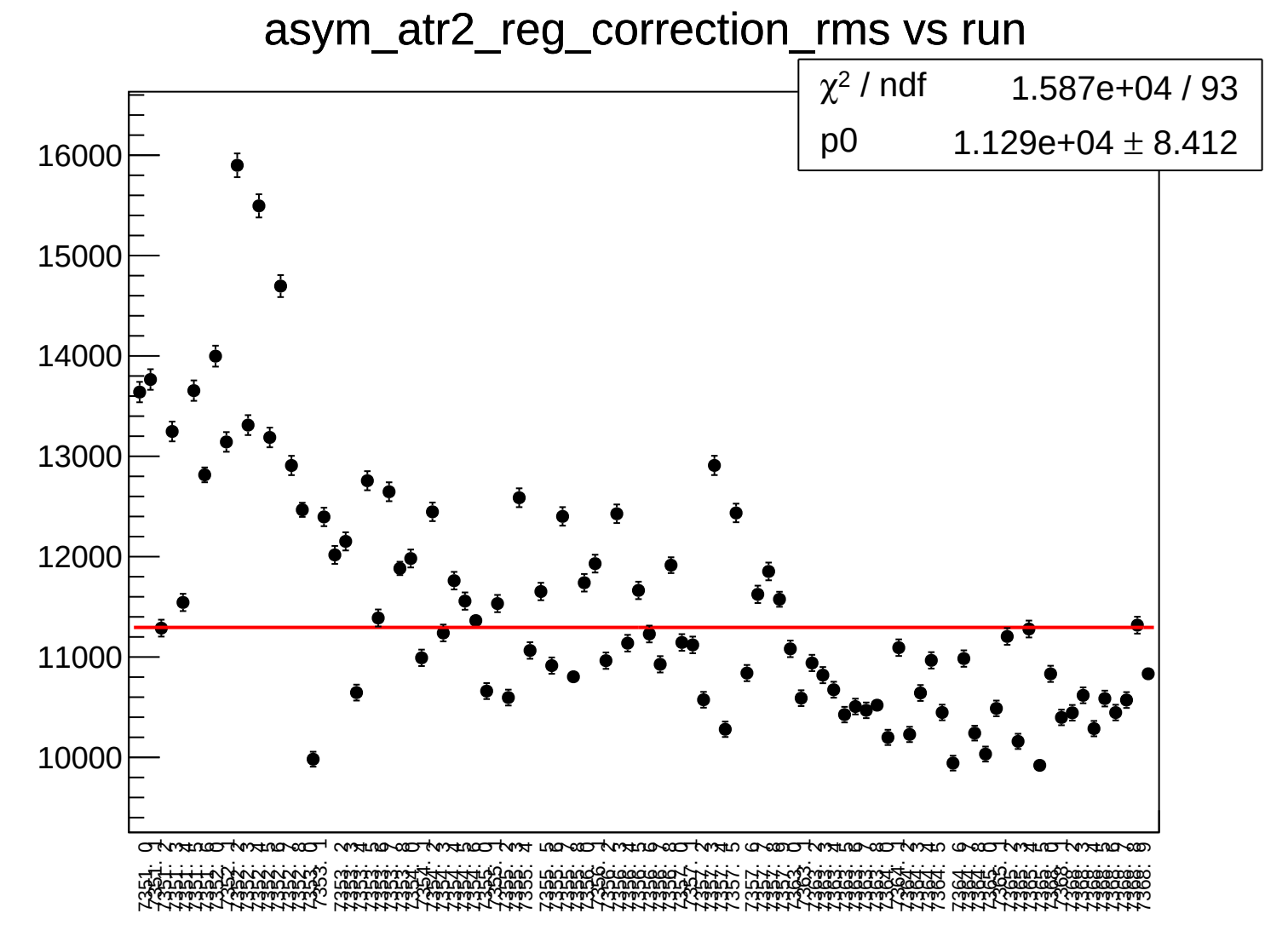

reg_asym_atr2_mean vs run
×10^3
χ² / ndf 100 / 93
p0 146.4 ± 2513
pull
Entries 94
Mean 384.4
Std Dev 0

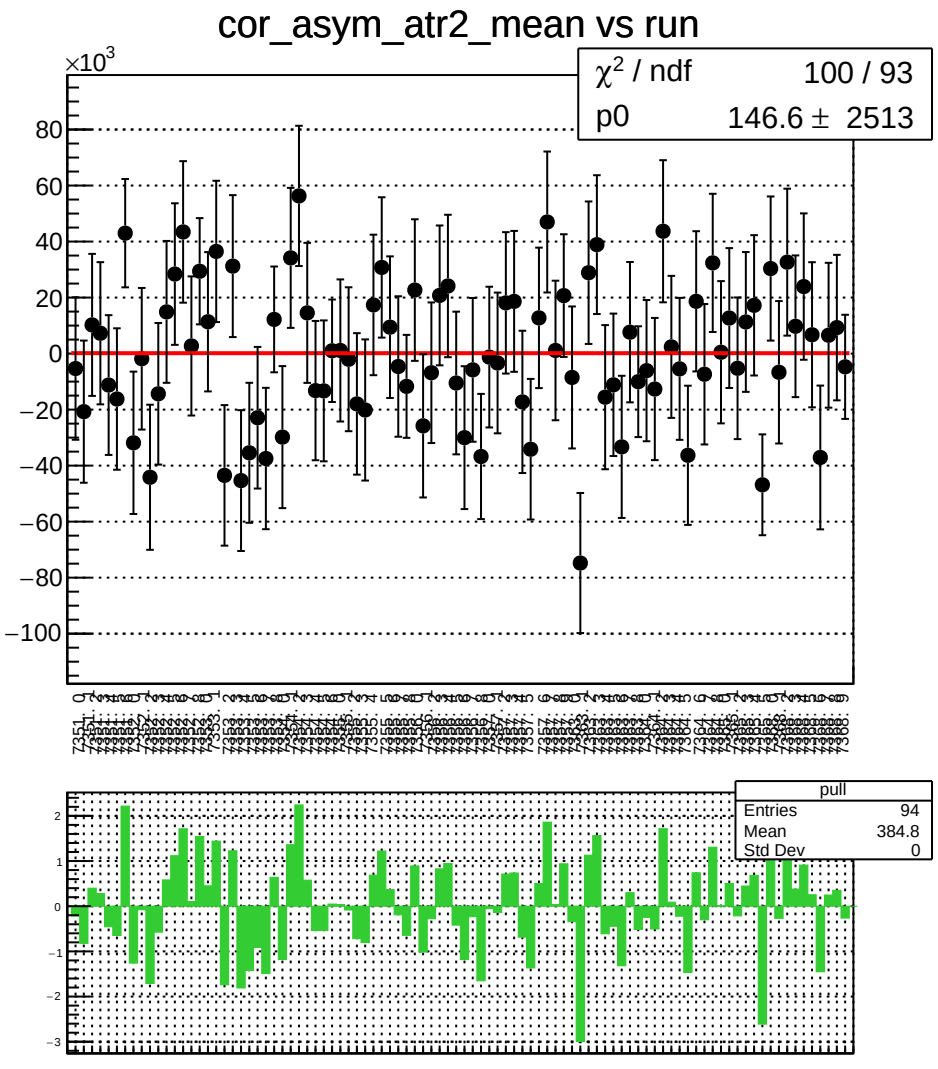

pull1D
Entries 94
Mean 0.001382
Std Dev 1.031

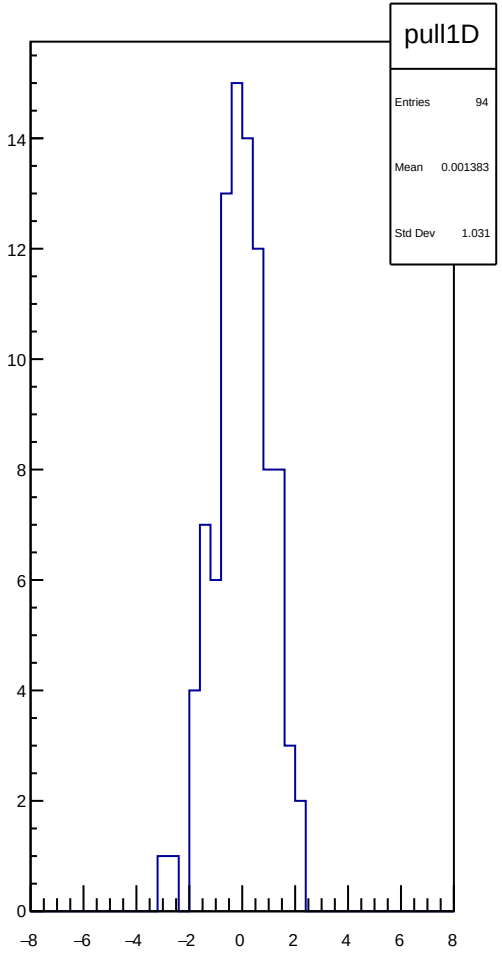

reg_asym_atr2_rms vs run
χ^2 / ndf 212.5 / 93
p0 2397 ± 1.777
2520
2500
2480
2460
2440
2420
2400
2380
2360
2340
2320

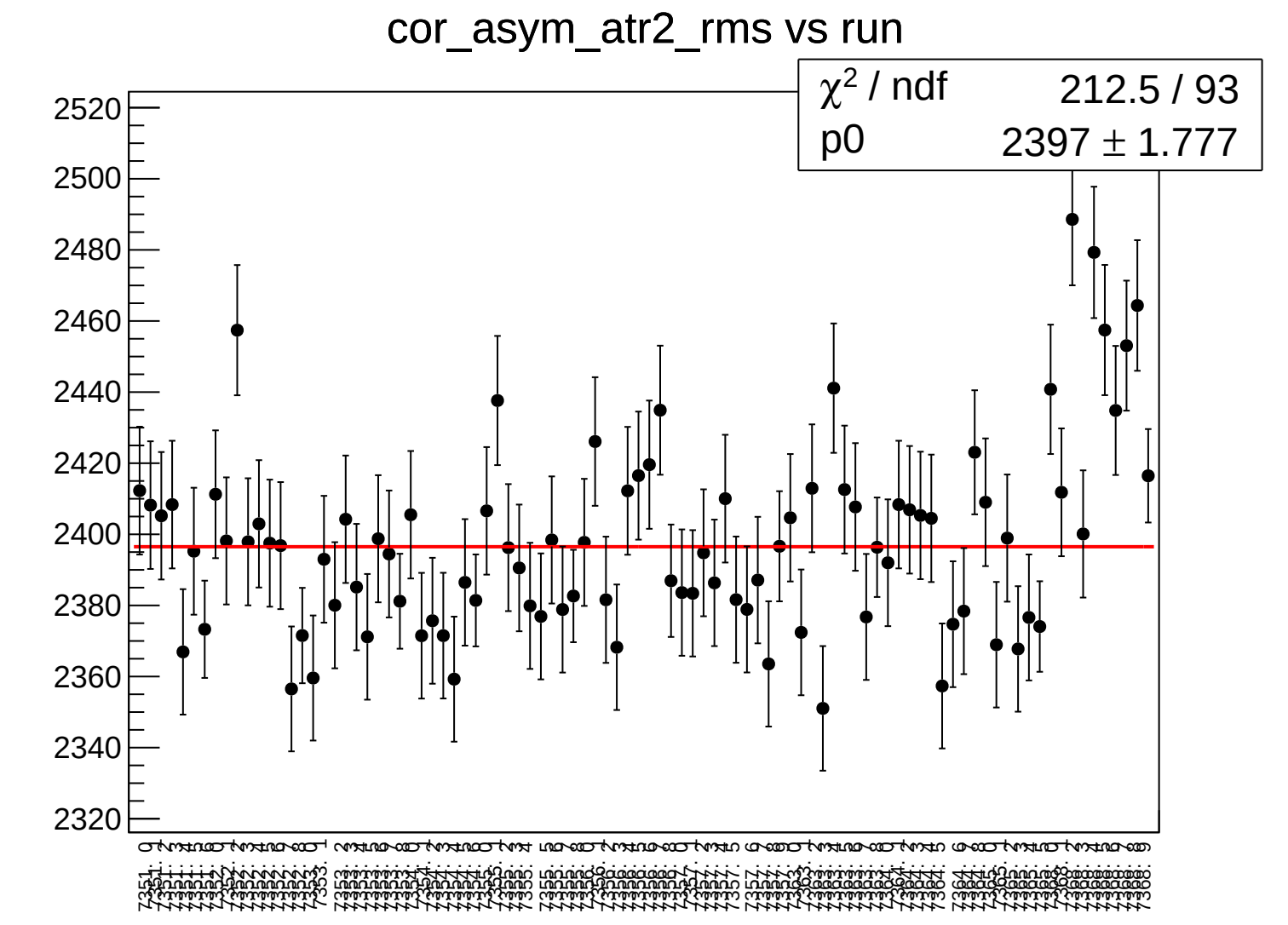

asym_atr2_reg_correction_mean vs run
χ² / ndf 76.76 / 93
p0 1.093e+04 ± 1.19e+04
pull
Entries 94
Mean −92.53
Std Dev 0

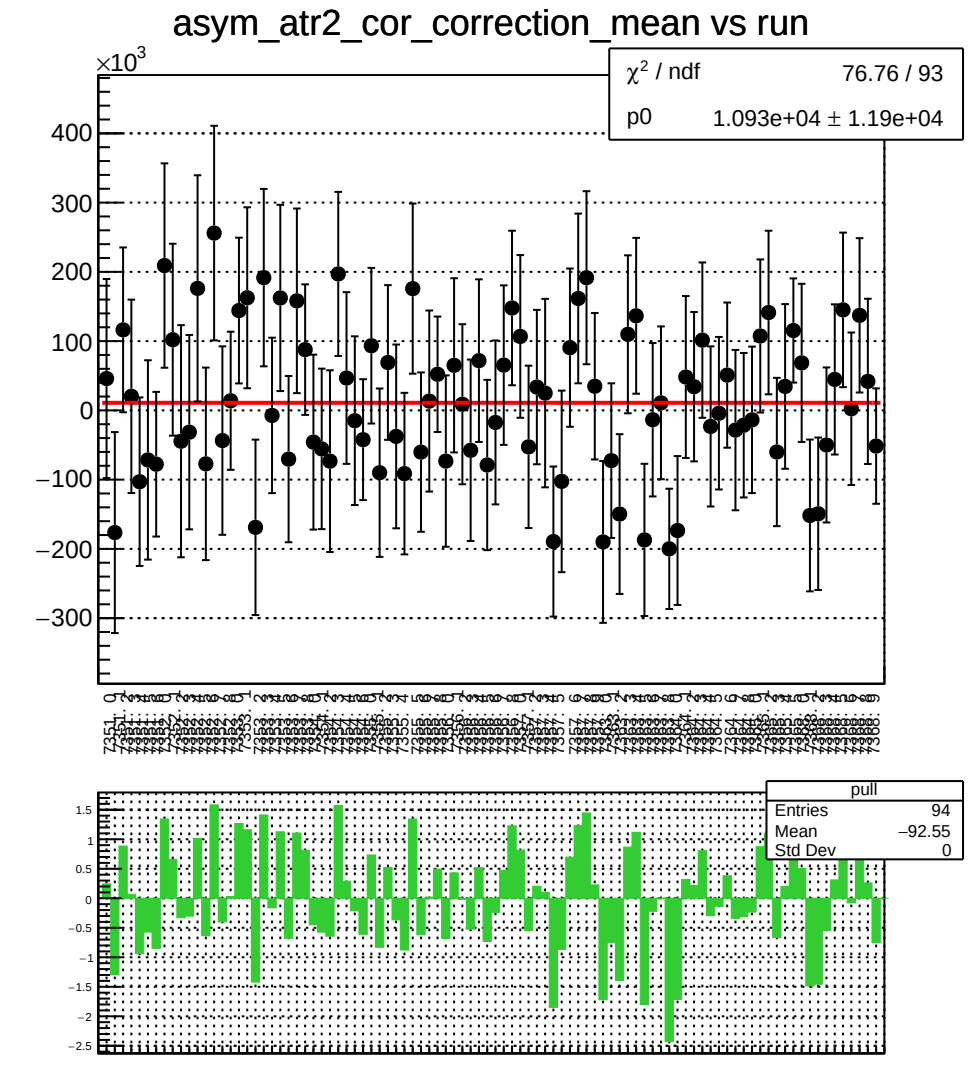

pull1D
Entries 94
Mean 0.01283
Std Dev 0.9036

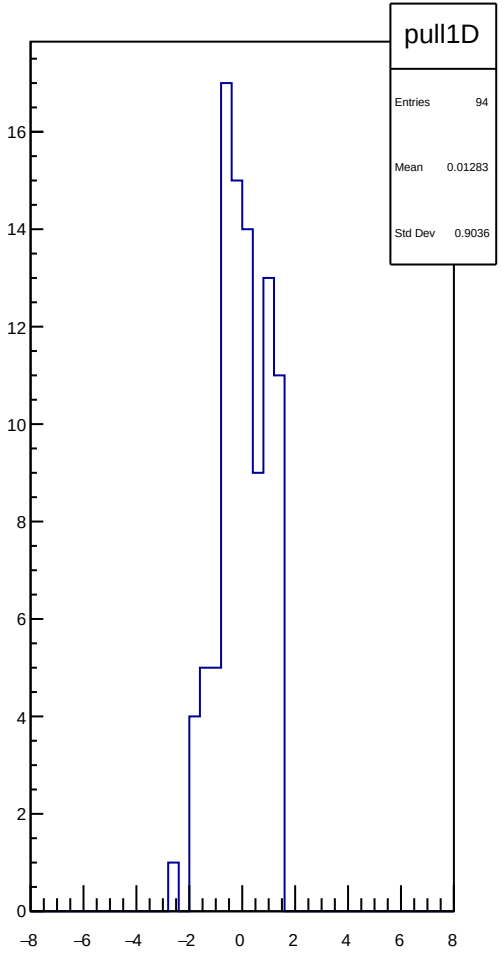

asym_atr2_reg_correction_rms vs run
χ² / ndf 1.587e+04 / 93
p0 1.129e+04 ± 8.412
16000
15000
14000
13000
12000
11000
10000

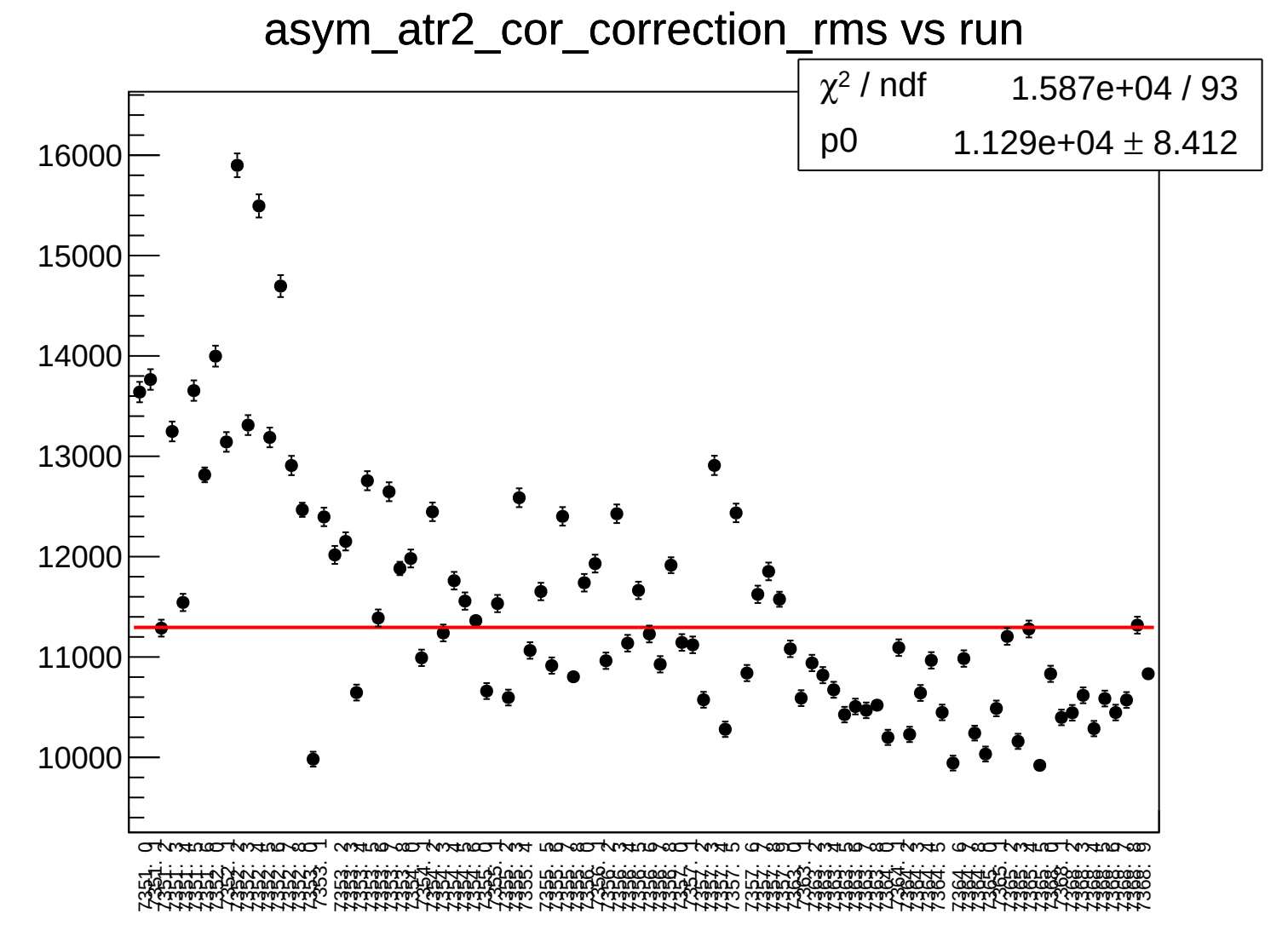

cor_asym_atr2_mean vs run
χ^2 / ndf 100 / 93
p0 146.6 ± 2513
×10^3
pull
Entries 94
Mean 384.8
Std Dev 0

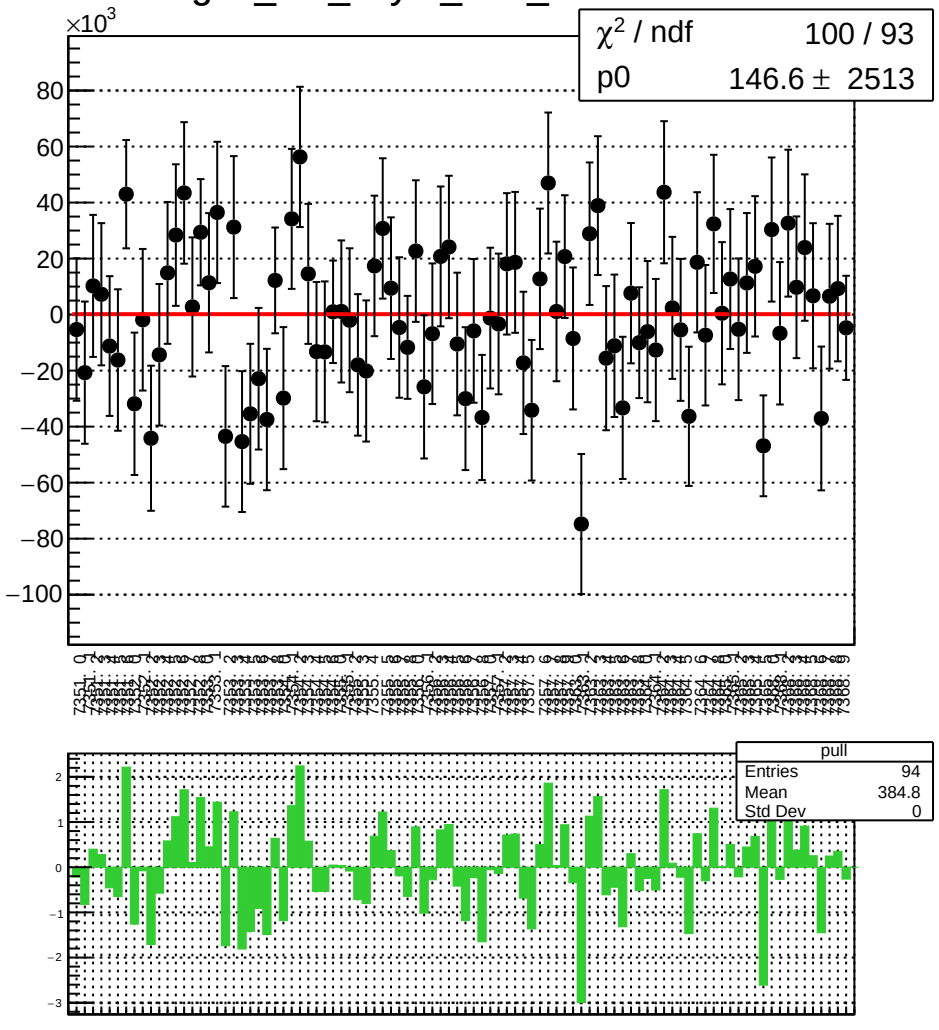

pull1D
Entries 94
Mean 0.001383
Std Dev 1.031

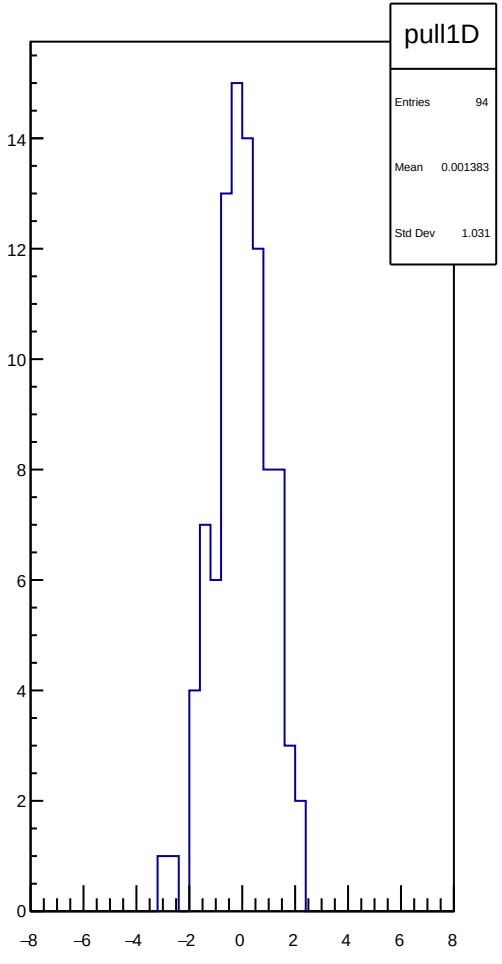

cor_asym_atr2_rms vs run
χ² / ndf 212.5 / 93
p0 2397 ± 1.777
2520
2500
2480
2460
2440
2420
2400
2380
2360
2340
2320

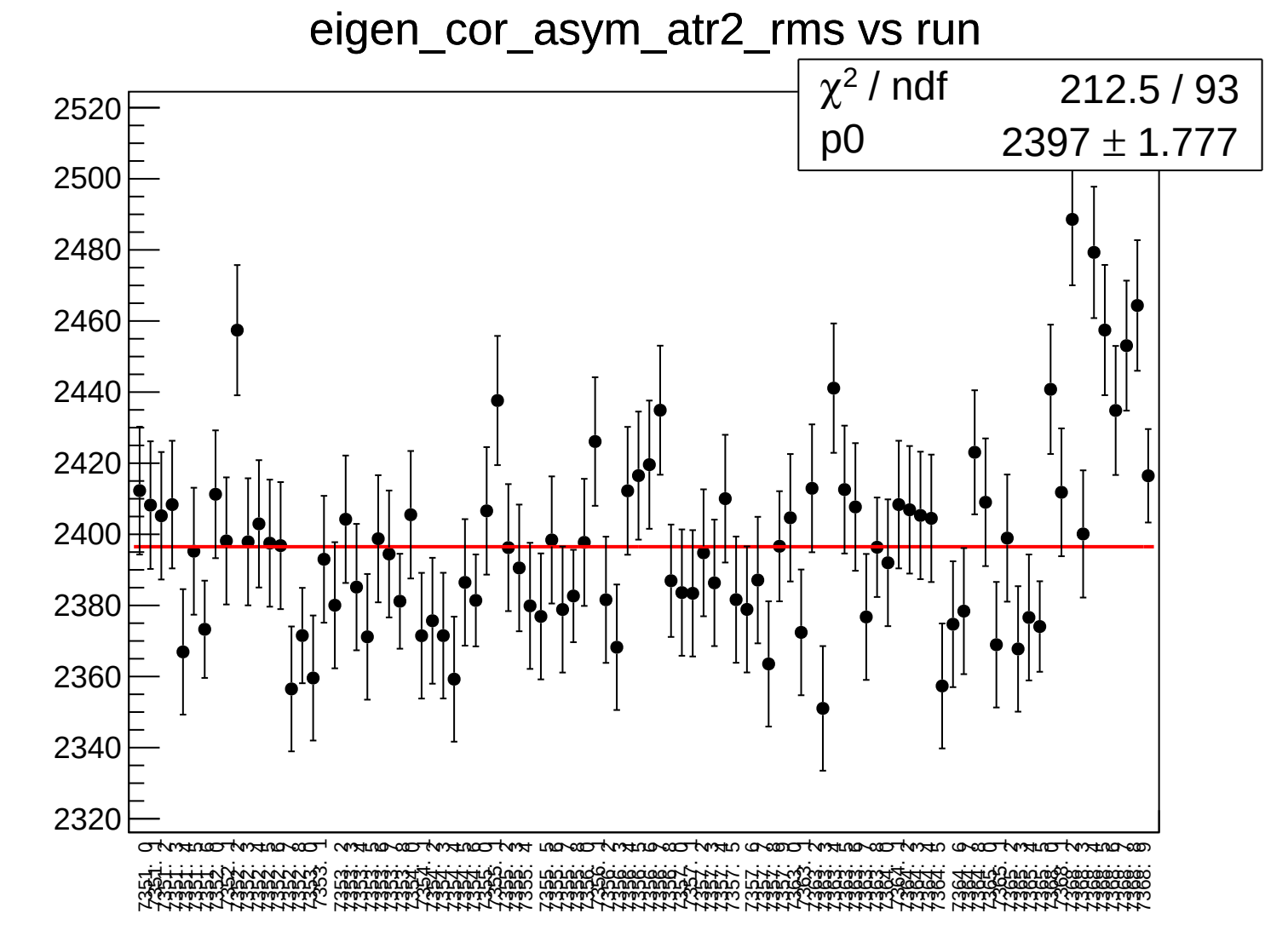

asym_atr2_cor_correction_mean vs run
×10^3
χ² / ndf 76.76 / 93
p0 1.093e+04 ± 1.19e+04
400
300
200
100
0
−100
−200
−300
pull
Entries 94
Mean −92.55
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

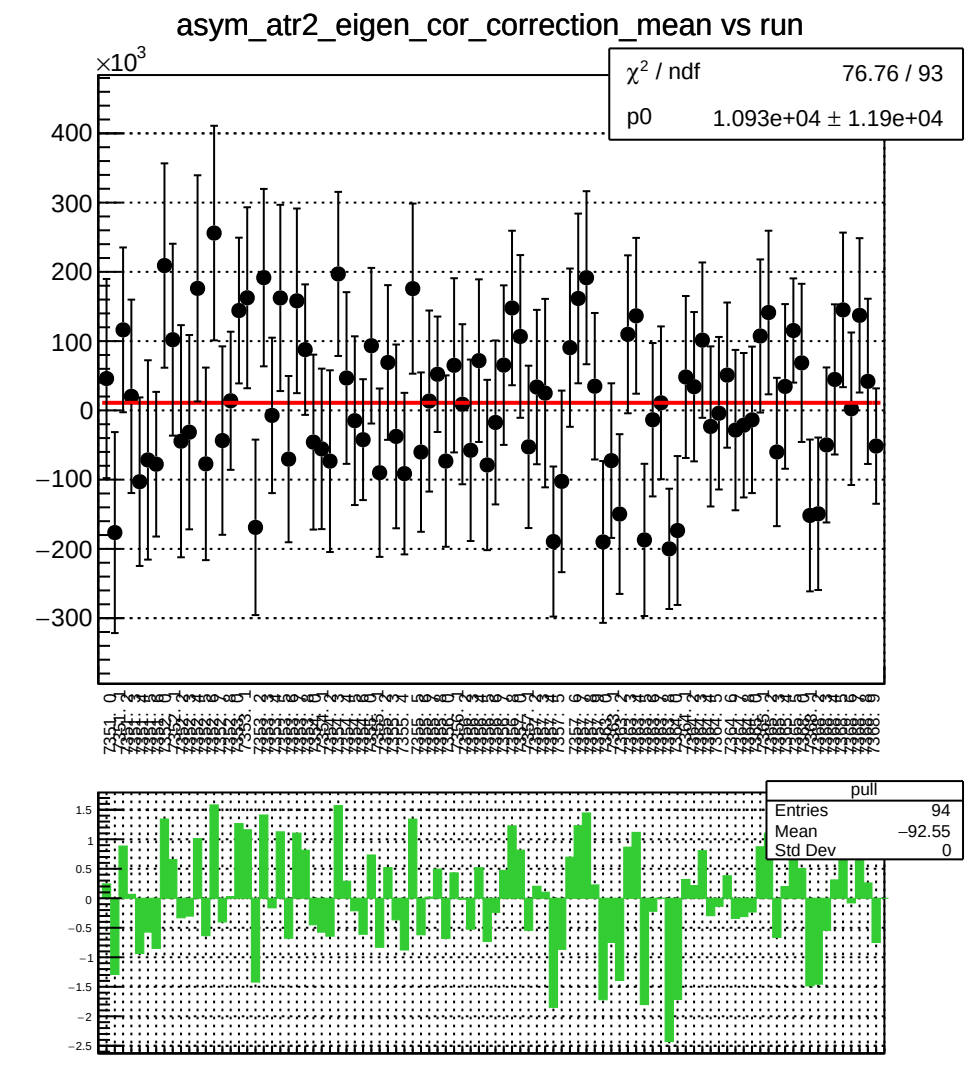

pull1D
Entries 94
Mean 0.01283
Std Dev 0.9036
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

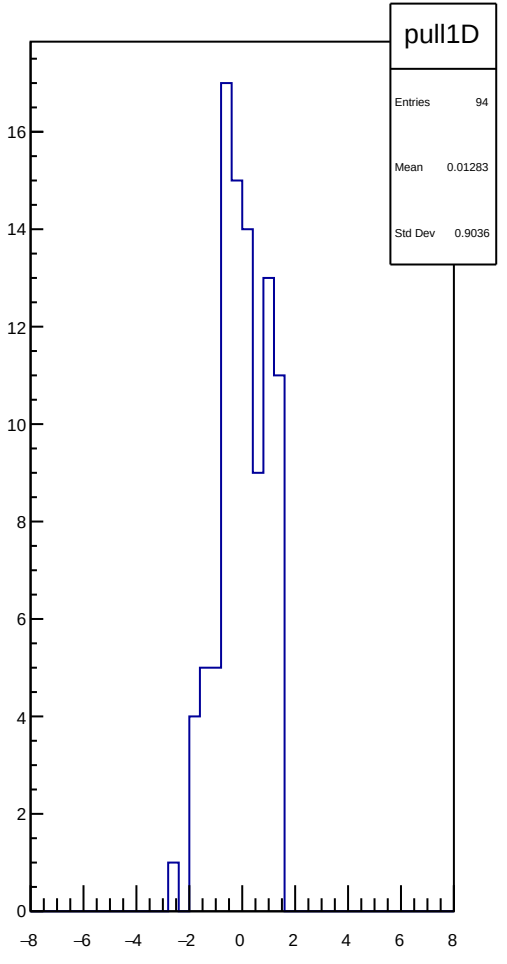

asym_atr2_cor_correction_rms vs run
χ² / ndf 1.587e+04 / 93
p0 1.129e+04 ± 8.412
16000
15000
14000
13000
12000
11000
10000

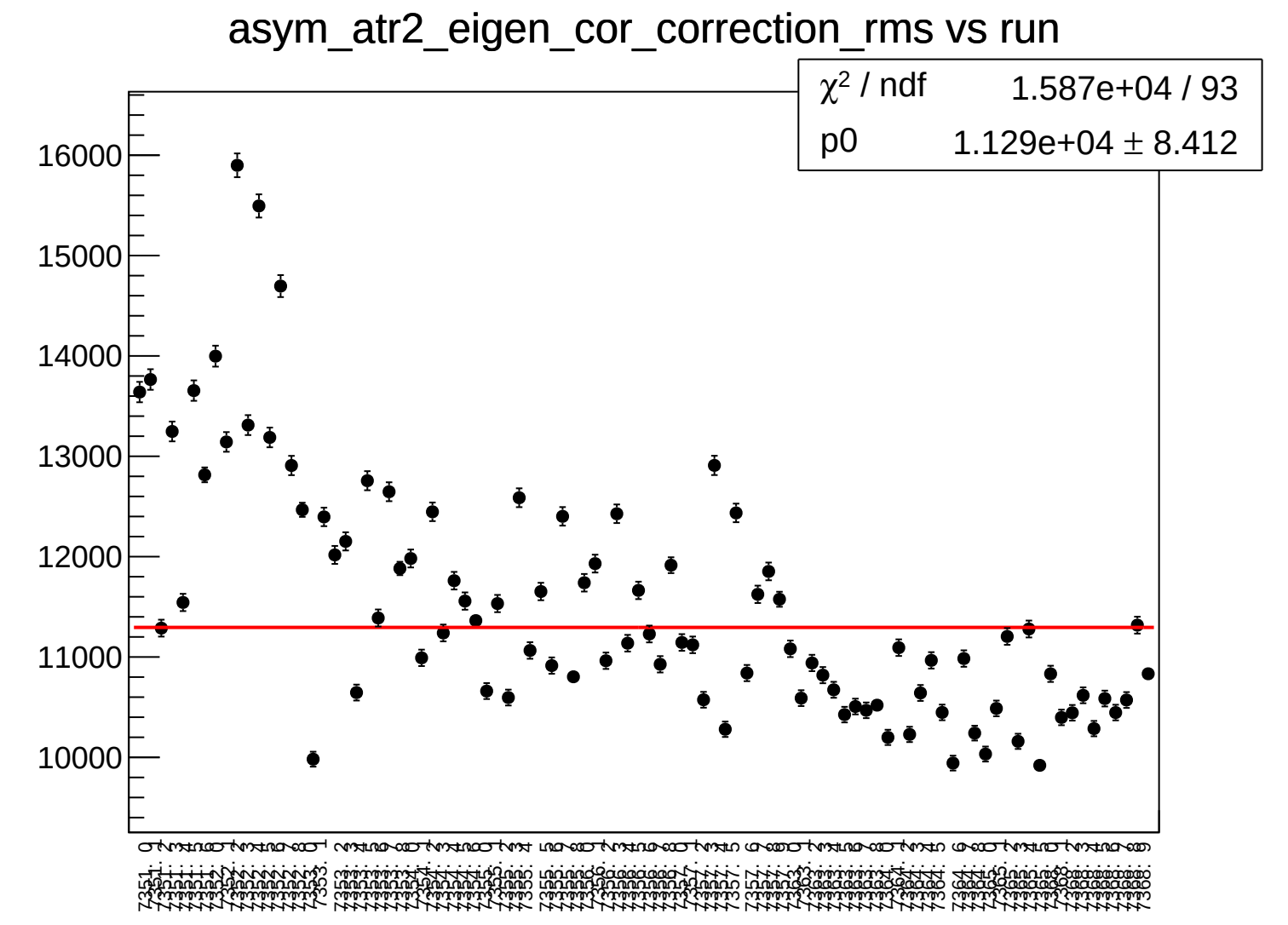

eigen_cor_asym_atr2_mean vs run
×10^3
χ² / ndf 100 / 93
p0 146.6 ± 2513
pull
Entries 94
Mean 384.8
Std Dev 0

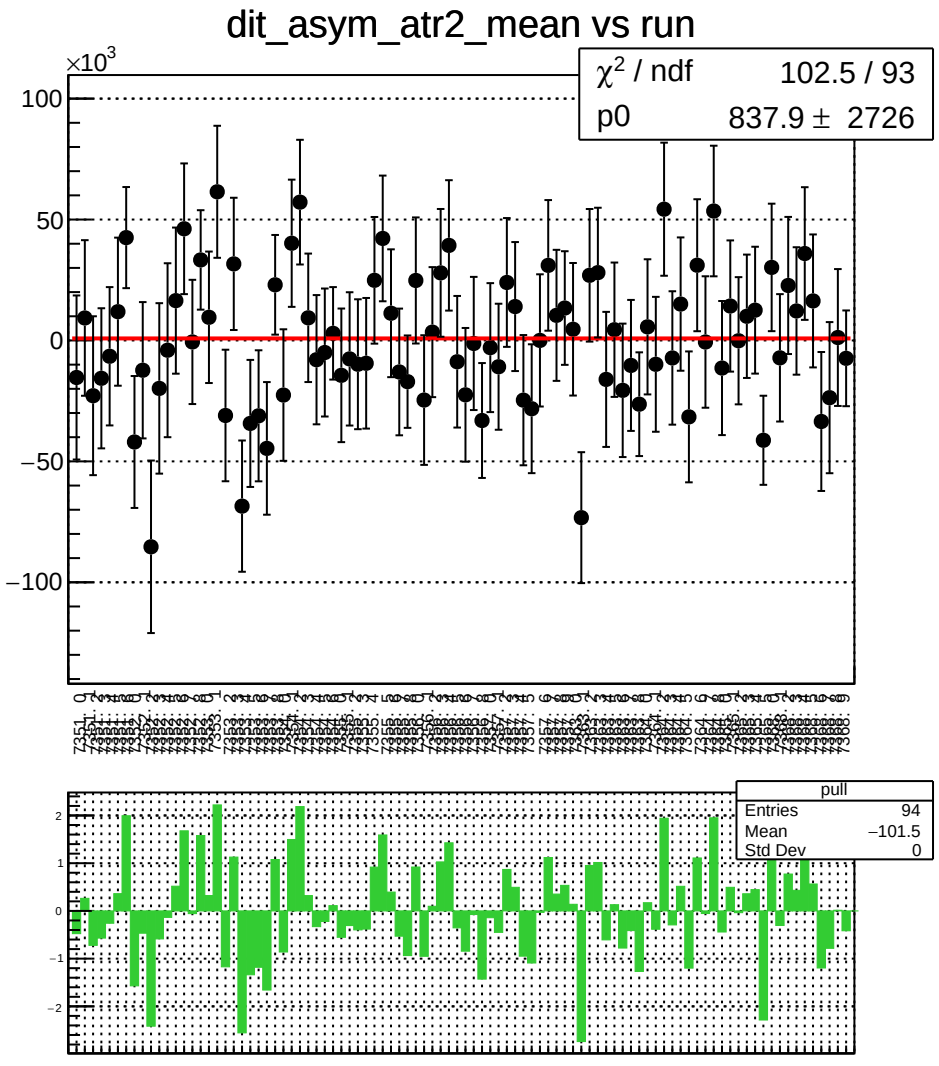

pull1D
Entries 94
Mean 0.001383
Std Dev 1.031

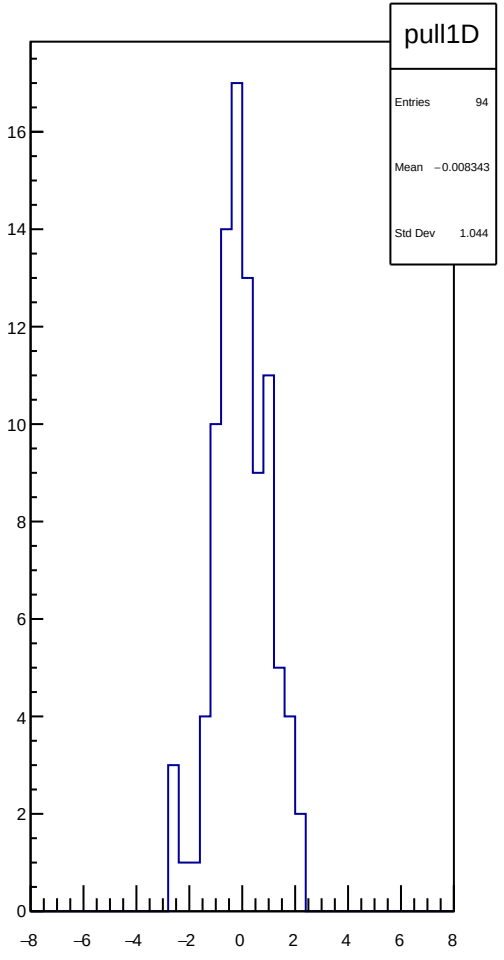

eigen_cor_asym_atr2_rms vs run
χ² / ndf 212.5 / 93
p0 2397 ± 1.777
2520
2500
2480
2460
2440
2420
2400
2380
2360
2340
2320

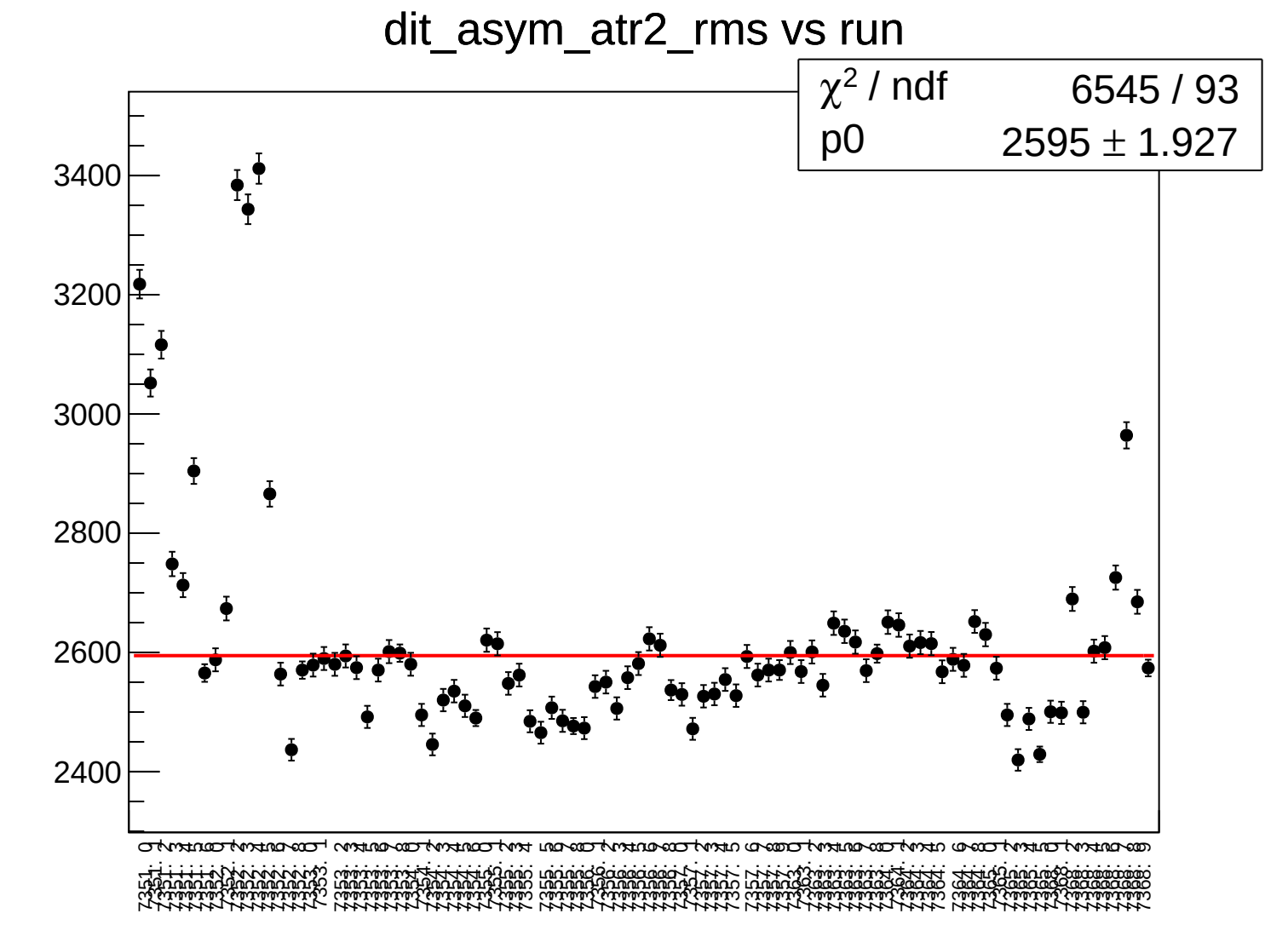

asym_atr2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 76.76 / 93
p0 1.093e+04 ± 1.19e+04
400
300
200
100
0
−100
−200
−300
pull
Entries 94
Mean −92.55
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

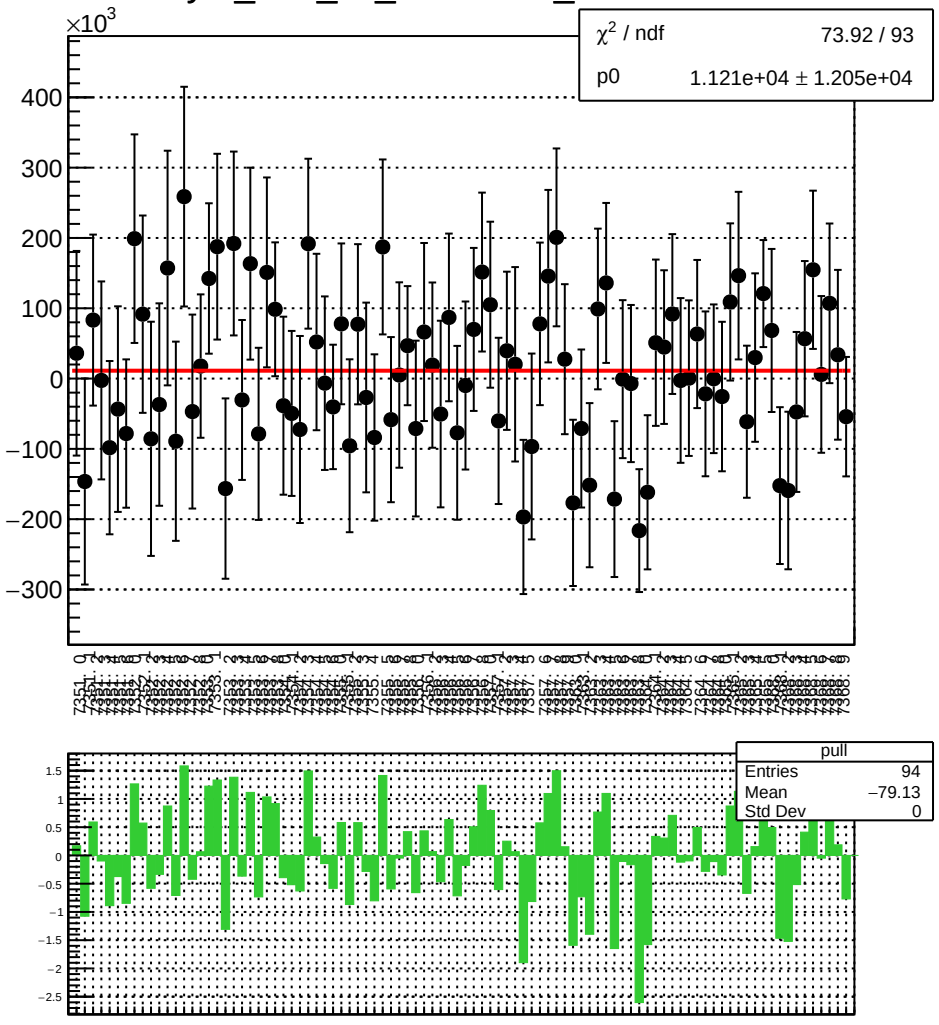

pull1D
Entries 94
Mean 0.01283
Std Dev 0.9036
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

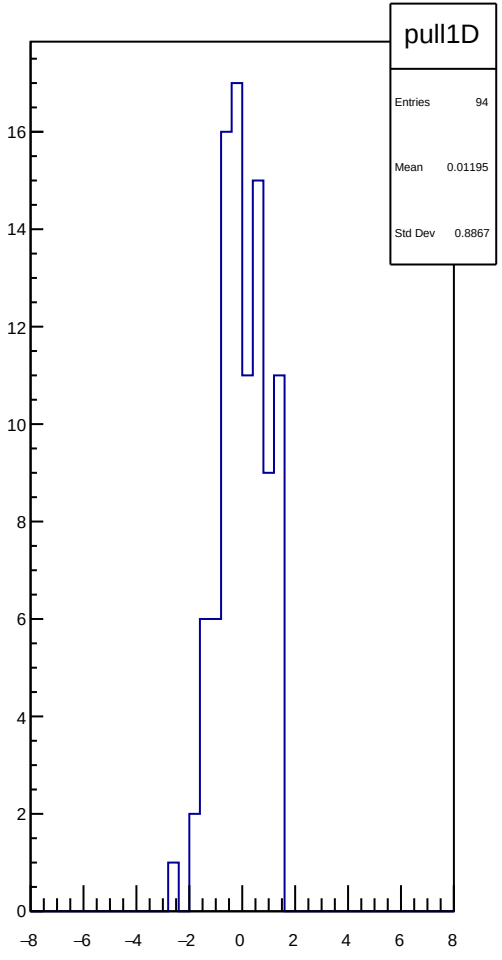

asym_atr2_eigen_cor_correction_rms vs run
χ² / ndf 1.587e+04 / 93
p0 1.129e+04 ± 8.412
16000
15000
14000
13000
12000
11000
10000

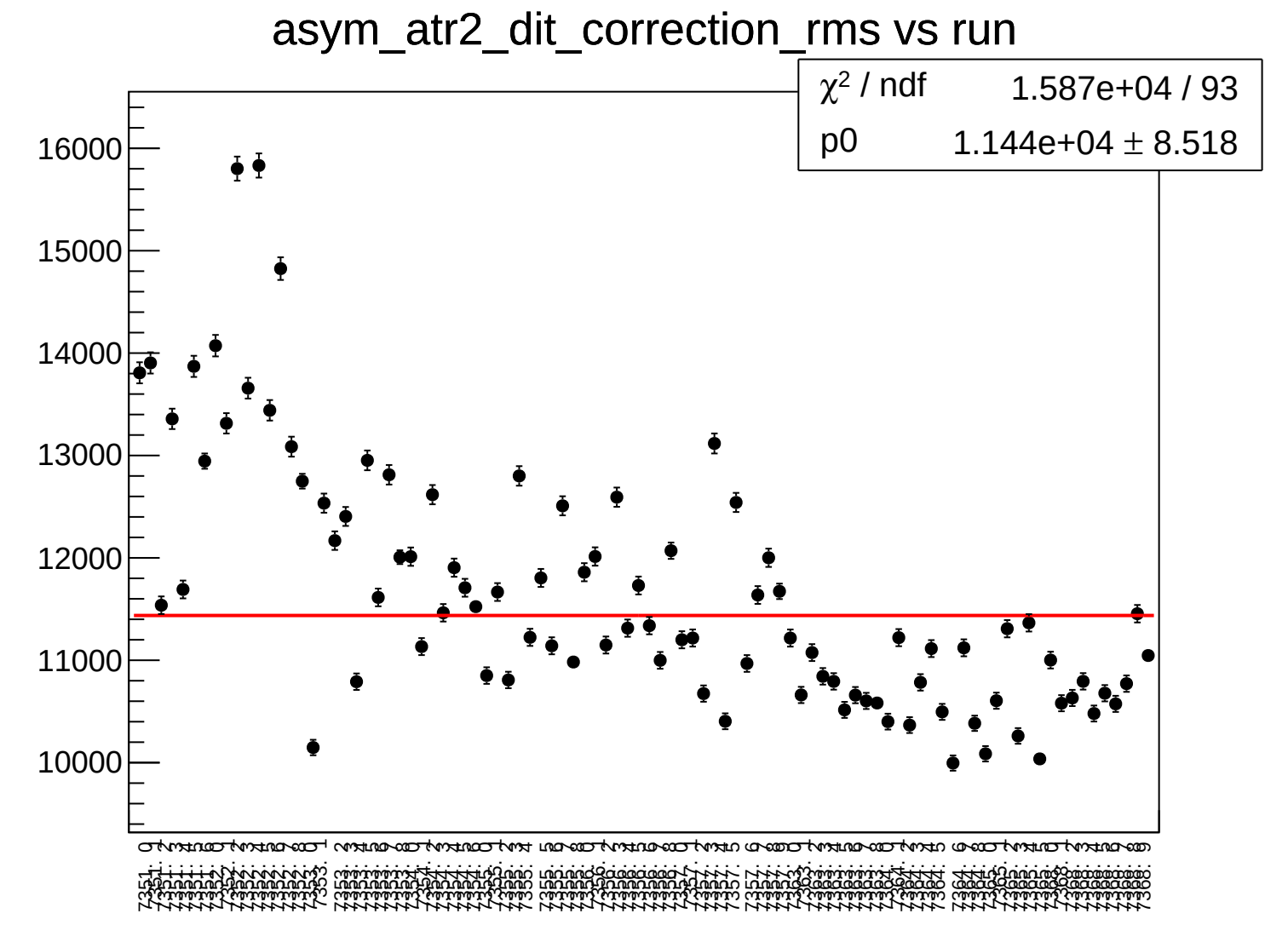

dit_asym_atr2_mean vs run
×10^3
χ^2 / ndf 102.5 / 93
p0 837.9 ± 2726
pull
Entries 94
Mean −101.5
Std Dev 0

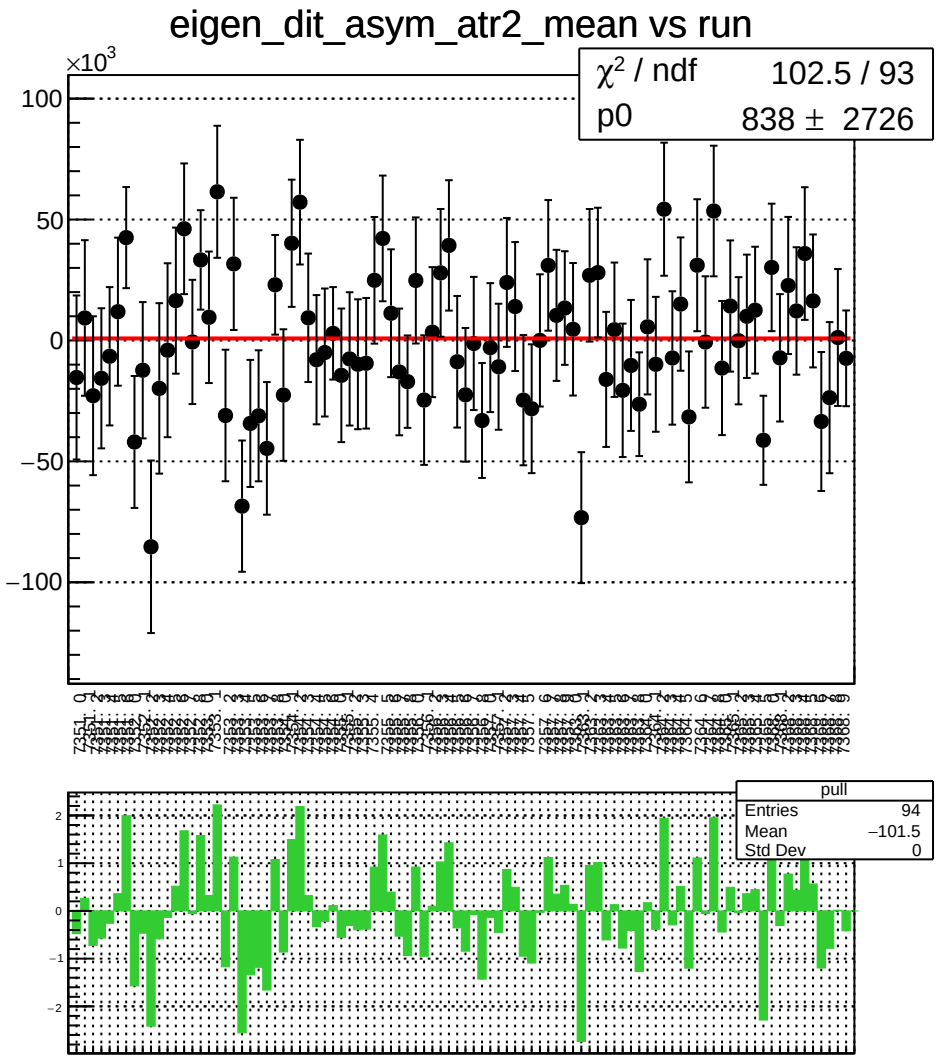

pull1D
Entries 94
Mean −0.008343
Std Dev 1.044

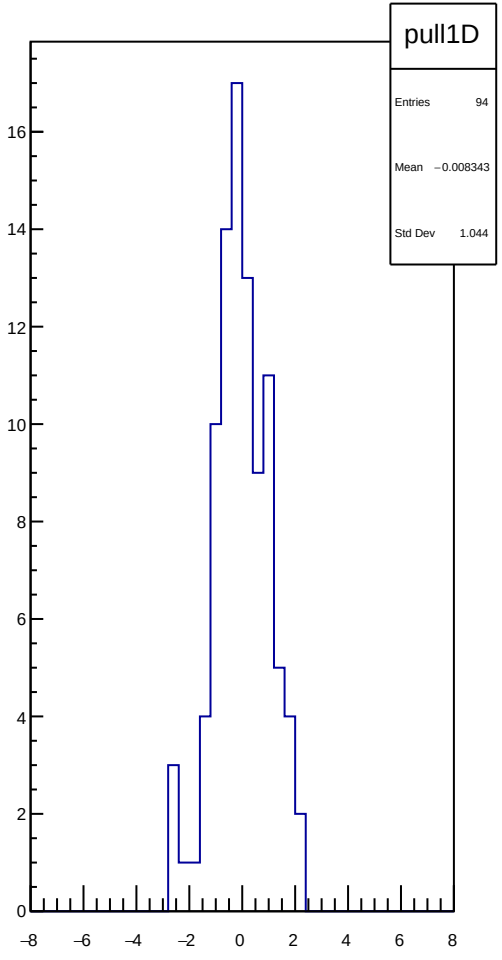

dit_asym_atr2_rms vs run
χ² / ndf 6545 / 93
p0 2595 ± 1.927
3400
3200
3000
2800
2600
2400

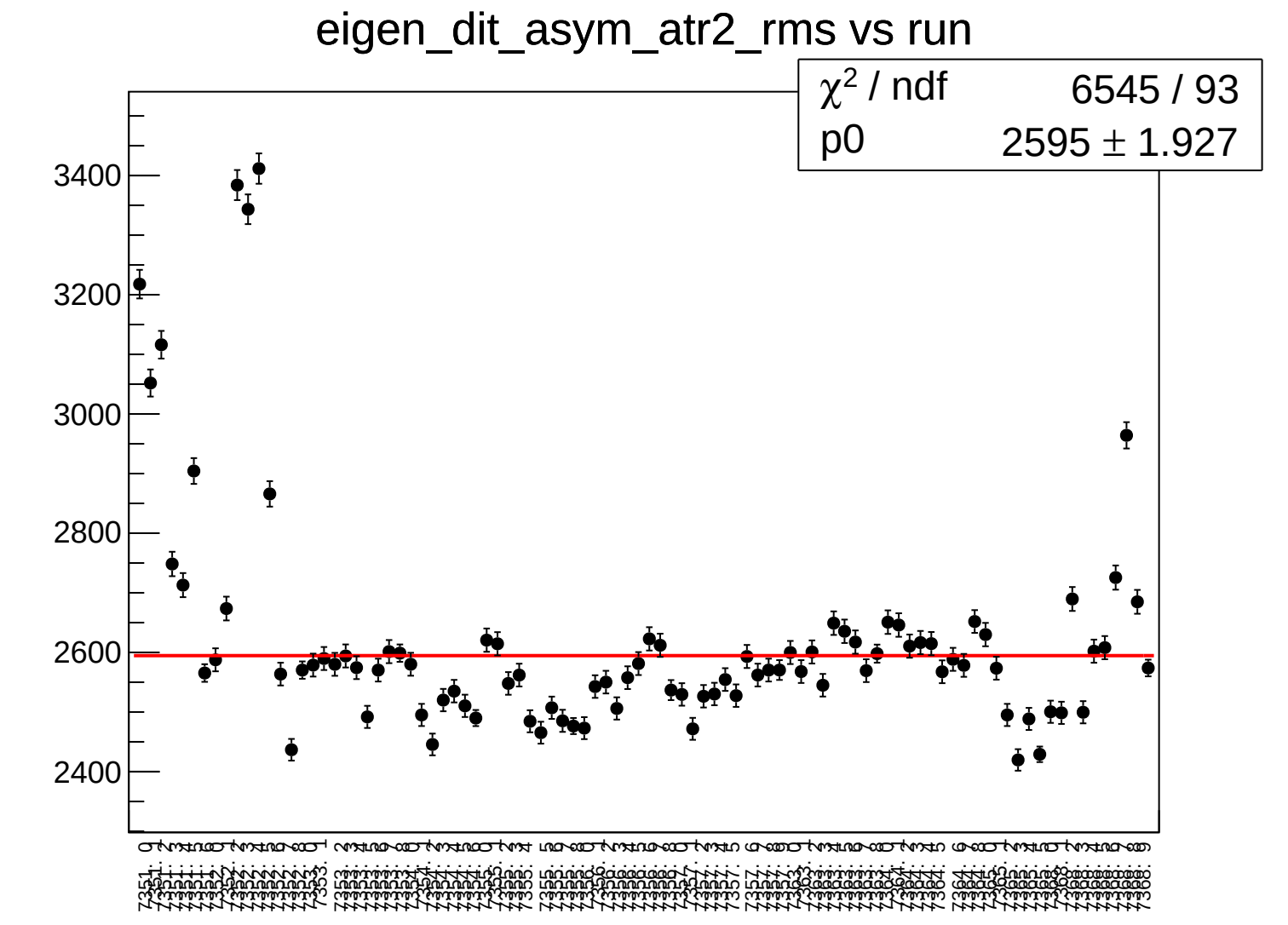

asym_atr2_dit_correction_mean vs run
×10^3
χ² / ndf 73.92 / 93
p0 1.121e+04 ± 1.205e+04
pull
Entries 94
Mean −79.13
Std Dev 0

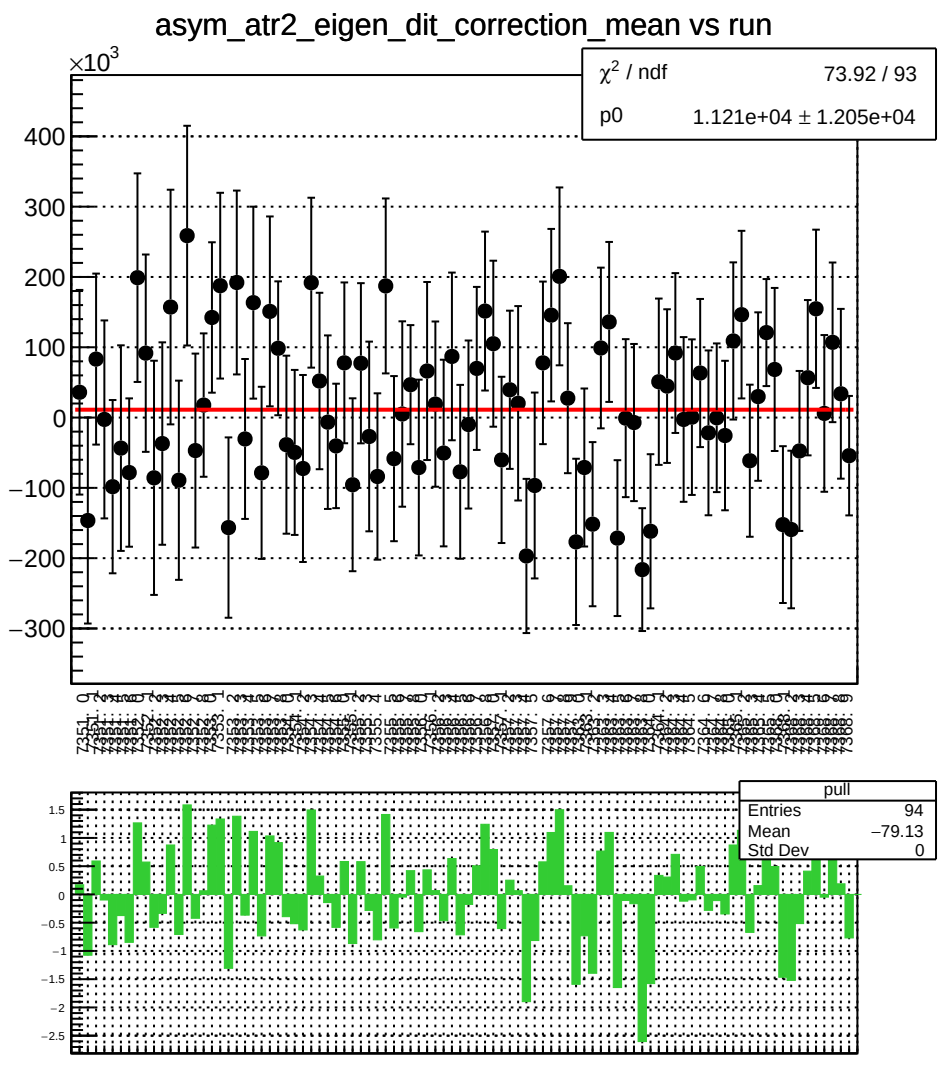

pull1D
Entries 94
Mean 0.01195
Std Dev 0.8867

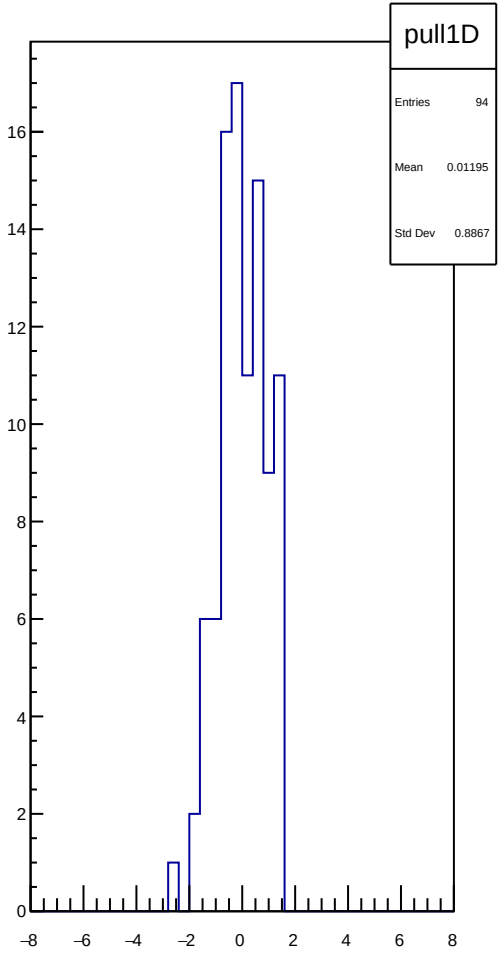

asym_atr2_dit_correction_rms vs run
χ² / ndf 1.587e+04 / 93
p0 1.144e+04 ± 8.518
16000
15000
14000
13000
12000
11000
10000

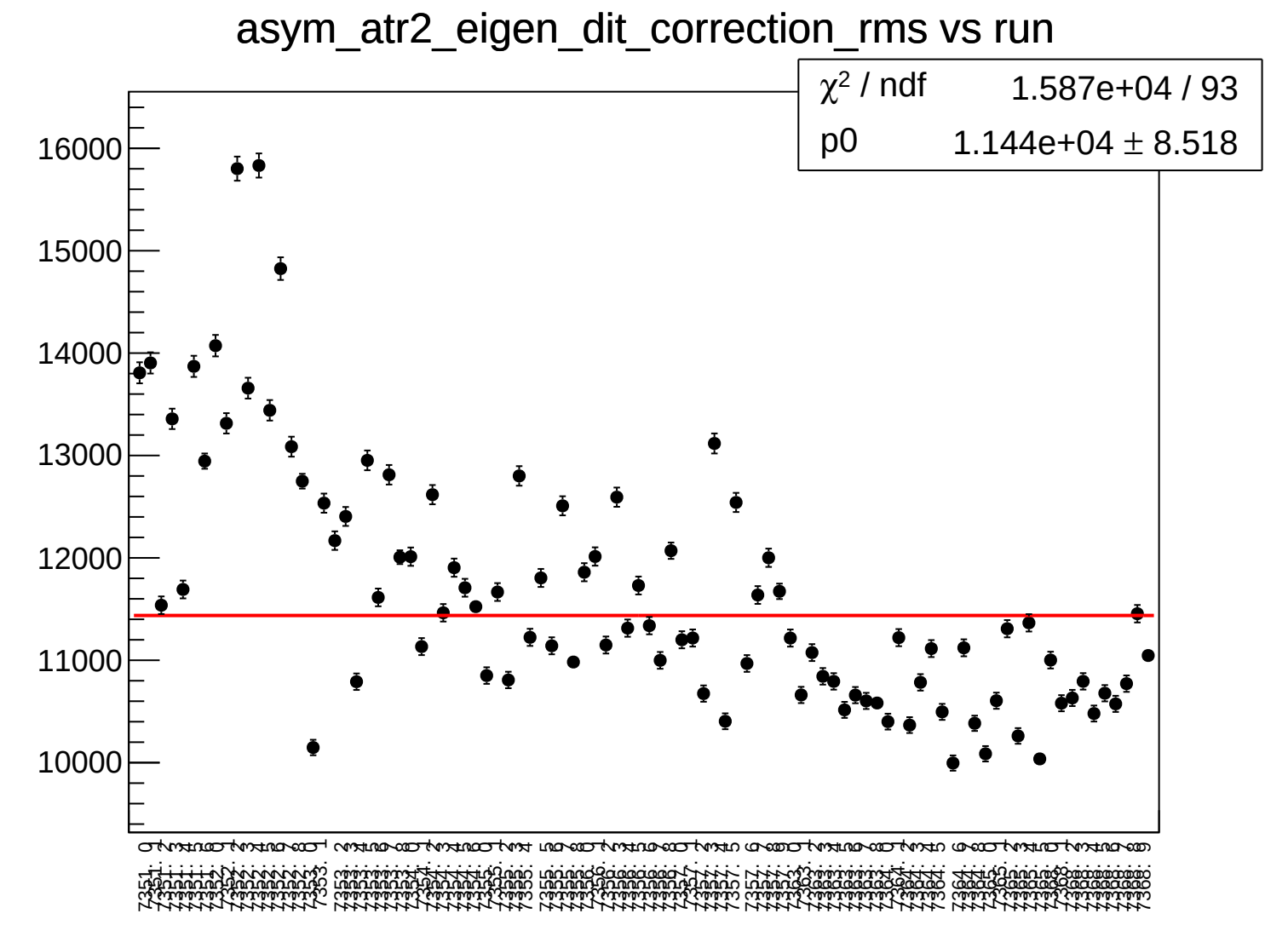

eigen_dit_asym_atr2_mean vs run
×10^3
χ² / ndf 102.5 / 93
p0 838 ± 2726
pull
Entries 94
Mean −101.5
Std Dev 0

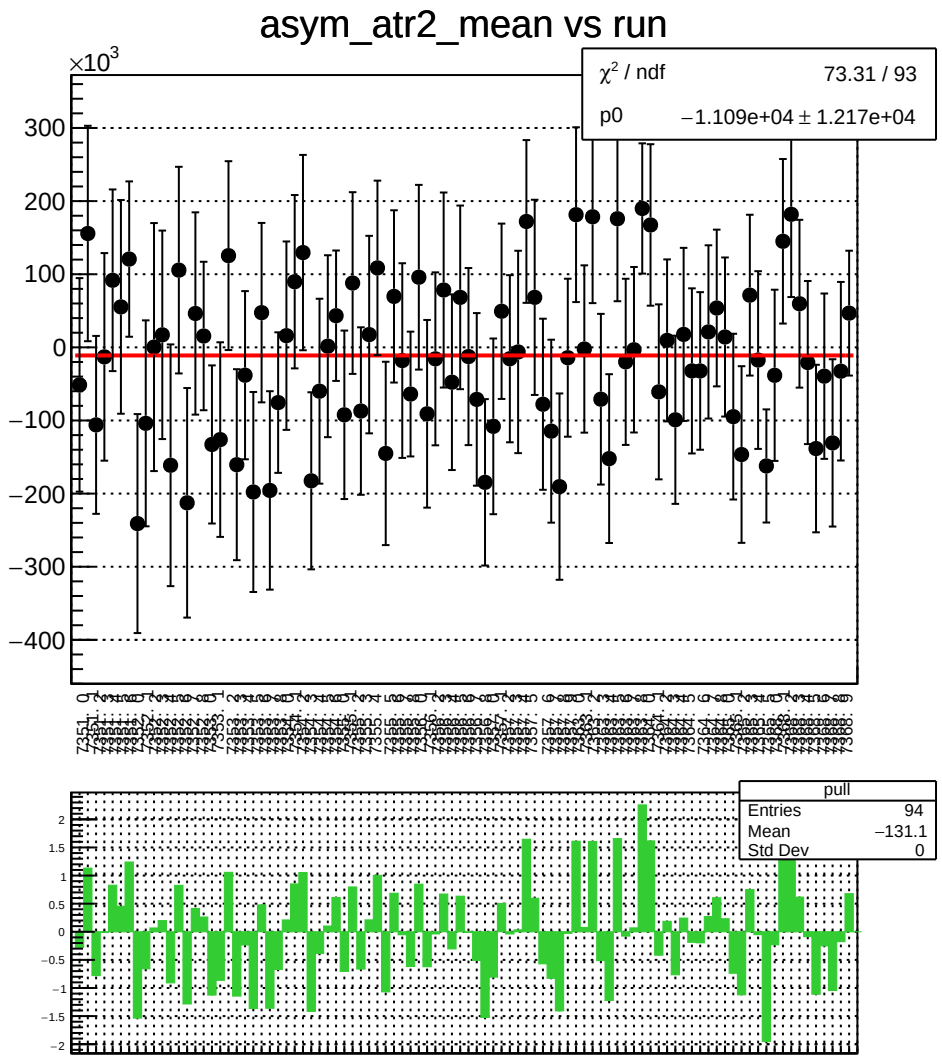

pull1D
Entries 94
Mean −0.008343
Std Dev 1.044

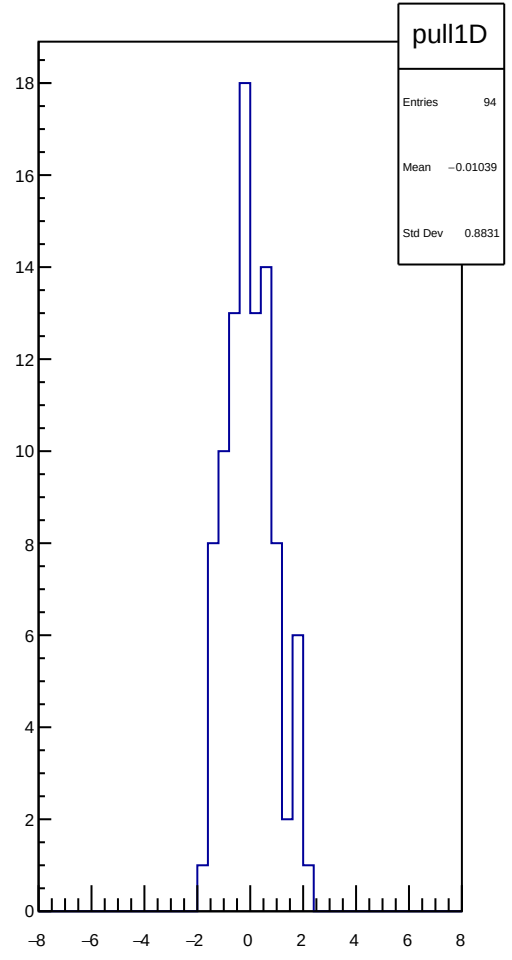

eigen_dit_asym_atr2_rms vs run
χ² / ndf 6545 / 93
p0 2595 ± 1.927
3400
3200
3000
2800
2600
2400

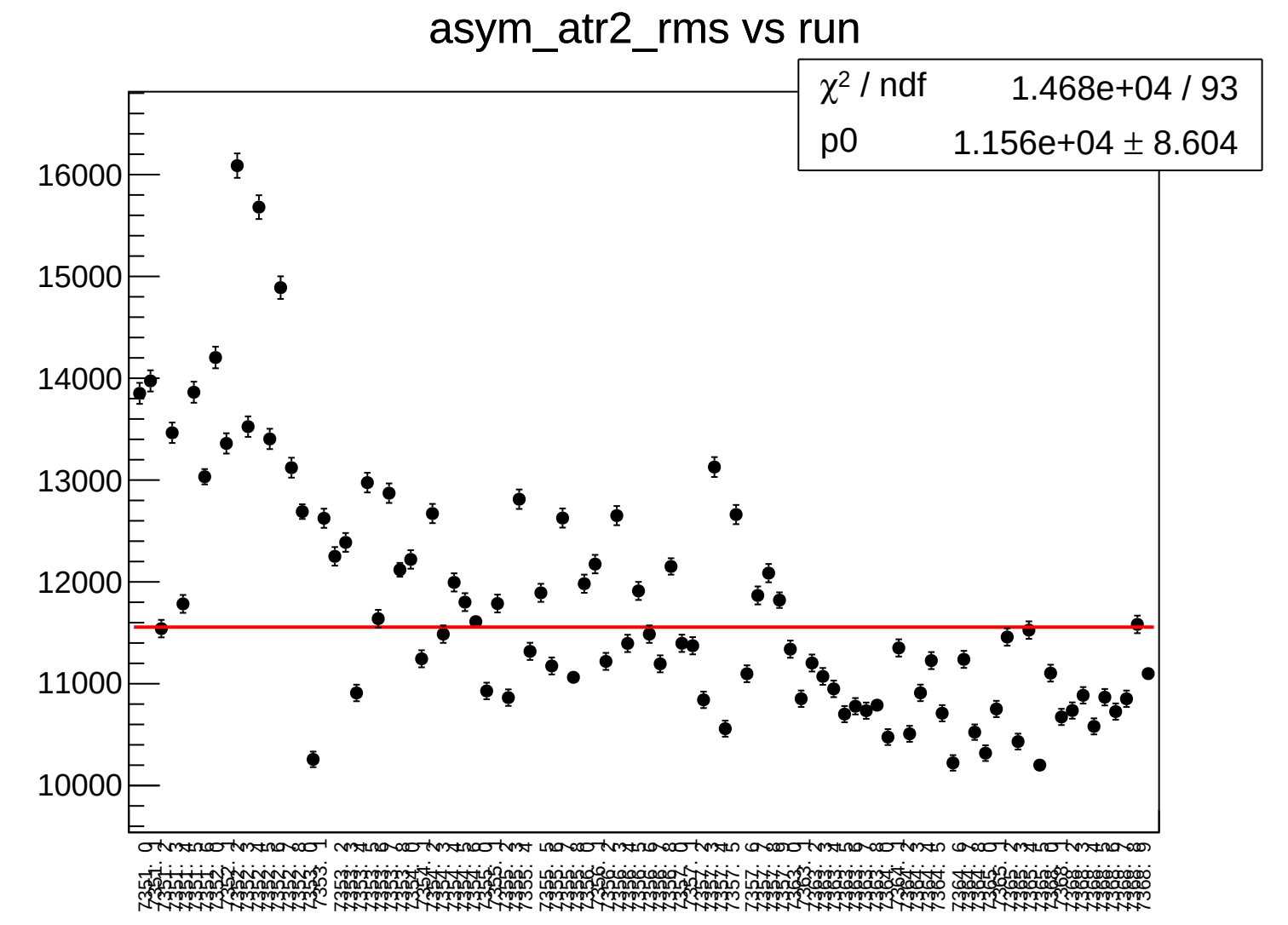

asym_atr2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 73.92 / 93
p0 1.121e+04 ± 1.205e+04
400
300
200
100
0
−100
−200
−300
pull
Entries 94
Mean −79.13
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

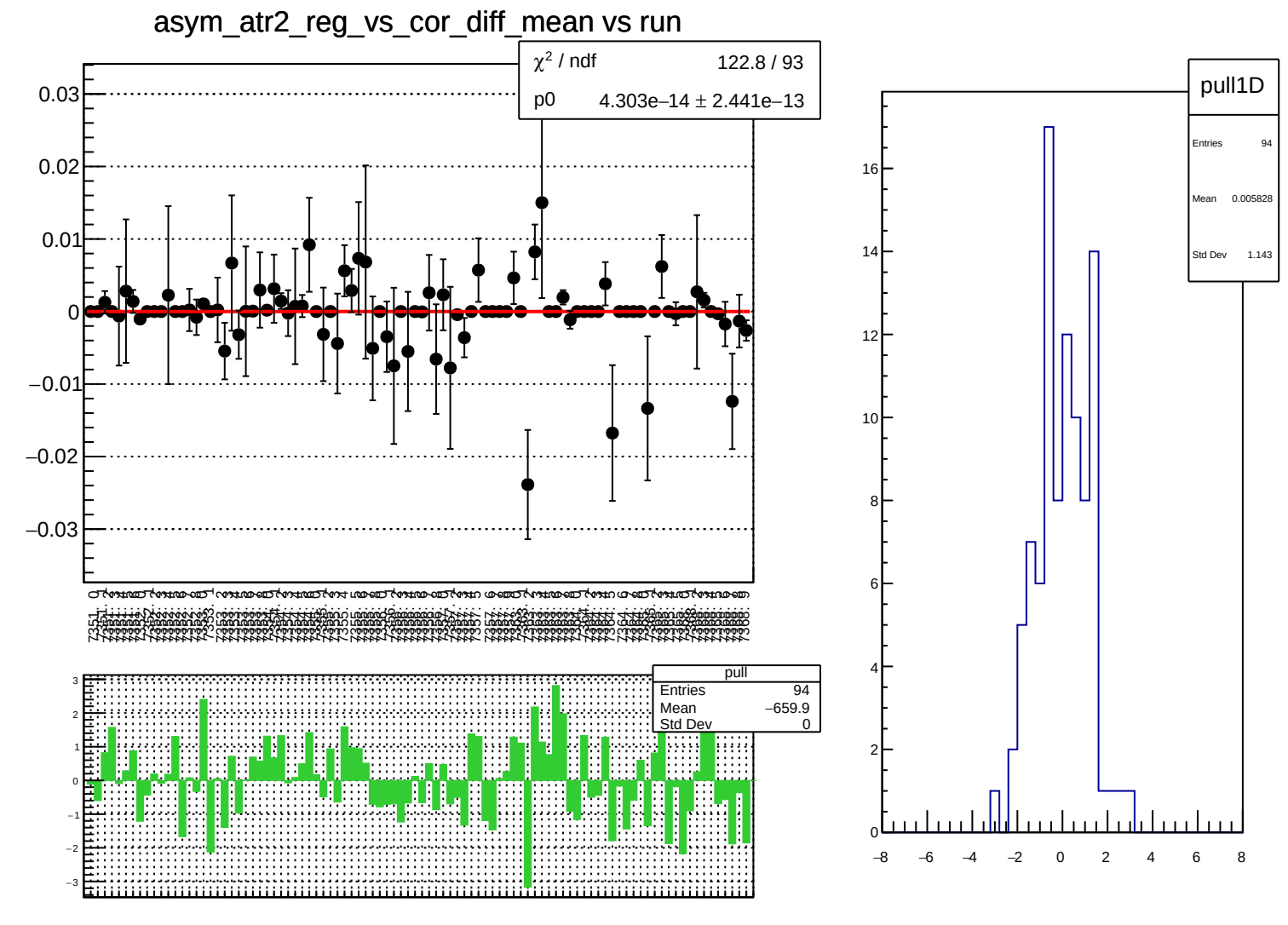

pull1D
Entries 94
Mean 0.01195
Std Dev 0.8867
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

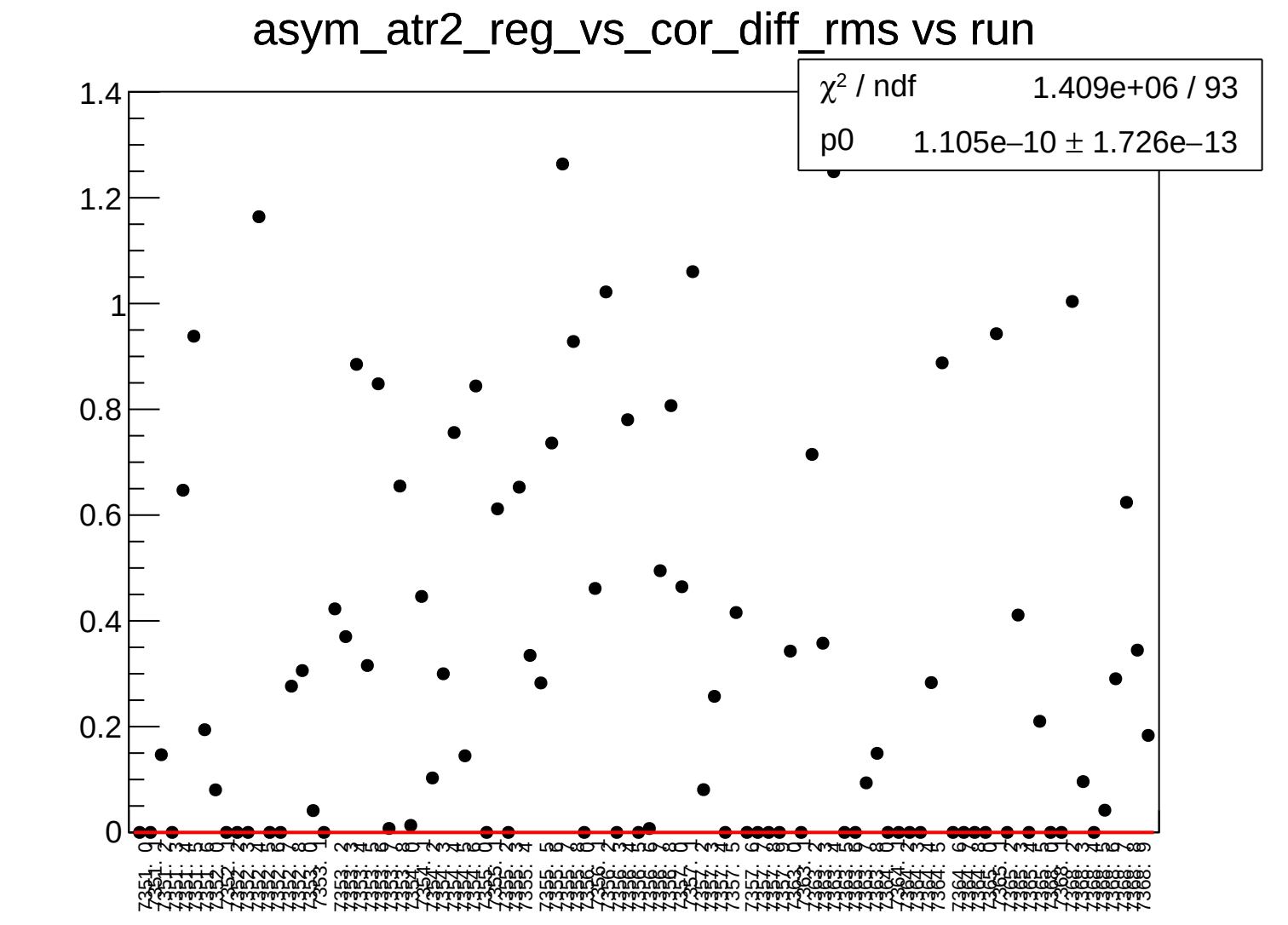

asym_atr2_eigen_dit_correction_rms vs run
χ² / ndf 1.587e+04 / 93
p0 1.144e+04 ± 8.518
16000
15000
14000
13000
12000
11000
10000

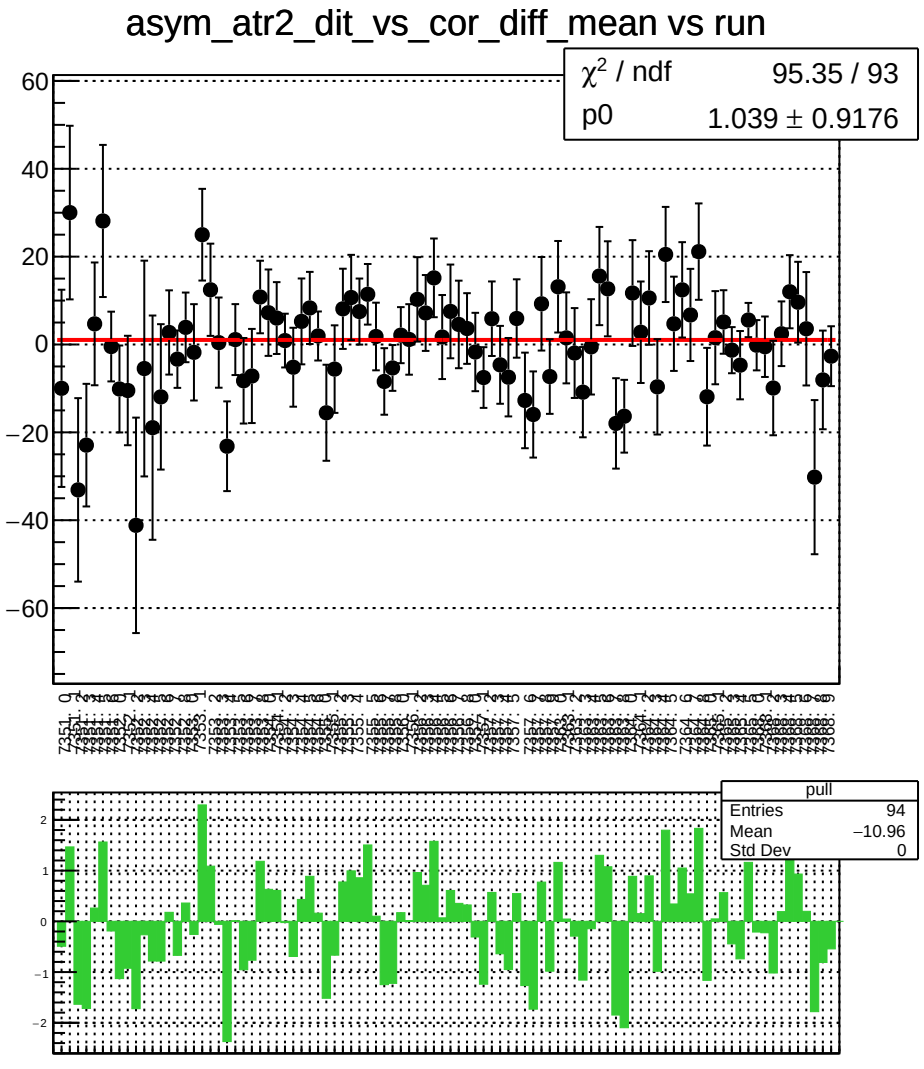

asym_atr2_mean vs run
×10^3
χ² / ndf 73.31 / 93
p0 −1.109e+04 ± 1.217e+04
pull
Entries 94
Mean −131.1
Std Dev 0

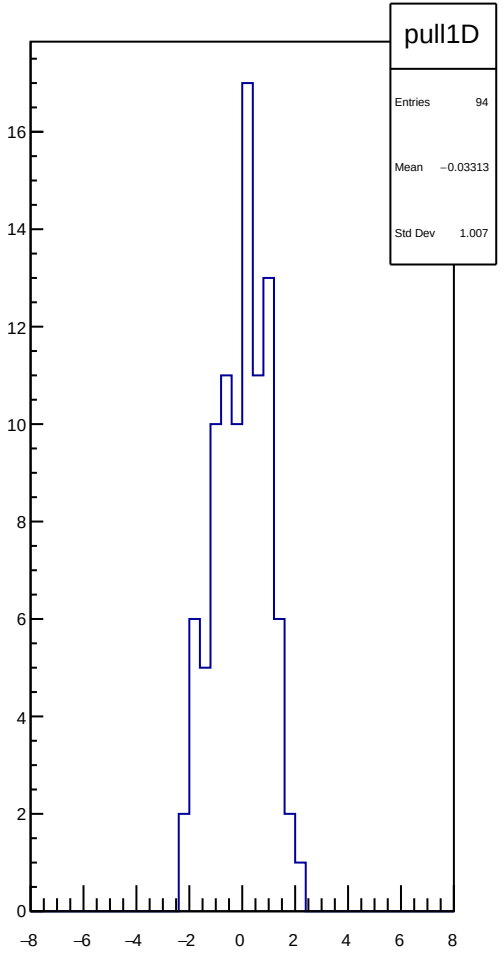

pull1D
Entries 94
Mean −0.01039
Std Dev 0.8831

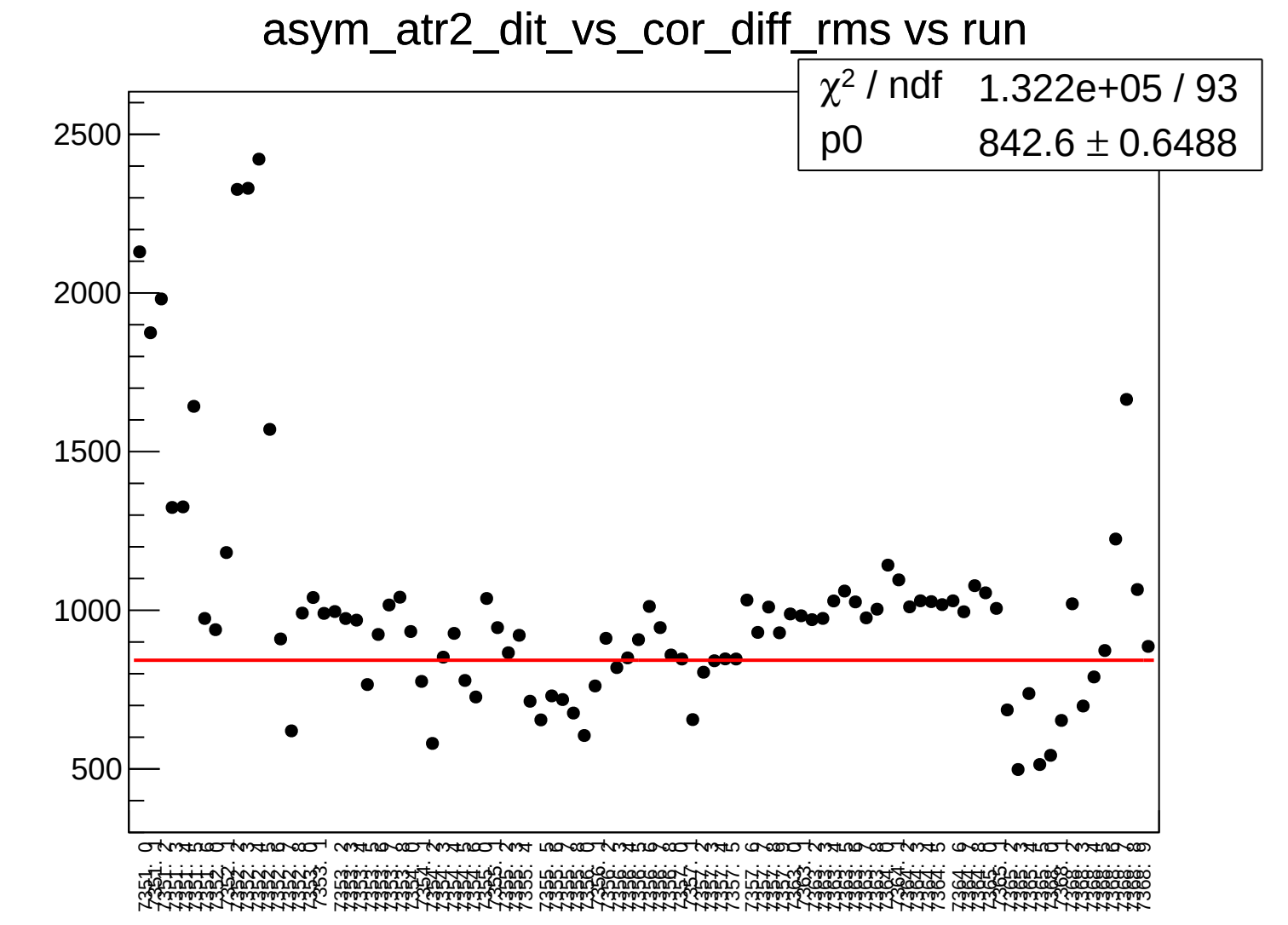

asym_atr2_rms vs run
χ² / ndf 1.468e+04 / 93
p0 1.156e+04 ± 8.604
16000
15000
14000
13000
12000
11000
10000

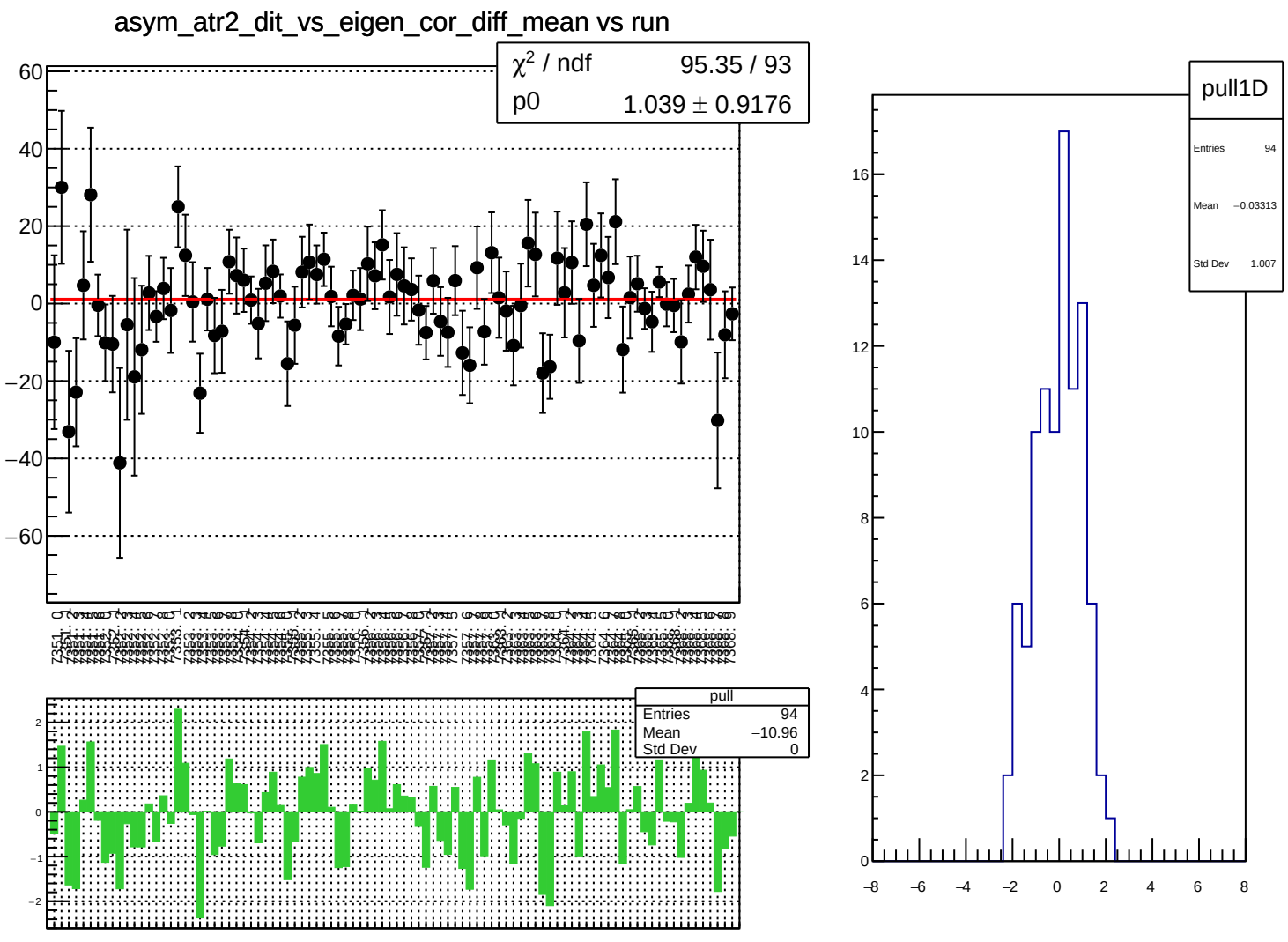

asym_atr2_reg_vs_cor_diff_mean vs run
χ² / ndf 122.8 / 93
p0 4.303e−14 ± 2.441e−13
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 94
Mean −659.9
Std Dev 0
pull1D
Entries 94
Mean 0.005828
Std Dev 1.143
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

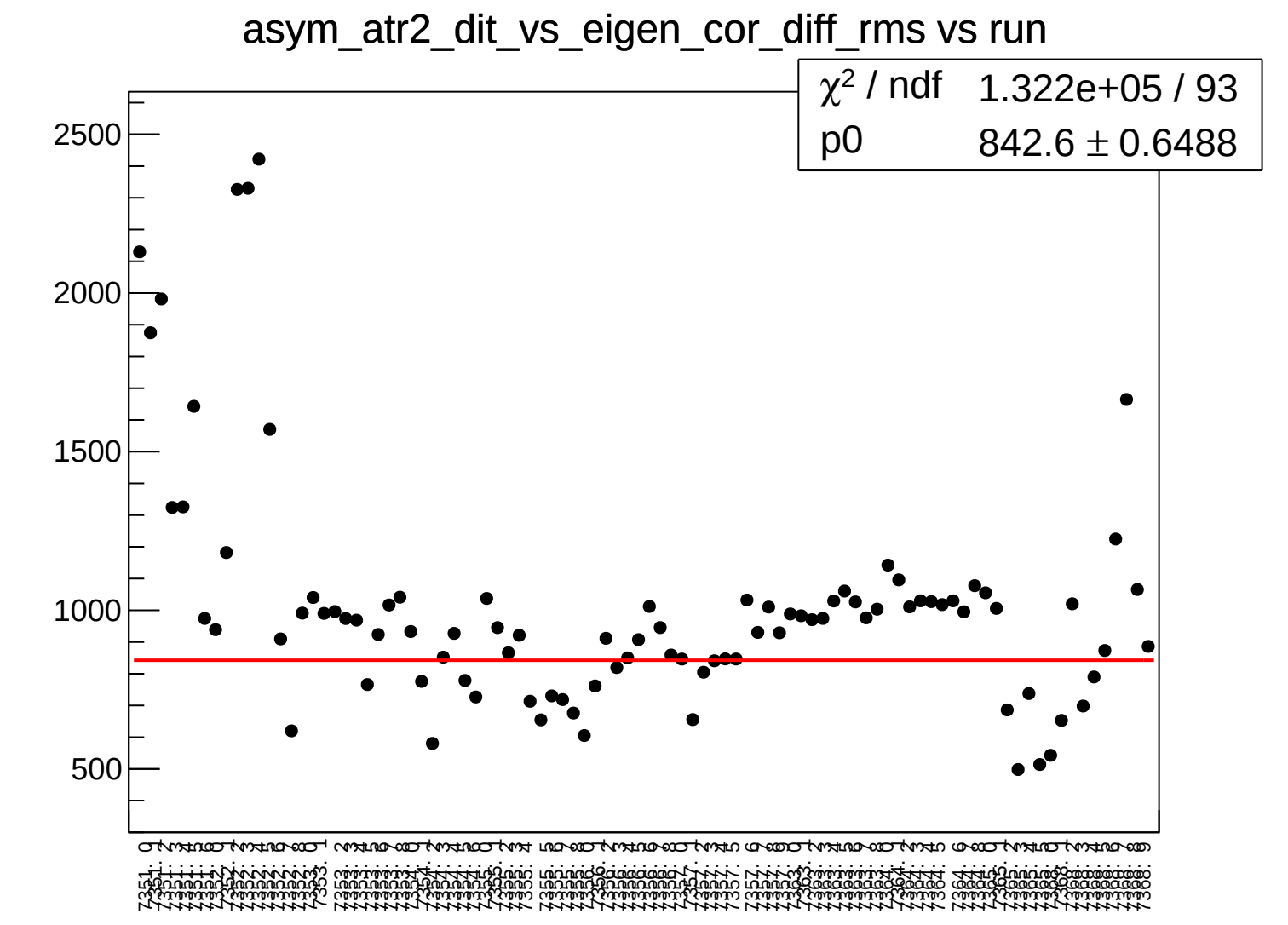

asym_atr2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.409e+06 / 93
p0 1.105e−10 ± 1.726e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

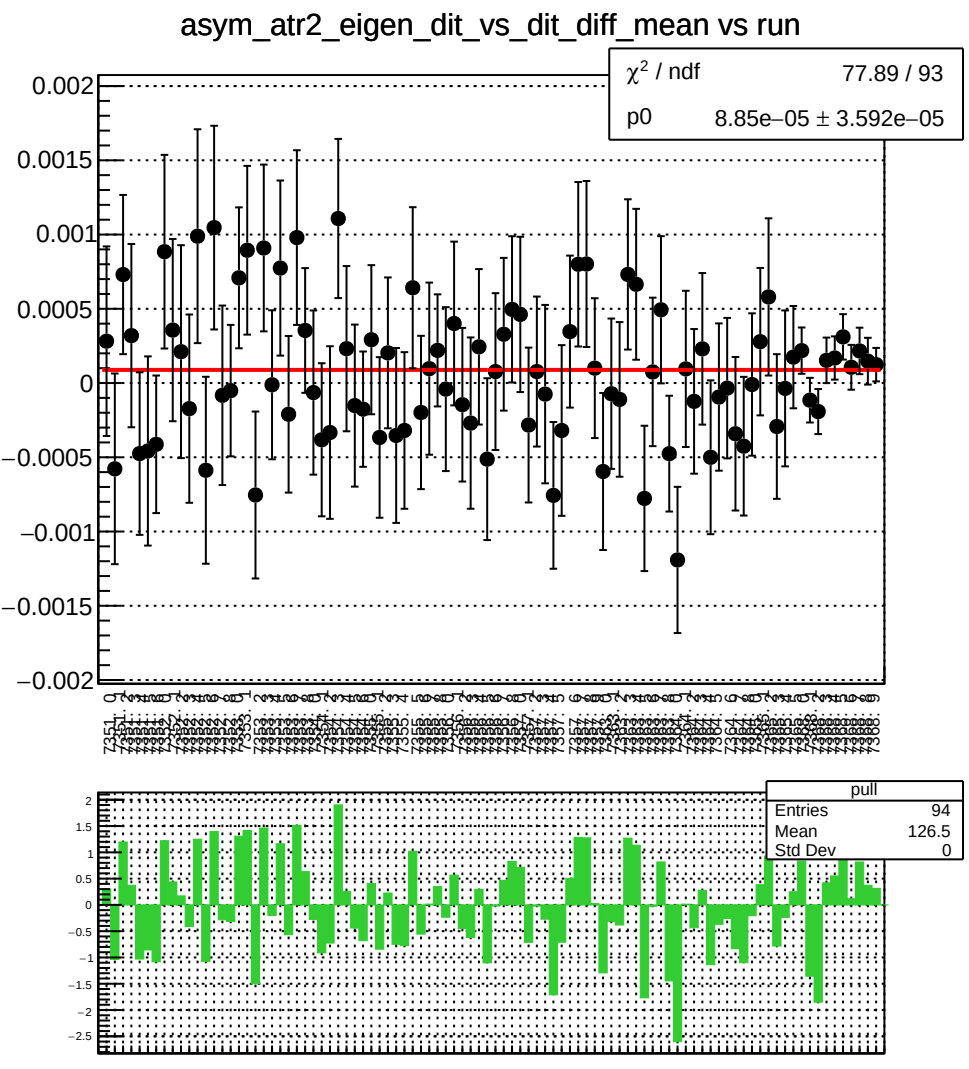

asym_atr2_dit_vs_cor_diff_mean vs run
χ² / ndf 95.35 / 93
p0 1.039 ± 0.9176
pull
Entries 94
Mean −10.96
Std Dev 0

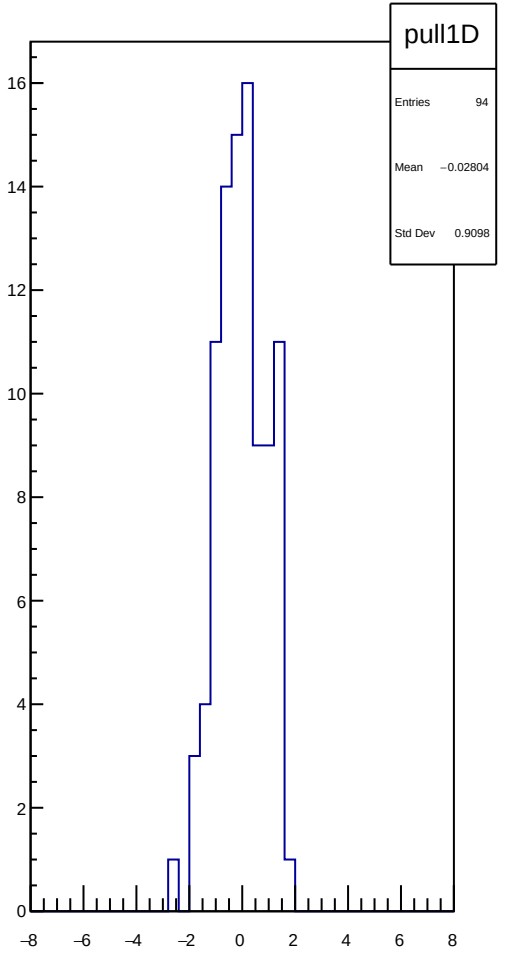

pull1D
Entries 94
Mean −0.03313
Std Dev 1.007

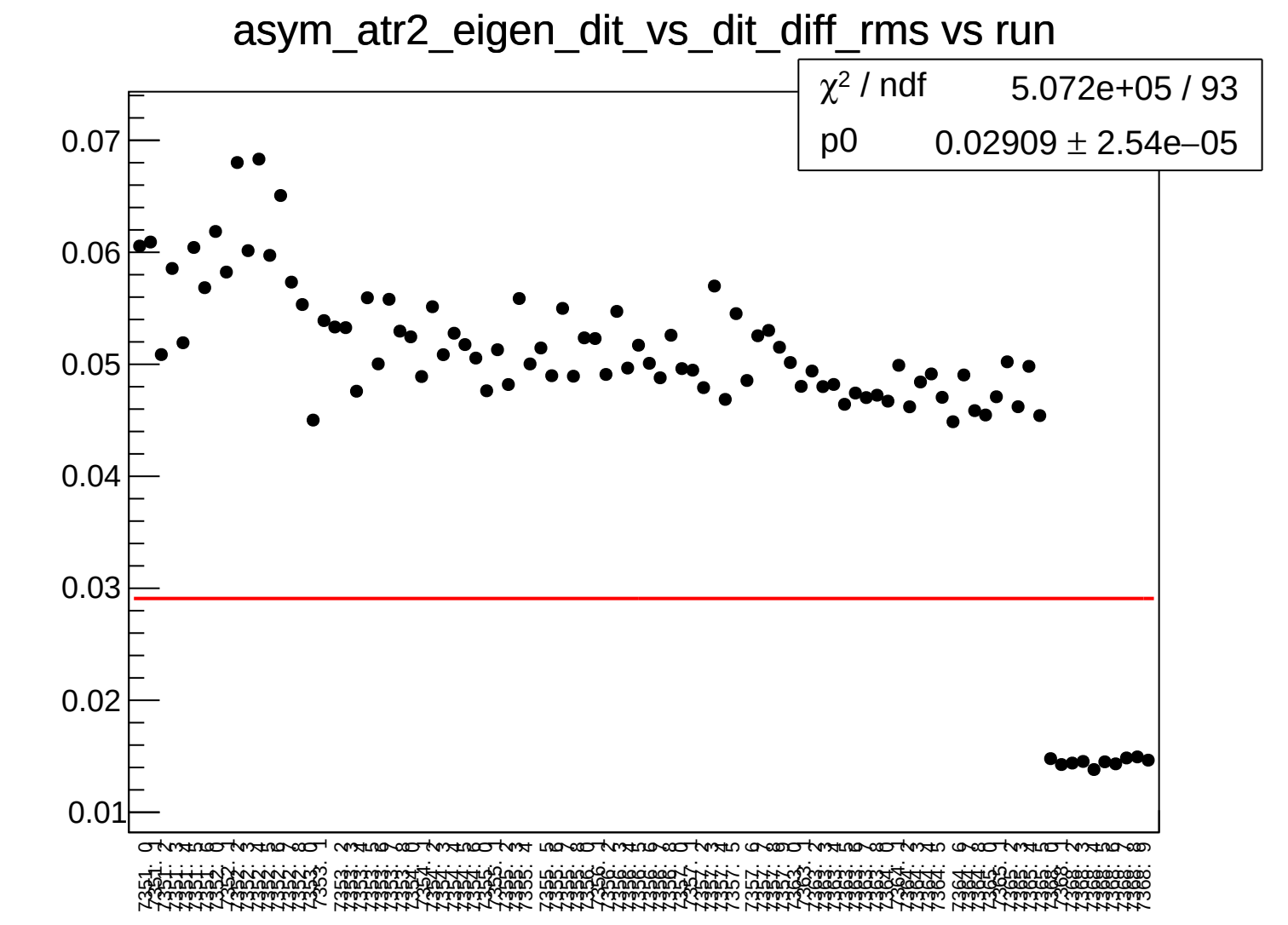

asym_atr2_dit_vs_cor_diff_rms vs run
χ² / ndf 1.322e+05 / 93
p0 842.6 ± 0.6488
2500
2000
1500
1000
500

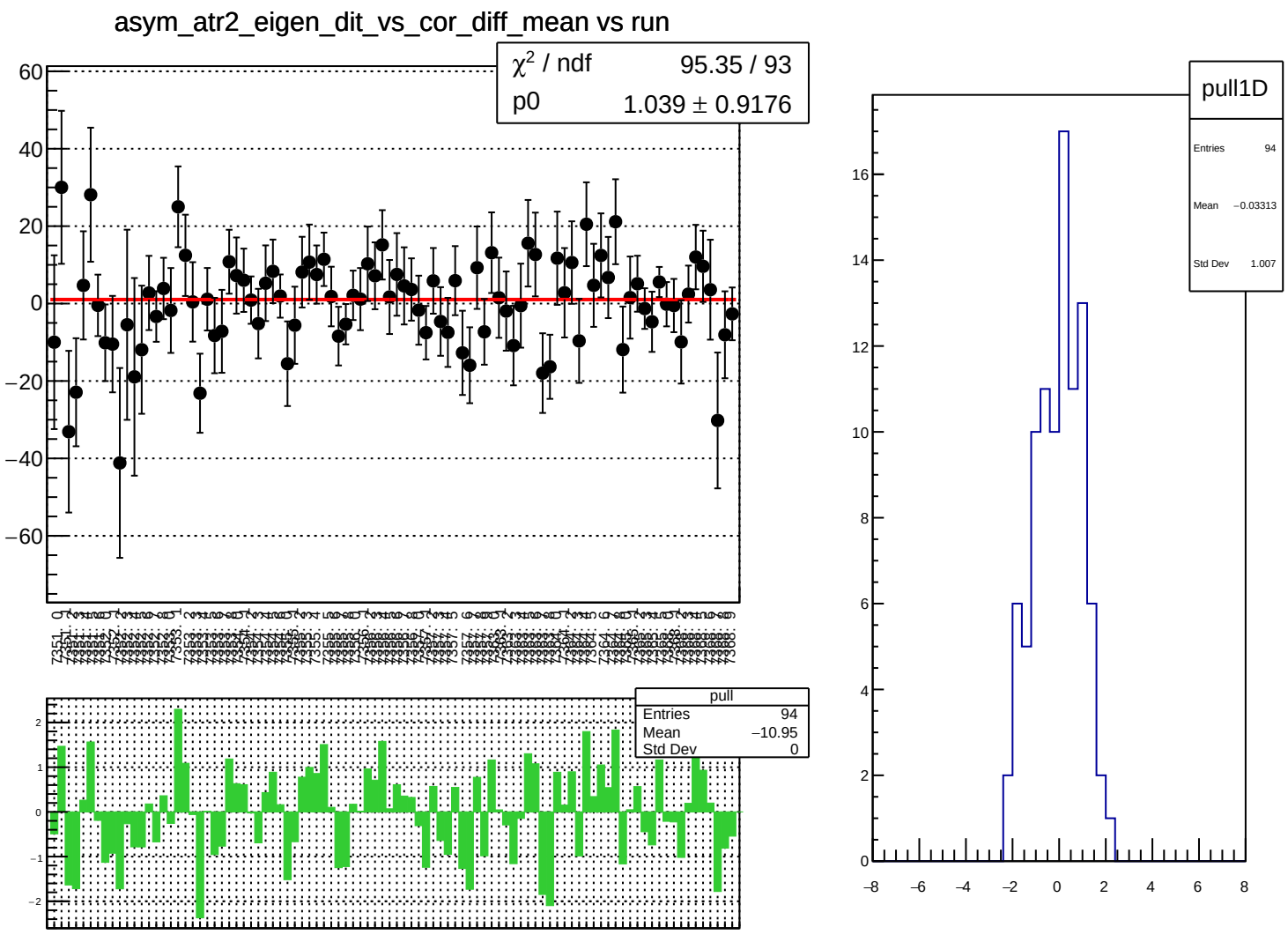

asym_atr2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.35 / 93
p0 1.039 ± 0.9176
pull
Entries 94
Mean −10.96
Std Dev 0
pull1D
Entries 94
Mean −0.03313
Std Dev 1.007

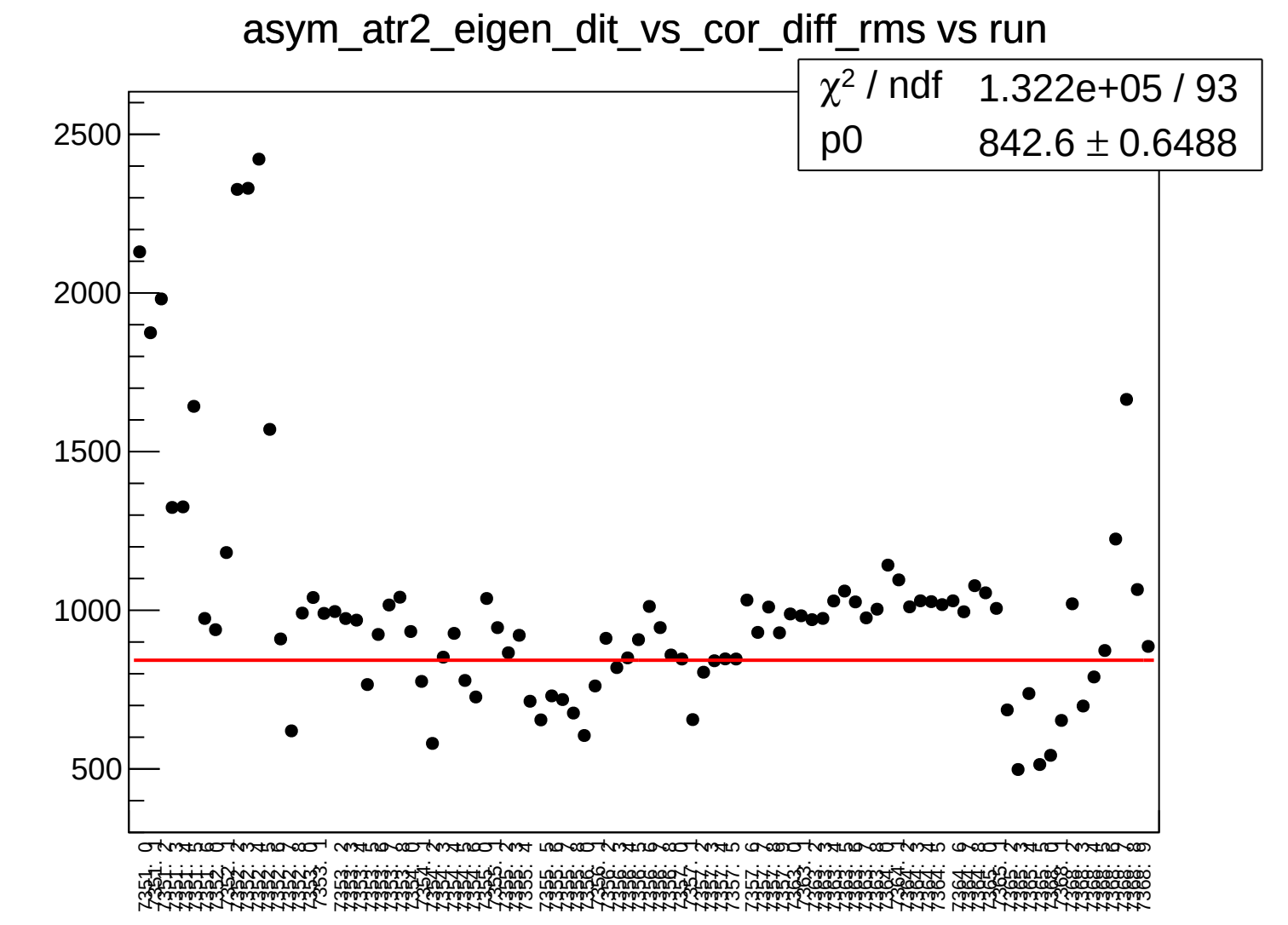

asym_atr2_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.322e+05 / 93
p0 842.6 ± 0.6488
2500
2000
1500
1000
500

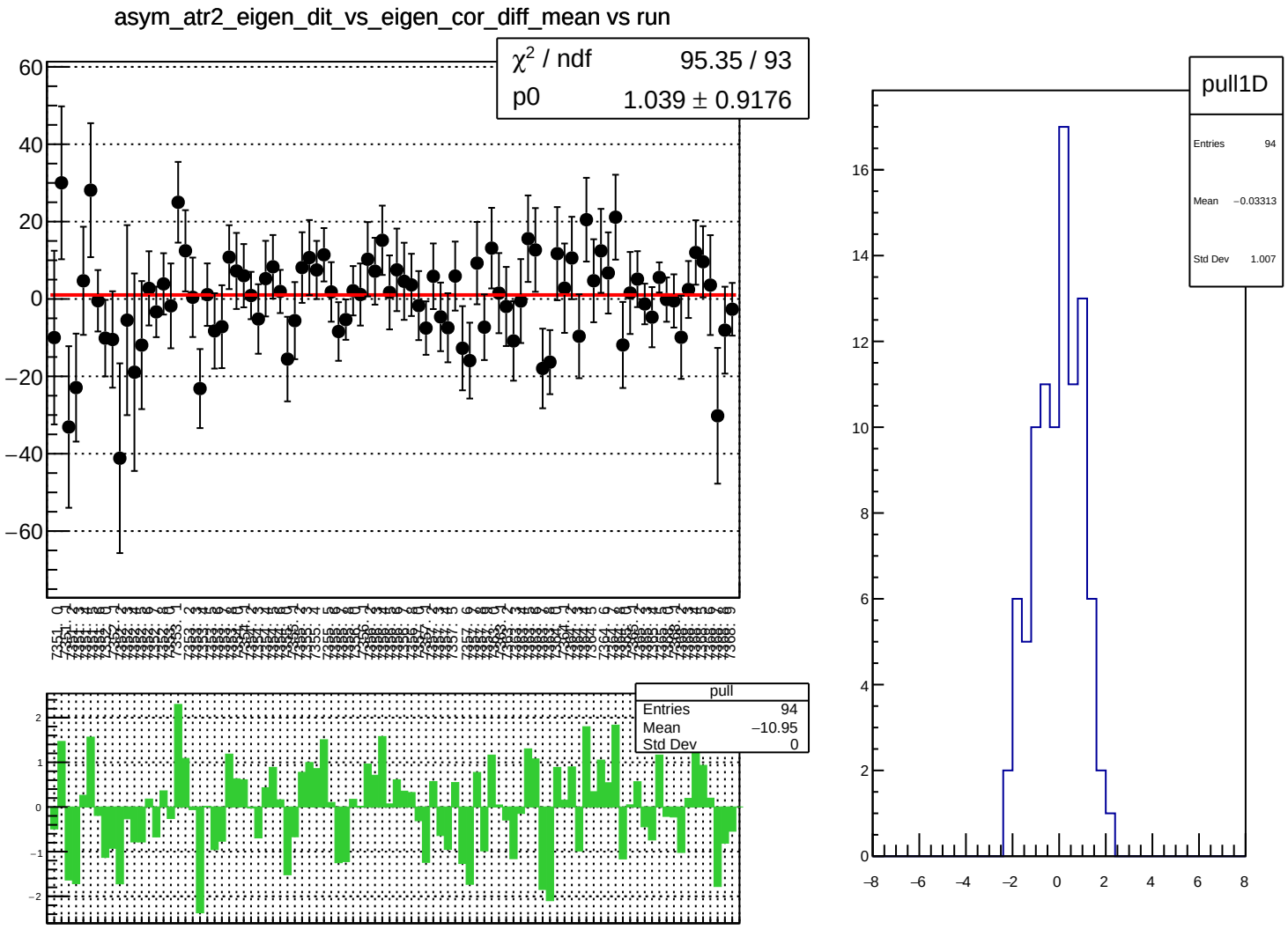

asym_atr2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 77.89 / 93
p0 8.85e−05 ± 3.592e−05
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 94
Mean 126.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

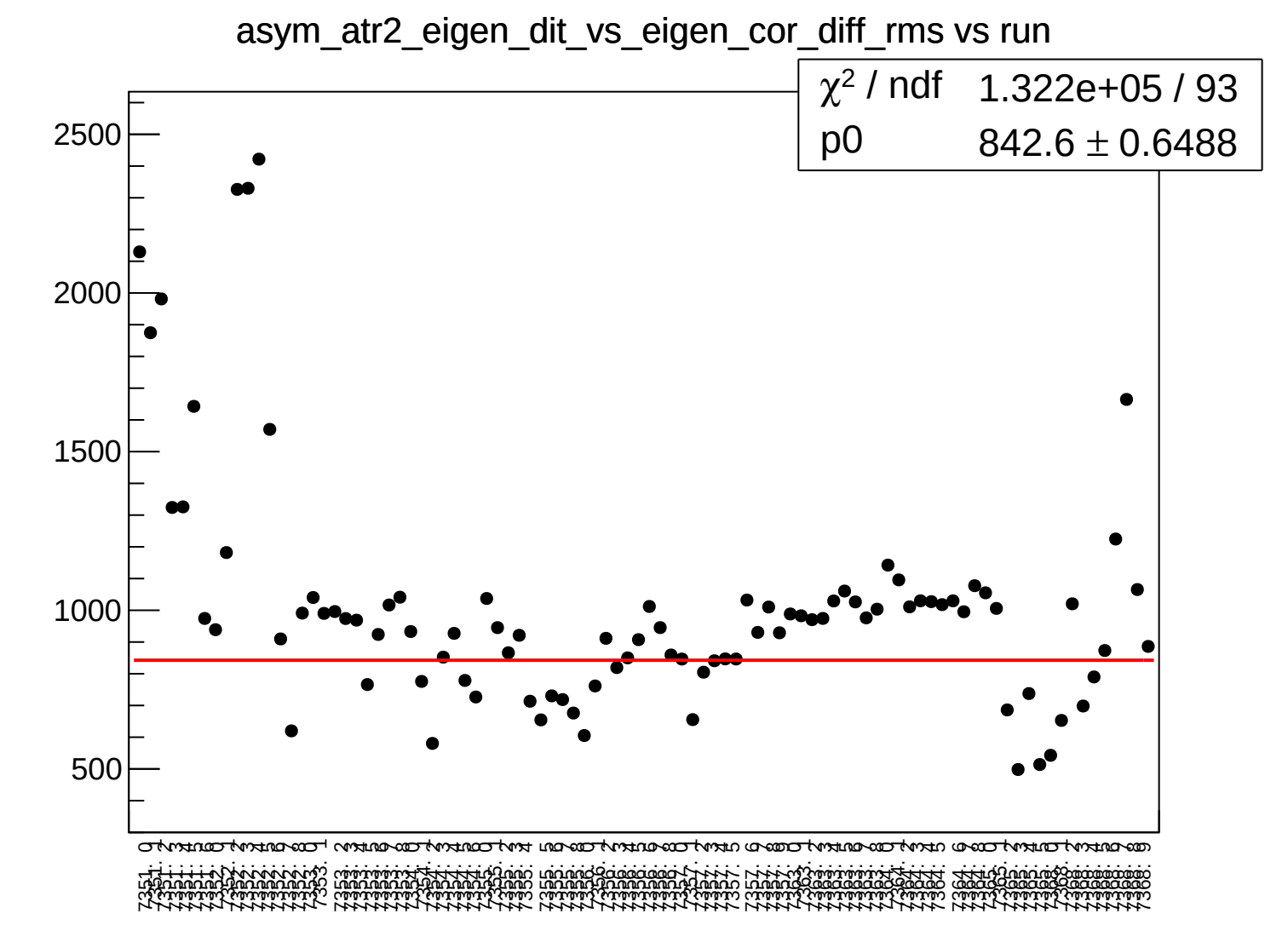

pull1D
Entries 94
Mean −0.02804
Std Dev 0.9098
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

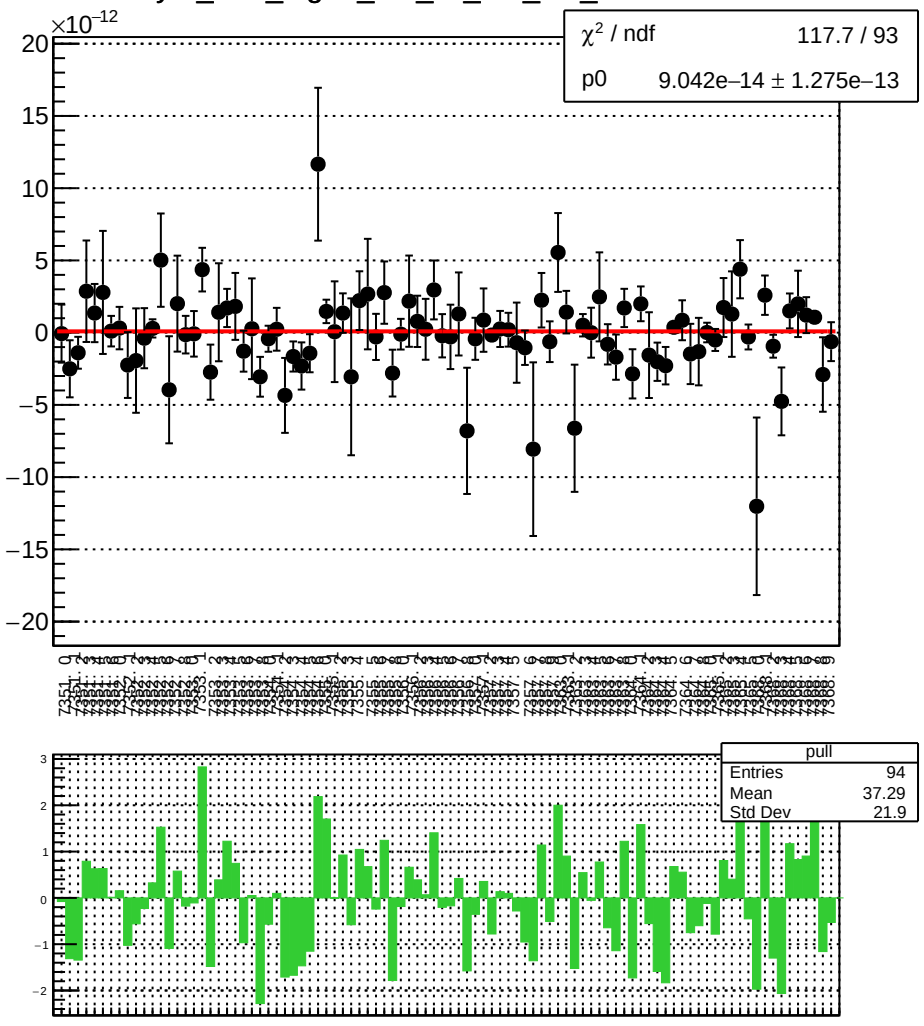

asym_atr2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.072e+05 / 93
p0 0.02909 ± 2.54e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

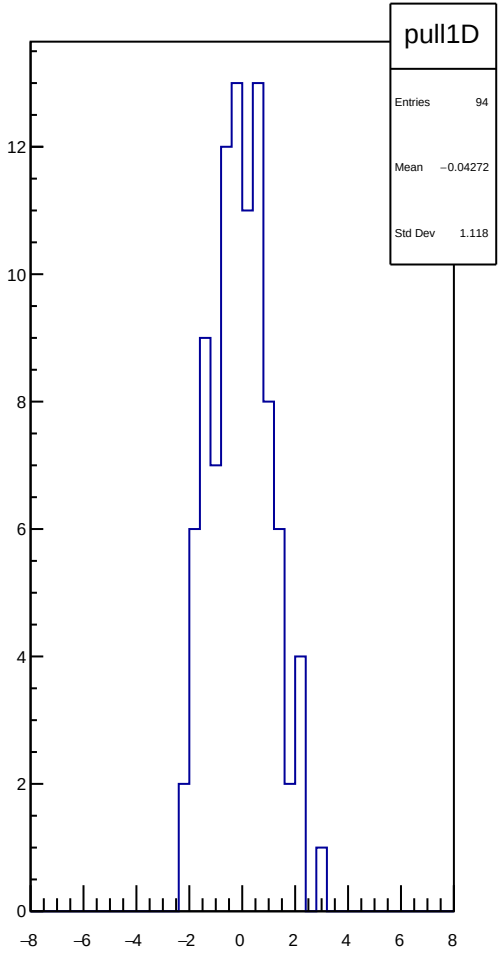

asym_atr2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.35 / 93
p0 1.039 ± 0.9176
pull
Entries 94
Mean −10.95
Std Dev 0
pull1D
Entries 94
Mean −0.03313
Std Dev 1.007

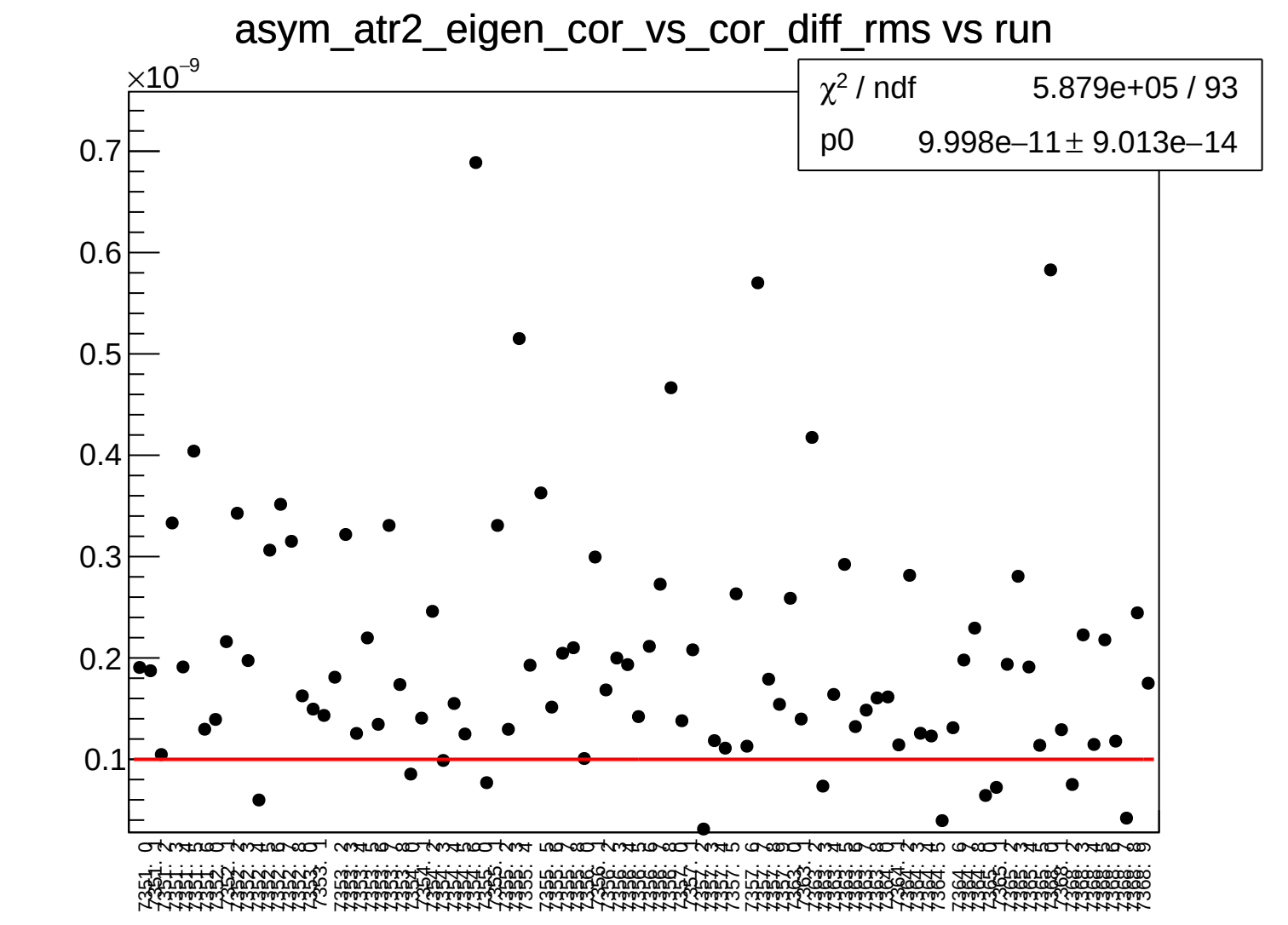

asym_atr2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.322e+05 / 93
p0 842.6 ± 0.6488
2500
2000
1500
1000
500

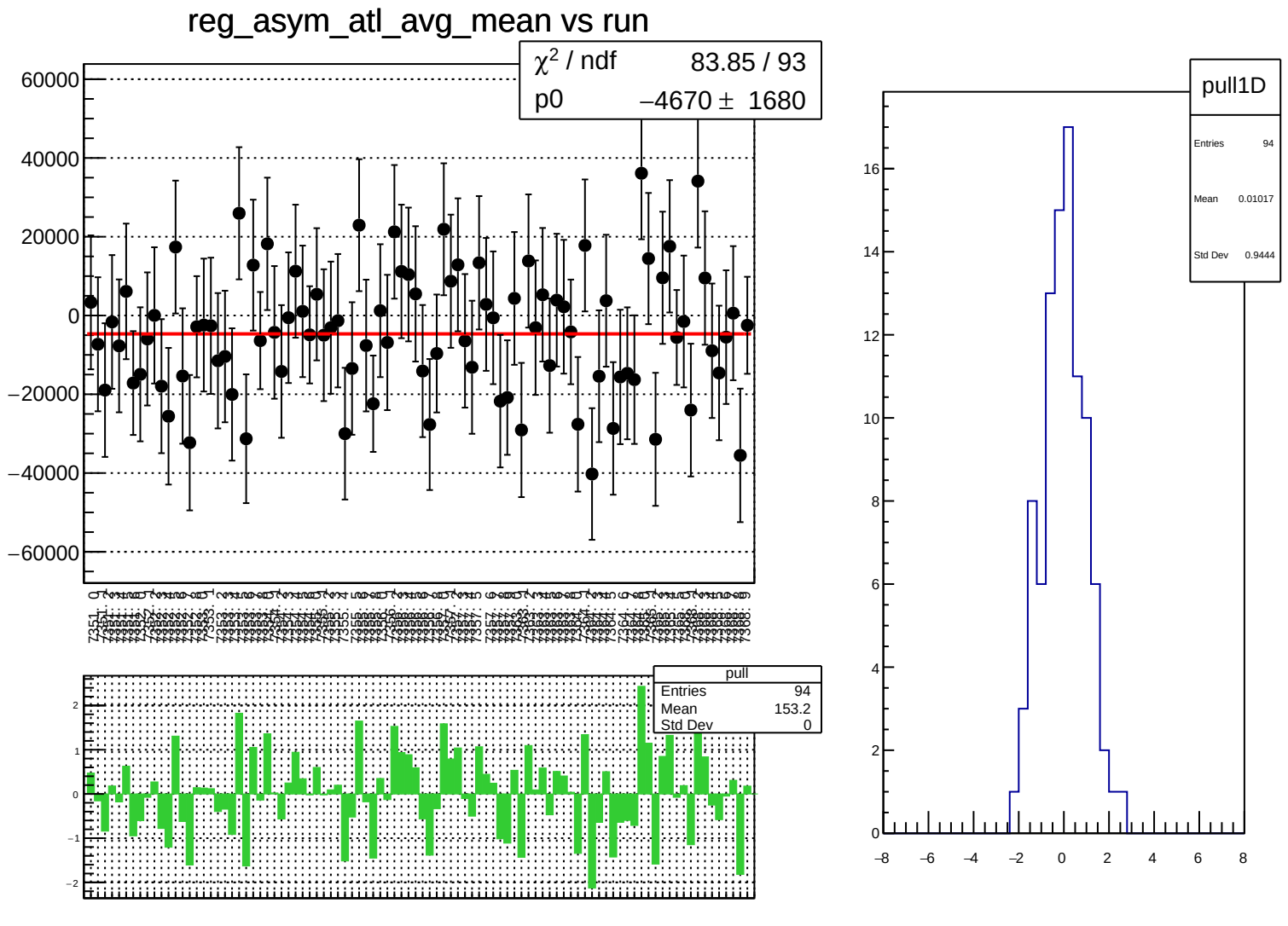

asym_atr2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.35 / 93
p0 1.039 ± 0.9176
pull
Entries 94
Mean −10.95
Std Dev 0
pull1D
Entries 94
Mean −0.03313
Std Dev 1.007

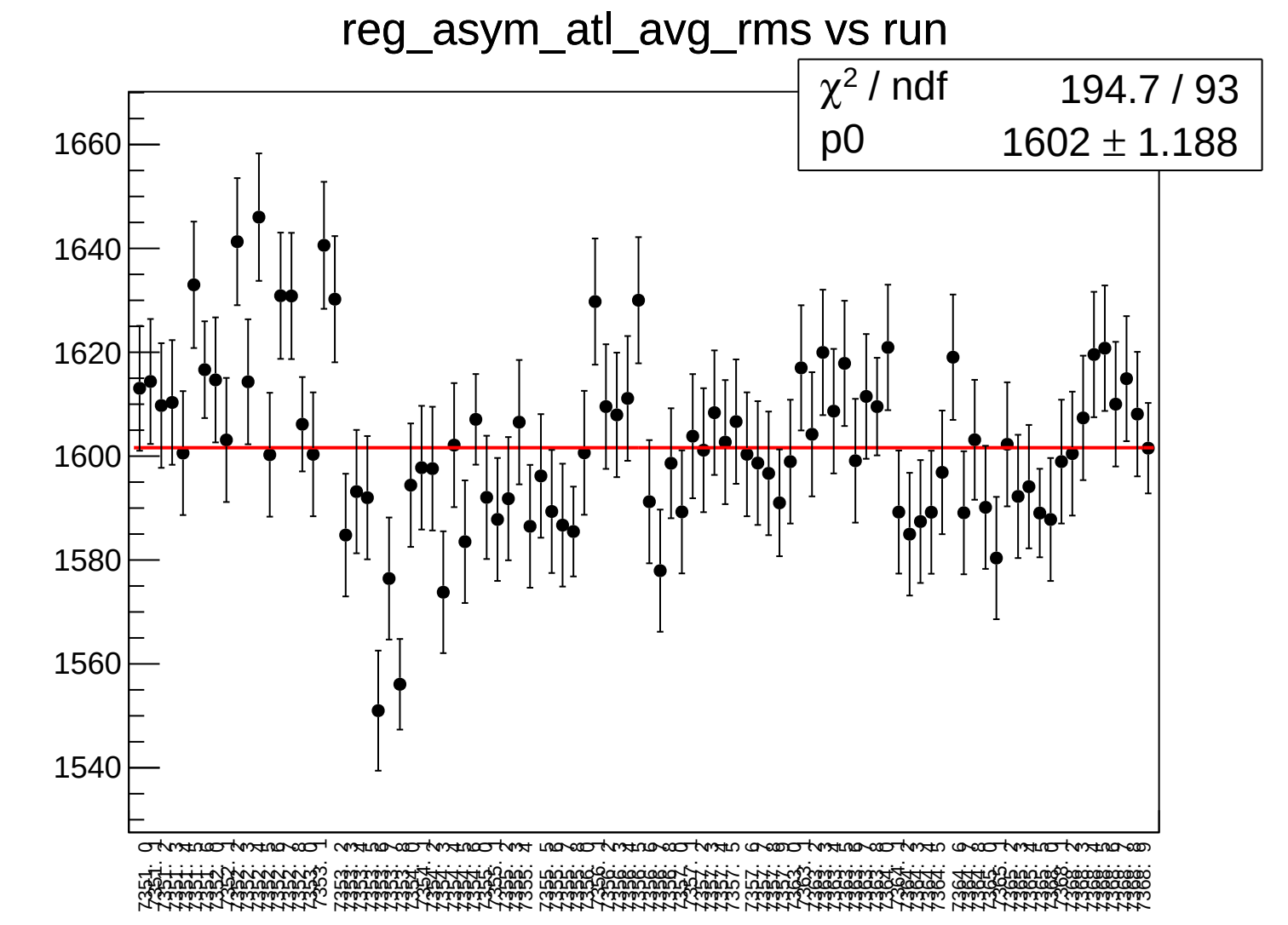

asym_atr2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.322e+05 / 93
p0 842.6 ± 0.6488
2500
2000
1500
1000
500

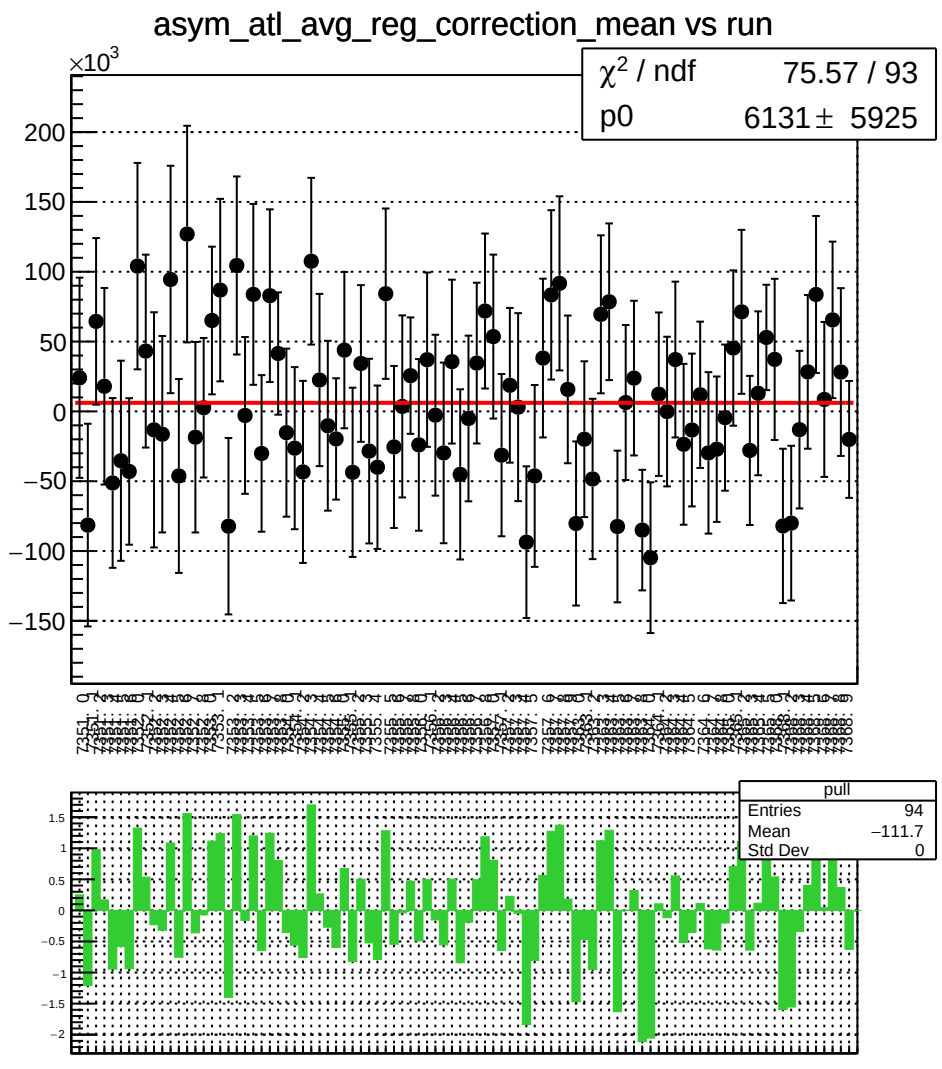

asym_atr2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 117.7 / 93
p0 9.042e−14 ± 1.275e−13
pull
Entries 94
Mean 37.29
Std Dev 21.9

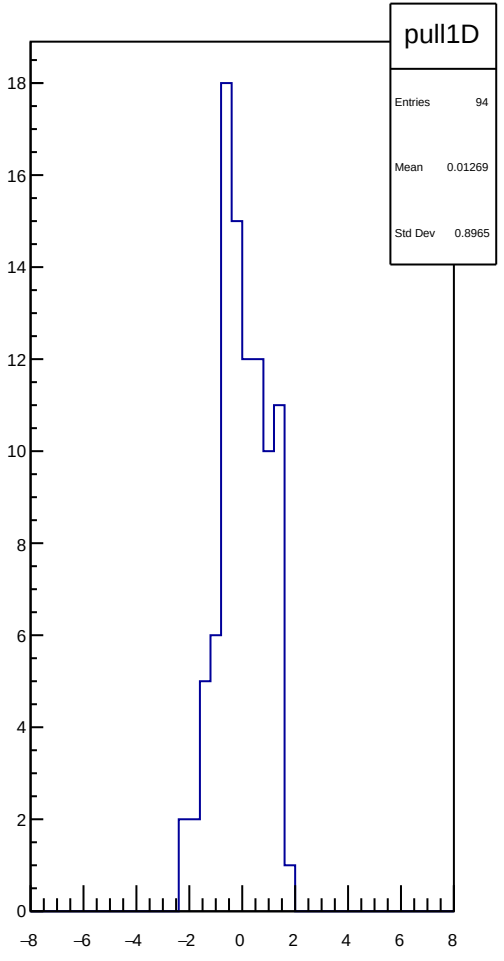

pull1D
Entries 94
Mean −0.04272
Std Dev 1.118

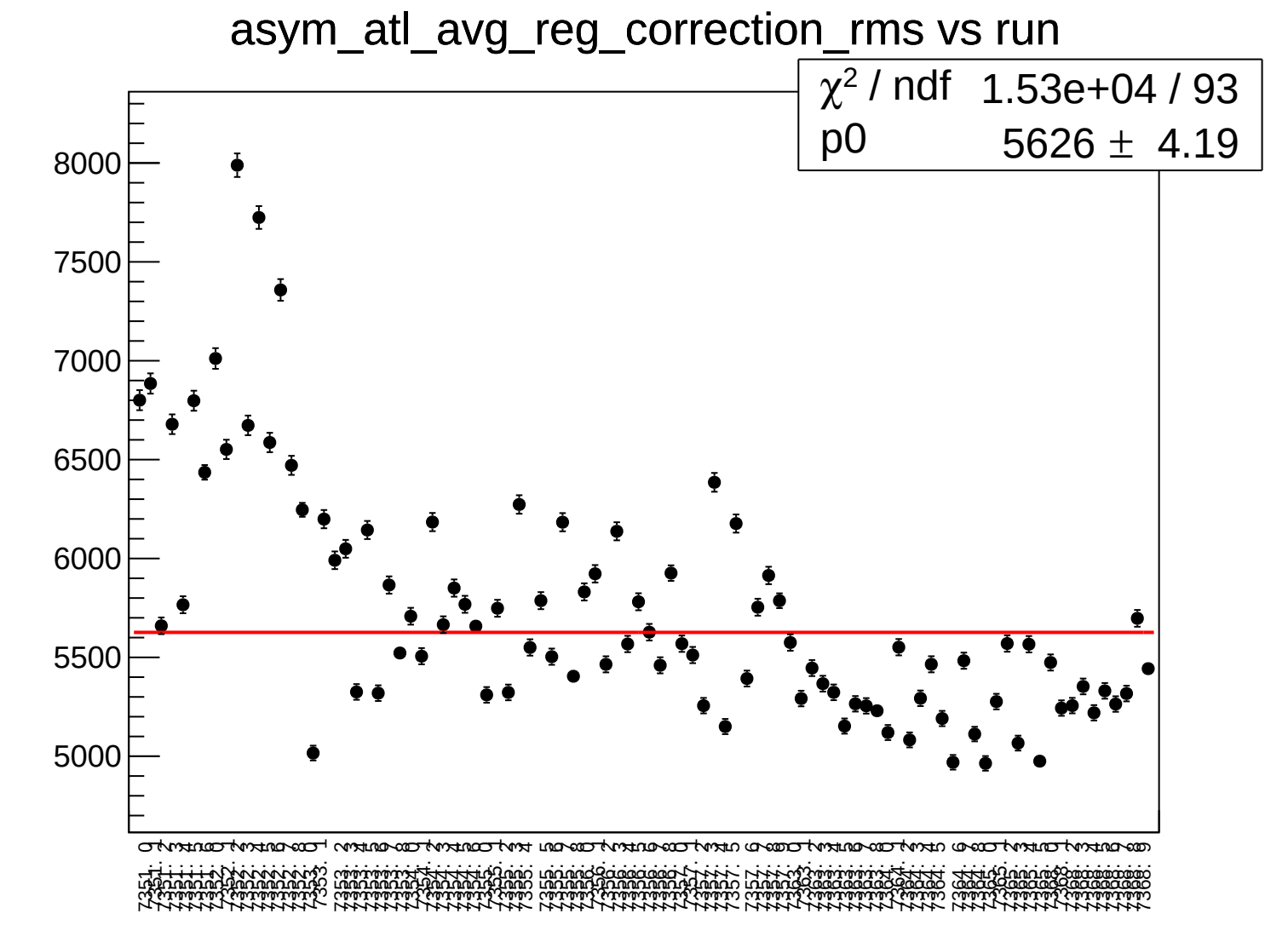

asym_atr2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.879e+05 / 93
p0 9.998e−11 ± 9.013e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

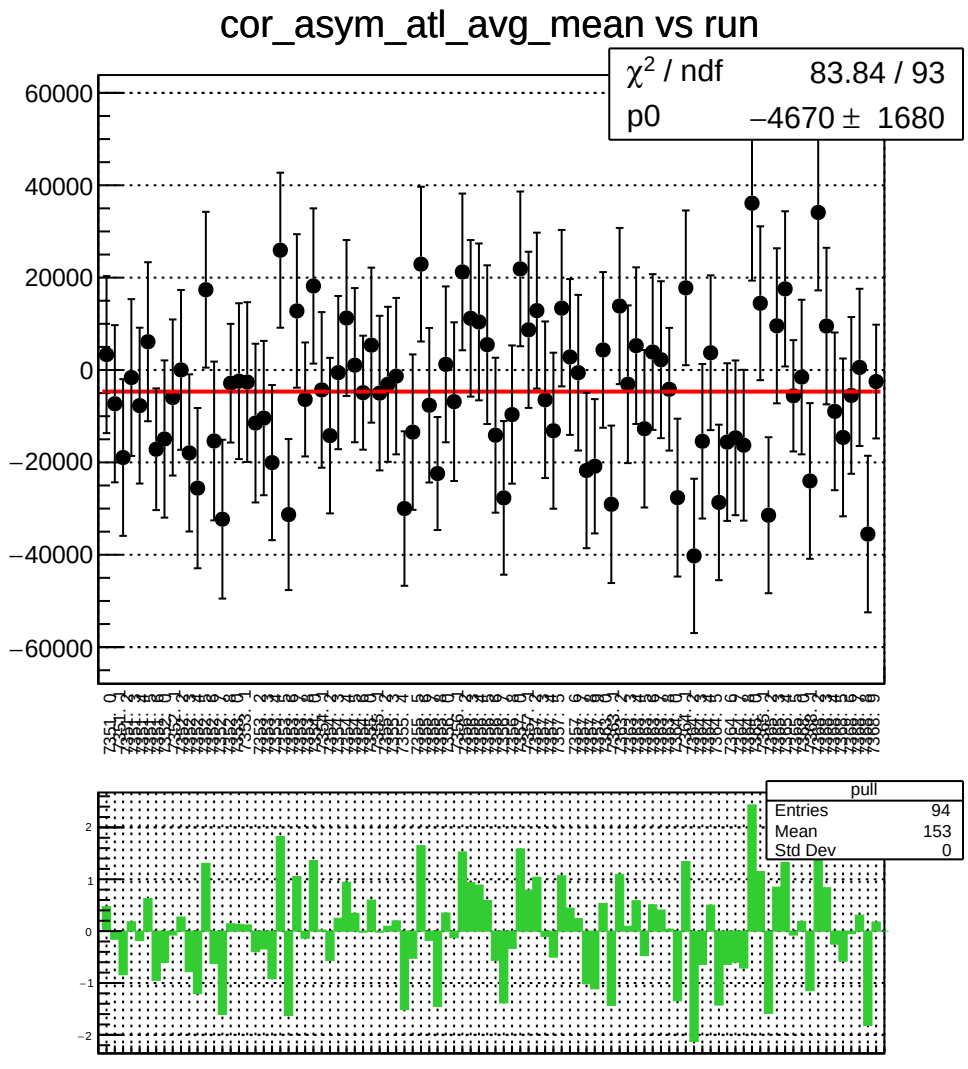

reg_asym_atl_avg_mean vs run
χ² / ndf 83.85 / 93
p0 −4670 ± 1680
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 153.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.01017
Std Dev 0.9444
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

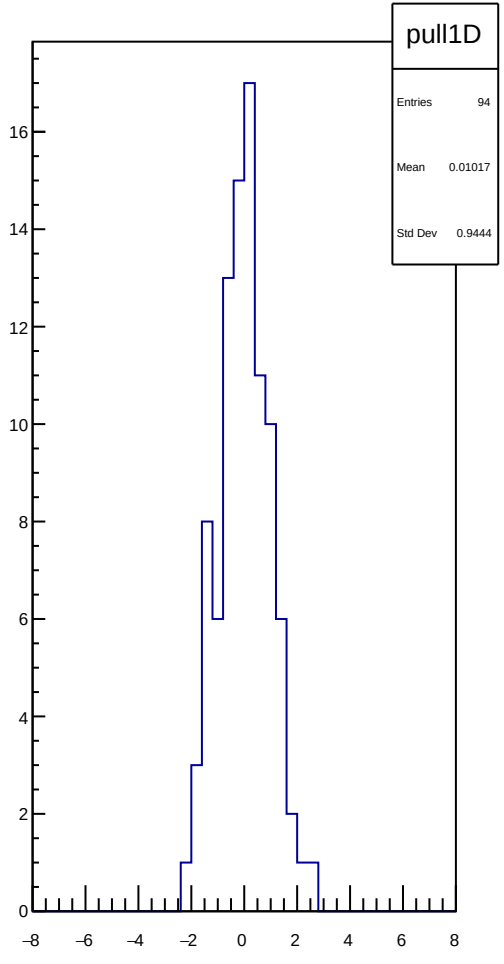

reg_asym_atl_avg_rms vs run
χ^2 / ndf 194.7 / 93
p0 1602 ± 1.188
1660
1640
1620
1600
1580
1560
1540

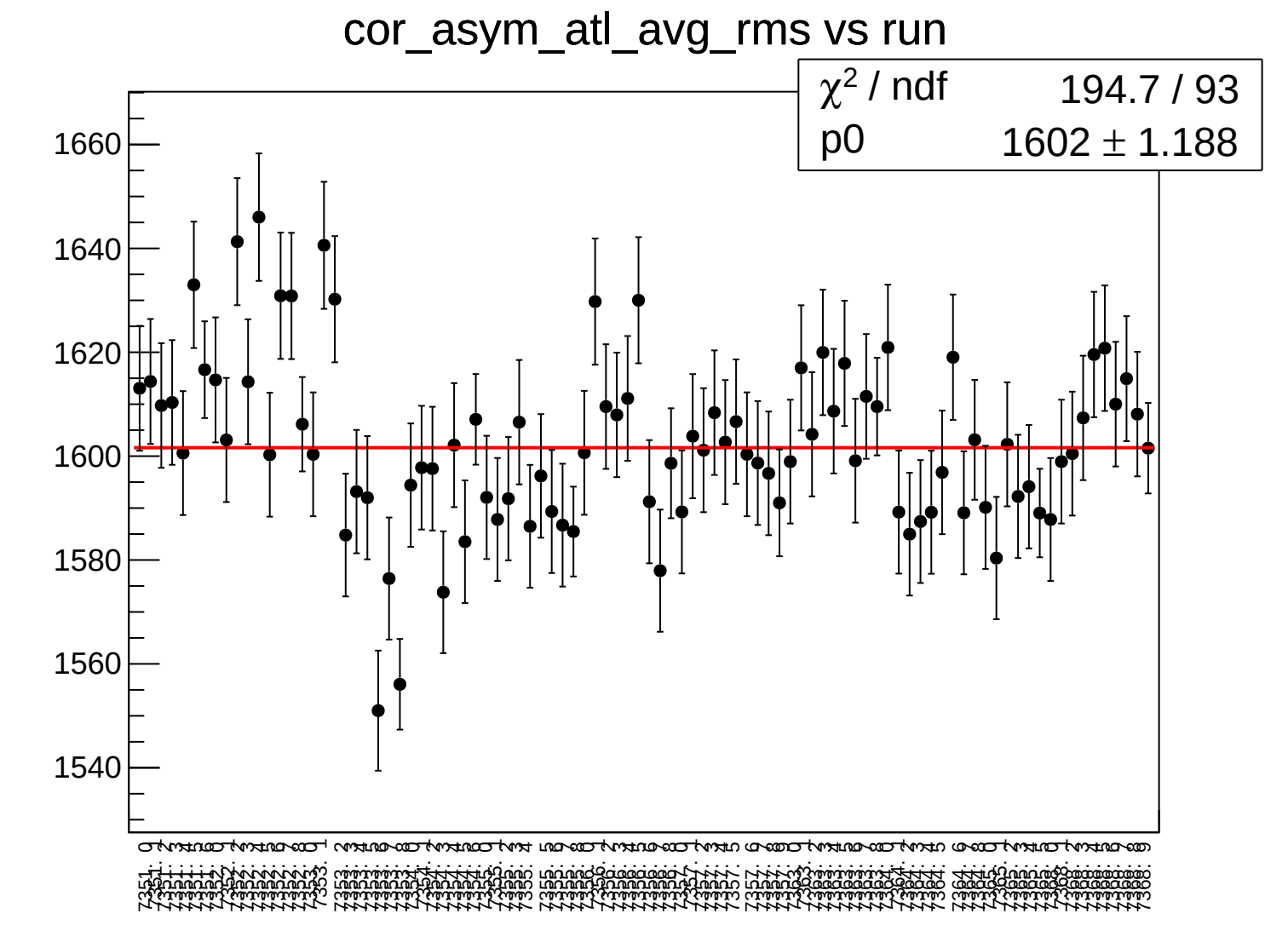

asym_atl_avg_reg_correction_mean vs run
χ^2 / ndf 75.57 / 93
p0 6131 ± 5925
×10^3
pull
Entries 94
Mean −111.7
Std Dev 0

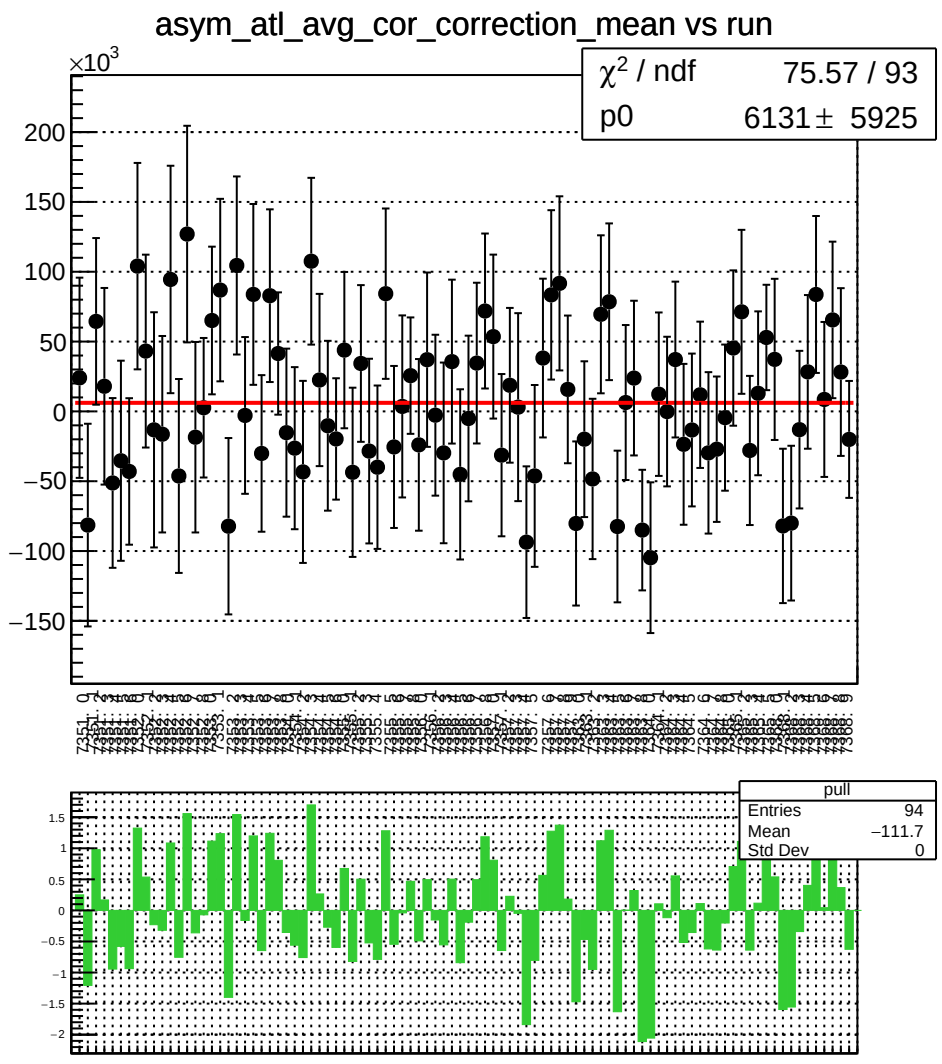

pull1D
Entries 94
Mean 0.01269
Std Dev 0.8965

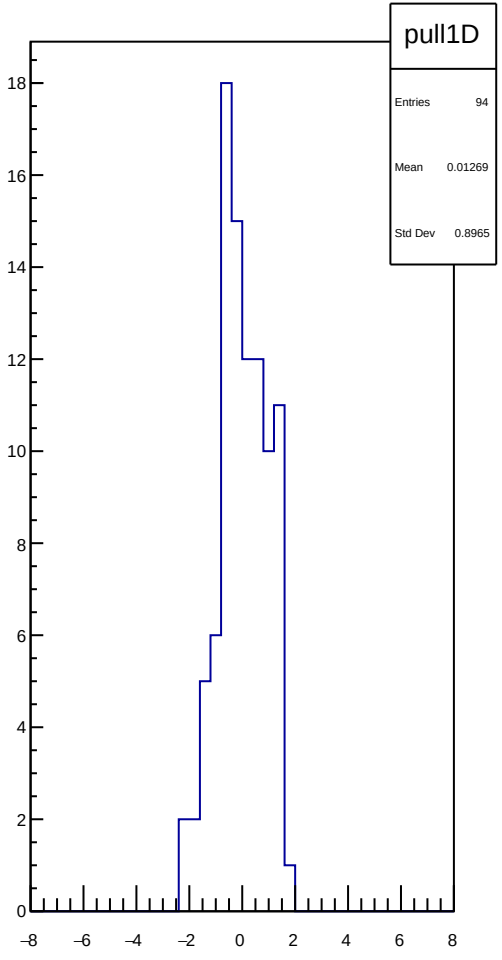

asym_atl_avg_reg_correction_rms vs run
χ² / ndf 1.53e+04 / 93
p0 5626 ± 4.19
8000
7500
7000
6500
6000
5500
5000

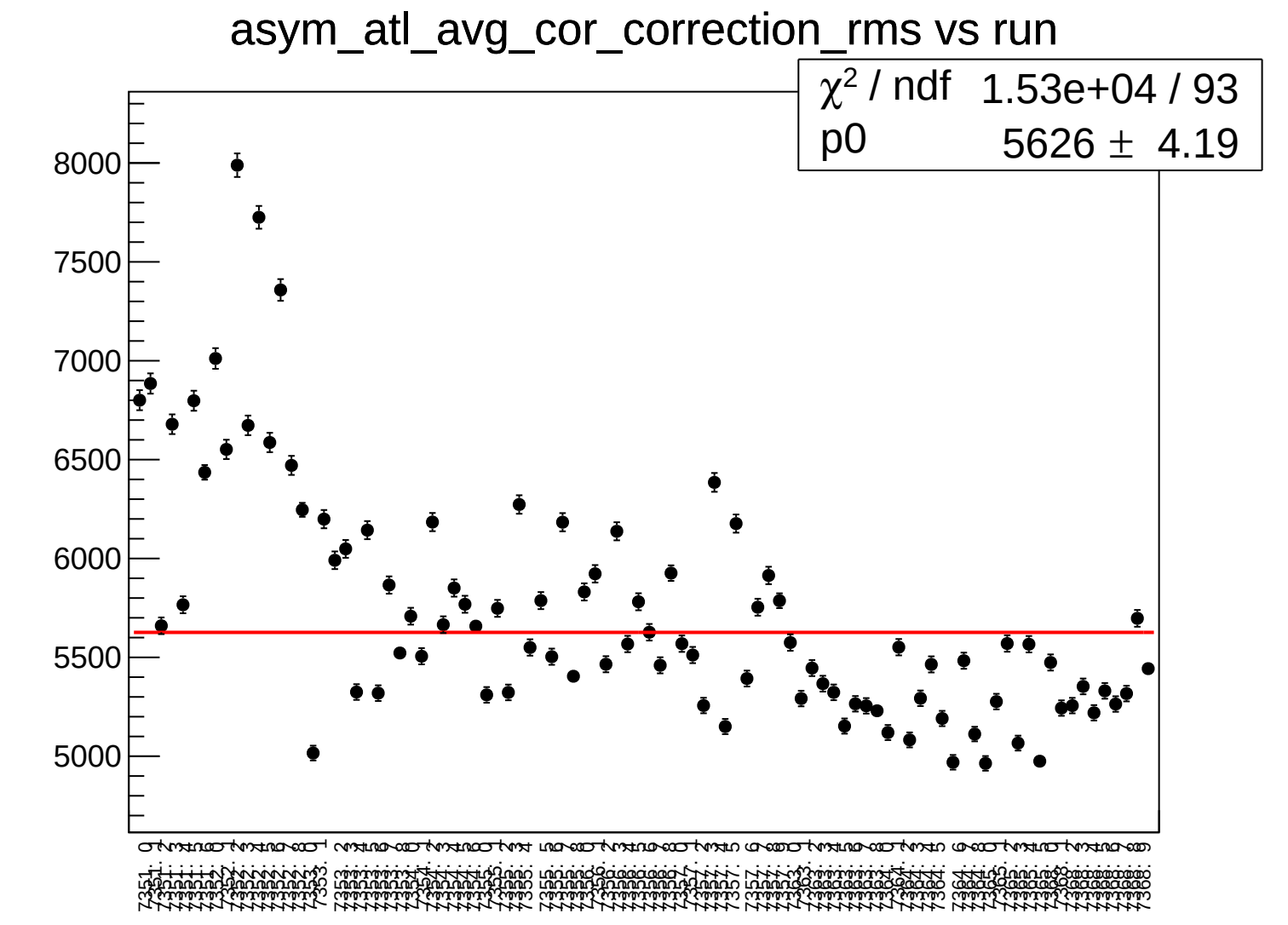

cor_asym_atl_avg_mean vs run
χ² / ndf 83.84 / 93
p0 −4670 ± 1680
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 153
Std Dev 0
2
1
0
−1
−2

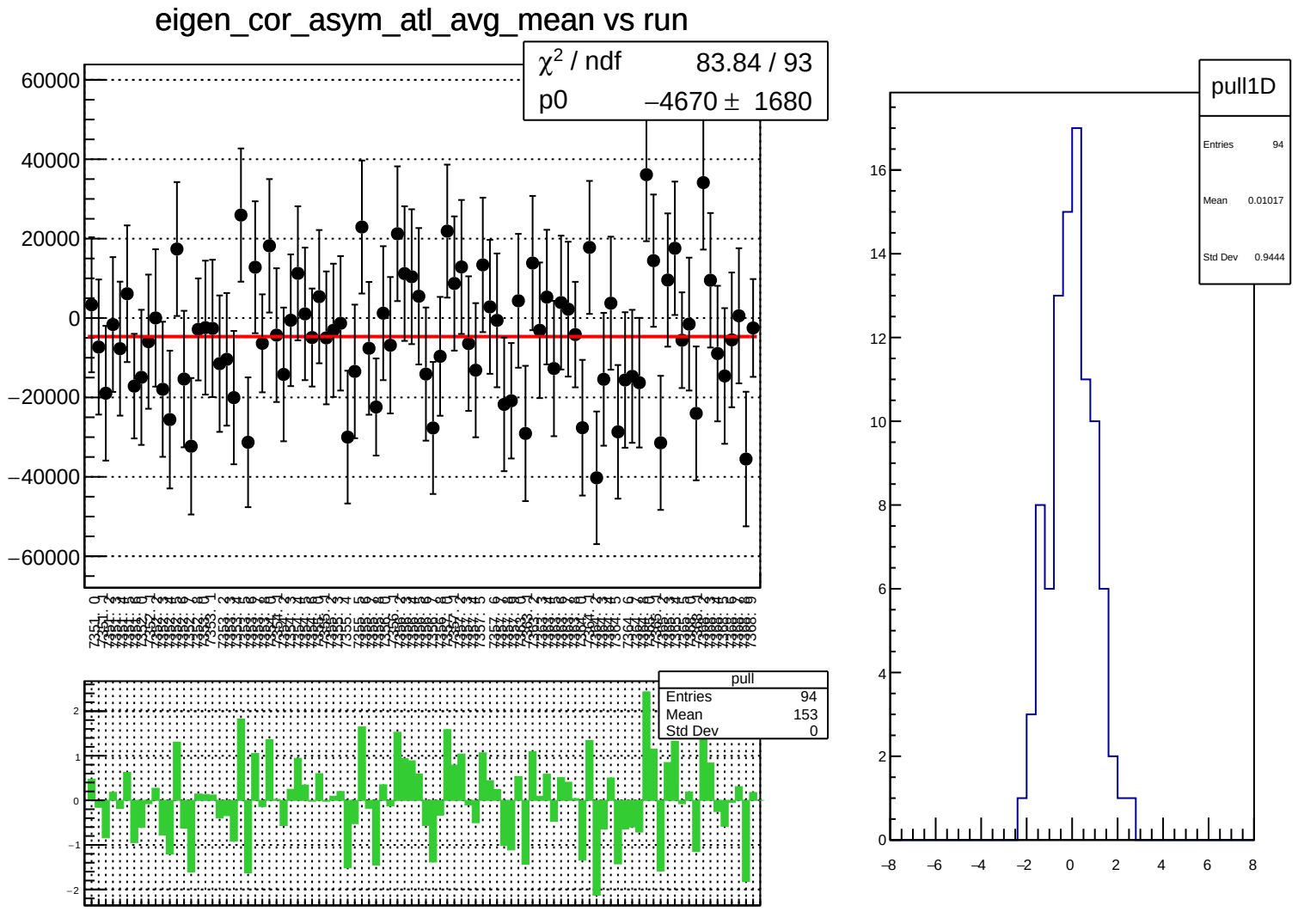

pull1D
Entries 94
Mean 0.01017
Std Dev 0.9444
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

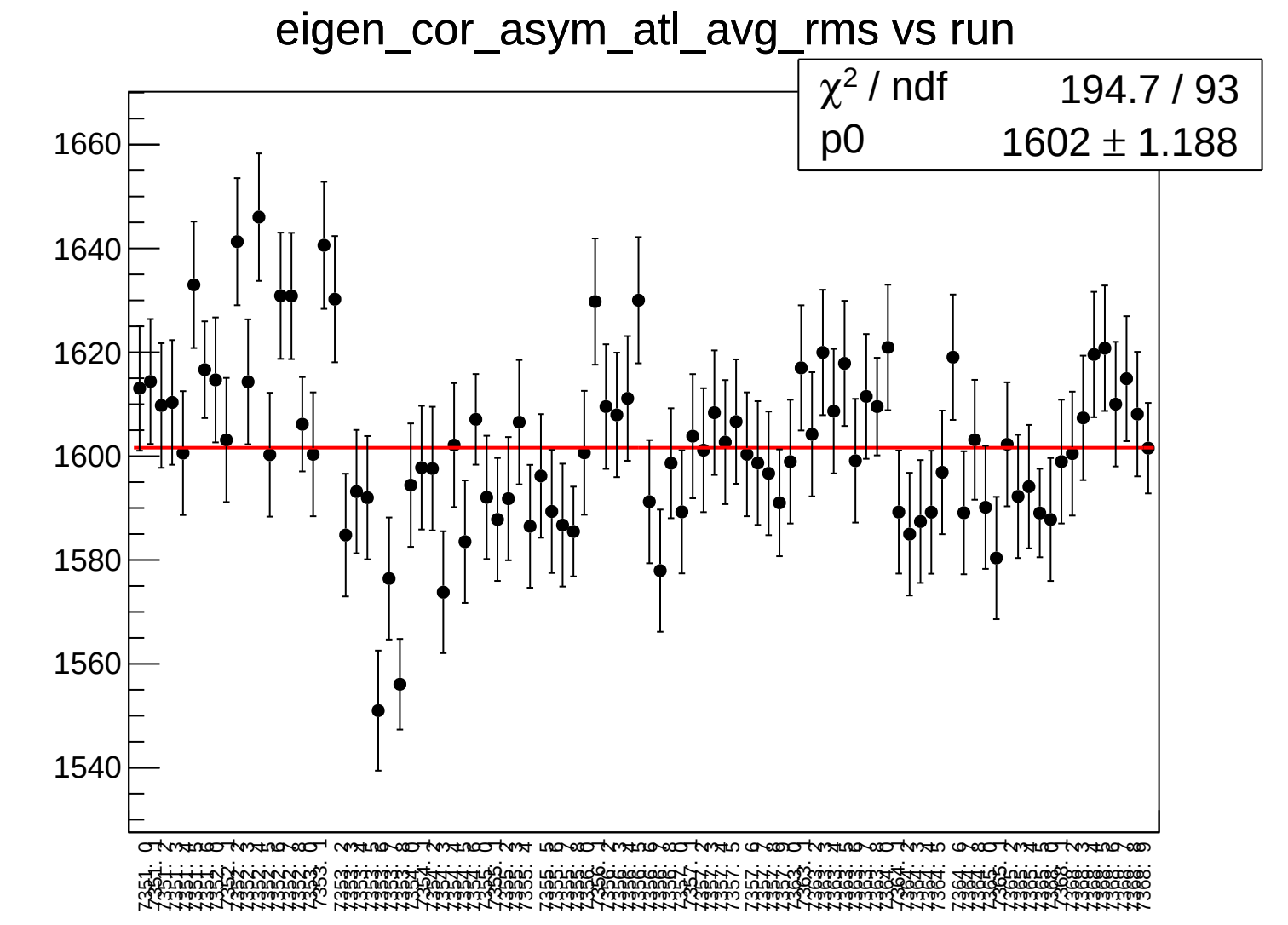

cor_asym_atl_avg_rms vs run
χ² / ndf 194.7 / 93
p0 1602 ± 1.188
1660
1640
1620
1600
1580
1560
1540

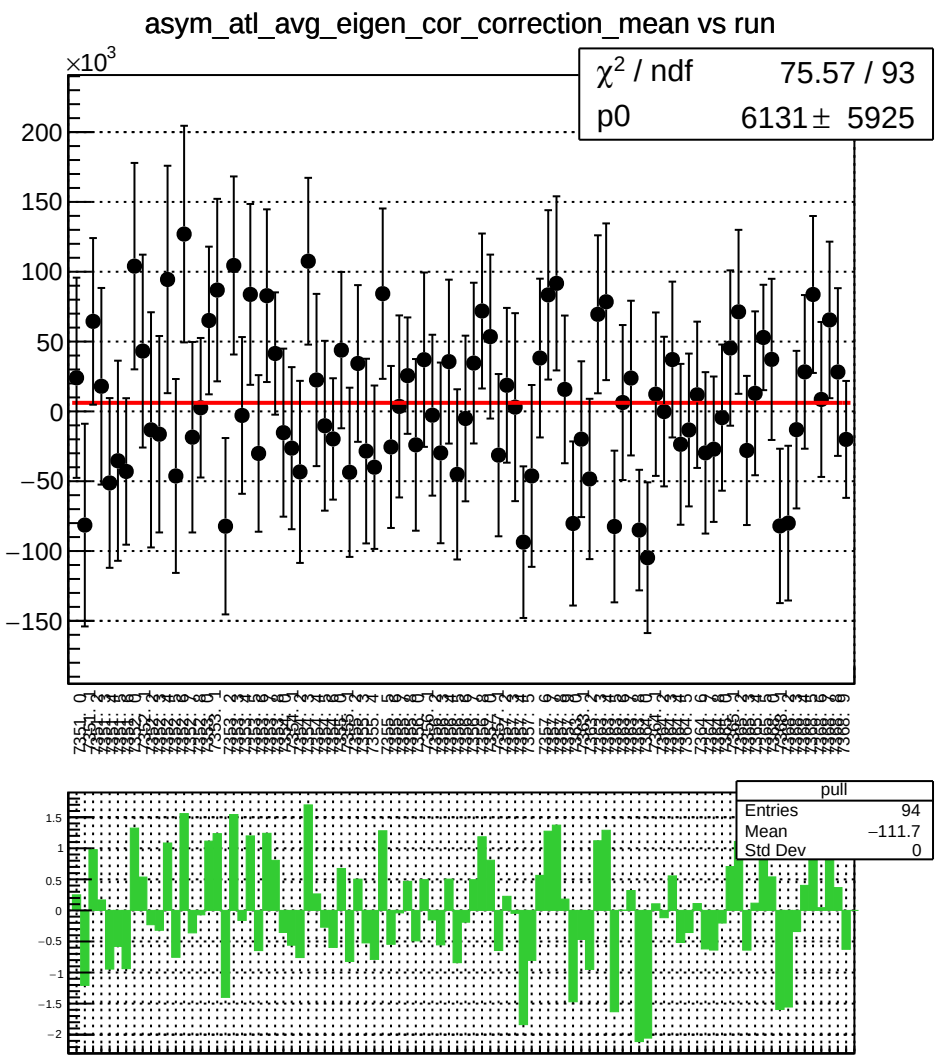

asym_atl_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 75.57 / 93
p0 6131 ± 5925
200
150
100
50
0
−50
−100
−150
pull
Entries 94
Mean −111.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

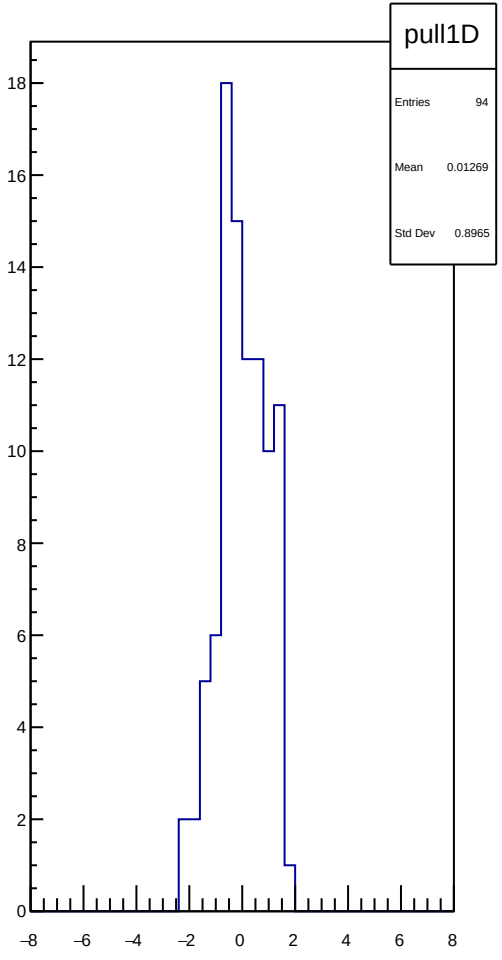

pull1D
Entries 94
Mean 0.01269
Std Dev 0.8965
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

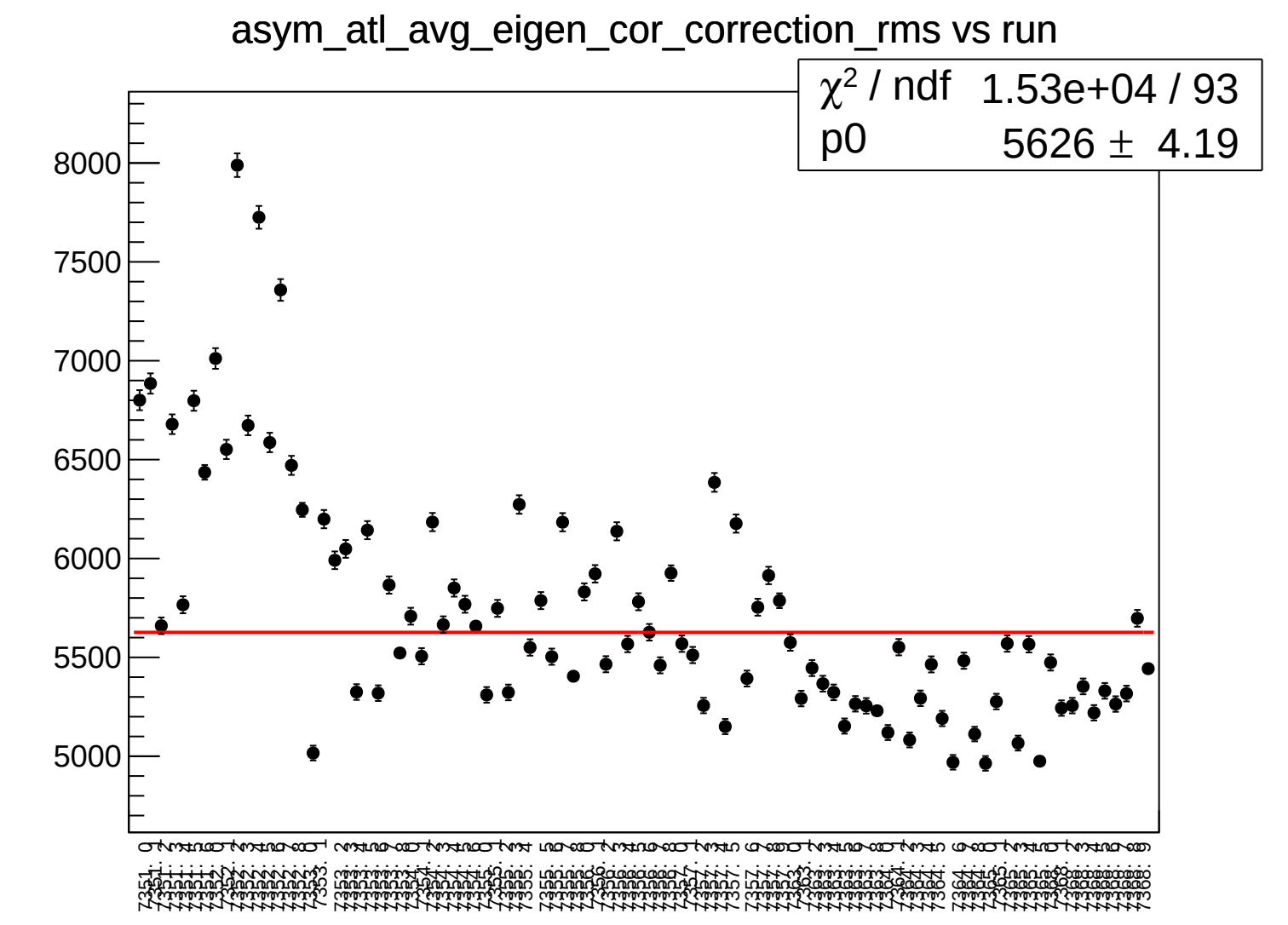

asym_atl_avg_cor_correction_rms vs run
χ² / ndf 1.53e+04 / 93
p0 5626 ± 4.19
8000
7500
7000
6500
6000
5500
5000

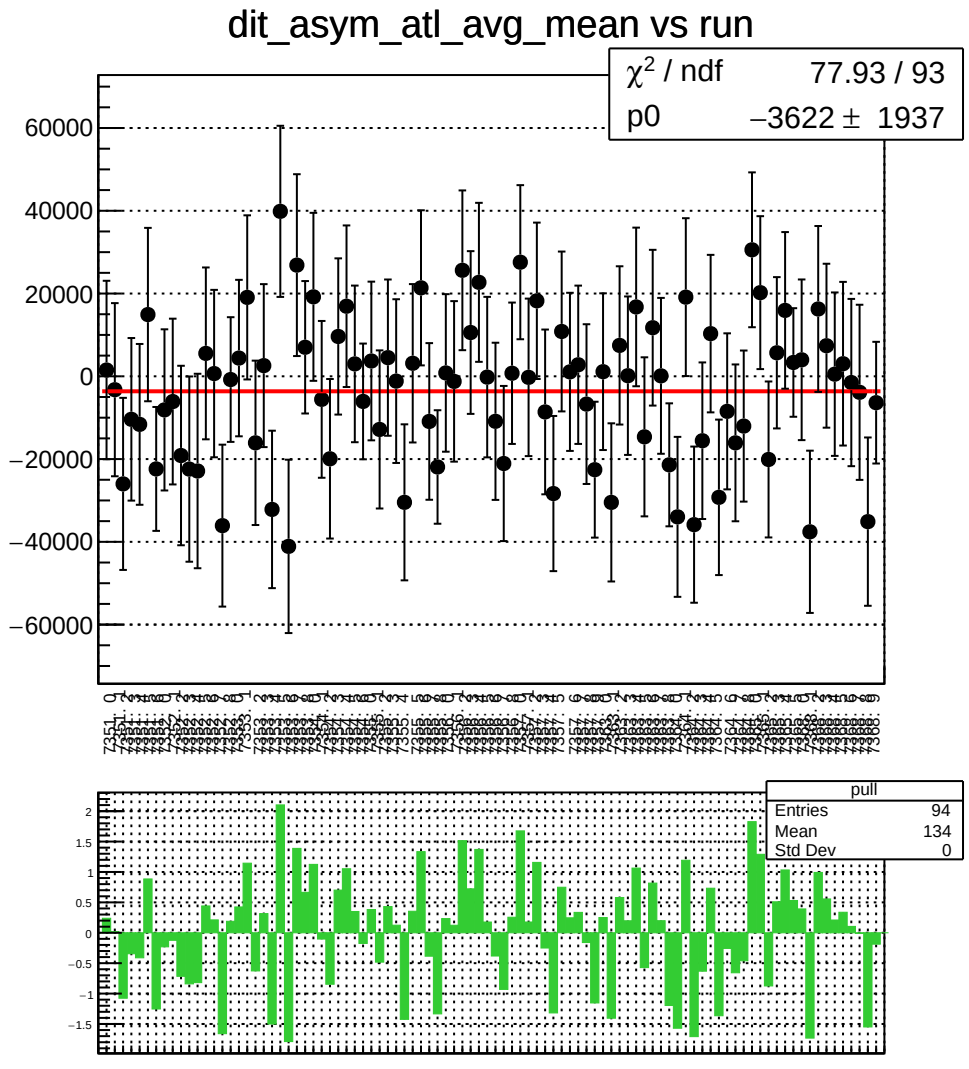

eigen_cor_asym_atl_avg_mean vs run
χ² / ndf 83.84 / 93
p0 −4670 ± 1680
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 153
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.01017
Std Dev 0.9444
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

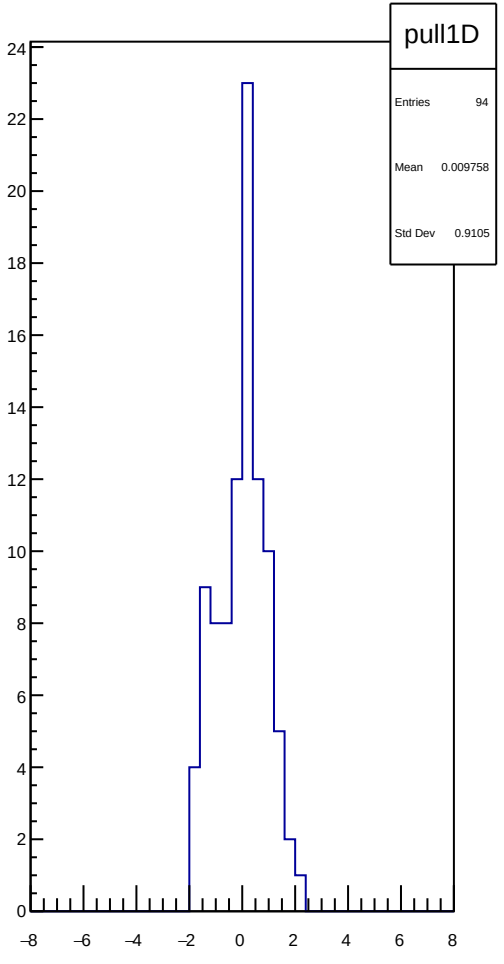

eigen_cor_asym_atl_avg_rms vs run
χ² / ndf 194.7 / 93
p0 1602 ± 1.188
1660
1640
1620
1600
1580
1560
1540

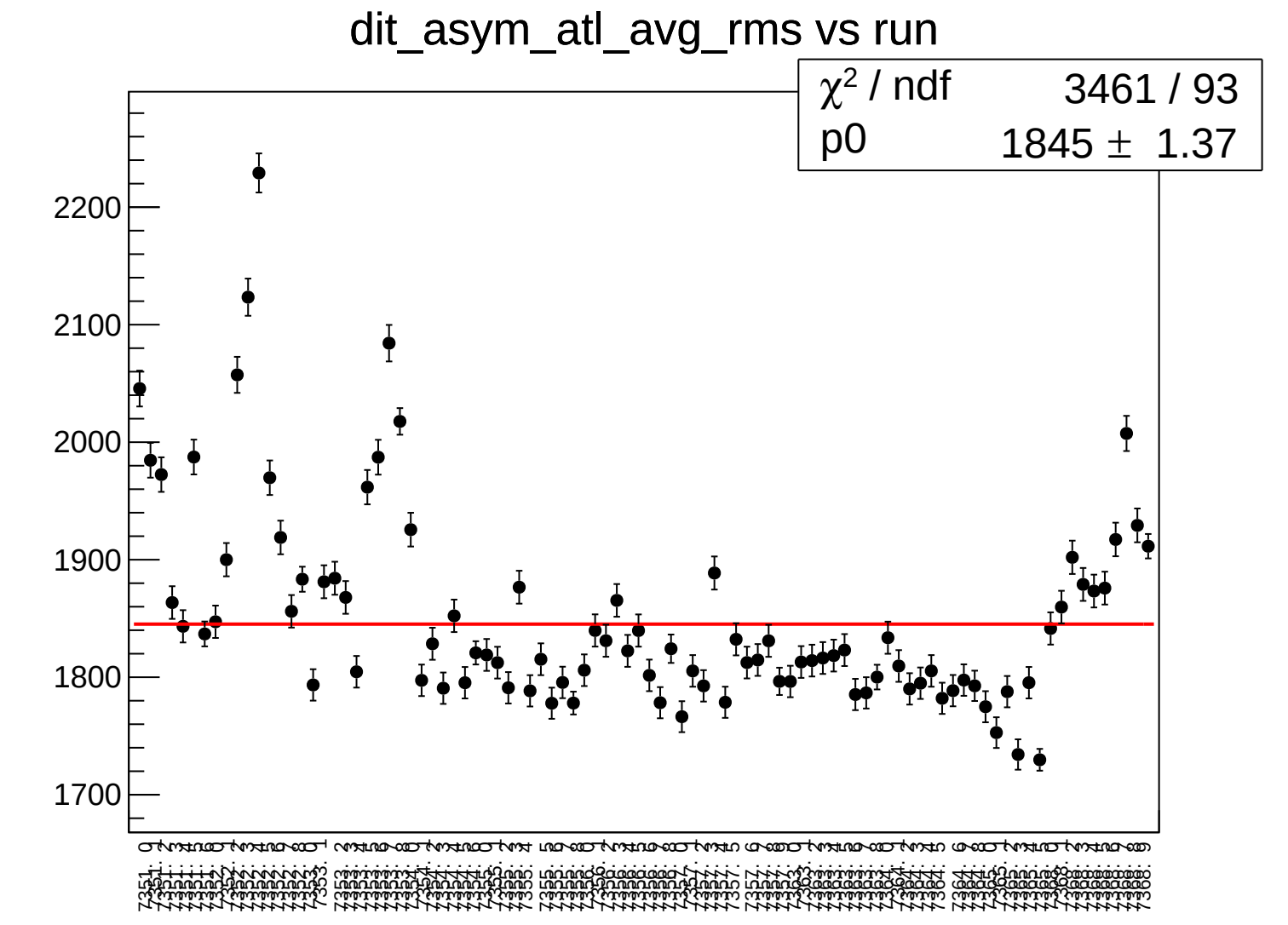

asym_atl_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 75.57 / 93
p0 6131 ± 5925
200
150
100
50
0
−50
−100
−150
pull
Entries 94
Mean −111.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

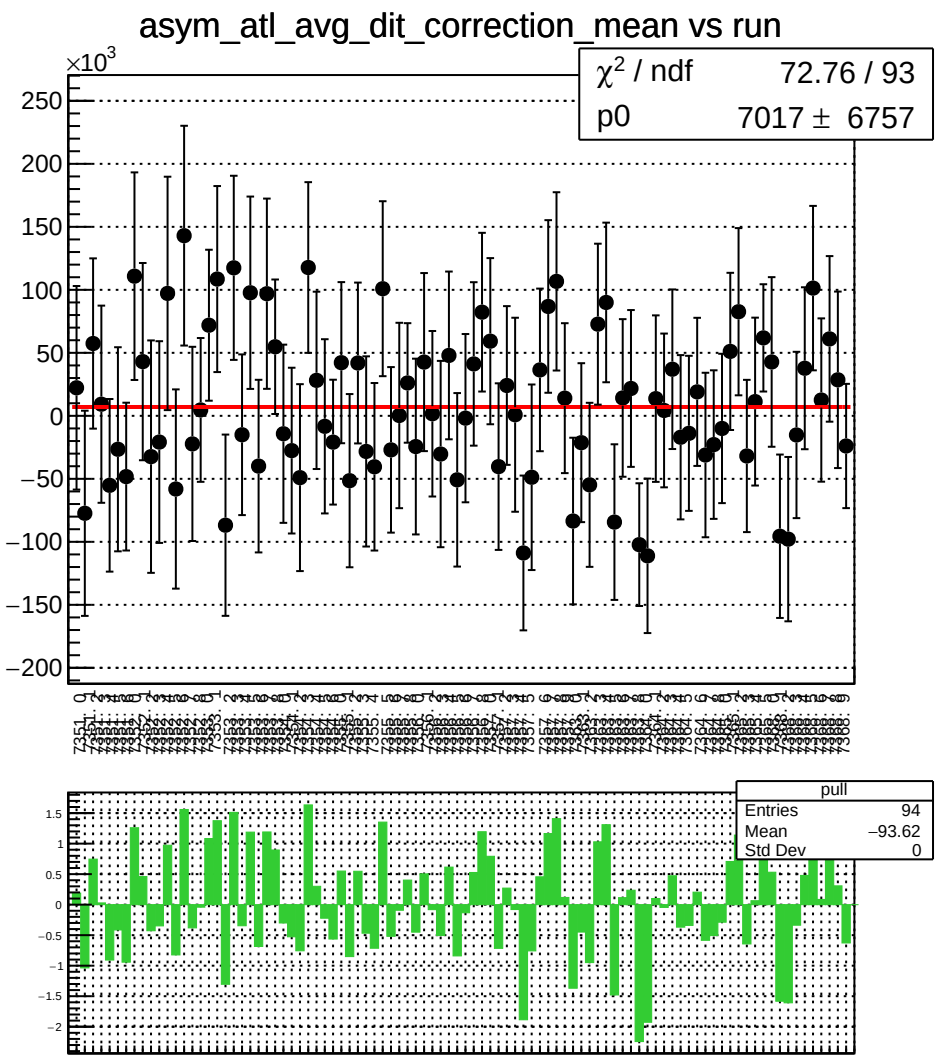

pull1D
Entries 94
Mean 0.01269
Std Dev 0.8965
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

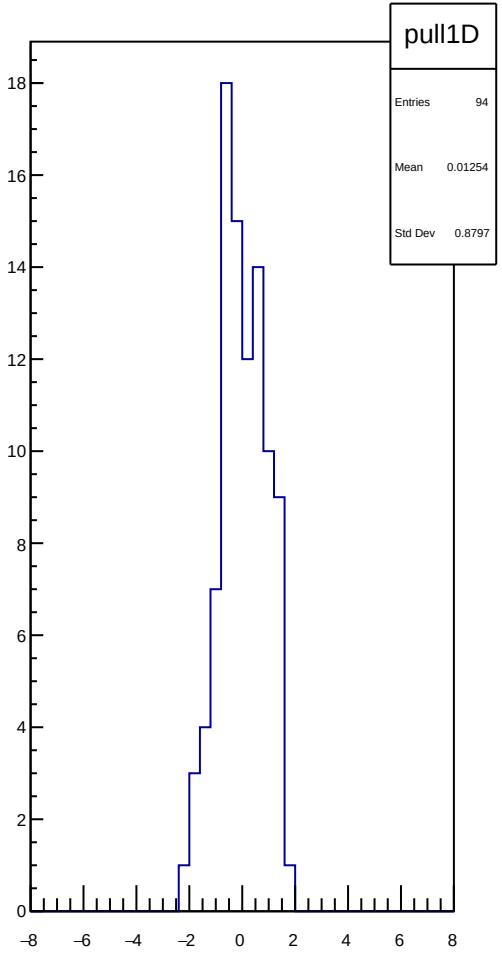

asym_atl_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.53e+04 / 93
p0 5626 ± 4.19
8000
7500
7000
6500
6000
5500
5000

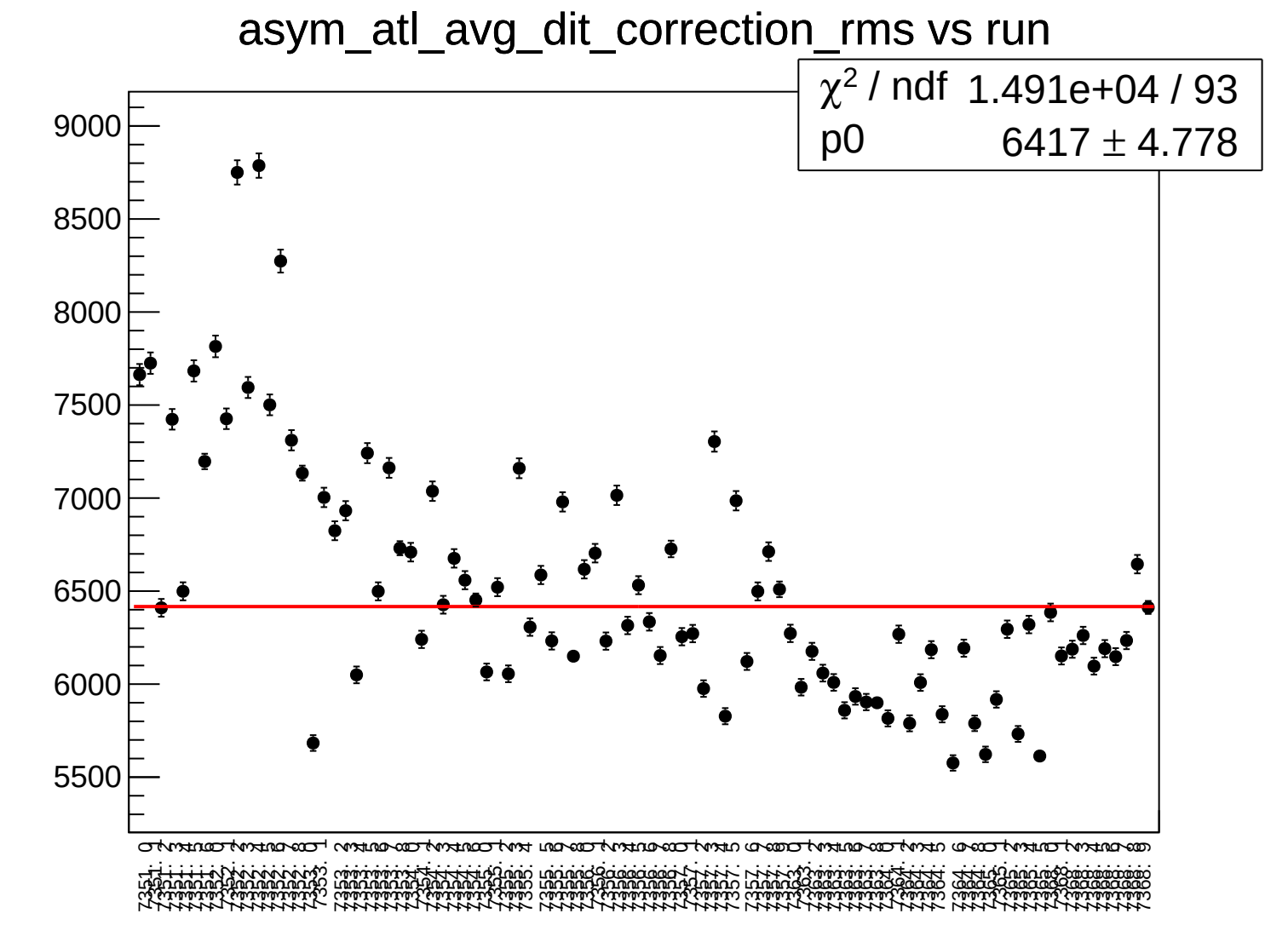

dit_asym_atl_avg_mean vs run
χ² / ndf 77.93 / 93
p0 −3622 ± 1937
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 134
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

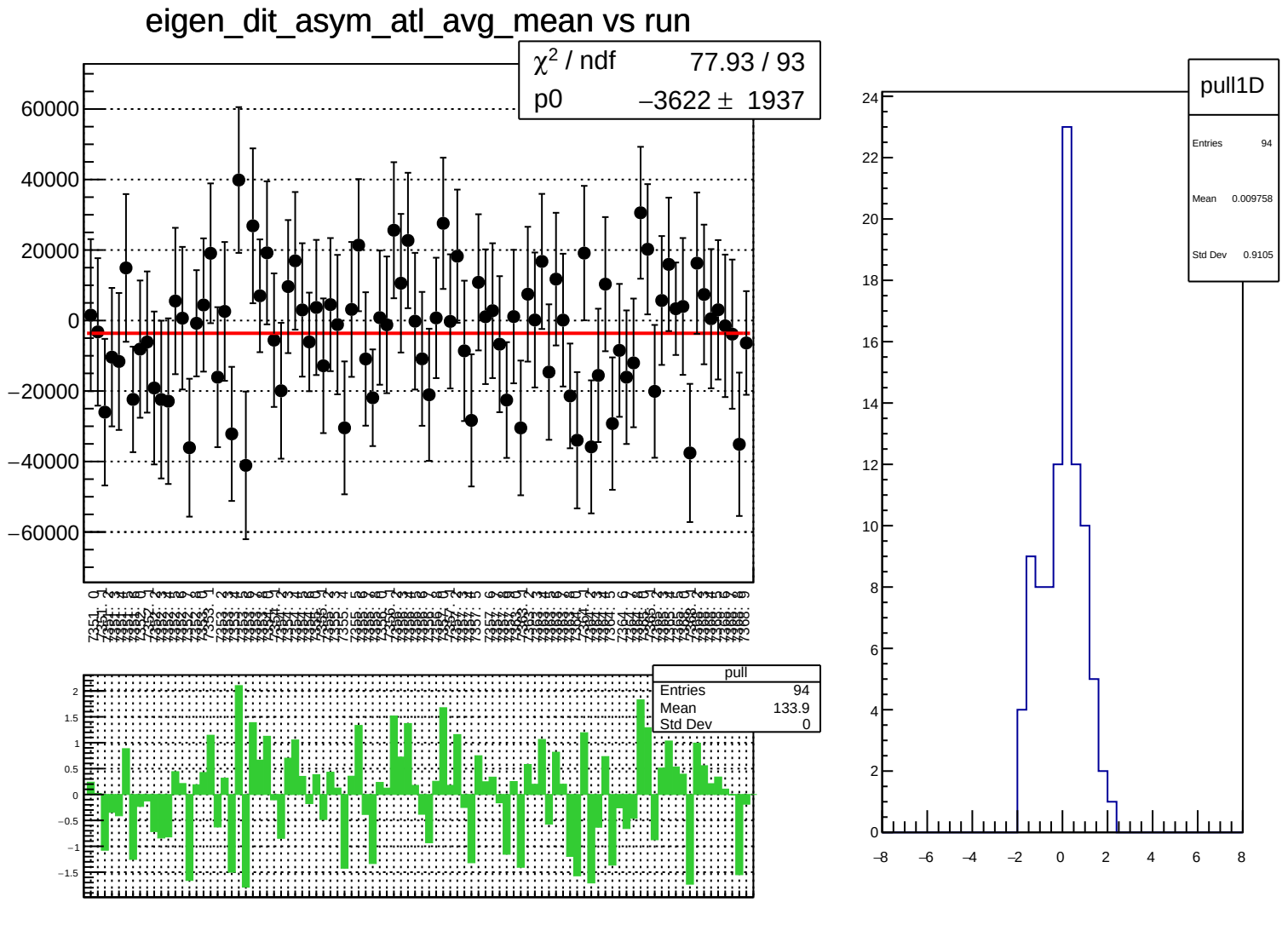

pull1D
Entries 94
Mean 0.009758
Std Dev 0.9105
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

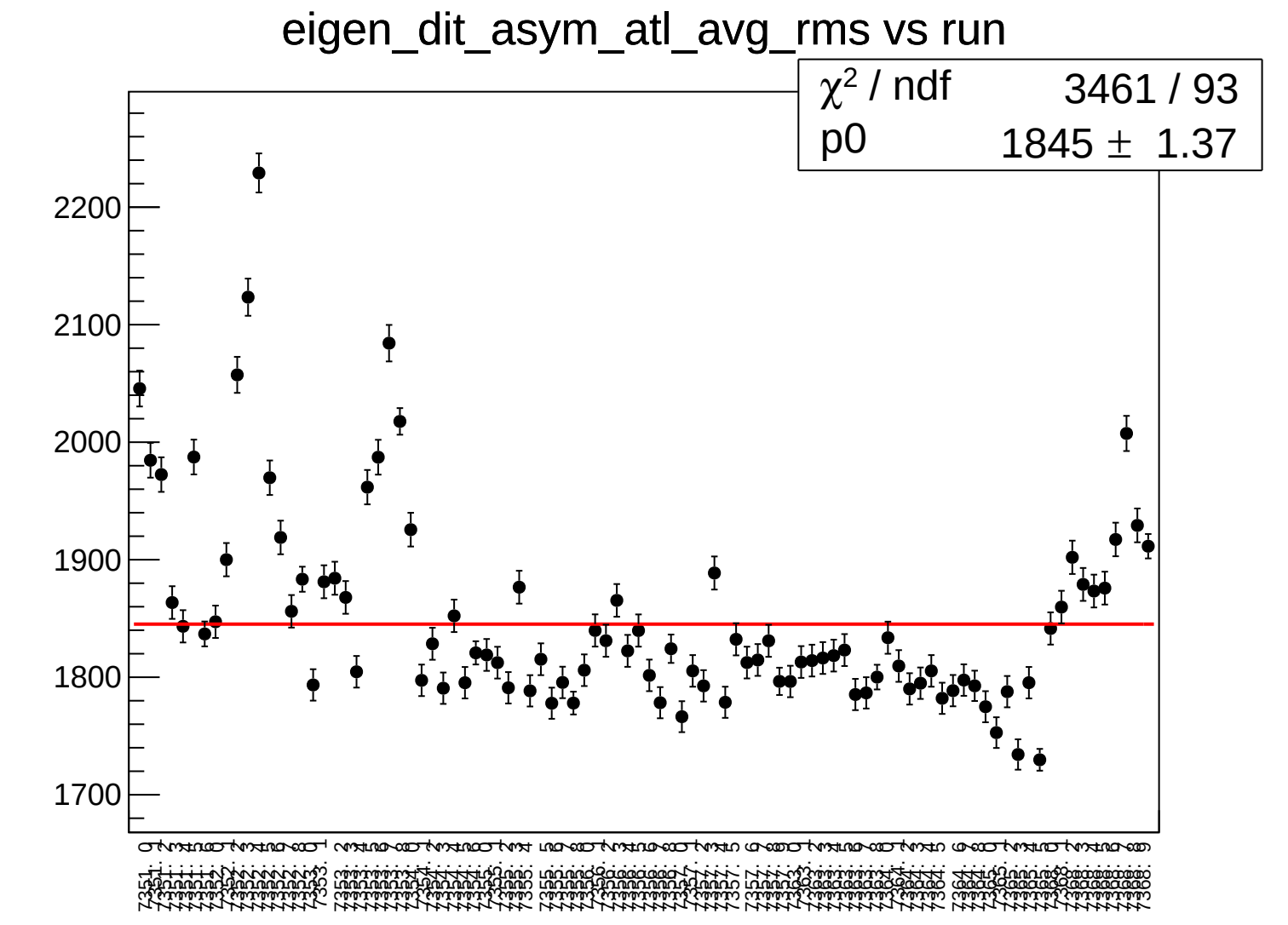

dit_asym_atl_avg_rms vs run
χ² / ndf 3461 / 93
p0 1845 ± 1.37
2200
2100
2000
1900
1800
1700

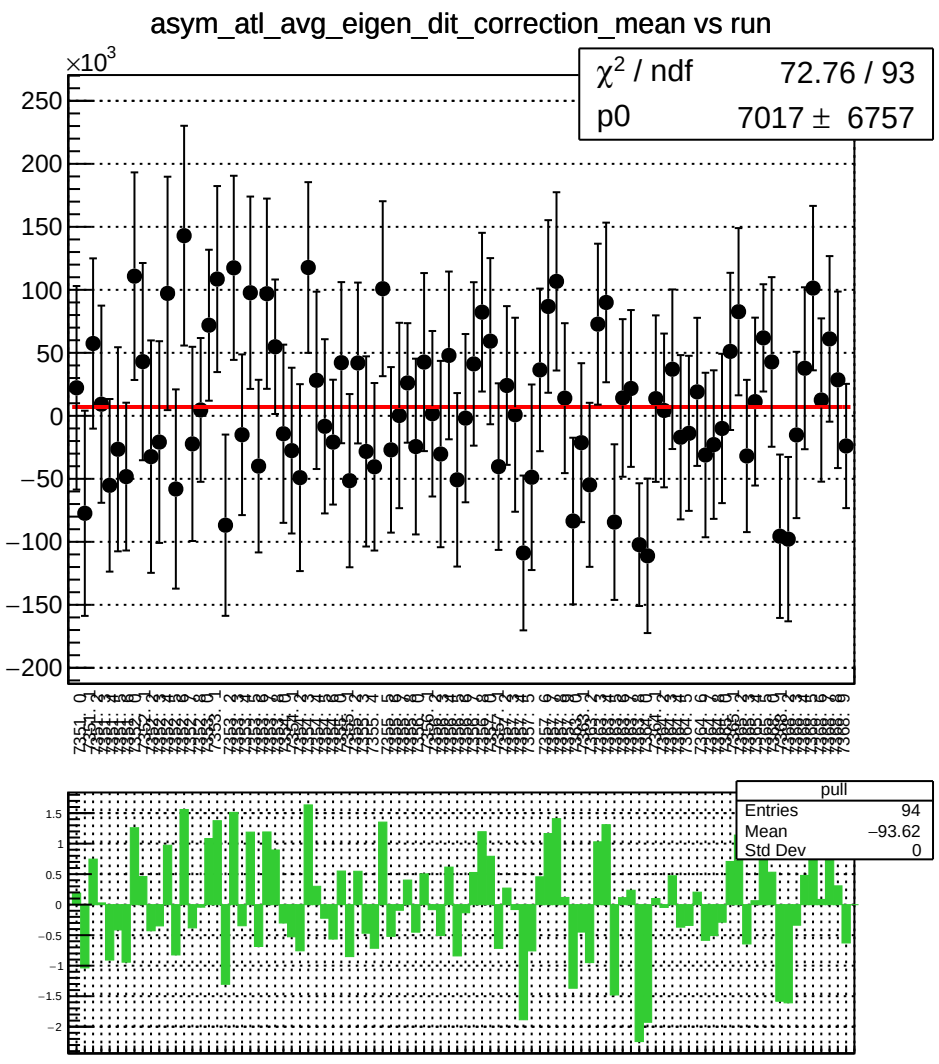

asym_atl_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 72.76 / 93
p0 7017 ± 6757
pull
Entries 94
Mean −93.62
Std Dev 0

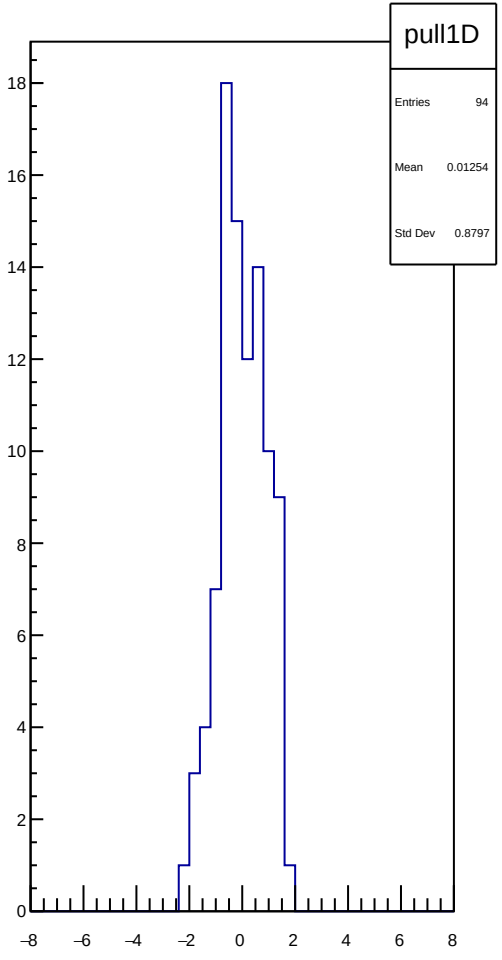

pull1D
Entries 94
Mean 0.01254
Std Dev 0.8797

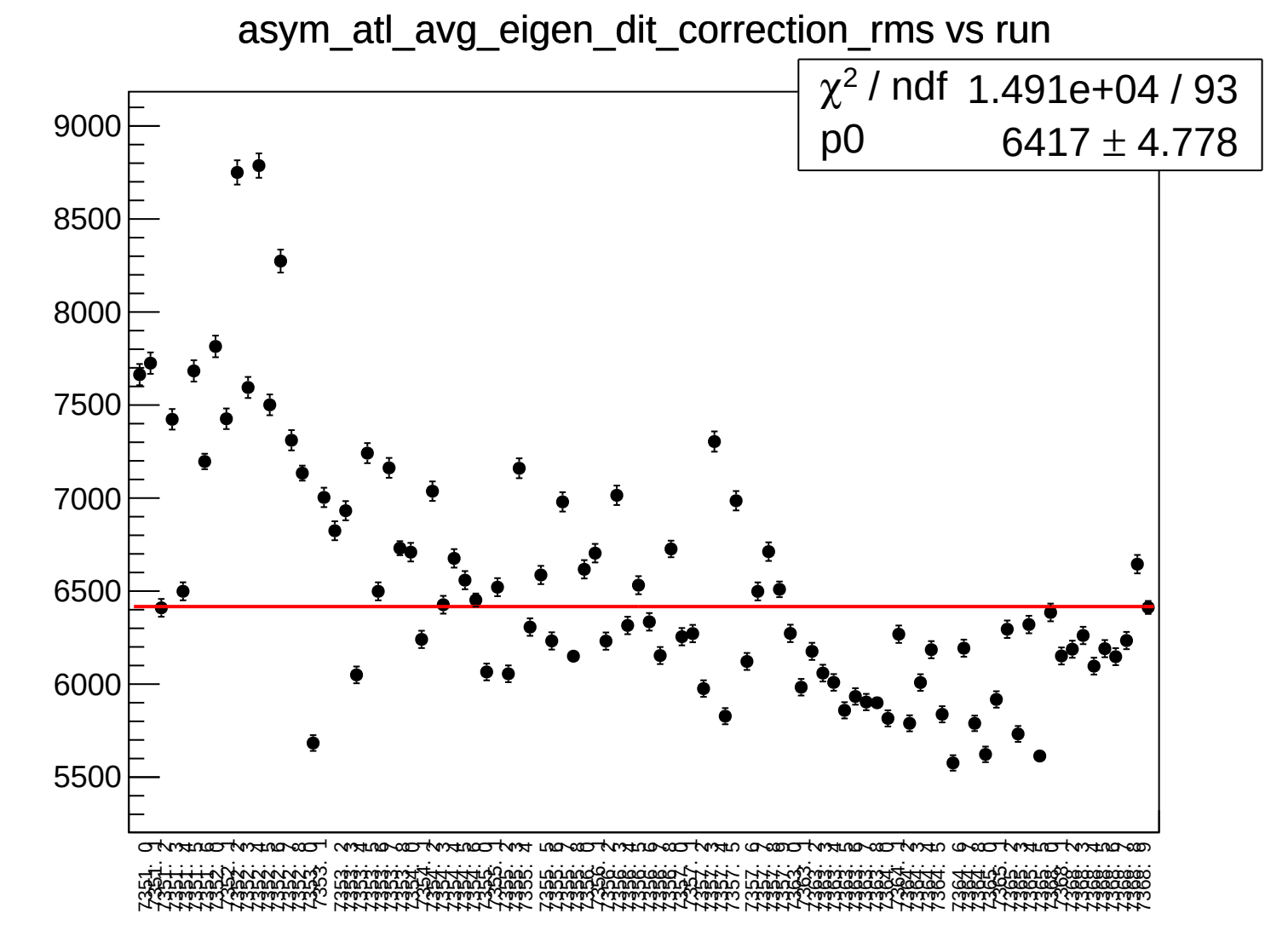

asym_atl_avg_dit_correction_rms vs run
χ^2 / ndf 1.491e+04 / 93
p0 6417 ± 4.778
9000
8500
8000
7500
7000
6500
6000
5500

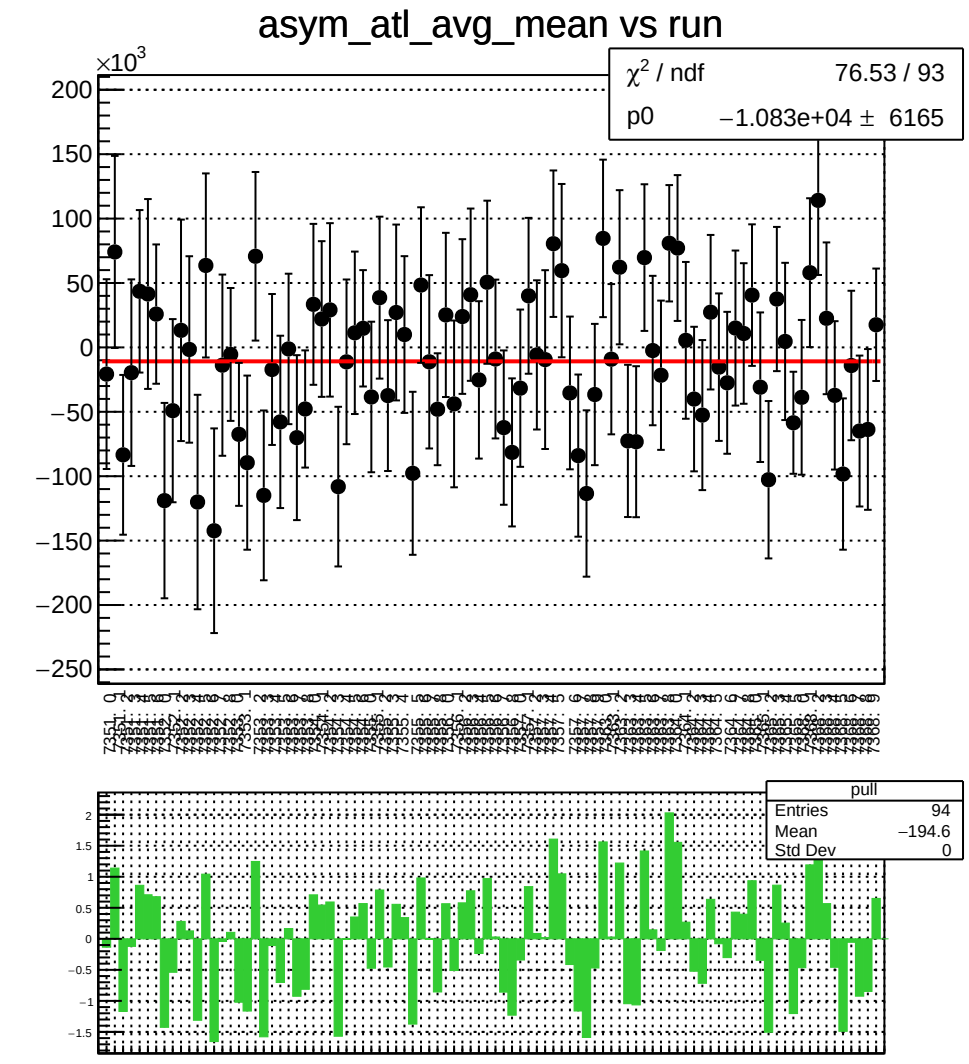

eigen_dit_asym_atl_avg_mean vs run
χ² / ndf 77.93 / 93
p0 −3622 ± 1937
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 133.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 94
Mean 0.009758
Std Dev 0.9105
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

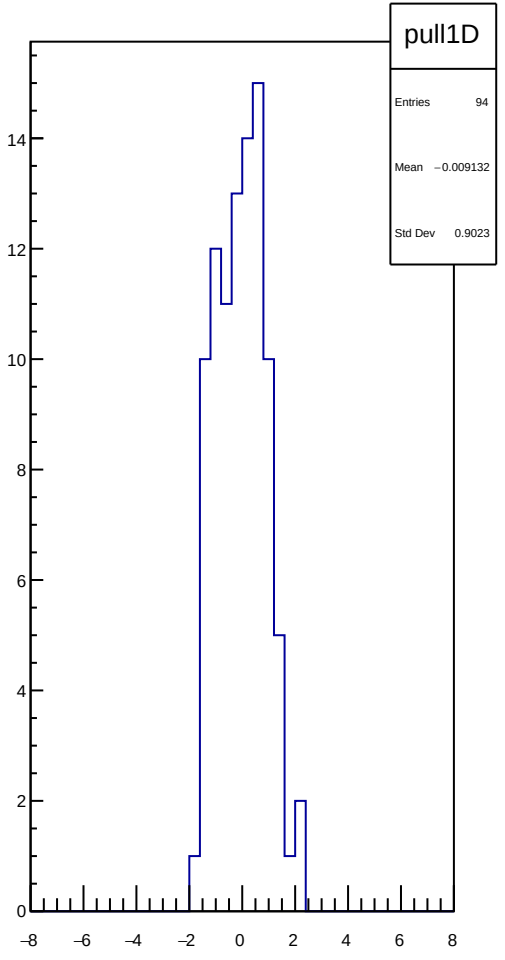

eigen_dit_asym_atl_avg_rms vs run
χ² / ndf 3461 / 93
p0 1845 ± 1.37
2200
2100
2000
1900
1800
1700

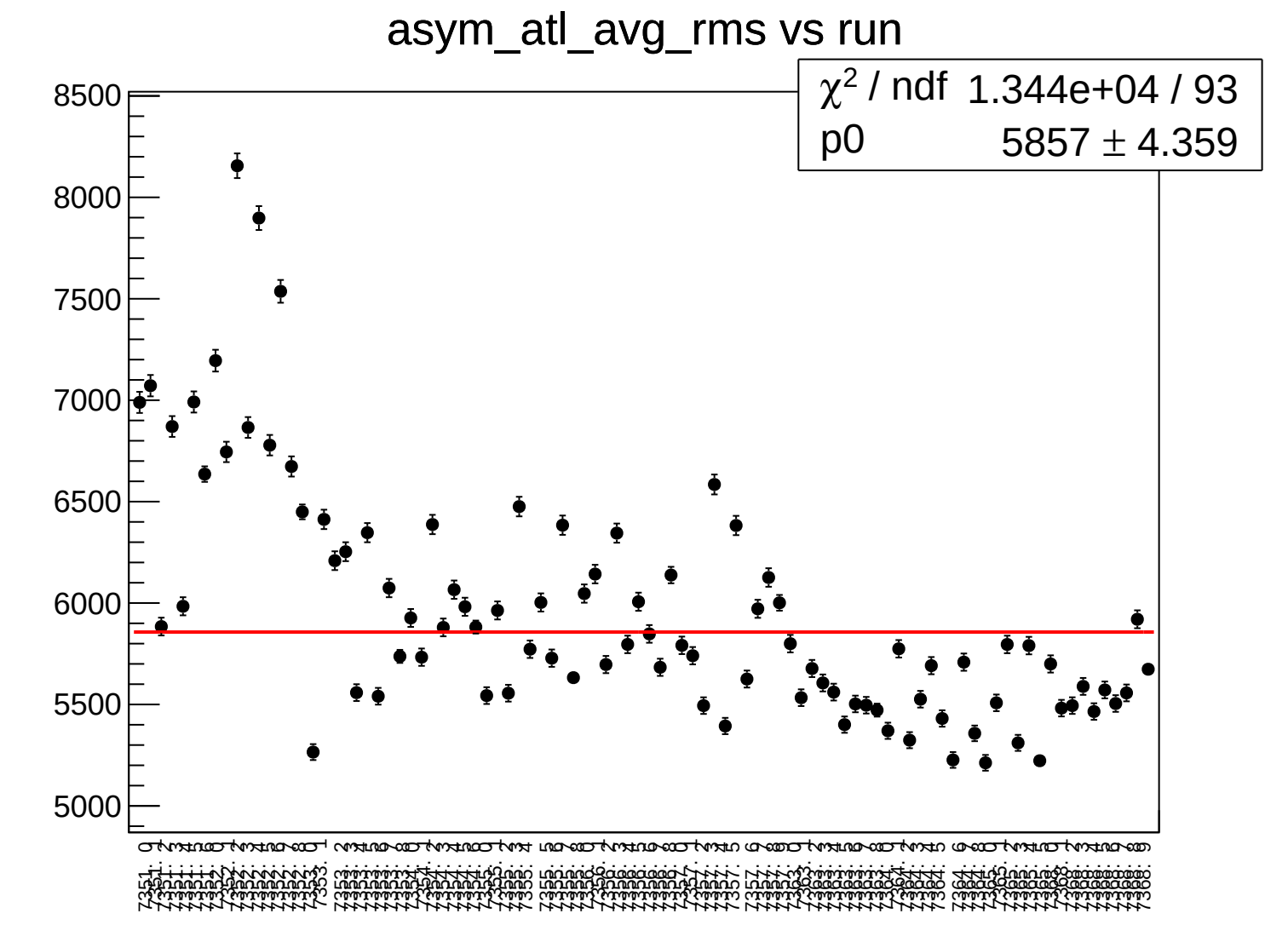

asym_atl_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 72.76 / 93
p0 7017 ± 6757
pull
Entries 94
Mean −93.62
Std Dev 0

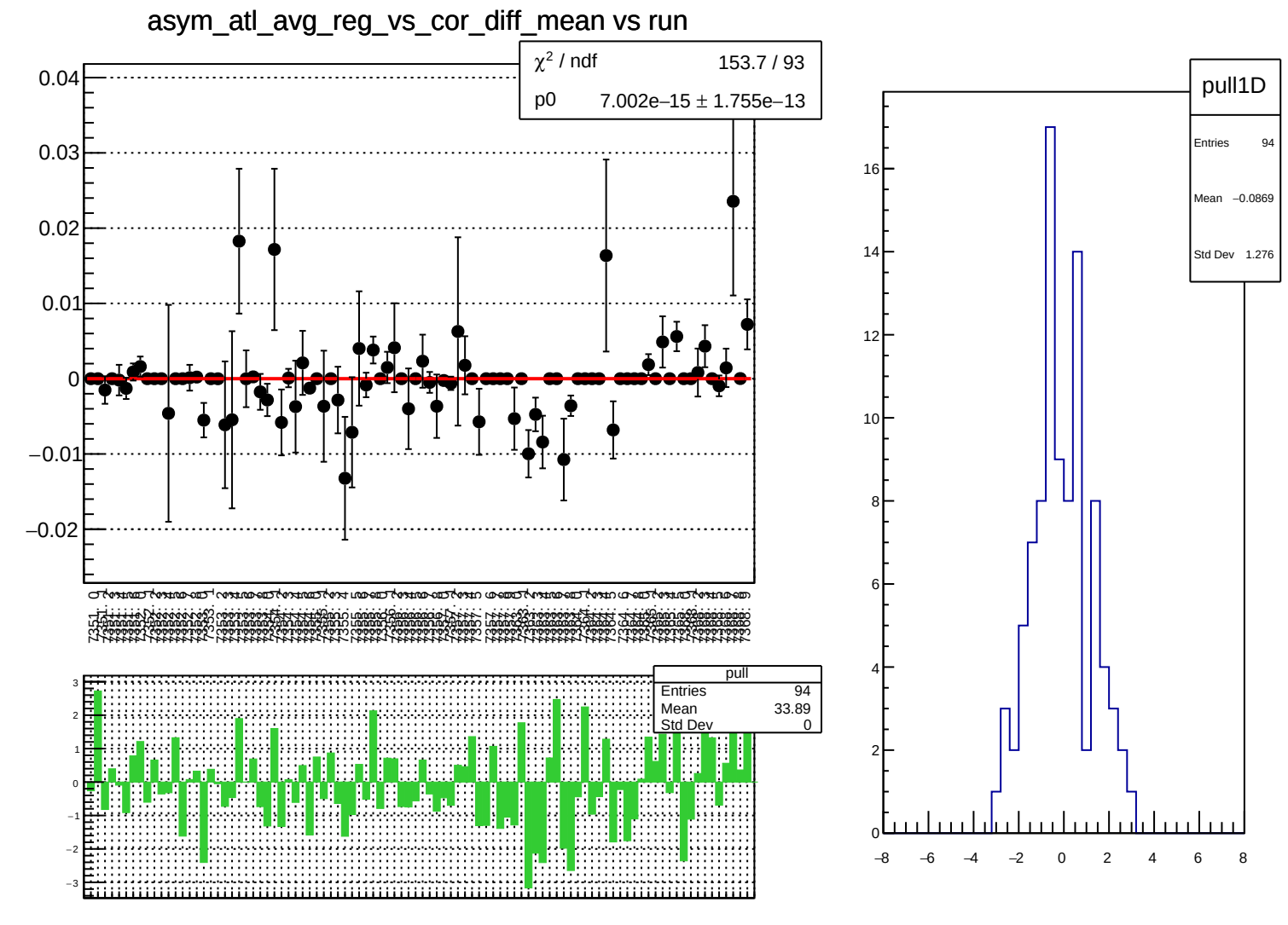

pull1D
Entries 94
Mean 0.01254
Std Dev 0.8797

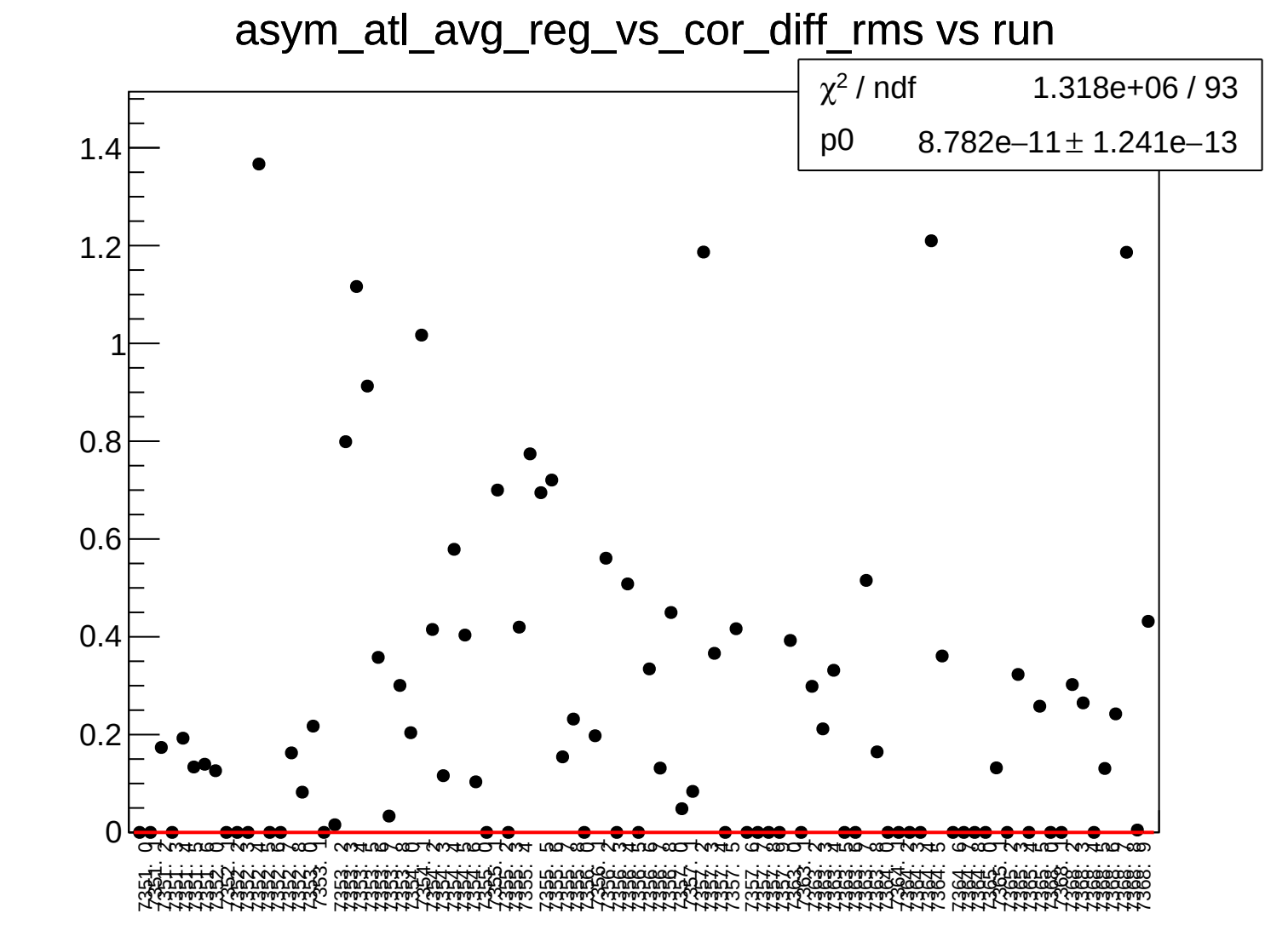

asym_atl_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.491e+04 / 93
p0 6417 ± 4.778
9000
8500
8000
7500
7000
6500
6000
5500

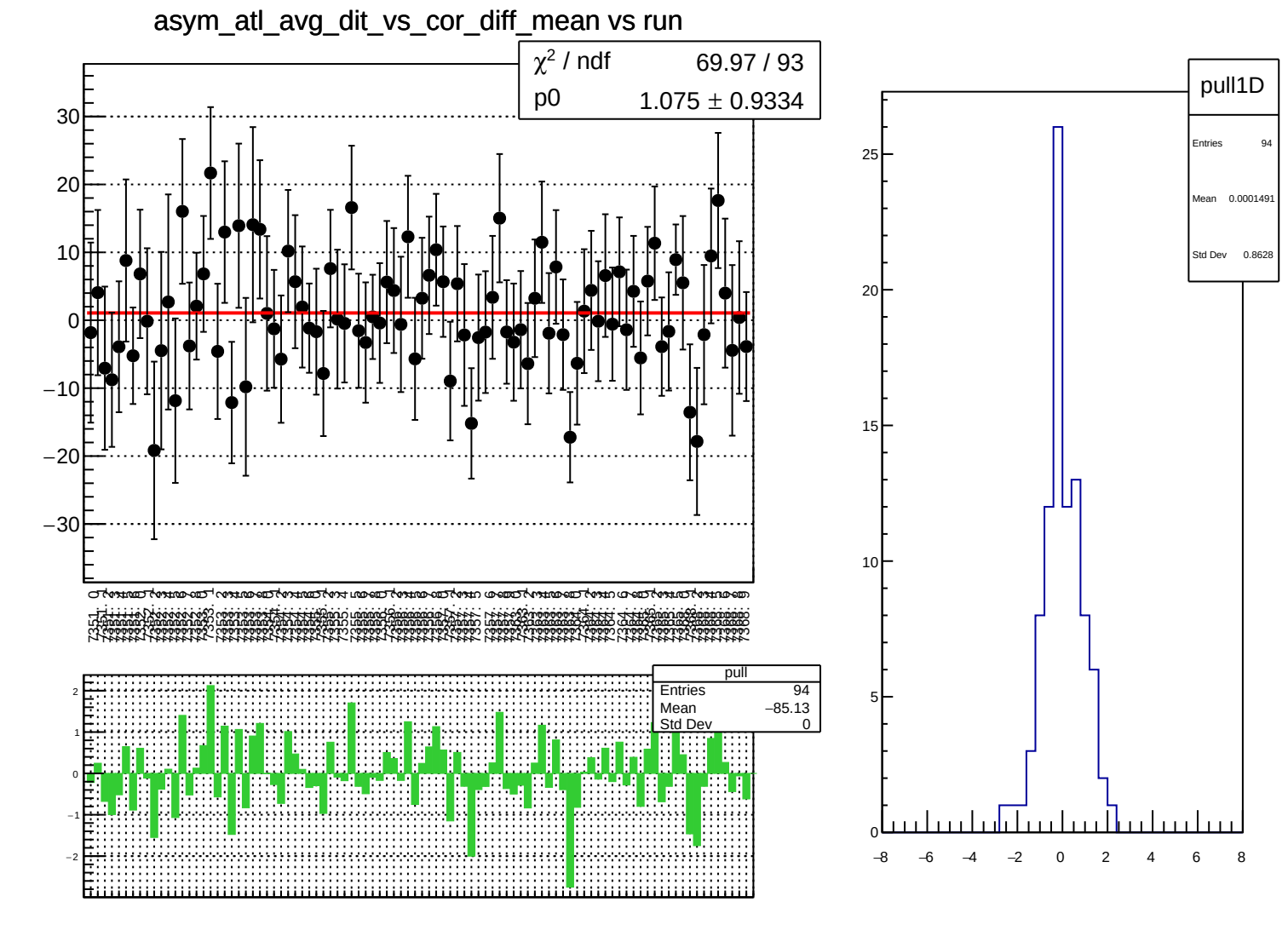

asym_atl_avg_mean vs run
×10^3
χ² / ndf 76.53 / 93
p0 −1.083e+04 ± 6165
pull
Entries 94
Mean −194.6
Std Dev 0

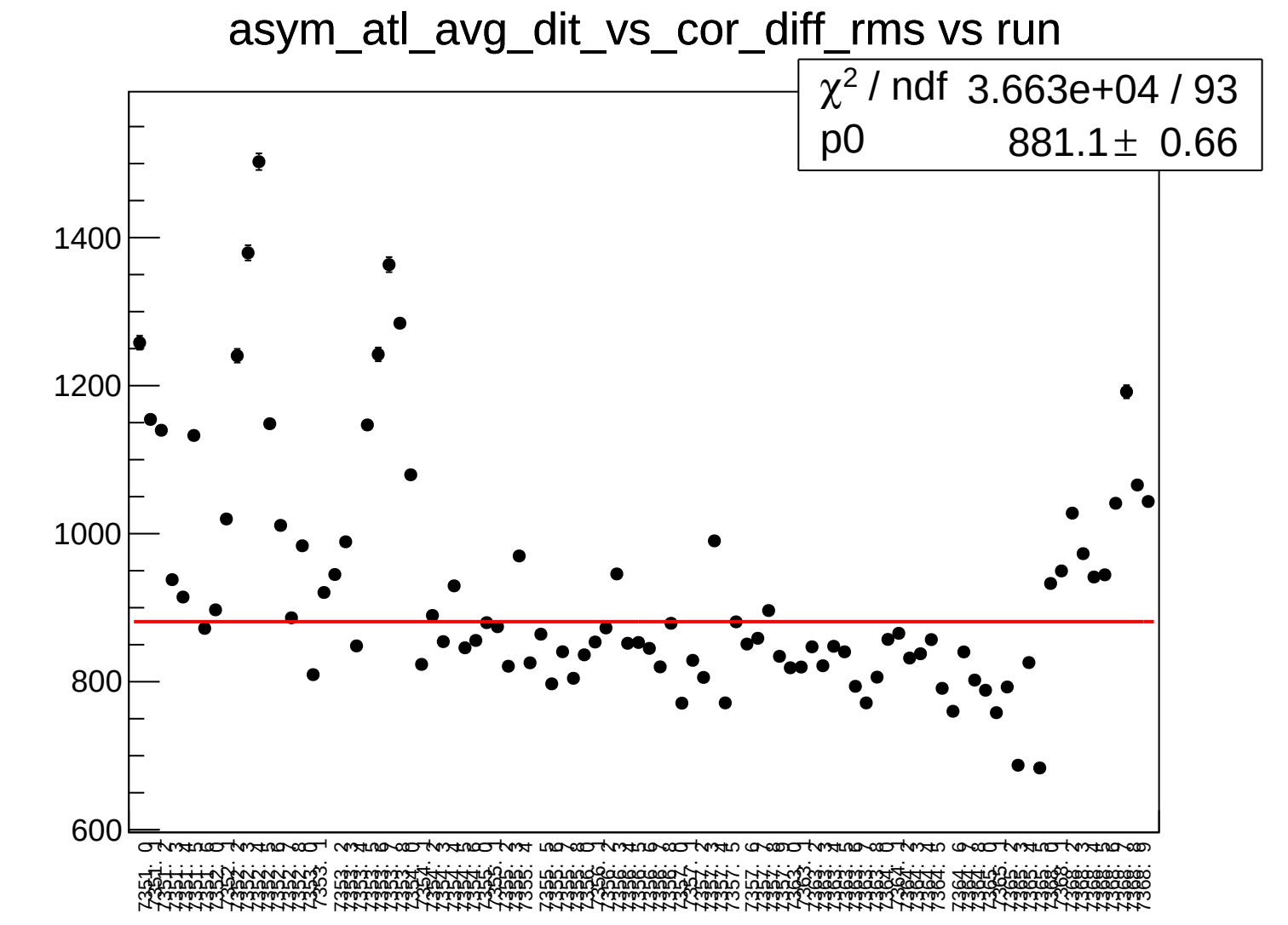

pull1D
Entries 94
Mean −0.009132
Std Dev 0.9023

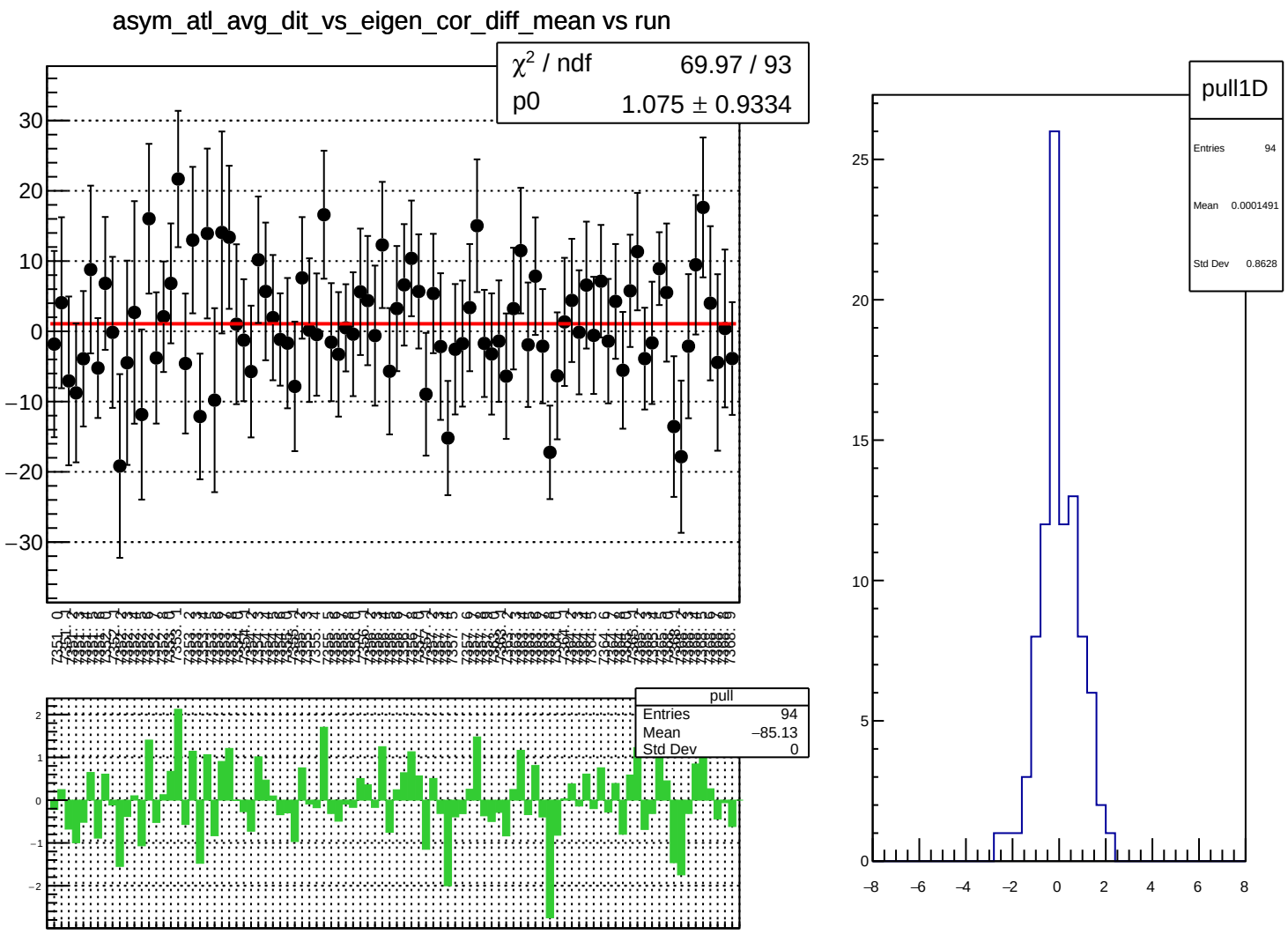

asym_atl_avg_rms vs run
χ² / ndf 1.344e+04 / 93
p0 5857 ± 4.359
8500
8000
7500
7000
6500
6000
5500
5000

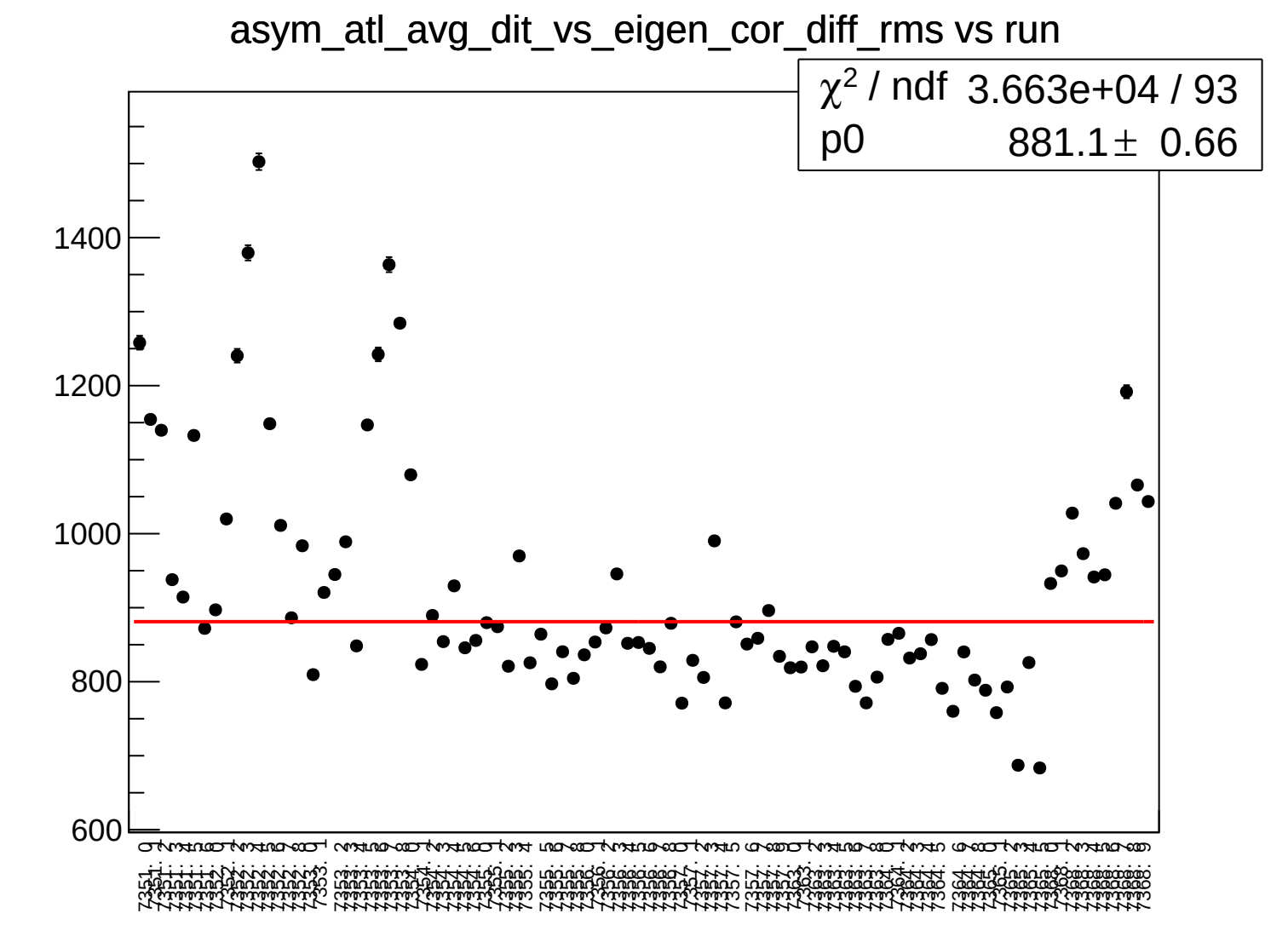

asym_atl_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 153.7 / 93
p0 7.002e−15 ± 1.755e−13
0.04
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 94
Mean 33.89
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.0869
Std Dev 1.276
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

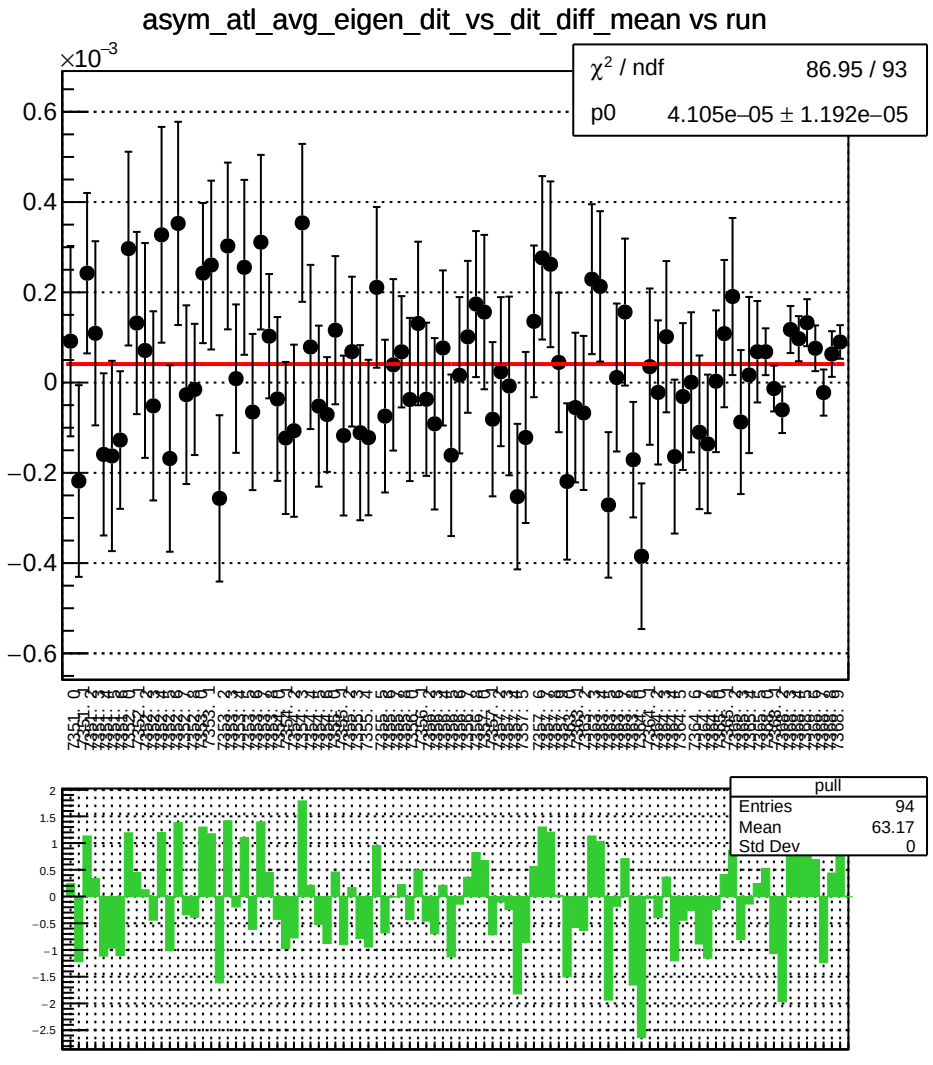

asym_atl_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.318e+06 / 93
p0 8.782e−11 ± 1.241e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

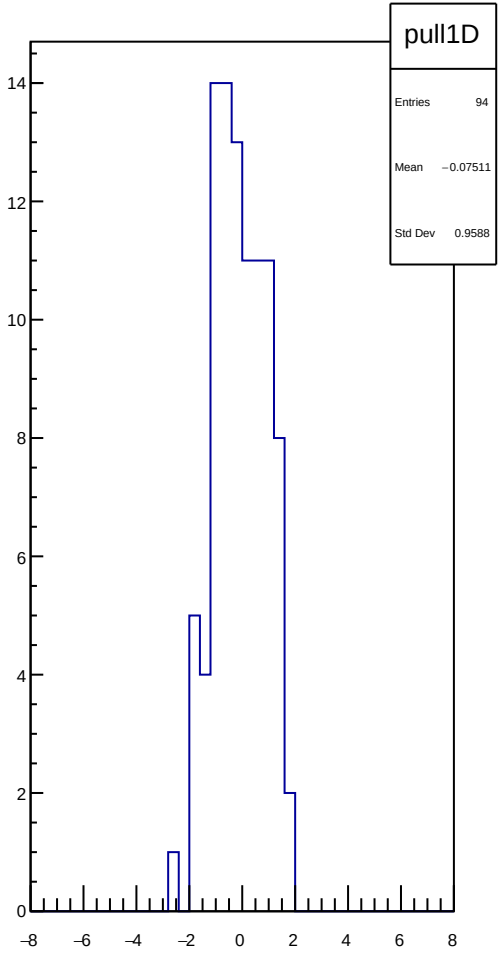

asym_atl_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 69.97 / 93
p0 1.075 ± 0.9334
pull
Entries 94
Mean −85.13
Std Dev 0
pull1D
Entries 94
Mean 0.0001491
Std Dev 0.8628

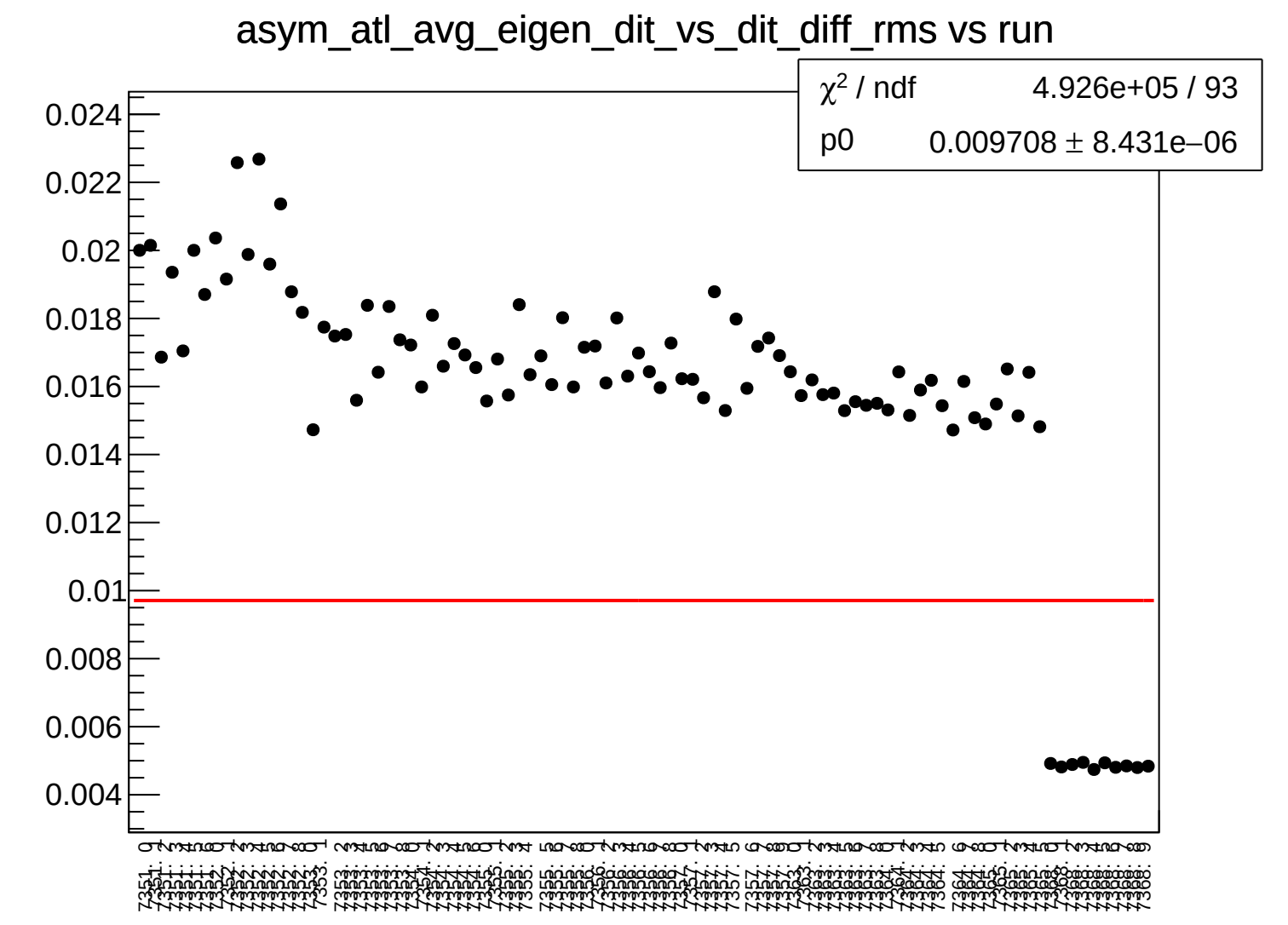

asym_atl_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.663e+04 / 93
p0 881.1 ± 0.66
1400
1200
1000
800
600

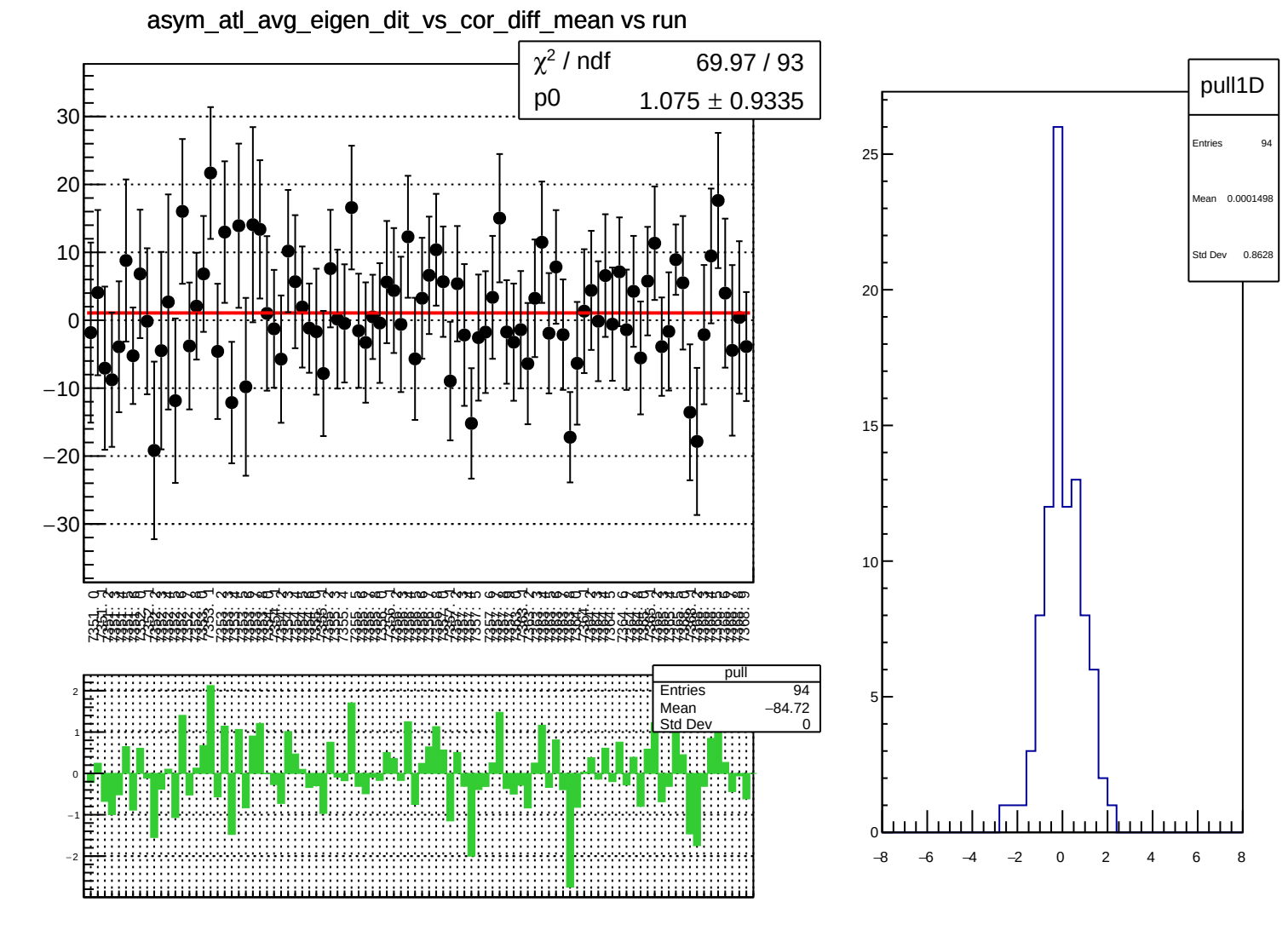

asym_atl_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.97 / 93
p0 1.075 ± 0.9334
pull
Entries 94
Mean −85.13
Std Dev 0
pull1D
Entries 94
Mean 0.0001491
Std Dev 0.8628

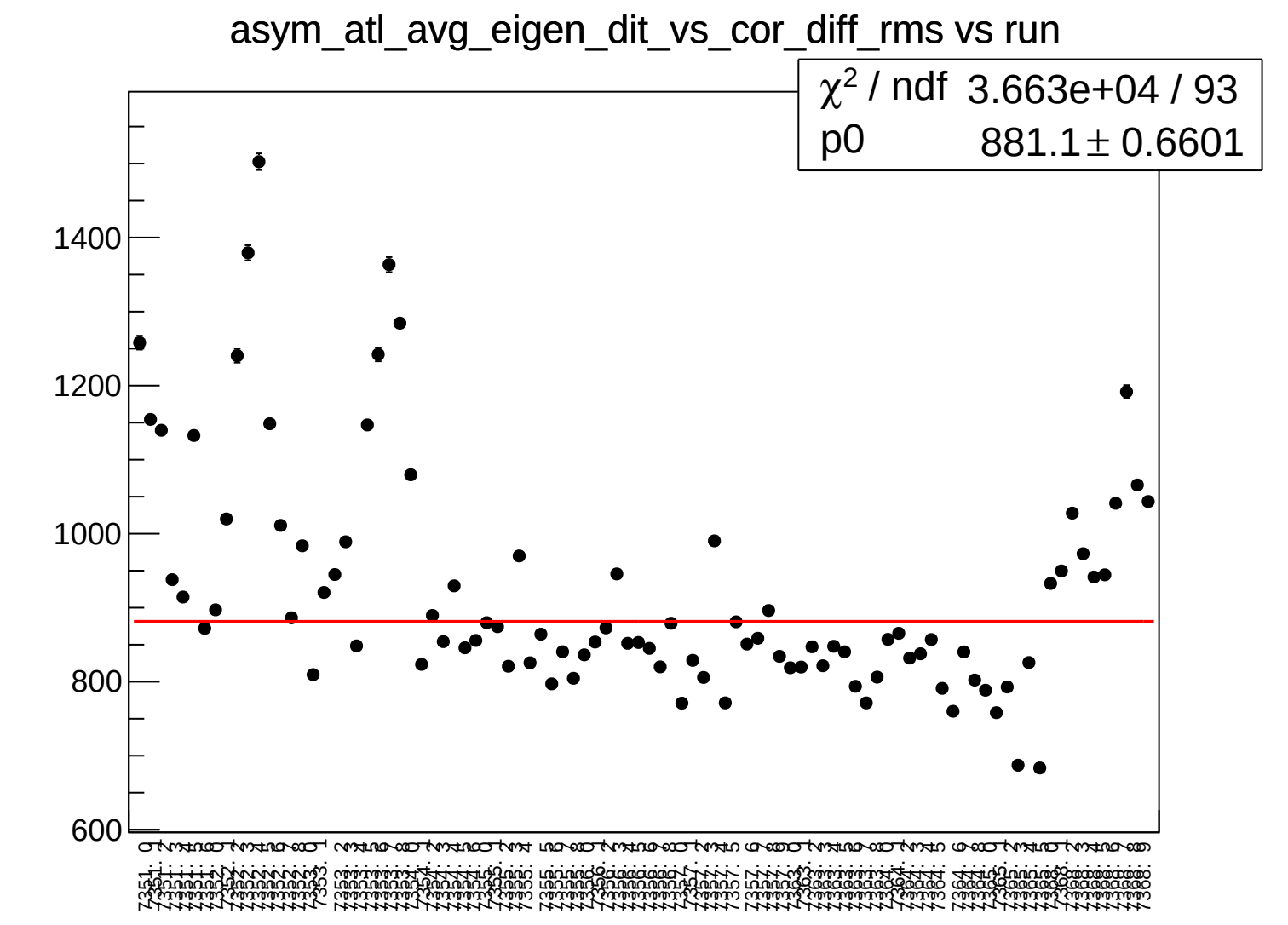

asym_atl_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.663e+04 / 93
p0 881.1 ± 0.66
1400
1200
1000
800
600

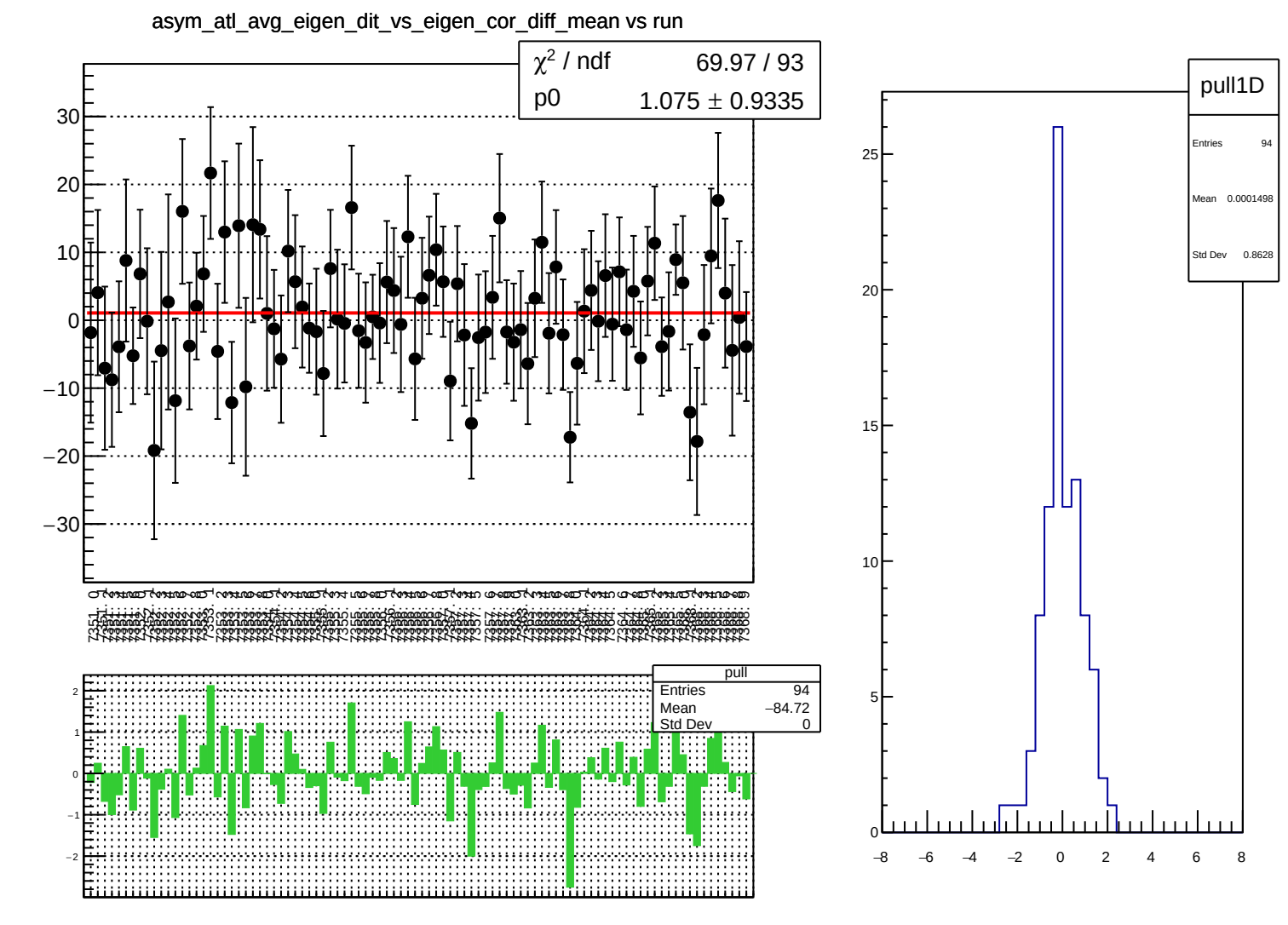

asym_atl_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 86.95 / 93
p0 4.105e−05 ± 1.192e−05
pull
Entries 94
Mean 63.17
Std Dev 0

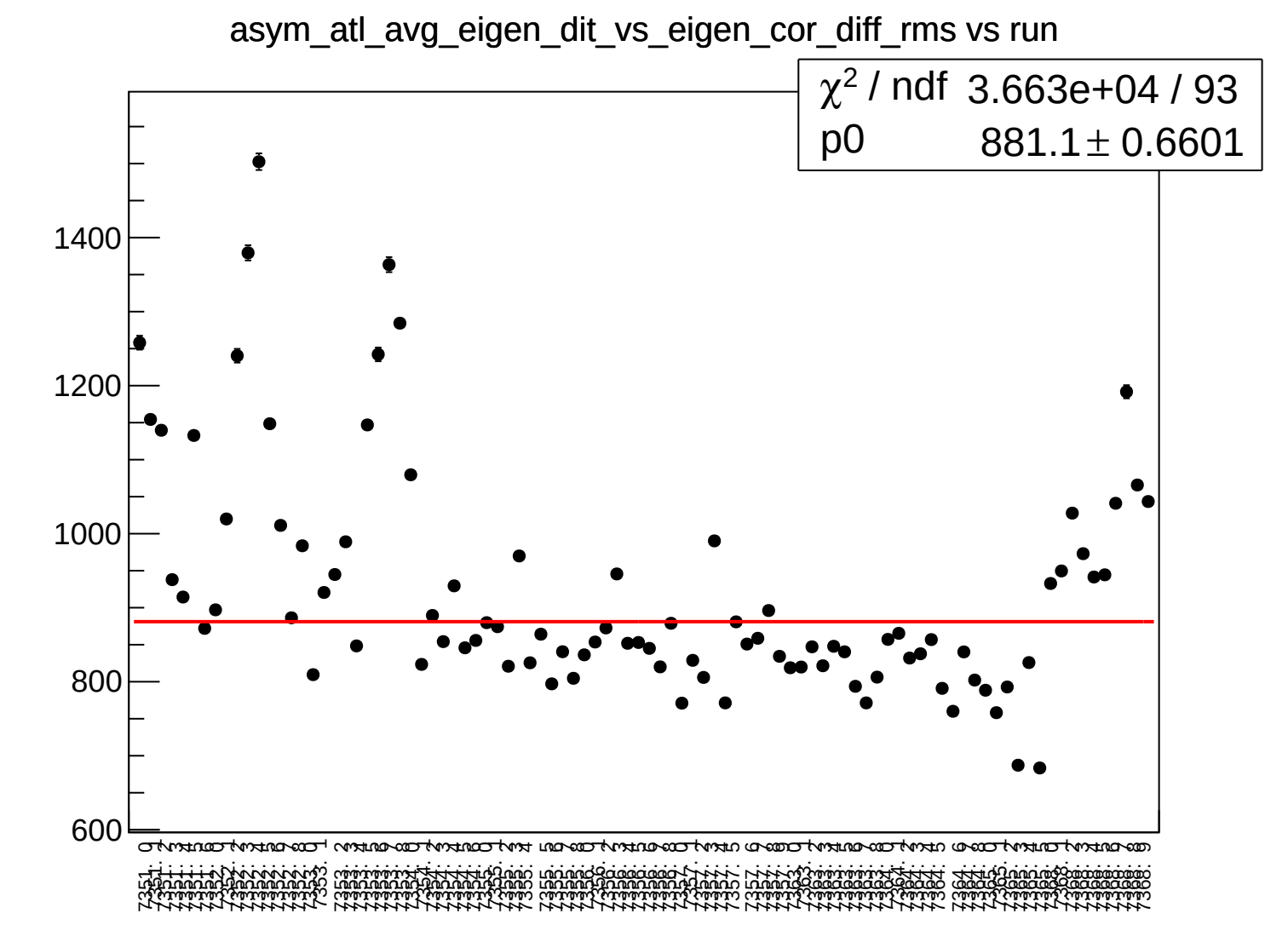

pull1D
Entries 94
Mean −0.07511
Std Dev 0.9588

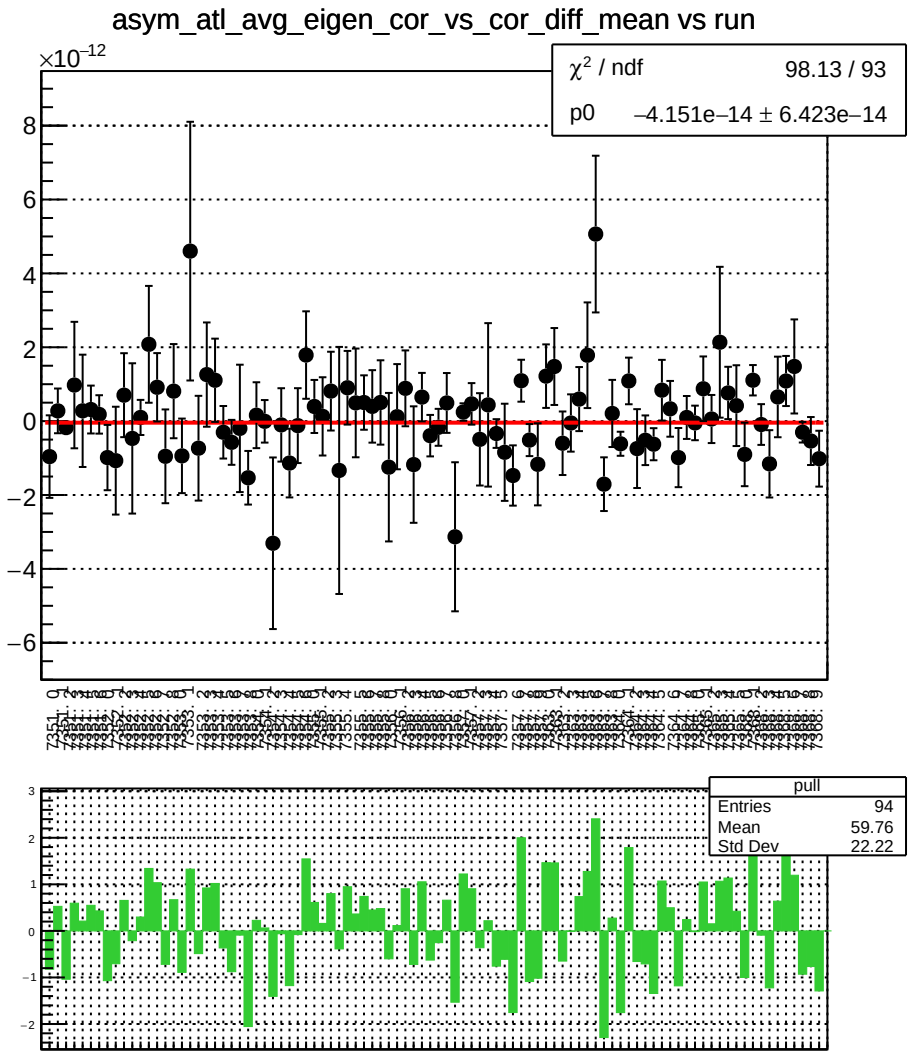

asym_atl_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.926e+05 / 93
p0 0.009708 ± 8.431e−06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

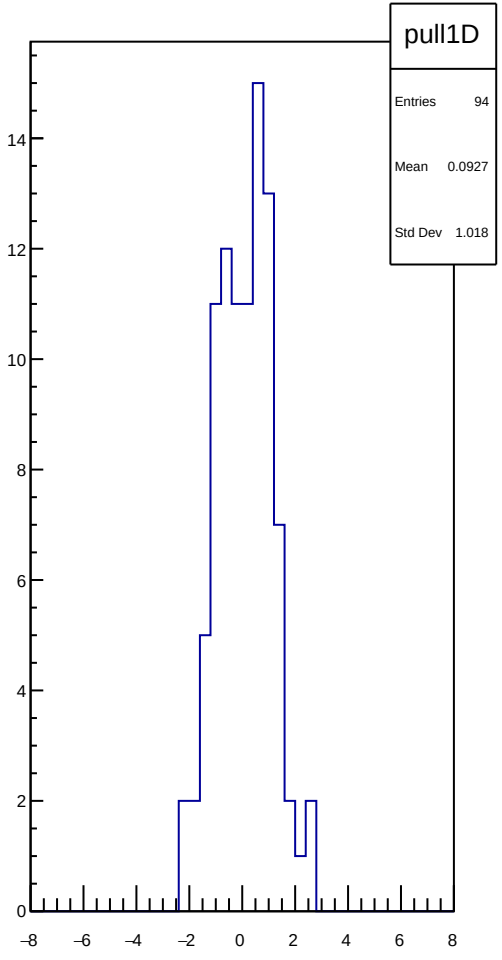

asym_atl_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 69.97 / 93
p0 1.075 ± 0.9335
pull
Entries 94
Mean −84.72
Std Dev 0
pull1D
Entries 94
Mean 0.0001498
Std Dev 0.8628

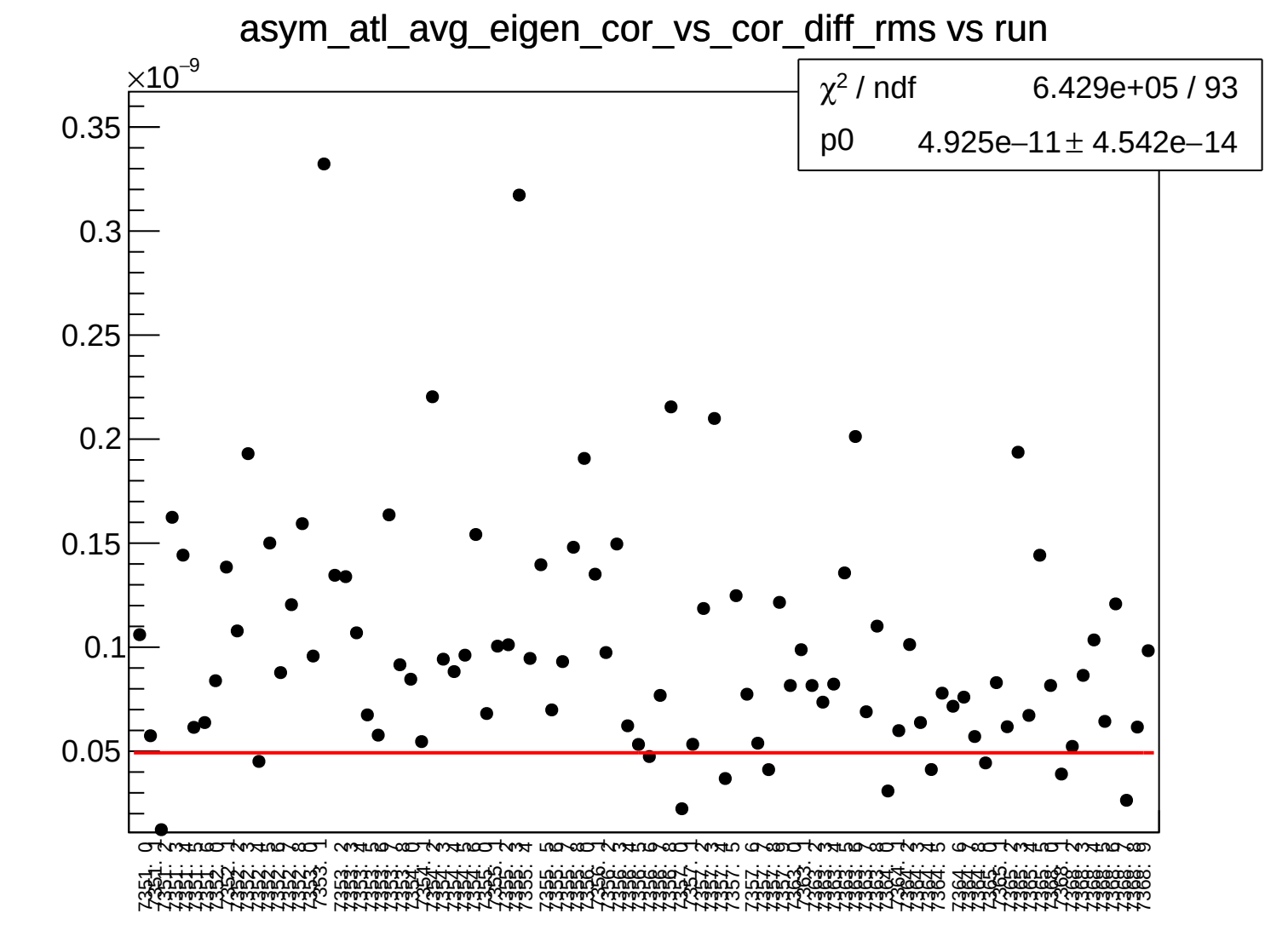

asym_atl_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.663e+04 / 93
p0 881.1 ± 0.6601
1400
1200
1000
800
600

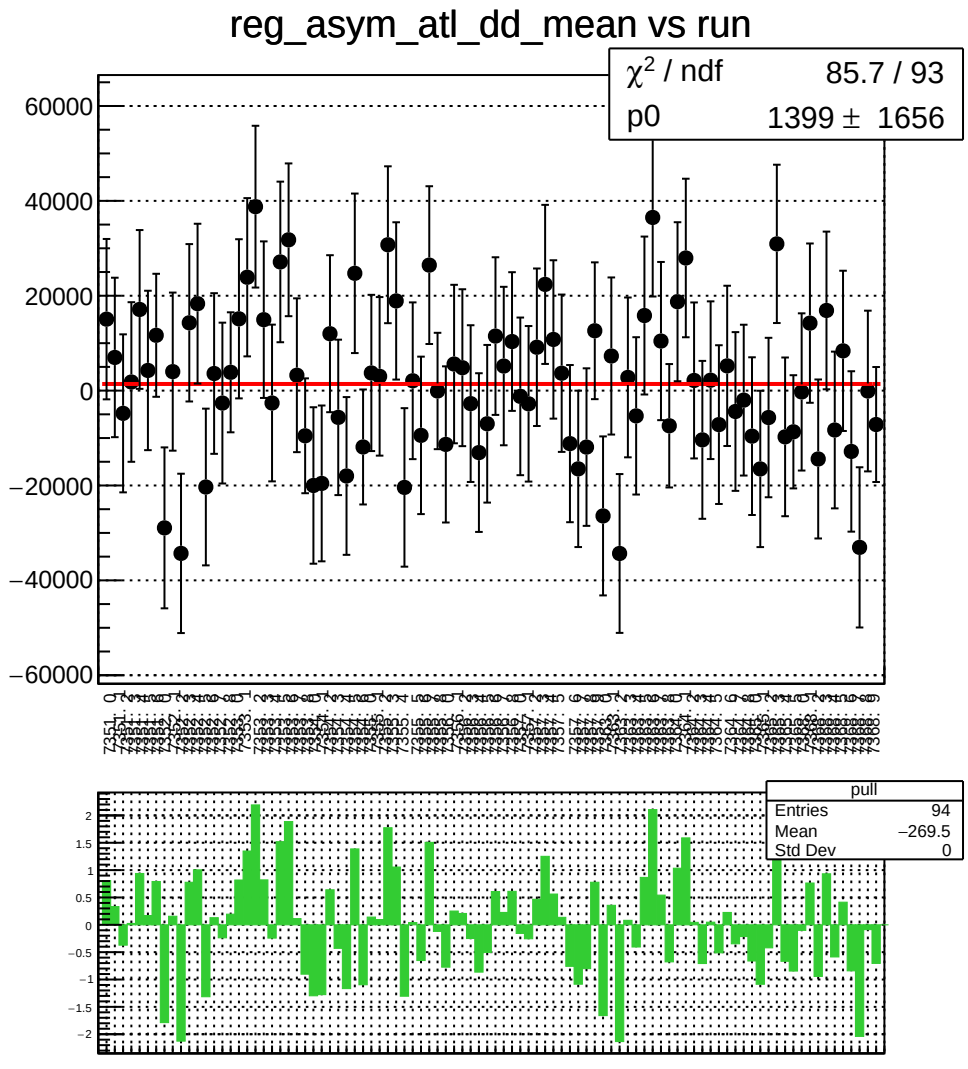

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.97 / 93
p0 1.075 ± 0.9335
pull
Entries 94
Mean −84.72
Std Dev 0
pull1D
Entries 94
Mean 0.0001498
Std Dev 0.8628

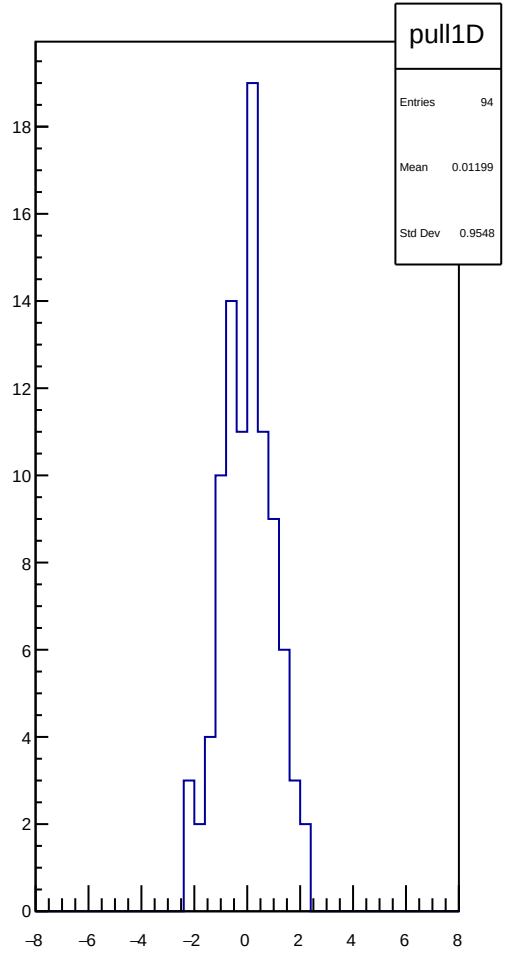

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.663e+04 / 93
p0 881.1 ± 0.6601
1400
1200
1000
800
600

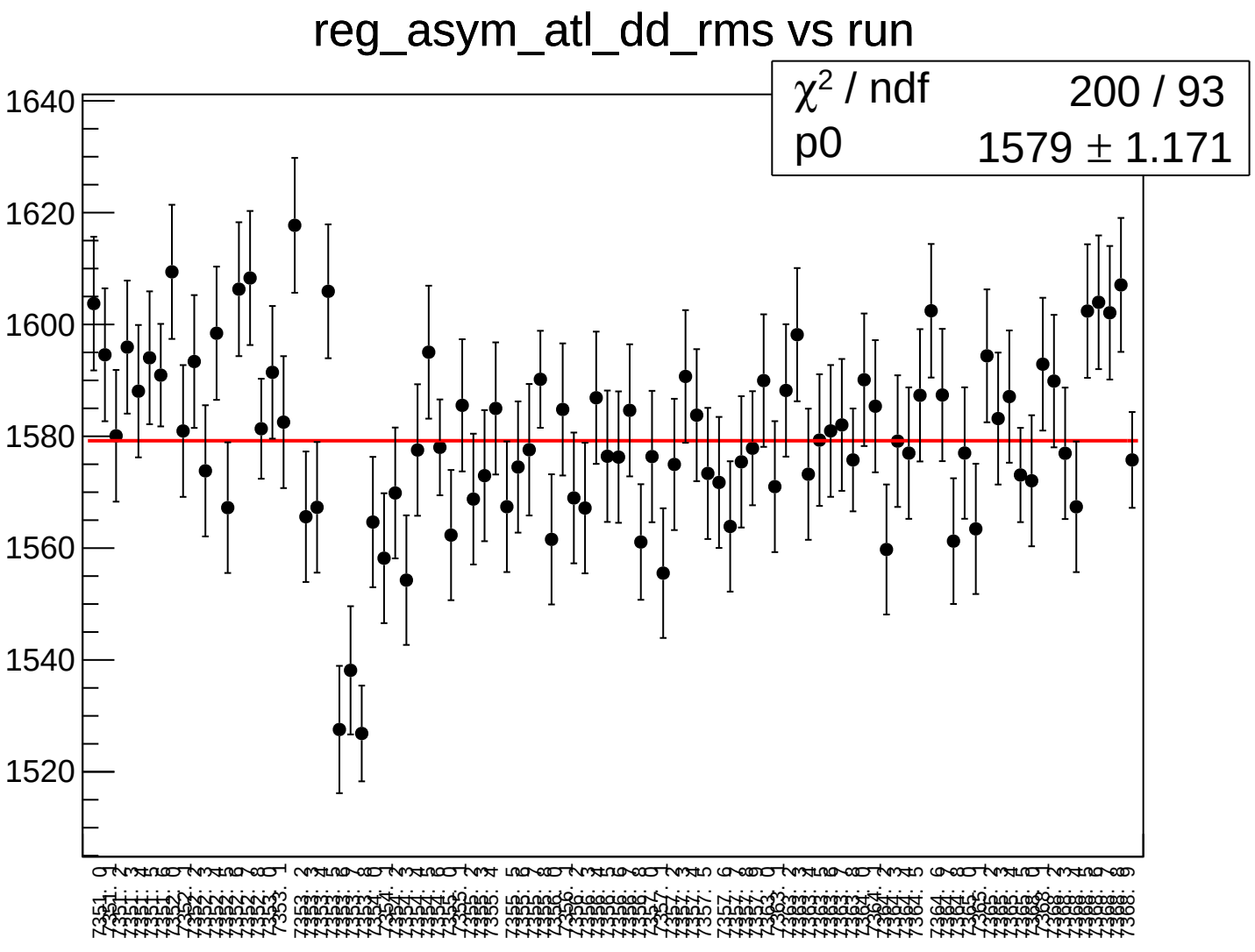

asym_atl_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.13 / 93
p0 −4.151e−14 ± 6.423e−14
pull
Entries 94
Mean 59.76
Std Dev 22.22

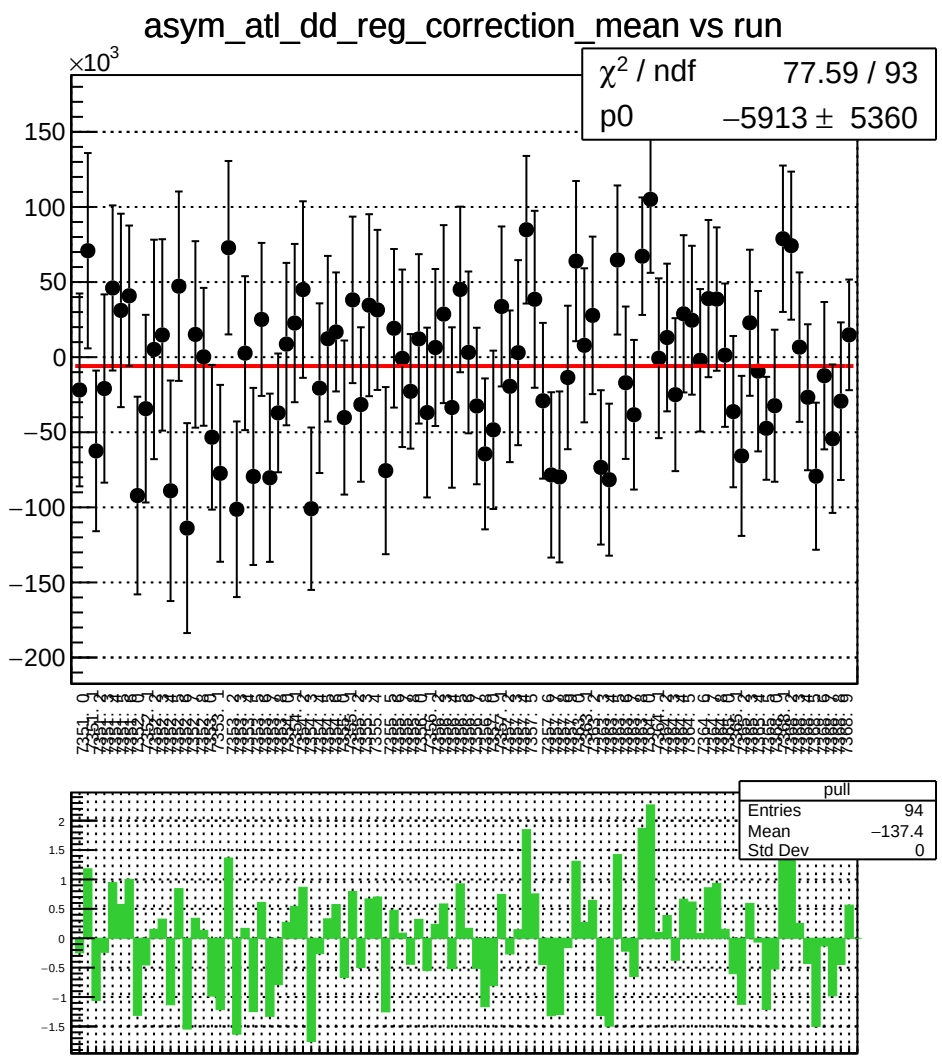

pull1D
Entries 94
Mean 0.0927
Std Dev 1.018

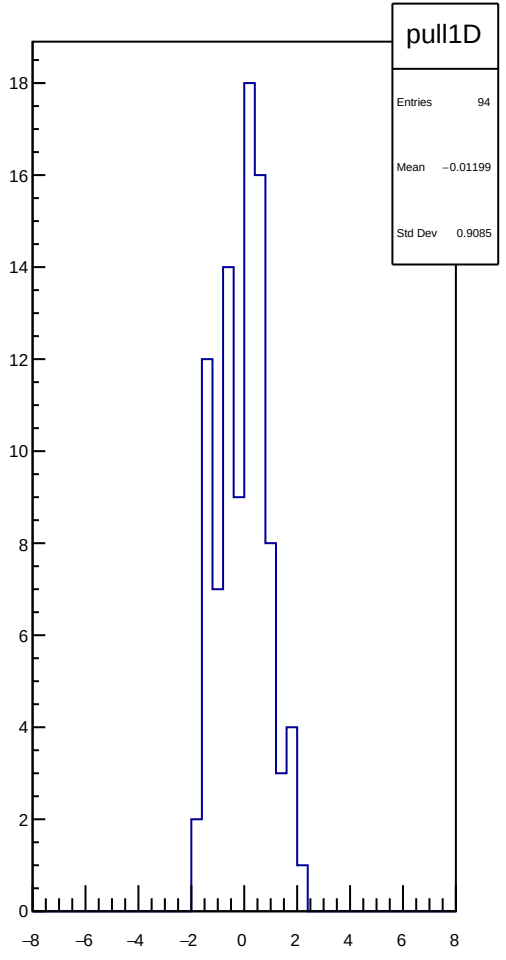

asym_atl_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.429e+05 / 93
p0 4.925e−11 ± 4.542e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

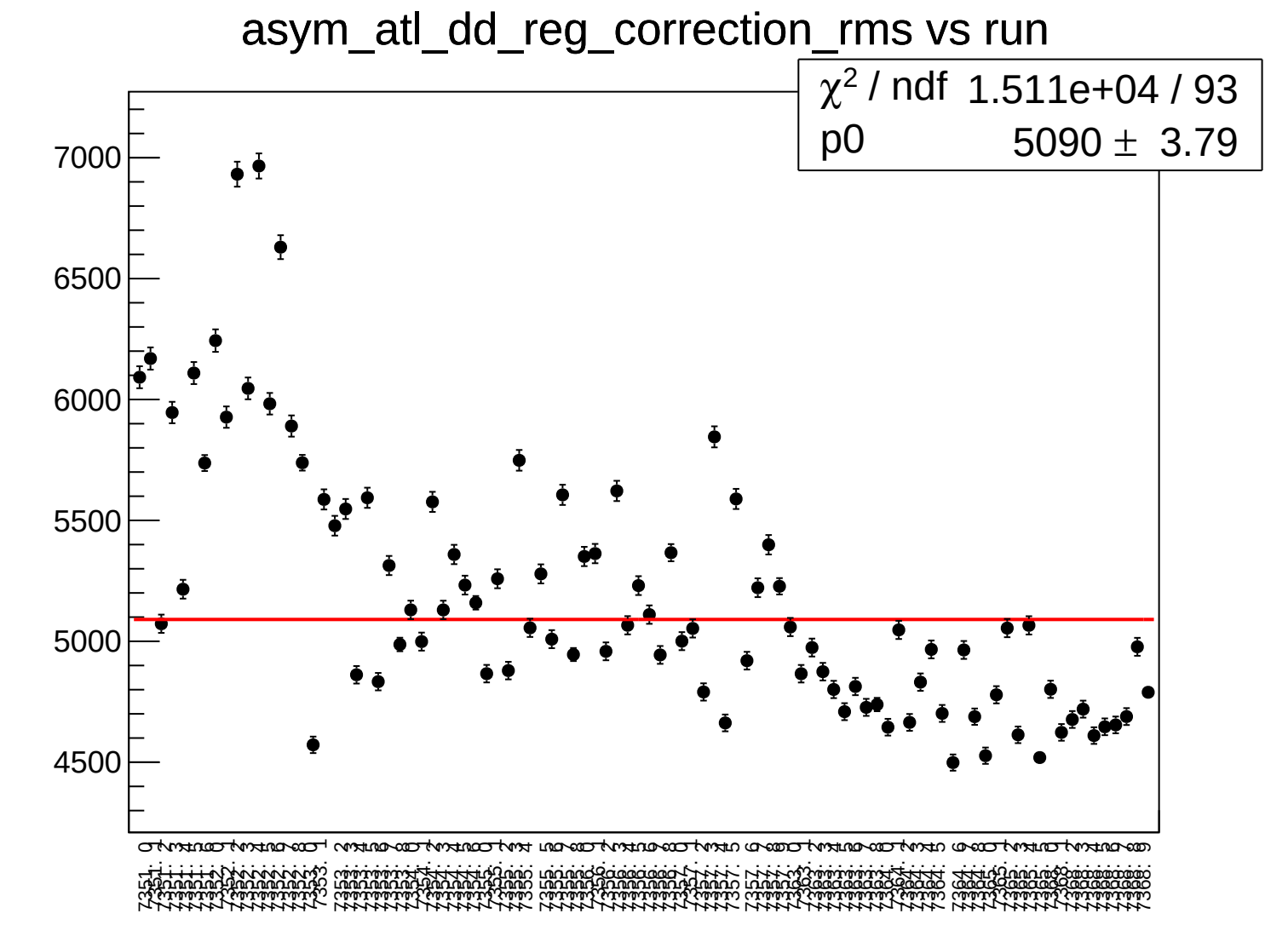

reg_asym_atl_dd_mean vs run
χ² / ndf 85.7 / 93
p0 1399 ± 1656
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −269.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

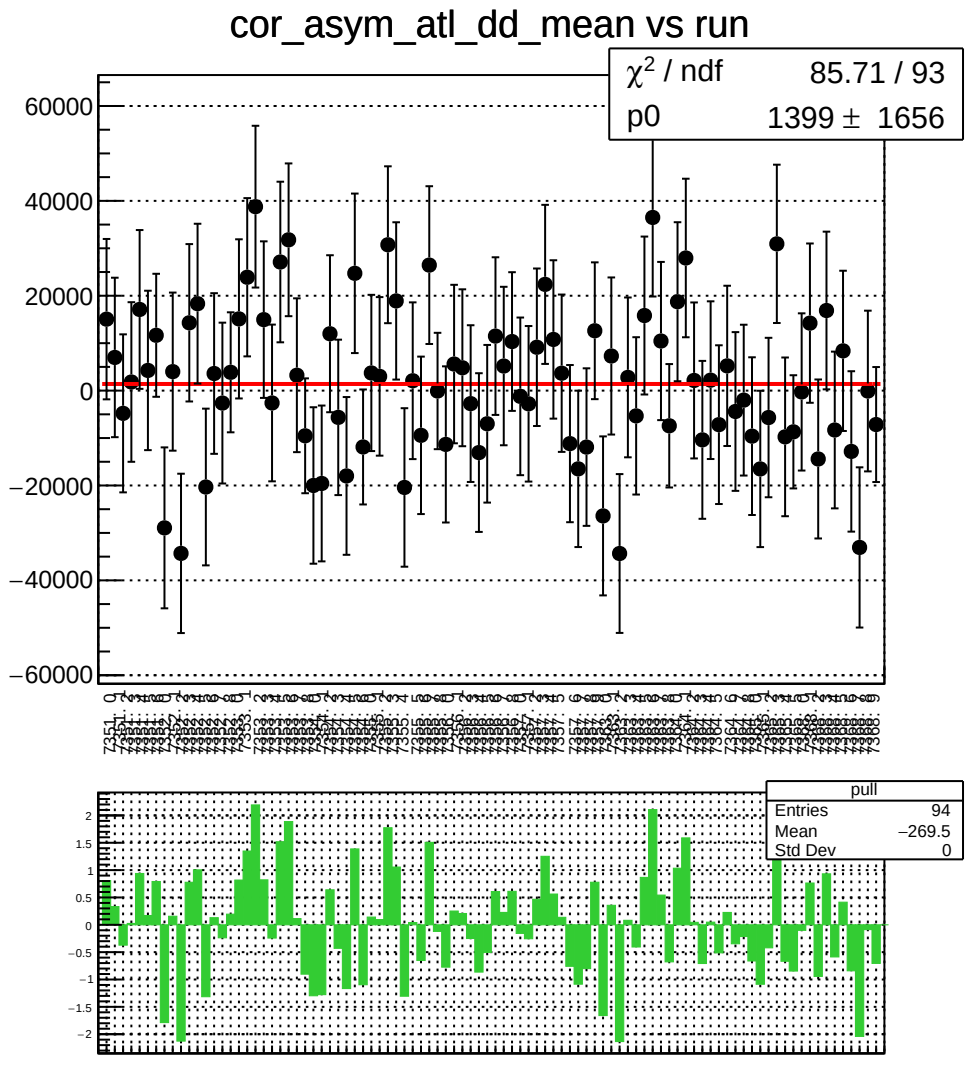

pull1D
Entries 94
Mean 0.01199
Std Dev 0.9548
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

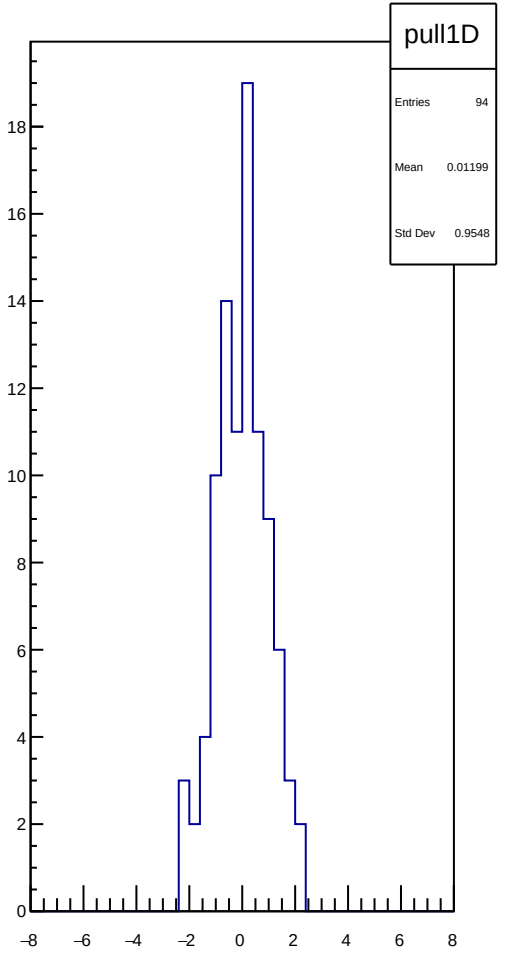

reg_asym_atl_dd_rms vs run
χ² / ndf 200 / 93
p0 1579 ± 1.171
1640
1620
1600
1580
1560
1540
1520

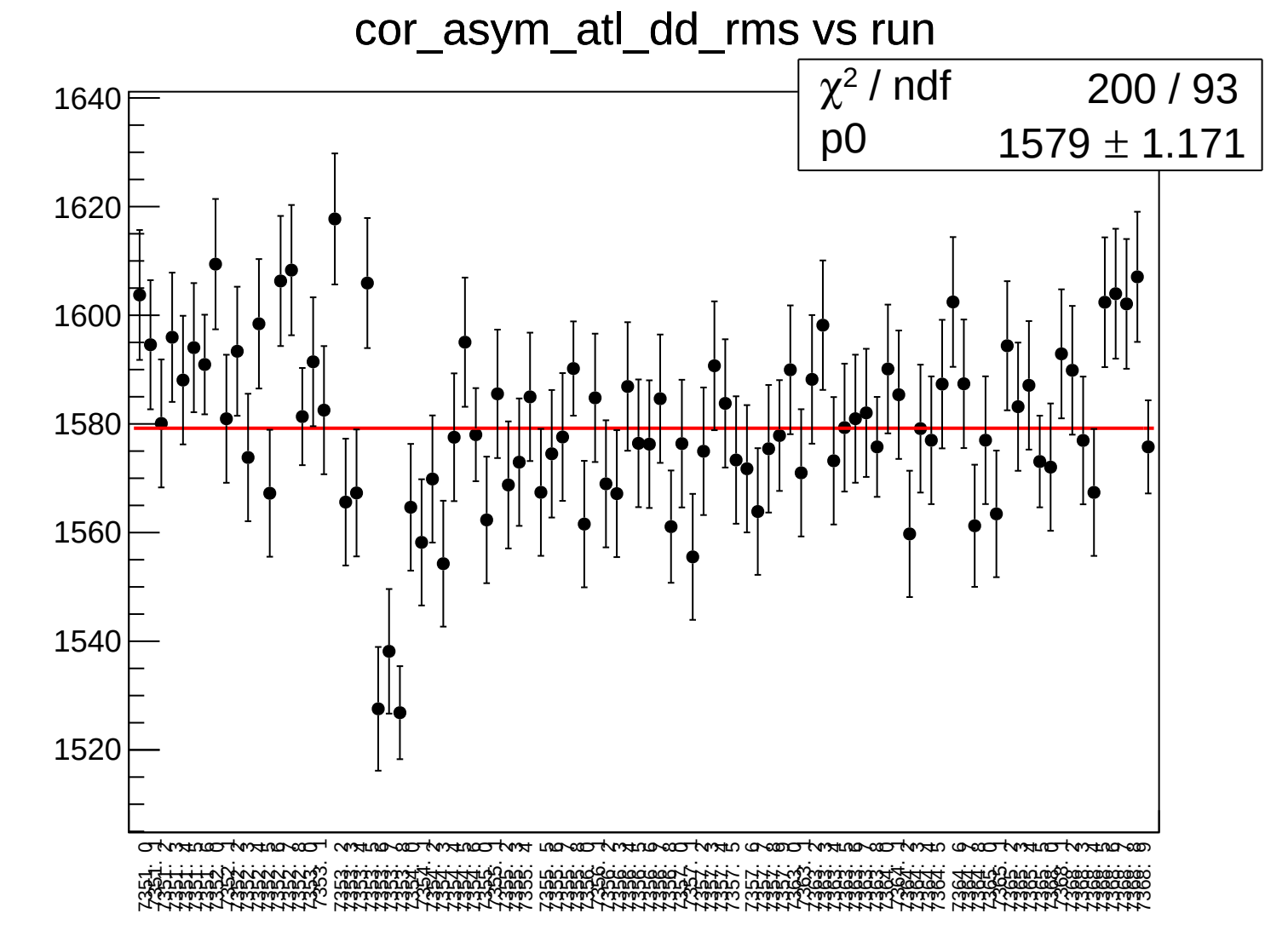

asym_atl_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 77.59 / 93
p0 −5913 ± 5360
150
100
50
0
−50
−100
−150
−200
pull
Entries 94
Mean −137.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

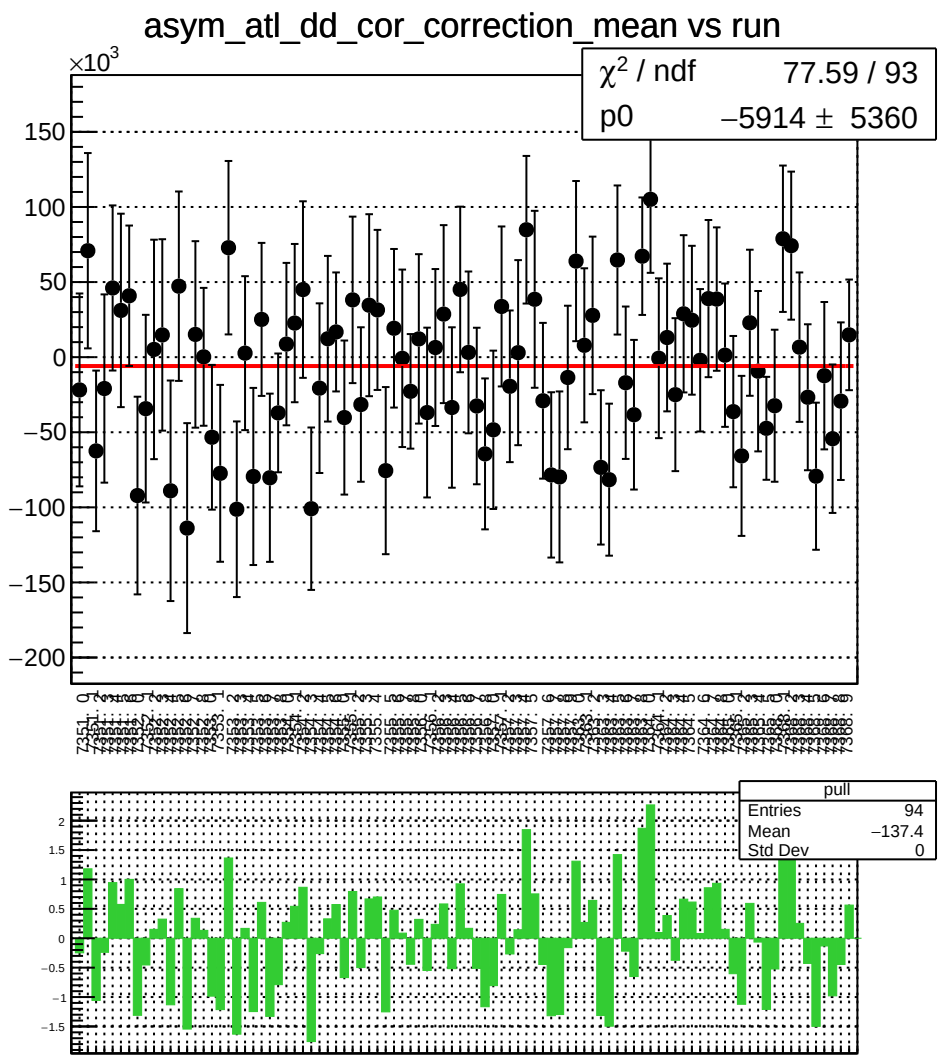

pull1D
Entries 94
Mean −0.01199
Std Dev 0.9085
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

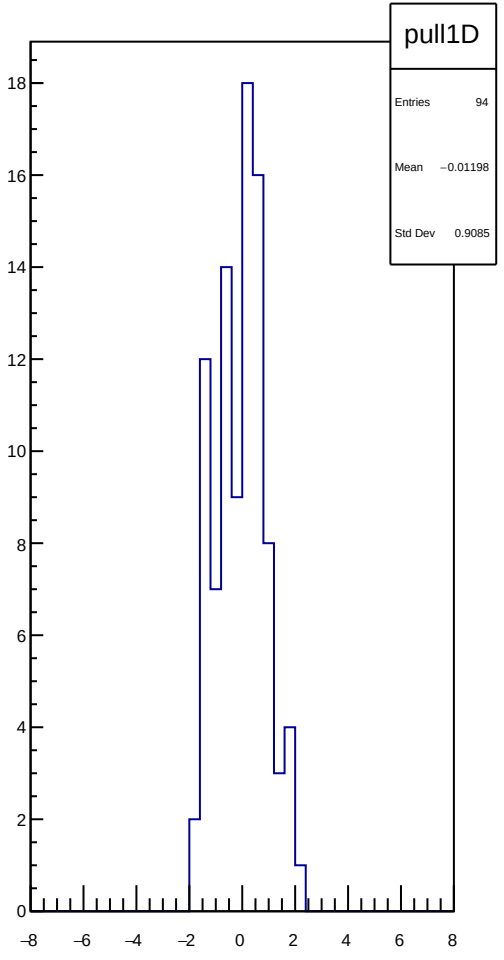

asym_atl_dd_reg_correction_rms vs run
χ² / ndf 1.511e+04 / 93
p0 5090 ± 3.79
7000
6500
6000
5500
5000
4500

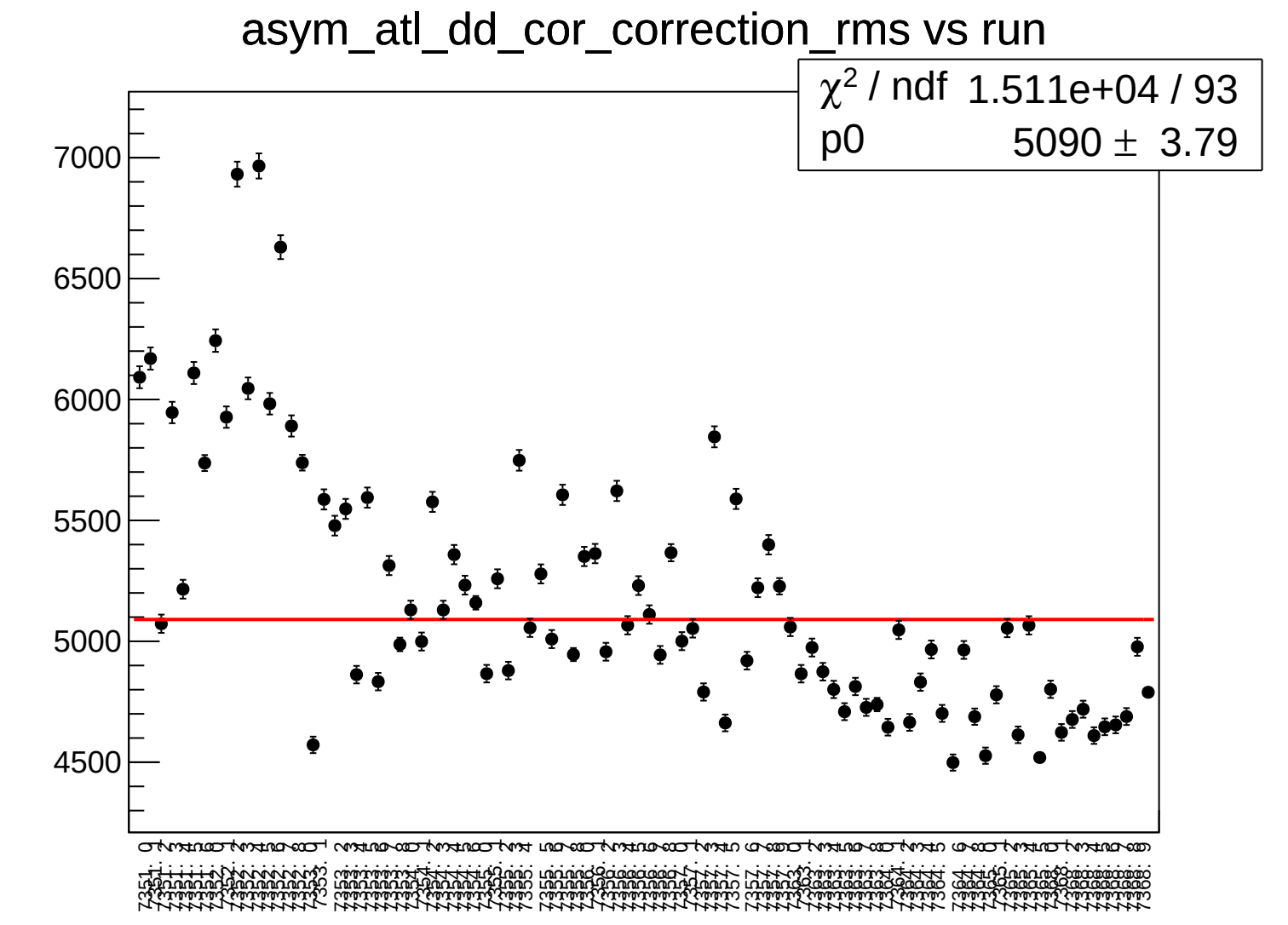

cor_asym_atl_dd_mean vs run
χ² / ndf 85.71 / 93
p0 1399 ± 1656
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −269.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

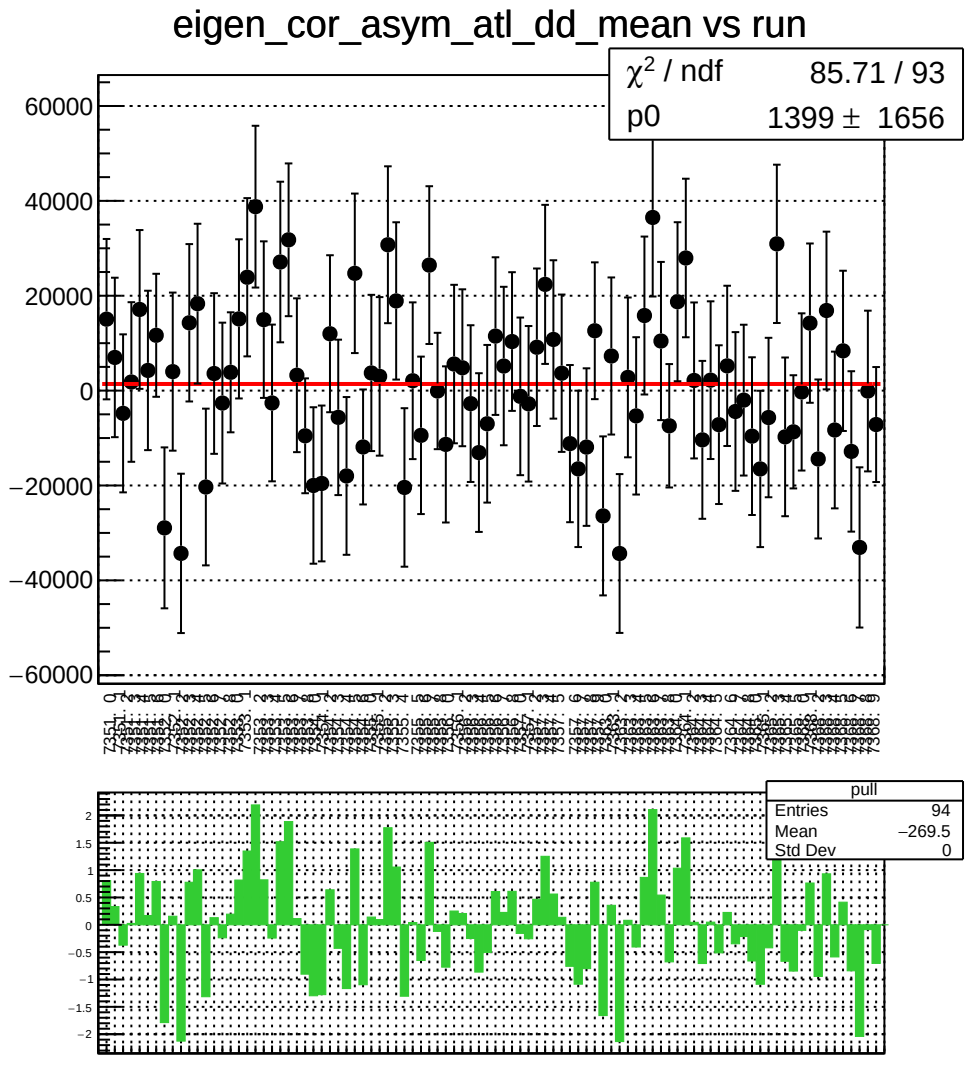

pull1D
Entries 94
Mean 0.01199
Std Dev 0.9548
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

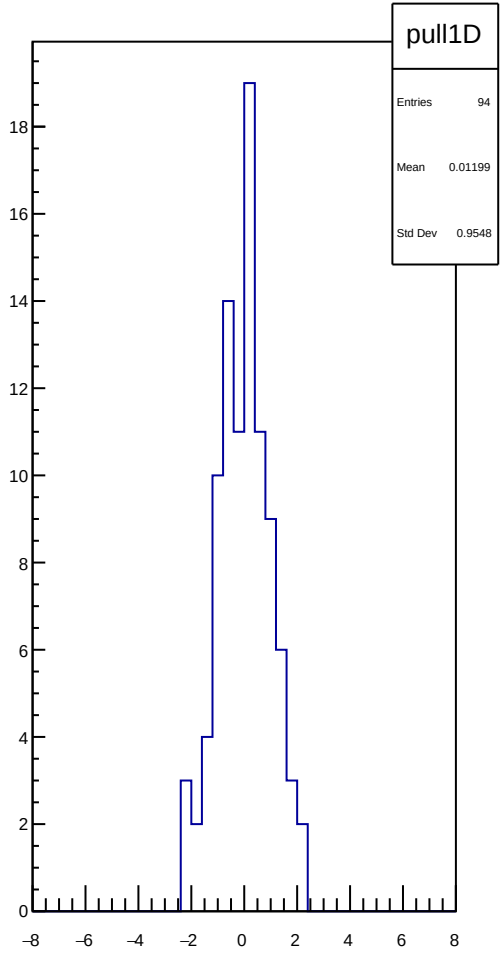

cor_asym_atl_dd_rms vs run
χ² / ndf 200 / 93
p0 1579 ± 1.171
1640
1620
1600
1580
1560
1540
1520

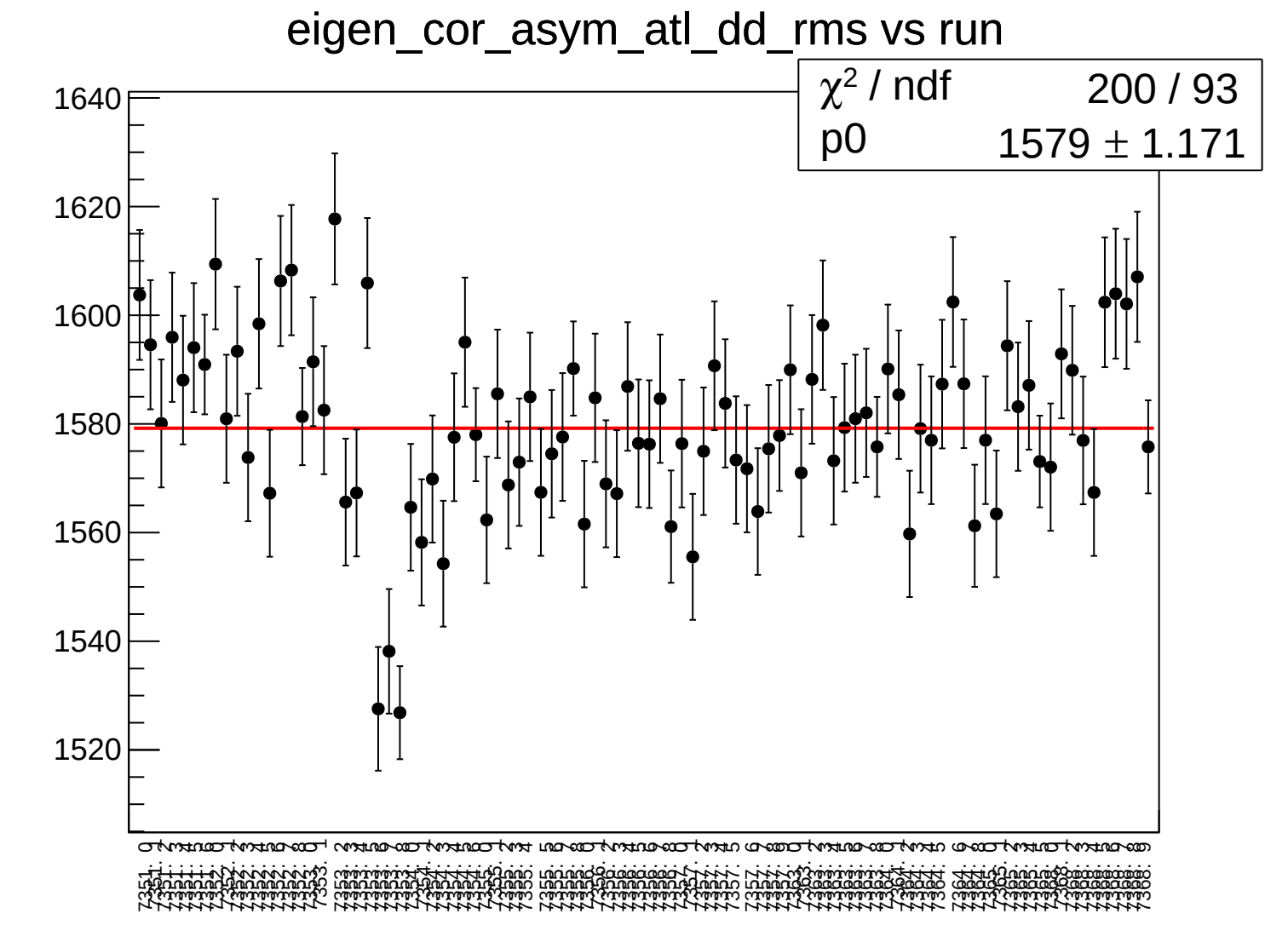

asym_atl_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 77.59 / 93
p0 −5914 ± 5360
150
100
50
0
−50
−100
−150
−200
pull
Entries 94
Mean −137.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

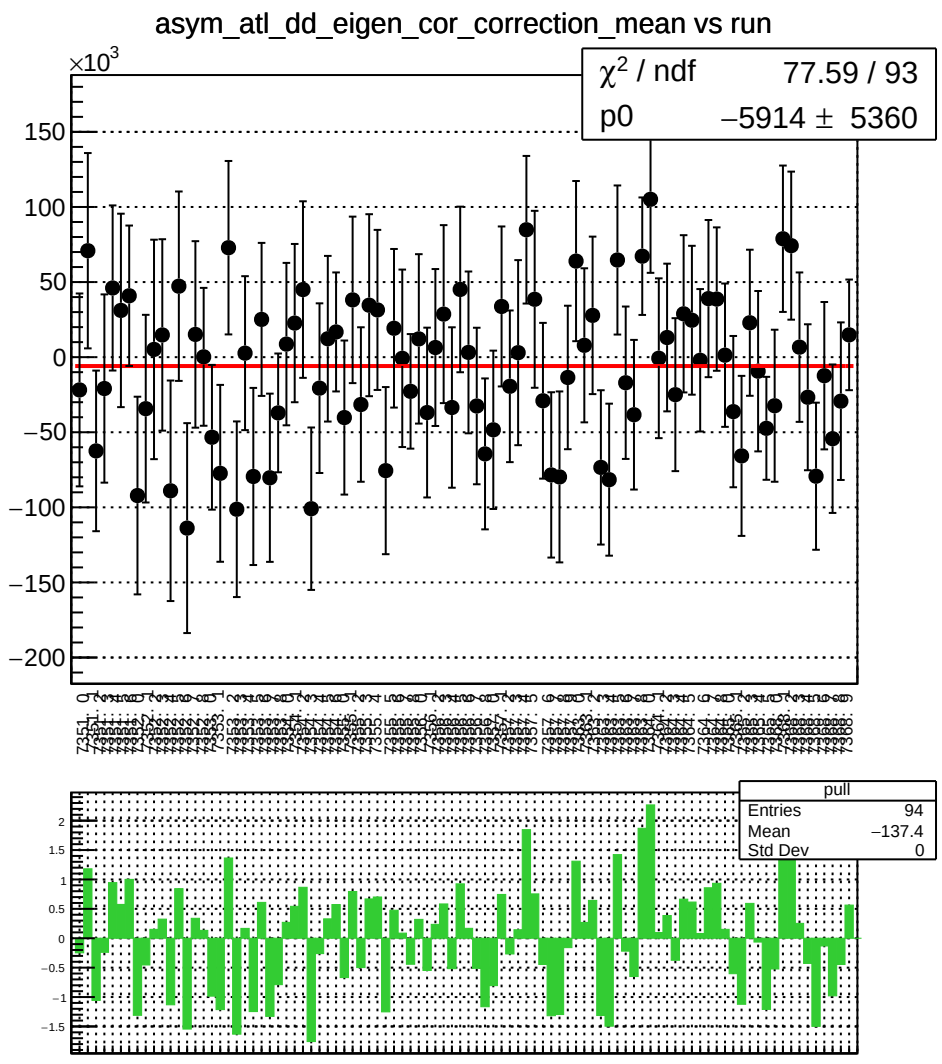

pull1D
Entries 94
Mean −0.01198
Std Dev 0.9085
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

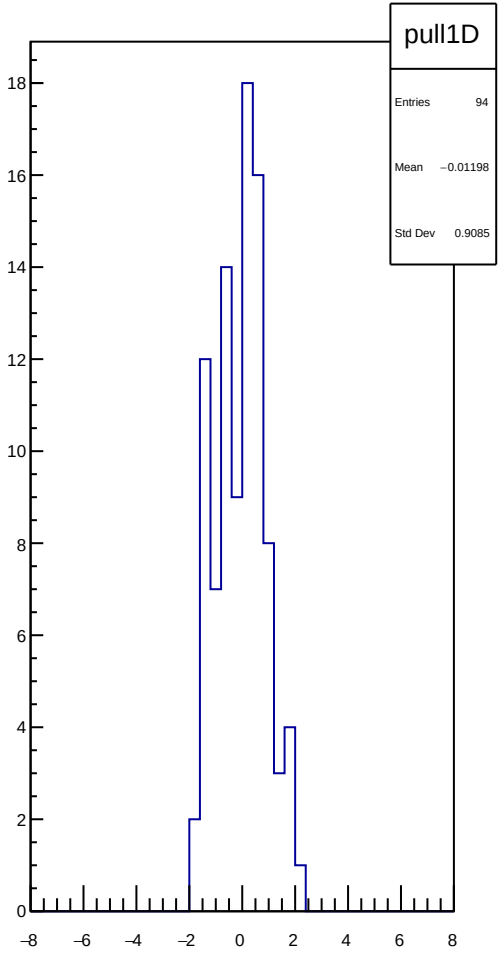

asym_atl_dd_cor_correction_rms vs run
χ² / ndf 1.511e+04 / 93
p0 5090 ± 3.79
7000
6500
6000
5500
5000
4500

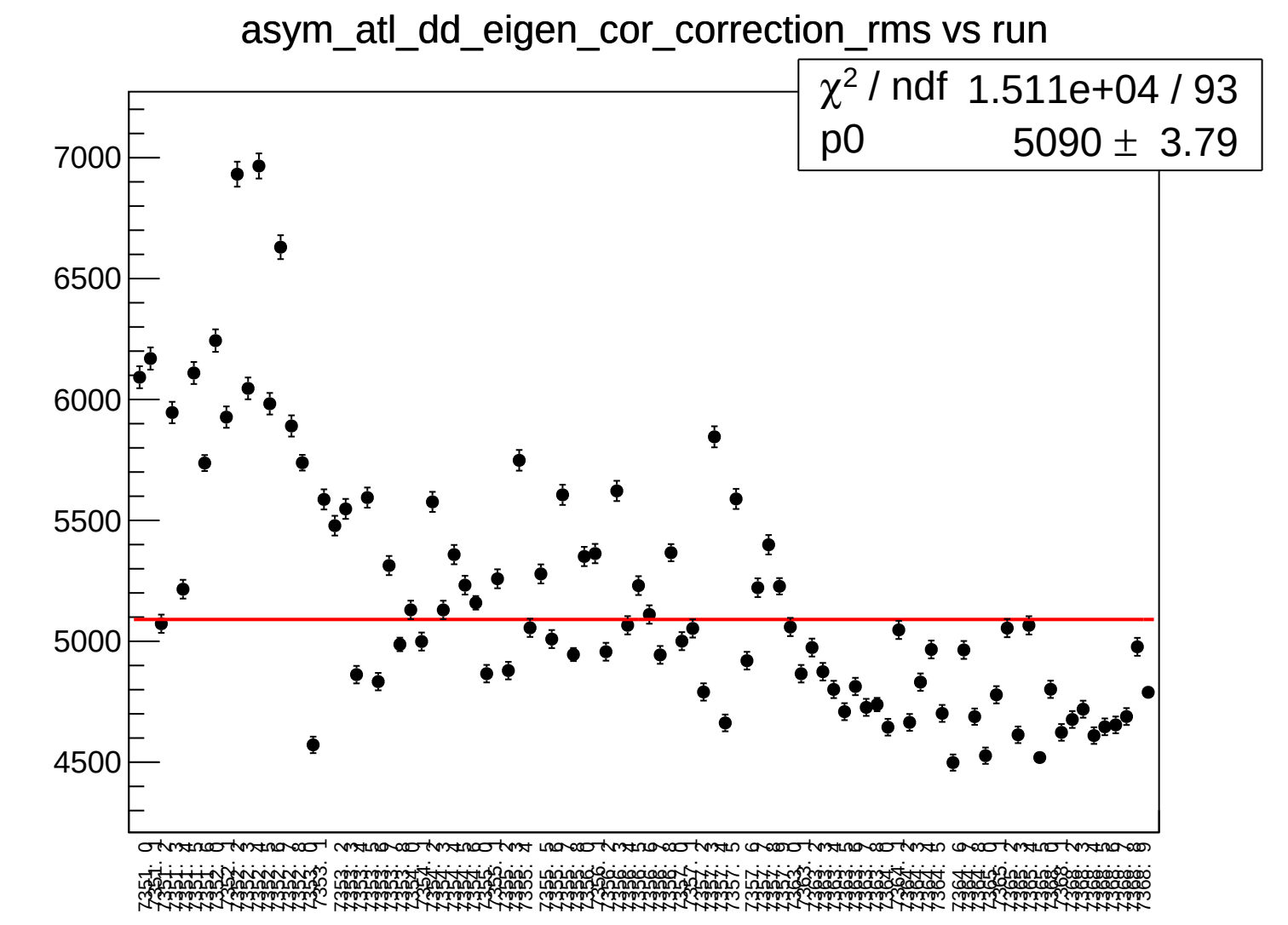

eigen_cor_asym_atl_dd_mean vs run
χ² / ndf 85.71 / 93
p0 1399 ± 1656
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −269.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

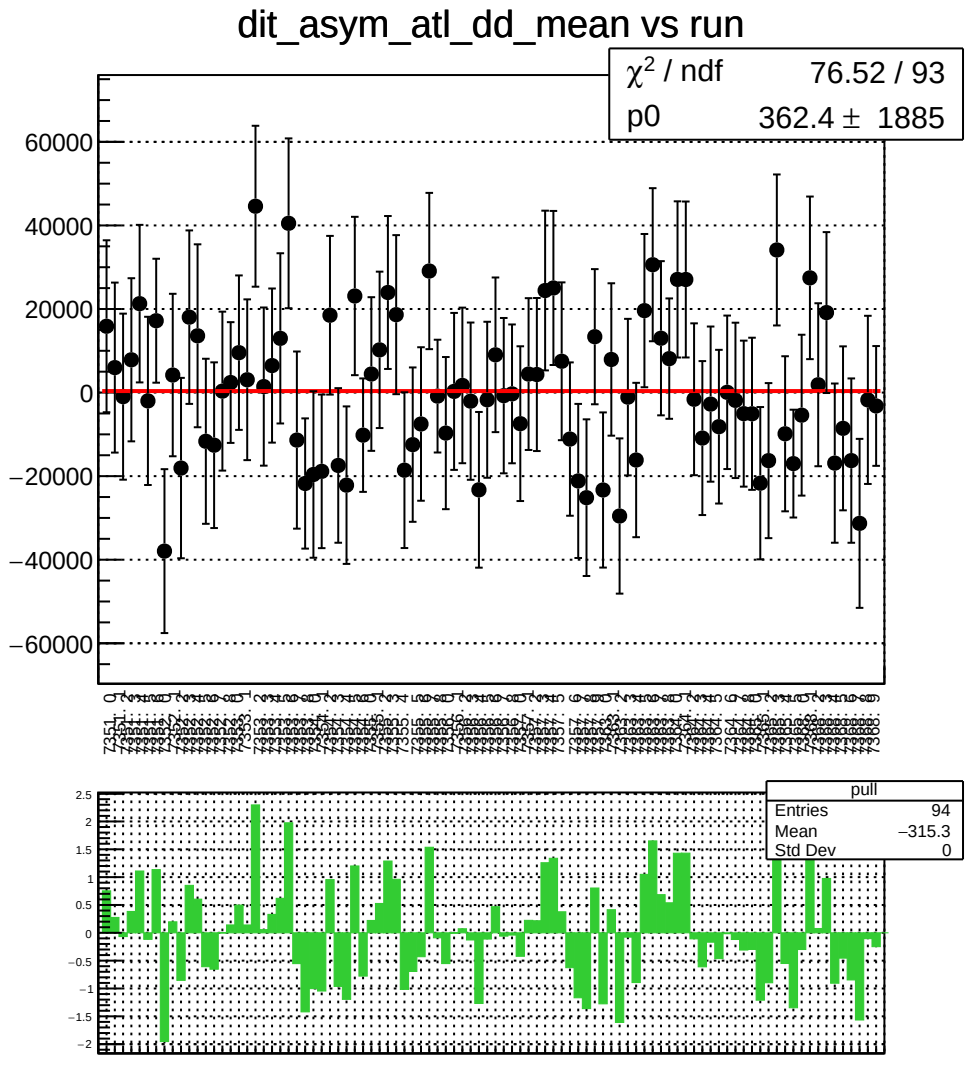

pull1D
Entries 94
Mean 0.01199
Std Dev 0.9548
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

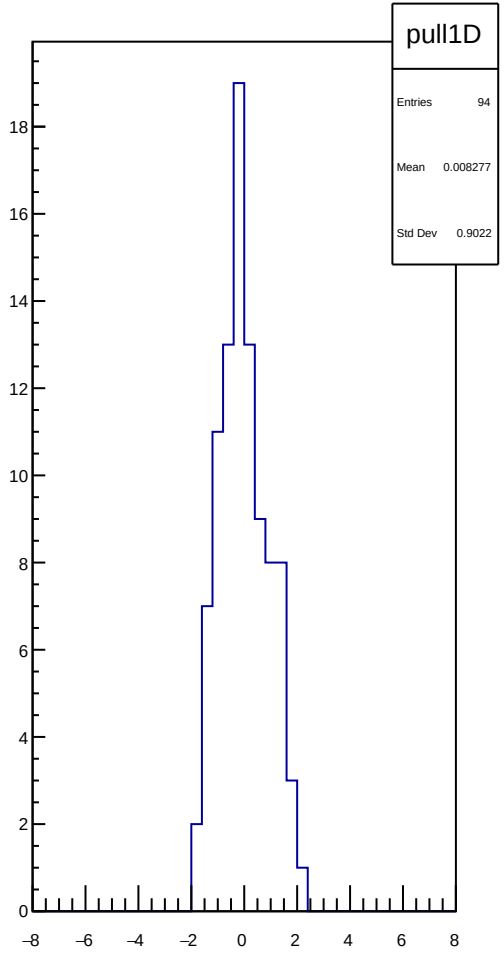

eigen_cor_asym_atl_dd_rms vs run
χ² / ndf 200 / 93
p0 1579 ± 1.171
1640
1620
1600
1580
1560
1540
1520

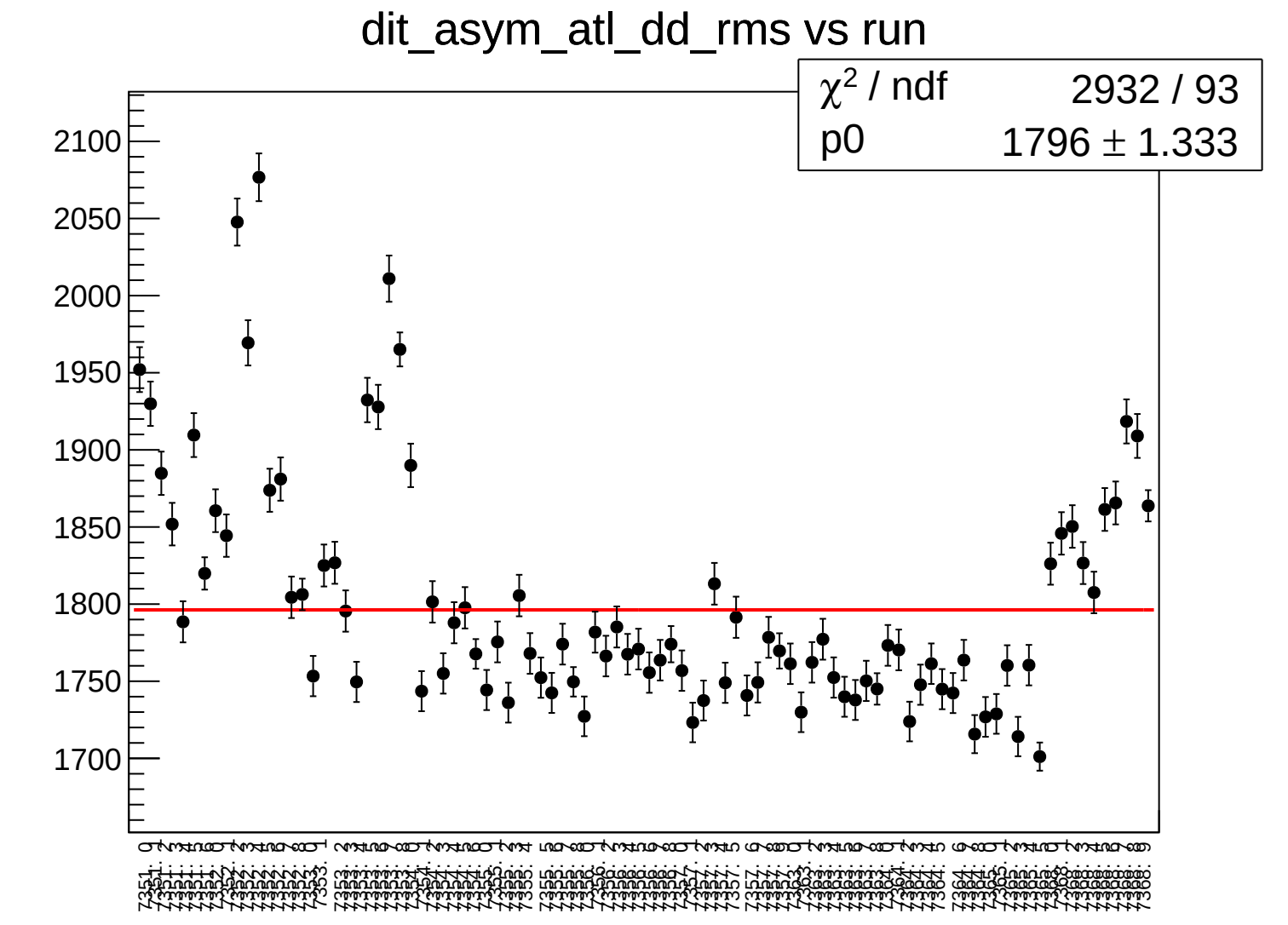

asym_atl_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 77.59 / 93
p0 −5914 ± 5360
150
100
50
0
−50
−100
−150
−200
pull
Entries 94
Mean −137.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

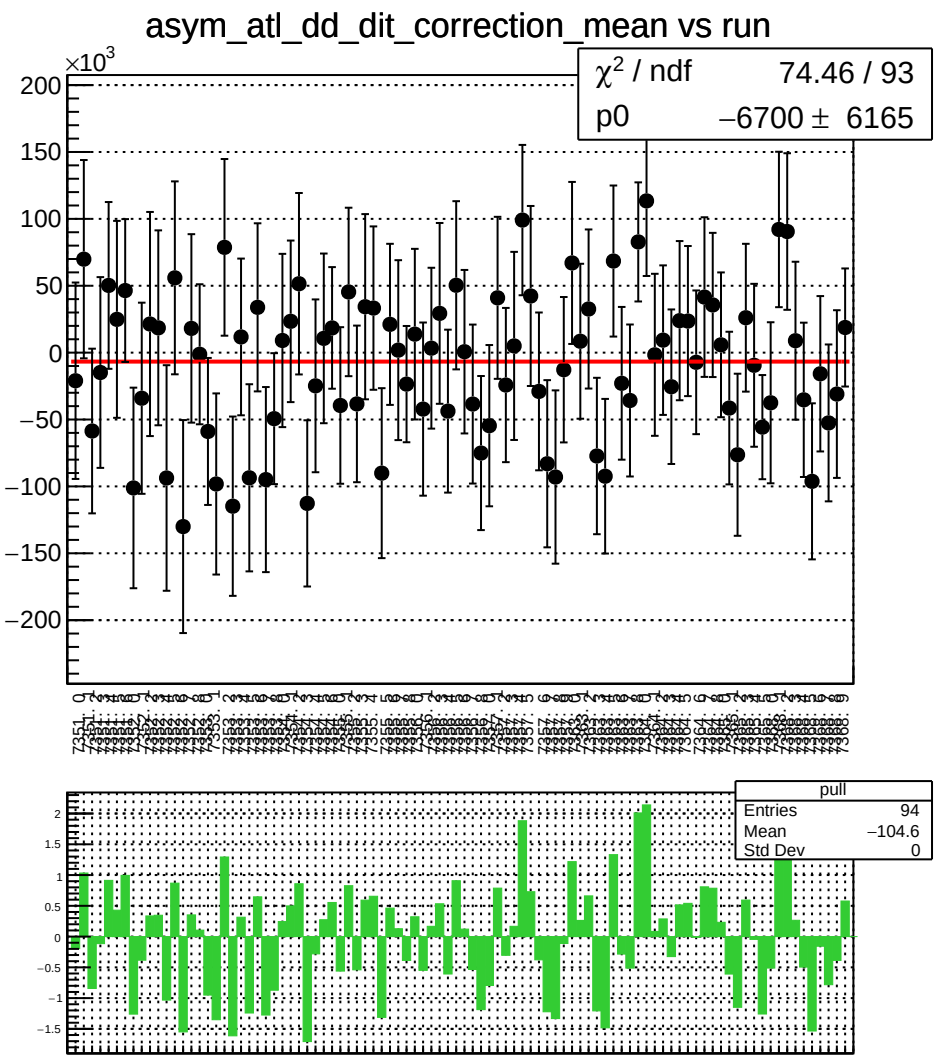

pull1D
Entries 94
Mean −0.01198
Std Dev 0.9085
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

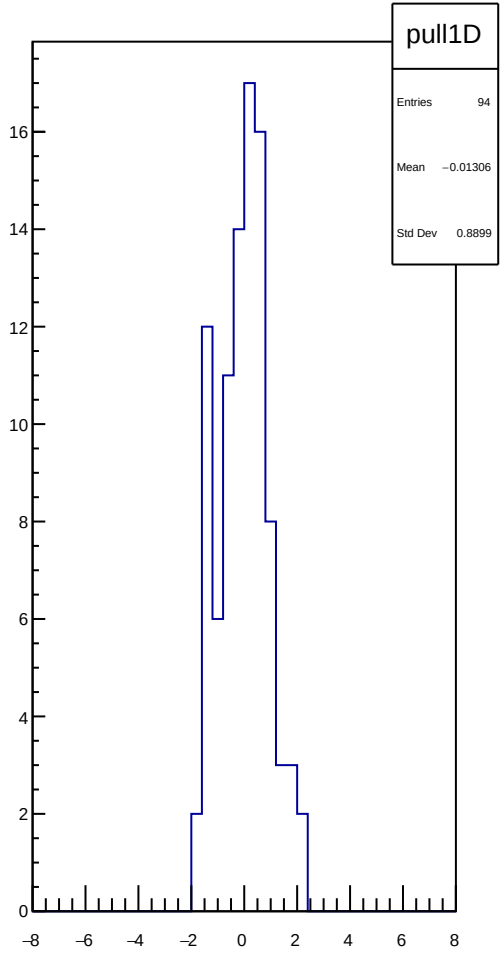

asym_atl_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.511e+04 / 93
p0 5090 ± 3.79
7000
6500
6000
5500
5000
4500


dit_asym_atl_dd_mean vs run
χ^2 / ndf 76.52 / 93
p0 362.4 ± 1885
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −315.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

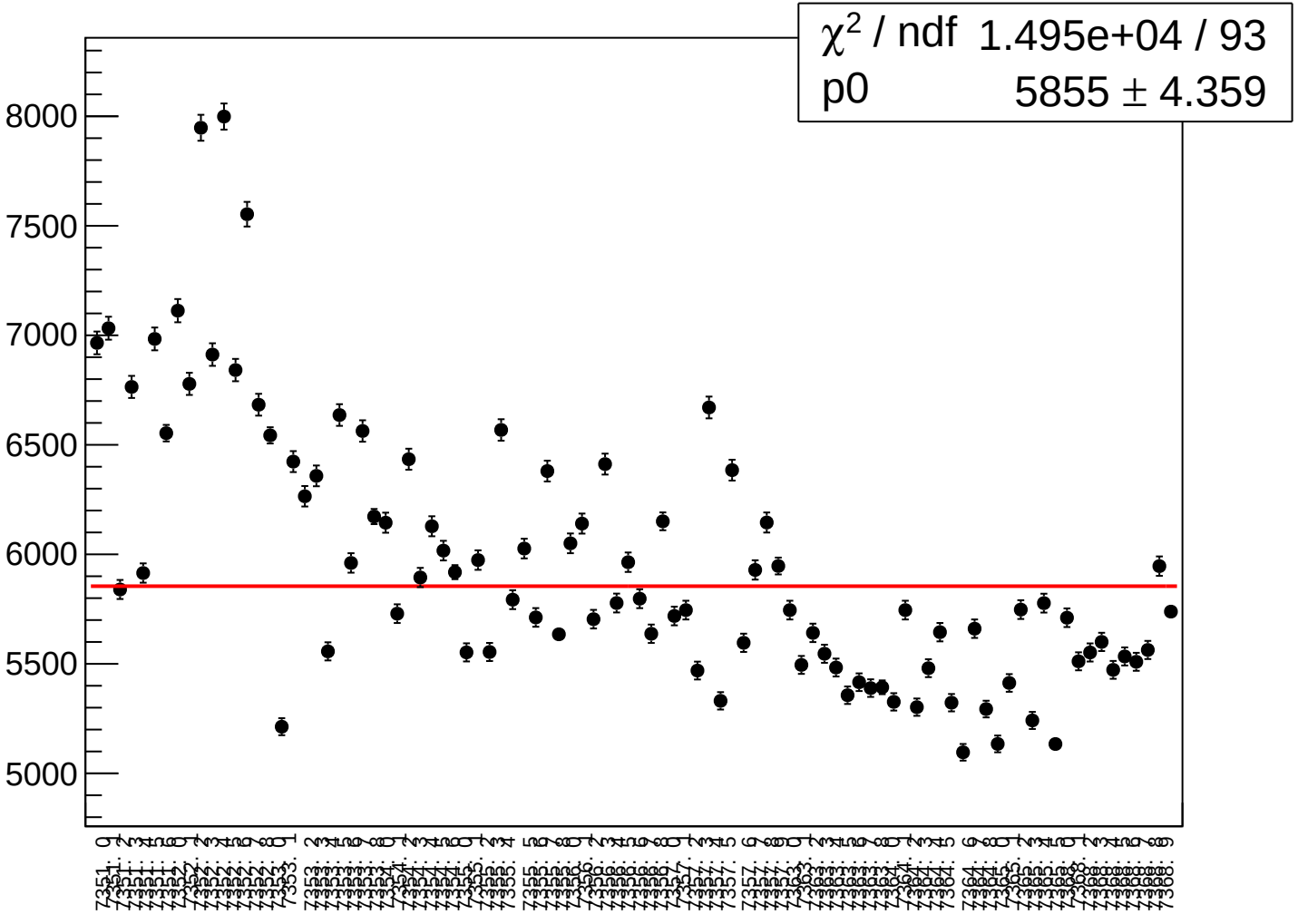

pull1D
Entries 94
Mean 0.008277
Std Dev 0.9022
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

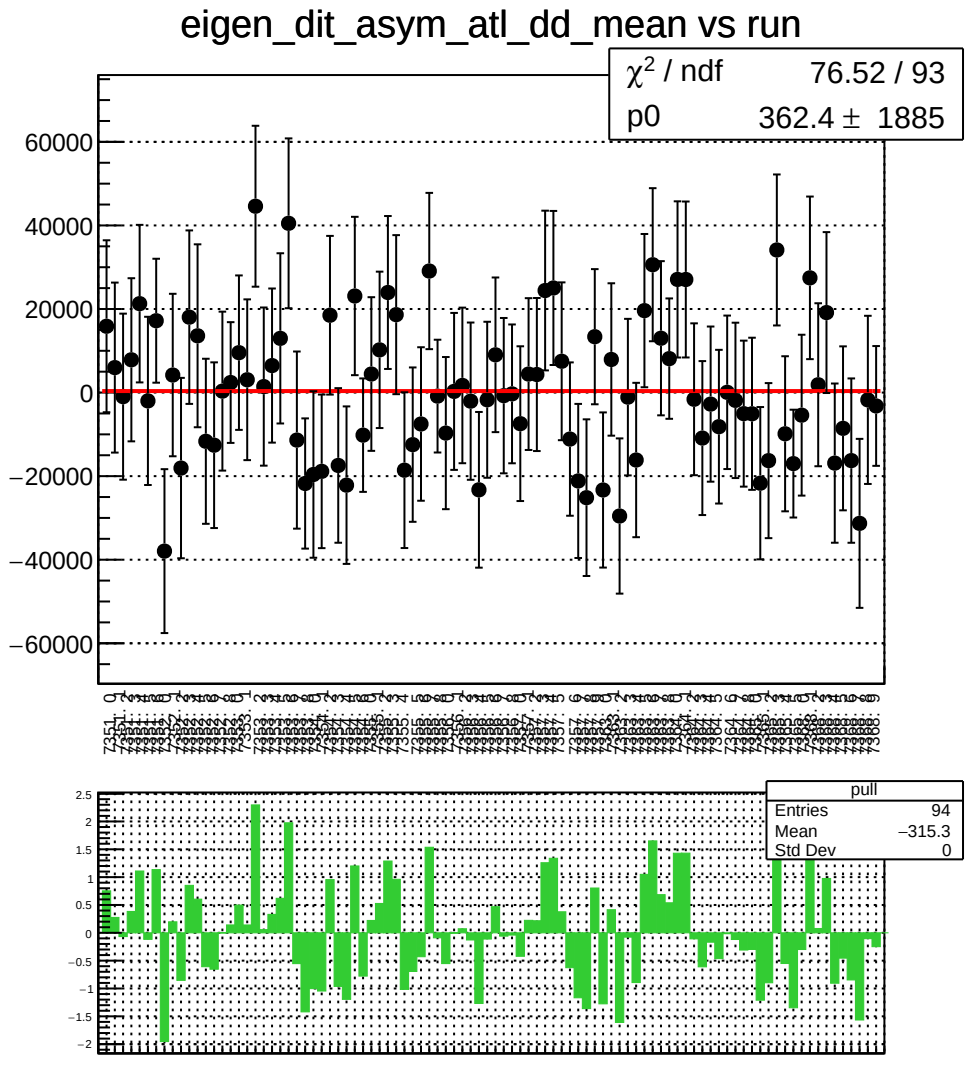

dit_asym_atl_dd_rms vs run
χ² / ndf 2932 / 93
p0 1796 ± 1.333
2100
2050
2000
1950
1900
1850
1800
1750
1700

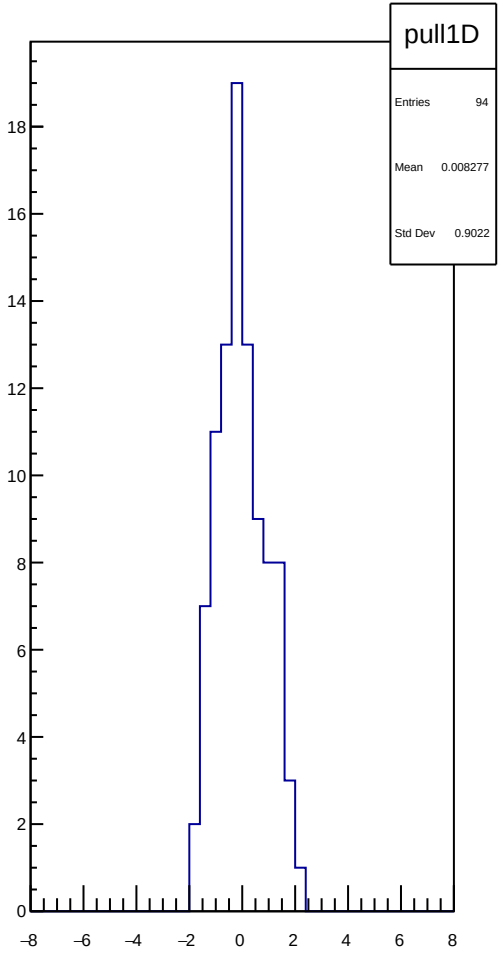

asym_atl_dd_dit_correction_mean vs run
×10^3
χ² / ndf 74.46 / 93
p0 −6700 ± 6165
pull
Entries 94
Mean −104.6
Std Dev 0

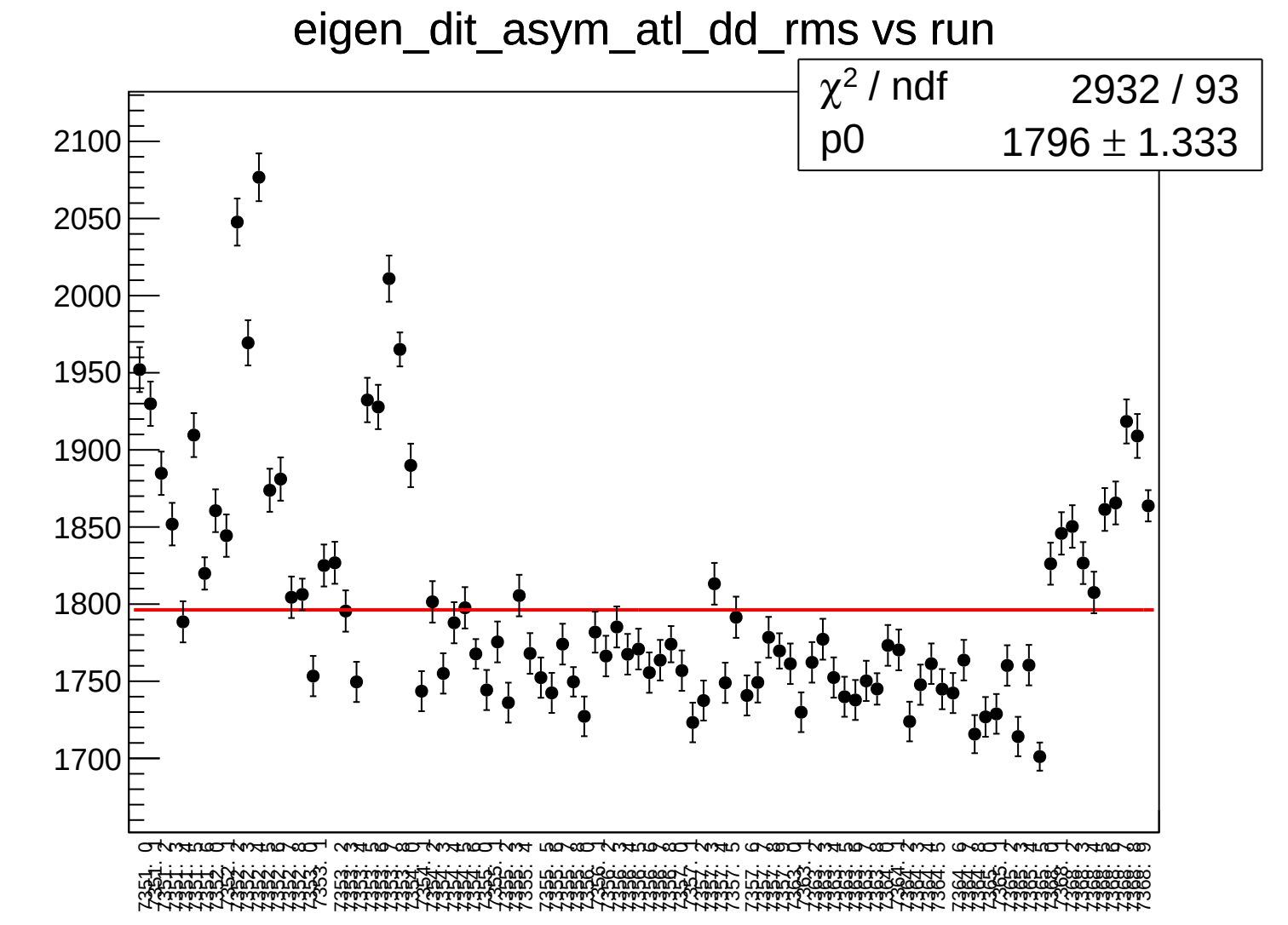

pull1D
Entries 94
Mean −0.01306
Std Dev 0.8899

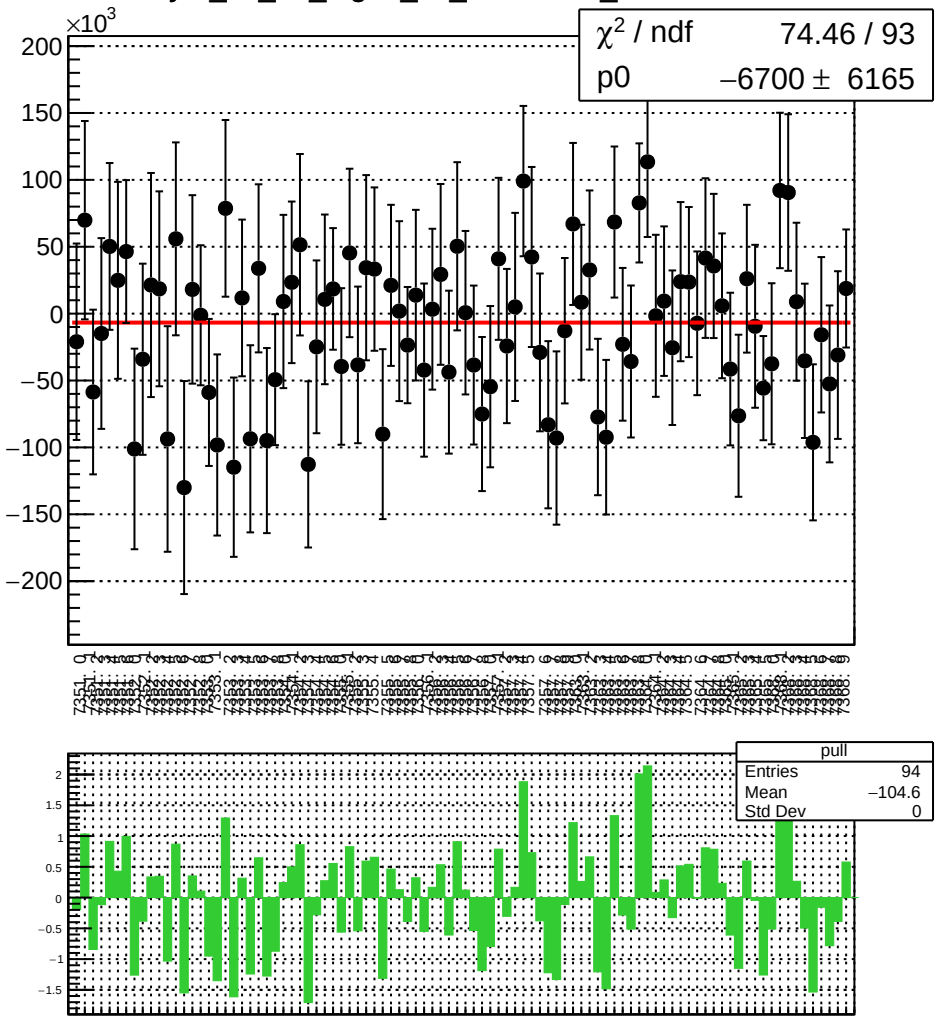
asym_atl_dd_dit_correction_rms vs run

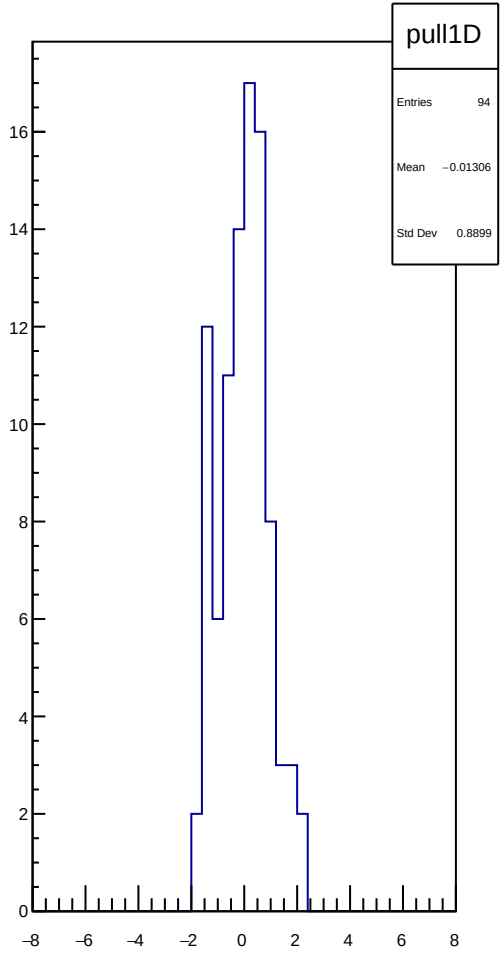


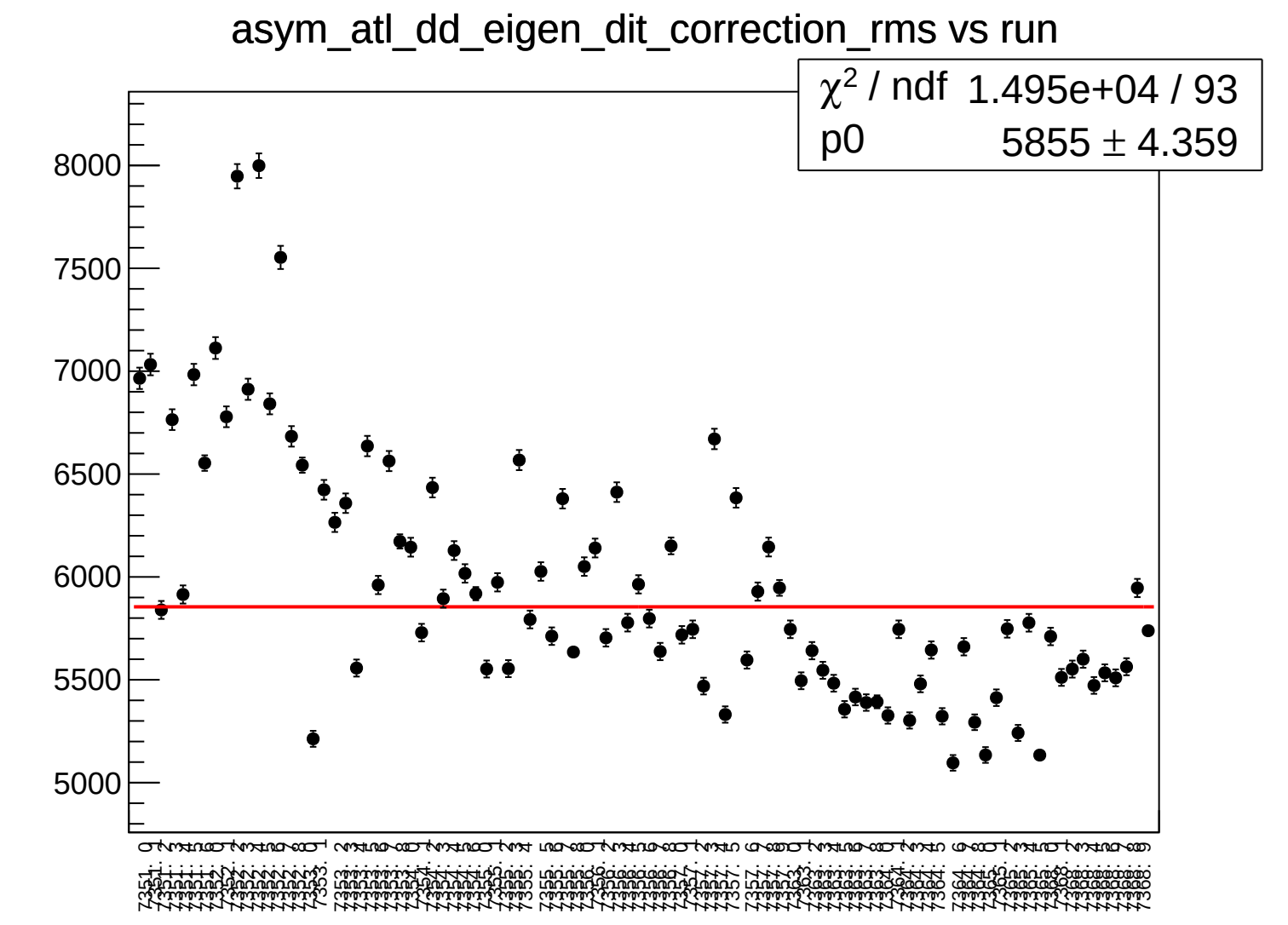

eigen_dit_asym_atl_dd_mean vs run
χ² / ndf 76.52 / 93
p0 362.4 ± 1885
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −315.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

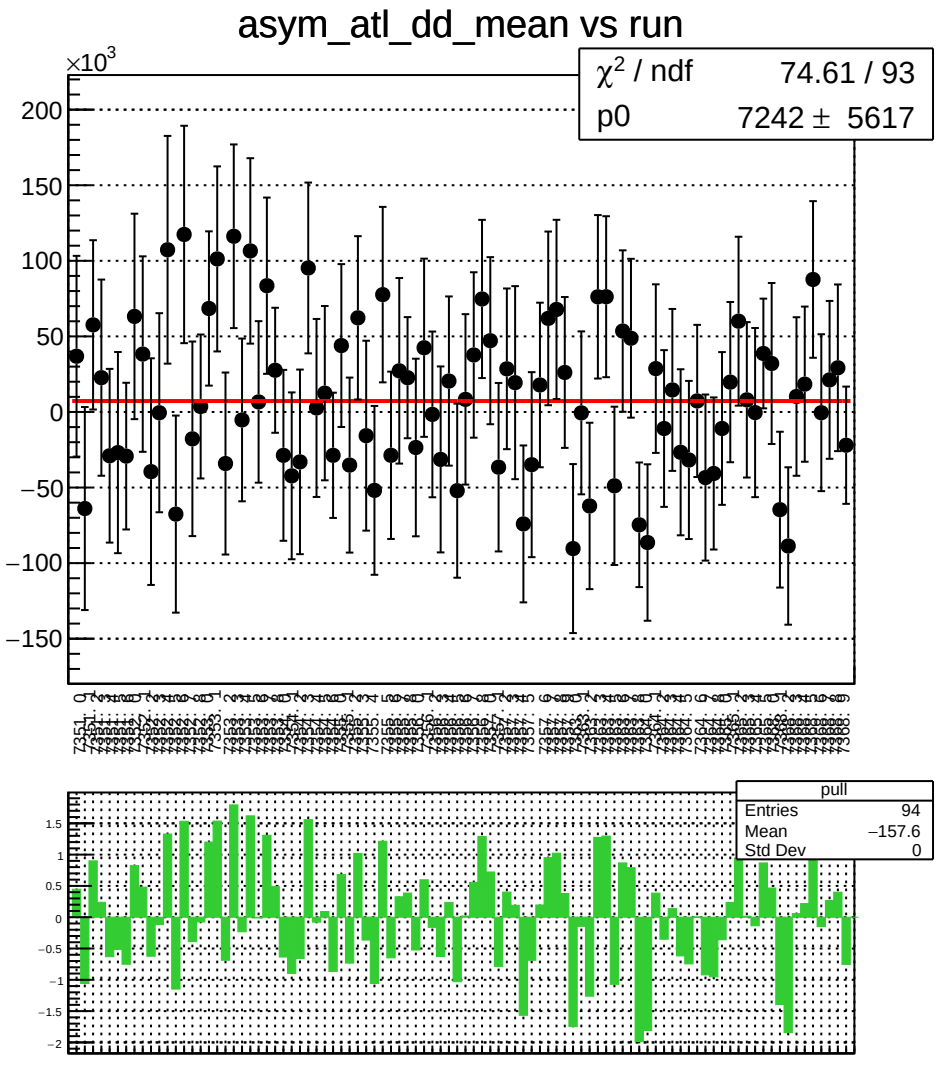

pull1D
Entries 94
Mean 0.008277
Std Dev 0.9022
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

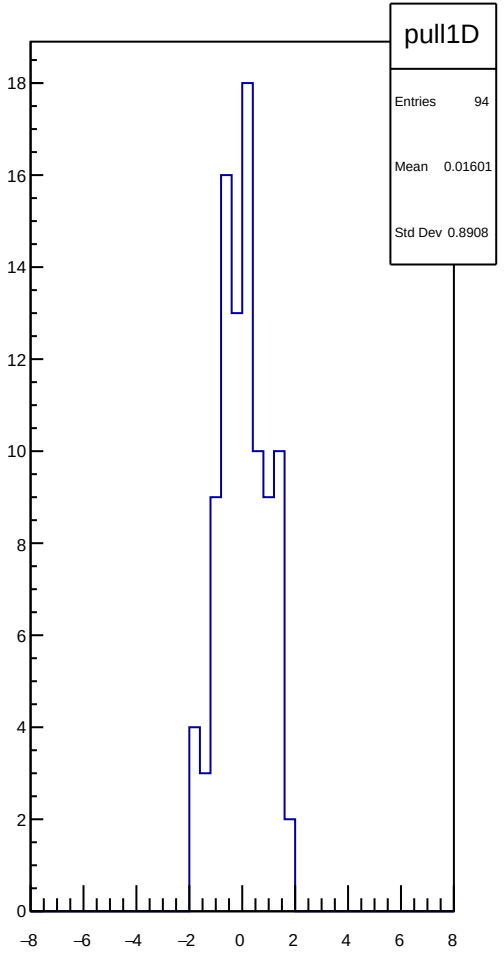

eigen_dit_asym_atl_dd_rms vs run
χ² / ndf 2932 / 93
p0 1796 ± 1.333
2100
2050
2000
1950
1900
1850
1800
1750
1700

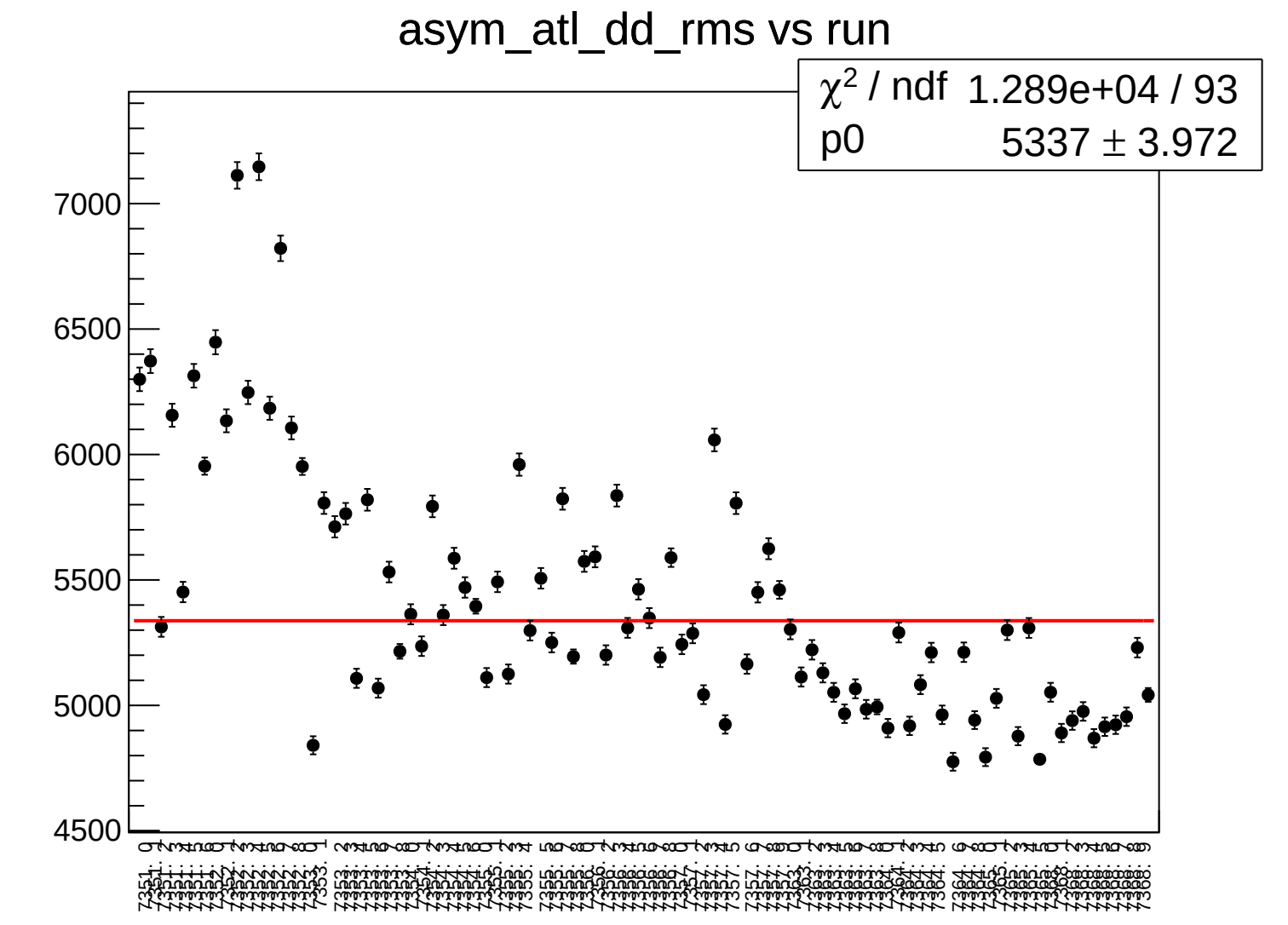

asym_atl_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 74.46 / 93
p0 −6700 ± 6165
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 94
Mean −104.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

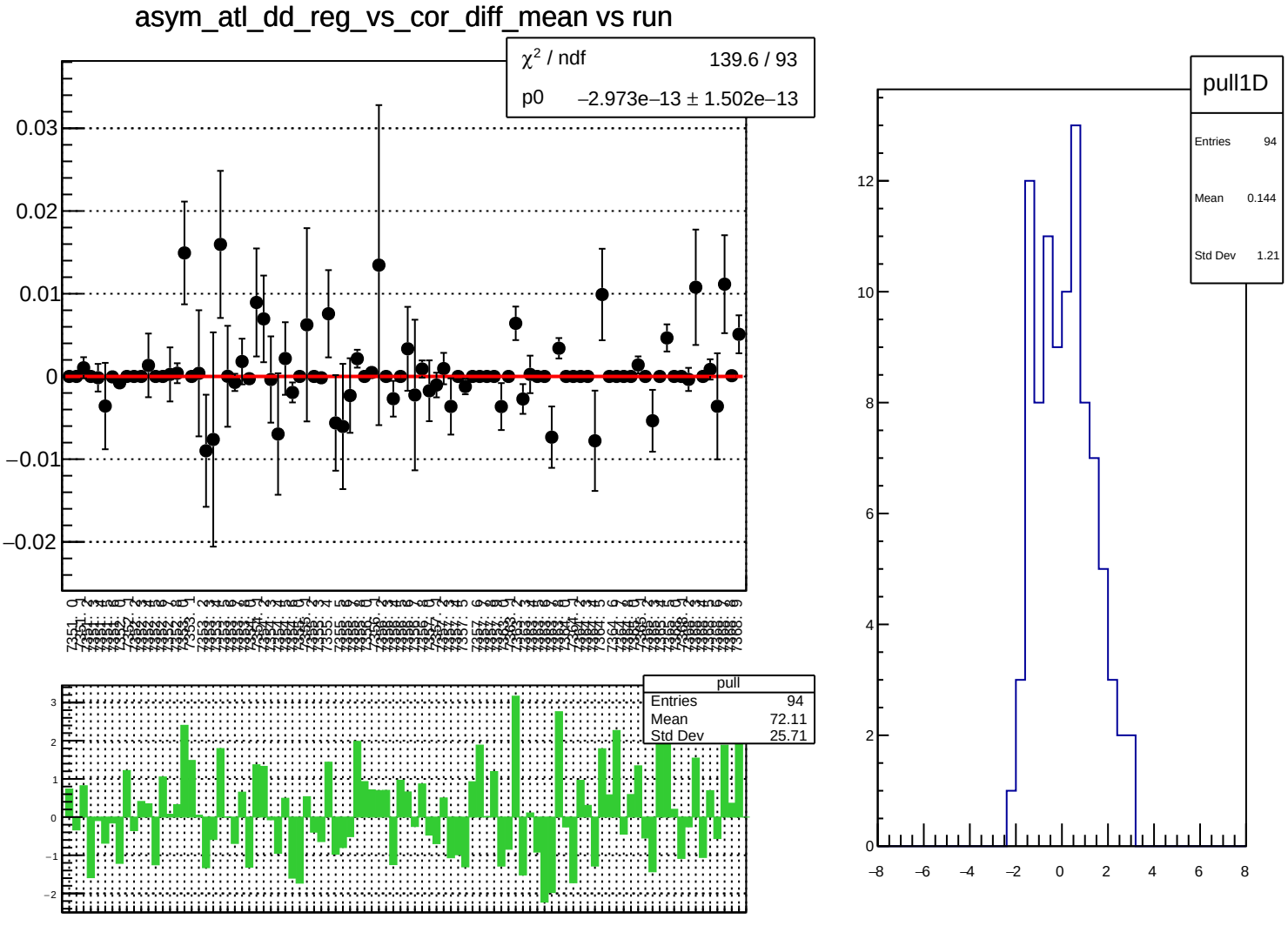

pull1D
Entries 94
Mean −0.01306
Std Dev 0.8899
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

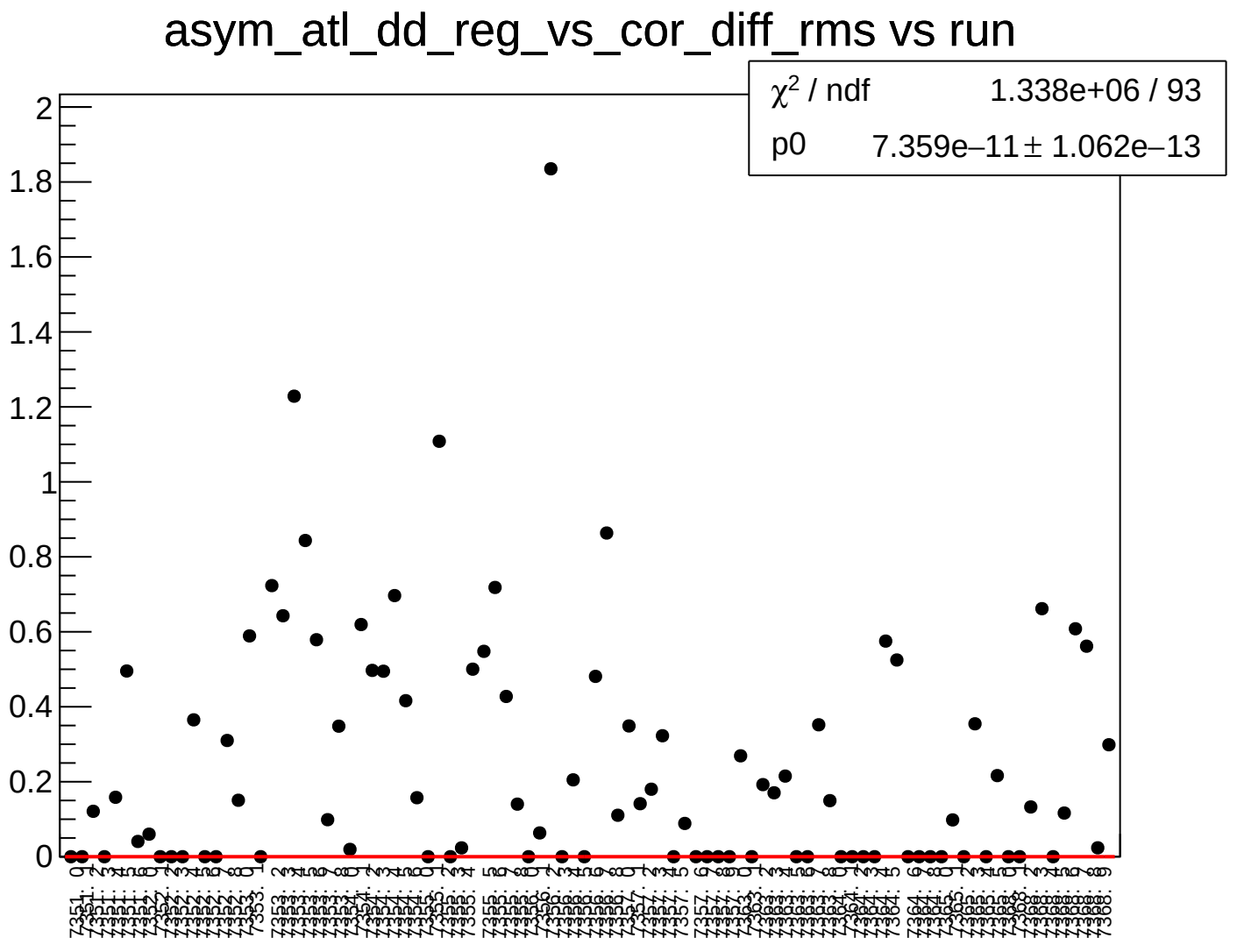

asym_atl_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.495e+04 / 93
p0 5855 ± 4.359
8000
7500
7000
6500
6000
5500
5000

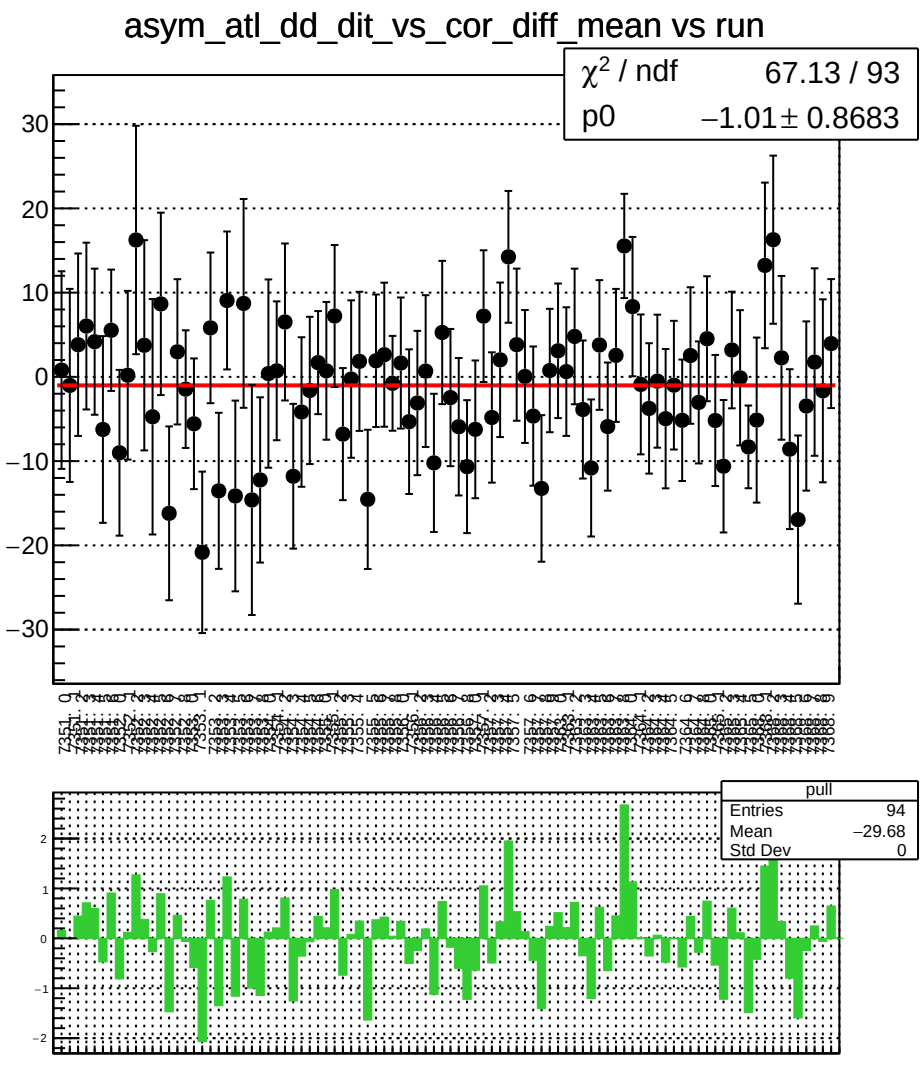

asym_atl_dd_mean vs run
×10^3
χ^2 / ndf 74.61 / 93
p0 7242 ± 5617
200
150
100
50
0
−50
−100
−150
pull
Entries 94
Mean −157.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

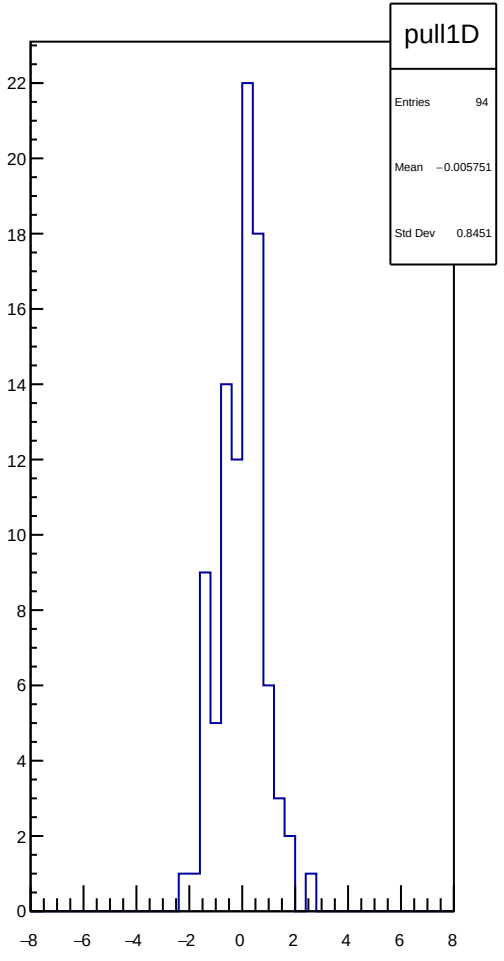

pull1D
Entries 94
Mean 0.01601
Std Dev 0.8908
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

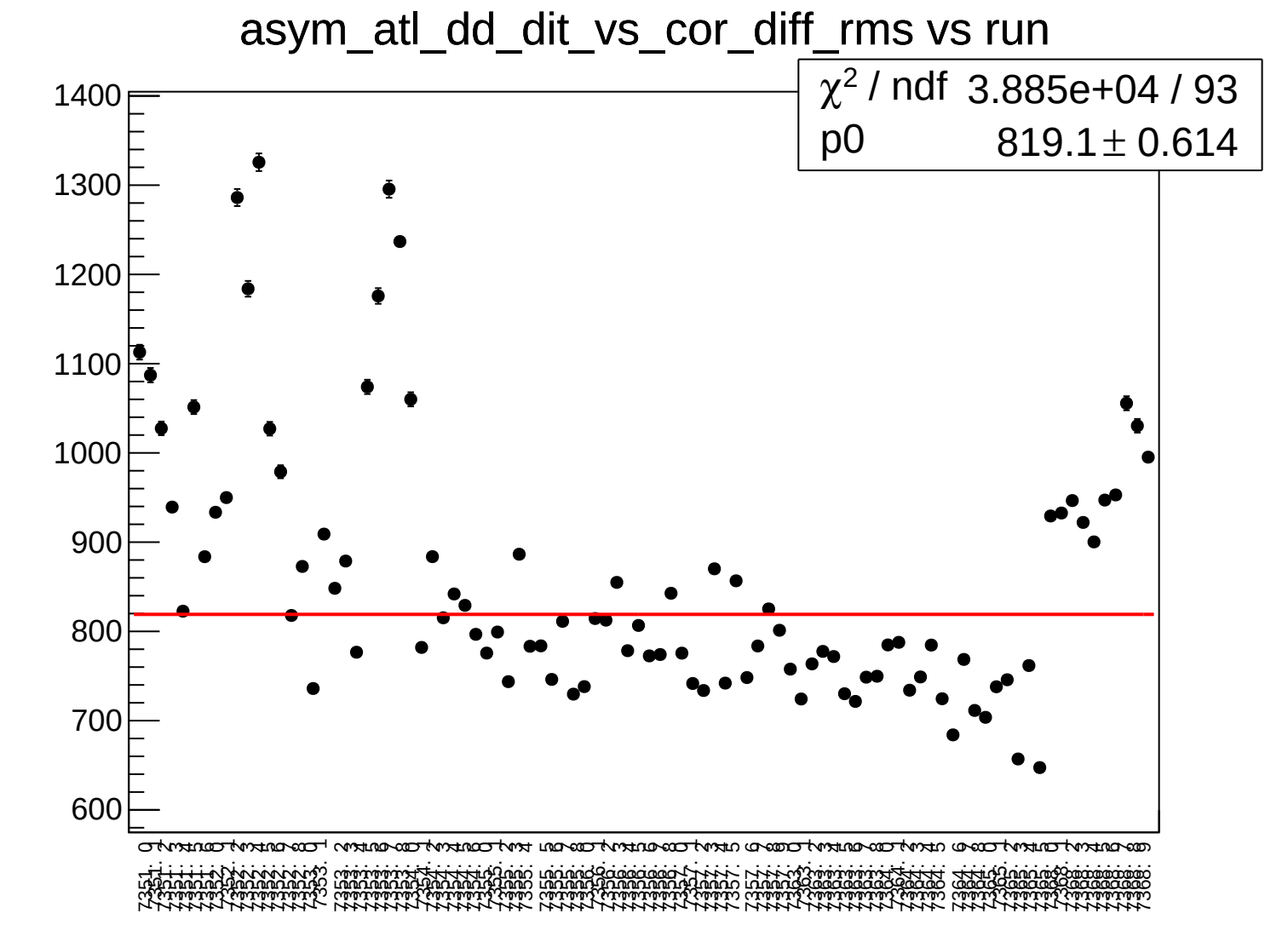

asym_atl_dd_rms vs run
χ^2 / ndf 1.289e+04 / 93
p0 5337 ± 3.972
7000
6500
6000
5500
5000
4500

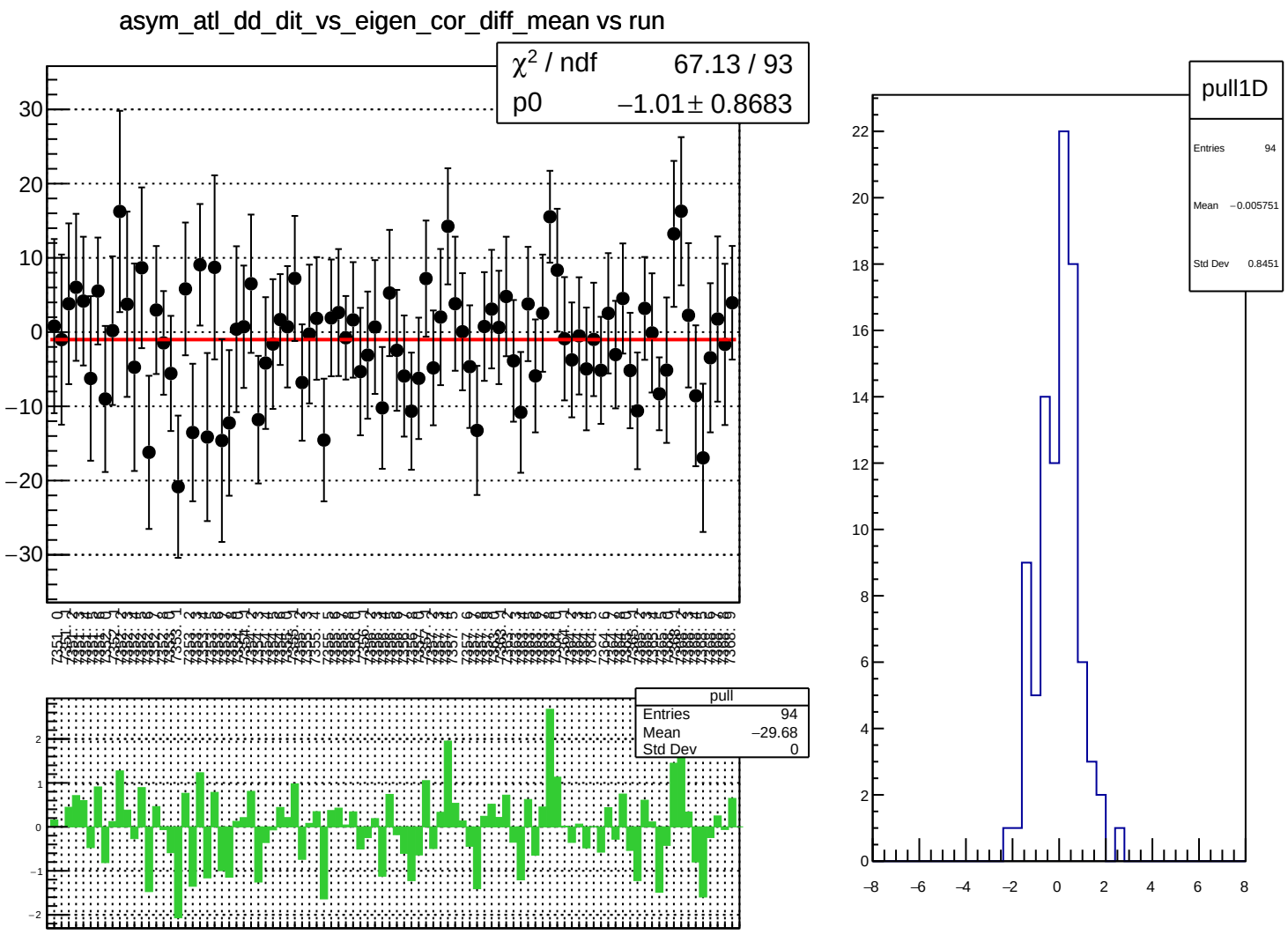

asym_atl_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 139.6 / 93
p0 −2.973e−13 ± 1.502e−13
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 94
Mean 72.11
Std Dev 25.71
3
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.144
Std Dev 1.21
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

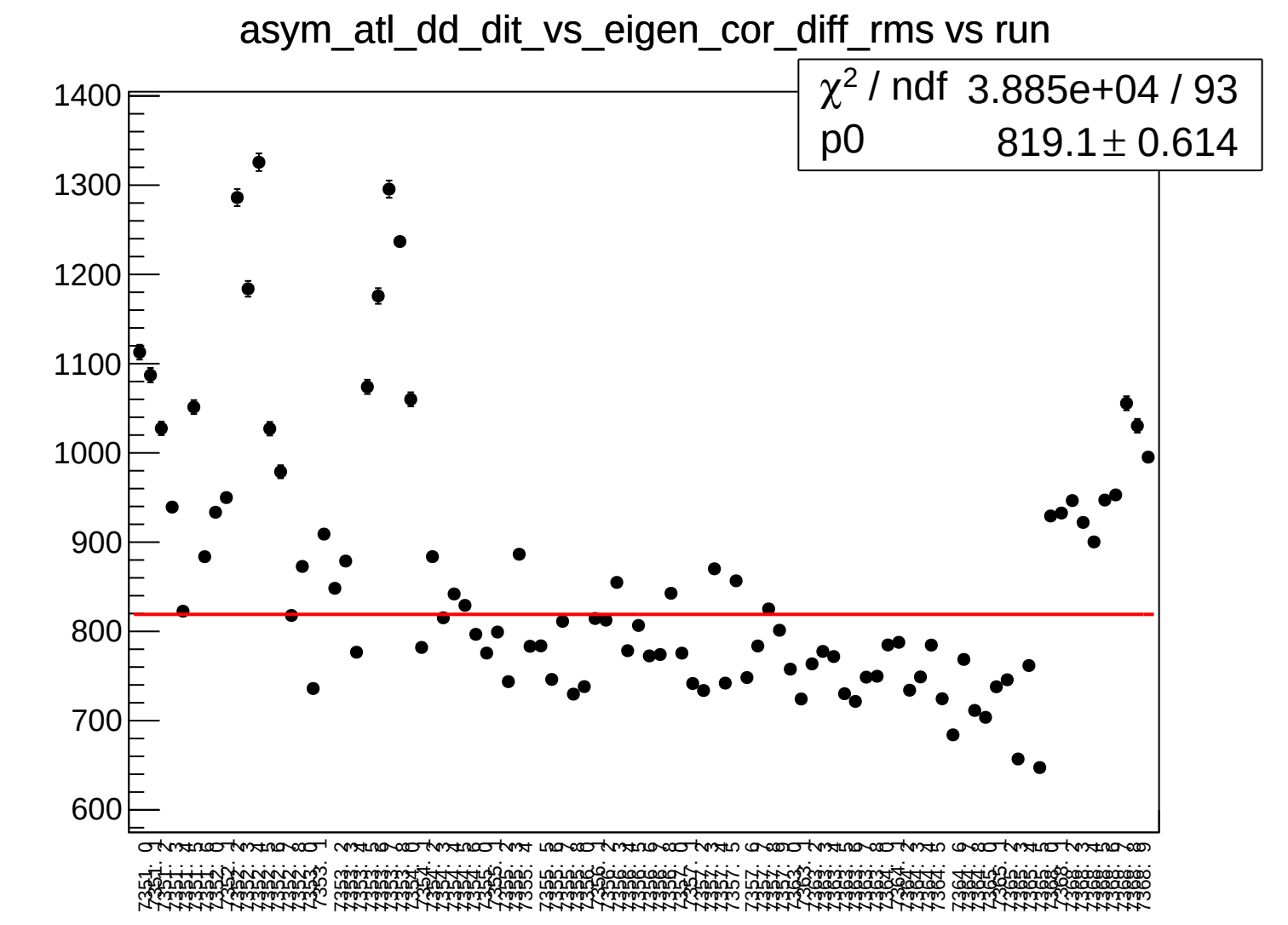

asym_atl_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.338e+06 / 93
p0 7.359e−11 ± 1.062e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

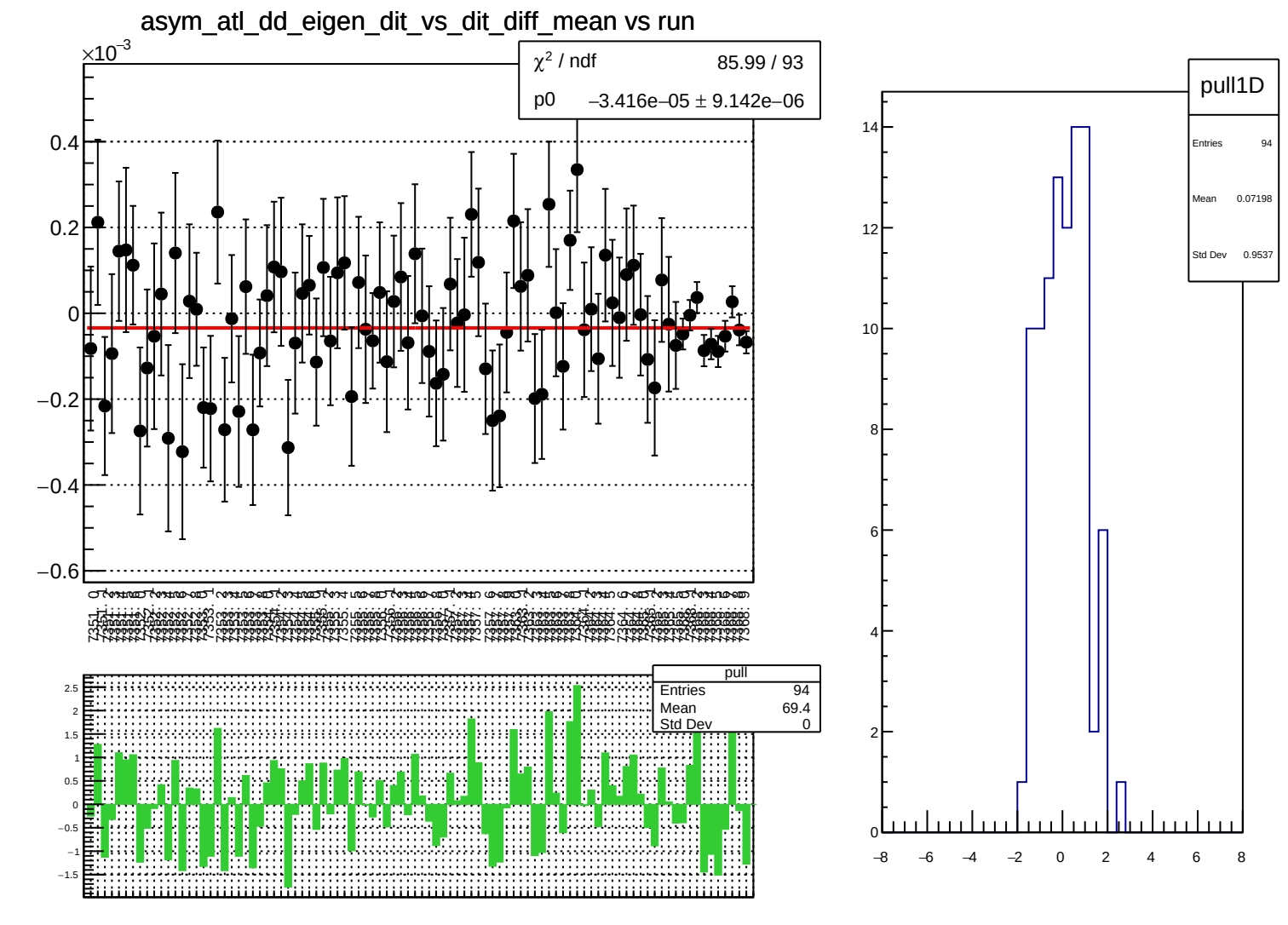

asym_atl_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 67.13 / 93
p0 −1.01 ± 0.8683
pull
Entries 94
Mean −29.68
Std Dev 0

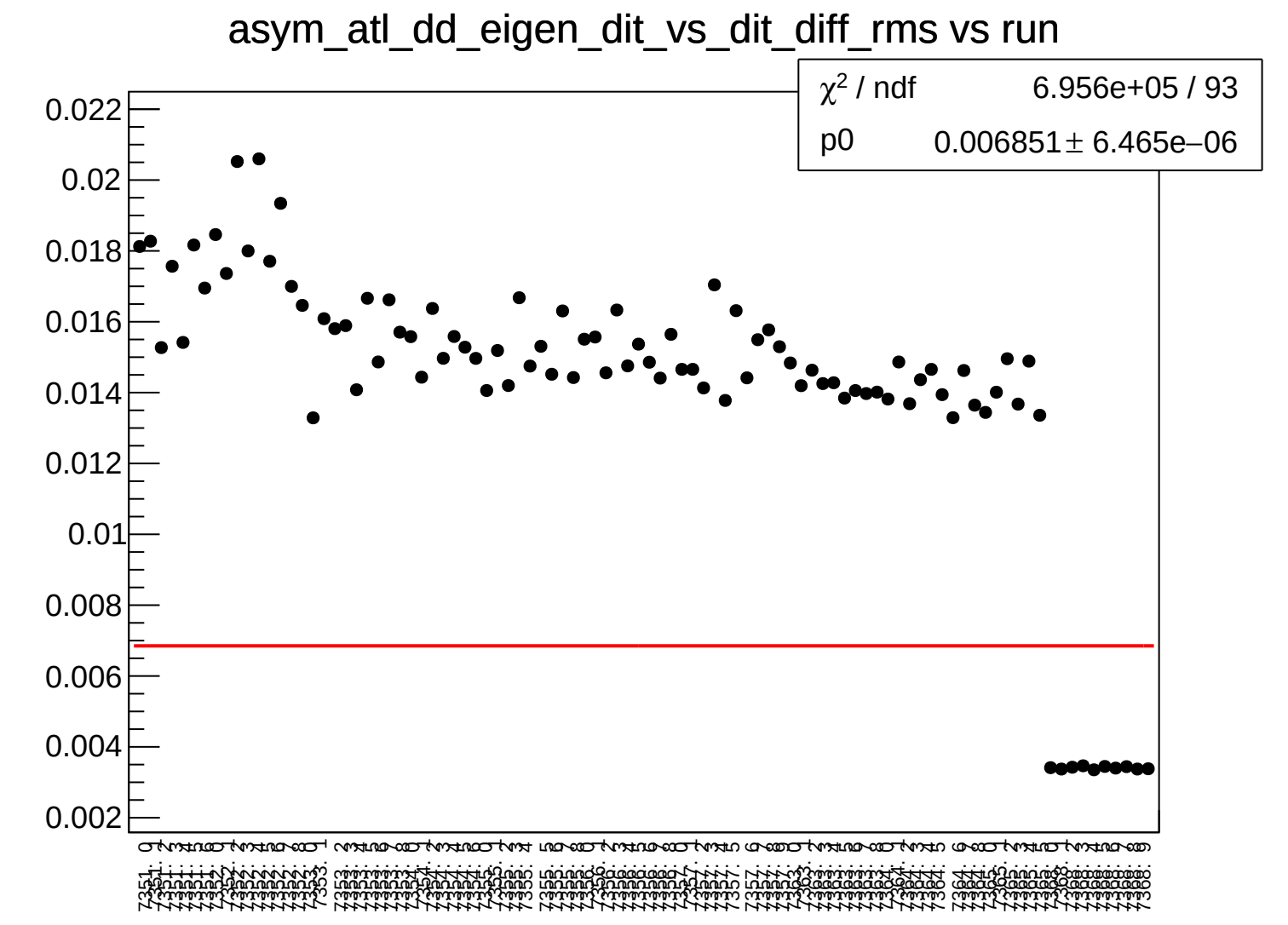

pull1D
Entries 94
Mean −0.005751
Std Dev 0.8451

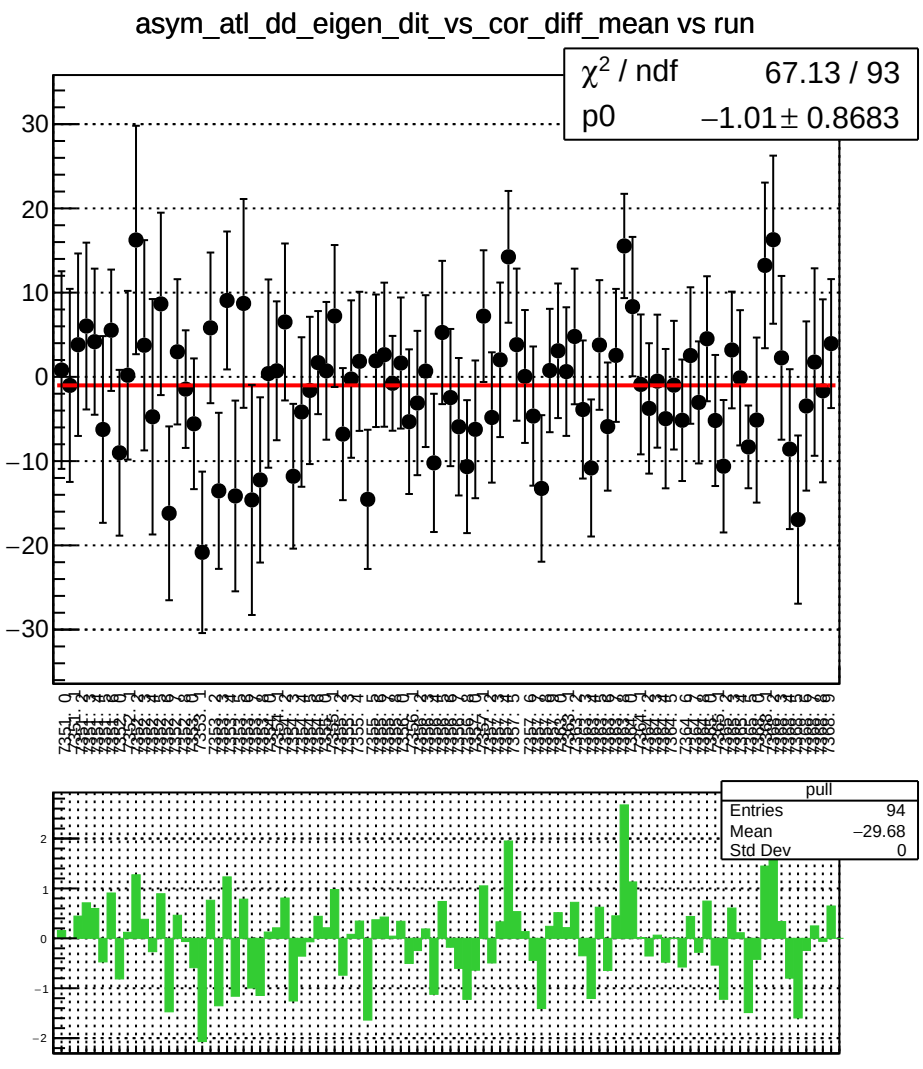

asym_atl_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.885e+04 / 93
p0 819.1 ± 0.614
1400
1300
1200
1100
1000
900
800
700
600

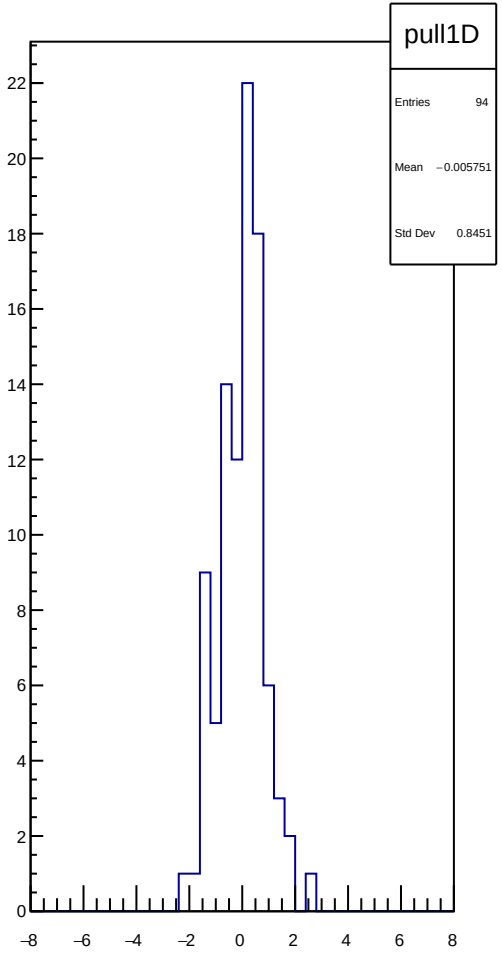

asym_atl_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.13 / 93
p0 −1.01 ± 0.8683
pull
Entries 94
Mean −29.68
Std Dev 0
pull1D
Entries 94
Mean −0.005751
Std Dev 0.8451

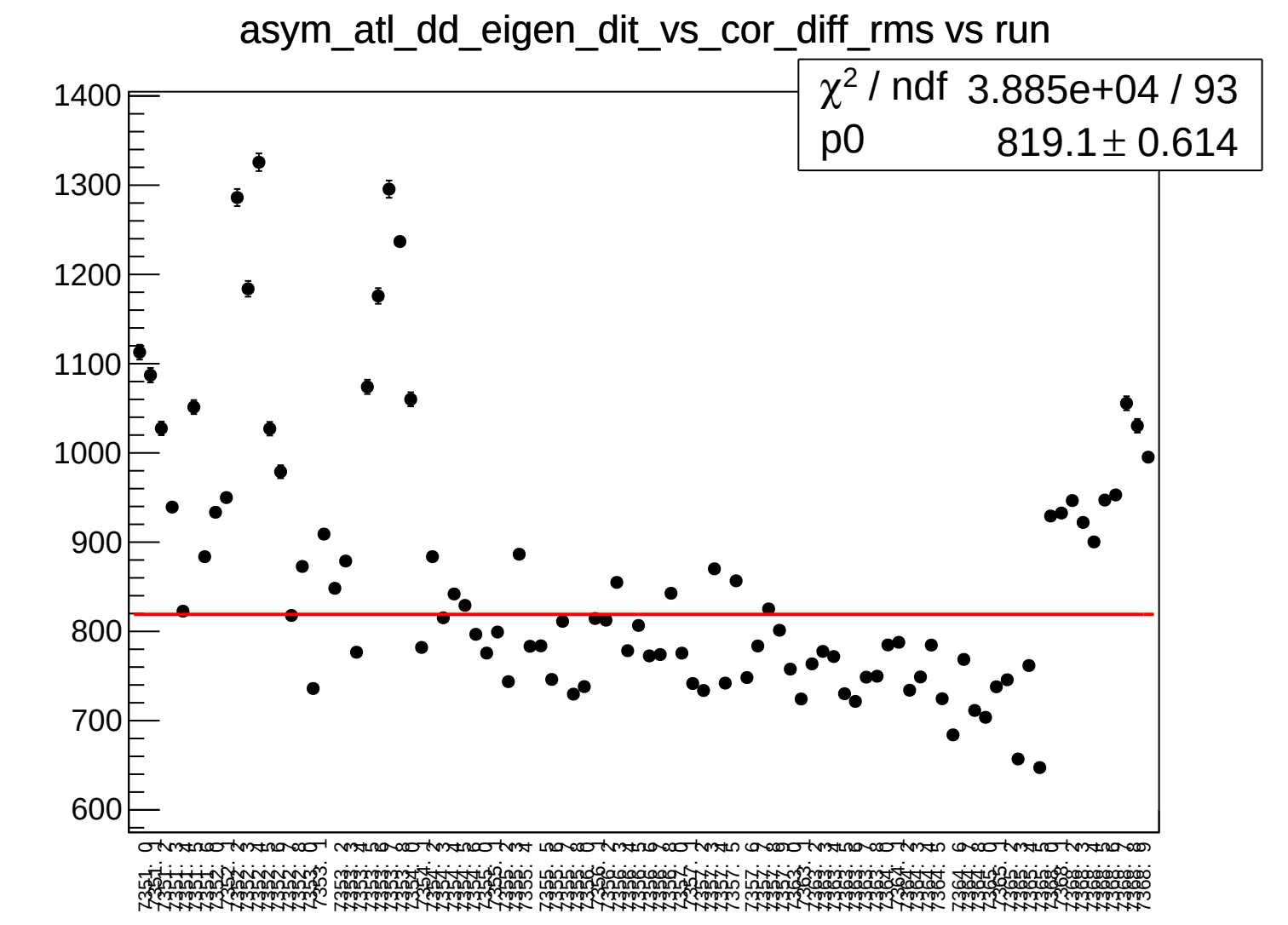

asym_atl_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.885e+04 / 93
p0 819.1 ± 0.614
1400
1300
1200
1100
1000
900
800
700
600

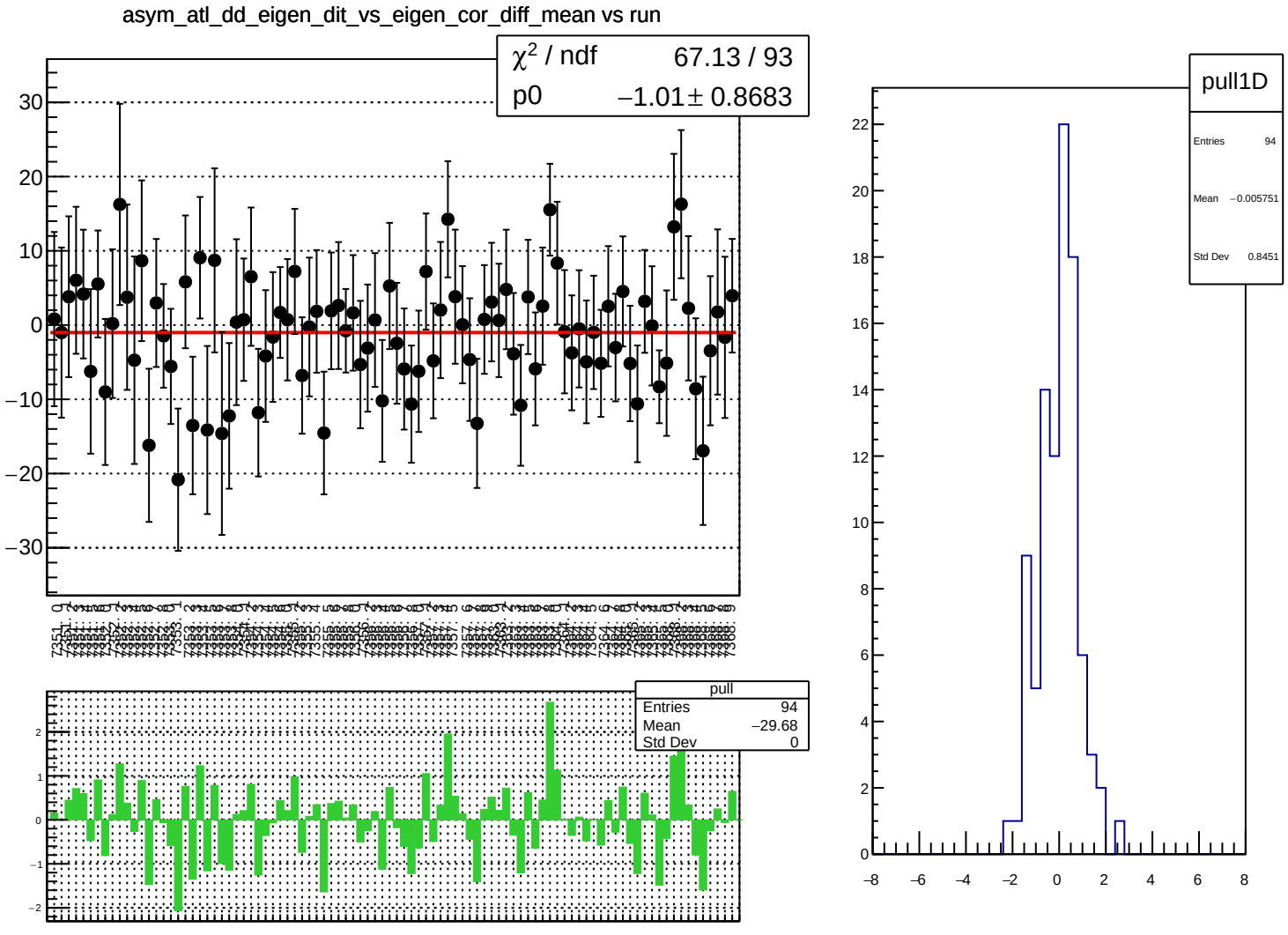

asym_atl_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.99 / 93
p0 −3.416e−05 ± 9.142e−06
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 94
Mean 69.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 94
Mean 0.07198
Std Dev 0.9537
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

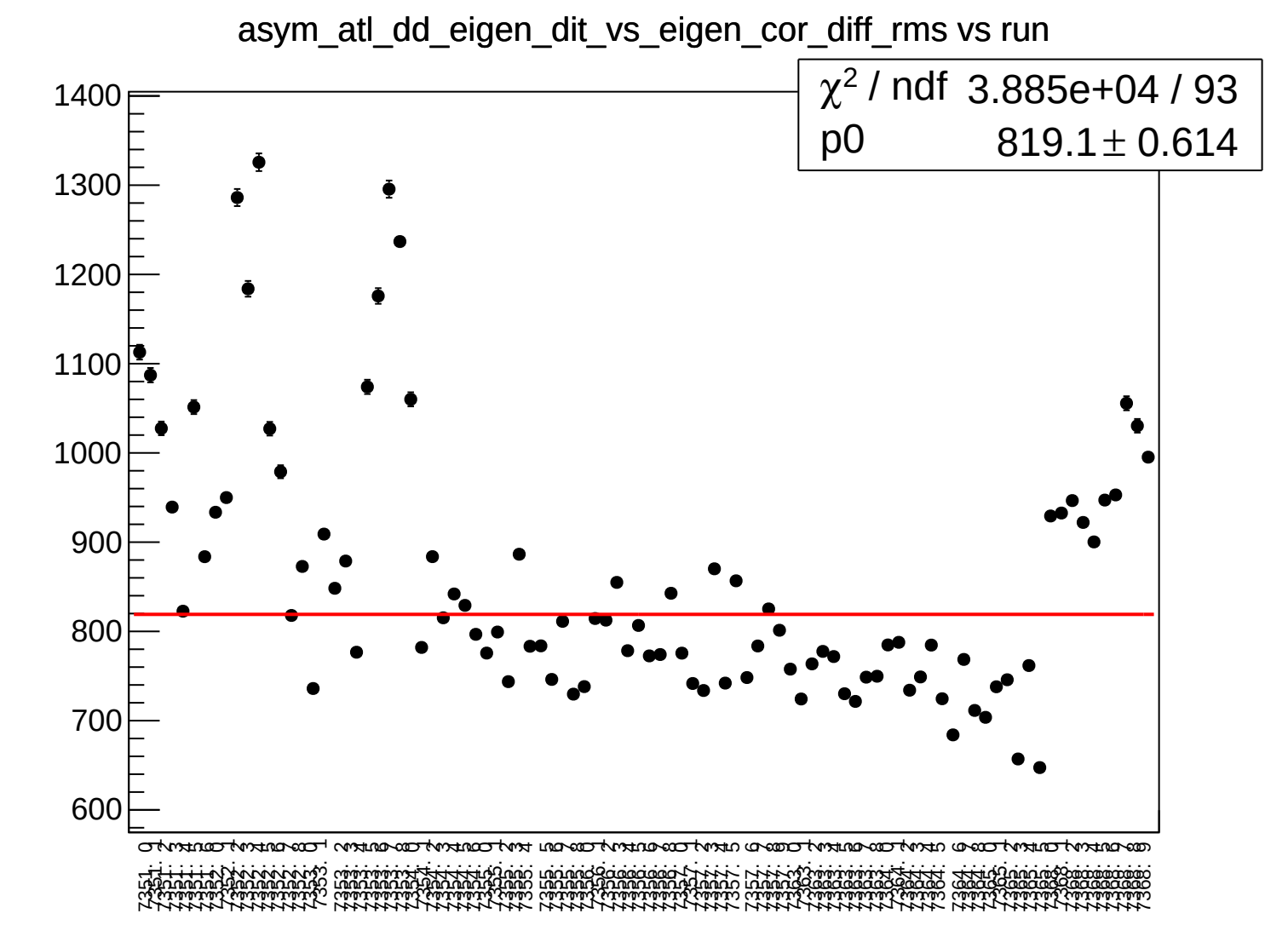

asym_atl_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.956e+05 / 93
p0 0.006851 ± 6.465e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

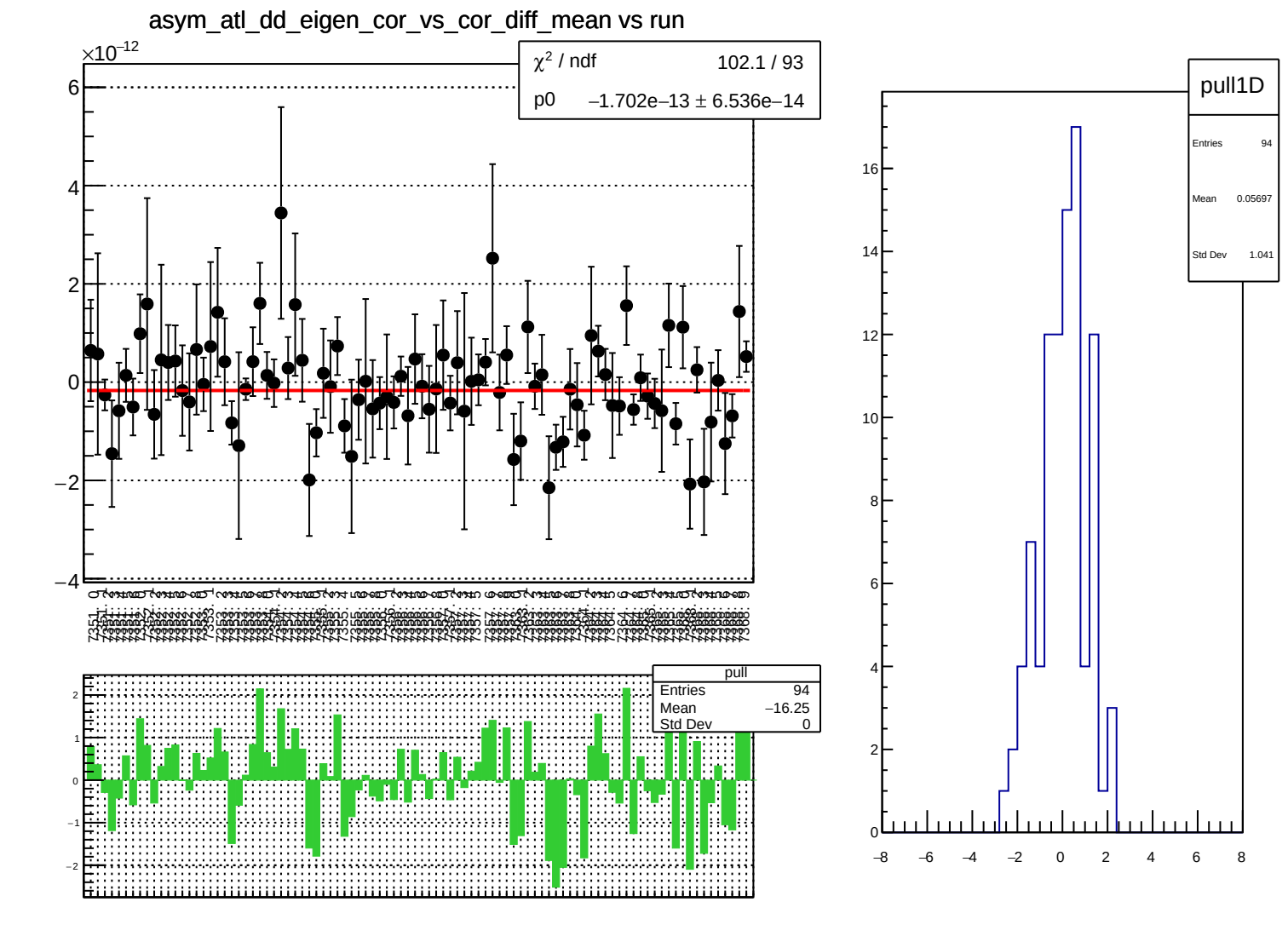

asym_atl_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 67.13 / 93
p0 −1.01 ± 0.8683
pull
Entries 94
Mean −29.68
Std Dev 0

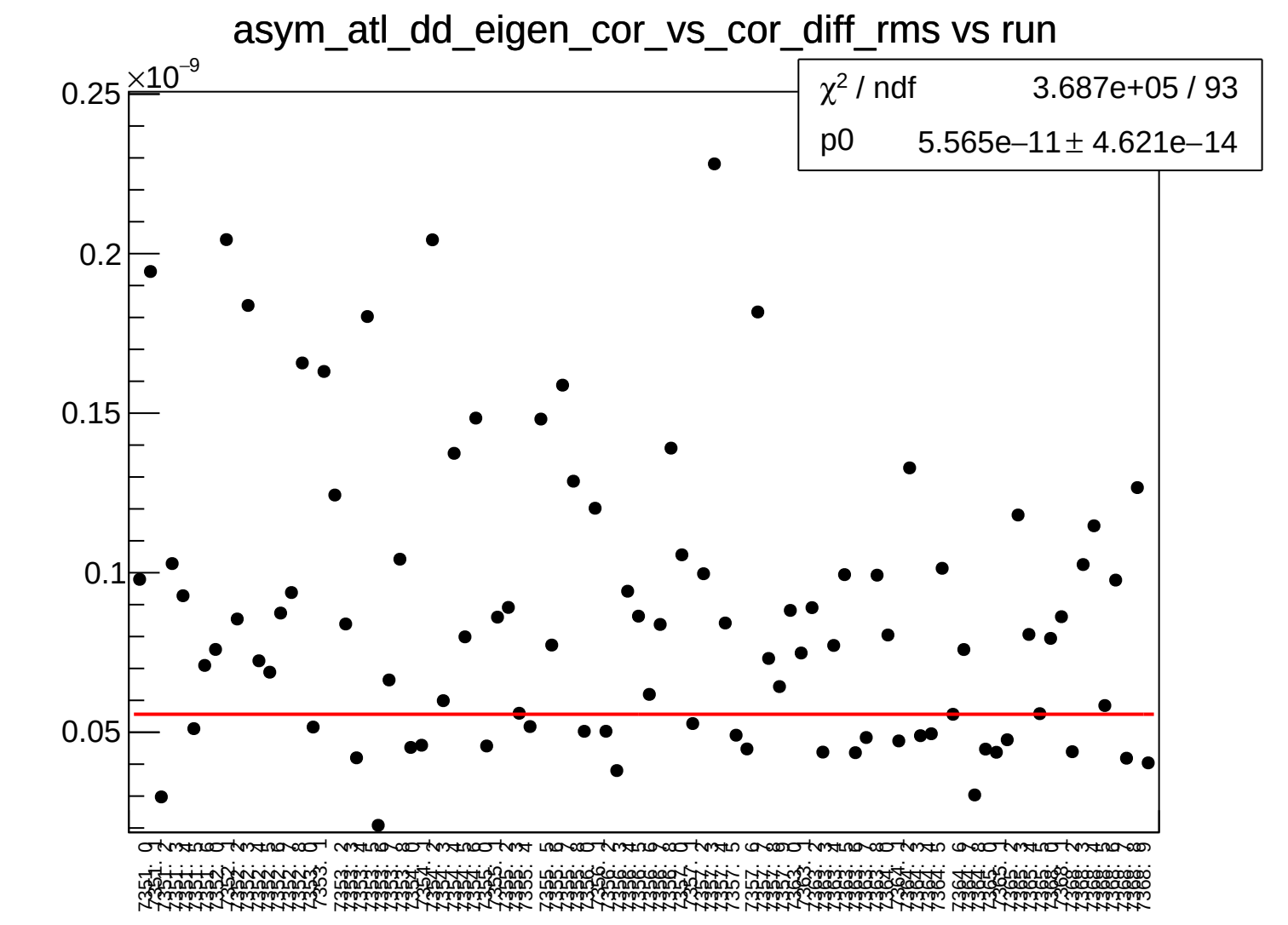

pull1D
Entries 94
Mean −0.005751
Std Dev 0.8451

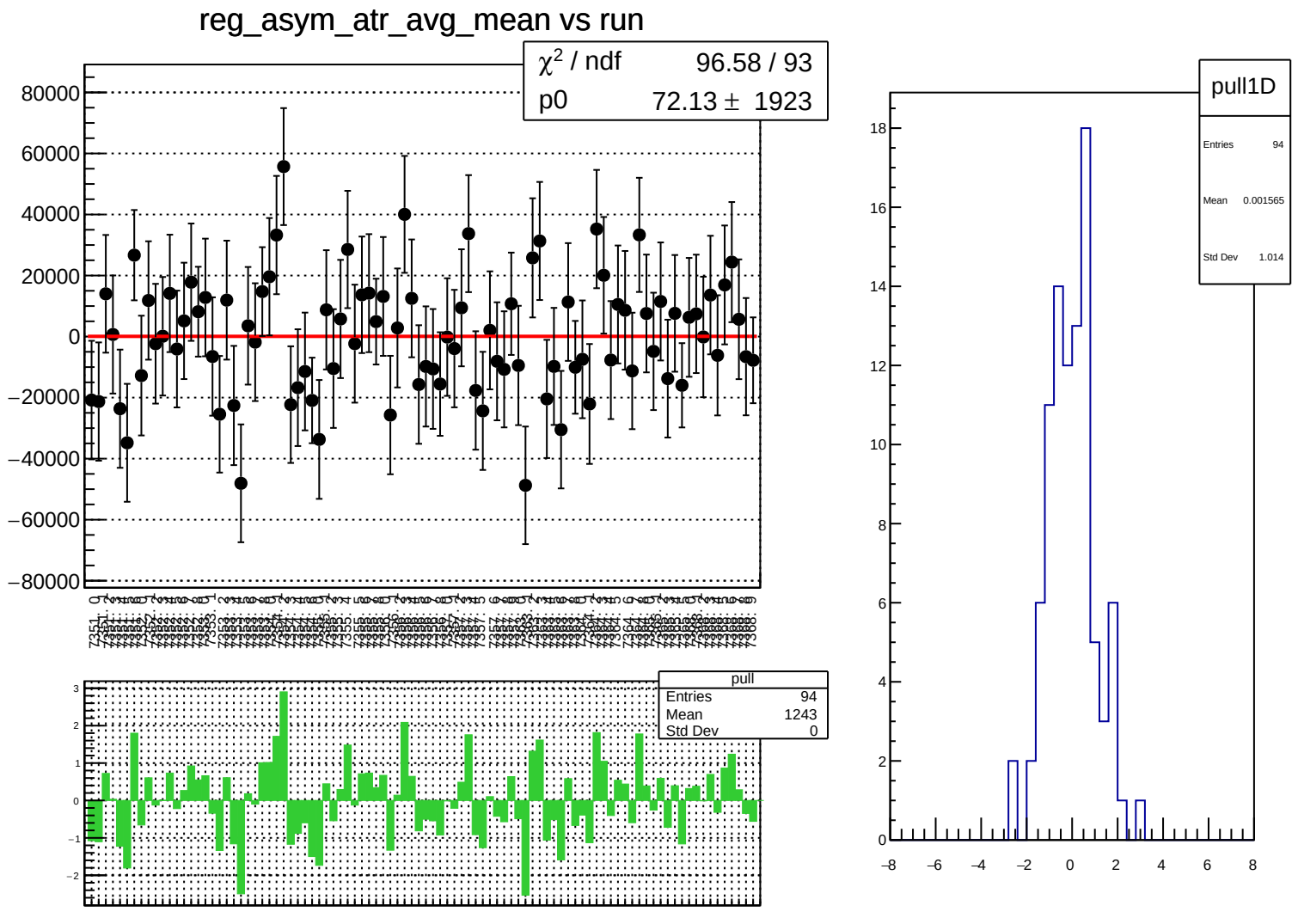

asym_atl_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.885e+04 / 93
p0 819.1 ± 0.614
1400
1300
1200
1100
1000
900
800
700
600

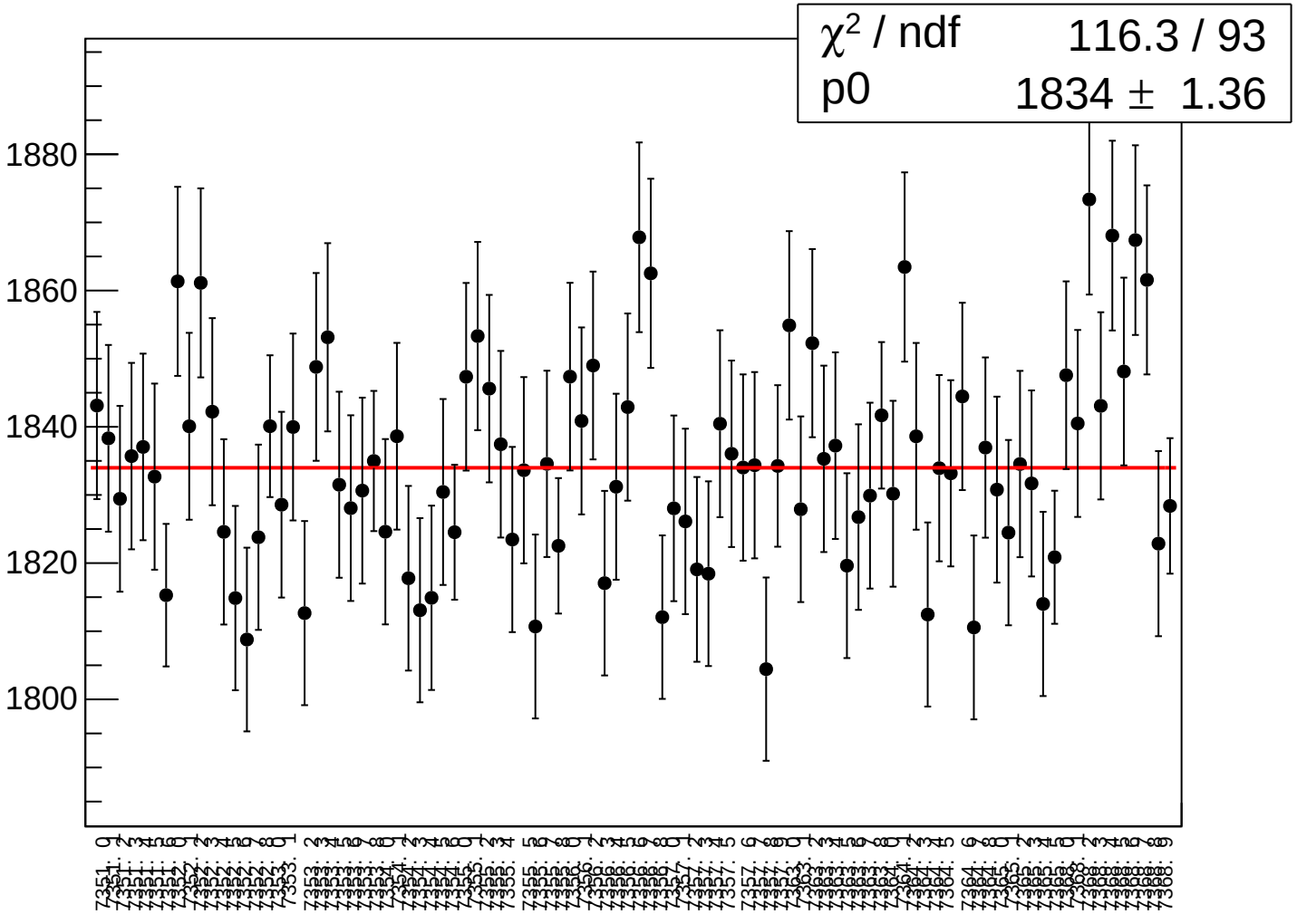

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.13 / 93
p0 −1.01 ± 0.8683
pull
Entries 94
Mean −29.68
Std Dev 0
pull1D
Entries 94
Mean −0.005751
Std Dev 0.8451

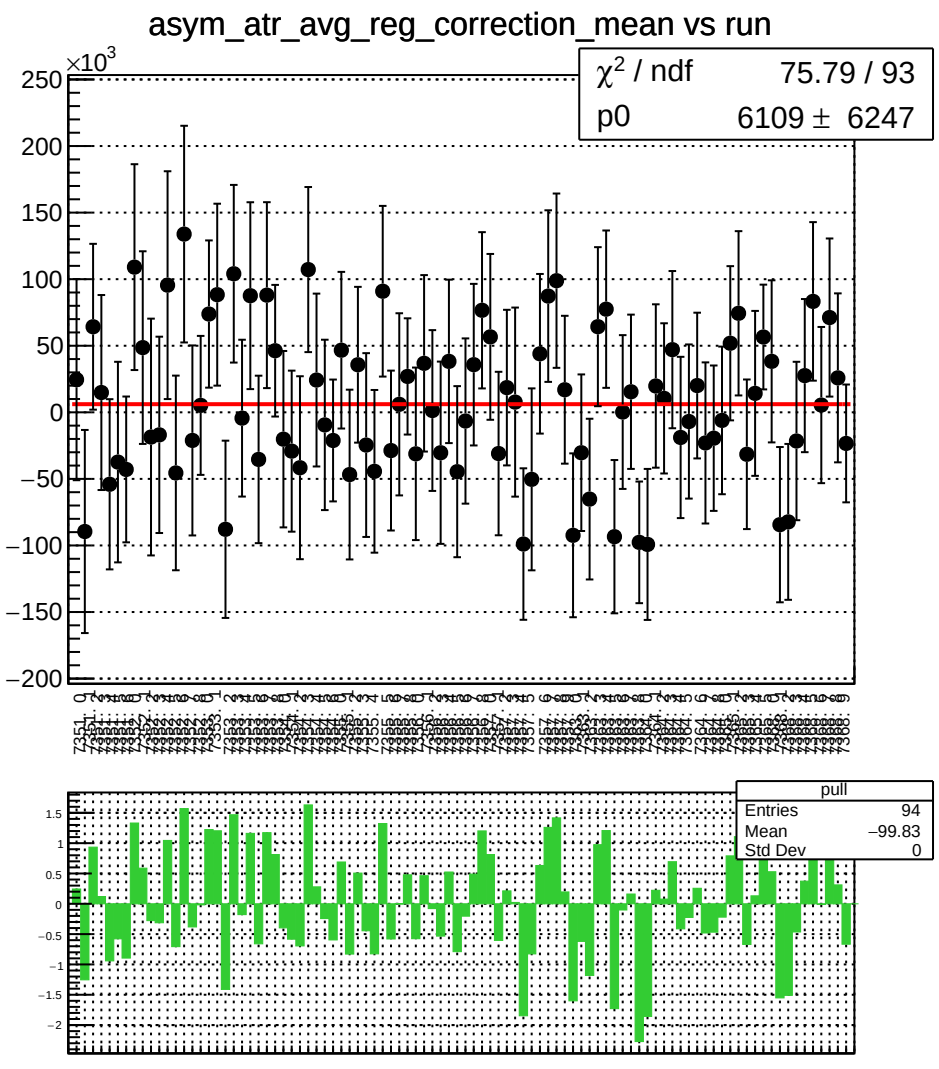

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.885e+04 / 93
p0 819.1 ± 0.614
1400
1300
1200
1100
1000
900
800
700
600

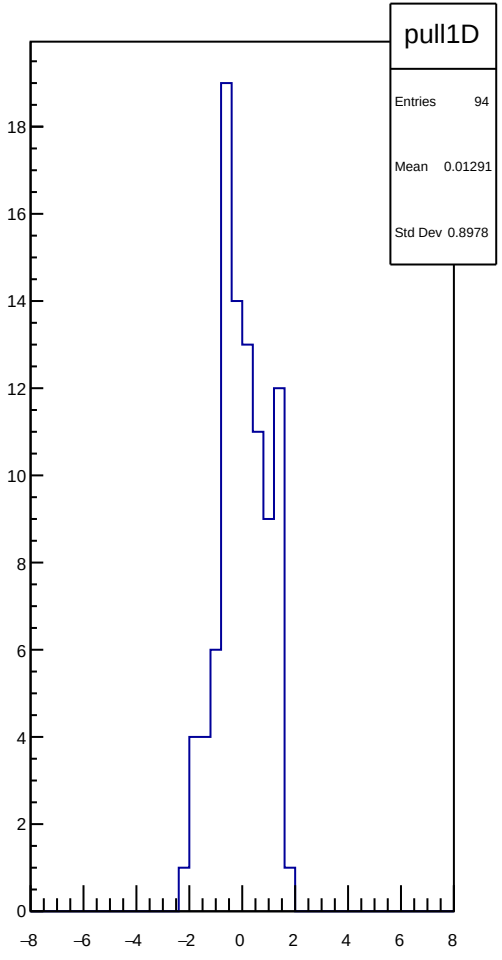

asym_atl_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 102.1 / 93
p0 −1.702e−13 ± 6.536e−14
pull
Entries 94
Mean −16.25
Std Dev 0
pull1D
Entries 94
Mean 0.05697
Std Dev 1.041

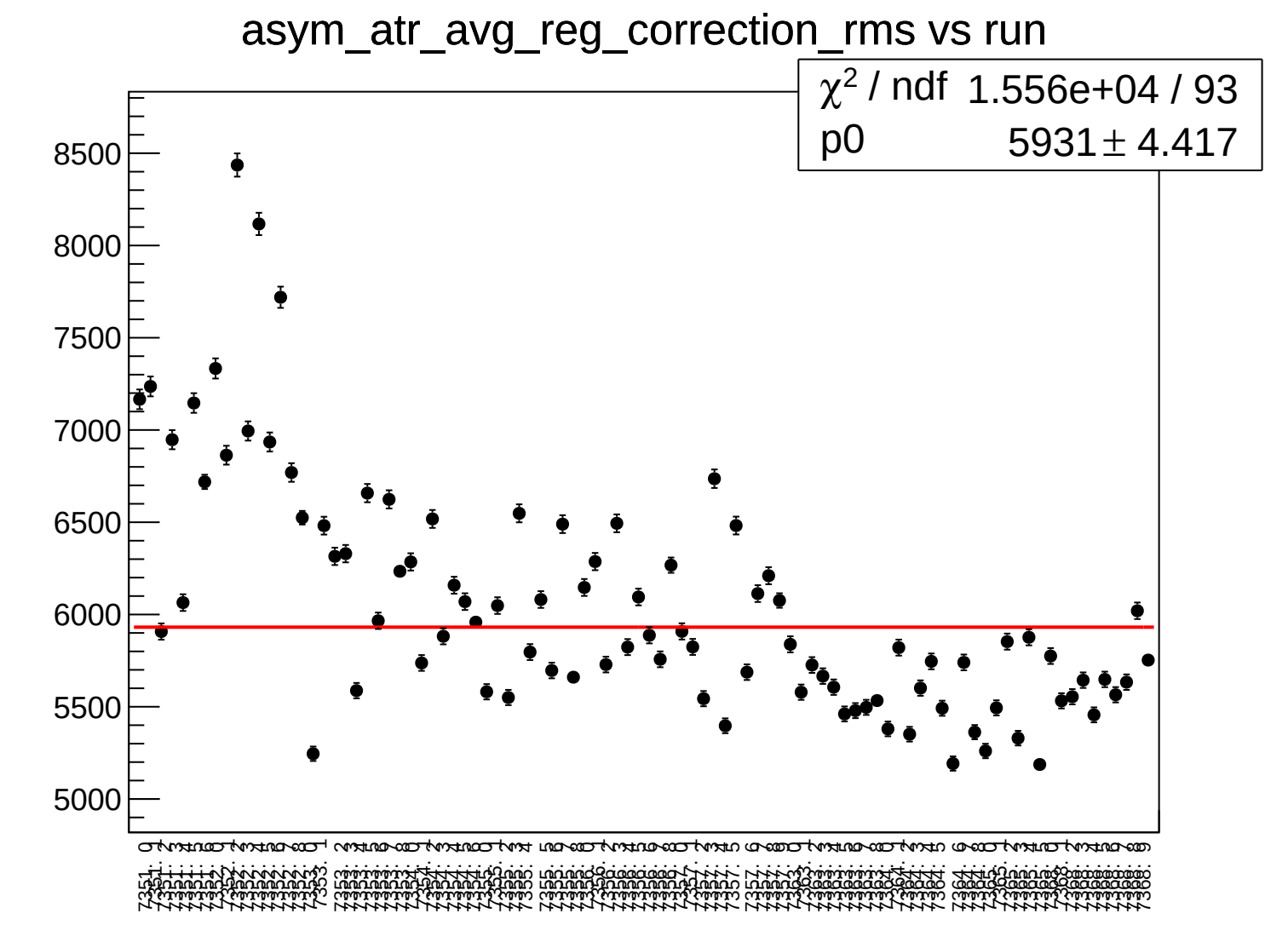

asym_atl_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.687e+05 / 93
p0 5.565e−11 ± 4.621e−14
0.25
0.2
0.15
0.1
0.05

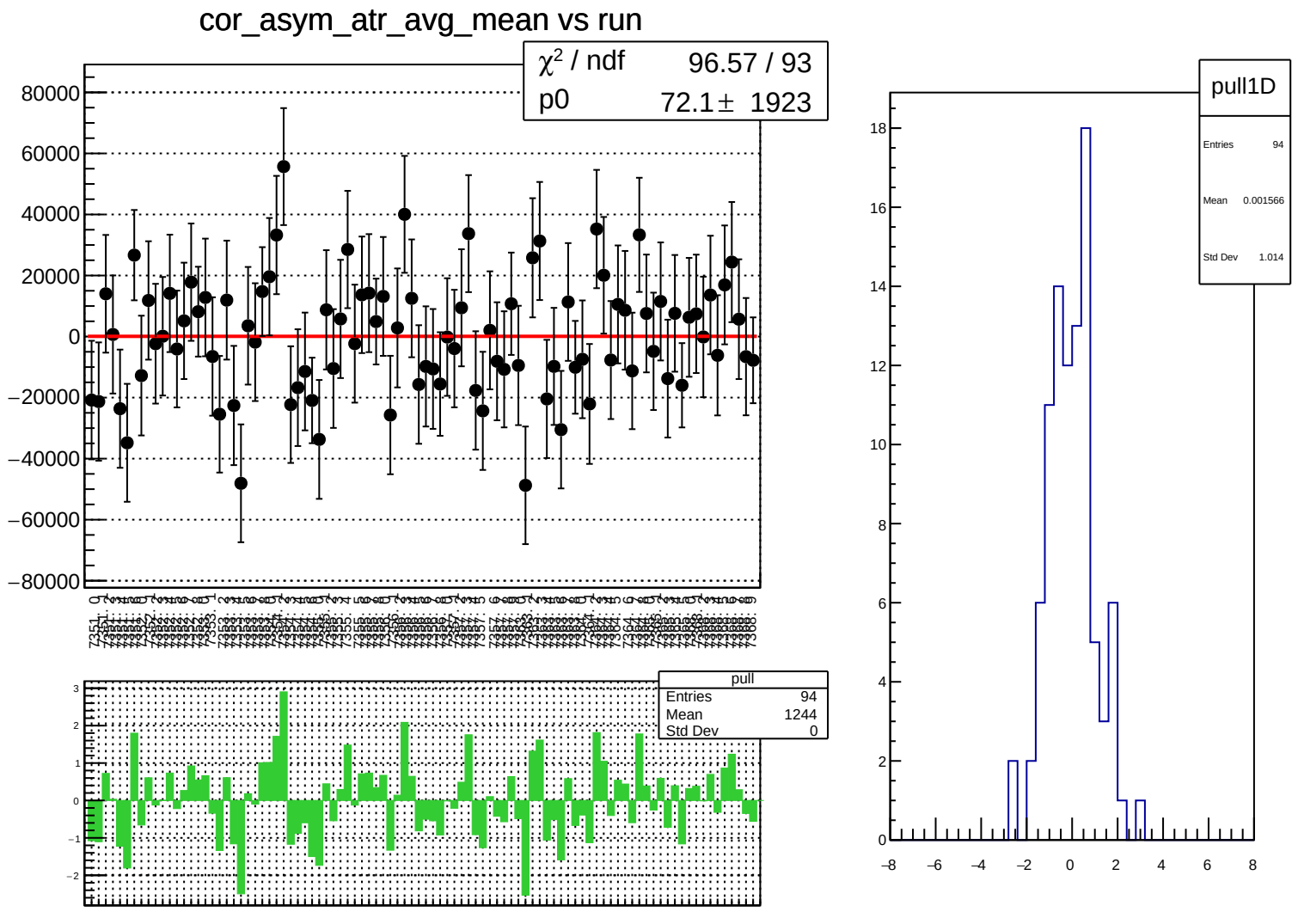

reg_asym_atr_avg_mean vs run
χ² / ndf 96.58 / 93
p0 72.13 ± 1923
pull
Entries 94
Mean 1243
Std Dev 0
pull1D
Entries 94
Mean 0.001565
Std Dev 1.014

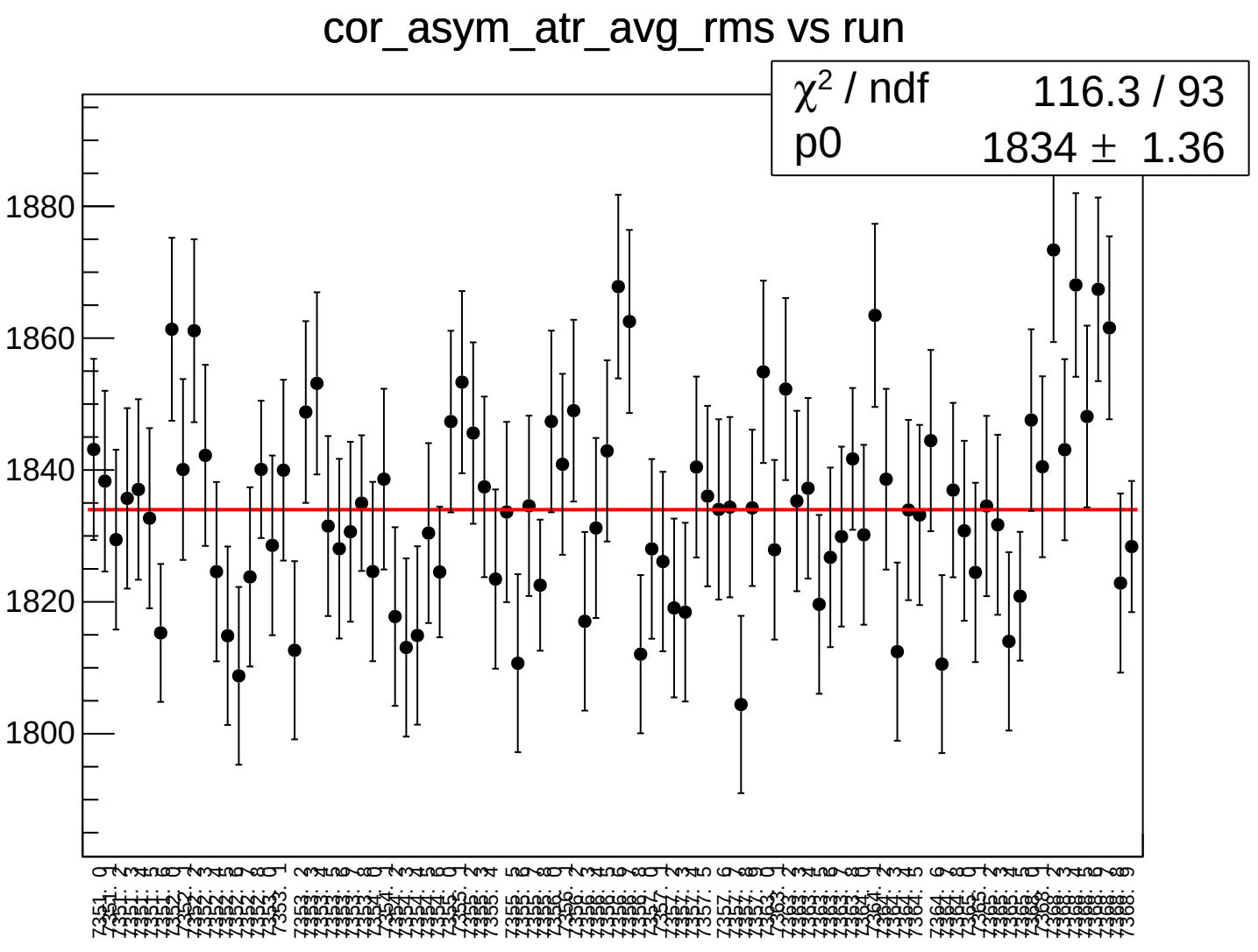

reg_asym_atr_avg_rms vs run
χ^2 / ndf 116.3 / 93
p0 1834 ± 1.36
1880
1860
1840
1820
1800

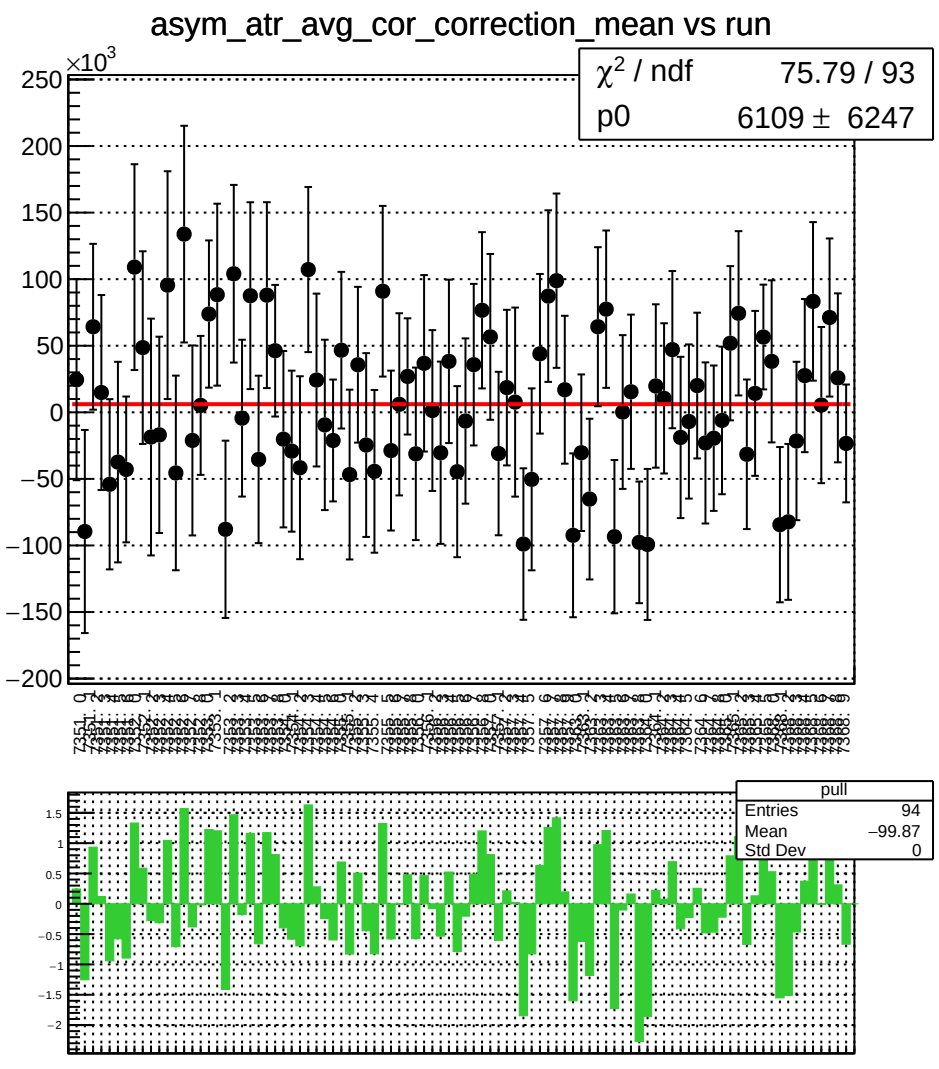

asym_atr_avg_reg_correction_mean vs run
×10^3
χ² / ndf 75.79 / 93
p0 6109 ± 6247
pull
Entries 94
Mean −99.83
Std Dev 0

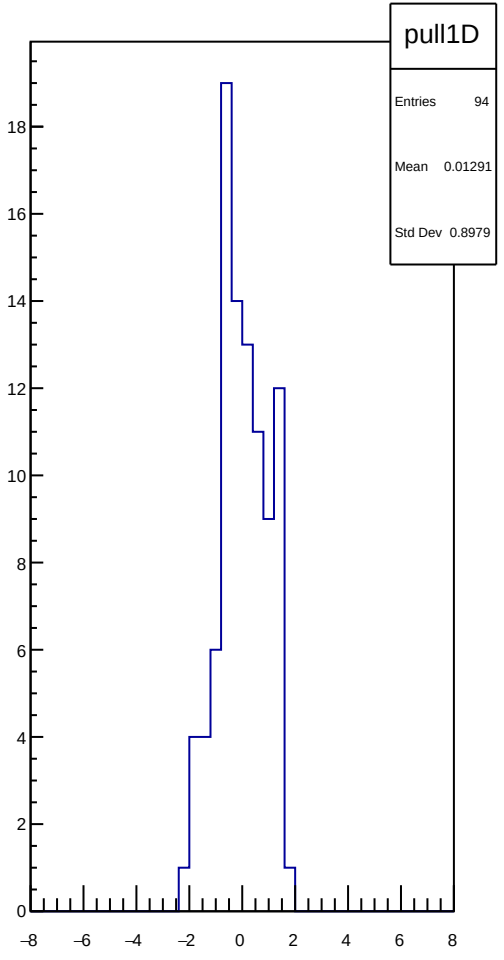

pull1D
Entries 94
Mean 0.01291
Std Dev 0.8978

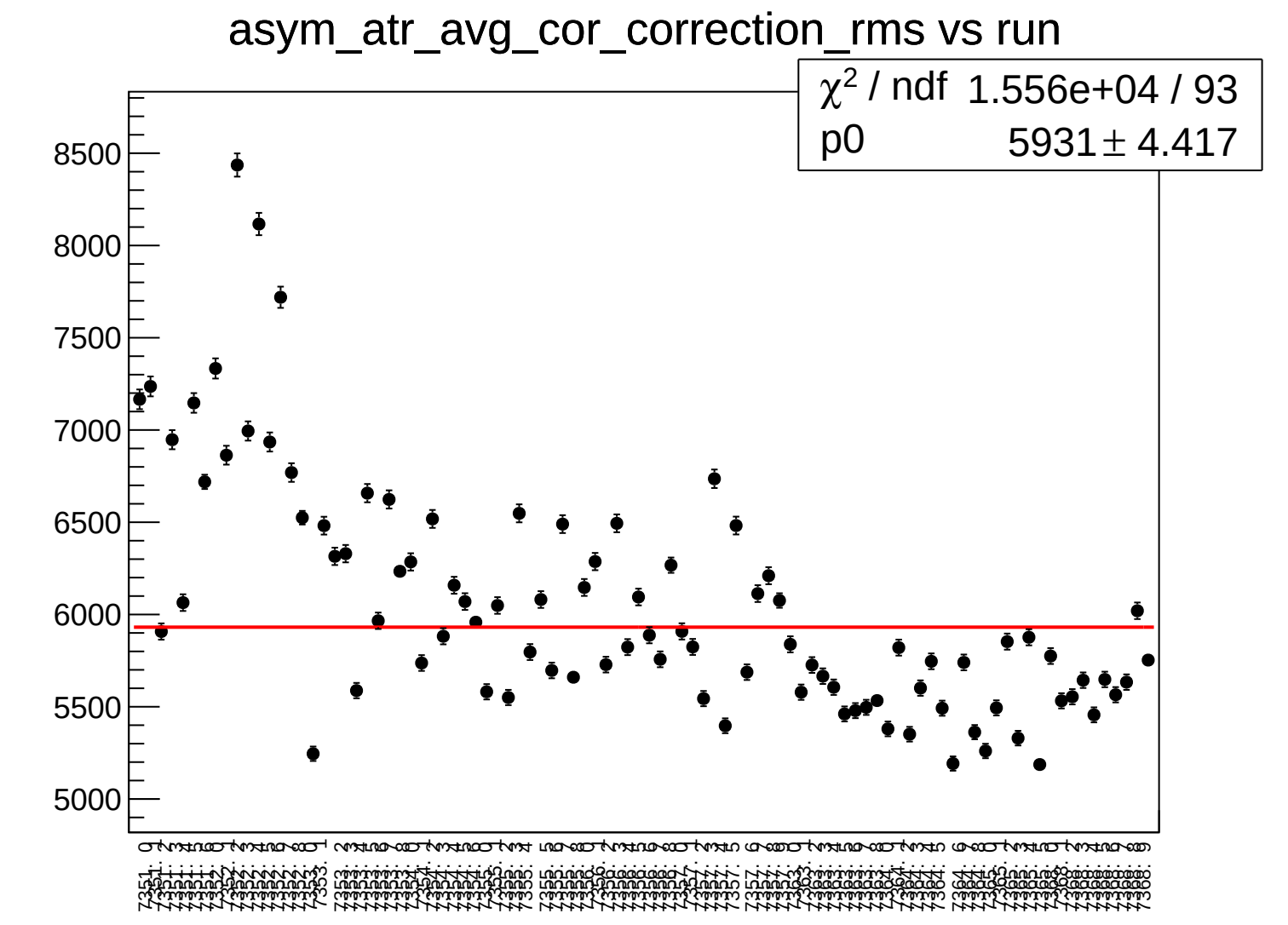

asym_atr_avg_reg_correction_rms vs run
χ² / ndf 1.556e+04 / 93
p0 5931 ± 4.417
8500
8000
7500
7000
6500
6000
5500
5000

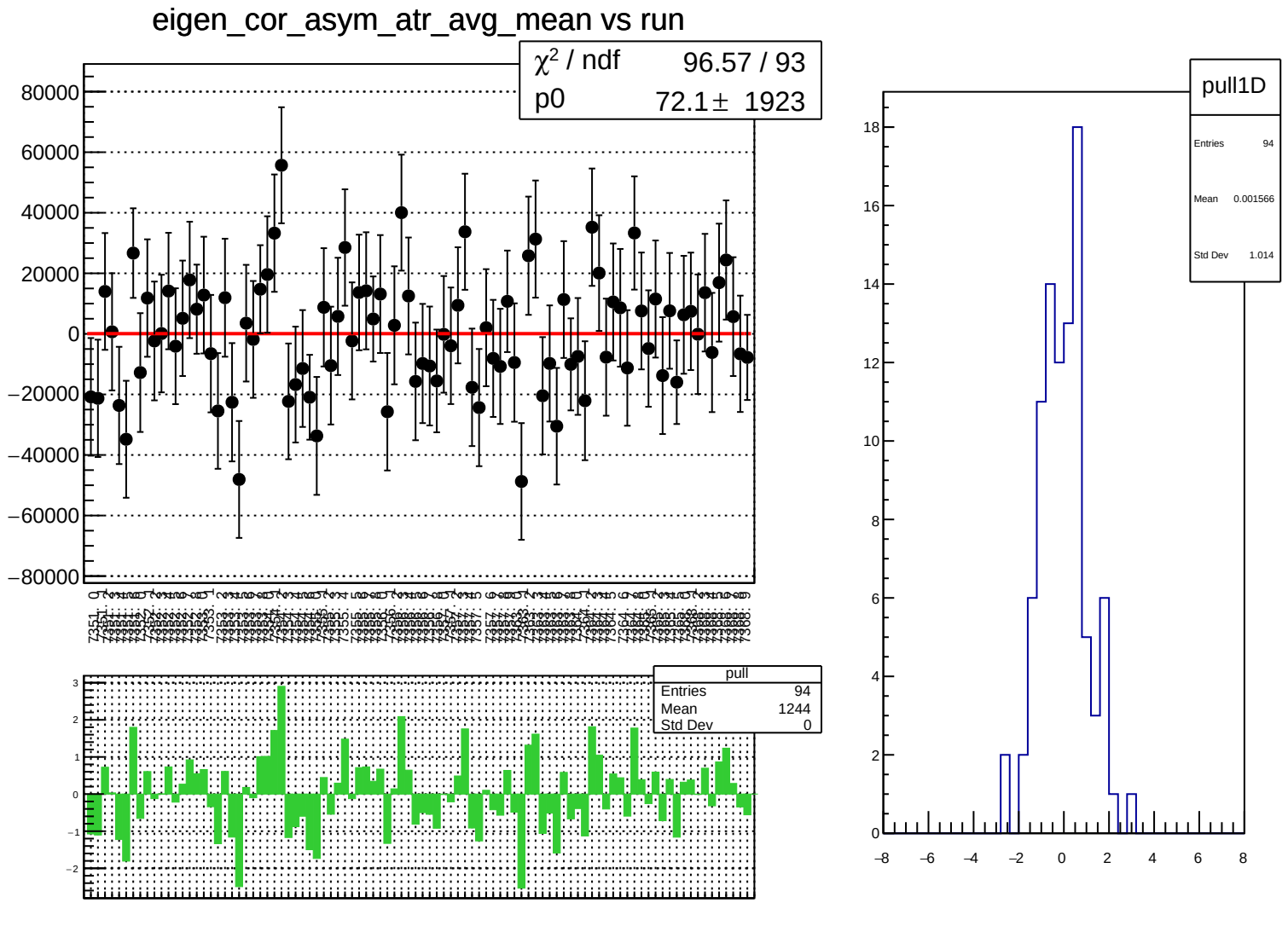

cor_asym_atr_avg_mean vs run
χ² / ndf 96.57 / 93
p0 72.1± 1923
pull
Entries 94
Mean 1244
Std Dev 0
pull1D
Entries 94
Mean 0.001566
Std Dev 1.014

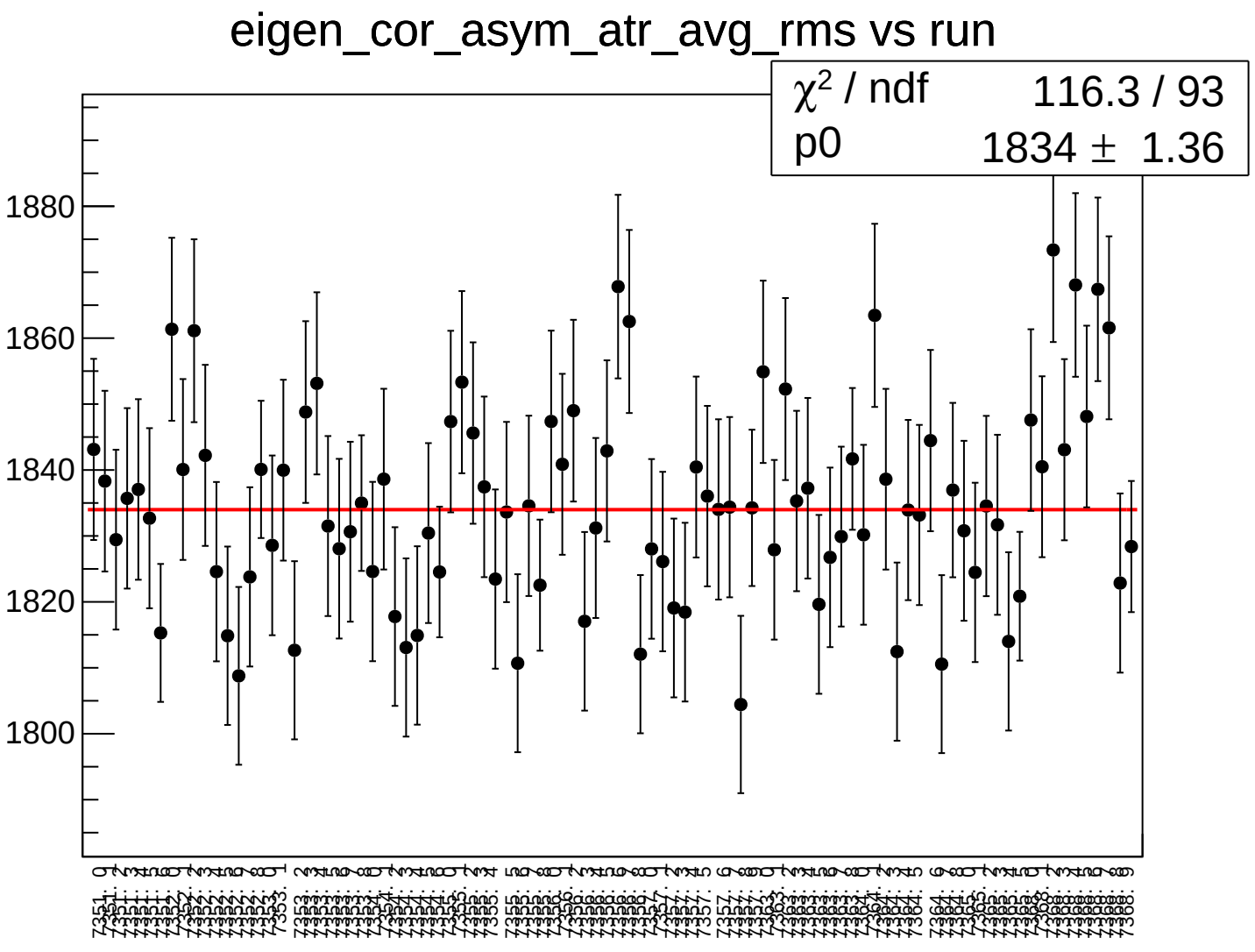

cor_asym_atr_avg_rms vs run
χ² / ndf 116.3 / 93
p0 1834 ± 1.36
1880
1860
1840
1820
1800

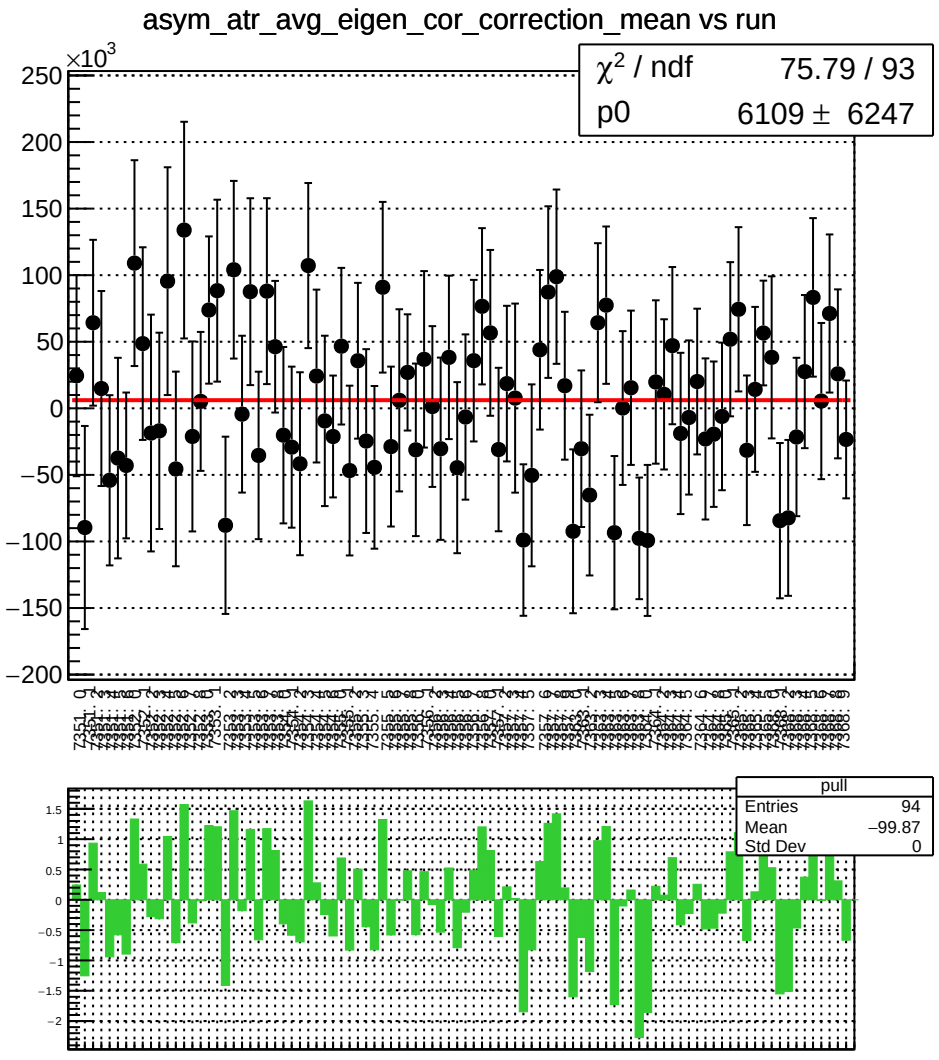

asym_atr_avg_cor_correction_mean vs run
χ^2 / ndf 75.79 / 93
p0 6109 ± 6247
×10^3
pull
Entries 94
Mean −99.87
Std Dev 0

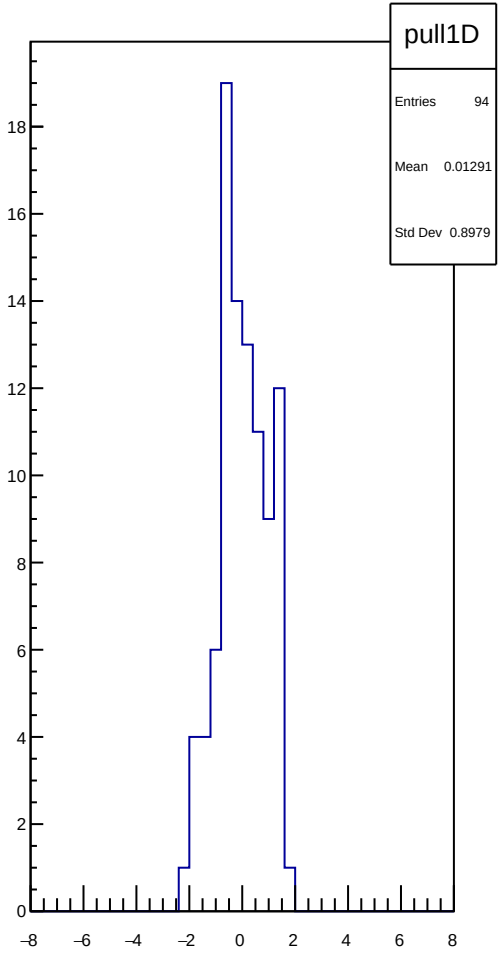

pull1D
Entries 94
Mean 0.01291
Std Dev 0.8979

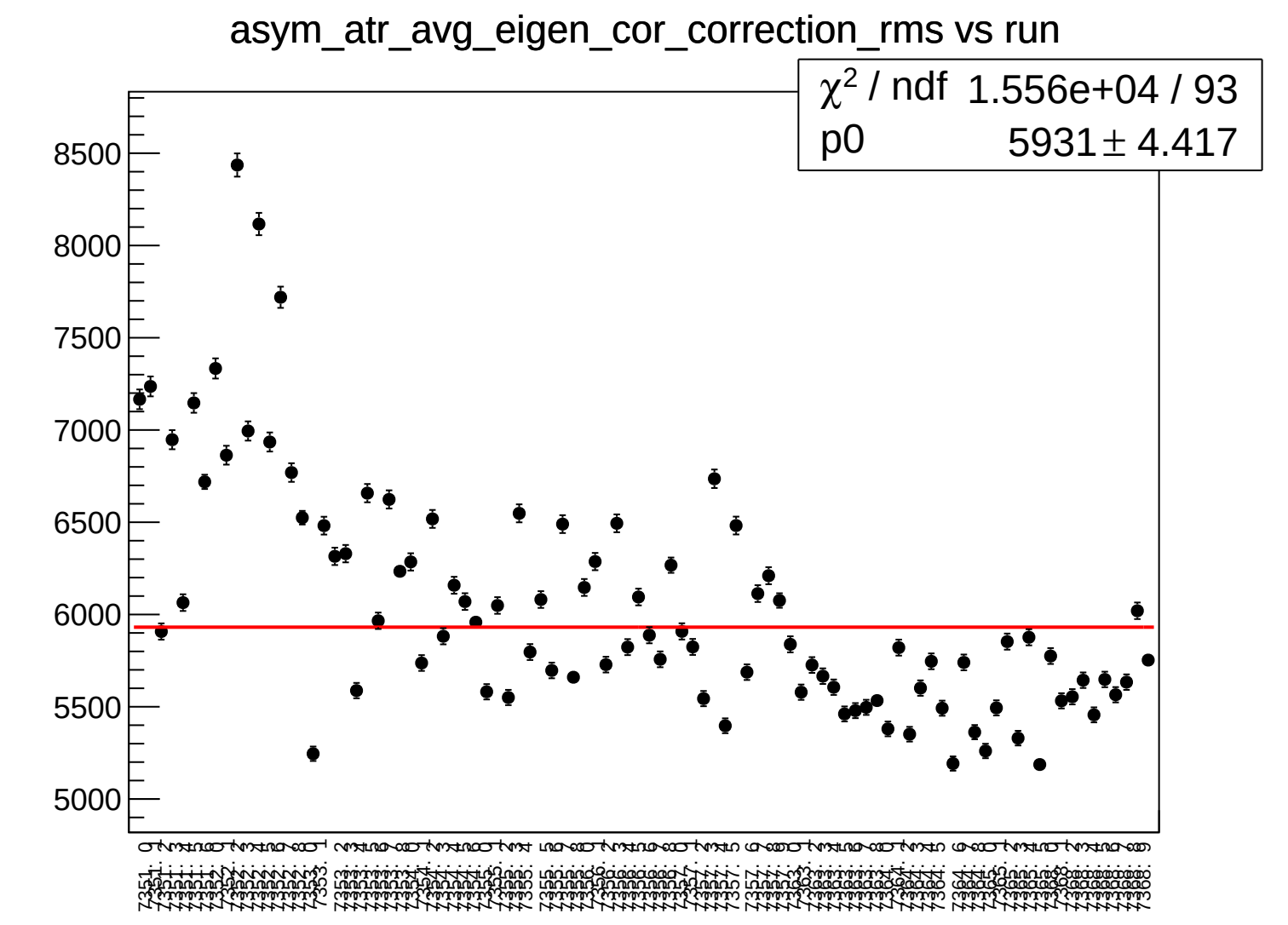

asym_atr_avg_cor_correction_rms vs run
χ² / ndf 1.556e+04 / 93
p0 5931 ± 4.417
8500
8000
7500
7000
6500
6000
5500
5000

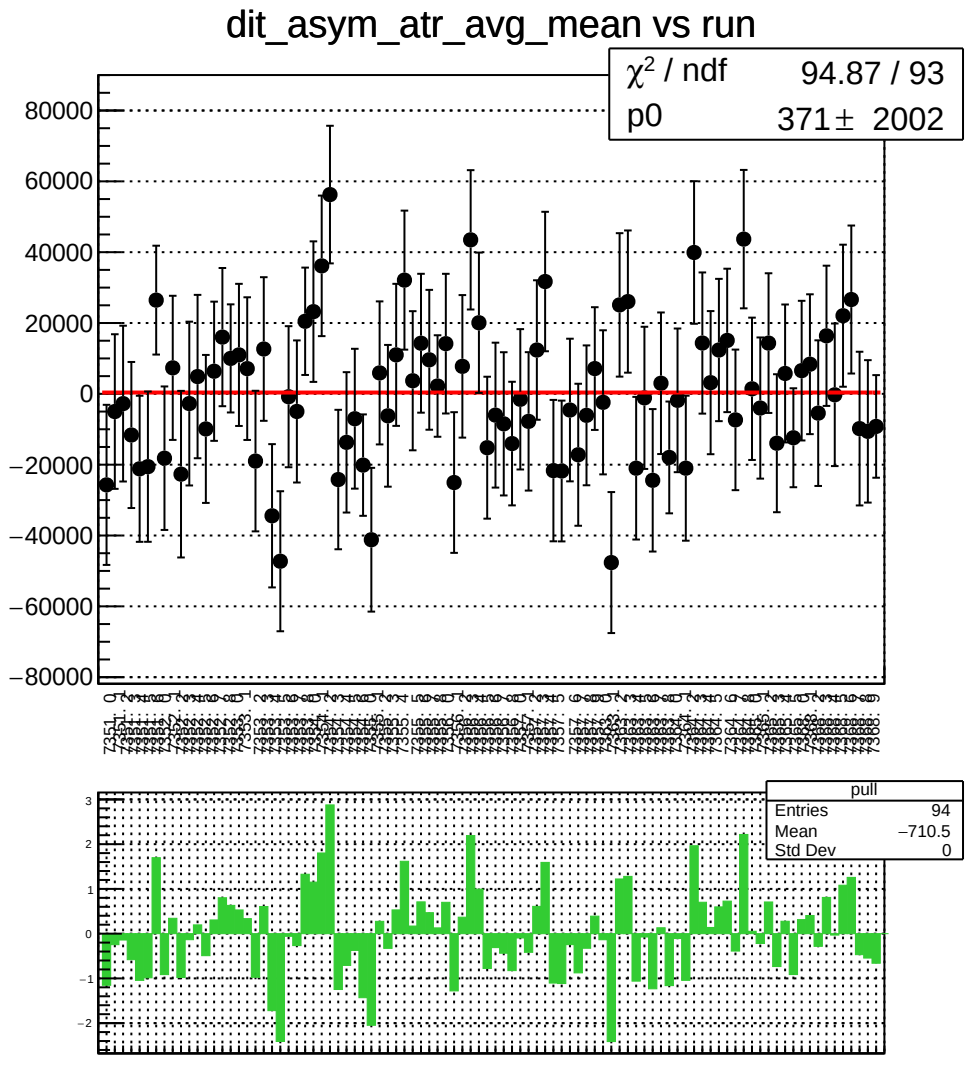

eigen_cor_asym_atr_avg_mean vs run
χ² / ndf 96.57 / 93
p0 72.1± 1923
pull
Entries 94
Mean 1244
Std Dev 0
pull1D
Entries 94
Mean 0.001566
Std Dev 1.014

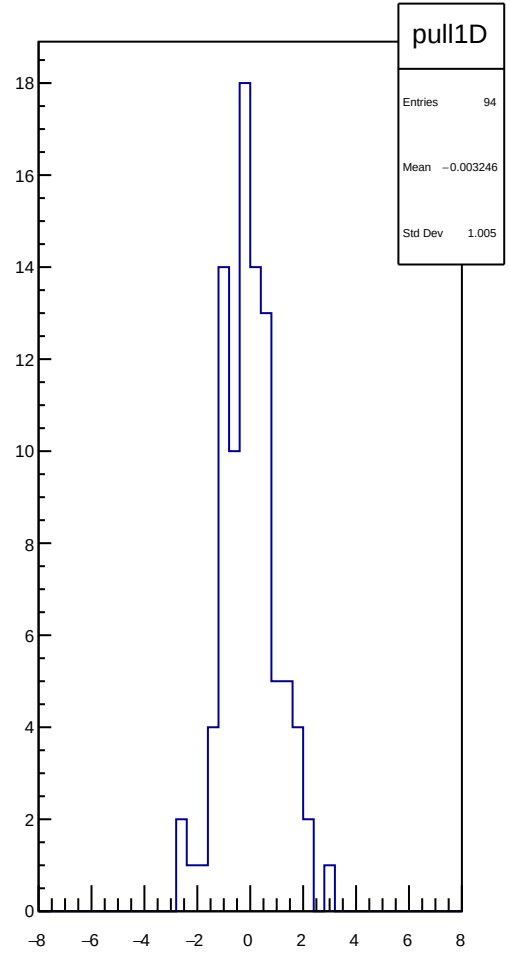

eigen_cor_asym_atr_avg_rms vs run
χ² / ndf 116.3 / 93
p0 1834 ± 1.36
1880
1860
1840
1820
1800

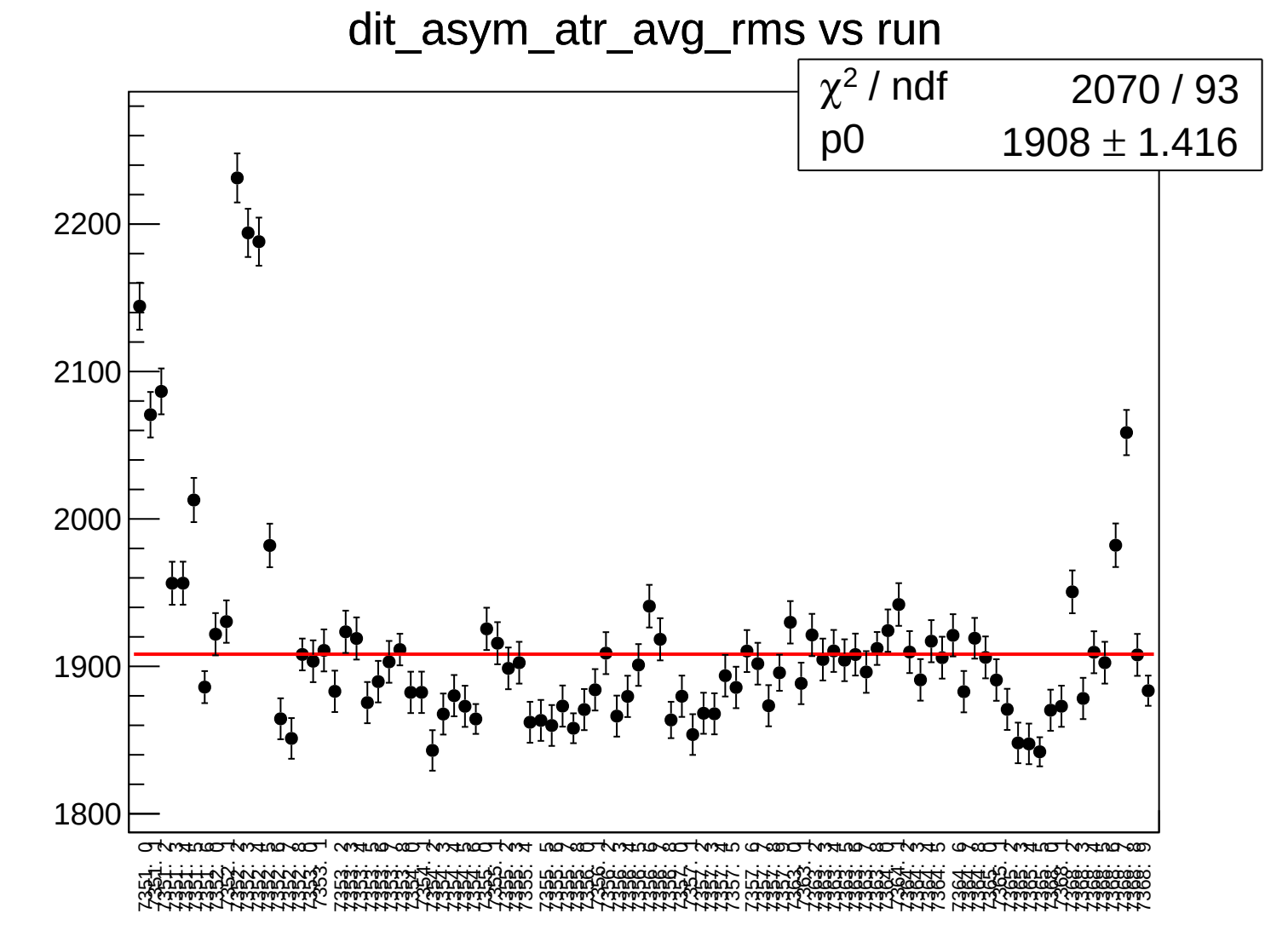

asym_atr_avg_eigen_cor_correction_mean vs run
χ² / ndf 75.79 / 93
p0 6109 ± 6247
×10³
pull
Entries 94
Mean −99.87
Std Dev 0

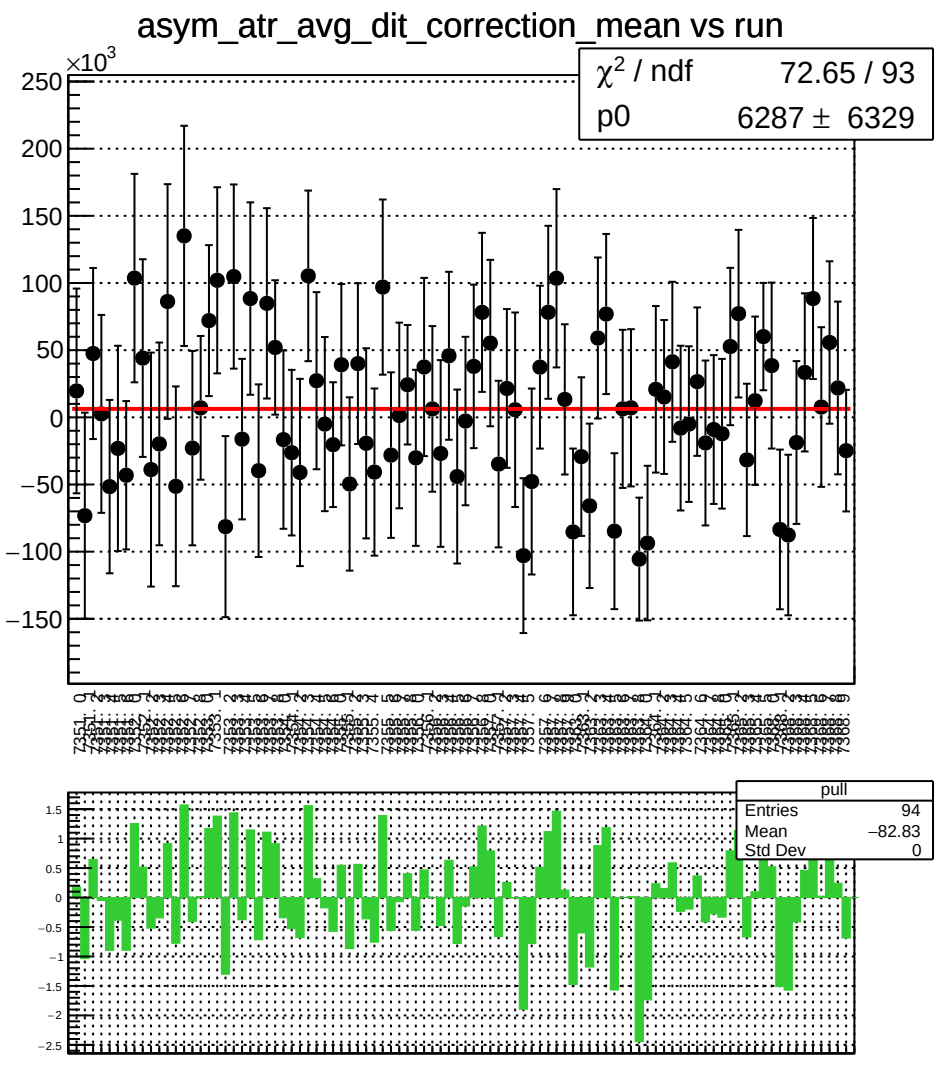

pull1D
Entries 94
Mean 0.01291
Std Dev 0.8979

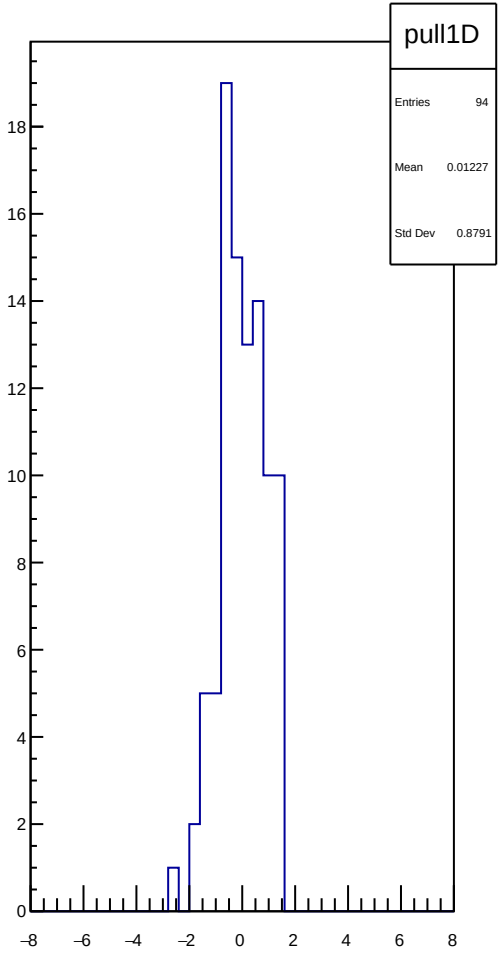

asym_atr_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.556e+04 / 93
p0 5931 ± 4.417
8500
8000
7500
7000
6500
6000
5500
5000


dit_asym_atr_avg_mean vs run
χ² / ndf 94.87 / 93
p0 371 ± 2002
pull
Entries 94
Mean −710.5
Std Dev 0

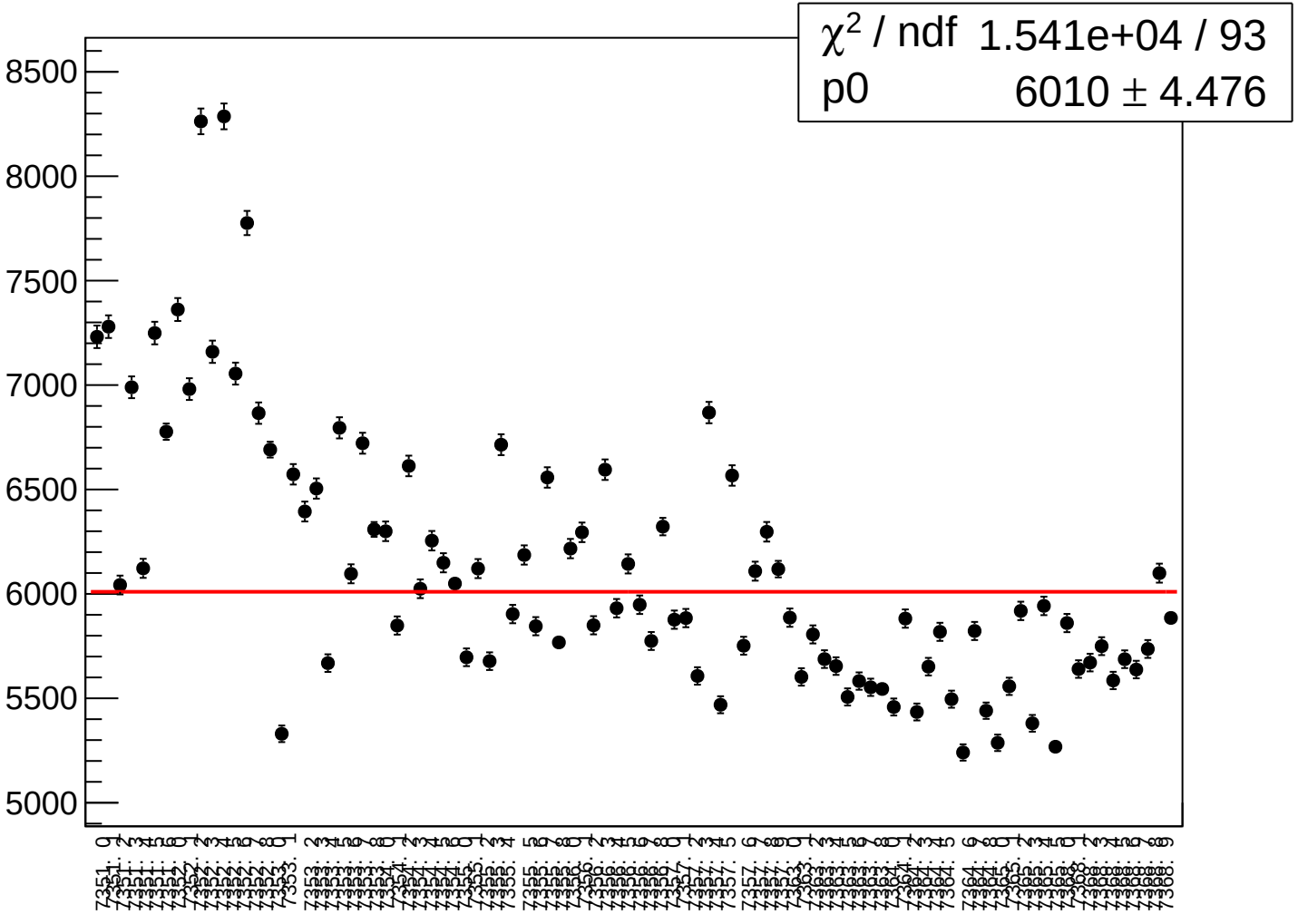

pull1D
Entries 94
Mean −0.003246
Std Dev 1.005

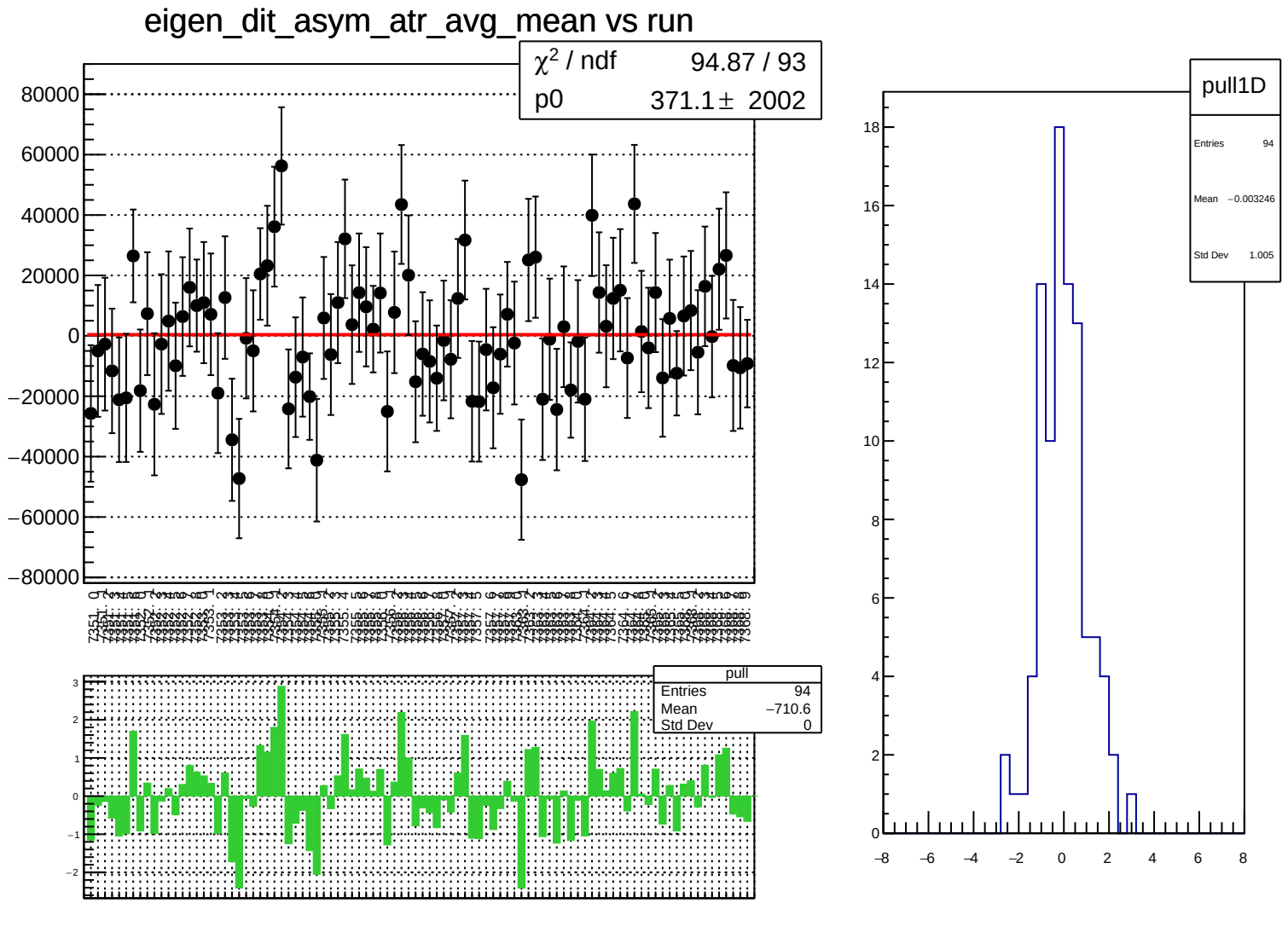

dit_asym_atr_avg_rms vs run
χ² / ndf 2070 / 93
p0 1908 ± 1.416
2200
2100
2000
1900
1800

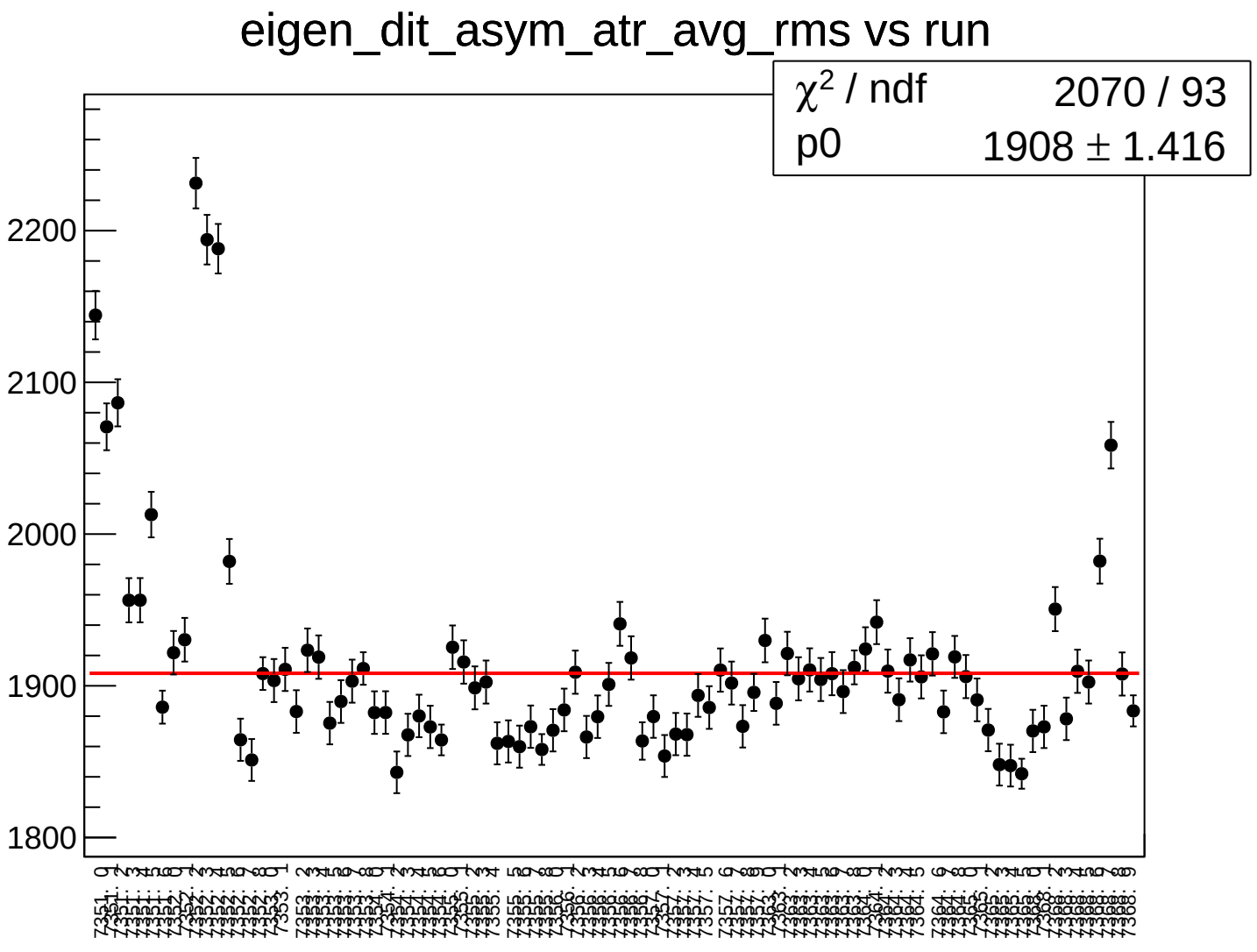

asym_atr_avg_dit_correction_mean vs run
×10^3
χ² / ndf 72.65 / 93
p0 6287 ± 6329
pull
Entries 94
Mean −82.83
Std Dev 0

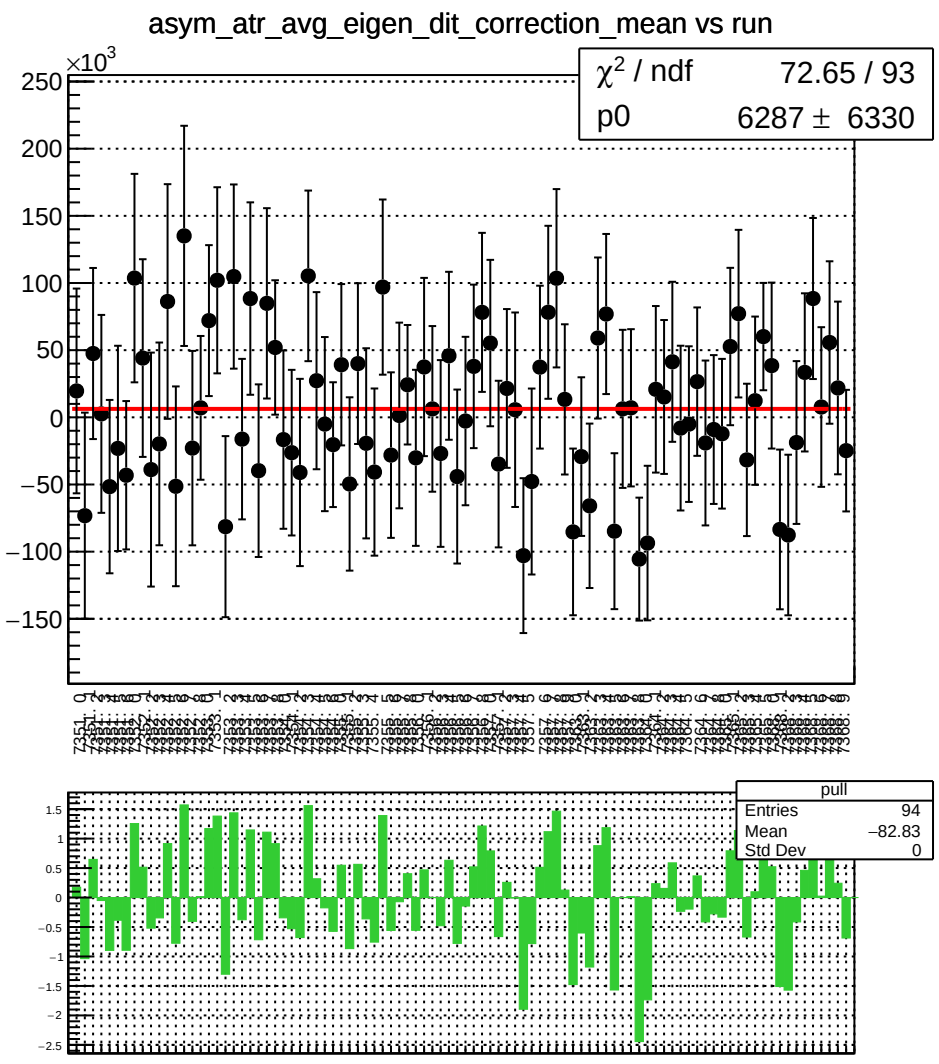

pull1D
Entries 94
Mean 0.01227
Std Dev 0.8791

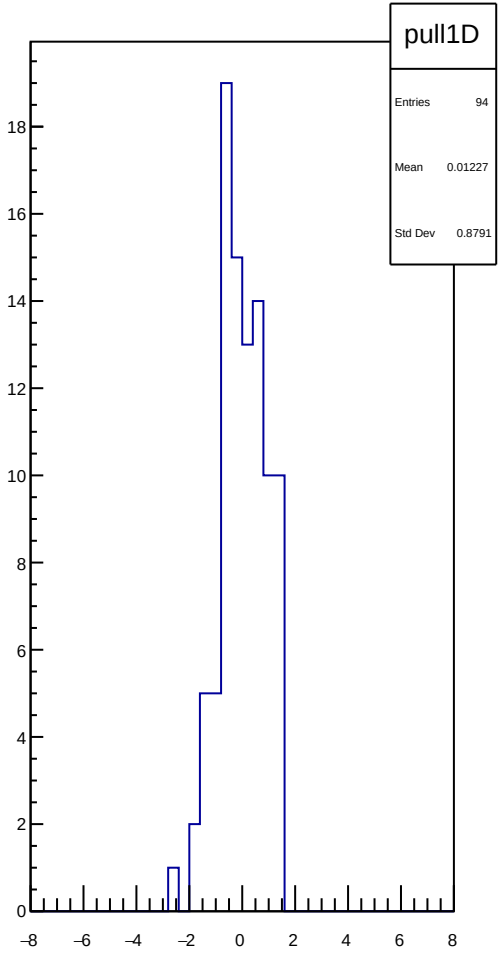
asym_atr_avg_dit_correction_rms vs run

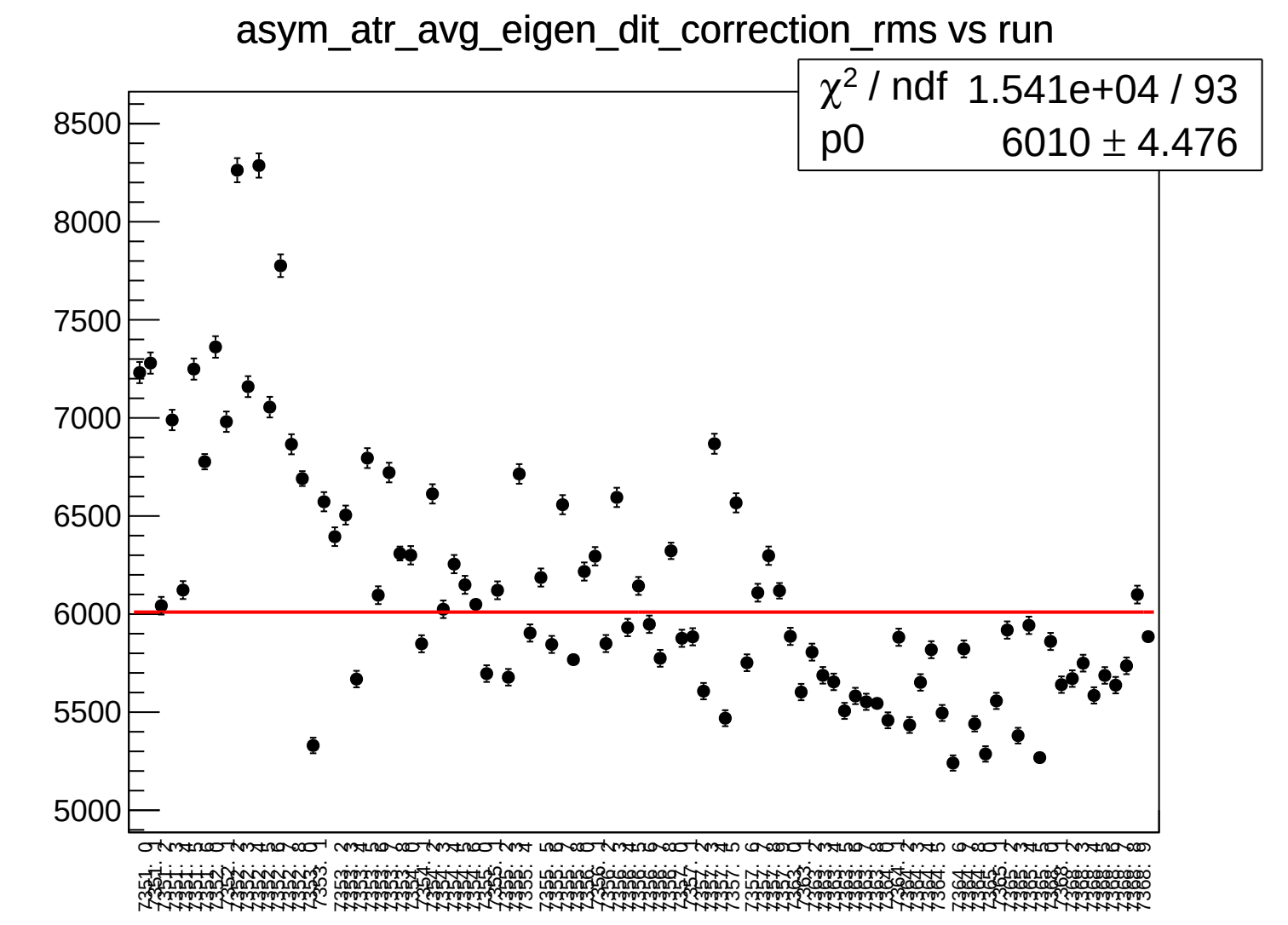


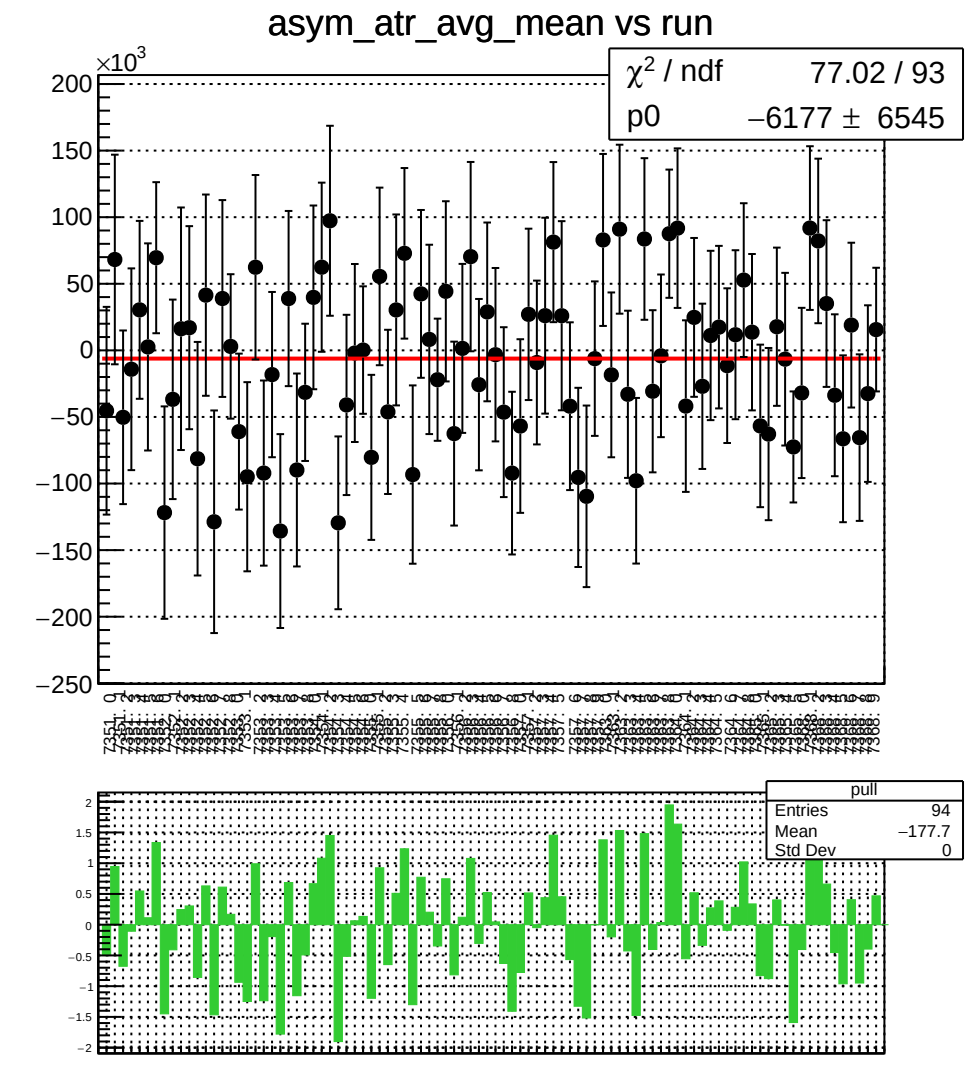

eigen_dit_asym_atr_avg_mean vs run
χ² / ndf 94.87 / 93
p0 371.1 ± 2002
pull
Entries 94
Mean −710.6
Std Dev 0
pull1D
Entries 94
Mean −0.003246
Std Dev 1.005

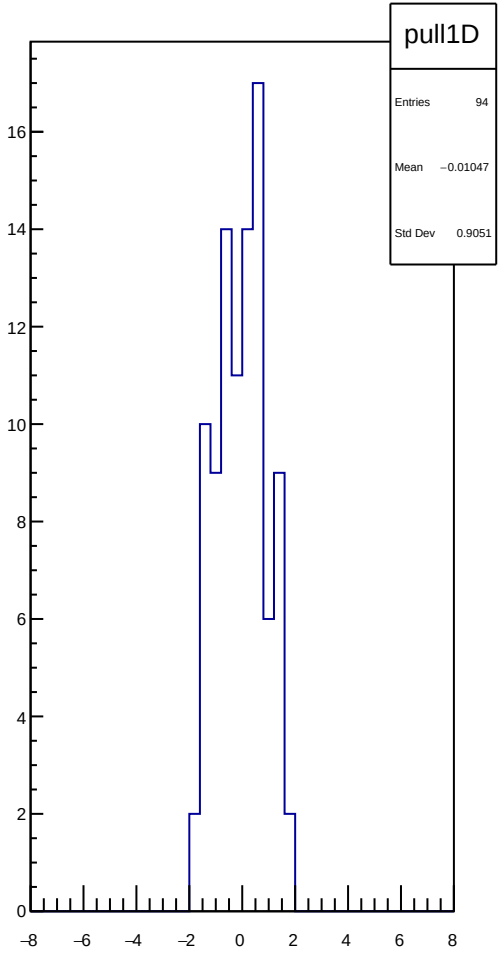

eigen_dit_asym_atr_avg_rms vs run
χ² / ndf 2070 / 93
p0 1908 ± 1.416
2200
2100
2000
1900
1800

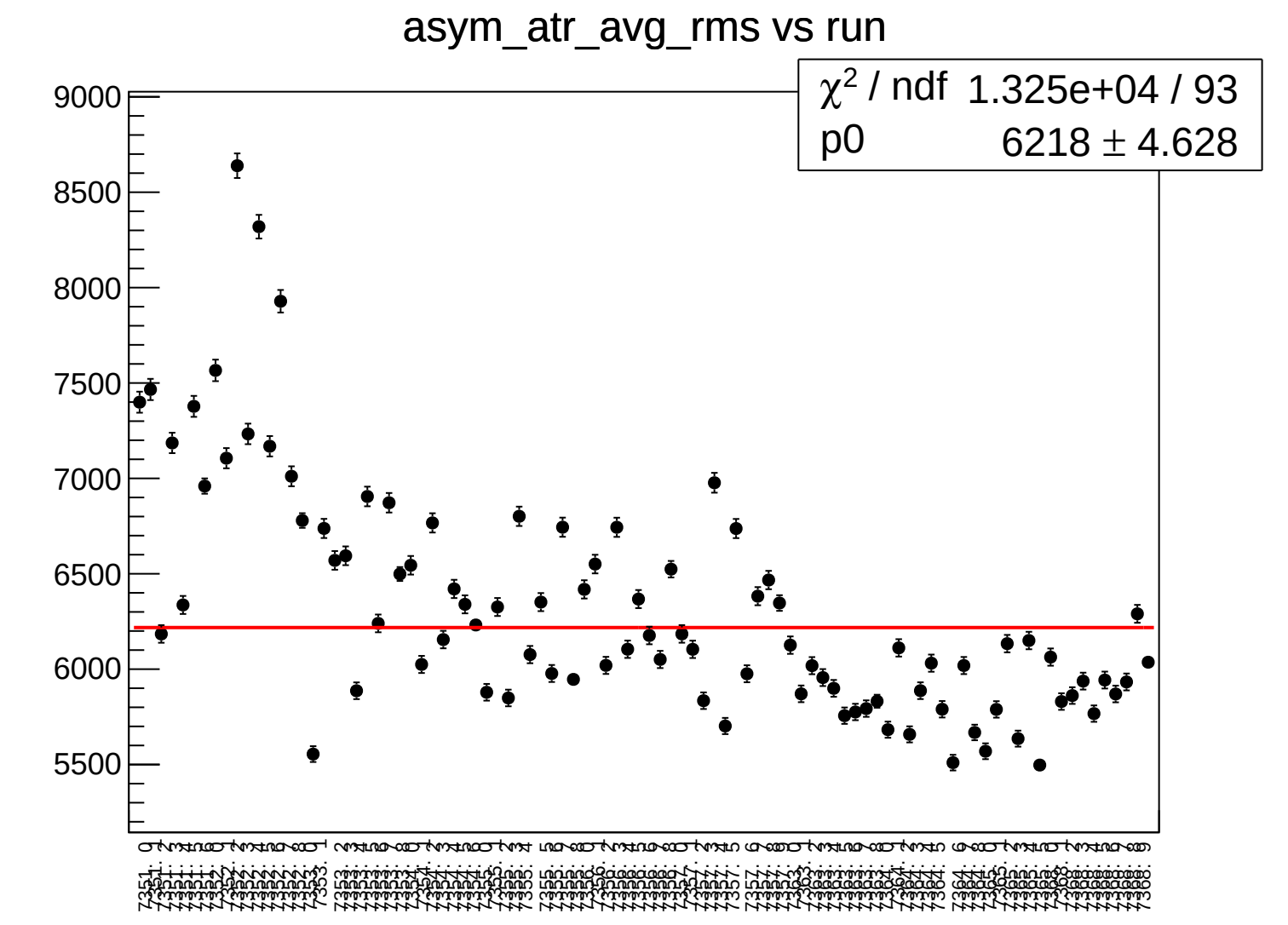

asym_atr_avg_eigen_dit_correction_mean vs run
χ² / ndf 72.65 / 93
p0 6287 ± 6330
×10³
pull
Entries 94
Mean −82.83
Std Dev 0

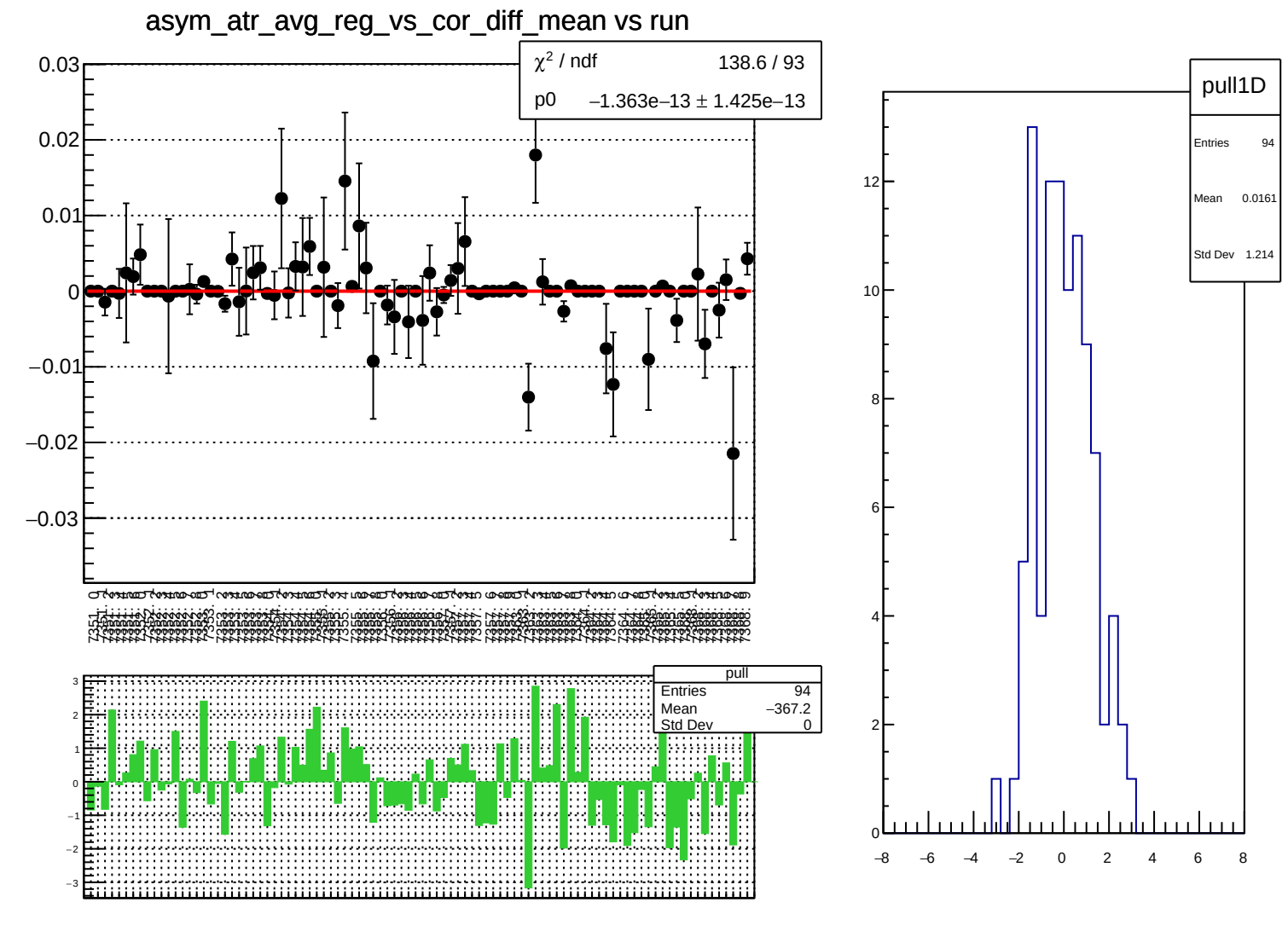

pull1D
Entries 94
Mean 0.01227
Std Dev 0.8791

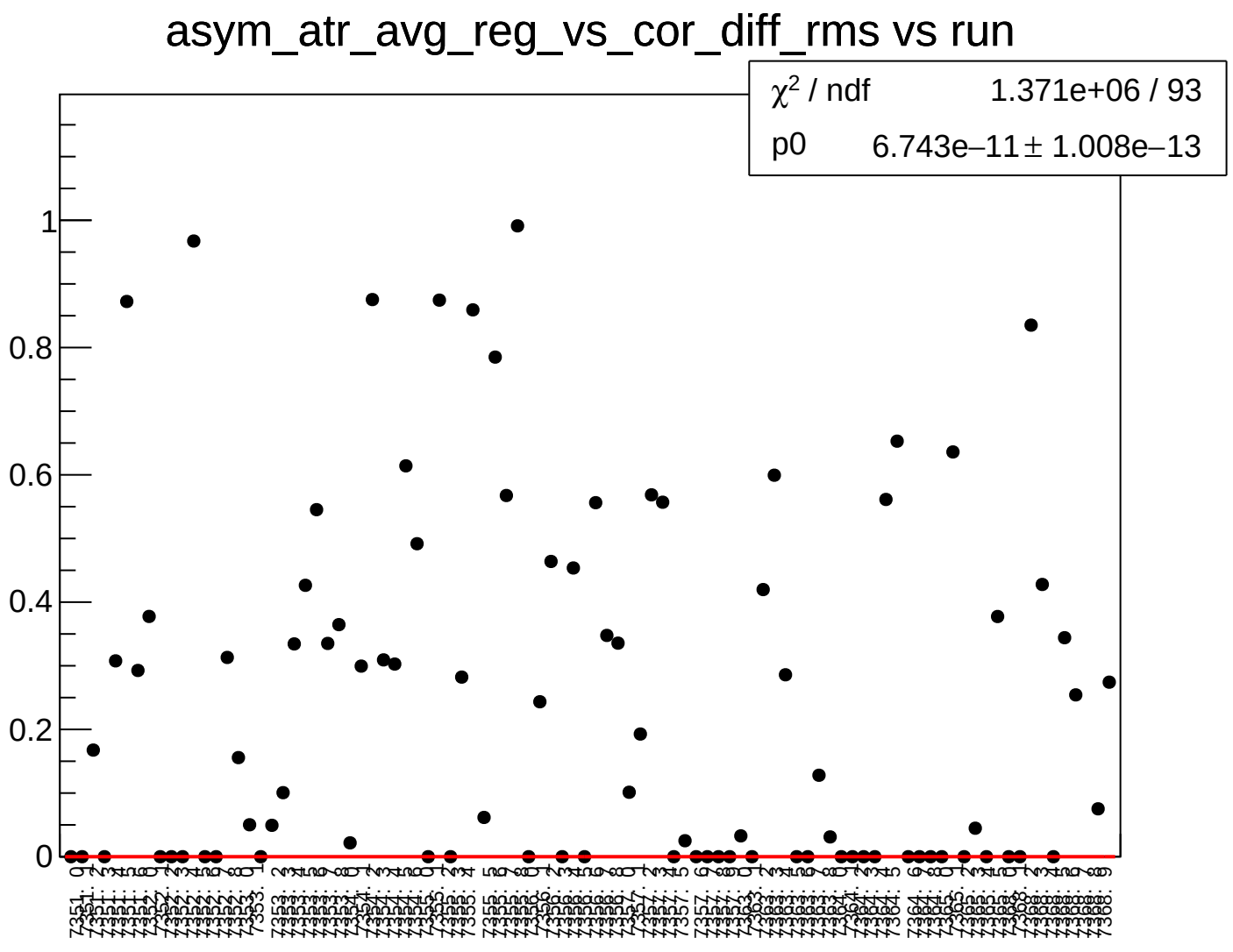

asym_atr_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.541e+04 / 93
p0 6010 ± 4.476
8500
8000
7500
7000
6500
6000
5500
5000

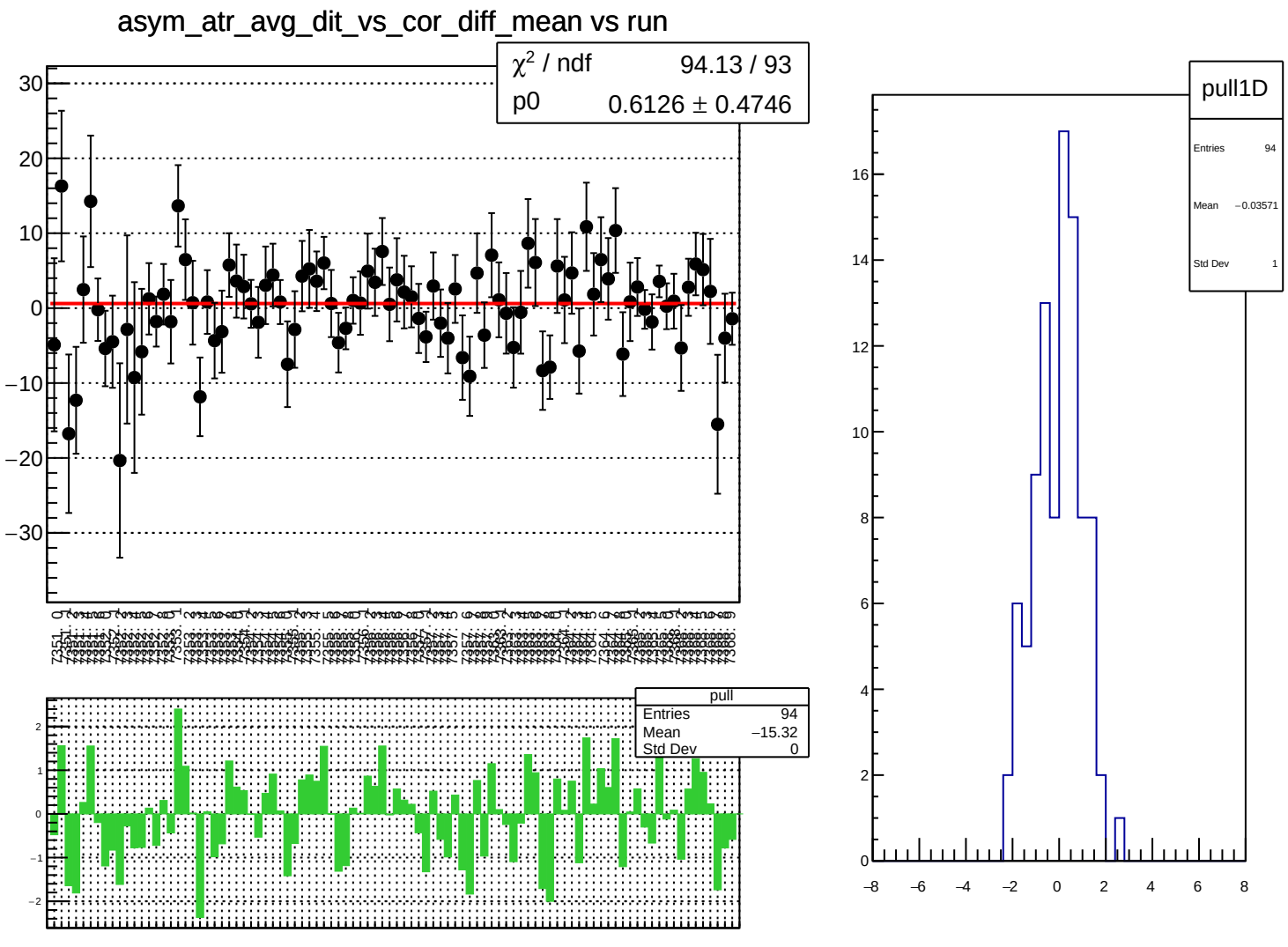

asym_atr_avg_mean vs run
×10^3
χ² / ndf 77.02 / 93
p0 −6177 ± 6545
pull
Entries 94
Mean −177.7
Std Dev 0

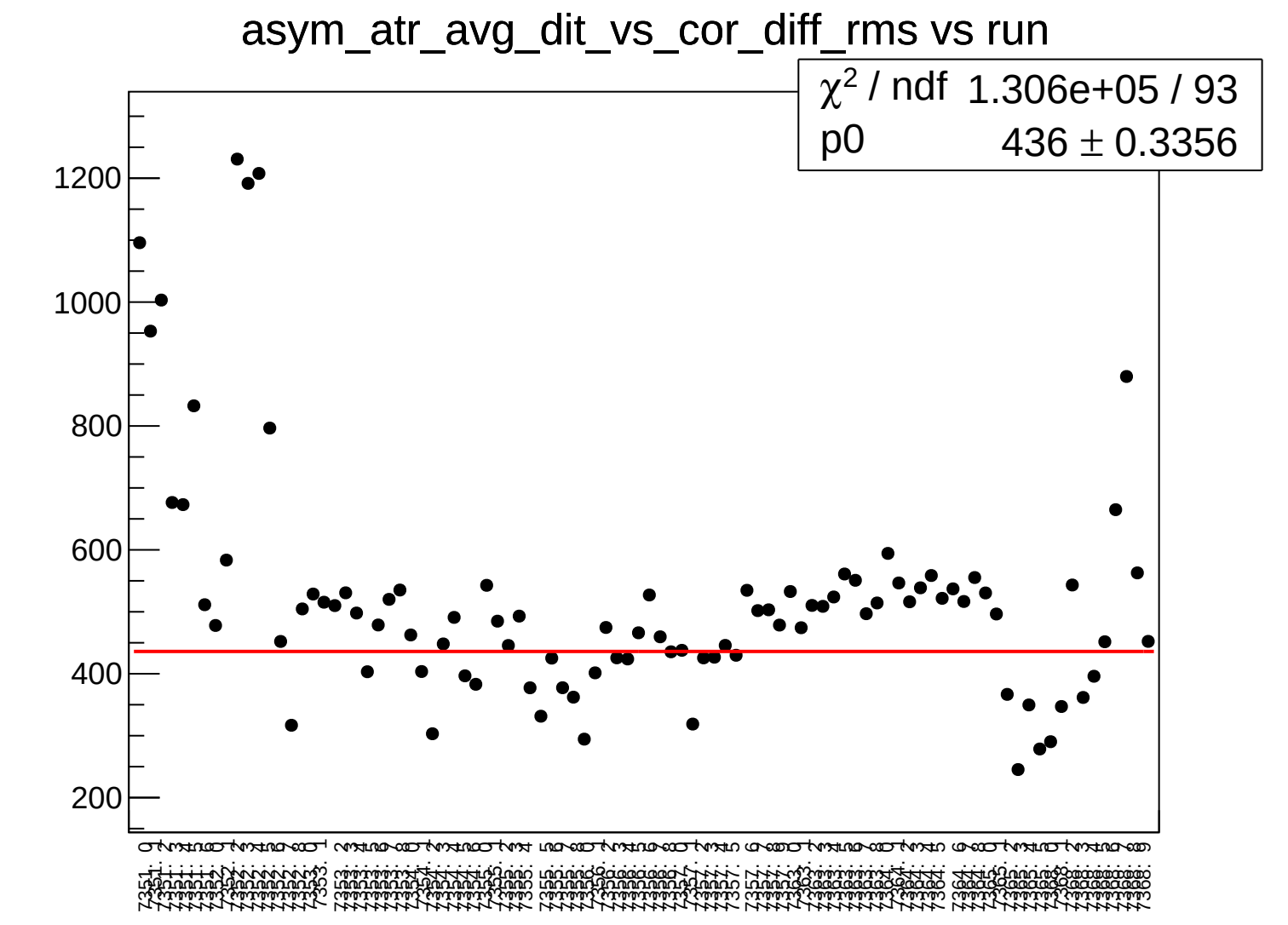

pull1D
Entries 94
Mean −0.01047
Std Dev 0.9051

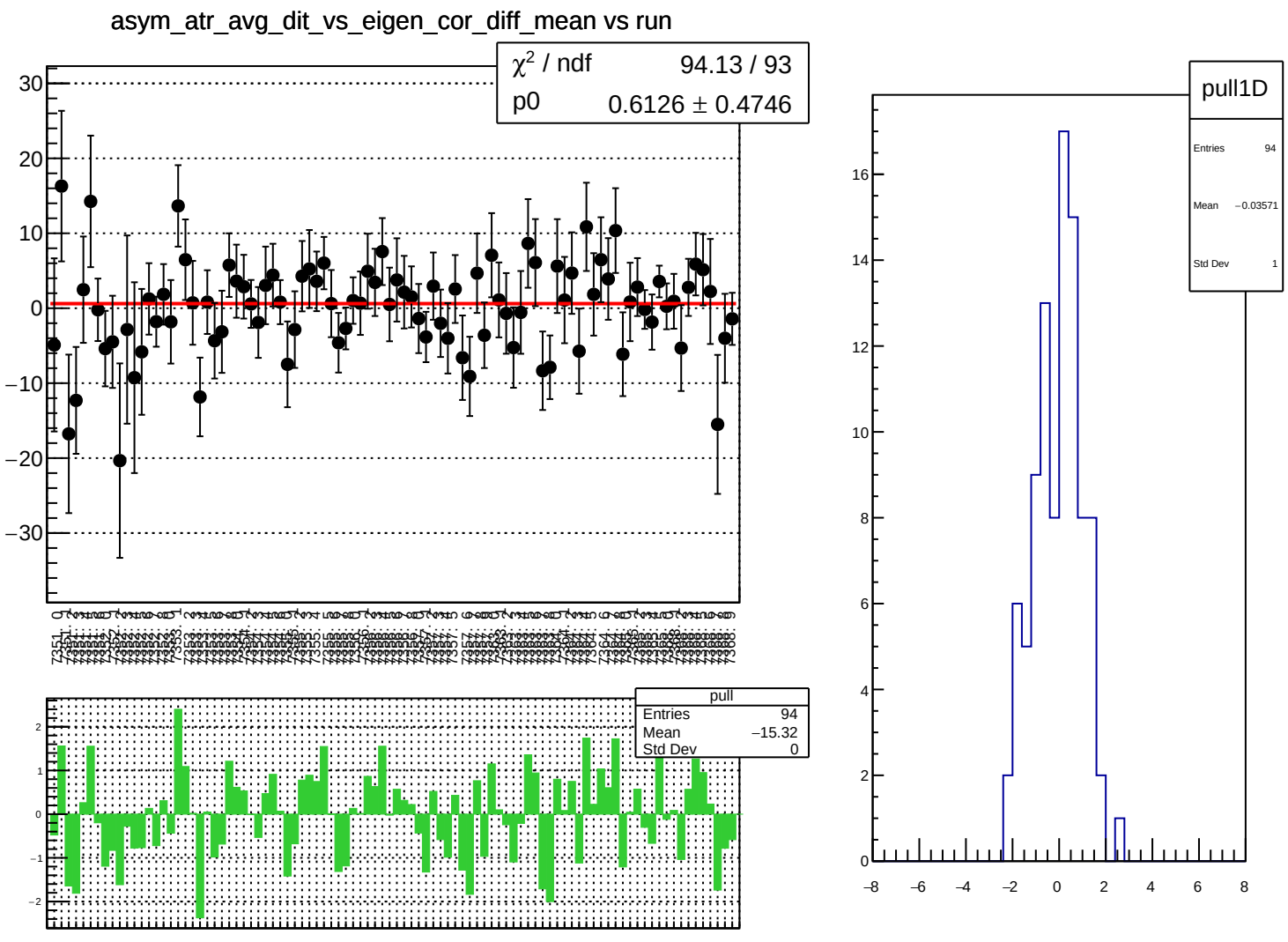

asym_atr_avg_rms vs run
χ^2 / ndf 1.325e+04 / 93
p0 6218 ± 4.628
9000
8500
8000
7500
7000
6500
6000
5500

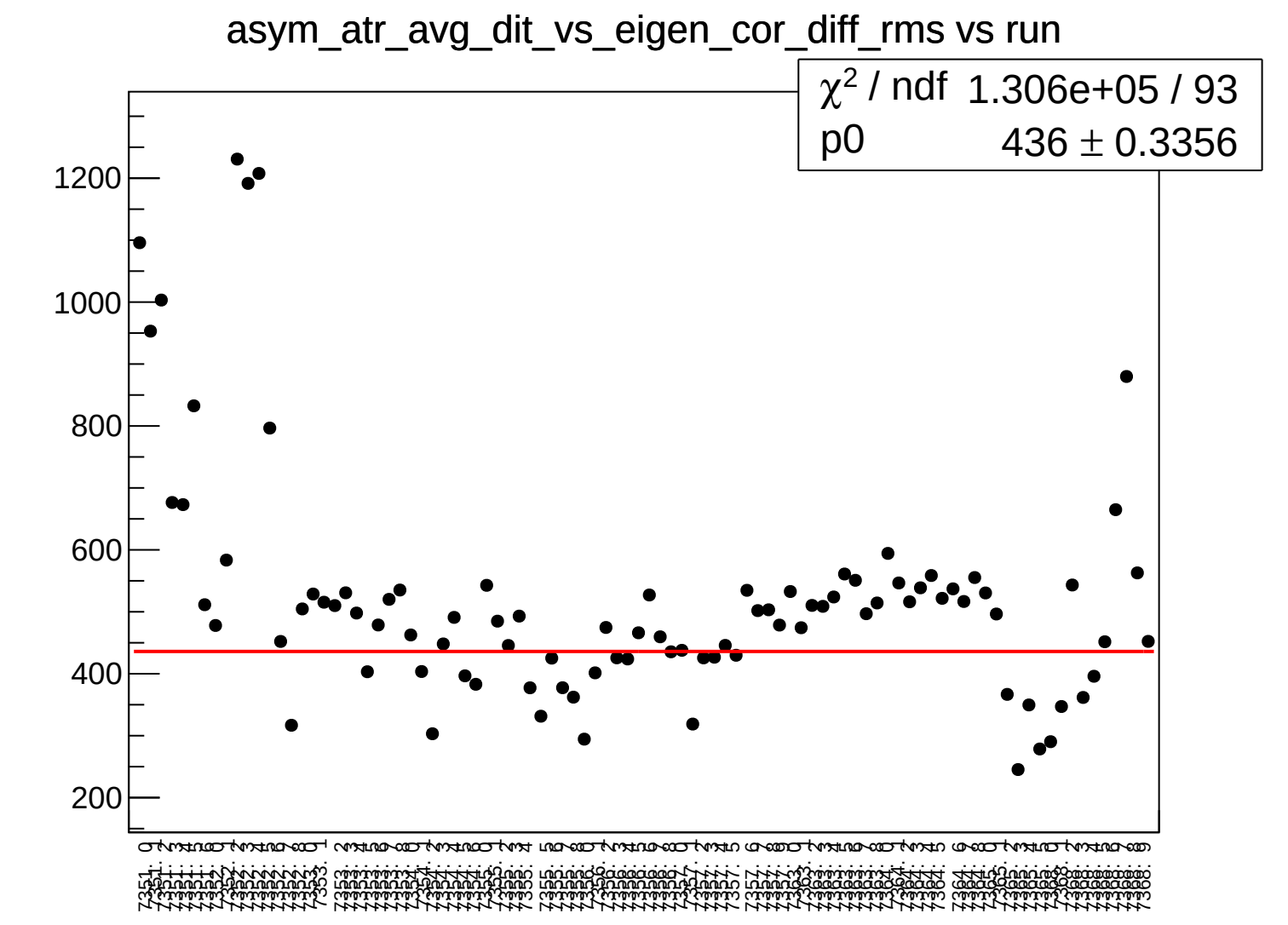

asym_atr_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 138.6 / 93
p0 −1.363e−13 ± 1.425e−13
pull
Entries 94
Mean −367.2
Std Dev 0
pull1D
Entries 94
Mean 0.0161
Std Dev 1.214

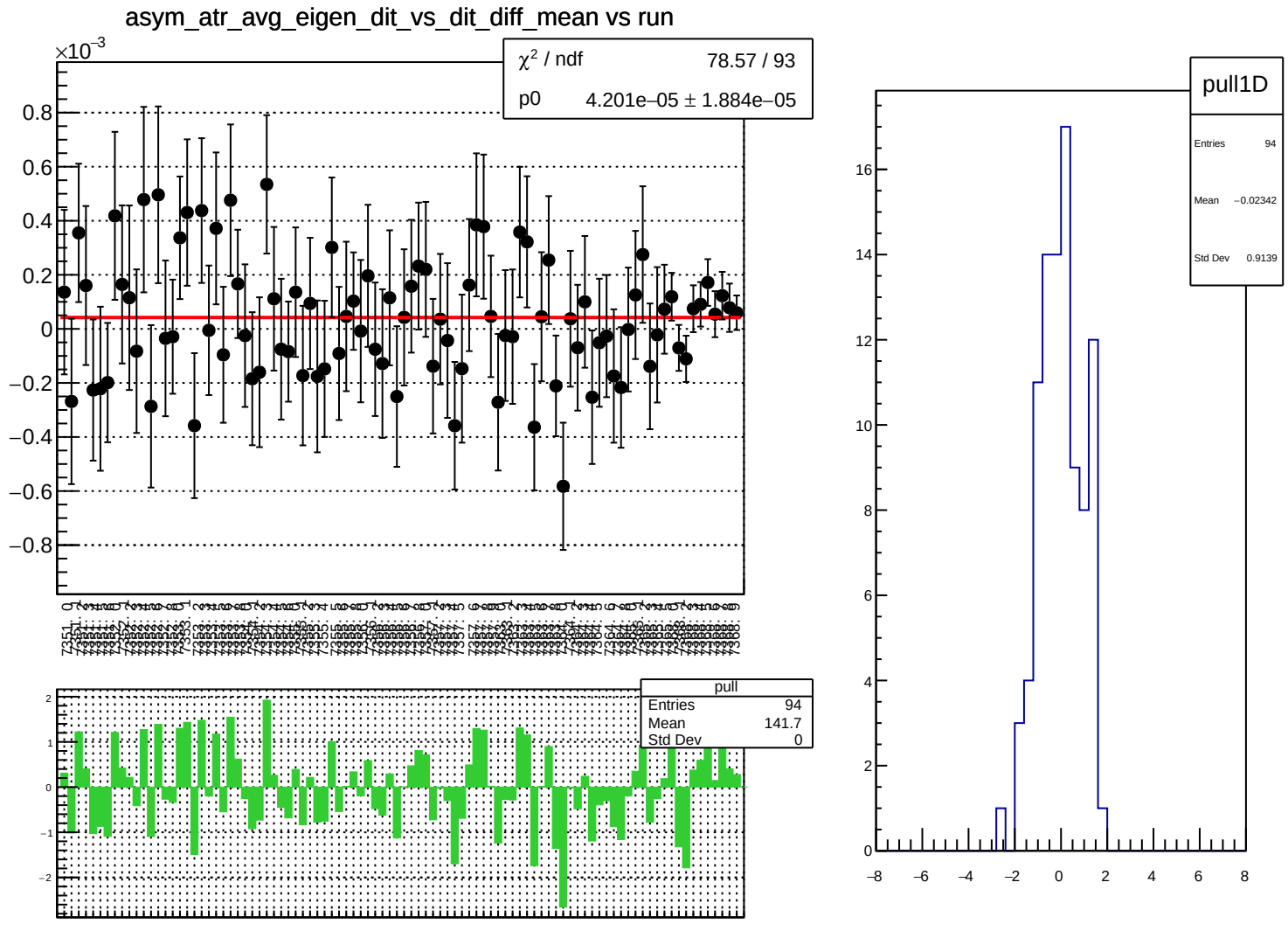

asym_atr_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.371e+06 / 93
p0 6.743e−11 ± 1.008e−13
1
0.8
0.6
0.4
0.2
0

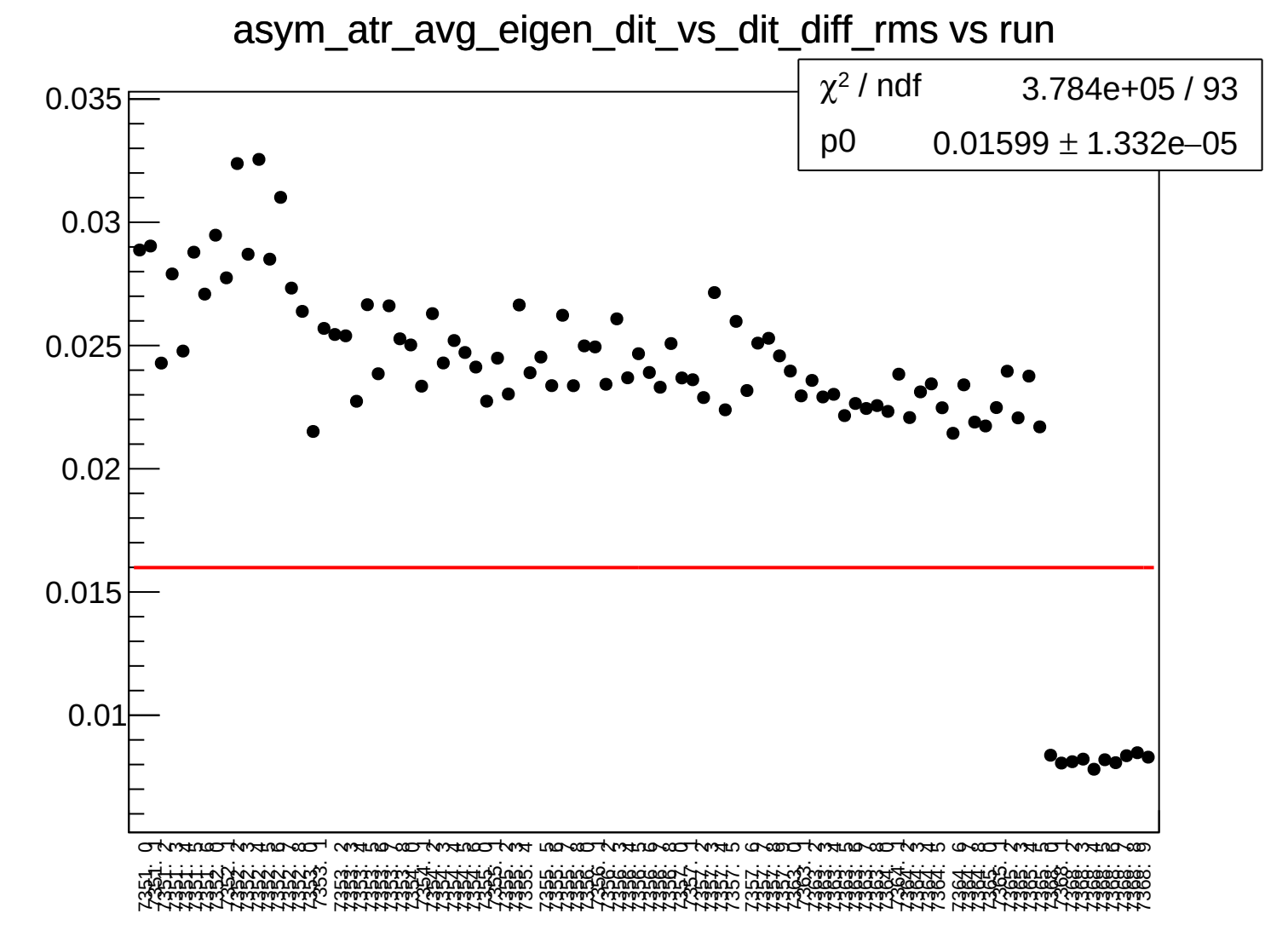

asym_atr_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 94.13 / 93
p0 0.6126 ± 0.4746
pull
Entries 94
Mean −15.32
Std Dev 0
pull1D
Entries 94
Mean −0.03571
Std Dev 1

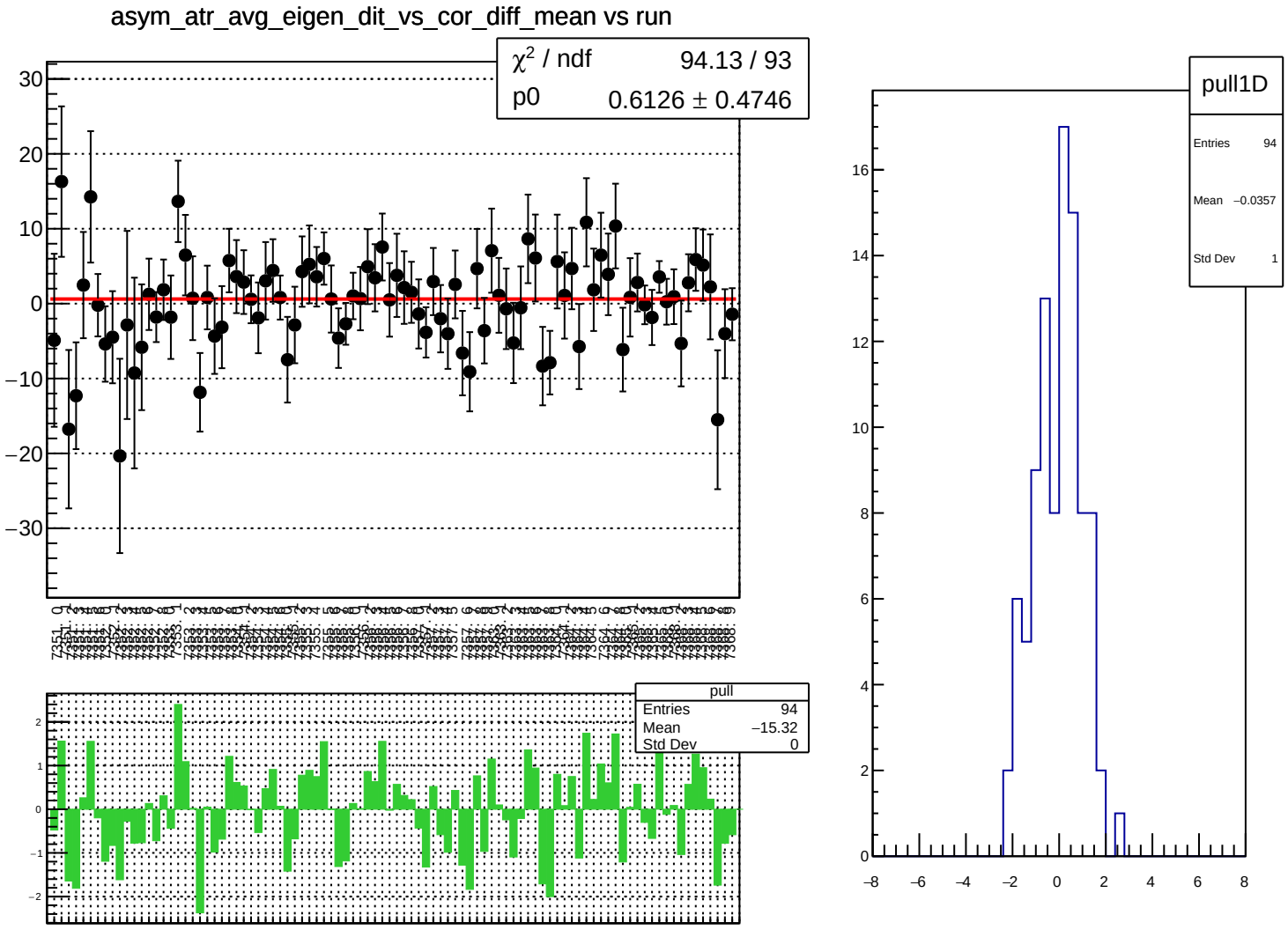

asym_atr_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.306e+05 / 93
p0 436 ± 0.3356
1200
1000
800
600
400
200

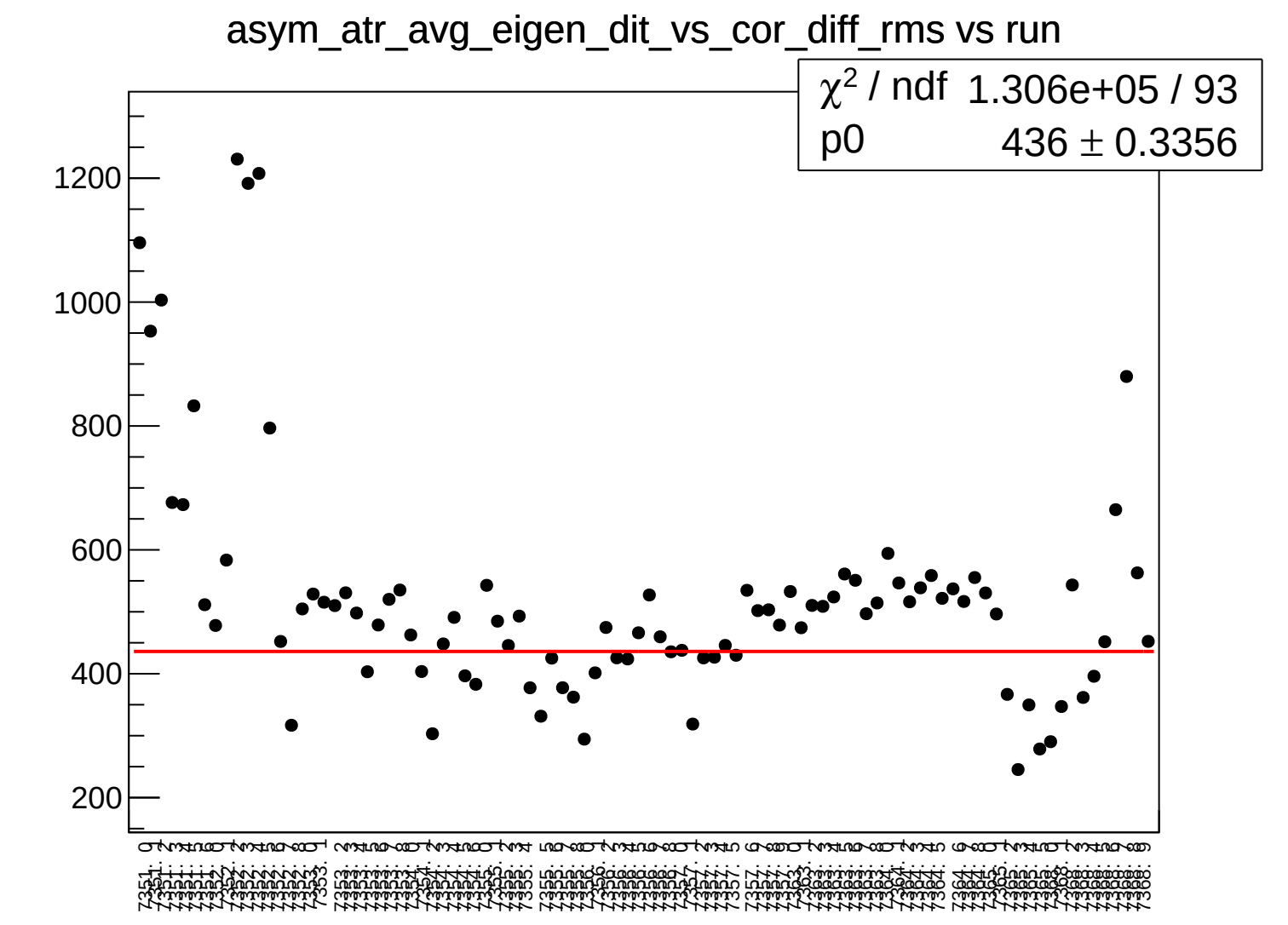

asym_atr_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.13 / 93
p0 0.6126 ± 0.4746
pull
Entries 94
Mean −15.32
Std Dev 0
pull1D
Entries 94
Mean −0.03571
Std Dev 1

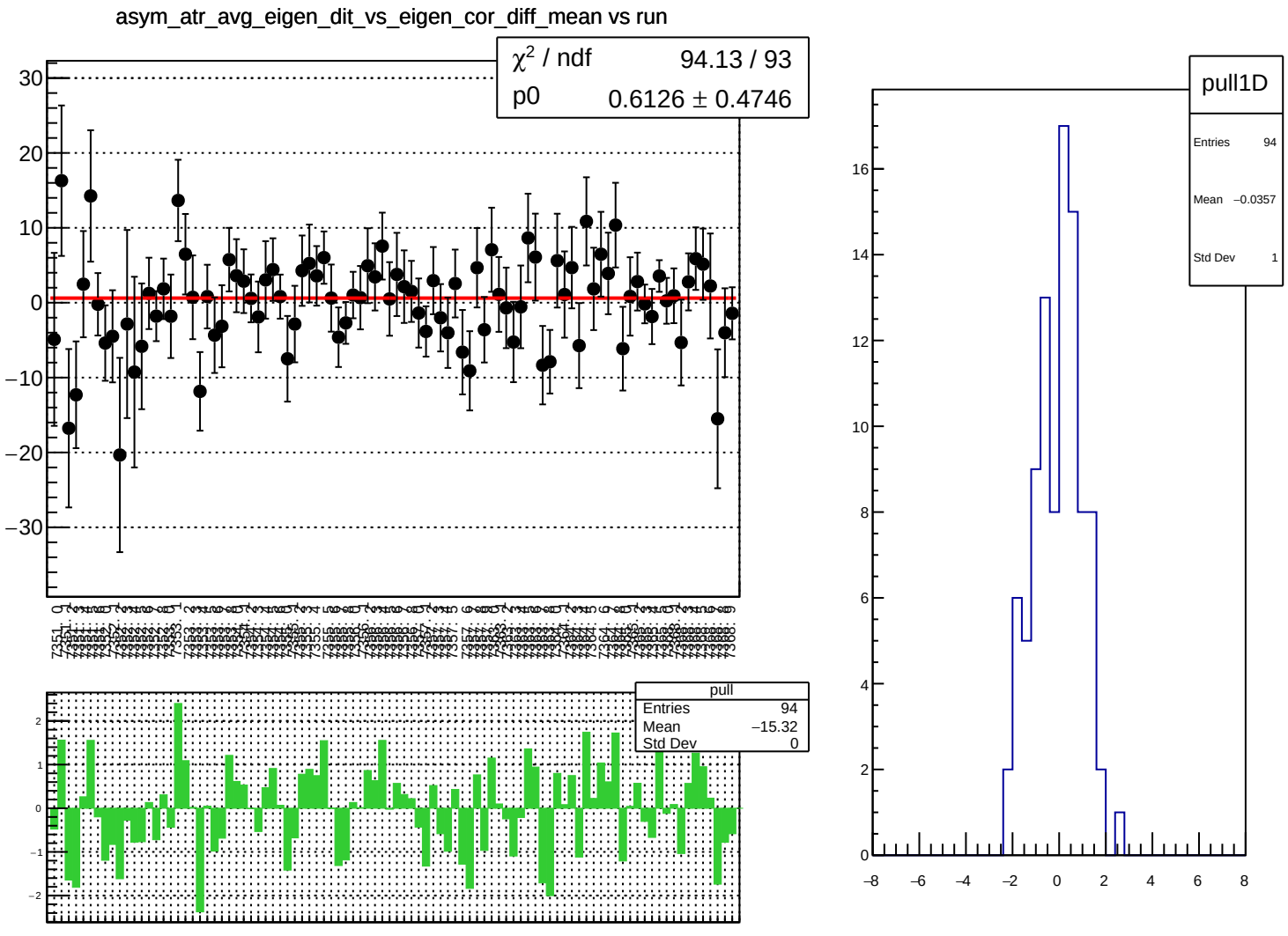

asym_atr_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.306e+05 / 93
p0 436 ± 0.3356
1200
1000
800
600
400
200

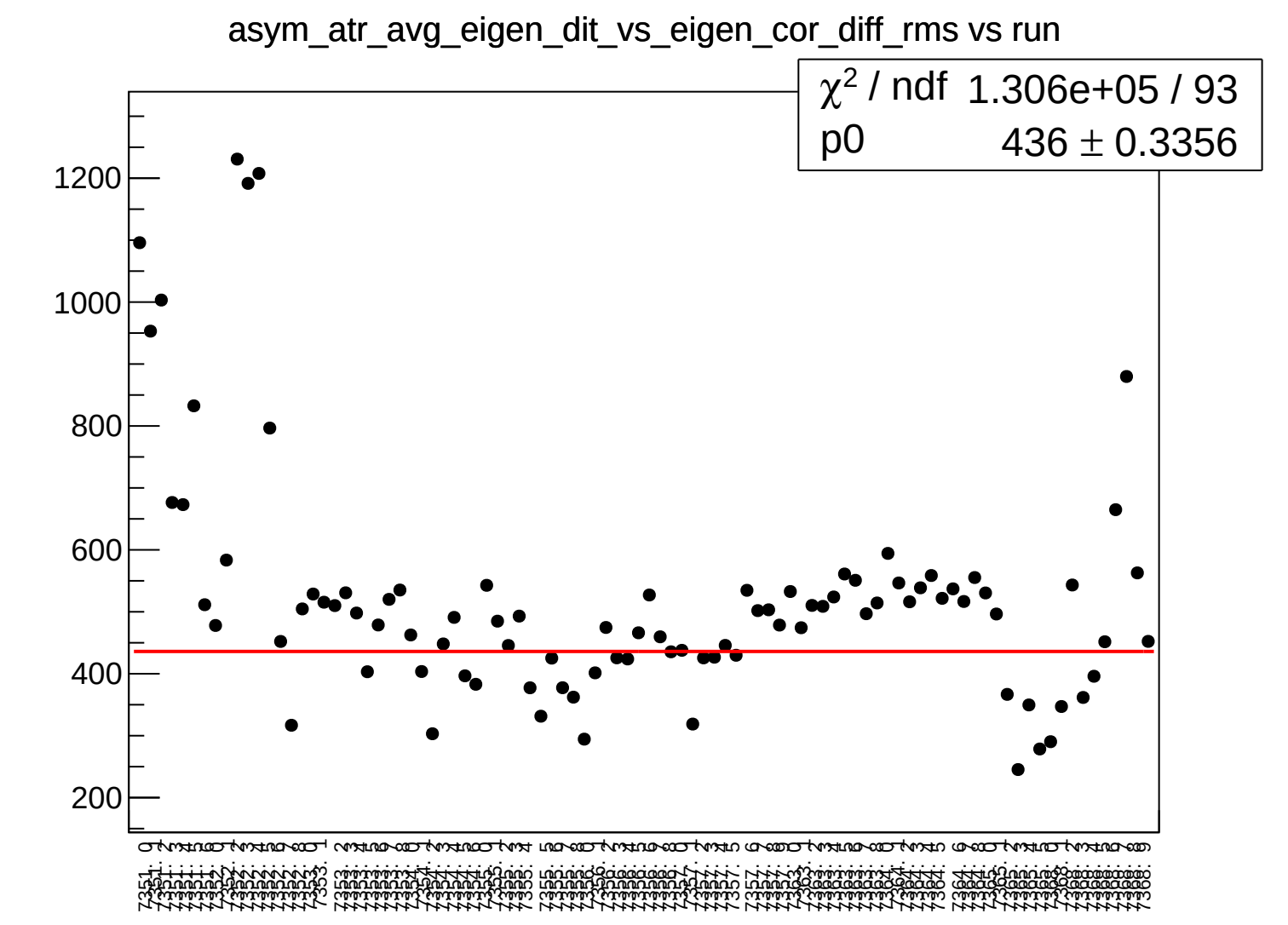

asym_atr_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 78.57 / 93
p0 4.201e−05 ± 1.884e−05
pull
Entries 94
Mean 141.7
Std Dev 0
pull1D
Entries 94
Mean −0.02342
Std Dev 0.9139

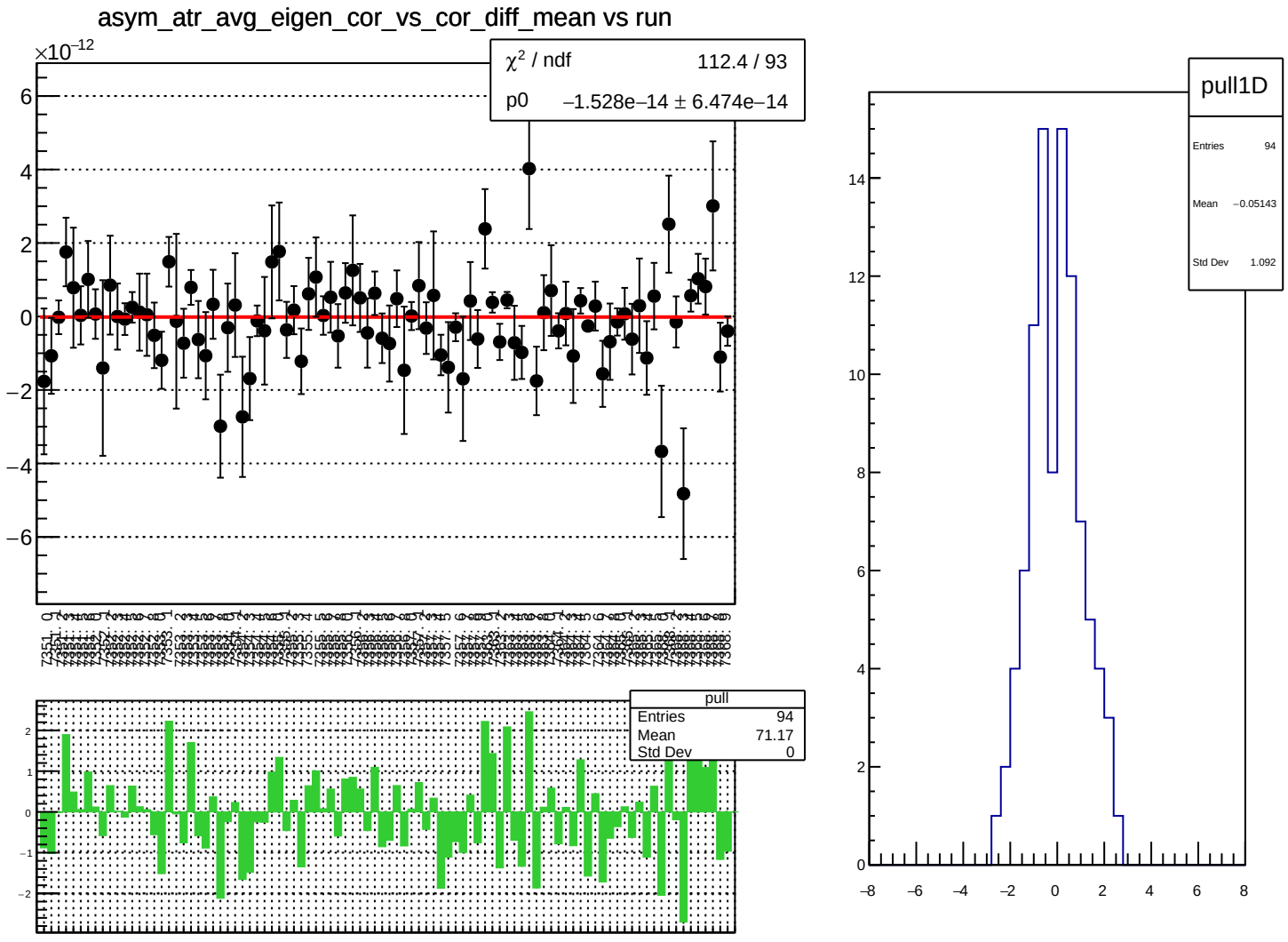

asym_atr_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.784e+05 / 93
p0 0.01599 ± 1.332e−05
0.035
0.03
0.025
0.02
0.015
0.01

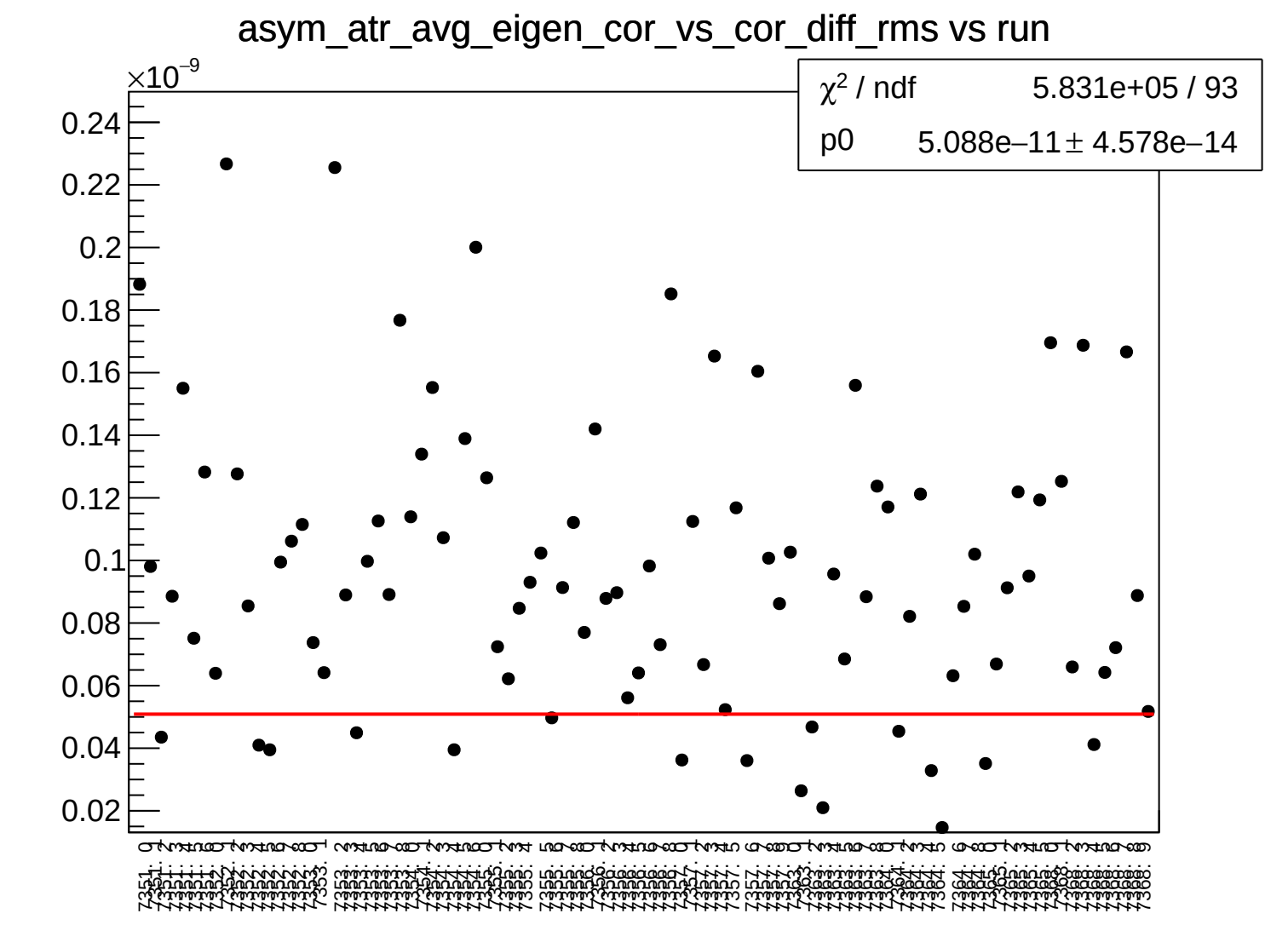

asym_atr_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.13 / 93
p0 0.6126 ± 0.4746
pull
Entries 94
Mean −15.32
Std Dev 0
pull1D
Entries 94
Mean −0.0357
Std Dev 1

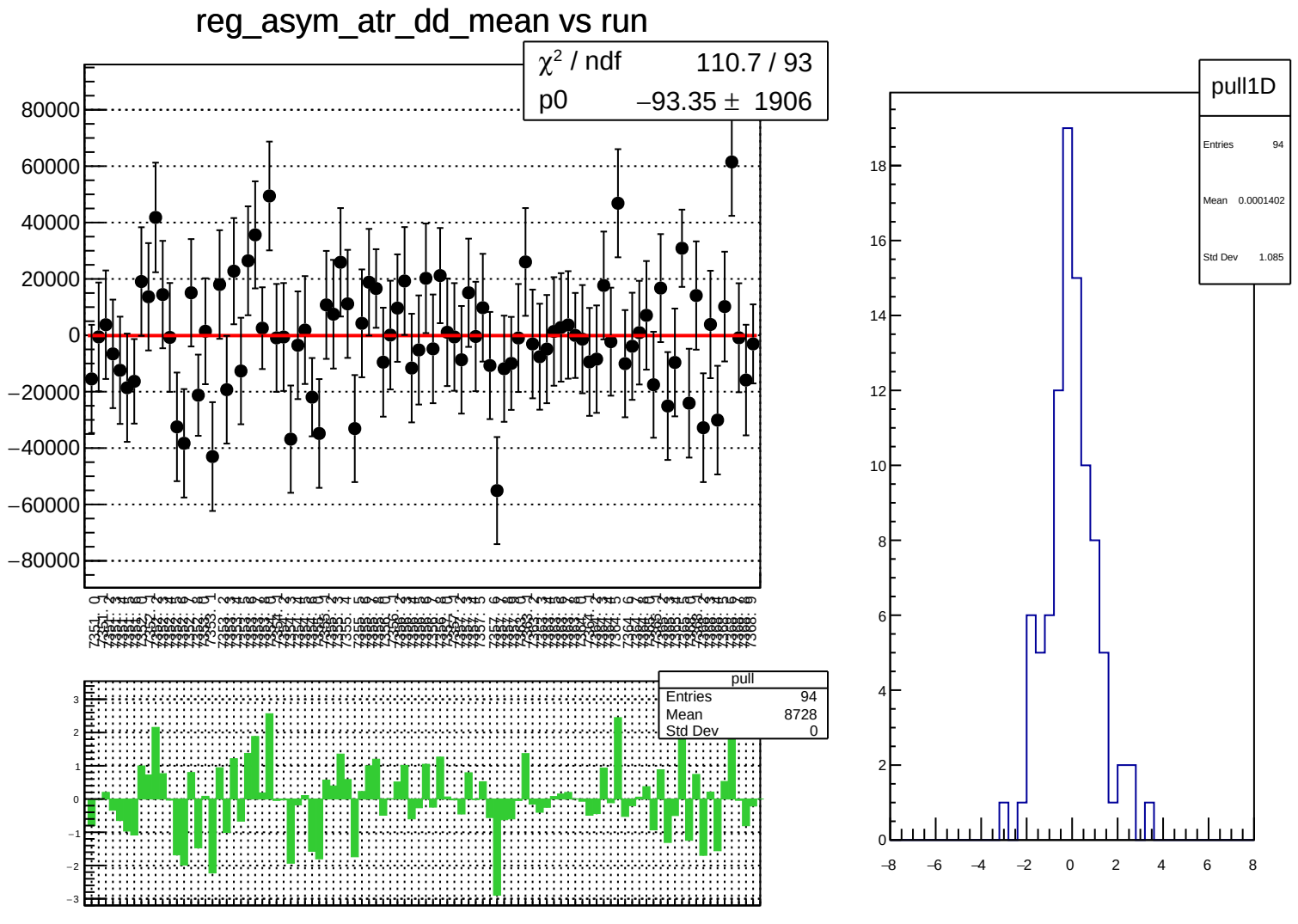

asym_atr_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.306e+05 / 93
p0 436 ± 0.3356
1200
1000
800
600
400
200

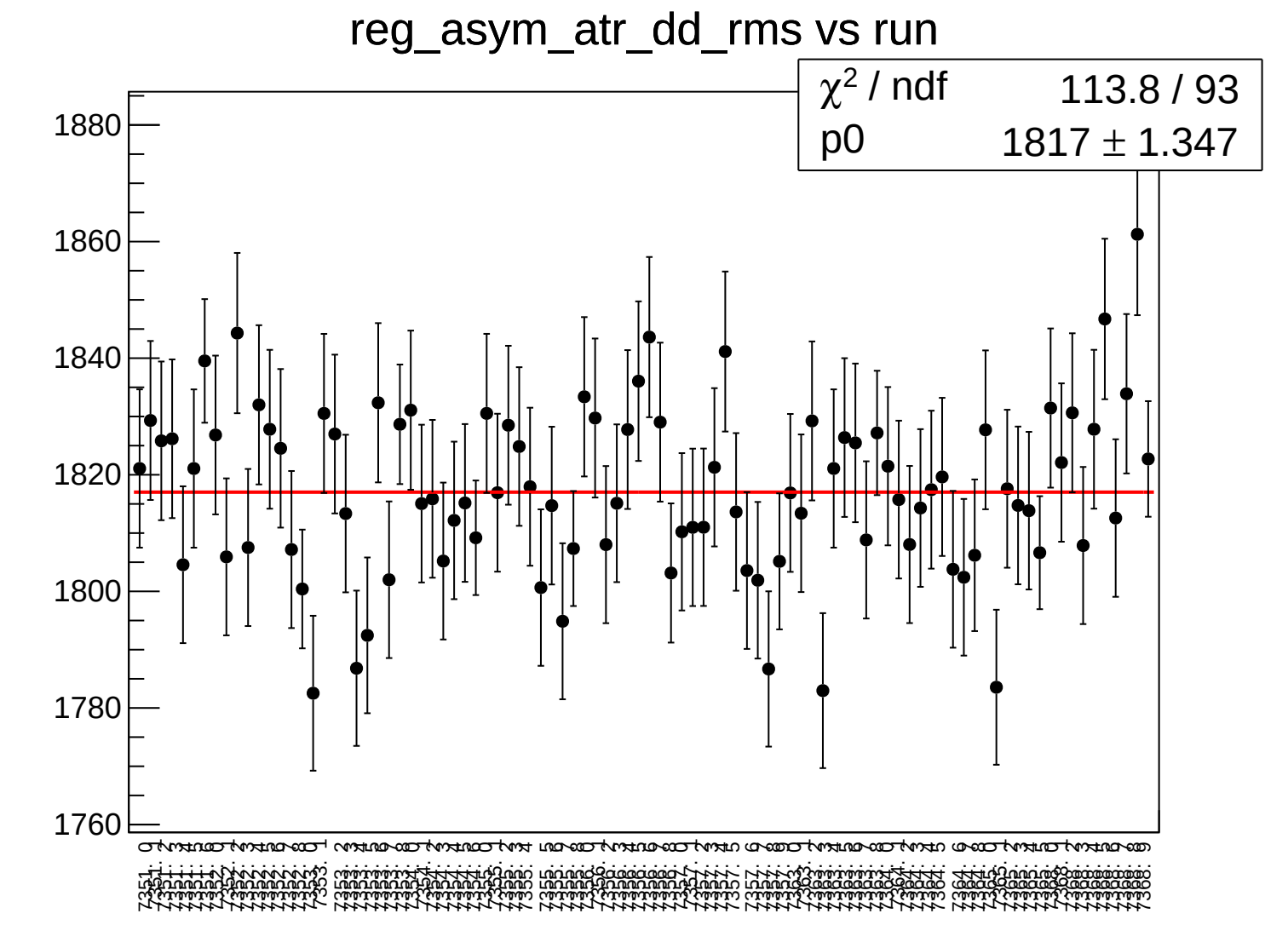

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.13 / 93
p0 0.6126 ± 0.4746
pull
Entries 94
Mean −15.32
Std Dev 0
pull1D
Entries 94
Mean −0.0357
Std Dev 1

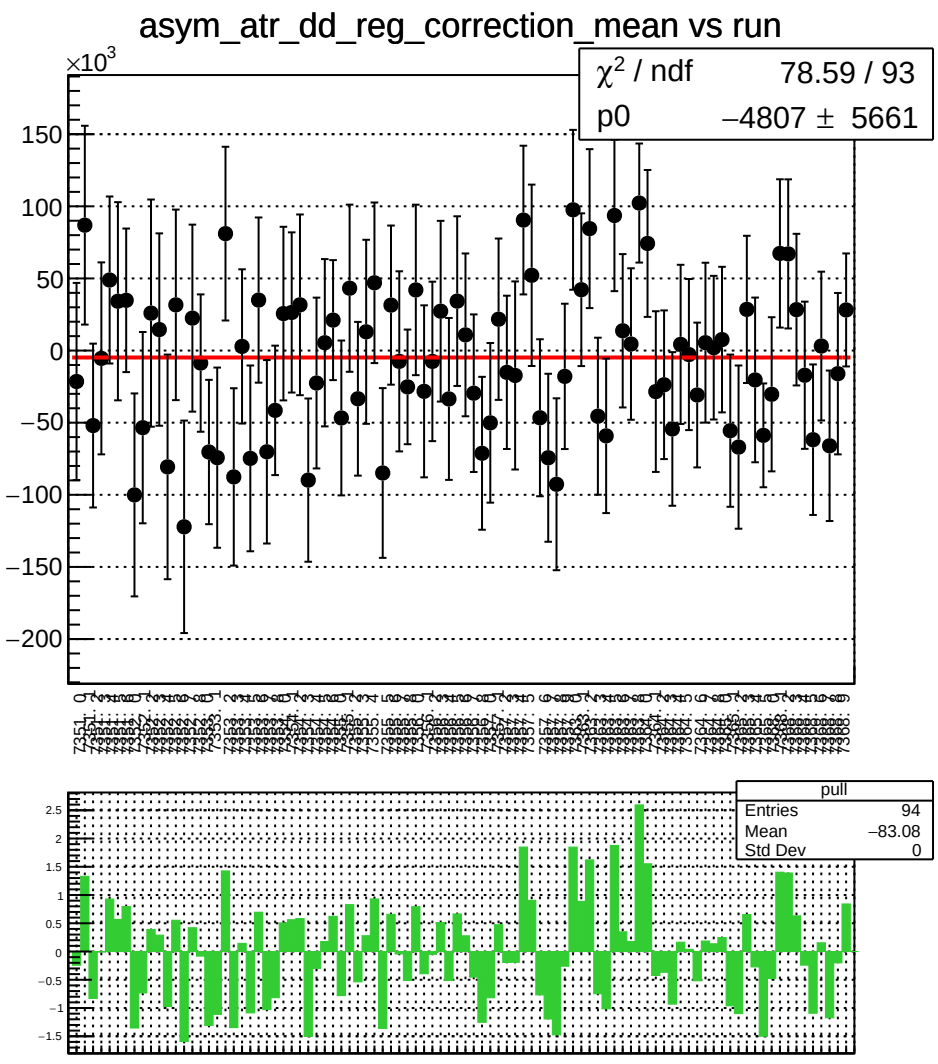

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.306e+05 / 93
p0 436 ± 0.3356
1200
1000
800
600
400
200

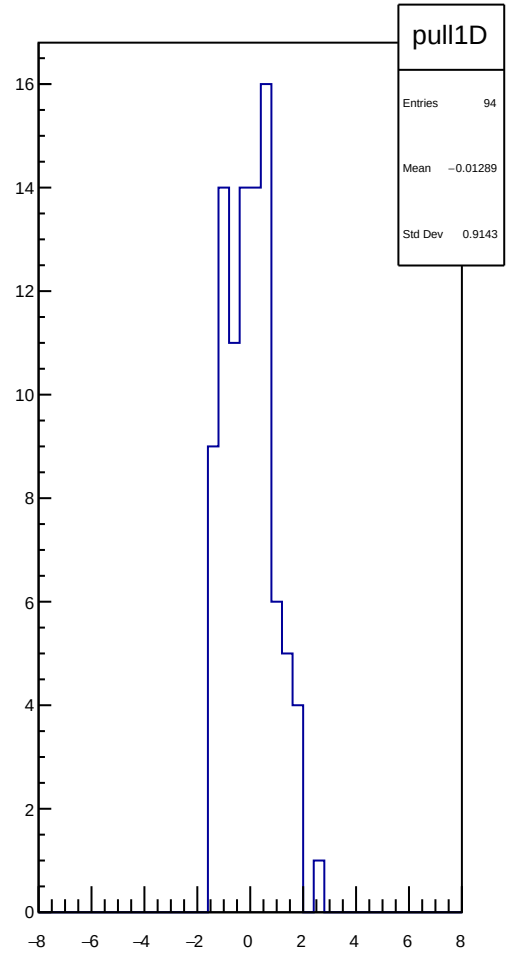

asym_atr_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 112.4 / 93
p0 −1.528e−14 ± 6.474e−14
pull
Entries 94
Mean 71.17
Std Dev 0
pull1D
Entries 94
Mean −0.05143
Std Dev 1.092

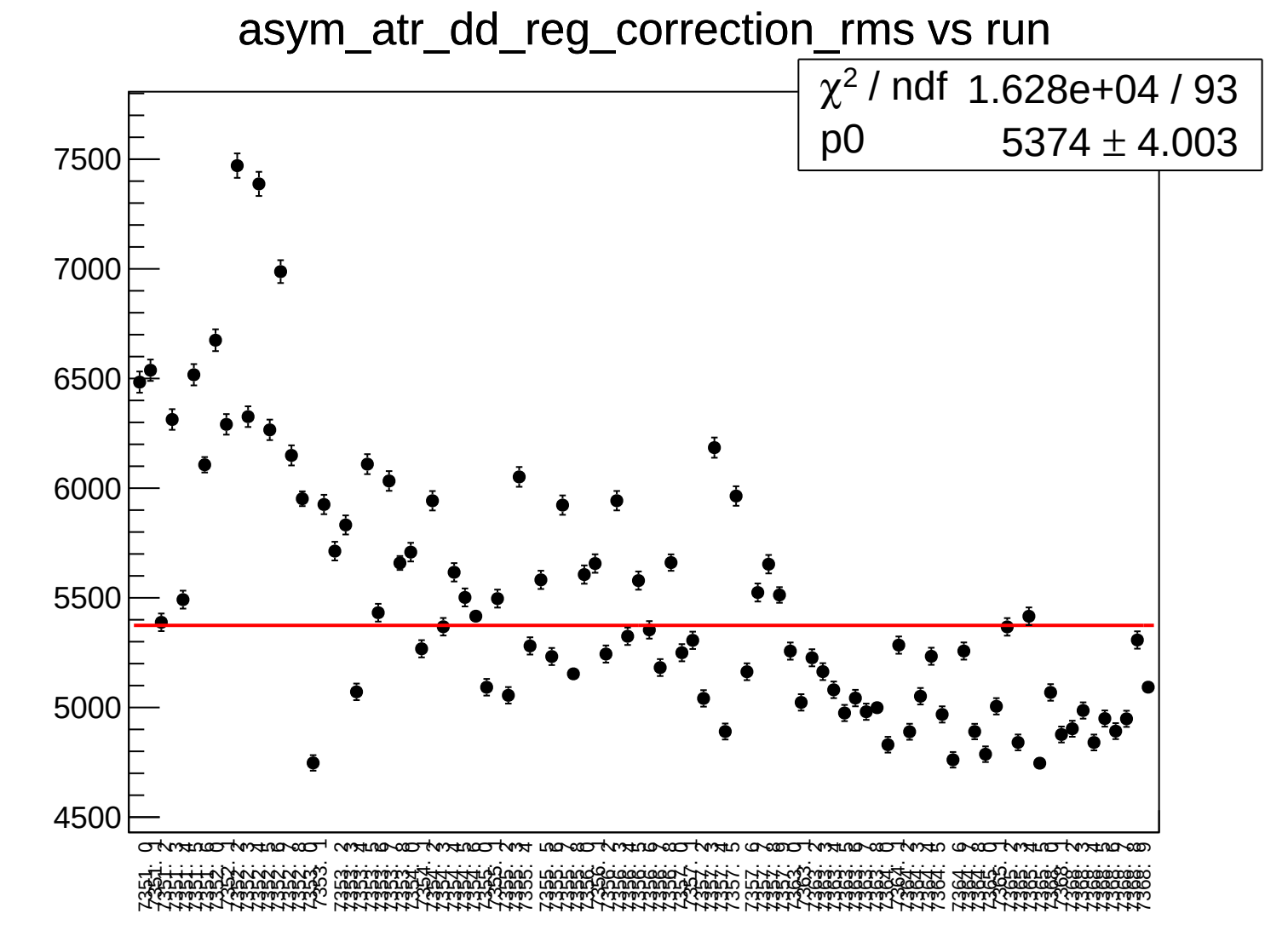

asym_atr_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.831e+05 / 93
p0 5.088e−11 ± 4.578e−14
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

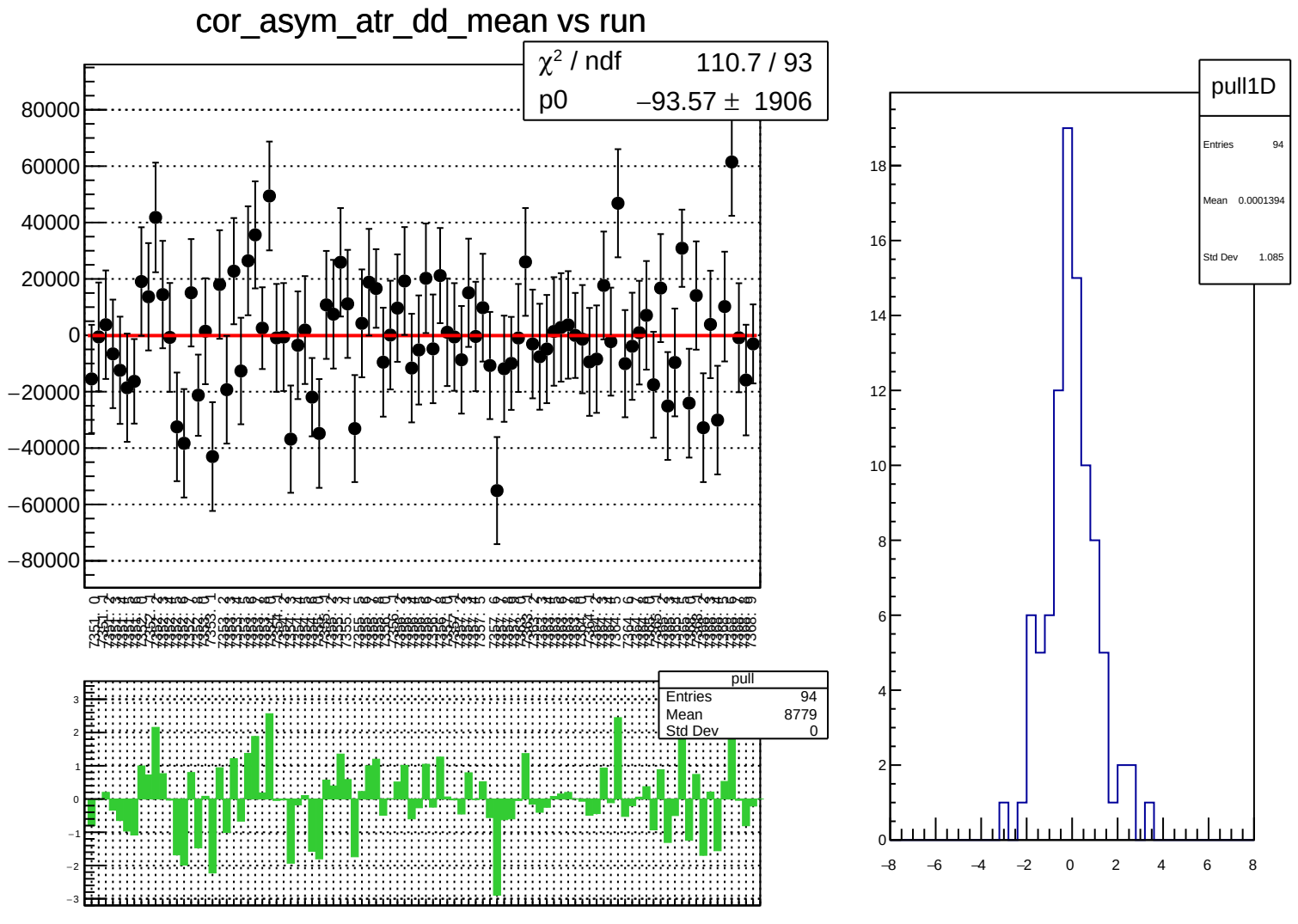

reg_asym_atr_dd_mean vs run
χ² / ndf 110.7 / 93
p0 −93.35 ± 1906
pull
Entries 94
Mean 8728
Std Dev 0
pull1D
Entries 94
Mean 0.0001402
Std Dev 1.085

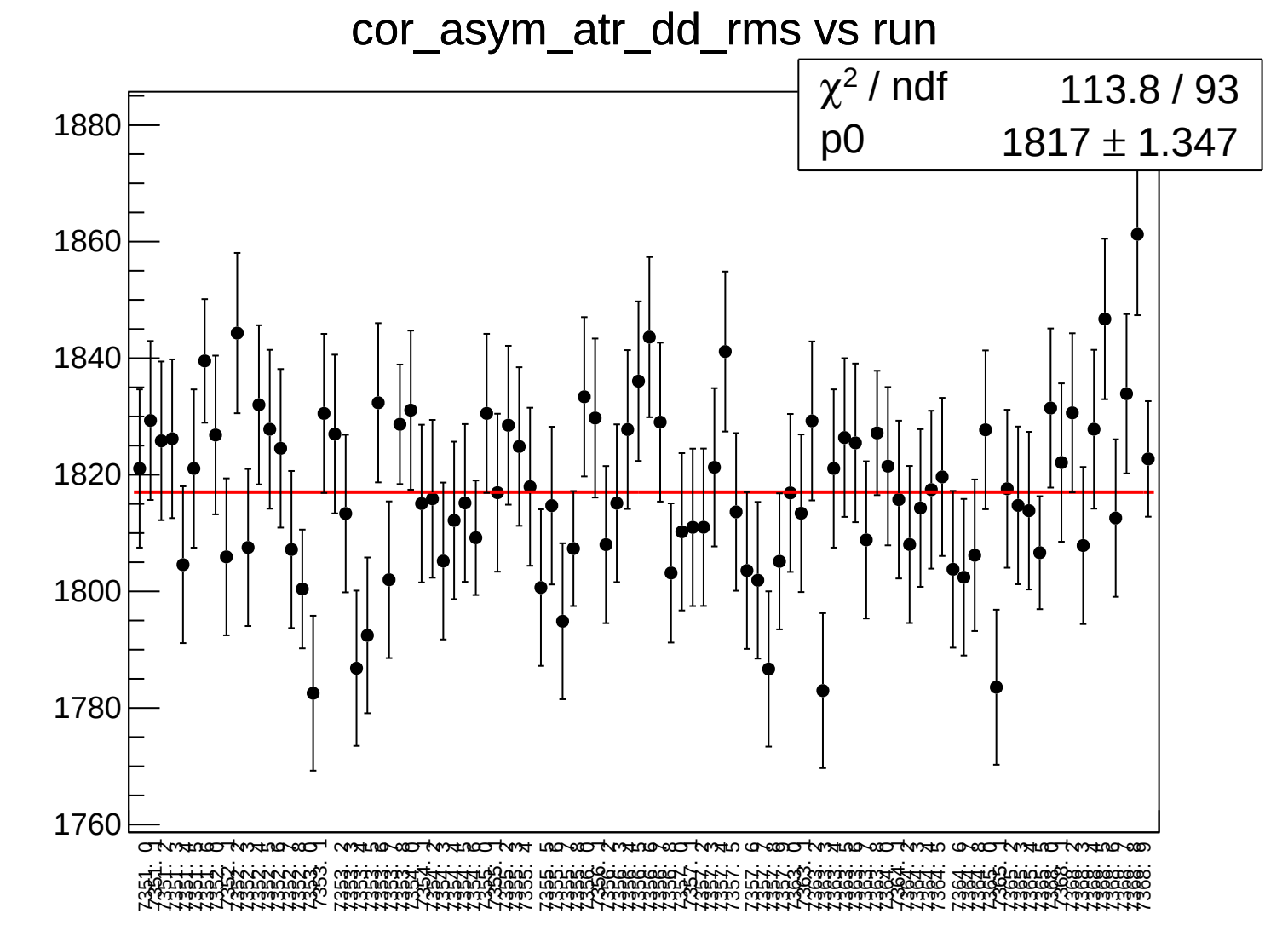

reg_asym_atr_dd_rms vs run
χ^2 / ndf 113.8 / 93
p0 1817 ± 1.347
1880
1860
1840
1820
1800
1780
1760

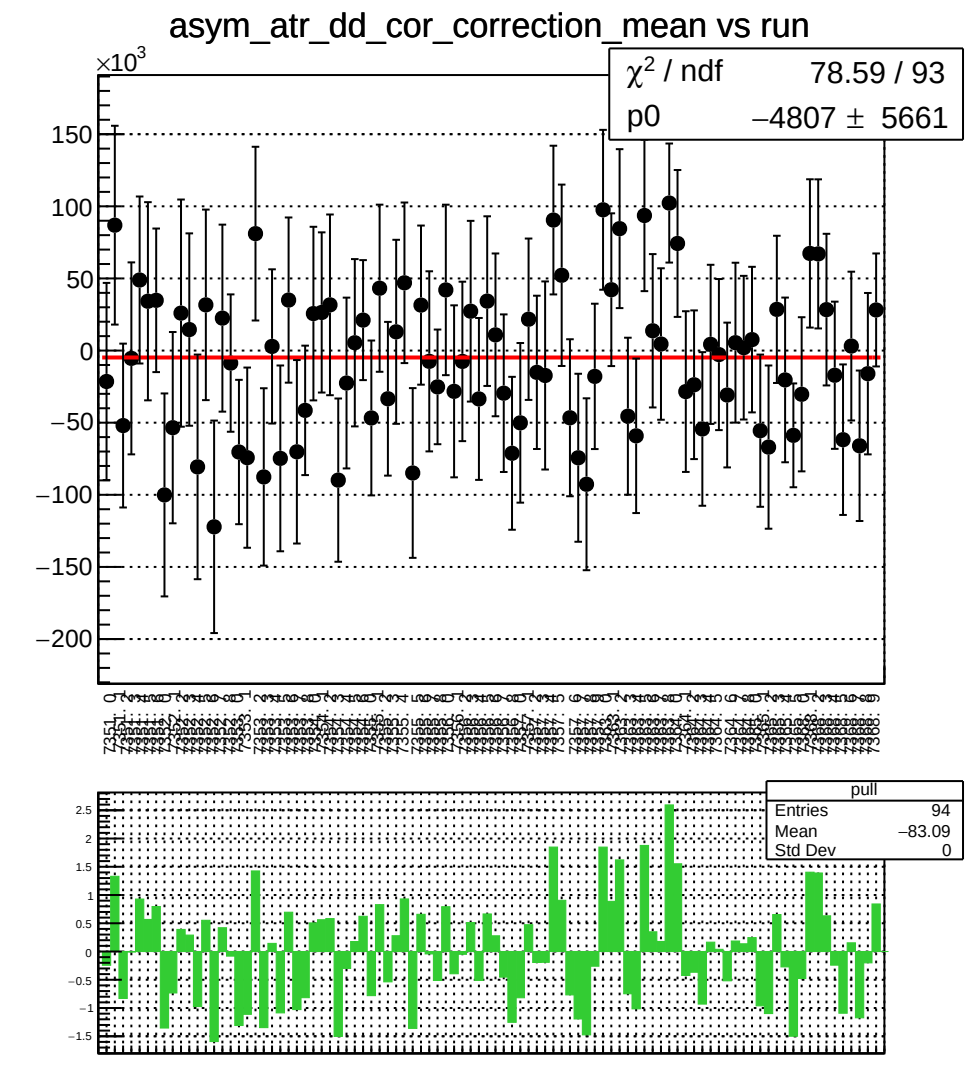

asym_atr_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 78.59 / 93
p0 −4807 ± 5661
150
100
50
0
−50
−100
−150
−200
pull
Entries 94
Mean −83.08
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

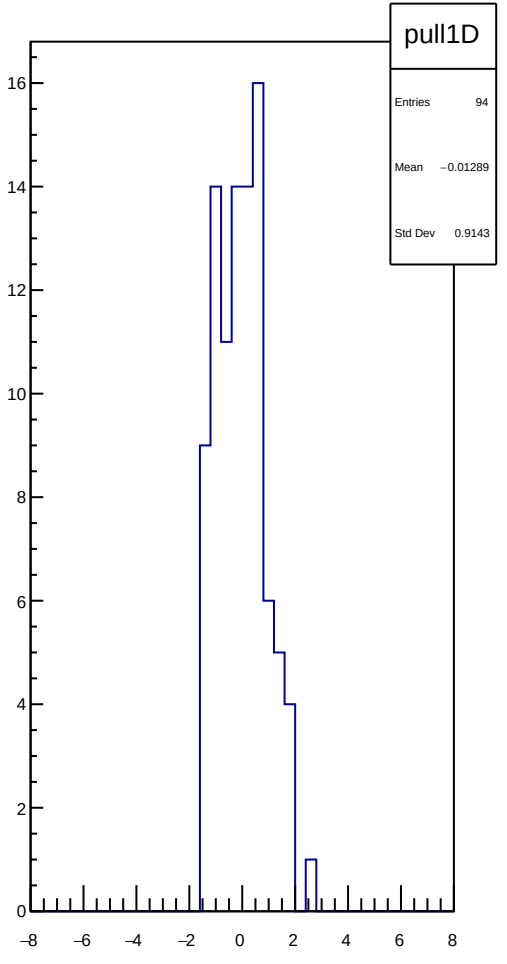

pull1D
Entries 94
Mean −0.01289
Std Dev 0.9143
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

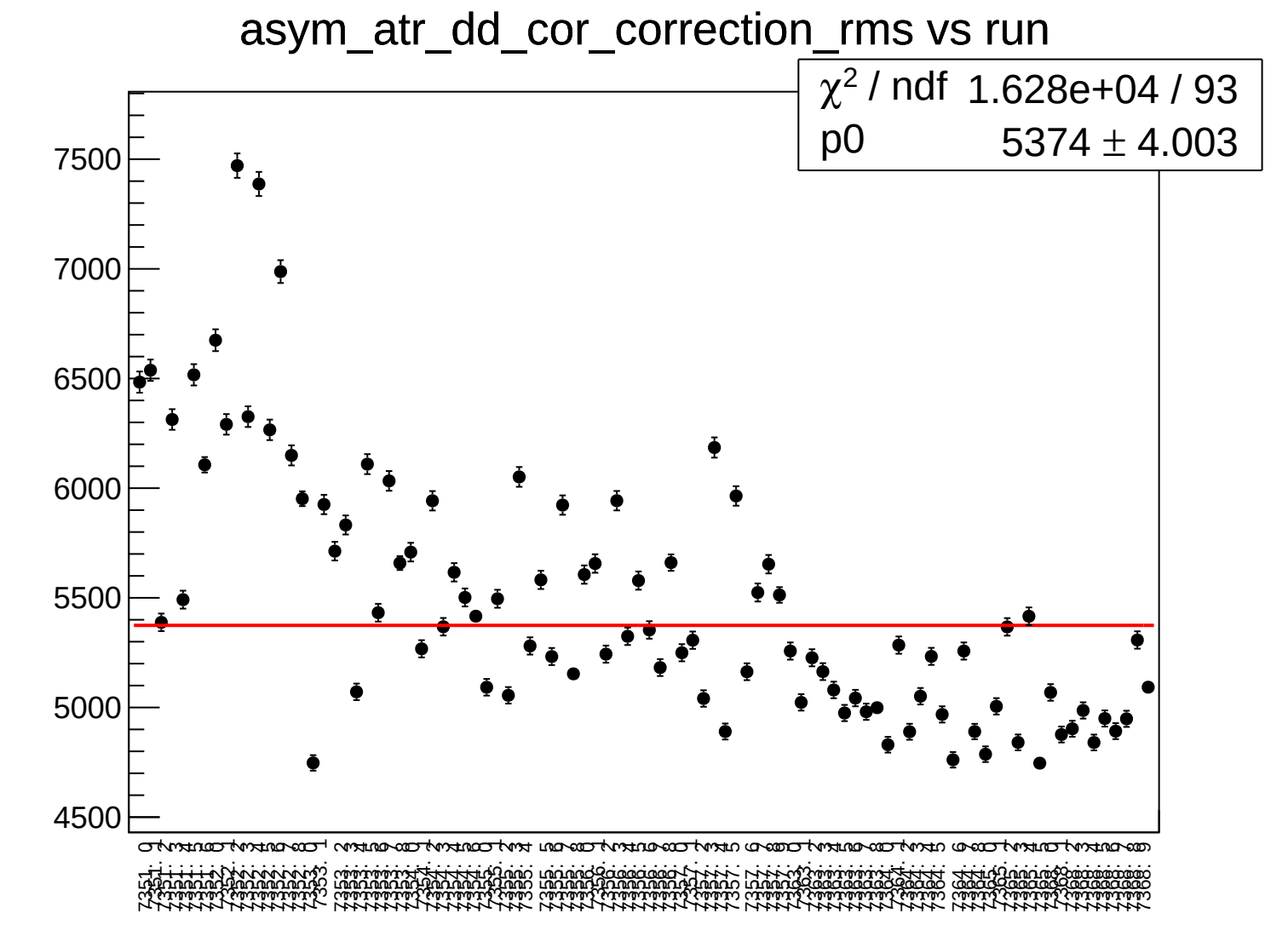

asym_atr_dd_reg_correction_rms vs run
χ² / ndf 1.628e+04 / 93
p0 5374 ± 4.003
7500
7000
6500
6000
5500
5000
4500

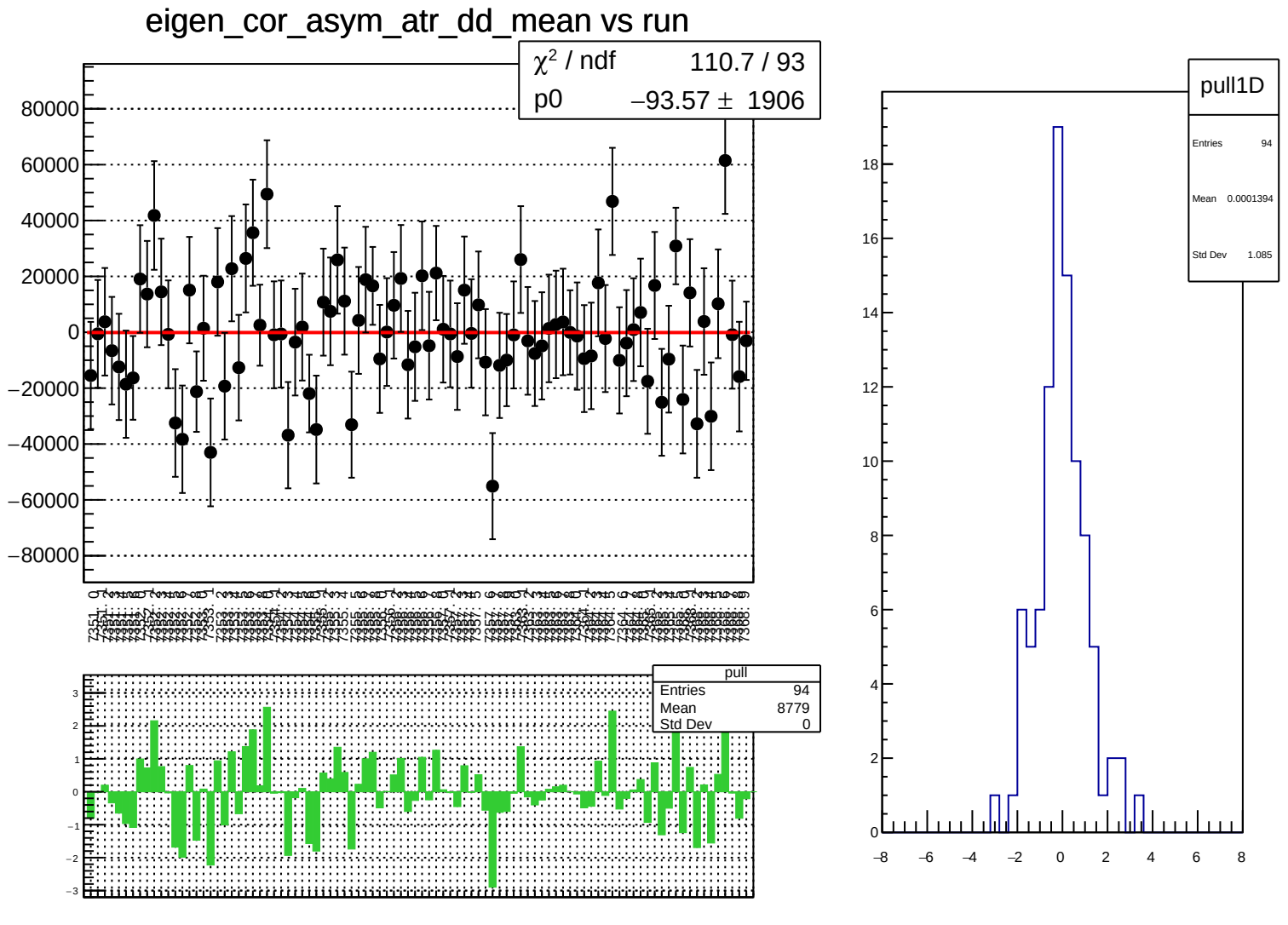

cor_asym_atr_dd_mean vs run
χ² / ndf 110.7 / 93
p0 −93.57 ± 1906
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean 8779
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.0001394
Std Dev 1.085
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

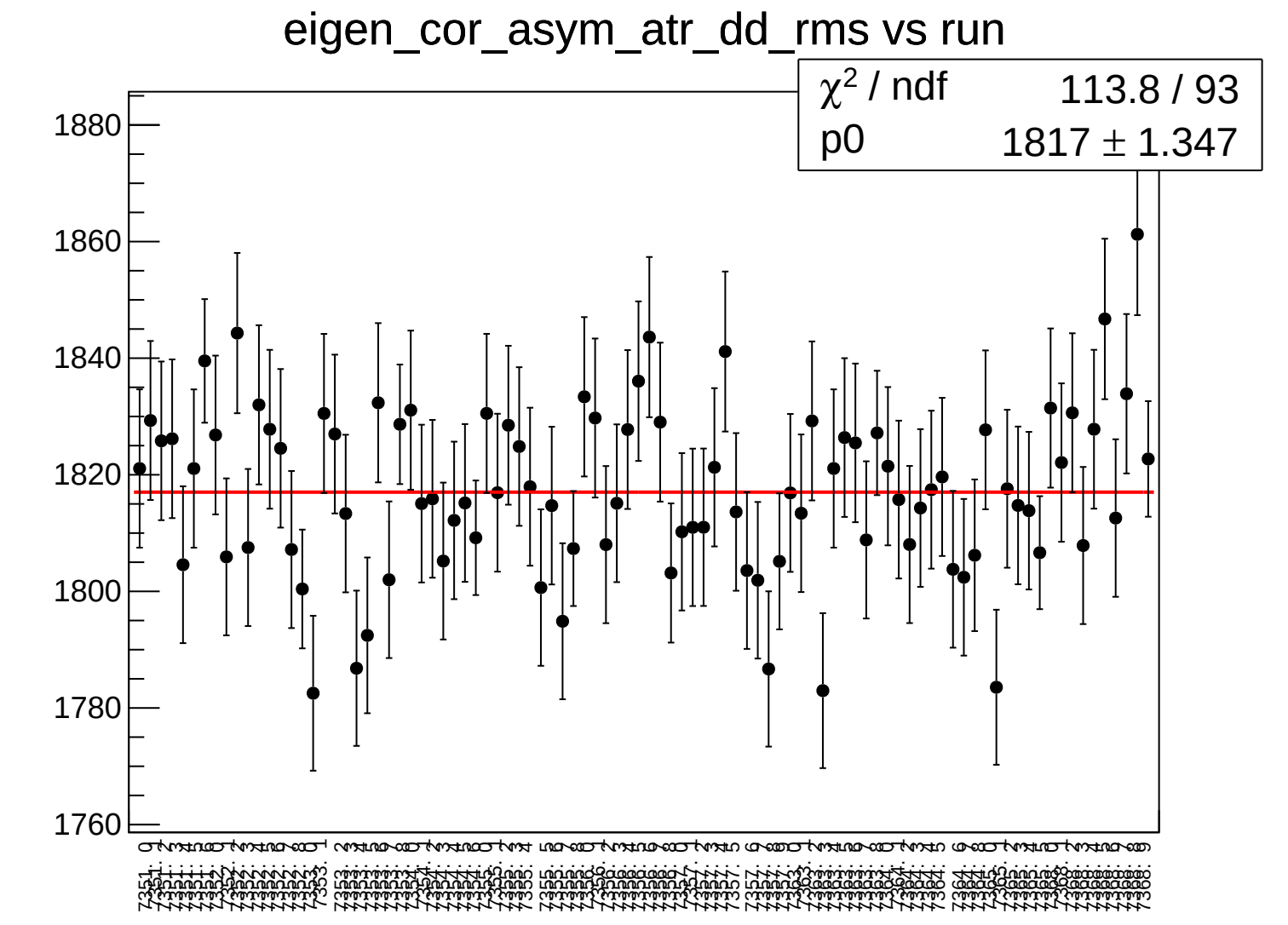

cor_asym_atr_dd_rms vs run
χ^2 / ndf 113.8 / 93
p0 1817 ± 1.347
1880
1860
1840
1820
1800
1780
1760

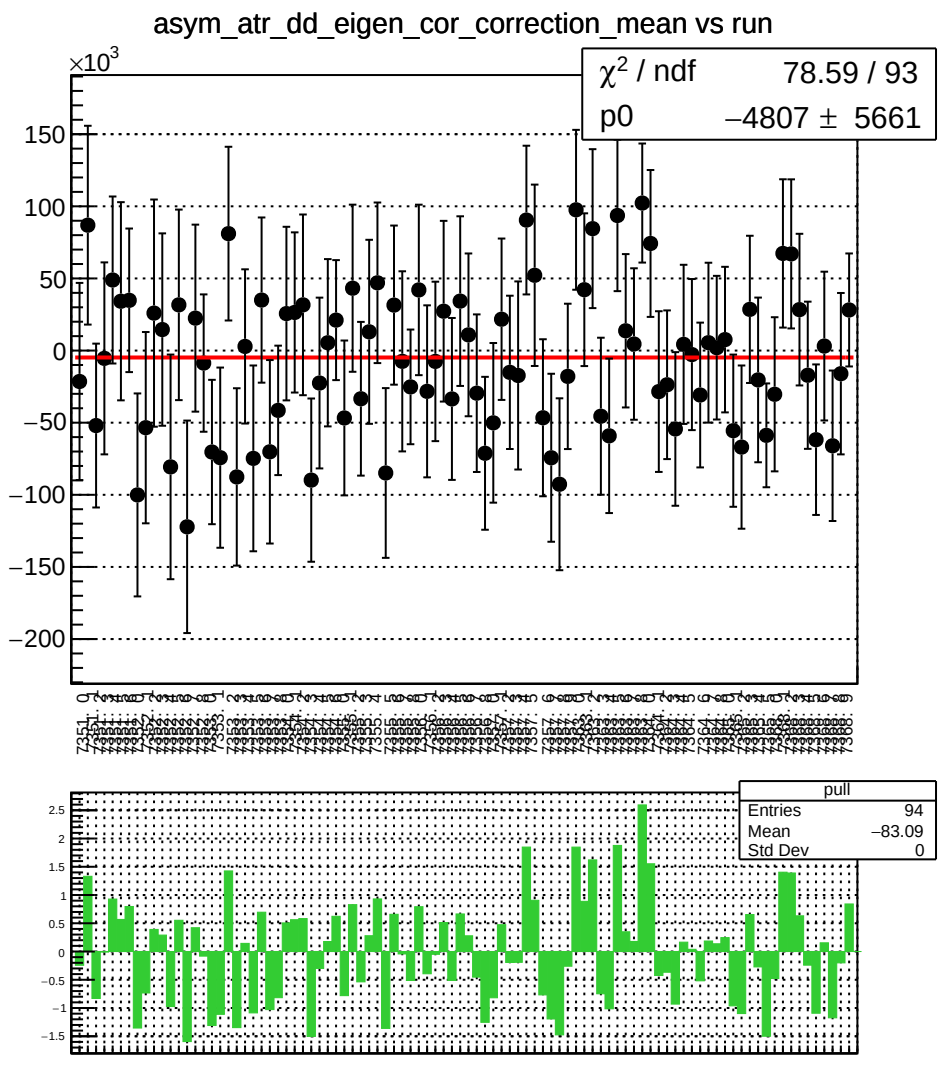

asym_atr_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 78.59 / 93
p0 −4807 ± 5661
150
100
50
0
−50
−100
−150
−200
pull
Entries 94
Mean −83.09
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

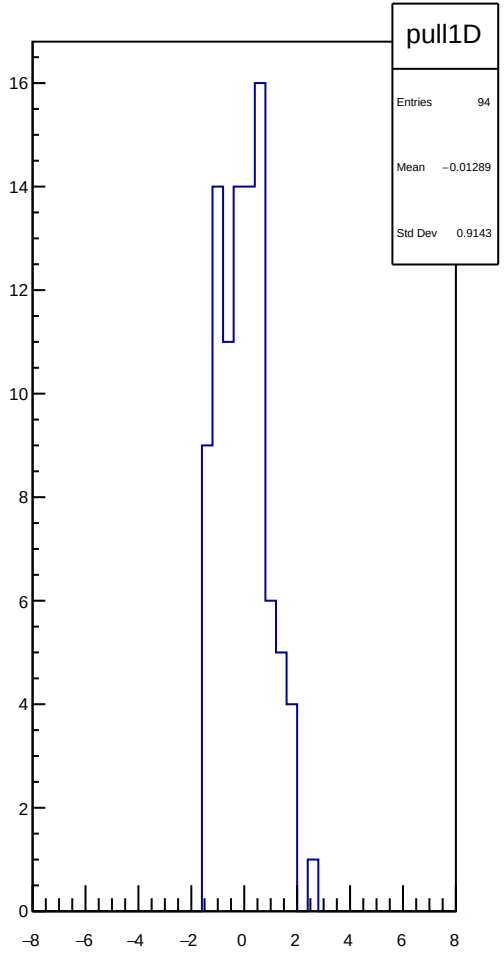

pull1D
Entries 94
Mean −0.01289
Std Dev 0.9143
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

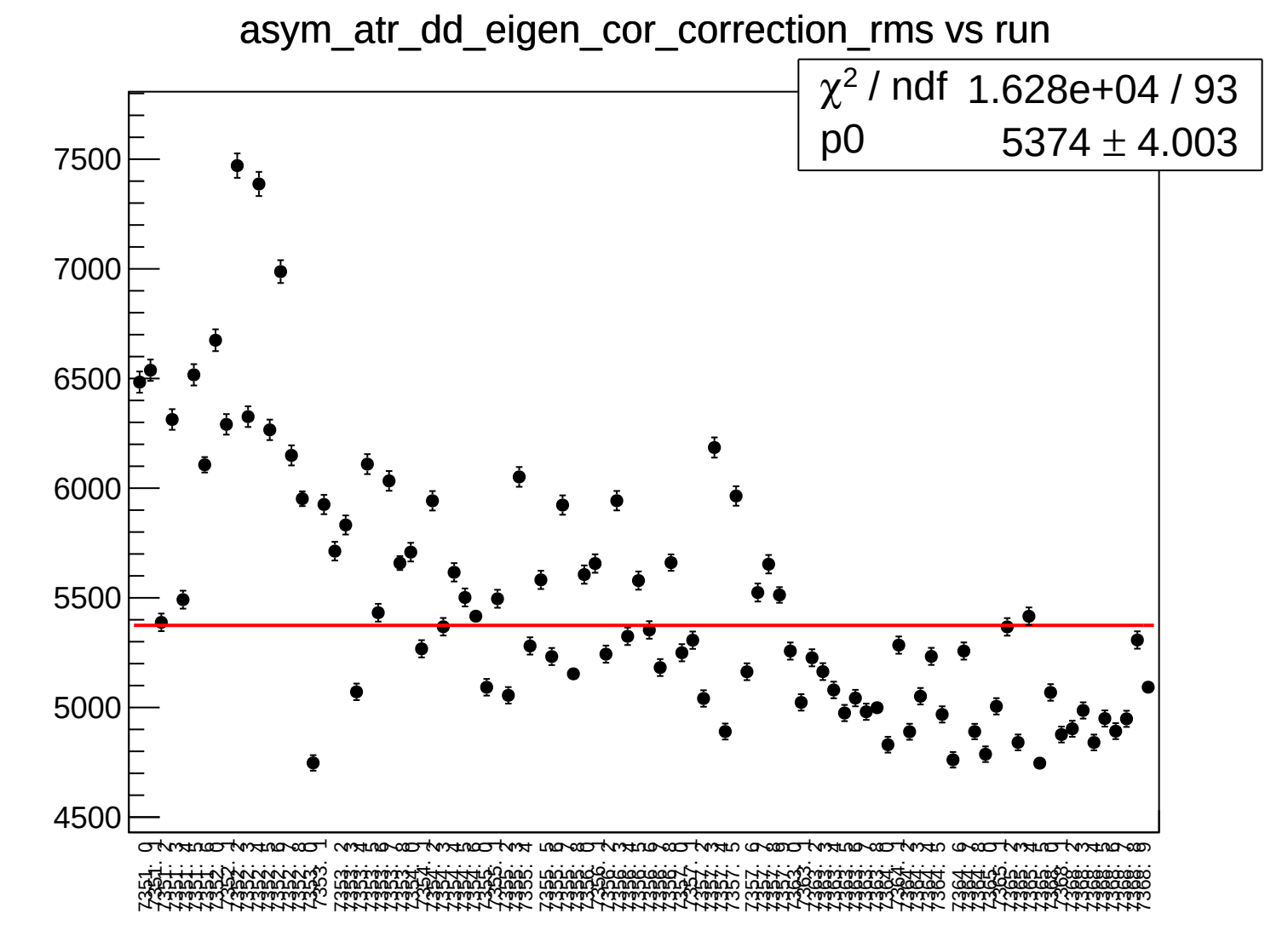

asym_atr_dd_cor_correction_rms vs run
χ² / ndf 1.628e+04 / 93
p0 5374 ± 4.003
7500
7000
6500
6000
5500
5000
4500

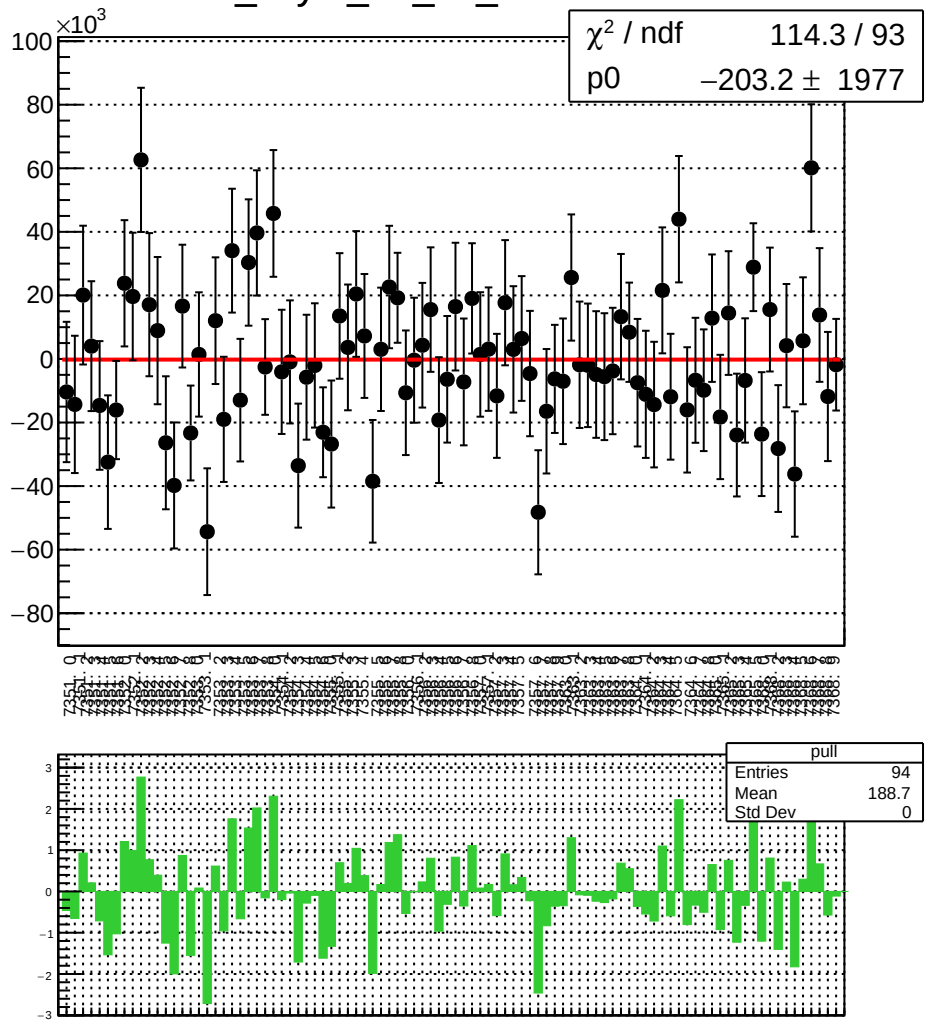

eigen_cor_asym_atr_dd_mean vs run
χ² / ndf 110.7 / 93
p0 −93.57 ± 1906
pull
Entries 94
Mean 8779
Std Dev 0
pull1D
Entries 94
Mean 0.0001394
Std Dev 1.085

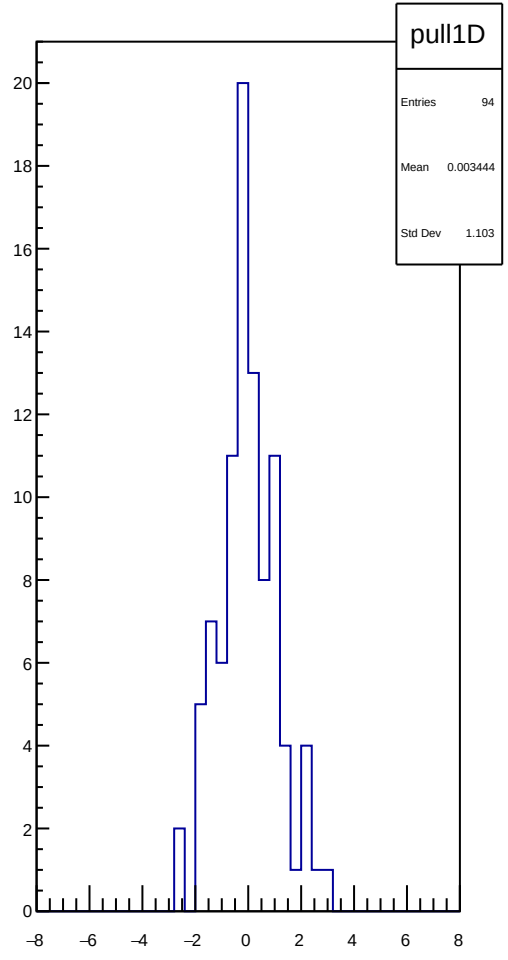

eigen_cor_asym_atr_dd_rms vs run
χ^2 / ndf 113.8 / 93
p0 1817 ± 1.347
1880
1860
1840
1820
1800
1780
1760

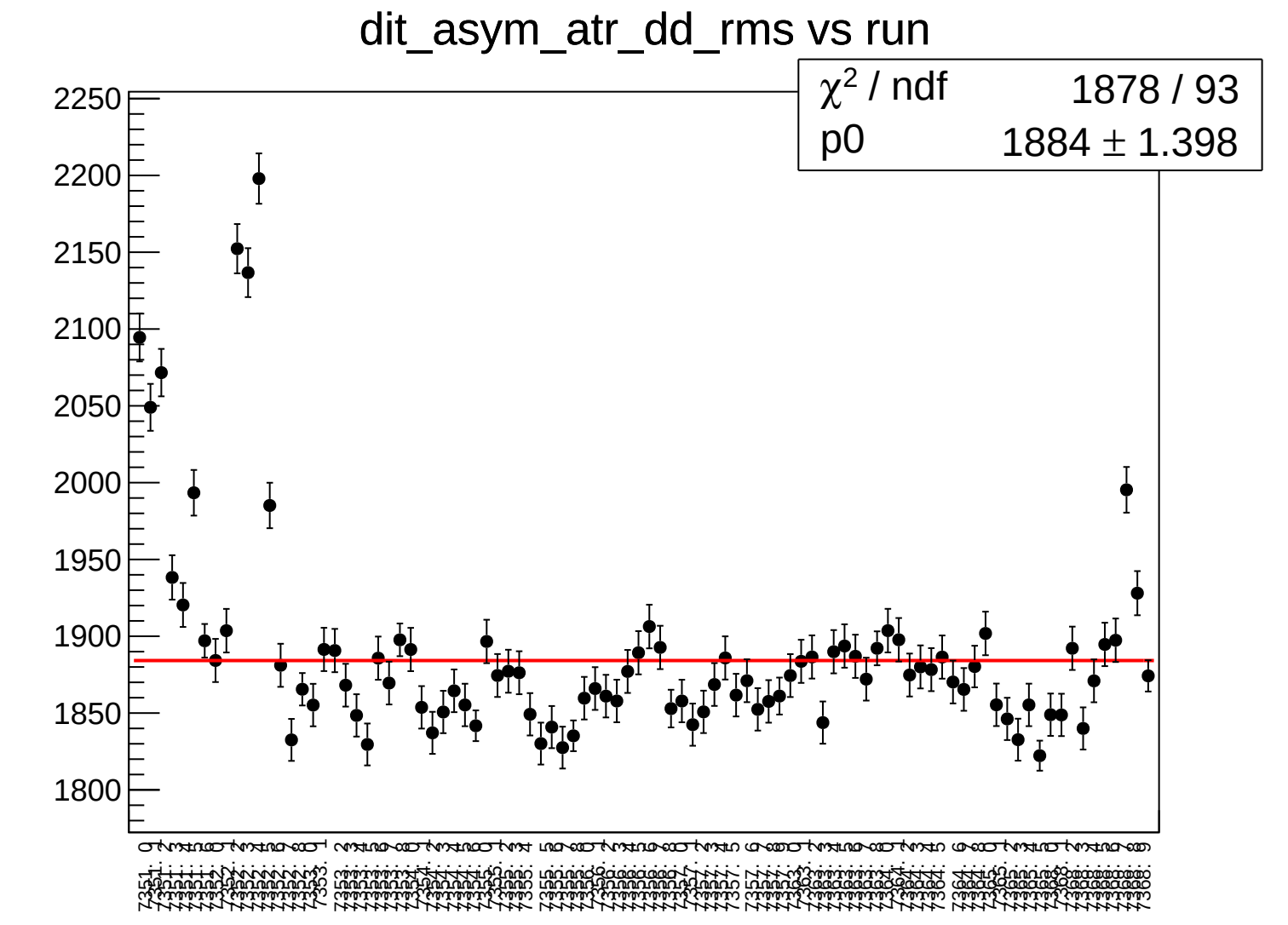

asym_atr_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 78.59 / 93
p0 −4807 ± 5661
150
100
50
0
−50
−100
−150
−200
pull
Entries 94
Mean −83.09
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

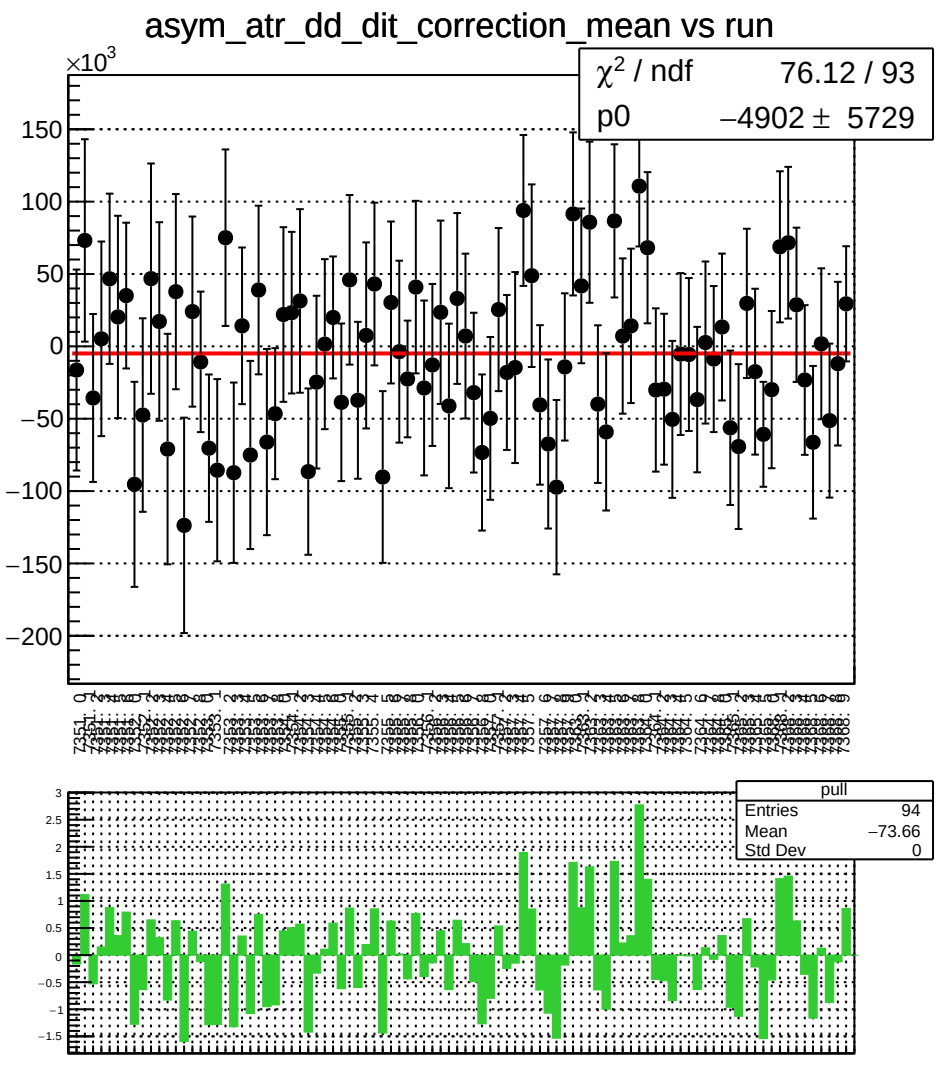

pull1D
Entries 94
Mean −0.01289
Std Dev 0.9143
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

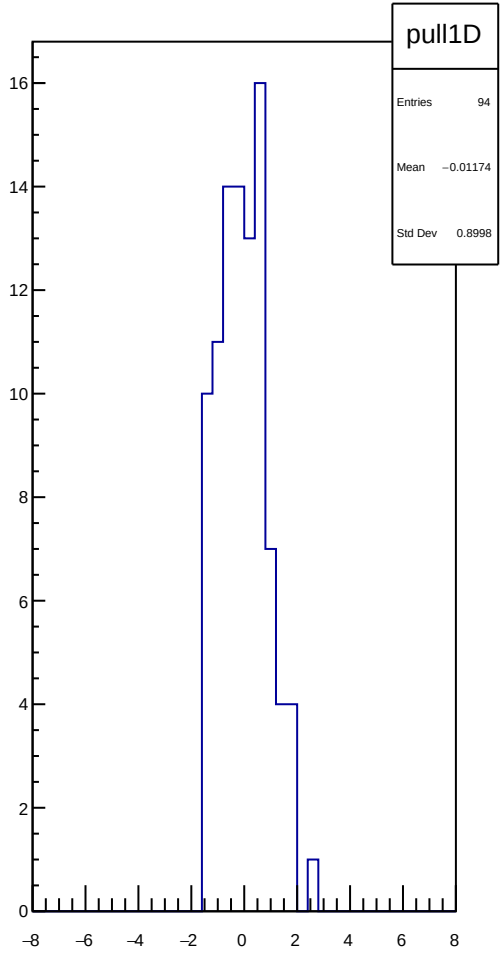

asym_atr_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.628e+04 / 93
p0 5374 ± 4.003
7500
7000
6500
6000
5500
5000
4500

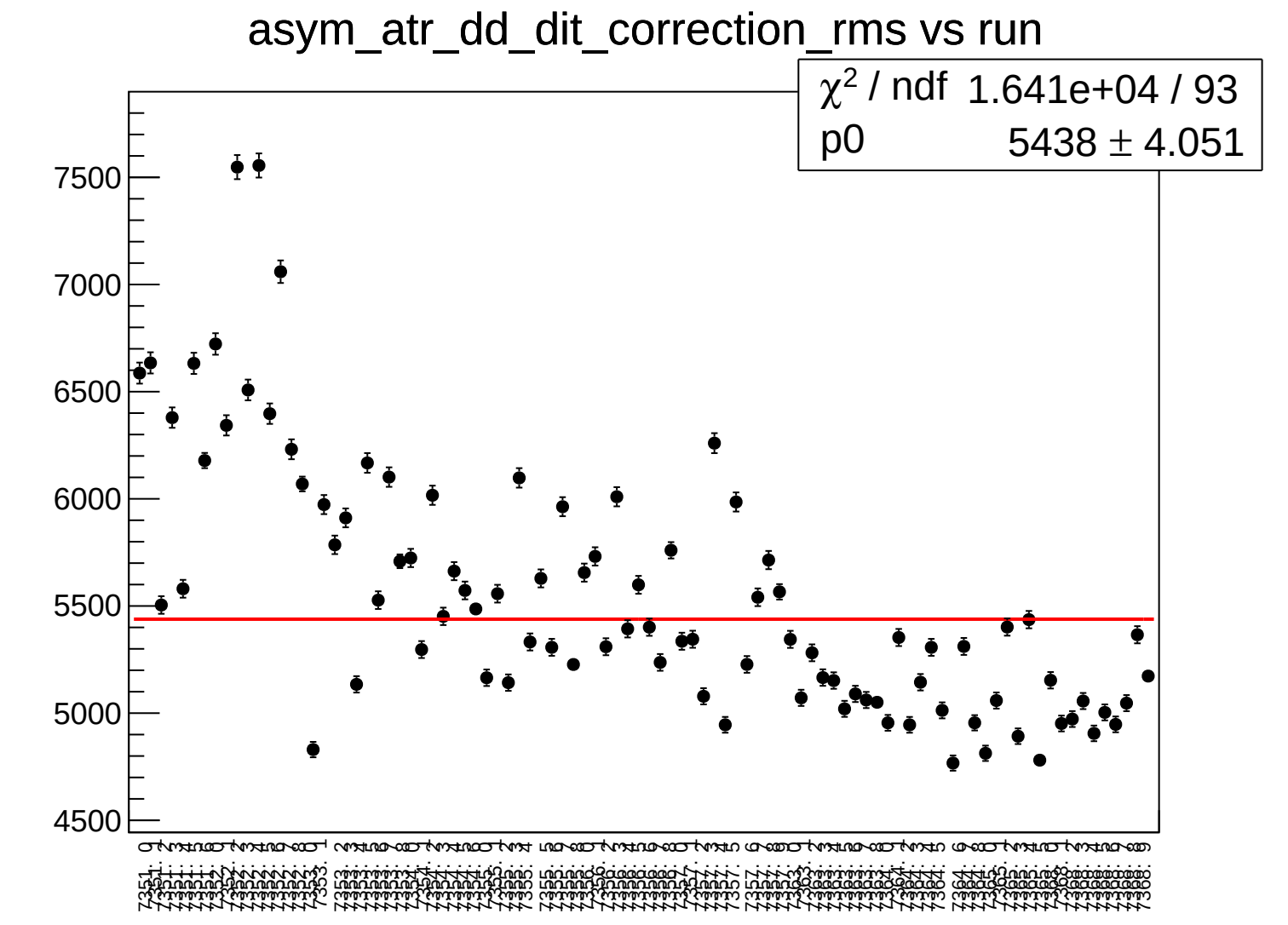

dit_asym_atr_dd_mean vs run
χ² / ndf 114.3 / 93
p0 −203.2 ± 1977
×10³
pull
Entries 94
Mean 188.7
Std Dev 0

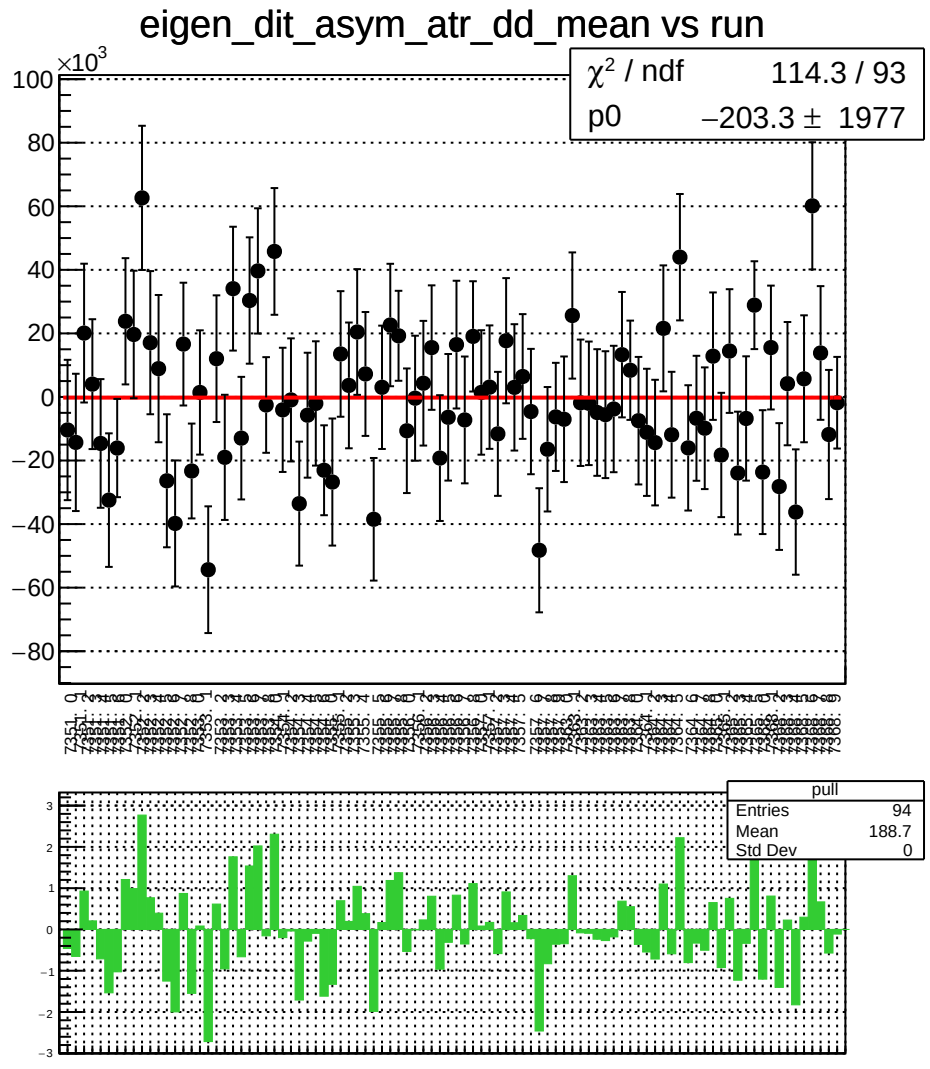

pull1D
Entries 94
Mean 0.003444
Std Dev 1.103

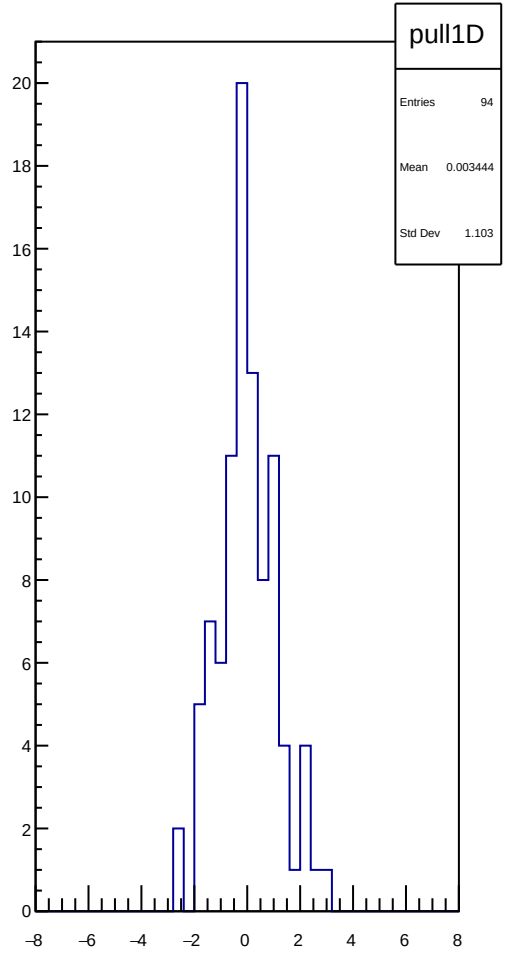

dit_asym_atr_dd_rms vs run
χ^2 / ndf 1878 / 93
p0 1884 ± 1.398
2250
2200
2150
2100
2050
2000
1950
1900
1850
1800

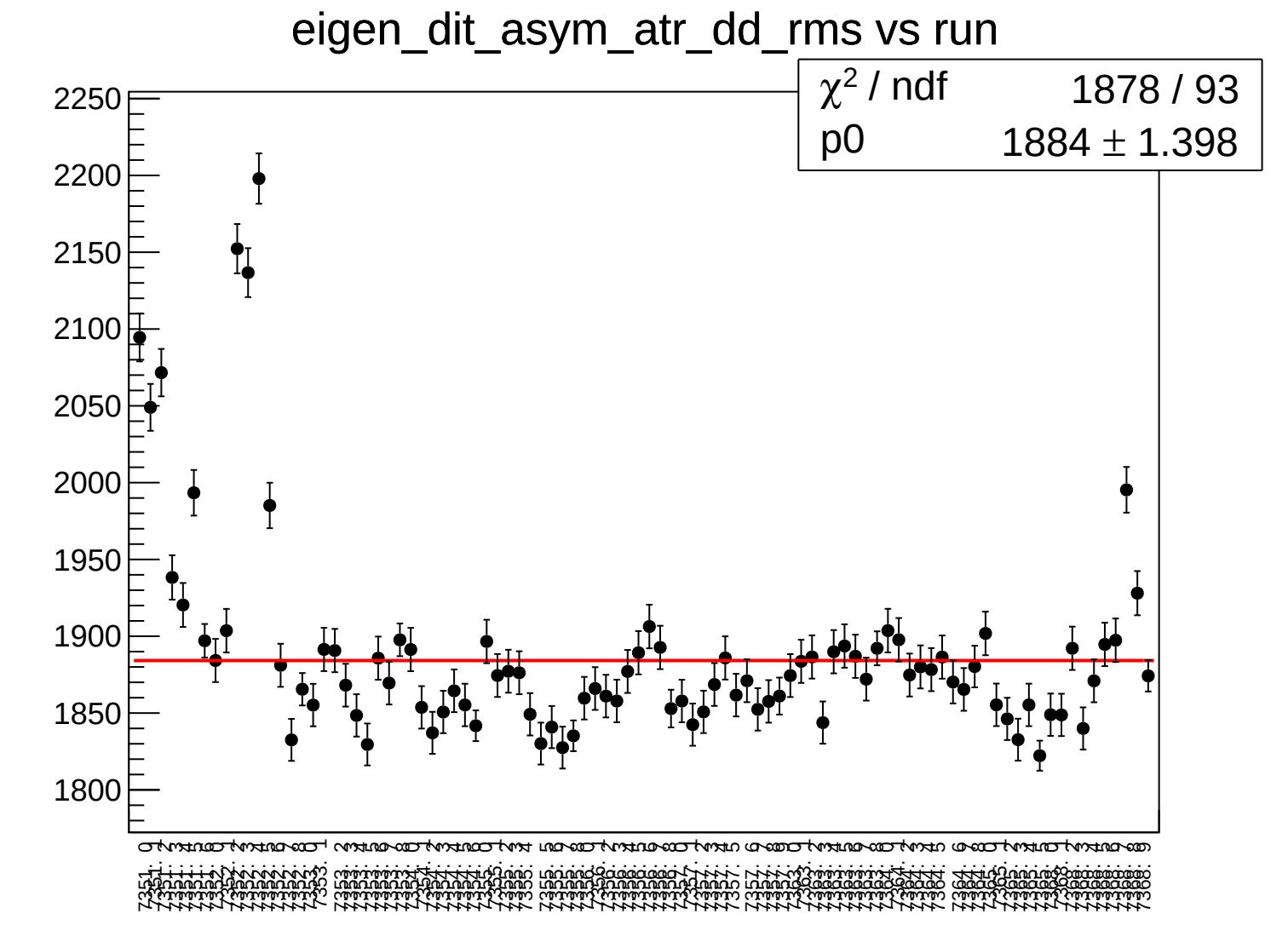

asym_atr_dd_dit_correction_mean vs run
×10^3
χ² / ndf 76.12 / 93
p0 −4902 ± 5729
150
100
50
0
−50
−100
−150
−200
pull
Entries 94
Mean −73.66
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

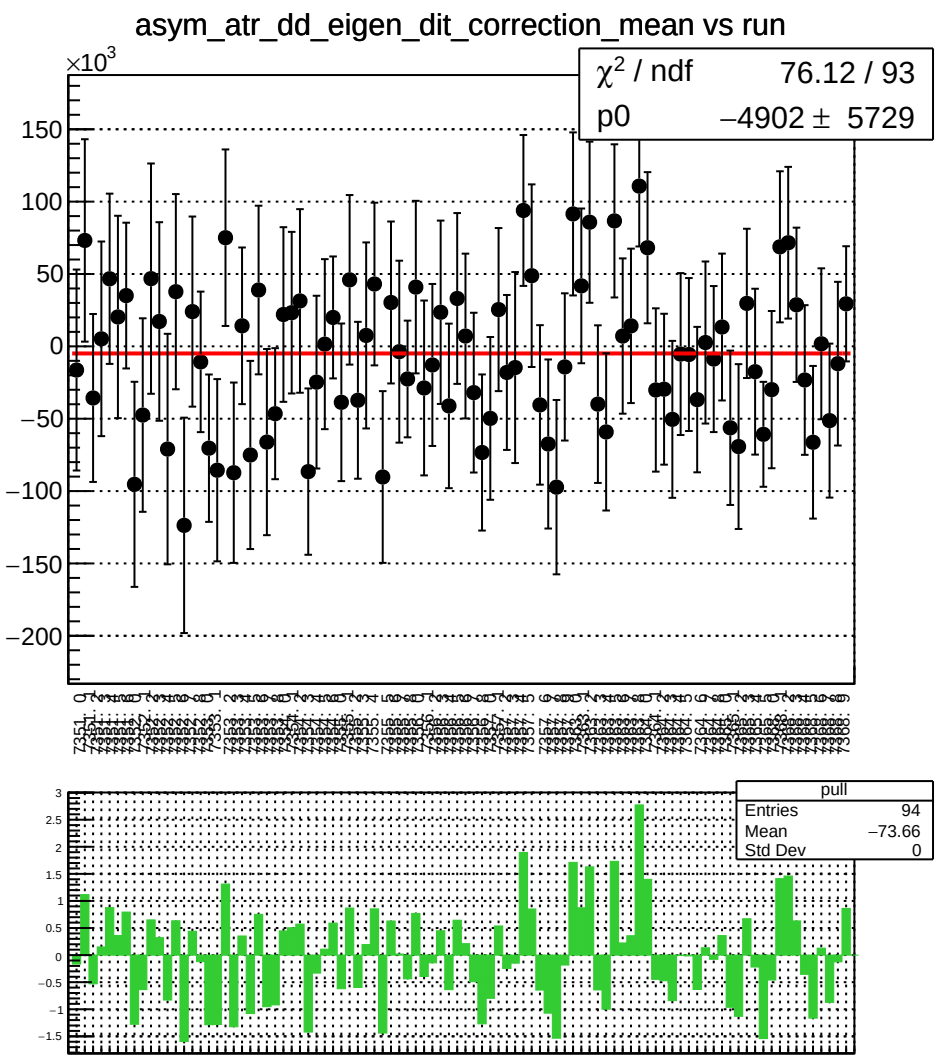

pull1D
Entries 94
Mean −0.01174
Std Dev 0.8998
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

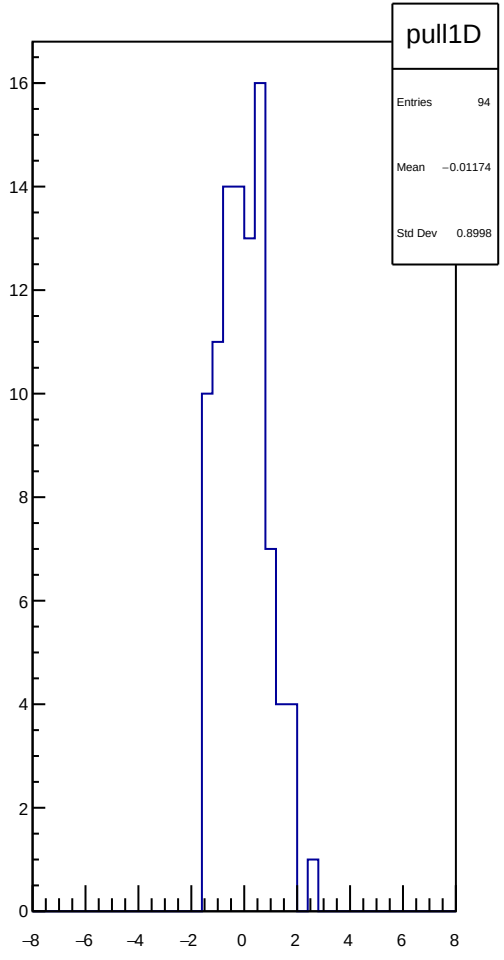

asym_atr_dd_dit_correction_rms vs run
χ^2 / ndf 1.641e+04 / 93
p0 5438 ± 4.051
7500
7000
6500
6000
5500
5000
4500

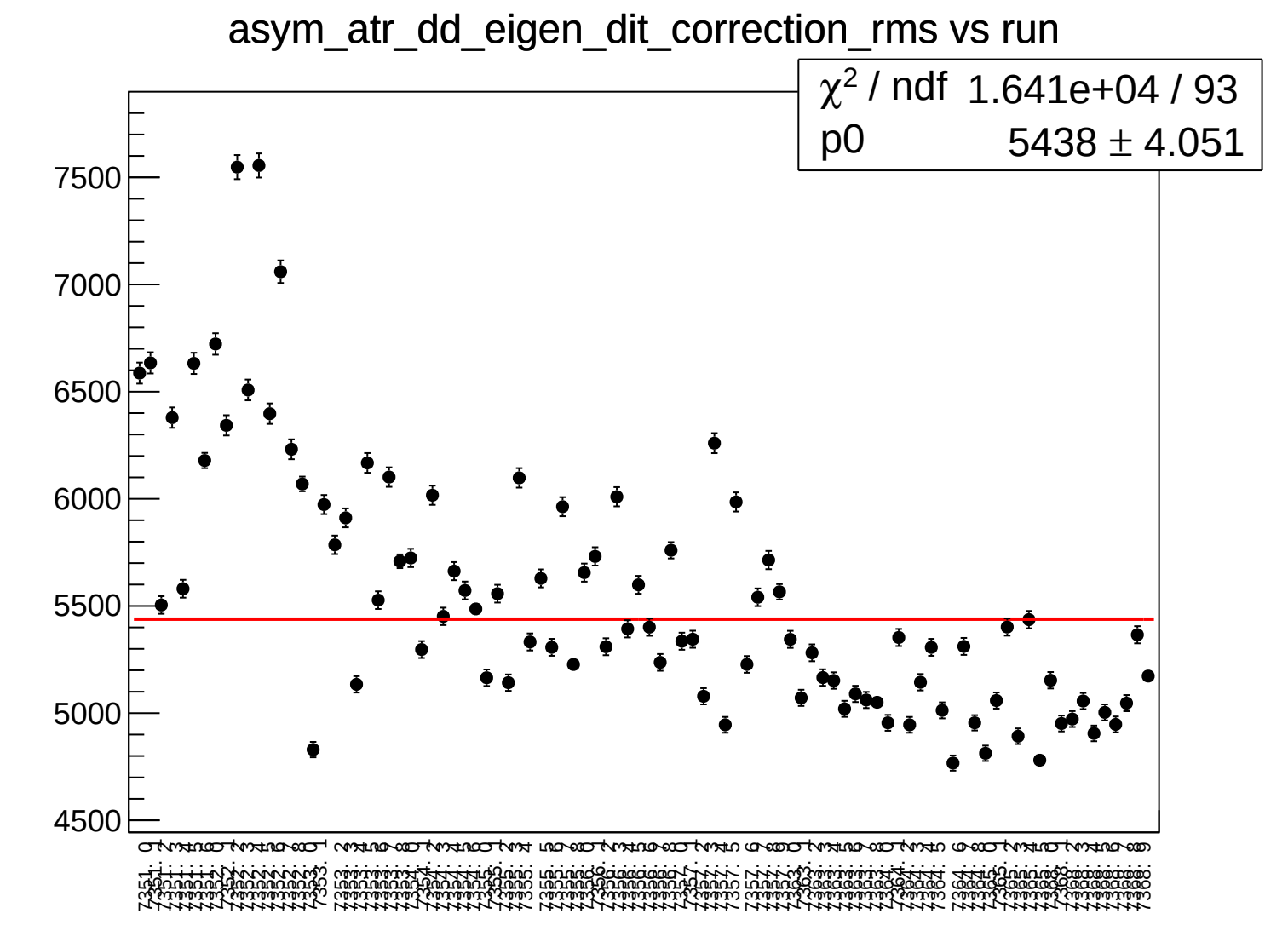

eigen_dit_asym_atr_dd_mean vs run
×10^3
χ² / ndf 114.3 / 93
p0 −203.3 ± 1977
pull
Entries 94
Mean 188.7
Std Dev 0

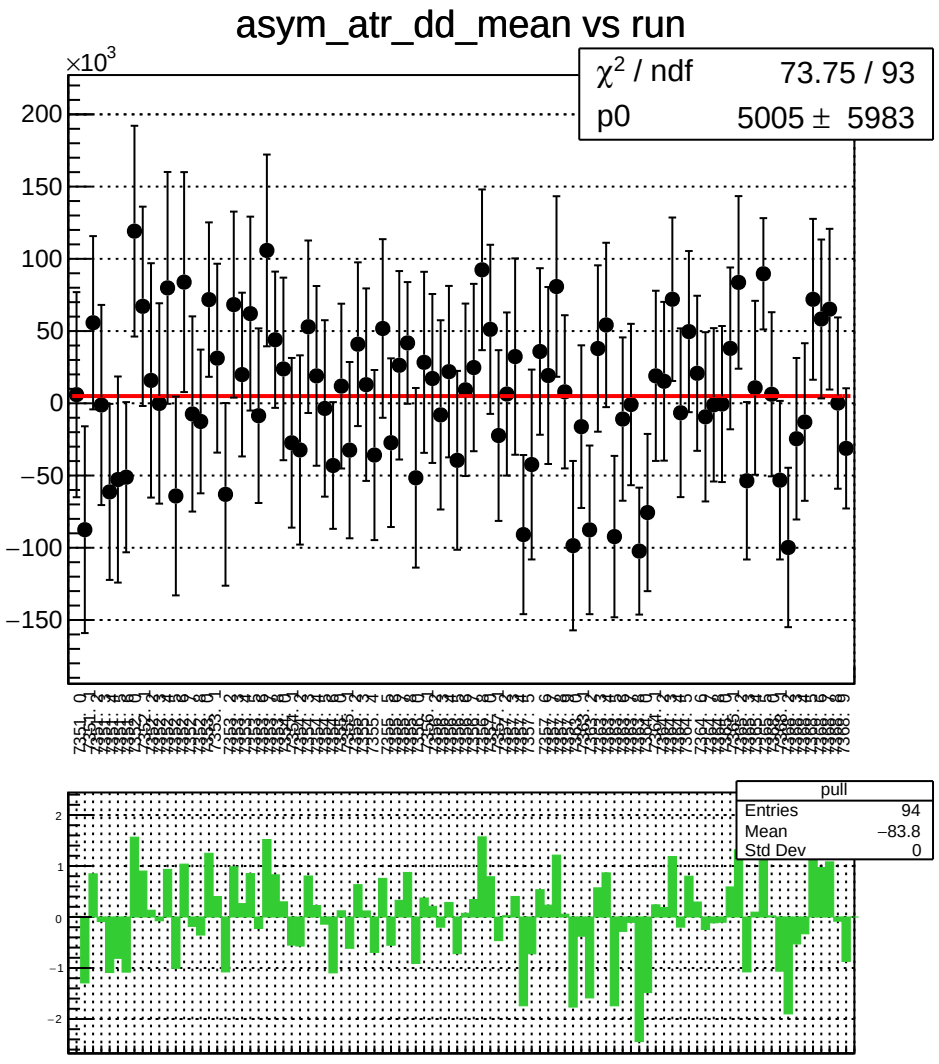

pull1D
Entries 94
Mean 0.003444
Std Dev 1.103

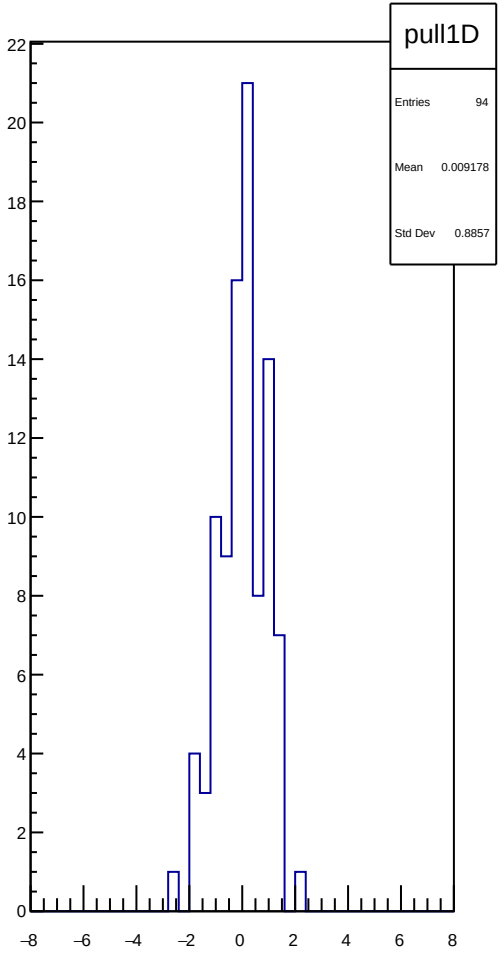

eigen_dit_asym_atr_dd_rms vs run
χ^2 / ndf 1878 / 93
p0 1884 ± 1.398
2250
2200
2150
2100
2050
2000
1950
1900
1850
1800

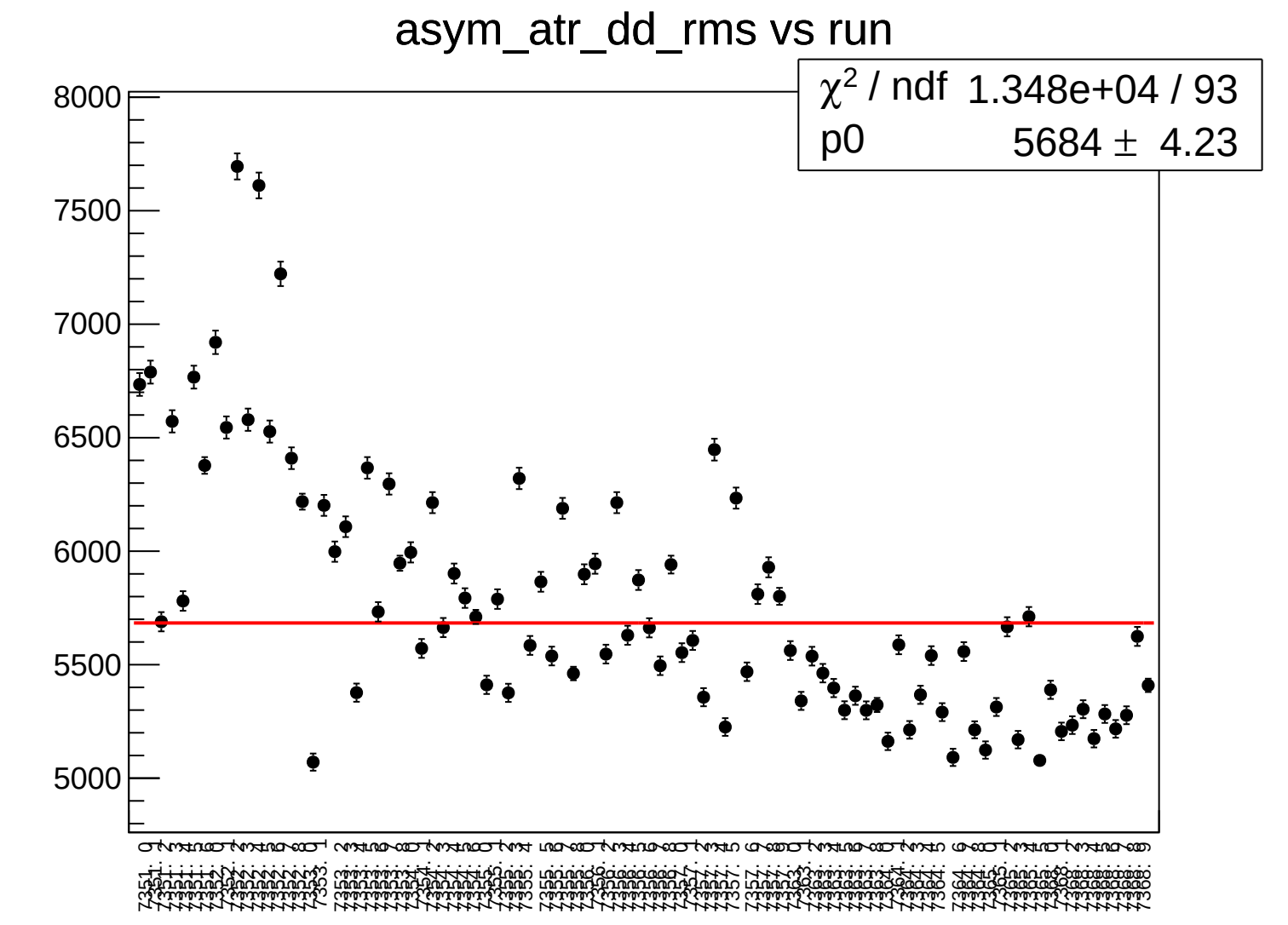

asym_atr_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 76.12 / 93
p0 −4902 ± 5729
150
100
50
0
−50
−100
−150
−200
pull
Entries 94
Mean −73.66
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

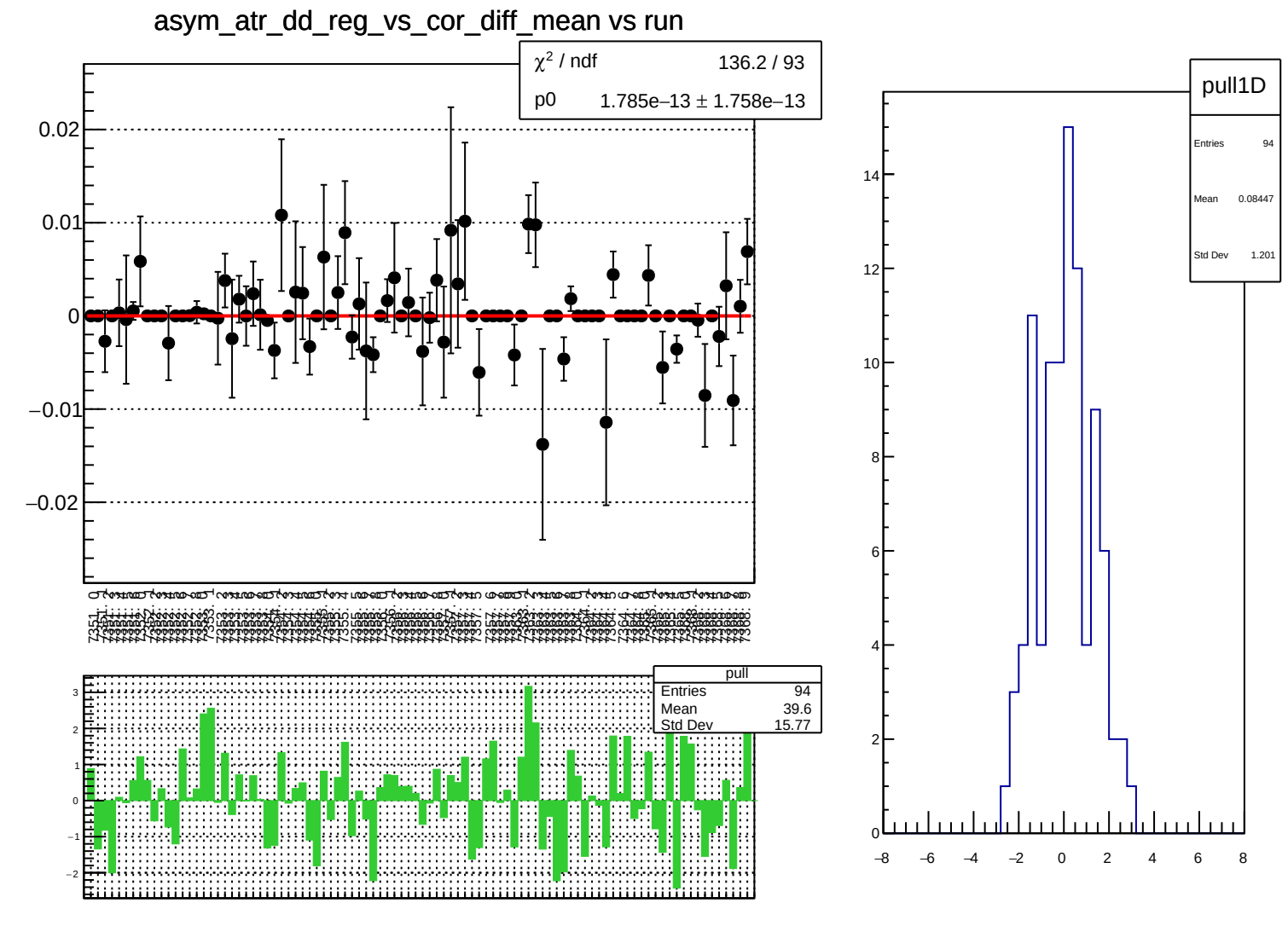

pull1D
Entries 94
Mean −0.01174
Std Dev 0.8998
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

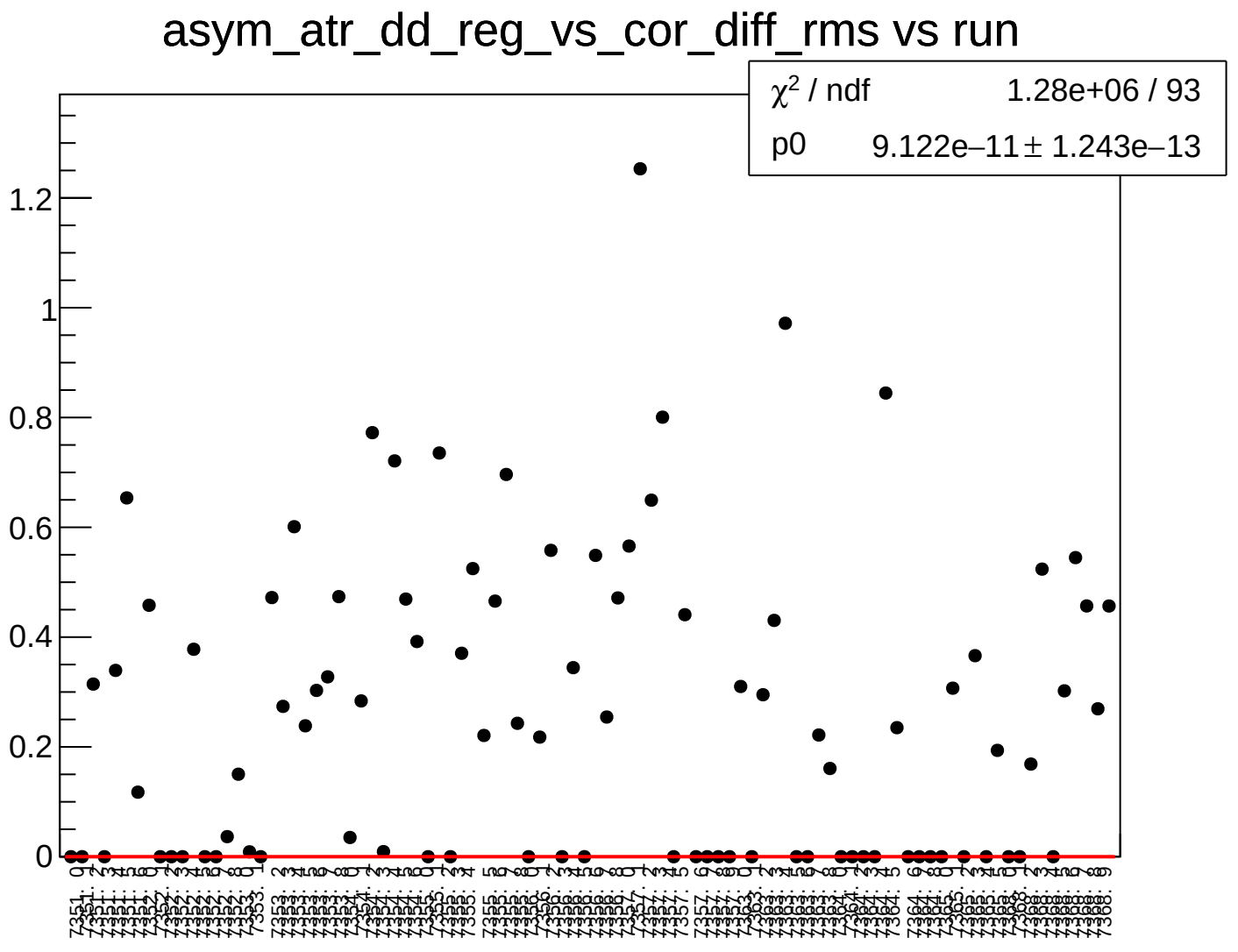

asym_atr_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.641e+04 / 93
p0 5438 ± 4.051
7500
7000
6500
6000
5500
5000
4500

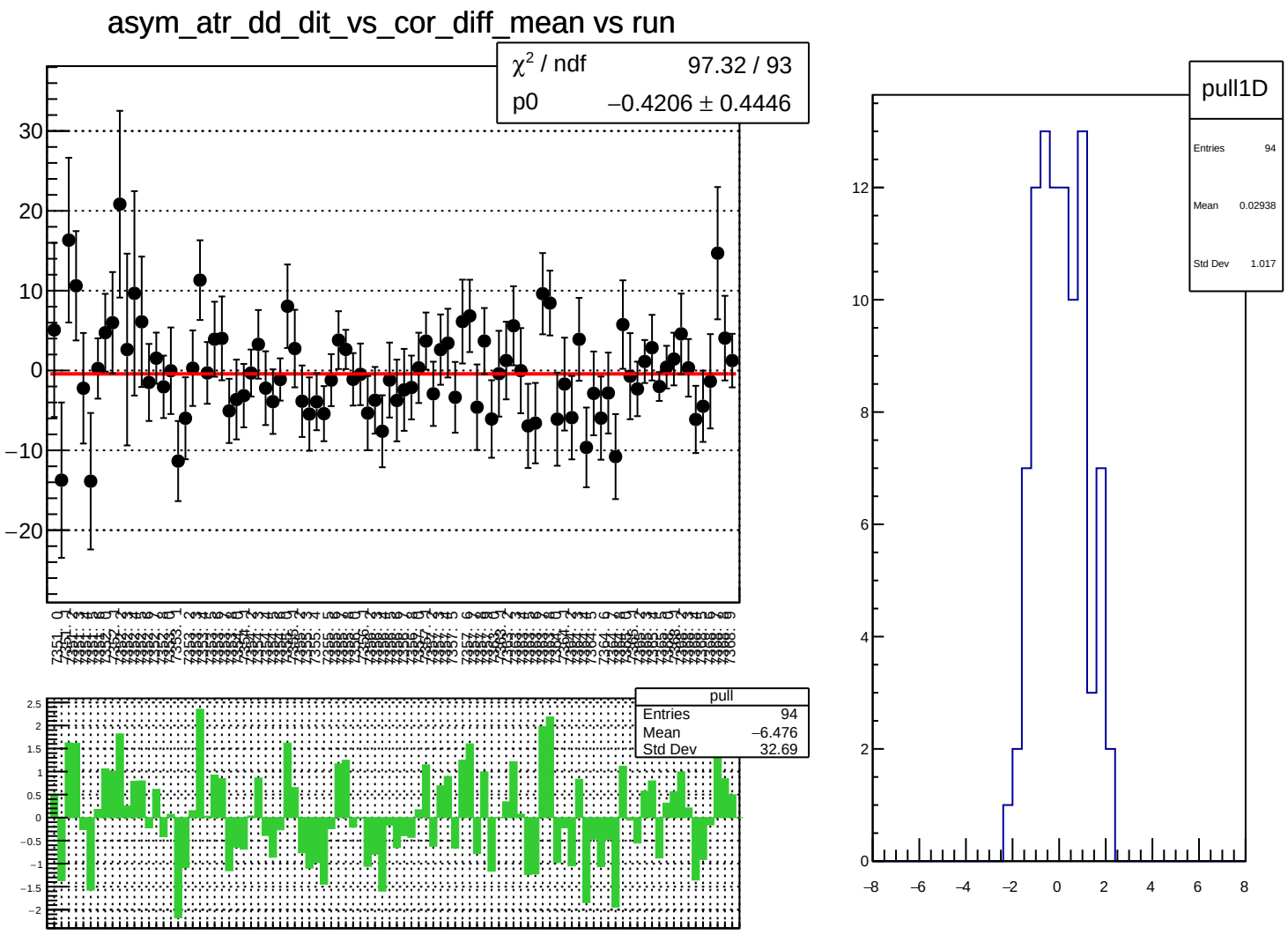

asym_atr_dd_mean vs run
×10^3
χ² / ndf 73.75 / 93
p0 5005 ± 5983
pull
Entries 94
Mean −83.8
Std Dev 0

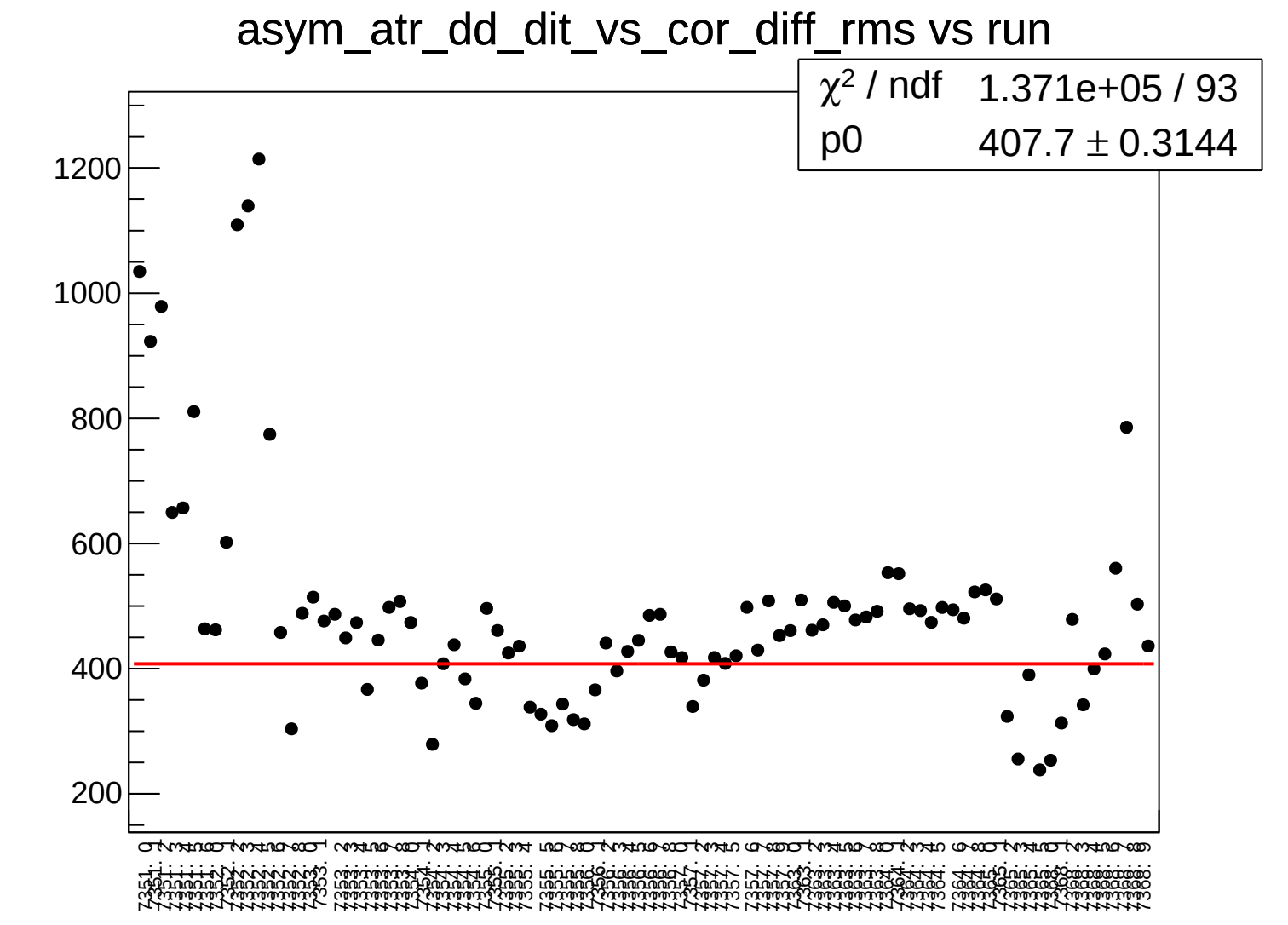

pull1D
Entries 94
Mean 0.009178
Std Dev 0.8857

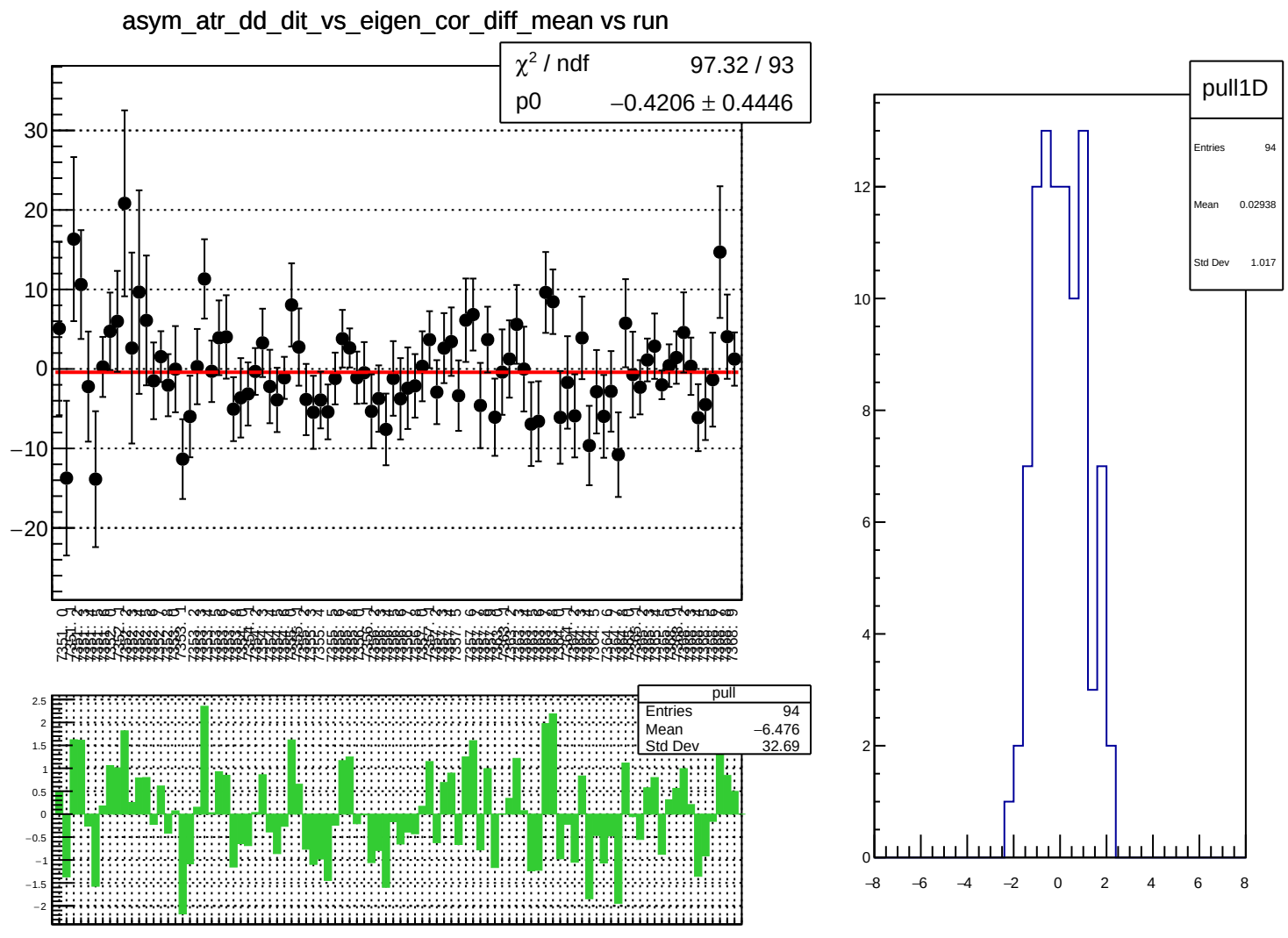

asym_atr_dd_rms vs run
χ² / ndf 1.348e+04 / 93
p0 5684 ± 4.23
8000
7500
7000
6500
6000
5500
5000

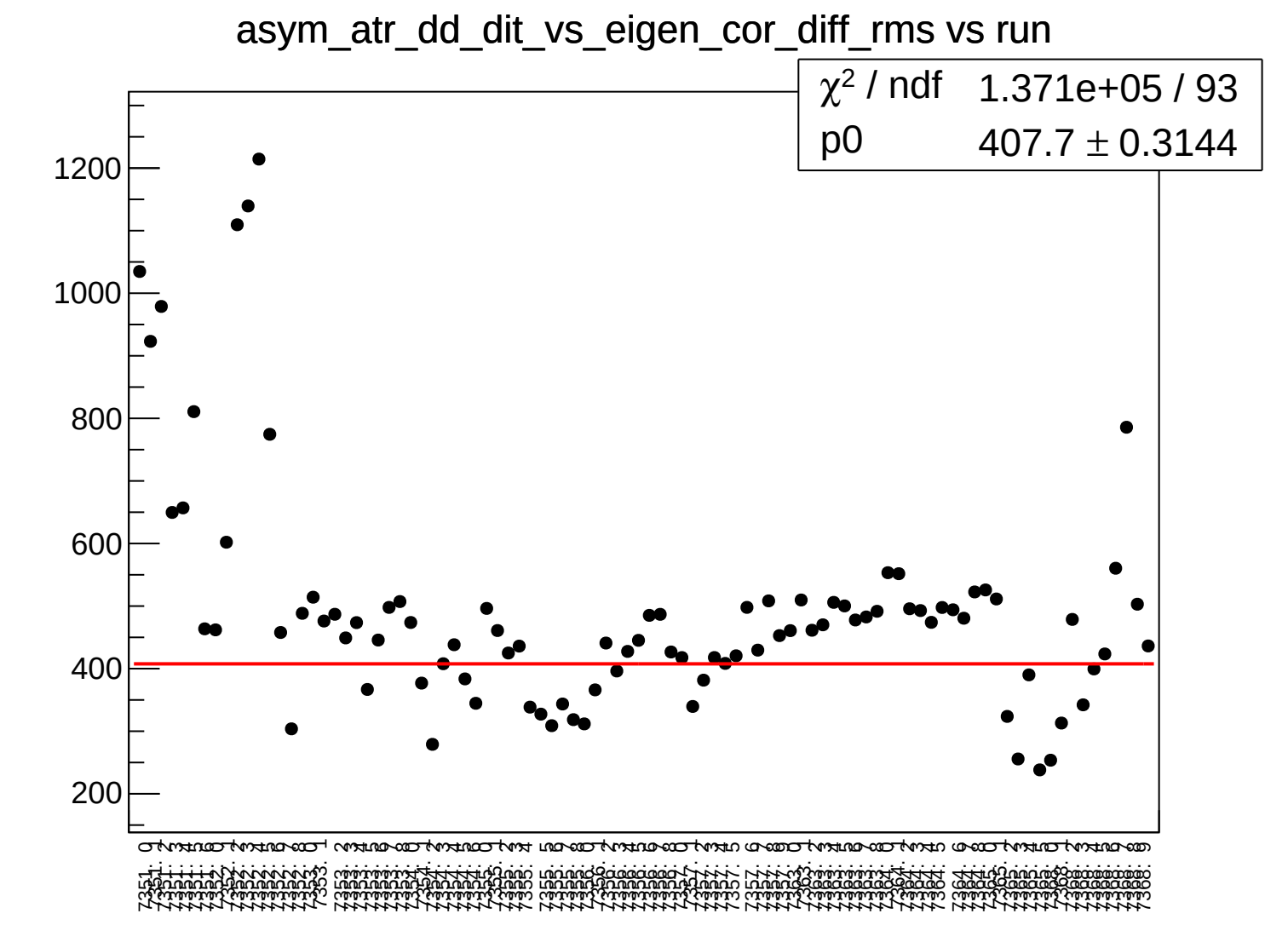

asym_atr_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 136.2 / 93
p0 1.785e−13 ± 1.758e−13
0.02
0.01
0
−0.01
−0.02
pull
Entries 94
Mean 39.6
Std Dev 15.77
pull1D
Entries 94
Mean 0.08447
Std Dev 1.201

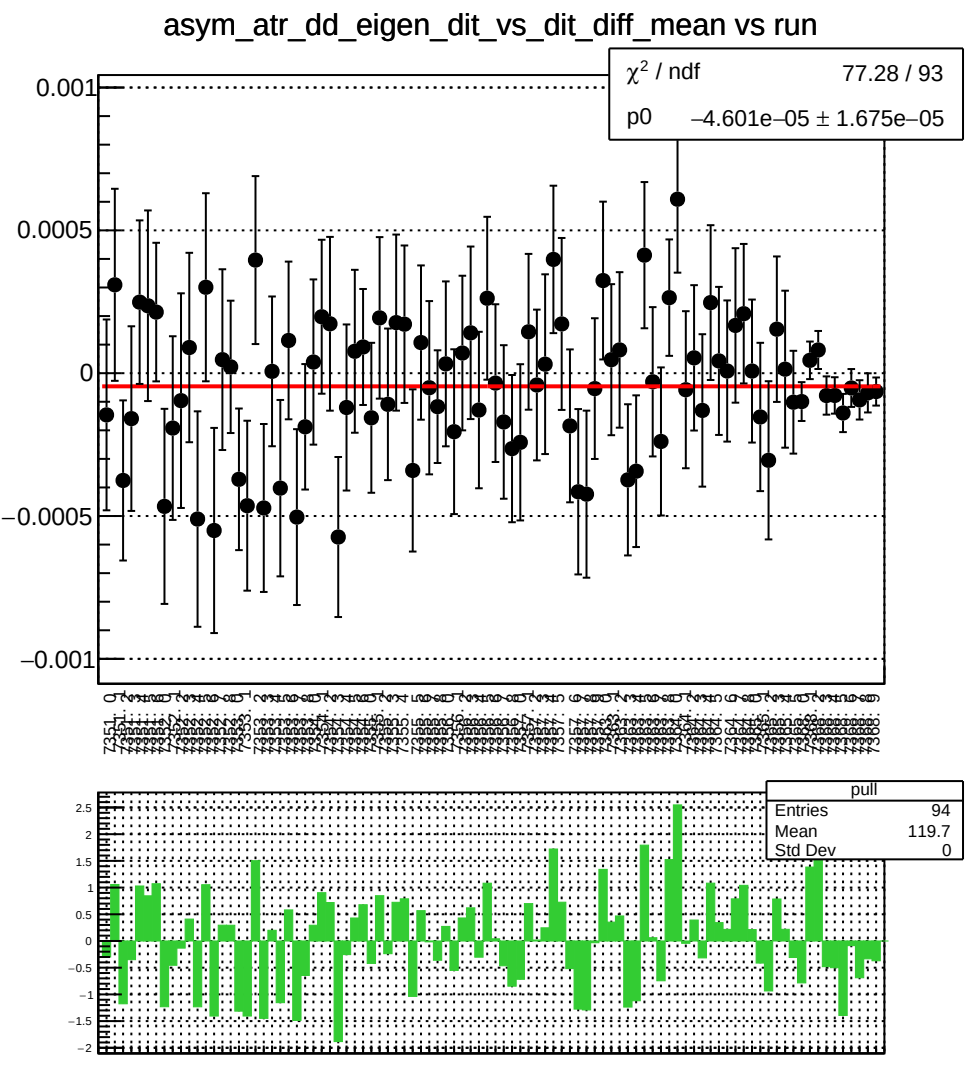

asym_atr_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.28e+06 / 93
p0 9.122e−11 ± 1.243e−13
1.2
1
0.8
0.6
0.4
0.2
0

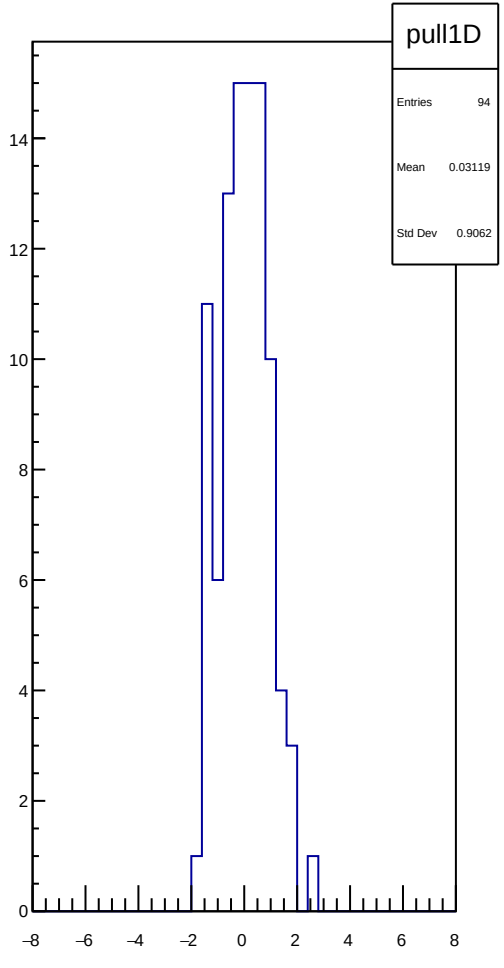

asym_atr_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 97.32 / 93
p0 −0.4206 ± 0.4446
pull
Entries 94
Mean −6.476
Std Dev 32.69
pull1D
Entries 94
Mean 0.02938
Std Dev 1.017

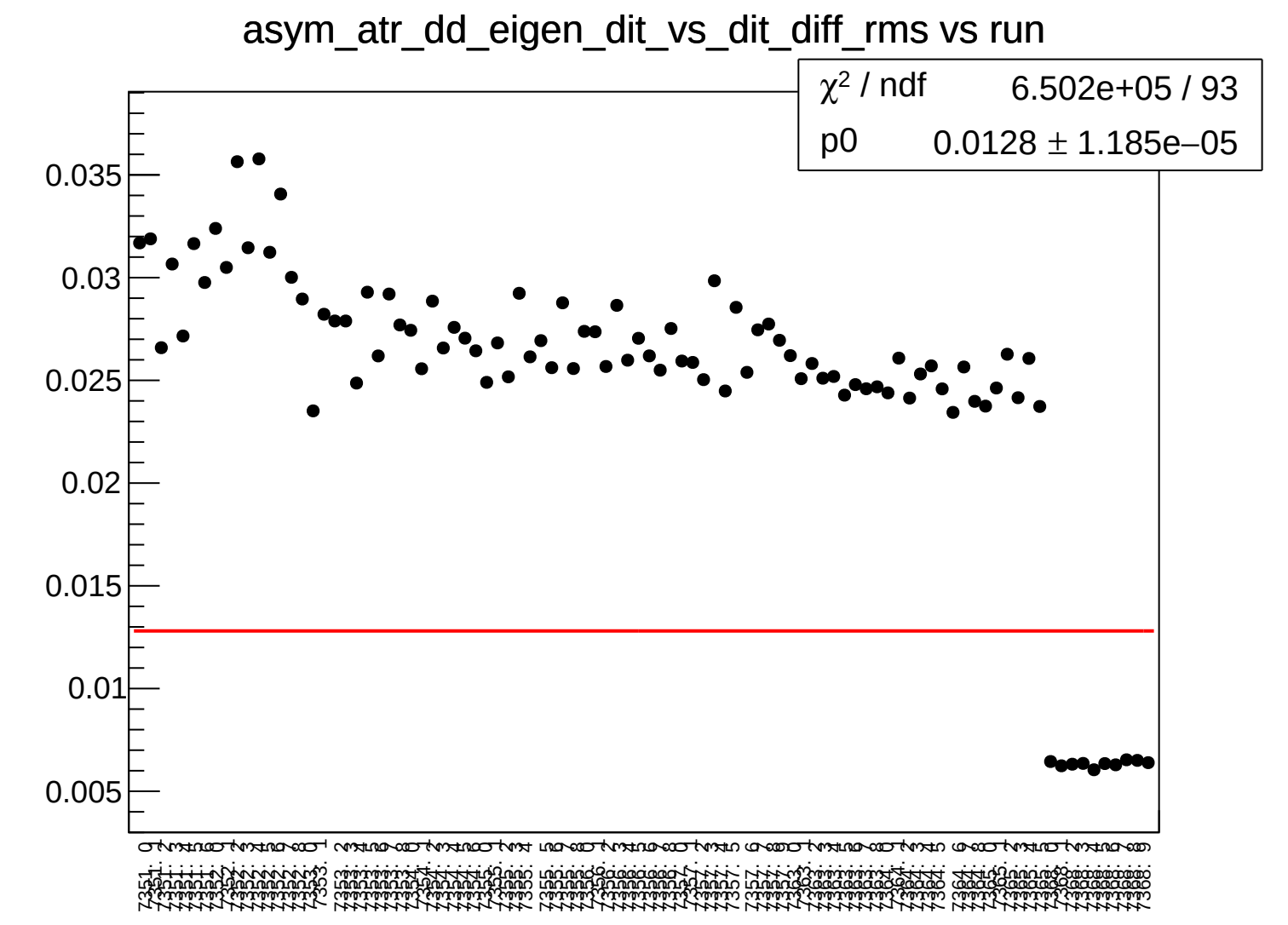

asym_atr_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.371e+05 / 93
p0 407.7 ± 0.3144
1200
1000
800
600
400
200

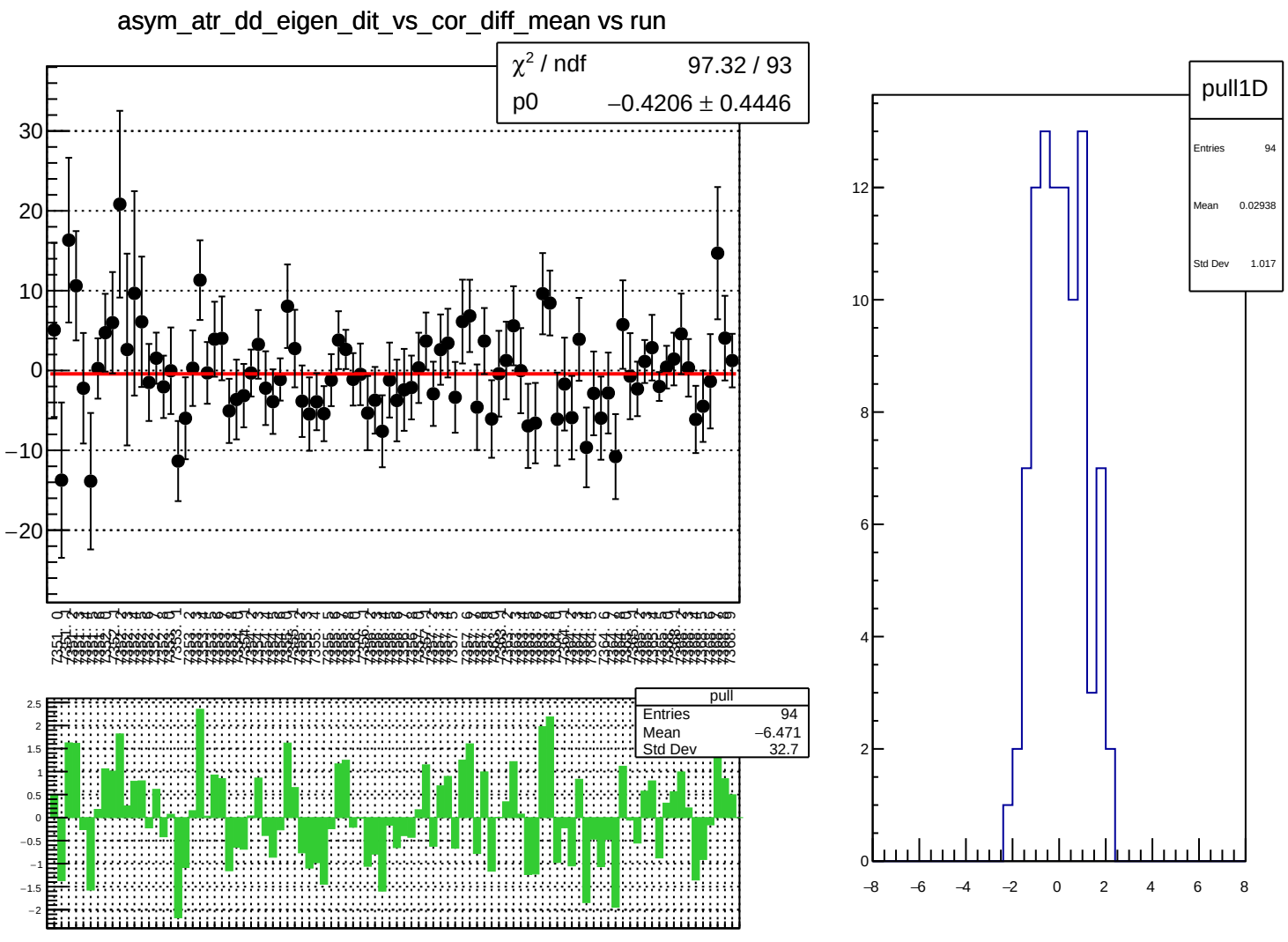

asym_atr_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.32 / 93
p0 −0.4206 ± 0.4446
30
20
10
0
−10
−20
pull
Entries 94
Mean −6.476
Std Dev 32.69
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean 0.02938
Std Dev 1.017
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

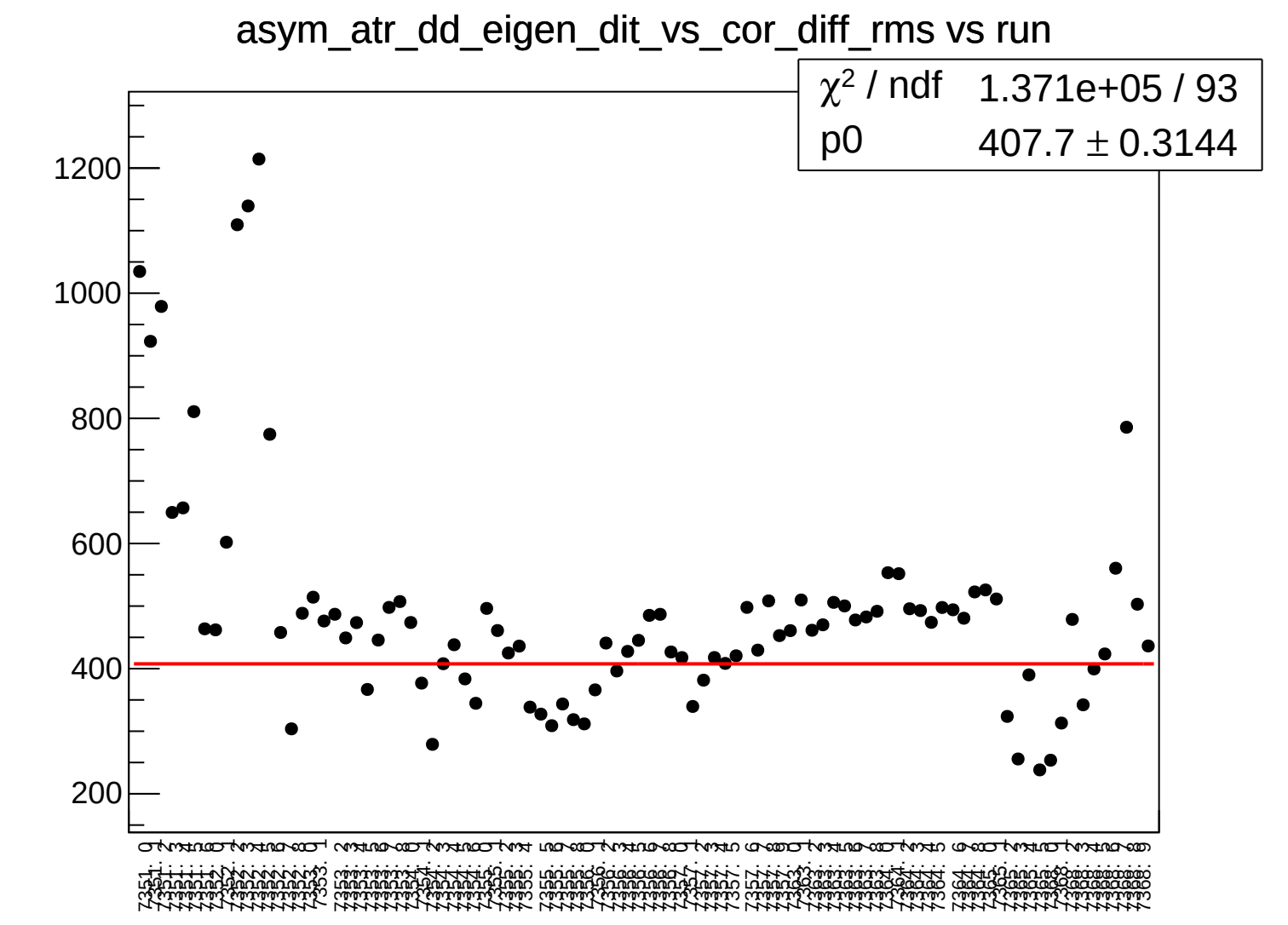

asym_atr_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.371e+05 / 93
p0 407.7 ± 0.3144
1200
1000
800
600
400
200

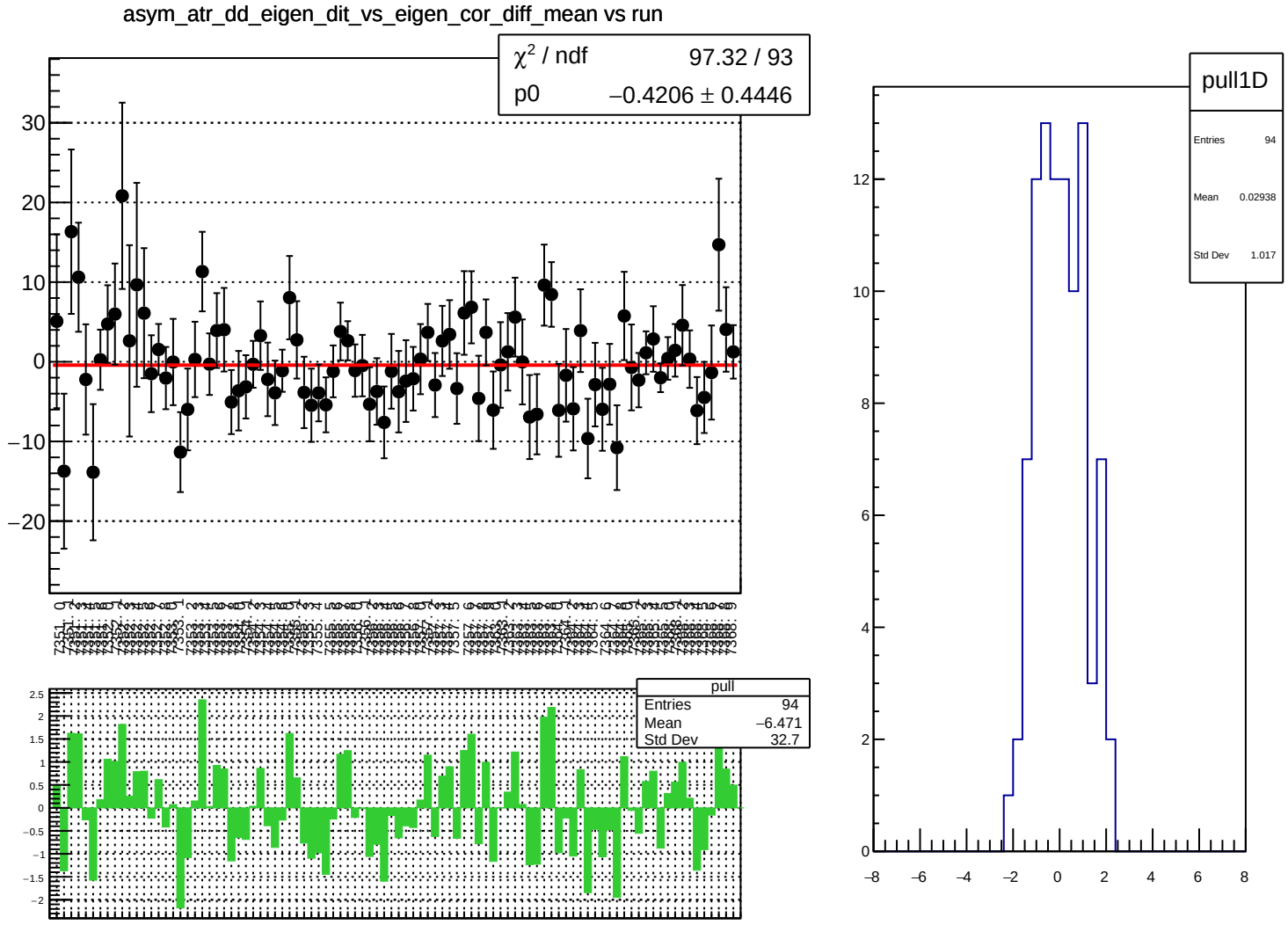

asym_atr_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 77.28 / 93
p0 −4.601e−05 ± 1.675e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 94
Mean 119.7
Std Dev 0

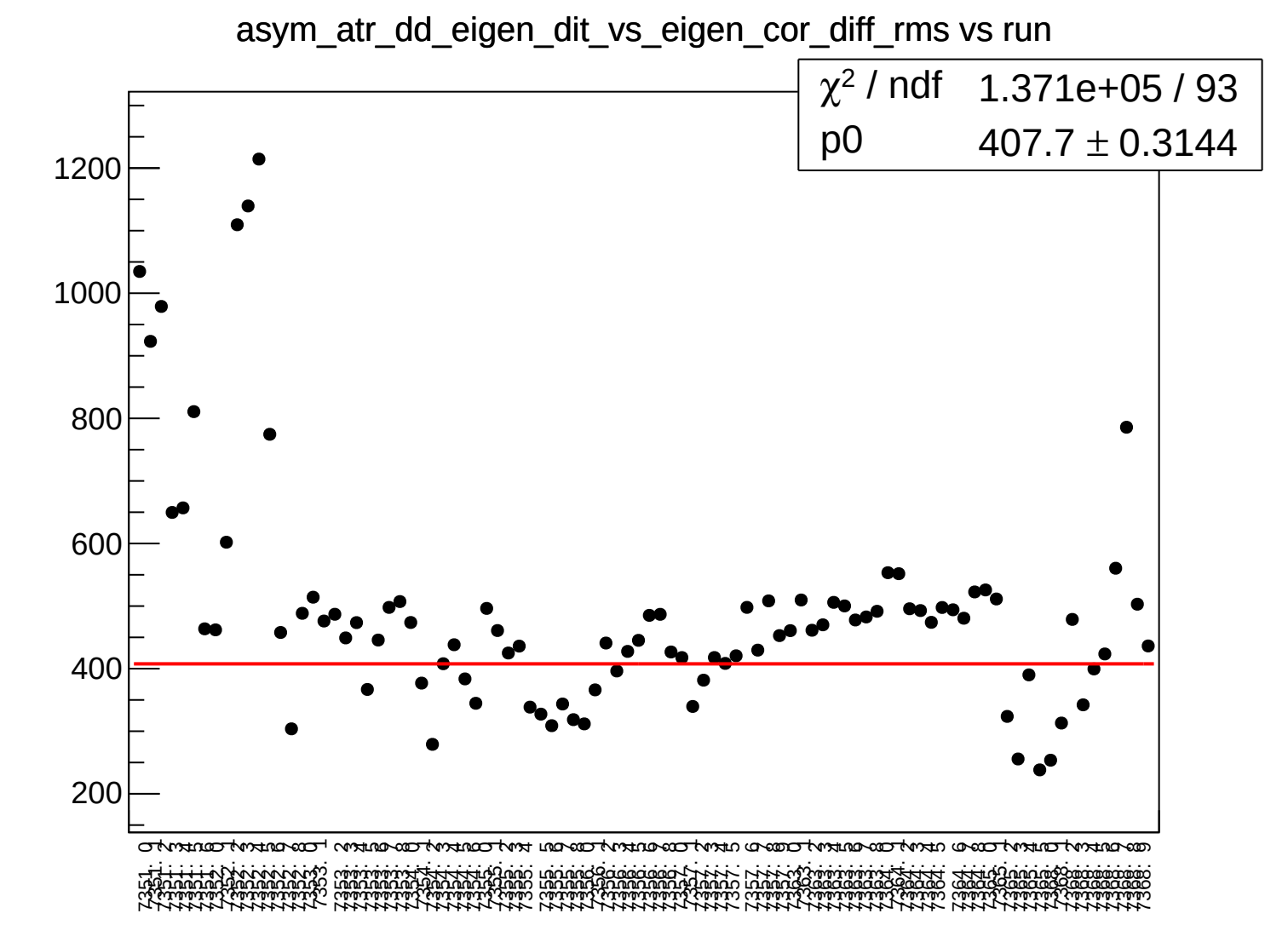

pull1D
Entries 94
Mean 0.03119
Std Dev 0.9062
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

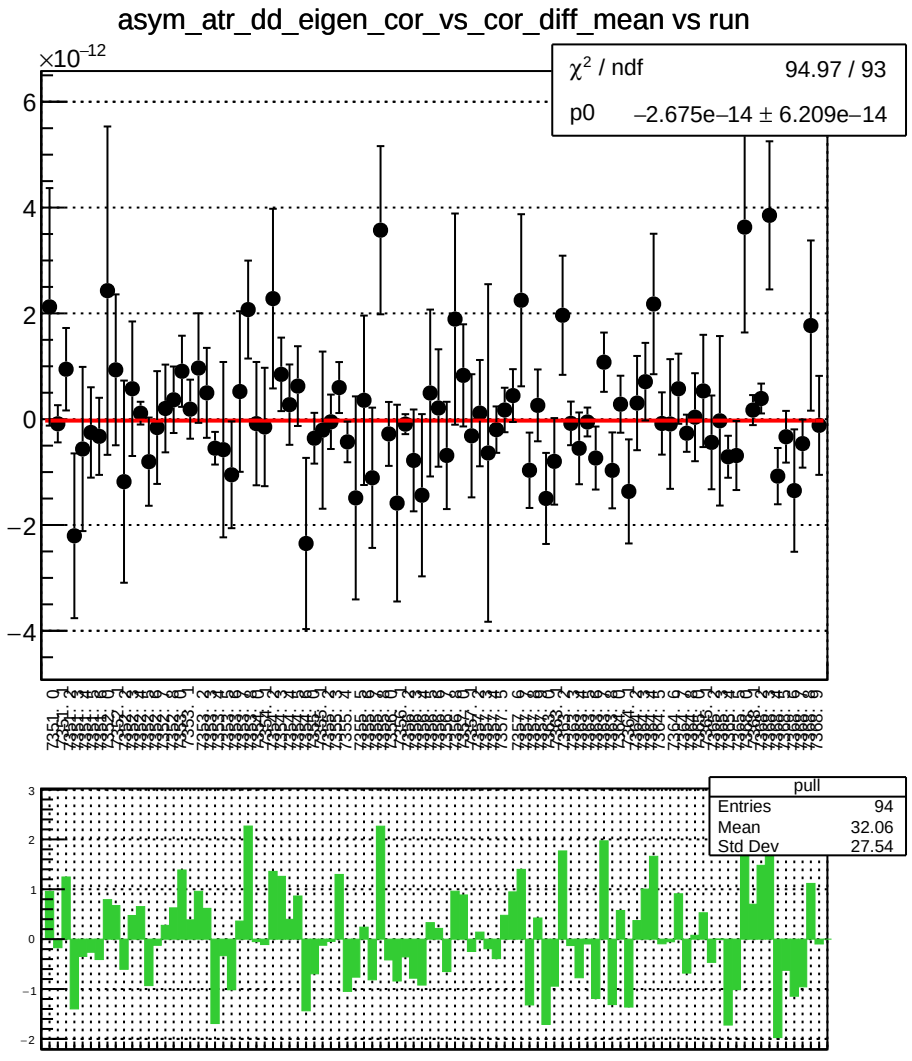

asym_atr_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.502e+05 / 93
p0 0.0128 ± 1.185e−05
0.035
0.03
0.025
0.02
0.015
0.01
0.005

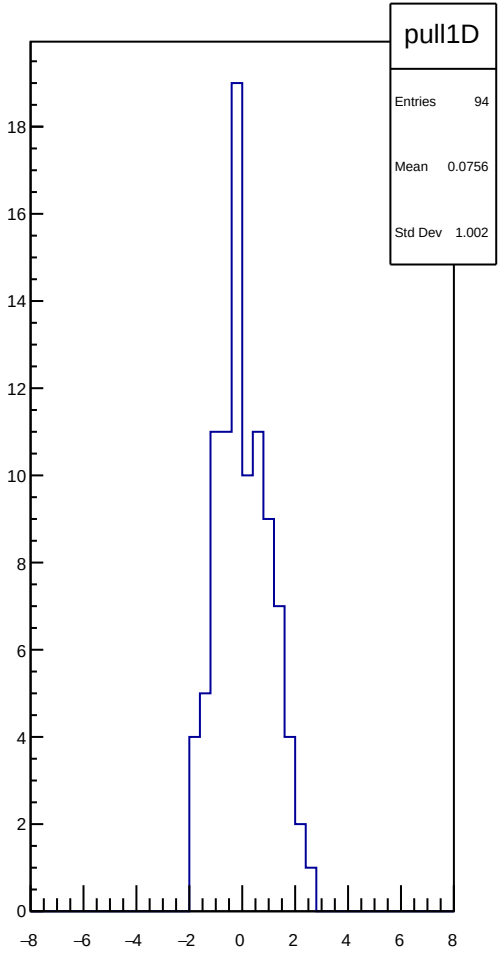

asym_atr_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 97.32 / 93
p0 −0.4206 ± 0.4446
pull
Entries 94
Mean −6.471
Std Dev 32.7
pull1D
Entries 94
Mean 0.02938
Std Dev 1.017

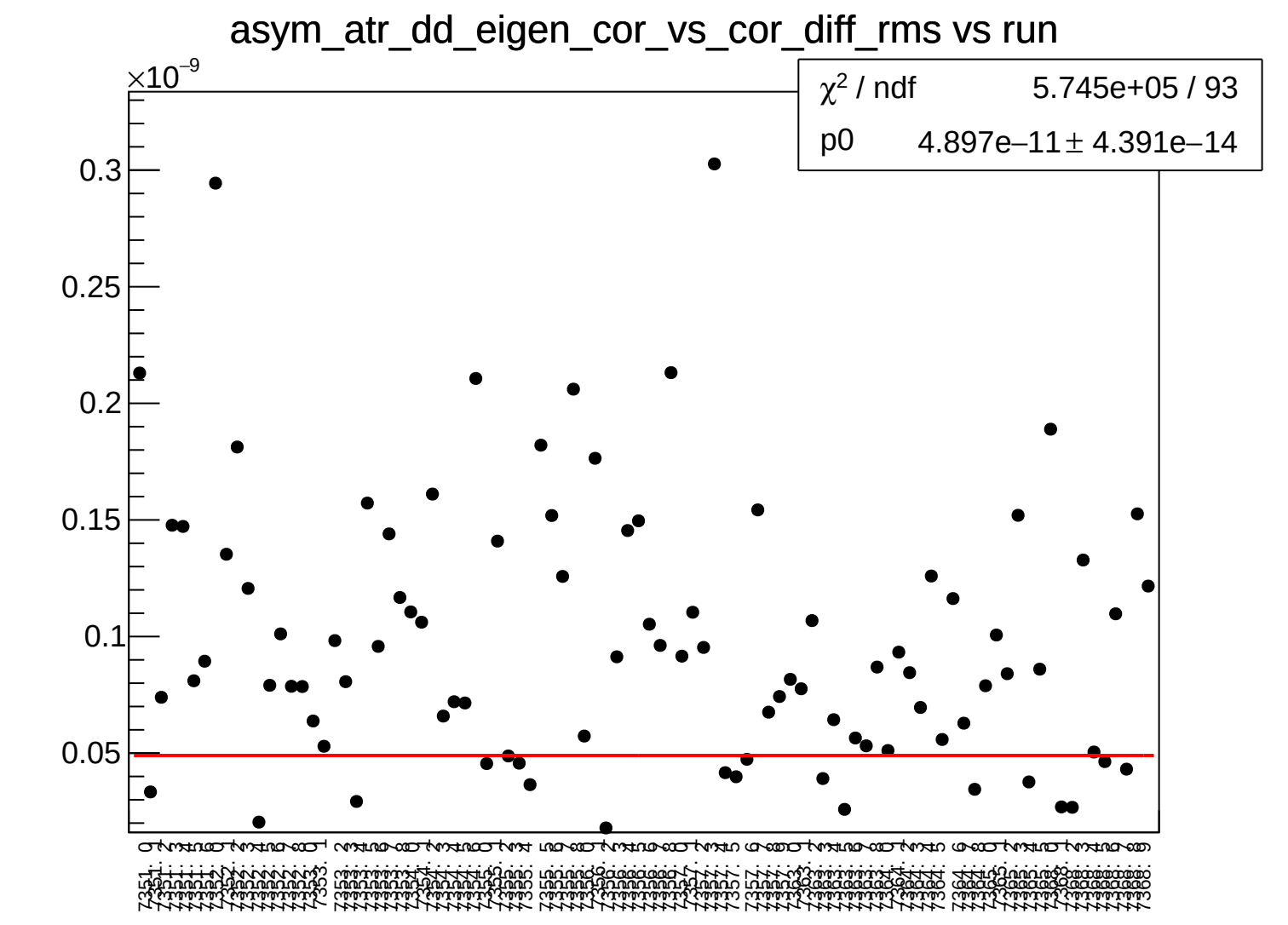

asym_atr_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.371e+05 / 93
p0 407.7 ± 0.3144
1200
1000
800
600
400
200

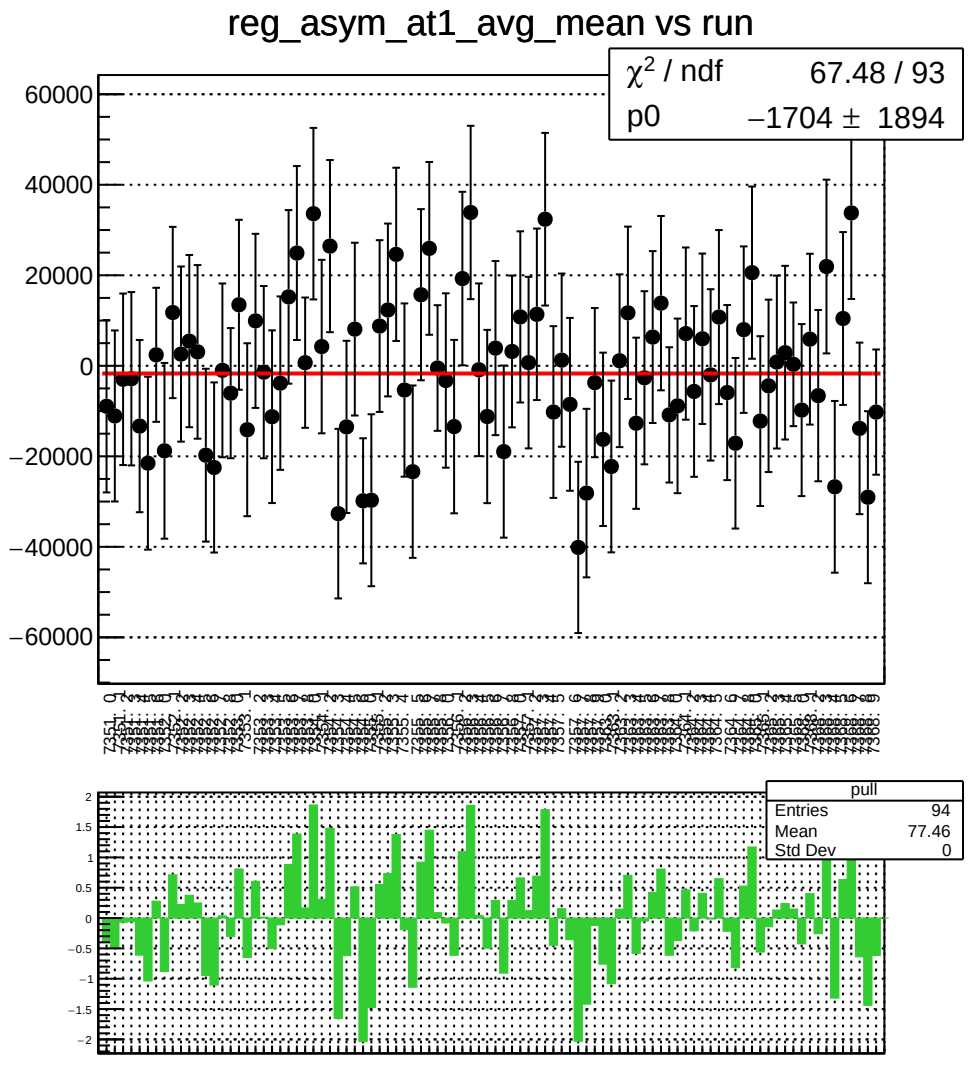

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.32 / 93
p0 −0.4206 ± 0.4446
30
20
10
0
−10
−20
pull
Entries 94
Mean −6.471
Std Dev 32.7
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean 0.02938
Std Dev 1.017
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

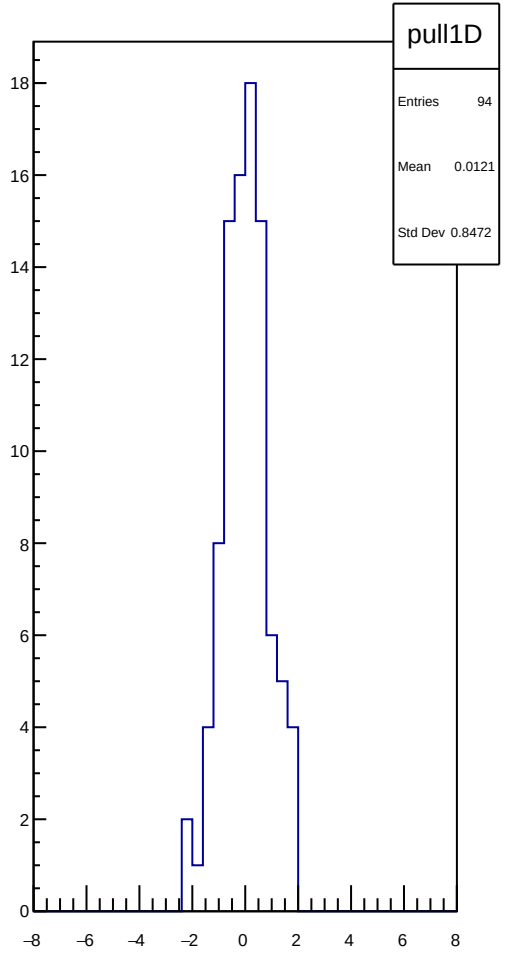

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.371e+05 / 93
p0 407.7 ± 0.3144
1200
1000
800
600
400
200

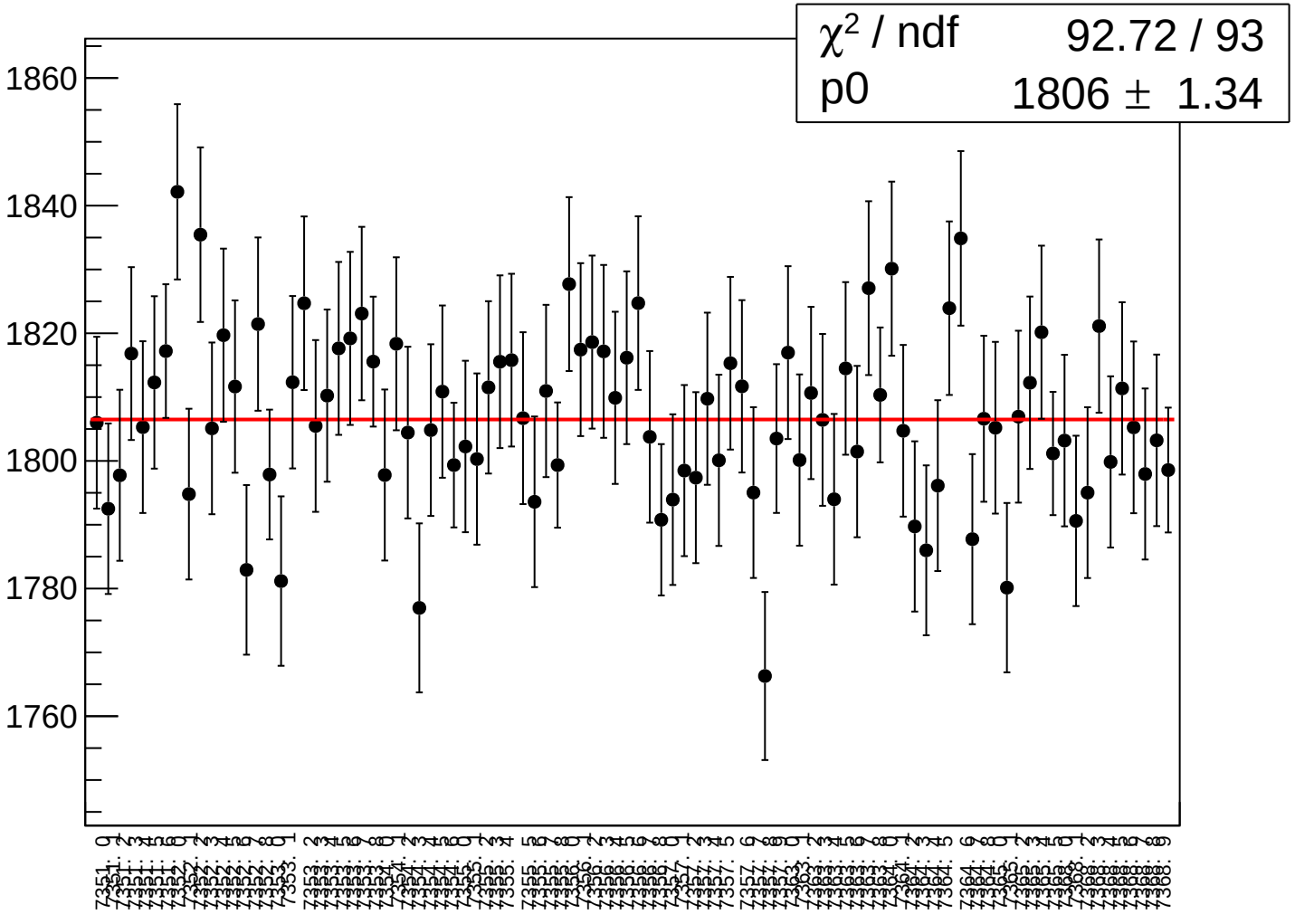

asym_atr_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.97 / 93
p0 −2.675e−14 ± 6.209e−14
pull
Entries 94
Mean 32.06
Std Dev 27.54

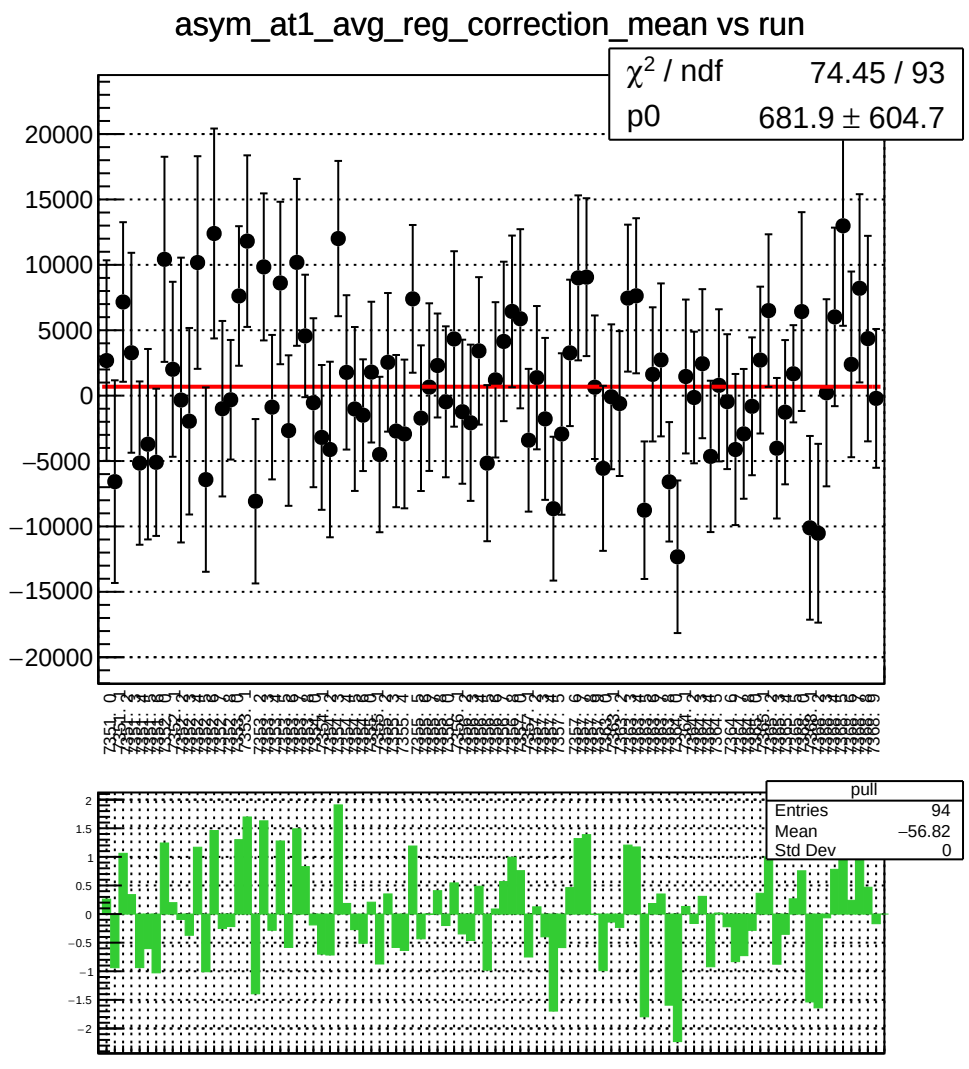

pull1D
Entries 94
Mean 0.0756
Std Dev 1.002

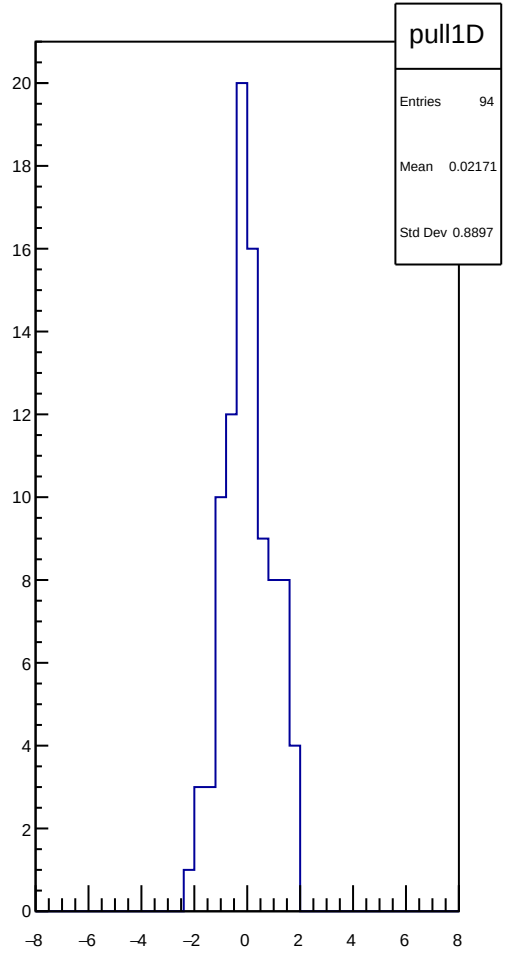

asym_atr_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.745e+05 / 93
p0 4.897e−11 ± 4.391e−14
0.3
0.25
0.2
0.15
0.1
0.05

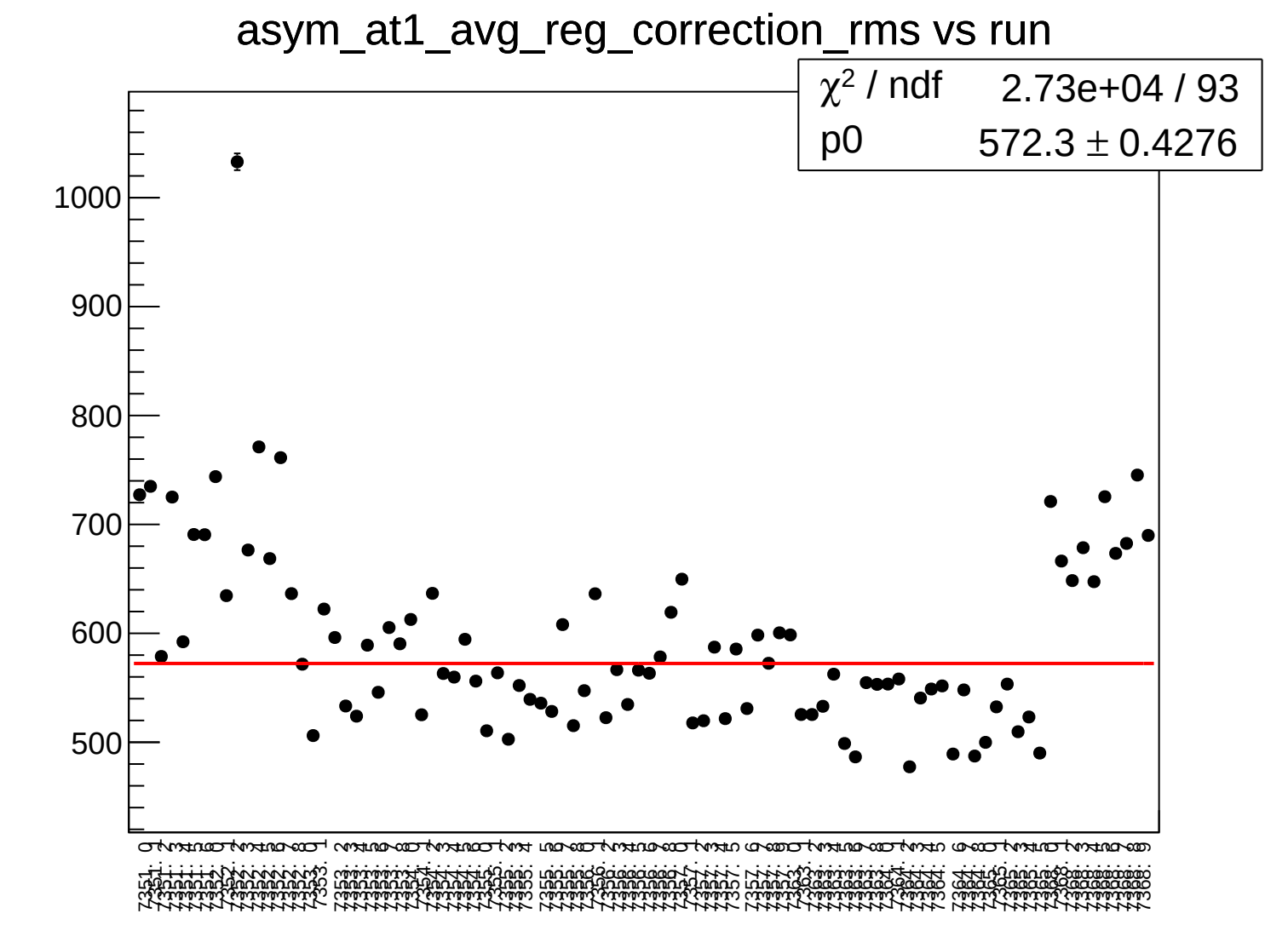

reg_asym_at1_avg_mean vs run
χ² / ndf 67.48 / 93
p0 −1704 ± 1894
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 77.46
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

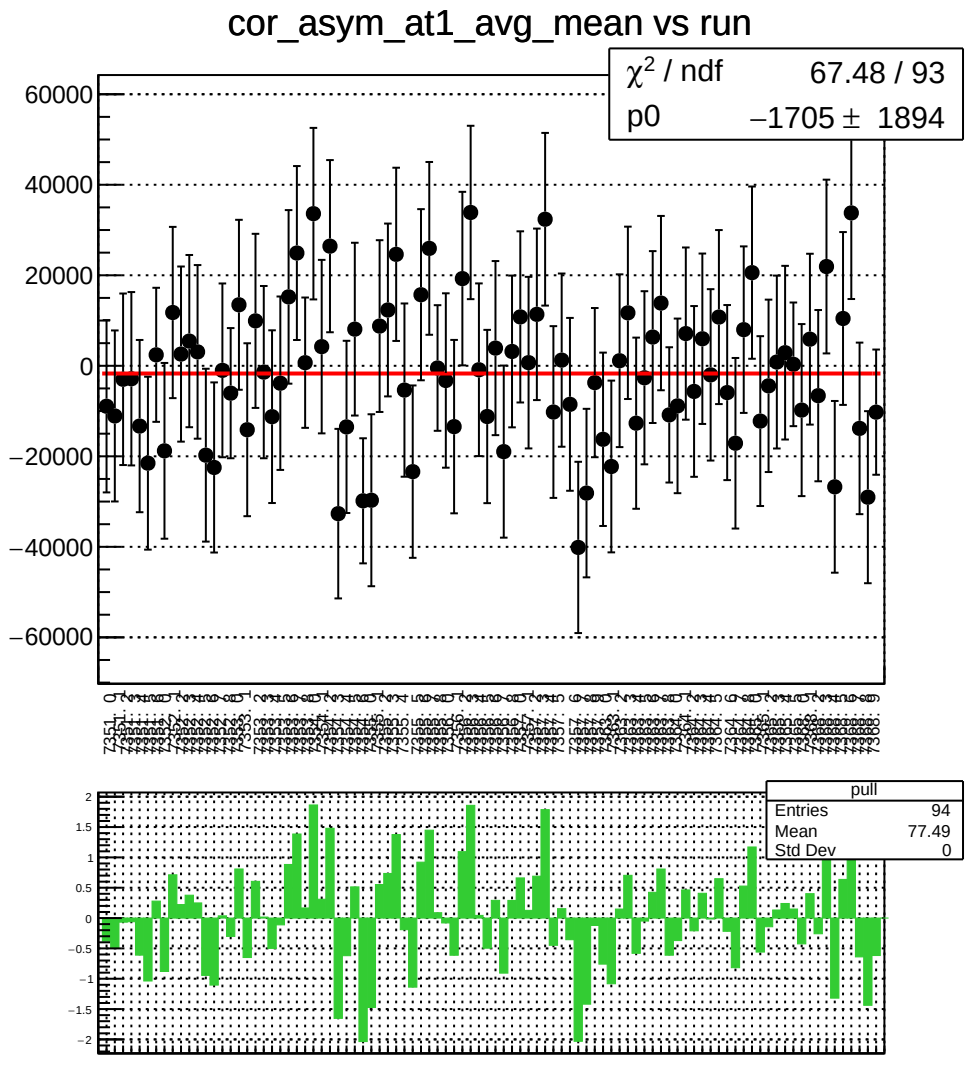

pull1D
Entries 94
Mean 0.0121
Std Dev 0.8472
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

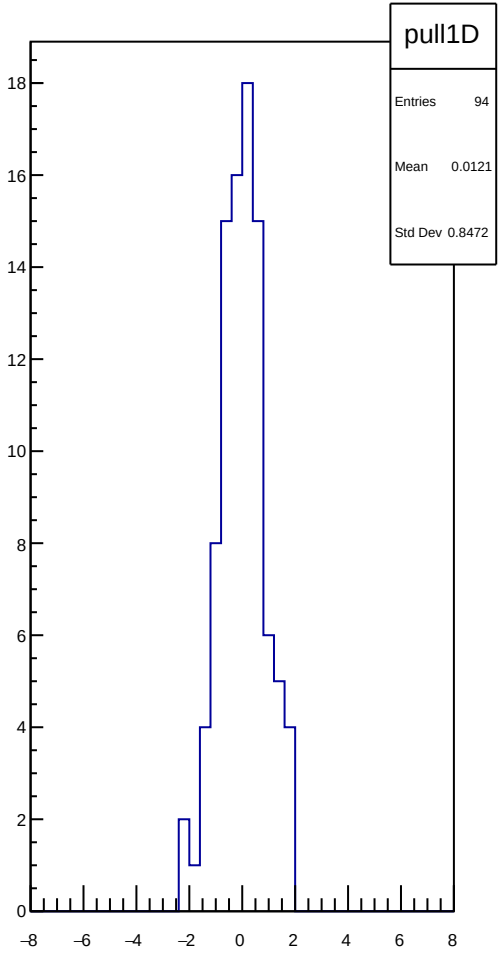

reg_asym_at1_avg_rms vs run
χ² / ndf 92.72 / 93
p0 1806 ± 1.34
1860
1840
1820
1800
1780
1760

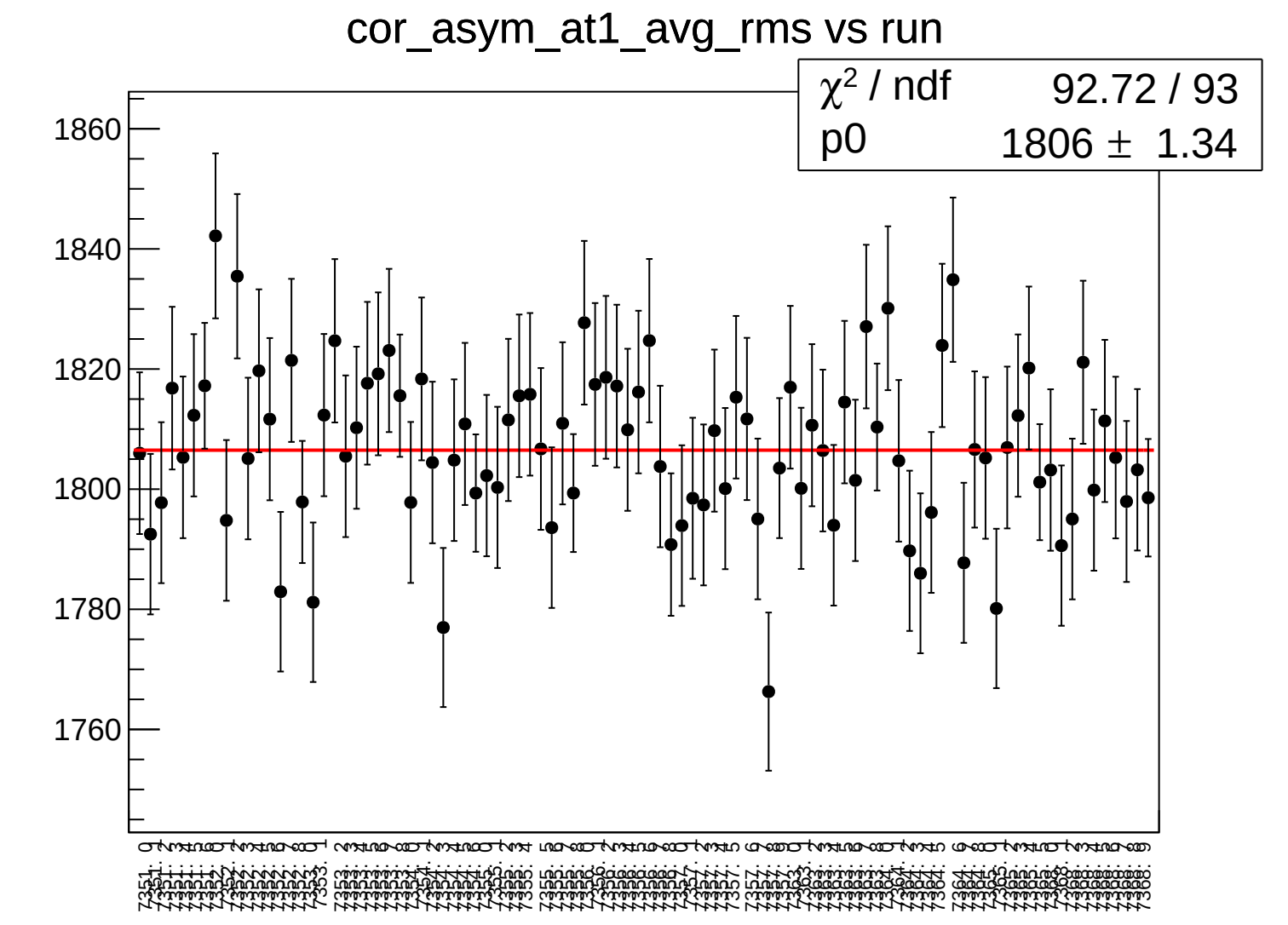

asym_at1_avg_reg_correction_mean vs run
χ² / ndf 74.45 / 93
p0 681.9 ± 604.7
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 94
Mean −56.82
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

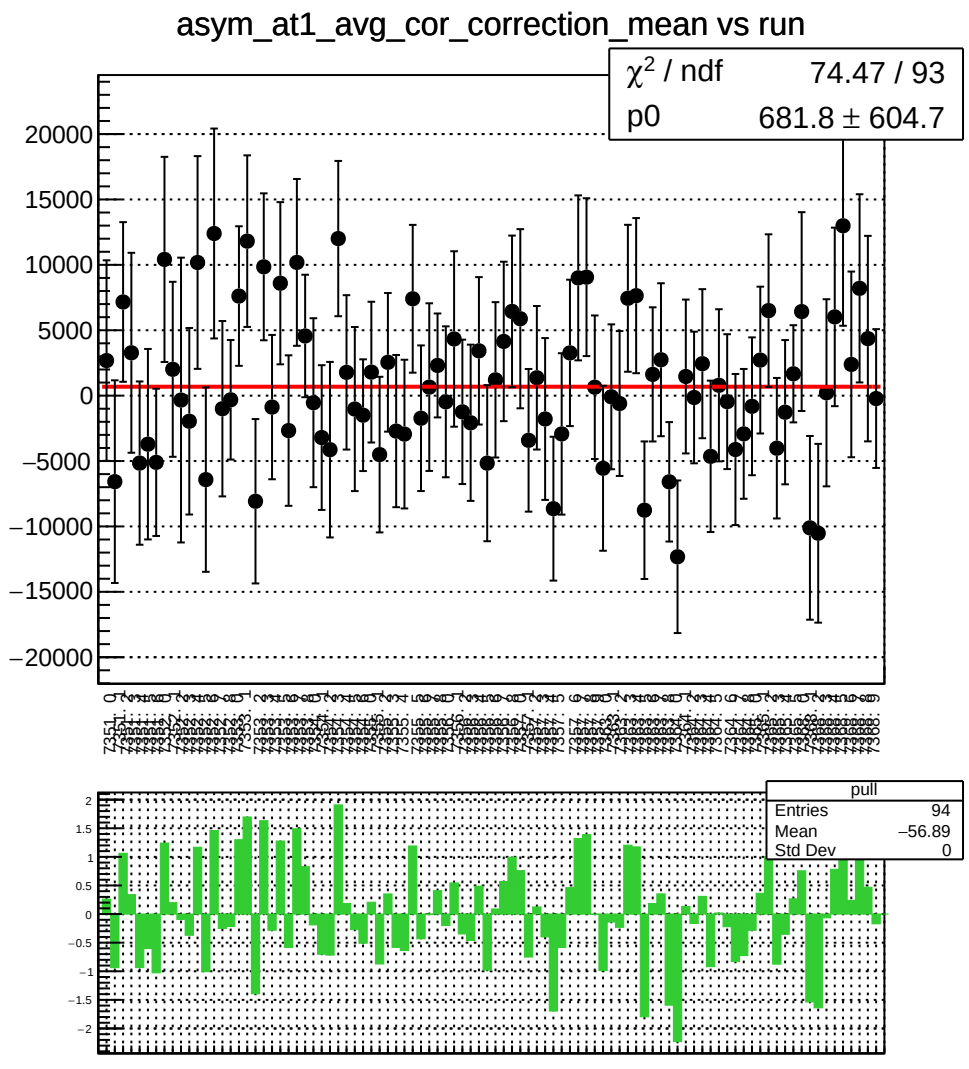

pull1D
Entries 94
Mean 0.02171
Std Dev 0.8897
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

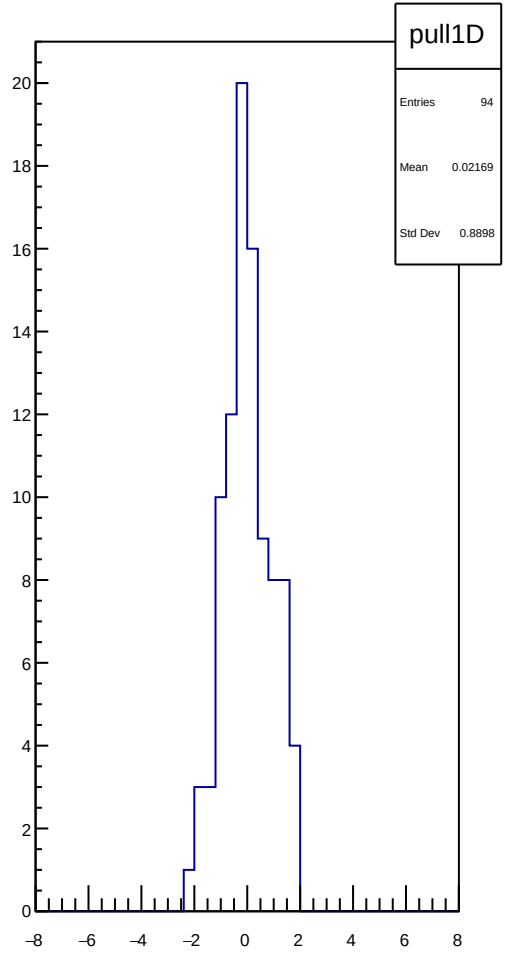

asym_at1_avg_reg_correction_rms vs run
χ² / ndf 2.73e+04 / 93
p0 572.3 ± 0.4276
1000
900
800
700
600
500

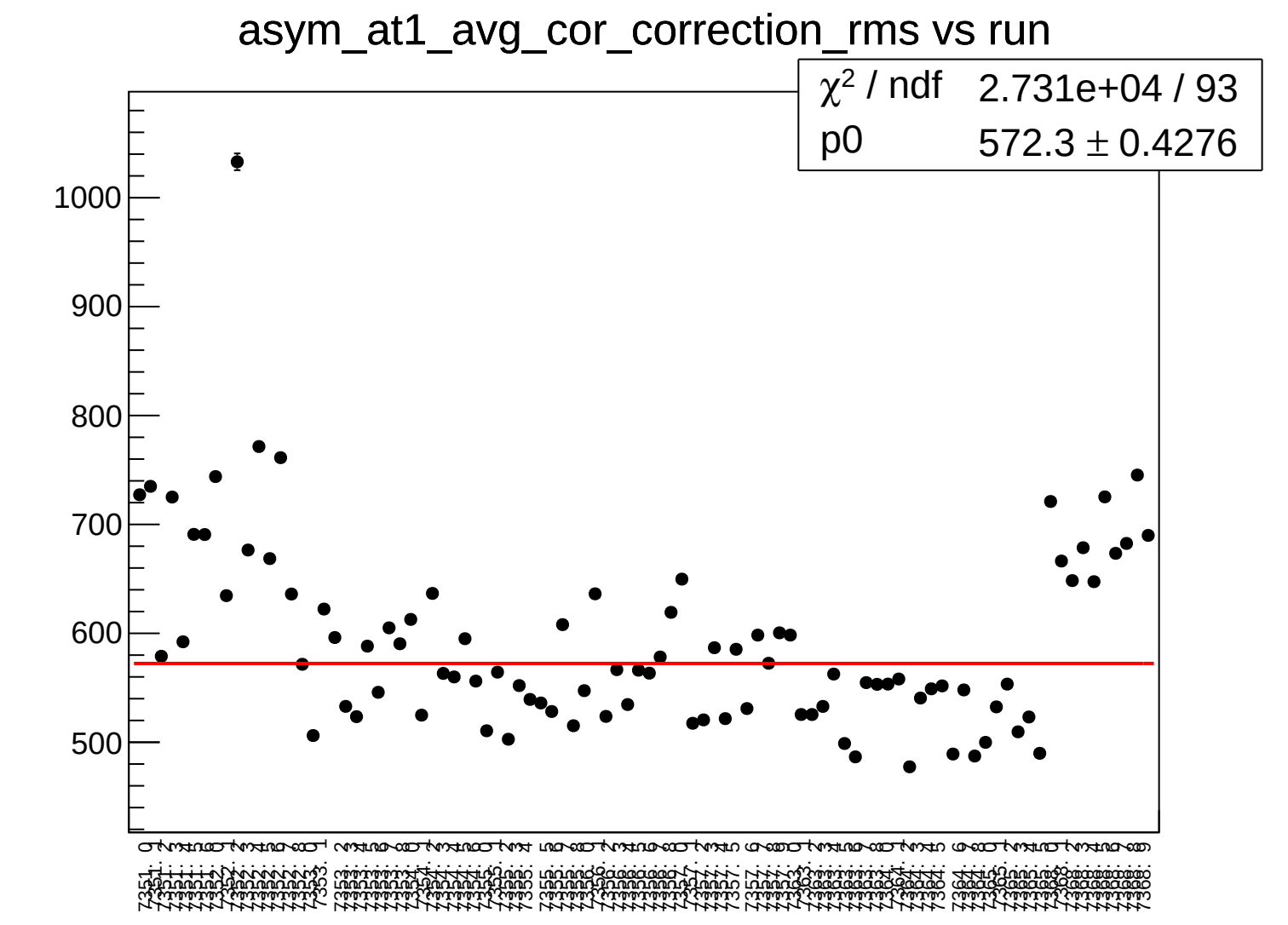

cor_asym_at1_avg_mean vs run
χ² / ndf 67.48 / 93
p0 −1705 ± 1894
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 77.49
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

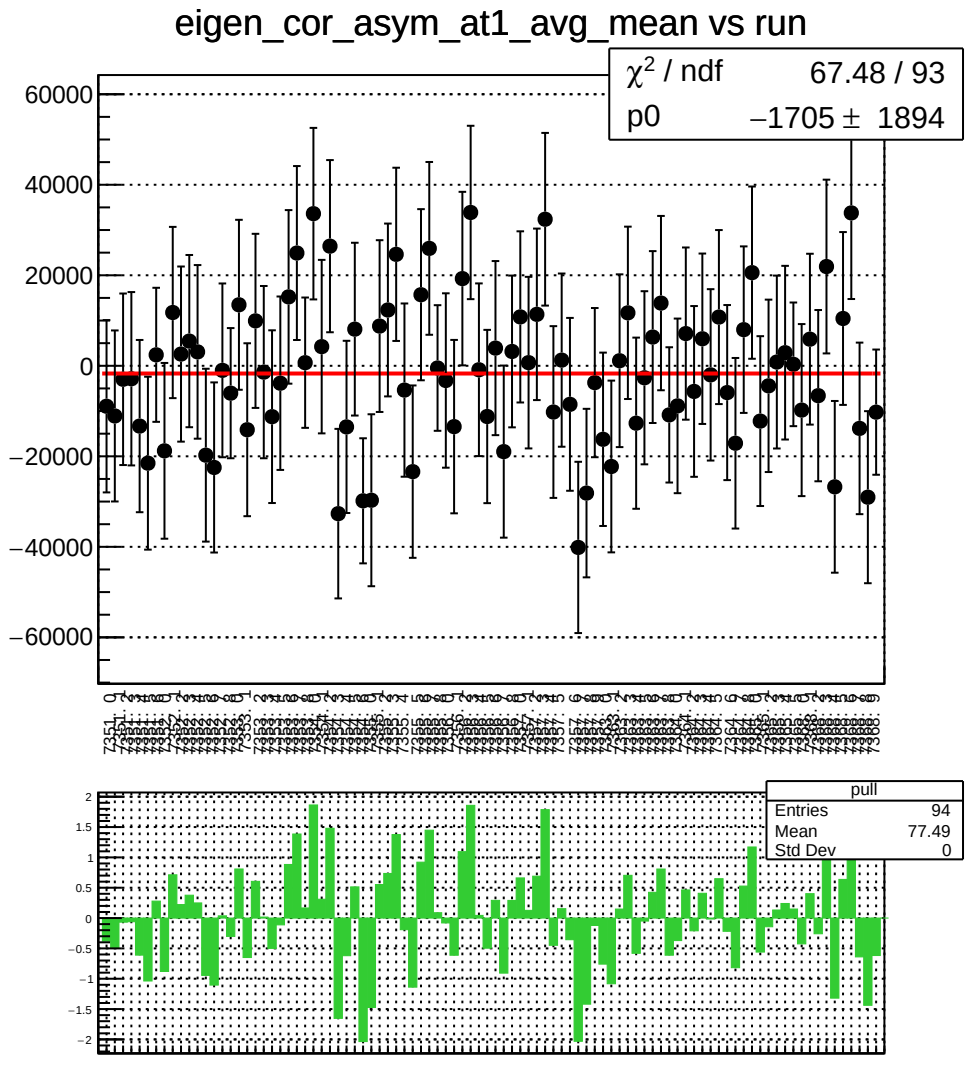

pull1D
Entries 94
Mean 0.0121
Std Dev 0.8472
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

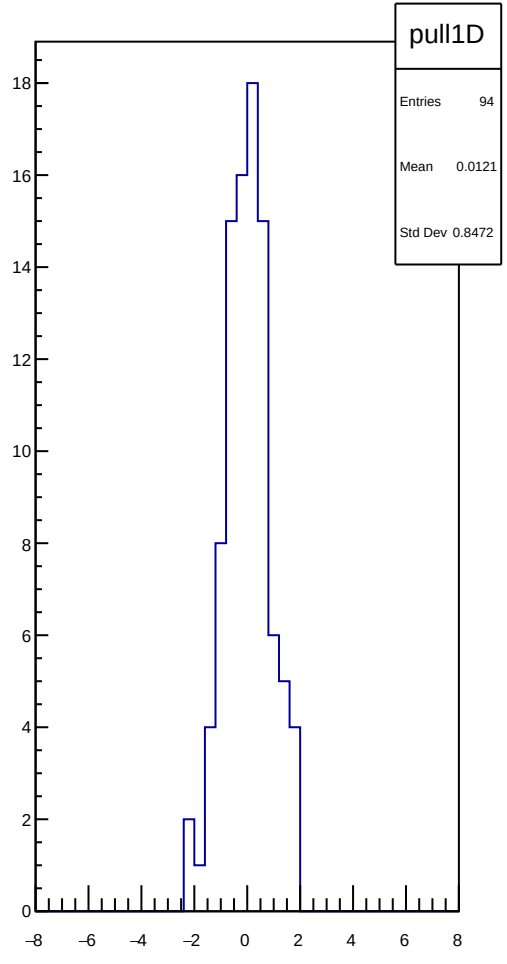

cor_asym_at1_avg_rms vs run
χ² / ndf 92.72 / 93
p0 1806 ± 1.34
1860
1840
1820
1800
1780
1760

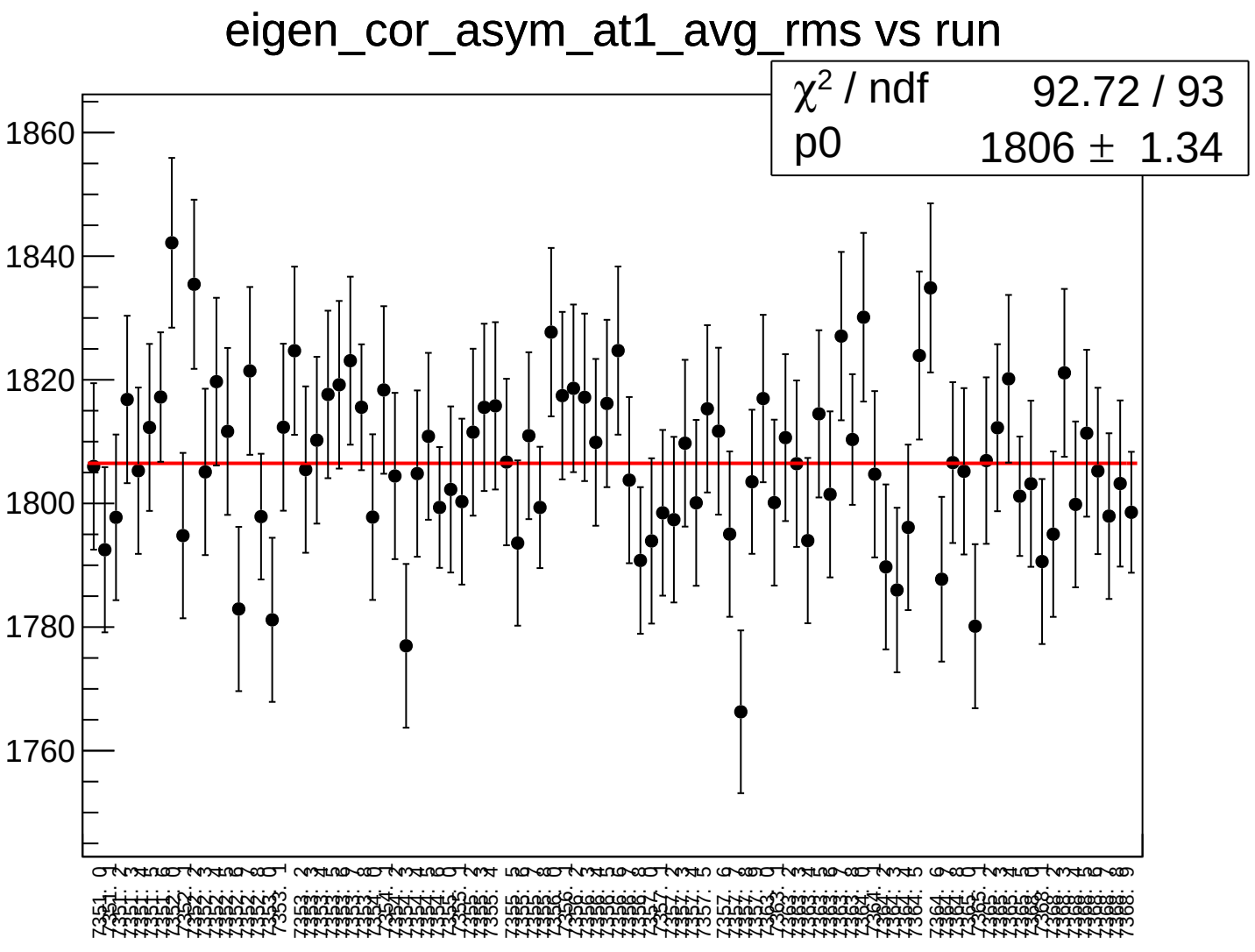

asym_at1_avg_cor_correction_mean vs run
χ² / ndf 74.47 / 93
p0 681.8 ± 604.7
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 94
Mean −56.89
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

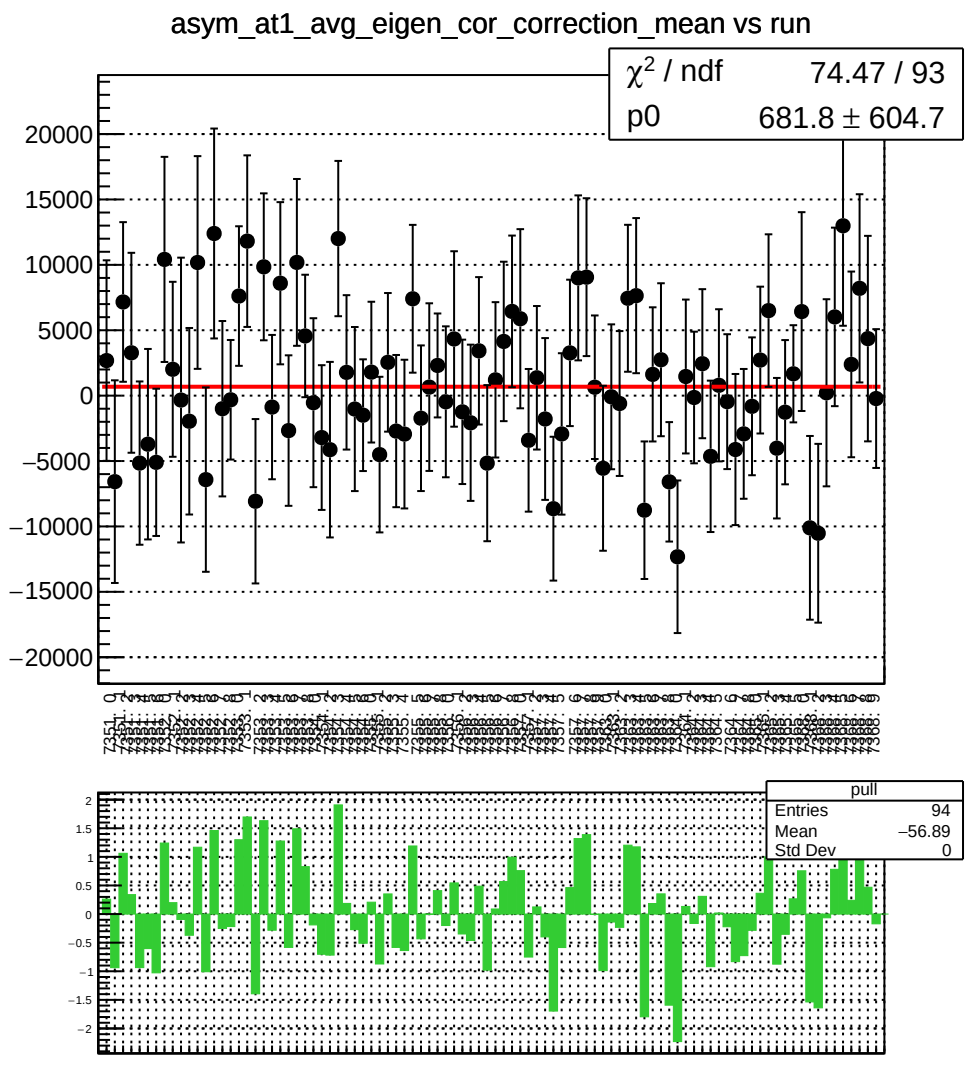

pull1D
Entries 94
Mean 0.02169
Std Dev 0.8898
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

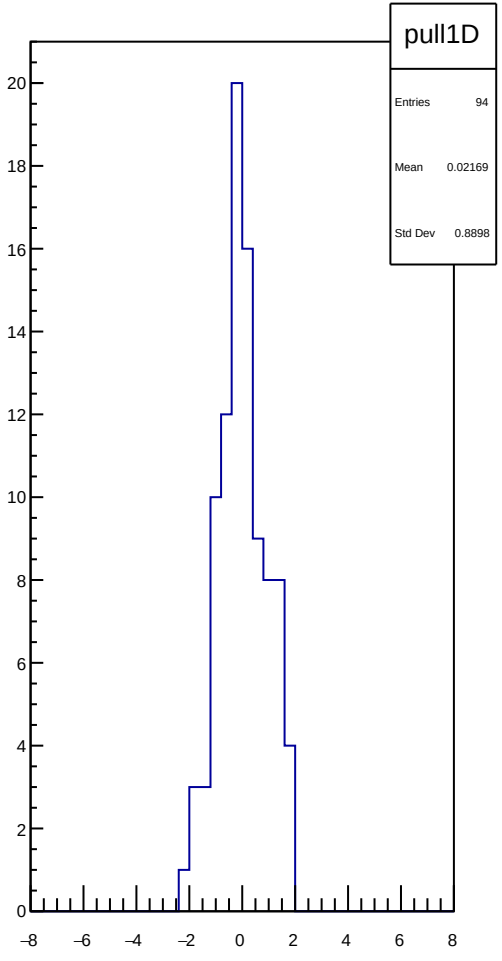

asym_at1_avg_cor_correction_rms vs run
χ² / ndf 2.731e+04 / 93
p0 572.3 ± 0.4276
1000
900
800
700
600
500

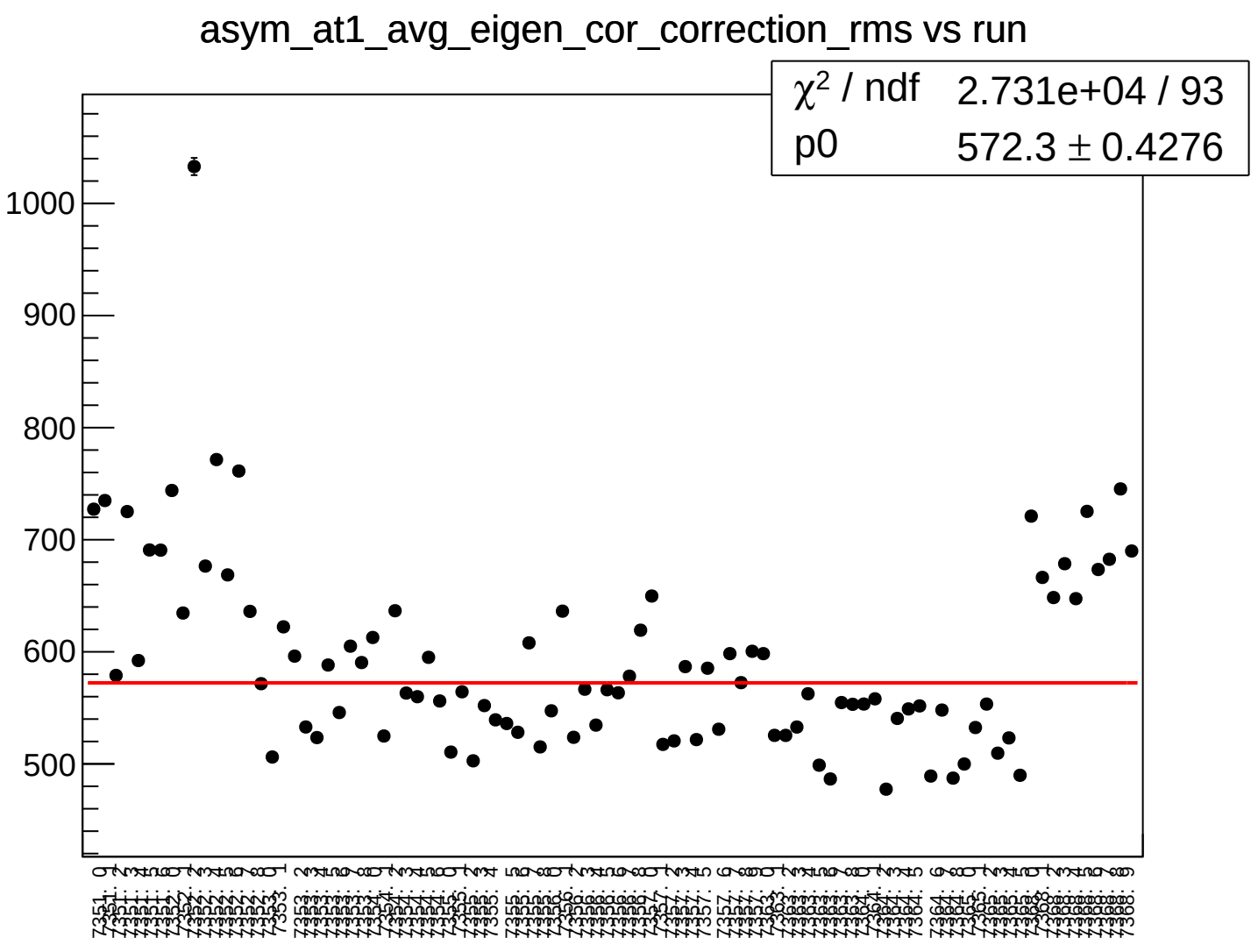

eigen_cor_asym_at1_avg_mean vs run
χ² / ndf 67.48 / 93
p0 −1705 ± 1894
pull
Entries 94
Mean 77.49
Std Dev 0

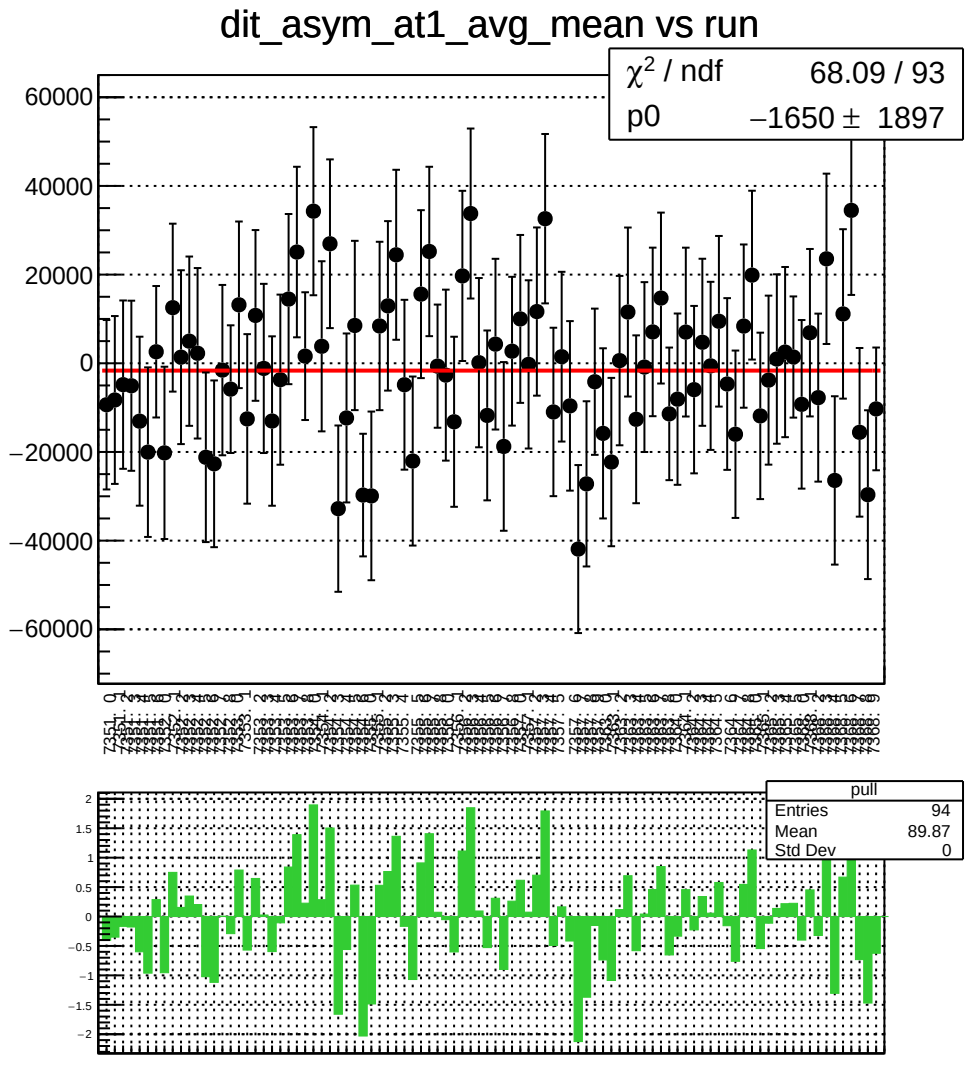

pull1D
Entries 94
Mean 0.0121
Std Dev 0.8472

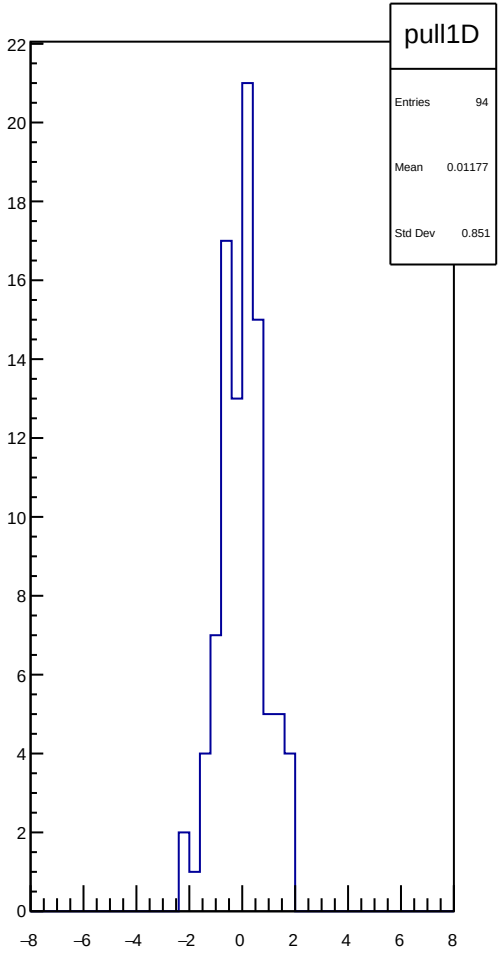

eigen_cor_asym_at1_avg_rms vs run
χ² / ndf 92.72 / 93
p0 1806 ± 1.34
1860
1840
1820
1800
1780
1760

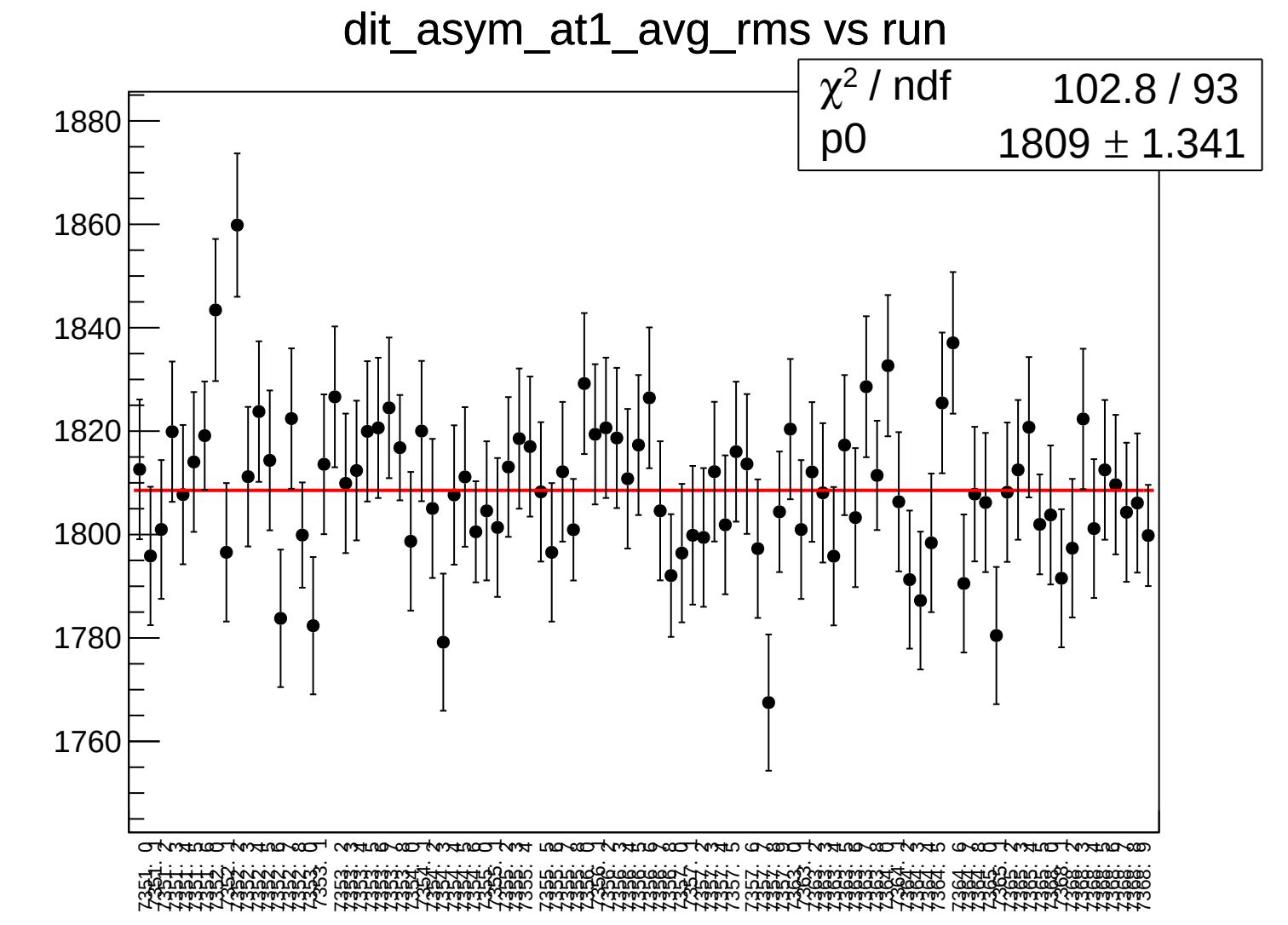

asym_at1_avg_eigen_cor_correction_mean vs run
χ² / ndf 74.47 / 93
p0 681.8 ± 604.7
pull
Entries 94
Mean −56.89
Std Dev 0

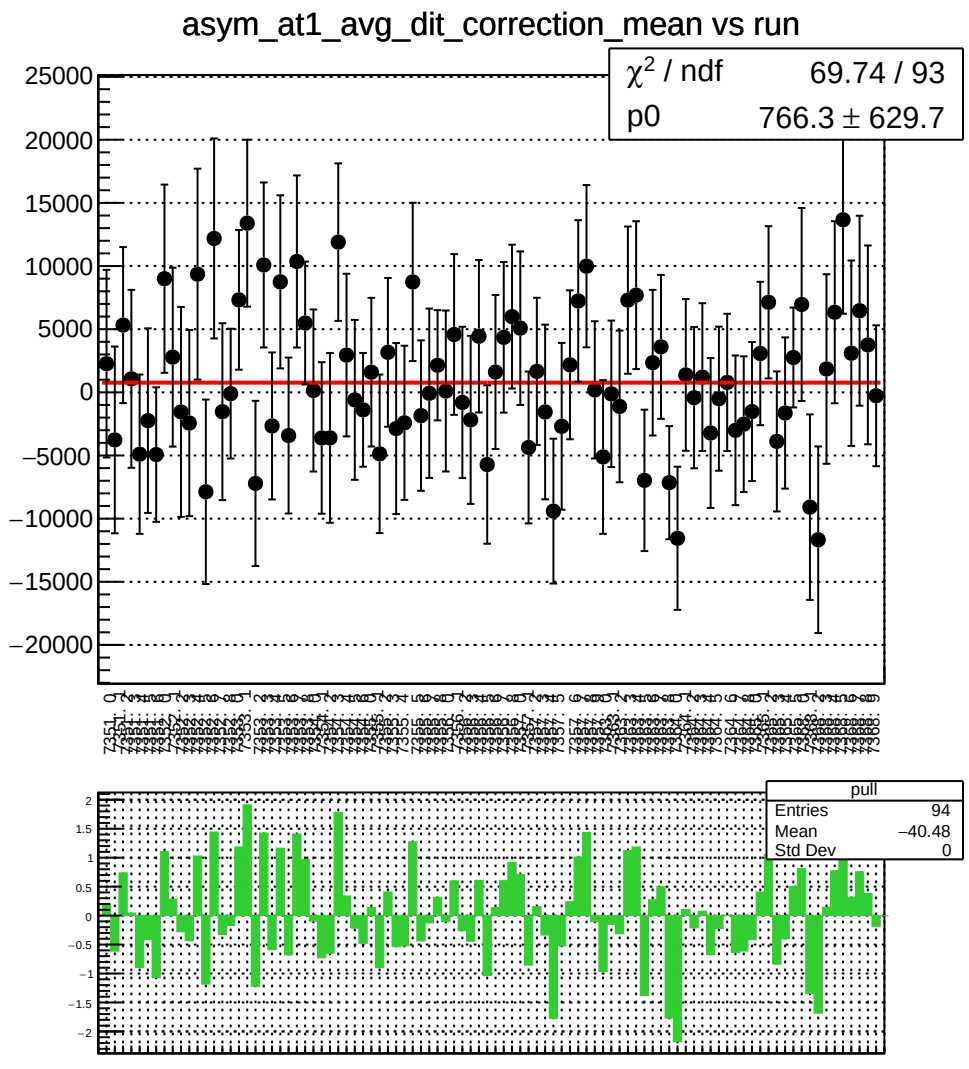

pull1D
Entries 94
Mean 0.02169
Std Dev 0.8898

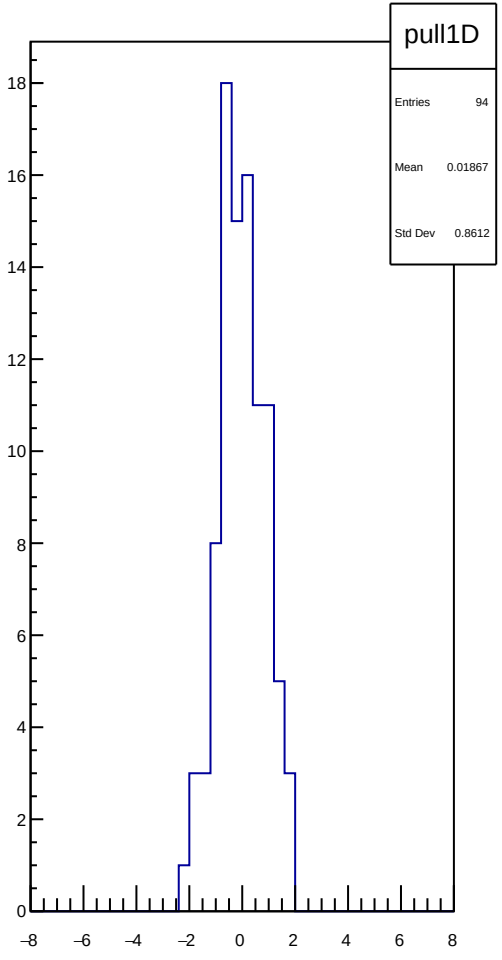

asym_at1_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 2.731e+04 / 93
p0 572.3 ± 0.4276
1000
900
800
700
600
500

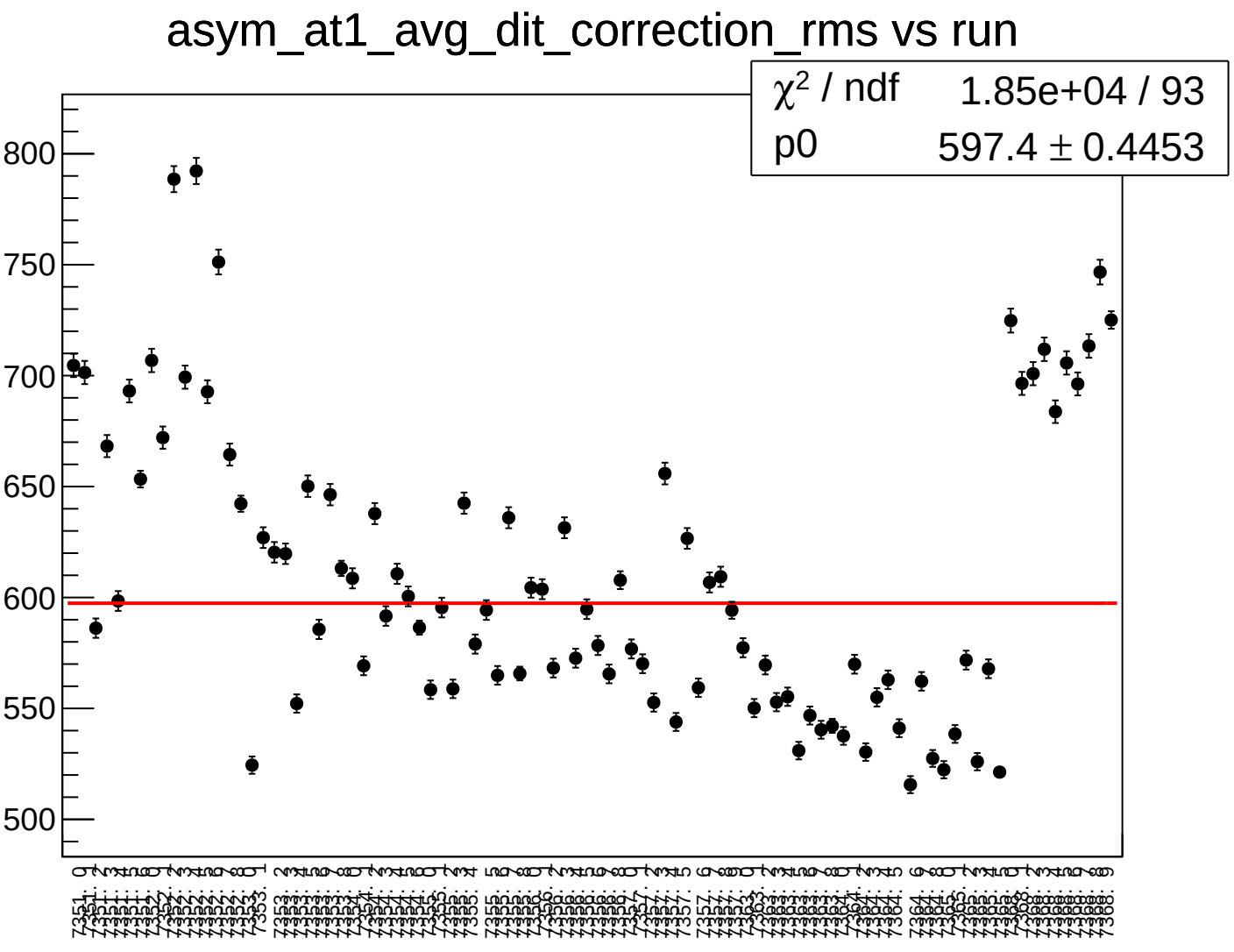

dit_asym_at1_avg_mean vs run
χ² / ndf 68.09 / 93
p0 −1650 ± 1897
pull
Entries 94
Mean 89.87
Std Dev 0

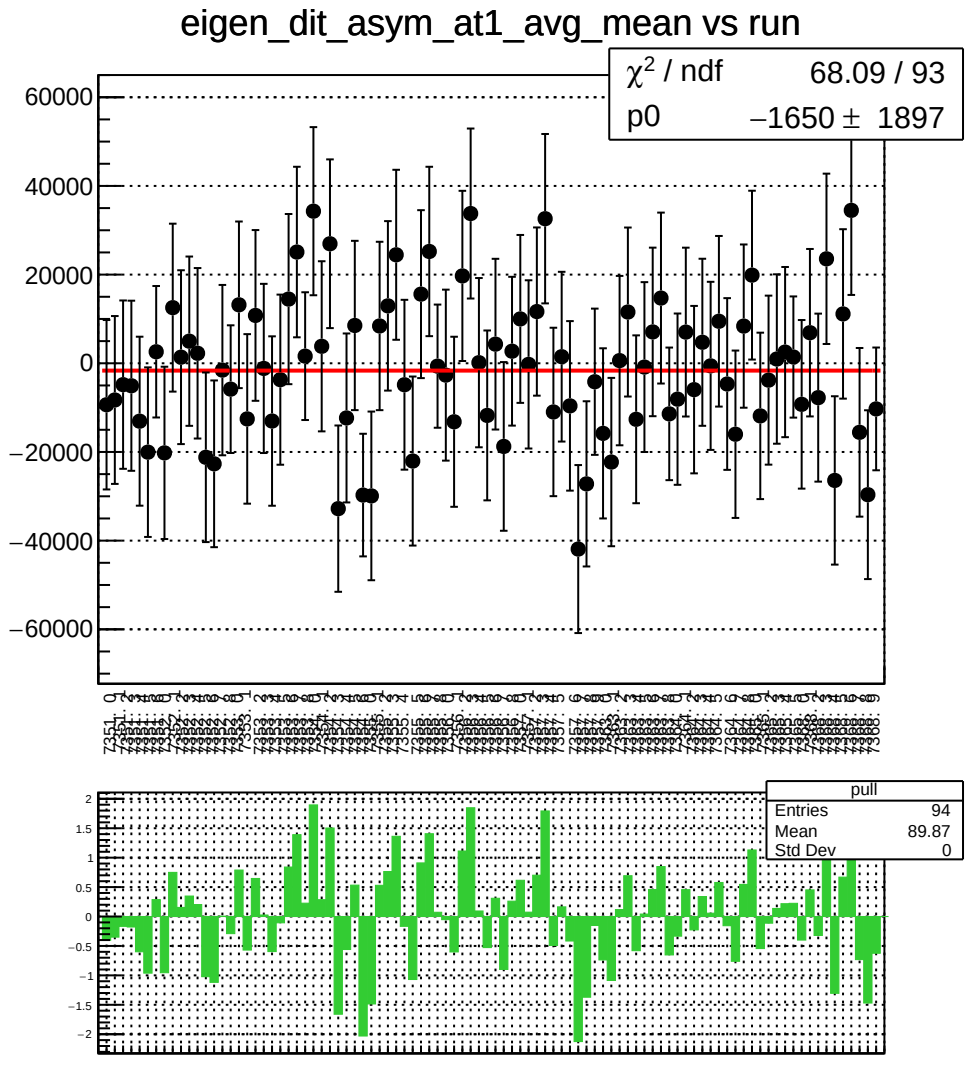

pull1D
Entries 94
Mean 0.01177
Std Dev 0.851

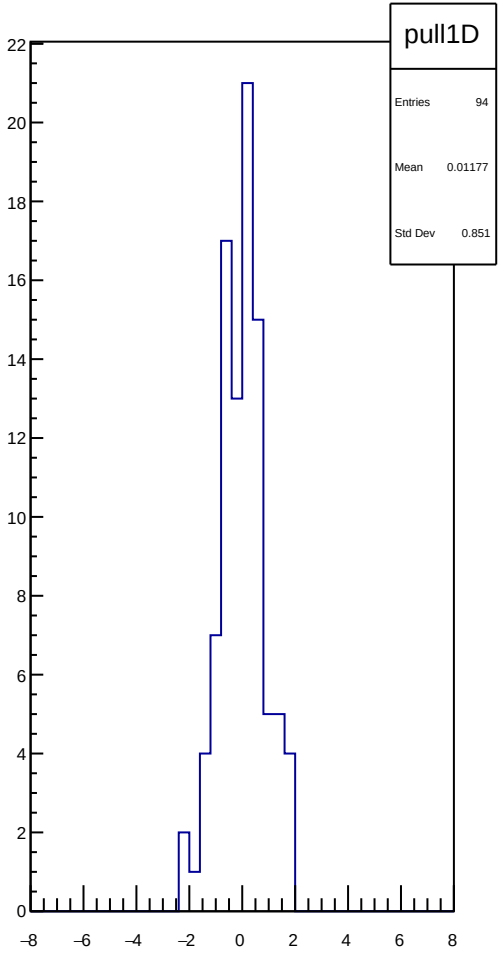

dit_asym_at1_avg_rms vs run
χ² / ndf 102.8 / 93
p0 1809 ± 1.341
1880
1860
1840
1820
1800
1780
1760

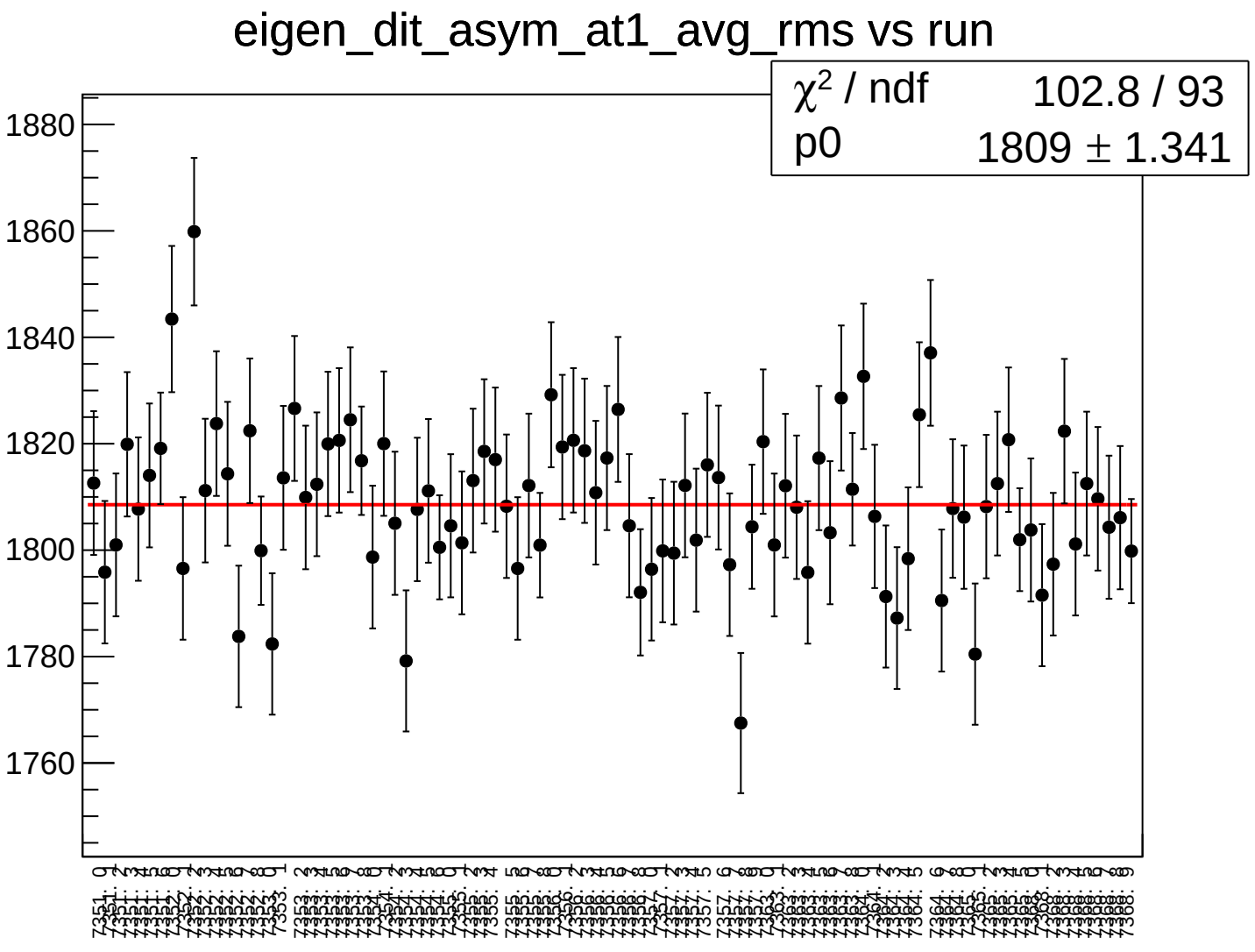

asym_at1_avg_dit_correction_mean vs run
χ² / ndf 69.74 / 93
p0 766.3 ± 629.7
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 94
Mean −40.48
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

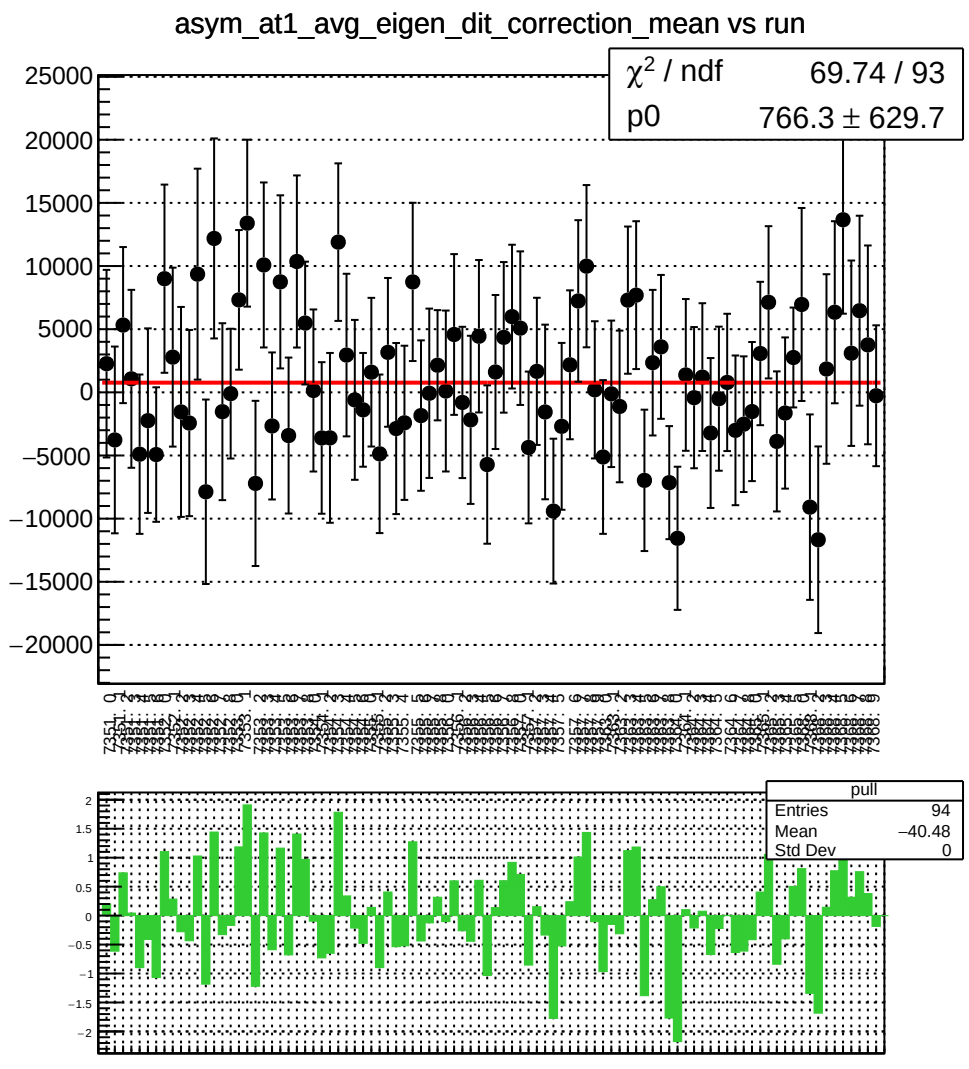

pull1D
Entries 94
Mean 0.01867
Std Dev 0.8612
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

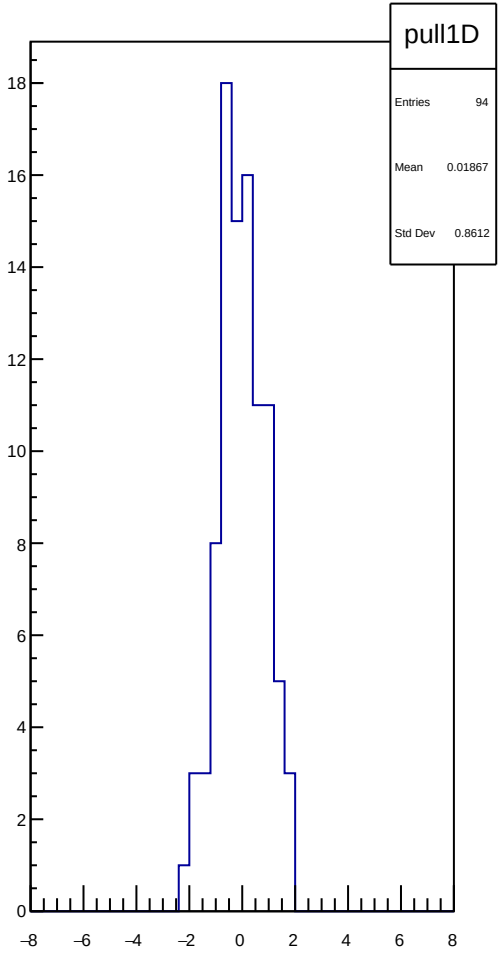

asym_at1_avg_dit_correction_rms vs run
χ² / ndf 1.85e+04 / 93
p0 597.4 ± 0.4453
800
750
700
650
600
550
500

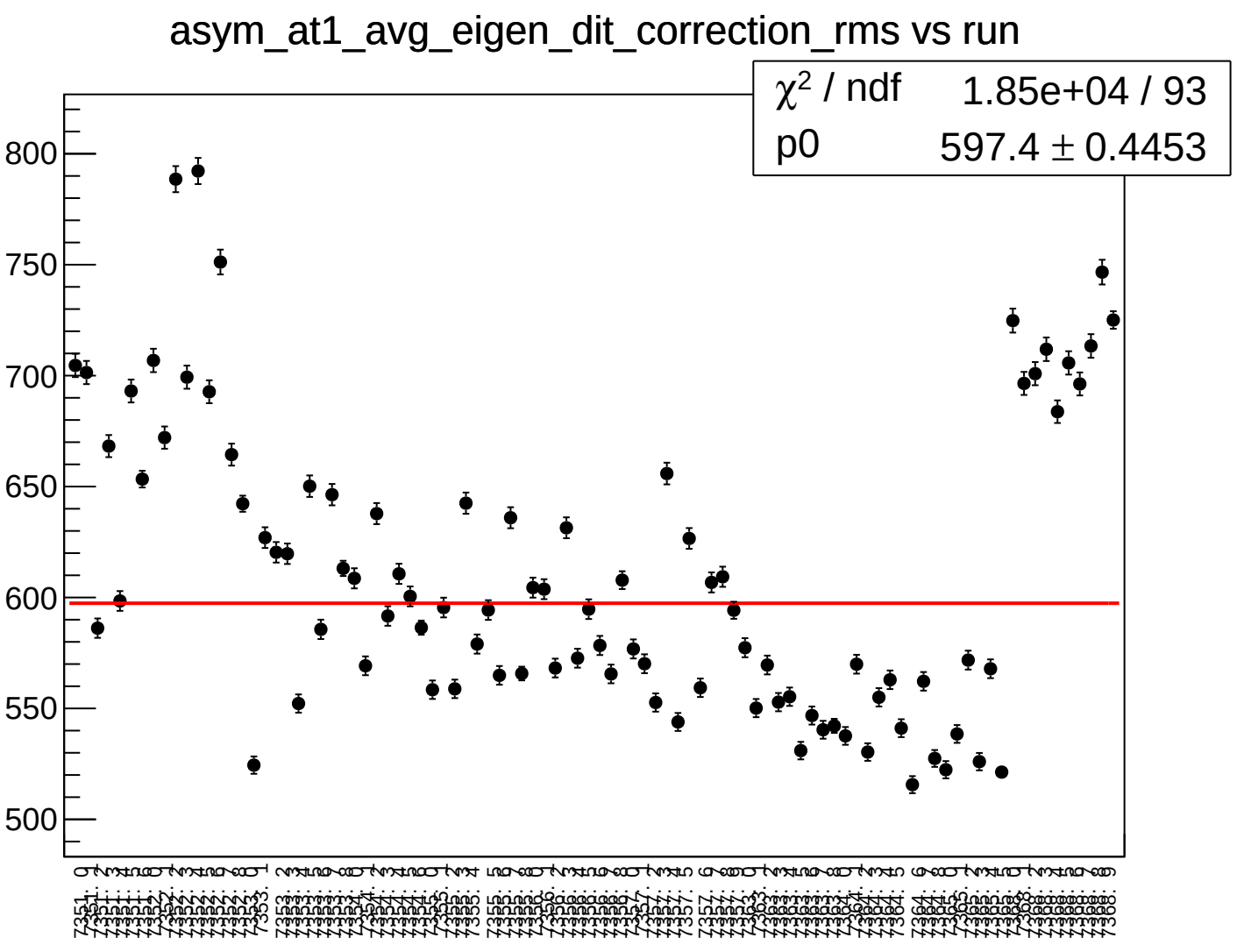

eigen_dit_asym_at1_avg_mean vs run
χ² / ndf 68.09 / 93
p0 −1650 ± 1897
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 89.87
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

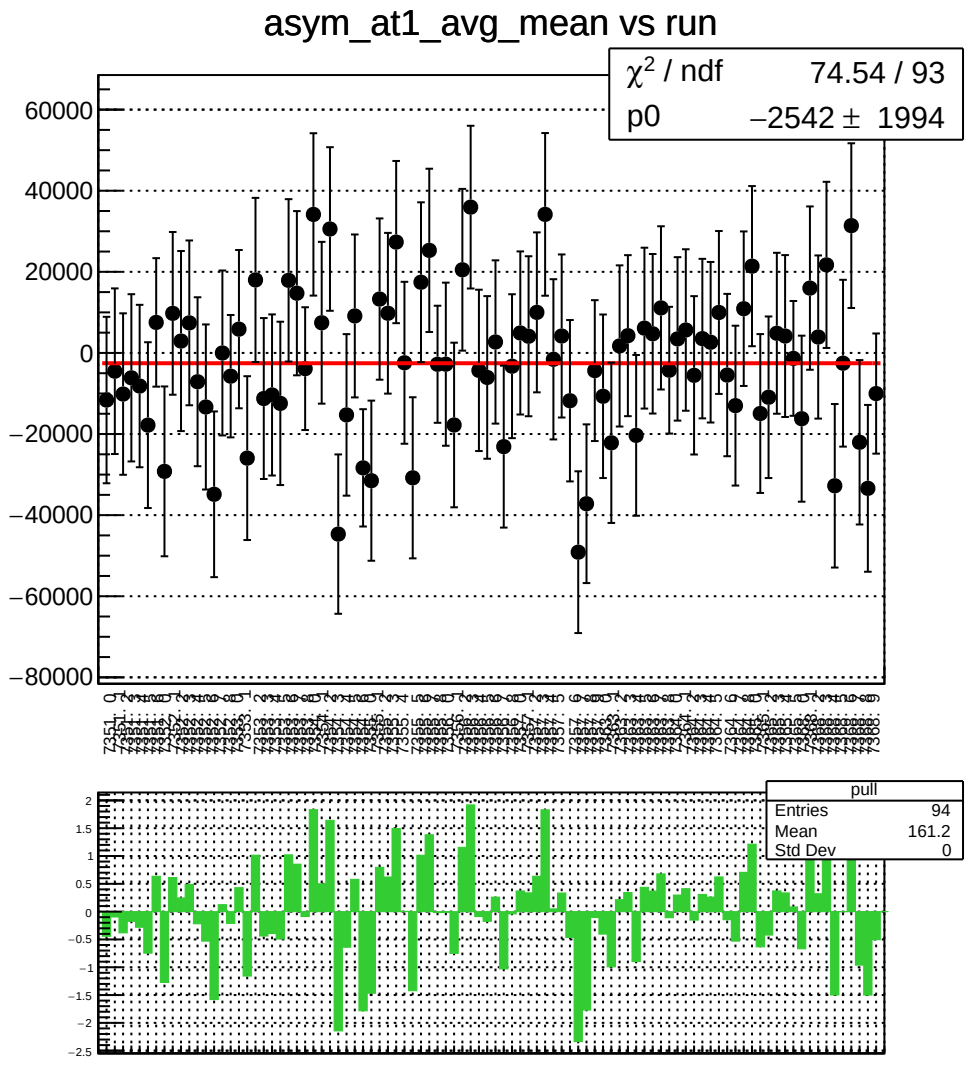

pull1D
Entries 94
Mean 0.01177
Std Dev 0.851
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

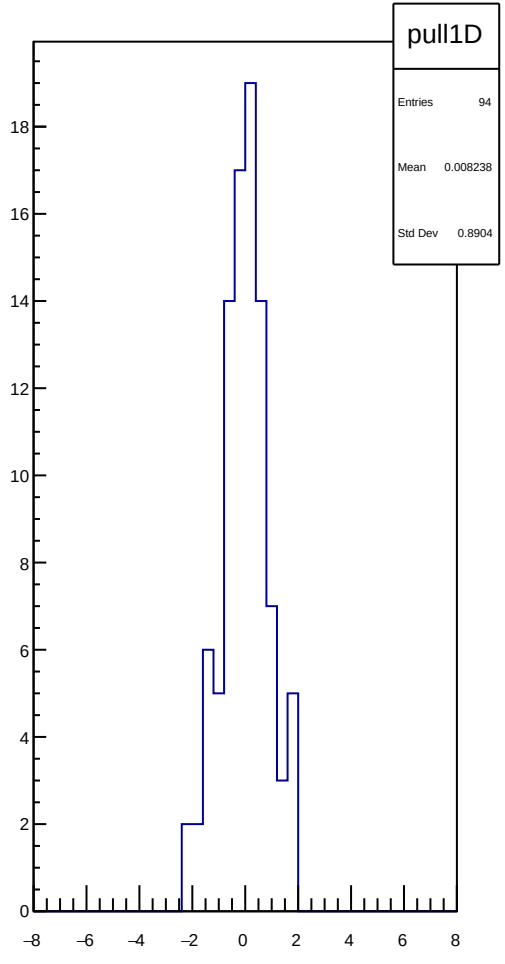

eigen_dit_asym_at1_avg_rms vs run
χ² / ndf 102.8 / 93
p0 1809 ± 1.341
1880
1860
1840
1820
1800
1780
1760

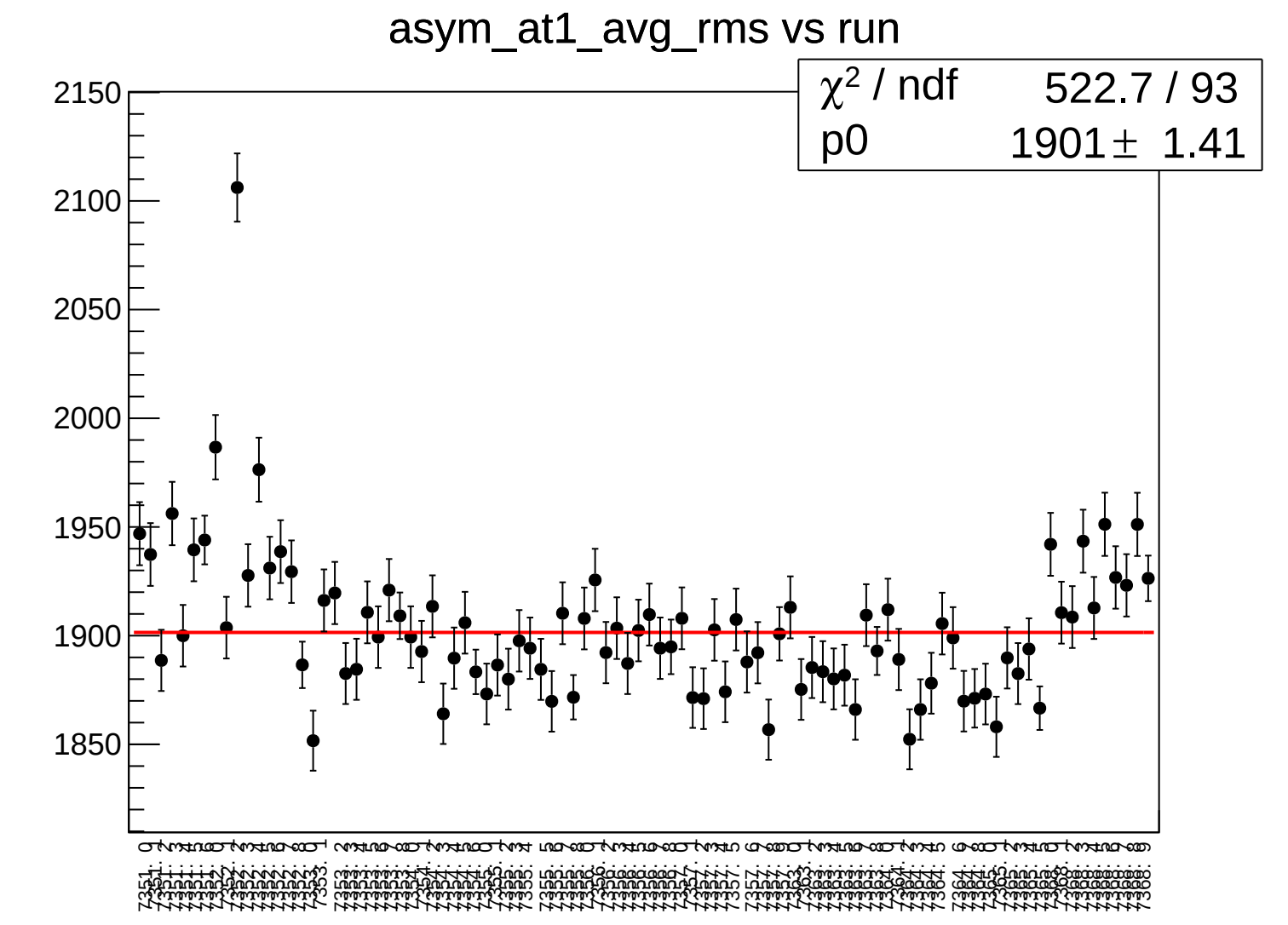

asym_at1_avg_eigen_dit_correction_mean vs run
χ² / ndf 69.74 / 93
p0 766.3 ± 629.7
pull
Entries 94
Mean −40.48
Std Dev 0

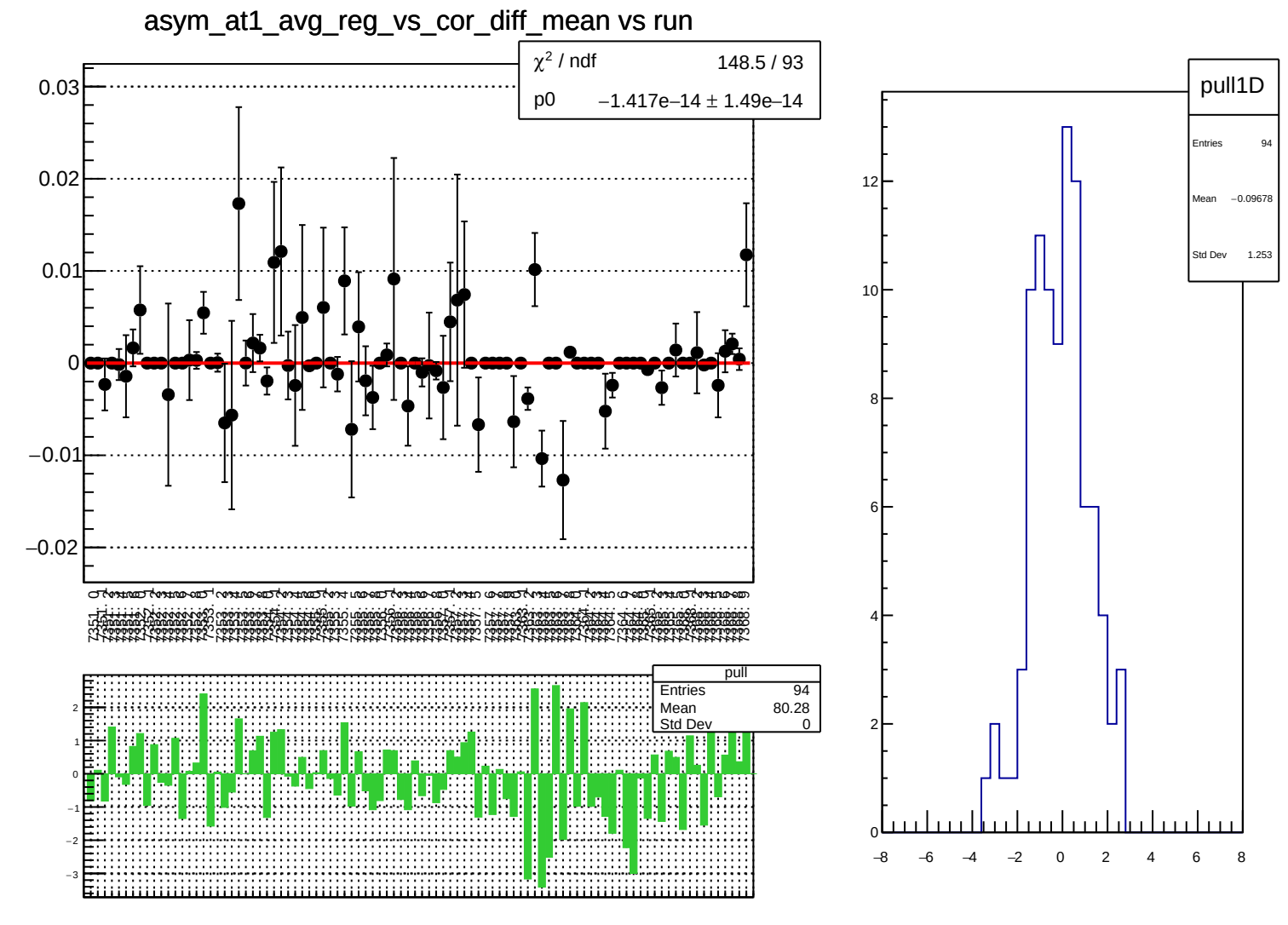

pull1D
Entries 94
Mean 0.01867
Std Dev 0.8612

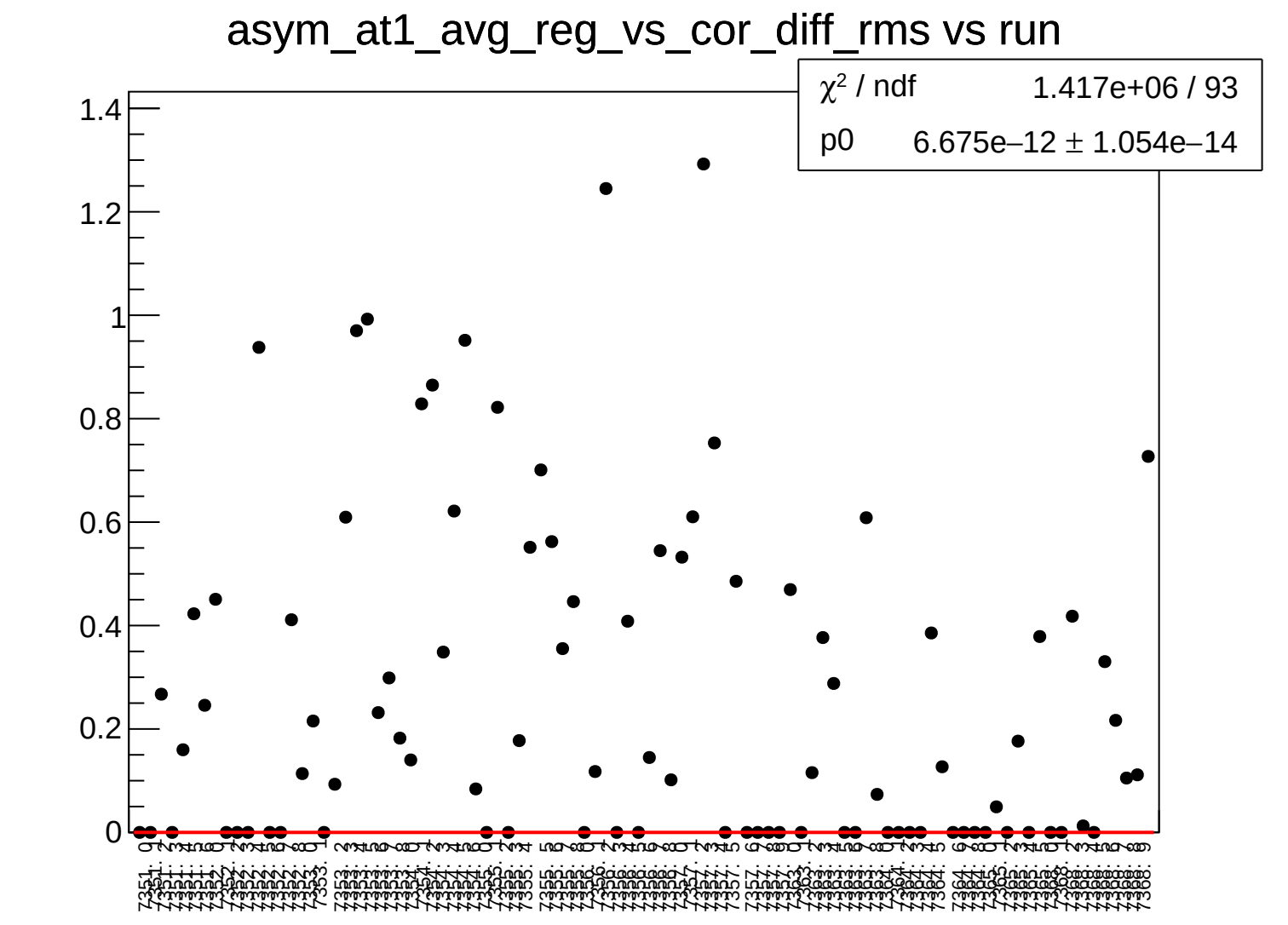

asym_at1_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.85e+04 / 93
p0 597.4 ± 0.4453
800
750
700
650
600
550
500

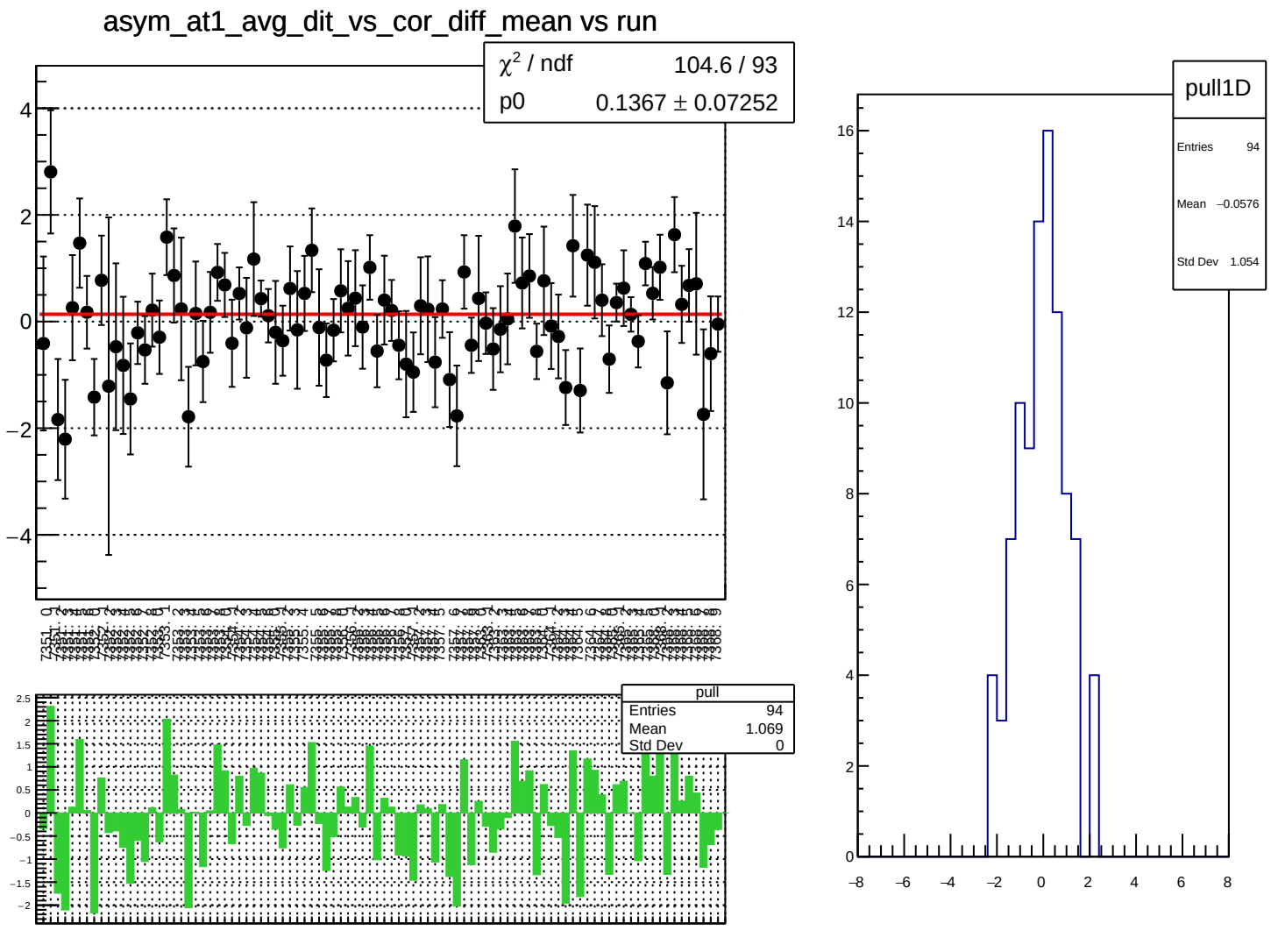

asym_at1_avg_mean vs run
χ² / ndf 74.54 / 93
p0 −2542 ± 1994
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean 161.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

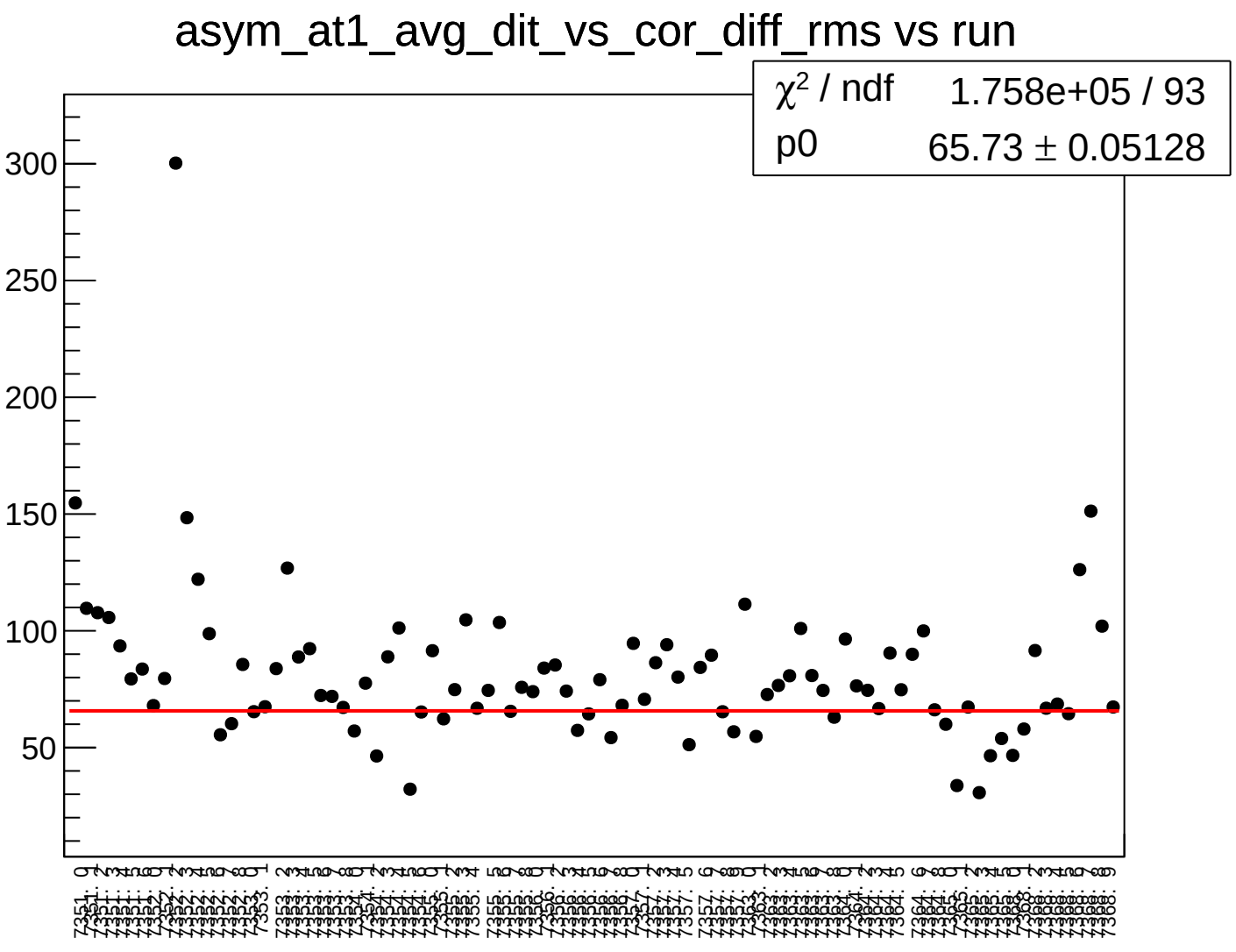

pull1D
Entries 94
Mean 0.008238
Std Dev 0.8904
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

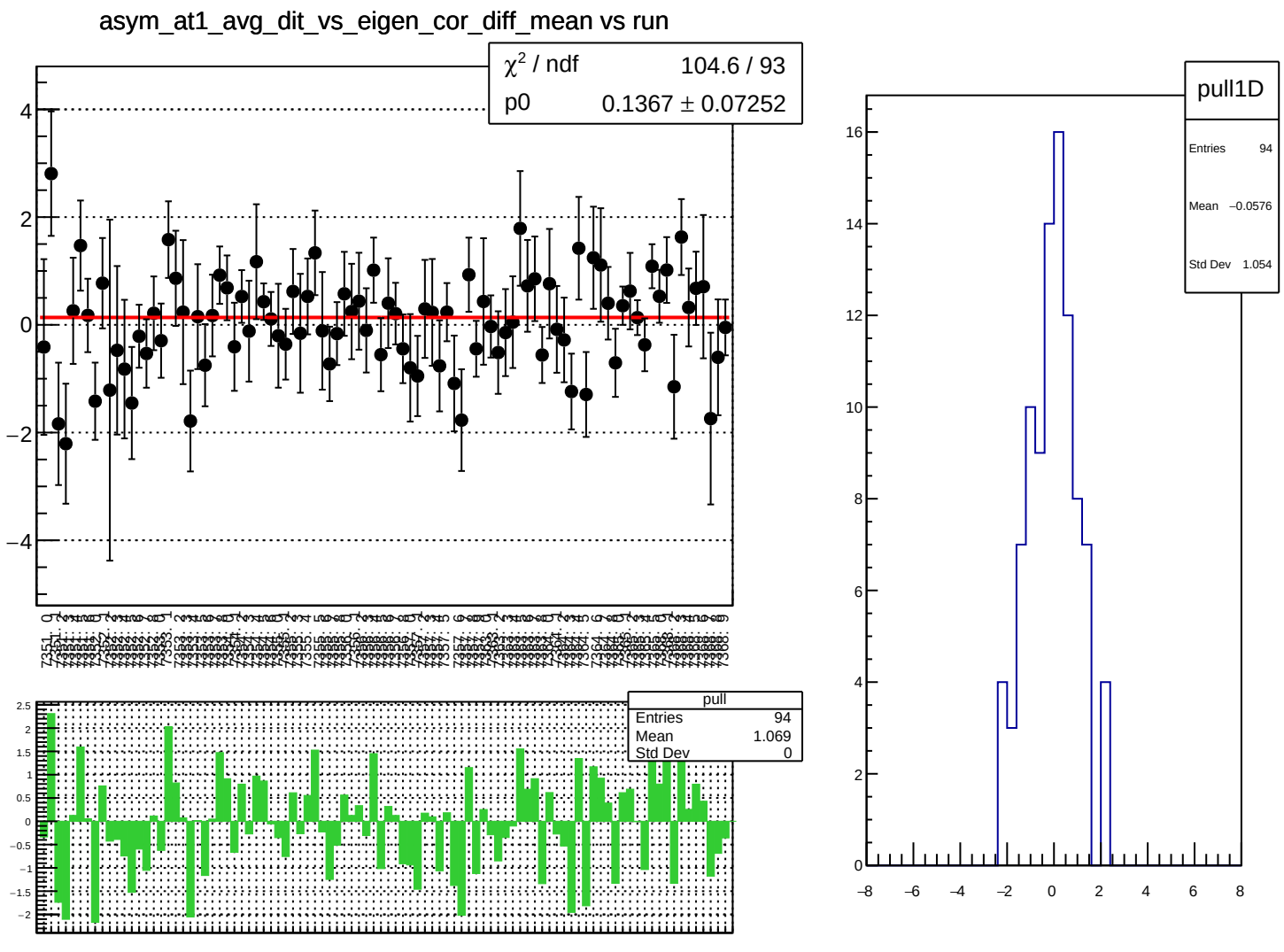

asym_at1_avg_rms vs run
χ² / ndf 522.7 / 93
p0 1901 ± 1.41
2150
2100
2050
2000
1950
1900
1850

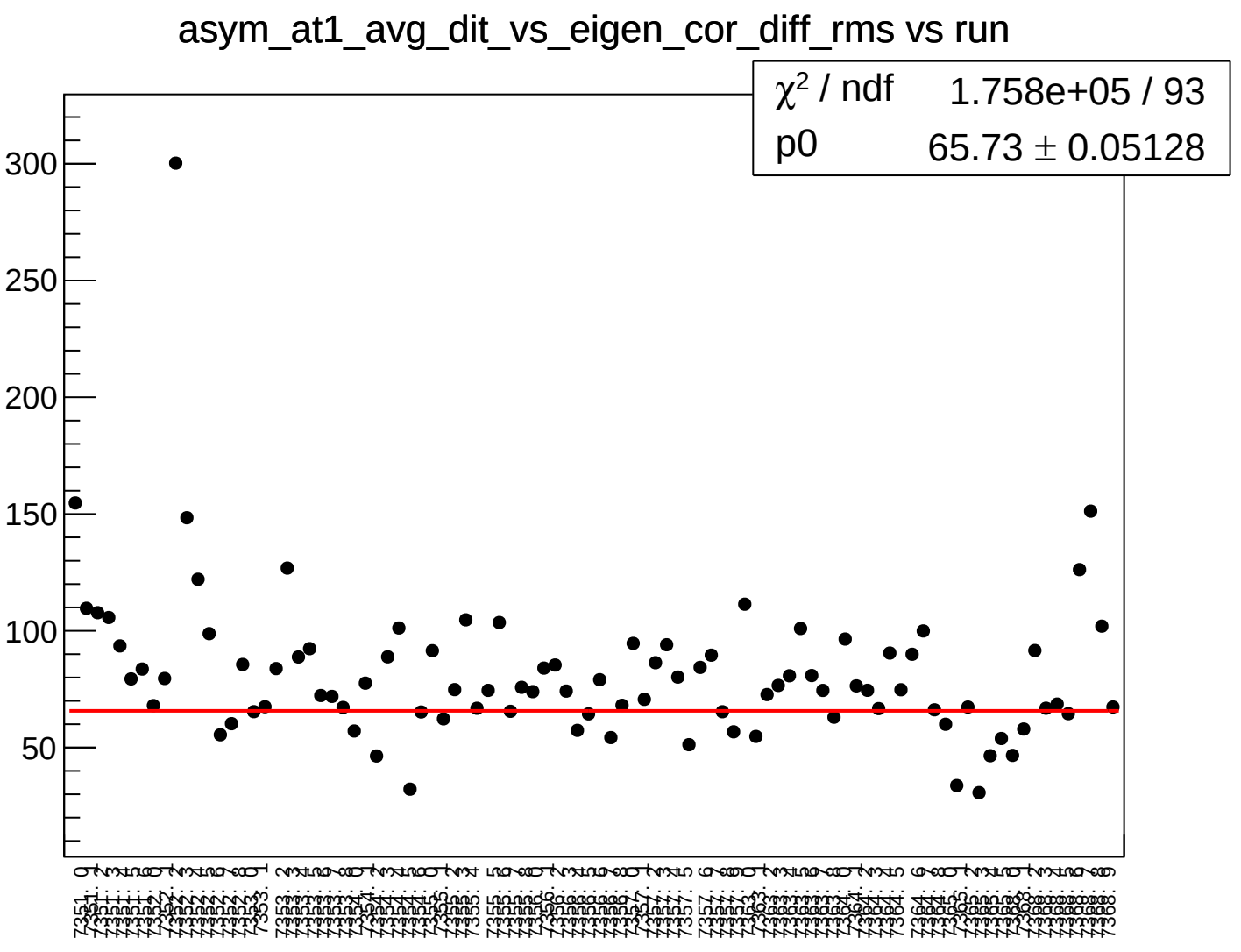

asym_at1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 148.5 / 93
p0 −1.417e−14 ± 1.49e−14
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 94
Mean 80.28
Std Dev 0
pull1D
Entries 94
Mean −0.09678
Std Dev 1.253
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

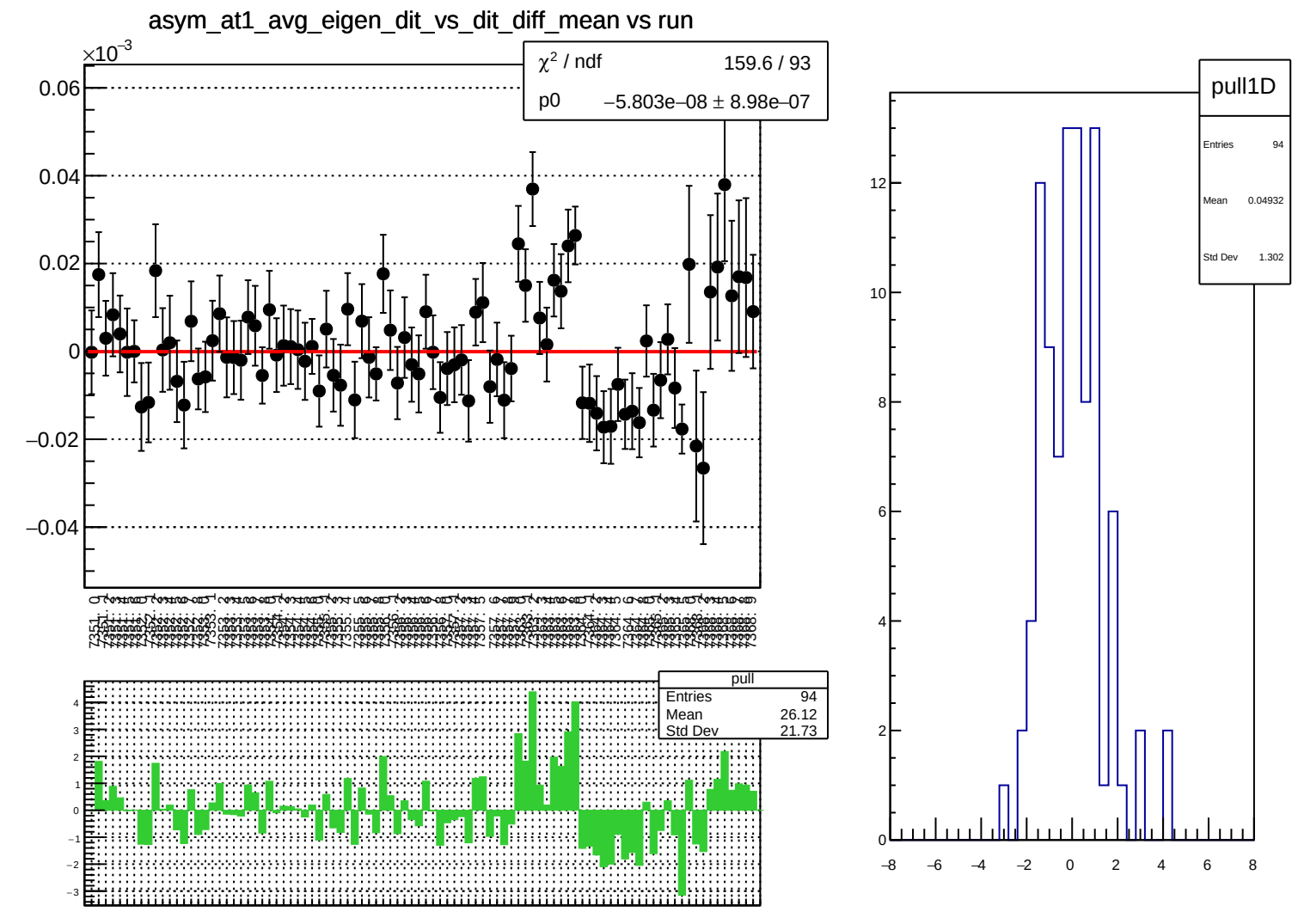

asym_at1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.417e+06 / 93
p0 6.675e−12 ± 1.054e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

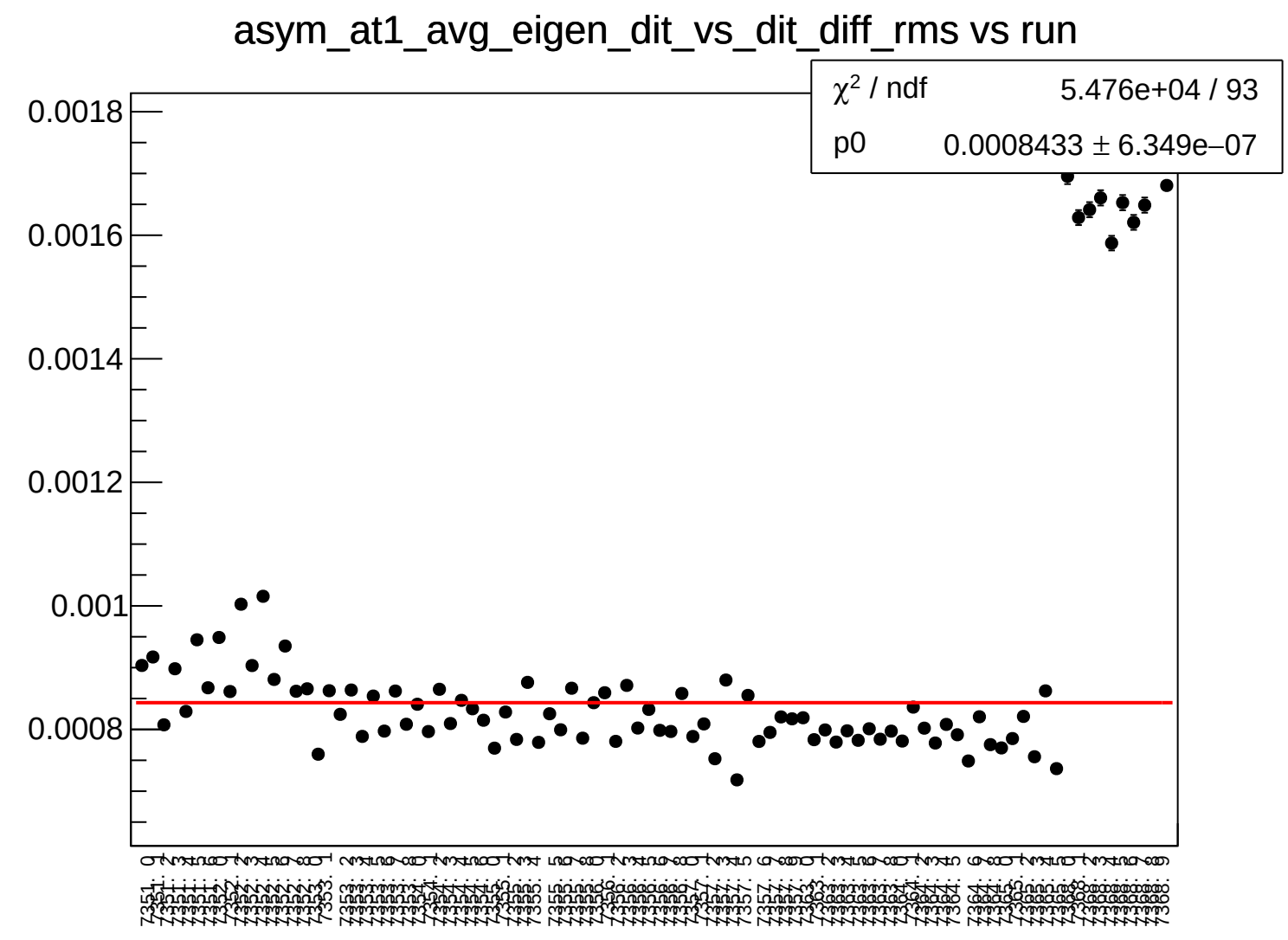

asym_at1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 104.6 / 93
p0 0.1367 ± 0.07252
pull
Entries 94
Mean 1.069
Std Dev 0
pull1D
Entries 94
Mean −0.0576
Std Dev 1.054

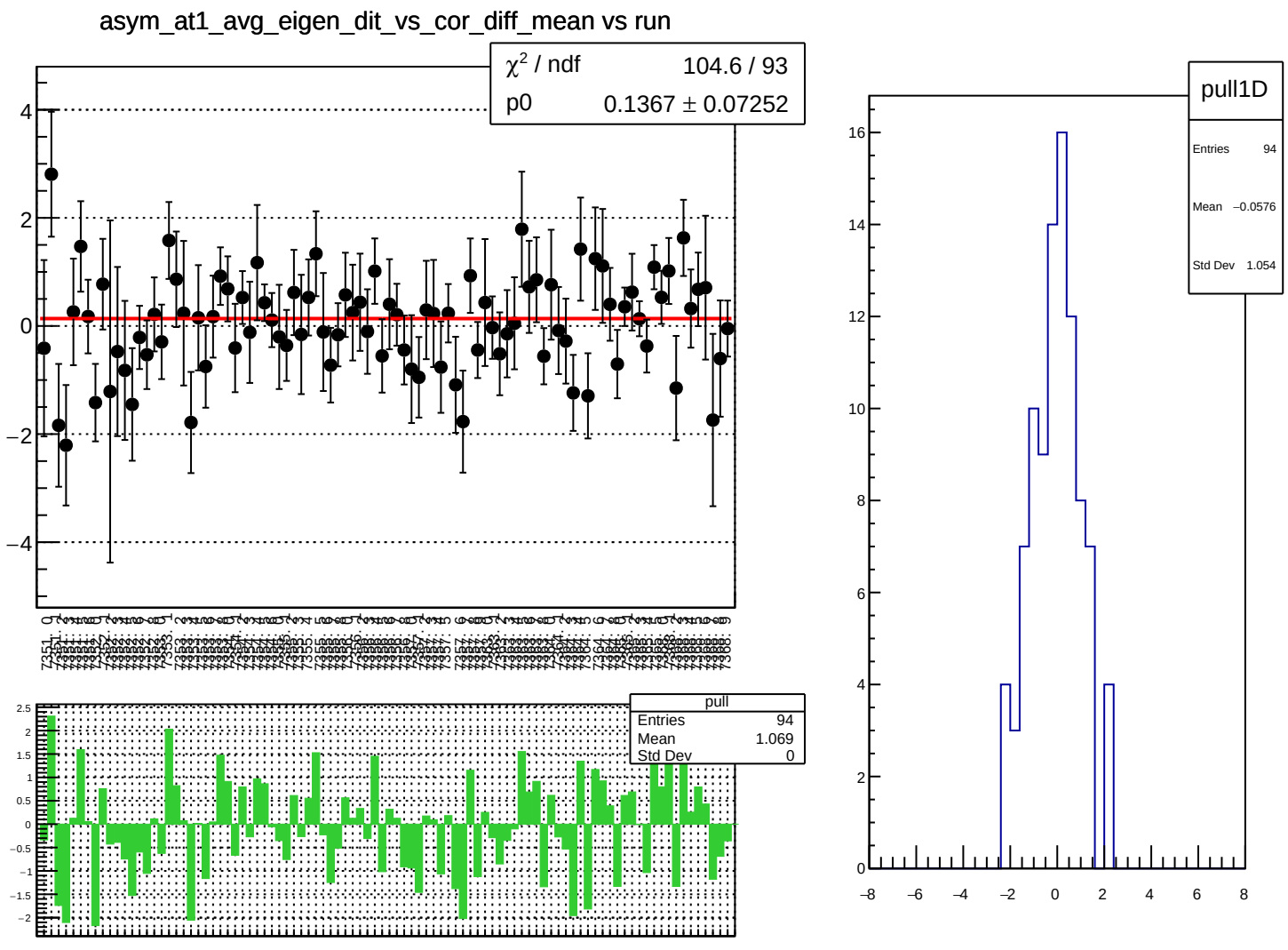

asym_at1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.758e+05 / 93
p0 65.73 ± 0.05128
300
250
200
150
100
50

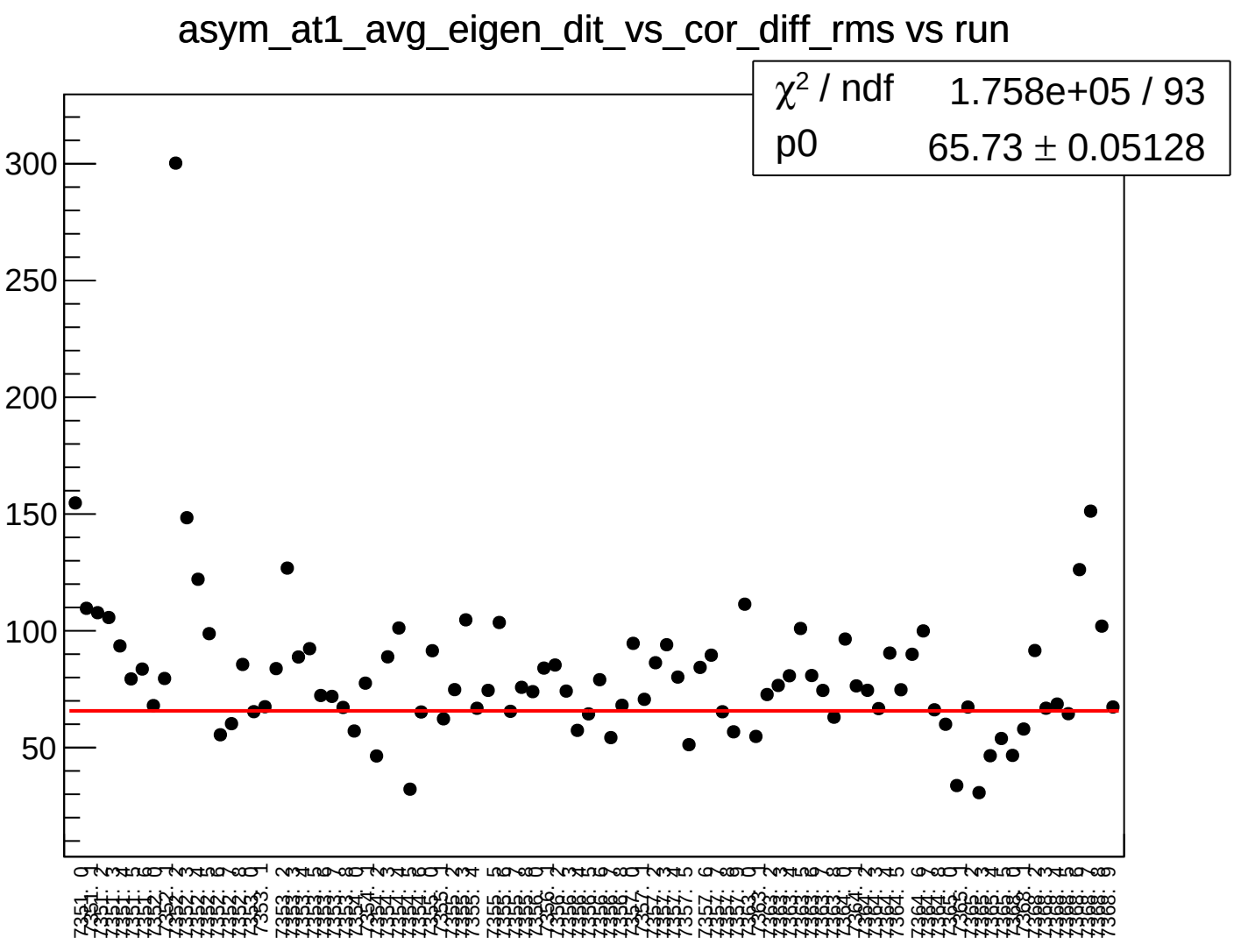

asym_at1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.6 / 93
p0 0.1367 ± 0.07252
pull
Entries 94
Mean 1.069
Std Dev 0
pull1D
Entries 94
Mean −0.0576
Std Dev 1.054

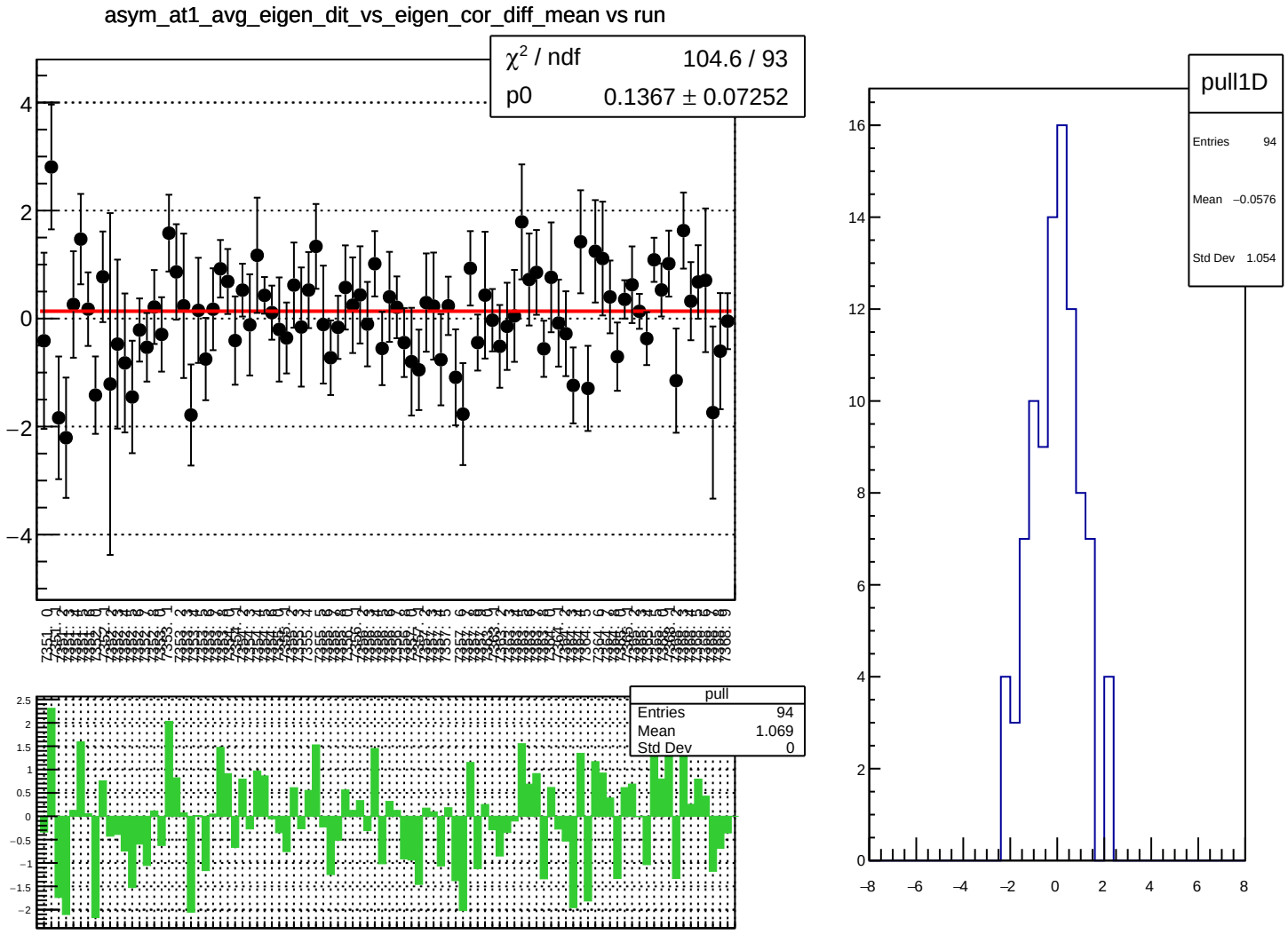

asym_at1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.758e+05 / 93
p0 65.73 ± 0.05128
300
250
200
150
100
50

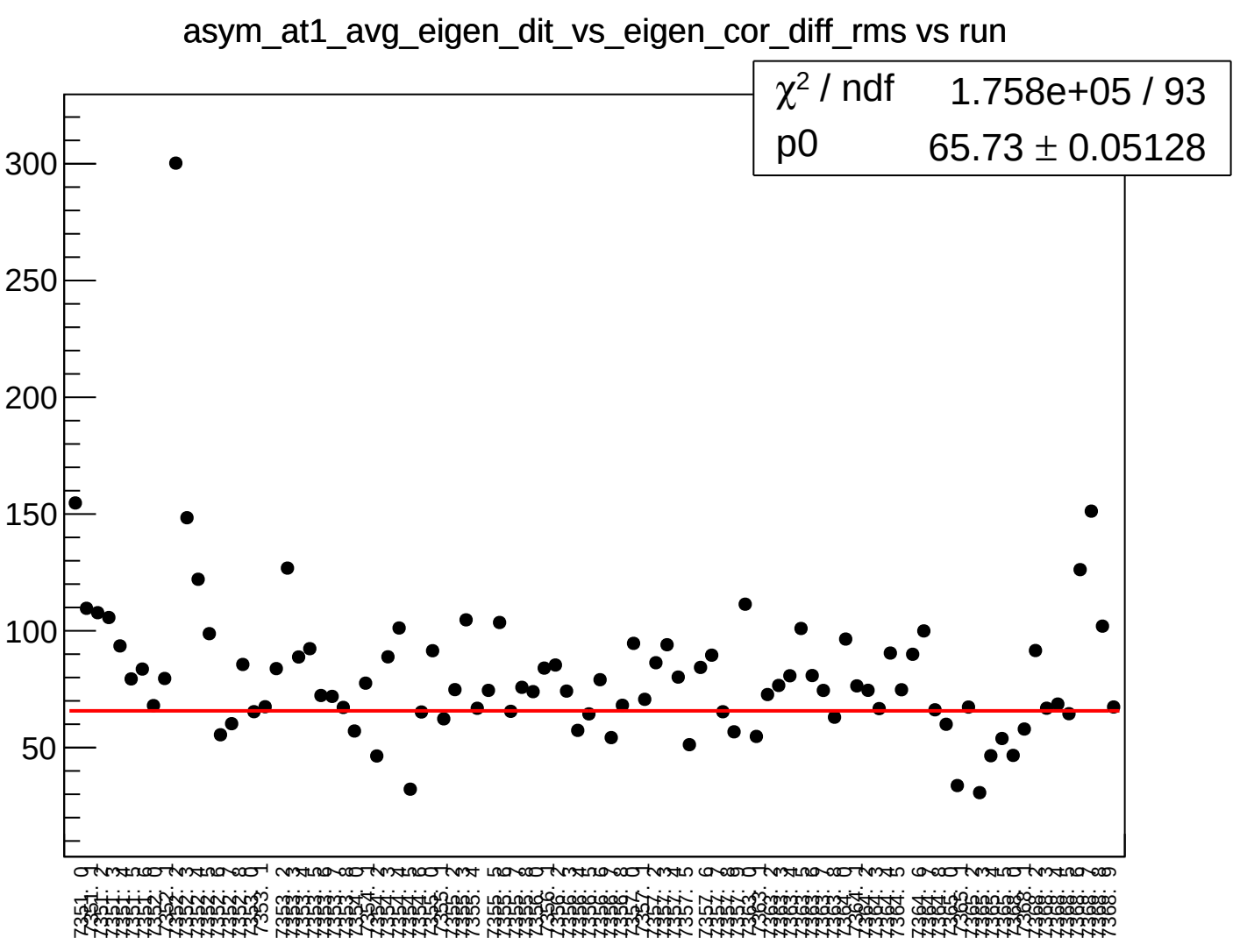

asym_at1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 159.6 / 93
p0 −5.803e−08 ± 8.98e−07
0.06
0.04
0.02
0
−0.02
−0.04
pull
Entries 94
Mean 26.12
Std Dev 21.73
pull1D
Entries 94
Mean 0.04932
Std Dev 1.302
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

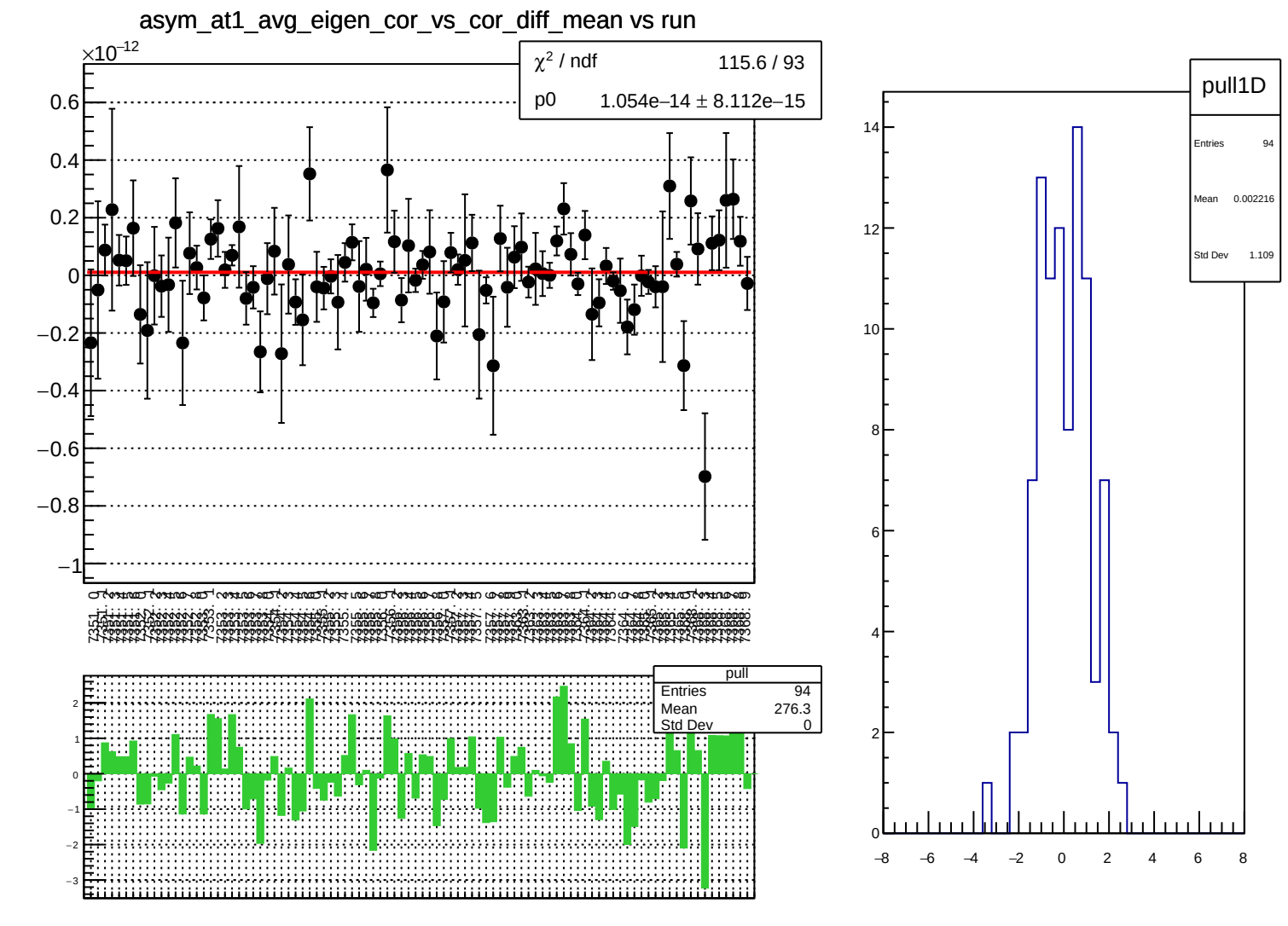

asym_at1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.476e+04 / 93
p0 0.0008433 ± 6.349e−07
0.0018
0.0016
0.0014
0.0012
0.001
0.0008

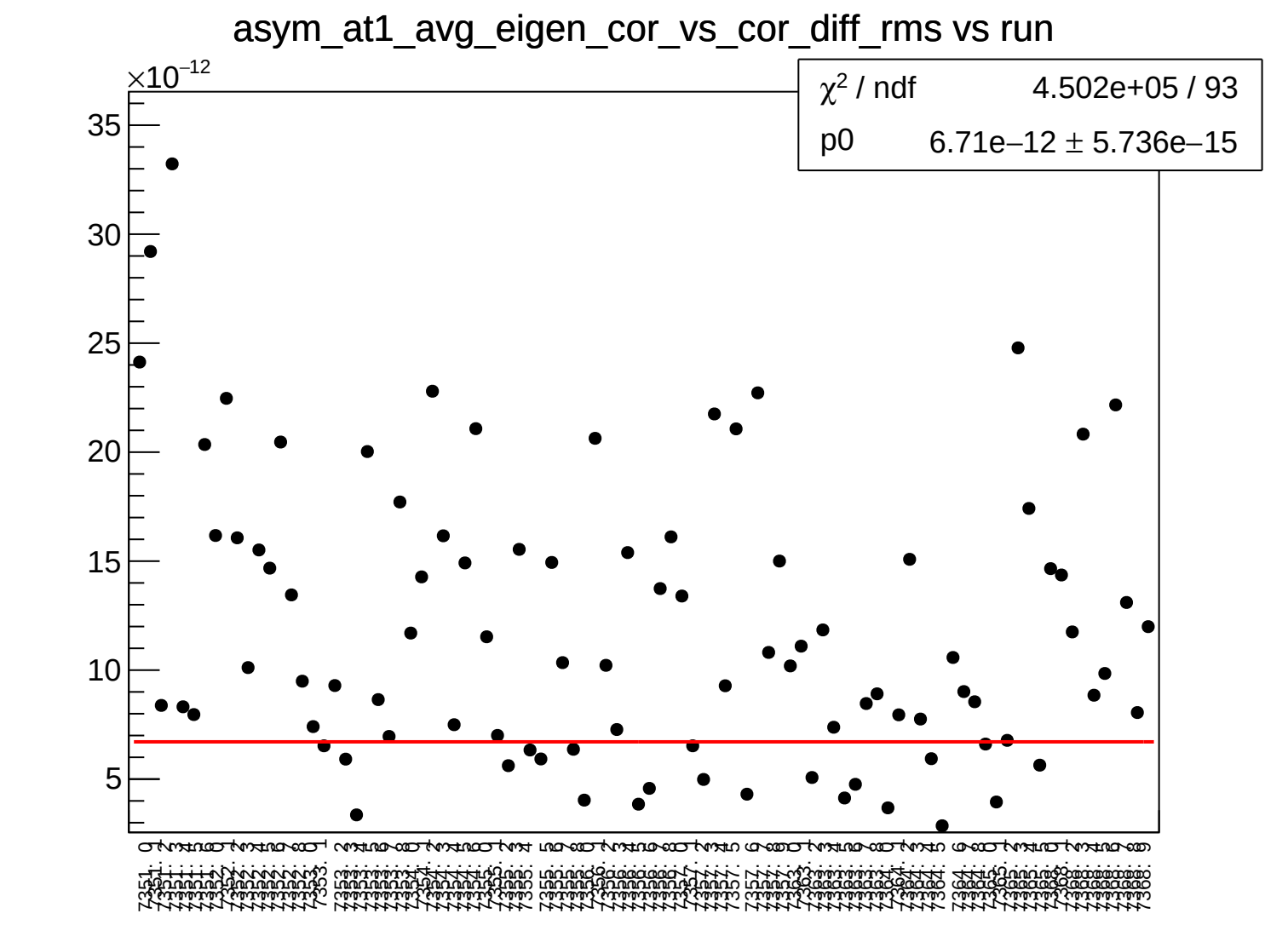

asym_at1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 104.6 / 93
p0 0.1367 ± 0.07252
pull
Entries 94
Mean 1.069
Std Dev 0
pull1D
Entries 94
Mean −0.0576
Std Dev 1.054

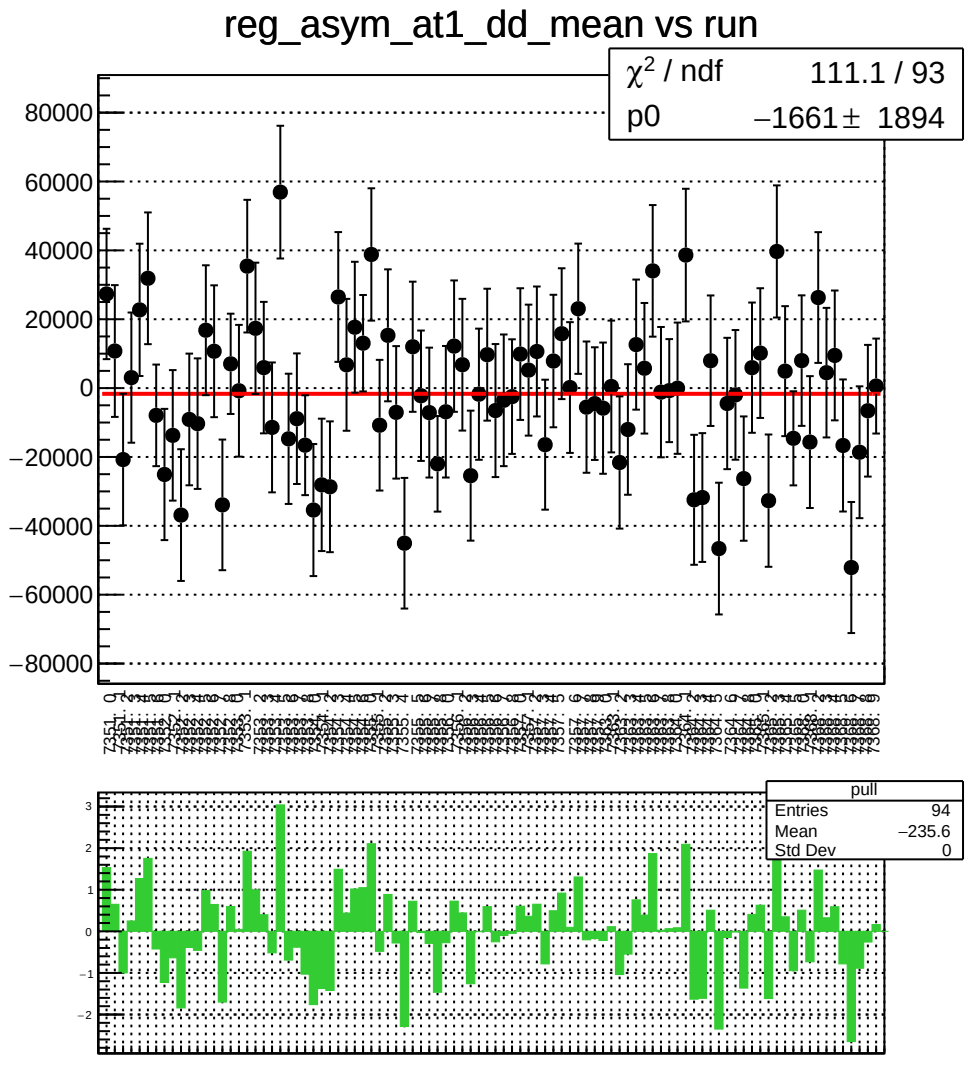

asym_at1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.758e+05 / 93
p0 65.73 ± 0.05128
300
250
200
150
100
50

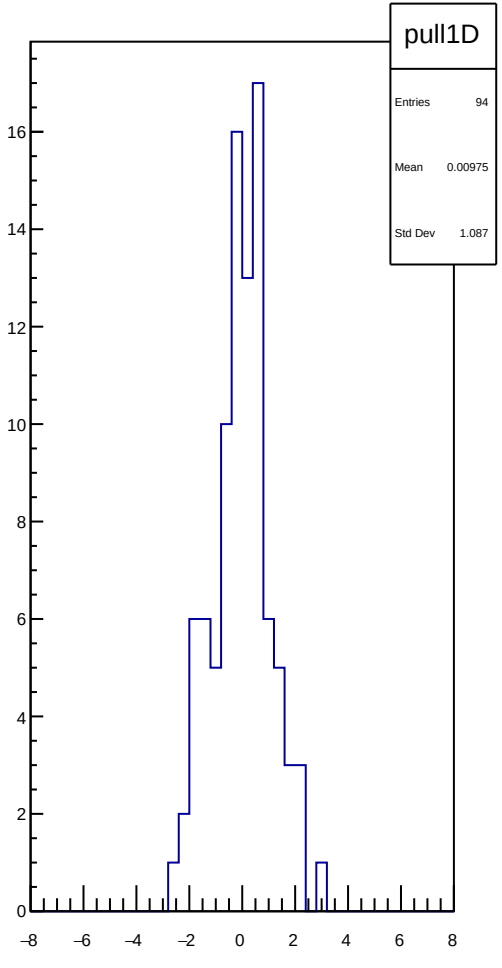

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.6 / 93
p0 0.1367 ± 0.07252
pull
Entries 94
Mean 1.069
Std Dev 0
pull1D
Entries 94
Mean −0.0576
Std Dev 1.054

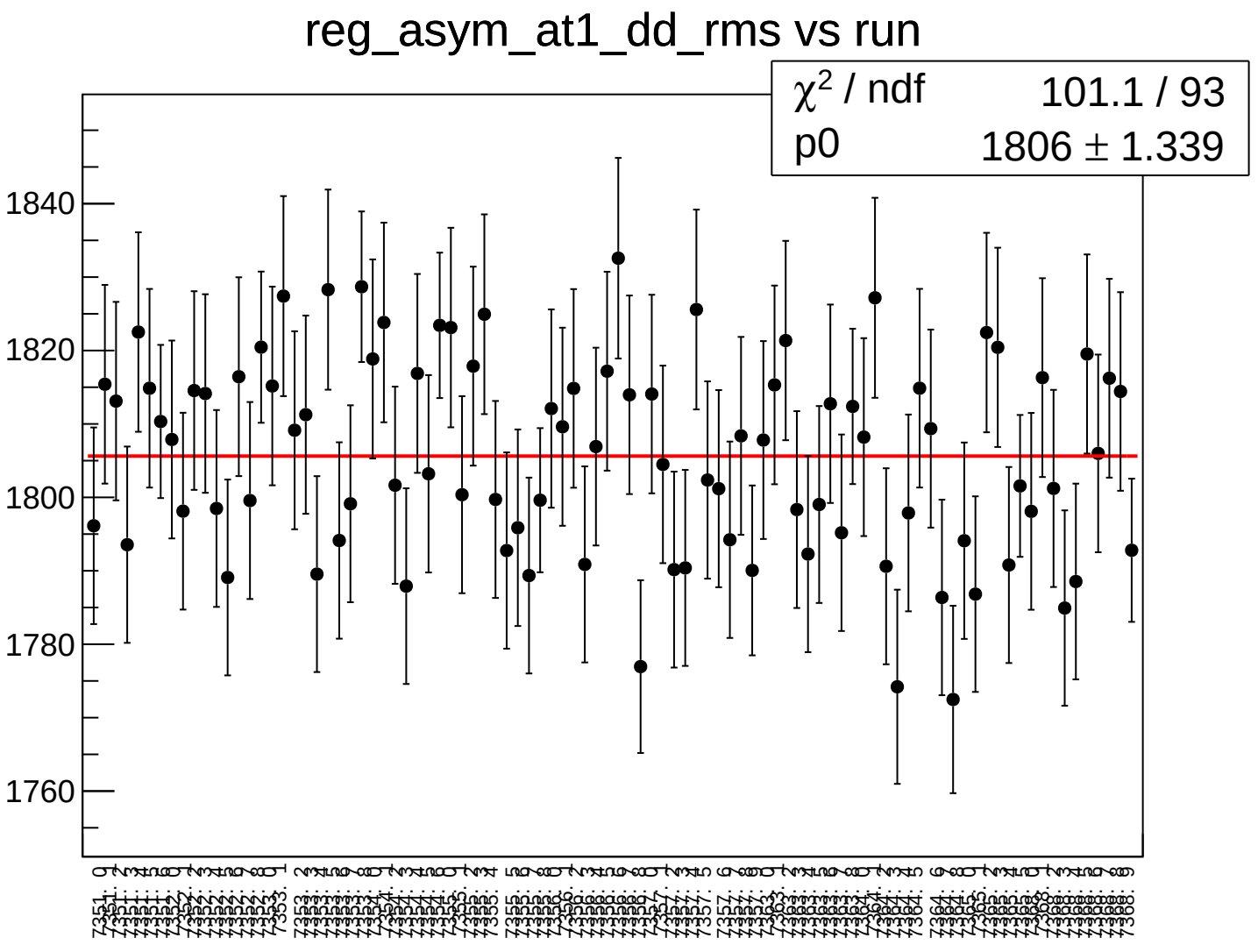

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.758e+05 / 93
p0 65.73 ± 0.05128
300
250
200
150
100
50

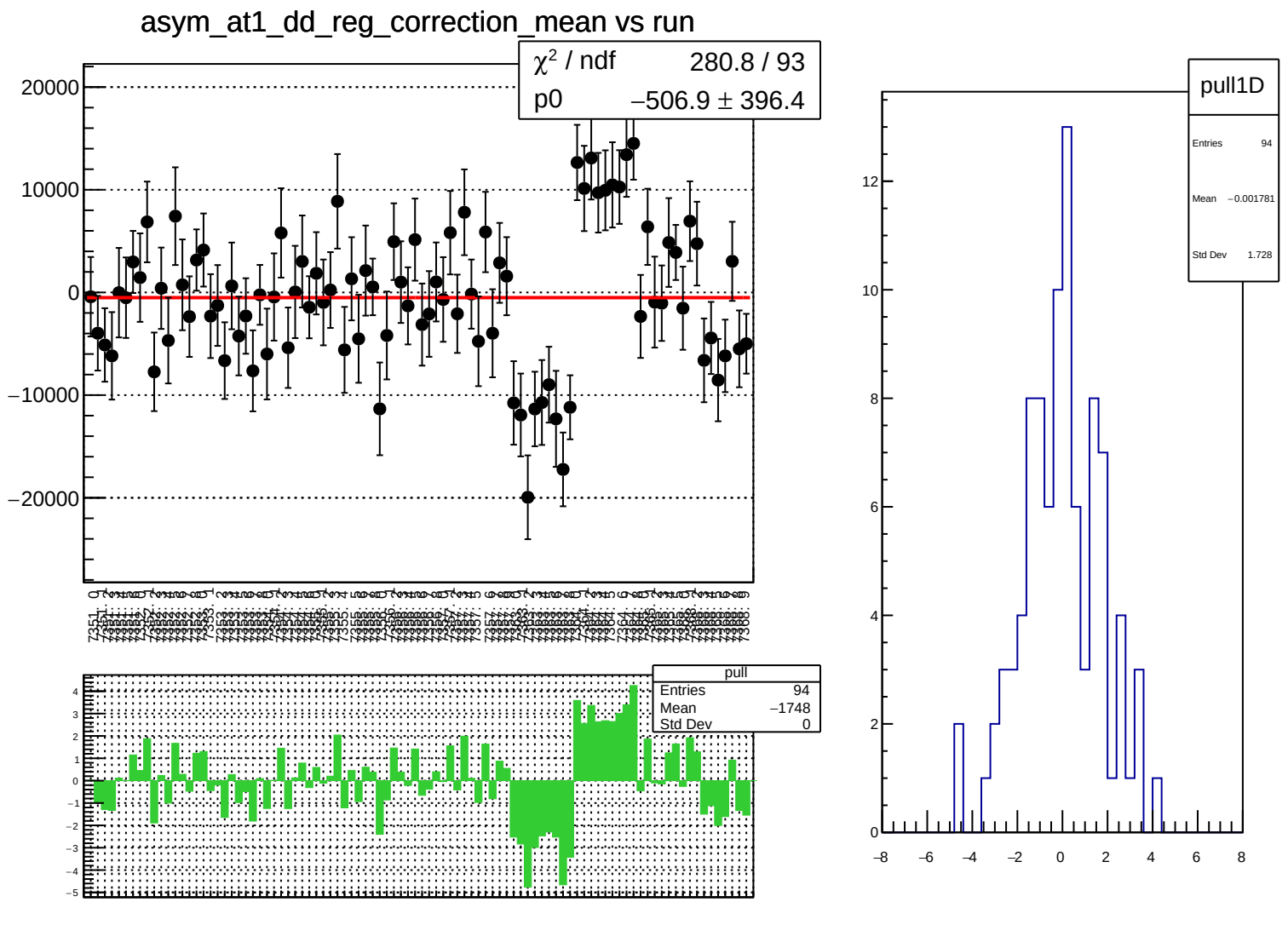

asym_at1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 115.6 / 93
p0 1.054e−14 ± 8.112e−15
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull
Entries 94
Mean 276.3
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.002216
Std Dev 1.109
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

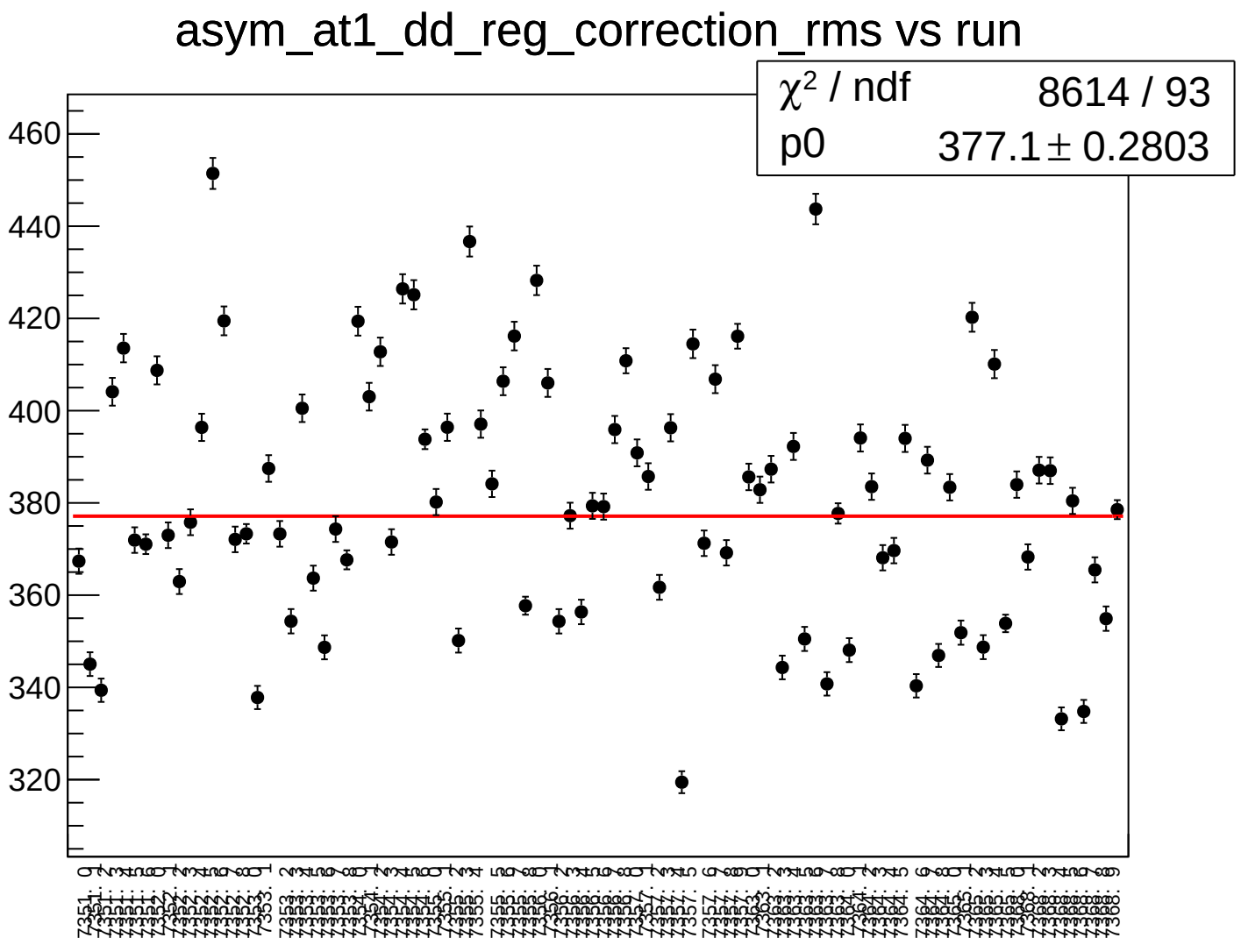

asym_at1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.502e+05 / 93
p0 6.71e−12 ± 5.736e−15
35
30
25
20
15
10
5

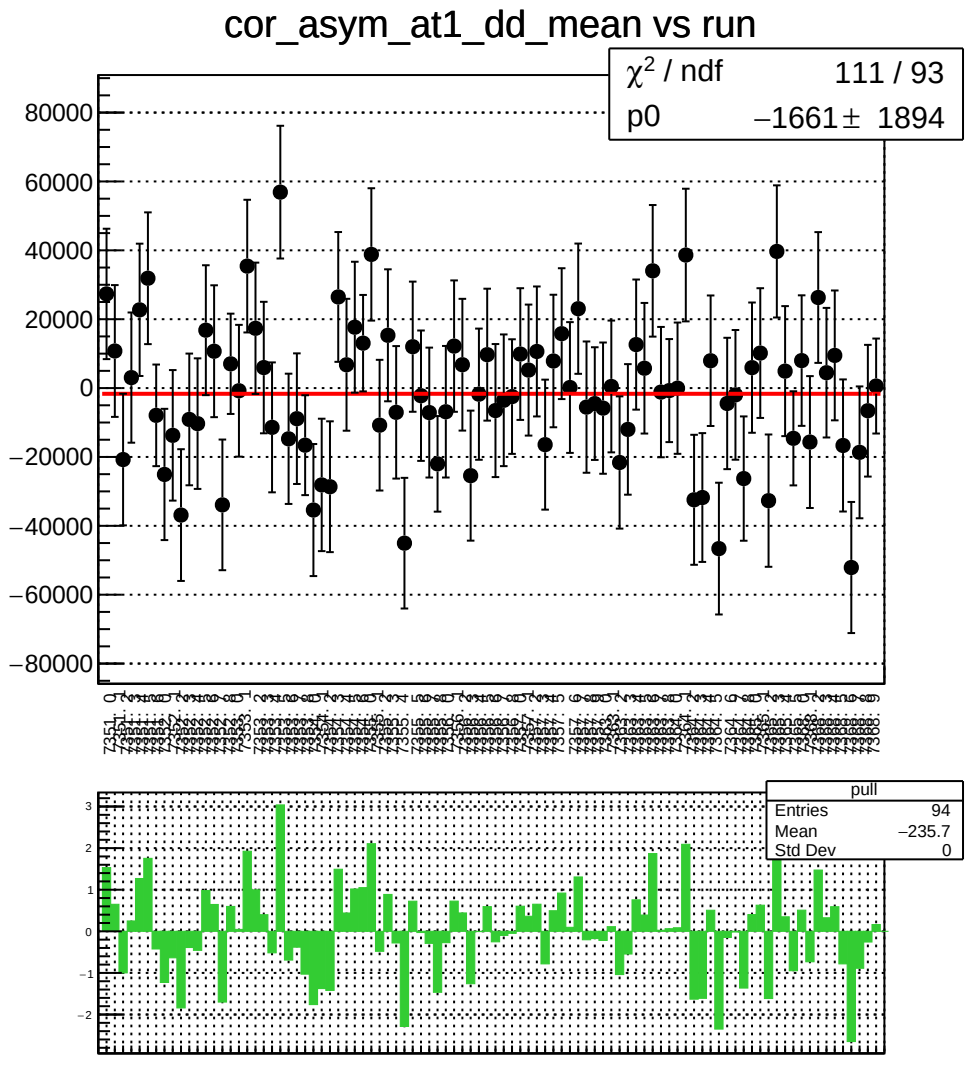

reg_asym_at1_dd_mean vs run
χ² / ndf 111.1 / 93
p0 −1661 ± 1894
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean −235.6
Std Dev 0
3
2
1
0
−1
−2

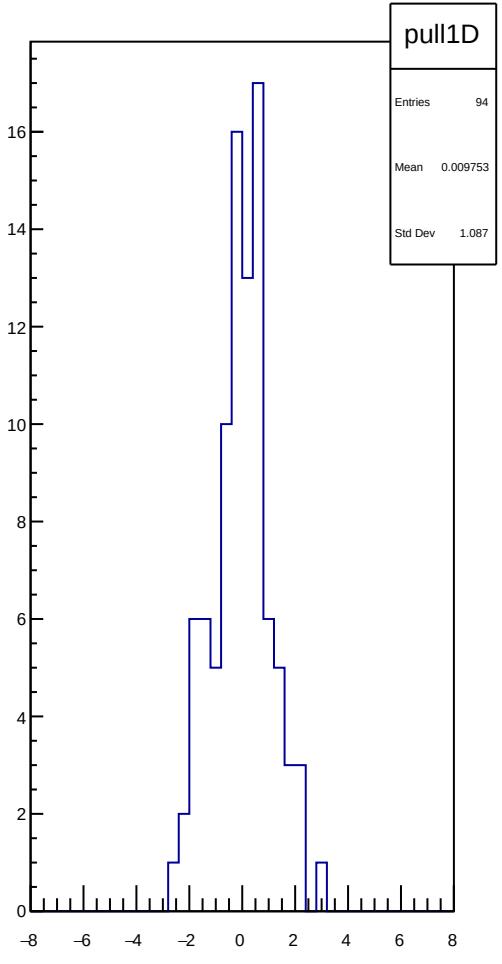

pull1D
Entries 94
Mean 0.00975
Std Dev 1.087
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

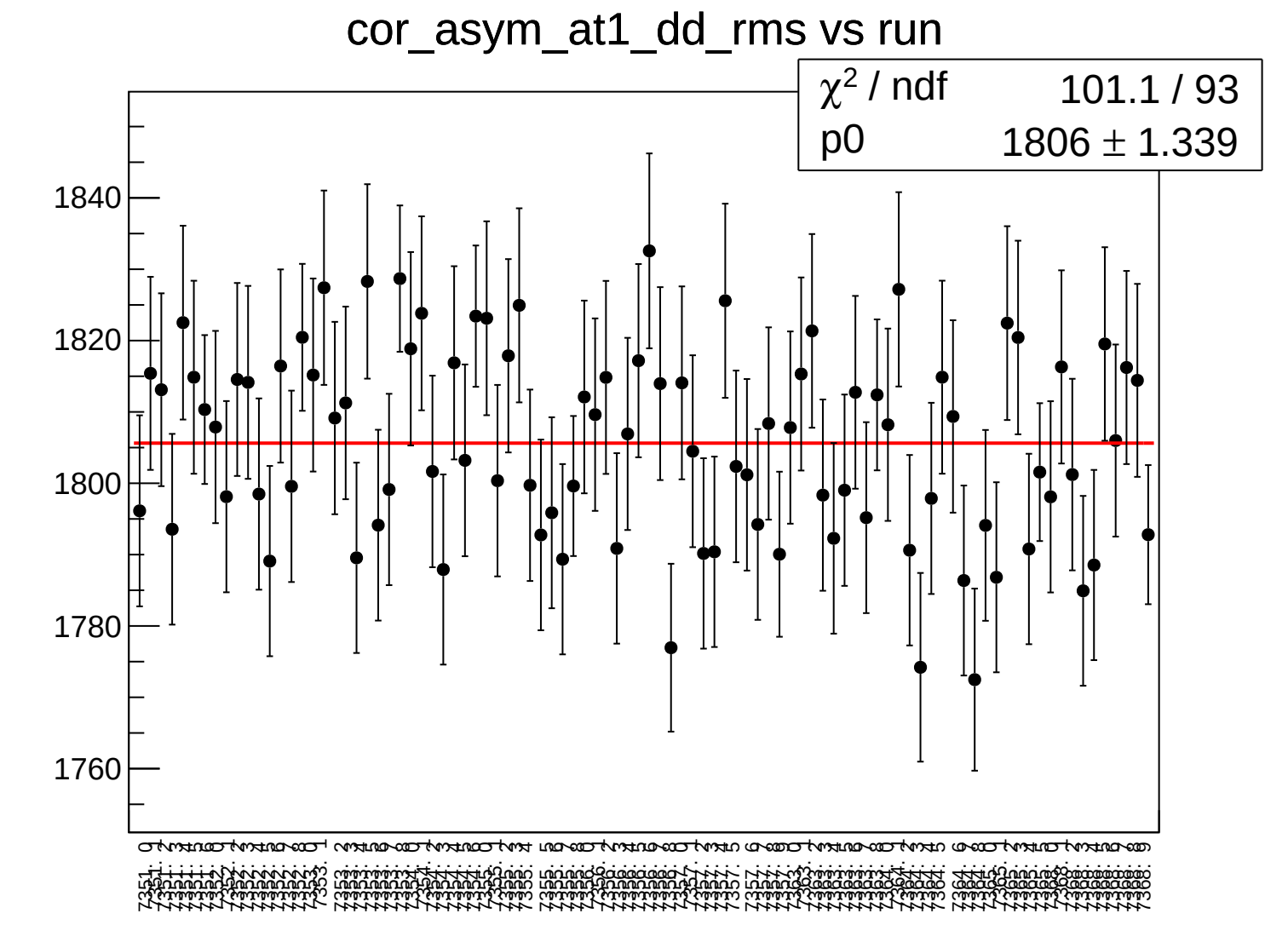

reg_asym_at1_dd_rms vs run
χ^2 / ndf 101.1 / 93
p0 1806 ± 1.339
1840
1820
1800
1780
1760

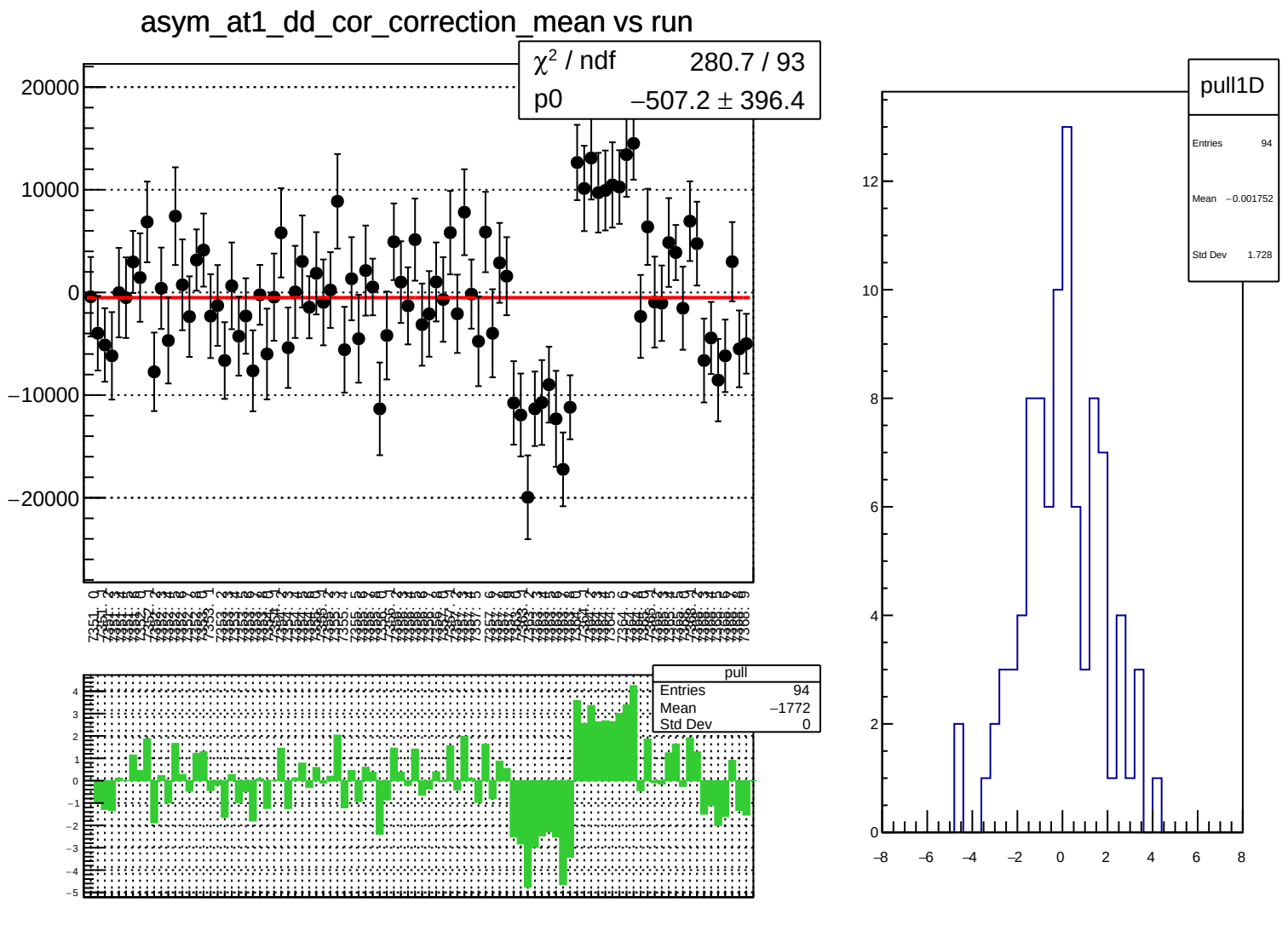

asym_at1_dd_reg_correction_mean vs run
χ² / ndf 280.8 / 93
p0 −506.9 ± 396.4
20000
10000
0
−10000
−20000
pull
Entries 94
Mean −1748
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4
−5
pull1D
Entries 94
Mean −0.001781
Std Dev 1.728
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

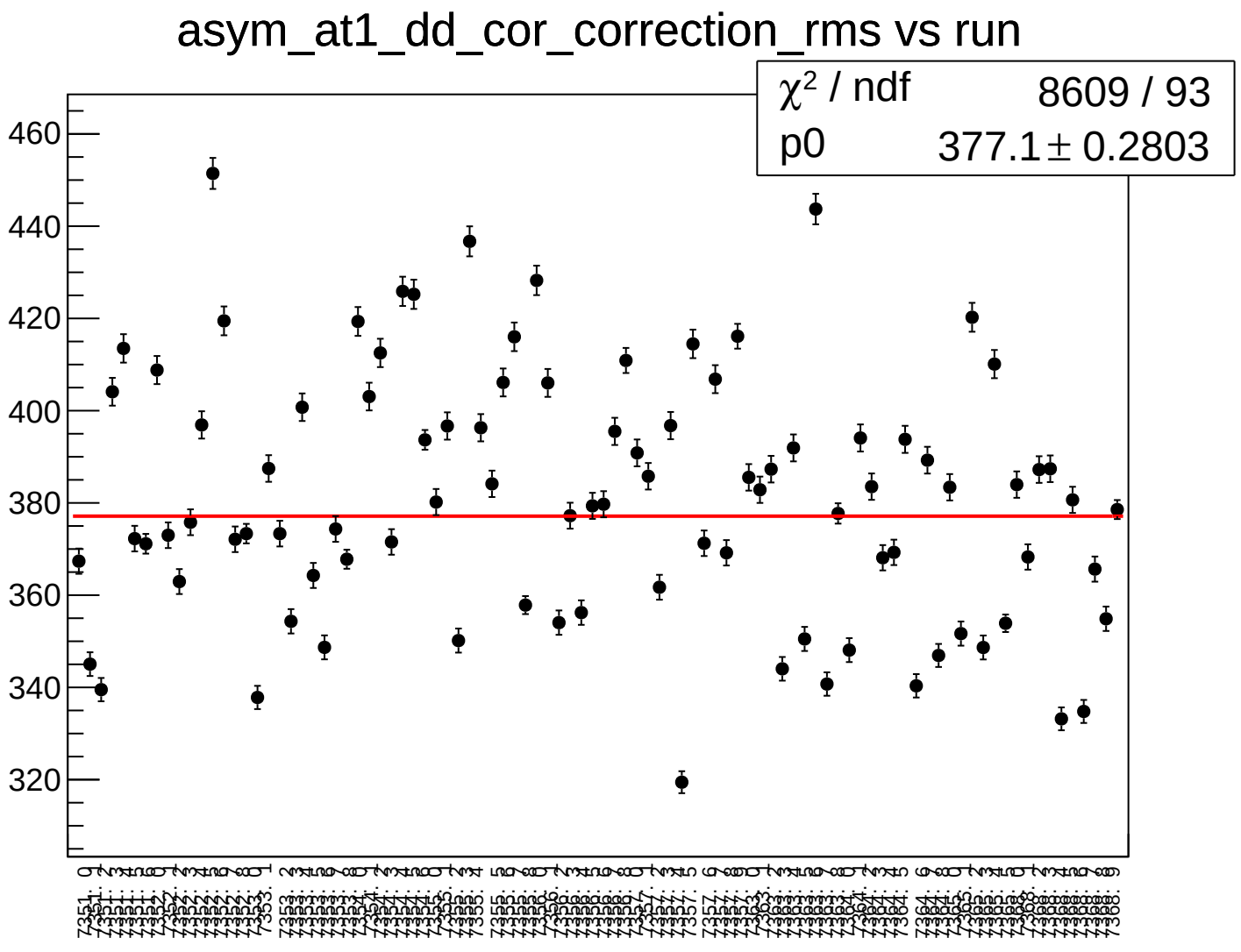

asym_at1_dd_reg_correction_rms vs run
χ² / ndf 8614 / 93
p0 377.1 ± 0.2803
460
440
420
400
380
360
340
320

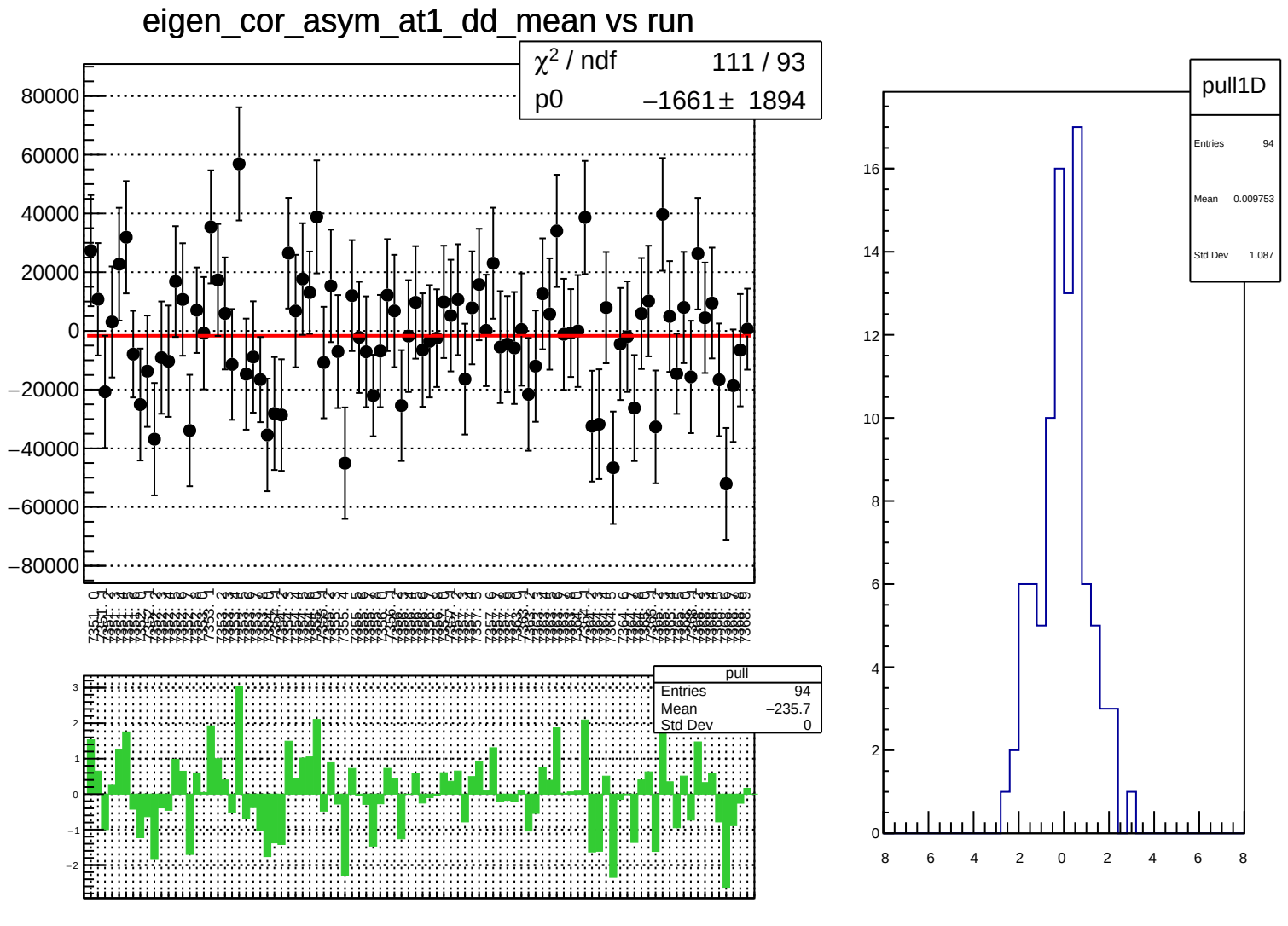

cor_asym_at1_dd_mean vs run
χ² / ndf 111 / 93
p0 −1661 ± 1894
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean −235.7
Std Dev 0
3
2
1
0
−1
−2

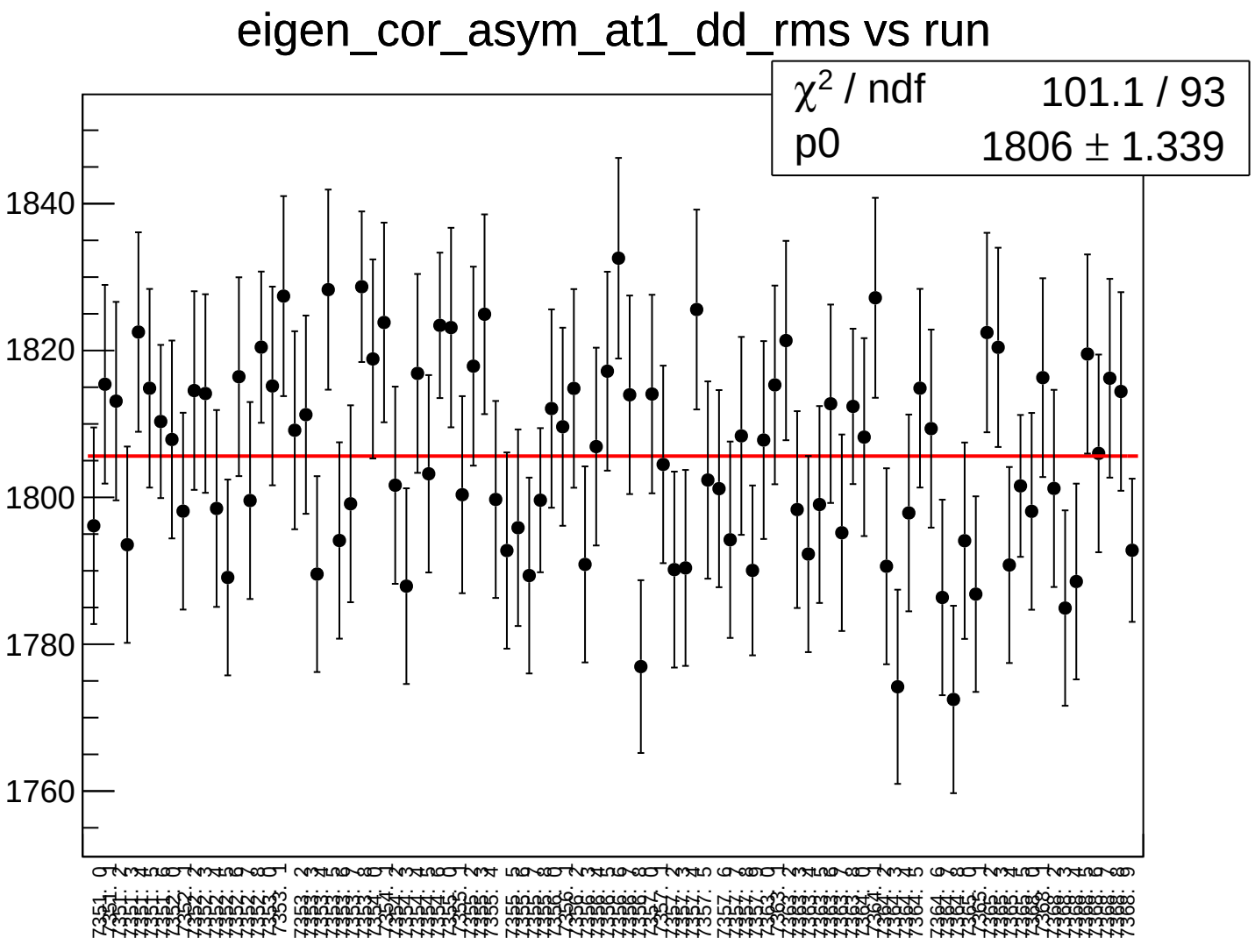

pull1D
Entries 94
Mean 0.009753
Std Dev 1.087
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

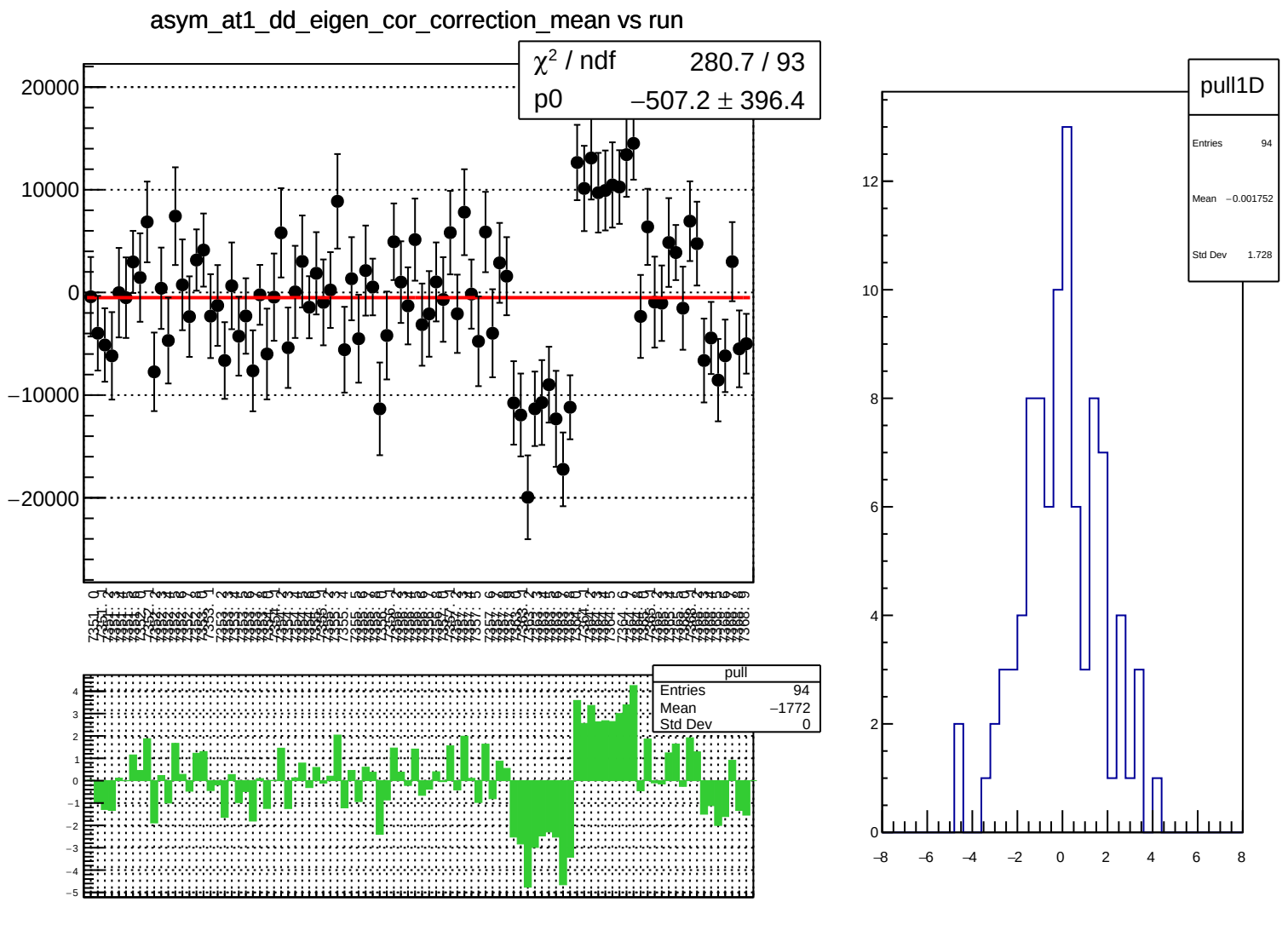

cor_asym_at1_dd_rms vs run
χ^2 / ndf 101.1 / 93
p0 1806 ± 1.339
1840
1820
1800
1780
1760

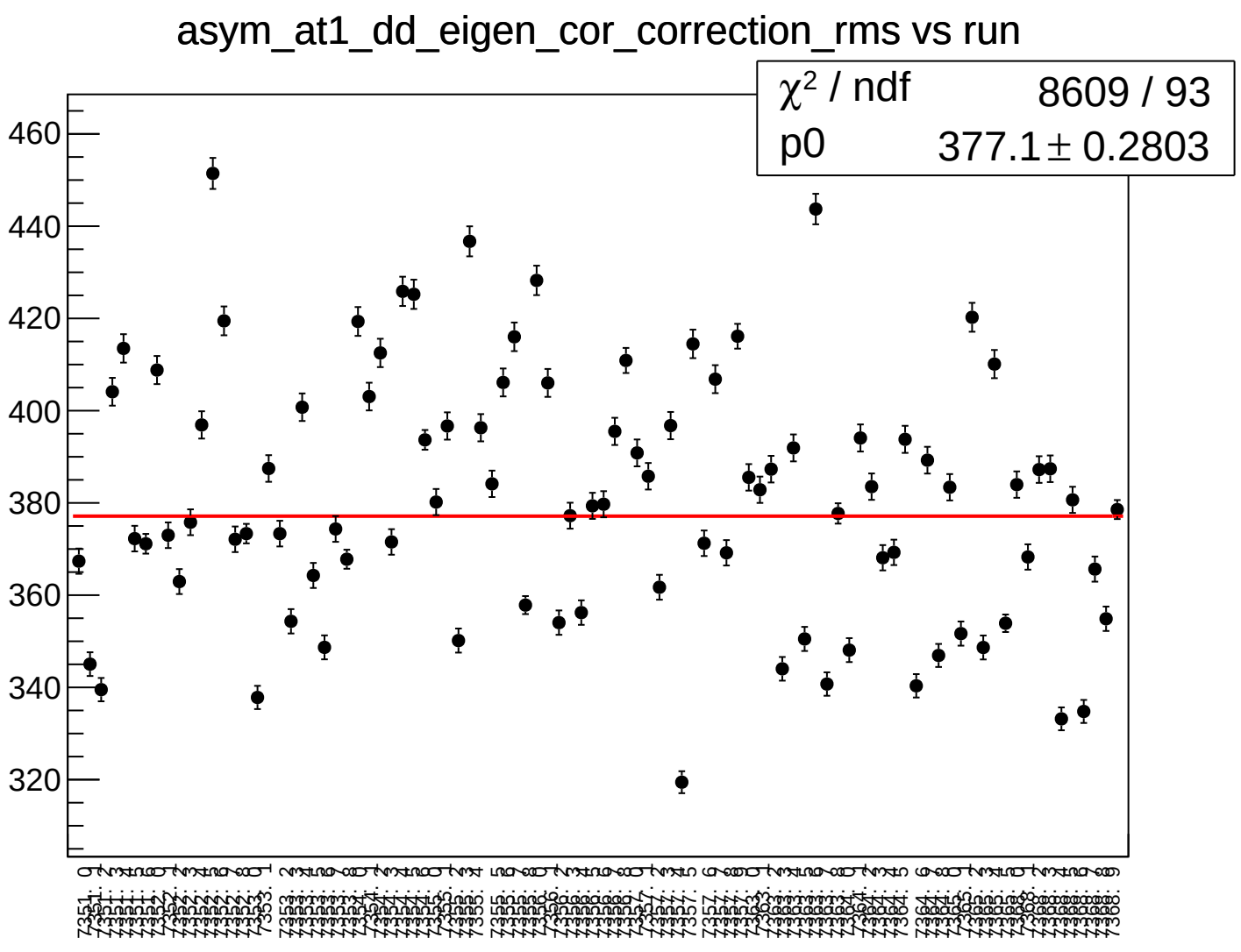

asym_at1_dd_cor_correction_mean vs run
χ² / ndf 280.7 / 93
p0 −507.2 ± 396.4
20000
10000
0
−10000
−20000
pull
Entries 94
Mean −1772
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4
−5
pull1D
Entries 94
Mean −0.001752
Std Dev 1.728
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

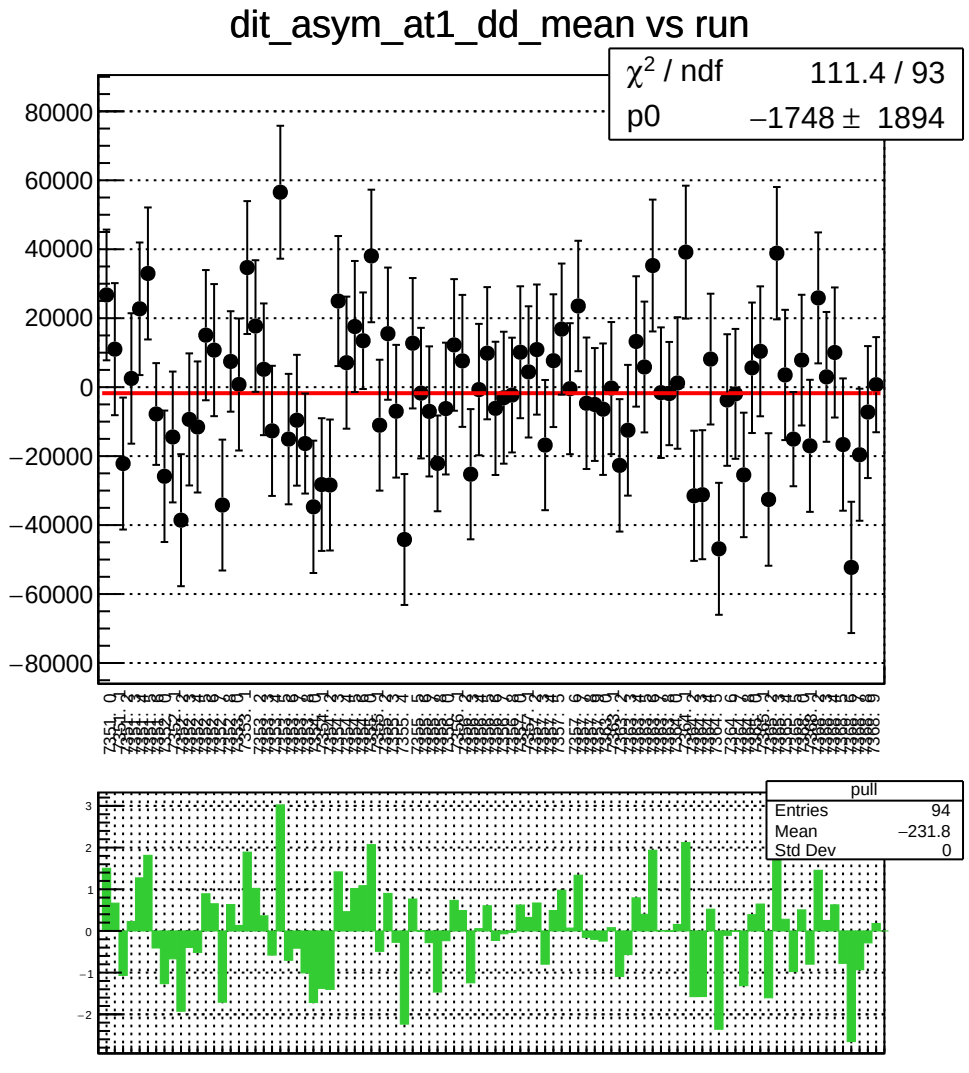

asym_at1_dd_cor_correction_rms vs run
χ² / ndf 8609 / 93
p0 377.1 ± 0.2803
460
440
420
400
380
360
340
320

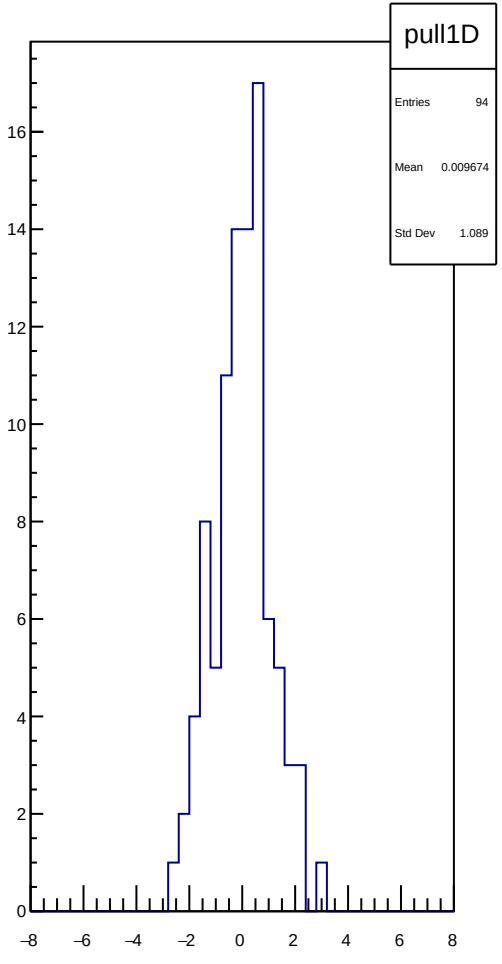

eigen_cor_asym_at1_dd_mean vs run
χ² / ndf 111 / 93
p0 −1661 ± 1894
pull
Entries 94
Mean −235.7
Std Dev 0
pull1D
Entries 94
Mean 0.009753
Std Dev 1.087

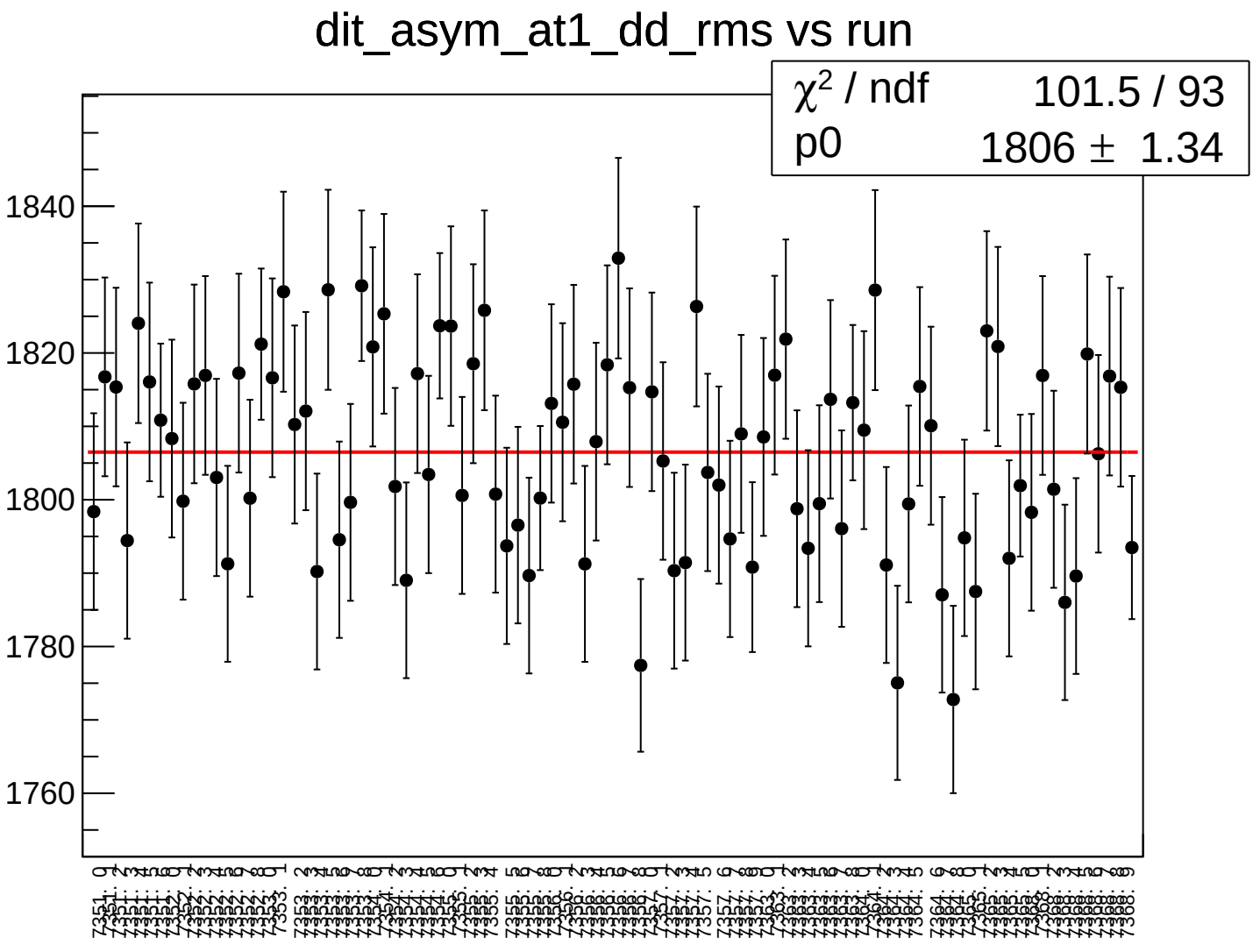

eigen_cor_asym_at1_dd_rms vs run
χ² / ndf 101.1 / 93
p0 1806 ± 1.339
1840
1820
1800
1780
1760

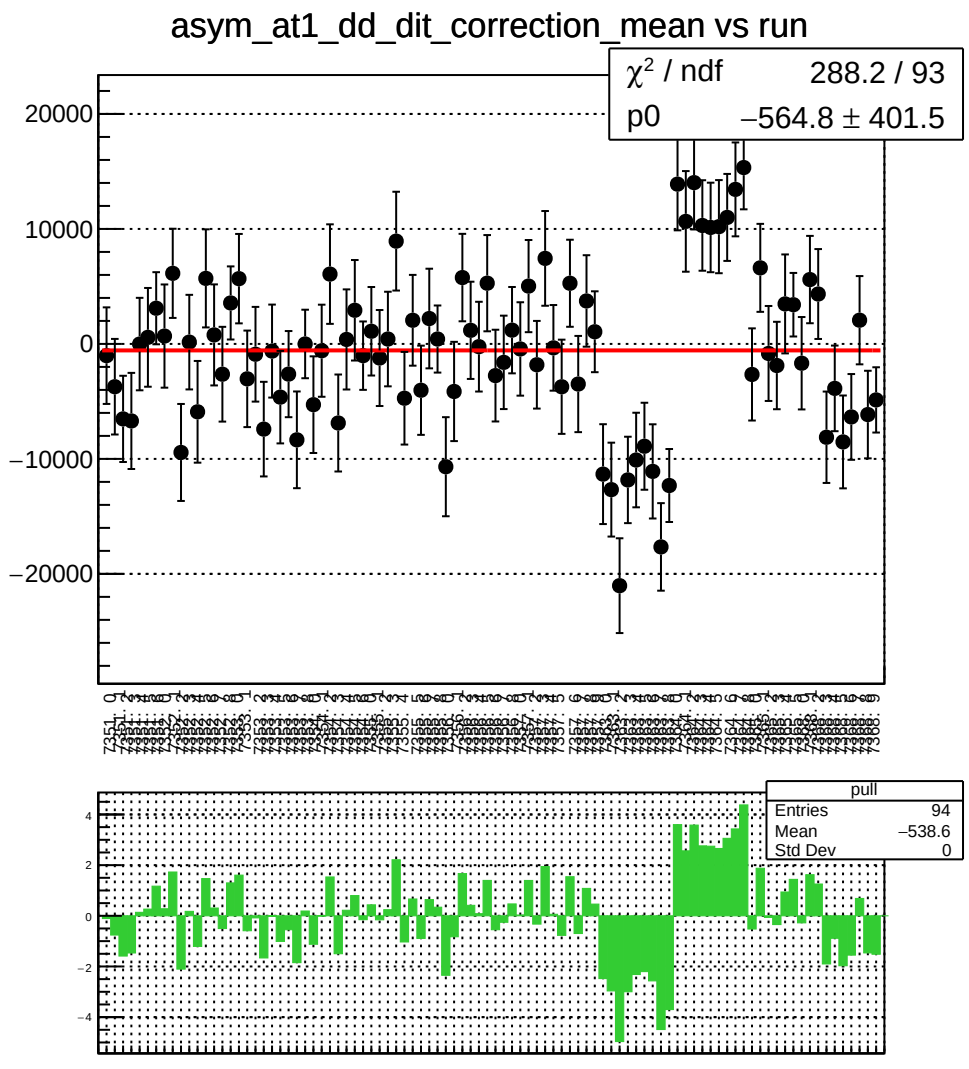

asym_at1_dd_eigen_cor_correction_mean vs run
χ² / ndf 280.7 / 93
p0 −507.2 ± 396.4
20000
10000
0
−10000
−20000
pull
Entries 94
Mean −1772
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4
−5
pull1D
Entries 94
Mean −0.001752
Std Dev 1.728
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

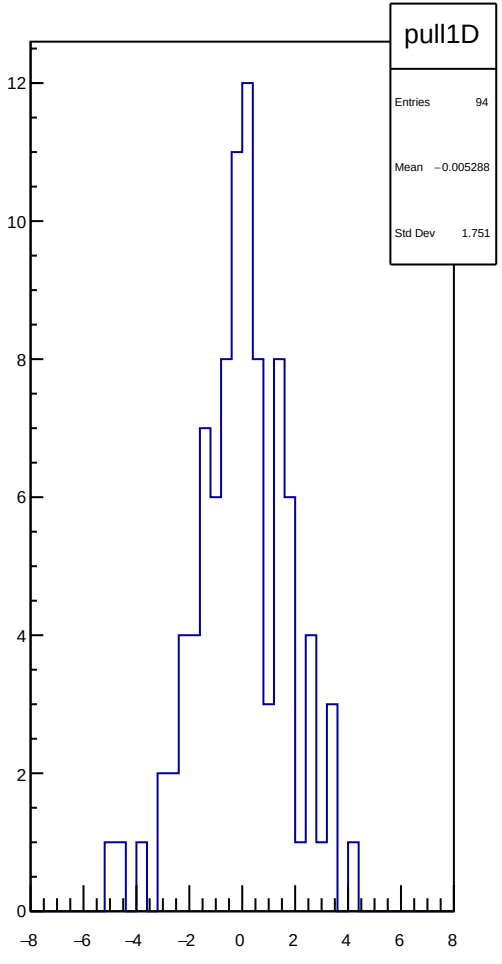

asym_at1_dd_eigen_cor_correction_rms vs run
χ² / ndf 8609 / 93
p0 377.1 ± 0.2803
460
440
420
400
380
360
340
320

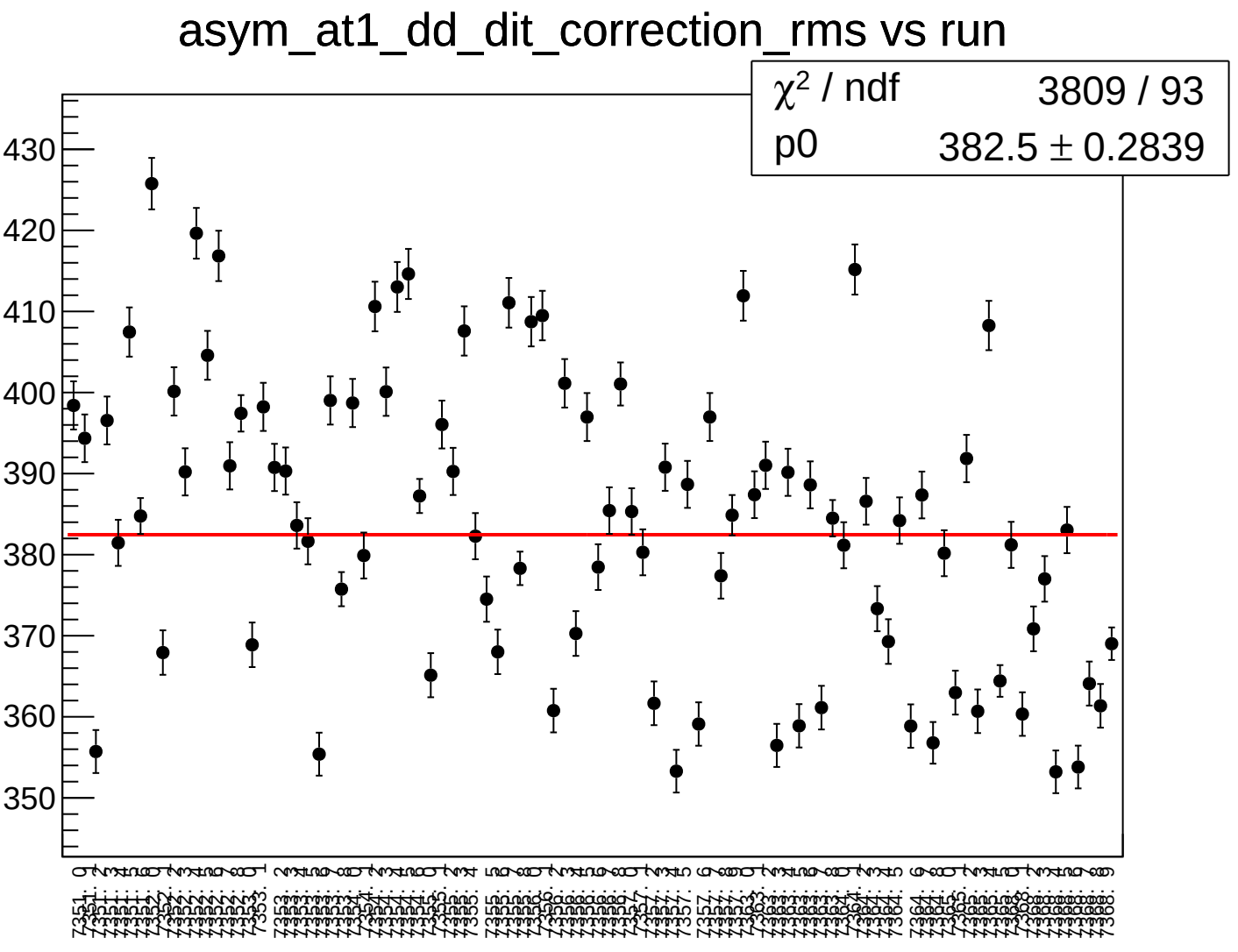

dit_asym_at1_dd_mean vs run
χ² / ndf 111.4 / 93
p0 −1748 ± 1894
pull
Entries 94
Mean −231.8
Std Dev 0

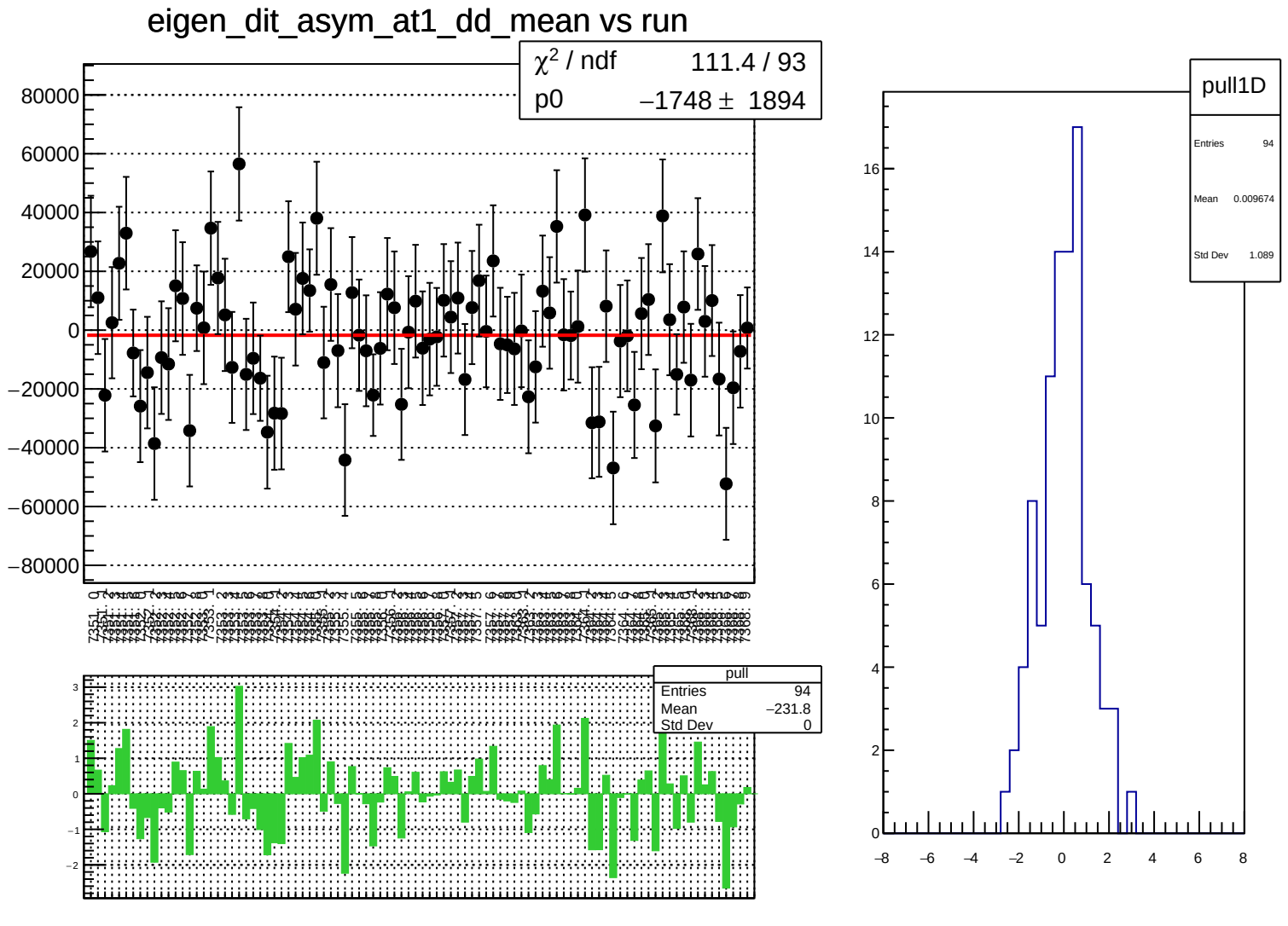

pull1D
Entries 94
Mean 0.009674
Std Dev 1.089

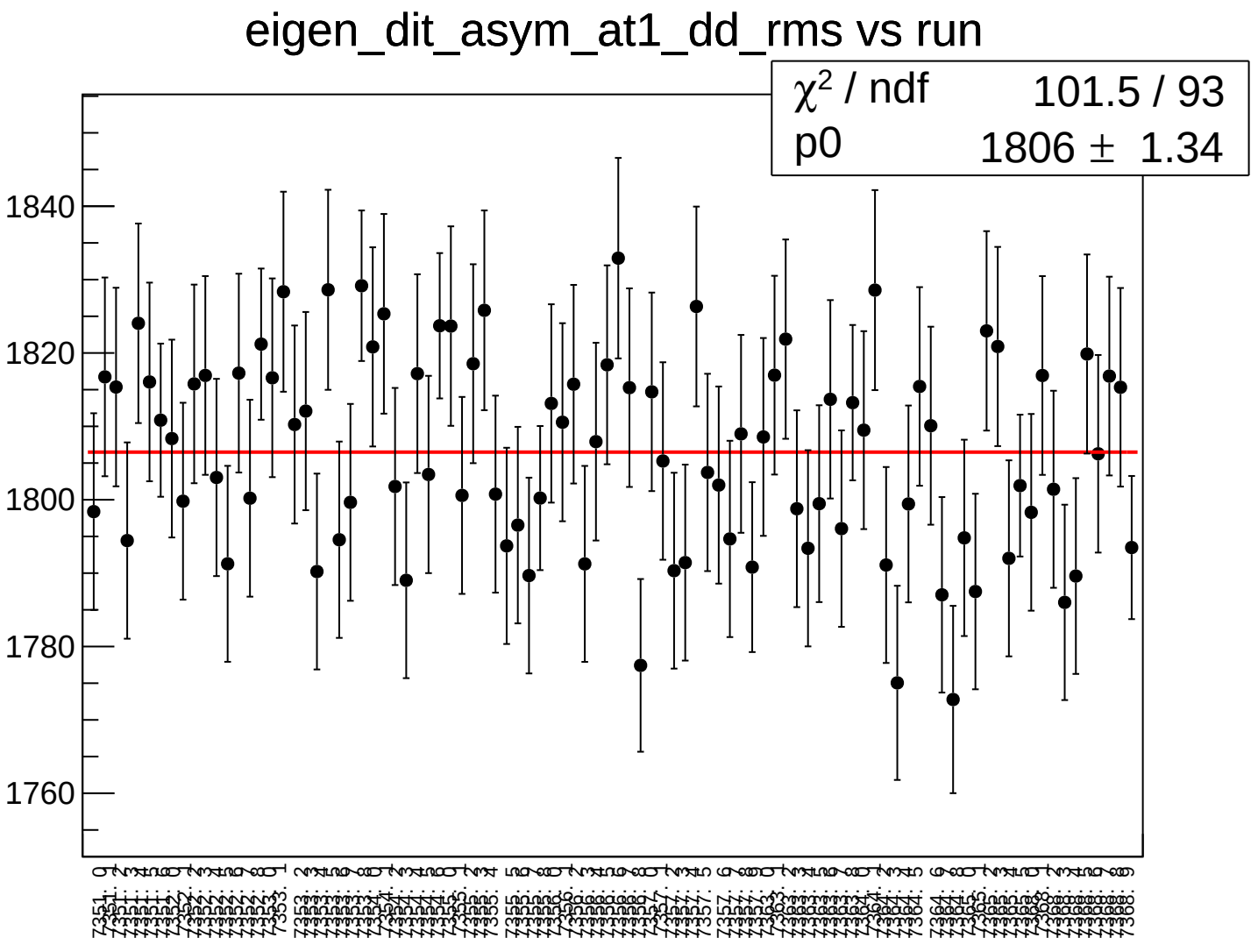

dit_asym_at1_dd_rms vs run
χ² / ndf 101.5 / 93
p0 1806 ± 1.34
1840
1820
1800
1780
1760

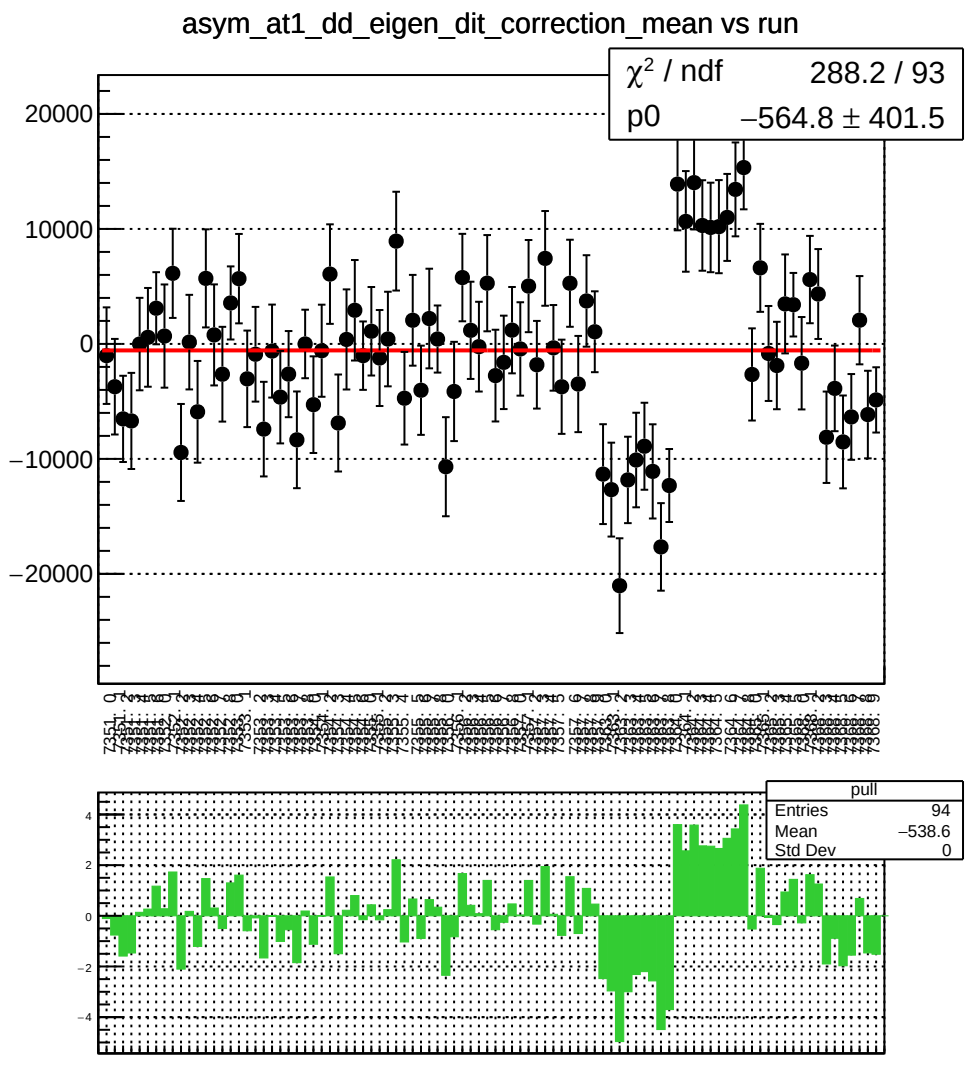

asym_at1_dd_dit_correction_mean vs run
χ² / ndf 288.2 / 93
p0 −564.8 ± 401.5
20000
10000
0
−10000
−20000
pull
Entries 94
Mean −538.6
Std Dev 0
4
2
0
−2
−4

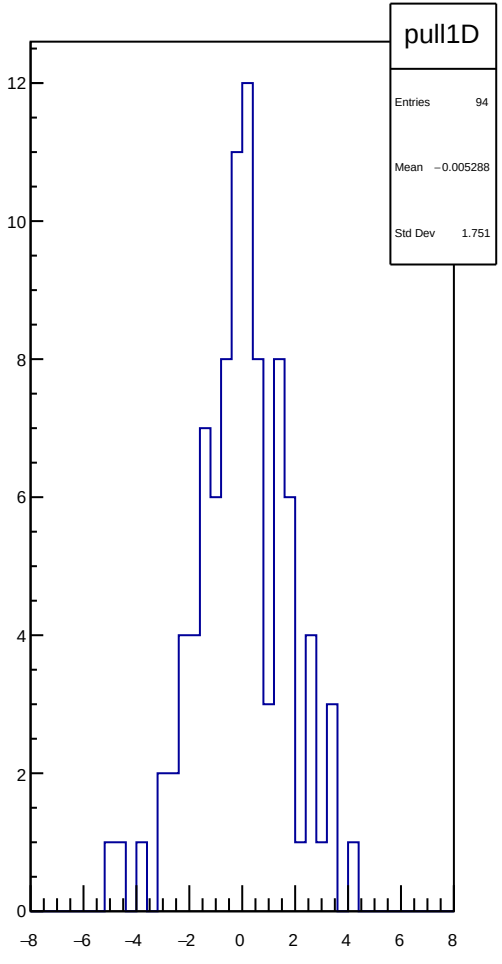

pull1D
Entries 94
Mean −0.005288
Std Dev 1.751
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

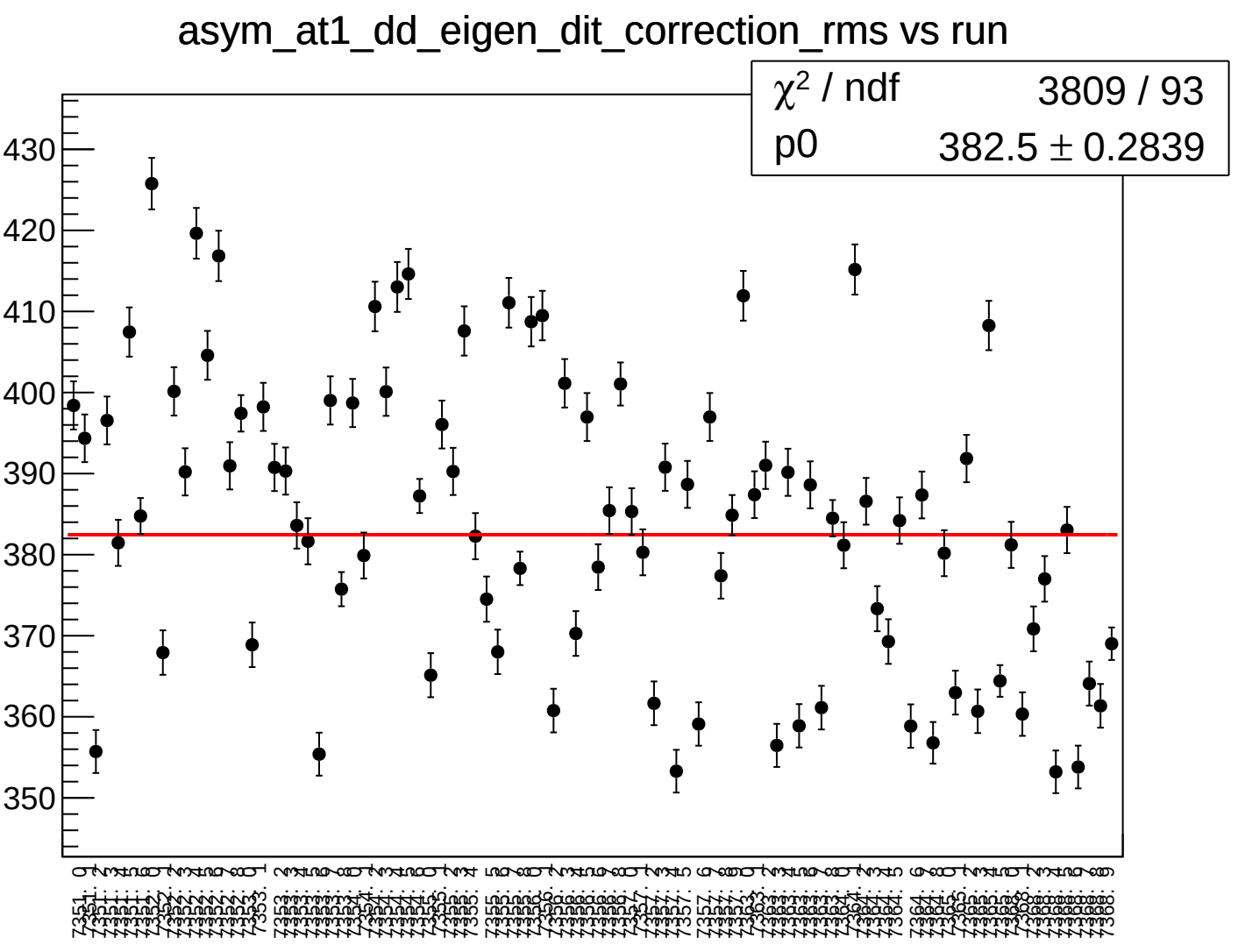

asym_at1_dd_dit_correction_rms vs run
χ² / ndf 3809 / 93
p0 382.5 ± 0.2839
430
420
410
400
390
380
370
360
350

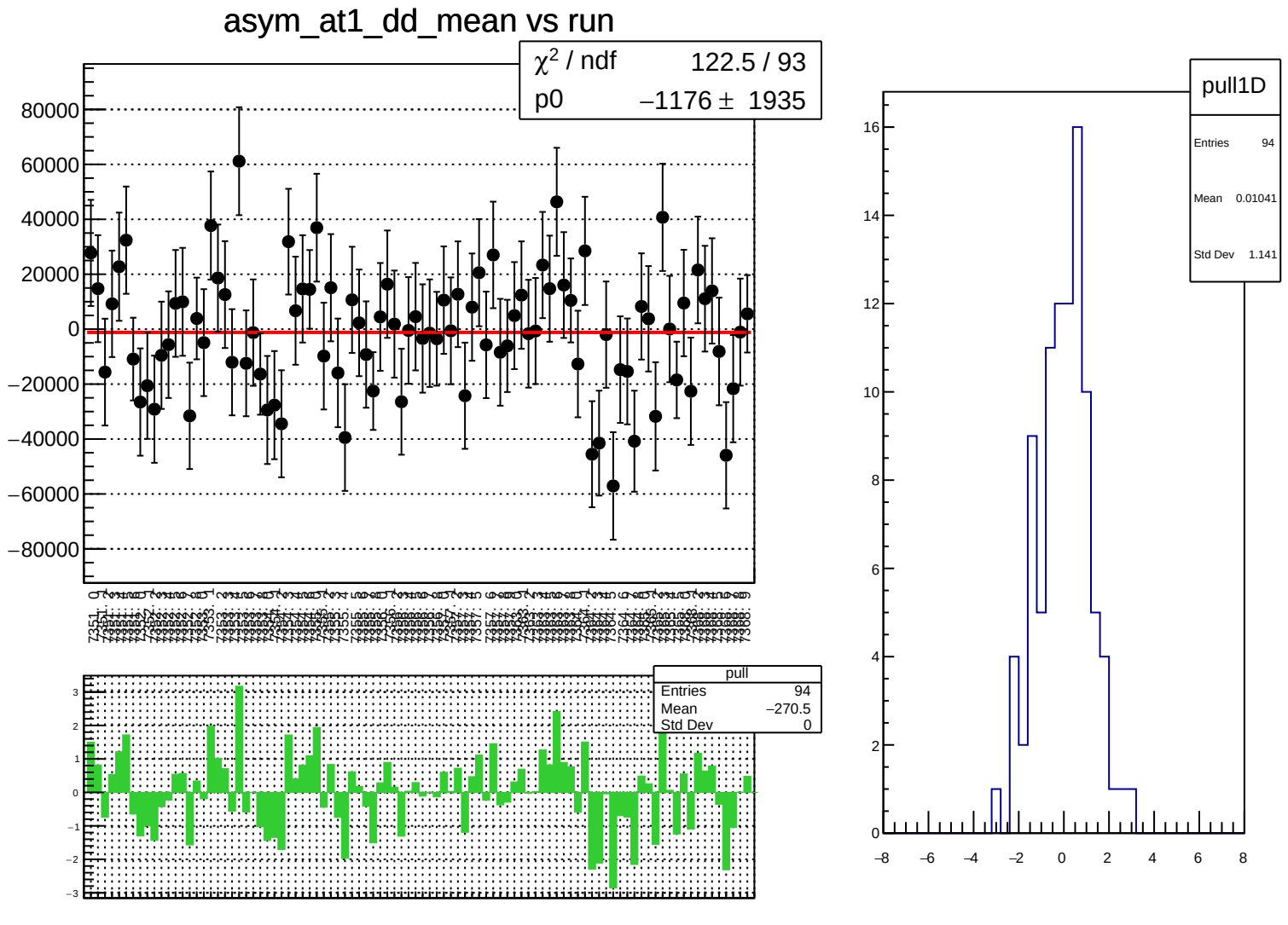

eigen_dit_asym_at1_dd_mean vs run
χ² / ndf 111.4 / 93
p0 −1748 ± 1894
pull
Entries 94
Mean −231.8
Std Dev 0
pull1D
Entries 94
Mean 0.009674
Std Dev 1.089

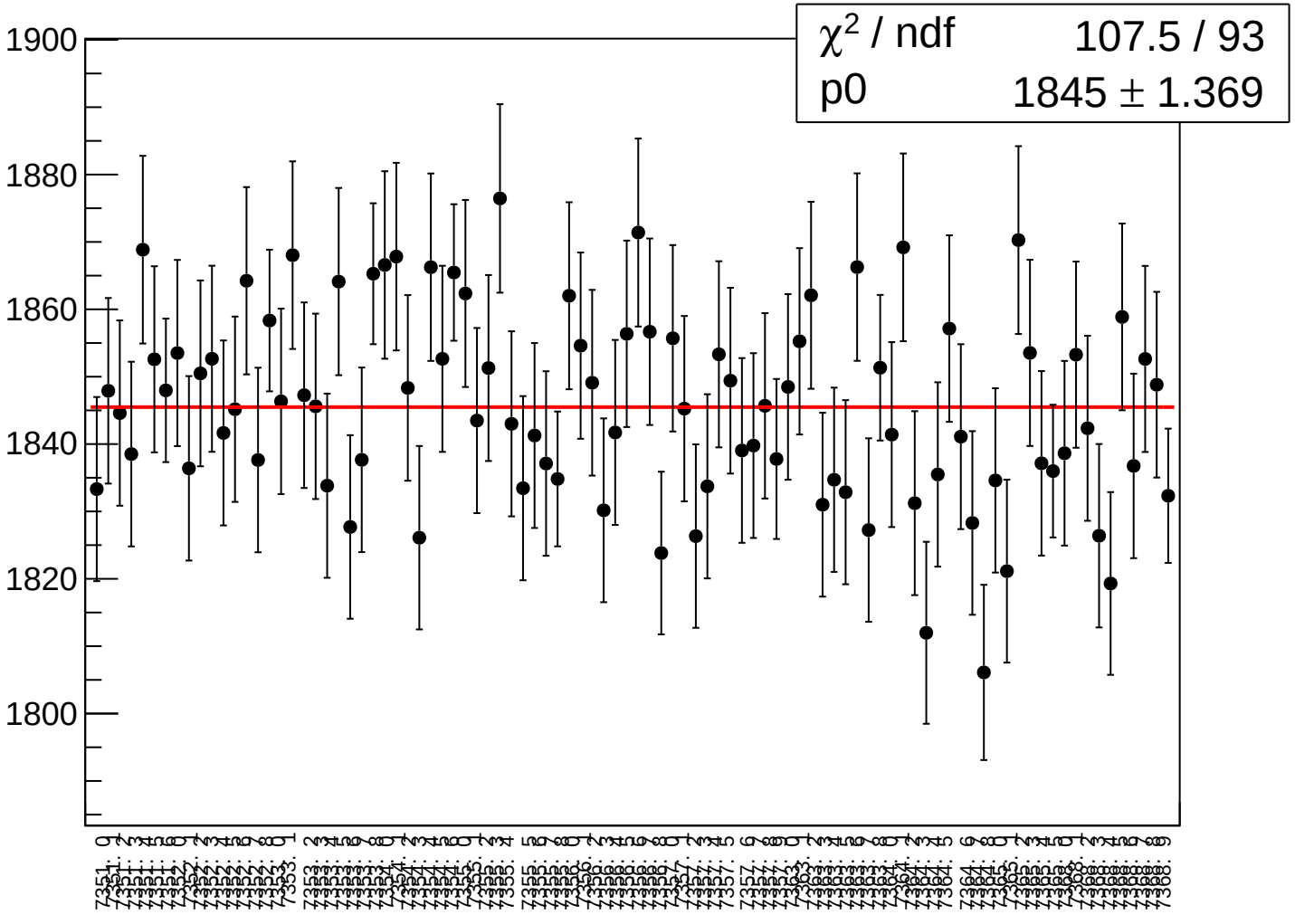

eigen_dit_asym_at1_dd_rms vs run
χ² / ndf 101.5 / 93
p0 1806 ± 1.34
1840
1820
1800
1780
1760

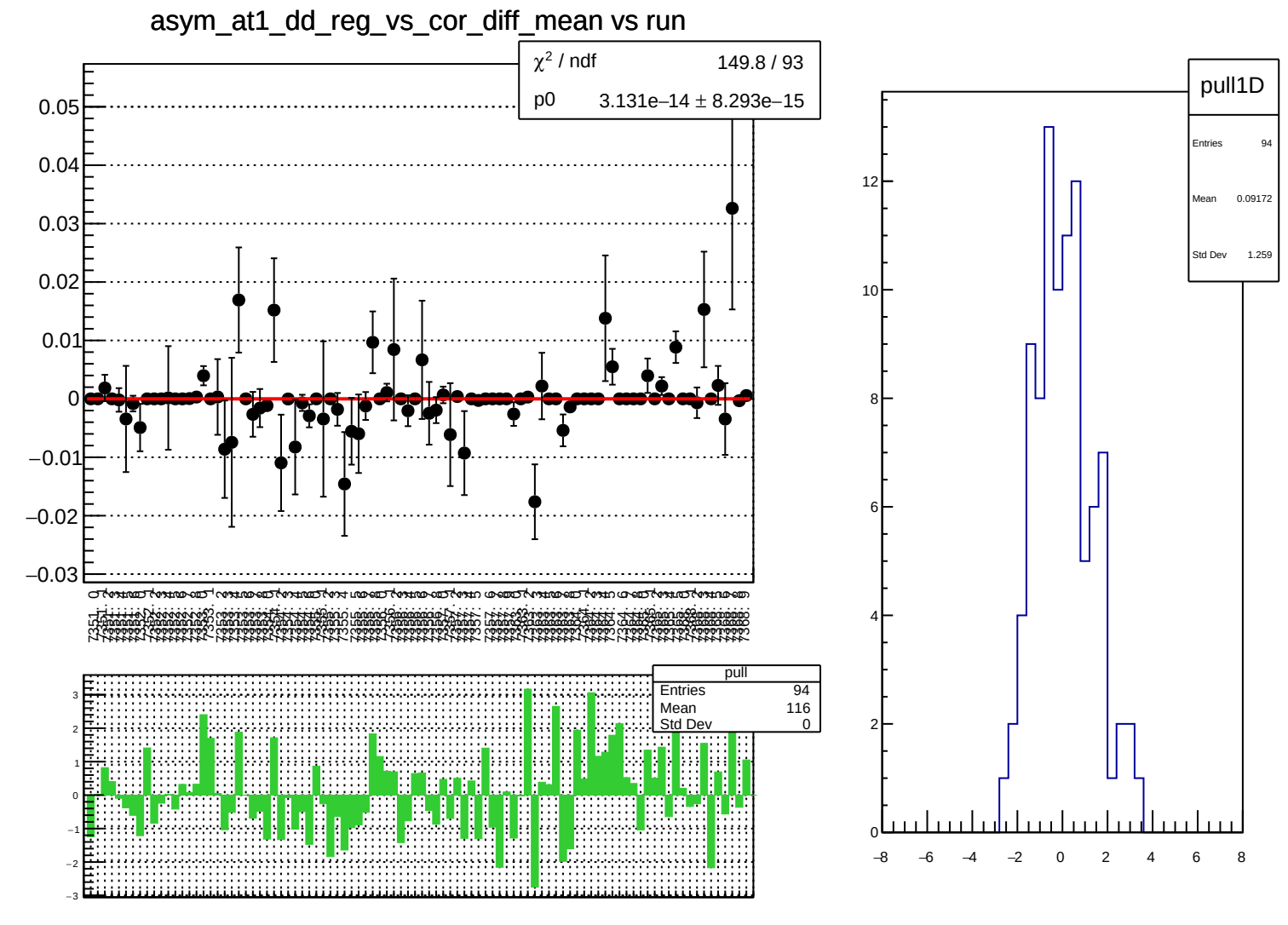

asym_at1_dd_eigen_dit_correction_mean vs run
χ² / ndf 288.2 / 93
p0 −564.8 ± 401.5
20000
10000
0
−10000
−20000
pull
Entries 94
Mean −538.6
Std Dev 0
4
2
0
−2
−4

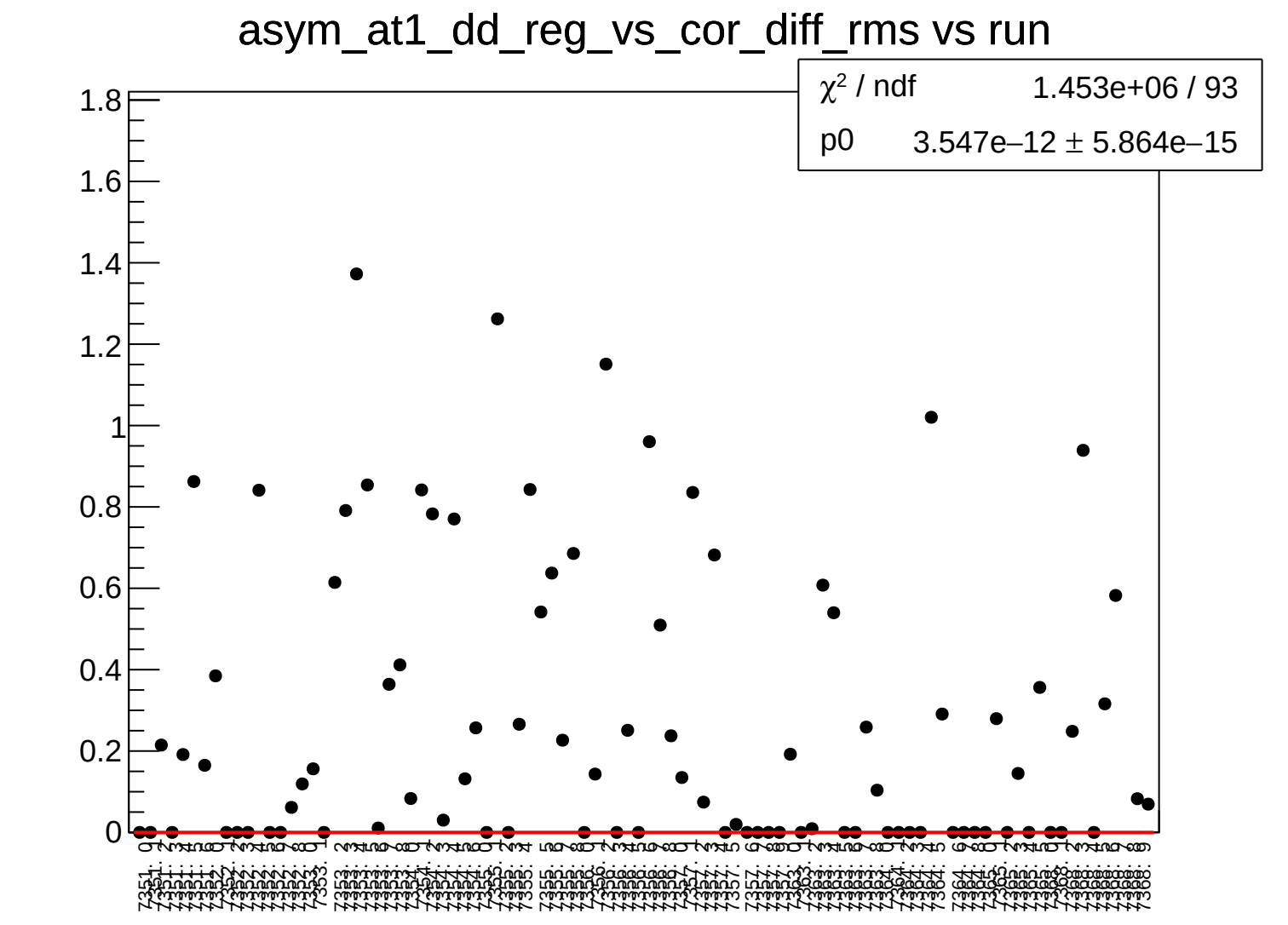

pull1D
Entries 94
Mean −0.005288
Std Dev 1.751
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

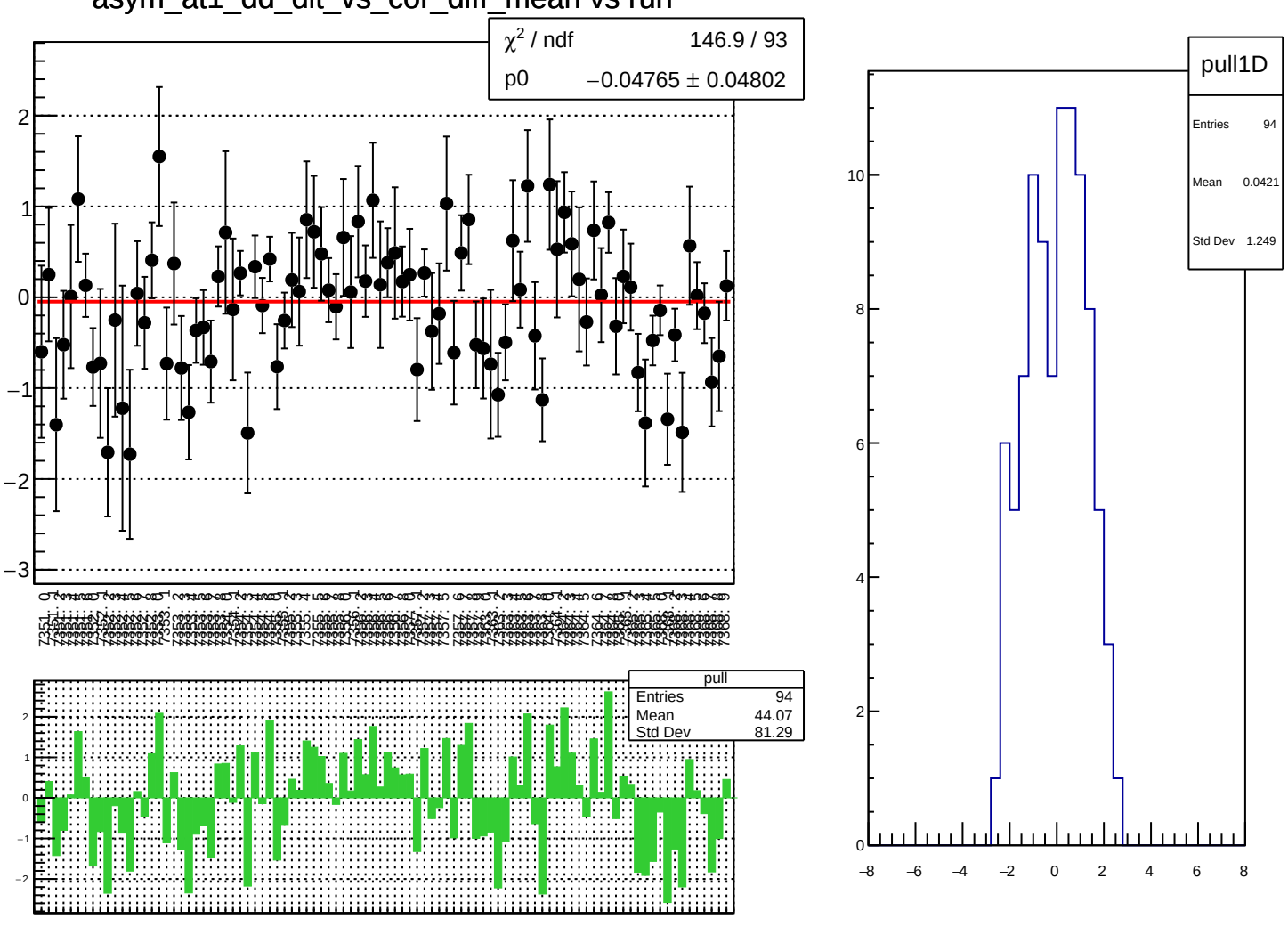

asym_at1_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 3809 / 93
p0 382.5 ± 0.2839
430
420
410
400
390
380
370
360
350

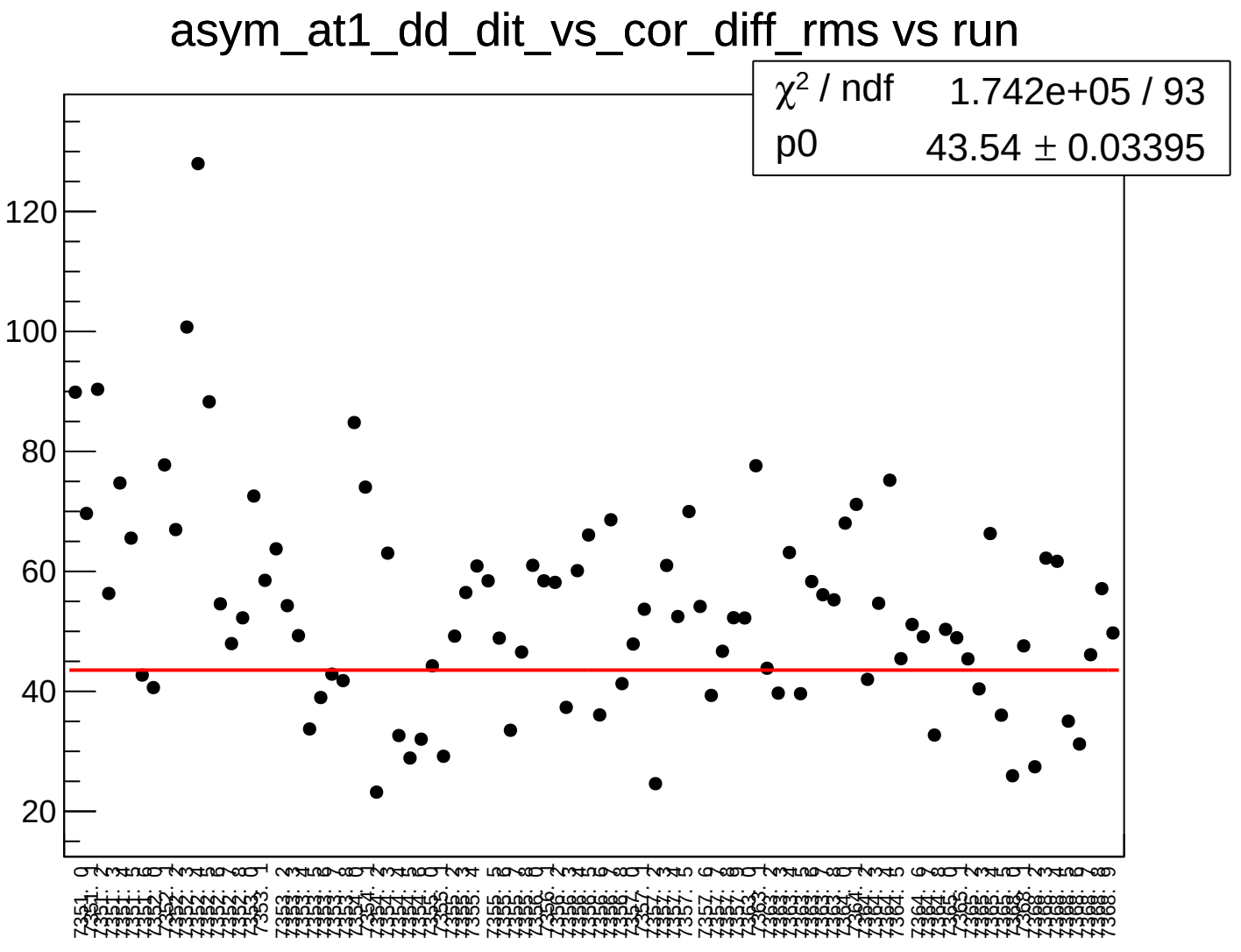

asym_at1_dd_mean vs run
χ² / ndf 122.5 / 93
p0 −1176 ± 1935
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean −270.5
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.01041
Std Dev 1.141
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

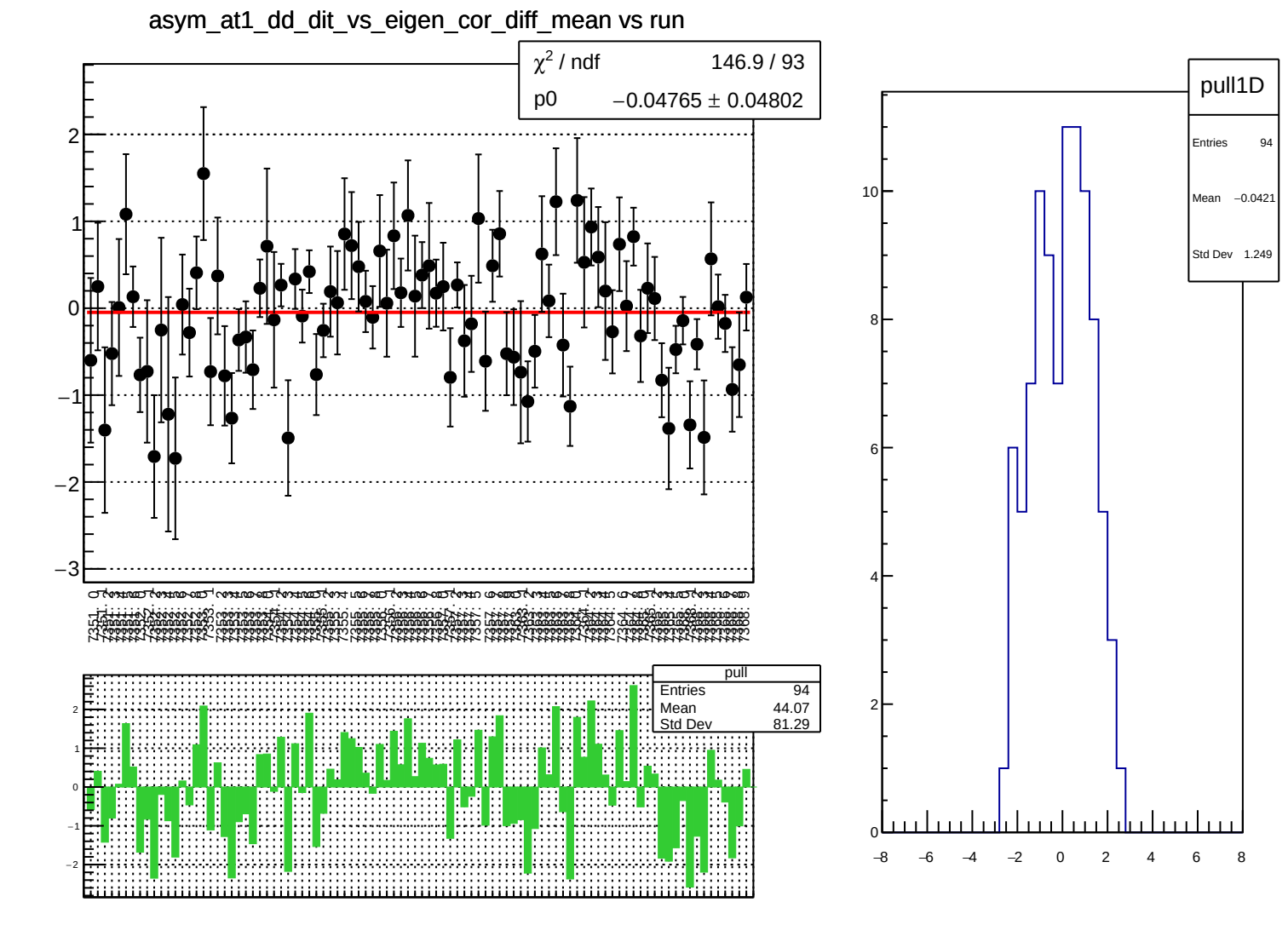

asym_at1_dd_rms vs run
χ^2 / ndf 107.5 / 93
p0 1845 ± 1.369
1900
1880
1860
1840
1820
1800

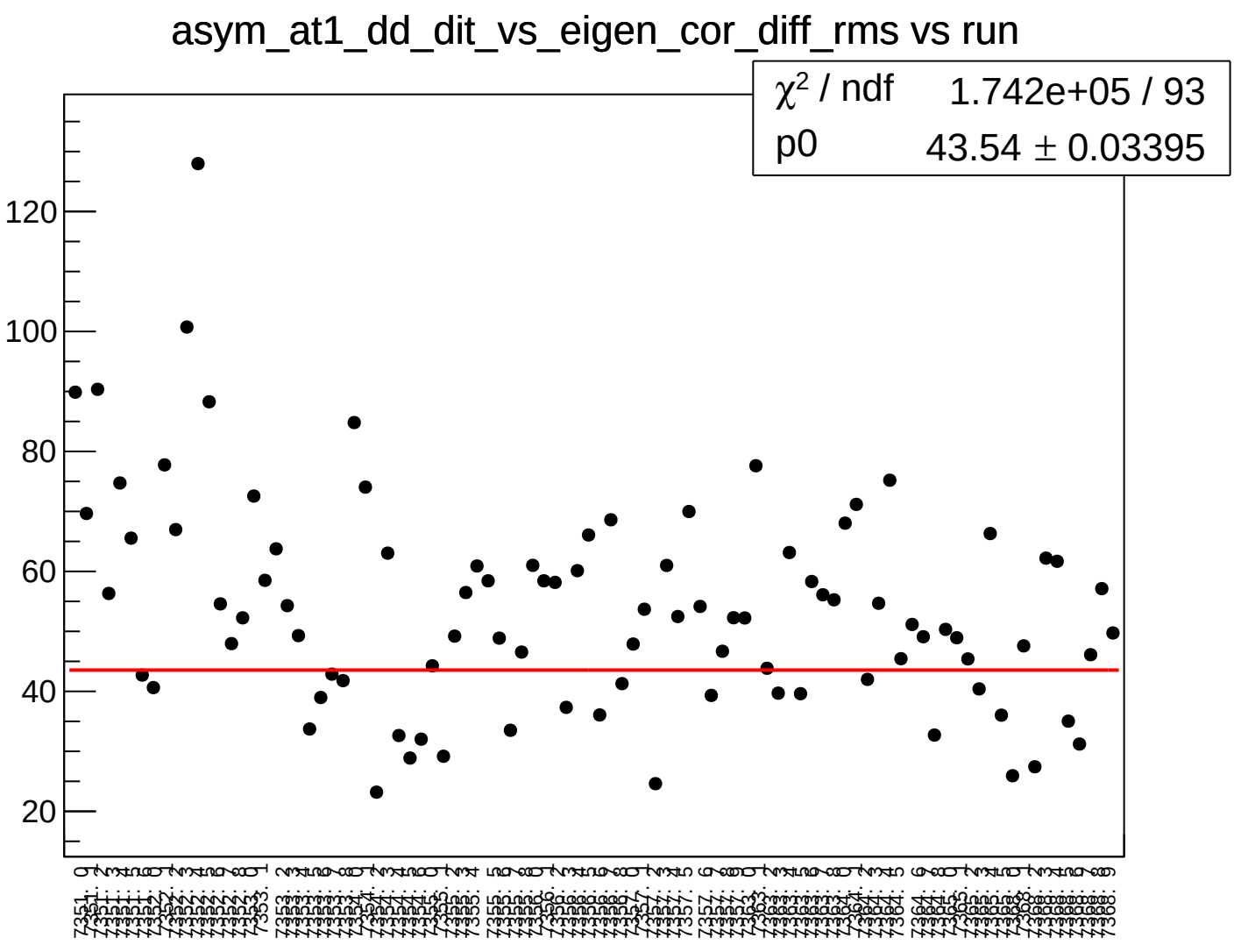

asym_at1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 149.8 / 93
p0 3.131e−14 ± 8.293e−15
pull
Entries 94
Mean 116
Std Dev 0
pull1D
Entries 94
Mean 0.09172
Std Dev 1.259

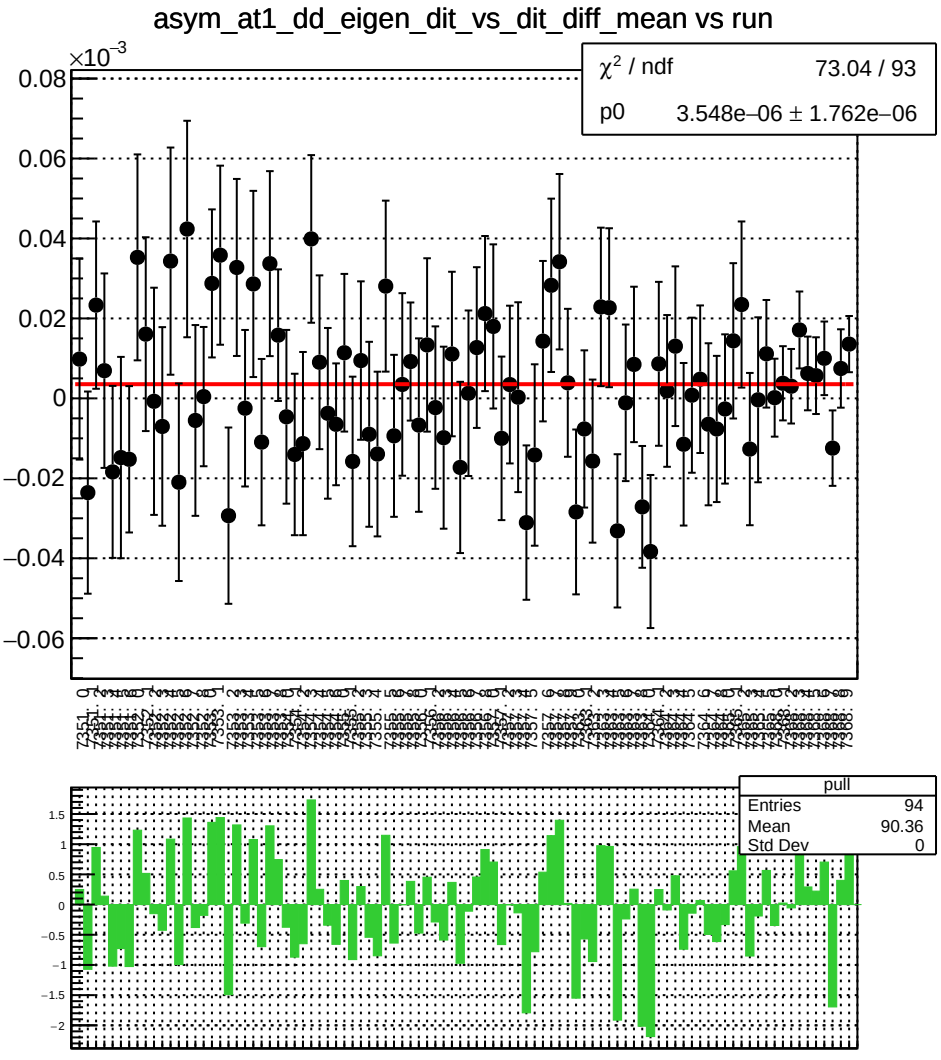

asym_at1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.453e+06 / 93
p0 3.547e−12 ± 5.864e−15
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

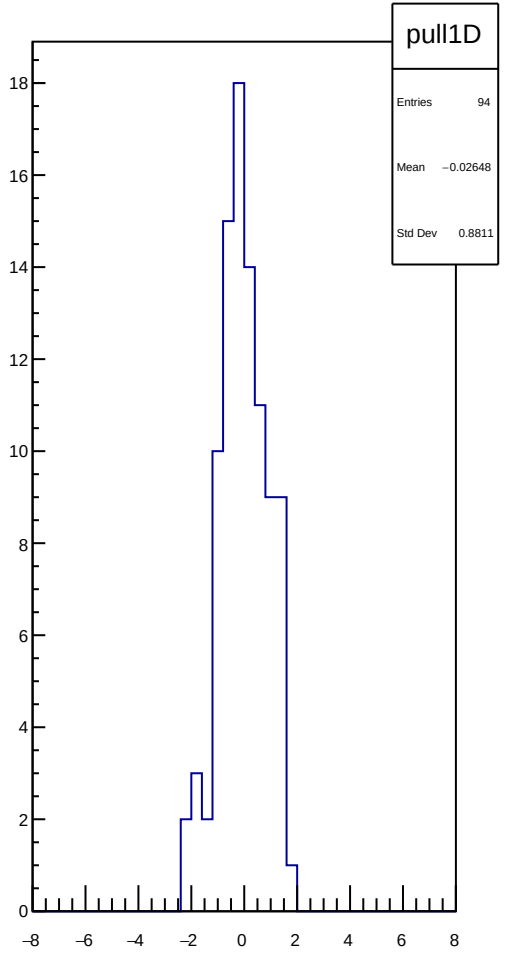

asym_at1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 146.9 / 93
p0 −0.04765 ± 0.04802
pull
Entries 94
Mean 44.07
Std Dev 81.29
pull1D
Entries 94
Mean −0.0421
Std Dev 1.249

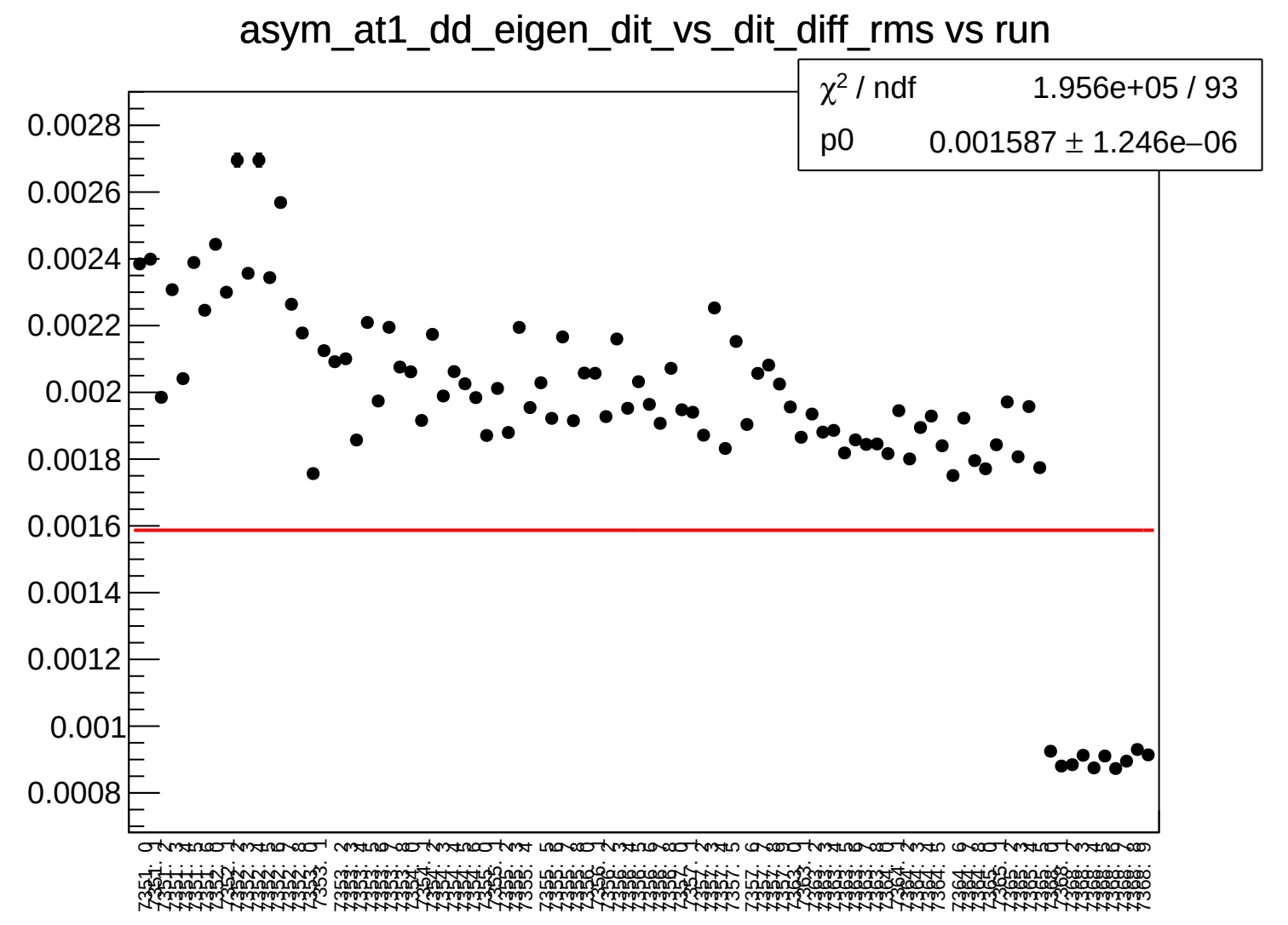

asym_at1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.742e+05 / 93
p0 43.54 ± 0.03395
120
100
80
60
40
20

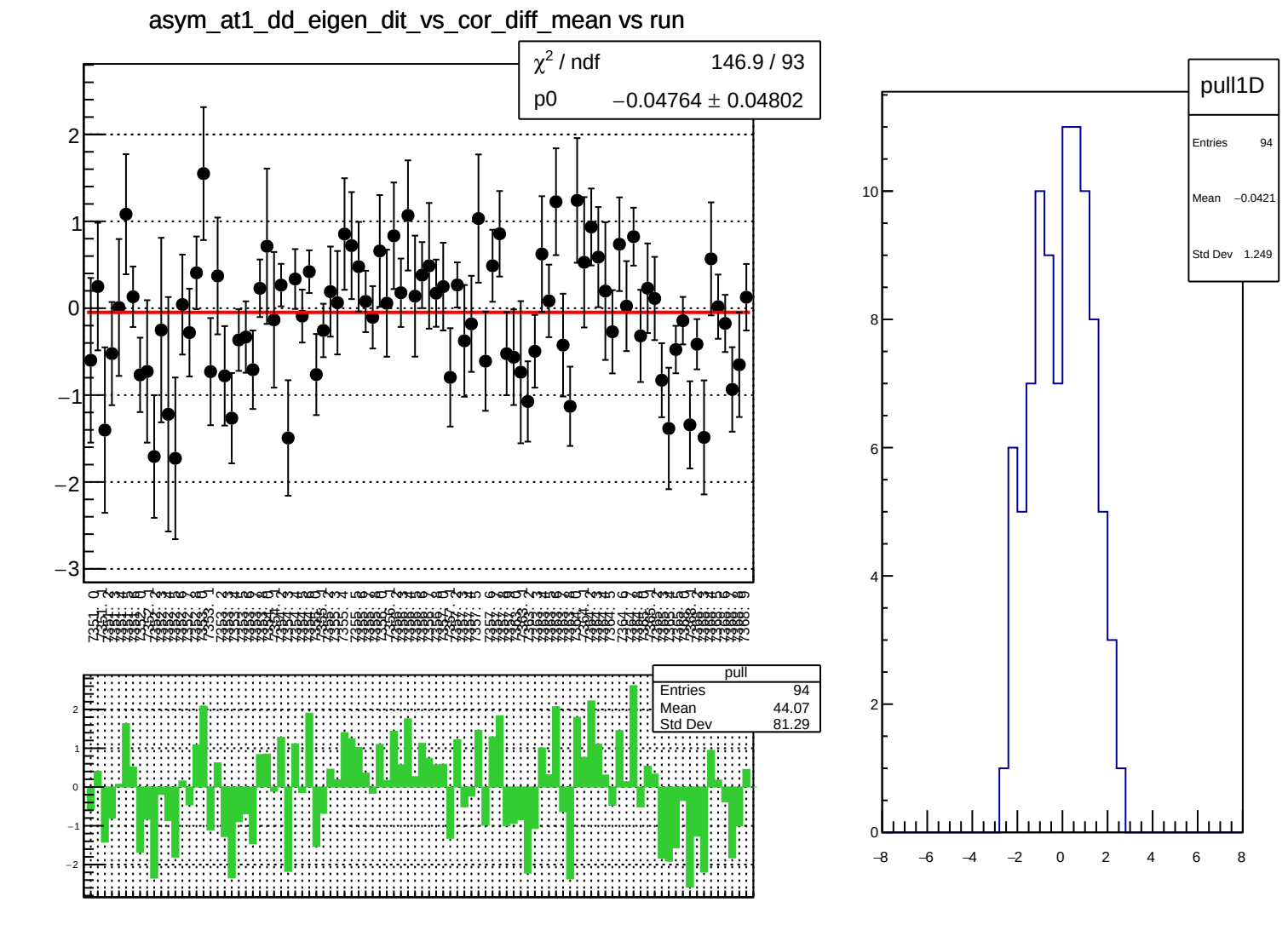

asym_at1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 146.9 / 93
p0 −0.04765 ± 0.04802
pull
Entries 94
Mean 44.07
Std Dev 81.29
pull1D
Entries 94
Mean −0.0421
Std Dev 1.249

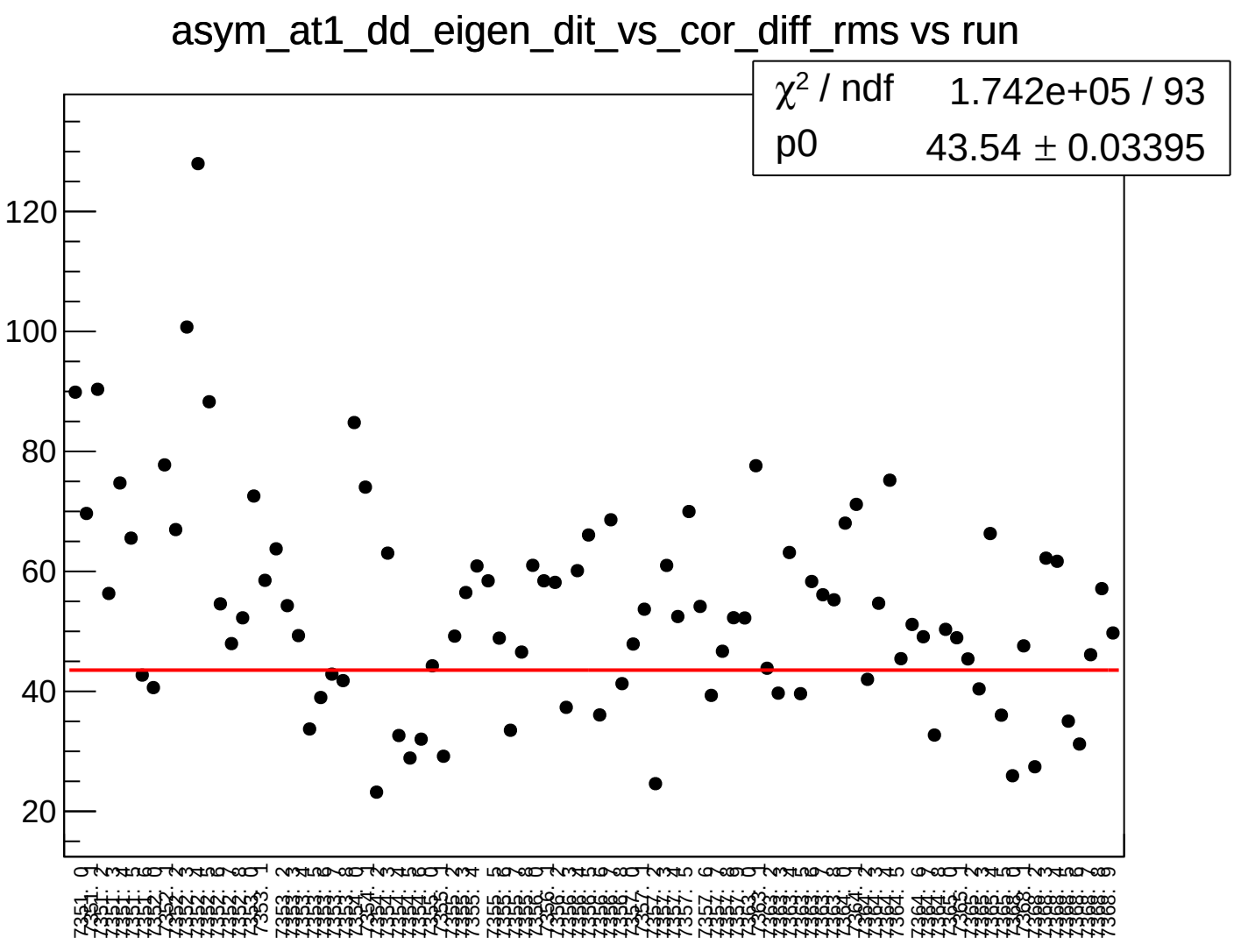

asym_at1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.742e+05 / 93
p0 43.54 ± 0.03395
120
100
80
60
40
20

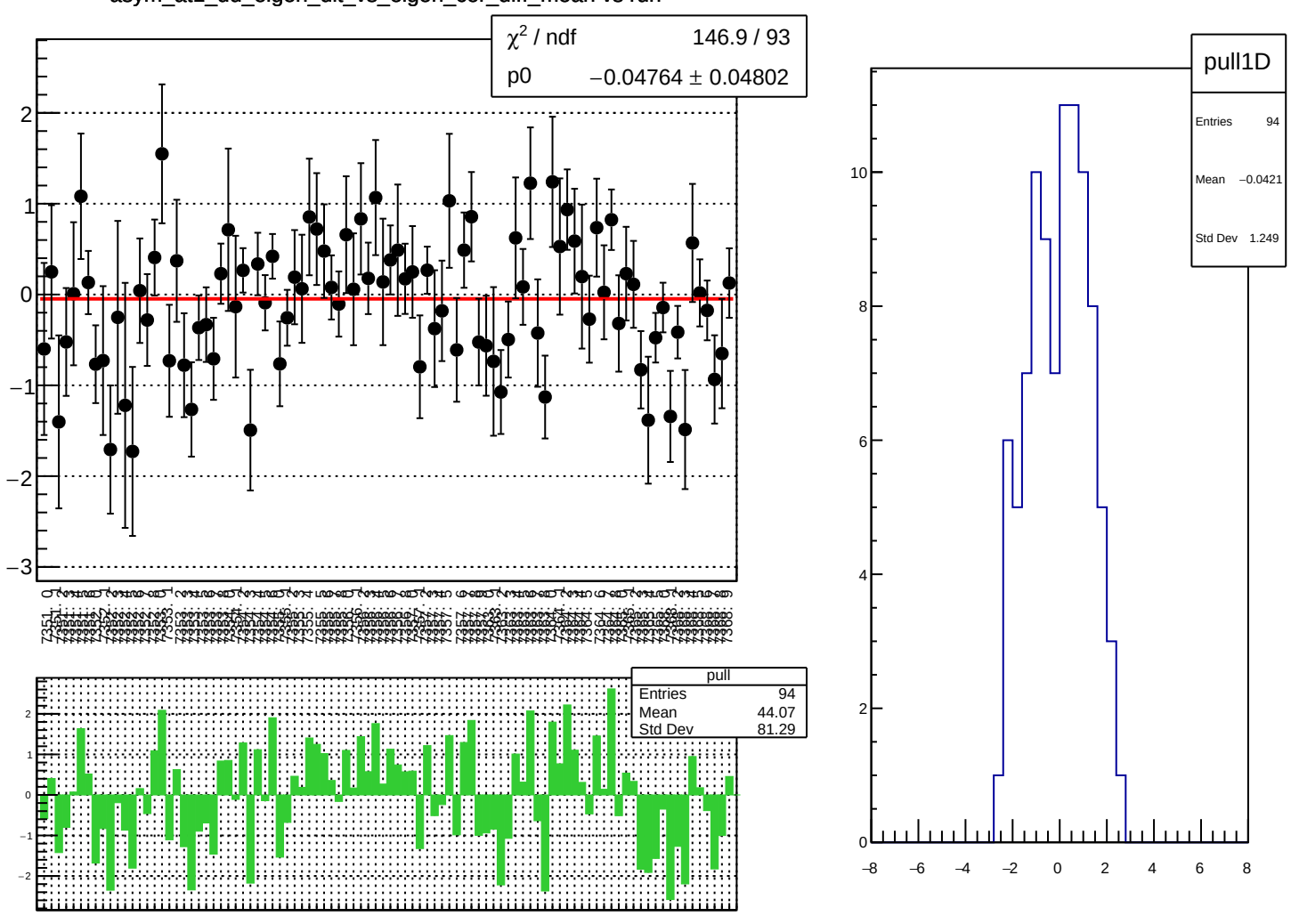

asym_at1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.04 / 93
p0 3.548e−06 ± 1.762e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 94
Mean 90.36
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

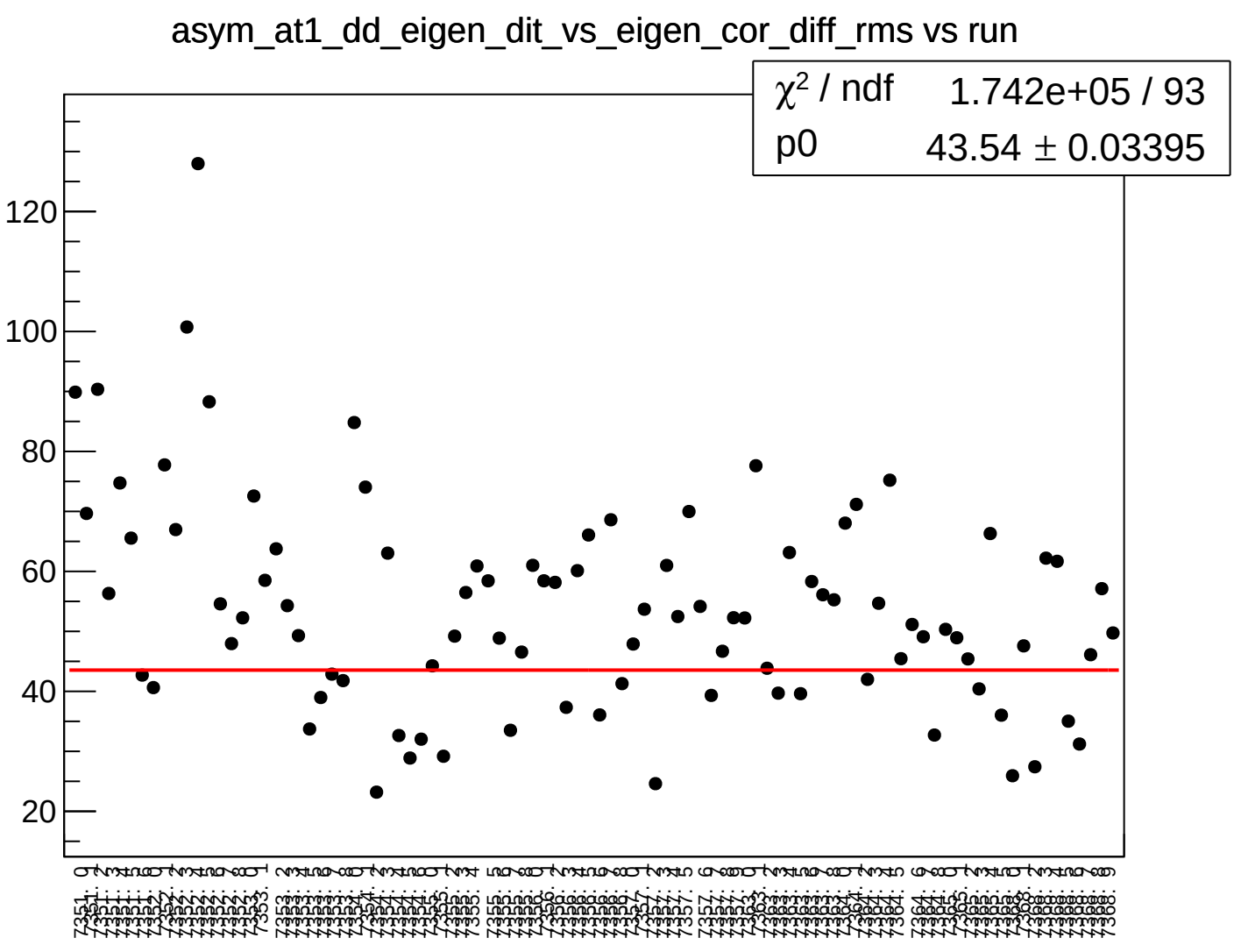

pull1D
Entries 94
Mean −0.02648
Std Dev 0.8811
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

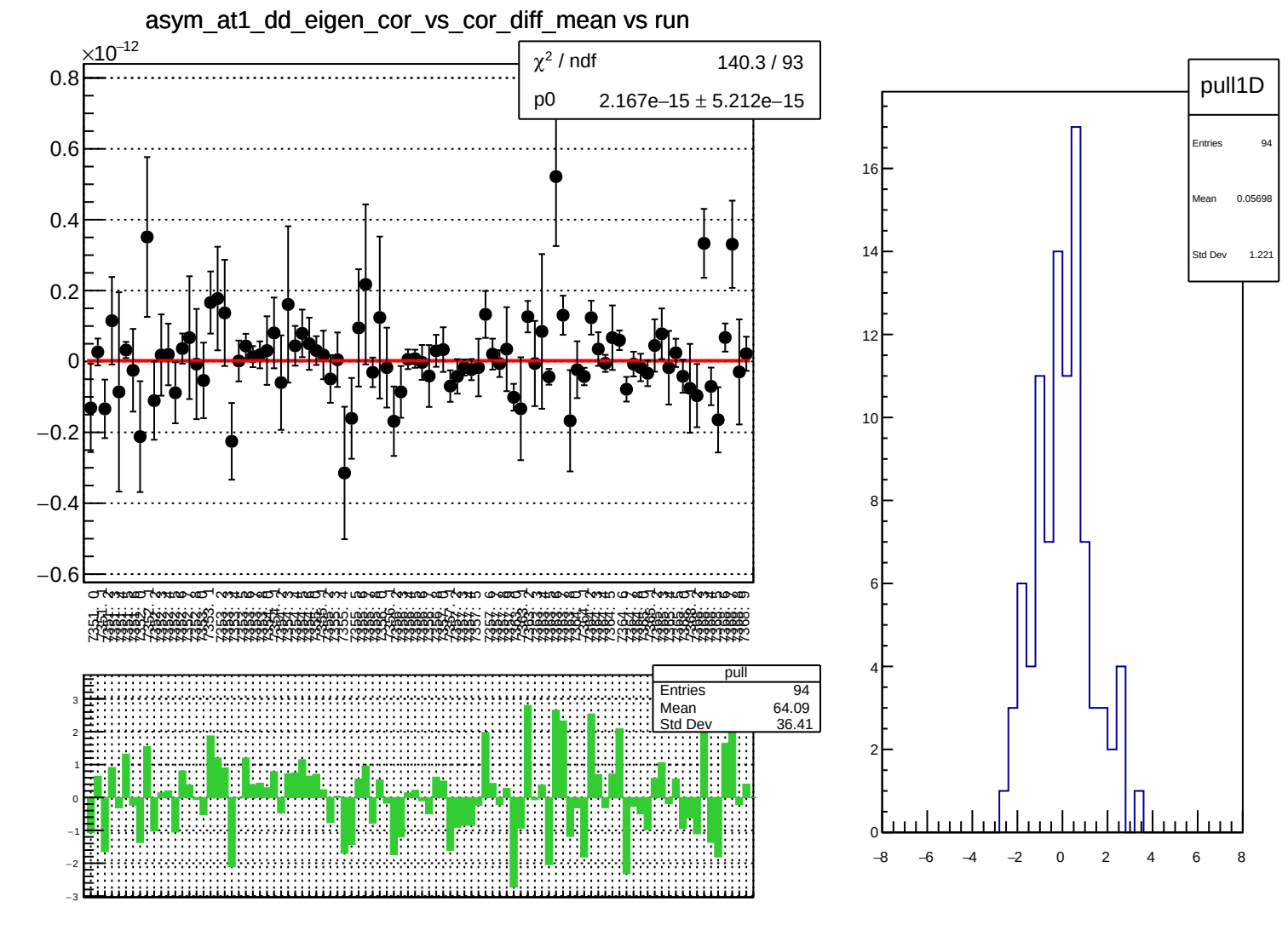

asym_at1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.956e+05 / 93
p0 0.001587 ± 1.246e−06
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008

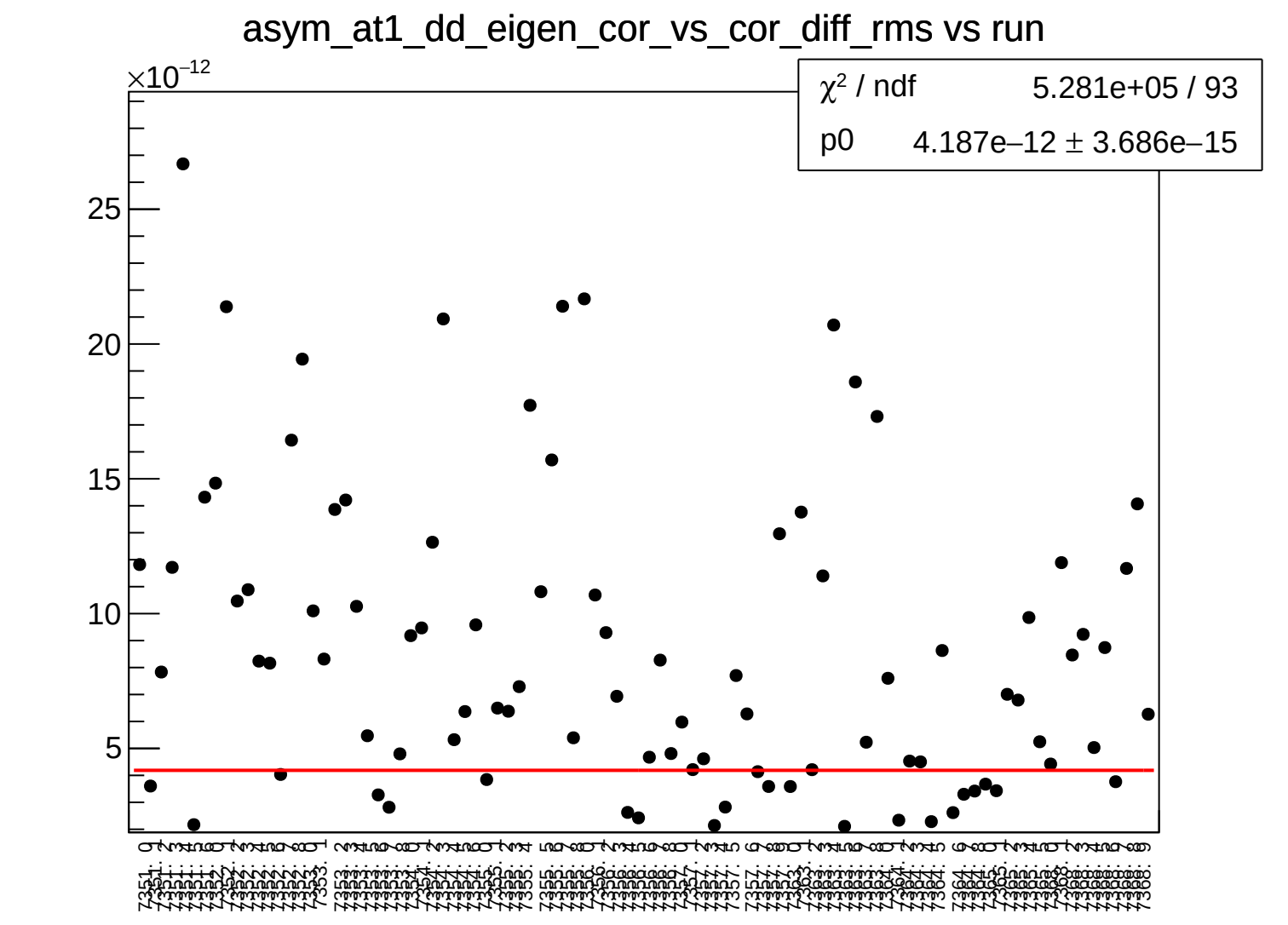

asym_at1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 146.9 / 93
p0 −0.04764 ± 0.04802
pull
Entries 94
Mean 44.07
Std Dev 81.29
pull1D
Entries 94
Mean −0.0421
Std Dev 1.249

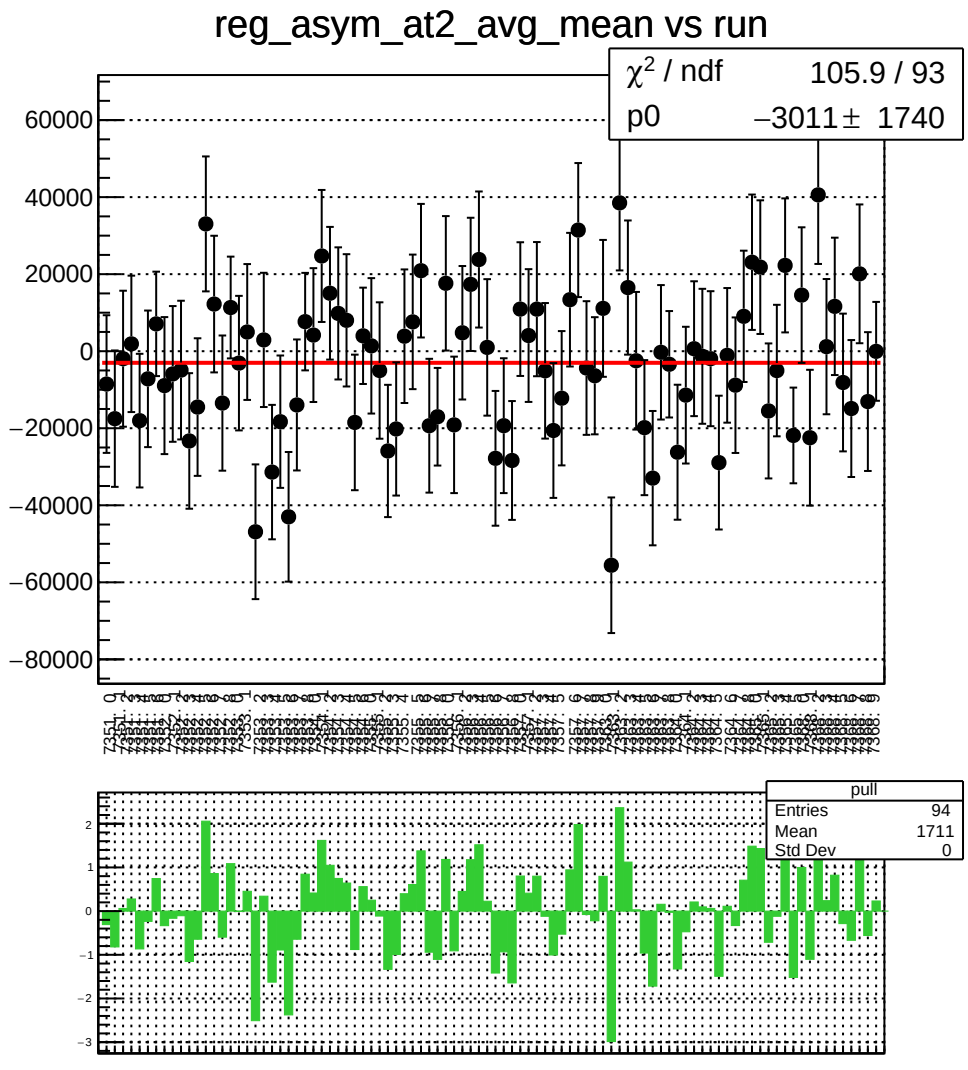

asym_at1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.742e+05 / 93
p0 43.54 ± 0.03395
120
100
80
60
40
20

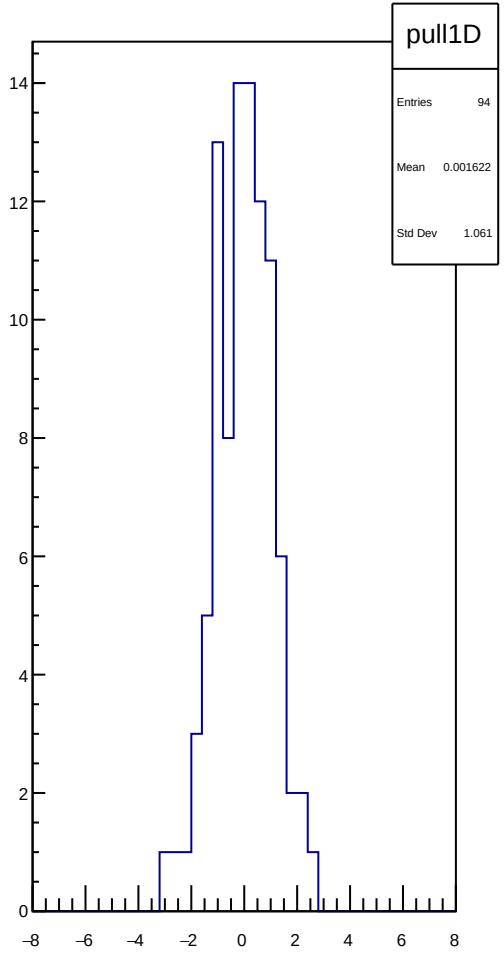

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 146.9 / 93
p0 −0.04764 ± 0.04802
pull
Entries 94
Mean 44.07
Std Dev 81.29
pull1D
Entries 94
Mean −0.0421
Std Dev 1.249

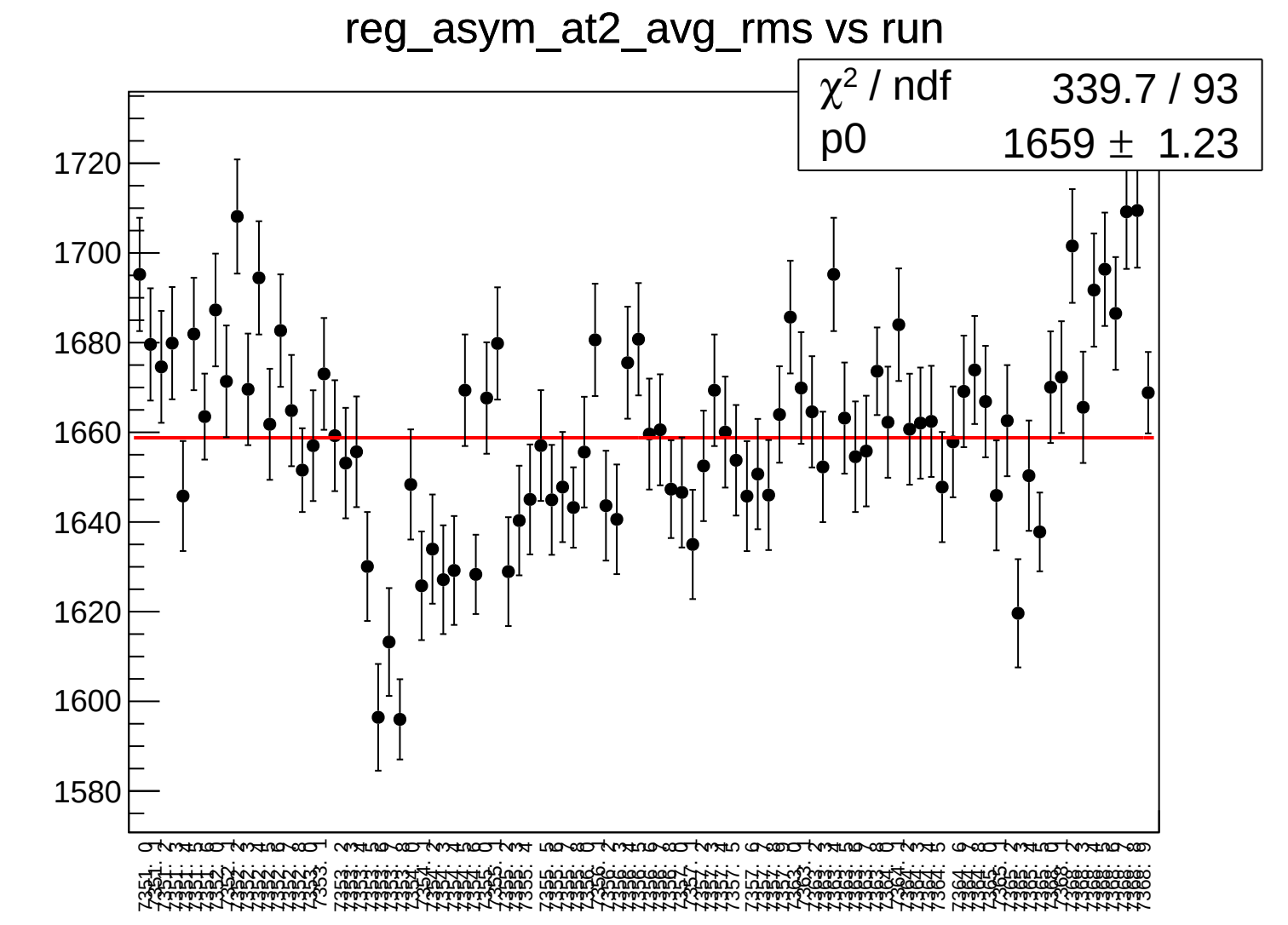

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.742e+05 / 93
p0 43.54 ± 0.03395
120
100
80
60
40
20

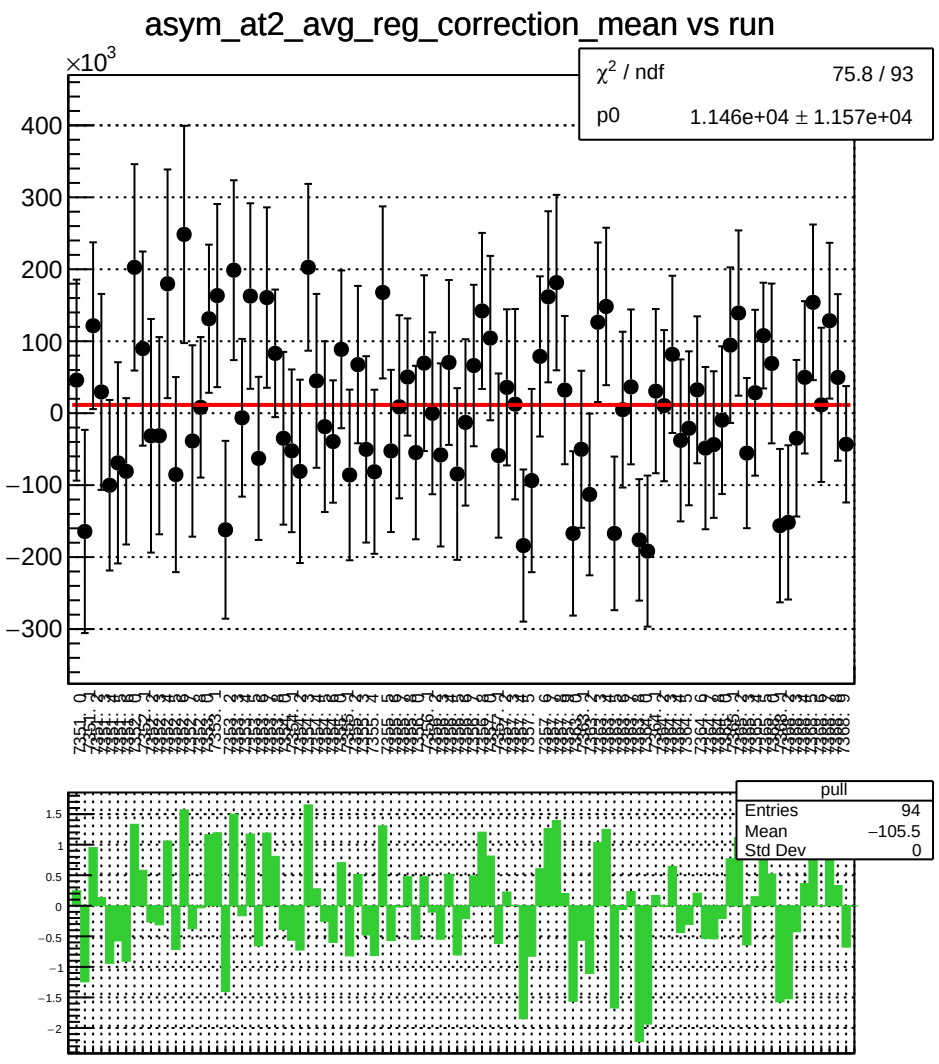

asym_at1_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 140.3 / 93
p0 2.167e−15 ± 5.212e−15
pull
Entries 94
Mean 64.09
Std Dev 36.41
pull1D
Entries 94
Mean 0.05698
Std Dev 1.221

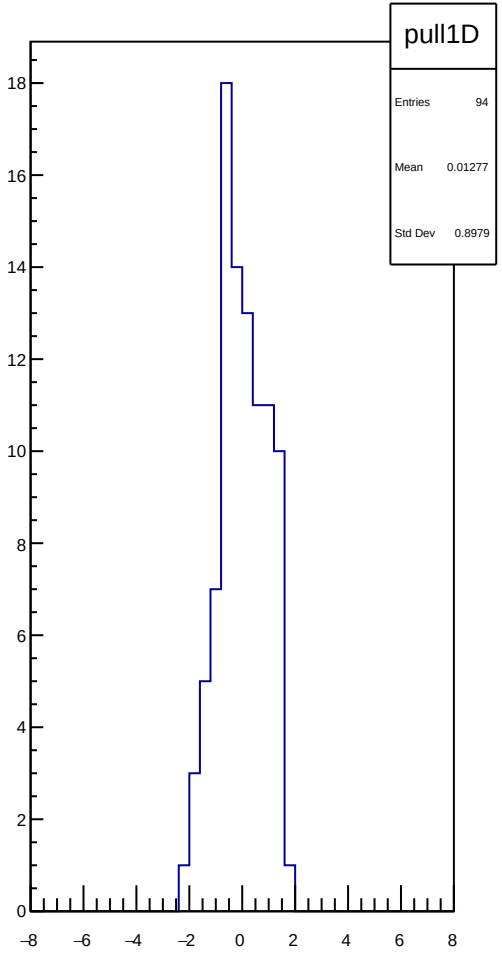

asym_at1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.281e+05 / 93
p0 4.187e−12 ± 3.686e−15
25
20
15
10
5

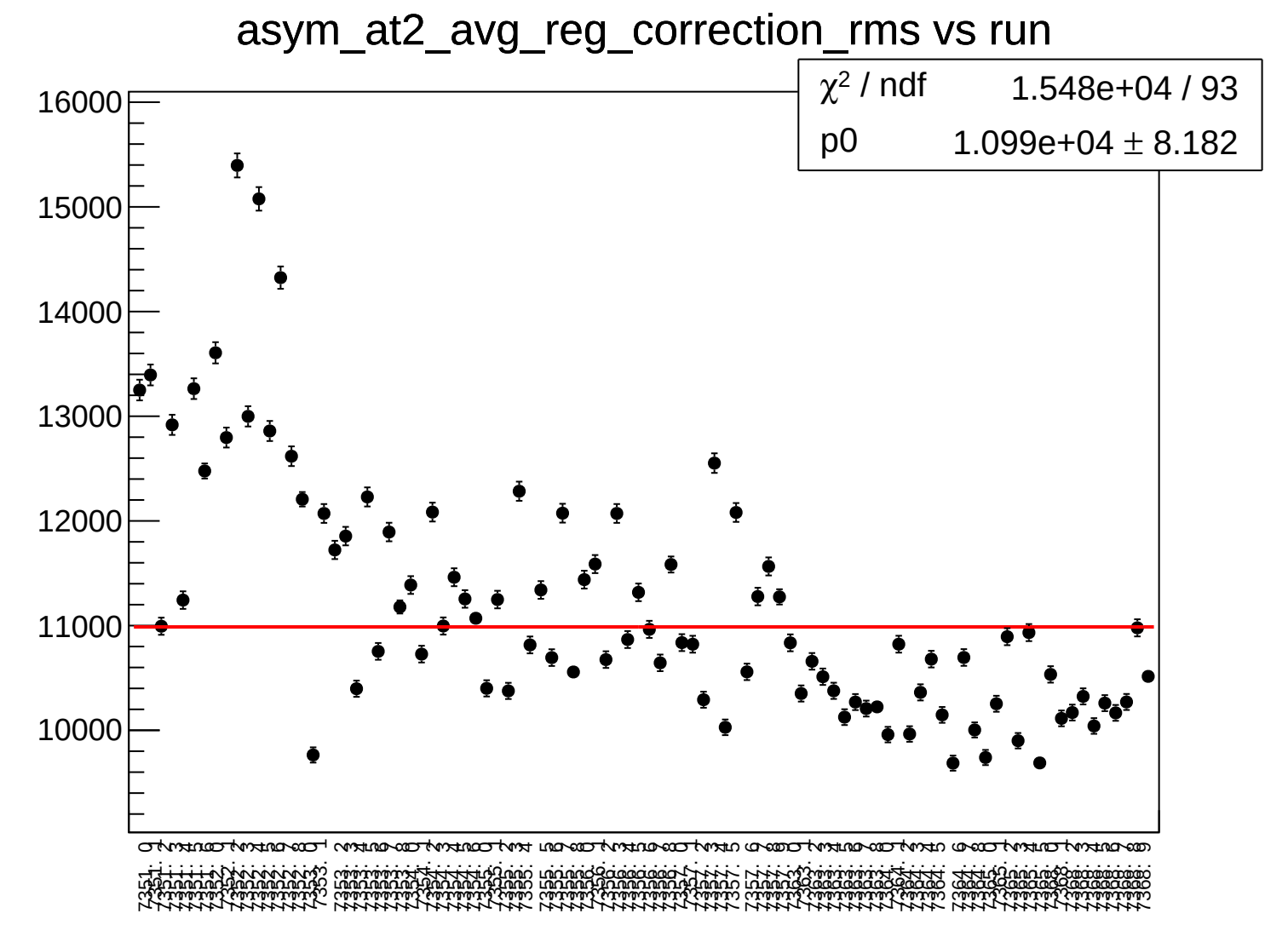

reg_asym_at2_avg_mean vs run
χ² / ndf 105.9 / 93
p0 −3011 ± 1740
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean 1711
Std Dev 0
2
1
0
−1
−2
−3

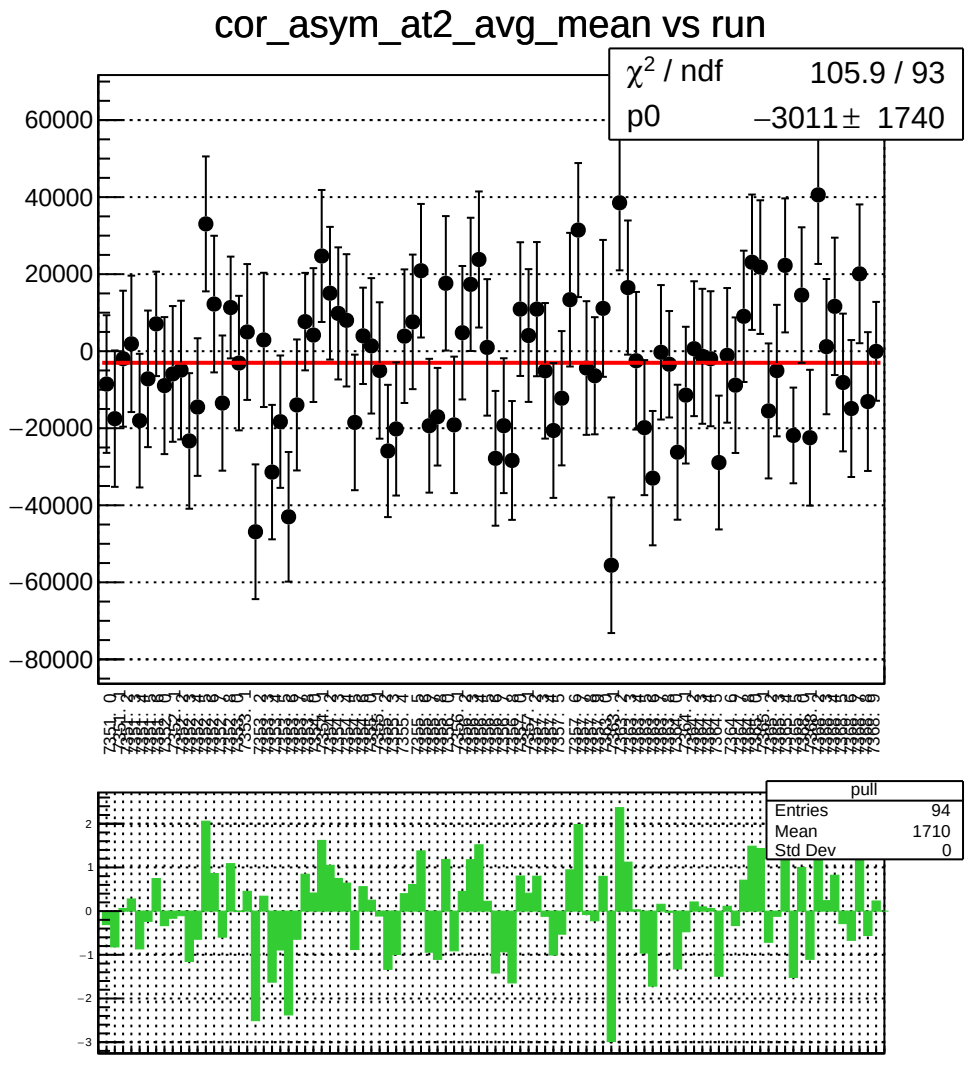

pull1D
Entries 94
Mean 0.001622
Std Dev 1.061
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

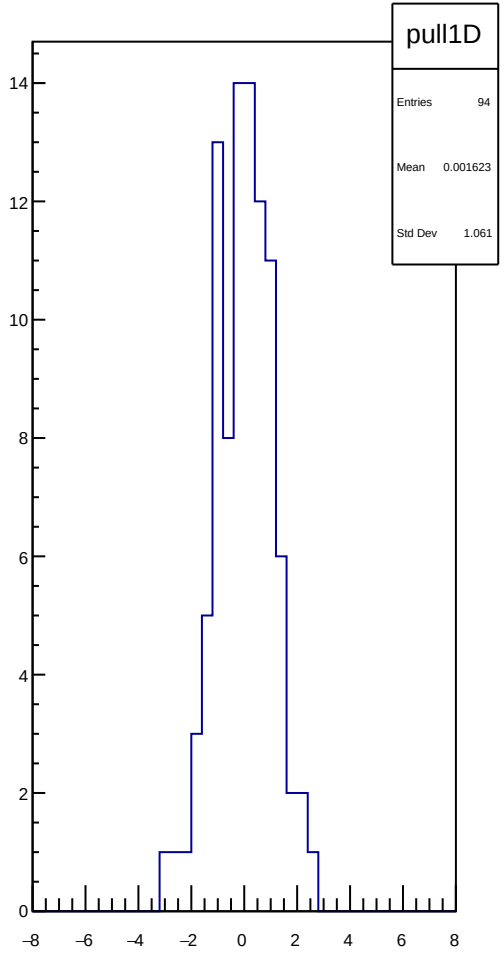

reg_asym_at2_avg_rms vs run
χ² / ndf 339.7 / 93
p0 1659 ± 1.23
1720
1700
1680
1660
1640
1620
1600
1580

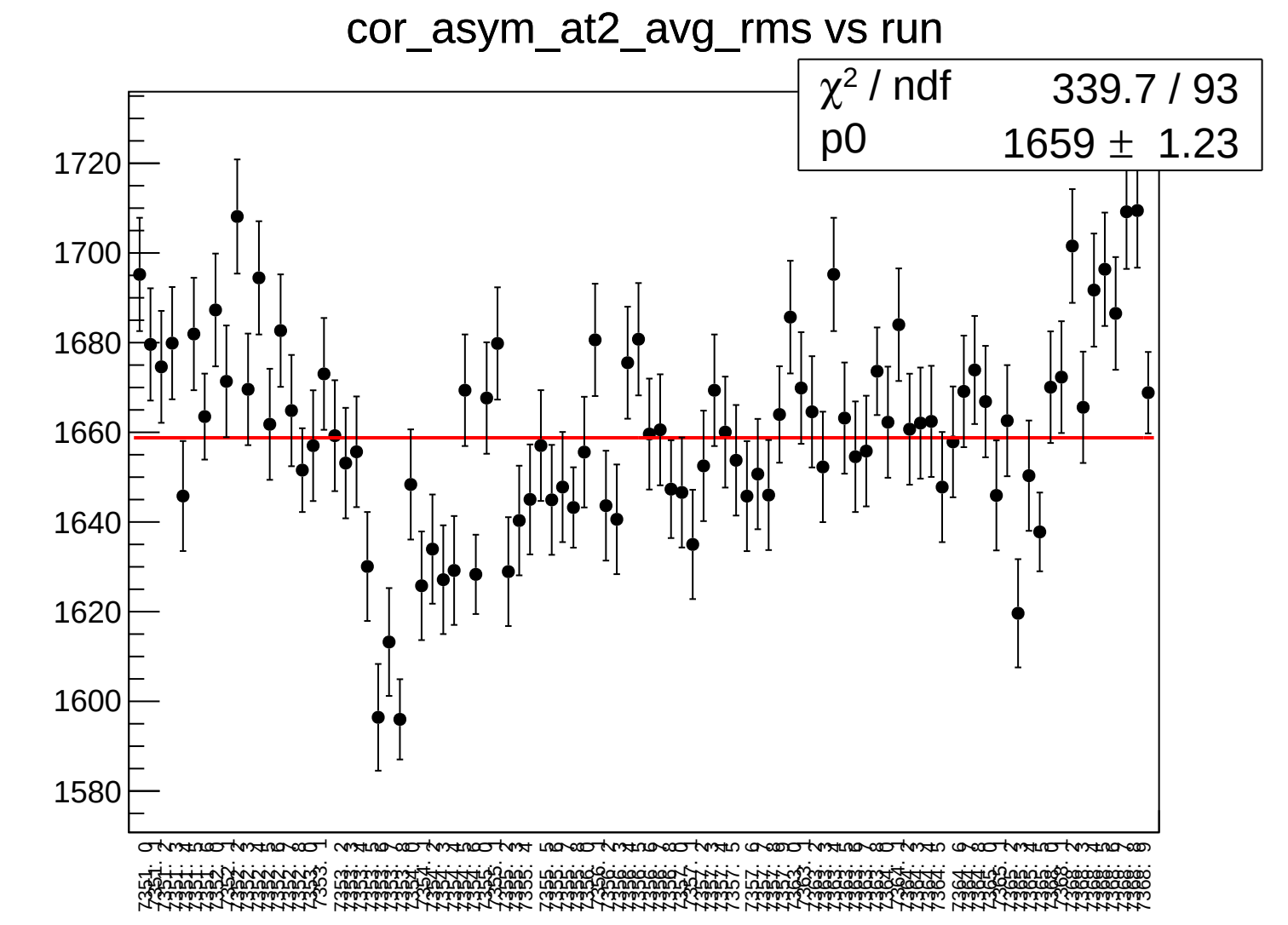

asym_at2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 75.8 / 93
p0 1.146e+04 ± 1.157e+04
400
300
200
100
0
−100
−200
−300
pull
Entries 94
Mean −105.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

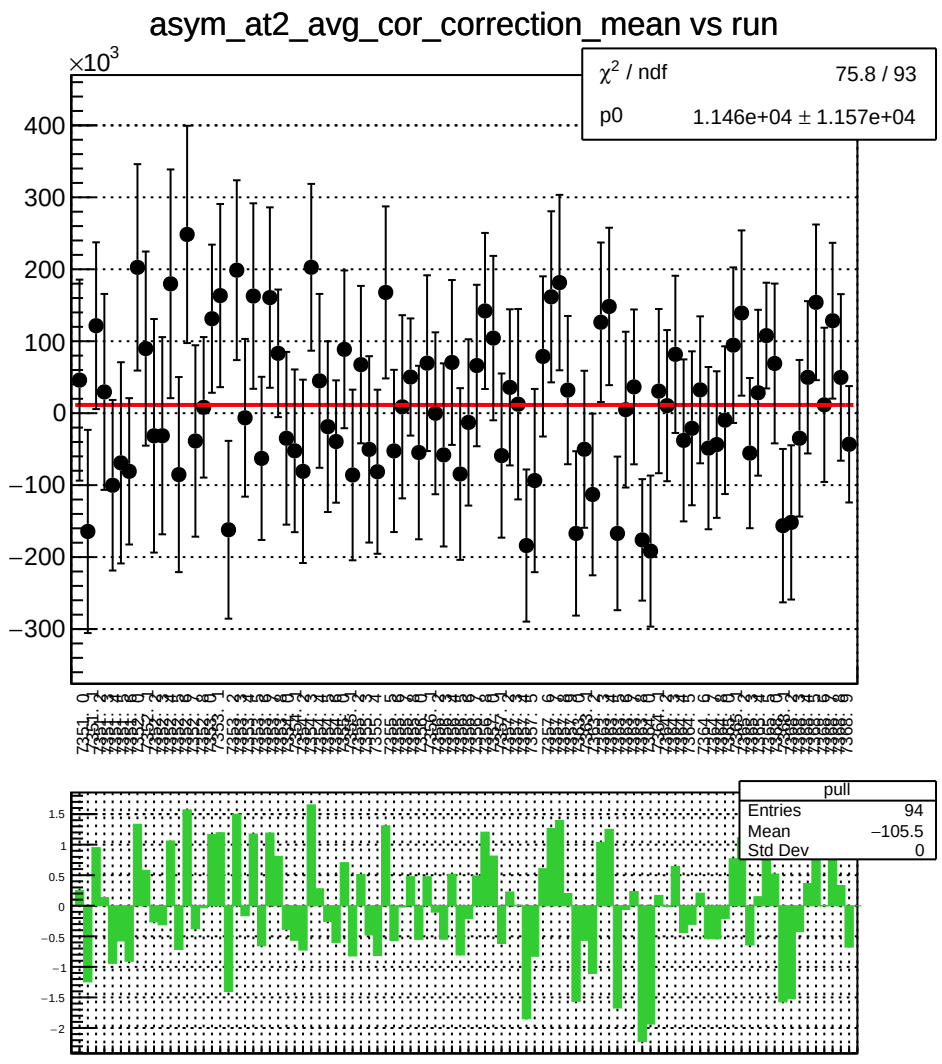

pull1D
Entries 94
Mean 0.01277
Std Dev 0.8979
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

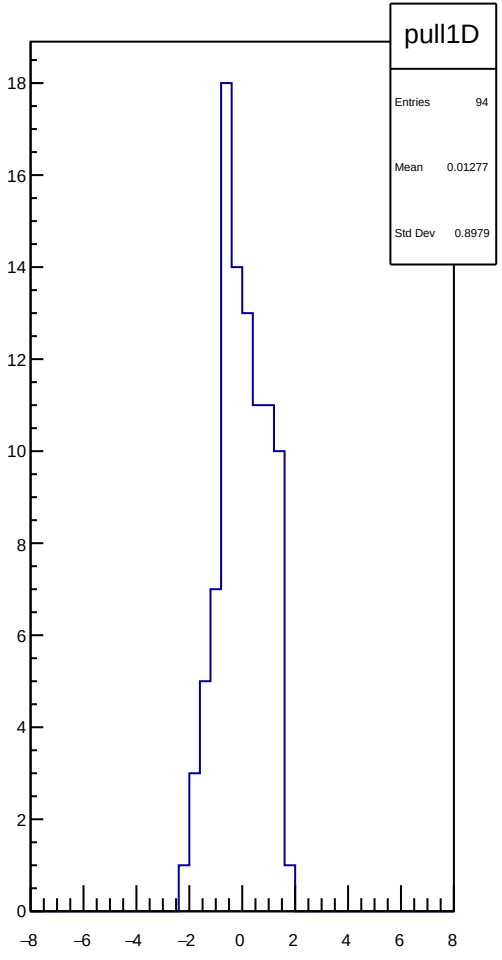

asym_at2_avg_reg_correction_rms vs run
χ² / ndf 1.548e+04 / 93
p0 1.099e+04 ± 8.182
16000
15000
14000
13000
12000
11000
10000

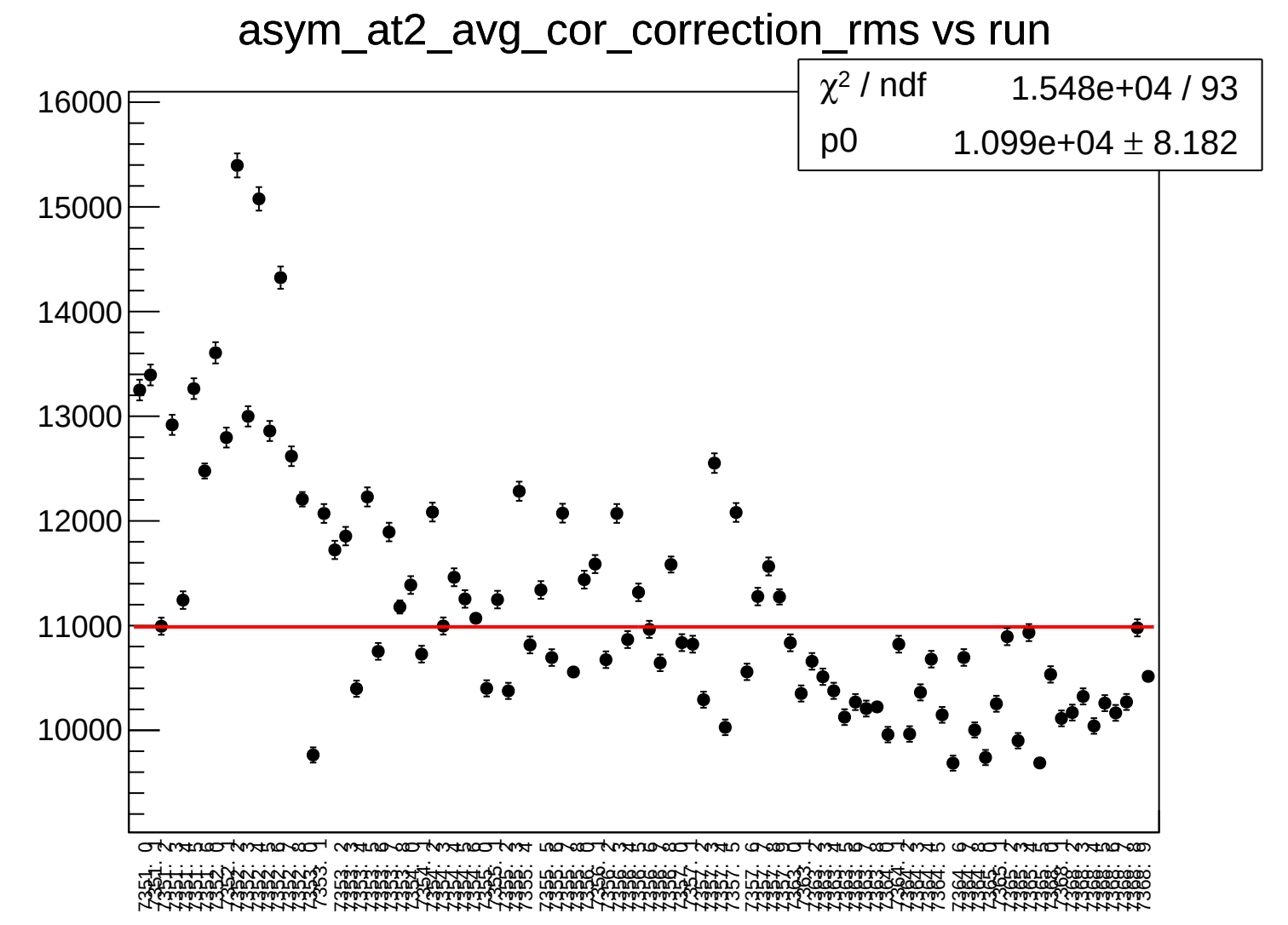

cor_asym_at2_avg_mean vs run
χ² / ndf 105.9 / 93
p0 −3011 ± 1740
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean 1710
Std Dev 0
2
1
0
−1
−2
−3

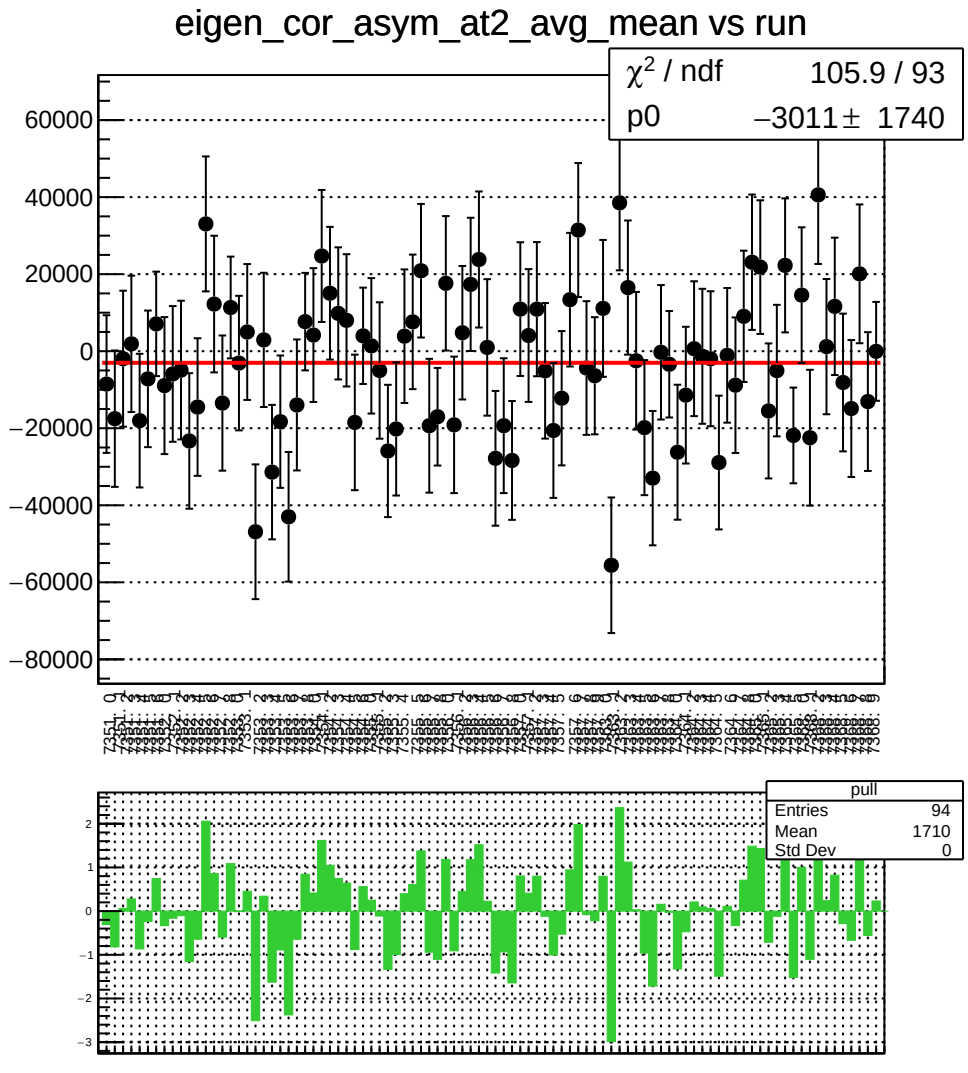

pull1D
Entries 94
Mean 0.001623
Std Dev 1.061
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

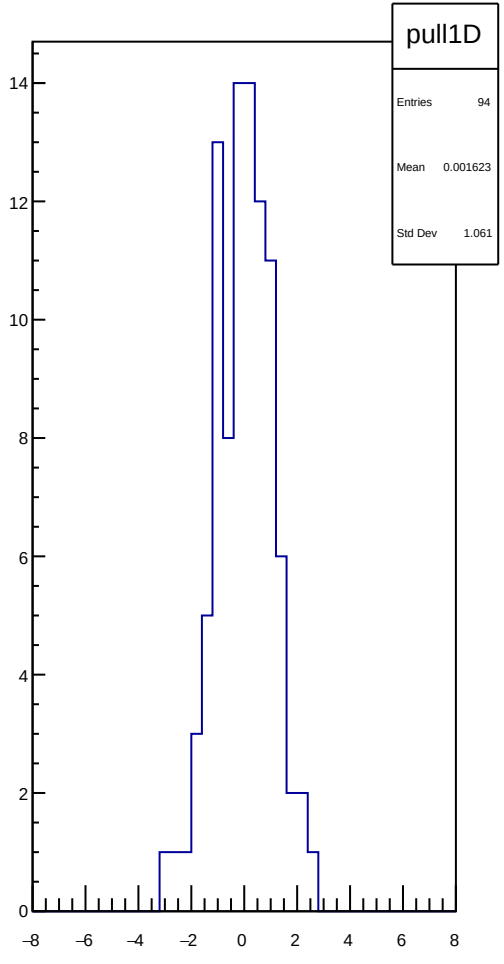

cor_asym_at2_avg_rms vs run
χ^2 / ndf 339.7 / 93
p0 1659 ± 1.23
1720
1700
1680
1660
1640
1620
1600
1580

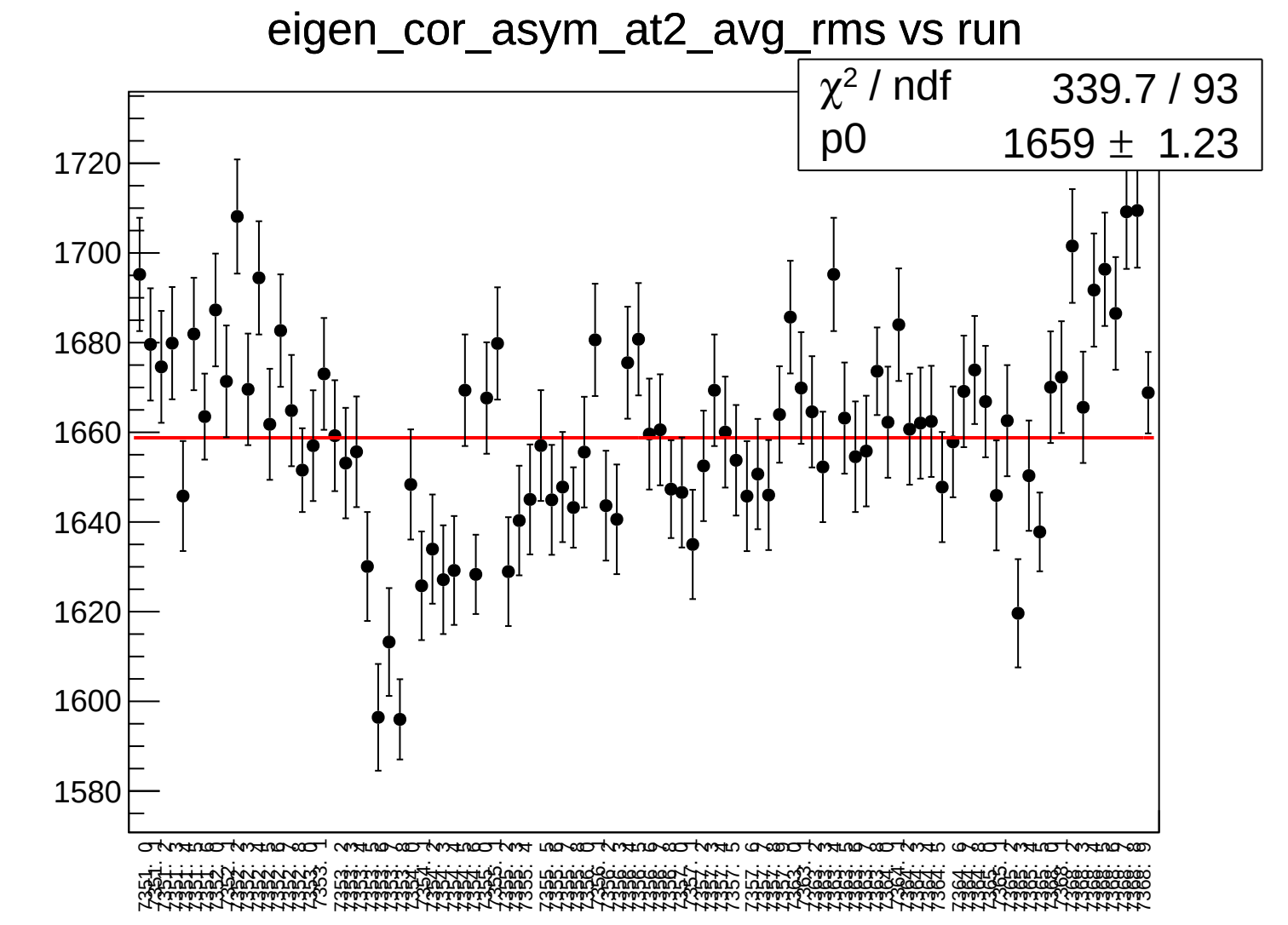

asym_at2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 75.8 / 93
p0 1.146e+04 ± 1.157e+04
pull
Entries 94
Mean −105.5
Std Dev 0

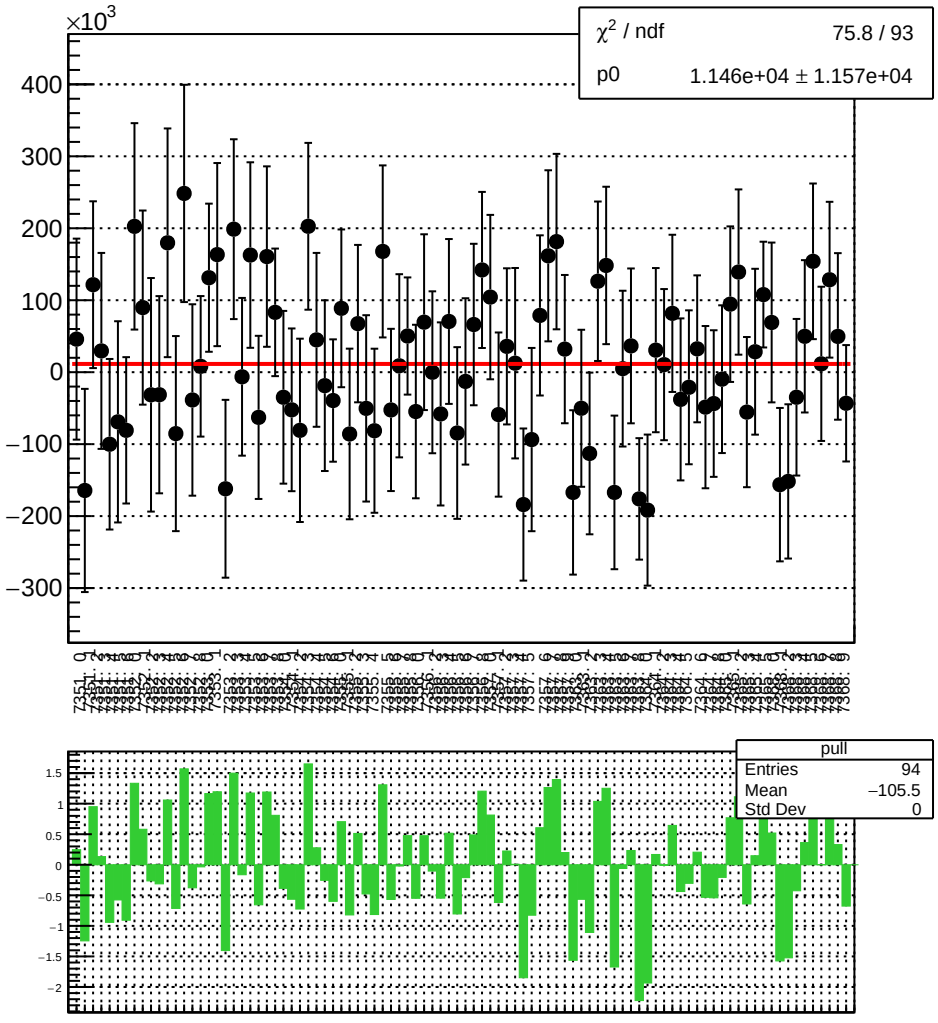

pull1D
Entries 94
Mean 0.01277
Std Dev 0.8979

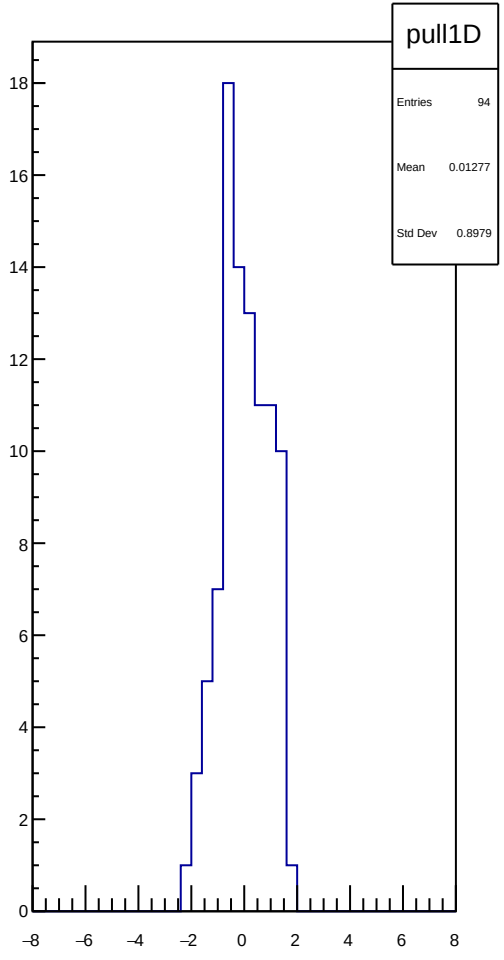

asym_at2_avg_cor_correction_rms vs run
χ² / ndf 1.548e+04 / 93
p0 1.099e+04 ± 8.182
16000
15000
14000
13000
12000
11000
10000

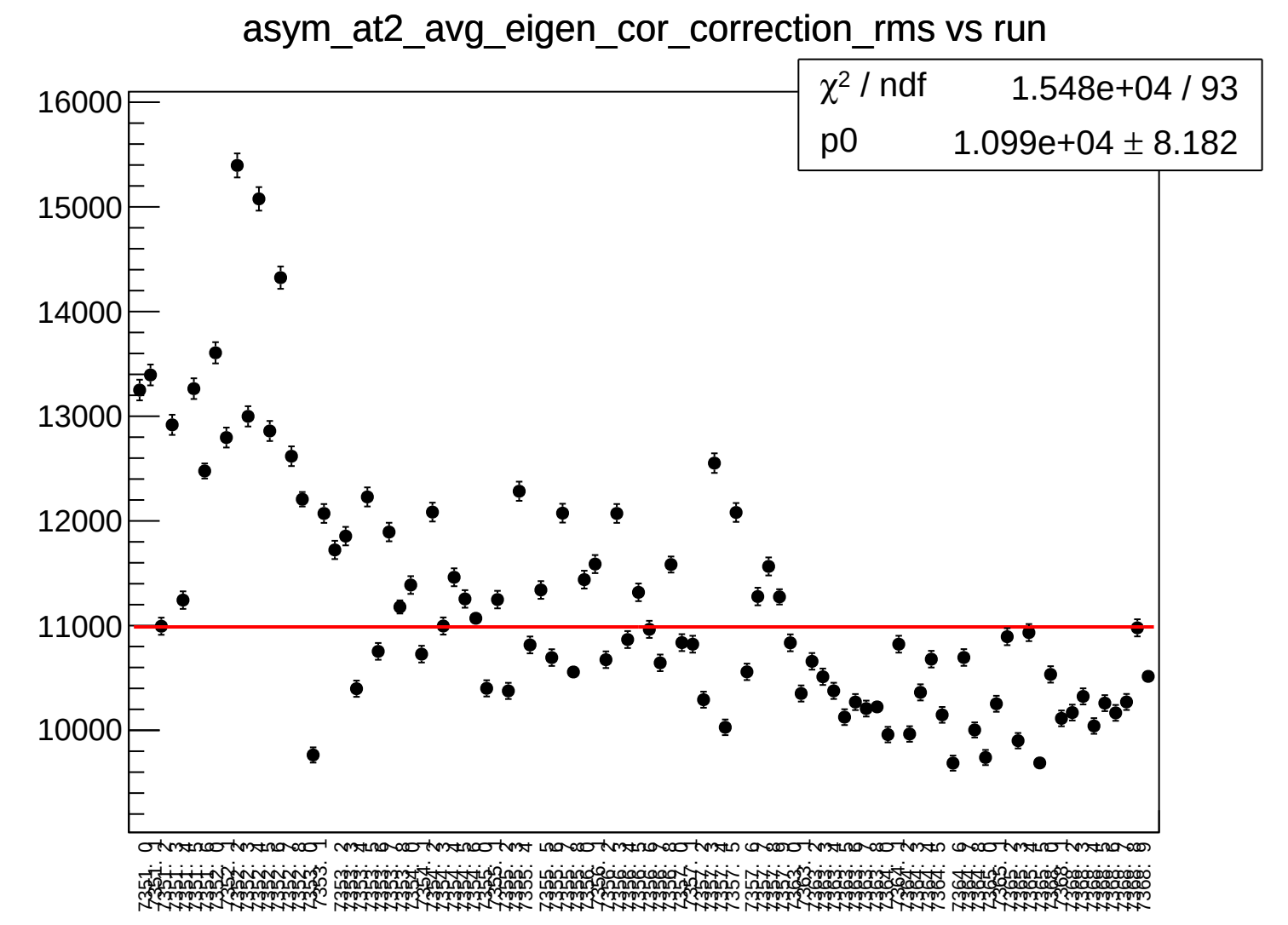

eigen_cor_asym_at2_avg_mean vs run
χ² / ndf 105.9 / 93
p0 −3011 ± 1740
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean 1710
Std Dev 0
2
1
0
−1
−2
−3

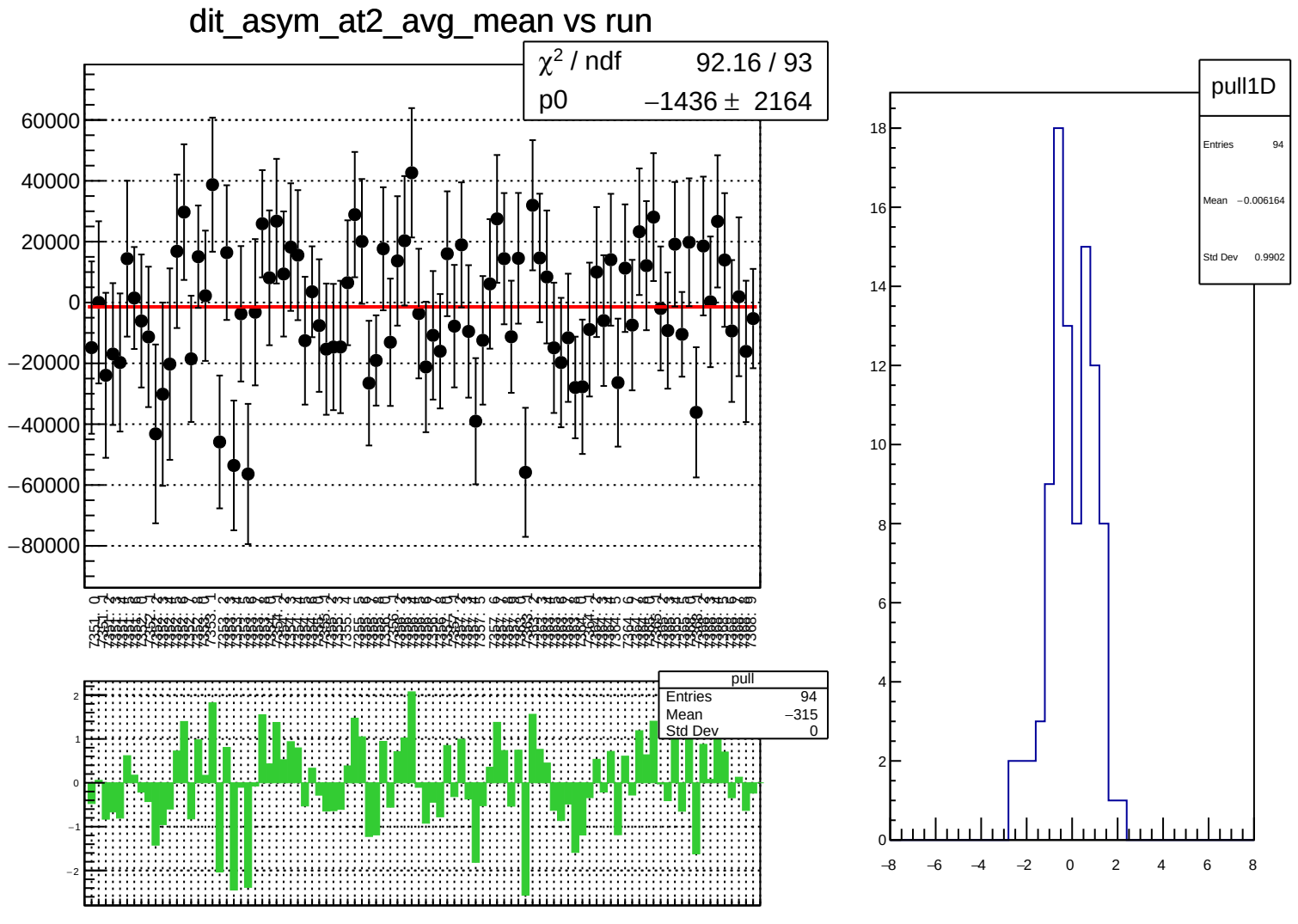

pull1D
Entries 94
Mean 0.001623
Std Dev 1.061
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

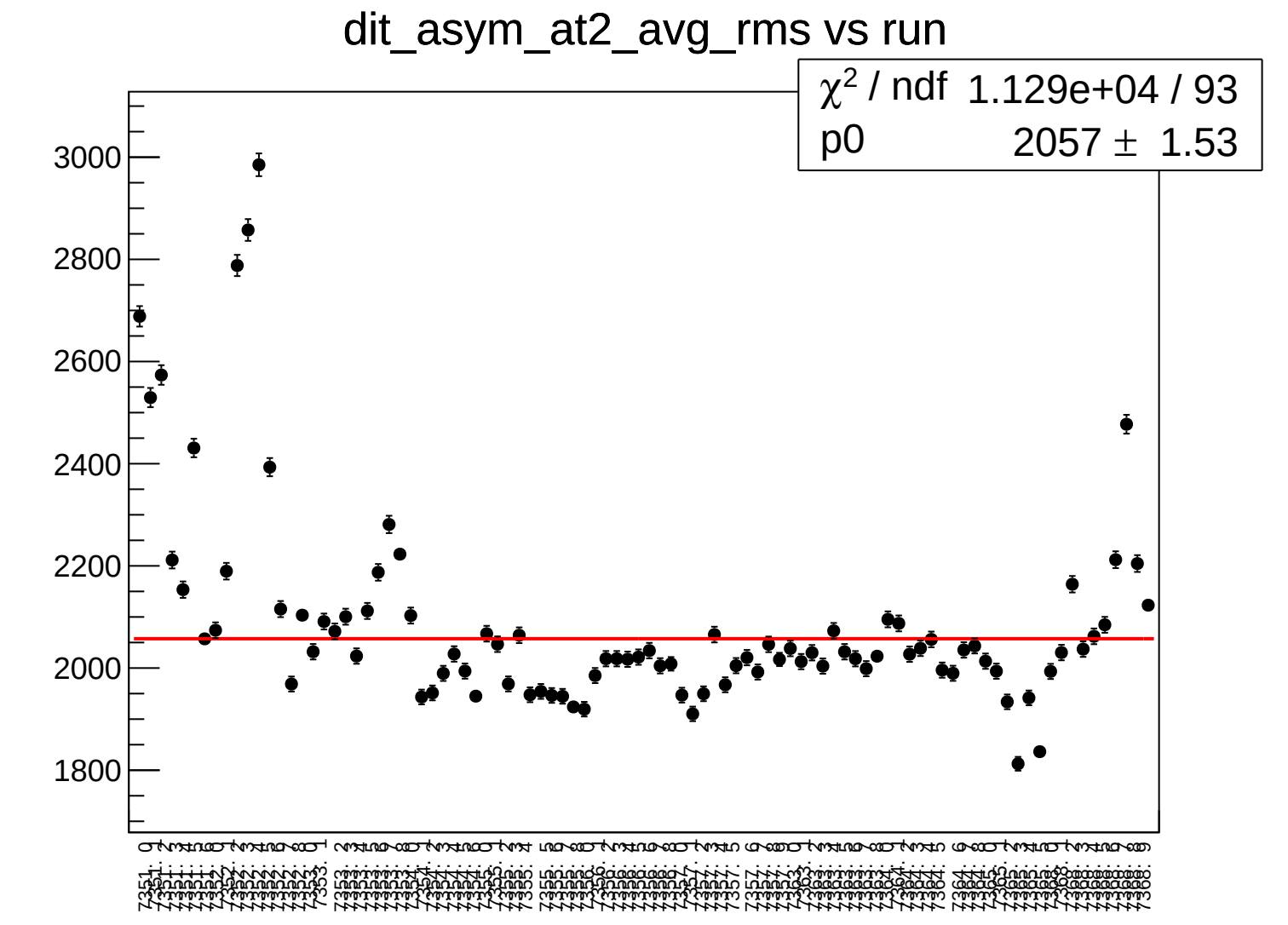

eigen_cor_asym_at2_avg_rms vs run
χ² / ndf 339.7 / 93
p0 1659 ± 1.23
1720
1700
1680
1660
1640
1620
1600
1580

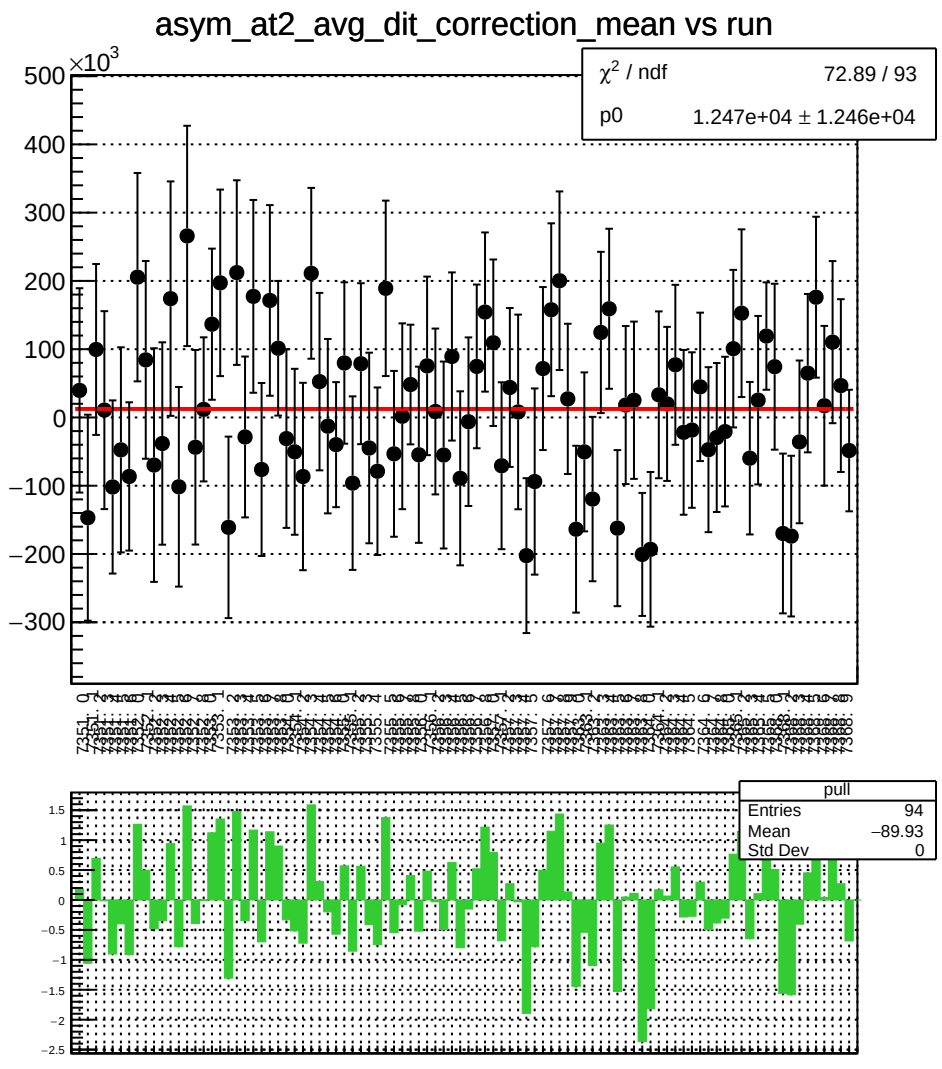

asym_at2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 75.8 / 93
p0 1.146e+04 ± 1.157e+04
400
300
200
100
0
−100
−200
−300
pull
Entries 94
Mean −105.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

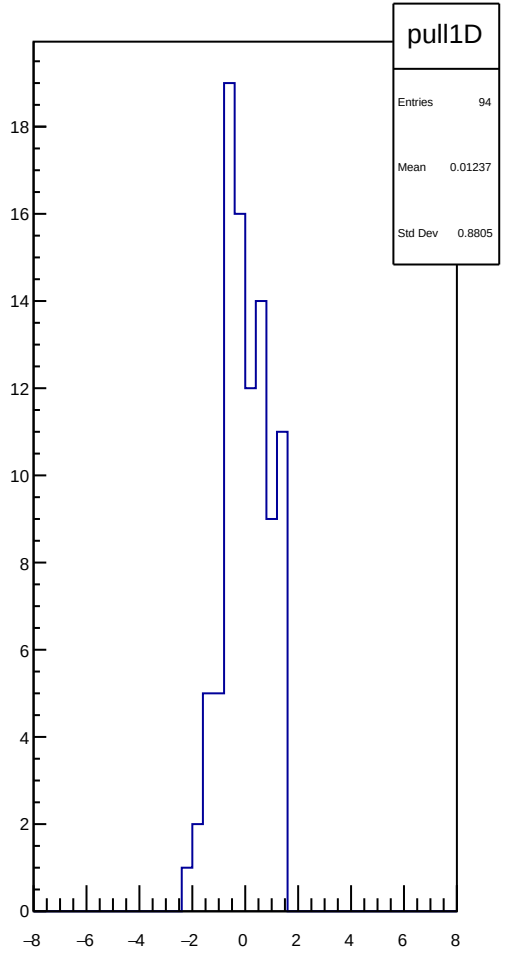

pull1D
Entries 94
Mean 0.01277
Std Dev 0.8979
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

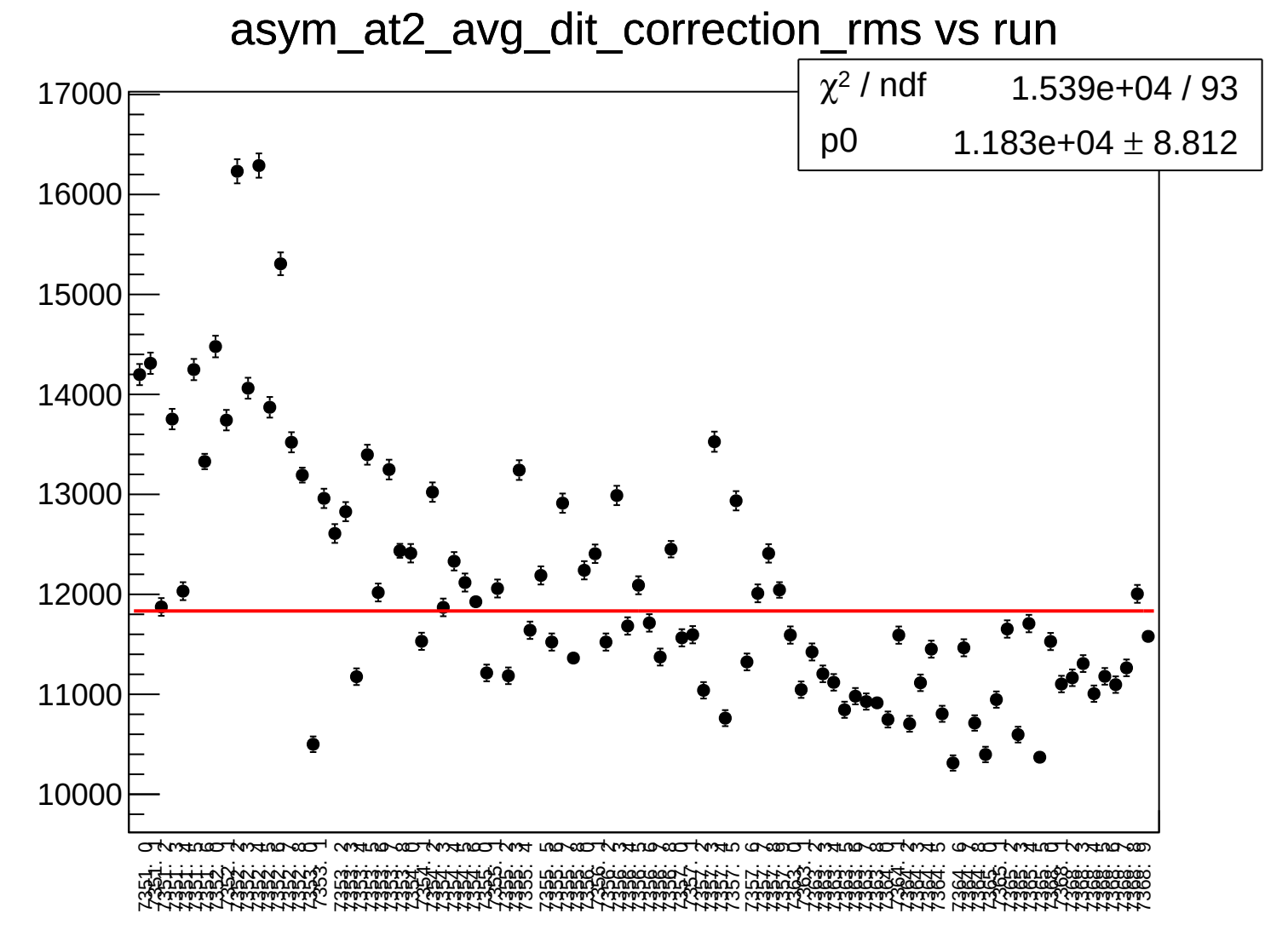

asym_at2_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.548e+04 / 93
p0 1.099e+04 ± 8.182
16000
15000
14000
13000
12000
11000
10000

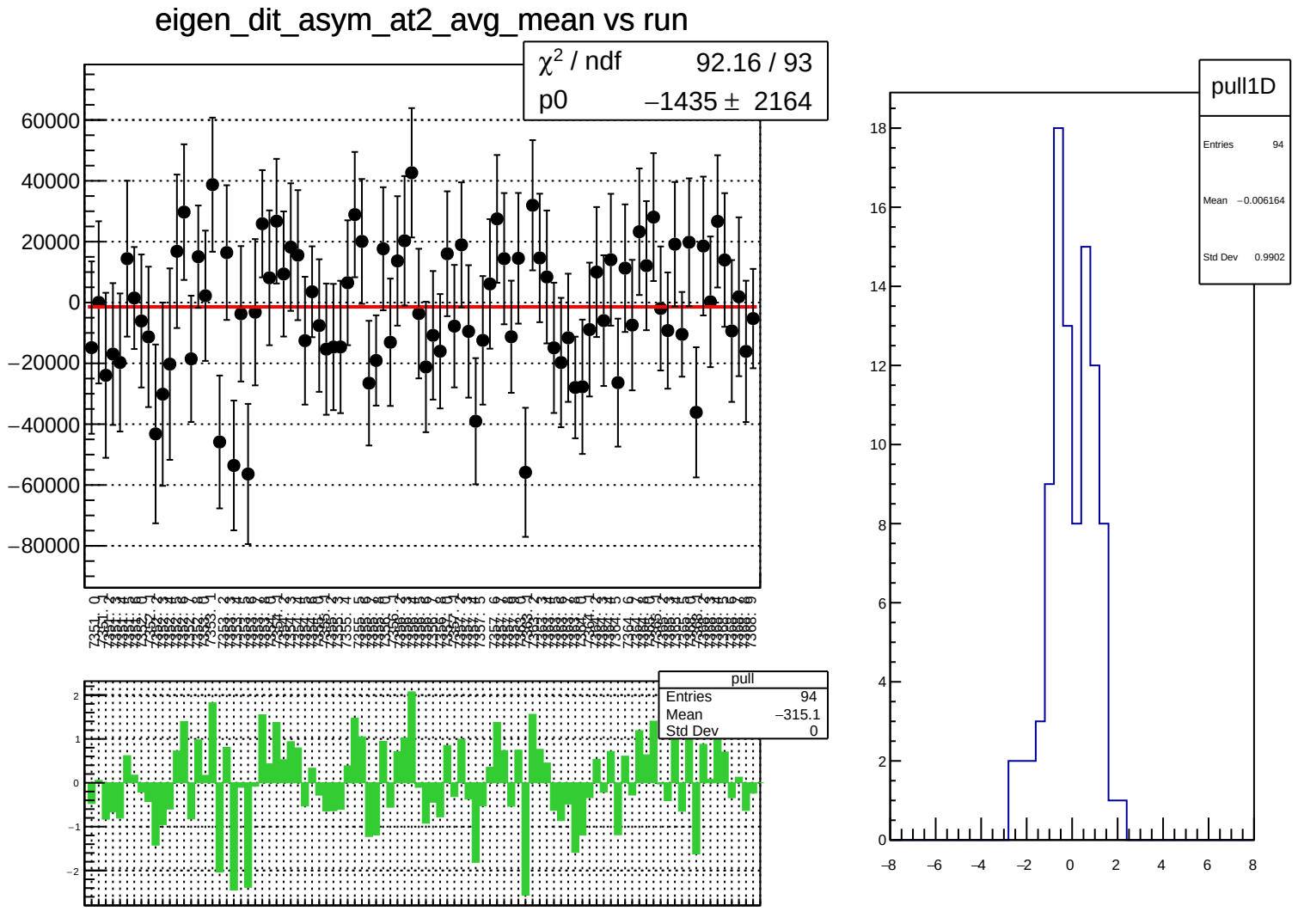

dit_asym_at2_avg_mean vs run
χ² / ndf 92.16 / 93
p0 −1436 ± 2164
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean −315
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.006164
Std Dev 0.9902
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

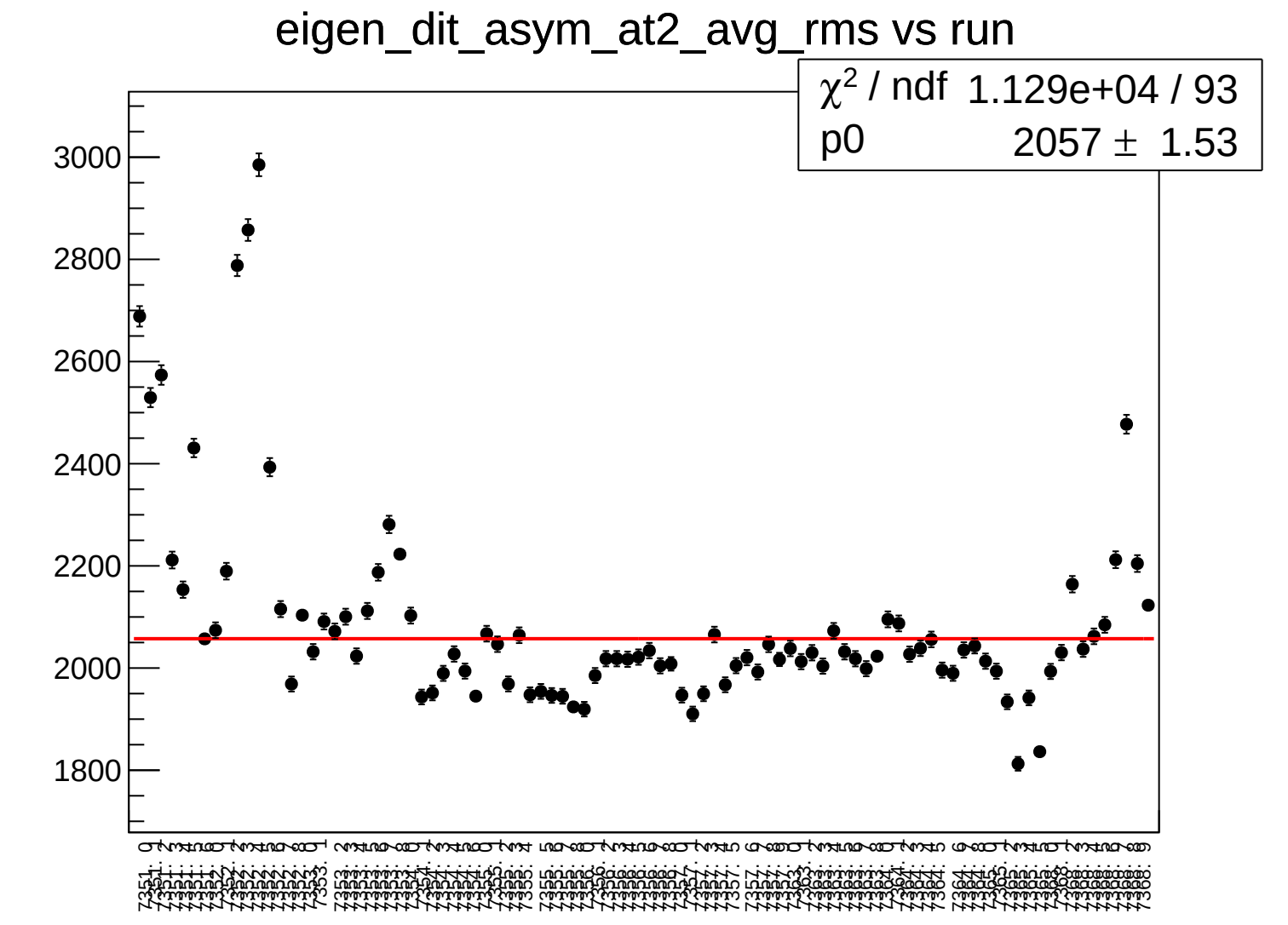

dit_asym_at2_avg_rms vs run
χ² / ndf 1.129e+04 / 93
p0 2057 ± 1.53
3000
2800
2600
2400
2200
2000
1800

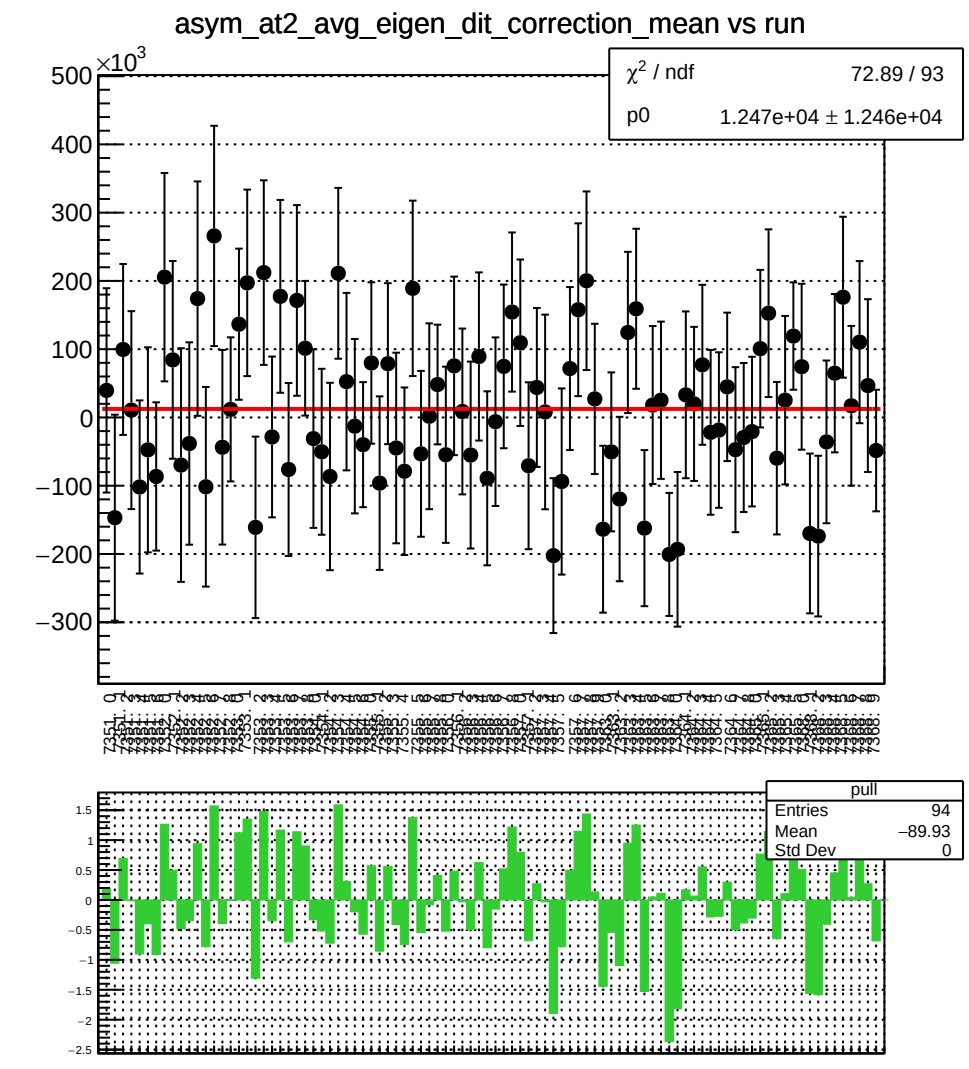

asym_at2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 72.89 / 93
p0 1.247e+04 ± 1.246e+04
pull
Entries 94
Mean −89.93
Std Dev 0

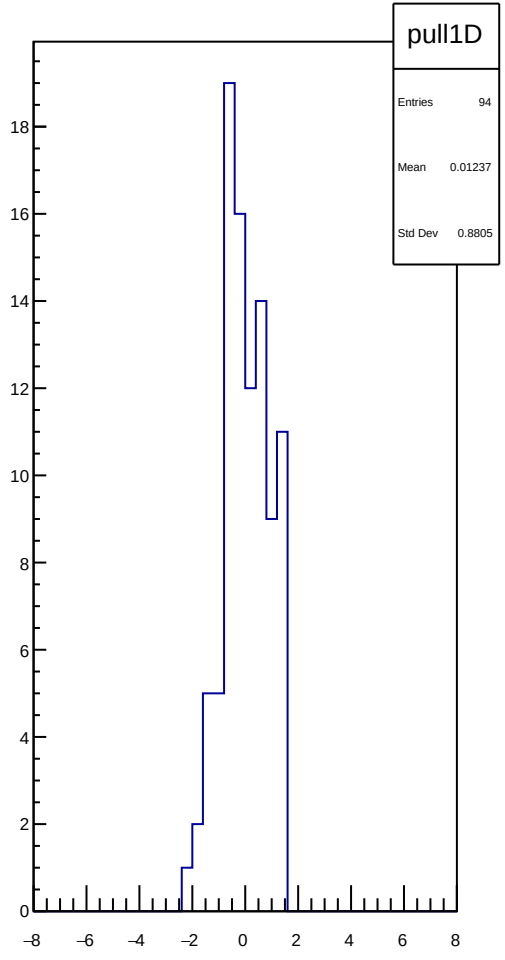

pull1D
Entries 94
Mean 0.01237
Std Dev 0.8805

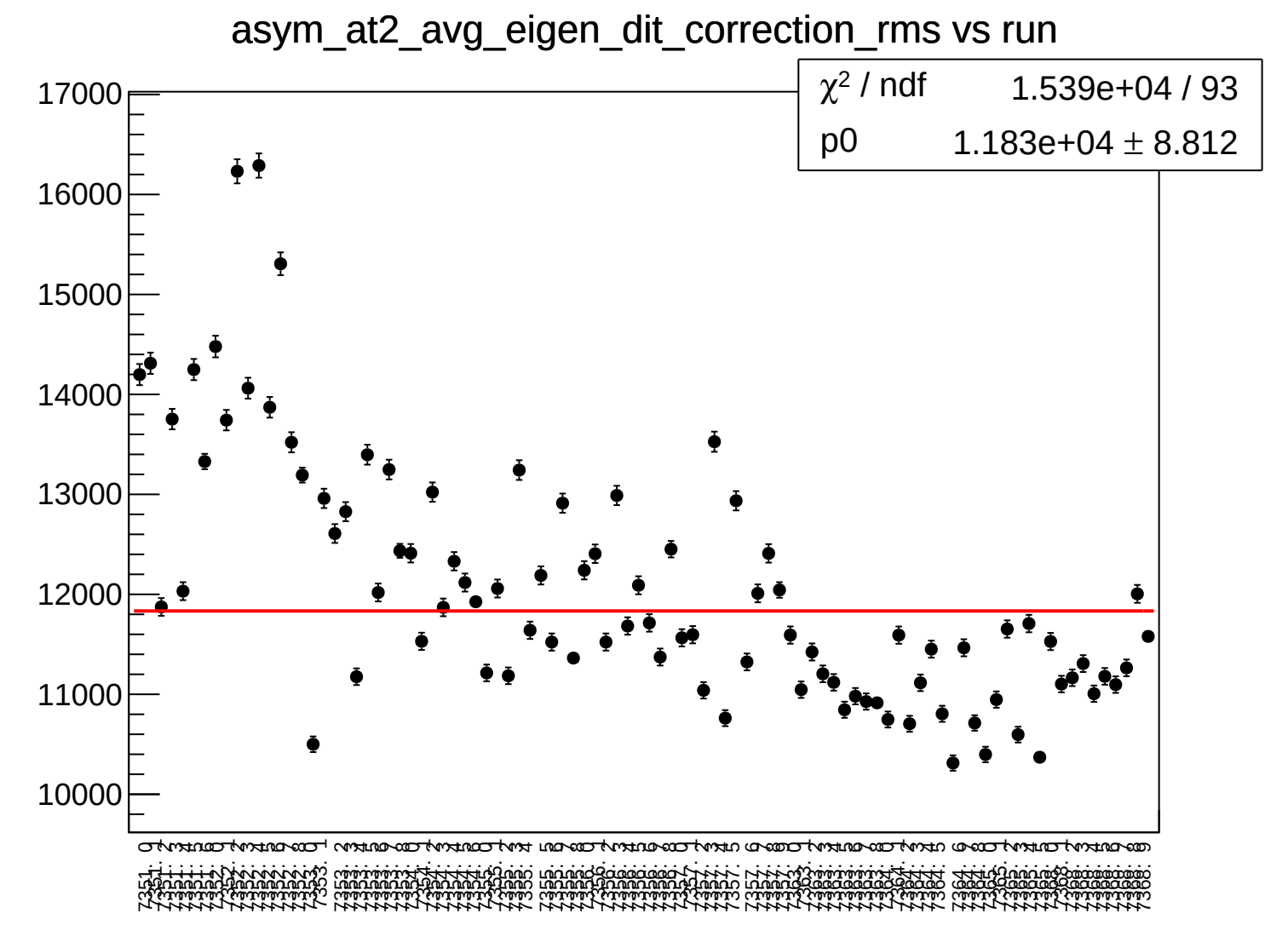

asym_at2_avg_dit_correction_rms vs run
χ² / ndf 1.539e+04 / 93
p0 1.183e+04 ± 8.812
17000
16000
15000
14000
13000
12000
11000
10000

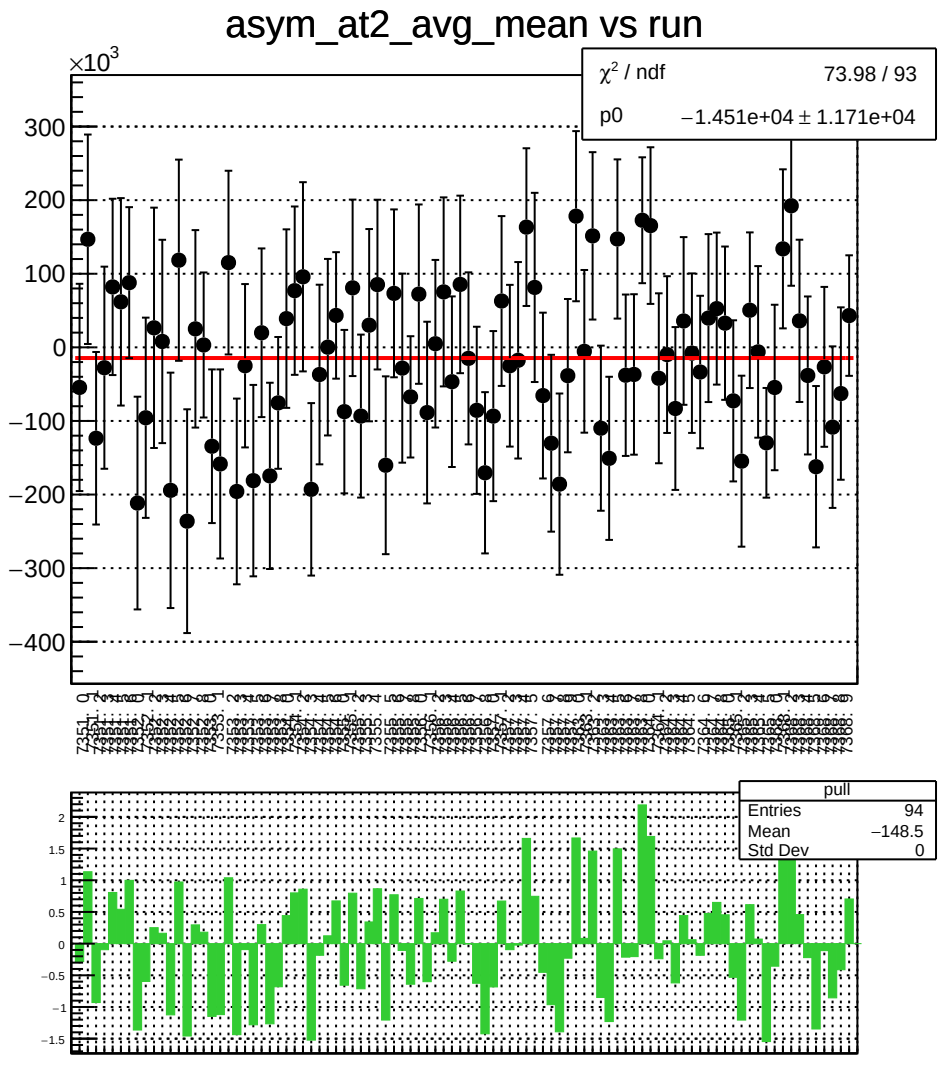

eigen_dit_asym_at2_avg_mean vs run
χ² / ndf 92.16 / 93
p0 −1435 ± 2164
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean −315.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.006164
Std Dev 0.9902
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

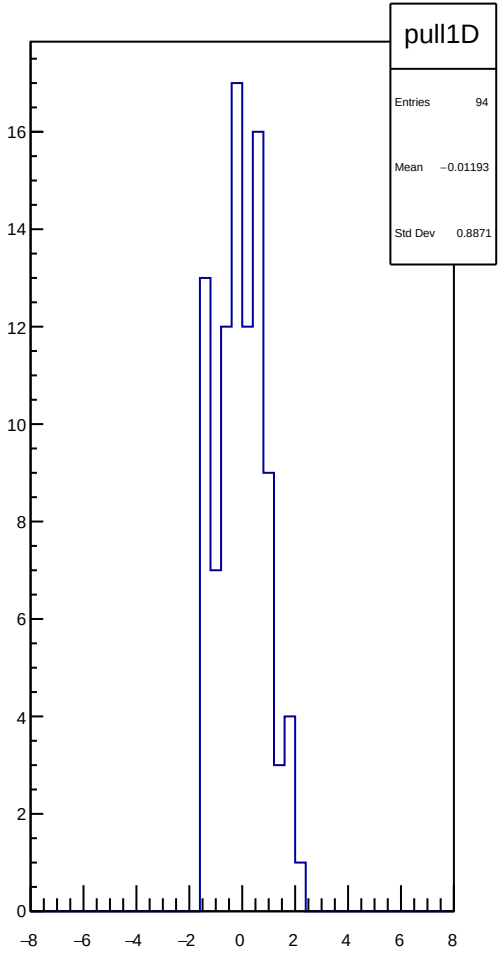

eigen_dit_asym_at2_avg_rms vs run
χ² / ndf 1.129e+04 / 93
p0 2057 ± 1.53
3000
2800
2600
2400
2200
2000
1800

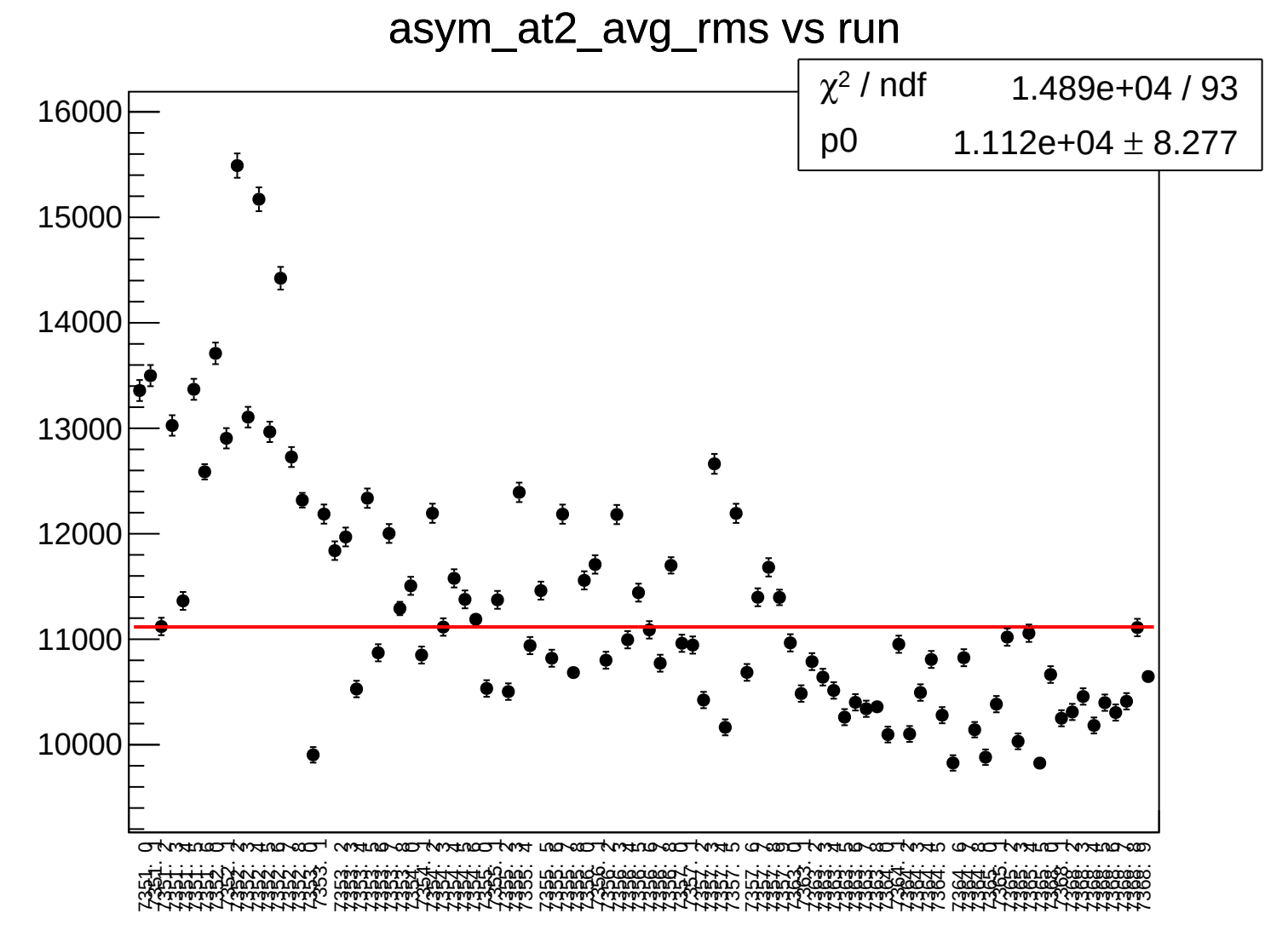

asym_at2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 72.89 / 93
p0 1.247e+04 ± 1.246e+04
pull
Entries 94
Mean −89.93
Std Dev 0

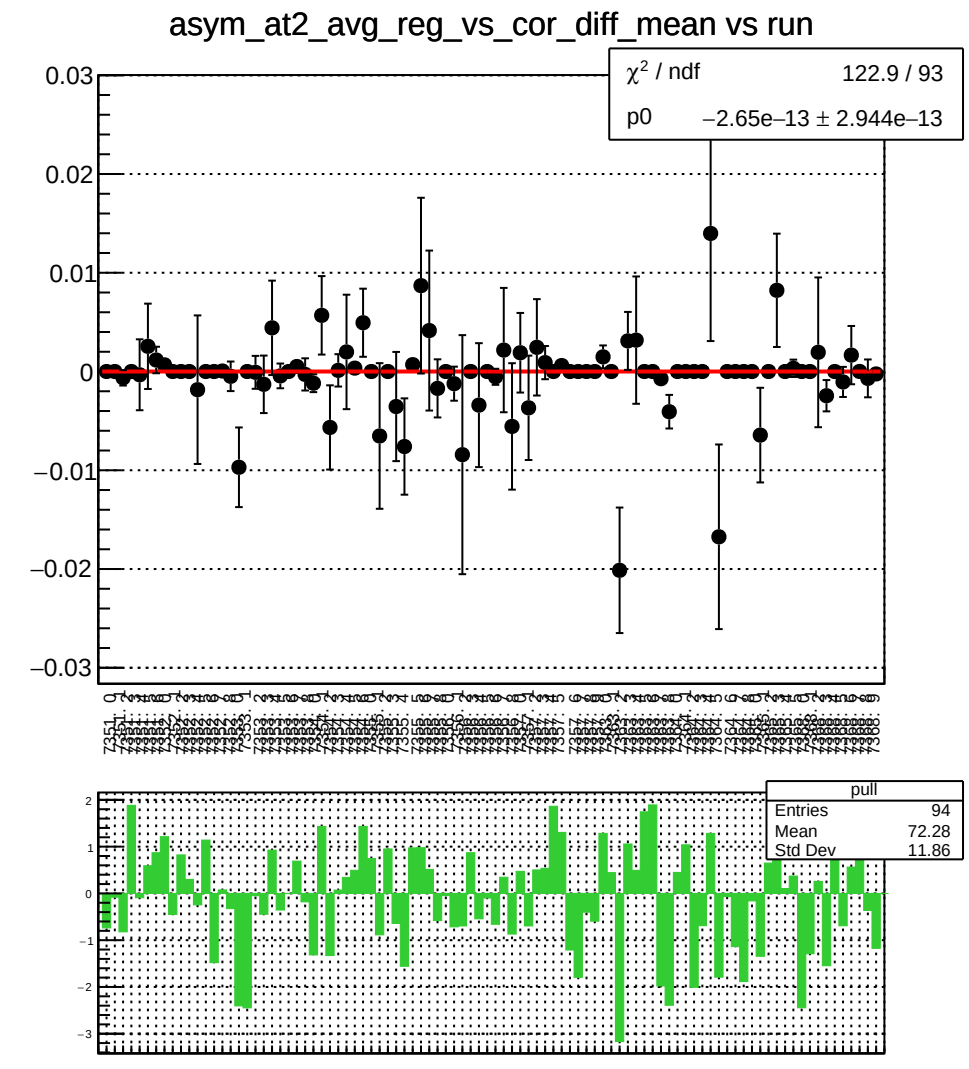

pull1D
Entries 94
Mean 0.01237
Std Dev 0.8805

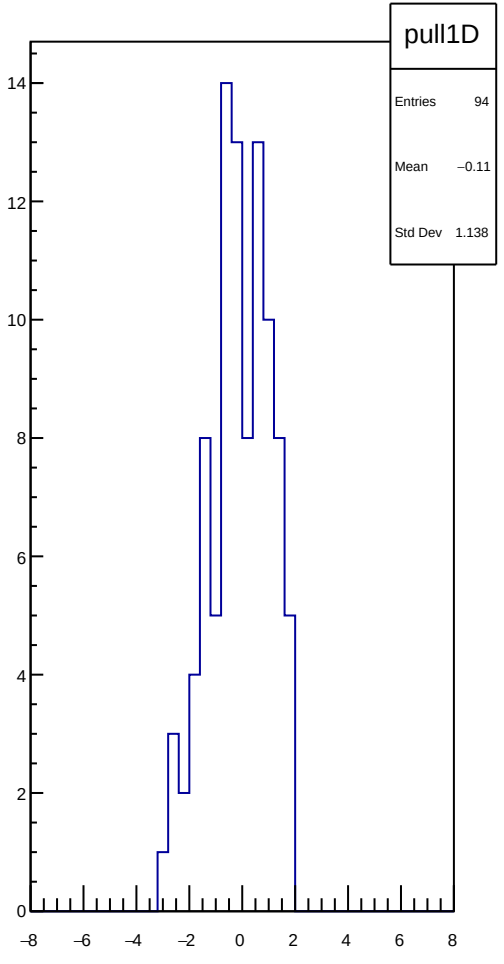

asym_at2_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.539e+04 / 93
p0 1.183e+04 ± 8.812
17000
16000
15000
14000
13000
12000
11000
10000

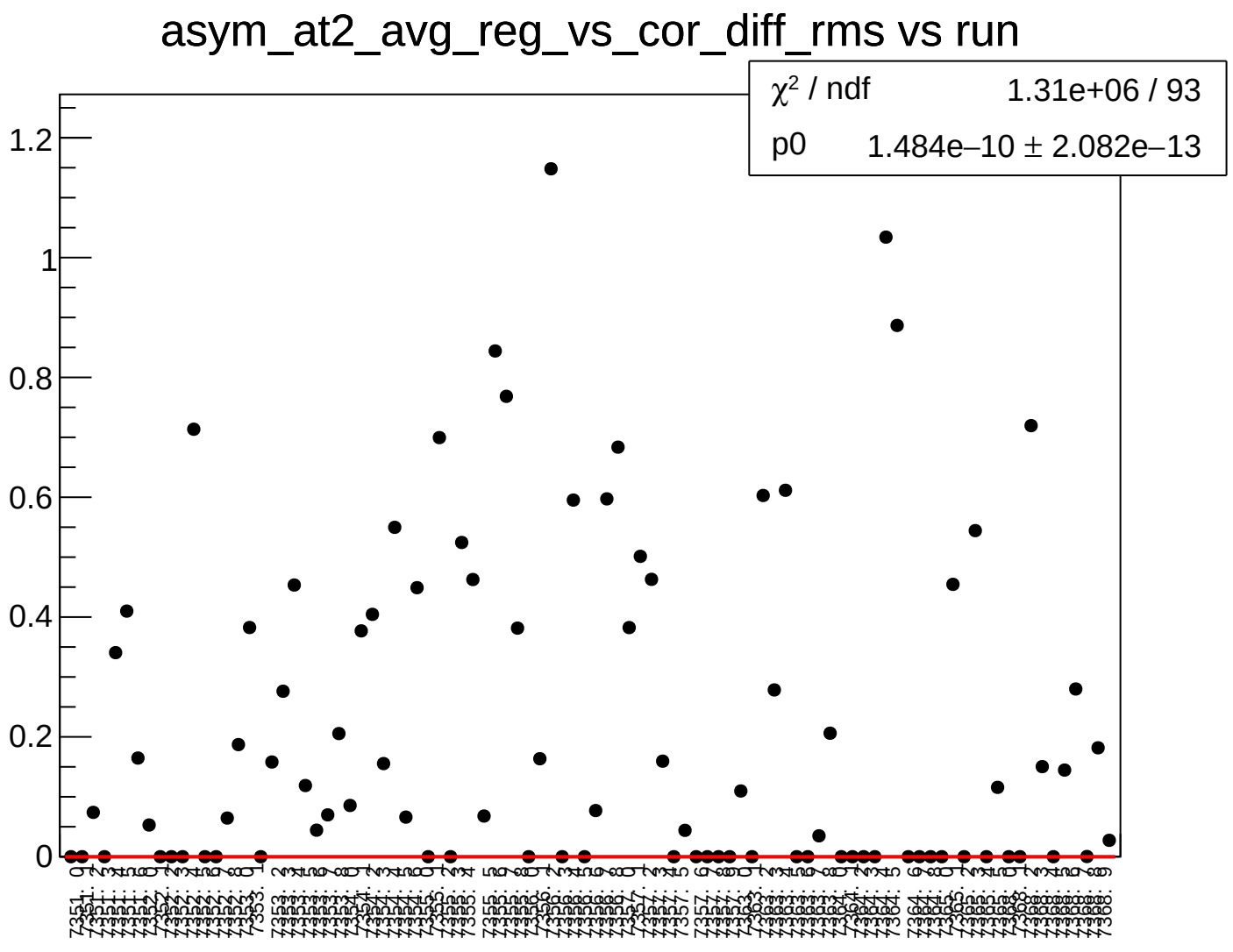

asym_at2_avg_mean vs run
×10^3
χ² / ndf 73.98 / 93
p0 −1.451e+04 ± 1.171e+04
300
200
100
0
−100
−200
−300
−400
pull
Entries 94
Mean −148.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

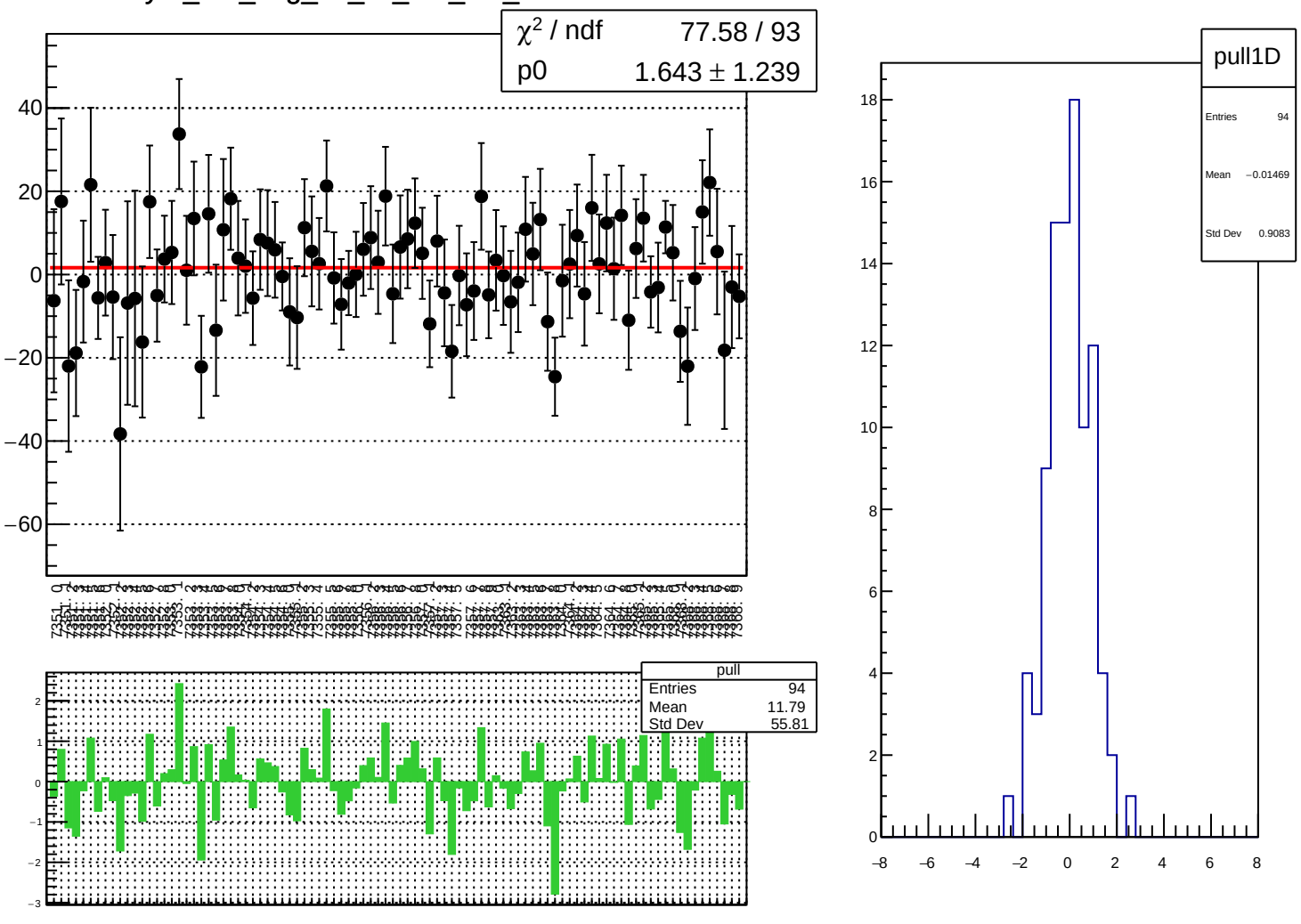

pull1D
Entries 94
Mean −0.01193
Std Dev 0.8871
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

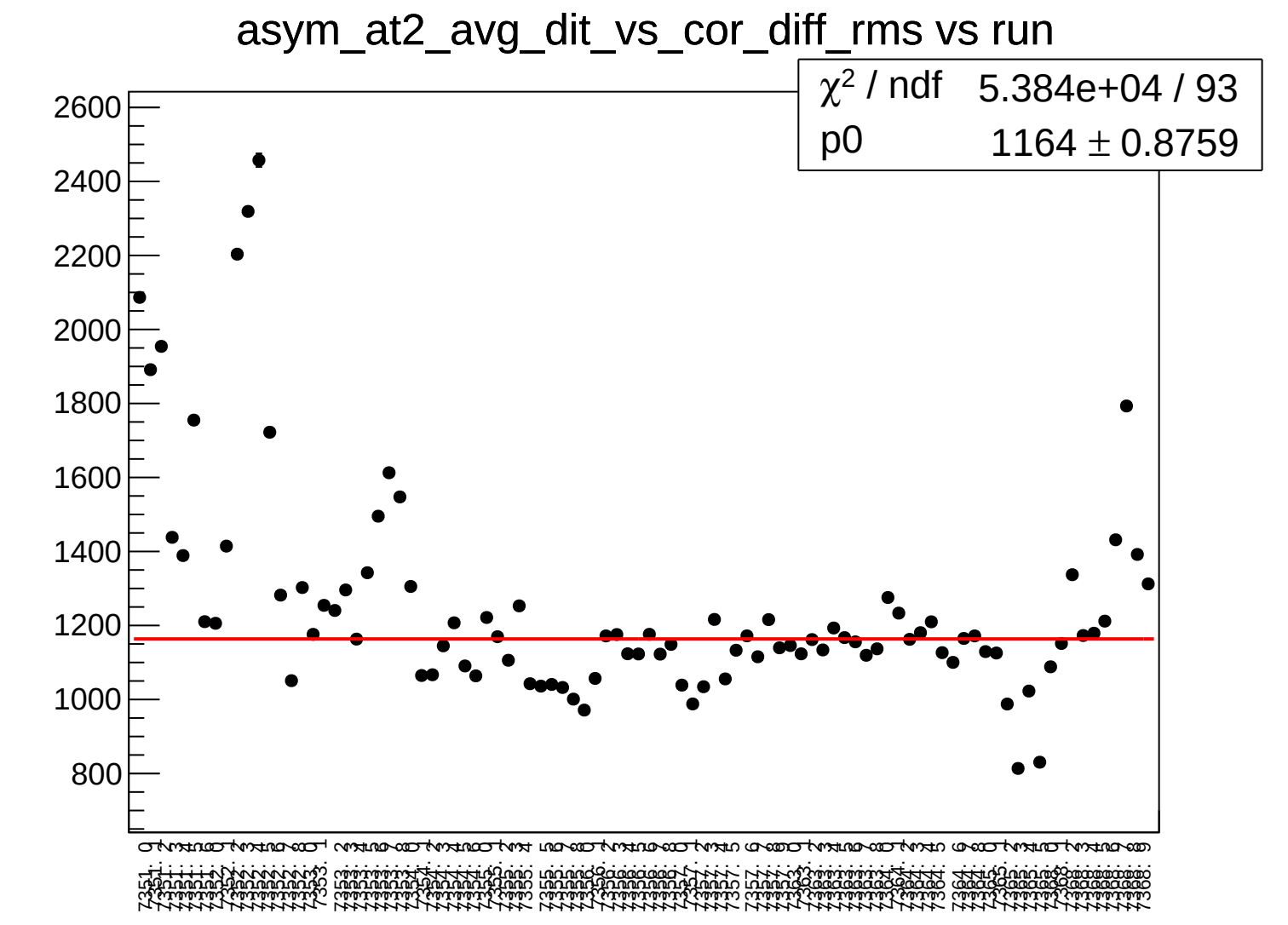

asym_at2_avg_rms vs run
χ² / ndf 1.489e+04 / 93
p0 1.112e+04 ± 8.277
16000
15000
14000
13000
12000
11000
10000

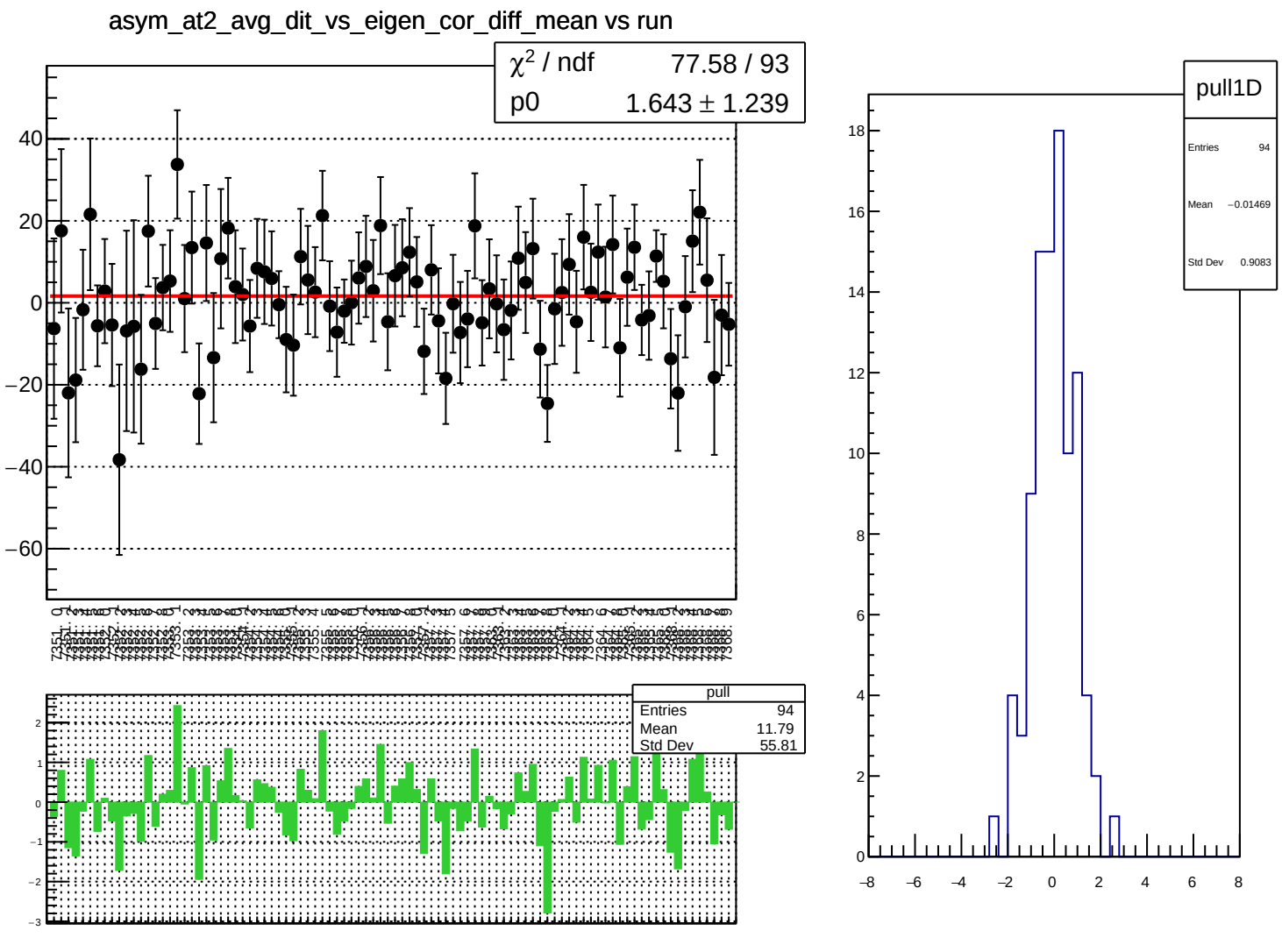

asym_at2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 122.9 / 93
p0 −2.65e−13 ± 2.944e−13
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 94
Mean 72.28
Std Dev 11.86
2
1
0
−1
−2
−3

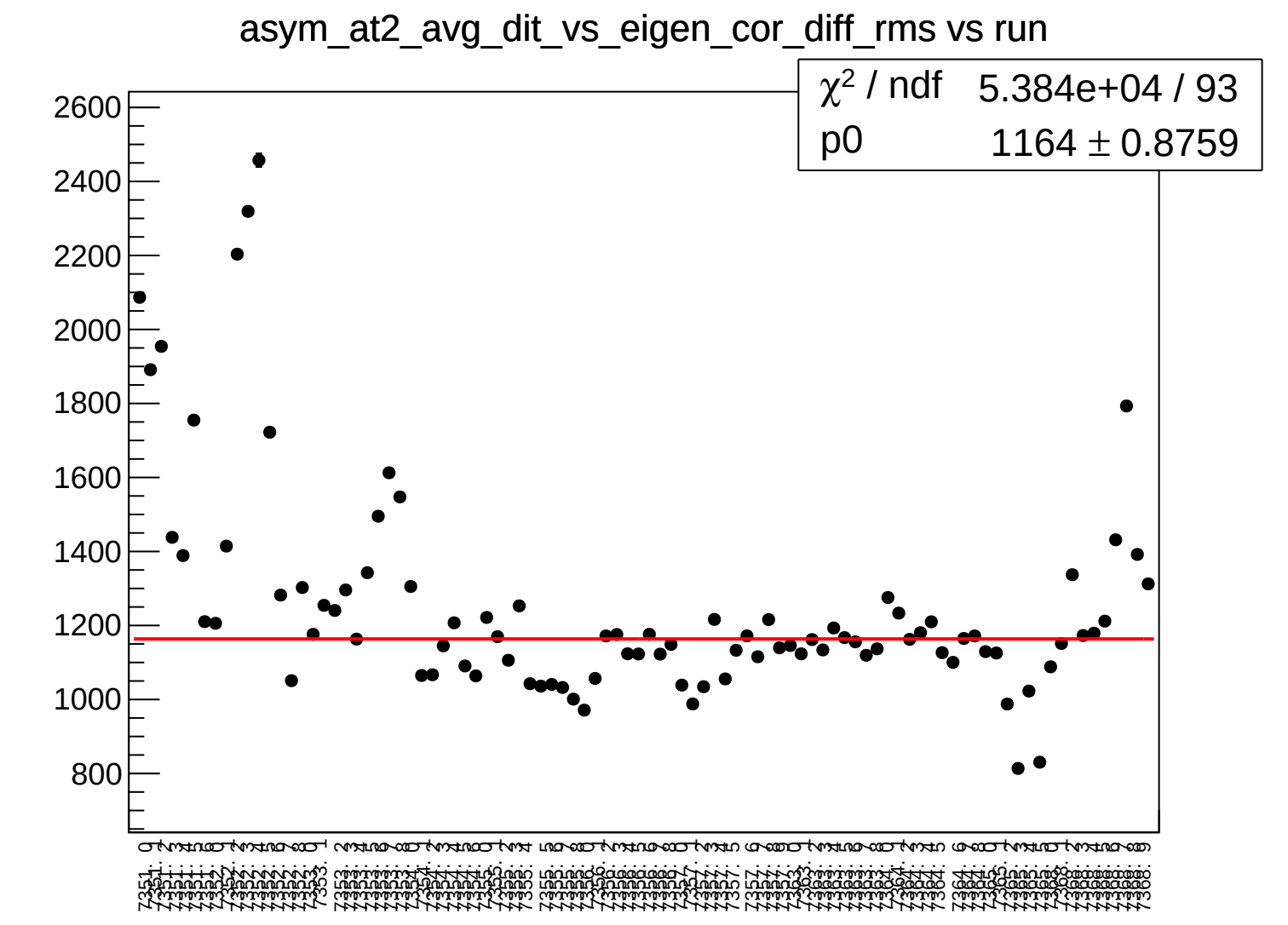

pull1D
Entries 94
Mean −0.11
Std Dev 1.138
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

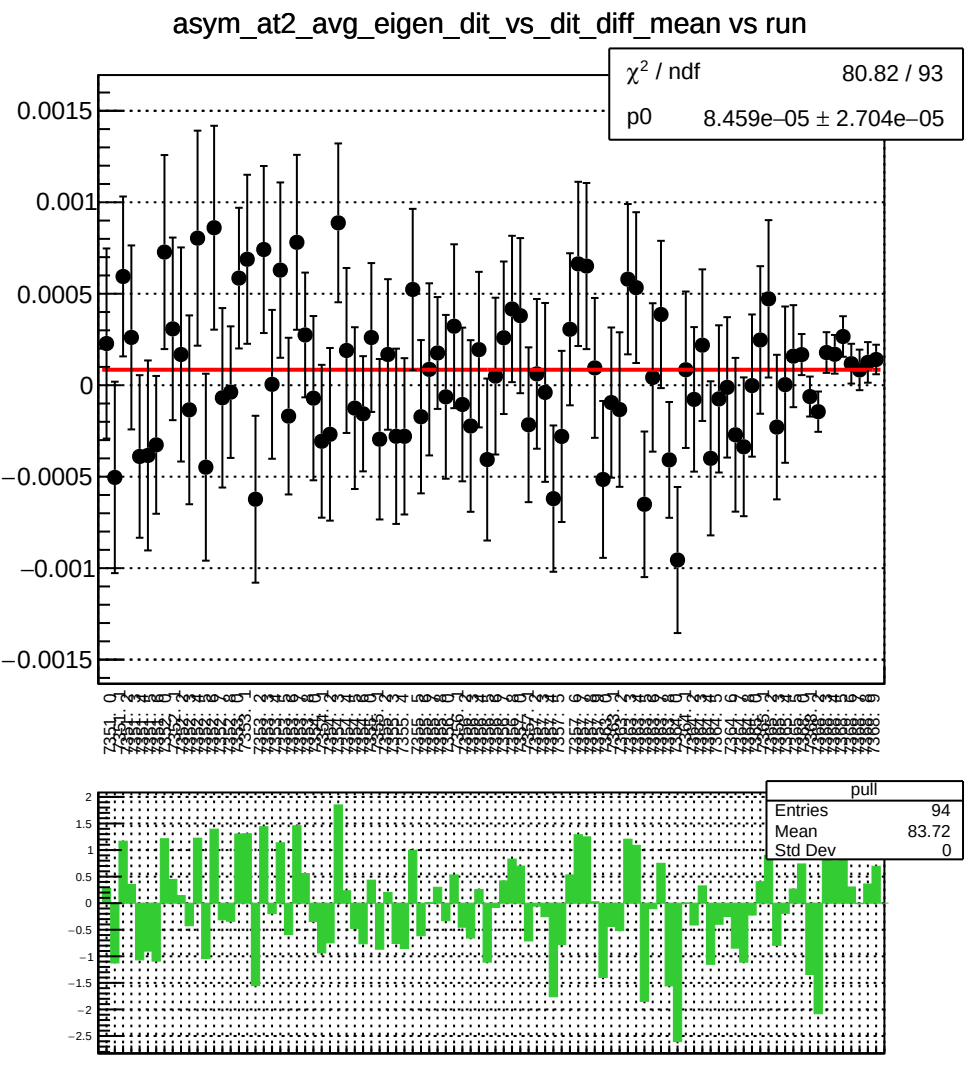

asym_at2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.31e+06 / 93
p0 1.484e−10 ± 2.082e−13
1.2
1
0.8
0.6
0.4
0.2
0

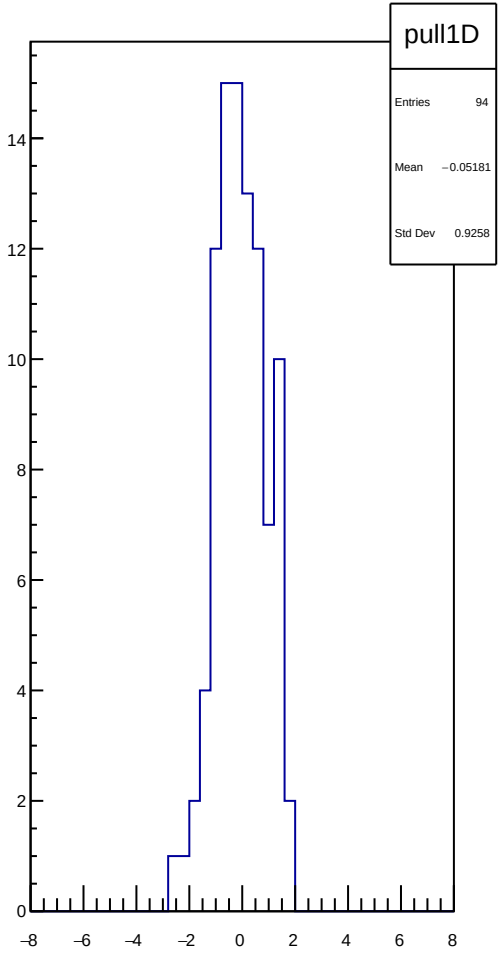

asym_at2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 77.58 / 93
p0 1.643 ± 1.239
pull
Entries 94
Mean 11.79
Std Dev 55.81
pull1D
Entries 94
Mean −0.01469
Std Dev 0.9083

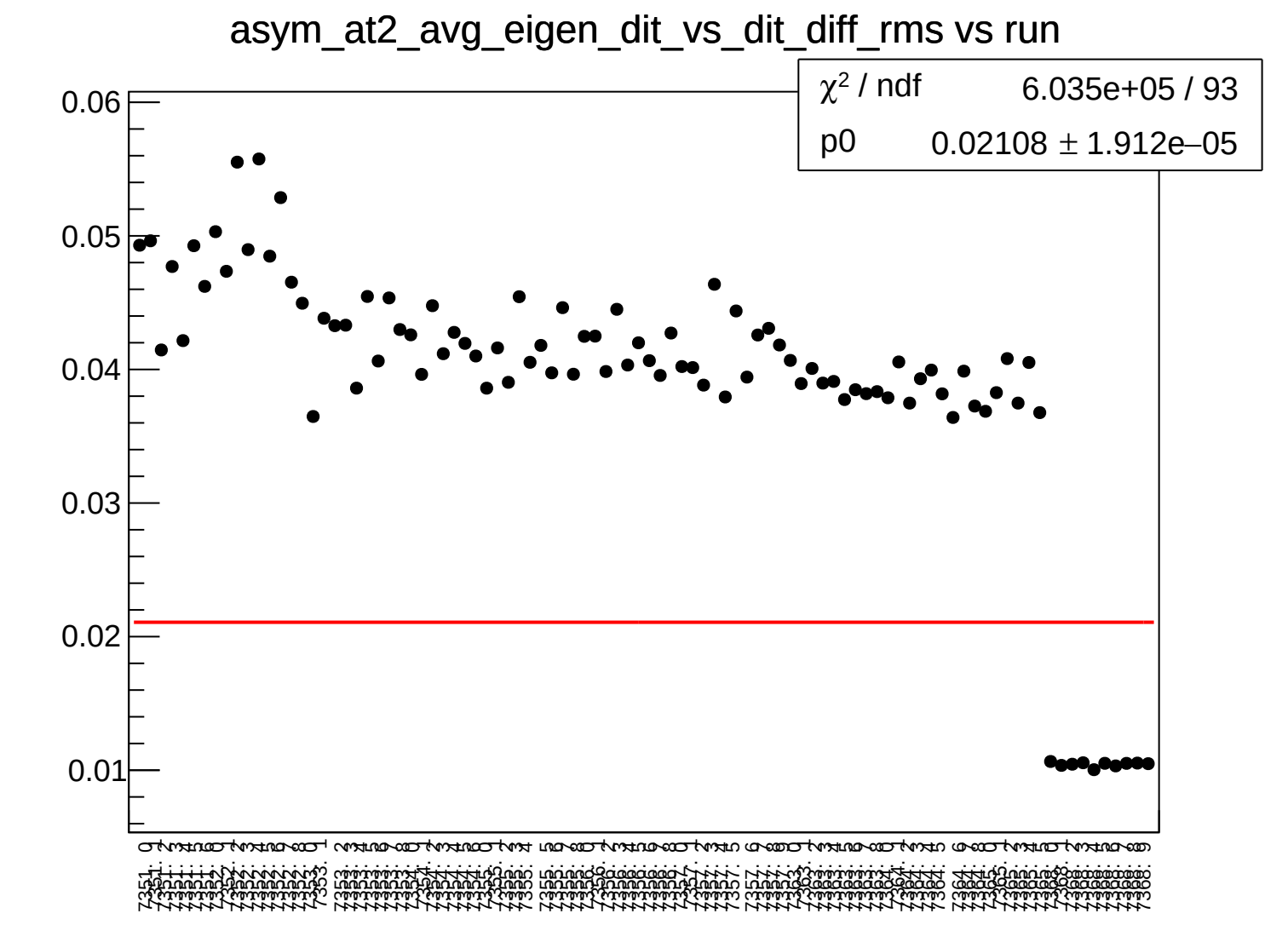

asym_at2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.384e+04 / 93
p0 1164 ± 0.8759
2600
2400
2200
2000
1800
1600
1400
1200
1000
800

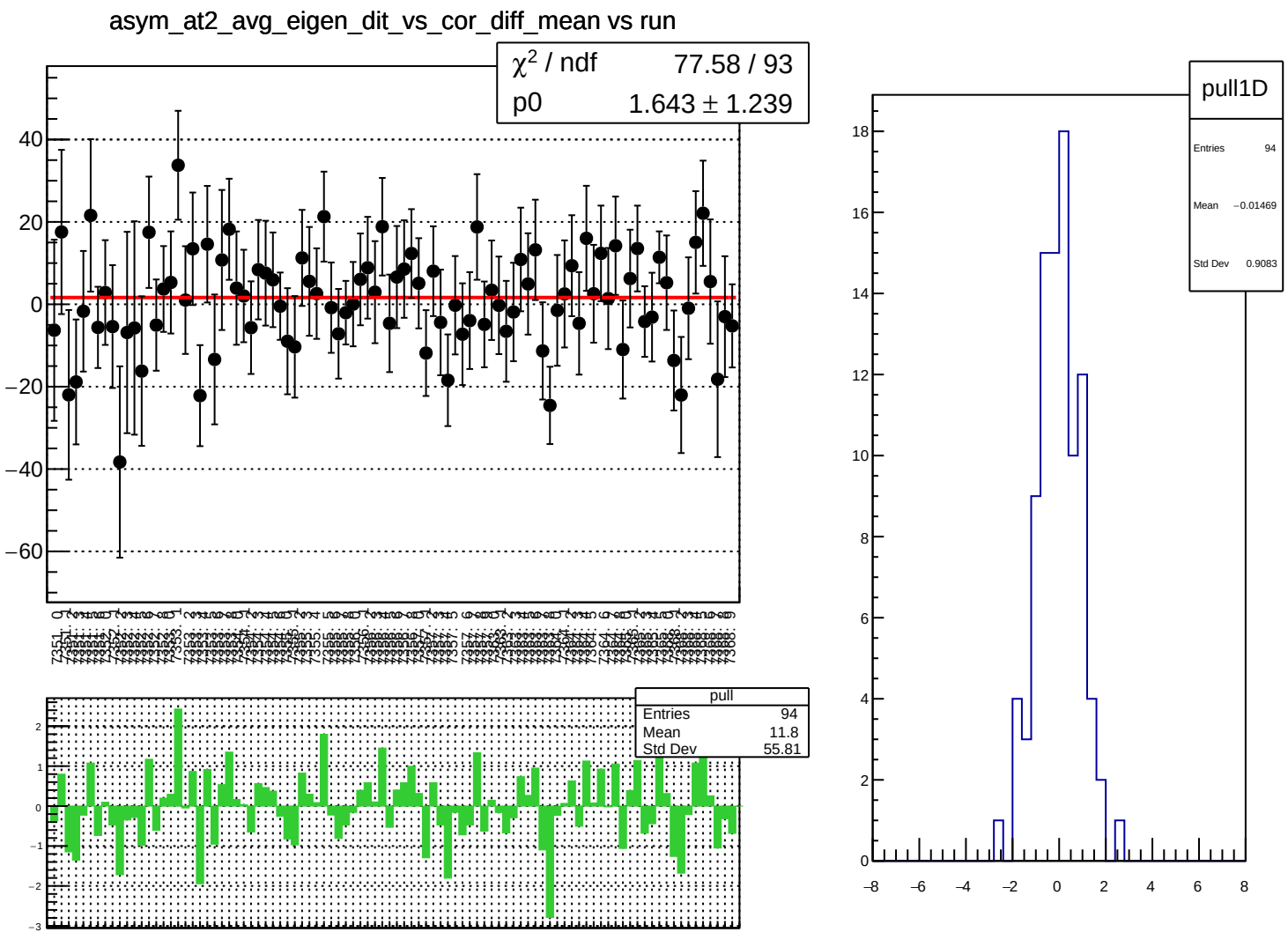

asym_at2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.58 / 93
p0 1.643 ± 1.239
pull
Entries 94
Mean 11.79
Std Dev 55.81
pull1D
Entries 94
Mean −0.01469
Std Dev 0.9083

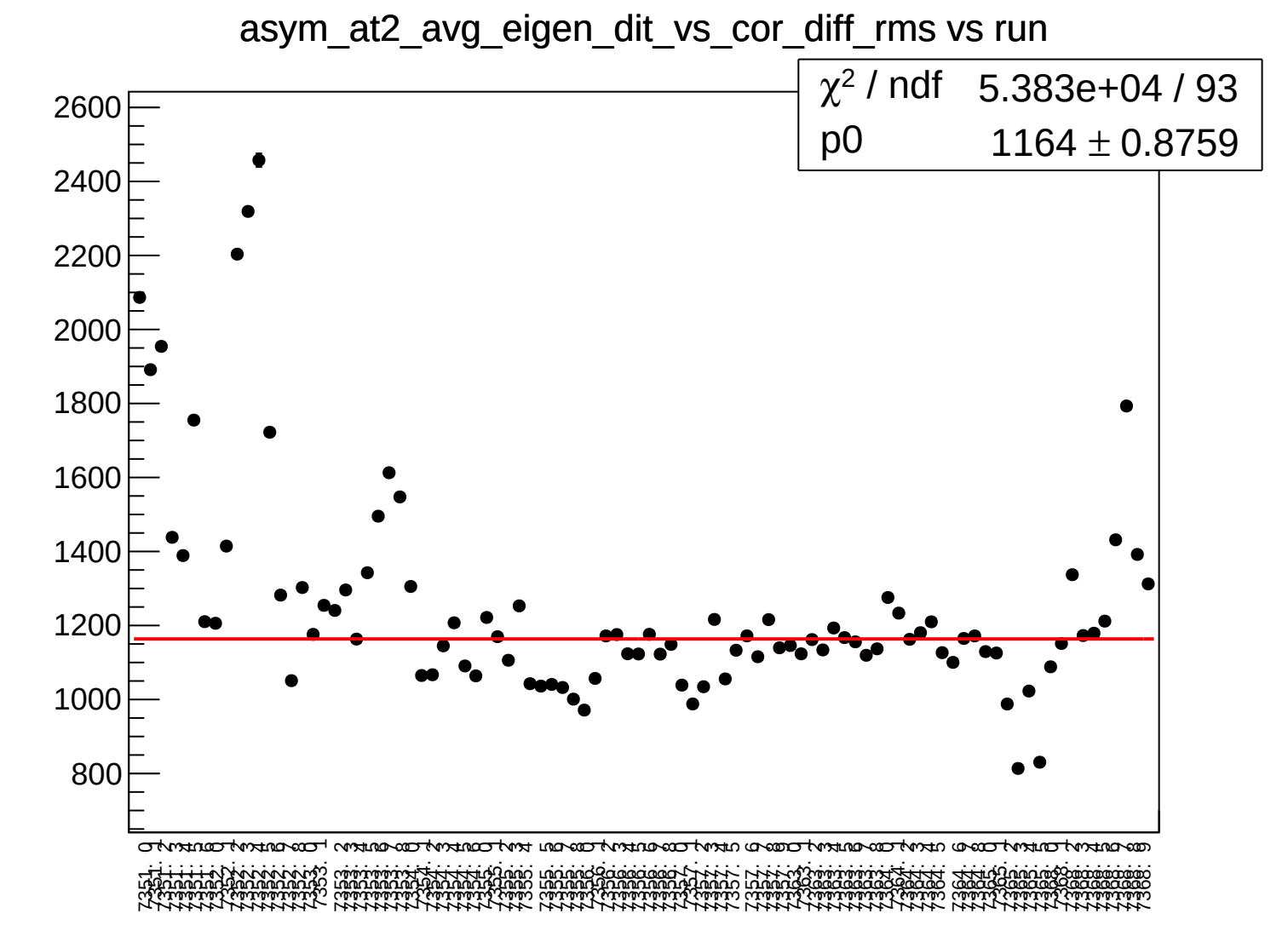

asym_at2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.384e+04 / 93
p0 1164 ± 0.8759
2600
2400
2200
2000
1800
1600
1400
1200
1000
800

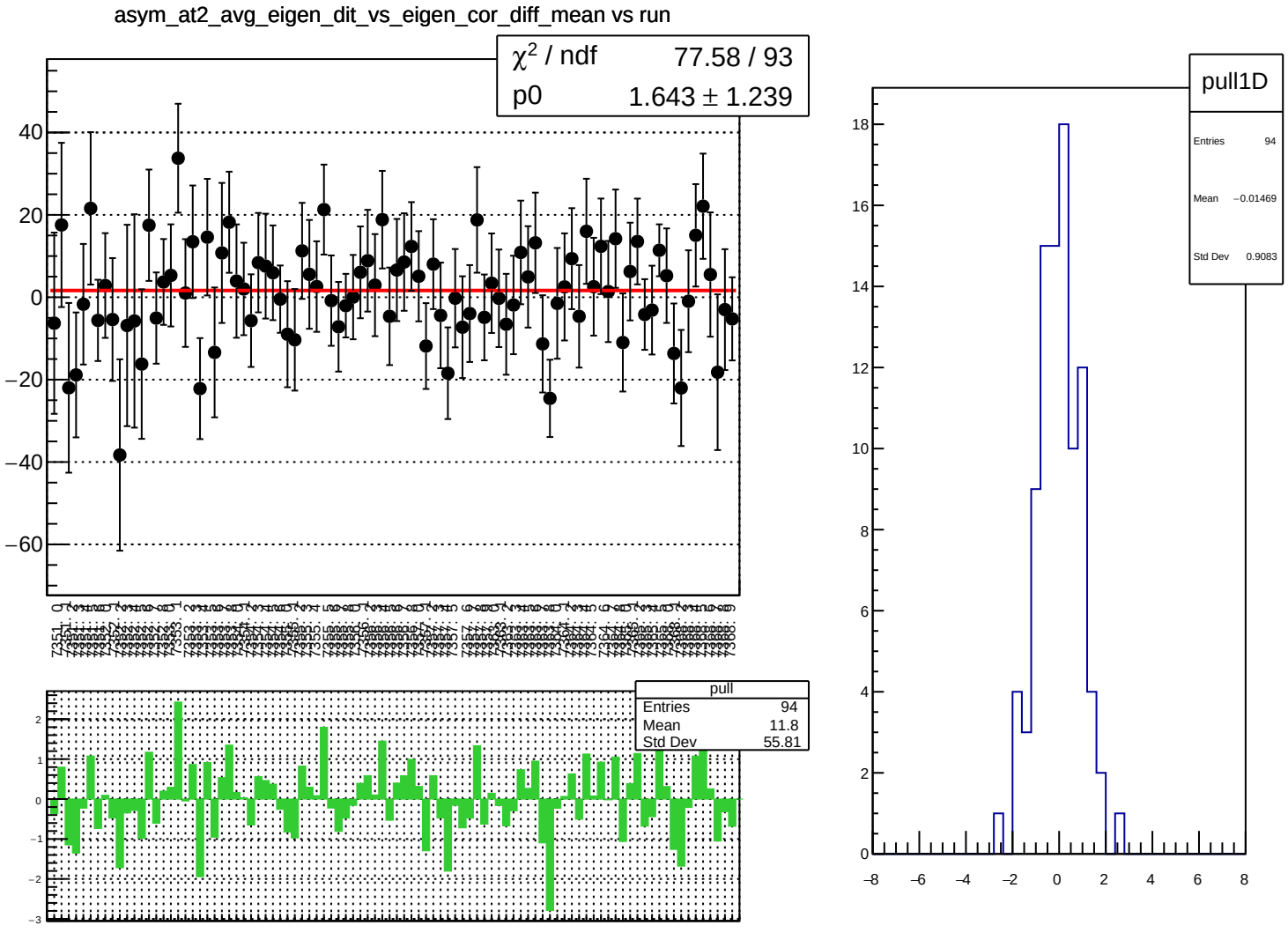

asym_at2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 80.82 / 93
p0 8.459e−05 ± 2.704e−05
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 94
Mean 83.72
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

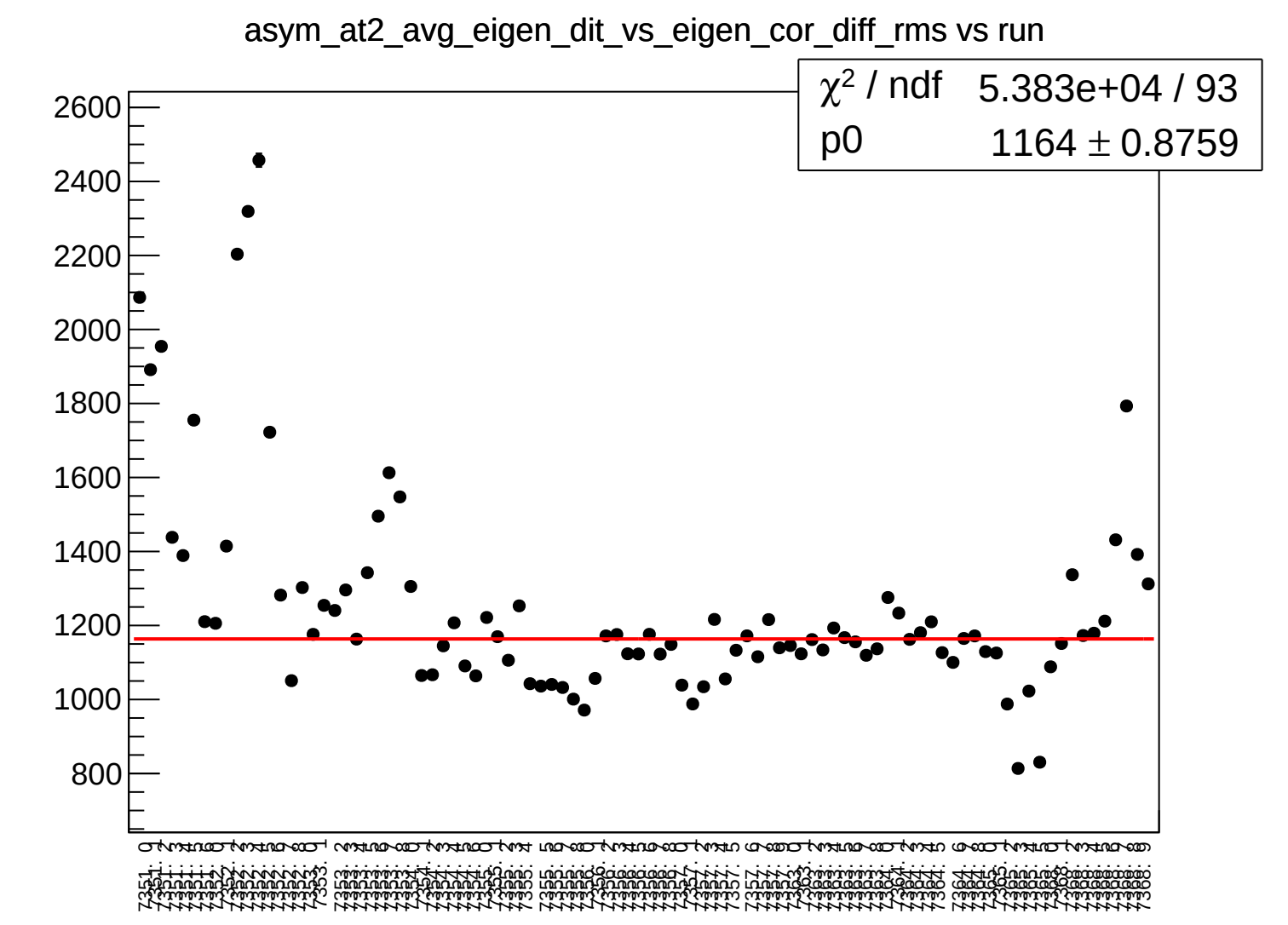

pull1D
Entries 94
Mean −0.05181
Std Dev 0.9258
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

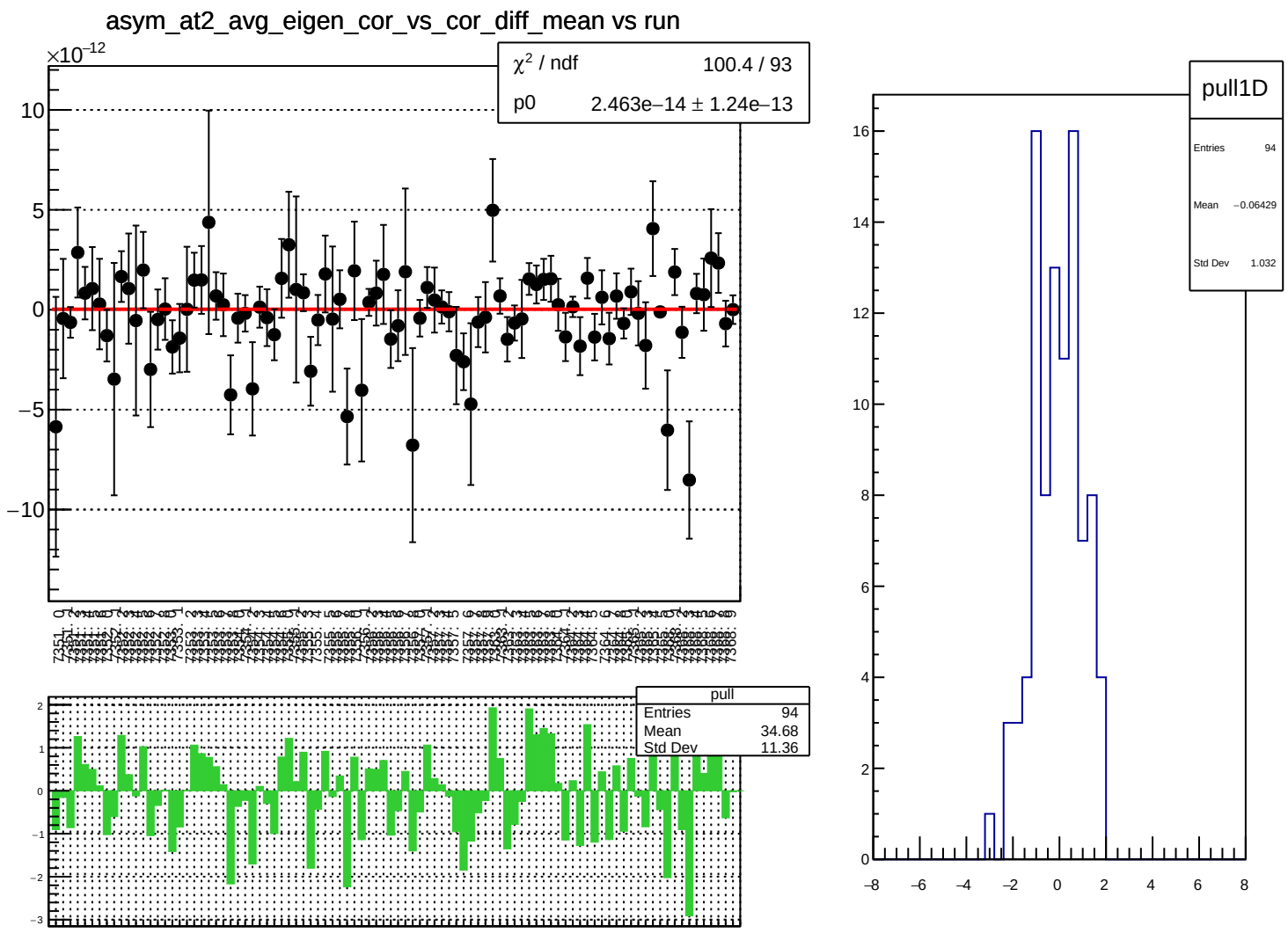

asym_at2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.035e+05 / 93
p0 0.02108 ± 1.912e−05
0.06
0.05
0.04
0.03
0.02
0.01

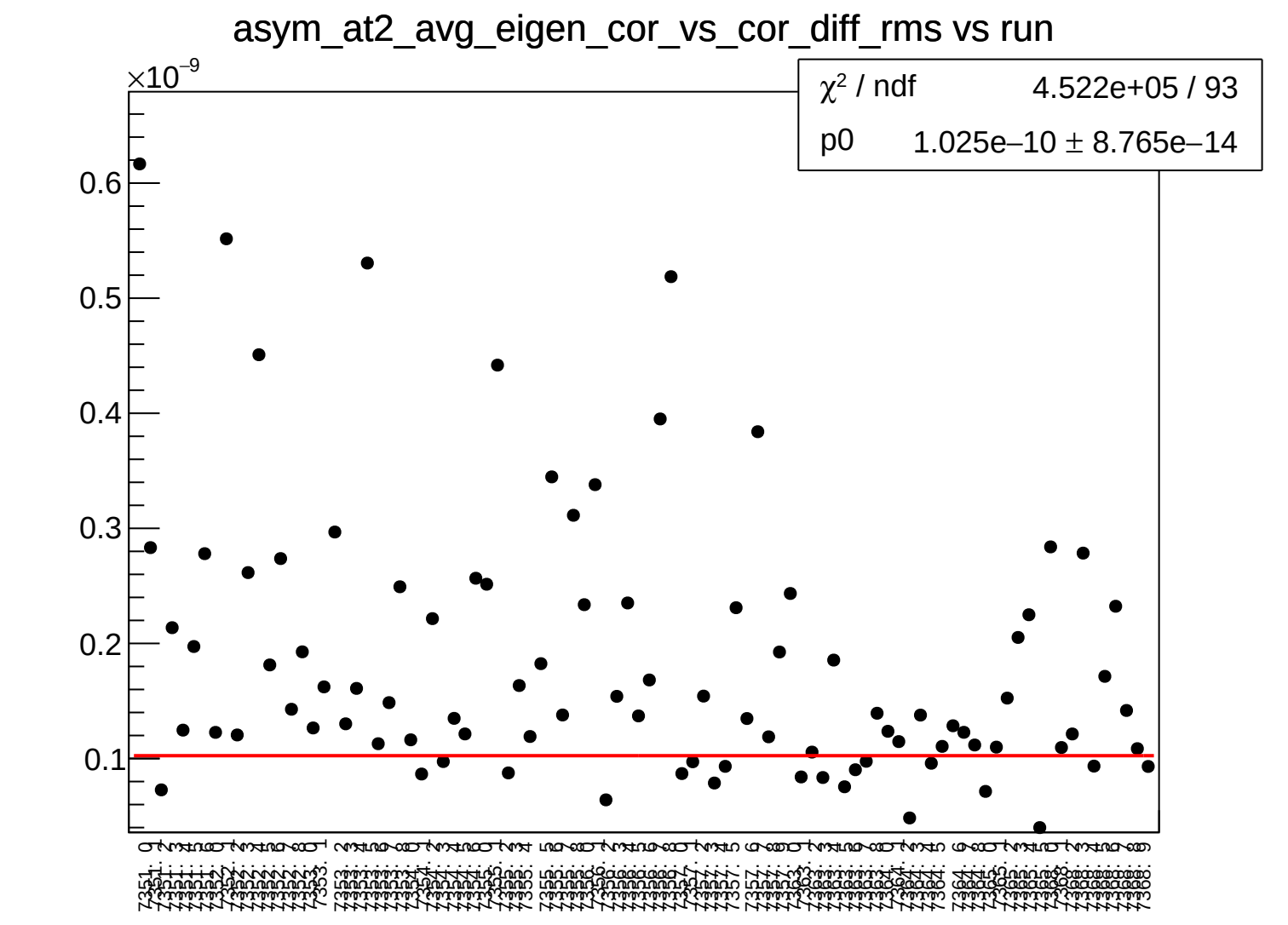

asym_at2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.58 / 93
p0 1.643 ± 1.239
pull
Entries 94
Mean 11.8
Std Dev 55.81
pull1D
Entries 94
Mean −0.01469
Std Dev 0.9083

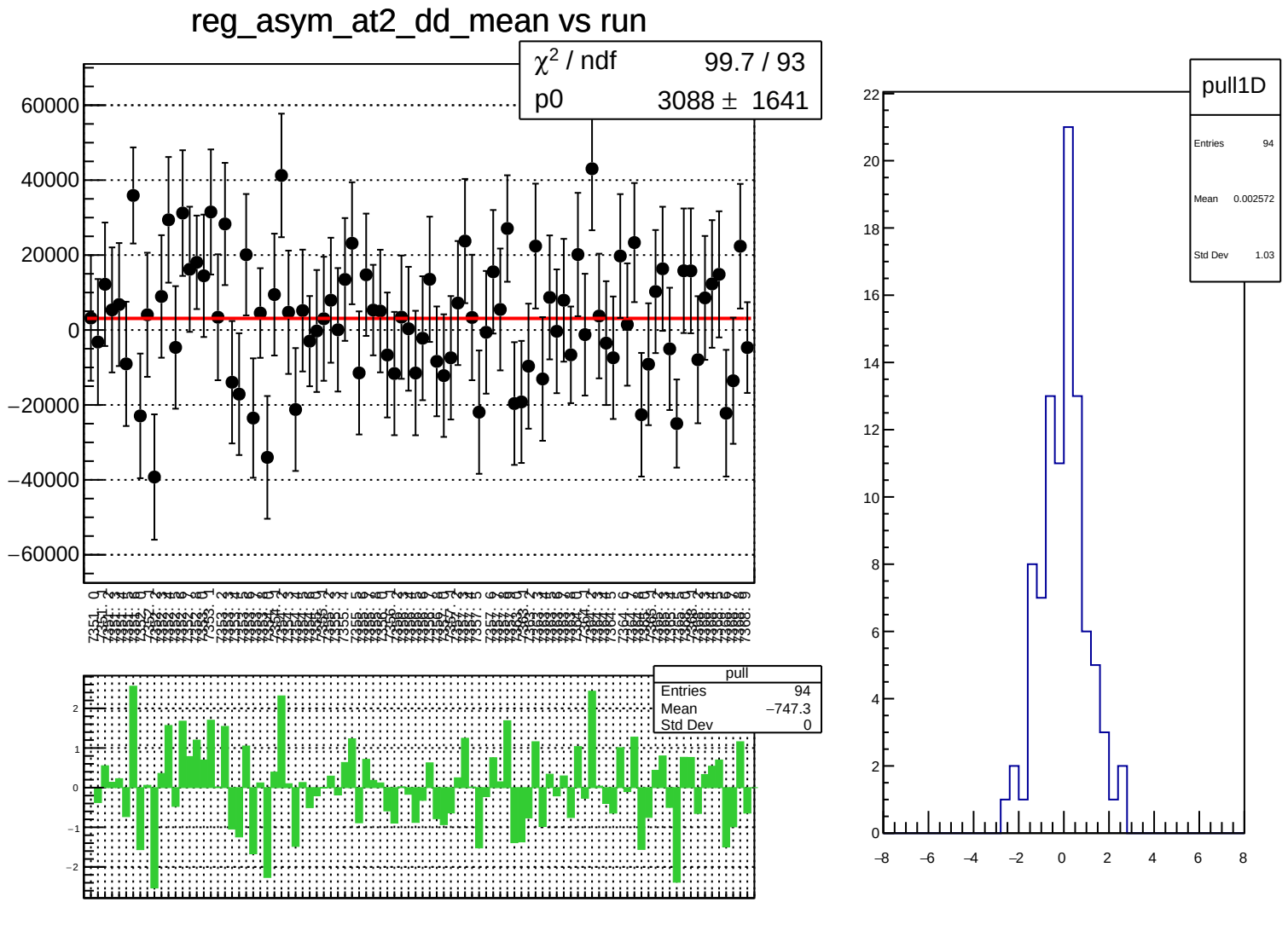

asym_at2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.383e+04 / 93
p0 1164 ± 0.8759
2600
2400
2200
2000
1800
1600
1400
1200
1000
800

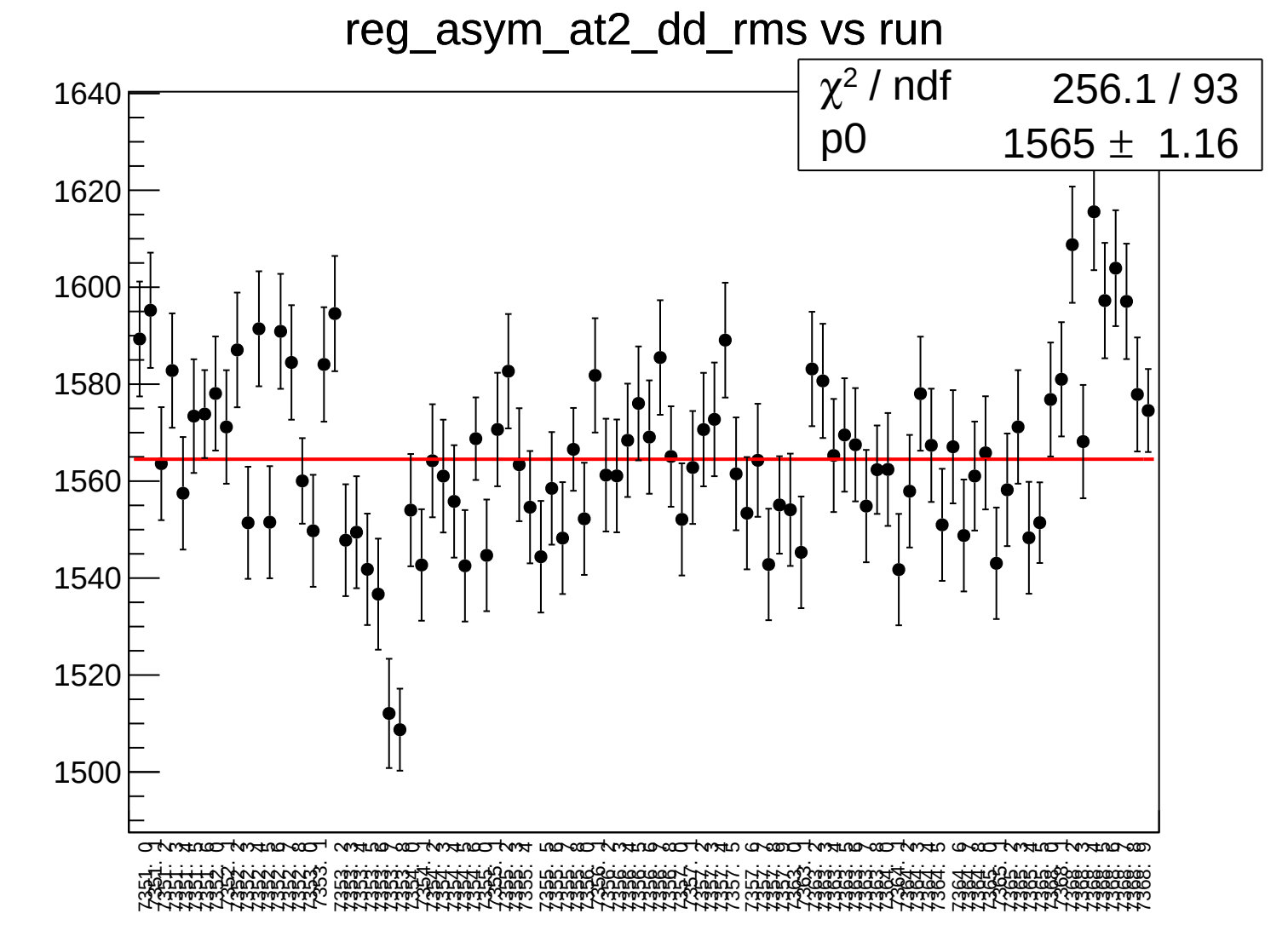

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.58 / 93
p0 1.643 ± 1.239
pull
Entries 94
Mean 11.8
Std Dev 55.81
pull1D
Entries 94
Mean −0.01469
Std Dev 0.9083

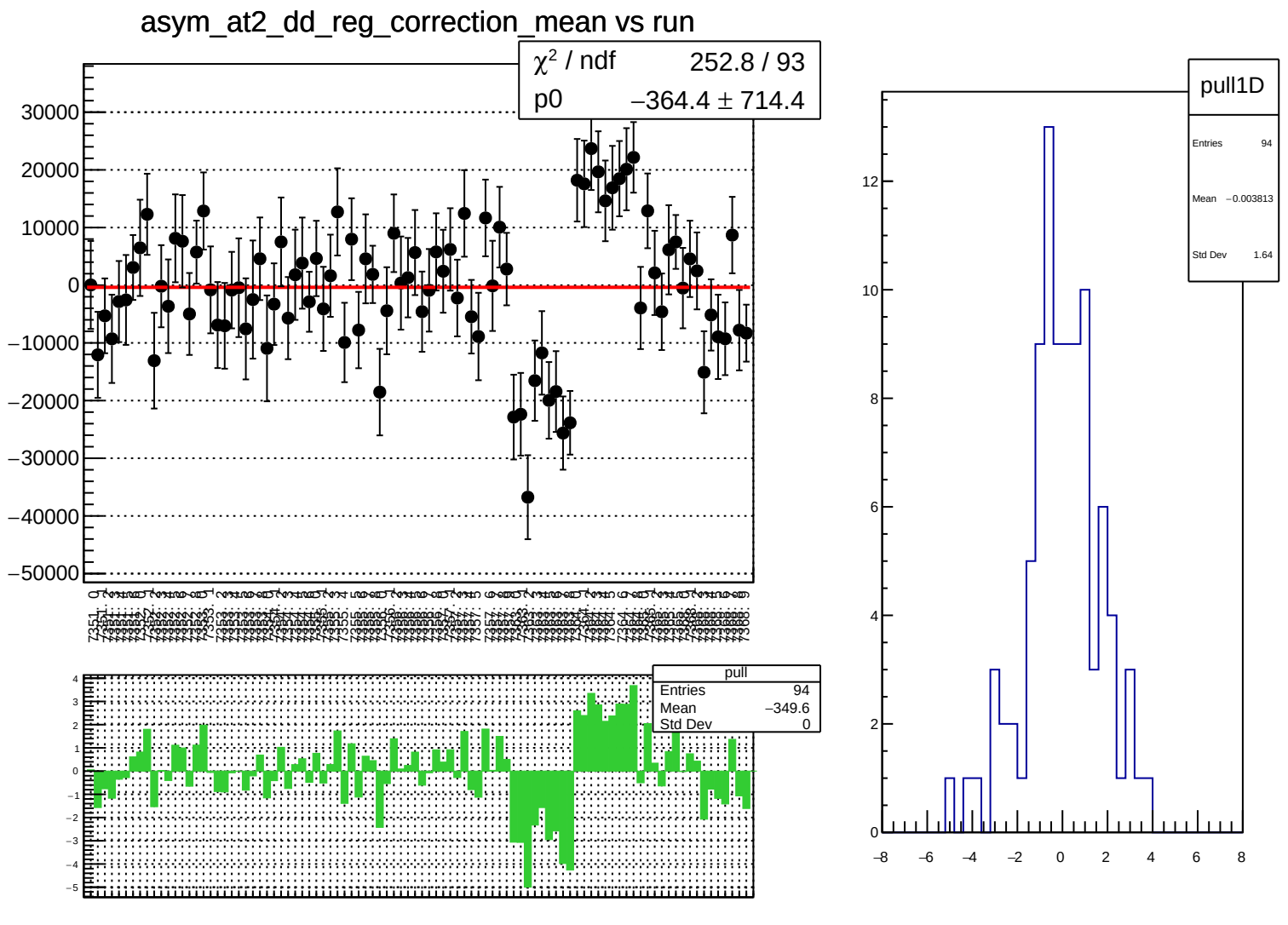

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.383e+04 / 93
p0 1164 ± 0.8759
2600
2400
2200
2000
1800
1600
1400
1200
1000
800

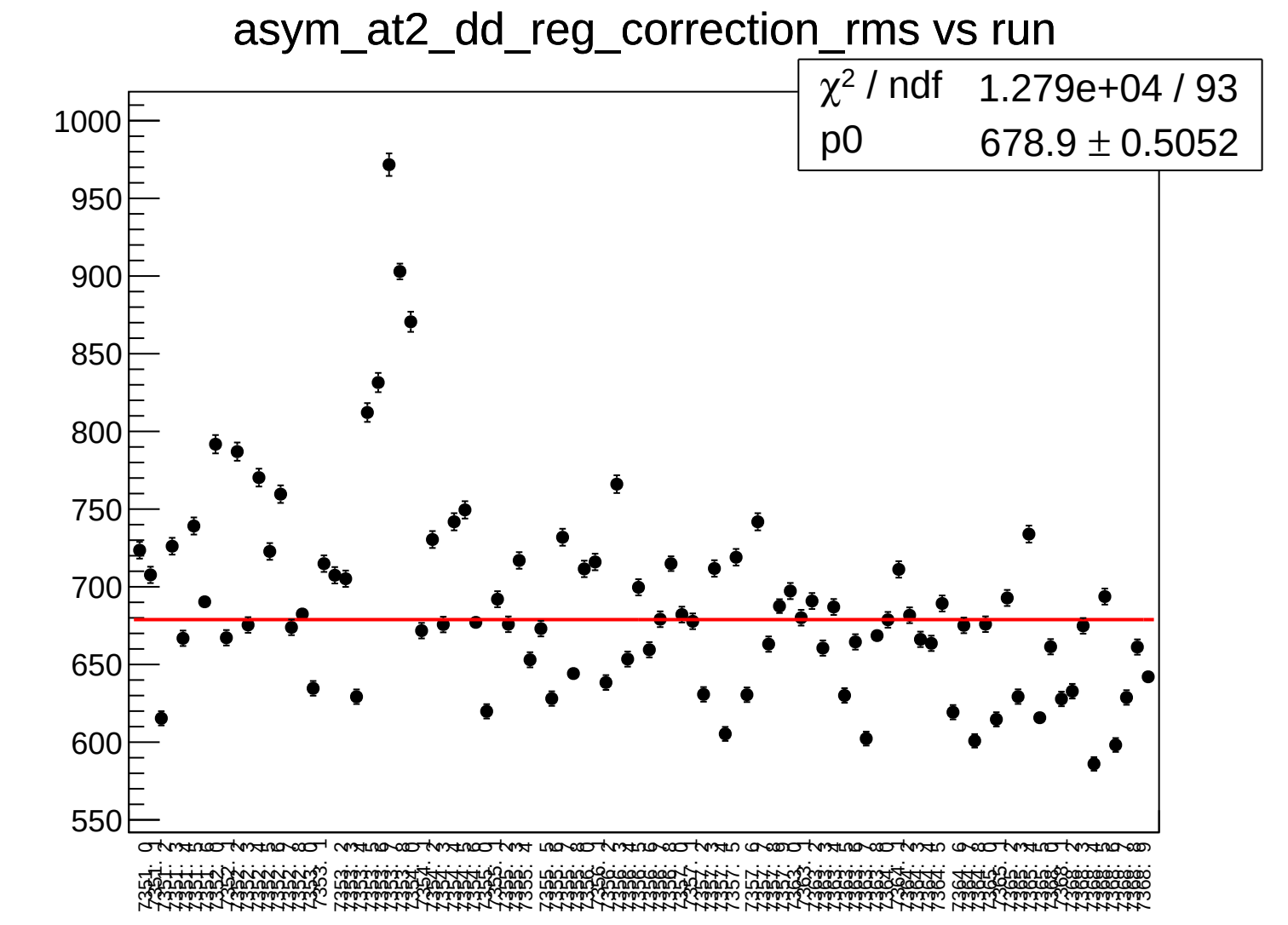

asym_at2_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 100.4 / 93
p0 2.463e−14 ± 1.24e−13
pull
Entries 94
Mean 34.68
Std Dev 11.36
pull1D
Entries 94
Mean −0.06429
Std Dev 1.032

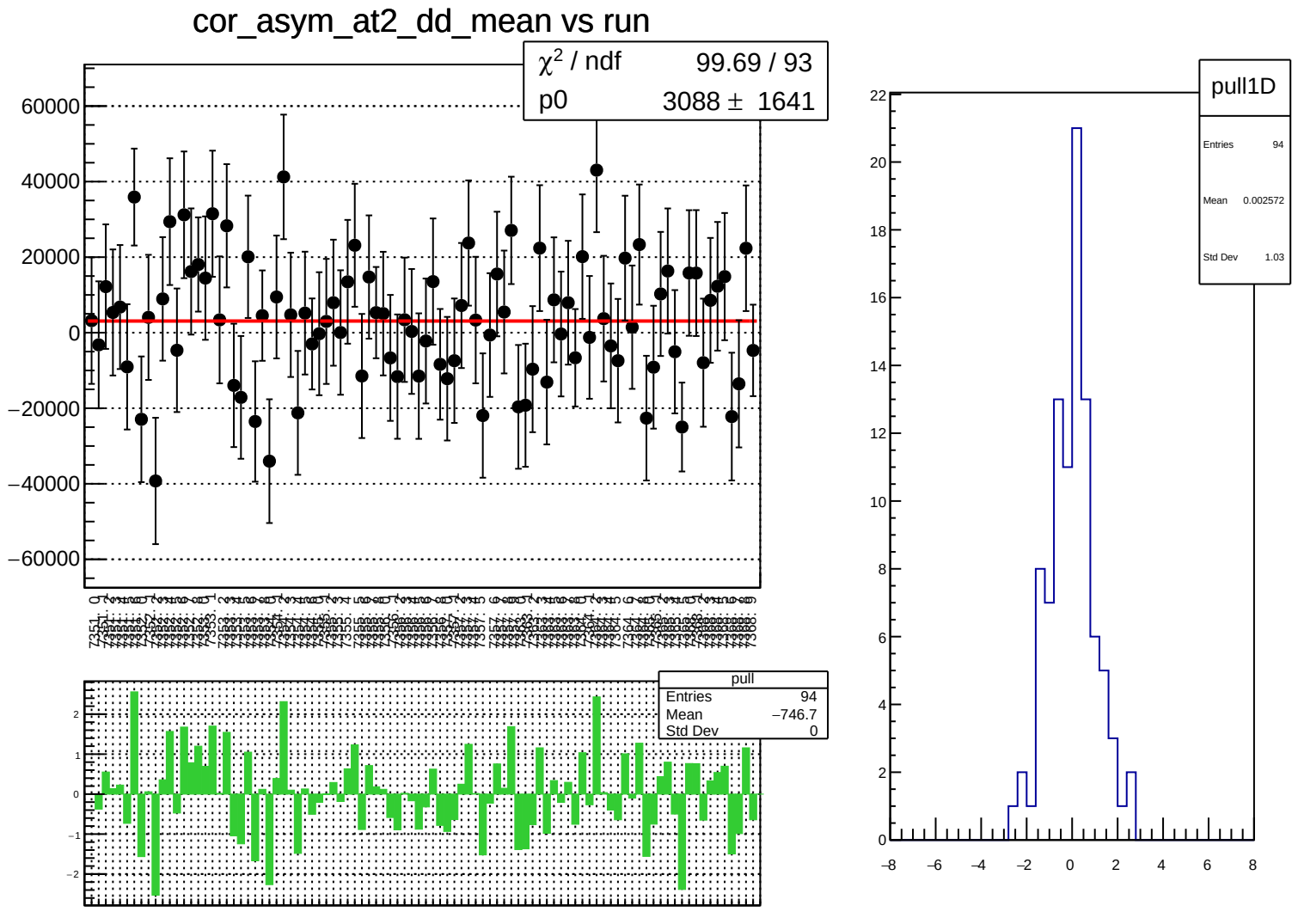

asym_at2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.522e+05 / 93
p0 1.025e−10 ± 8.765e−14
0.6
0.5
0.4
0.3
0.2
0.1

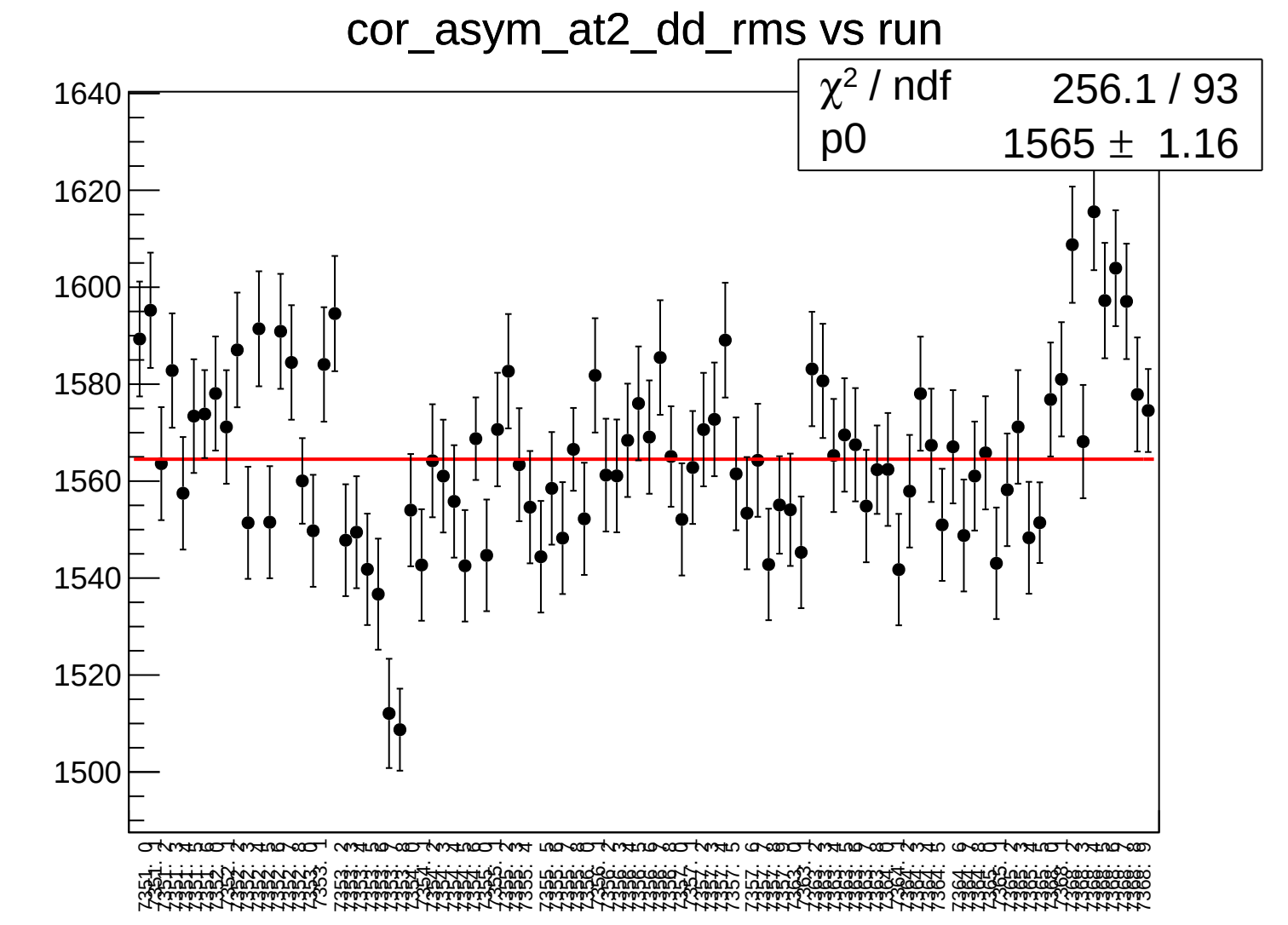

reg_asym_at2_dd_mean vs run
χ² / ndf 99.7 / 93
p0 3088 ± 1641
pull
Entries 94
Mean −747.3
Std Dev 0
pull1D
Entries 94
Mean 0.002572
Std Dev 1.03

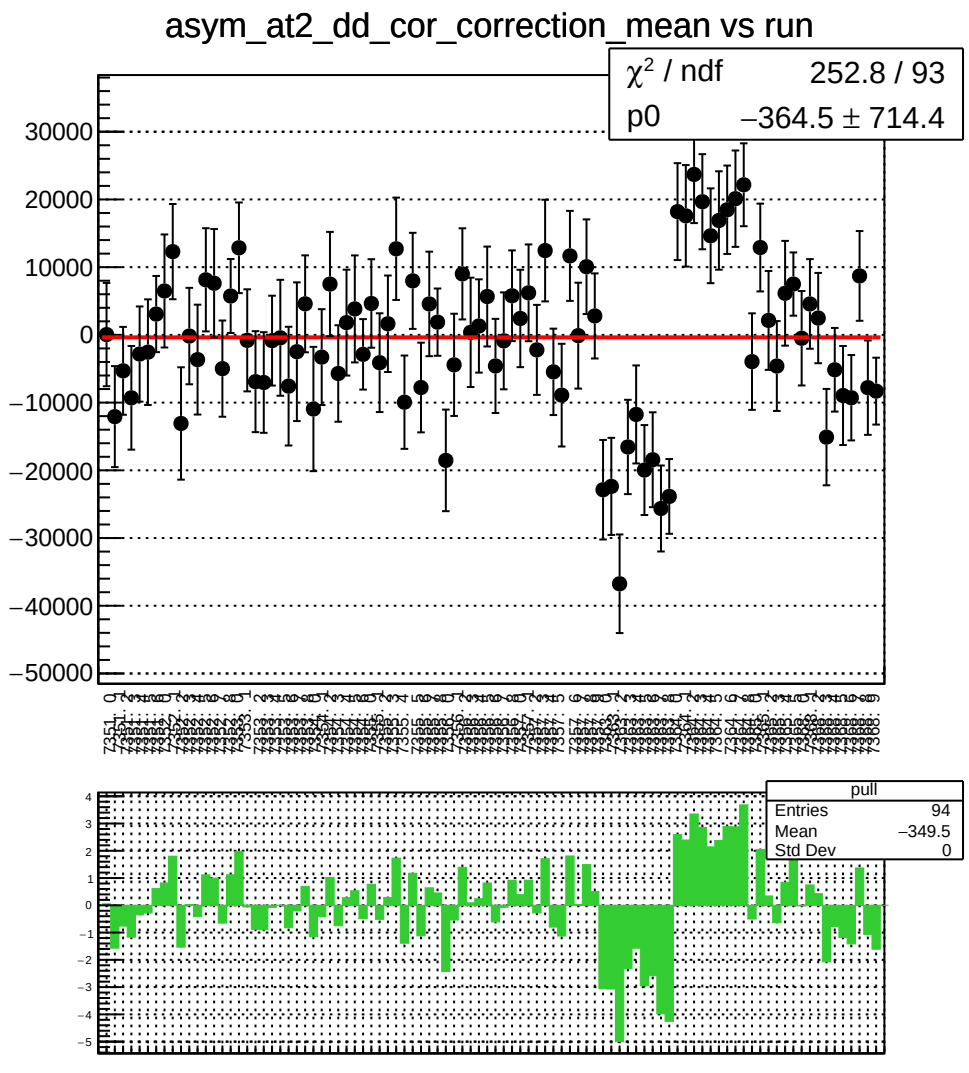

reg_asym_at2_dd_rms vs run
χ² / ndf 256.1 / 93
p0 1565 ± 1.16
1640
1620
1600
1580
1560
1540
1520
1500

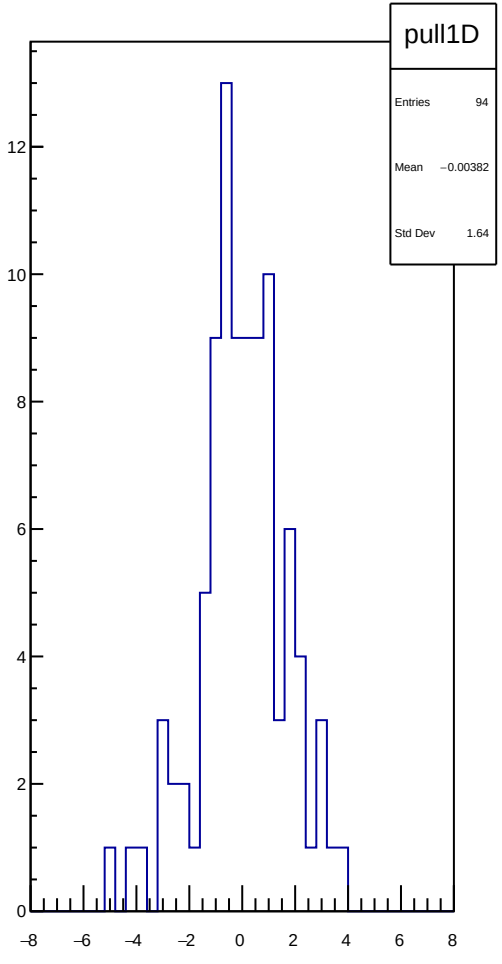

asym_at2_dd_reg_correction_mean vs run
χ² / ndf 252.8 / 93
p0 −364.4 ± 714.4
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
pull
Entries 94
Mean −349.6
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4
−5
pull1D
Entries 94
Mean −0.003813
Std Dev 1.64
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

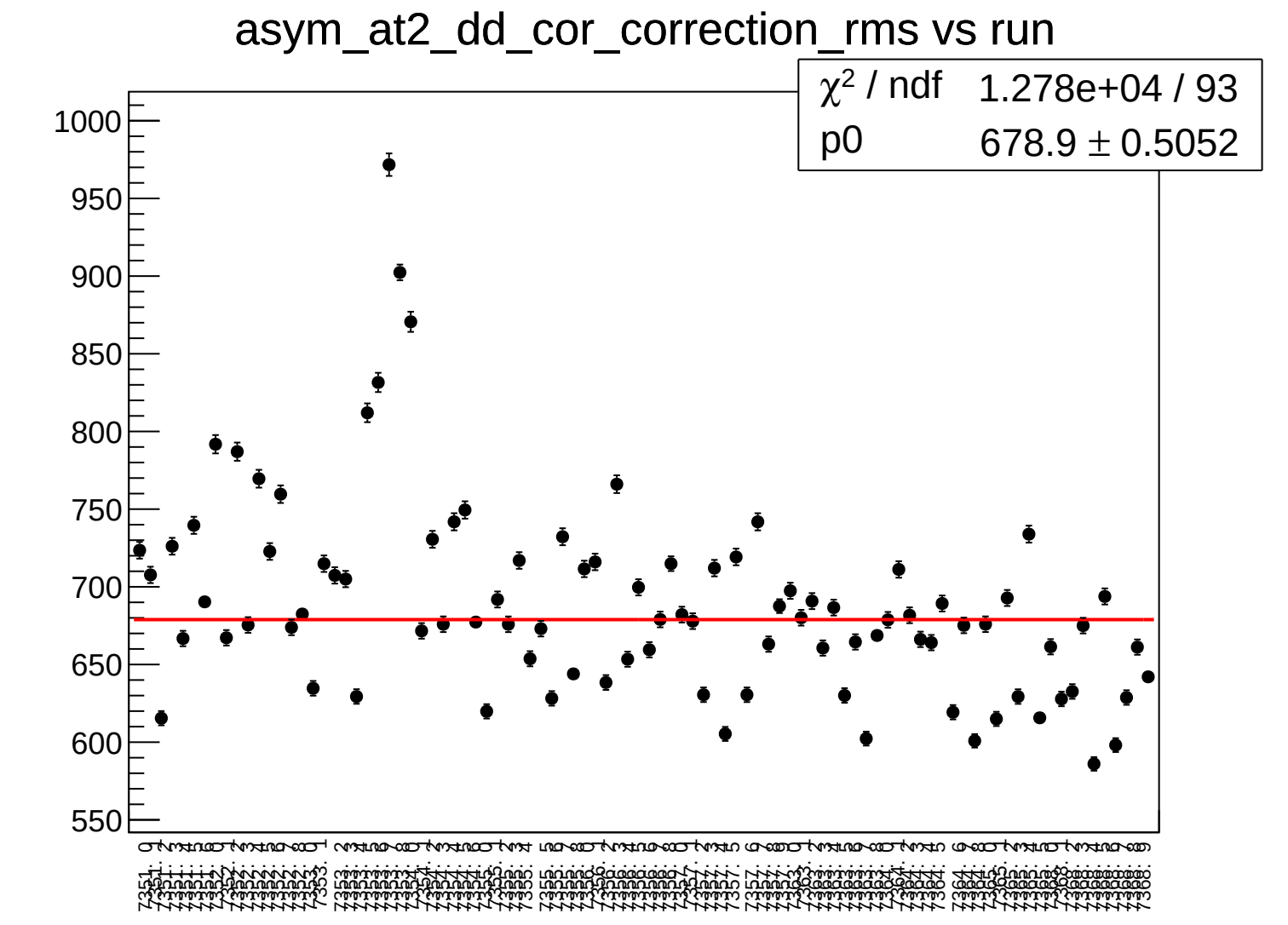

asym_at2_dd_reg_correction_rms vs run
χ² / ndf 1.279e+04 / 93
p0 678.9 ± 0.5052
1000
950
900
850
800
750
700
650
600
550

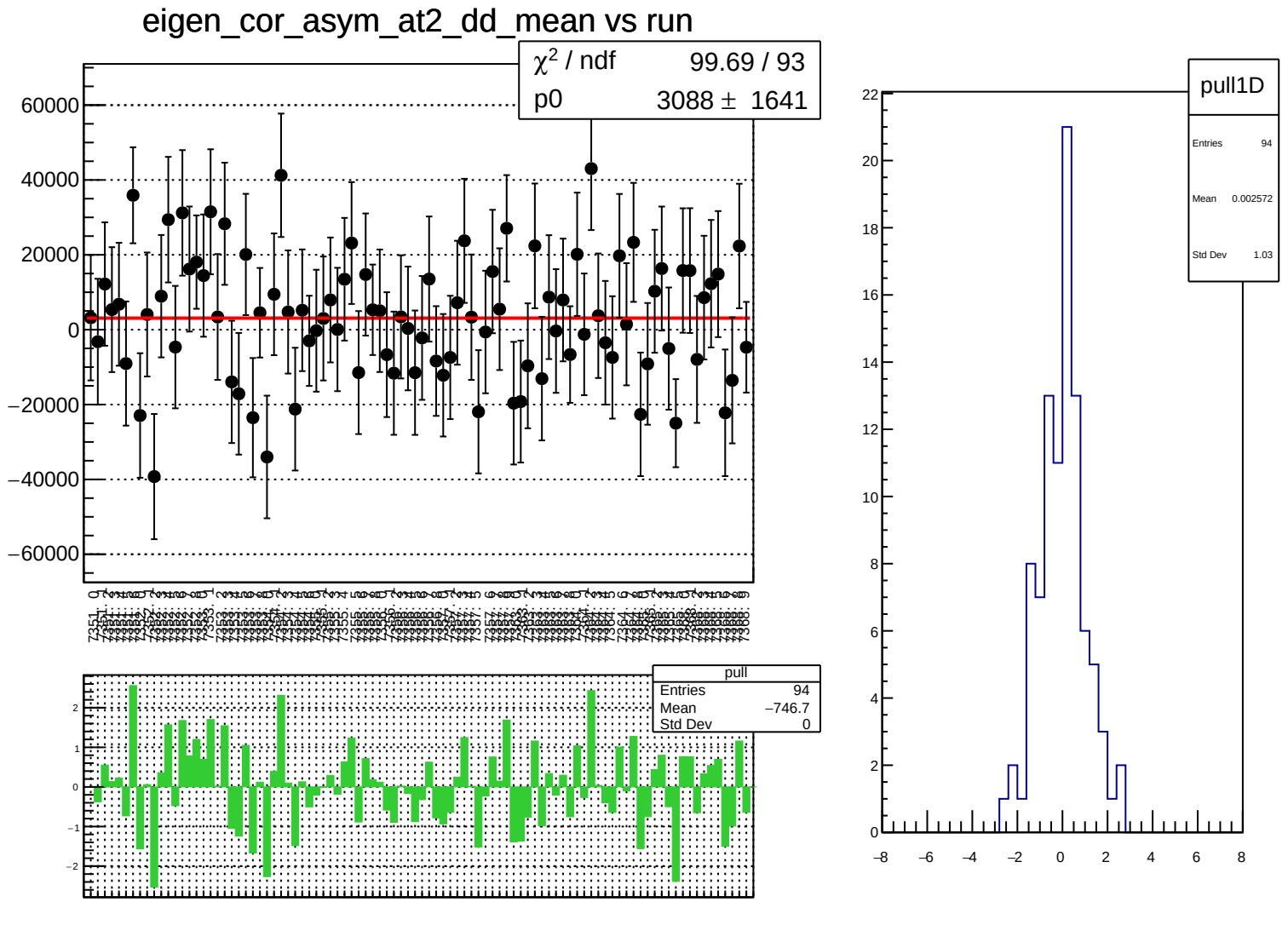

cor_asym_at2_dd_mean vs run
χ² / ndf 99.69 / 93
p0 3088 ± 1641
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −746.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.002572
Std Dev 1.03
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

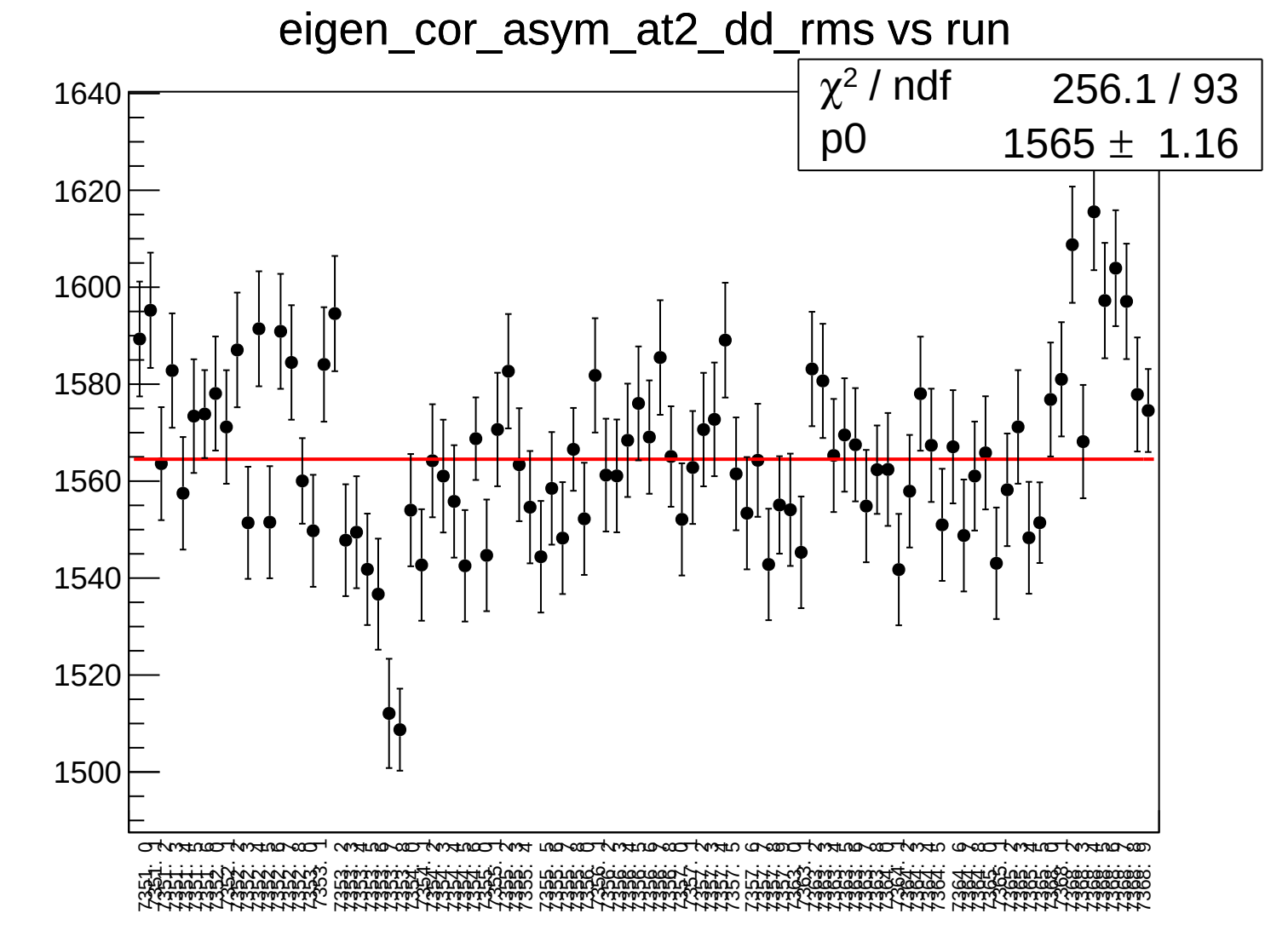

cor_asym_at2_dd_rms vs run
χ² / ndf 256.1 / 93
p0 1565 ± 1.16
1640
1620
1600
1580
1560
1540
1520
1500

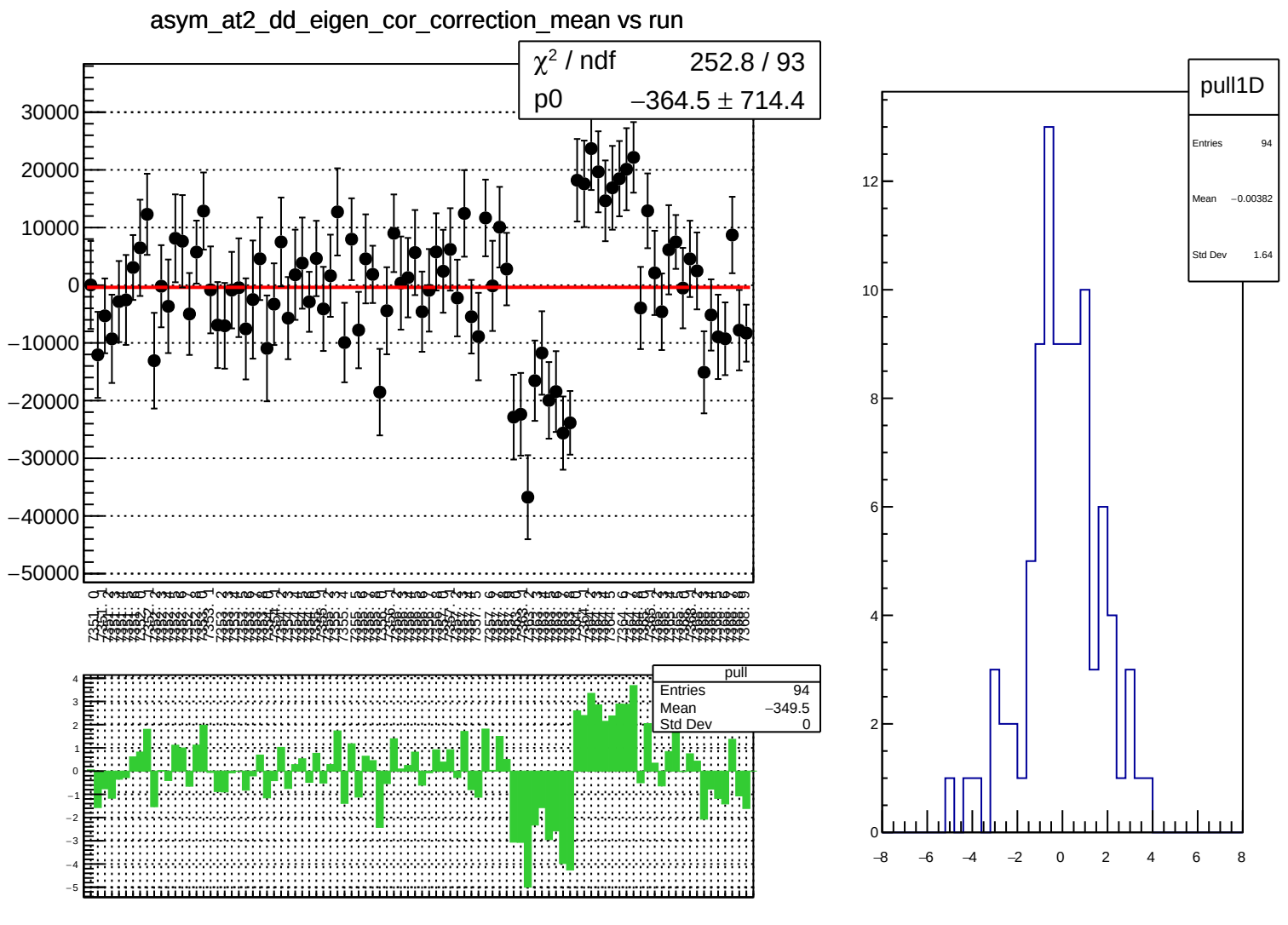

asym_at2_dd_cor_correction_mean vs run
χ² / ndf 252.8 / 93
p0 −364.5 ± 714.4
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
pull
Entries 94
Mean −349.5
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4
−5

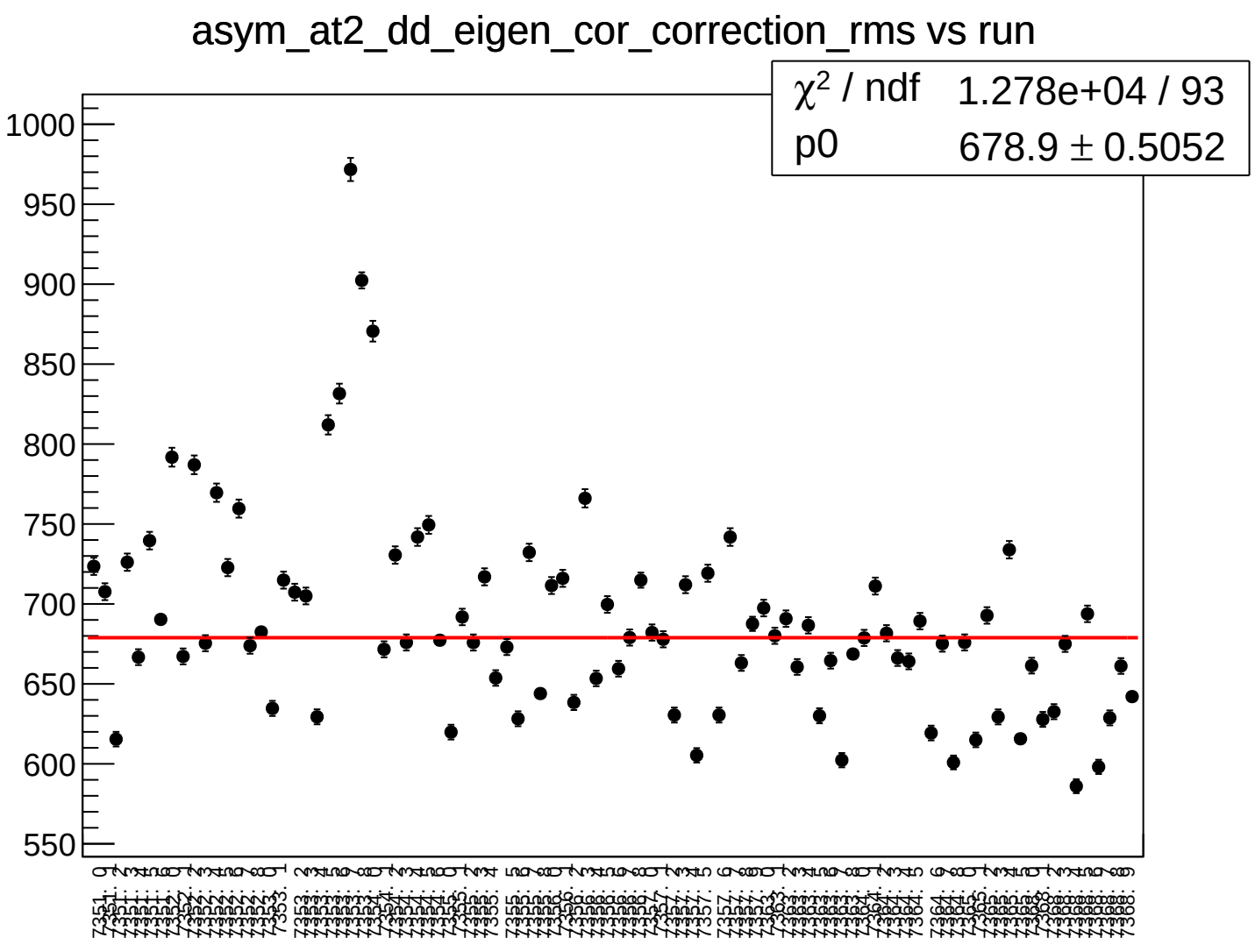

pull1D
Entries 94
Mean −0.00382
Std Dev 1.64
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

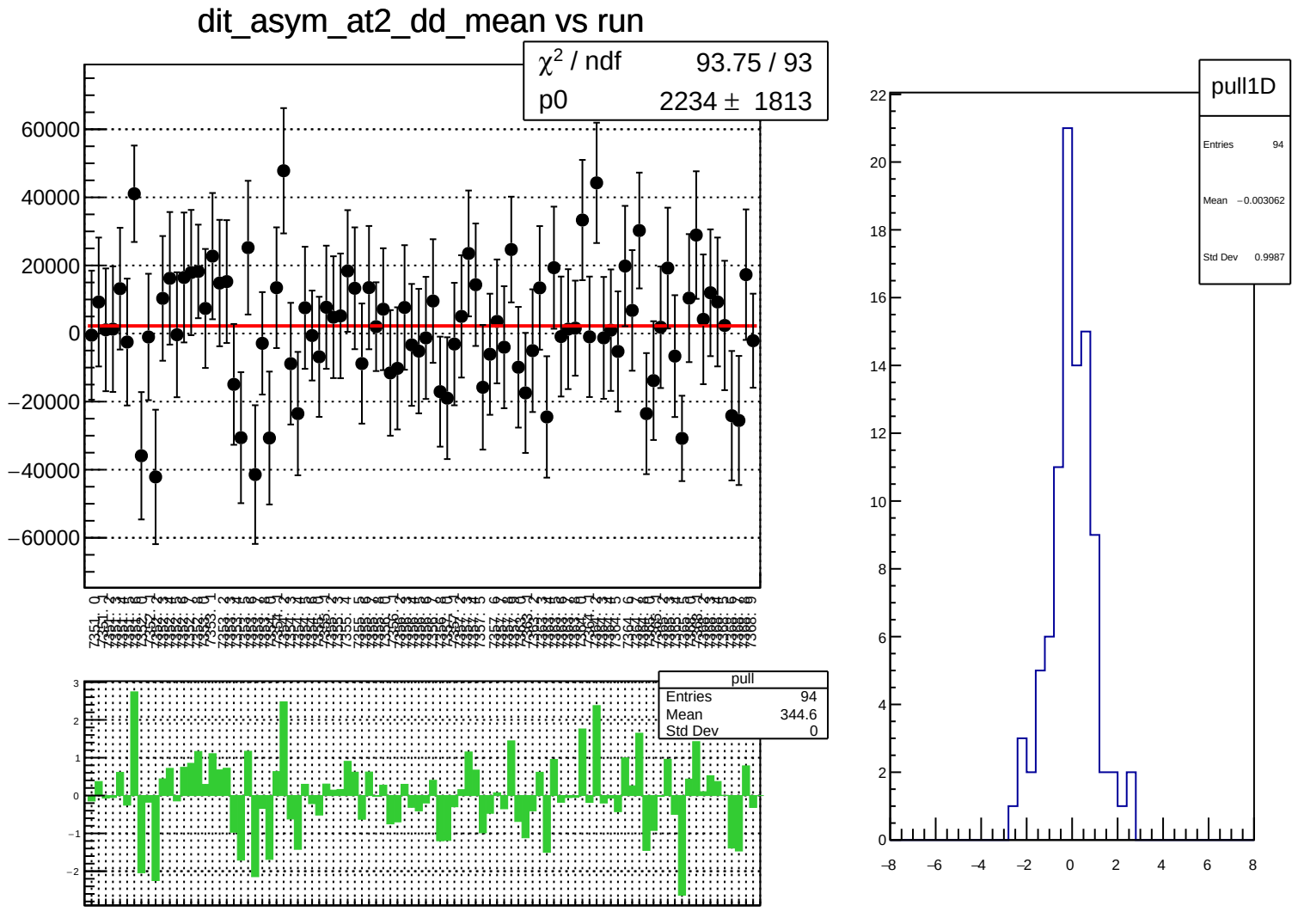

asym_at2_dd_cor_correction_rms vs run
χ² / ndf 1.278e+04 / 93
p0 678.9 ± 0.5052
1000
950
900
850
800
750
700
650
600
550

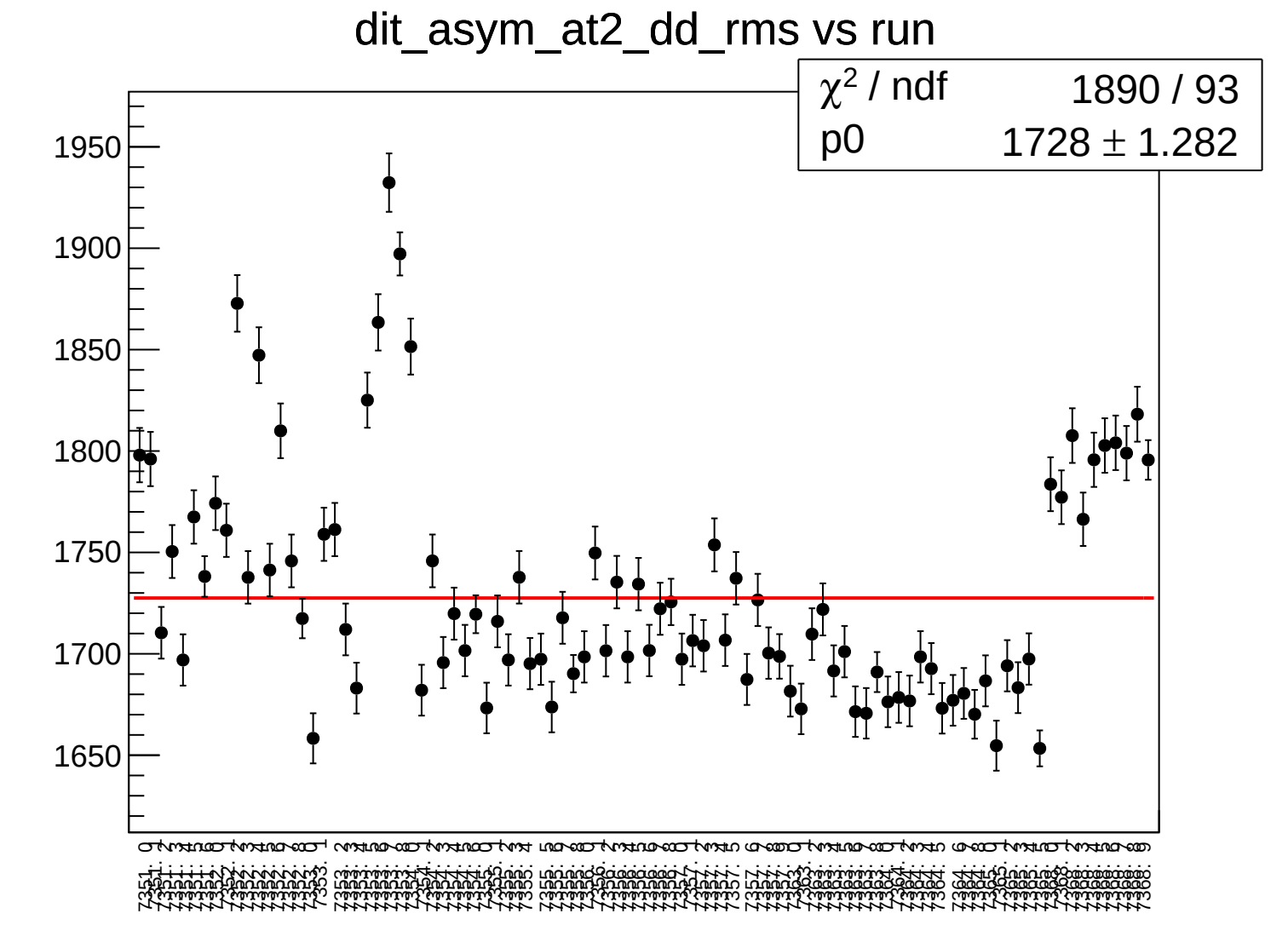

eigen_cor_asym_at2_dd_mean vs run
χ² / ndf 99.69 / 93
p0 3088 ± 1641
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −746.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.002572
Std Dev 1.03
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

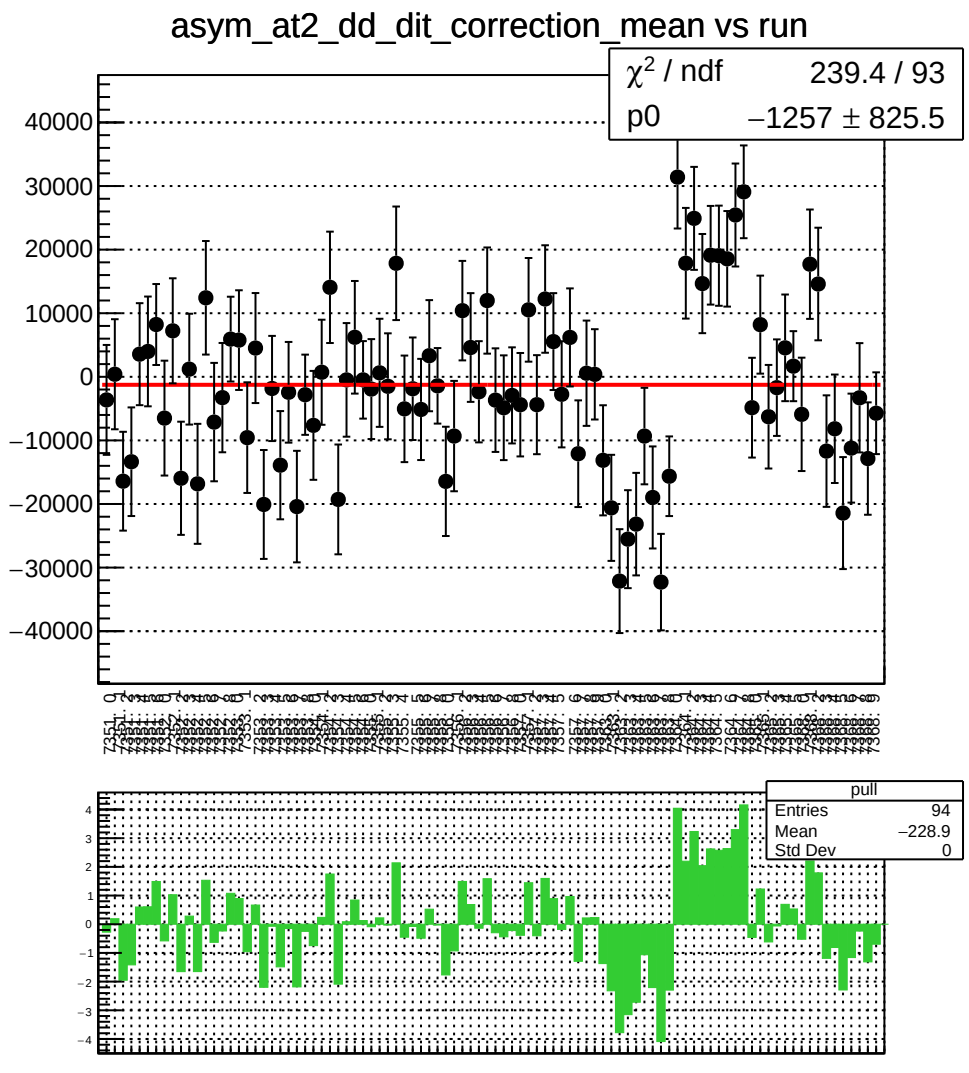

eigen_cor_asym_at2_dd_rms vs run
χ² / ndf 256.1 / 93
p0 1565 ± 1.16
1640
1620
1600
1580
1560
1540
1520
1500

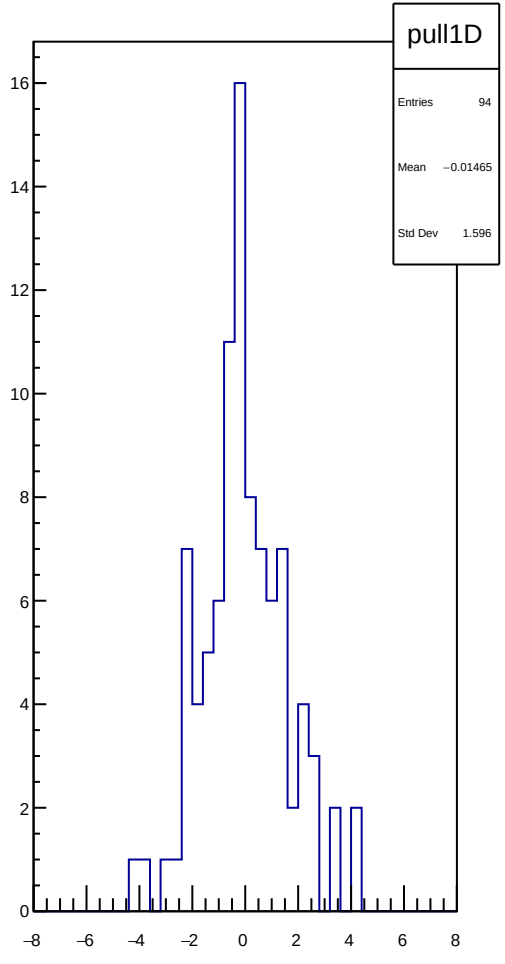

asym_at2_dd_eigen_cor_correction_mean vs run
χ² / ndf 252.8 / 93
p0 −364.5 ± 714.4
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
pull
Entries 94
Mean −349.5
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4
−5
pull1D
Entries 94
Mean −0.00382
Std Dev 1.64
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

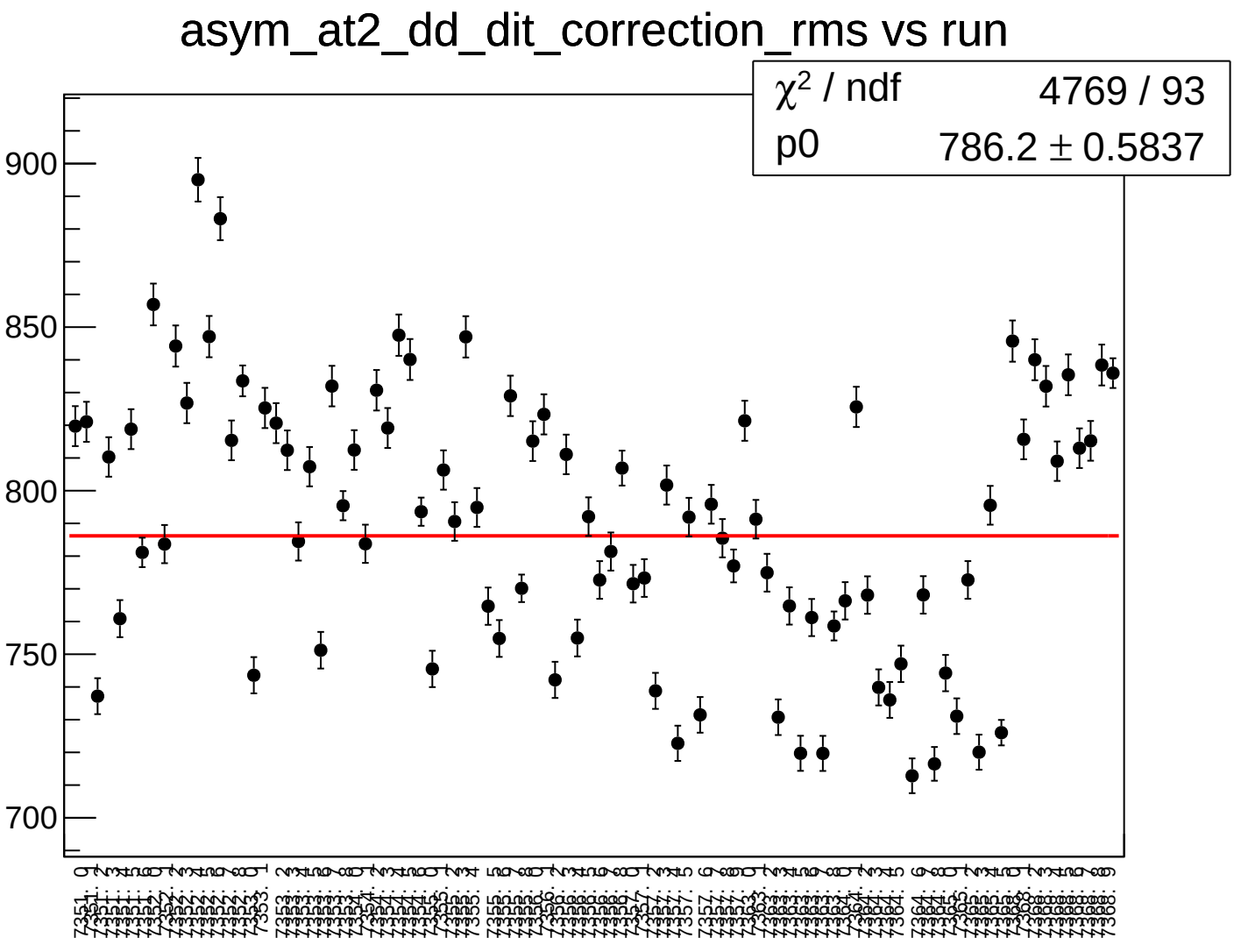

asym_at2_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.278e+04 / 93
p0 678.9 ± 0.5052
1000
950
900
850
800
750
700
650
600
550

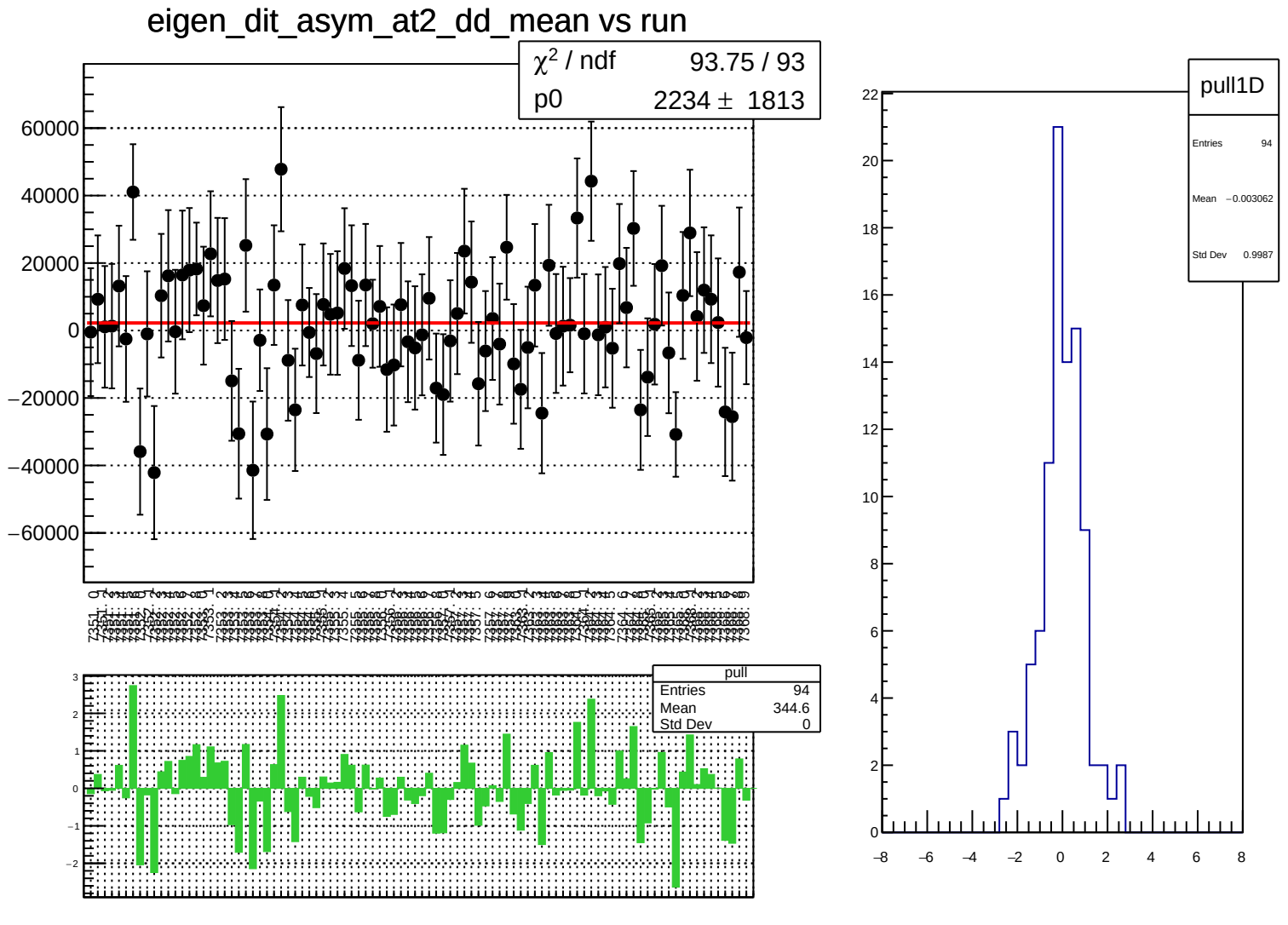

dit_asym_at2_dd_mean vs run
χ² / ndf 93.75 / 93
p0 2234 ± 1813
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 344.6
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.003062
Std Dev 0.9987
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

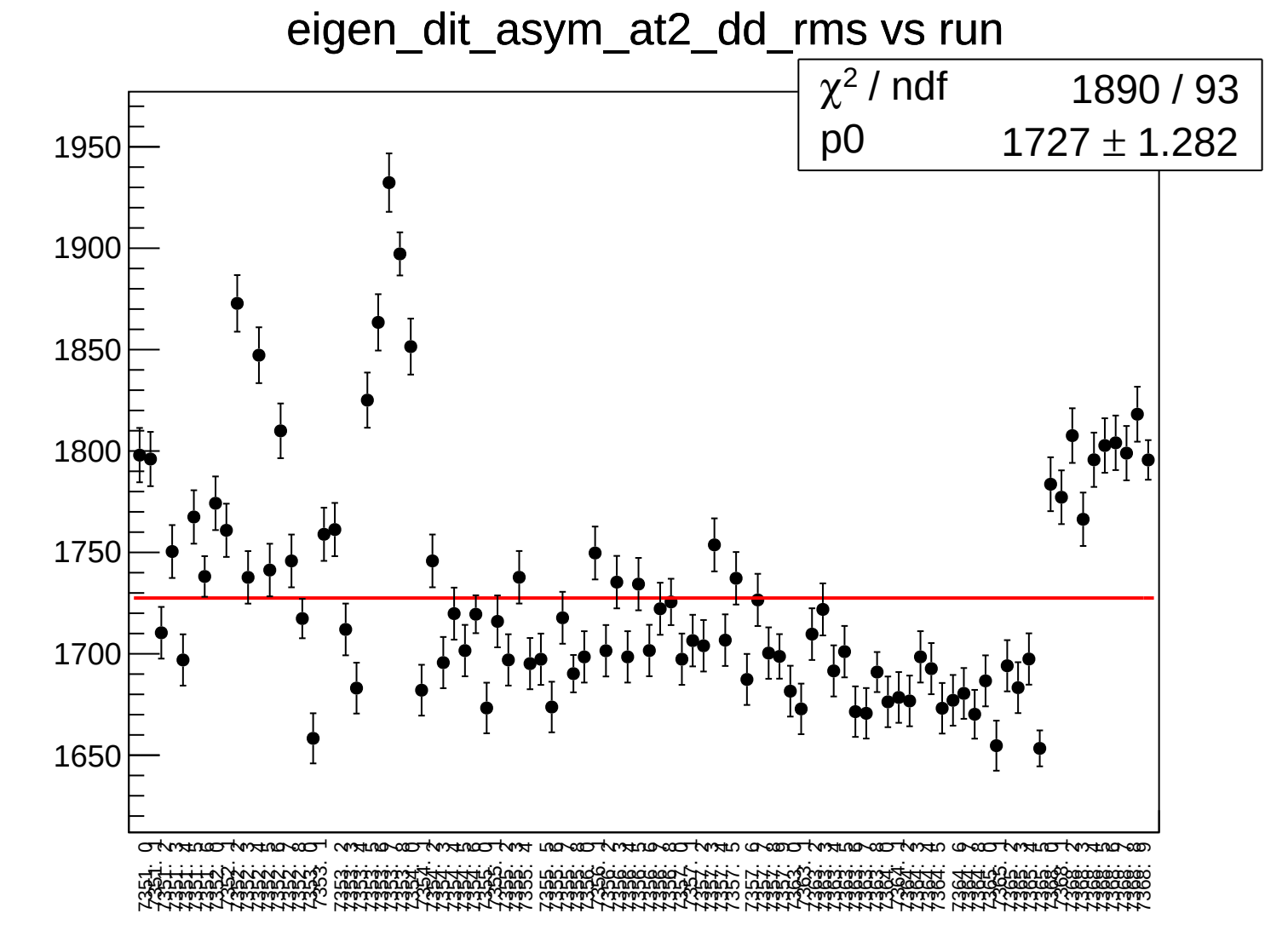

dit_asym_at2_dd_rms vs run
χ^2 / ndf 1890 / 93
p0 1728 ± 1.282
1950
1900
1850
1800
1750
1700
1650

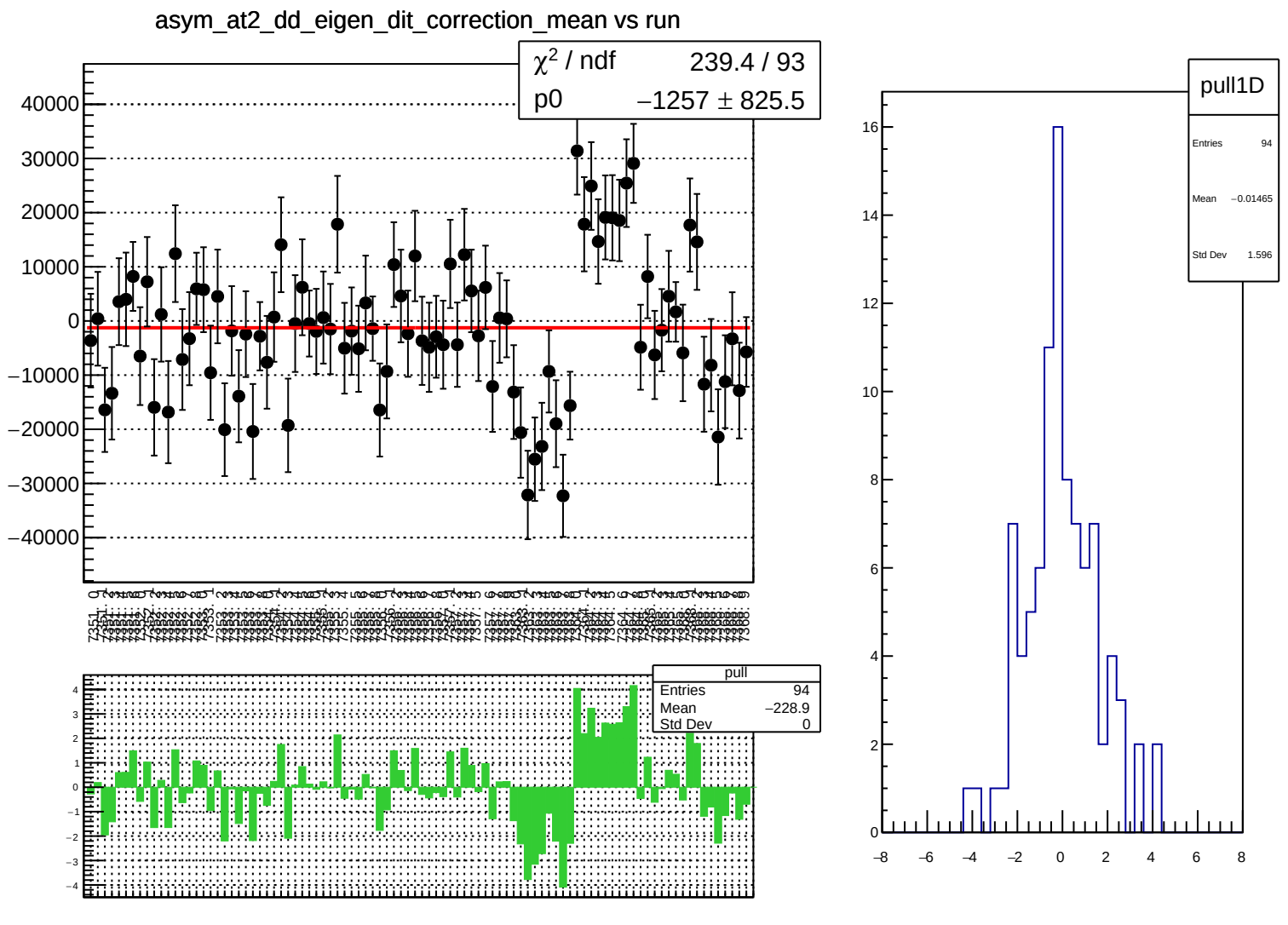

asym_at2_dd_dit_correction_mean vs run
χ² / ndf 239.4 / 93
p0 −1257 ± 825.5
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 94
Mean −228.9
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4

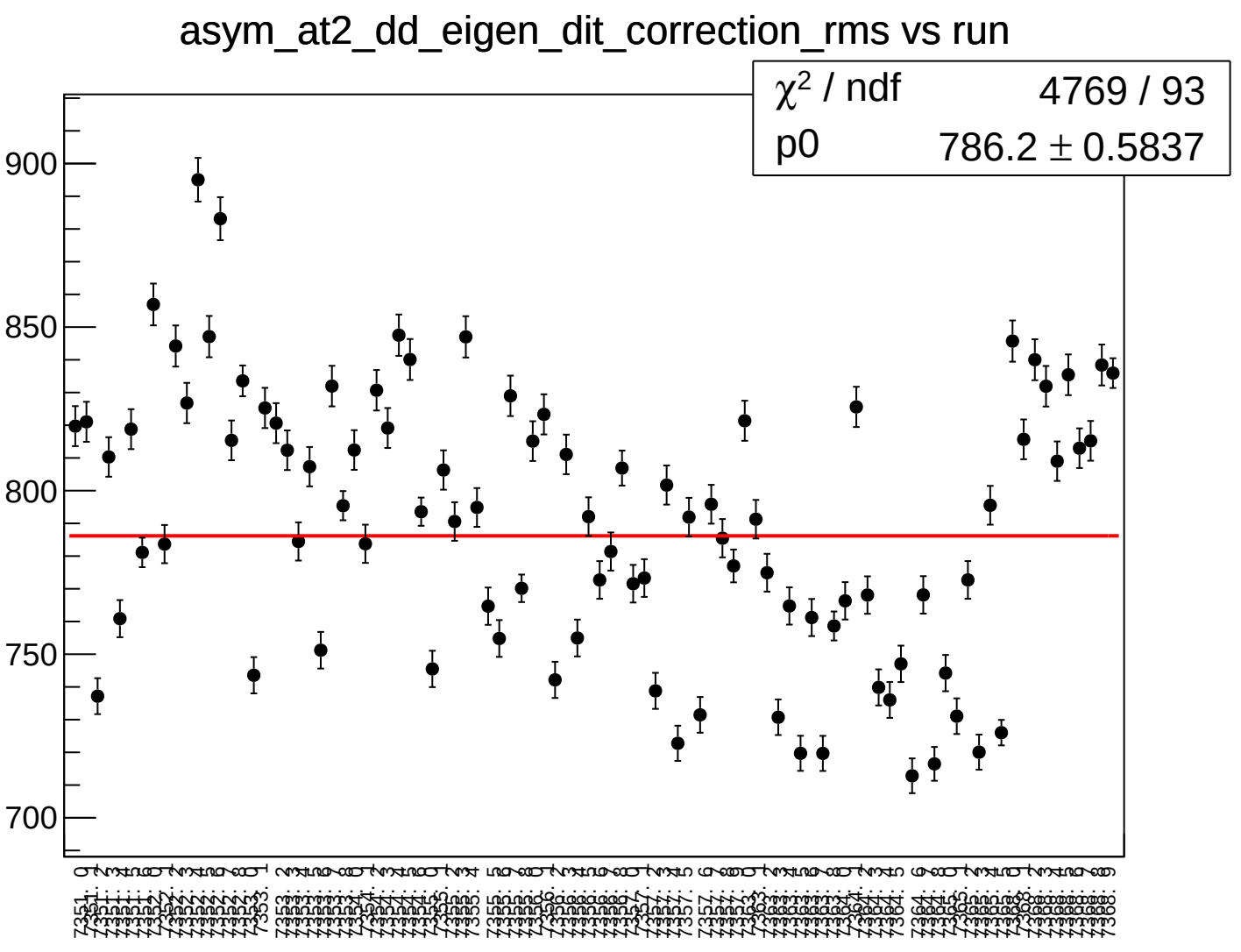

pull1D
Entries 94
Mean −0.01465
Std Dev 1.596
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

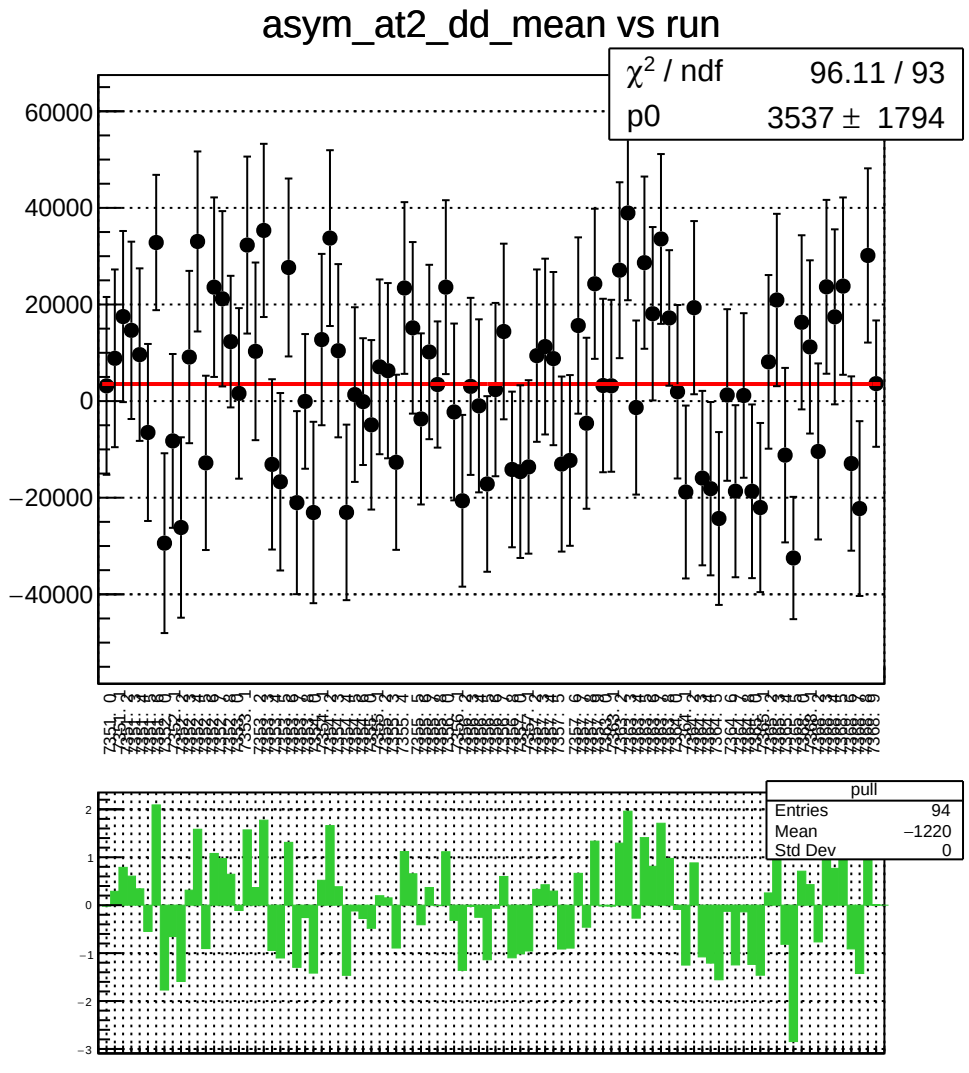

asym_at2_dd_dit_correction_rms vs run
χ² / ndf 4769 / 93
p0 786.2 ± 0.5837
900
850
800
750
700

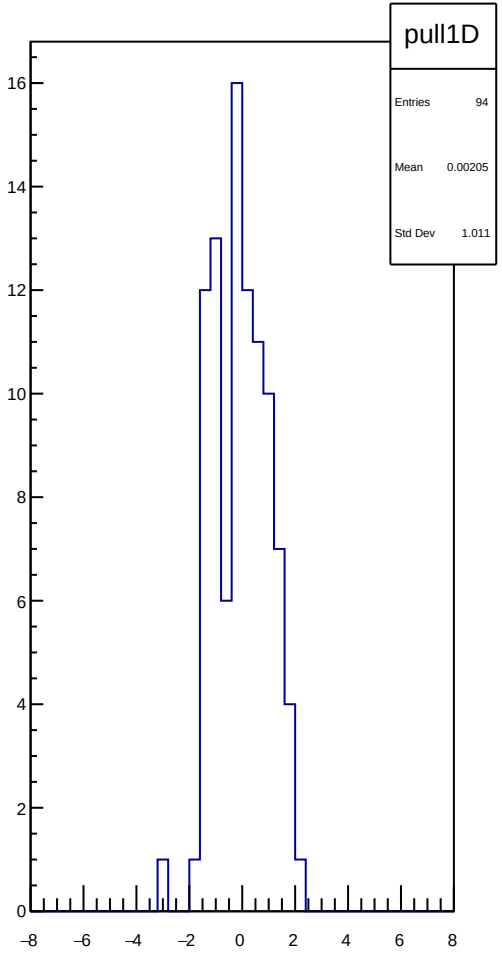

eigen_dit_asym_at2_dd_mean vs run
χ² / ndf 93.75 / 93
p0 2234 ± 1813
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 344.6
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.003062
Std Dev 0.9987
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

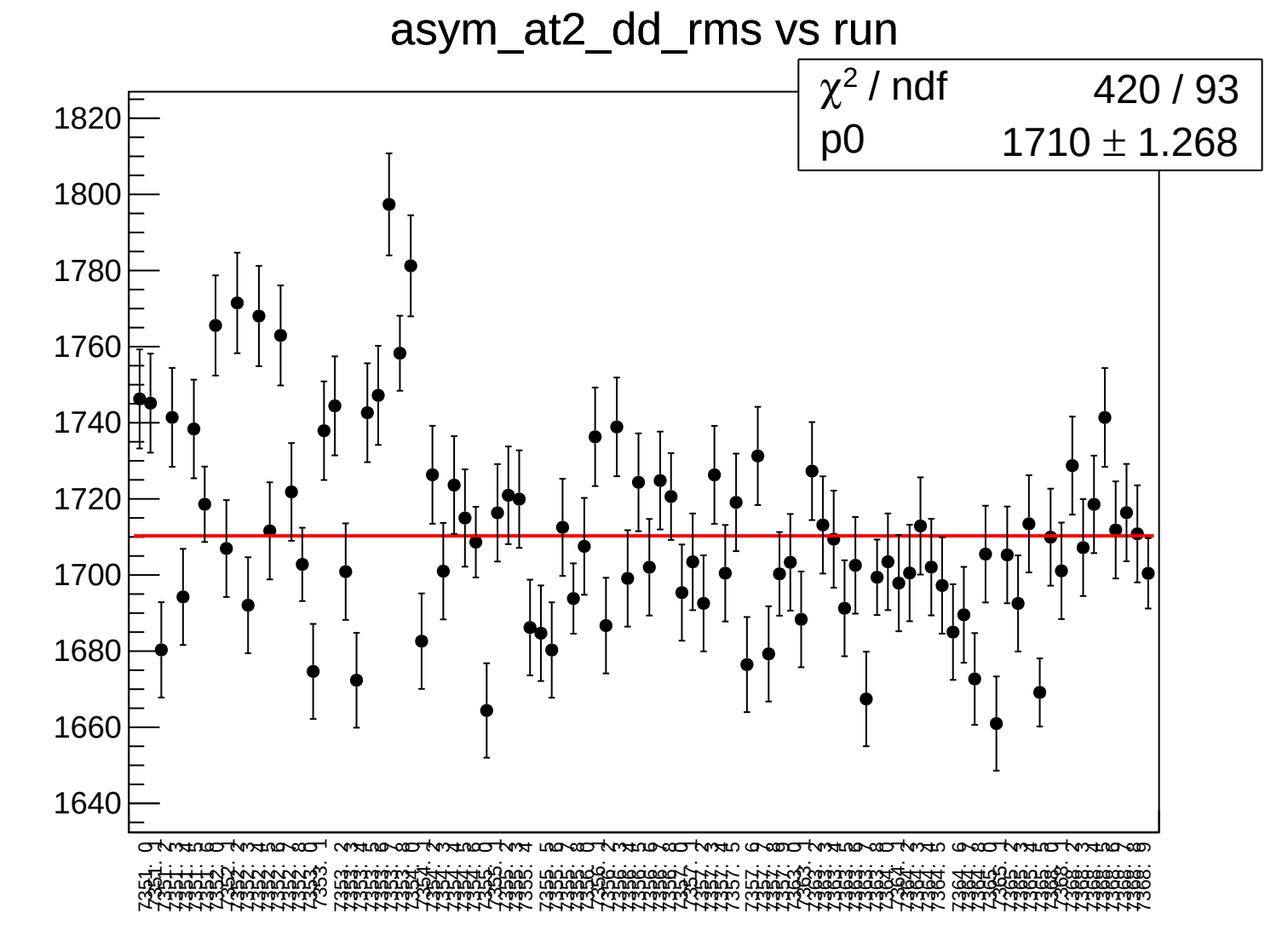

eigen_dit_asym_at2_dd_rms vs run
χ^2 / ndf 1890 / 93
p0 1727 ± 1.282
1950
1900
1850
1800
1750
1700
1650

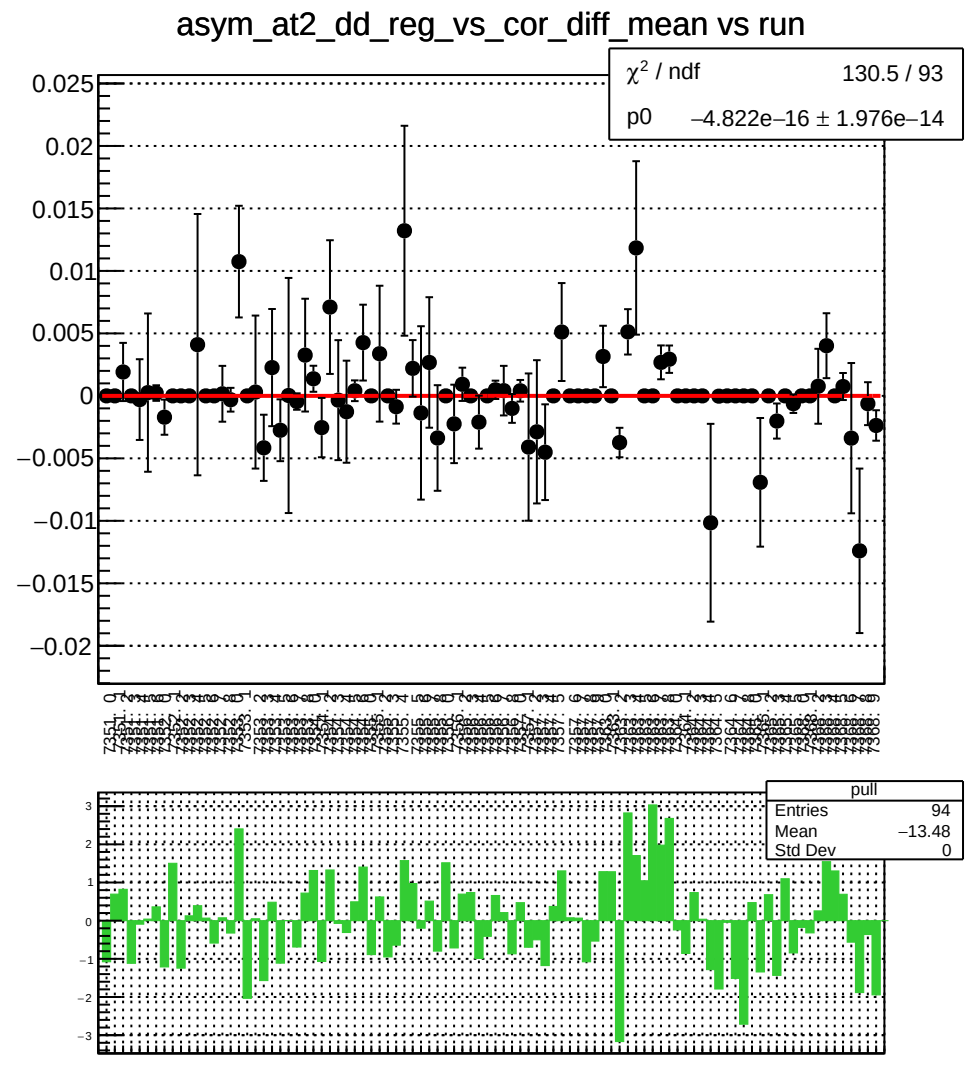

asym_at2_dd_eigen_dit_correction_mean vs run
χ² / ndf 239.4 / 93
p0 −1257 ± 825.5
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 94
Mean −228.9
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 94
Mean −0.01465
Std Dev 1.596
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

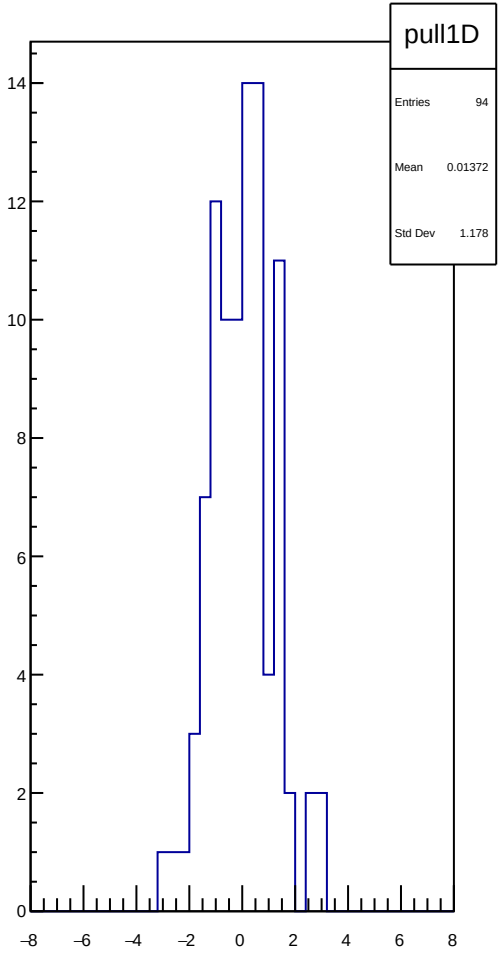

asym_at2_dd_eigen_dit_correction_rms vs run
χ² / ndf 4769 / 93
p0 786.2 ± 0.5837
900
850
800
750
700

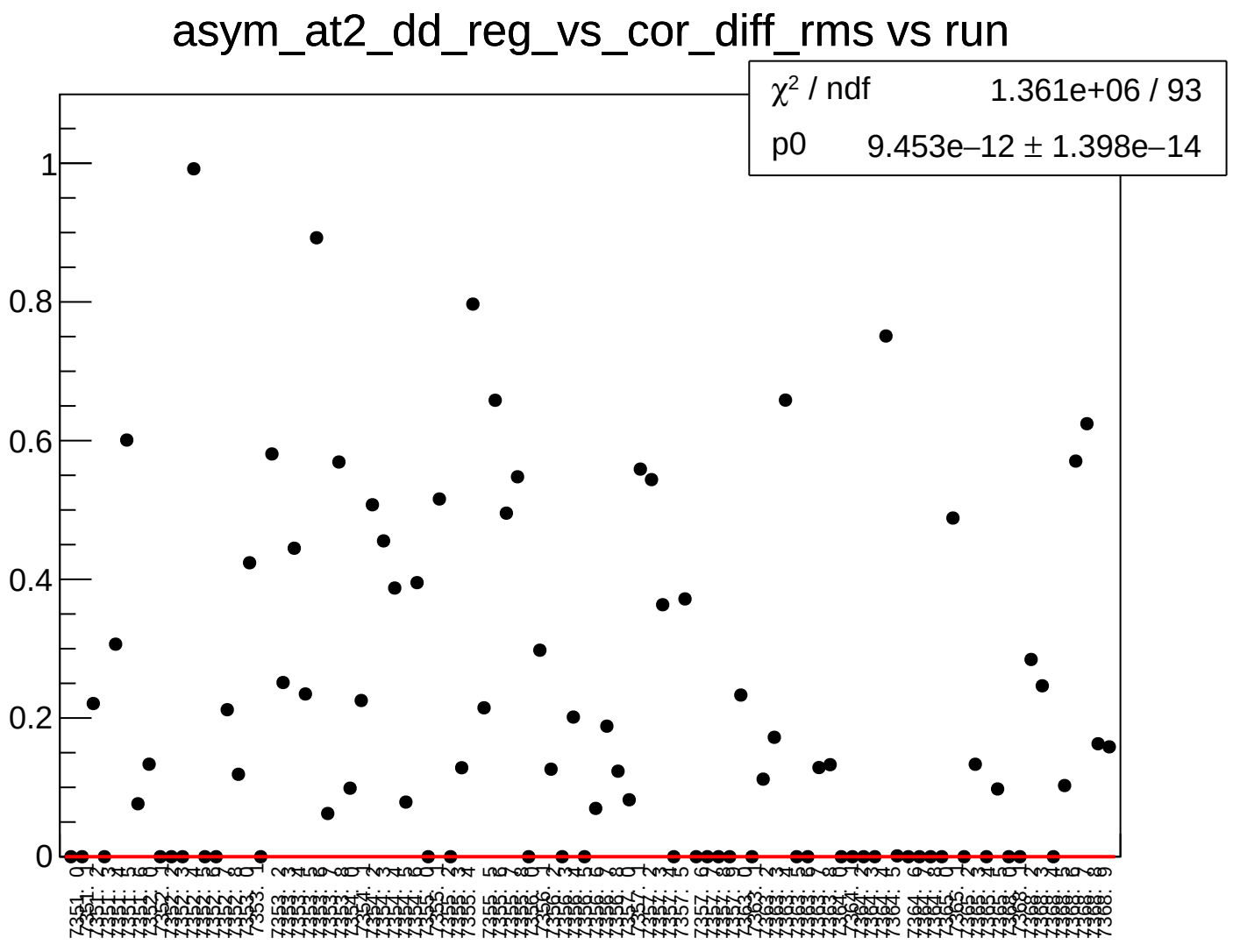

asym_at2_dd_mean vs run
χ² / ndf 96.11 / 93
p0 3537 ± 1794
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −1220
Std Dev 0
2
1
0
−1
−2
−3

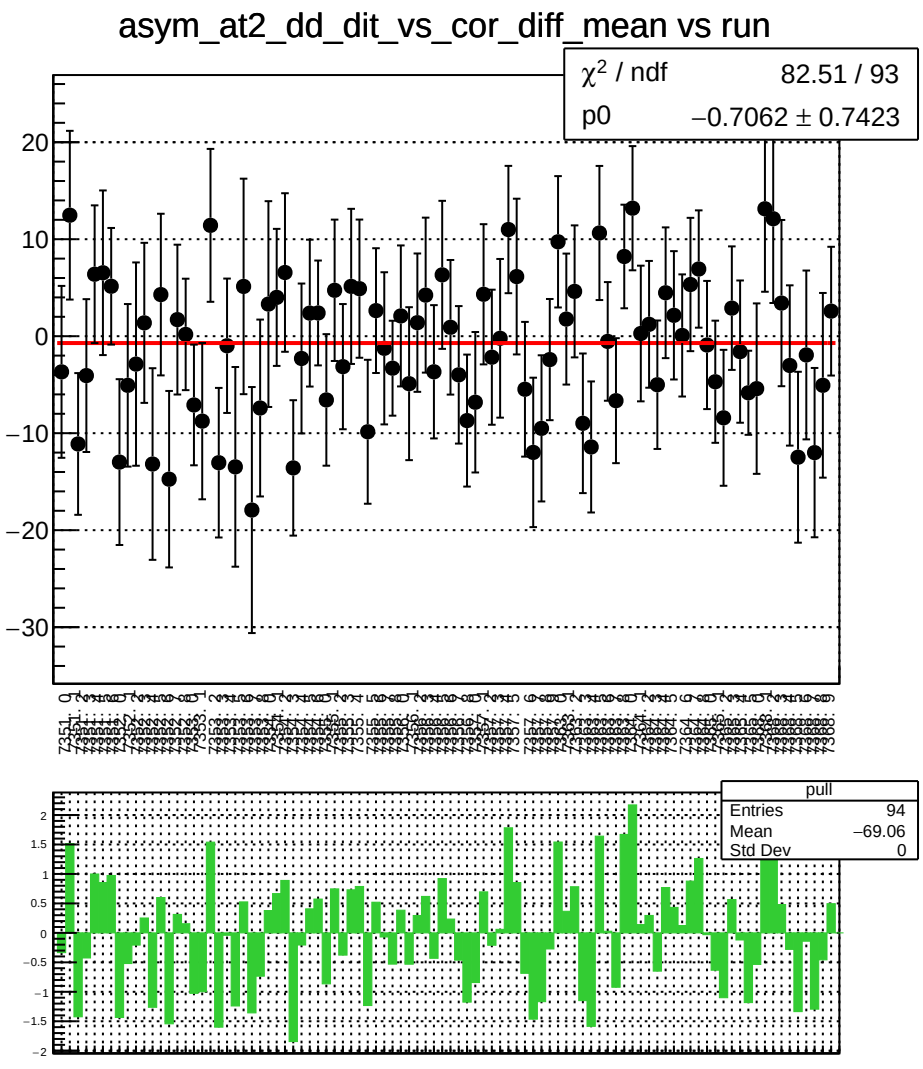

pull1D
Entries 94
Mean 0.00205
Std Dev 1.011
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

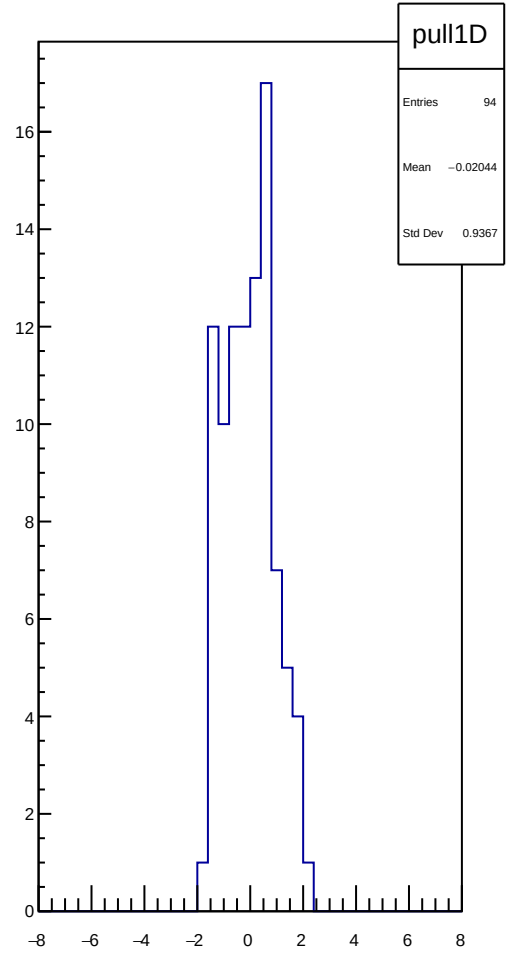

asym_at2_dd_rms vs run
χ^2 / ndf 420 / 93
p0 1710 ± 1.268
1820
1800
1780
1760
1740
1720
1700
1680
1660
1640

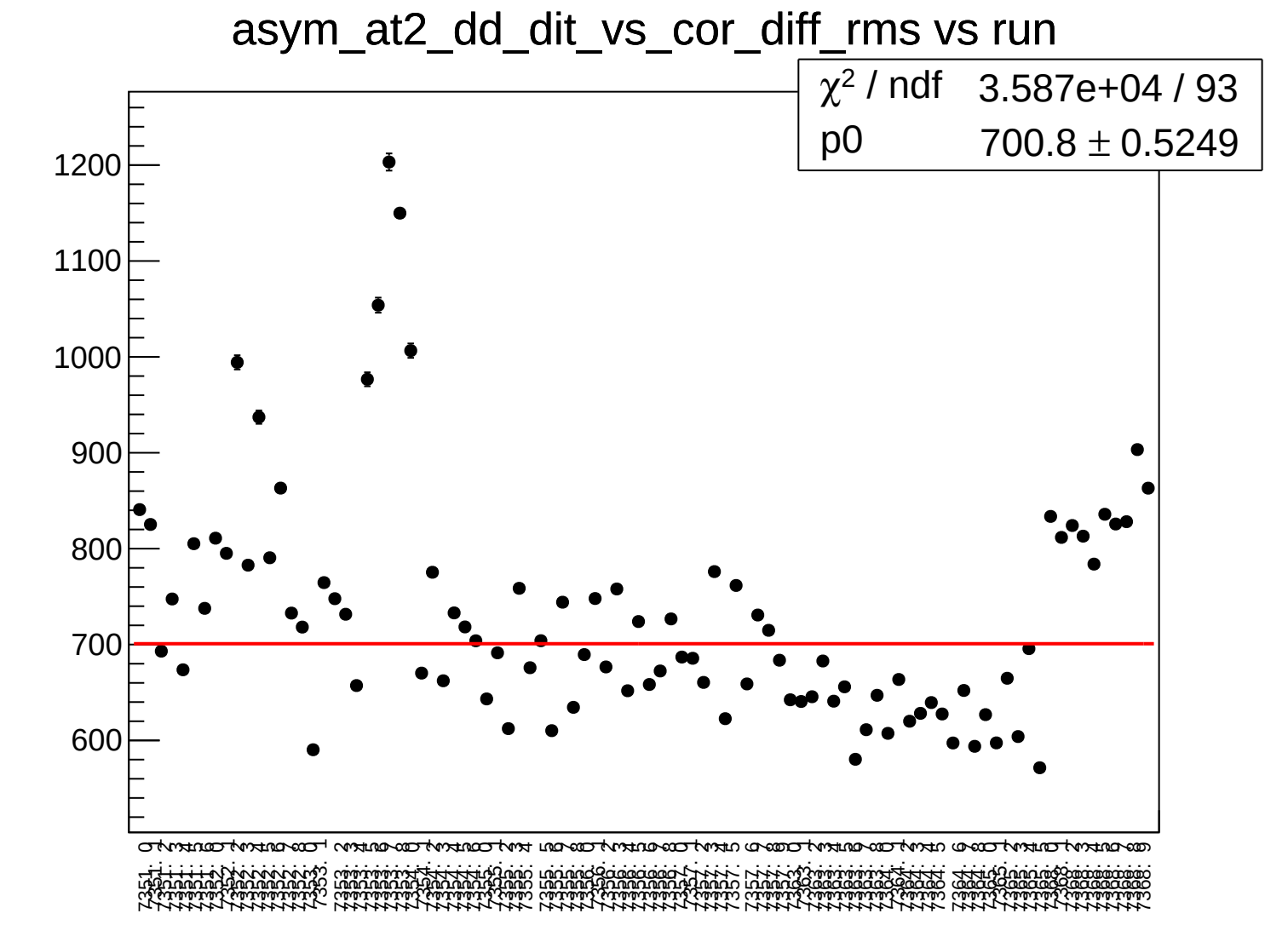

asym_at2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 130.5 / 93
p0 −4.822e−16 ± 1.976e−14
pull
Entries 94
Mean −13.48
Std Dev 0

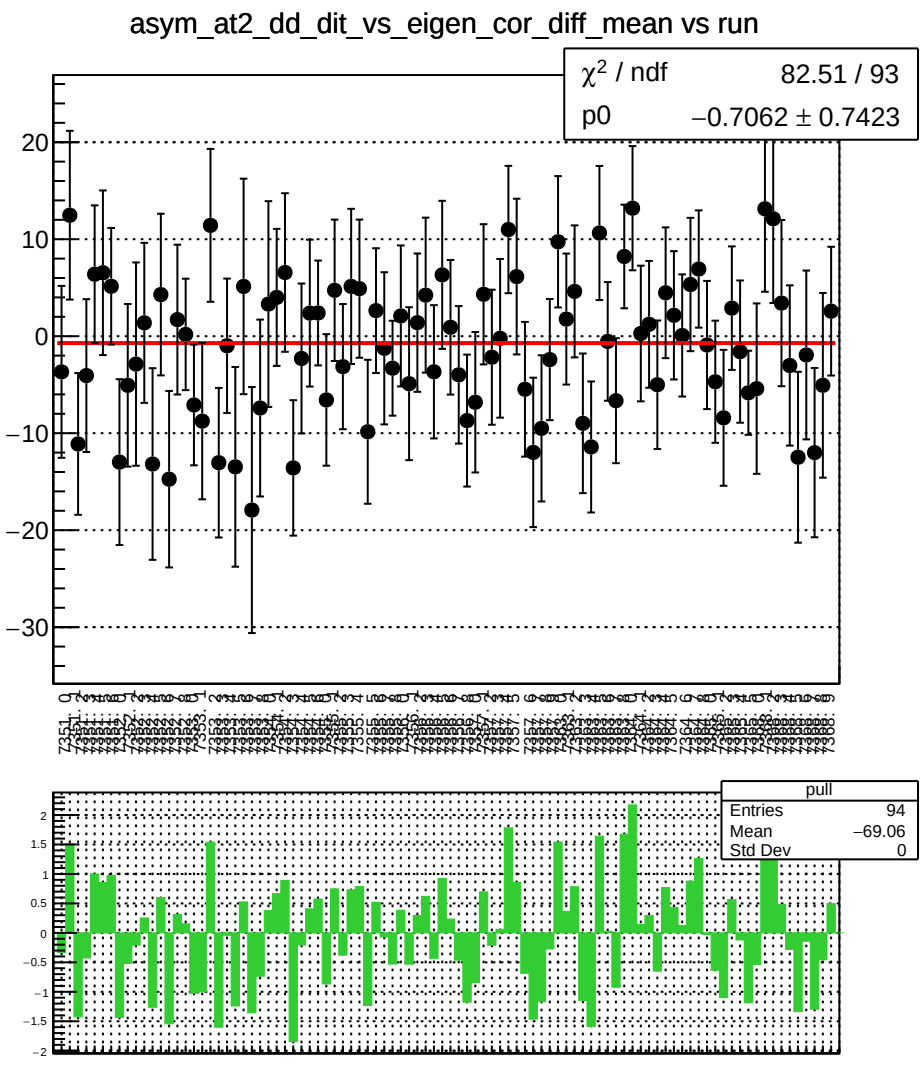

pull1D
Entries 94
Mean 0.01372
Std Dev 1.178

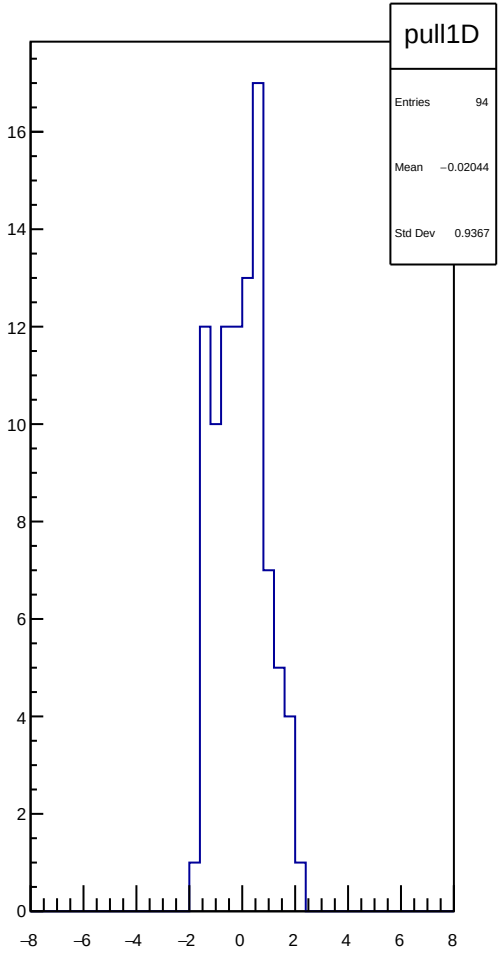

asym_at2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.361e+06 / 93
p0 9.453e−12 ± 1.398e−14
1
0.8
0.6
0.4
0.2
0

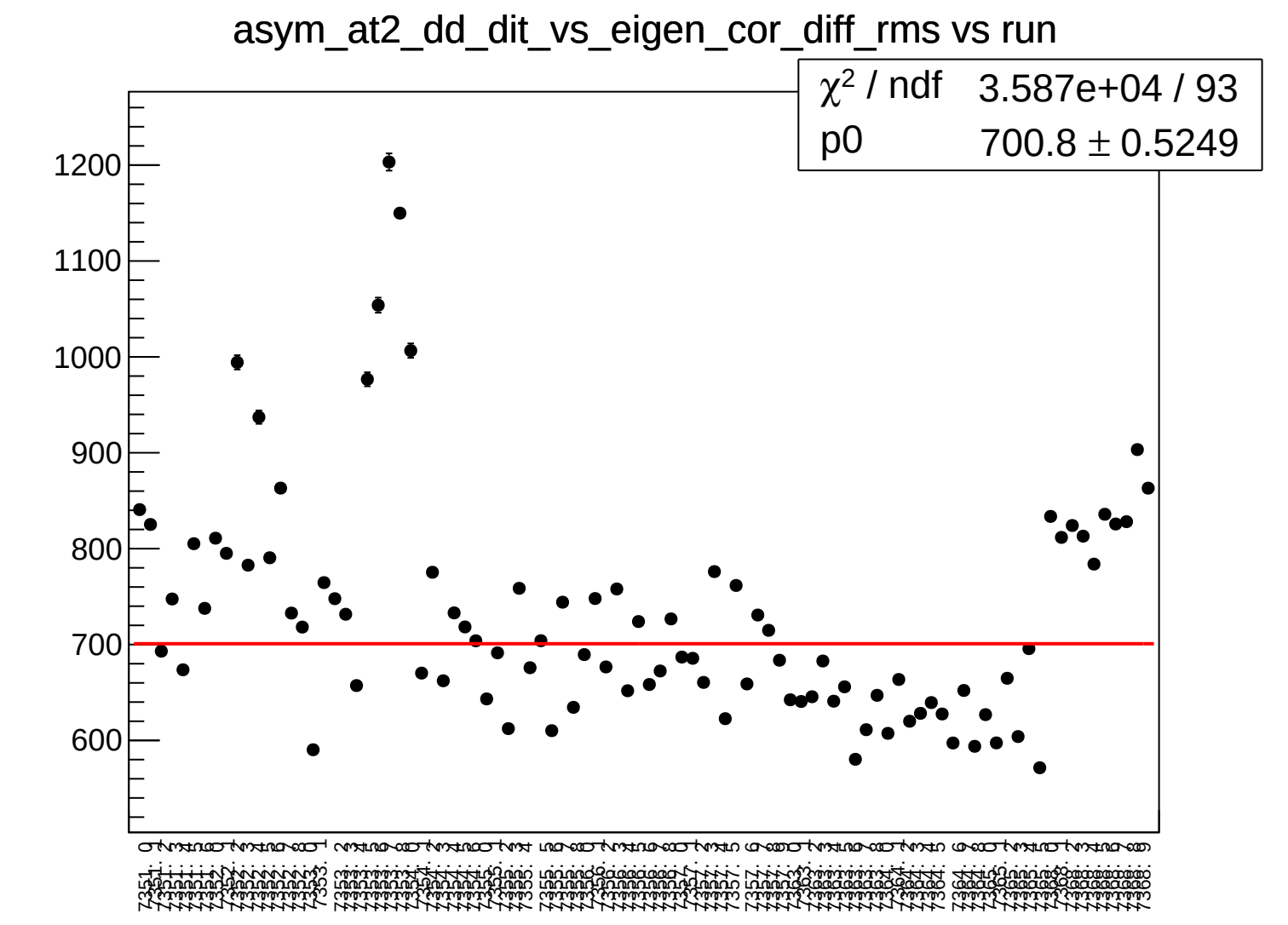

asym_at2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 82.51 / 93
p0 −0.7062 ± 0.7423
pull
Entries 94
Mean −69.06
Std Dev 0

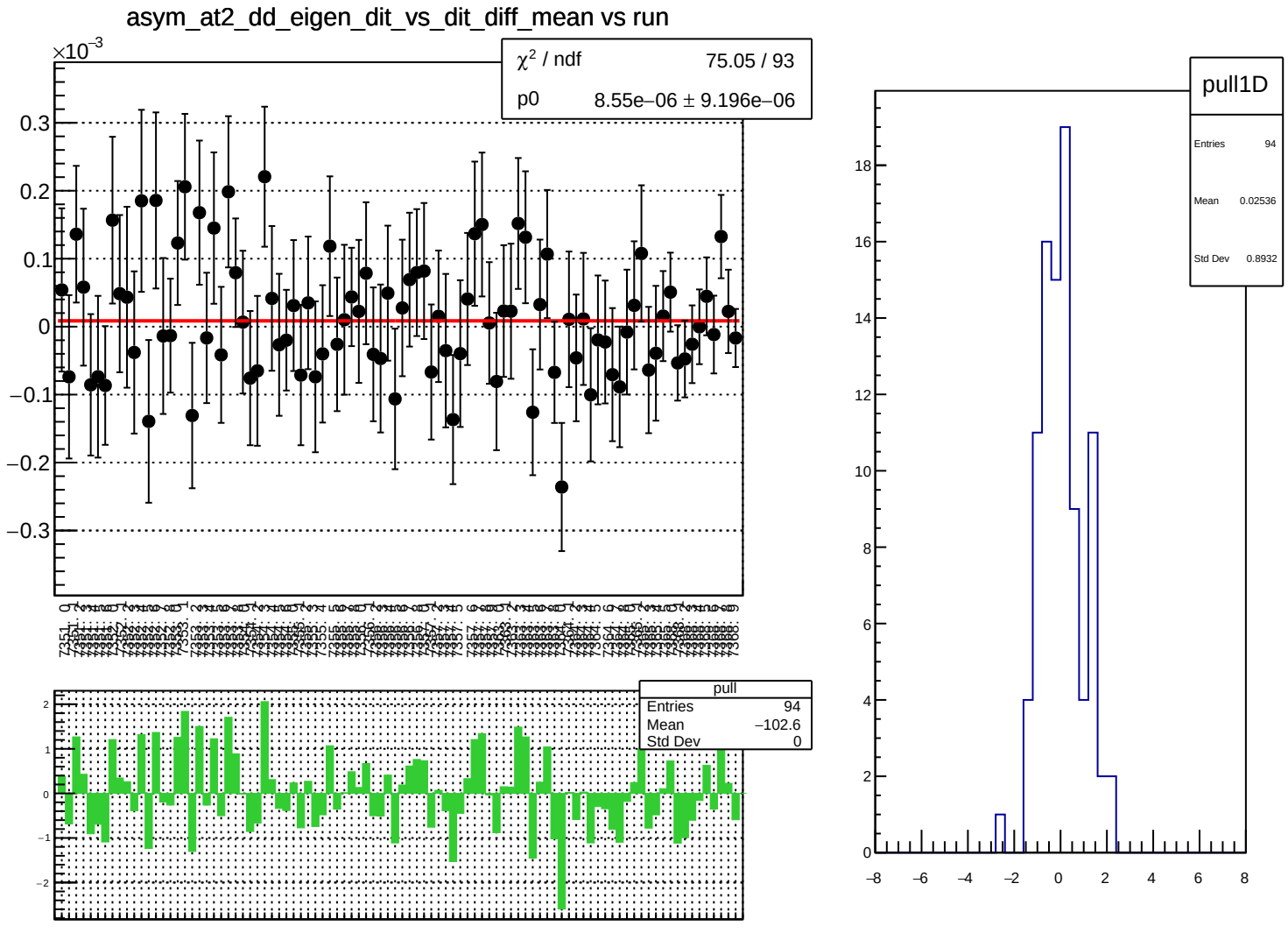

pull1D
Entries 94
Mean −0.02044
Std Dev 0.9367

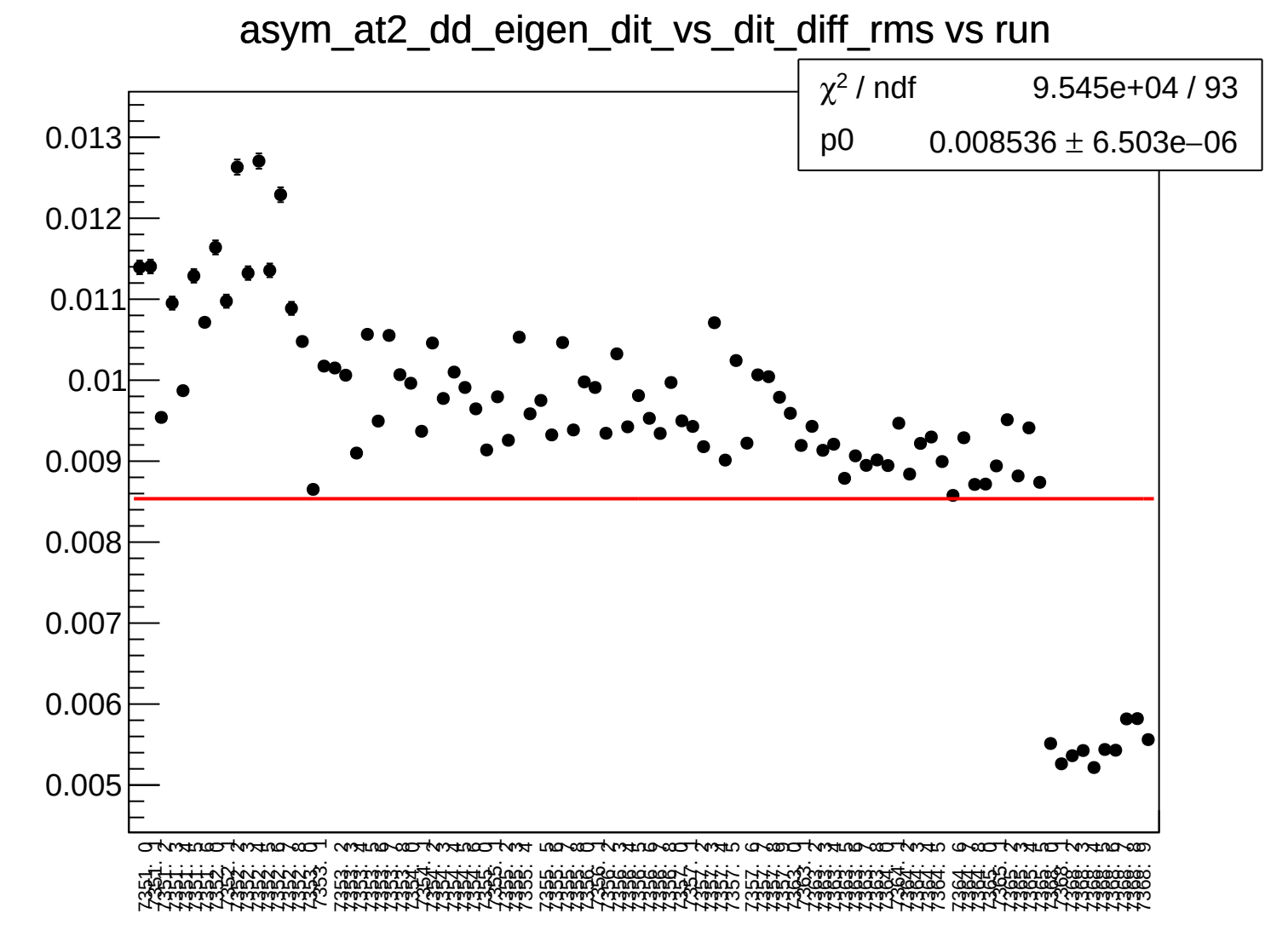

asym_at2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.587e+04 / 93
p0 700.8 ± 0.5249
1200
1100
1000
900
800
700
600

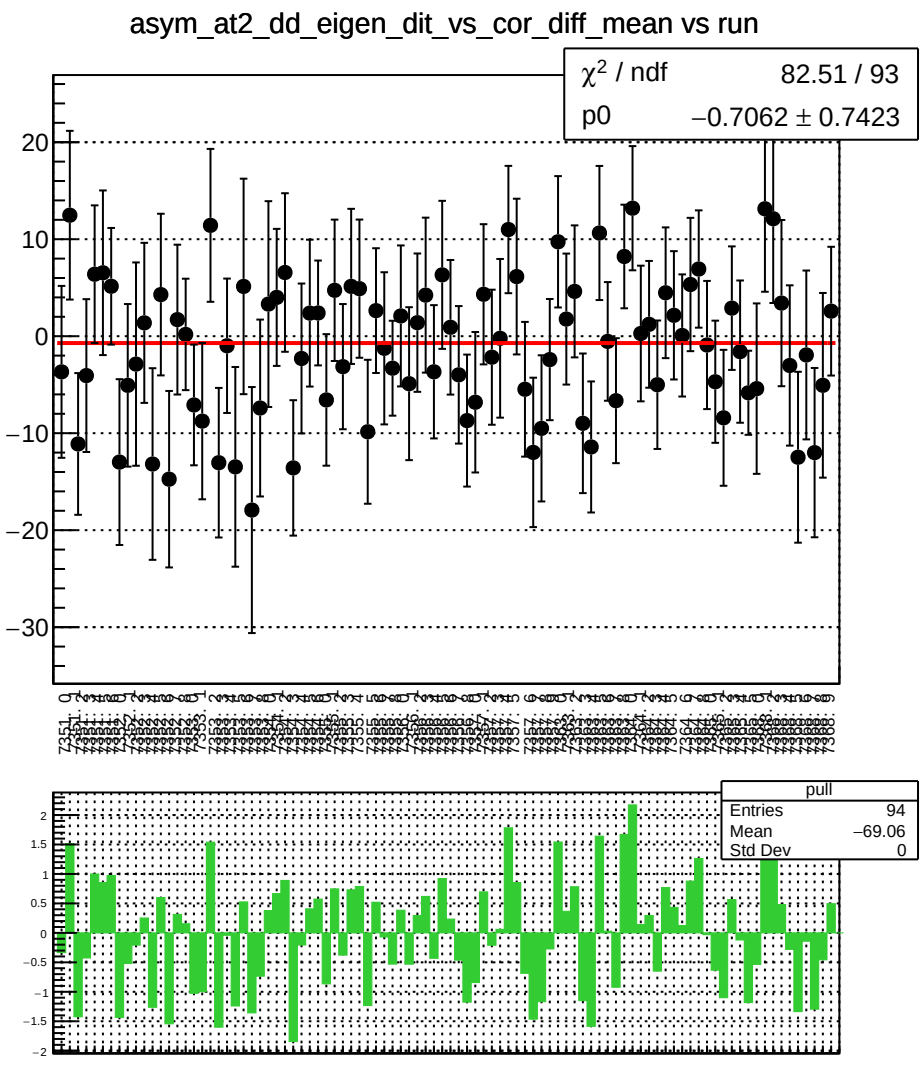

asym_at2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.51 / 93
p0 −0.7062 ± 0.7423
pull
Entries 94
Mean −69.06
Std Dev 0

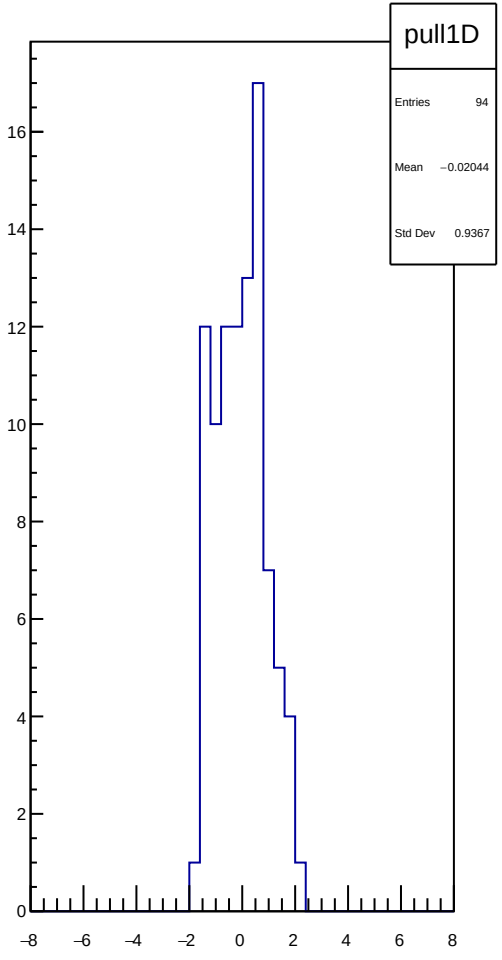

pull1D
Entries 94
Mean −0.02044
Std Dev 0.9367

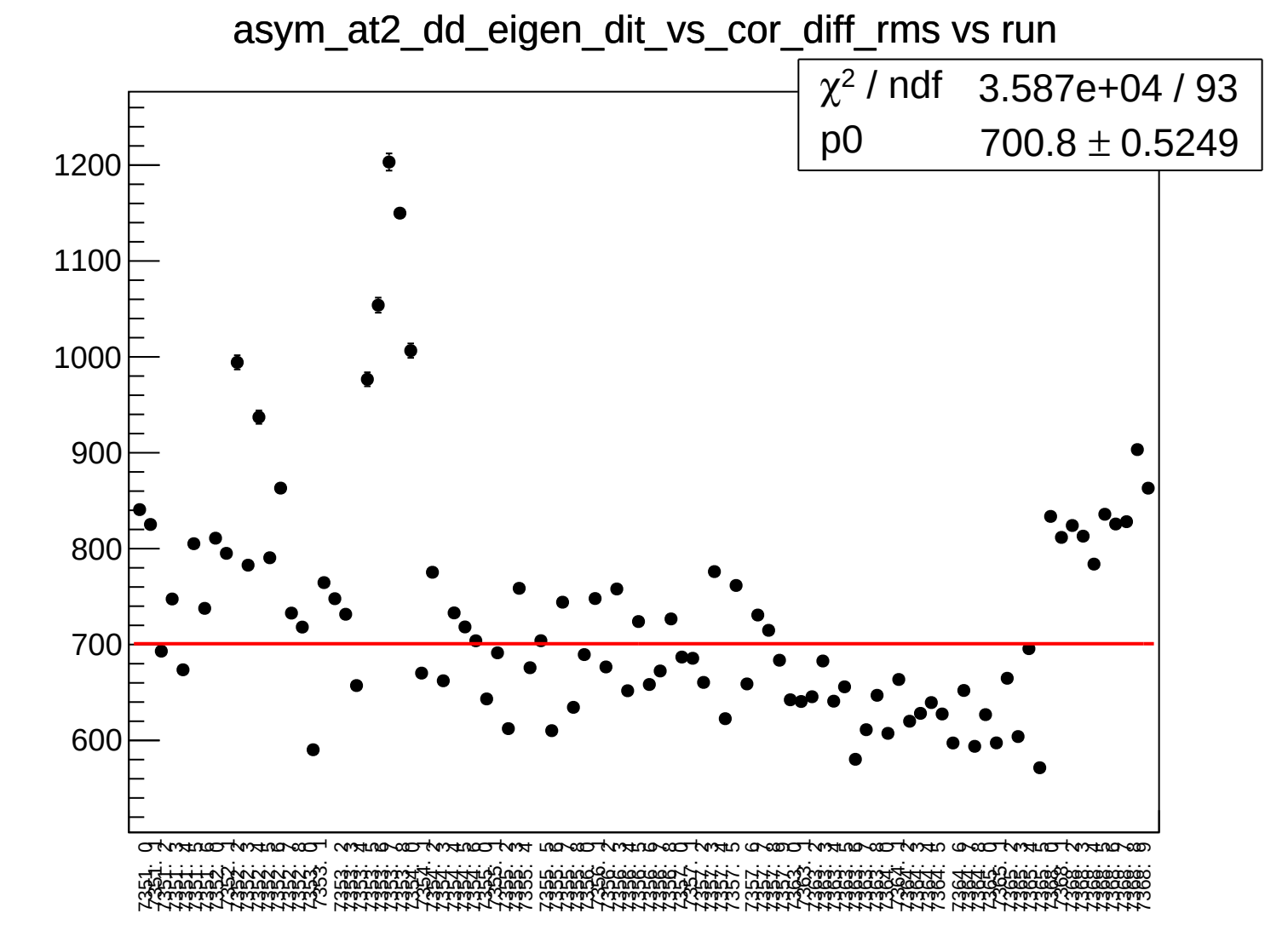

asym_at2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.587e+04 / 93
p0 700.8 ± 0.5249
1200
1100
1000
900
800
700
600

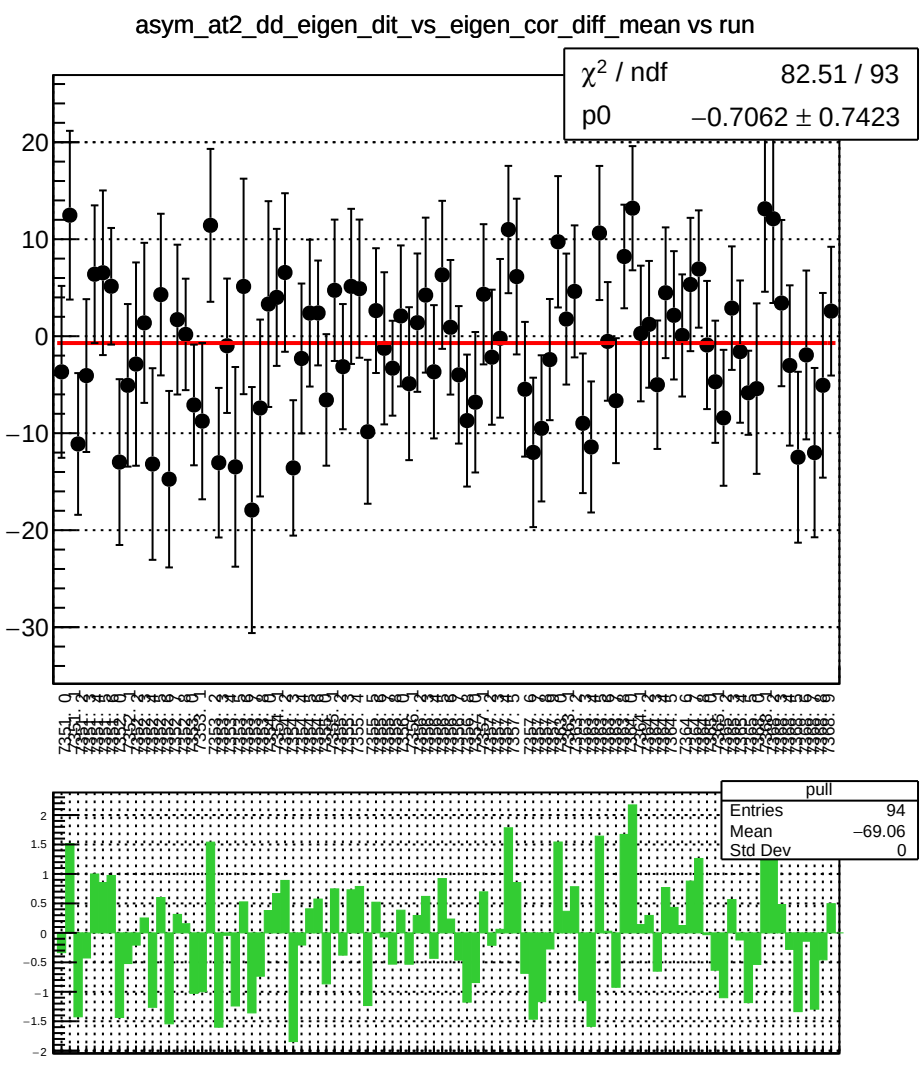

asym_at2_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 75.05 / 93
p0 8.55e−06 ± 9.196e−06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 94
Mean −102.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.02536
Std Dev 0.8932
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

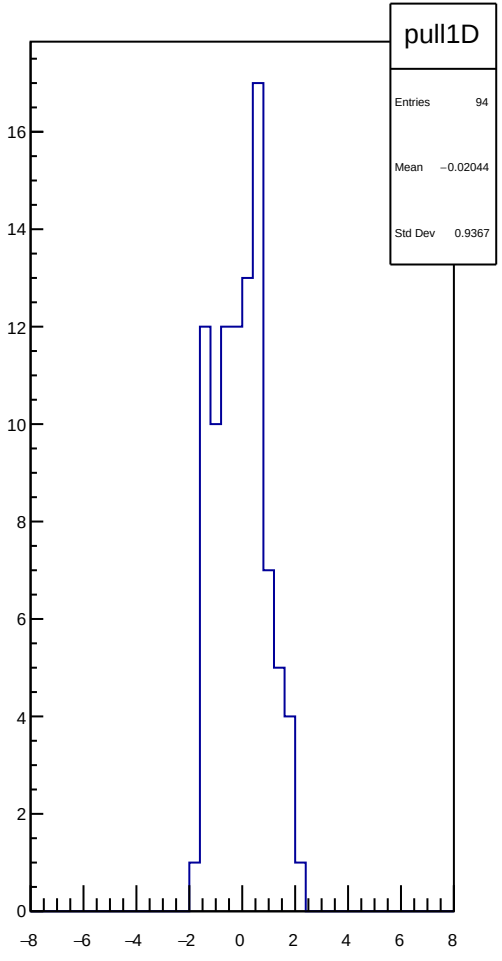

asym_at2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.545e+04 / 93
p0 0.008536 ± 6.503e−06
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005

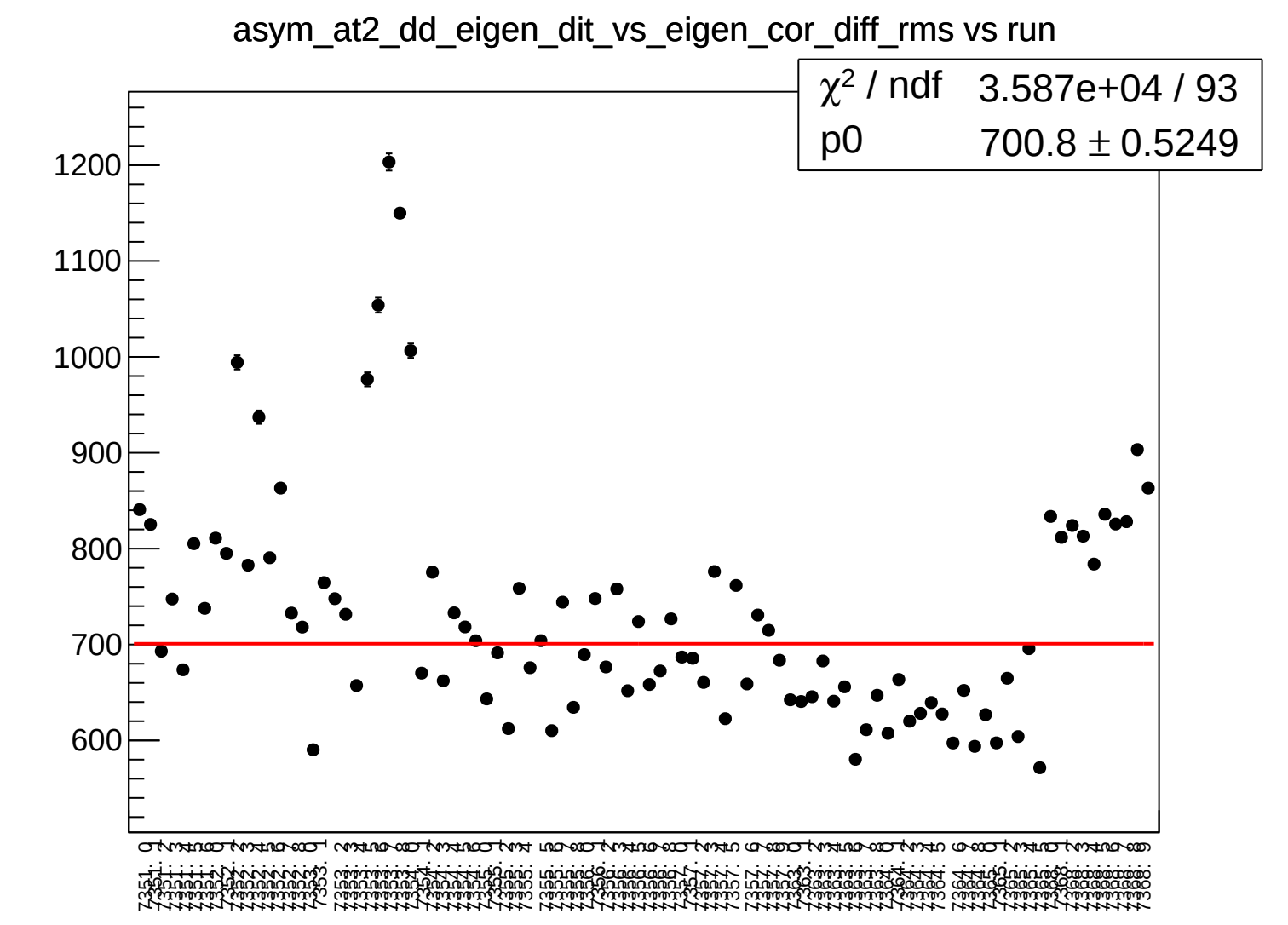

asym_at2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.51 / 93
p0 −0.7062 ± 0.7423
pull
Entries 94
Mean −69.06
Std Dev 0

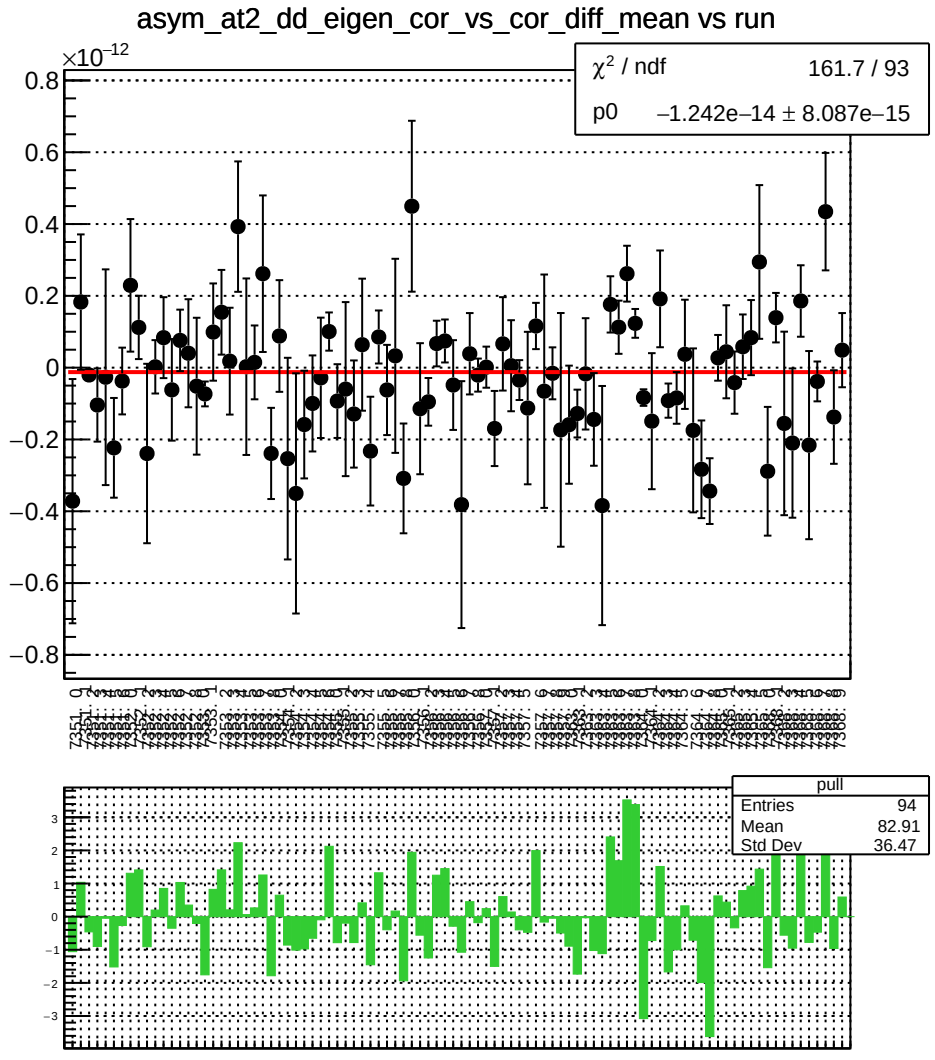

pull1D
Entries 94
Mean −0.02044
Std Dev 0.9367

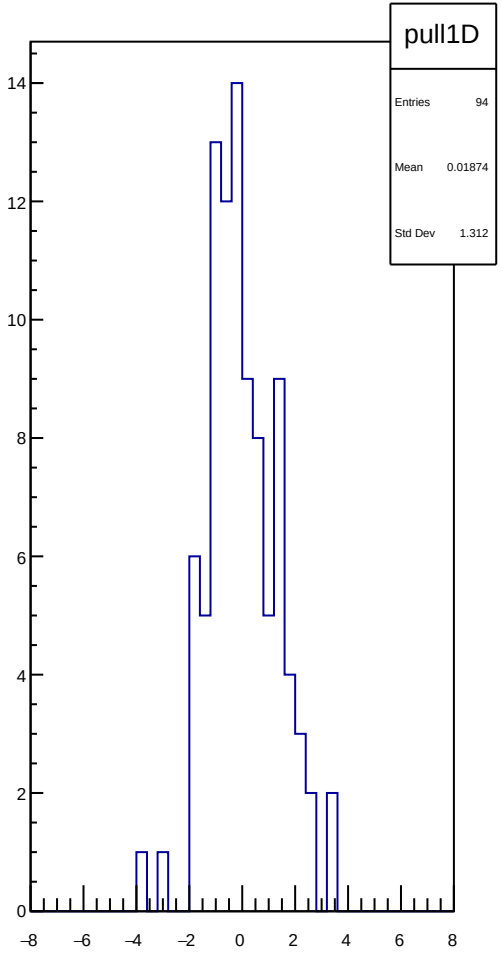

asym_at2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.587e+04 / 93
p0 700.8 ± 0.5249
1200
1100
1000
900
800
700
600

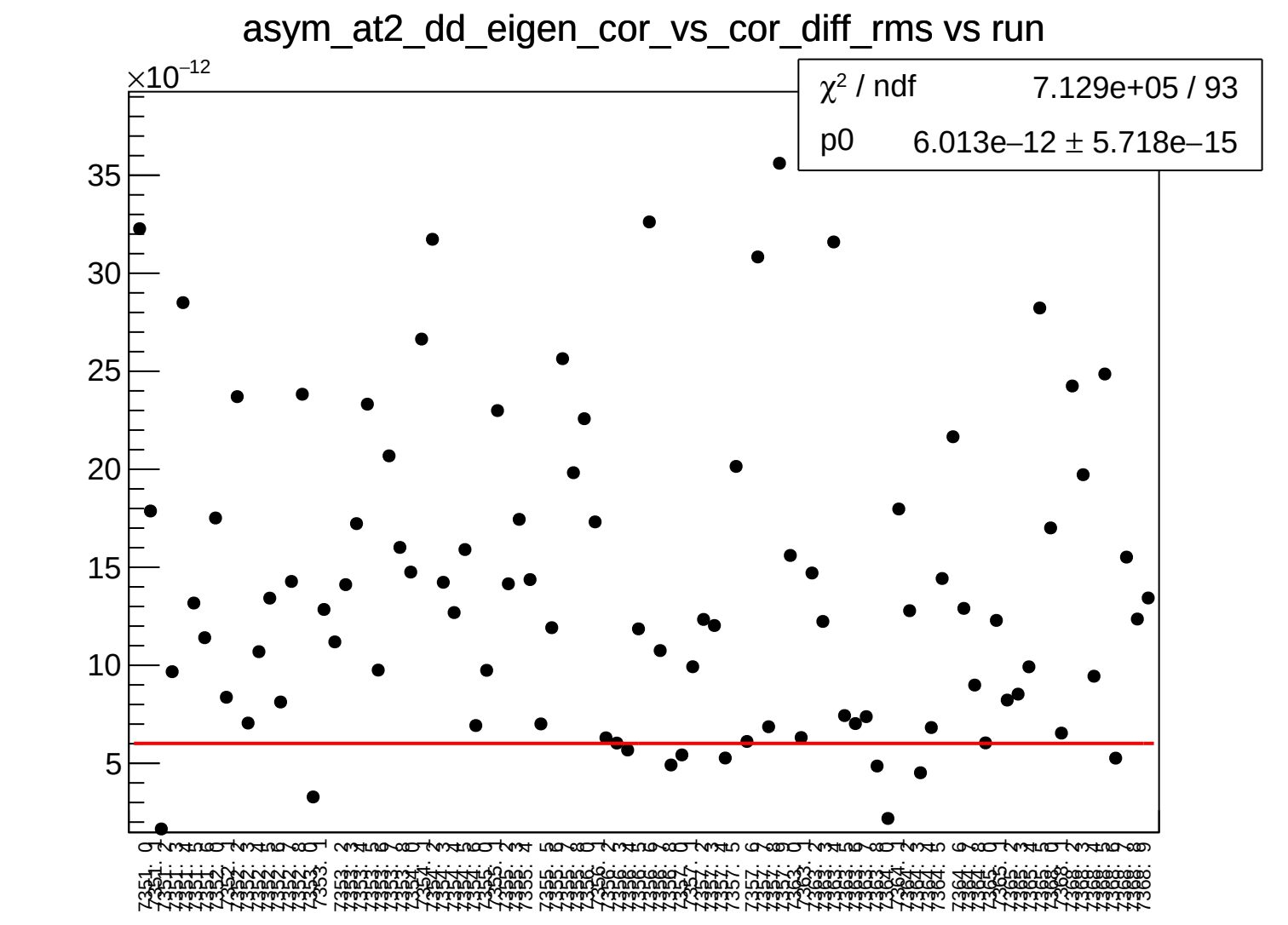

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.51 / 93
p0 −0.7062 ± 0.7423
pull
Entries 94
Mean −69.06
Std Dev 0

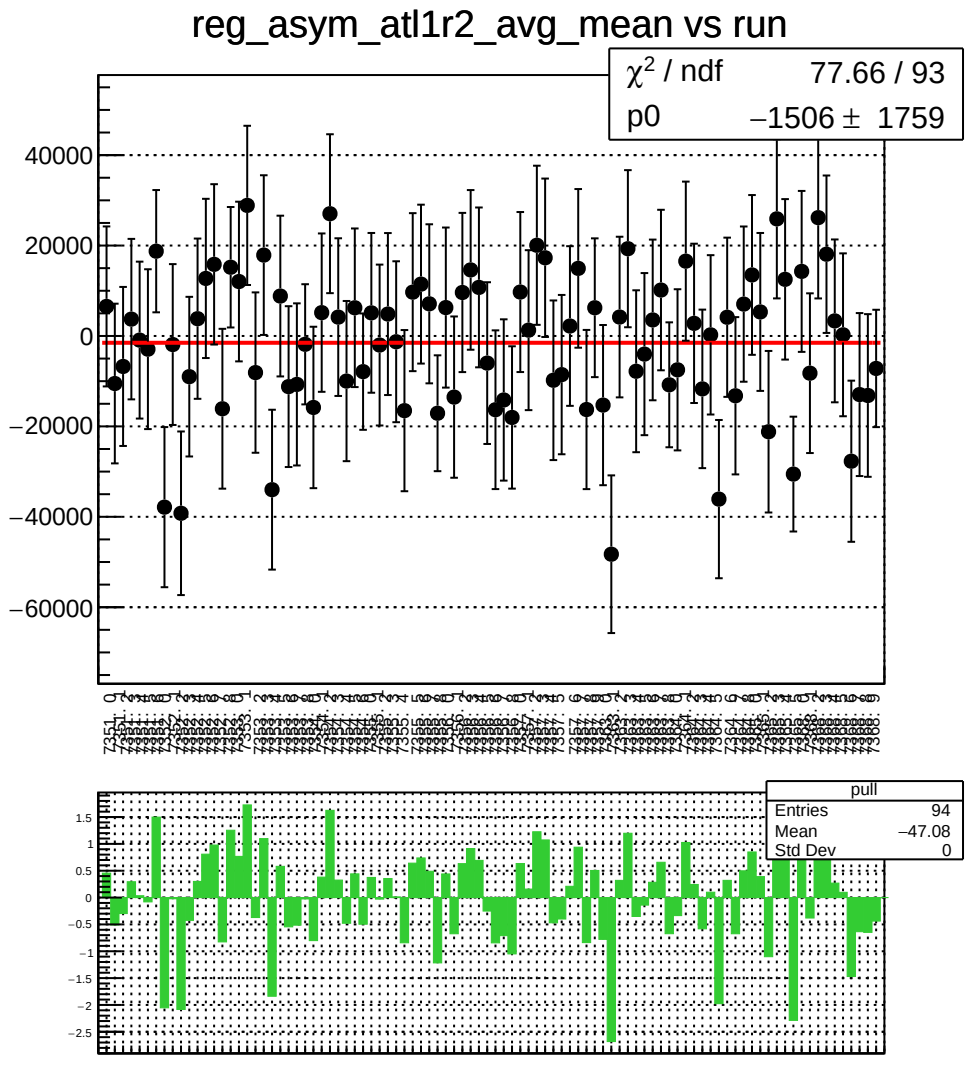

pull1D
Entries 94
Mean −0.02044
Std Dev 0.9367

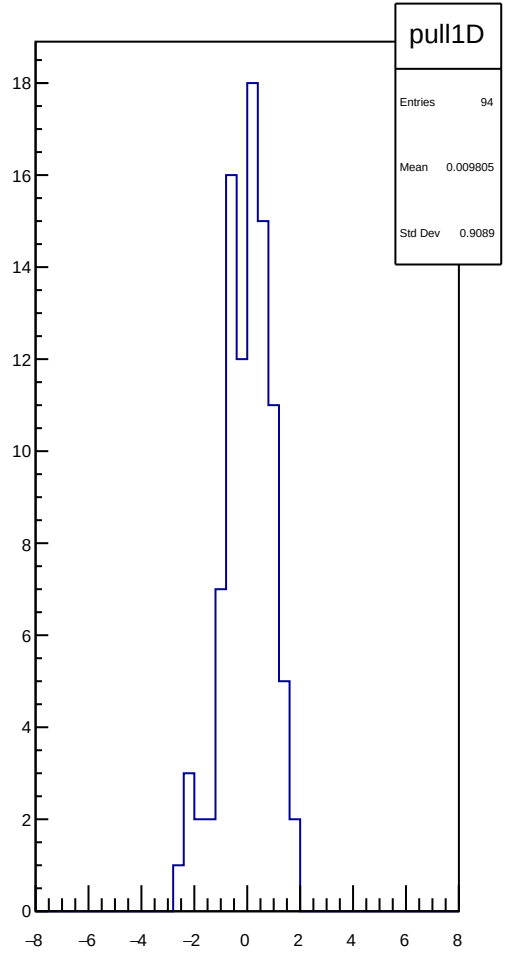

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.587e+04 / 93
p0 700.8 ± 0.5249
1200
1100
1000
900
800
700
600

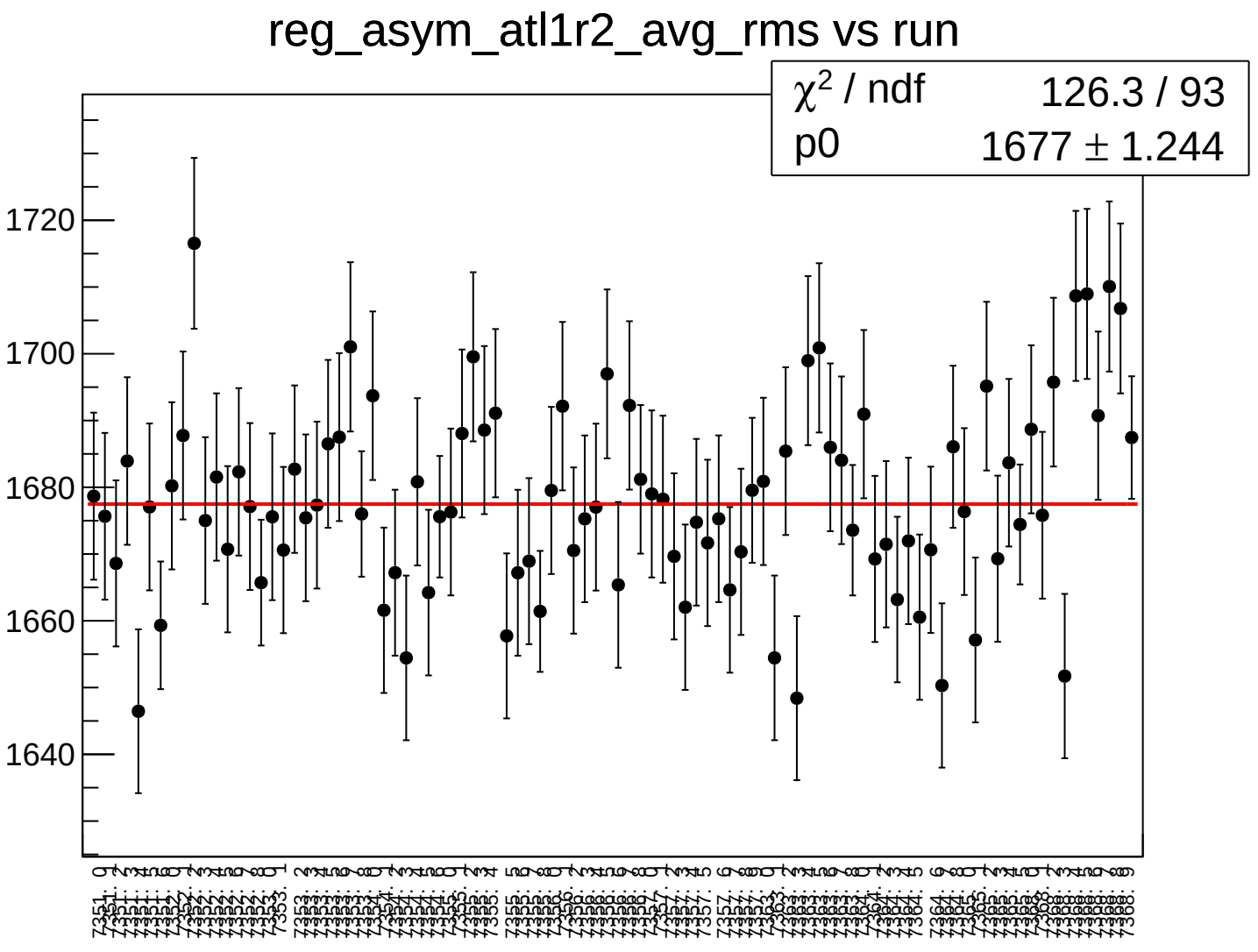

asym_at2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 161.7 / 93
p0 −1.242e−14 ± 8.087e−15
pull
Entries 94
Mean 82.91
Std Dev 36.47

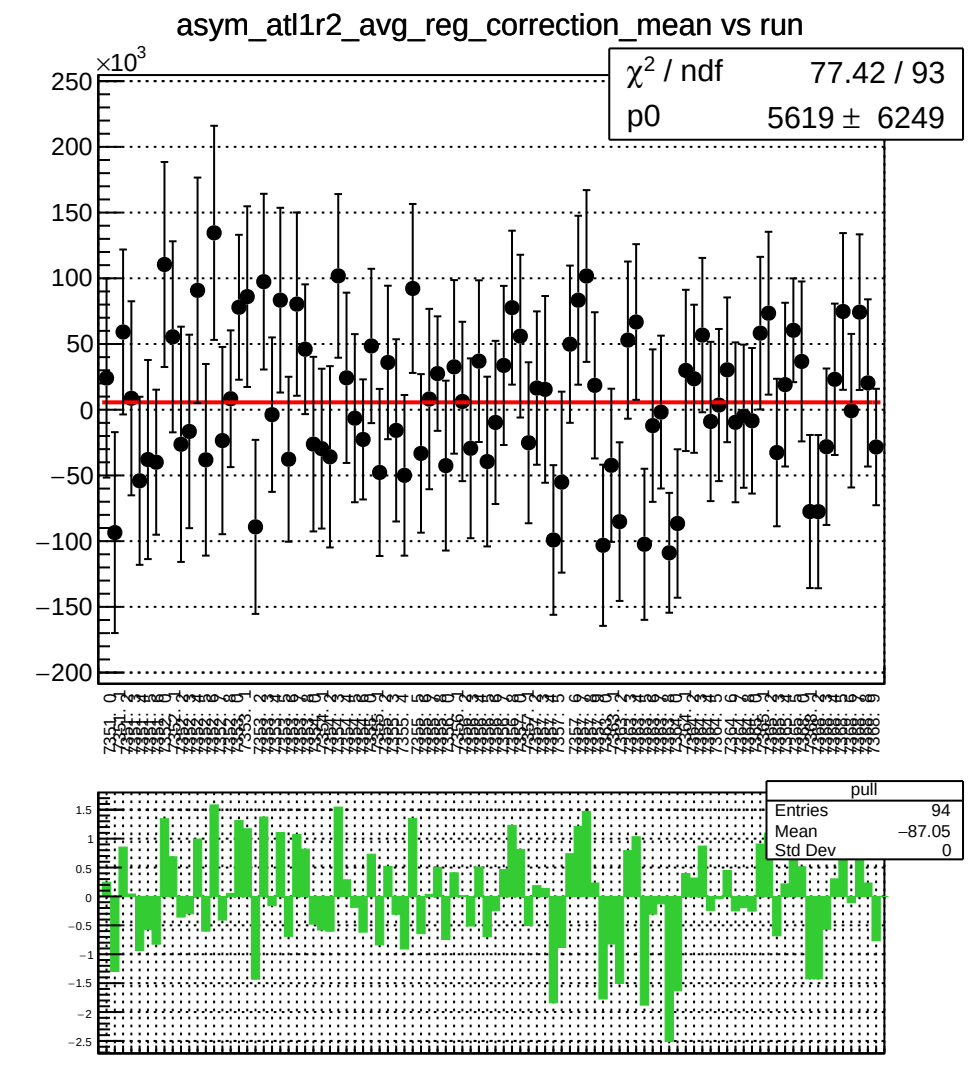

pull1D
Entries 94
Mean 0.01874
Std Dev 1.312

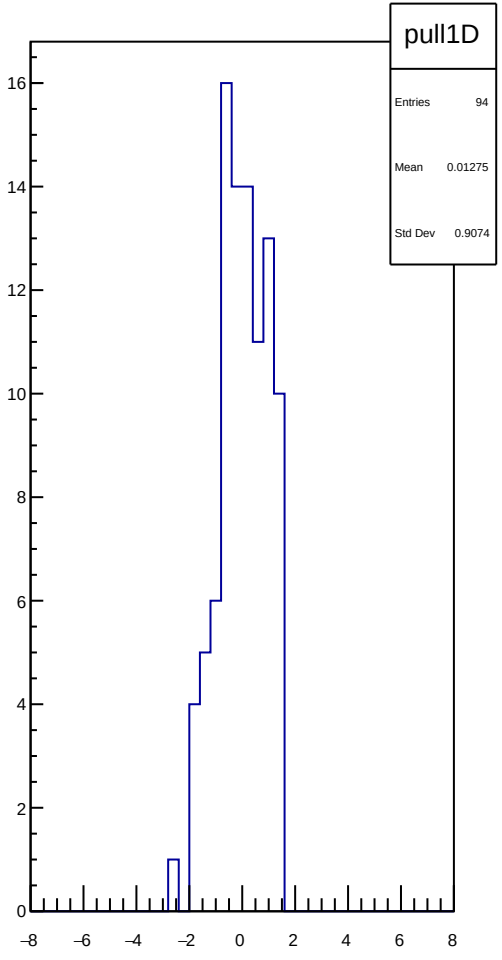

asym_at2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.129e+05 / 93
p0 6.013e−12 ± 5.718e−15
35
30
25
20
15
10
5

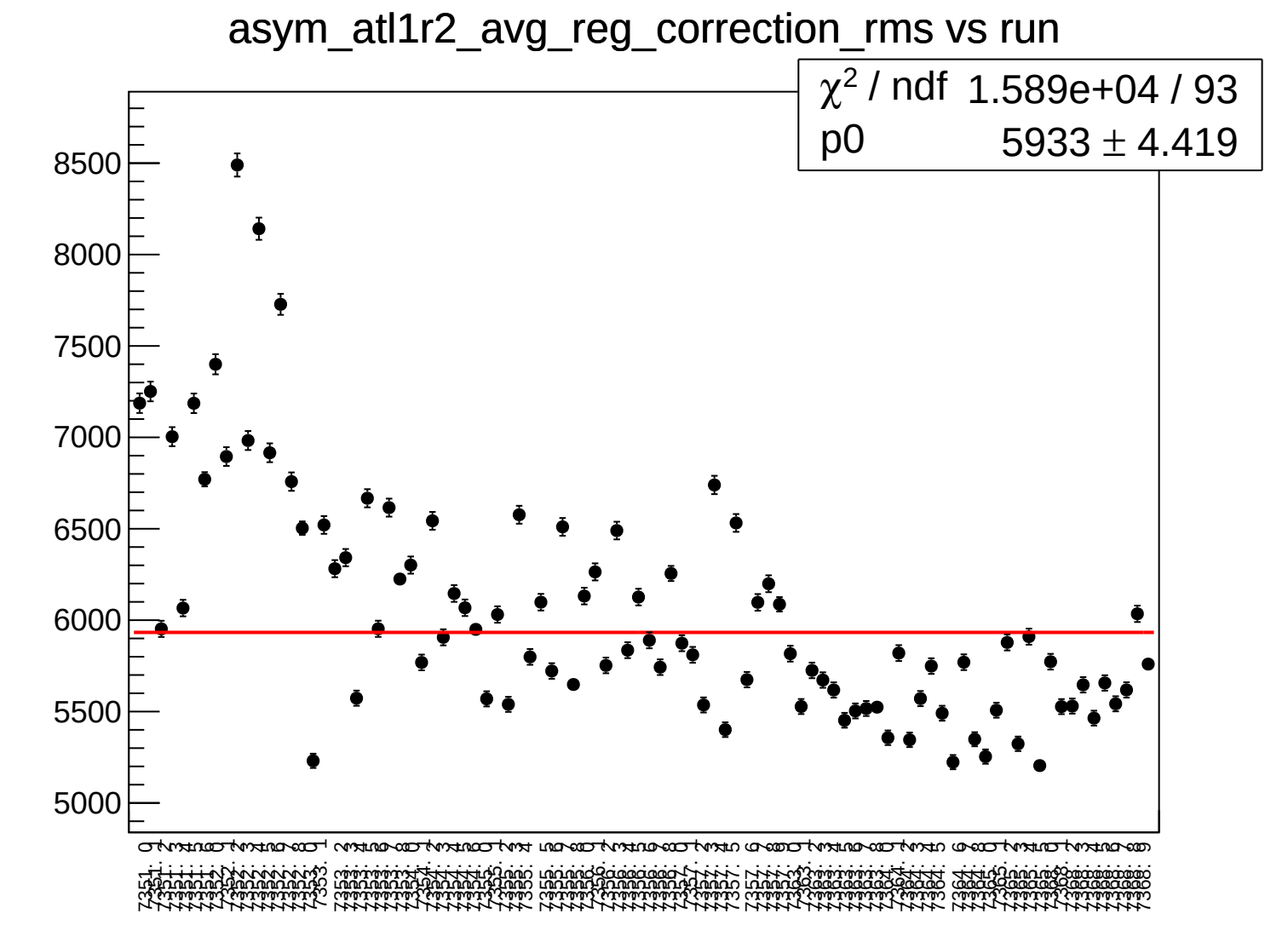

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 77.66 / 93
p0 −1506 ± 1759
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −47.08
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

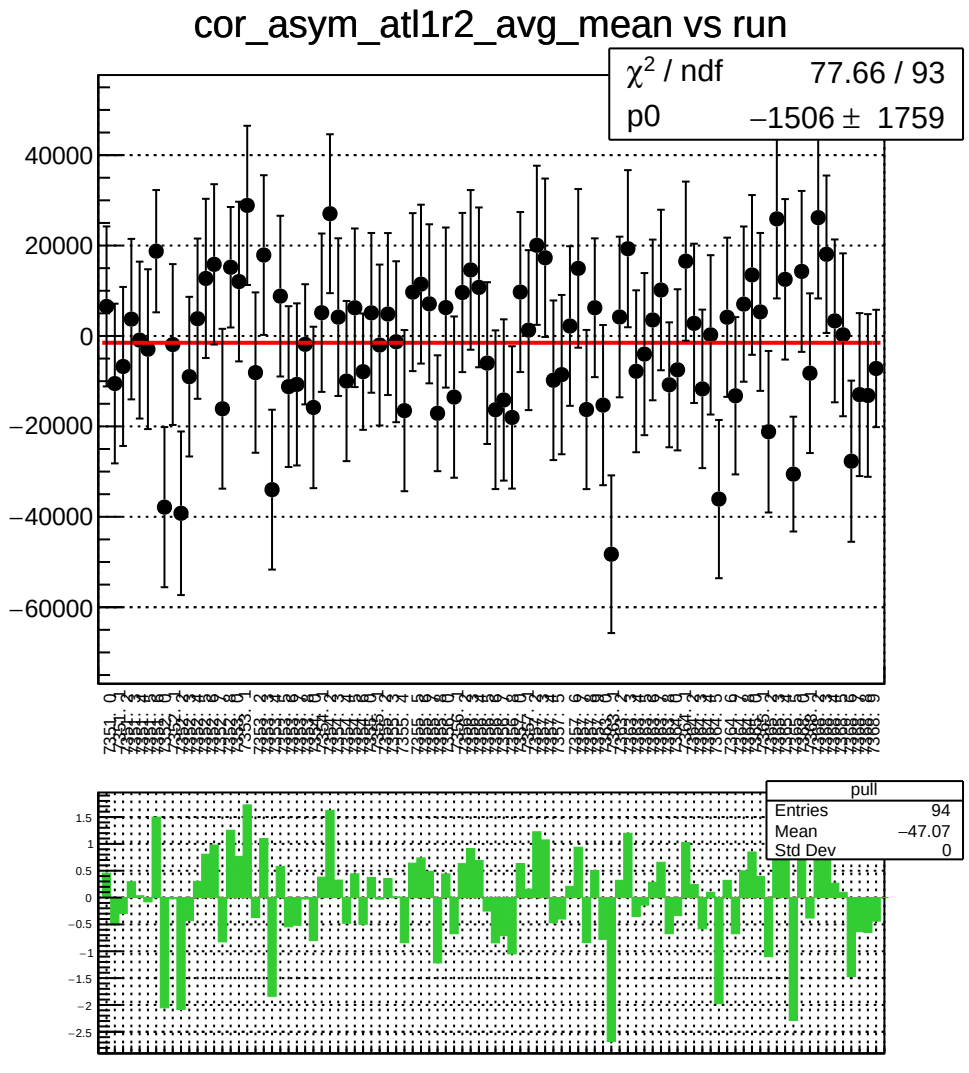

pull1D
Entries 94
Mean 0.009805
Std Dev 0.9089
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

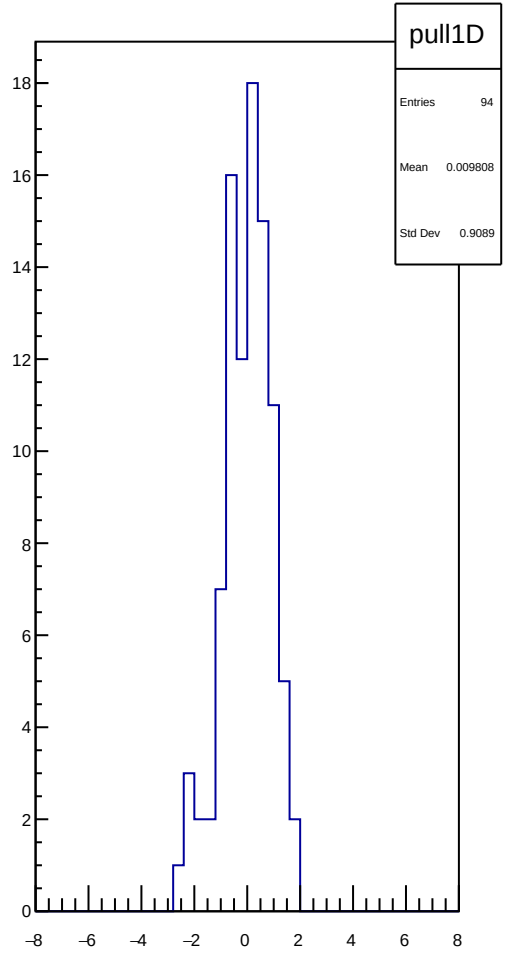

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 126.3 / 93
p0 1677 ± 1.244
1720
1700
1680
1660
1640

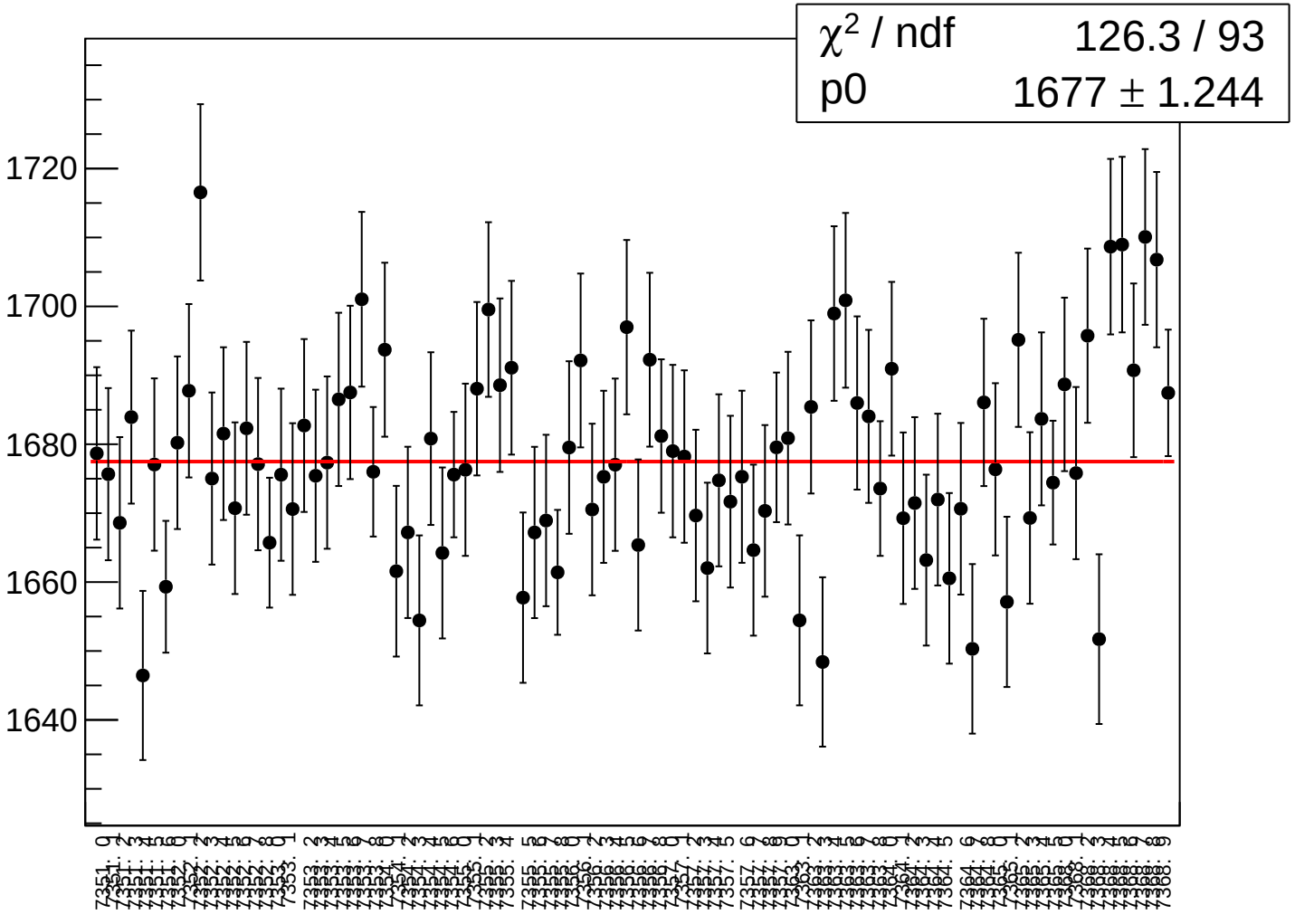

asym_atl1r2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 77.42 / 93
p0 5619 ± 6249
pull
Entries 94
Mean −87.05
Std Dev 0

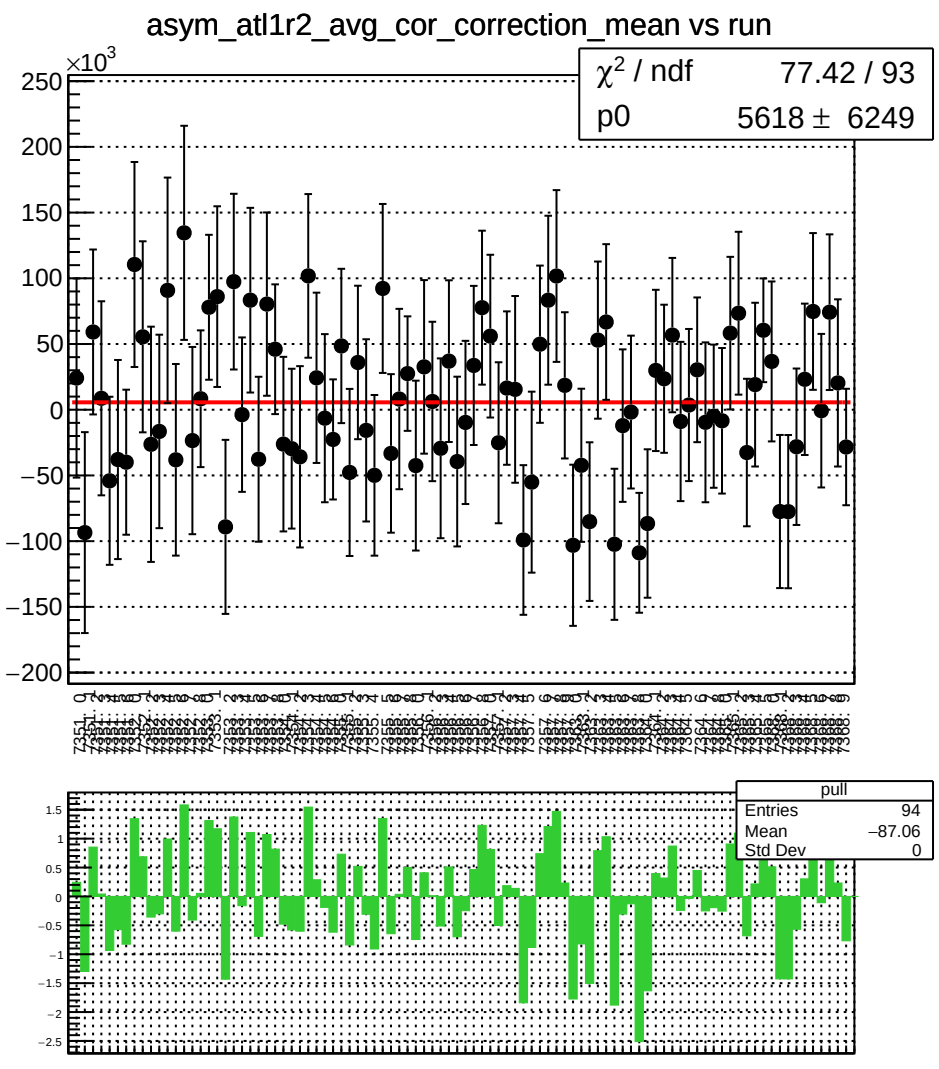

pull1D
Entries 94
Mean 0.01275
Std Dev 0.9074

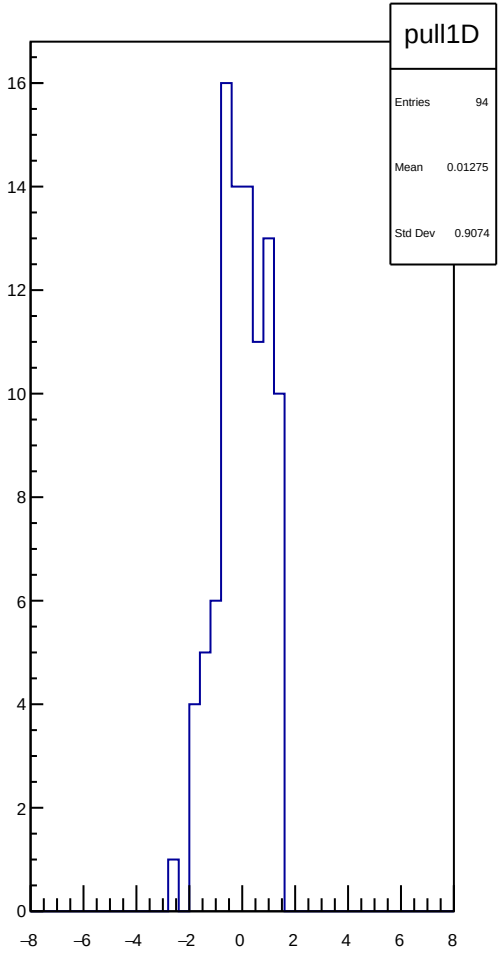

asym_atl1r2_avg_reg_correction_rms vs run
χ² / ndf 1.589e+04 / 93
p0 5933 ± 4.419
8500
8000
7500
7000
6500
6000
5500
5000

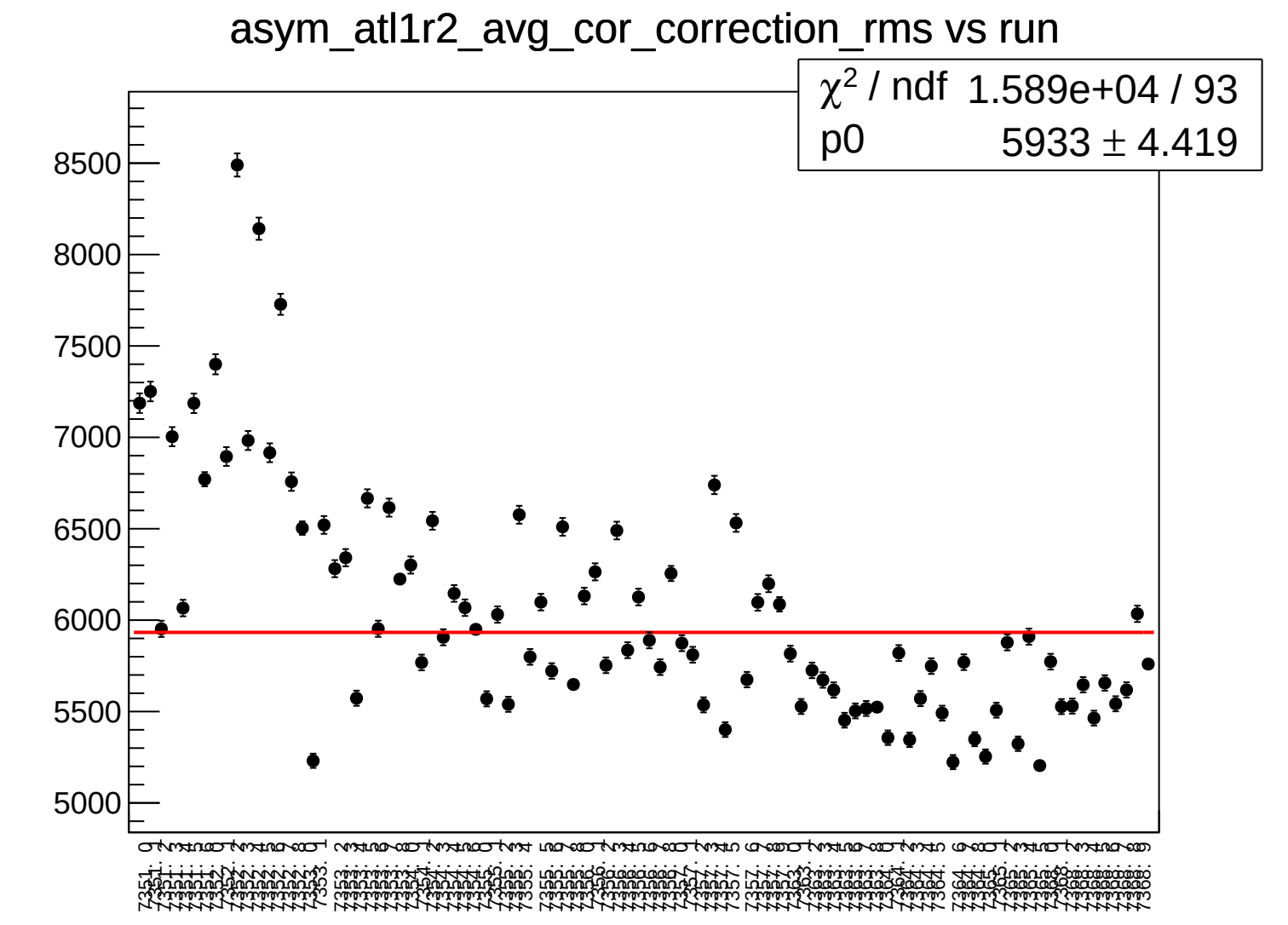

cor_asym_atl1r2_avg_mean vs run
χ² / ndf 77.66 / 93
p0 −1506 ± 1759
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −47.07
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

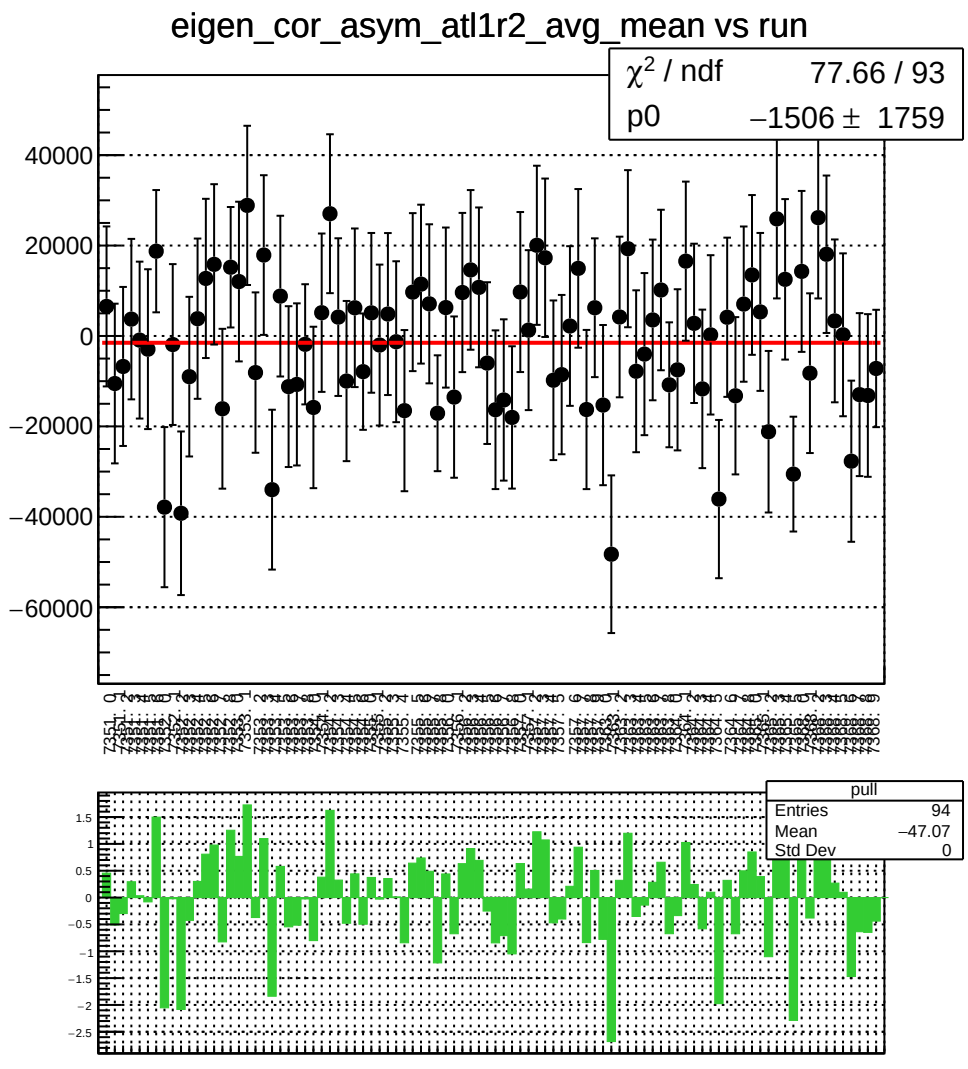

pull1D
Entries 94
Mean 0.009808
Std Dev 0.9089
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

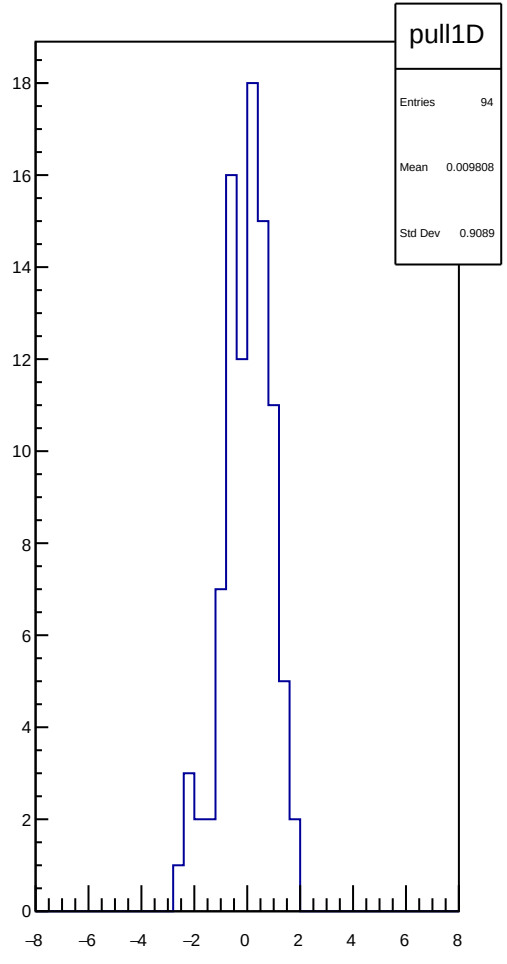

cor_asym_atl1r2_avg_rms vs run
χ² / ndf 126.3 / 93
p0 1677 ± 1.244
1720
1700
1680
1660
1640

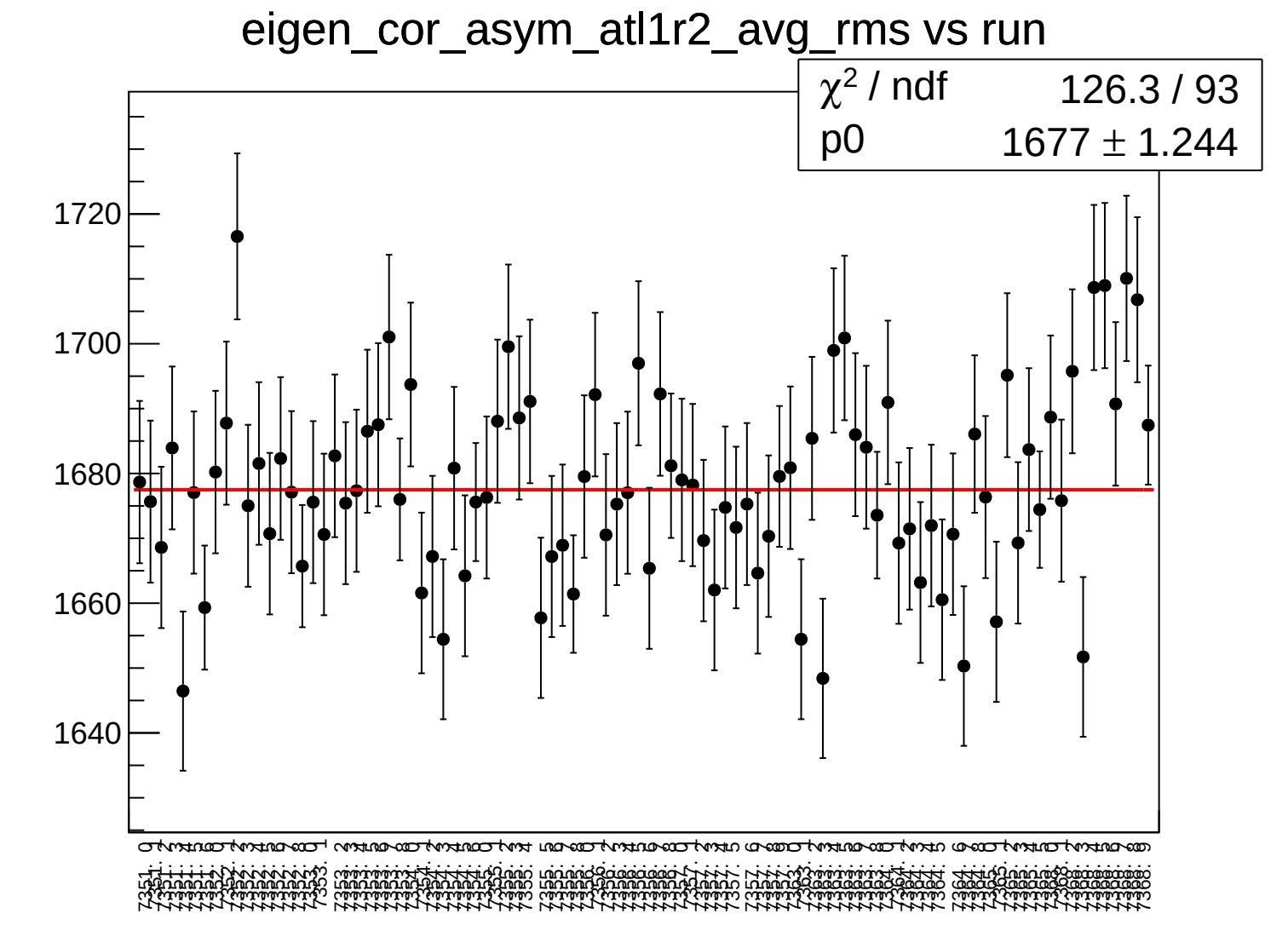

asym_atl1r2_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 77.42 / 93
p0 5618 ± 6249
pull
Entries 94
Mean −87.06
Std Dev 0

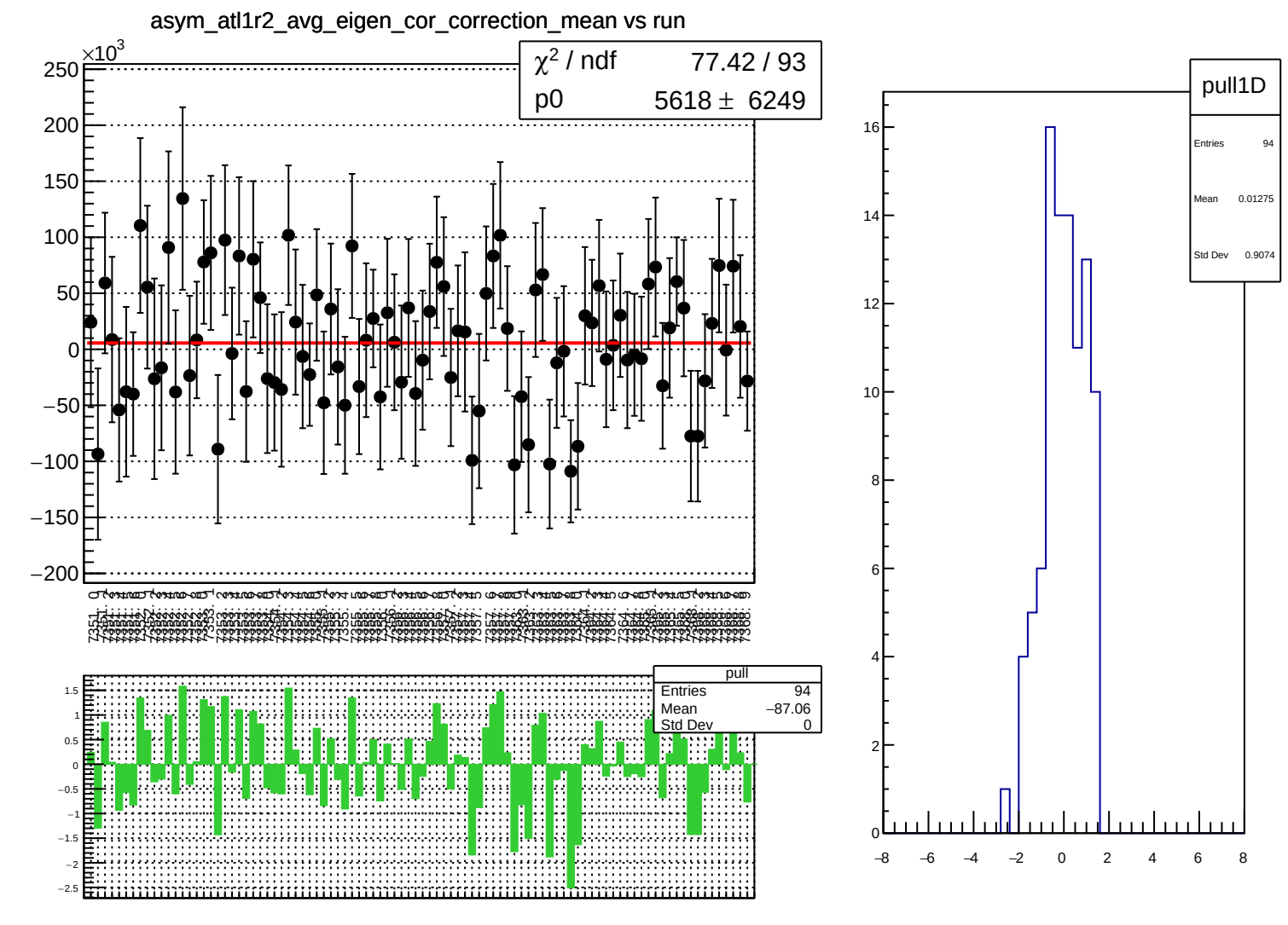

pull1D
Entries 94
Mean 0.01275
Std Dev 0.9074

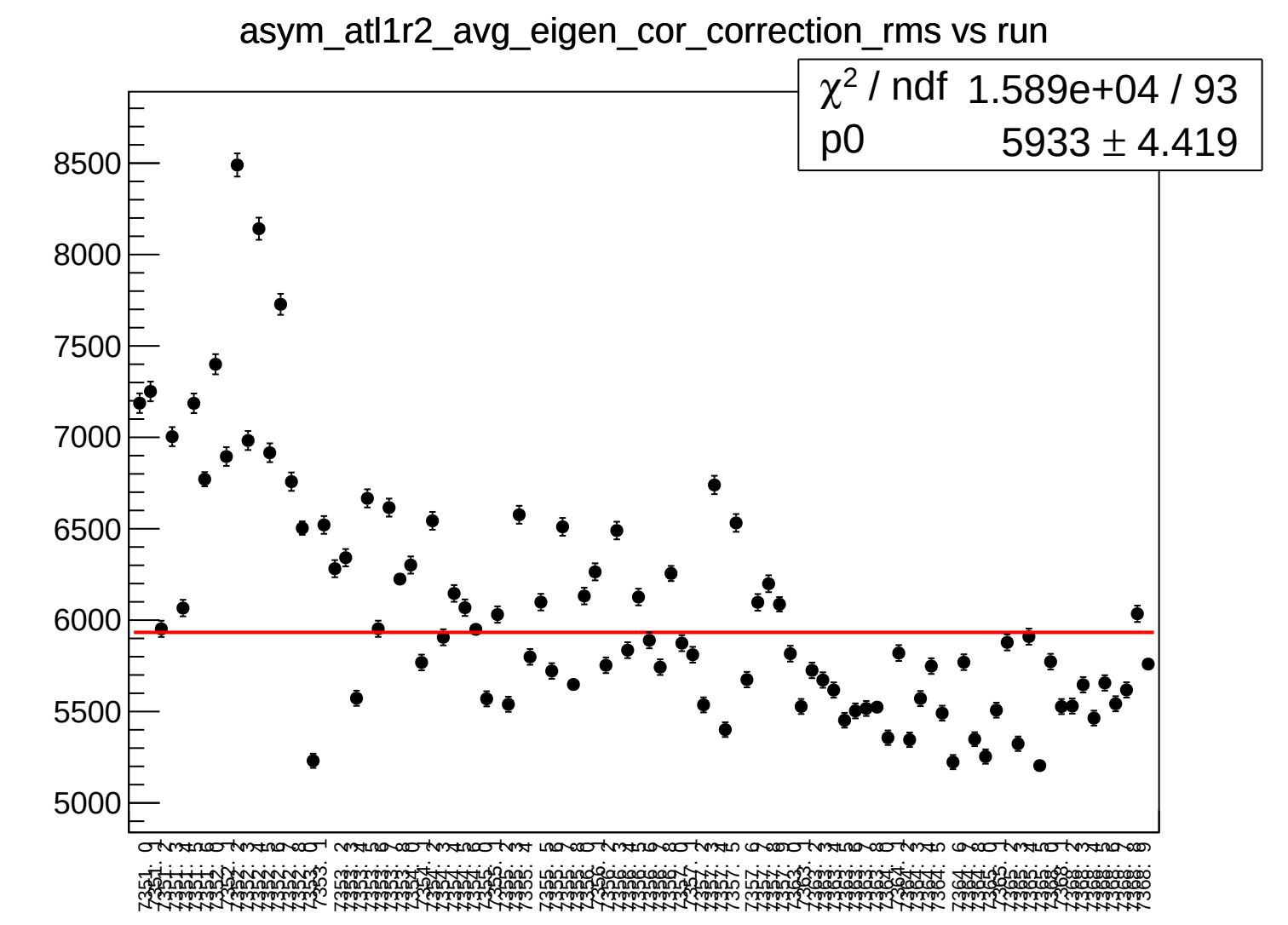

asym_atl1r2_avg_cor_correction_rms vs run
χ² / ndf 1.589e+04 / 93
p0 5933 ± 4.419
8500
8000
7500
7000
6500
6000
5500
5000

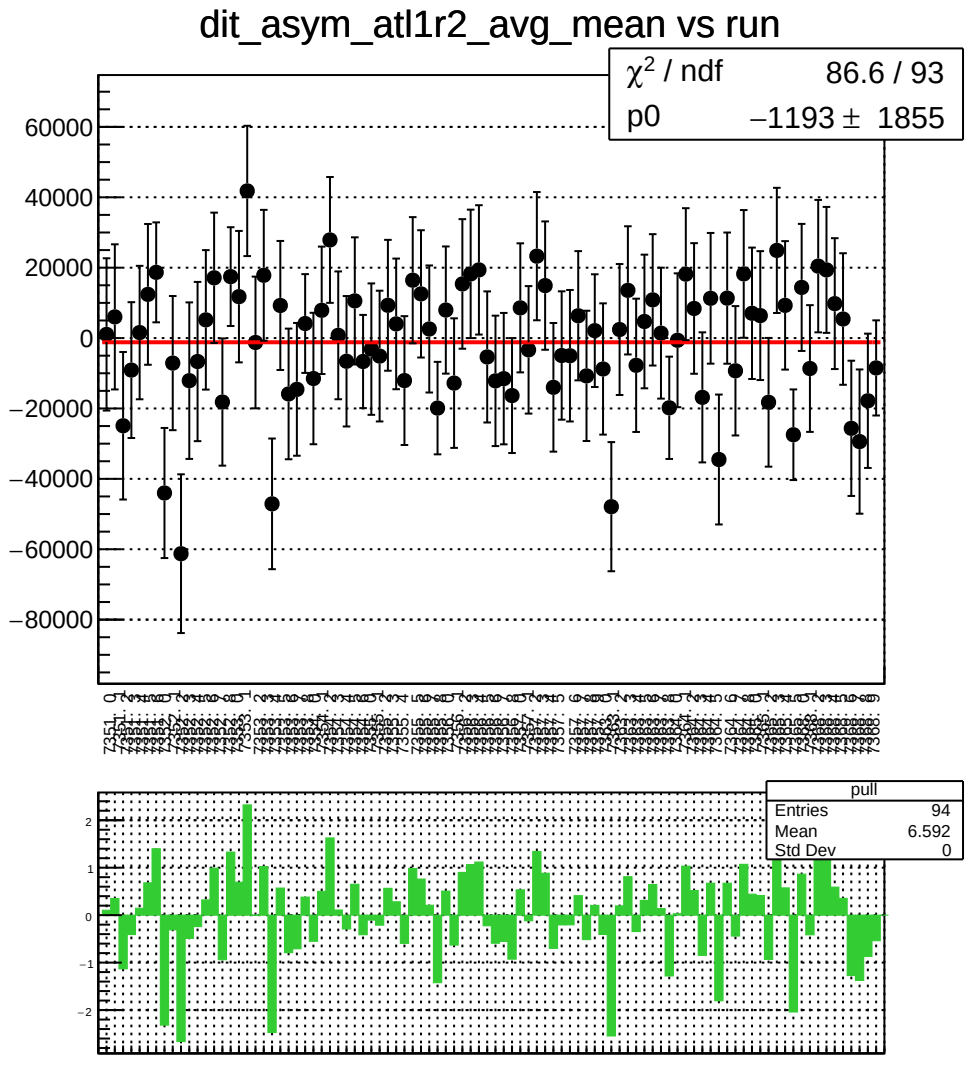

eigen_cor_asym_atl1r2_avg_mean vs run
χ² / ndf 77.66 / 93
p0 −1506 ± 1759
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −47.07
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

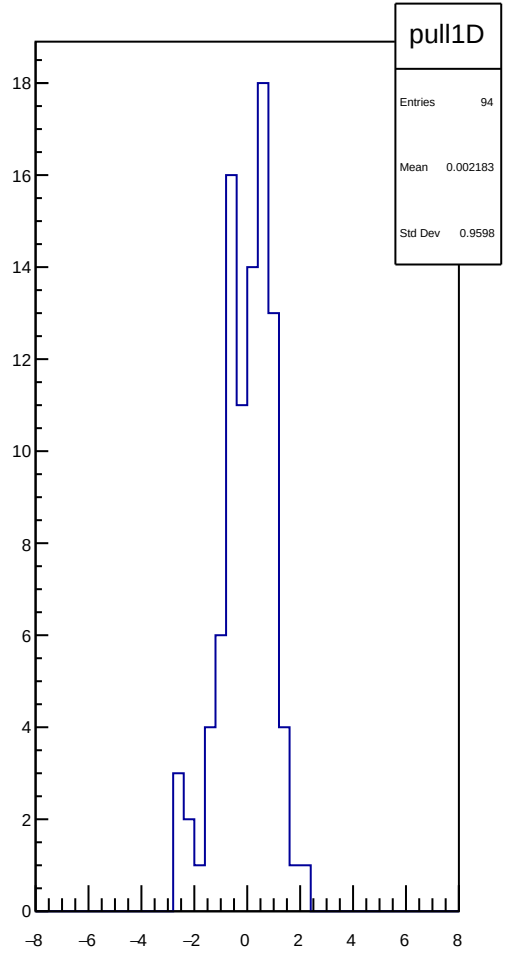

pull1D
Entries 94
Mean 0.009808
Std Dev 0.9089
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

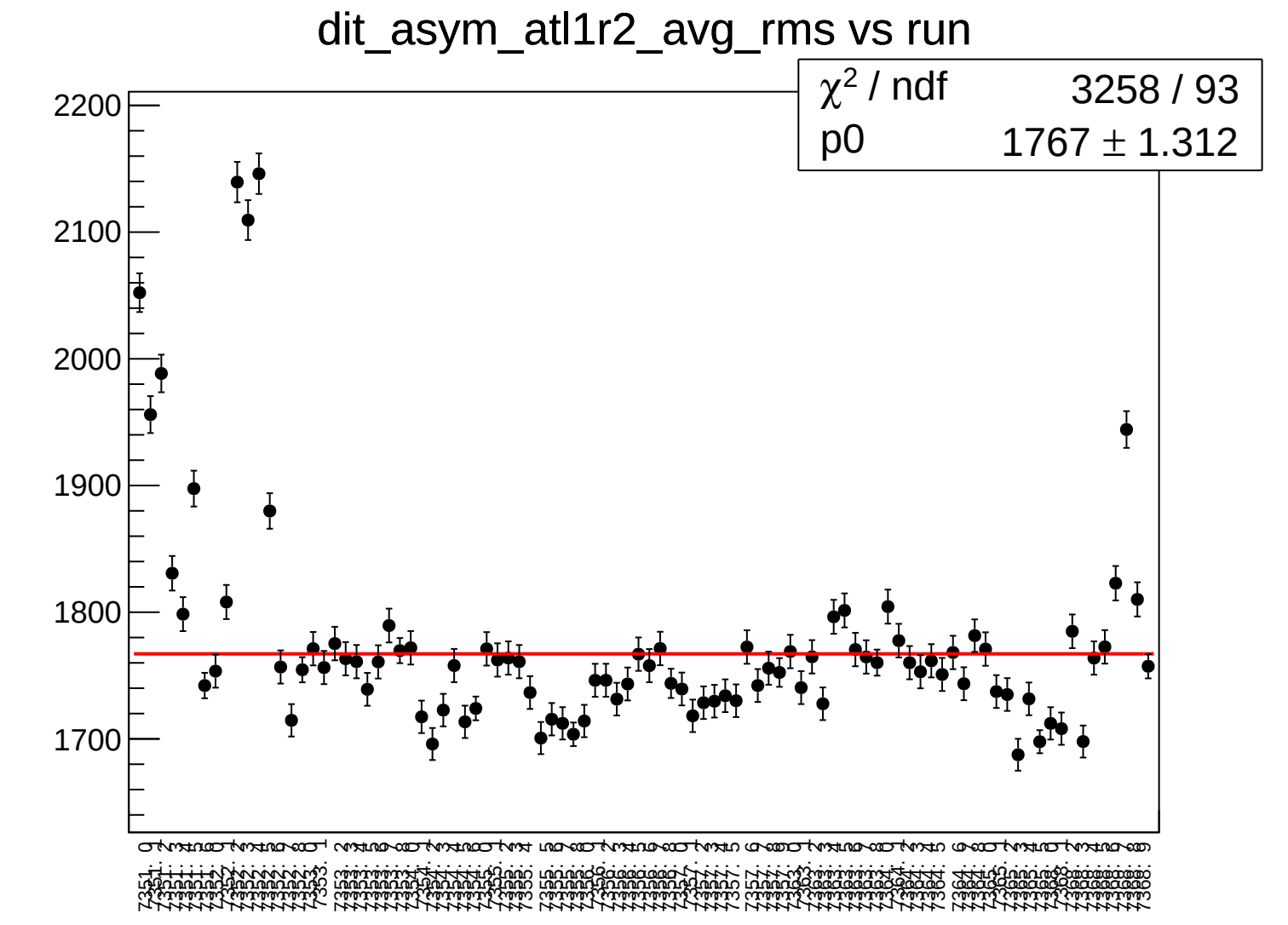

eigen_cor_asym_atl1r2_avg_rms vs run
χ² / ndf 126.3 / 93
p0 1677 ± 1.244
1720
1700
1680
1660
1640

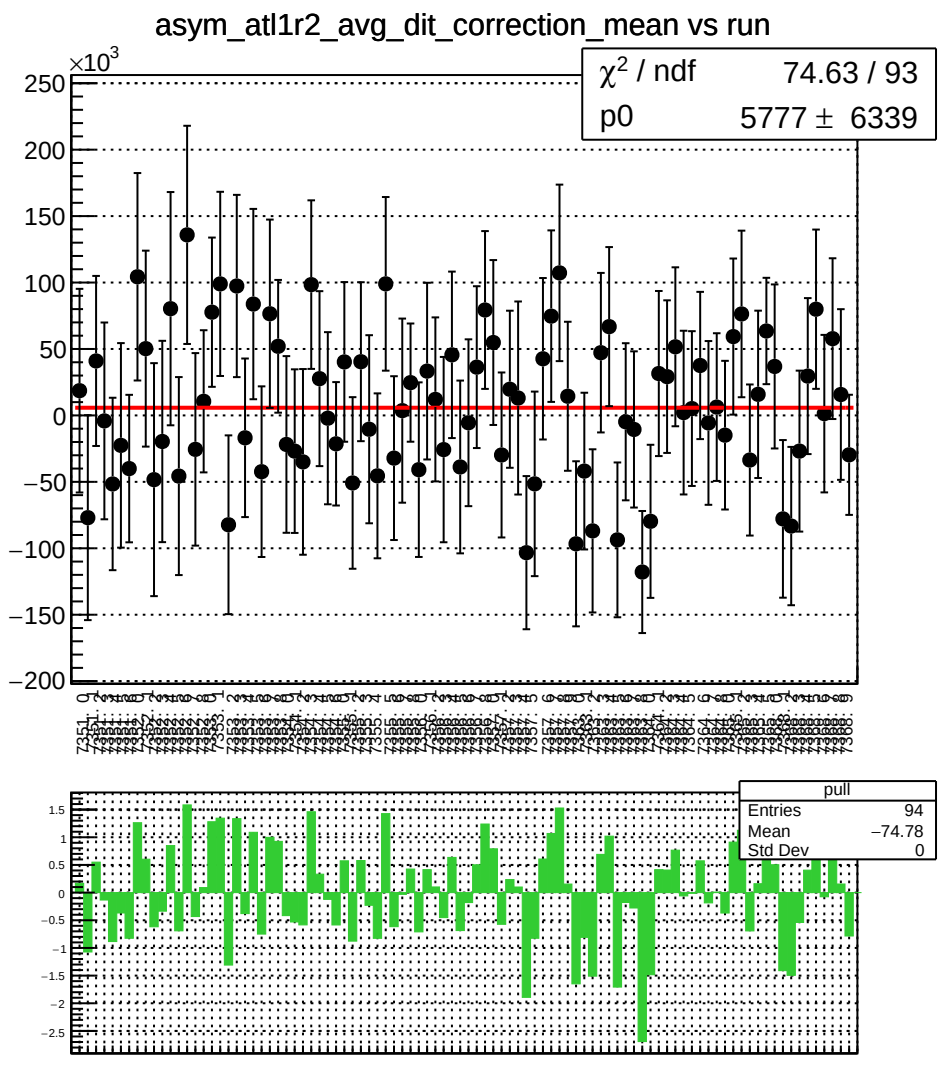

asym_atl1r2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 77.42 / 93
p0 5618 ± 6249
pull
Entries 94
Mean −87.06
Std Dev 0
pull1D
Entries 94
Mean 0.01275
Std Dev 0.9074

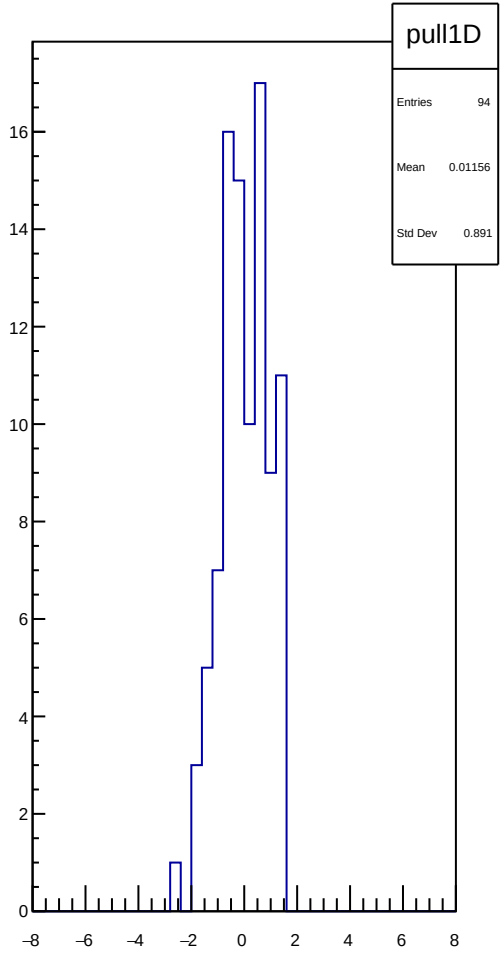

asym_atl1r2_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 1.589e+04 / 93
p0 5933 ± 4.419
8500
8000
7500
7000
6500
6000
5500
5000

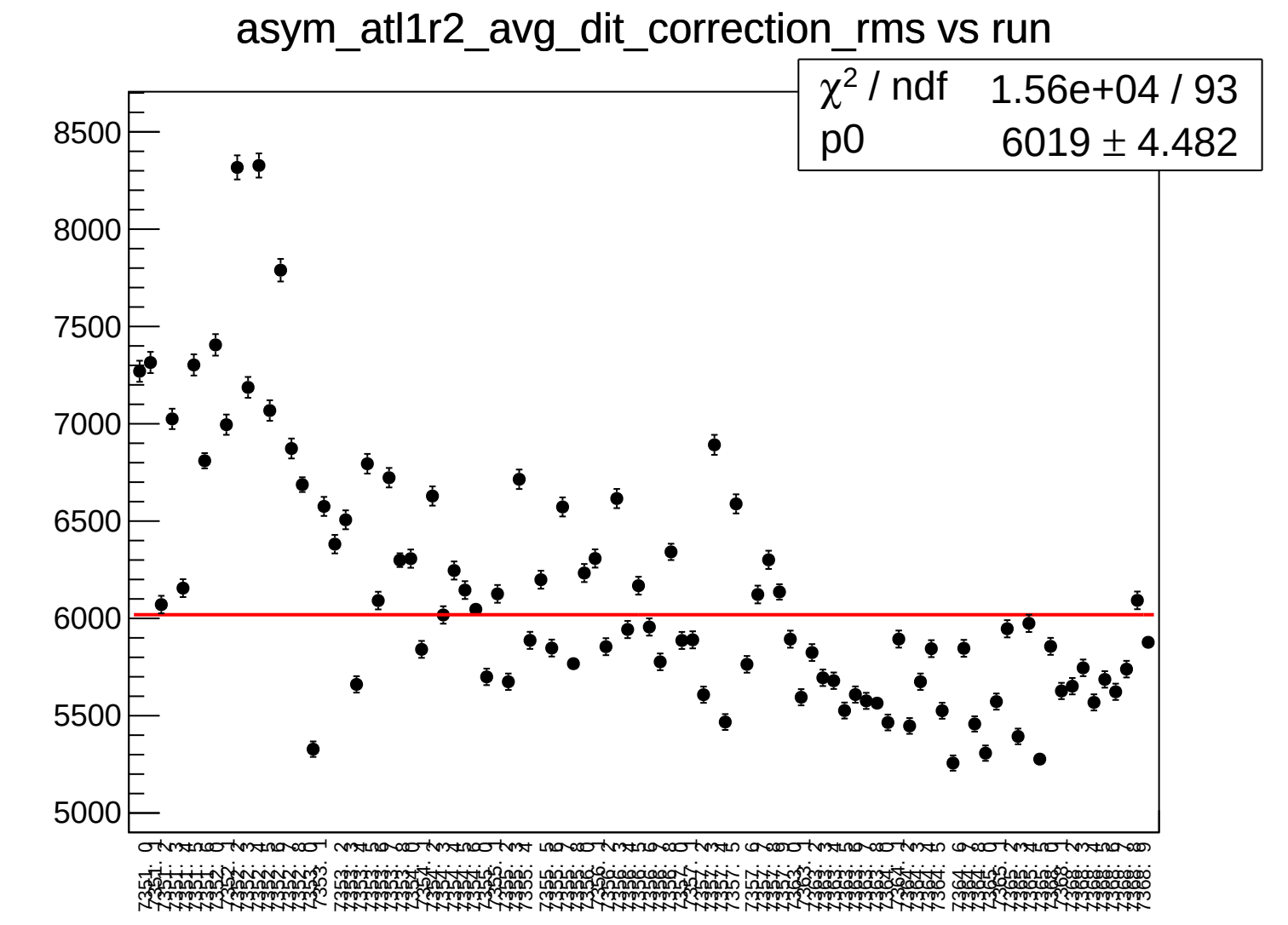

dit_asym_atl1r2_avg_mean vs run
χ² / ndf 86.6 / 93
p0 −1193 ± 1855
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean 6.592
Std Dev 0
2
1
0
−1
−2

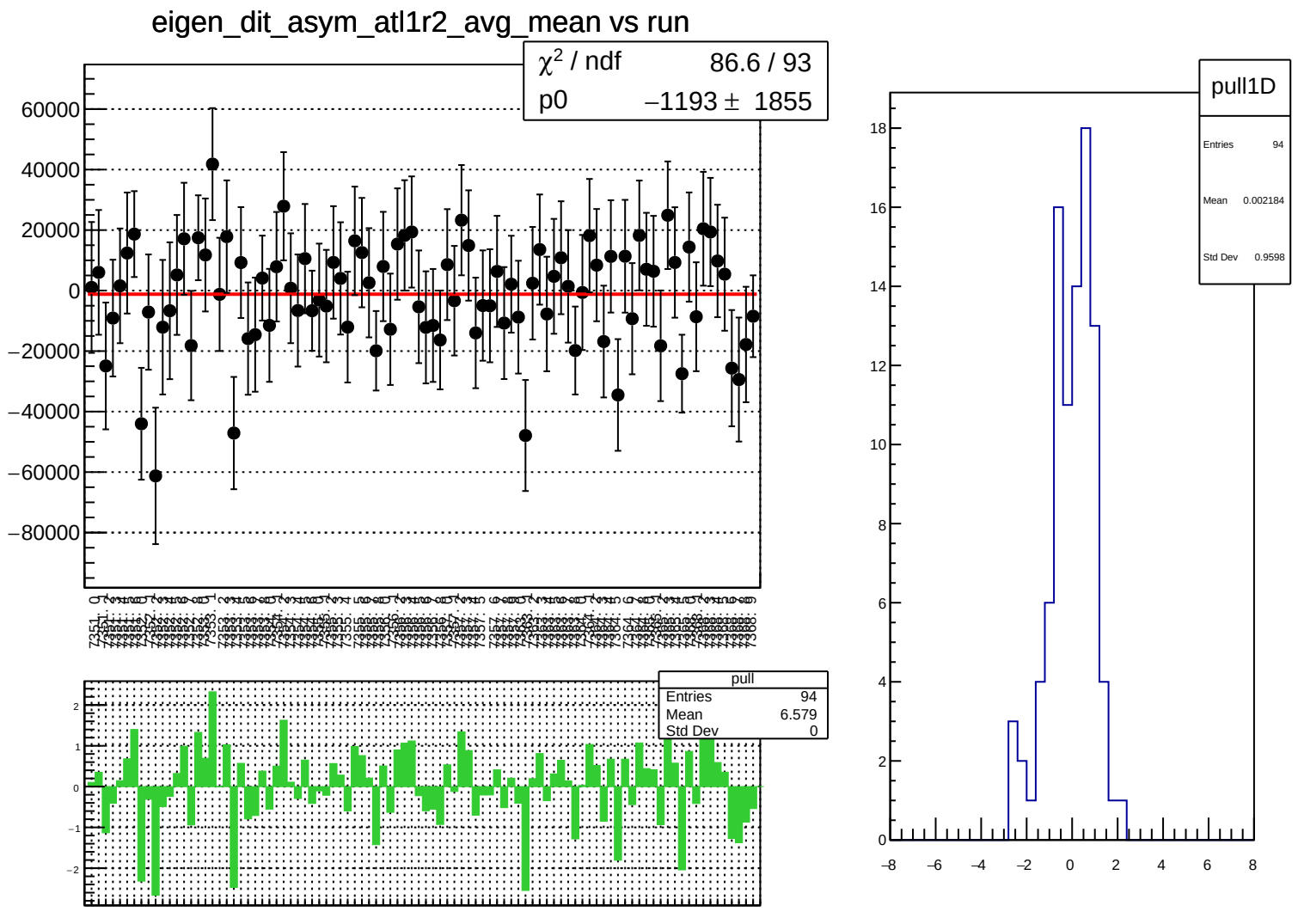

pull1D
Entries 94
Mean 0.002183
Std Dev 0.9598
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

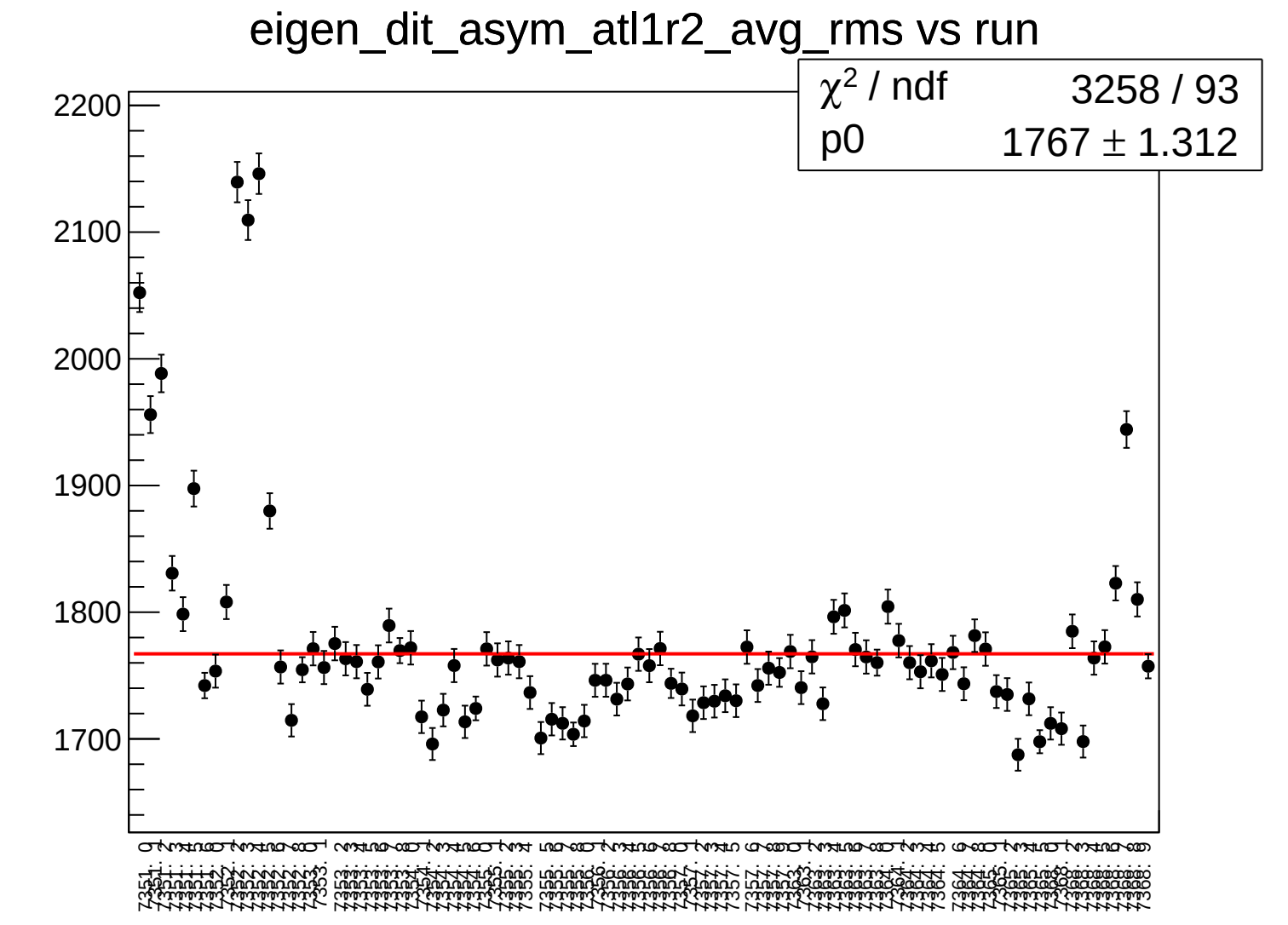

dit_asym_atl1r2_avg_rms vs run
χ² / ndf 3258 / 93
p0 1767 ± 1.312
2200
2100
2000
1900
1800
1700

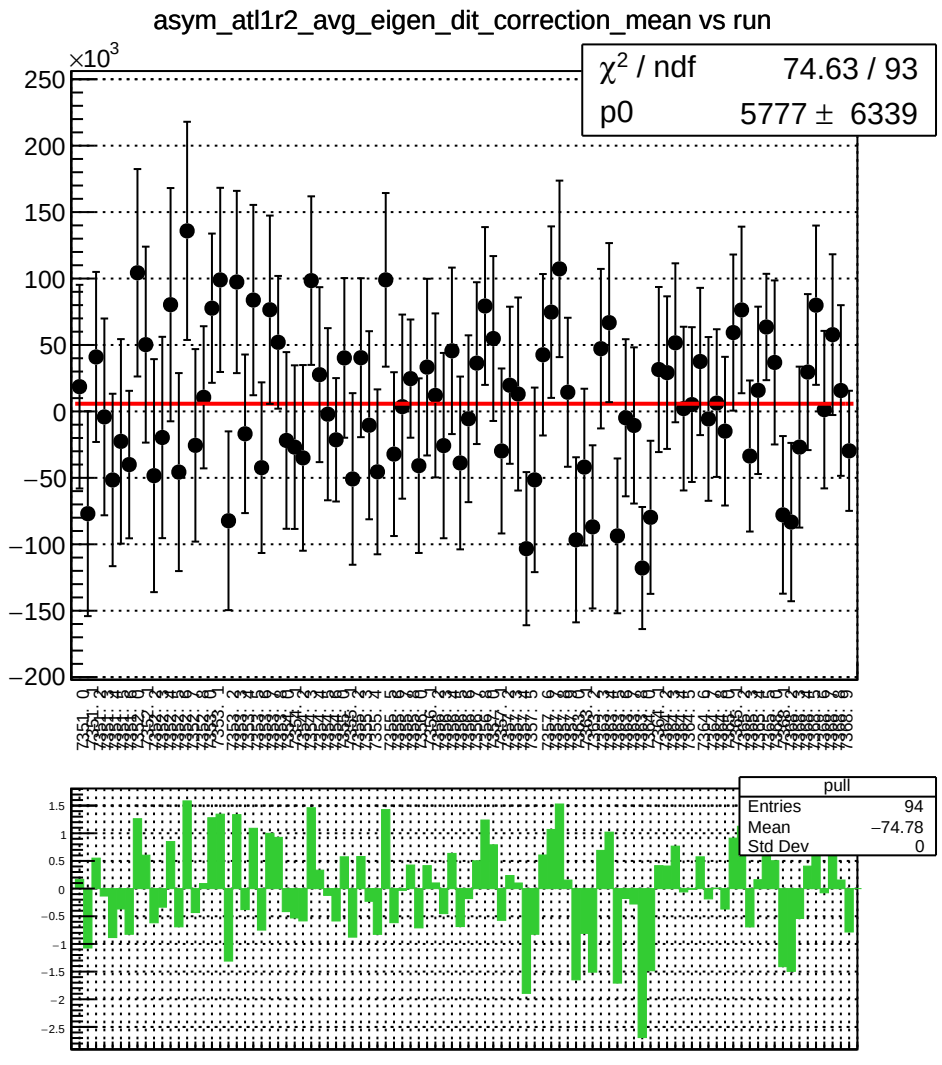

asym_atl1r2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 74.63 / 93
p0 5777 ± 6339
pull
Entries 94
Mean −74.78
Std Dev 0

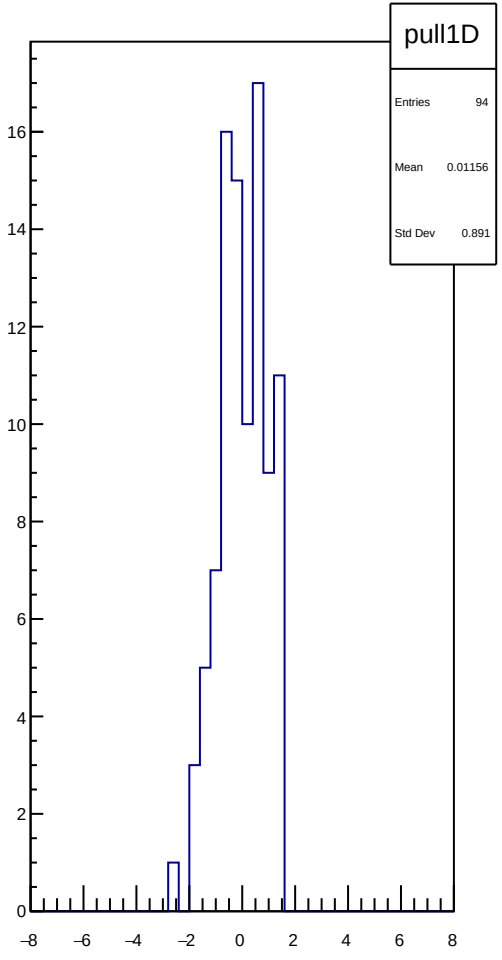

pull1D
Entries 94
Mean 0.01156
Std Dev 0.891

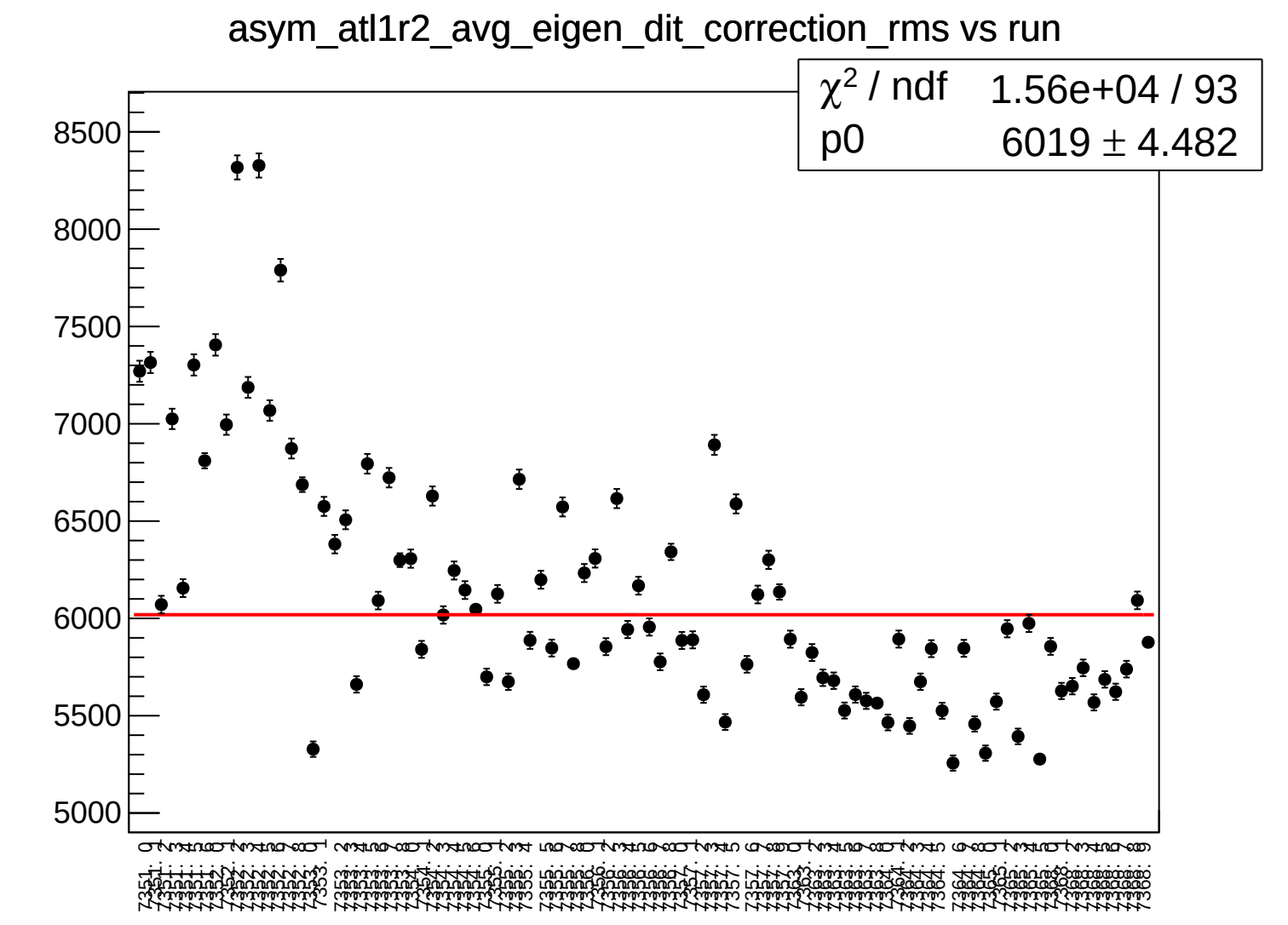

asym_atl1r2_avg_dit_correction_rms vs run
χ² / ndf 1.56e+04 / 93
p0 6019 ± 4.482
8500
8000
7500
7000
6500
6000
5500
5000

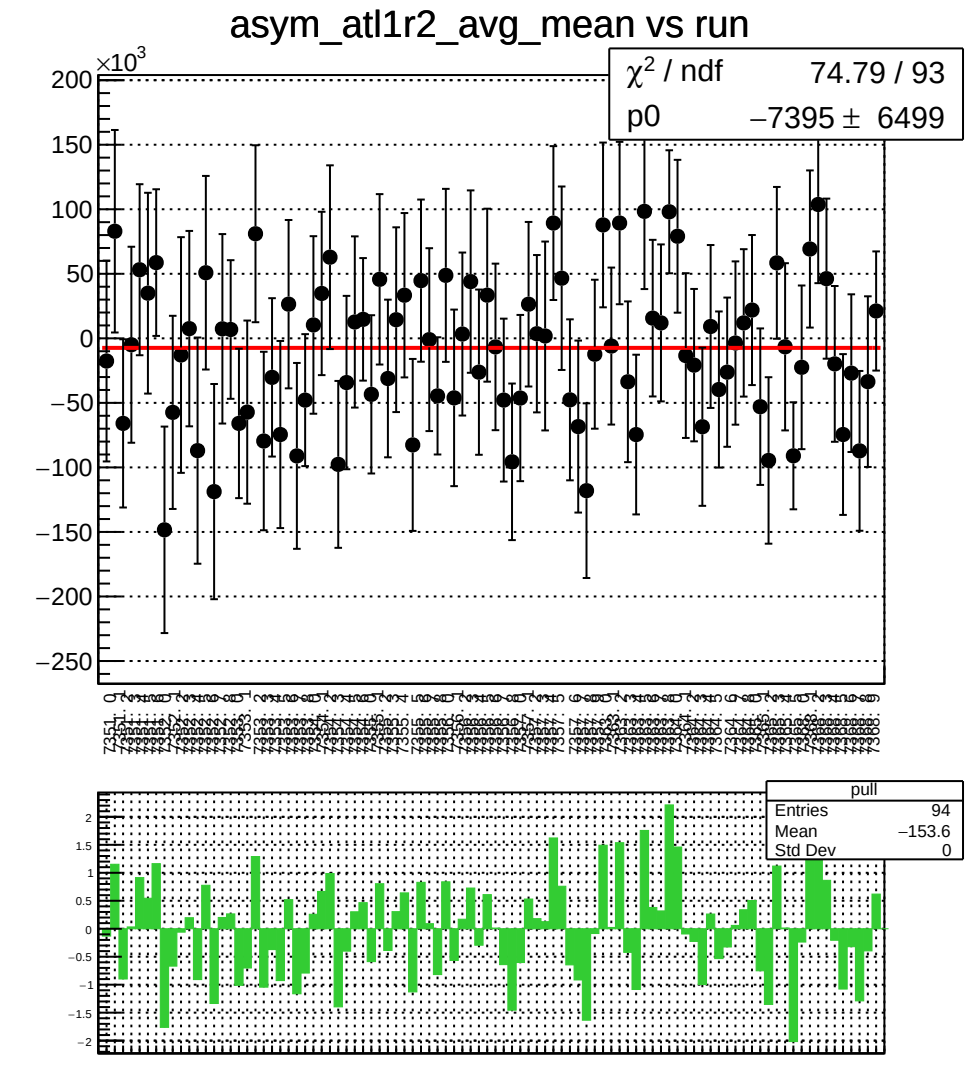

eigen_dit_asym_atl1r2_avg_mean vs run
χ² / ndf 86.6 / 93
p0 −1193 ± 1855
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean 6.579
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.002184
Std Dev 0.9598
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

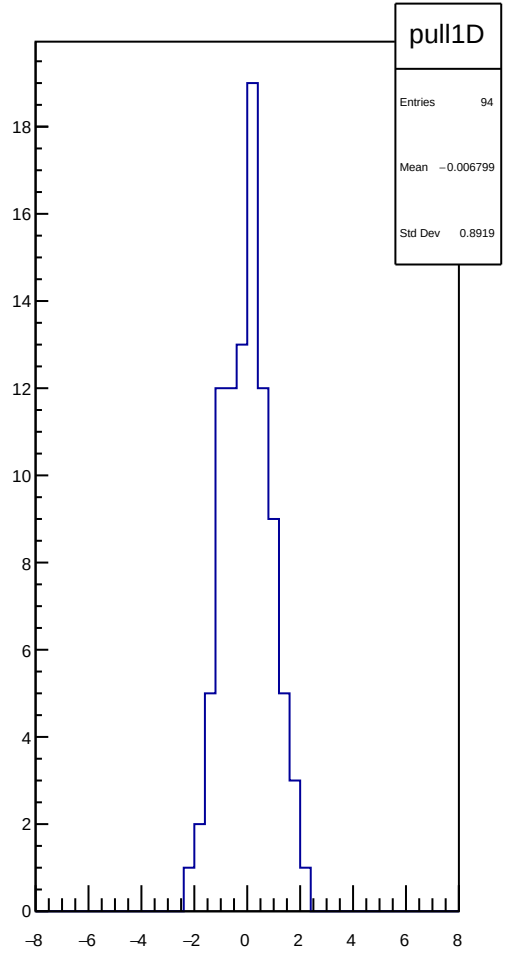

eigen_dit_asym_atl1r2_avg_rms vs run
χ^2 / ndf 3258 / 93
p0 1767 ± 1.312
2200
2100
2000
1900
1800
1700

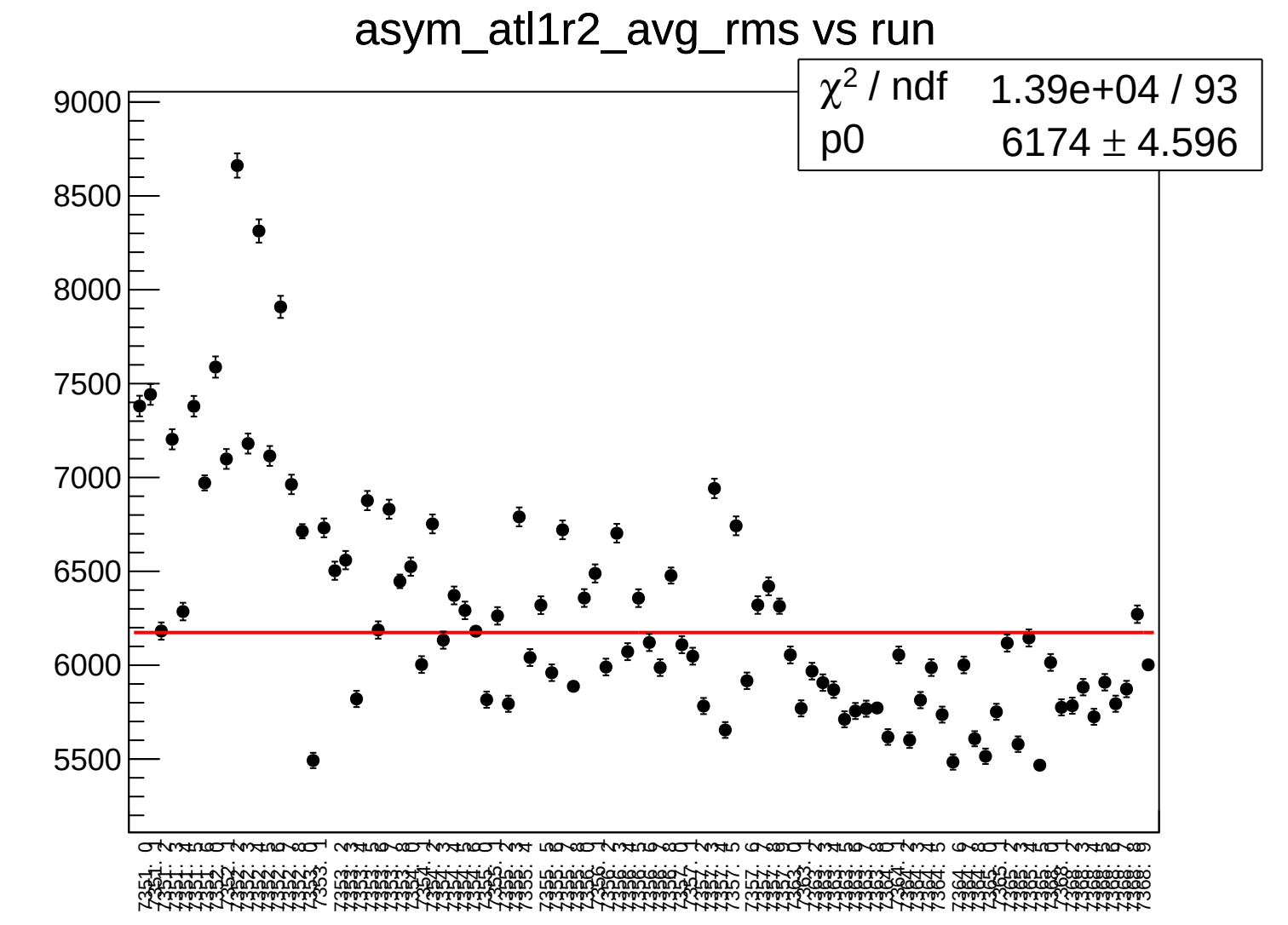

asym_atl1r2_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 74.63 / 93
p0 5777 ± 6339
pull
Entries 94
Mean −74.78
Std Dev 0

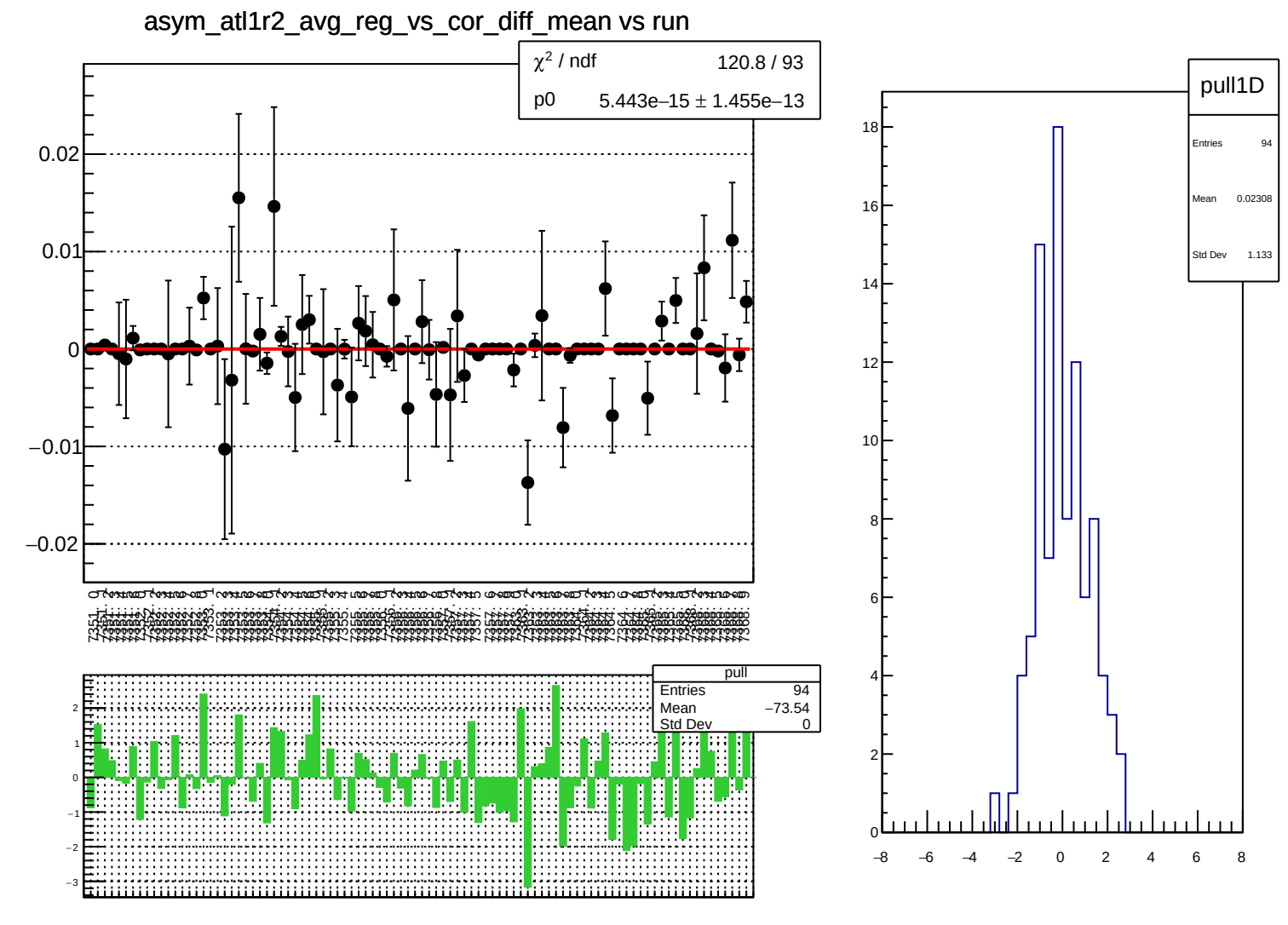

pull1D
Entries 94
Mean 0.01156
Std Dev 0.891

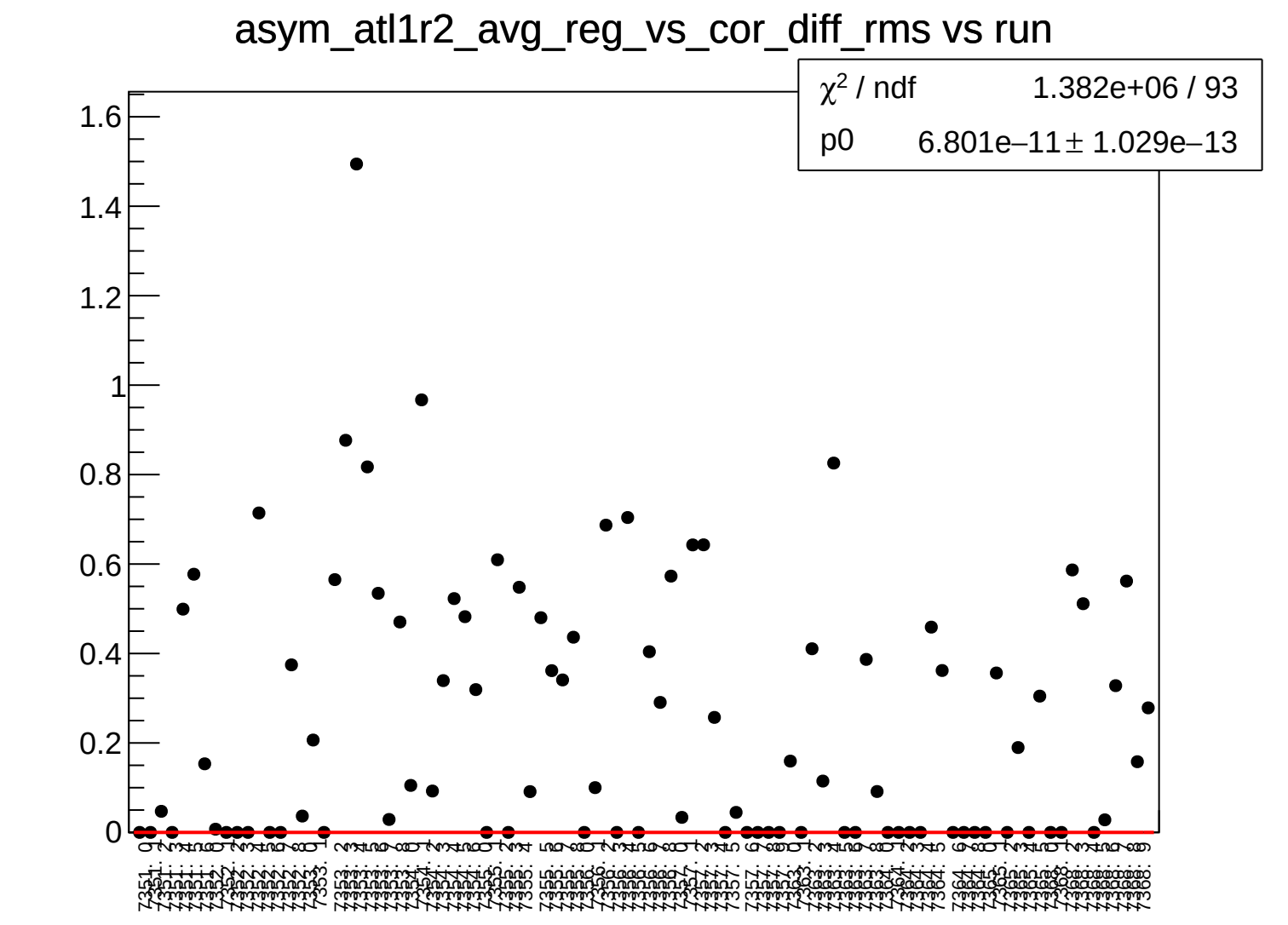

asym_atl1r2_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.56e+04 / 93
p0 6019 ± 4.482
8500
8000
7500
7000
6500
6000
5500
5000

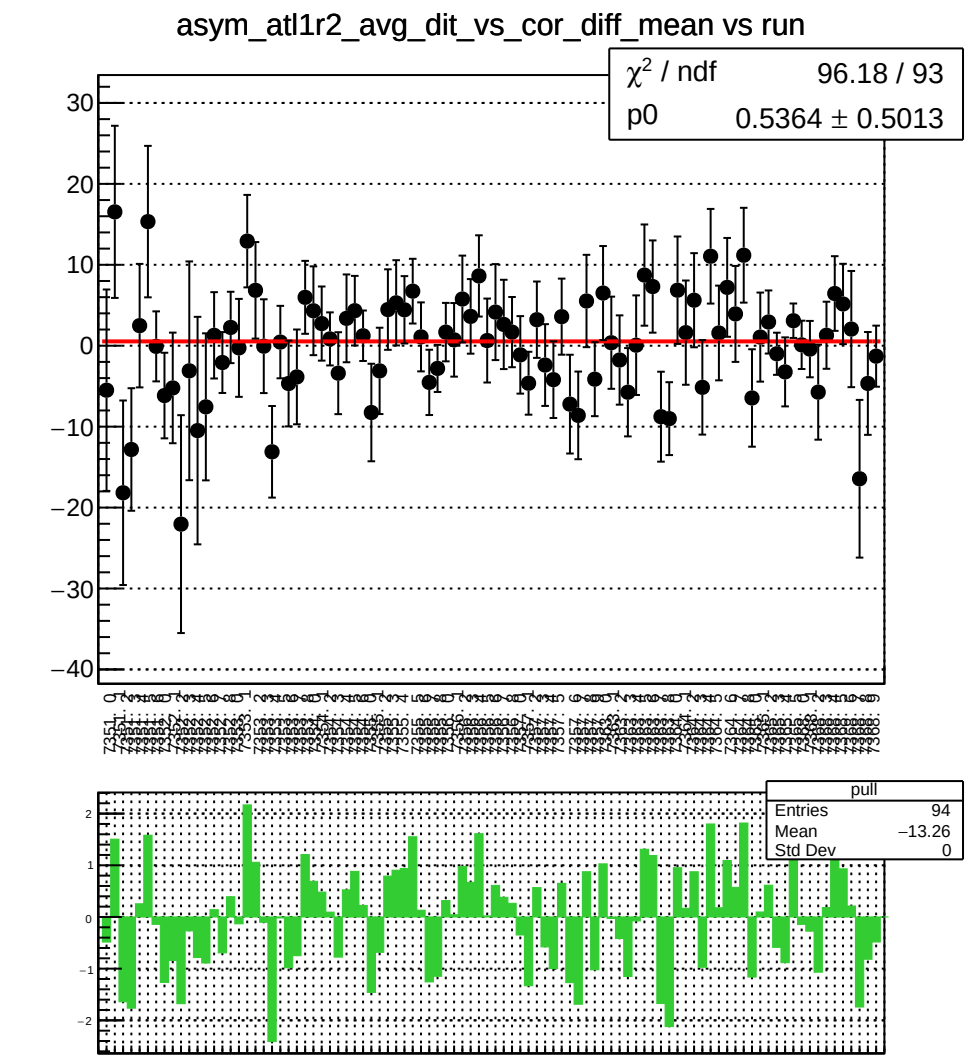

asym_atl1r2_avg_mean vs run
χ^2 / ndf 74.79 / 93
p0 −7395 ± 6499
×10^3
pull
Entries 94
Mean −153.6
Std Dev 0

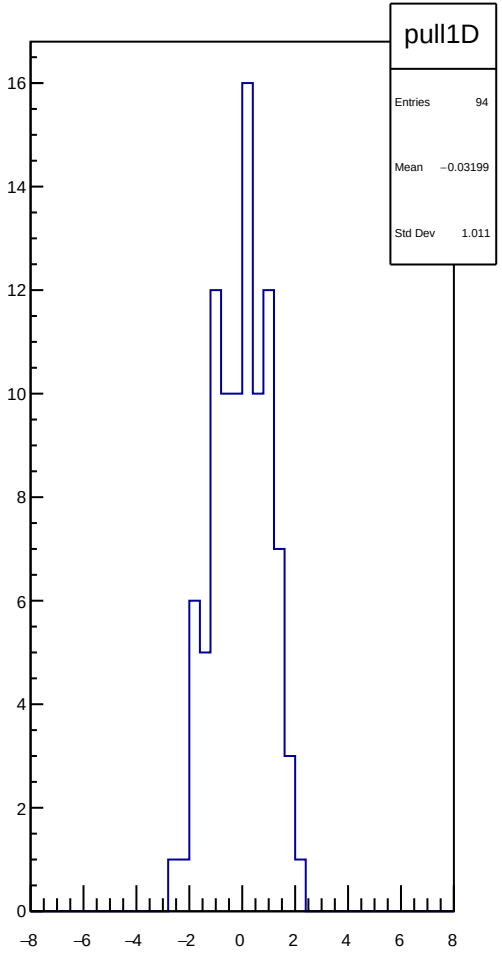

pull1D
Entries 94
Mean −0.006799
Std Dev 0.8919

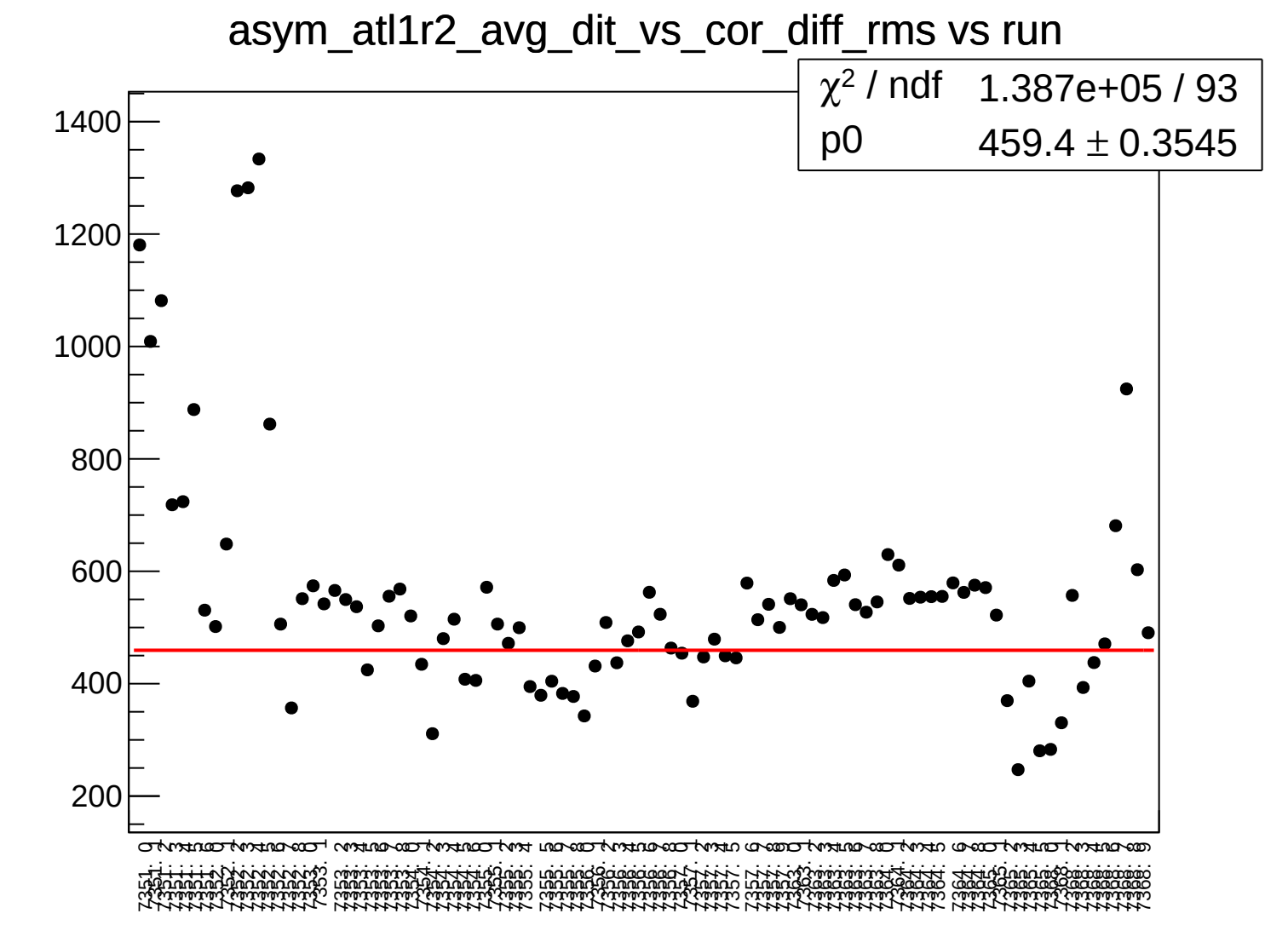

asym_atl1r2_avg_rms vs run
χ^2 / ndf 1.39e+04 / 93
p0 6174 ± 4.596
9000
8500
8000
7500
7000
6500
6000
5500

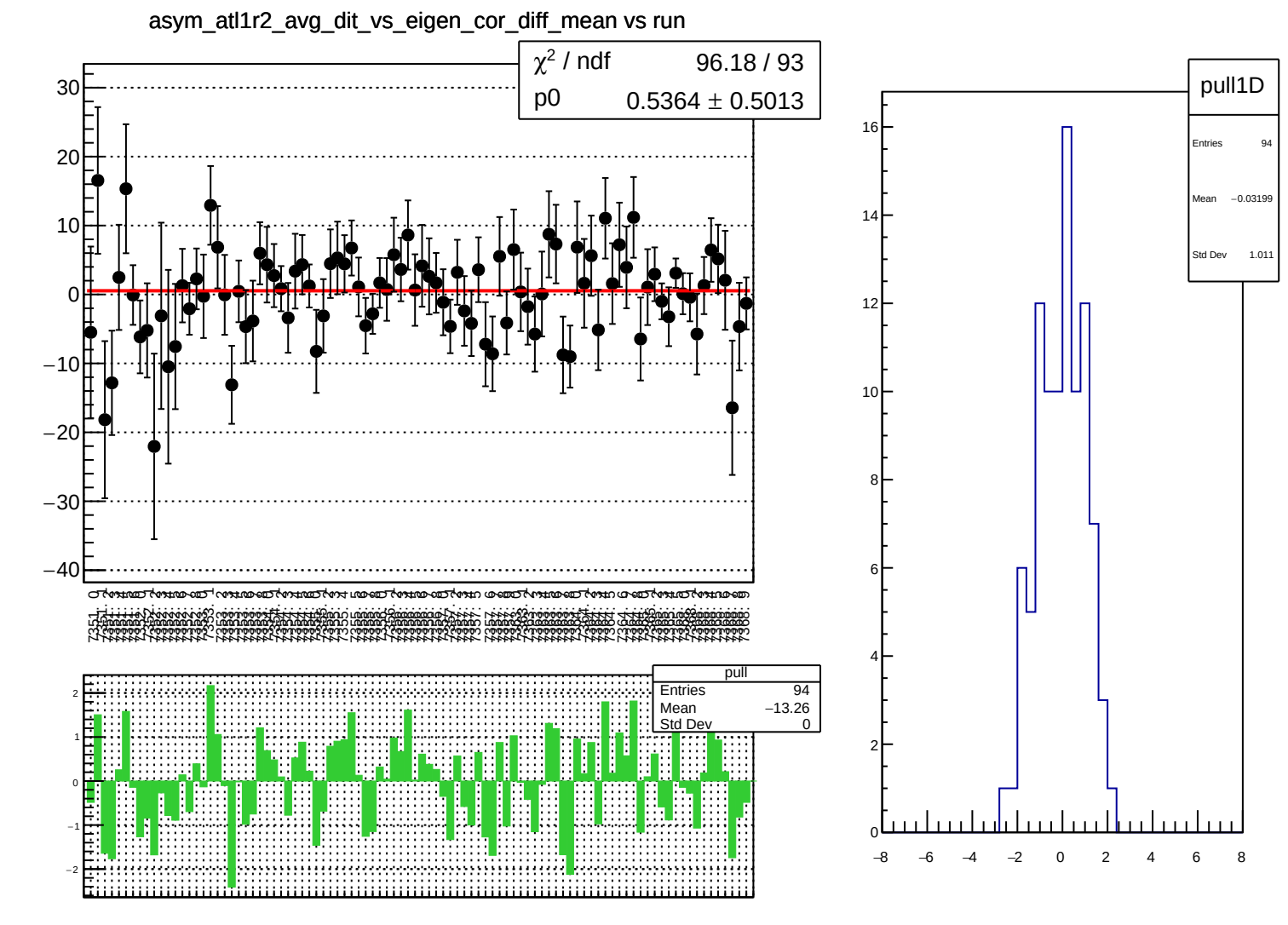

asym_atl1r2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 120.8 / 93
p0 5.443e−15 ± 1.455e−13
0.02
0.01
0
−0.01
−0.02
pull
Entries 94
Mean −73.54
Std Dev 0
pull1D
Entries 94
Mean 0.02308
Std Dev 1.133

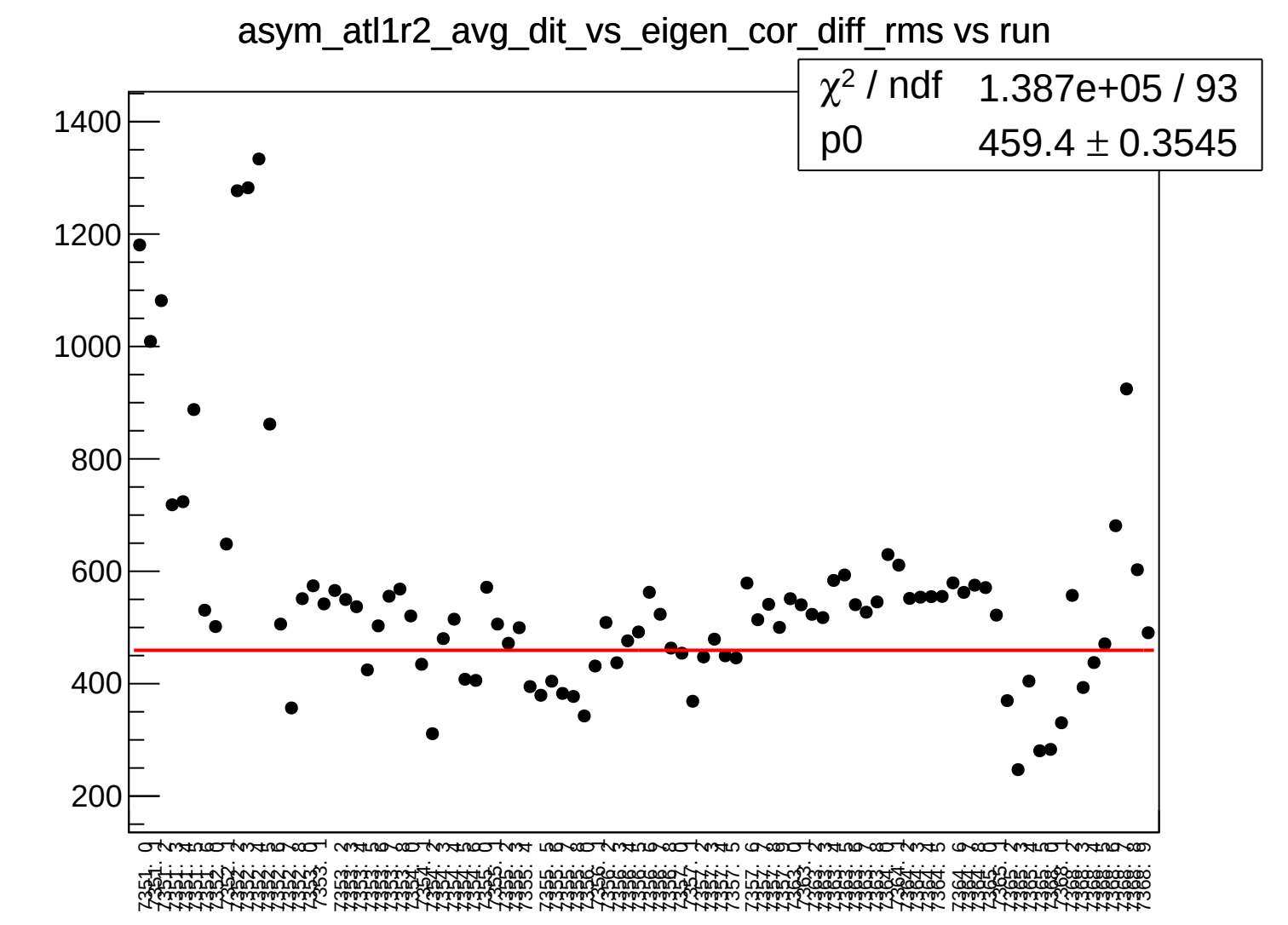

asym_atl1r2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.382e+06 / 93
p0 6.801e−11 ± 1.029e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

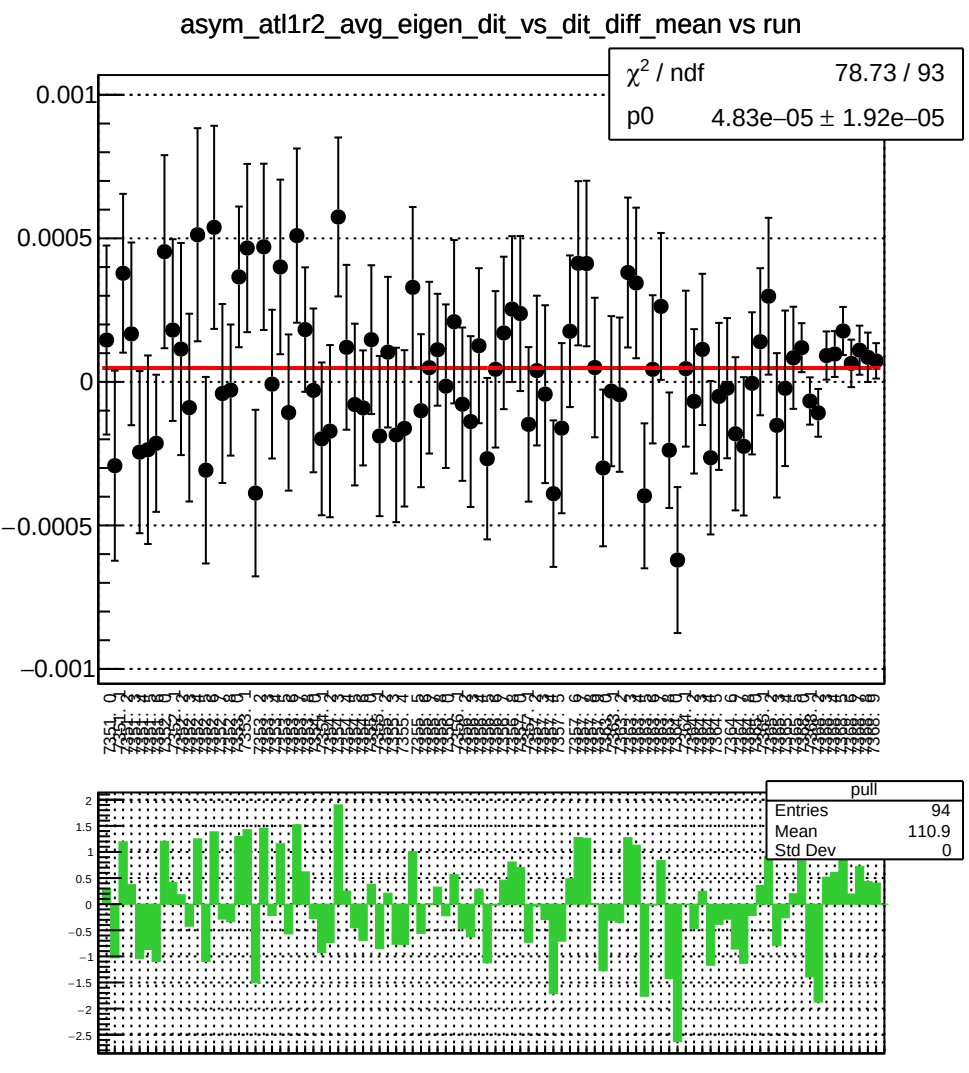

asym_atl1r2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 96.18 / 93
p0 0.5364 ± 0.5013
pull
Entries 94
Mean −13.26
Std Dev 0

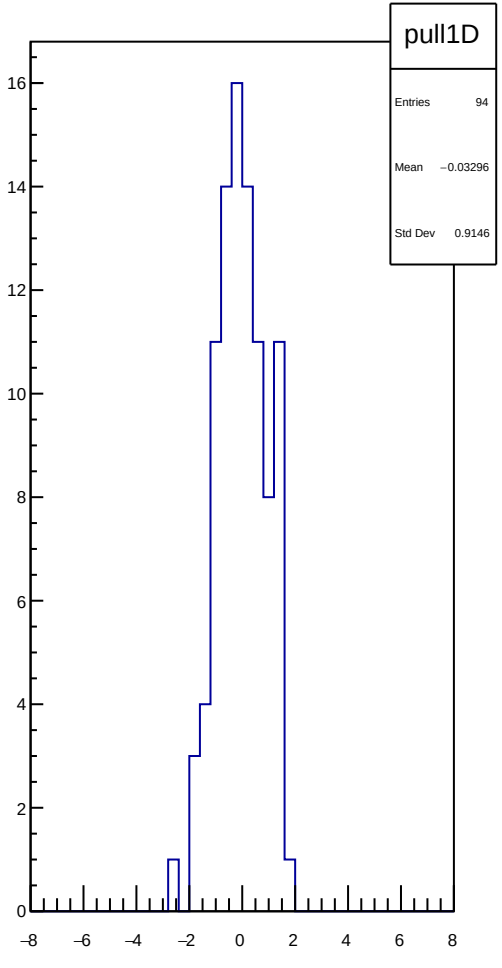

pull1D
Entries 94
Mean −0.03199
Std Dev 1.011

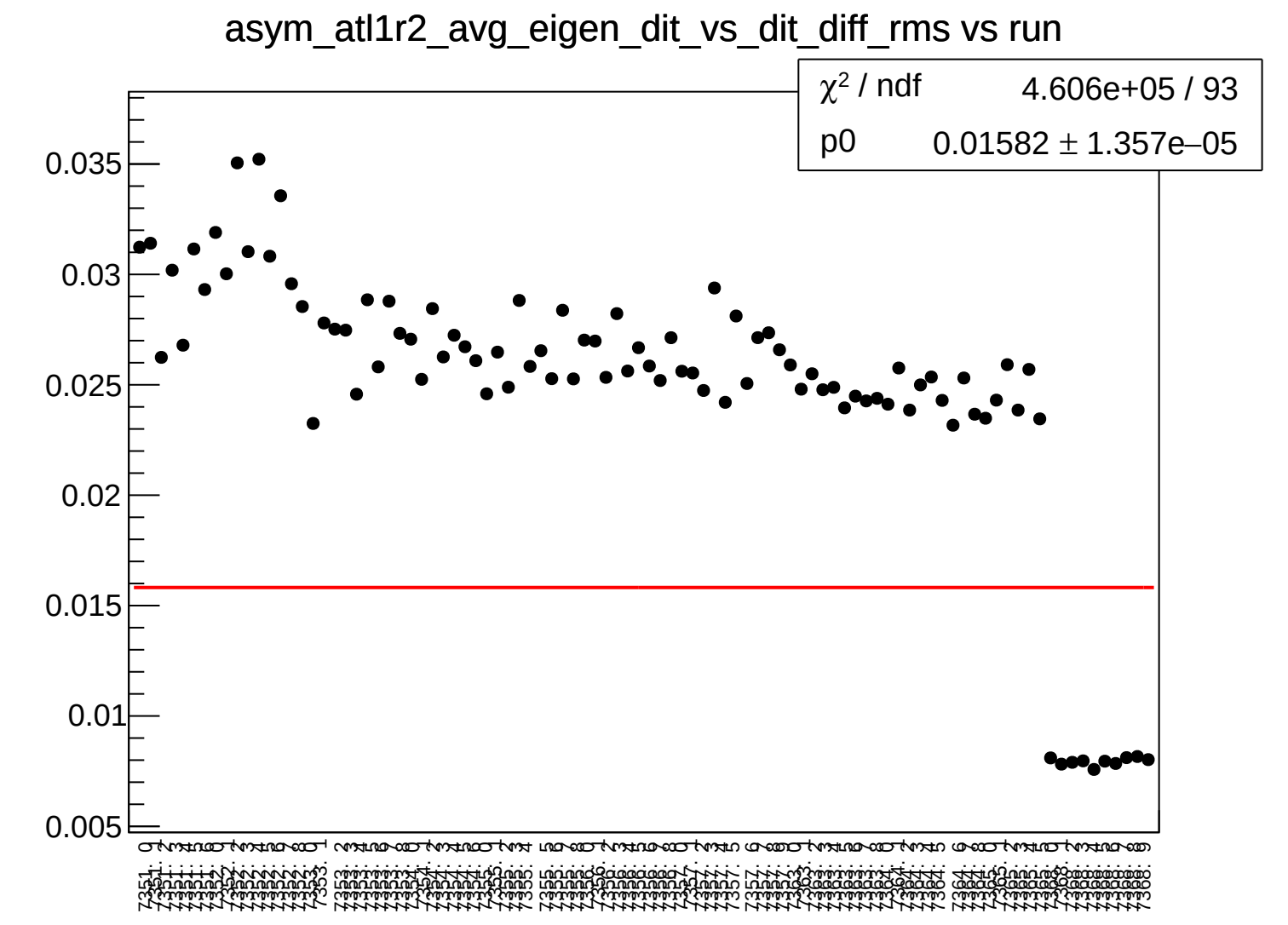

asym_atl1r2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.387e+05 / 93
p0 459.4 ± 0.3545
1400
1200
1000
800
600
400
200

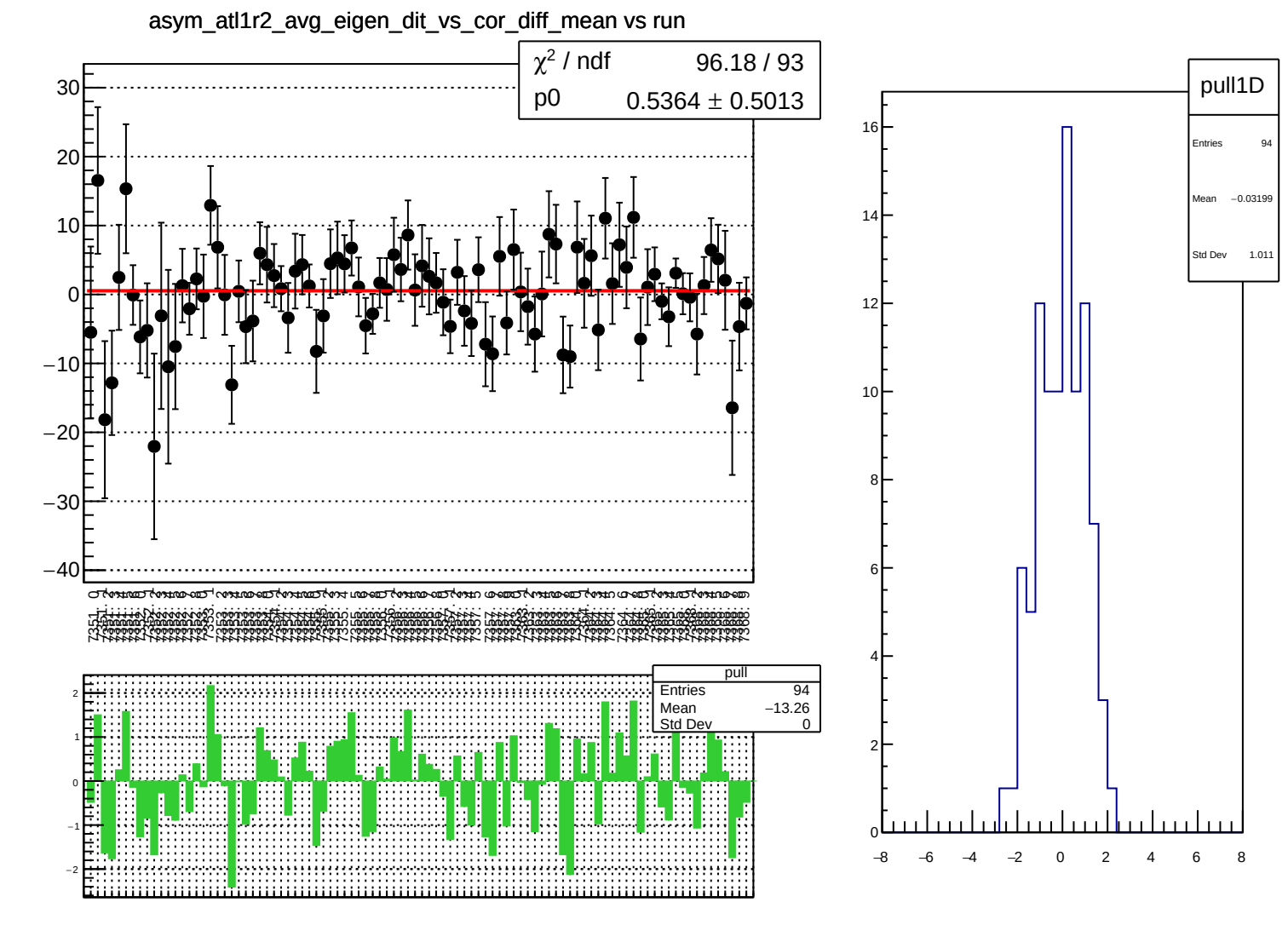

asym_atl1r2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.18 / 93
p0 0.5364 ± 0.5013
pull
Entries 94
Mean −13.26
Std Dev 0
pull1D
Entries 94
Mean −0.03199
Std Dev 1.011

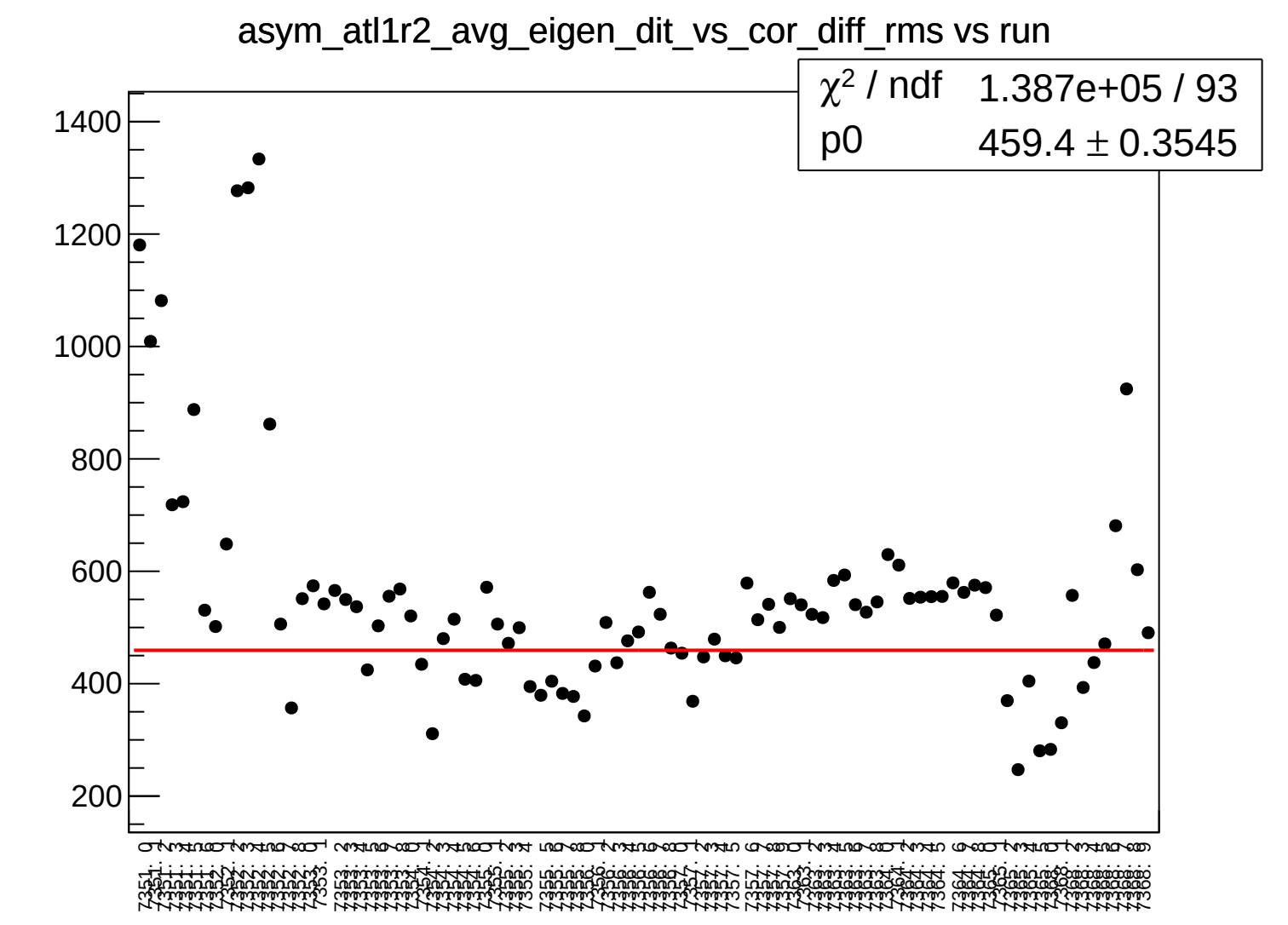

asym_atl1r2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.387e+05 / 93
p0 459.4 ± 0.3545
1400
1200
1000
800
600
400
200

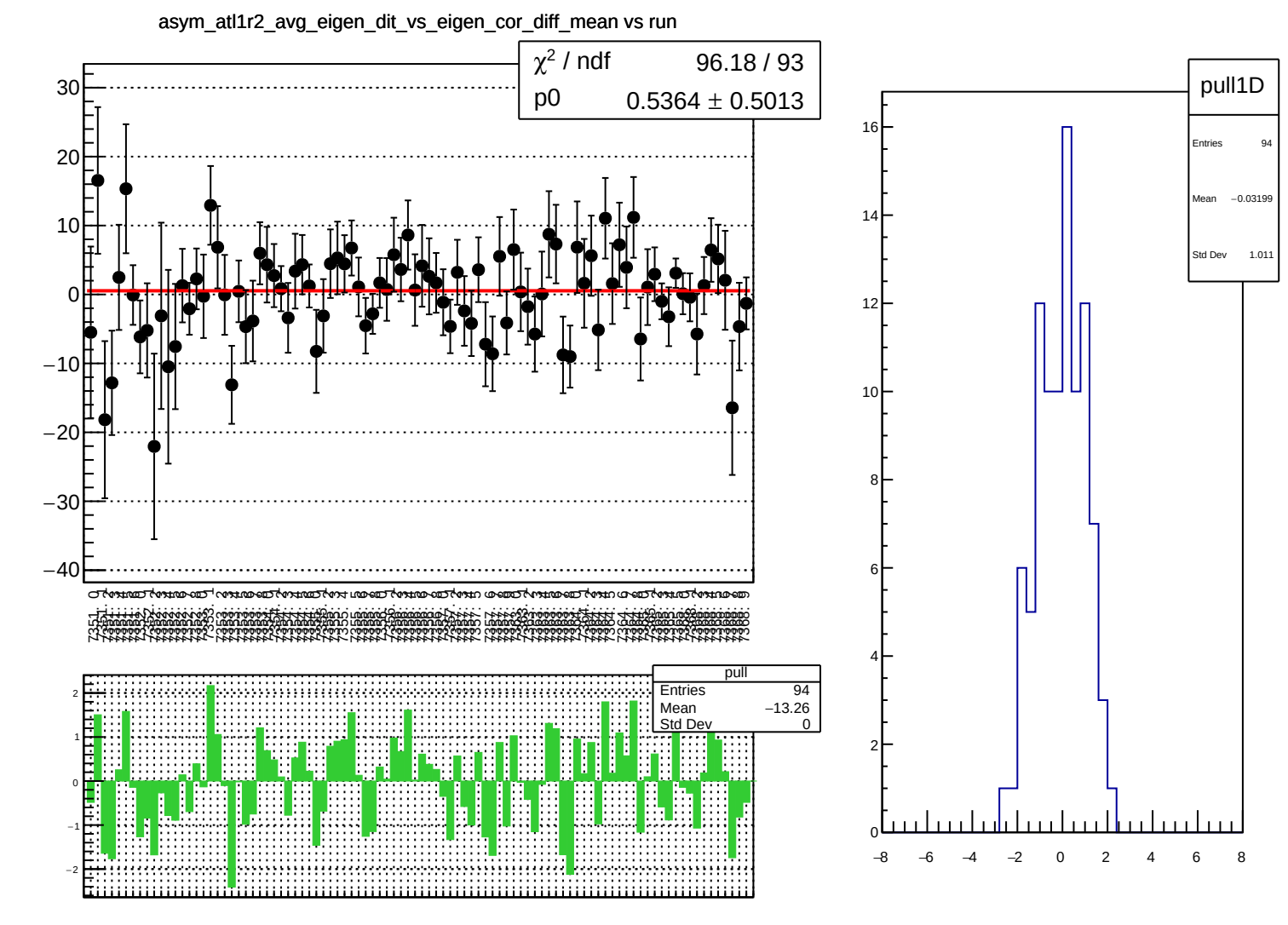

asym_atl1r2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 78.73 / 93
p0 4.83e−05 ± 1.92e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 94
Mean 110.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

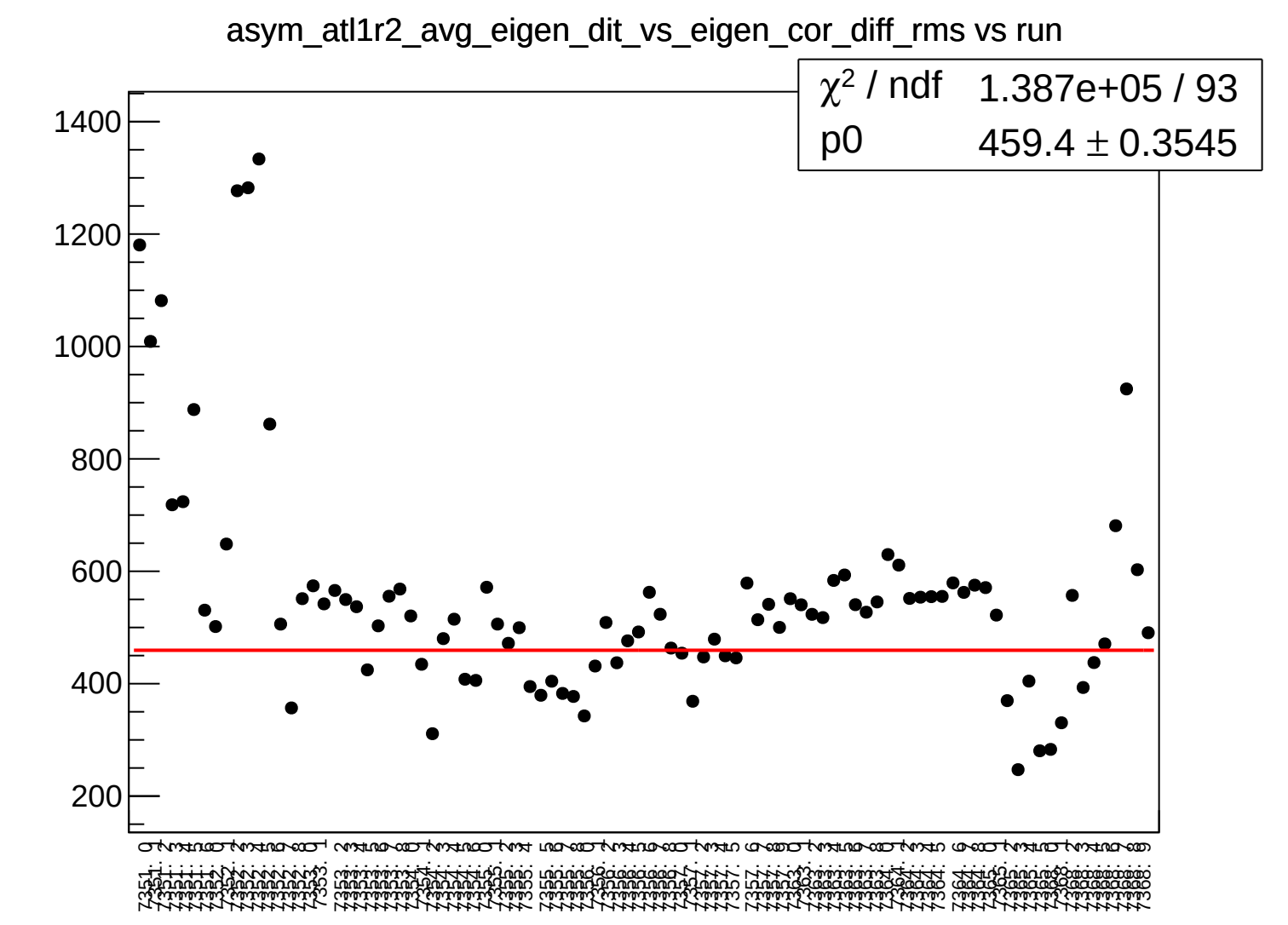

pull1D
Entries 94
Mean −0.03296
Std Dev 0.9146
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

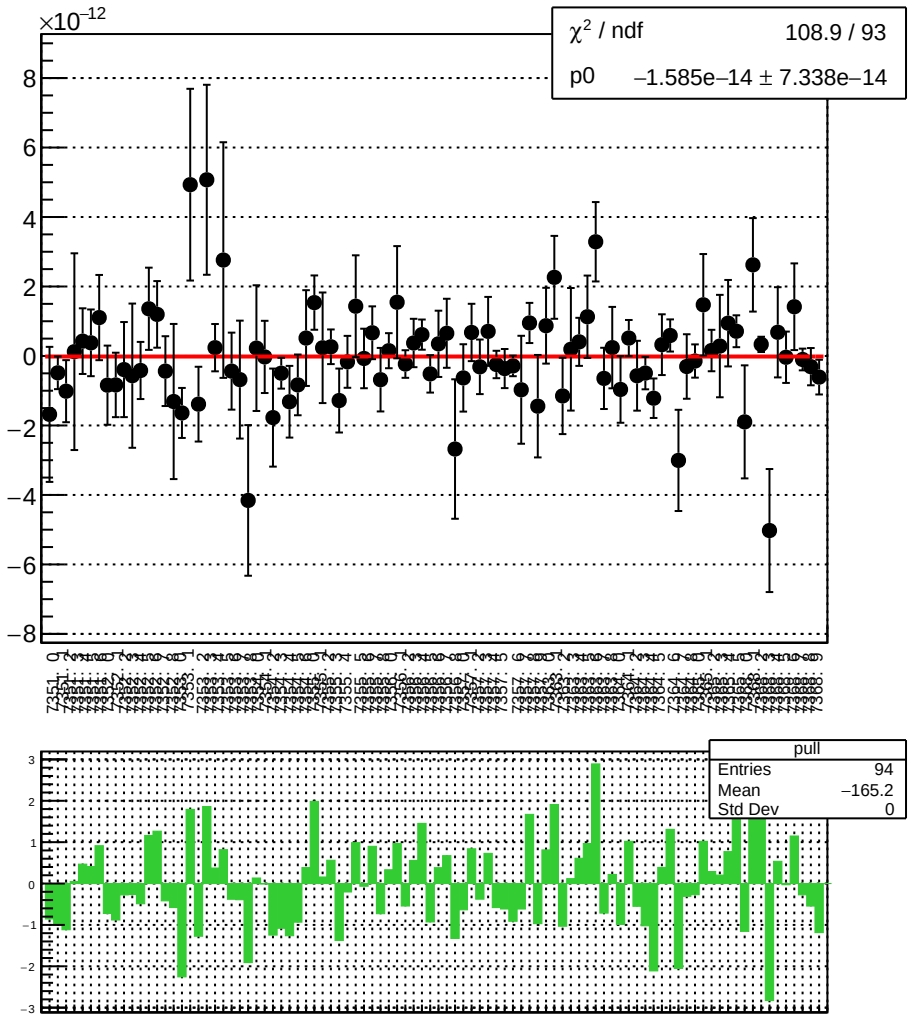

asym_atl1r2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.606e+05 / 93
p0 0.01582 ± 1.357e−05
0.035
0.03
0.025
0.02
0.015
0.01
0.005

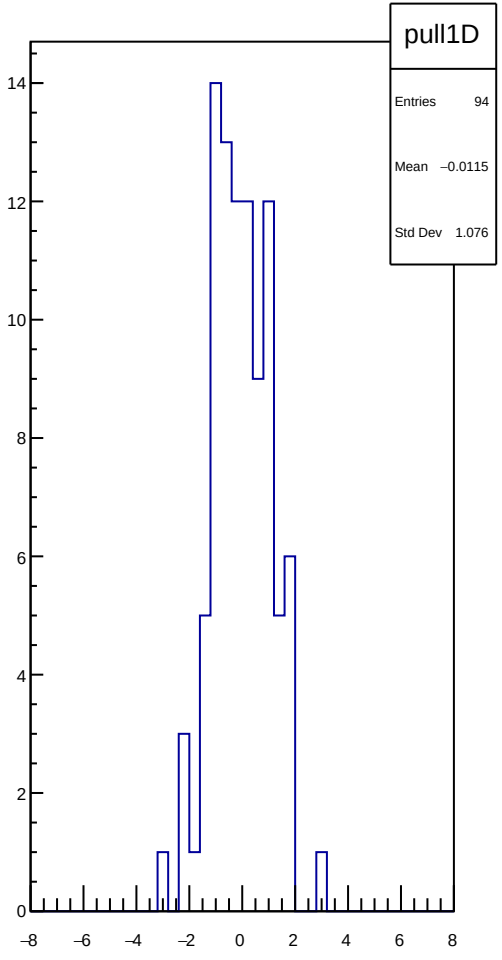

asym_atl1r2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 96.18 / 93
p0 0.5364 ± 0.5013
pull
Entries 94
Mean −13.26
Std Dev 0
pull1D
Entries 94
Mean −0.03199
Std Dev 1.011

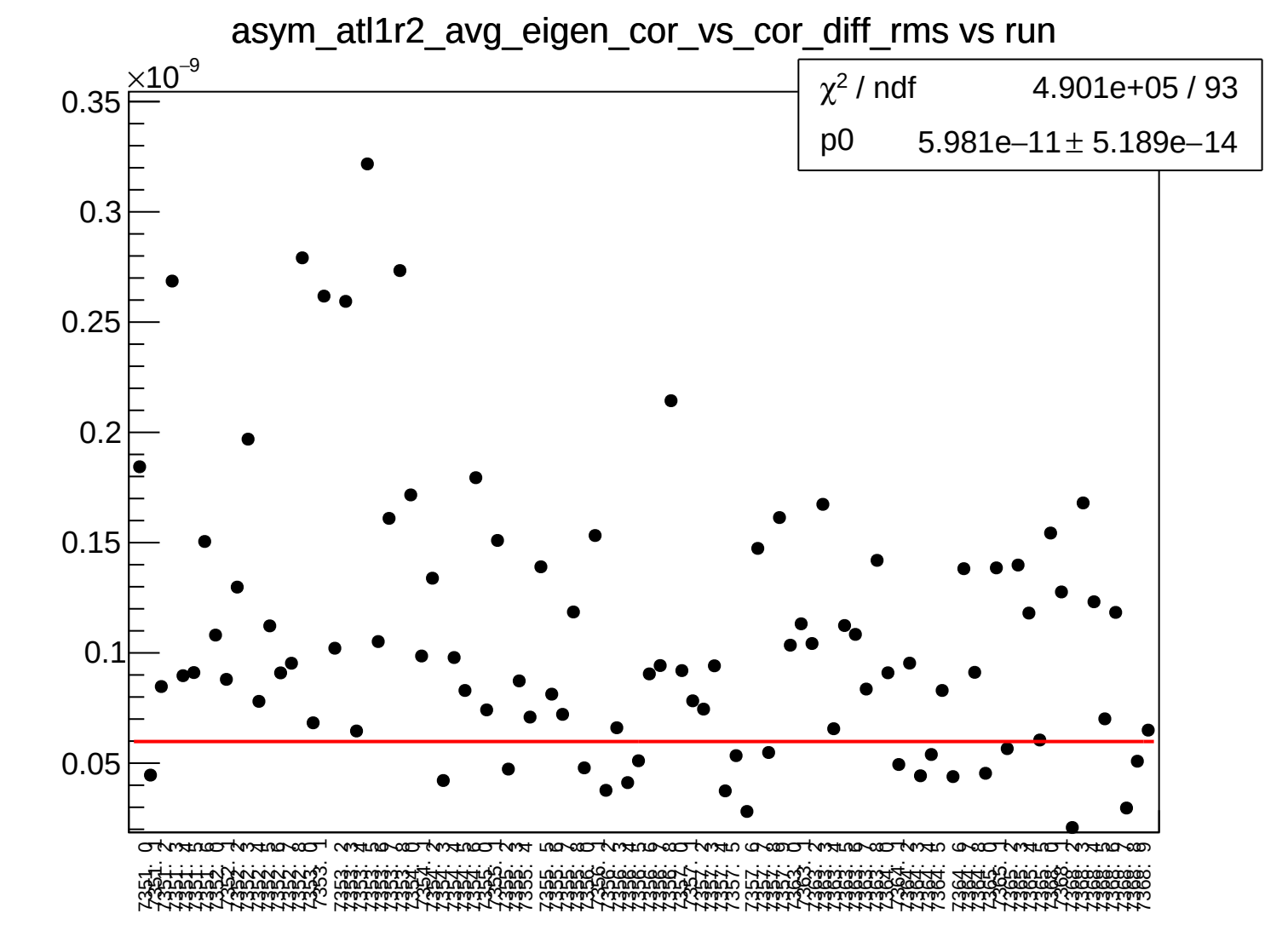

asym_atl1r2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.387e+05 / 93
p0 459.4 ± 0.3545
1400
1200
1000
800
600
400
200

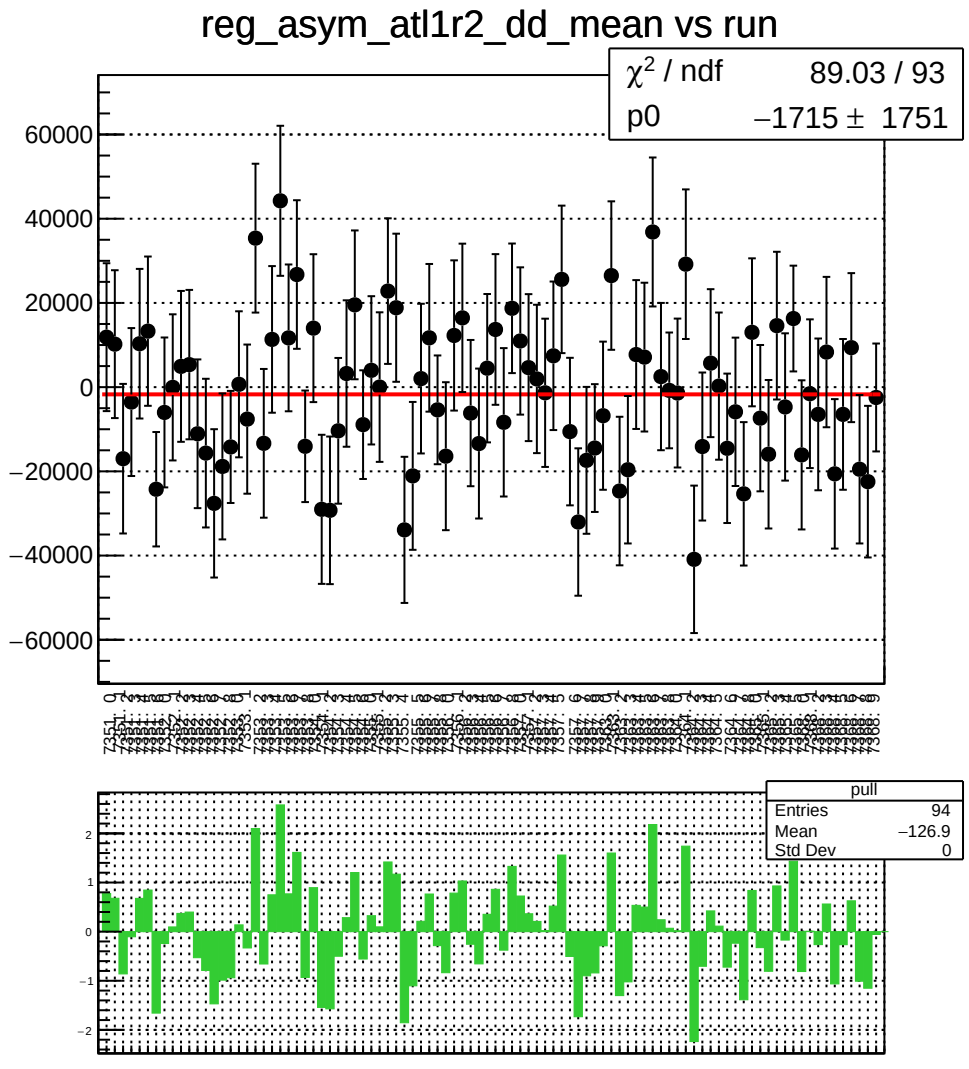

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.18 / 93
p0 0.5364 ± 0.5013
pull
Entries 94
Mean −13.26
Std Dev 0
pull1D
Entries 94
Mean −0.03199
Std Dev 1.011

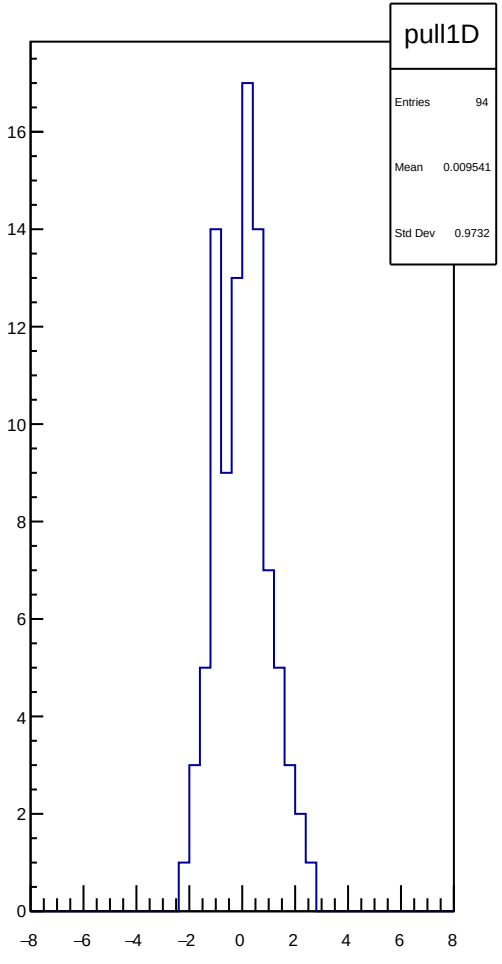

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.387e+05 / 93
p0 459.4 ± 0.3545
1400
1200
1000
800
600
400
200

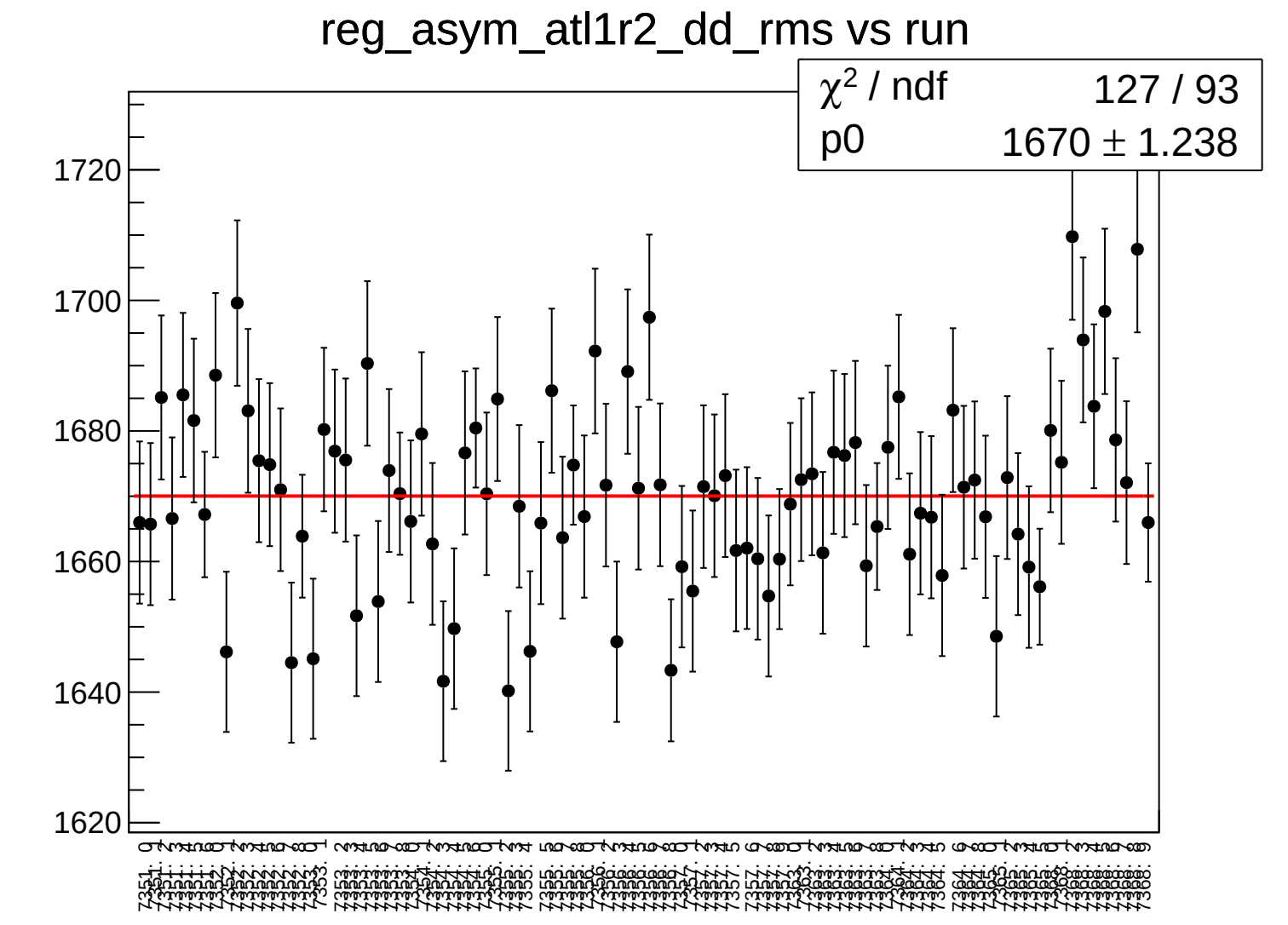

asym_atl1r2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 108.9 / 93
p0 −1.585e−14 ± 7.338e−14
pull
Entries 94
Mean −165.2
Std Dev 0

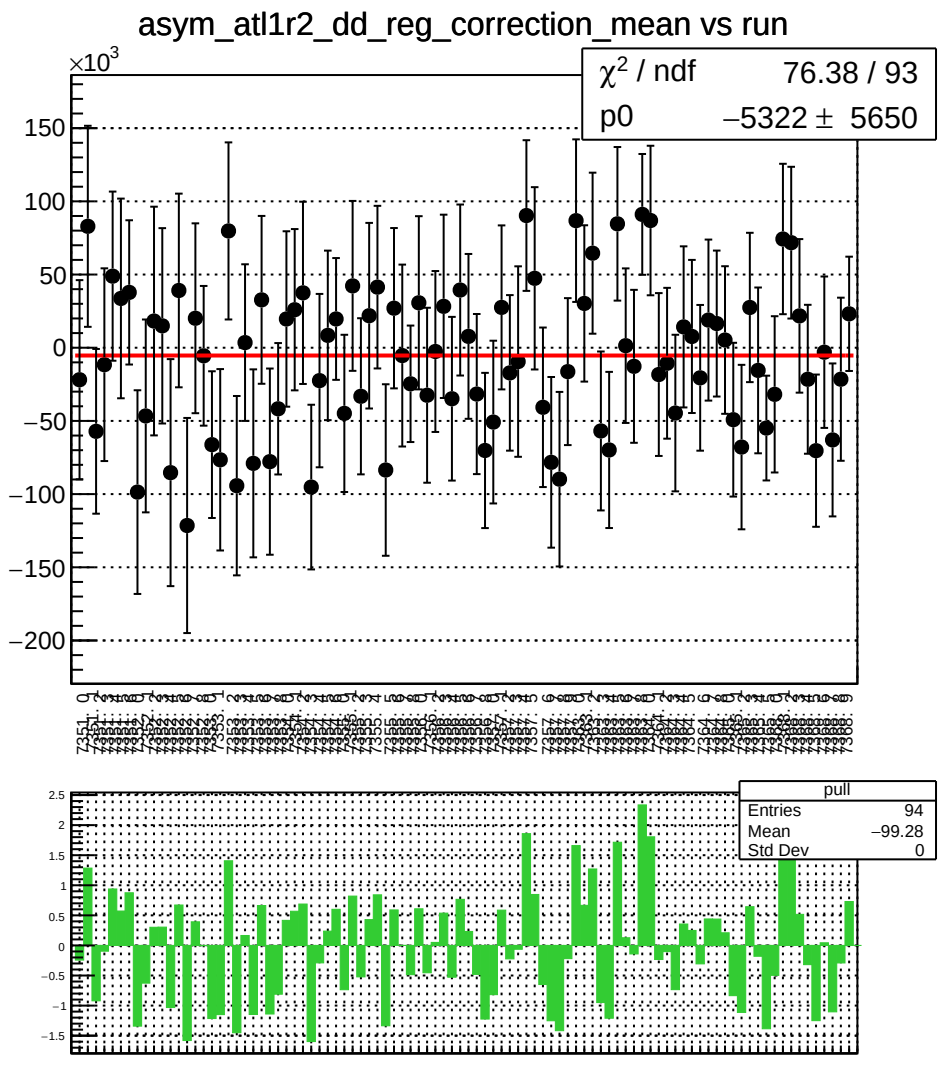

pull1D
Entries 94
Mean −0.0115
Std Dev 1.076

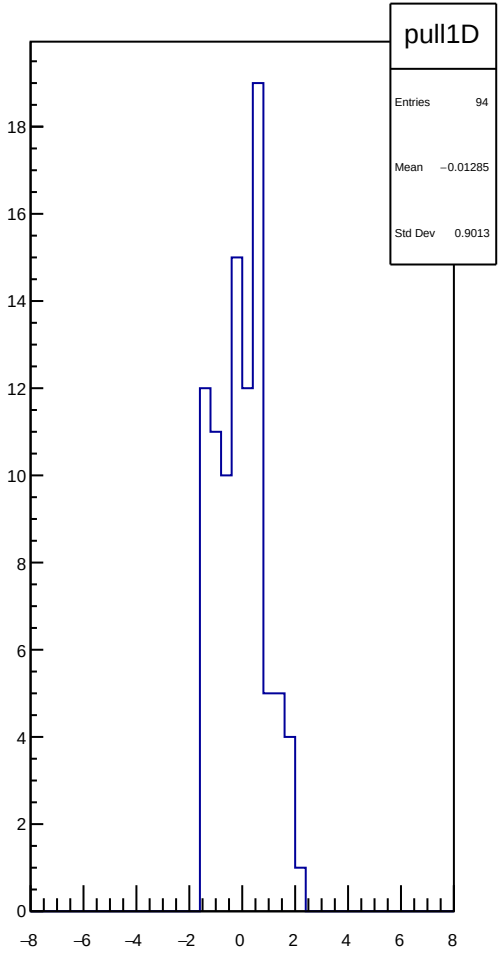

asym_atl1r2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.901e+05 / 93
p0 5.981e−11 ± 5.189e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

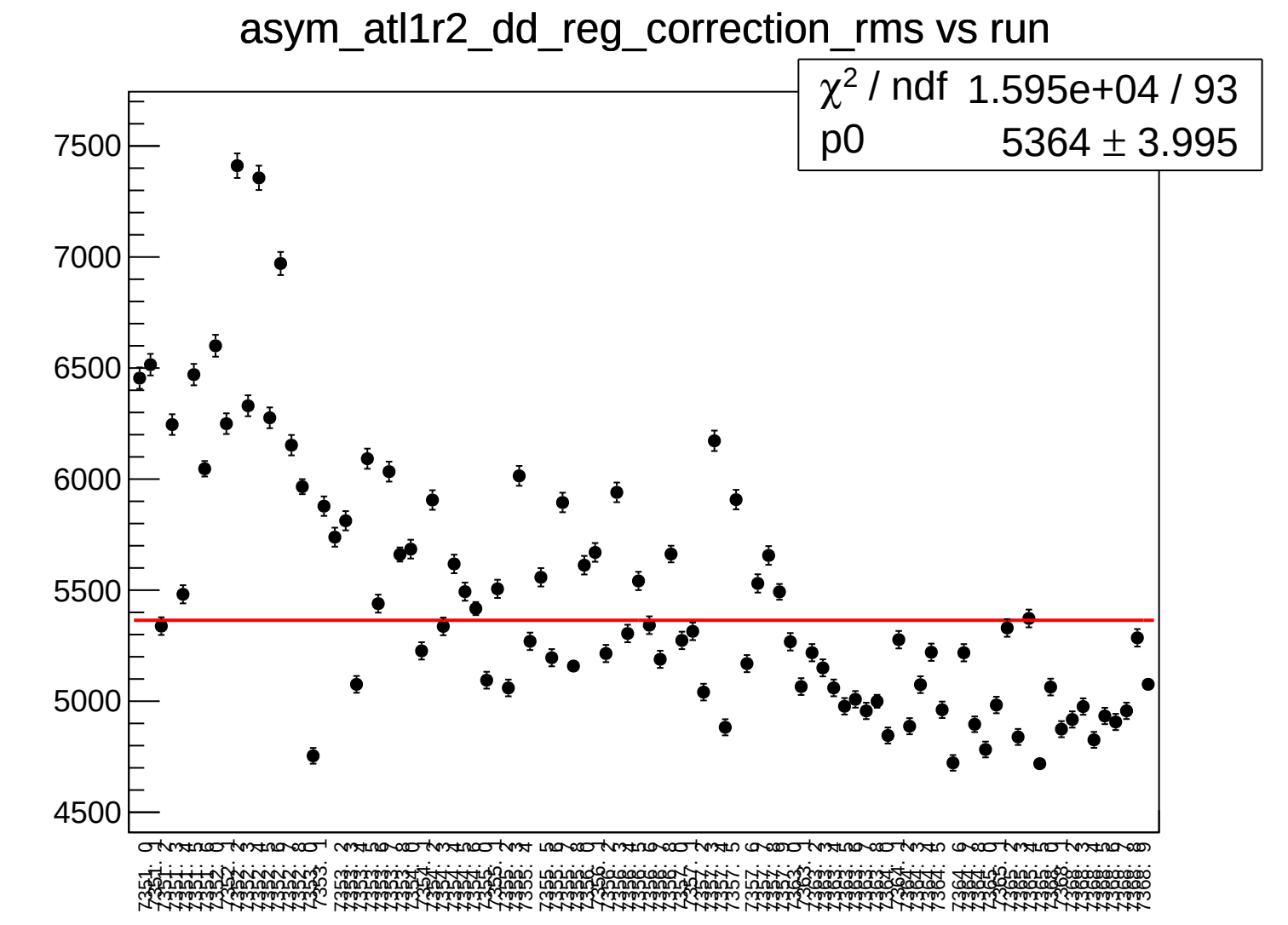

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 89.03 / 93
p0 −1715 ± 1751
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −126.9
Std Dev 0
2
1
0
−1
−2

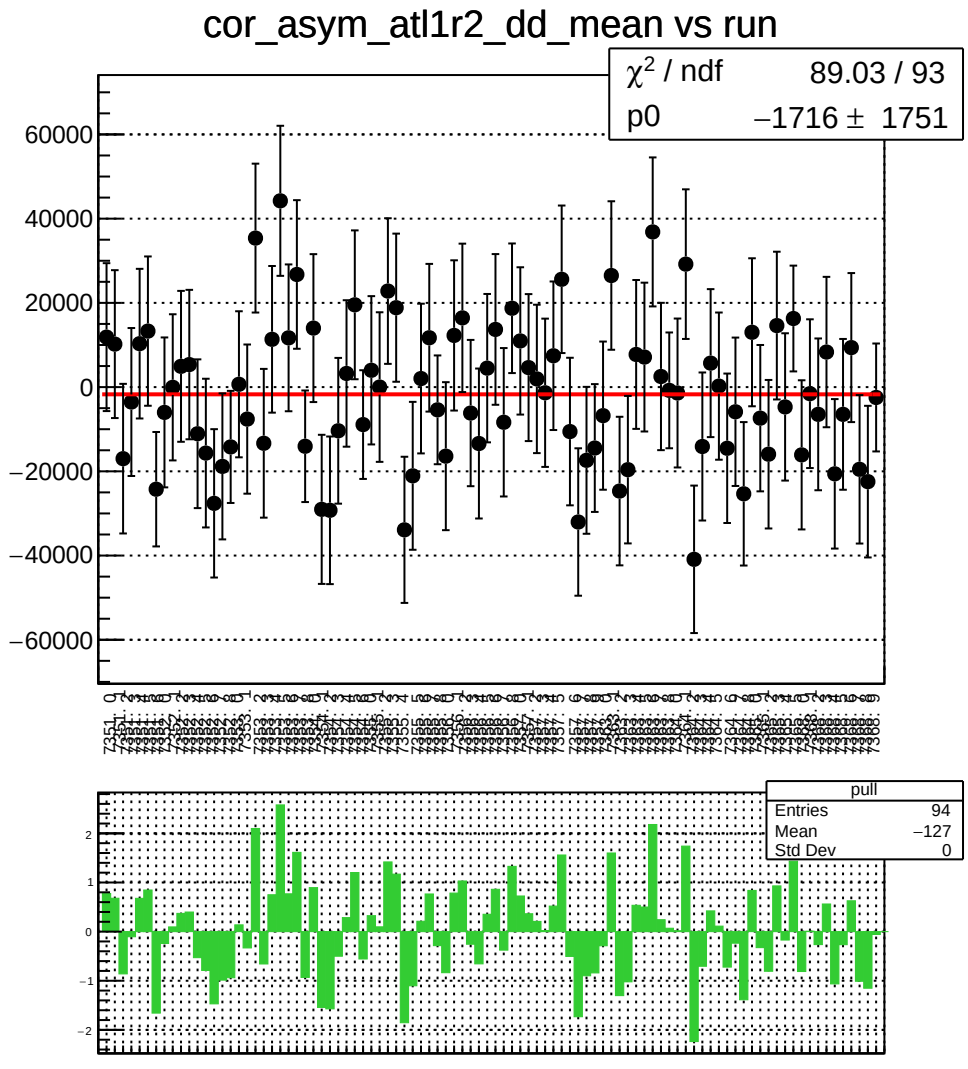

pull1D
Entries 94
Mean 0.009541
Std Dev 0.9732
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

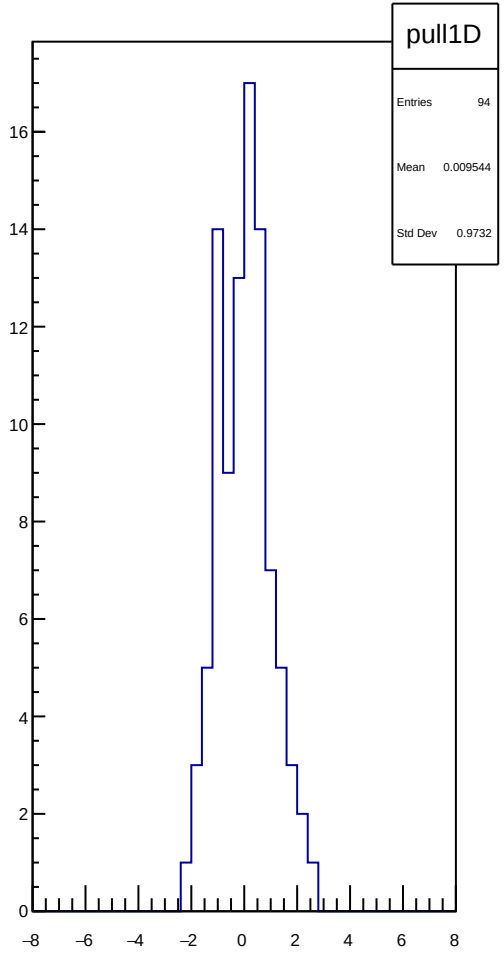

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 127 / 93
p0 1670 ± 1.238
1720
1700
1680
1660
1640
1620

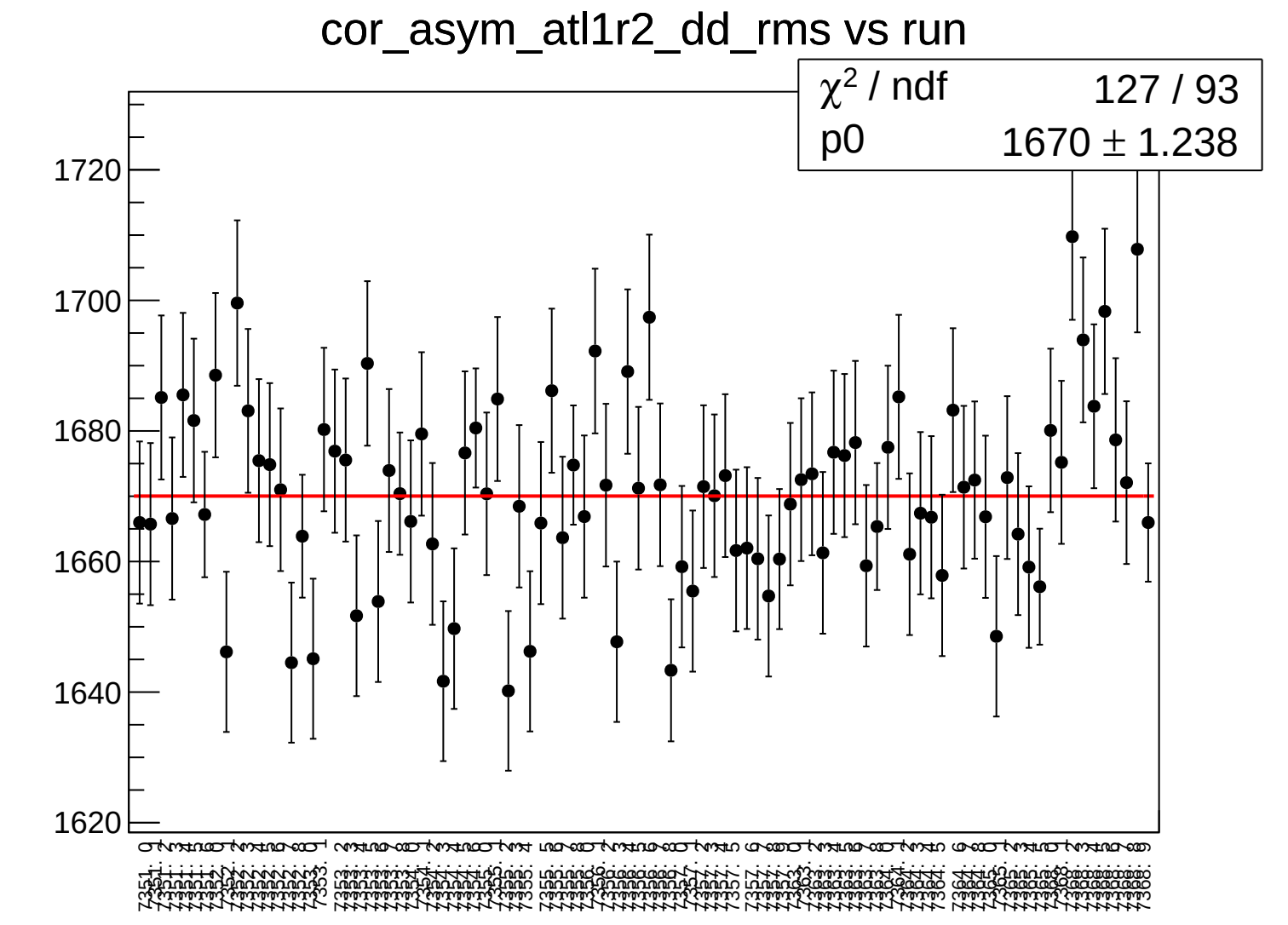

asym_atl1r2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 76.38 / 93
p0 −5322 ± 5650
150
100
50
0
−50
−100
−150
−200
pull
Entries 94
Mean −99.28
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

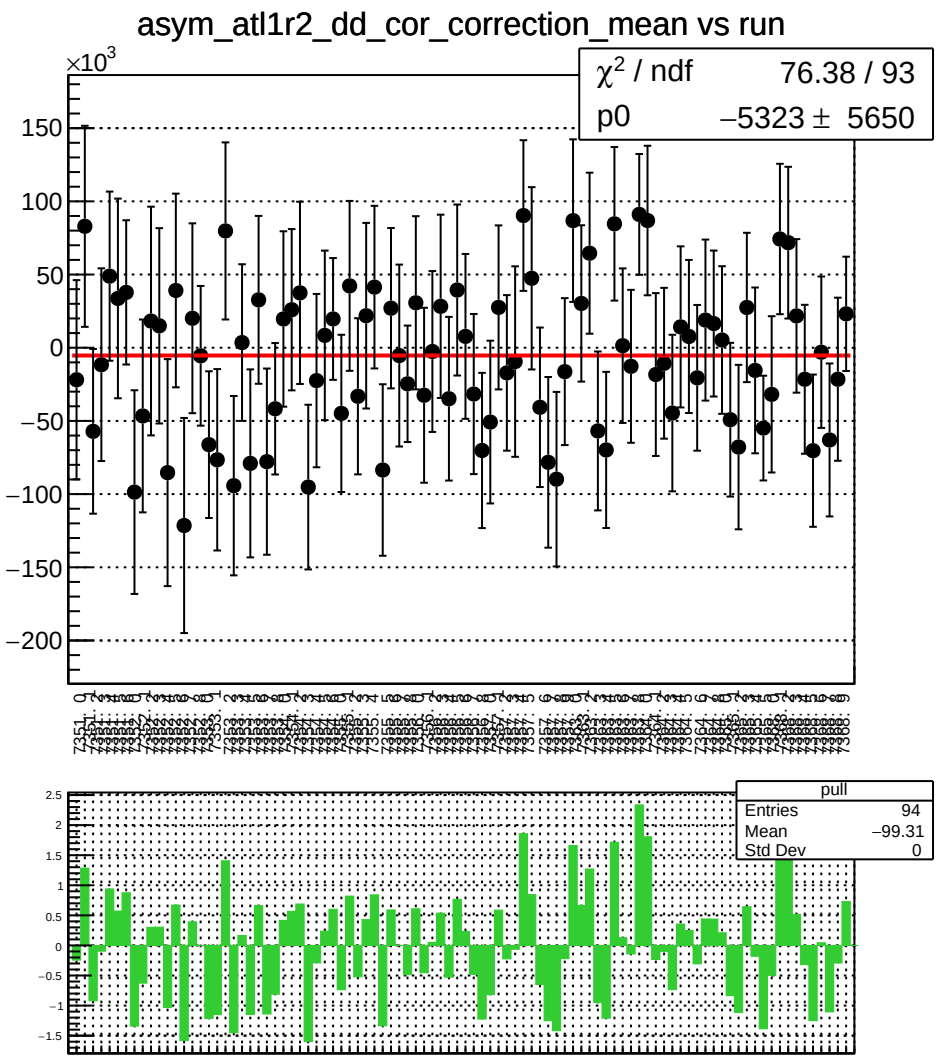

pull1D
Entries 94
Mean −0.01285
Std Dev 0.9013
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

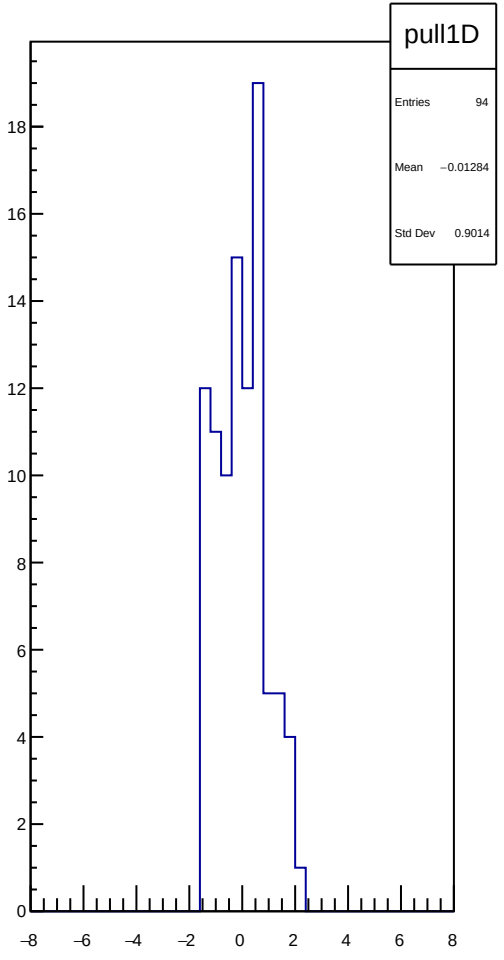

asym_atl1r2_dd_reg_correction_rms vs run
χ² / ndf 1.595e+04 / 93
p0 5364 ± 3.995
7500
7000
6500
6000
5500
5000
4500

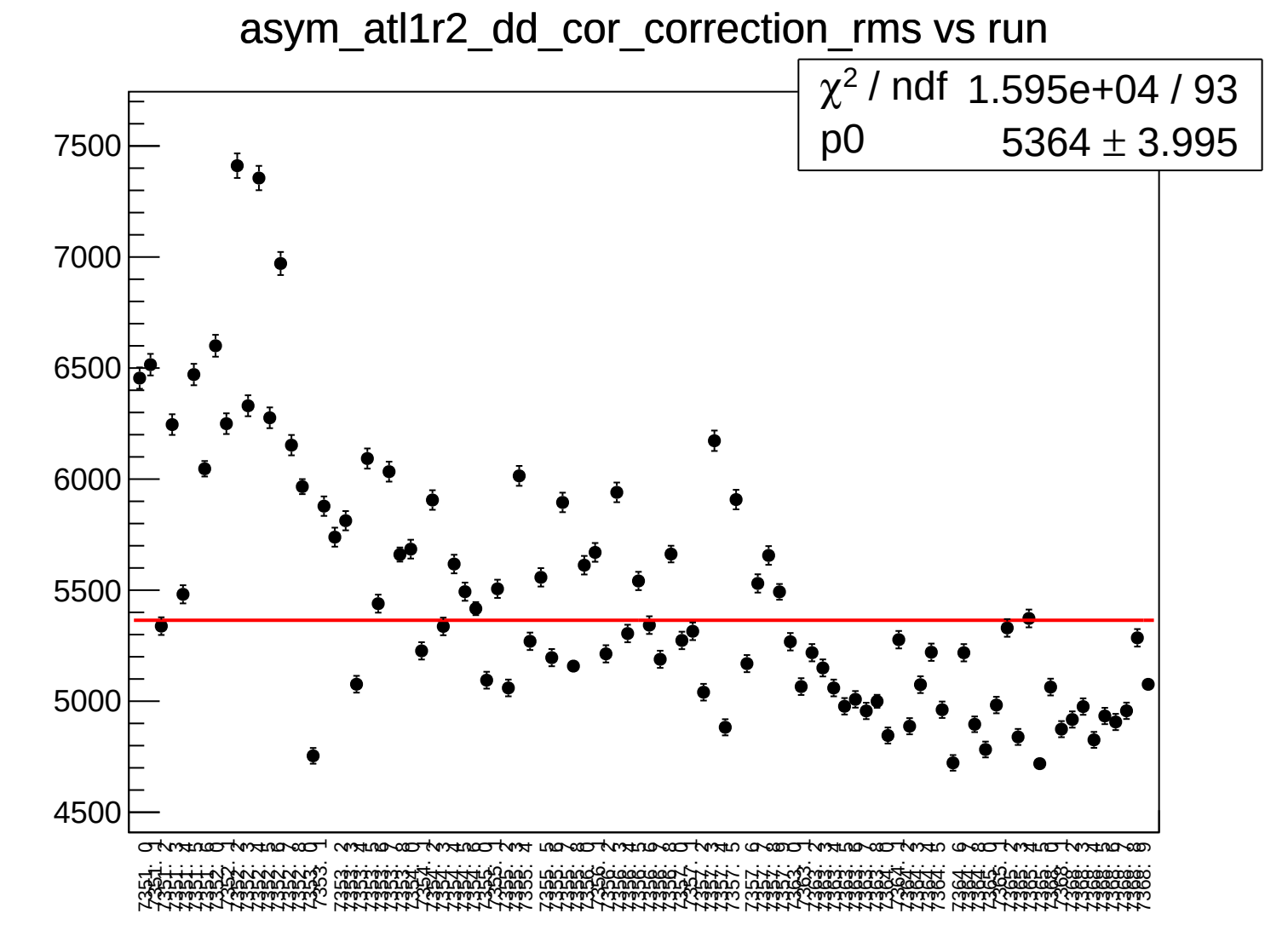

cor_asym_atl1r2_dd_mean vs run
χ² / ndf 89.03 / 93
p0 −1716 ± 1751
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −127
Std Dev 0
2
1
0
−1
−2

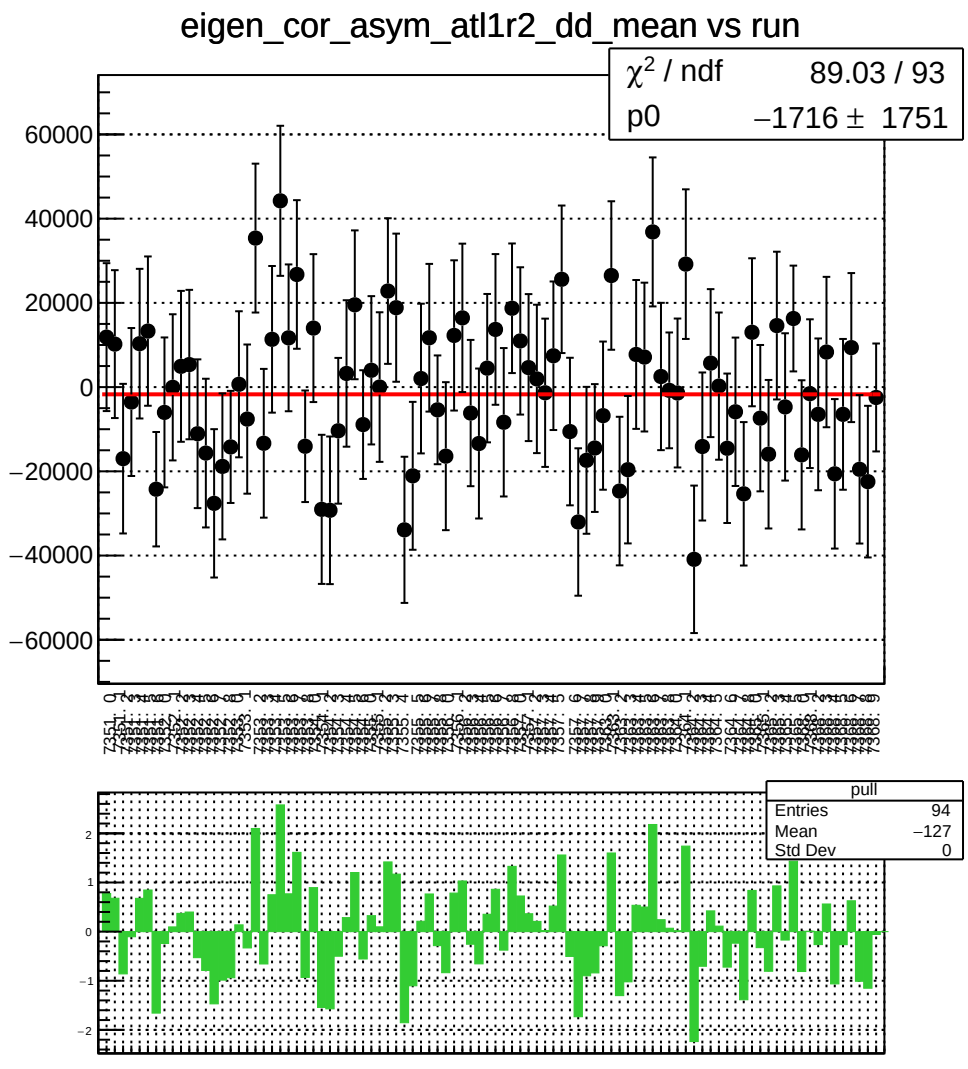

pull1D
Entries 94
Mean 0.009544
Std Dev 0.9732
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

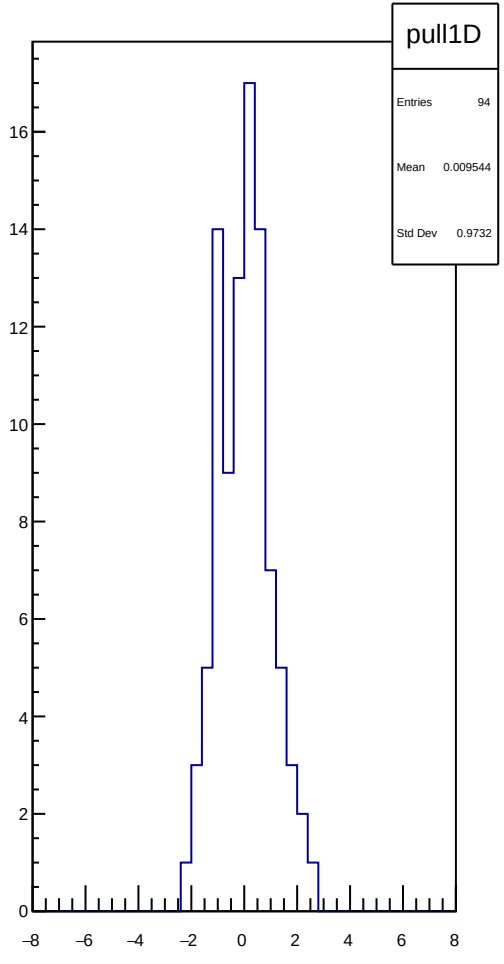

cor_asym_atl1r2_dd_rms vs run
χ² / ndf 127 / 93
p0 1670 ± 1.238
1720
1700
1680
1660
1640
1620

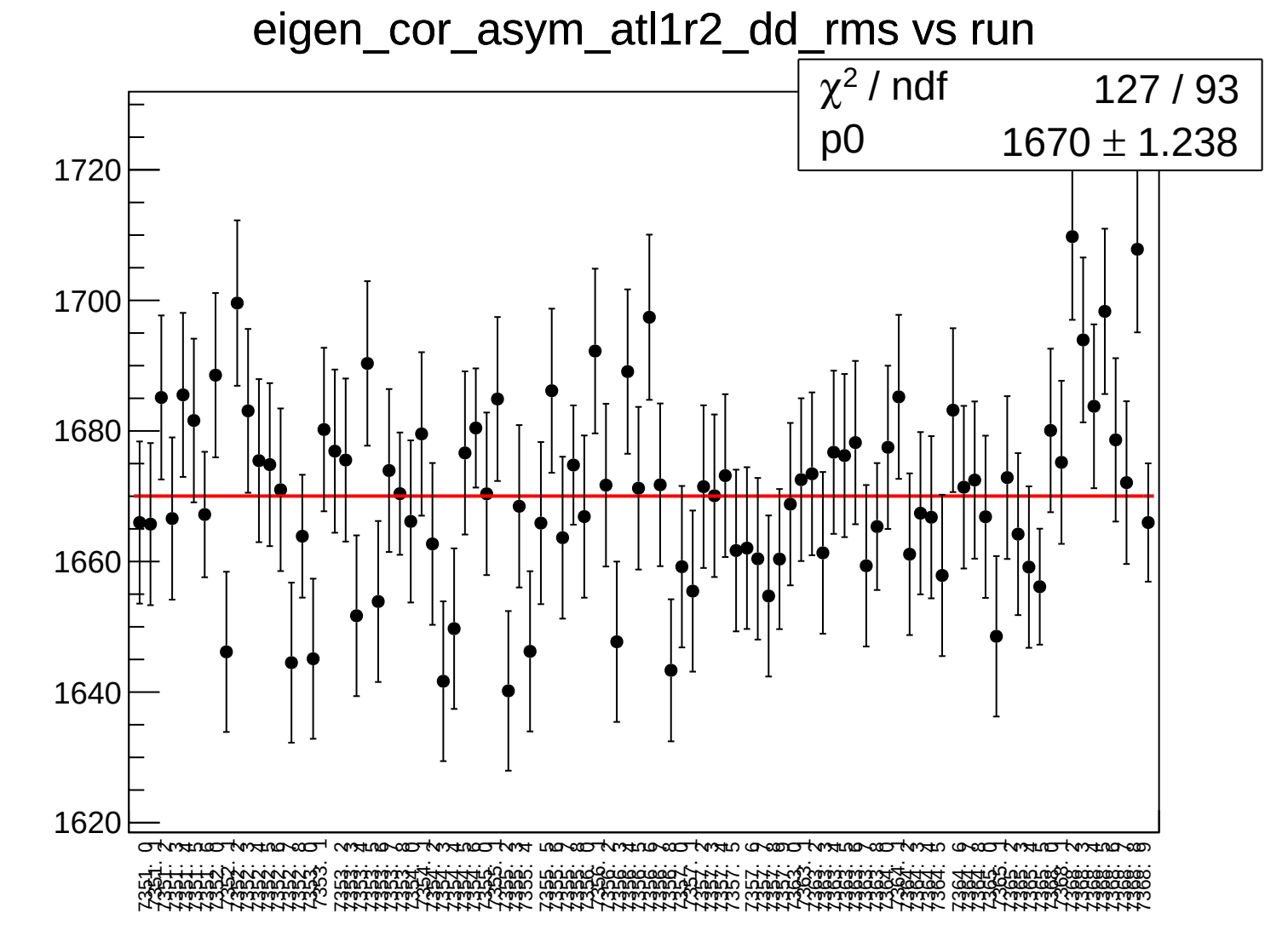

asym_atl1r2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 76.38 / 93
p0 −5323 ± 5650
150
100
50
0
−50
−100
−150
−200
pull
Entries 94
Mean −99.31
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

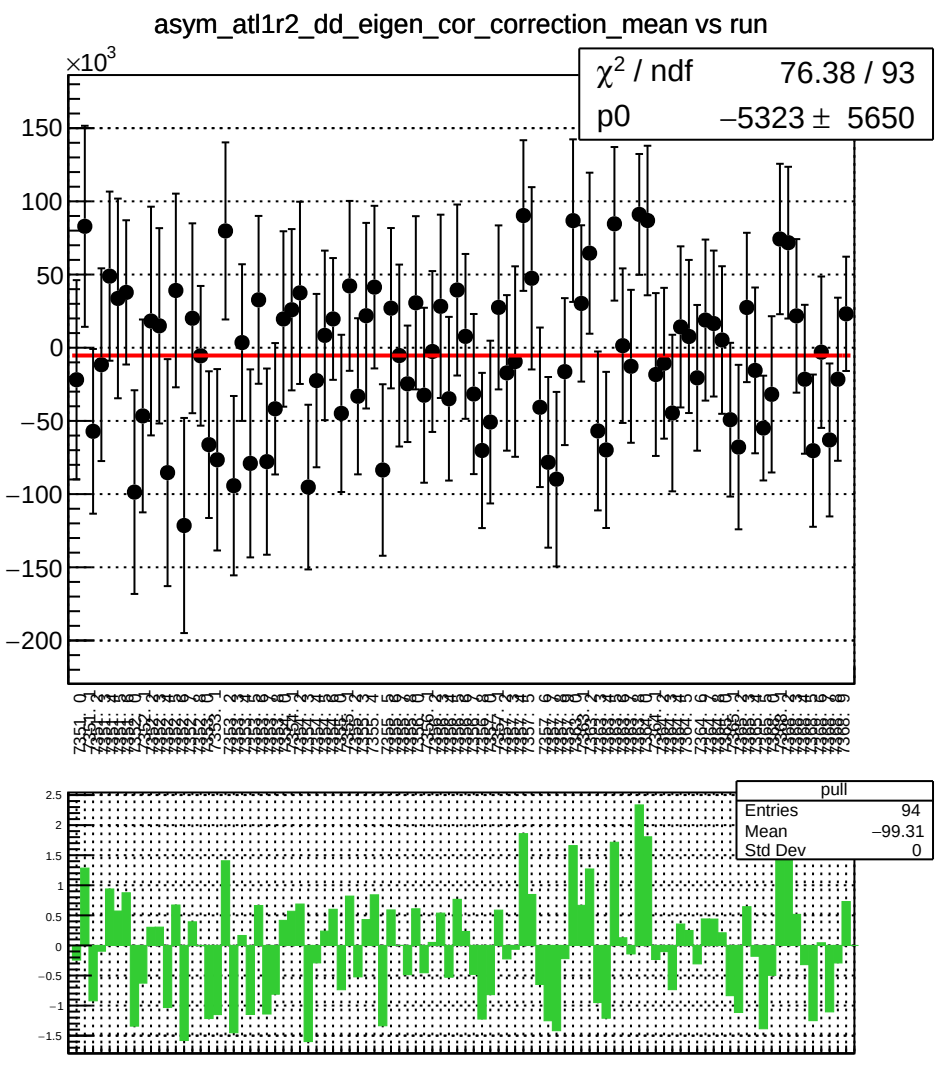

pull1D
Entries 94
Mean −0.01284
Std Dev 0.9014
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

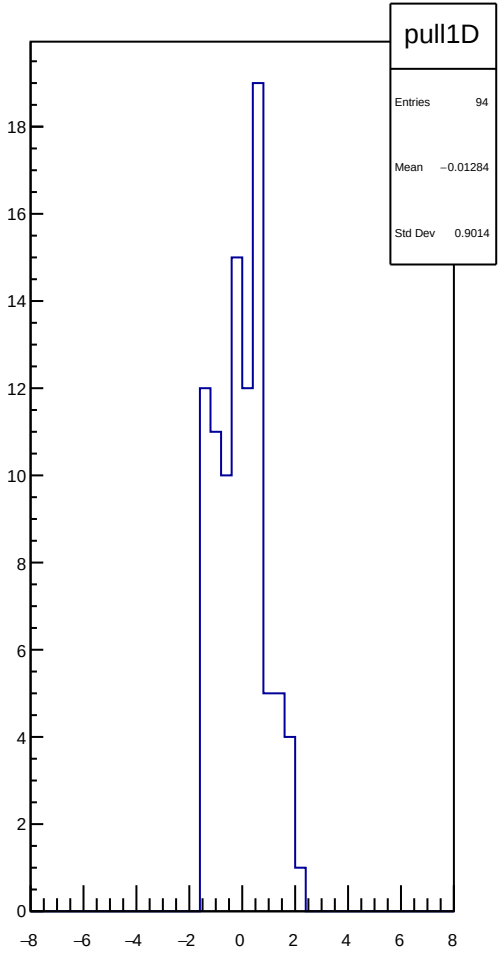

asym_atl1r2_dd_cor_correction_rms vs run
χ² / ndf 1.595e+04 / 93
p0 5364 ± 3.995
7500
7000
6500
6000
5500
5000
4500

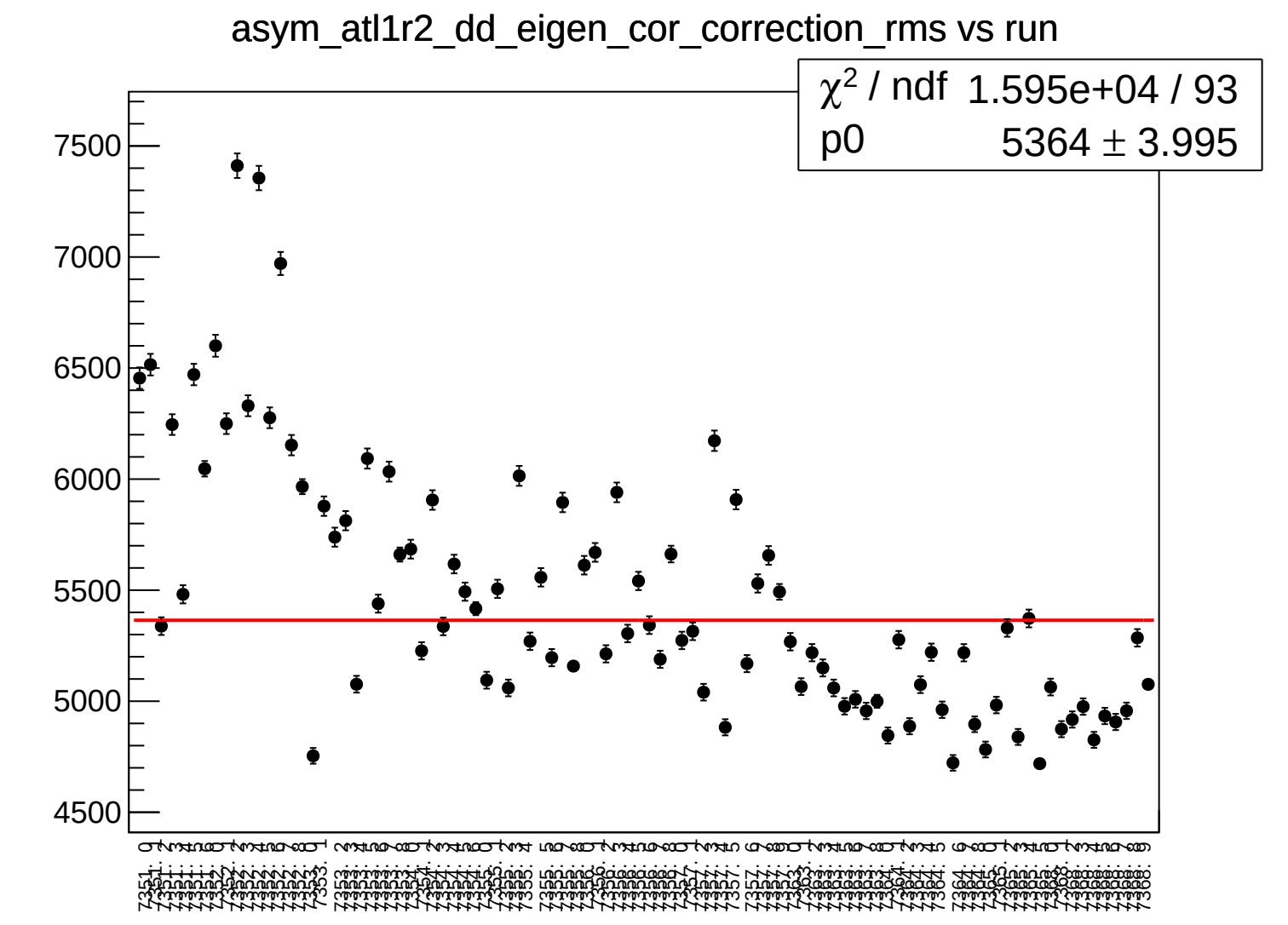

eigen_cor_asym_atl1r2_dd_mean vs run
χ² / ndf 89.03 / 93
p0 −1716 ± 1751
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −127
Std Dev 0
2
1
0
−1
−2

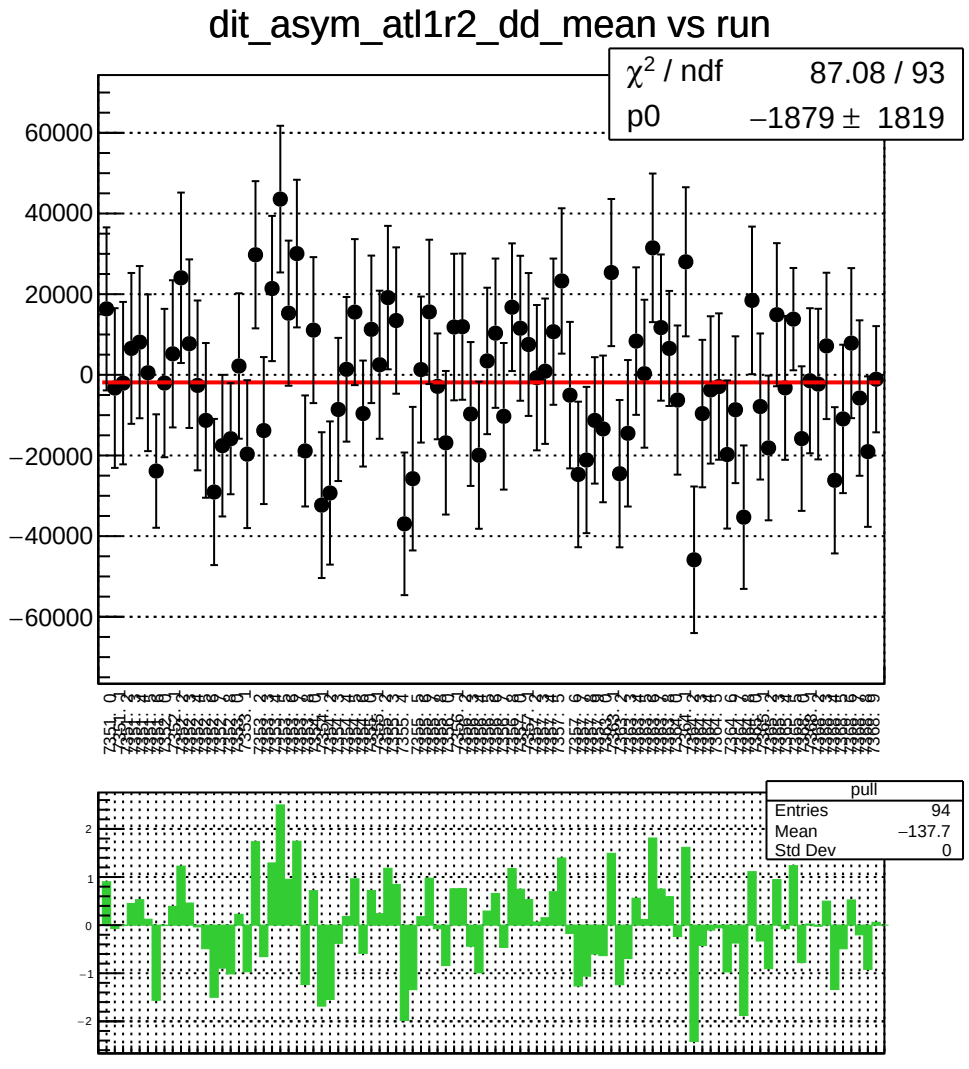

pull1D
Entries 94
Mean 0.009544
Std Dev 0.9732
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

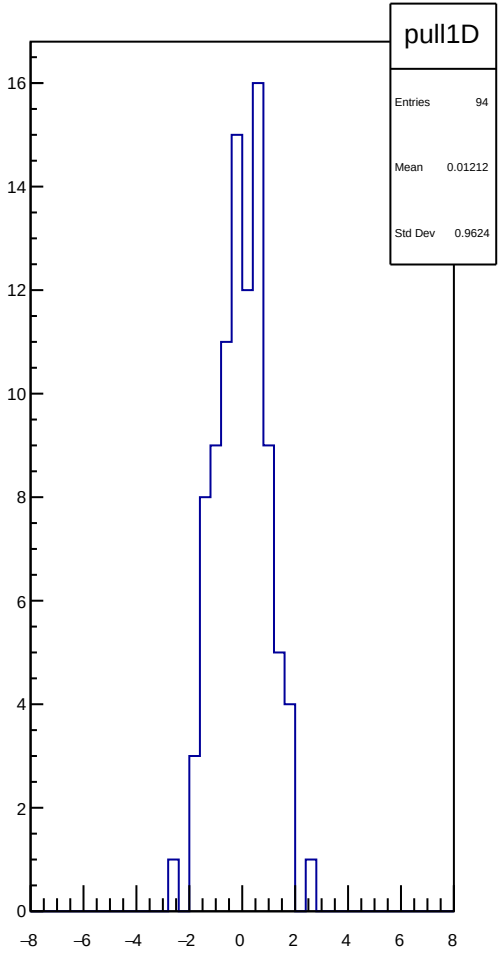

eigen_cor_asym_atl1r2_dd_rms vs run
χ^2 / ndf 127 / 93
p0 1670 ± 1.238
1720
1700
1680
1660
1640
1620

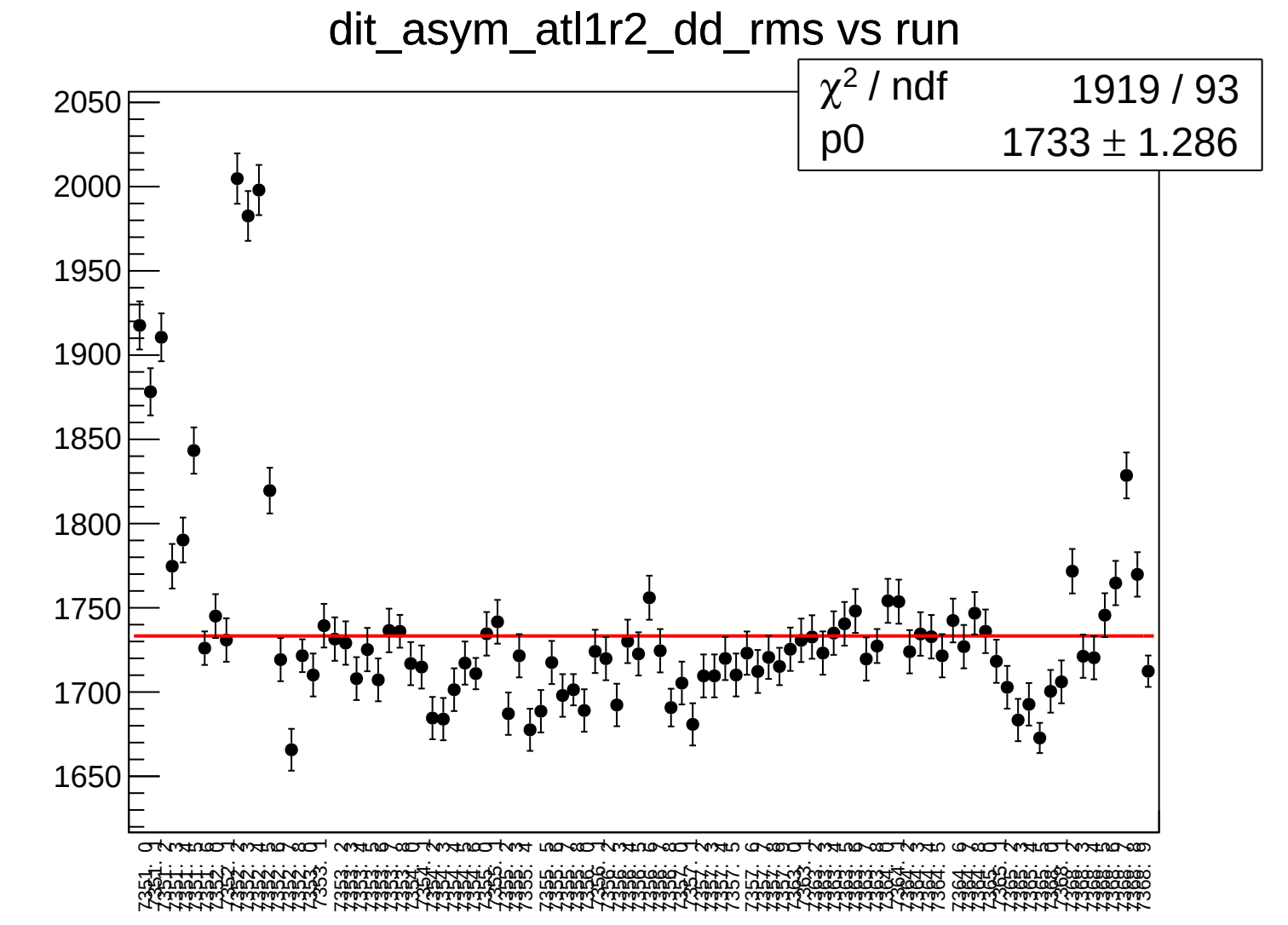

asym_atl1r2_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 76.38 / 93
p0 −5323 ± 5650
150
100
50
0
−50
−100
−150
−200
pull
Entries 94
Mean −99.31
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

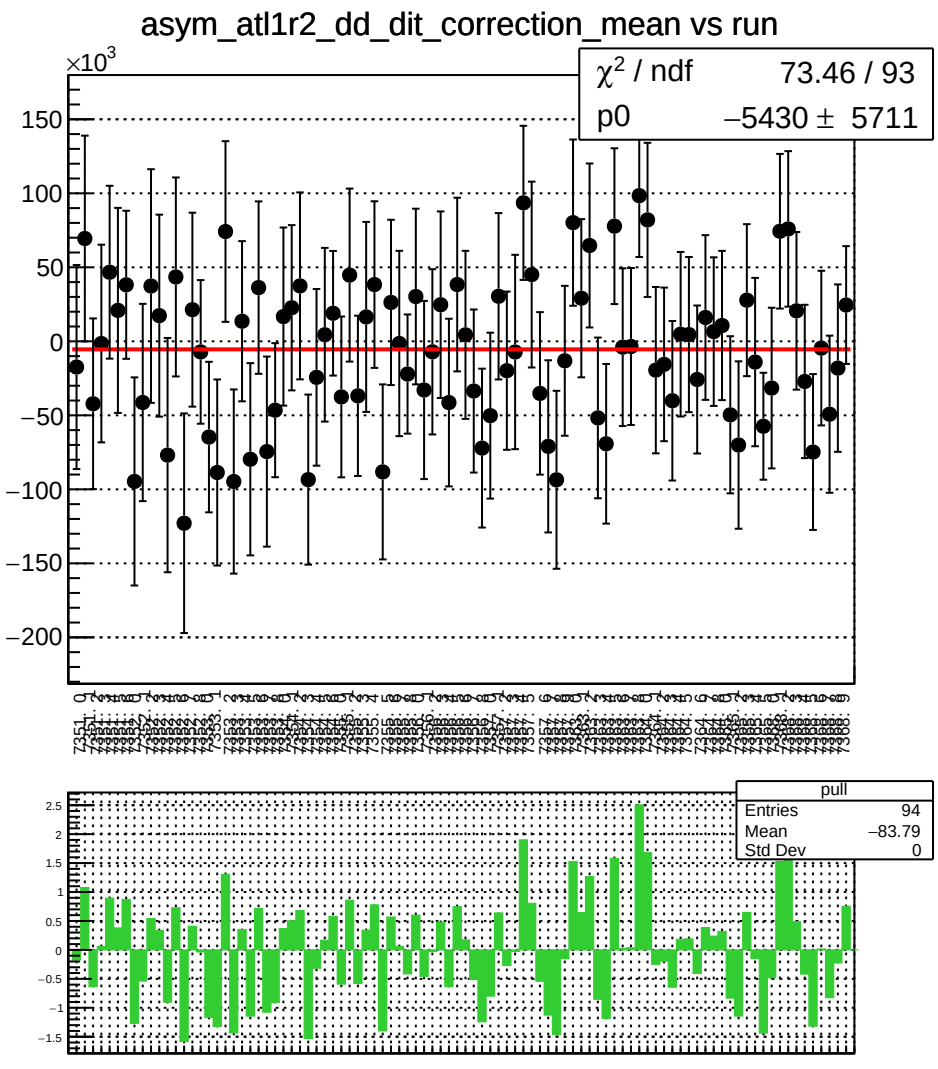

pull1D
Entries 94
Mean −0.01284
Std Dev 0.9014
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

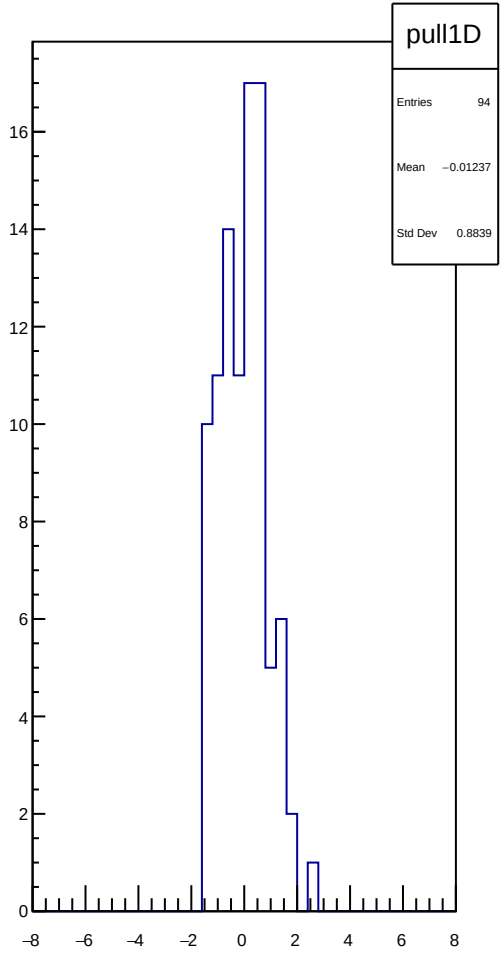

asym_atl1r2_dd_eigen_cor_correction_rms vs run
χ^2 / ndf 1.595e+04 / 93
p0 5364 ± 3.995
7500
7000
6500
6000
5500
5000
4500

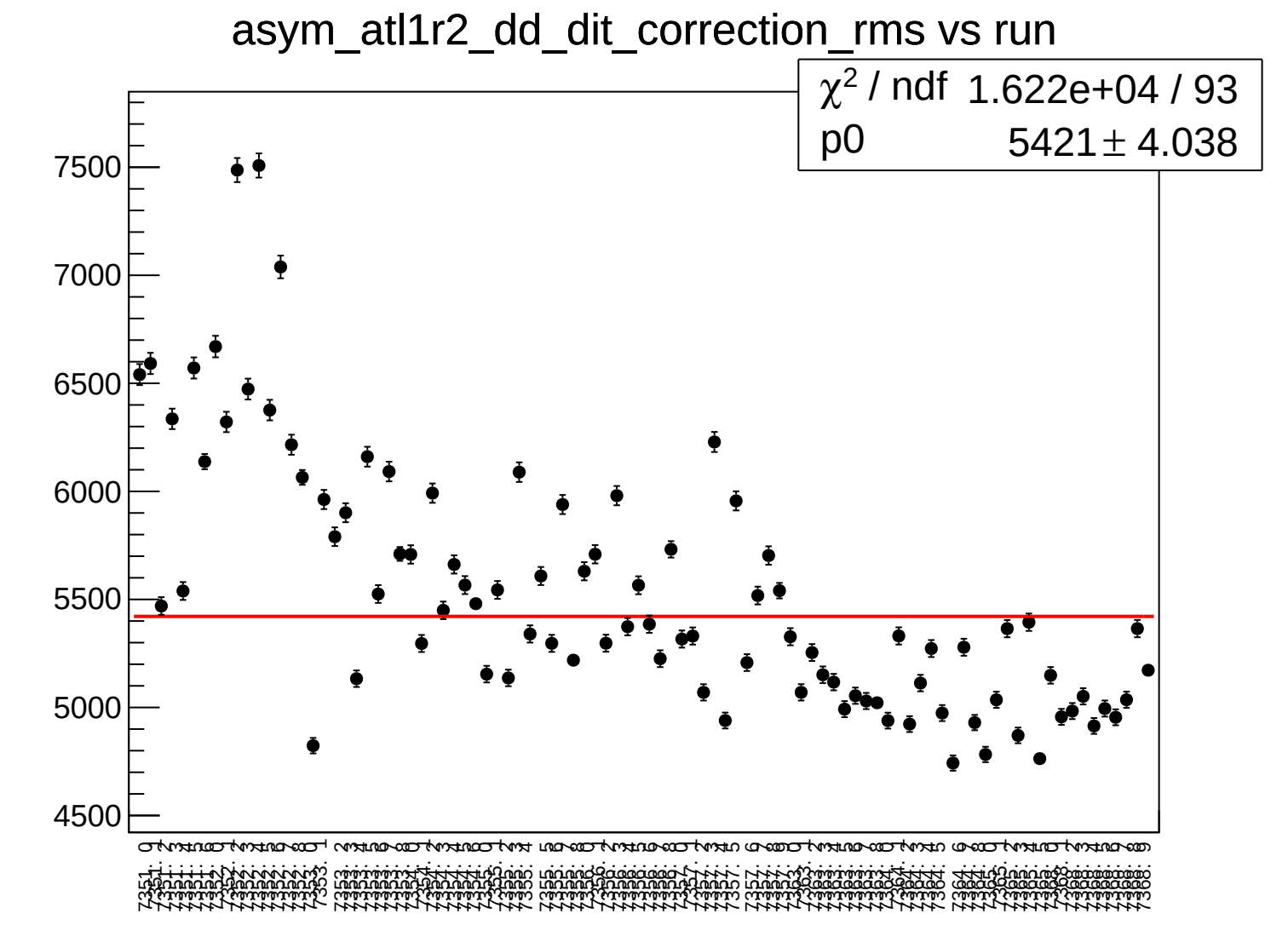

dit_asym_atl1r2_dd_mean vs run
χ² / ndf 87.08 / 93
p0 −1879 ± 1819
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −137.7
Std Dev 0
2
1
0
−1
−2

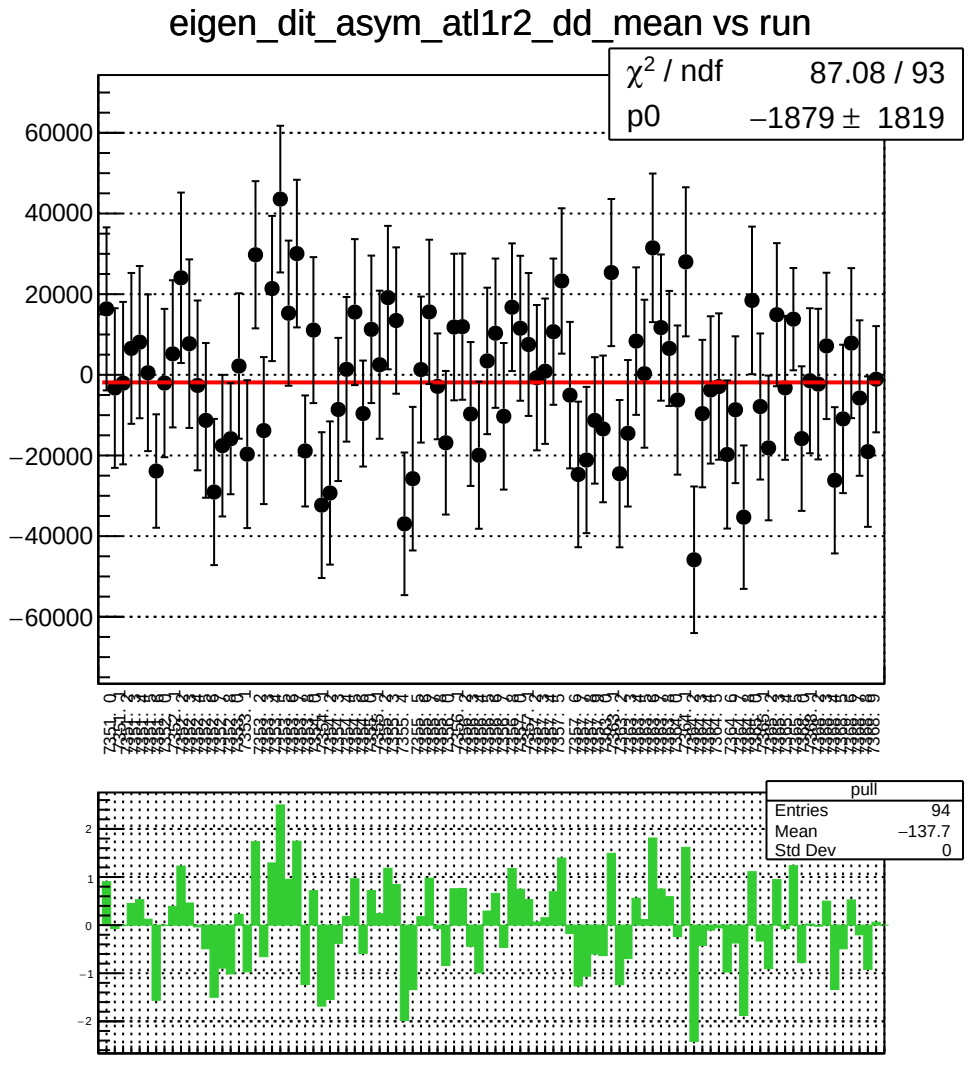

pull1D
Entries 94
Mean 0.01212
Std Dev 0.9624
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

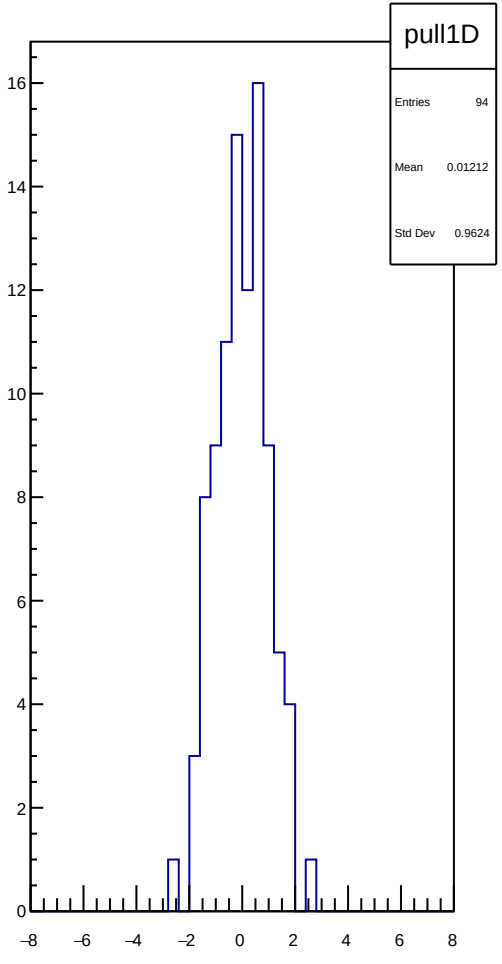

dit_asym_atl1r2_dd_rms vs run
χ^2 / ndf 1919 / 93
p0 1733 ± 1.286
2050
2000
1950
1900
1850
1800
1750
1700
1650

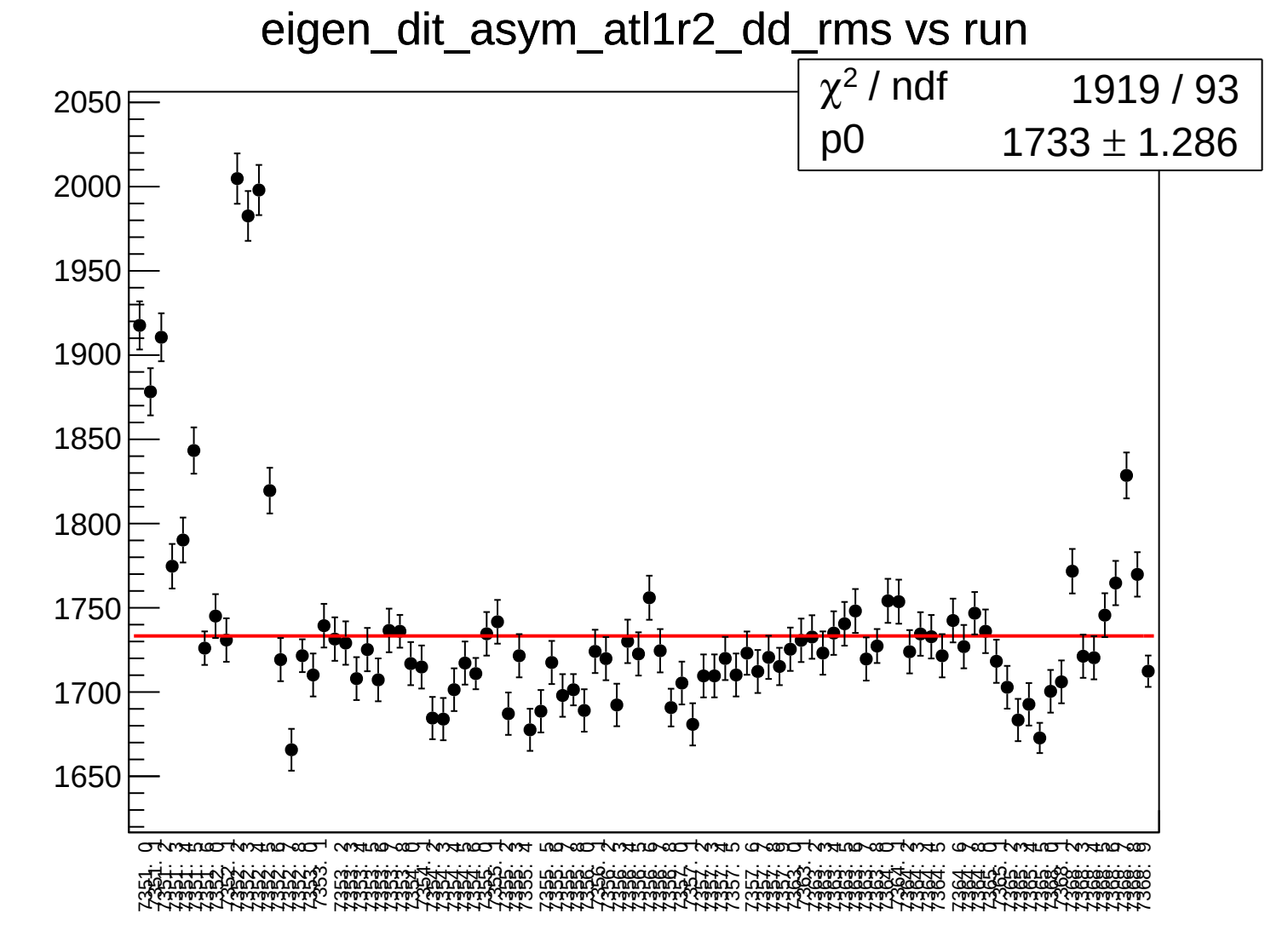

asym_atl1r2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 73.46 / 93
p0 −5430 ± 5711
150
100
50
0
−50
−100
−150
−200
pull
Entries 94
Mean −83.79
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

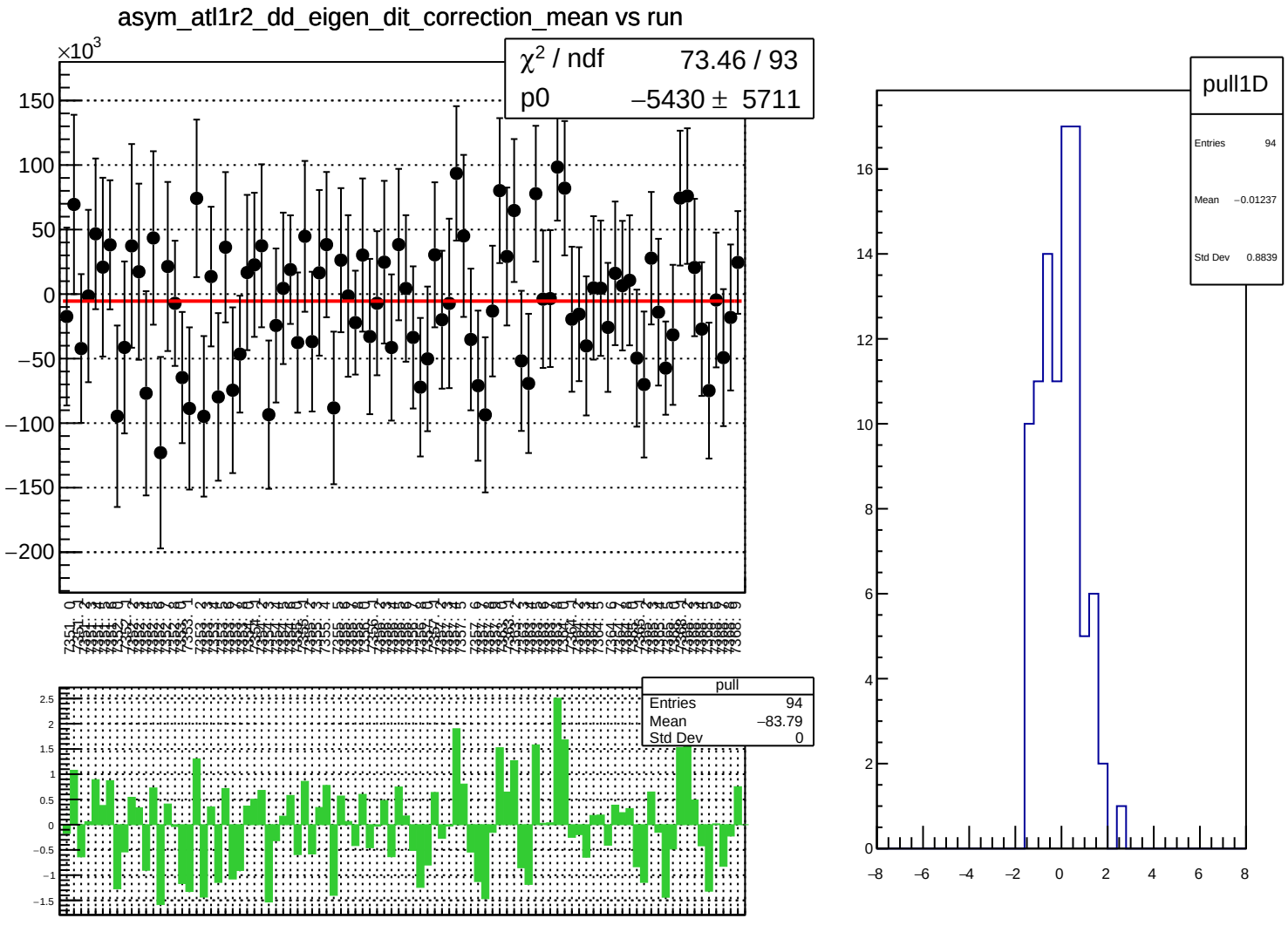

pull1D
Entries 94
Mean −0.01237
Std Dev 0.8839
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

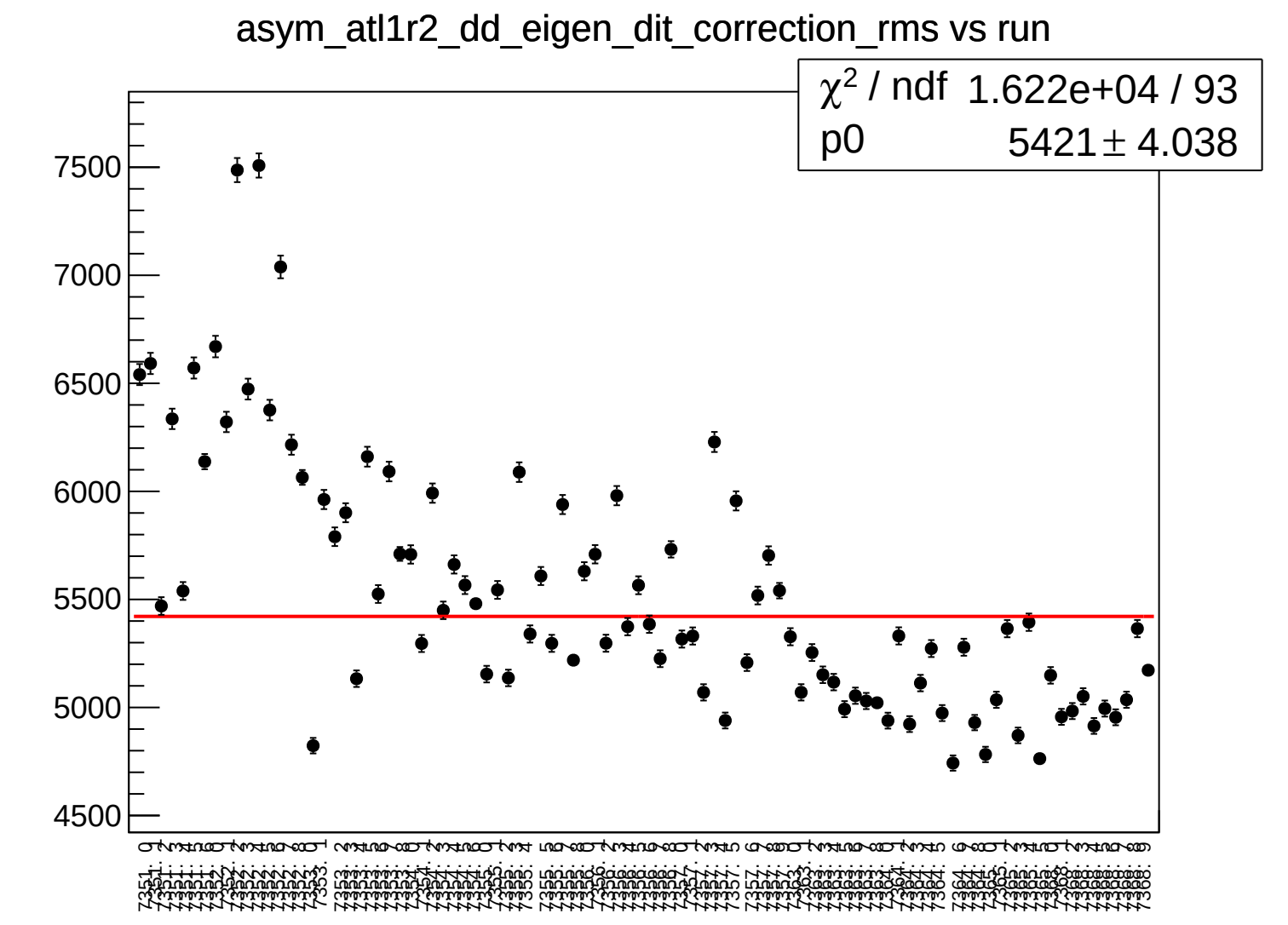

asym_atl1r2_dd_dit_correction_rms vs run
χ² / ndf 1.622e+04 / 93
p0 5421 ± 4.038
7500
7000
6500
6000
5500
5000
4500

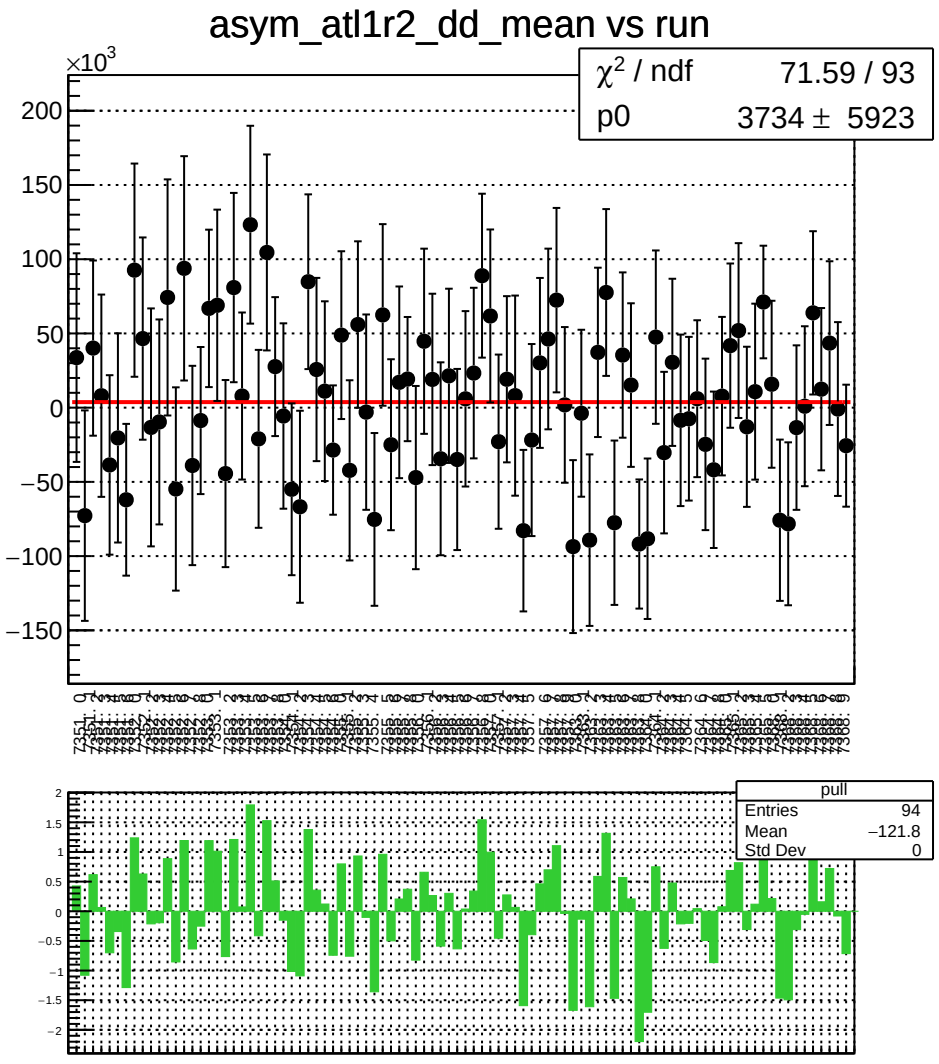

eigen_dit_asym_atl1r2_dd_mean vs run
χ² / ndf 87.08 / 93
p0 −1879 ± 1819
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −137.7
Std Dev 0
2
1
0
−1
−2

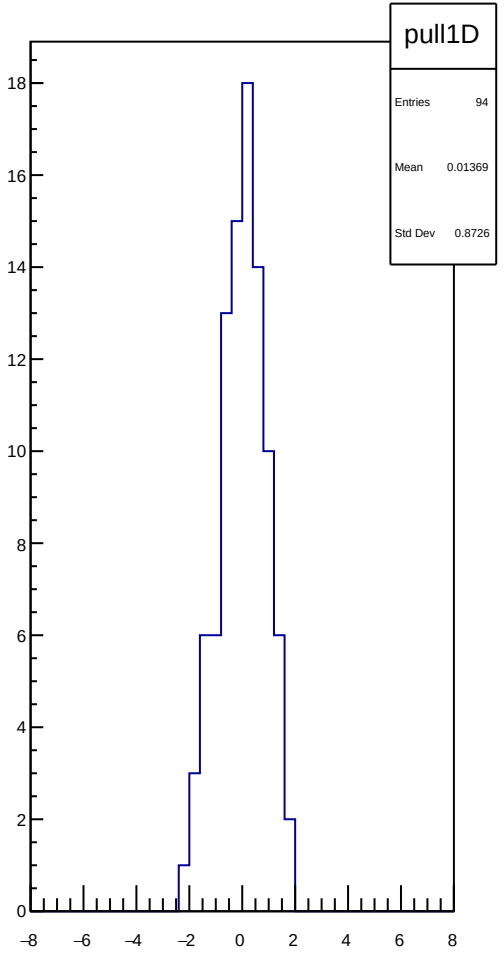

pull1D
Entries 94
Mean 0.01212
Std Dev 0.9624
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

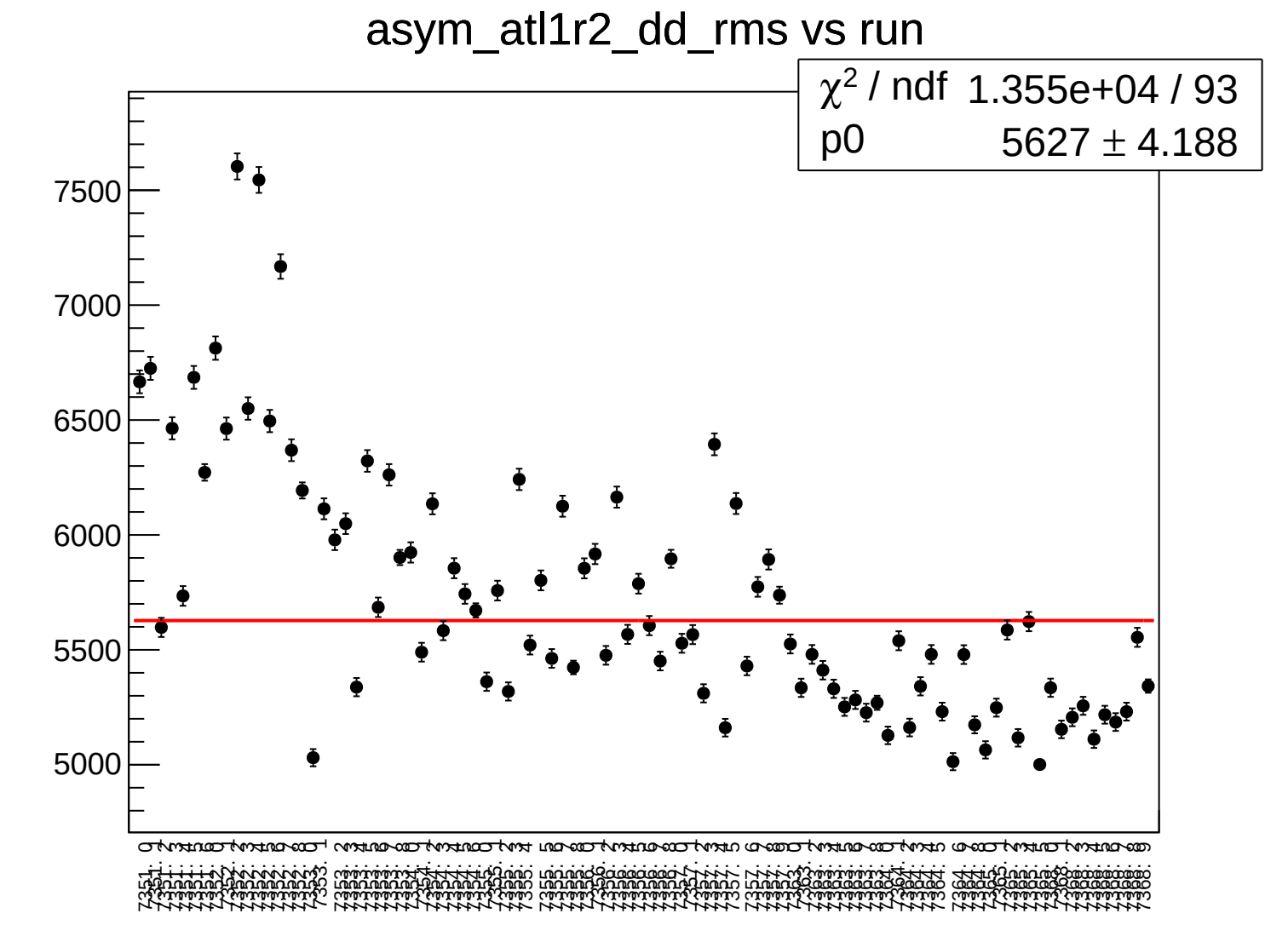

eigen_dit_asym_atl1r2_dd_rms vs run
χ^2 / ndf 1919 / 93
p0 1733 ± 1.286
2050
2000
1950
1900
1850
1800
1750
1700
1650

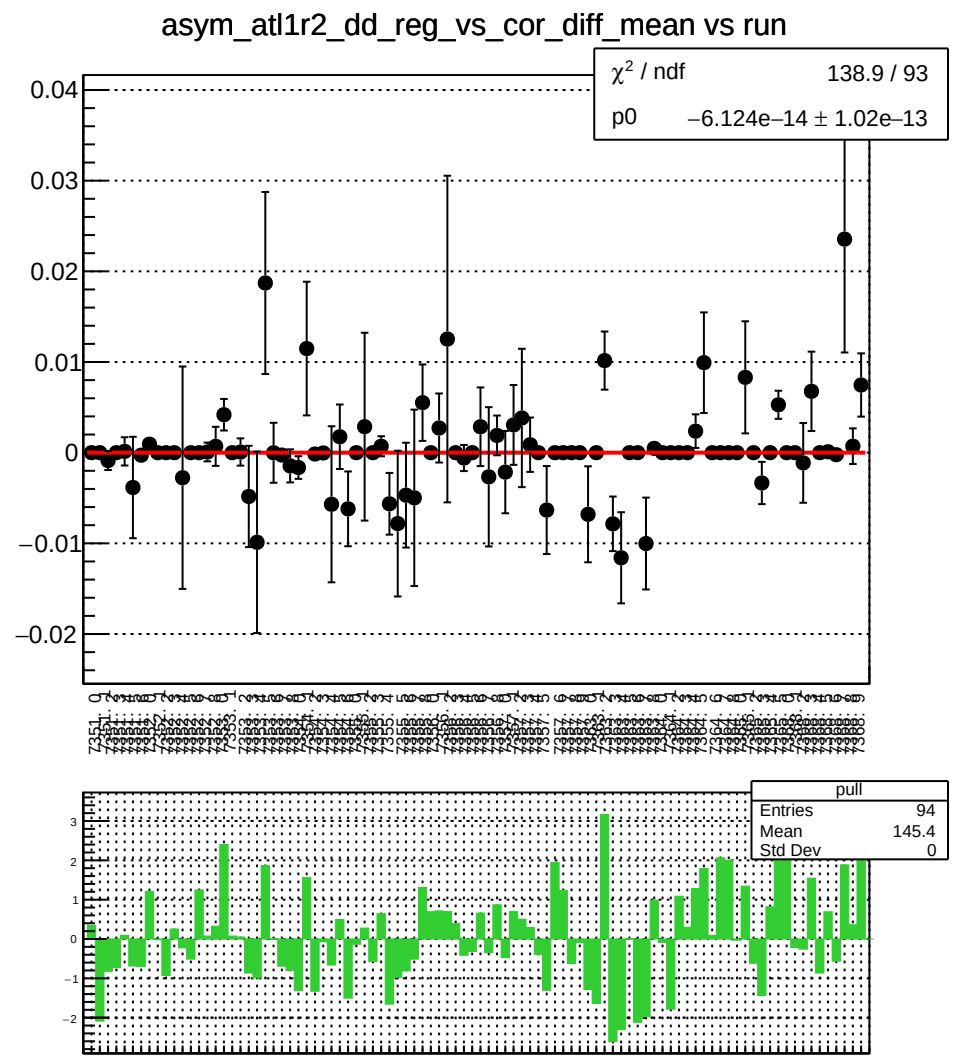

asym_atl1r2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 73.46 / 93
p0 −5430 ± 5711
150
100
50
0
−50
−100
−150
−200
pull
Entries 94
Mean −83.79
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 94
Mean −0.01237
Std Dev 0.8839
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

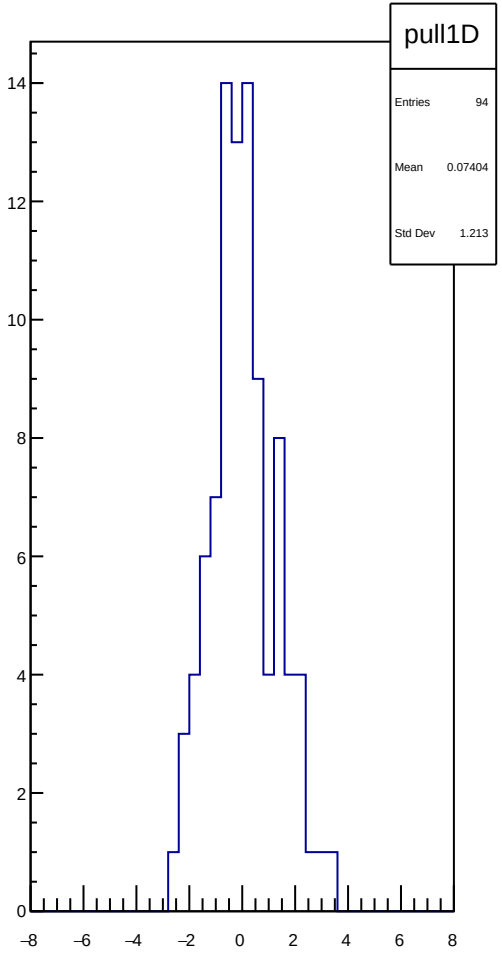

asym_atl1r2_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.622e+04 / 93
p0 5421 ± 4.038
7500
7000
6500
6000
5500
5000
4500

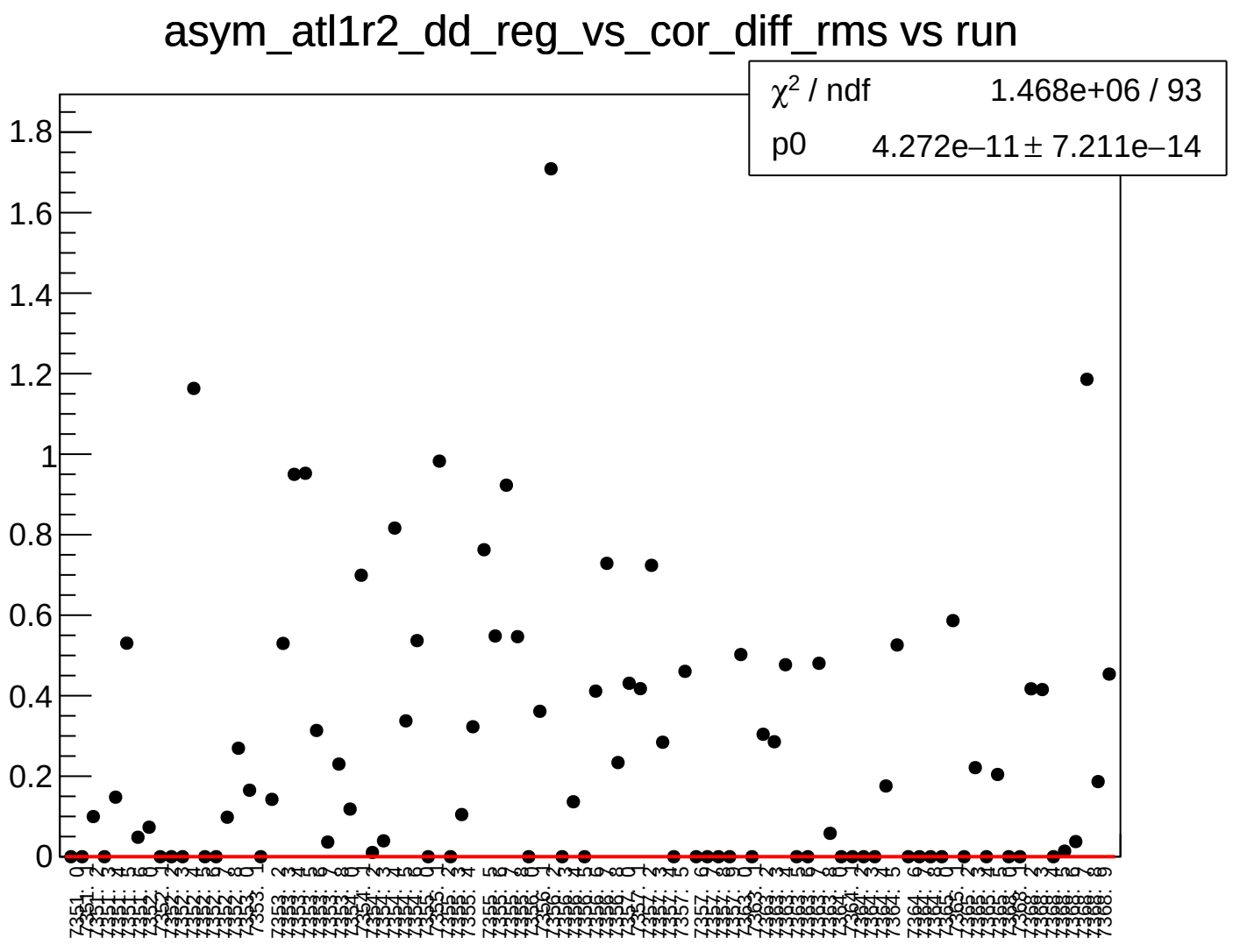

asym_atl1r2_dd_mean vs run
×10^3
χ^2 / ndf 71.59 / 93
p0 3734 ± 5923
pull
Entries 94
Mean −121.8
Std Dev 0

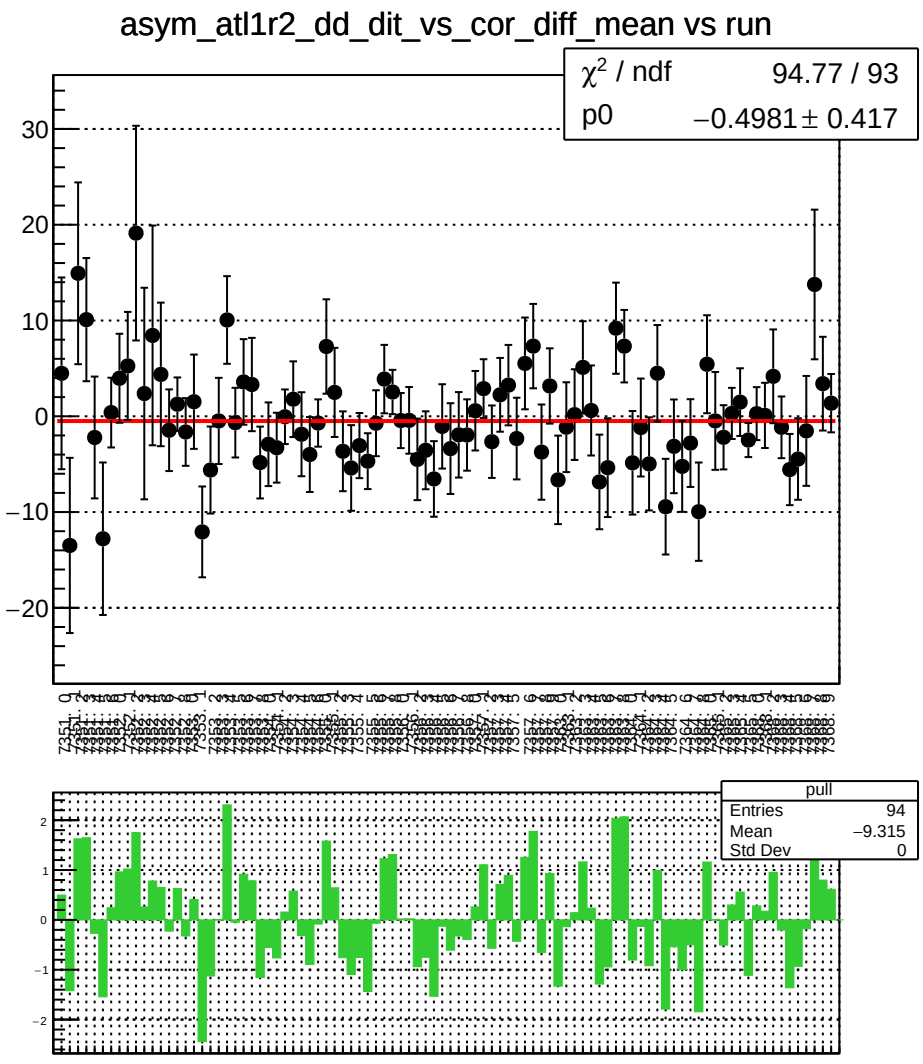

pull1D
Entries 94
Mean 0.01369
Std Dev 0.8726

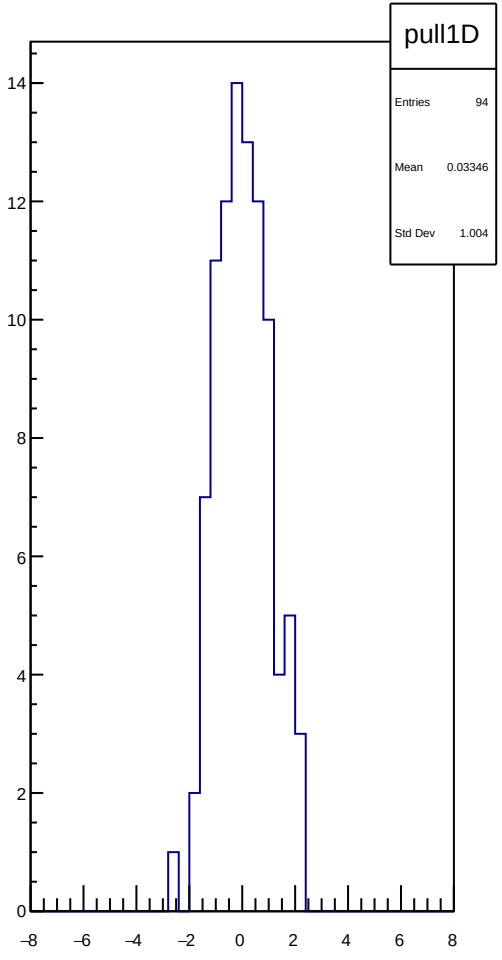

asym_atl1r2_dd_rms vs run
χ^2 / ndf 1.355e+04 / 93
p0 5627 ± 4.188
7500
7000
6500
6000
5500
5000

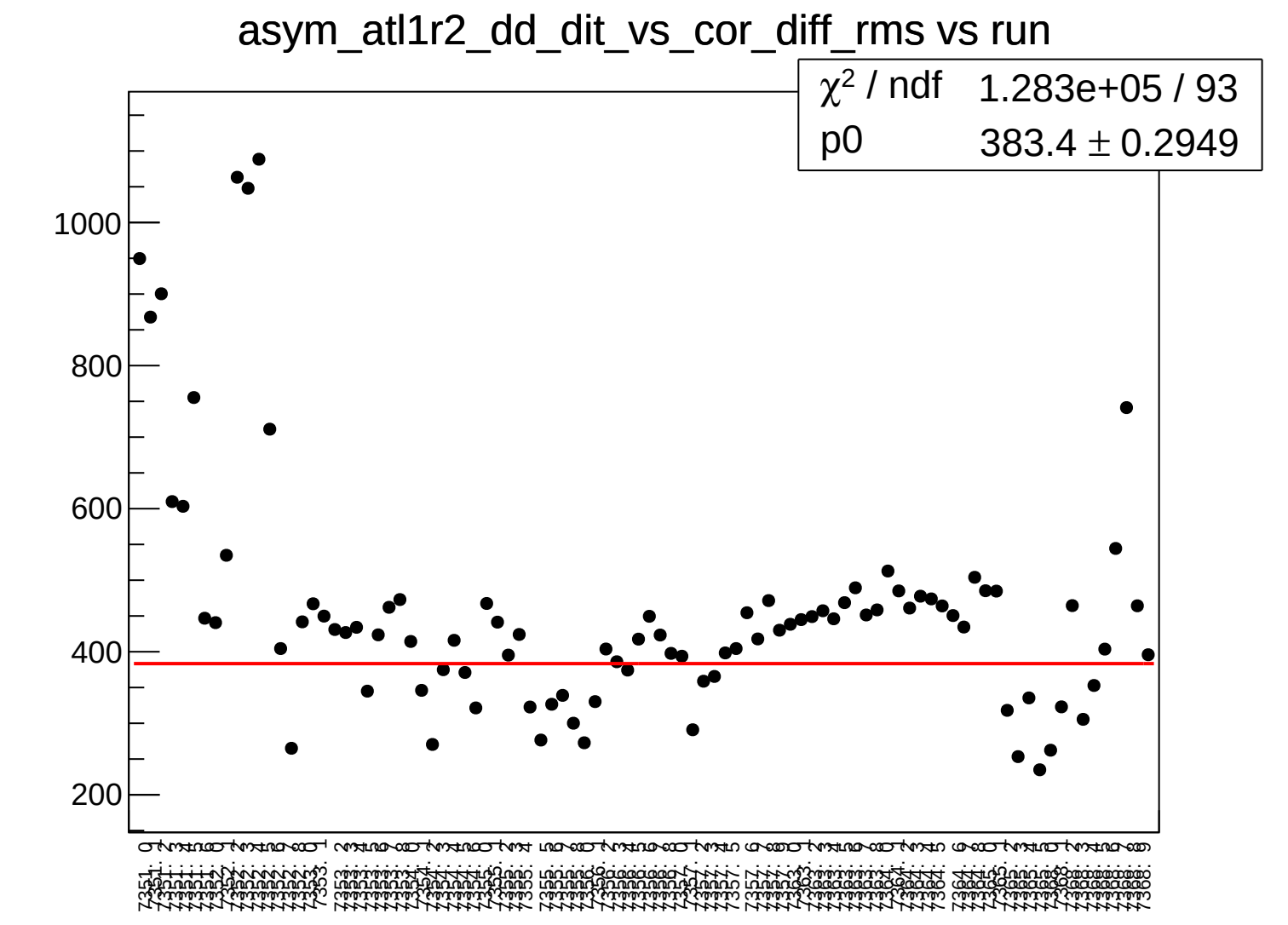

asym_atl1r2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 138.9 / 93
p0 −6.124e−14 ± 1.02e−13
0.04
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 94
Mean 145.4
Std Dev 0
3
2
1
0
−1
−2

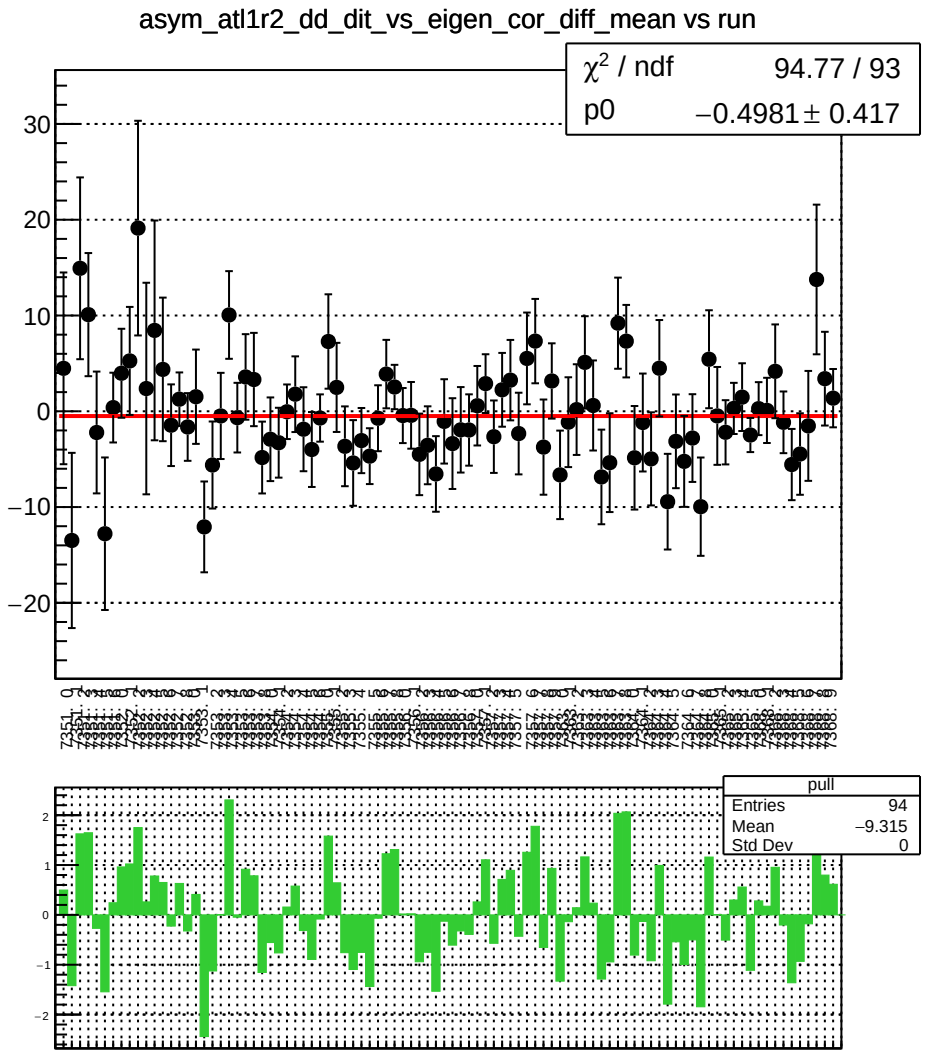

pull1D
Entries 94
Mean 0.07404
Std Dev 1.213
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

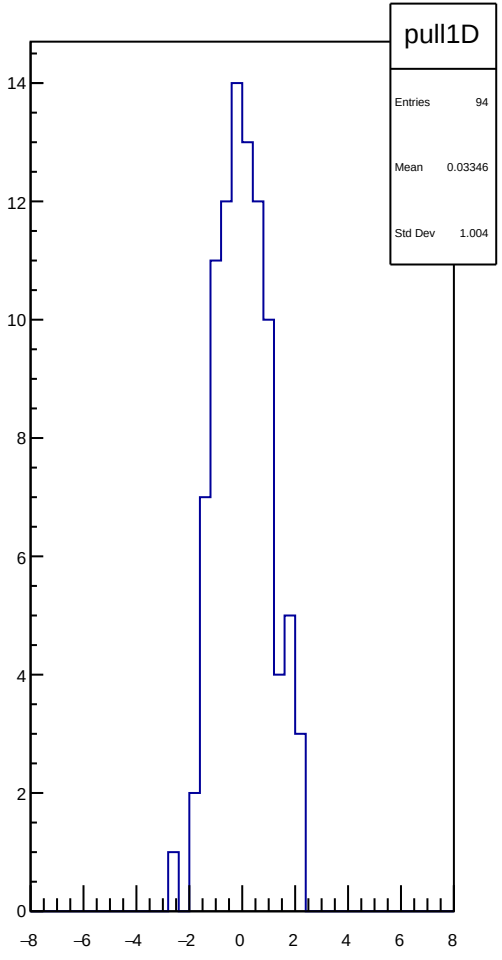

asym_atl1r2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.468e+06 / 93
p0 4.272e−11 ± 7.211e−14
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

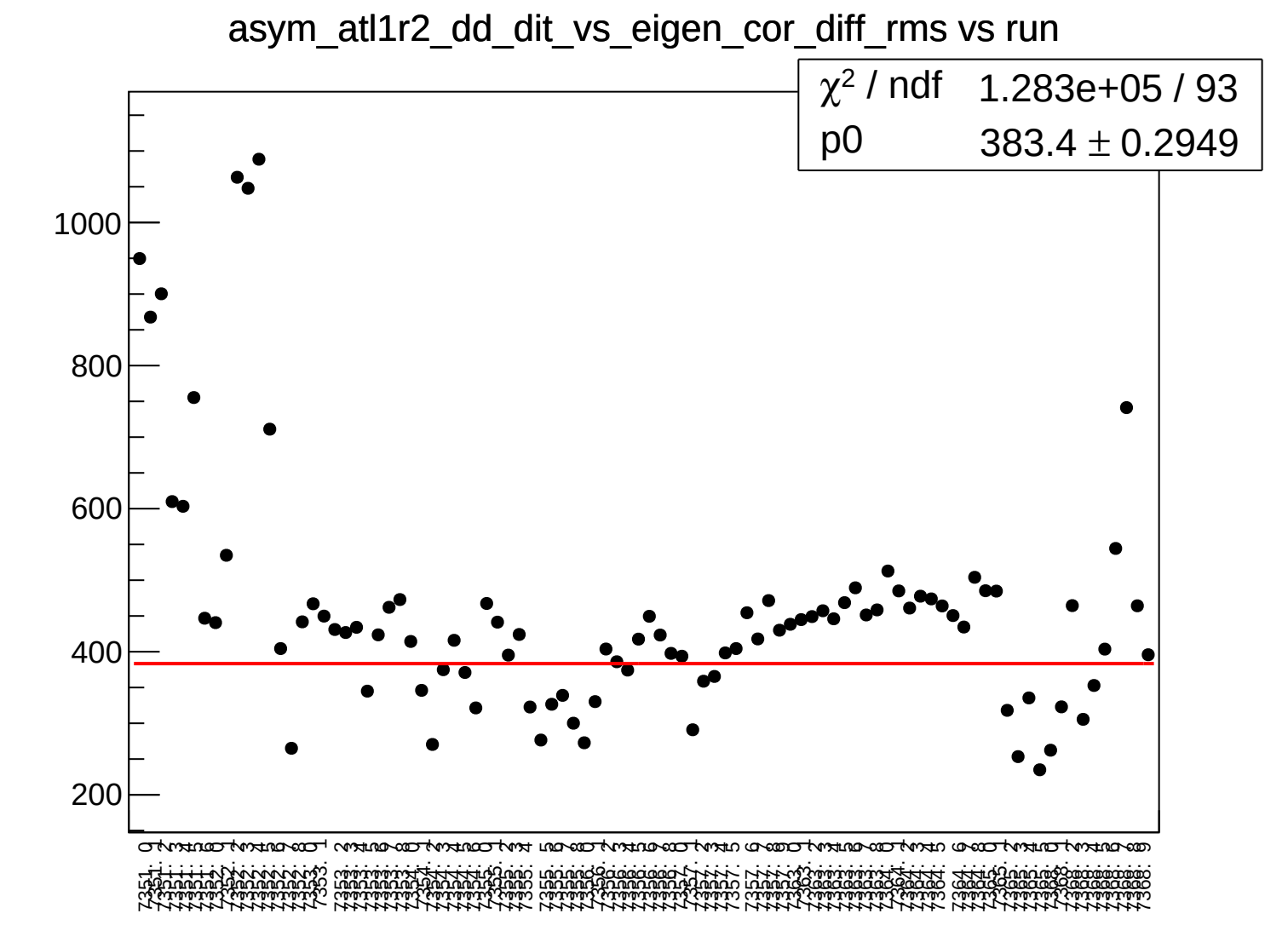

asym_atl1r2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 94.77 / 93
p0 −0.4981 ± 0.417
pull
Entries 94
Mean −9.315
Std Dev 0

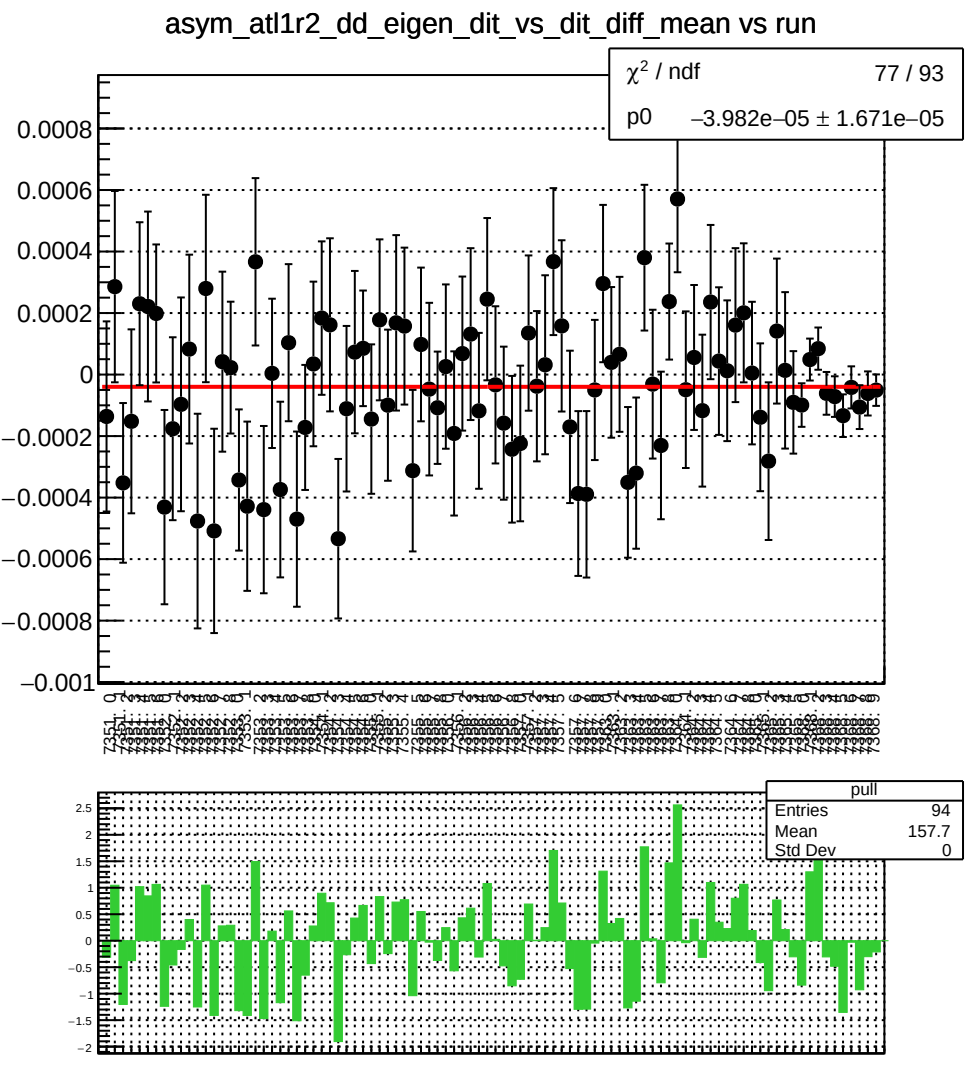

pull1D
Entries 94
Mean 0.03346
Std Dev 1.004

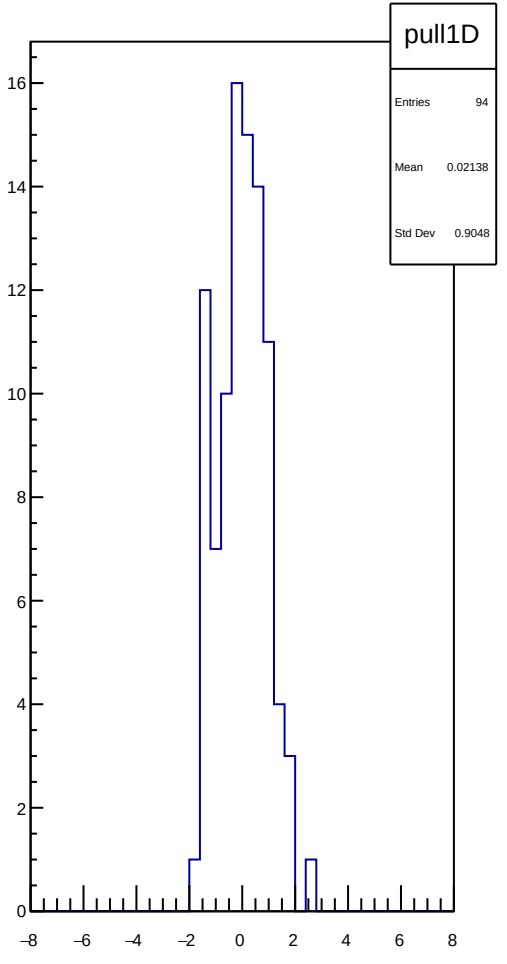

asym_atl1r2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.283e+05 / 93
p0 383.4 ± 0.2949
1000
800
600
400
200

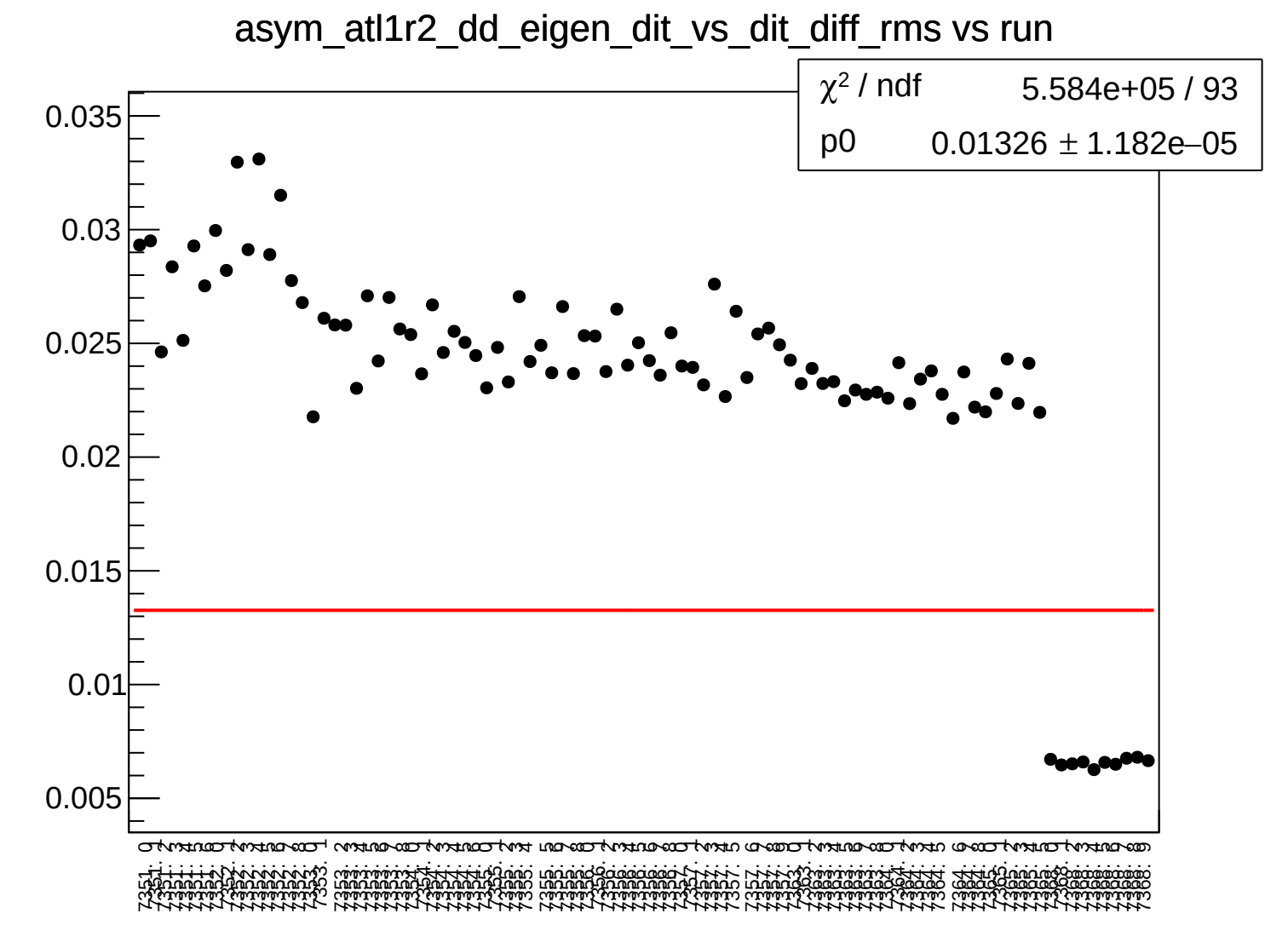

asym_atl1r2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.77 / 93
p0 −0.4981 ± 0.417
pull
Entries 94
Mean −9.315
Std Dev 0

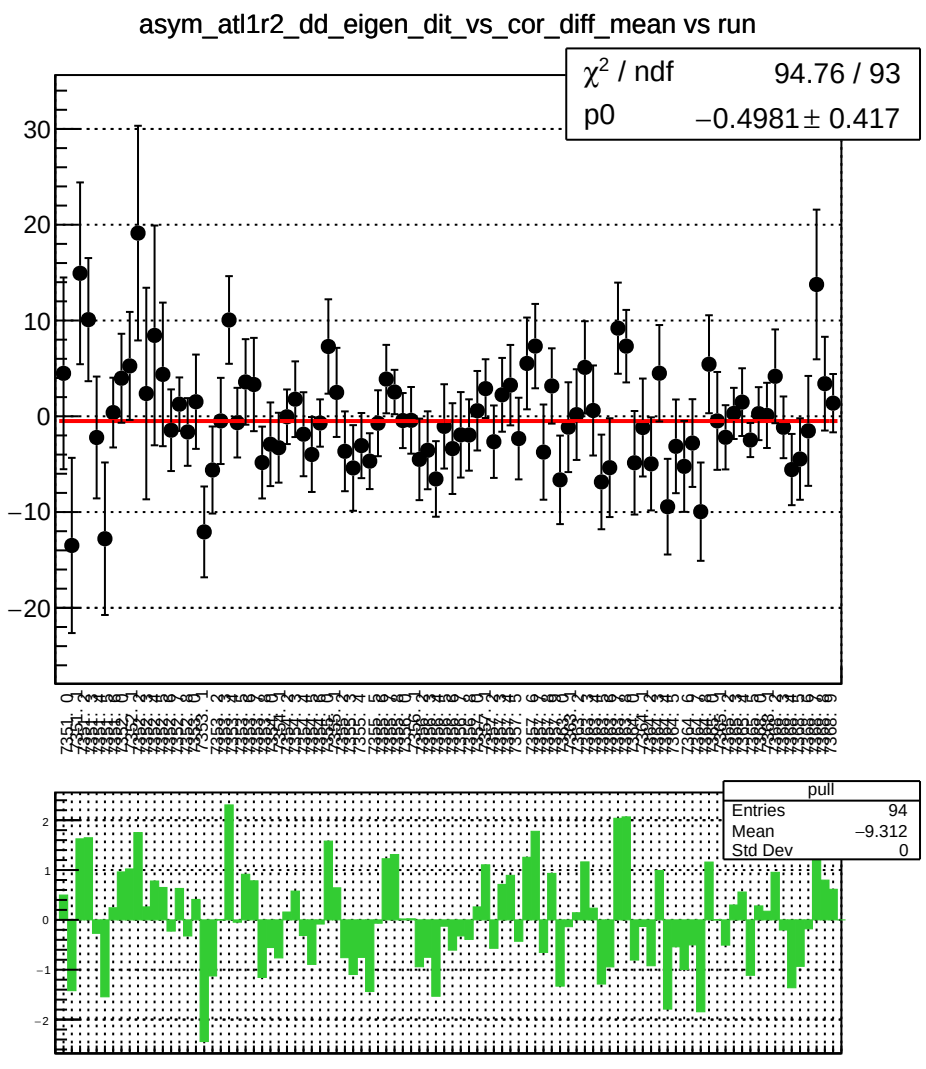

pull1D
Entries 94
Mean 0.03346
Std Dev 1.004

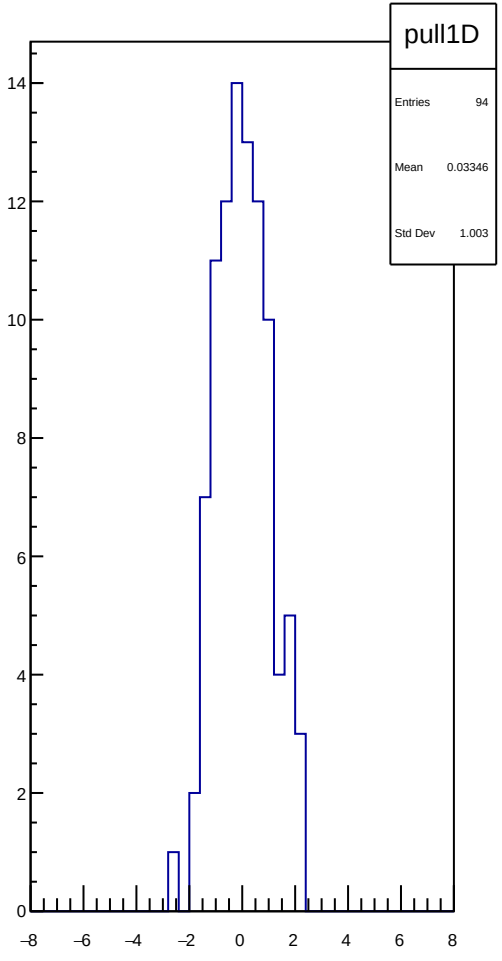

asym_atl1r2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.283e+05 / 93
p0 383.4 ± 0.2949
1000
800
600
400
200

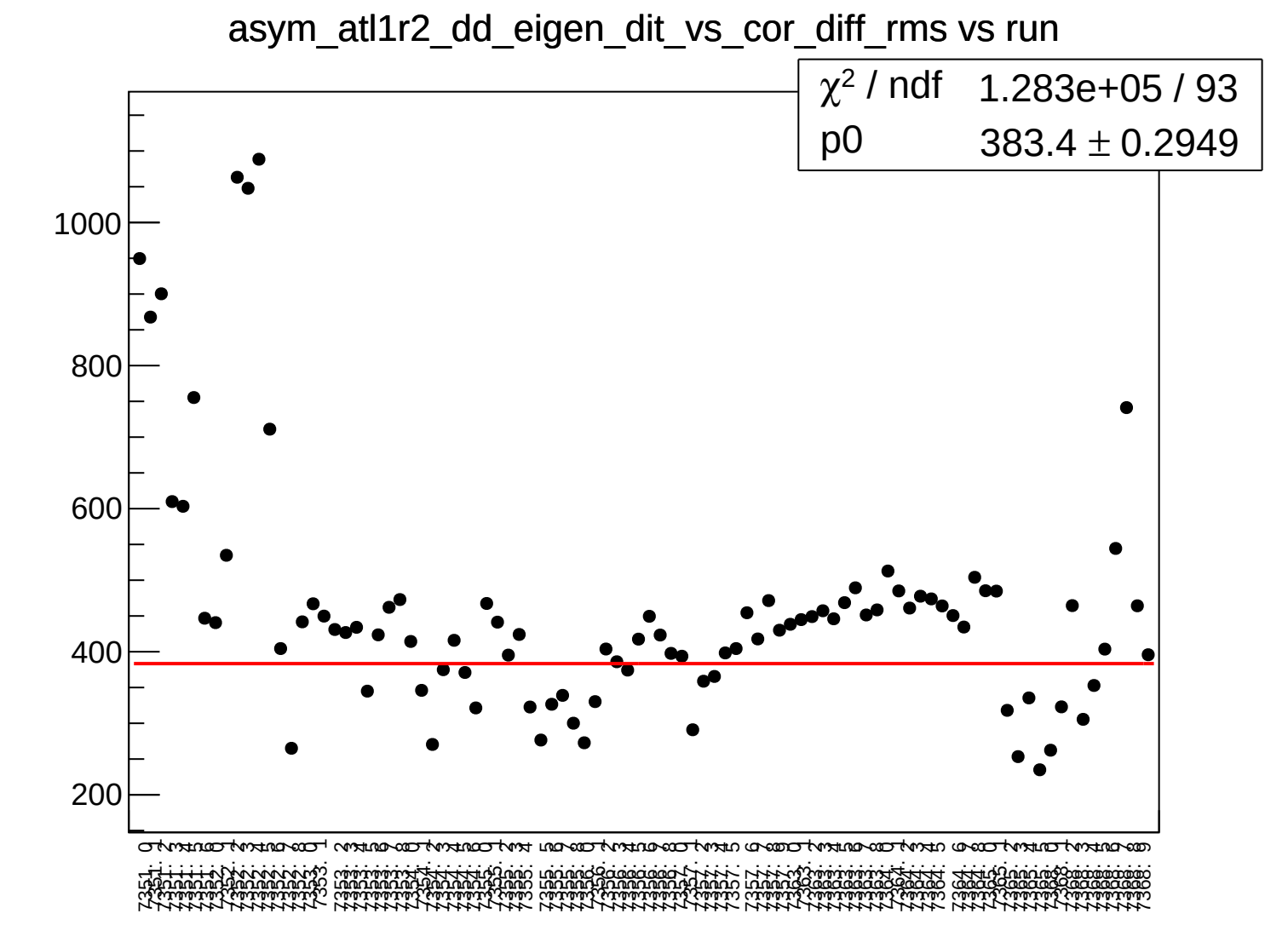

asym_atl1r2_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 77 / 93
p0 −3.982e−05 ± 1.671e−05
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 94
Mean 157.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

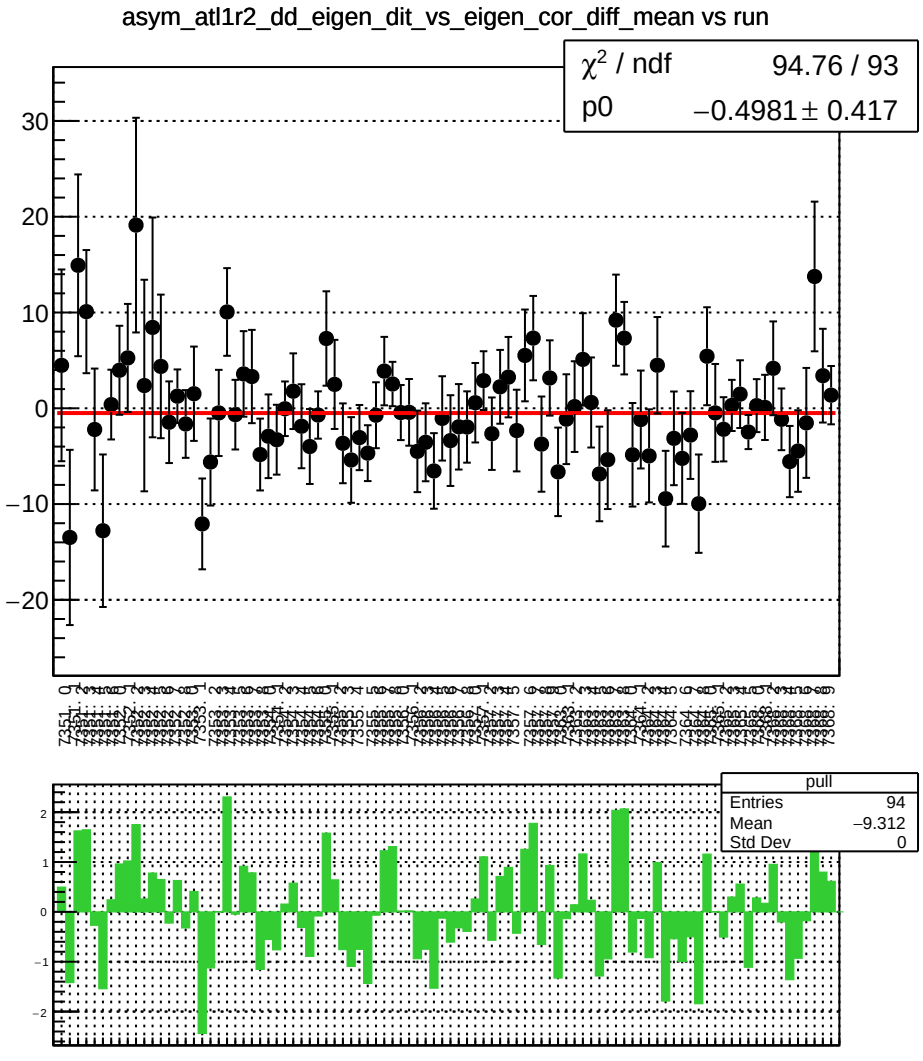

pull1D
Entries 94
Mean 0.02138
Std Dev 0.9048
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

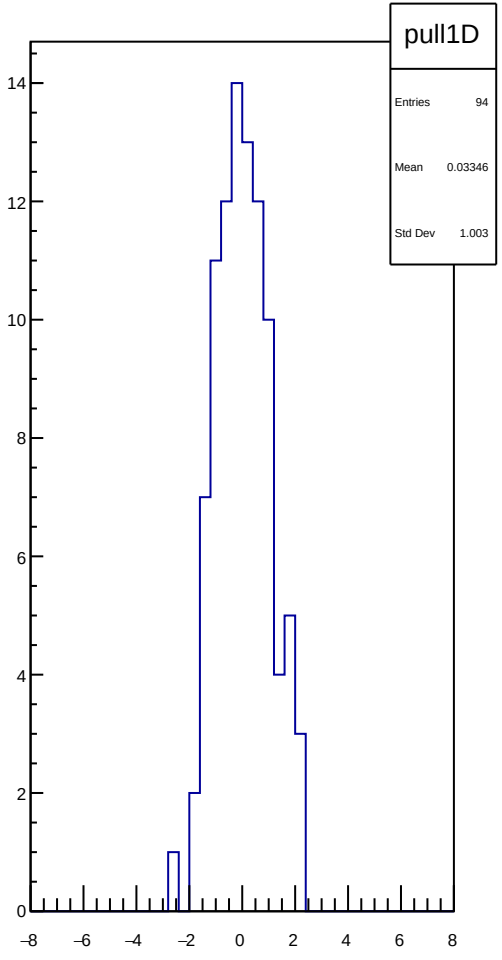

asym_atl1r2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.584e+05 / 93
p0 0.01326 ± 1.182e–05
0.035
0.03
0.025
0.02
0.015
0.01
0.005

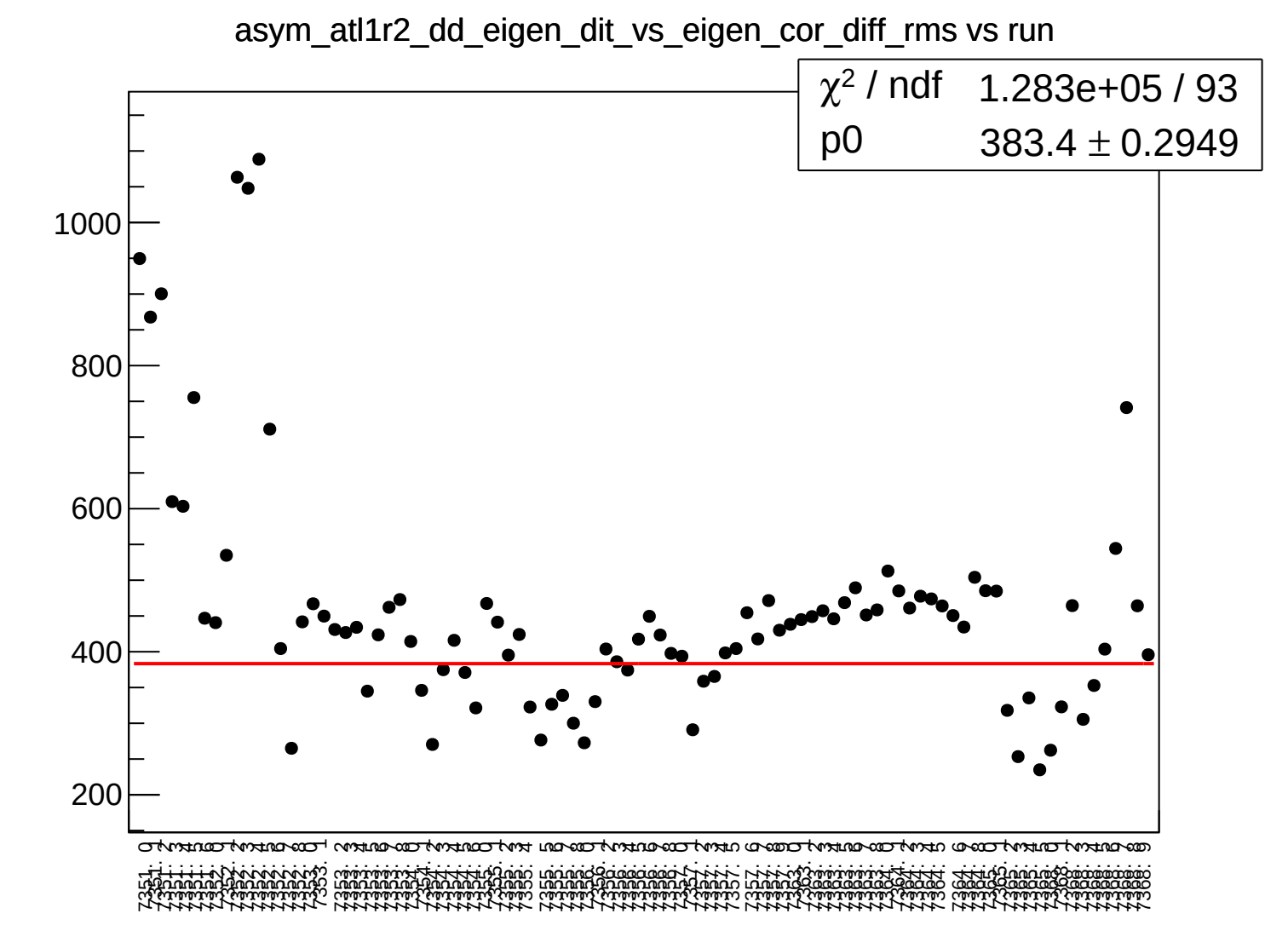

asym_atl1r2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.76 / 93
p0 −0.4981 ± 0.417
pull
Entries 94
Mean −9.312
Std Dev 0

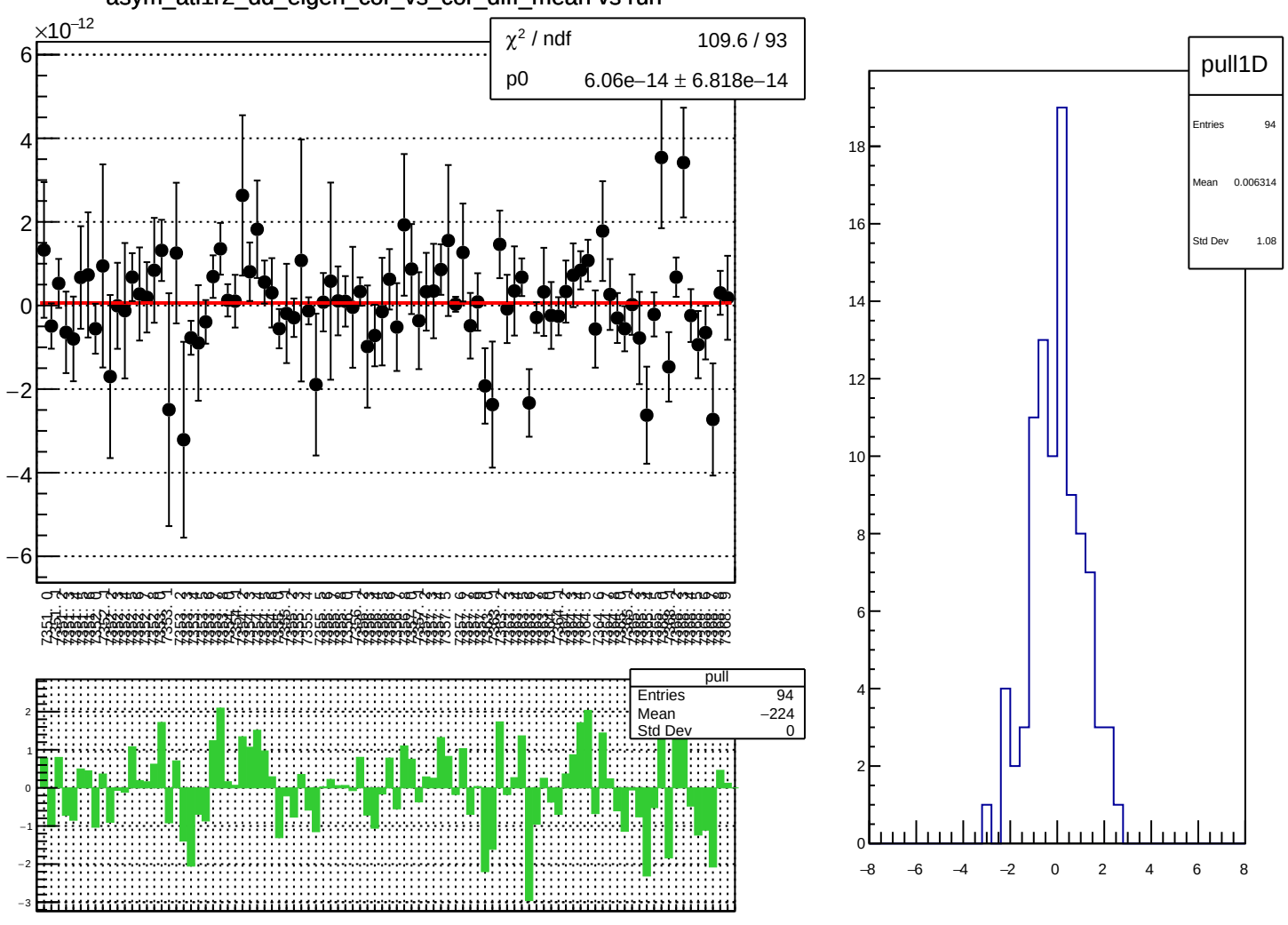

pull1D
Entries 94
Mean 0.03346
Std Dev 1.003

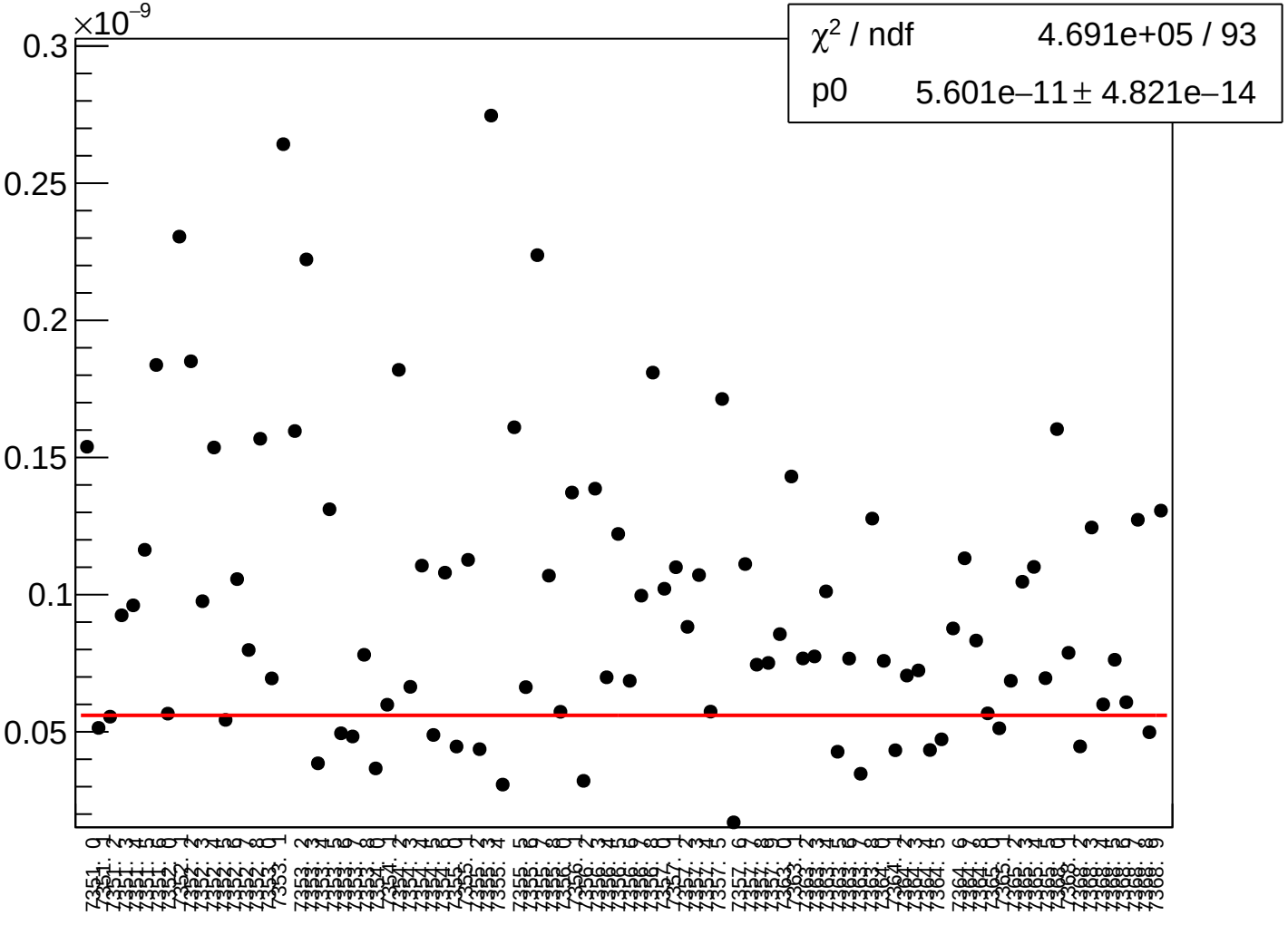

asym_atl1r2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.283e+05 / 93
p0 383.4 ± 0.2949
1000
800
600
400
200

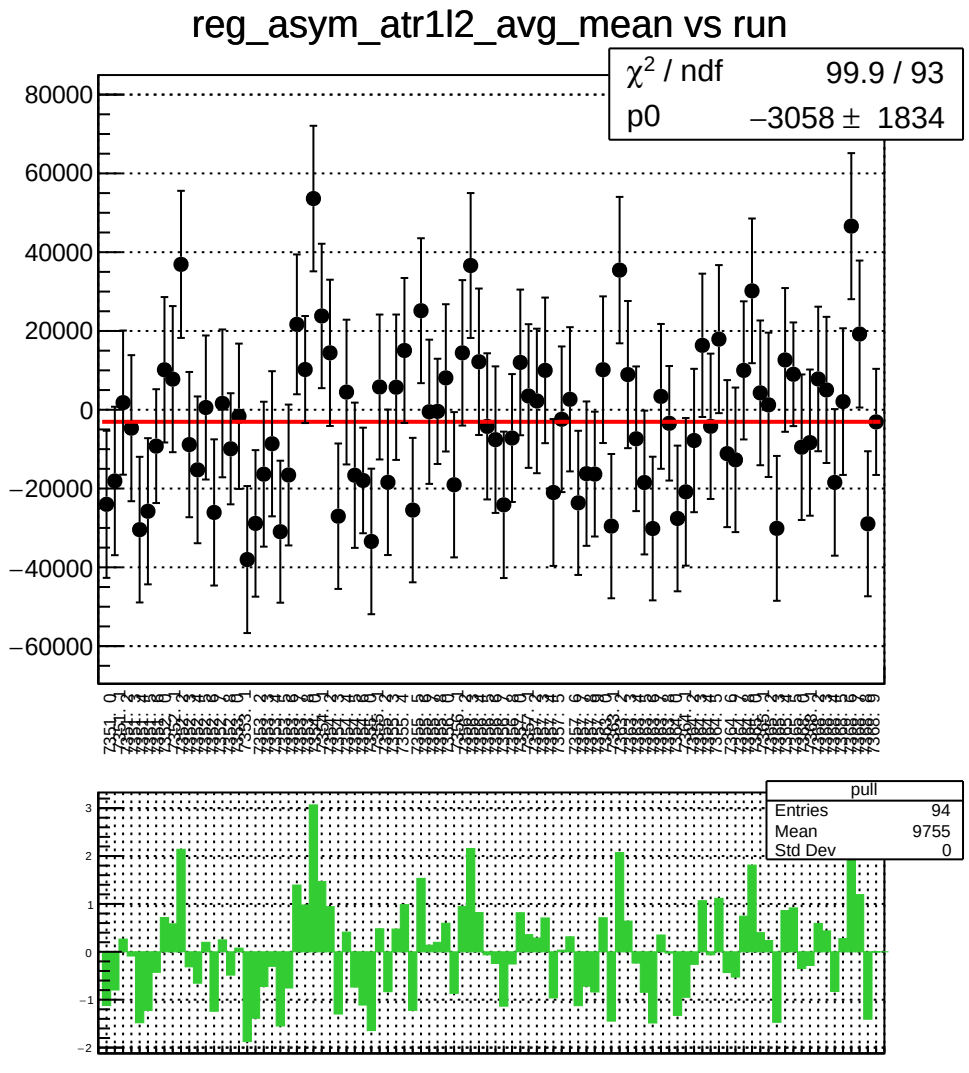

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.76 / 93
p0 −0.4981 ± 0.417
pull
Entries 94
Mean −9.312
Std Dev 0

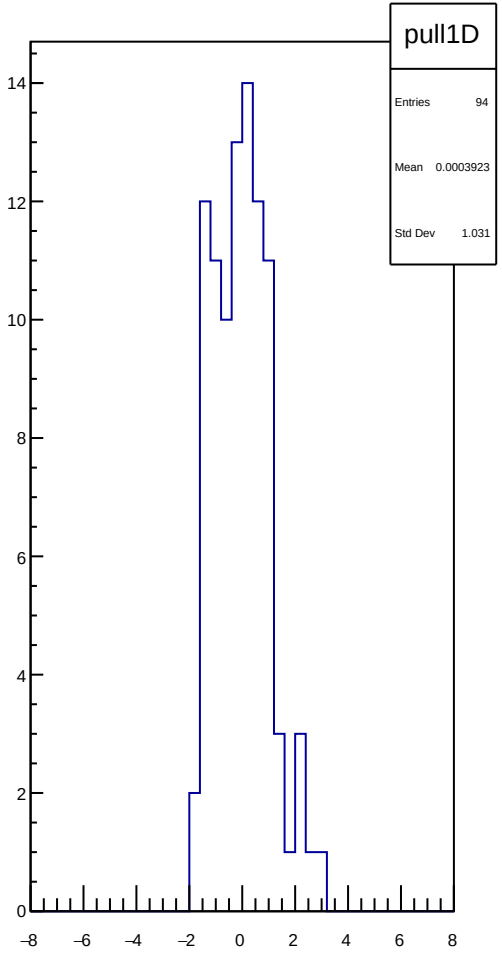

pull1D
Entries 94
Mean 0.03346
Std Dev 1.003

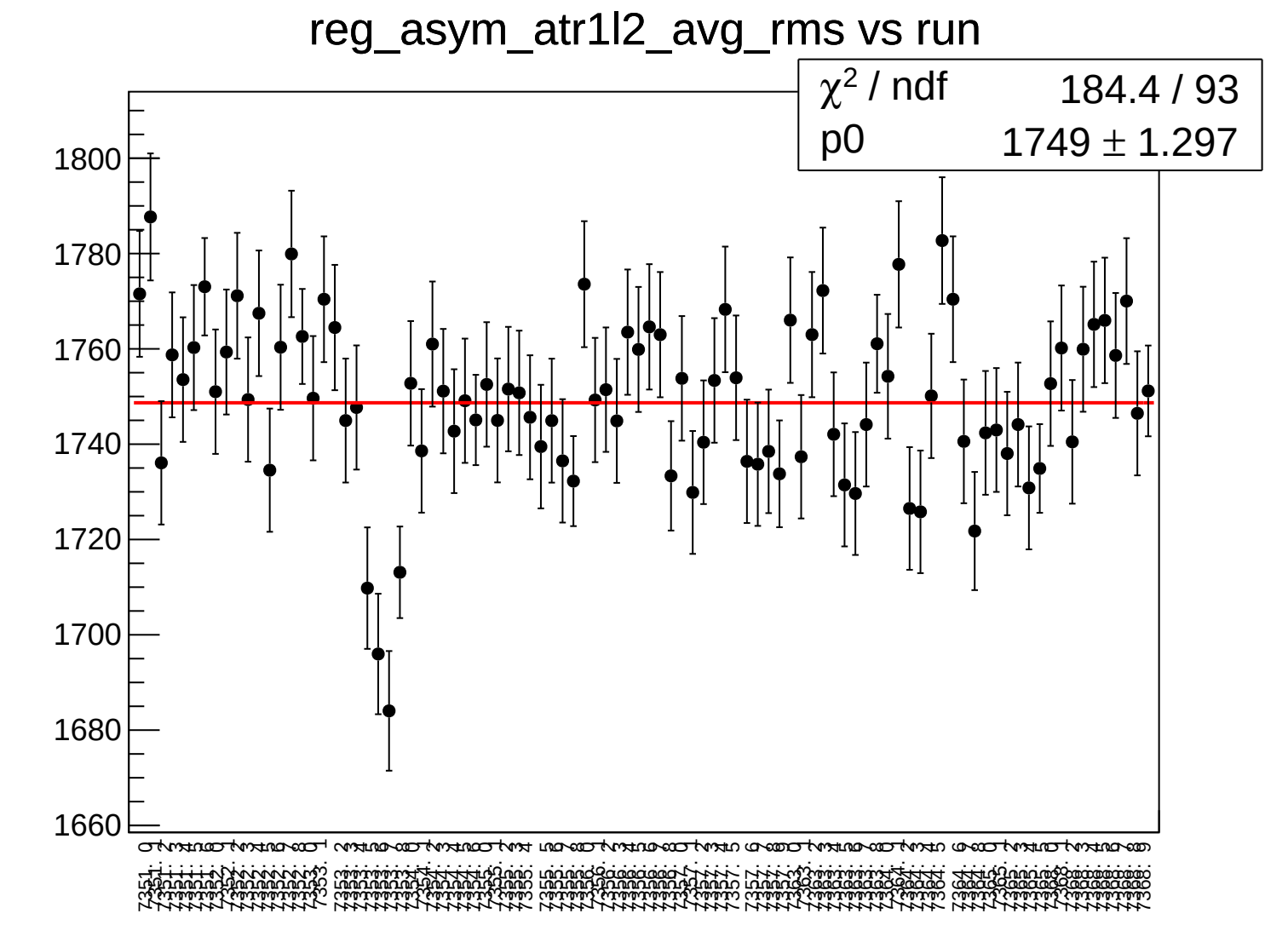

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.283e+05 / 93
p0 383.4 ± 0.2949
1000
800
600
400
200

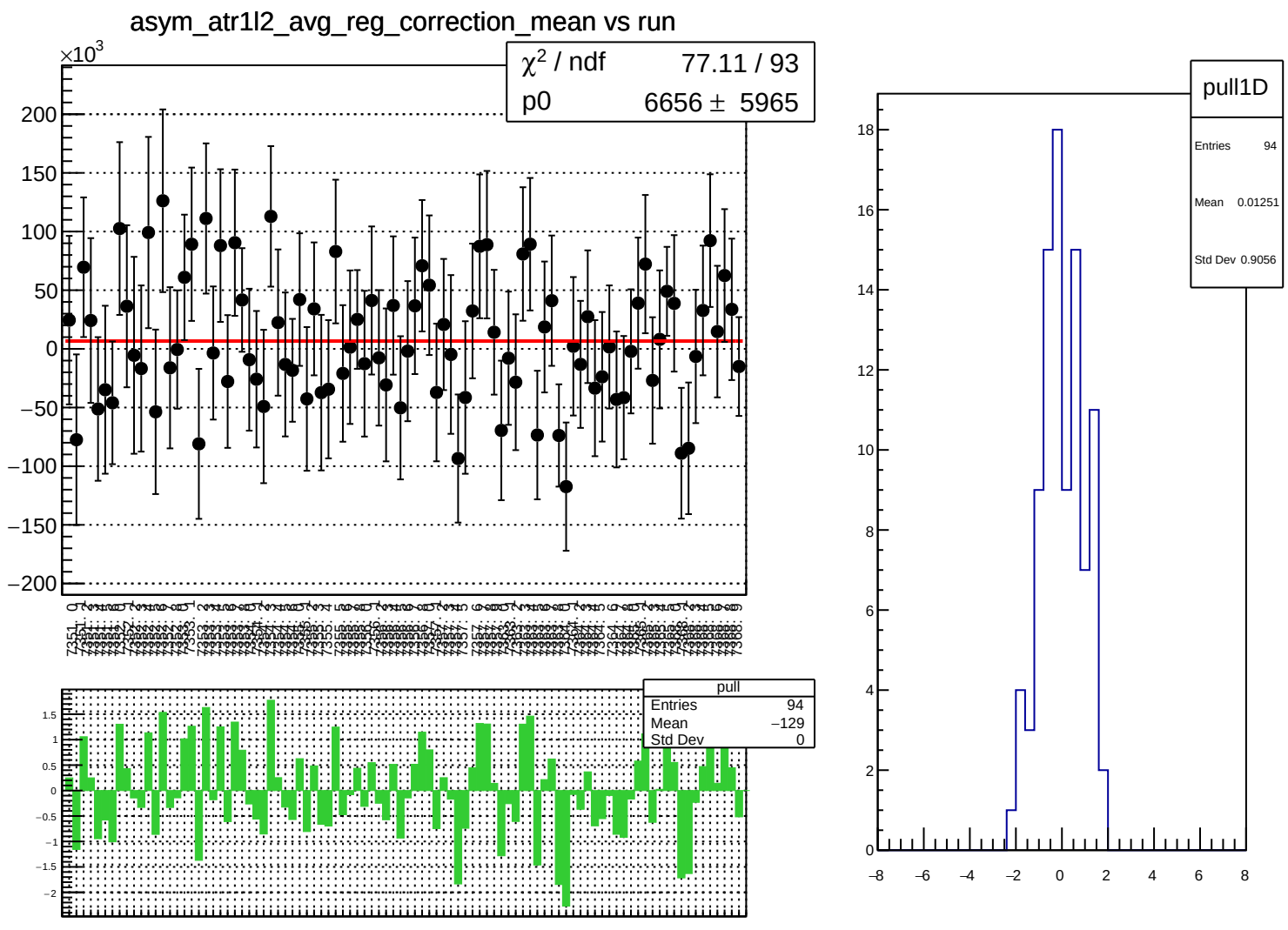

asym_atl1r2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 109.6 / 93
p0 6.06e−14 ± 6.818e−14
pull
Entries 94
Mean −224
Std Dev 0
pull1D
Entries 94
Mean 0.006314
Std Dev 1.08

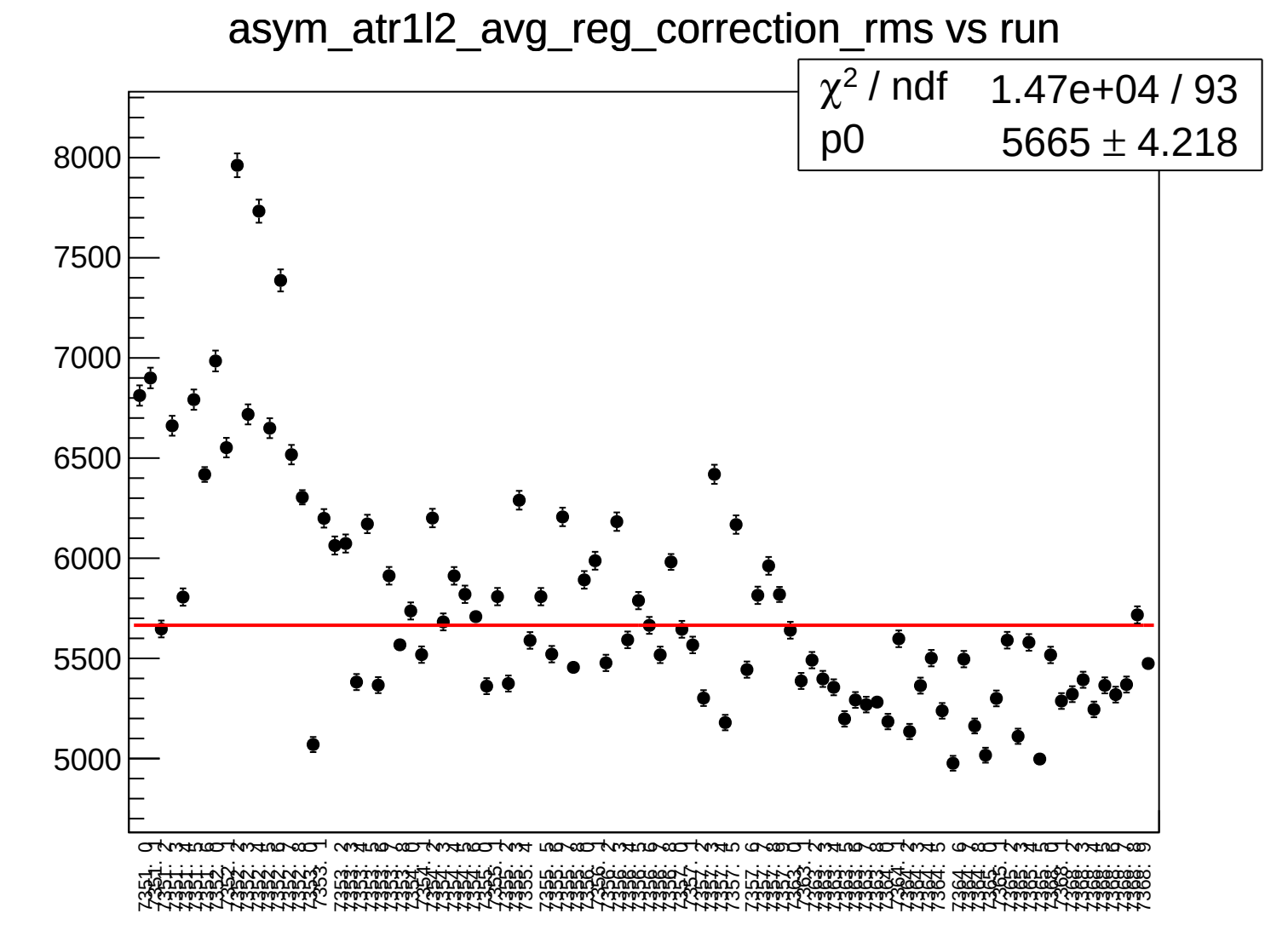

asym_atl1r2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.691e+05 / 93
p0 5.601e−11 ± 4.821e−14
0.3
0.25
0.2
0.15
0.1
0.05

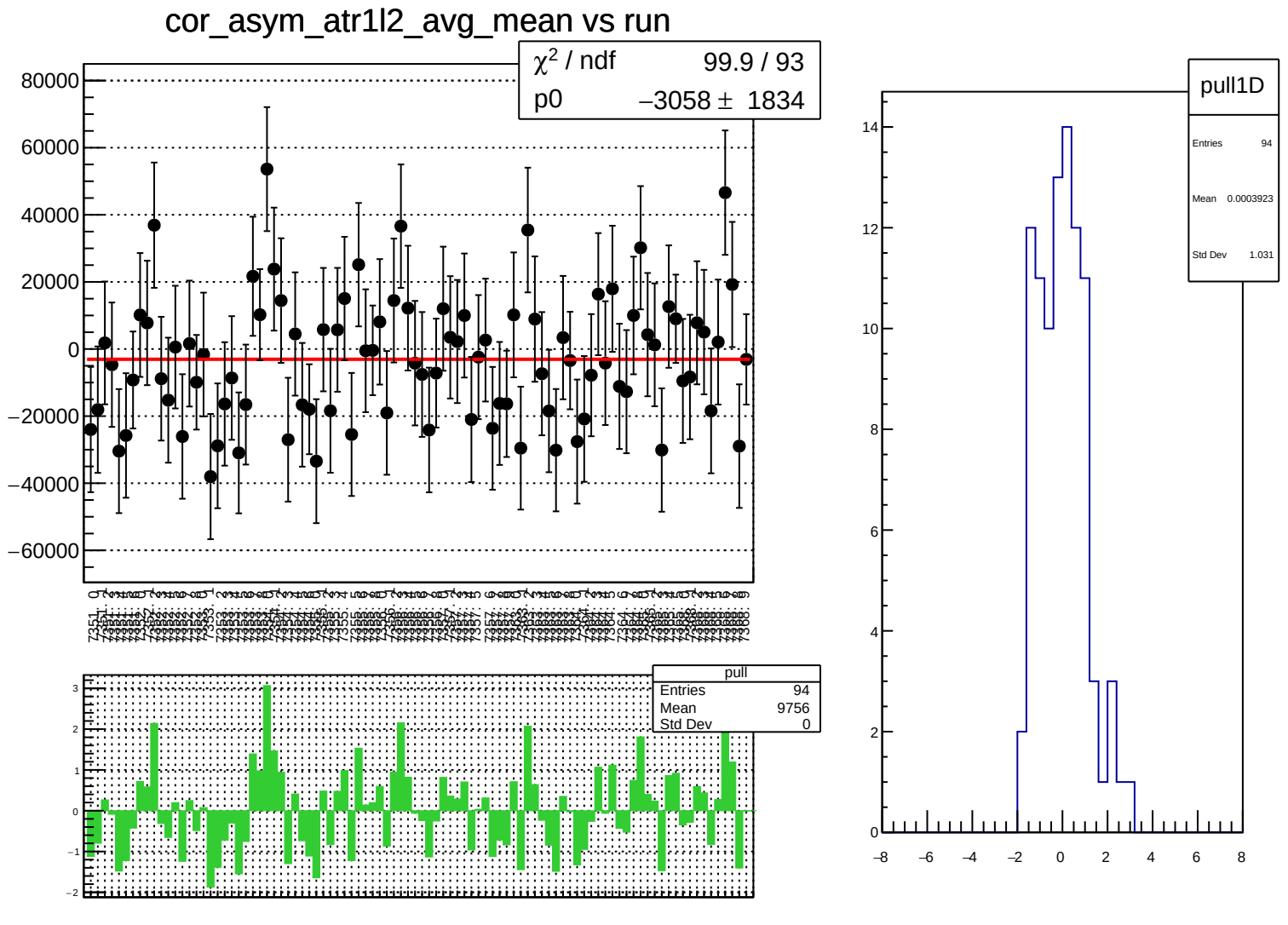

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 99.9 / 93
p0 −3058 ± 1834
pull
Entries 94
Mean 9755
Std Dev 0

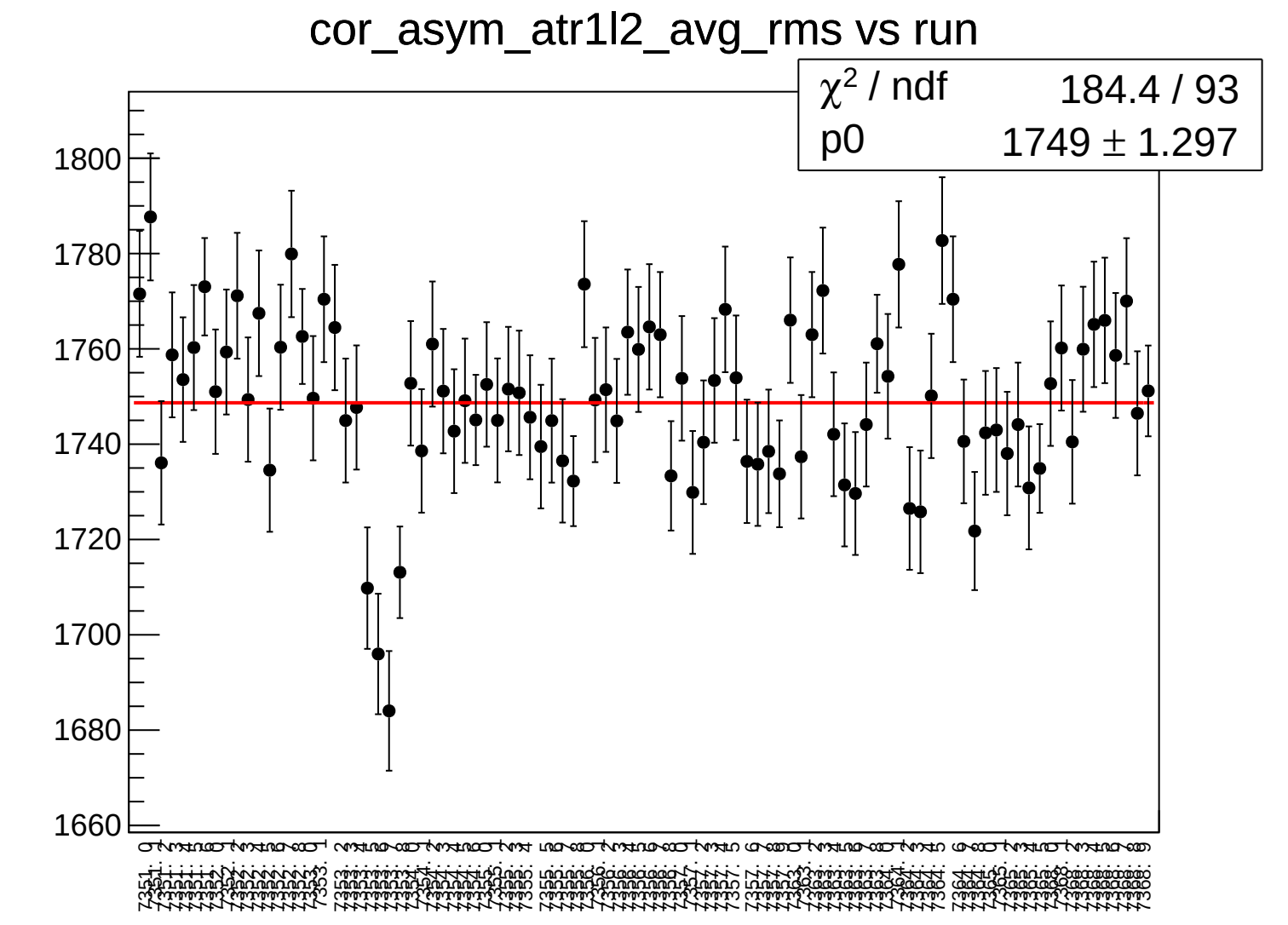

pull1D
Entries 94
Mean 0.0003923
Std Dev 1.031

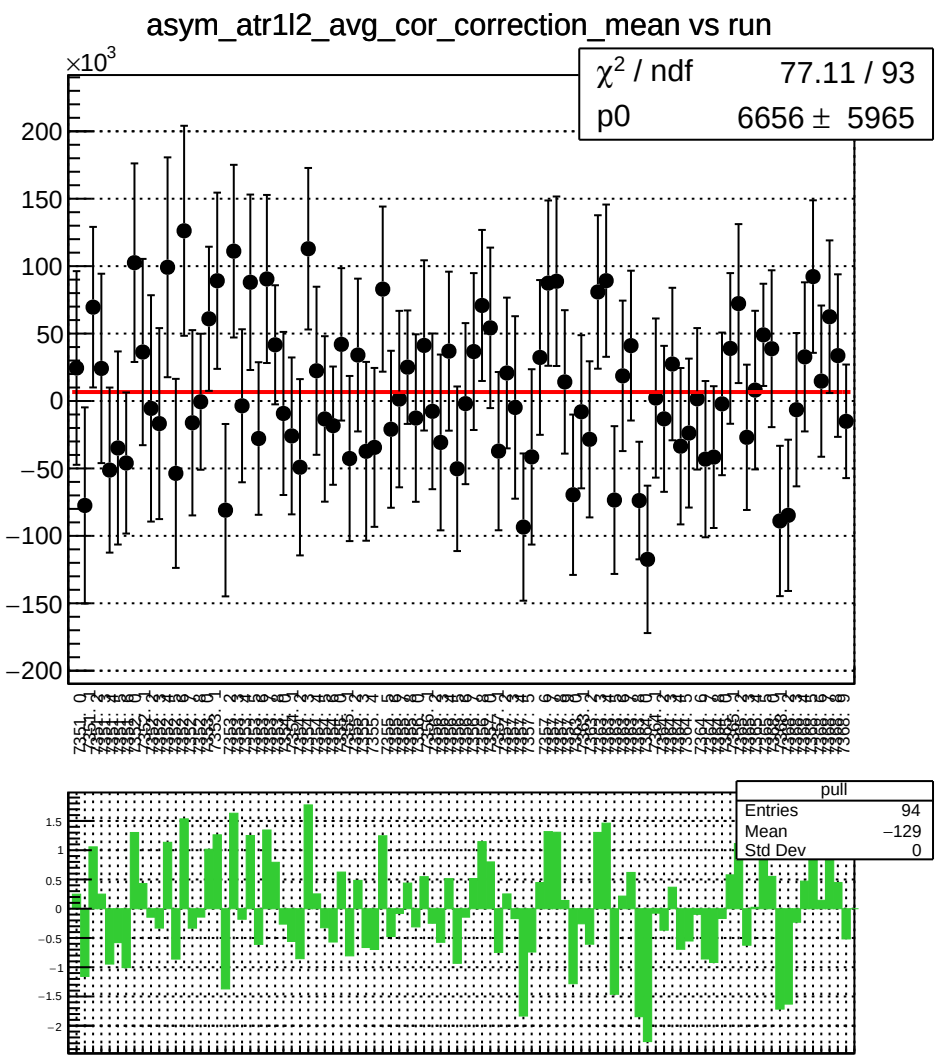

reg_asym_atr1l2_avg_rms vs run
χ² / ndf 184.4 / 93
p0 1749 ± 1.297
1800
1780
1760
1740
1720
1700
1680
1660

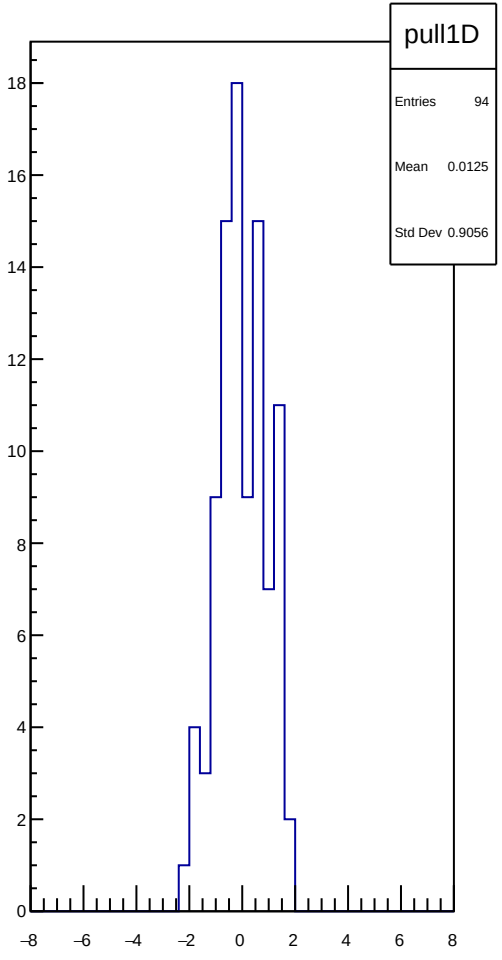

asym_atr1l2_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 77.11 / 93
p0 6656 ± 5965
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 94
Mean −129
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean 0.01251
Std Dev 0.9056
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

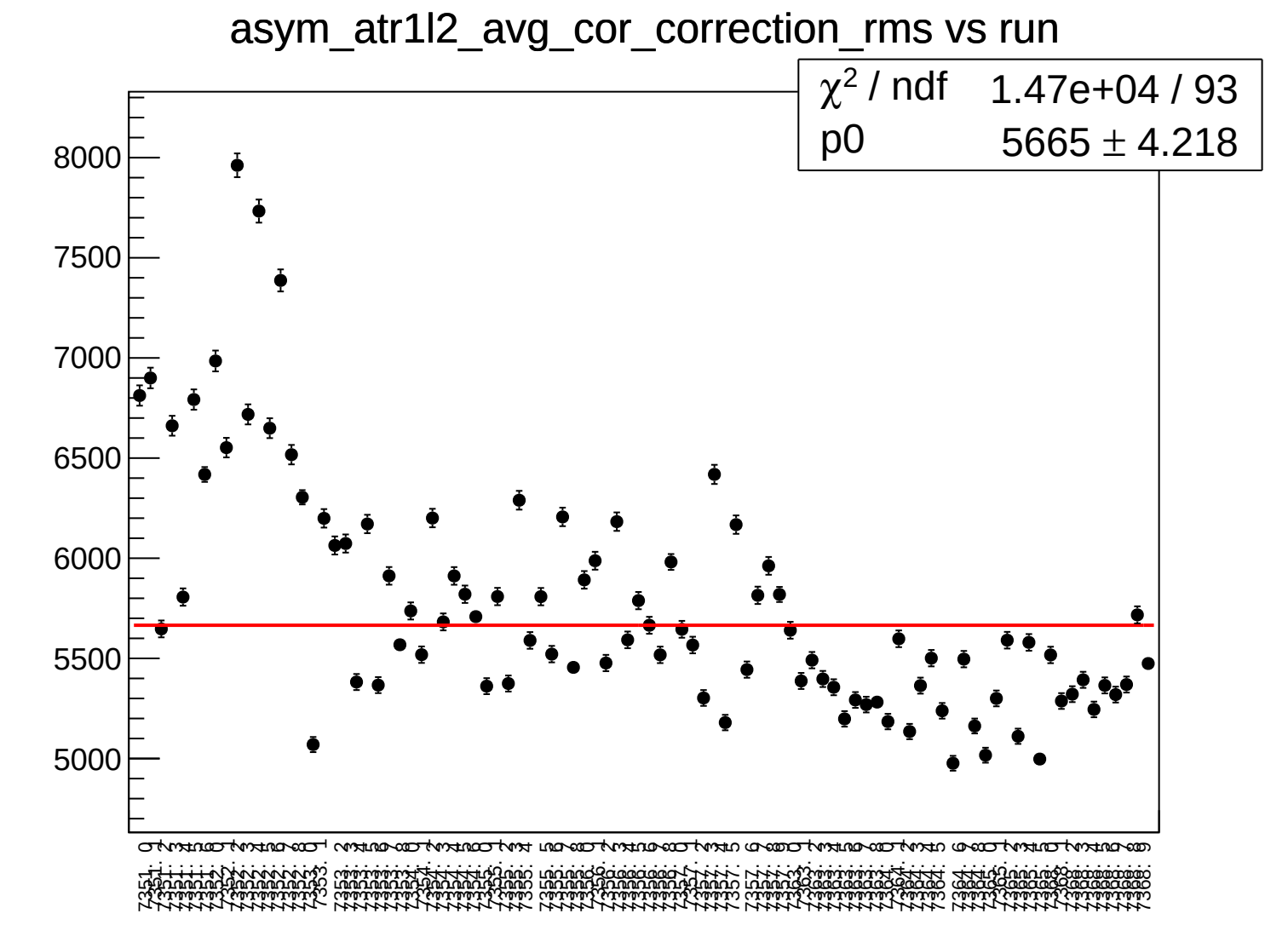

asym_atr1l2_avg_reg_correction_rms vs run
χ² / ndf 1.47e+04 / 93
p0 5665 ± 4.218
8000
7500
7000
6500
6000
5500
5000

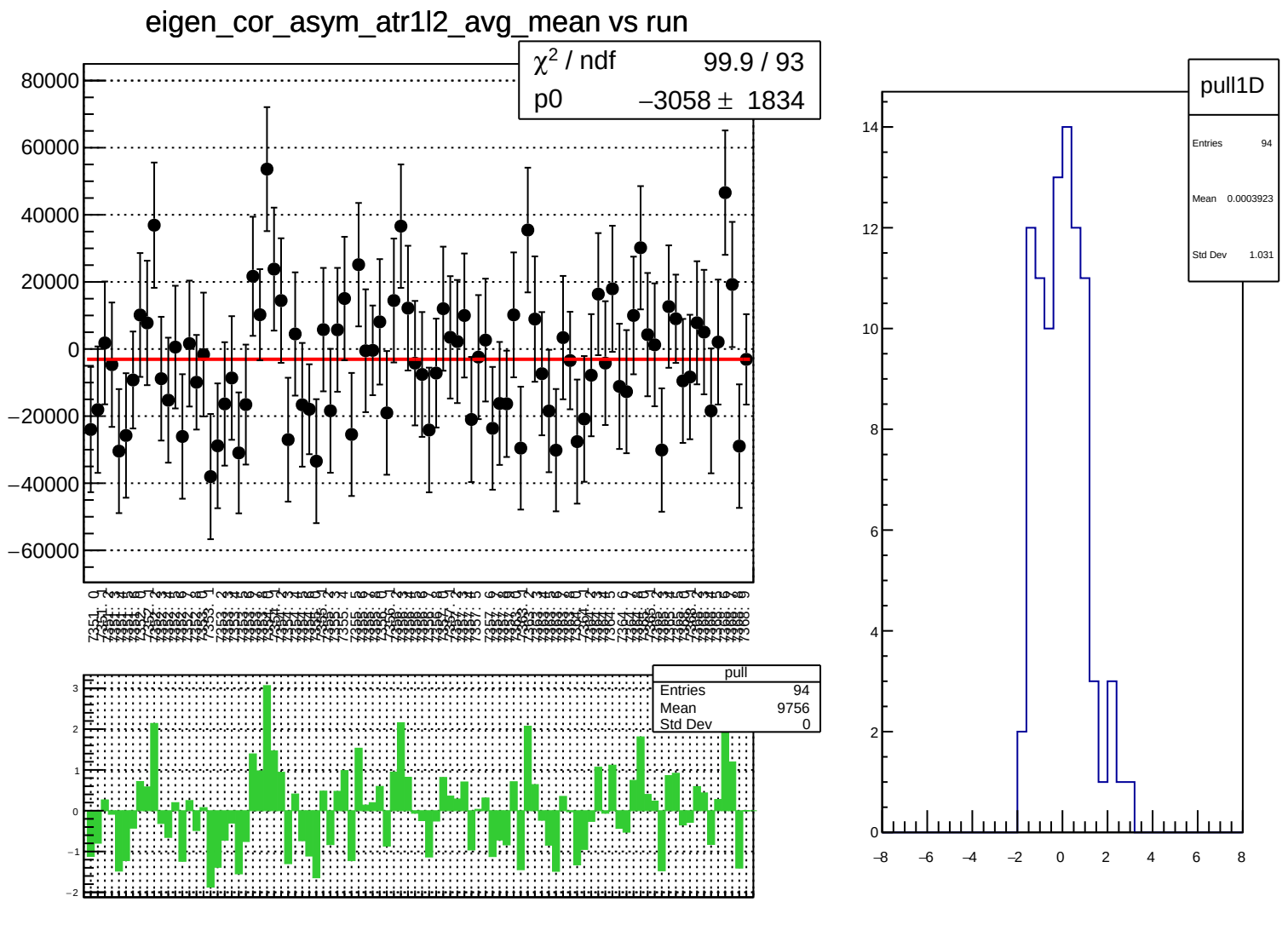

cor_asym_atr1l2_avg_mean vs run
χ² / ndf 99.9 / 93
p0 −3058 ± 1834
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 9756
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.0003923
Std Dev 1.031
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

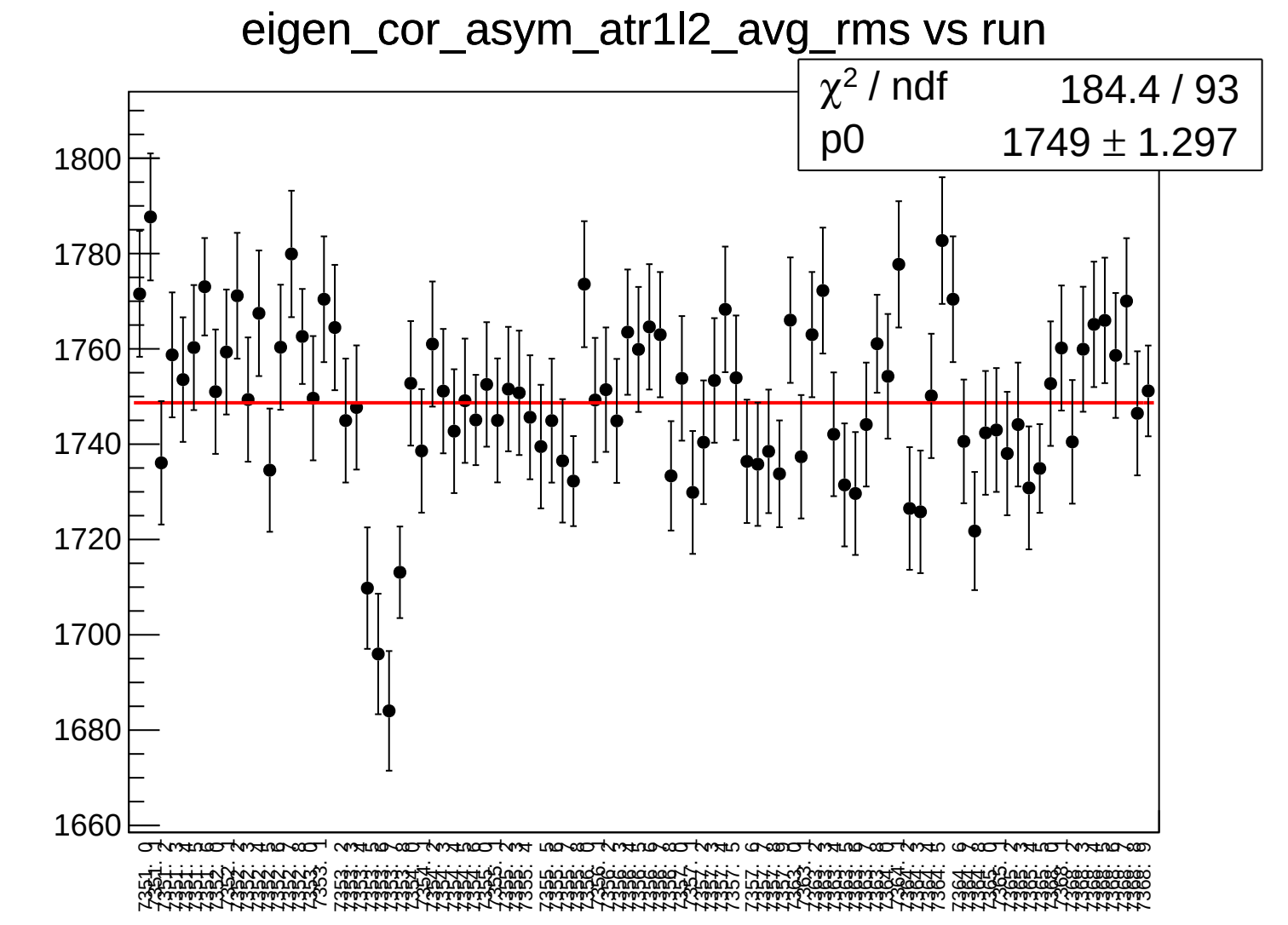

cor_asym_atr1l2_avg_rms vs run
χ² / ndf 184.4 / 93
p0 1749 ± 1.297
1800
1780
1760
1740
1720
1700
1680
1660

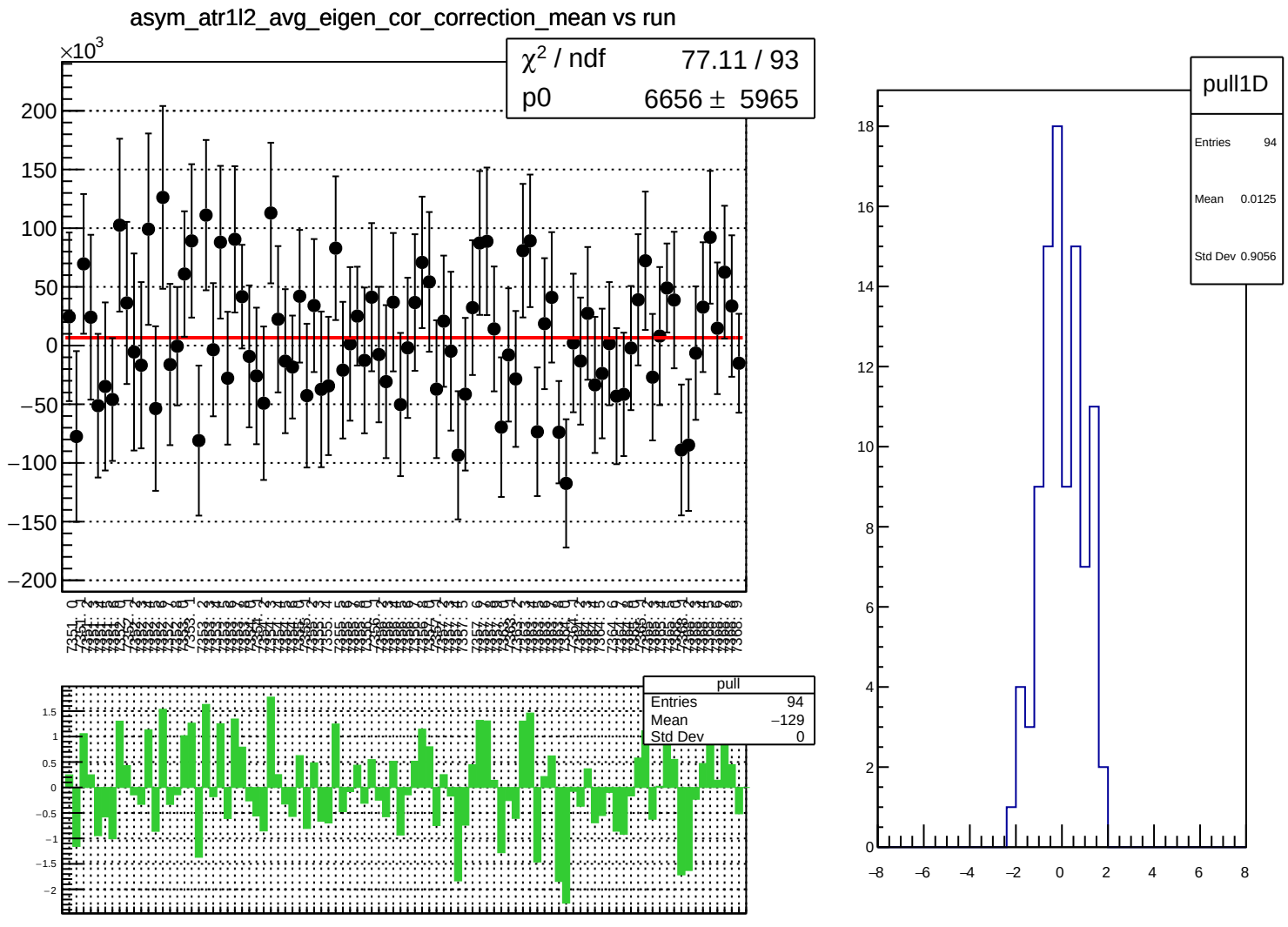

asym_atr1l2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 77.11 / 93
p0 6656 ± 5965
pull
Entries 94
Mean −129
Std Dev 0

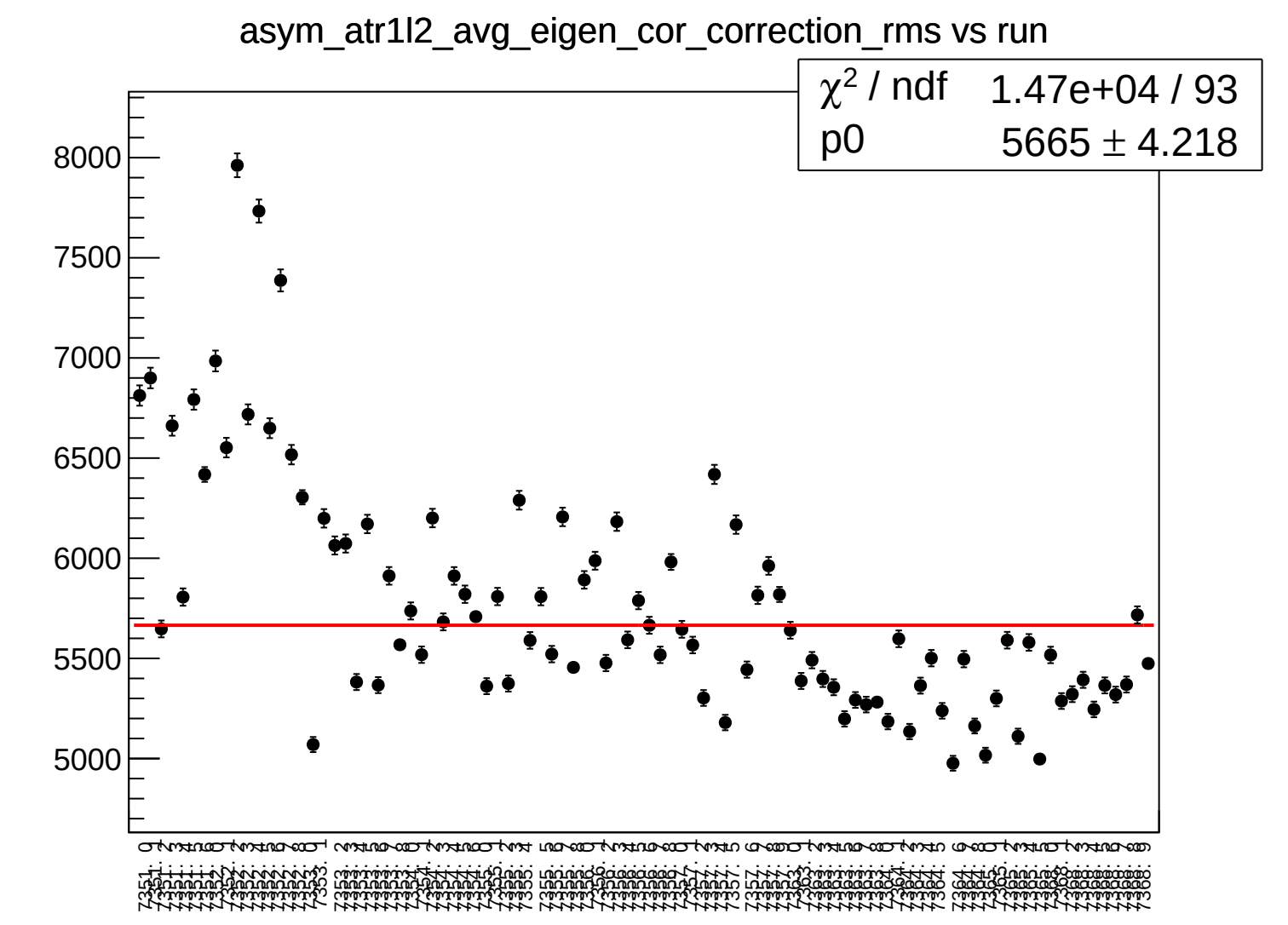

pull1D
Entries 94
Mean 0.0125
Std Dev 0.9056

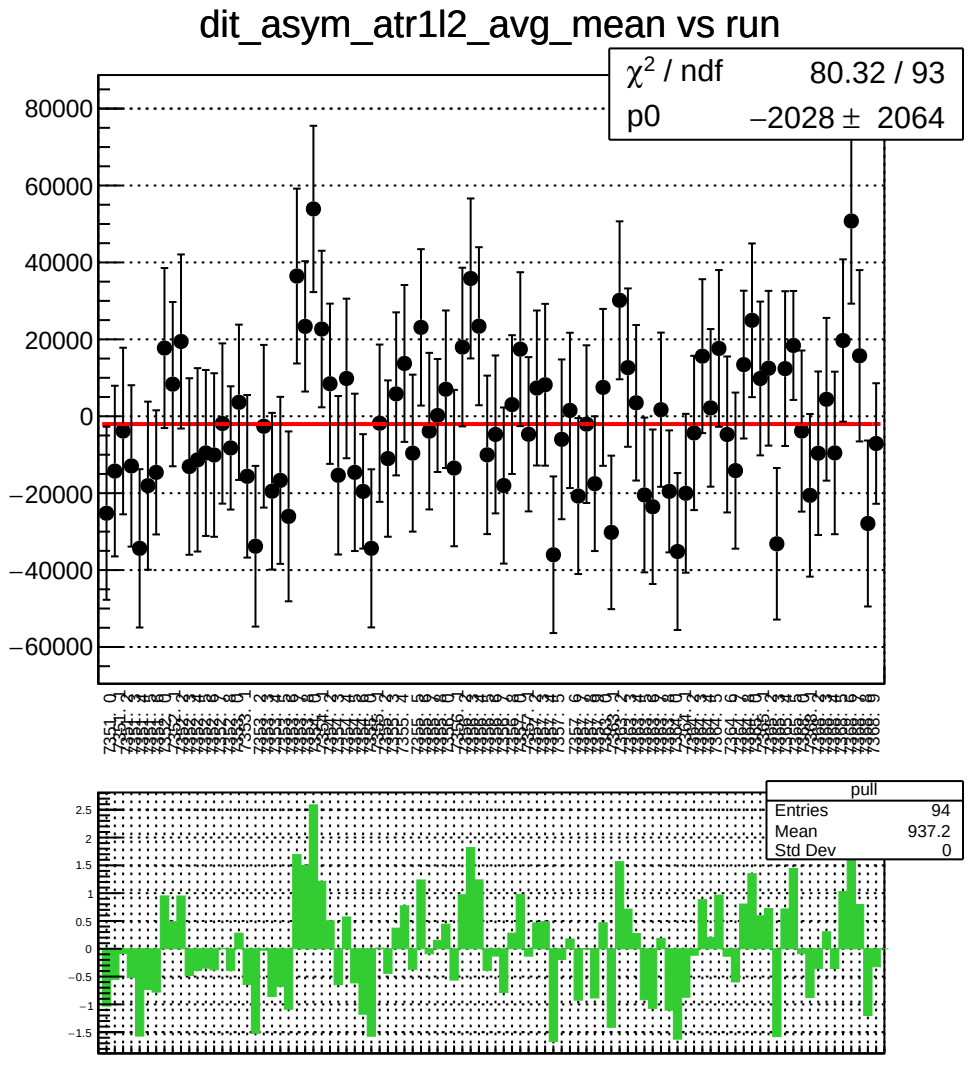

asym_atr1l2_avg_cor_correction_rms vs run
χ² / ndf 1.47e+04 / 93
p0 5665 ± 4.218
8000
7500
7000
6500
6000
5500
5000

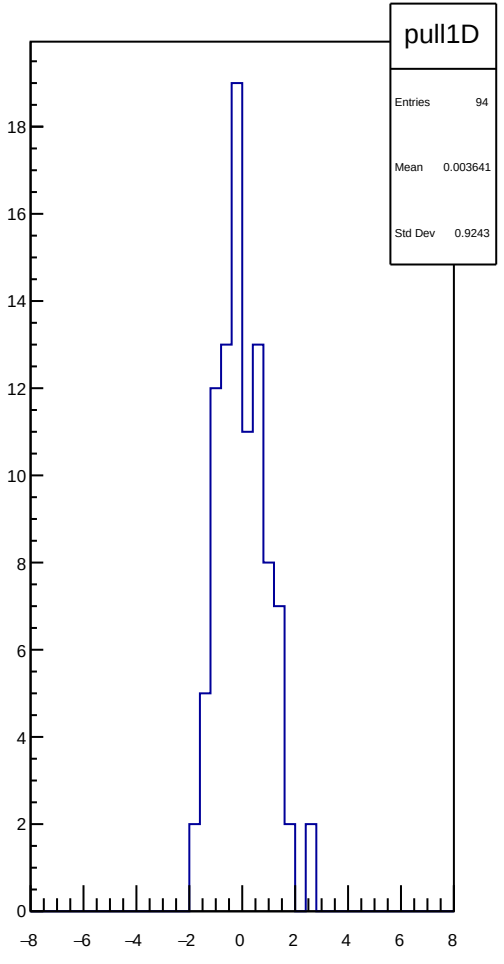

eigen_cor_asym_atr1l2_avg_mean vs run
χ² / ndf 99.9 / 93
p0 −3058 ± 1834
pull
Entries 94
Mean 9756
Std Dev 0
pull1D
Entries 94
Mean 0.0003923
Std Dev 1.031

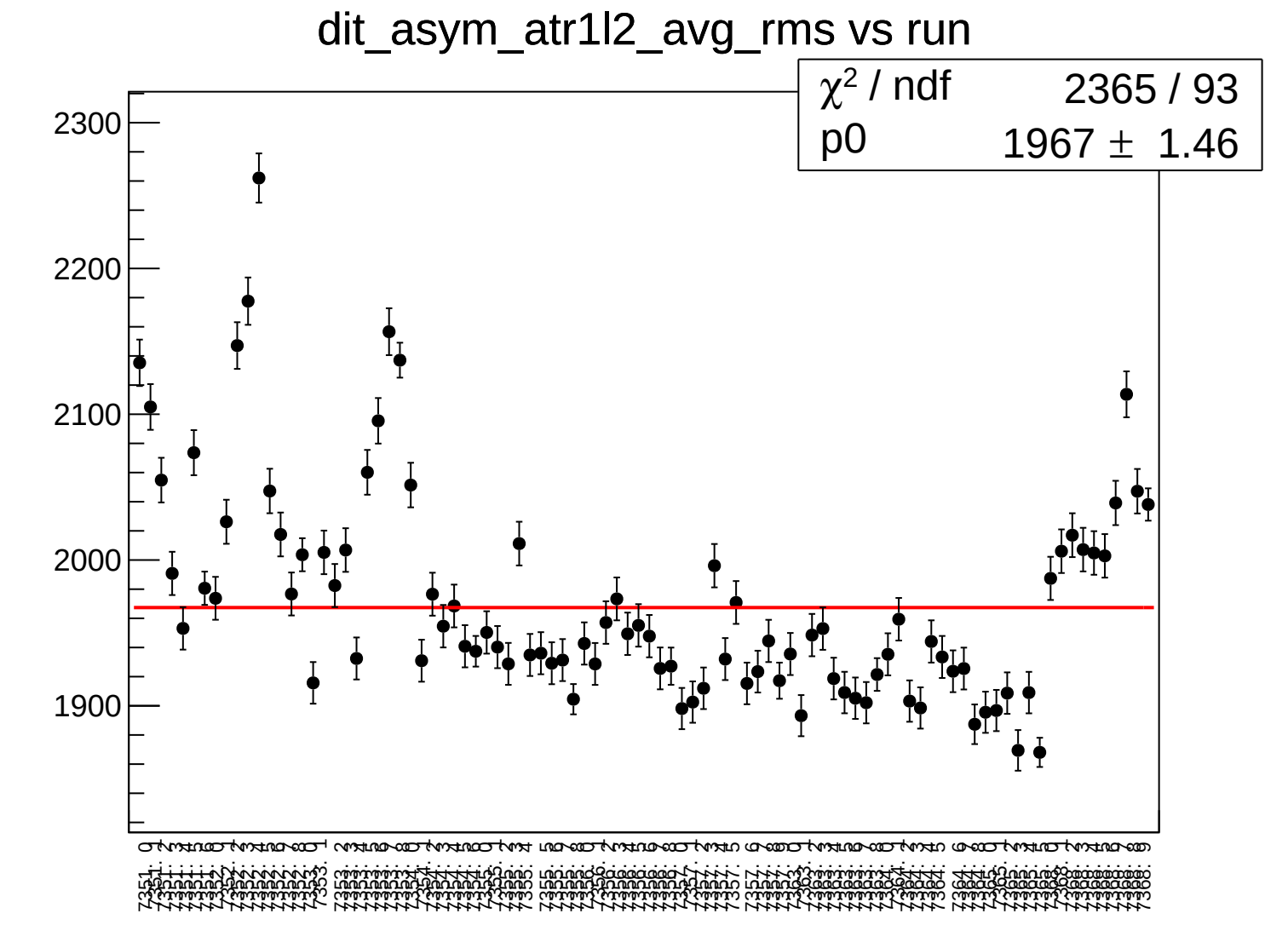

eigen_cor_asym_atr1l2_avg_rms vs run
χ² / ndf 184.4 / 93
p0 1749 ± 1.297
1800
1780
1760
1740
1720
1700
1680
1660

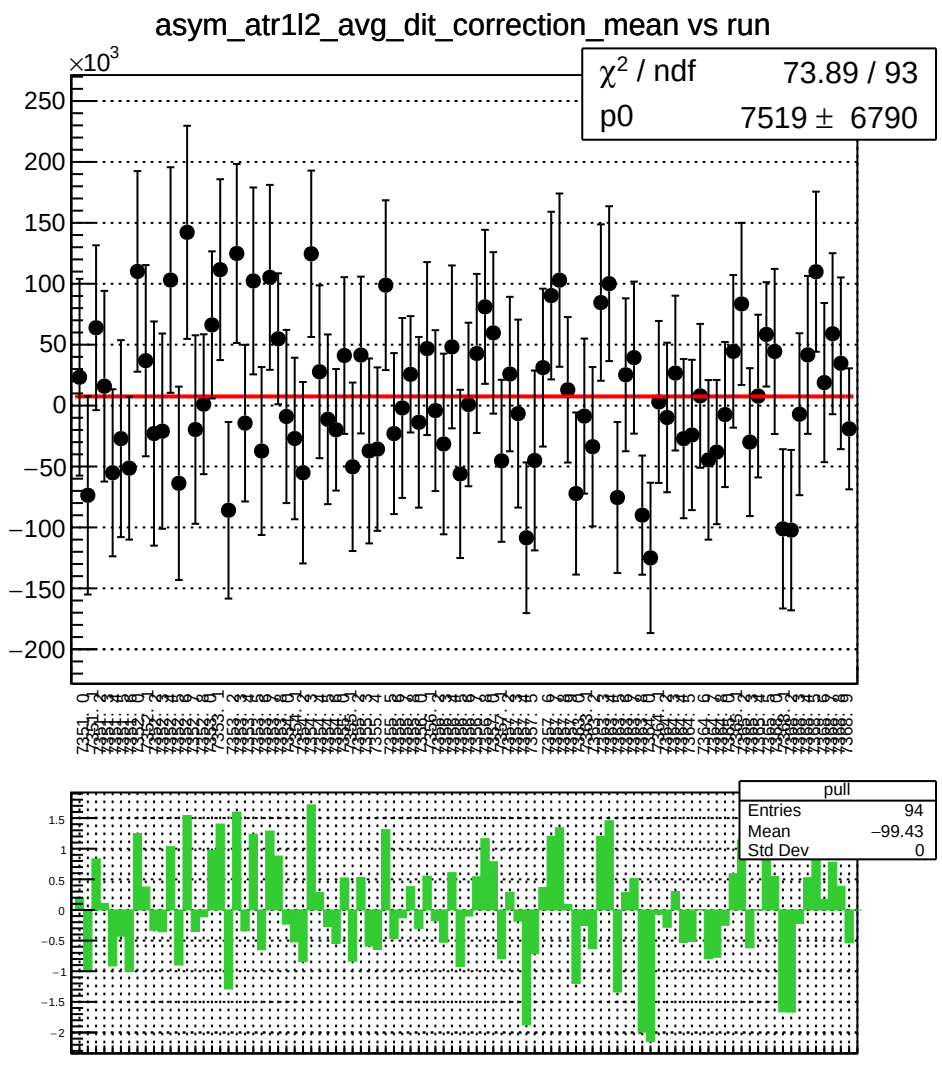

asym_atr1l2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 77.11 / 93
p0 6656 ± 5965
pull
Entries 94
Mean −129
Std Dev 0
pull1D
Entries 94
Mean 0.0125
Std Dev 0.9056

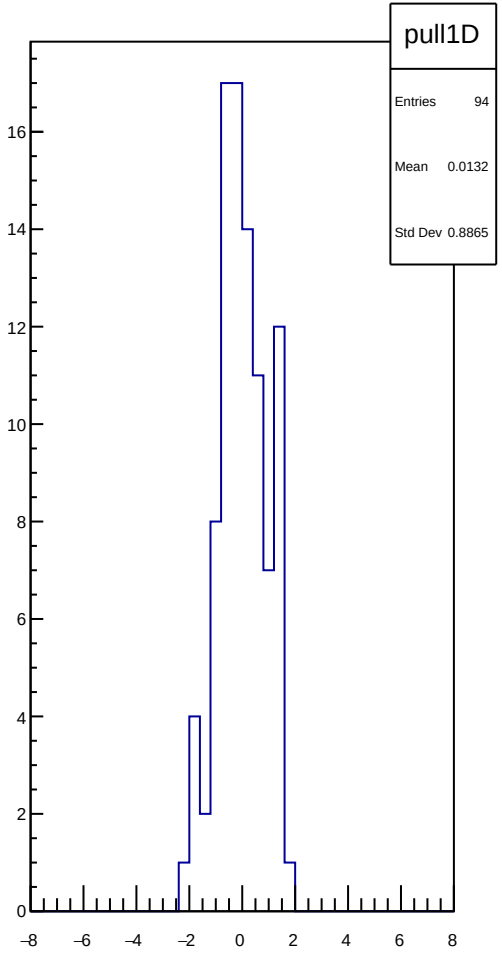

asym_atr1l2_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.47e+04 / 93
p0 5665 ± 4.218
8000
7500
7000
6500
6000
5500
5000

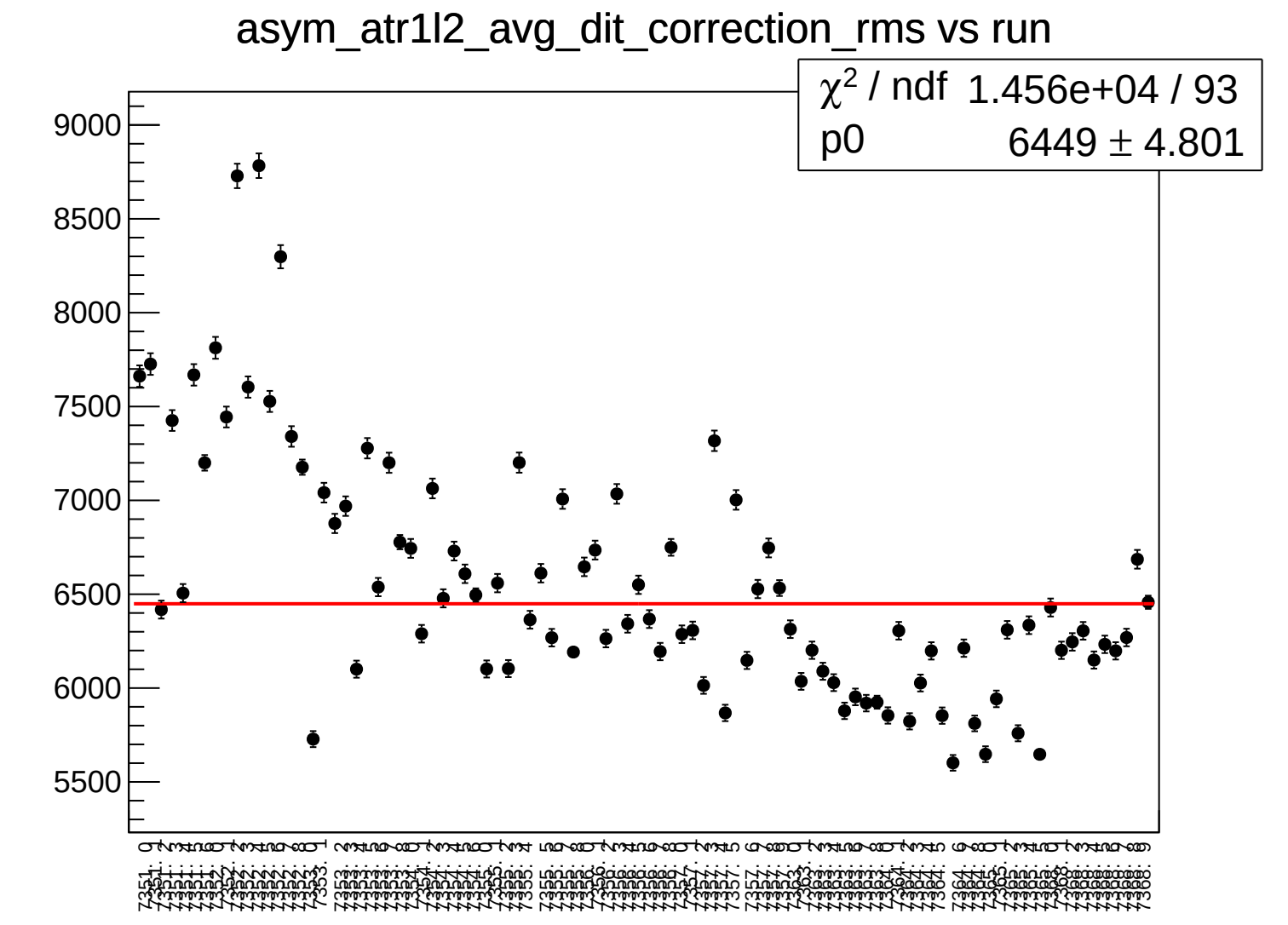

dit_asym_atr1l2_avg_mean vs run
χ² / ndf 80.32 / 93
p0 −2028 ± 2064
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 937.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

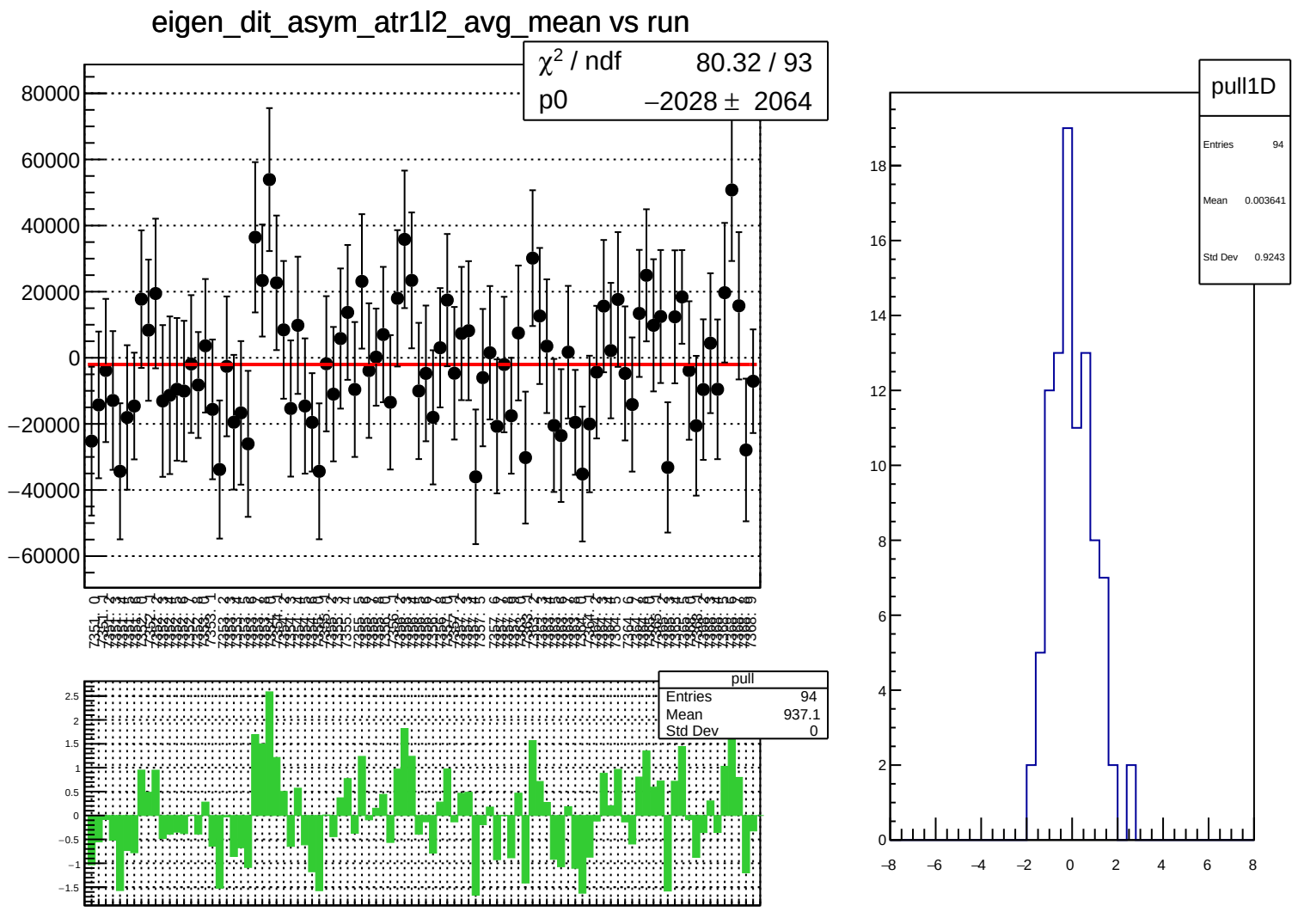

pull1D
Entries 94
Mean 0.003641
Std Dev 0.9243
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

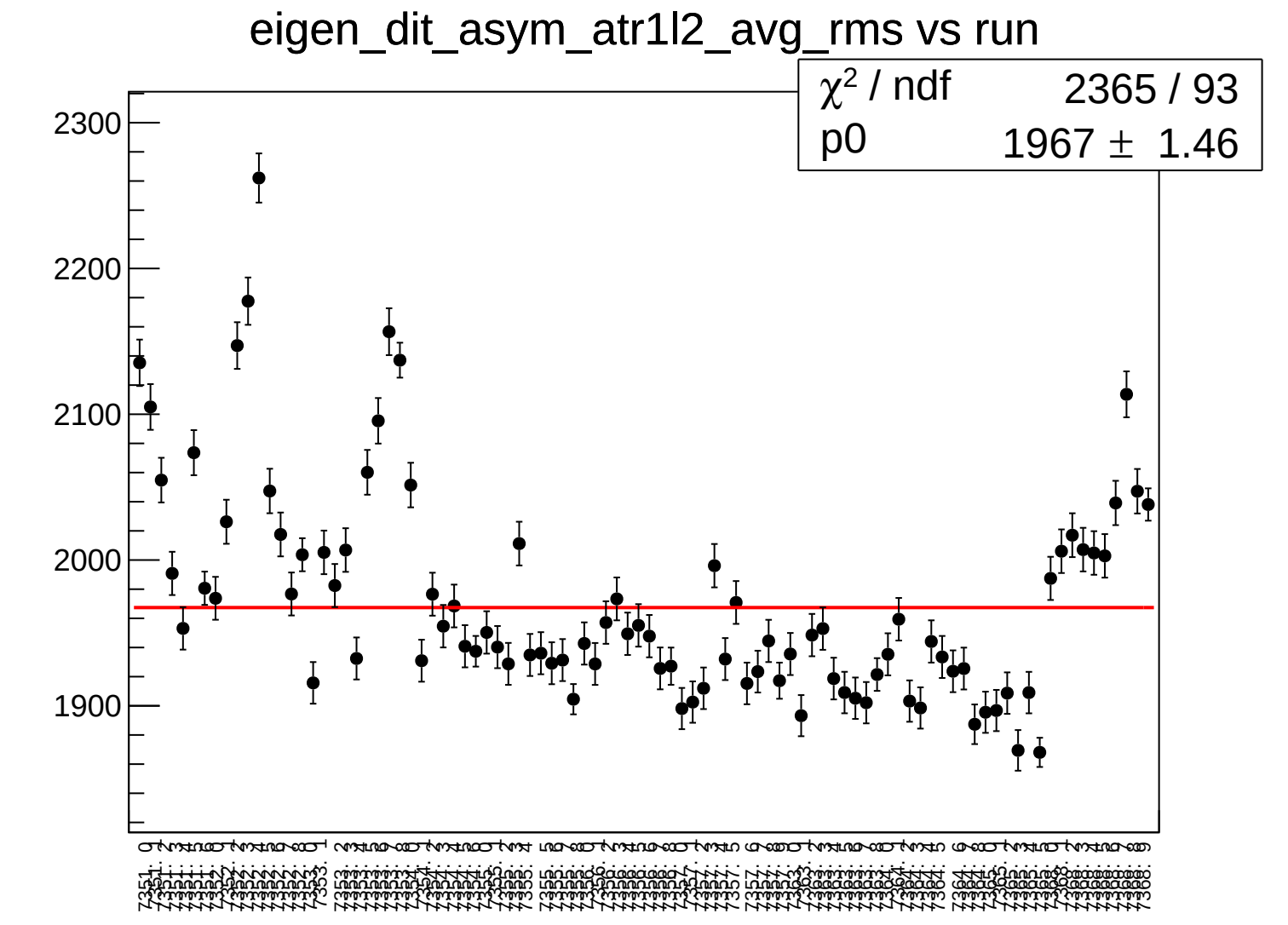

dit_asym_atr1l2_avg_rms vs run
χ² / ndf 2365 / 93
p0 1967 ± 1.46
2300
2200
2100
2000
1900

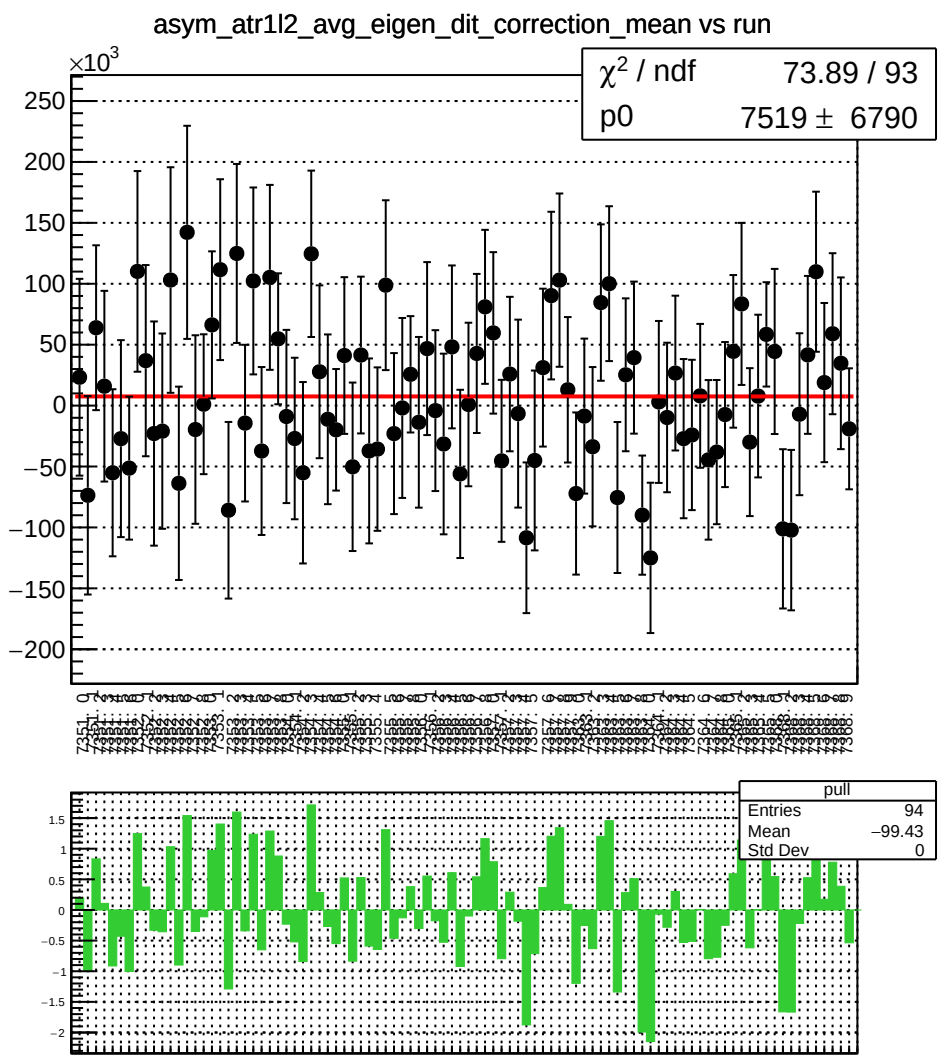

asym_atr1l2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 73.89 / 93
p0 7519 ± 6790
pull
Entries 94
Mean −99.43
Std Dev 0

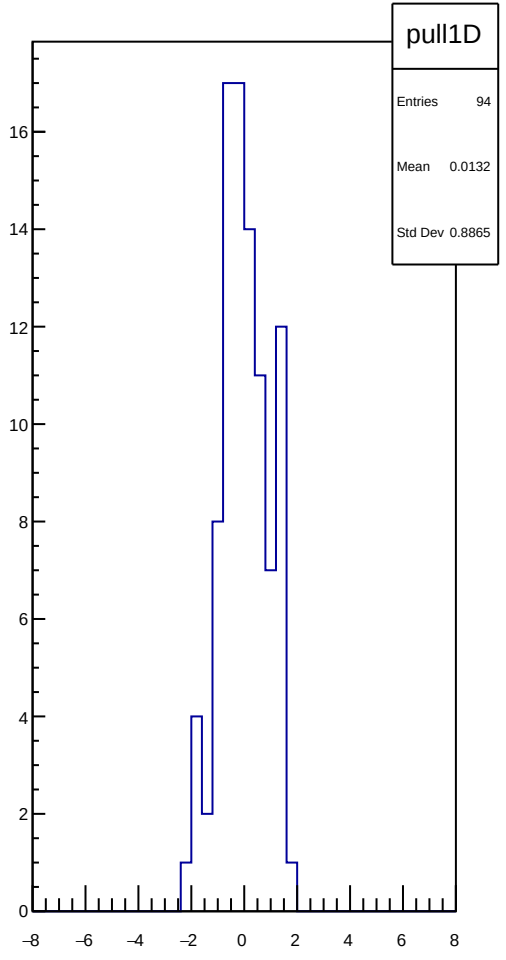

pull1D
Entries 94
Mean 0.0132
Std Dev 0.8865

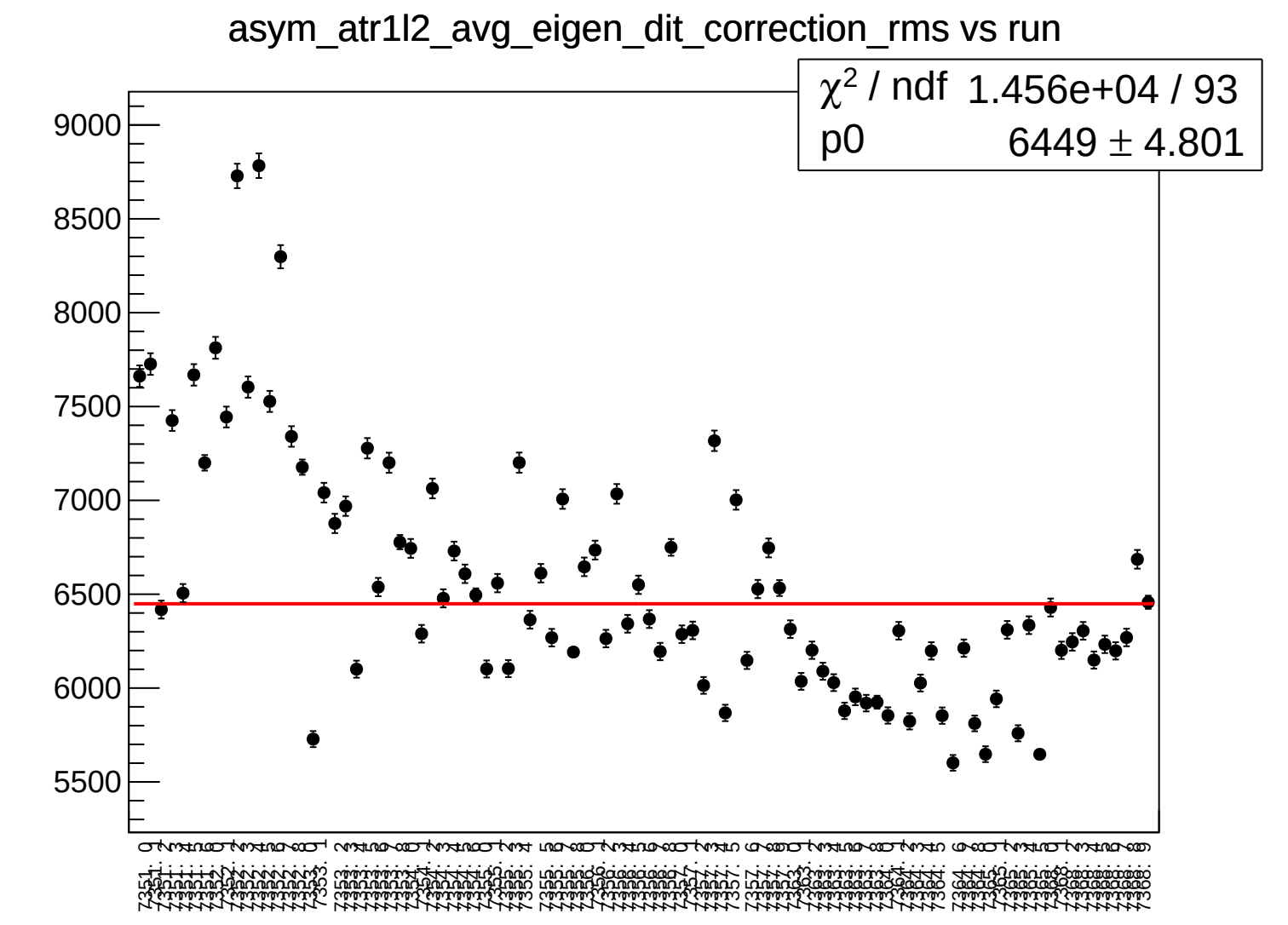

asym_atr1l2_avg_dit_correction_rms vs run
χ² / ndf 1.456e+04 / 93
p0 6449 ± 4.801
9000
8500
8000
7500
7000
6500
6000
5500

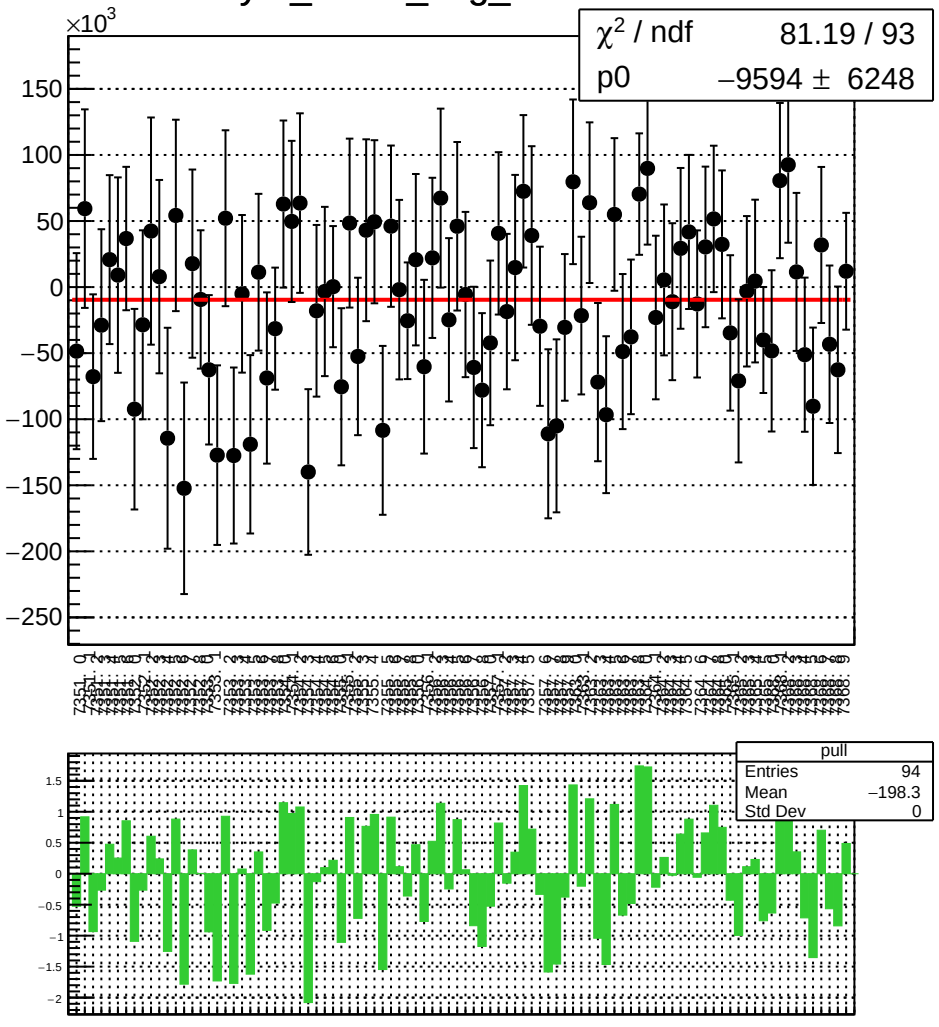

eigen_dit_asym_atr1l2_avg_mean vs run
χ² / ndf 80.32 / 93
p0 −2028 ± 2064
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 937.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 94
Mean 0.003641
Std Dev 0.9243
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

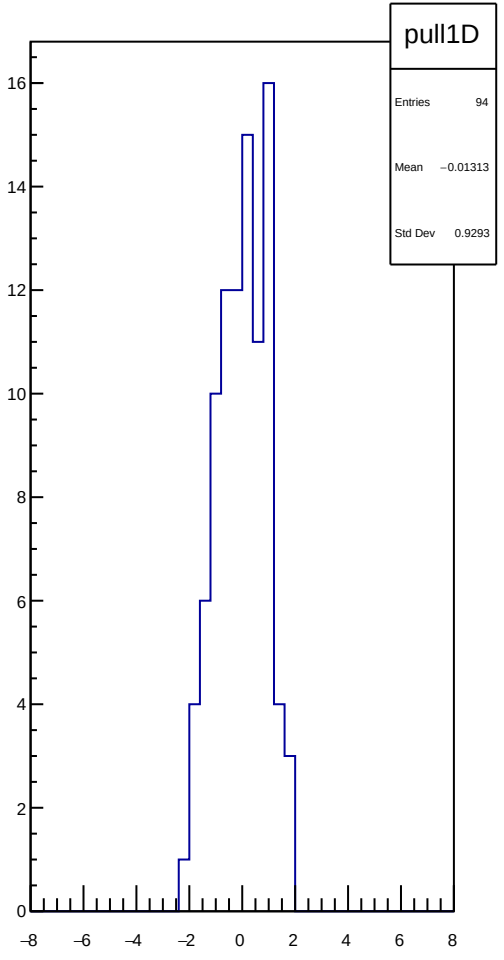

eigen_dit_asym_atr1l2_avg_rms vs run
χ² / ndf 2365 / 93
p0 1967 ± 1.46
2300
2200
2100
2000
1900

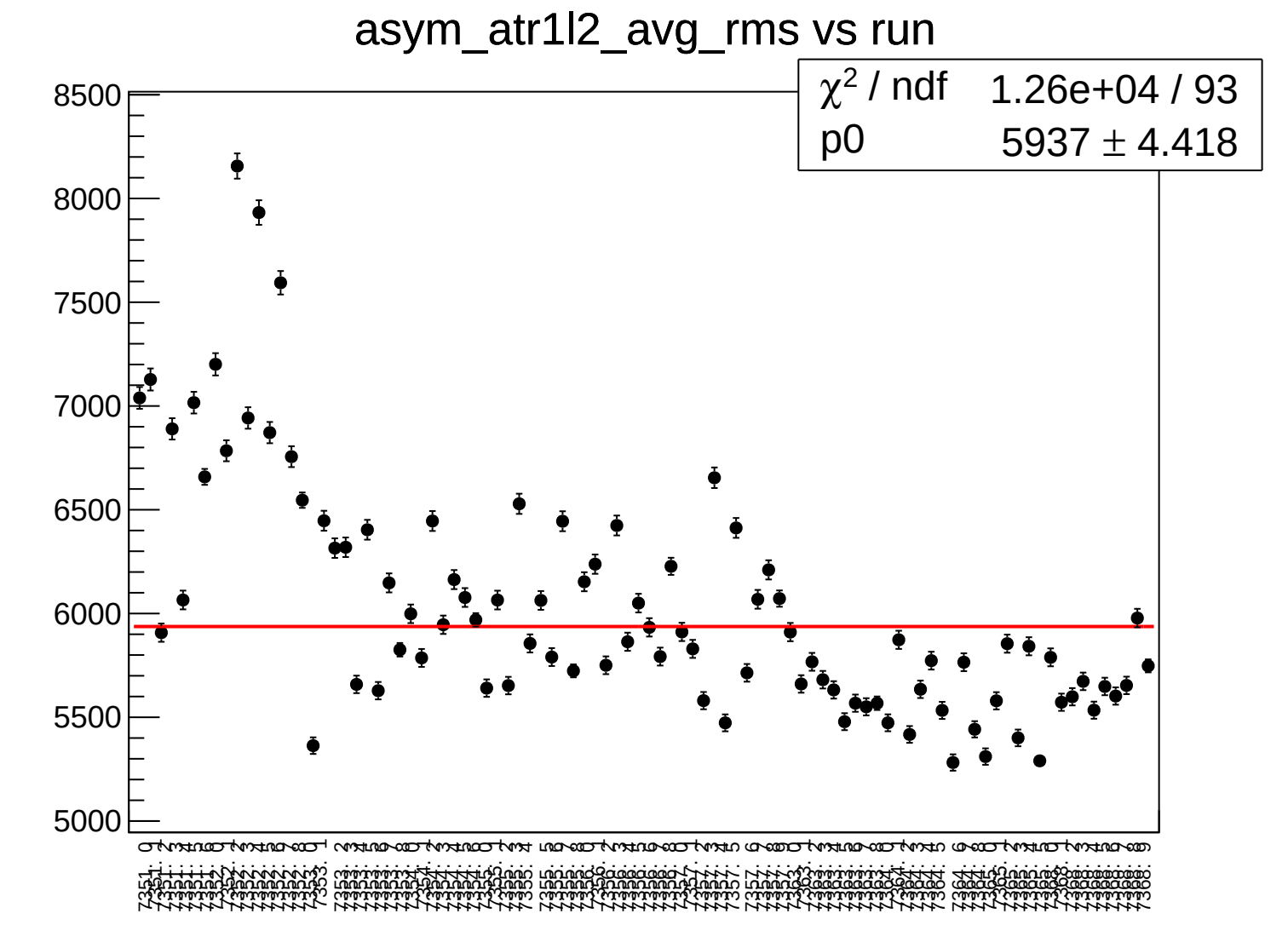

asym_atr1l2_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 73.89 / 93
p0 7519 ± 6790
250
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 94
Mean −99.43
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

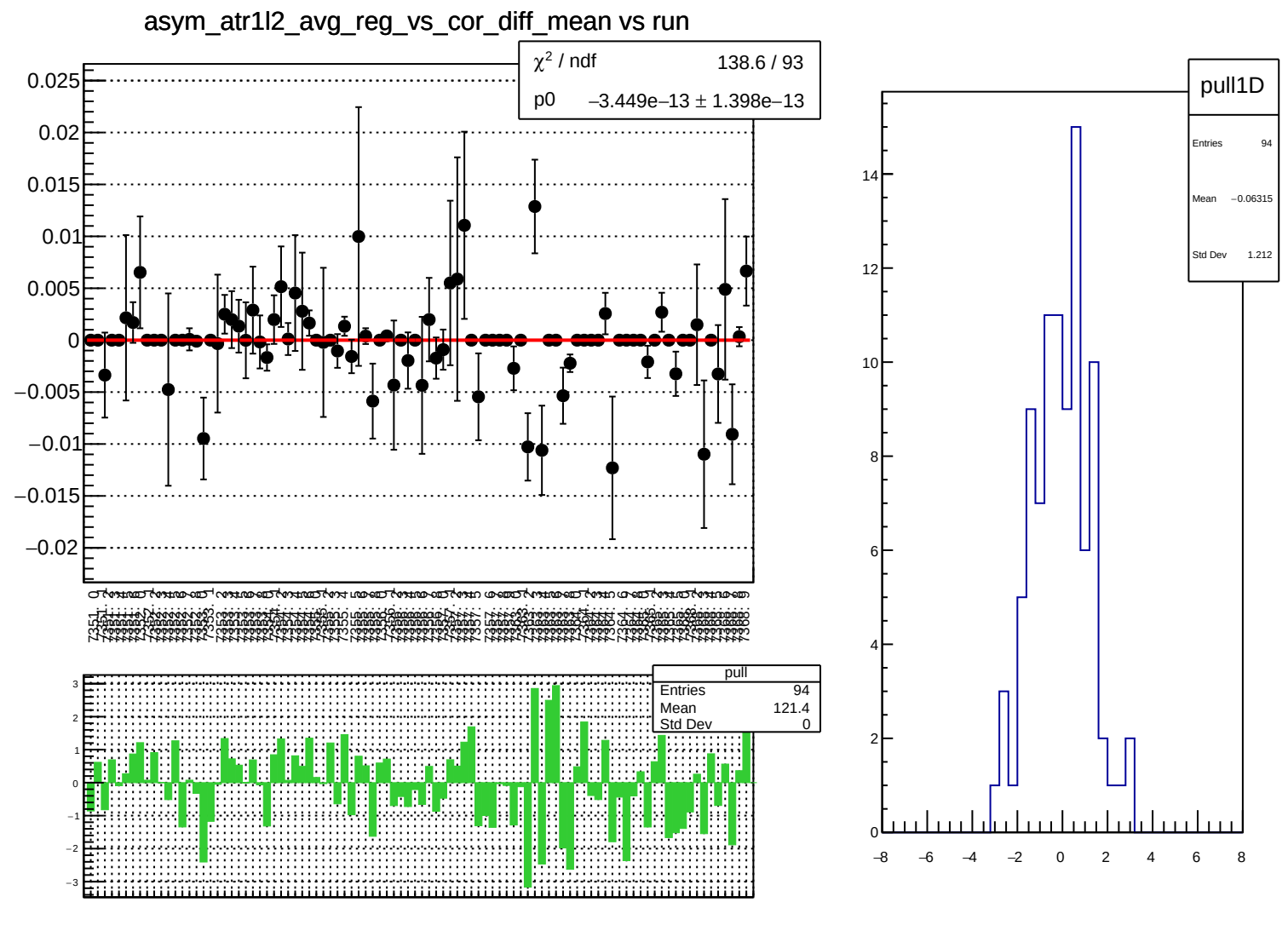

pull1D
Entries 94
Mean 0.0132
Std Dev 0.8865
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

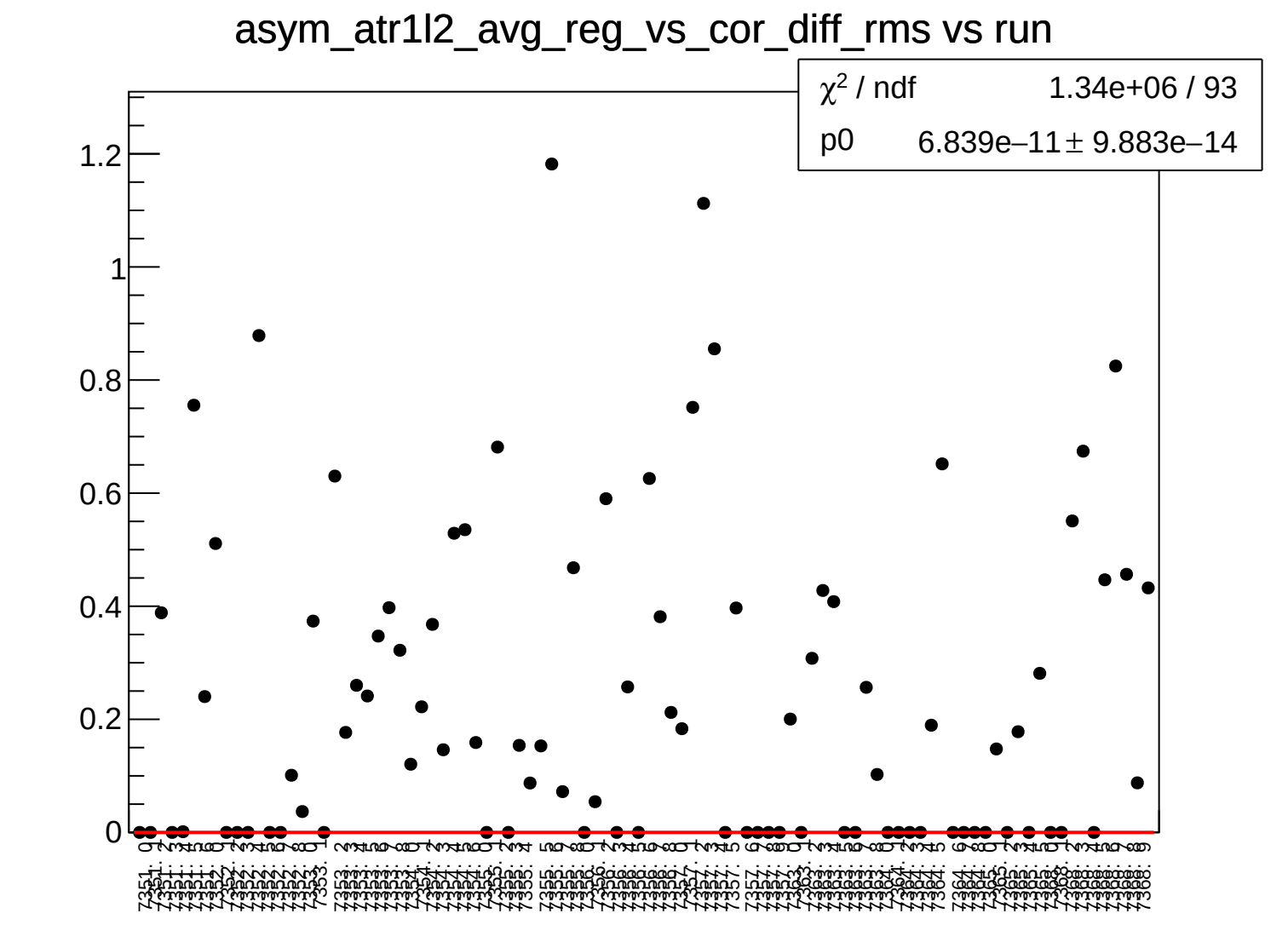

asym_atr1l2_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.456e+04 / 93
p0 6449 ± 4.801
9000
8500
8000
7500
7000
6500
6000
5500

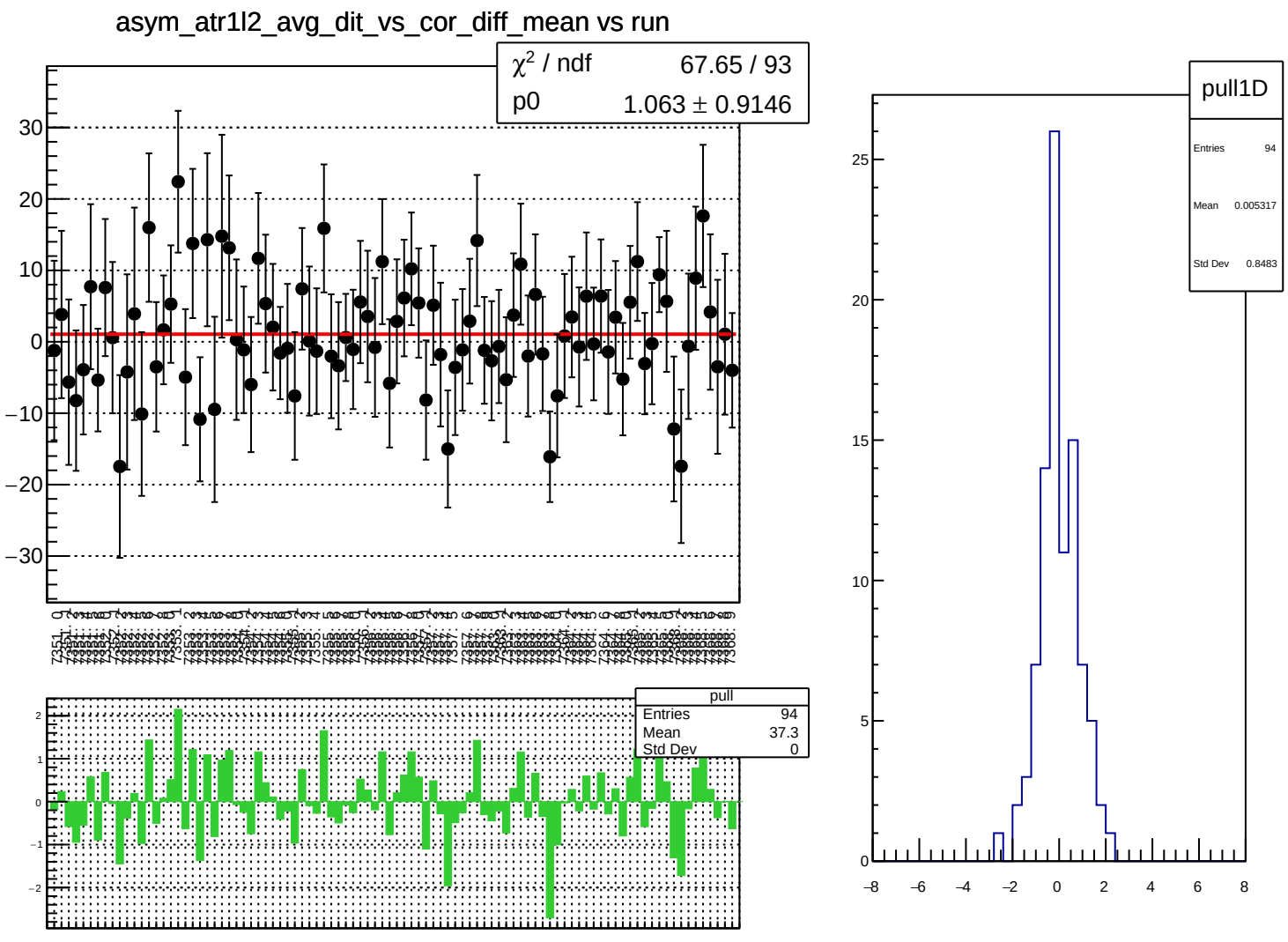

asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 81.19 / 93
p0 −9594 ± 6248
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 94
Mean −198.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

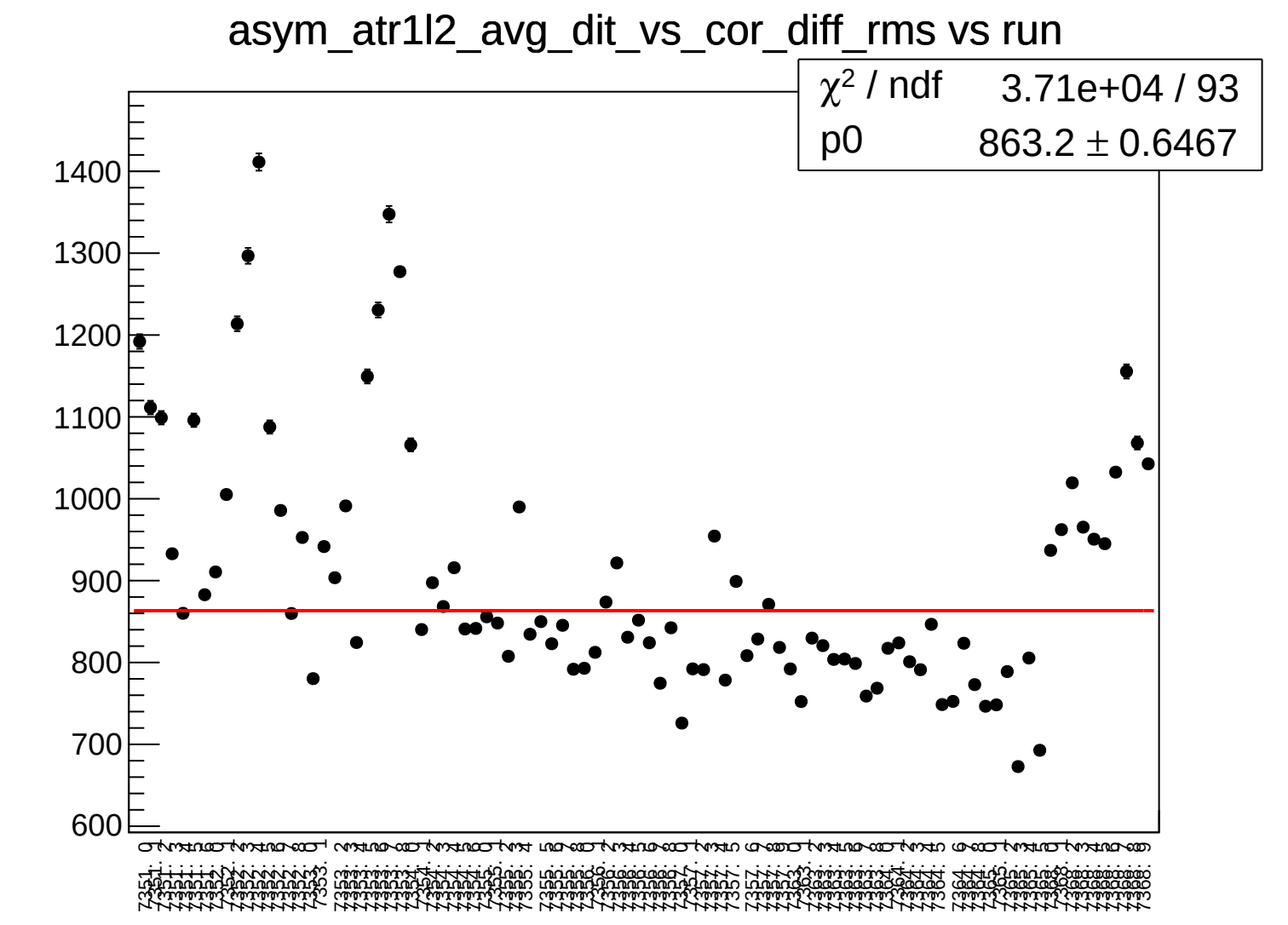

pull1D
Entries 94
Mean −0.01313
Std Dev 0.9293
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

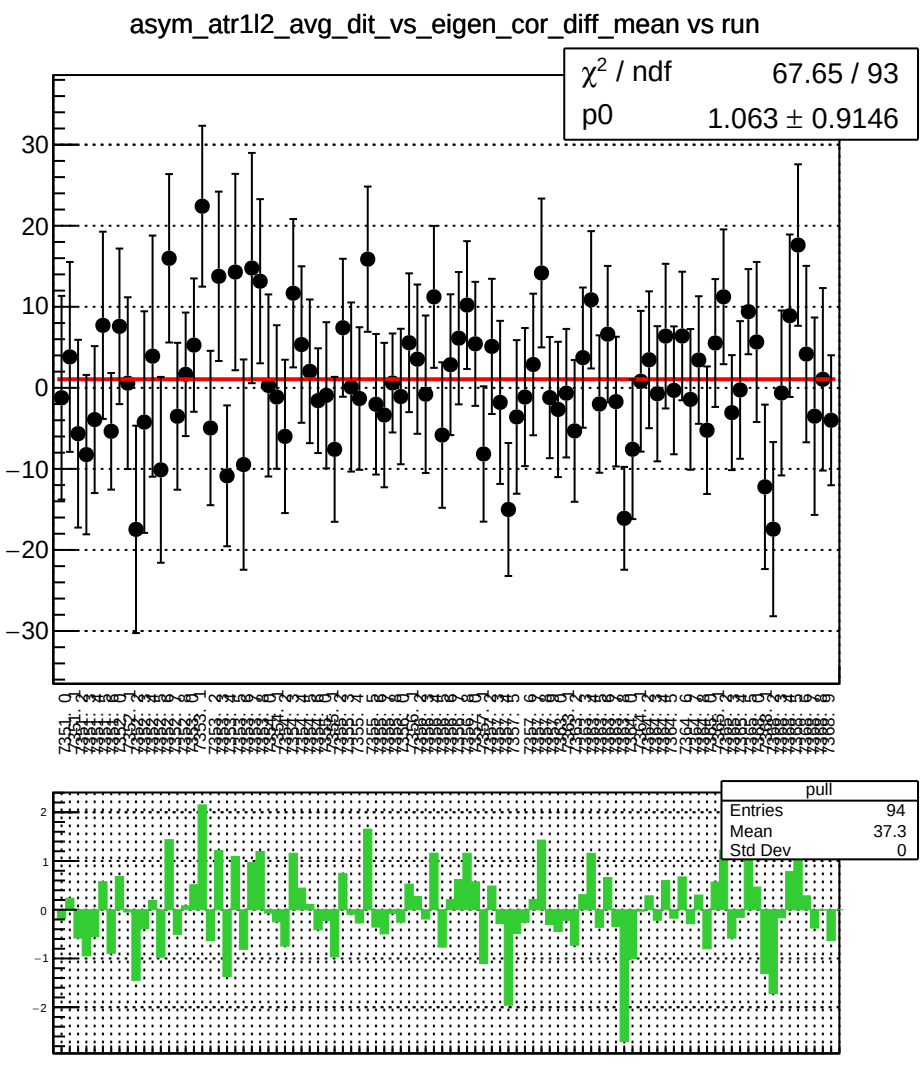

asym_atr1l2_avg_rms vs run
χ^2 / ndf 1.26e+04 / 93
p0 5937 ± 4.418
8500
8000
7500
7000
6500
6000
5500
5000

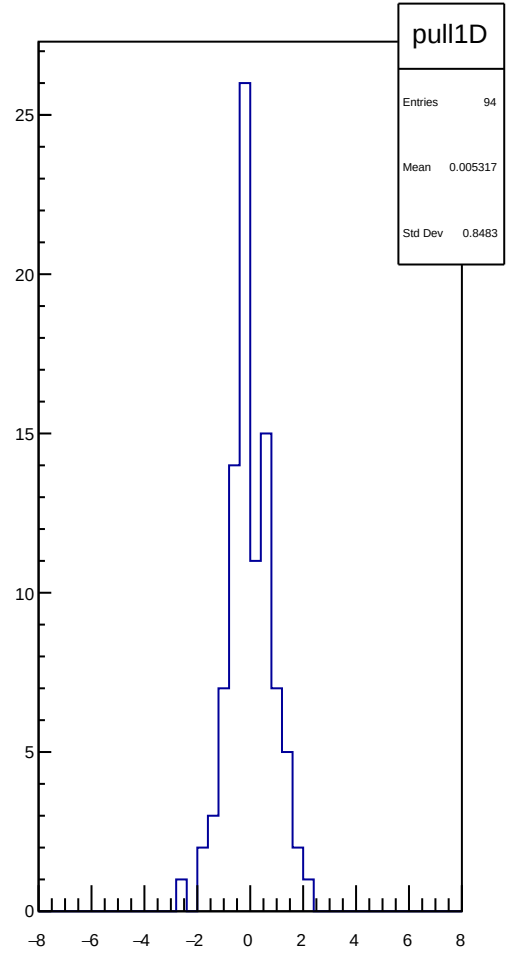

asym_atr1l2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 138.6 / 93
p0 −3.449e−13 ± 1.398e−13
pull
Entries 94
Mean 121.4
Std Dev 0
pull1D
Entries 94
Mean −0.06315
Std Dev 1.212

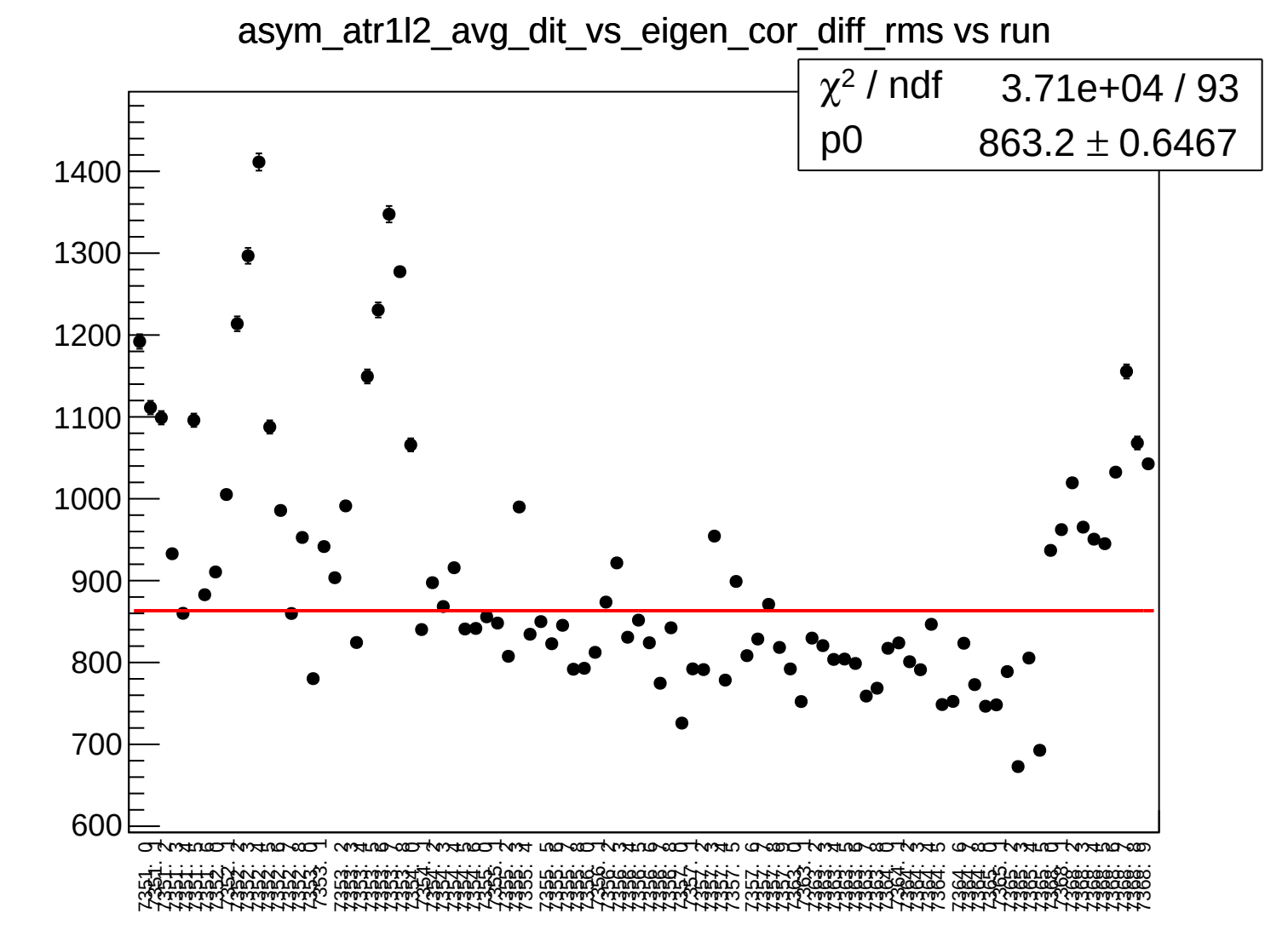

asym_atr1l2_avg_reg_vs_cor_diff_rms vs run
χ^2 / ndf 1.34e+06 / 93
p0 6.839e−11 ± 9.883e−14
1.2
1
0.8
0.6
0.4
0.2
0

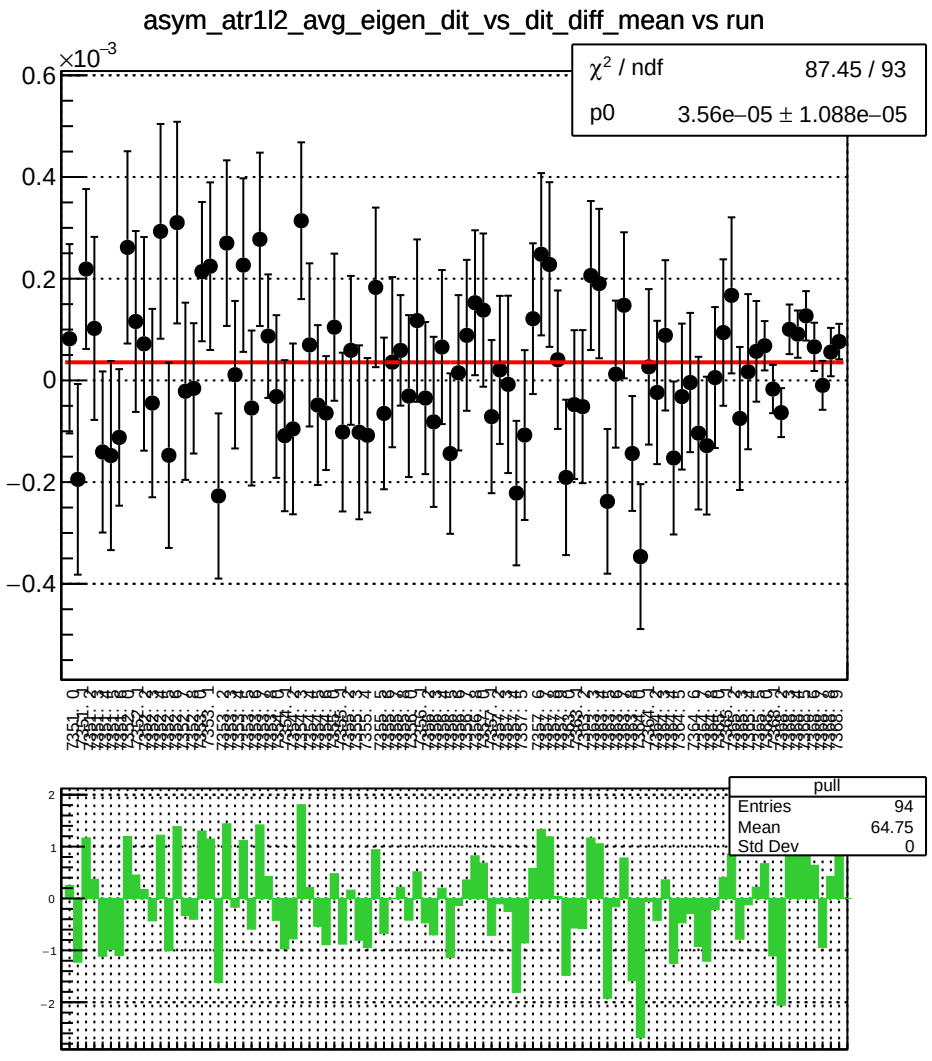

asym_atr1l2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 67.65 / 93
p0 1.063 ± 0.9146
pull
Entries 94
Mean 37.3
Std Dev 0
pull1D
Entries 94
Mean 0.005317
Std Dev 0.8483

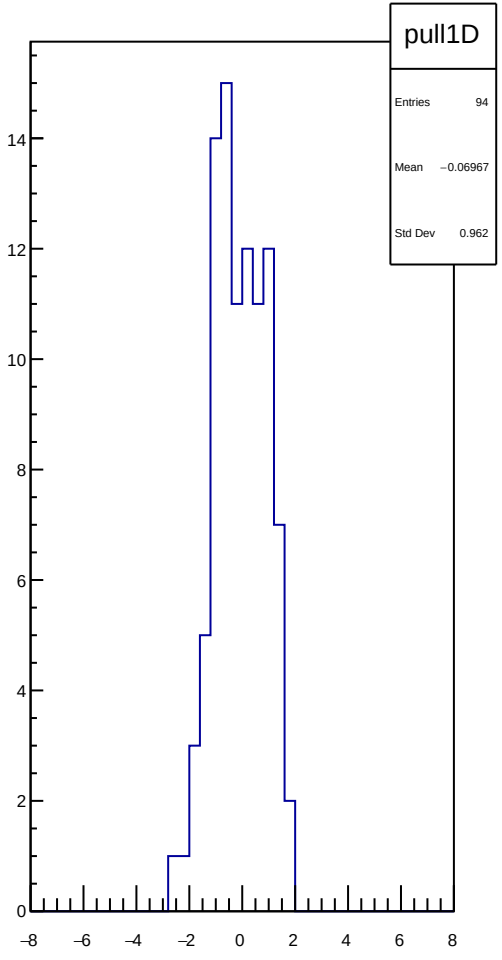

asym_atr1l2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.71e+04 / 93
p0 863.2 ± 0.6467
1400
1300
1200
1100
1000
900
800
700
600

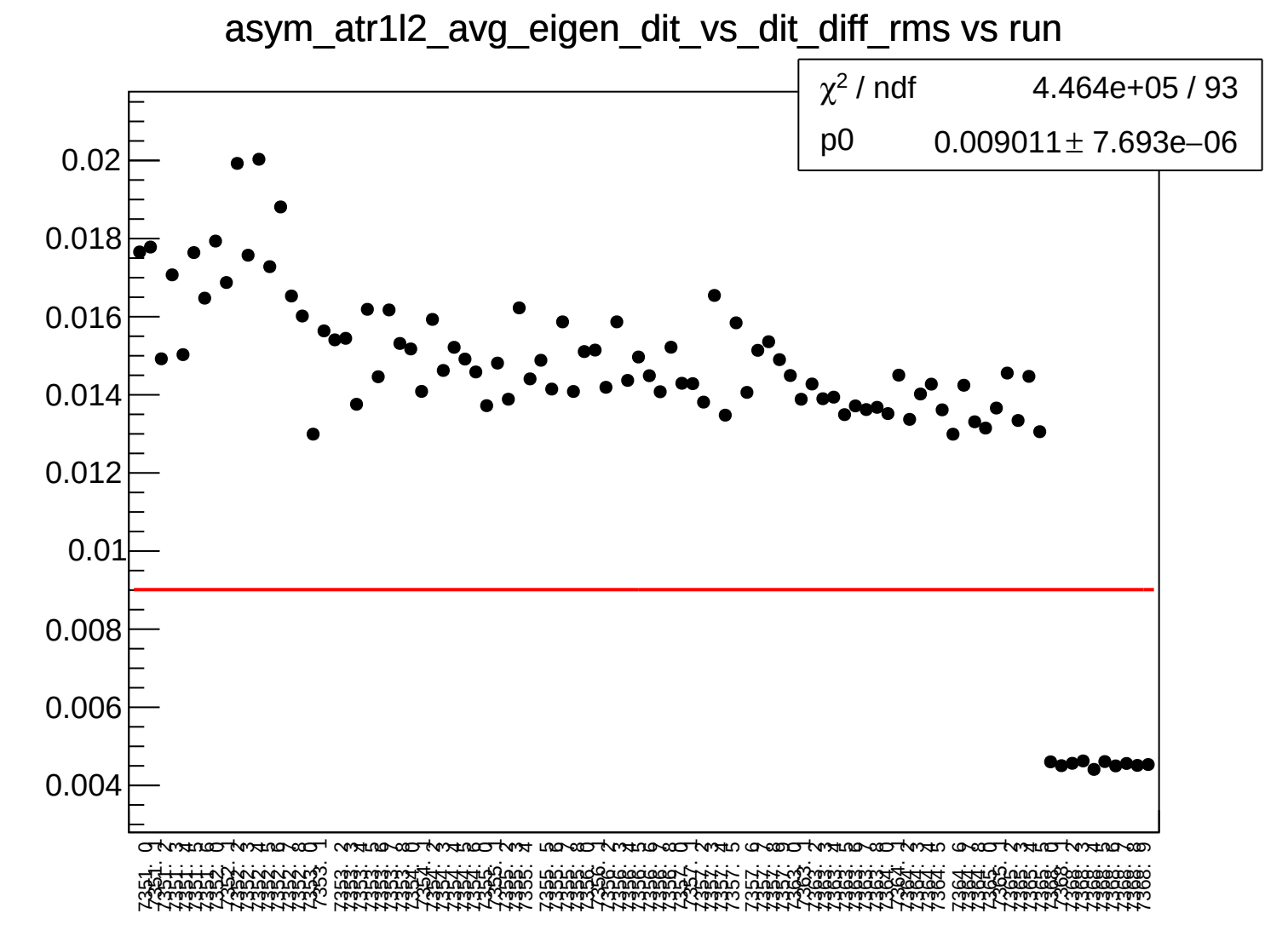

asym_atr1l2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.65 / 93
p0 1.063 ± 0.9146
pull
Entries 94
Mean 37.3
Std Dev 0

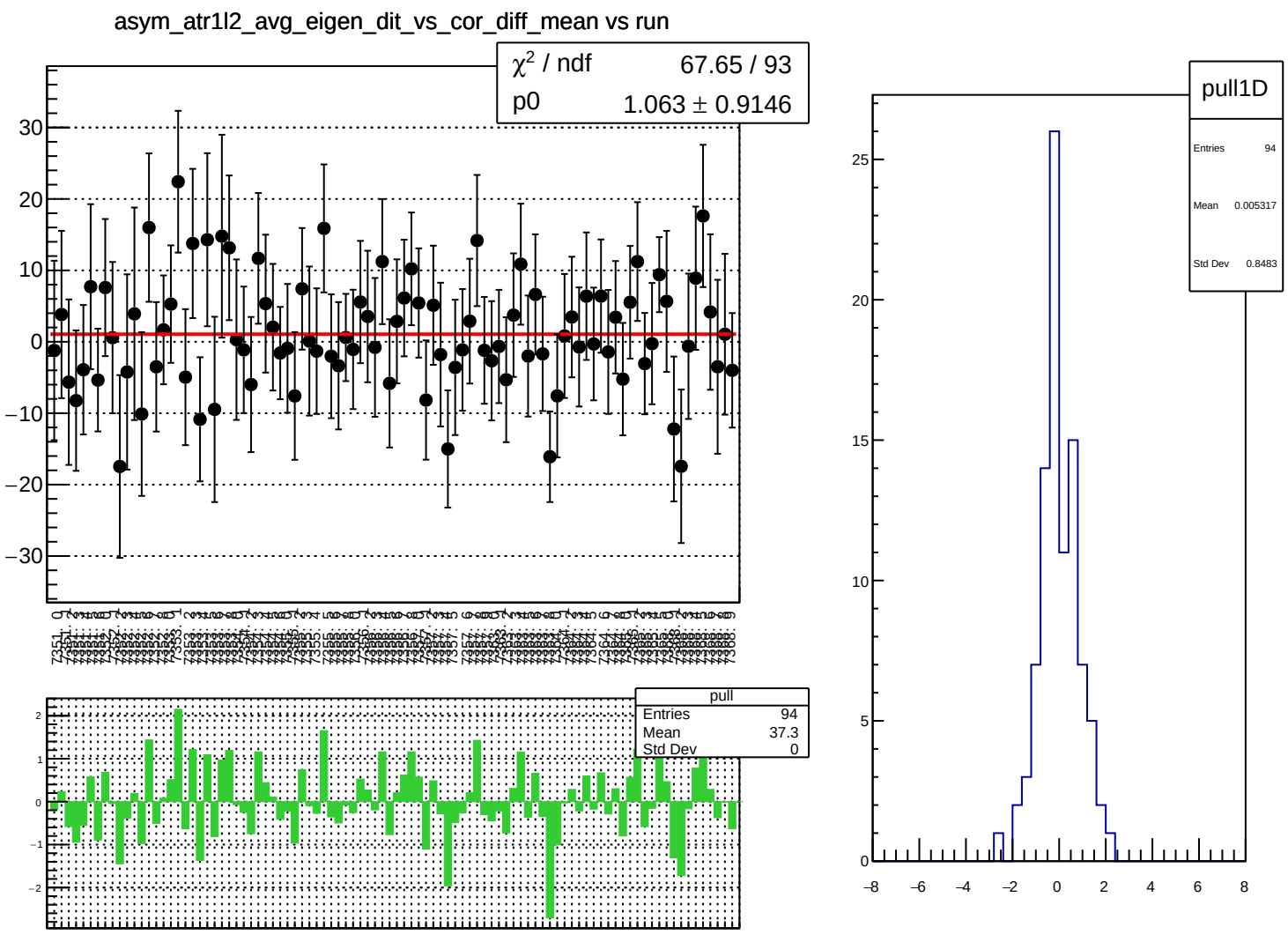

pull1D
Entries 94
Mean 0.005317
Std Dev 0.8483

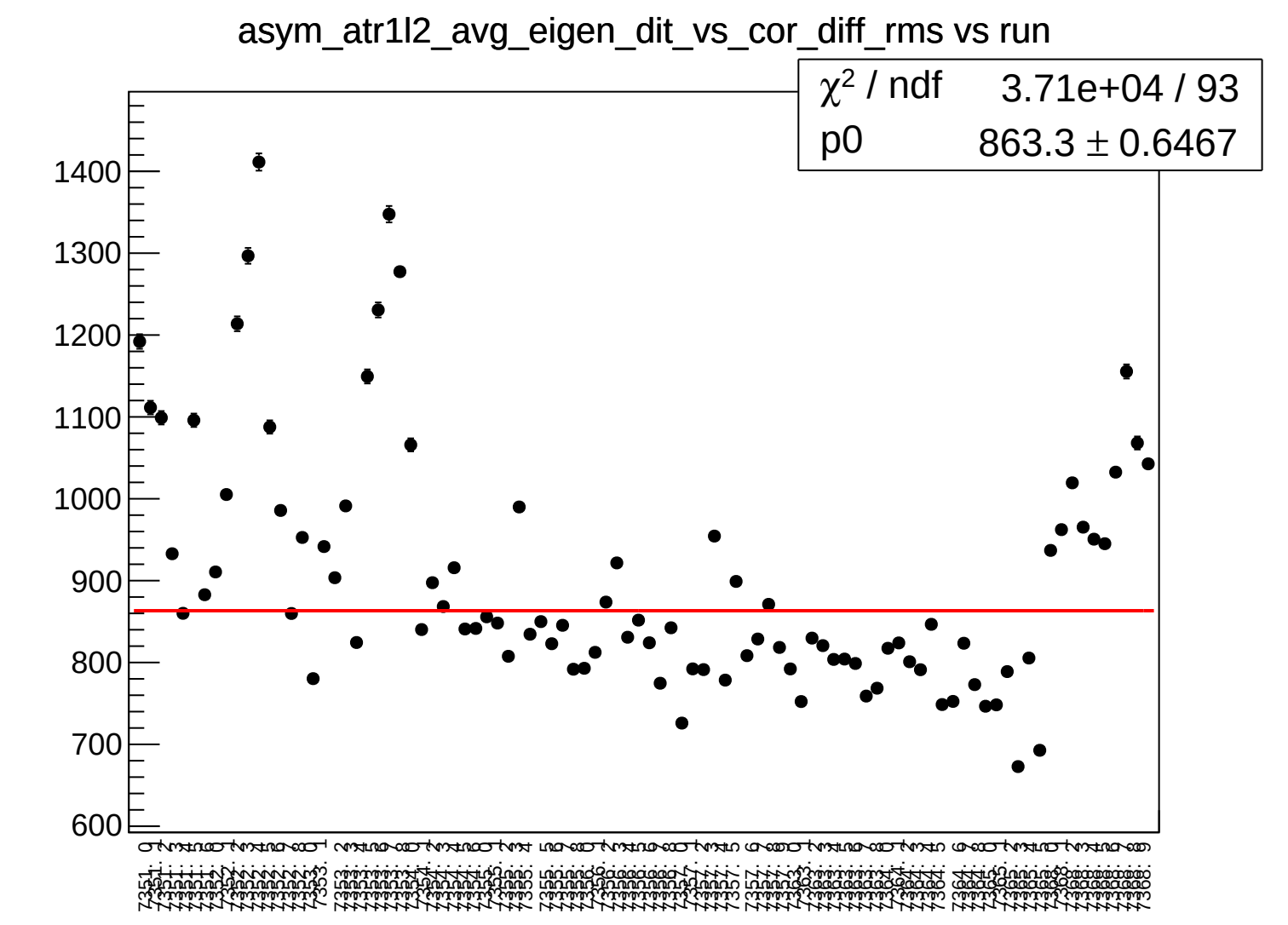

asym_atr1l2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.71e+04 / 93
p0 863.2 ± 0.6467
1400
1300
1200
1100
1000
900
800
700
600

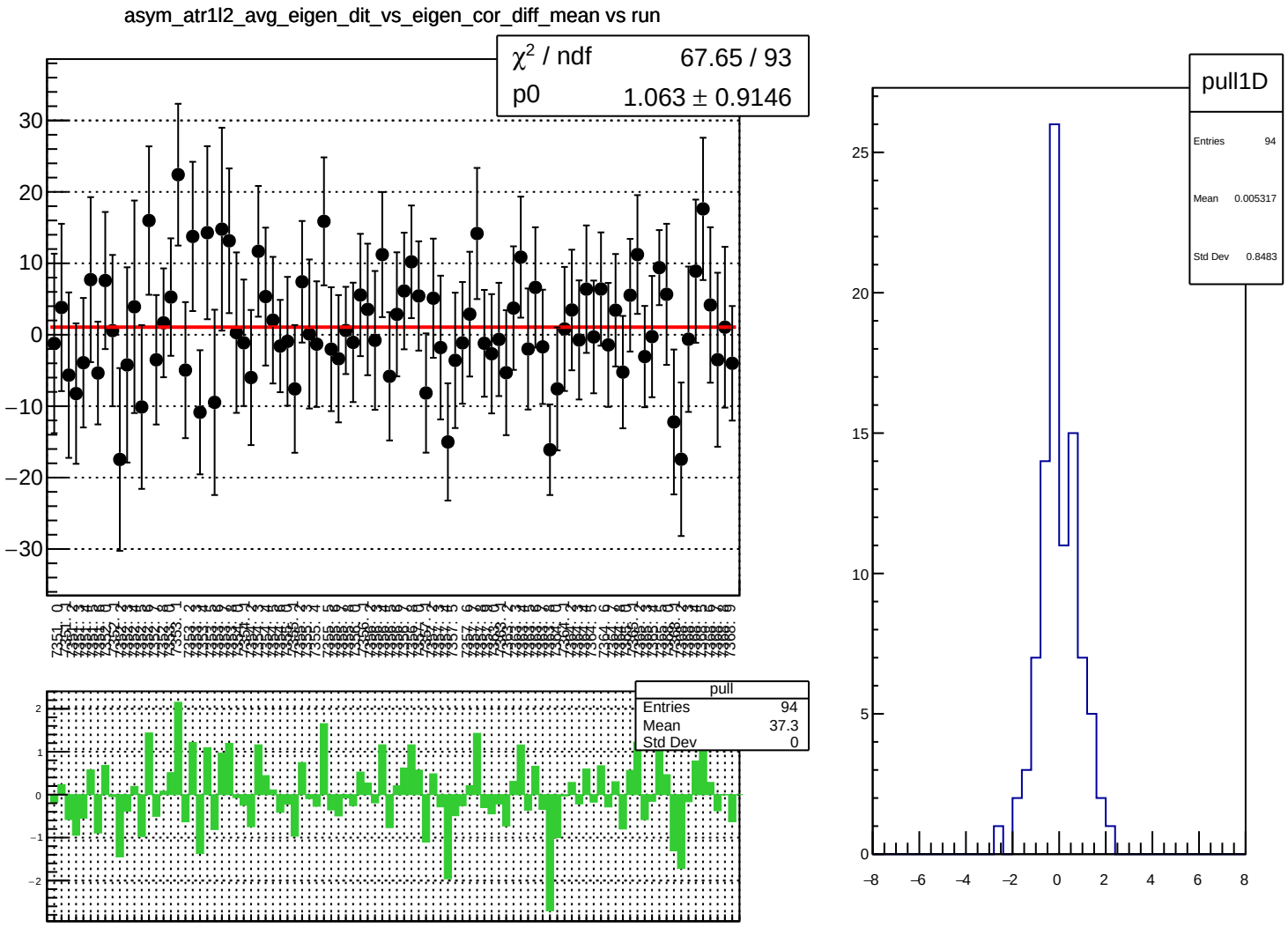

asym_atr1l2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.45 / 93
p0 3.56e−05 ± 1.088e−05
pull
Entries 94
Mean 64.75
Std Dev 0

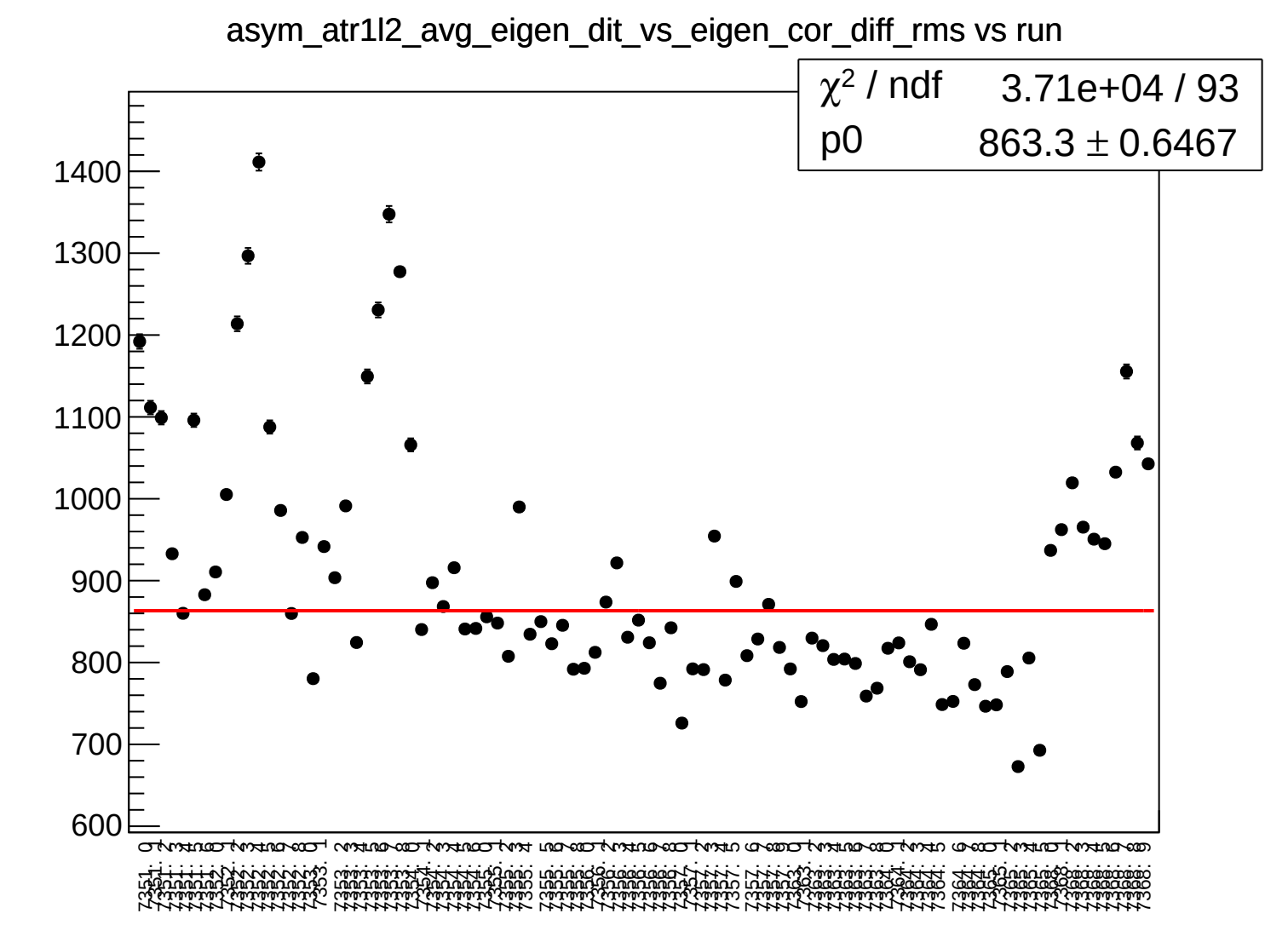

pull1D
Entries 94
Mean −0.06967
Std Dev 0.962

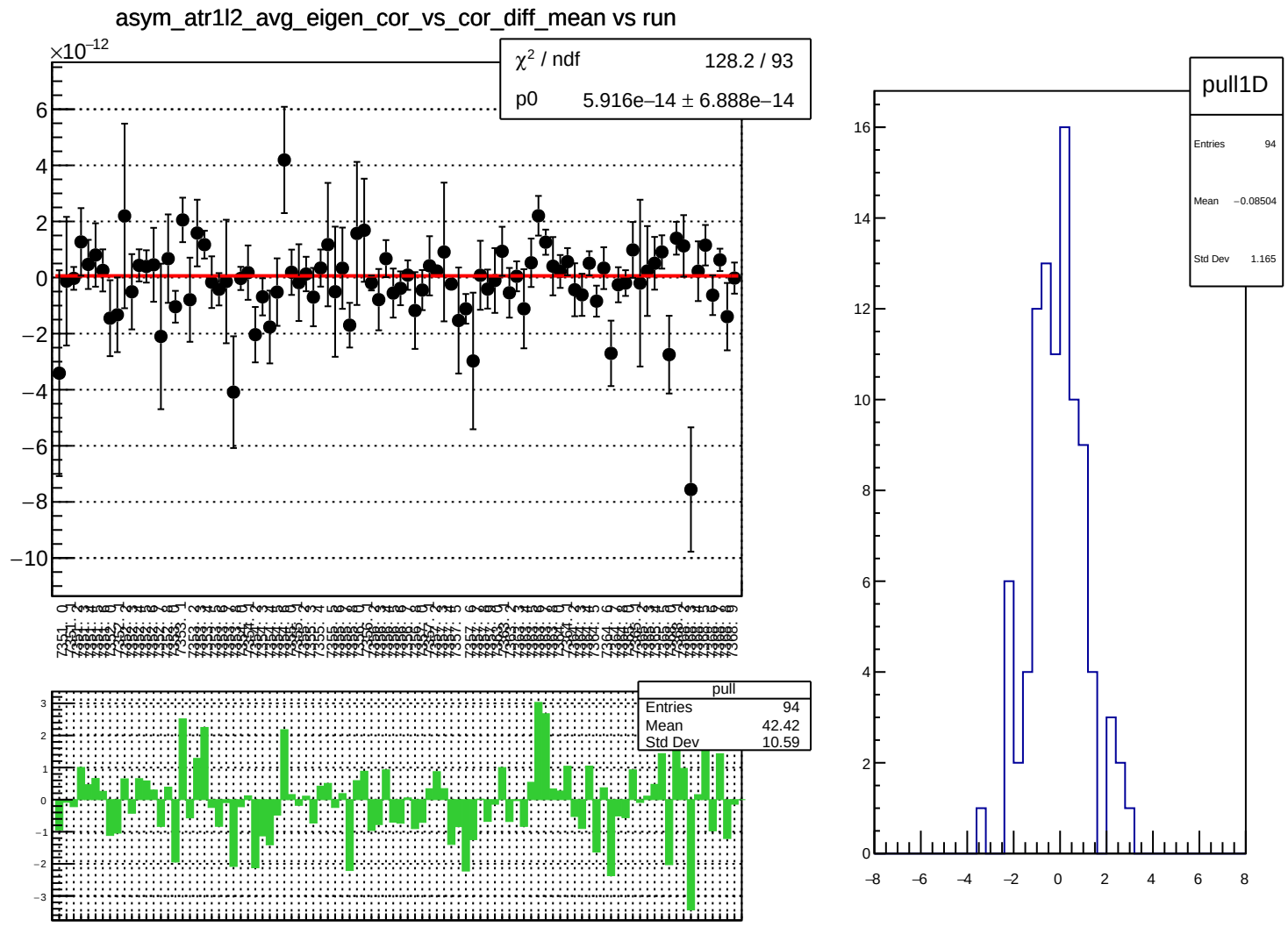

asym_atr1l2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.464e+05 / 93
p0 0.009011 ± 7.693e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

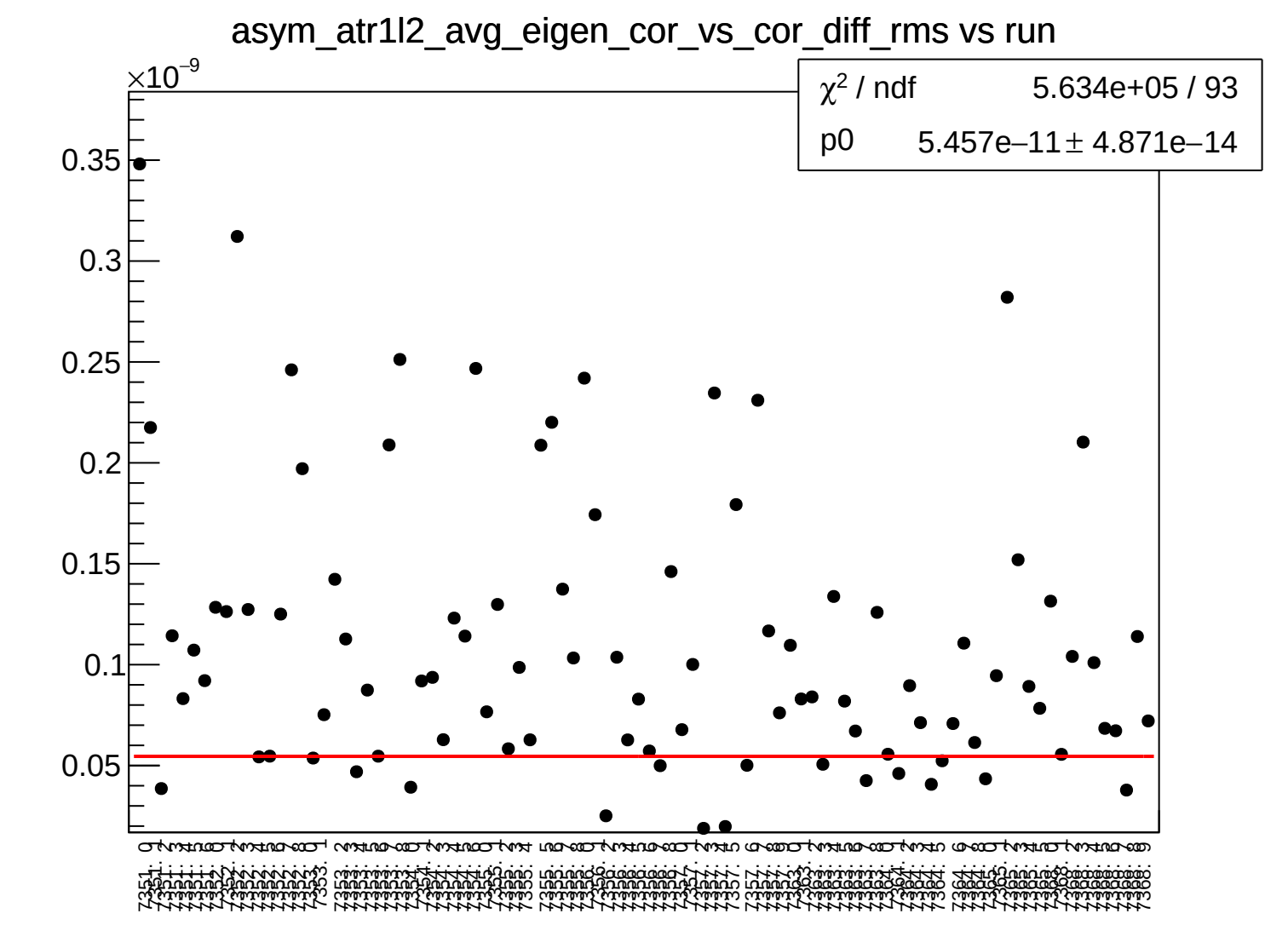

asym_atr1l2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 67.65 / 93
p0 1.063 ± 0.9146
pull
Entries 94
Mean 37.3
Std Dev 0
pull1D
Entries 94
Mean 0.005317
Std Dev 0.8483

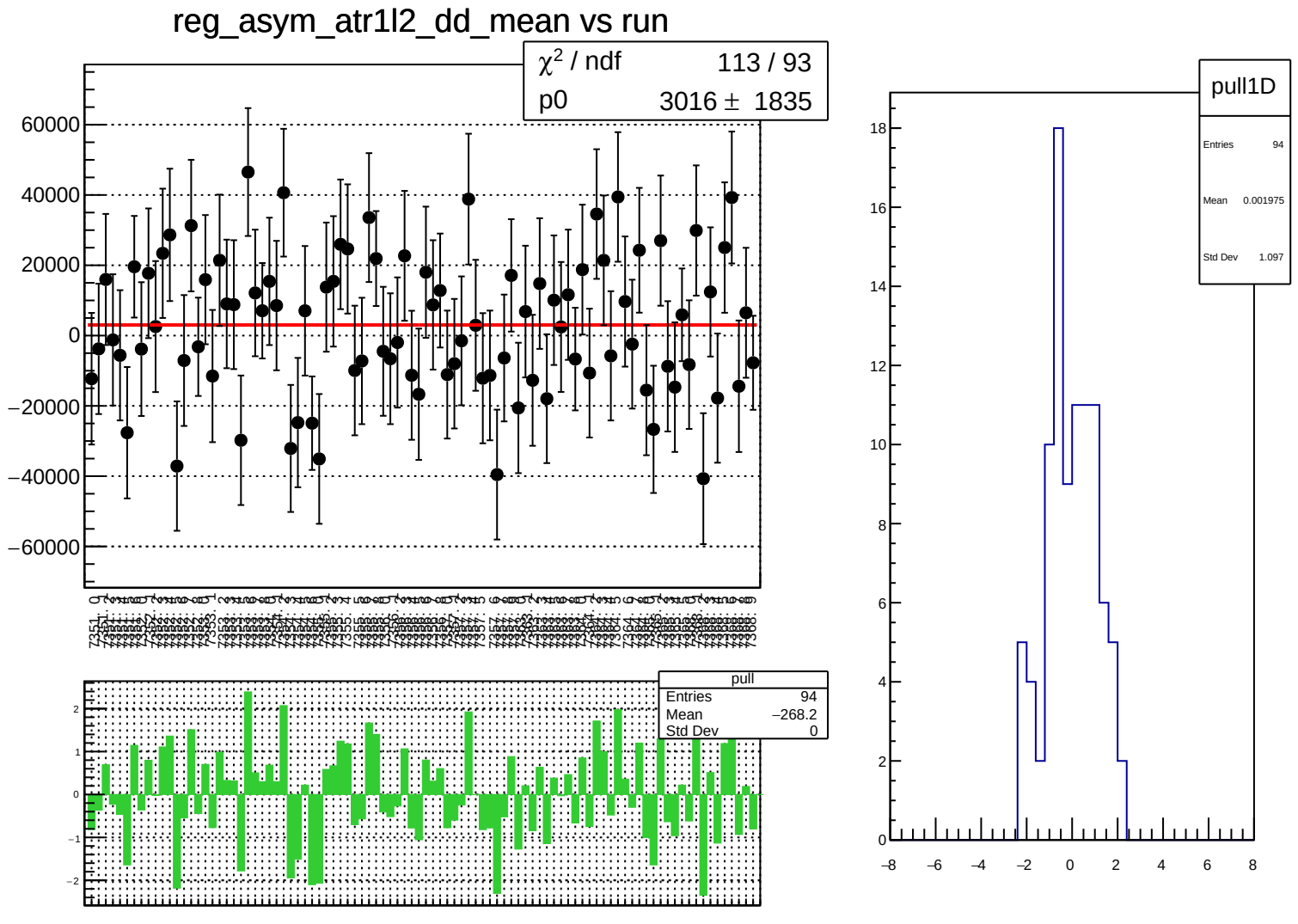

asym_atr1l2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.71e+04 / 93
p0 863.3 ± 0.6467
1400
1300
1200
1100
1000
900
800
700
600

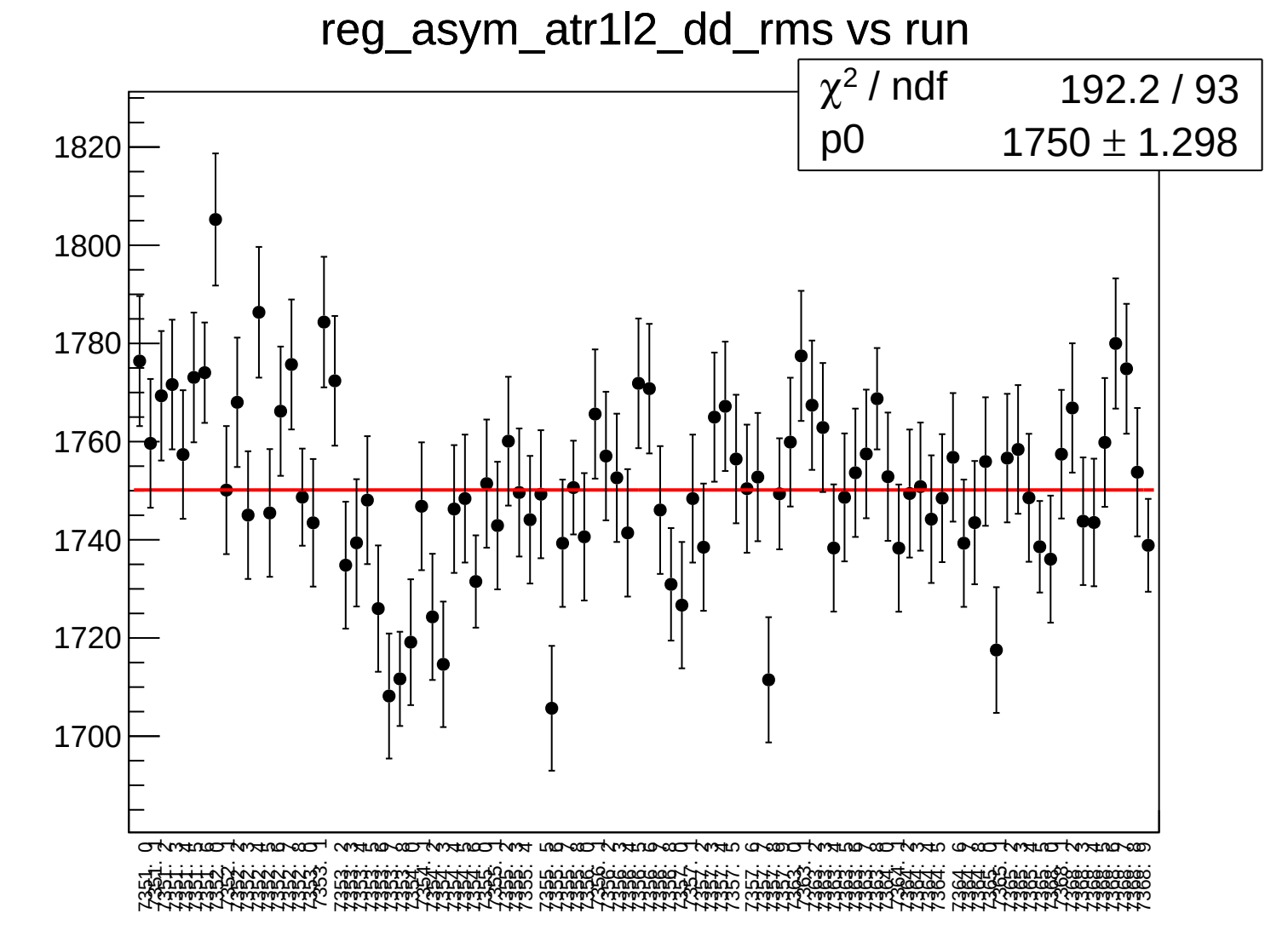

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.65 / 93
p0 1.063 ± 0.9146
pull
Entries 94
Mean 37.3
Std Dev 0
pull1D
Entries 94
Mean 0.005317
Std Dev 0.8483

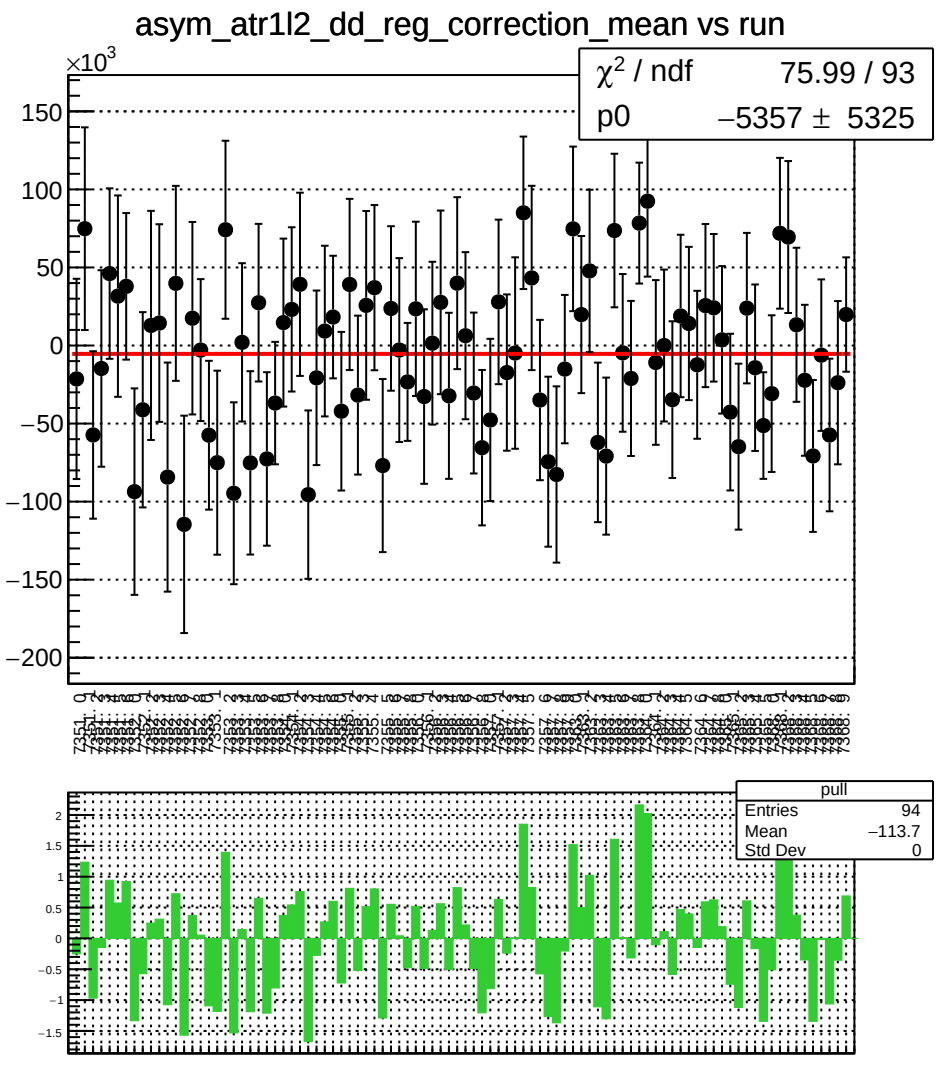

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.71e+04 / 93
p0 863.3 ± 0.6467
1400
1300
1200
1100
1000
900
800
700
600

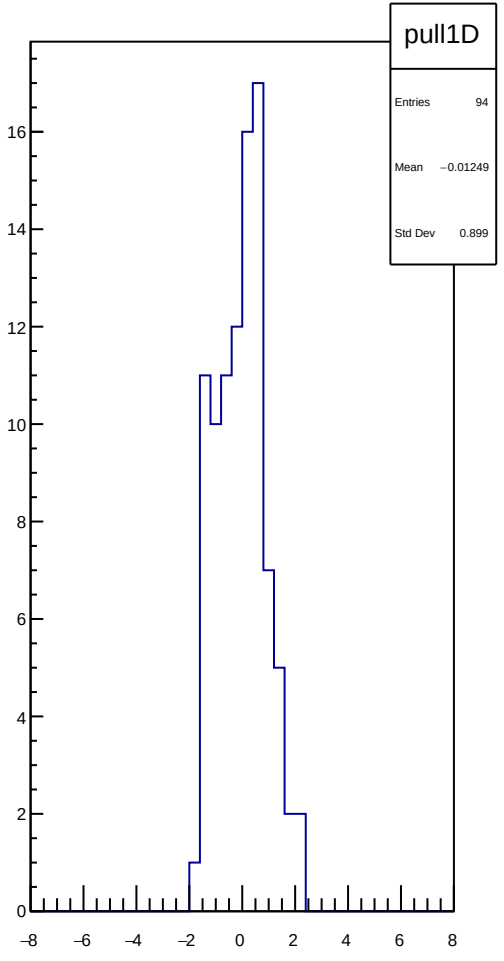

asym_atr1l2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 128.2 / 93
p0 5.916e−14 ± 6.888e−14
pull
Entries 94
Mean 42.42
Std Dev 10.59
pull1D
Entries 94
Mean −0.08504
Std Dev 1.165

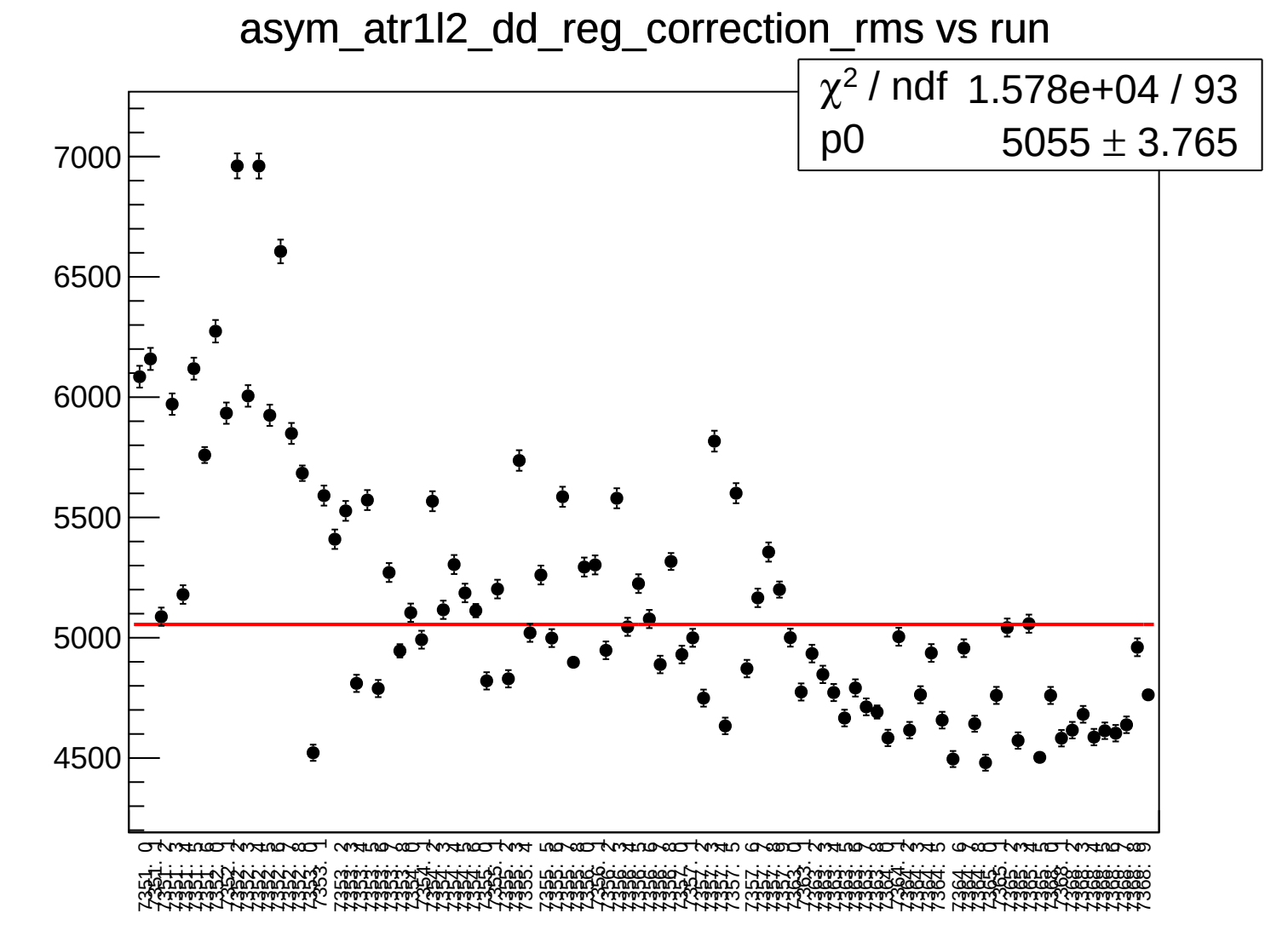

asym_atr1l2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.634e+05 / 93
p0 5.457e−11 ± 4.871e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

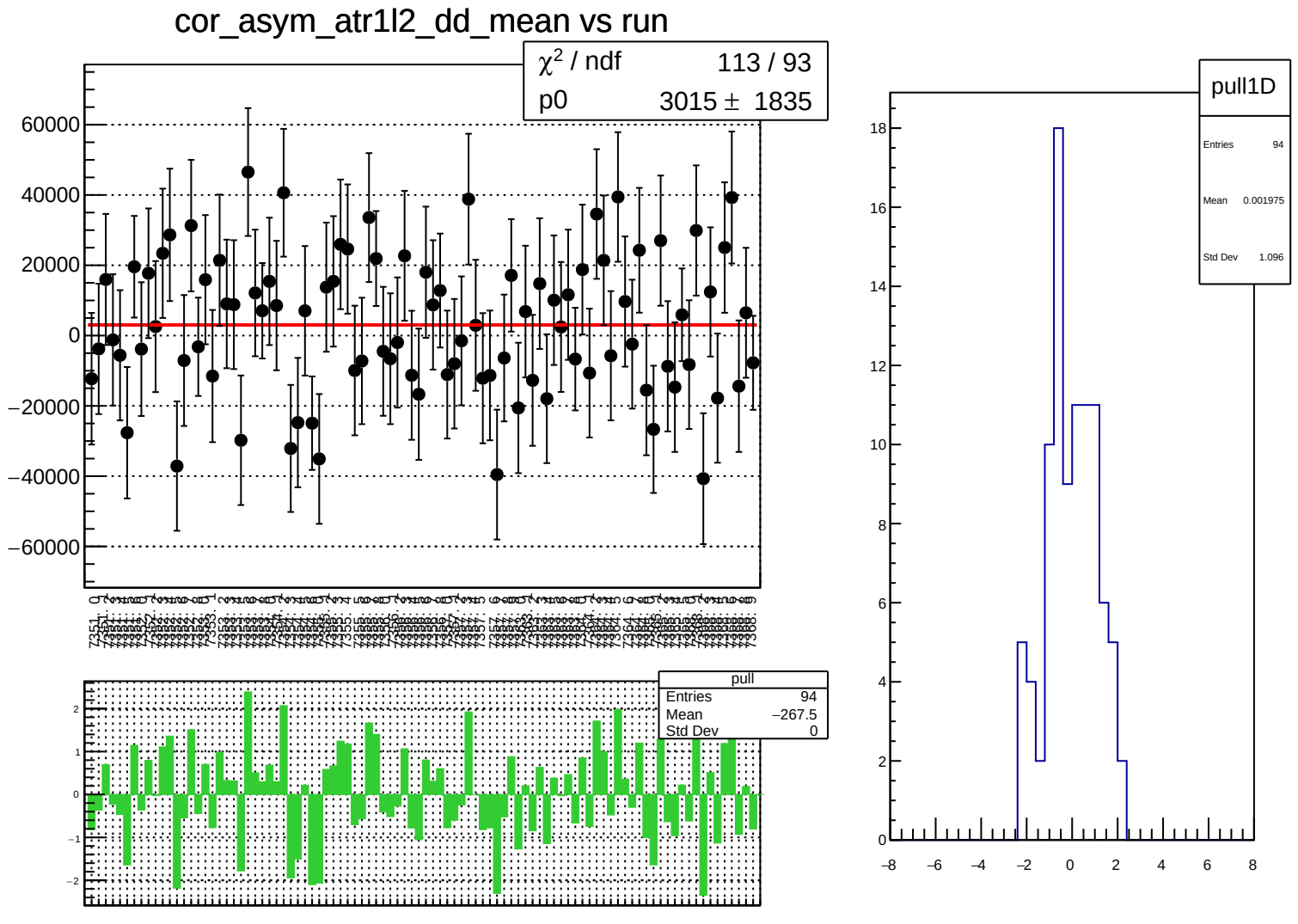

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 113 / 93
p0 3016 ± 1835
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −268.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.001975
Std Dev 1.097
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

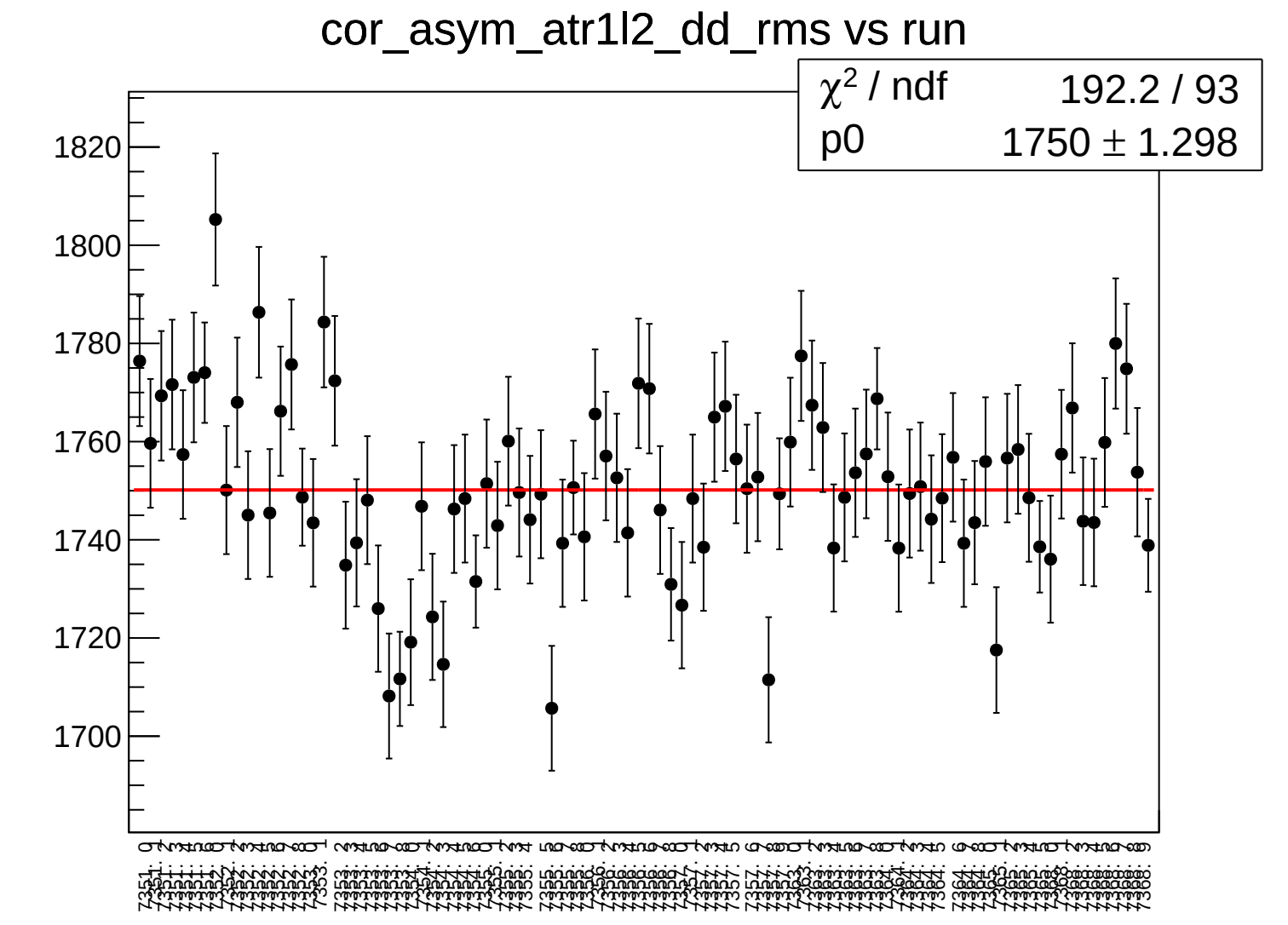

reg_asym_atr1l2_dd_rms vs run
χ^2 / ndf 192.2 / 93
p0 1750 ± 1.298
1820
1800
1780
1760
1740
1720
1700

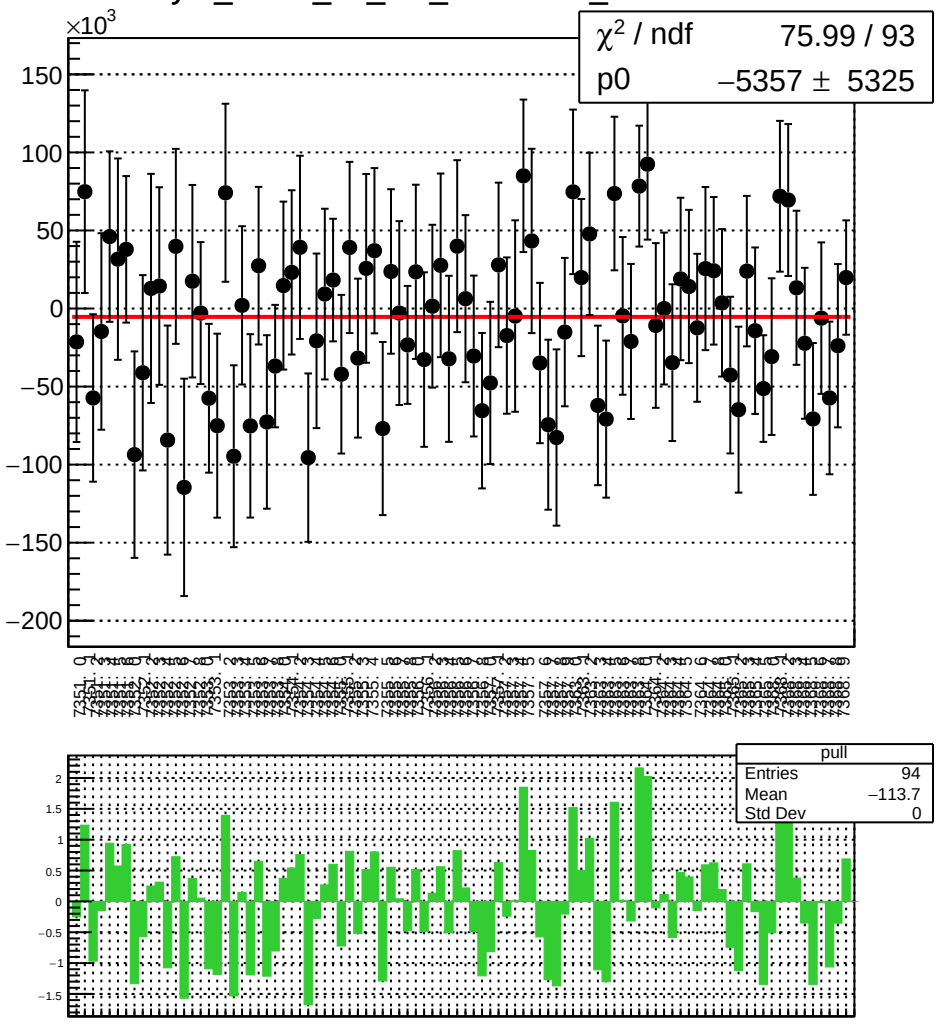

asym_atr1l2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 75.99 / 93
p0 −5357 ± 5325
150
100
50
0
−50
−100
−150
−200
pull
Entries 94
Mean −113.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

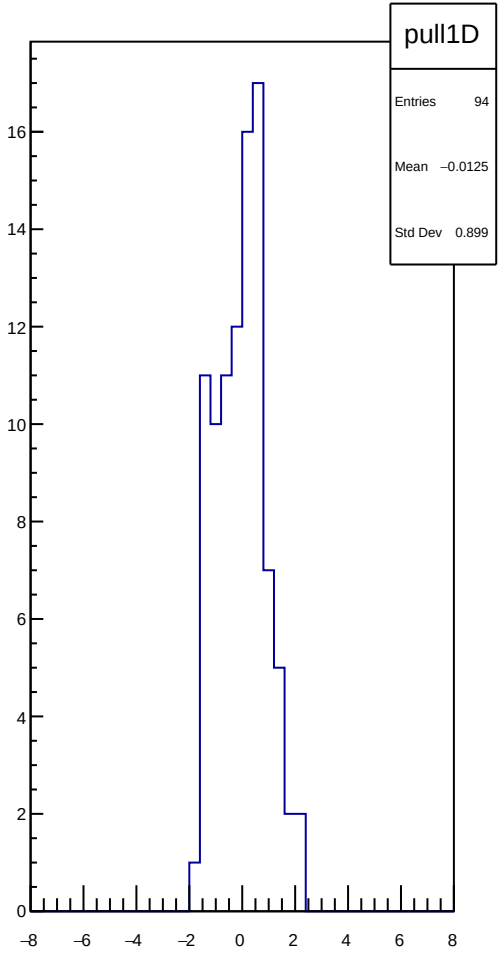

pull1D
Entries 94
Mean −0.01249
Std Dev 0.899
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

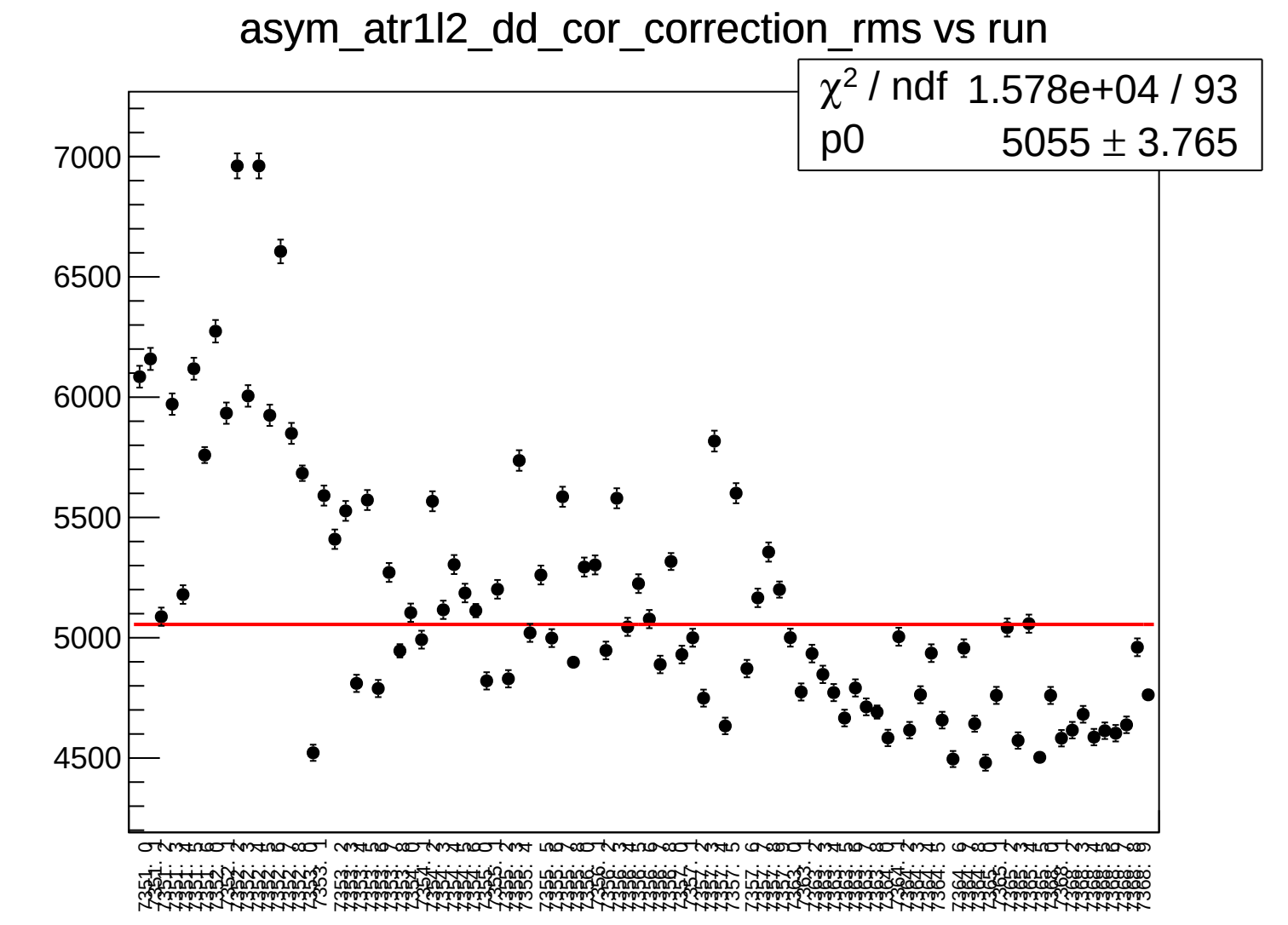

asym_atr1l2_dd_reg_correction_rms vs run
χ² / ndf 1.578e+04 / 93
p0 5055 ± 3.765
7000
6500
6000
5500
5000
4500

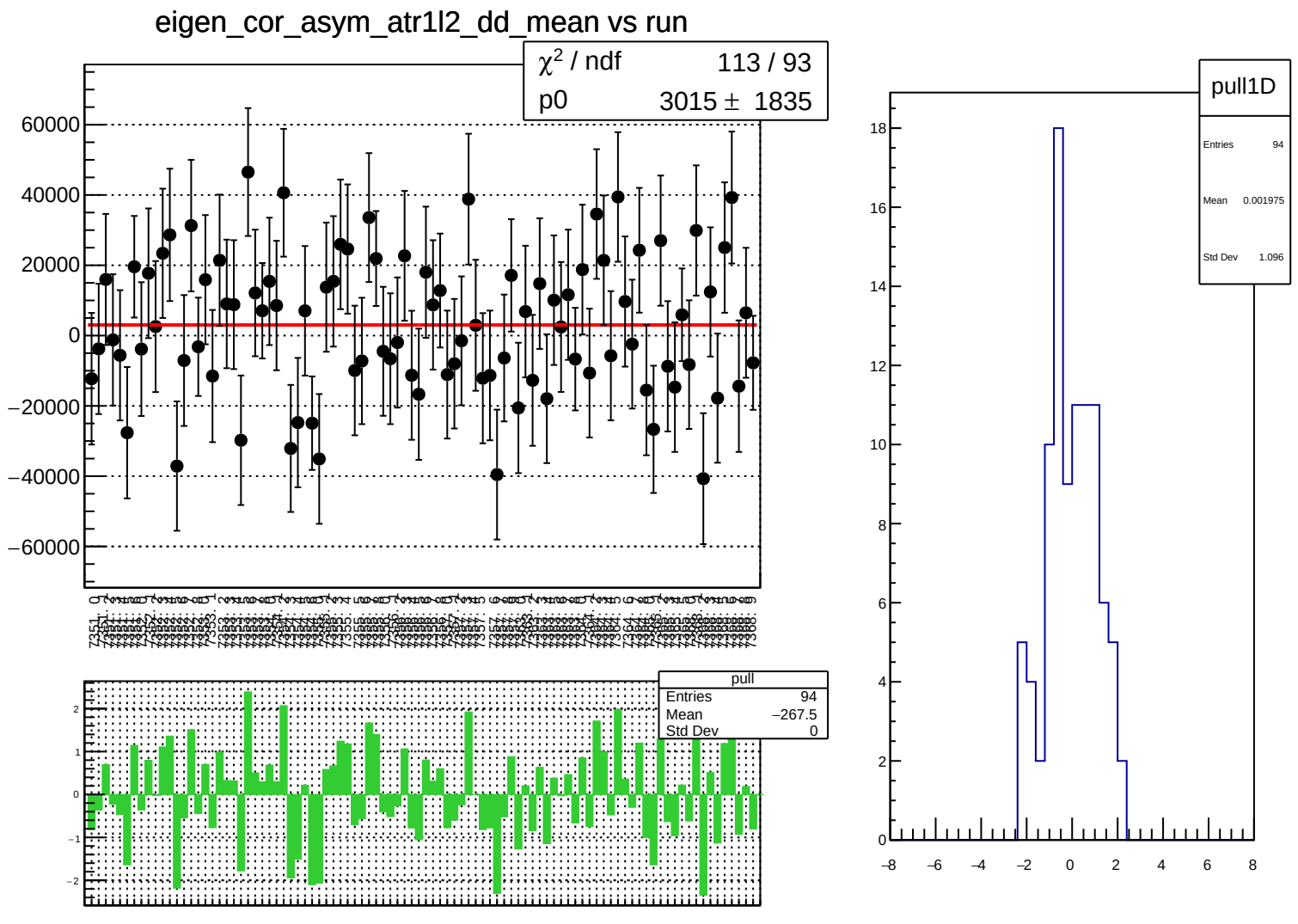

cor_asym_atr1l2_dd_mean vs run
χ² / ndf 113 / 93
p0 3015 ± 1835
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −267.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.001975
Std Dev 1.096
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

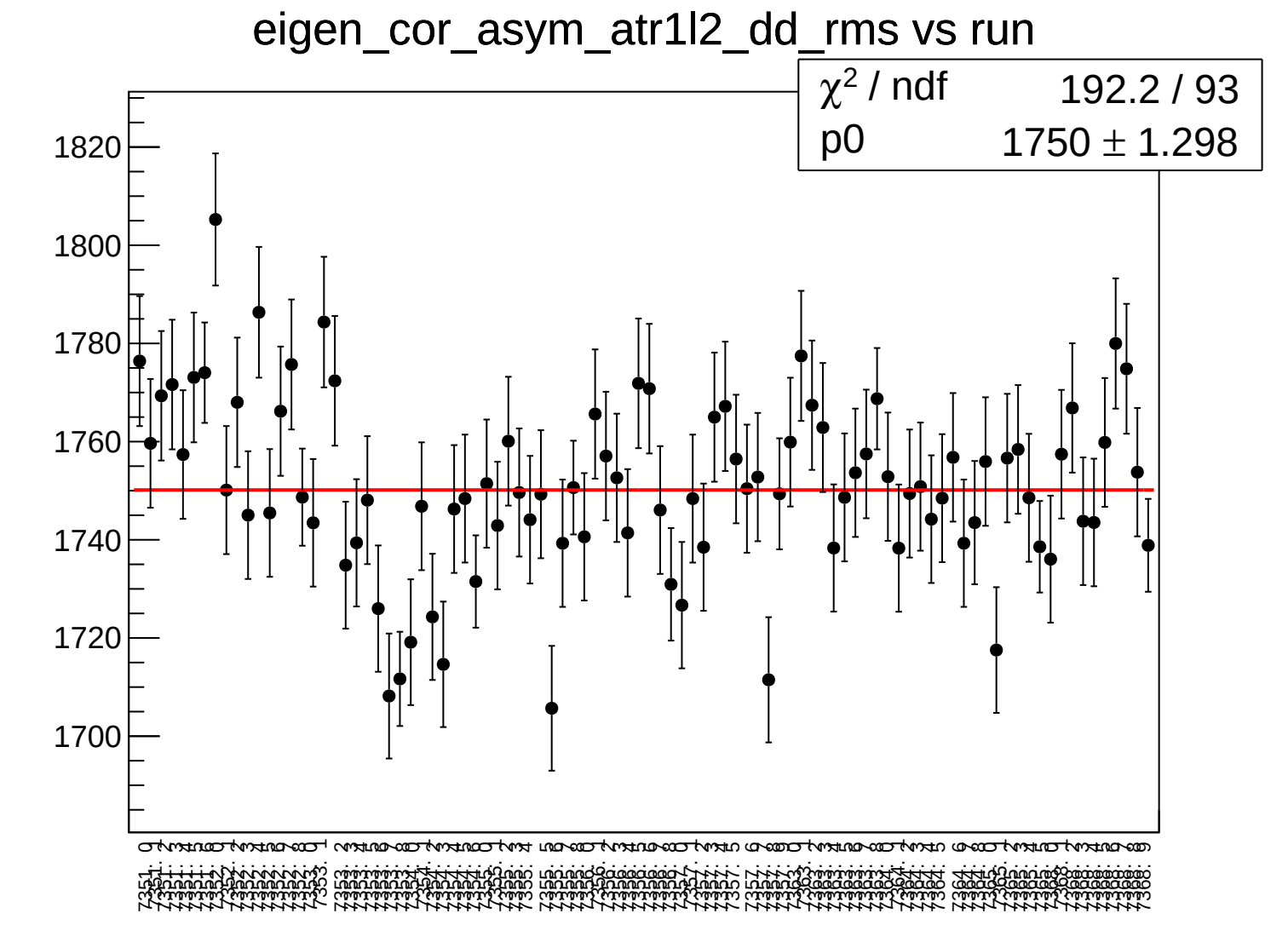

cor_asym_atr1l2_dd_rms vs run
χ^2 / ndf 192.2 / 93
p0 1750 ± 1.298
1820
1800
1780
1760
1740
1720
1700

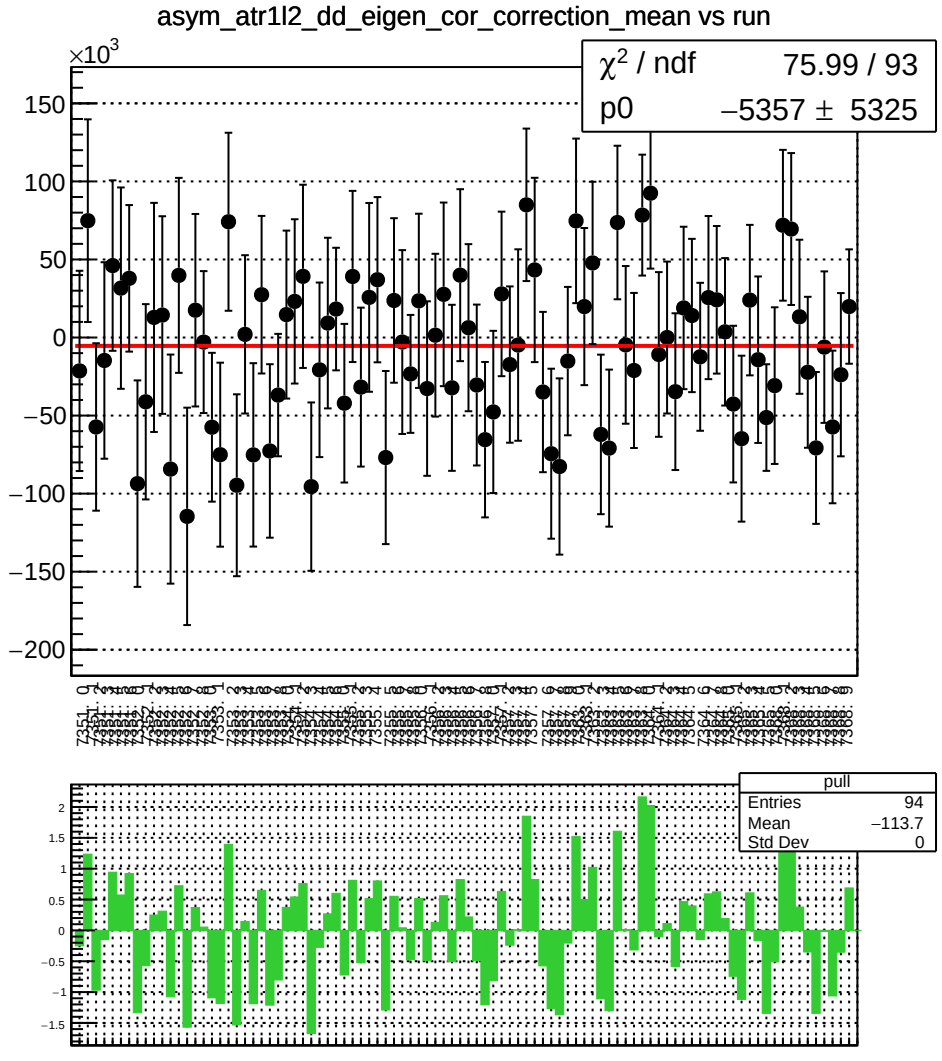

asym_atr1l2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 75.99 / 93
p0 −5357 ± 5325
150
100
50
0
−50
−100
−150
−200
pull
Entries 94
Mean −113.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

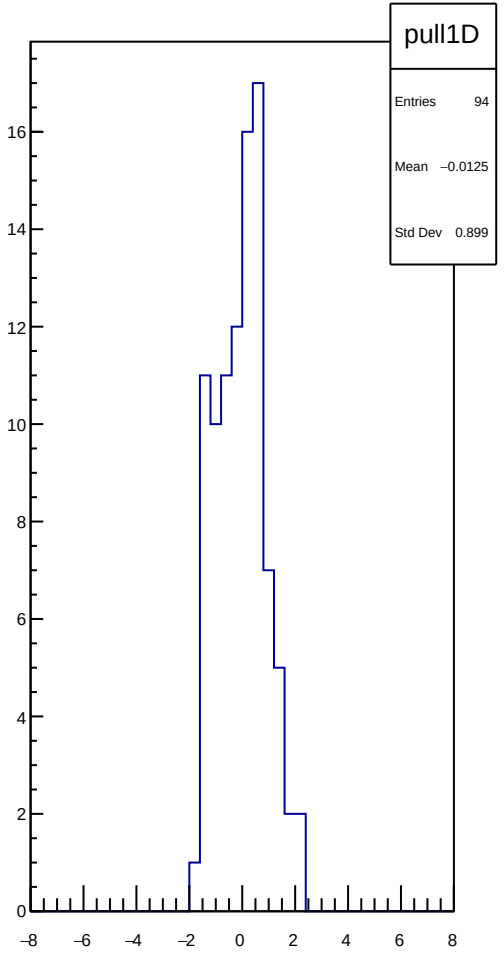

pull1D
Entries 94
Mean −0.0125
Std Dev 0.899
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

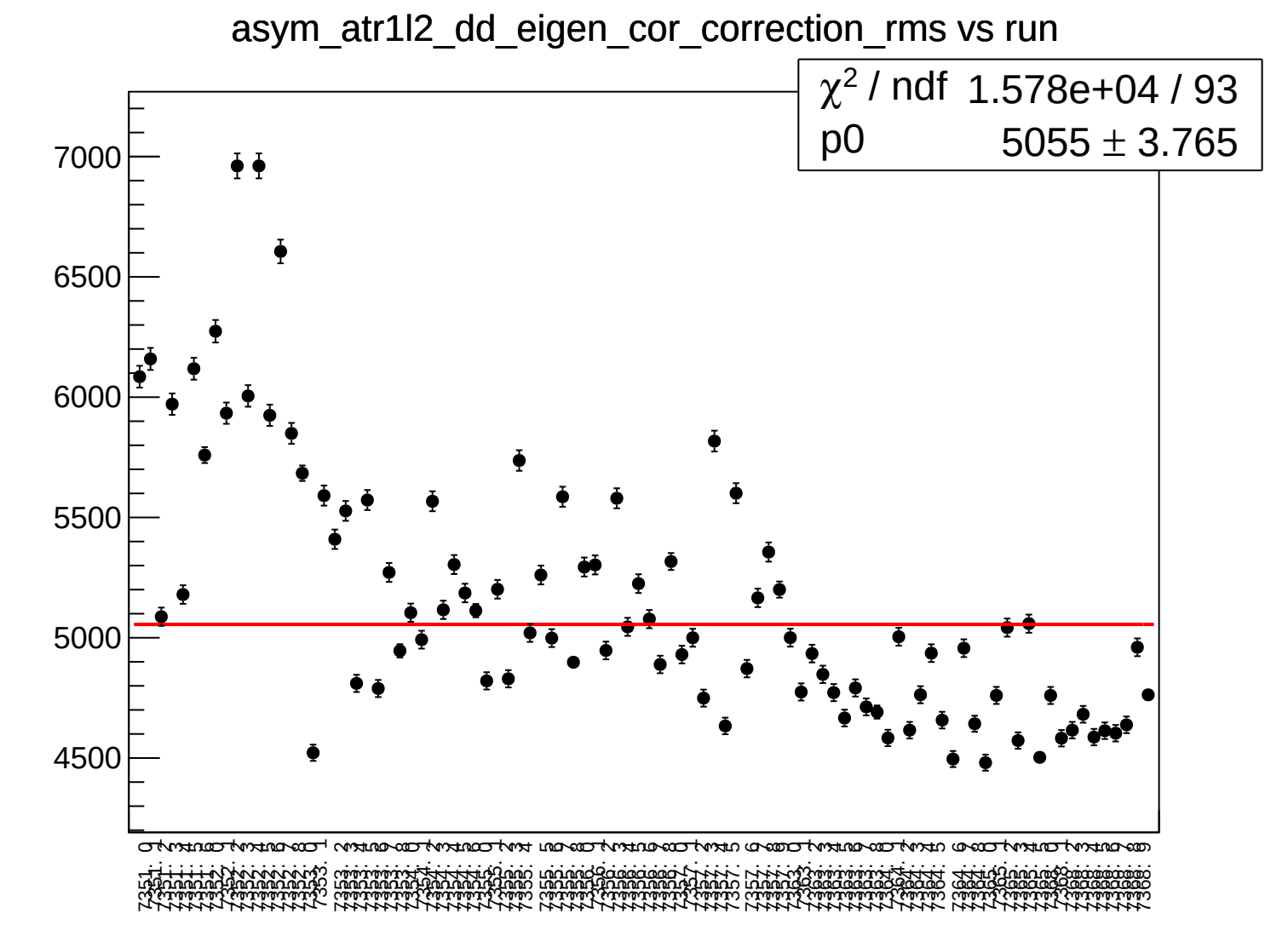

asym_atr1l2_dd_cor_correction_rms vs run
χ² / ndf 1.578e+04 / 93
p0 5055 ± 3.765
7000
6500
6000
5500
5000
4500

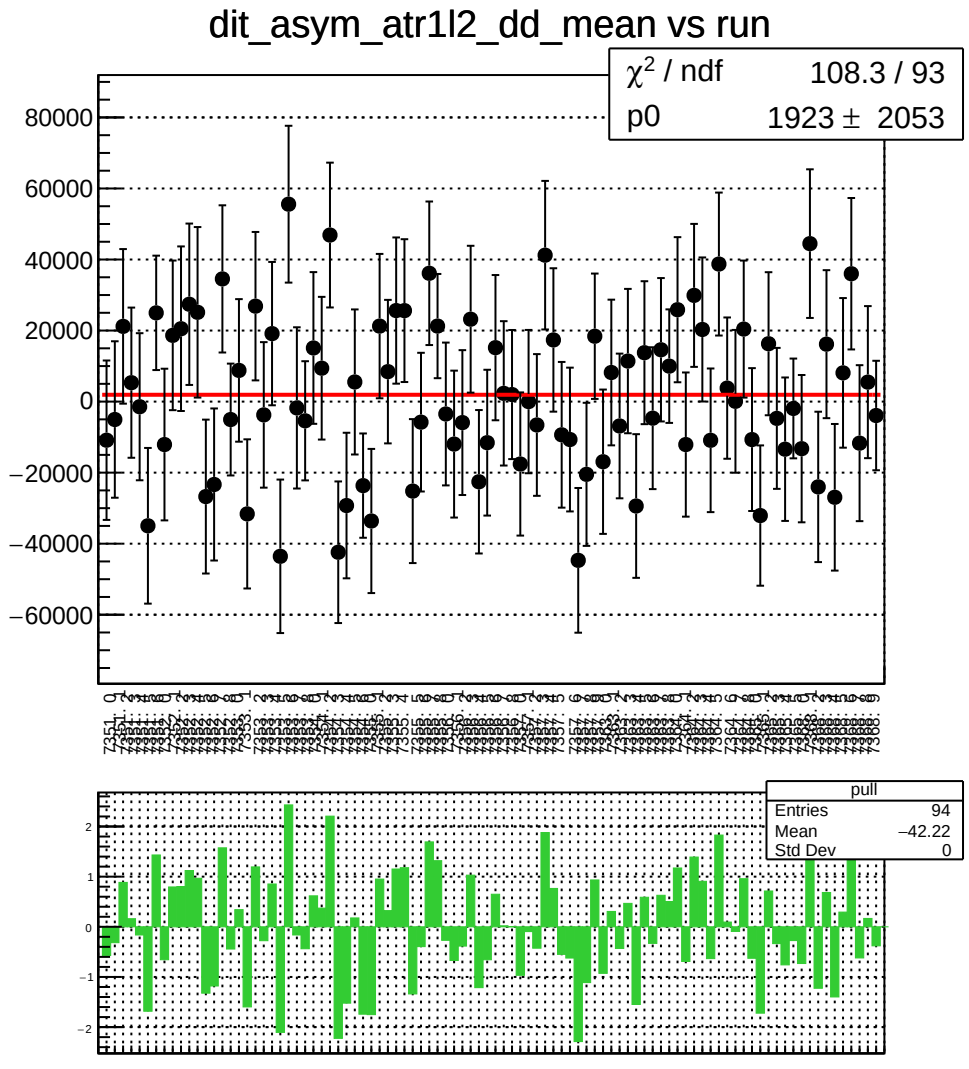

eigen_cor_asym_atr1l2_dd_mean vs run
χ² / ndf 113 / 93
p0 3015 ± 1835
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −267.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.001975
Std Dev 1.096
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

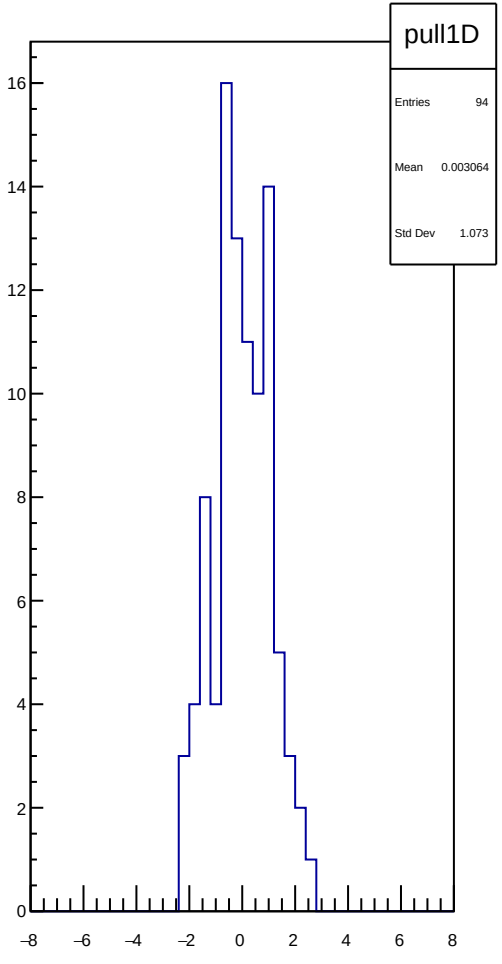

eigen_cor_asym_atr1l2_dd_rms vs run
χ^2 / ndf 192.2 / 93
p0 1750 ± 1.298
1820
1800
1780
1760
1740
1720
1700

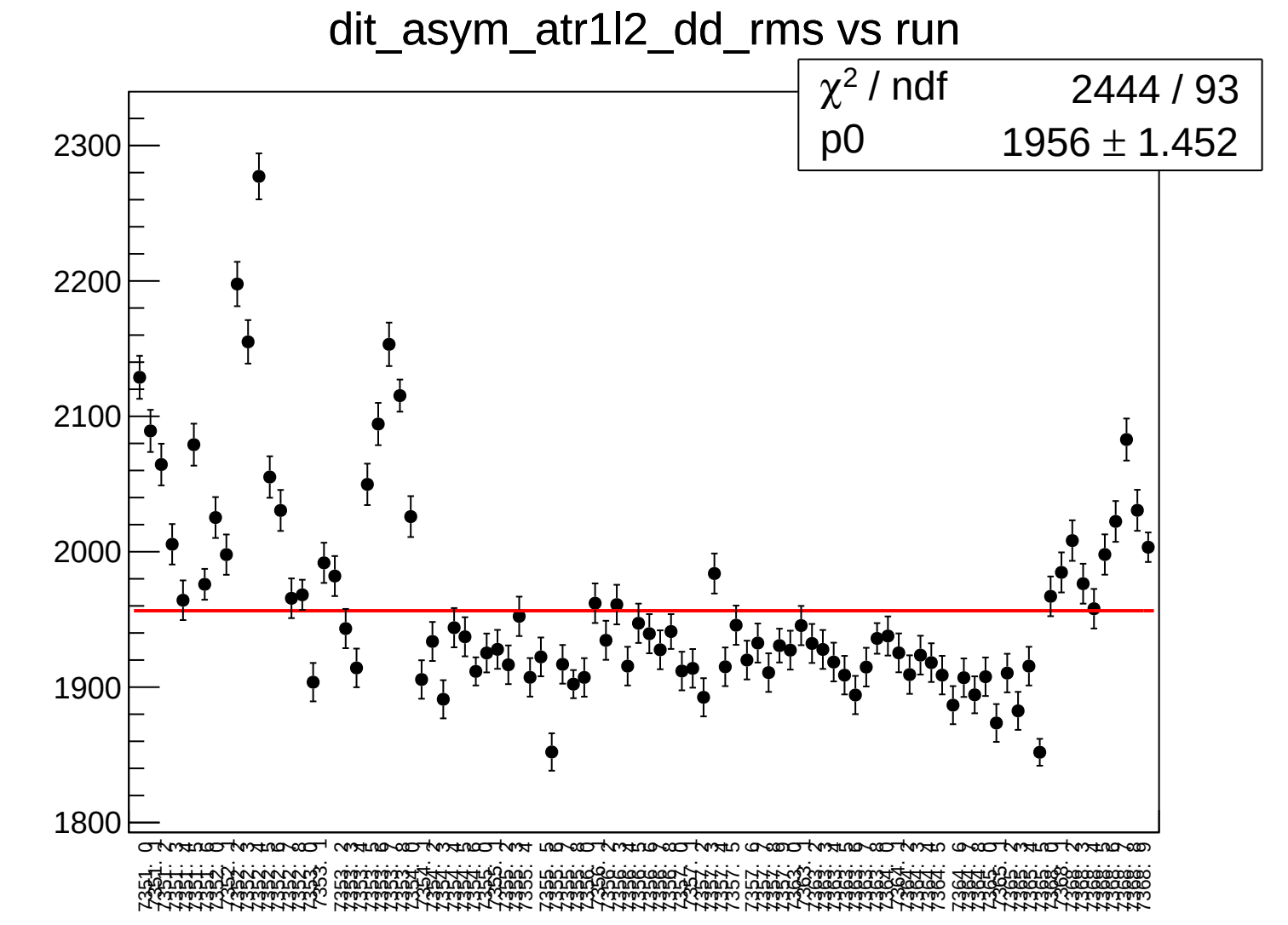

asym_atr1l2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 75.99 / 93
p0 −5357 ± 5325
150
100
50
0
−50
−100
−150
−200
pull
Entries 94
Mean −113.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

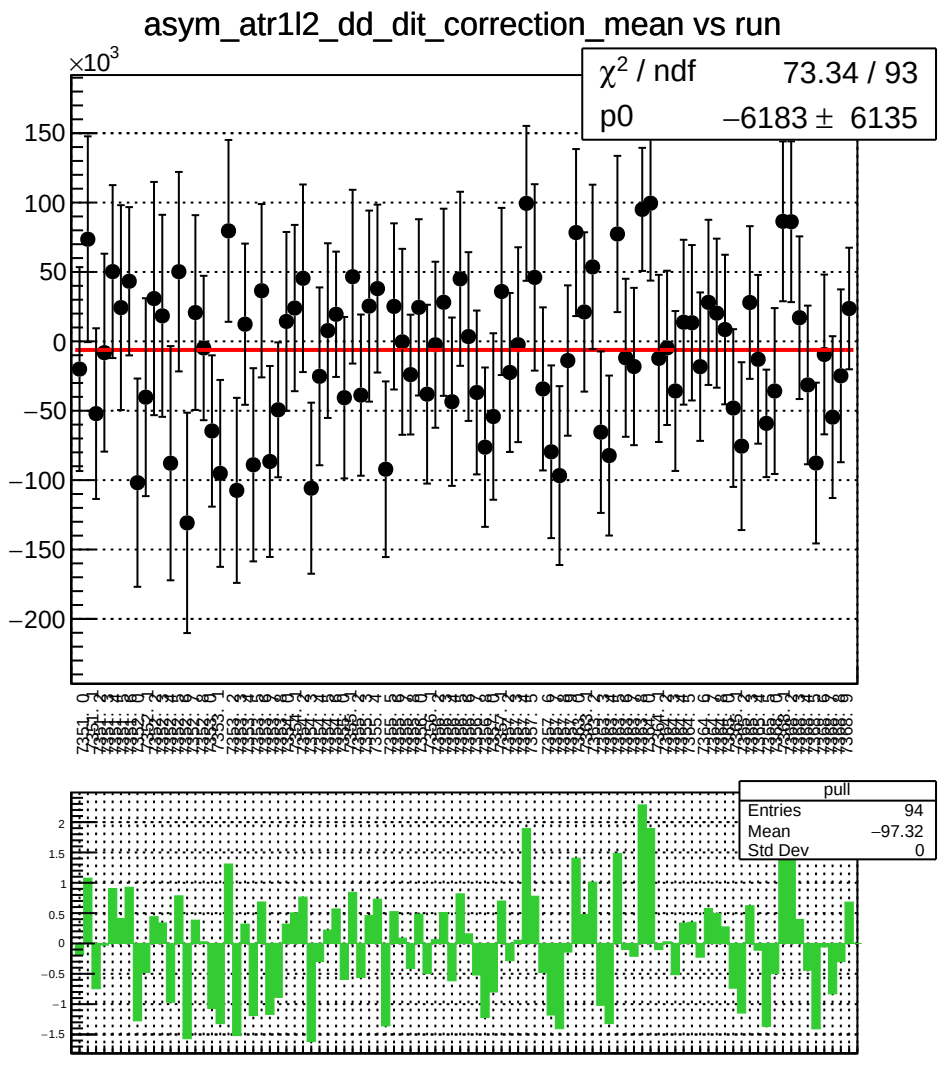

pull1D
Entries 94
Mean −0.0125
Std Dev 0.899
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

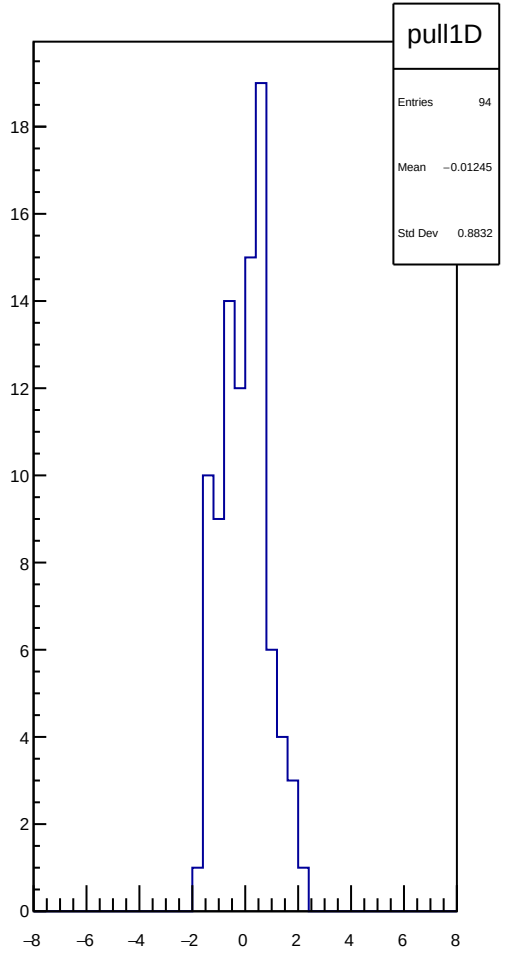

asym_atr1l2_dd_eigen_cor_correction_rms vs run
χ^2 / ndf 1.578e+04 / 93
p0 5055 ± 3.765
7000
6500
6000
5500
5000
4500

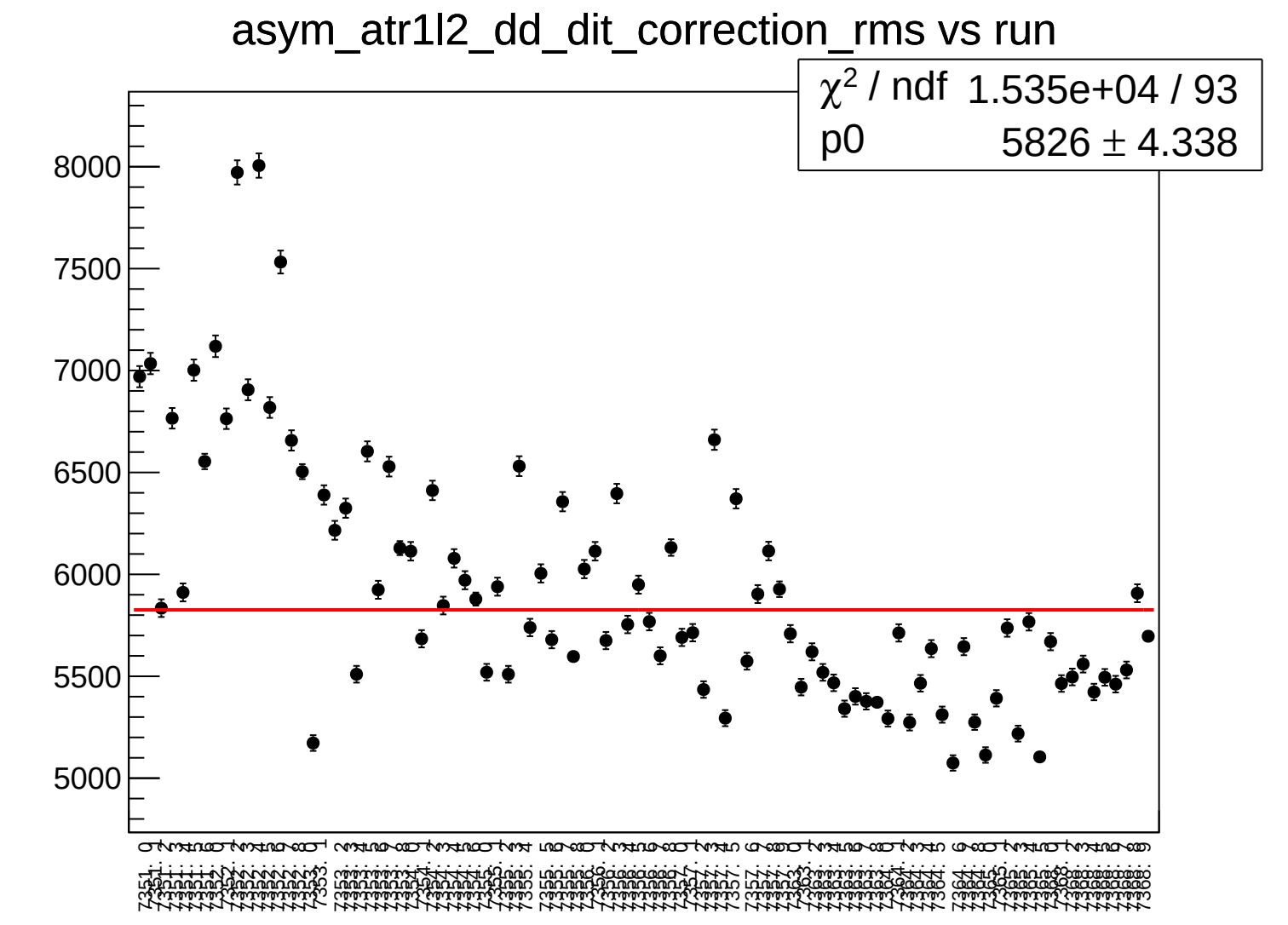

dit_asym_atr1l2_dd_mean vs run
χ² / ndf 108.3 / 93
p0 1923 ± 2053
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −42.22
Std Dev 0
2
1
0
−1
−2

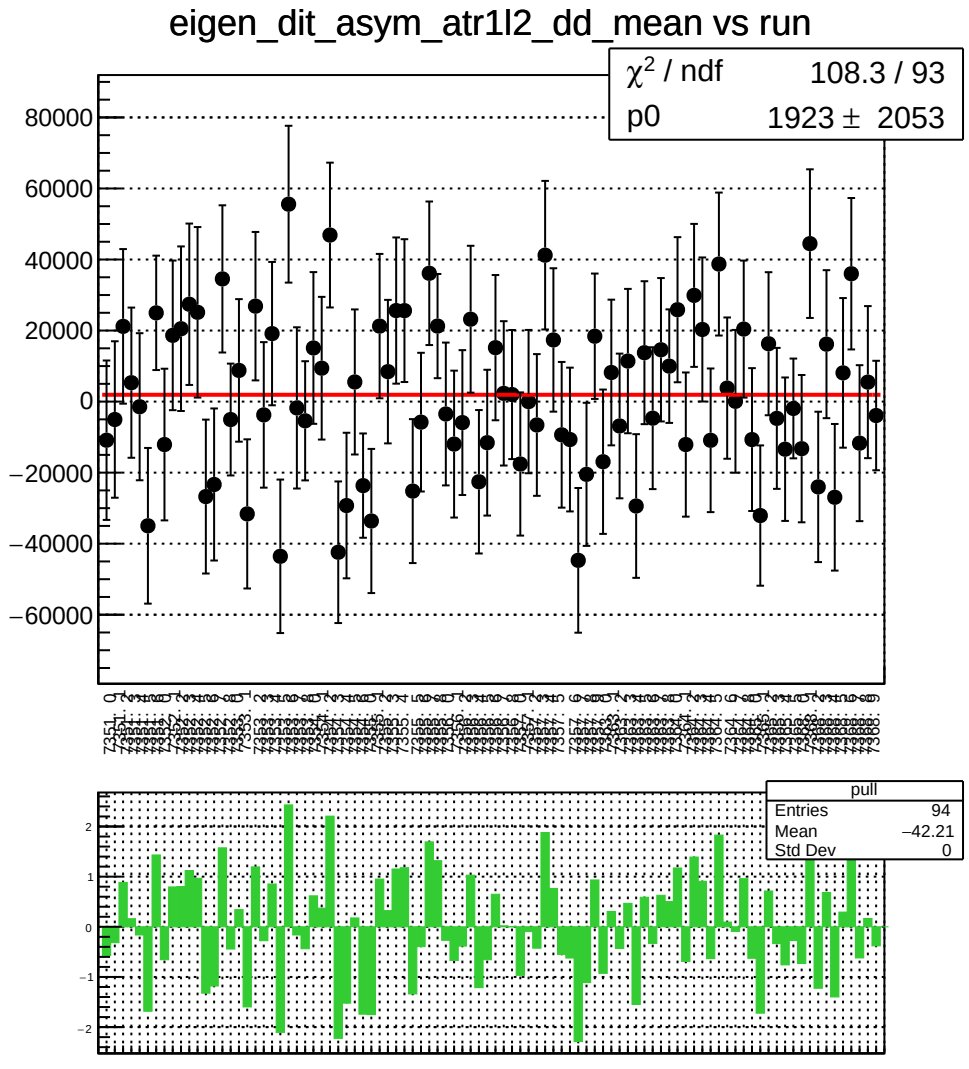

pull1D
Entries 94
Mean 0.003064
Std Dev 1.073
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

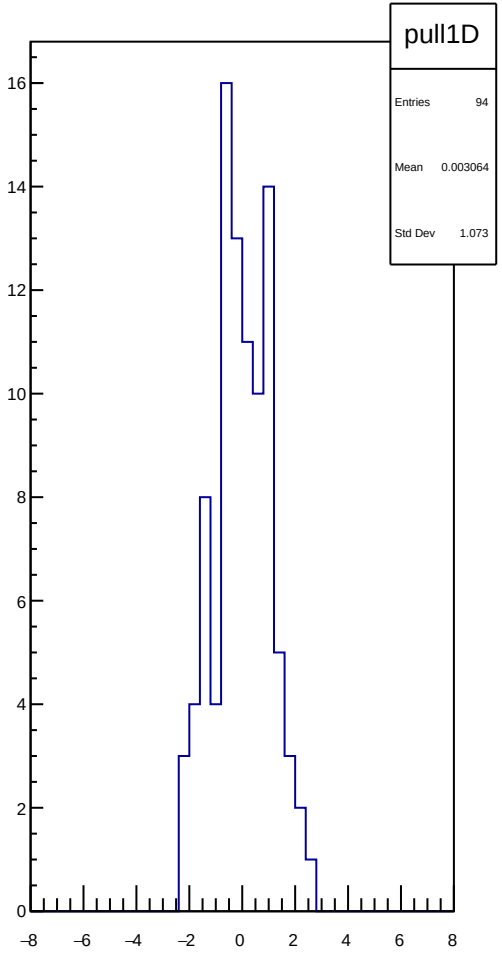

dit_asym_atr1l2_dd_rms vs run
χ² / ndf 2444 / 93
p0 1956 ± 1.452
2300
2200
2100
2000
1900
1800

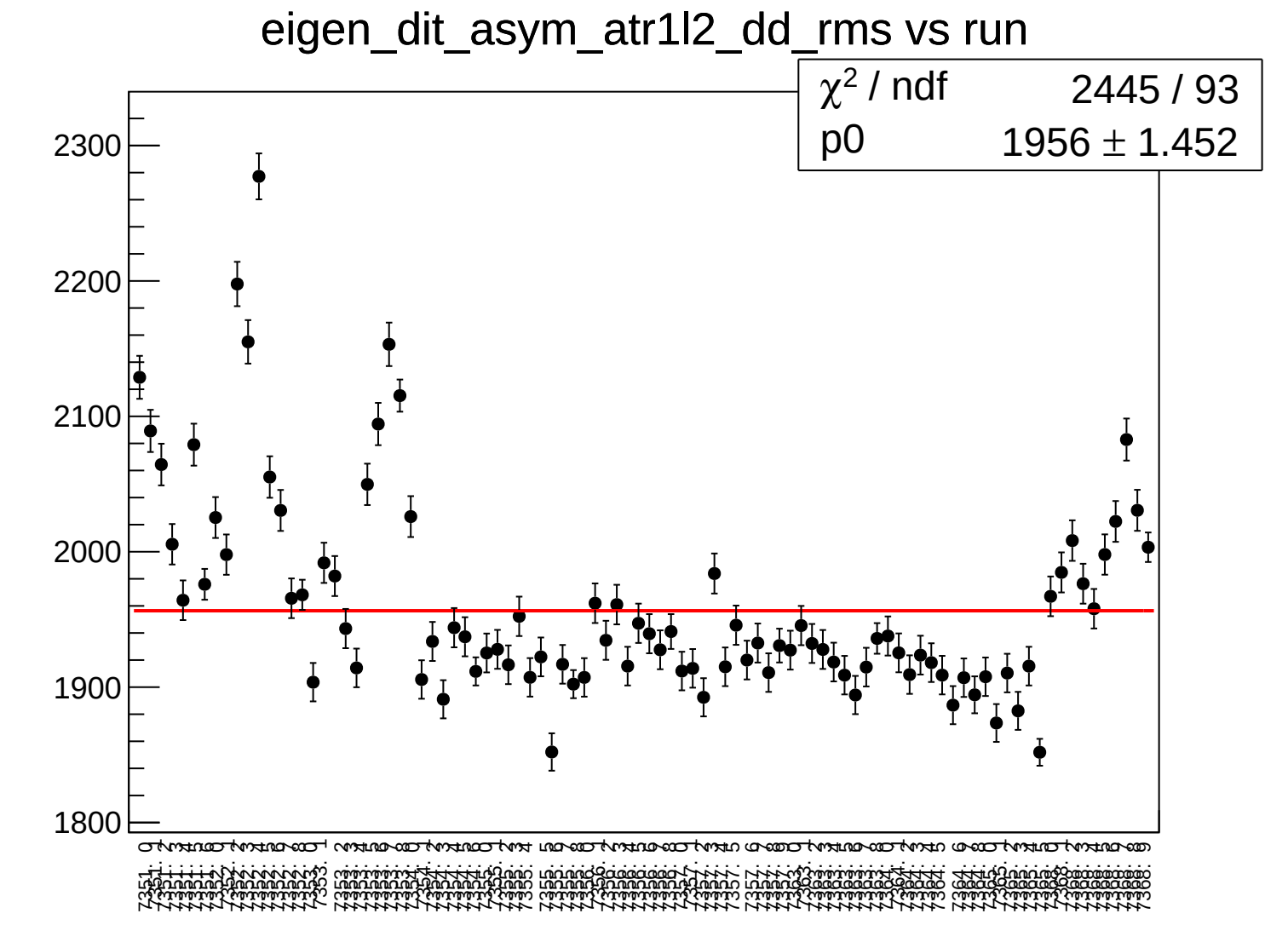

asym_atr1l2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 73.34 / 93
p0 −6183 ± 6135
150
100
50
0
−50
−100
−150
−200
pull
Entries 94
Mean −97.32
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

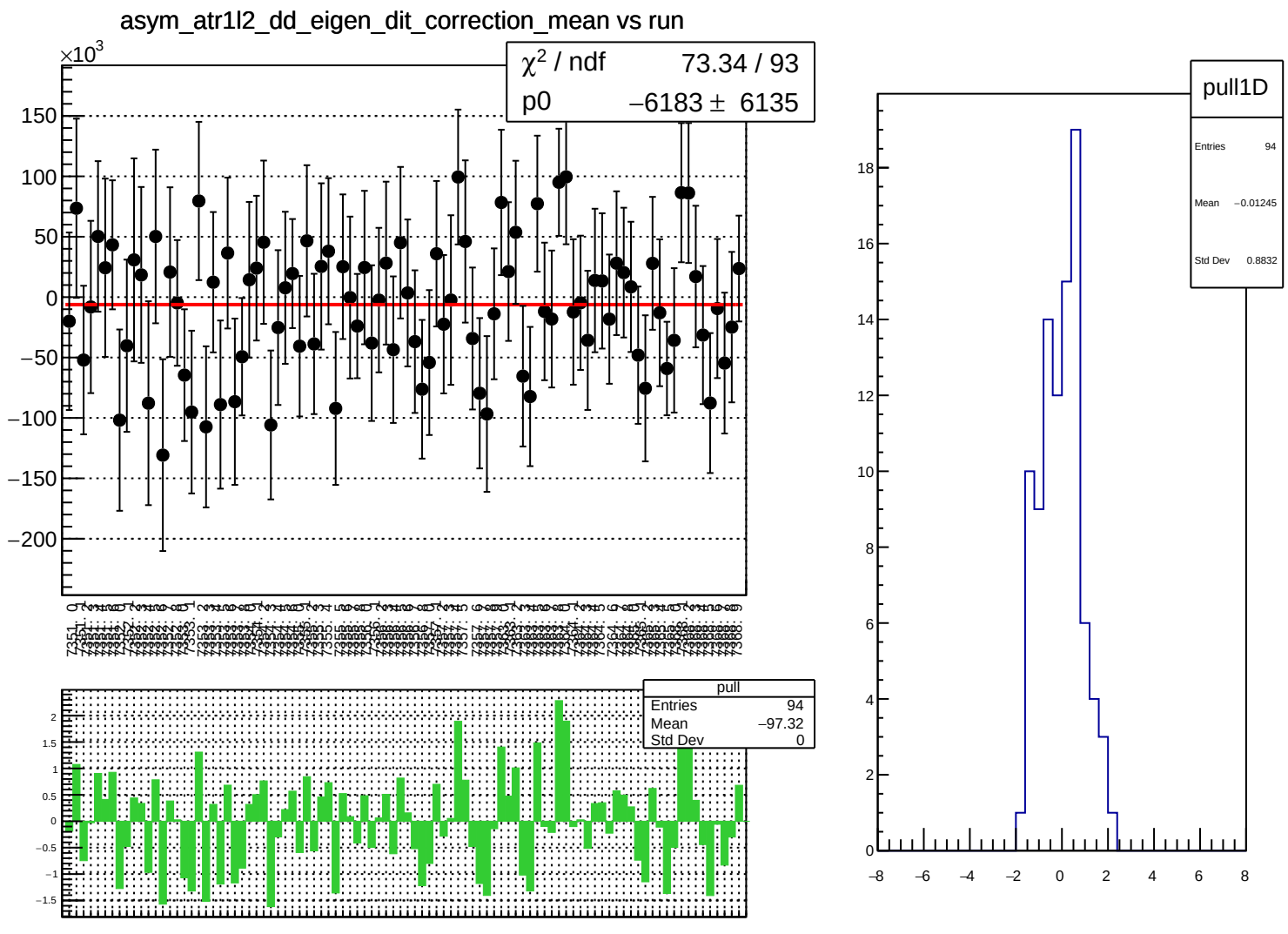

pull1D
Entries 94
Mean −0.01245
Std Dev 0.8832
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

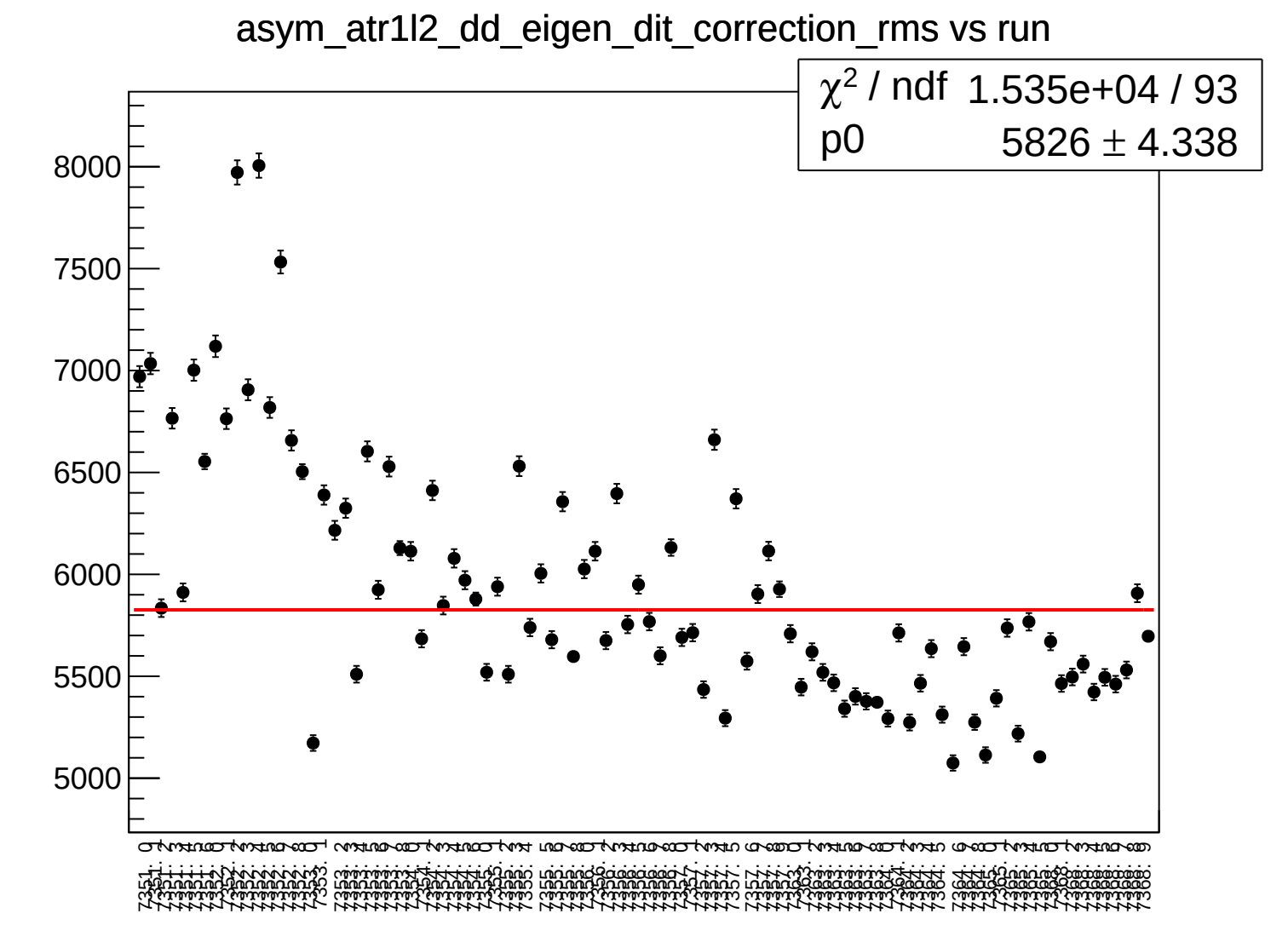

asym_atr1l2_dd_dit_correction_rms vs run
χ² / ndf 1.535e+04 / 93
p0 5826 ± 4.338
8000
7500
7000
6500
6000
5500
5000

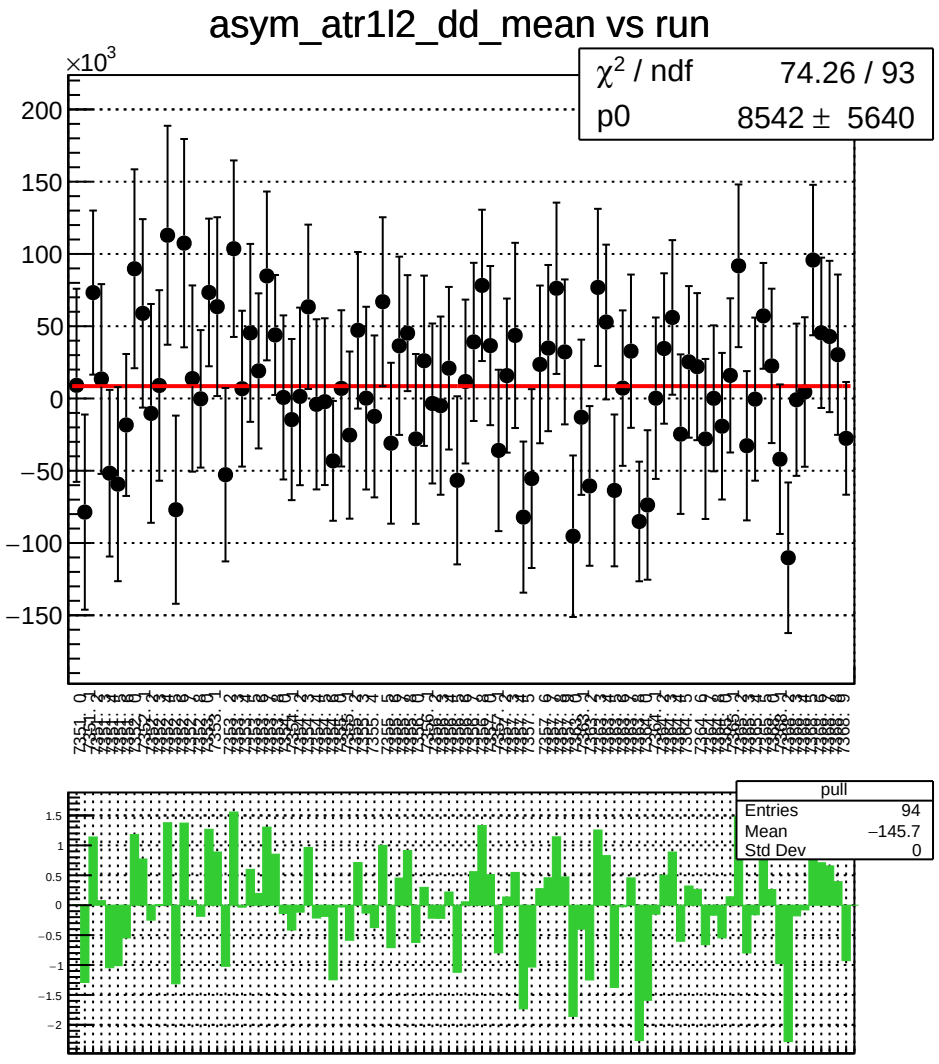

eigen_dit_asym_atr1l2_dd_mean vs run
χ² / ndf 108.3 / 93
p0 1923 ± 2053
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −42.21
Std Dev 0
2
1
0
−1
−2

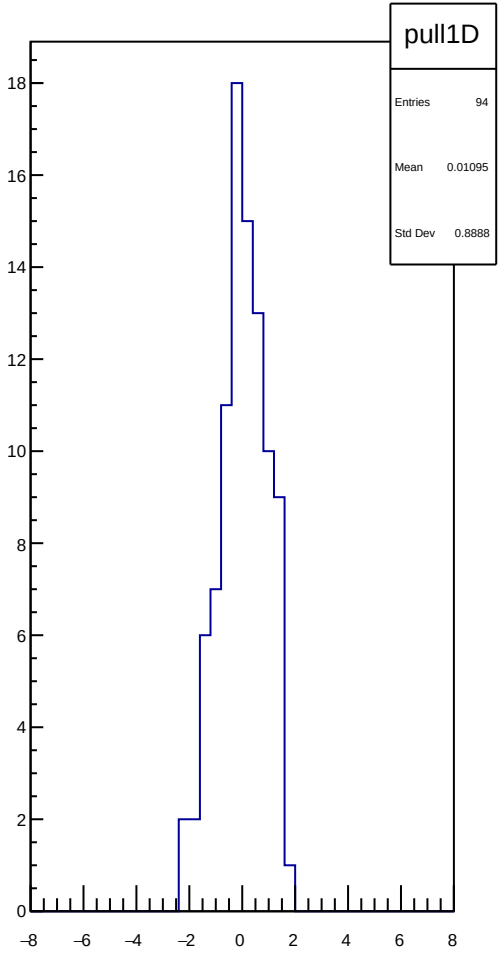

pull1D
Entries 94
Mean 0.003064
Std Dev 1.073
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

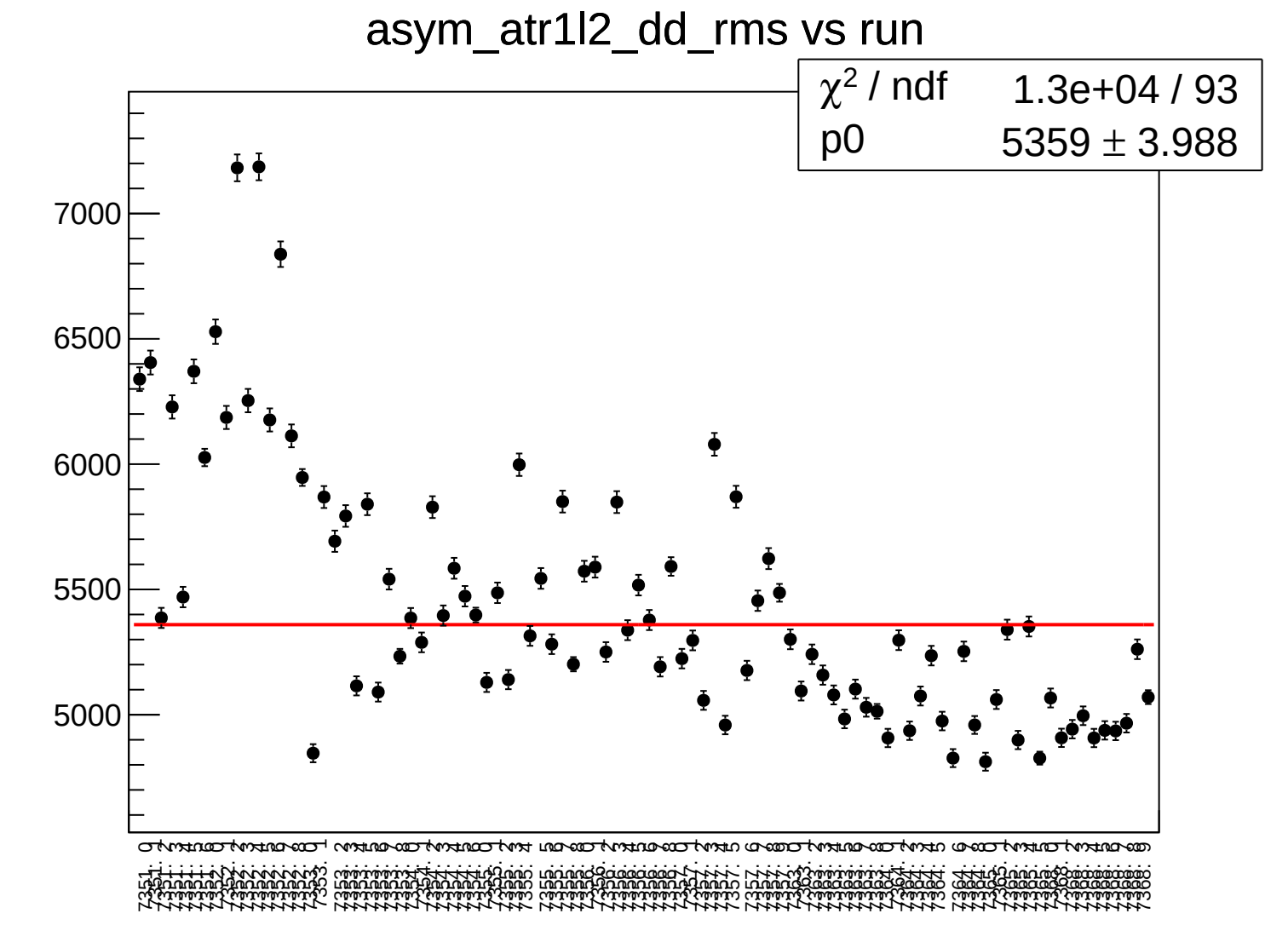

eigen_dit_asym_atr1l2_dd_rms vs run
χ² / ndf 2445 / 93
p0 1956 ± 1.452
2300
2200
2100
2000
1900
1800

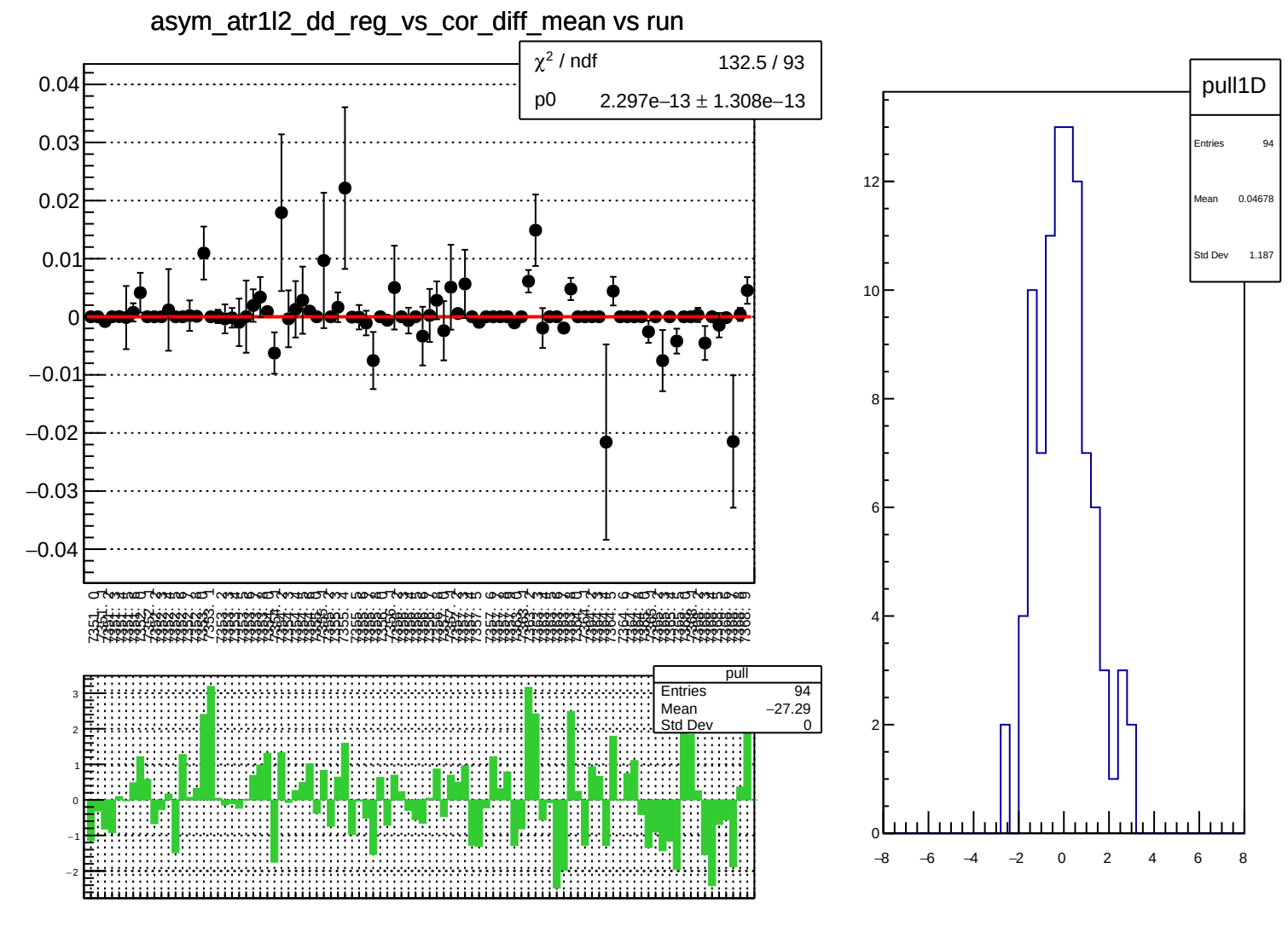

asym_atr1l2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 73.34 / 93
p0 −6183 ± 6135
150
100
50
0
−50
−100
−150
−200
pull
Entries 94
Mean −97.32
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 94
Mean −0.01245
Std Dev 0.8832
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

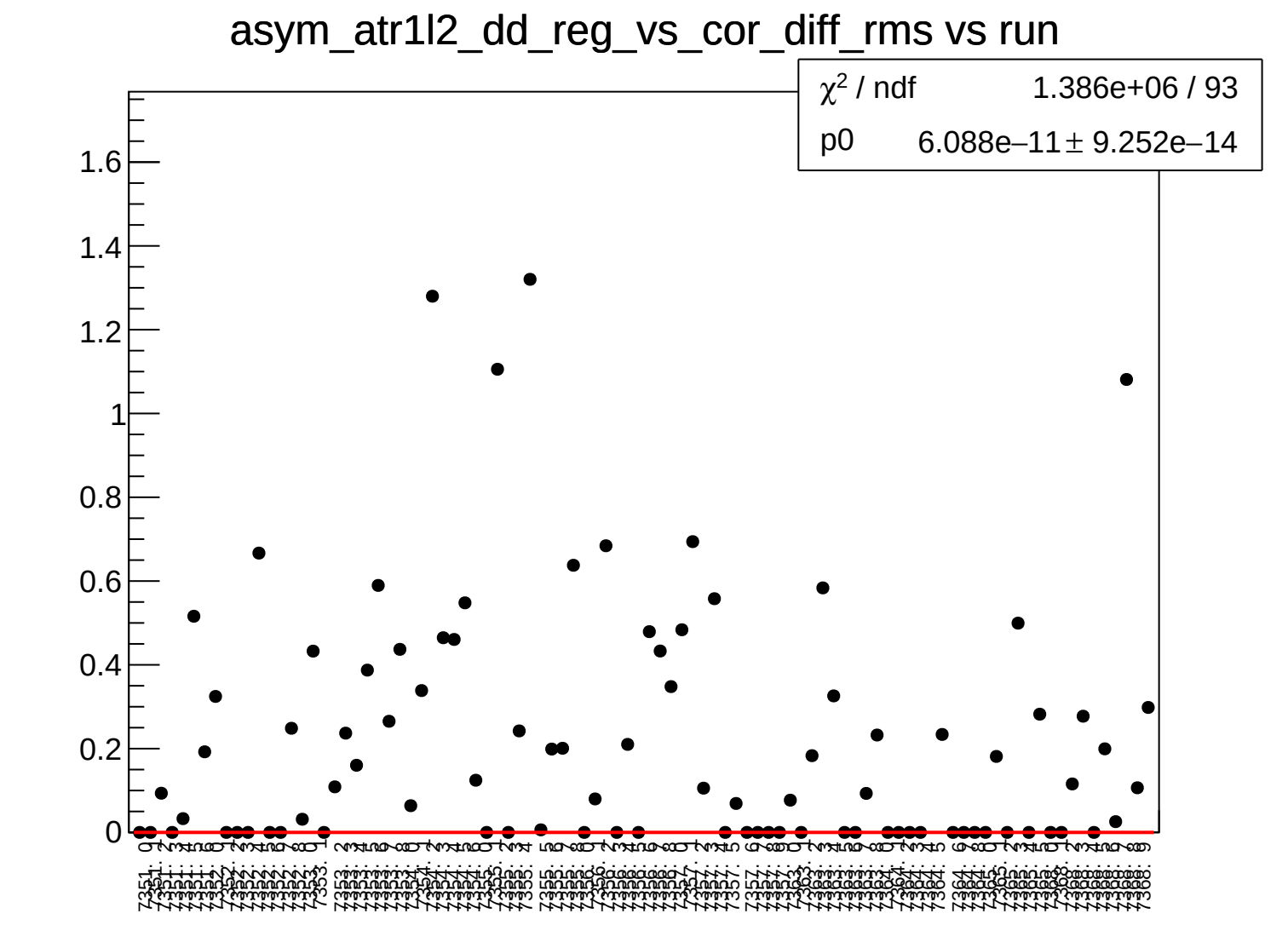

asym_atr1l2_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.535e+04 / 93
p0 5826 ± 4.338
8000
7500
7000
6500
6000
5500
5000

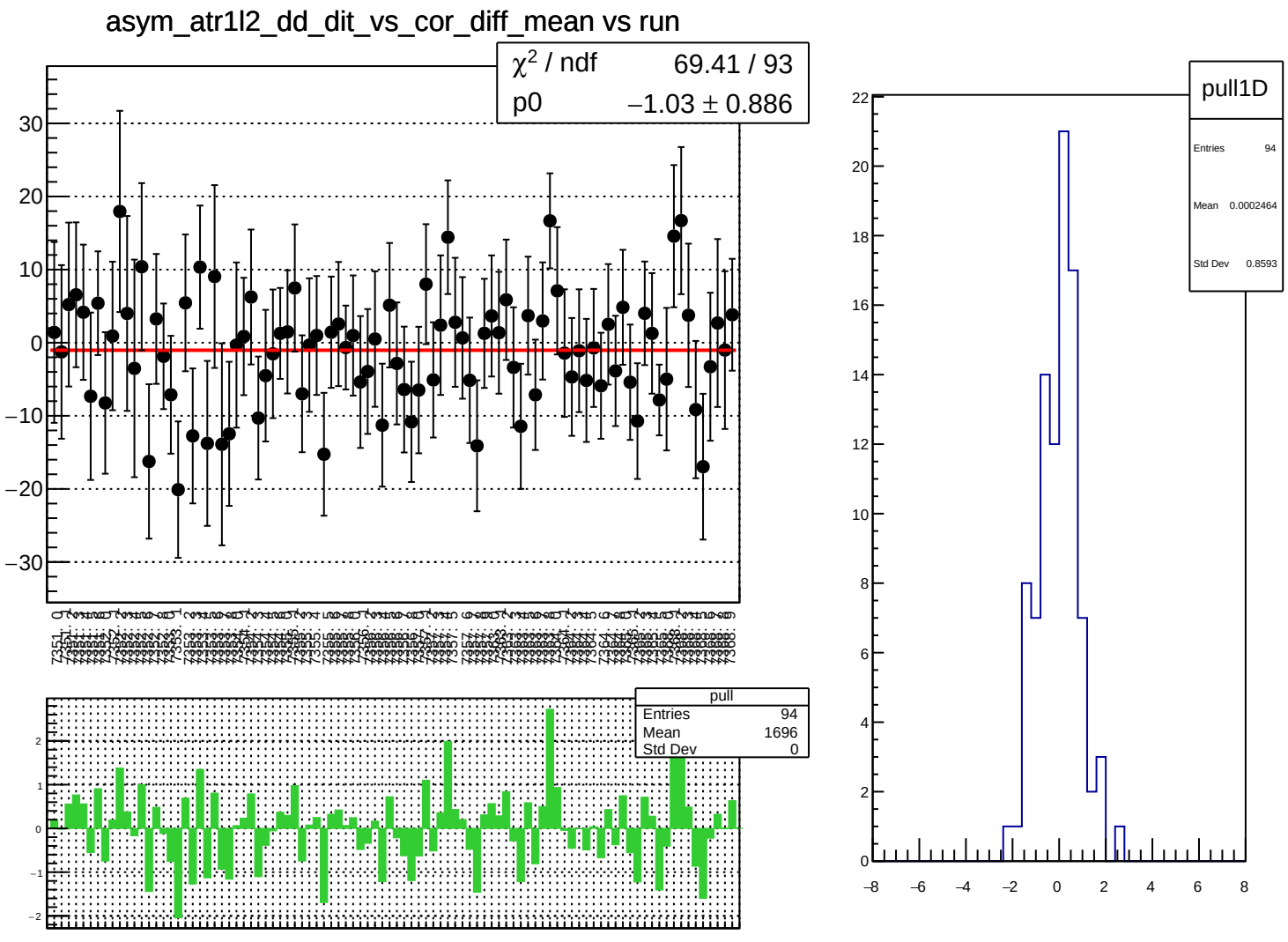

asym_atr1l2_dd_mean vs run
×10^3
χ^2 / ndf 74.26 / 93
p0 8542 ± 5640
200
150
100
50
0
−50
−100
−150
pull
Entries 94
Mean −145.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

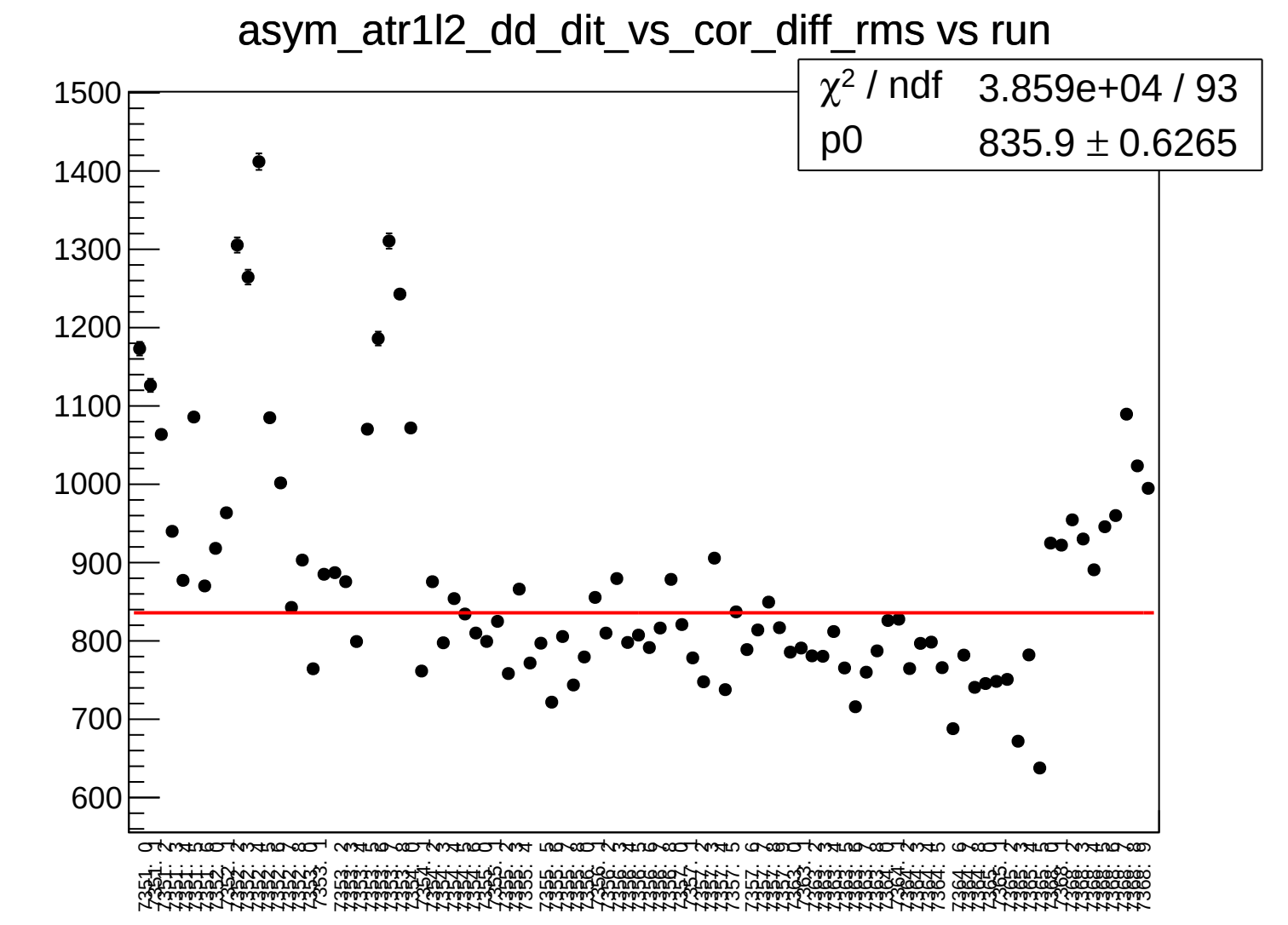

pull1D
Entries 94
Mean 0.01095
Std Dev 0.8888
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

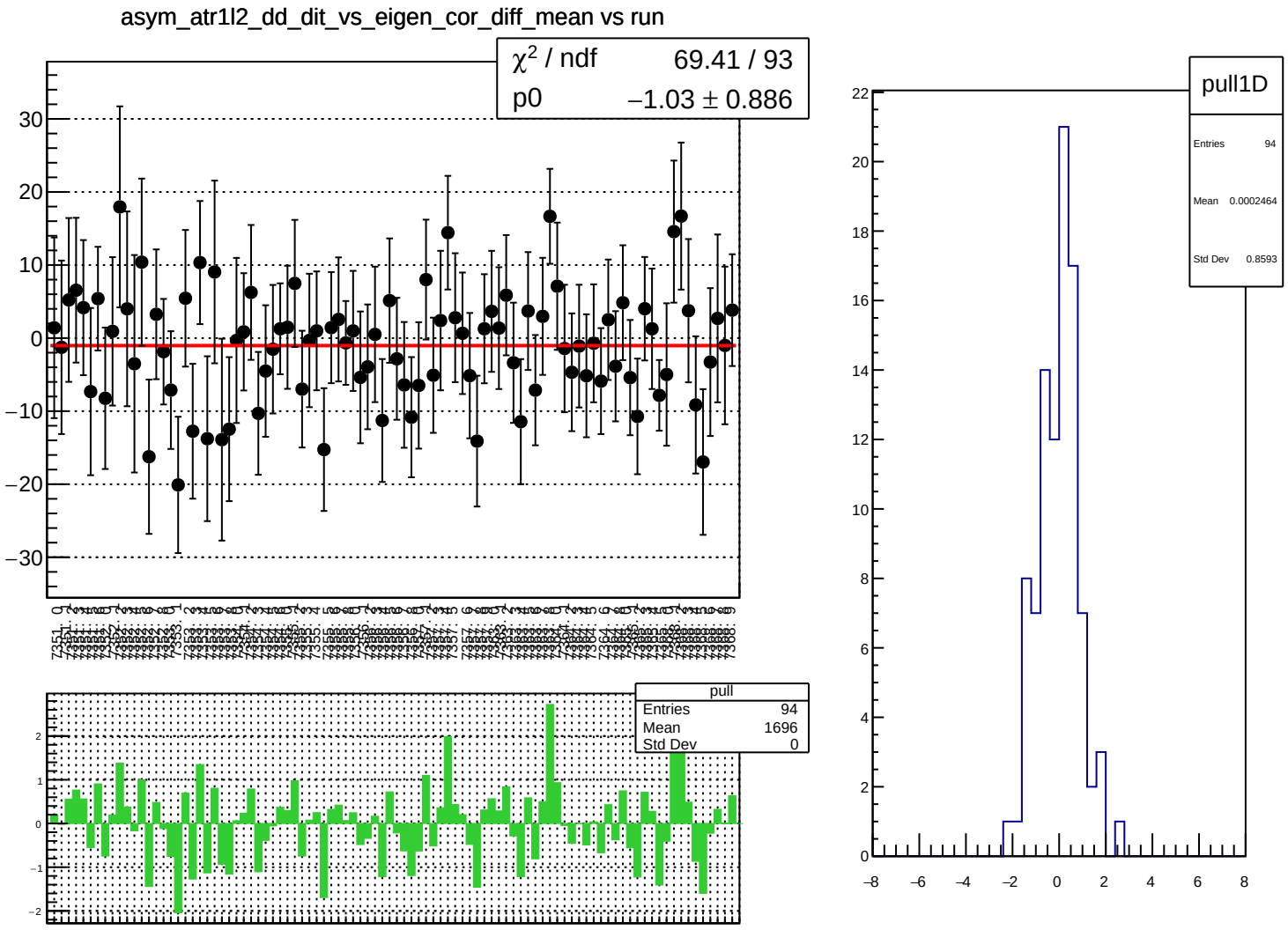

asym_atr1l2_dd_rms vs run
χ^2 / ndf 1.3e+04 / 93
p0 5359 ± 3.988
7000
6500
6000
5500
5000

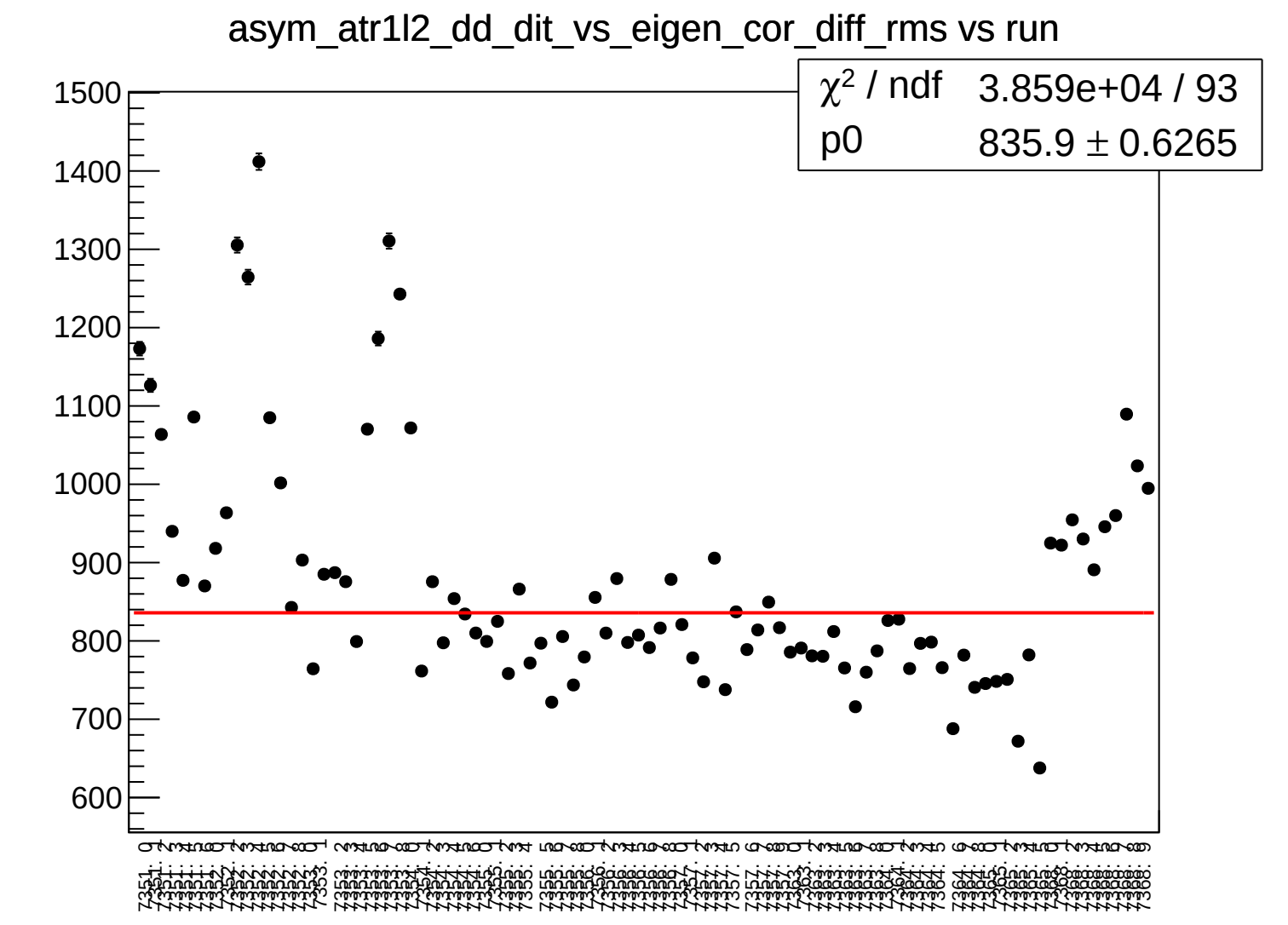

asym_atr1l2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 132.5 / 93
p0 2.297e−13 ± 1.308e−13
pull
Entries 94
Mean −27.29
Std Dev 0
pull1D
Entries 94
Mean 0.04678
Std Dev 1.187

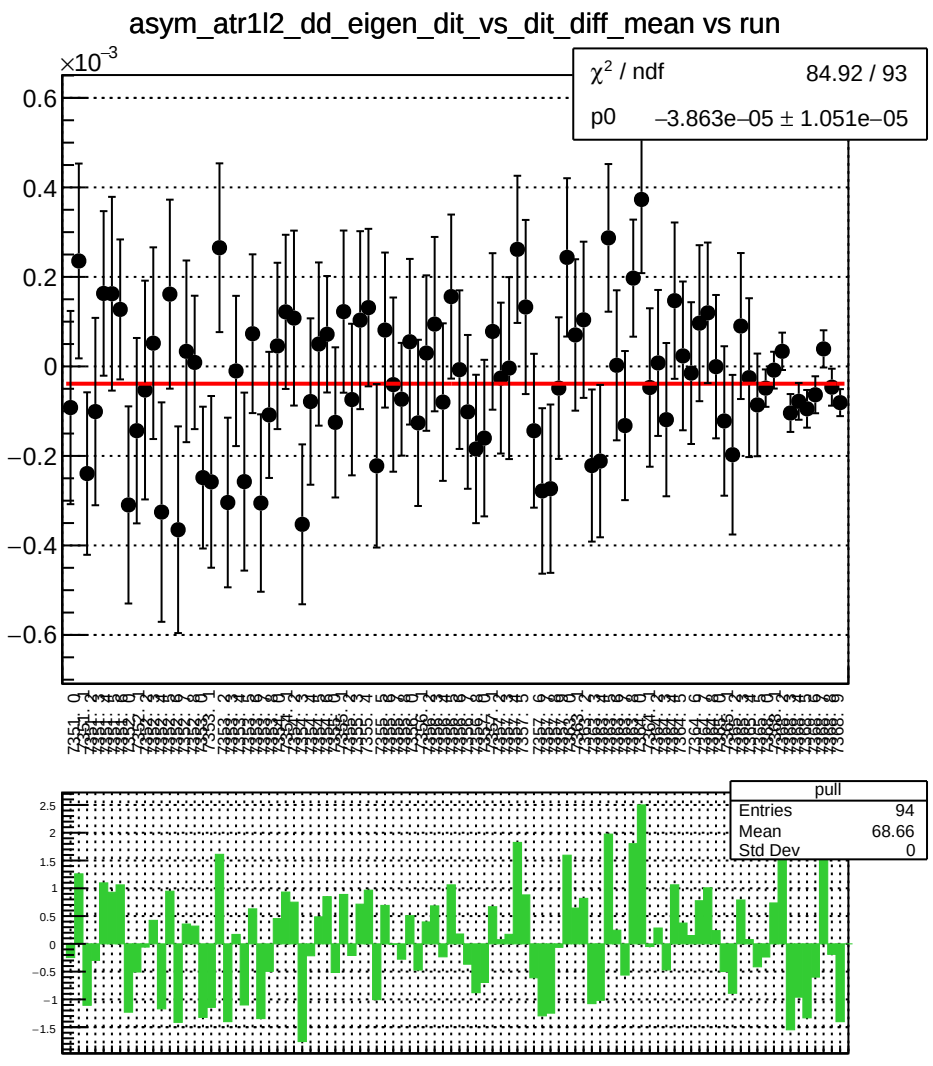

asym_atr1l2_dd_reg_vs_cor_diff_rms vs run
χ^2 / ndf 1.386e+06 / 93
p0 6.088e−11 ± 9.252e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

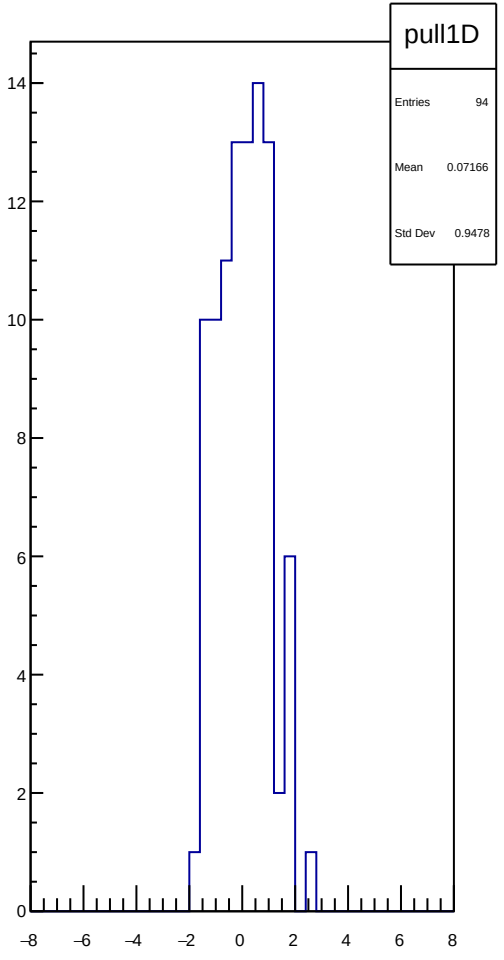

asym_atr1l2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 69.41 / 93
p0 −1.03 ± 0.886
pull
Entries 94
Mean 1696
Std Dev 0
pull1D
Entries 94
Mean 0.0002464
Std Dev 0.8593

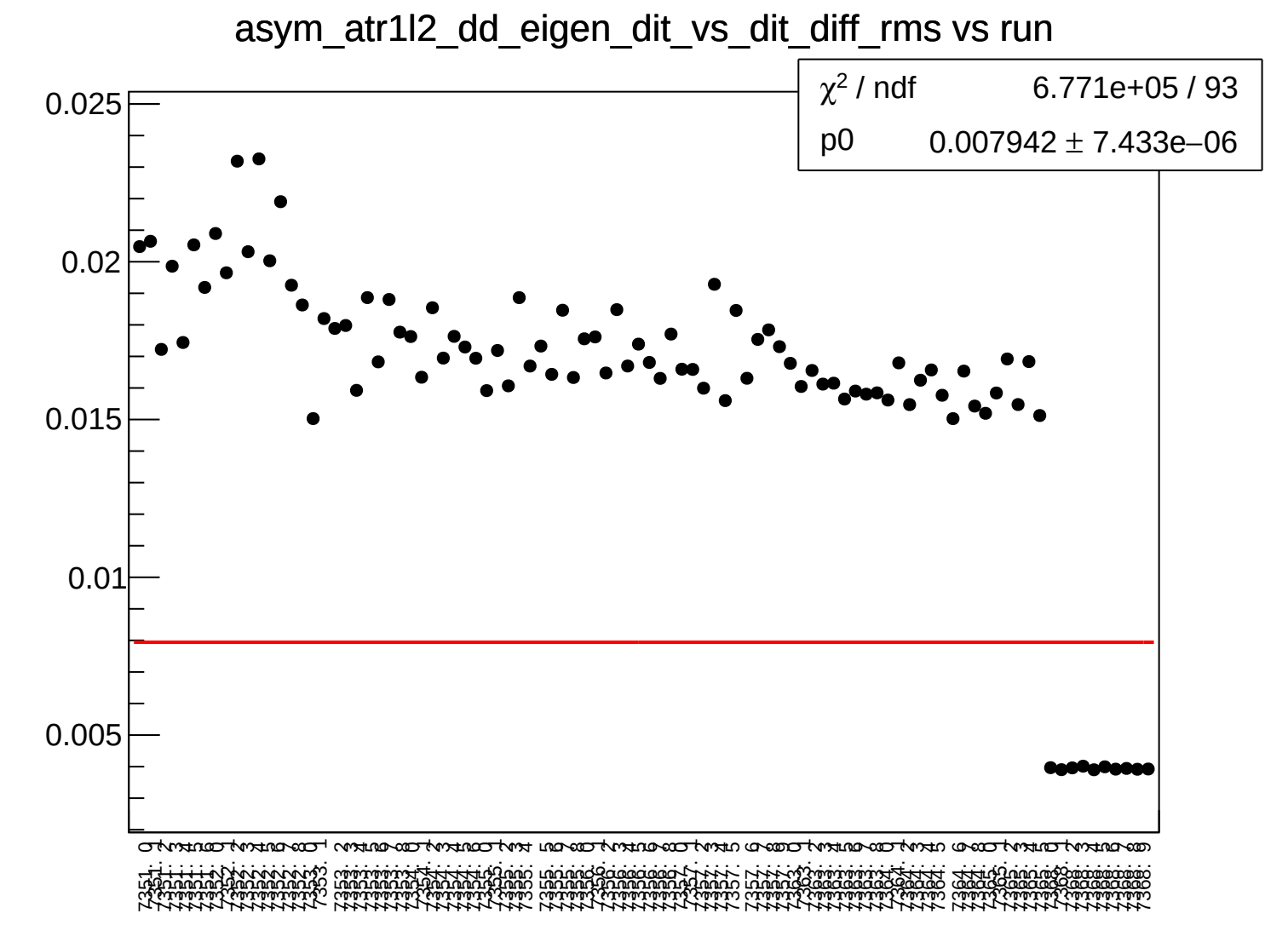

asym_atr1l2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.859e+04 / 93
p0 835.9 ± 0.6265
1500
1400
1300
1200
1100
1000
900
800
700
600

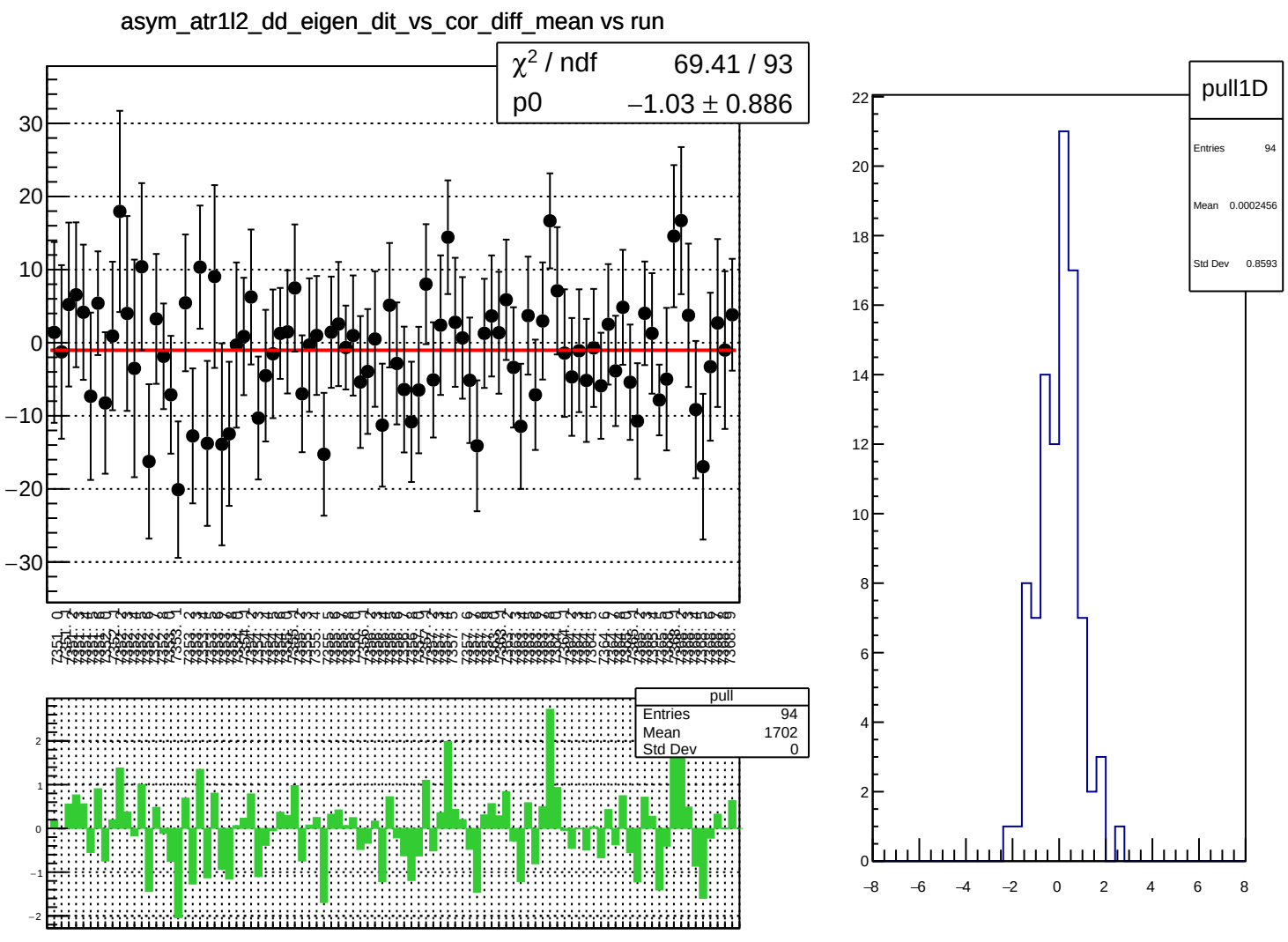

asym_atr1l2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.41 / 93
p0 −1.03 ± 0.886
pull
Entries 94
Mean 1696
Std Dev 0
pull1D
Entries 94
Mean 0.0002464
Std Dev 0.8593

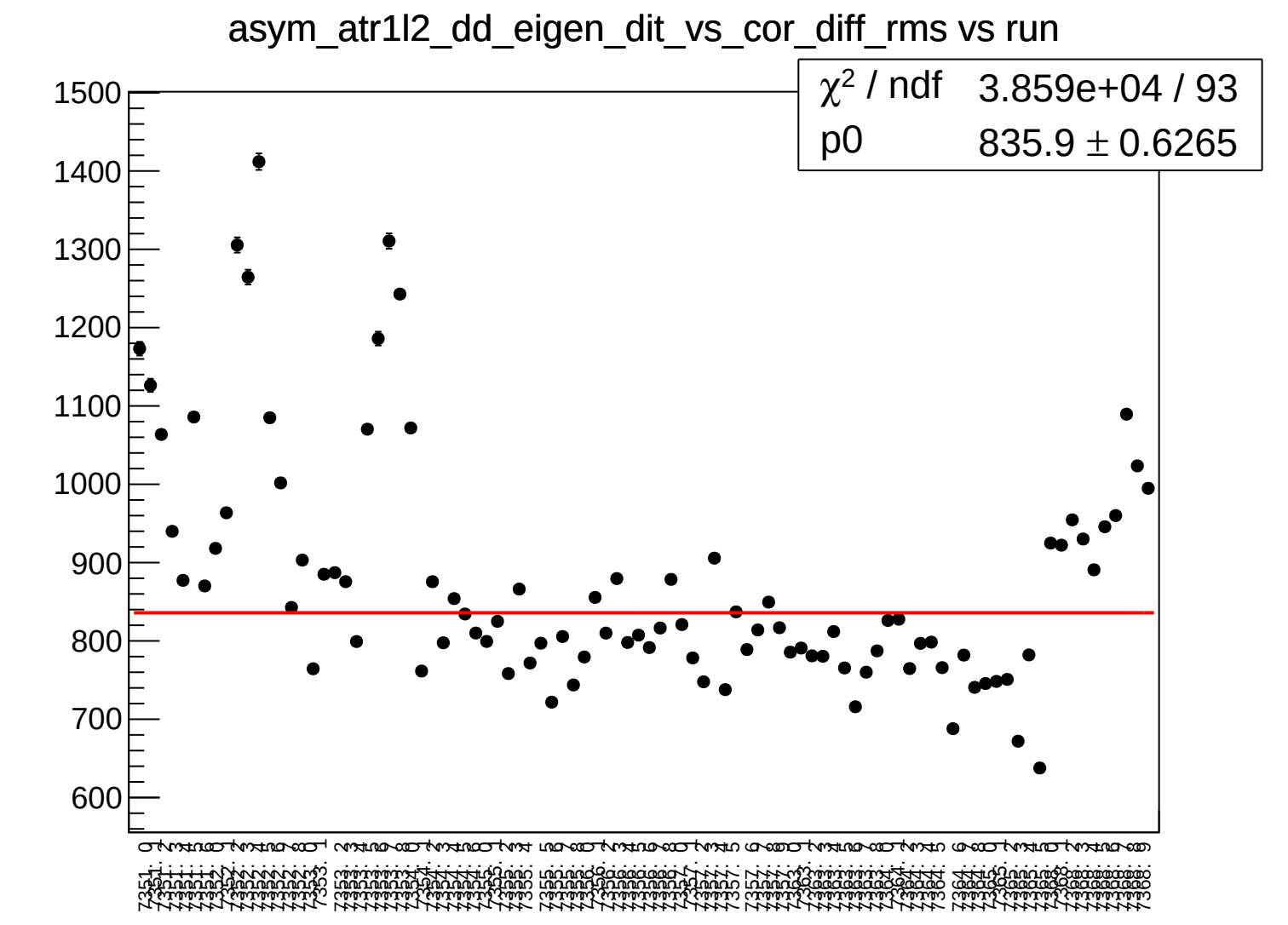

asym_atr1l2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.859e+04 / 93
p0 835.9 ± 0.6265
1500
1400
1300
1200
1100
1000
900
800
700
600

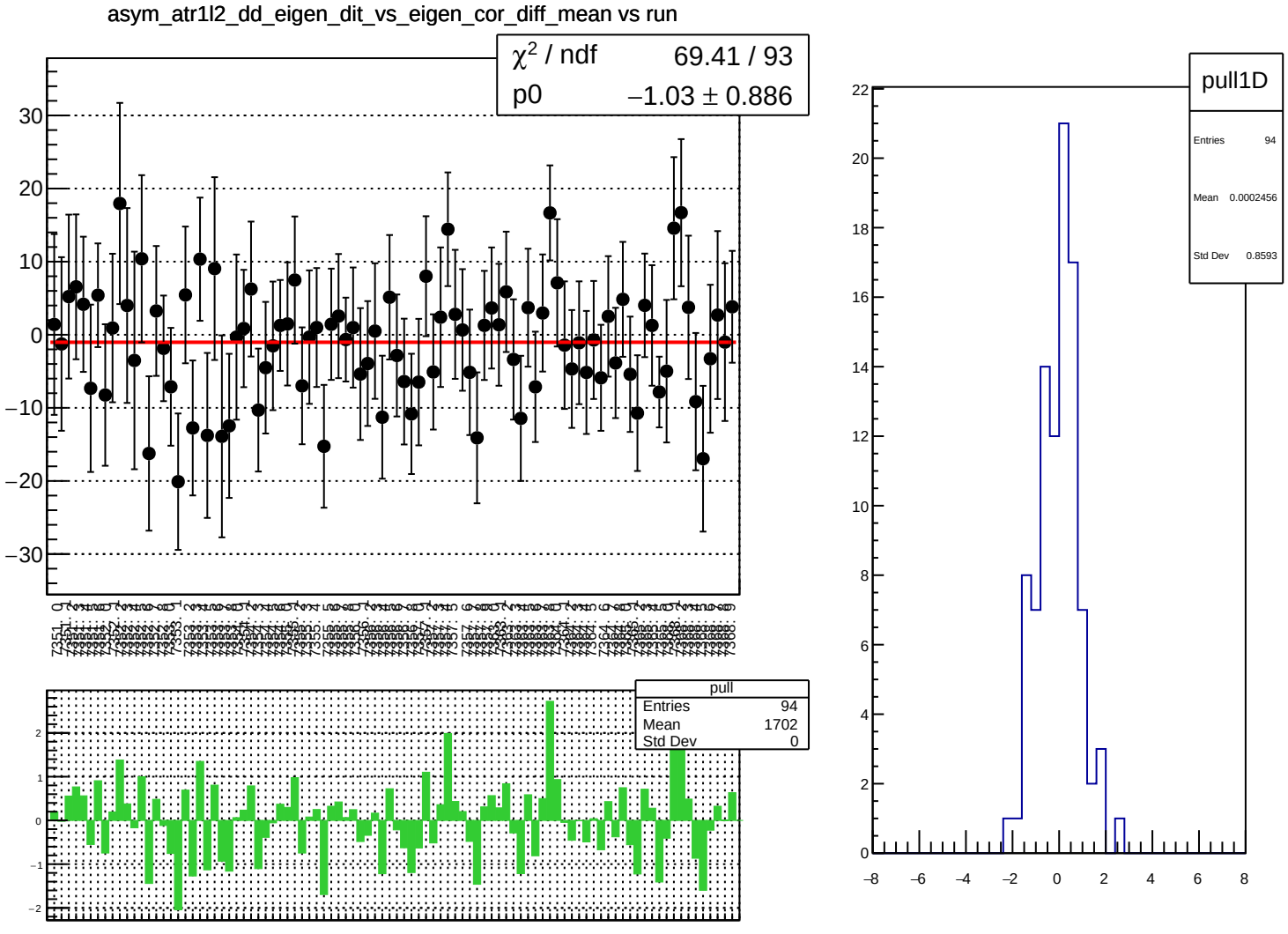

asym_atr1l2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 84.92 / 93
p0 −3.863e−05 ± 1.051e−05
pull
Entries 94
Mean 68.66
Std Dev 0

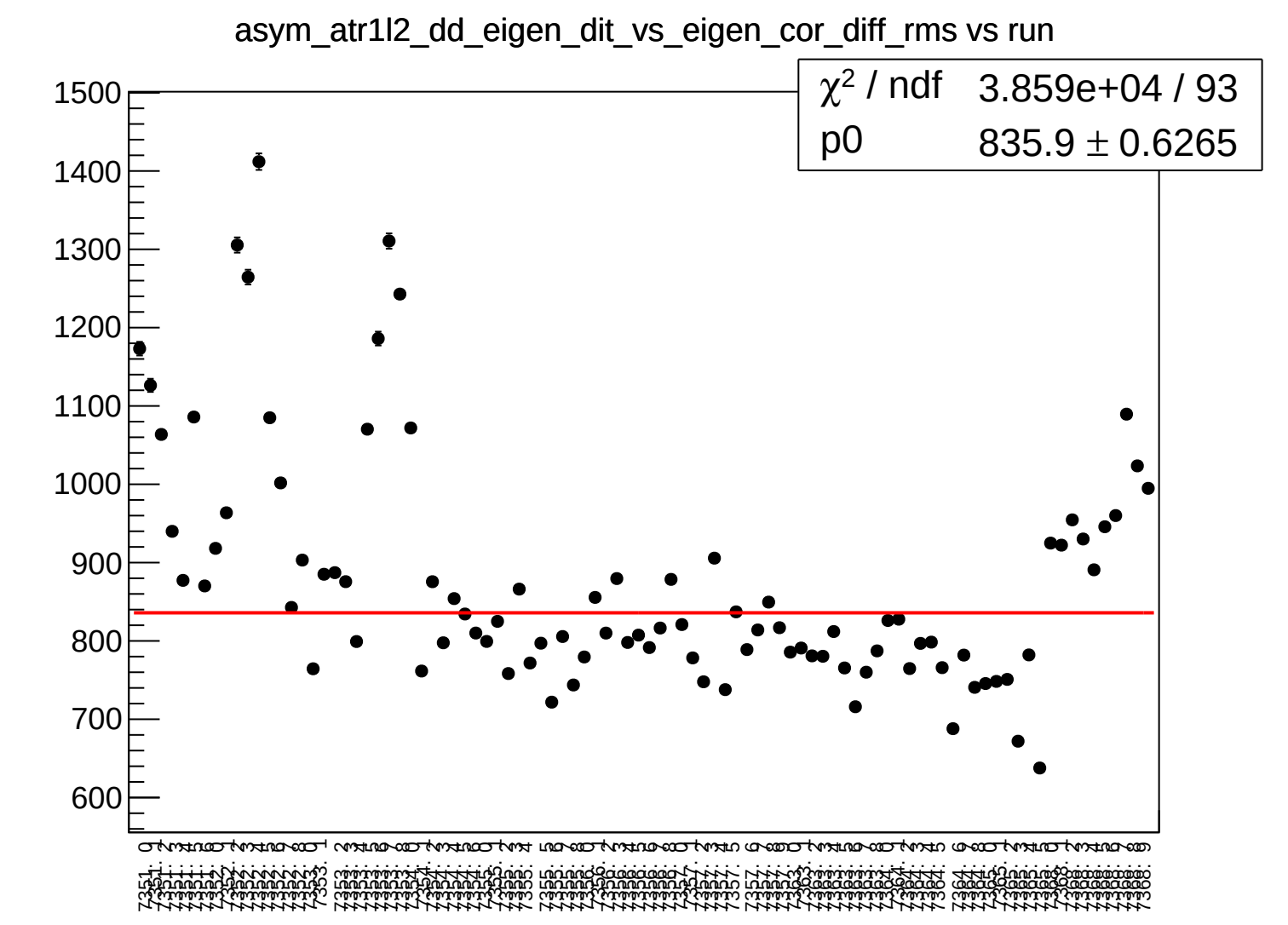

pull1D
Entries 94
Mean 0.07166
Std Dev 0.9478

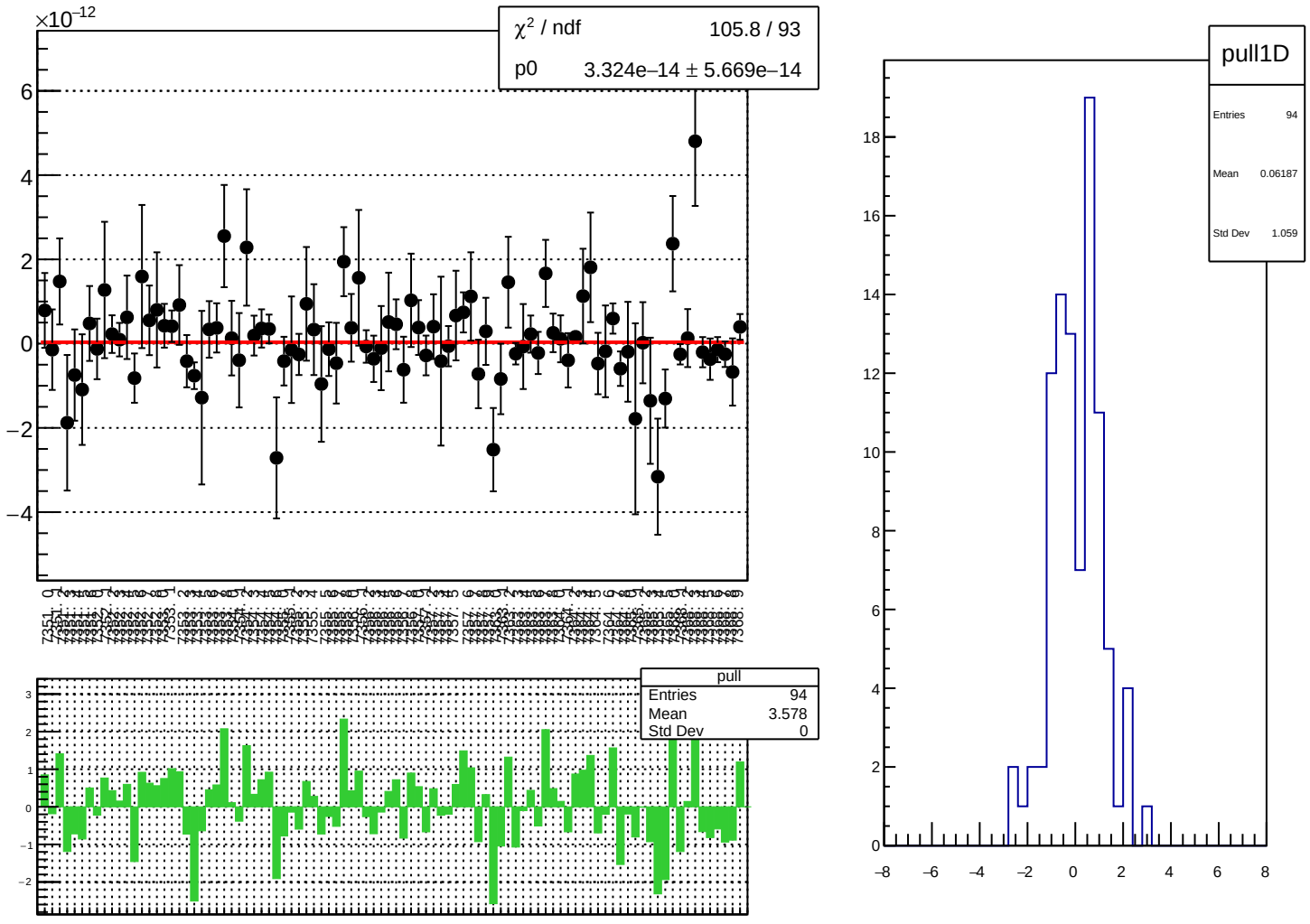

asym_atr1l2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.771e+05 / 93
p0 0.007942 ± 7.433e−06
0.025
0.02
0.015
0.01
0.005

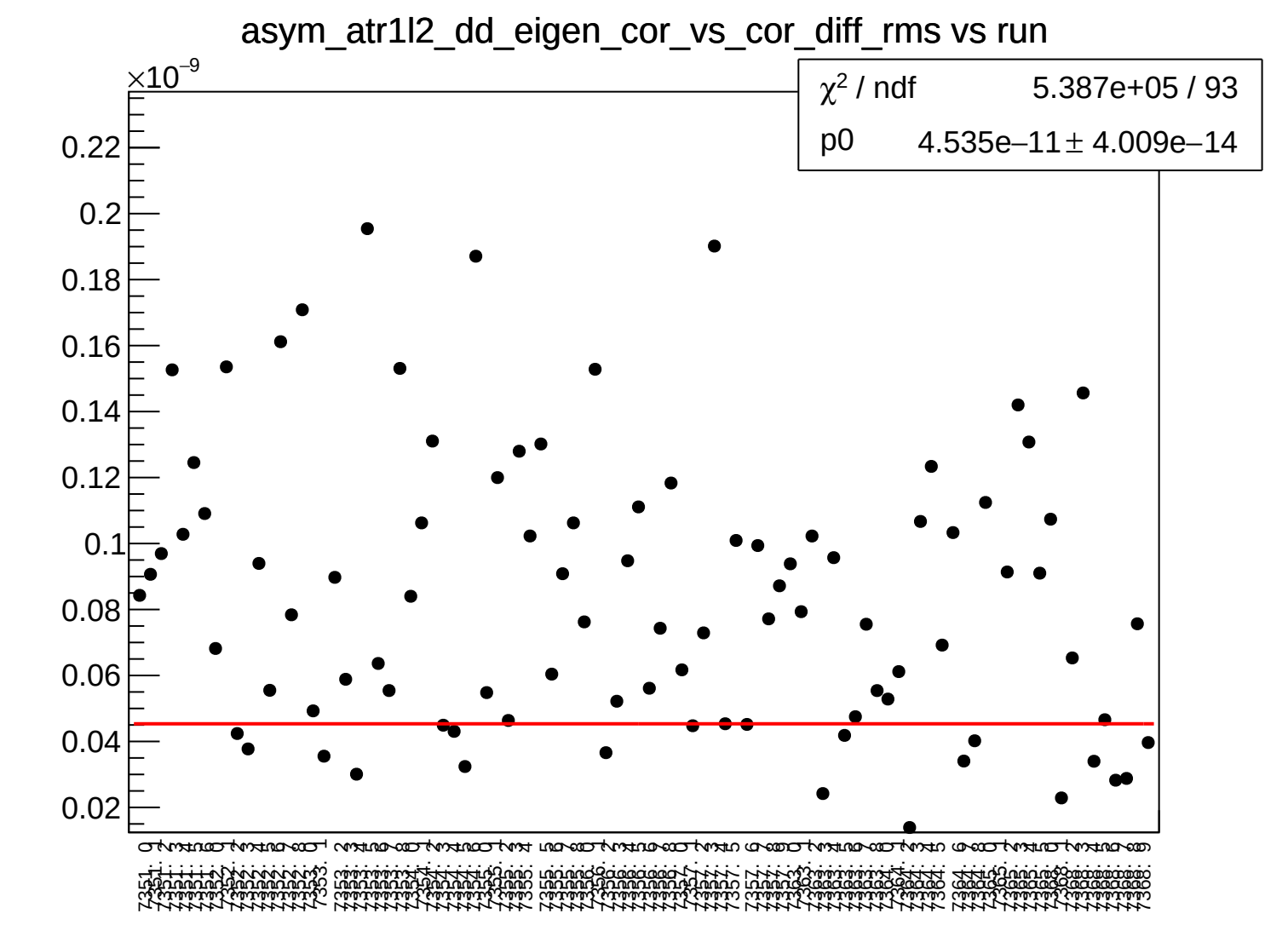

asym_atr1l2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 69.41 / 93
p0 −1.03 ± 0.886
pull
Entries 94
Mean 1702
Std Dev 0
pull1D
Entries 94
Mean 0.0002456
Std Dev 0.8593

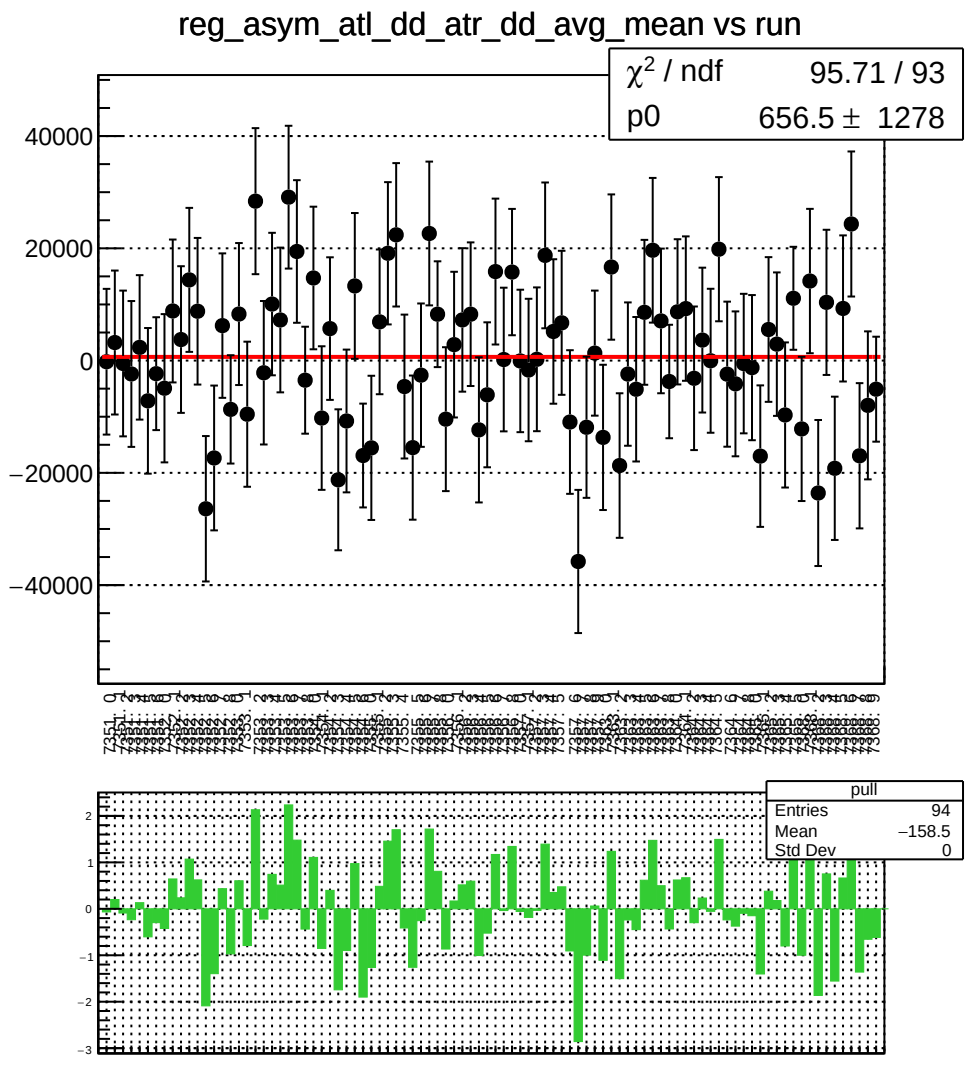

asym_atr1l2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.859e+04 / 93
p0 835.9 ± 0.6265
1500
1400
1300
1200
1100
1000
900
800
700
600

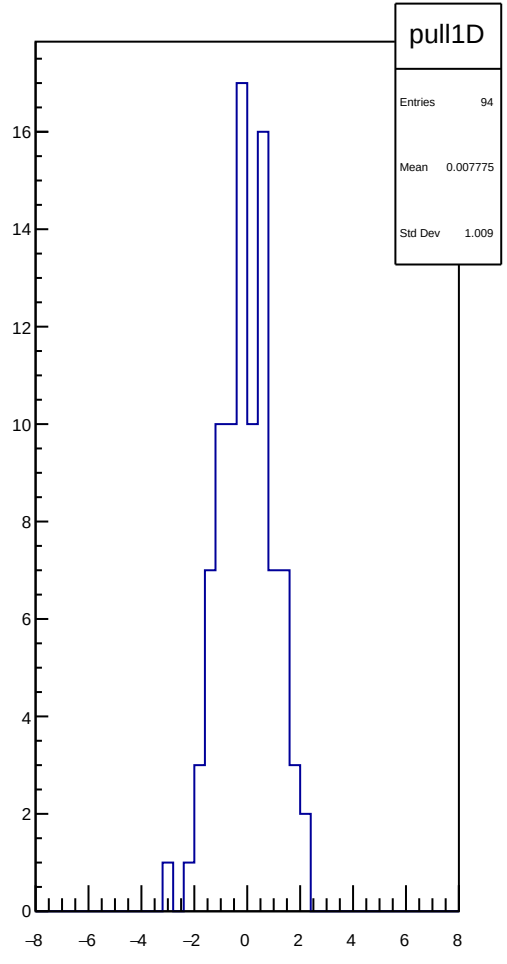

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.41 / 93
p0 −1.03 ± 0.886
pull
Entries 94
Mean 1702
Std Dev 0
pull1D
Entries 94
Mean 0.0002456
Std Dev 0.8593

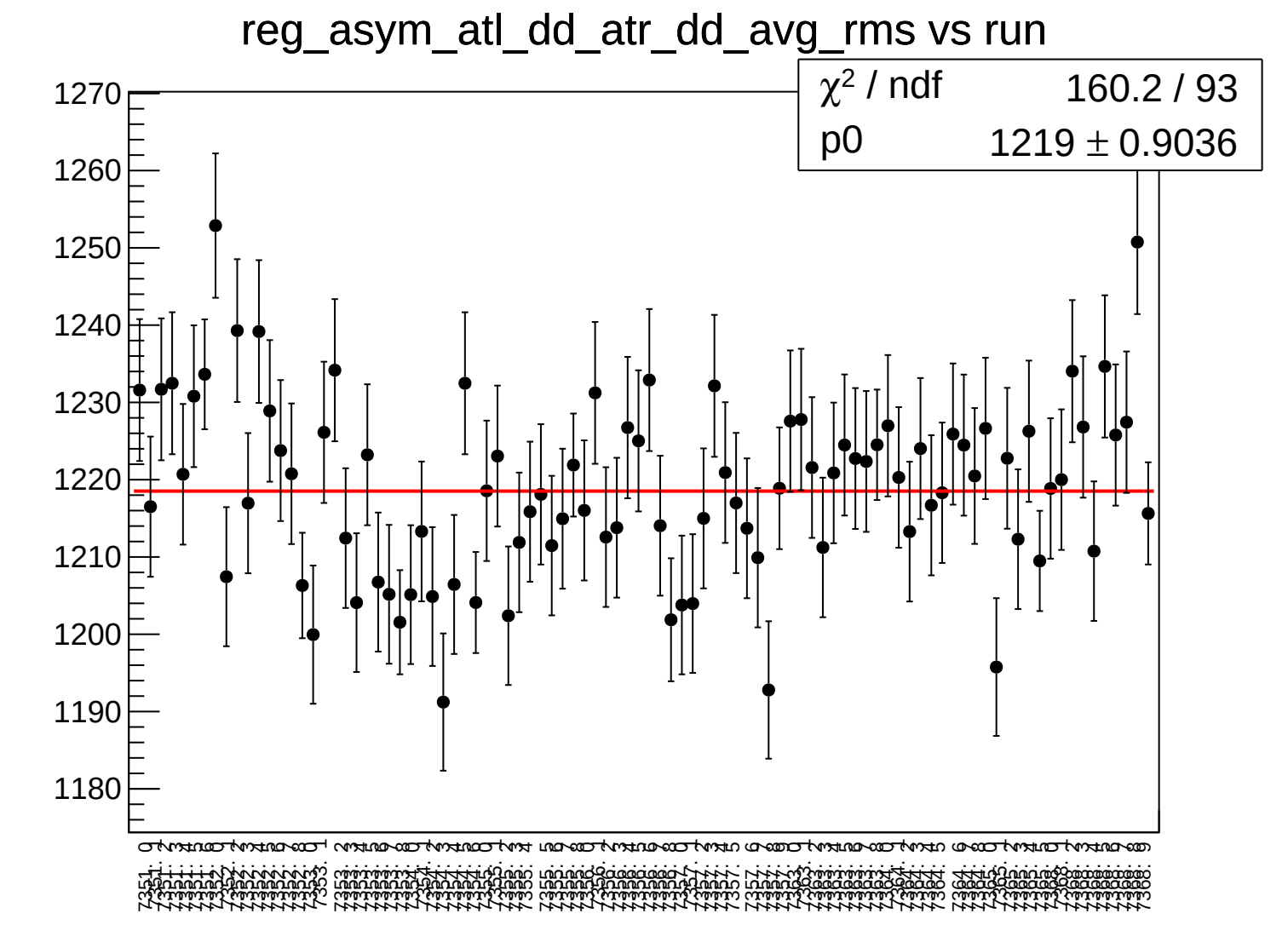

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.859e+04 / 93
p0 835.9 ± 0.6265
1500
1400
1300
1200
1100
1000
900
800
700
600

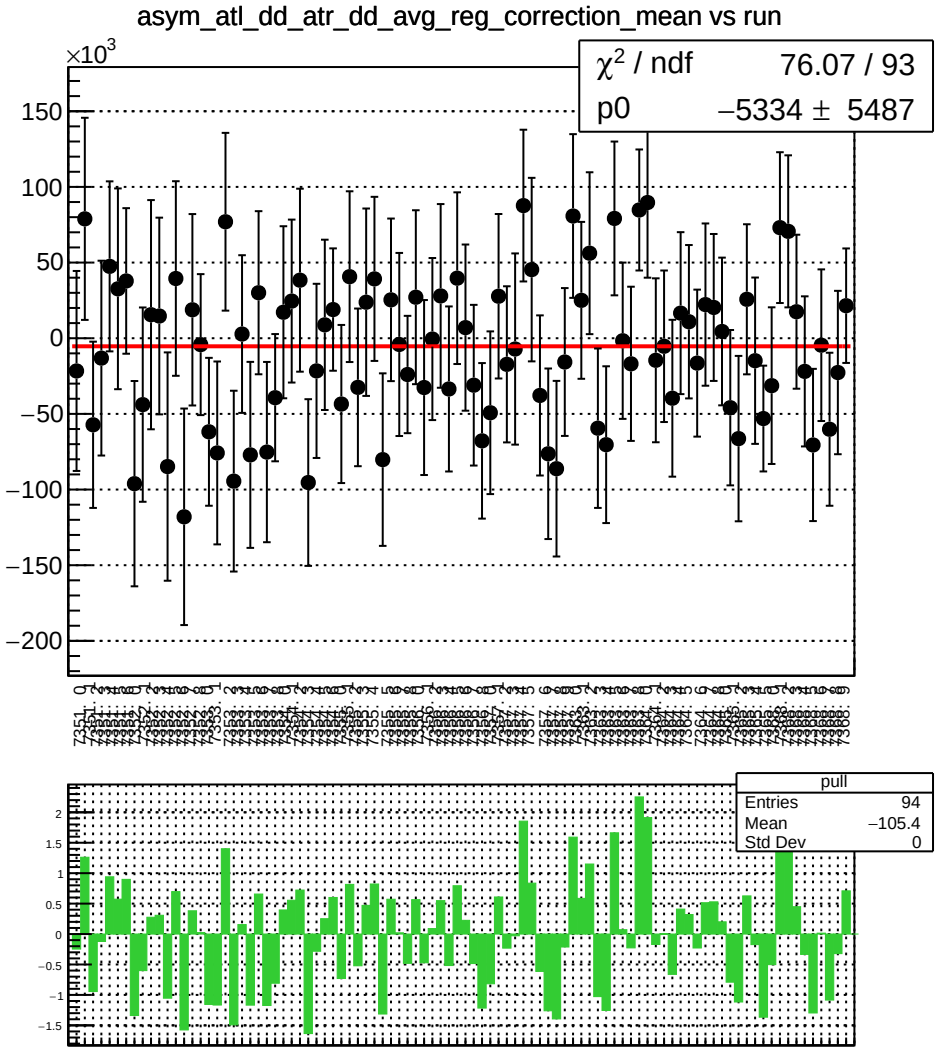

asym_atr1l2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 105.8 / 93
p0 3.324e−14 ± 5.669e−14
pull
Entries 94
Mean 3.578
Std Dev 0
pull1D
Entries 94
Mean 0.06187
Std Dev 1.059

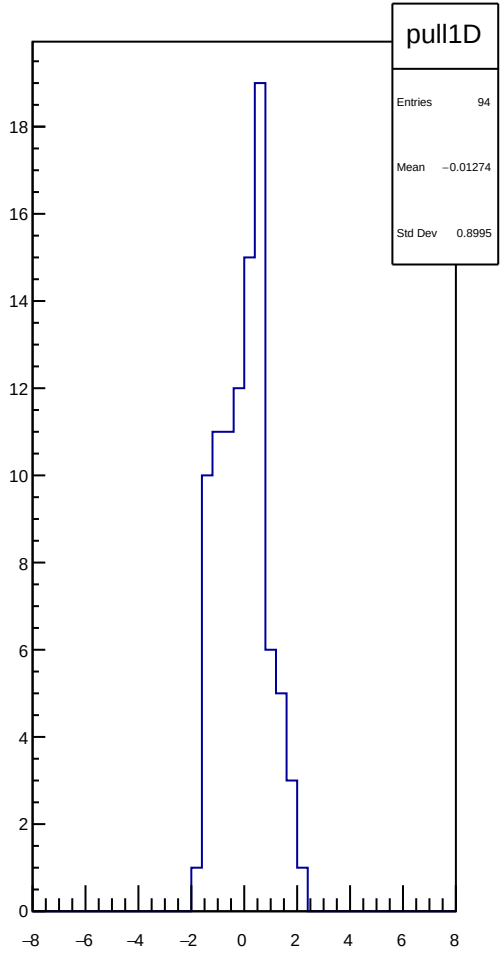

asym_atr1l2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.387e+05 / 93
p0 4.535e−11 ± 4.009e−14
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

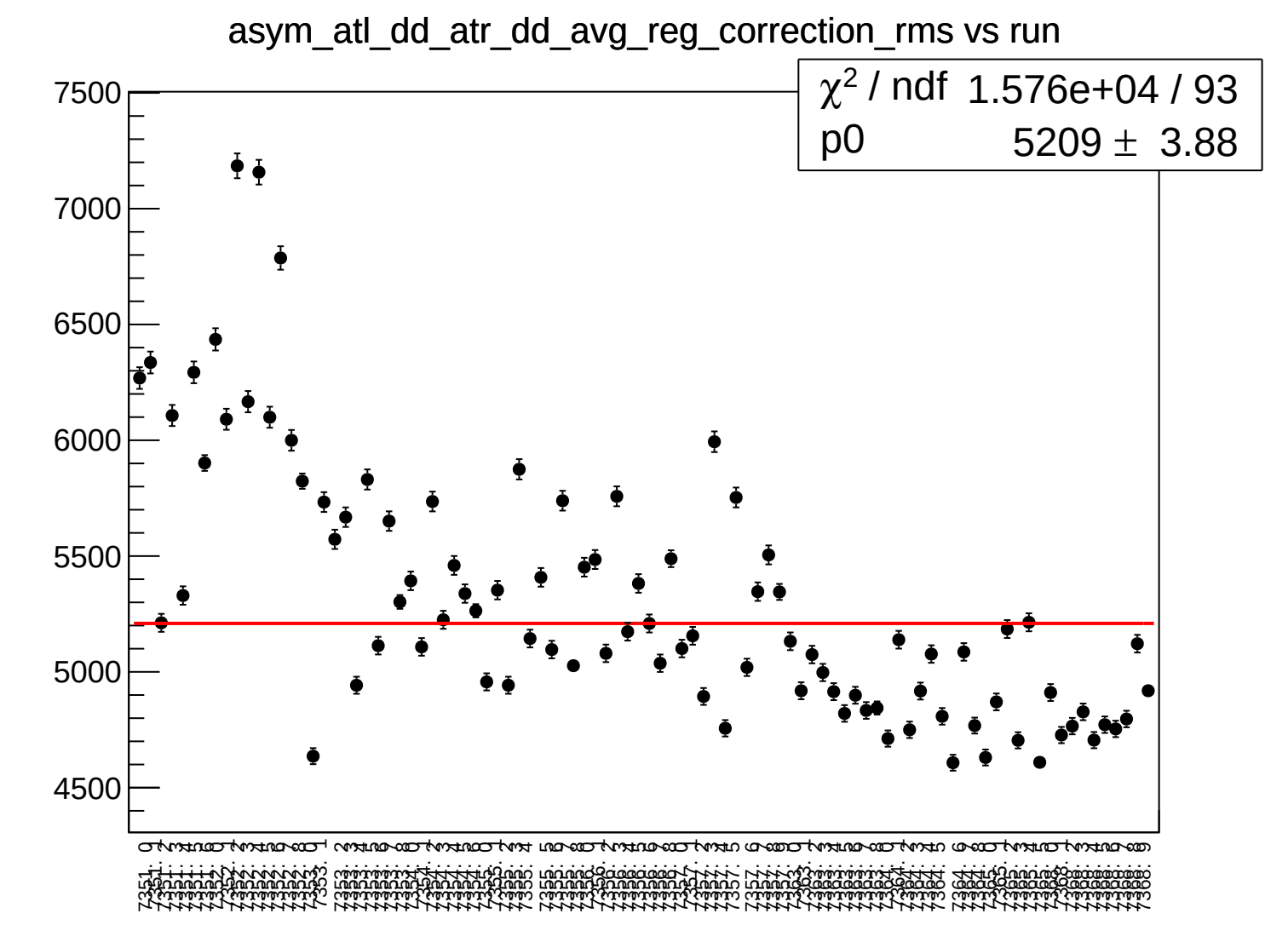

reg_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 95.71 / 93
p0 656.5 ± 1278
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −158.5
Std Dev 0
2
1
0
−1
−2
−3

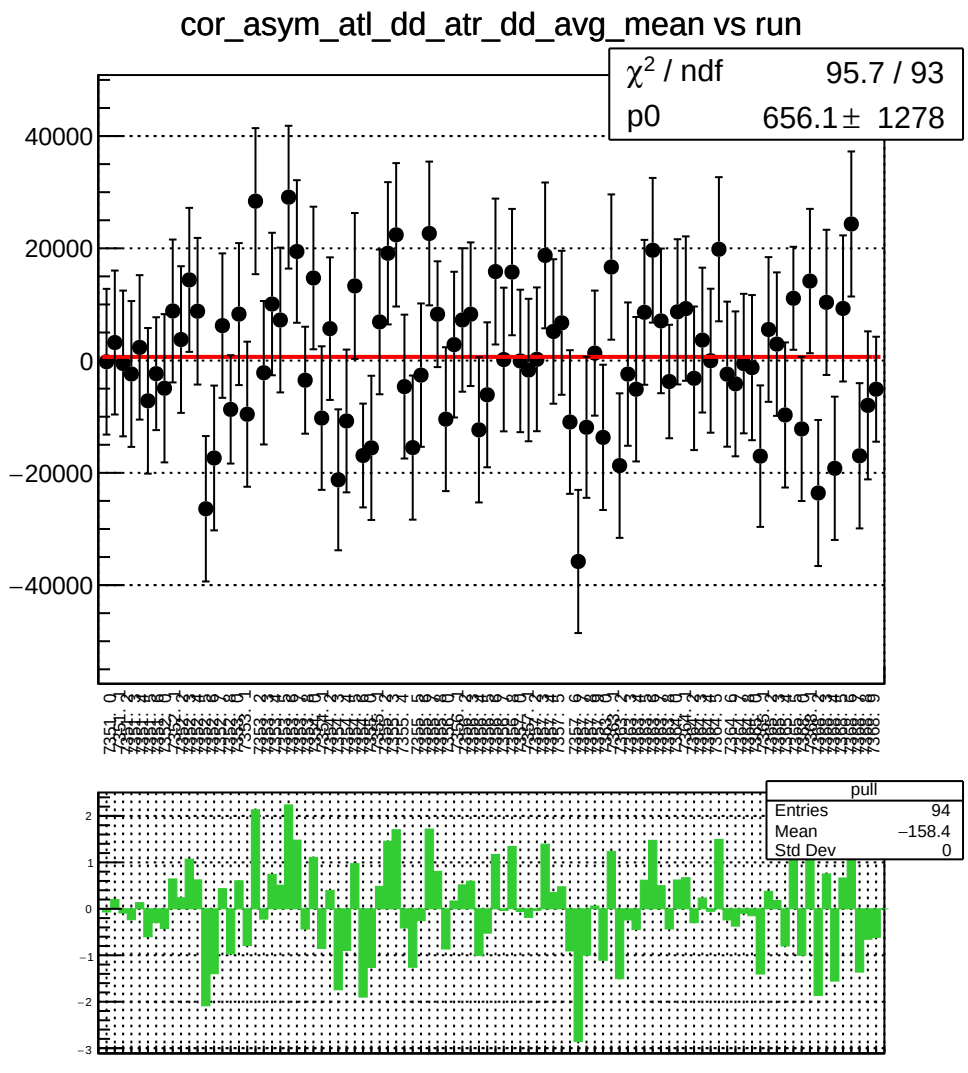

pull1D
Entries 94
Mean 0.007775
Std Dev 1.009
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

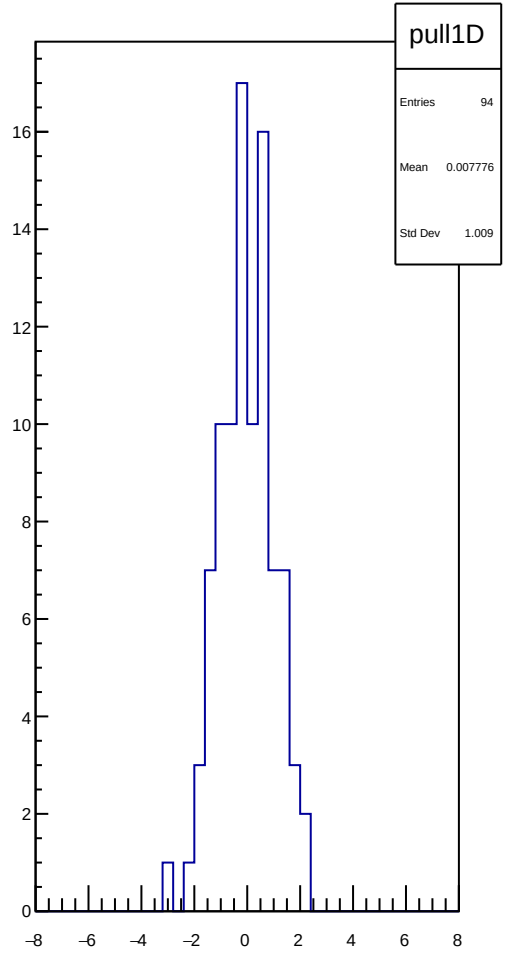

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 160.2 / 93
p0 1219 ± 0.9036
1270
1260
1250
1240
1230
1220
1210
1200
1190
1180

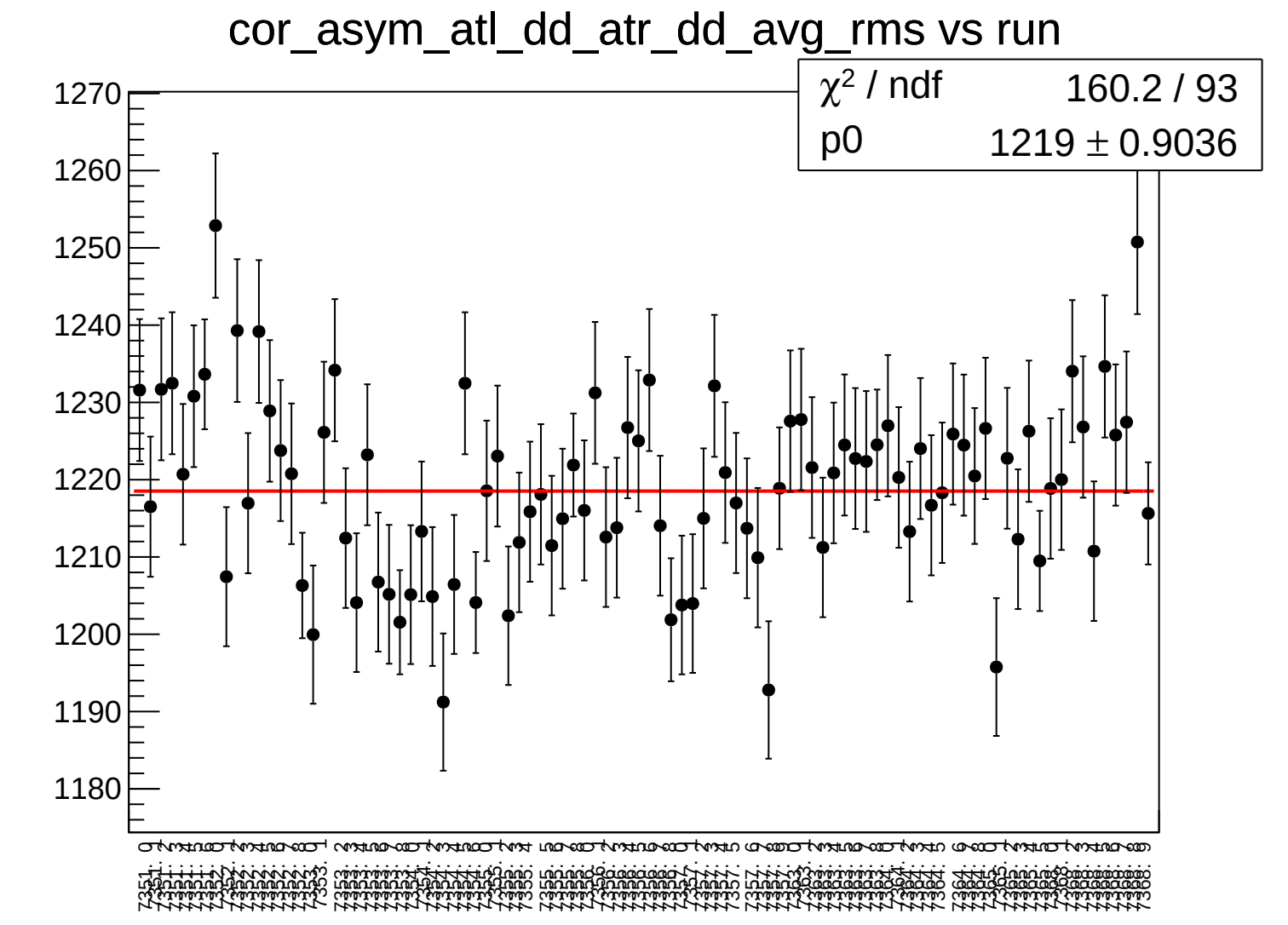

asym_atl_dd_atr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 76.07 / 93
p0 −5334 ± 5487
150
100
50
0
−50
−100
−150
−200
pull
Entries 94
Mean −105.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

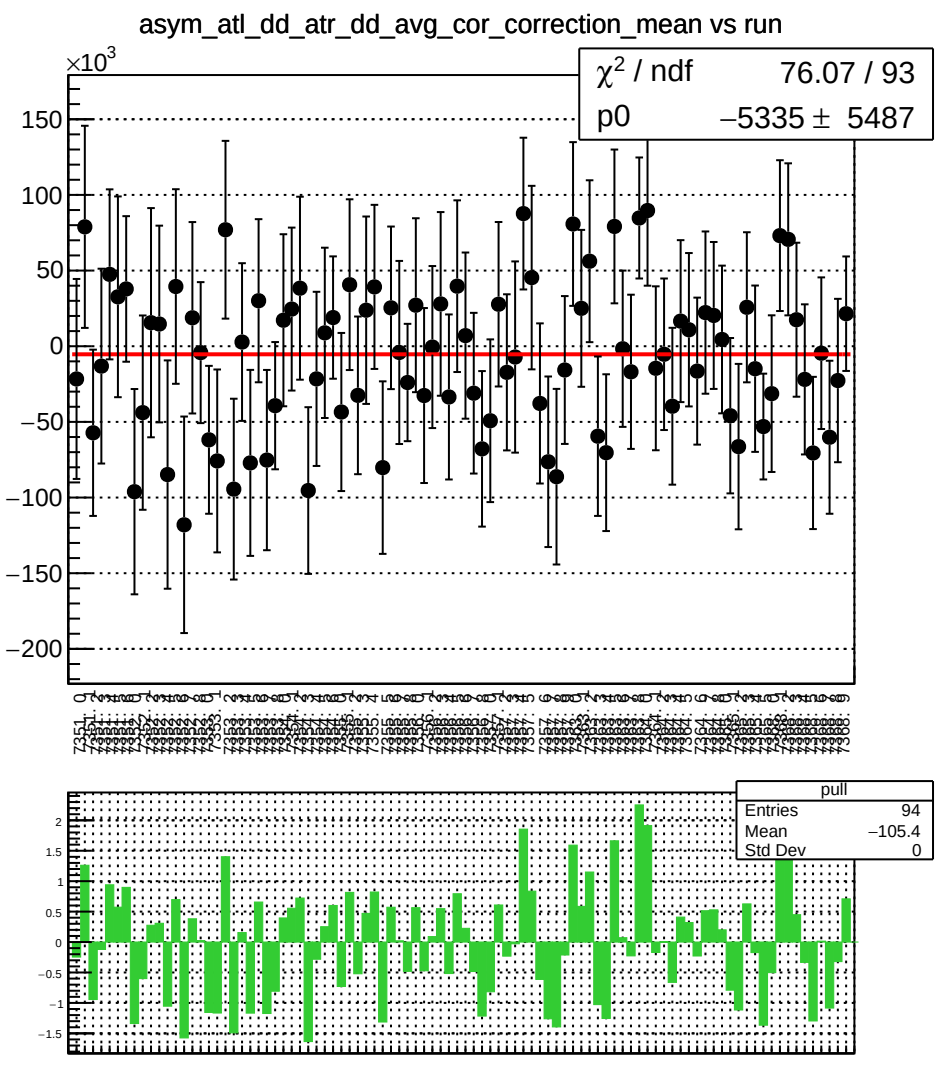

pull1D
Entries 94
Mean −0.01274
Std Dev 0.8995
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

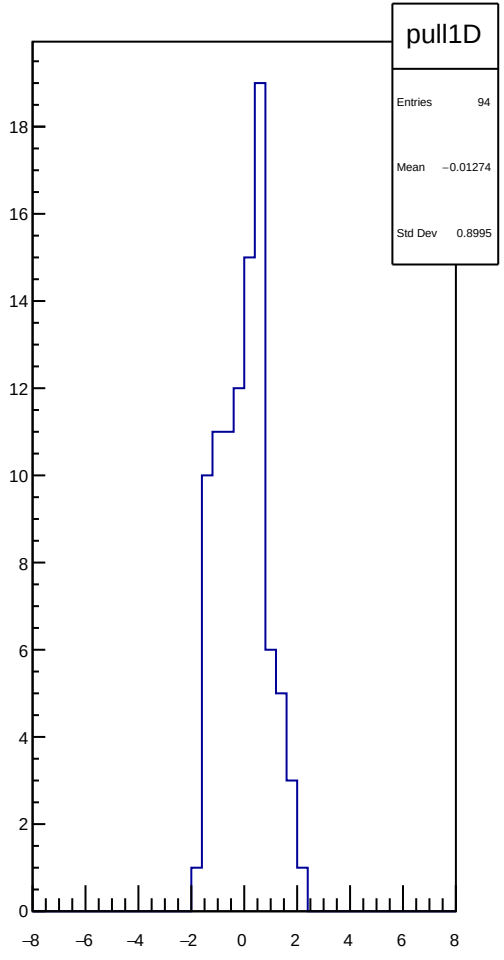

asym_atl_dd_atr_dd_avg_reg_correction_rms vs run
χ² / ndf 1.576e+04 / 93
p0 5209 ± 3.88
7500
7000
6500
6000
5500
5000
4500

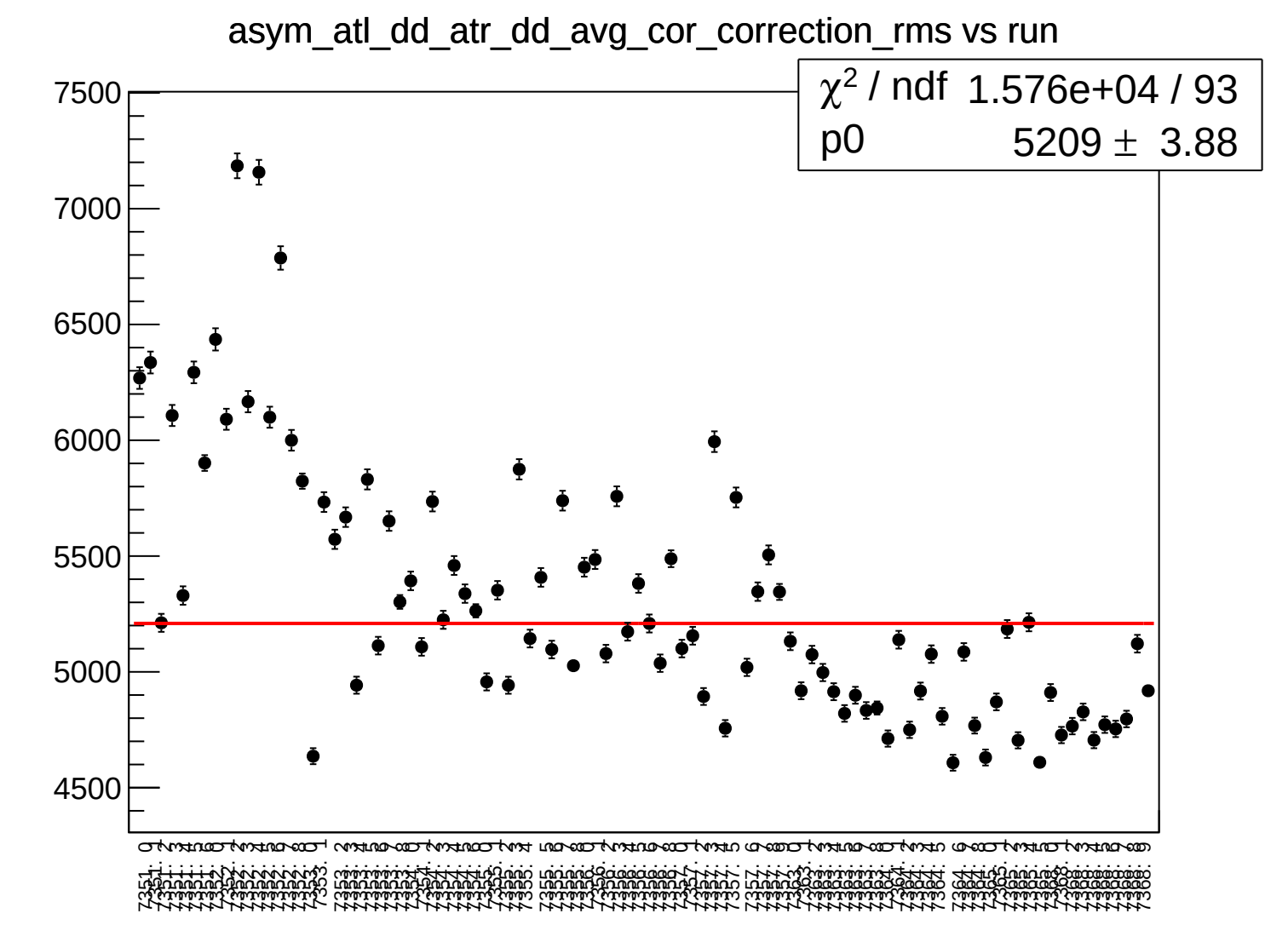

cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 95.7 / 93
p0 656.1 ± 1278
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −158.4
Std Dev 0
2
1
0
−1
−2
−3

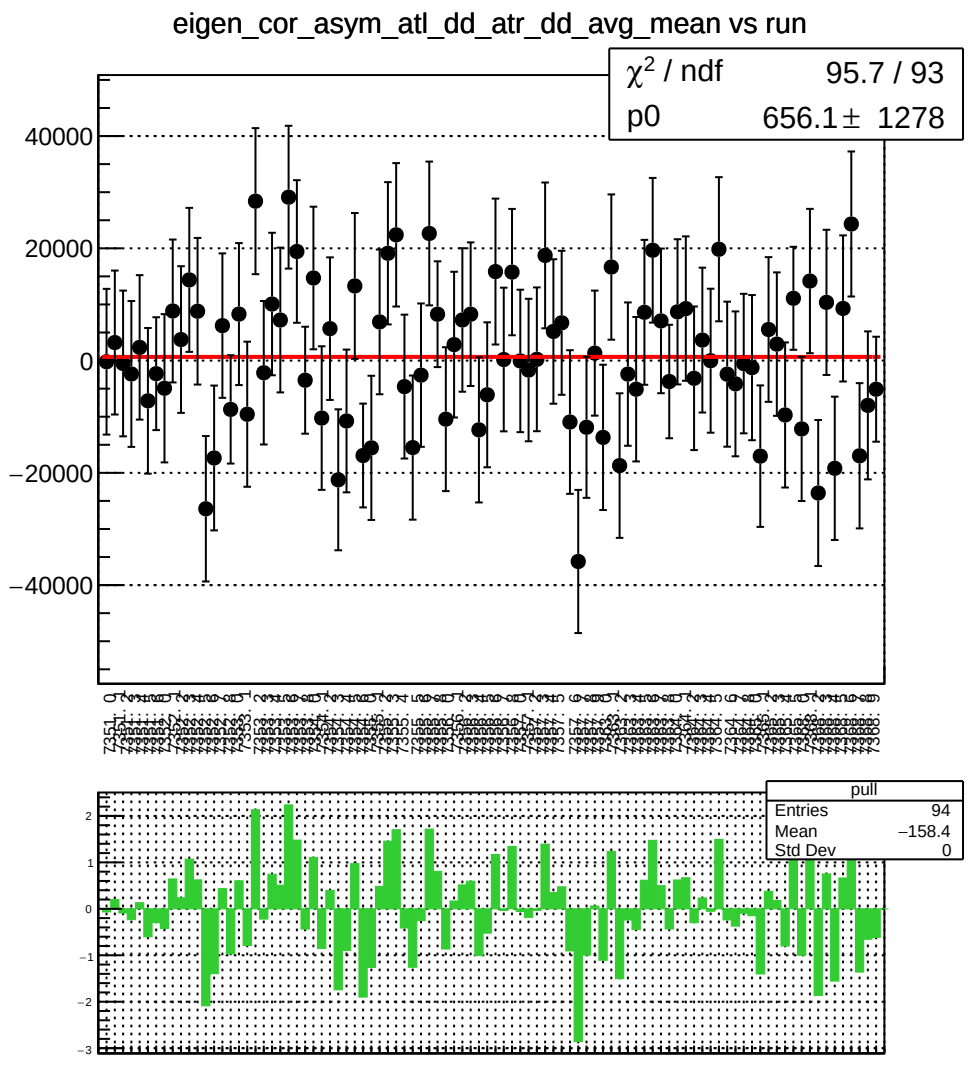

pull1D
Entries 94
Mean 0.007776
Std Dev 1.009
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

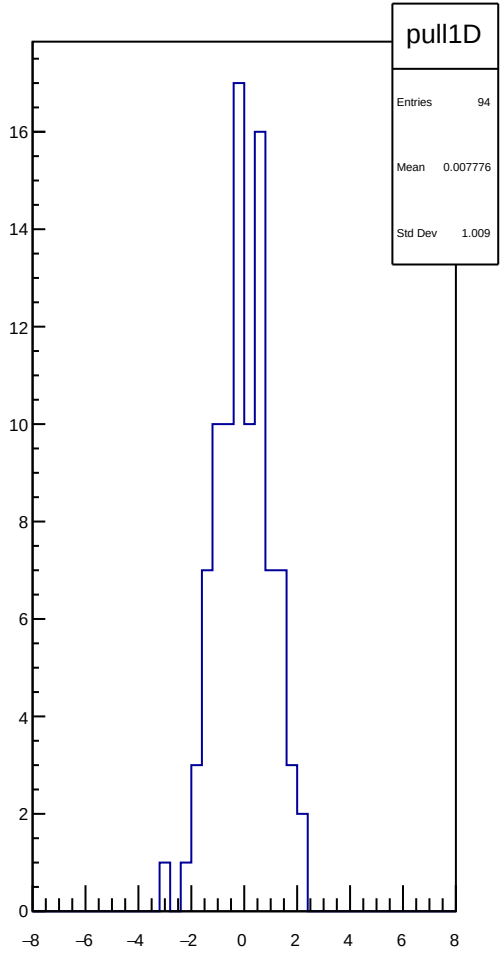

cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 160.2 / 93
p0 1219 ± 0.9036
1270
1260
1250
1240
1230
1220
1210
1200
1190
1180

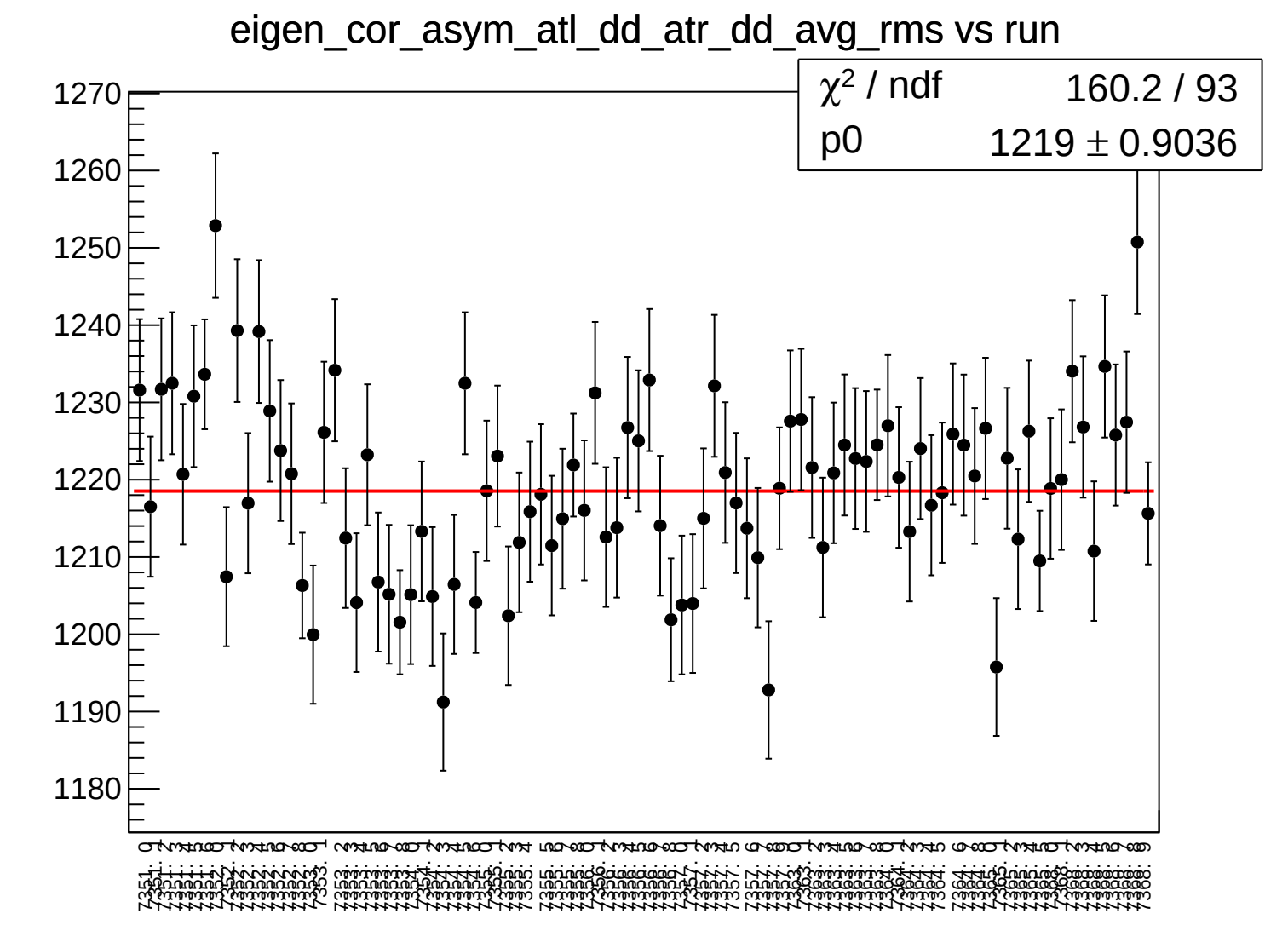

asym_atl_dd_atr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 76.07 / 93
p0 −5335 ± 5487
150
100
50
0
−50
−100
−150
−200
pull
Entries 94
Mean −105.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

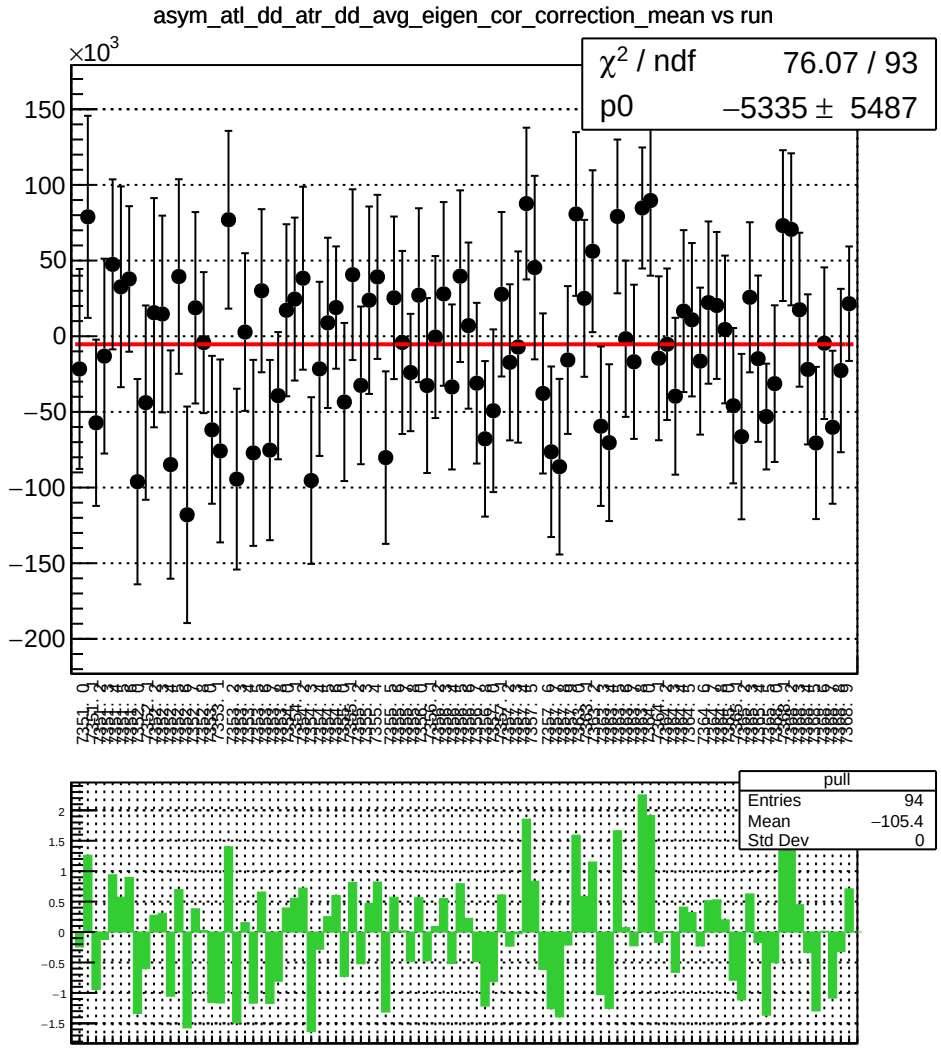

pull1D
Entries 94
Mean −0.01274
Std Dev 0.8995
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

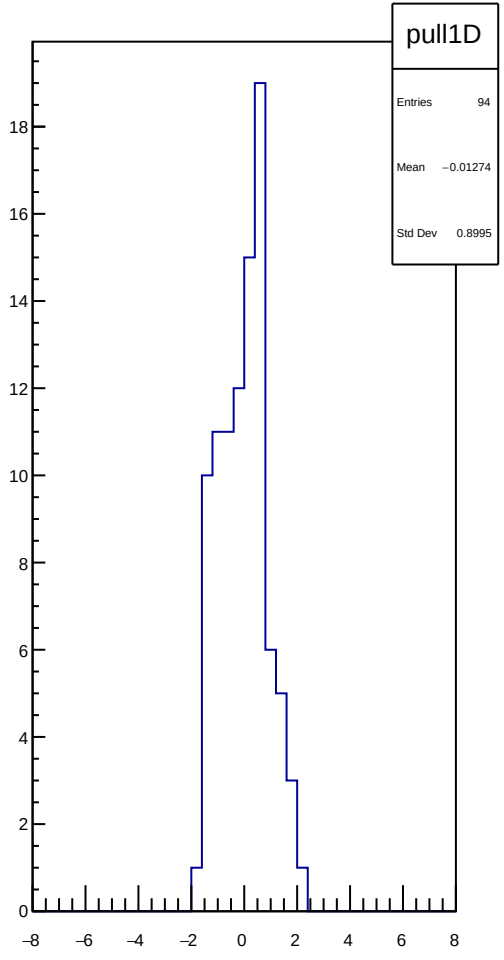

asym_atl_dd_atr_dd_avg_cor_correction_rms vs run
χ² / ndf 1.576e+04 / 93
p0 5209 ± 3.88
7500
7000
6500
6000
5500
5000
4500

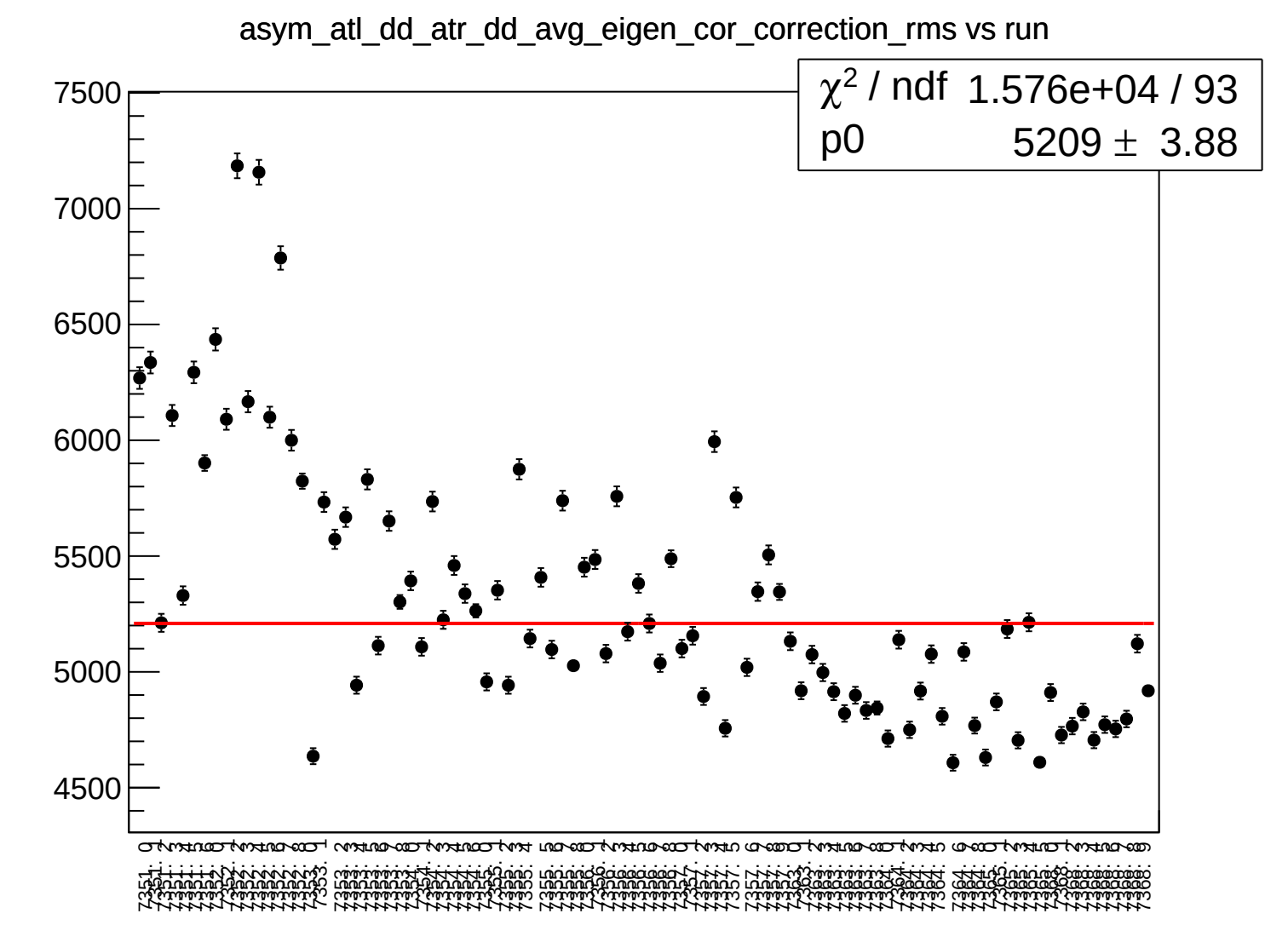

eigen_cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 95.7 / 93
p0 656.1 ± 1278
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −158.4
Std Dev 0
2
1
0
−1
−2
−3

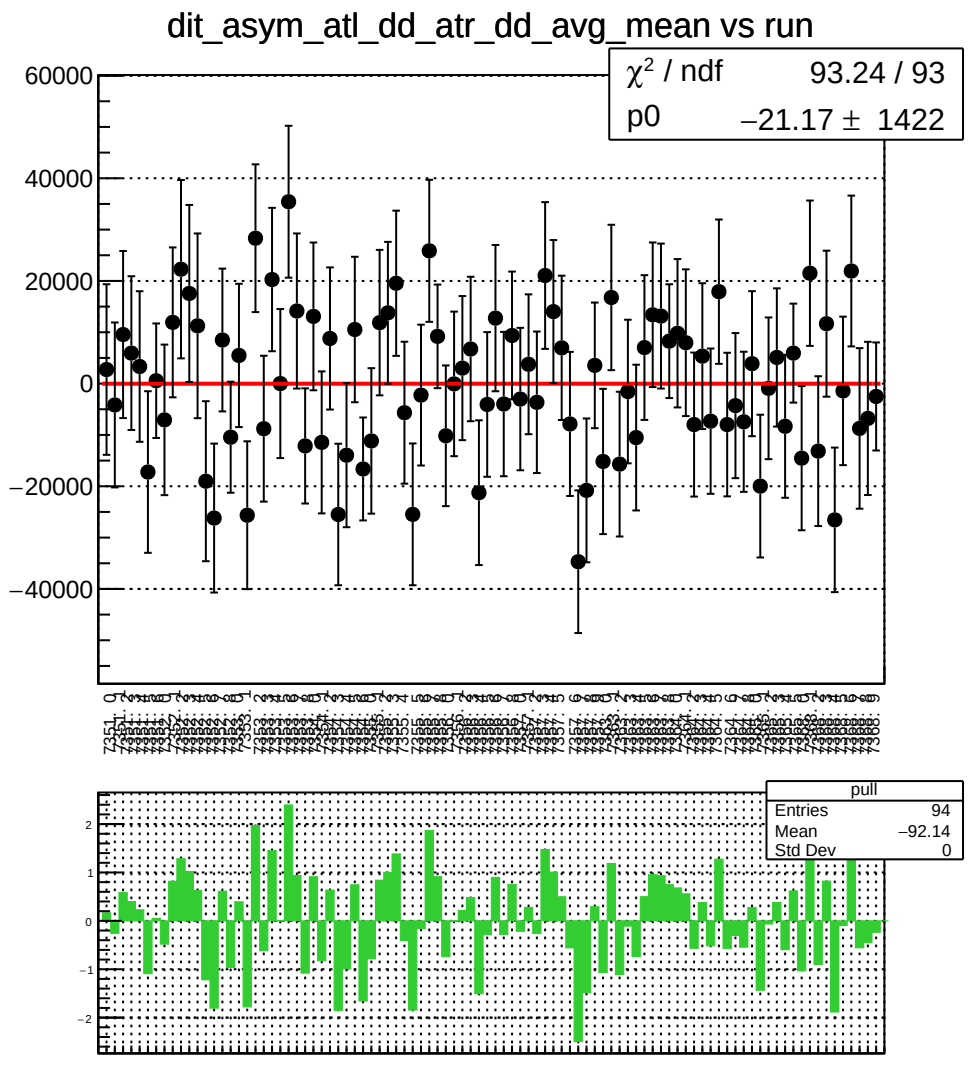

pull1D
Entries 94
Mean 0.007776
Std Dev 1.009
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

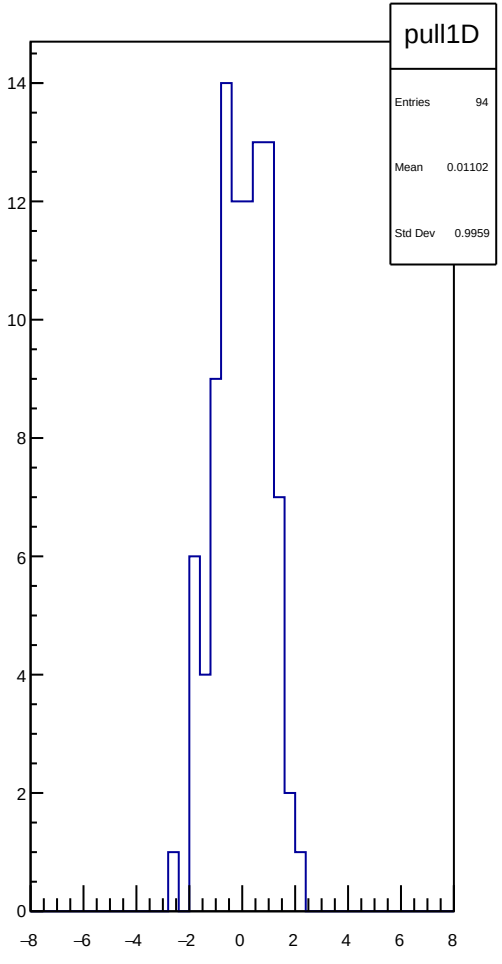

eigen_cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 160.2 / 93
p0 1219 ± 0.9036
1270
1260
1250
1240
1230
1220
1210
1200
1190
1180

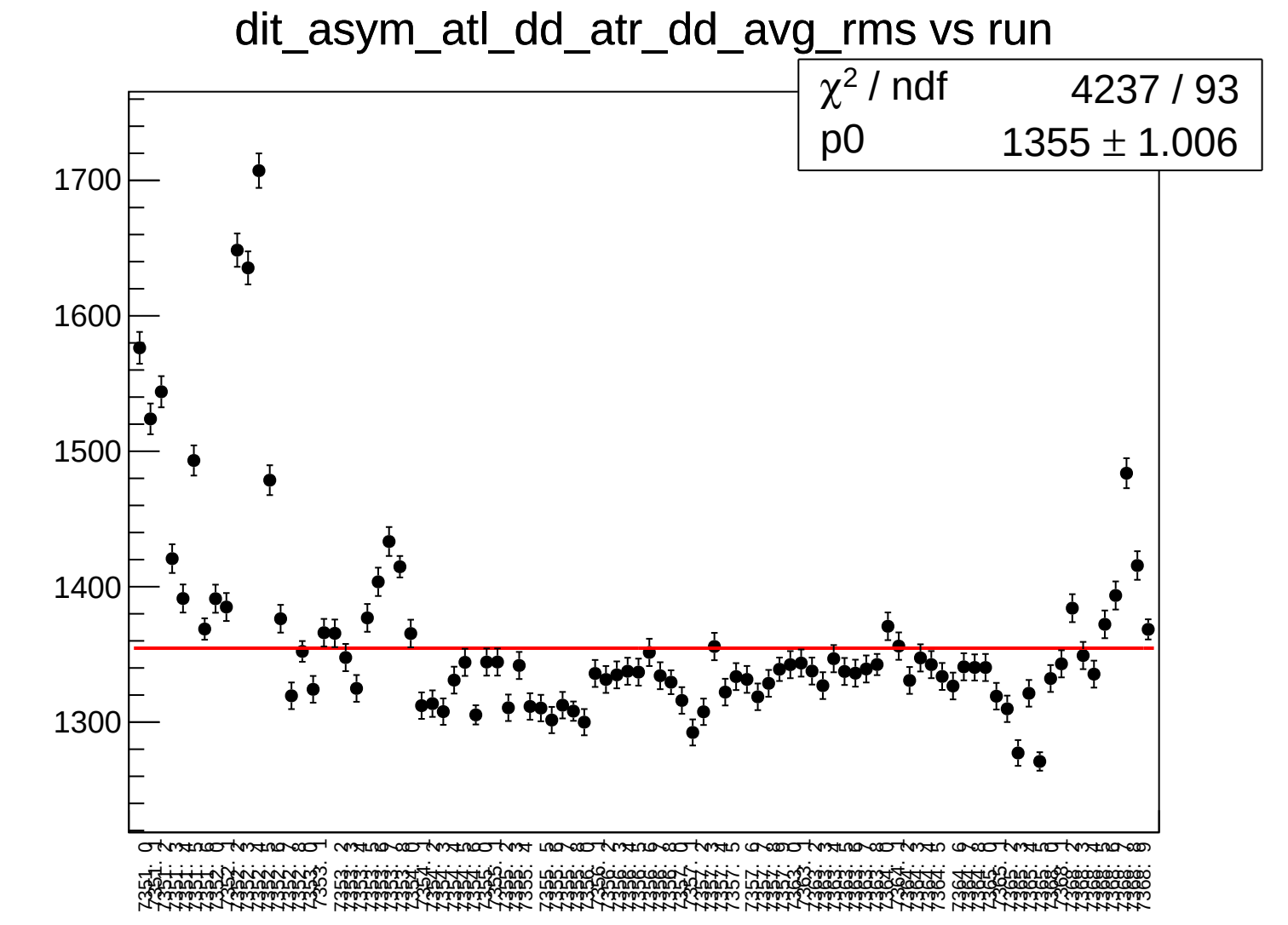

asym_atl_dd_atr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 76.07 / 93
p0 −5335 ± 5487
150
100
50
0
−50
−100
−150
−200
pull
Entries 94
Mean −105.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

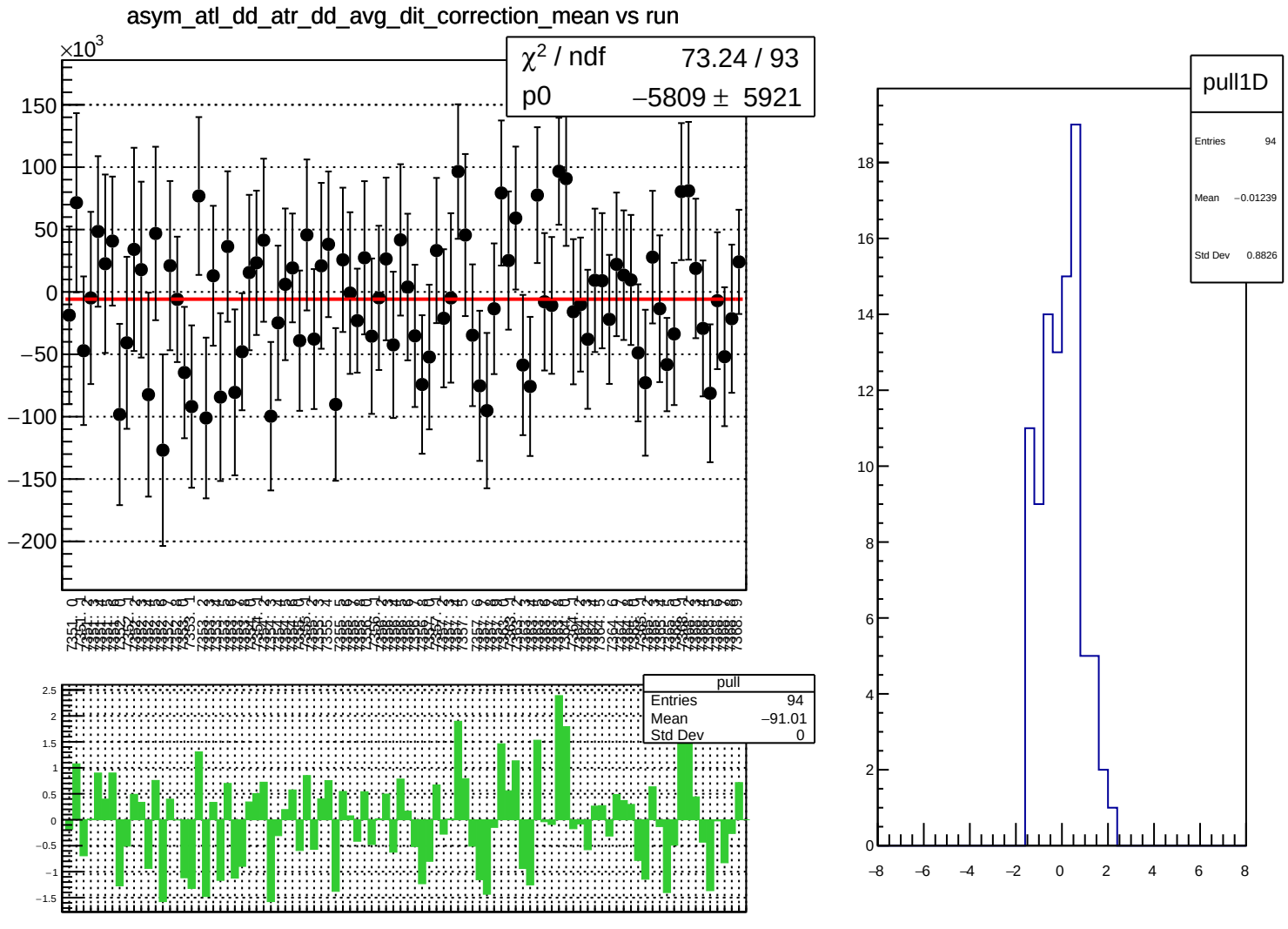

pull1D
Entries 94
Mean −0.01274
Std Dev 0.8995
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

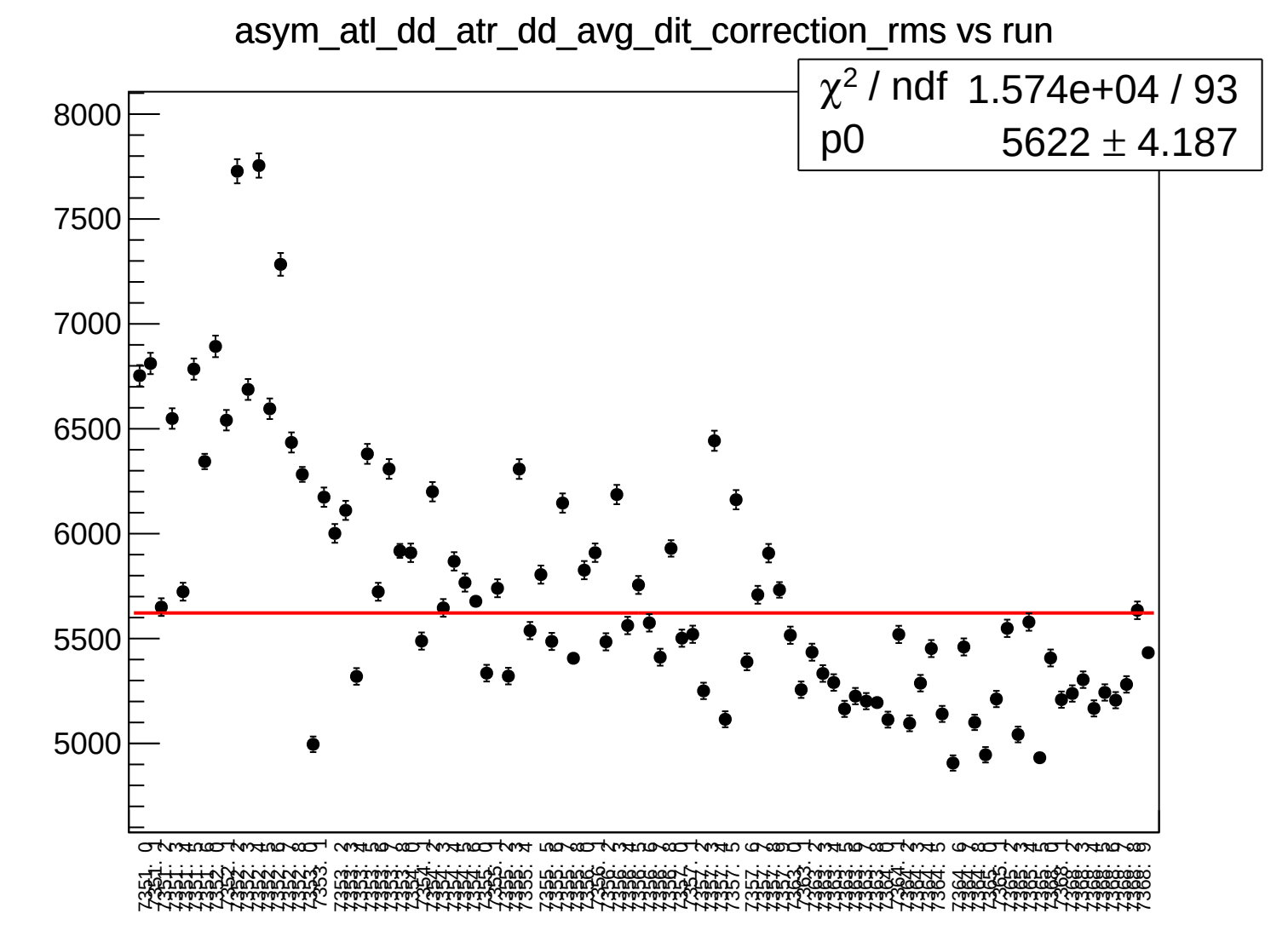

asym_atl_dd_atr_dd_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 1.576e+04 / 93
p0 5209 ± 3.88
7500
7000
6500
6000
5500
5000
4500

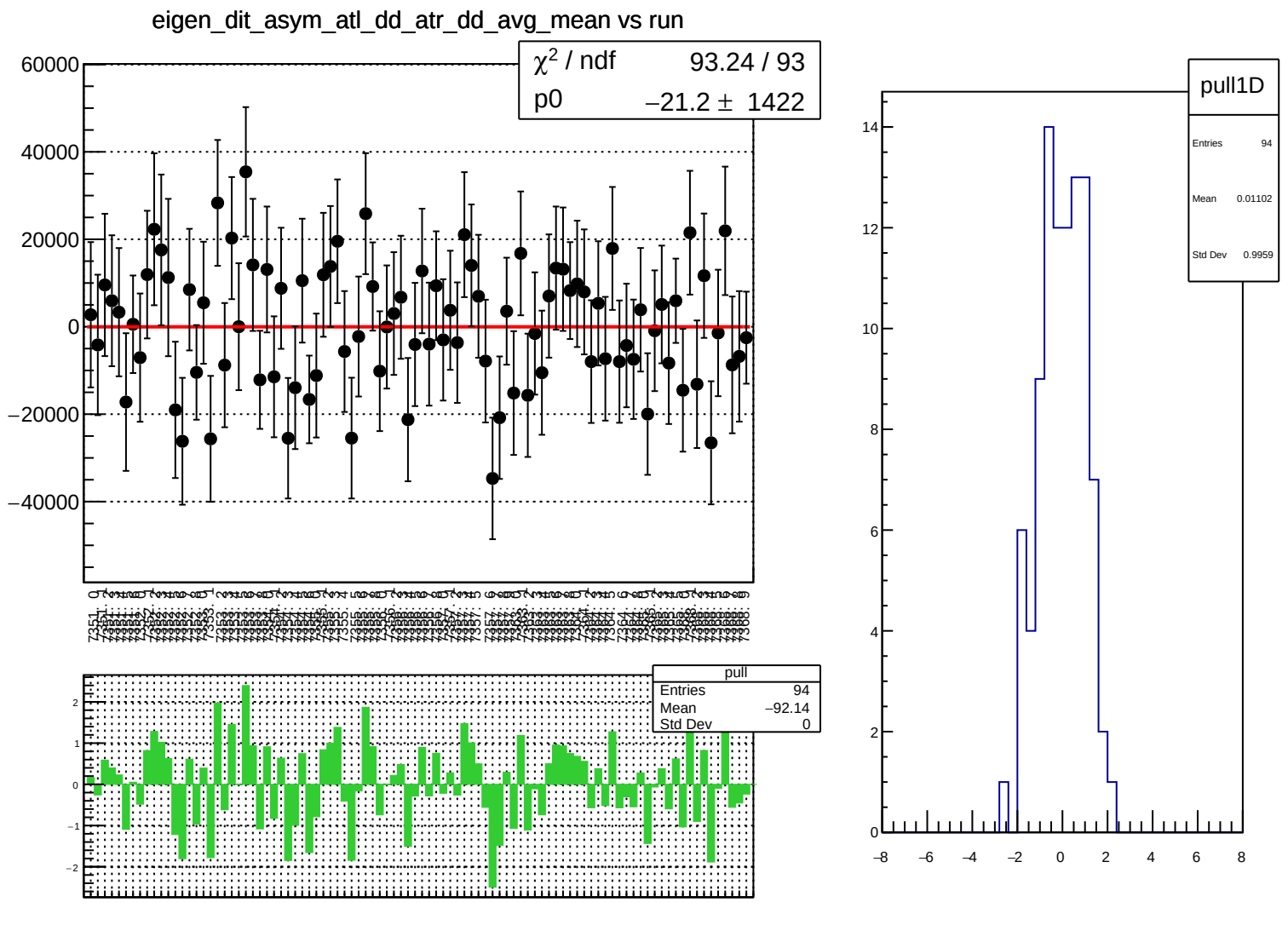

dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 93.24 / 93
p0 −21.17 ± 1422
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −92.14
Std Dev 0
2
1
0
−1
−2

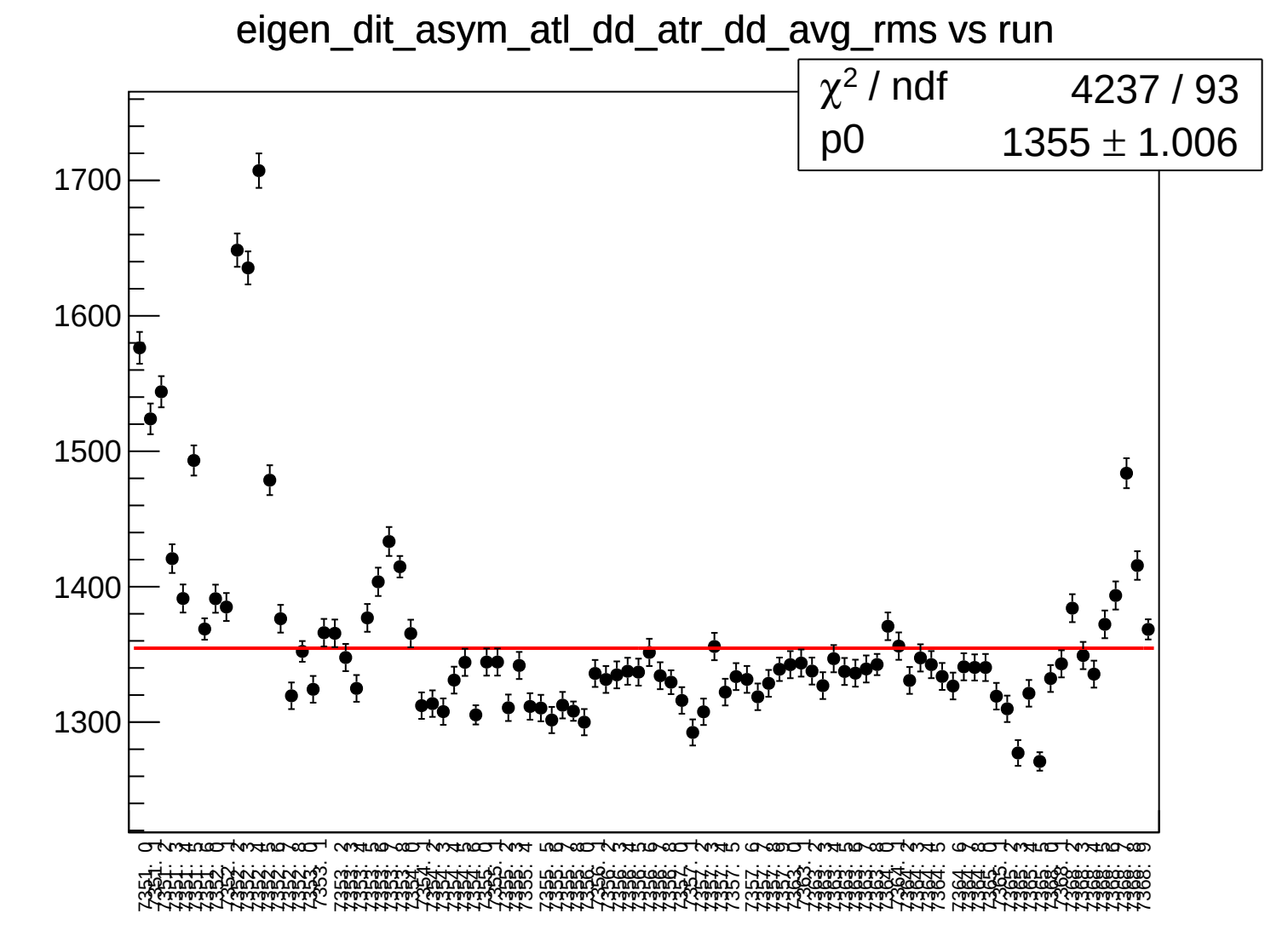

pull1D
Entries 94
Mean 0.01102
Std Dev 0.9959
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

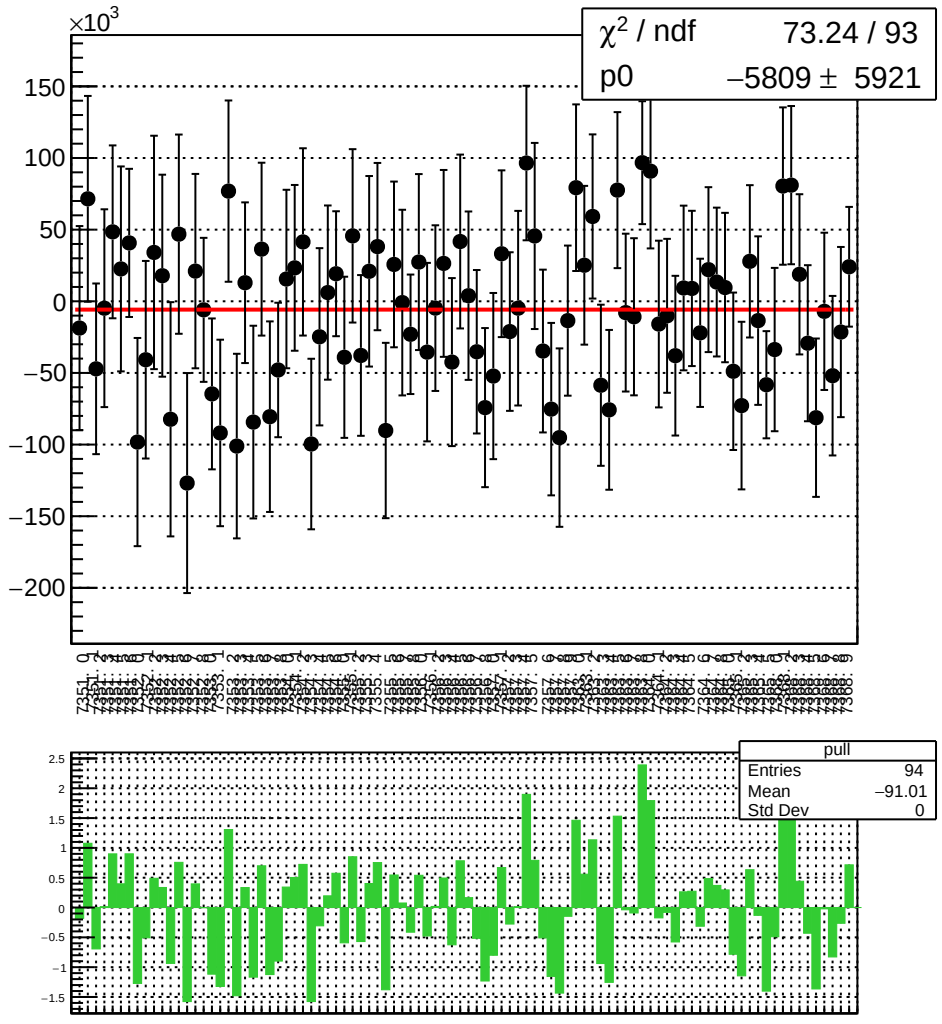

dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 4237 / 93
p0 1355 ± 1.006
1700
1600
1500
1400
1300

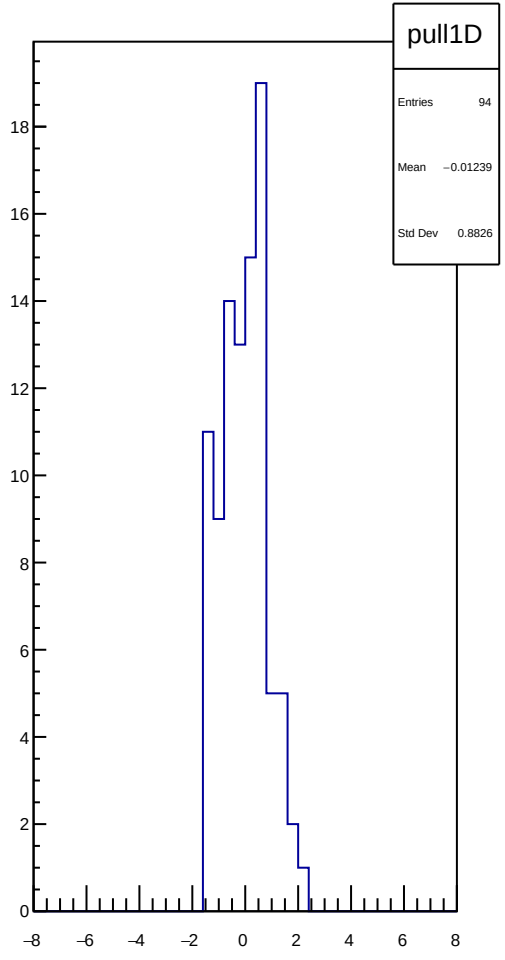

asym_atl_dd_atr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 73.24 / 93
p0 −5809 ± 5921
150
100
50
0
−50
−100
−150
−200
pull
Entries 94
Mean −91.01
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 94
Mean −0.01239
Std Dev 0.8826
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

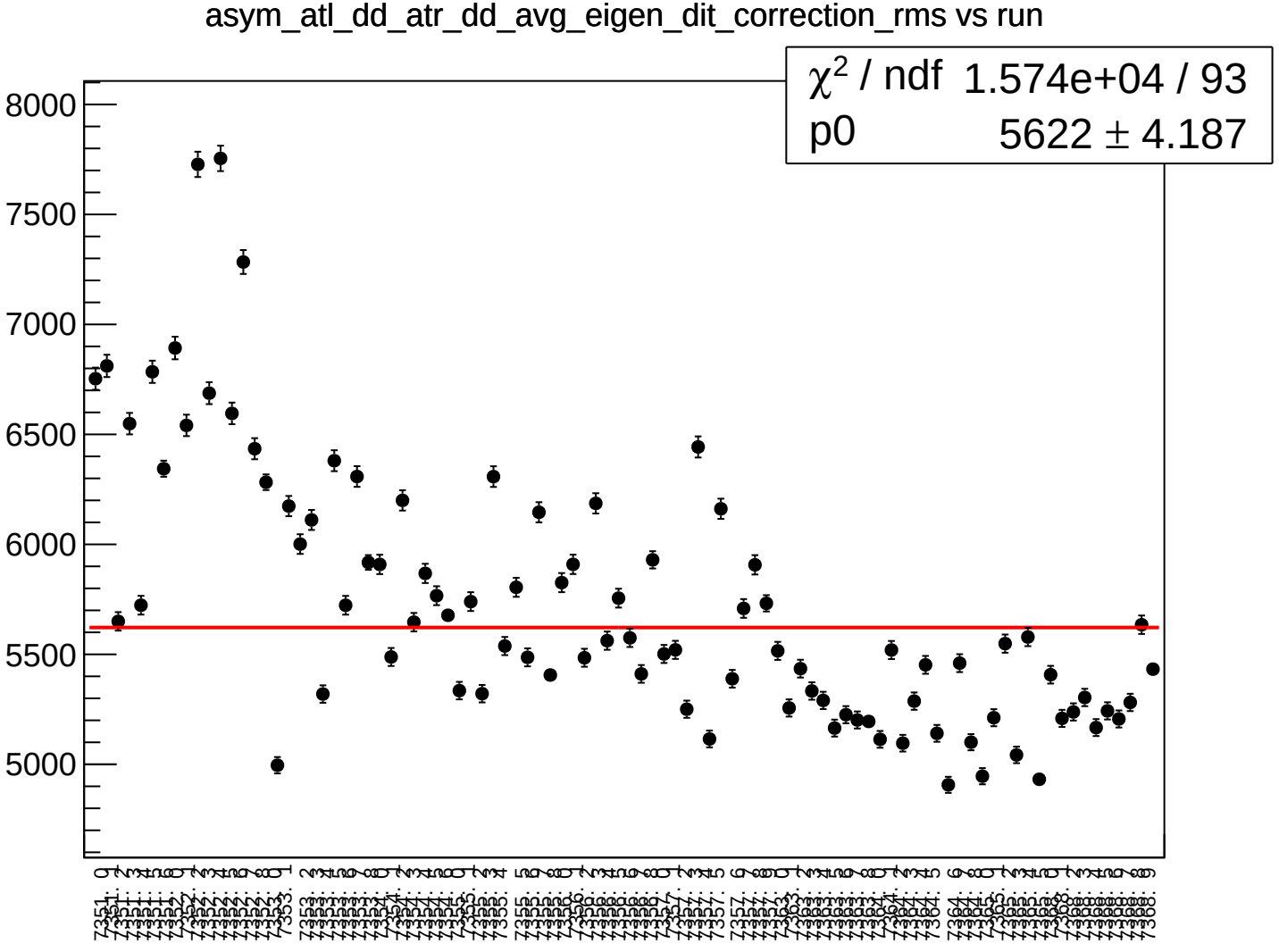

asym_atl_dd_atr_dd_avg_dit_correction_rms vs run
χ² / ndf 1.574e+04 / 93
p0 5622 ± 4.187
8000
7500
7000
6500
6000
5500
5000

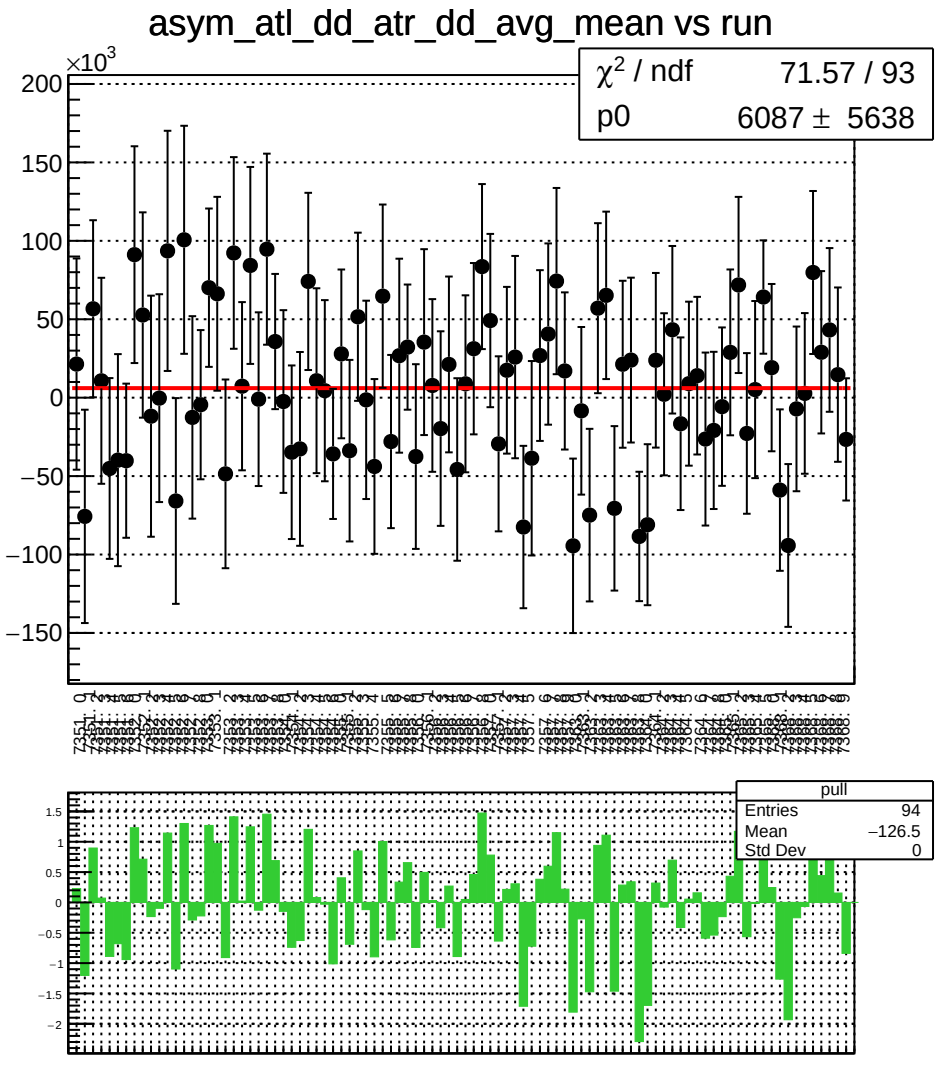

eigen_dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 93.24 / 93
p0 −21.2 ± 1422
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −92.14
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.01102
Std Dev 0.9959
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

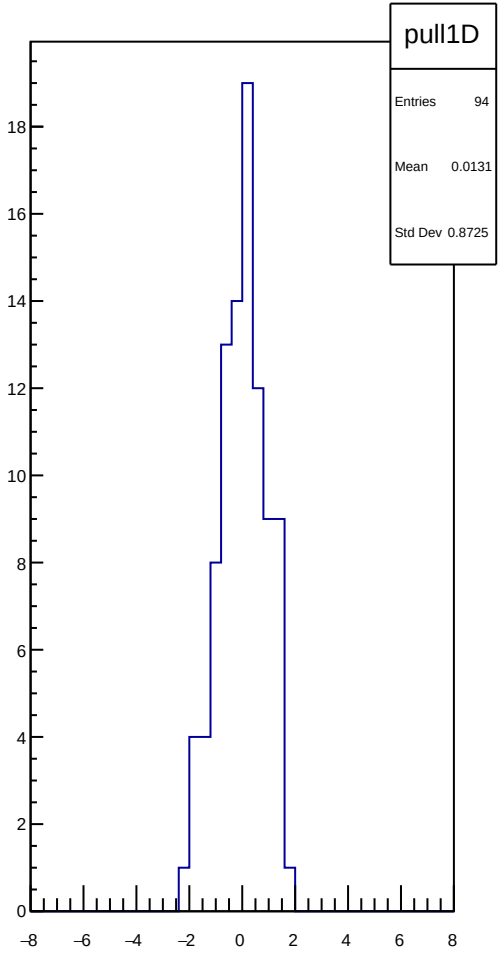

eigen_dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 4237 / 93
p0 1355 ± 1.006
1700
1600
1500
1400
1300

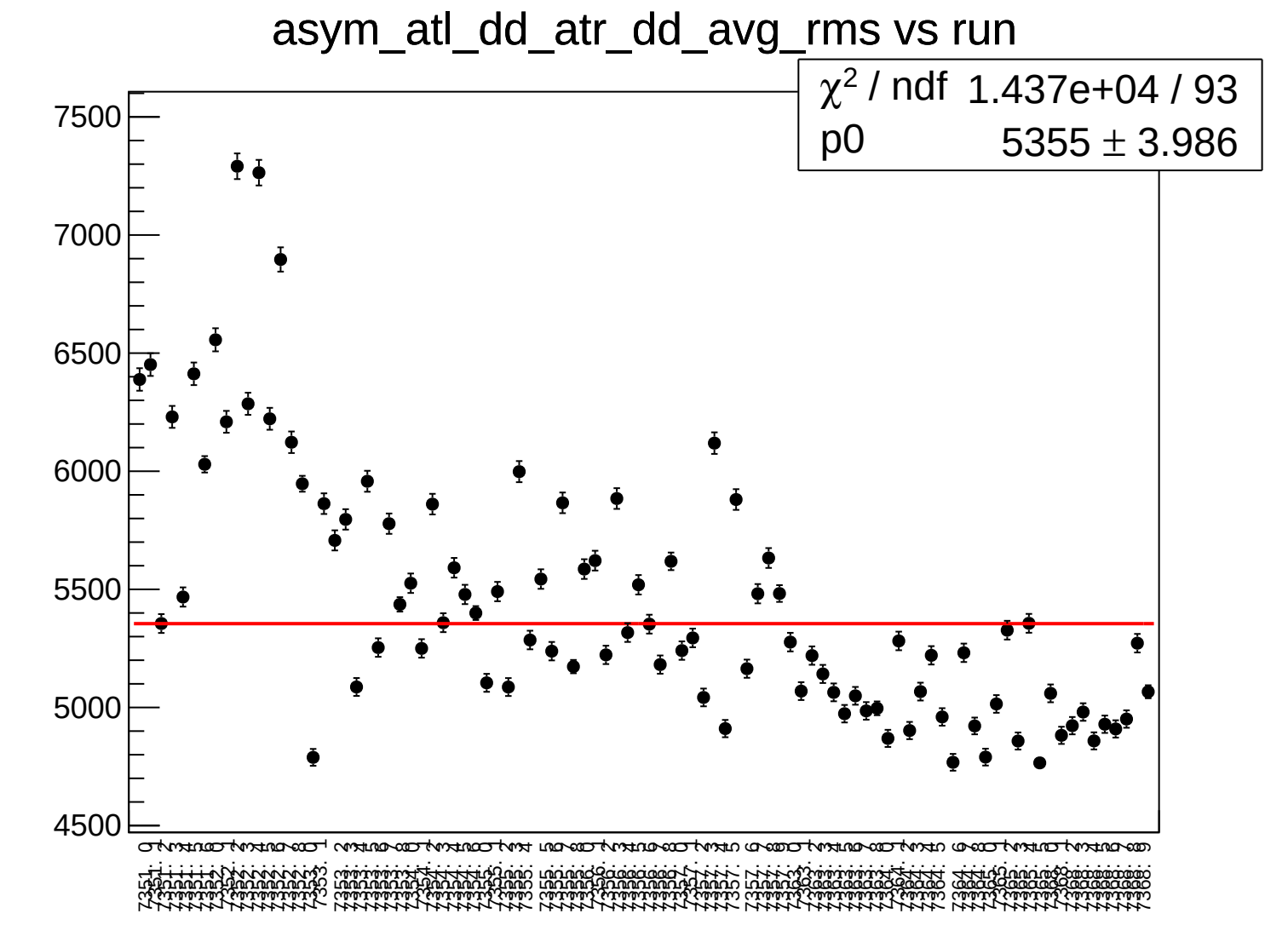

asym_atl_dd_atr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 73.24 / 93
p0 −5809 ± 5921
150
100
50
0
−50
−100
−150
−200
pull
Entries 94
Mean −91.01
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

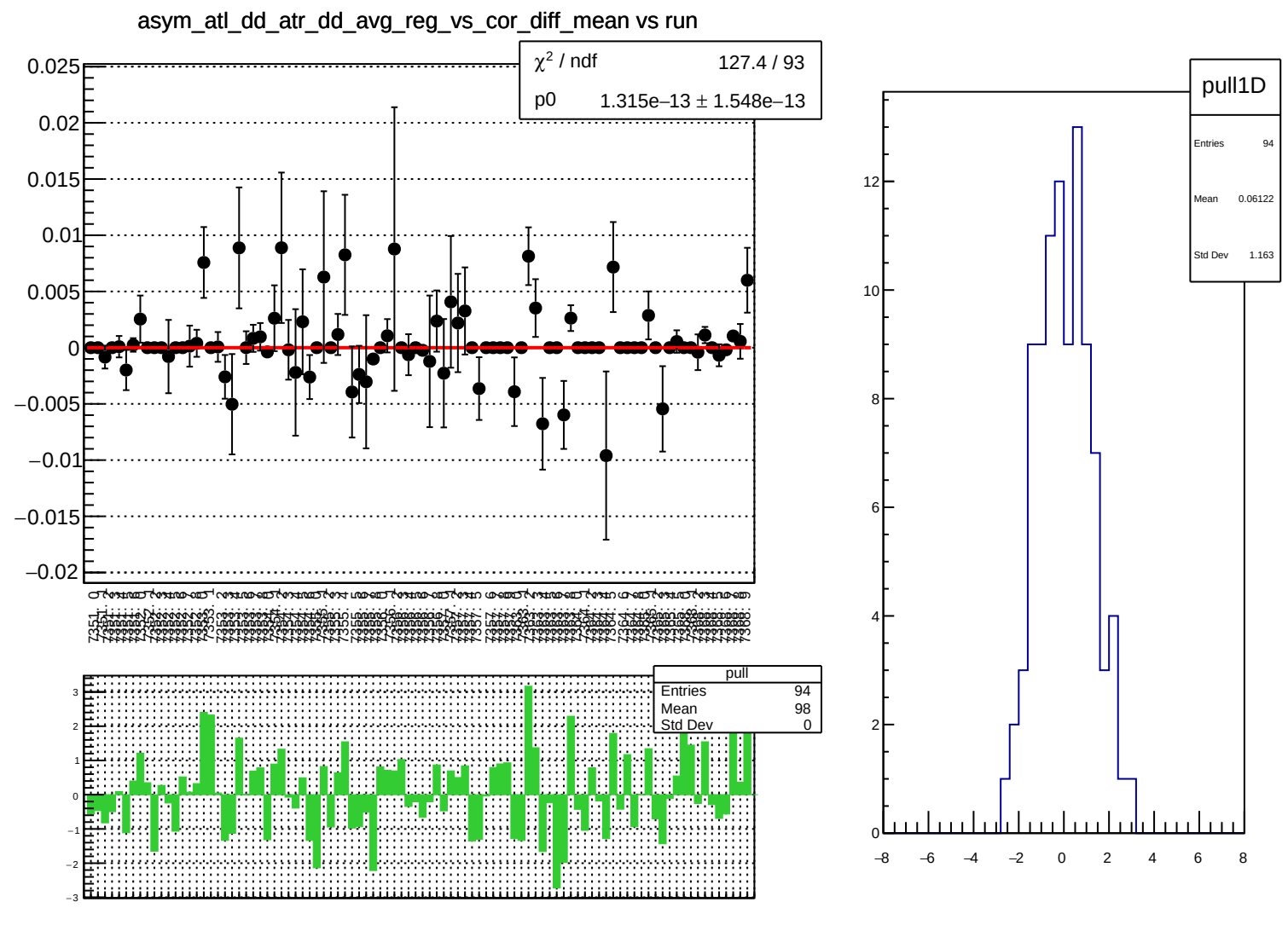

pull1D
Entries 94
Mean −0.01239
Std Dev 0.8826
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

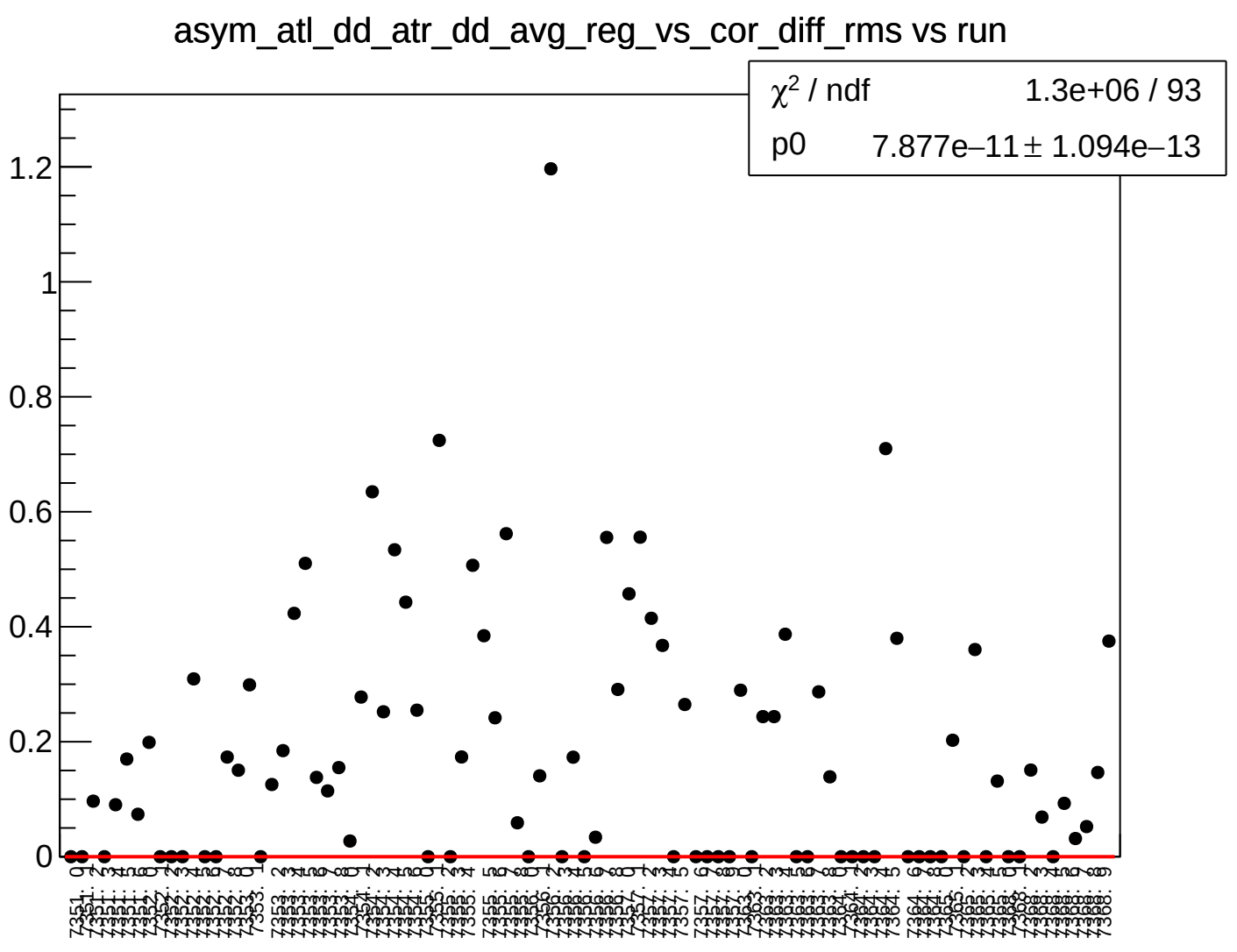

asym_atl_dd_atr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.574e+04 / 93
p0 5622 ± 4.187
8000
7500
7000
6500
6000
5500
5000

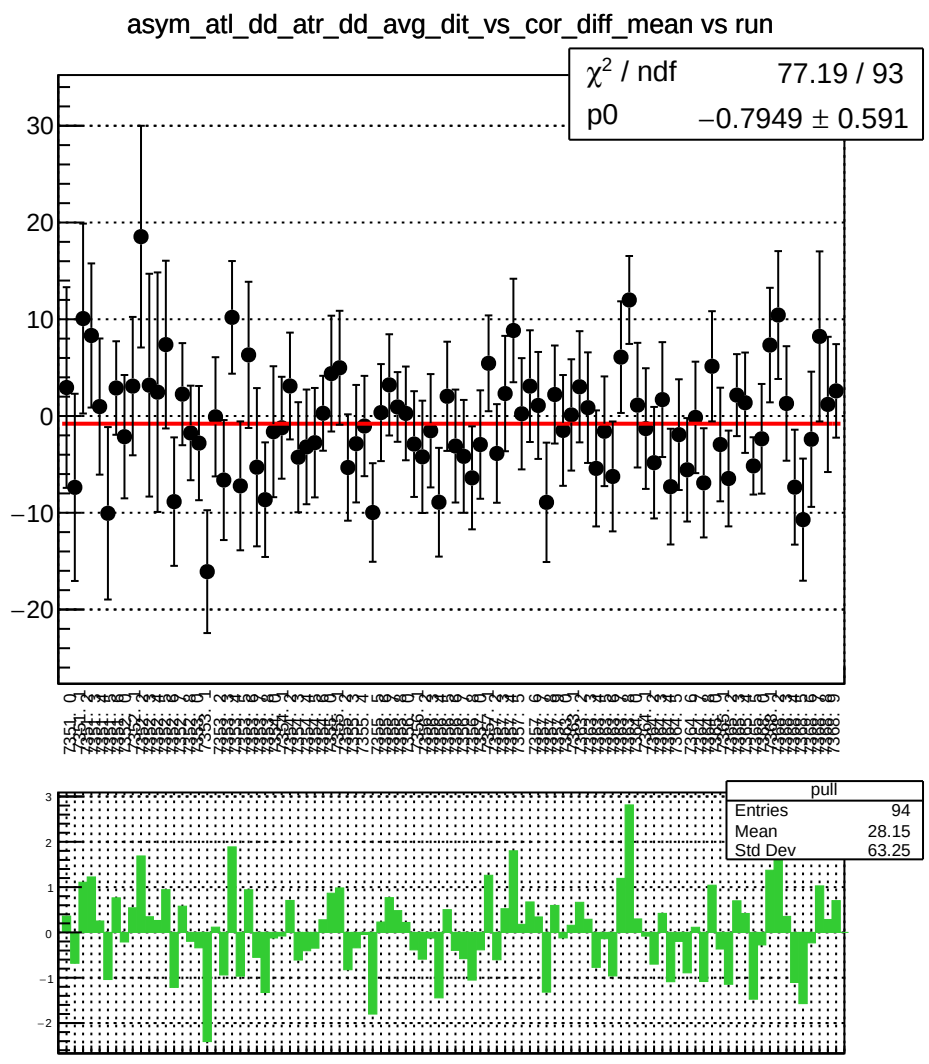

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 71.57 / 93
p0 6087 ± 5638
200
150
100
50
0
−50
−100
−150
pull
Entries 94
Mean −126.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

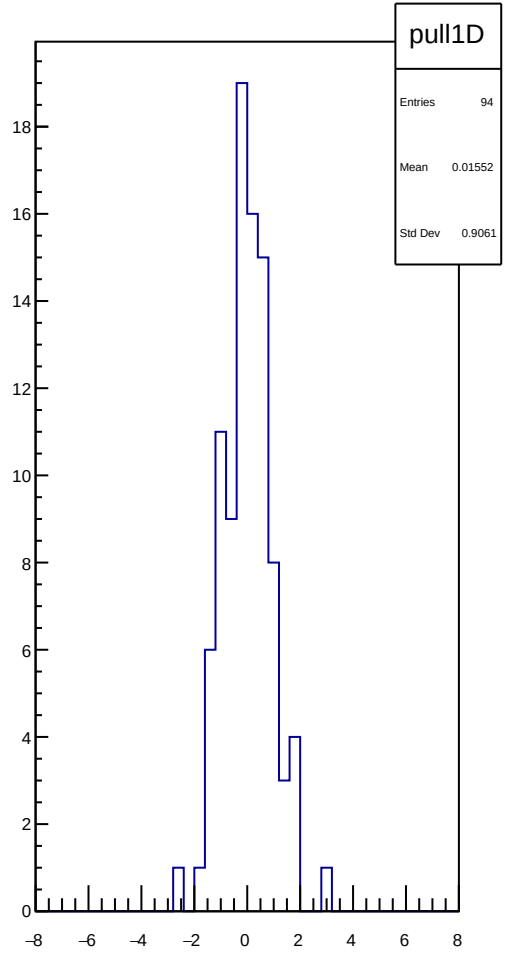

pull1D
Entries 94
Mean 0.0131
Std Dev 0.8725
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

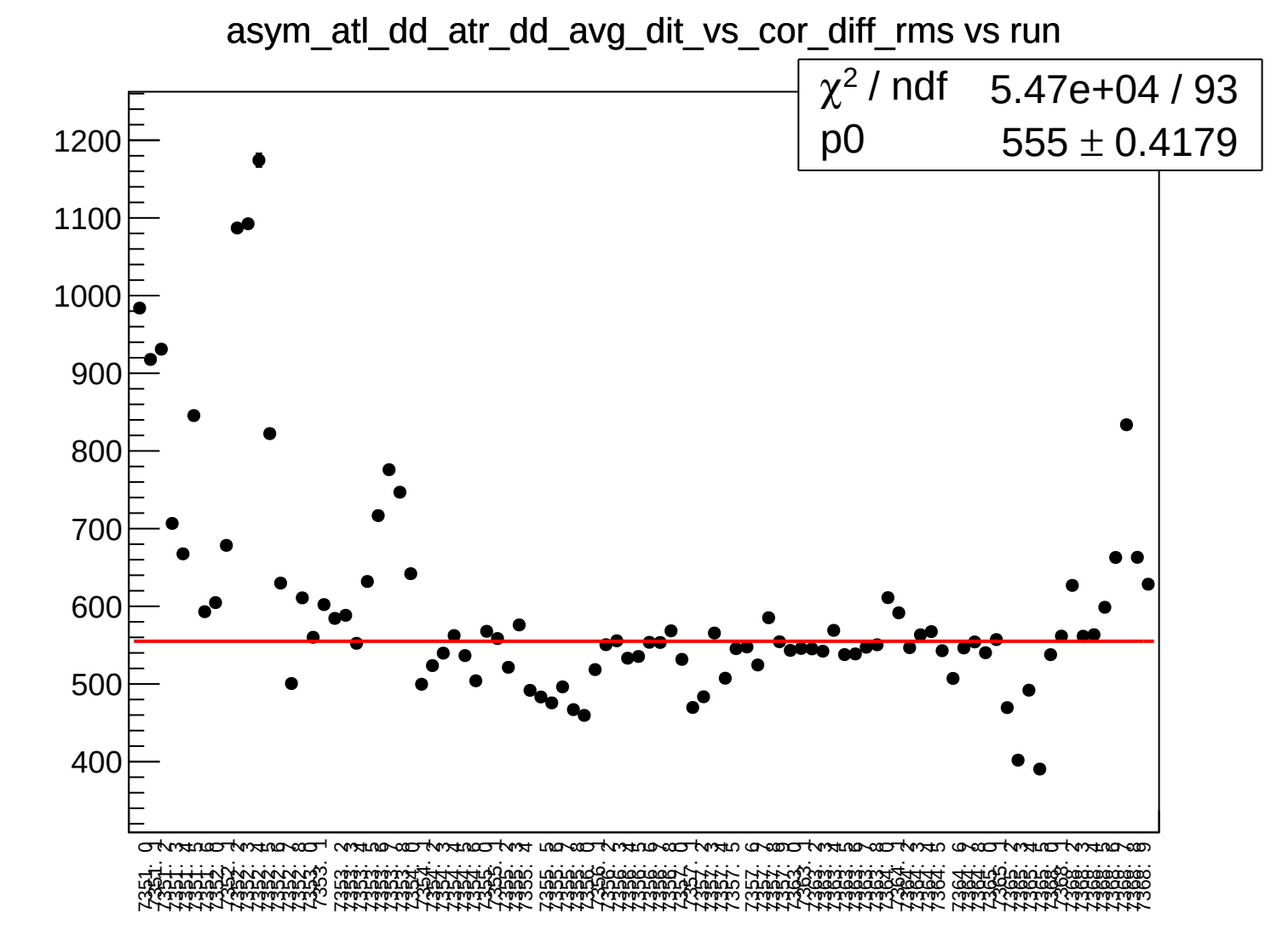

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 1.437e+04 / 93
p0 5355 ± 3.986
7500
7000
6500
6000
5500
5000
4500

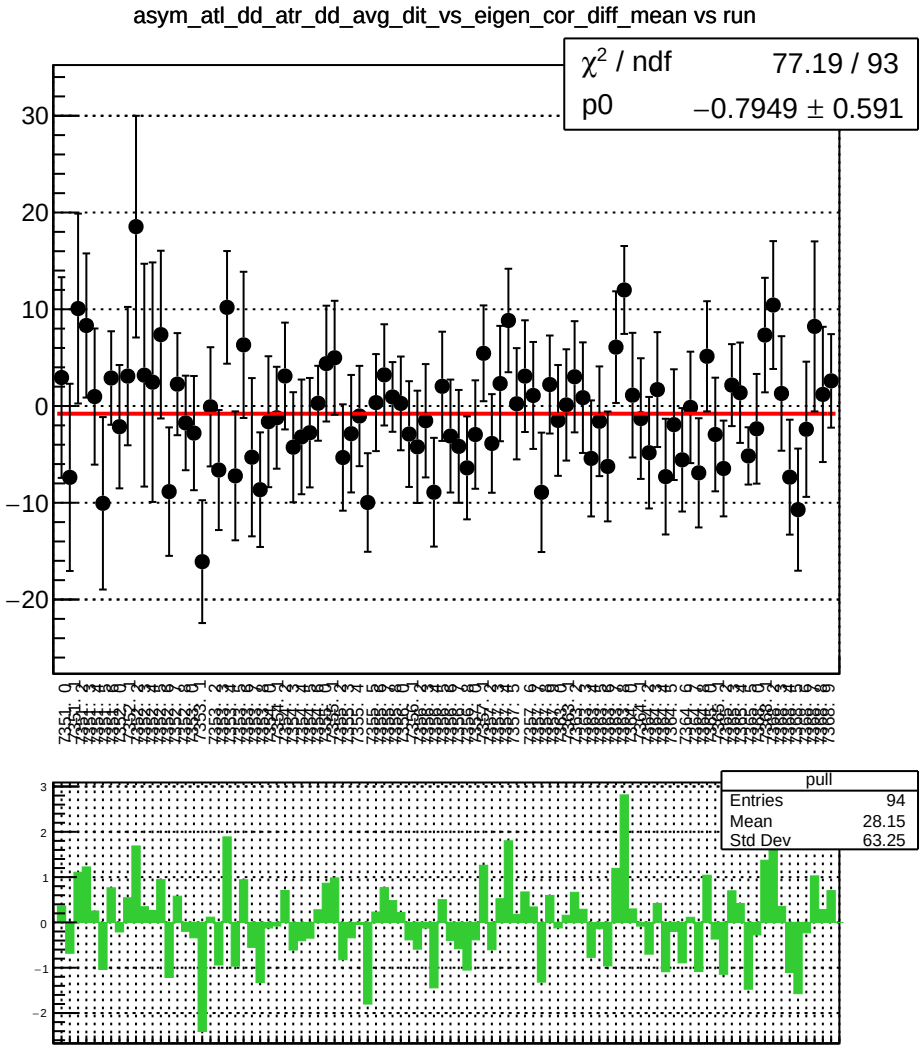

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 127.4 / 93
p0 1.315e−13 ± 1.548e−13
0.025
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 94
Mean 98
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.06122
Std Dev 1.163
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

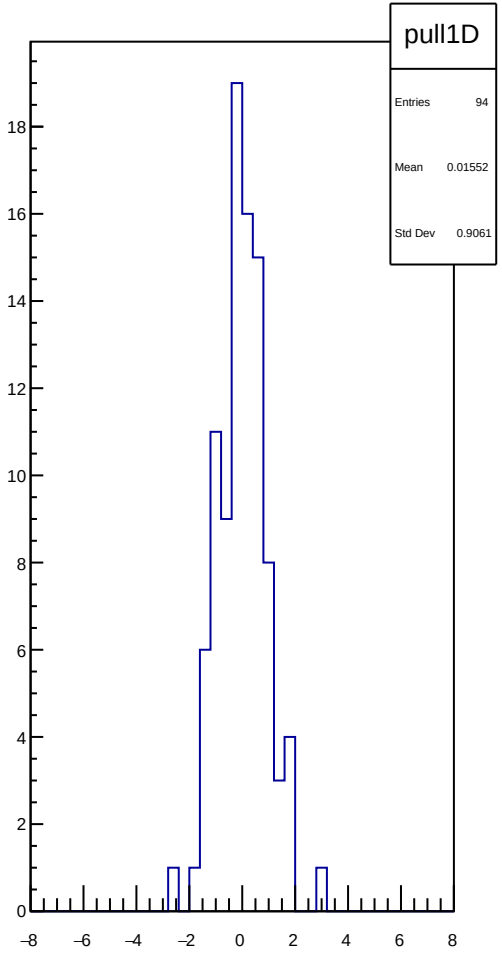

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.3e+06 / 93
p0 7.877e−11 ± 1.094e−13
1.2
1
0.8
0.6
0.4
0.2
0

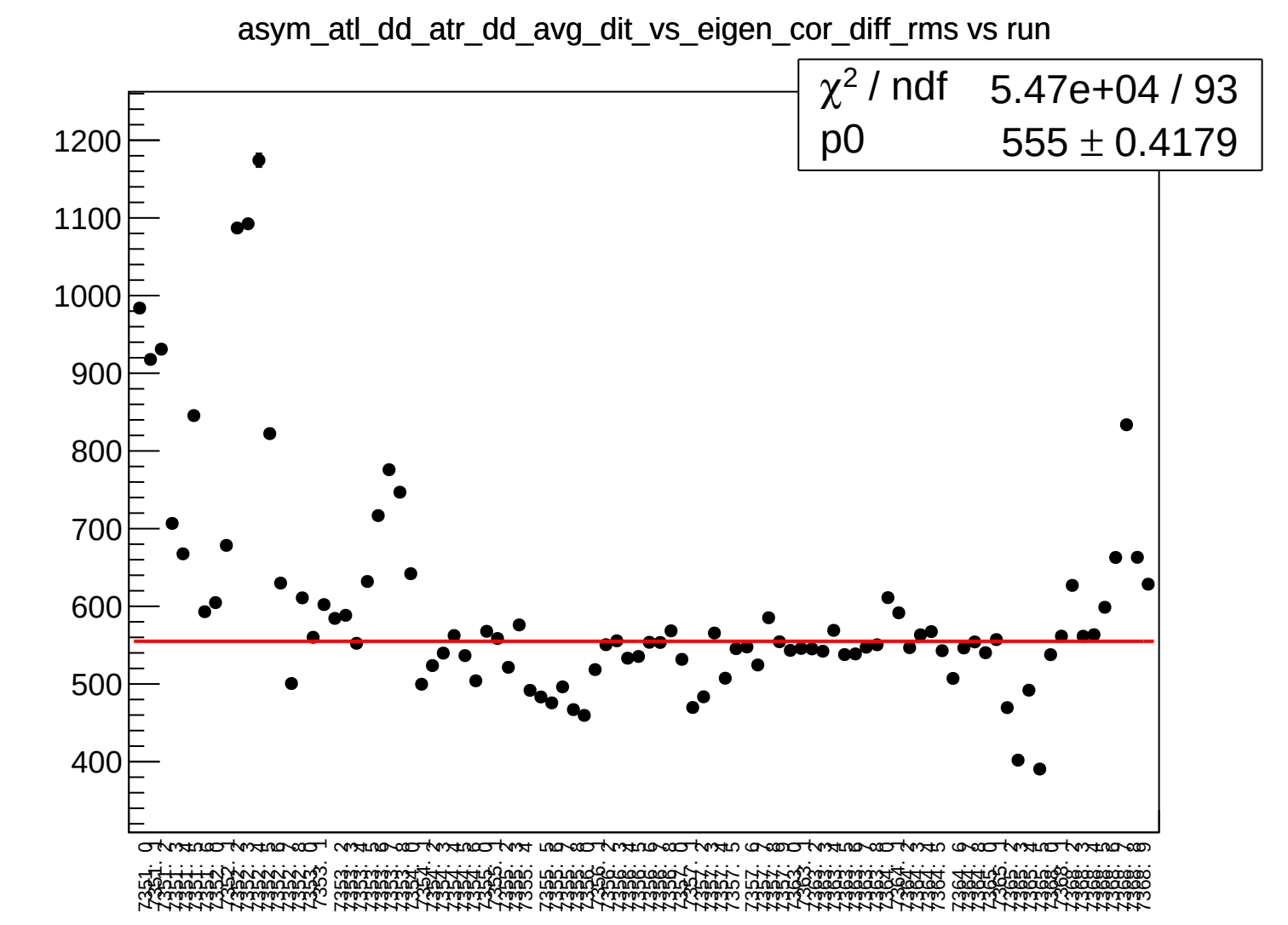

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 77.19 / 93
p0 −0.7949 ± 0.591
pull
Entries 94
Mean 28.15
Std Dev 63.25

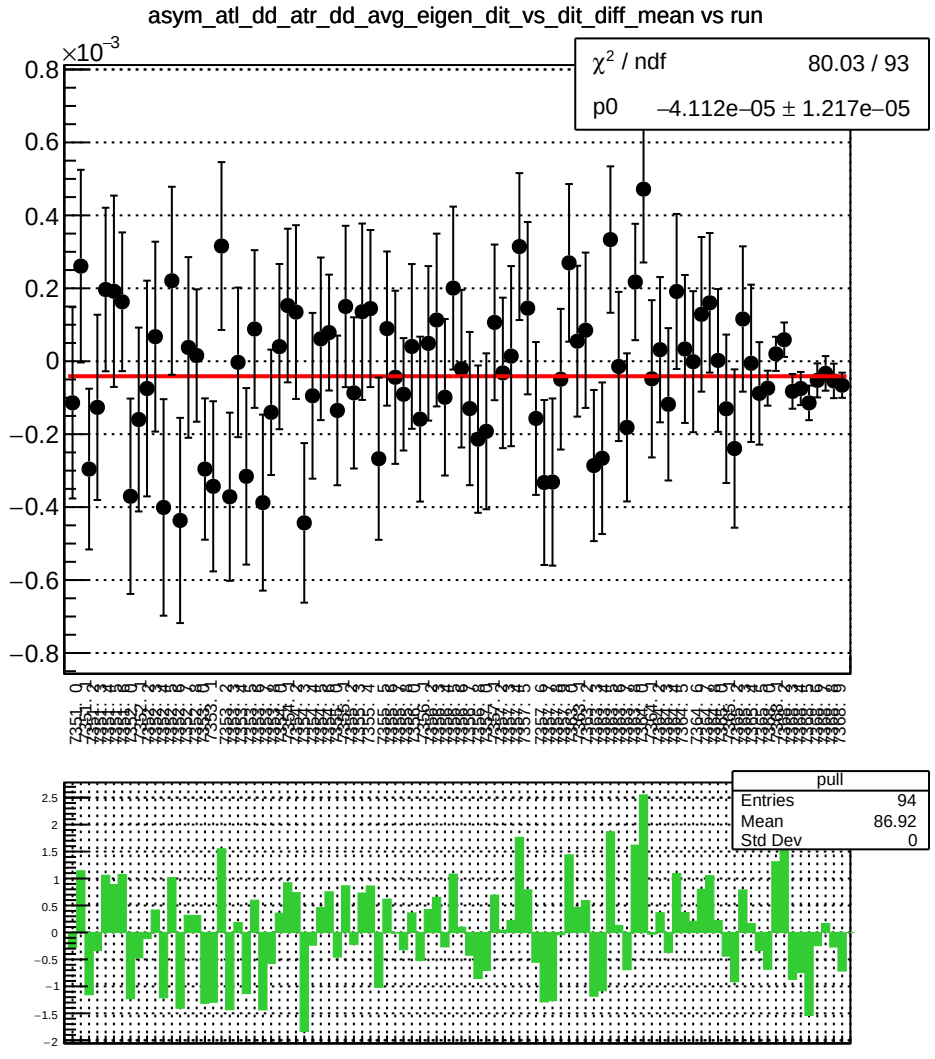

pull1D
Entries 94
Mean 0.01552
Std Dev 0.9061

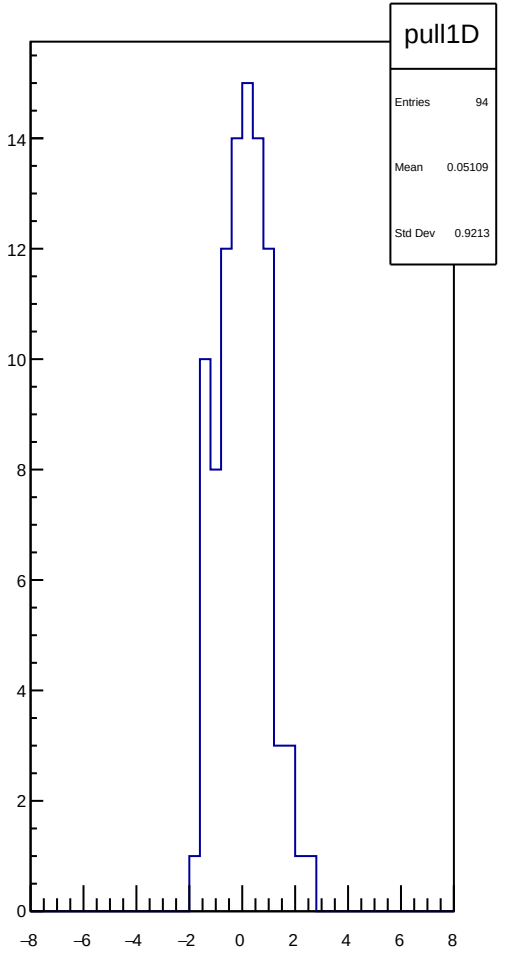

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.47e+04 / 93
p0 555 ± 0.4179
1200
1100
1000
900
800
700
600
500
400

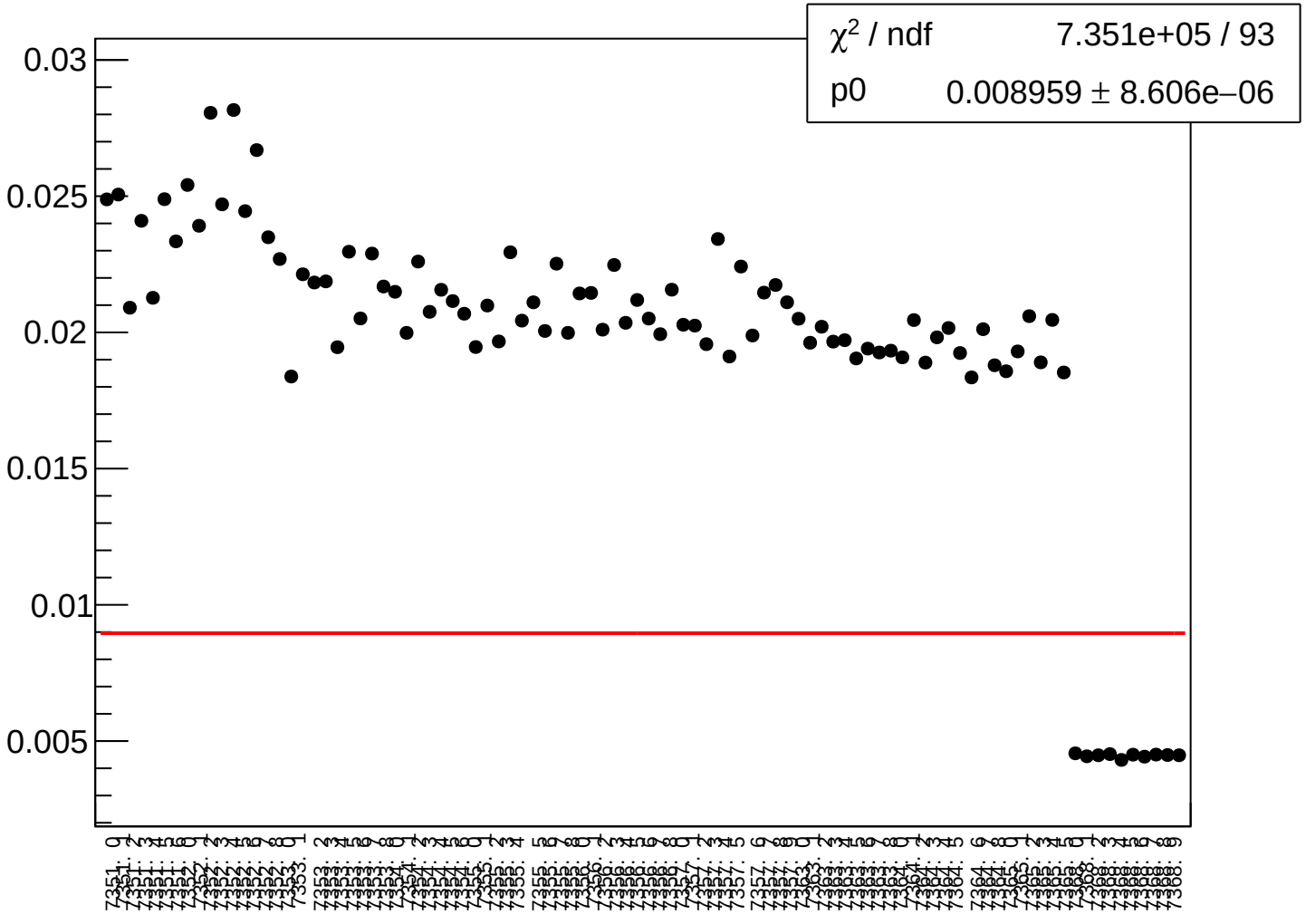

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.19 / 93
p0 −0.7949 ± 0.591
pull
Entries 94
Mean 28.15
Std Dev 63.25

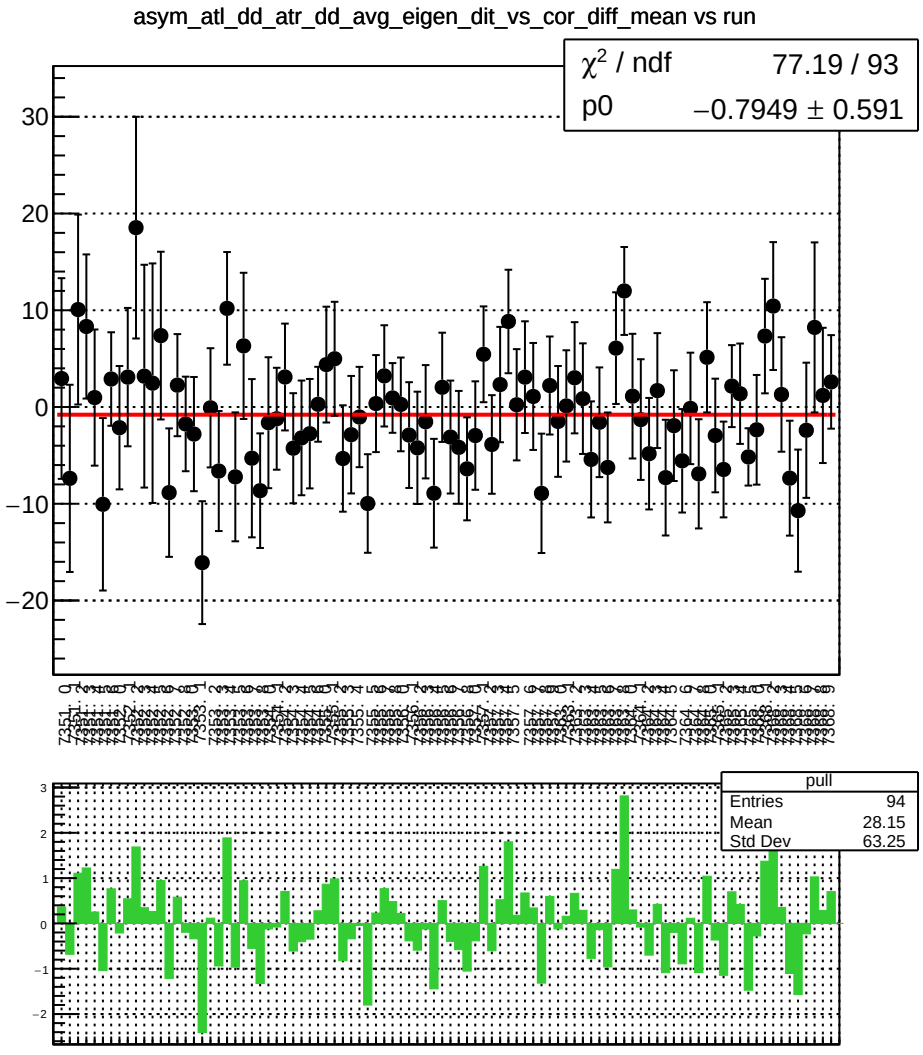

pull1D
Entries 94
Mean 0.01552
Std Dev 0.9061

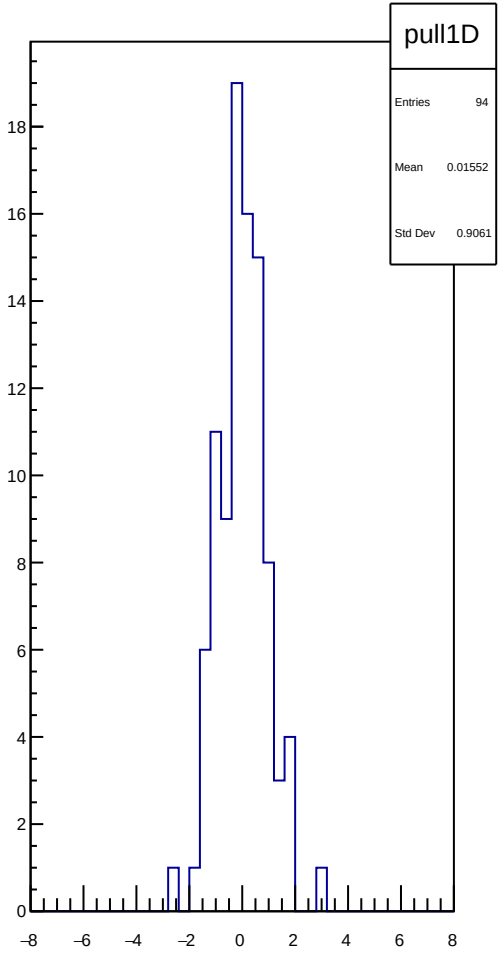

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.47e+04 / 93
p0 555 ± 0.4179
1200
1100
1000
900
800
700
600
500
400

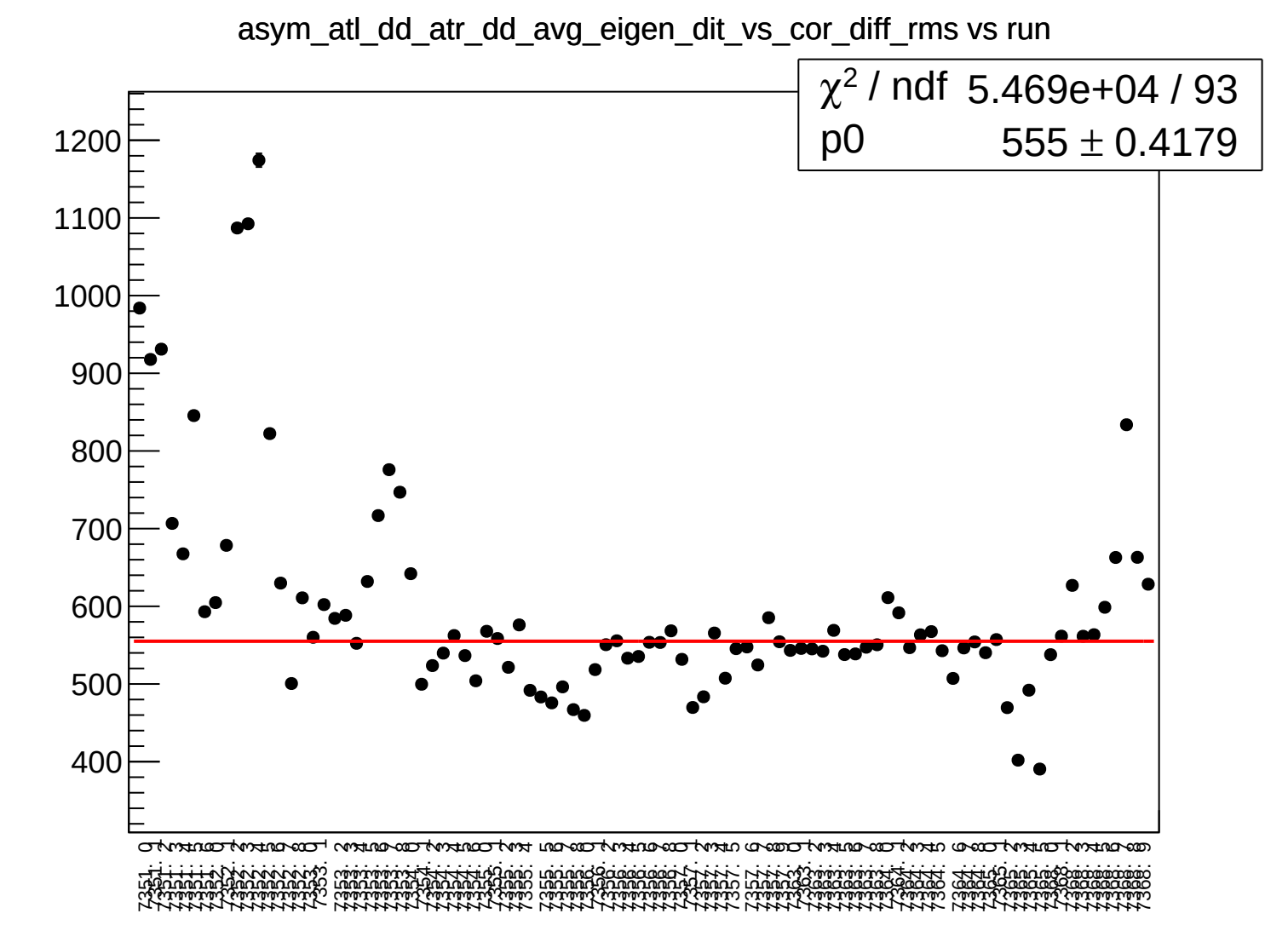

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 80.03 / 93
p0 −4.112e−05 ± 1.217e−05
pull
Entries 94
Mean 86.92
Std Dev 0

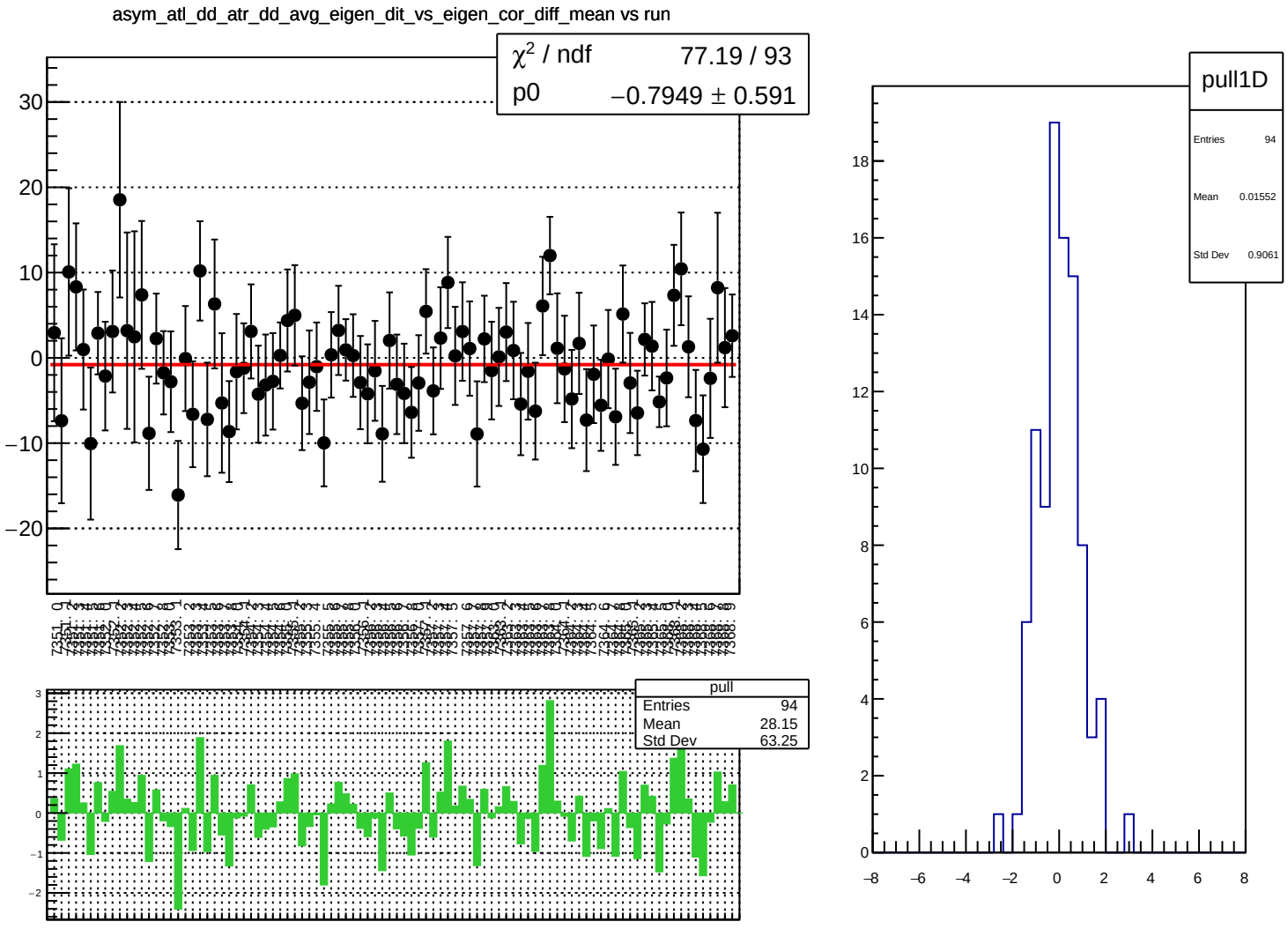

pull1D
Entries 94
Mean 0.05109
Std Dev 0.9213

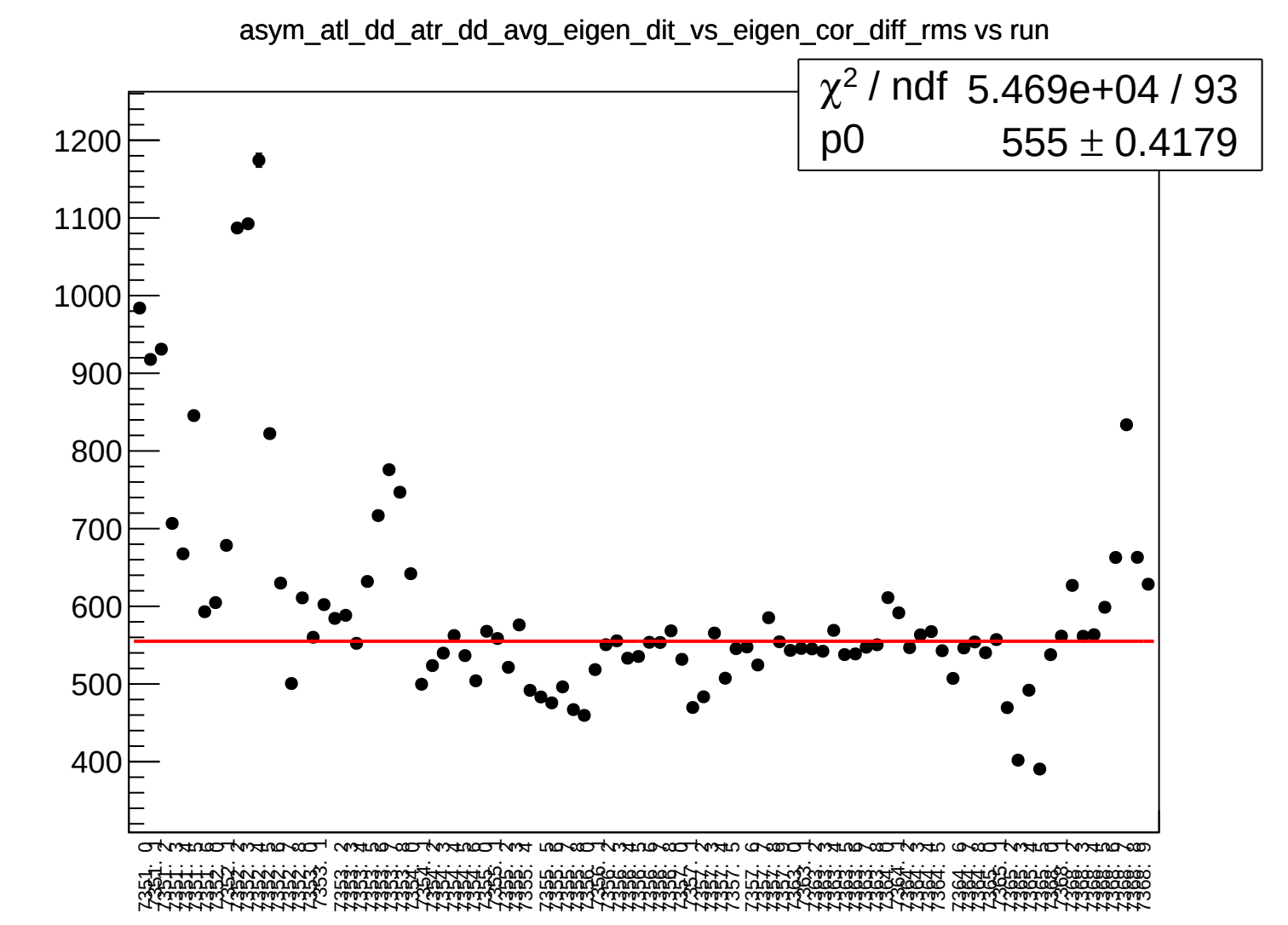

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.351e+05 / 93
p0 0.008959 ± 8.606e−06
0.03
0.025
0.02
0.015
0.01
0.005

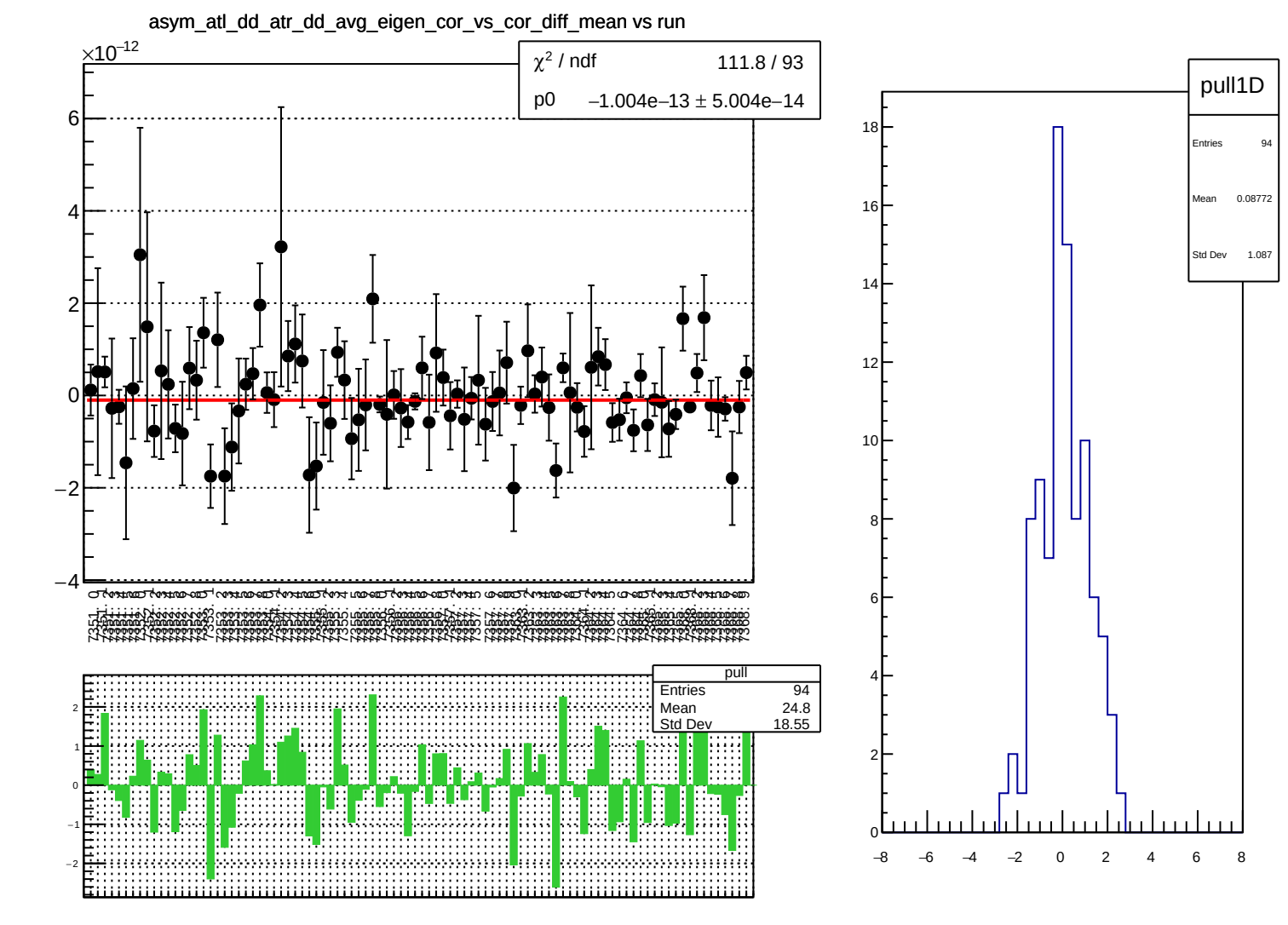

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.19 / 93
p0 −0.7949 ± 0.591
pull
Entries 94
Mean 28.15
Std Dev 63.25

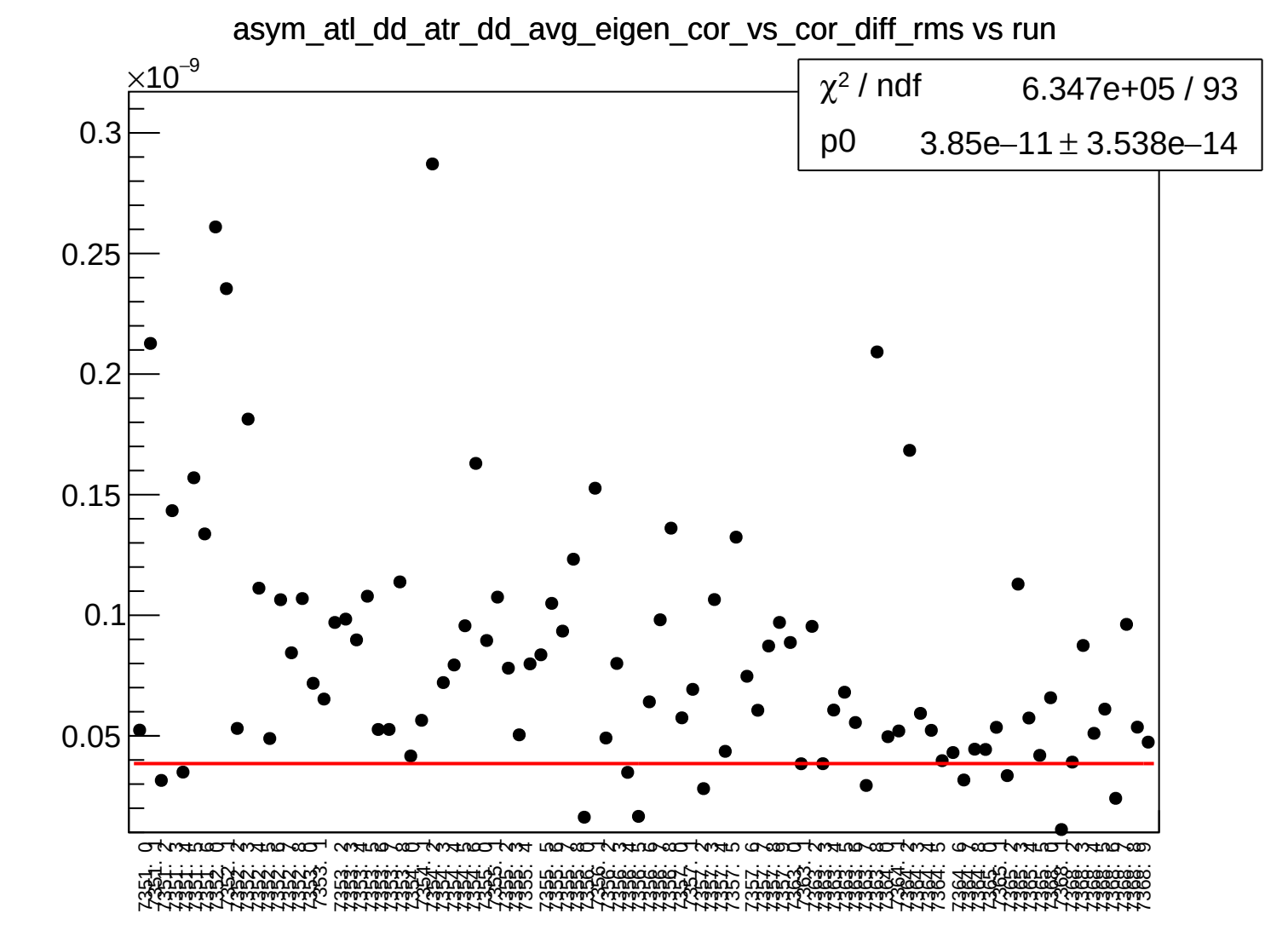

pull1D
Entries 94
Mean 0.01552
Std Dev 0.9061

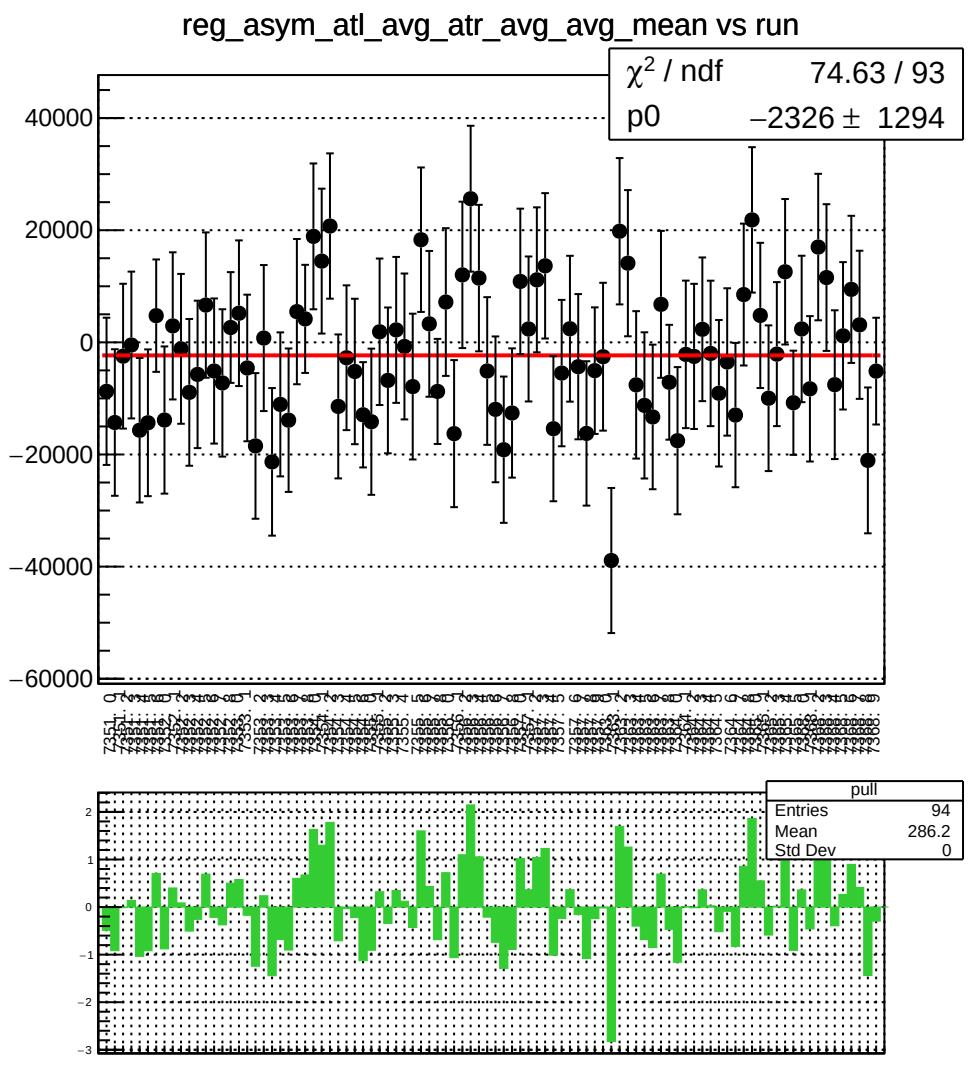

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.469e+04 / 93
p0 555 ± 0.4179
1200
1100
1000
900
800
700
600
500
400

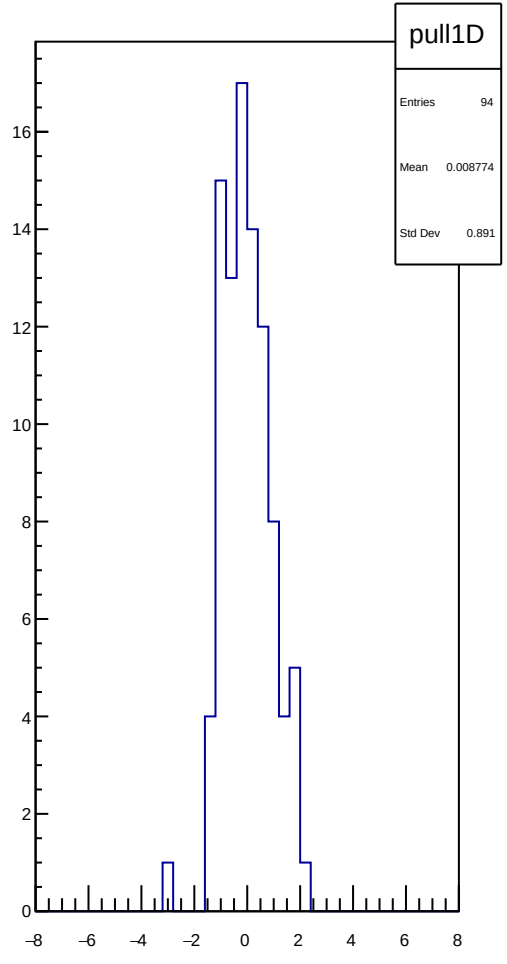

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.19 / 93
p0 −0.7949 ± 0.591
pull
Entries 94
Mean 28.15
Std Dev 63.25
pull1D
Entries 94
Mean 0.01552
Std Dev 0.9061

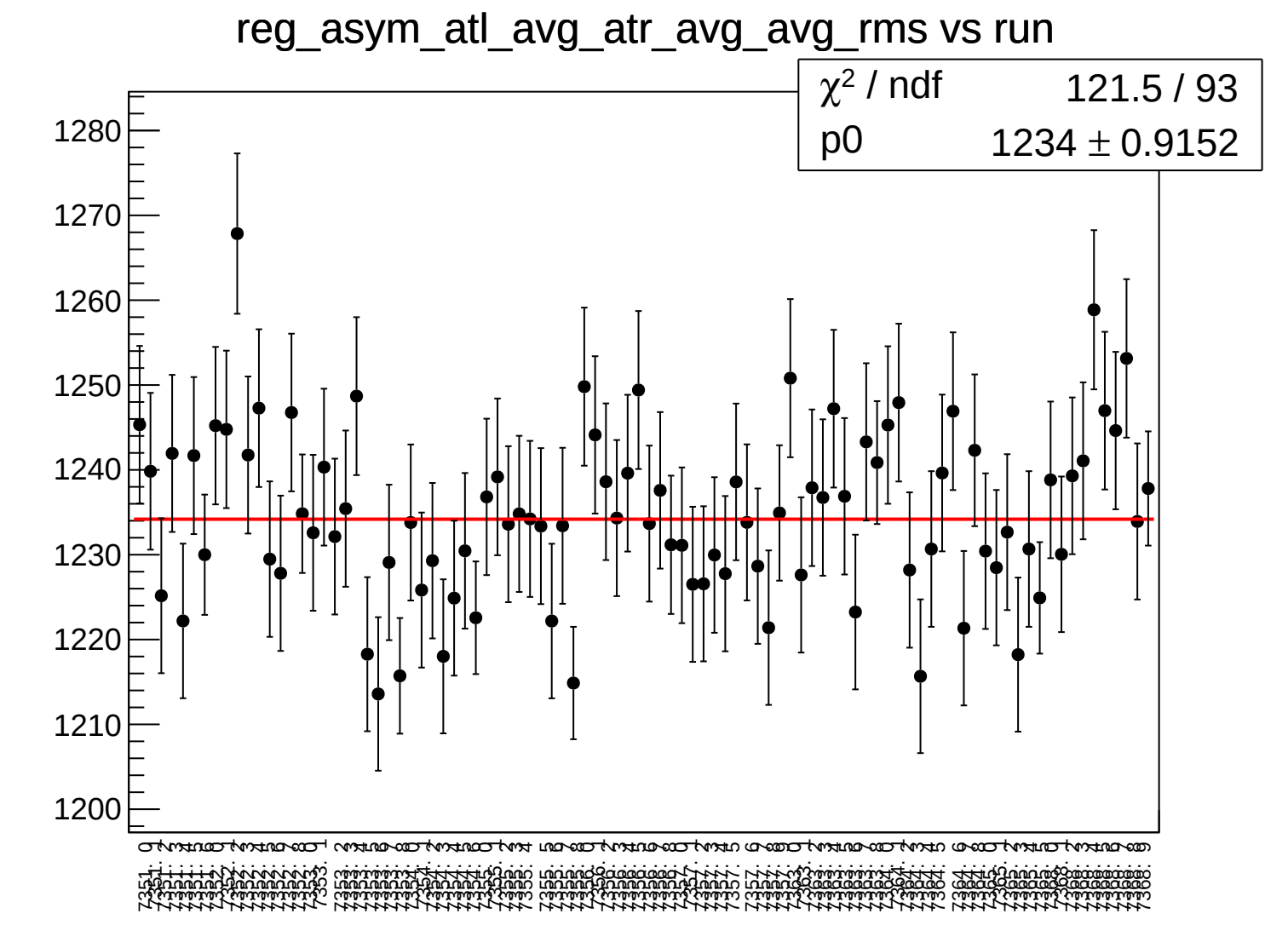

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.469e+04 / 93
p0 555 ± 0.4179
1200
1100
1000
900
800
700
600
500
400

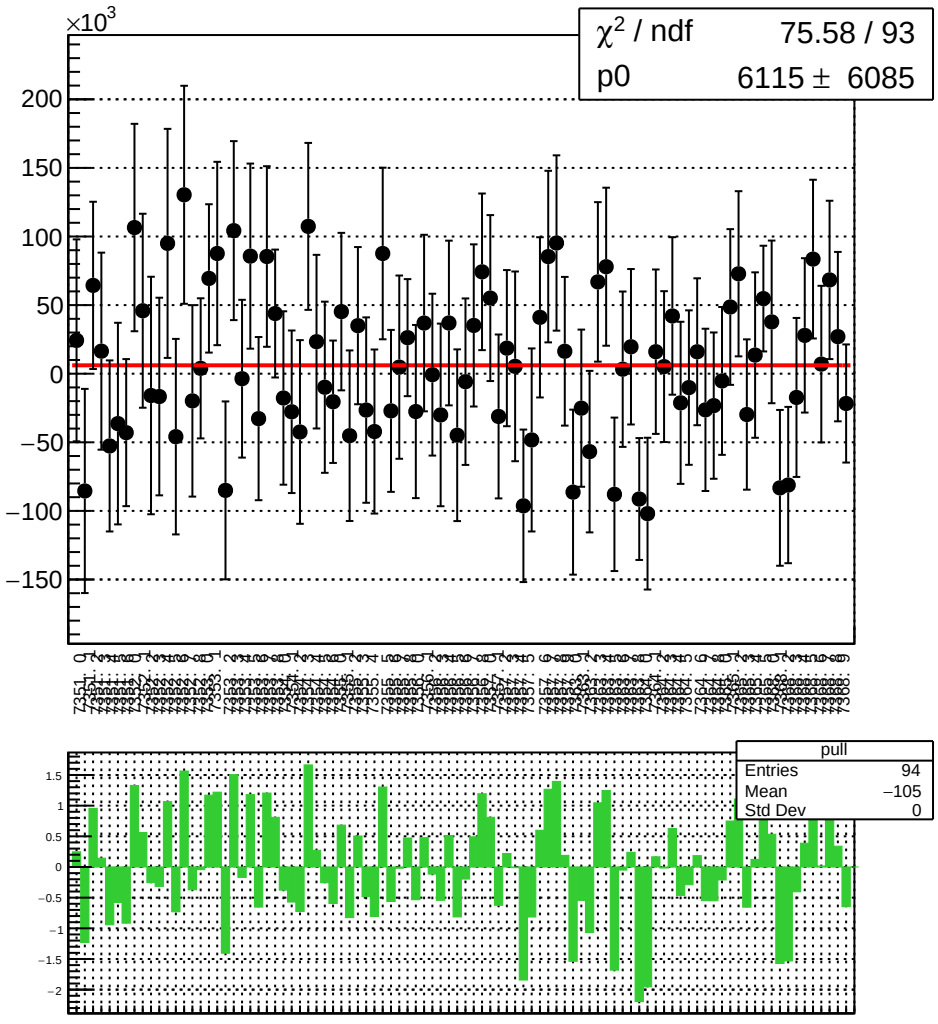

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 111.8 / 93
p0 −1.004e−13 ± 5.004e−14
pull
Entries 94
Mean 24.8
Std Dev 18.55
pull1D
Entries 94
Mean 0.08772
Std Dev 1.087

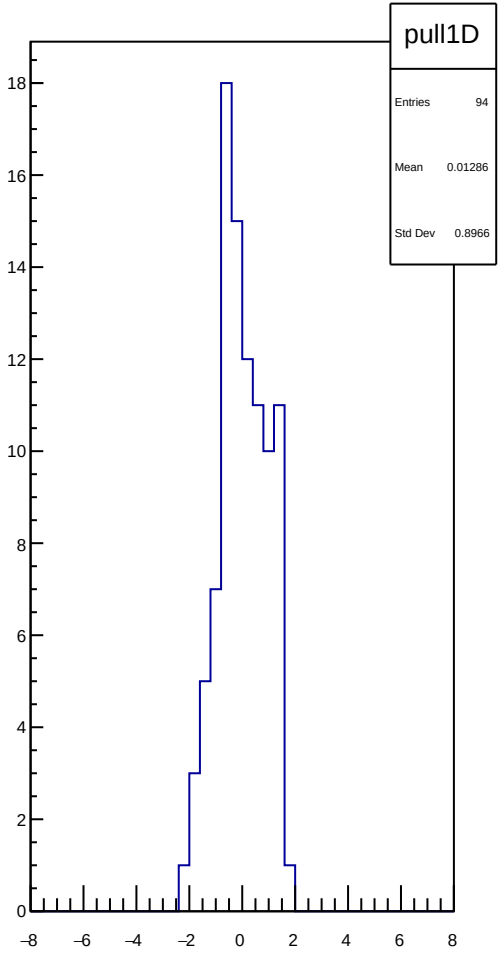

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.347e+05 / 93
p0 3.85e−11 ± 3.538e−14
0.3
0.25
0.2
0.15
0.1
0.05

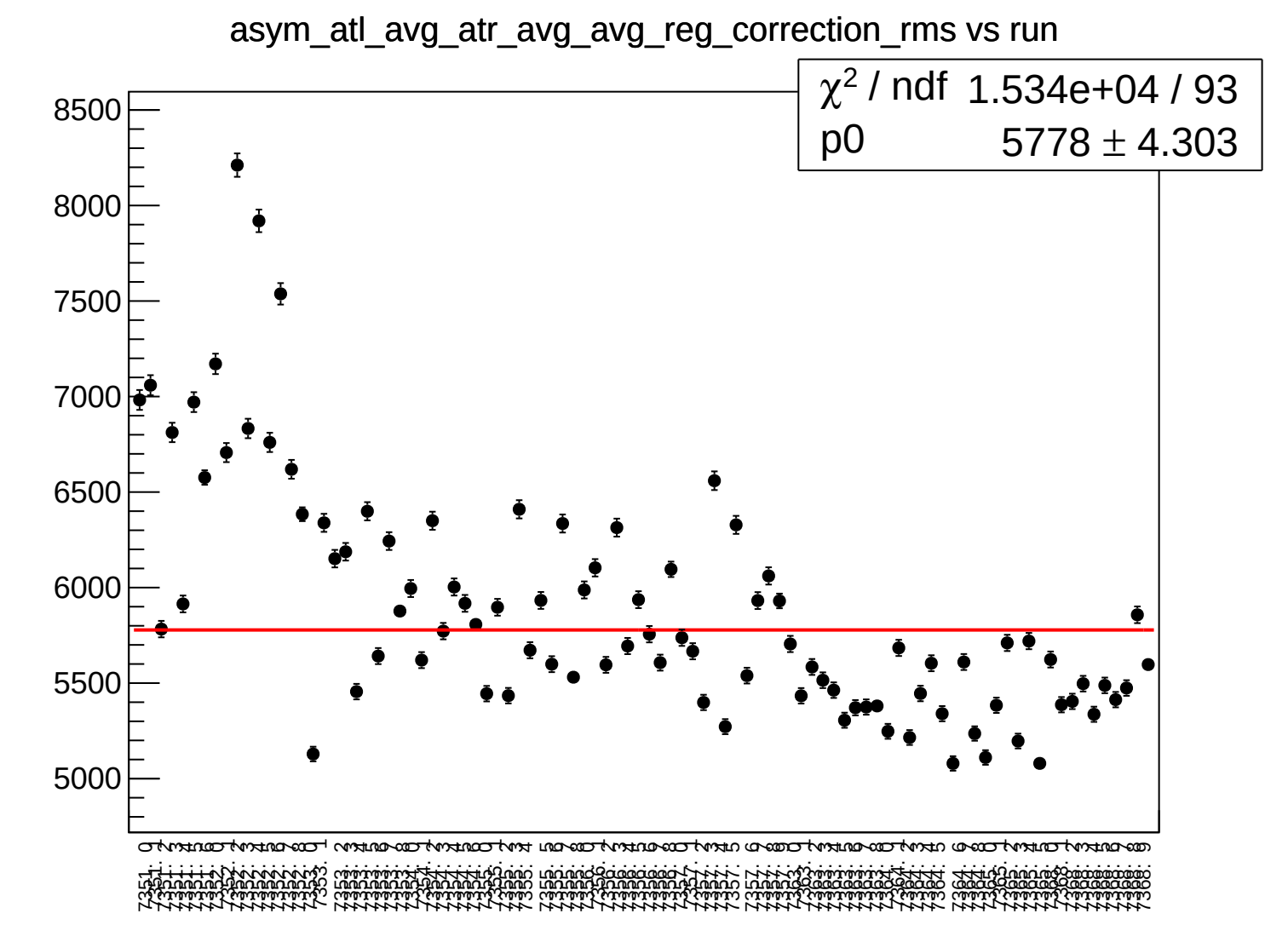

reg_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 74.63 / 93
p0 −2326 ± 1294
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 286.2
Std Dev 0
2
1
0
−1
−2
−3

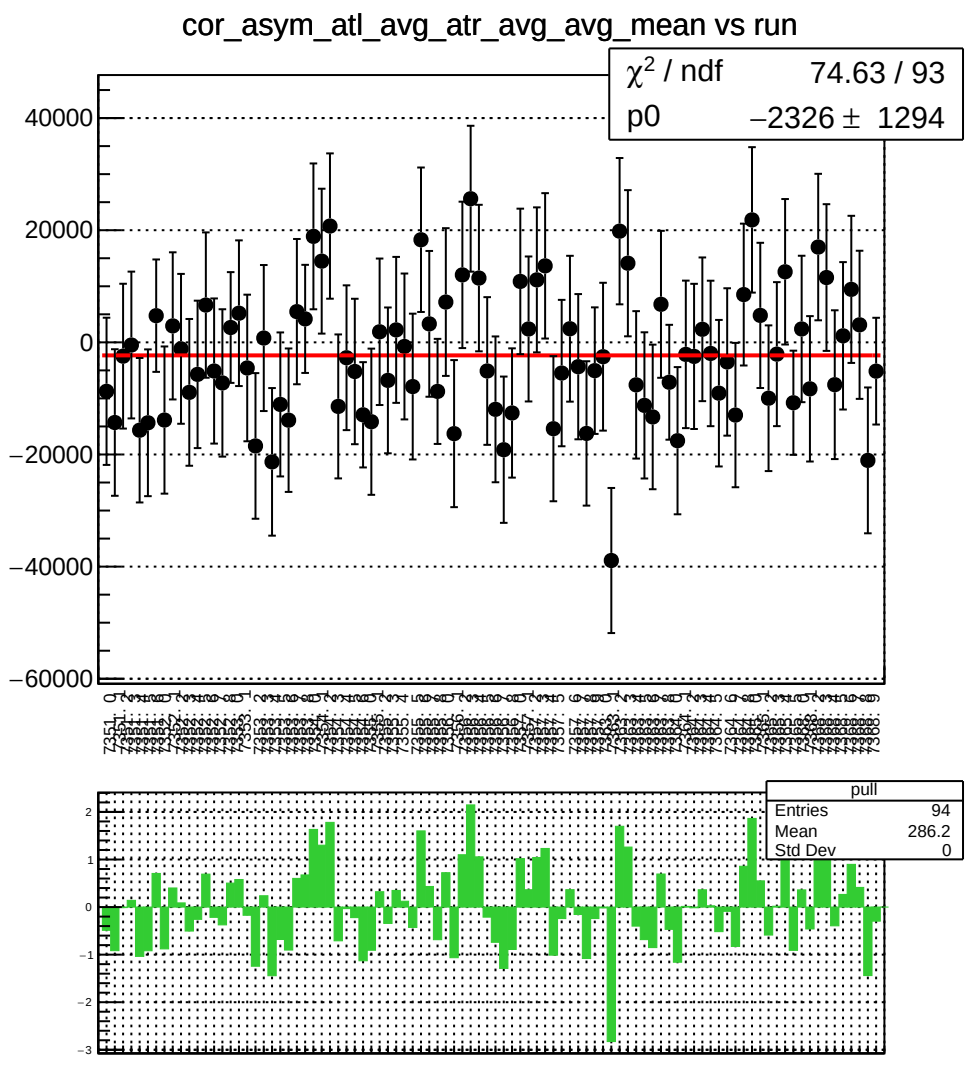

pull1D
Entries 94
Mean 0.008774
Std Dev 0.891
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

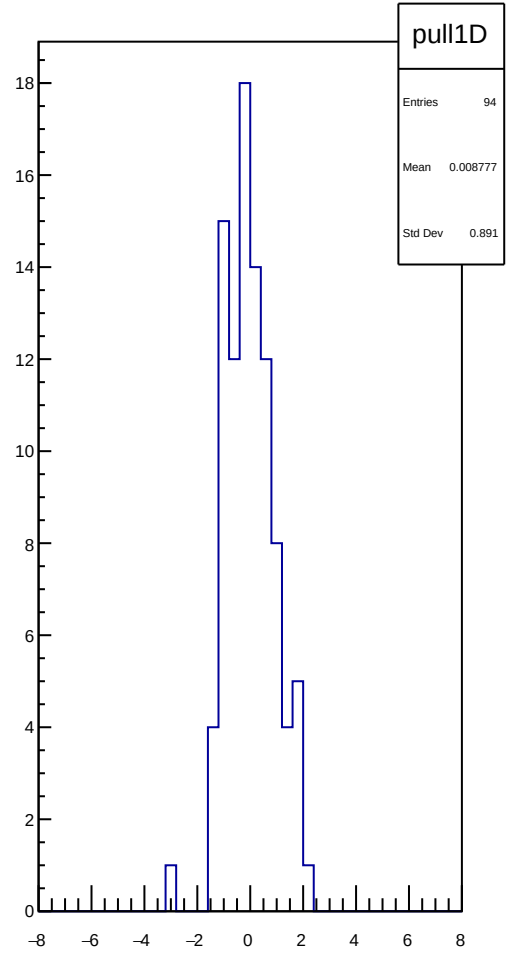

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 121.5 / 93
p0 1234 ± 0.9152
1280
1270
1260
1250
1240
1230
1220
1210
1200

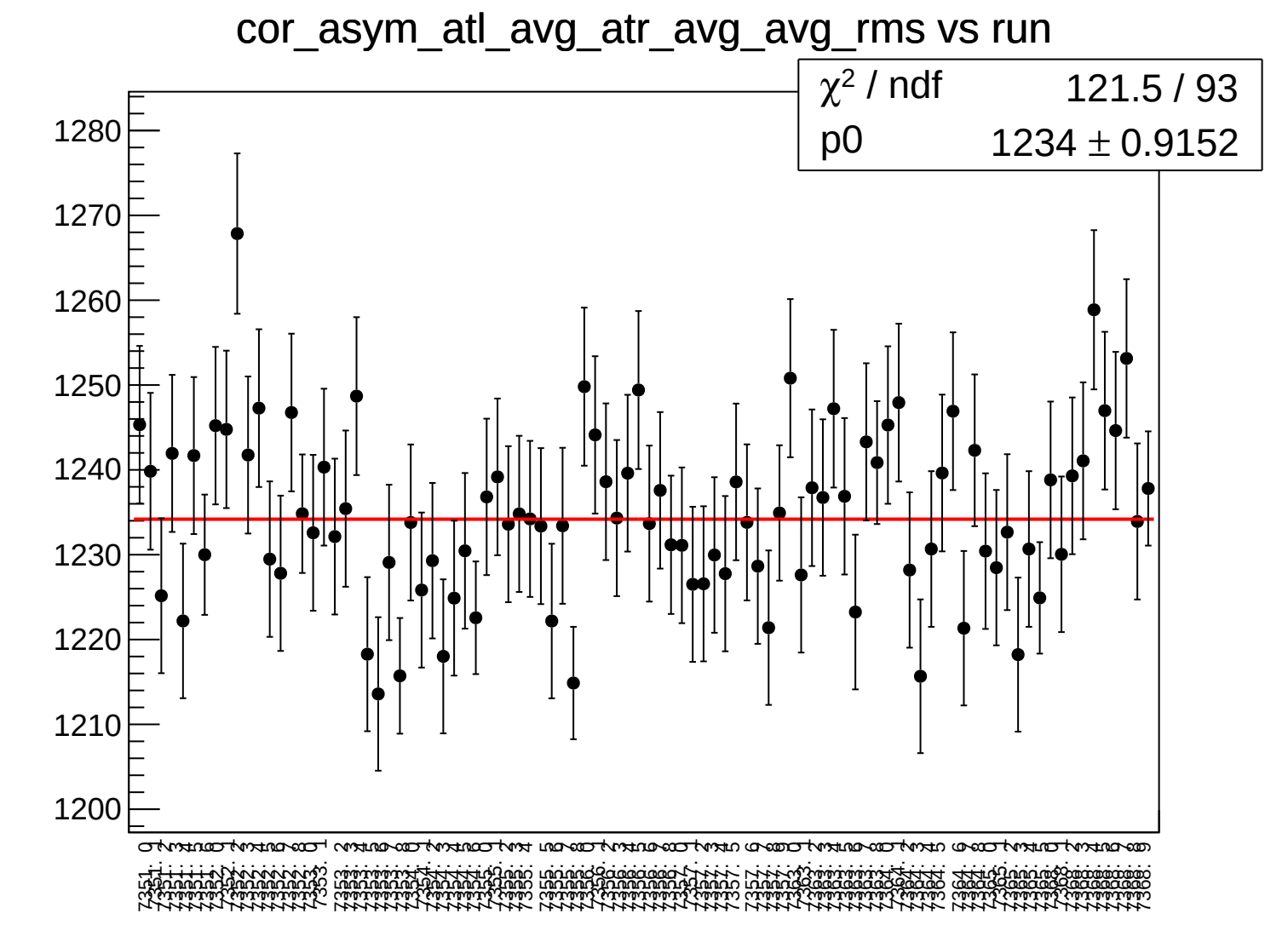

asym_atl_avg_atr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 75.58 / 93
p0 6115 ± 6085
pull
Entries 94
Mean −105
Std Dev 0

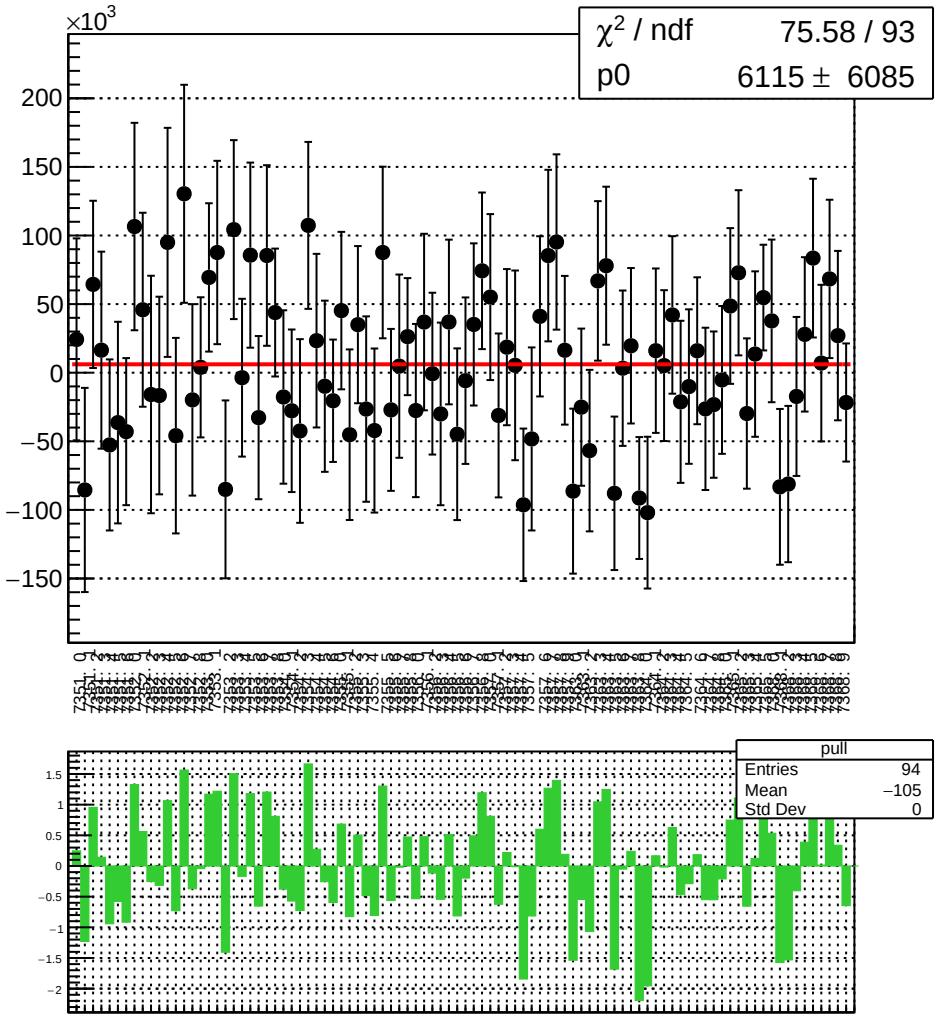

pull1D
Entries 94
Mean 0.01286
Std Dev 0.8966

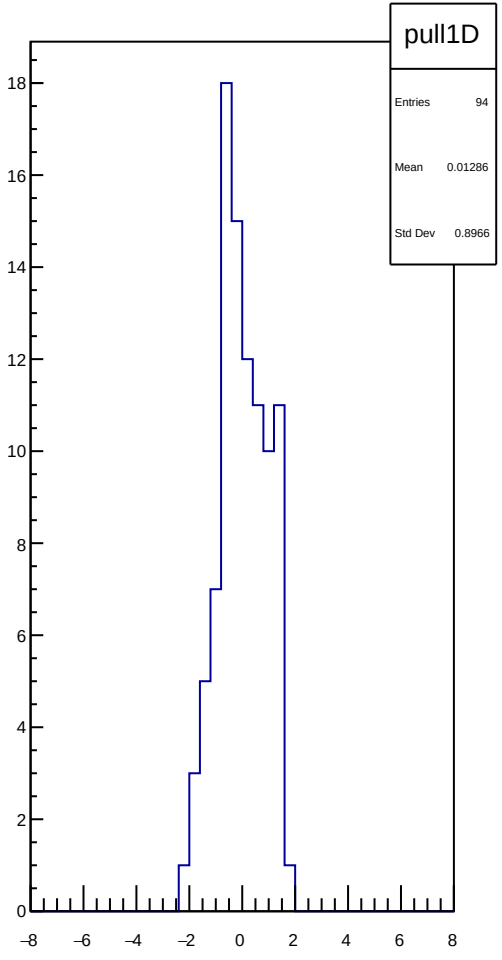

asym_atl_avg_atr_avg_avg_reg_correction_rms vs run
χ² / ndf 1.534e+04 / 93
p0 5778 ± 4.303
8500
8000
7500
7000
6500
6000
5500
5000

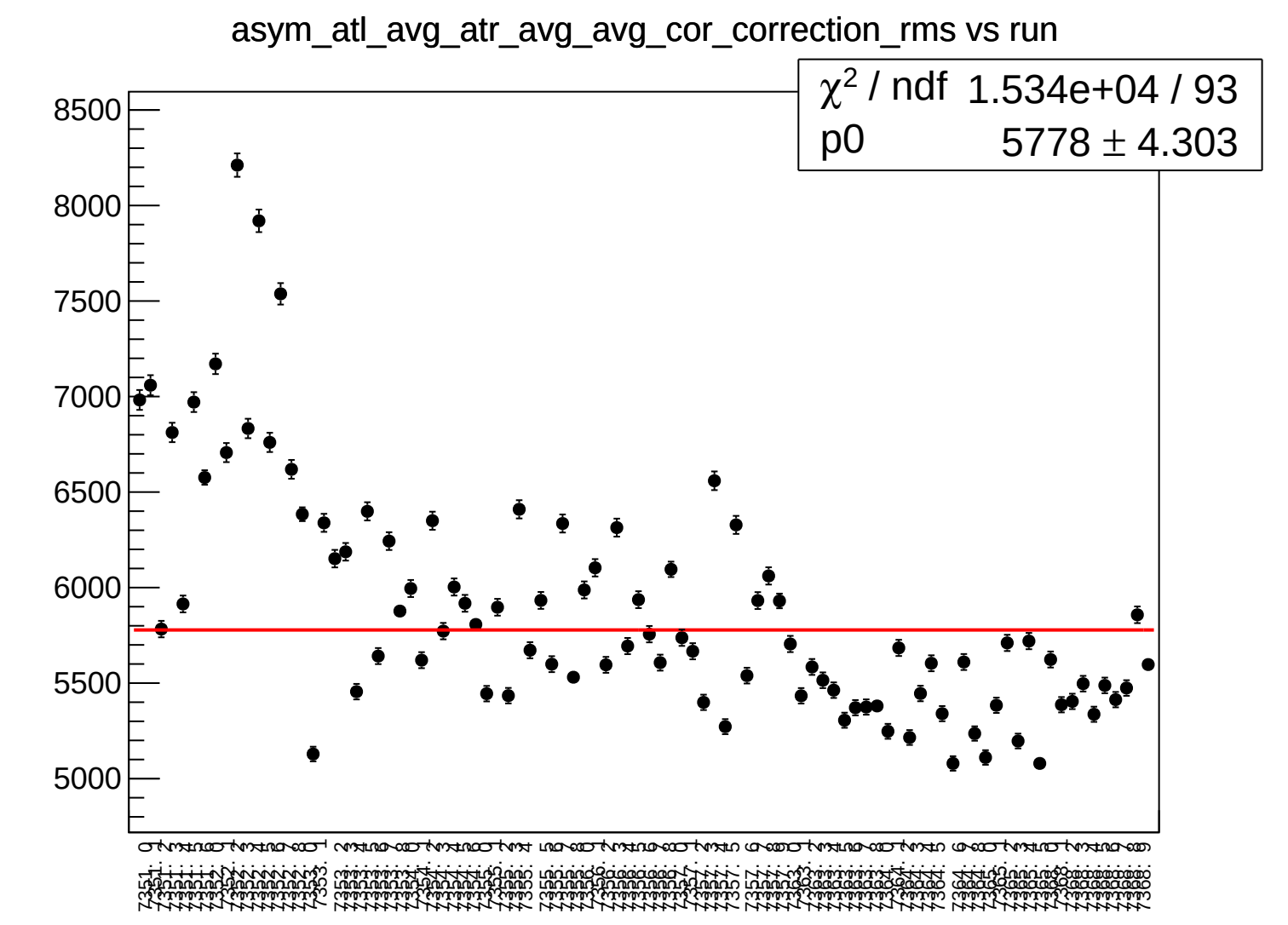

cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 74.63 / 93
p0 −2326 ± 1294
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 286.2
Std Dev 0
2
1
0
−1
−2
−3

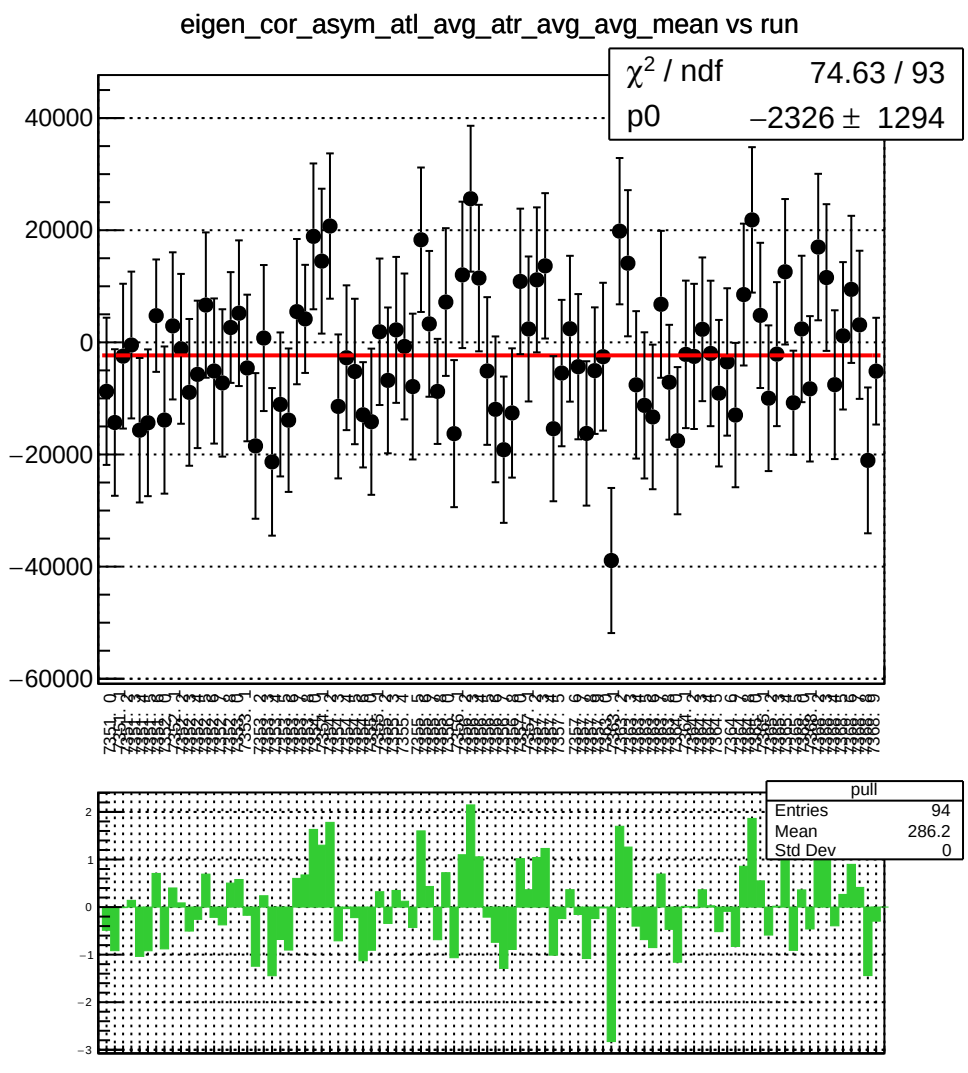

pull1D
Entries 94
Mean 0.008777
Std Dev 0.891
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

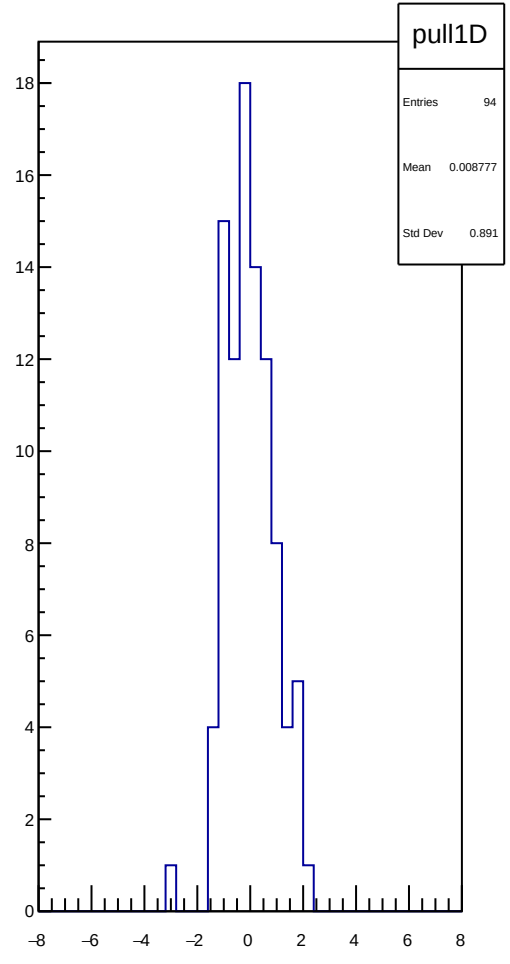

cor_asym_atl_avg_atr_avg_avg_rms vs run
χ^2 / ndf 121.5 / 93
p0 1234 ± 0.9152
1280
1270
1260
1250
1240
1230
1220
1210
1200

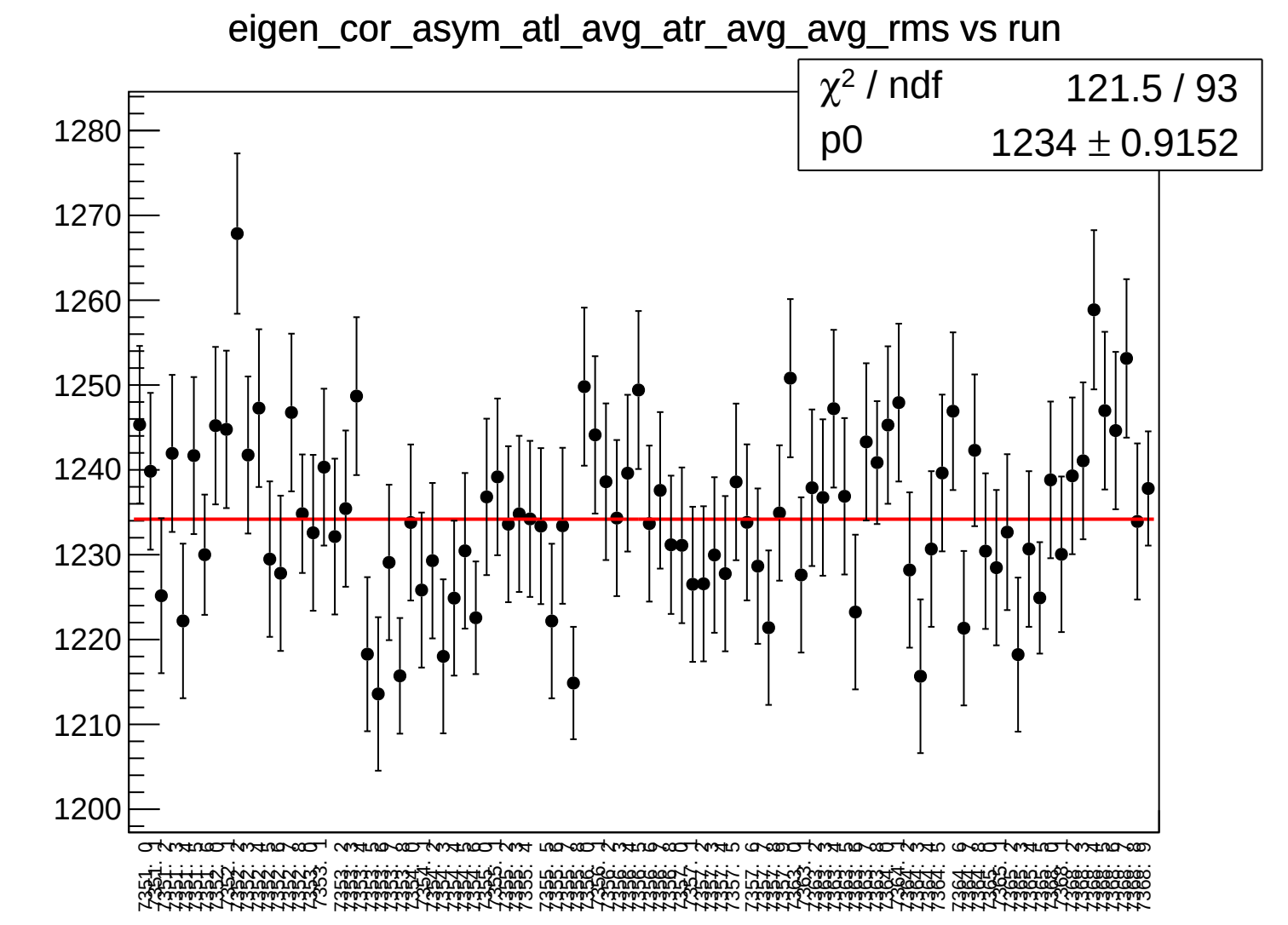

asym_atl_avg_atr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 75.58 / 93
p0 6115 ± 6085
200
150
100
50
0
−50
−100
−150
pull
Entries 94
Mean −105
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

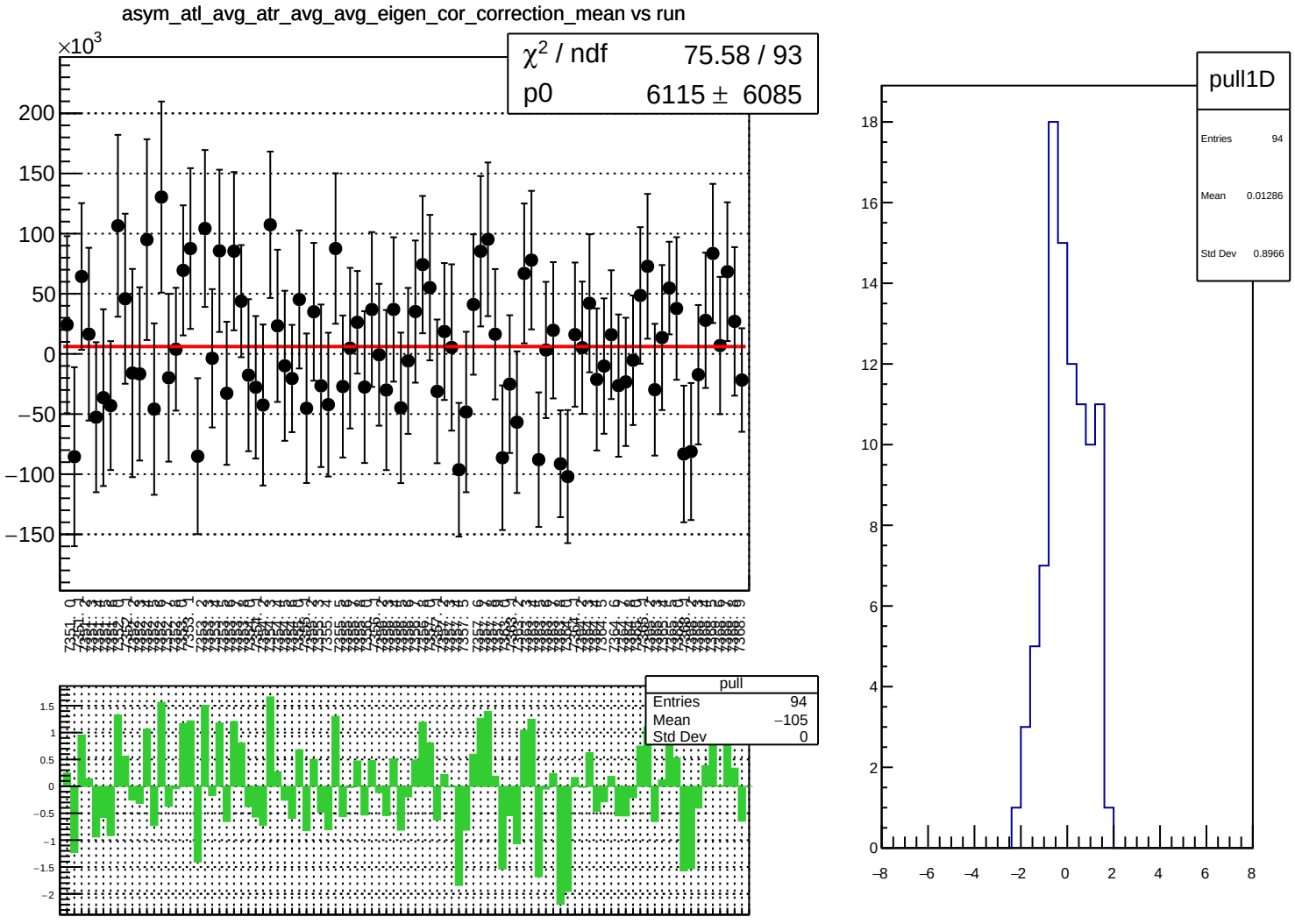

pull1D
Entries 94
Mean 0.01286
Std Dev 0.8966
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

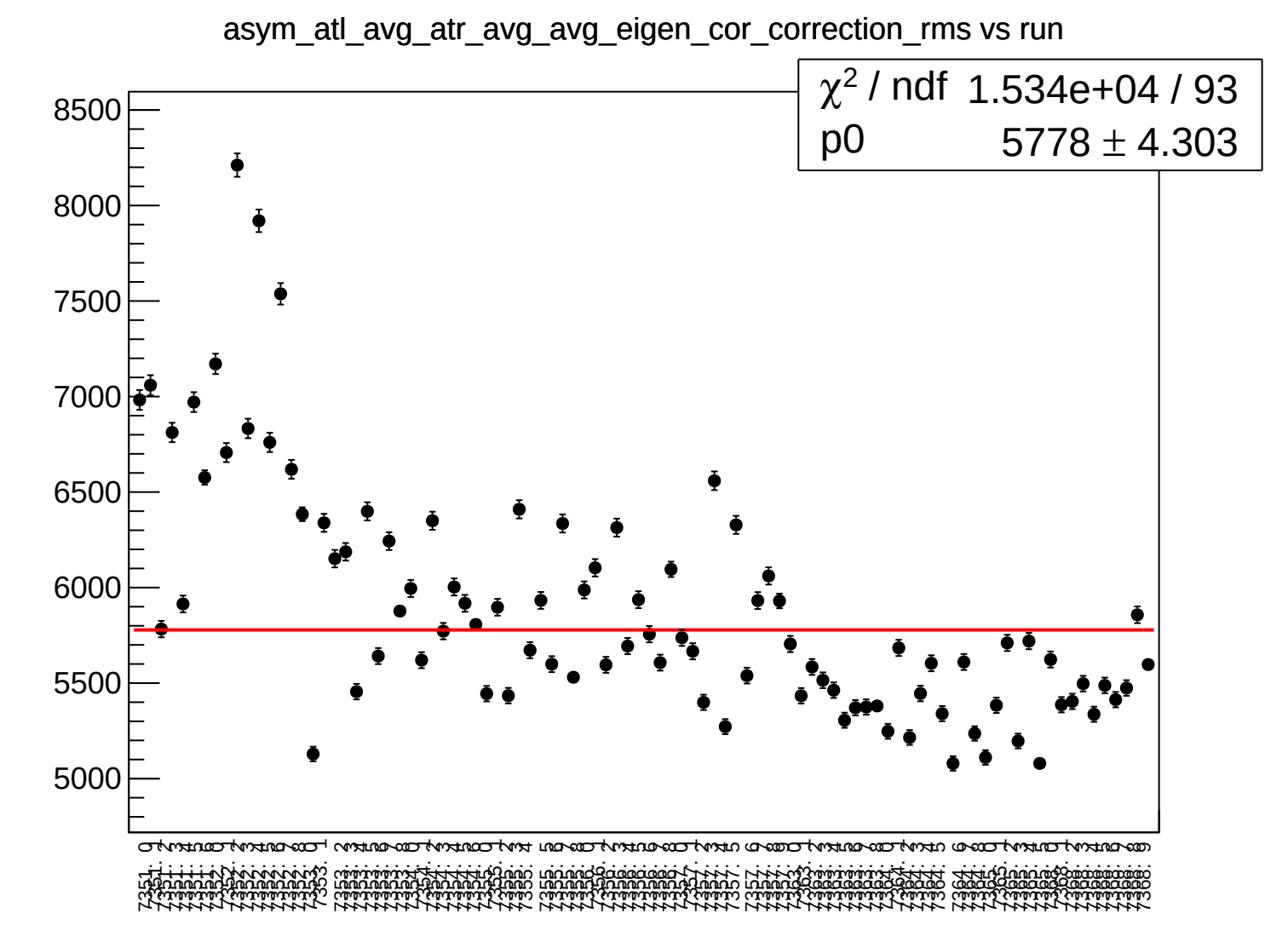

asym_atl_avg_atr_avg_avg_cor_correction_rms vs run
χ² / ndf 1.534e+04 / 93
p0 5778 ± 4.303
8500
8000
7500
7000
6500
6000
5500
5000

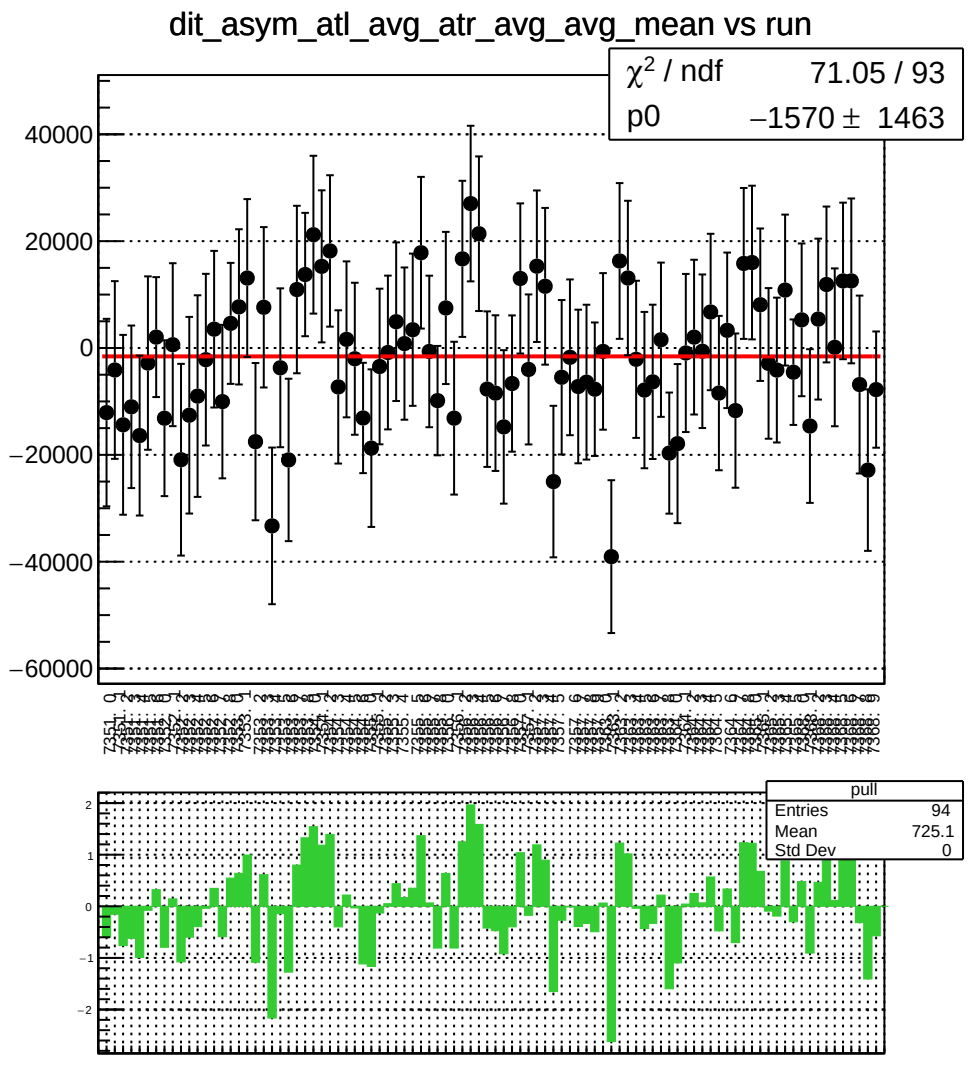

eigen_cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 74.63 / 93
p0 −2326 ± 1294
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 286.2
Std Dev 0
2
1
0
−1
−2
−3

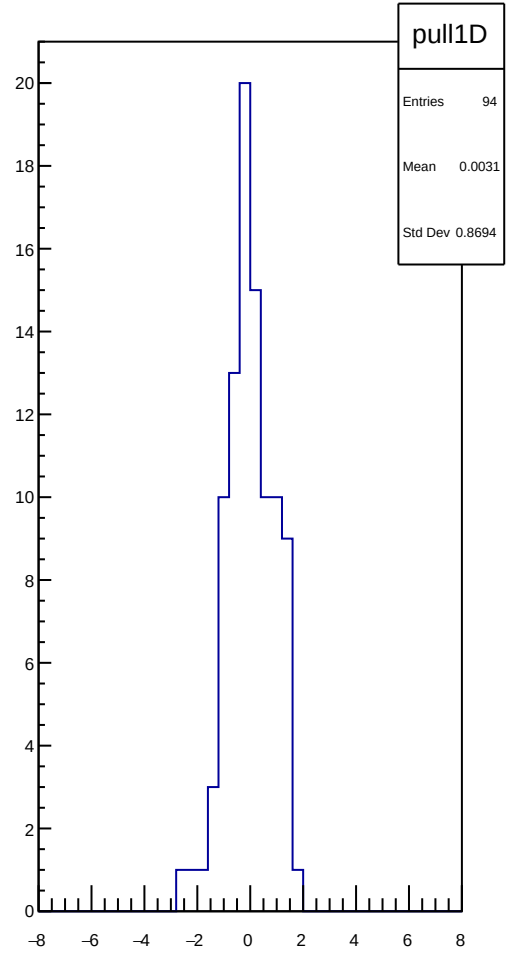

pull1D
Entries 94
Mean 0.008777
Std Dev 0.891
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

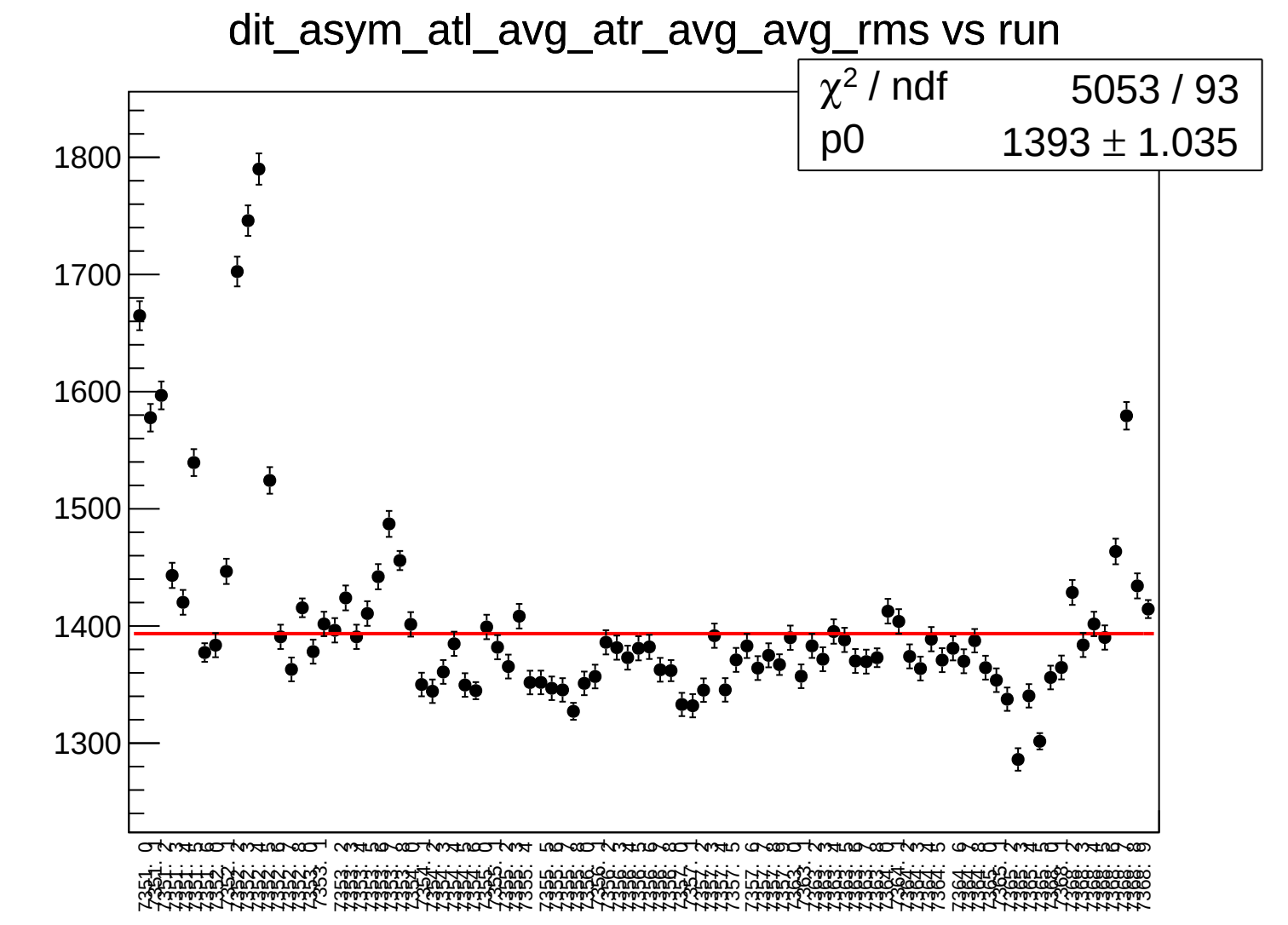

eigen_cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 121.5 / 93
p0 1234 ± 0.9152
1280
1270
1260
1250
1240
1230
1220
1210
1200

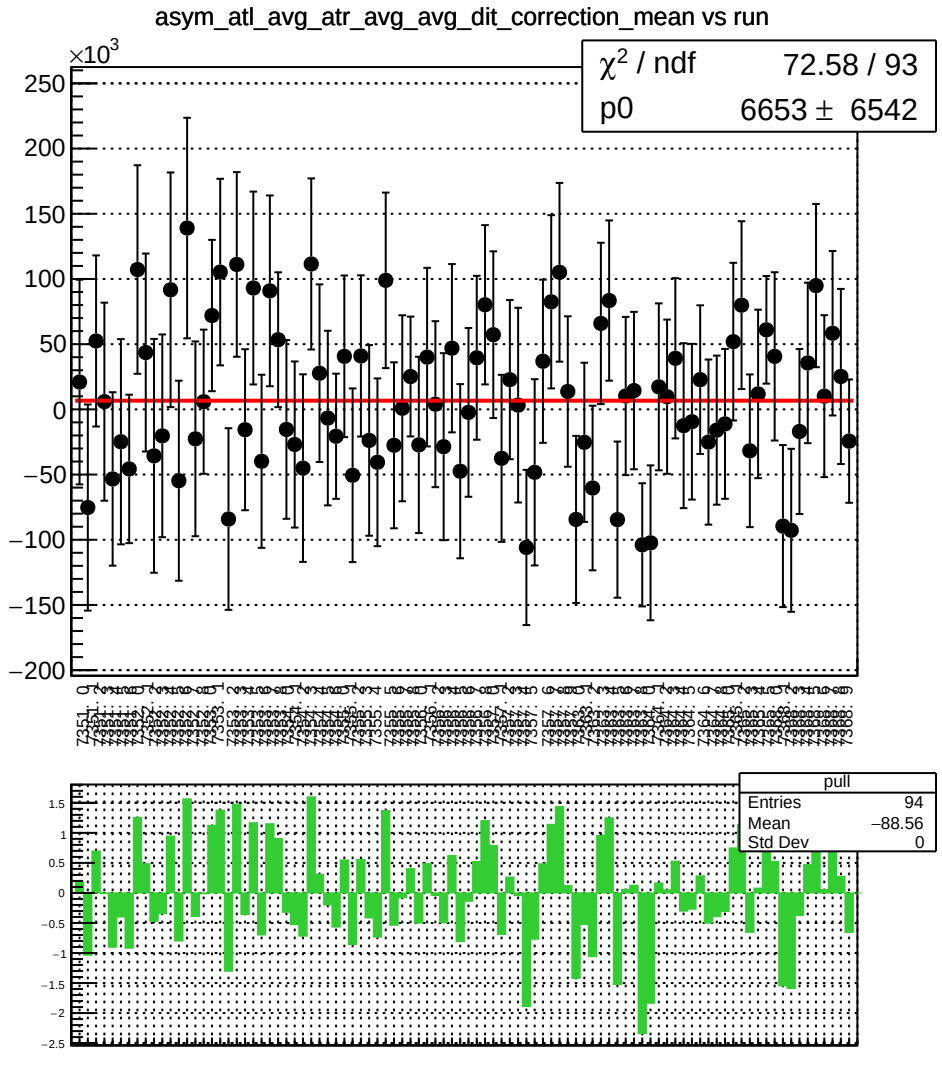

asym_atl_avg_atr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 75.58 / 93
p0 6115 ± 6085
pull
Entries 94
Mean −105
Std Dev 0
pull1D
Entries 94
Mean 0.01286
Std Dev 0.8966

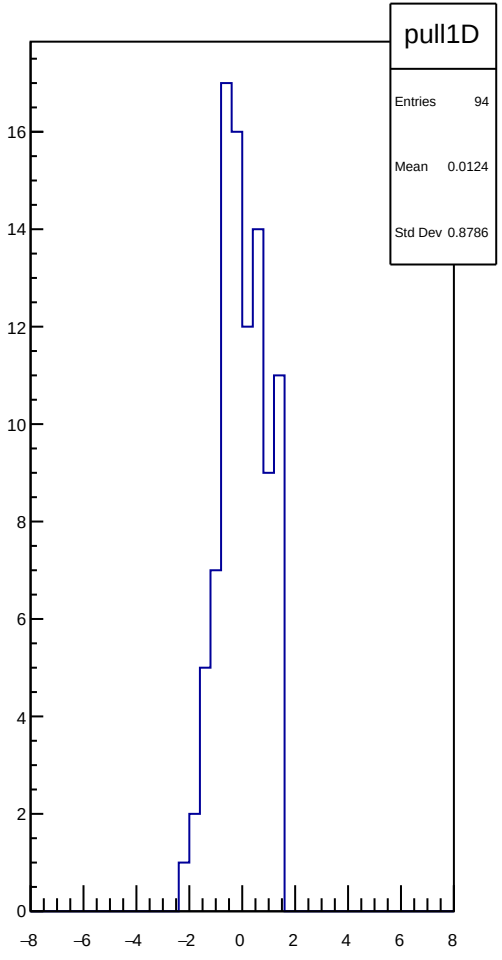

asym_atl_avg_atr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.534e+04 / 93
p0 5778 ± 4.303
8500
8000
7500
7000
6500
6000
5500
5000

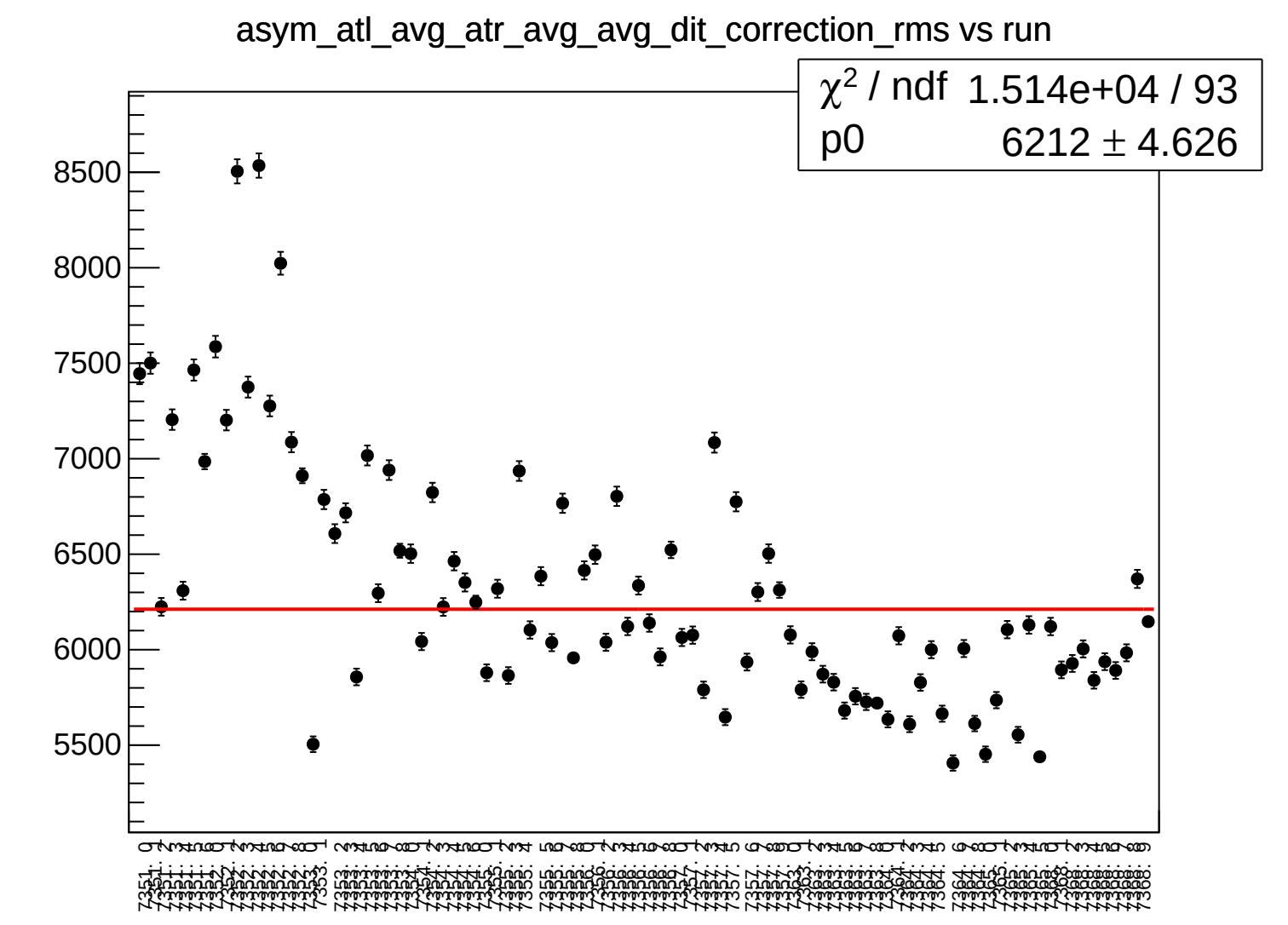

dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 71.05 / 93
p0 −1570 ± 1463
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 725.1
Std Dev 0
2
1
0
−1
−2

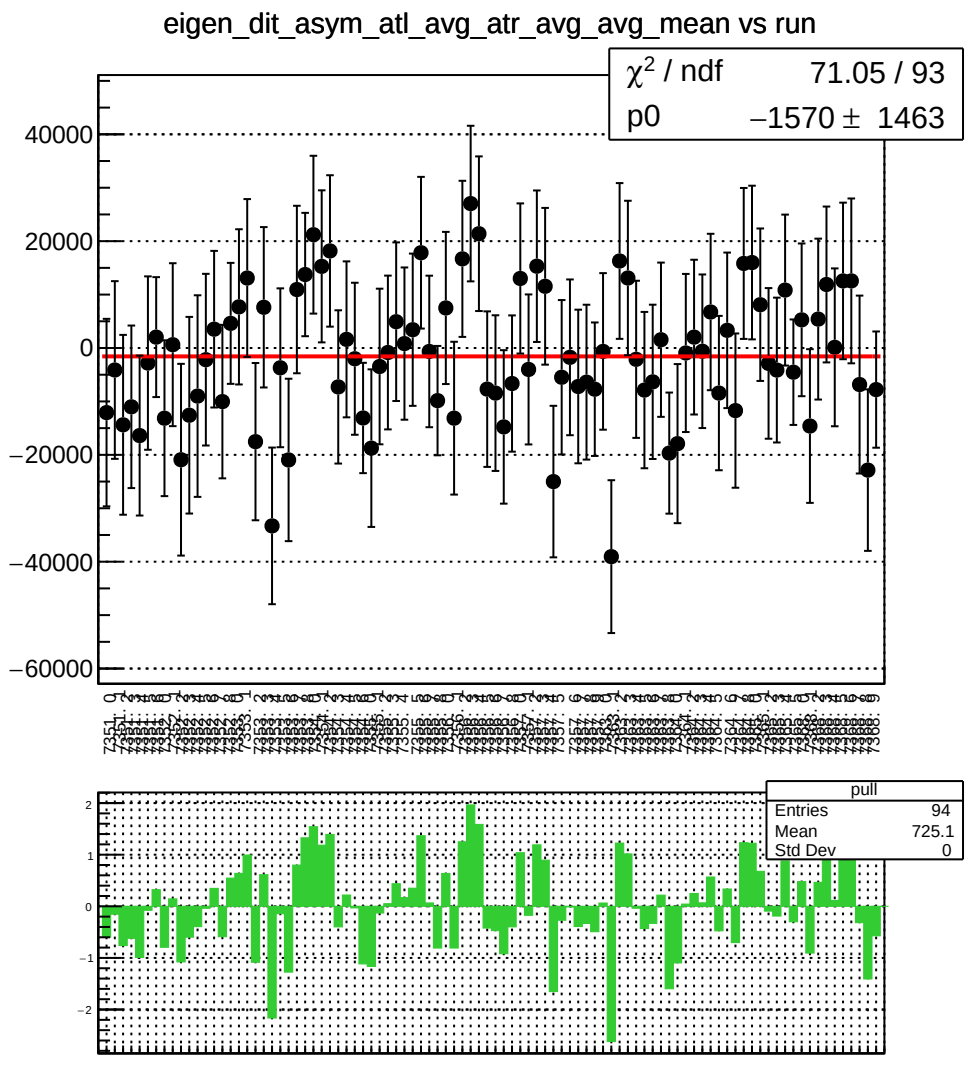

pull1D
Entries 94
Mean 0.0031
Std Dev 0.8694
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

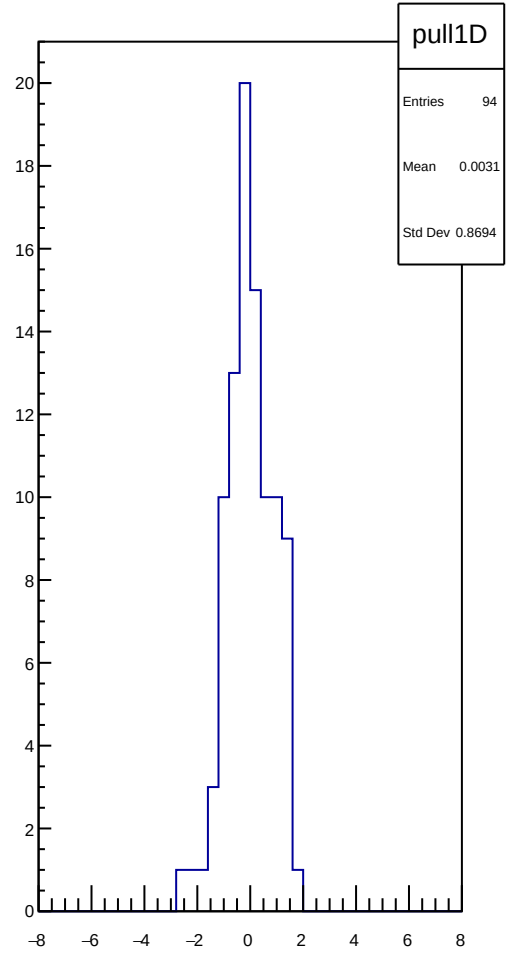

dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 5053 / 93
p0 1393 ± 1.035
1800
1700
1600
1500
1400
1300

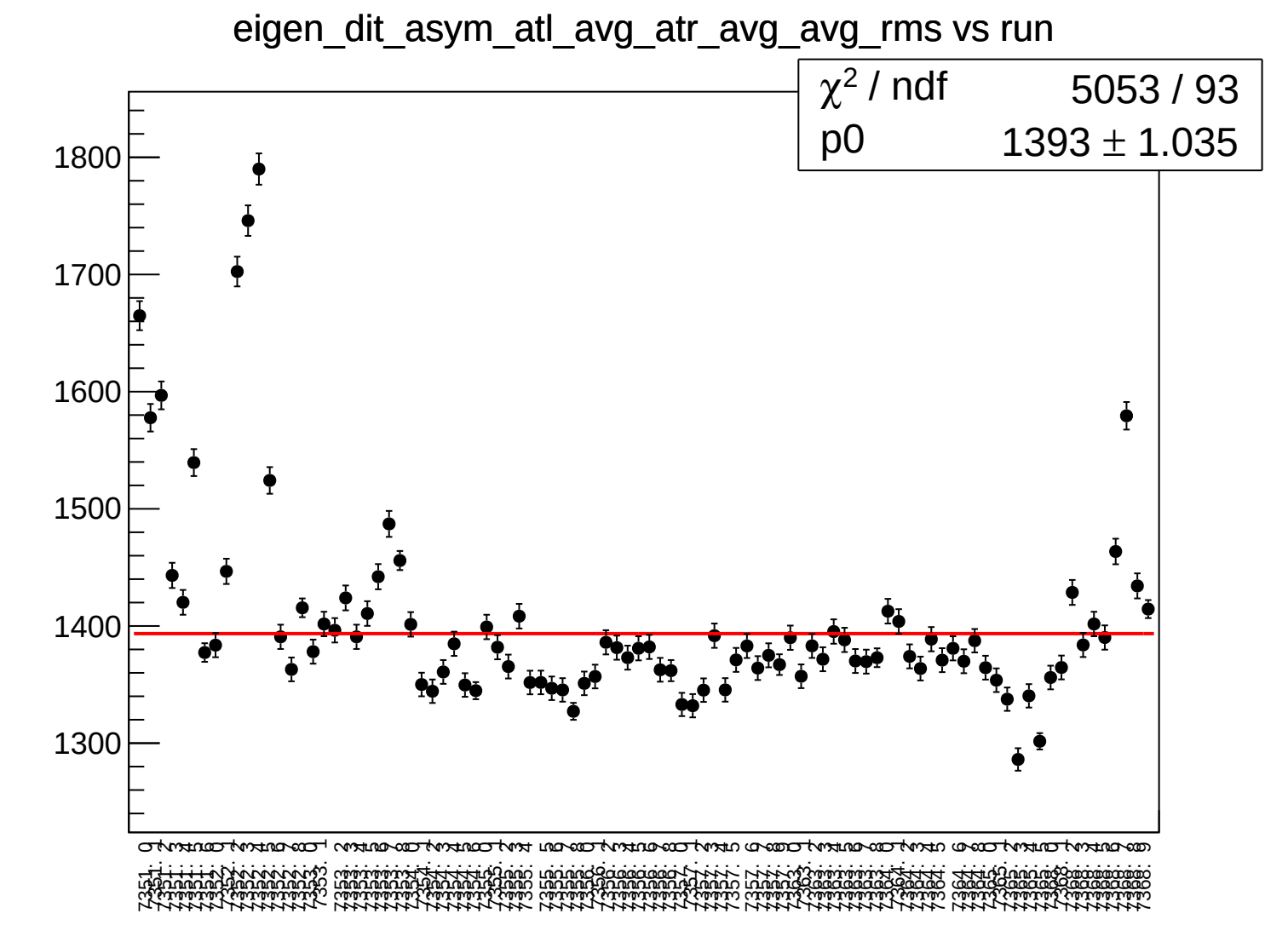

asym_atl_avg_atr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 72.58 / 93
p0 6653 ± 6542
pull
Entries 94
Mean −88.56
Std Dev 0

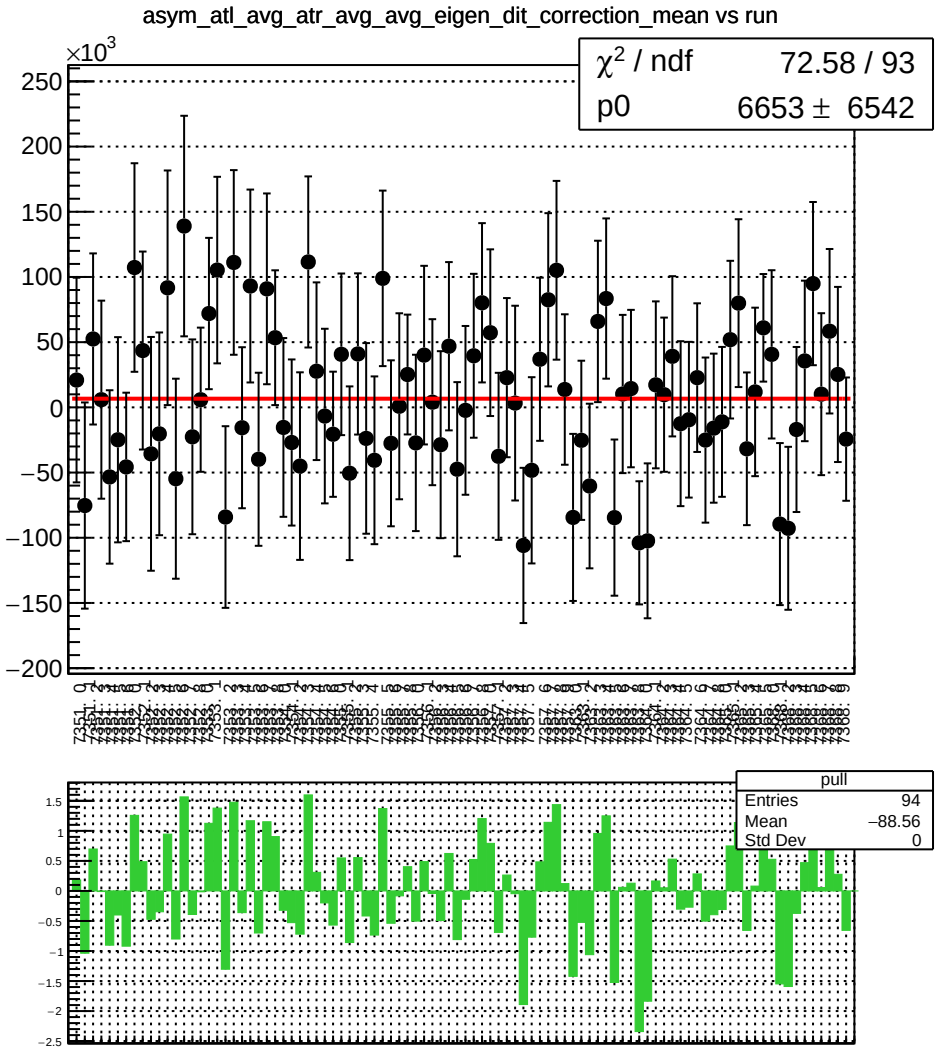

pull1D
Entries 94
Mean 0.0124
Std Dev 0.8786

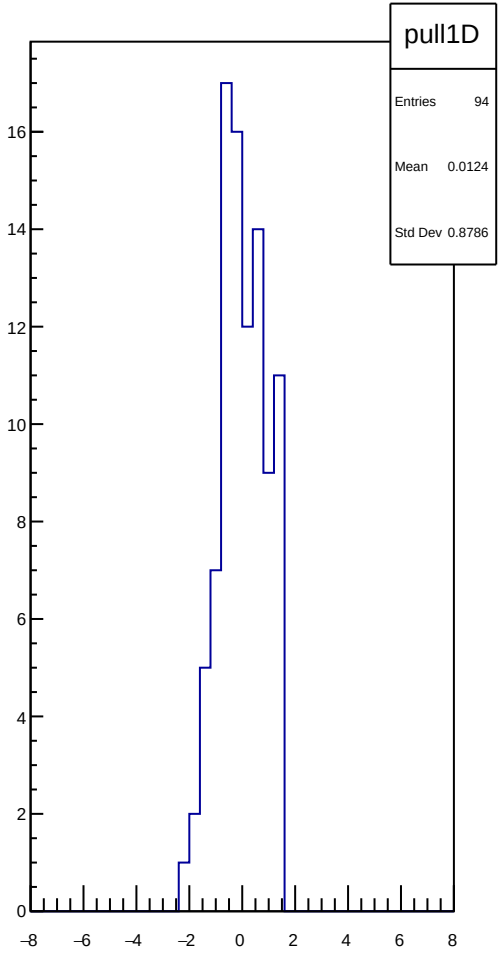

asym_atl_avg_atr_avg_avg_dit_correction_rms vs run
χ² / ndf 1.514e+04 / 93
p0 6212 ± 4.626
8500
8000
7500
7000
6500
6000
5500

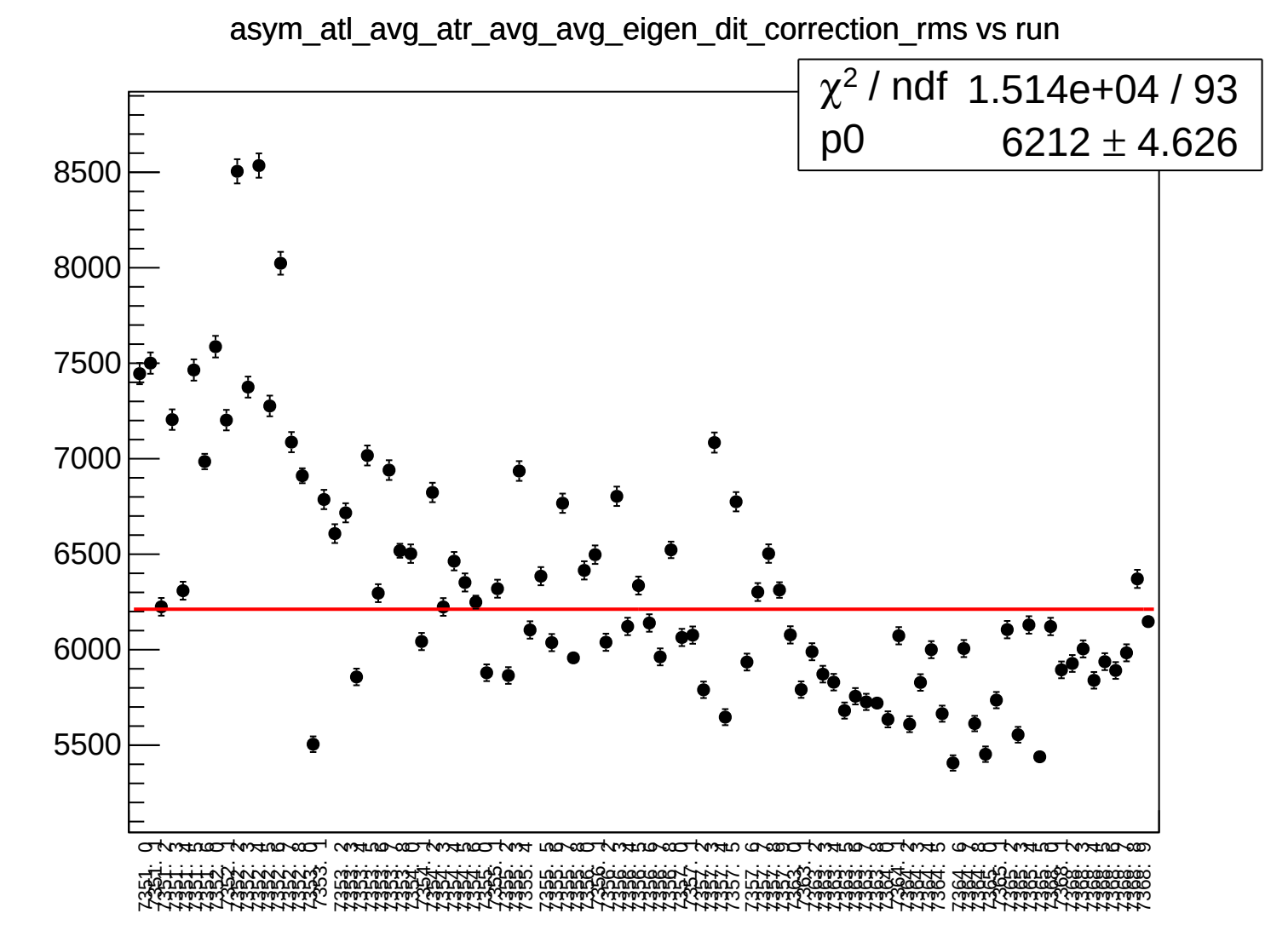

eigen_dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 71.05 / 93
p0 −1570 ± 1463
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 725.1
Std Dev 0
2
1
0
−1
−2

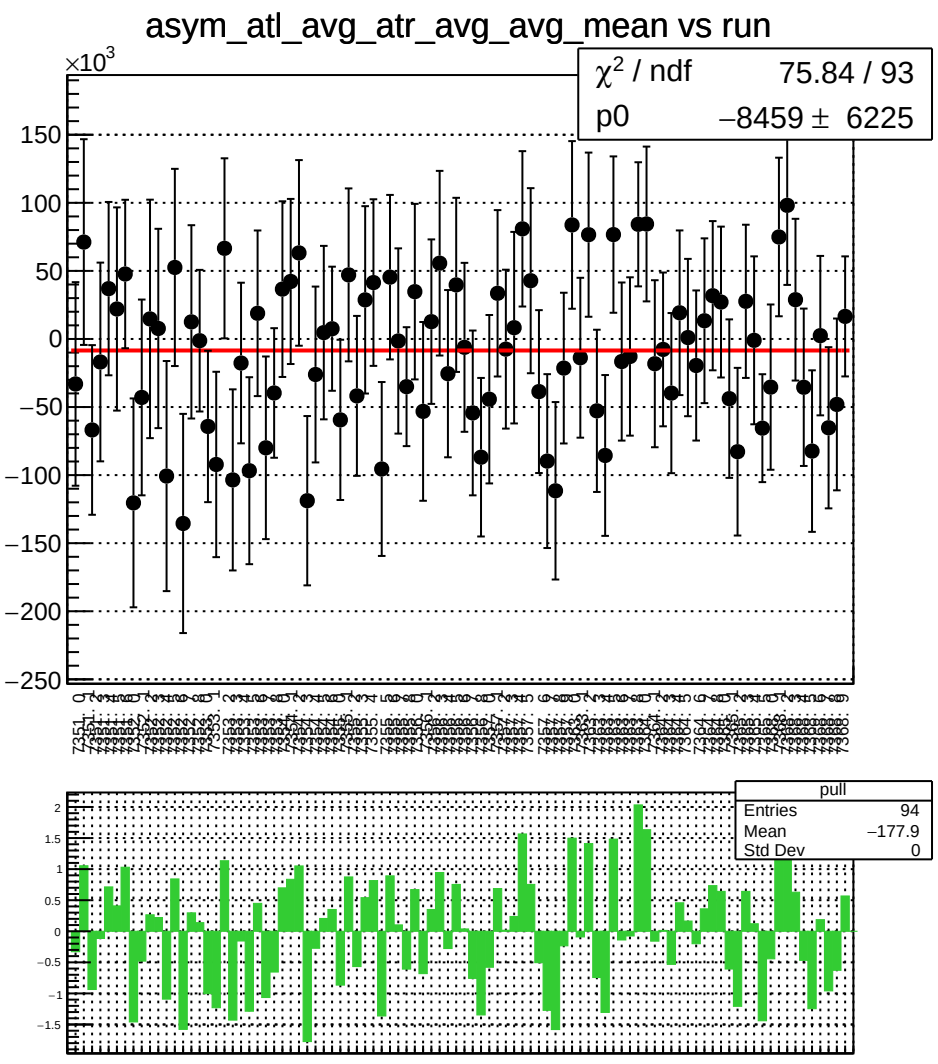

pull1D
Entries 94
Mean 0.0031
Std Dev 0.8694
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

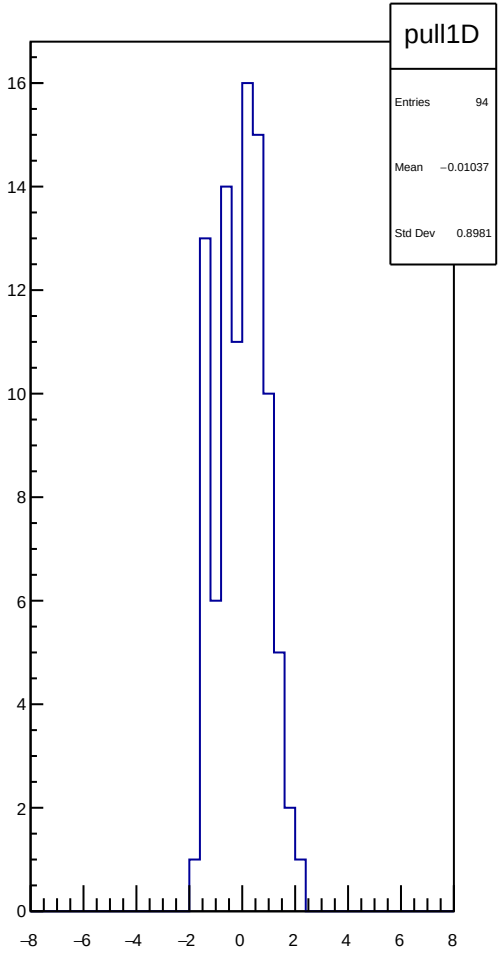

eigen_dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 5053 / 93
p0 1393 ± 1.035
1800
1700
1600
1500
1400
1300

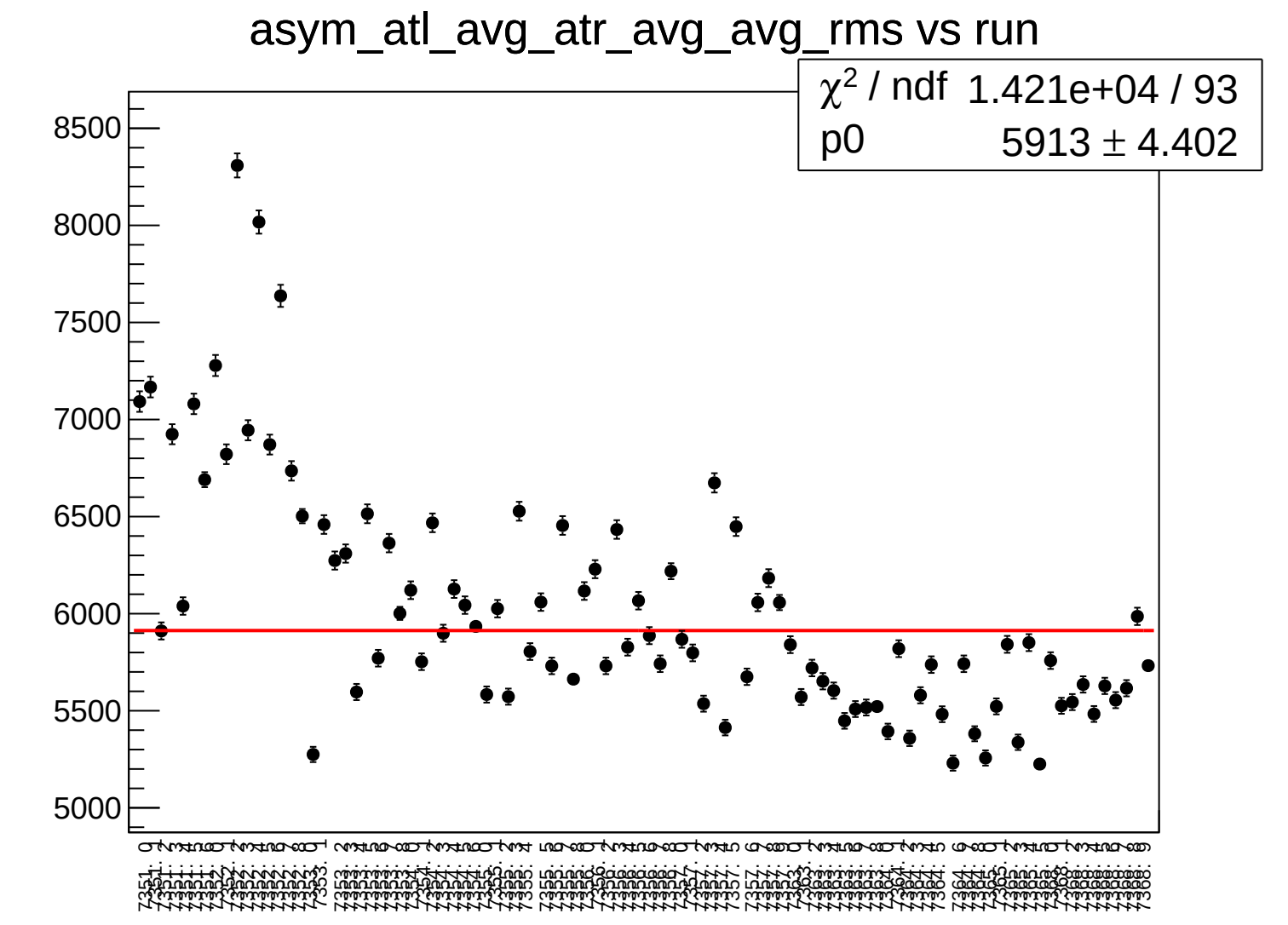

asym_atl_avg_atr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 72.58 / 93
p0 6653 ± 6542
pull
Entries 94
Mean −88.56
Std Dev 0

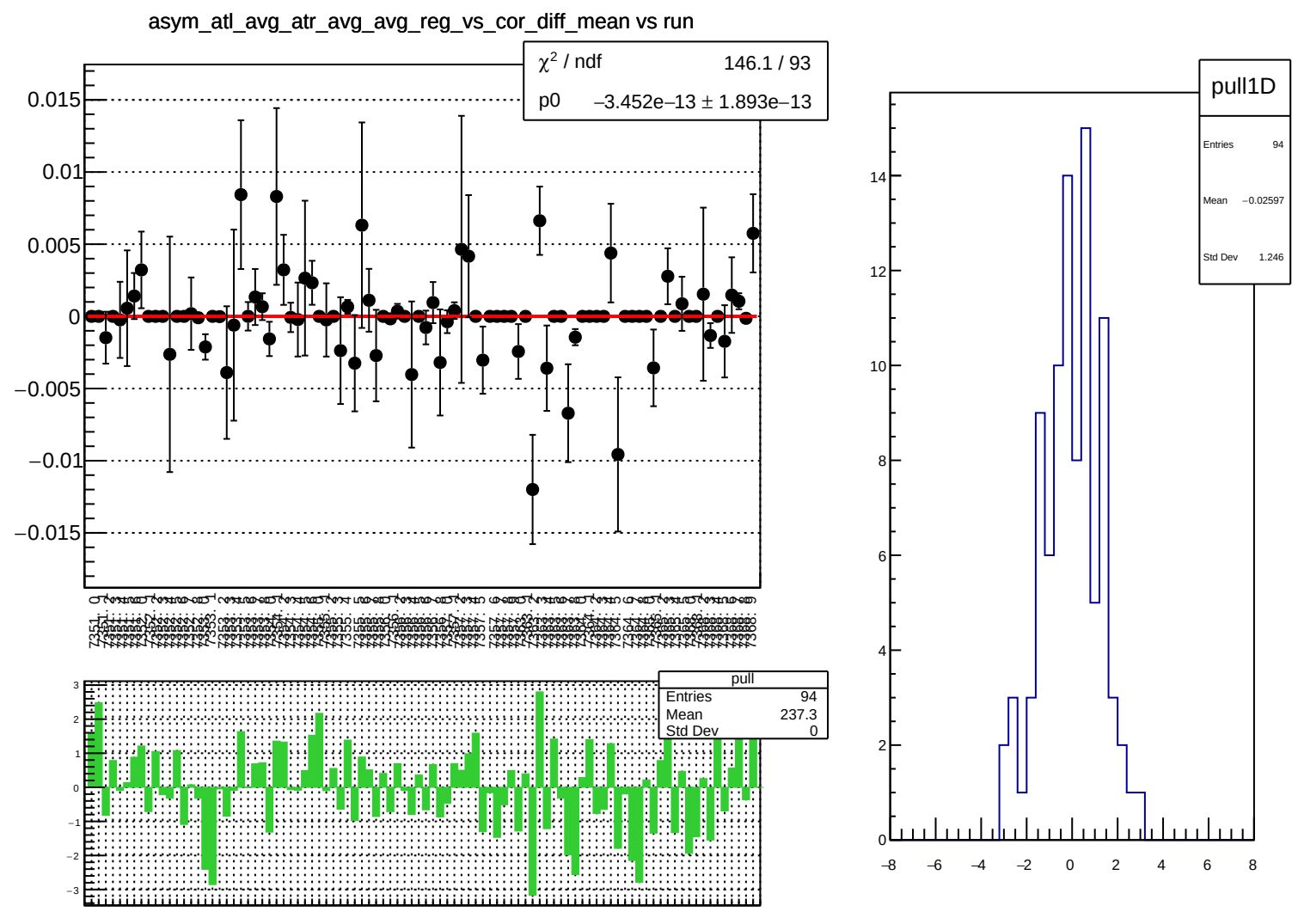

pull1D
Entries 94
Mean 0.0124
Std Dev 0.8786

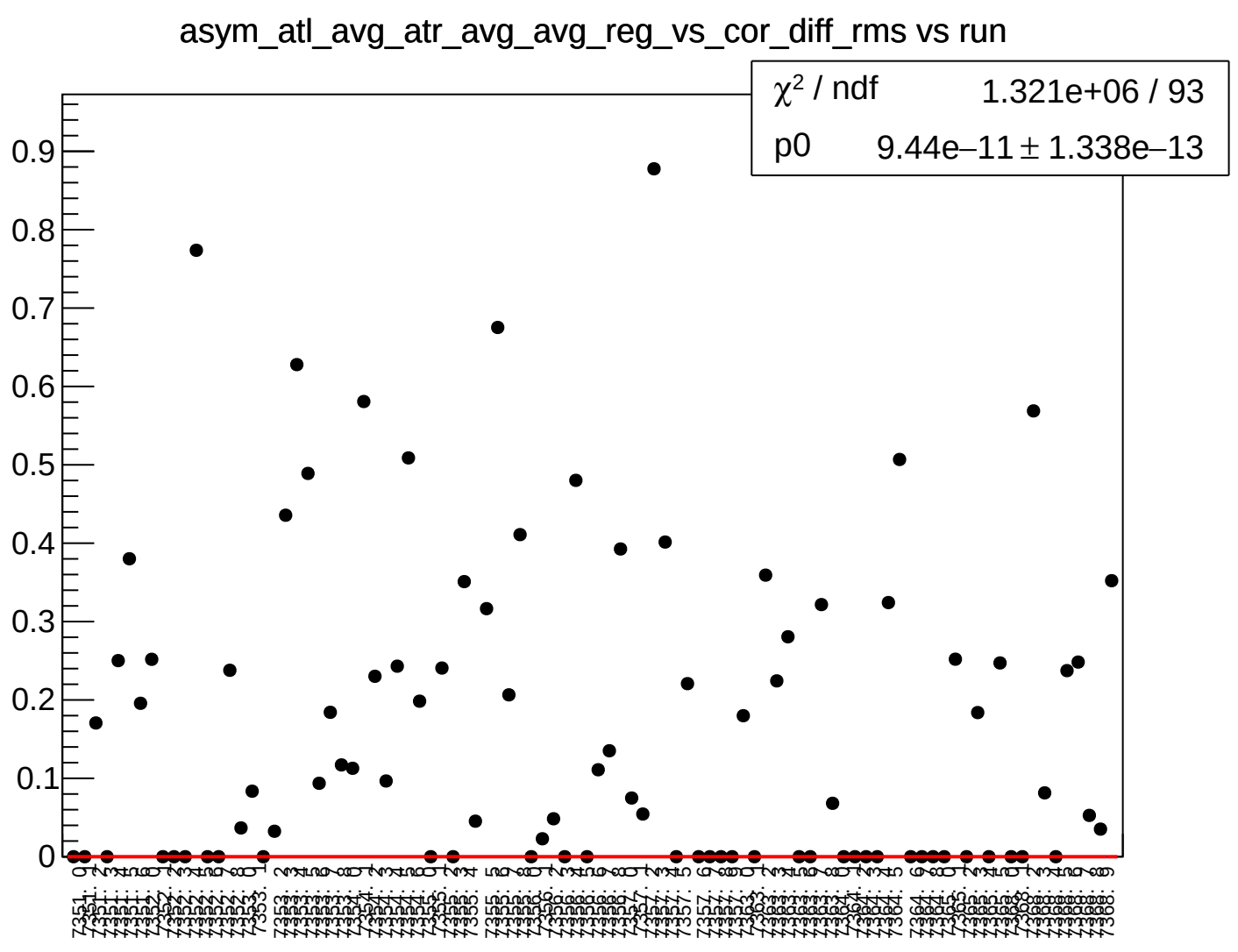

asym_atl_avg_atr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.514e+04 / 93
p0 6212 ± 4.626
8500
8000
7500
7000
6500
6000
5500

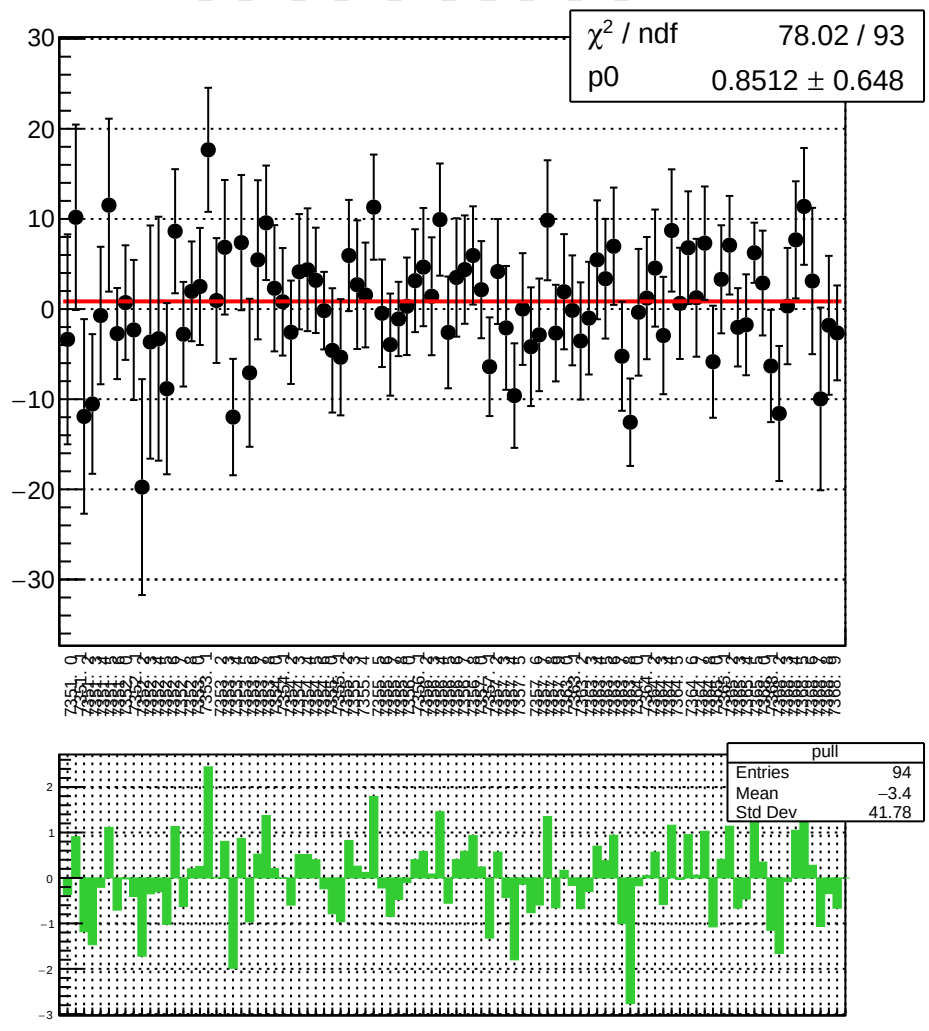

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 75.84 / 93
p0 −8459 ± 6225
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 94
Mean −177.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

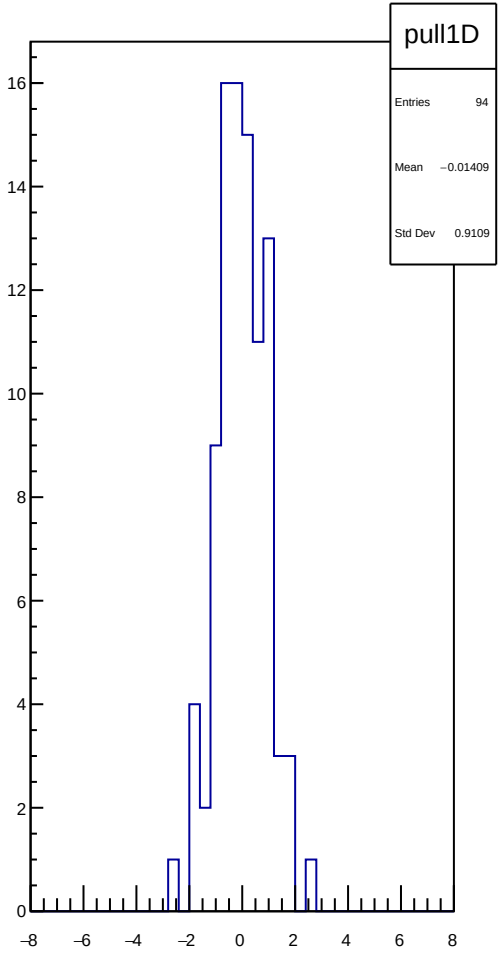

pull1D
Entries 94
Mean −0.01037
Std Dev 0.8981
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

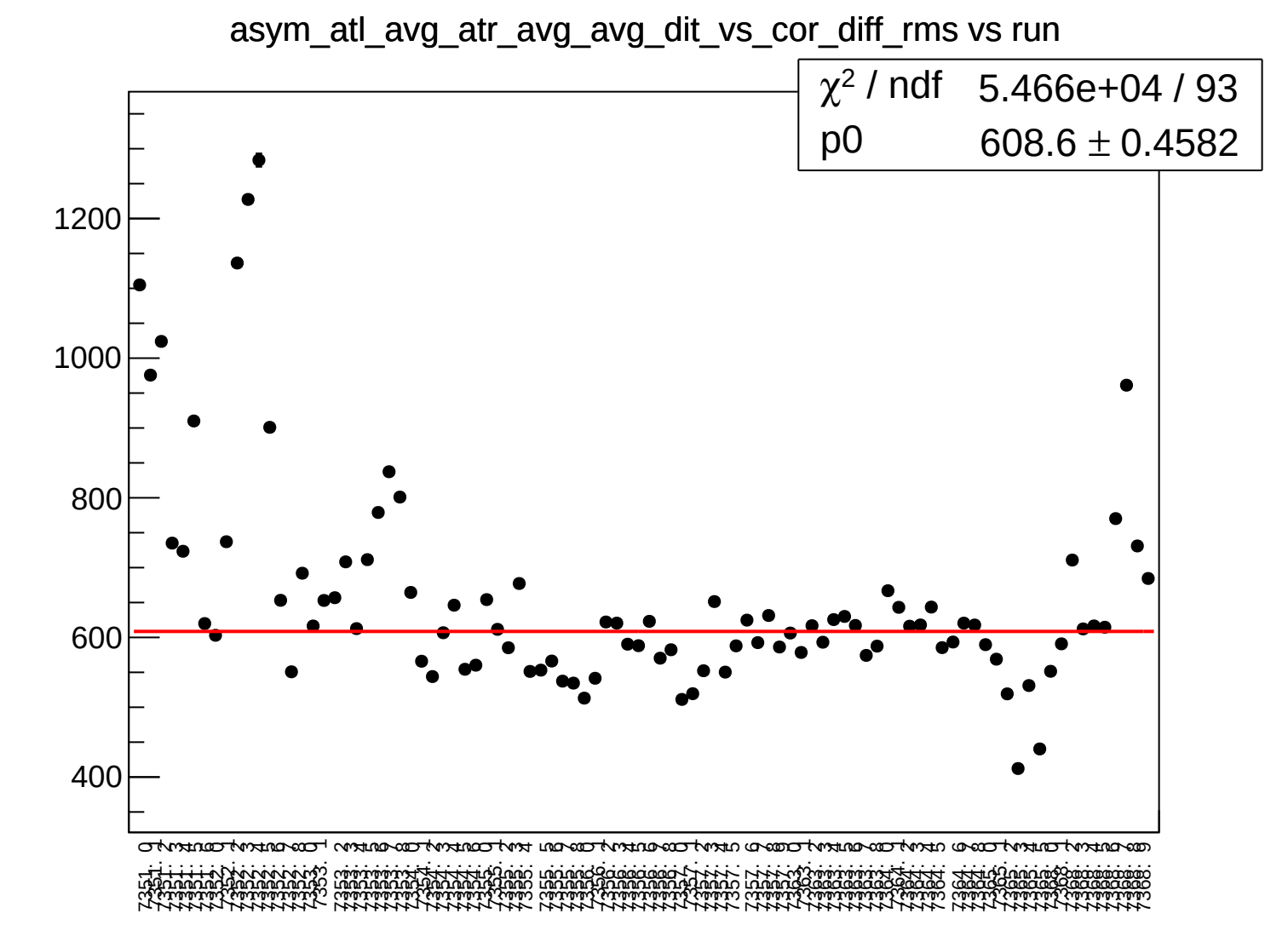

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 1.421e+04 / 93
p0 5913 ± 4.402
8500
8000
7500
7000
6500
6000
5500
5000

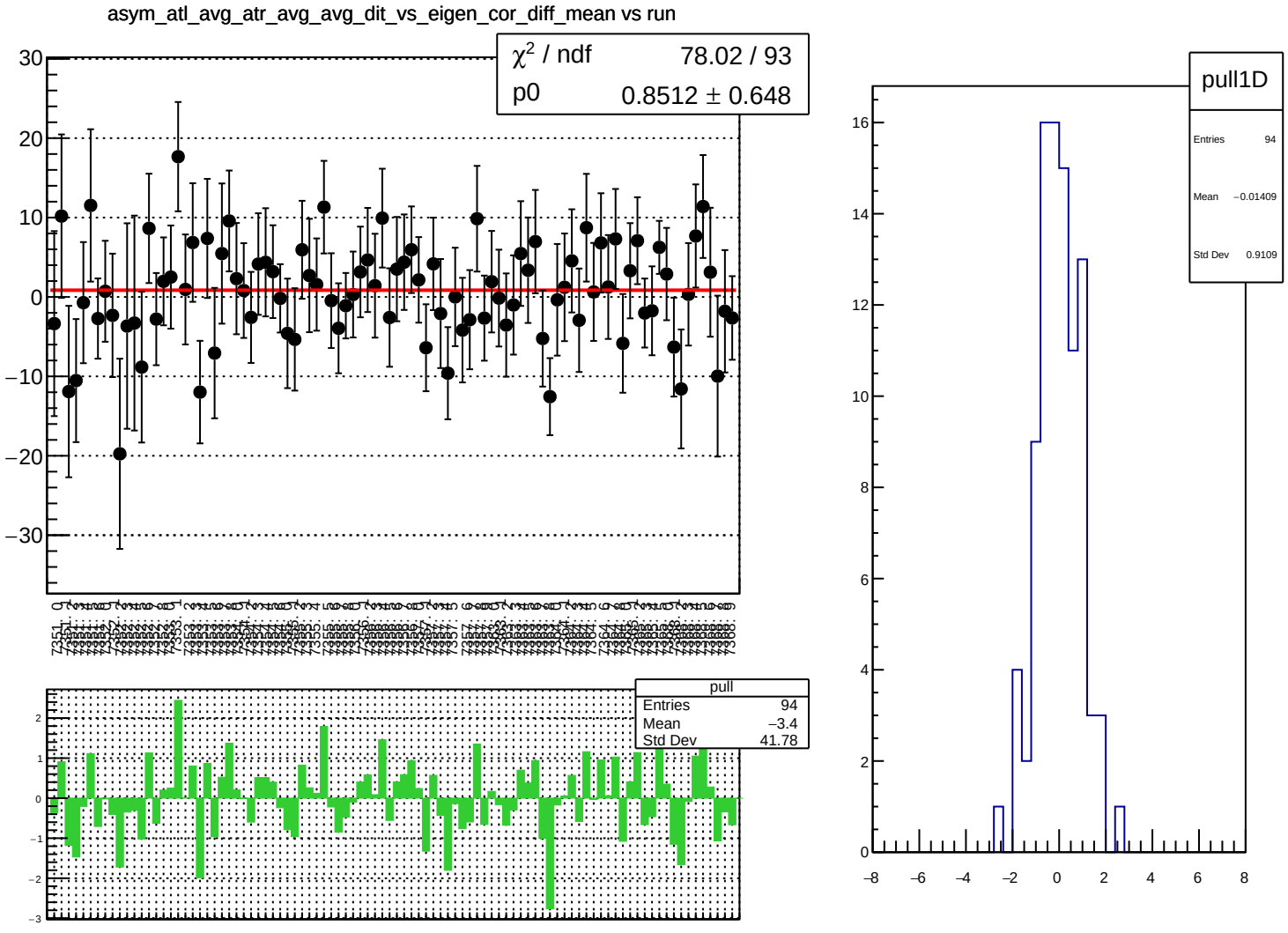

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 146.1 / 93
p0 −3.452e−13 ± 1.893e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 94
Mean 237.3
Std Dev 0
pull1D
Entries 94
Mean −0.02597
Std Dev 1.246
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

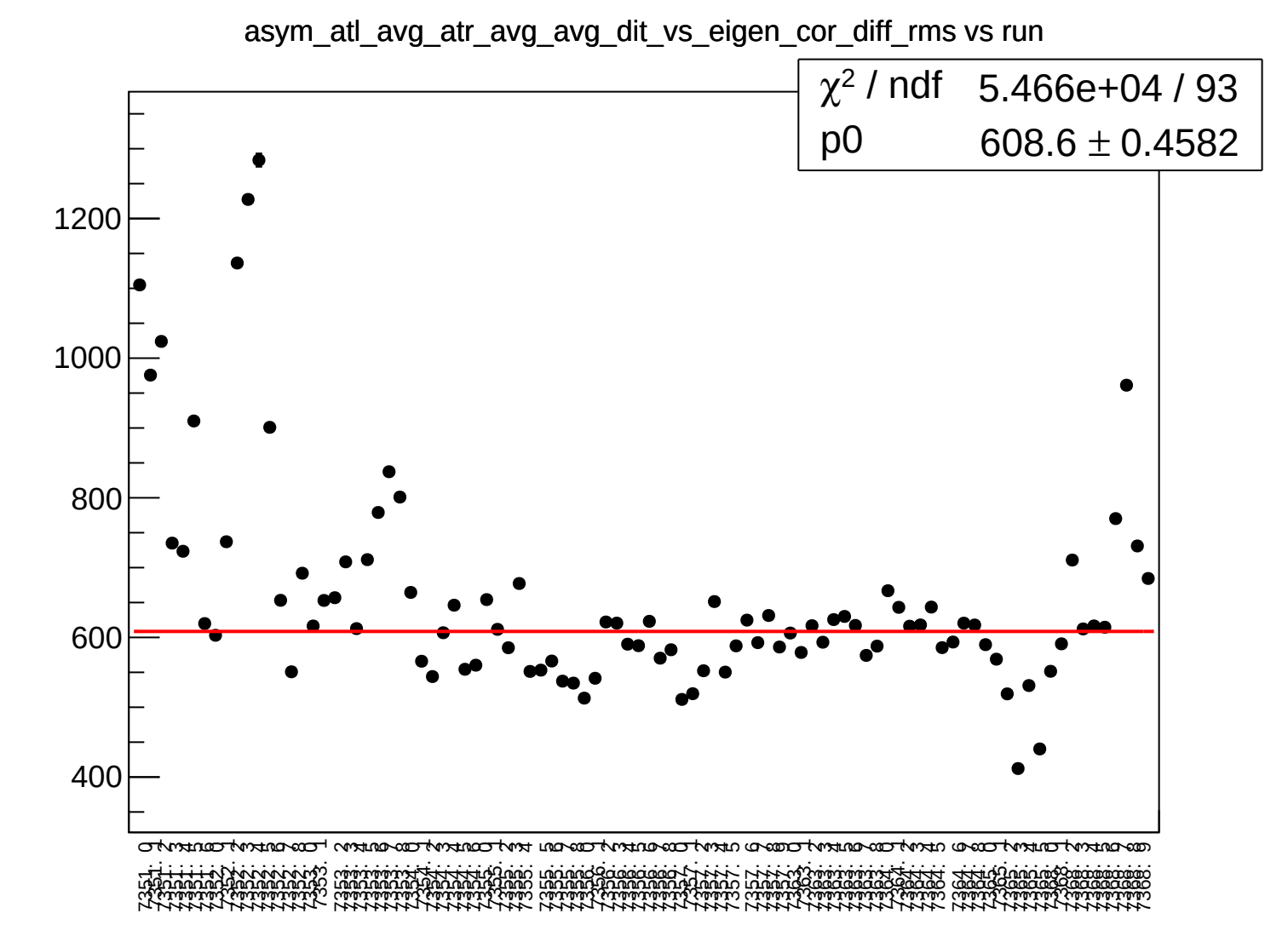

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.321e+06 / 93
p0 9.44e−11 ± 1.338e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

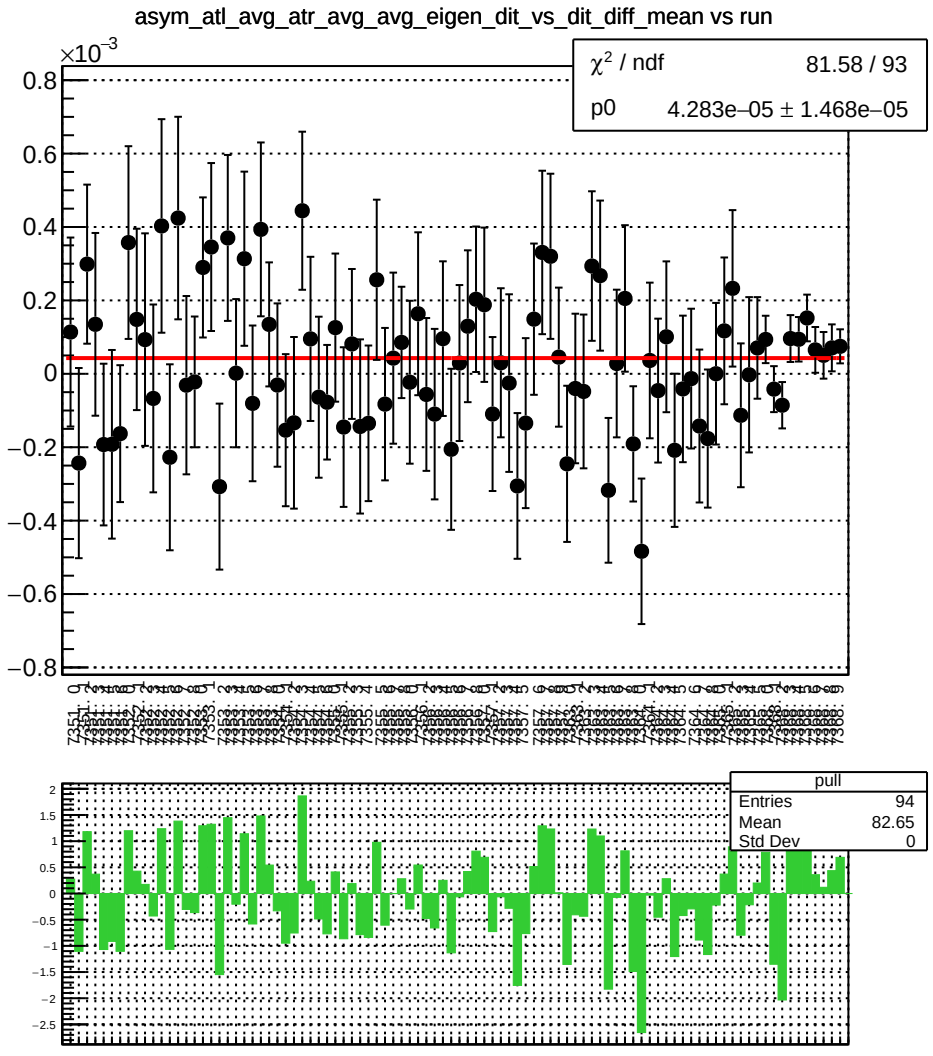

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 78.02 / 93
p0 0.8512 ± 0.648
pull
Entries 94
Mean −3.4
Std Dev 41.78

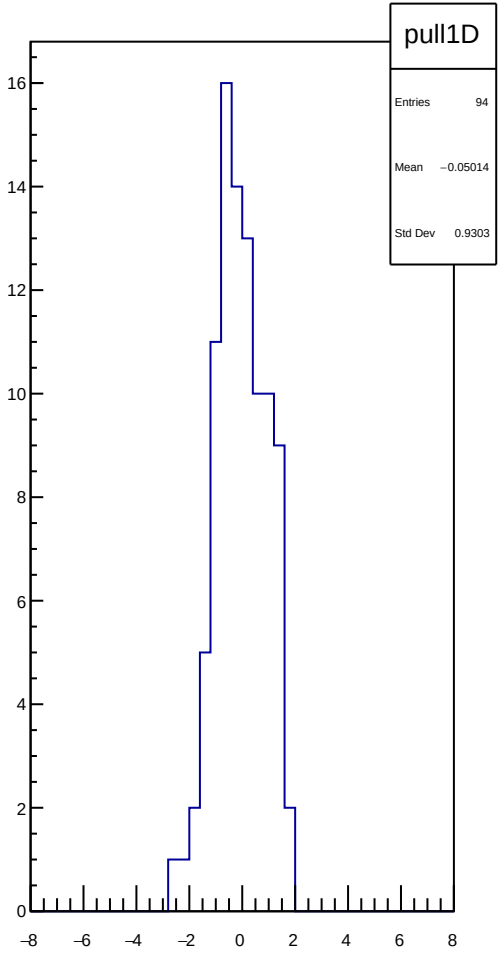

pull1D
Entries 94
Mean −0.01409
Std Dev 0.9109

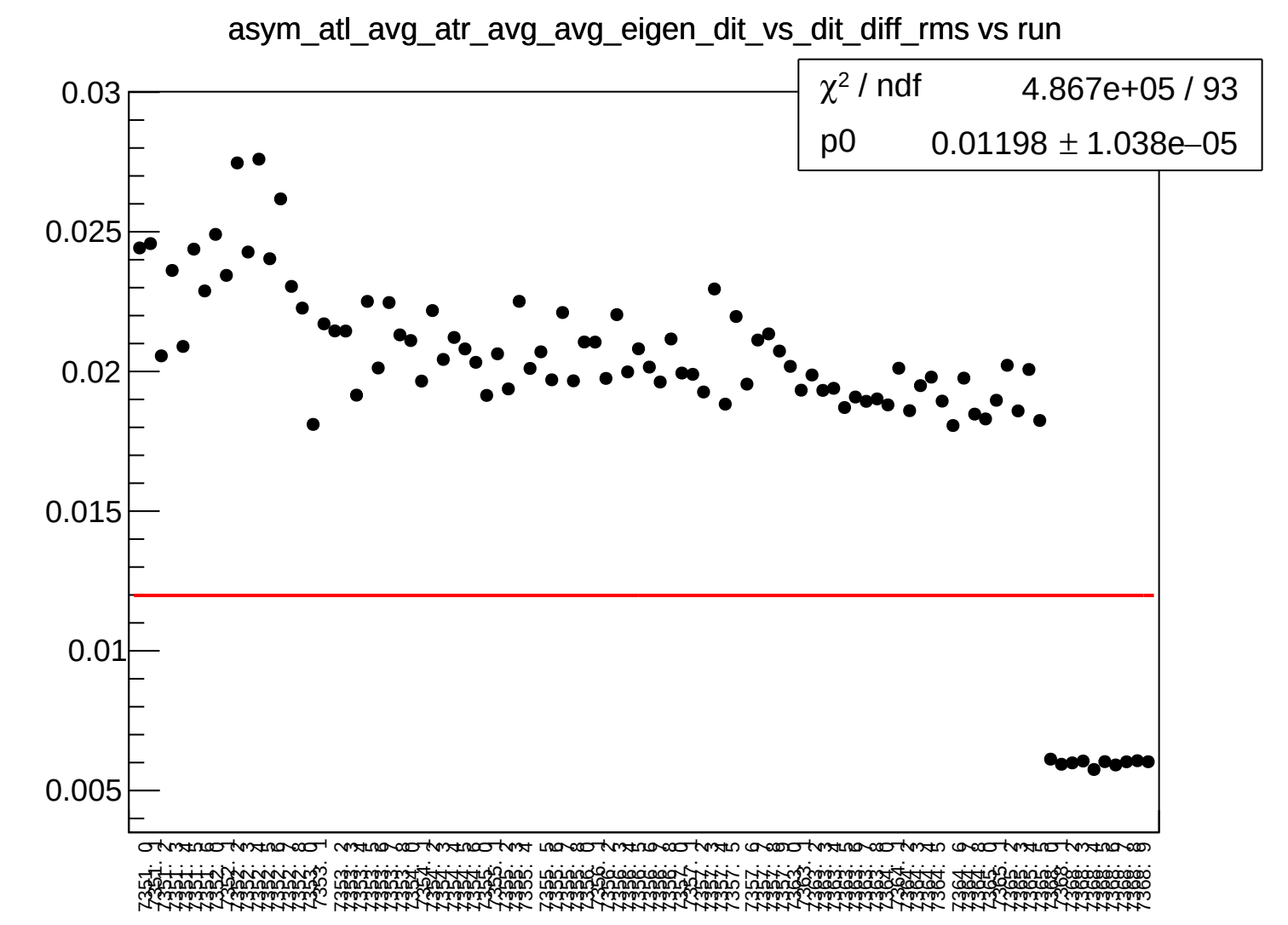

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.466e+04 / 93
p0 608.6 ± 0.4582
1200
1000
800
600
400

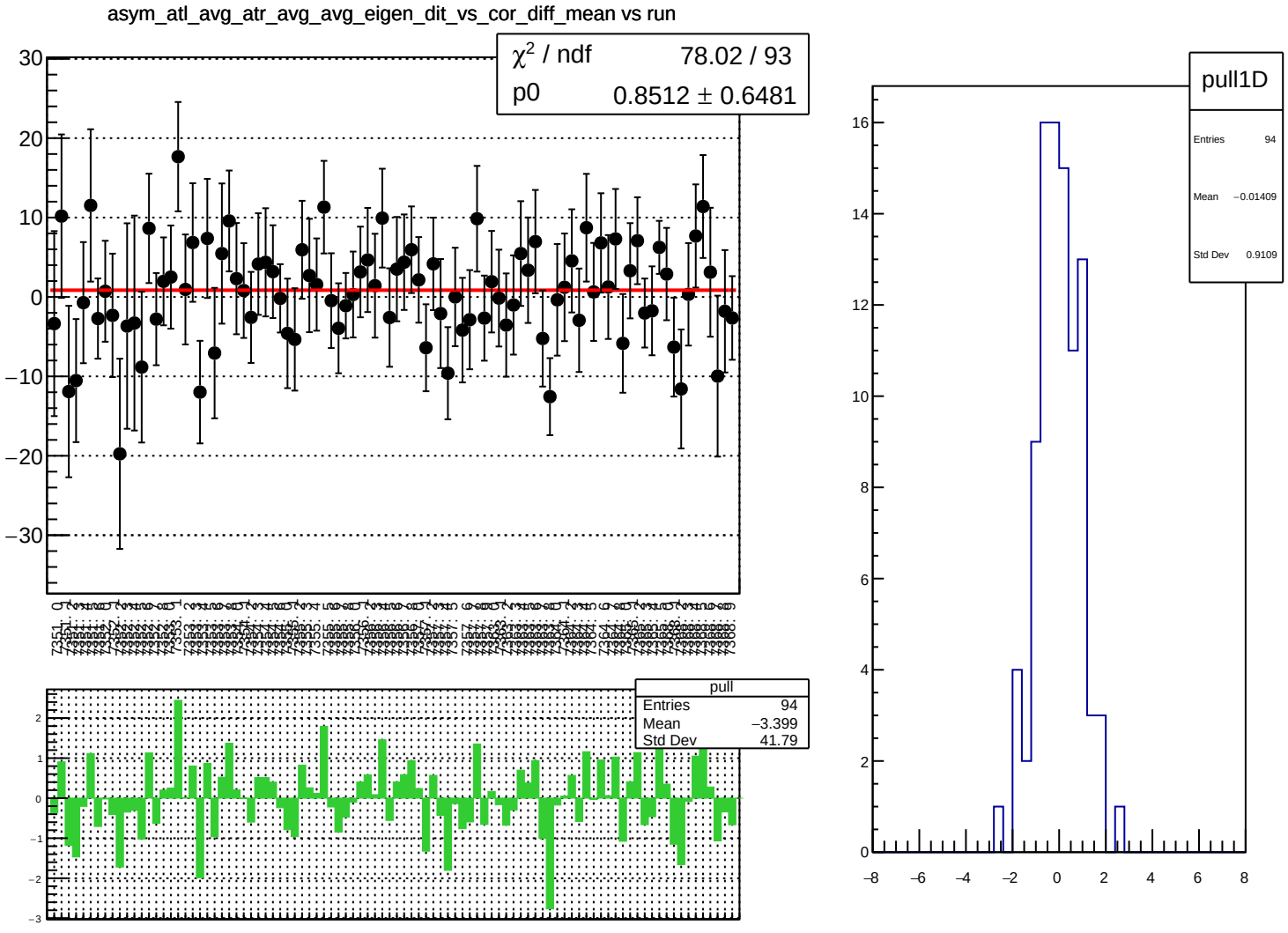

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.02 / 93
p0 0.8512 ± 0.648
pull
Entries 94
Mean −3.4
Std Dev 41.78
pull1D
Entries 94
Mean −0.01409
Std Dev 0.9109

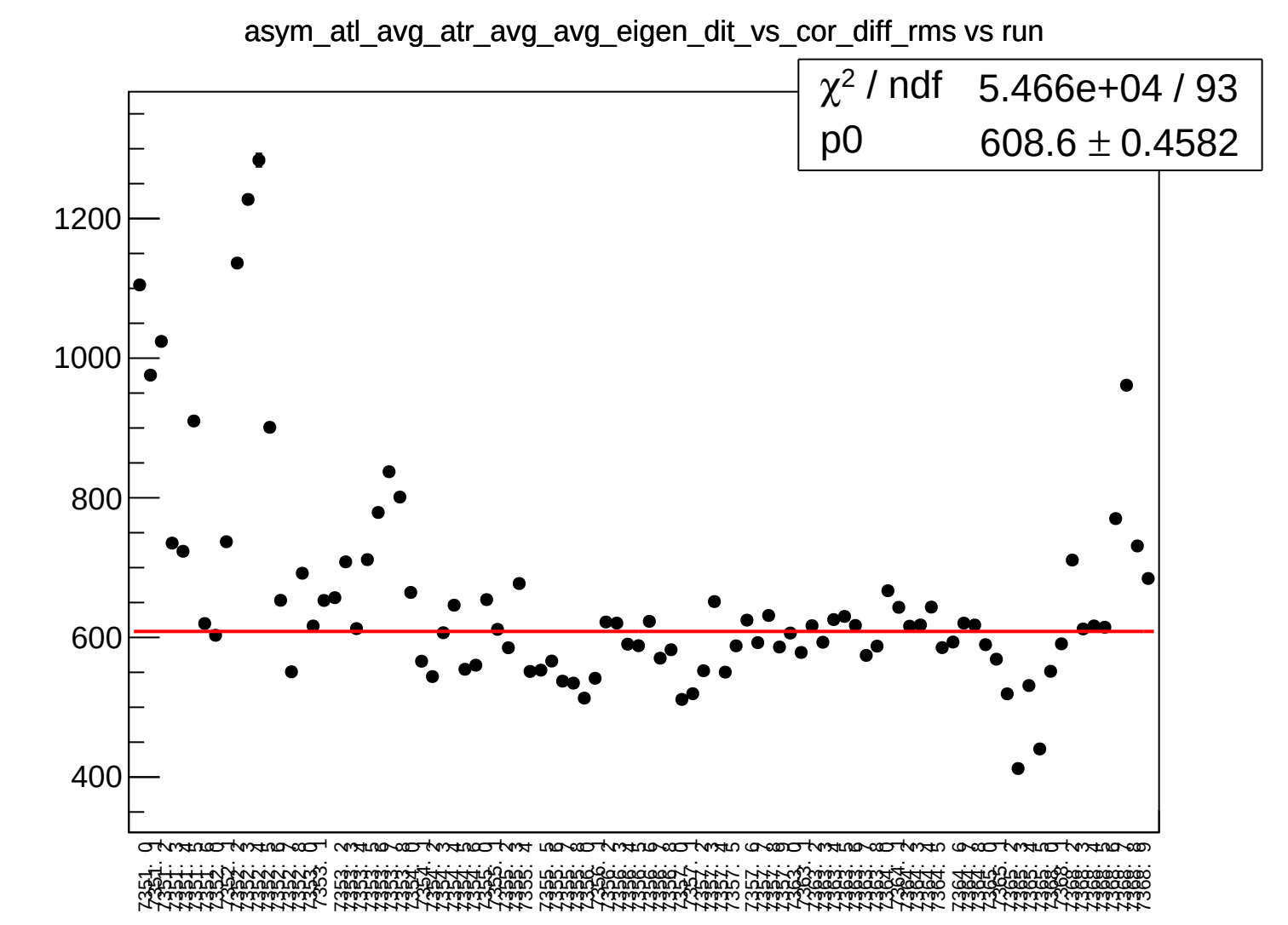

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.466e+04 / 93
p0 608.6 ± 0.4582
1200
1000
800
600
400

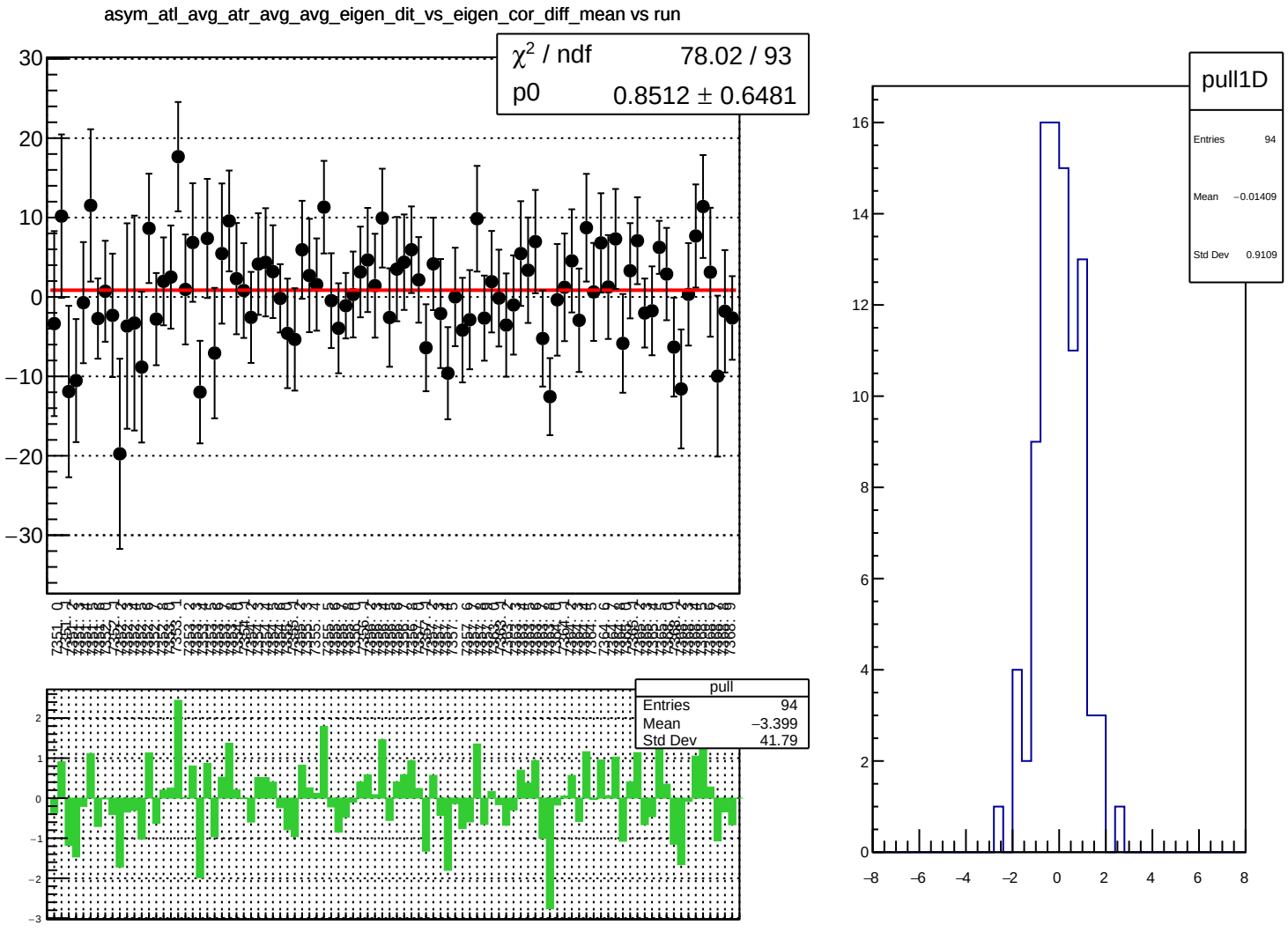

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 81.58 / 93
p0 4.283e−05 ± 1.468e−05
pull
Entries 94
Mean 82.65
Std Dev 0

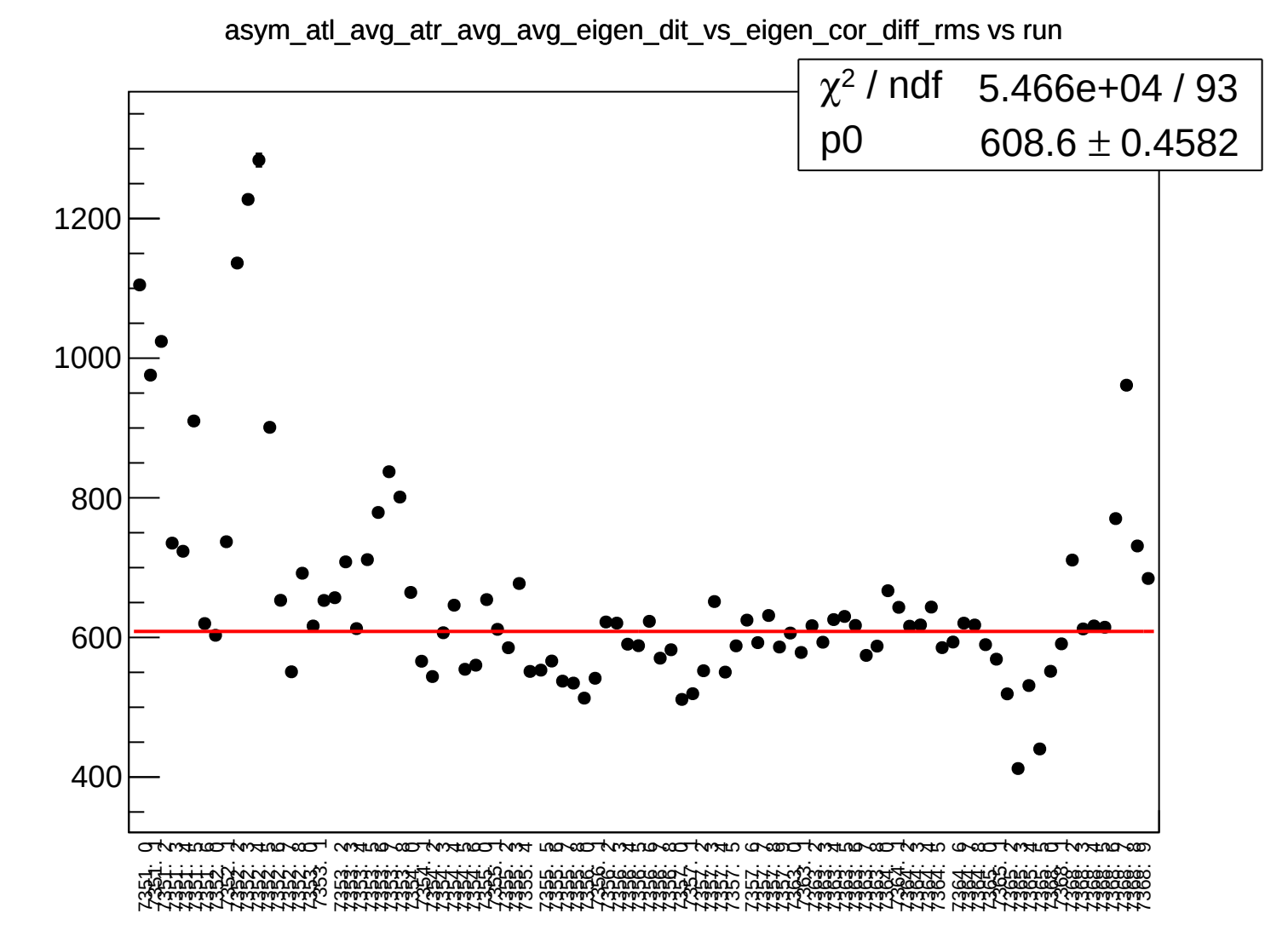

pull1D
Entries 94
Mean −0.05014
Std Dev 0.9303

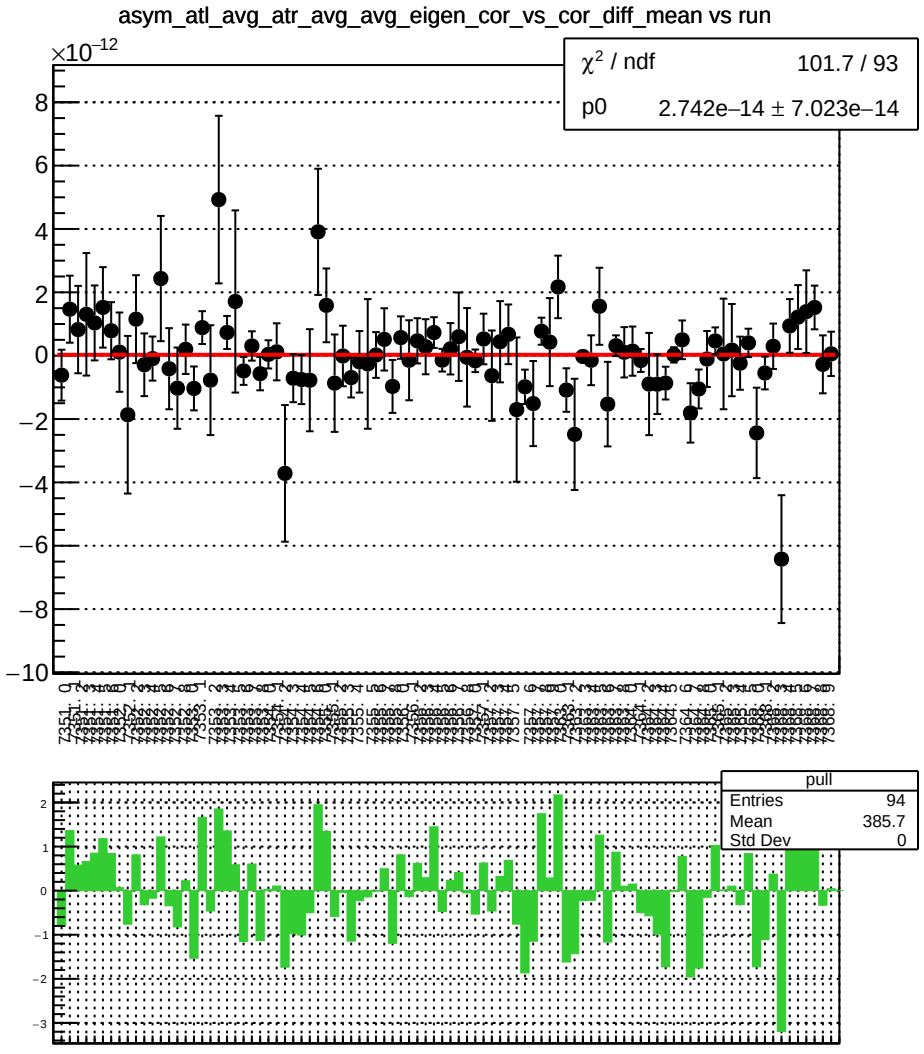

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.867e+05 / 93
p0 0.01198 ± 1.038e−05
0.03
0.025
0.02
0.015
0.01
0.005

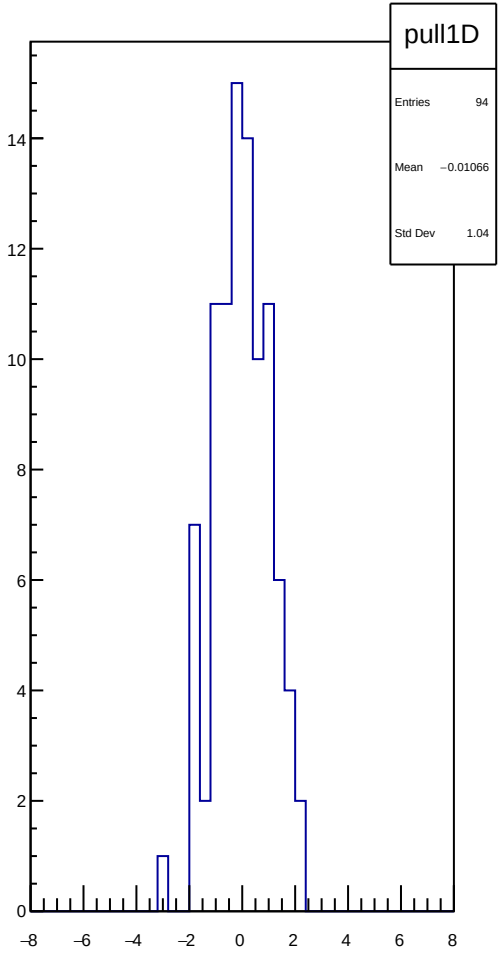

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.02 / 93
p0 0.8512 ± 0.6481
pull
Entries 94
Mean −3.399
Std Dev 41.79
pull1D
Entries 94
Mean −0.01409
Std Dev 0.9109

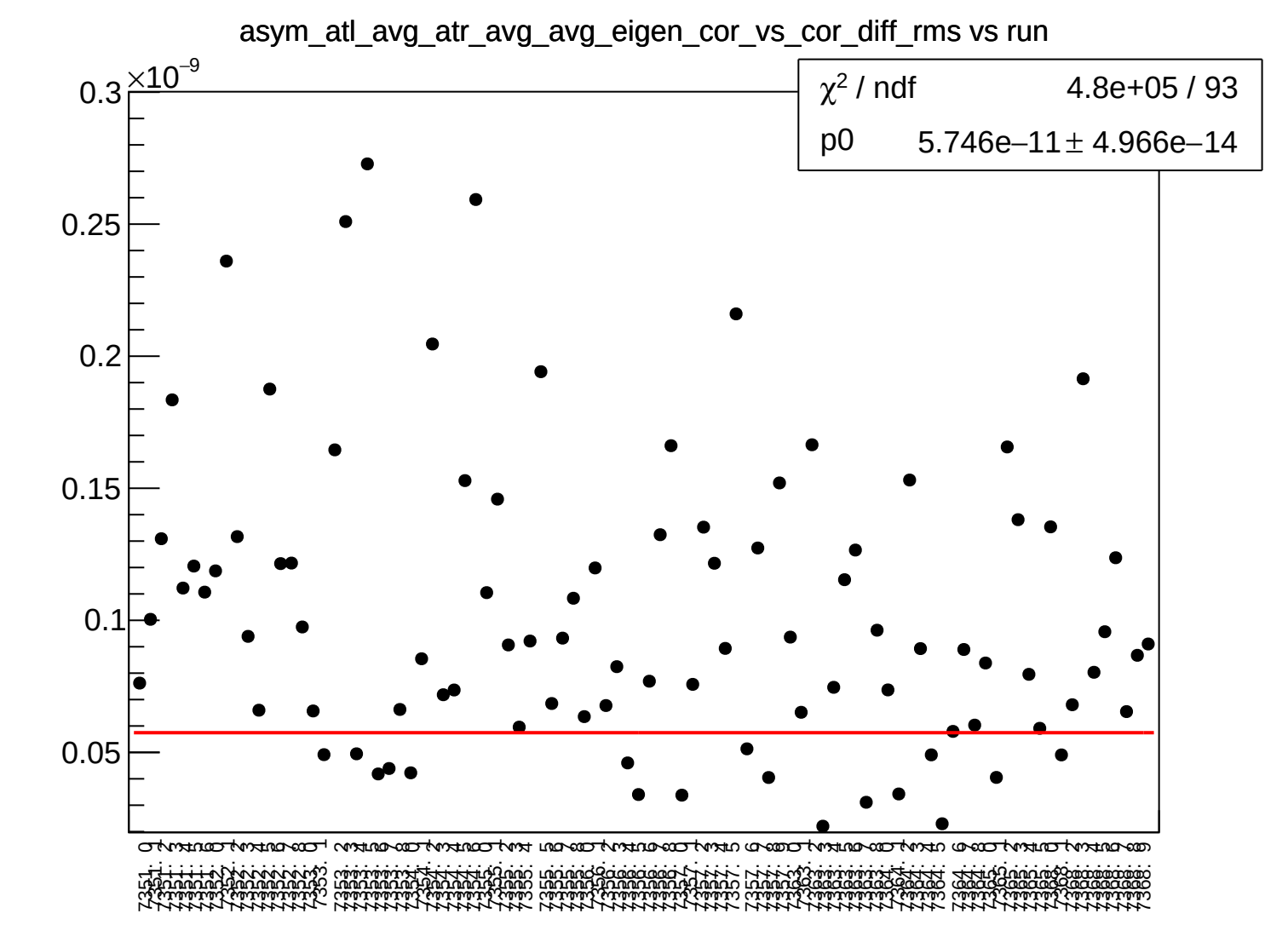

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.466e+04 / 93
p0 608.6 ± 0.4582
1200
1000
800
600
400

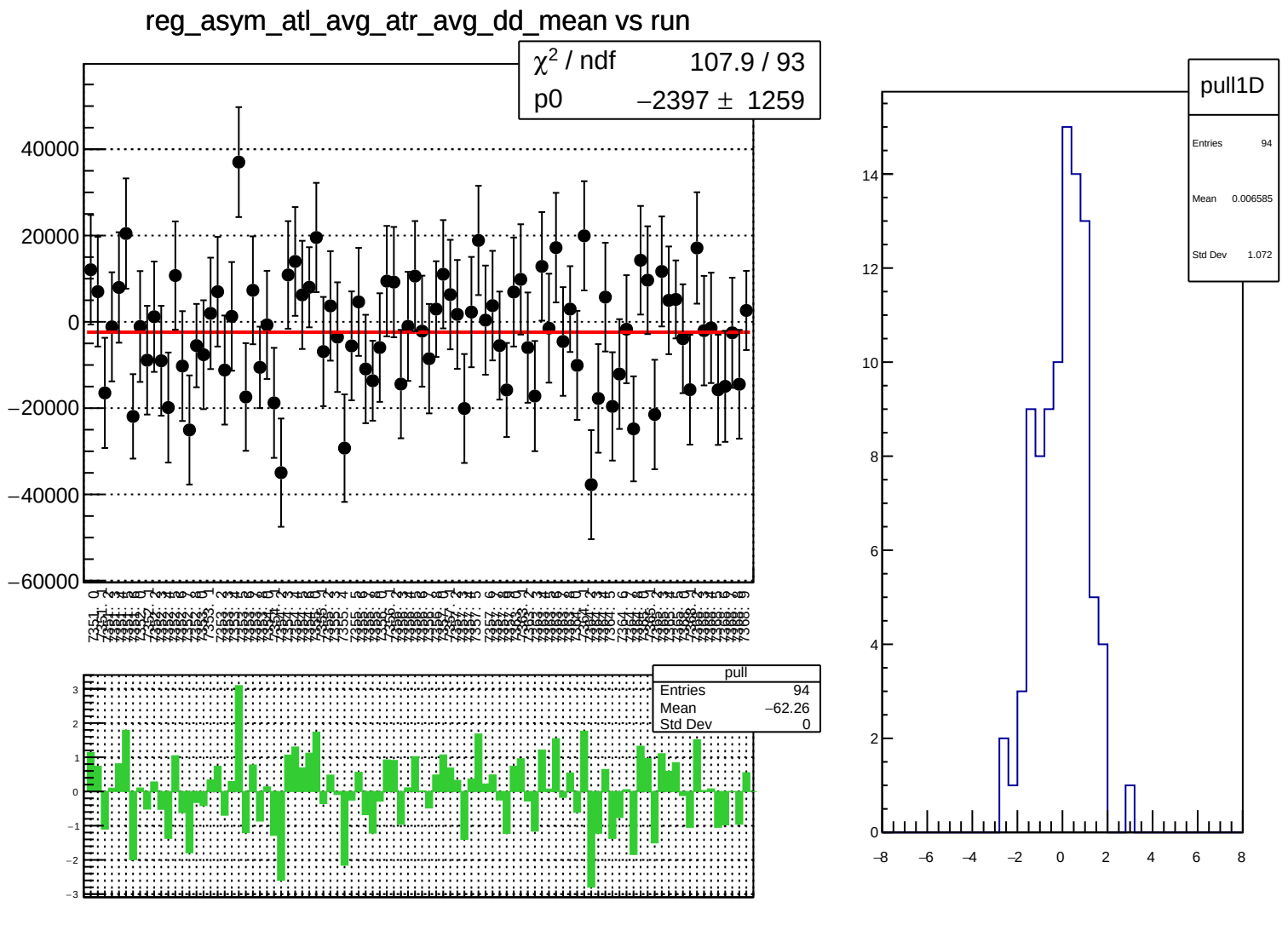

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.02 / 93
p0 0.8512 ± 0.6481
pull
Entries 94
Mean −3.399
Std Dev 41.79
pull1D
Entries 94
Mean −0.01409
Std Dev 0.9109

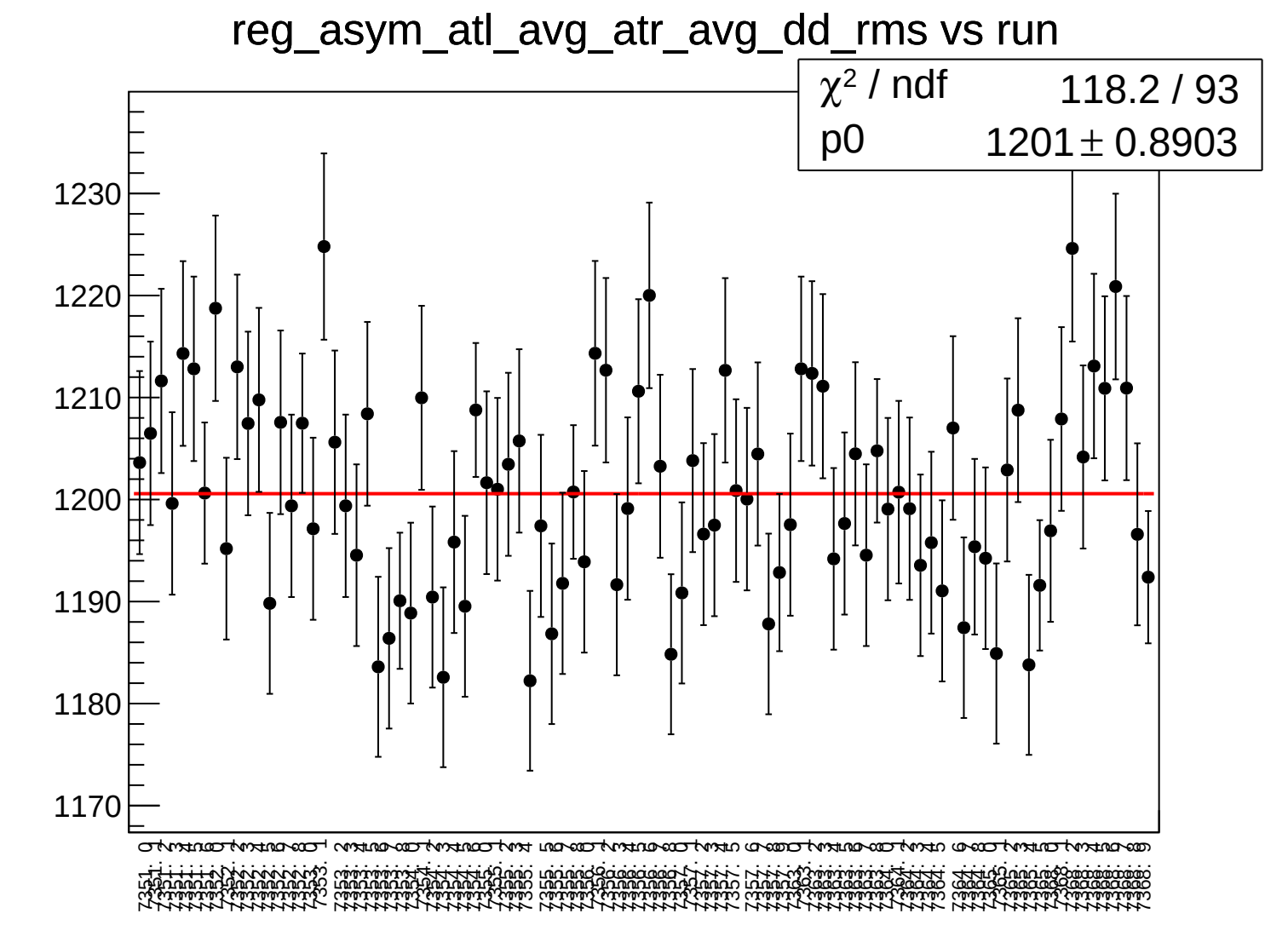

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.466e+04 / 93
p0 608.6 ± 0.4582
1200
1000
800
600
400

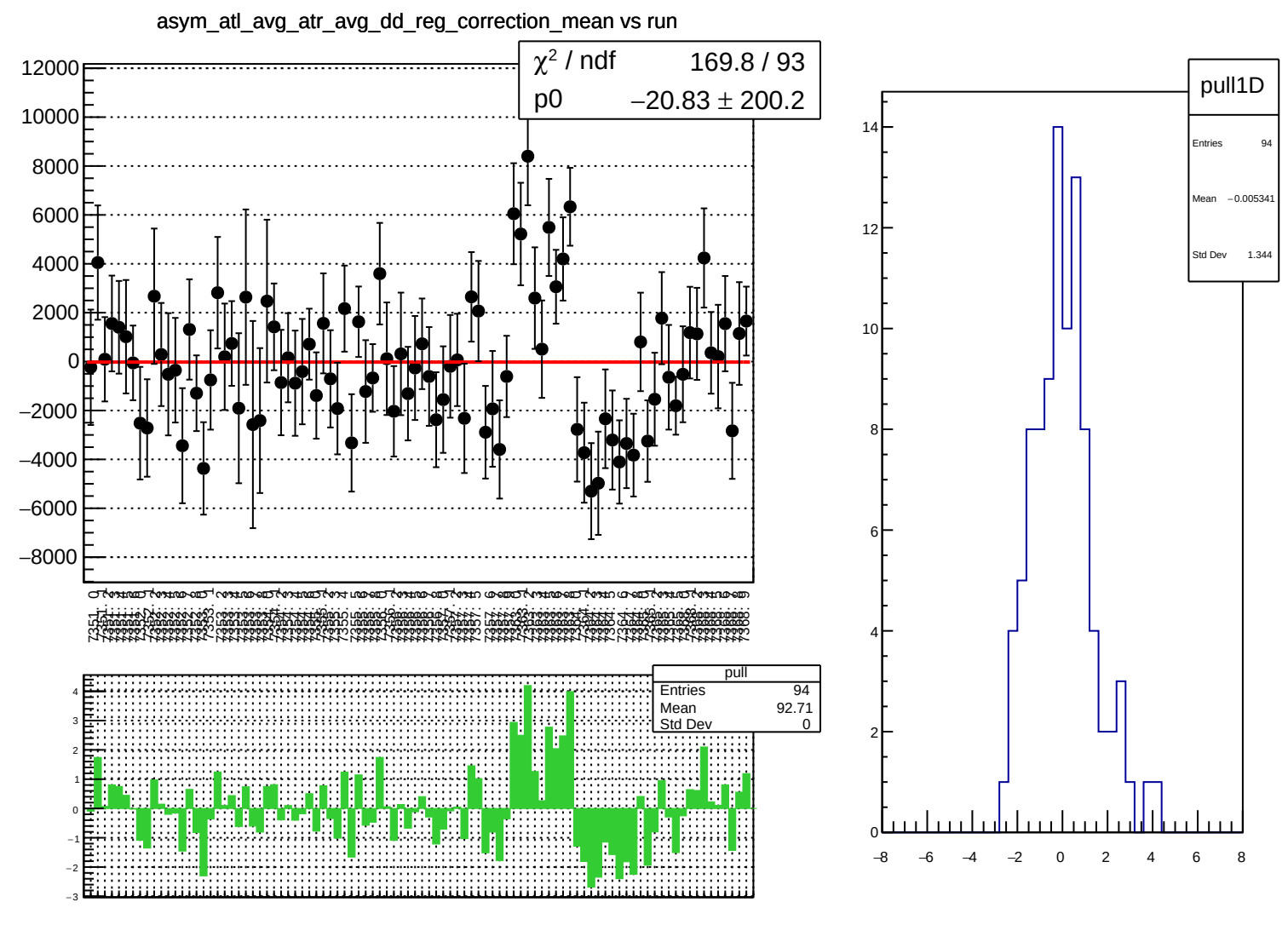

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 101.7 / 93
p0 2.742e−14 ± 7.023e−14
pull
Entries 94
Mean 385.7
Std Dev 0

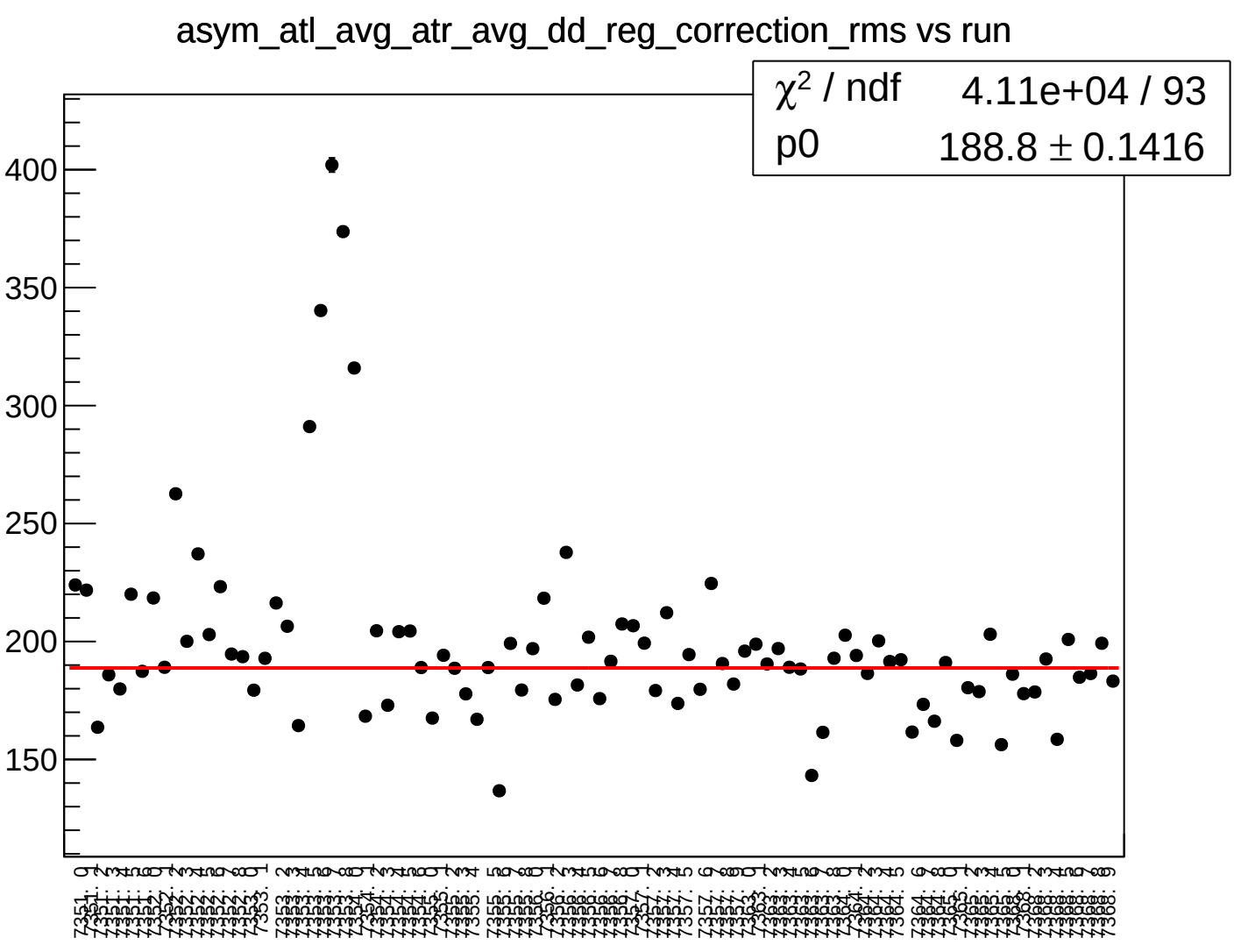

pull1D
Entries 94
Mean −0.01066
Std Dev 1.04

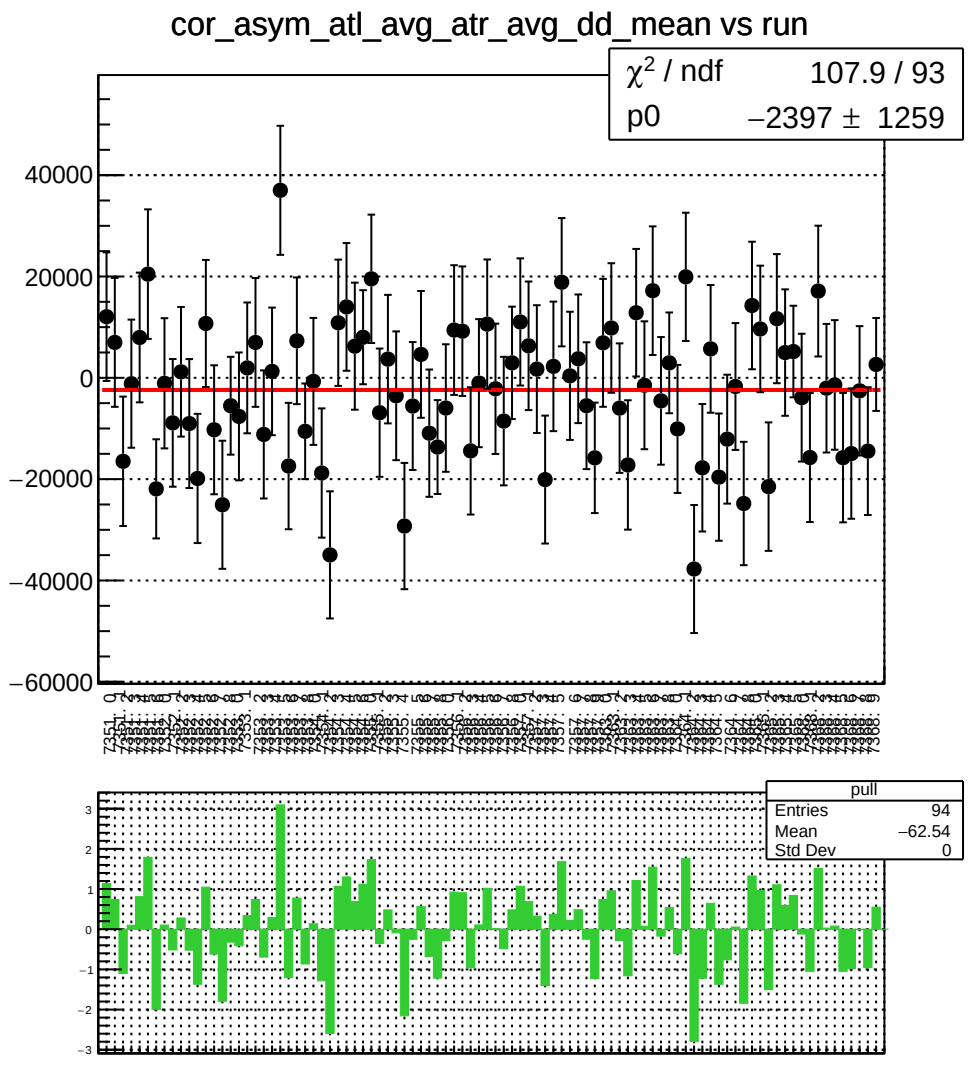

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.3
0.25
0.2
0.15
0.1
0.05
χ² / ndf 4.8e+05 / 93
p0 5.746e−11 ± 4.966e−14

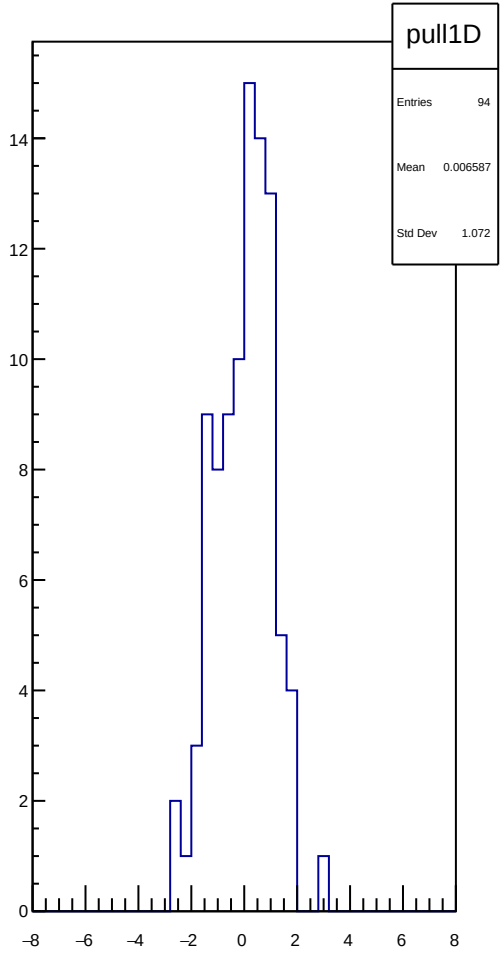

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 107.9 / 93
p0 −2397 ± 1259
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −62.26
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.006585
Std Dev 1.072
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

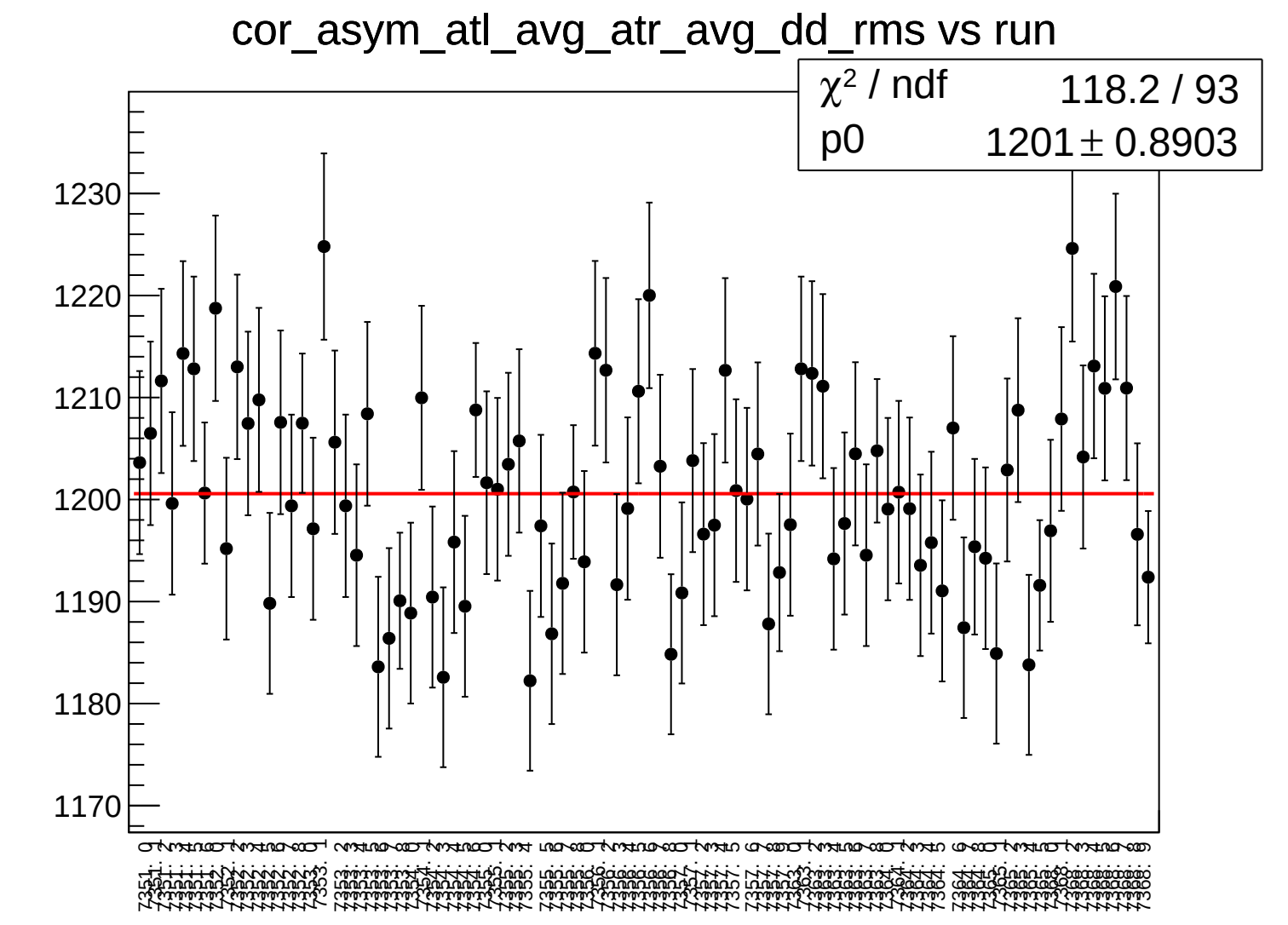

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 118.2 / 93
p0 1201 ± 0.8903
1230
1220
1210
1200
1190
1180
1170

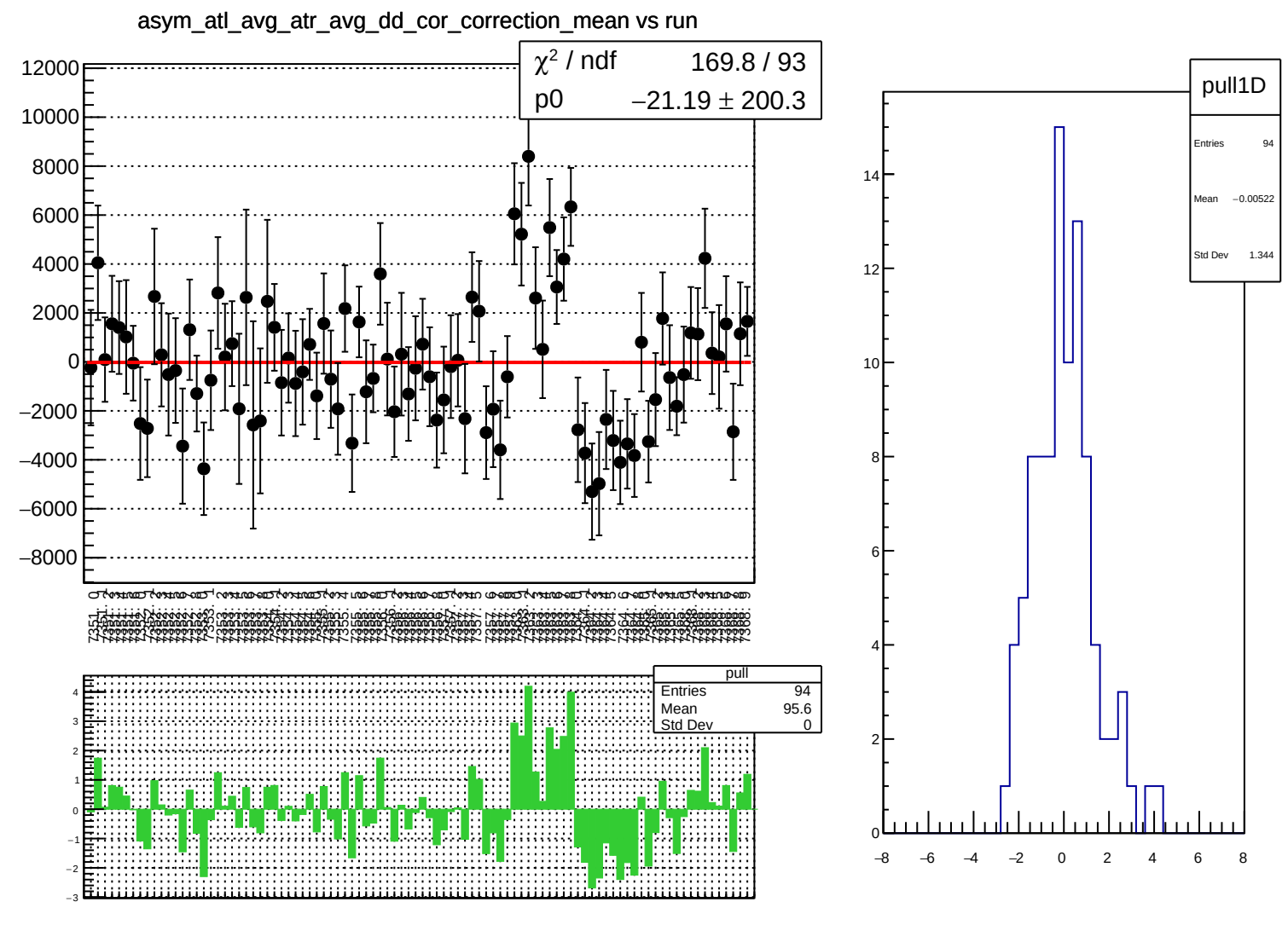

asym_atl_avg_atr_avg_dd_reg_correction_mean vs run
χ² / ndf 169.8 / 93
p0 −20.83 ± 200.2
pull
Entries 94
Mean 92.71
Std Dev 0
pull1D
Entries 94
Mean −0.005341
Std Dev 1.344

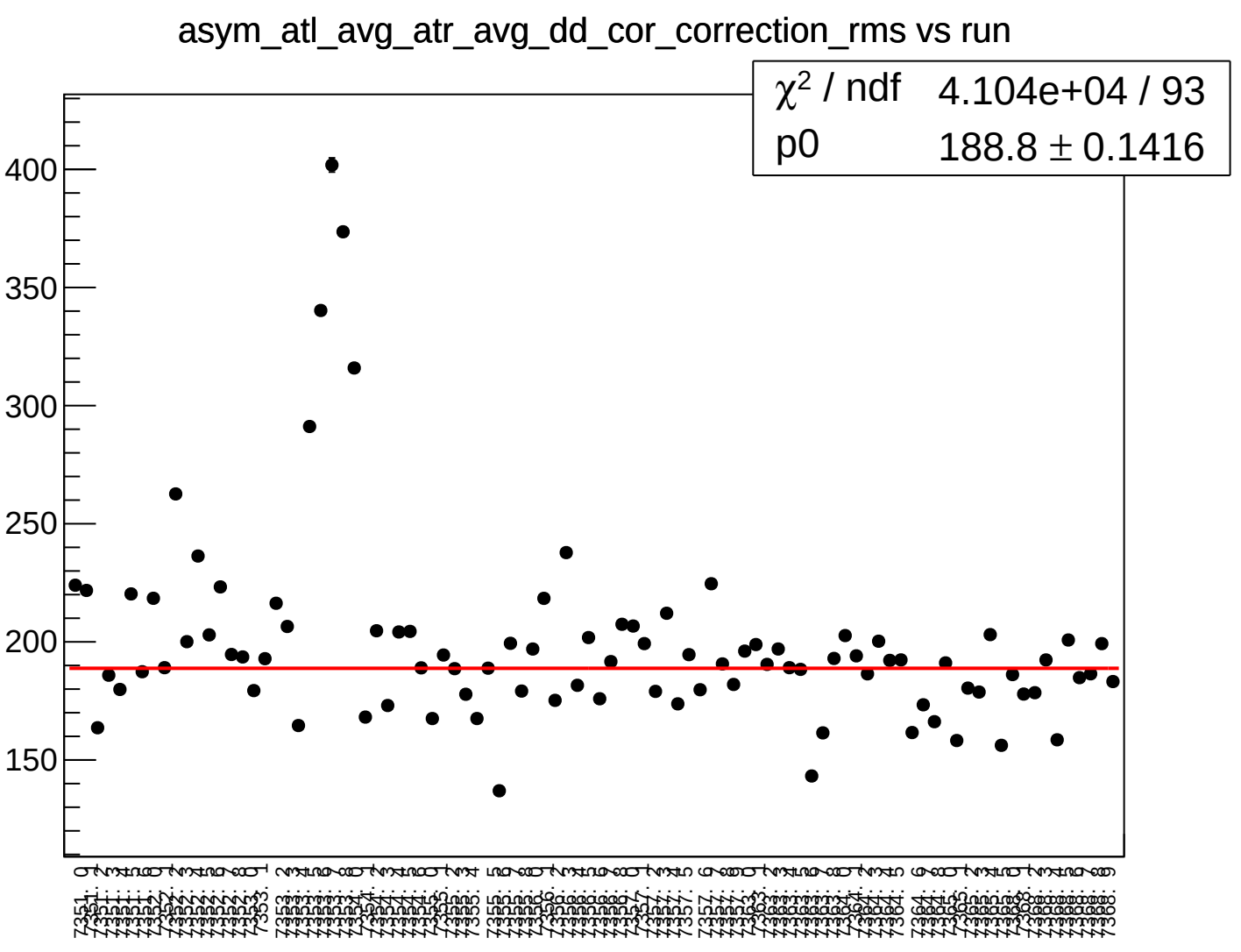

asym_atl_avg_atr_avg_dd_reg_correction_rms vs run
χ² / ndf 4.11e+04 / 93
p0 188.8 ± 0.1416
400
350
300
250
200
150

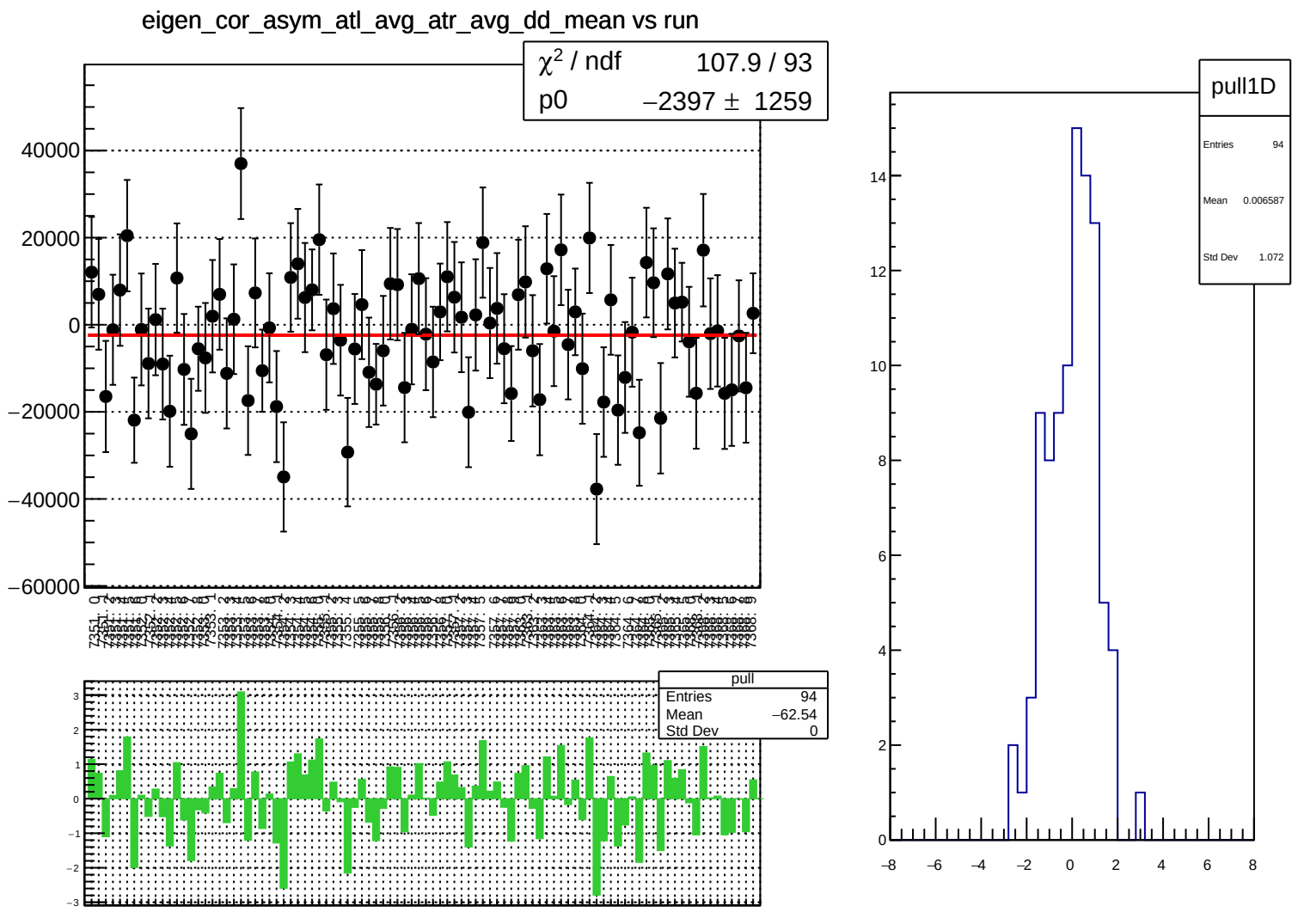

cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 107.9 / 93
p0 −2397 ± 1259
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −62.54
Std Dev 0
3
2
1
0
−1
−2
−3

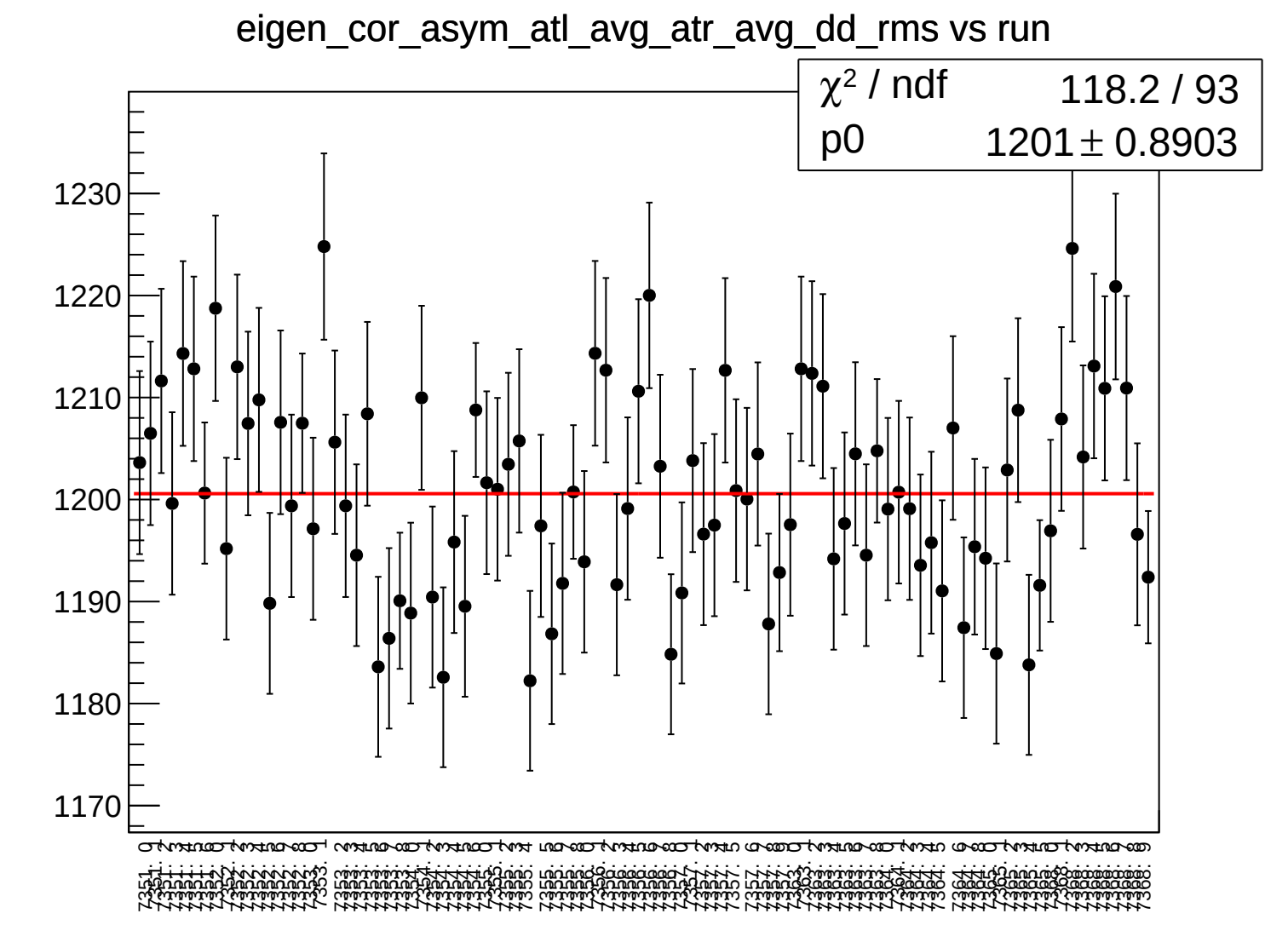

pull1D
Entries 94
Mean 0.006587
Std Dev 1.072
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

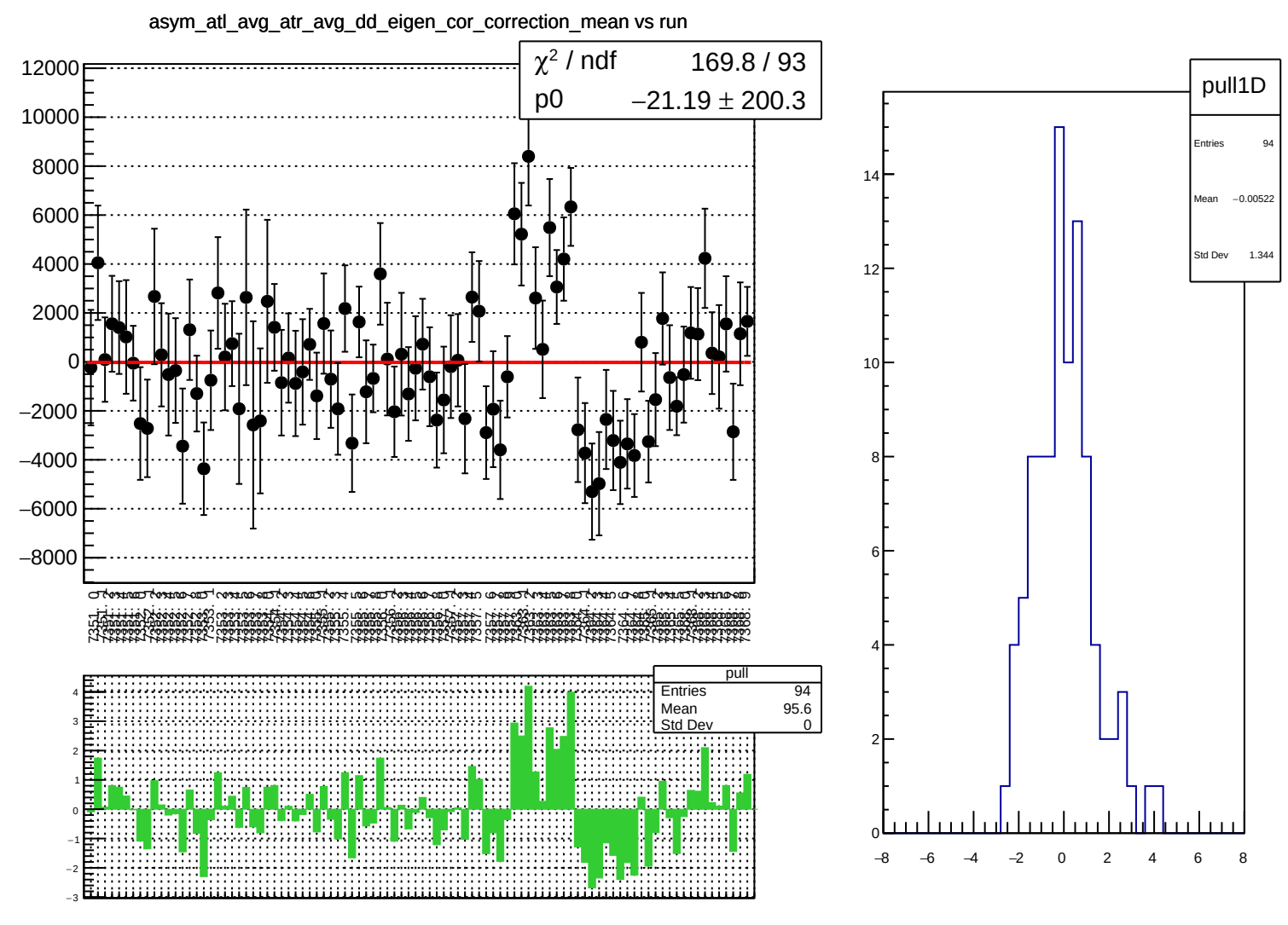

cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 118.2 / 93
p0 1201 ± 0.8903
1230
1220
1210
1200
1190
1180
1170

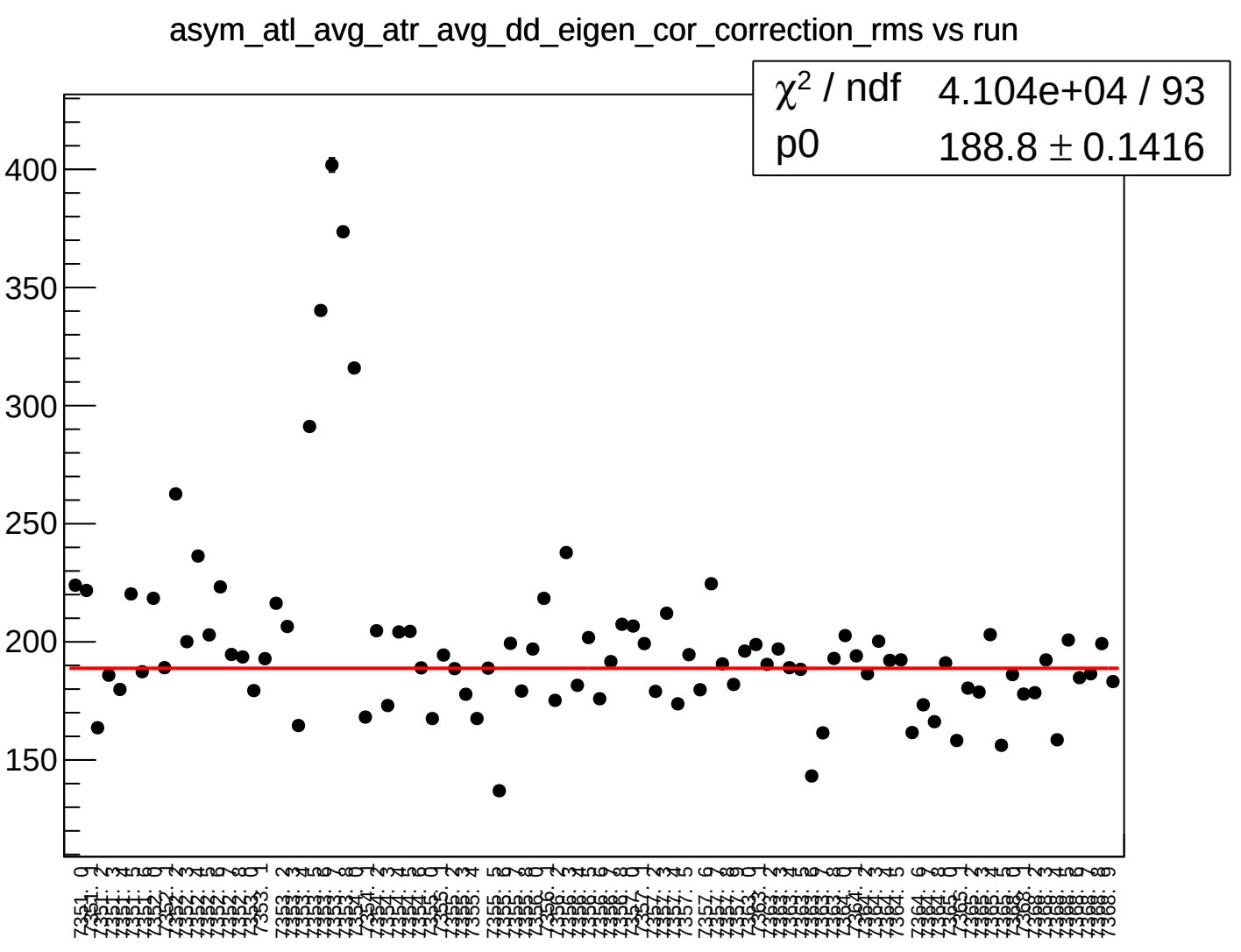

asym_atl_avg_atr_avg_dd_cor_correction_mean vs run
χ² / ndf 169.8 / 93
p0 −21.19 ± 200.3
pull
Entries 94
Mean 95.6
Std Dev 0
pull1D
Entries 94
Mean −0.00522
Std Dev 1.344

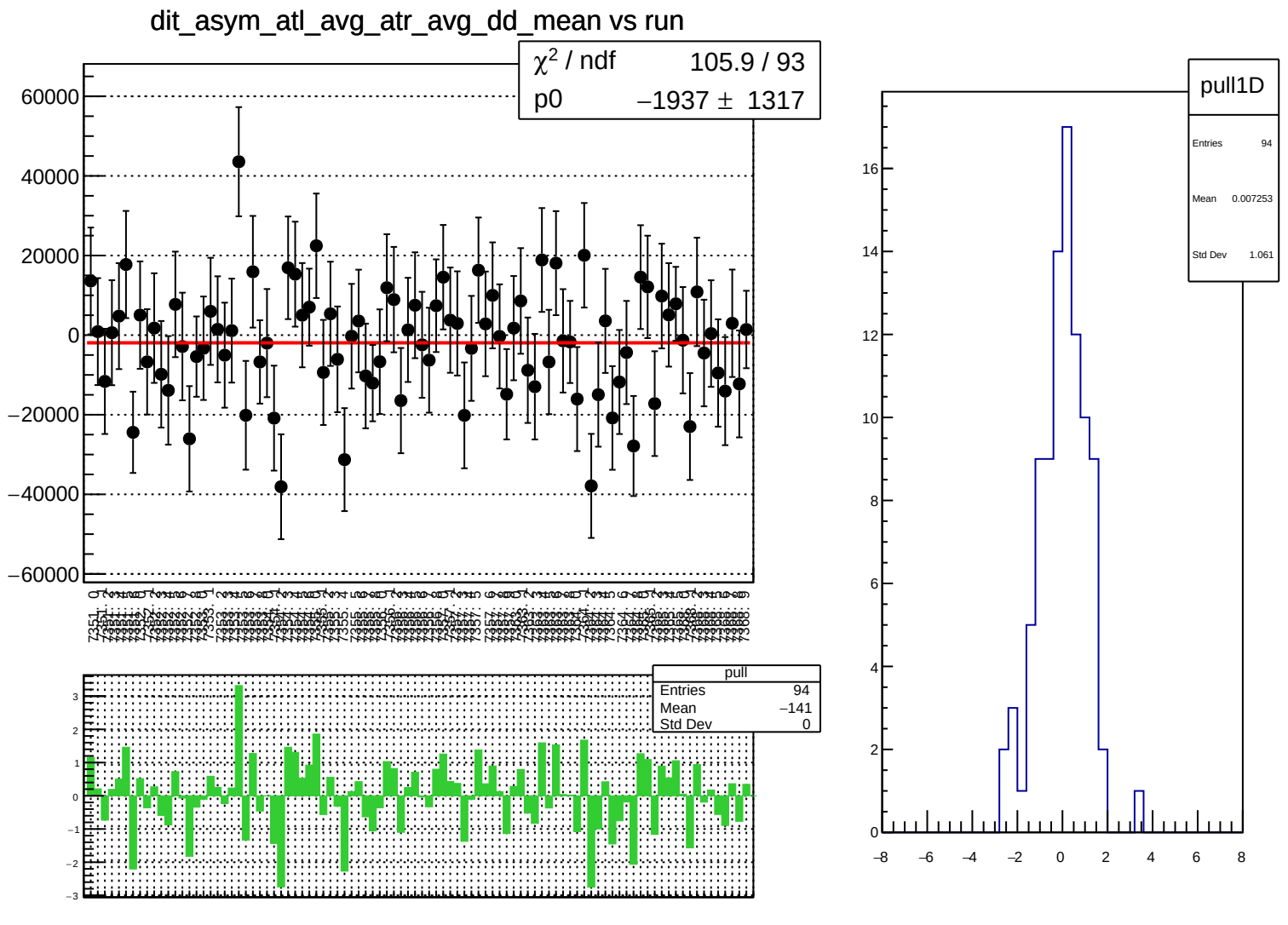

asym_atl_avg_atr_avg_dd_cor_correction_rms vs run
χ² / ndf 4.104e+04 / 93
p0 188.8 ± 0.1416
400
350
300
250
200
150

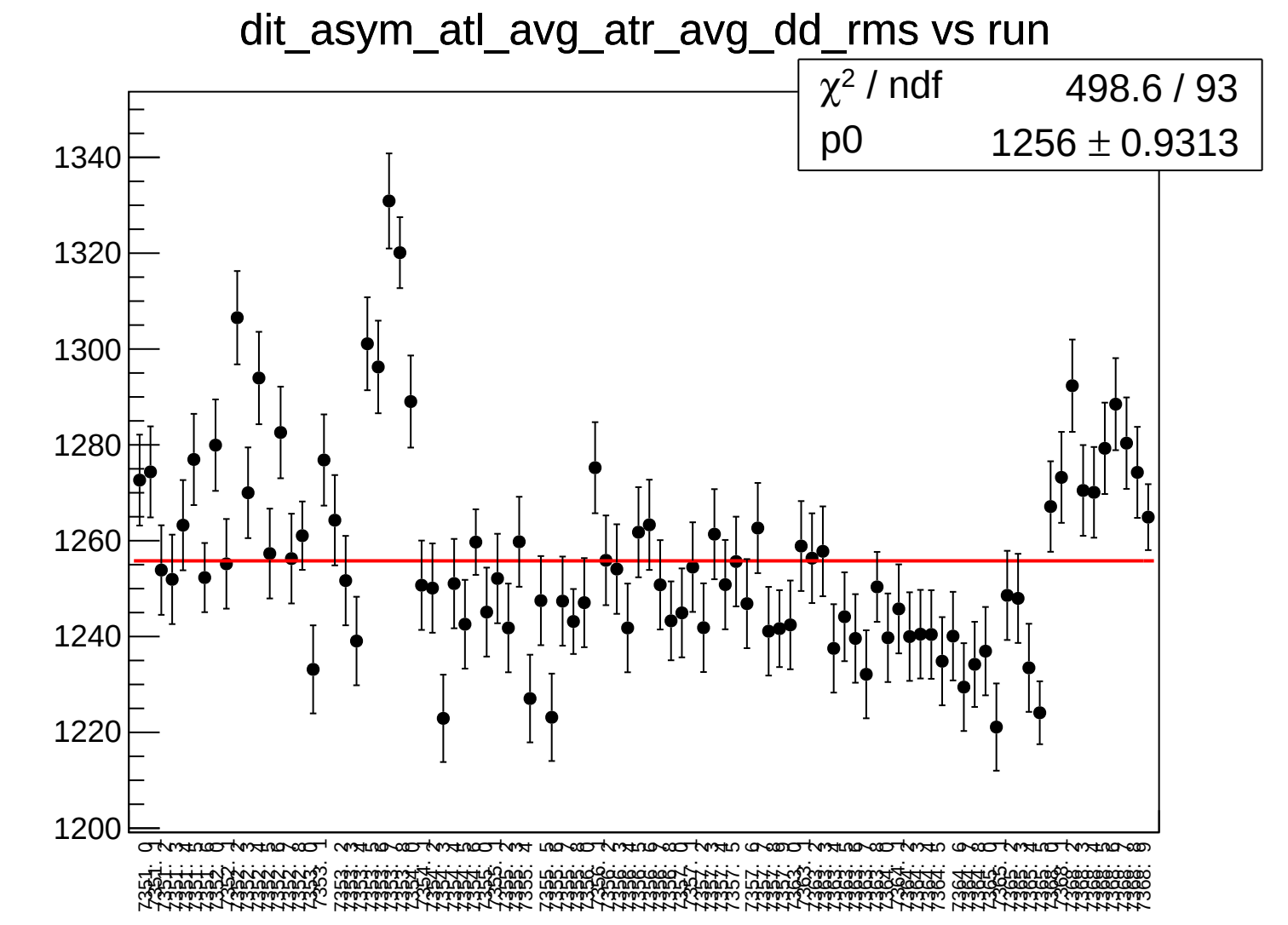

eigen_cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 107.9 / 93
p0 −2397 ± 1259
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −62.54
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.006587
Std Dev 1.072
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

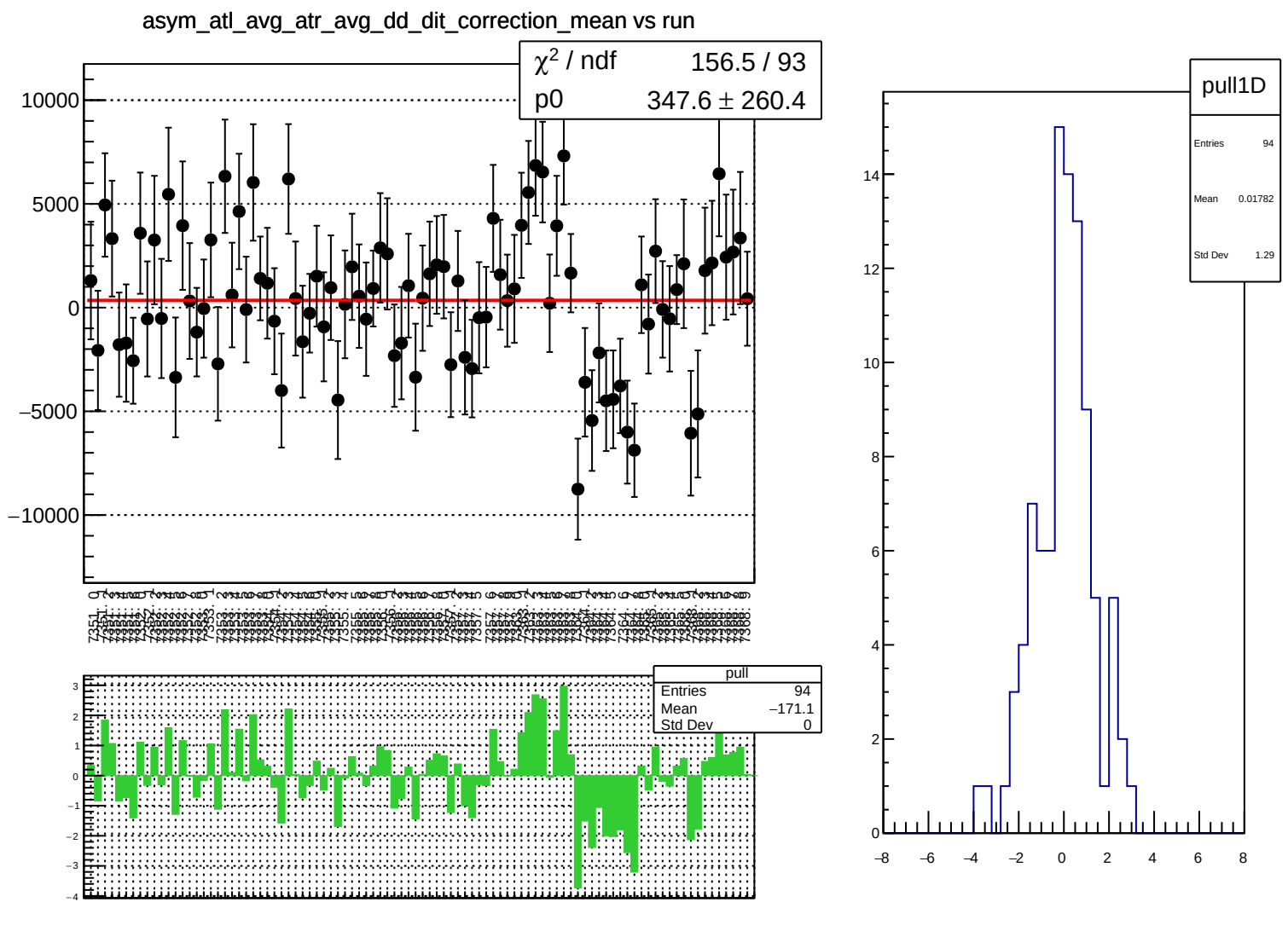

eigen_cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 118.2 / 93
p0 1201 ± 0.8903
1230
1220
1210
1200
1190
1180
1170

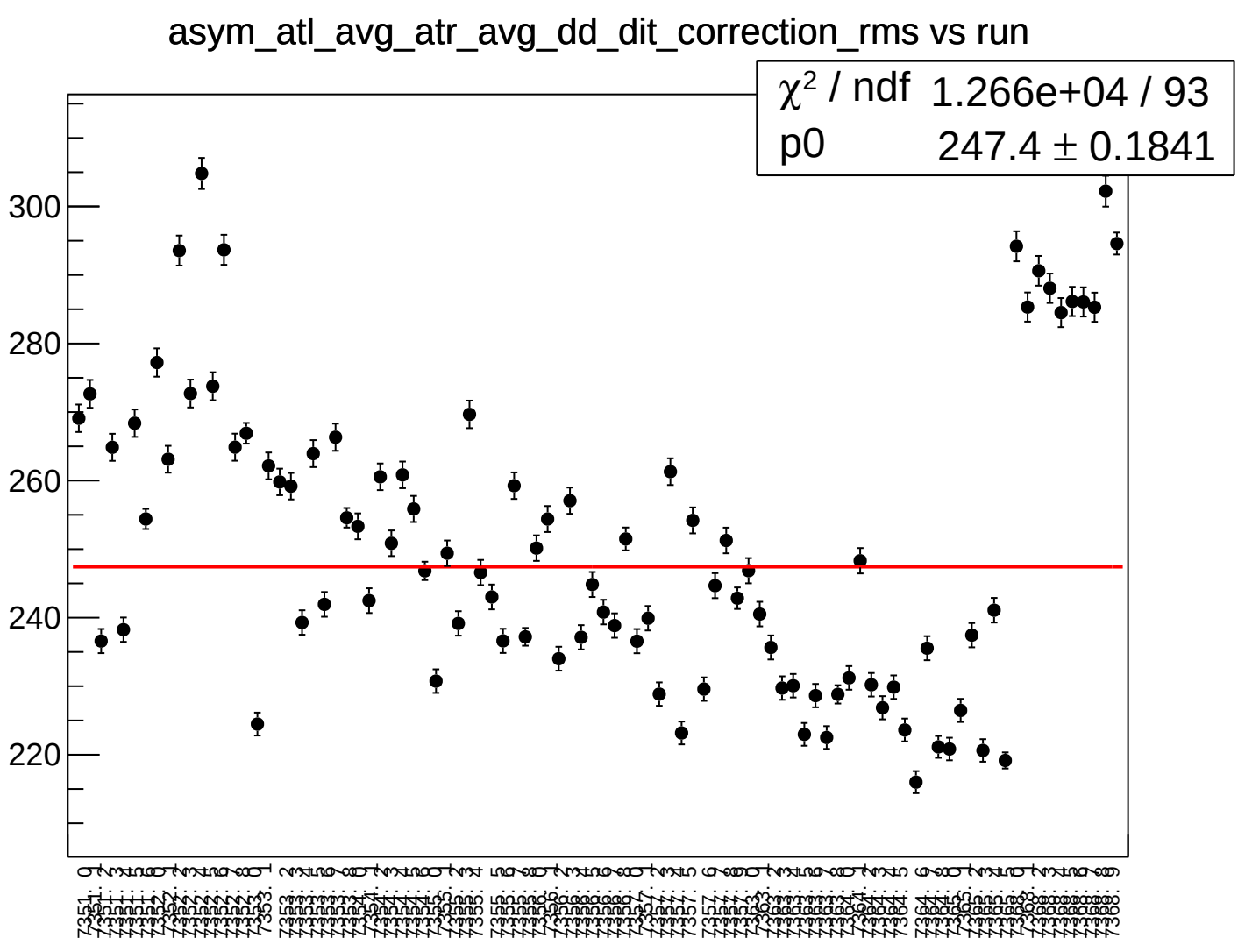

asym_atl_avg_atr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 169.8 / 93
p0 −21.19 ± 200.3
pull
Entries 94
Mean 95.6
Std Dev 0
pull1D
Entries 94
Mean −0.00522
Std Dev 1.344

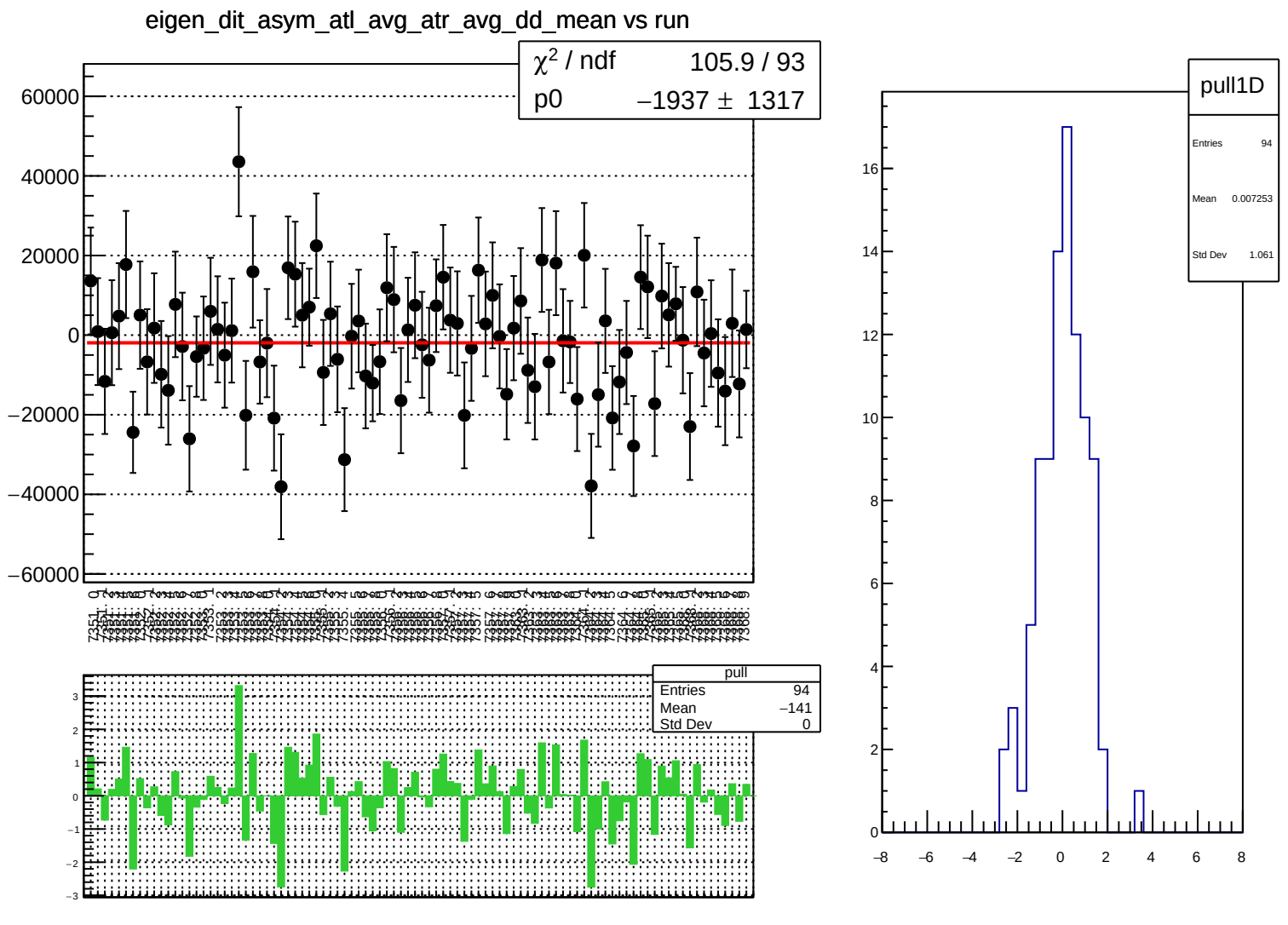

asym_atl_avg_atr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 4.104e+04 / 93
p0 188.8 ± 0.1416
400
350
300
250
200
150

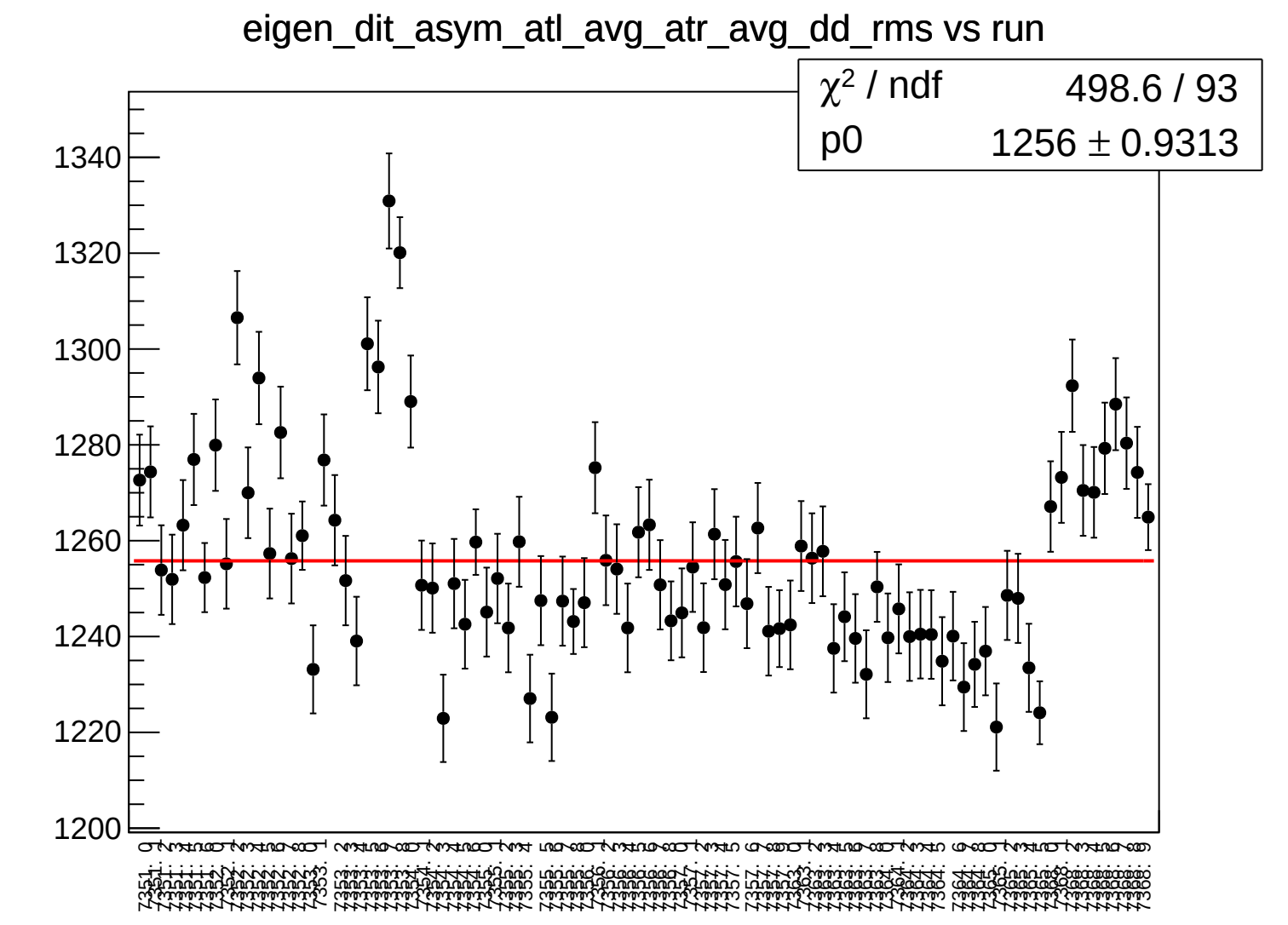

dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 105.9 / 93
p0 −1937 ± 1317
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −141
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.007253
Std Dev 1.061
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

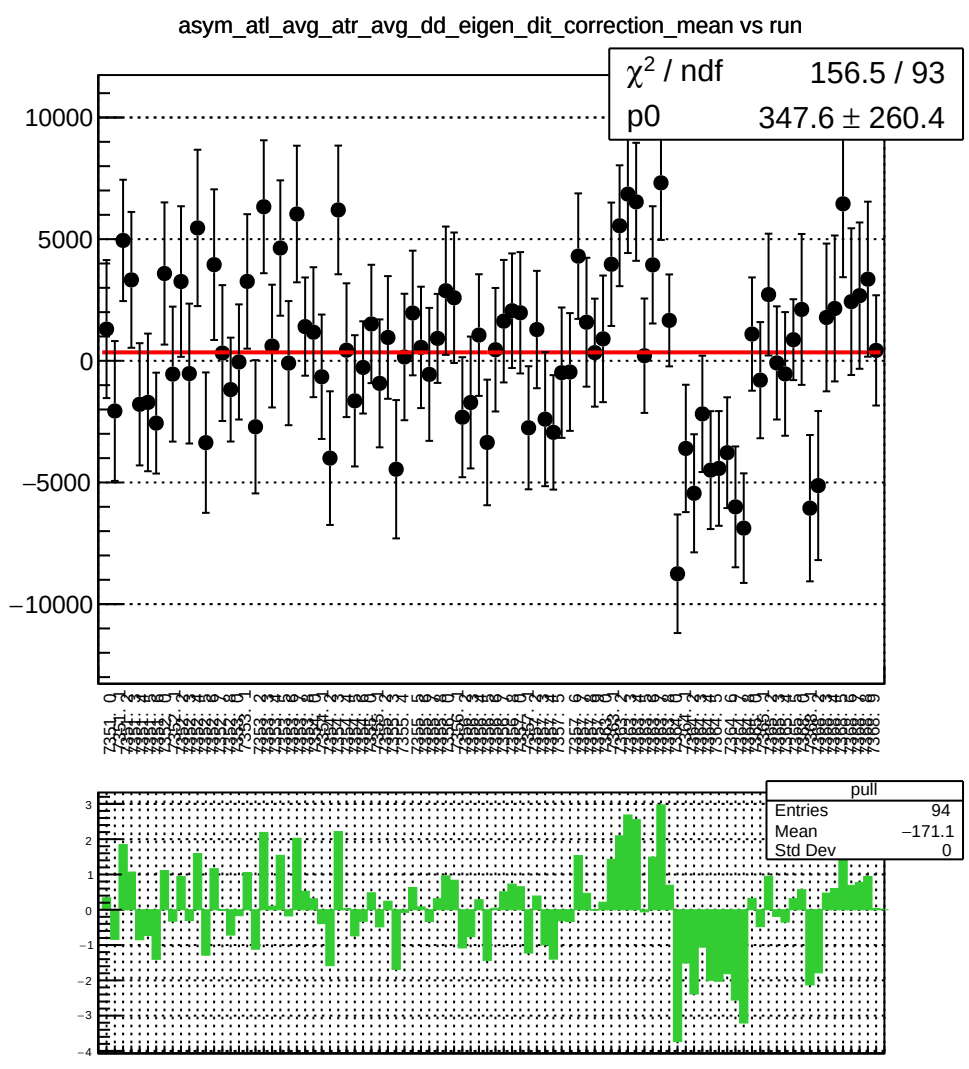

dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 498.6 / 93
p0 1256 ± 0.9313
1340
1320
1300
1280
1260
1240
1220
1200

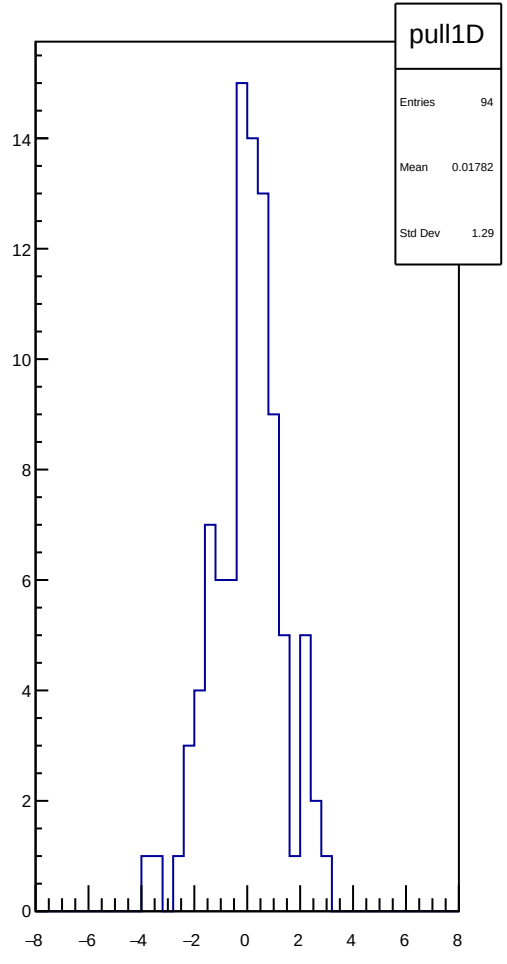

asym_atl_avg_atr_avg_dd_dit_correction_mean vs run
χ² / ndf 156.5 / 93
p0 347.6 ± 260.4
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −171.1
Std Dev 0
pull1D
Entries 94
Mean 0.01782
Std Dev 1.29

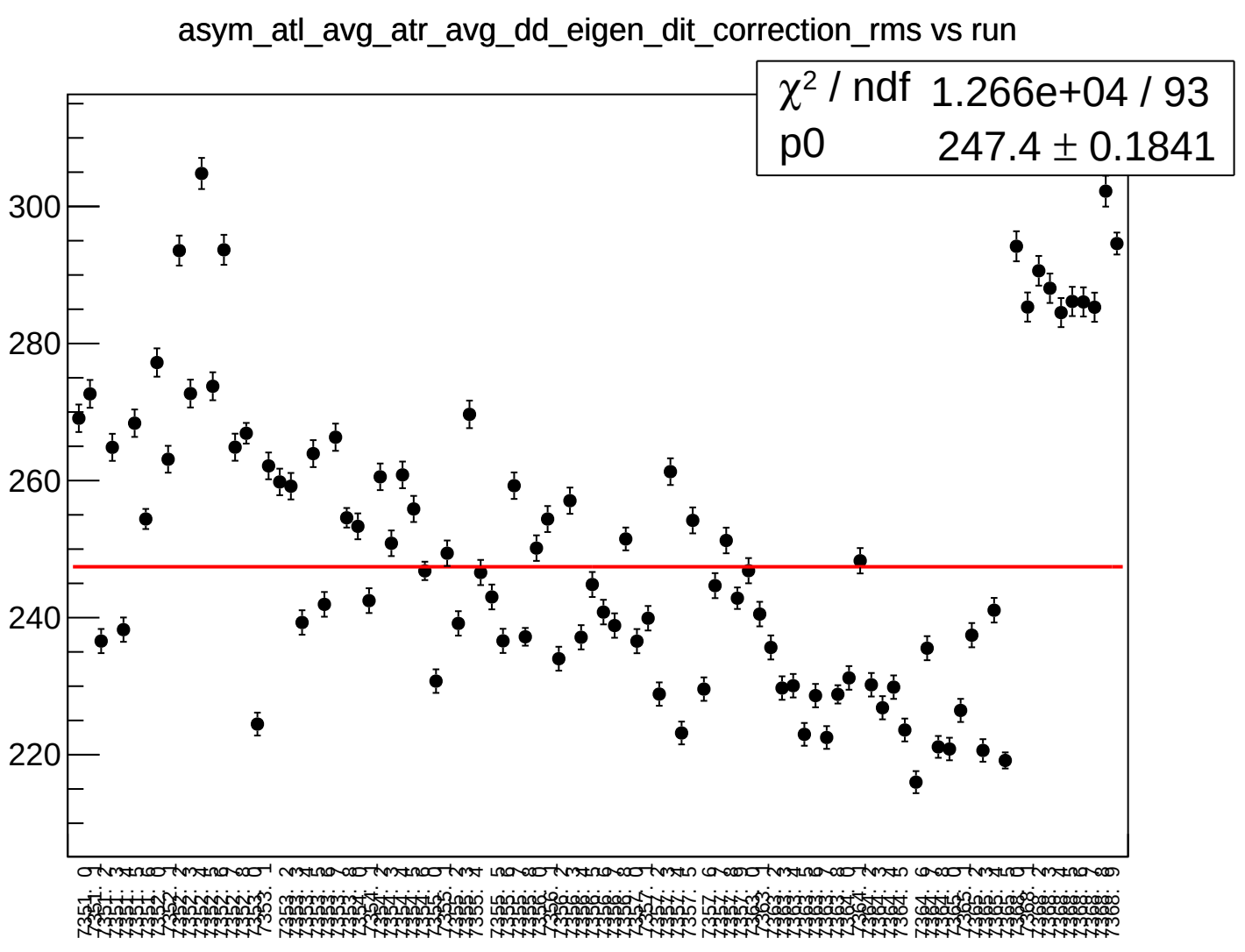

asym_atl_avg_atr_avg_dd_dit_correction_rms vs run
χ² / ndf 1.266e+04 / 93
p0 247.4 ± 0.1841
300
280
260
240
220

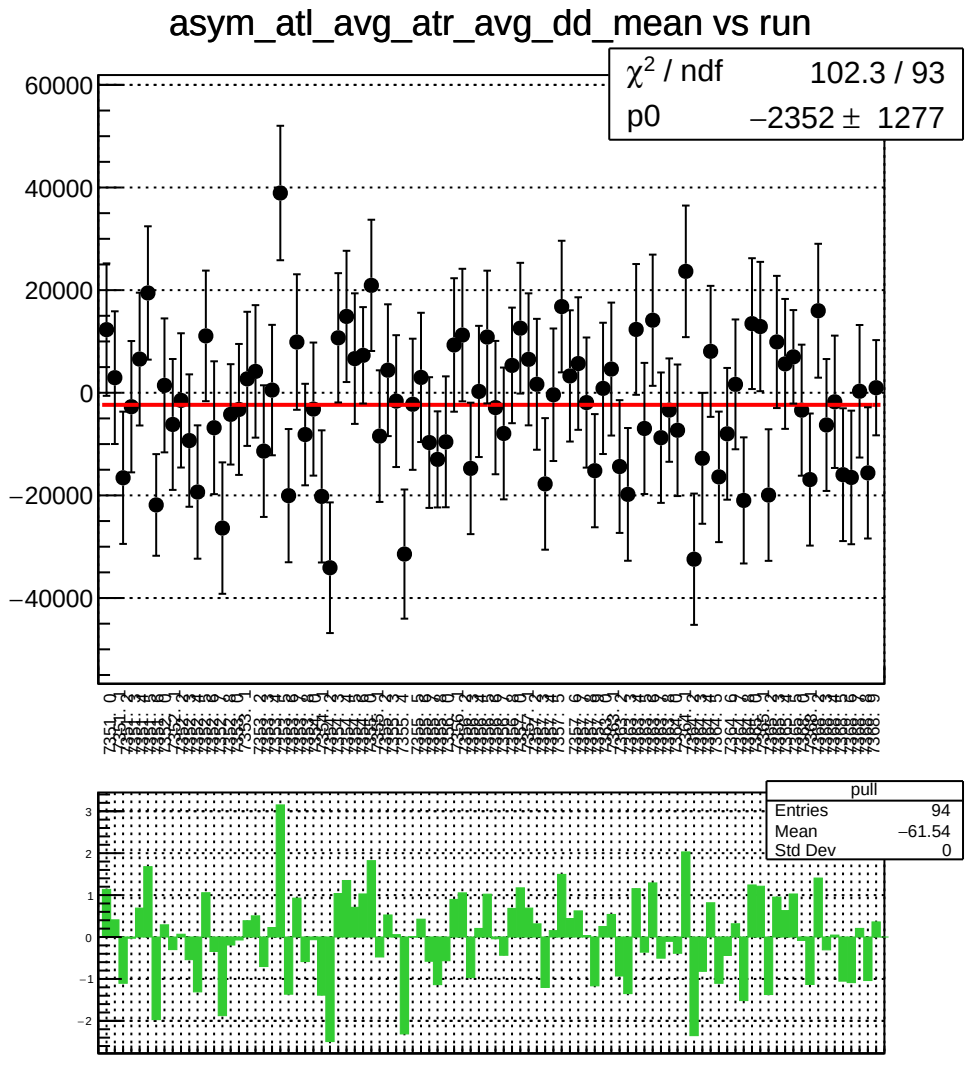

eigen_dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 105.9 / 93
p0 −1937 ± 1317
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −141
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.007253
Std Dev 1.061
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

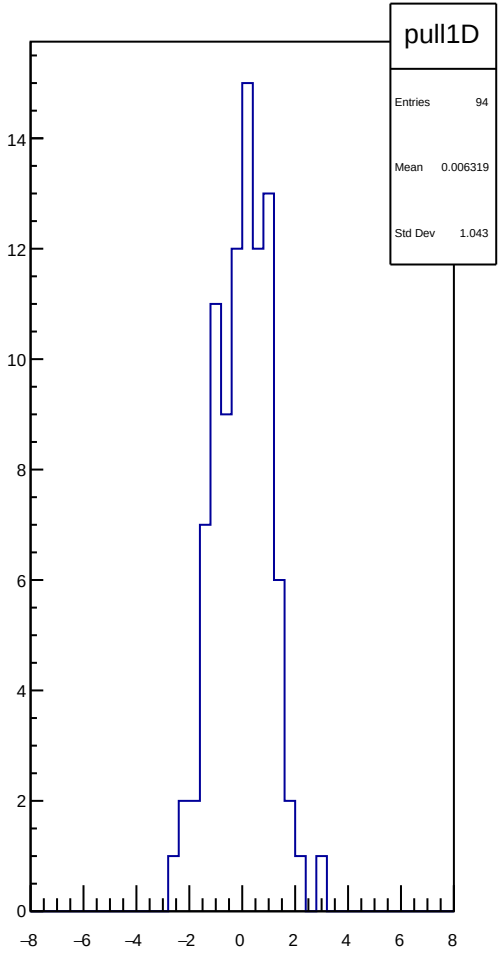

eigen_dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 498.6 / 93
p0 1256 ± 0.9313
1340
1320
1300
1280
1260
1240
1220
1200

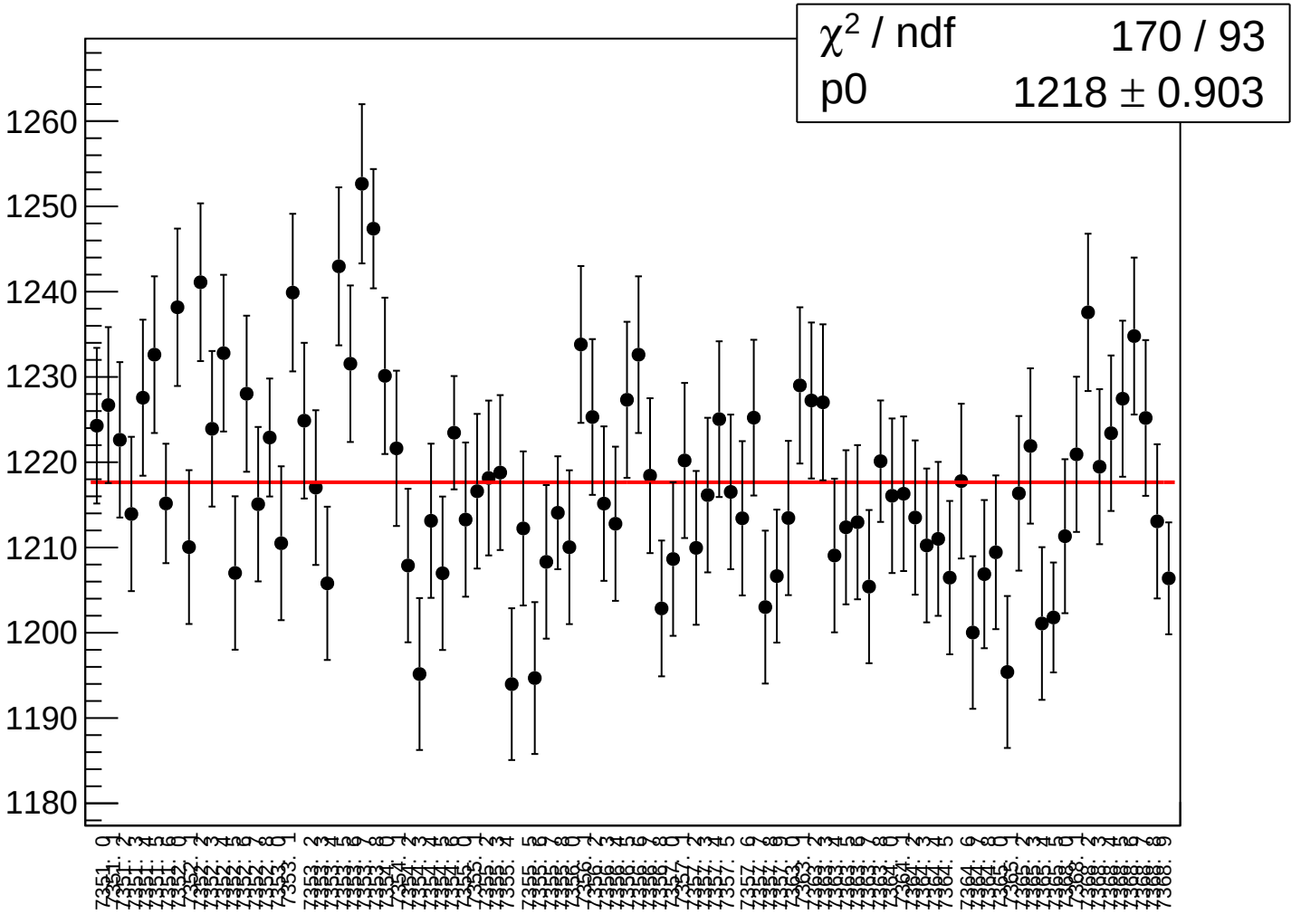

asym_atl_avg_atr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 156.5 / 93
p0 347.6 ± 260.4
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −171.1
Std Dev 0
3
2
1
0
−1
−2
−3
−4

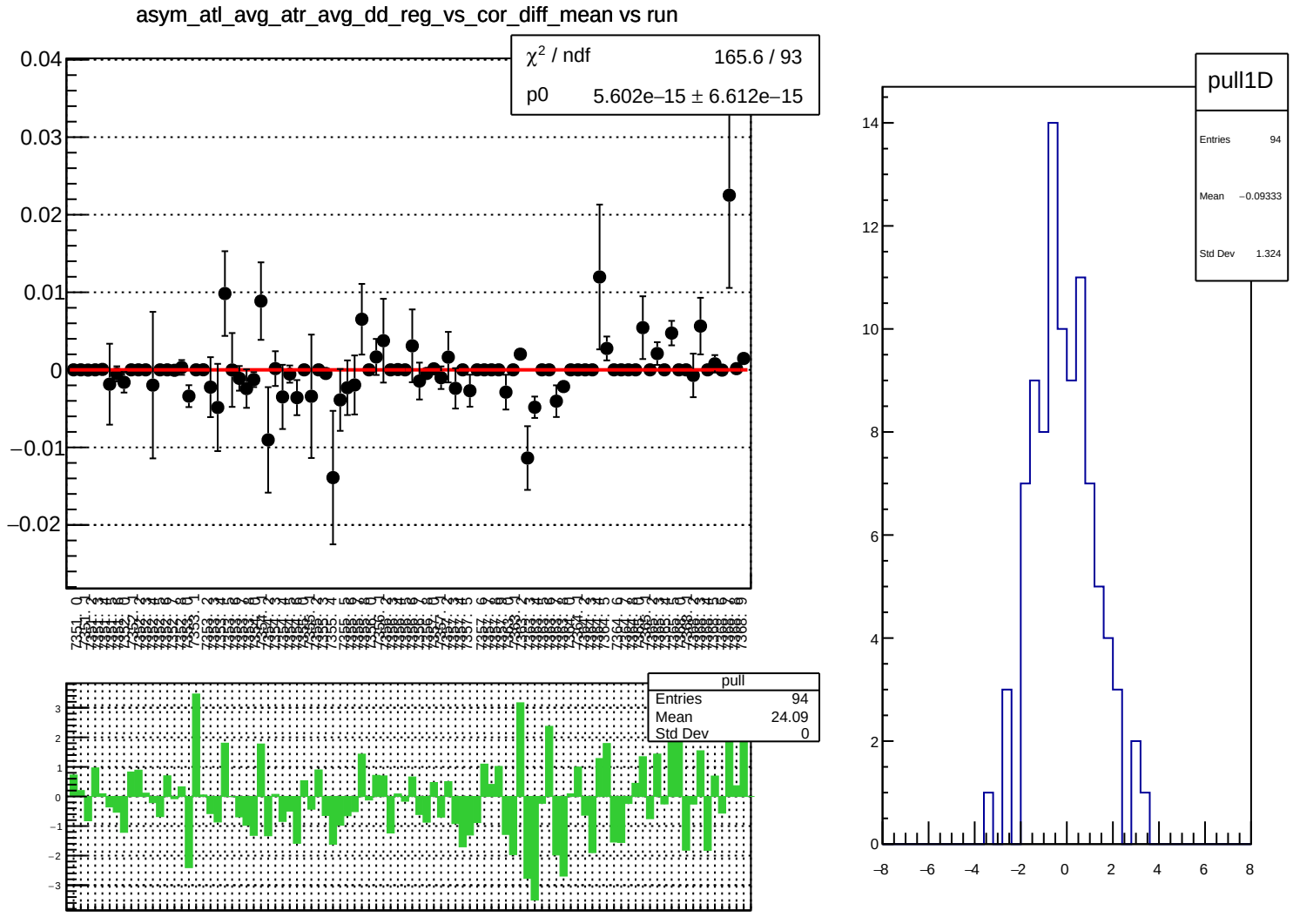

pull1D
Entries 94
Mean 0.01782
Std Dev 1.29
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

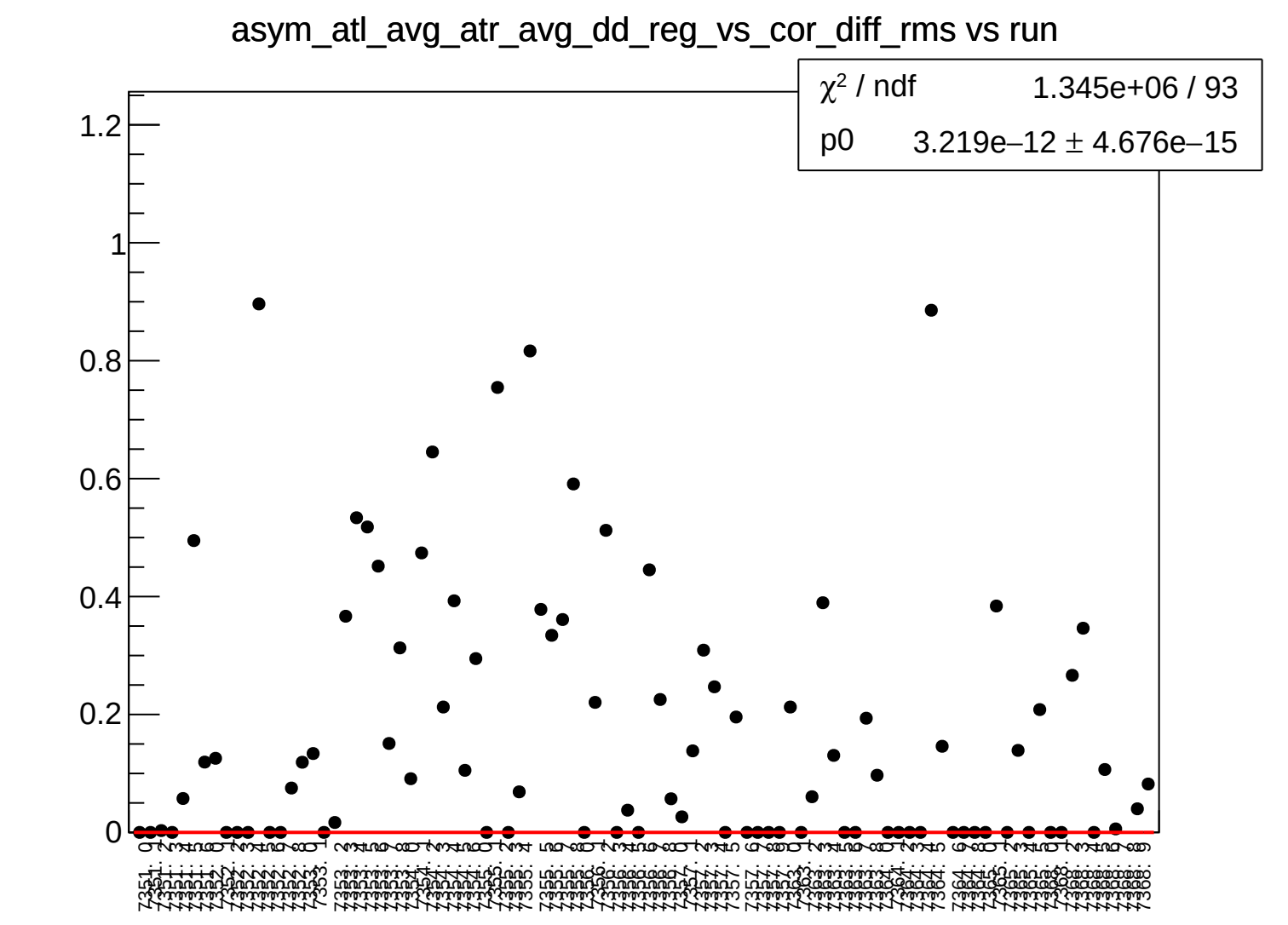

asym_atl_avg_atr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.266e+04 / 93
p0 247.4 ± 0.1841
300
280
260
240
220

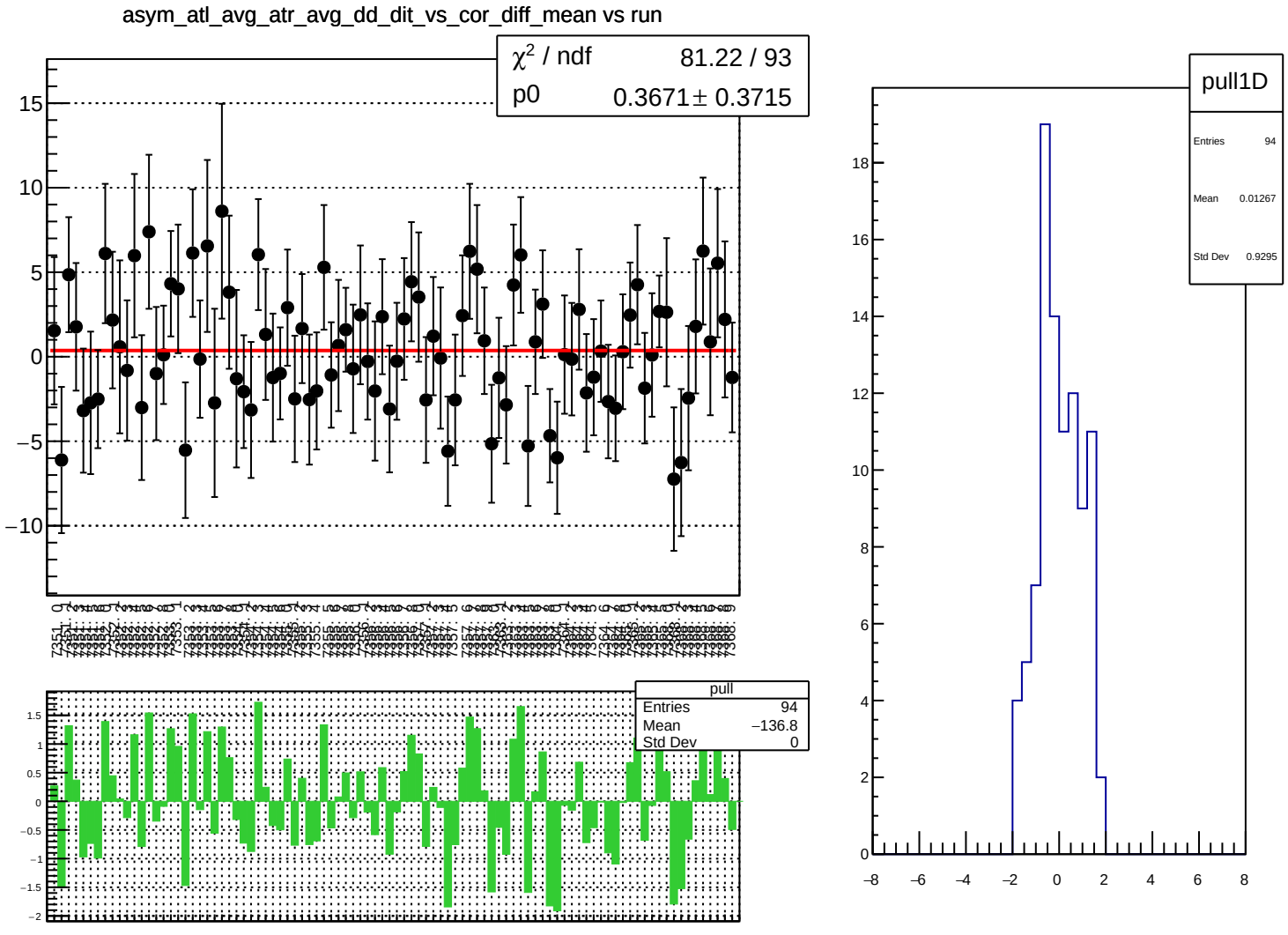

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 102.3 / 93
p0 −2352 ± 1277
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −61.54
Std Dev 0
3
2
1
0
−1
−2

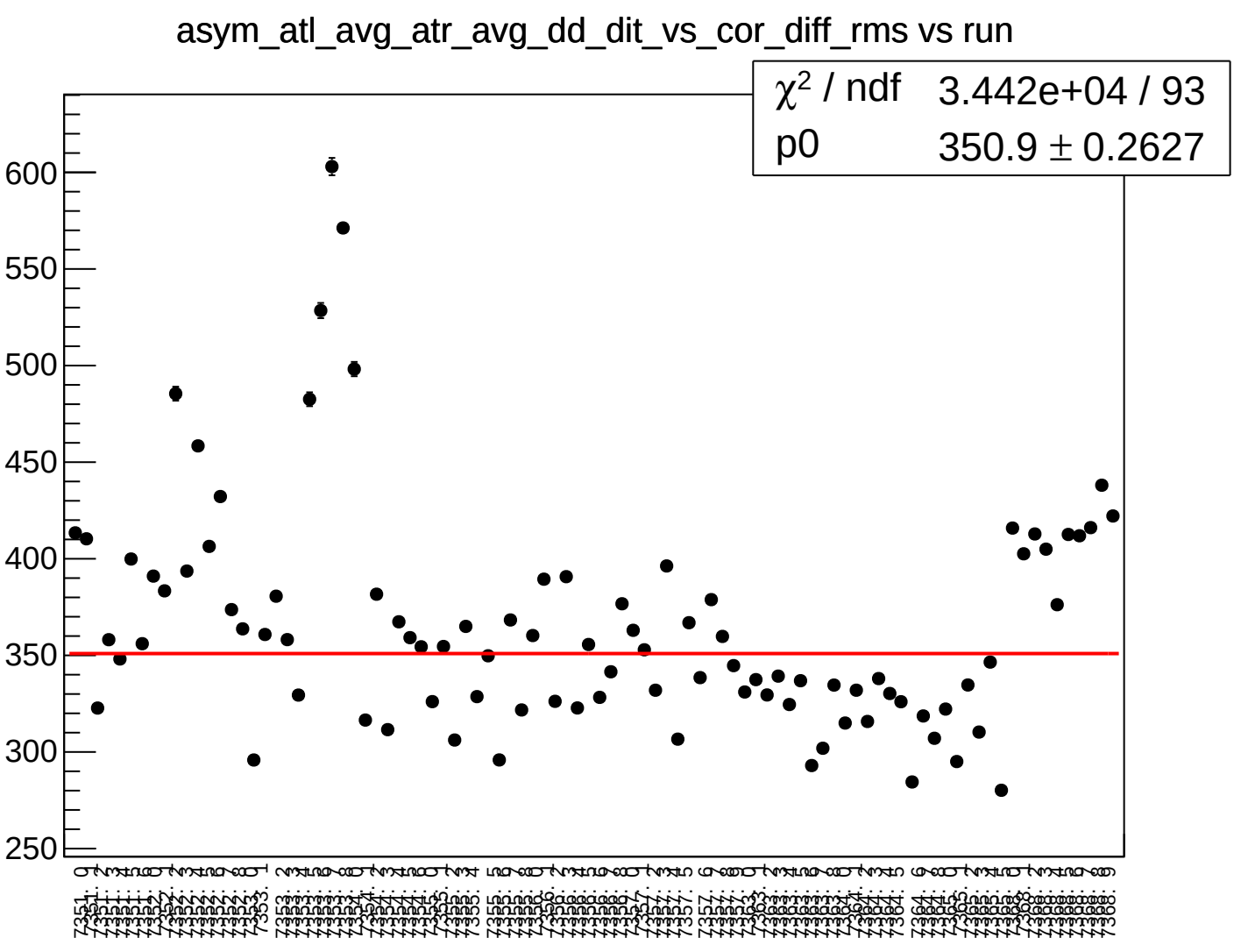

pull1D
Entries 94
Mean 0.006319
Std Dev 1.043
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

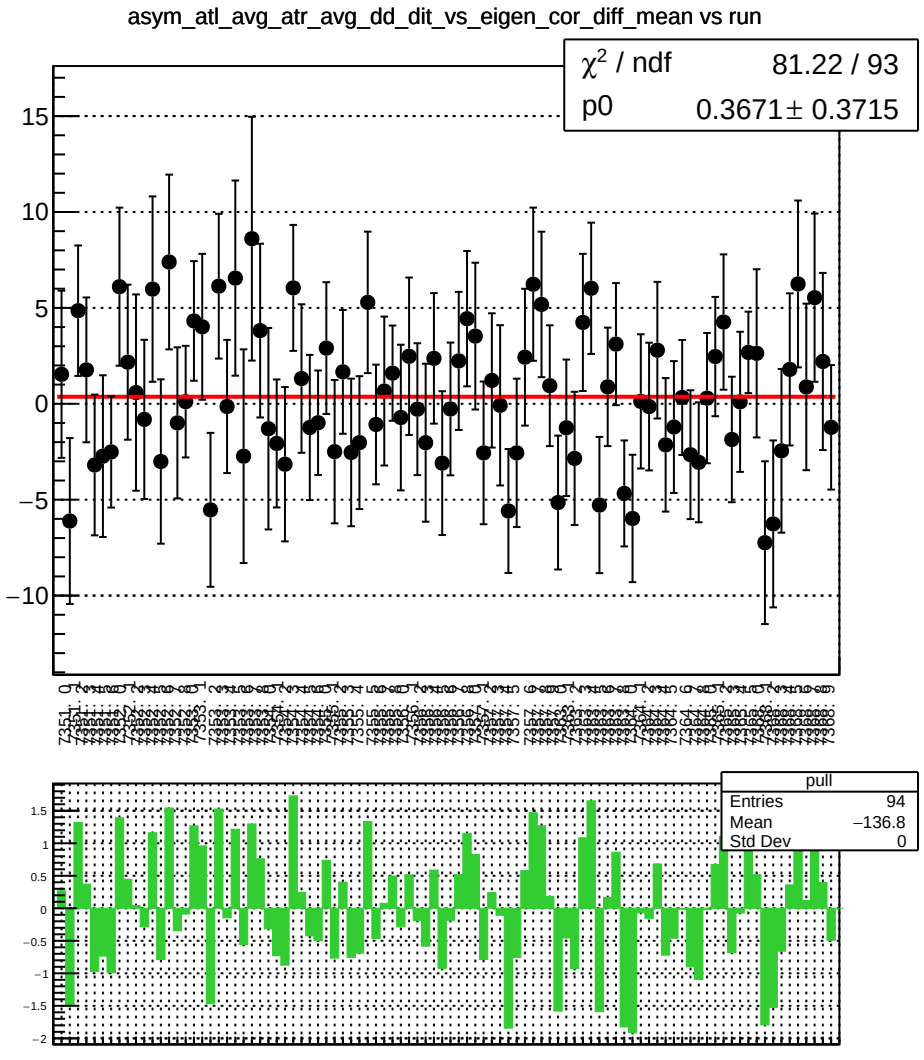

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 170 / 93
p0 1218 ± 0.903
1260
1250
1240
1230
1220
1210
1200
1190
1180

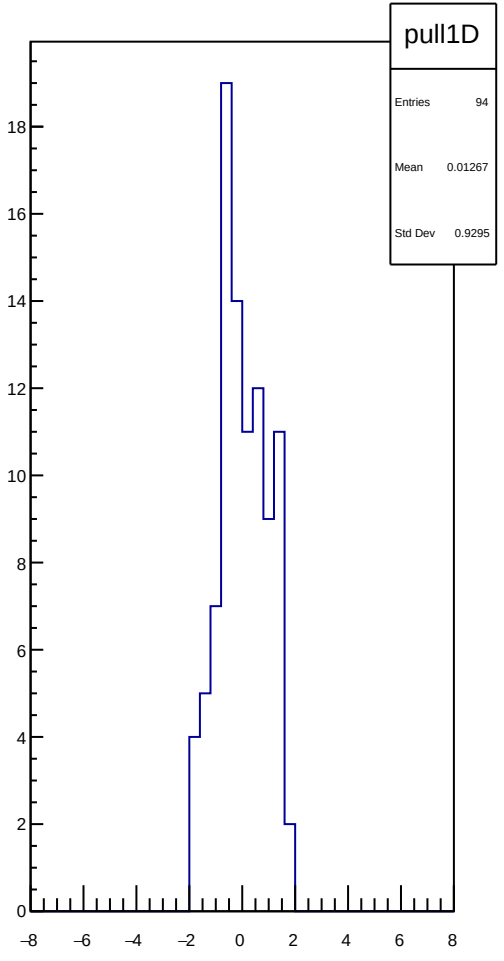

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 165.6 / 93
p0 5.602e−15 ± 6.612e−15
0.04
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 94
Mean 24.09
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.09333
Std Dev 1.324
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

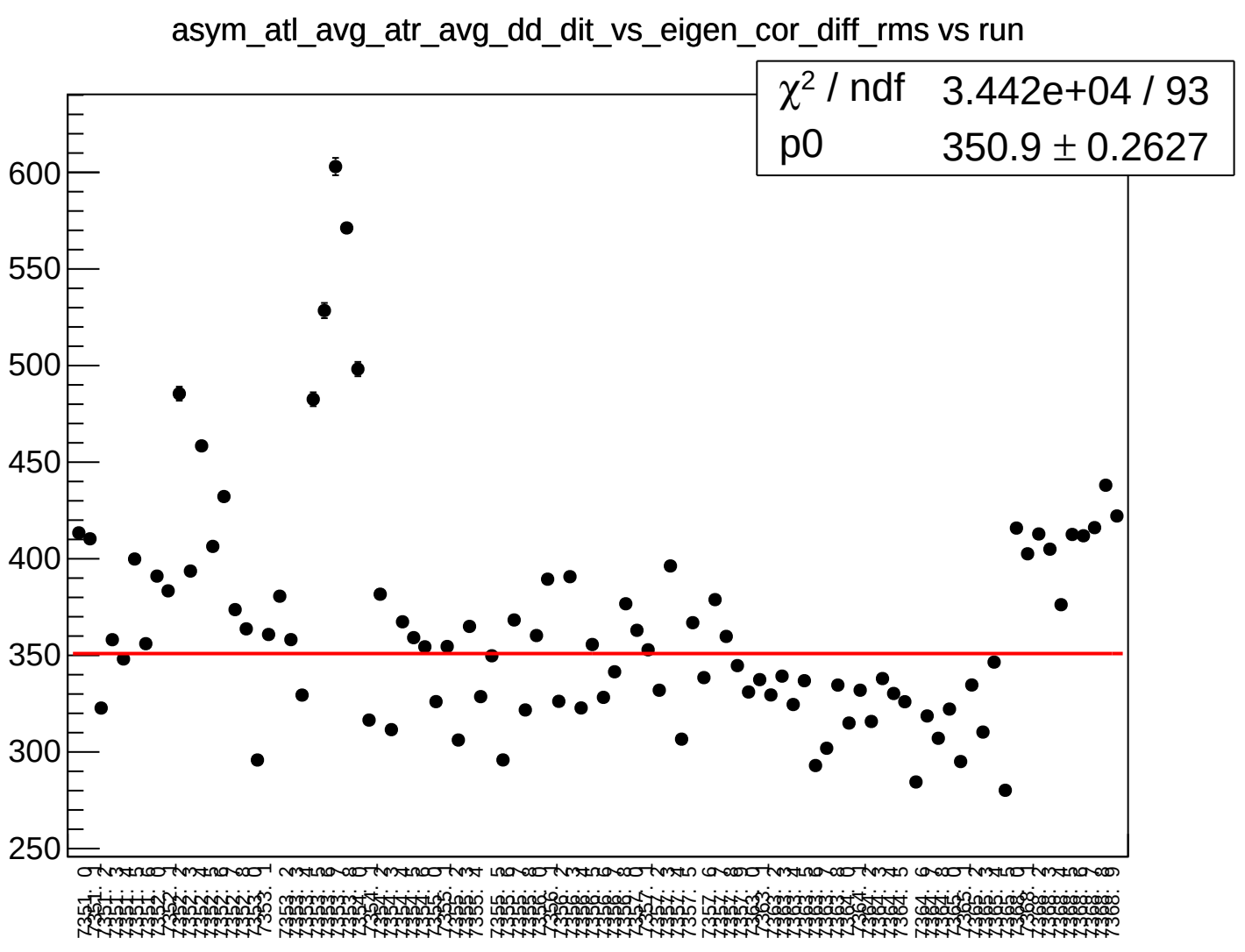

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.345e+06 / 93
p0 3.219e−12 ± 4.676e−15
1.2
1
0.8
0.6
0.4
0.2
0

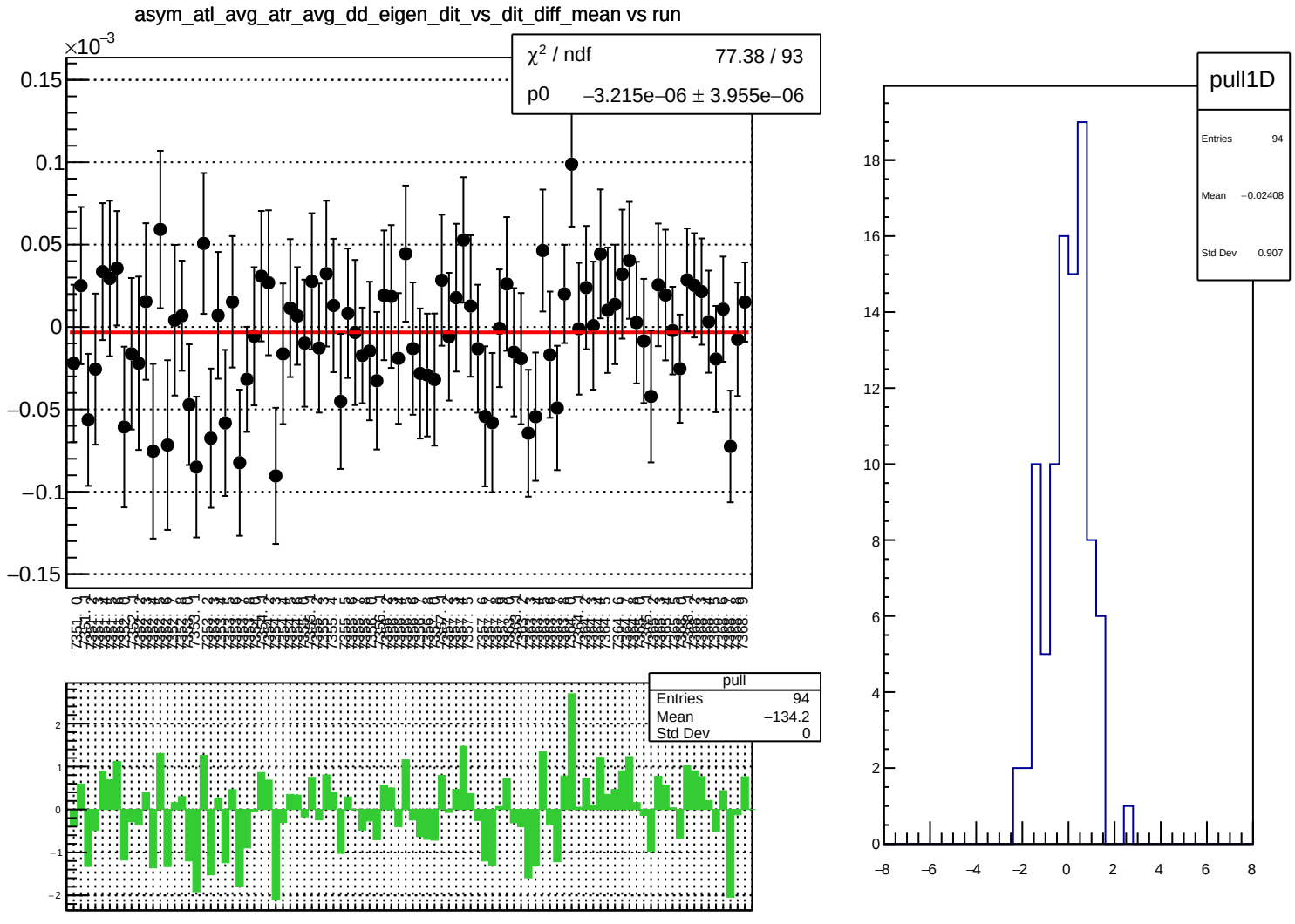

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 81.22 / 93
p0 0.3671 ± 0.3715
pull
Entries 94
Mean −136.8
Std Dev 0
pull1D
Entries 94
Mean 0.01267
Std Dev 0.9295

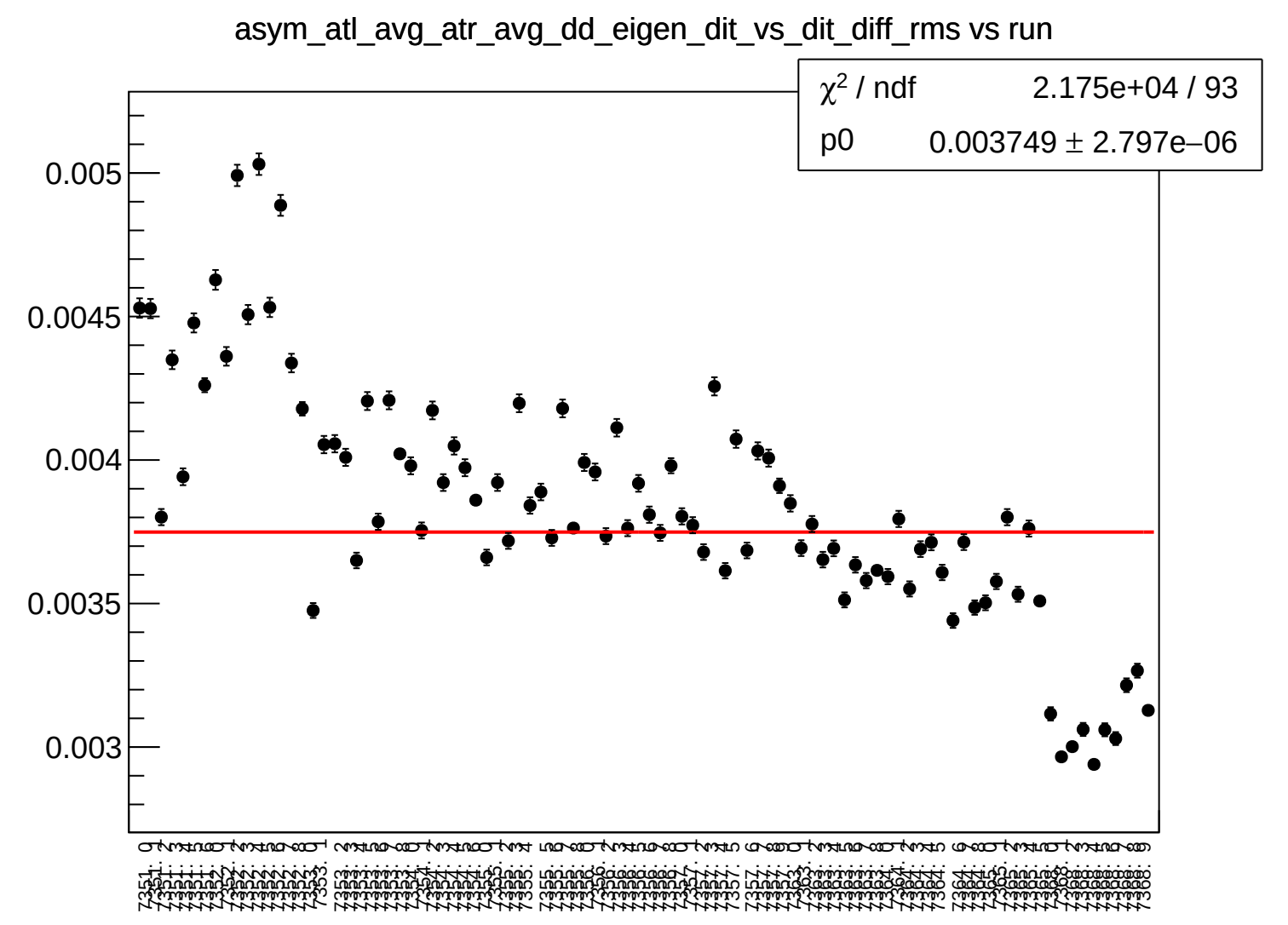

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.442e+04 / 93
p0 350.9 ± 0.2627
600
550
500
450
400
350
300
250

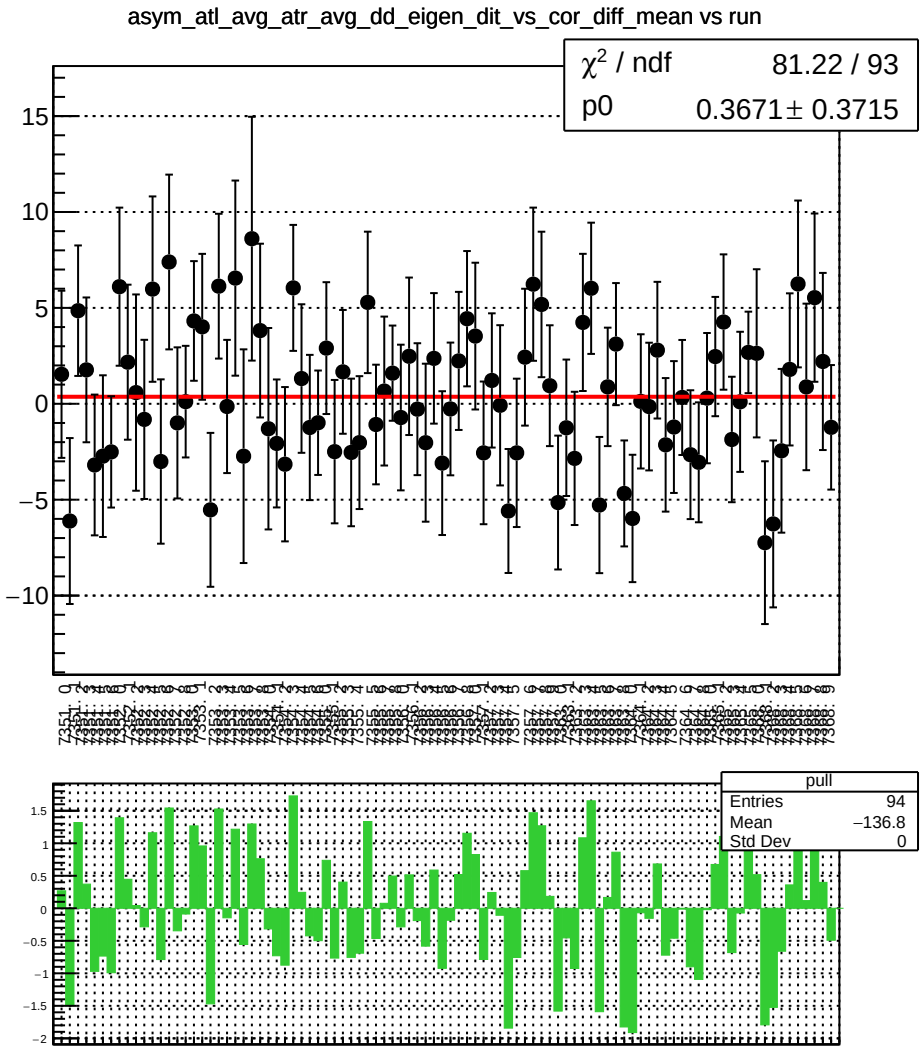

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.22 / 93
p0 0.3671 ± 0.3715
15
10
5
0
−5
−10
pull
Entries 94
Mean −136.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

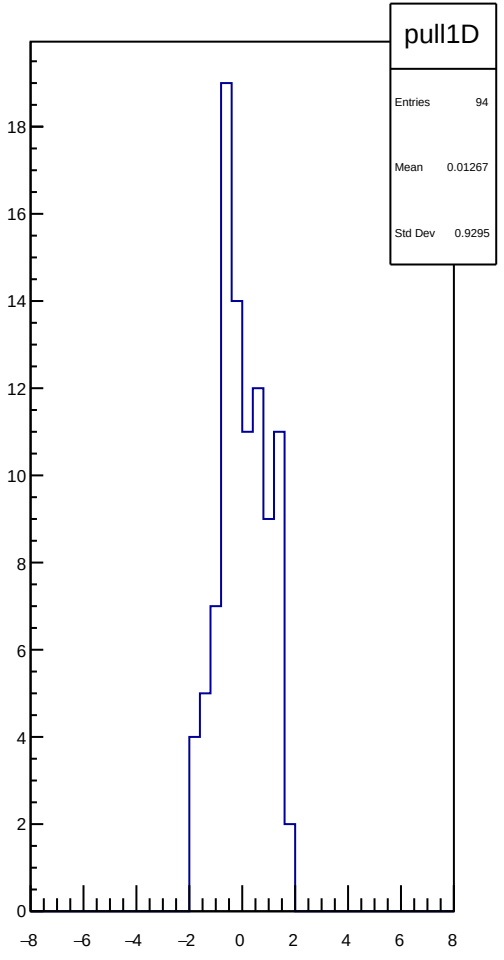

pull1D
Entries 94
Mean 0.01267
Std Dev 0.9295
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

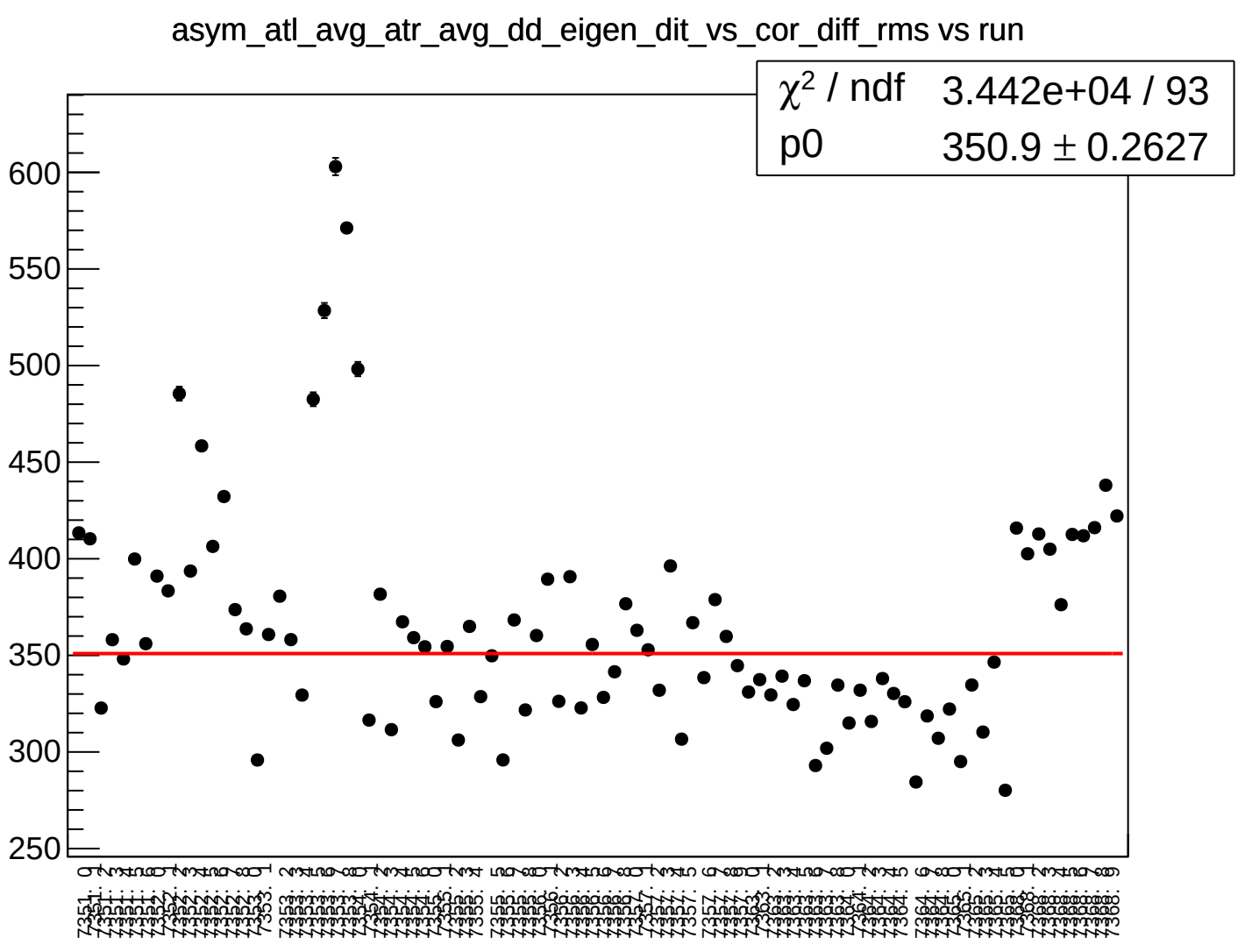

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.442e+04 / 93
p0 350.9 ± 0.2627
600
550
500
450
400
350
300
250

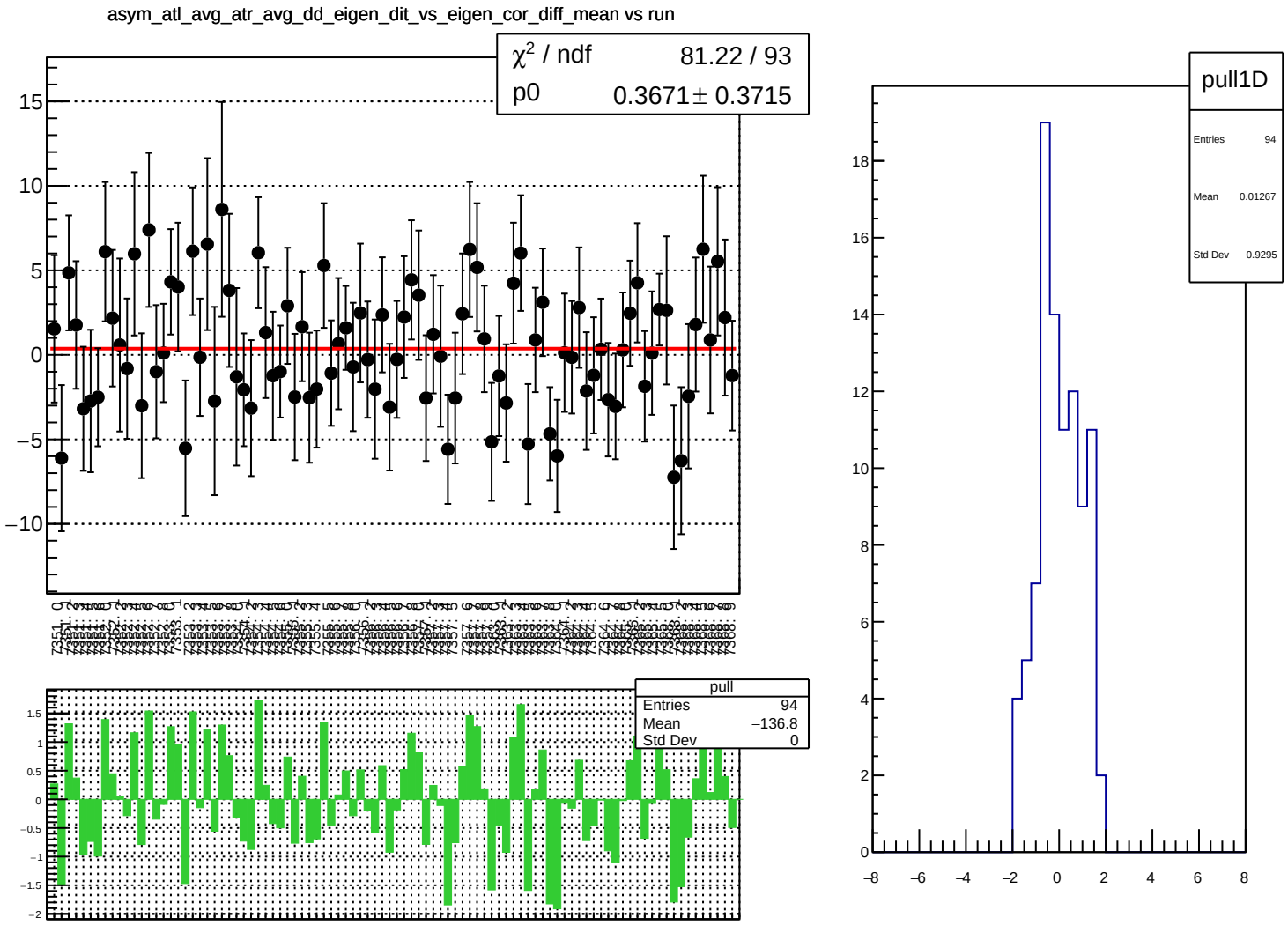

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 77.38 / 93
p0 −3.215e−06 ± 3.955e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 94
Mean −134.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.02408
Std Dev 0.907
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

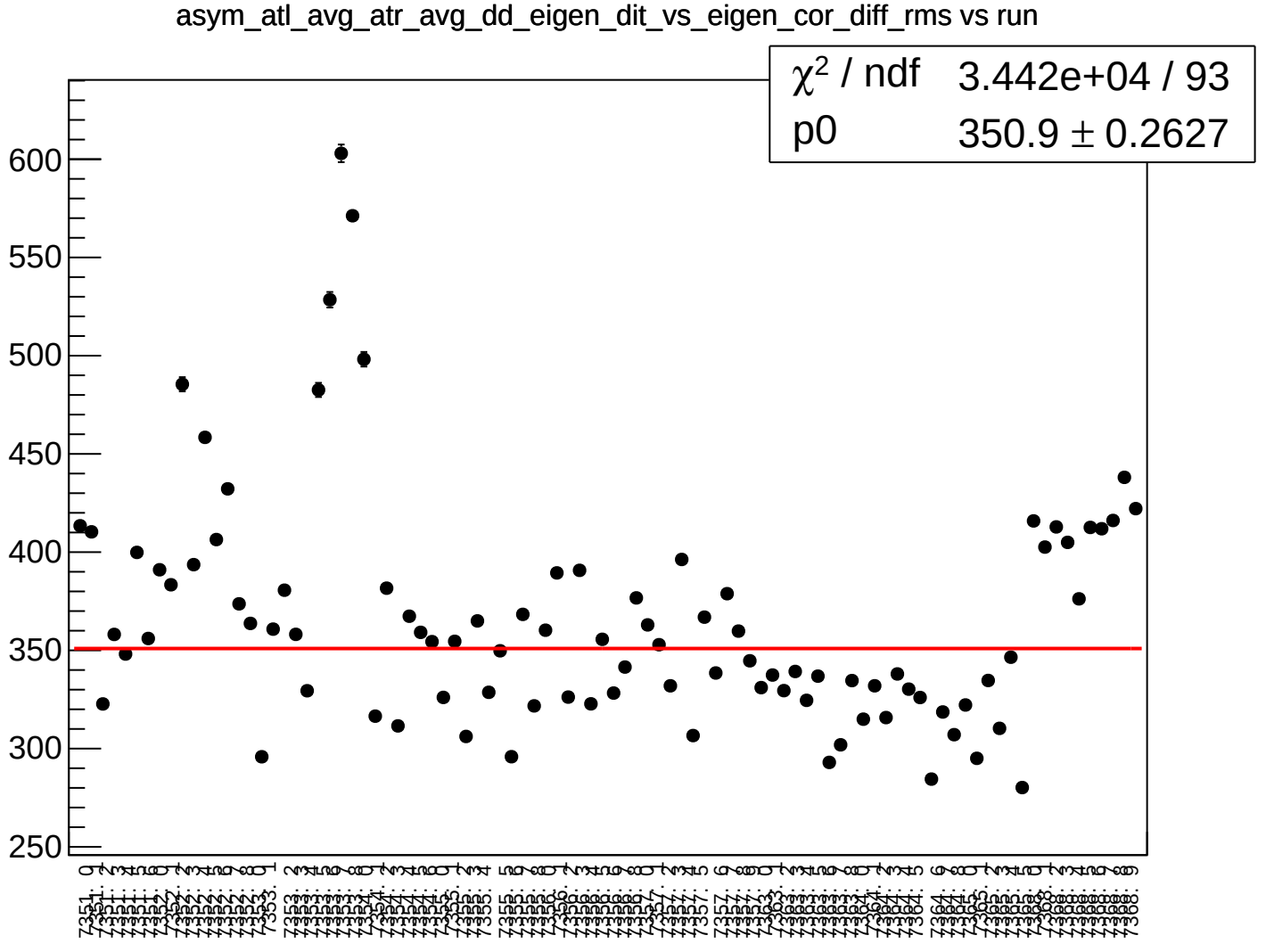

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.175e+04 / 93
p0 0.003749 ± 2.797e−06
0.005
0.0045
0.004
0.0035
0.003

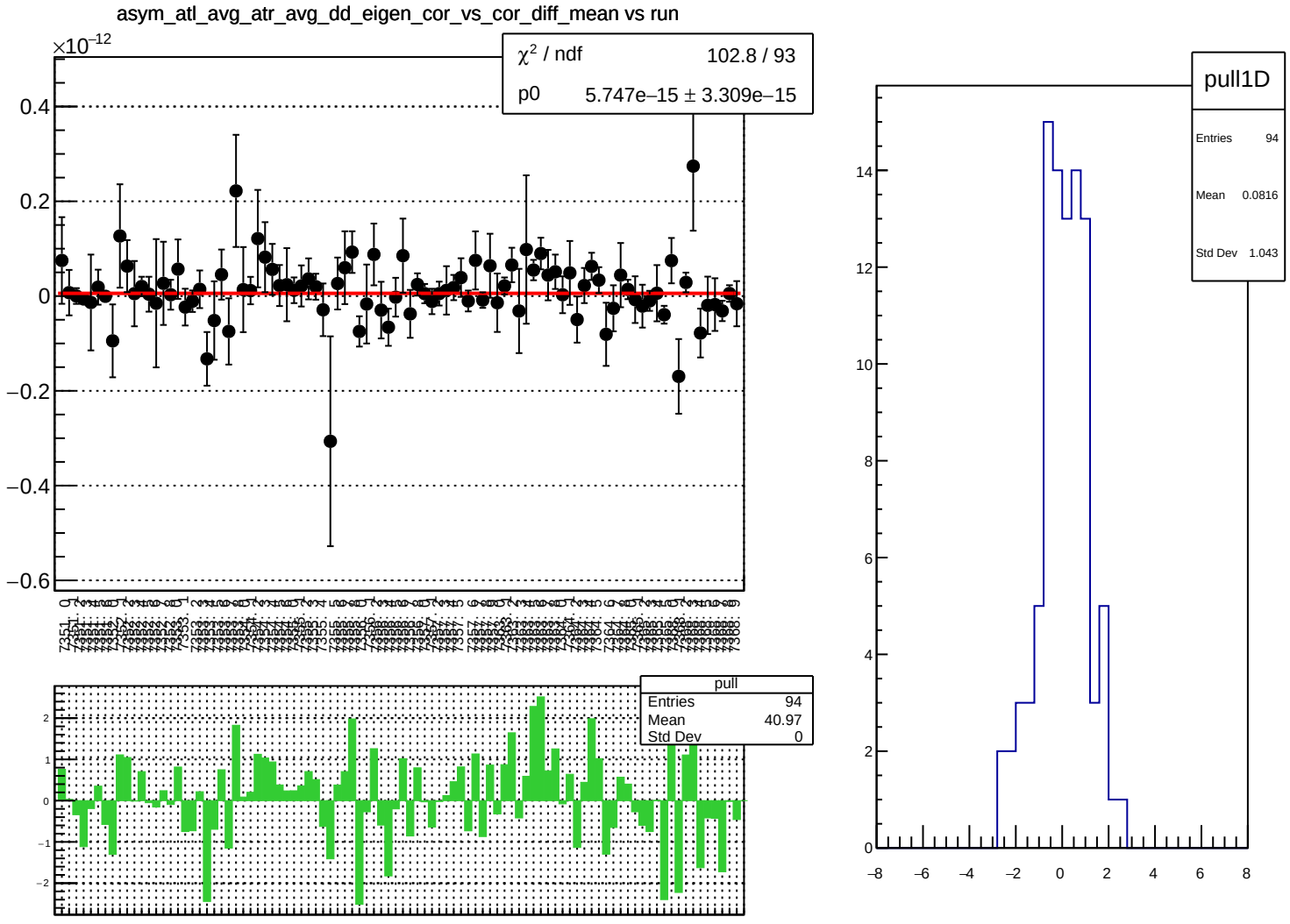

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.22 / 93
p0 0.3671 ± 0.3715
pull
Entries 94
Mean −136.8
Std Dev 0

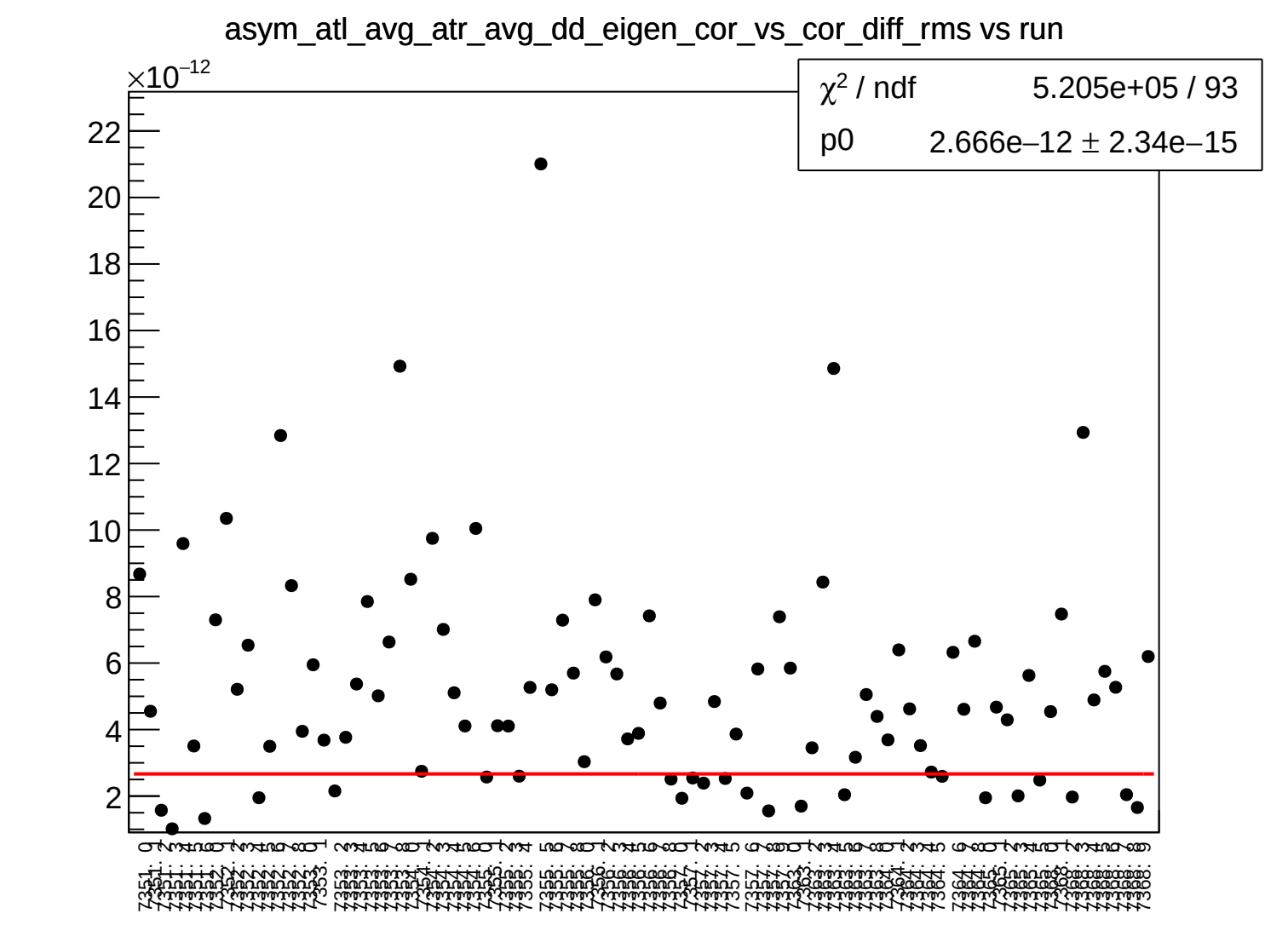

pull1D
Entries 94
Mean 0.01267
Std Dev 0.9295

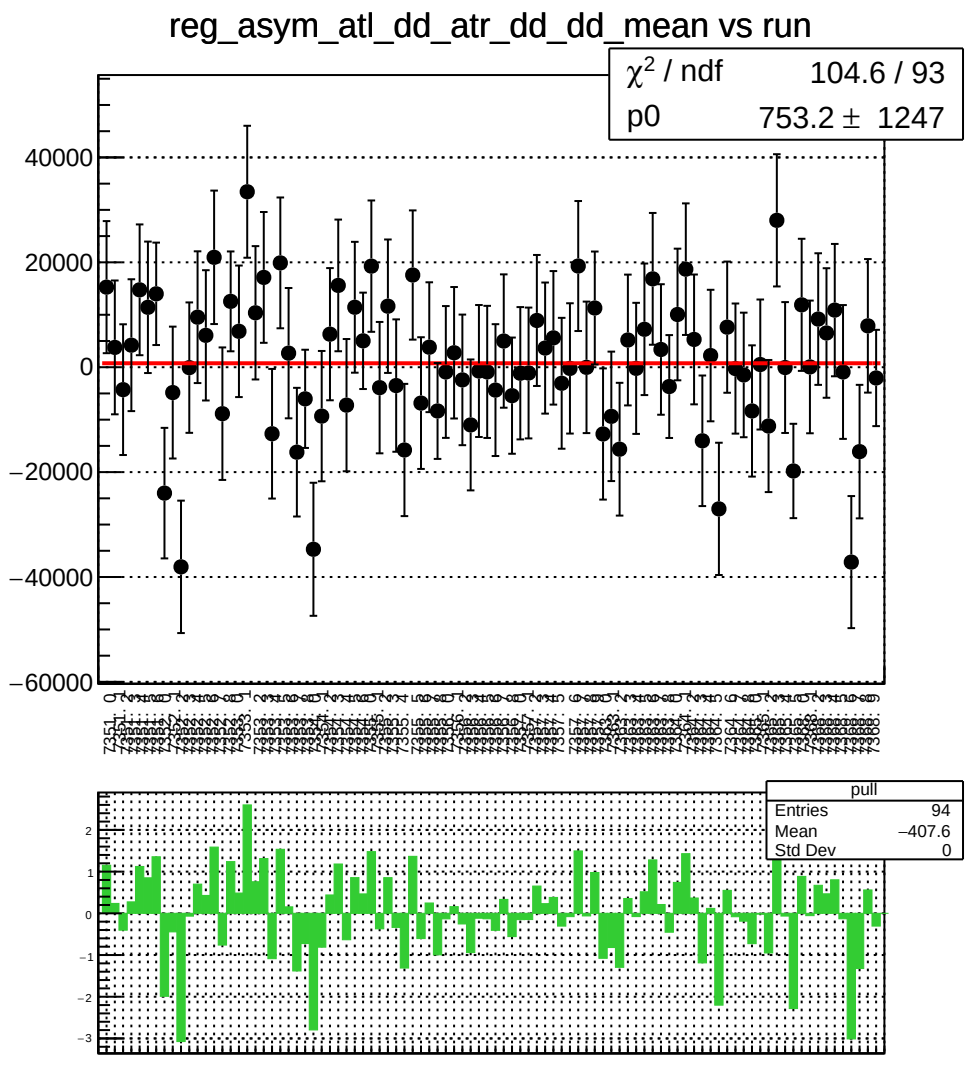

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.442e+04 / 93
p0 350.9 ± 0.2627
600
550
500
450
400
350
300
250

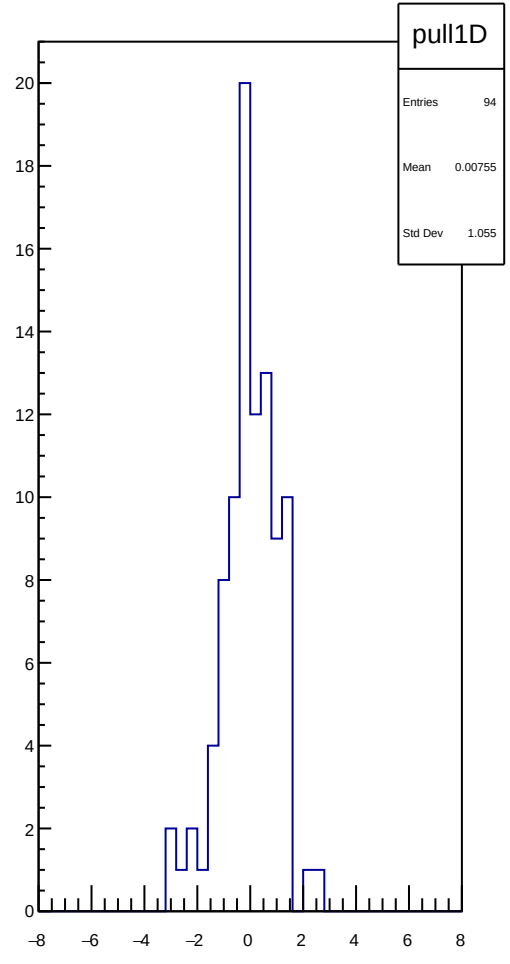

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.22 / 93
p0 0.3671 ± 0.3715
pull
Entries 94
Mean −136.8
Std Dev 0
pull1D
Entries 94
Mean 0.01267
Std Dev 0.9295

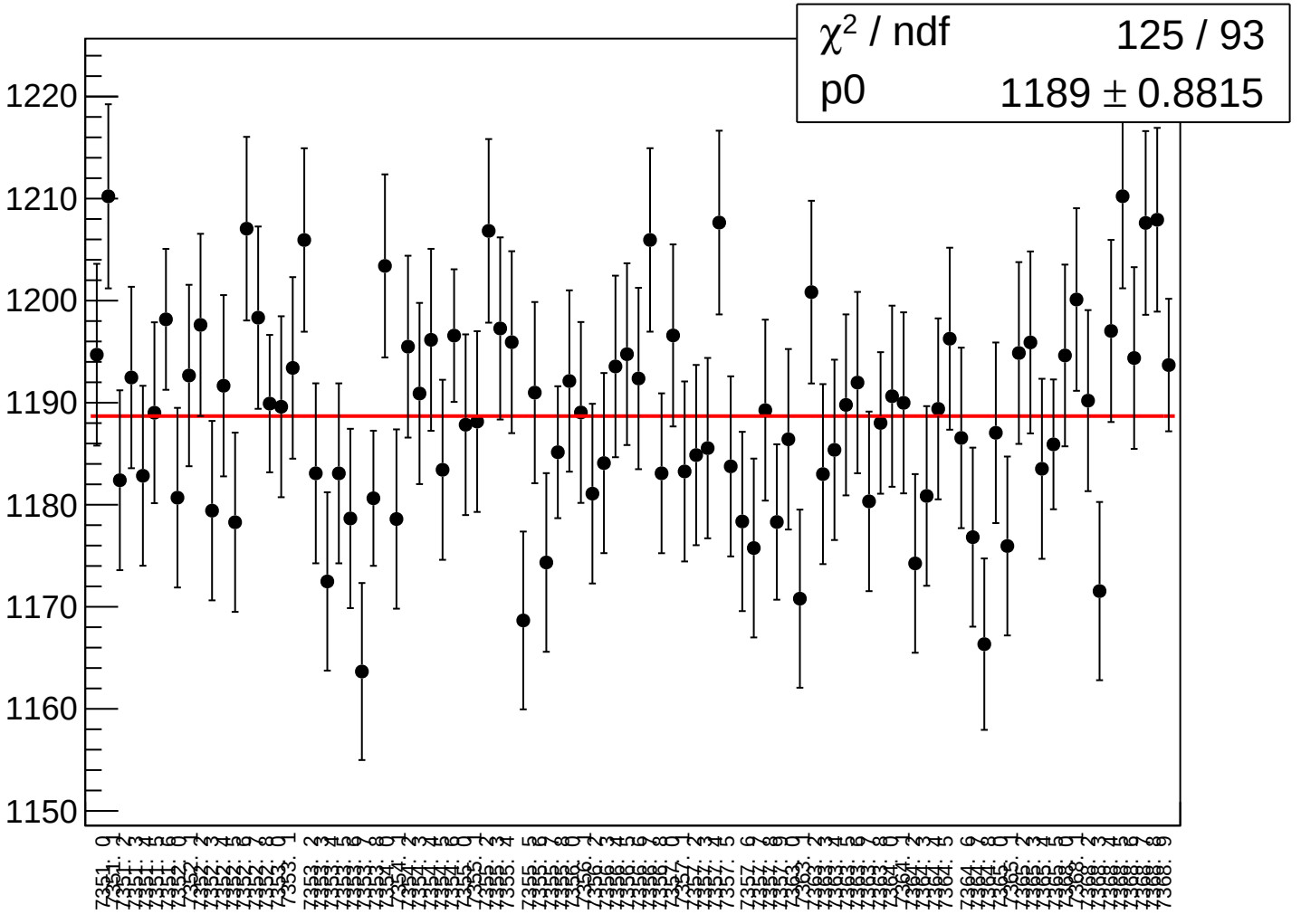

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.442e+04 / 93
p0 350.9 ± 0.2627
600
550
500
450
400
350
300
250

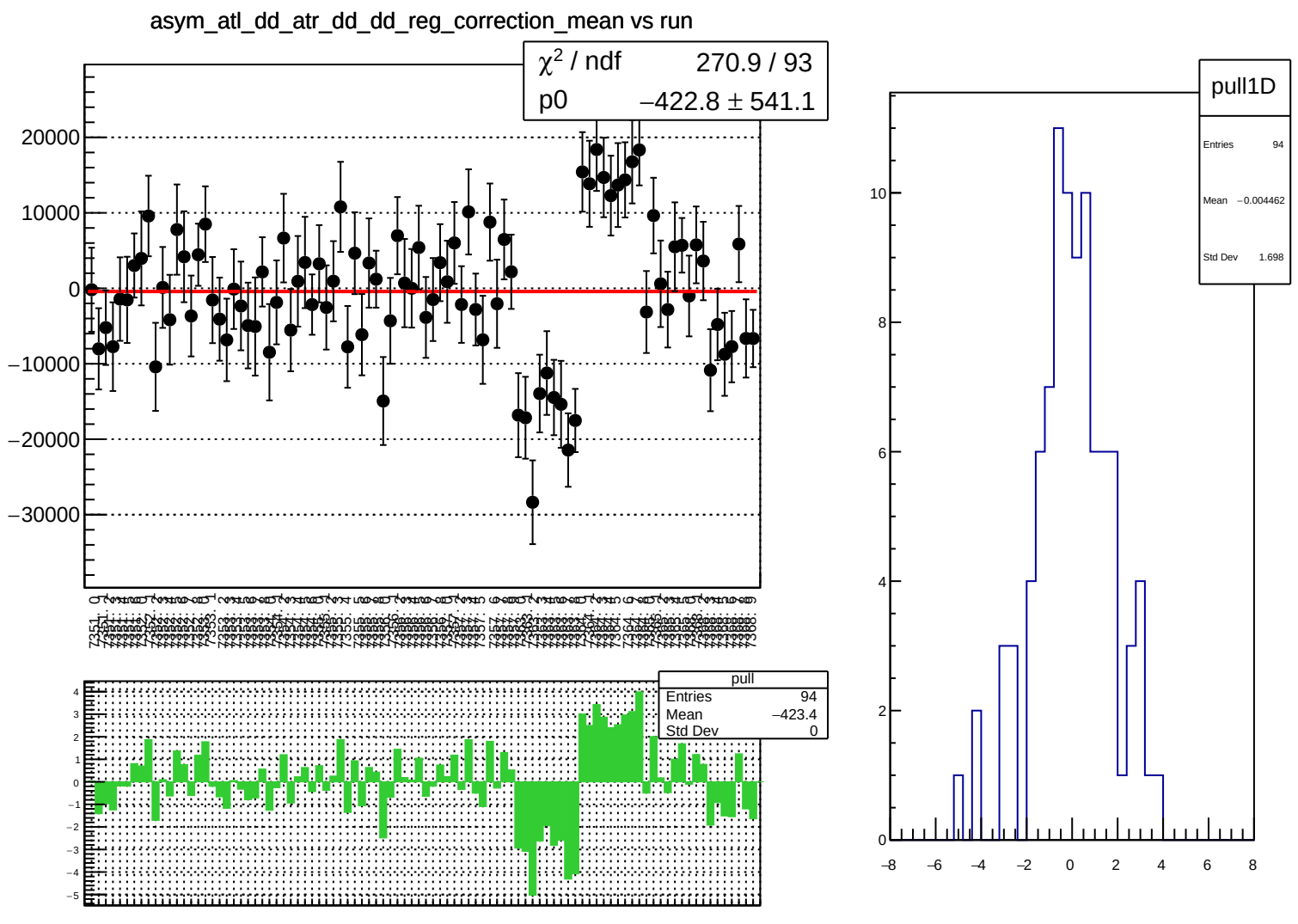

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 102.8 / 93
p0 5.747e−15 ± 3.309e−15
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 94
Mean 40.97
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.0816
Std Dev 1.043
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

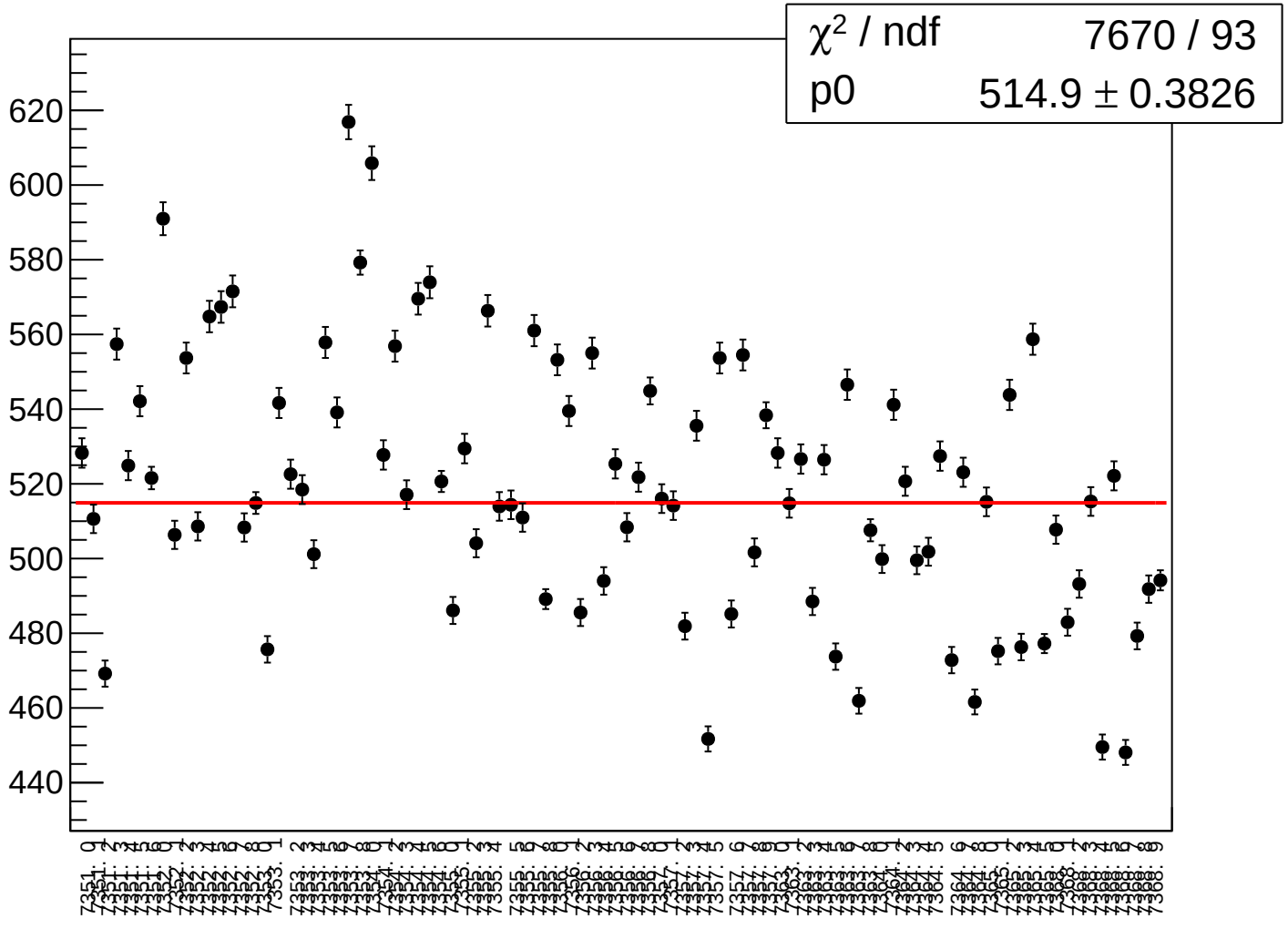

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.205e+05 / 93
p0 2.666e−12 ± 2.34e−15
22
20
18
16
14
12
10
8
6
4
2

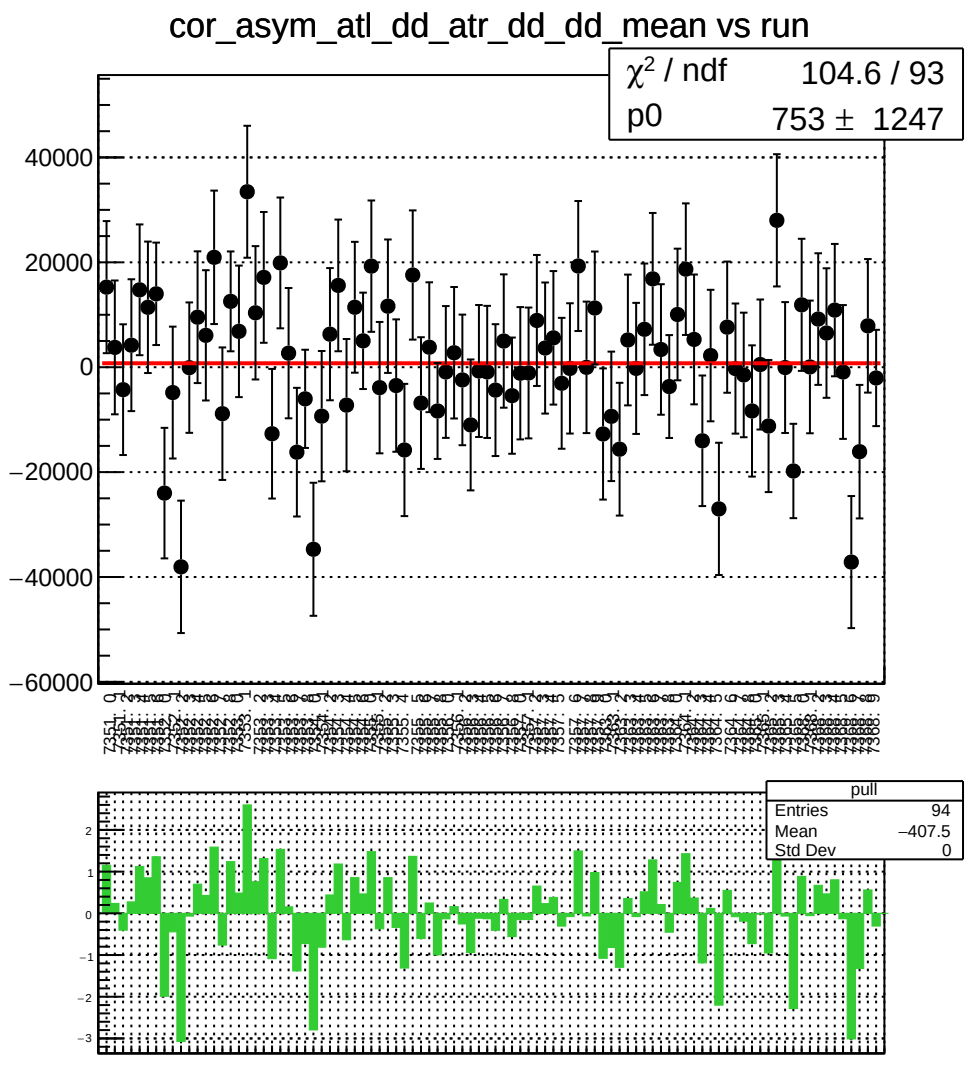

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 104.6 / 93
p0 753.2 ± 1247
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −407.6
Std Dev 0
2
1
0
−1
−2
−3

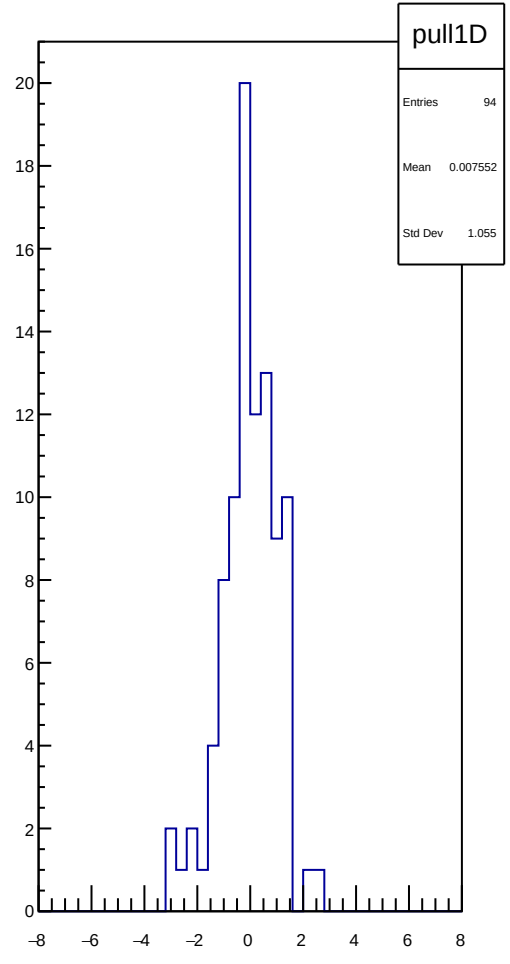

pull1D
Entries 94
Mean 0.00755
Std Dev 1.055
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

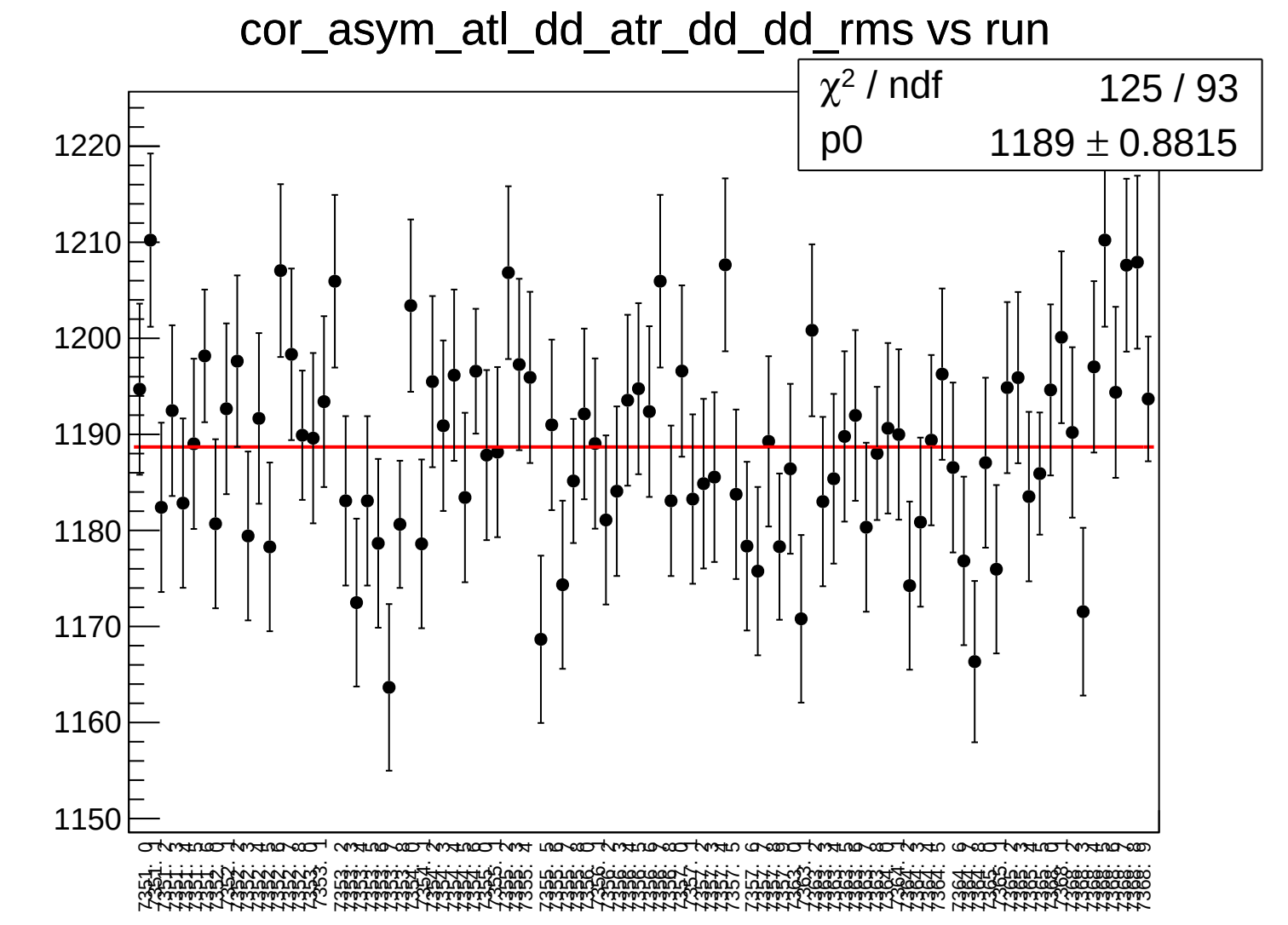

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 125 / 93
p0 1189 ± 0.8815
1220
1210
1200
1190
1180
1170
1160
1150

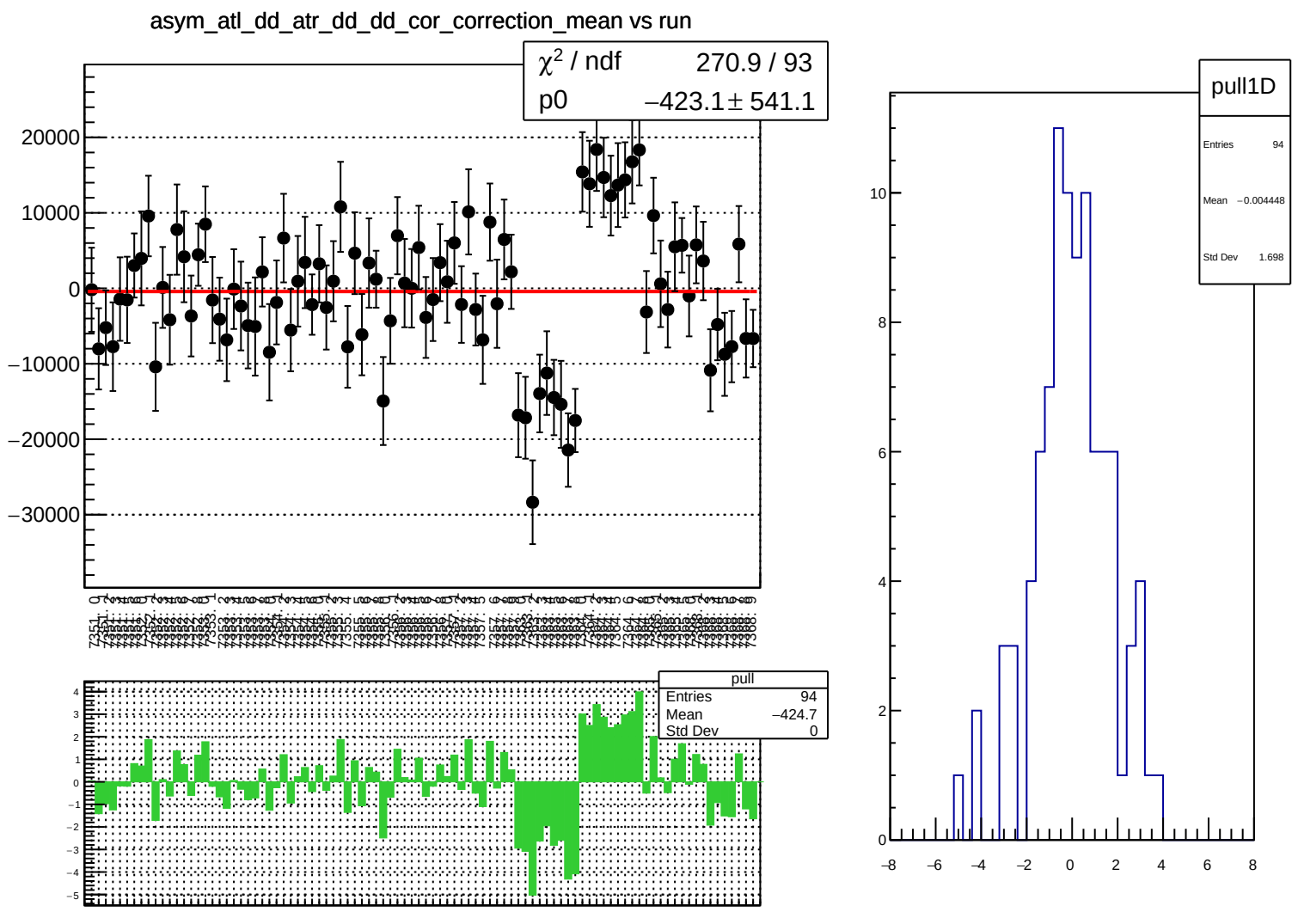

asym_atl_dd_atr_dd_dd_reg_correction_mean vs run
χ² / ndf 270.9 / 93
p0 −422.8 ± 541.1
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −423.4
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4
−5
pull1D
Entries 94
Mean −0.004462
Std Dev 1.698
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

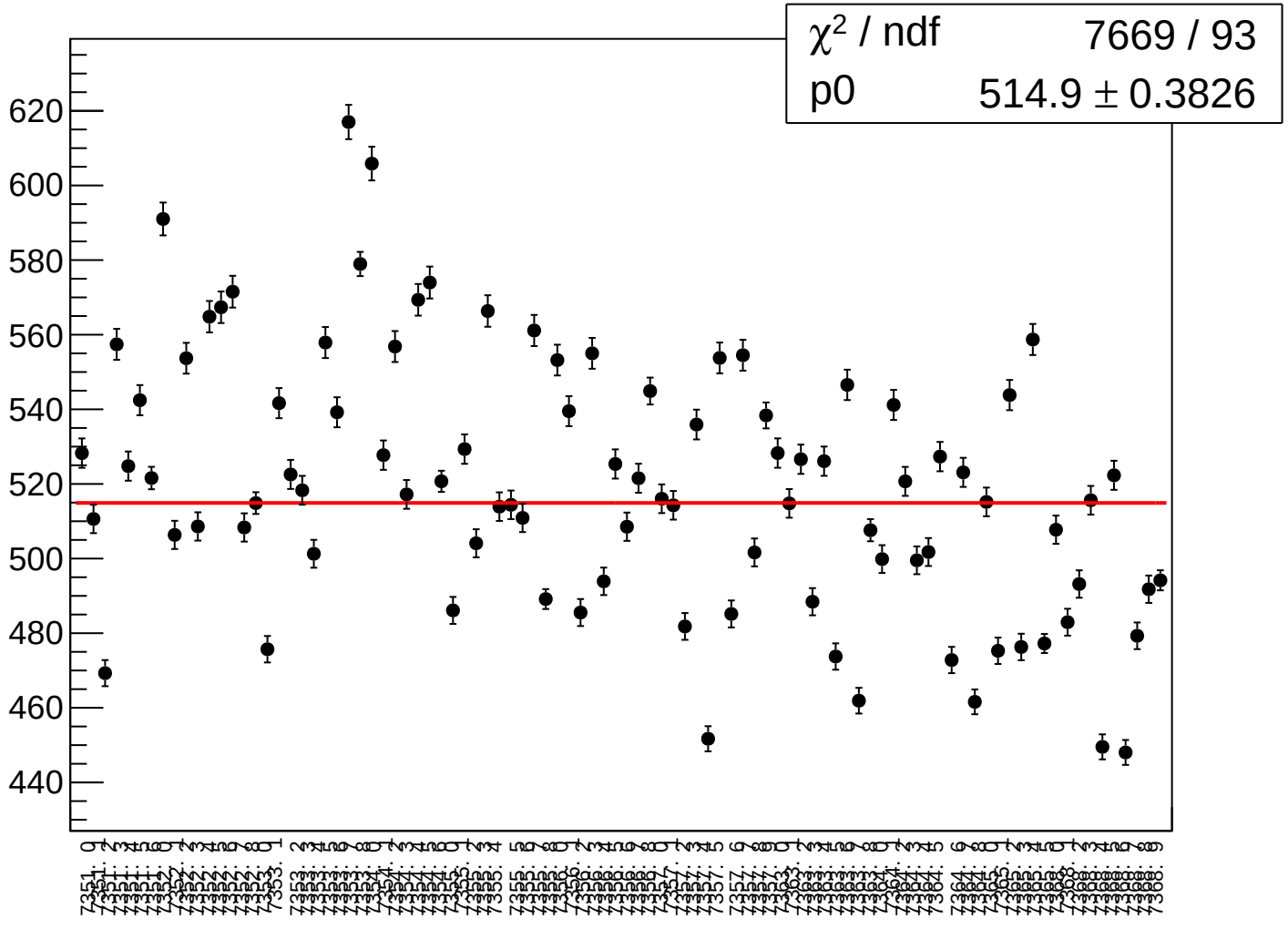

asym_atl_dd_atr_dd_dd_reg_correction_rms vs run
χ² / ndf 7670 / 93
p0 514.9 ± 0.3826
620
600
580
560
540
520
500
480
460
440

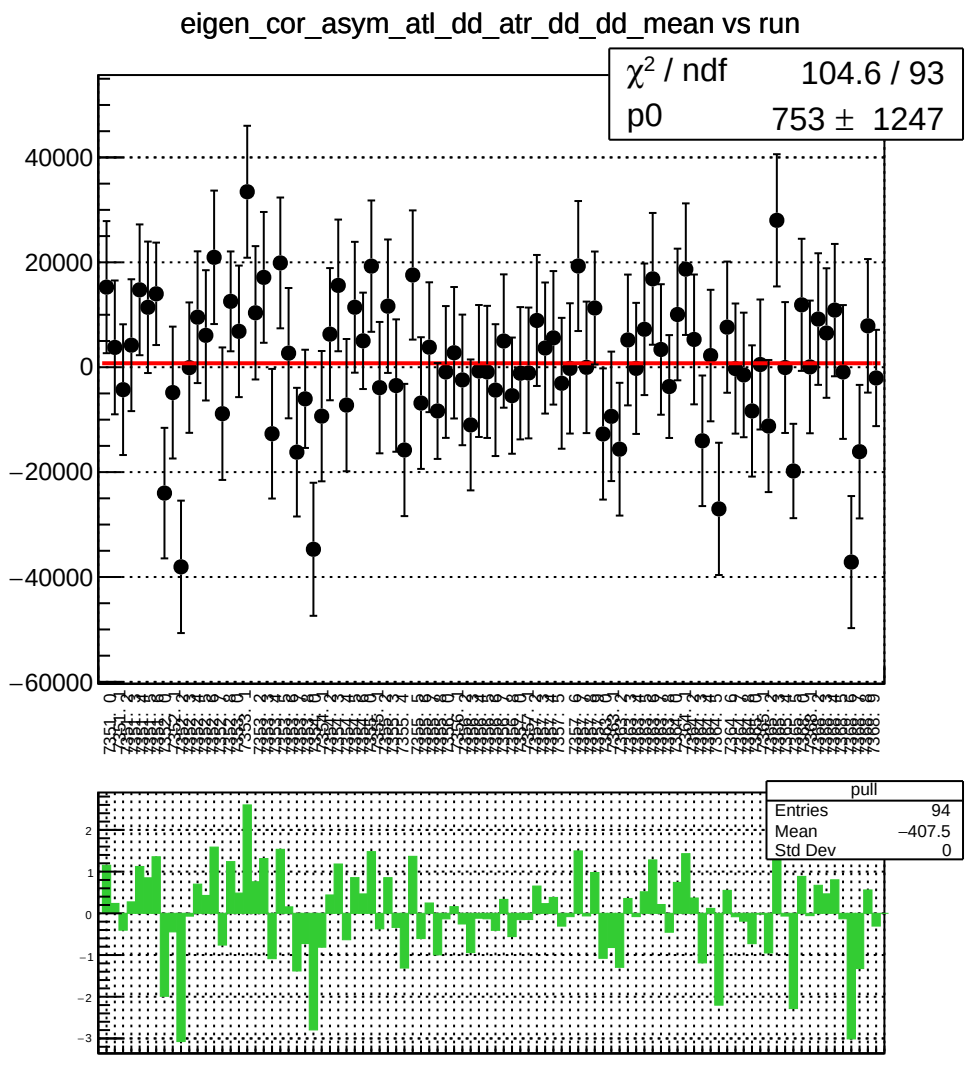

cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 104.6 / 93
p0 753 ± 1247
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −407.5
Std Dev 0
2
1
0
−1
−2
−3

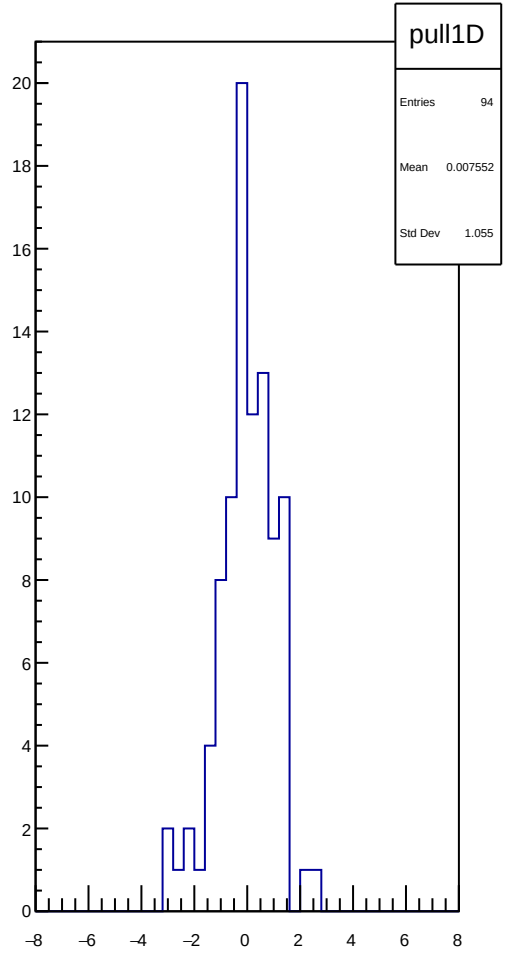

pull1D
Entries 94
Mean 0.007552
Std Dev 1.055
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

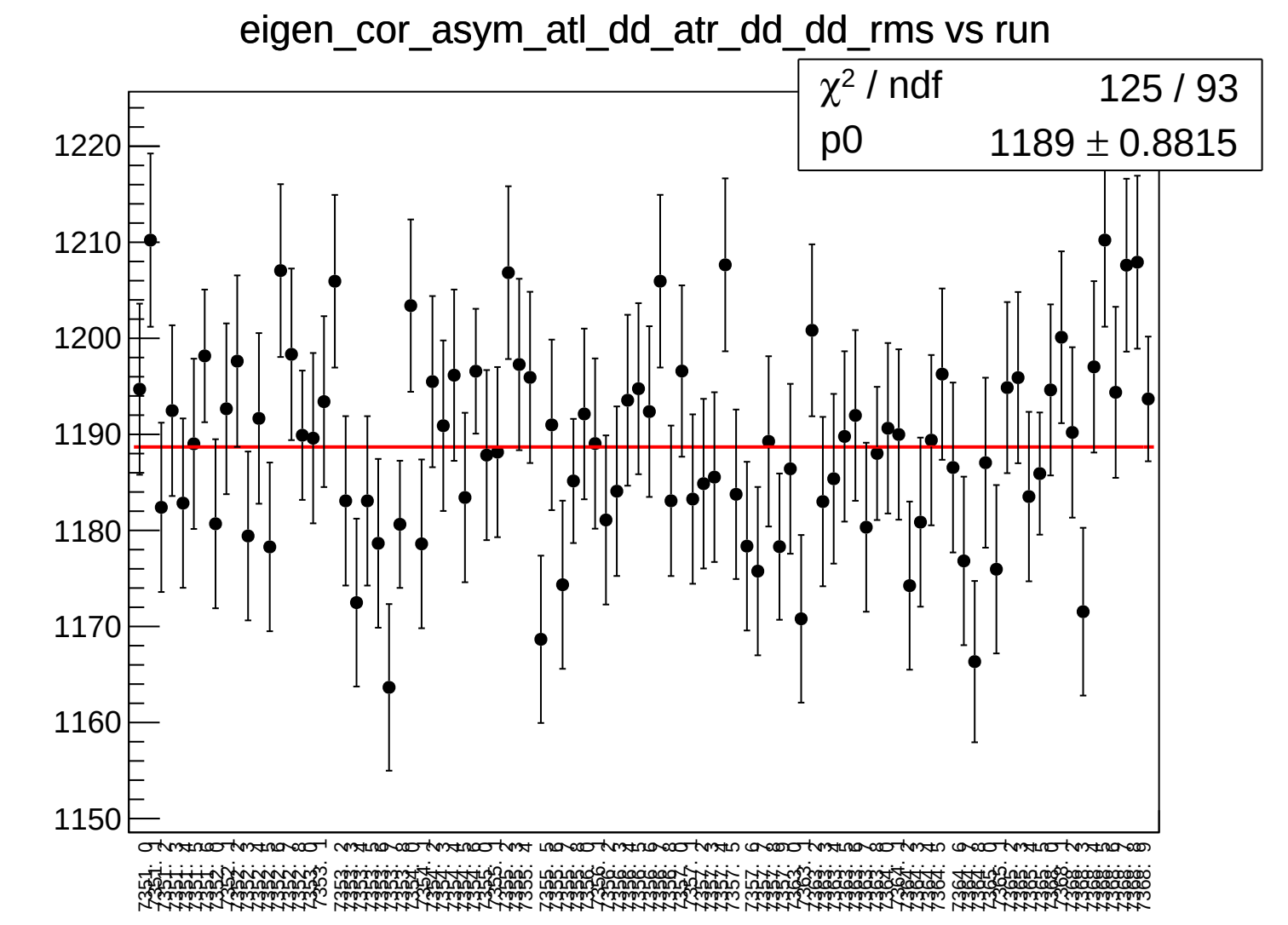

cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 125 / 93
p0 1189 ± 0.8815
1220
1210
1200
1190
1180
1170
1160
1150

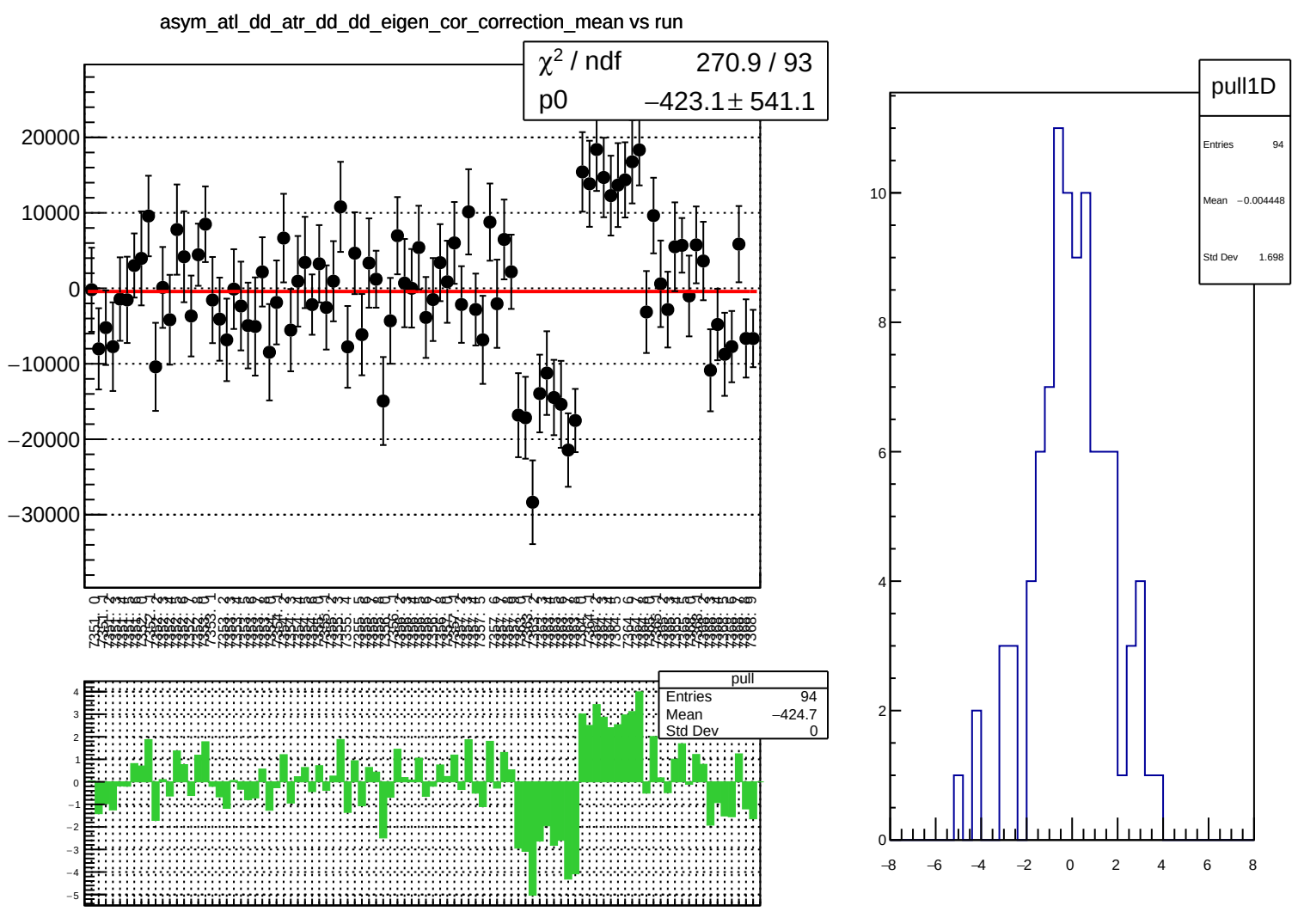

asym_atl_dd_atr_dd_dd_cor_correction_mean vs run
χ² / ndf 270.9 / 93
p0 −423.1 ± 541.1
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −424.7
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4
−5
pull1D
Entries 94
Mean −0.004448
Std Dev 1.698
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

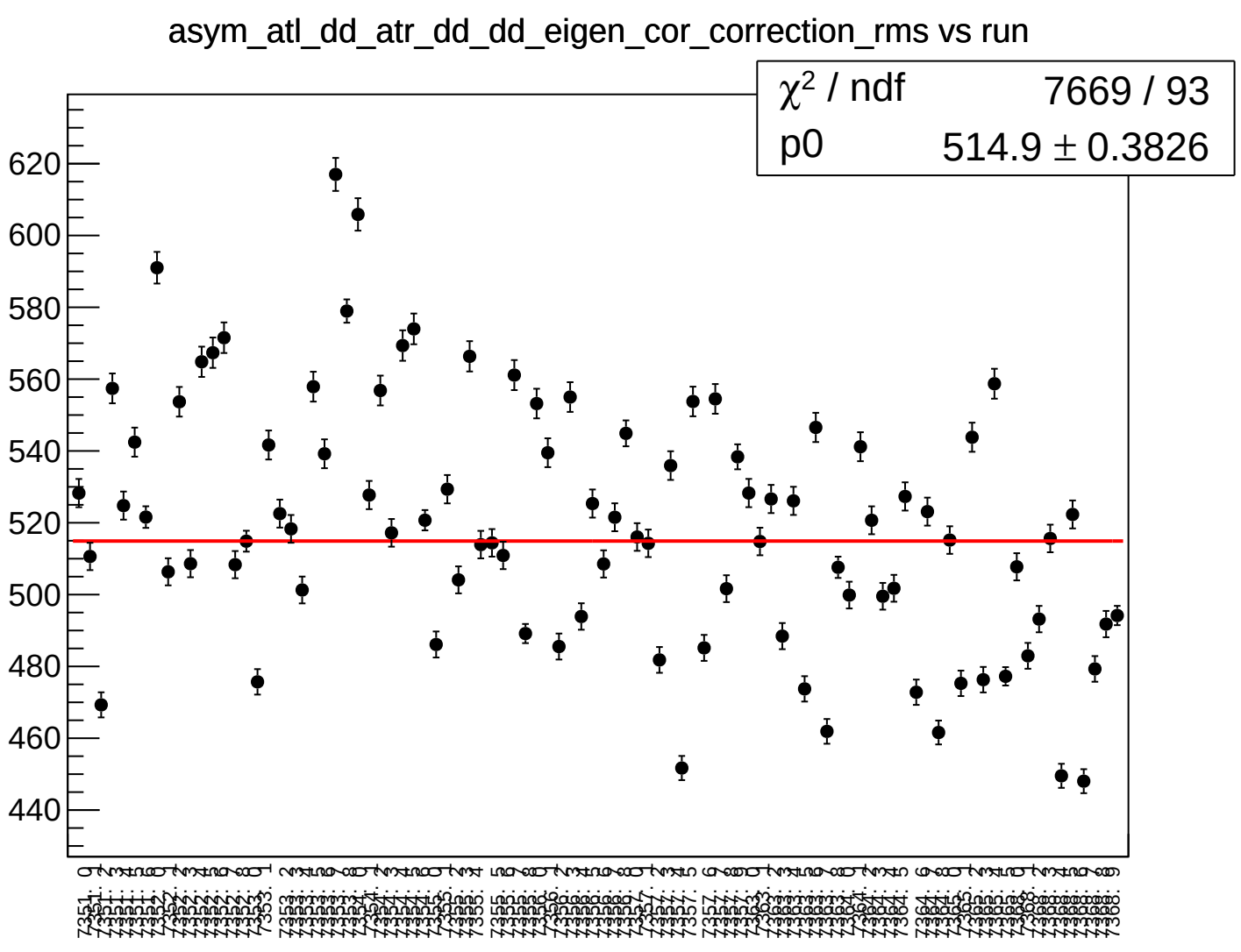

asym_atl_dd_atr_dd_dd_cor_correction_rms vs run
χ² / ndf 7669 / 93
p0 514.9 ± 0.3826
620
600
580
560
540
520
500
480
460
440

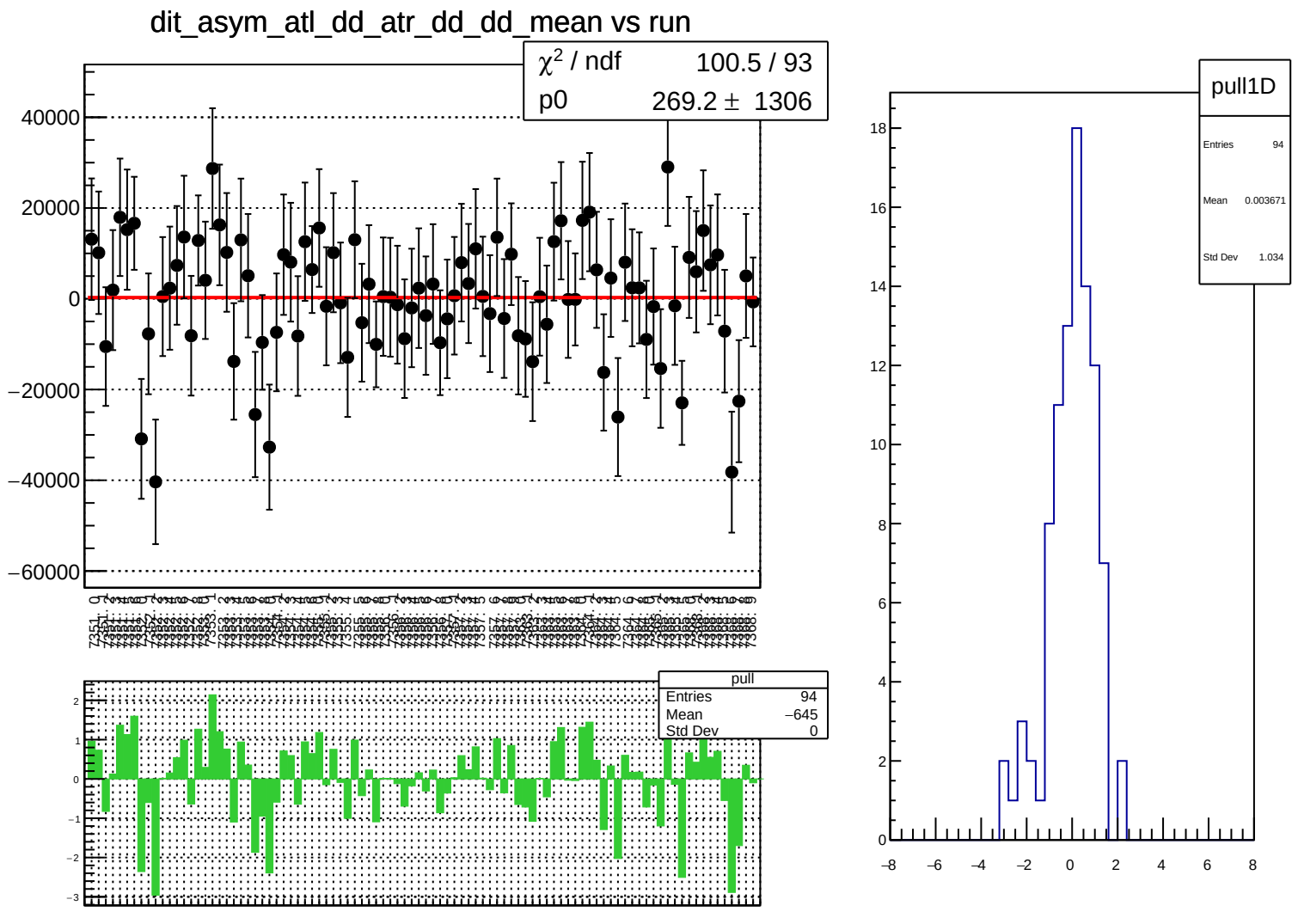

eigen_cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 104.6 / 93
p0 753 ± 1247
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −407.5
Std Dev 0
2
1
0
−1
−2
−3

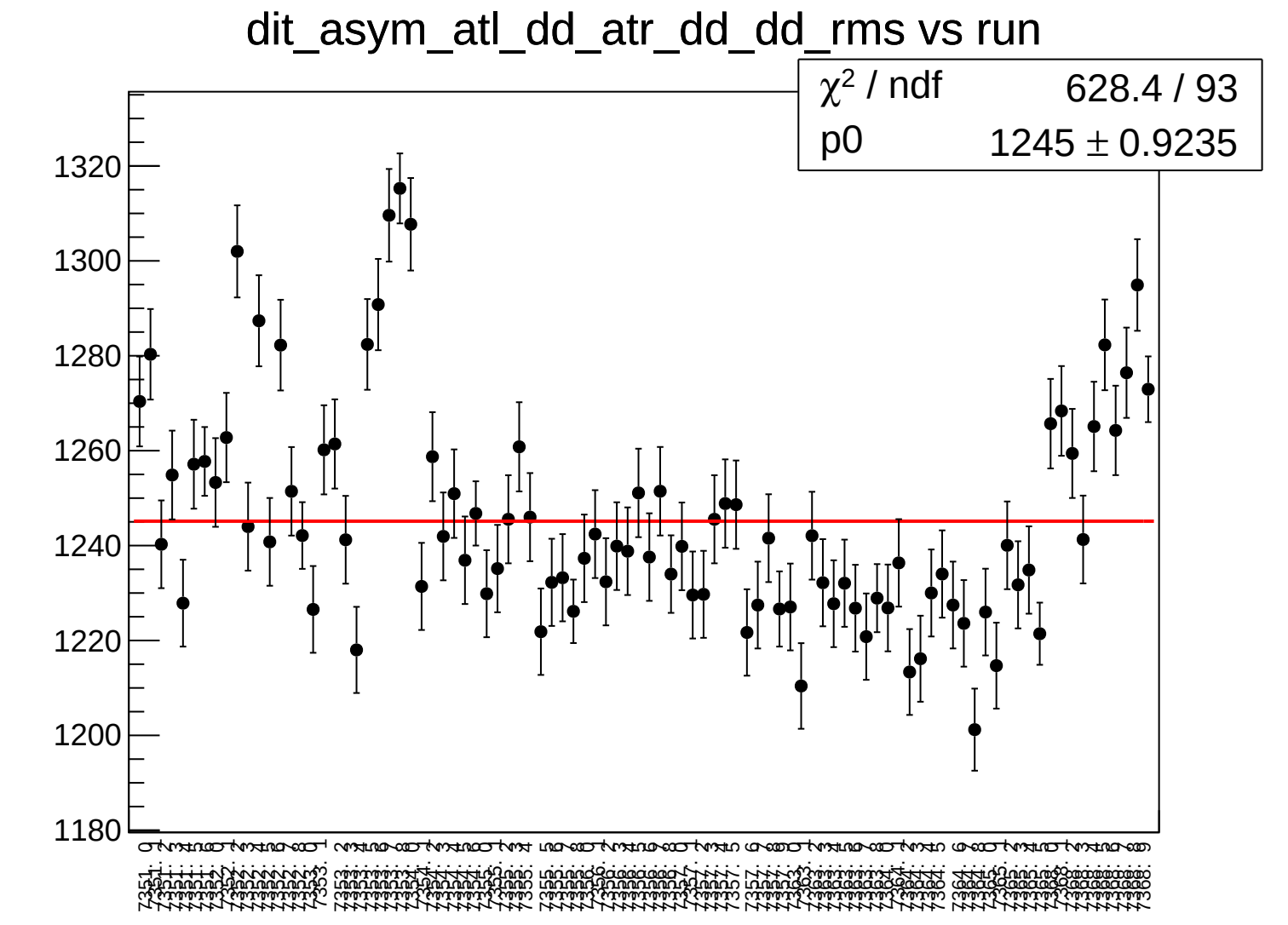

pull1D
Entries 94
Mean 0.007552
Std Dev 1.055
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

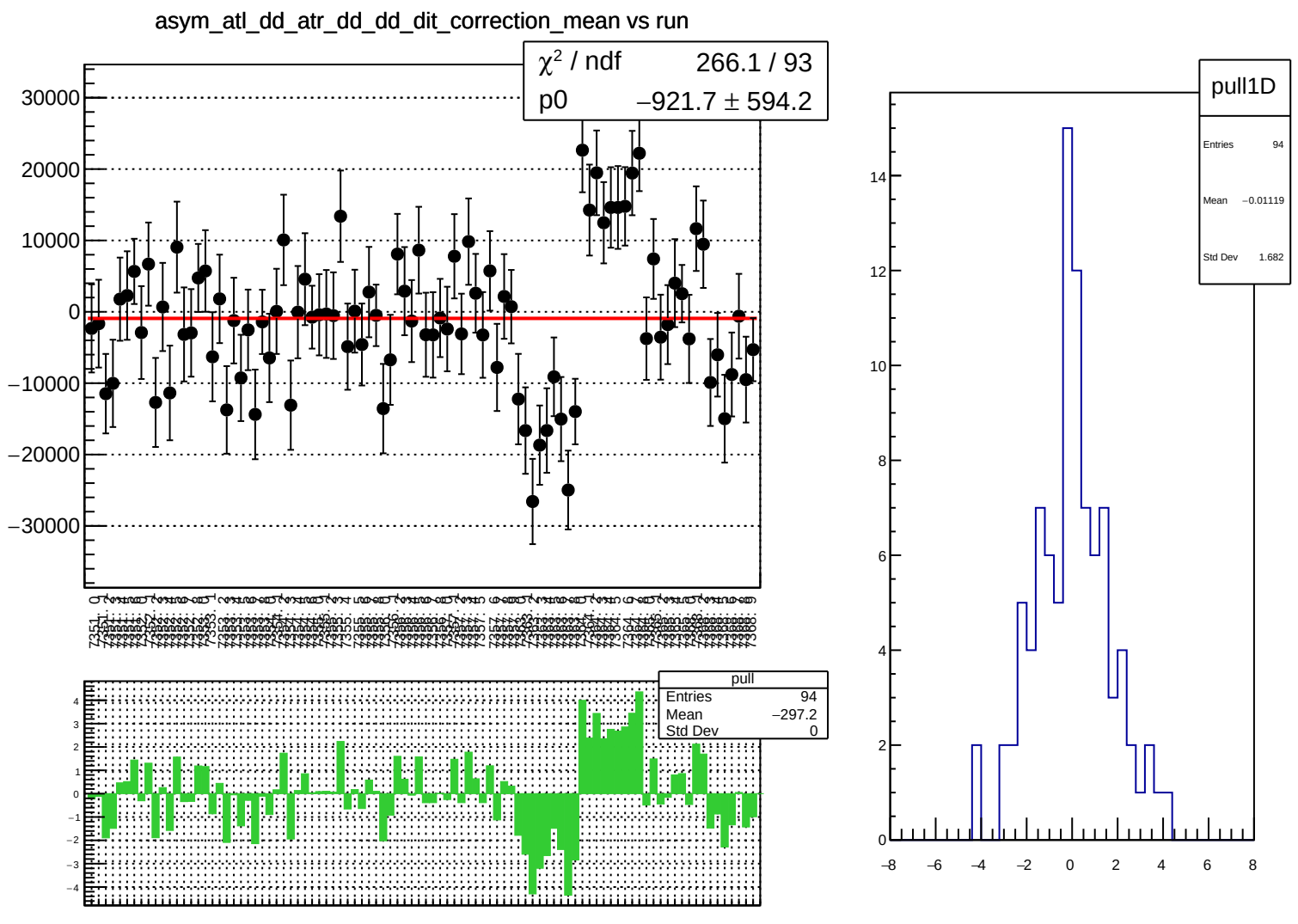

eigen_cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 125 / 93
p0 1189 ± 0.8815
1220
1210
1200
1190
1180
1170
1160
1150

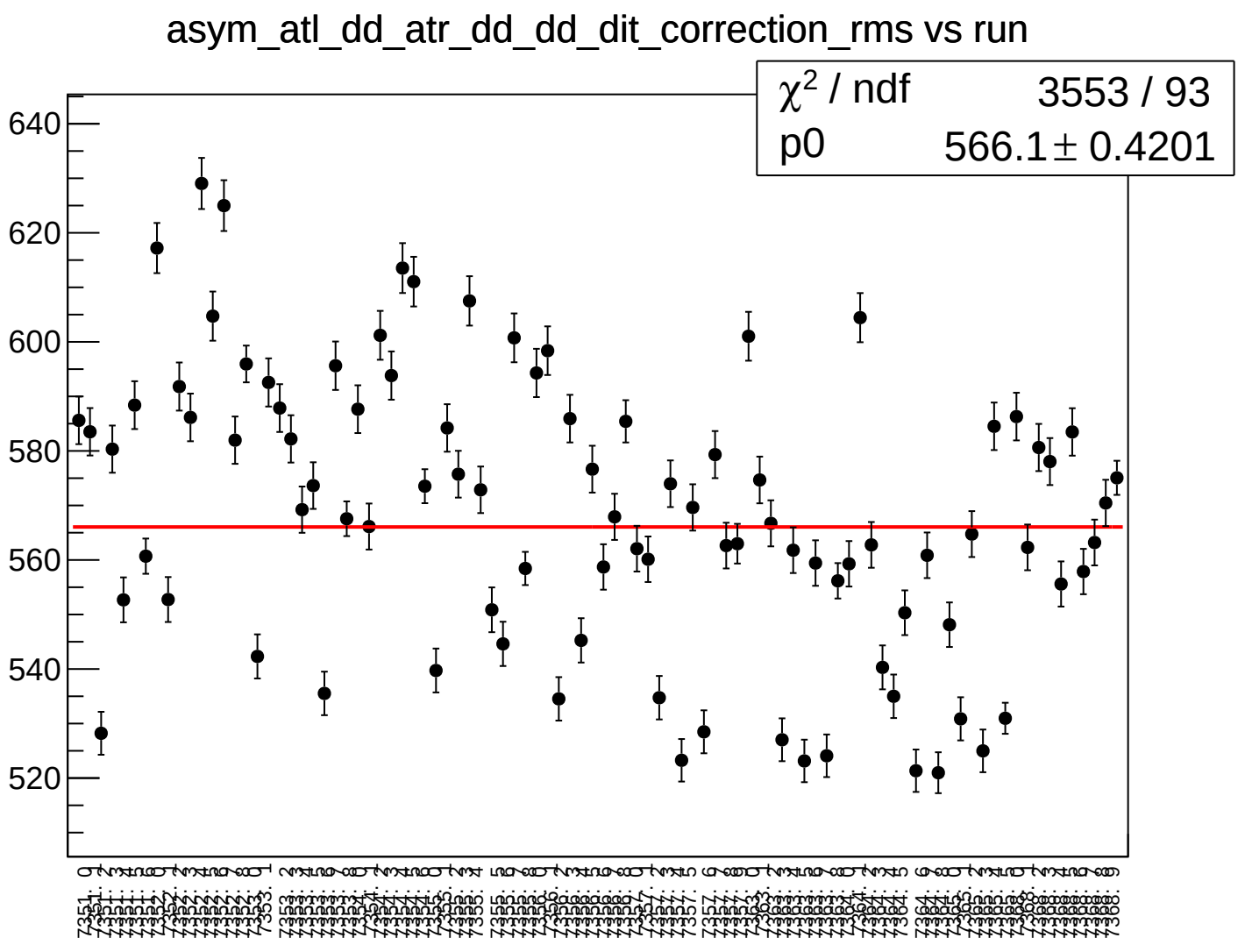

asym_atl_dd_atr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 270.9 / 93
p0 −423.1 ± 541.1
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −424.7
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4
−5
pull1D
Entries 94
Mean −0.004448
Std Dev 1.698
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

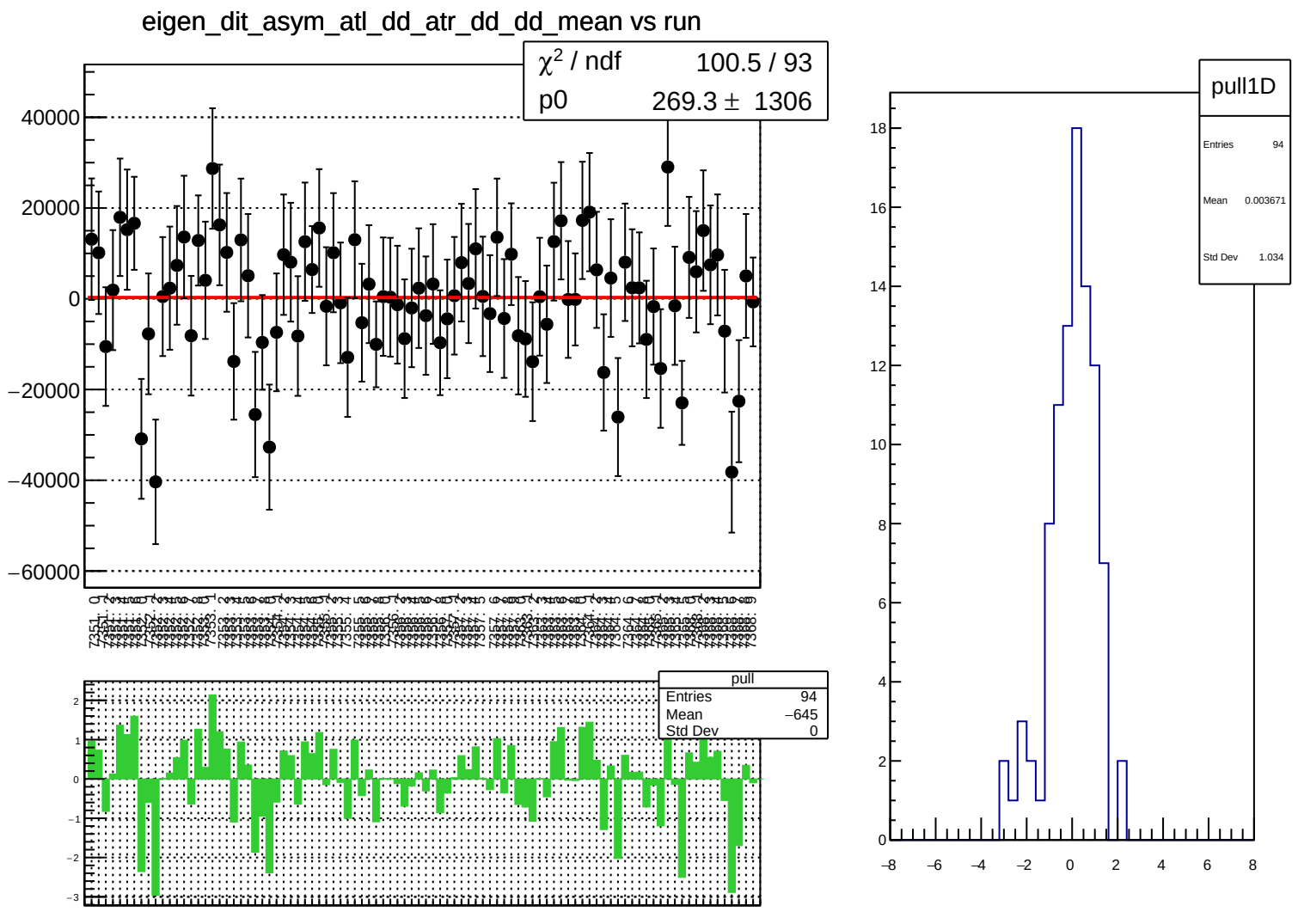

asym_atl_dd_atr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 7669 / 93
p0 514.9 ± 0.3826
620
600
580
560
540
520
500
480
460
440

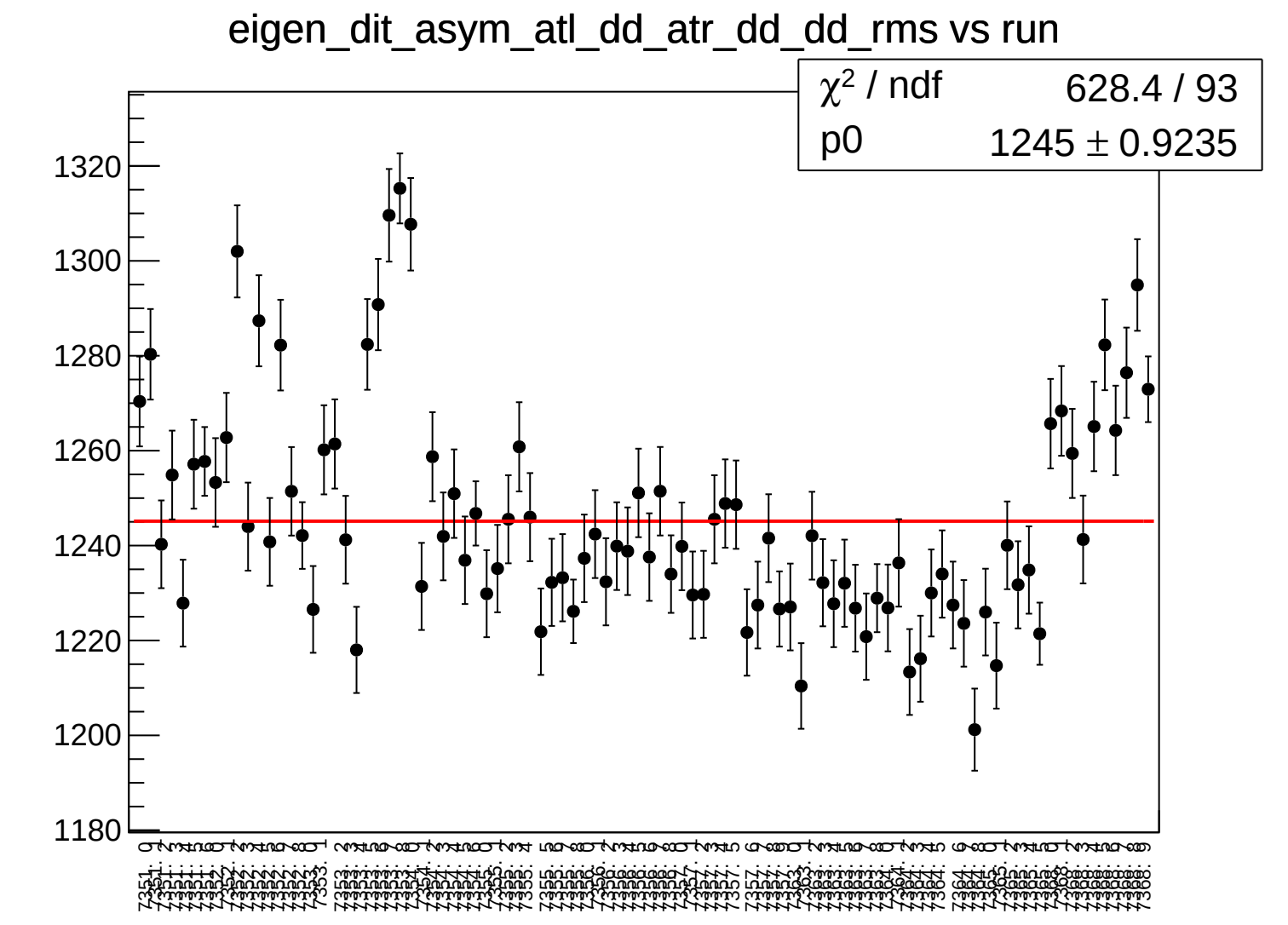

dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 100.5 / 93
p0 269.2 ± 1306
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −645
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.003671
Std Dev 1.034
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

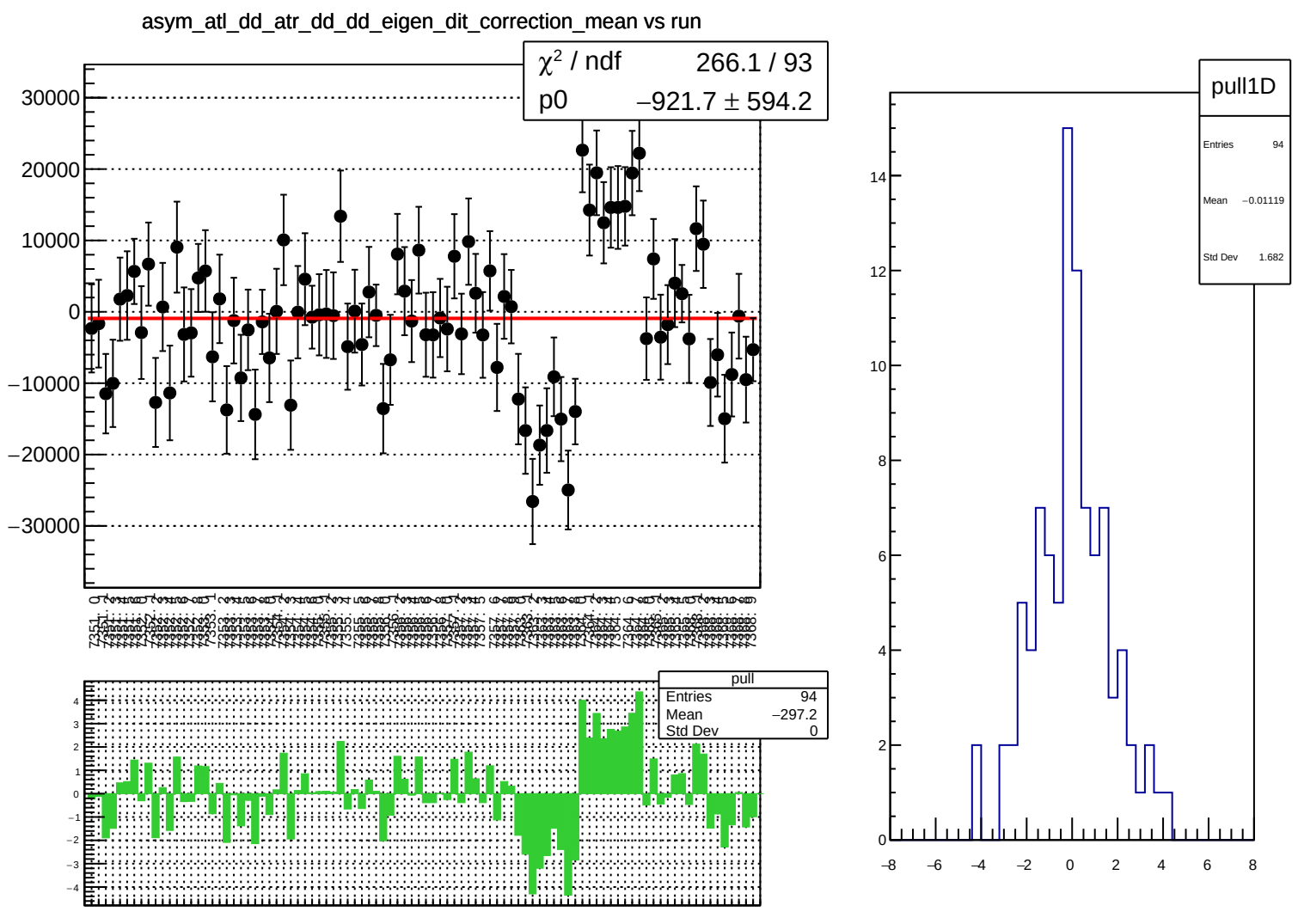

dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 628.4 / 93
p0 1245 ± 0.9235
1320
1300
1280
1260
1240
1220
1200
1180

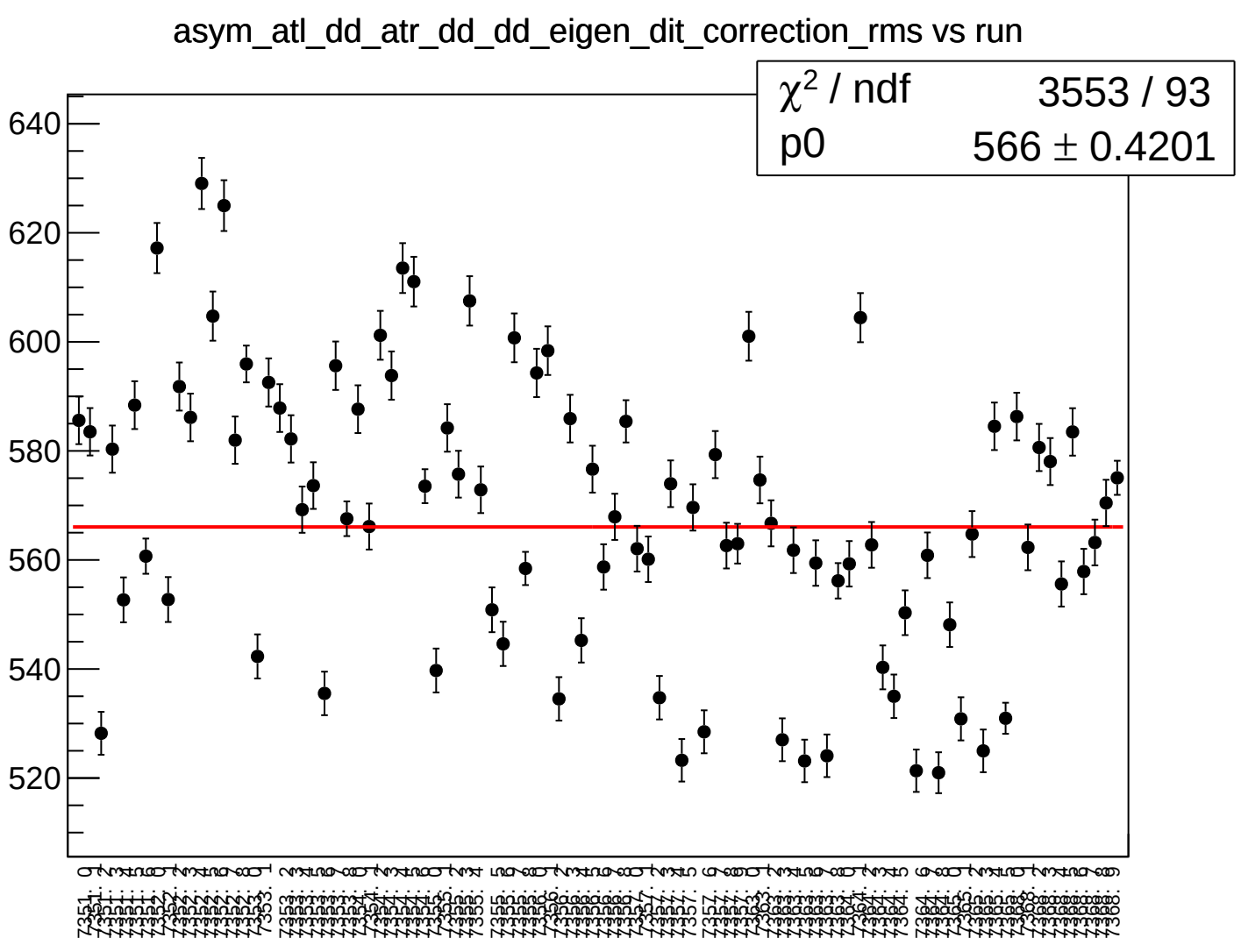

asym_atl_dd_atr_dd_dd_dit_correction_mean vs run
χ² / ndf 266.1 / 93
p0 −921.7 ± 594.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −297.2
Std Dev 0
pull1D
Entries 94
Mean −0.01119
Std Dev 1.682
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

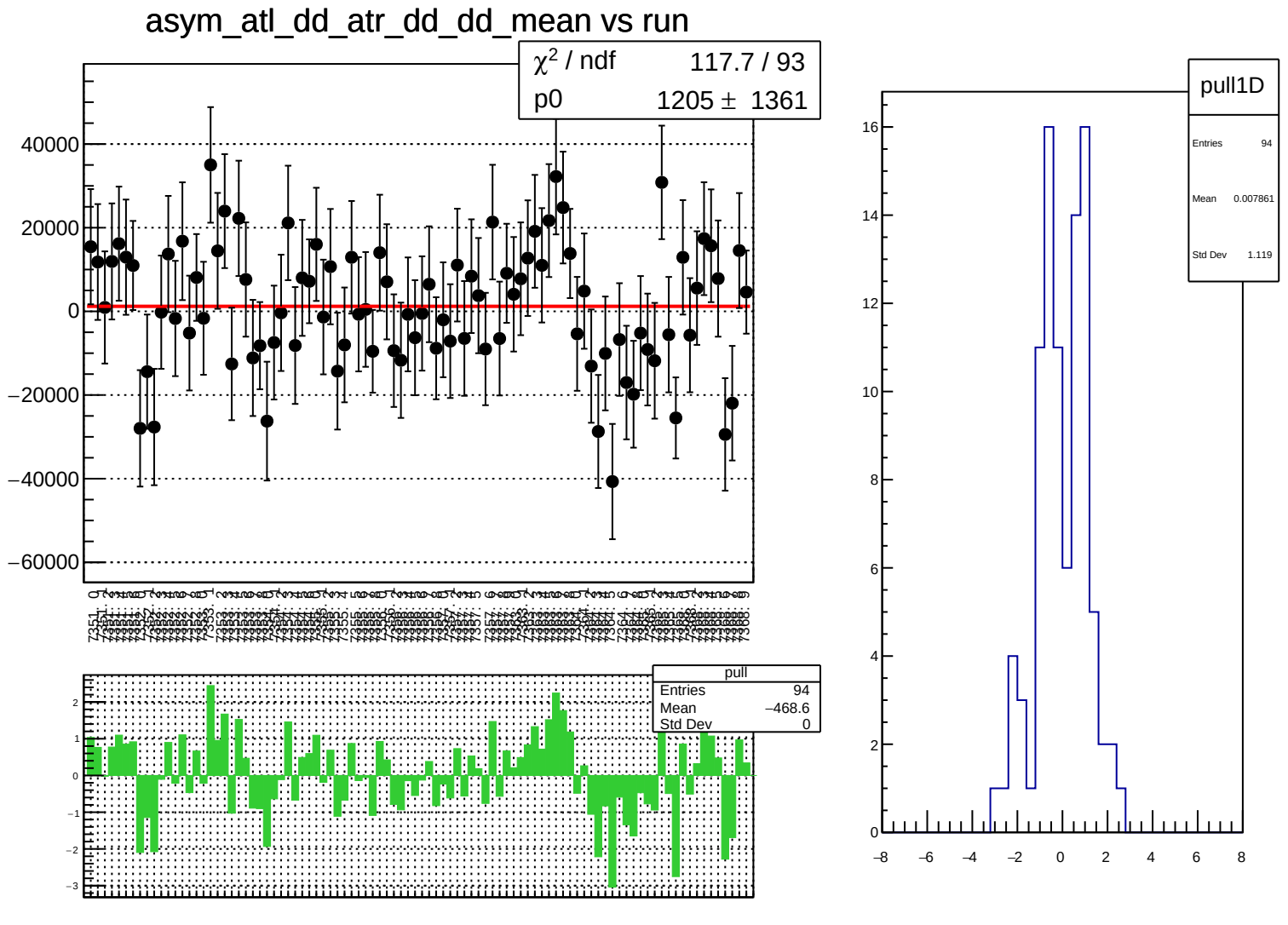

asym_atl_dd_atr_dd_dd_dit_correction_rms vs run
χ² / ndf 3553 / 93
p0 566.1 ± 0.4201
640
620
600
580
560
540
520

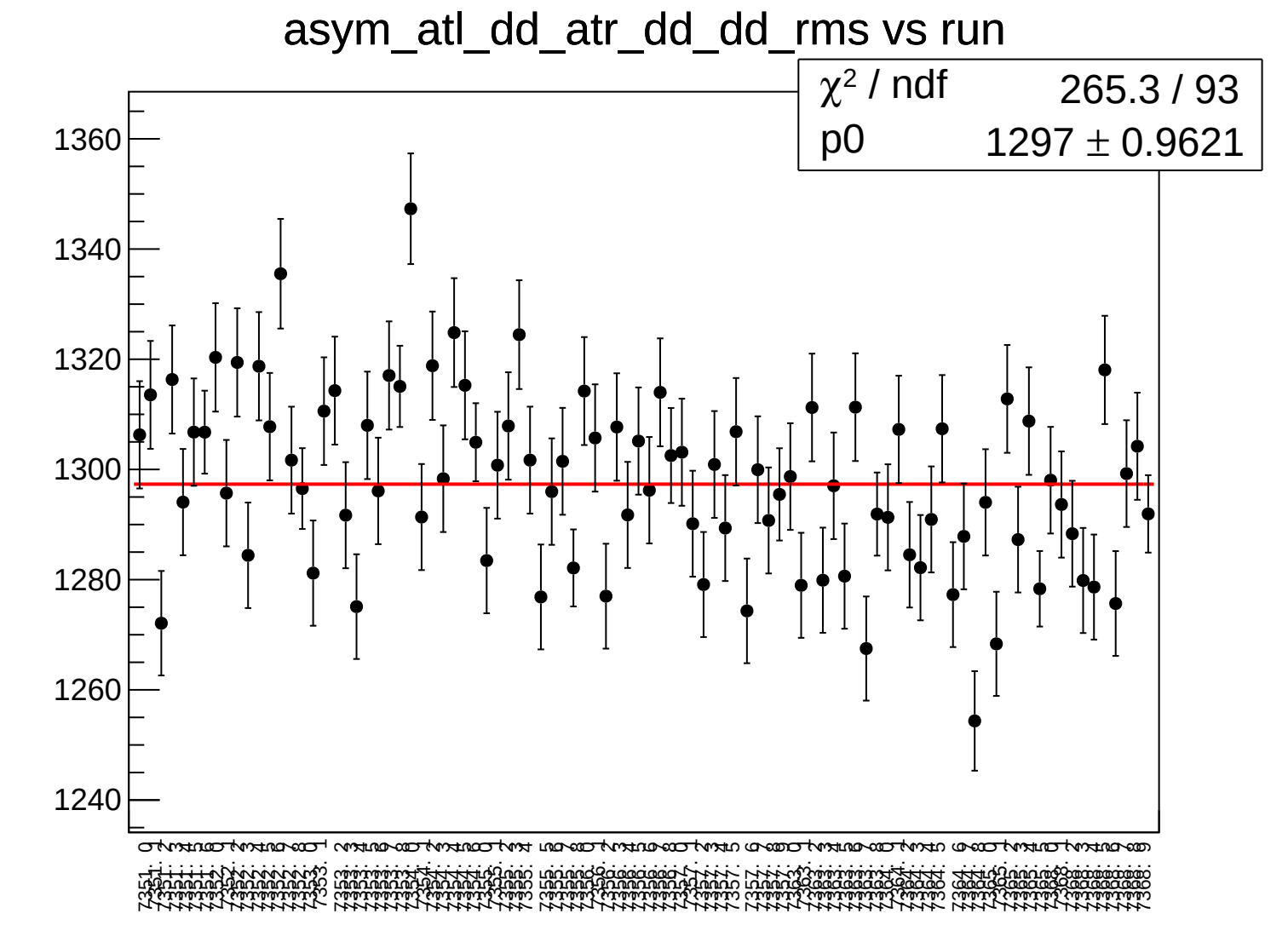

eigen_dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 100.5 / 93
p0 269.3 ± 1306
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −645
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.003671
Std Dev 1.034
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

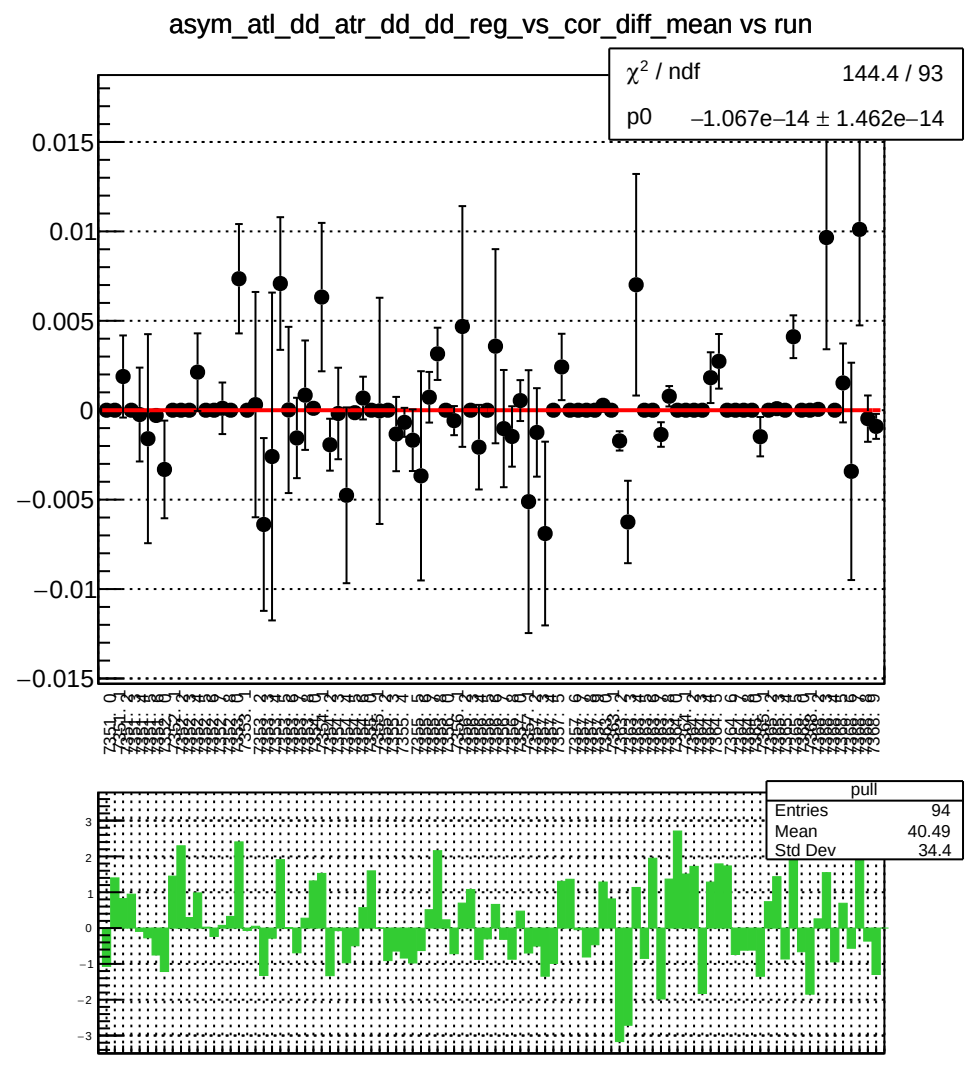

eigen_dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 628.4 / 93
p0 1245 ± 0.9235
1320
1300
1280
1260
1240
1220
1200
1180

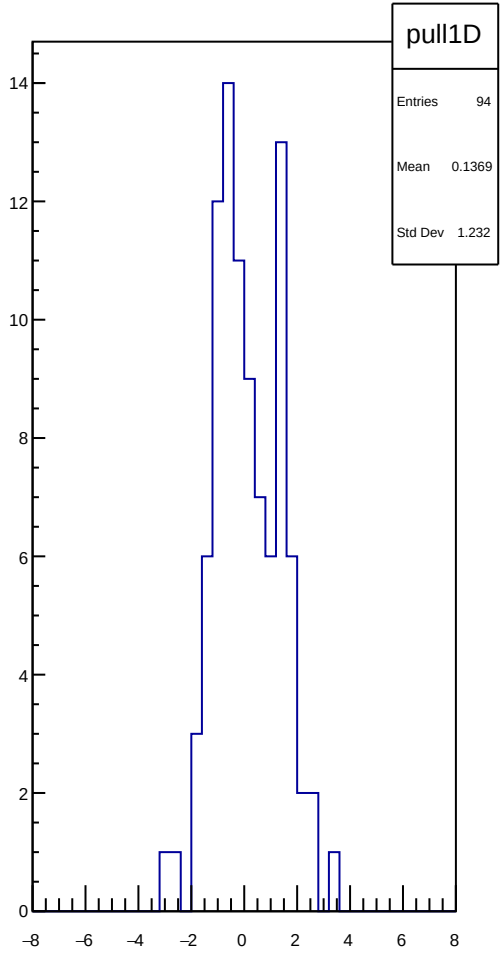

asym_atl_dd_atr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 266.1 / 93
p0 −921.7 ± 594.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −297.2
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 94
Mean −0.01119
Std Dev 1.682
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

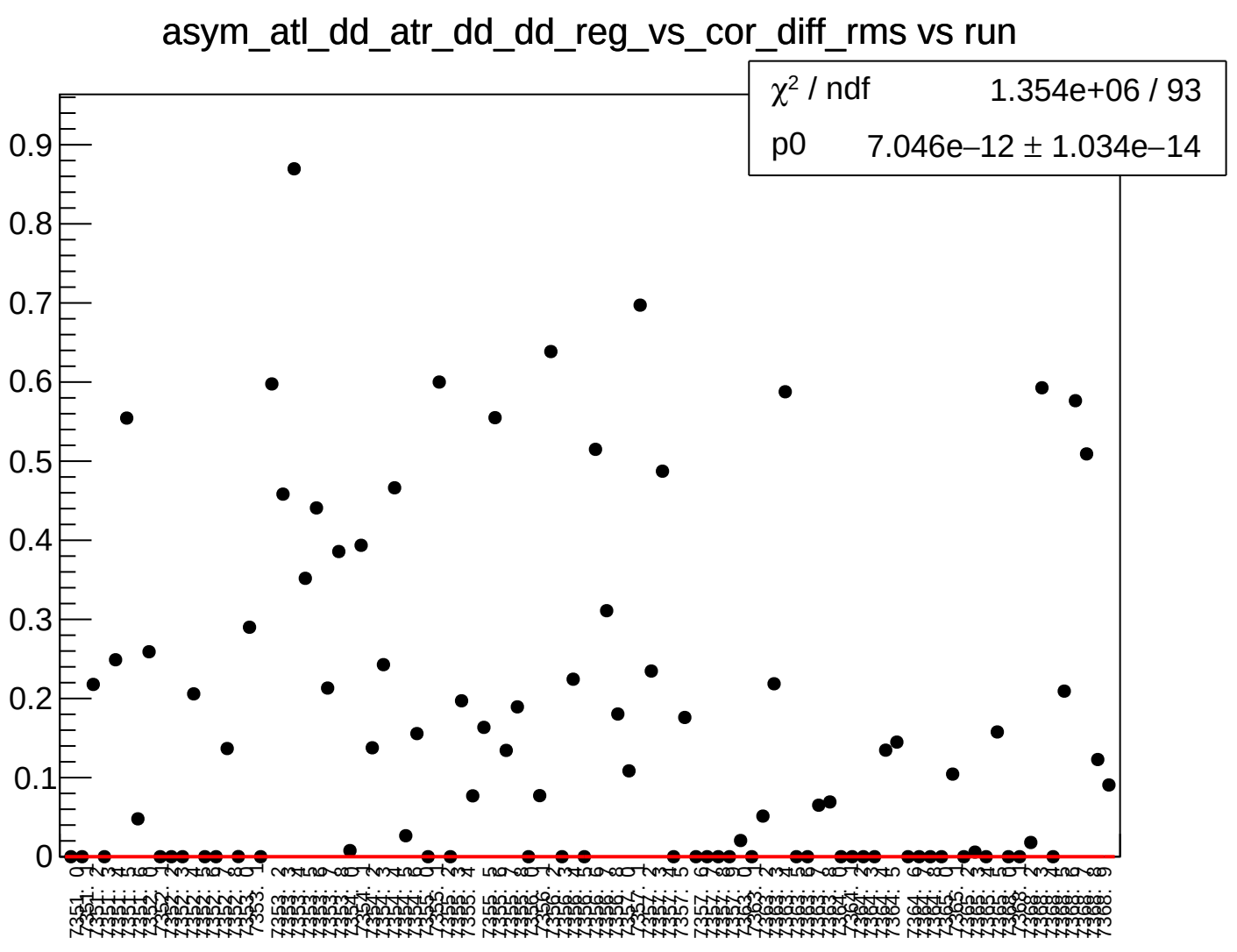

asym_atl_dd_atr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 3553 / 93
p0 566 ± 0.4201
640
620
600
580
560
540
520

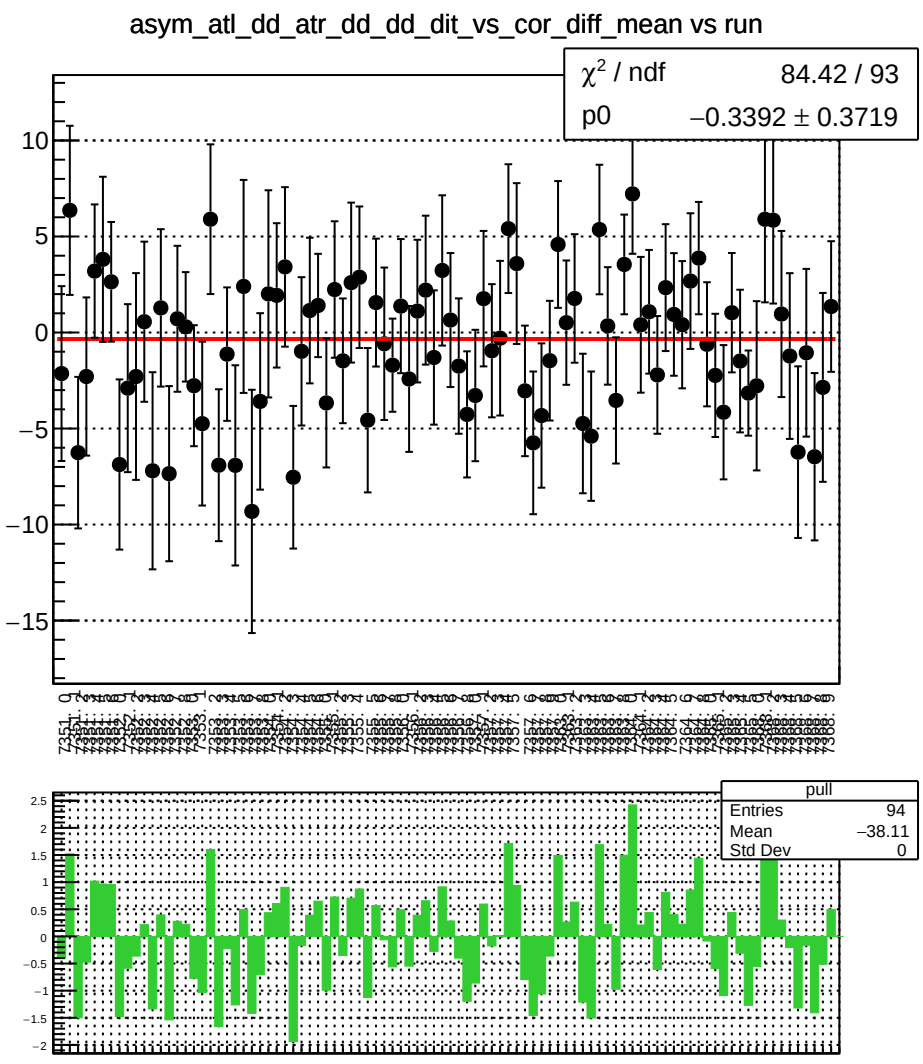

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 117.7 / 93
p0 1205 ± 1361
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −468.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.007861
Std Dev 1.119
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

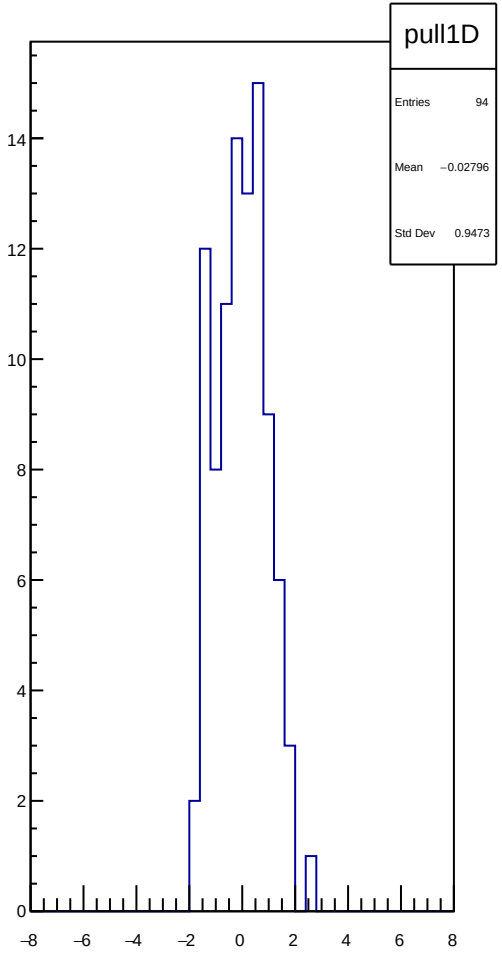

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 265.3 / 93
p0 1297 ± 0.9621
1360
1340
1320
1300
1280
1260
1240

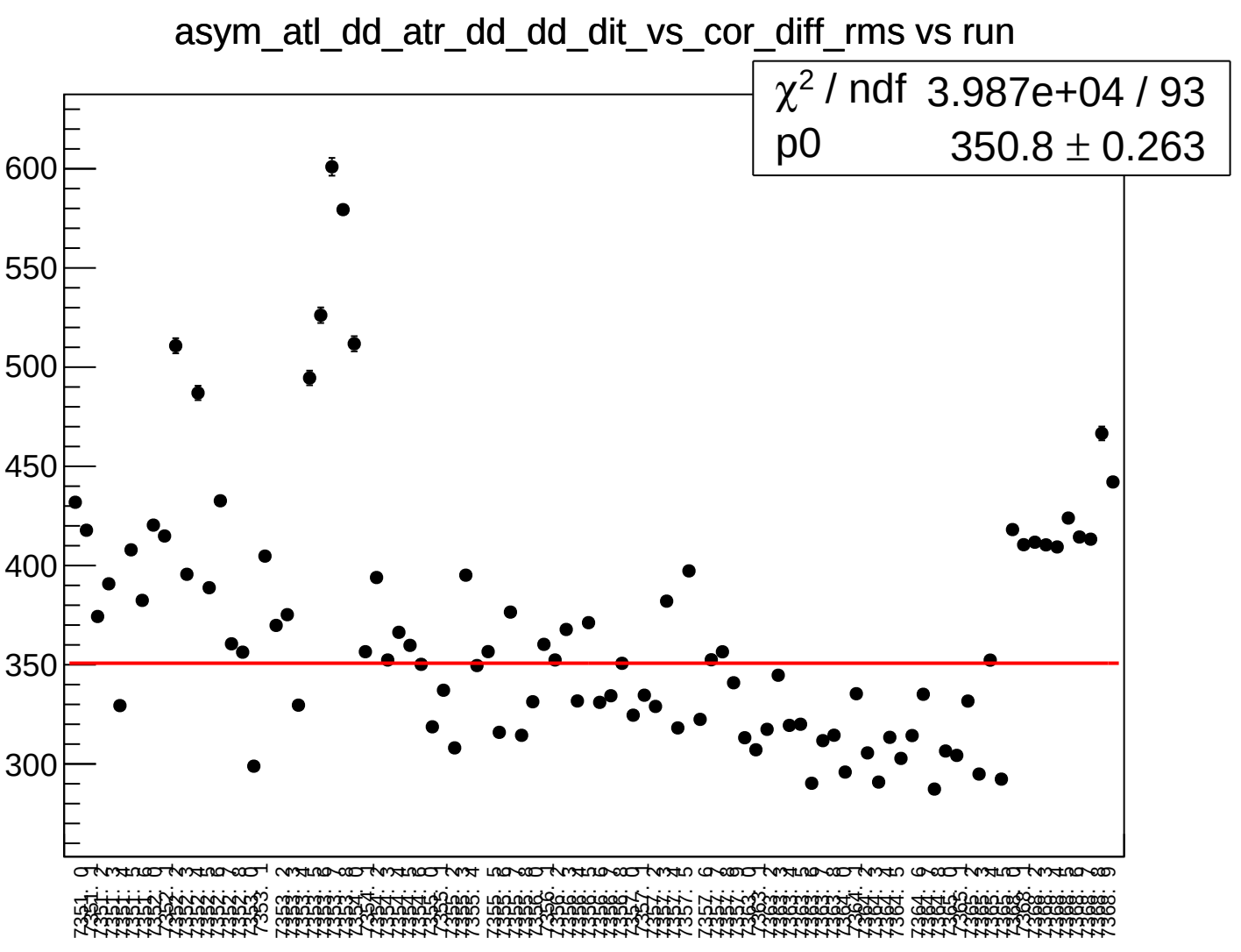

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 144.4 / 93
p0 −1.067e−14 ± 1.462e−14
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 94
Mean 40.49
Std Dev 34.4
3
2
1
0
−1
−2
−3

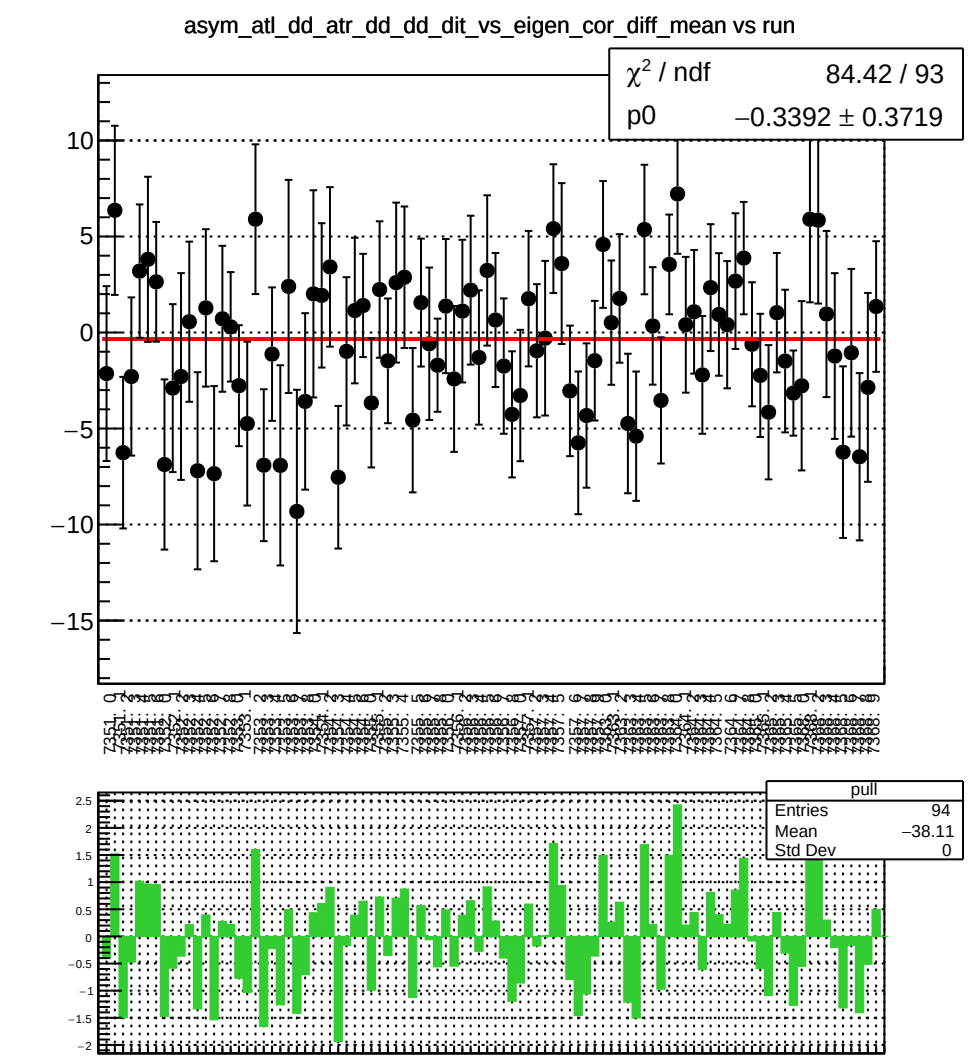

pull1D
Entries 94
Mean 0.1369
Std Dev 1.232
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

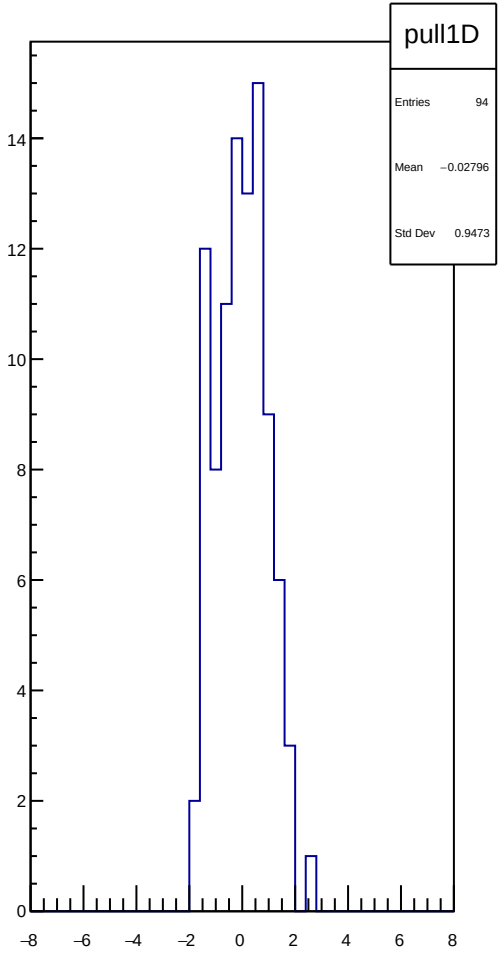

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.354e+06 / 93
p0 7.046e−12 ± 1.034e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

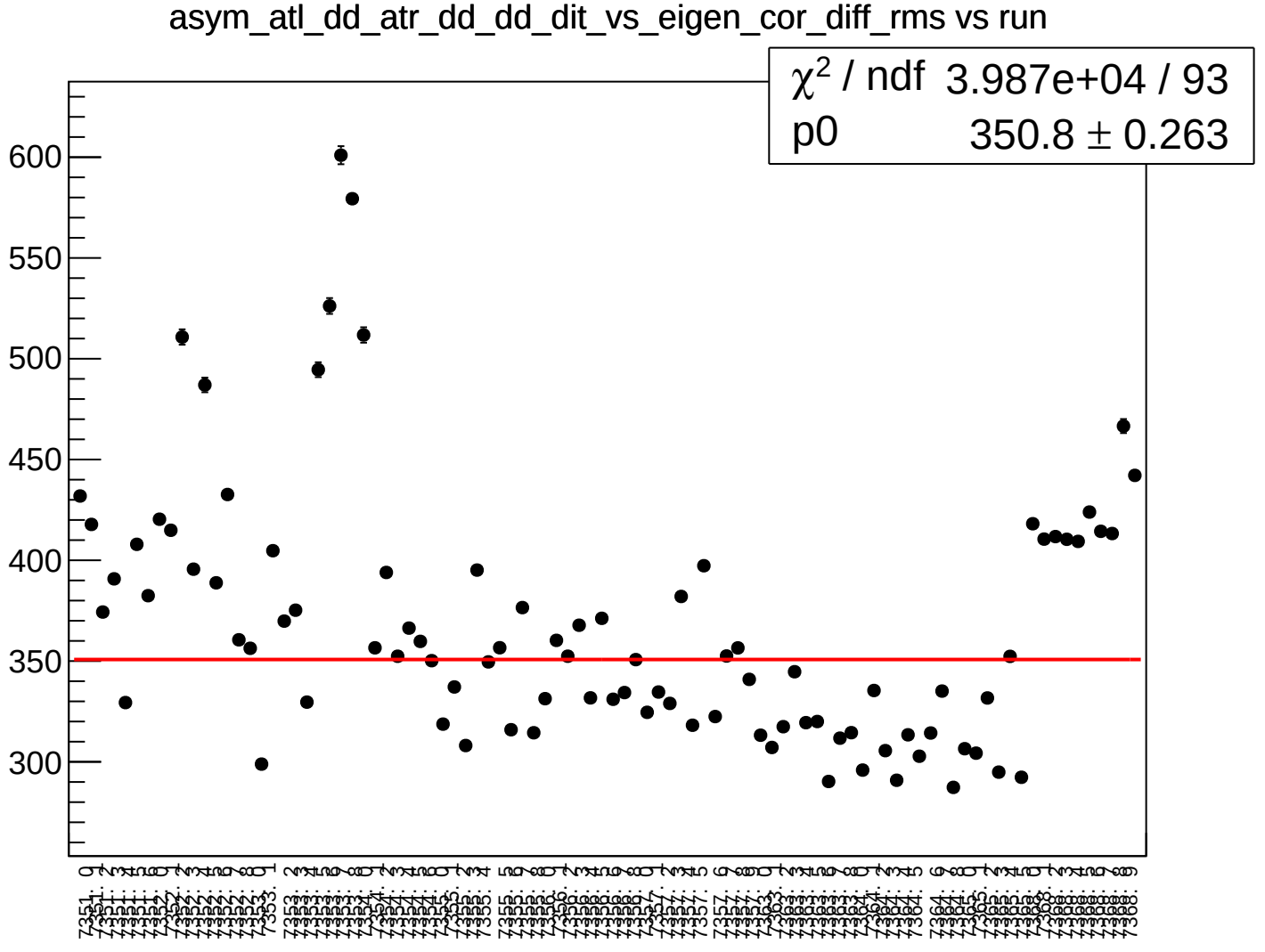

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 84.42 / 93
p0 −0.3392 ± 0.3719
pull
Entries 94
Mean −38.11
Std Dev 0

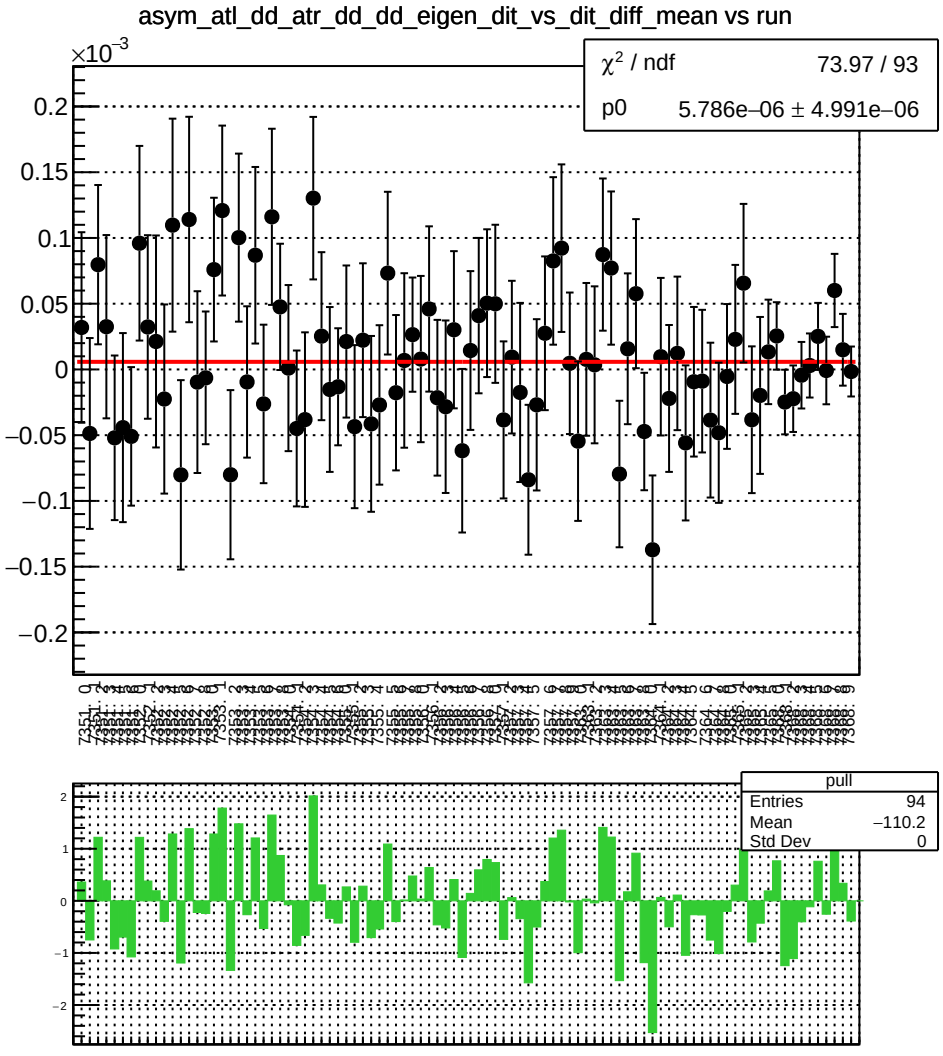

pull1D
Entries 94
Mean −0.02796
Std Dev 0.9473

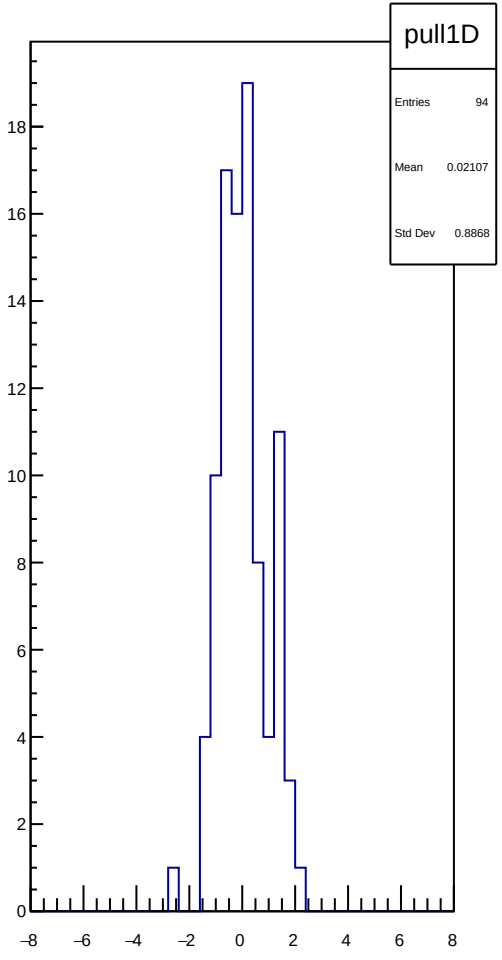

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.987e+04 / 93
p0 350.8 ± 0.263
600
550
500
450
400
350
300

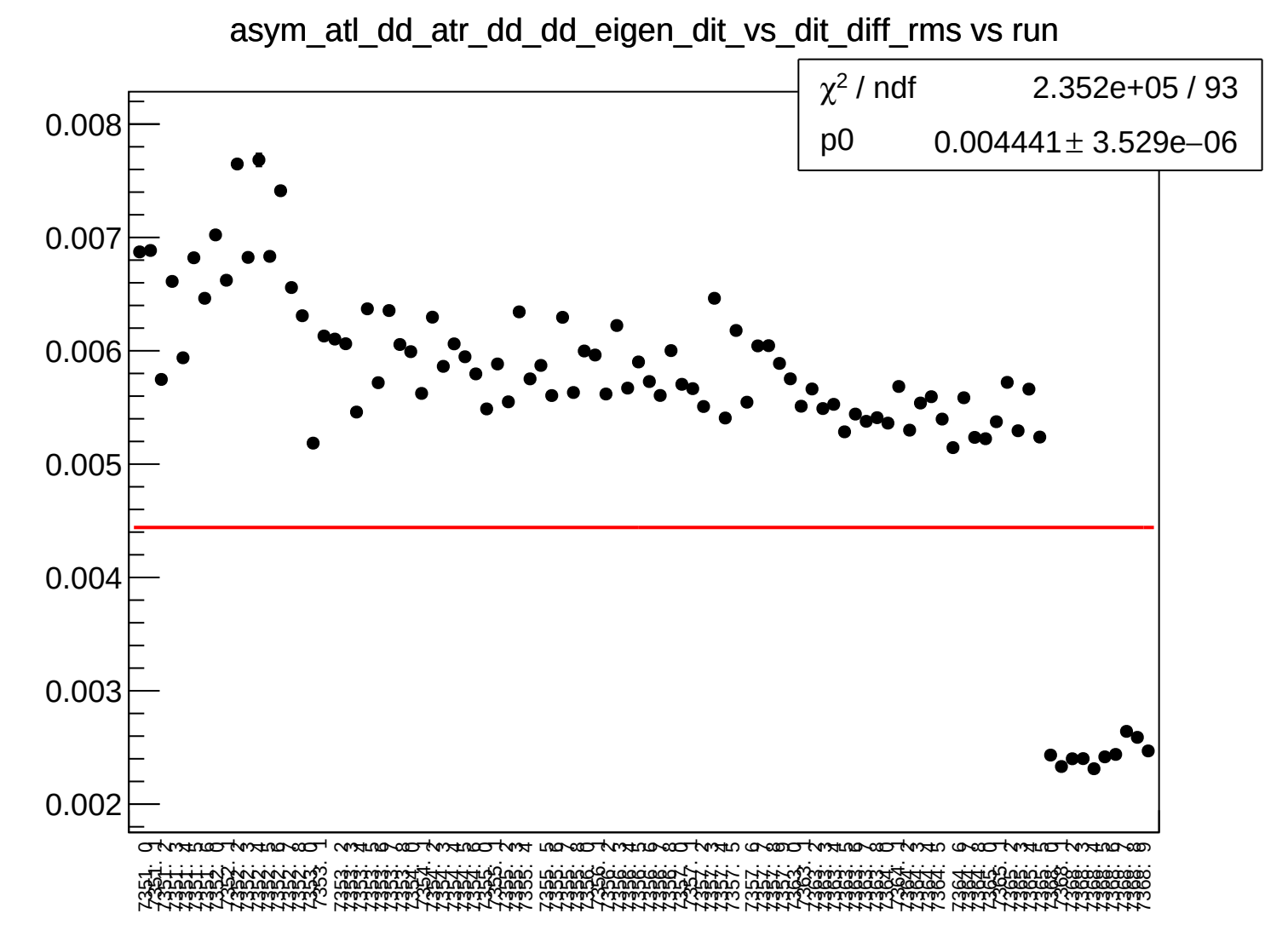

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.42 / 93
p0 −0.3392 ± 0.3719
pull
Entries 94
Mean −38.11
Std Dev 0

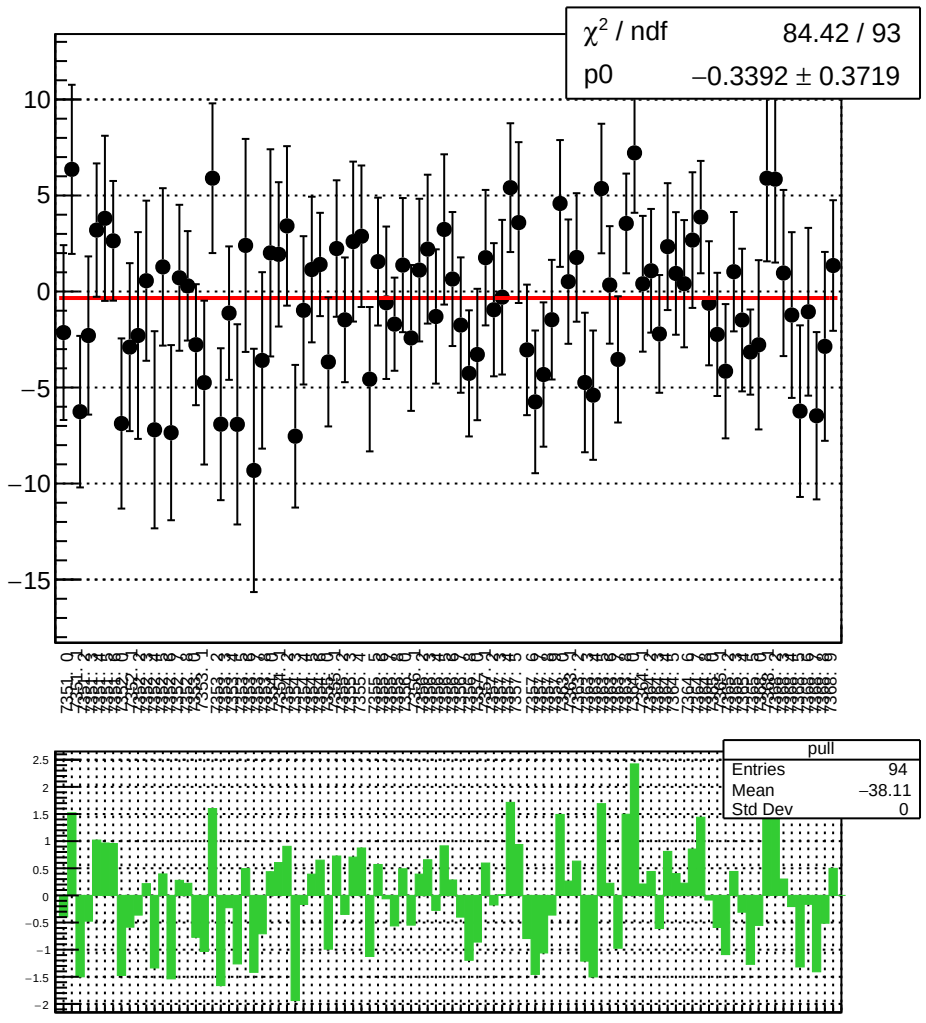

pull1D
Entries 94
Mean −0.02796
Std Dev 0.9473

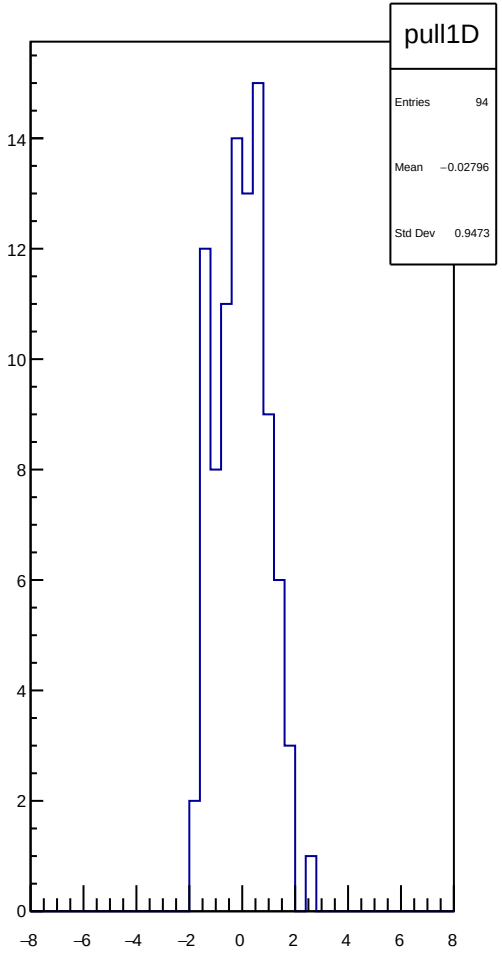

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.987e+04 / 93
p0 350.8 ± 0.263
600
550
500
450
400
350
300

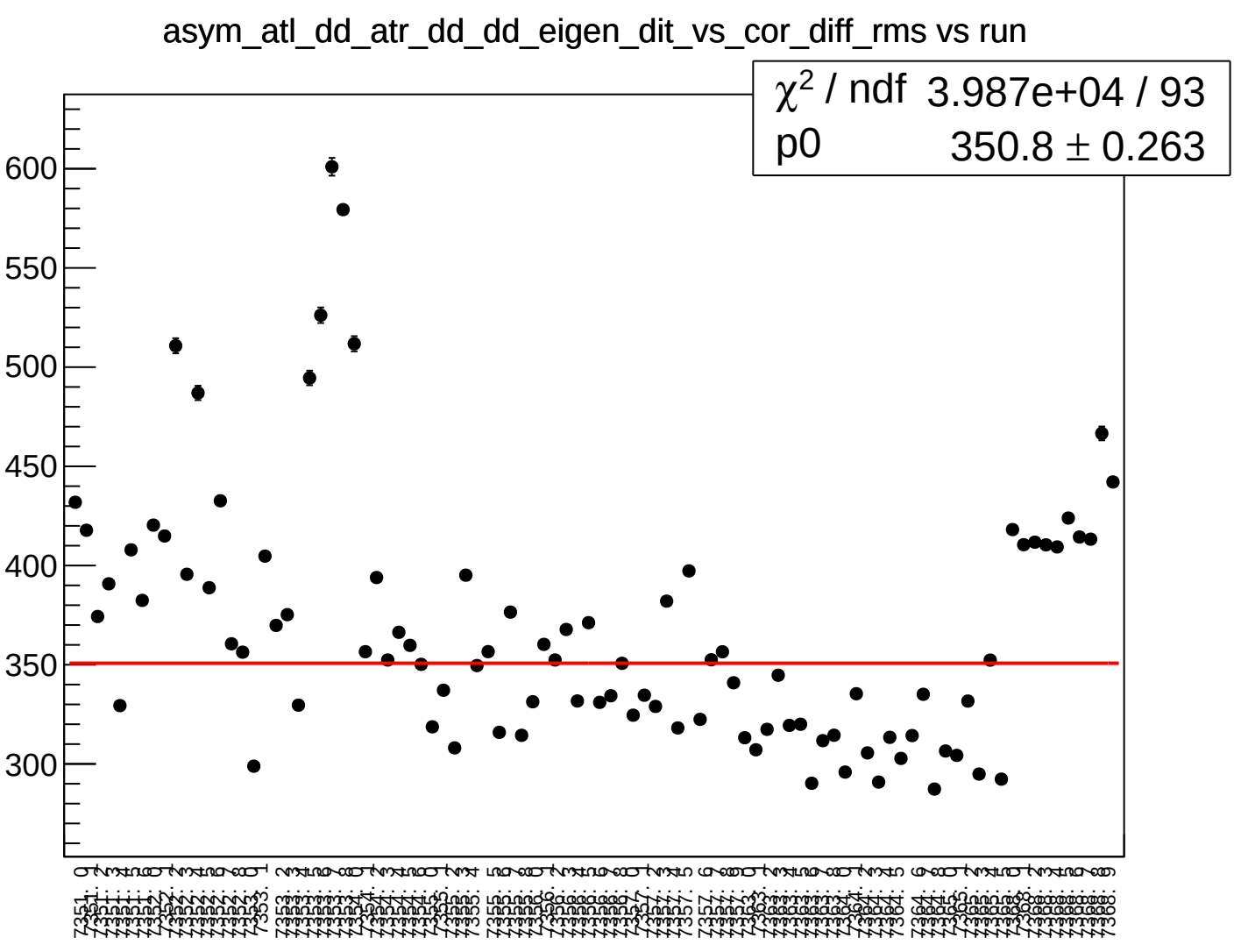

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 73.97 / 93
p0 5.786e−06 ± 4.991e−06
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
pull
Entries 94
Mean −110.2
Std Dev 0
2
1
0
−1
−2

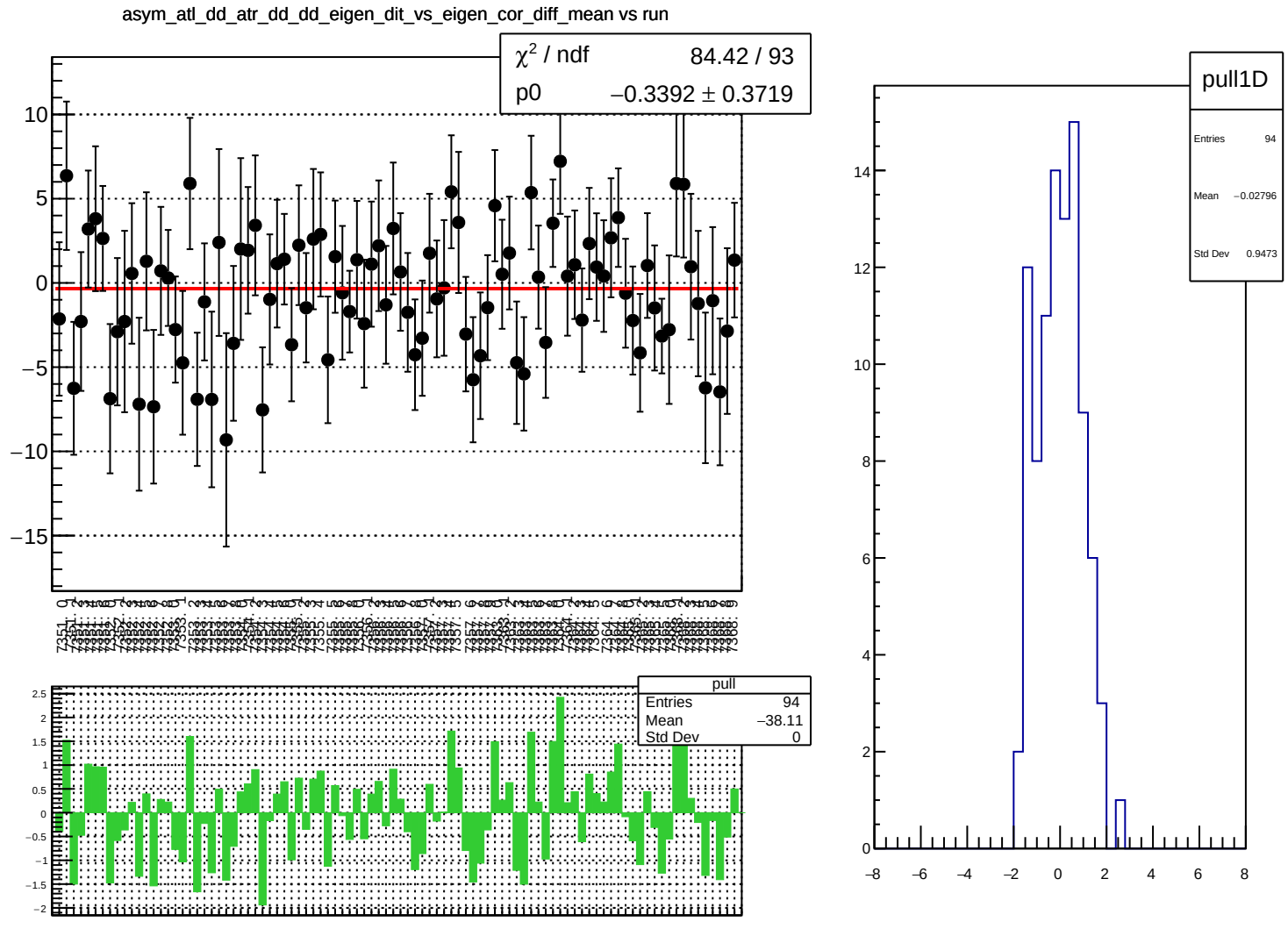

pull1D
Entries 94
Mean 0.02107
Std Dev 0.8868
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

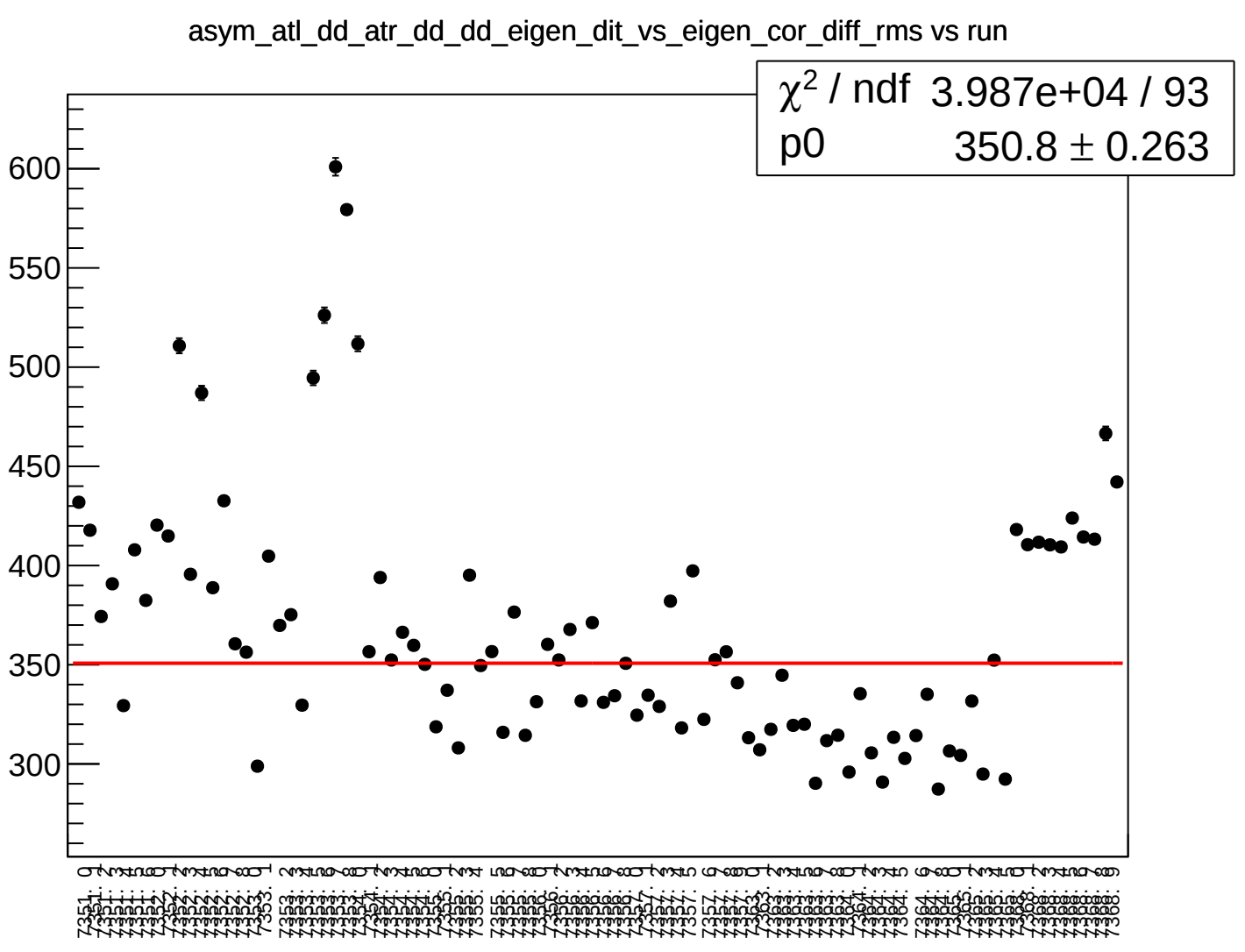

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.352e+05 / 93
p0 0.004441 ± 3.529e−06
0.008
0.007
0.006
0.005
0.004
0.003
0.002

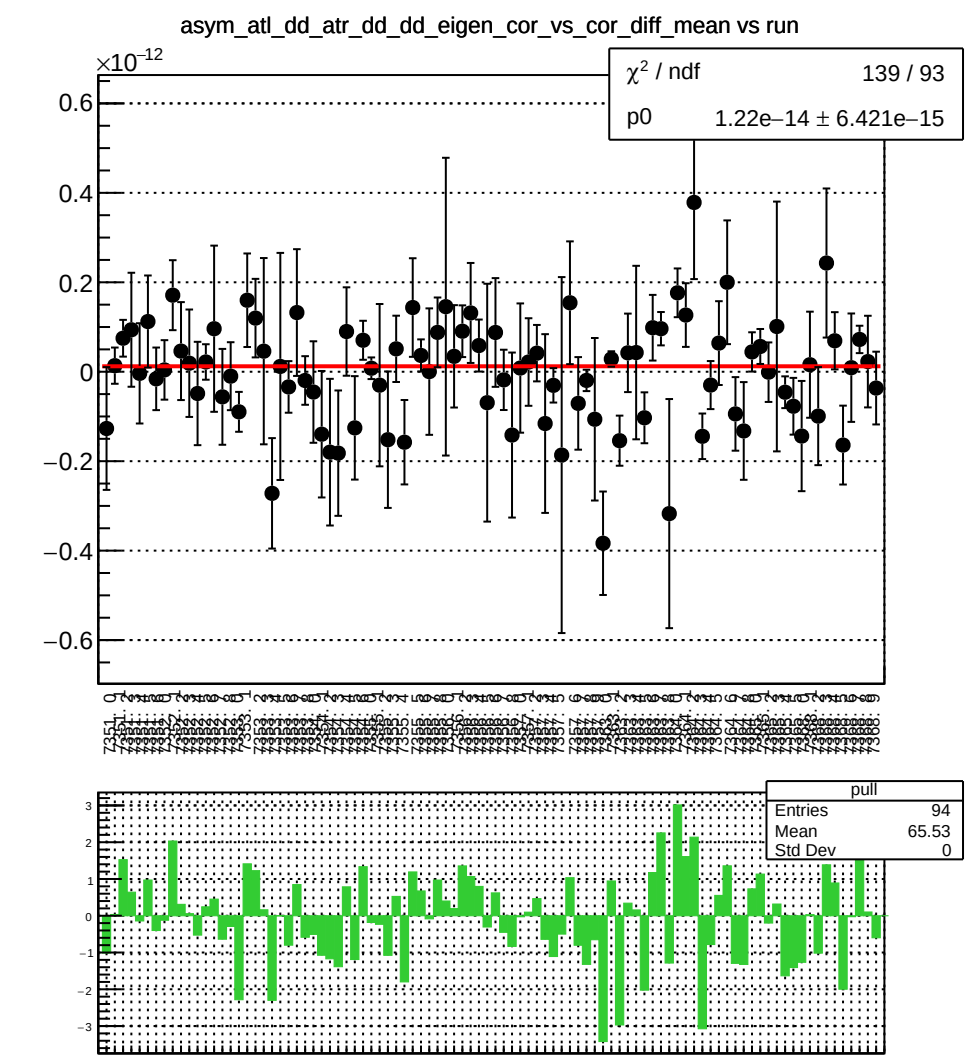

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.42 / 93
p0 −0.3392 ± 0.3719
pull
Entries 94
Mean −38.11
Std Dev 0

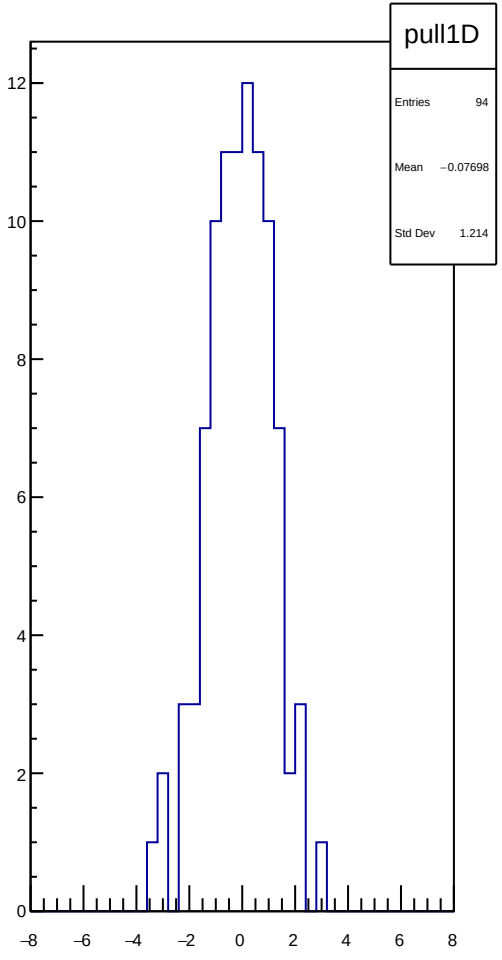

pull1D
Entries 94
Mean −0.02796
Std Dev 0.9473

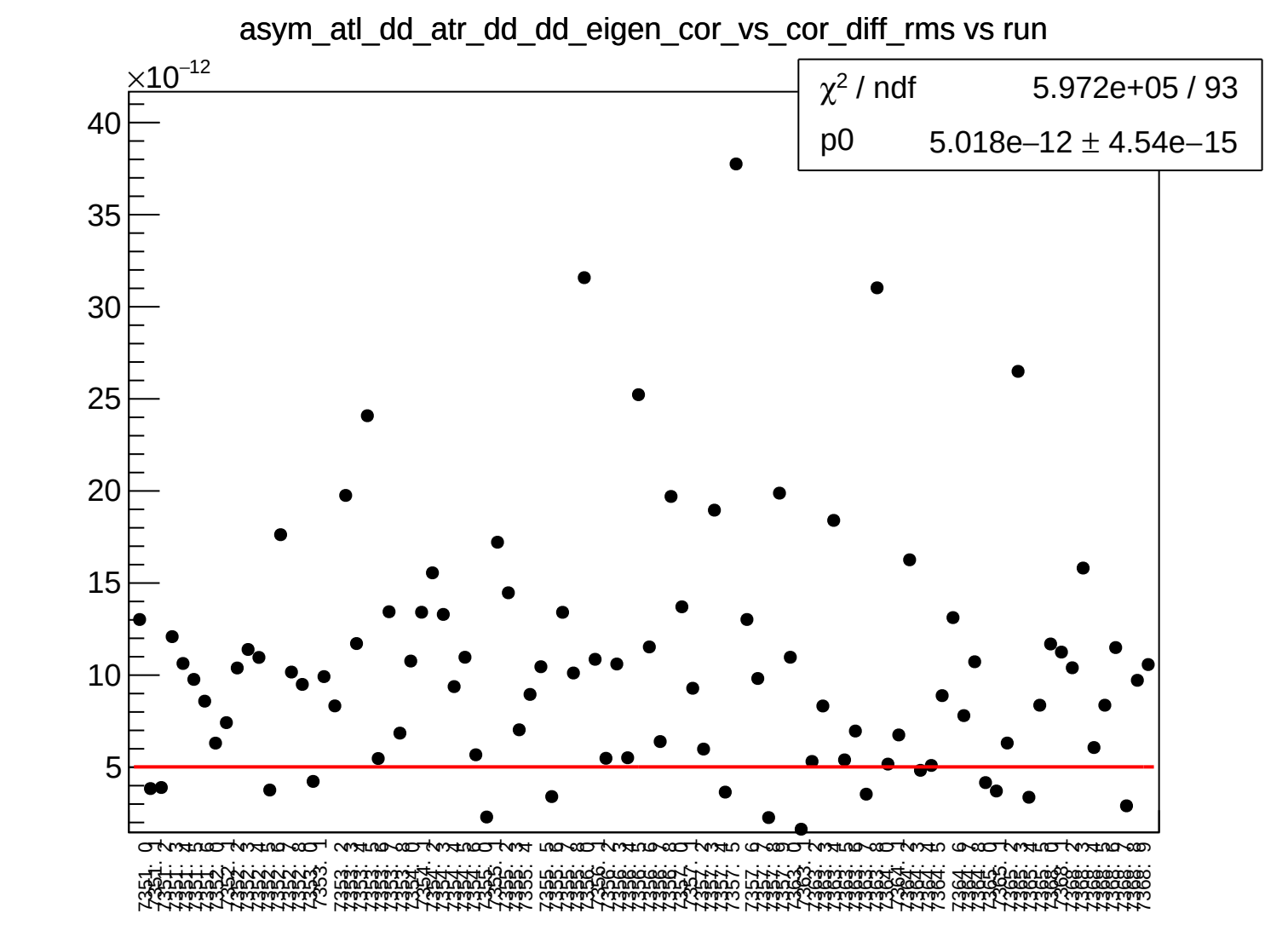

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.987e+04 / 93
p0 350.8 ± 0.263
600
550
500
450
400
350
300

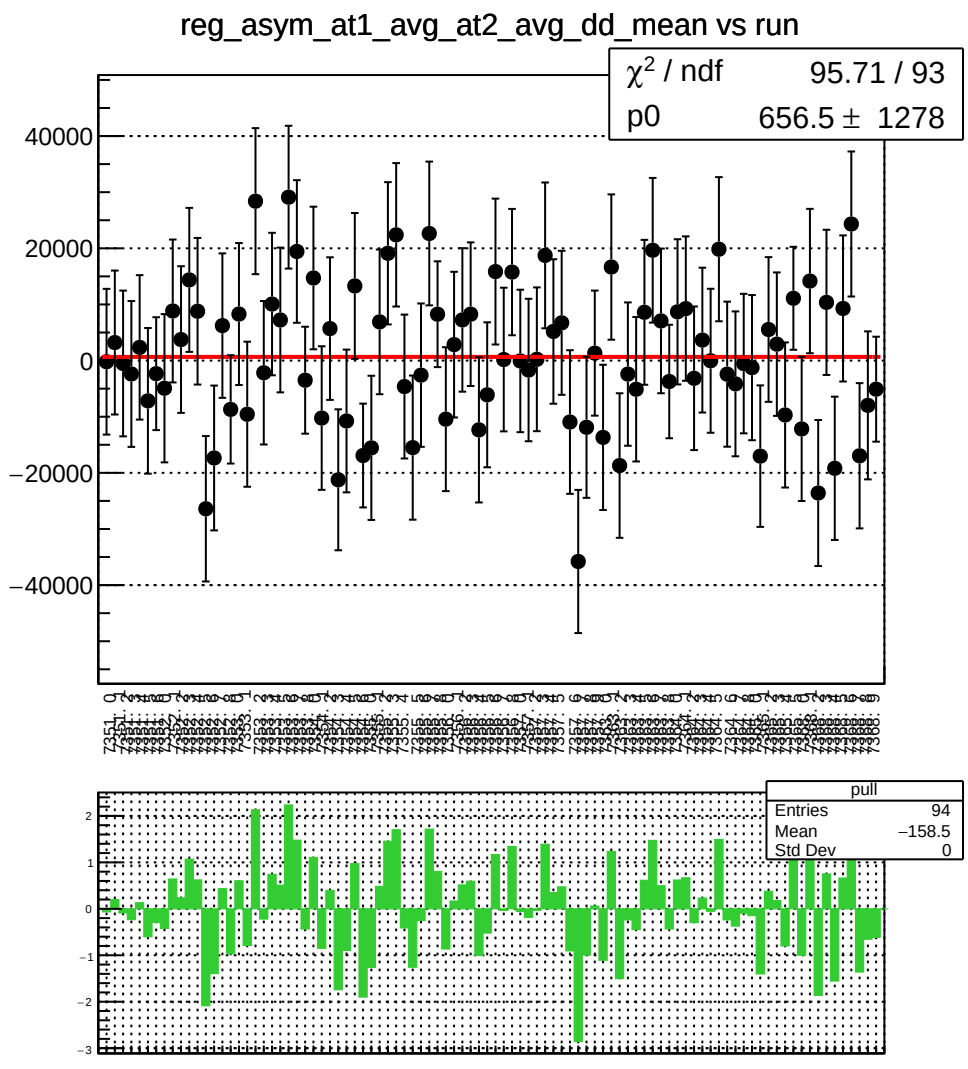

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.42 / 93
p0 −0.3392 ± 0.3719
pull
Entries 94
Mean −38.11
Std Dev 0
pull1D
Entries 94
Mean −0.02796
Std Dev 0.9473

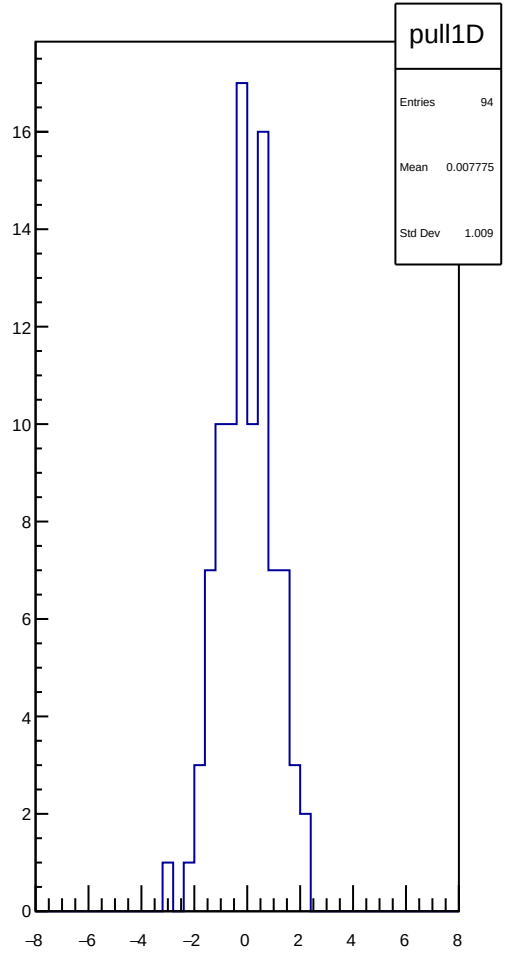

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.987e+04 / 93
p0 350.8 ± 0.263
600
550
500
450
400
350
300

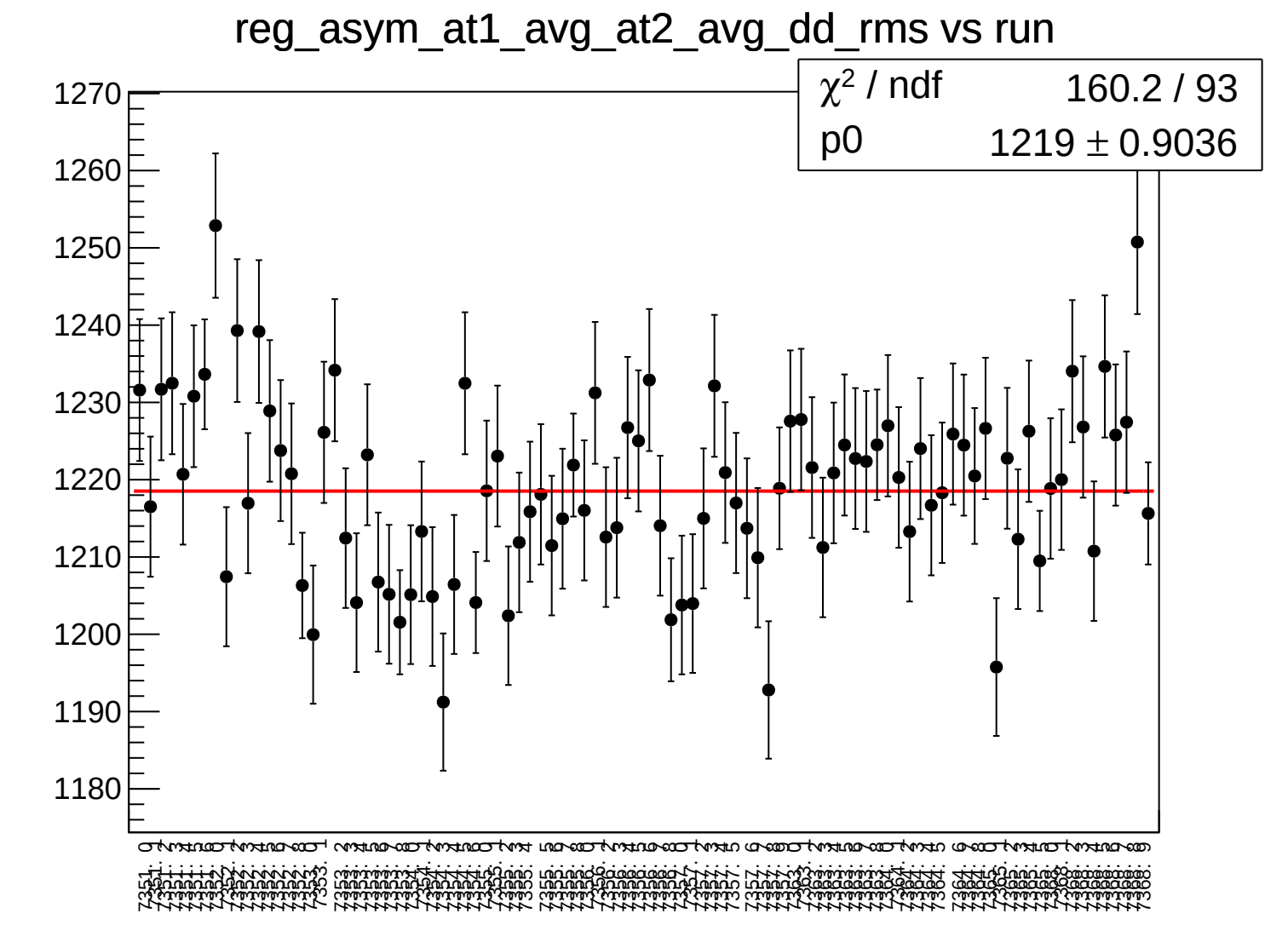

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 139 / 93
p0 1.22e−14 ± 6.421e−15
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 94
Mean 65.53
Std Dev 0
3
2
1
0
−1
−2
−3

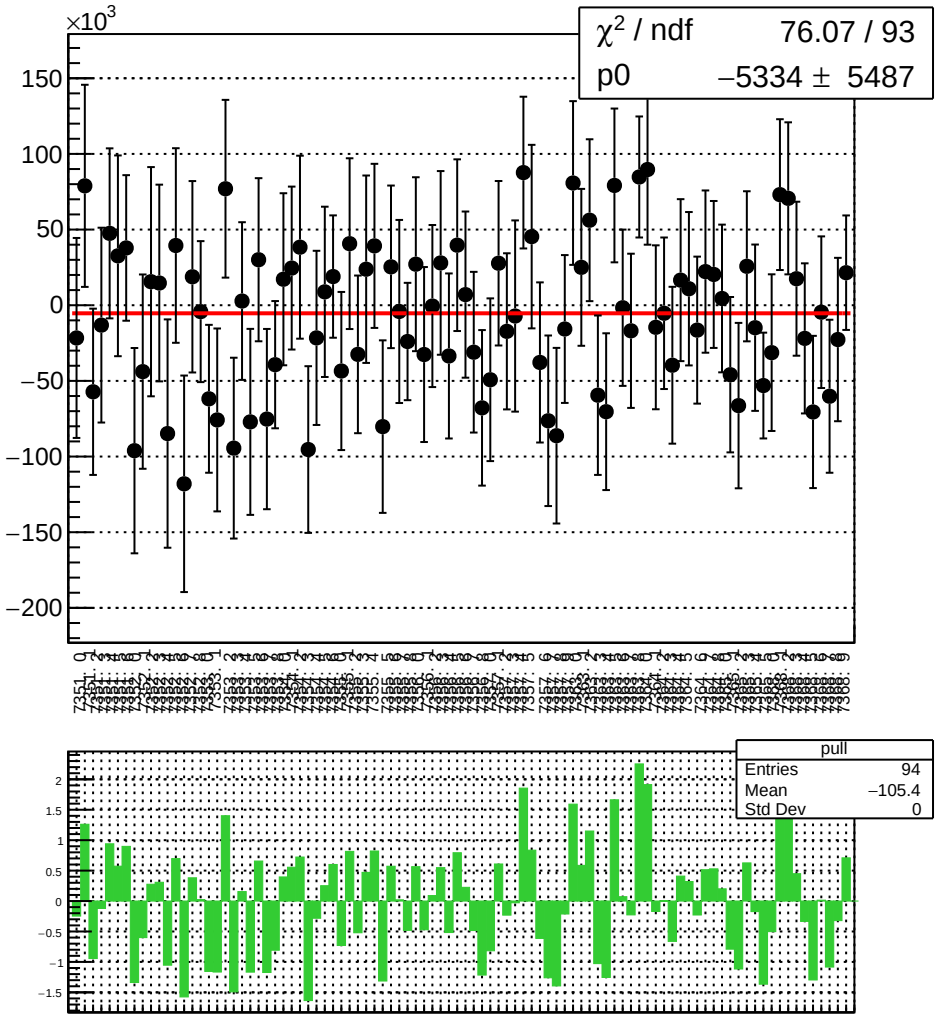

pull1D
Entries 94
Mean −0.07698
Std Dev 1.214
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

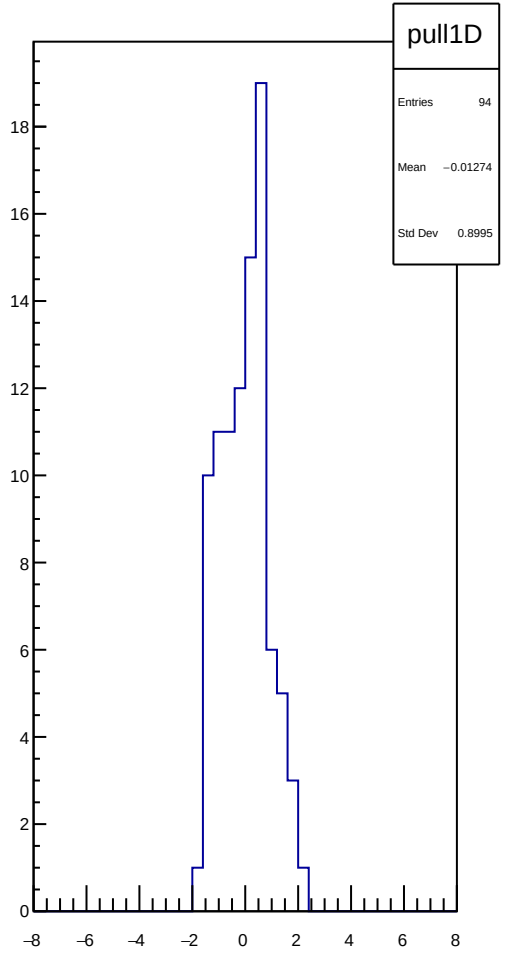

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
40
35
30
25
20
15
10
5
χ² / ndf 5.972e+05 / 93
p0 5.018e−12 ± 4.54e−15

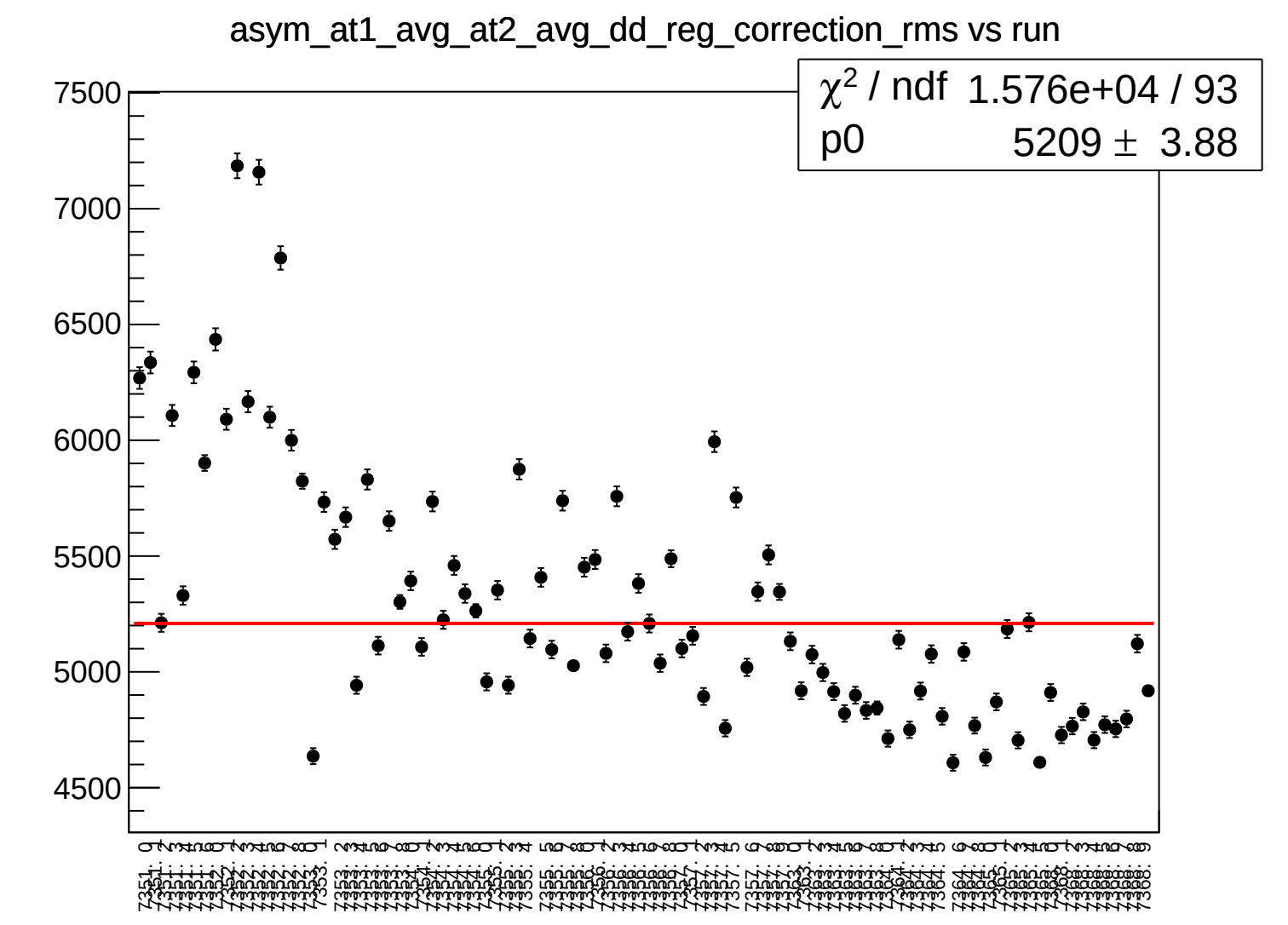

reg_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 95.71 / 93
p0 656.5 ± 1278
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −158.5
Std Dev 0
2
1
0
−1
−2
−3

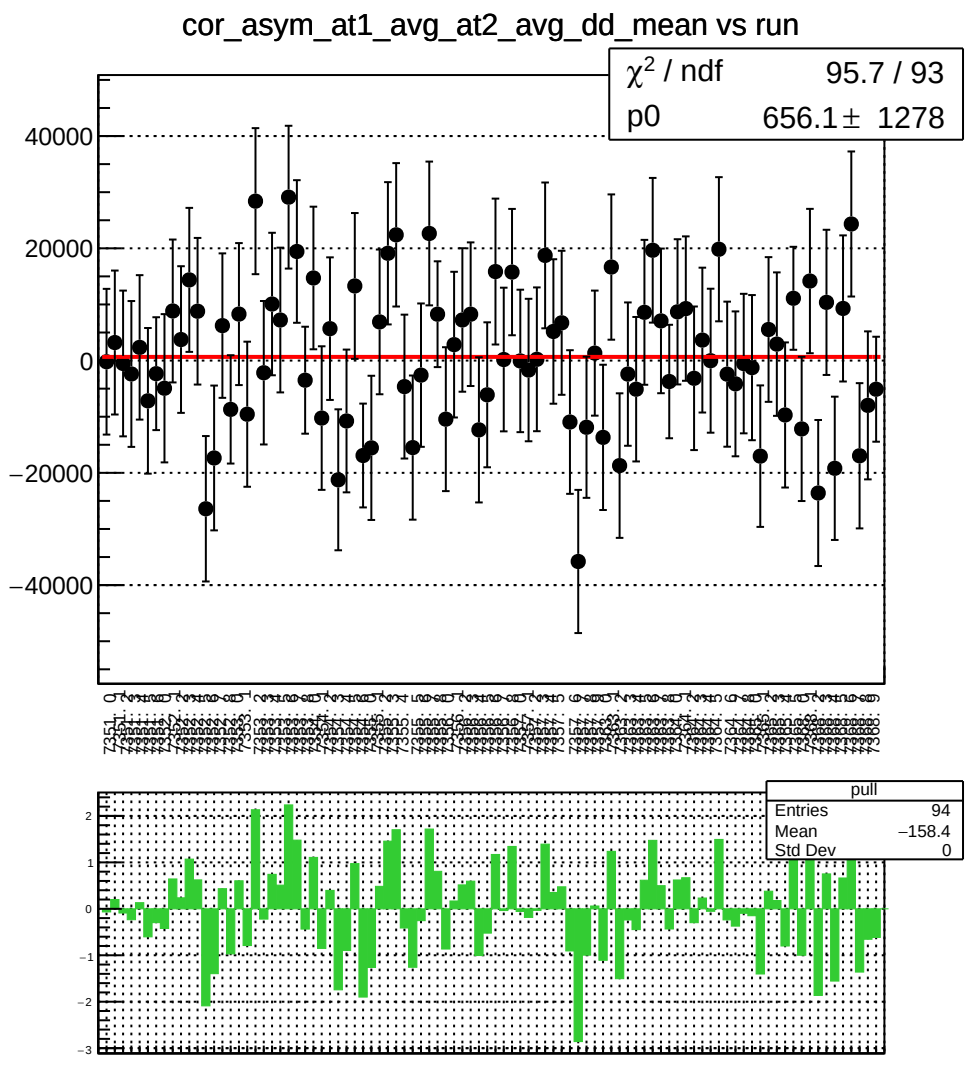

pull1D
Entries 94
Mean 0.007775
Std Dev 1.009
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

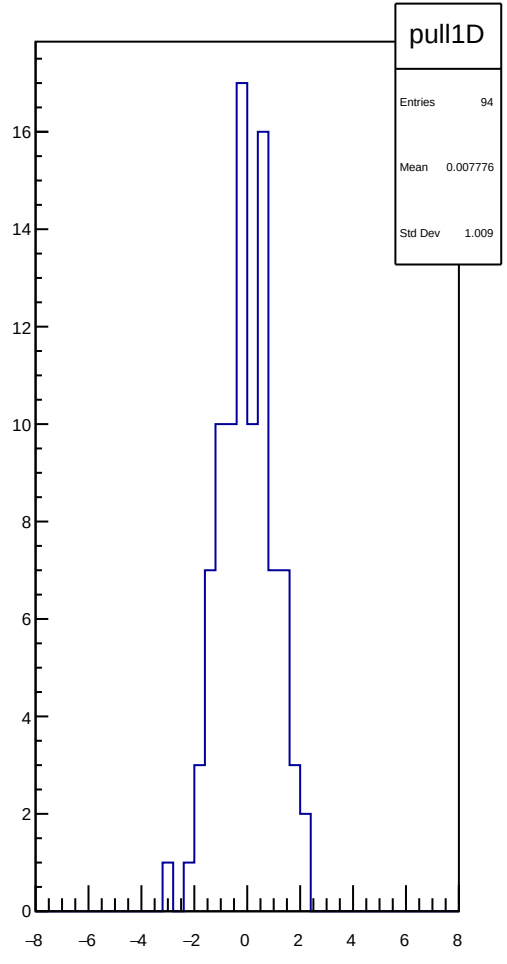

reg_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 160.2 / 93
p0 1219 ± 0.9036
1270
1260
1250
1240
1230
1220
1210
1200
1190
1180

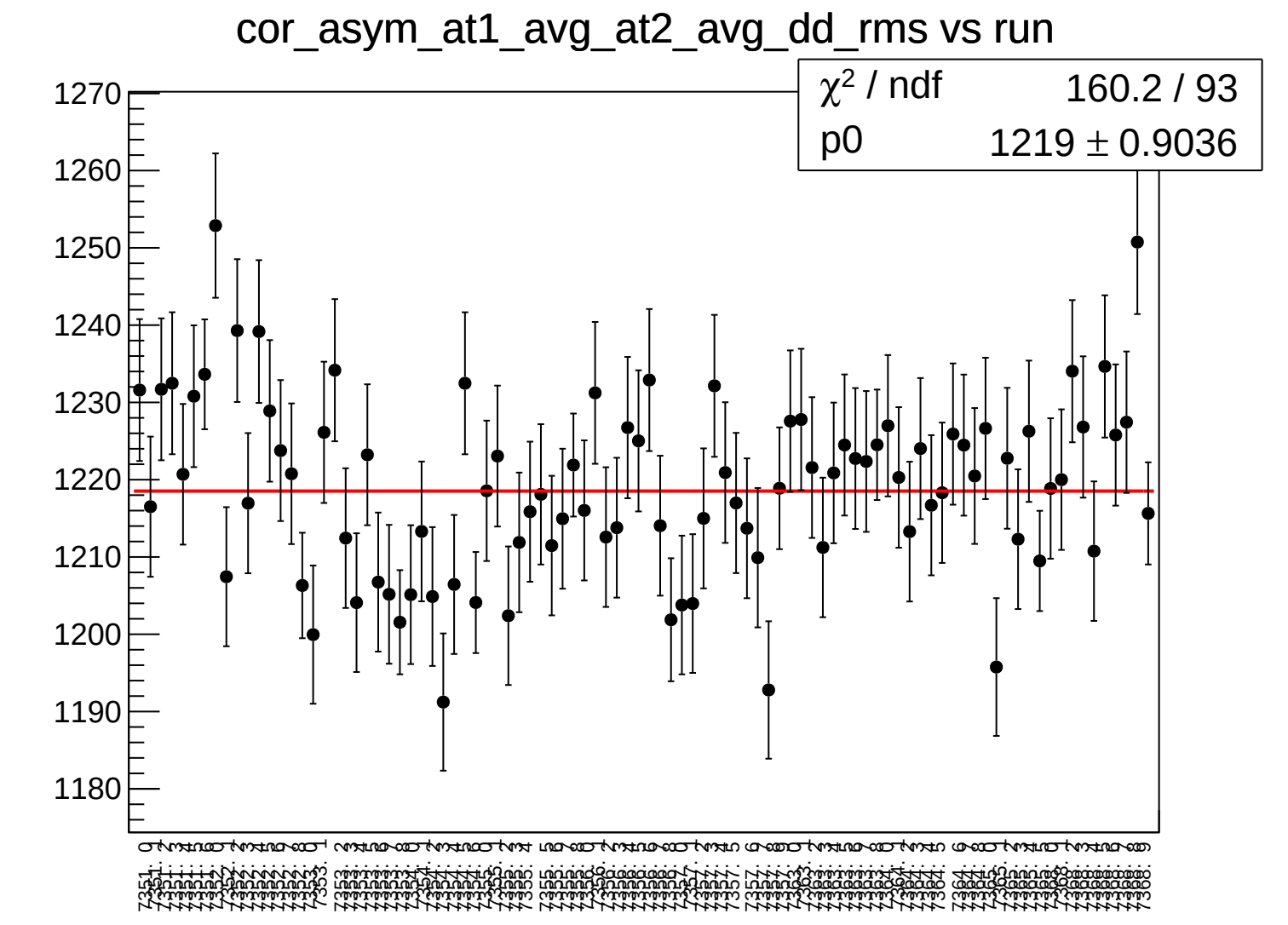

asym_at1_avg_at2_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 76.07 / 93
p0 −5334 ± 5487
150
100
50
0
−50
−100
−150
−200
pull
Entries 94
Mean −105.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

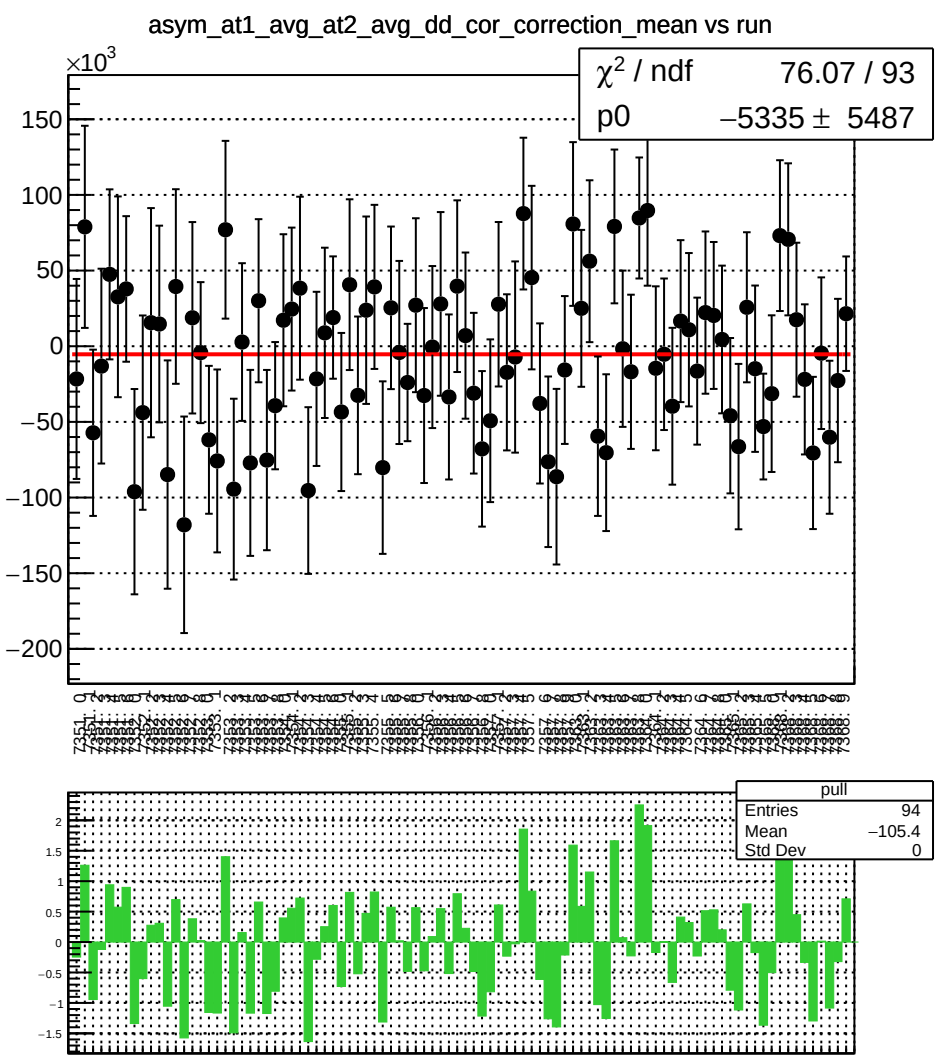

pull1D
Entries 94
Mean −0.01274
Std Dev 0.8995
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

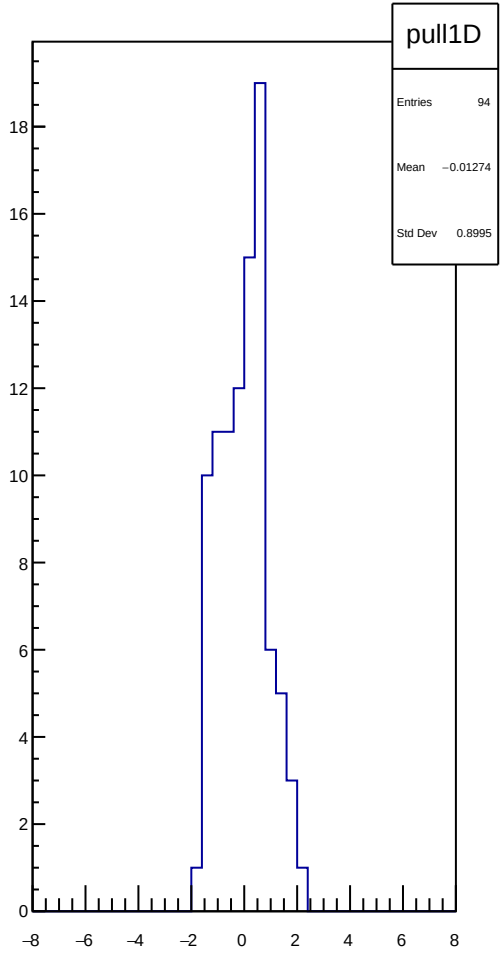

asym_at1_avg_at2_avg_dd_reg_correction_rms vs run
χ^2 / ndf 1.576e+04 / 93
p0 5209 ± 3.88
7500
7000
6500
6000
5500
5000
4500

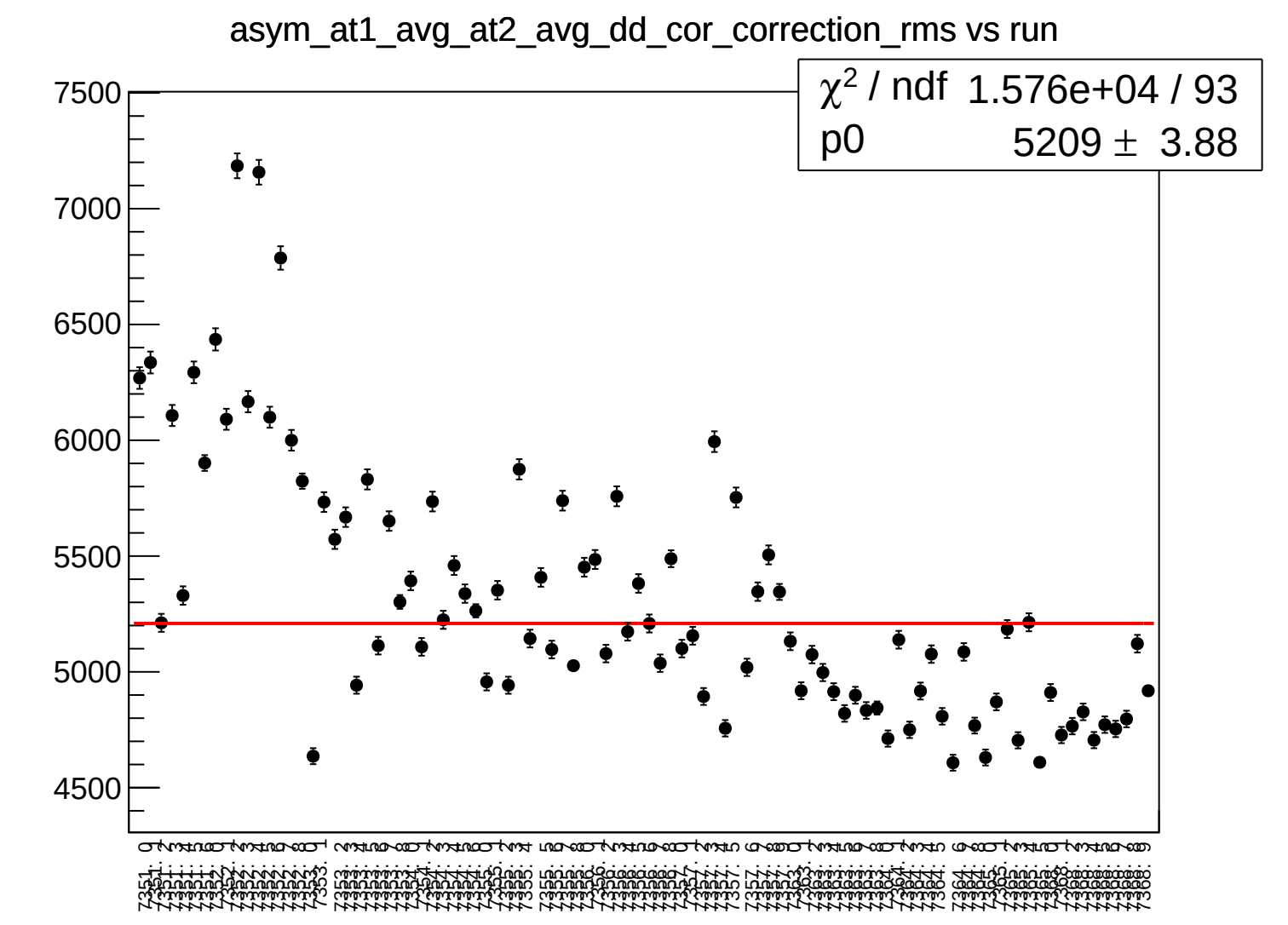

cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 95.7 / 93
p0 656.1 ± 1278
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −158.4
Std Dev 0
2
1
0
−1
−2
−3

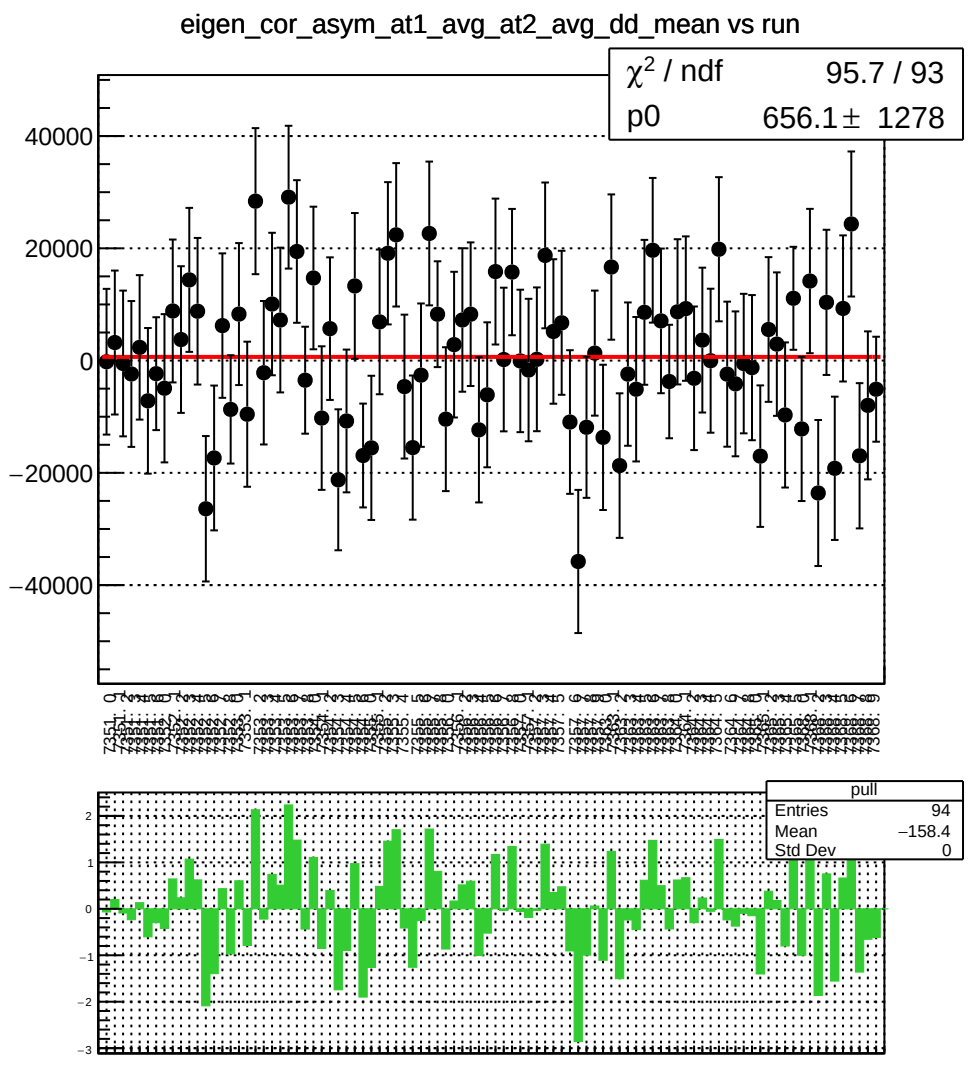

pull1D
Entries 94
Mean 0.007776
Std Dev 1.009
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

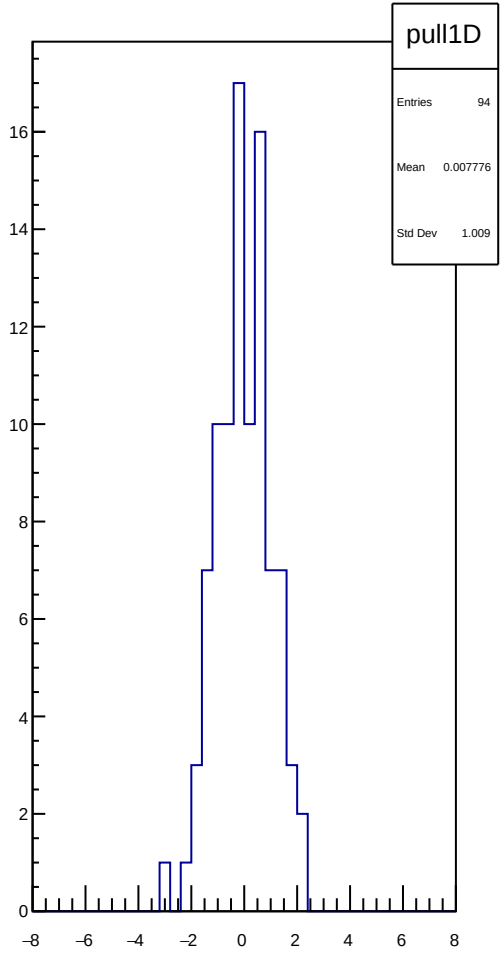

cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 160.2 / 93
p0 1219 ± 0.9036
1270
1260
1250
1240
1230
1220
1210
1200
1190
1180

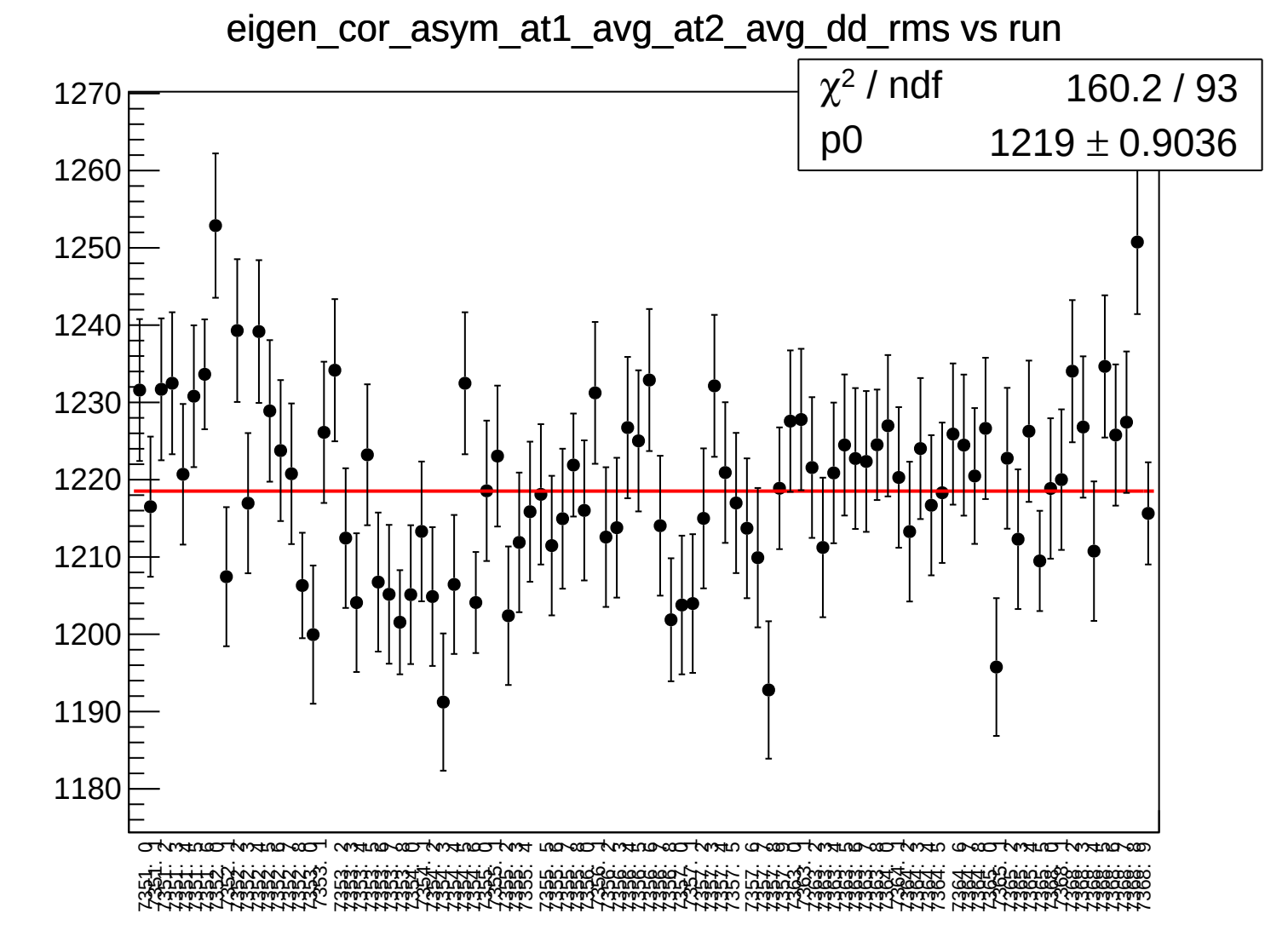

asym_at1_avg_at2_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 76.07 / 93
p0 −5335 ± 5487
150
100
50
0
−50
−100
−150
−200
pull
Entries 94
Mean −105.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

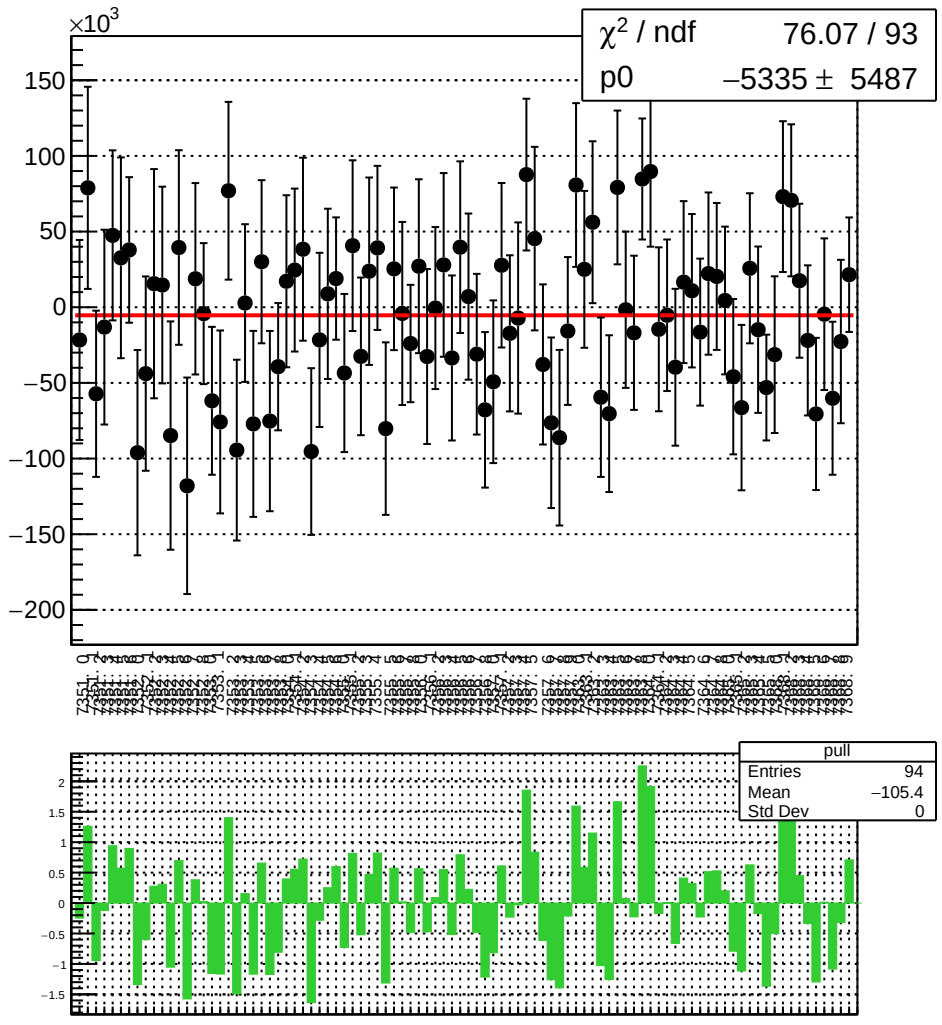

pull1D
Entries 94
Mean −0.01274
Std Dev 0.8995
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

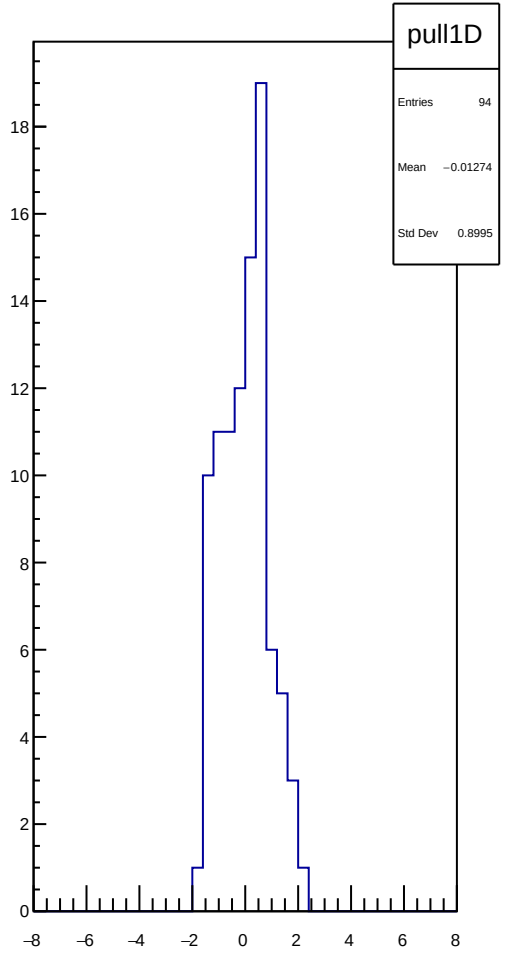

asym_at1_avg_at2_avg_dd_cor_correction_rms vs run
χ^2 / ndf 1.576e+04 / 93
p0 5209 ± 3.88
7500
7000
6500
6000
5500
5000
4500

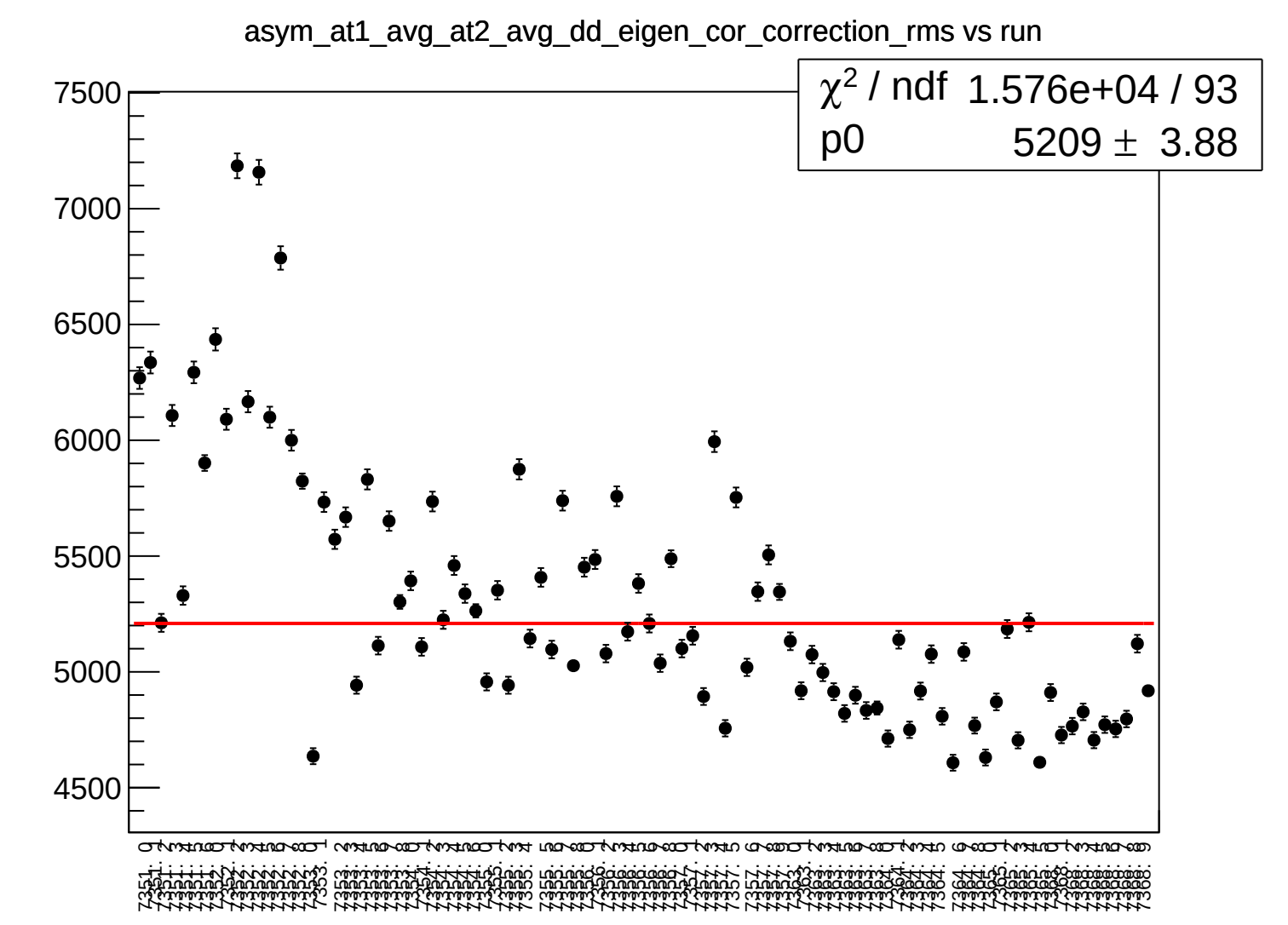

eigen_cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 95.7 / 93
p0 656.1 ± 1278
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −158.4
Std Dev 0
2
1
0
−1
−2
−3

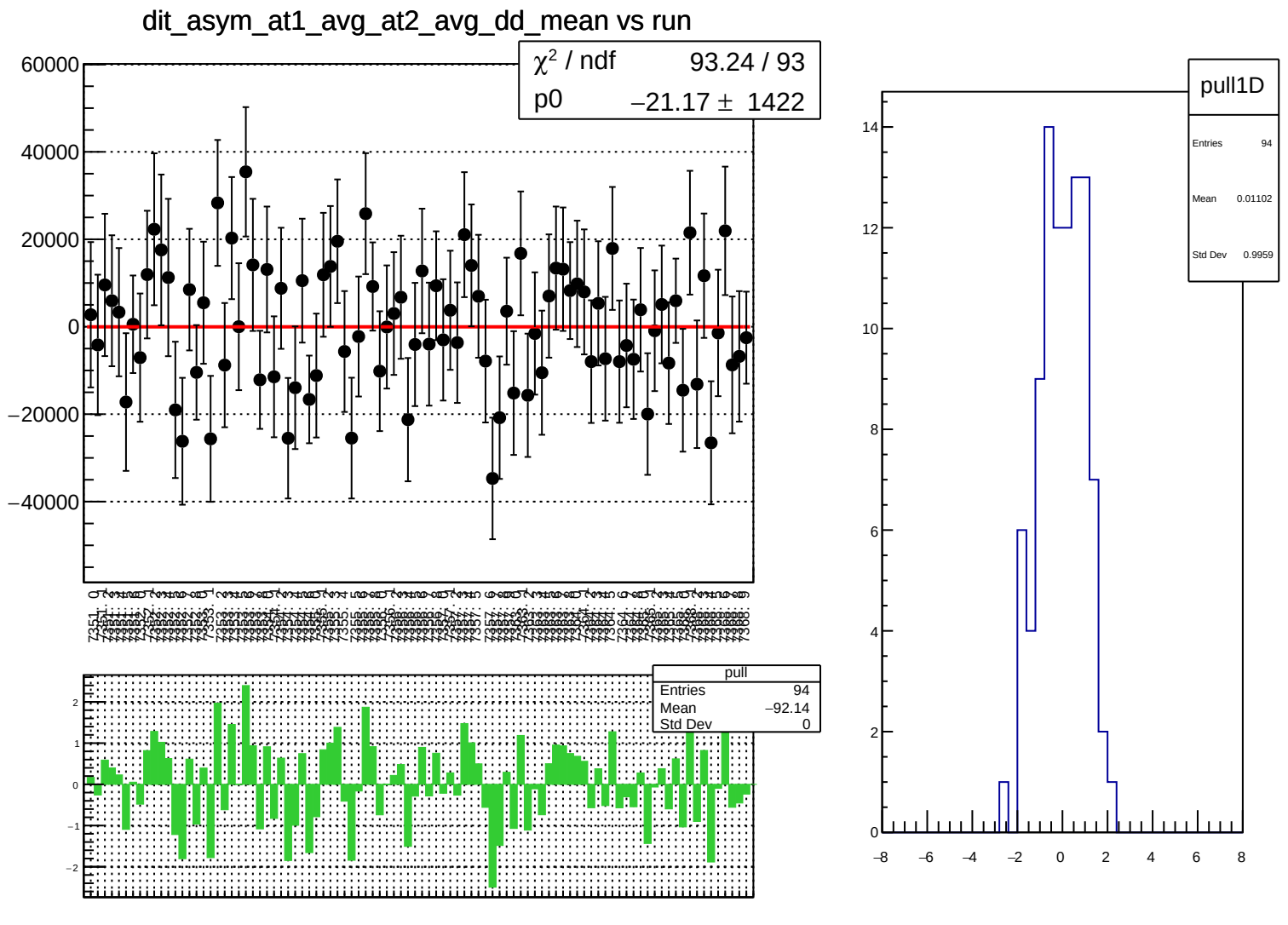

pull1D
Entries 94
Mean 0.007776
Std Dev 1.009
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

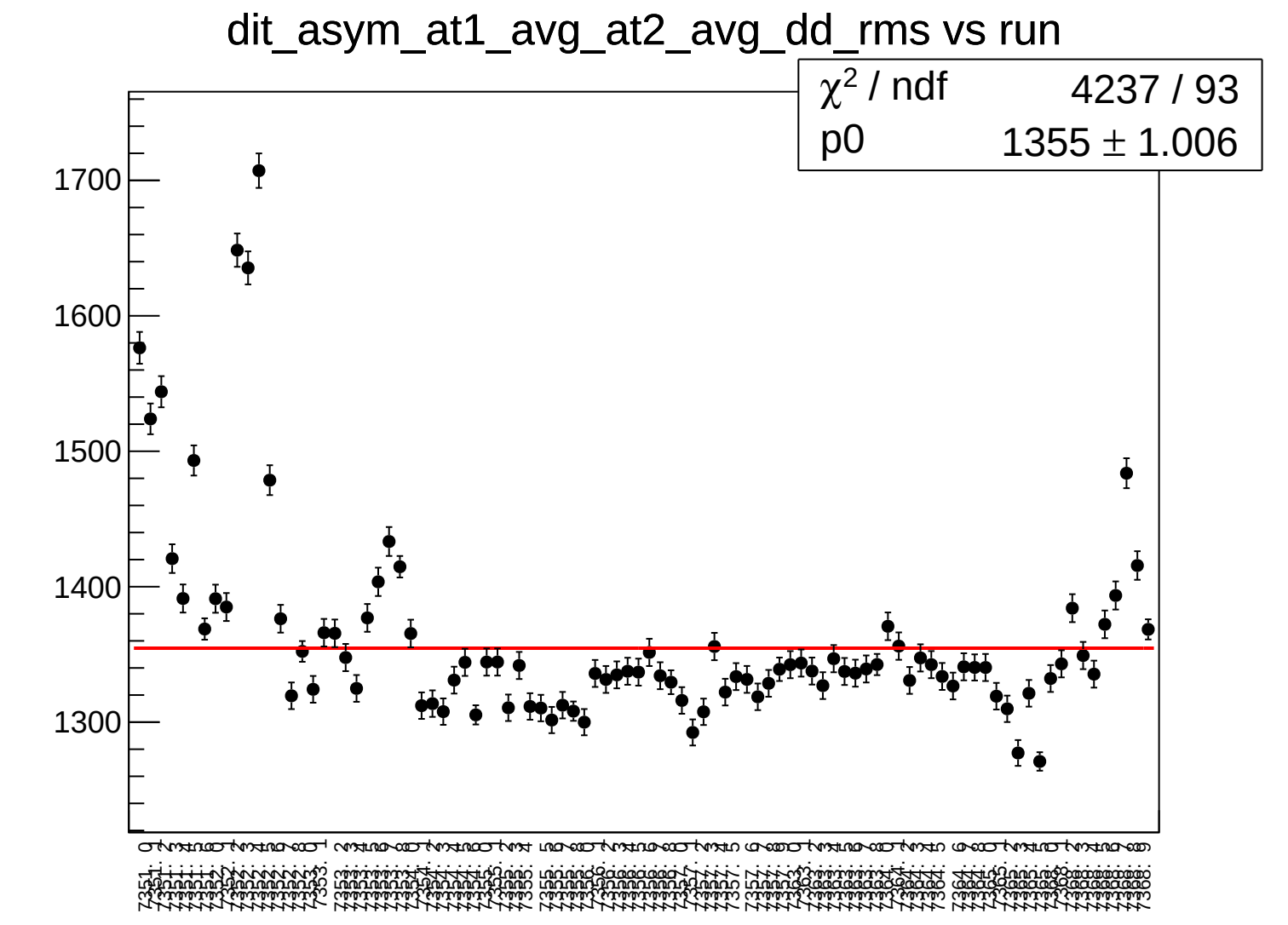

eigen_cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 160.2 / 93
p0 1219 ± 0.9036
1270
1260
1250
1240
1230
1220
1210
1200
1190
1180

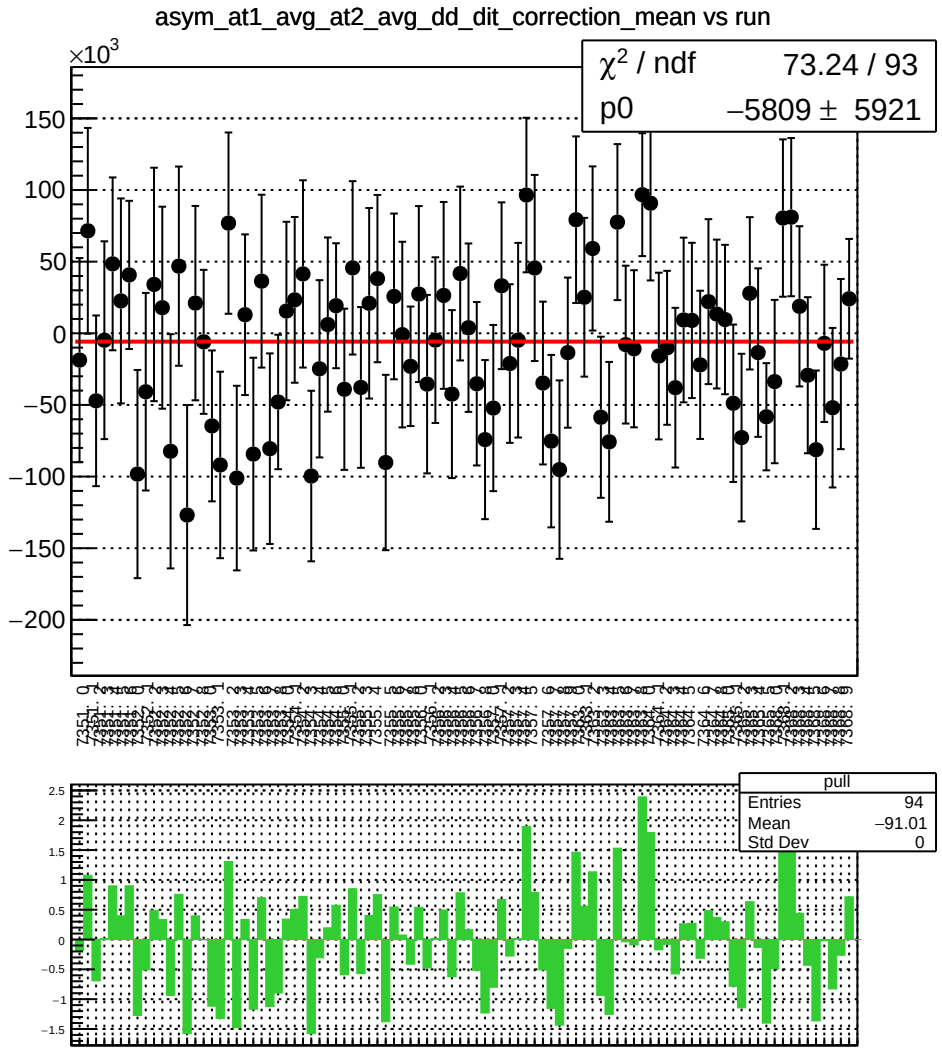

asym_at1_avg_at2_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 76.07 / 93
p0 −5335 ± 5487
150
100
50
0
−50
−100
−150
−200
pull
Entries 94
Mean −105.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

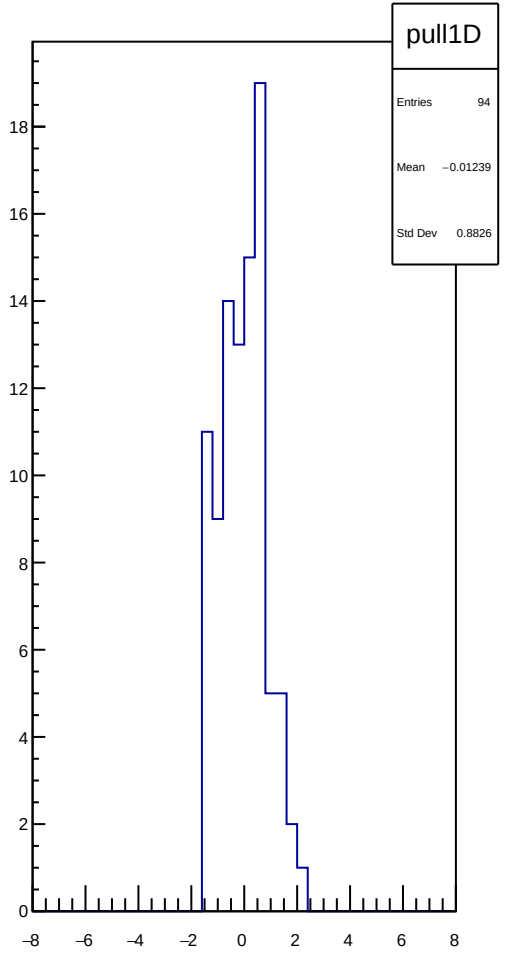

pull1D
Entries 94
Mean −0.01274
Std Dev 0.8995
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

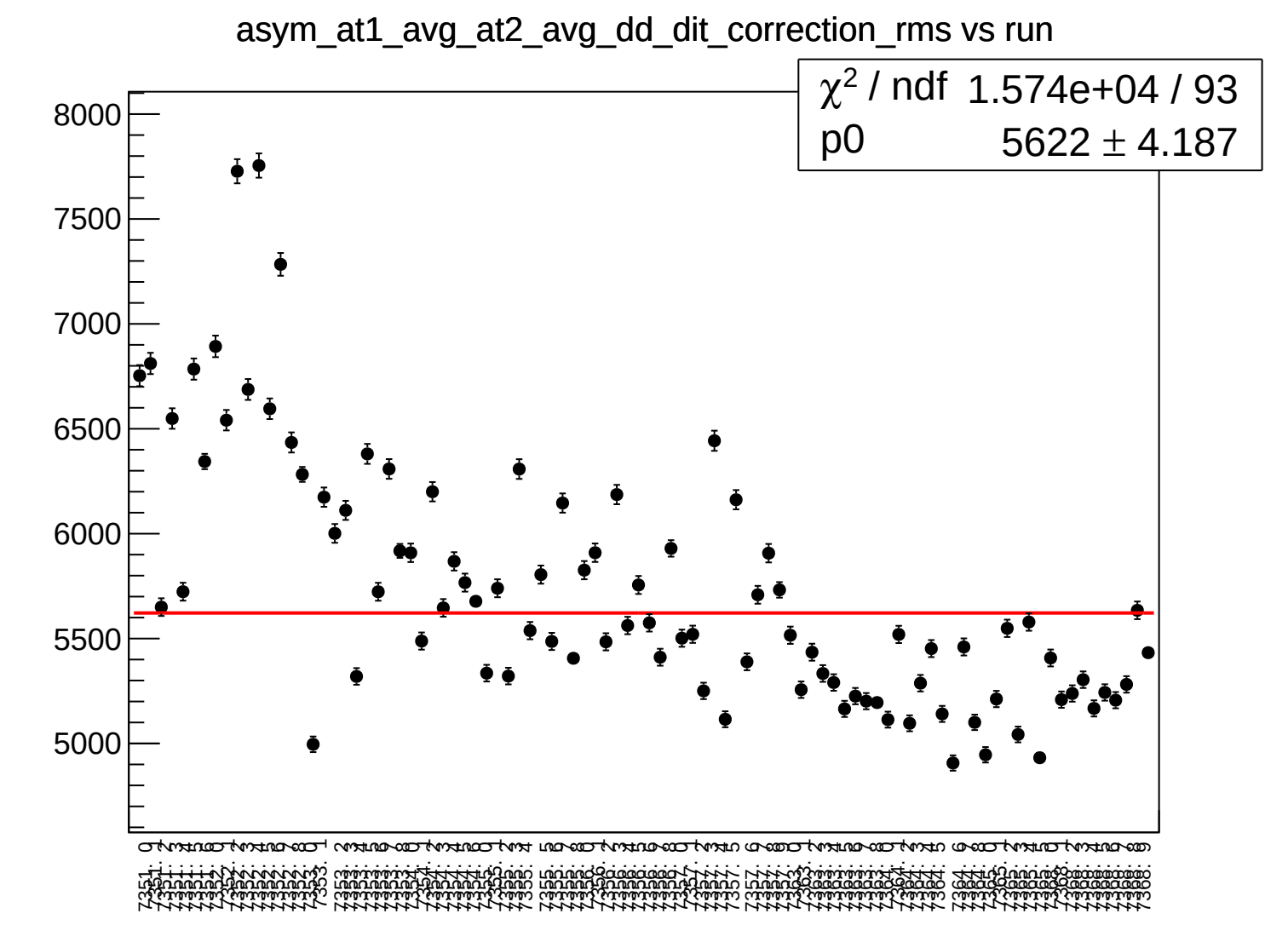

asym_at1_avg_at2_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.576e+04 / 93
p0 5209 ± 3.88
7500
7000
6500
6000
5500
5000
4500

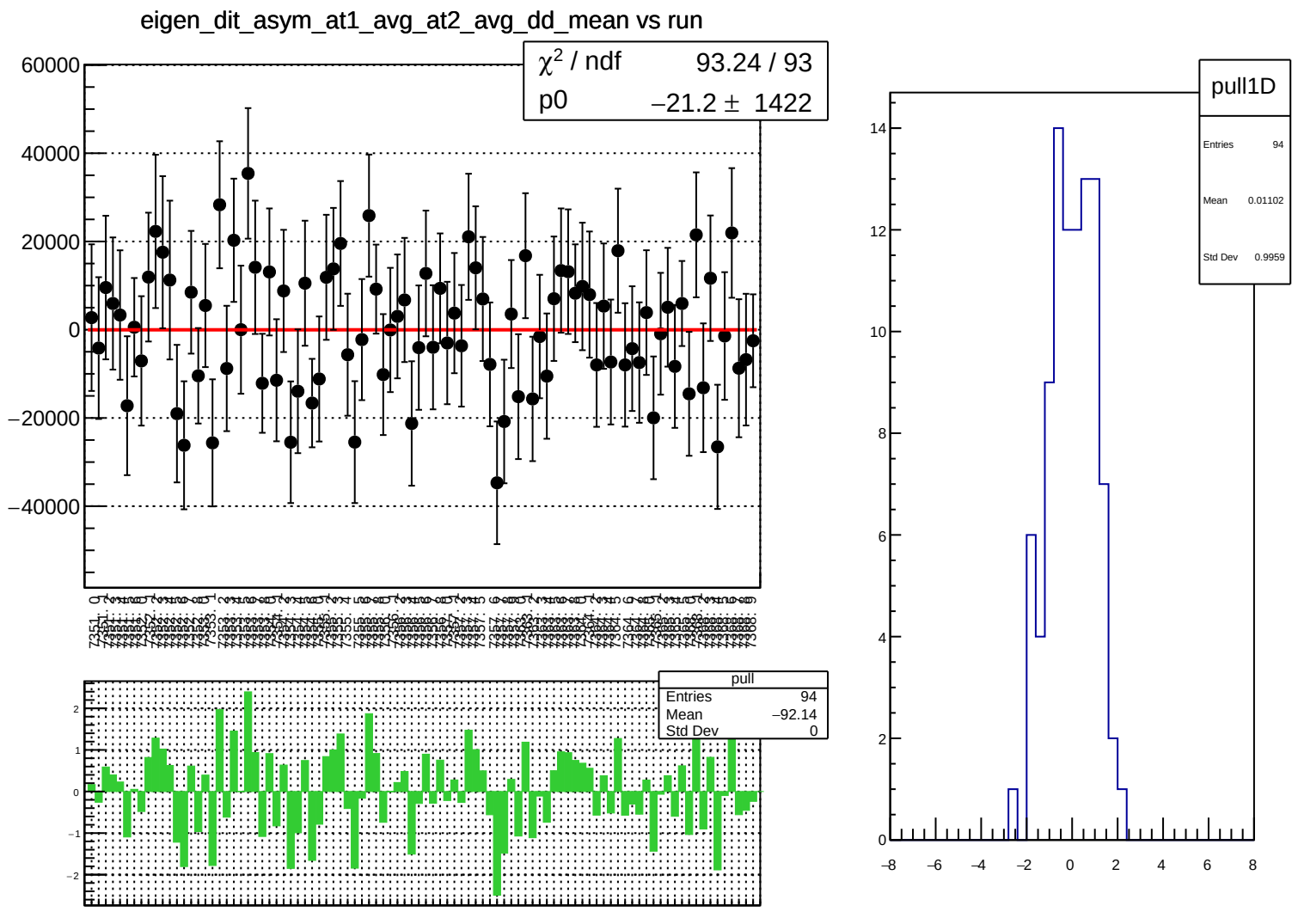

dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 93.24 / 93
p0 −21.17 ± 1422
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −92.14
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.01102
Std Dev 0.9959
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

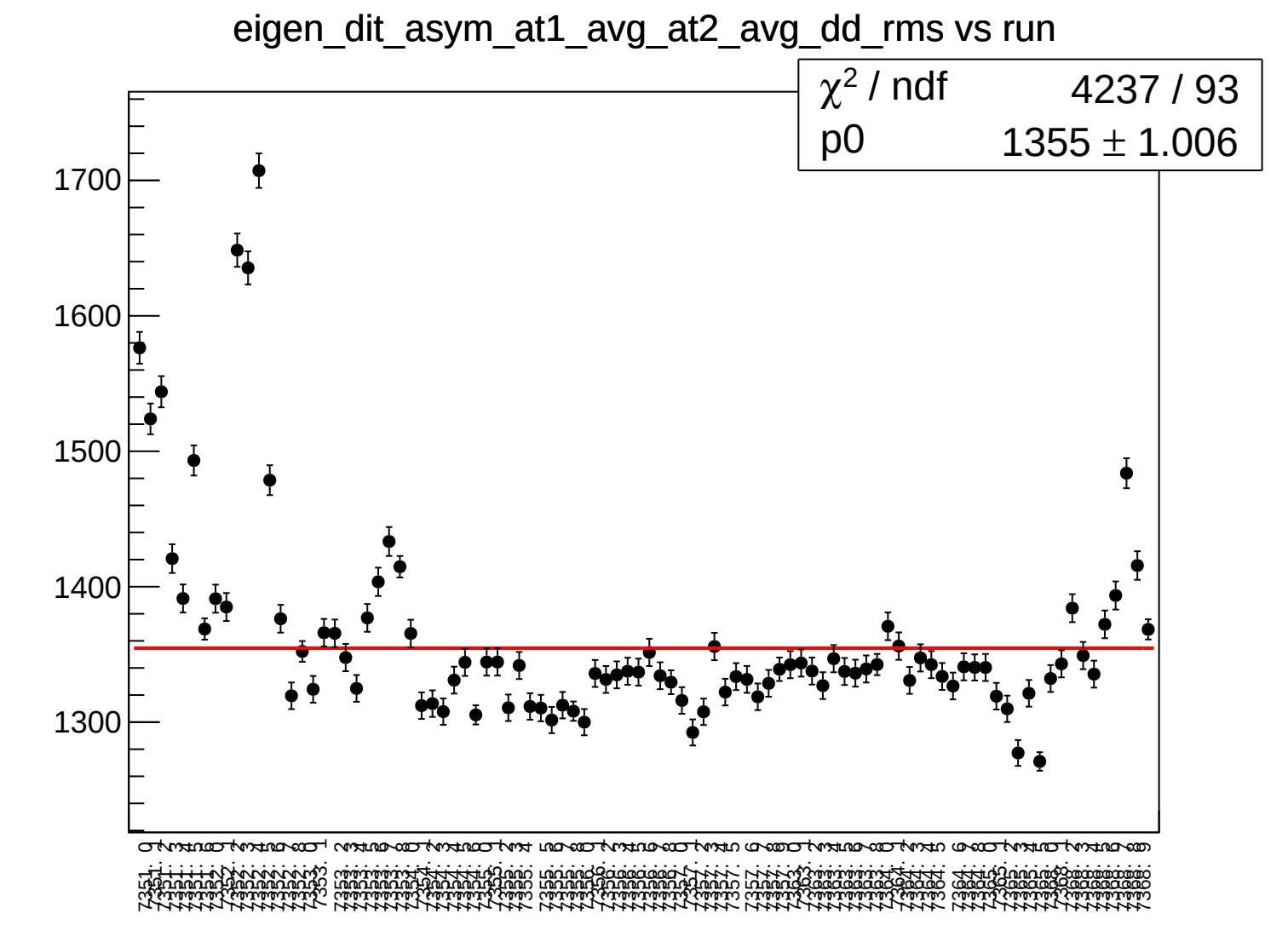

dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 4237 / 93
p0 1355 ± 1.006
1700
1600
1500
1400
1300

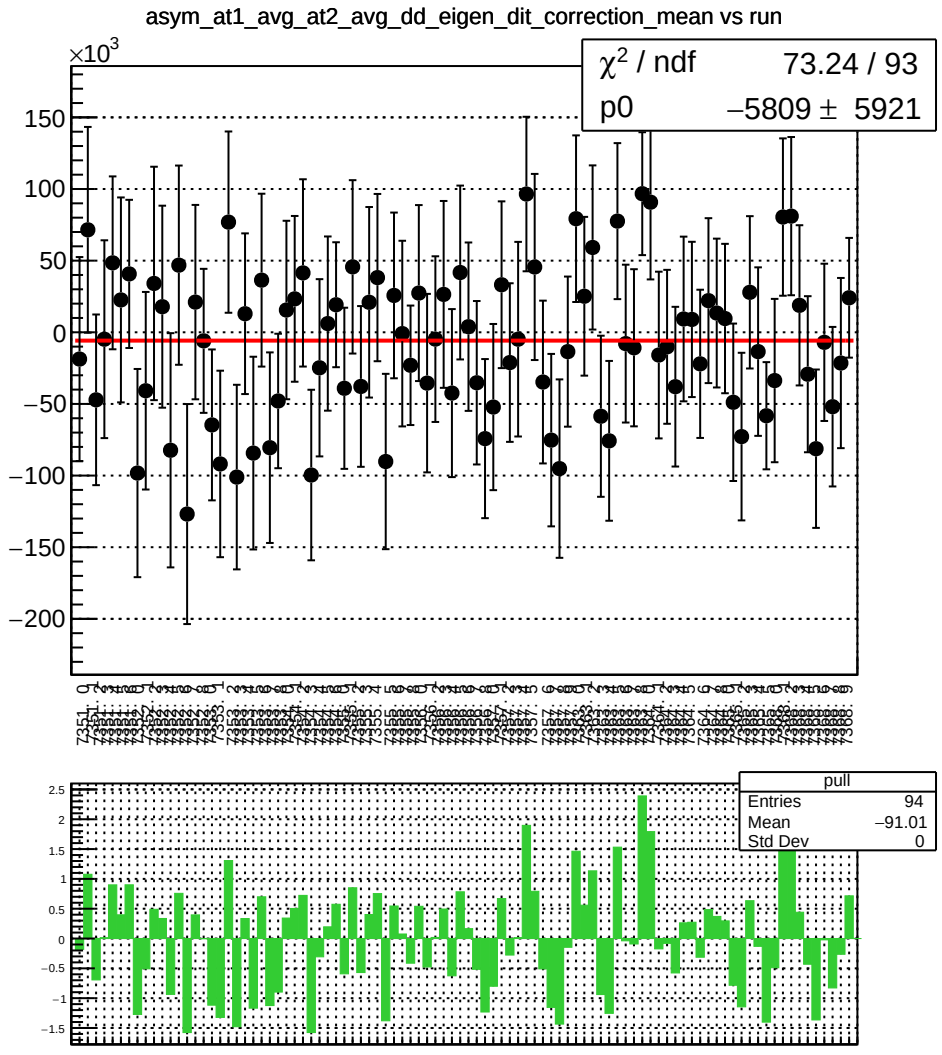

asym_at1_avg_at2_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 73.24 / 93
p0 −5809 ± 5921
150
100
50
0
−50
−100
−150
−200
pull
Entries 94
Mean −91.01
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

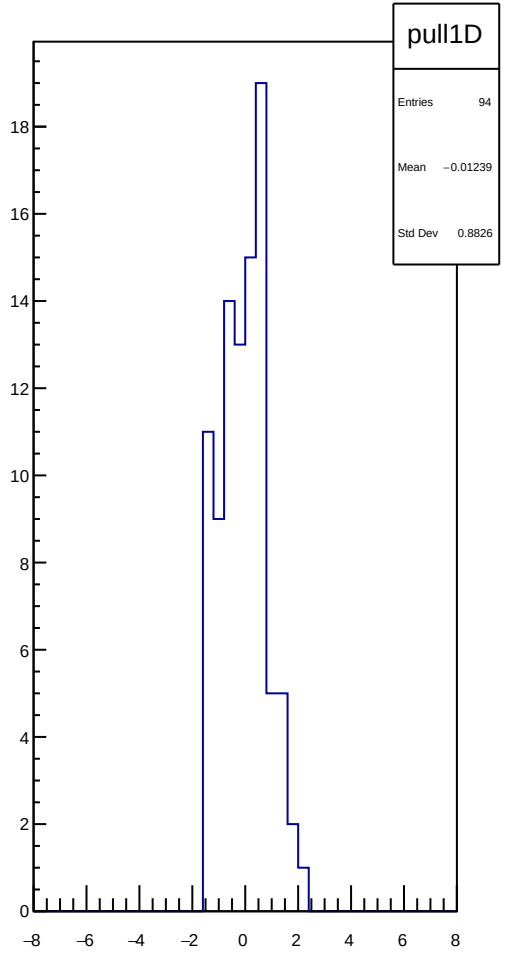

pull1D
Entries 94
Mean −0.01239
Std Dev 0.8826
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

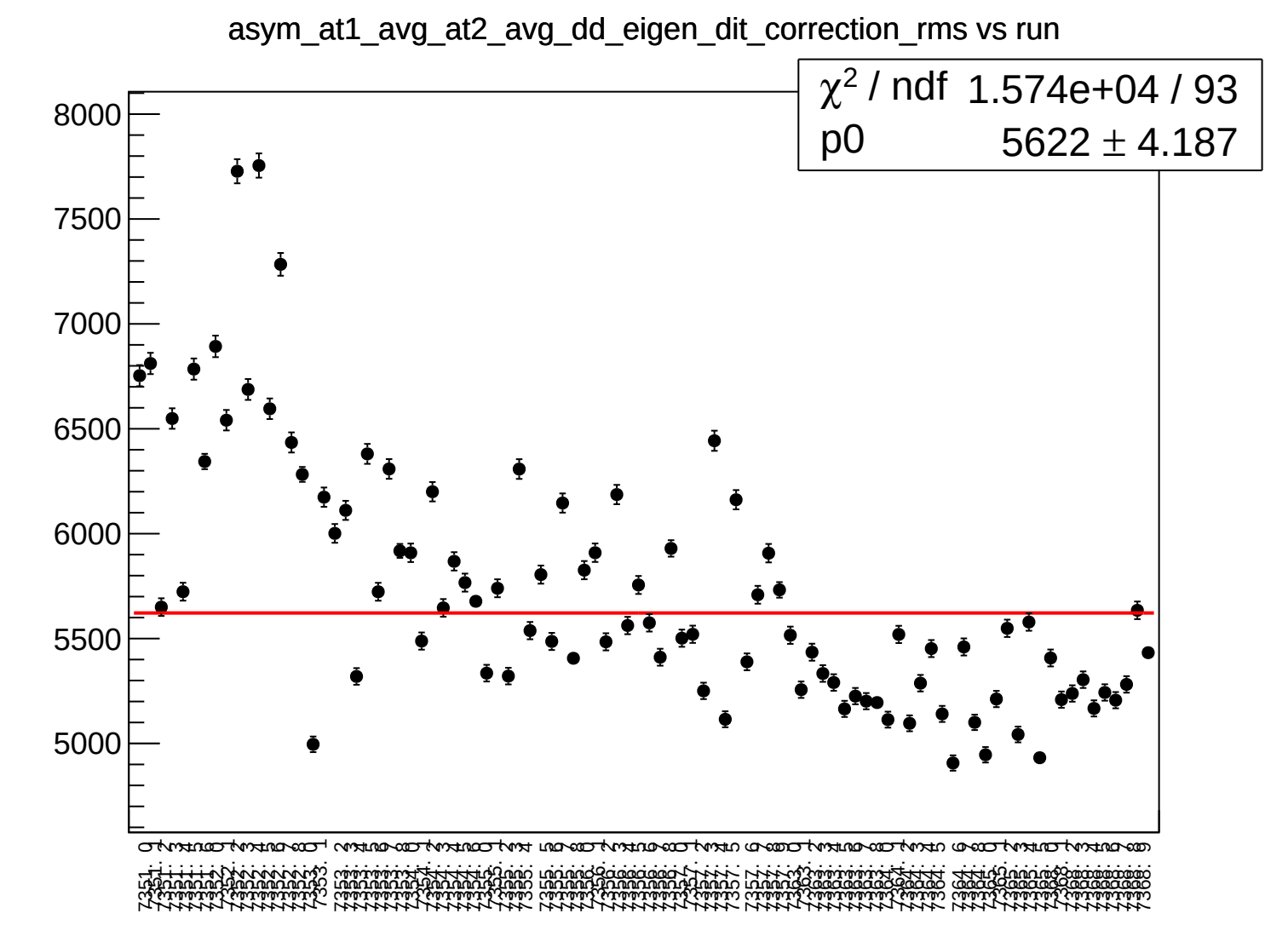

asym_at1_avg_at2_avg_dd_dit_correction_rms vs run
χ² / ndf 1.574e+04 / 93
p0 5622 ± 4.187
8000
7500
7000
6500
6000
5500
5000

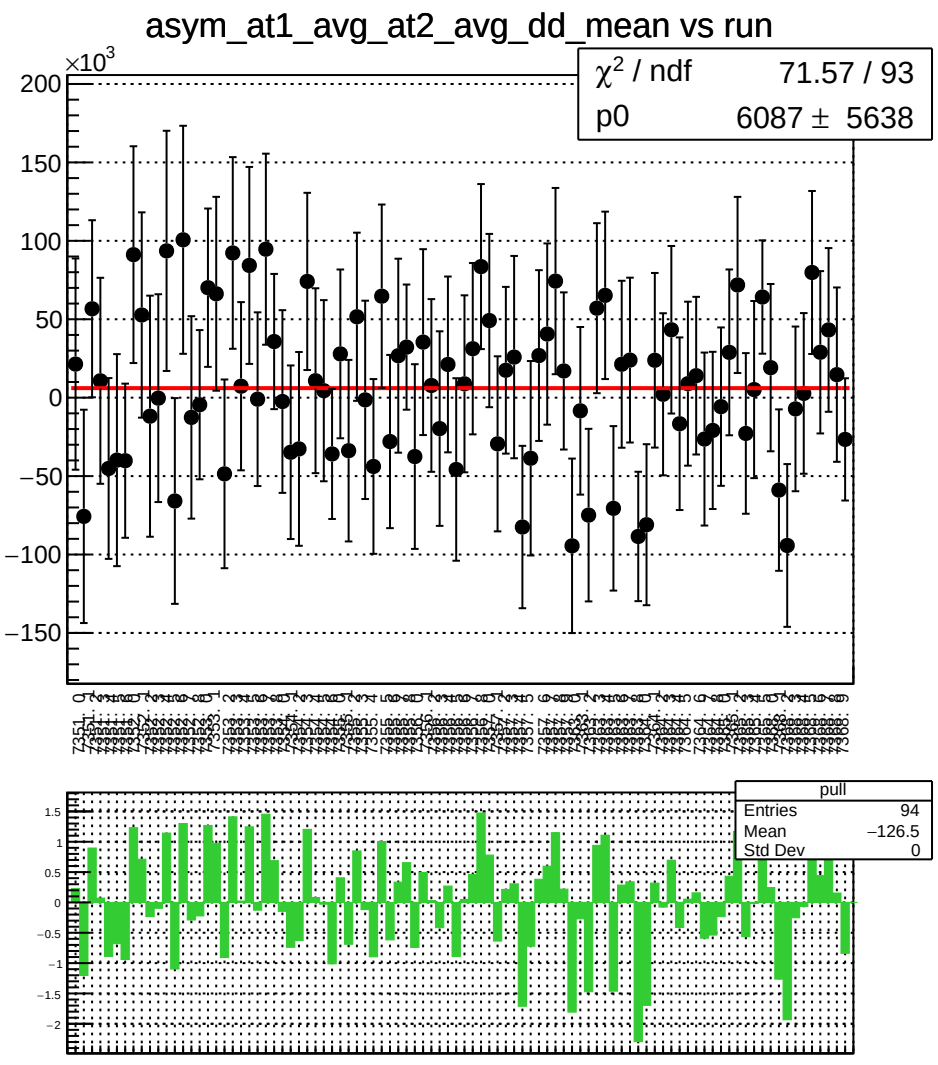

eigen_dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 93.24 / 93
p0 −21.2 ± 1422
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −92.14
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.01102
Std Dev 0.9959
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

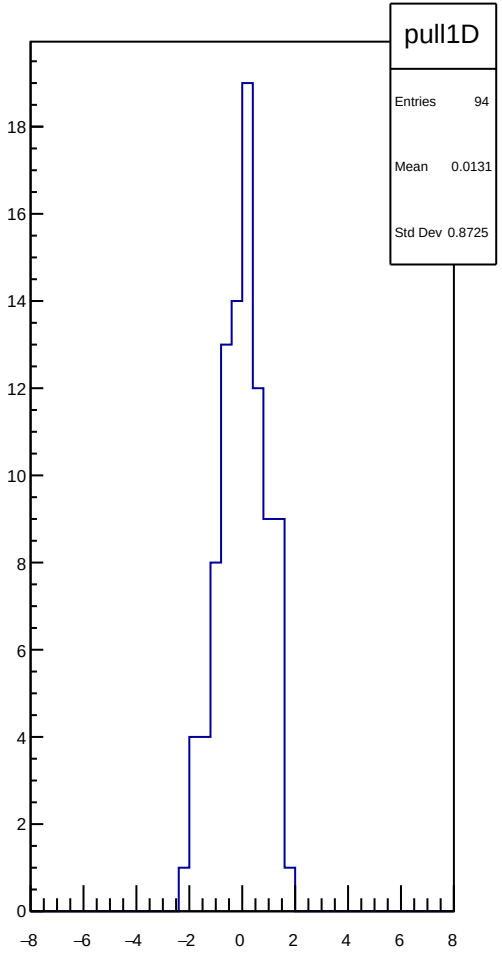

eigen_dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 4237 / 93
p0 1355 ± 1.006
1700
1600
1500
1400
1300

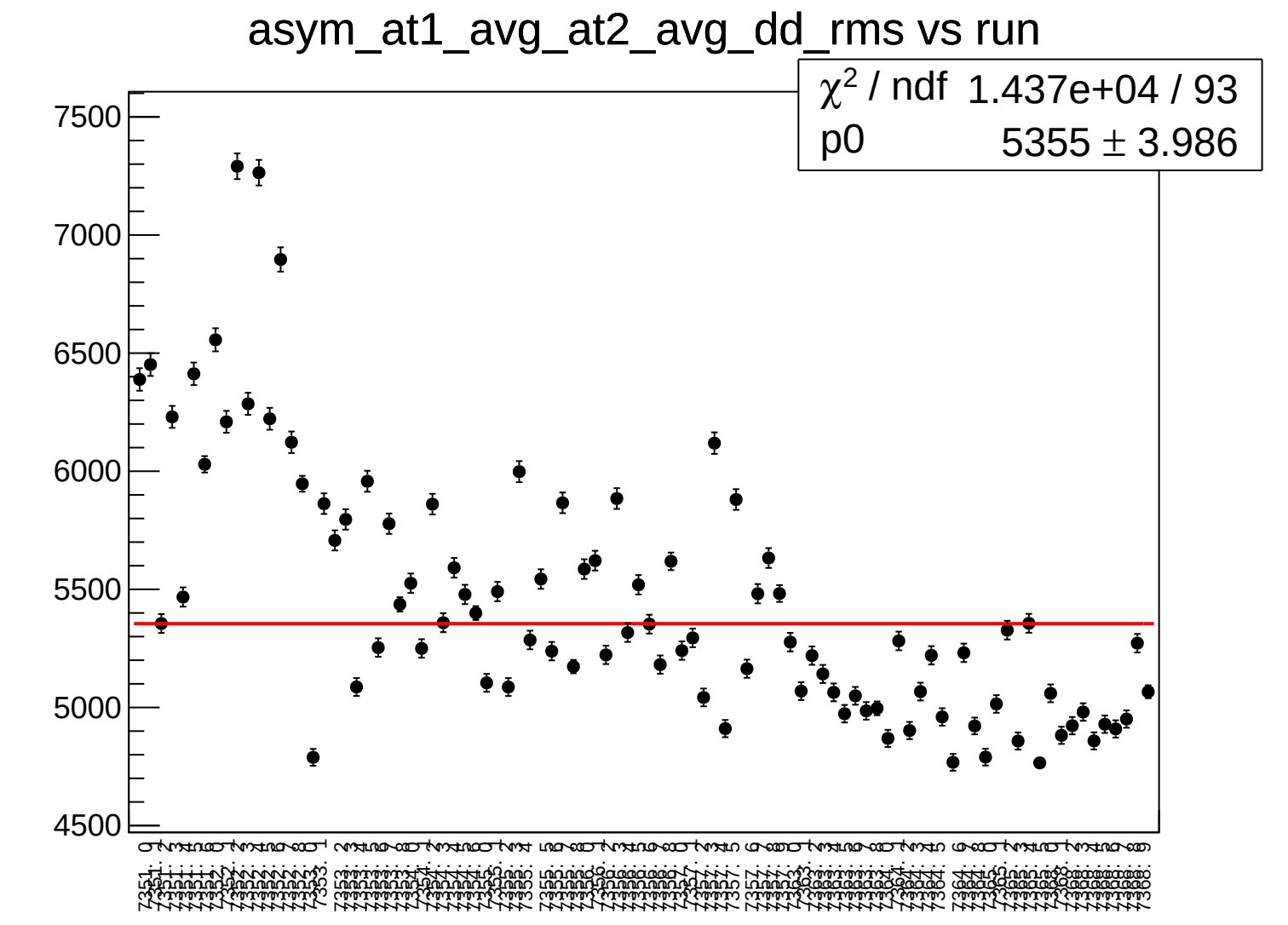

asym_at1_avg_at2_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 73.24 / 93
p0 −5809 ± 5921
150
100
50
0
−50
−100
−150
−200
pull
Entries 94
Mean −91.01
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

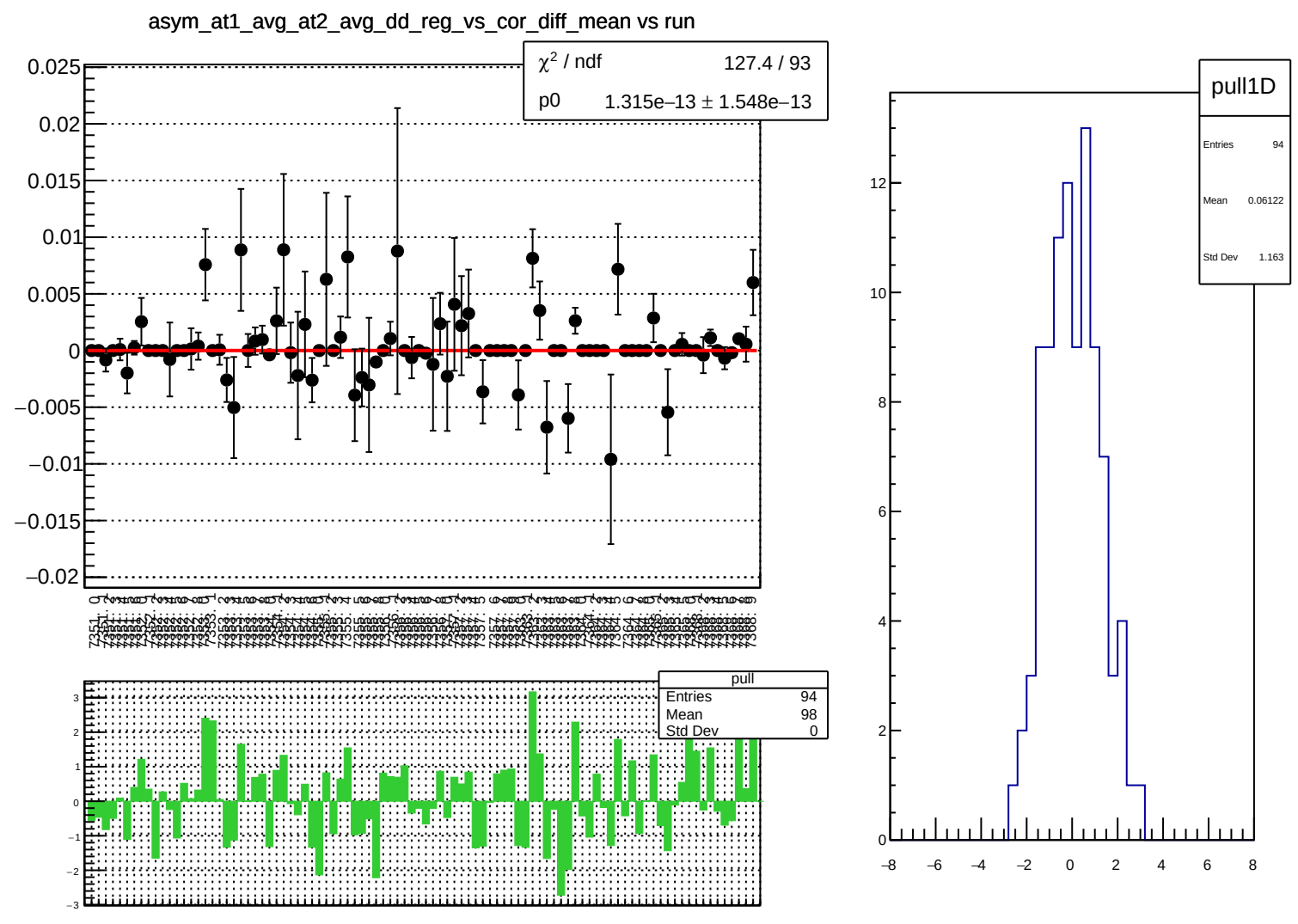

pull1D
Entries 94
Mean −0.01239
Std Dev 0.8826
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

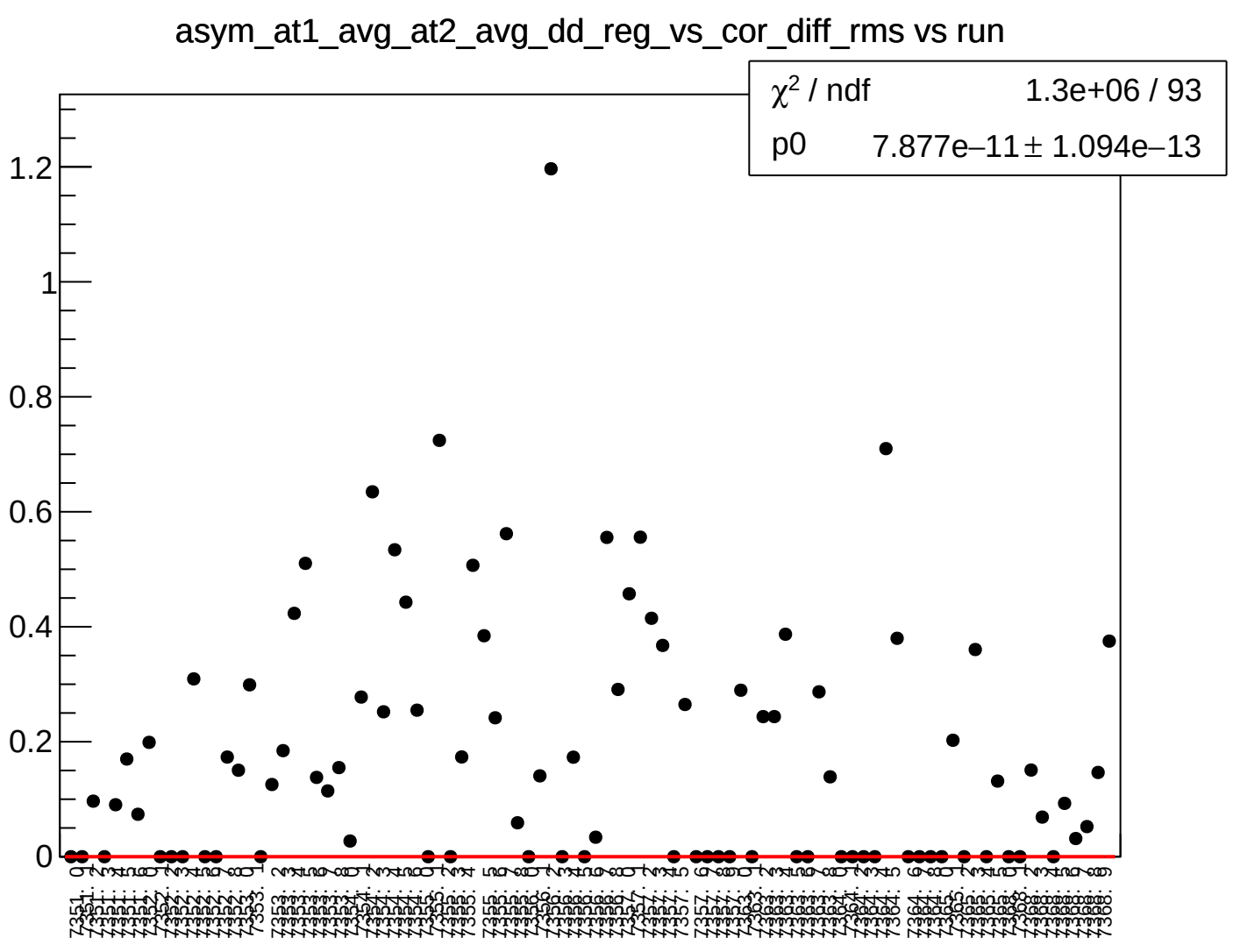

asym_at1_avg_at2_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.574e+04 / 93
p0 5622 ± 4.187
8000
7500
7000
6500
6000
5500
5000

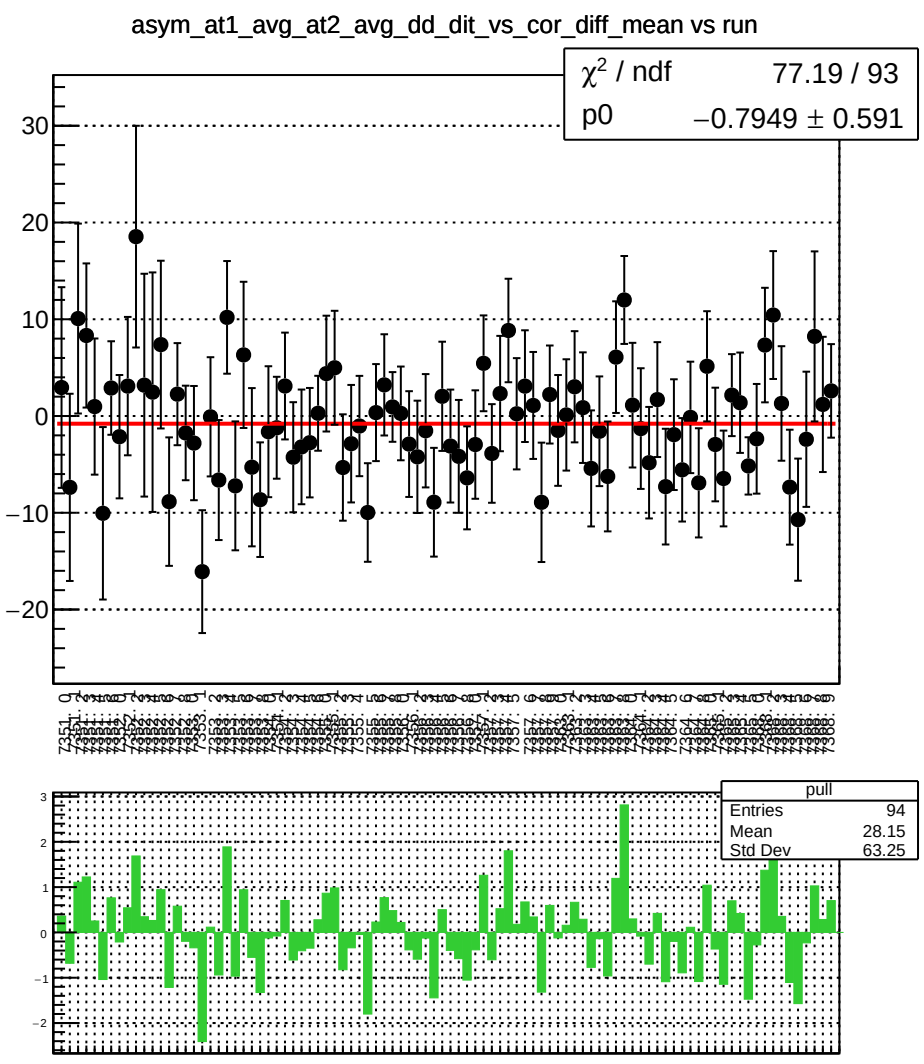

asym_at1_avg_at2_avg_dd_mean vs run
×10^3
χ² / ndf 71.57 / 93
p0 6087 ± 5638
200
150
100
50
0
−50
−100
−150
pull
Entries 94
Mean −126.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

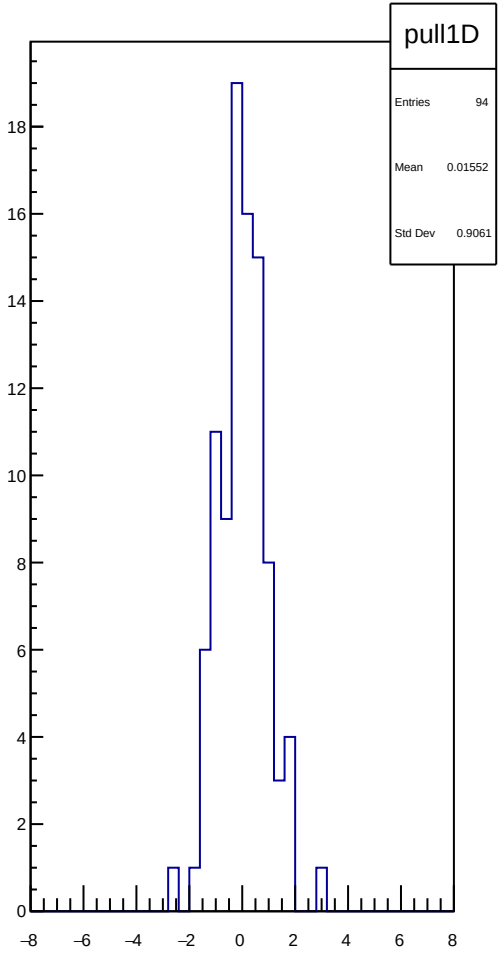

pull1D
Entries 94
Mean 0.0131
Std Dev 0.8725
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

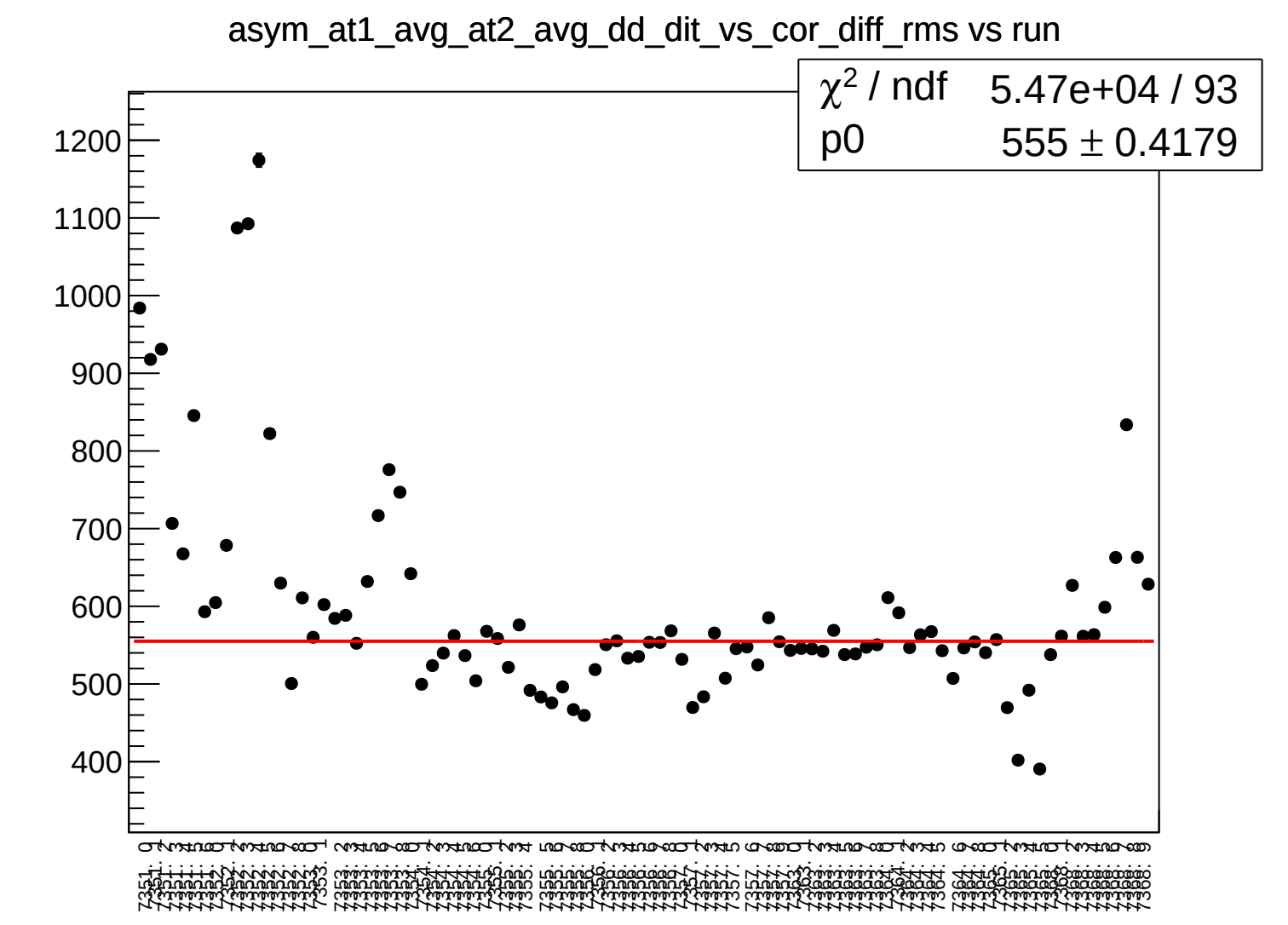

asym_at1_avg_at2_avg_dd_rms vs run
χ^2 / ndf 1.437e+04 / 93
p0 5355 ± 3.986
7500
7000
6500
6000
5500
5000
4500

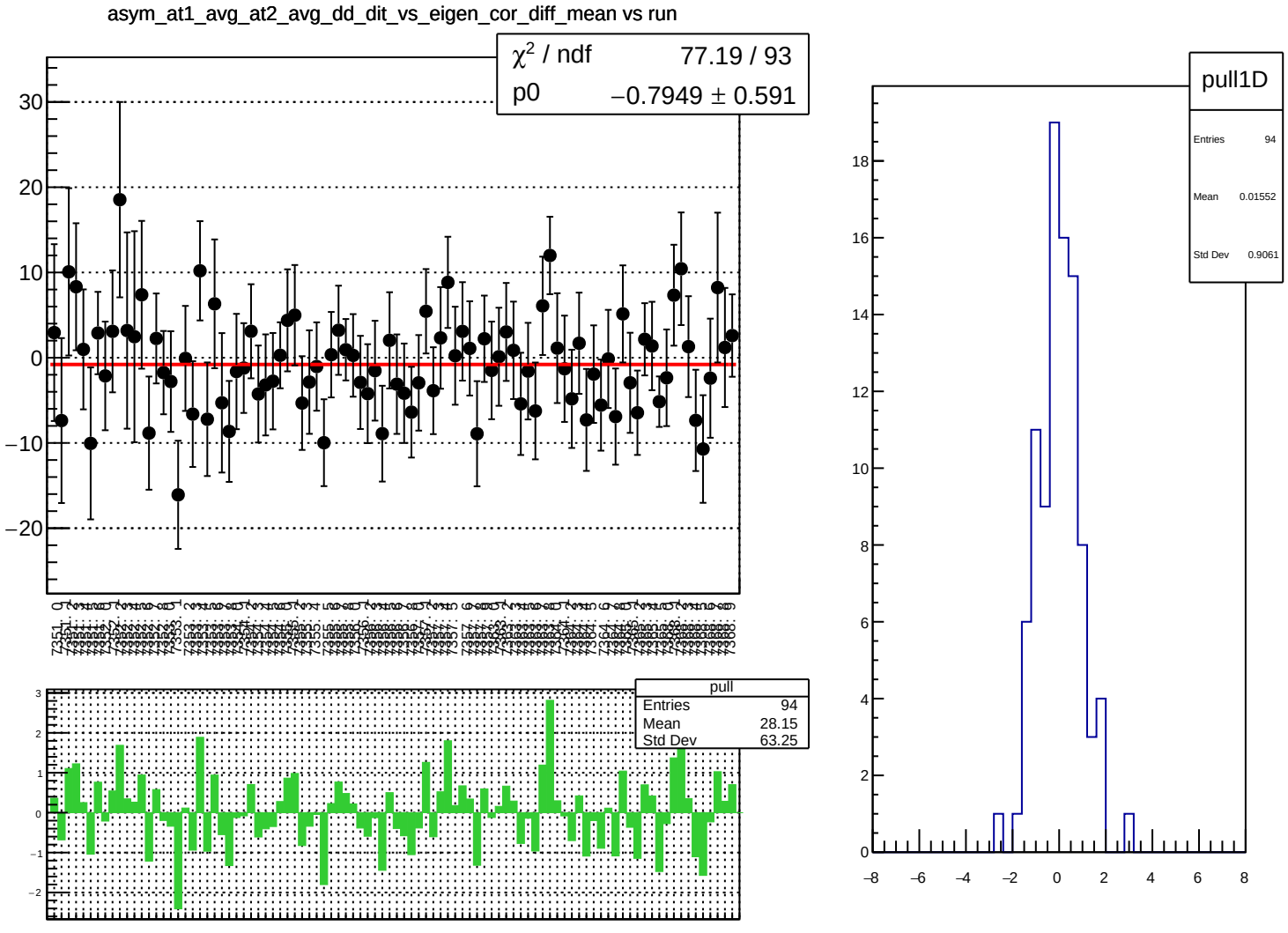

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 127.4 / 93
p0 1.315e−13 ± 1.548e−13
0.025
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 94
Mean 98
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.06122
Std Dev 1.163
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

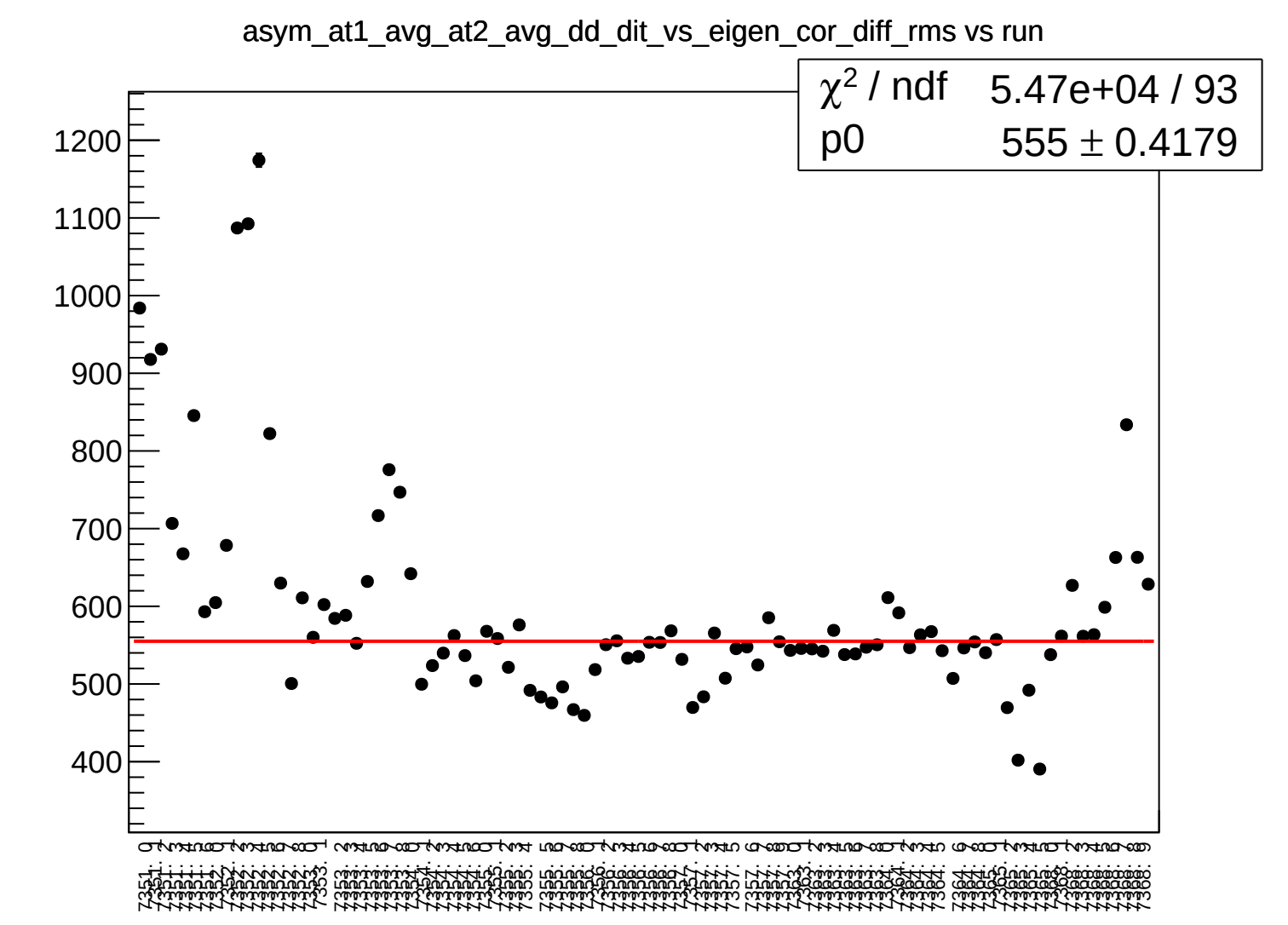

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.3e+06 / 93
p0 7.877e−11 ± 1.094e−13
1.2
1
0.8
0.6
0.4
0.2
0

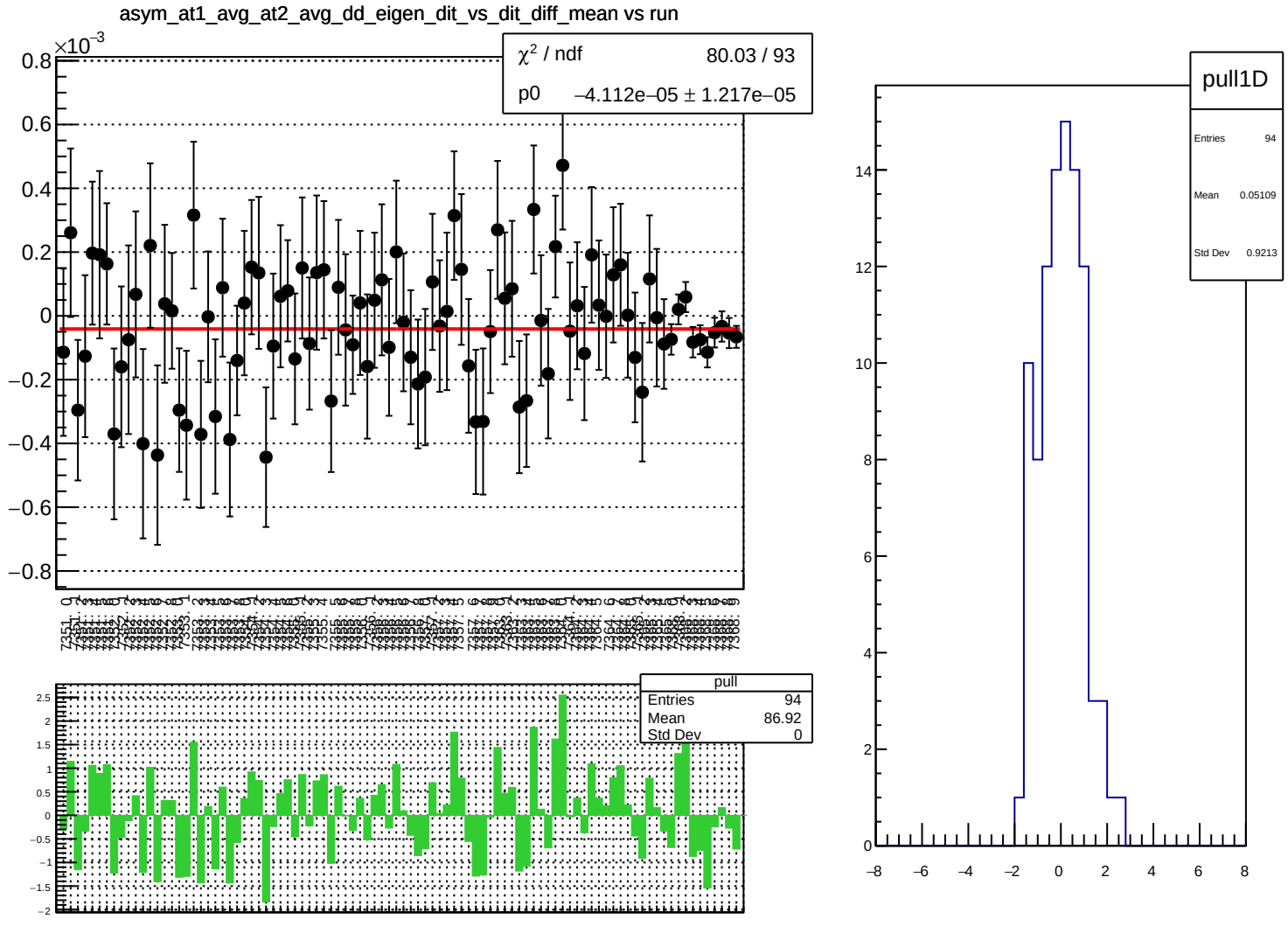

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 77.19 / 93
p0 −0.7949 ± 0.591
30
20
10
0
−10
−20
pull
Entries 94
Mean 28.15
Std Dev 63.25
3
2
1
0
−1
−2

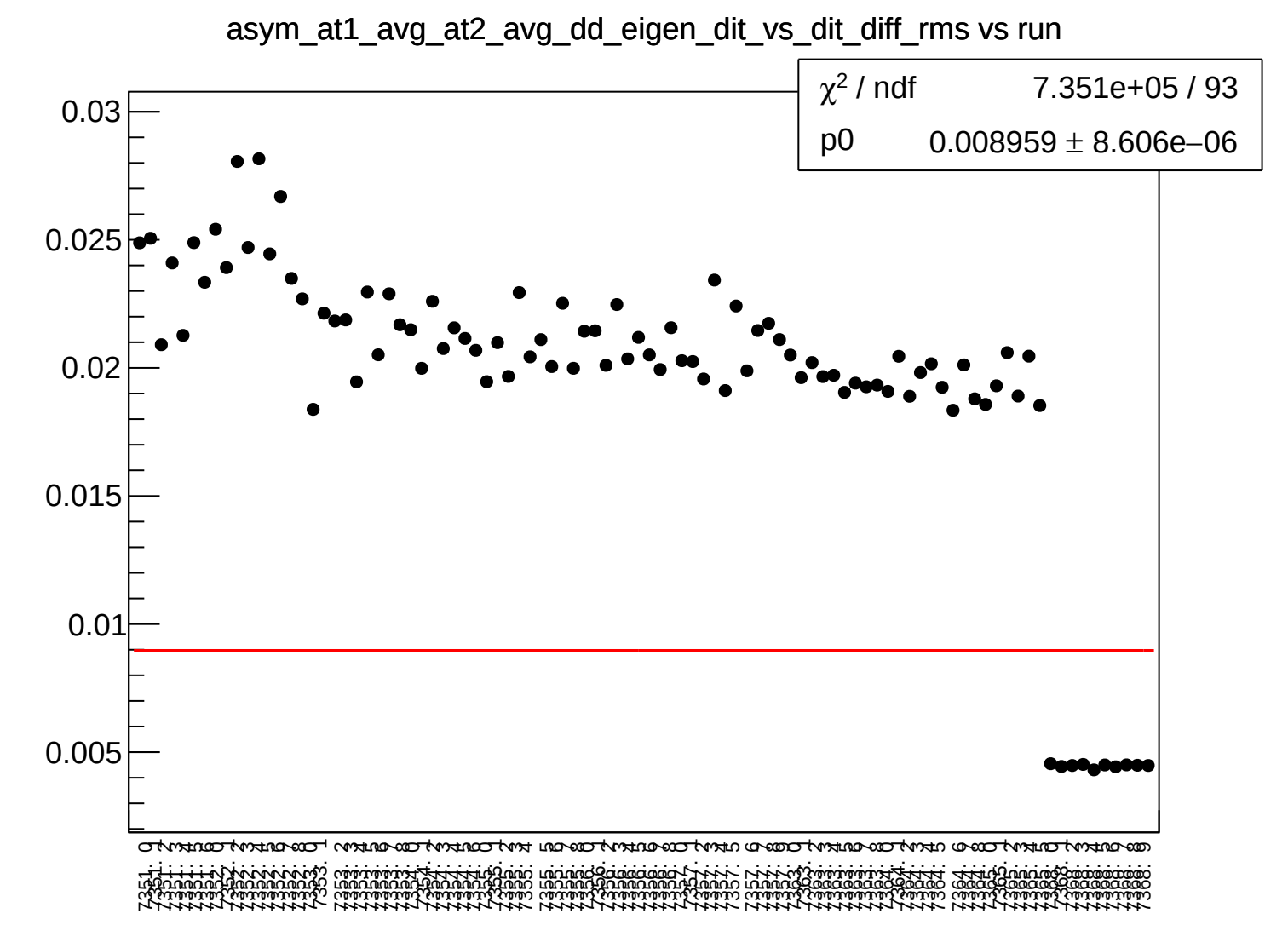

pull1D
Entries 94
Mean 0.01552
Std Dev 0.9061
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

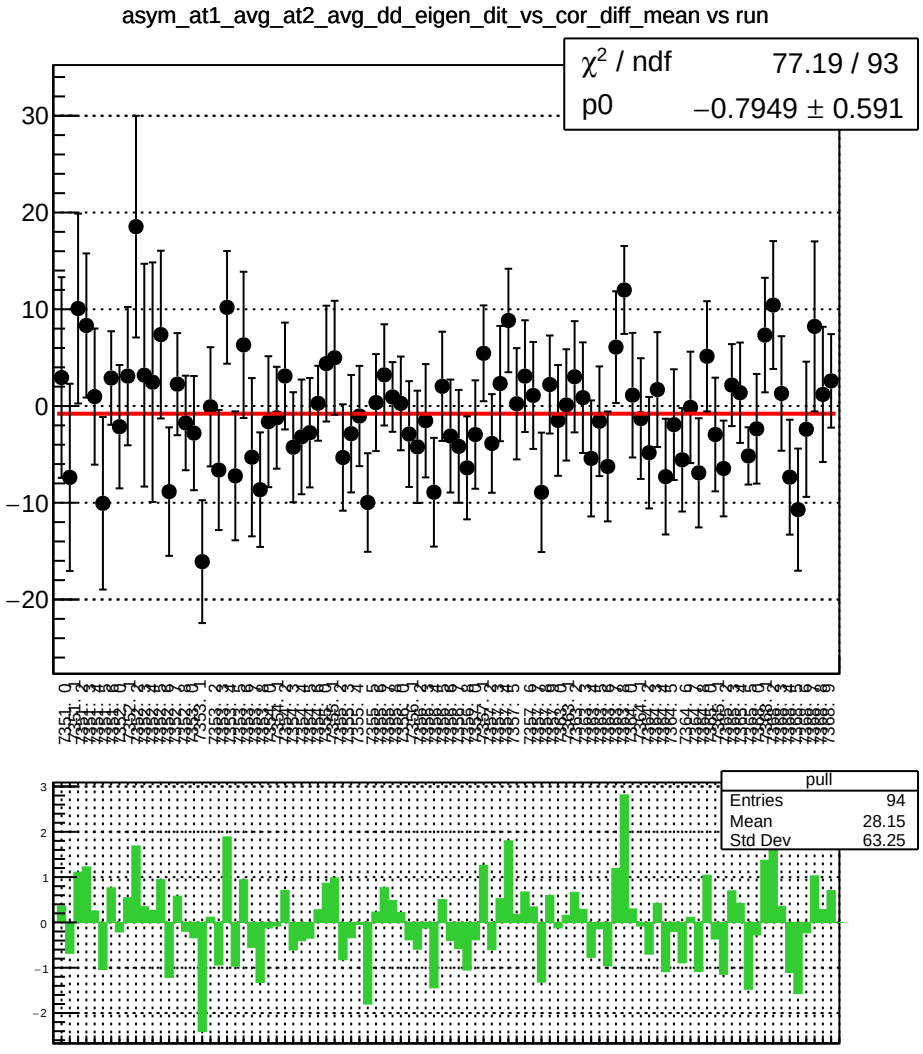

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 5.47e+04 / 93
p0 555 ± 0.4179
1200
1100
1000
900
800
700
600
500
400

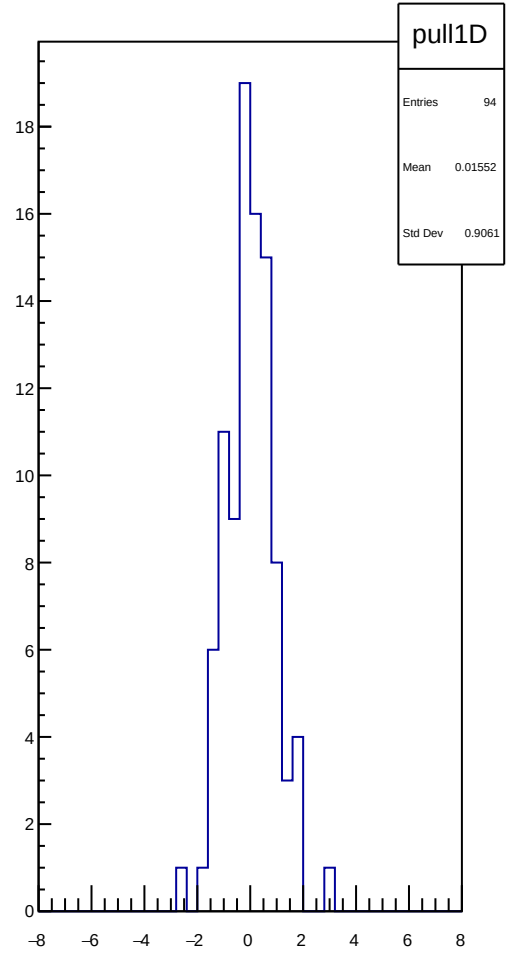

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.19 / 93
p0 −0.7949 ± 0.591
pull
Entries 94
Mean 28.15
Std Dev 63.25
pull1D
Entries 94
Mean 0.01552
Std Dev 0.9061

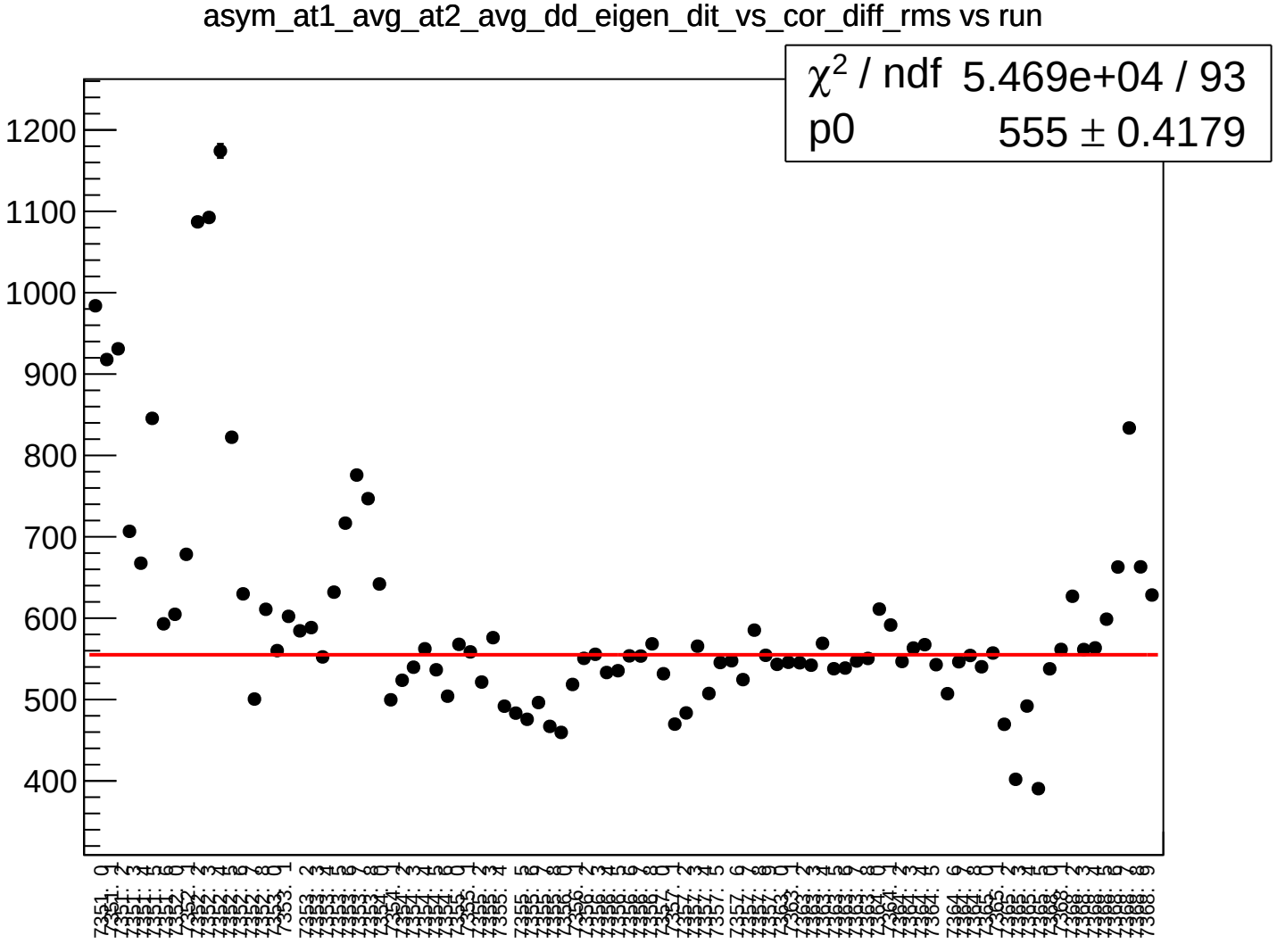

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.47e+04 / 93
p0 555 ± 0.4179
1200
1100
1000
900
800
700
600
500
400

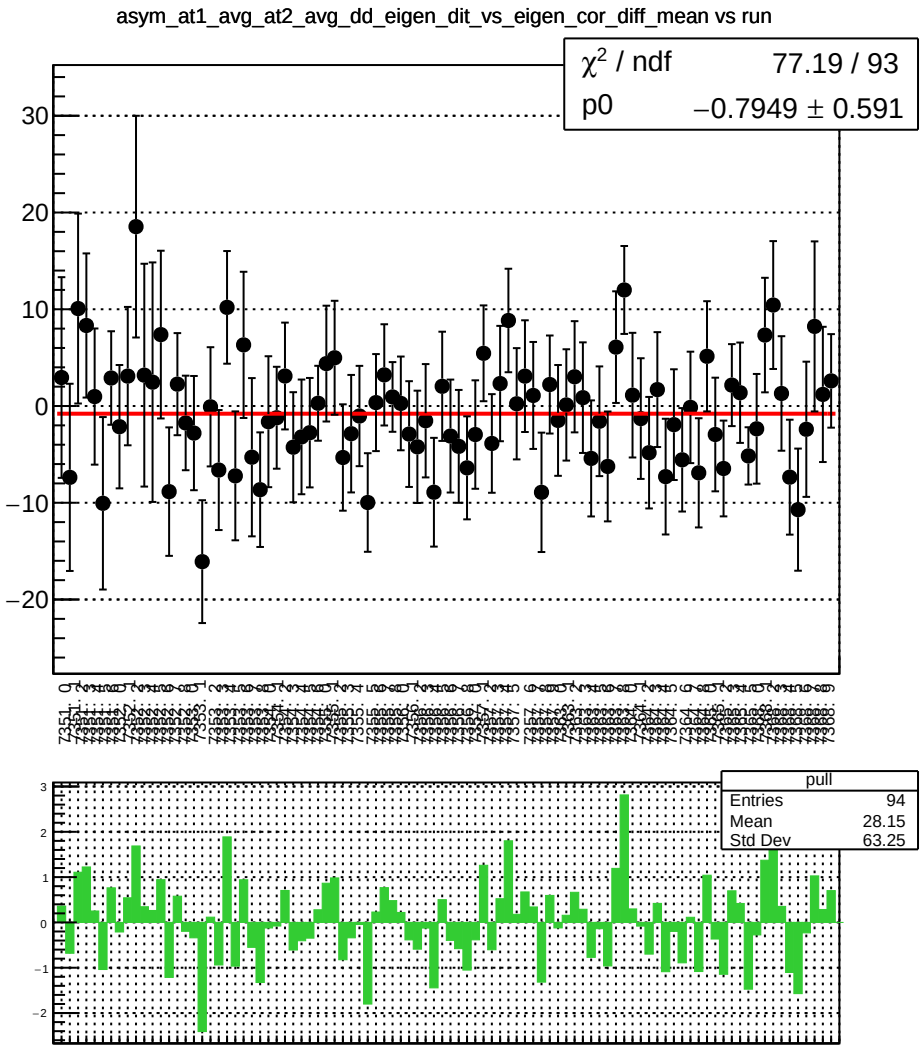

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 80.03 / 93
p0 −4.112e−05 ± 1.217e−05
pull
Entries 94
Mean 86.92
Std Dev 0
pull1D
Entries 94
Mean 0.05109
Std Dev 0.9213

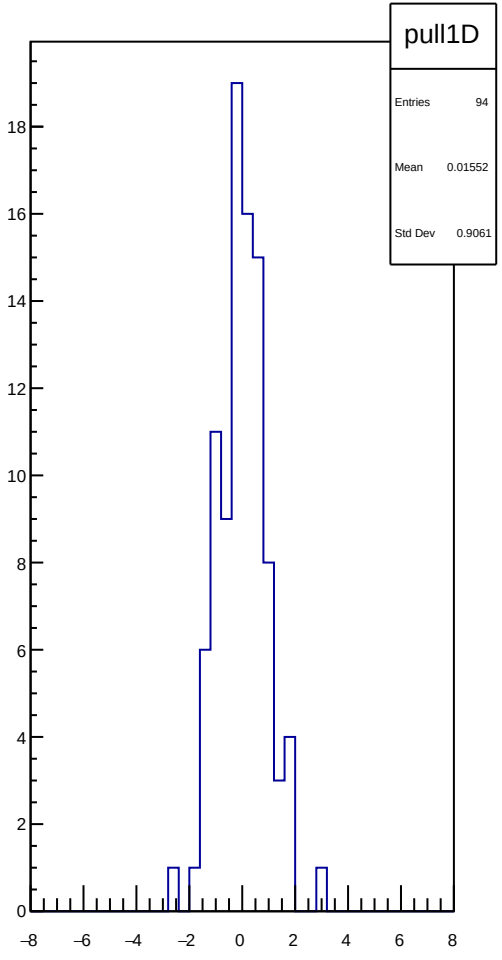

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.351e+05 / 93
p0 0.008959 ± 8.606e−06
0.03
0.025
0.02
0.015
0.01
0.005

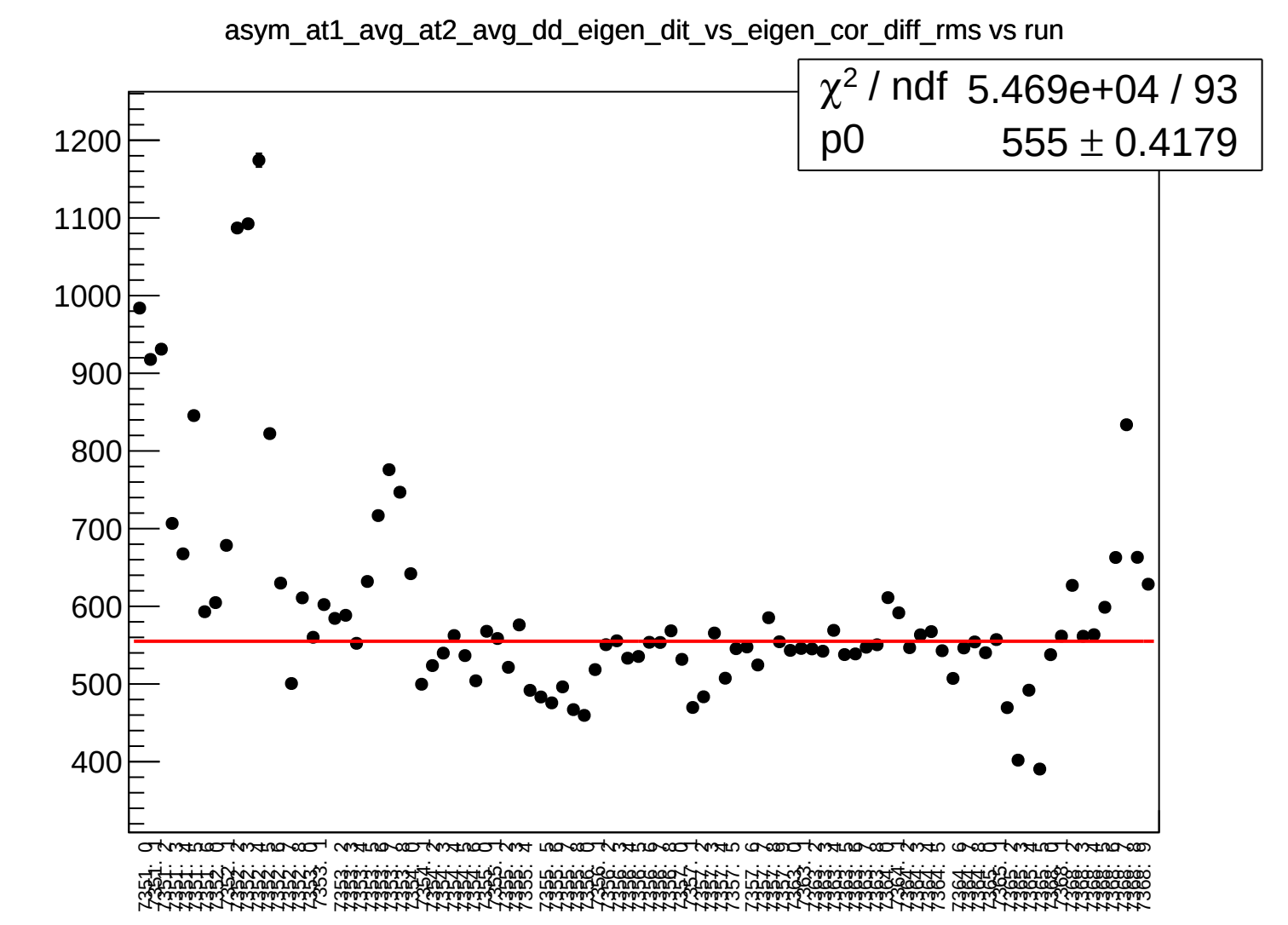

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.19 / 93
p0 −0.7949 ± 0.591
pull
Entries 94
Mean 28.15
Std Dev 63.25

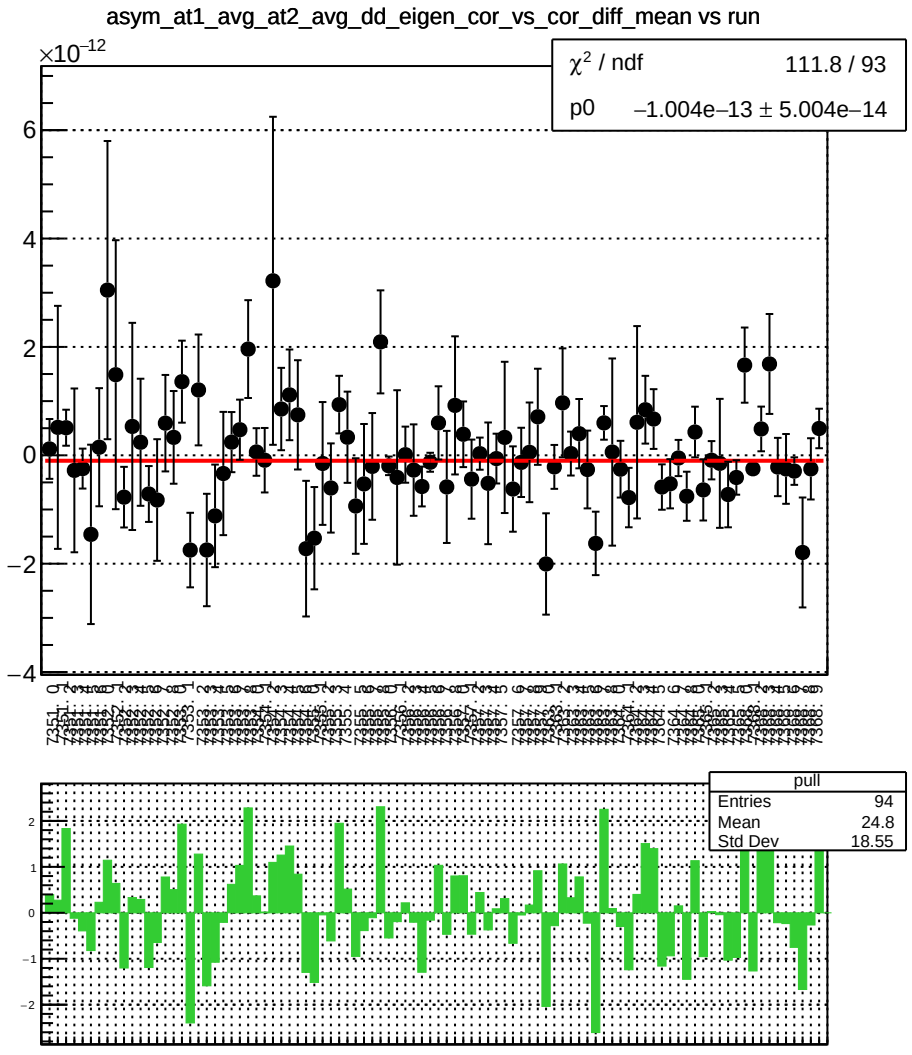

pull1D
Entries 94
Mean 0.01552
Std Dev 0.9061

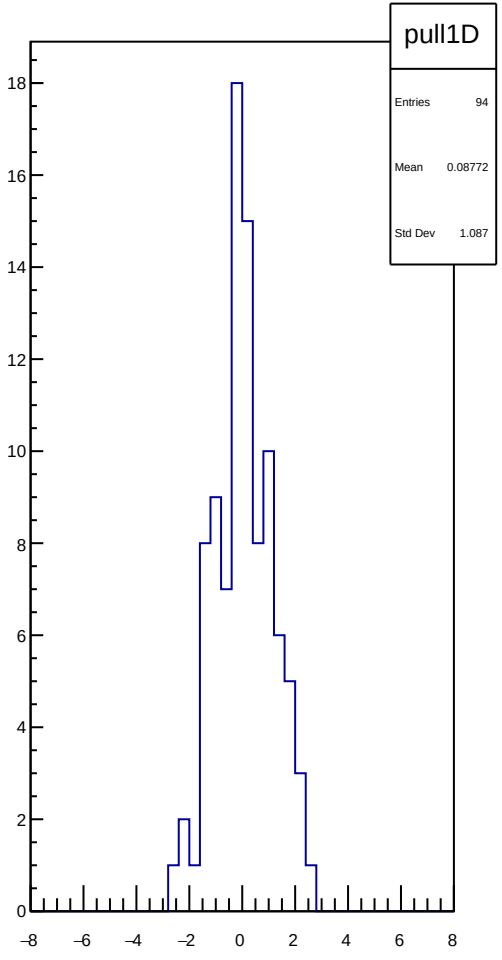

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.469e+04 / 93
p0 555 ± 0.4179
1200
1100
1000
900
800
700
600
500
400

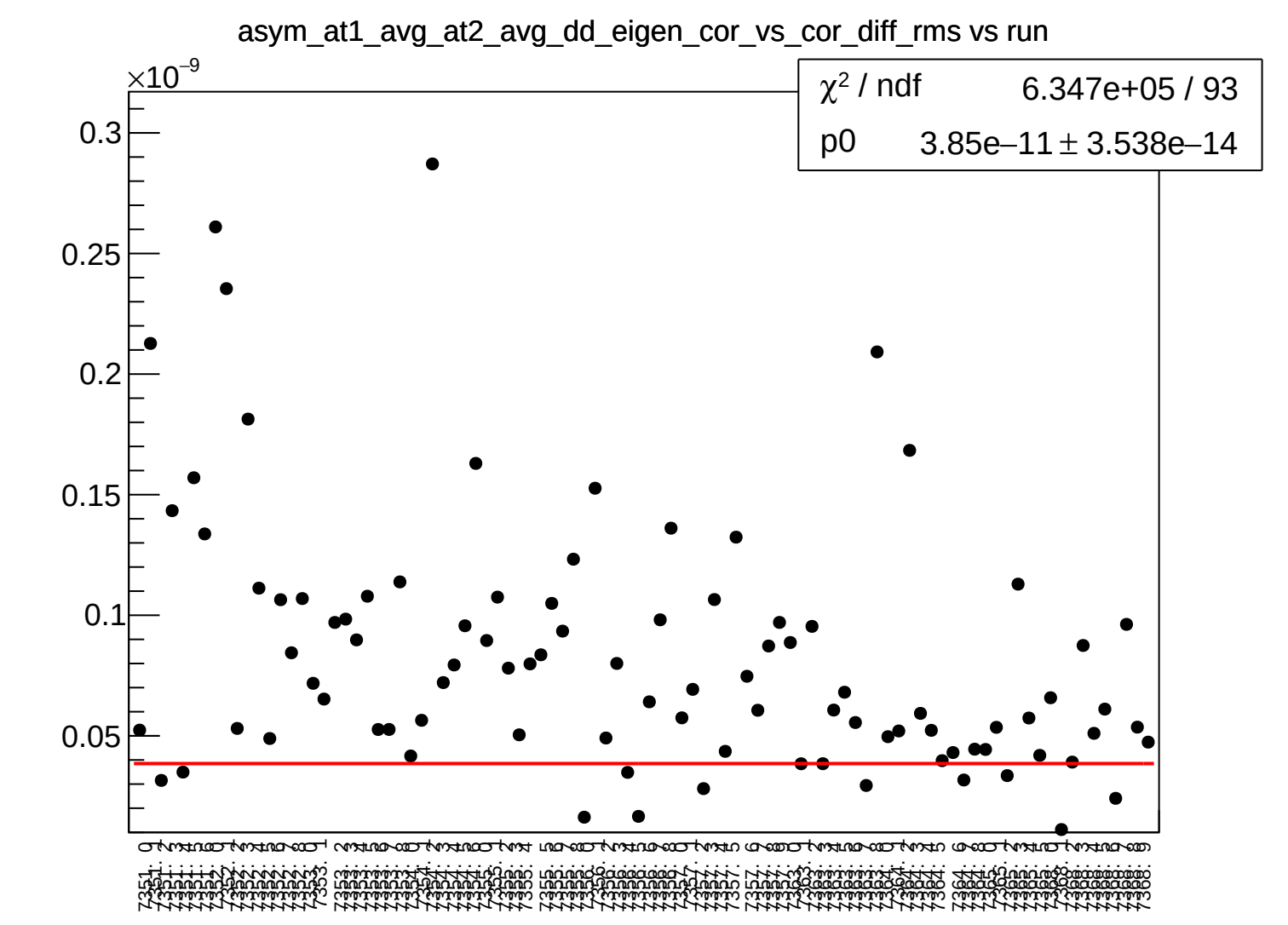

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.19 / 93
p0 −0.7949 ± 0.591
pull
Entries 94
Mean 28.15
Std Dev 63.25

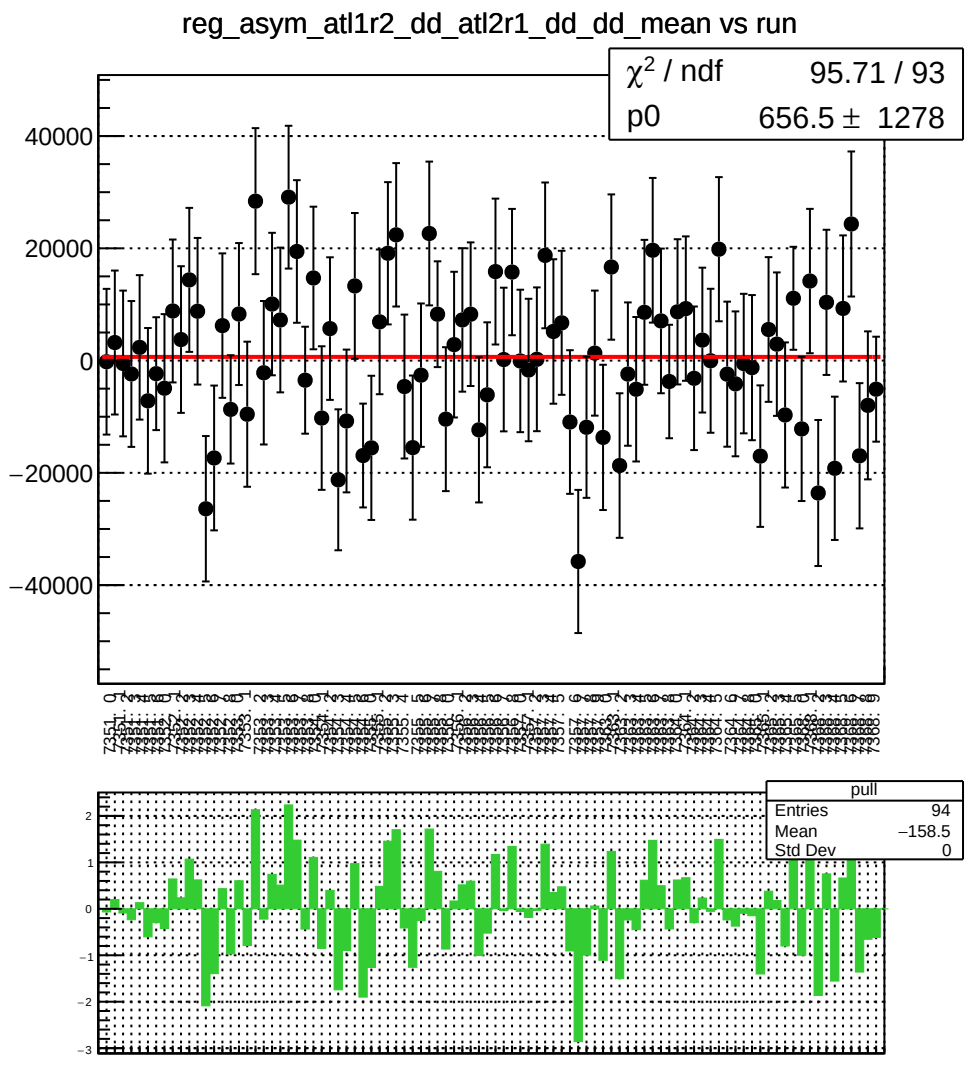

pull1D
Entries 94
Mean 0.01552
Std Dev 0.9061

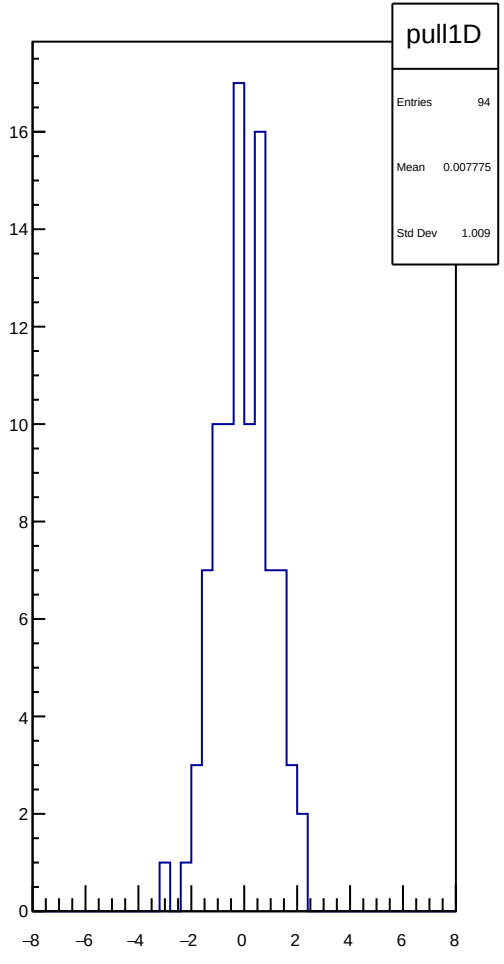

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.469e+04 / 93
p0 555 ± 0.4179
1200
1100
1000
900
800
700
600
500
400

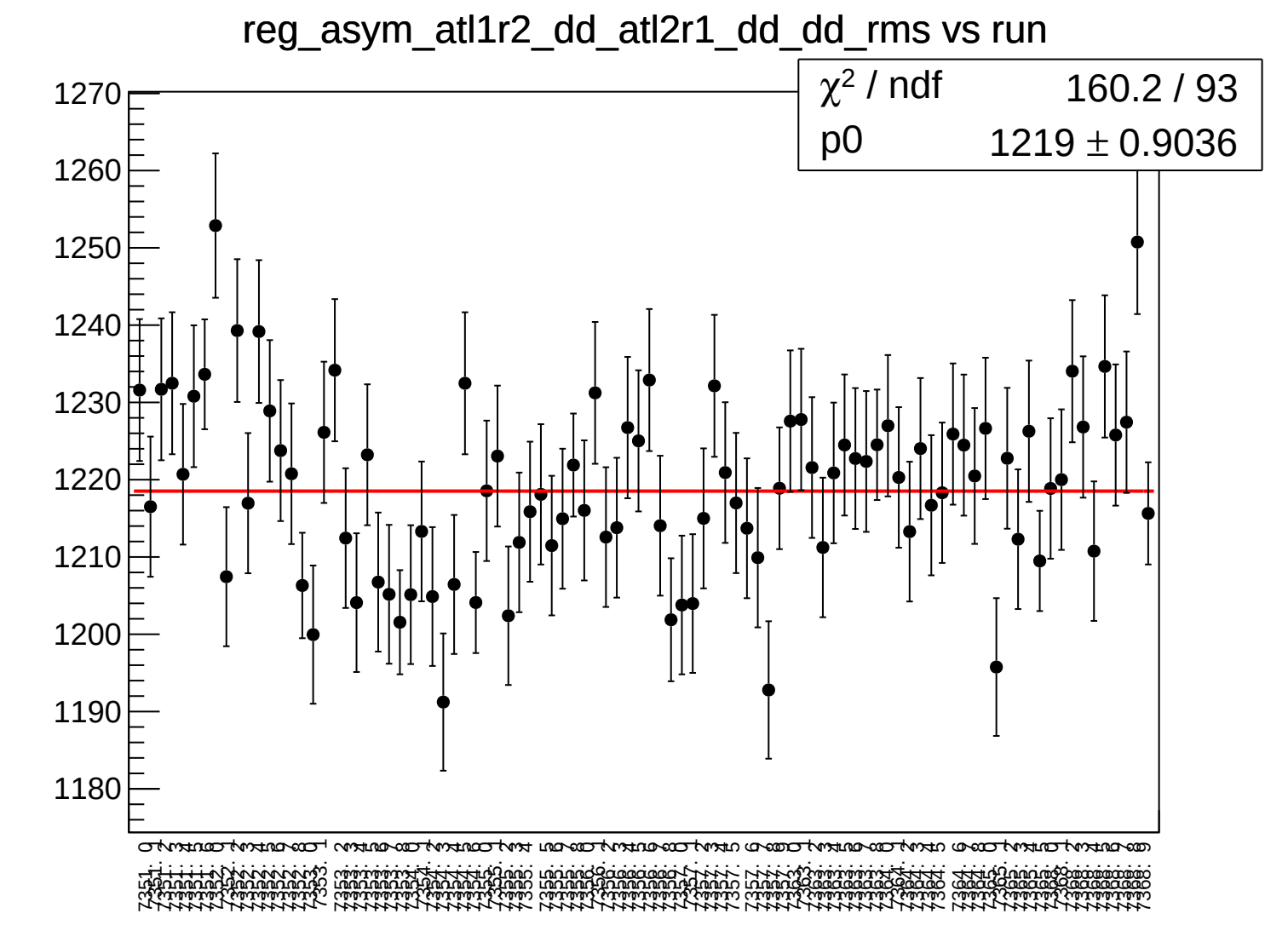

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 111.8 / 93
p0 −1.004e−13 ± 5.004e−14
pull
Entries 94
Mean 24.8
Std Dev 18.55

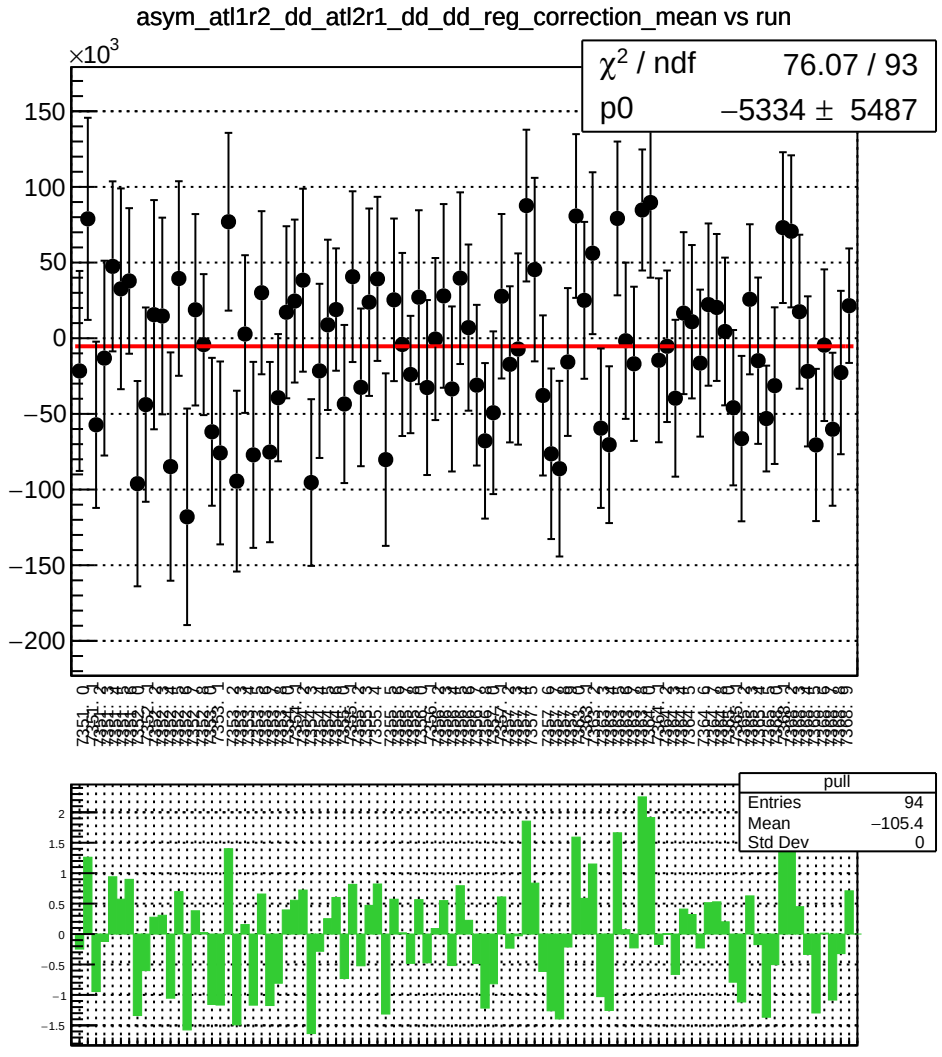

pull1D
Entries 94
Mean 0.08772
Std Dev 1.087

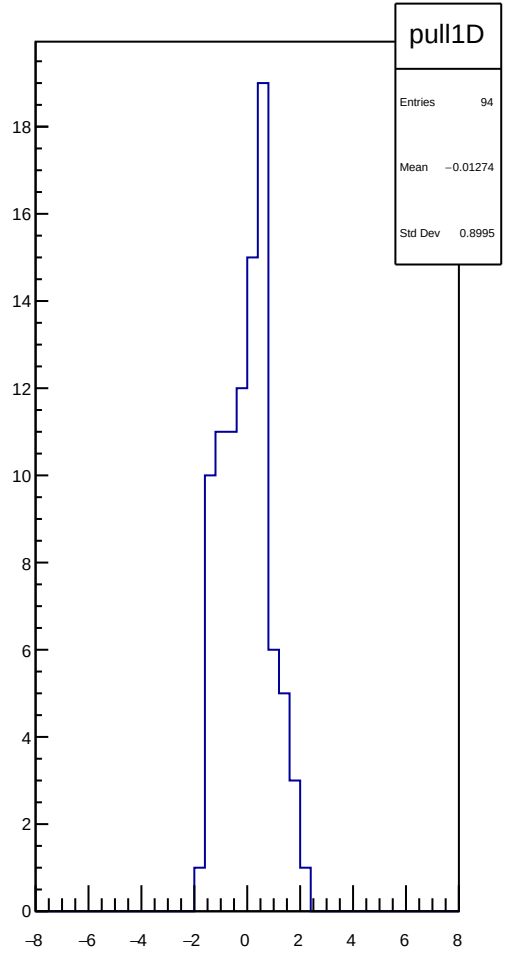

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.347e+05 / 93
p0 3.85e−11 ± 3.538e−14
0.3
0.25
0.2
0.15
0.1
0.05

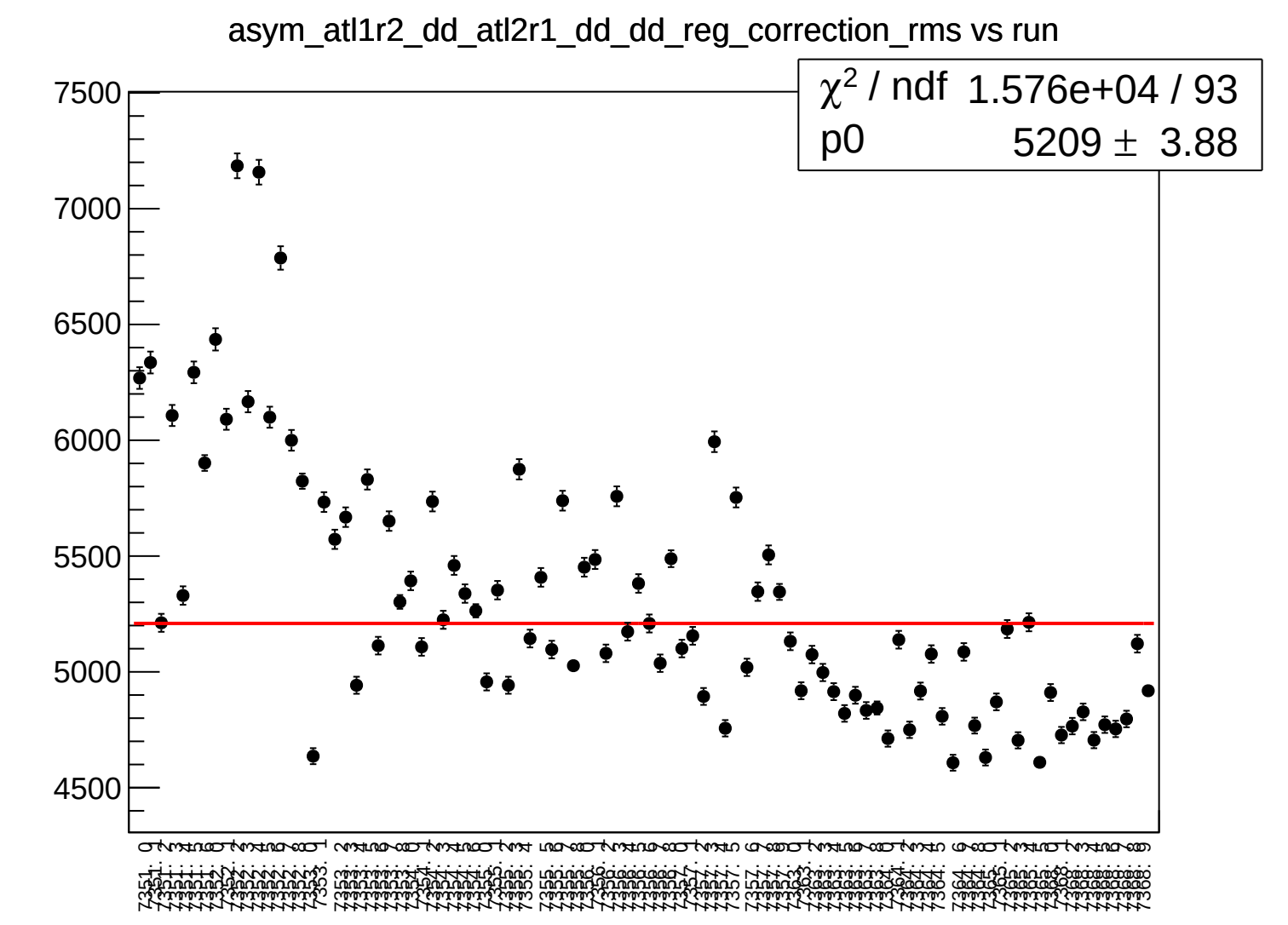

reg_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 95.71 / 93
p0 656.5 ± 1278
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −158.5
Std Dev 0
2
1
0
−1
−2
−3

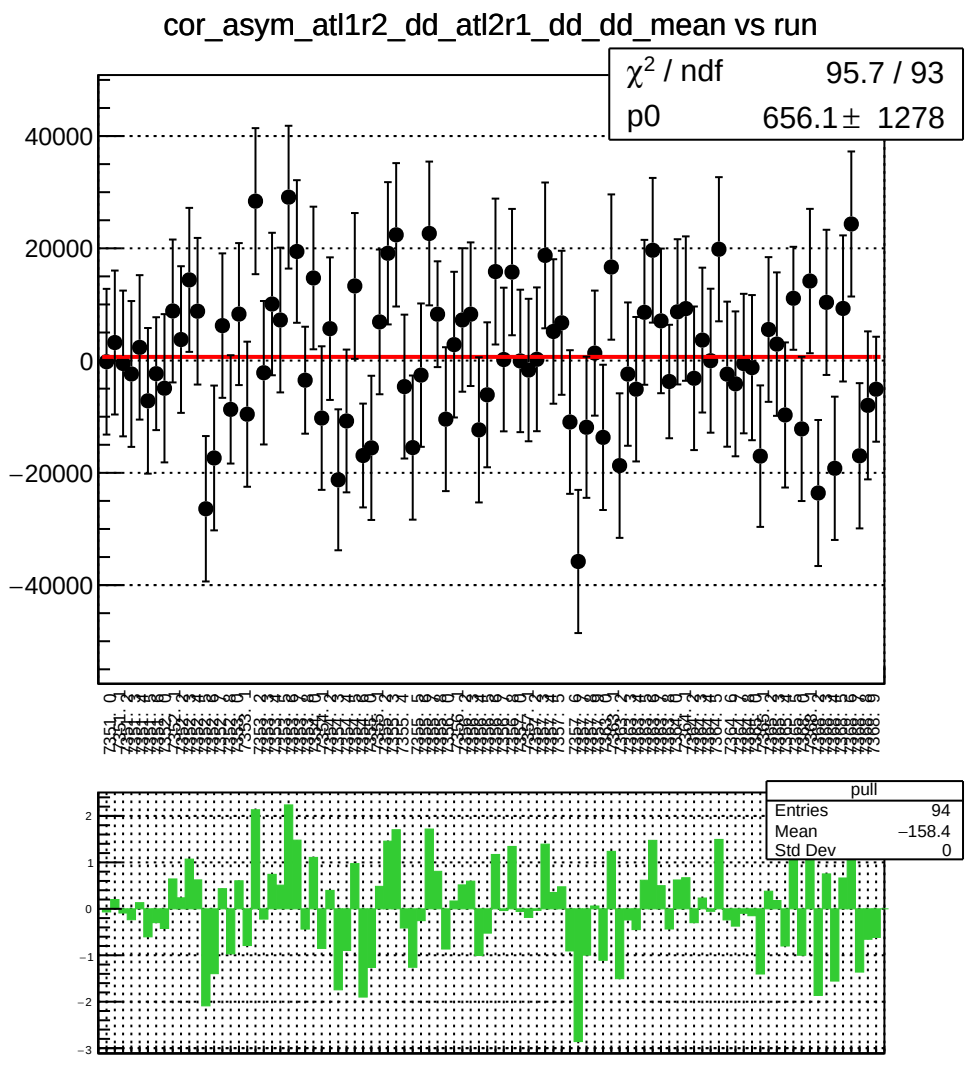

pull1D
Entries 94
Mean 0.007775
Std Dev 1.009
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

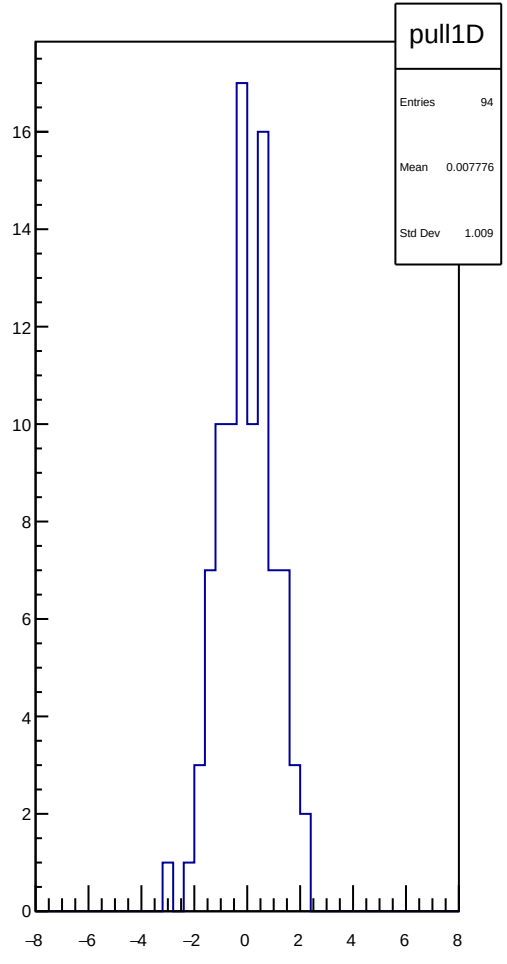

reg_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 160.2 / 93
p0 1219 ± 0.9036
1270
1260
1250
1240
1230
1220
1210
1200
1190
1180

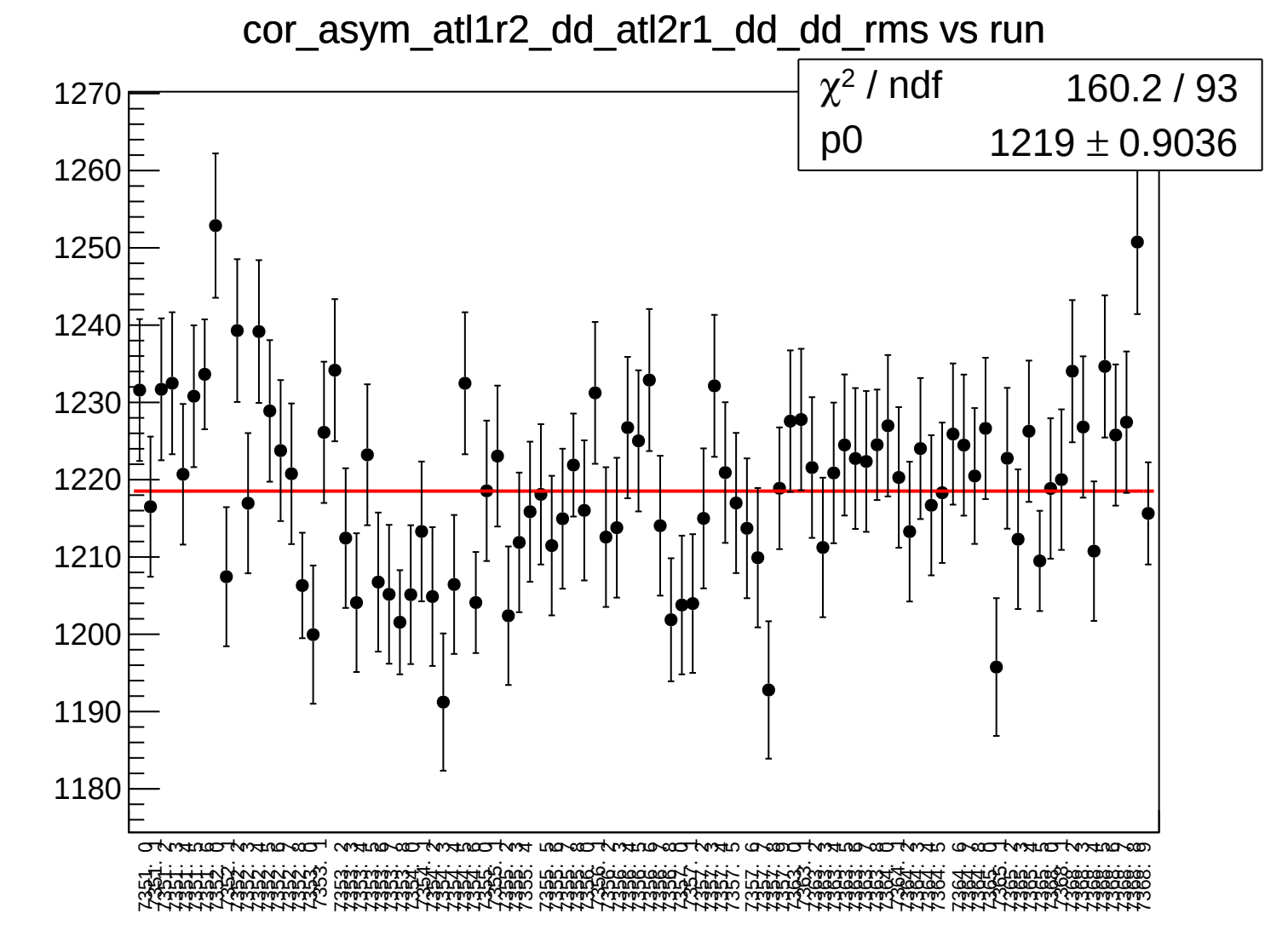

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_mean vs run
×10^3
χ² / ndf 76.07 / 93
p0 −5334 ± 5487
150
100
50
0
−50
−100
−150
−200
pull
Entries 94
Mean −105.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

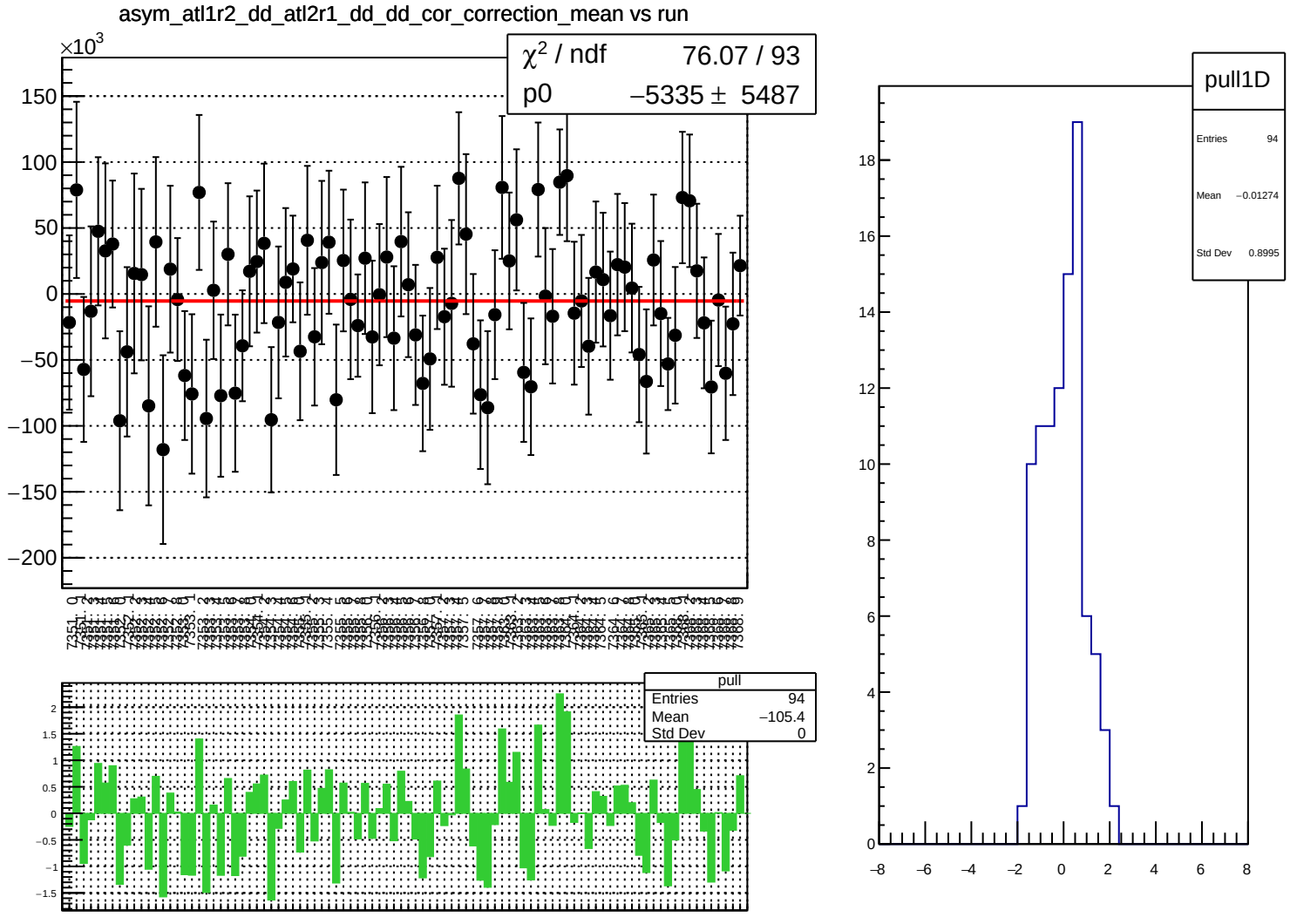

pull1D
Entries 94
Mean −0.01274
Std Dev 0.8995
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

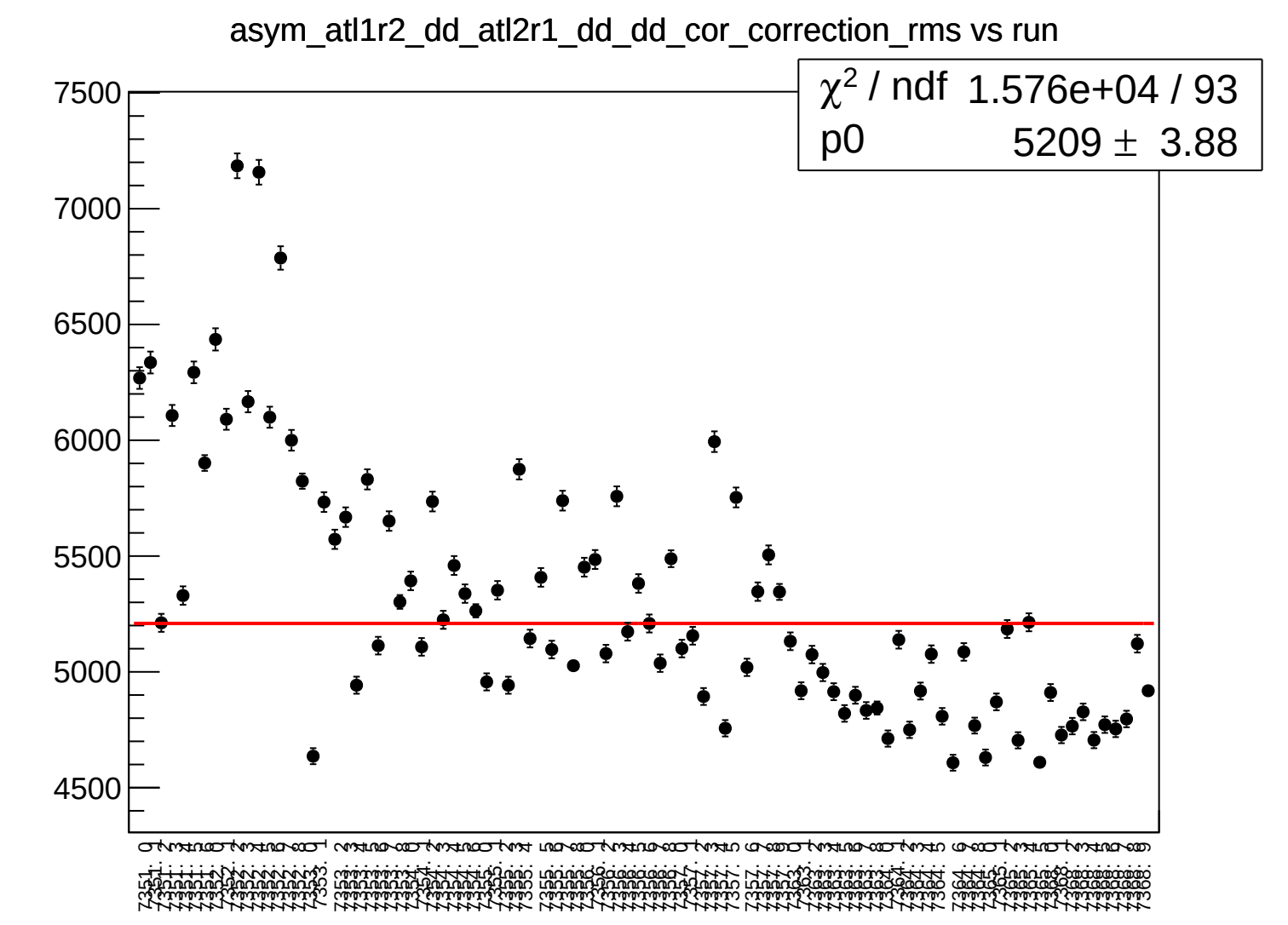

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_rms vs run
χ² / ndf 1.576e+04 / 93
p0 5209 ± 3.88
7500
7000
6500
6000
5500
5000
4500

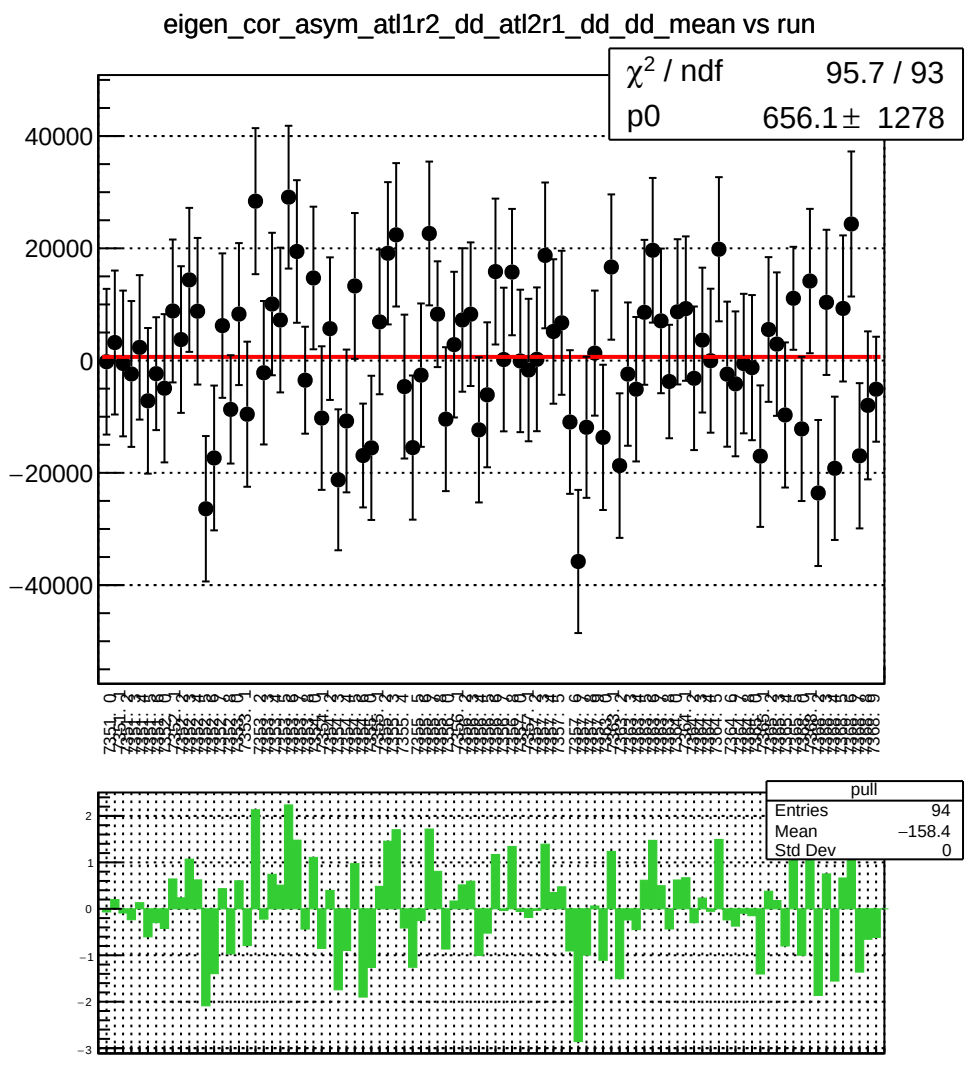

cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 95.7 / 93
p0 656.1 ± 1278
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −158.4
Std Dev 0
2
1
0
−1
−2
−3

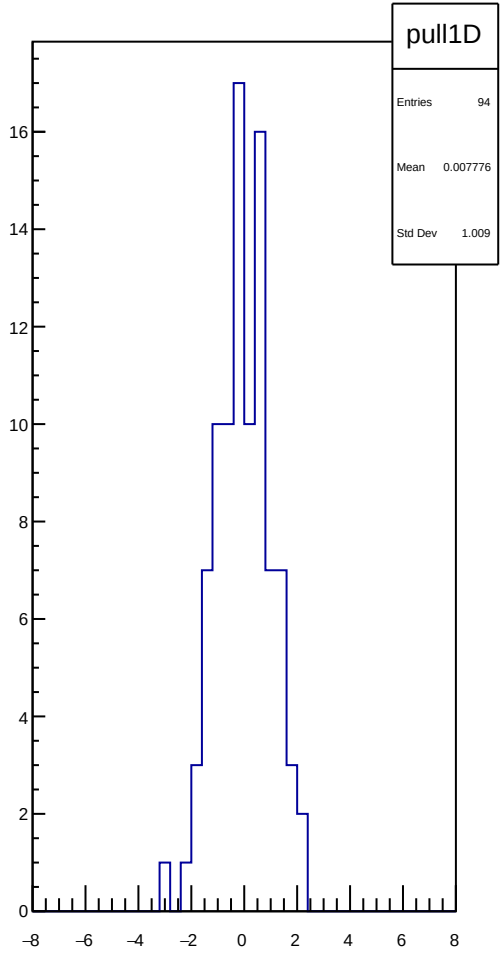

pull1D
Entries 94
Mean 0.007776
Std Dev 1.009
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

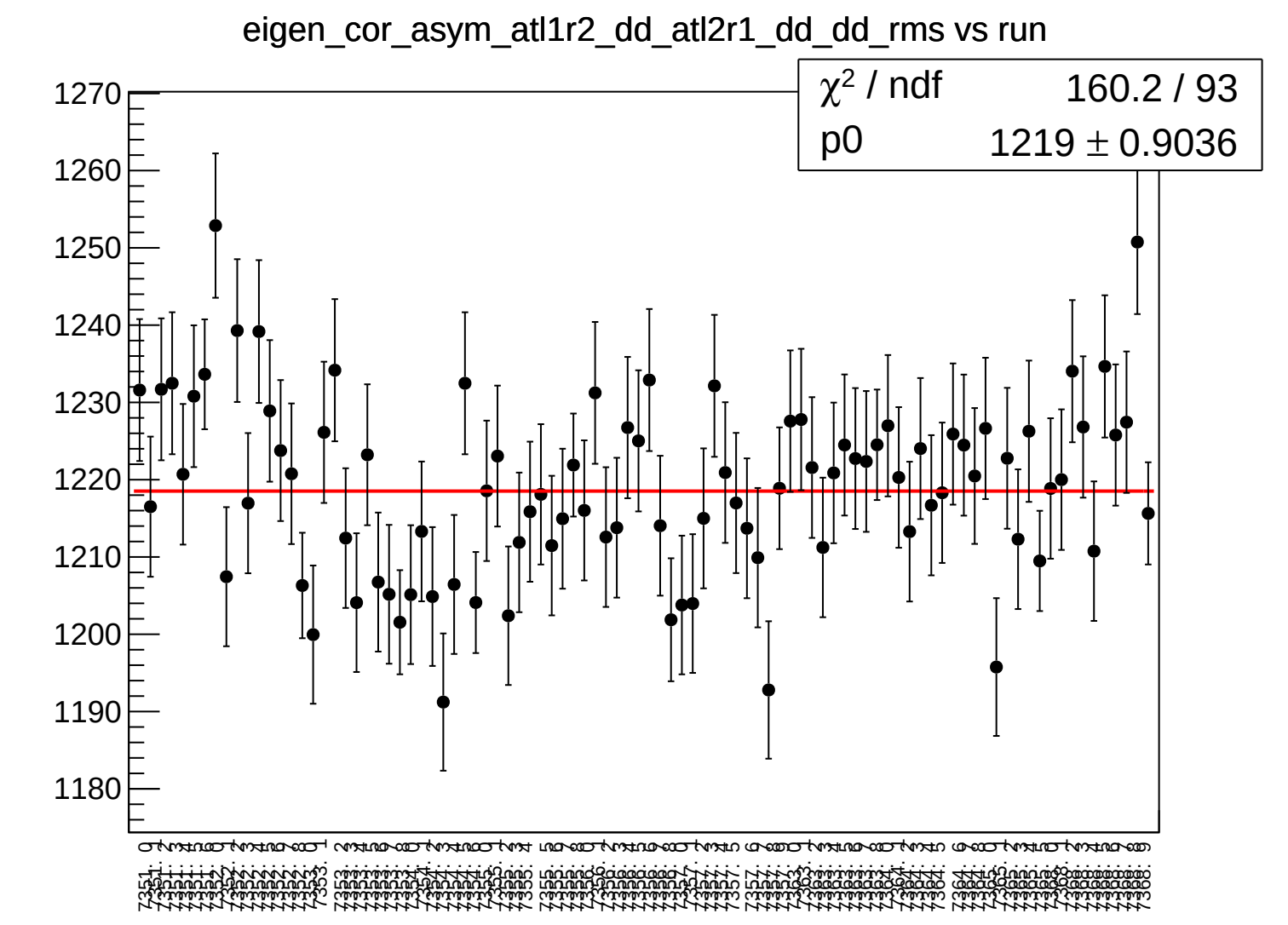

cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 160.2 / 93
p0 1219 ± 0.9036
1270
1260
1250
1240
1230
1220
1210
1200
1190
1180

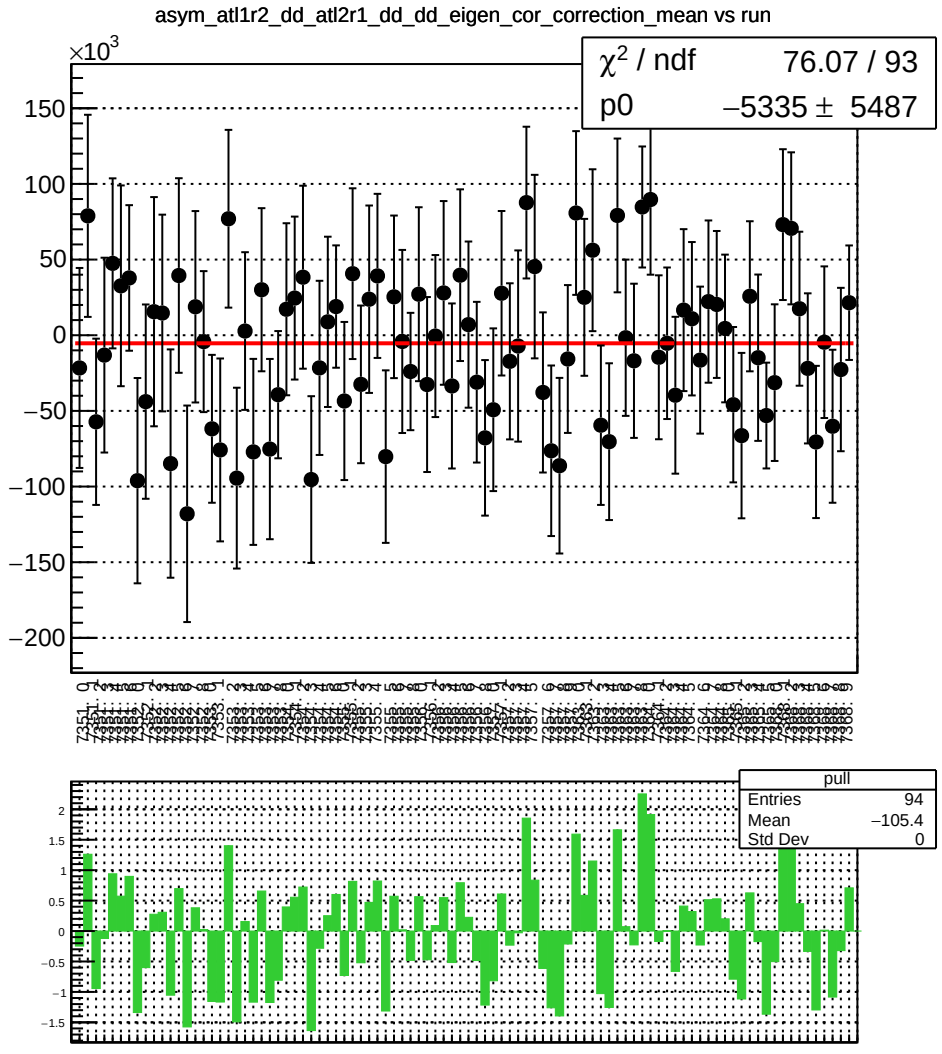

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_mean vs run
×10^3
χ² / ndf 76.07 / 93
p0 −5335 ± 5487
150
100
50
0
−50
−100
−150
−200
pull
Entries 94
Mean −105.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 94
Mean −0.01274
Std Dev 0.8995
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

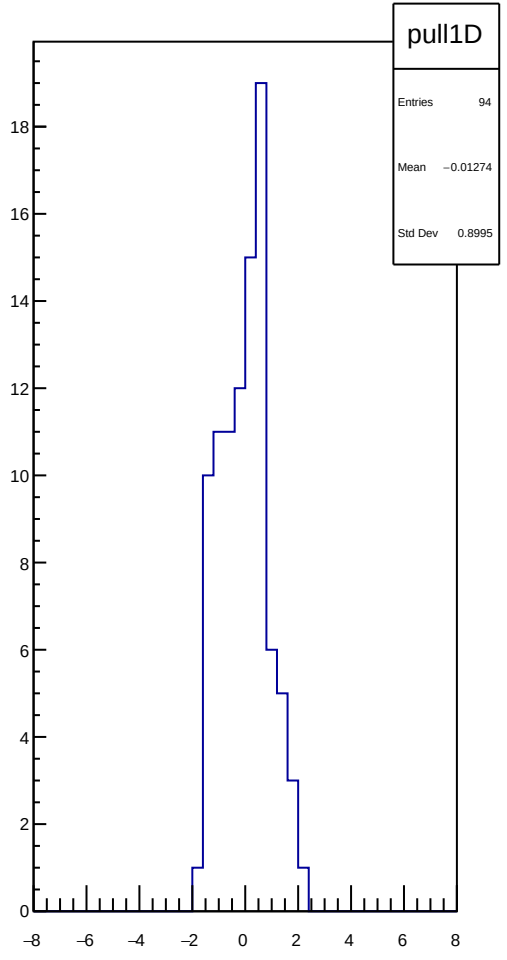

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_rms vs run
χ² / ndf 1.576e+04 / 93
p0 5209 ± 3.88
7500
7000
6500
6000
5500
5000
4500

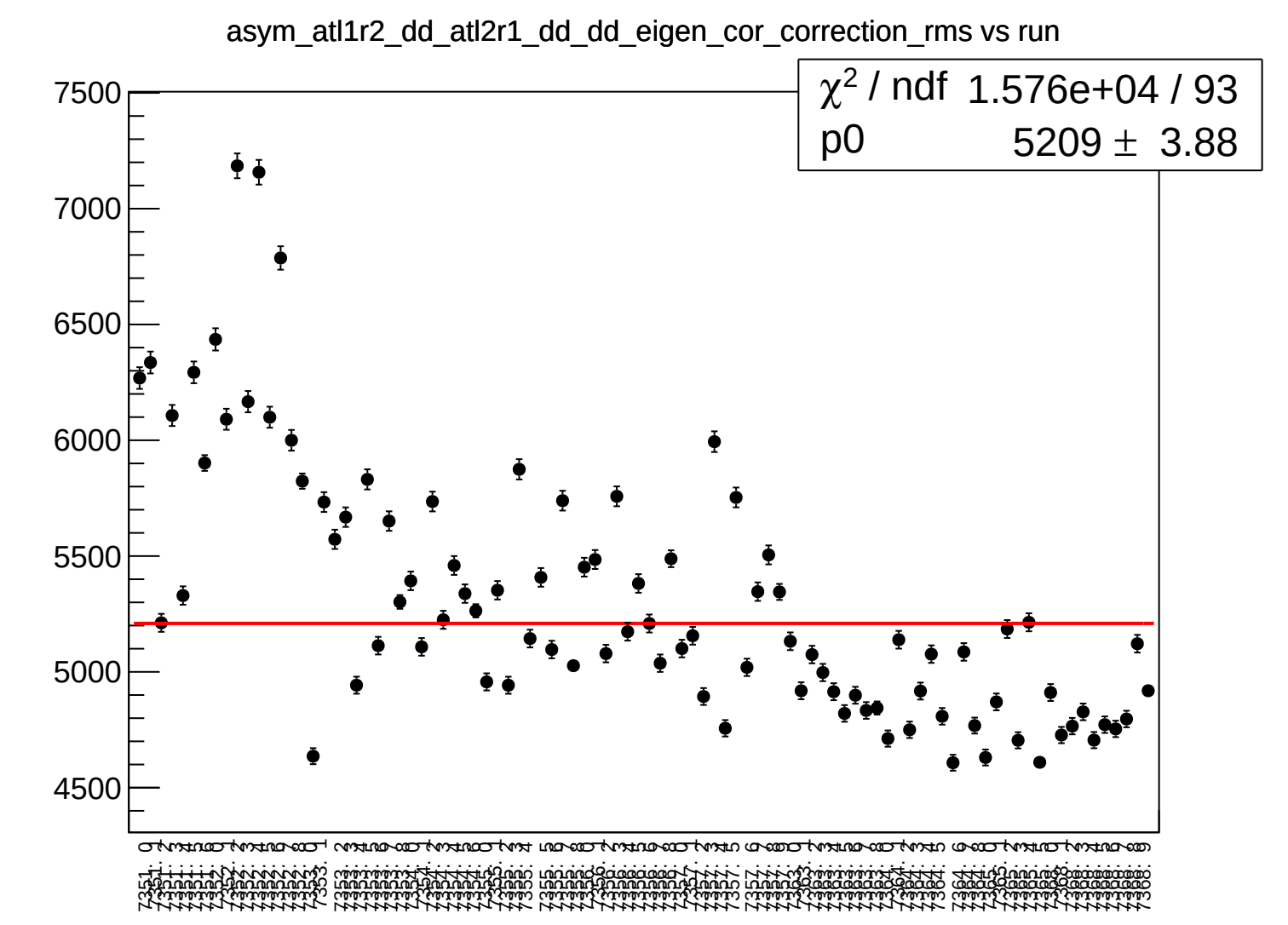

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 95.7 / 93
p0 656.1 ± 1278
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −158.4
Std Dev 0
2
1
0
−1
−2
−3

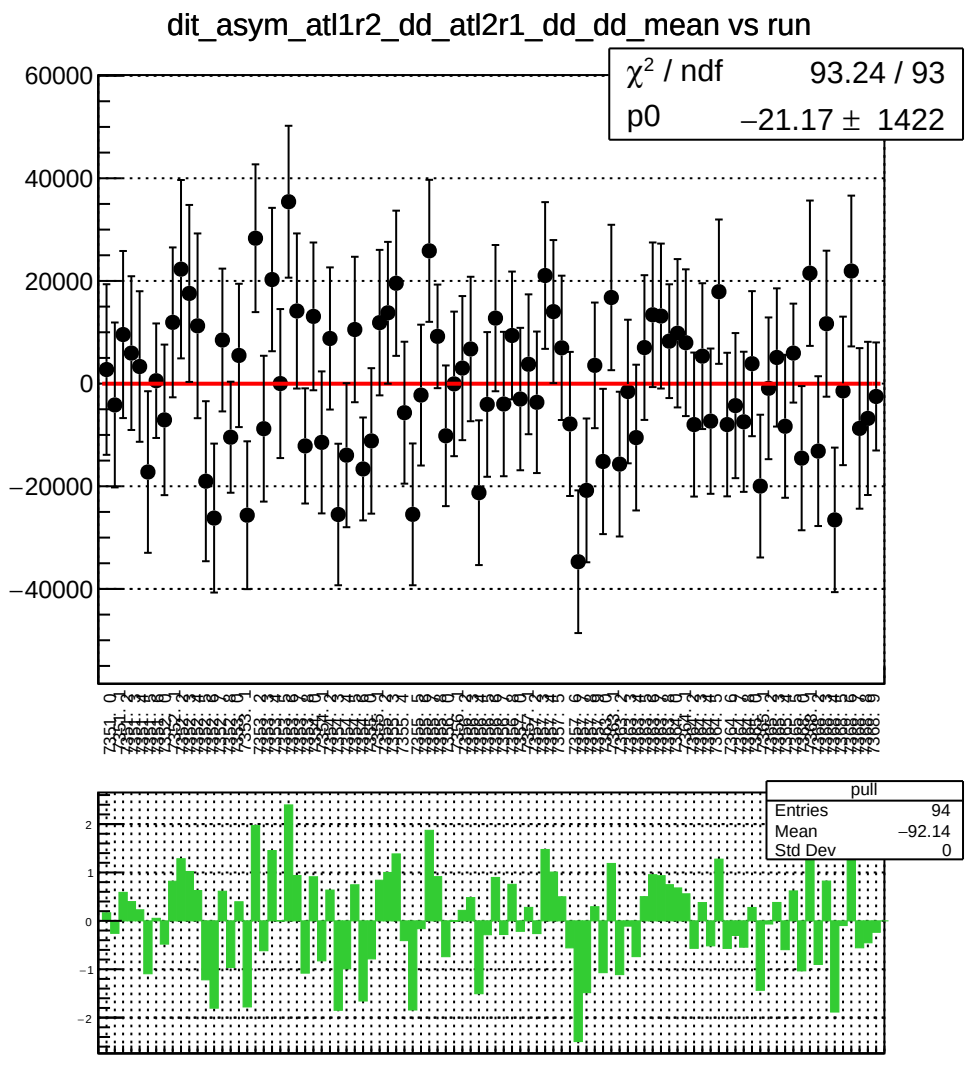

pull1D
Entries 94
Mean 0.007776
Std Dev 1.009
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

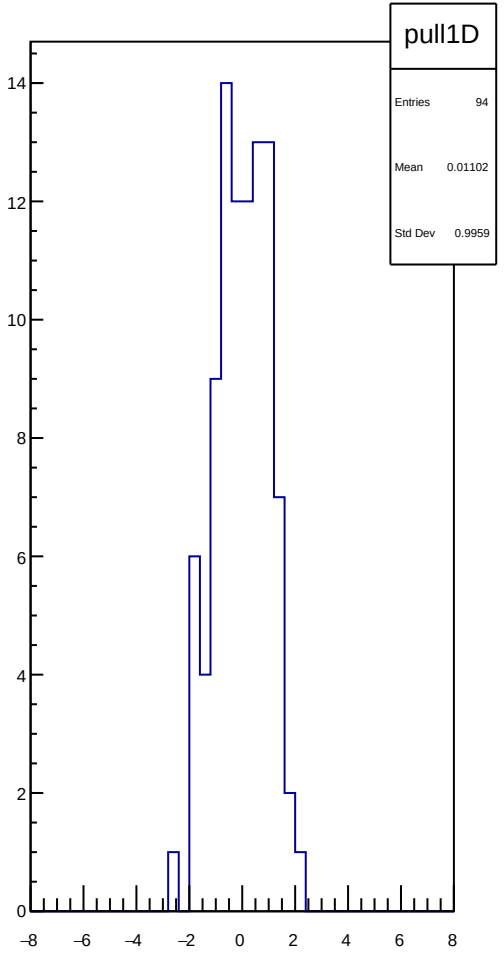

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 160.2 / 93
p0 1219 ± 0.9036
1270
1260
1250
1240
1230
1220
1210
1200
1190
1180

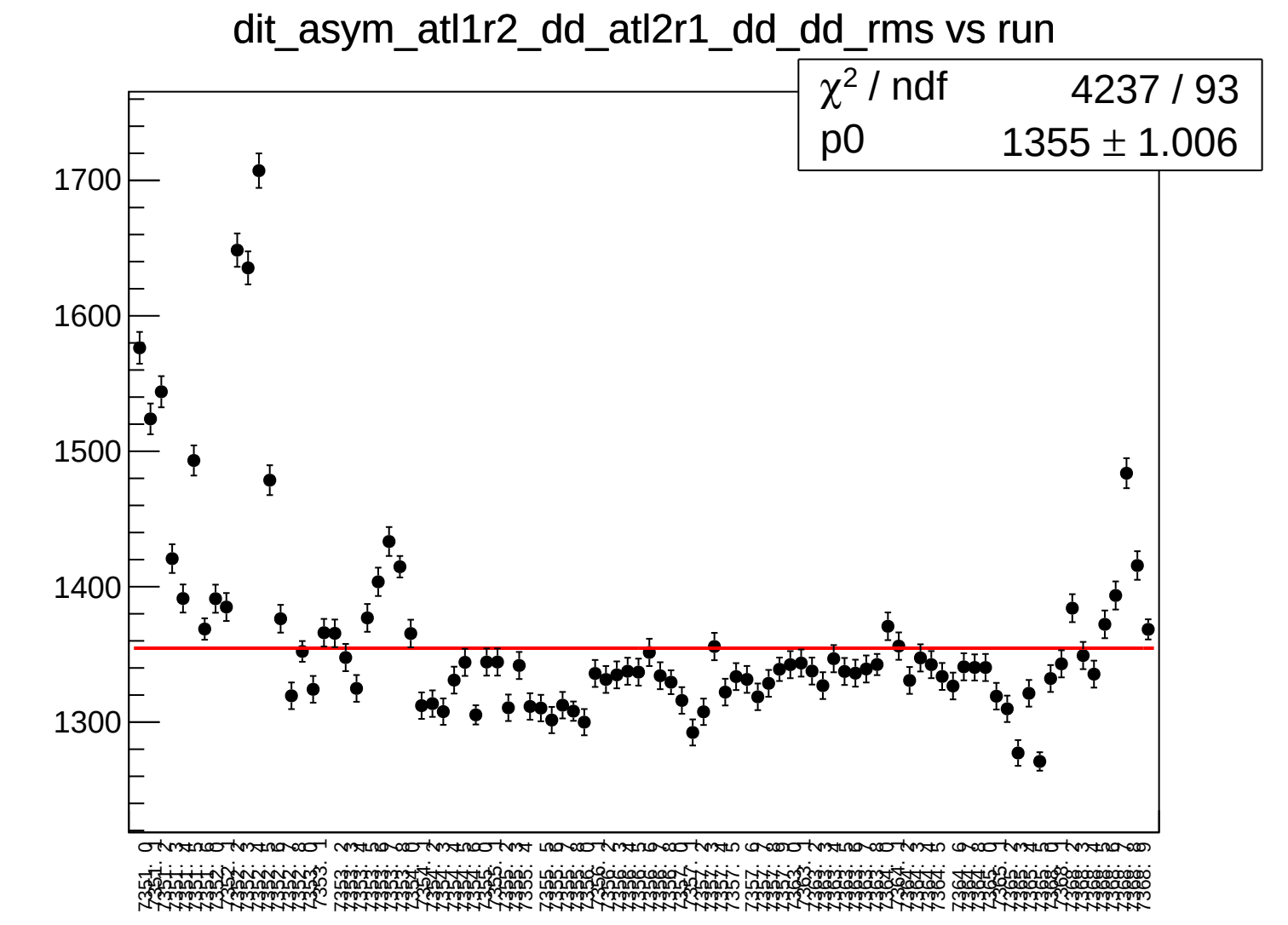

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 76.07 / 93
p0 −5335 ± 5487
150
100
50
0
−50
−100
−150
−200
pull
Entries 94
Mean −105.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

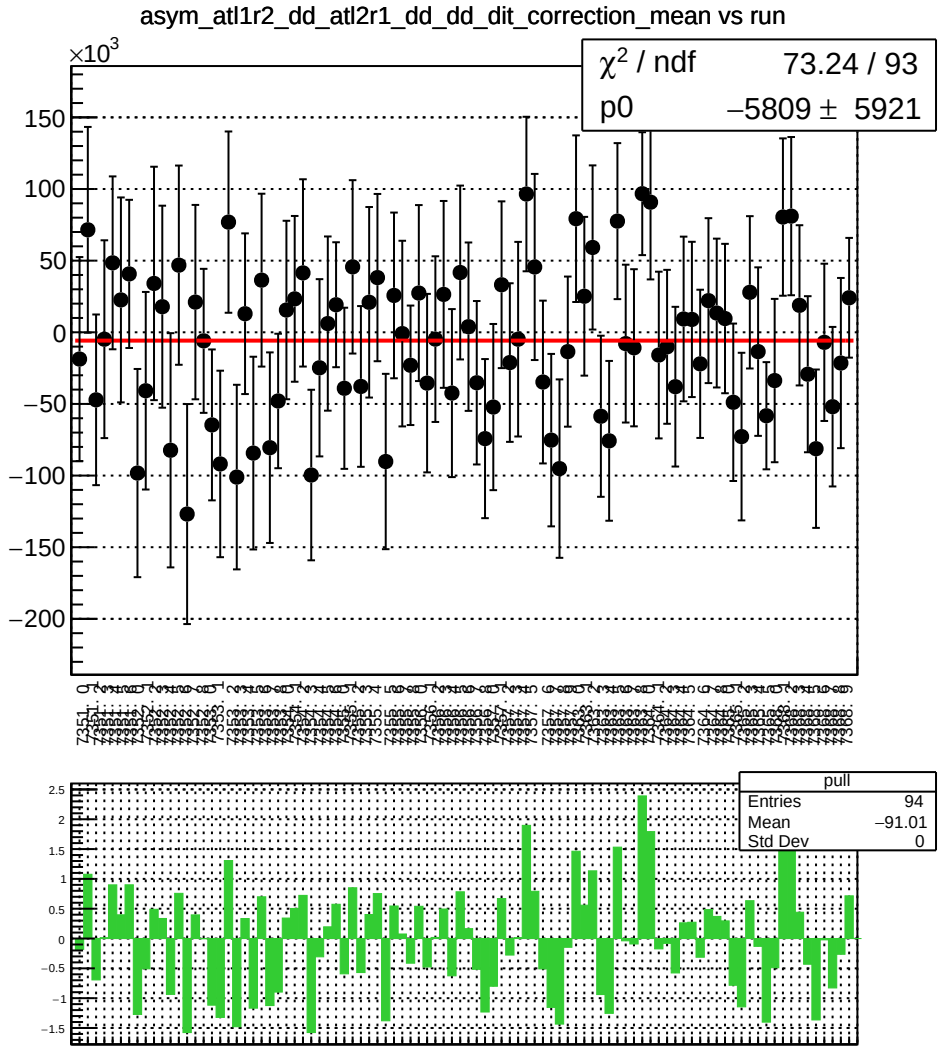

pull1D
Entries 94
Mean −0.01274
Std Dev 0.8995
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

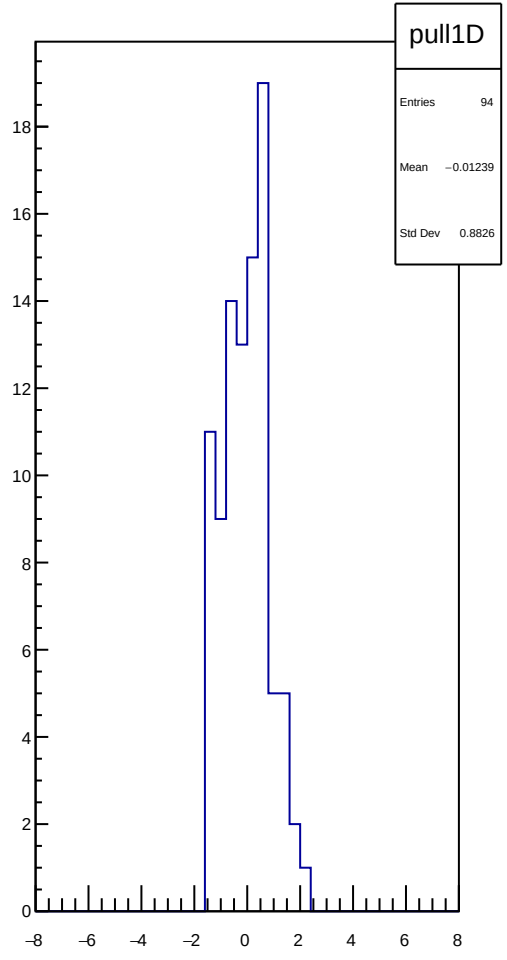

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.576e+04 / 93
p0 5209 ± 3.88
7500
7000
6500
6000
5500
5000
4500

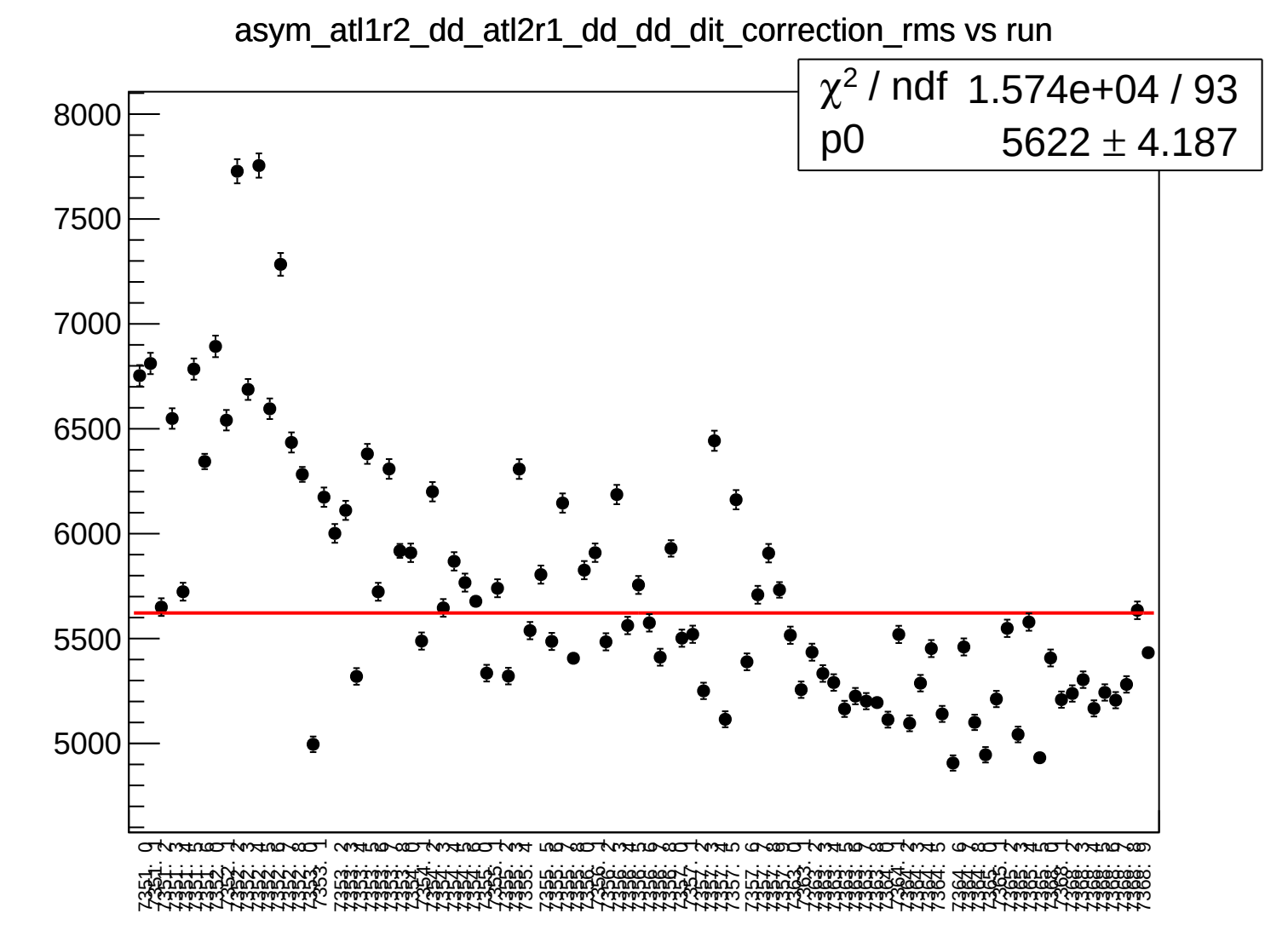

dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 93.24 / 93
p0 −21.17 ± 1422
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −92.14
Std Dev 0
2
1
0
−1
−2

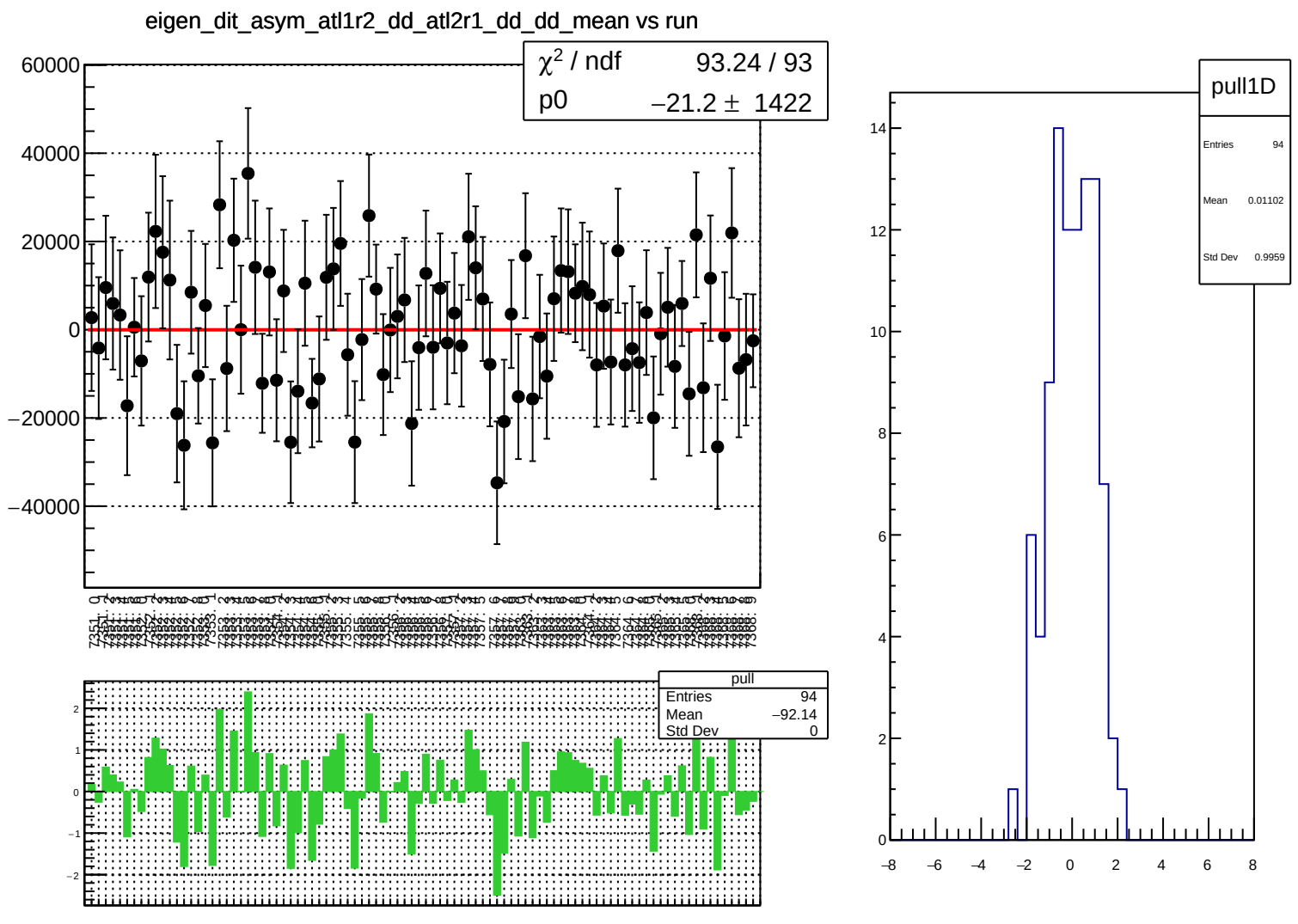

pull1D
Entries 94
Mean 0.01102
Std Dev 0.9959
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

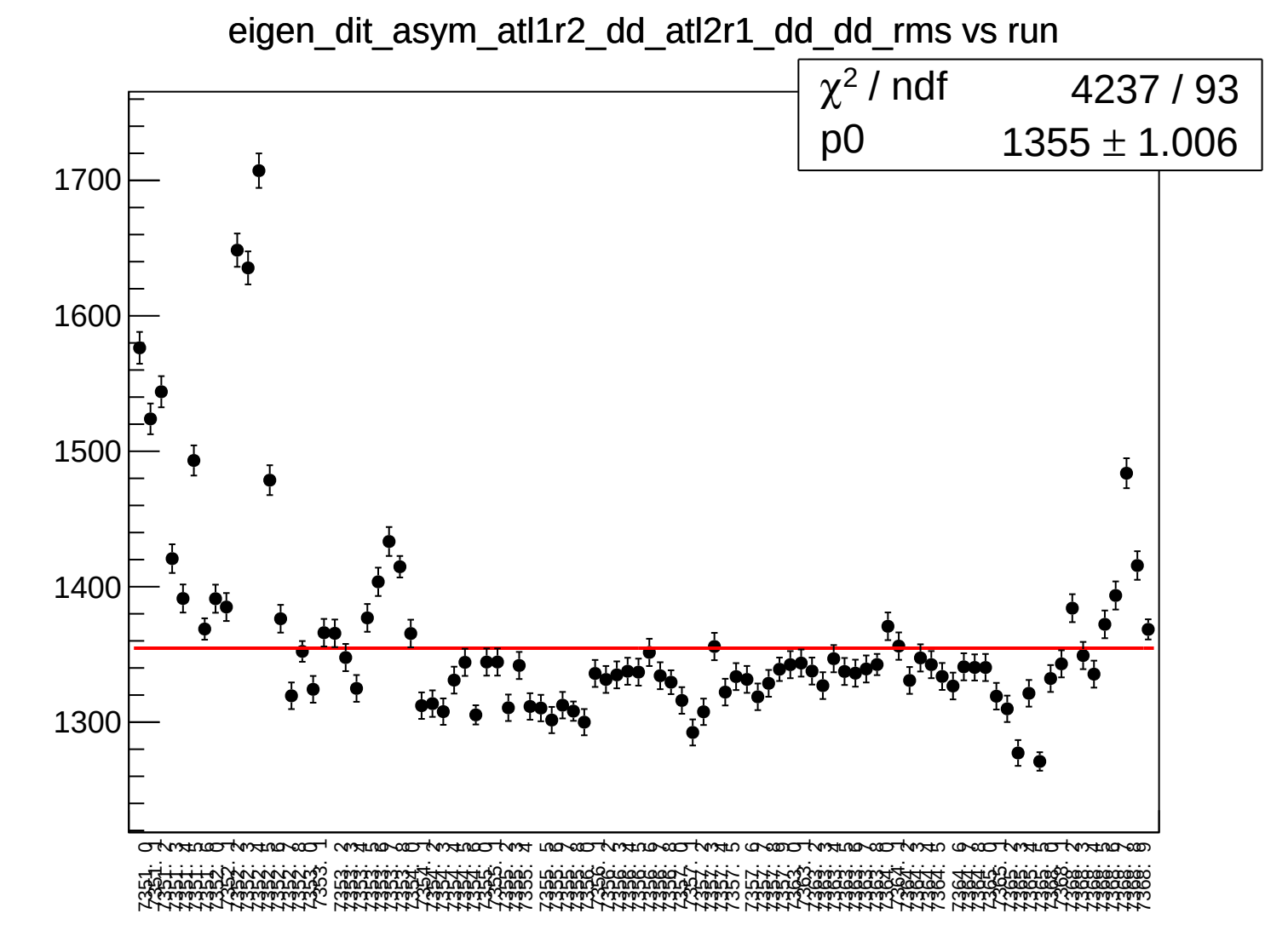

dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 4237 / 93
p0 1355 ± 1.006
1700
1600
1500
1400
1300

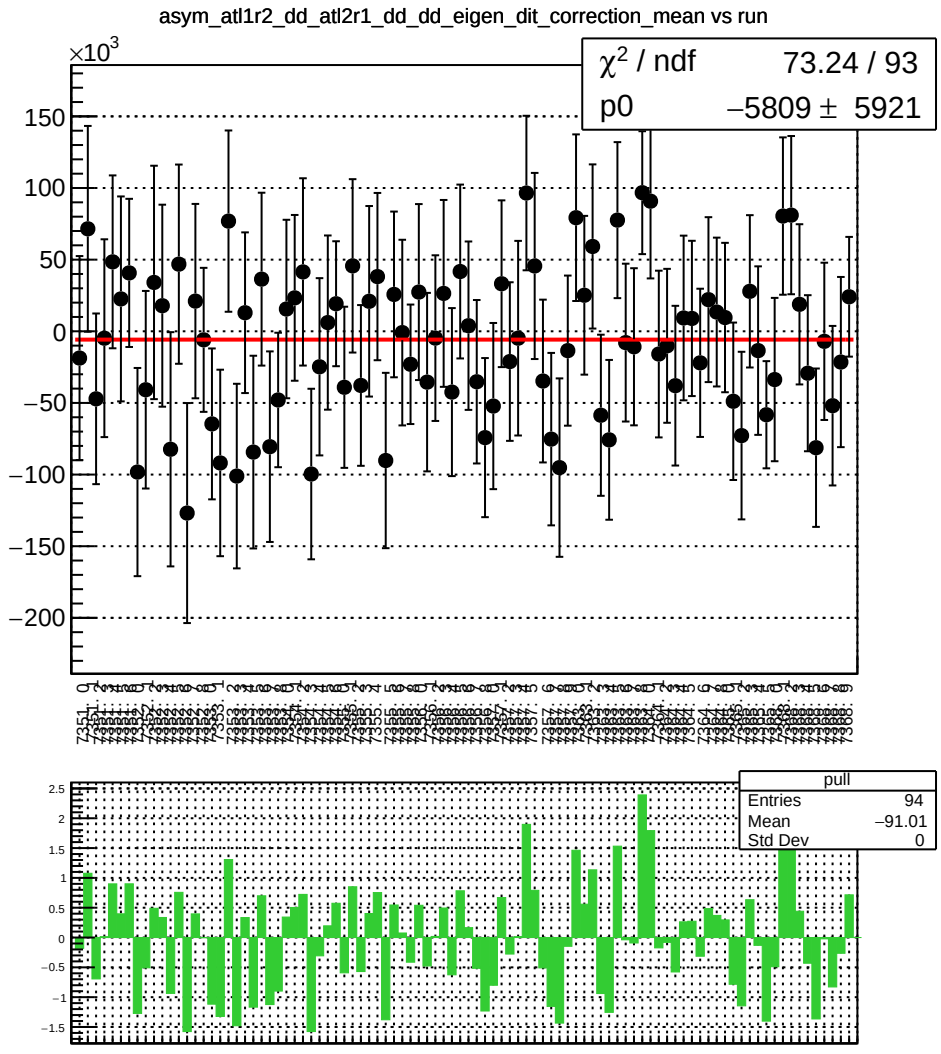

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_mean vs run
×10^3
χ² / ndf 73.24 / 93
p0 −5809 ± 5921
150
100
50
0
−50
−100
−150
−200
pull
Entries 94
Mean −91.01
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

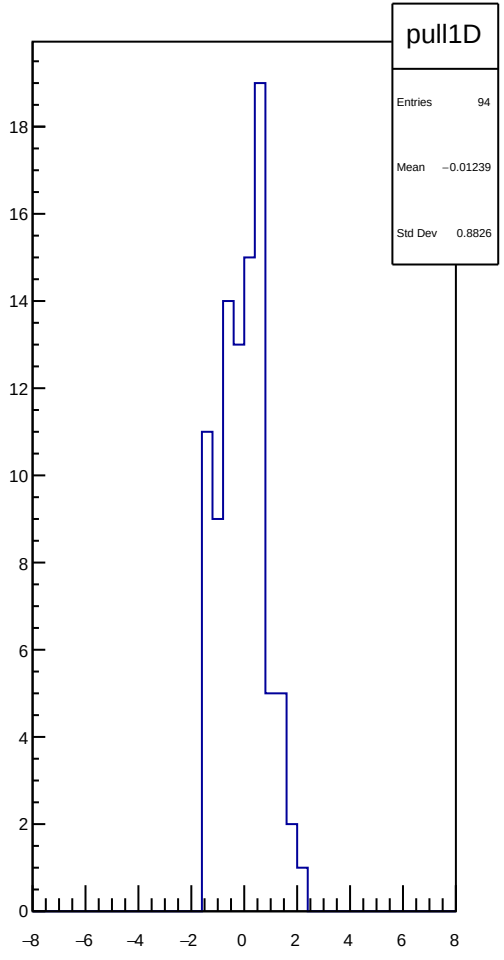

pull1D
Entries 94
Mean −0.01239
Std Dev 0.8826
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

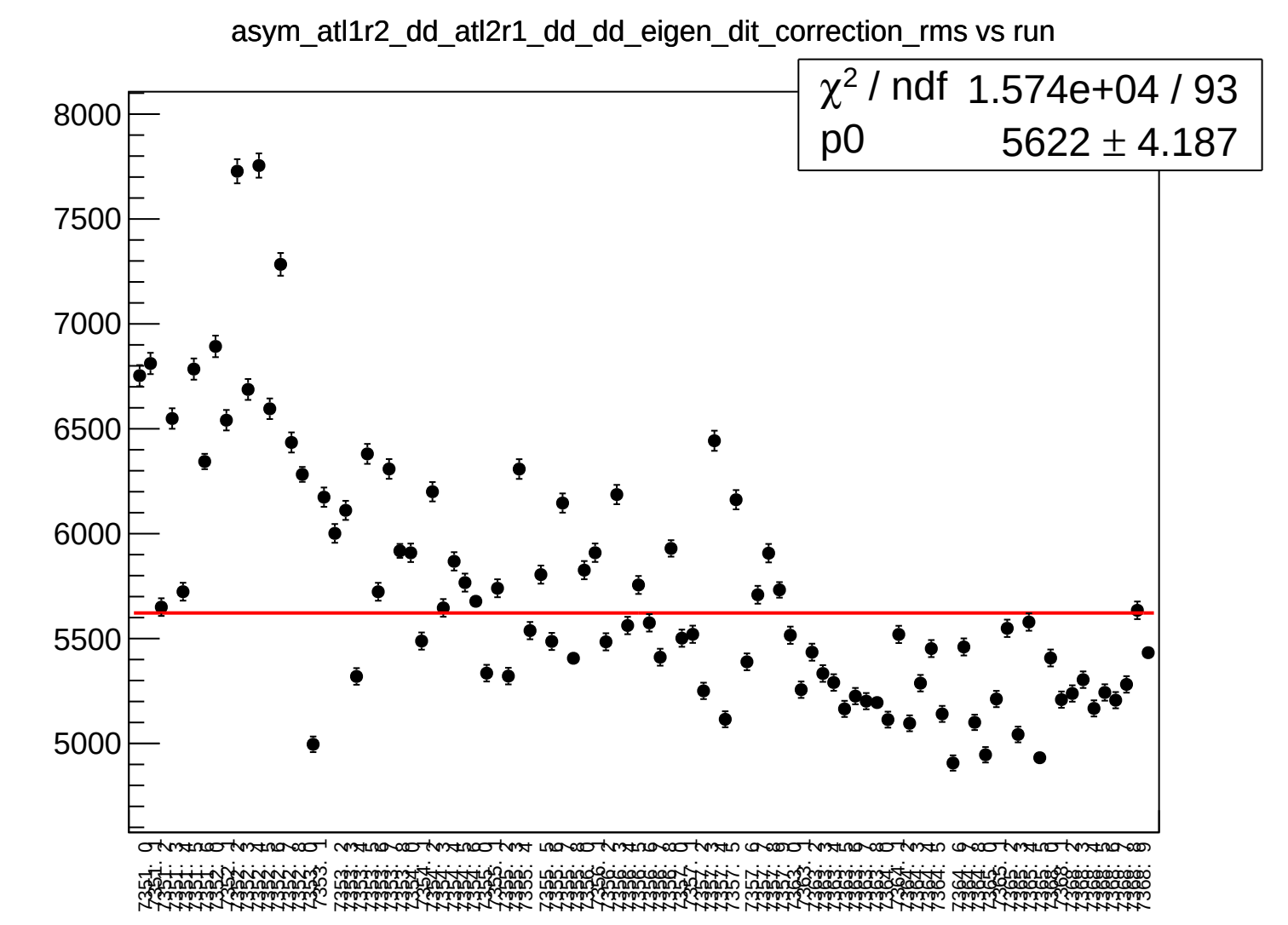

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_rms vs run
χ² / ndf 1.574e+04 / 93
p0 5622 ± 4.187
8000
7500
7000
6500
6000
5500
5000

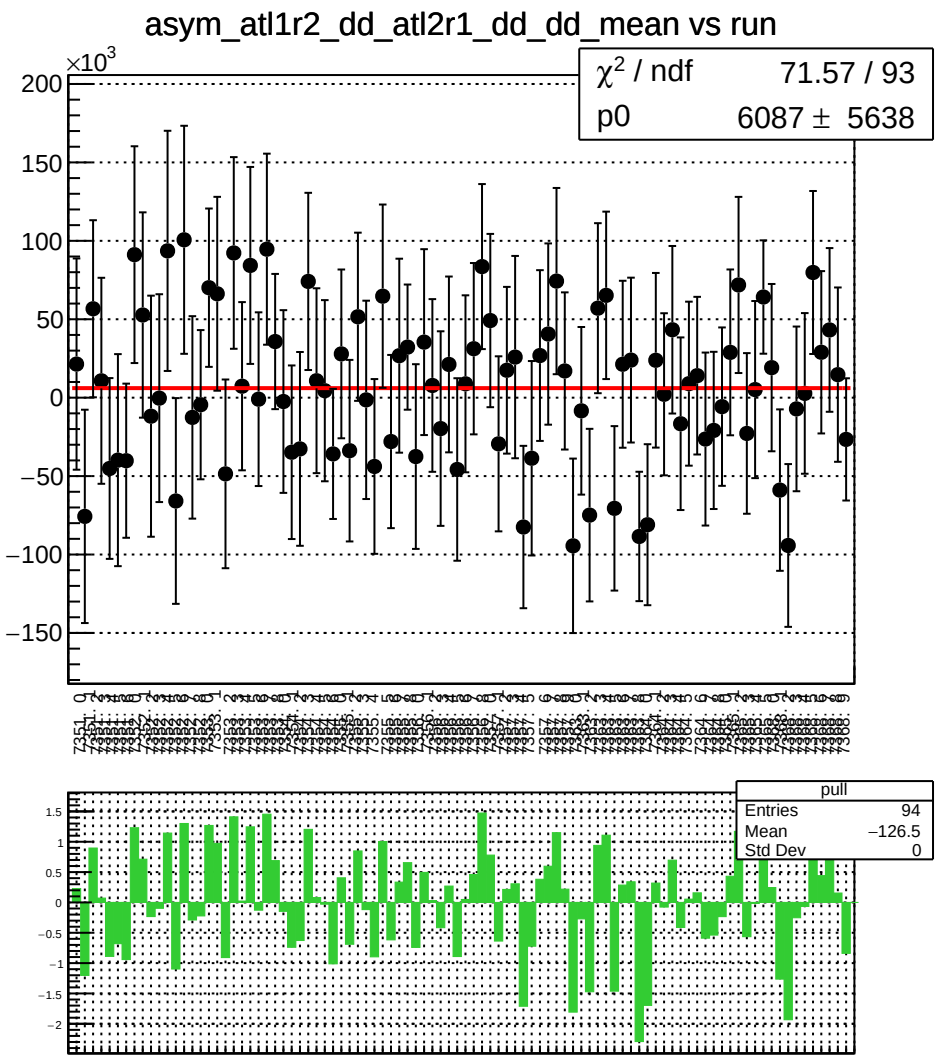

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 93.24 / 93
p0 −21.2 ± 1422
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −92.14
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.01102
Std Dev 0.9959
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

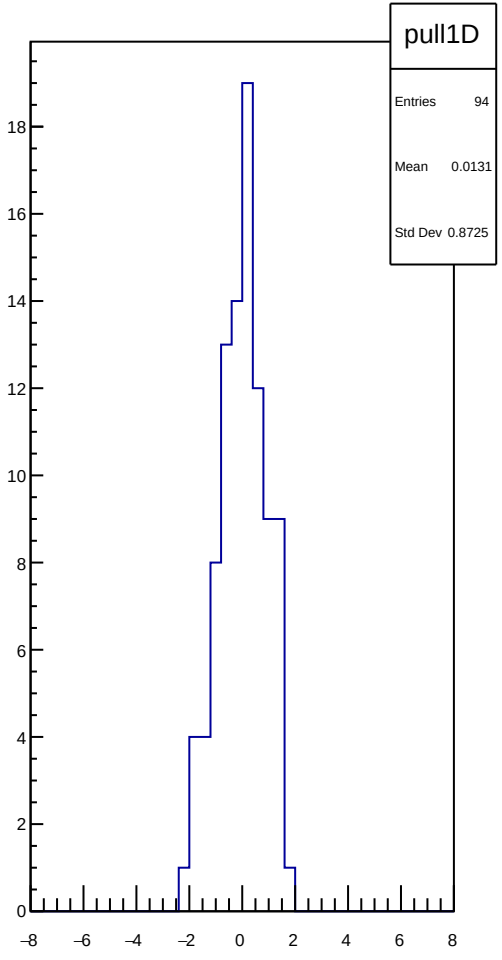

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 4237 / 93
p0 1355 ± 1.006
1700
1600
1500
1400
1300

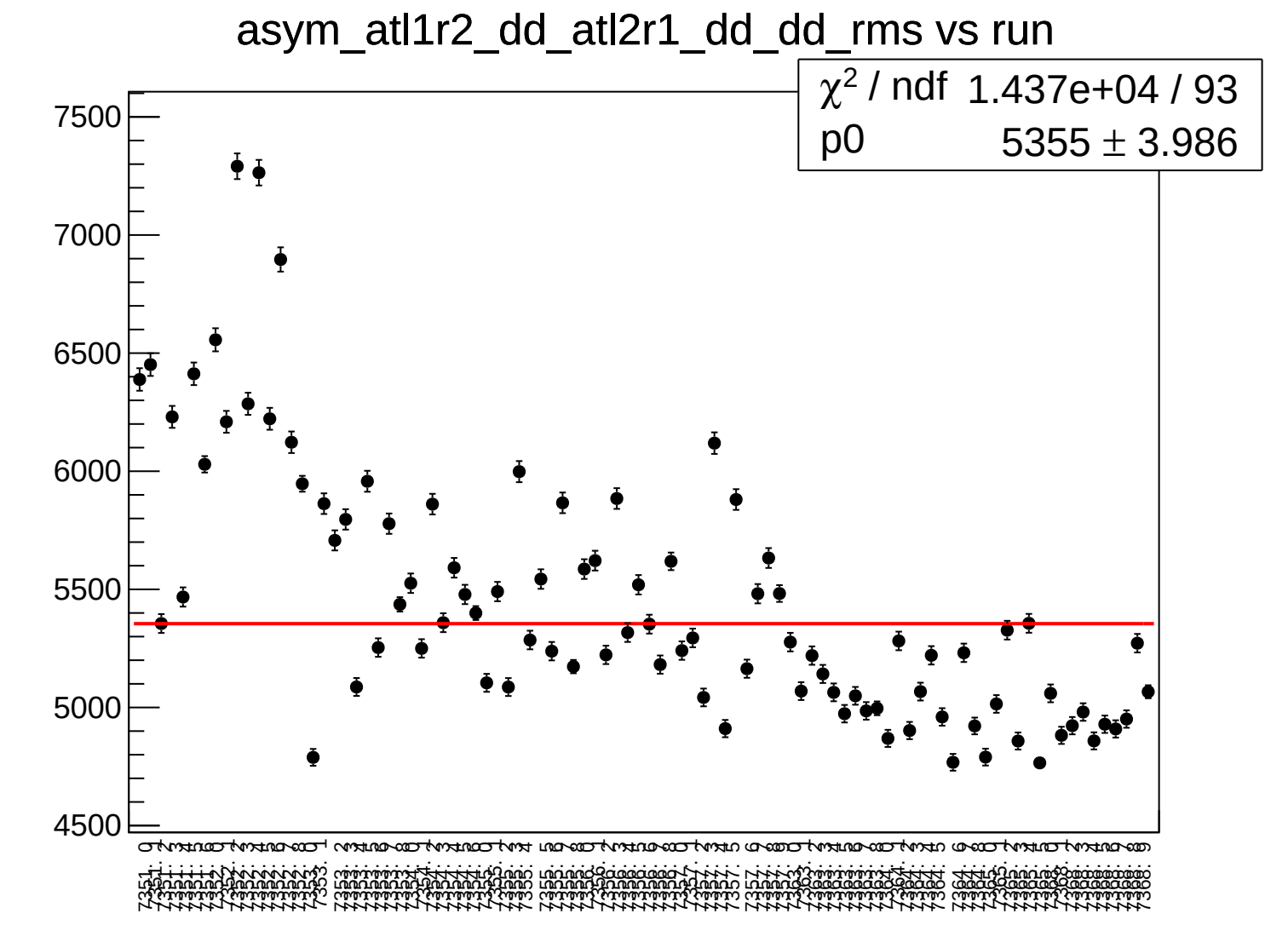

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 73.24 / 93
p0 −5809 ± 5921
150
100
50
0
−50
−100
−150
−200
pull
Entries 94
Mean −91.01
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

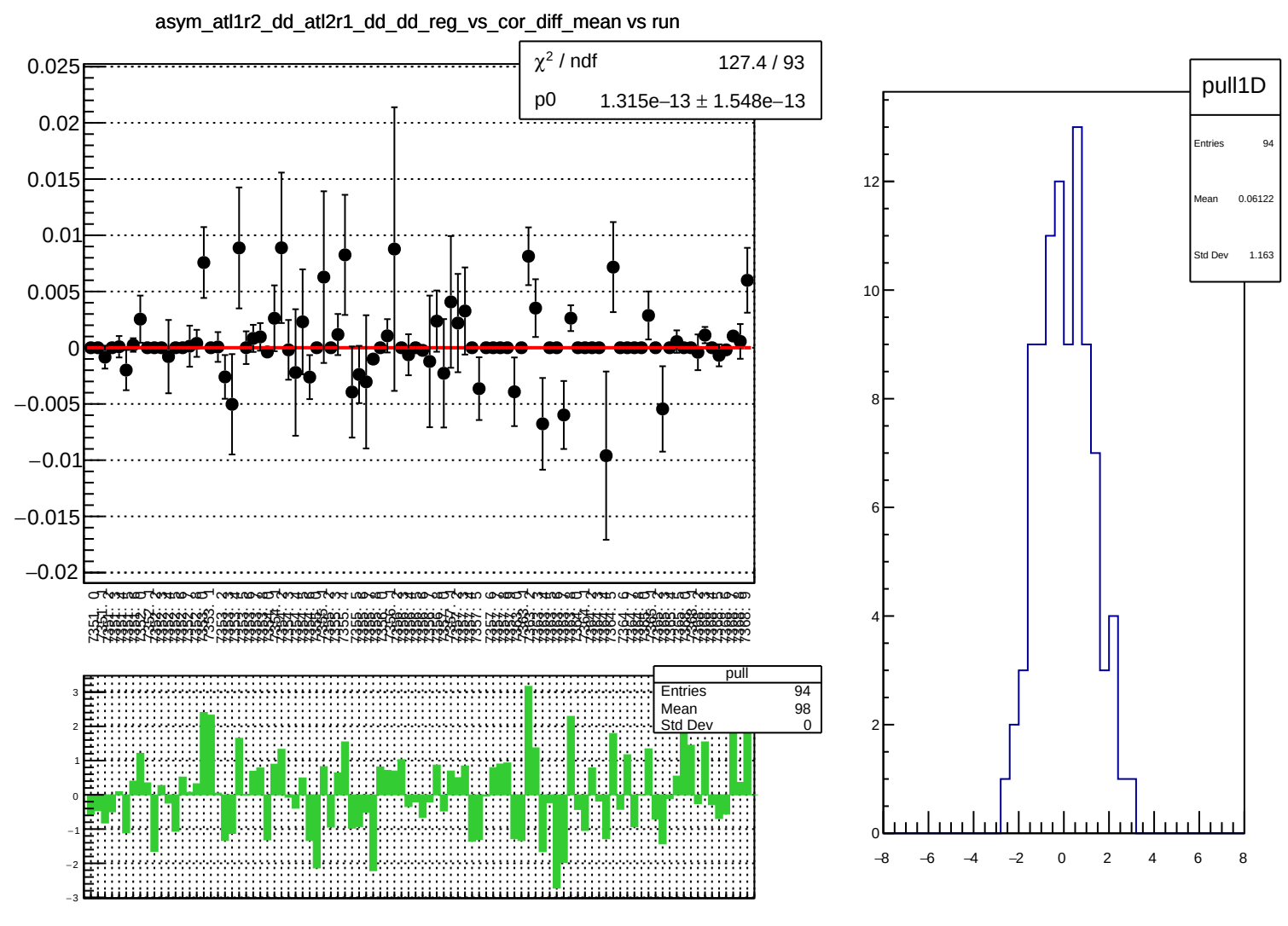

pull1D
Entries 94
Mean −0.01239
Std Dev 0.8826
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

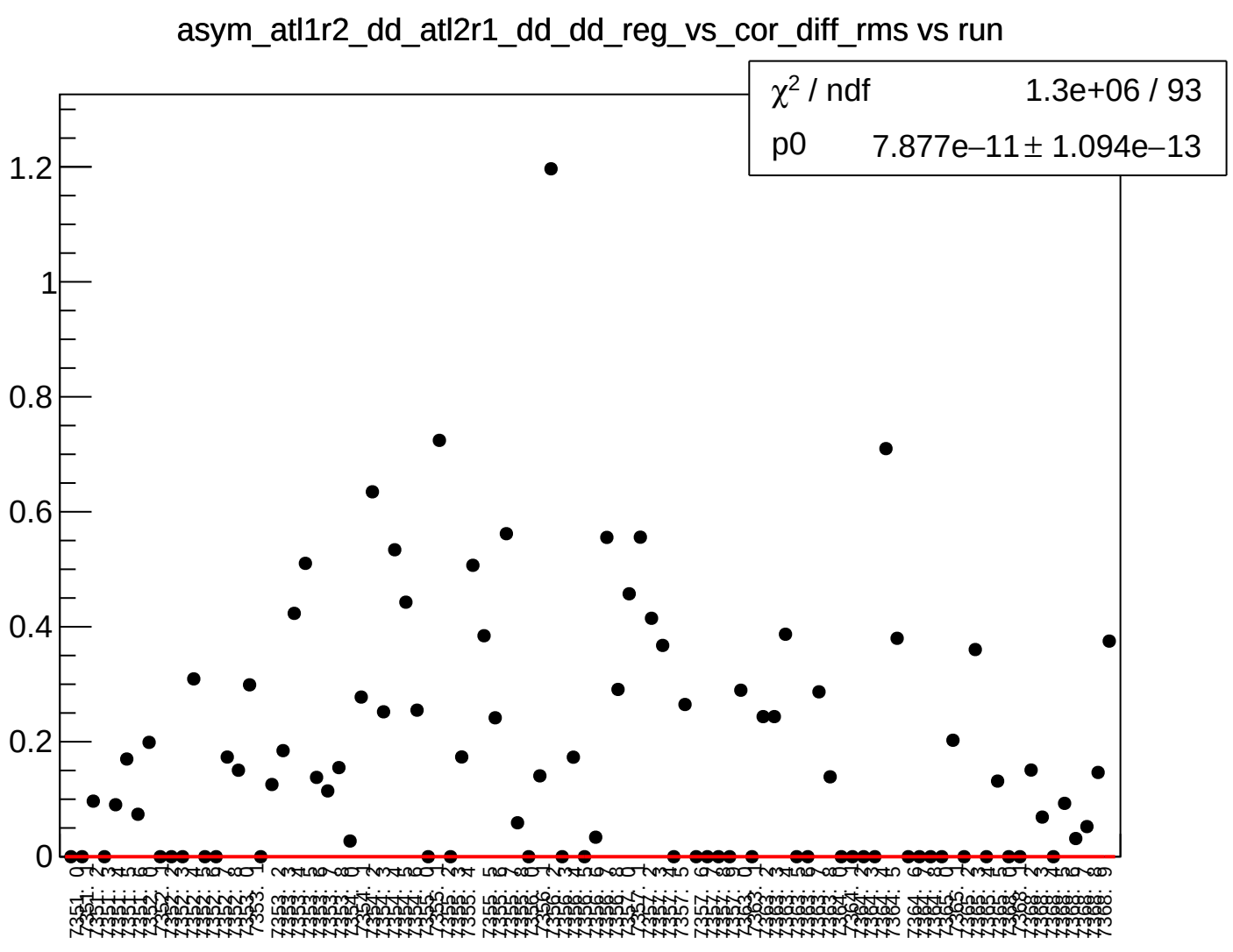

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.574e+04 / 93
p0 5622 ± 4.187
8000
7500
7000
6500
6000
5500
5000

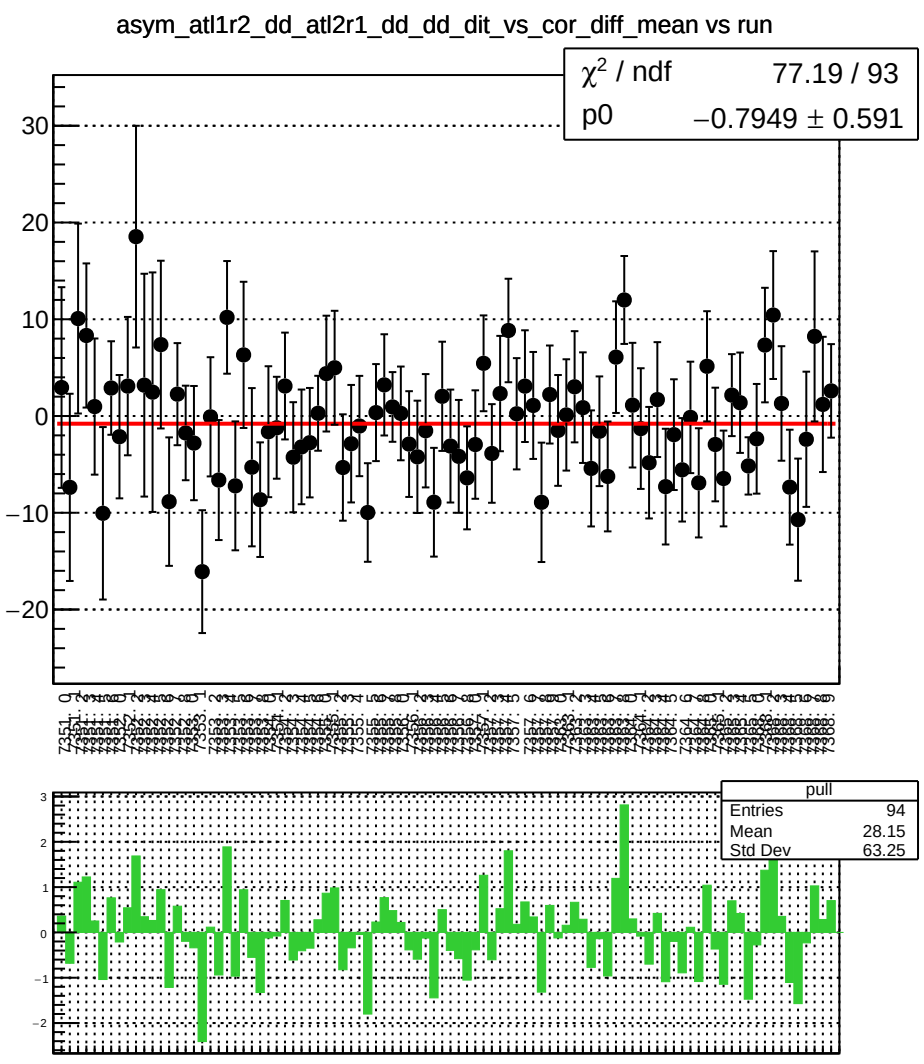

asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
×10^3
χ² / ndf 71.57 / 93
p0 6087 ± 5638
200
150
100
50
0
−50
−100
−150
pull
Entries 94
Mean −126.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

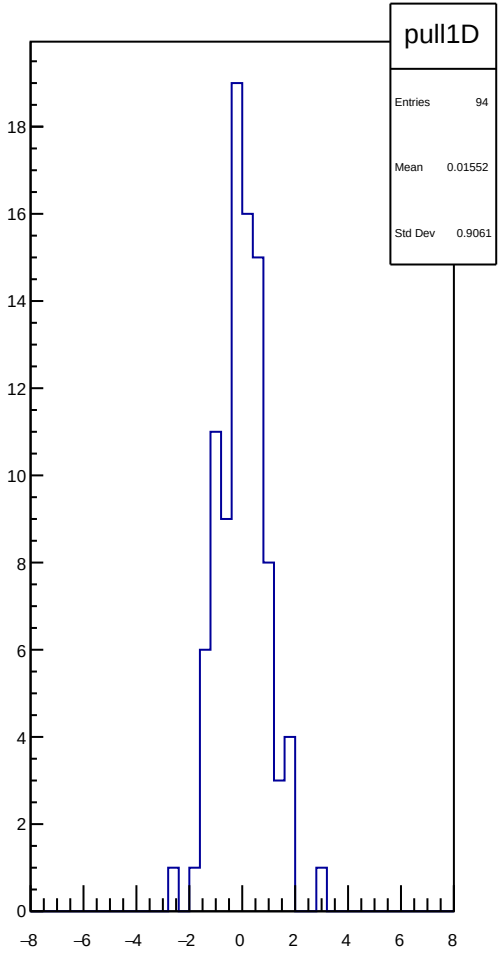

pull1D
Entries 94
Mean 0.0131
Std Dev 0.8725
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

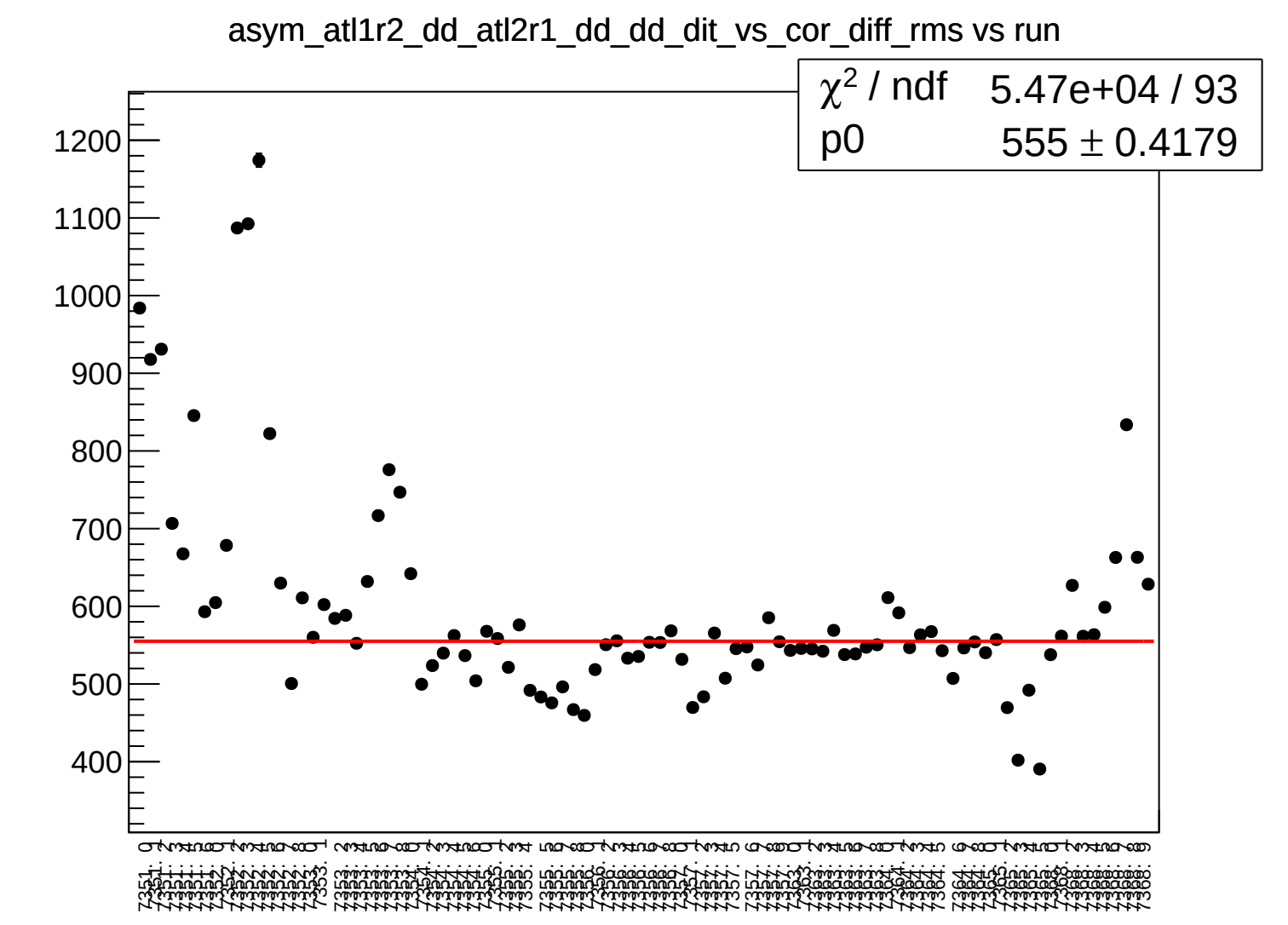

asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 1.437e+04 / 93
p0 5355 ± 3.986
7500
7000
6500
6000
5500
5000
4500

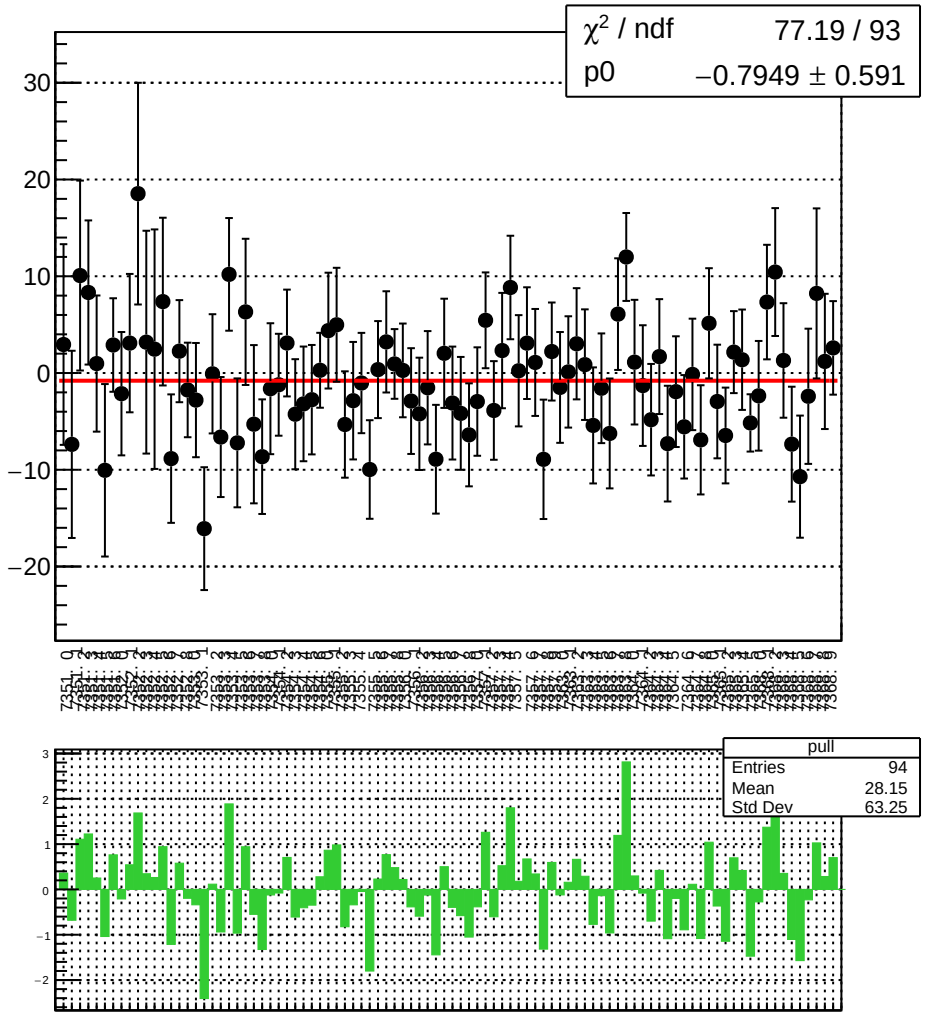

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 127.4 / 93
p0 1.315e−13 ± 1.548e−13
pull
Entries 94
Mean 98
Std Dev 0
pull1D
Entries 94
Mean 0.06122
Std Dev 1.163

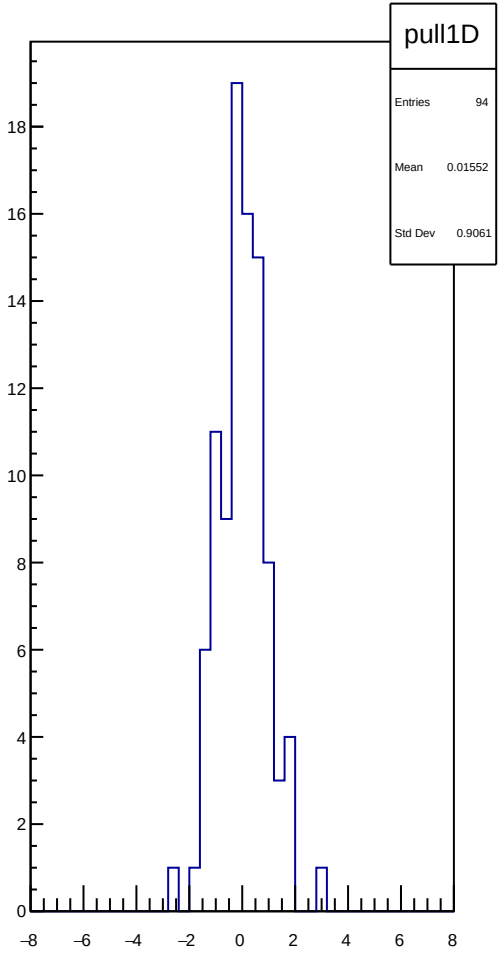

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.3e+06 / 93
p0 7.877e−11 ± 1.094e−13
1.2
1
0.8
0.6
0.4
0.2
0

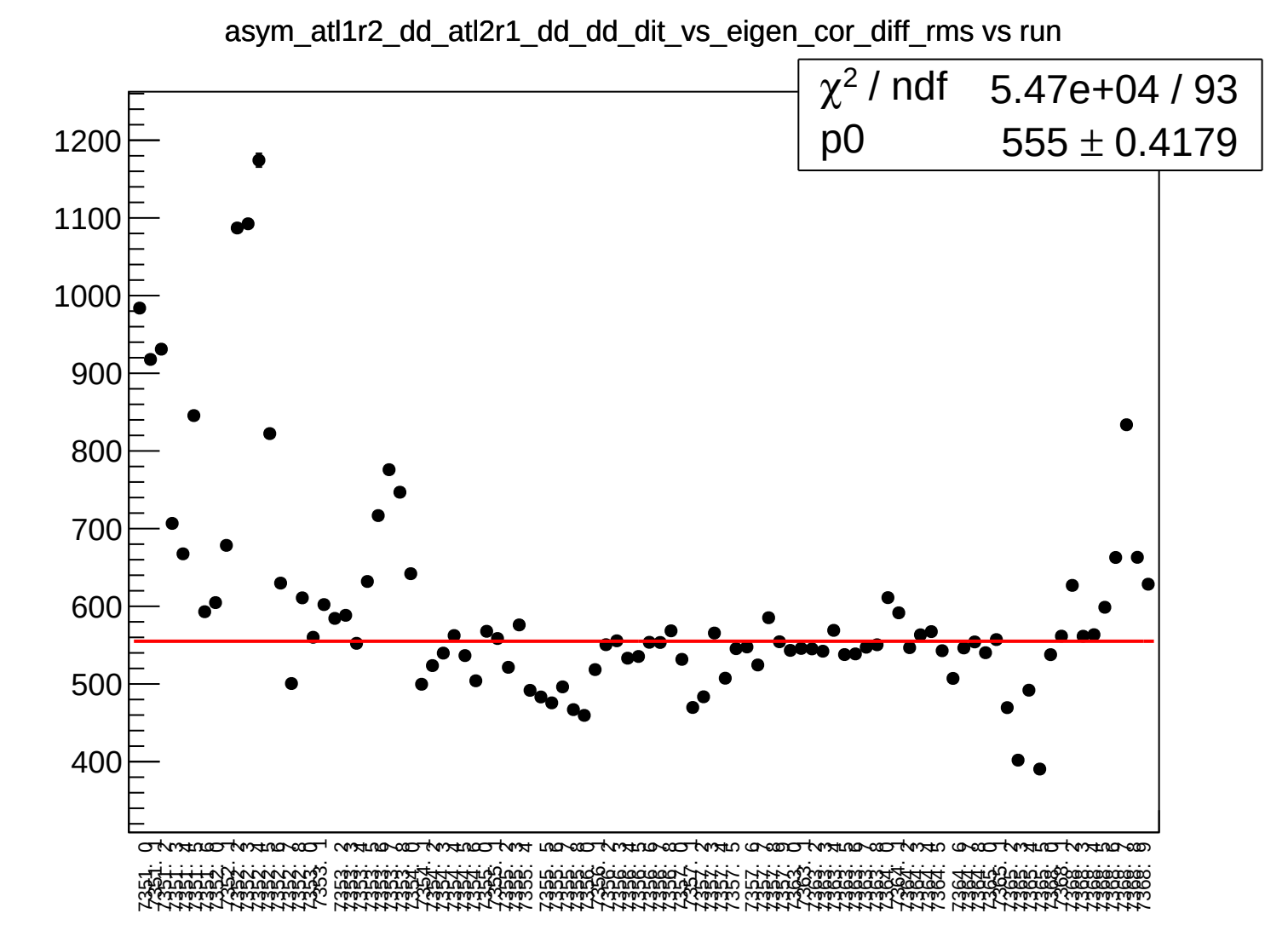

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 77.19 / 93
p0 −0.7949 ± 0.591
pull
Entries 94
Mean 28.15
Std Dev 63.25

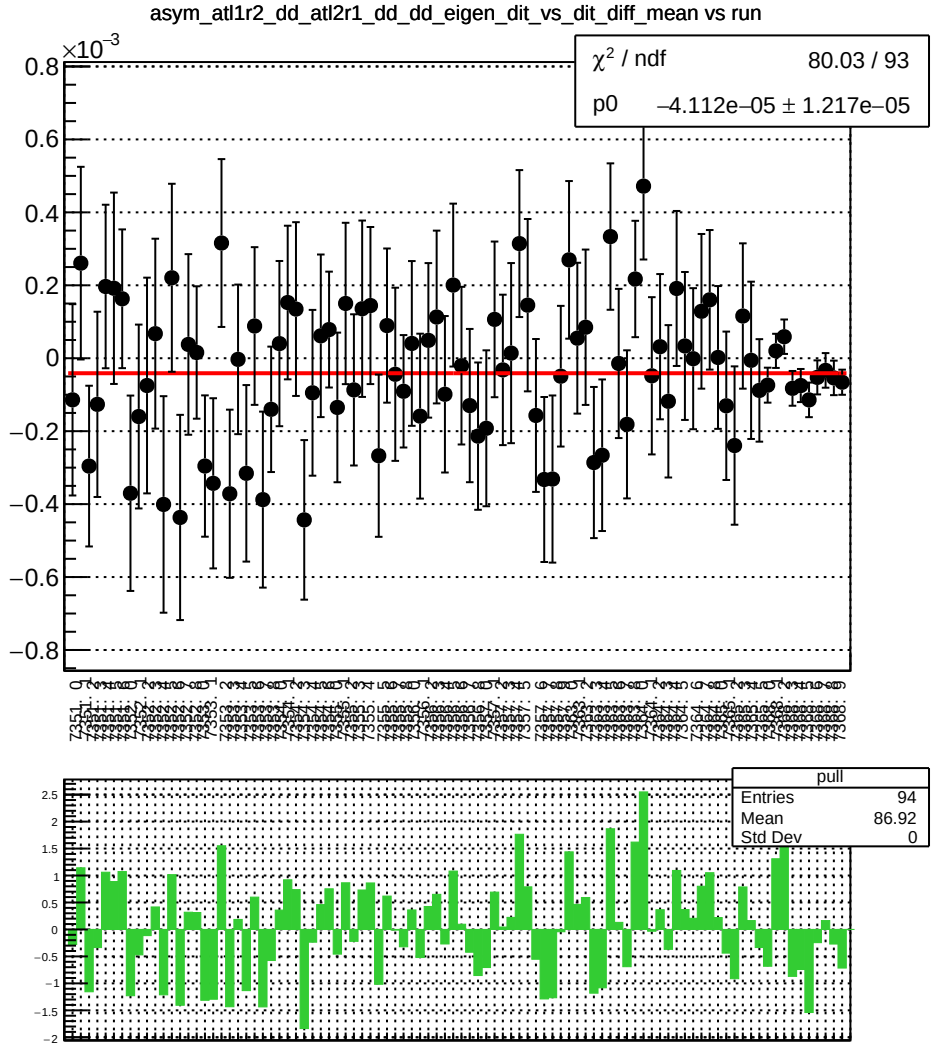

pull1D
Entries 94
Mean 0.01552
Std Dev 0.9061

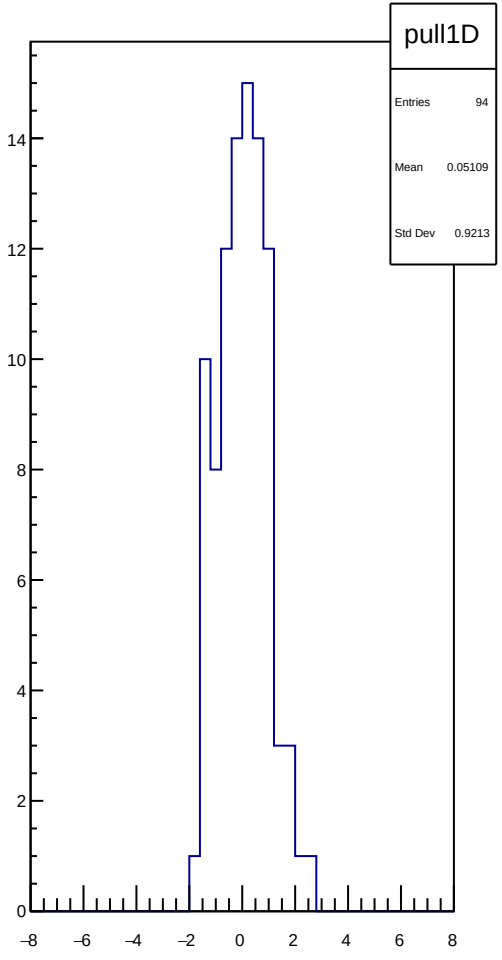

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.47e+04 / 93
p0 555 ± 0.4179
1200
1100
1000
900
800
700
600
500
400

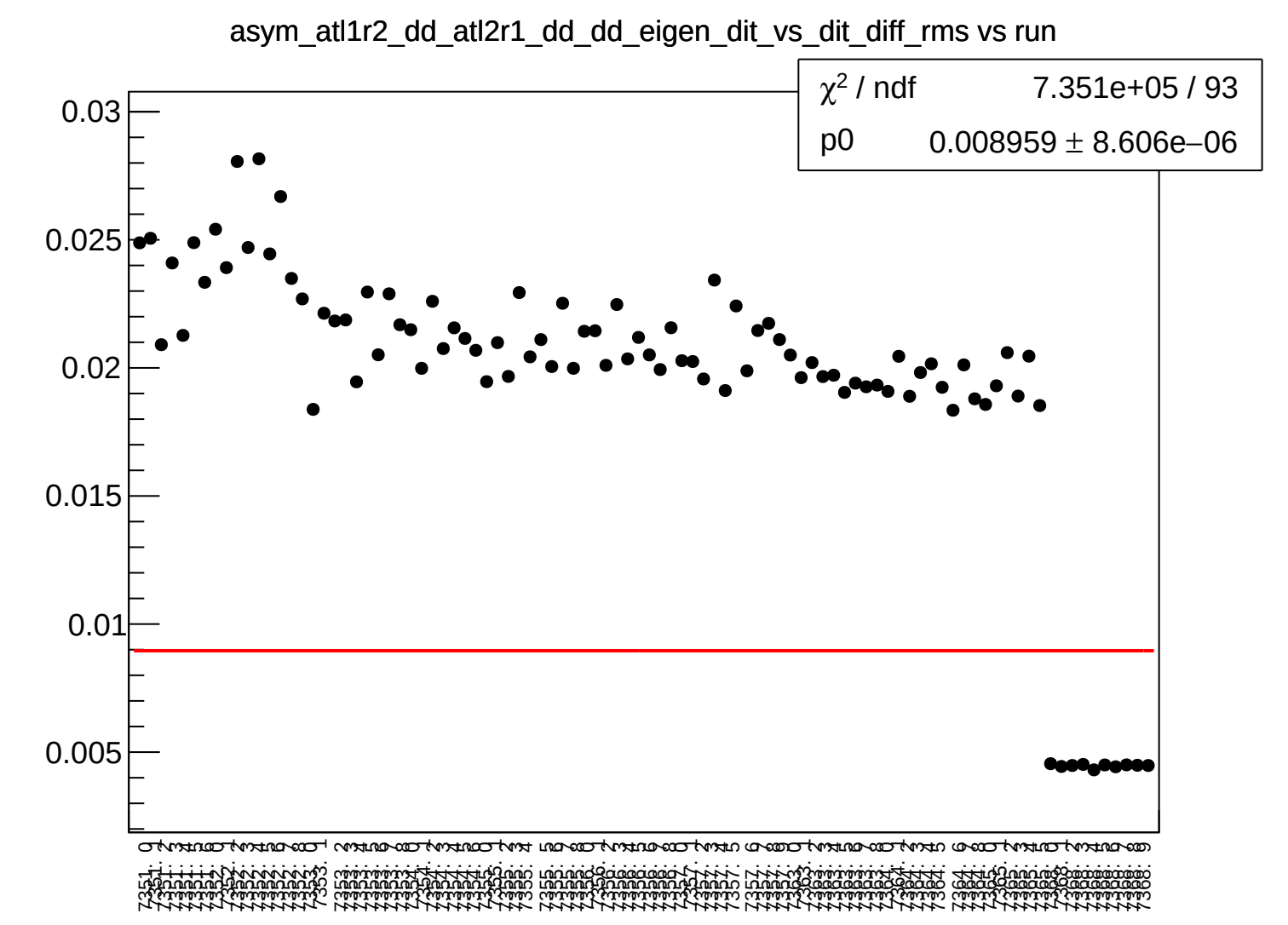

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.19 / 93
p0 −0.7949 ± 0.591
pull
Entries 94
Mean 28.15
Std Dev 63.25

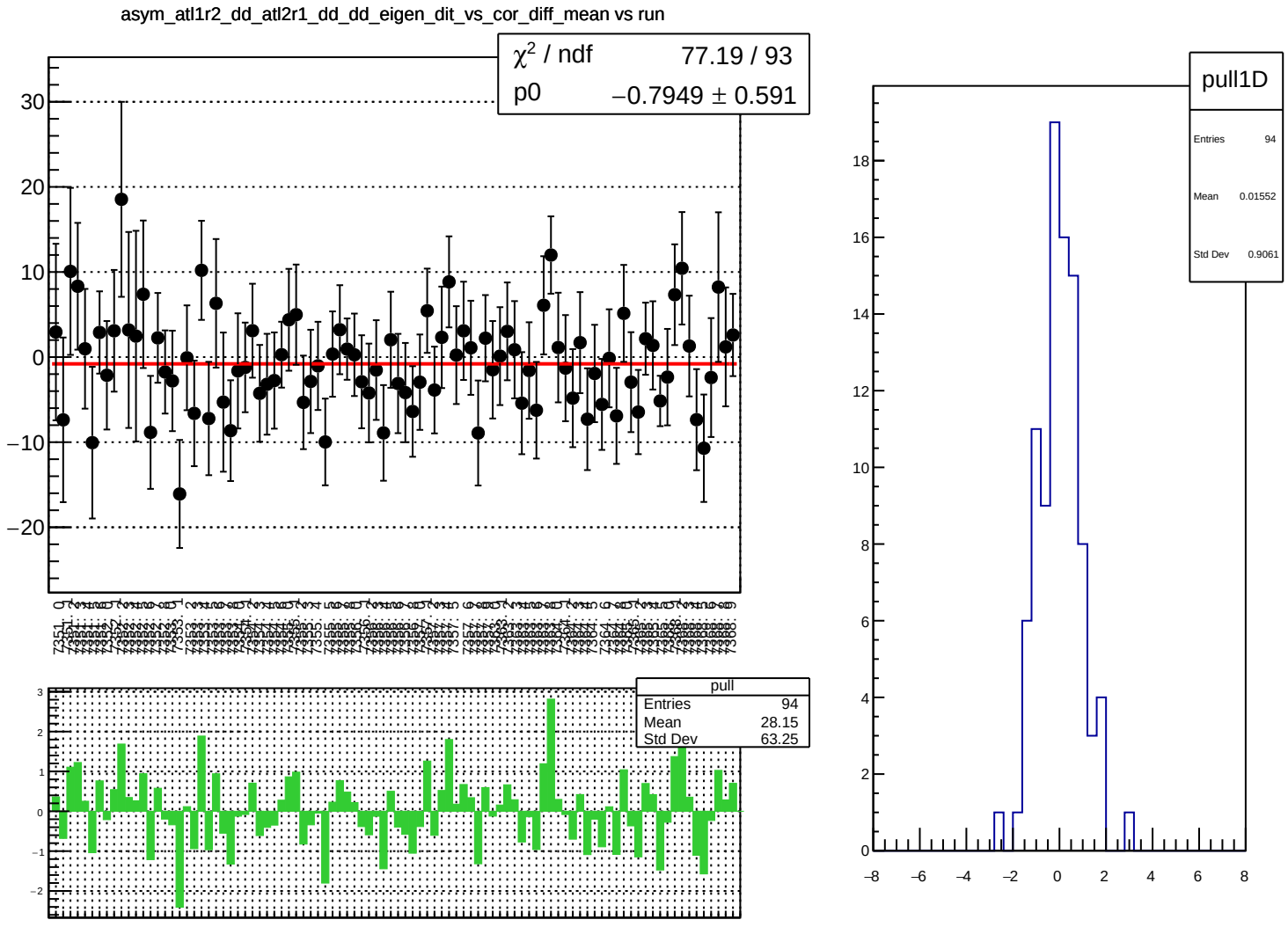

pull1D
Entries 94
Mean 0.01552
Std Dev 0.9061

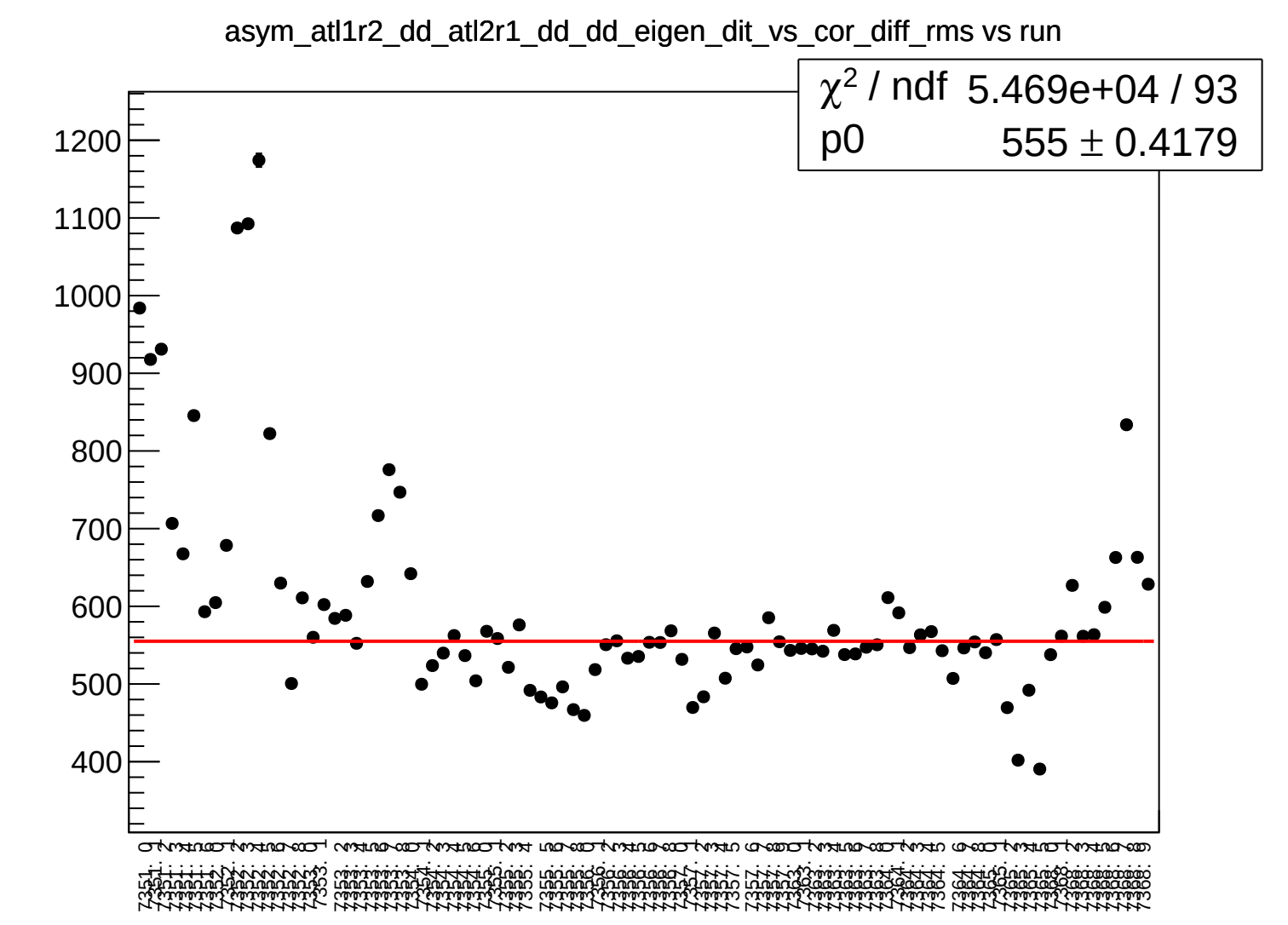

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.47e+04 / 93
p0 555 ± 0.4179
1200
1100
1000
900
800
700
600
500
400

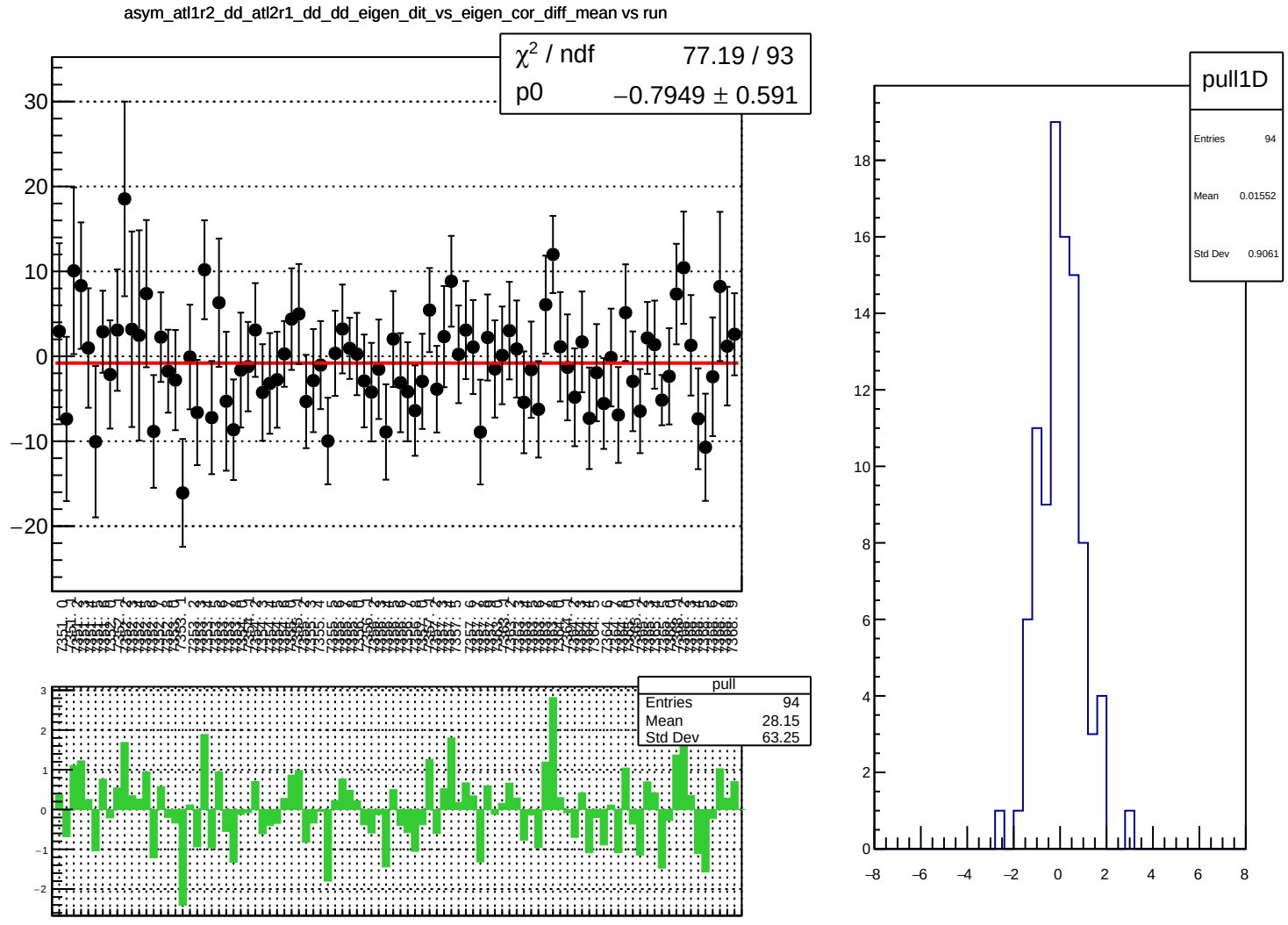

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 80.03 / 93
p0 −4.112e−05 ± 1.217e−05
pull
Entries 94
Mean 86.92
Std Dev 0

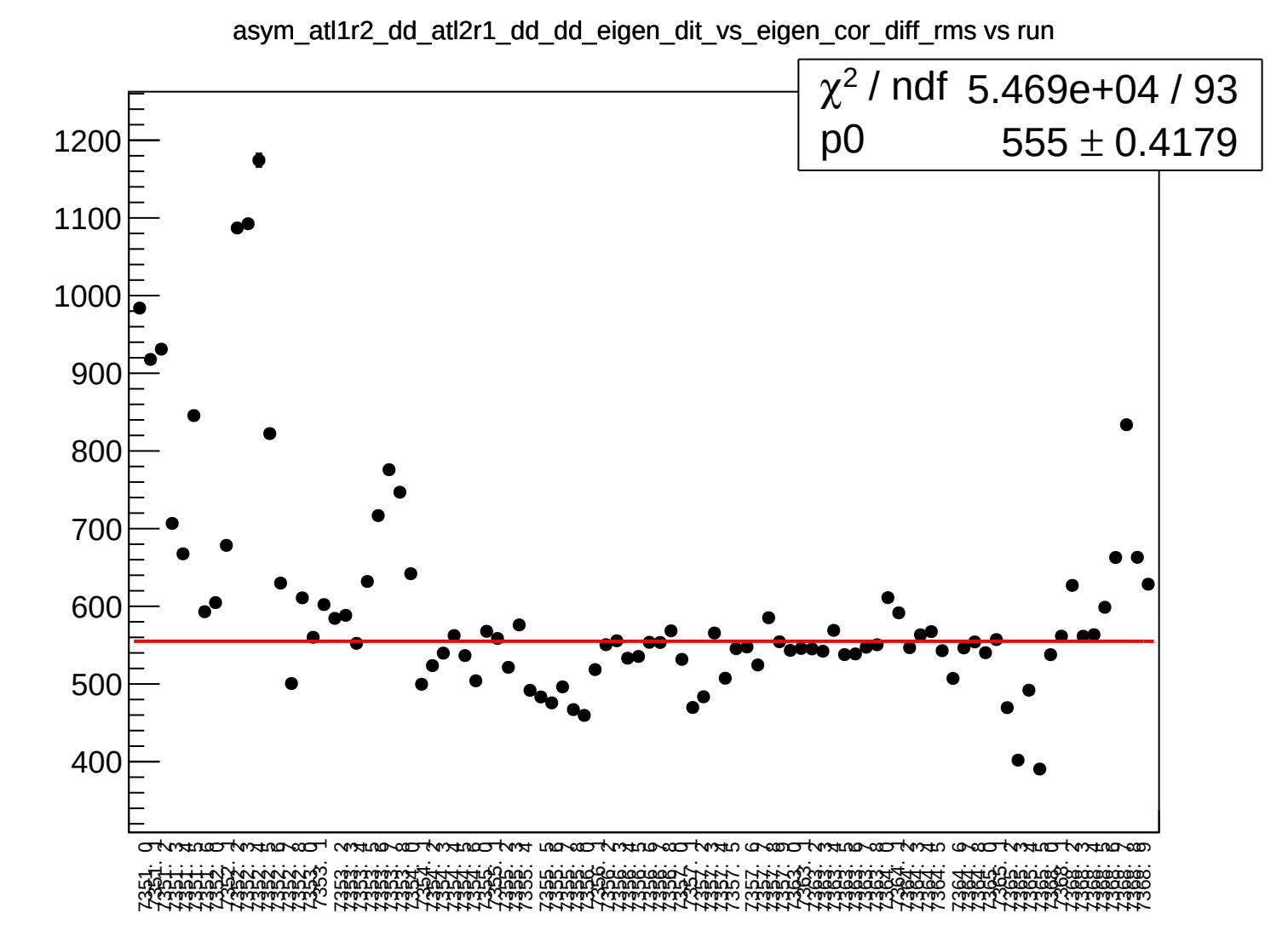

pull1D
Entries 94
Mean 0.05109
Std Dev 0.9213

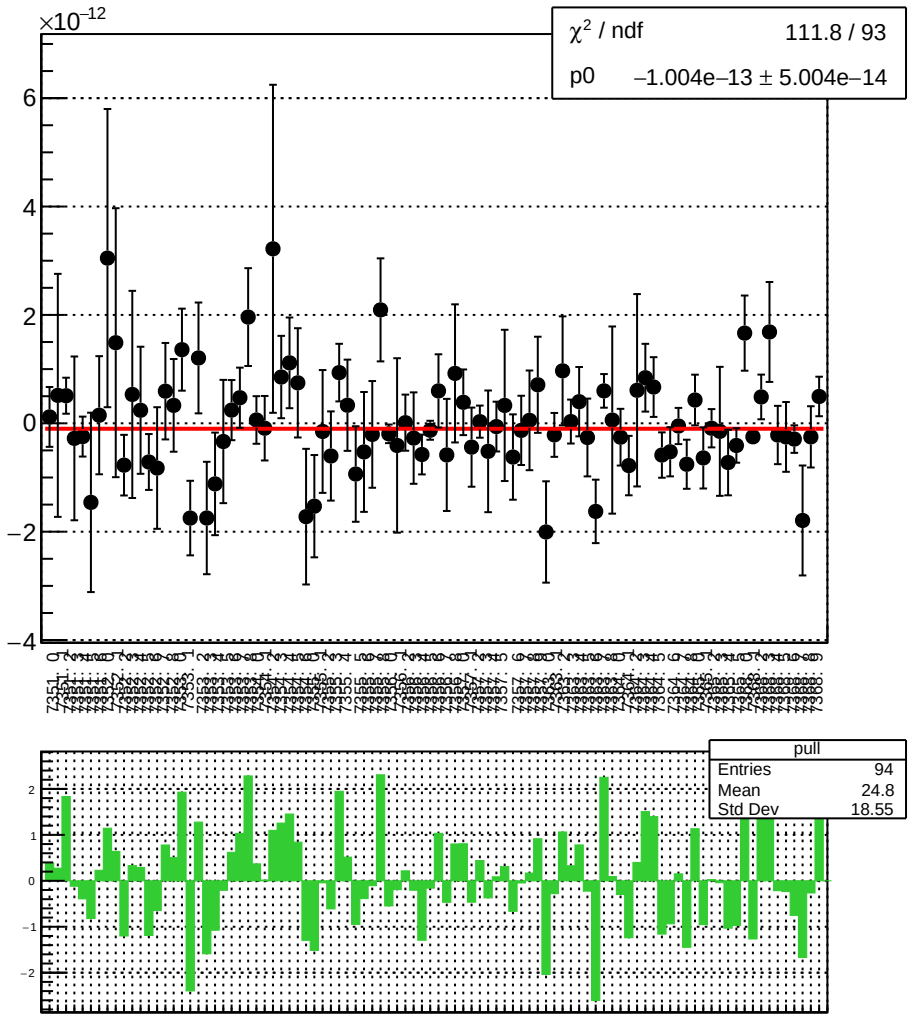

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.351e+05 / 93
p0 0.008959 ± 8.606e−06
0.03
0.025
0.02
0.015
0.01
0.005

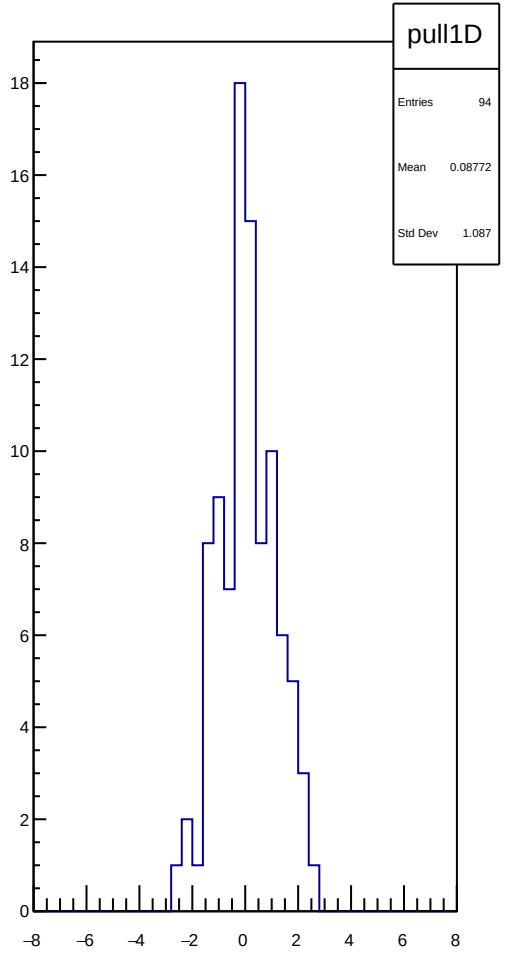

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.19 / 93
p0 −0.7949 ± 0.591
pull
Entries 94
Mean 28.15
Std Dev 63.25
pull1D
Entries 94
Mean 0.01552
Std Dev 0.9061

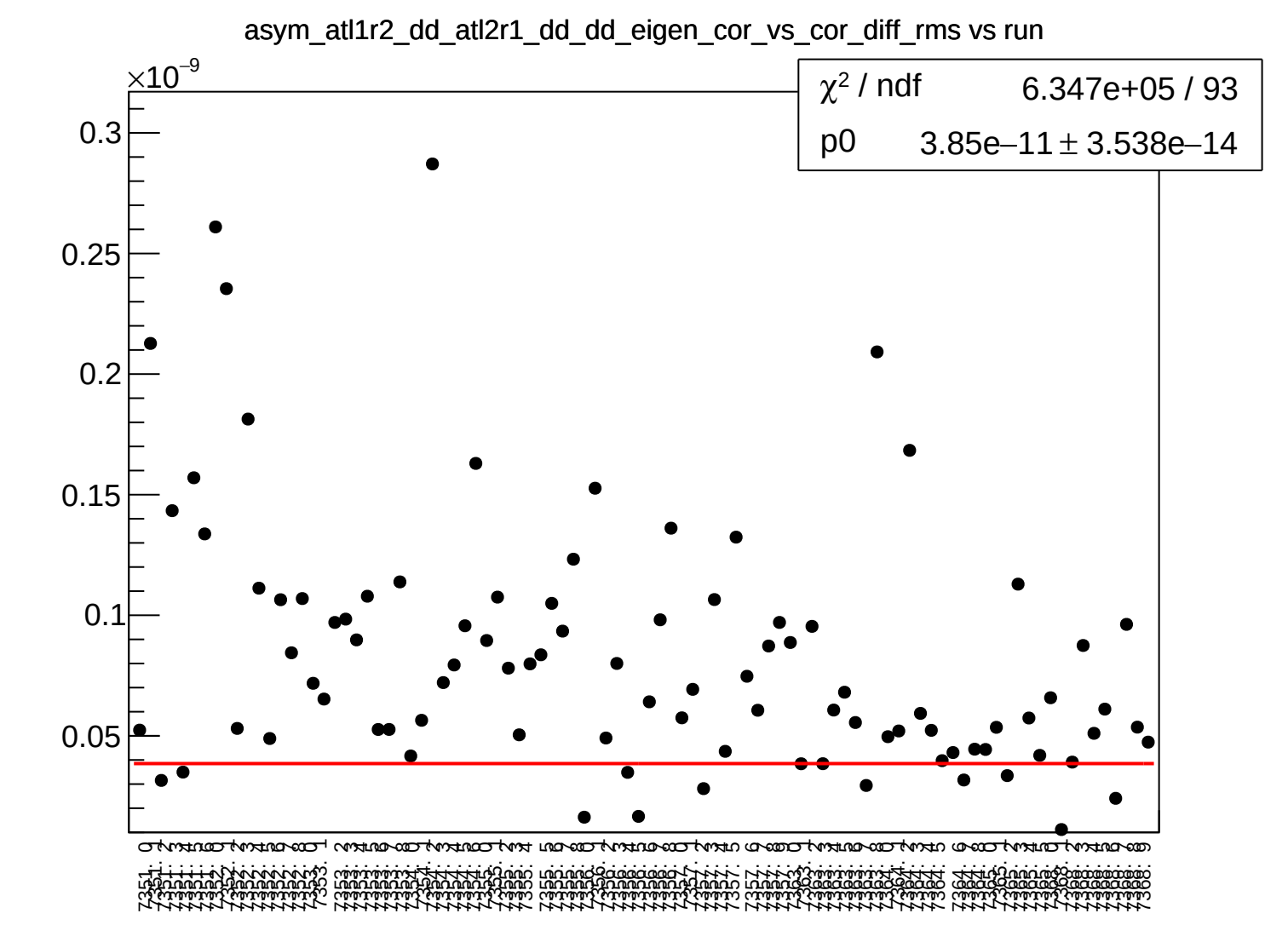

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.469e+04 / 93
p0 555 ± 0.4179
1200
1100
1000
900
800
700
600
500
400

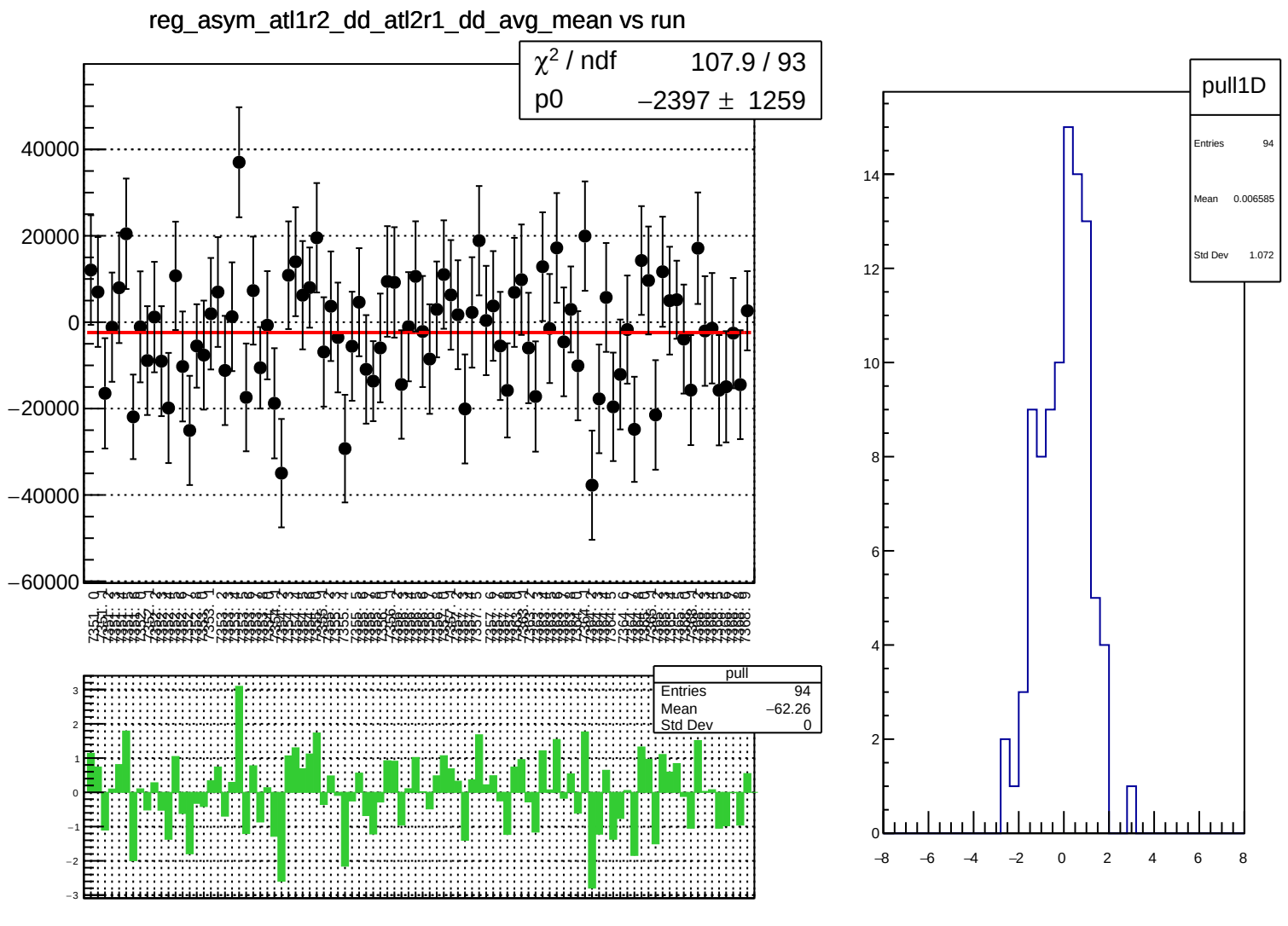

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.19 / 93
p0 −0.7949 ± 0.591
pull
Entries 94
Mean 28.15
Std Dev 63.25
pull1D
Entries 94
Mean 0.01552
Std Dev 0.9061

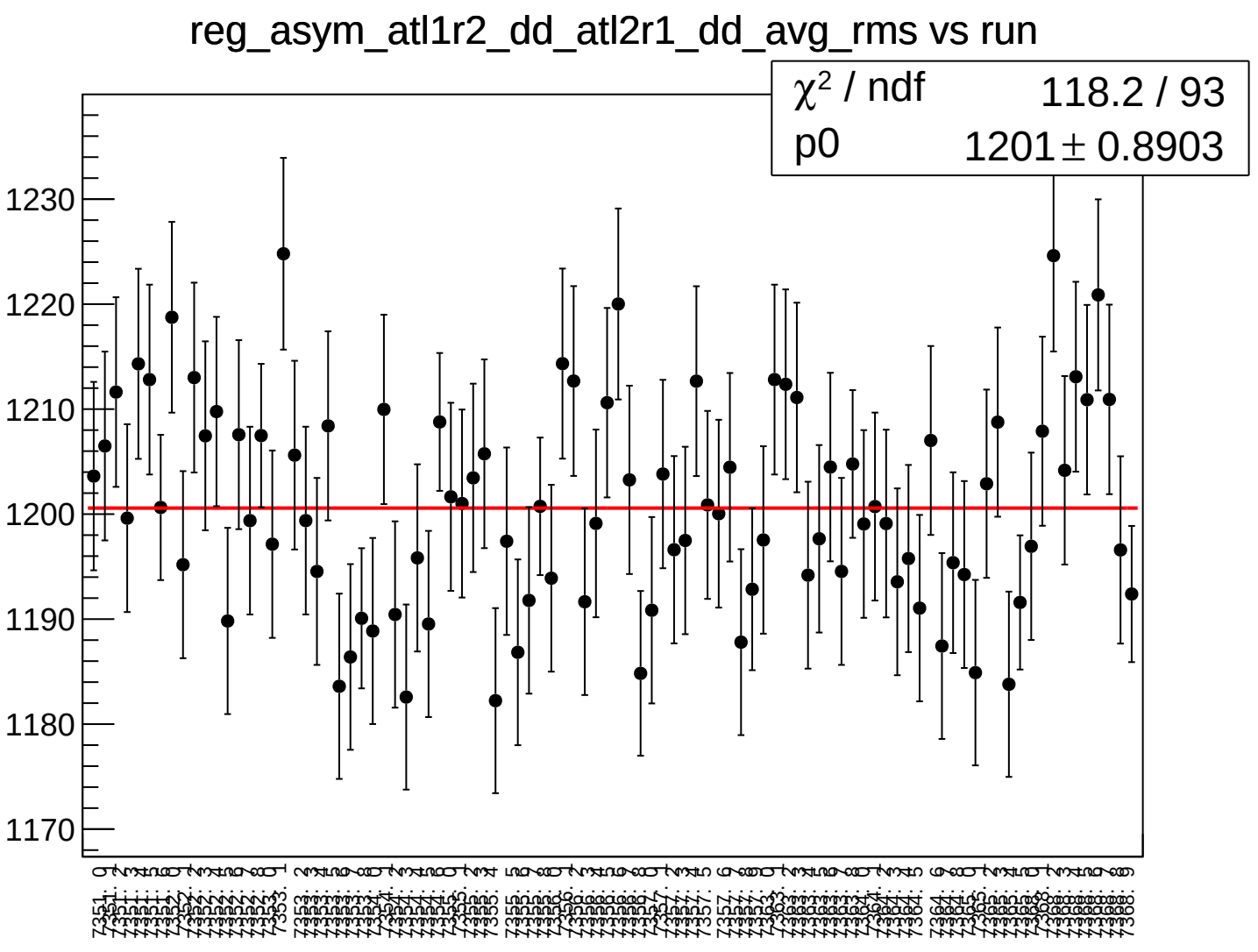

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.469e+04 / 93
p0 555 ± 0.4179
1200
1100
1000
900
800
700
600
500
400

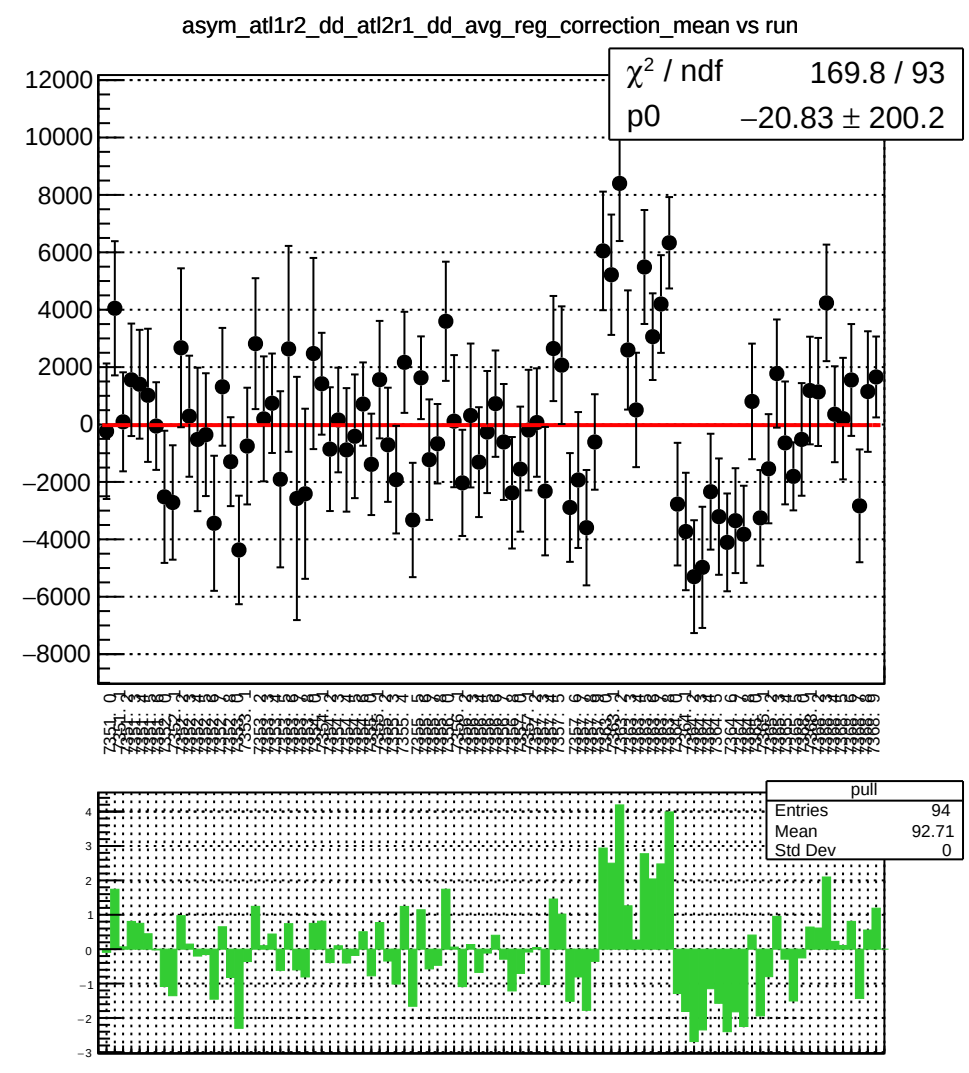

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 111.8 / 93
p0 −1.004e−13 ± 5.004e−14
pull
Entries 94
Mean 24.8
Std Dev 18.55

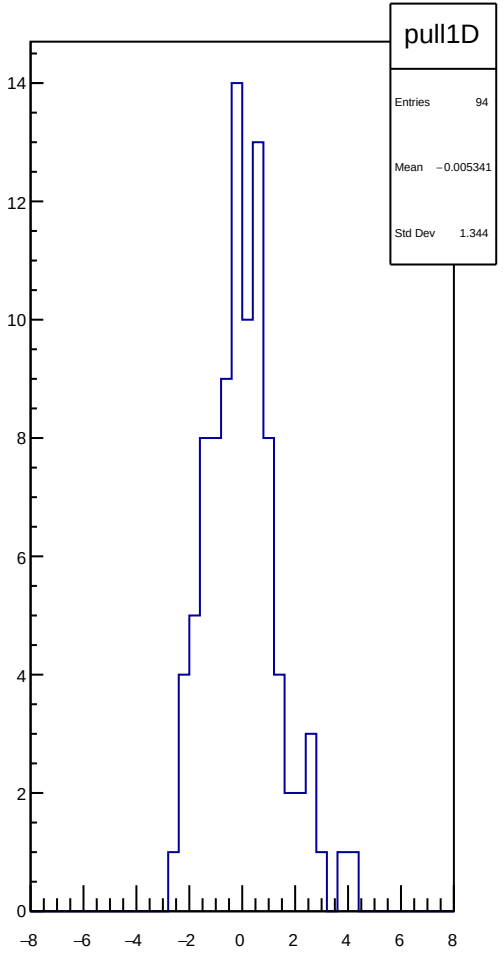

pull1D
Entries 94
Mean 0.08772
Std Dev 1.087

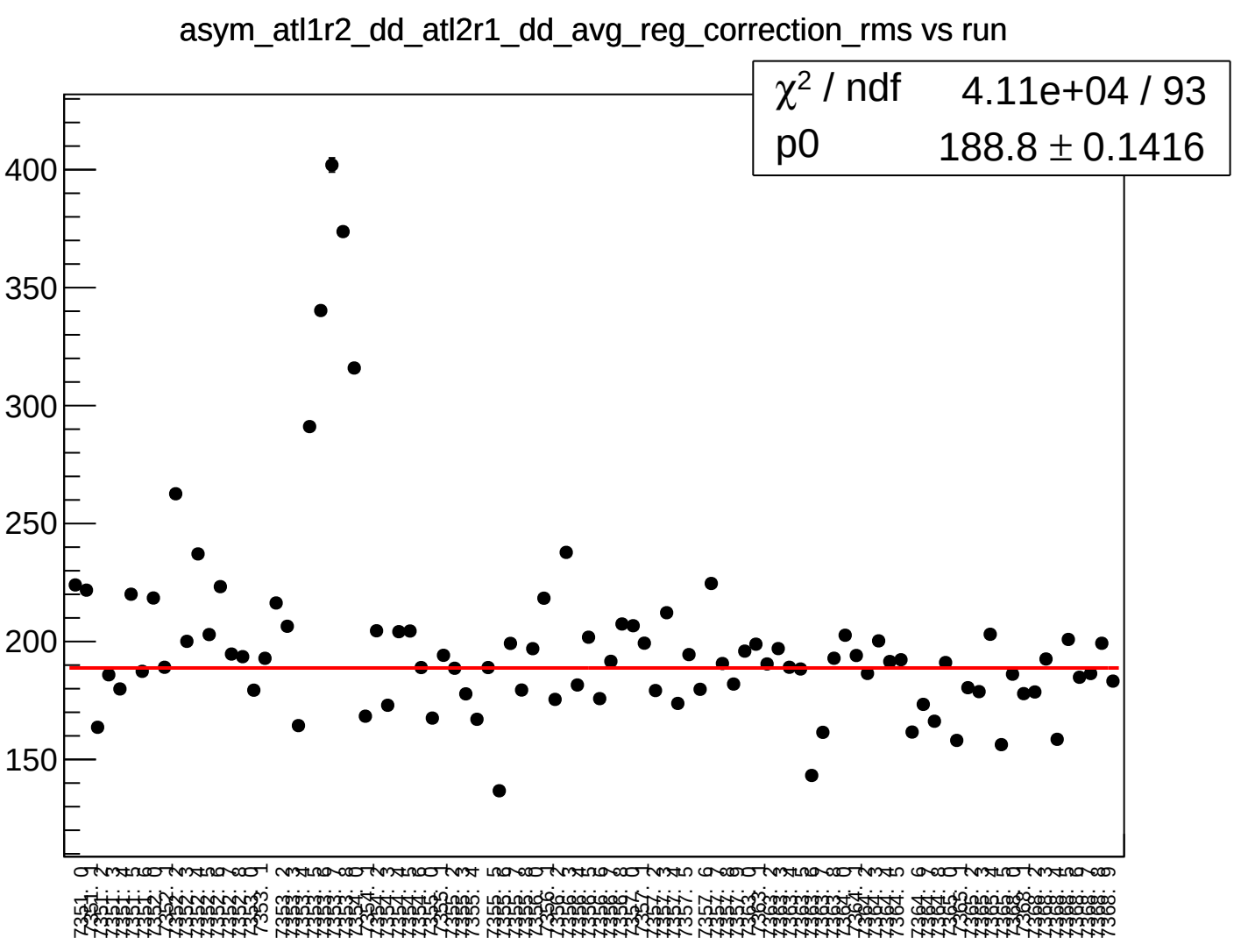

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.347e+05 / 93
p0 3.85e−11 ± 3.538e−14
0.3
0.25
0.2
0.15
0.1
0.05

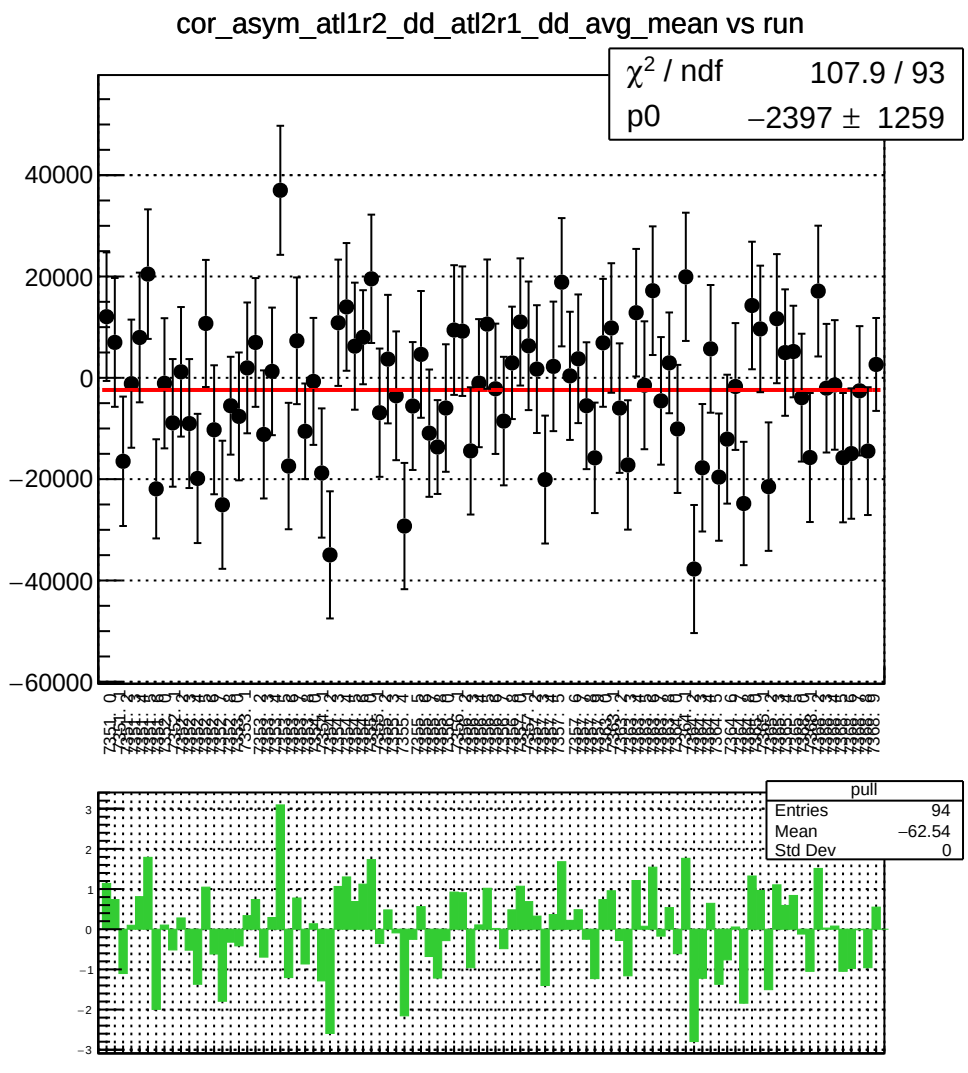

reg_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 107.9 / 93
p0 −2397 ± 1259
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −62.26
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.006585
Std Dev 1.072
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

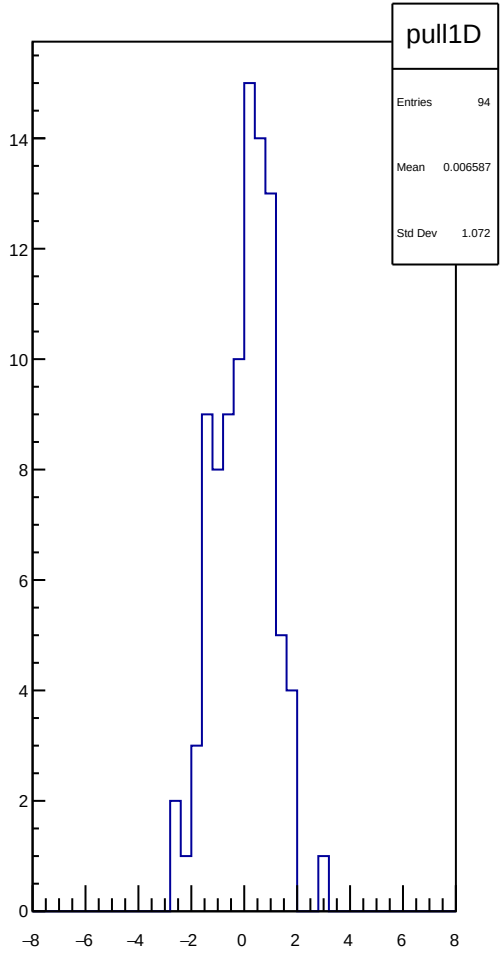

reg_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 118.2 / 93
p0 1201 ± 0.8903
1230
1220
1210
1200
1190
1180
1170

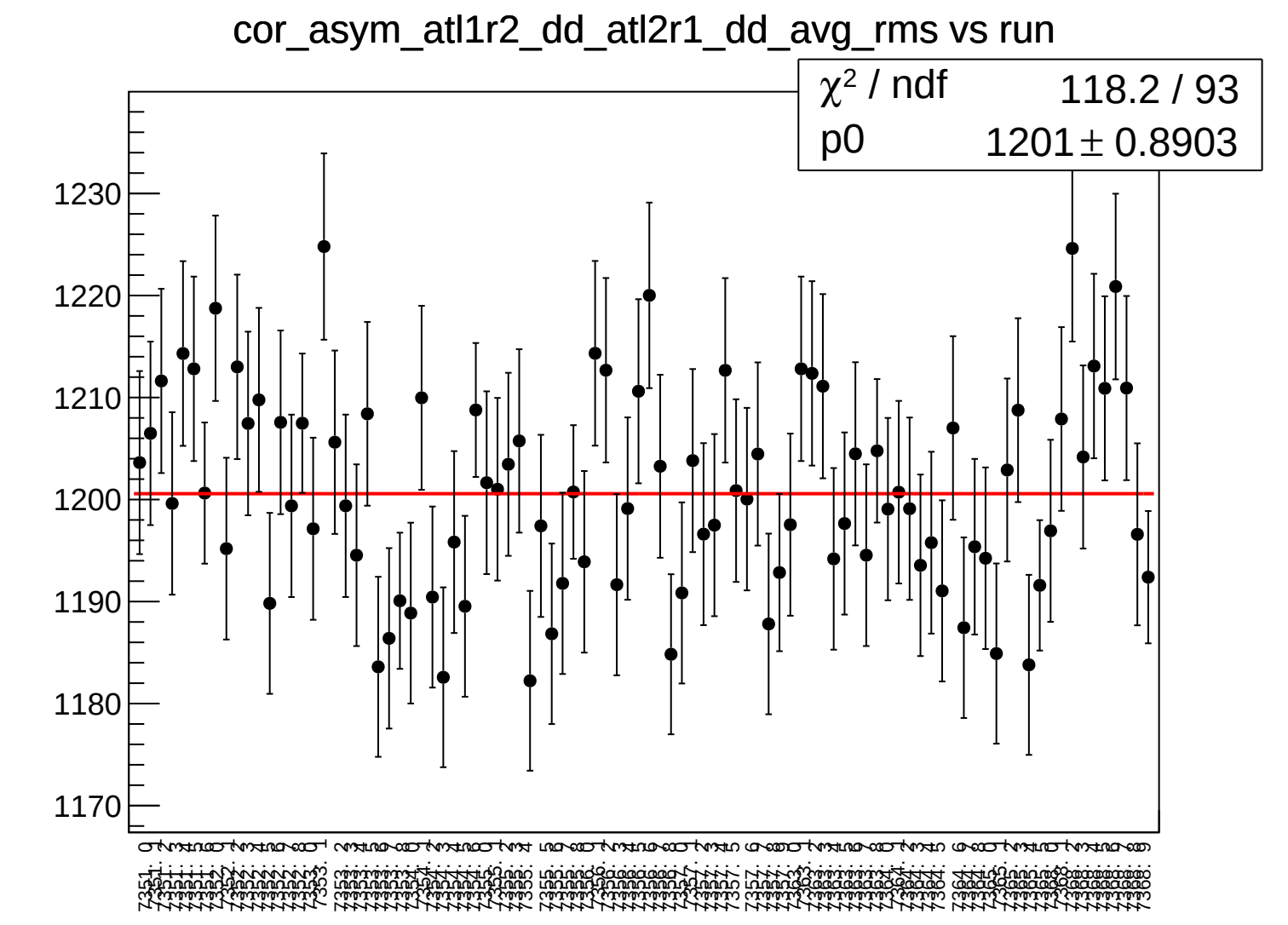

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_mean vs run
χ² / ndf 169.8 / 93
p0 −20.83 ± 200.2
pull
Entries 94
Mean 92.71
Std Dev 0

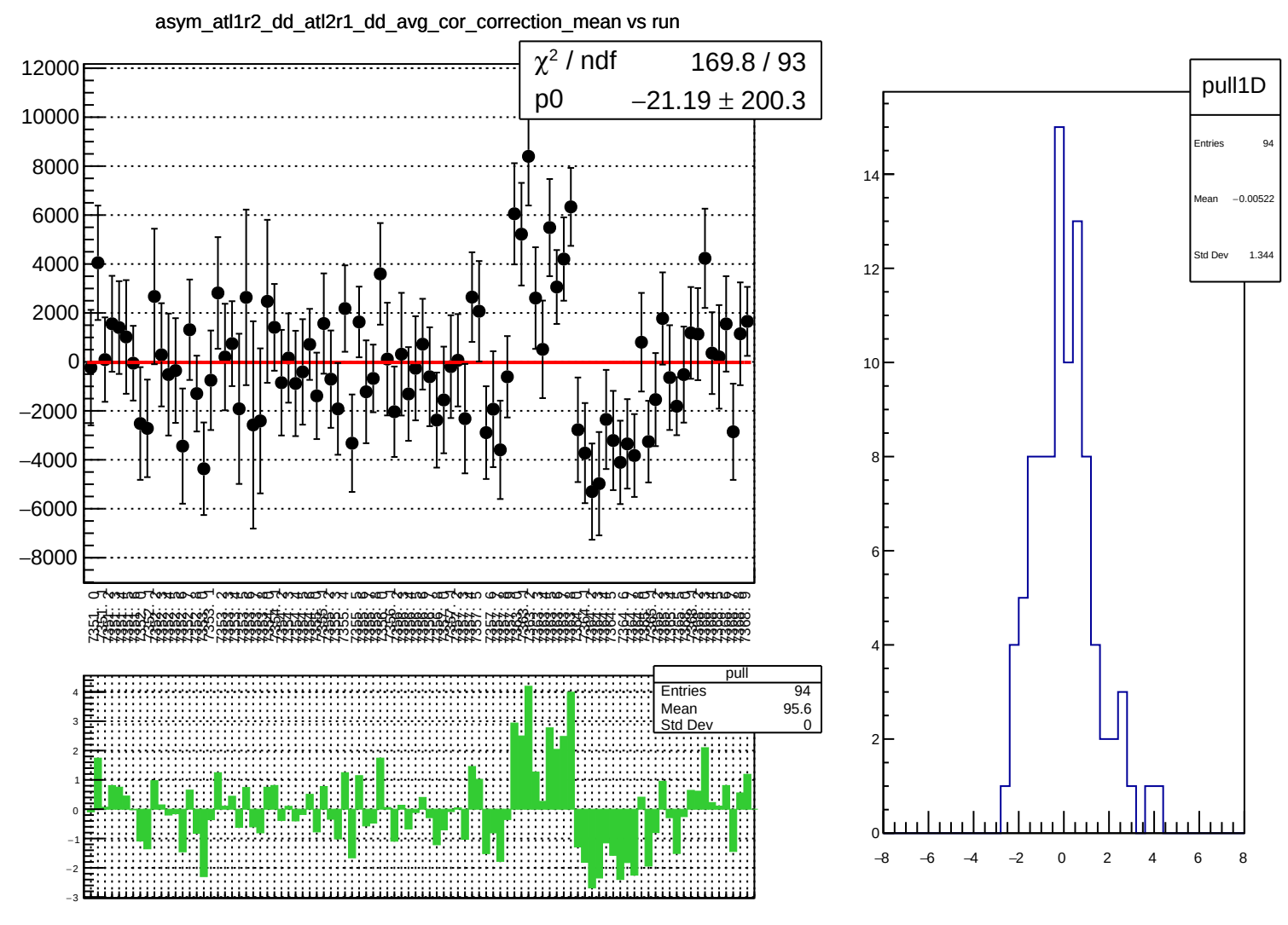

pull1D
Entries 94
Mean −0.005341
Std Dev 1.344

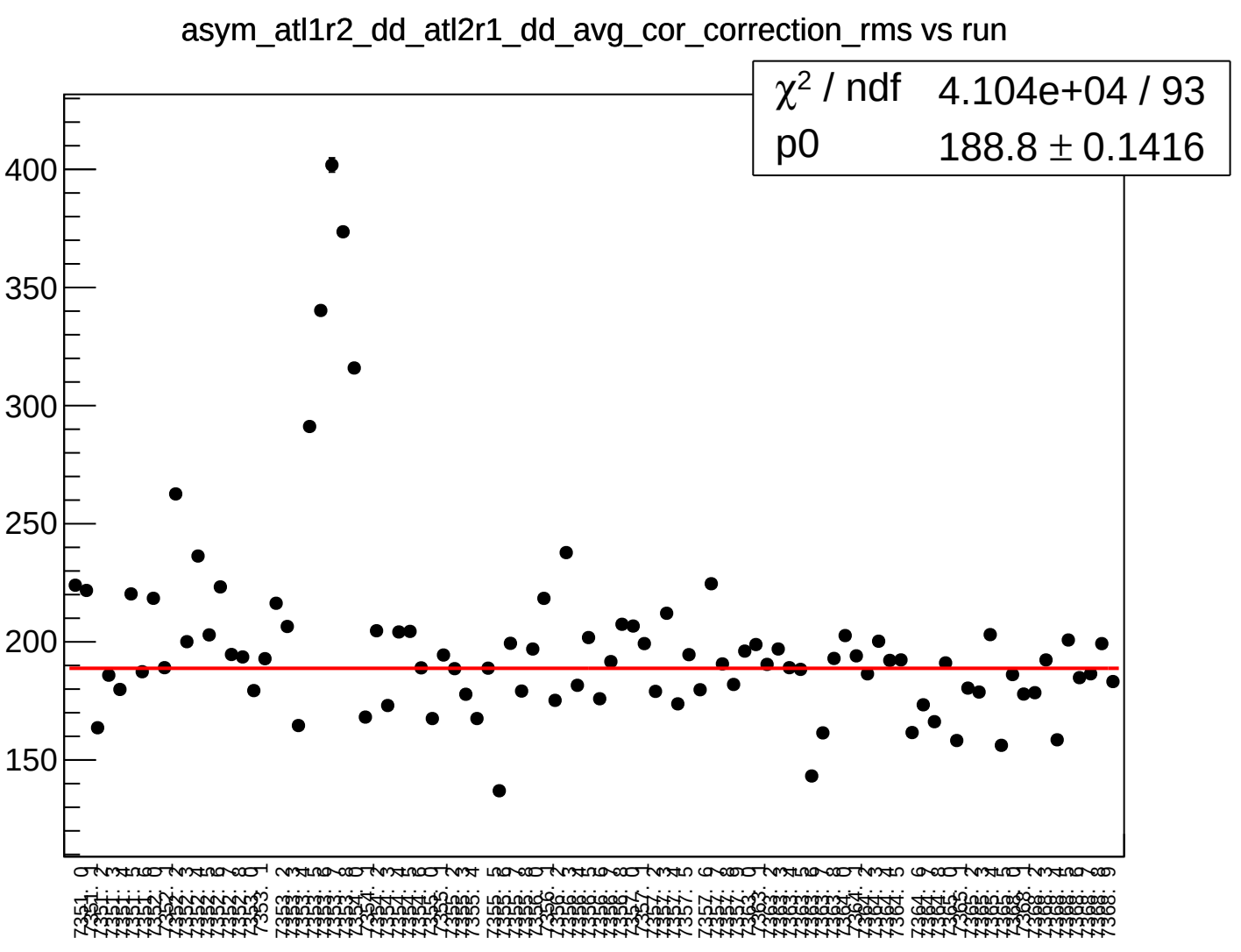

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_rms vs run
χ² / ndf 4.11e+04 / 93
p0 188.8 ± 0.1416
400
350
300
250
200
150

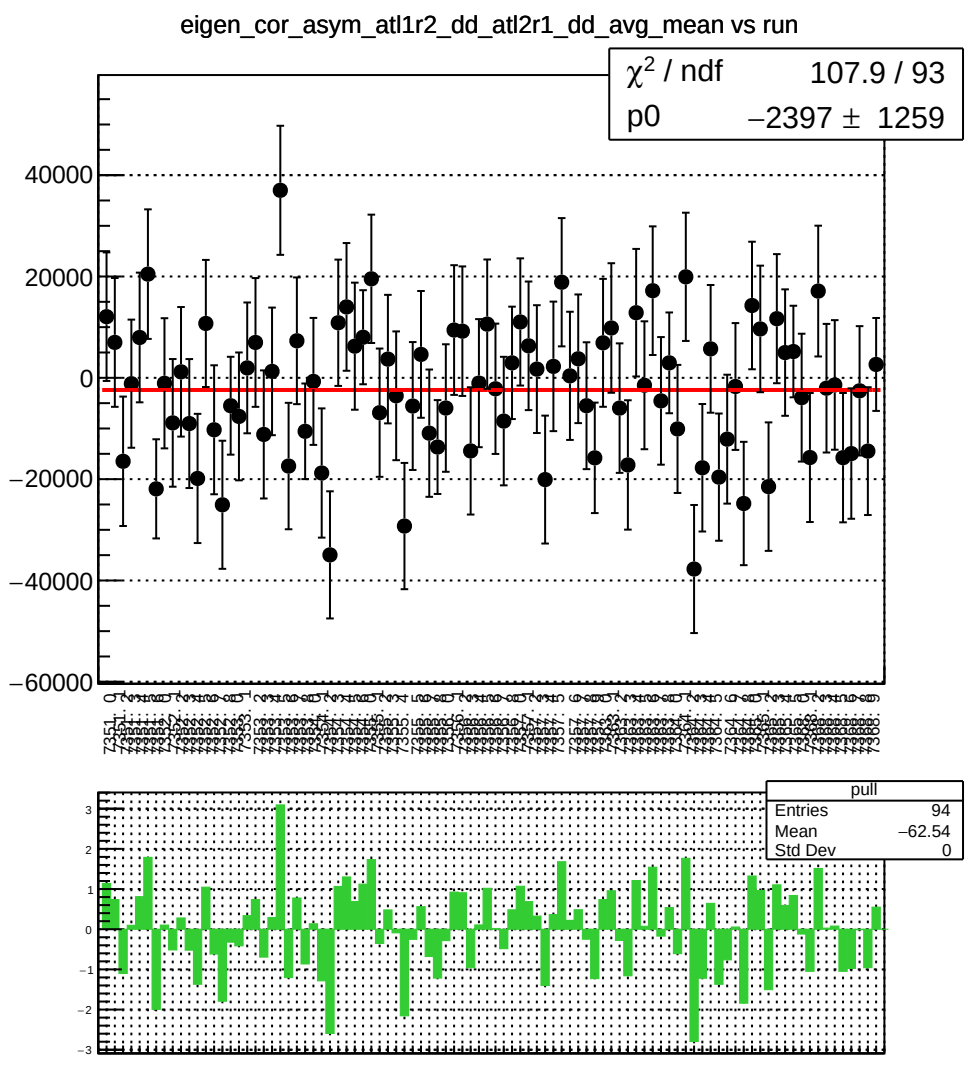

cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 107.9 / 93
p0 −2397 ± 1259
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −62.54
Std Dev 0
3
2
1
0
−1
−2
−3

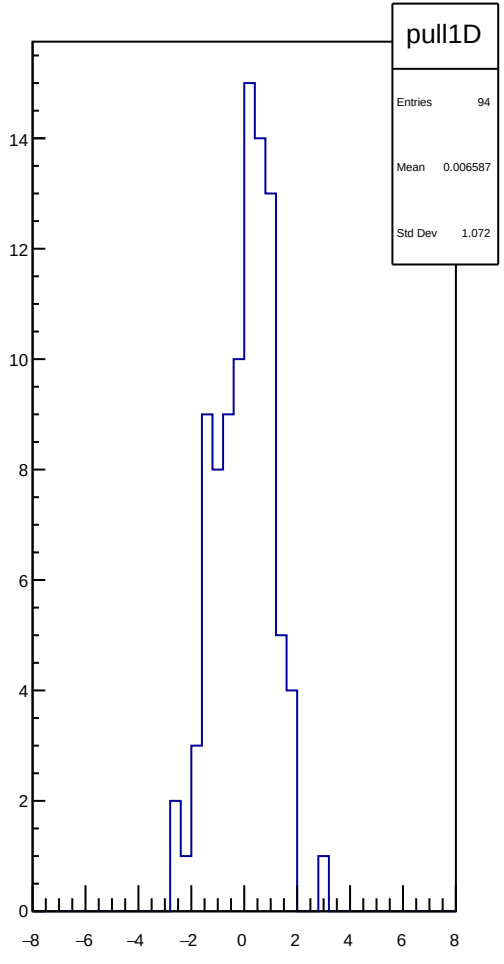

pull1D
Entries 94
Mean 0.006587
Std Dev 1.072
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

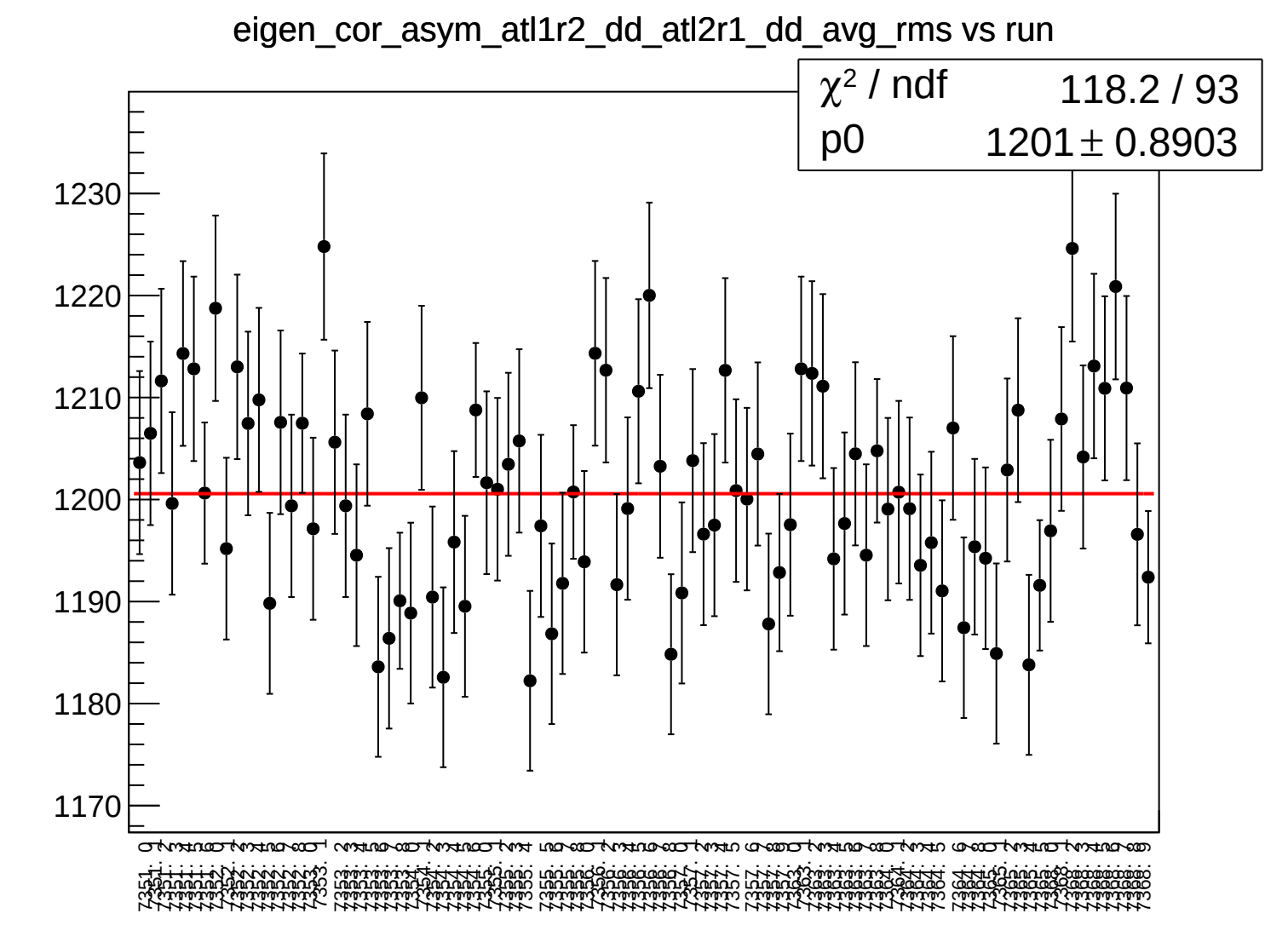

cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 118.2 / 93
p0 1201 ± 0.8903
1230
1220
1210
1200
1190
1180
1170

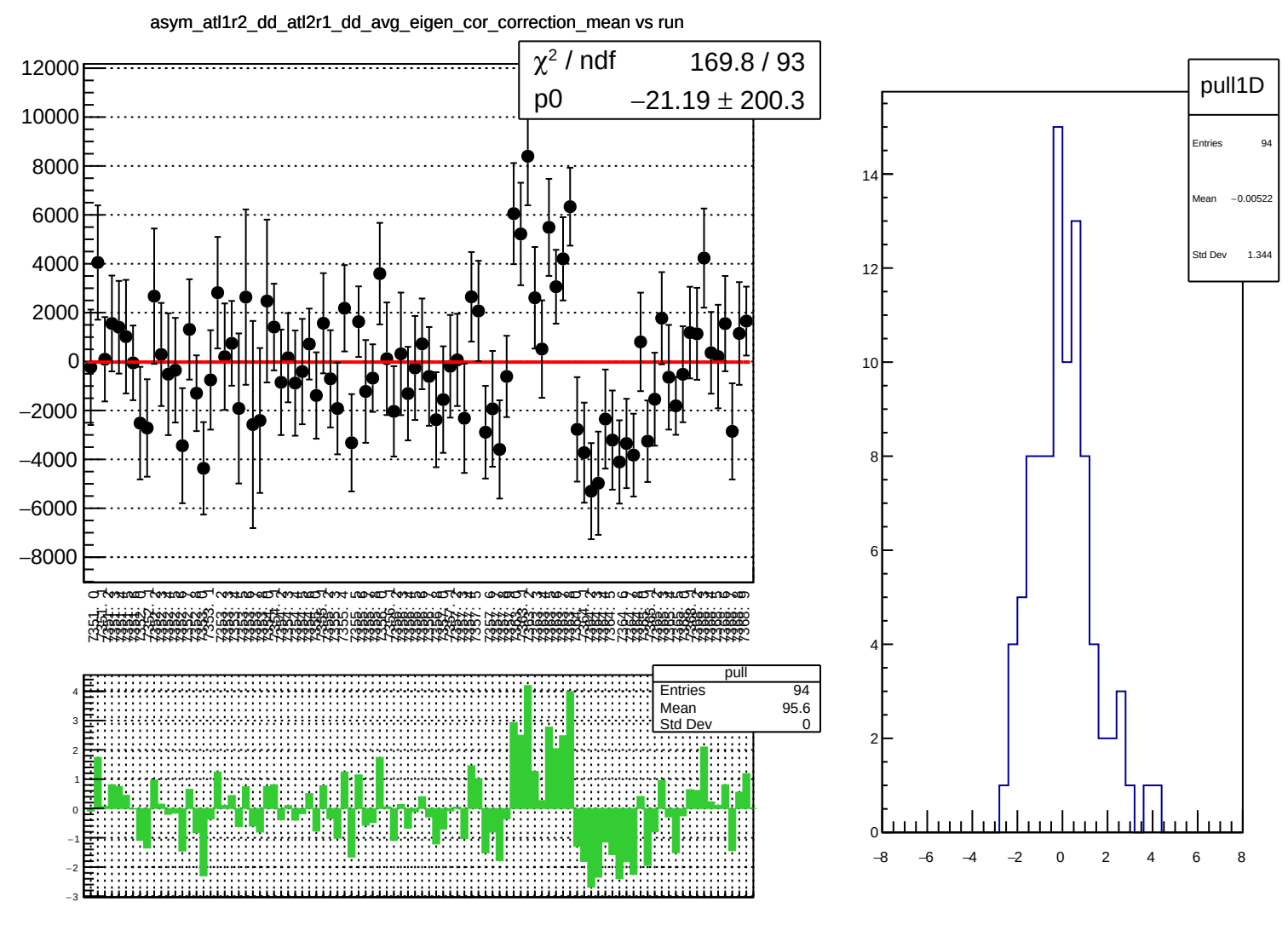

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_mean vs run
χ² / ndf 169.8 / 93
p0 −21.19 ± 200.3
pull
Entries 94
Mean 95.6
Std Dev 0
pull1D
Entries 94
Mean −0.00522
Std Dev 1.344

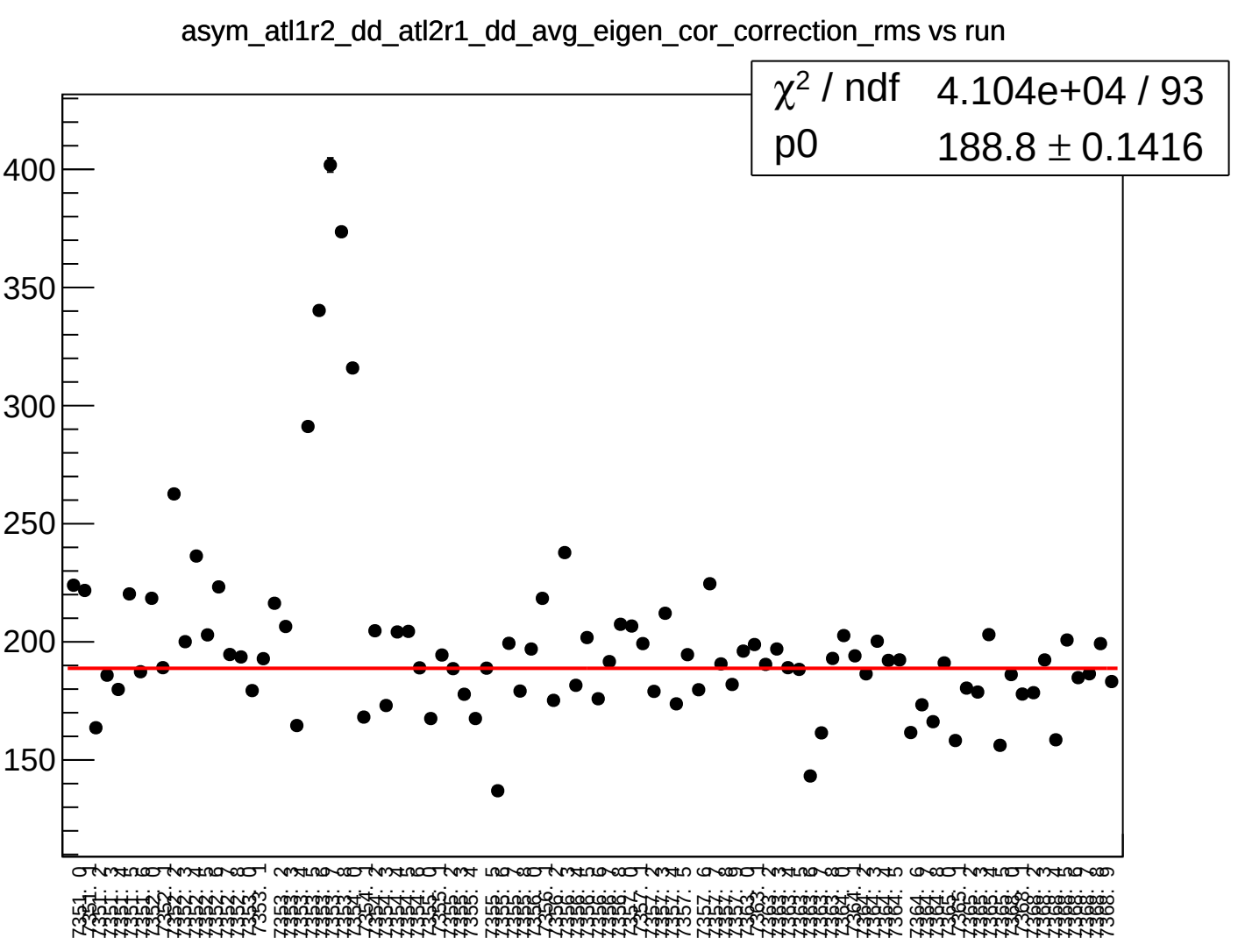

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_rms vs run
χ² / ndf 4.104e+04 / 93
p0 188.8 ± 0.1416
400
350
300
250
200
150

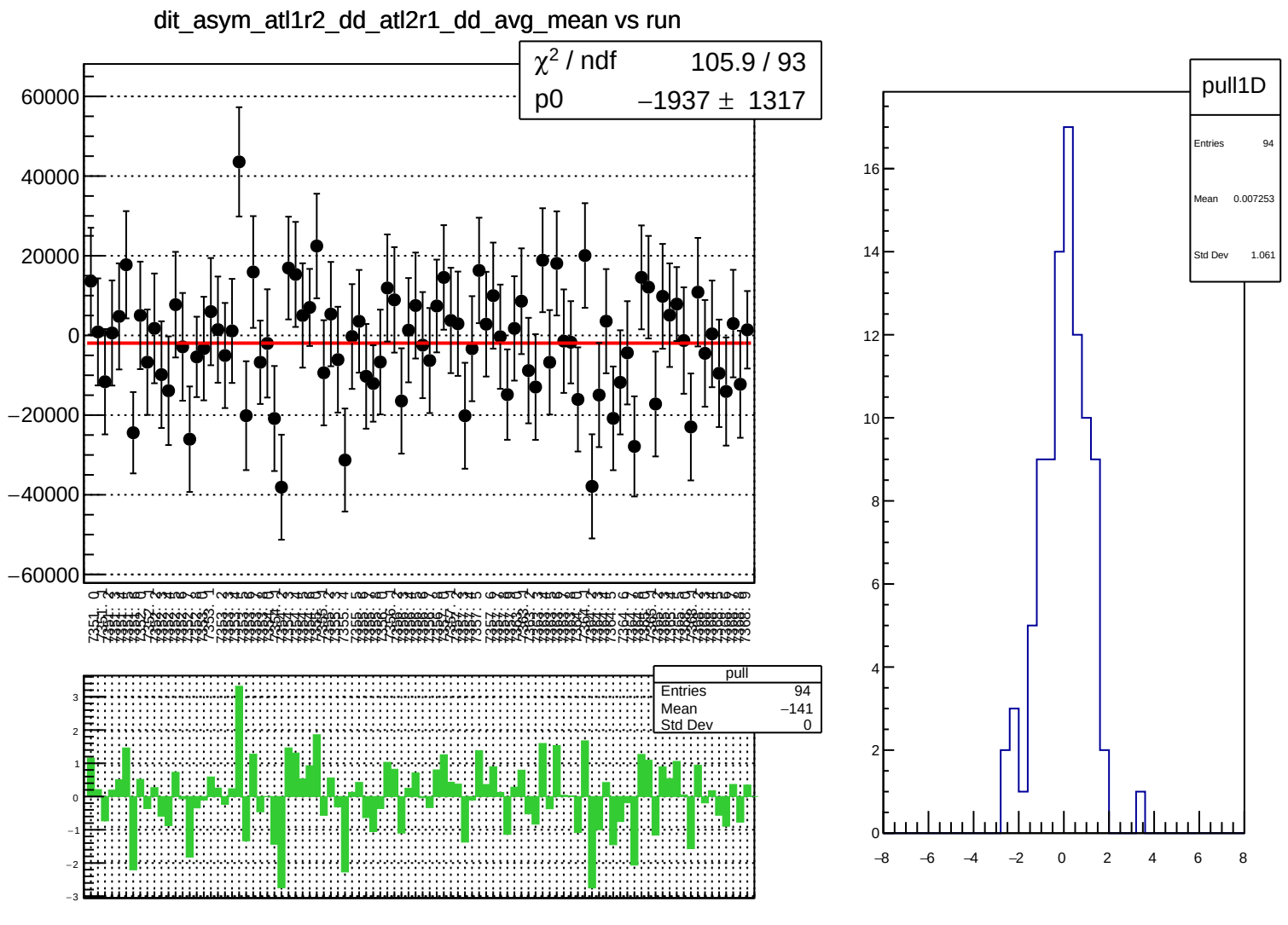

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 107.9 / 93
p0 −2397 ± 1259
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −62.54
Std Dev 0
3
2
1
0
−1
−2
−3

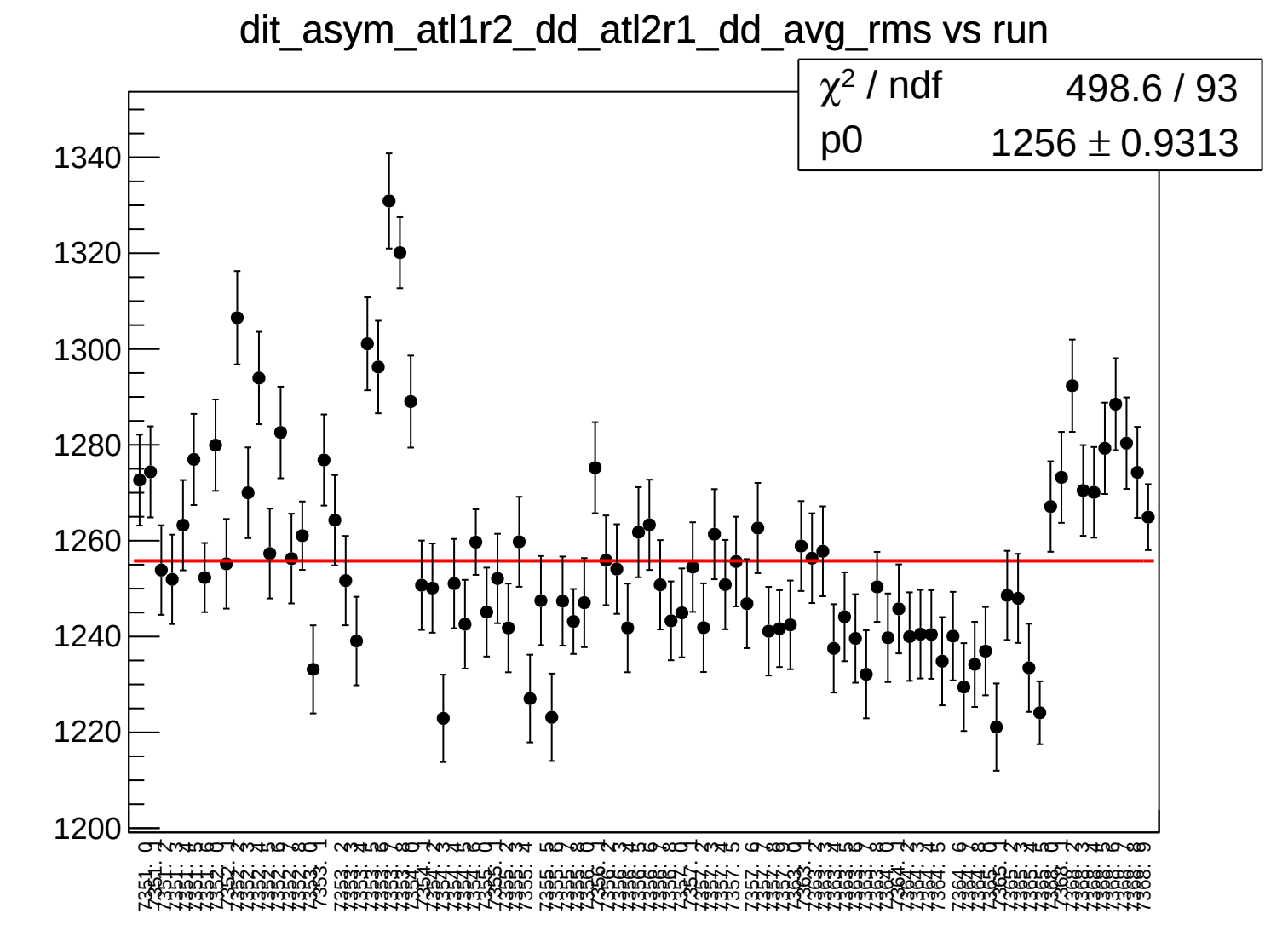

pull1D
Entries 94
Mean 0.006587
Std Dev 1.072
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

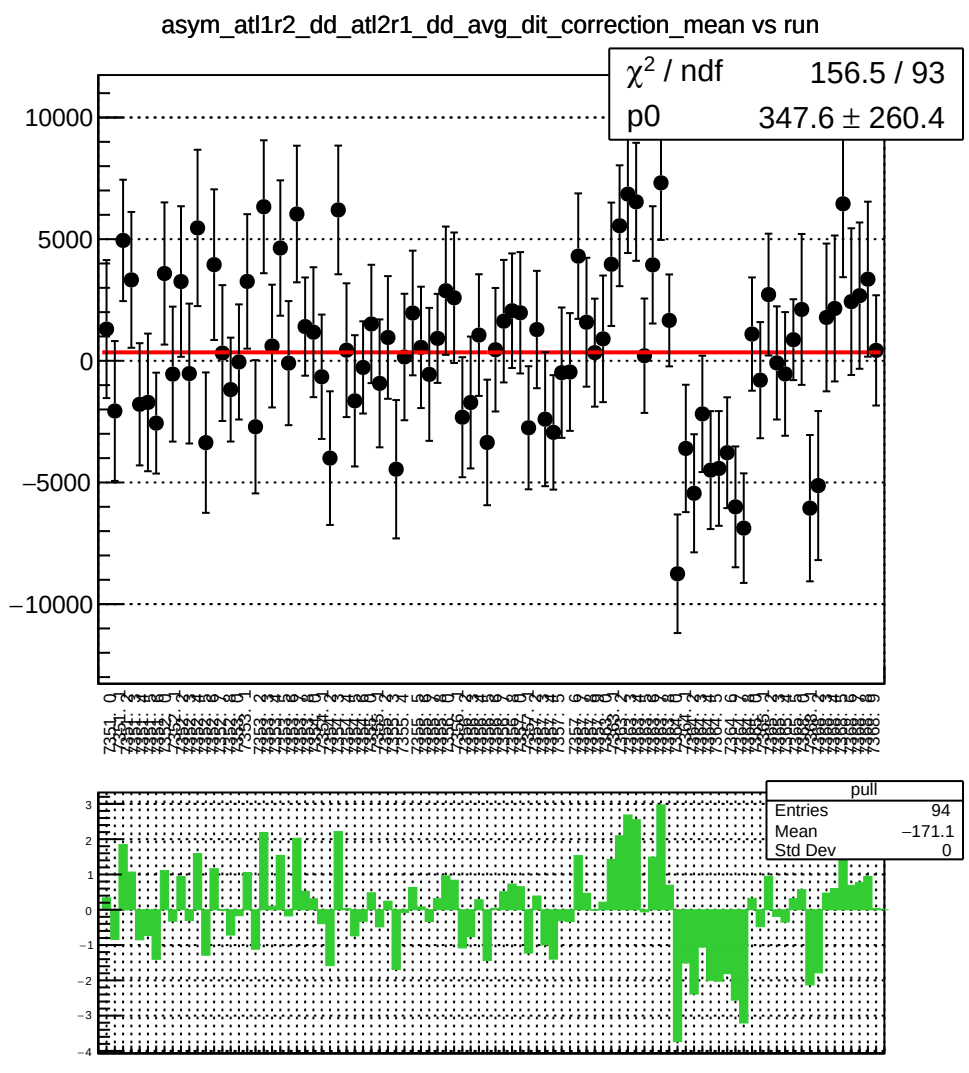

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 118.2 / 93
p0 1201 ± 0.8903
1230
1220
1210
1200
1190
1180
1170

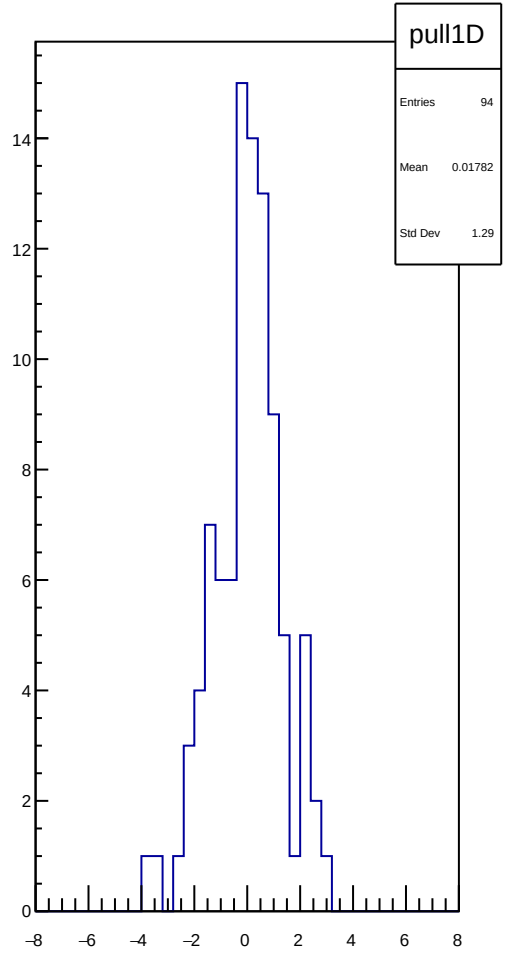

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 169.8 / 93
p0 −21.19 ± 200.3
pull
Entries 94
Mean 95.6
Std Dev 0
pull1D
Entries 94
Mean −0.00522
Std Dev 1.344

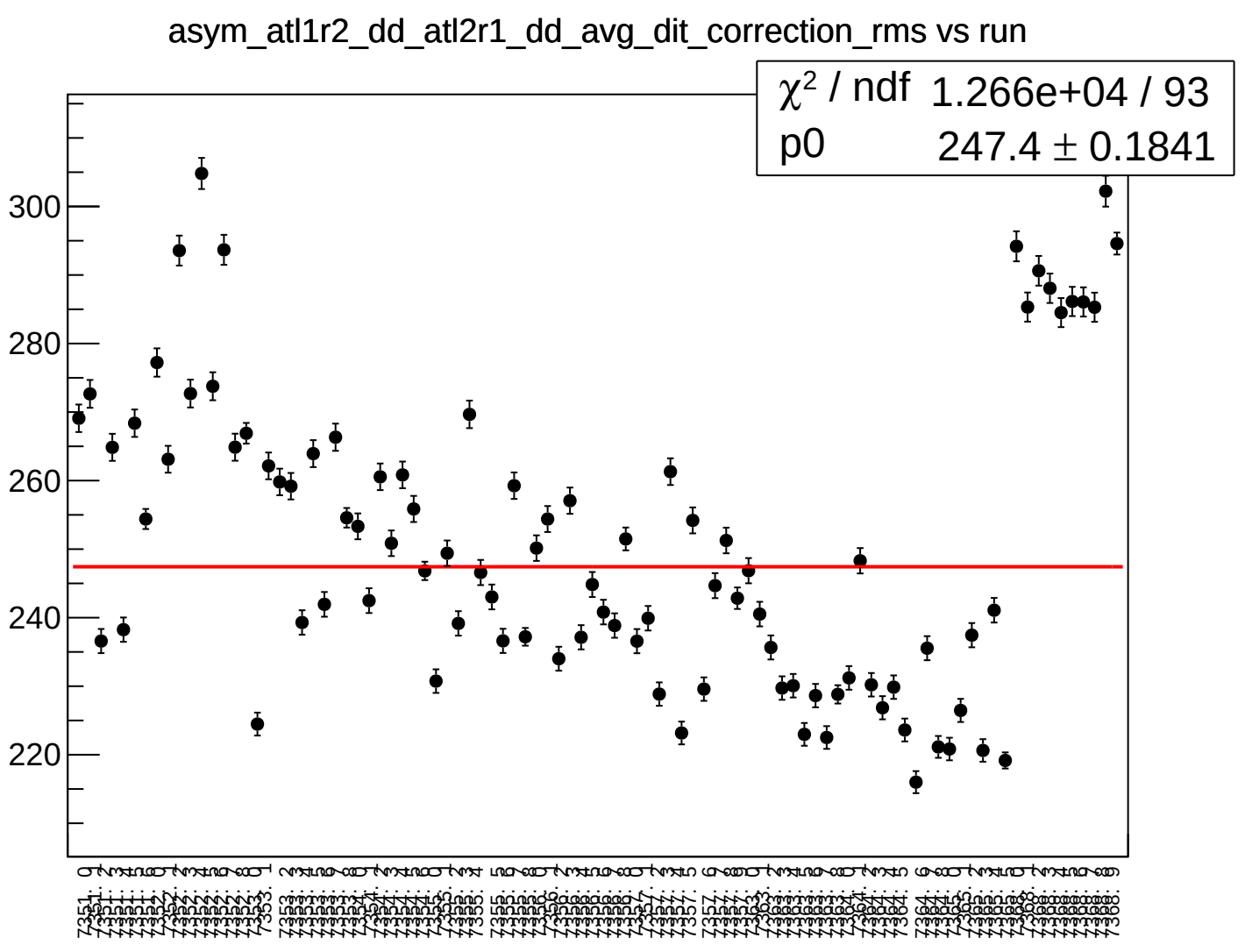

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 4.104e+04 / 93
p0 188.8 ± 0.1416
400
350
300
250
200
150

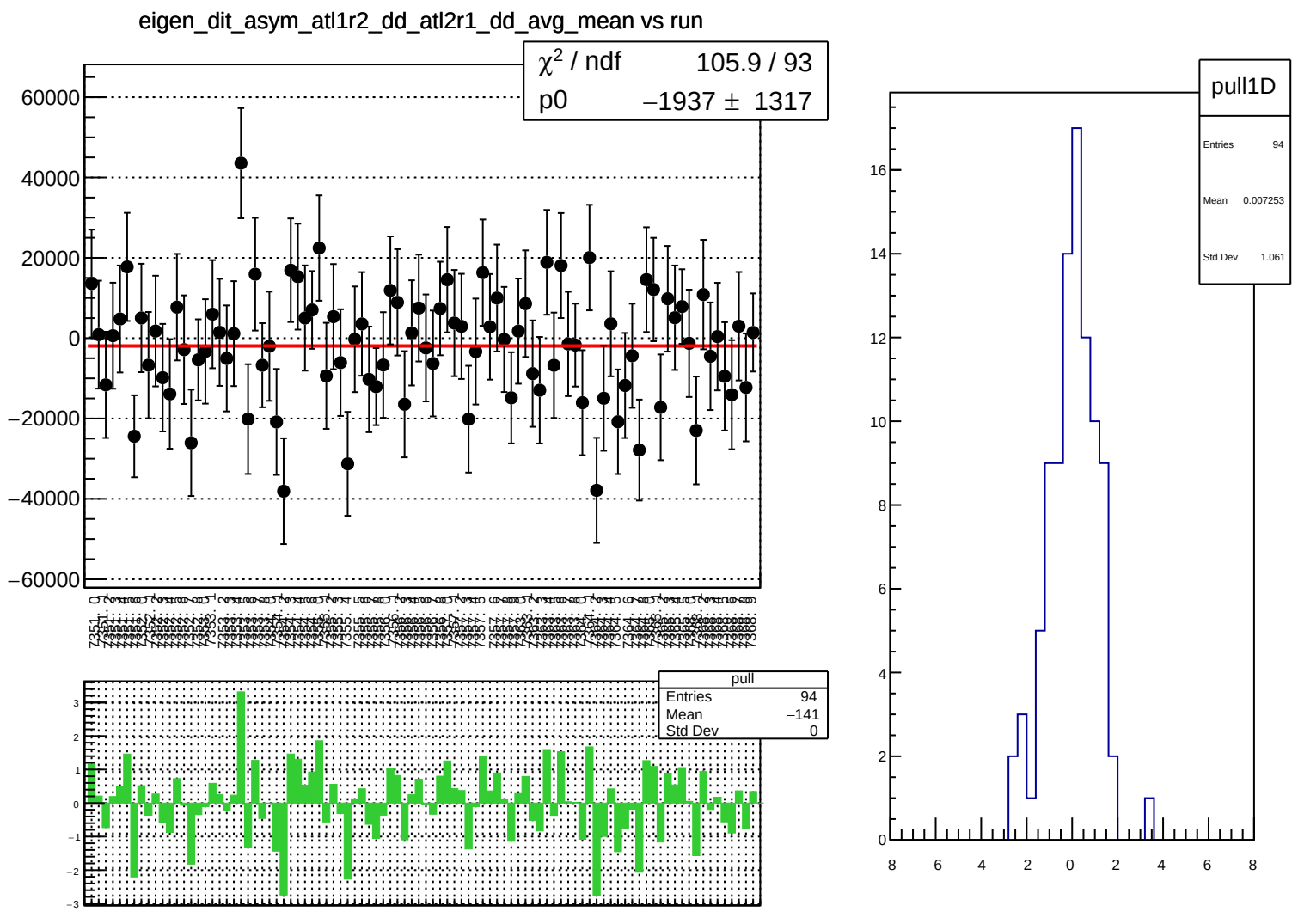

dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 105.9 / 93
p0 −1937 ± 1317
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −141
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.007253
Std Dev 1.061
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

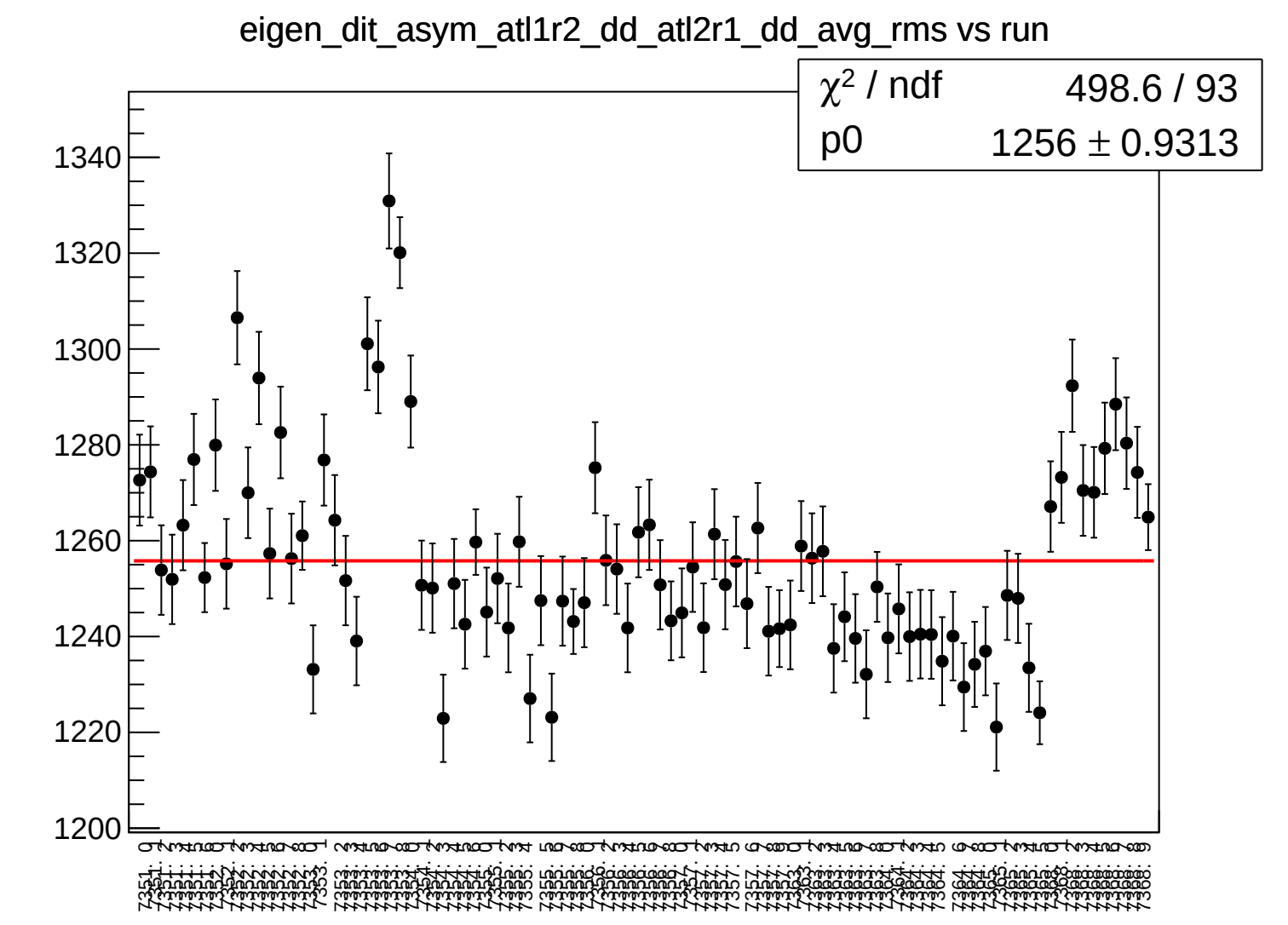

dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 498.6 / 93
p0 1256 ± 0.9313
1340
1320
1300
1280
1260
1240
1220
1200

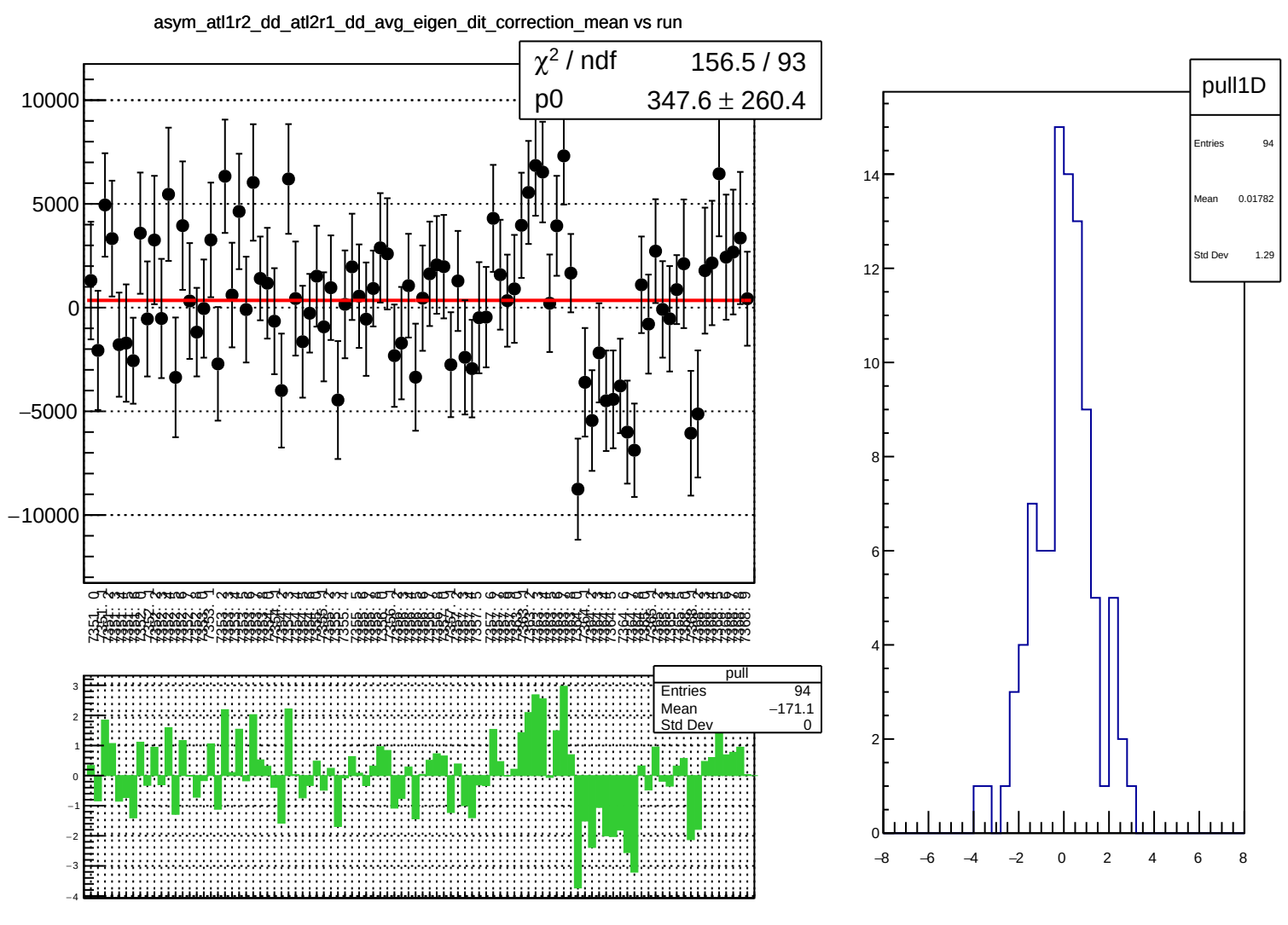

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_mean vs run
χ² / ndf 156.5 / 93
p0 347.6 ± 260.4
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −171.1
Std Dev 0
3
2
1
0
−1
−2
−3
−4

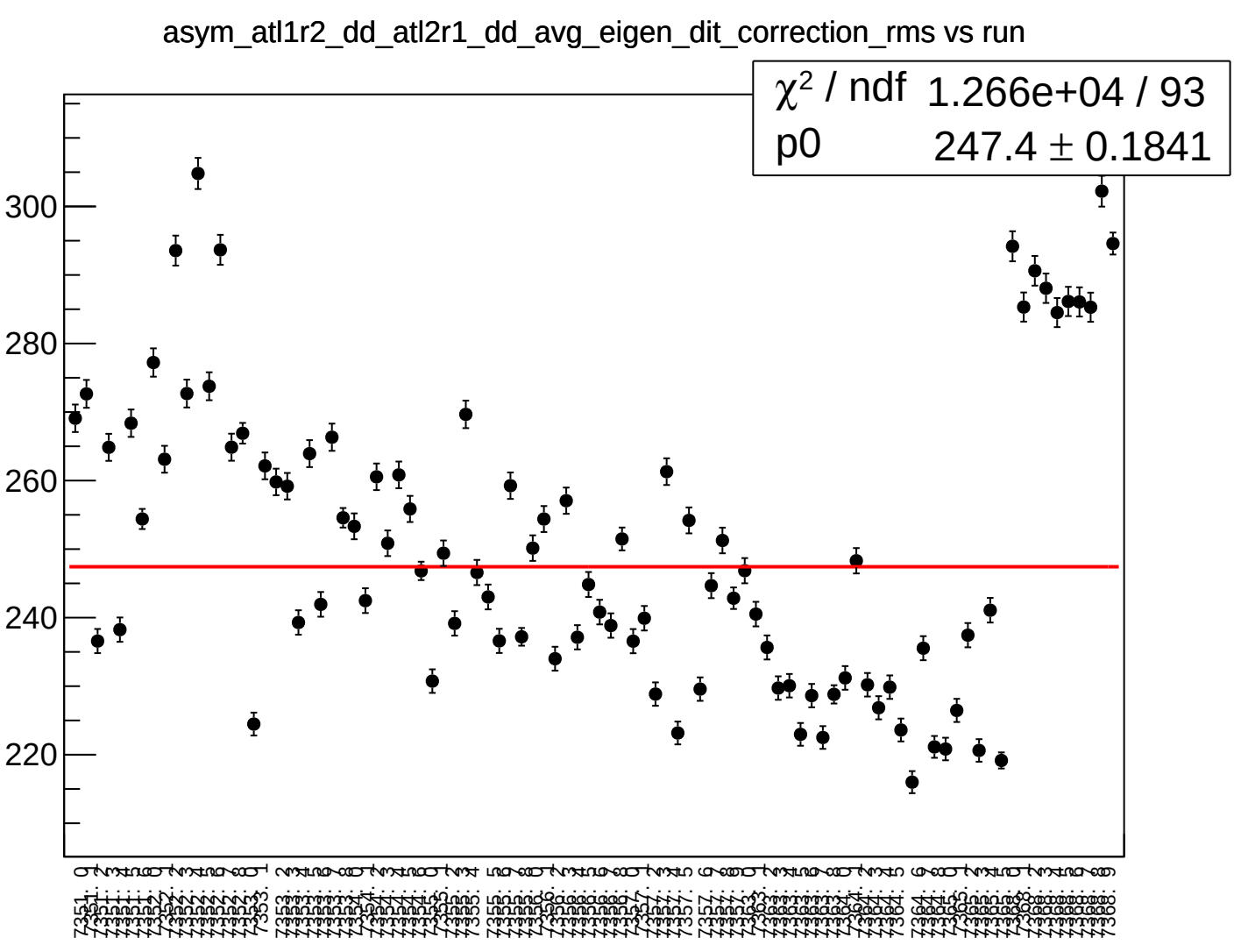

pull1D
Entries 94
Mean 0.01782
Std Dev 1.29
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

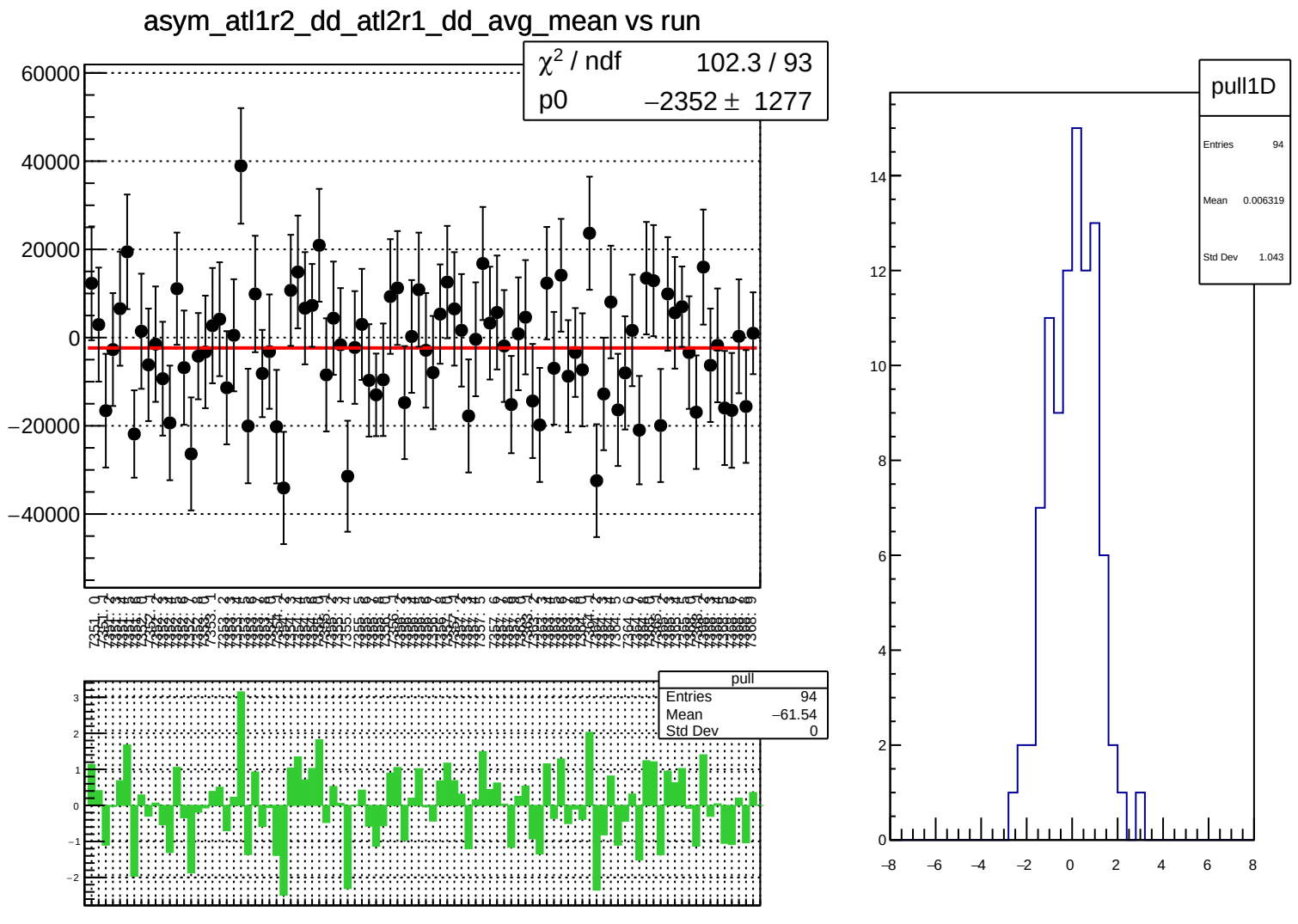

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_rms vs run
χ² / ndf 1.266e+04 / 93
p0 247.4 ± 0.1841
300
280
260
240
220

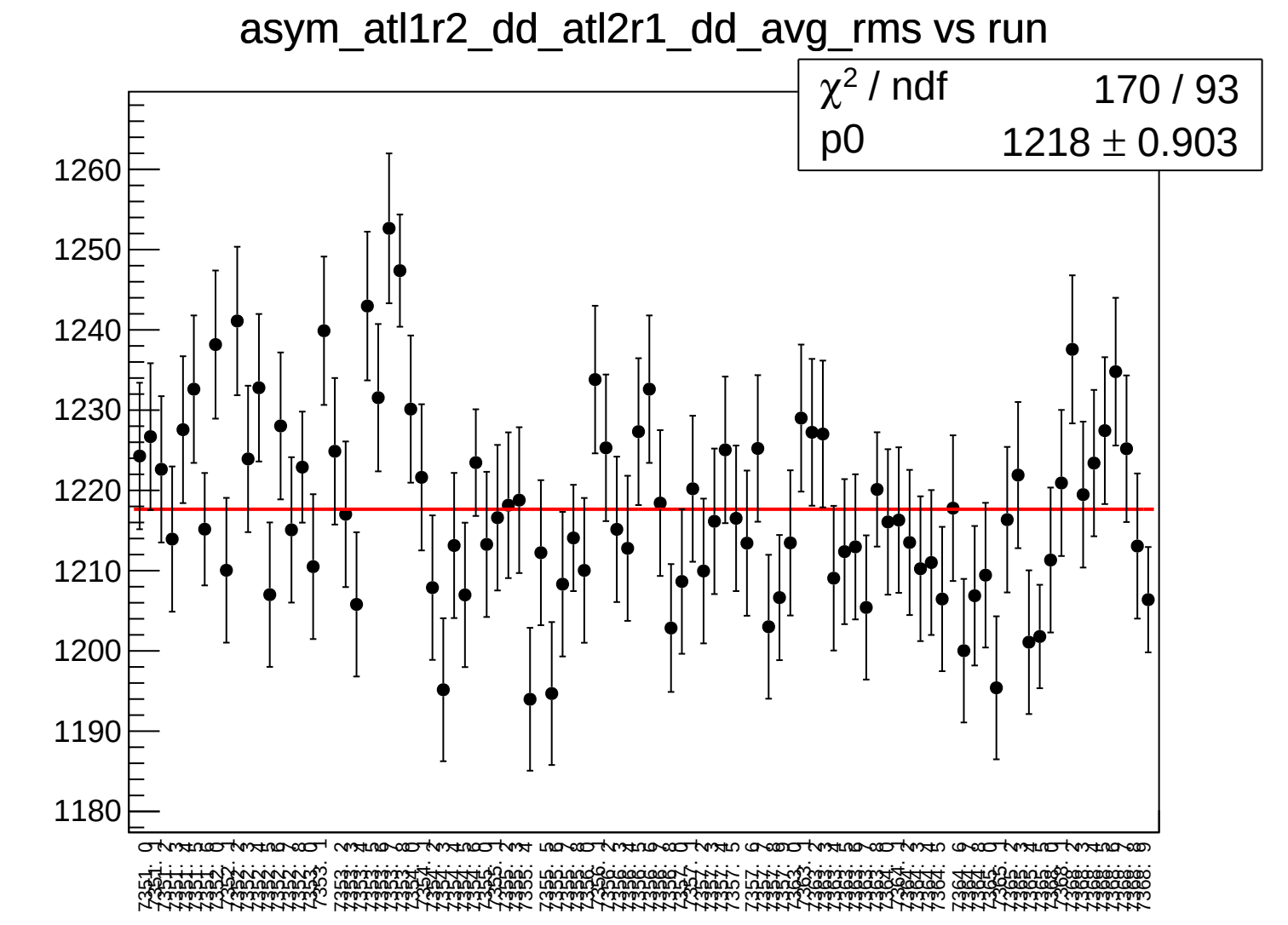

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 105.9 / 93
p0 −1937 ± 1317
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −141
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.007253
Std Dev 1.061
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

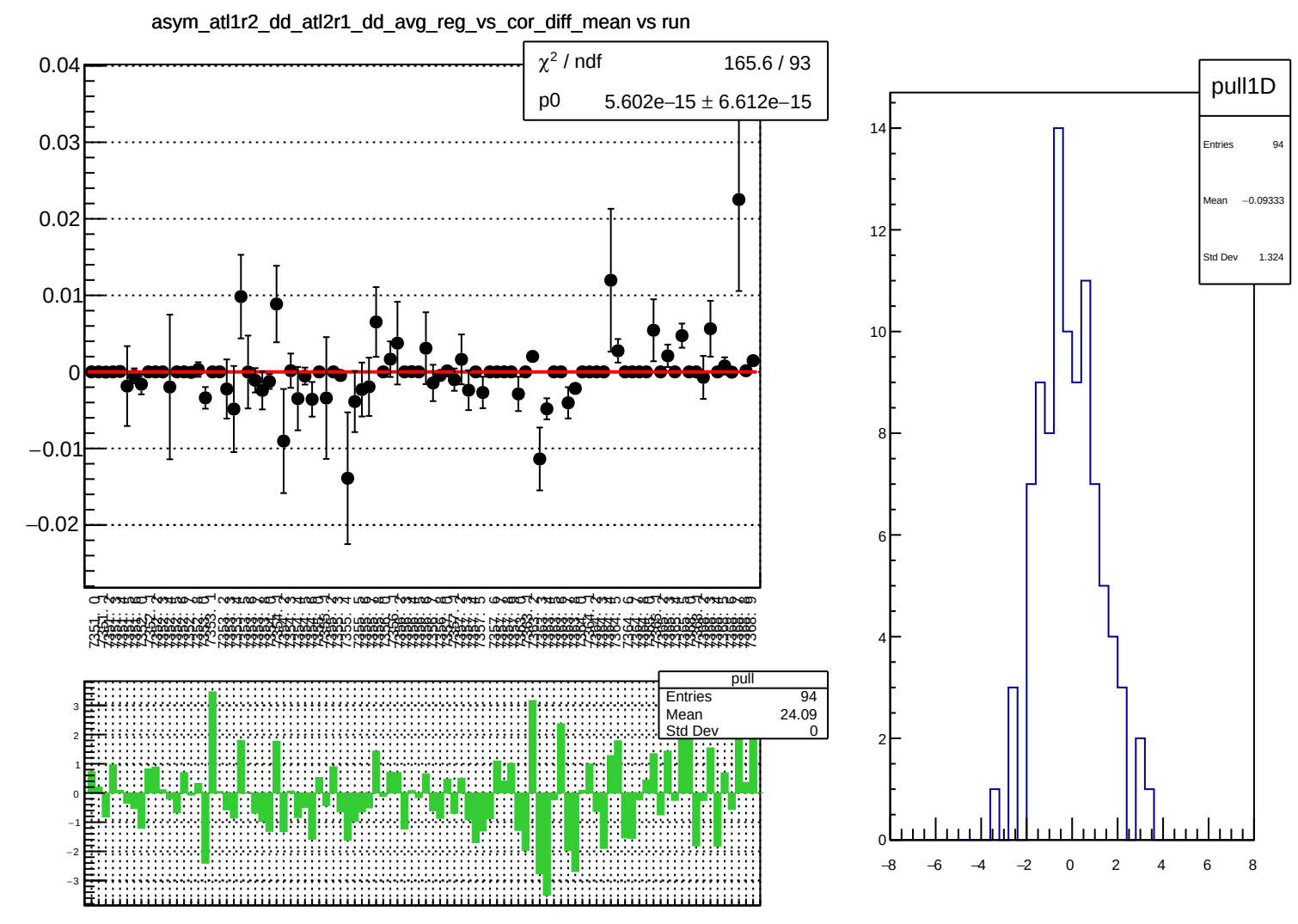

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 498.6 / 93
p0 1256 ± 0.9313
1340
1320
1300
1280
1260
1240
1220
1200

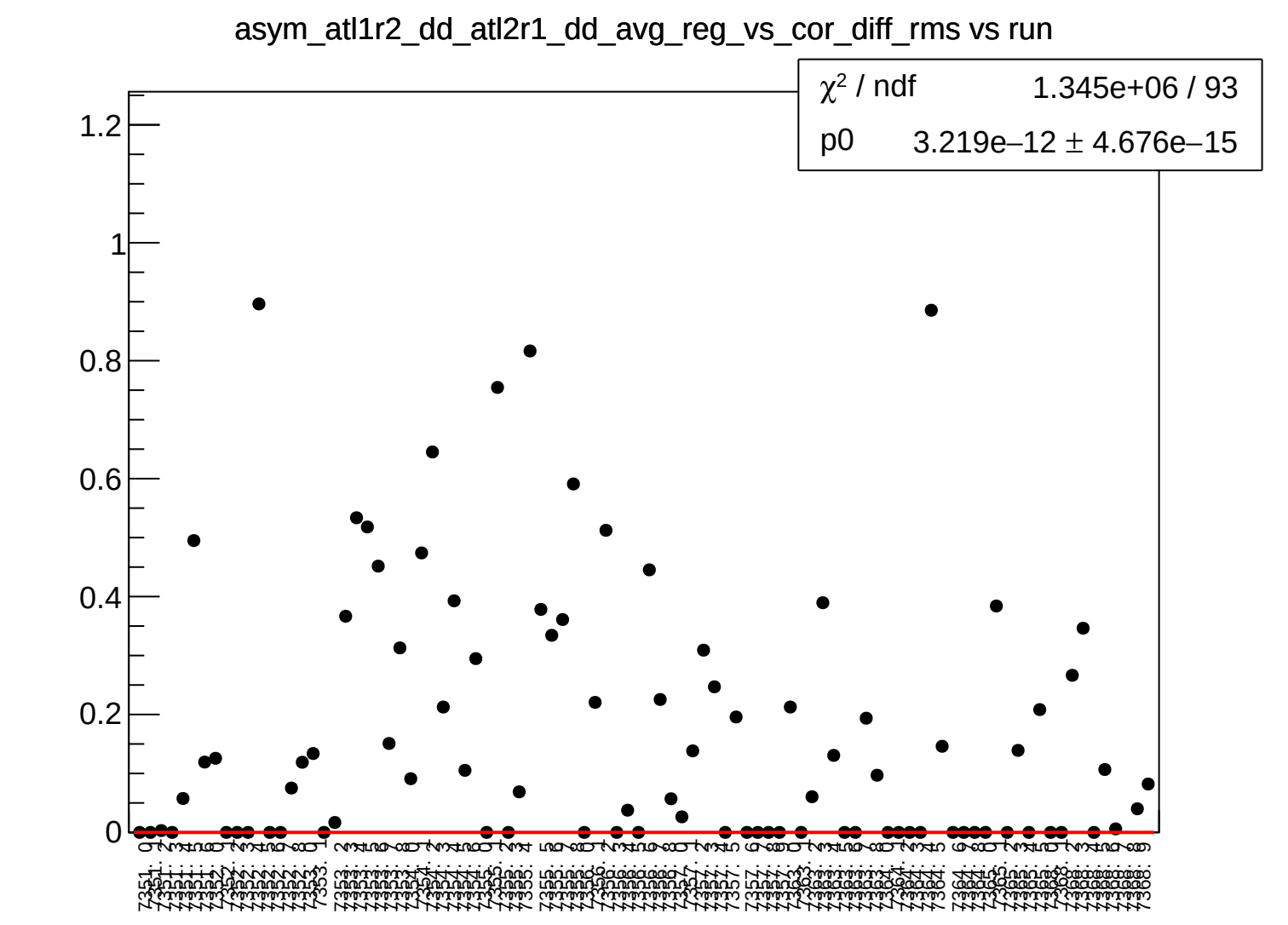

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 156.5 / 93
p0 347.6 ± 260.4
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −171.1
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 94
Mean 0.01782
Std Dev 1.29
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

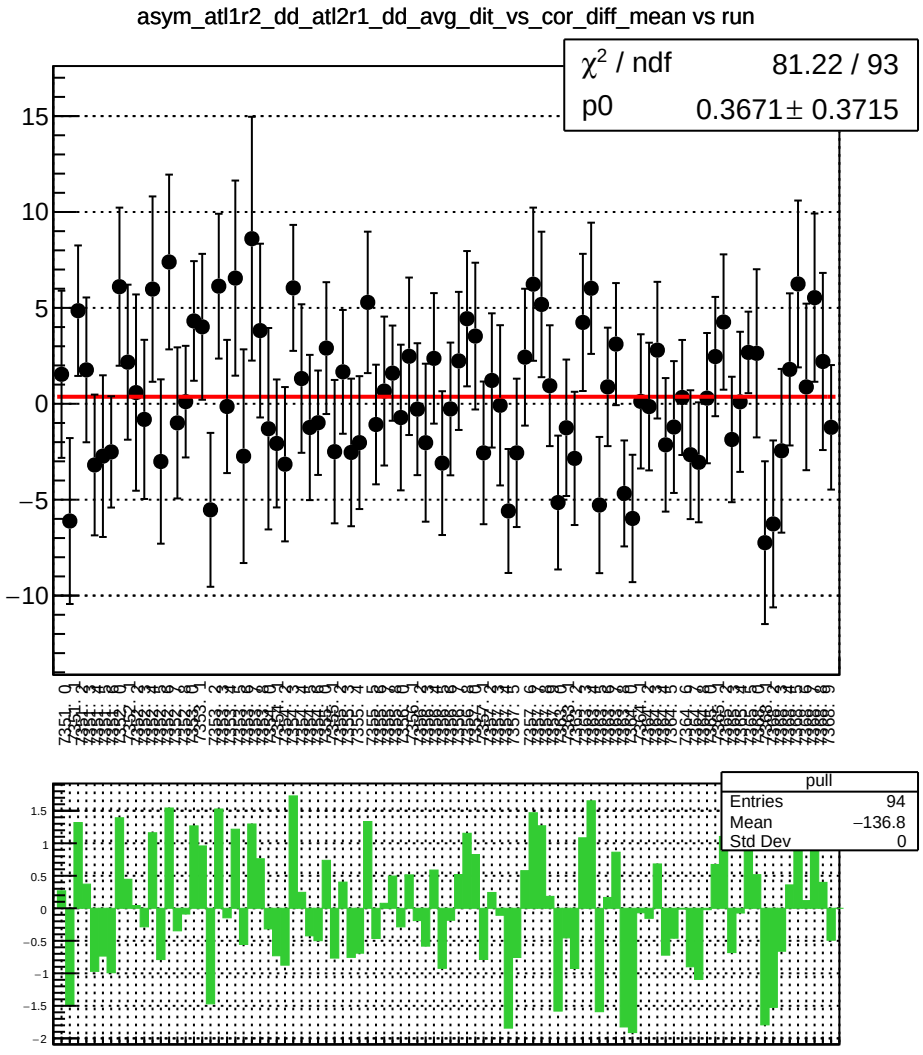

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.266e+04 / 93
p0 247.4 ± 0.1841
300
280
260
240
220

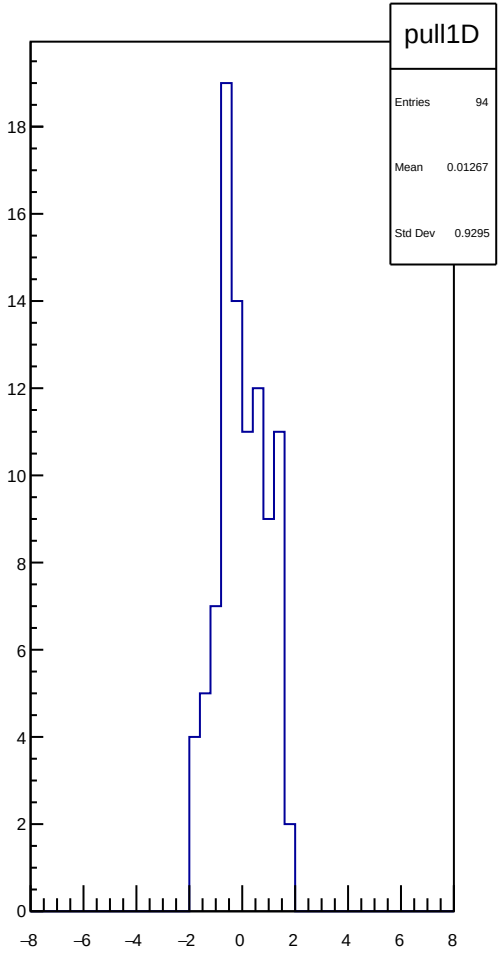

asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 102.3 / 93
p0 −2352 ± 1277
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −61.54
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.006319
Std Dev 1.043
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

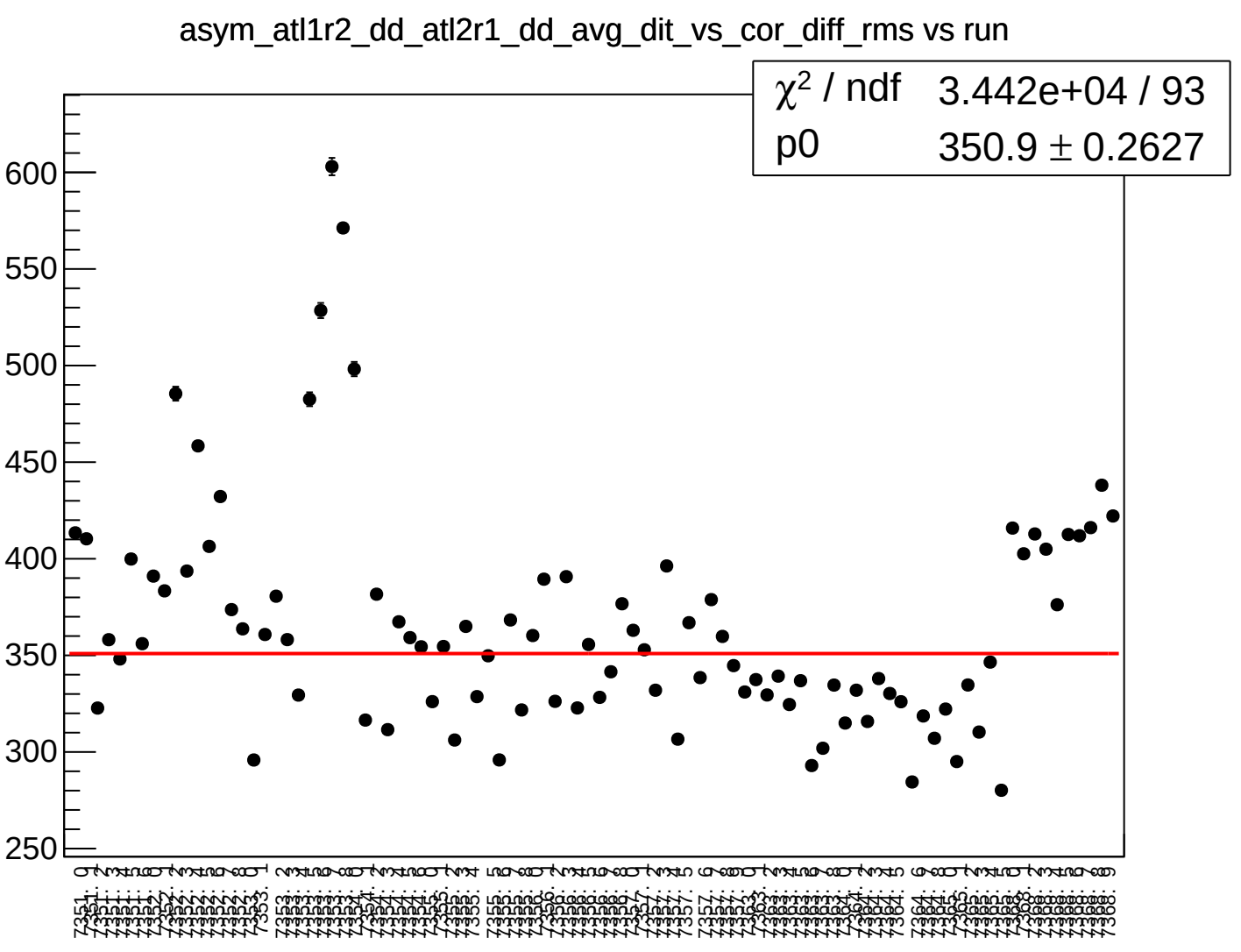

asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ^2 / ndf 170 / 93
p0 1218 ± 0.903
1260
1250
1240
1230
1220
1210
1200
1190
1180

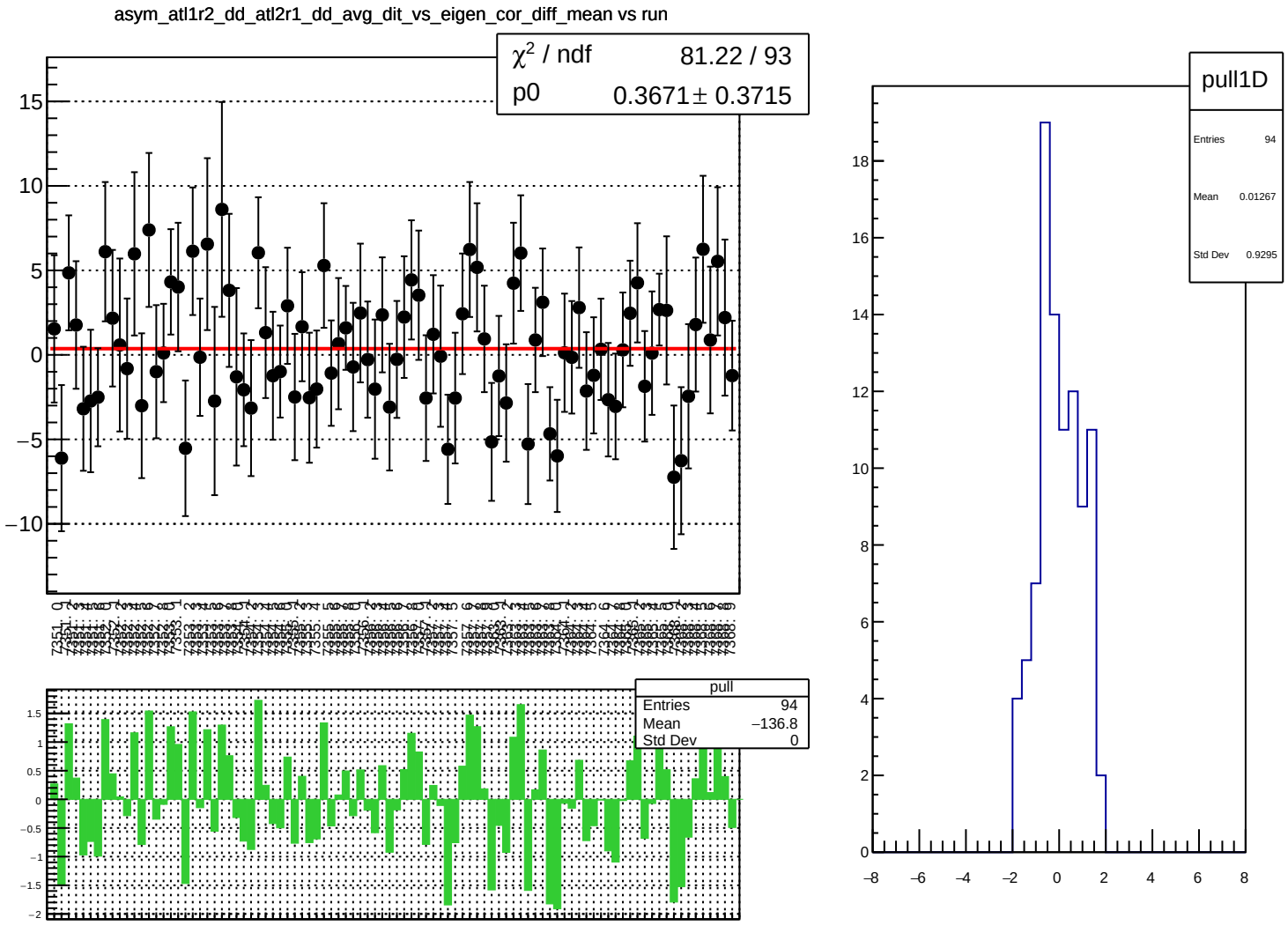

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 165.6 / 93
p0 5.602e−15 ± 6.612e−15
0.04
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 94
Mean 24.09
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.09333
Std Dev 1.324
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

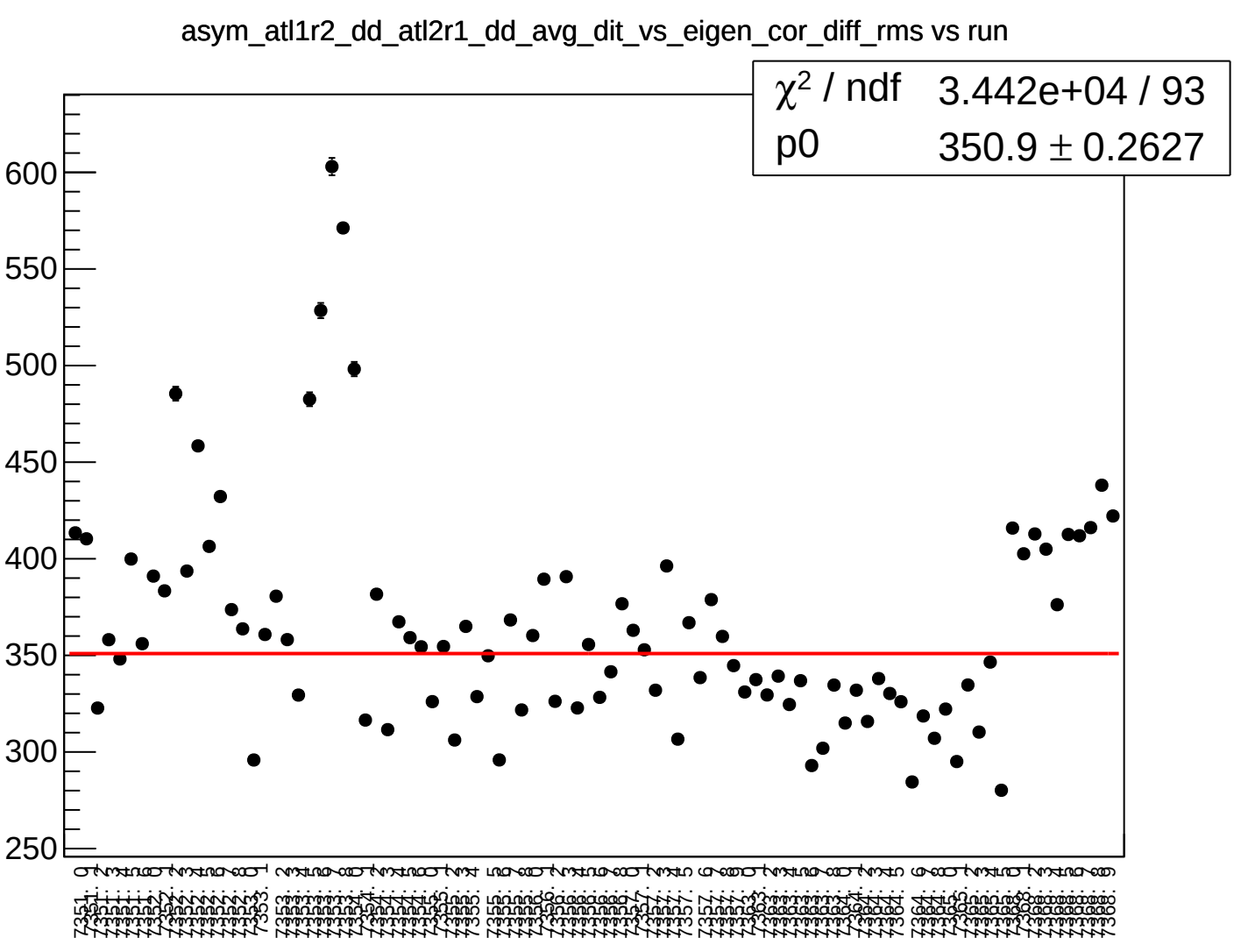

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.345e+06 / 93
p0 3.219e−12 ± 4.676e−15
1.2
1
0.8
0.6
0.4
0.2
0

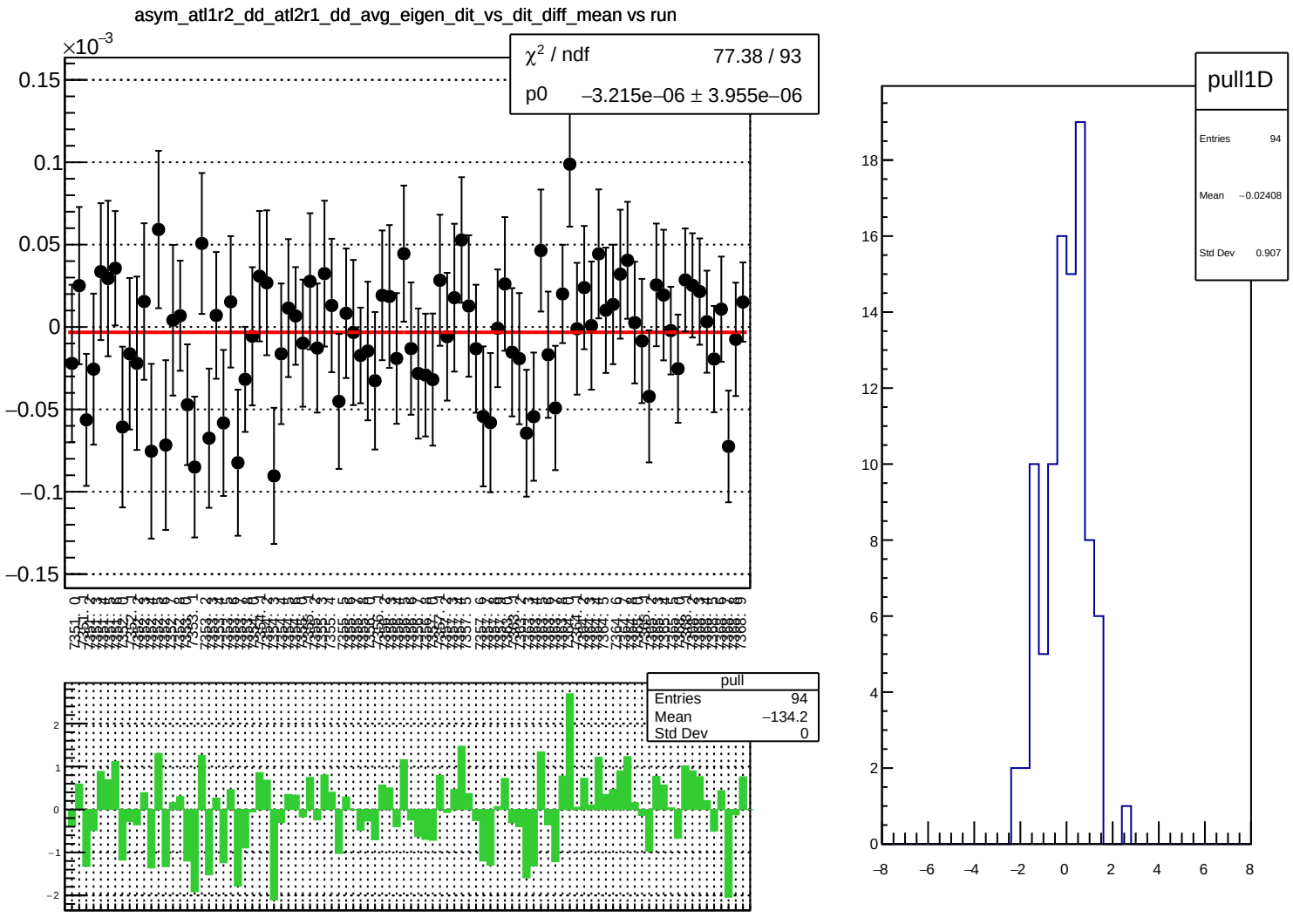

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 81.22 / 93
p0 0.3671 ± 0.3715
pull
Entries 94
Mean −136.8
Std Dev 0

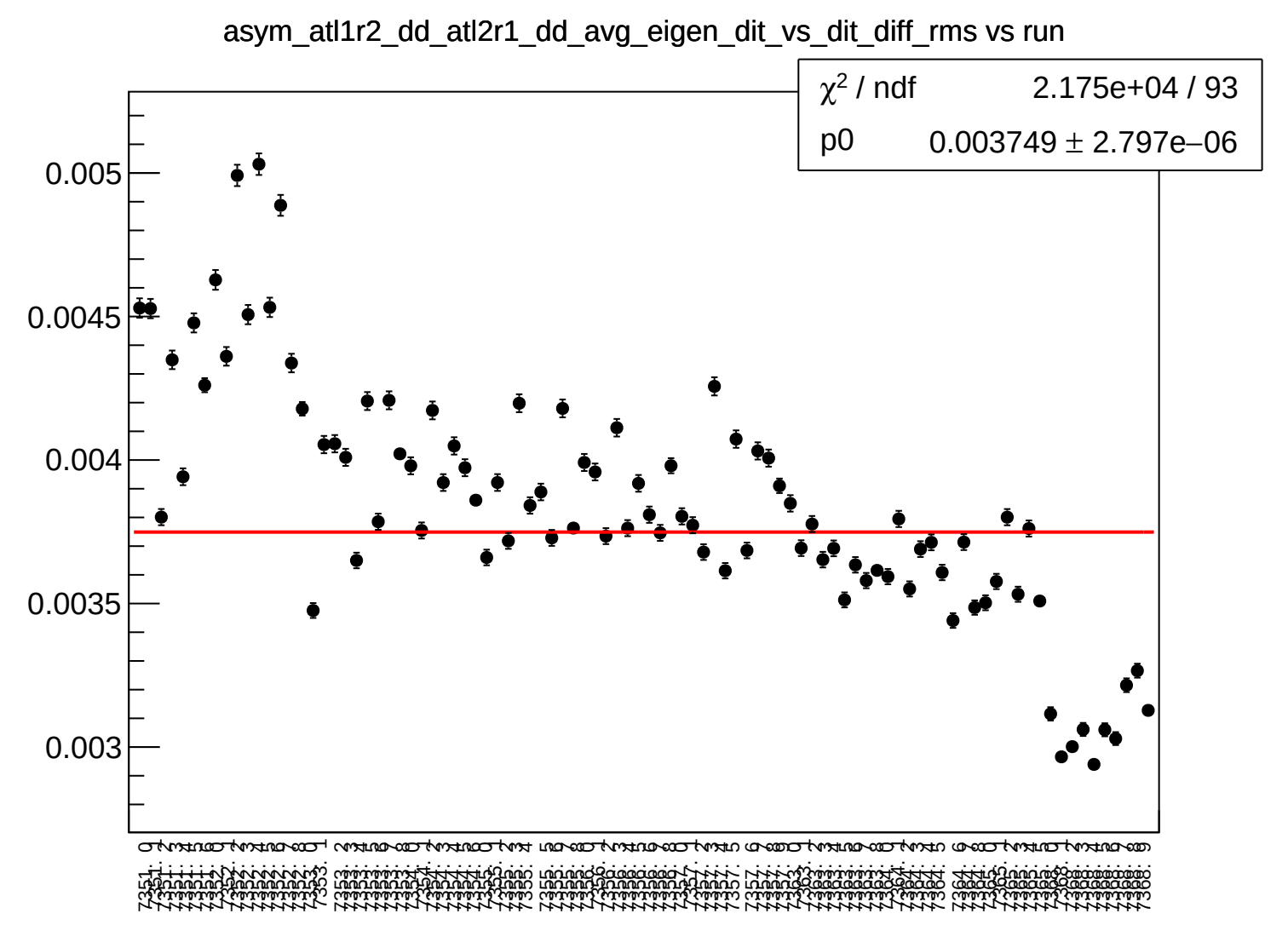

pull1D
Entries 94
Mean 0.01267
Std Dev 0.9295

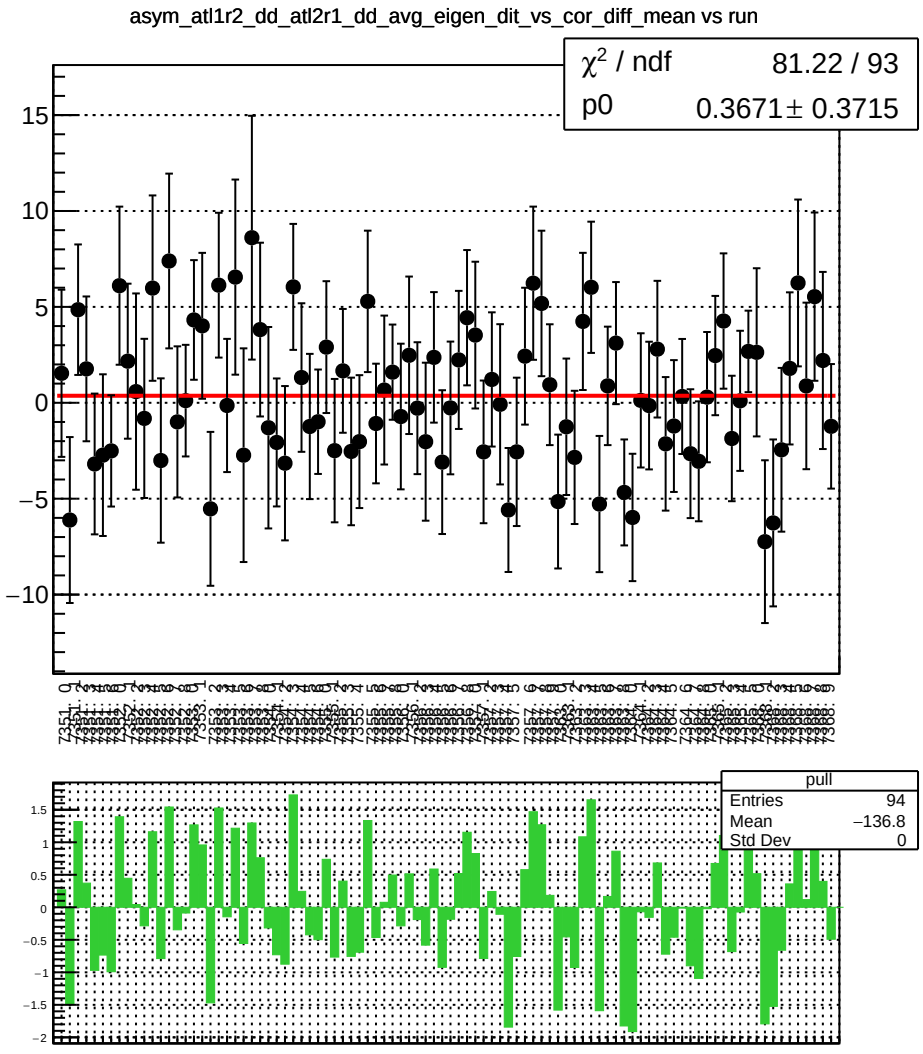

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.442e+04 / 93
p0 350.9 ± 0.2627
600
550
500
450
400
350
300
250

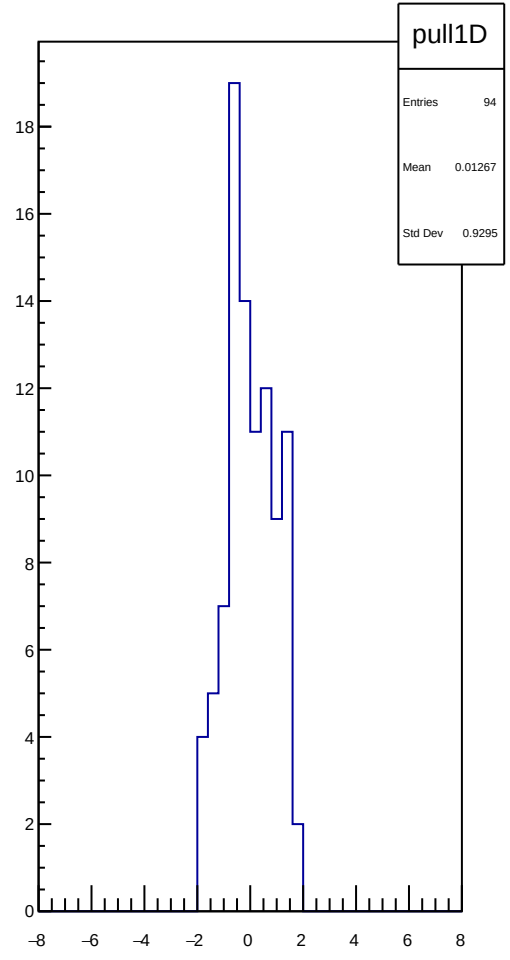

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.22 / 93
p0 0.3671 ± 0.3715
pull
Entries 94
Mean −136.8
Std Dev 0
pull1D
Entries 94
Mean 0.01267
Std Dev 0.9295

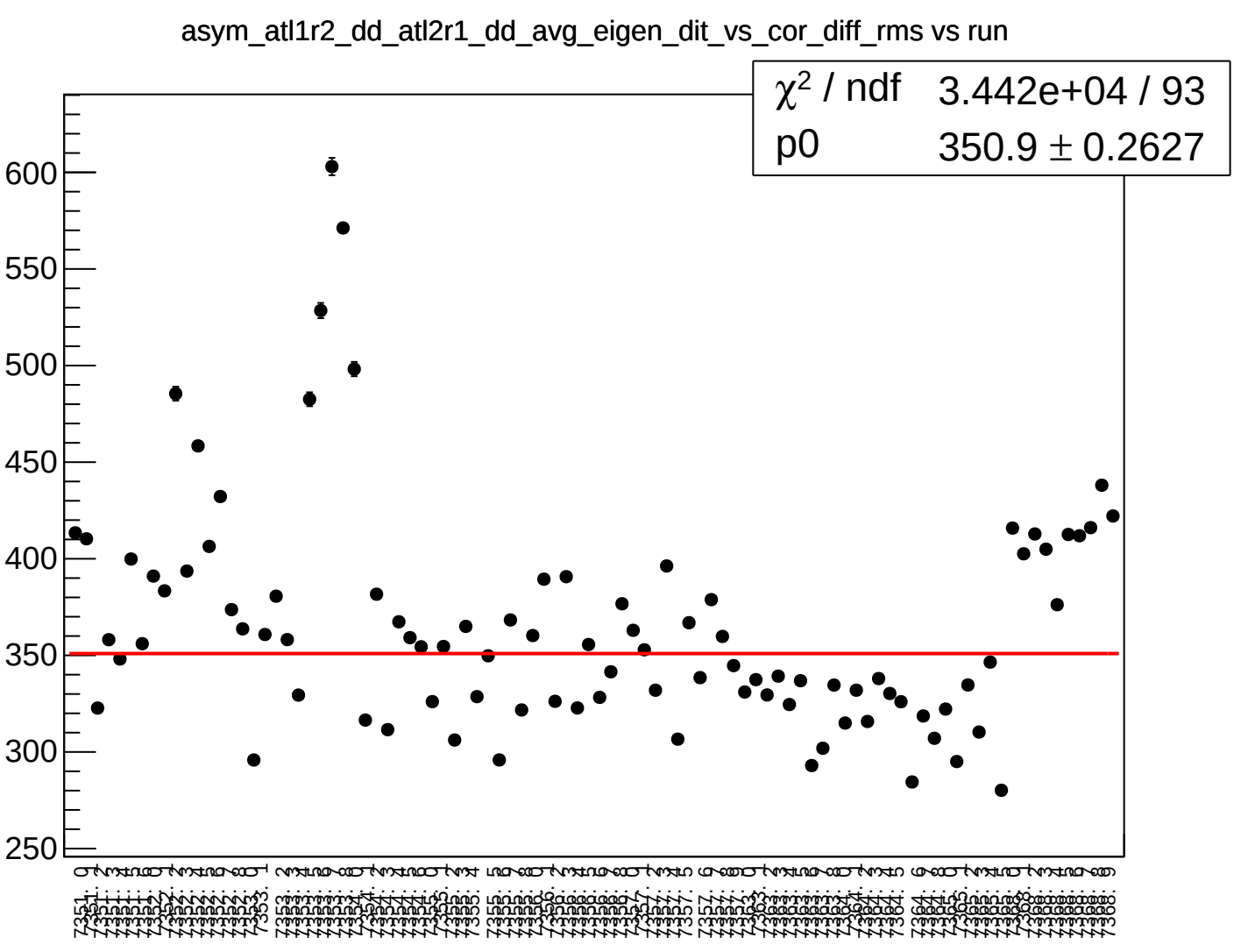

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.442e+04 / 93
p0 350.9 ± 0.2627
600
550
500
450
400
350
300
250

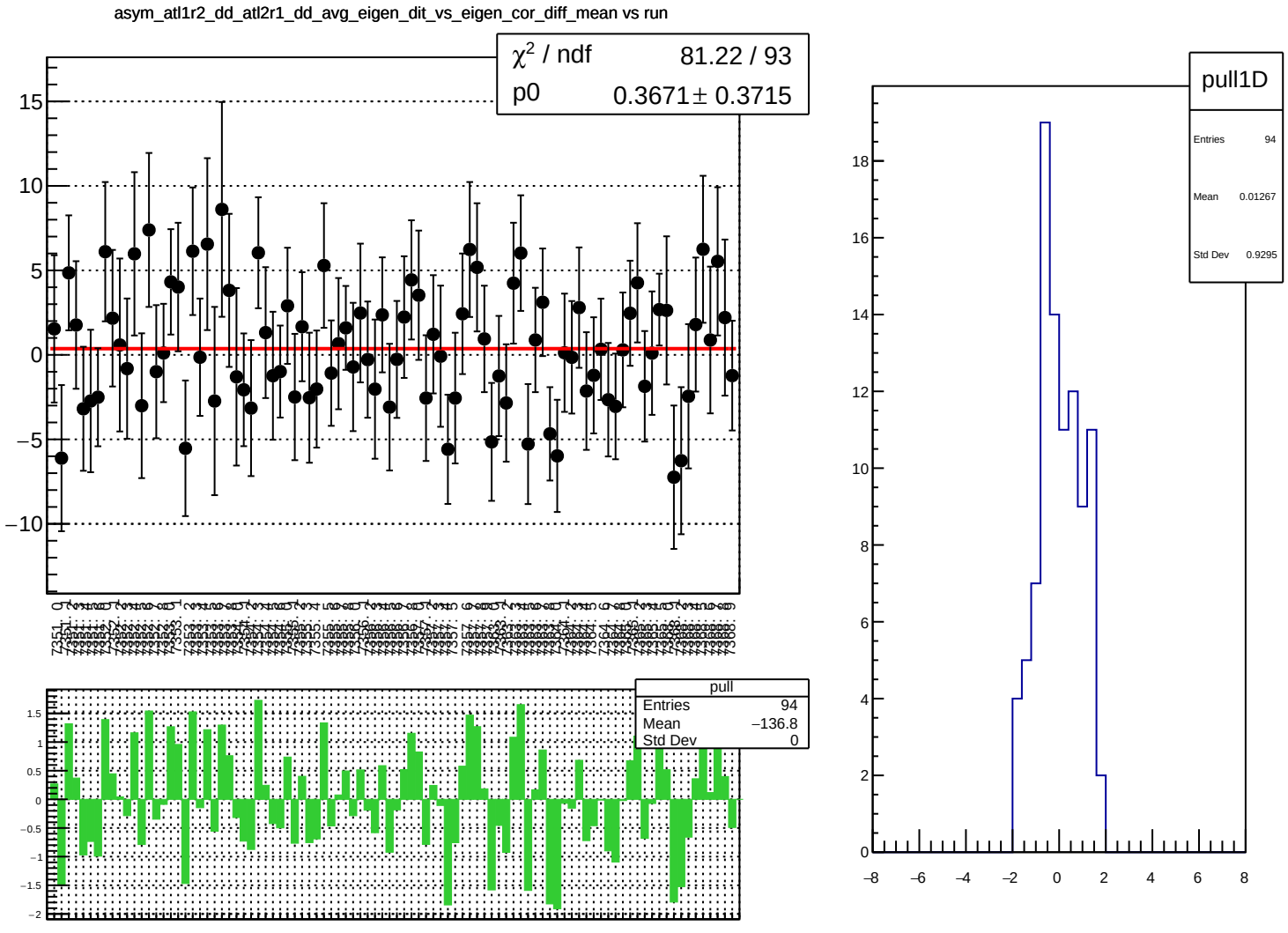

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 77.38 / 93
p0 −3.215e−06 ± 3.955e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 94
Mean −134.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.02408
Std Dev 0.907
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

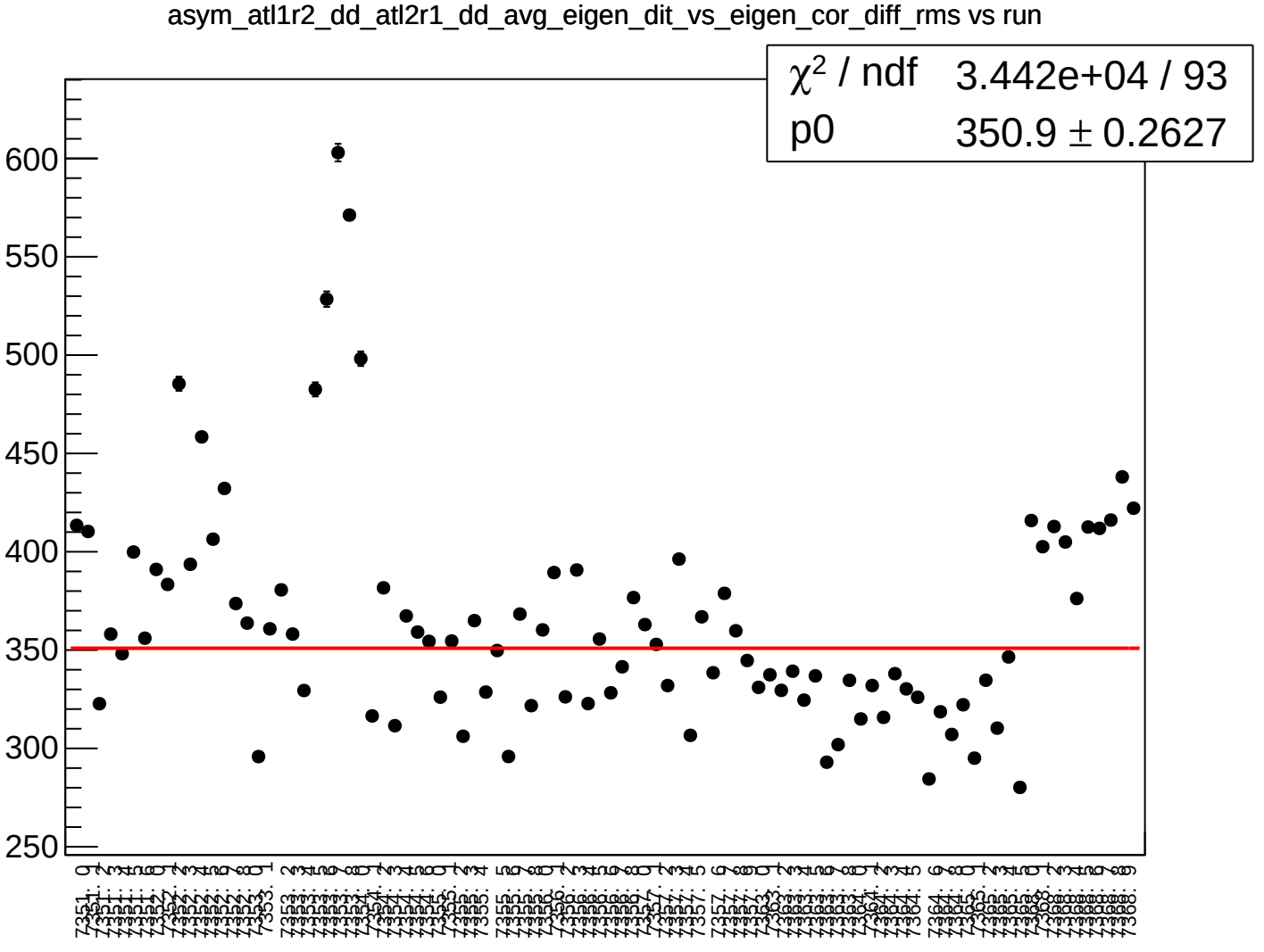

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.175e+04 / 93
p0 0.003749 ± 2.797e−06
0.005
0.0045
0.004
0.0035
0.003

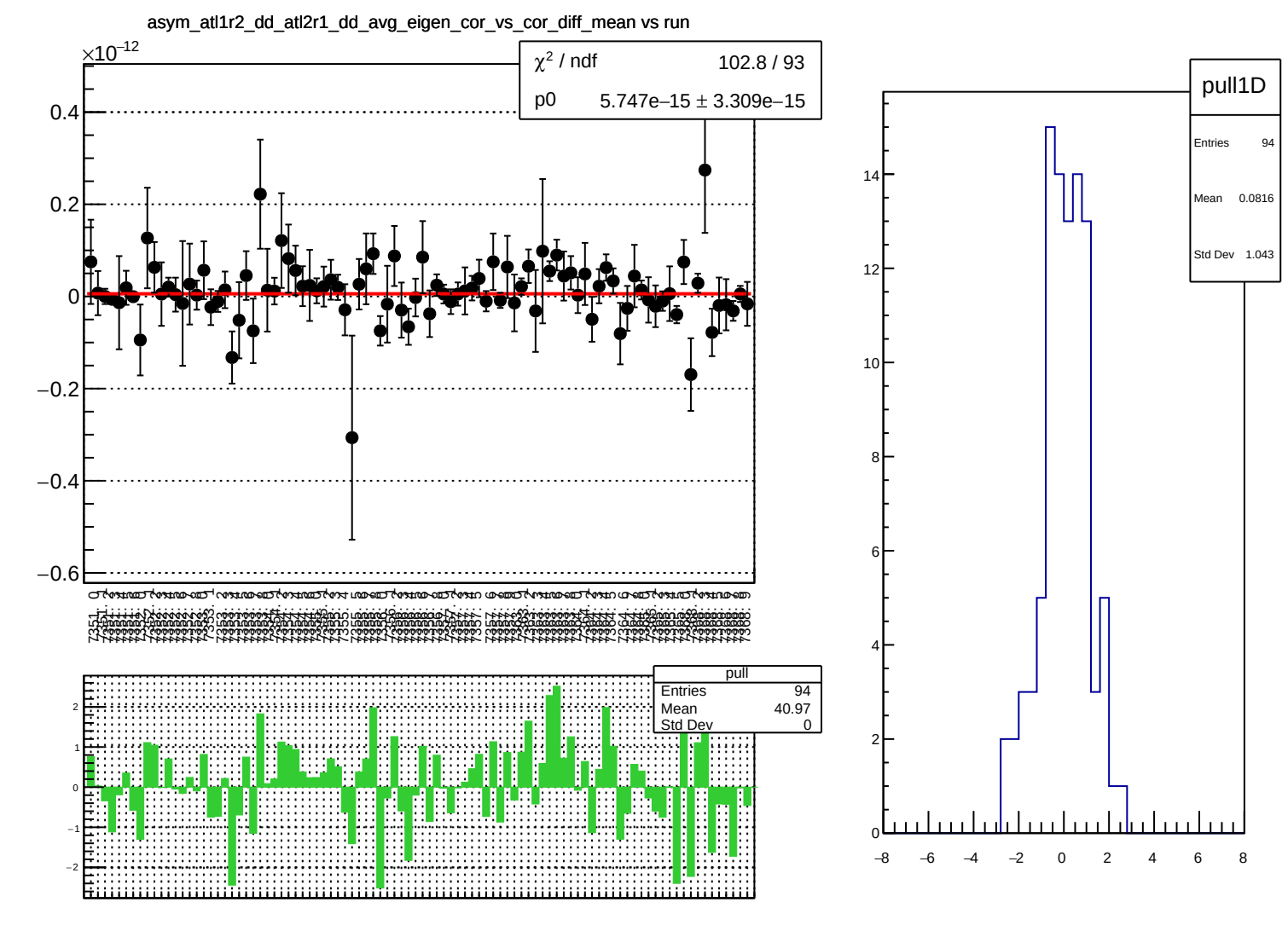

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.22 / 93
p0 0.3671 ± 0.3715
pull
Entries 94
Mean −136.8
Std Dev 0

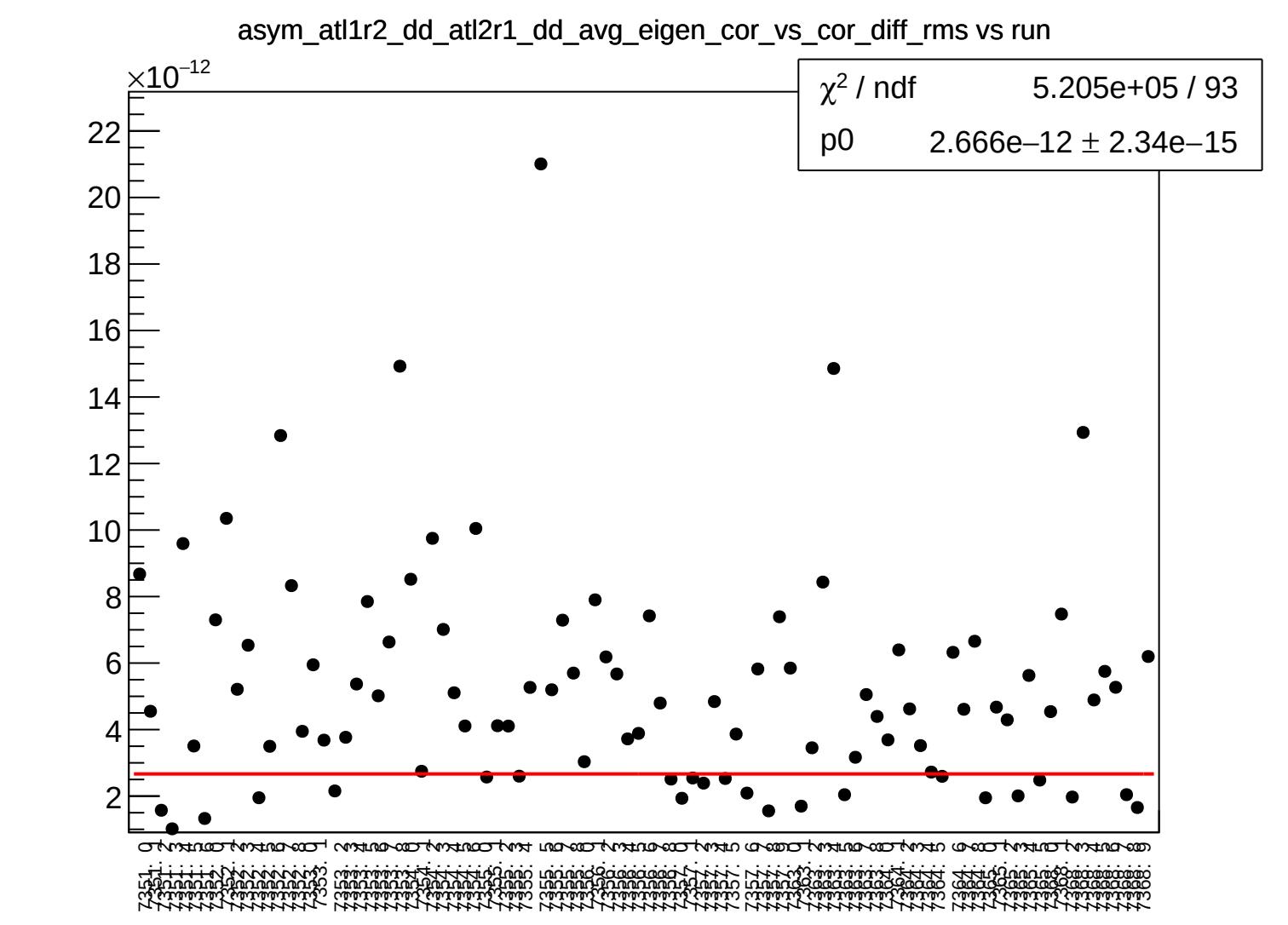

pull1D
Entries 94
Mean 0.01267
Std Dev 0.9295

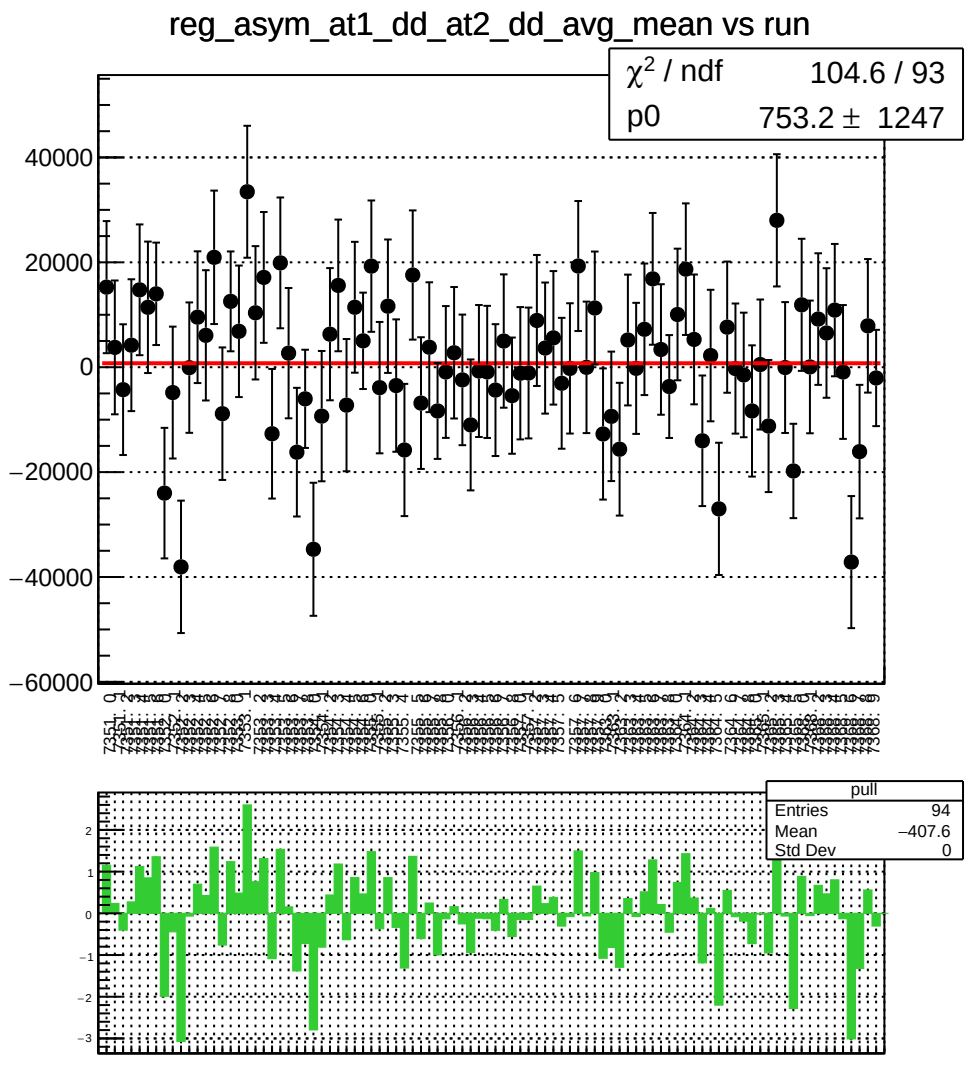

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.442e+04 / 93
p0 350.9 ± 0.2627
600
550
500
450
400
350
300
250

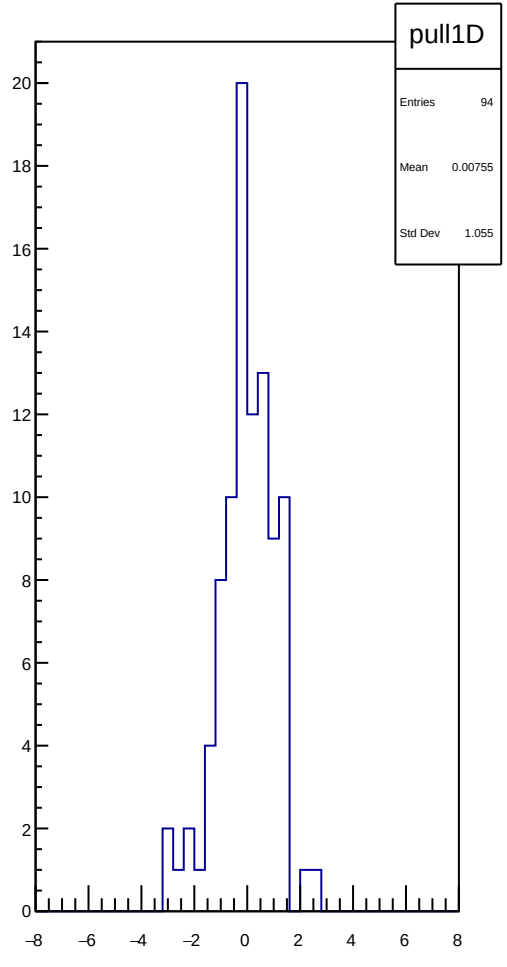

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.22 / 93
p0 0.3671 ± 0.3715
pull
Entries 94
Mean −136.8
Std Dev 0
pull1D
Entries 94
Mean 0.01267
Std Dev 0.9295

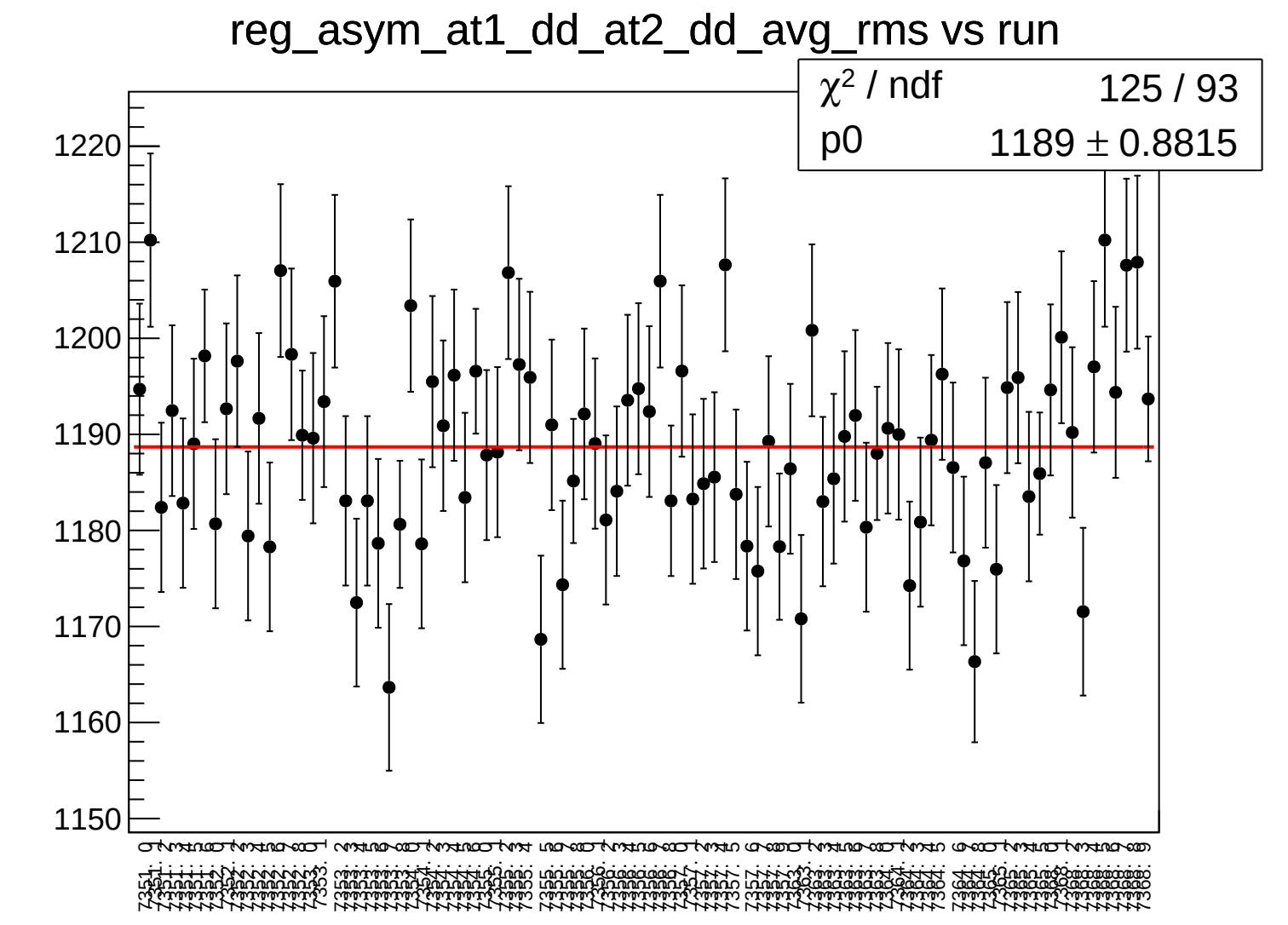

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.442e+04 / 93
p0 350.9 ± 0.2627
600
550
500
450
400
350
300
250

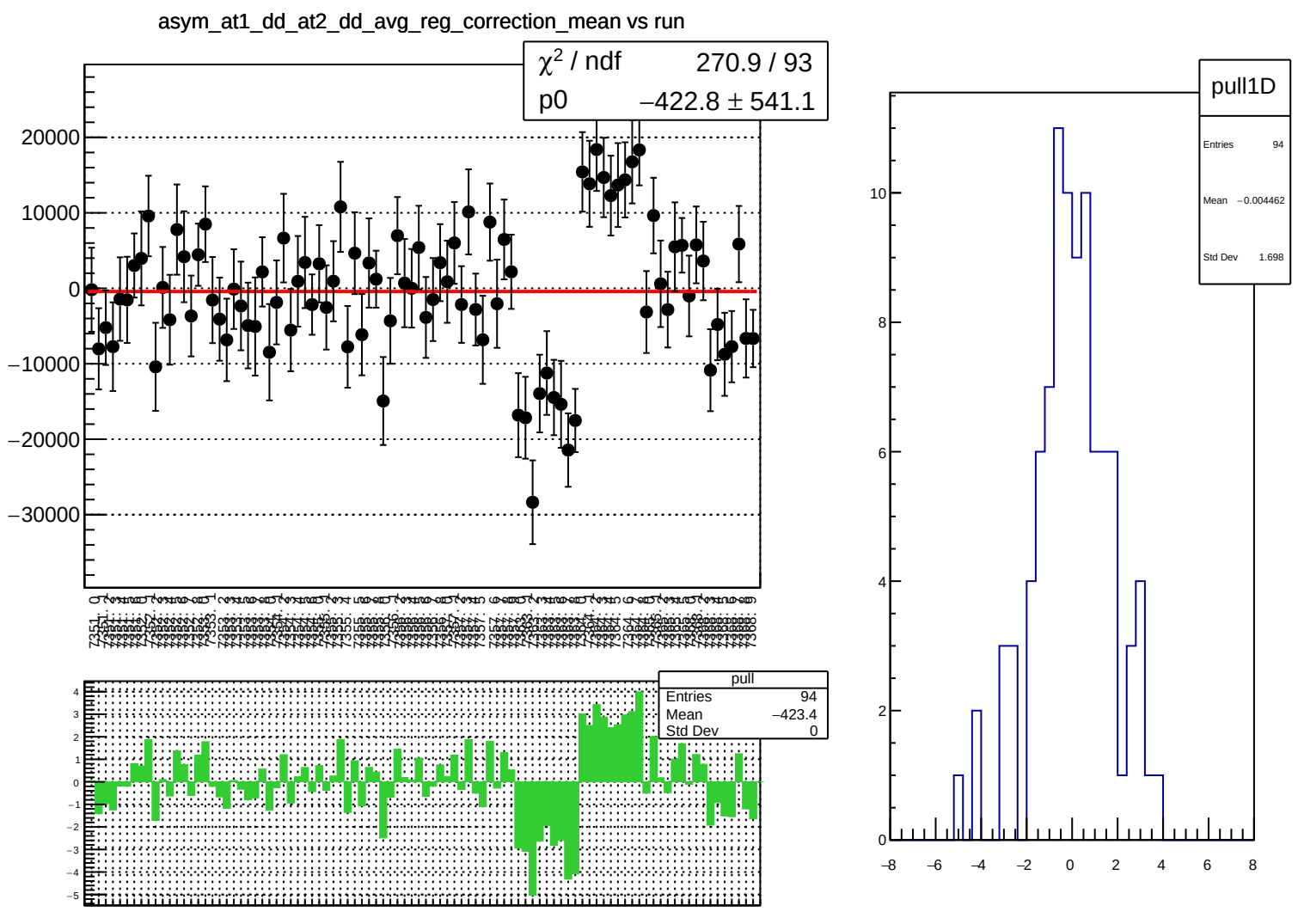

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 102.8 / 93
p0 5.747e−15 ± 3.309e−15
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 94
Mean 40.97
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.0816
Std Dev 1.043
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

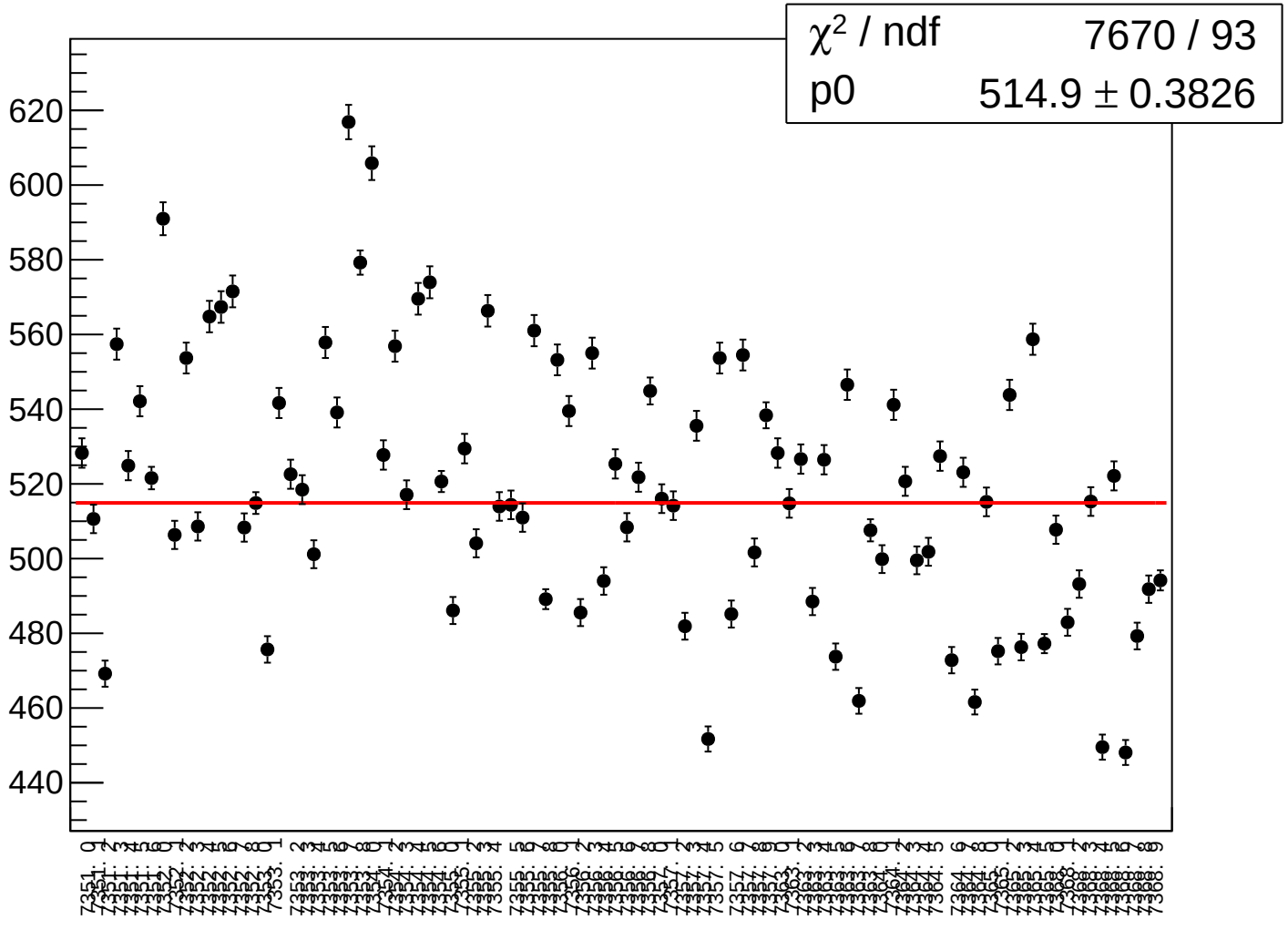

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.205e+05 / 93
p0 2.666e−12 ± 2.34e−15
22
20
18
16
14
12
10
8
6
4
2

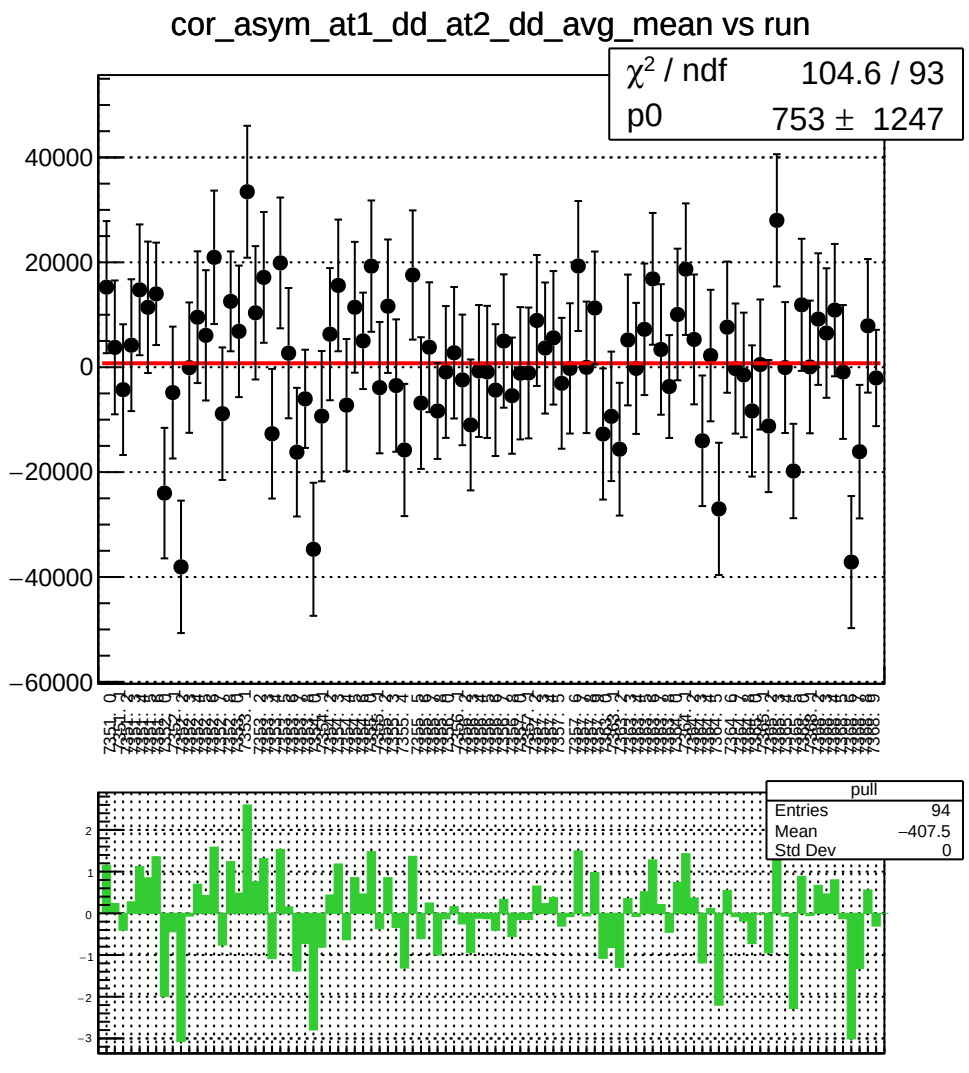

reg_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 104.6 / 93
p0 753.2 ± 1247
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −407.6
Std Dev 0
2
1
0
−1
−2
−3

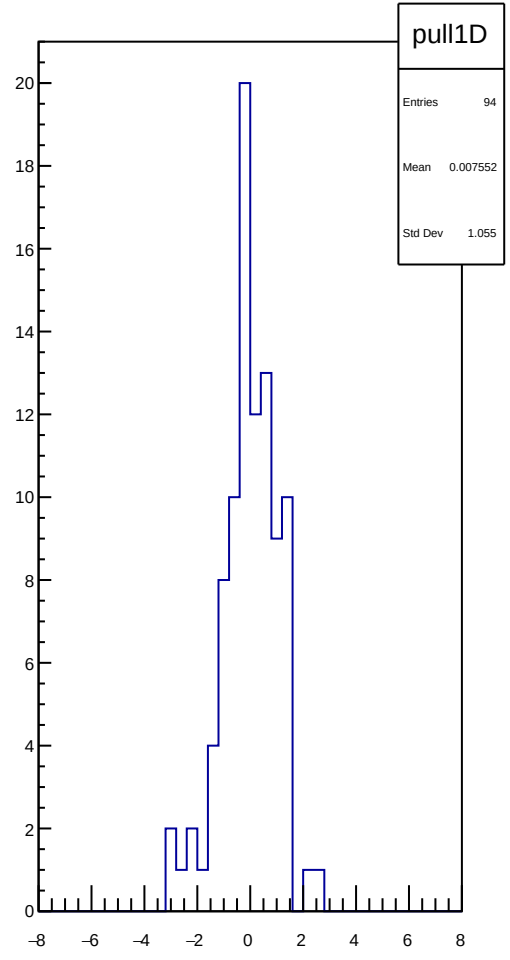

pull1D
Entries 94
Mean 0.00755
Std Dev 1.055
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

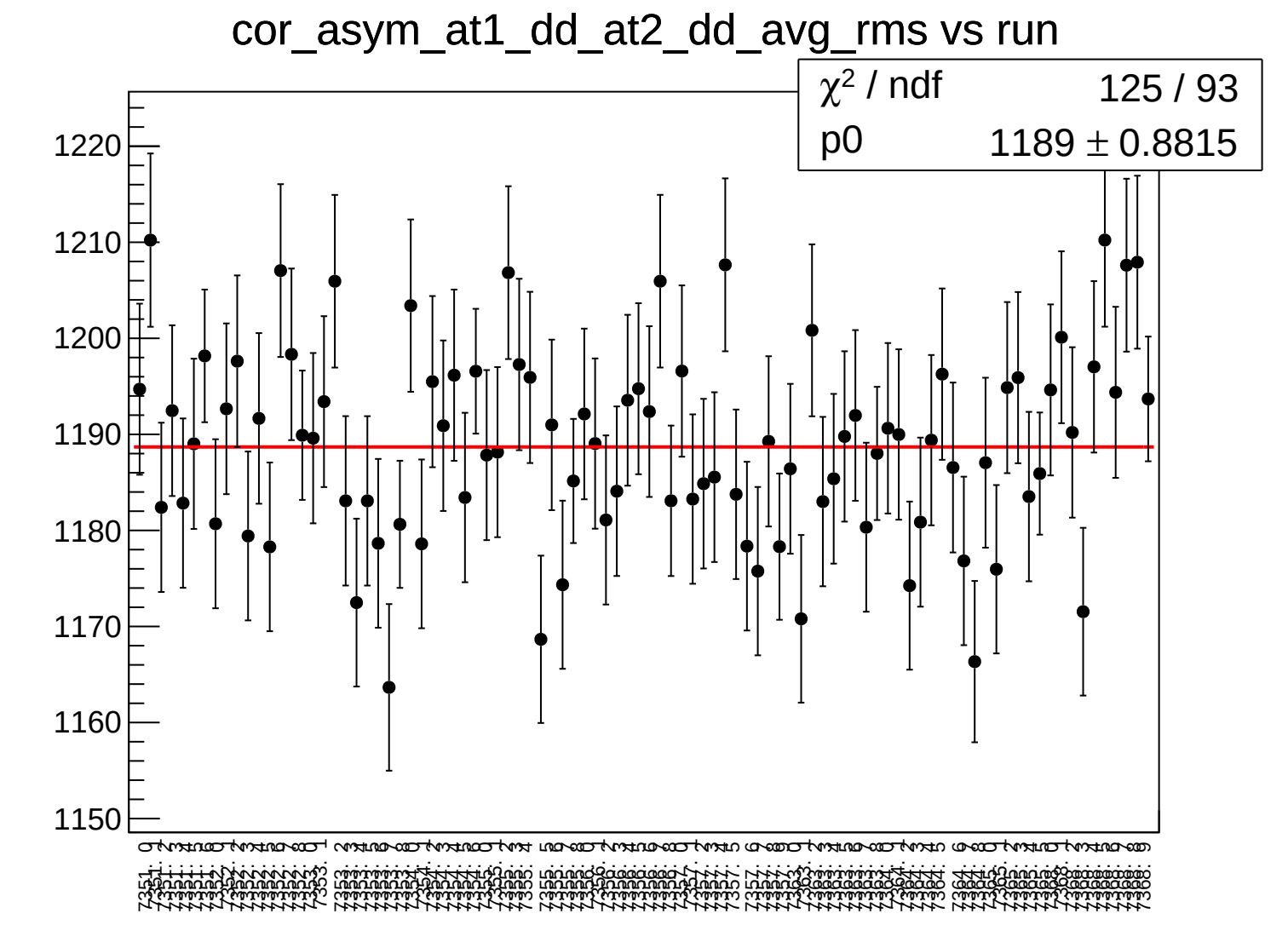

reg_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 125 / 93
p0 1189 ± 0.8815
1220
1210
1200
1190
1180
1170
1160
1150

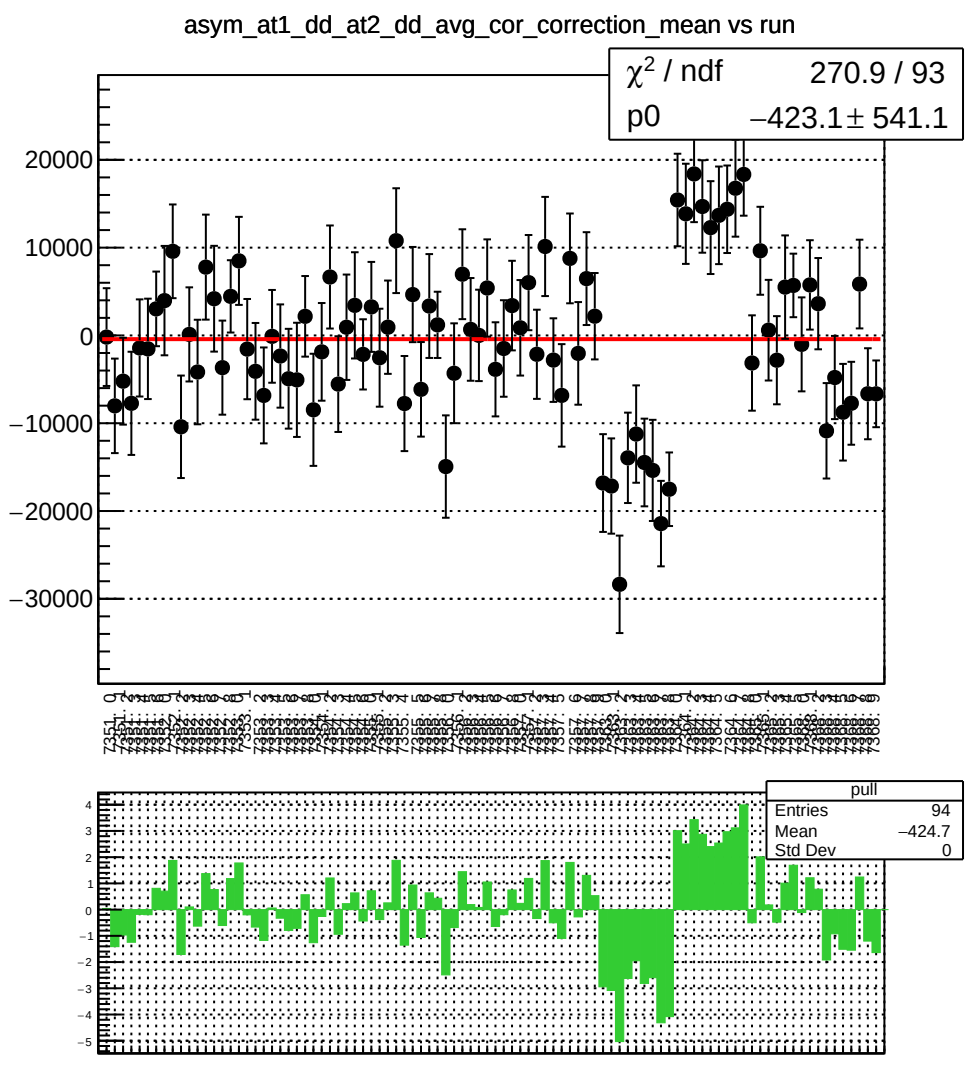

asym_at1_dd_at2_dd_avg_reg_correction_mean vs run
χ² / ndf 270.9 / 93
p0 −422.8 ± 541.1
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −423.4
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4
−5
pull1D
Entries 94
Mean −0.004462
Std Dev 1.698
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

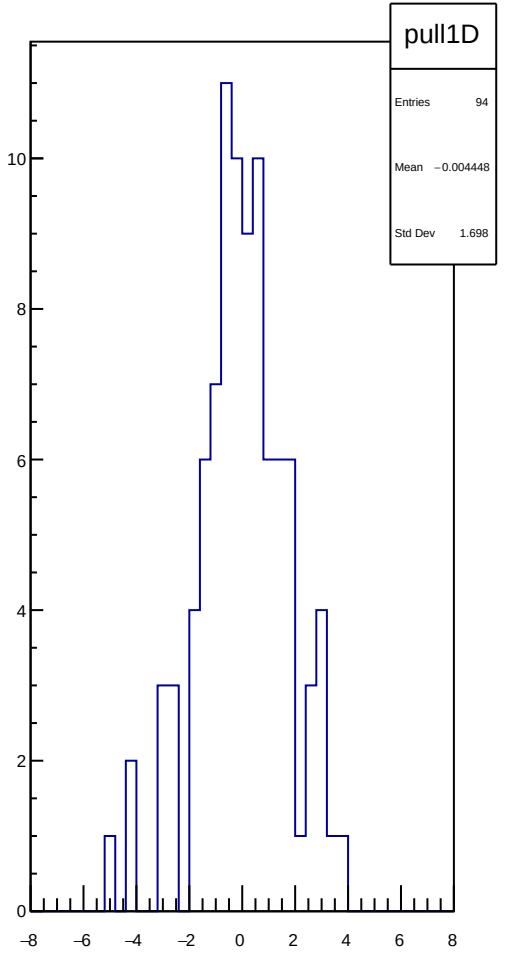

asym_at1_dd_at2_dd_avg_reg_correction_rms vs run
χ² / ndf 7670 / 93
p0 514.9 ± 0.3826
620
600
580
560
540
520
500
480
460
440

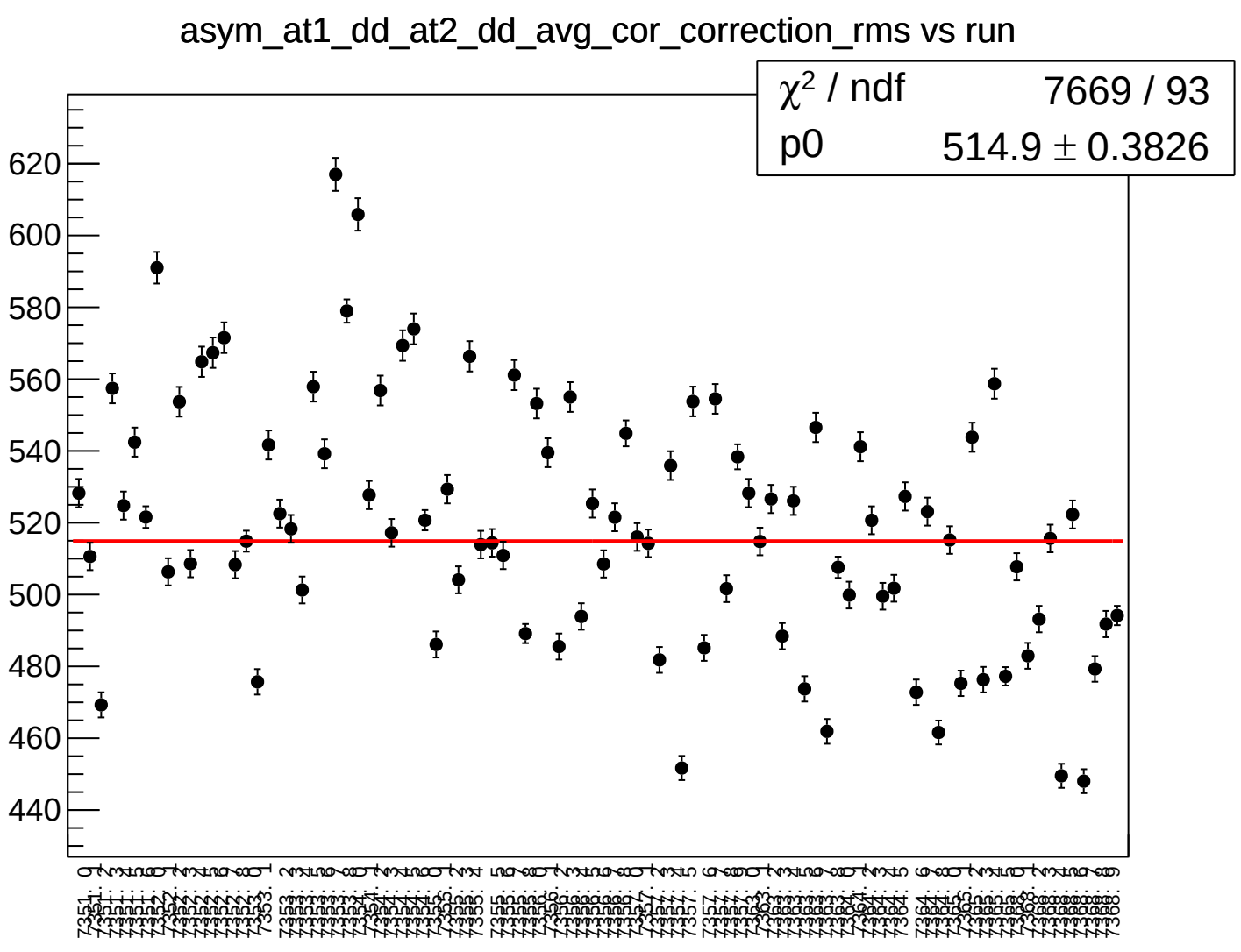

cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 104.6 / 93
p0 753 ± 1247
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −407.5
Std Dev 0
2
1
0
−1
−2
−3

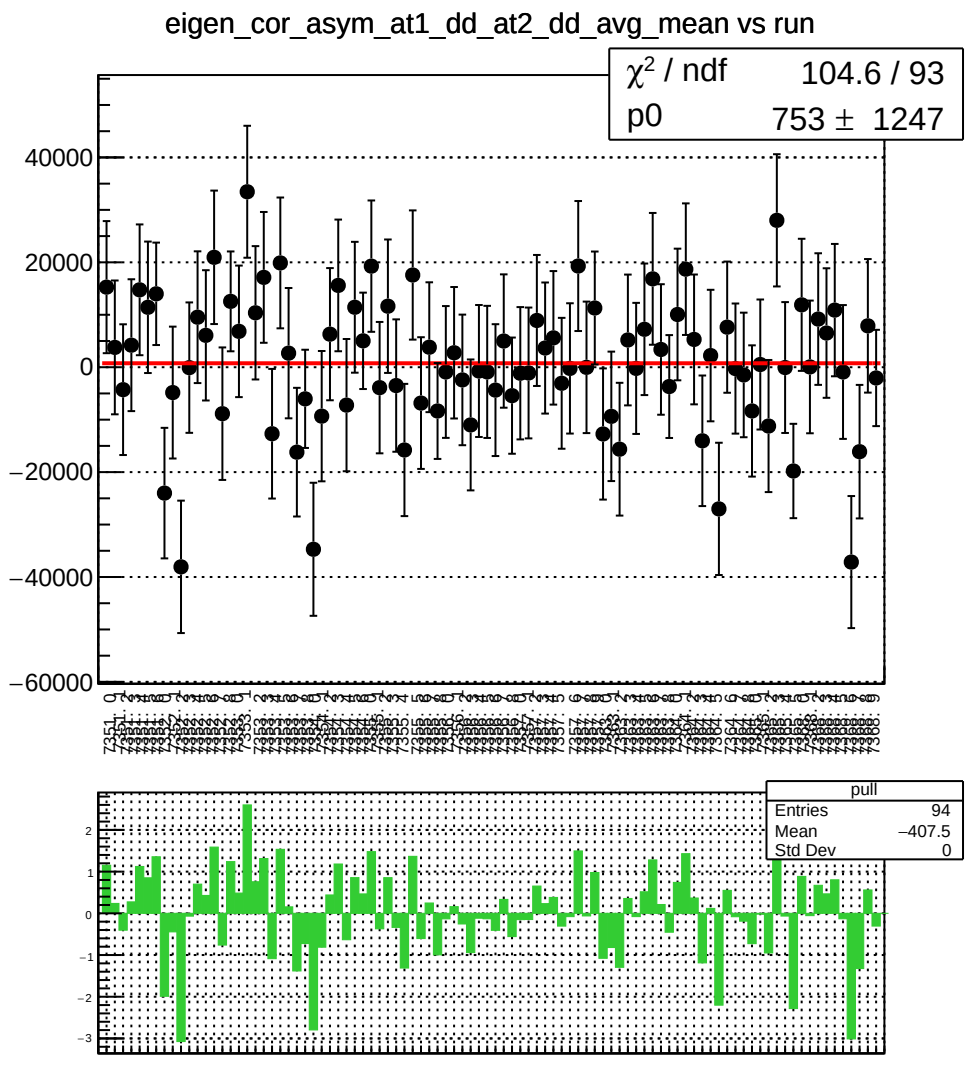

pull1D
Entries 94
Mean 0.007552
Std Dev 1.055
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

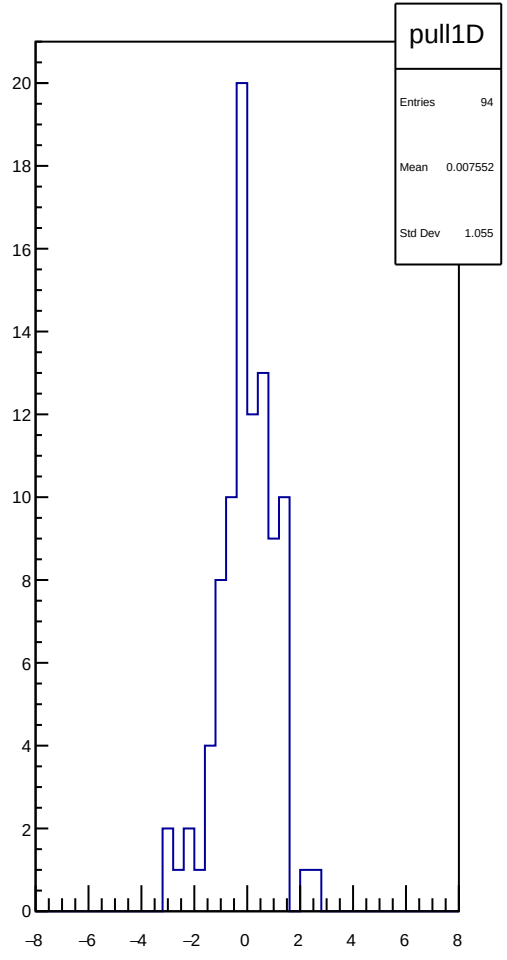

cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 125 / 93
p0 1189 ± 0.8815
1220
1210
1200
1190
1180
1170
1160
1150

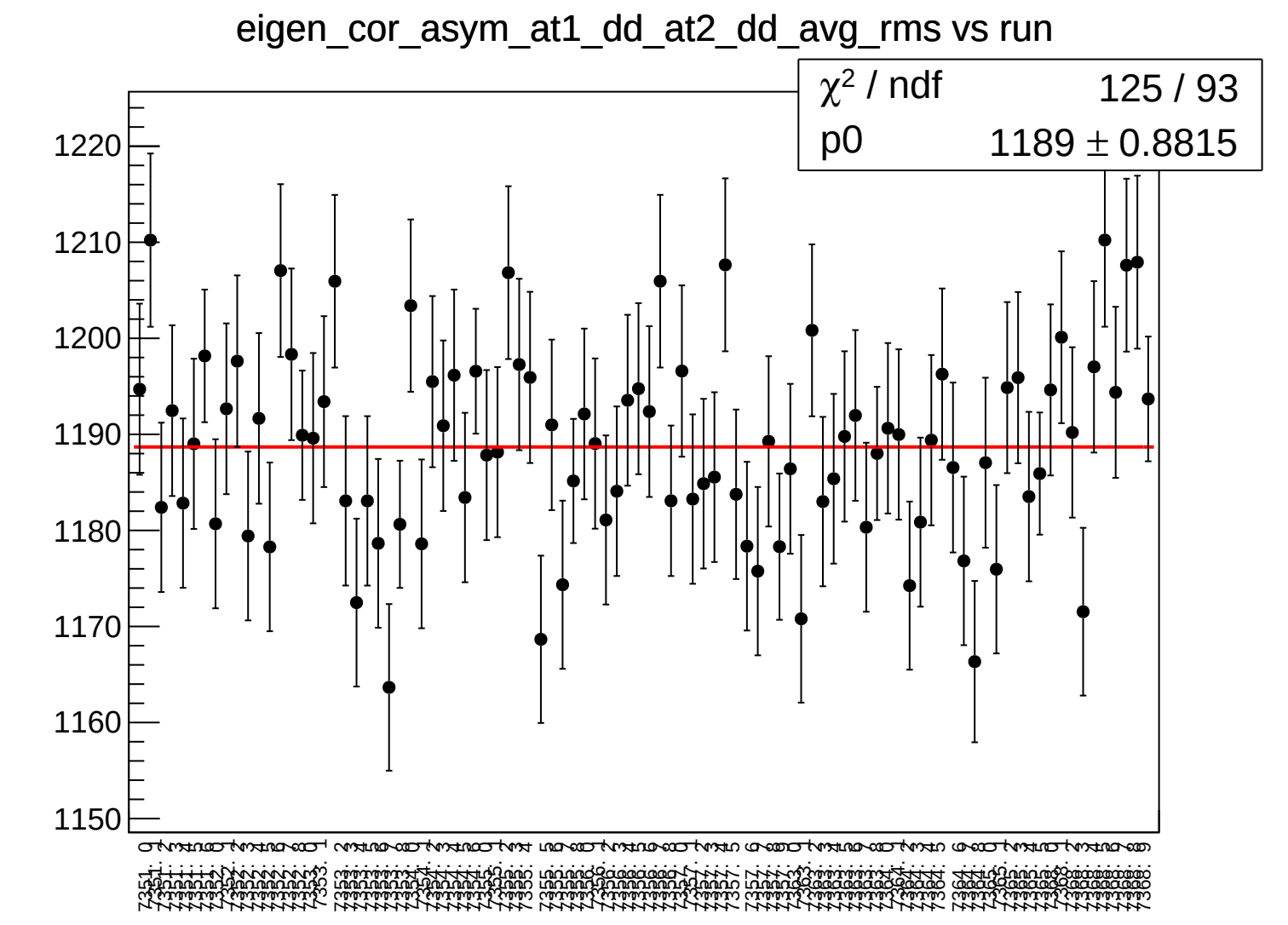

asym_at1_dd_at2_dd_avg_cor_correction_mean vs run
χ² / ndf 270.9 / 93
p0 −423.1 ± 541.1
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −424.7
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4
−5

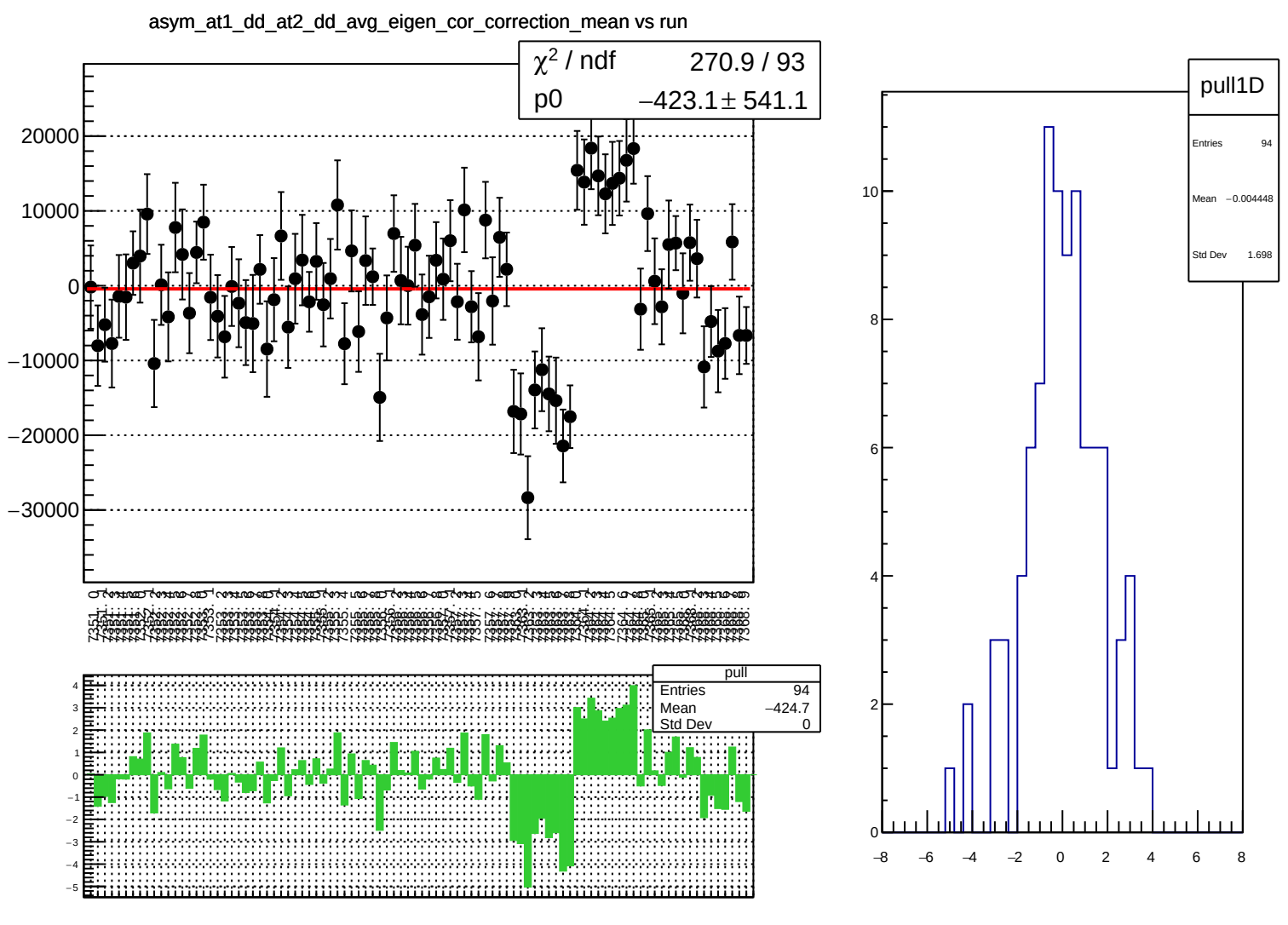

pull1D
Entries 94
Mean −0.004448
Std Dev 1.698
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

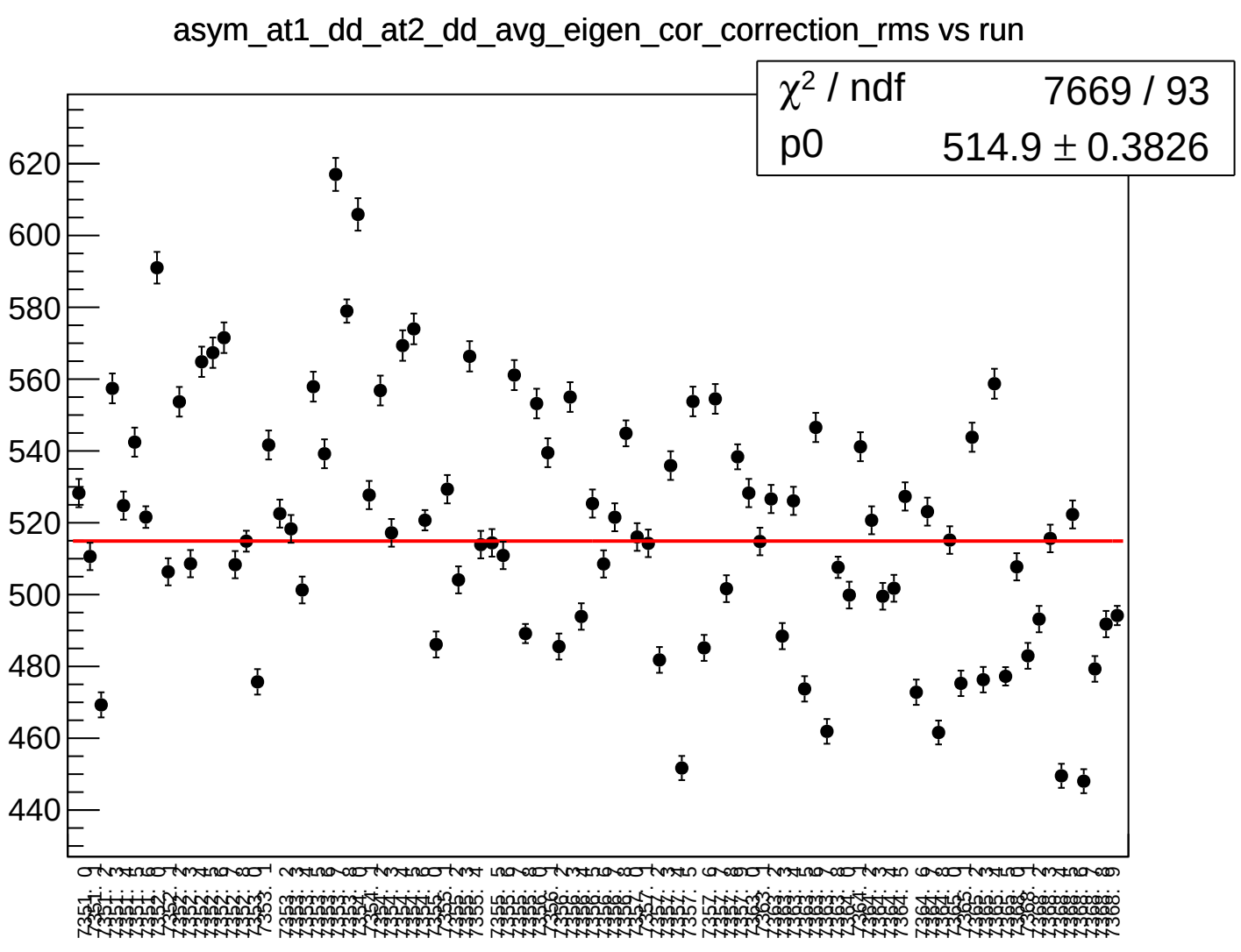

asym_at1_dd_at2_dd_avg_cor_correction_rms vs run
χ² / ndf 7669 / 93
p0 514.9 ± 0.3826
620
600
580
560
540
520
500
480
460
440

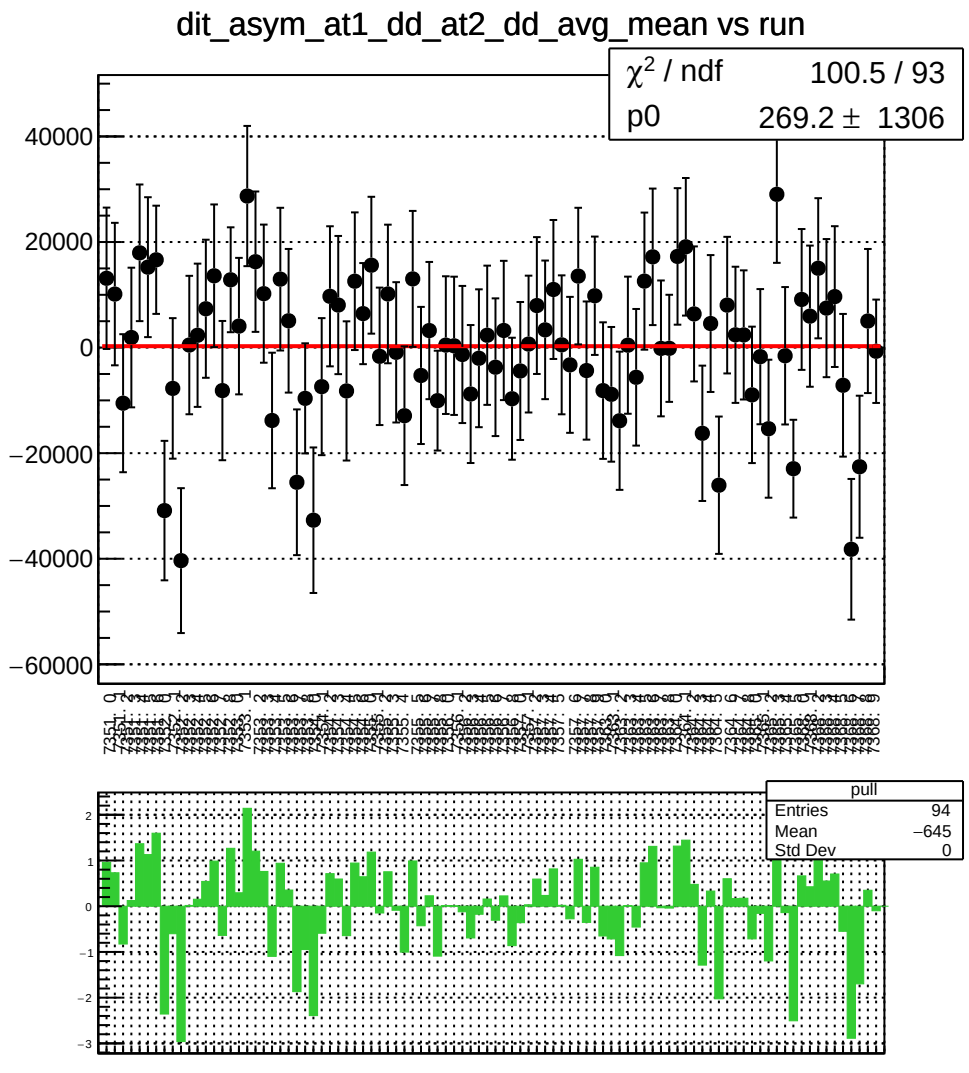

eigen_cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 104.6 / 93
p0 753 ± 1247
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −407.5
Std Dev 0
2
1
0
−1
−2
−3

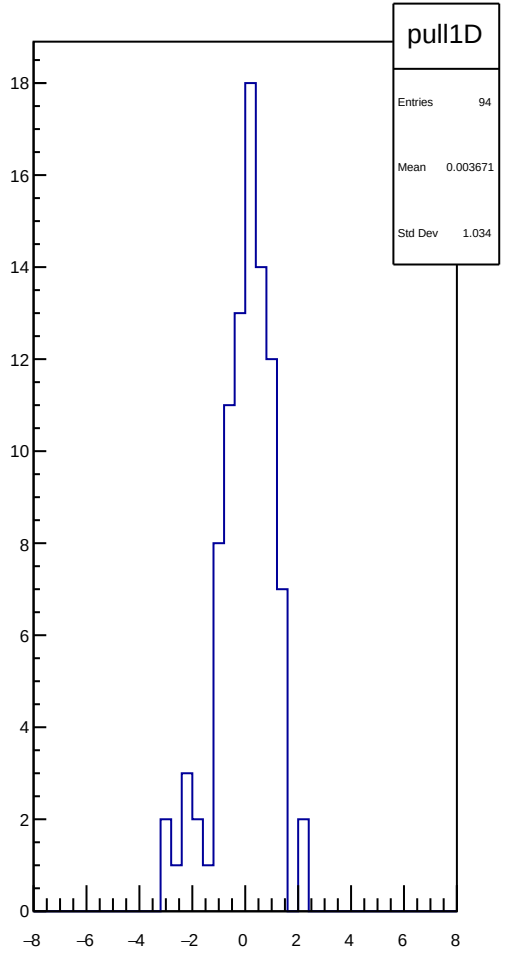

pull1D
Entries 94
Mean 0.007552
Std Dev 1.055
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

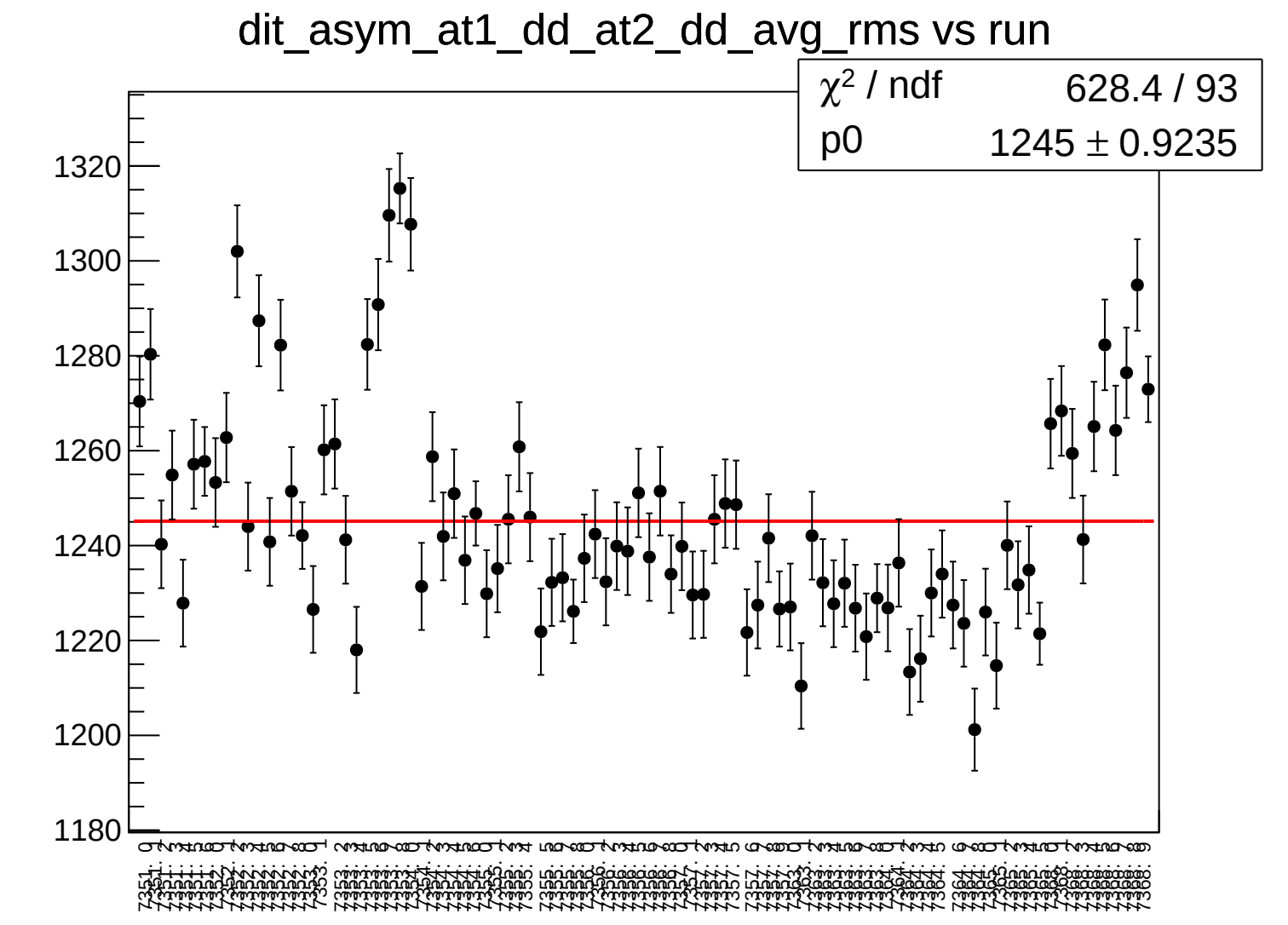

eigen_cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 125 / 93
p0 1189 ± 0.8815
1220
1210
1200
1190
1180
1170
1160
1150

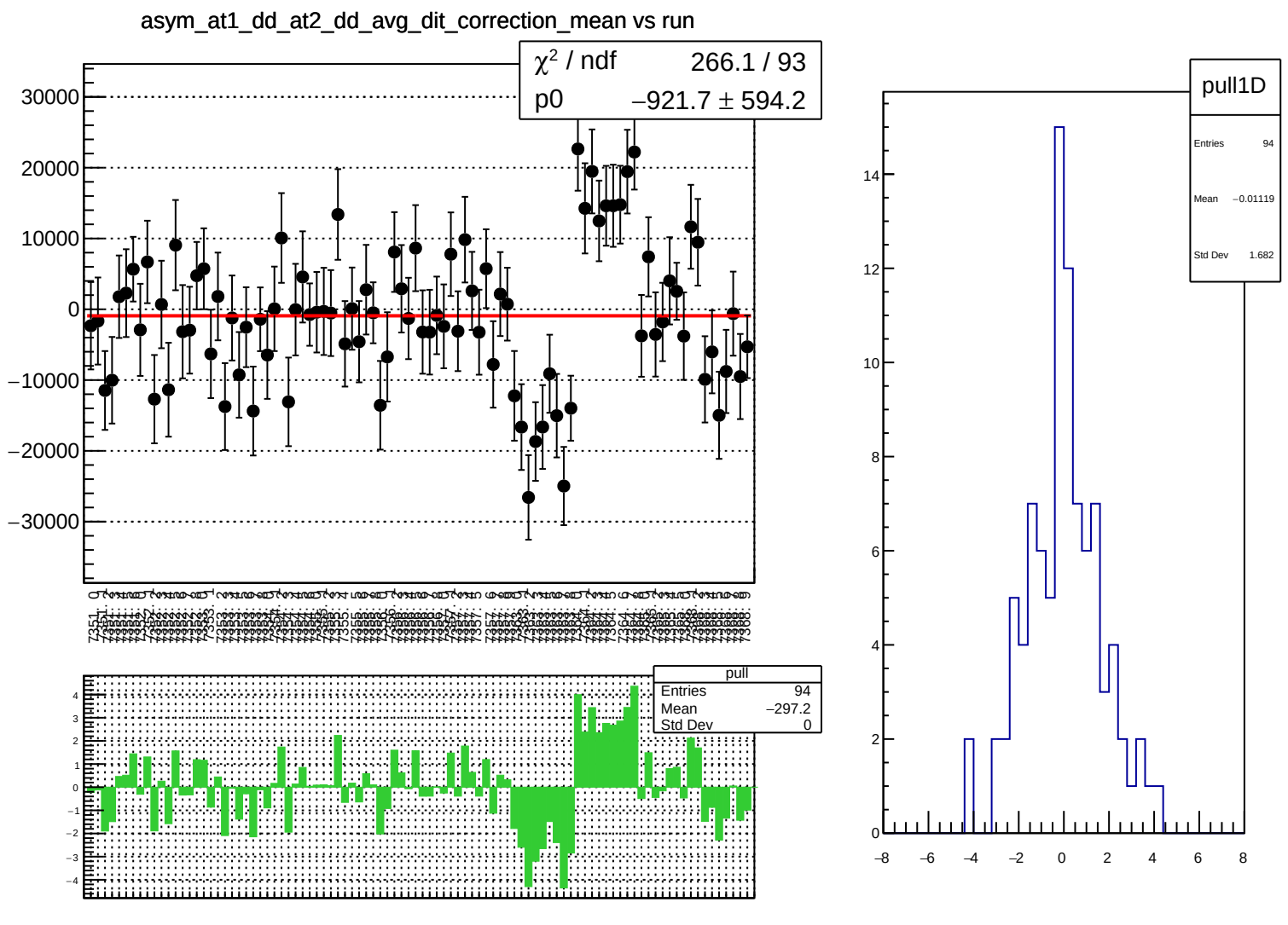

asym_at1_dd_at2_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 270.9 / 93
p0 −423.1 ± 541.1
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −424.7
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4
−5
pull1D
Entries 94
Mean −0.004448
Std Dev 1.698
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

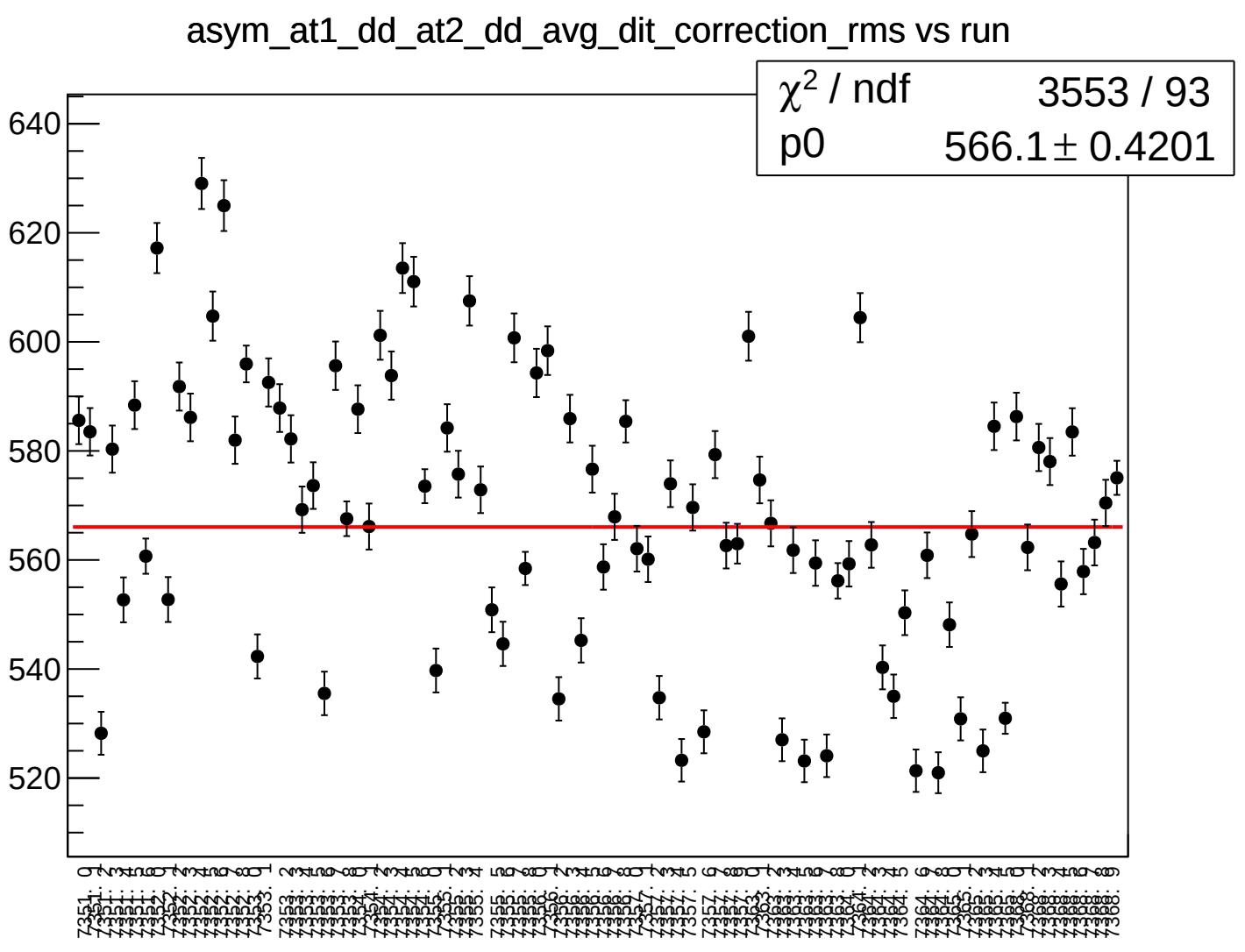

asym_at1_dd_at2_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 7669 / 93
p0 514.9 ± 0.3826
620
600
580
560
540
520
500
480
460
440

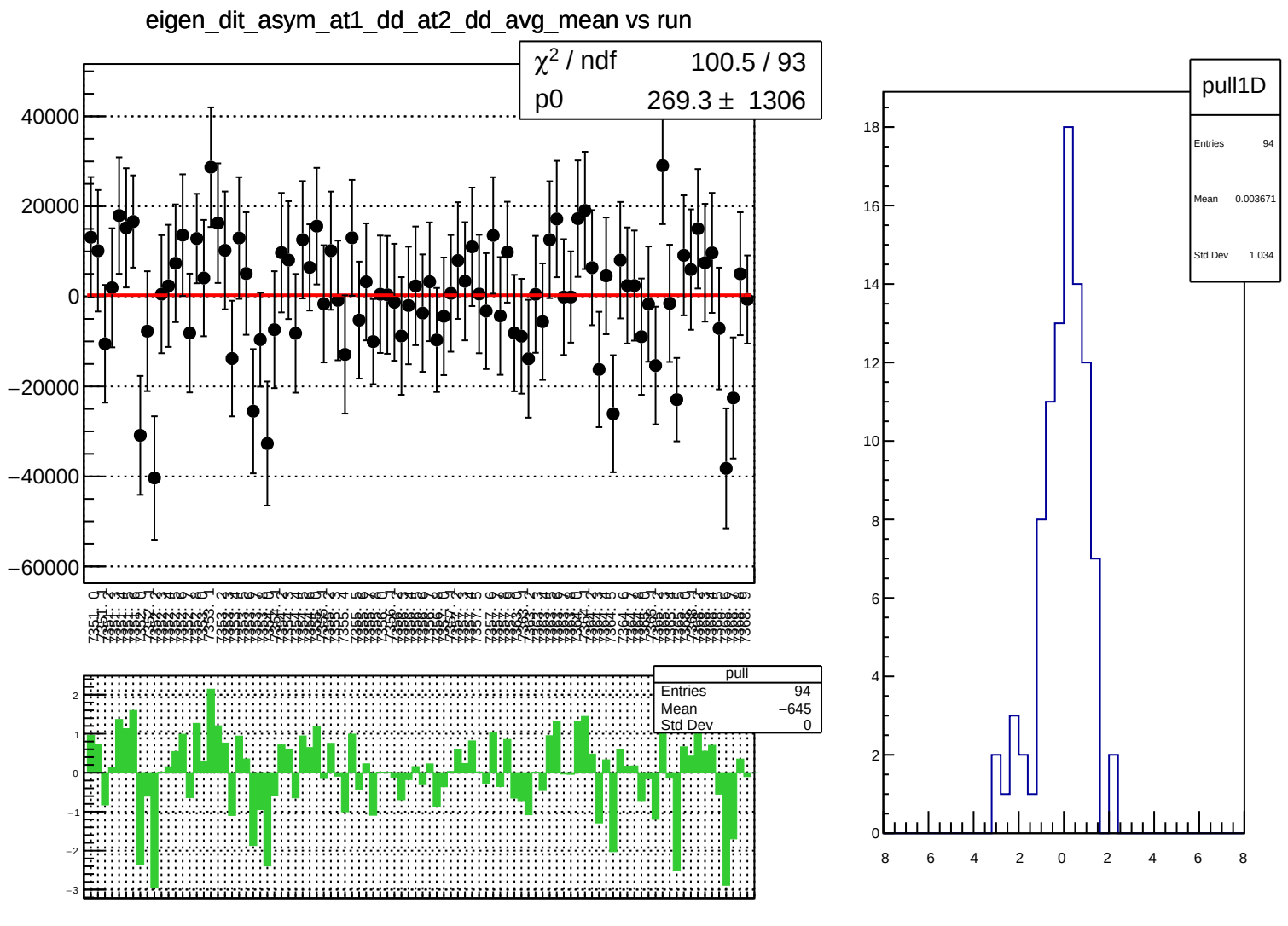

dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 100.5 / 93
p0 269.2 ± 1306
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −645
Std Dev 0
2
1
0
−1
−2
−3

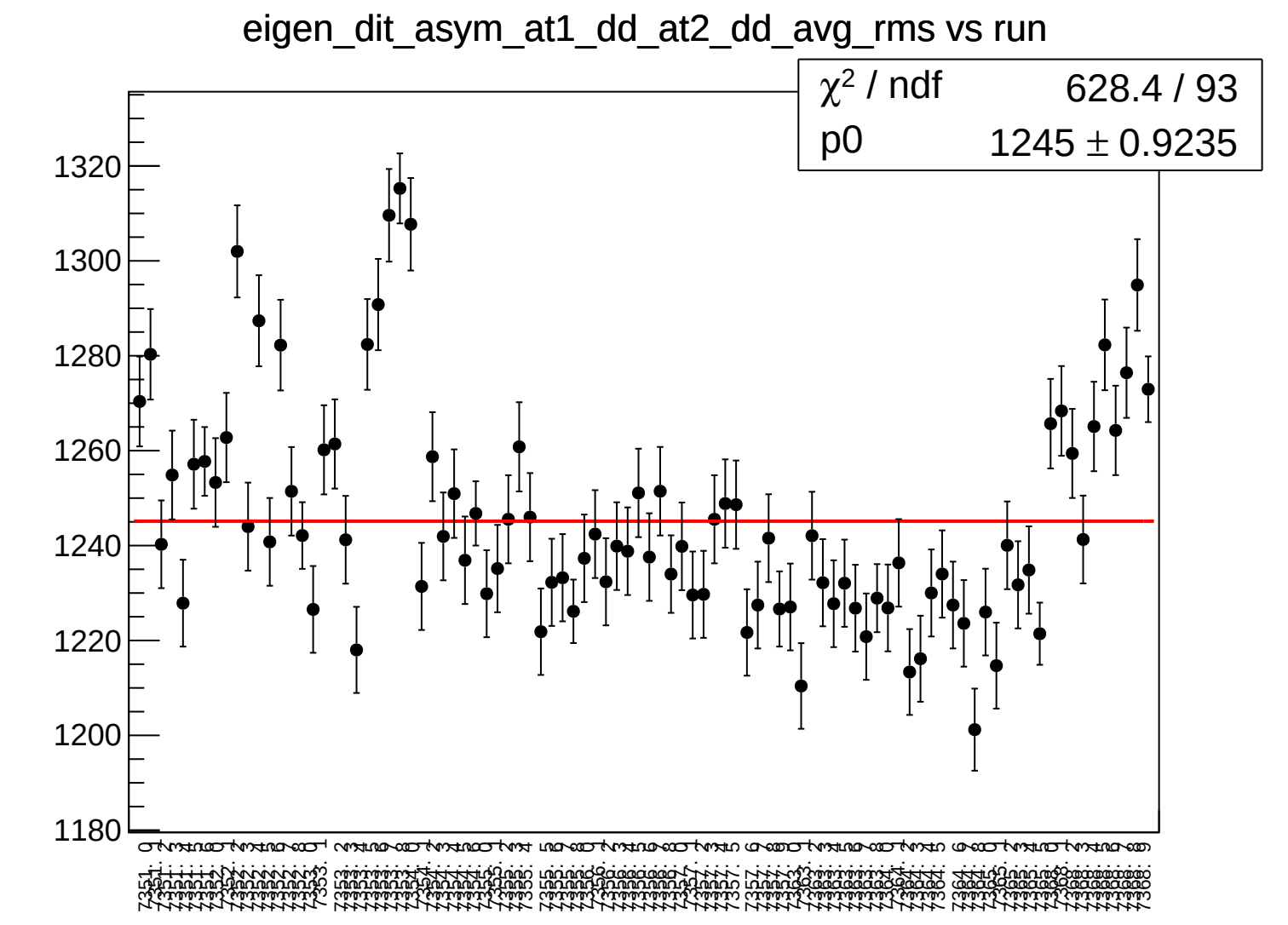

pull1D
Entries 94
Mean 0.003671
Std Dev 1.034
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

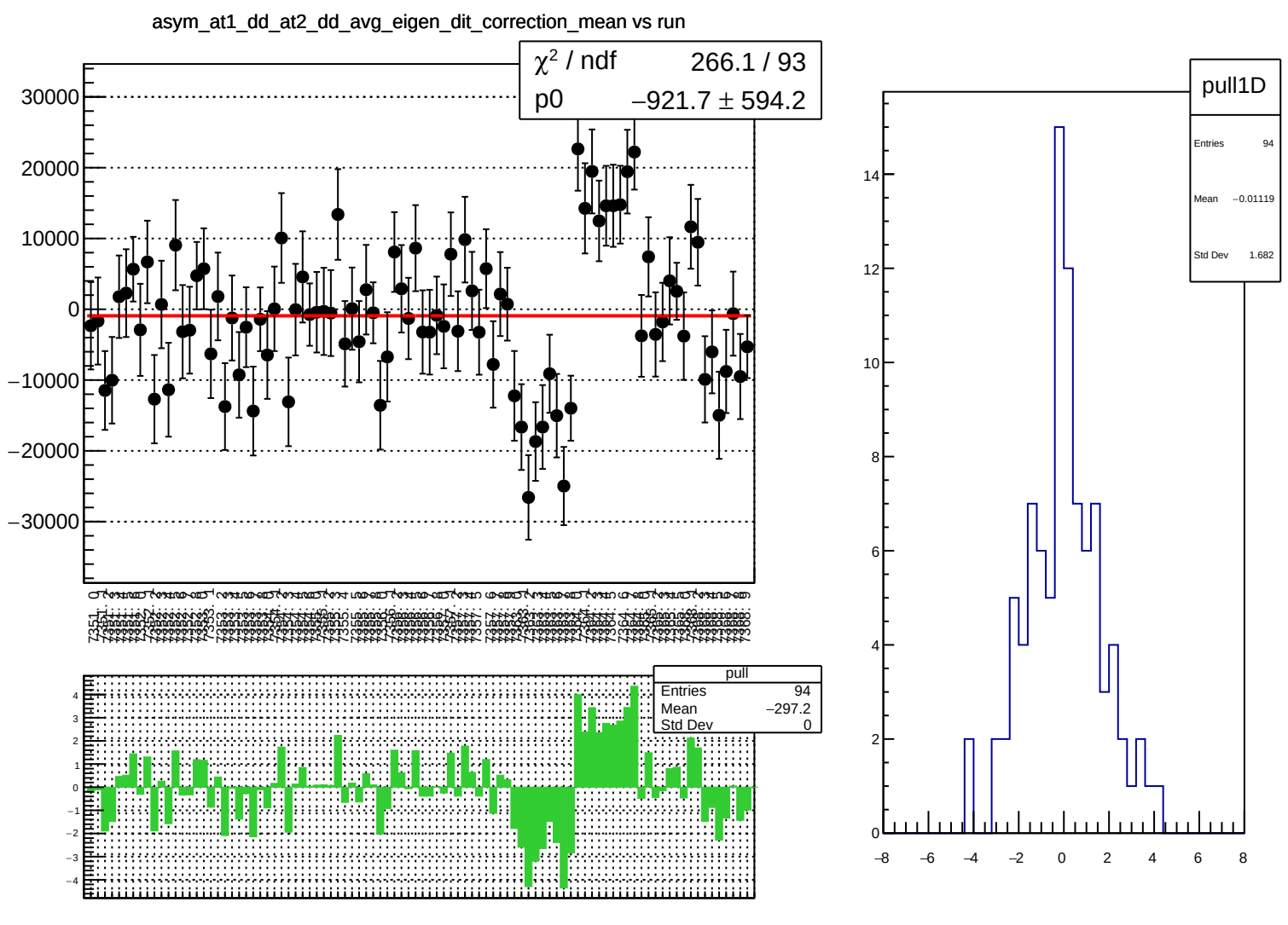

dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 628.4 / 93
p0 1245 ± 0.9235
1320
1300
1280
1260
1240
1220
1200
1180

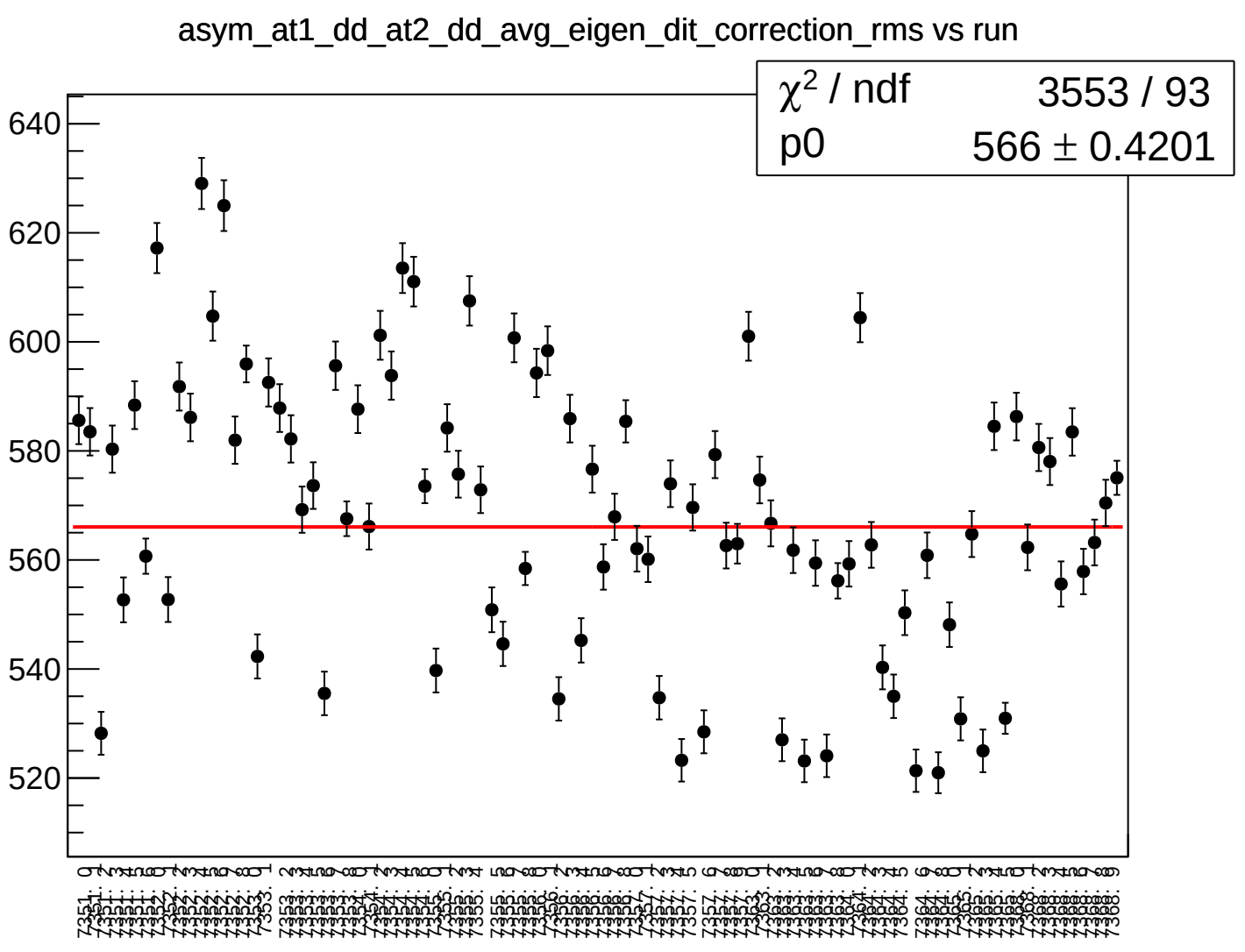

asym_at1_dd_at2_dd_avg_dit_correction_mean vs run
χ² / ndf 266.1 / 93
p0 −921.7 ± 594.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −297.2
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 94
Mean −0.01119
Std Dev 1.682
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

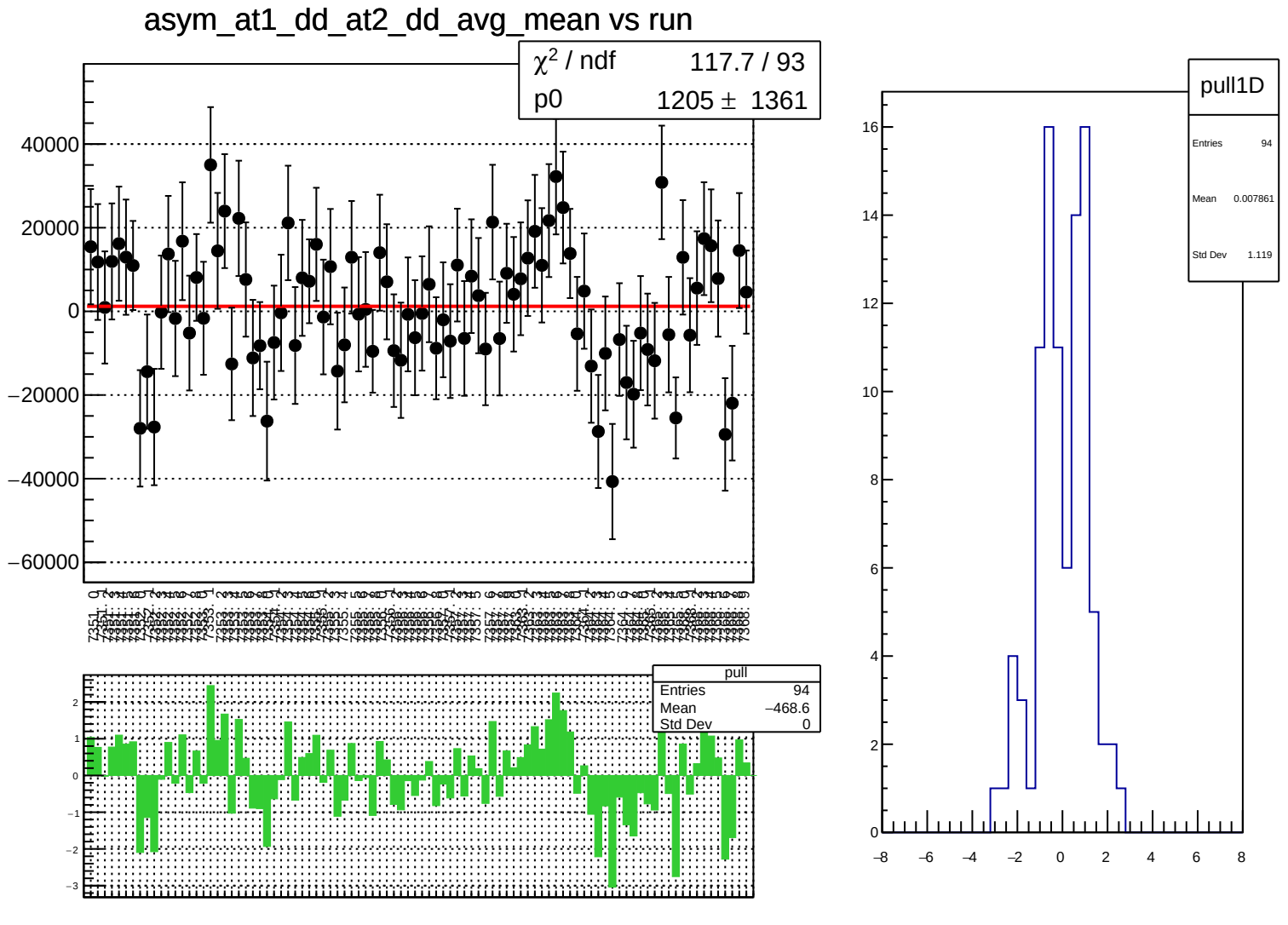

asym_at1_dd_at2_dd_avg_dit_correction_rms vs run
χ² / ndf 3553 / 93
p0 566.1 ± 0.4201
640
620
600
580
560
540
520

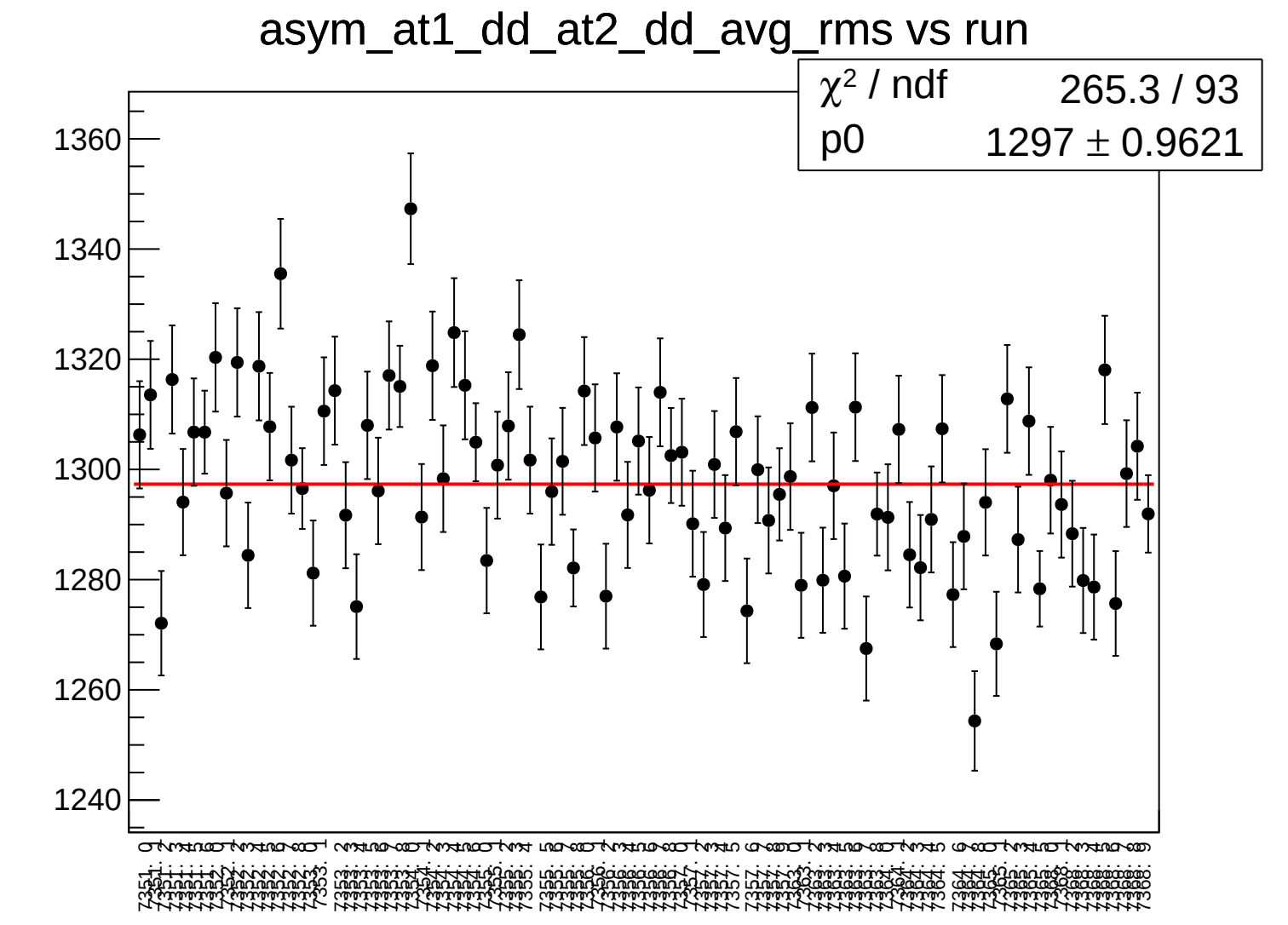

eigen_dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 100.5 / 93
p0 269.3 ± 1306
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −645
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.003671
Std Dev 1.034
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

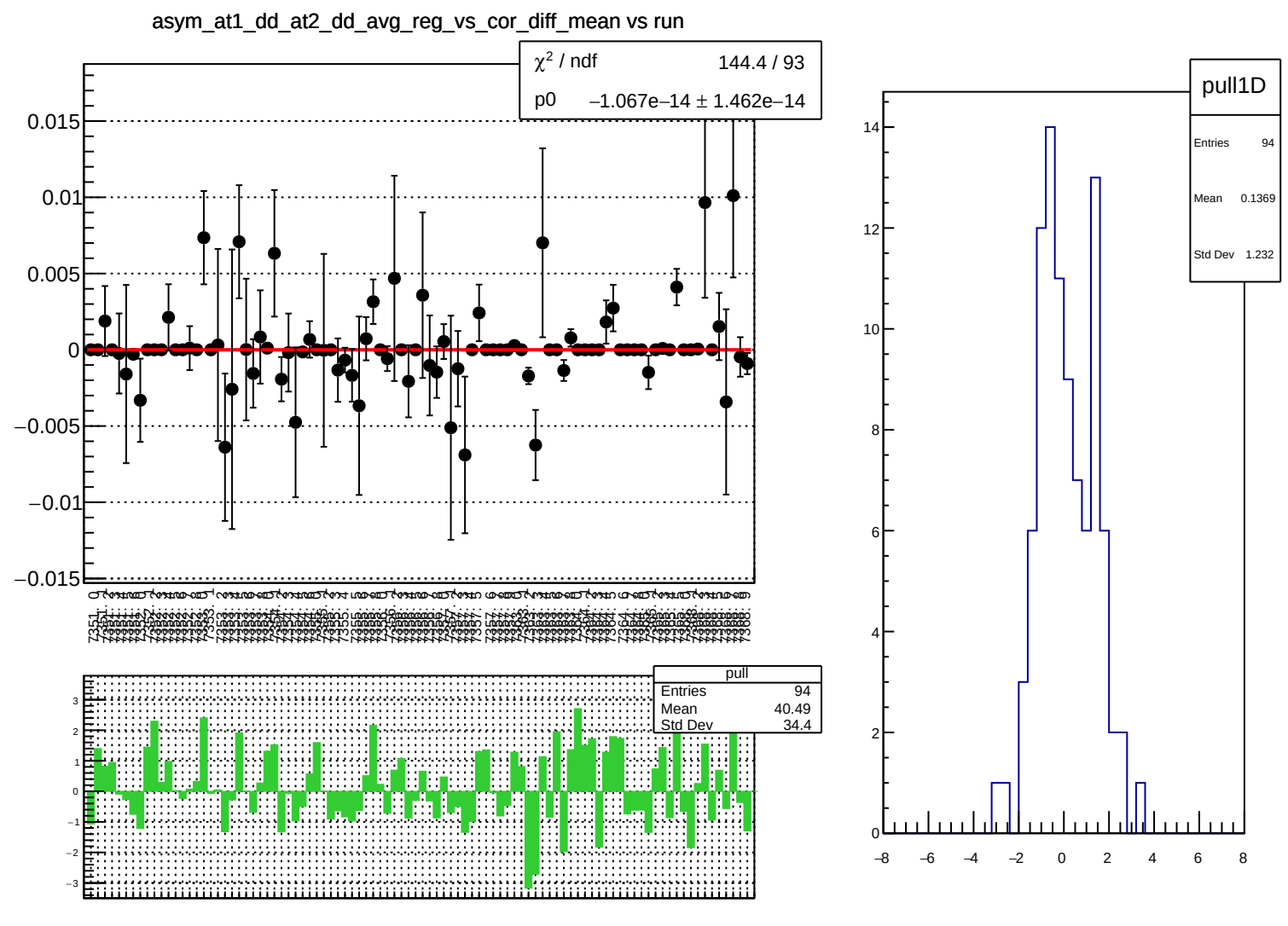

eigen_dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 628.4 / 93
p0 1245 ± 0.9235
1320
1300
1280
1260
1240
1220
1200
1180

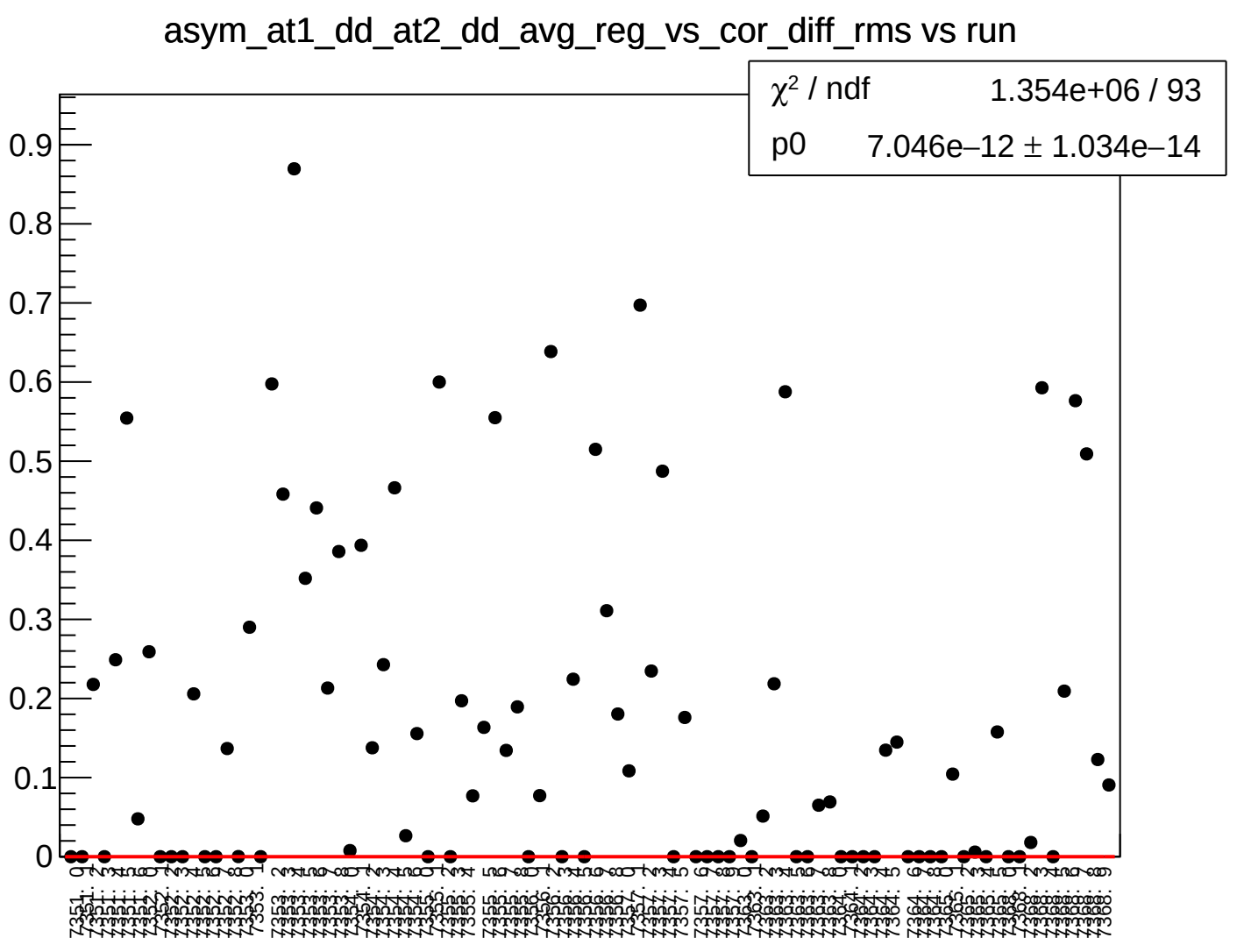

asym_at1_dd_at2_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 266.1 / 93
p0 −921.7 ± 594.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −297.2
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 94
Mean −0.01119
Std Dev 1.682
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

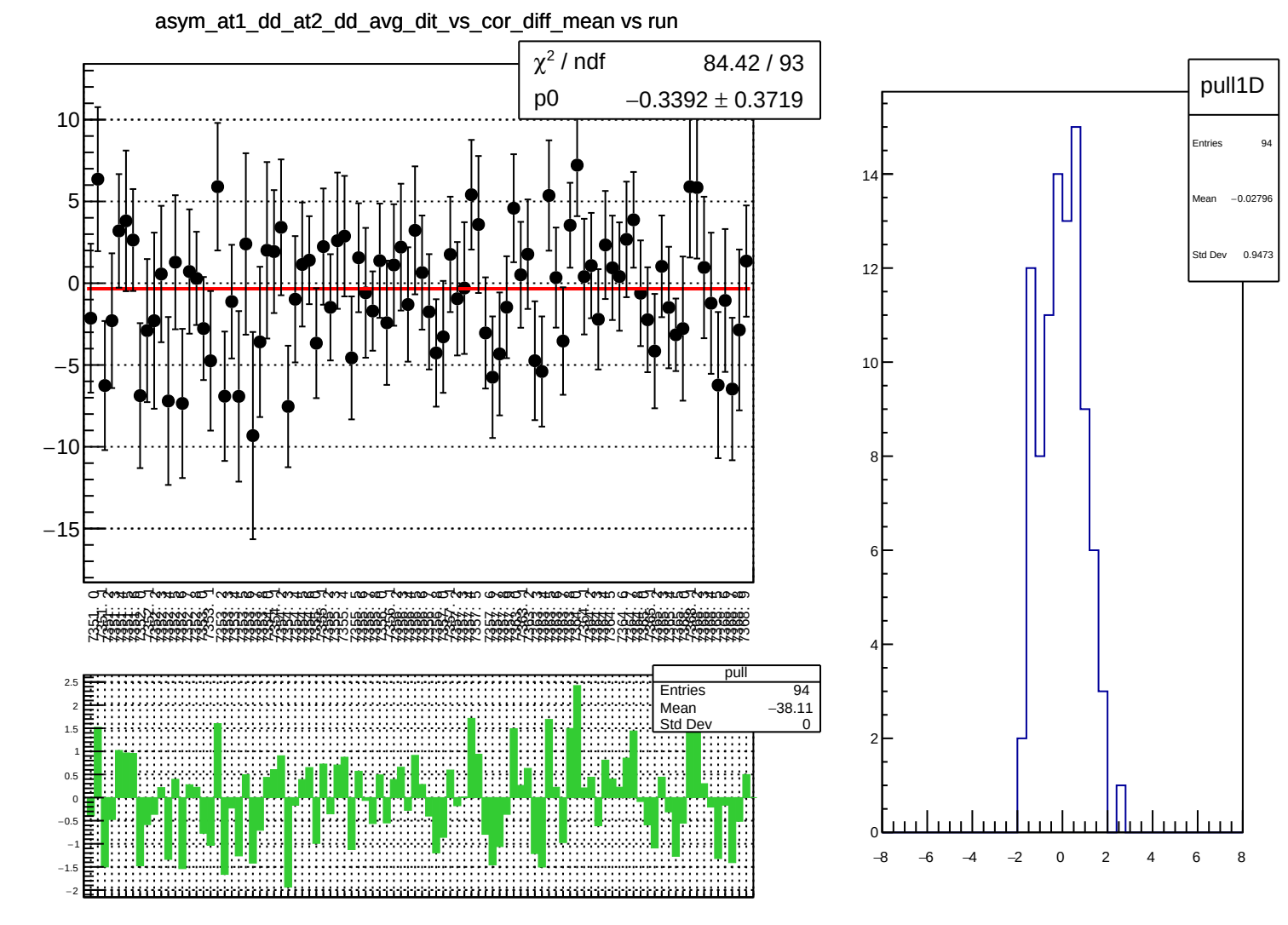

asym_at1_dd_at2_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 3553 / 93
p0 566 ± 0.4201
640
620
600
580
560
540
520

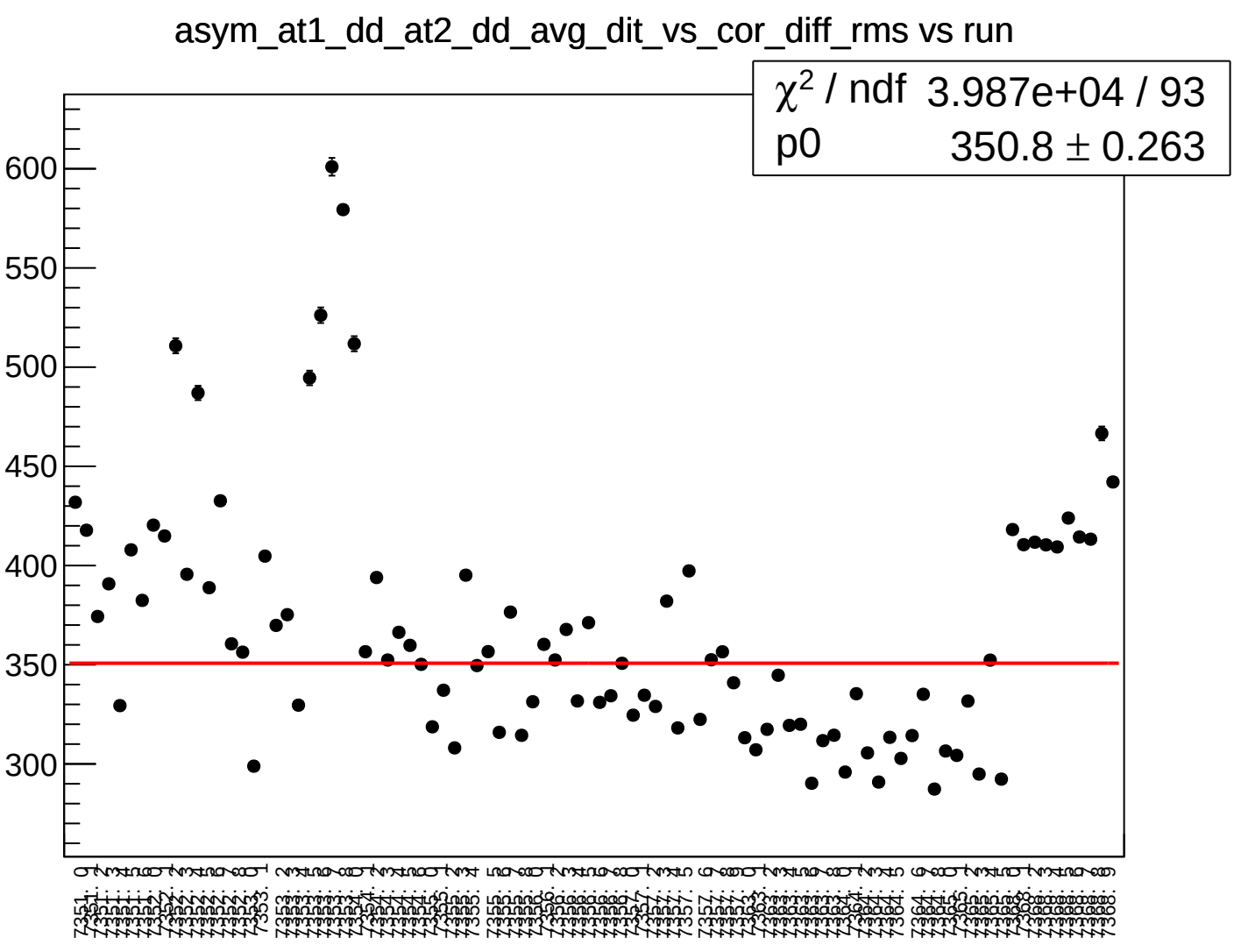

asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 117.7 / 93
p0 1205 ± 1361
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −468.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.007861
Std Dev 1.119
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

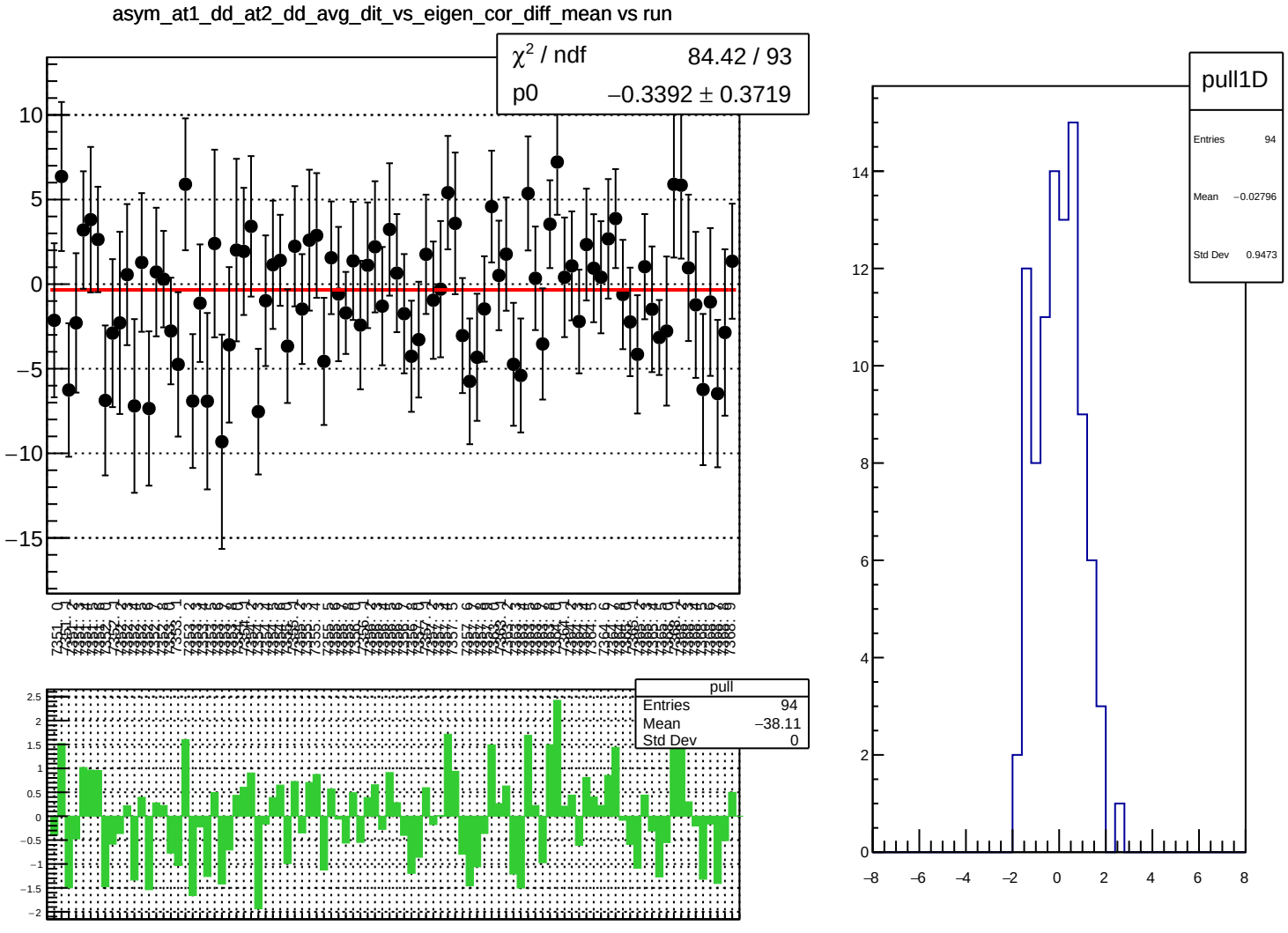

asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 265.3 / 93
p0 1297 ± 0.9621
1360
1340
1320
1300
1280
1260
1240

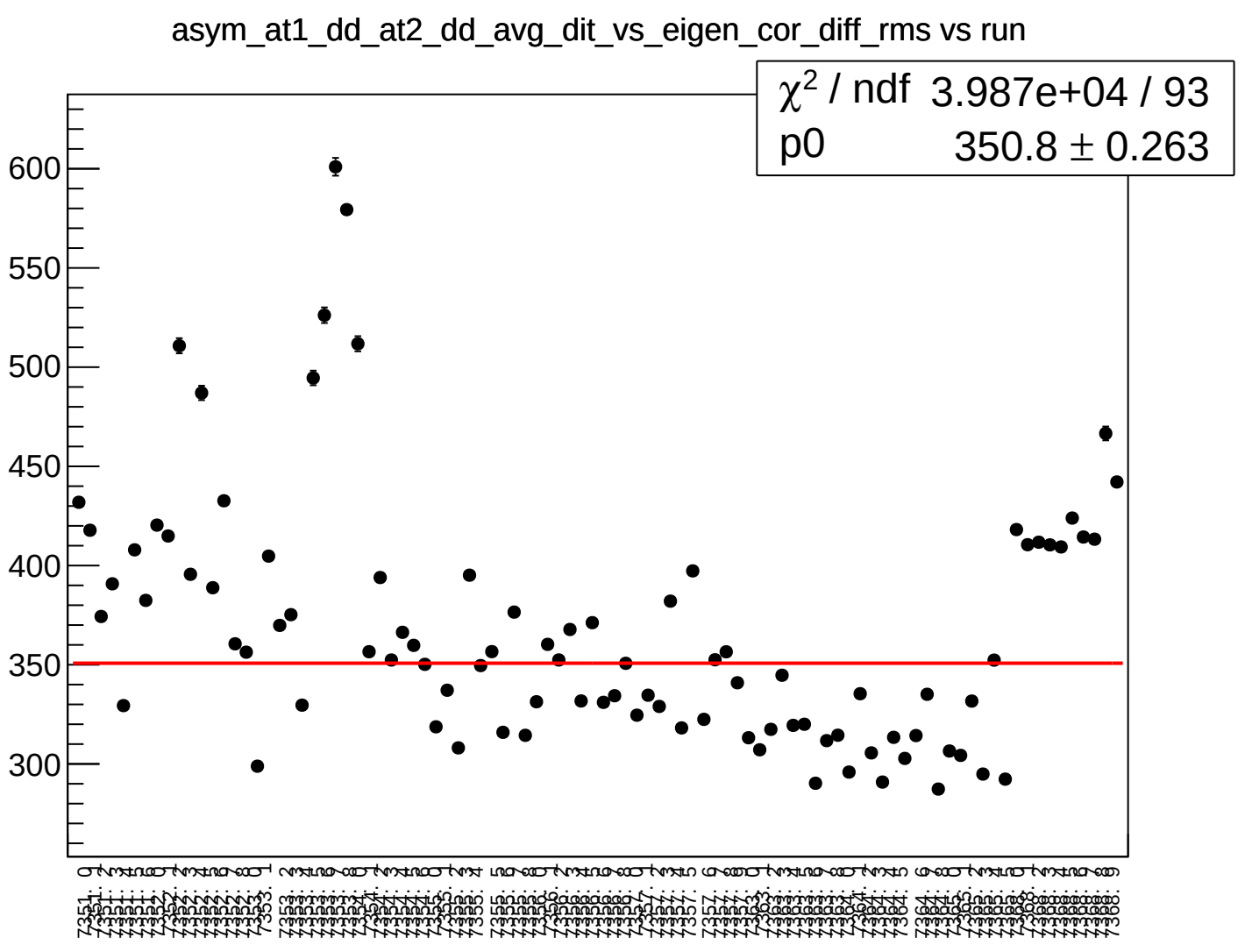

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 144.4 / 93
p0 −1.067e−14 ± 1.462e−14
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 94
Mean 40.49
Std Dev 34.4
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.1369
Std Dev 1.232
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

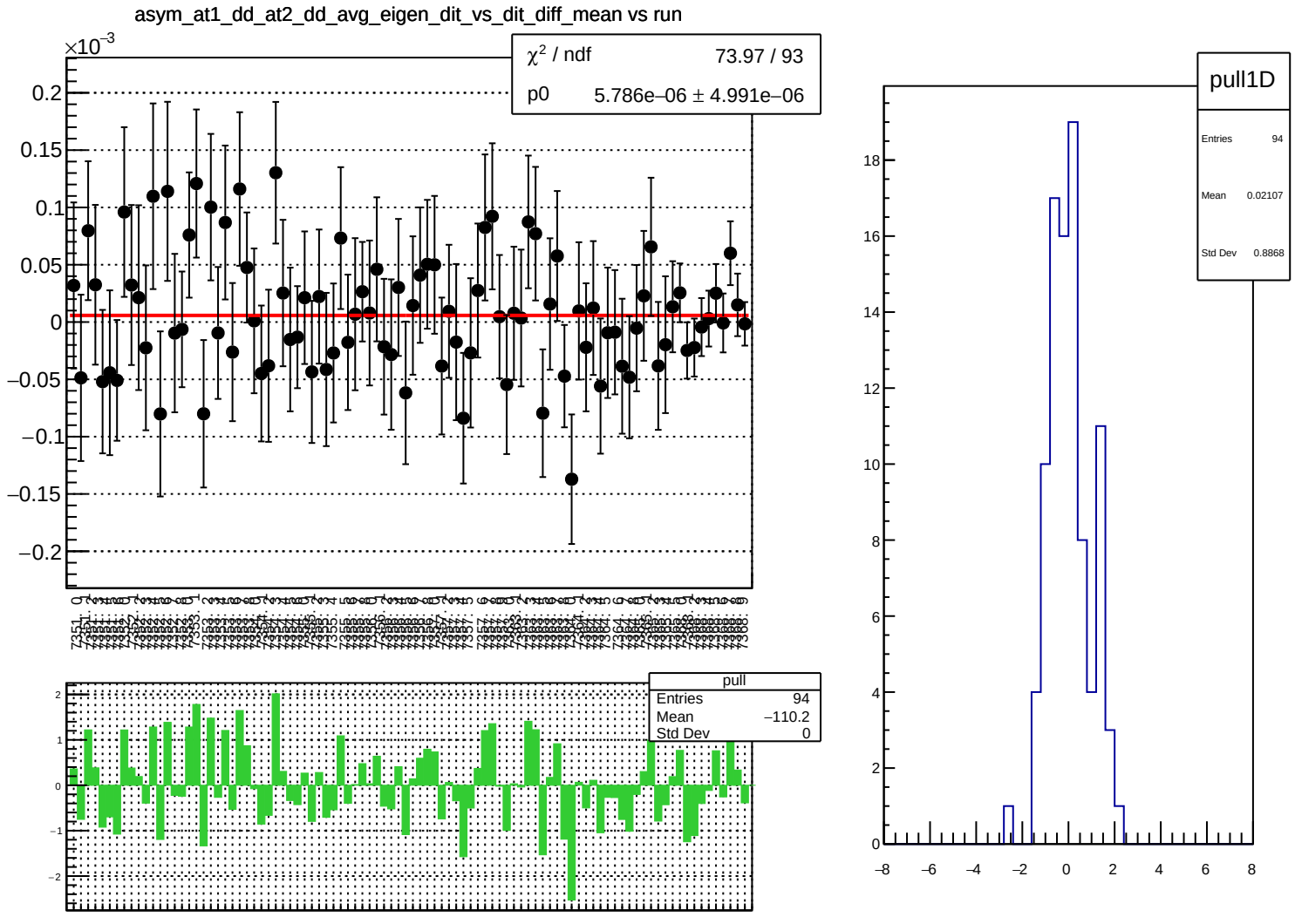

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.354e+06 / 93
p0 7.046e−12 ± 1.034e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

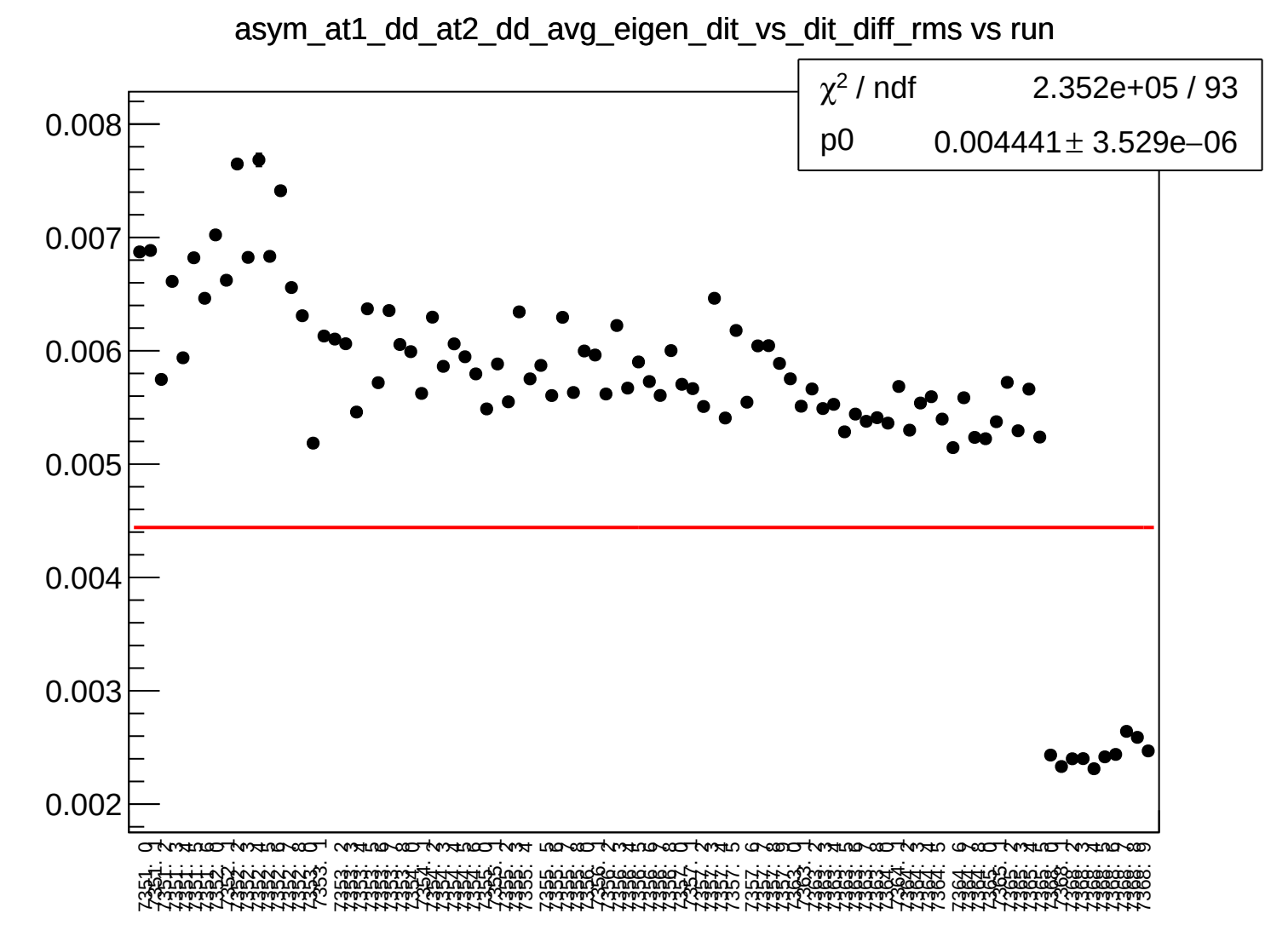

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 84.42 / 93
p0 −0.3392 ± 0.3719
pull
Entries 94
Mean −38.11
Std Dev 0
pull1D
Entries 94
Mean −0.02796
Std Dev 0.9473

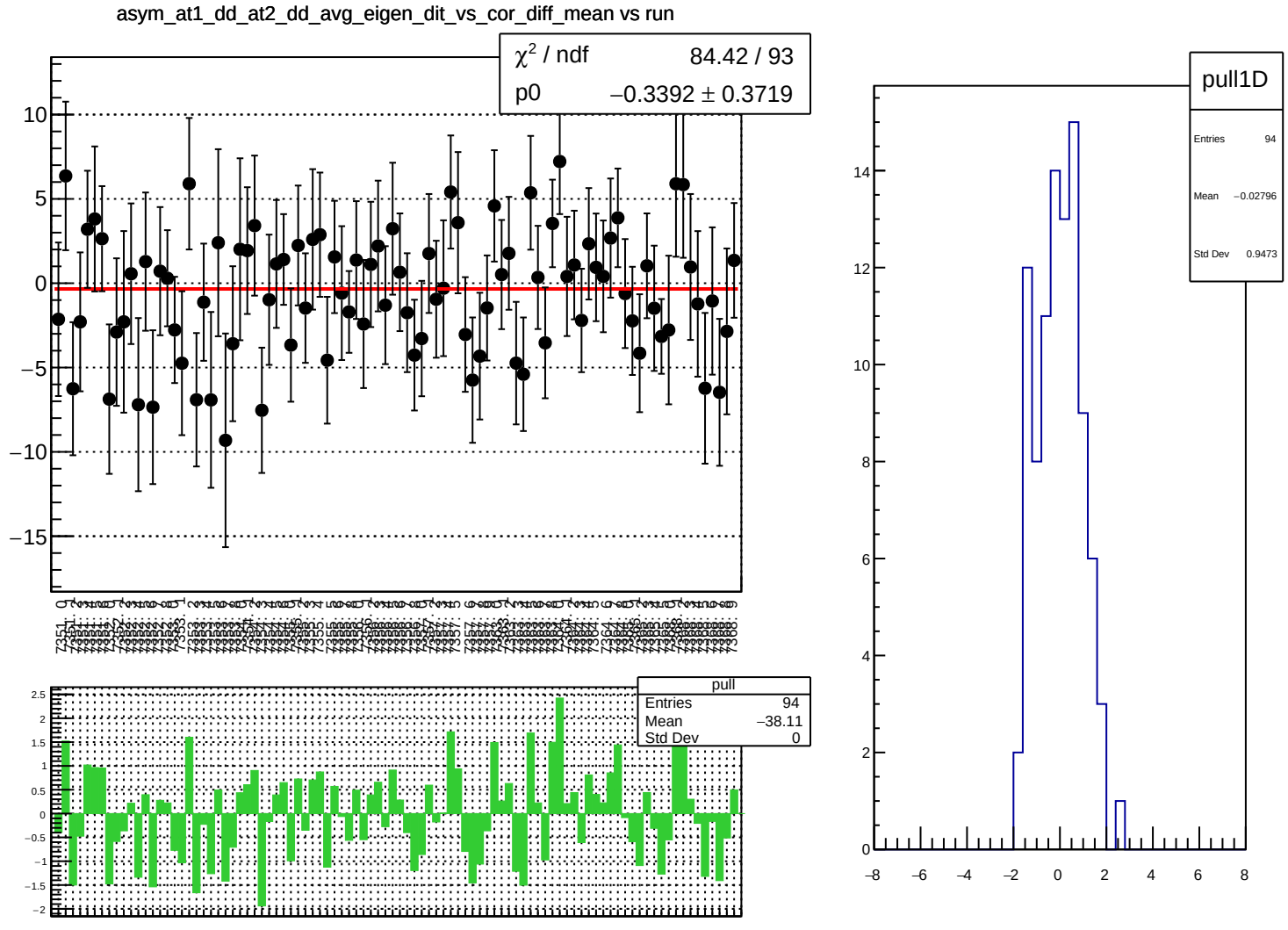

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.987e+04 / 93
p0 350.8 ± 0.263
600
550
500
450
400
350
300

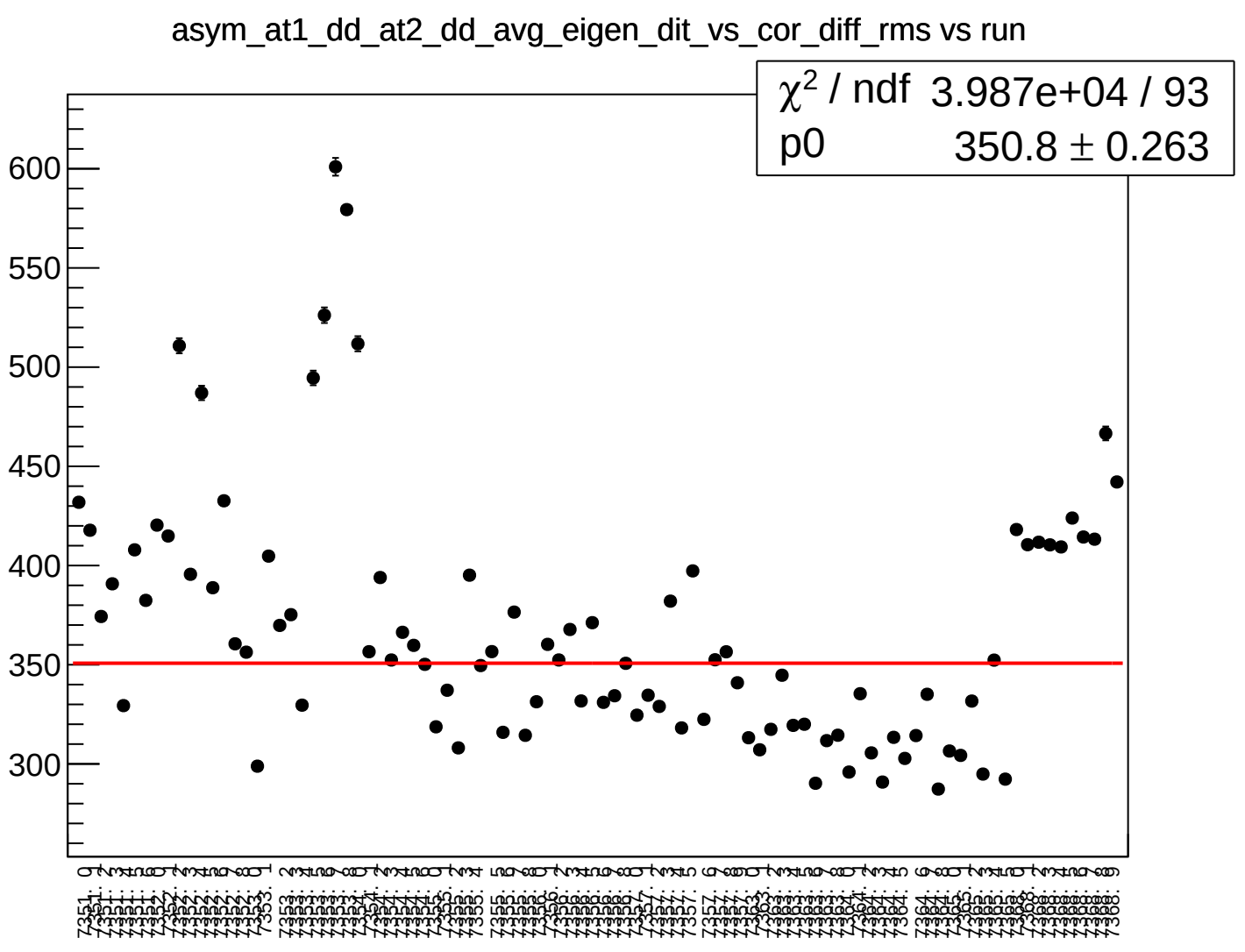

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.42 / 93
p0 −0.3392 ± 0.3719
pull
Entries 94
Mean −38.11
Std Dev 0
pull1D
Entries 94
Mean −0.02796
Std Dev 0.9473

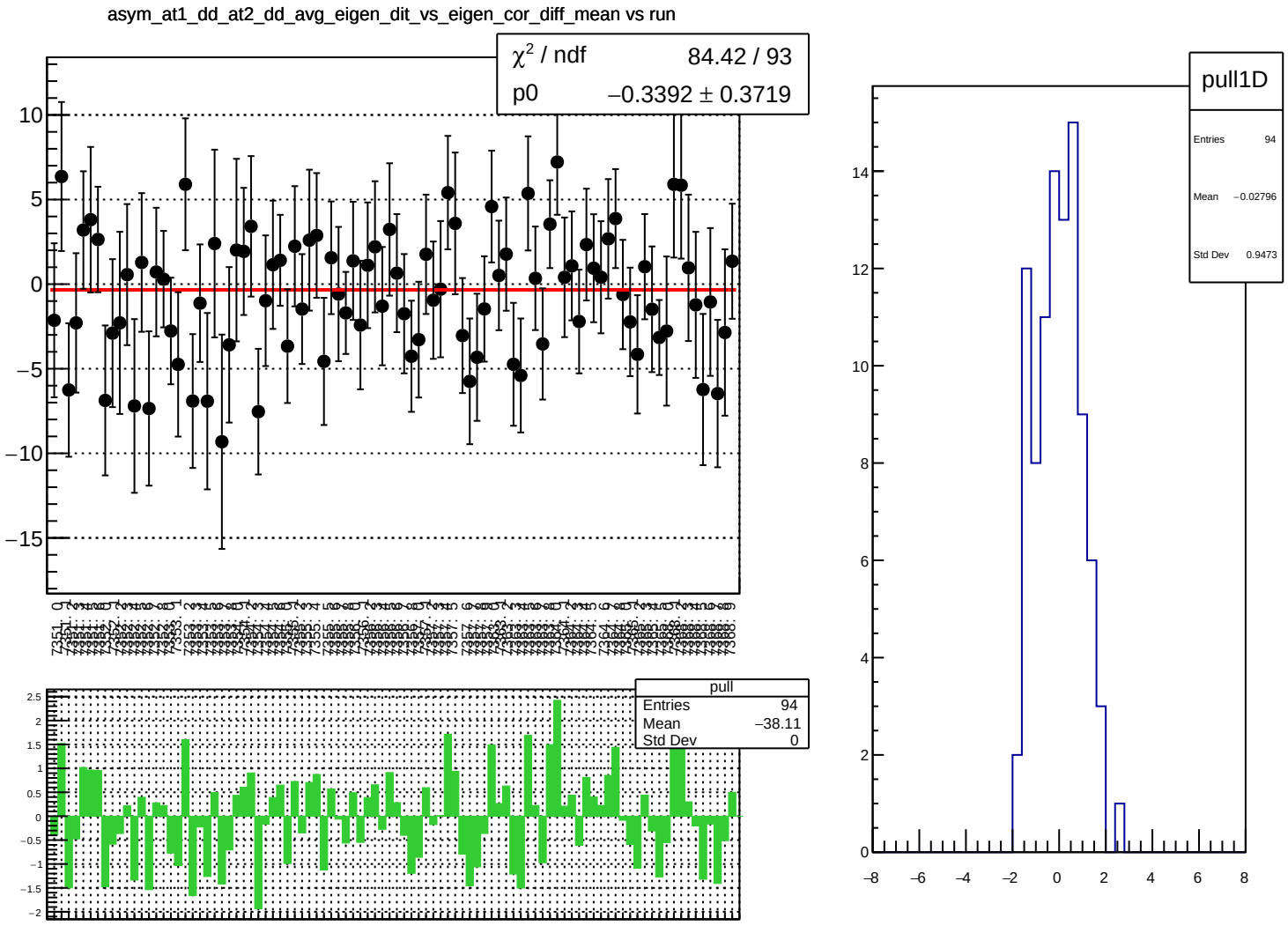

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.987e+04 / 93
p0 350.8 ± 0.263
600
550
500
450
400
350
300

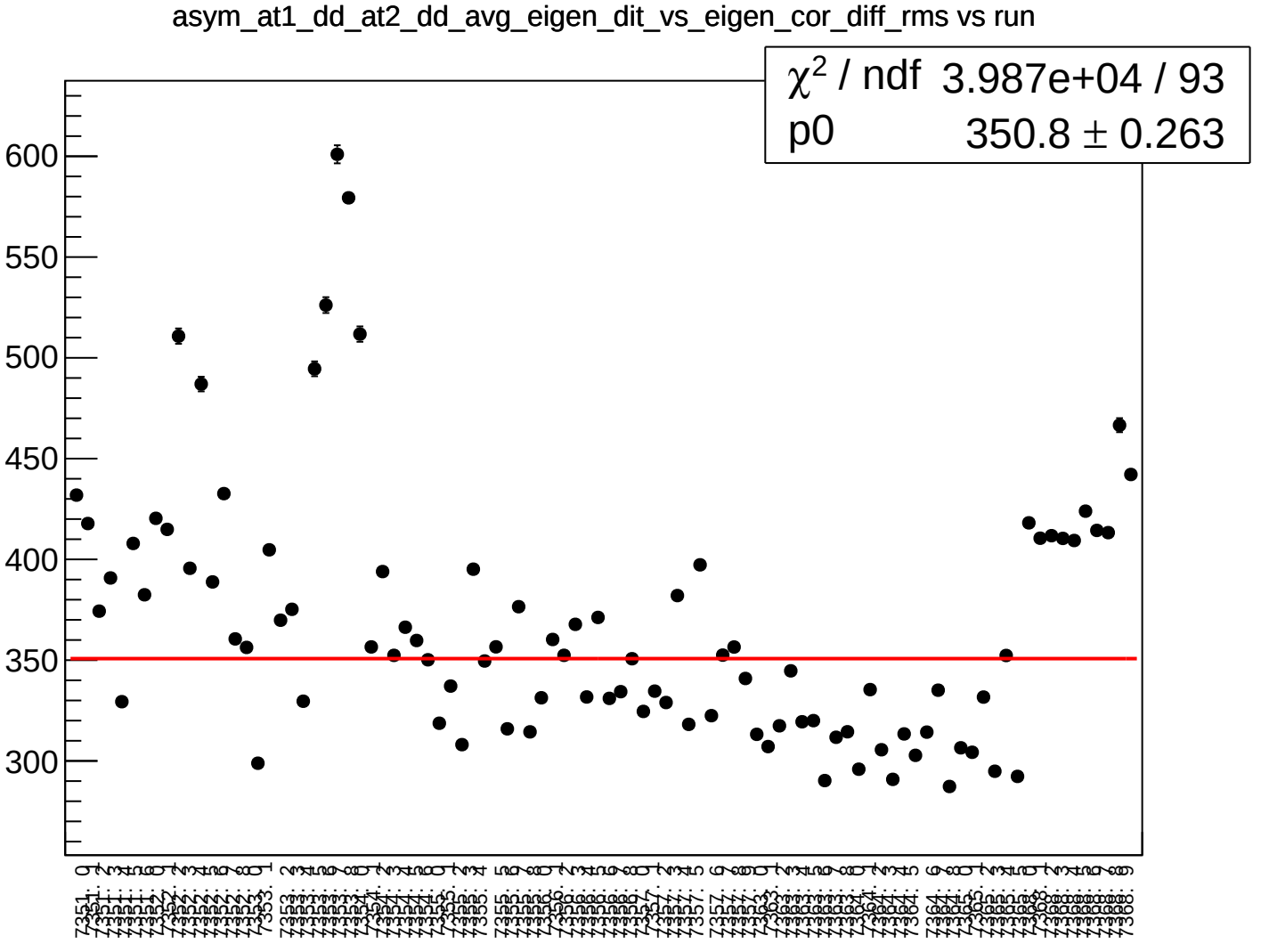

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 73.97 / 93
p0 5.786e−06 ± 4.991e−06
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
pull
Entries 94
Mean −110.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.02107
Std Dev 0.8868
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

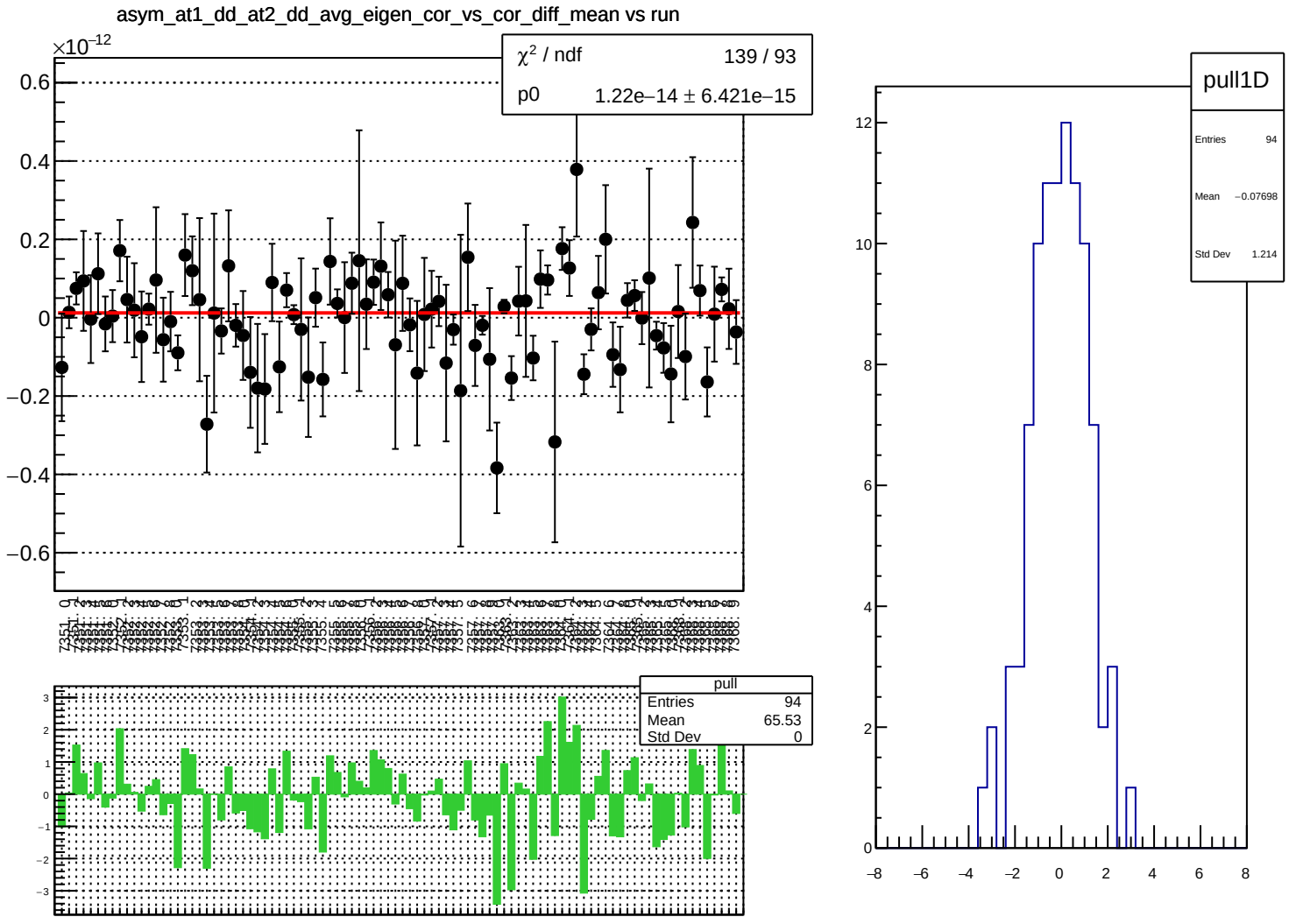

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.352e+05 / 93
p0 0.004441 ± 3.529e−06
0.008
0.007
0.006
0.005
0.004
0.003
0.002

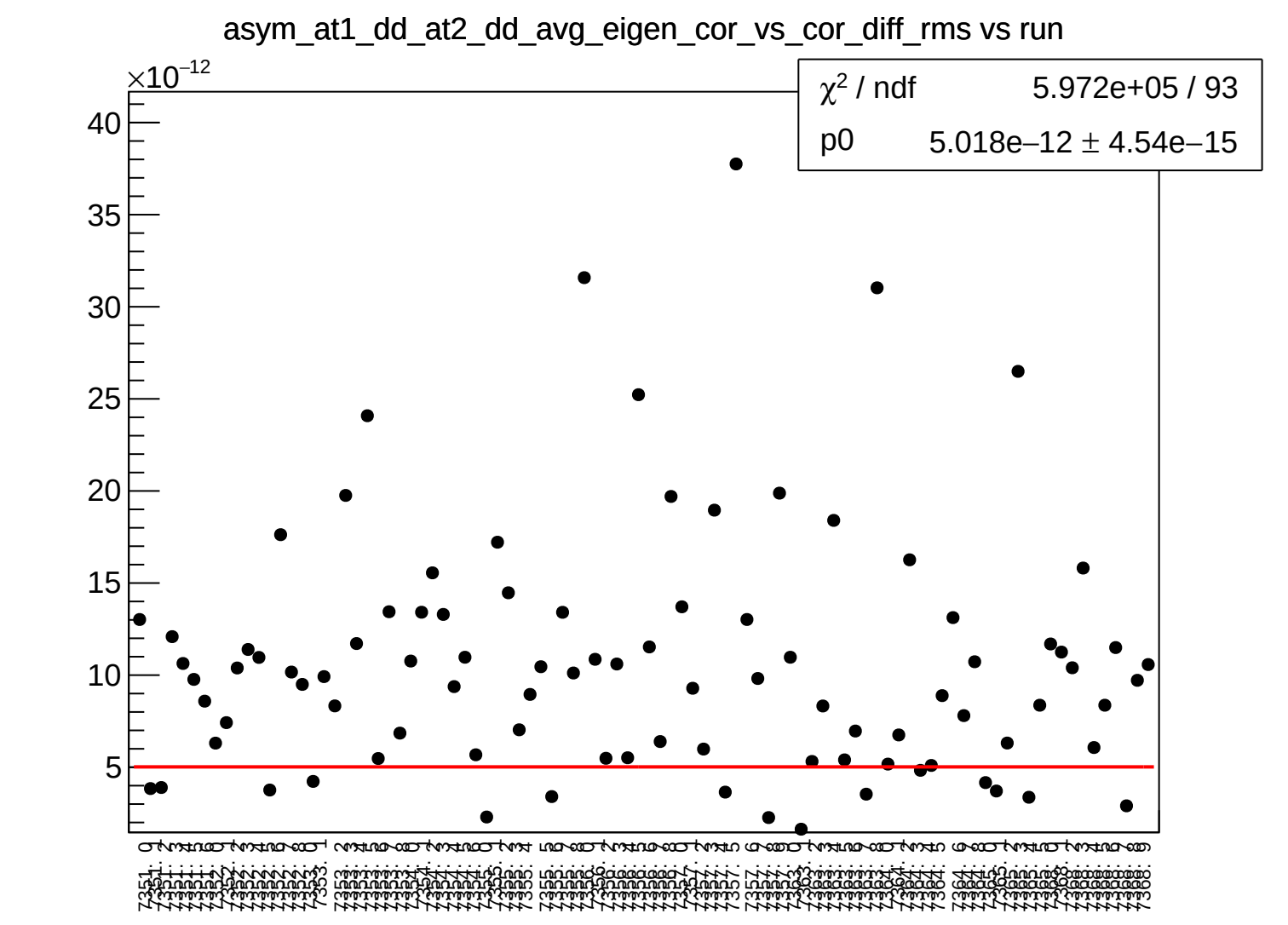

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.42 / 93
p0 −0.3392 ± 0.3719
pull
Entries 94
Mean −38.11
Std Dev 0
pull1D
Entries 94
Mean −0.02796
Std Dev 0.9473

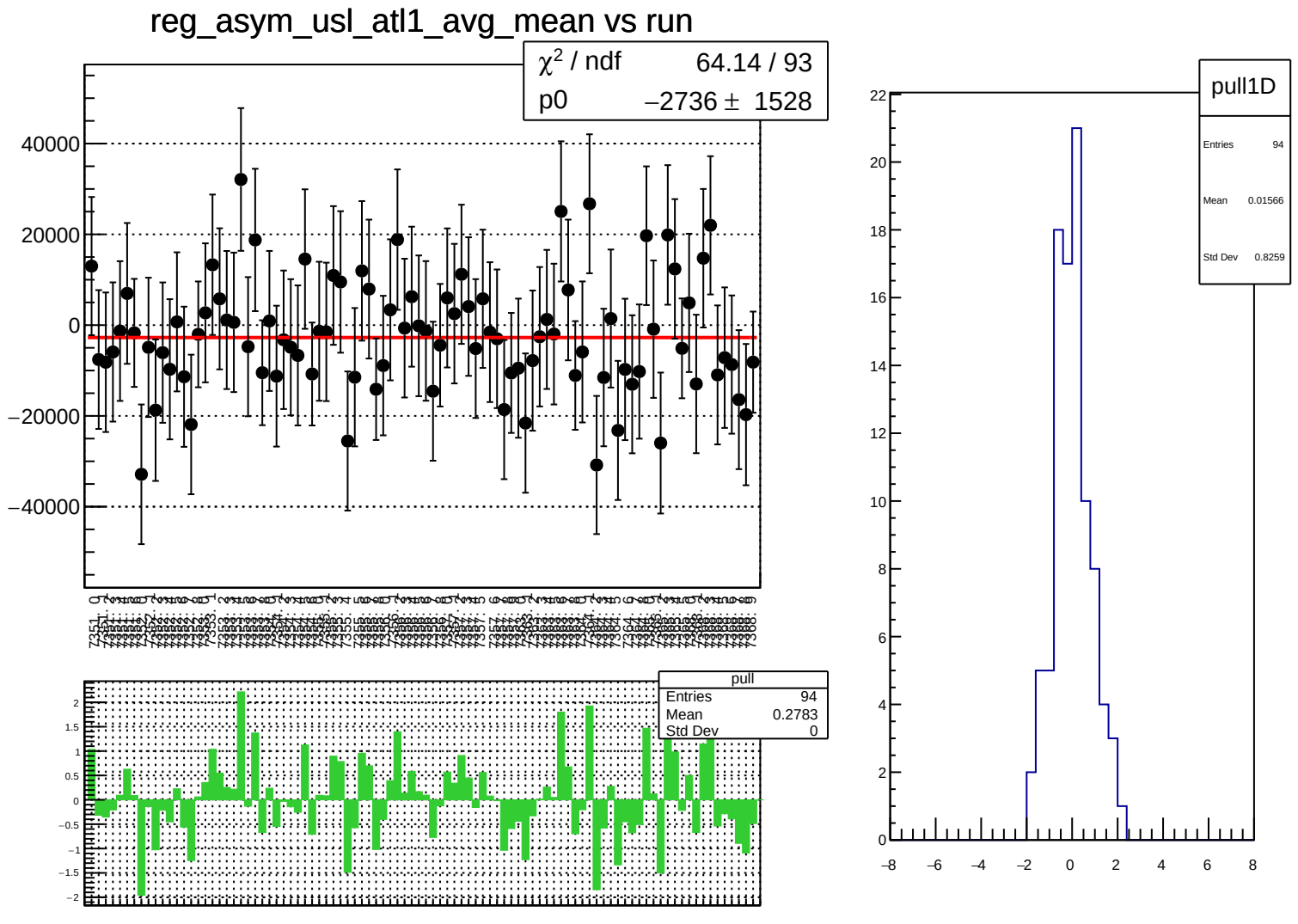

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.987e+04 / 93
p0 350.8 ± 0.263
600
550
500
450
400
350
300

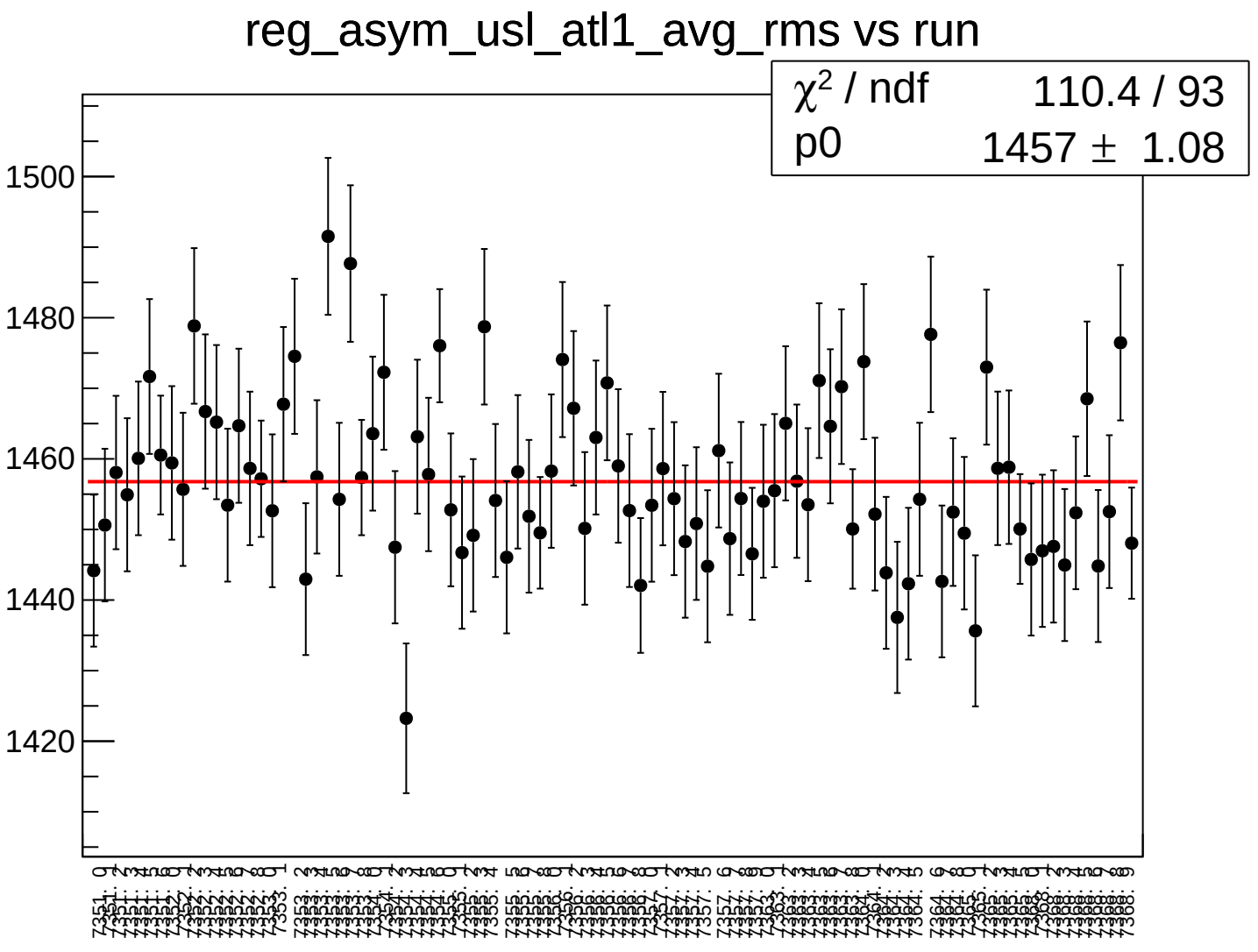

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.42 / 93
p0 −0.3392 ± 0.3719
pull
Entries 94
Mean −38.11
Std Dev 0
pull1D
Entries 94
Mean −0.02796
Std Dev 0.9473

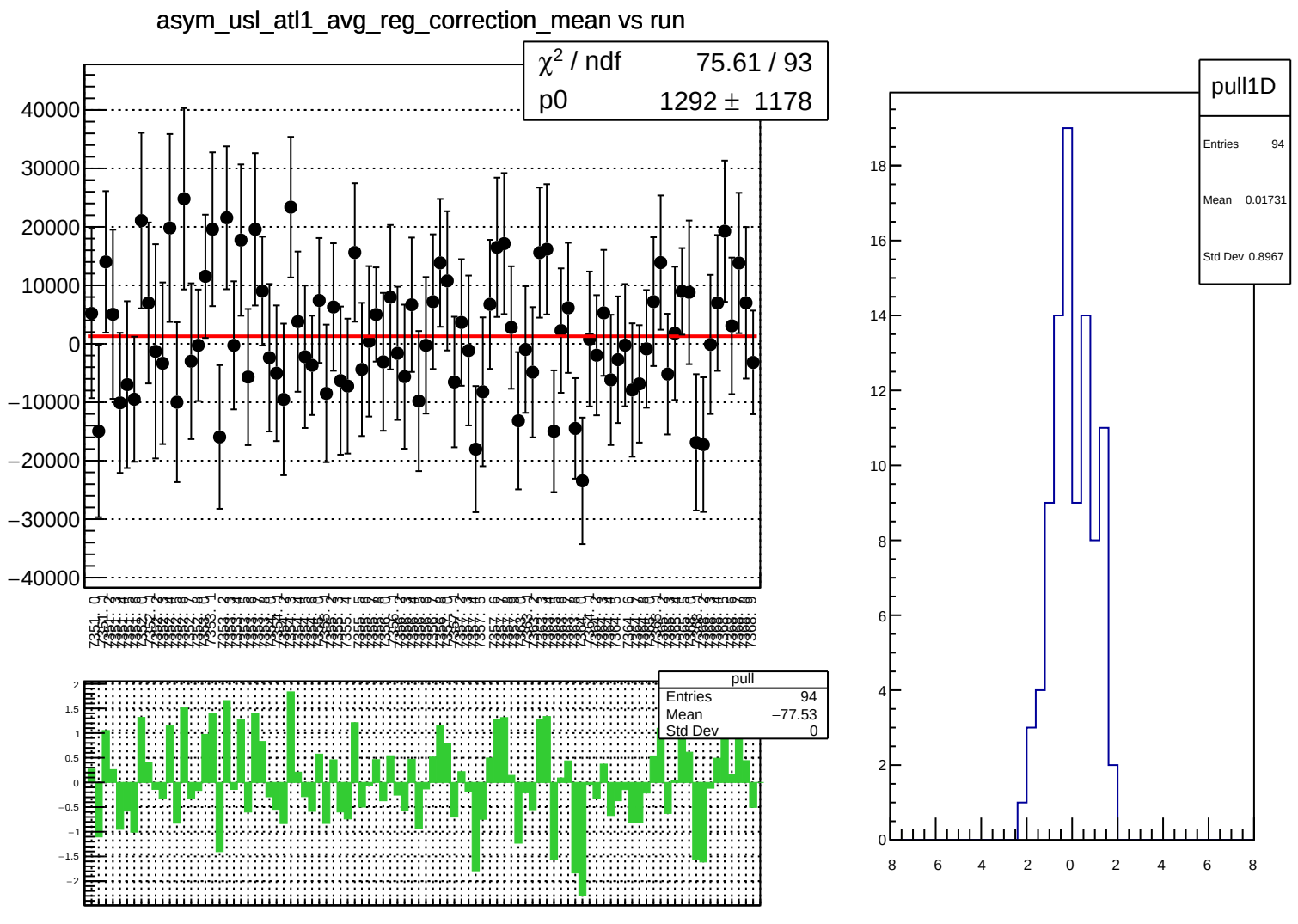

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.987e+04 / 93
p0 350.8 ± 0.263
600
550
500
450
400
350
300

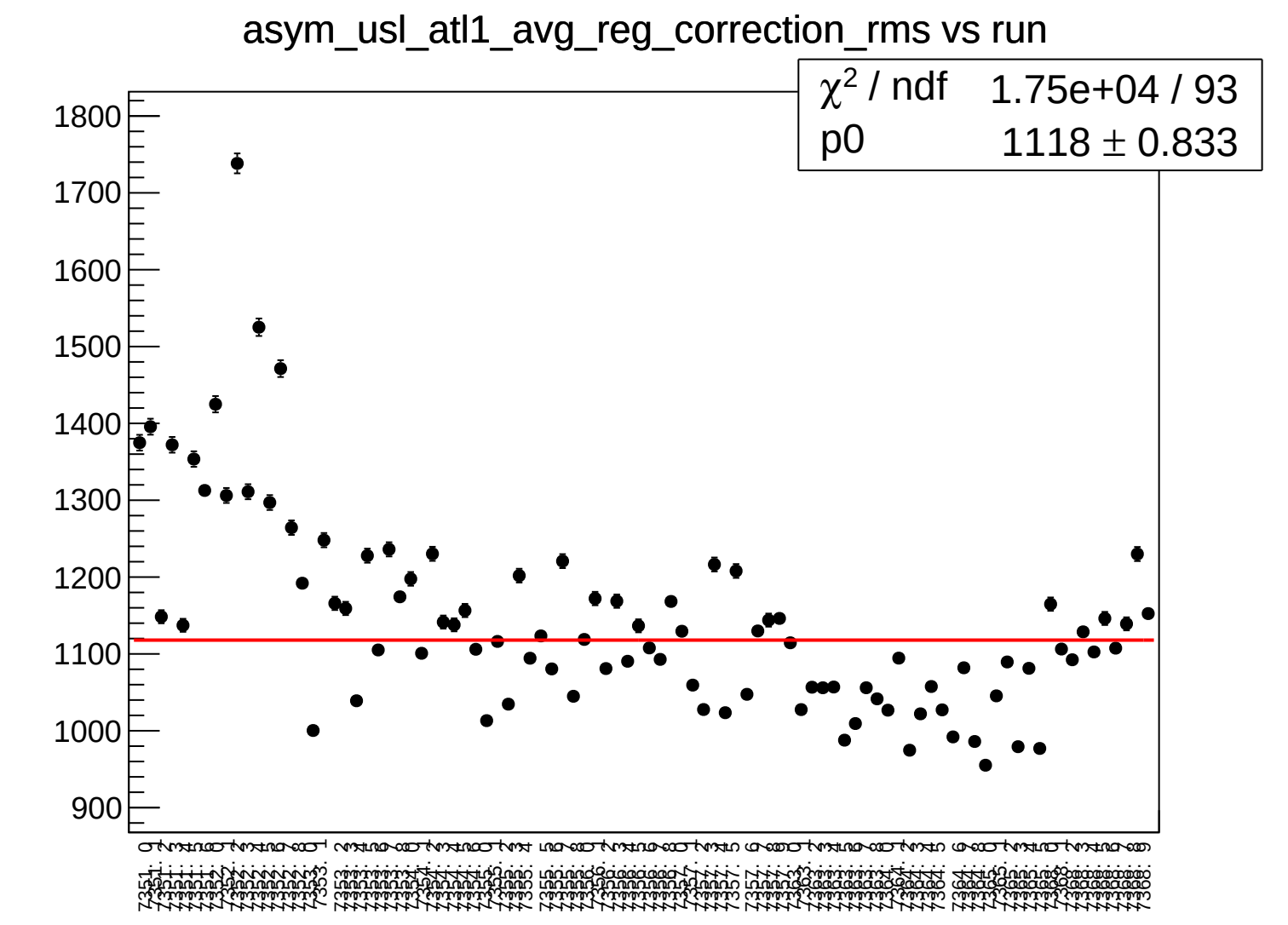

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 139 / 93
p0 1.22e−14 ± 6.421e−15
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 94
Mean 65.53
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.07698
Std Dev 1.214
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

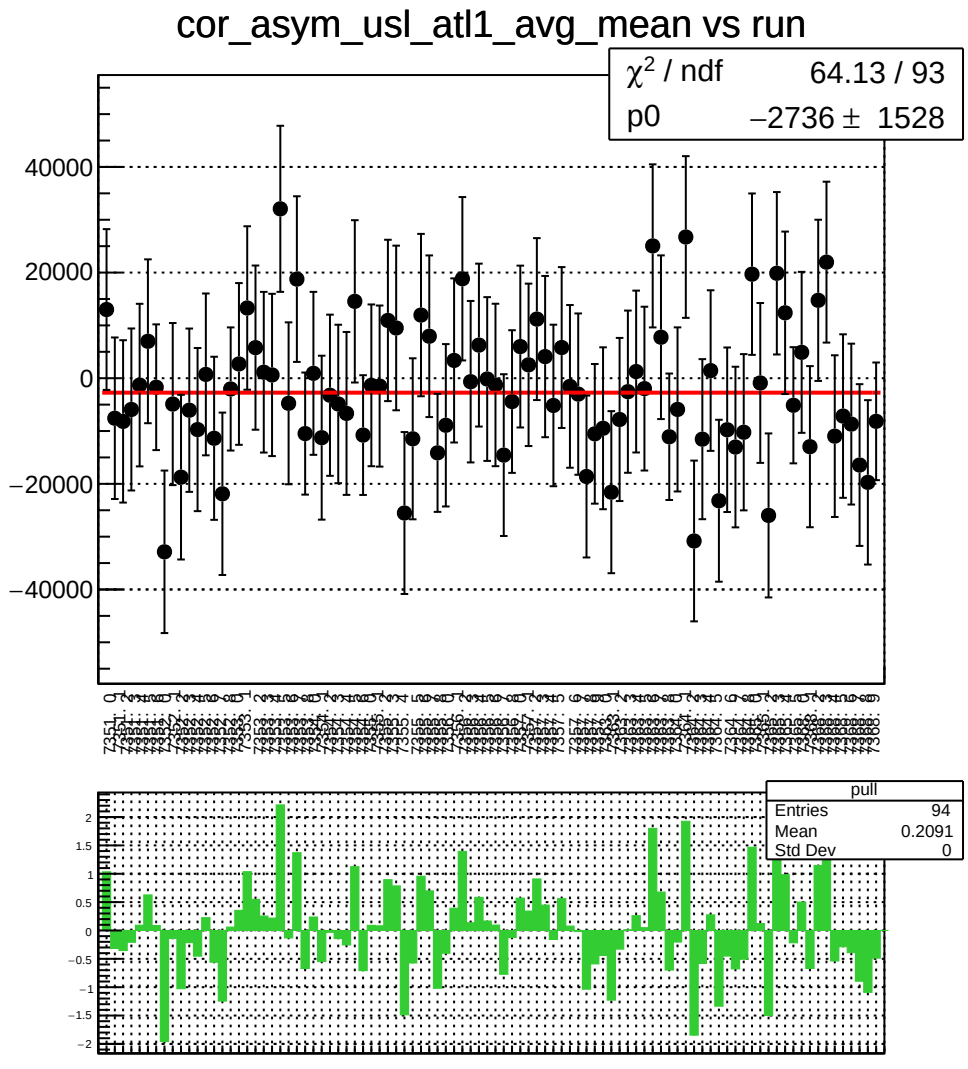

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.972e+05 / 93
p0 5.018e−12 ± 4.54e−15
40
35
30
25
20
15
10
5

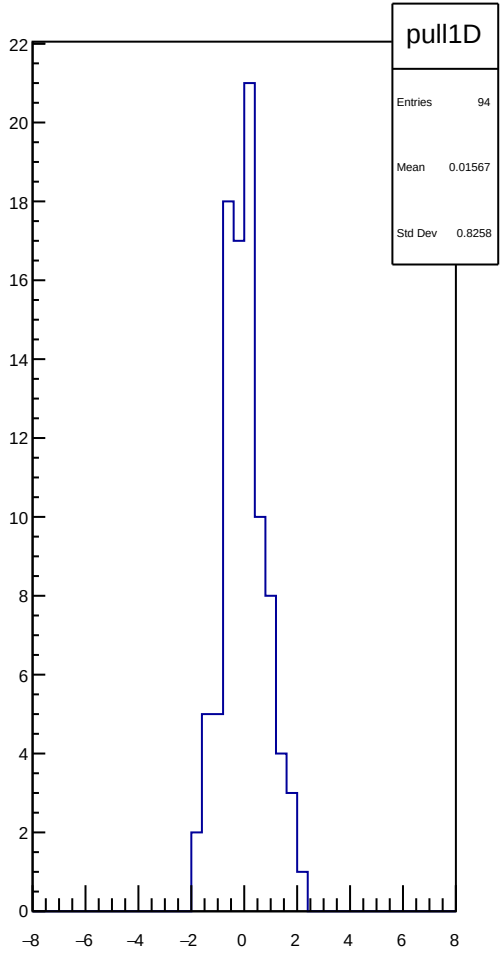

reg_asym_usl_atl1_avg_mean vs run
χ² / ndf 64.14 / 93
p0 −2736 ± 1528
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 0.2783
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean 0.01566
Std Dev 0.8259
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

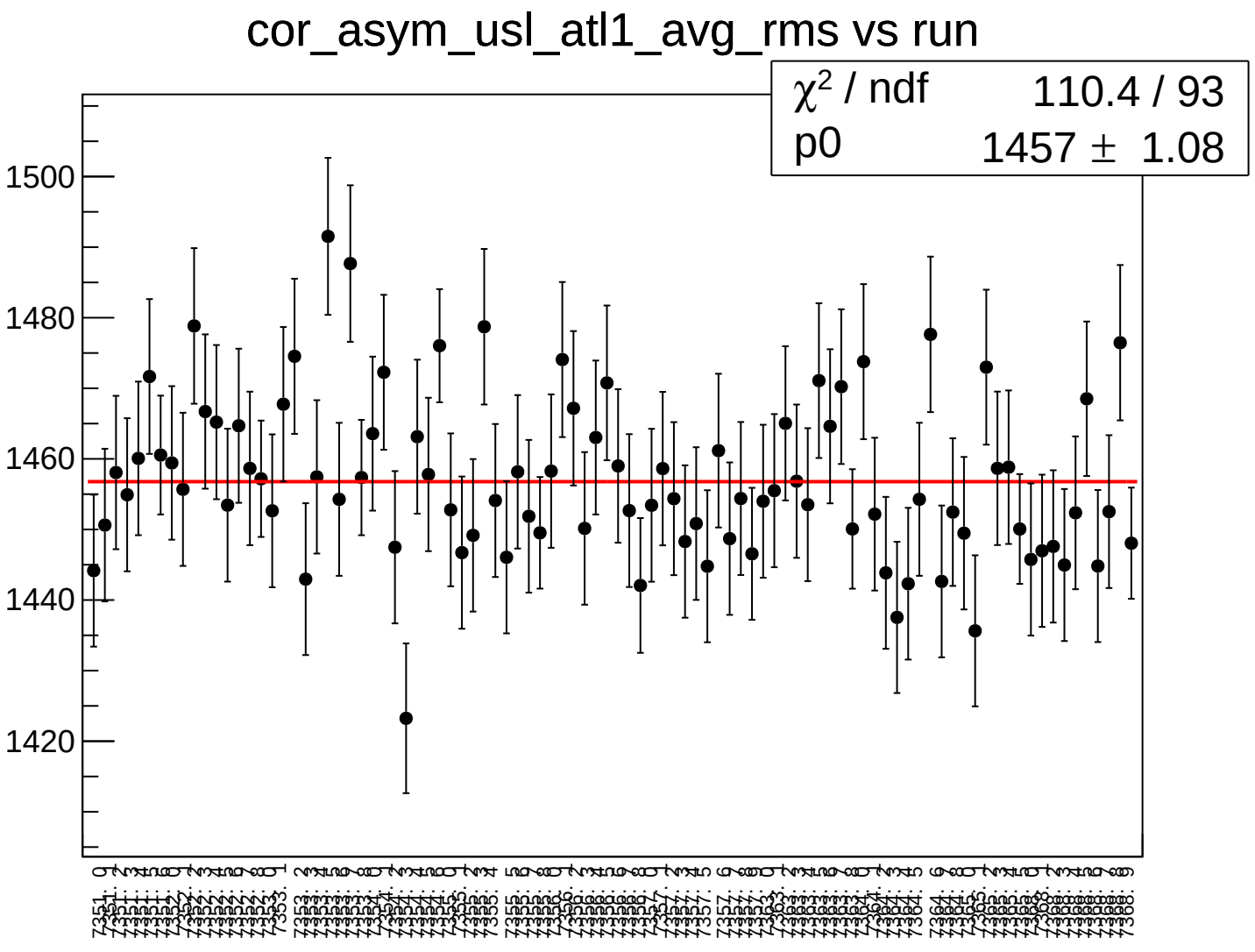

reg_asym_usl_atl1_avg_rms vs run
χ² / ndf 110.4 / 93
p0 1457 ± 1.08
1500
1480
1460
1440
1420

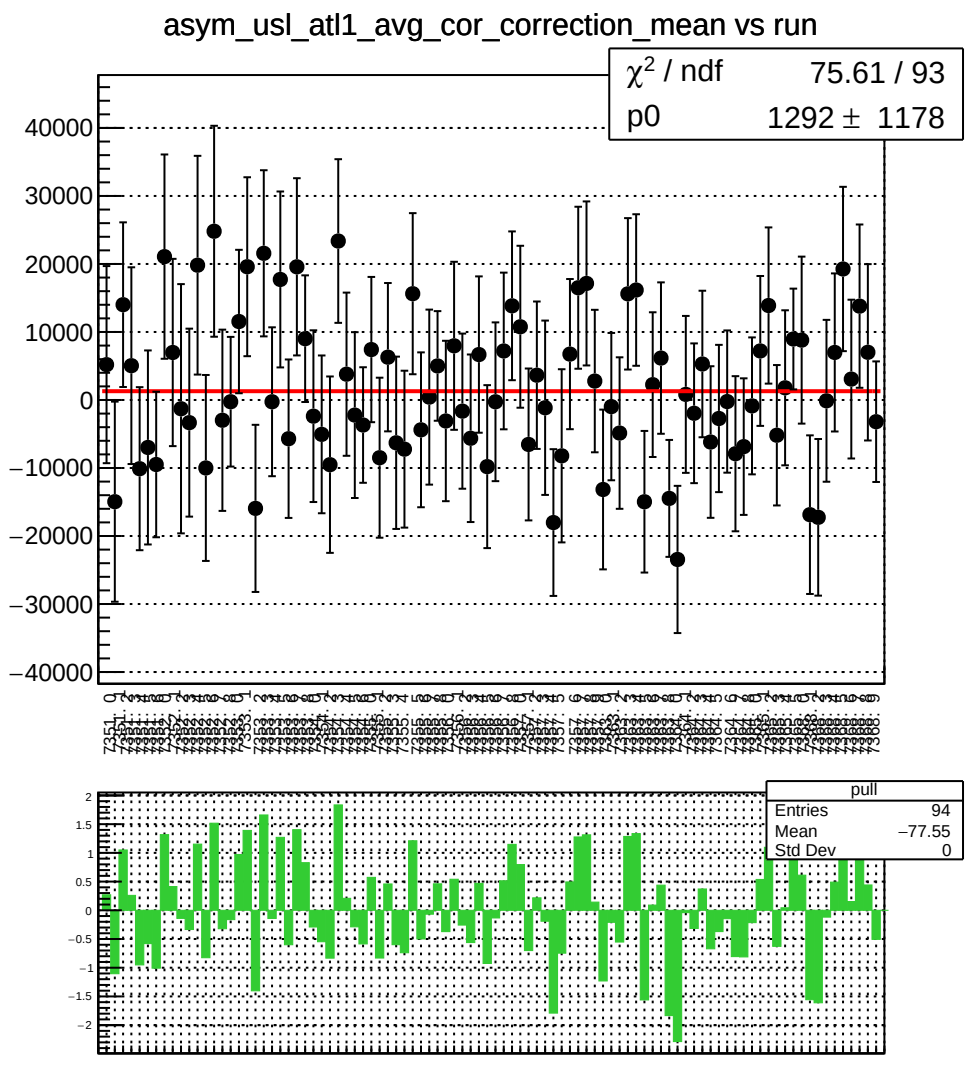

asym_usl_atl1_avg_reg_correction_mean vs run
χ² / ndf 75.61 / 93
p0 1292 ± 1178
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 94
Mean −77.53
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean 0.01731
Std Dev 0.8967
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

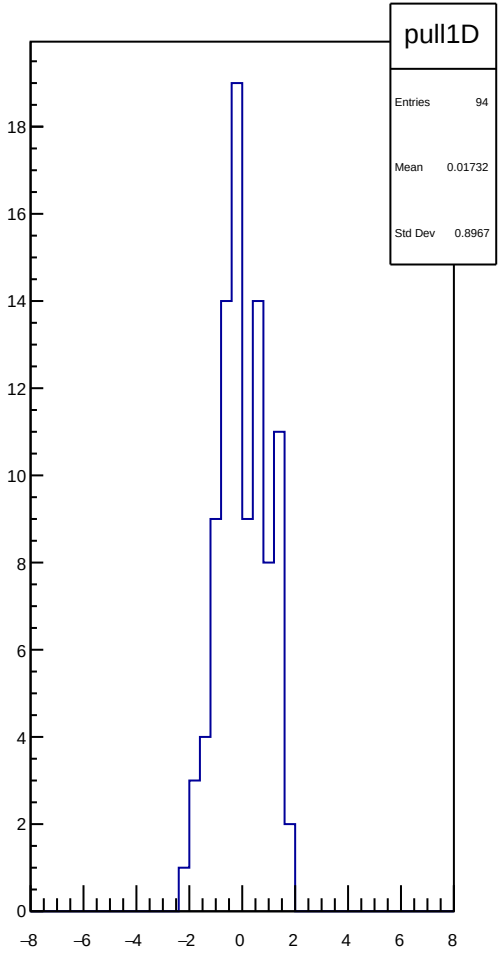

asym_usl_atl1_avg_reg_correction_rms vs run
χ² / ndf 1.75e+04 / 93
p0 1118 ± 0.833
1800
1700
1600
1500
1400
1300
1200
1100
1000
900

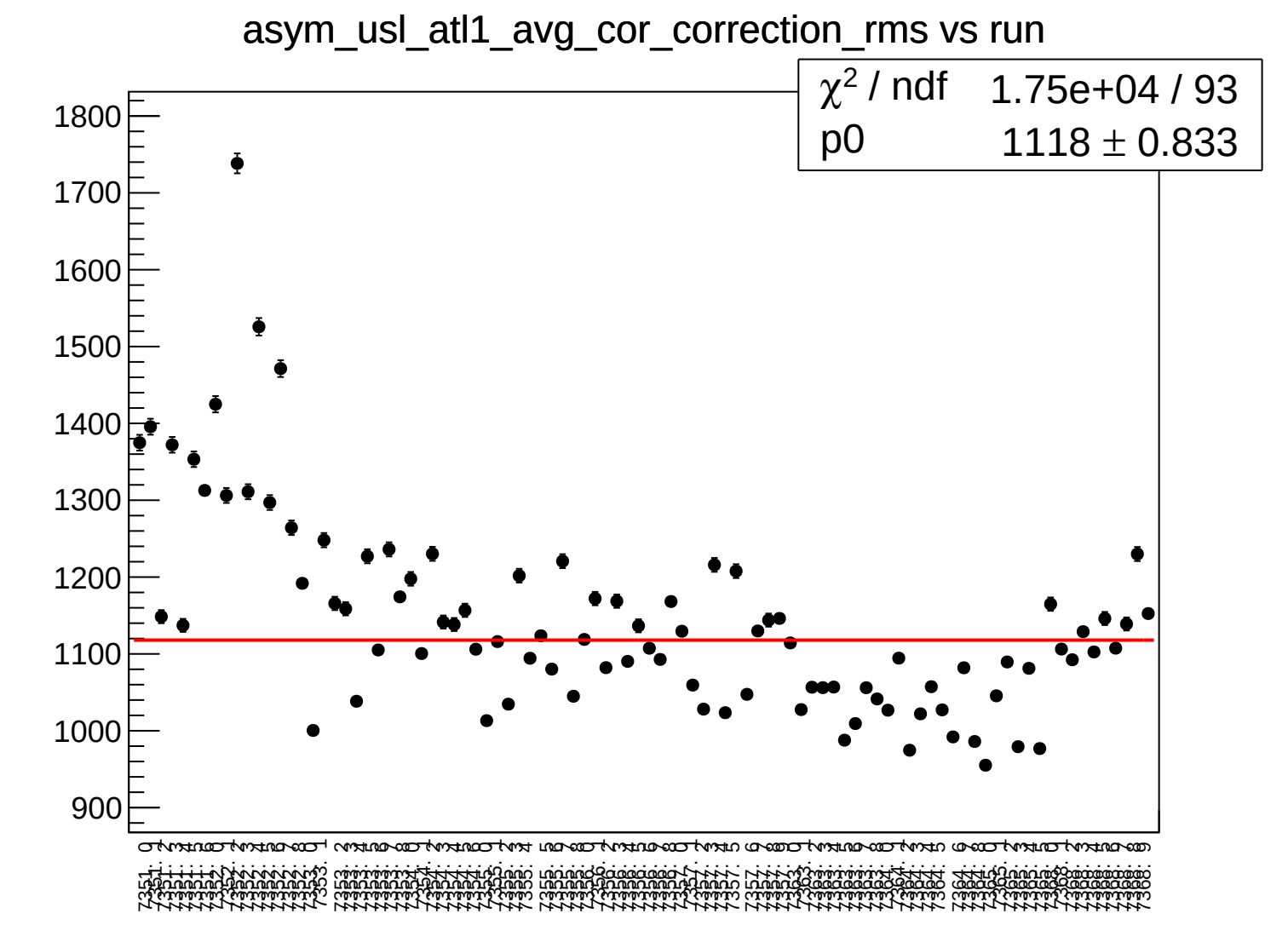

cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 64.13 / 93
p0 −2736 ± 1528
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 0.2091
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

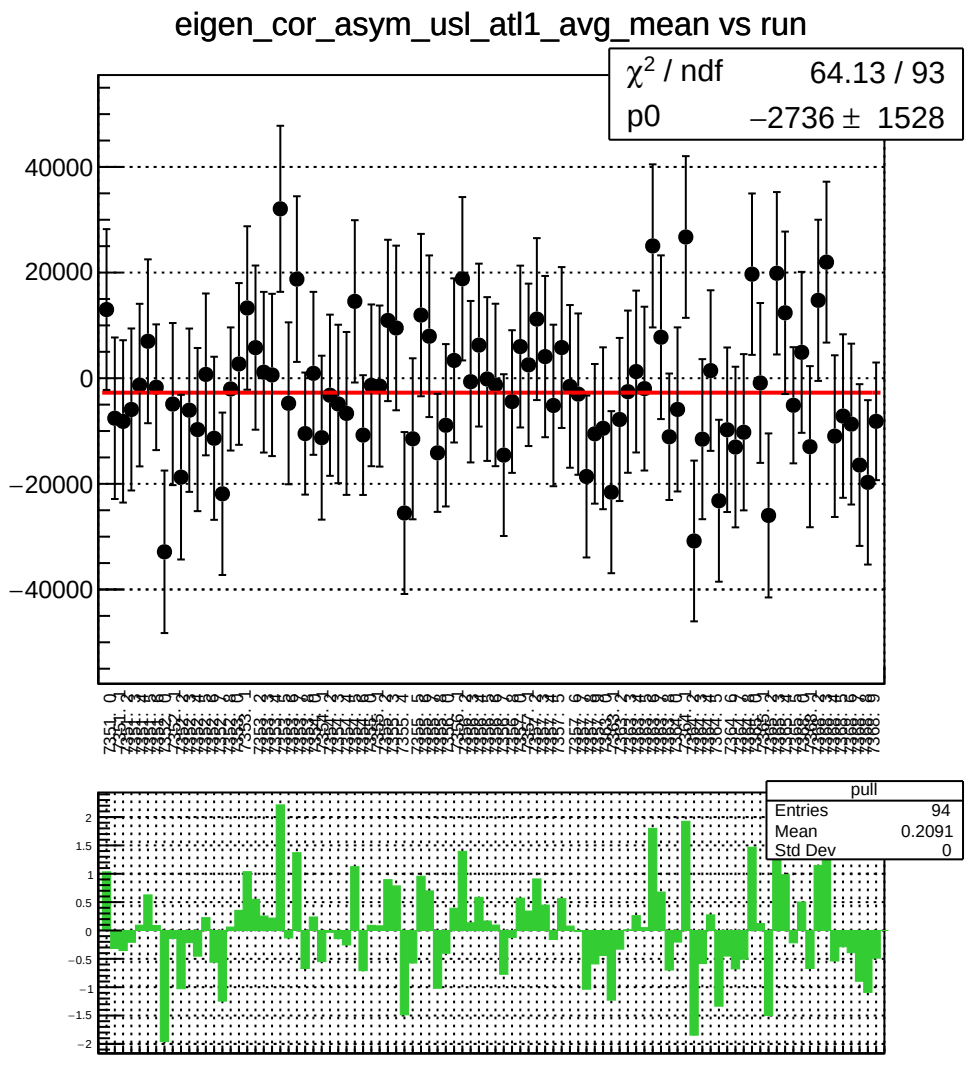

pull1D
Entries 94
Mean 0.01567
Std Dev 0.8258
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

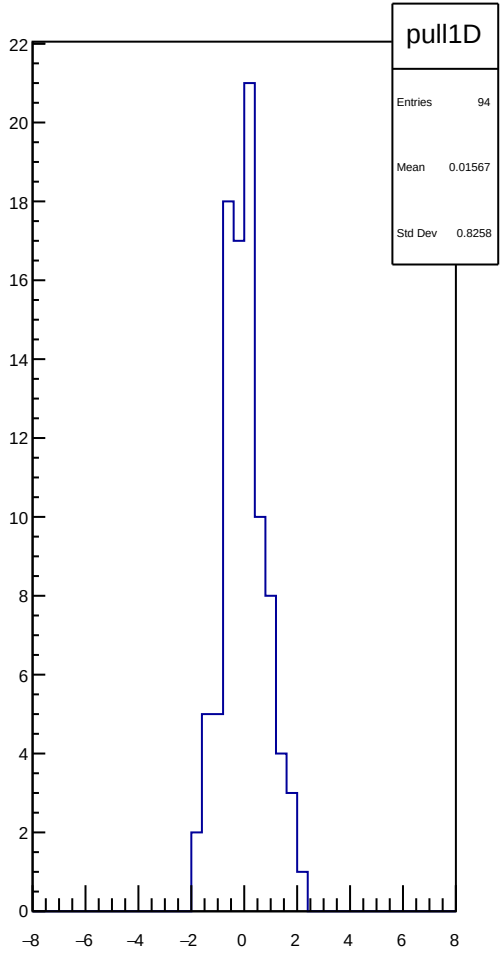

cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 110.4 / 93
p0 1457 ± 1.08
1500
1480
1460
1440
1420

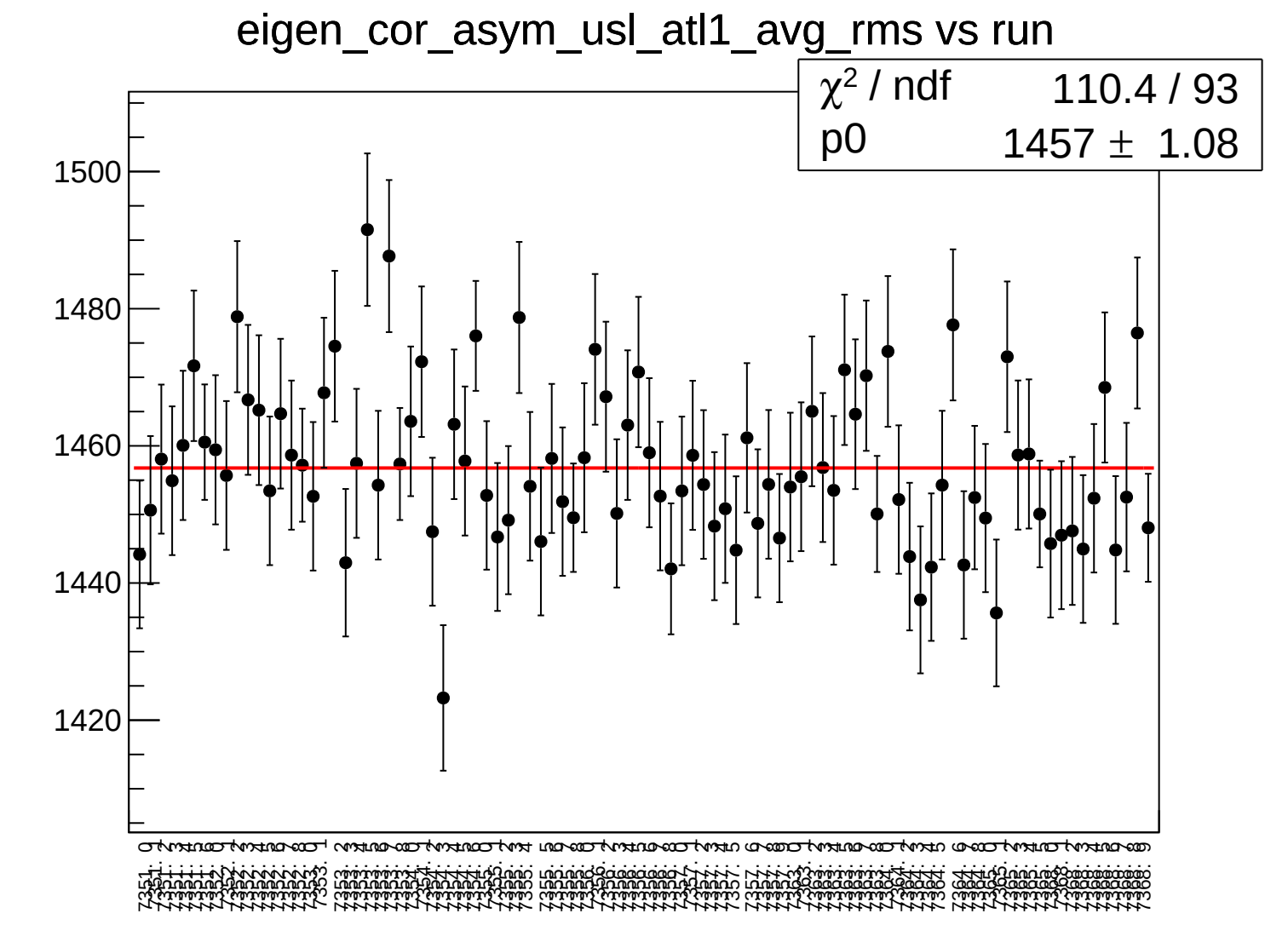

asym_usl_atl1_avg_cor_correction_mean vs run
χ² / ndf 75.61 / 93
p0 1292 ± 1178
pull
Entries 94
Mean −77.55
Std Dev 0

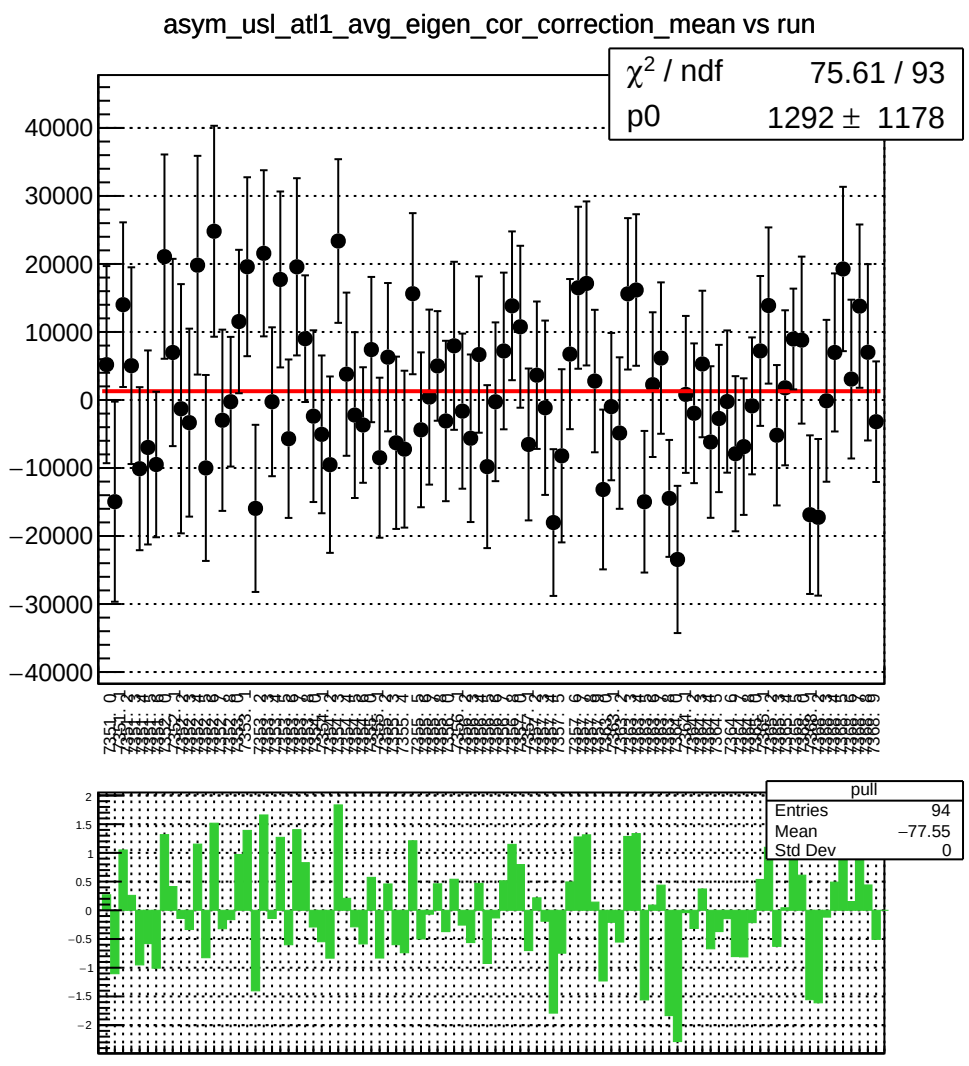

pull1D
Entries 94
Mean 0.01732
Std Dev 0.8967

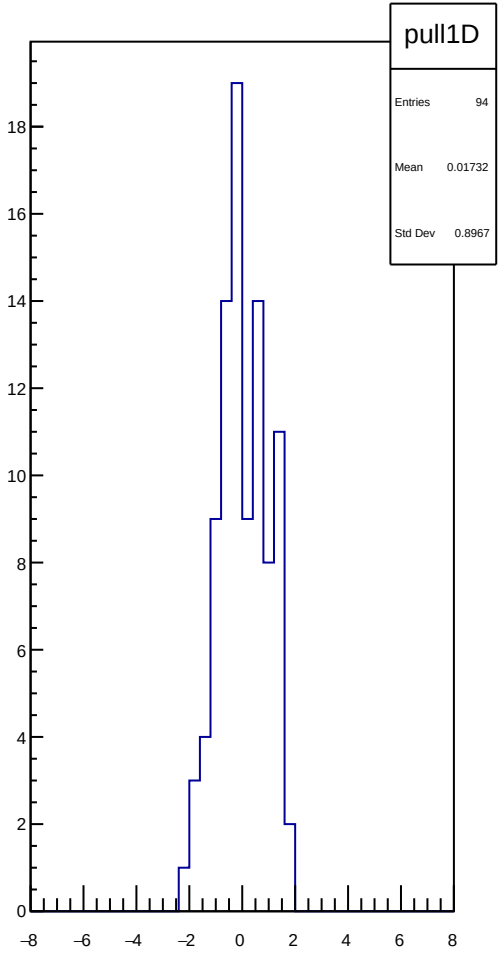

asym_usl_atl1_avg_cor_correction_rms vs run
χ² / ndf 1.75e+04 / 93
p0 1118 ± 0.833
1800
1700
1600
1500
1400
1300
1200
1100
1000
900

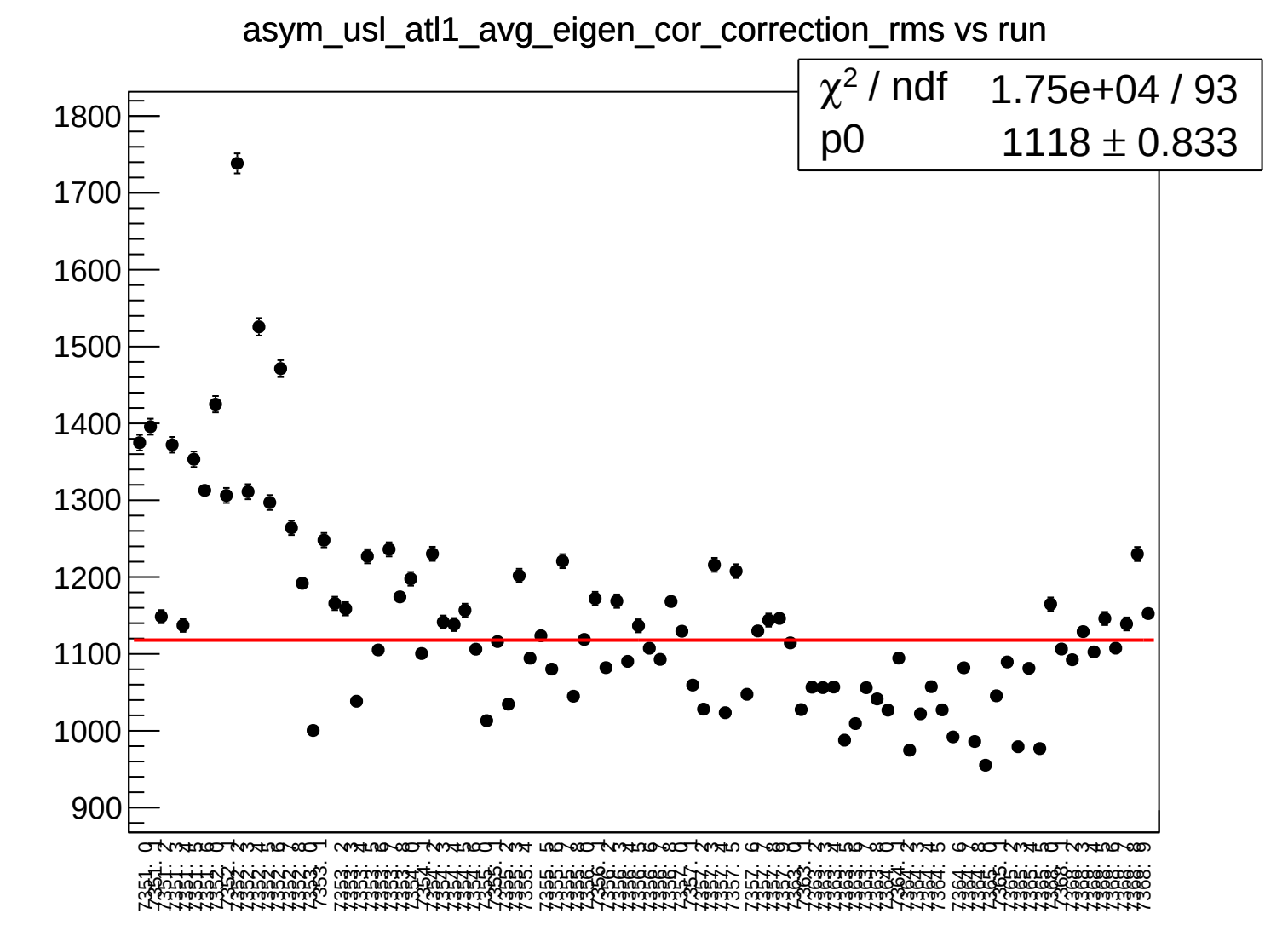

eigen_cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 64.13 / 93
p0 −2736 ± 1528
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 0.2091
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

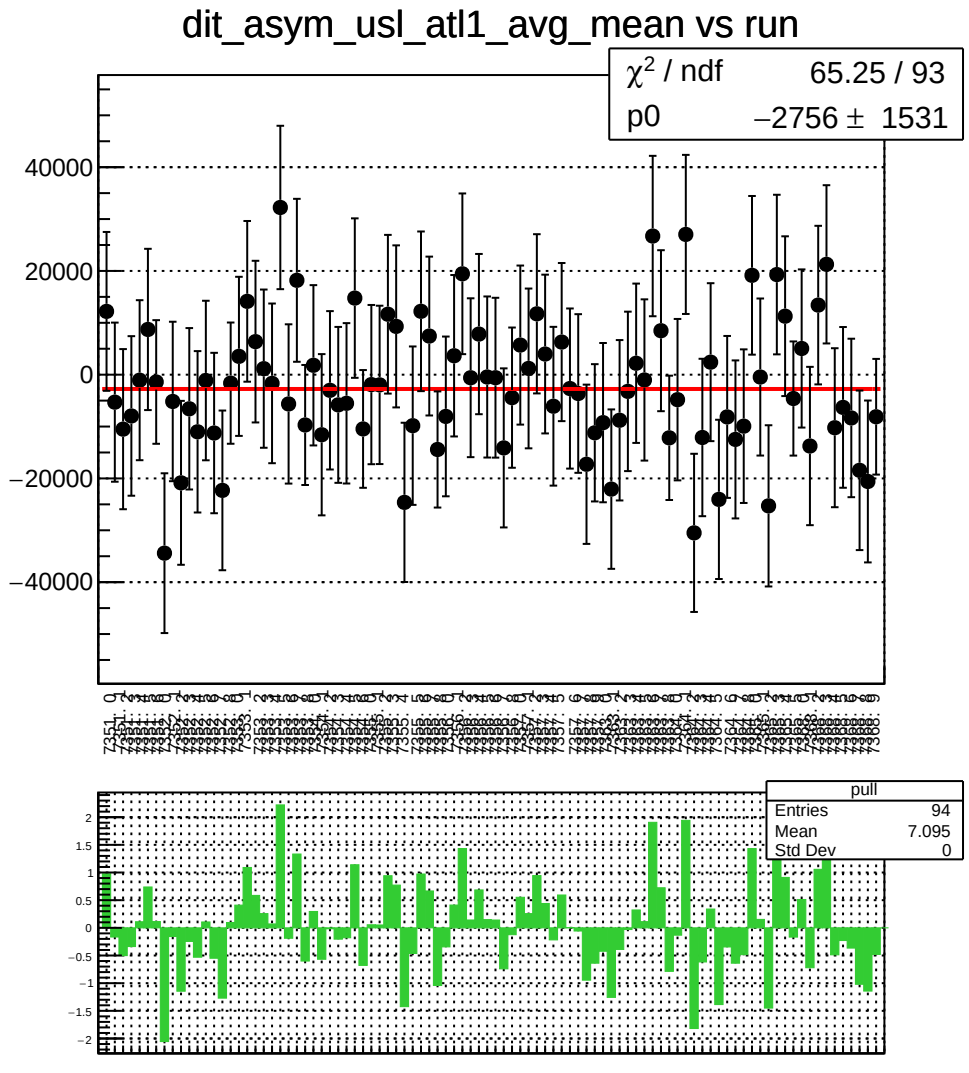

pull1D
Entries 94
Mean 0.01567
Std Dev 0.8258
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

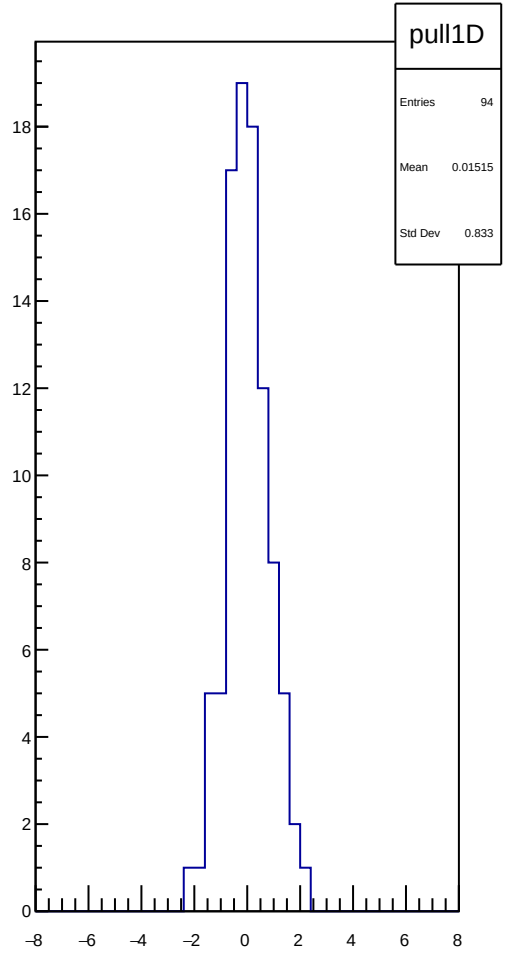

eigen_cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 110.4 / 93
p0 1457 ± 1.08
1500
1480
1460
1440
1420

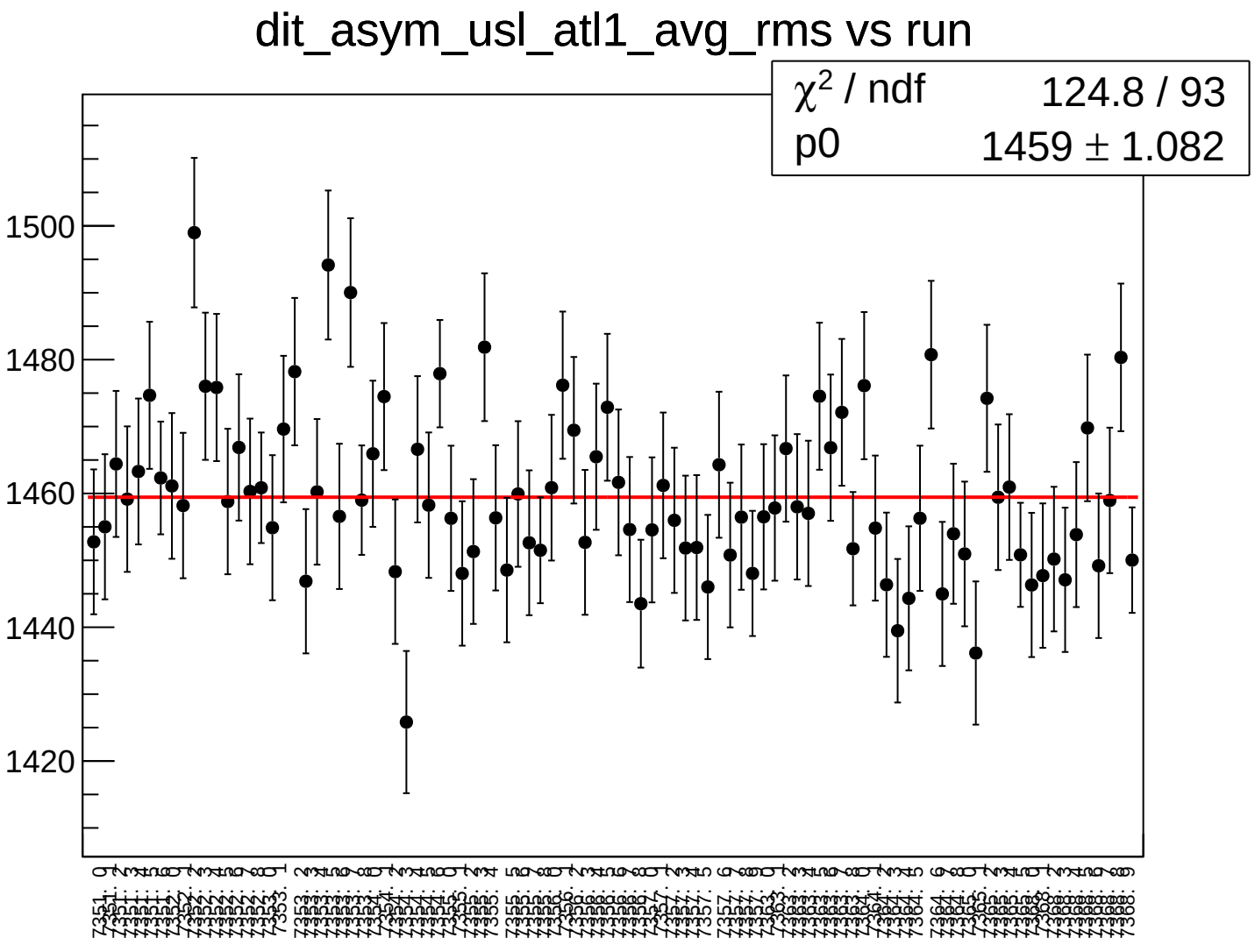

asym_usl_atl1_avg_eigen_cor_correction_mean vs run
χ² / ndf 75.61 / 93
p0 1292 ± 1178
pull
Entries 94
Mean −77.55
Std Dev 0

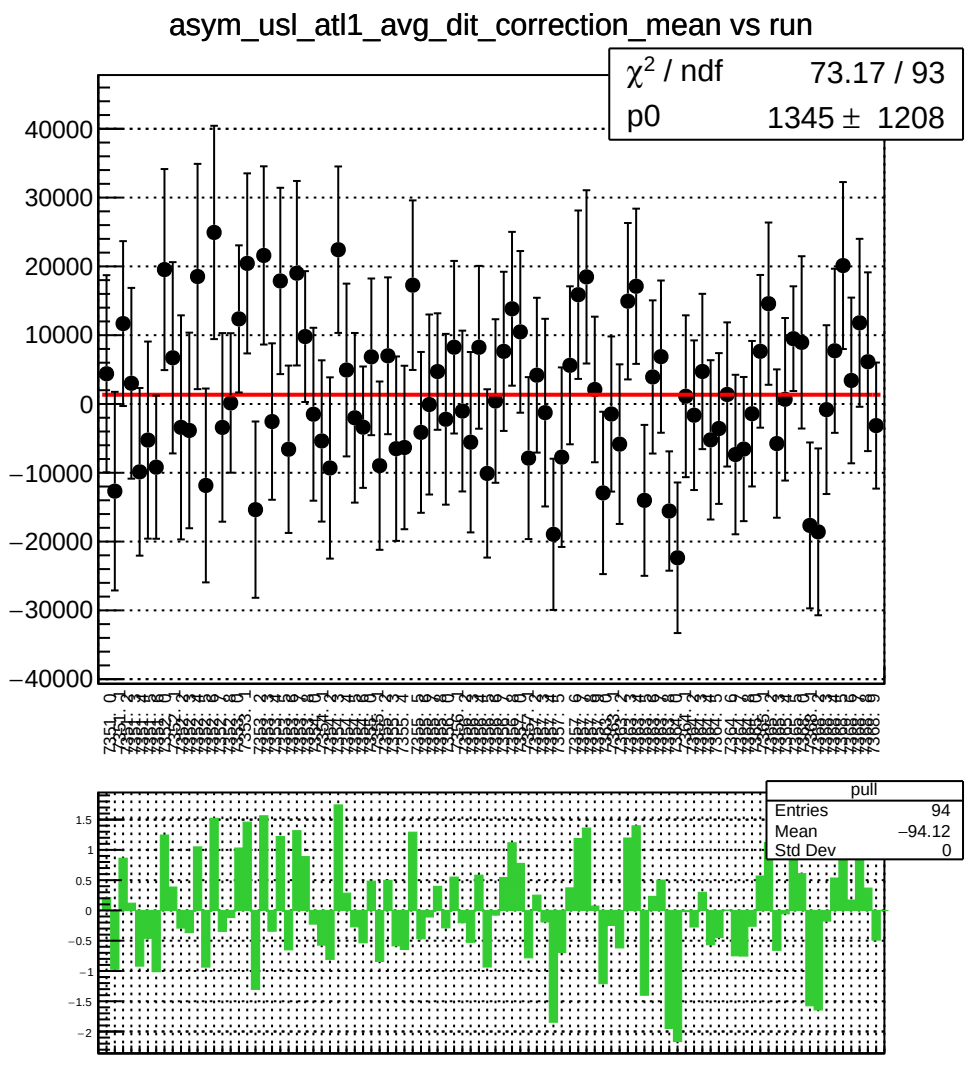

pull1D
Entries 94
Mean 0.01732
Std Dev 0.8967

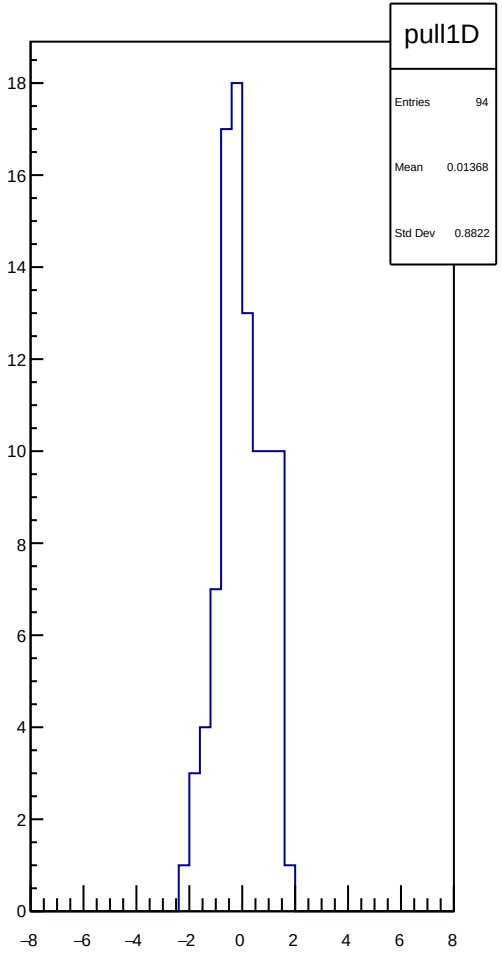

asym_usl_atl1_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.75e+04 / 93
p0 1118 ± 0.833
1800
1700
1600
1500
1400
1300
1200
1100
1000
900

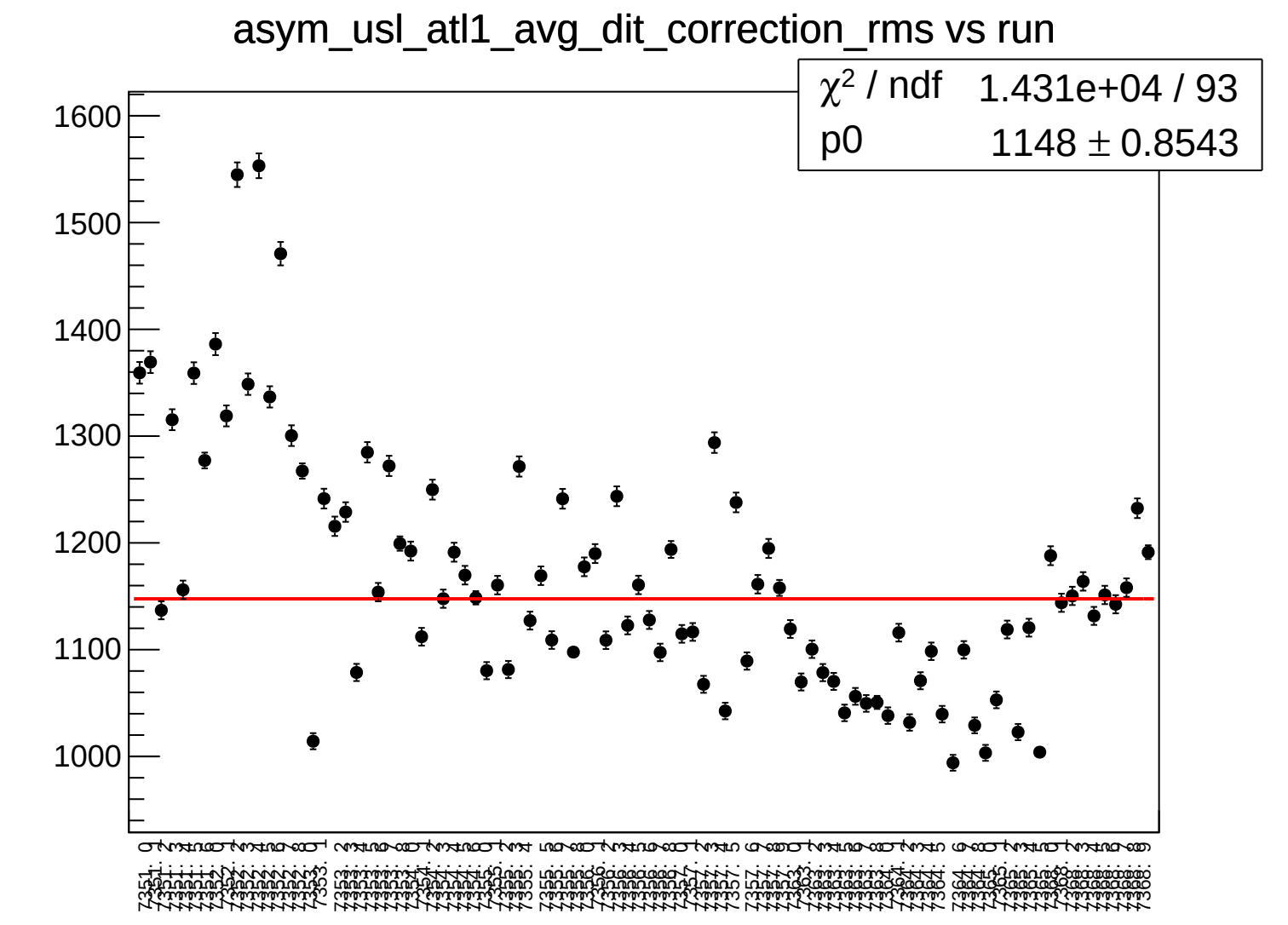

dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 65.25 / 93
p0 −2756 ± 1531
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 7.095
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

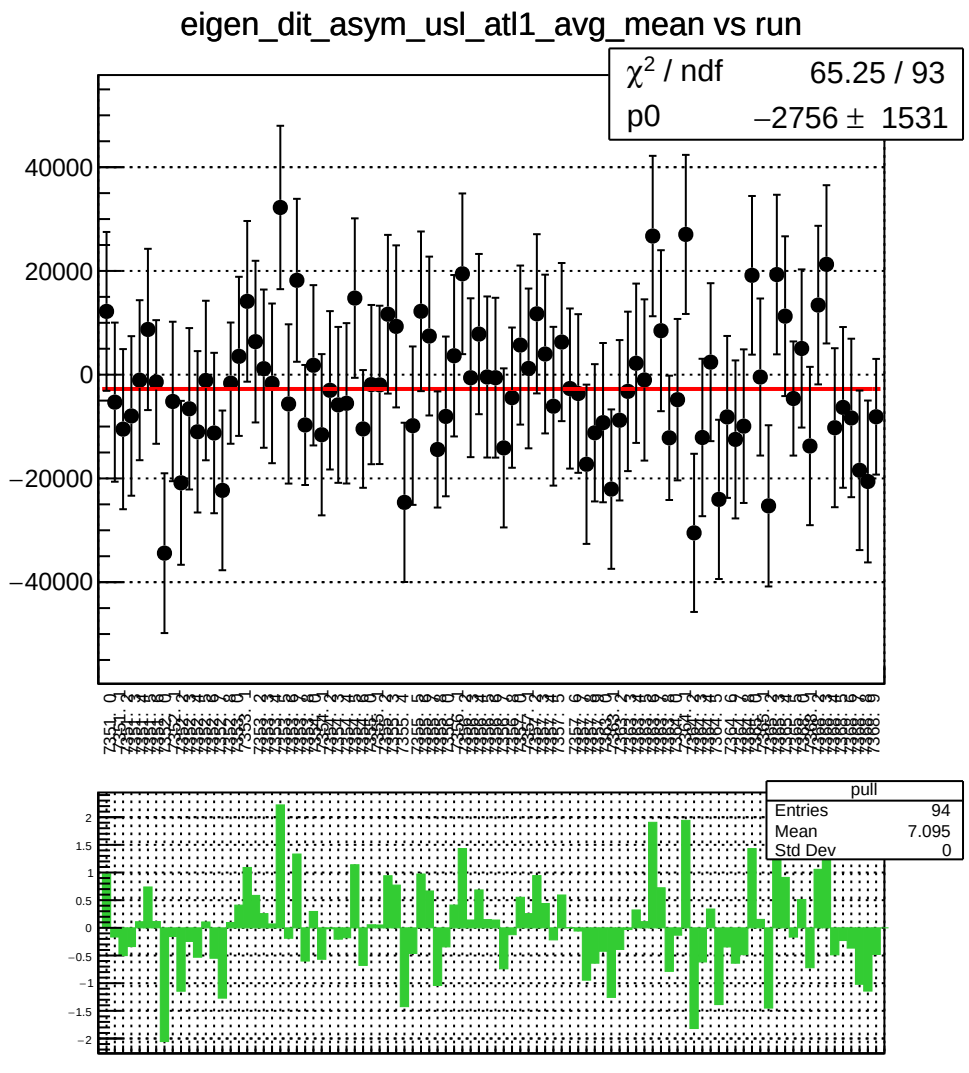

pull1D
Entries 94
Mean 0.01515
Std Dev 0.833
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

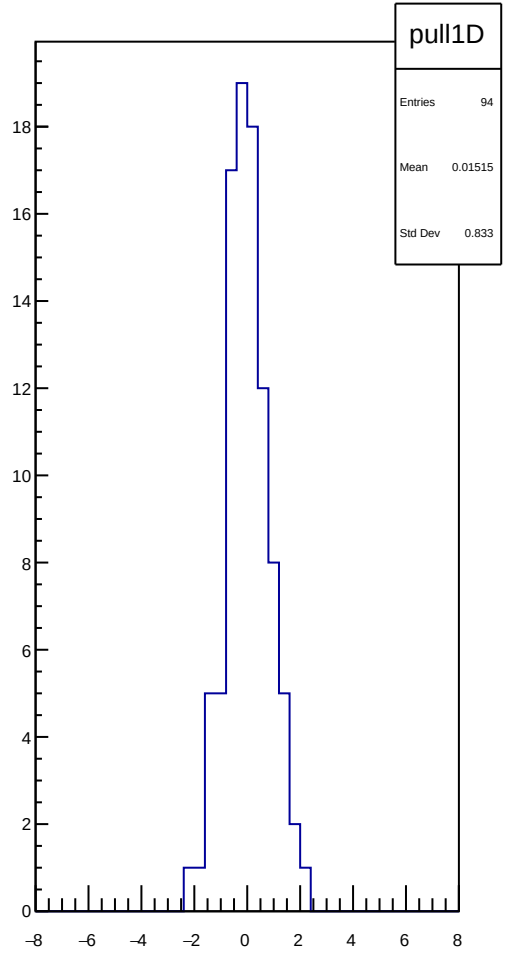

dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 124.8 / 93
p0 1459 ± 1.082
1500
1480
1460
1440
1420

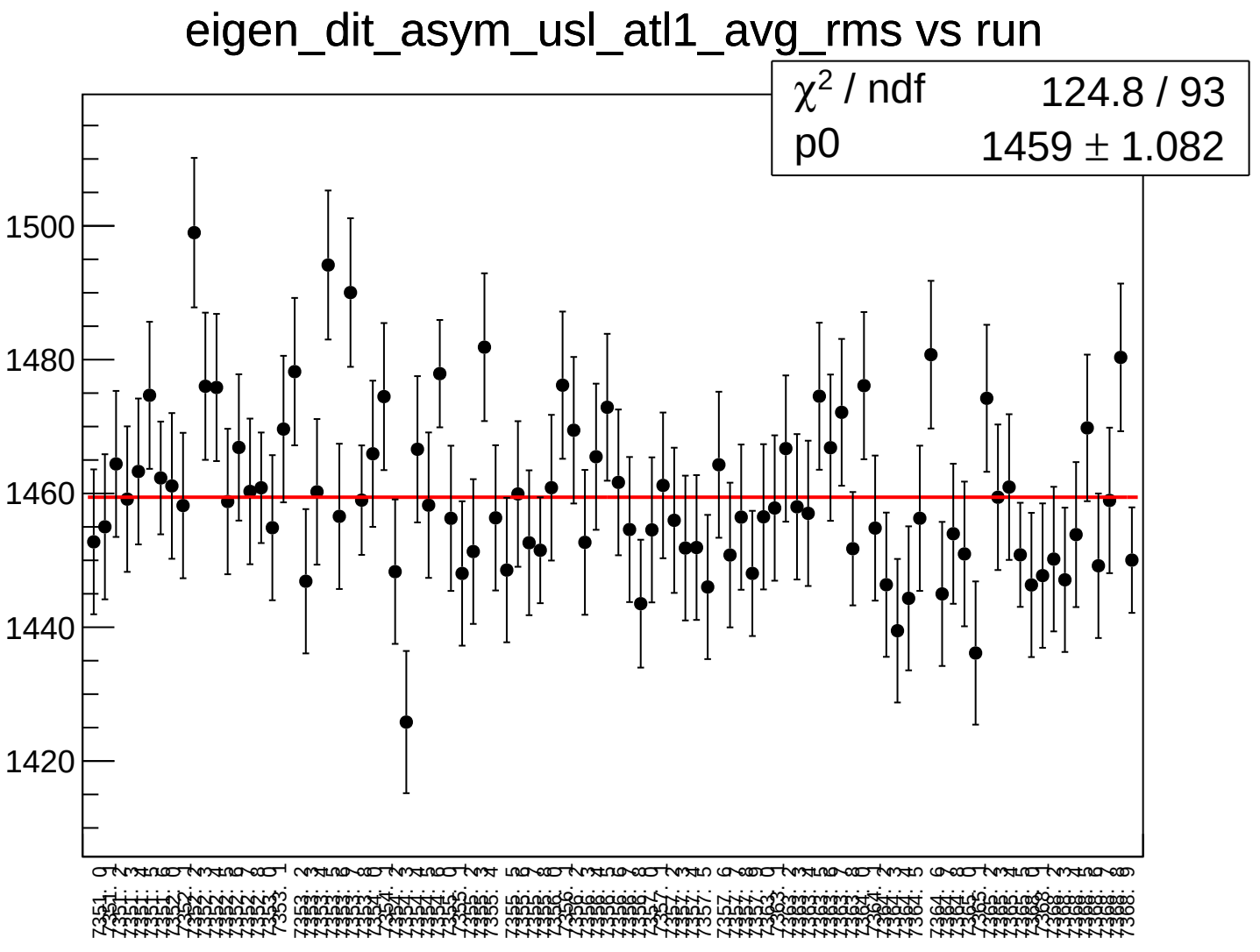

asym_usl_atl1_avg_dit_correction_mean vs run
χ² / ndf 73.17 / 93
p0 1345 ± 1208
pull
Entries 94
Mean −94.12
Std Dev 0

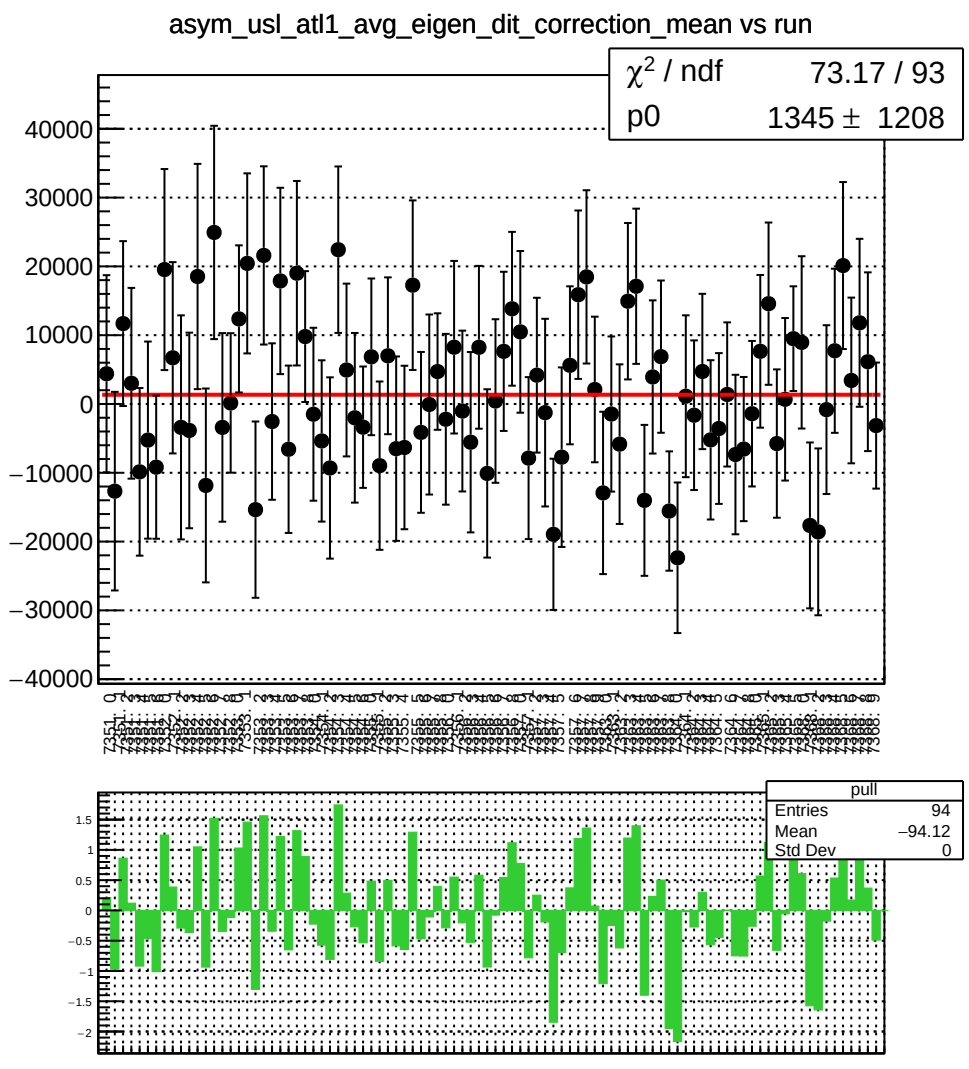

pull1D
Entries 94
Mean 0.01368
Std Dev 0.8822

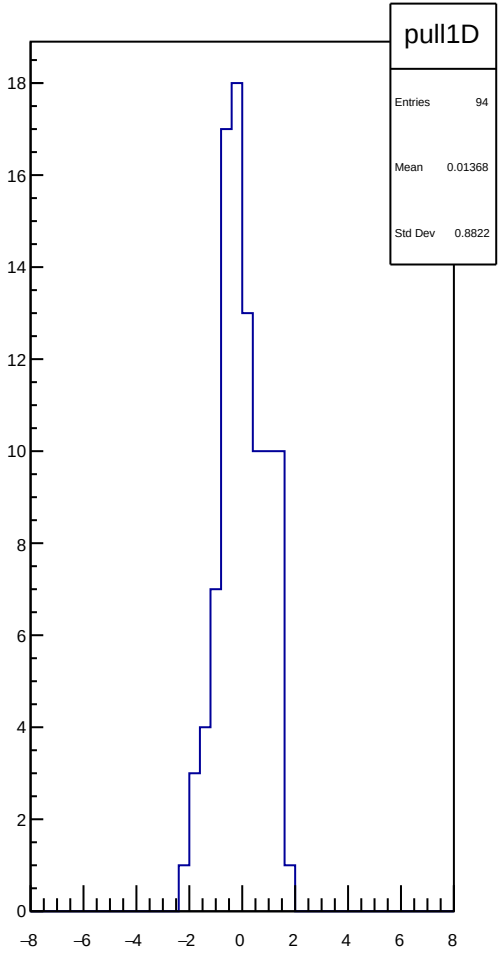

asym_usl_atl1_avg_dit_correction_rms vs run
χ² / ndf 1.431e+04 / 93
p0 1148 ± 0.8543
1600
1500
1400
1300
1200
1100
1000

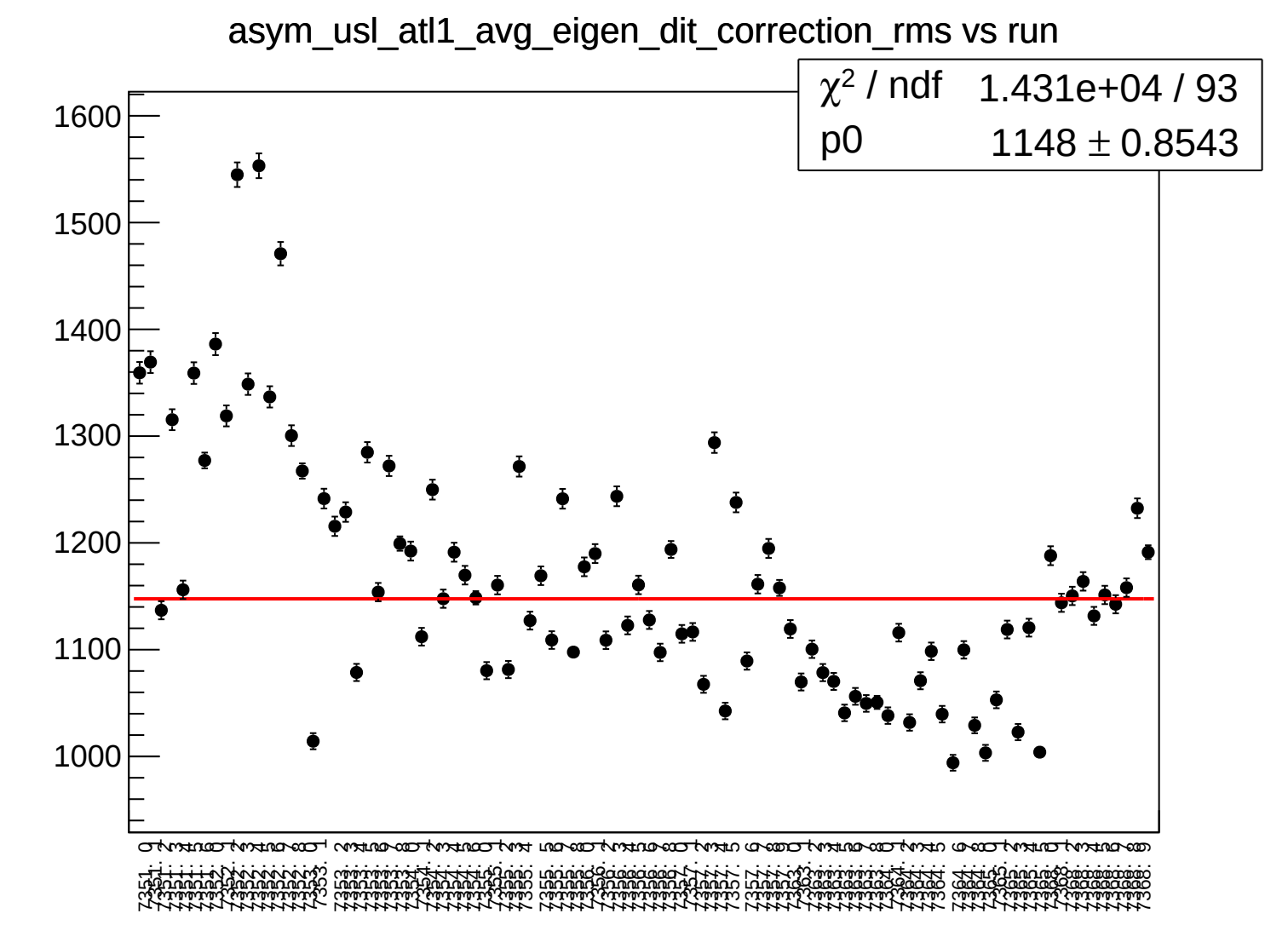

eigen_dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 65.25 / 93
p0 −2756 ± 1531
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 7.095
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

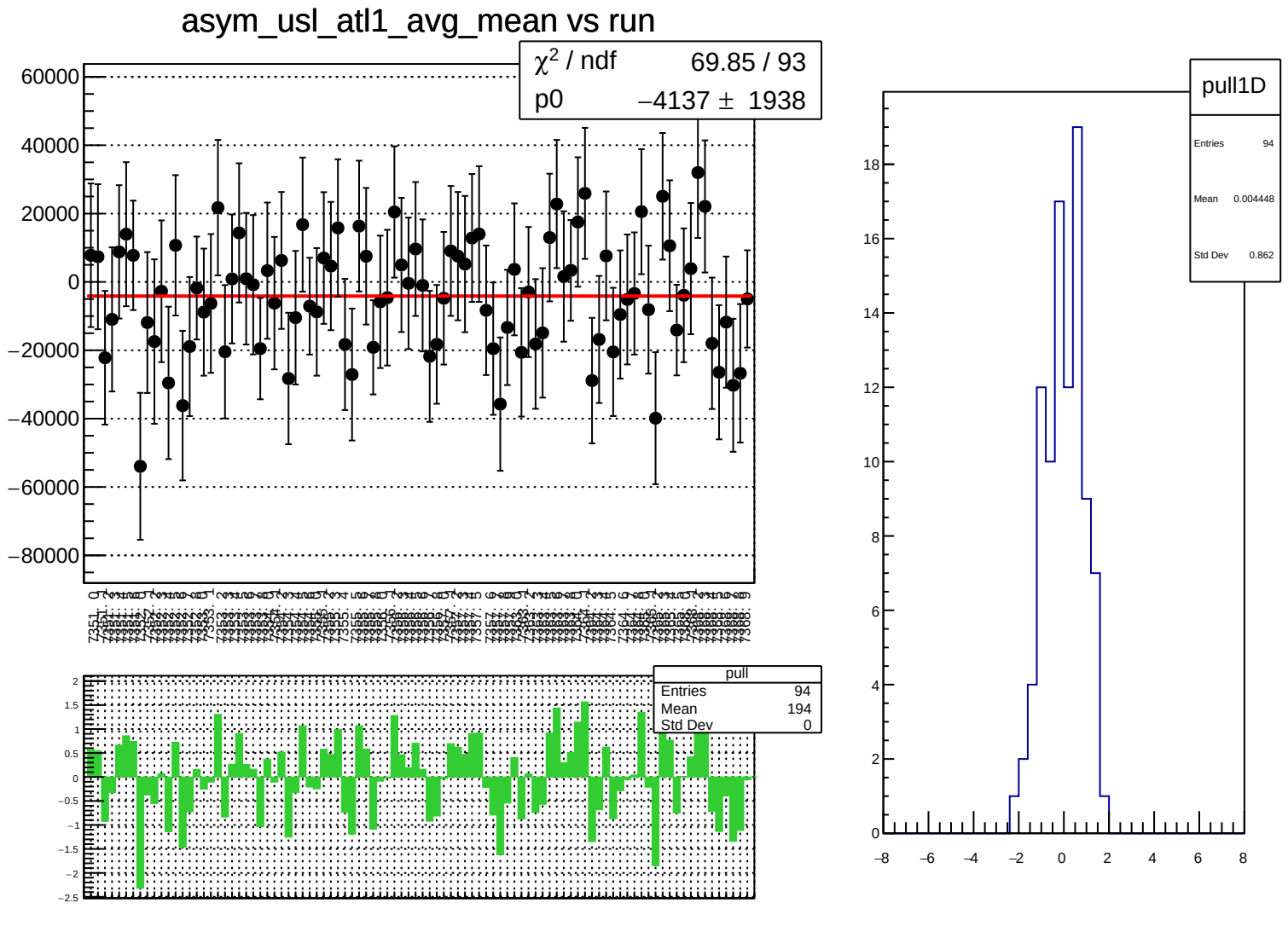

pull1D
Entries 94
Mean 0.01515
Std Dev 0.833
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

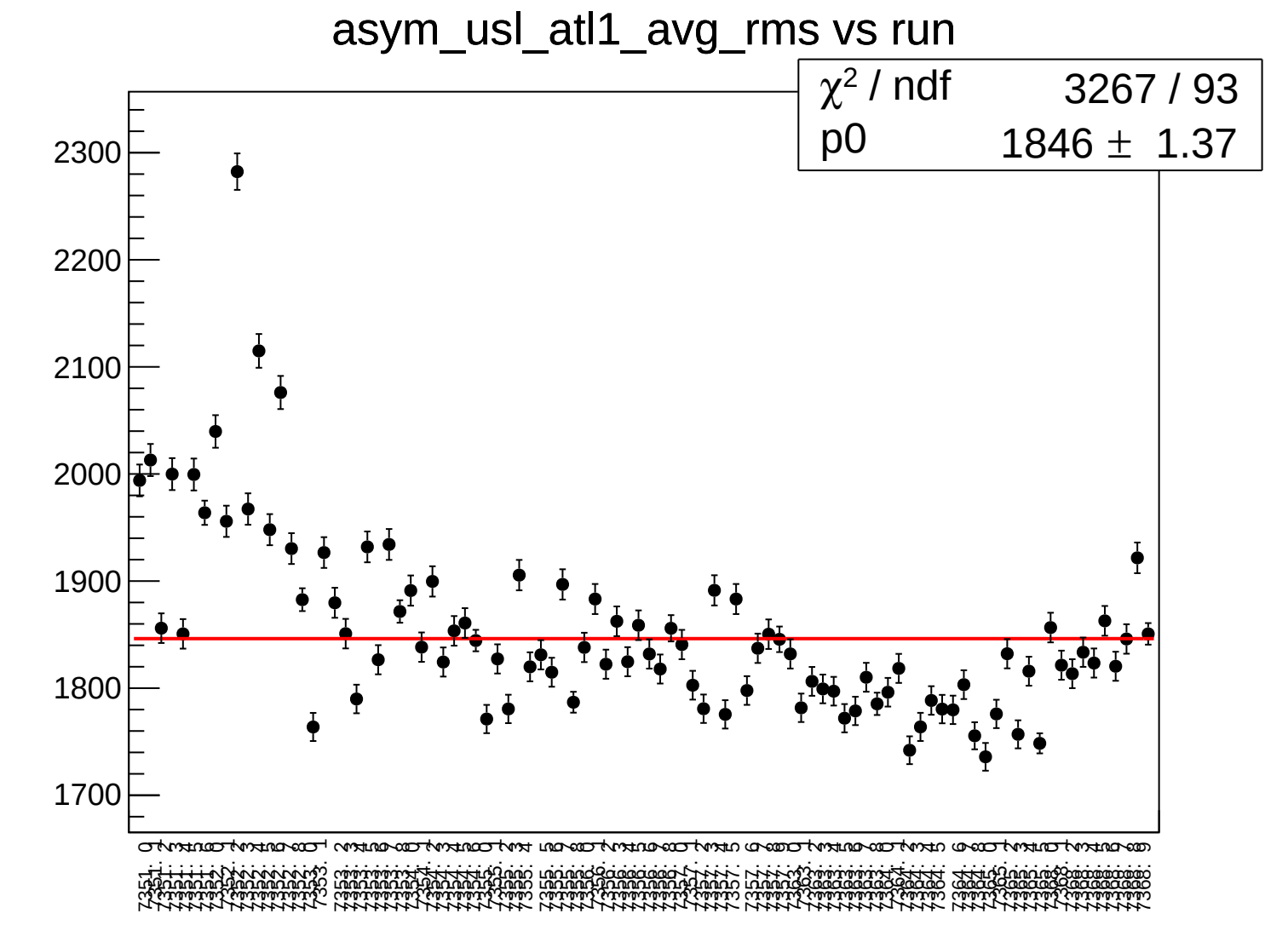

eigen_dit_asym_usl_atl1_avg_rms vs run
χ^2 / ndf 124.8 / 93
p0 1459 ± 1.082
1500
1480
1460
1440
1420

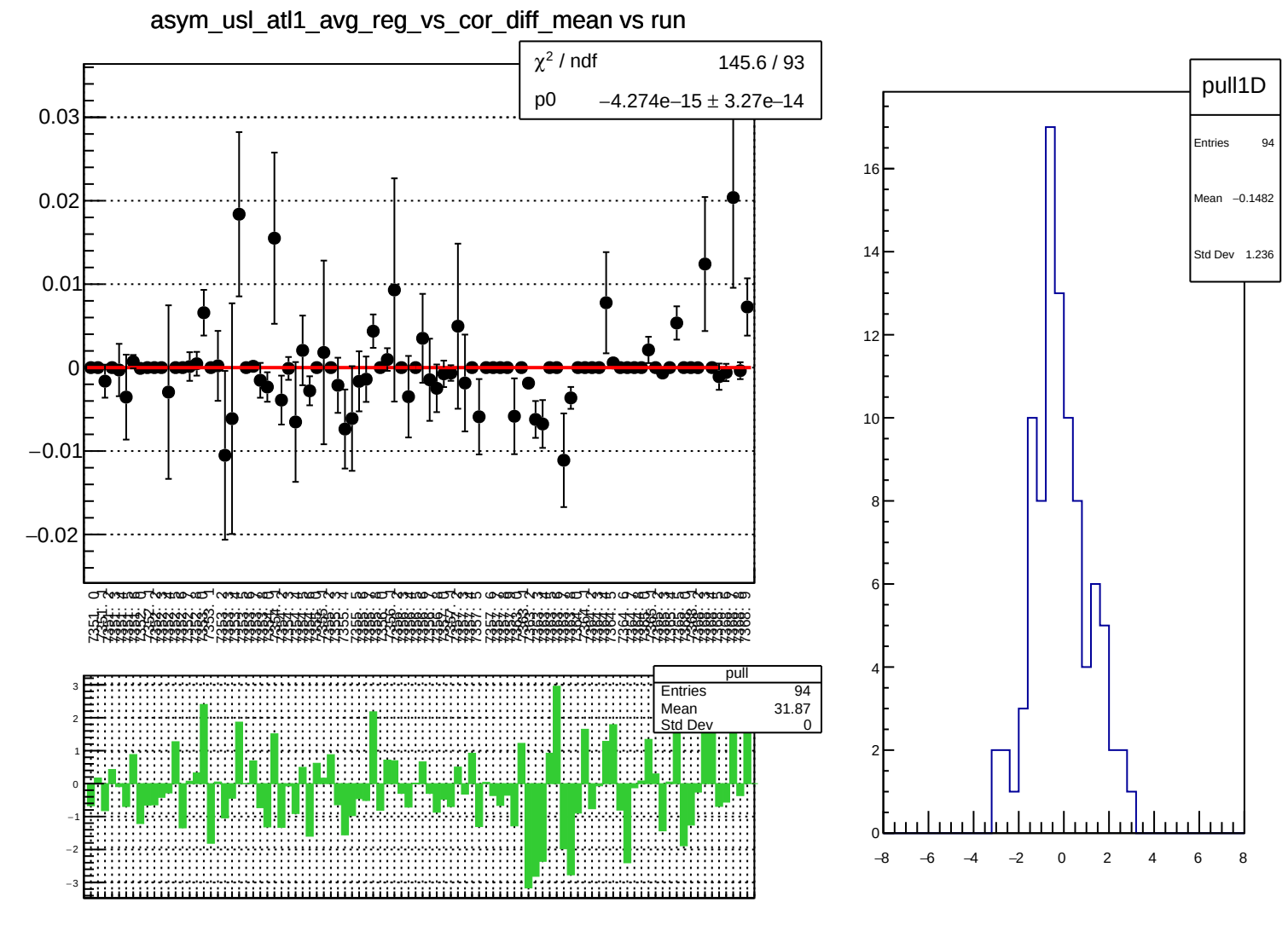

asym_usl_atl1_avg_eigen_dit_correction_mean vs run
χ² / ndf 73.17 / 93
p0 1345 ± 1208
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 94
Mean −94.12
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

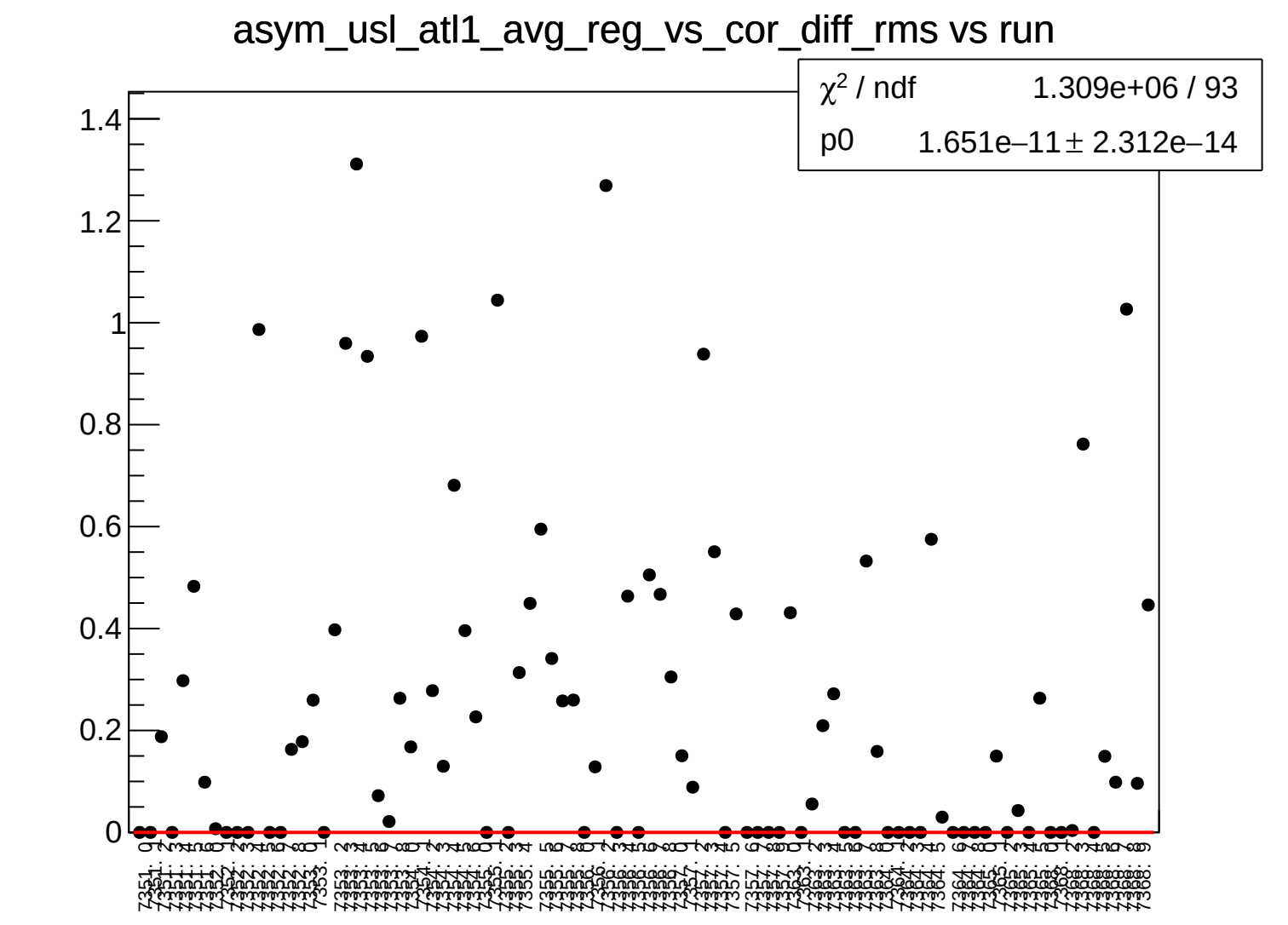

pull1D
Entries 94
Mean 0.01368
Std Dev 0.8822
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

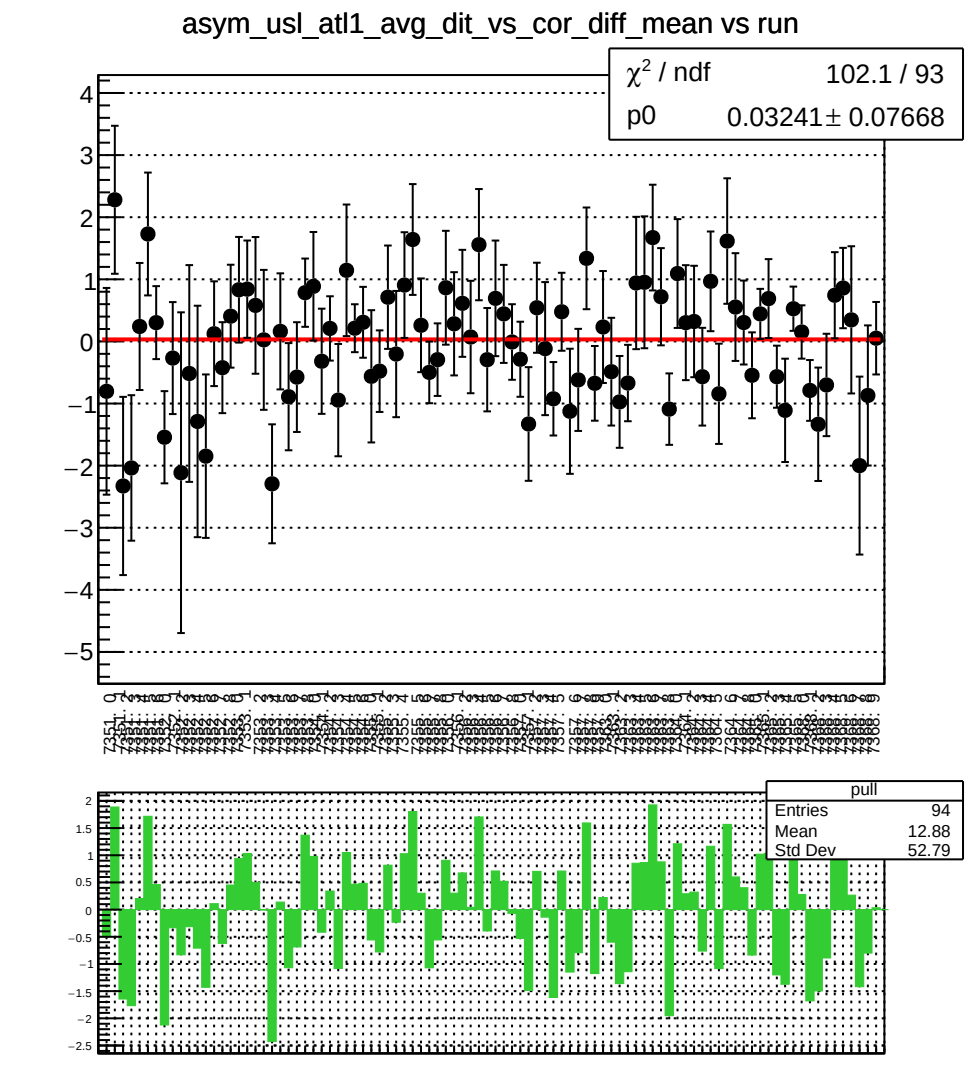

asym_usl_atl1_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.431e+04 / 93
p0 1148 ± 0.8543
1600
1500
1400
1300
1200
1100
1000

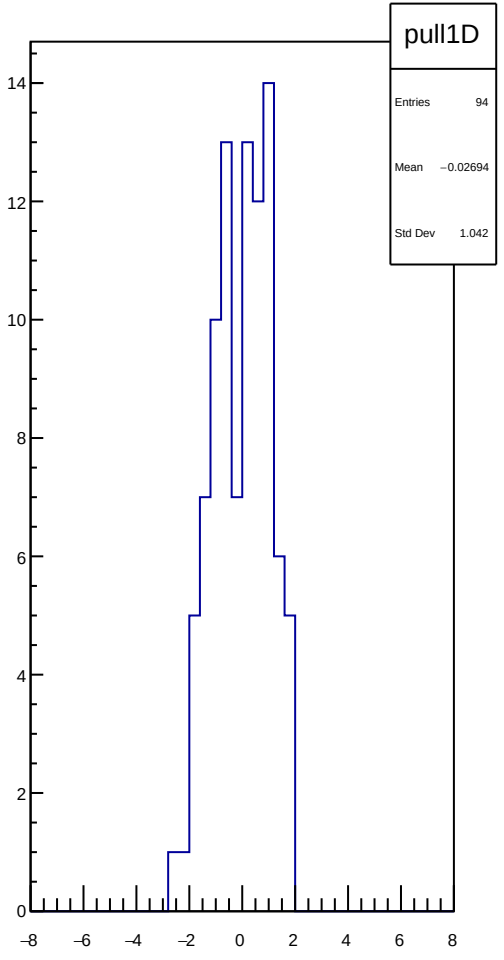

asym_usl_atl1_avg_mean vs run
χ^2 / ndf 69.85 / 93
p0 −4137 ± 1938
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean 194
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 94
Mean 0.004448
Std Dev 0.862
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

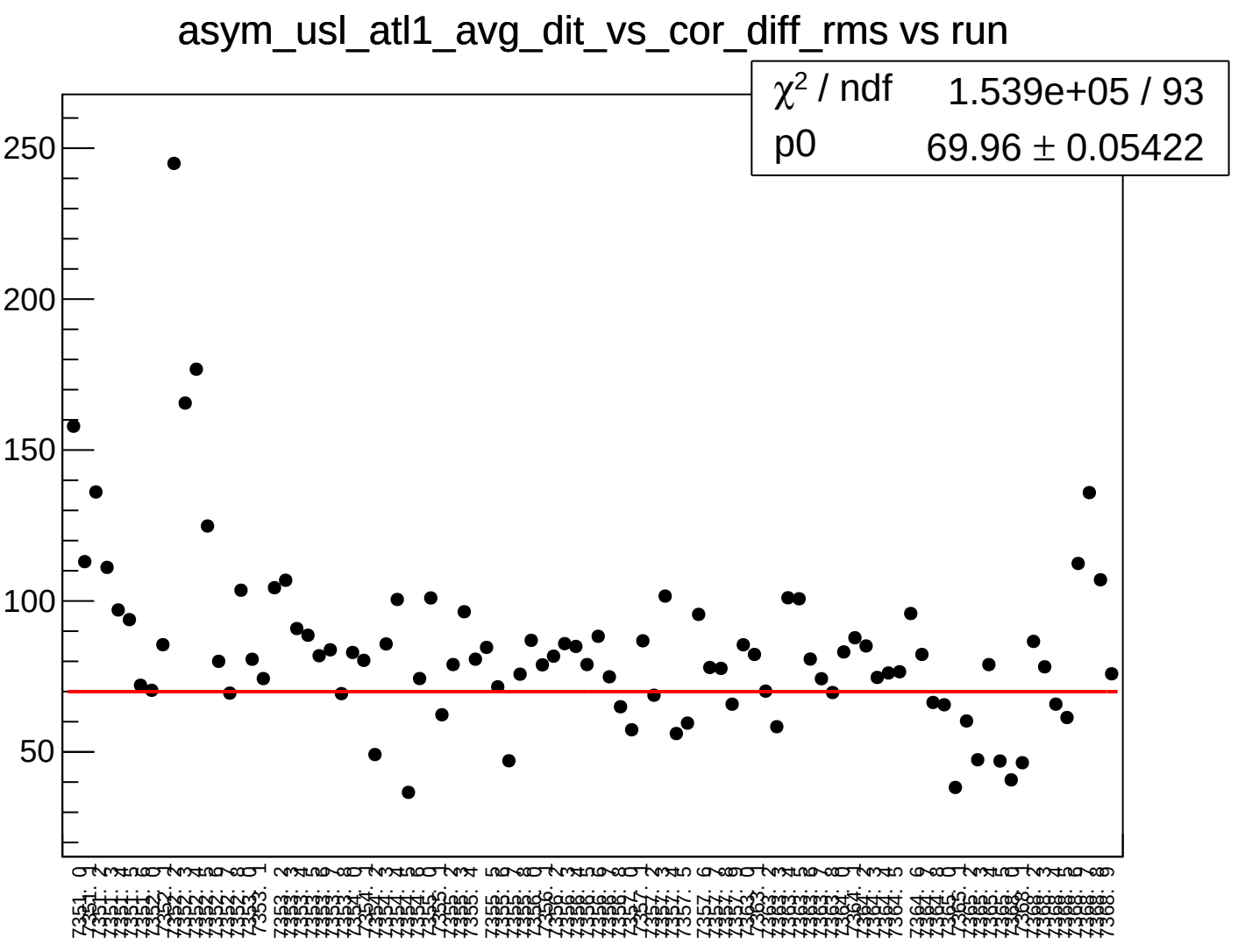

asym_usl_atl1_avg_rms vs run
χ² / ndf 3267 / 93
p0 1846 ± 1.37
2300
2200
2100
2000
1900
1800
1700

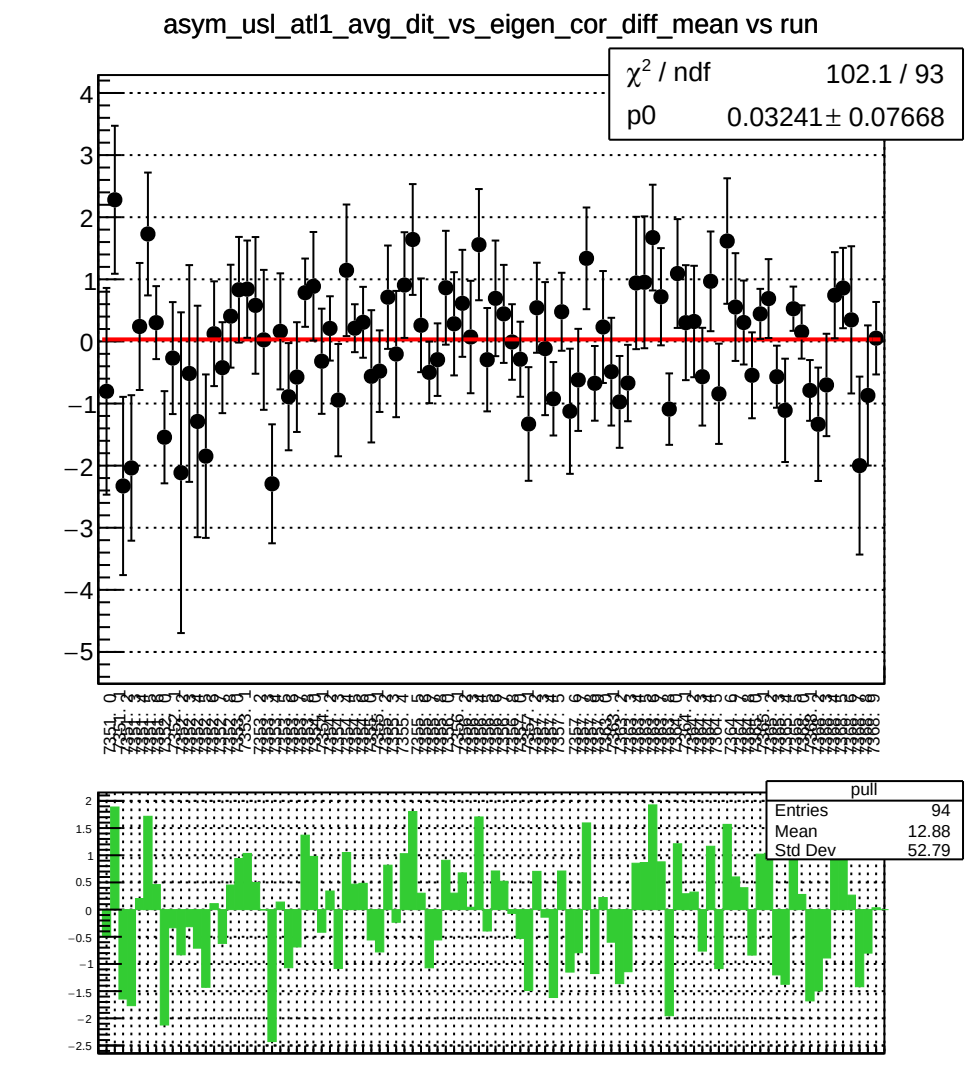

asym_usl_atl1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 145.6 / 93
p0 −4.274e−15 ± 3.27e−14
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 94
Mean 31.87
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.1482
Std Dev 1.236
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

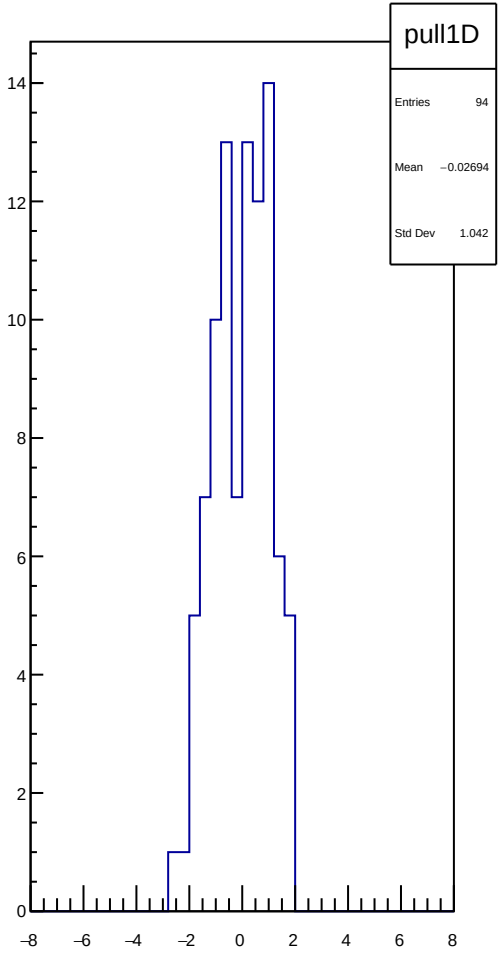

asym_usl_atl1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.309e+06 / 93
p0 1.651e−11 ± 2.312e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

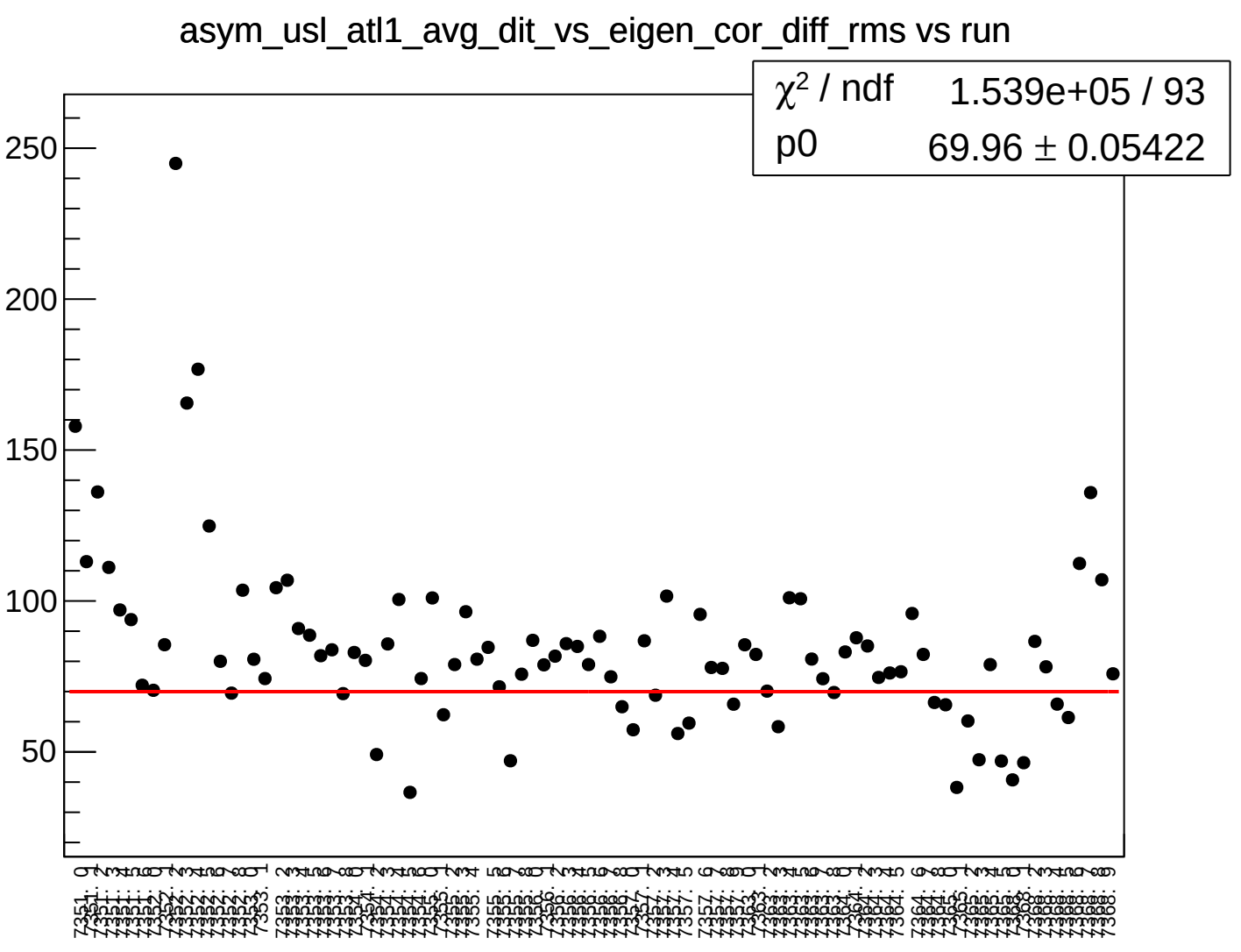

asym_usl_atl1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 102.1 / 93
p0 0.03241 ± 0.07668
pull
Entries 94
Mean 12.88
Std Dev 52.79

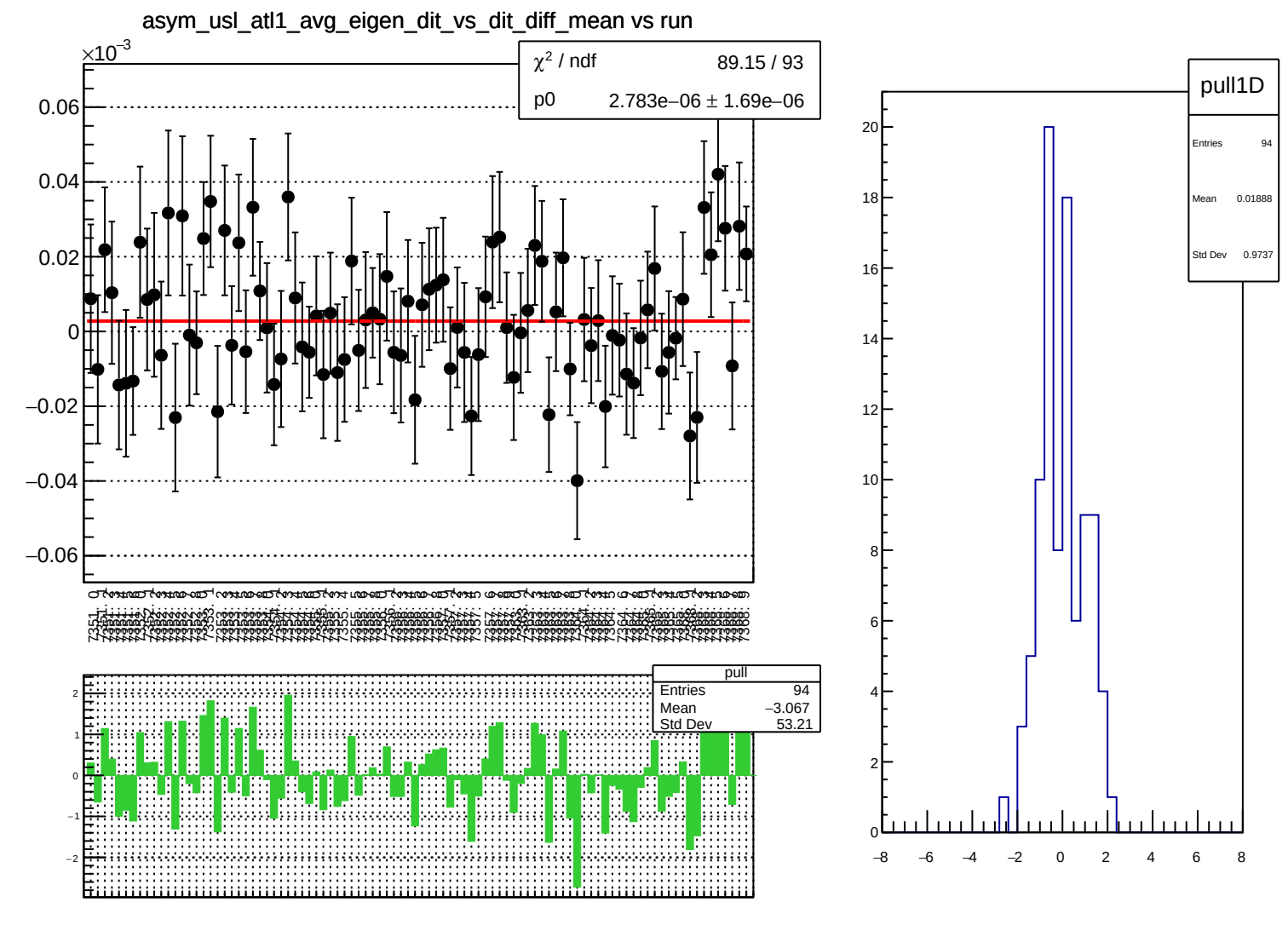

pull1D
Entries 94
Mean −0.02694
Std Dev 1.042

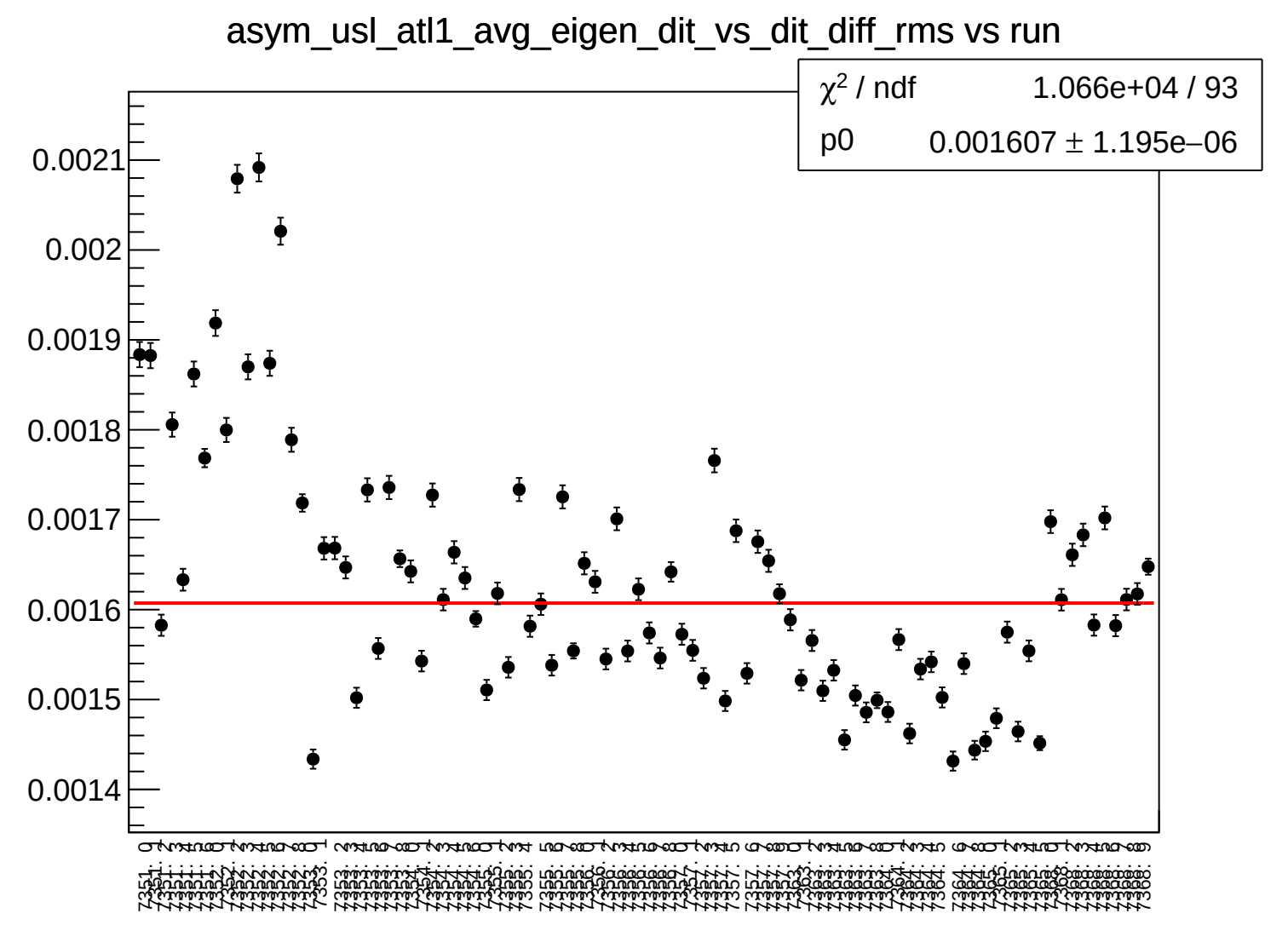

asym_usl_atl1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.539e+05 / 93
p0 69.96 ± 0.05422
250
200
150
100
50

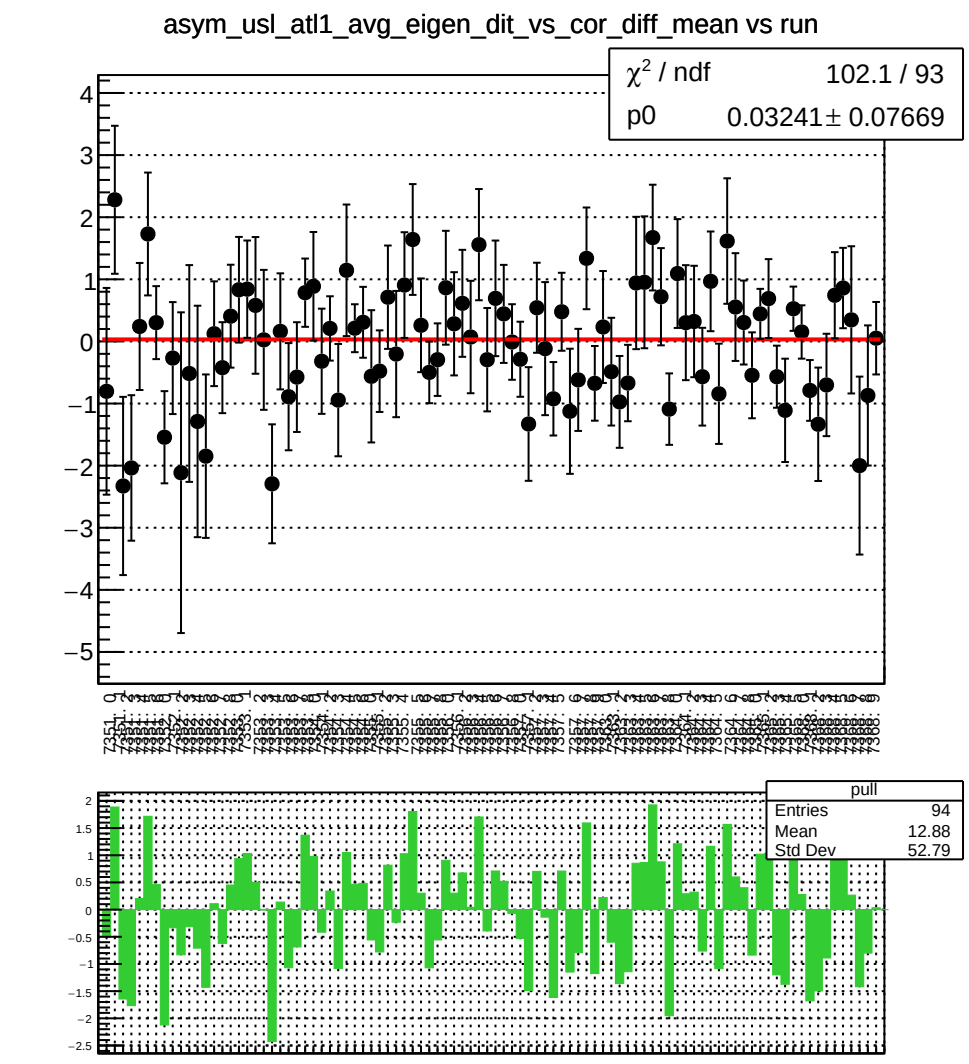

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.1 / 93
p0 0.03241 ± 0.07668
pull
Entries 94
Mean 12.88
Std Dev 52.79

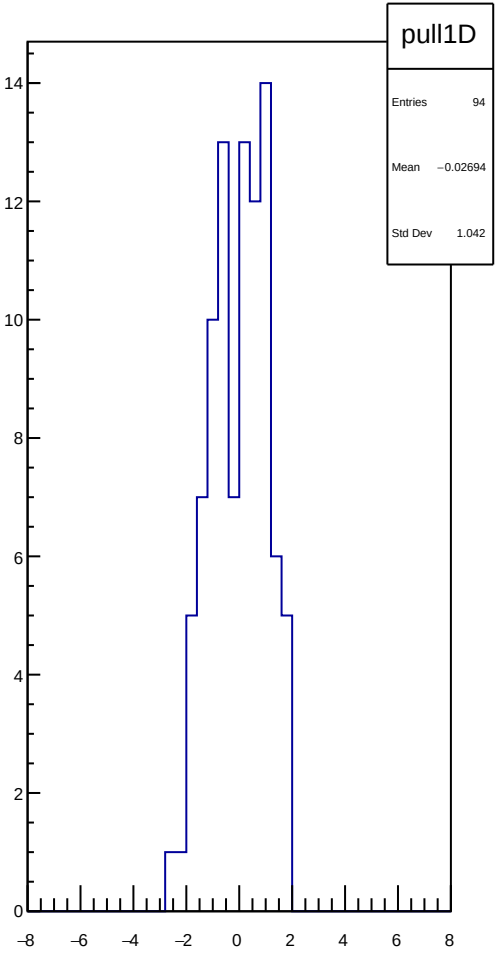

pull1D
Entries 94
Mean −0.02694
Std Dev 1.042

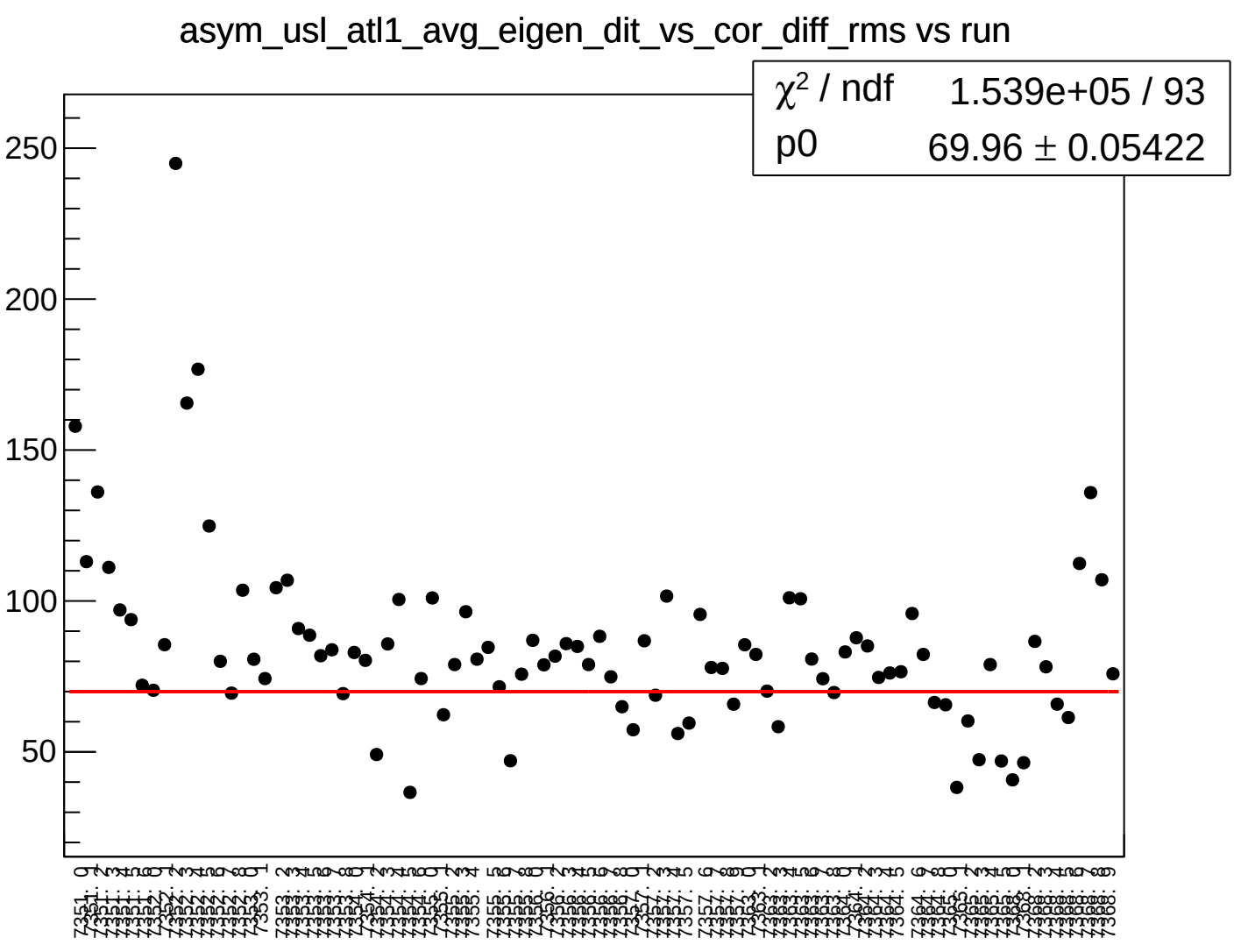

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.539e+05 / 93
p0 69.96 ± 0.05422
250
200
150
100
50

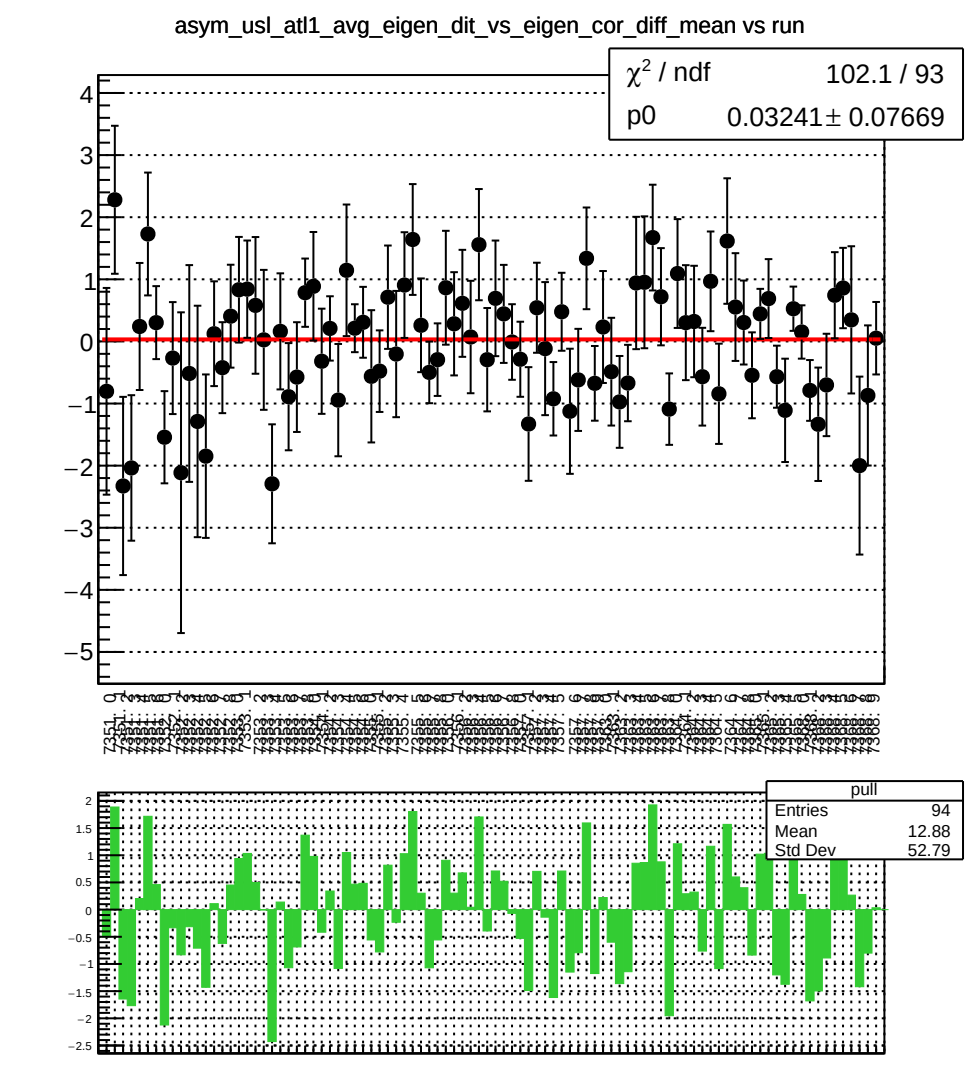

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 89.15 / 93
p0 2.783e−06 ± 1.69e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 94
Mean −3.067
Std Dev 53.21
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.01888
Std Dev 0.9737
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

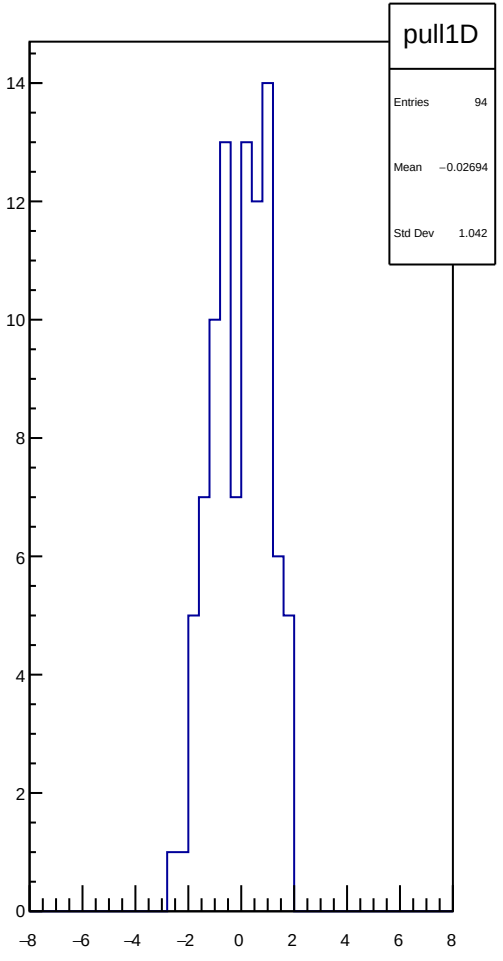

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.066e+04 / 93
p0 0.001607 ± 1.195e−06
0.0021
0.002
0.0019
0.0018
0.0017
0.0016
0.0015
0.0014

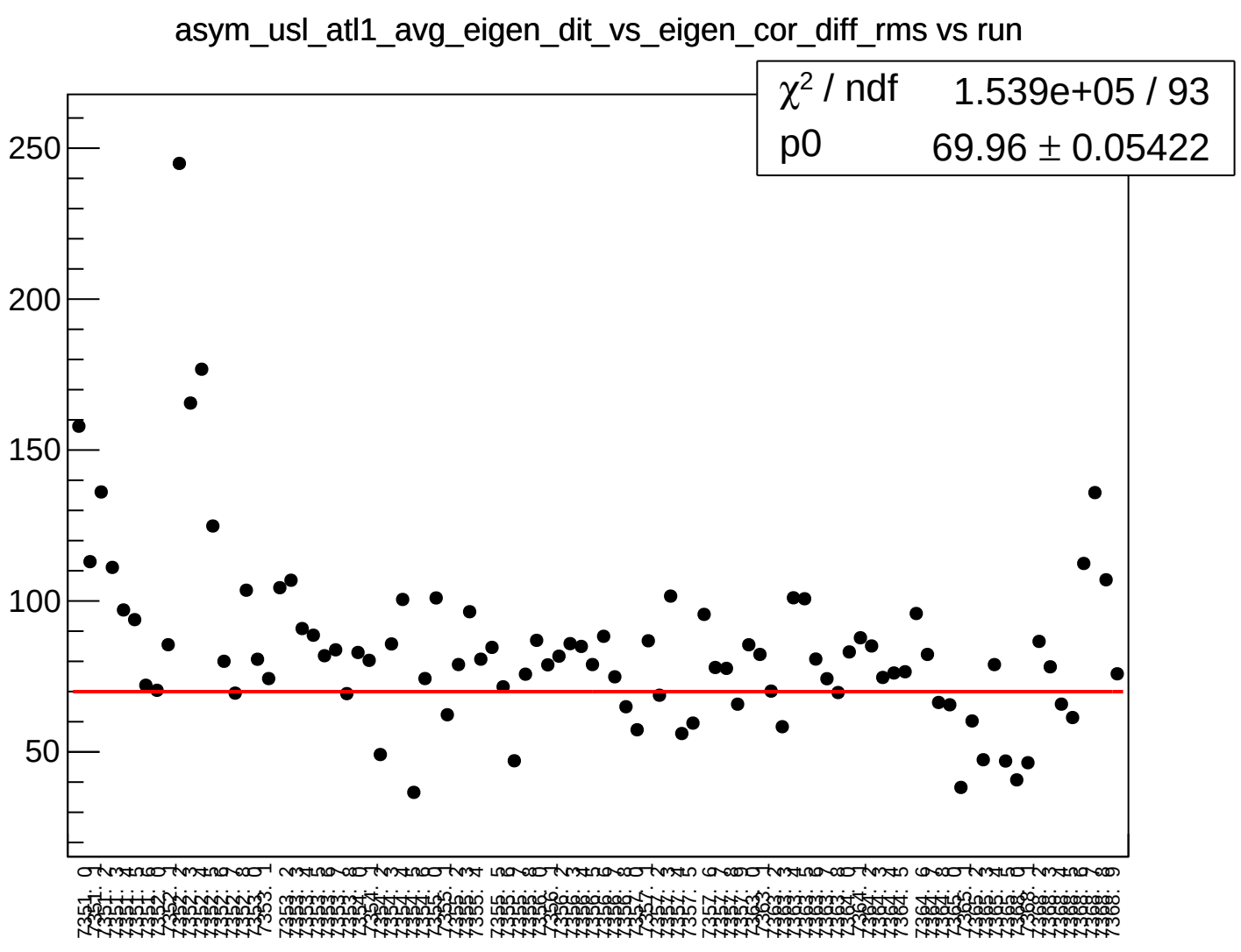

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 102.1 / 93
p0 0.03241 ± 0.07669
pull
Entries 94
Mean 12.88
Std Dev 52.79

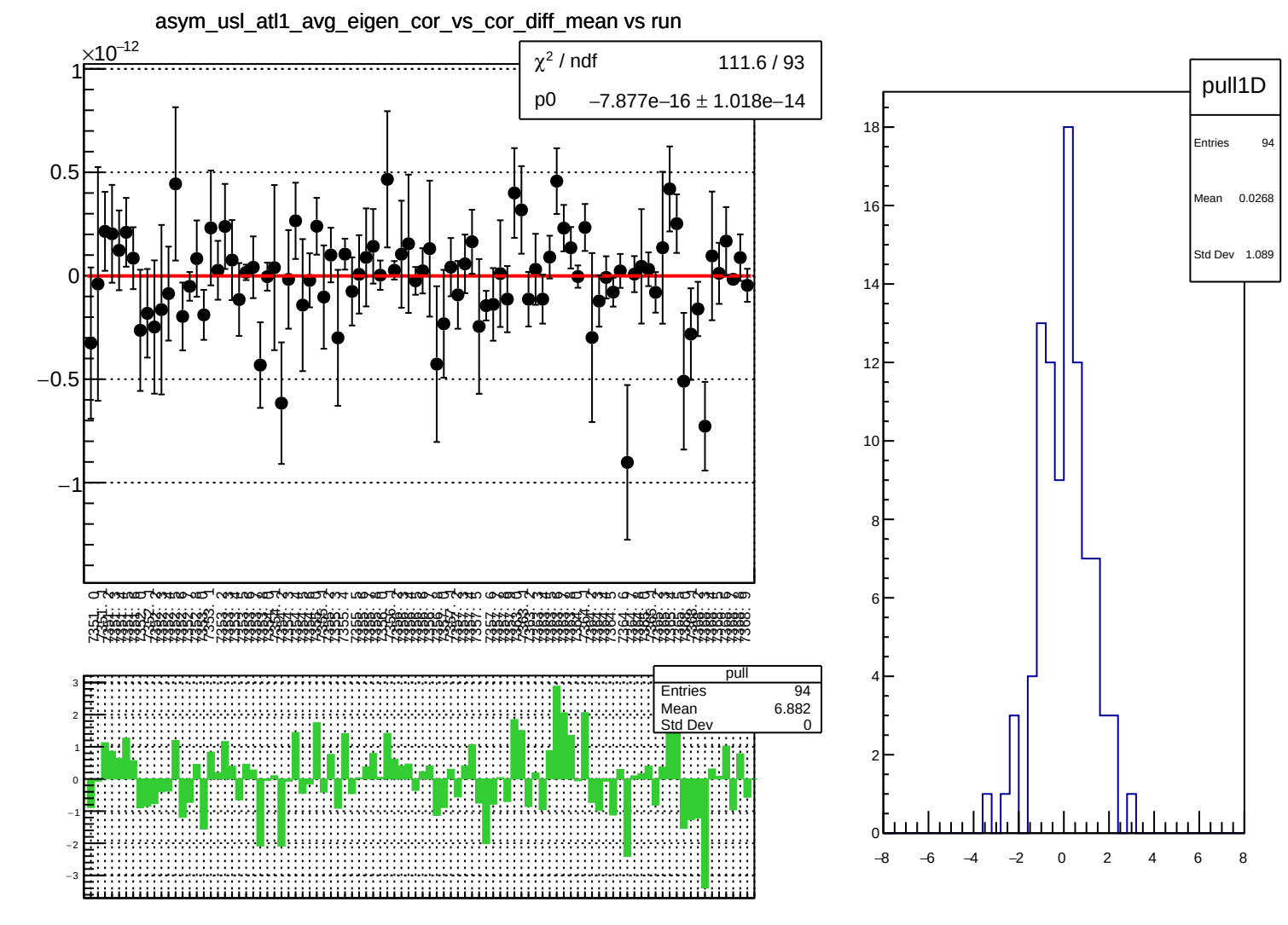

pull1D
Entries 94
Mean −0.02694
Std Dev 1.042

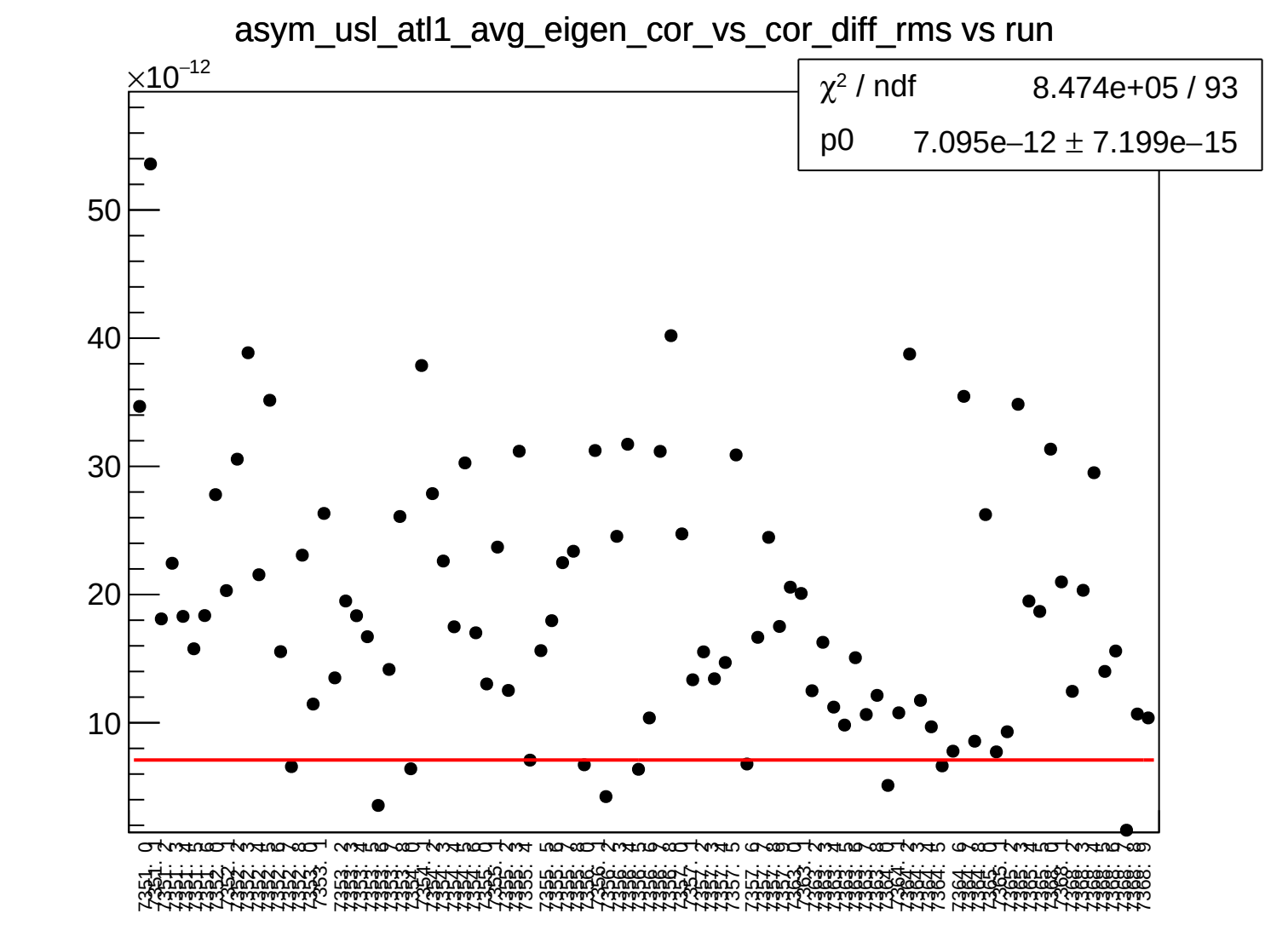

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.539e+05 / 93
p0 69.96 ± 0.05422
250
200
150
100
50

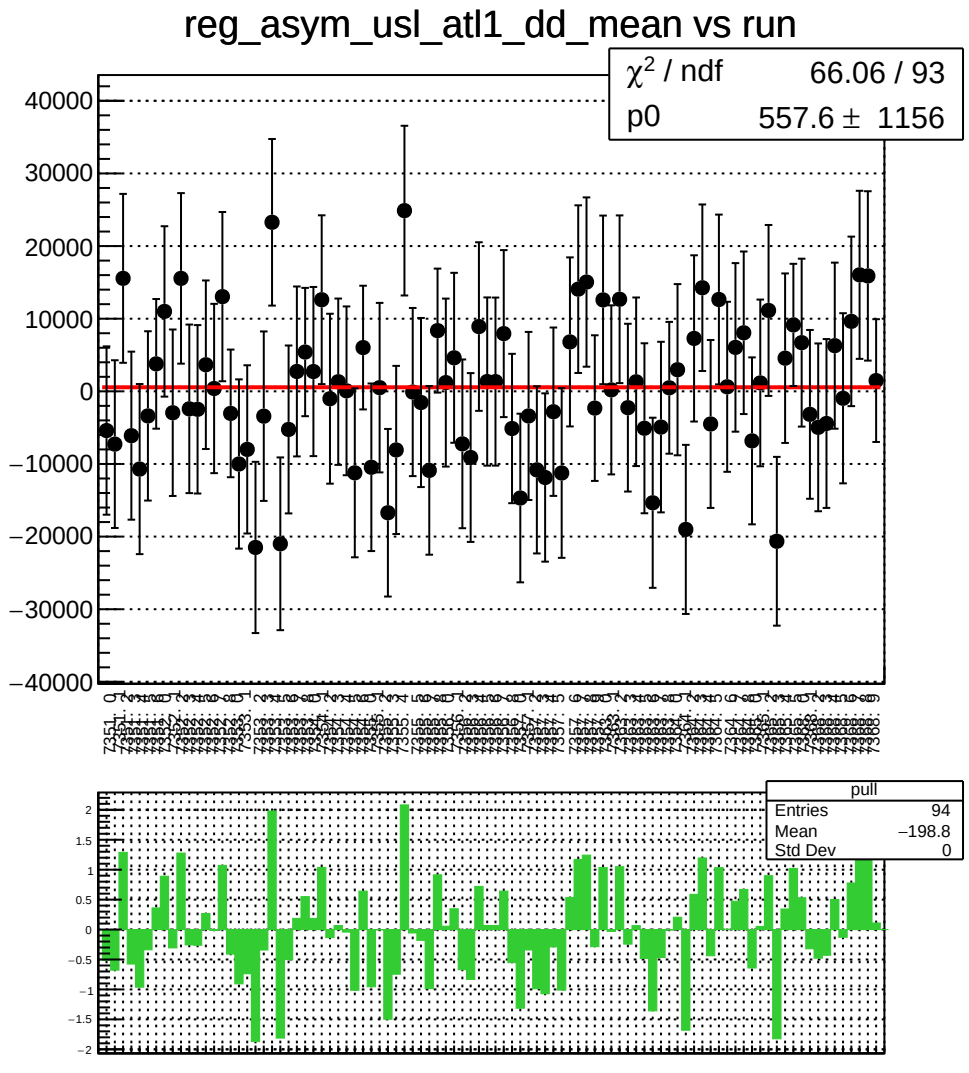

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.1 / 93
p0 0.03241 ± 0.07669
pull
Entries 94
Mean 12.88
Std Dev 52.79

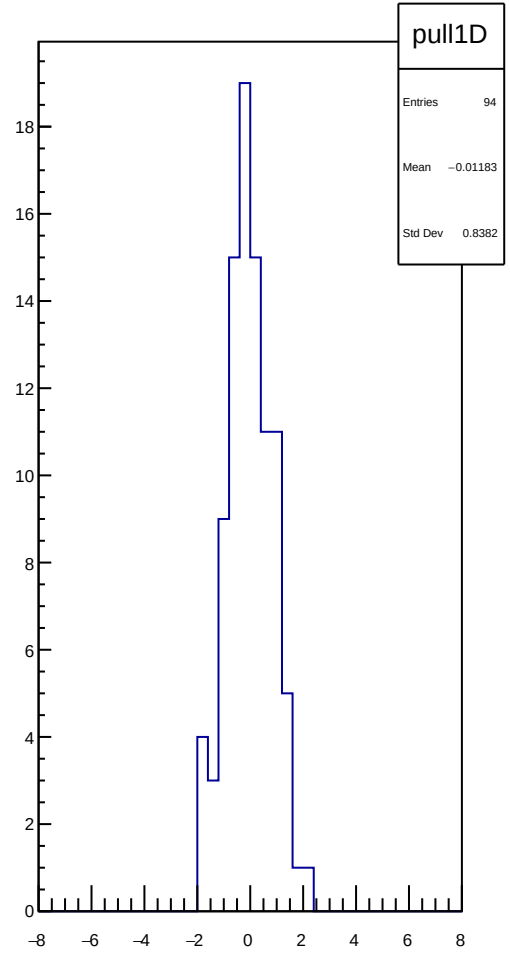

pull1D
Entries 94
Mean −0.02694
Std Dev 1.042

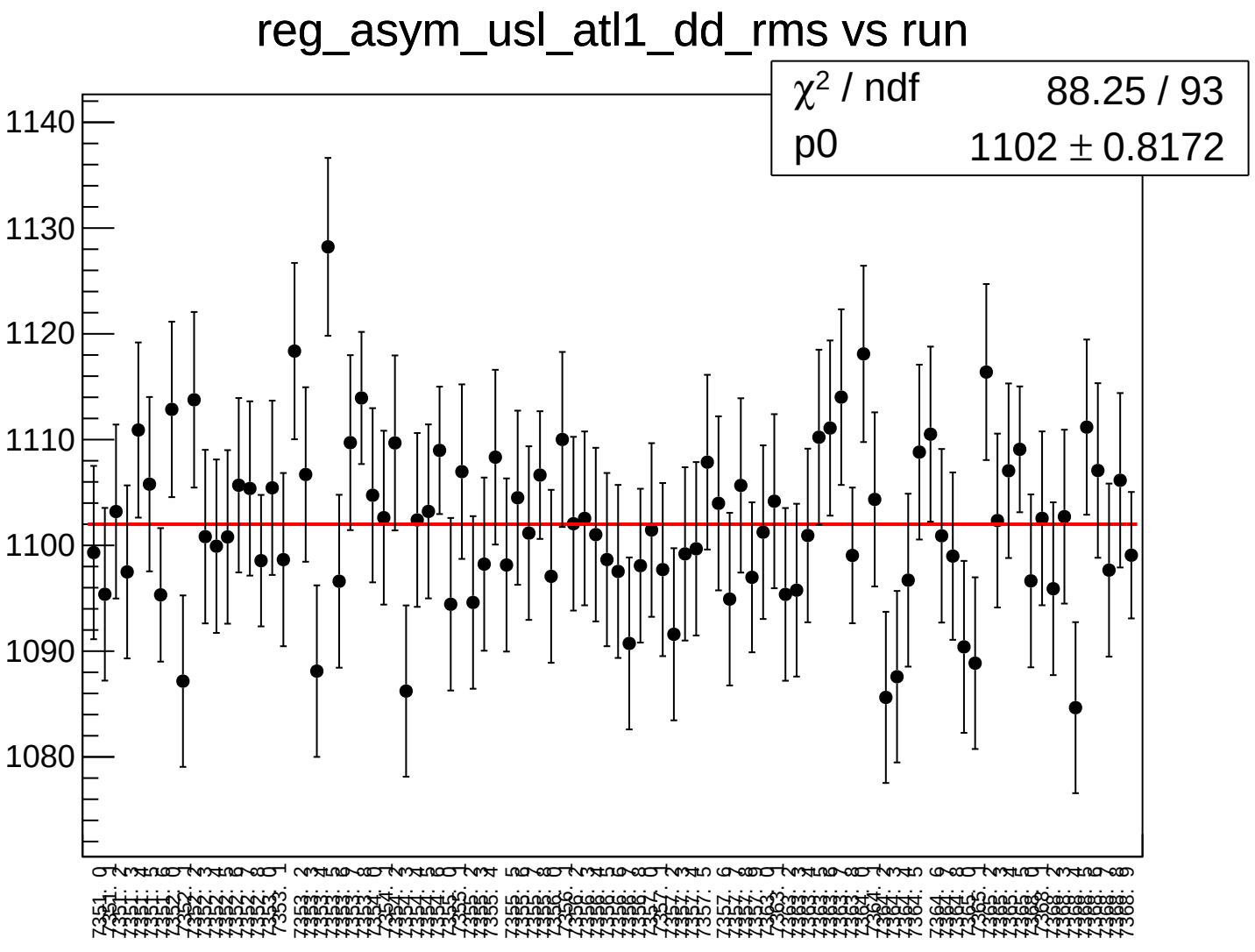

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.539e+05 / 93
p0 69.96 ± 0.05422
250
200
150
100
50

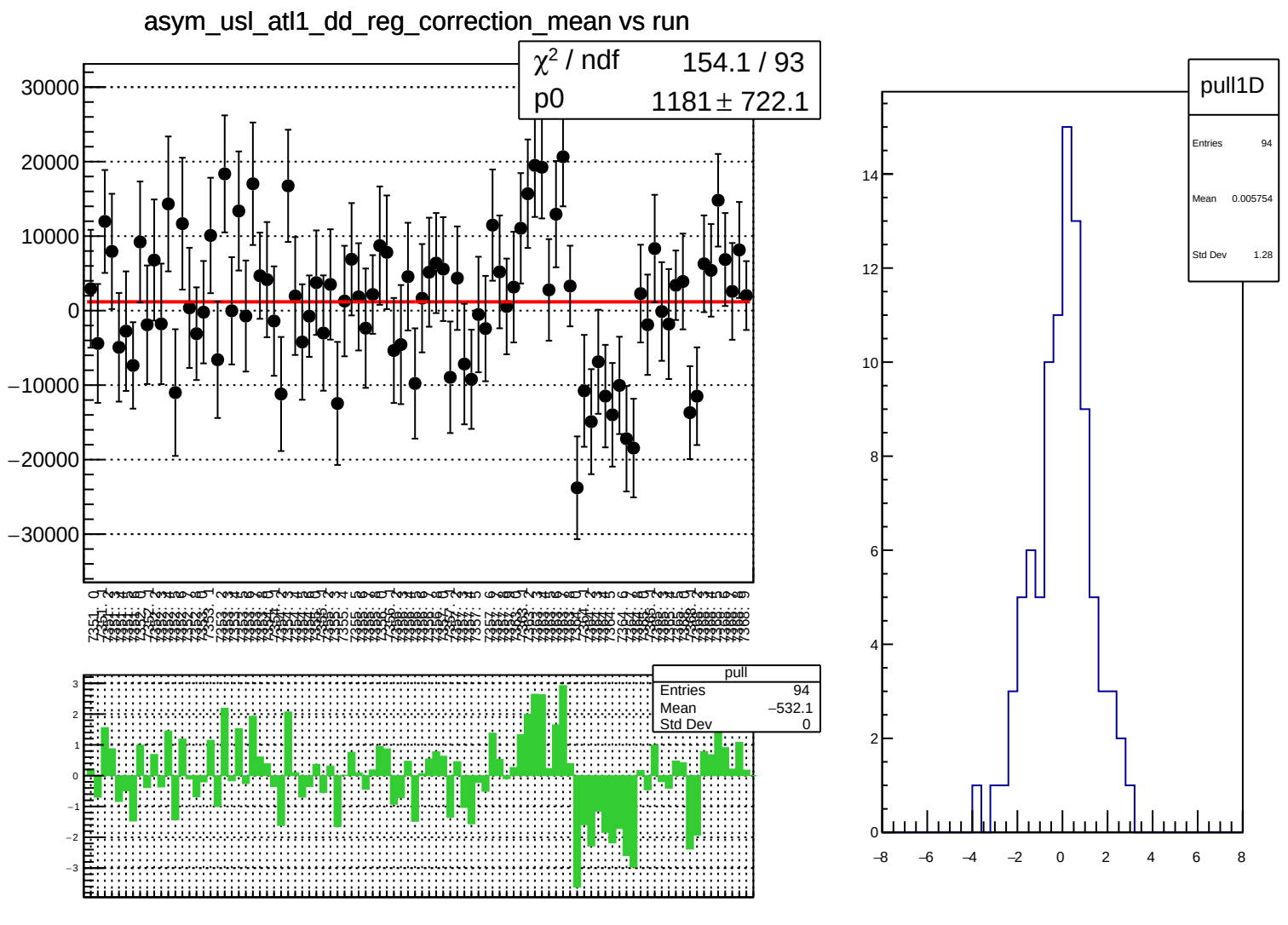

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 111.6 / 93
p0 −7.877e−16 ± 1.018e−14
pull
Entries 94
Mean 6.882
Std Dev 0
pull1D
Entries 94
Mean 0.0268
Std Dev 1.089

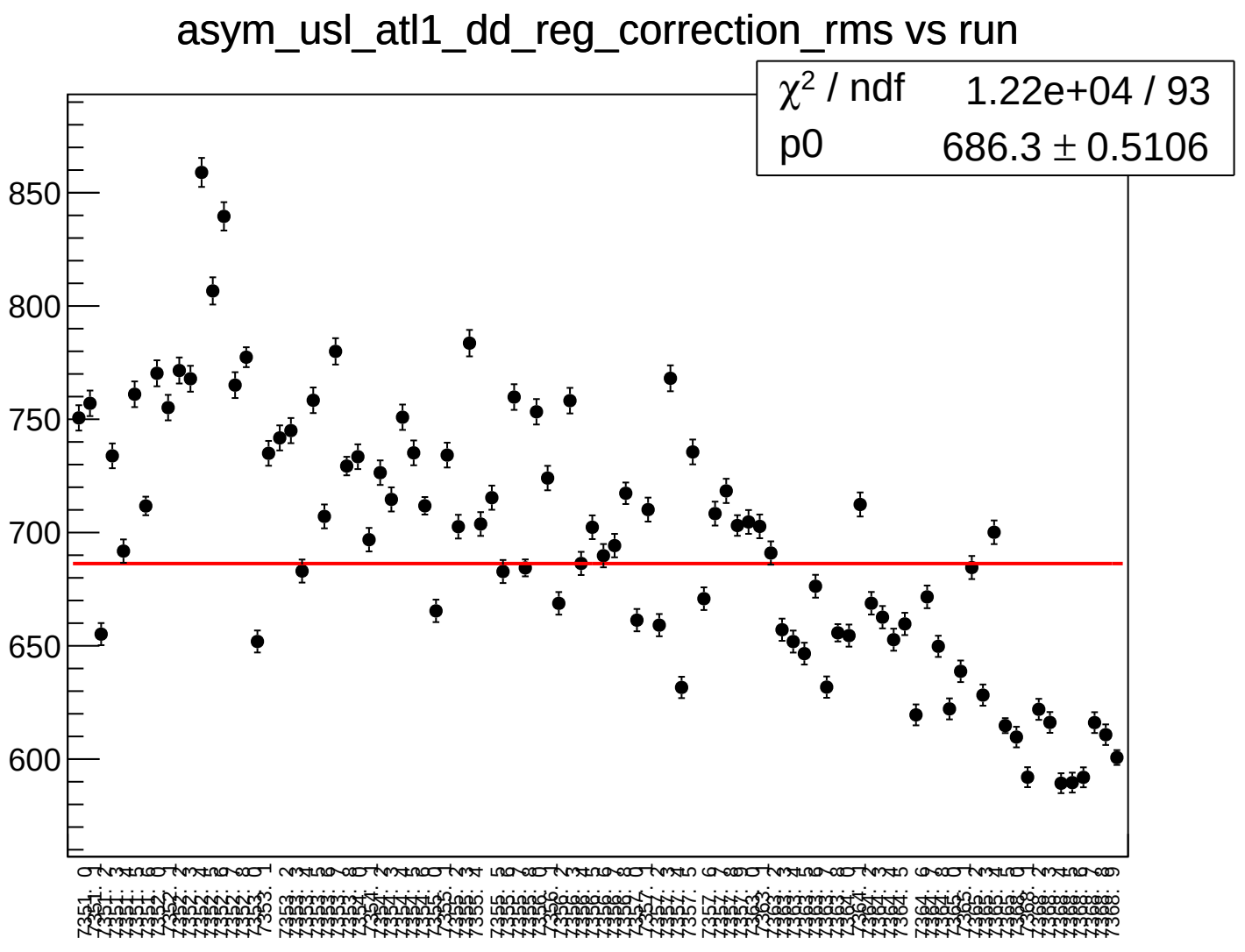

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 8.474e+05 / 93
p0 7.095e−12 ± 7.199e−15
50
40
30
20
10

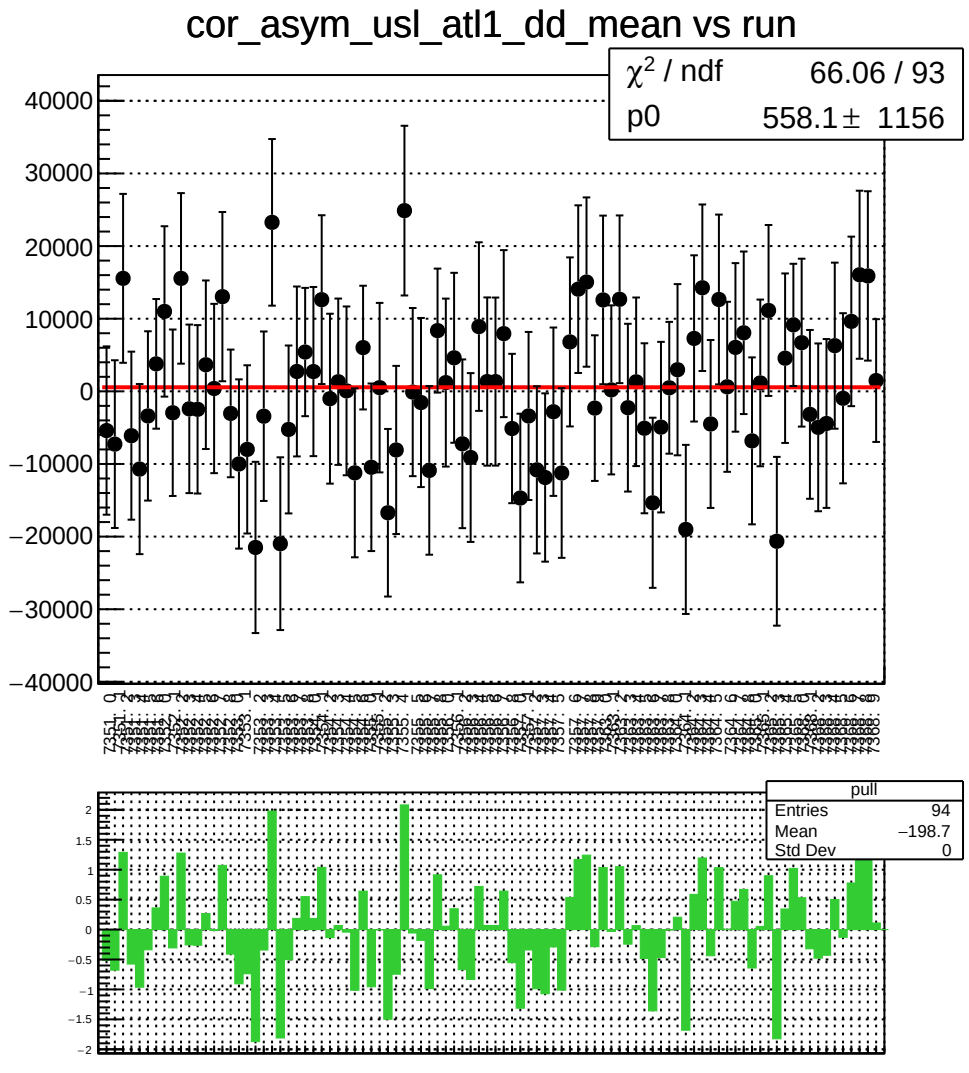

reg_asym_usl_atl1_dd_mean vs run
χ² / ndf 66.06 / 93
p0 557.6 ± 1156
pull
Entries 94
Mean −198.8
Std Dev 0

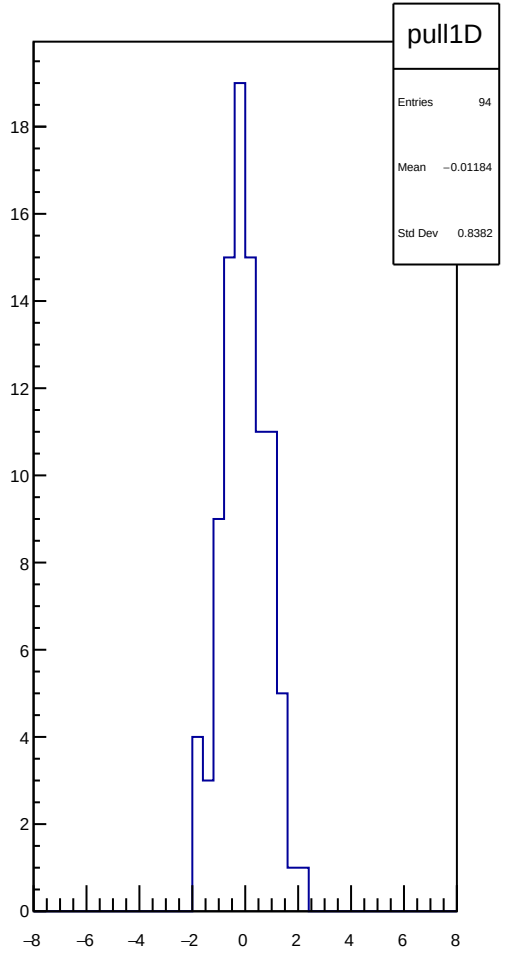

pull1D
Entries 94
Mean −0.01183
Std Dev 0.8382

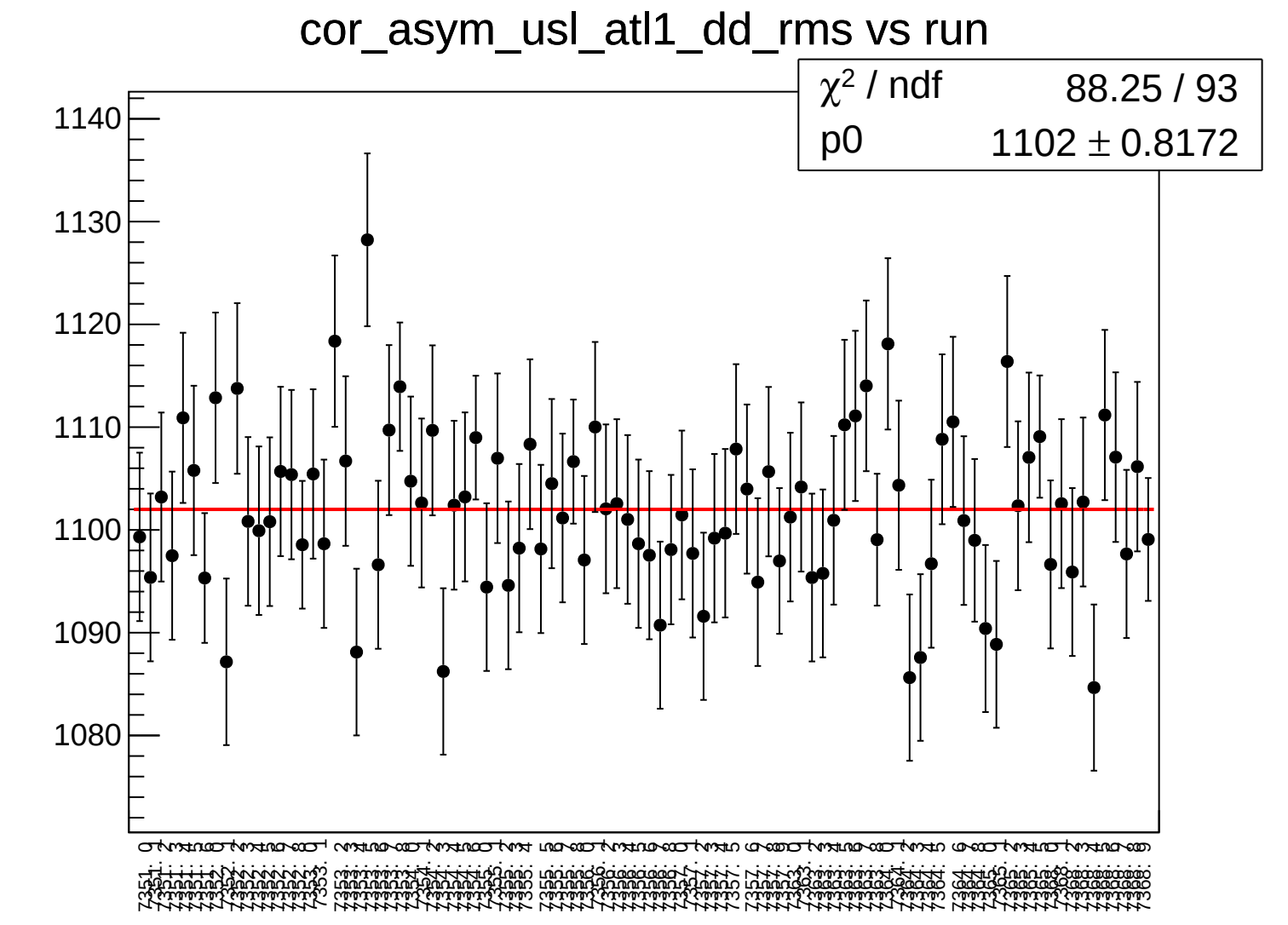

reg_asym_usl_atl1_dd_rms vs run
χ^2 / ndf 88.25 / 93
p0 1102 ± 0.8172
1140
1130
1120
1110
1100
1090
1080

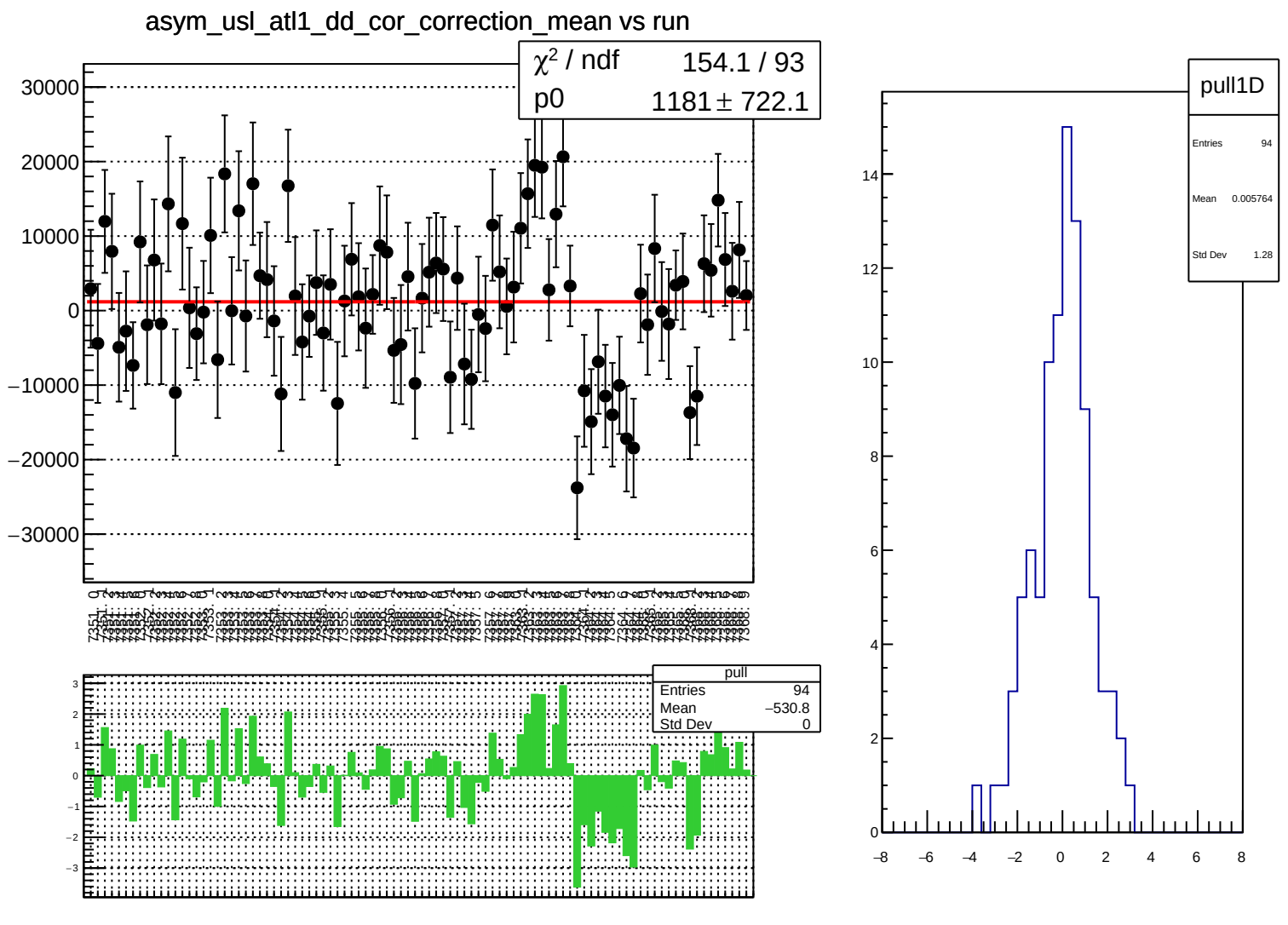

asym_usl_atl1_dd_reg_correction_mean vs run
χ² / ndf 154.1 / 93
p0 1181 ± 722.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −532.1
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.005754
Std Dev 1.28
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

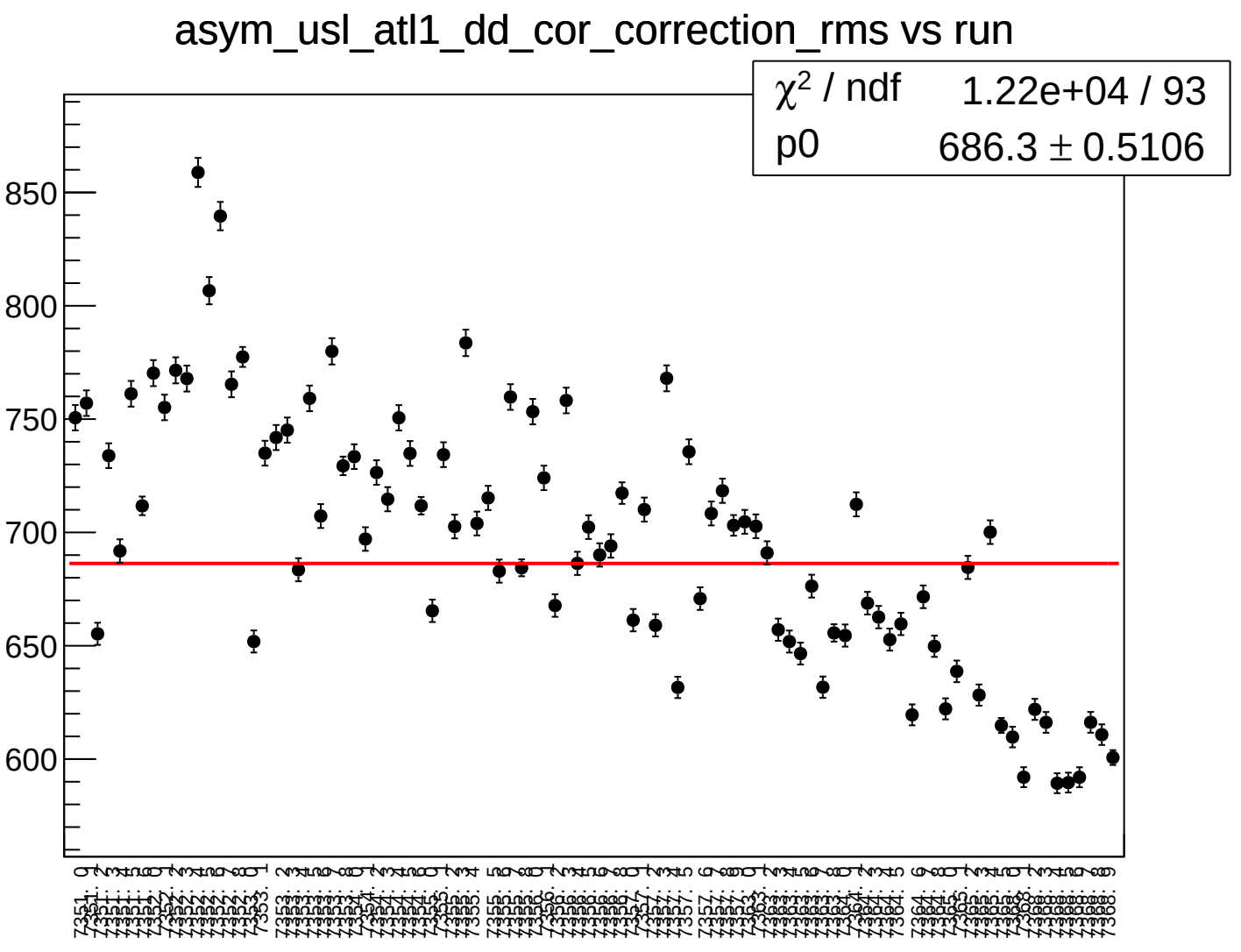

asym_usl_atl1_dd_reg_correction_rms vs run
χ² / ndf 1.22e+04 / 93
p0 686.3 ± 0.5106
850
800
750
700
650
600

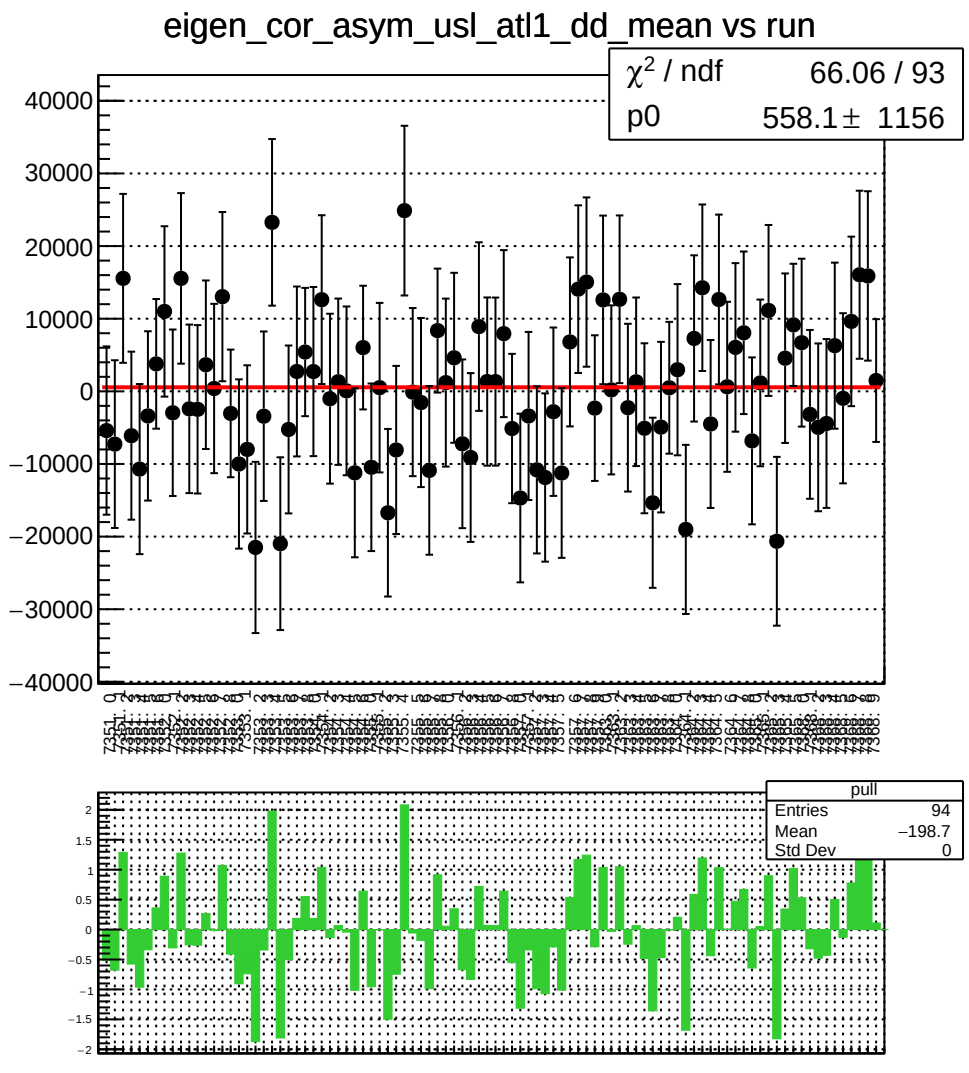

cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 66.06 / 93
p0 558.1 ± 1156
pull
Entries 94
Mean −198.7
Std Dev 0

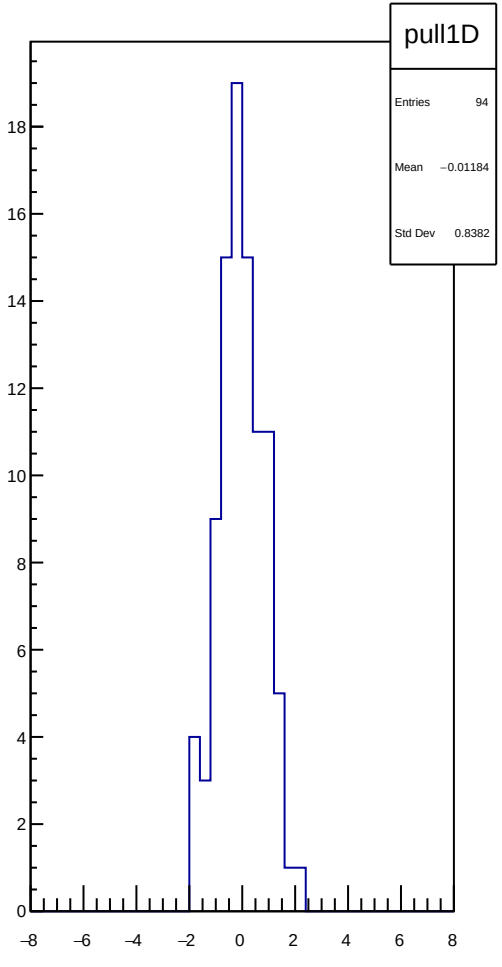

pull1D
Entries 94
Mean −0.01184
Std Dev 0.8382

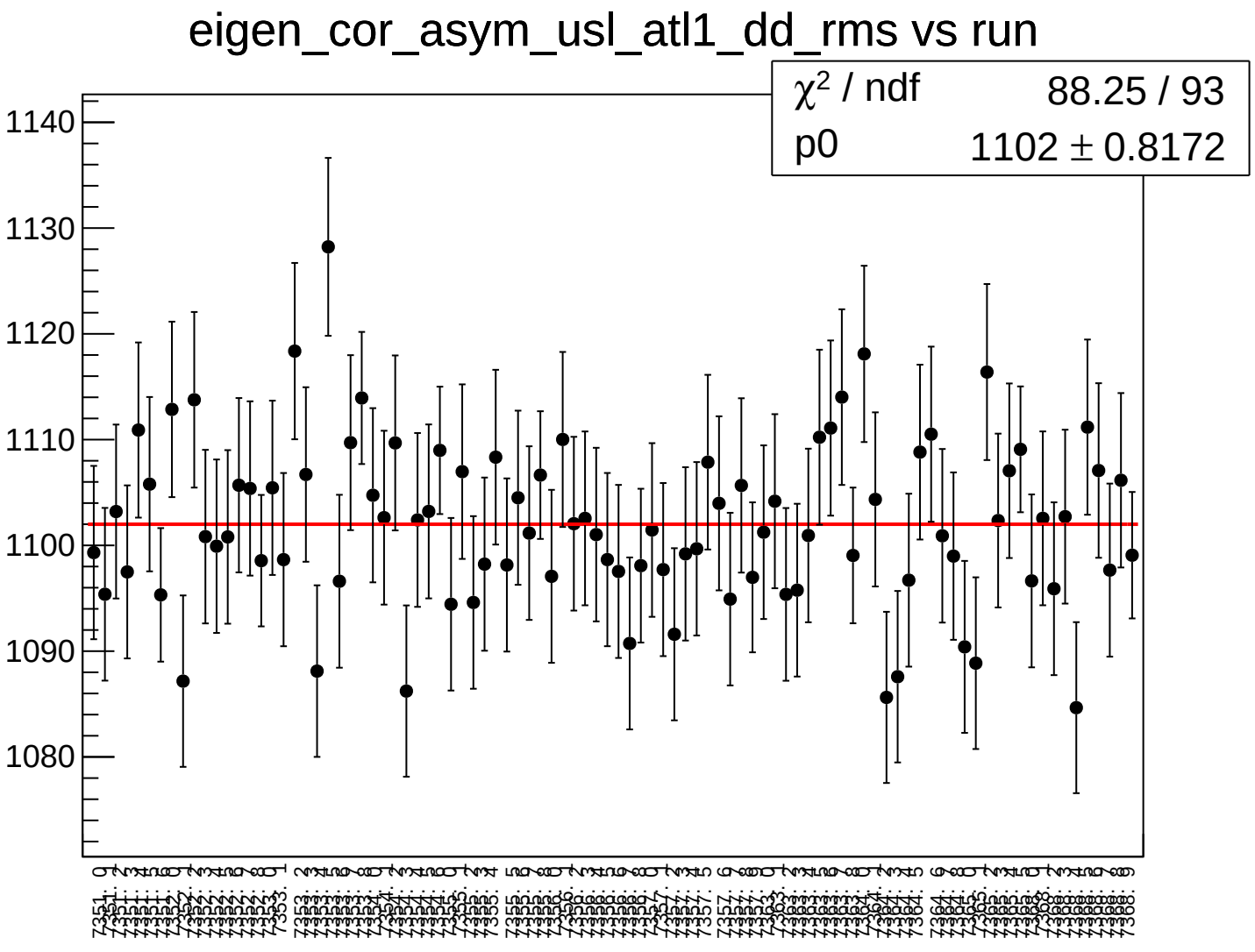

cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 88.25 / 93
p0 1102 ± 0.8172
1140
1130
1120
1110
1100
1090
1080

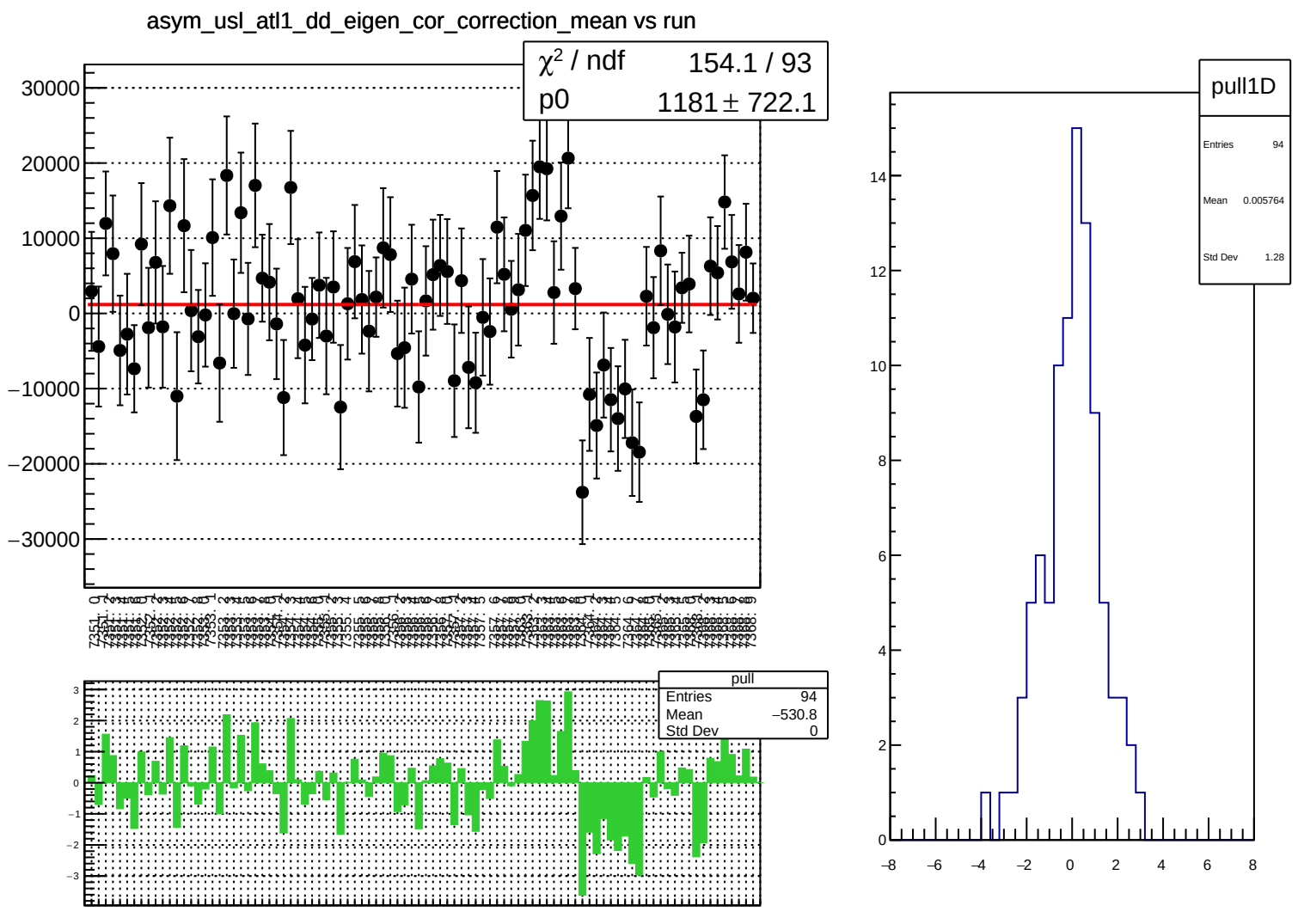

asym_usl_atl1_dd_cor_correction_mean vs run
χ² / ndf 154.1 / 93
p0 1181 ± 722.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −530.8
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.005764
Std Dev 1.28
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

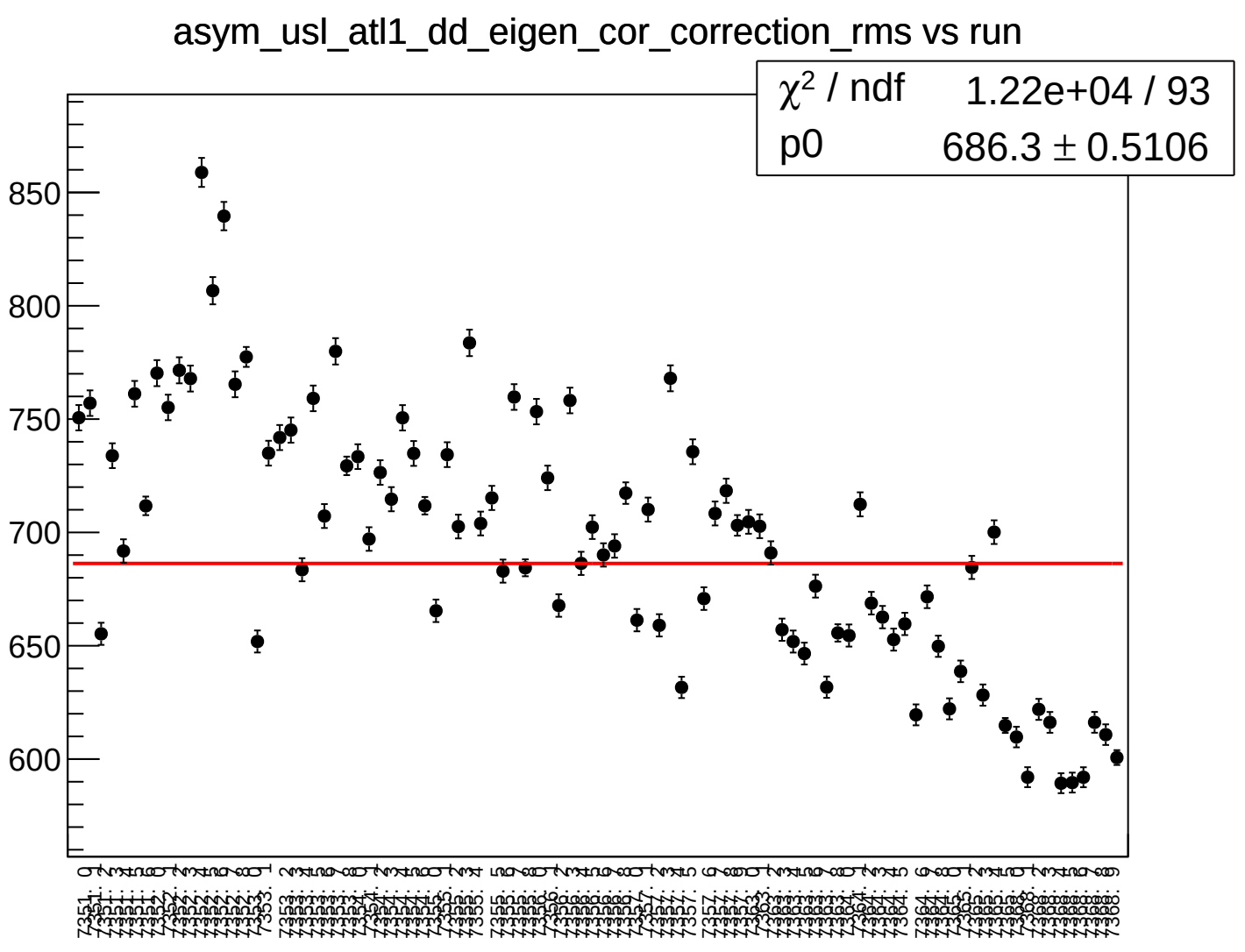

asym_usl_atl1_dd_cor_correction_rms vs run
χ² / ndf 1.22e+04 / 93
p0 686.3 ± 0.5106
850
800
750
700
650
600

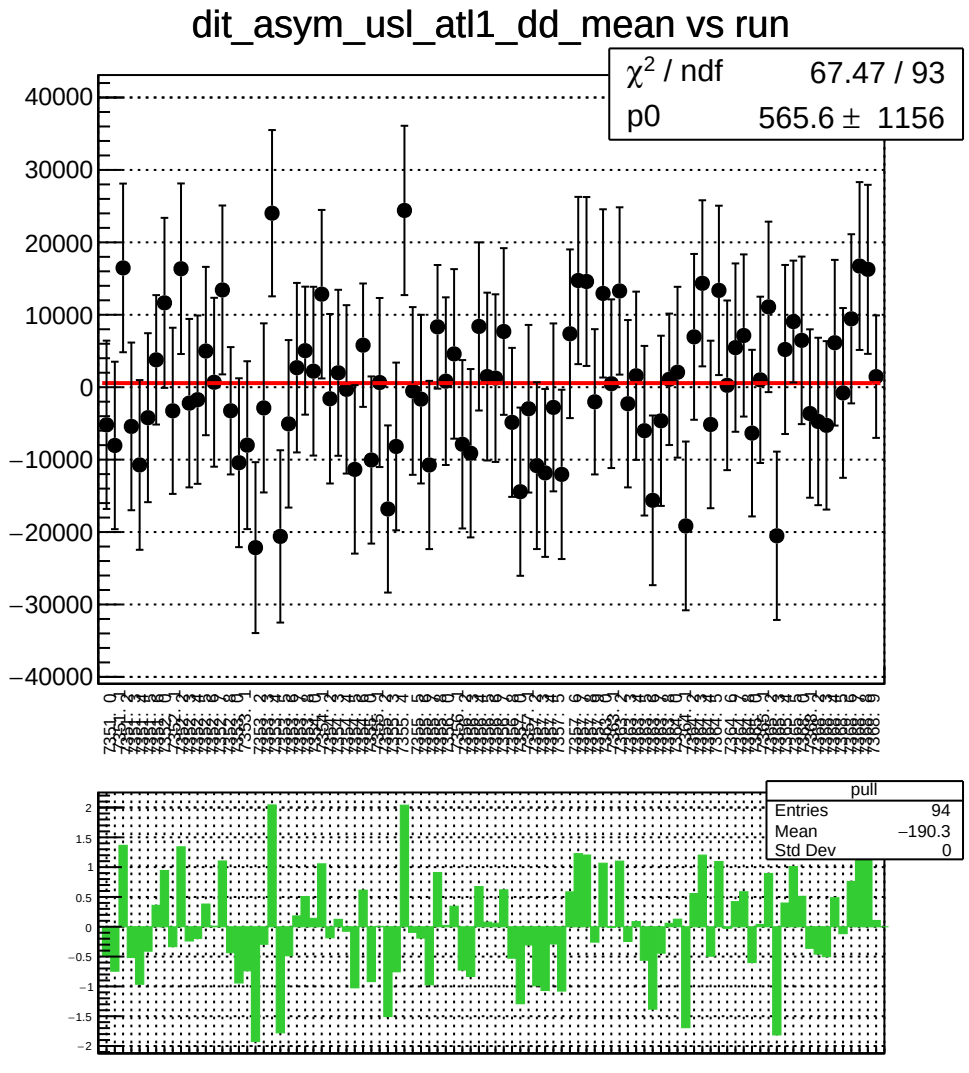

eigen_cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 66.06 / 93
p0 558.1 ± 1156
pull
Entries 94
Mean −198.7
Std Dev 0

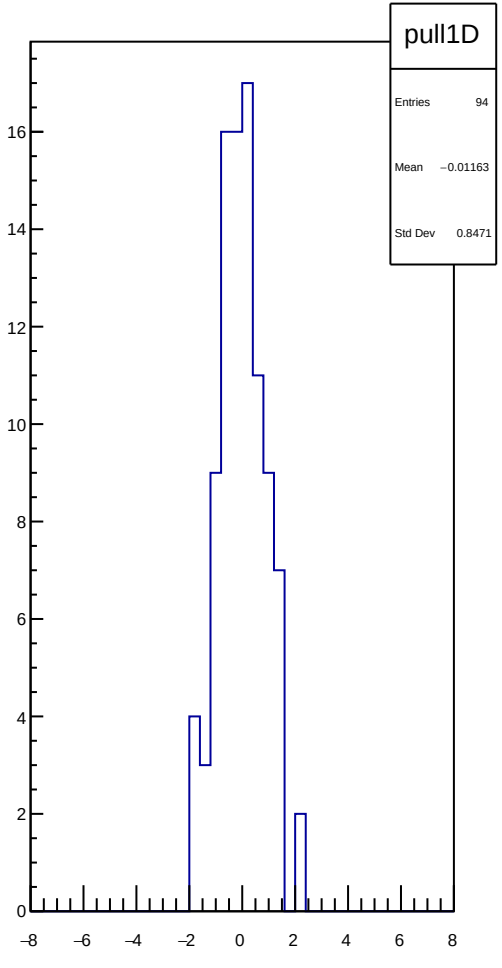

pull1D
Entries 94
Mean −0.01184
Std Dev 0.8382

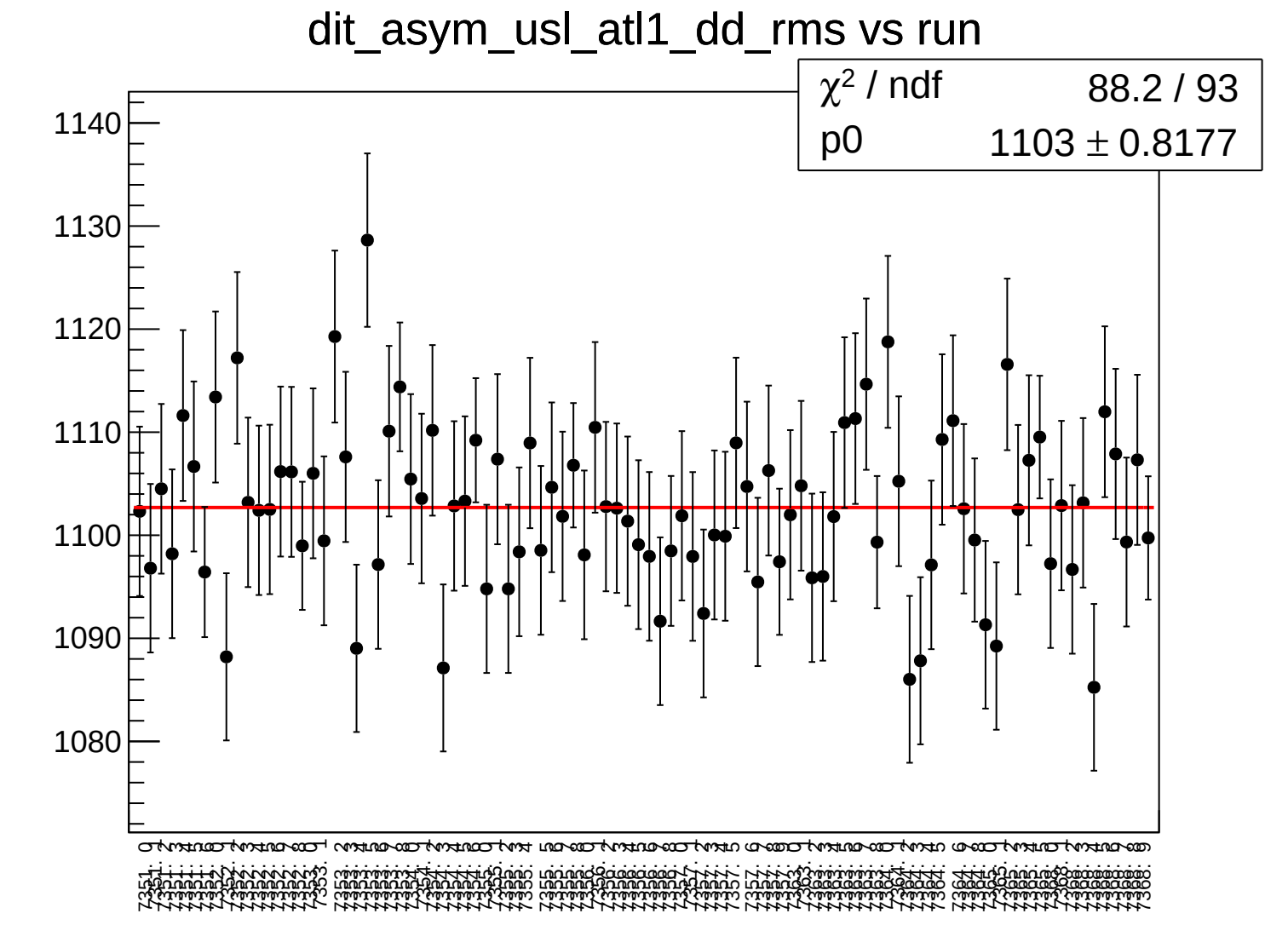

eigen_cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 88.25 / 93
p0 1102 ± 0.8172
1140
1130
1120
1110
1100
1090
1080

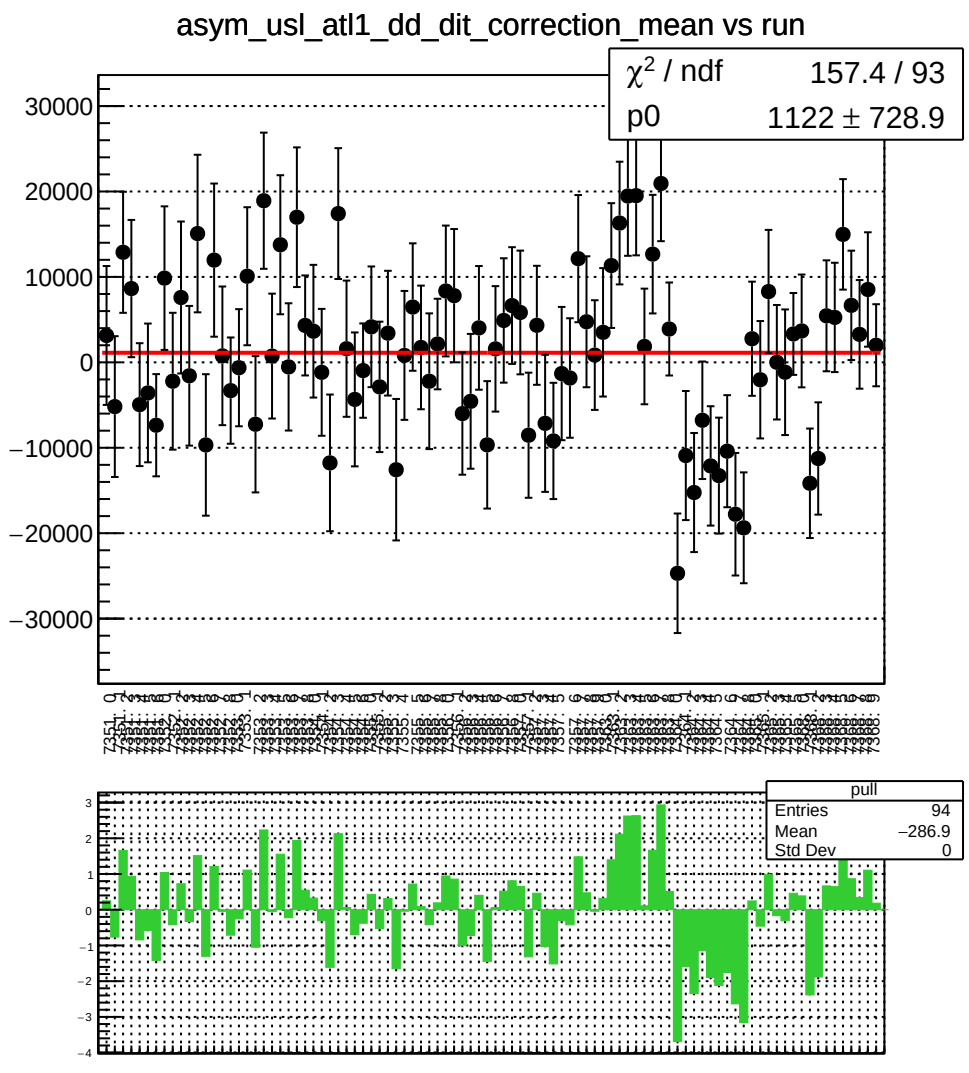

asym_usl_atl1_dd_eigen_cor_correction_mean vs run
χ² / ndf 154.1 / 93
p0 1181 ± 722.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −530.8
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.005764
Std Dev 1.28
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

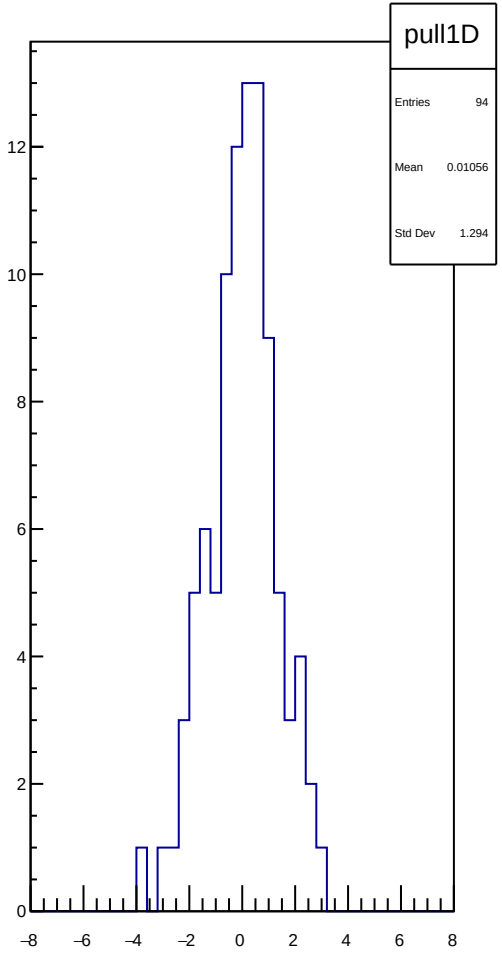

asym_usl_atl1_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.22e+04 / 93
p0 686.3 ± 0.5106
850
800
750
700
650
600

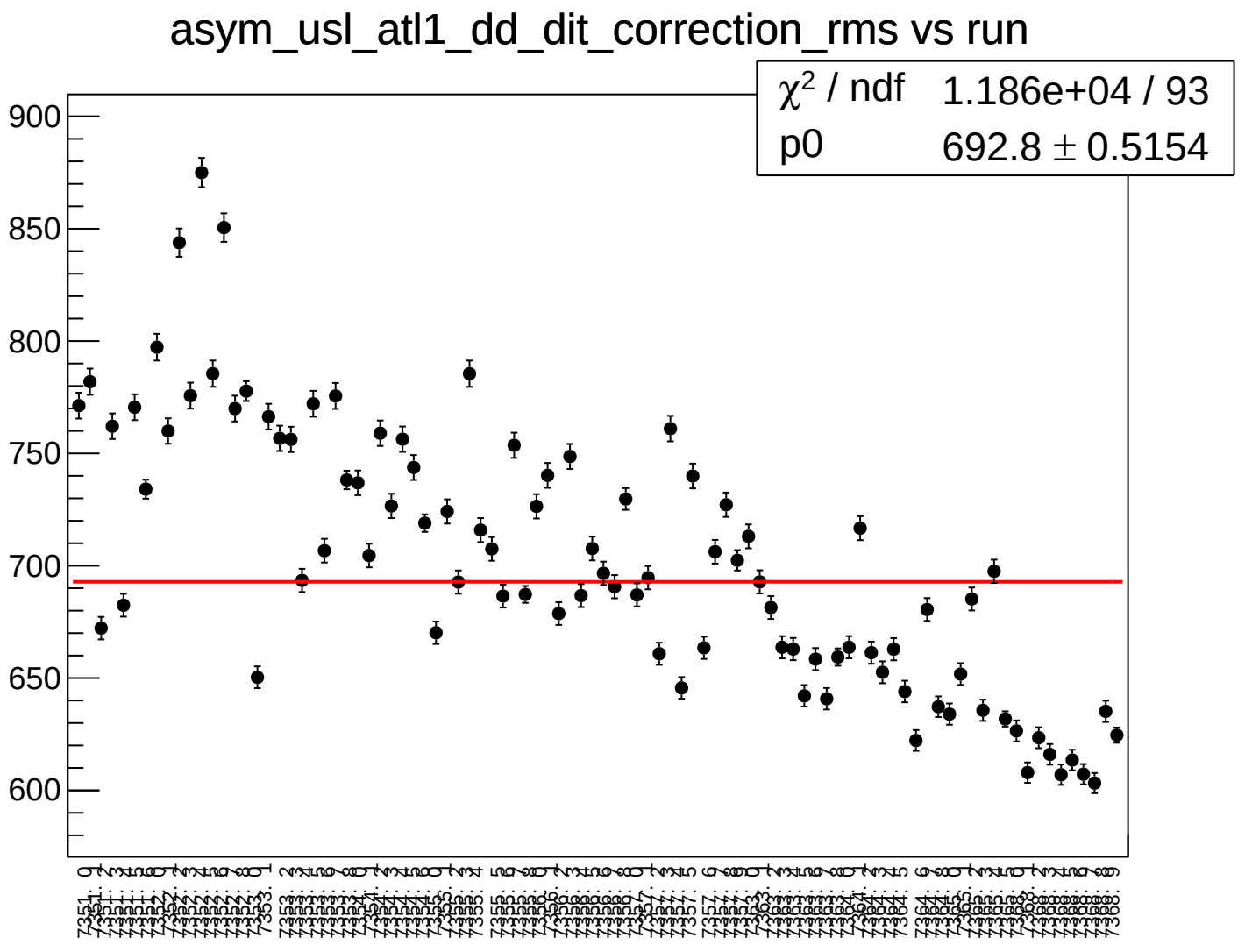

dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 67.47 / 93
p0 565.6 ± 1156
pull
Entries 94
Mean −190.3
Std Dev 0

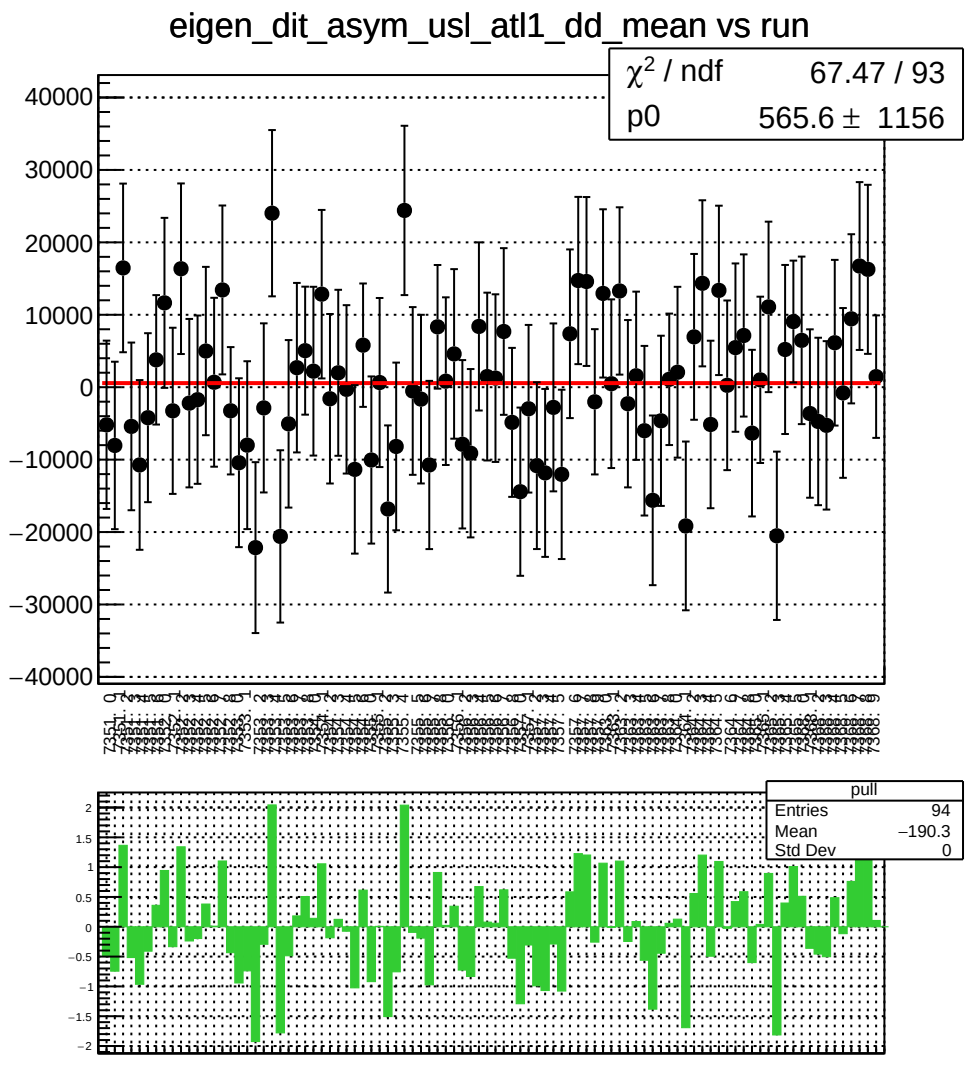

pull1D
Entries 94
Mean −0.01163
Std Dev 0.8471

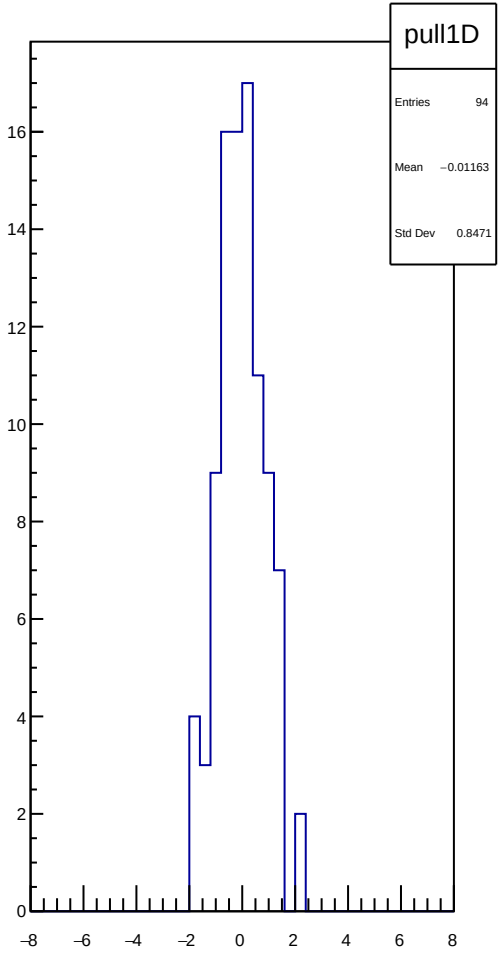

dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 88.2 / 93
p0 1103 ± 0.8177
1140
1130
1120
1110
1100
1090
1080

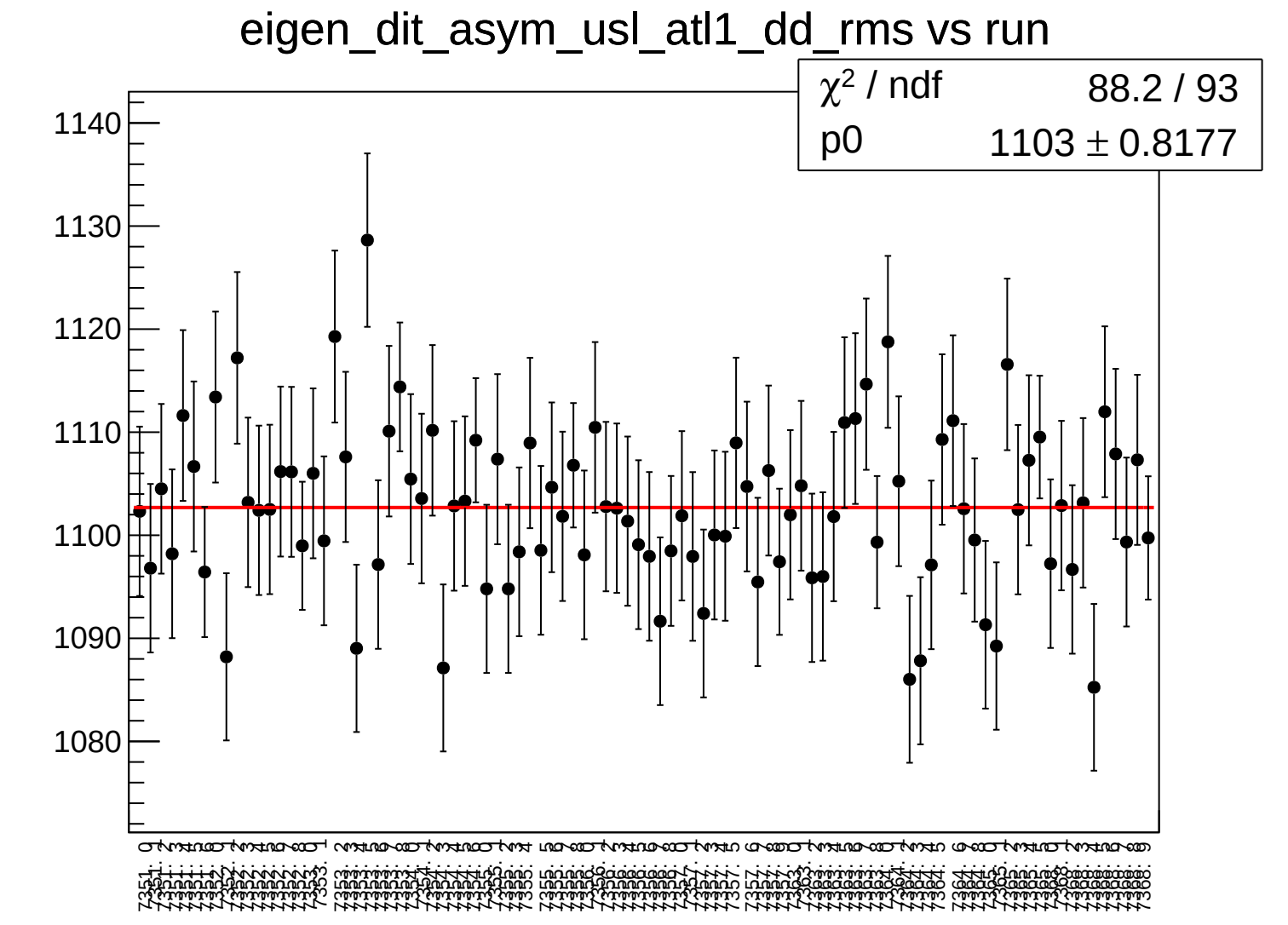

asym_usl_atl1_dd_dit_correction_mean vs run
χ² / ndf 157.4 / 93
p0 1122 ± 728.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −286.9
Std Dev 0
3
2
1
0
−1
−2
−3
−4

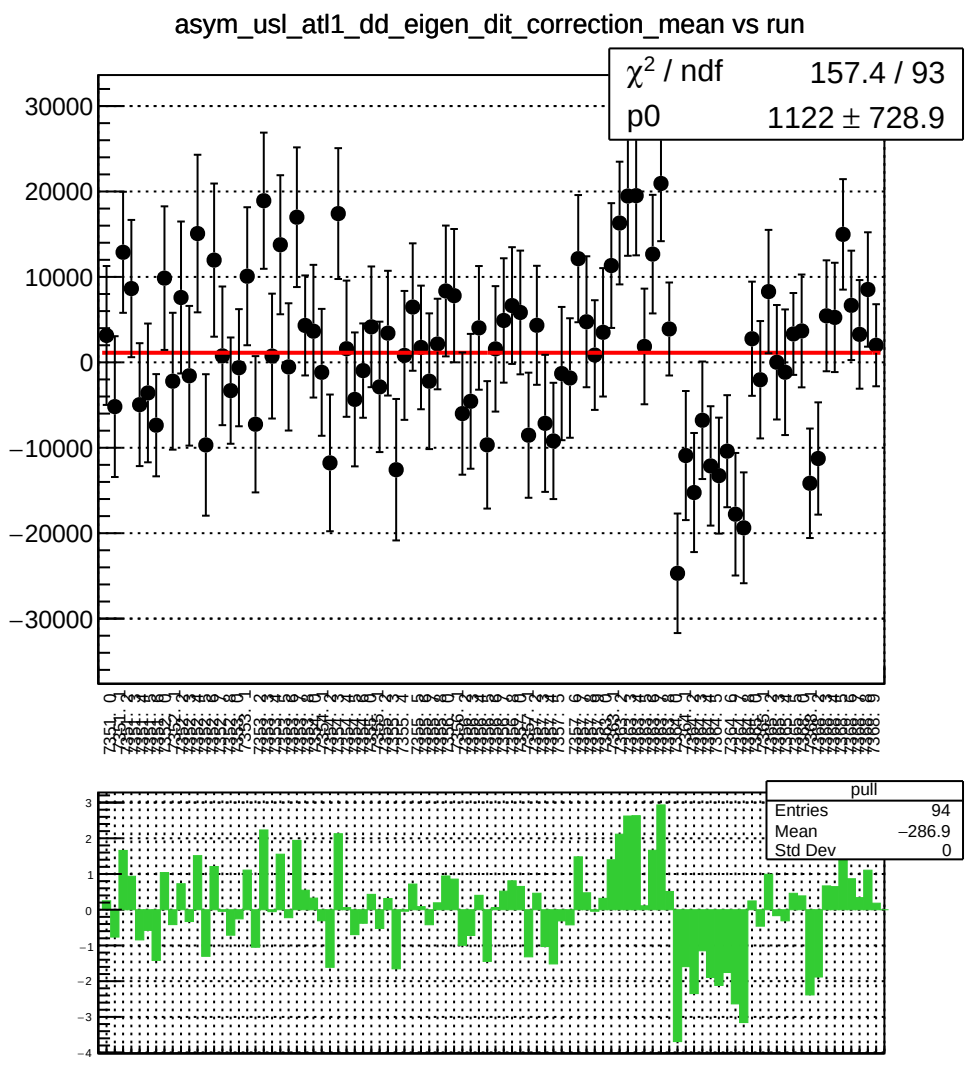

pull1D
Entries 94
Mean 0.01056
Std Dev 1.294
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

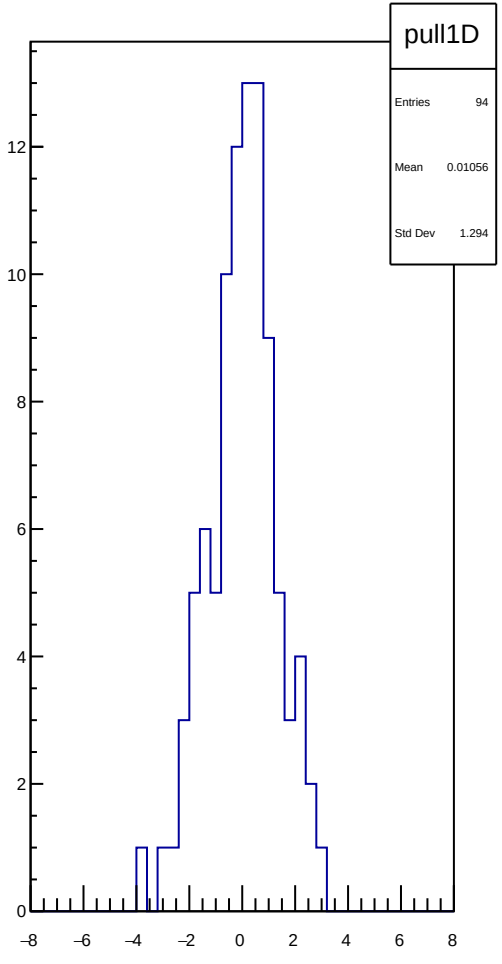

asym_usl_atl1_dd_dit_correction_rms vs run
χ² / ndf 1.186e+04 / 93
p0 692.8 ± 0.5154
900
850
800
750
700
650
600

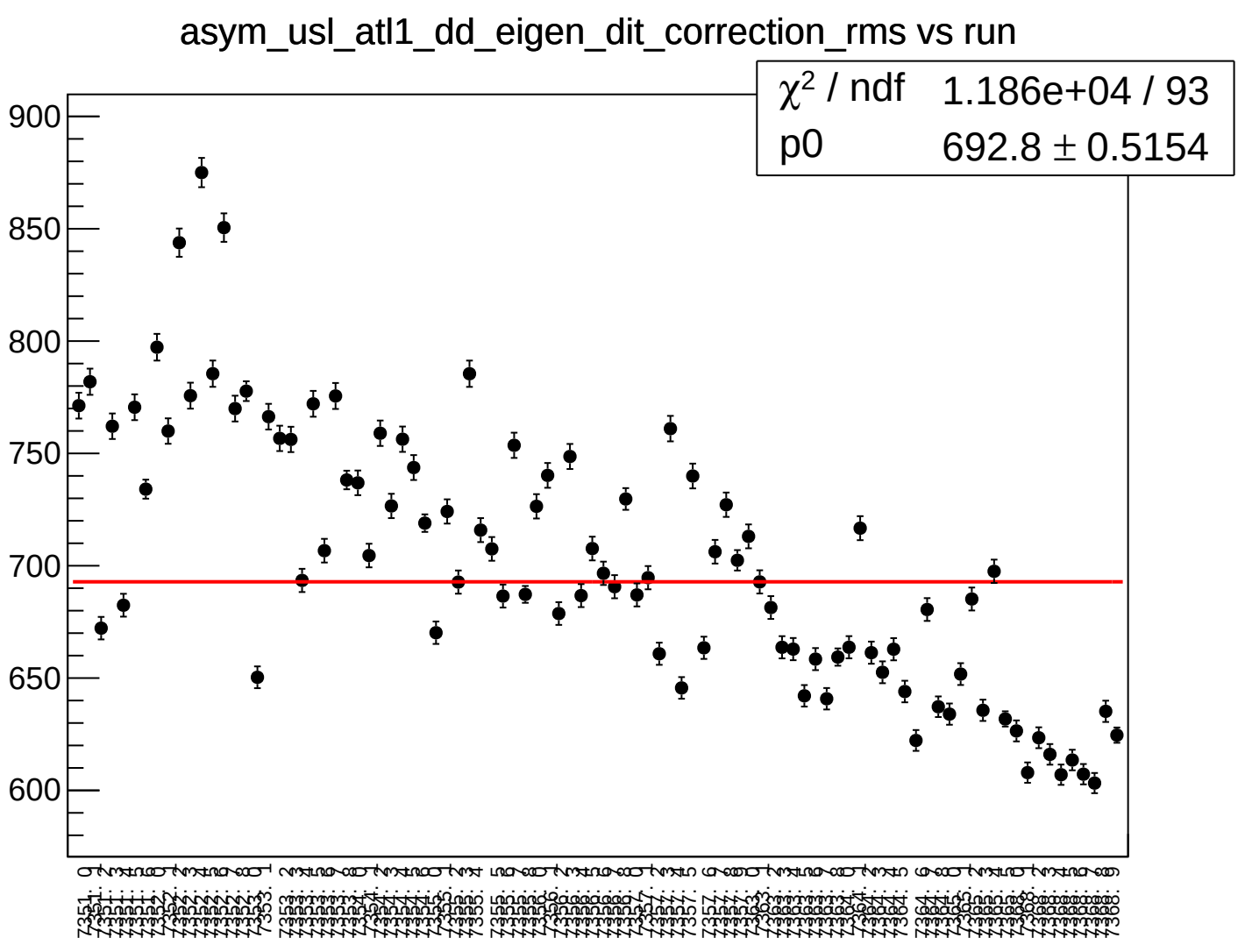

eigen_dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 67.47 / 93
p0 565.6 ± 1156
pull
Entries 94
Mean −190.3
Std Dev 0

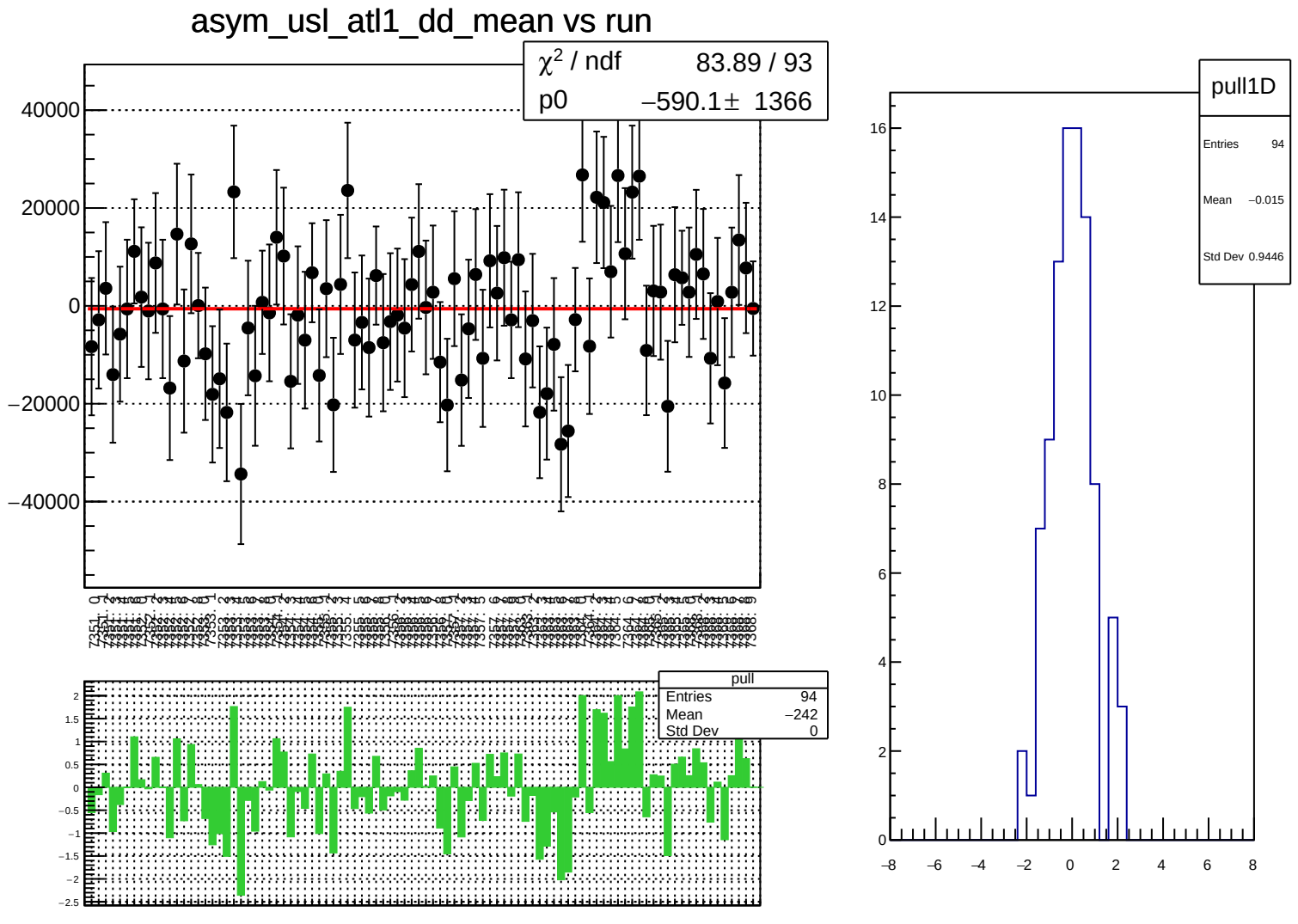

pull1D
Entries 94
Mean −0.01163
Std Dev 0.8471

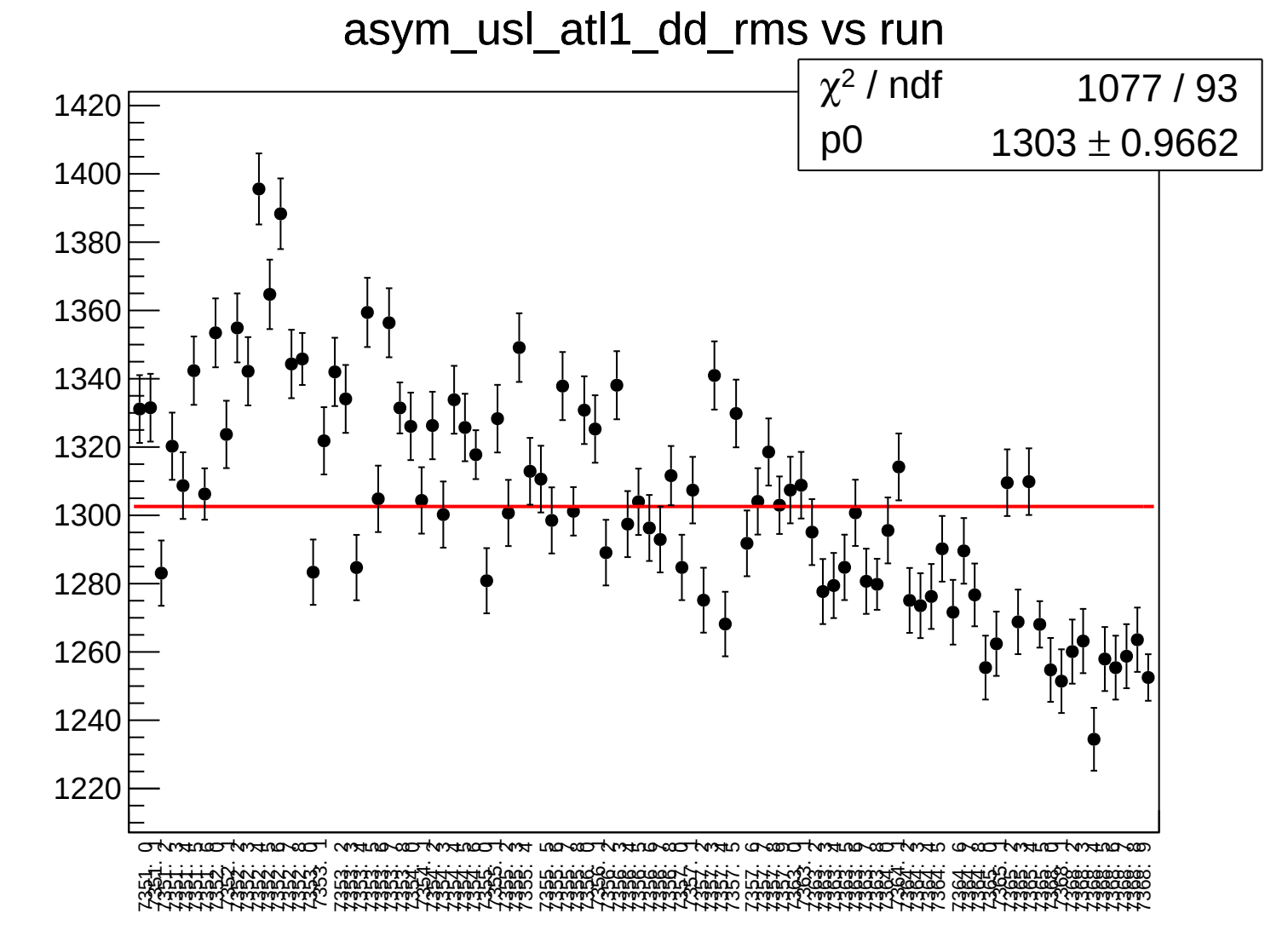

eigen_dit_asym_usl_atl1_dd_rms vs run
χ^2 / ndf 88.2 / 93
p0 1103 ± 0.8177
1140
1130
1120
1110
1100
1090
1080

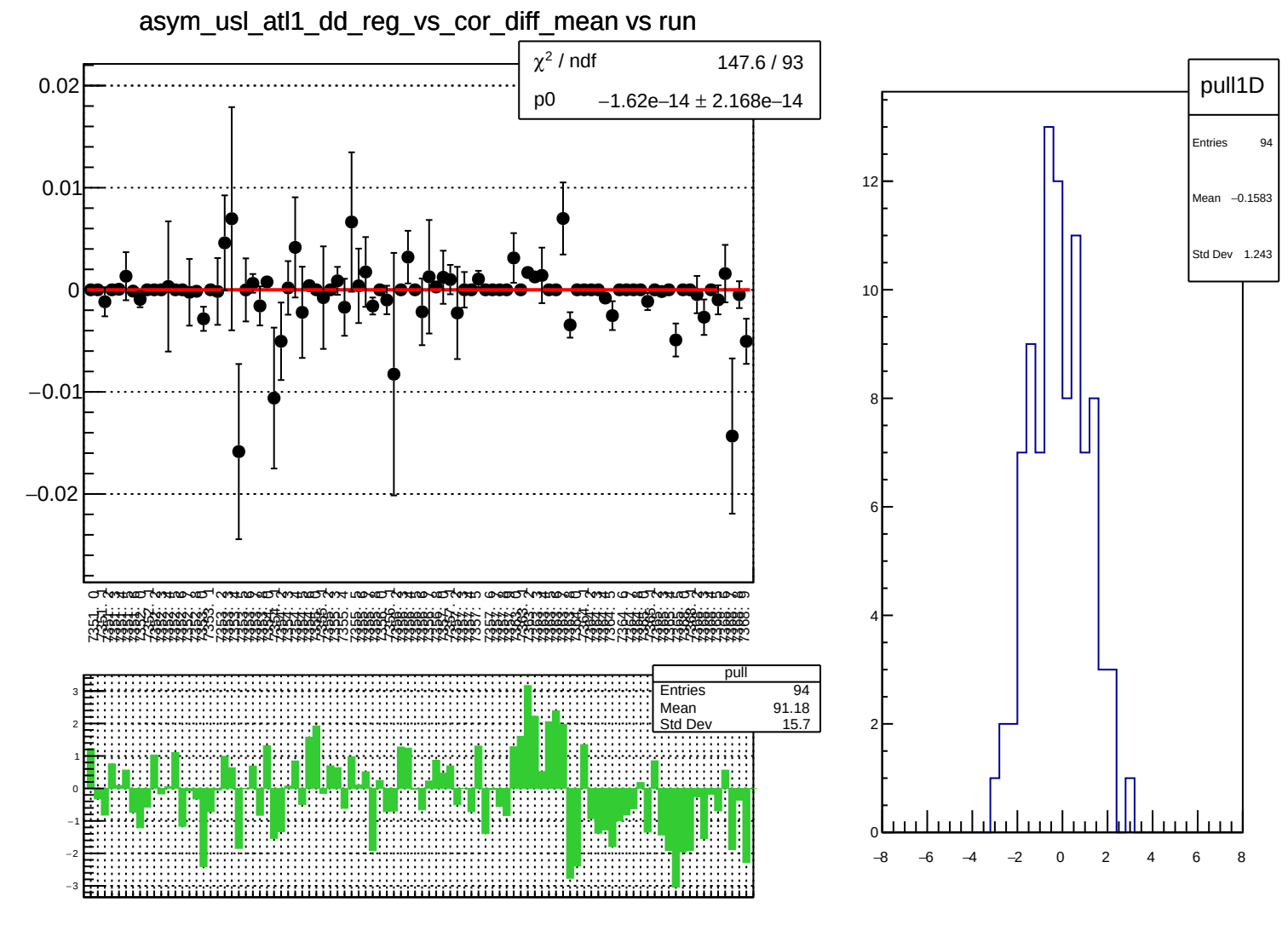

asym_usl_atl1_dd_eigen_dit_correction_mean vs run
χ² / ndf 157.4 / 93
p0 1122 ± 728.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −286.9
Std Dev 0
3
2
1
0
−1
−2
−3
−4

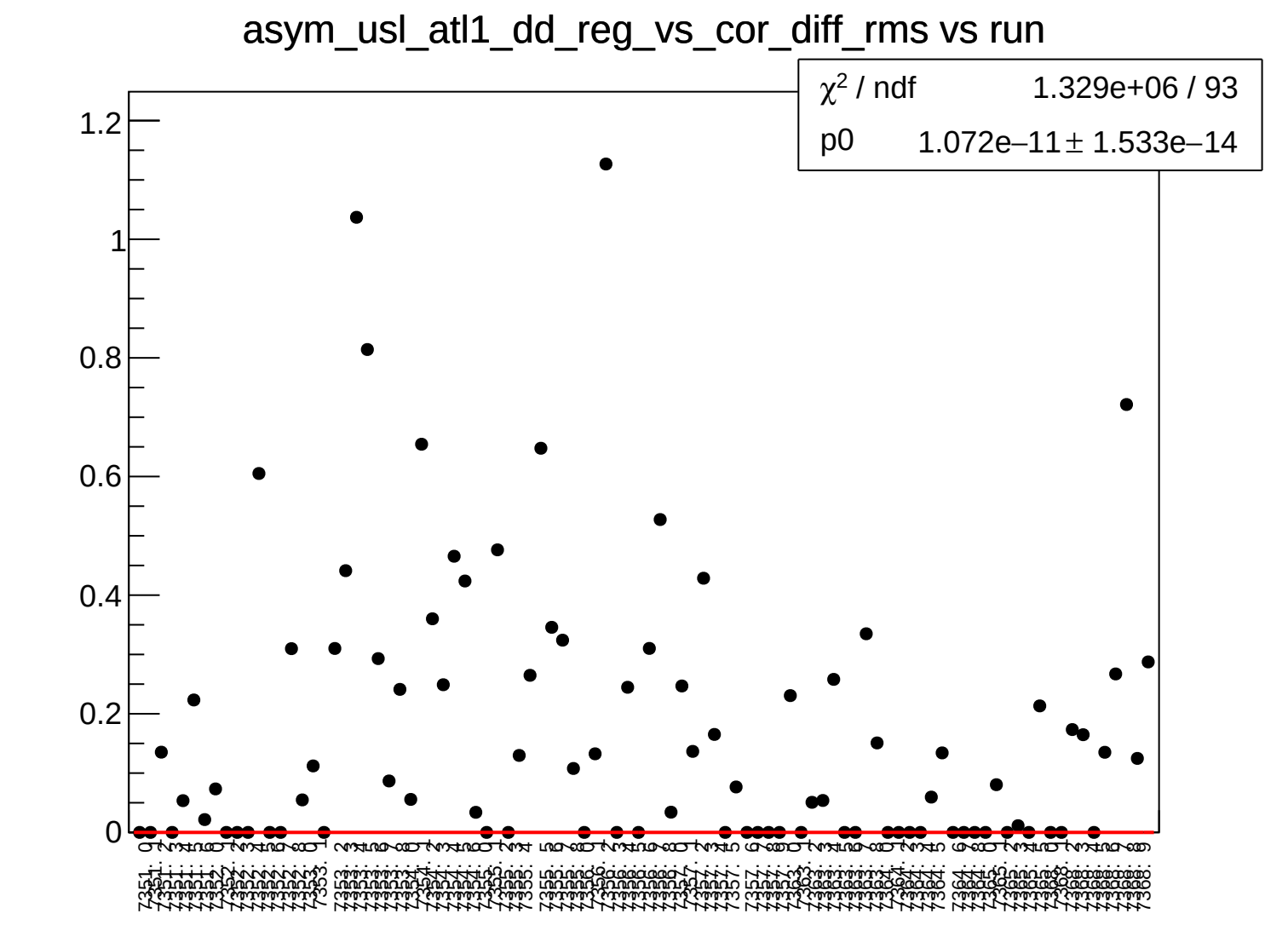

pull1D
Entries 94
Mean 0.01056
Std Dev 1.294
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

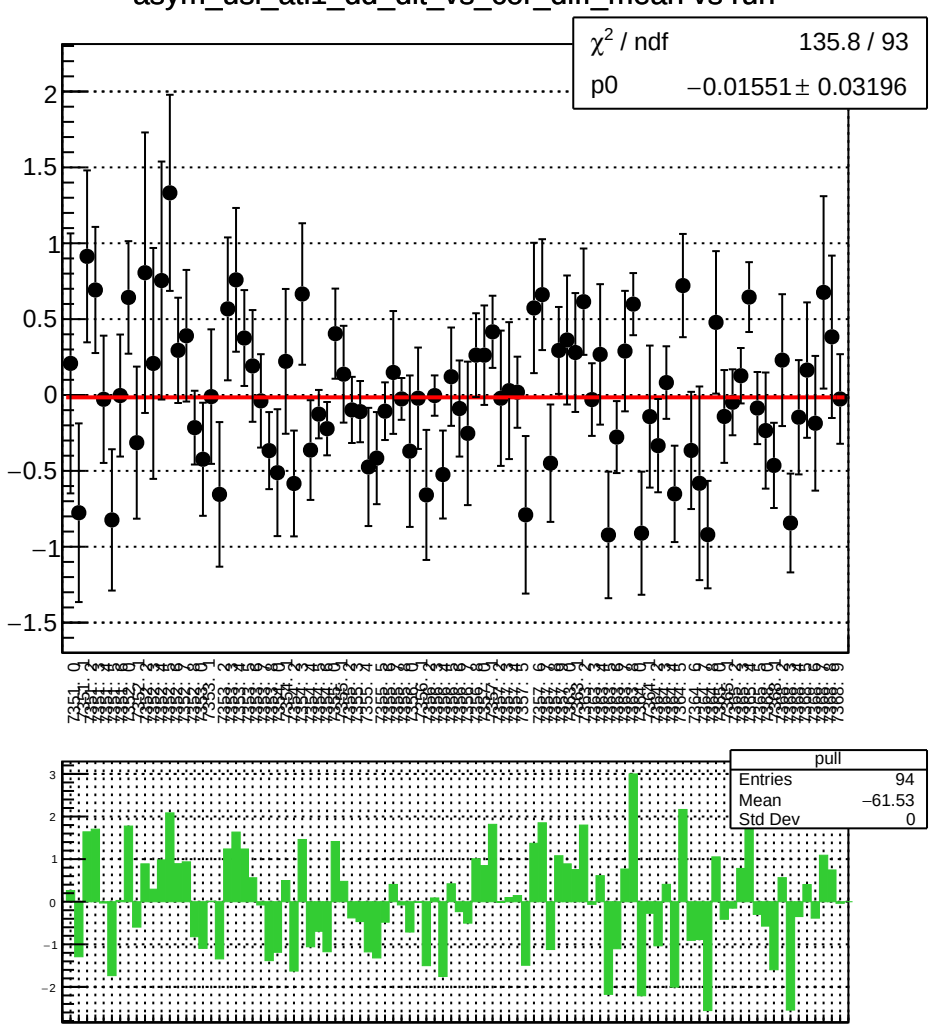

asym_usl_atl1_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.186e+04 / 93
p0 692.8 ± 0.5154
900
850
800
750
700
650
600

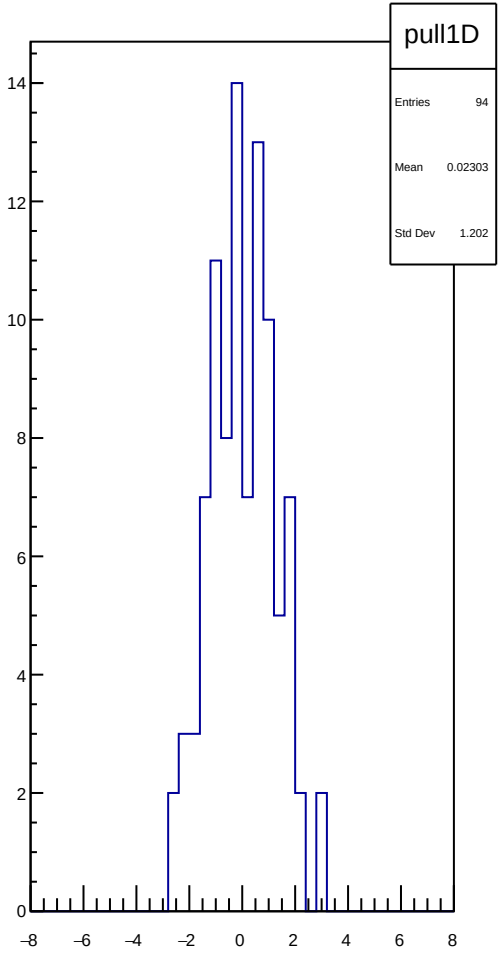

asym_usl_atl1_dd_mean vs run
χ² / ndf 83.89 / 93
p0 −590.1± 1366
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −242
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 94
Mean −0.015
Std Dev 0.9446
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

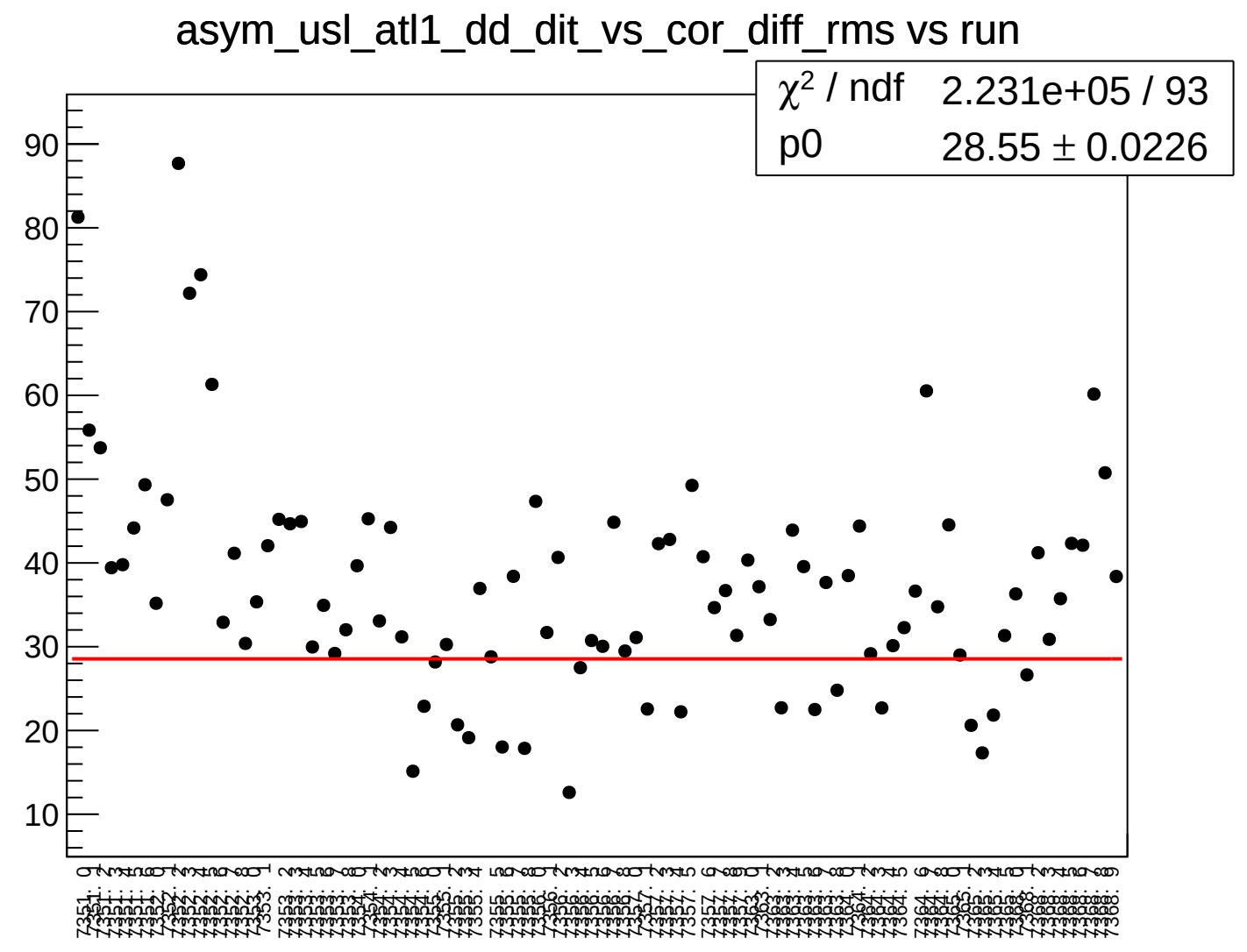

asym_usl_atl1_dd_rms vs run
χ² / ndf 1077 / 93
p0 1303 ± 0.9662
1420
1400
1380
1360
1340
1320
1300
1280
1260
1240
1220

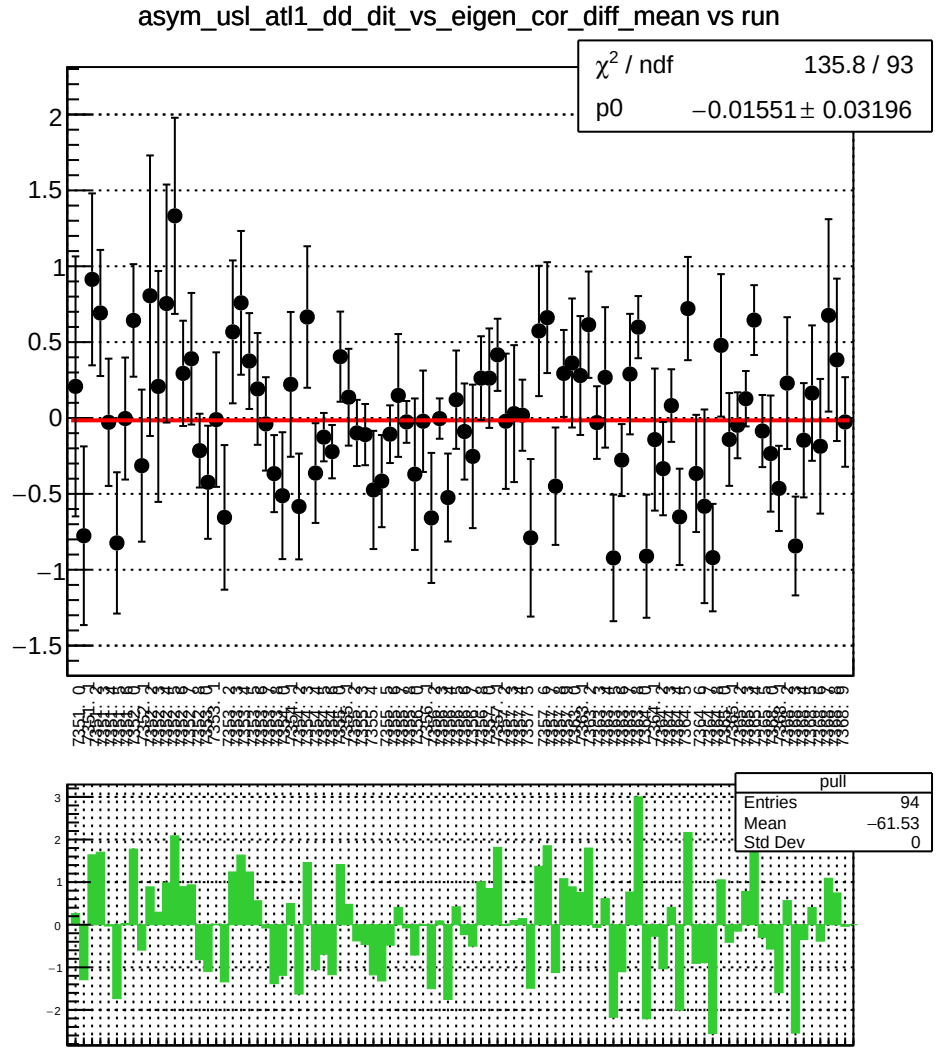

asym_usl_atl1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 147.6 / 93
p0 −1.62e−14 ± 2.168e−14
0.02
0.01
0
−0.01
−0.02
pull
Entries 94
Mean 91.18
Std Dev 15.7
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.1583
Std Dev 1.243
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

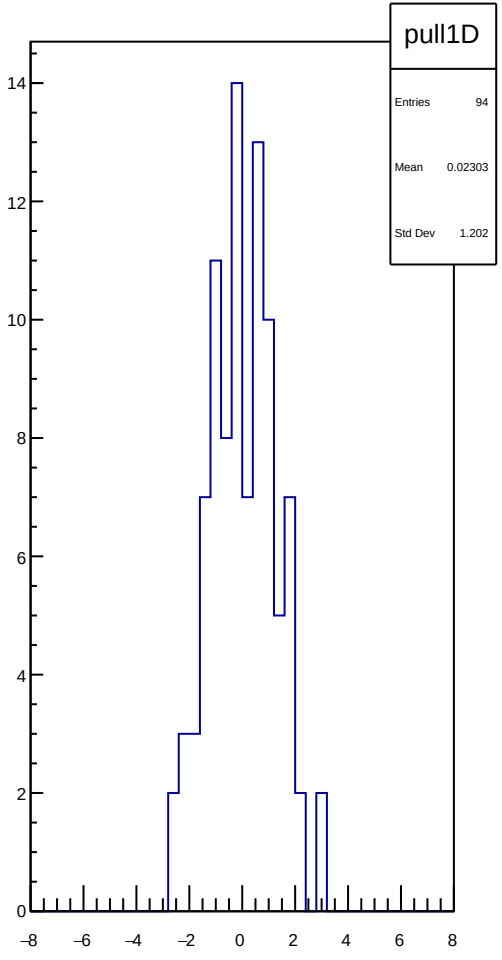

asym_usl_atl1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.329e+06 / 93
p0 1.072e−11 ± 1.533e−14
1.2
1
0.8
0.6
0.4
0.2
0

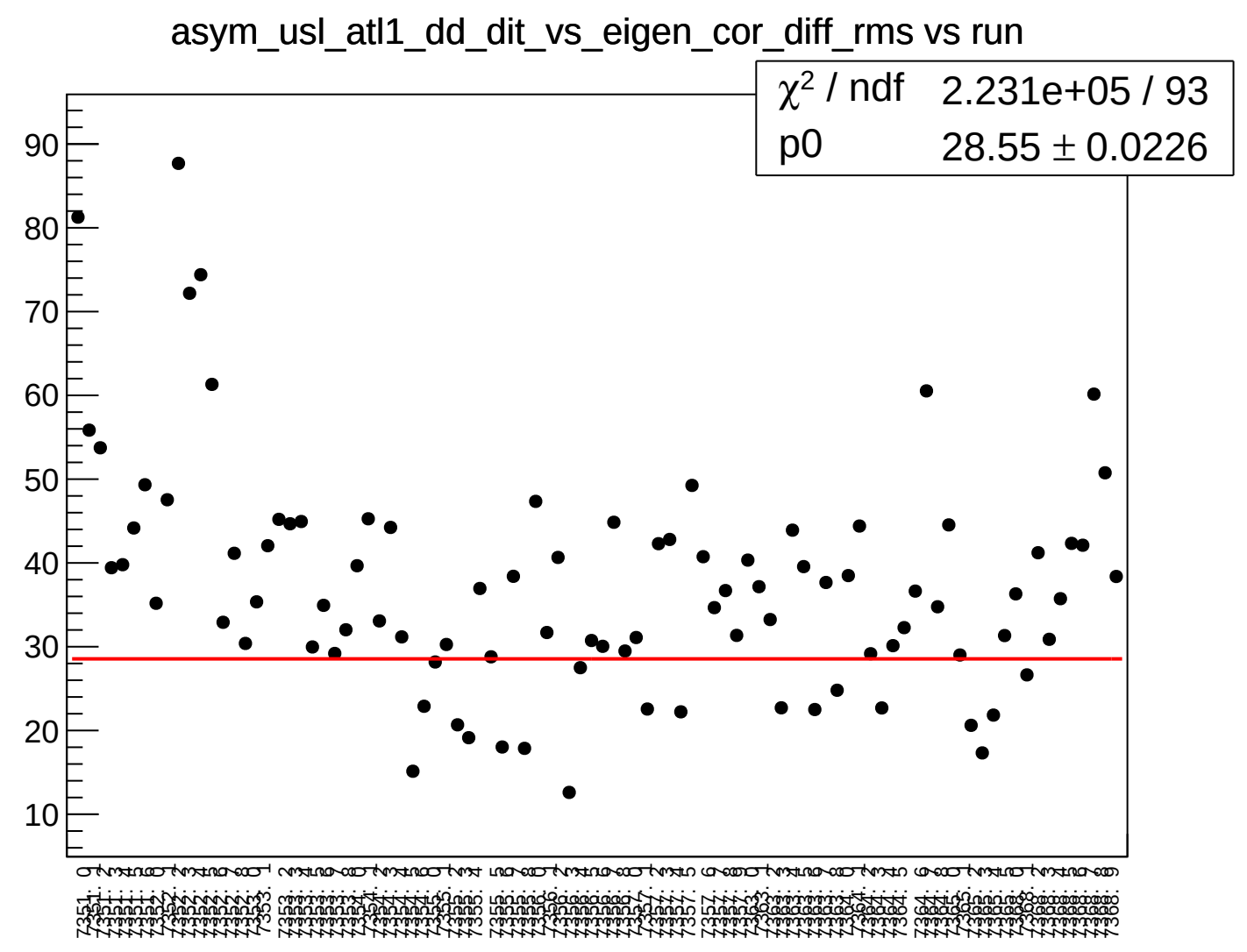

asym_usl_atl1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 135.8 / 93
p0 −0.01551 ± 0.03196
pull
Entries 94
Mean −61.53
Std Dev 0

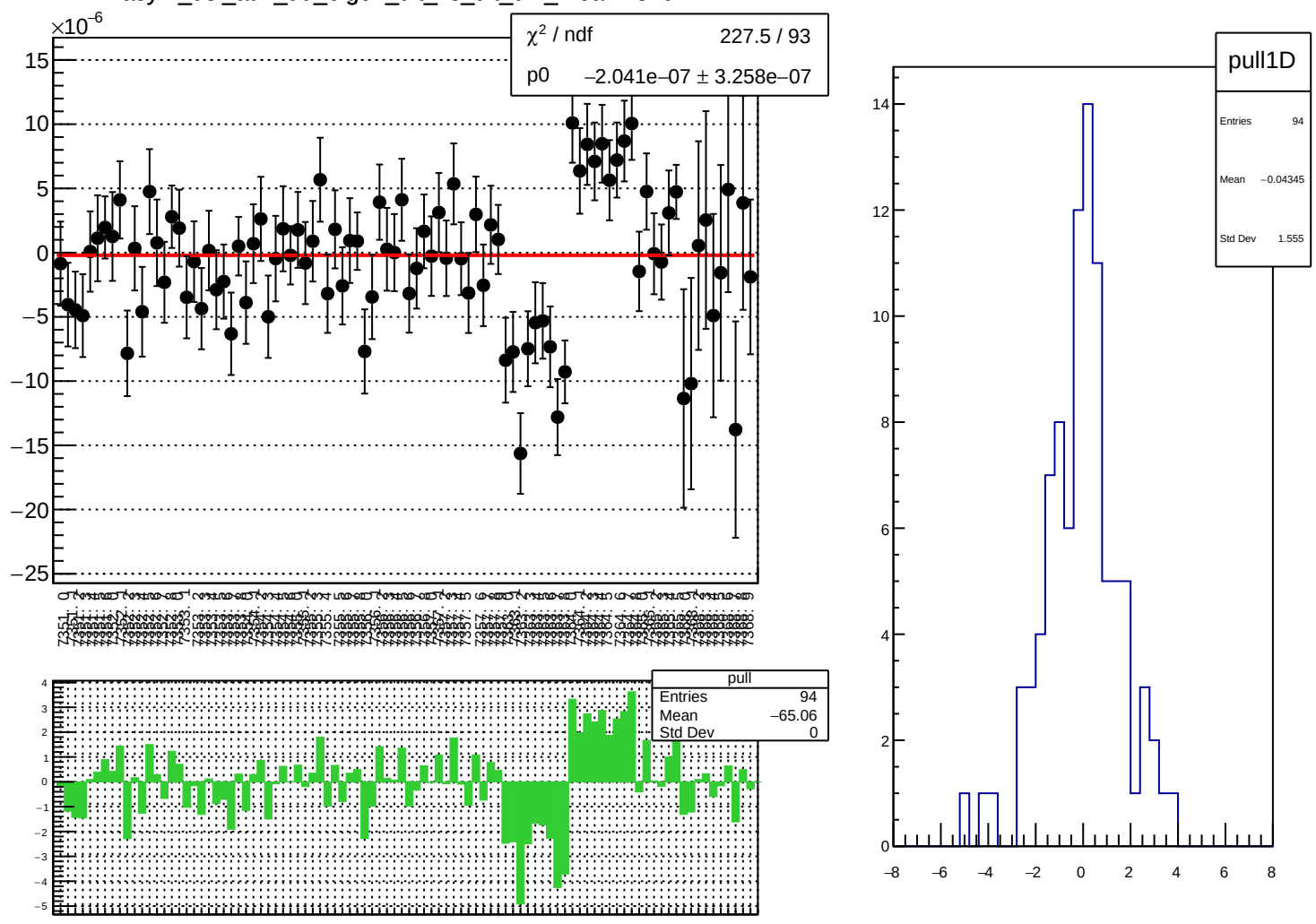

pull1D
Entries 94
Mean 0.02303
Std Dev 1.202

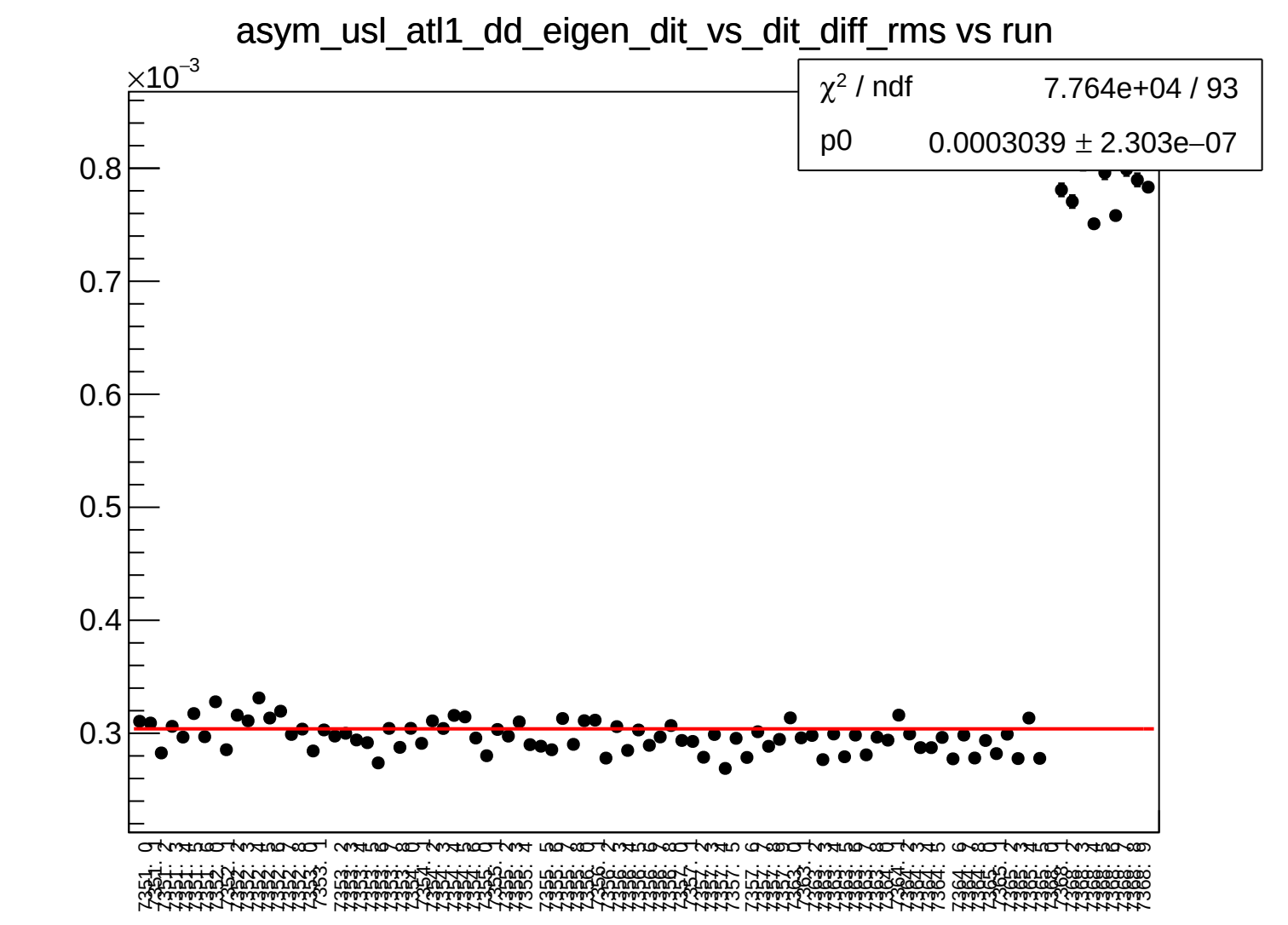

asym_usl_atl1_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.231e+05 / 93
p0 28.55 ± 0.0226
90
80
70
60
50
40
30
20
10

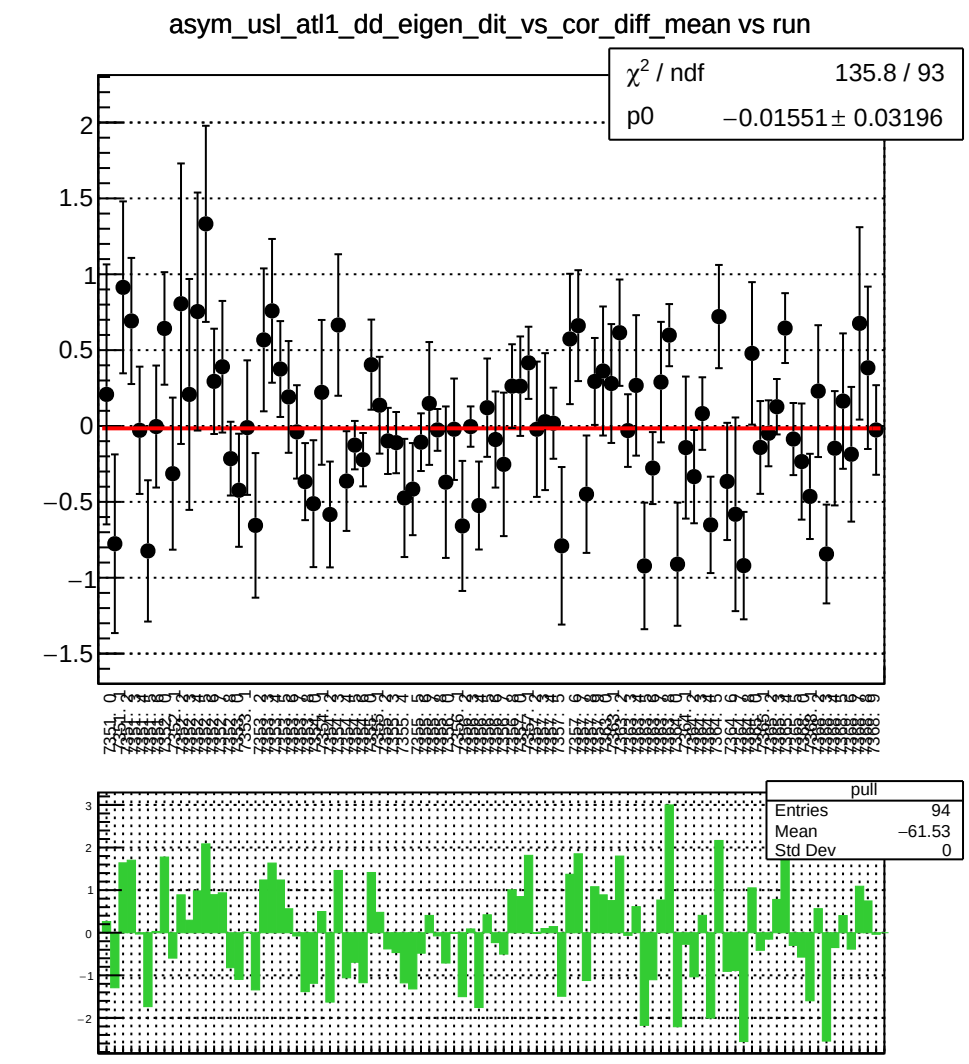

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 135.8 / 93
p0 −0.01551 ± 0.03196
pull
Entries 94
Mean −61.53
Std Dev 0

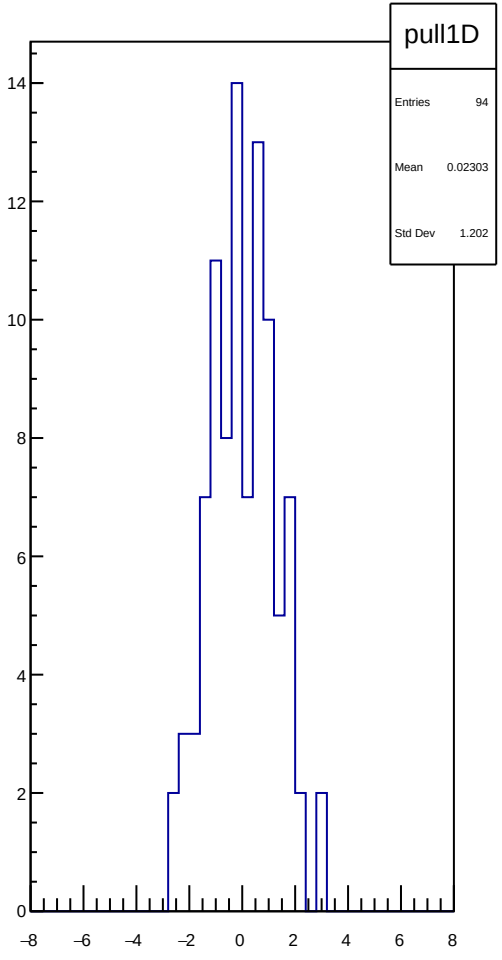

pull1D
Entries 94
Mean 0.02303
Std Dev 1.202

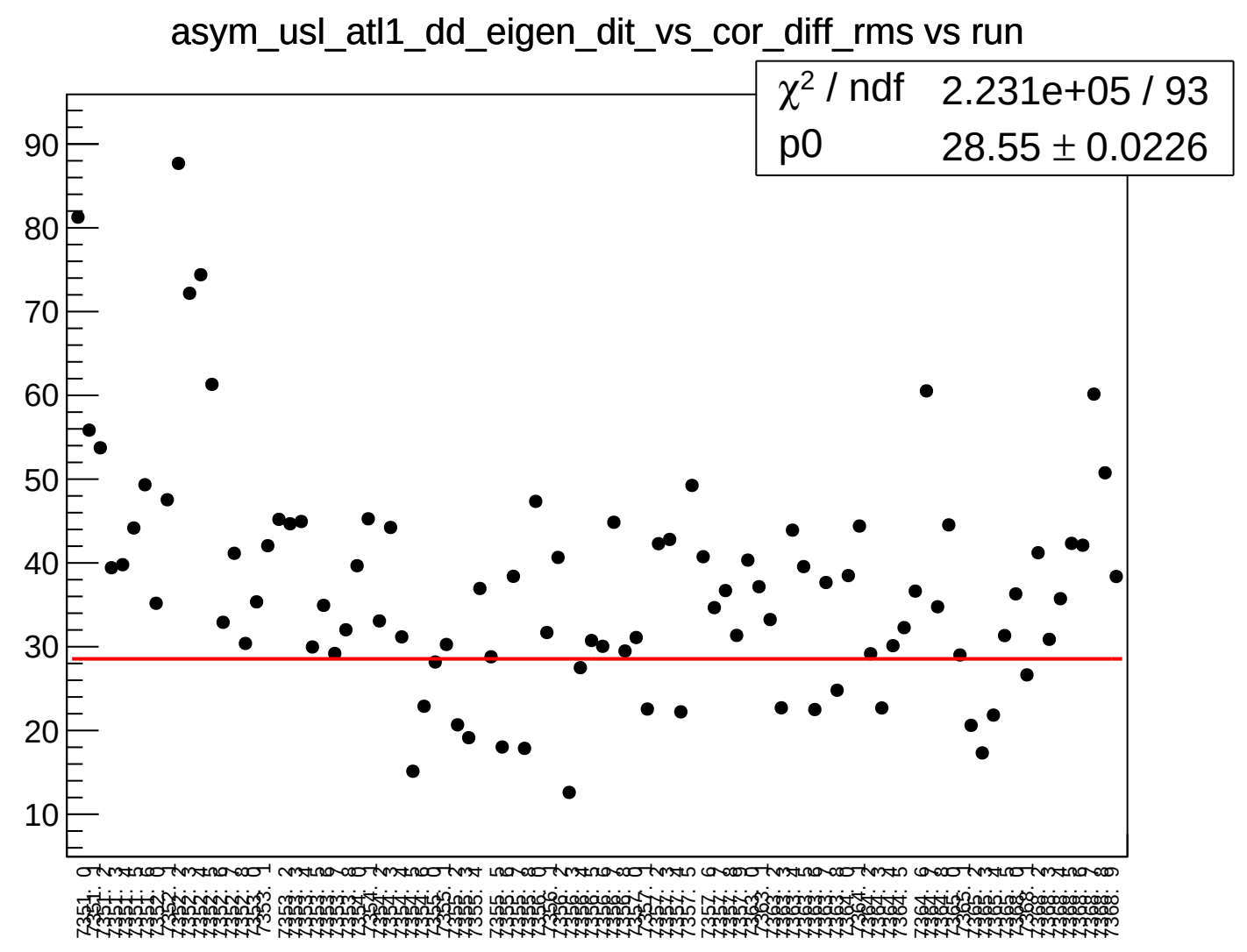

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.231e+05 / 93
p0 28.55 ± 0.0226
90
80
70
60
50
40
30
20
10

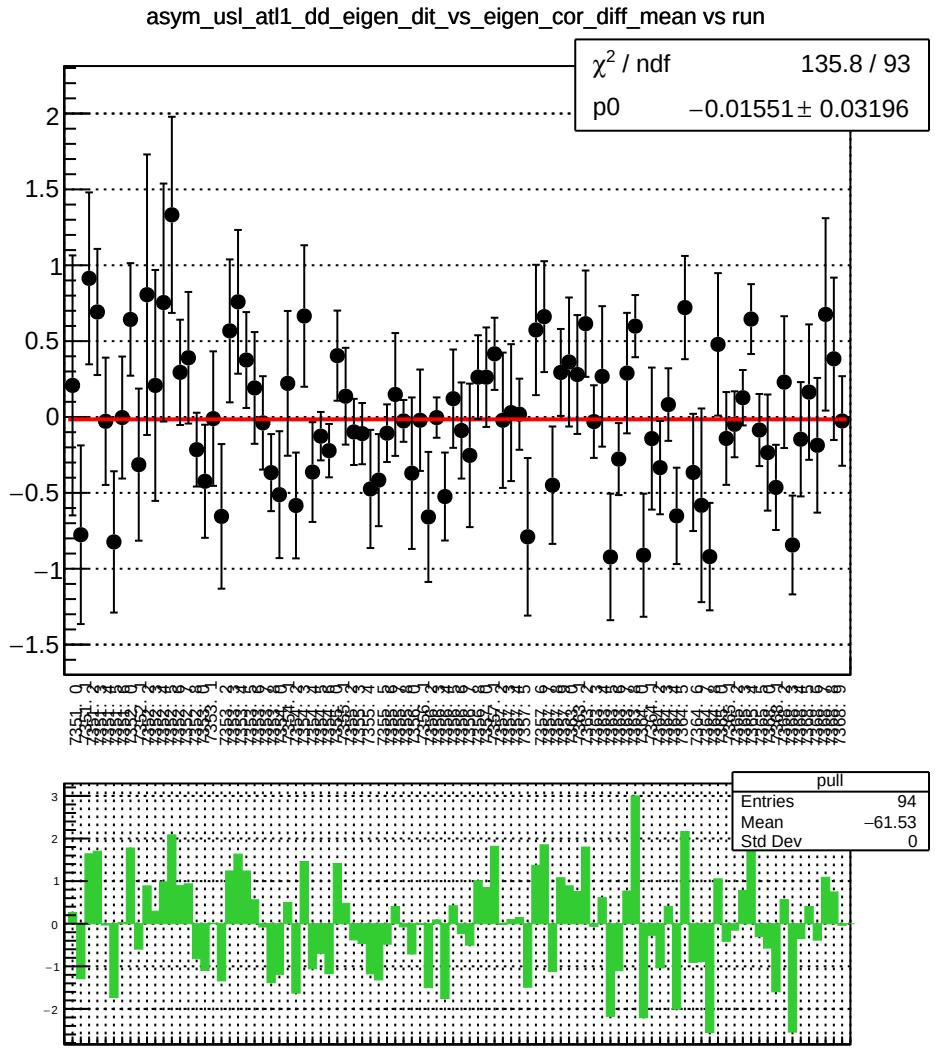

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻⁶
χ² / ndf 227.5 / 93
p0 −2.041e−07 ± 3.258e−07
pull
Entries 94
Mean −65.06
Std Dev 0
pull1D
Entries 94
Mean −0.04345
Std Dev 1.555

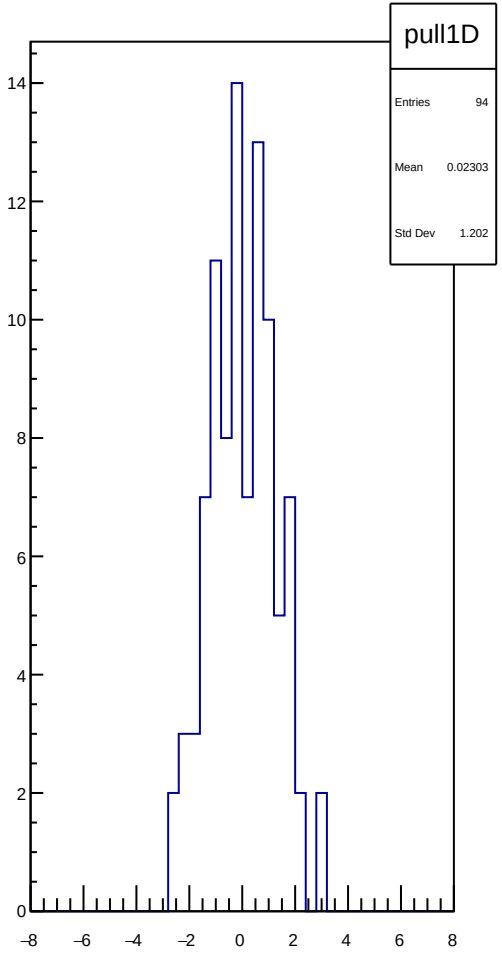

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 7.764e+04 / 93
p0 0.0003039 ± 2.303e−07
0.8
0.7
0.6
0.5
0.4
0.3

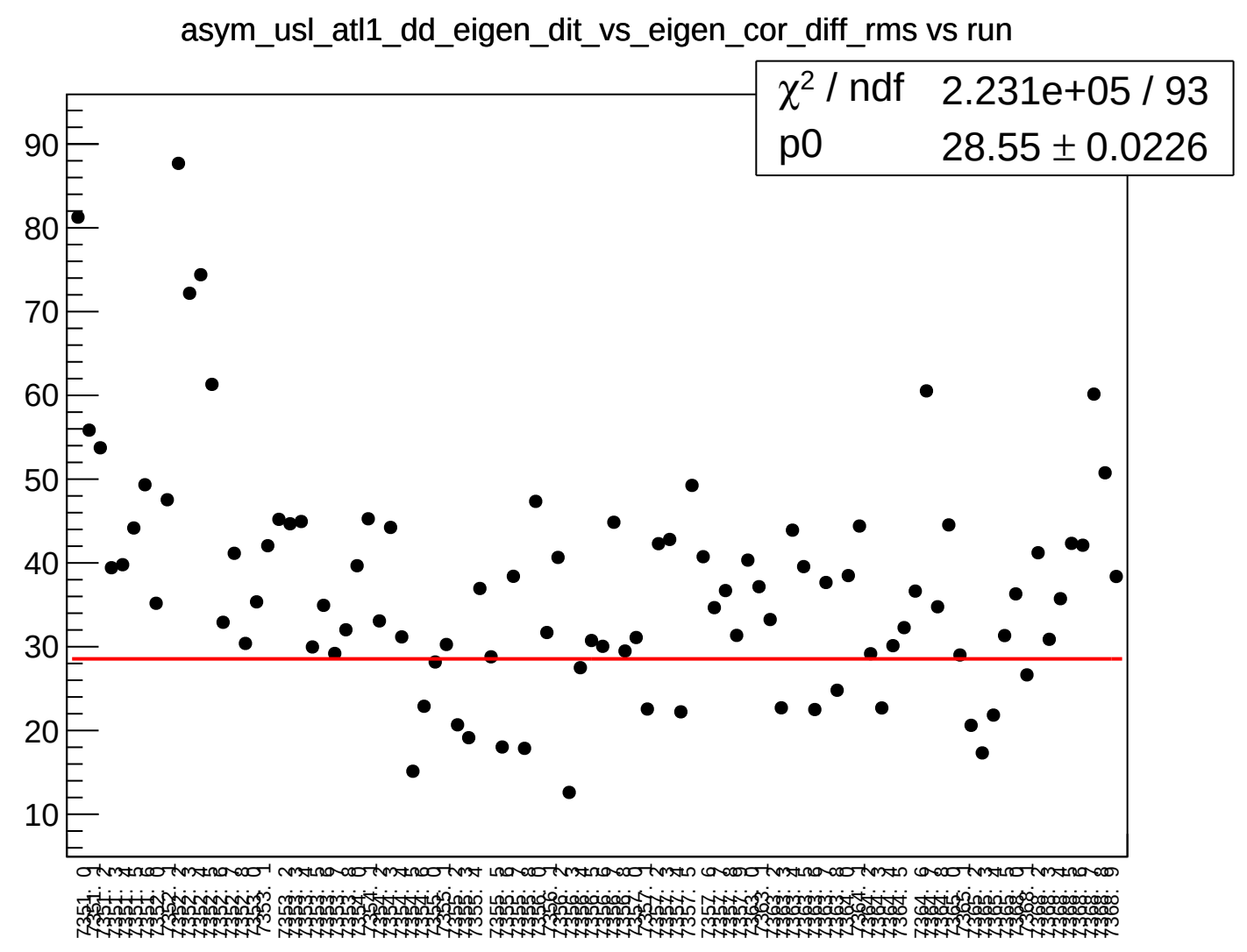

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 135.8 / 93
p0 −0.01551 ± 0.03196
pull
Entries 94
Mean −61.53
Std Dev 0

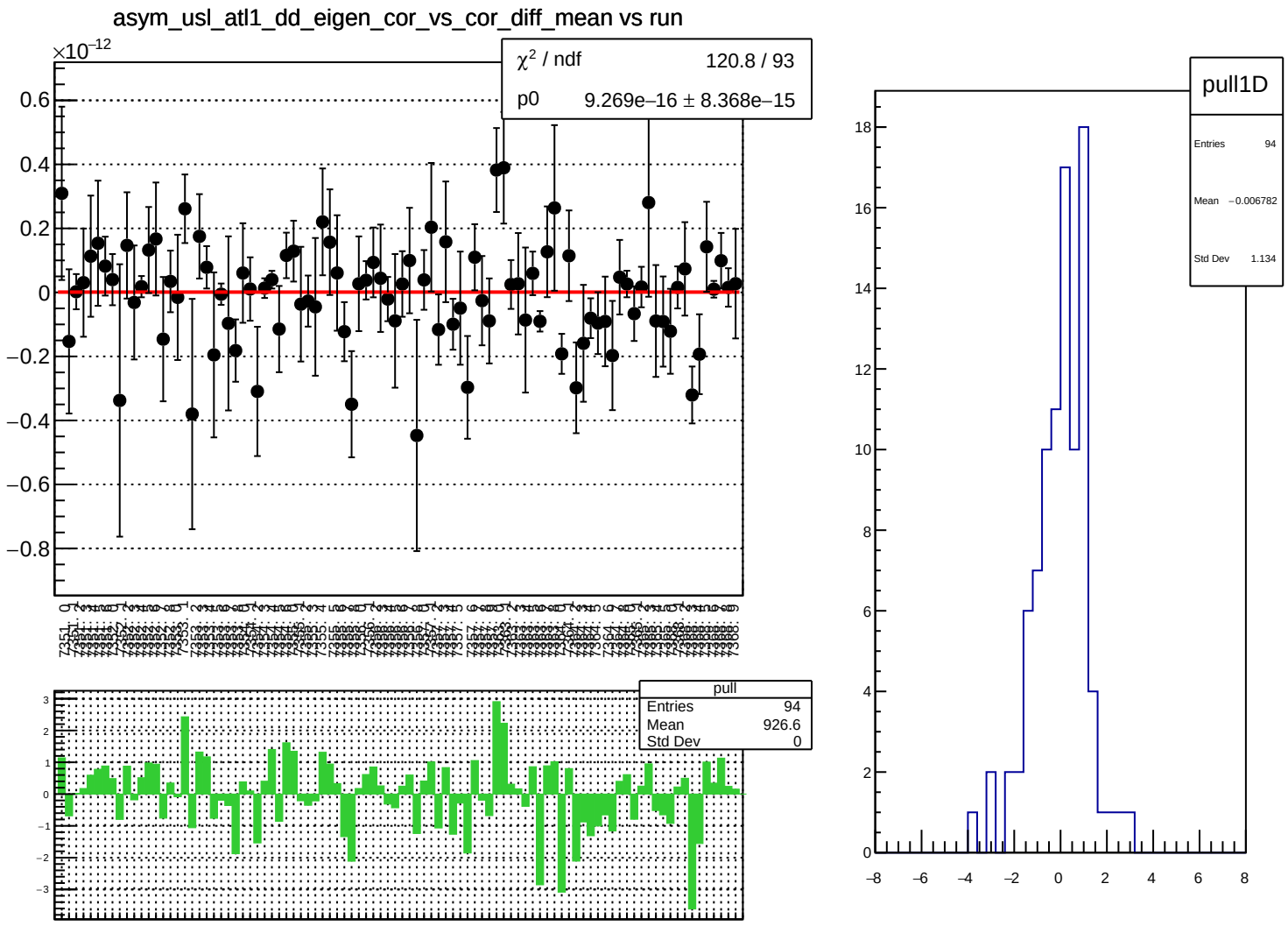

pull1D
Entries 94
Mean 0.02303
Std Dev 1.202

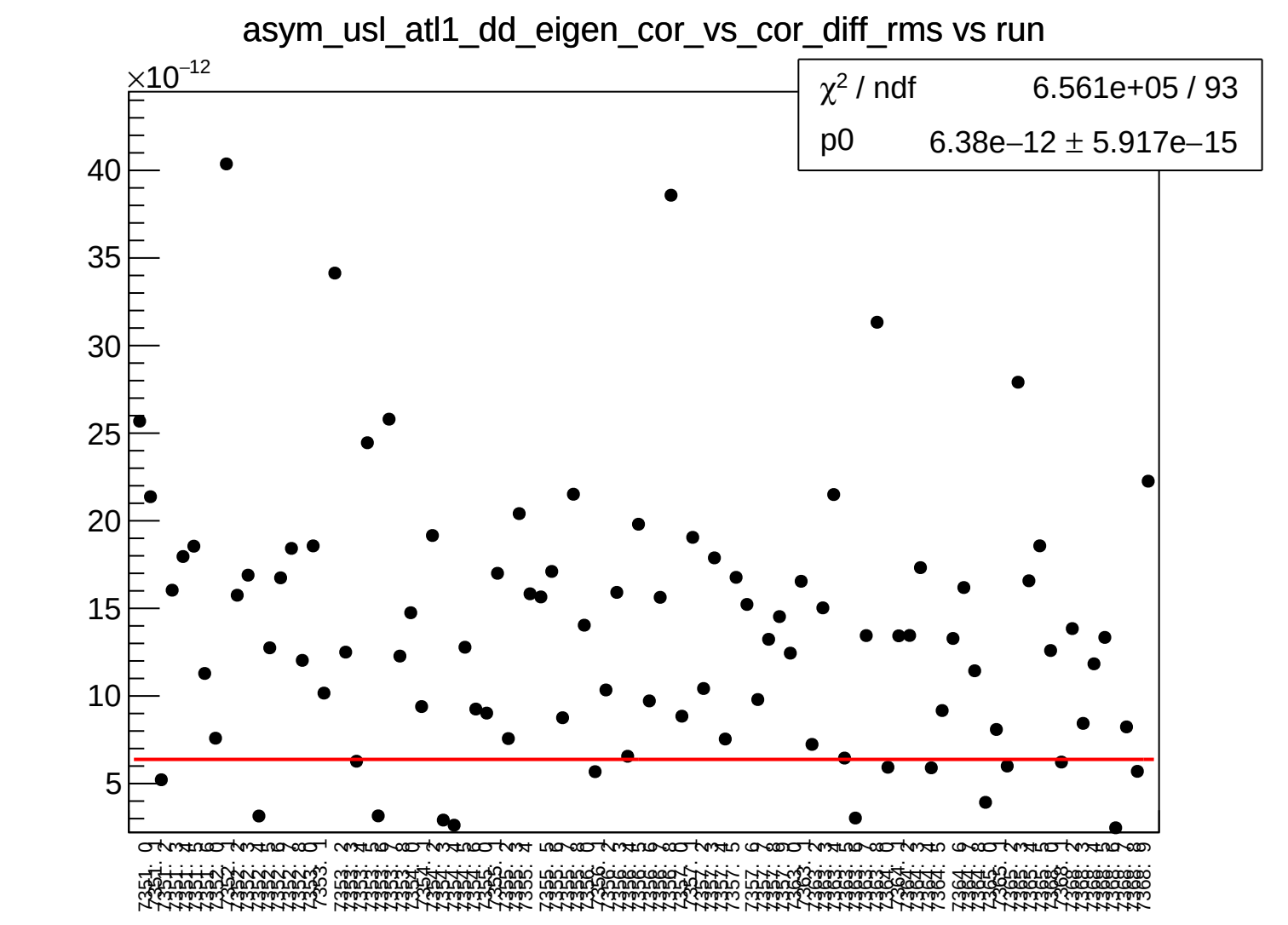

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.231e+05 / 93
p0 28.55 ± 0.0226
90
80
70
60
50
40
30
20
10

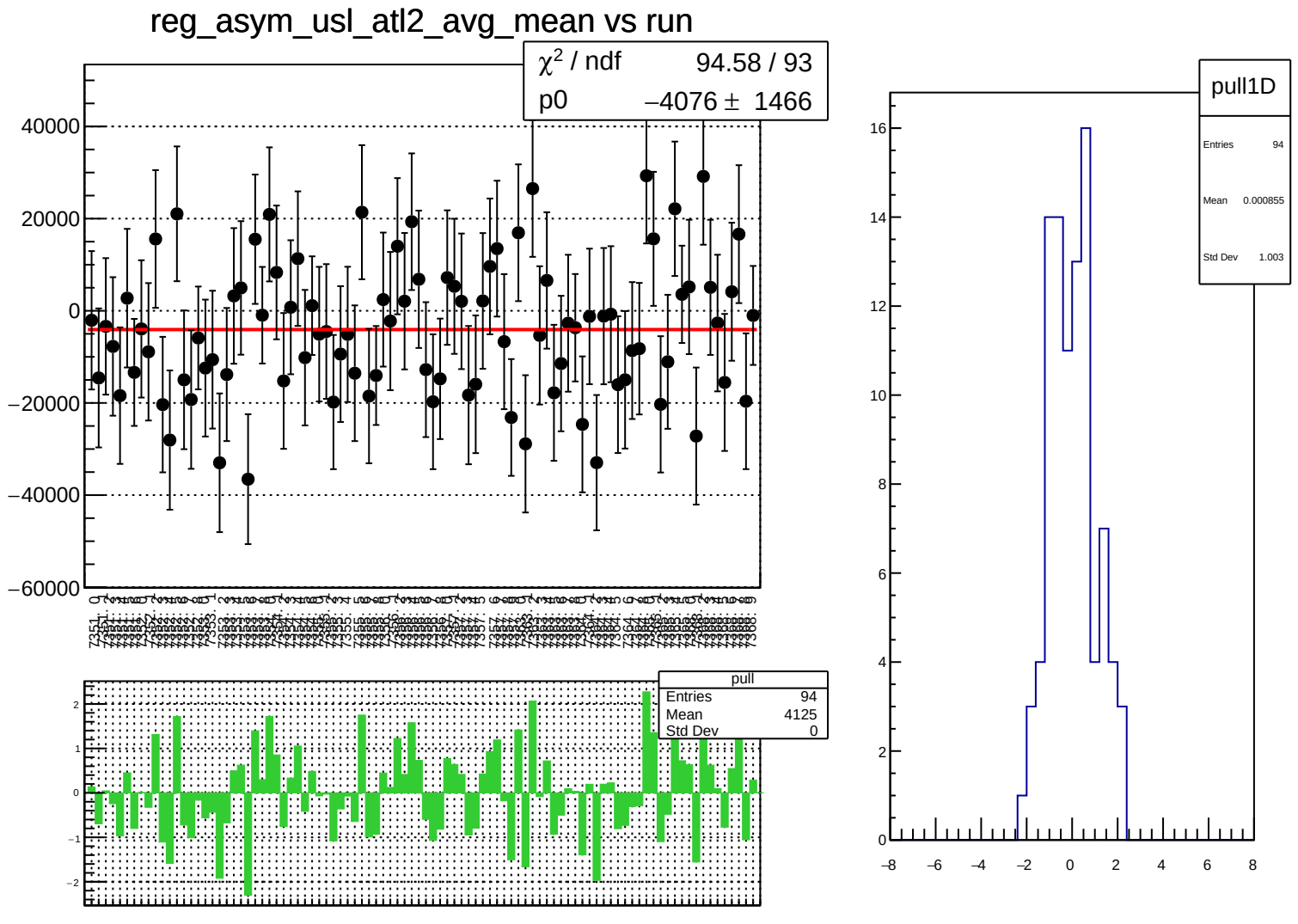

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 135.8 / 93
p0 −0.01551 ± 0.03196
pull
Entries 94
Mean −61.53
Std Dev 0

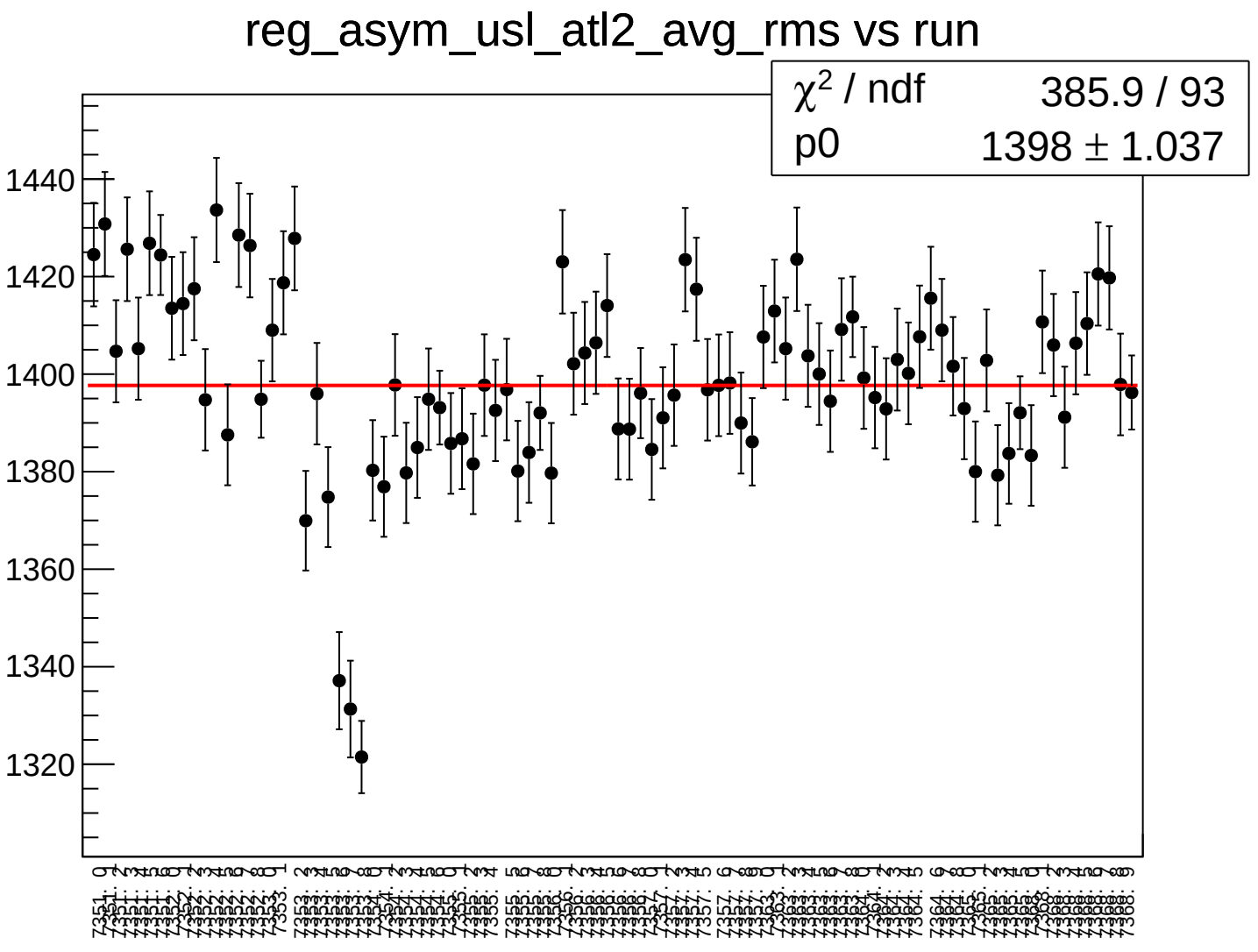

pull1D
Entries 94
Mean 0.02303
Std Dev 1.202

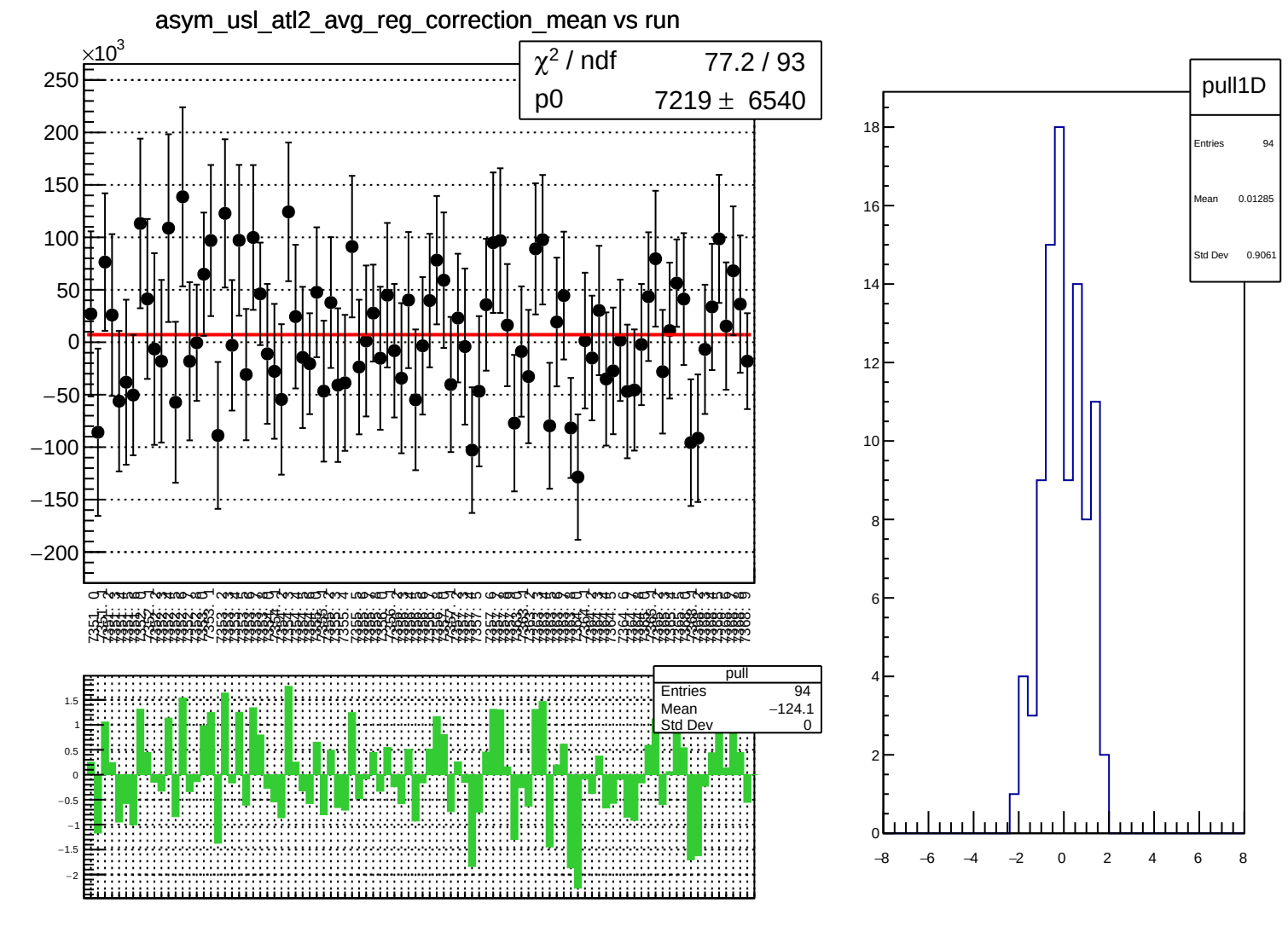

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.231e+05 / 93
p0 28.55 ± 0.0226
90
80
70
60
50
40
30
20
10

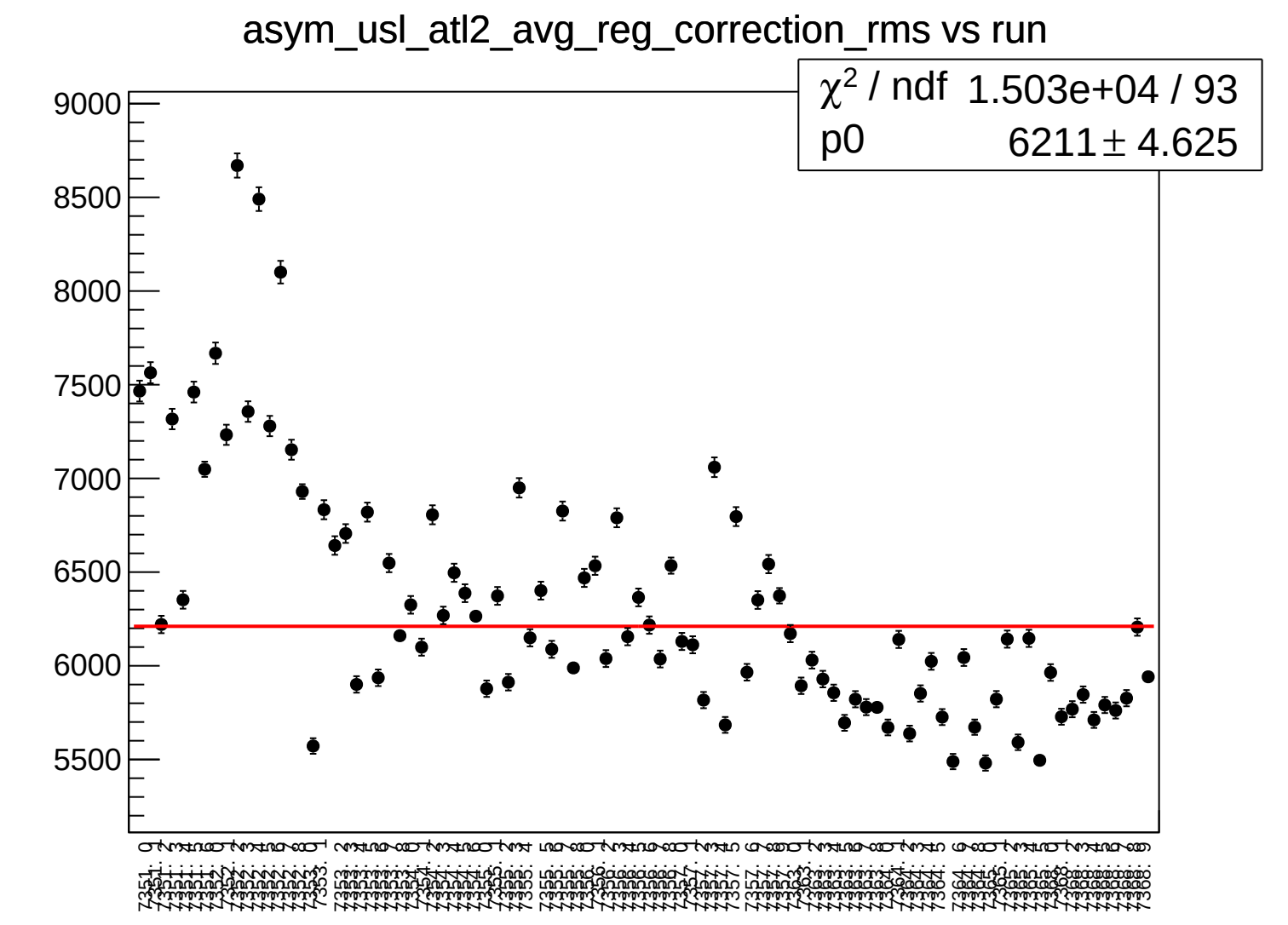

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 120.8 / 93
p0 9.269e−16 ± 8.368e−15
pull
Entries 94
Mean 926.6
Std Dev 0
pull1D
Entries 94
Mean −0.006782
Std Dev 1.134

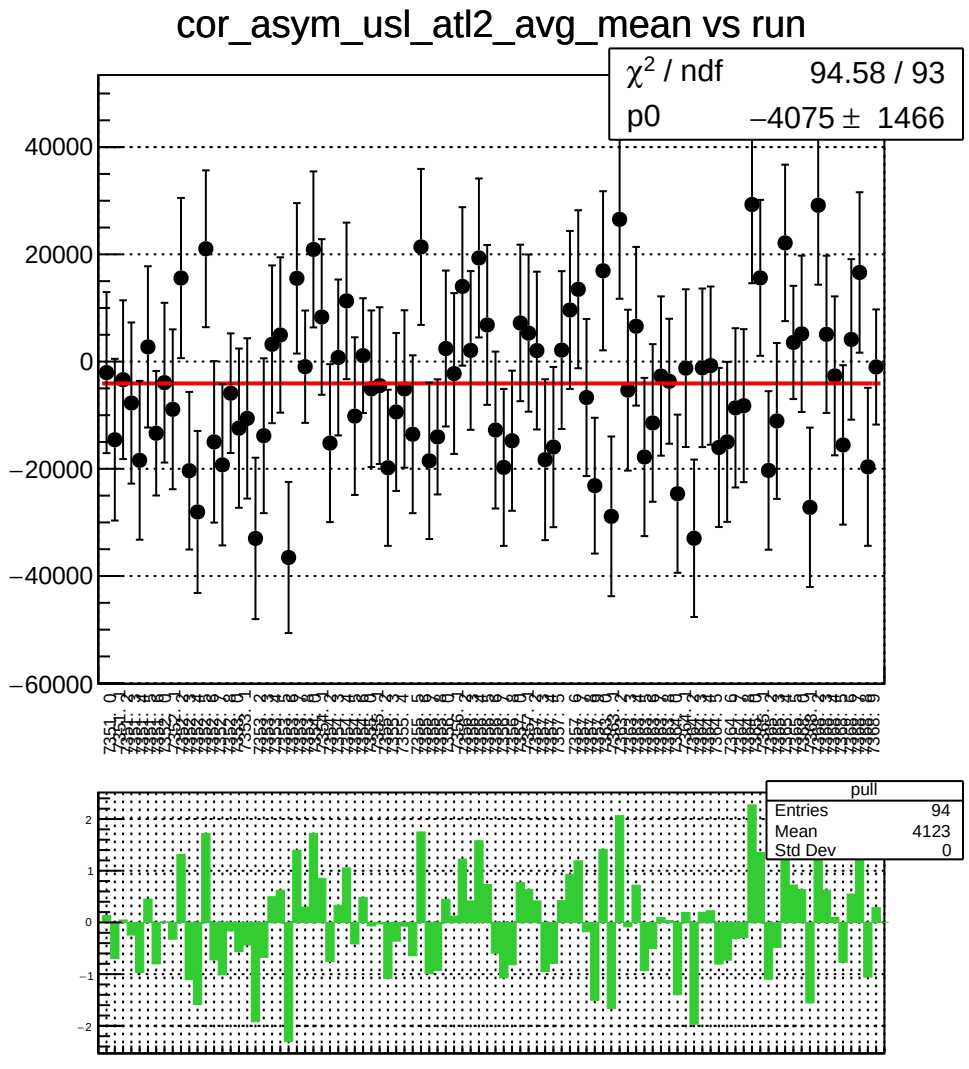

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.561e+05 / 93
p0 6.38e−12 ± 5.917e−15
40
35
30
25
20
15
10
5

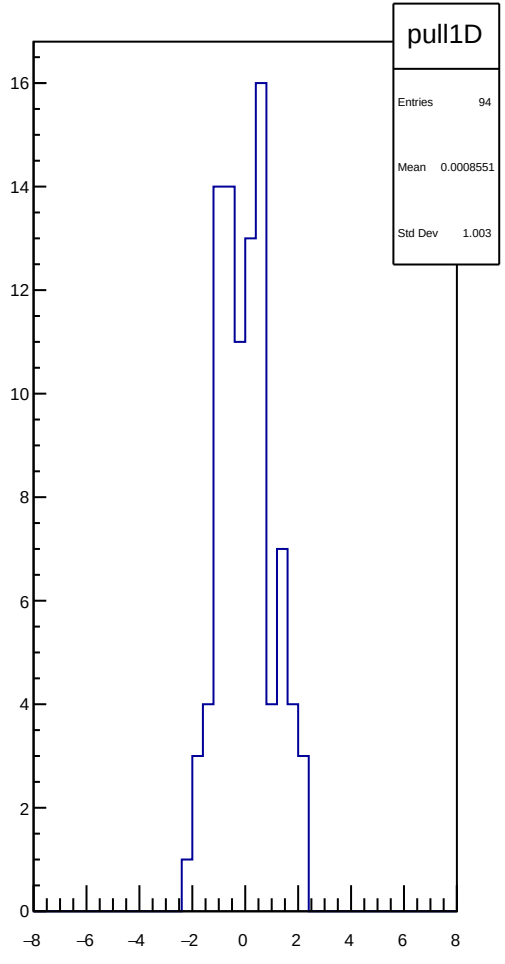

reg_asym_usl_atl2_avg_mean vs run
χ² / ndf 94.58 / 93
p0 −4076 ± 1466
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 4125
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.000855
Std Dev 1.003
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

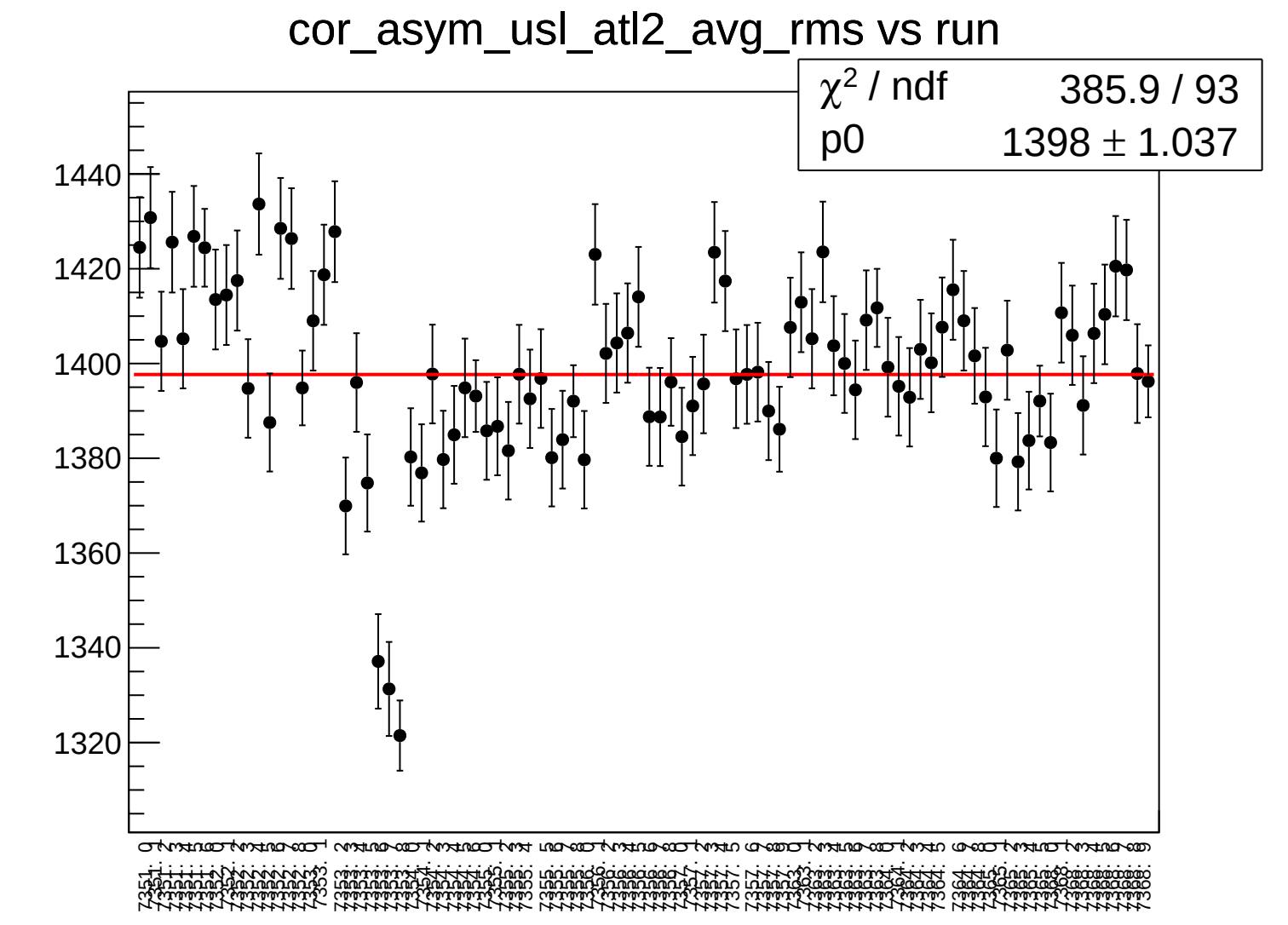

reg_asym_usl_atl2_avg_rms vs run
χ² / ndf 385.9 / 93
p0 1398 ± 1.037
1440
1420
1400
1380
1360
1340
1320

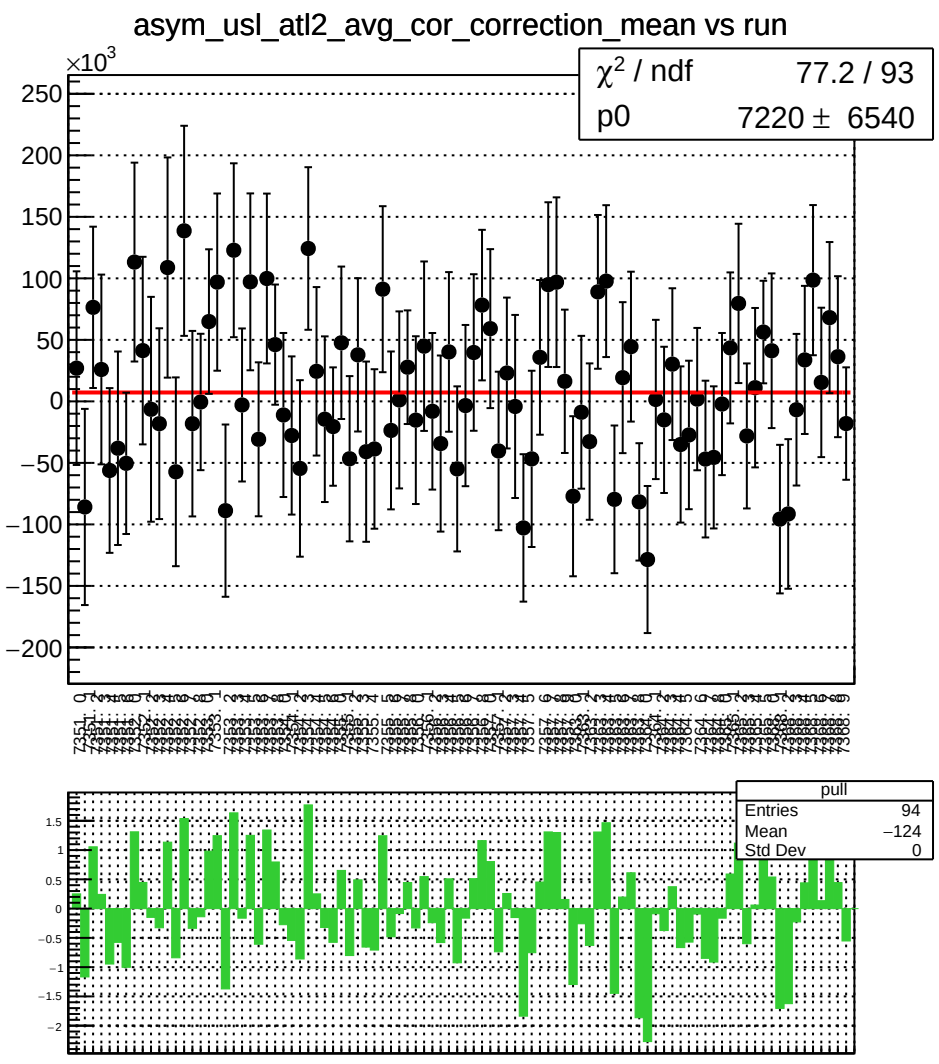

asym_usl_atl2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 77.2 / 93
p0 7219 ± 6540
pull
Entries 94
Mean −124.1
Std Dev 0
pull1D
Entries 94
Mean 0.01285
Std Dev 0.9061

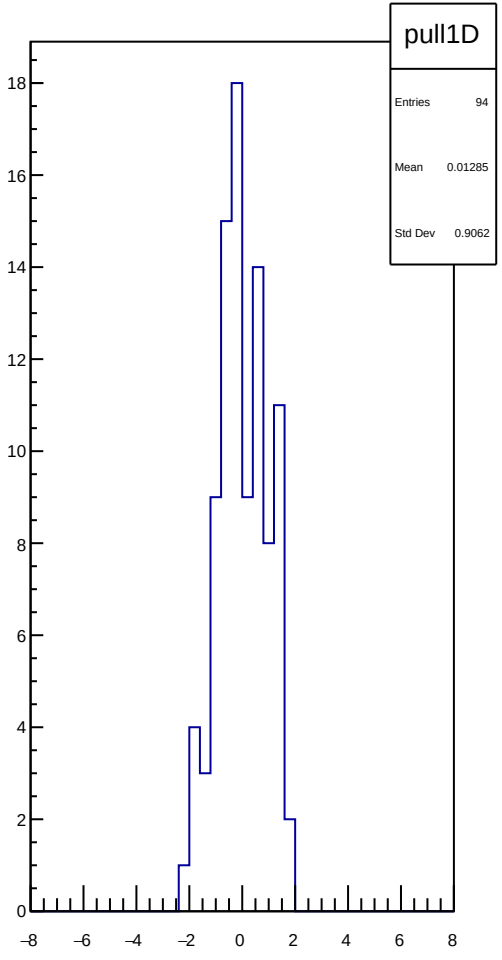

asym_usl_atl2_avg_reg_correction_rms vs run
χ² / ndf 1.503e+04 / 93
p0 6211 ± 4.625
9000
8500
8000
7500
7000
6500
6000
5500

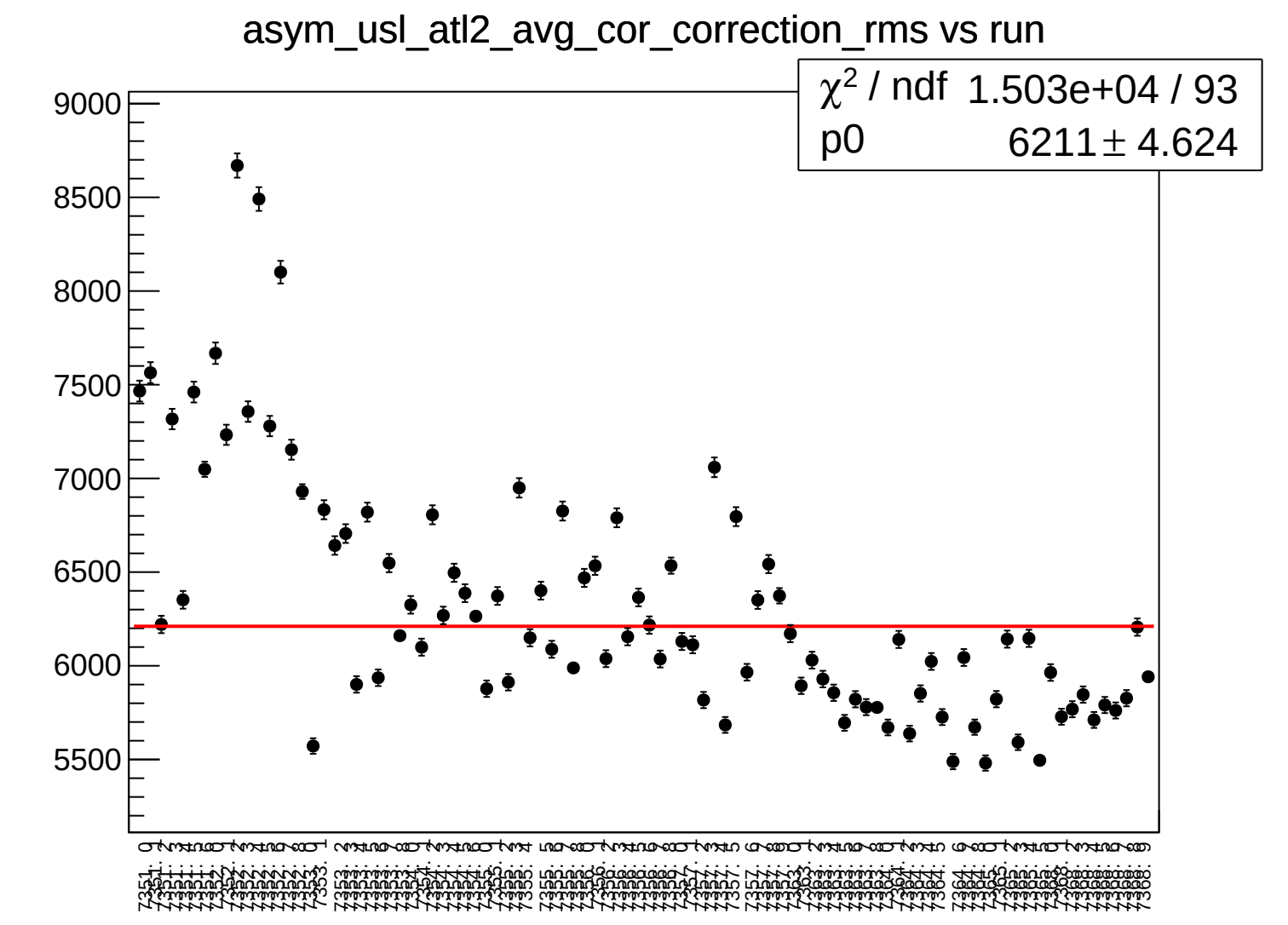

cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 94.58 / 93
p0 −4075 ± 1466
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 4123
Std Dev 0
2
1
0
−1
−2

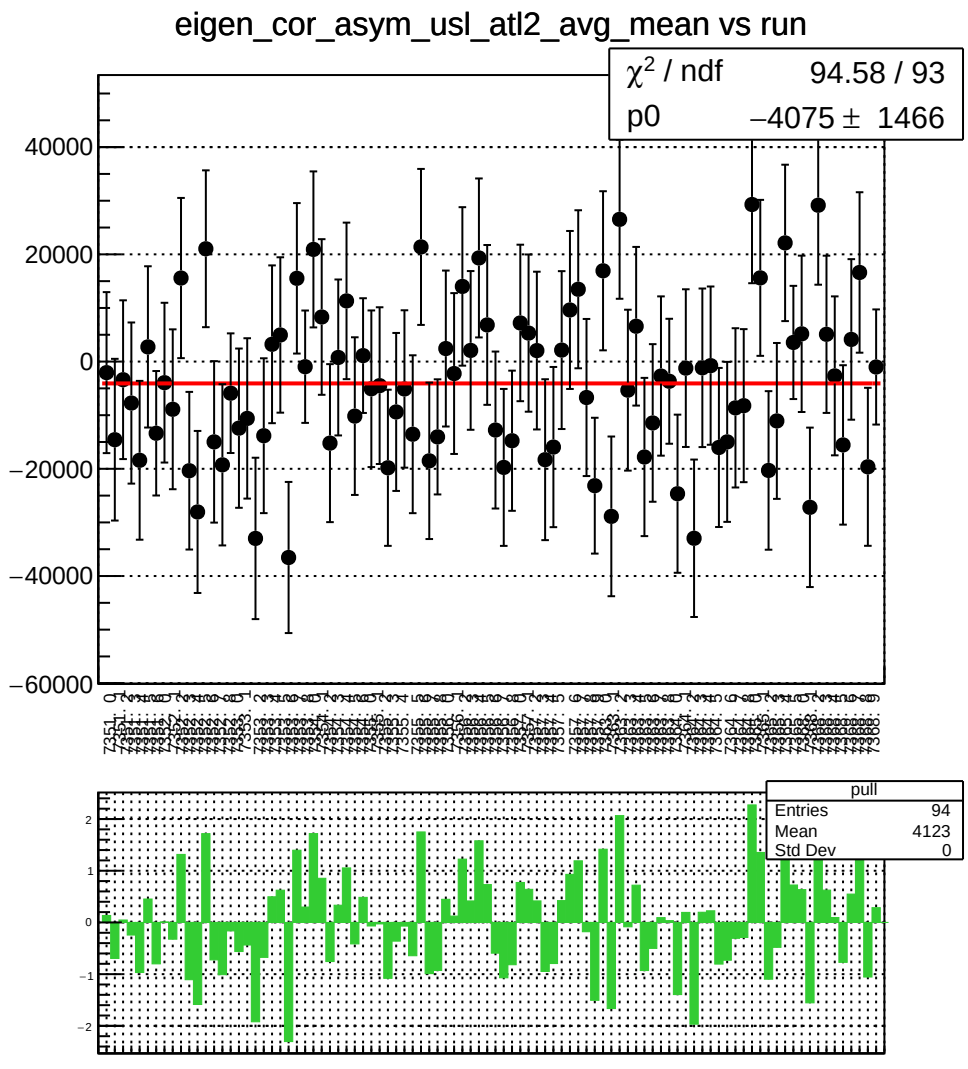

pull1D
Entries 94
Mean 0.0008551
Std Dev 1.003
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

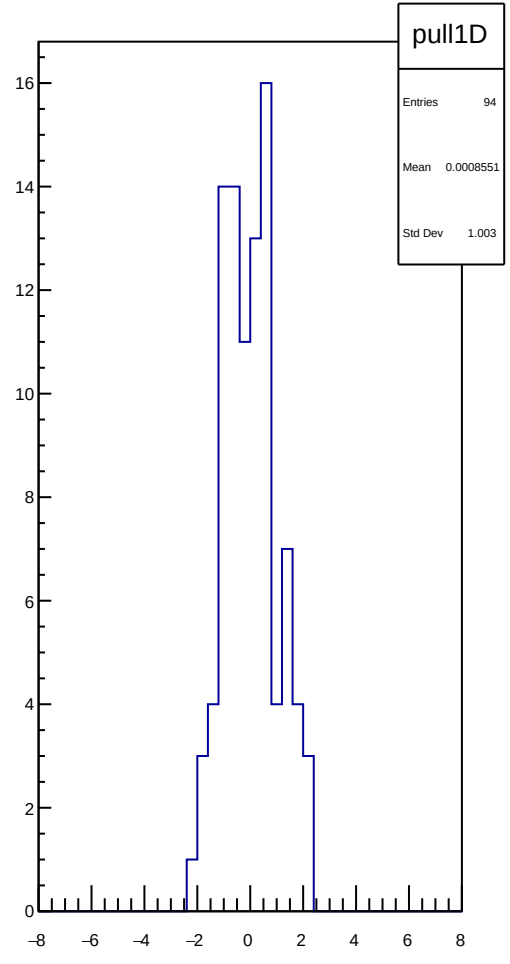

cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 385.9 / 93
p0 1398 ± 1.037
1440
1420
1400
1380
1360
1340
1320

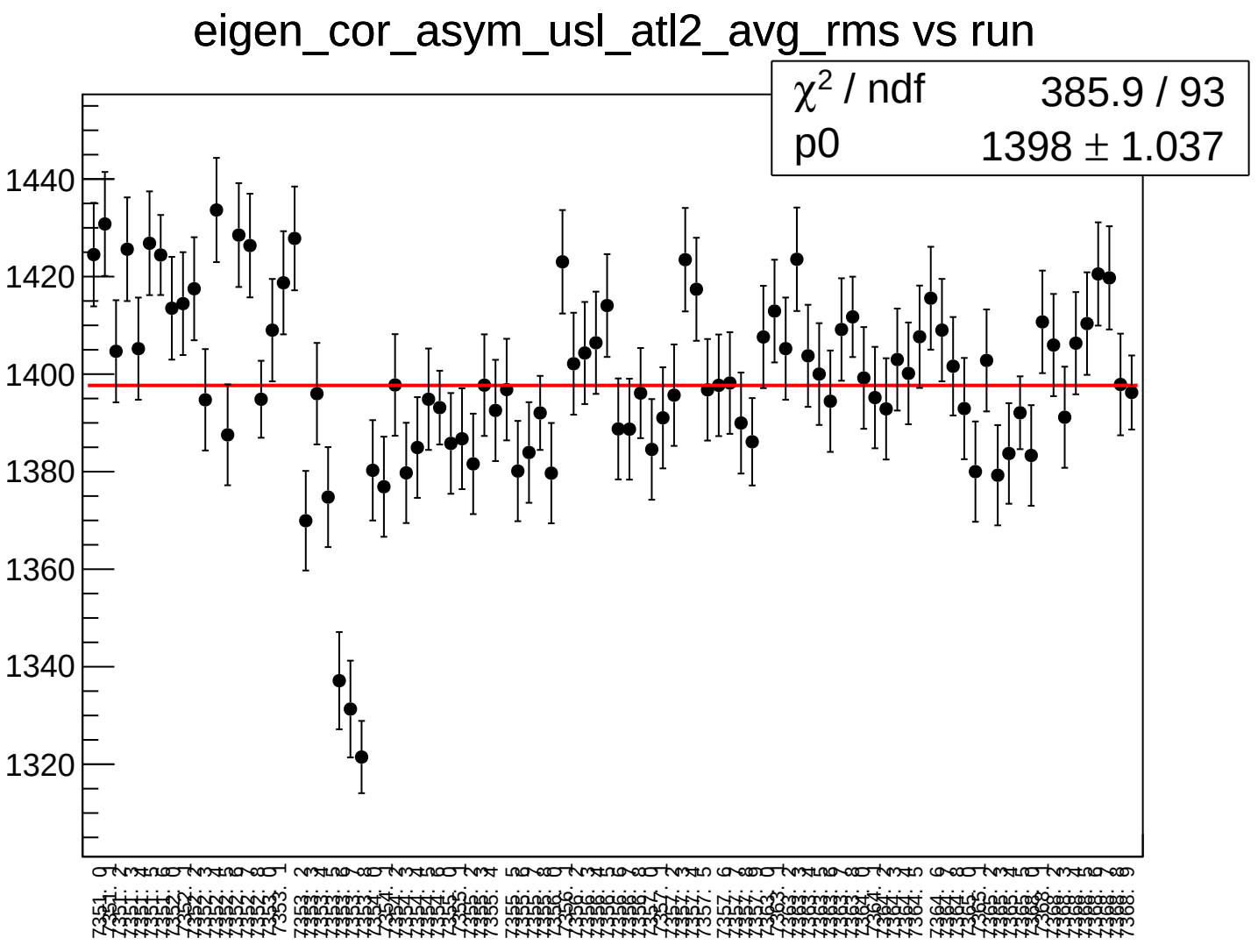

asym_usl_atl2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 77.2 / 93
p0 7220 ± 6540
pull
Entries 94
Mean −124
Std Dev 0

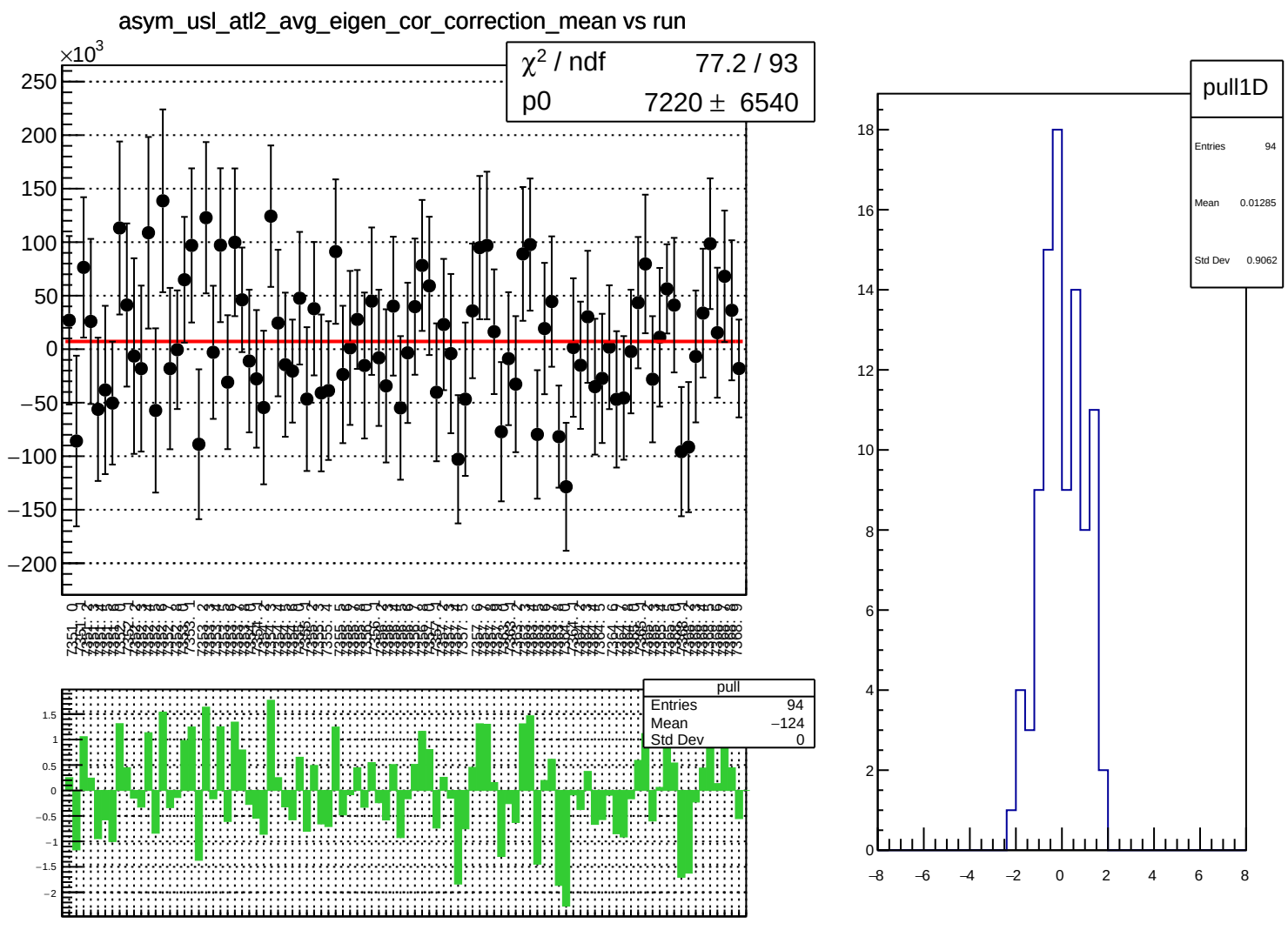

pull1D
Entries 94
Mean 0.01285
Std Dev 0.9062

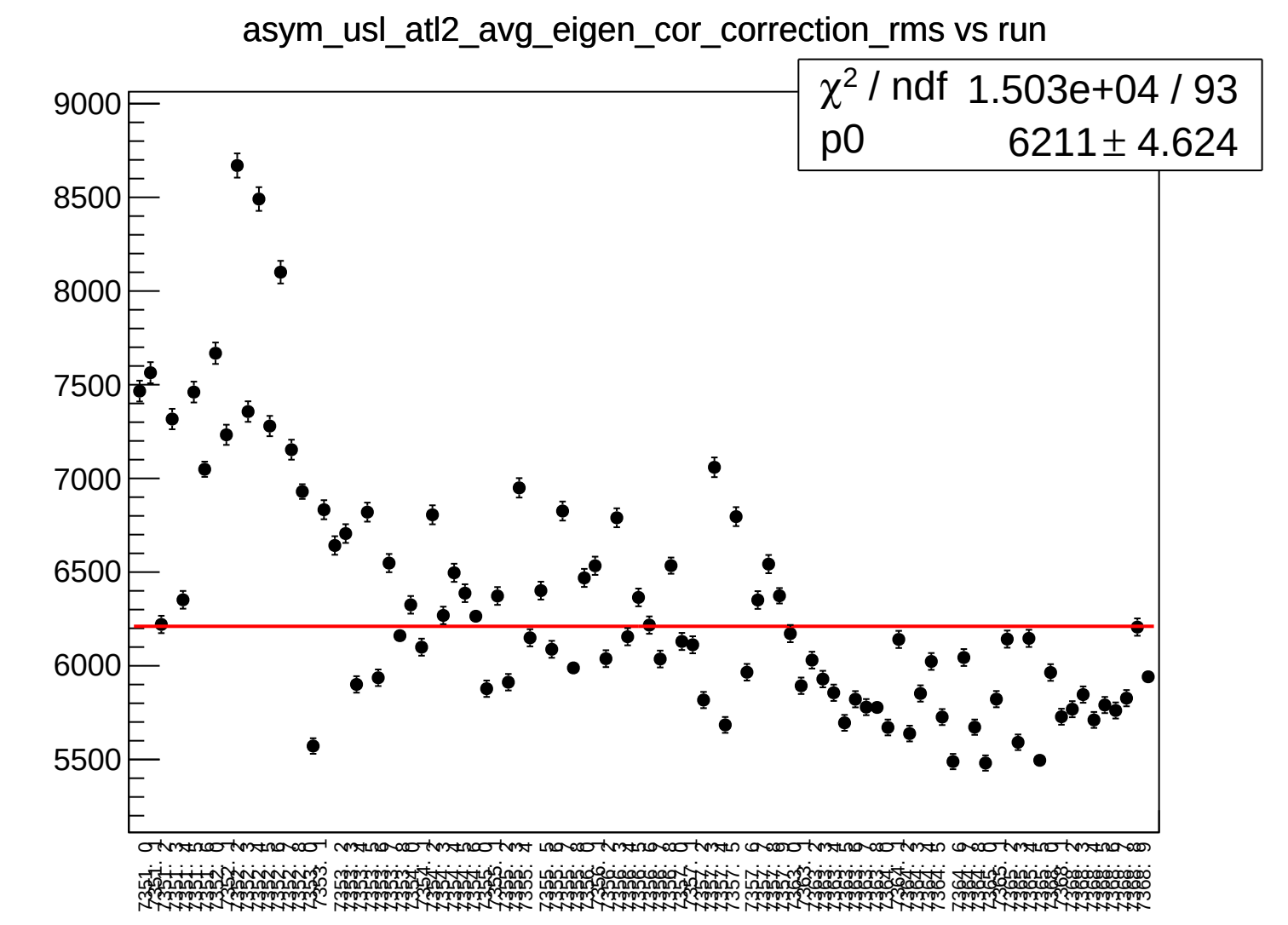

asym_usl_atl2_avg_cor_correction_rms vs run
χ² / ndf 1.503e+04 / 93
p0 6211 ± 4.624
9000
8500
8000
7500
7000
6500
6000
5500

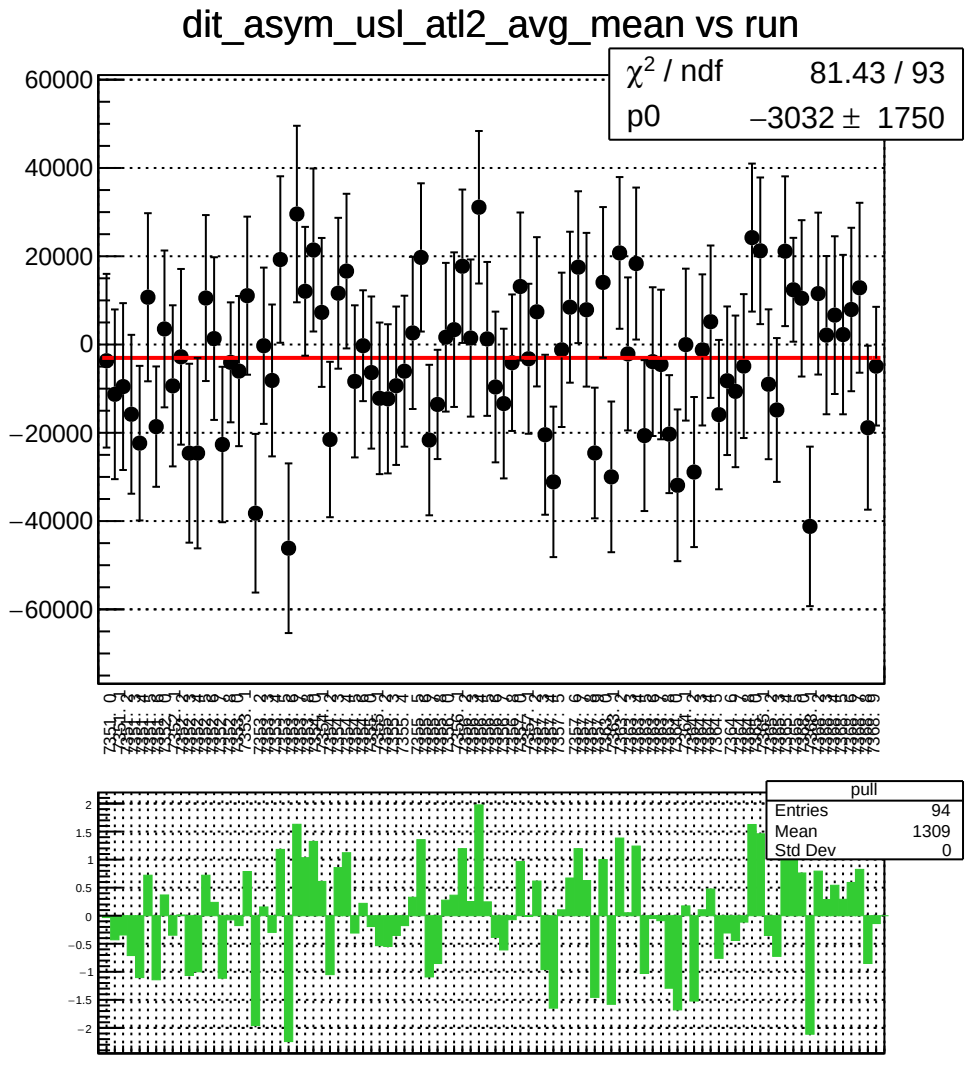

eigen_cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 94.58 / 93
p0 −4075 ± 1466
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 4123
Std Dev 0
2
1
0
−1
−2

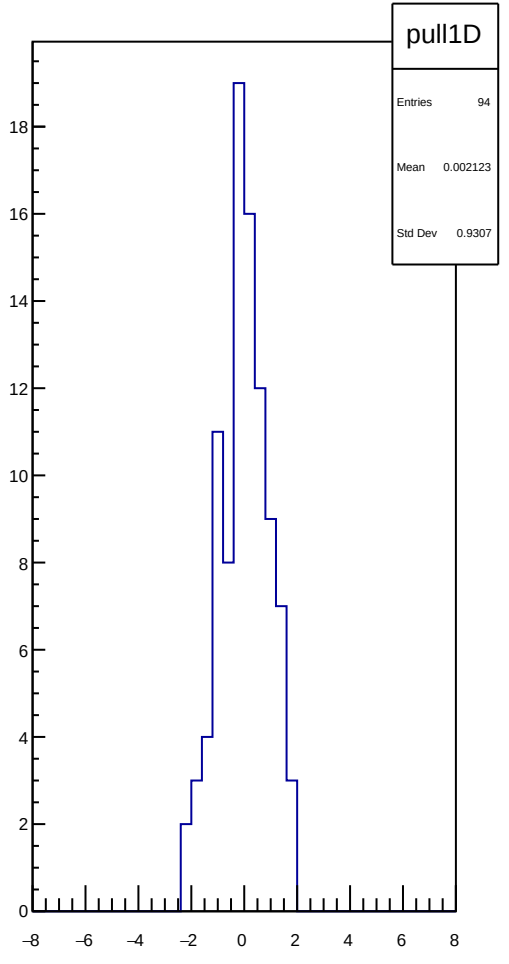

pull1D
Entries 94
Mean 0.0008551
Std Dev 1.003
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

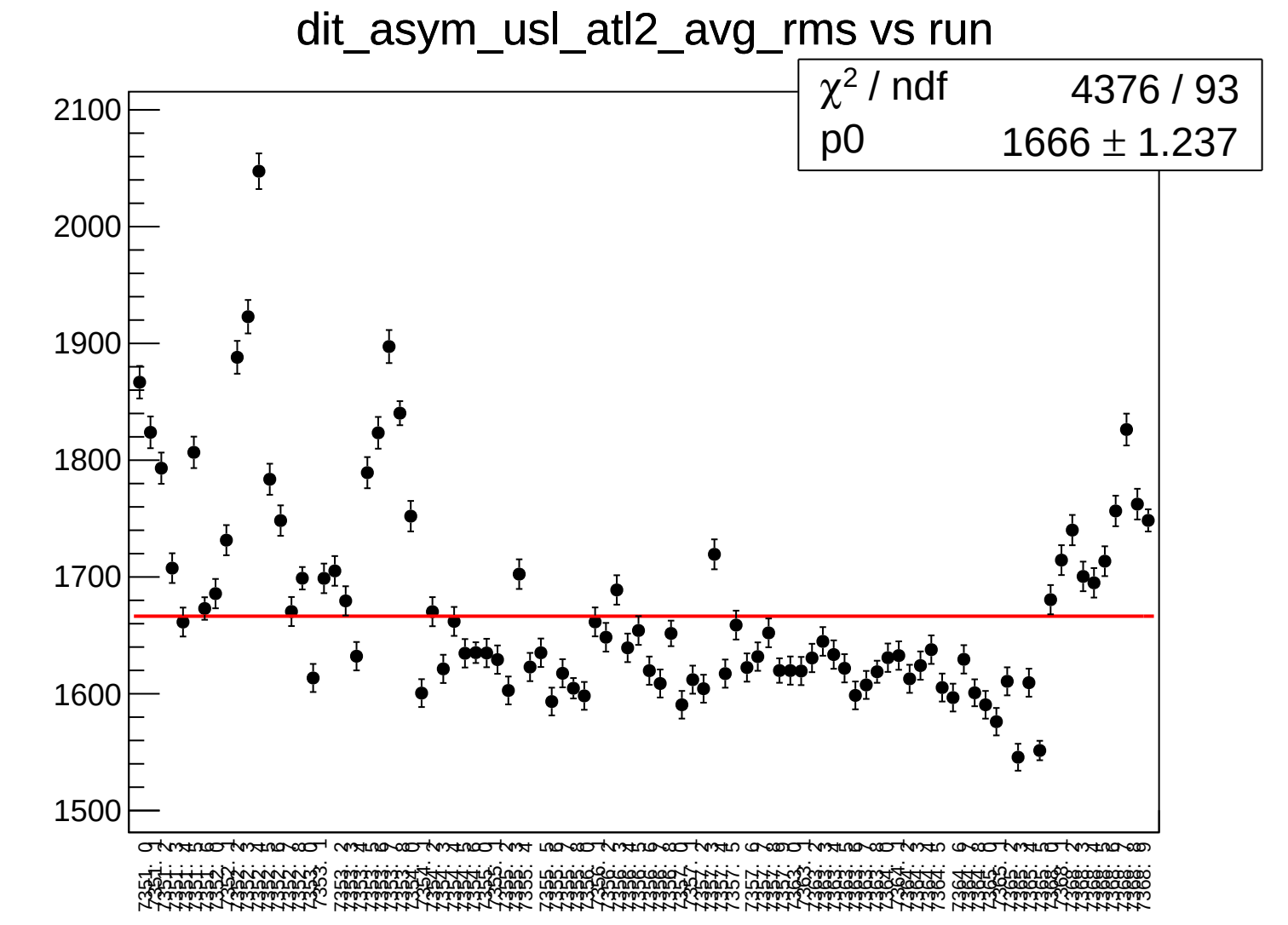

eigen_cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 385.9 / 93
p0 1398 ± 1.037
1440
1420
1400
1380
1360
1340
1320

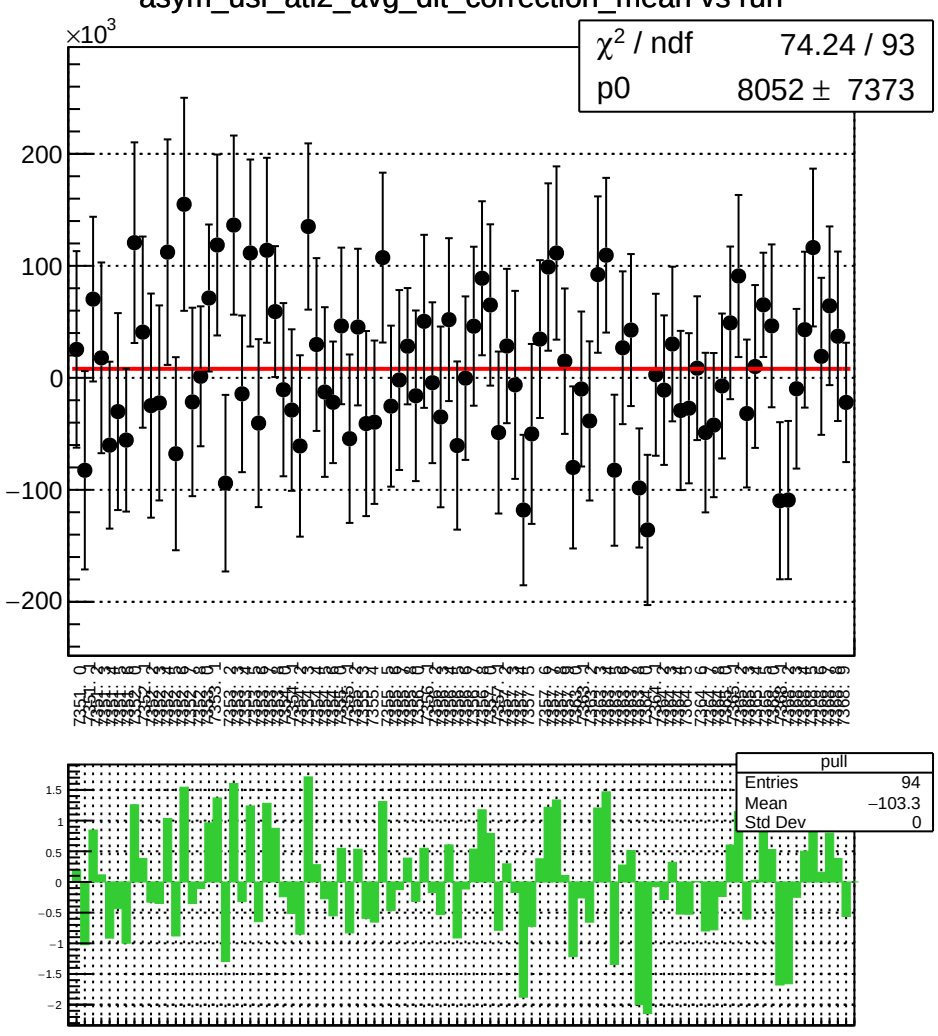

asym_usl_atl2_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 77.2 / 93
p0 7220 ± 6540
pull
Entries 94
Mean −124
Std Dev 0
pull1D
Entries 94
Mean 0.01285
Std Dev 0.9062

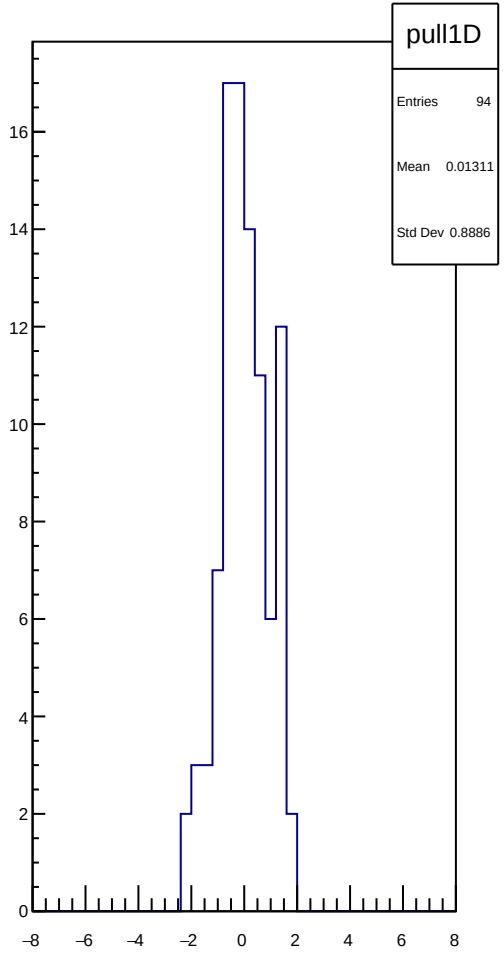

asym_usl_atl2_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.503e+04 / 93
p0 6211 ± 4.624
9000
8500
8000
7500
7000
6500
6000
5500

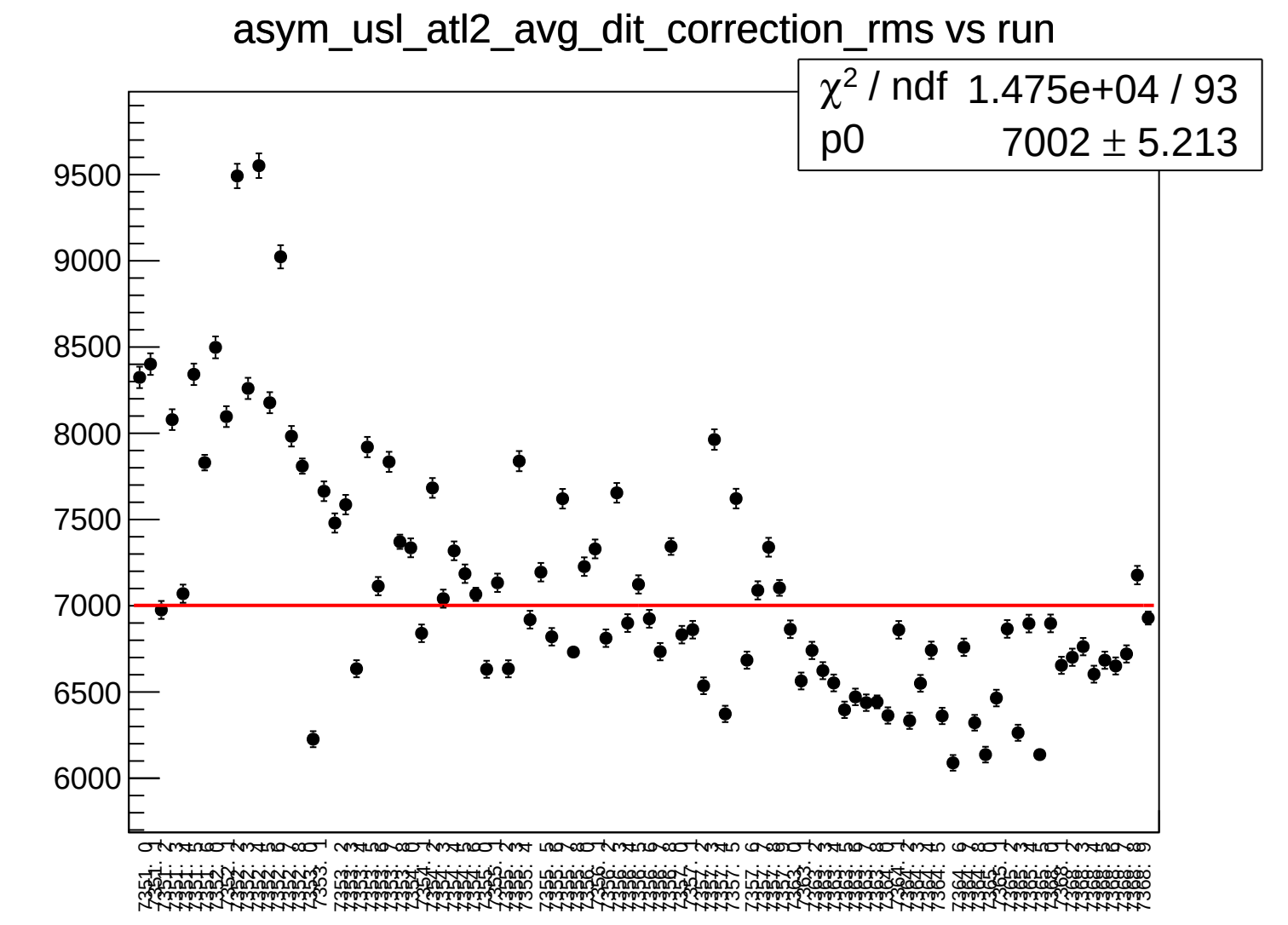

dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 81.43 / 93
p0 −3032 ± 1750
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 1309
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

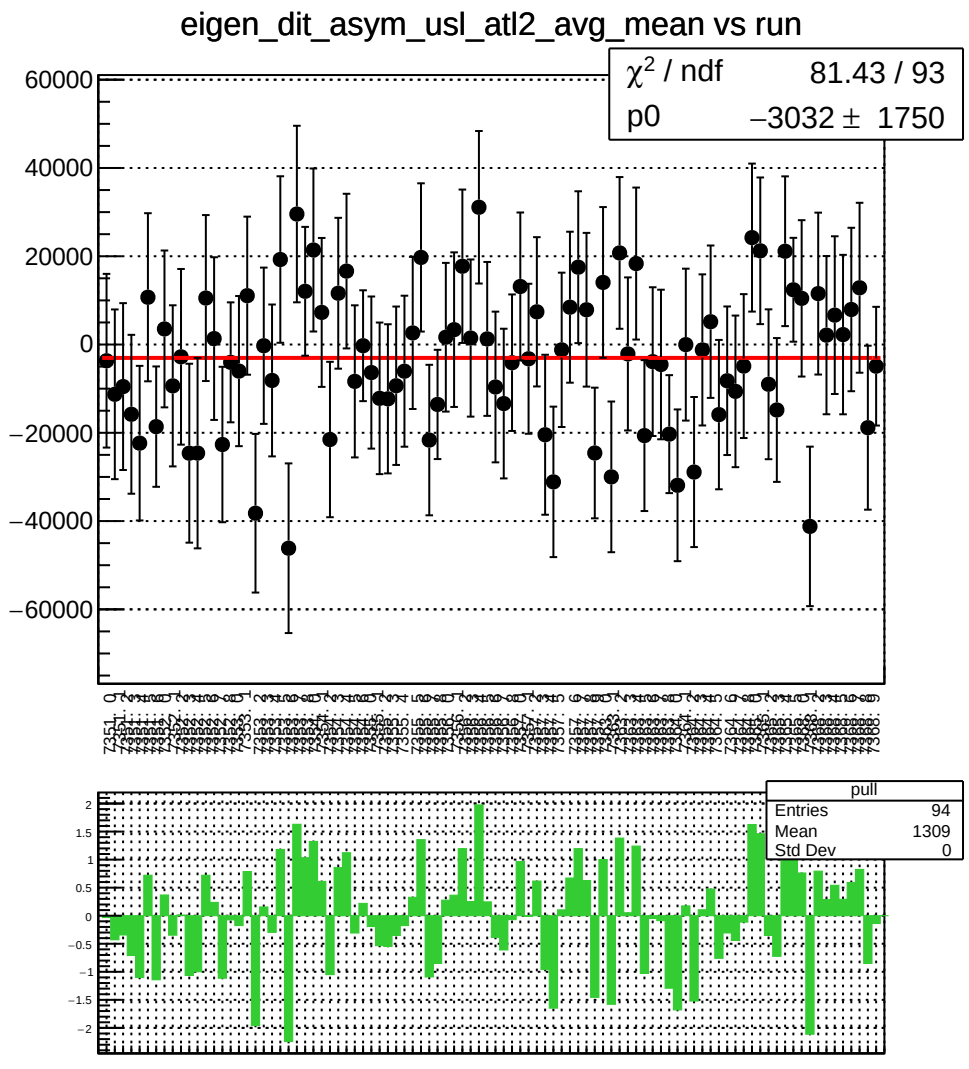

pull1D
Entries 94
Mean 0.002123
Std Dev 0.9307
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

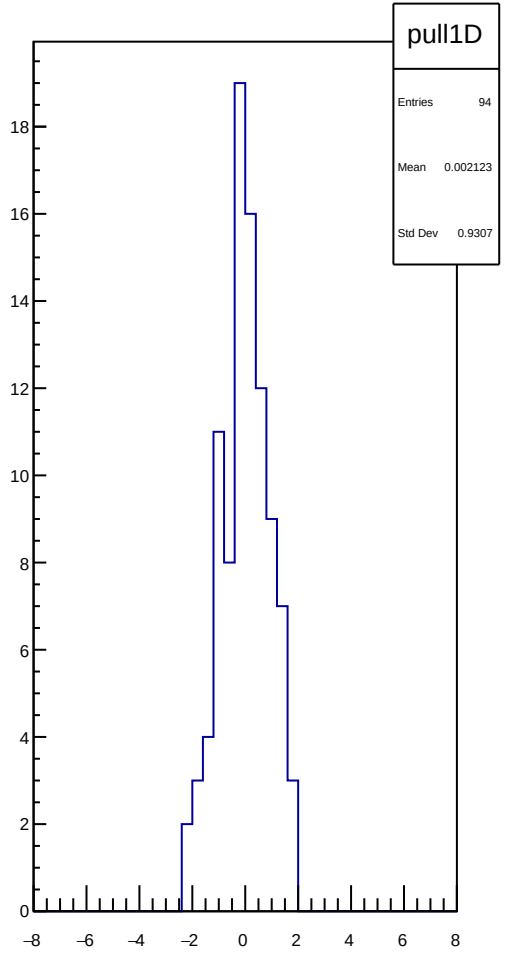

dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 4376 / 93
p0 1666 ± 1.237
2100
2000
1900
1800
1700
1600
1500

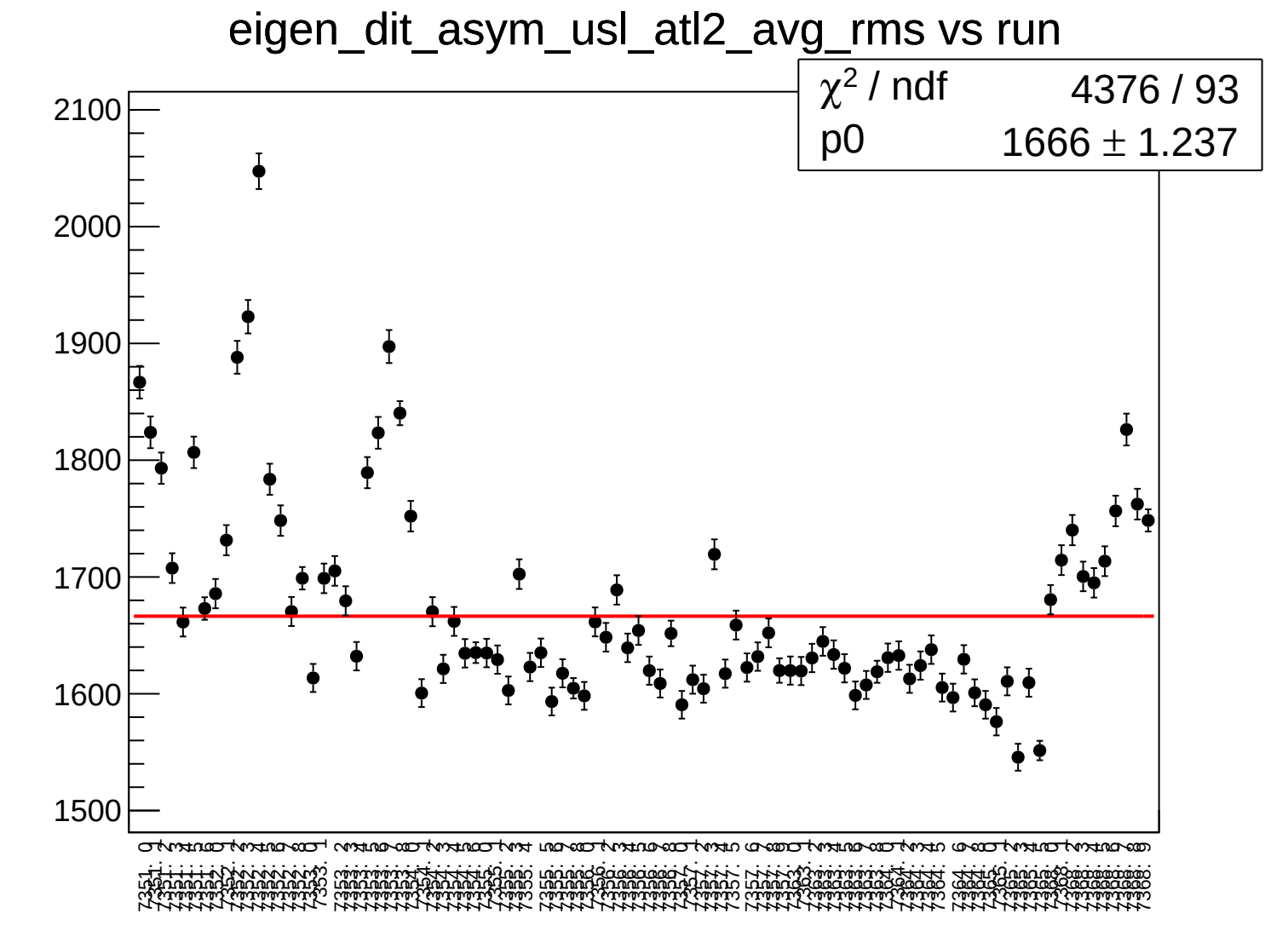

asym_usl_atl2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 74.24 / 93
p0 8052 ± 7373
200
100
0
−100
−200
pull
Entries 94
Mean −103.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

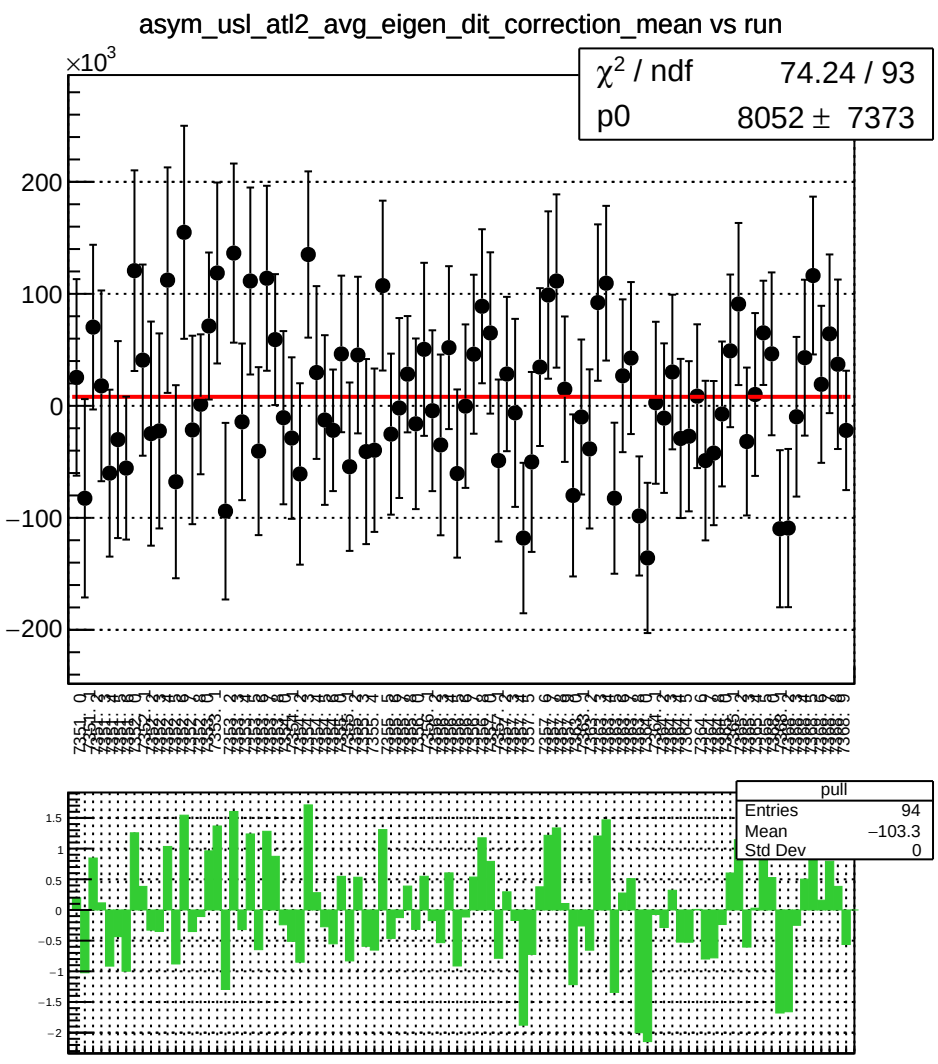

pull1D
Entries 94
Mean 0.01311
Std Dev 0.8886
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

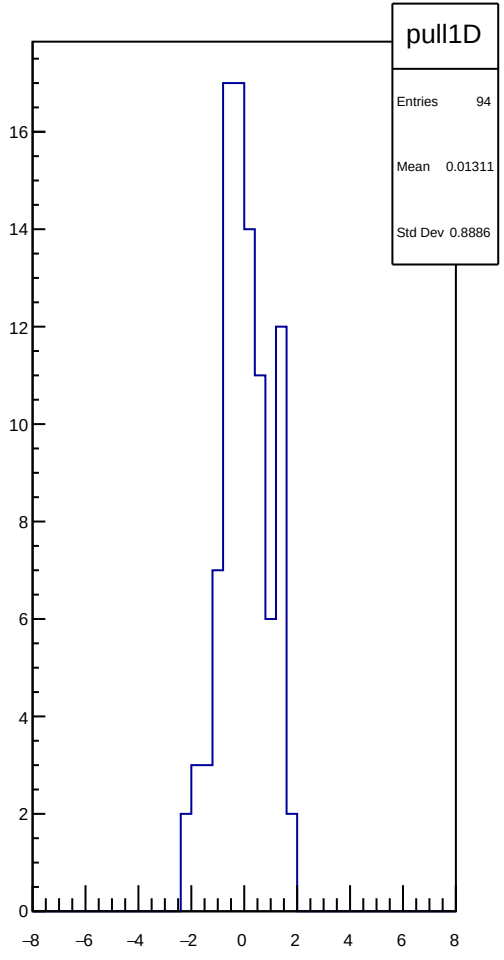

asym_usl_atl2_avg_dit_correction_rms vs run
χ² / ndf 1.475e+04 / 93
p0 7002 ± 5.213
9500
9000
8500
8000
7500
7000
6500
6000

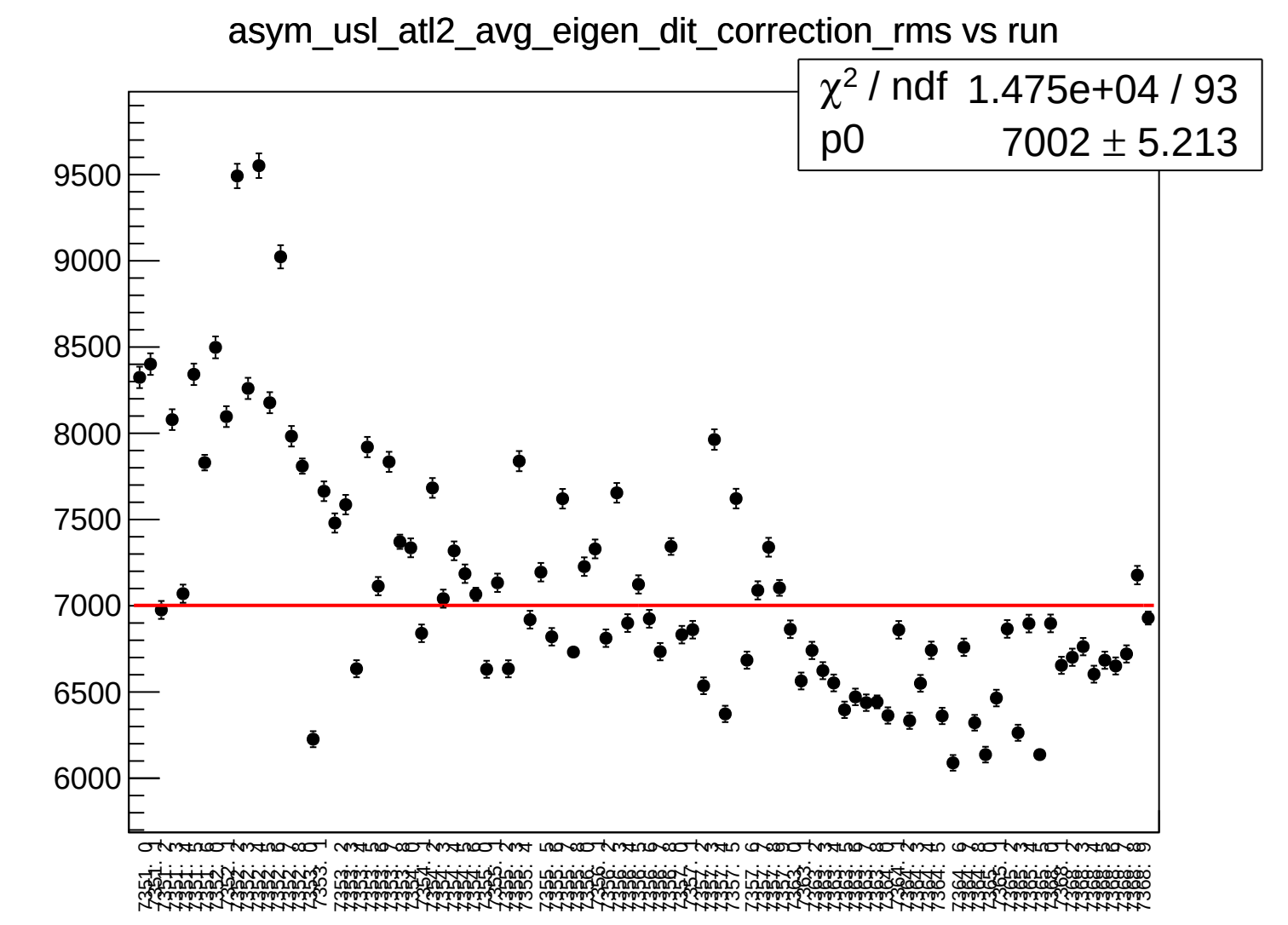

eigen_dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 81.43 / 93
p0 −3032 ± 1750
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 1309
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

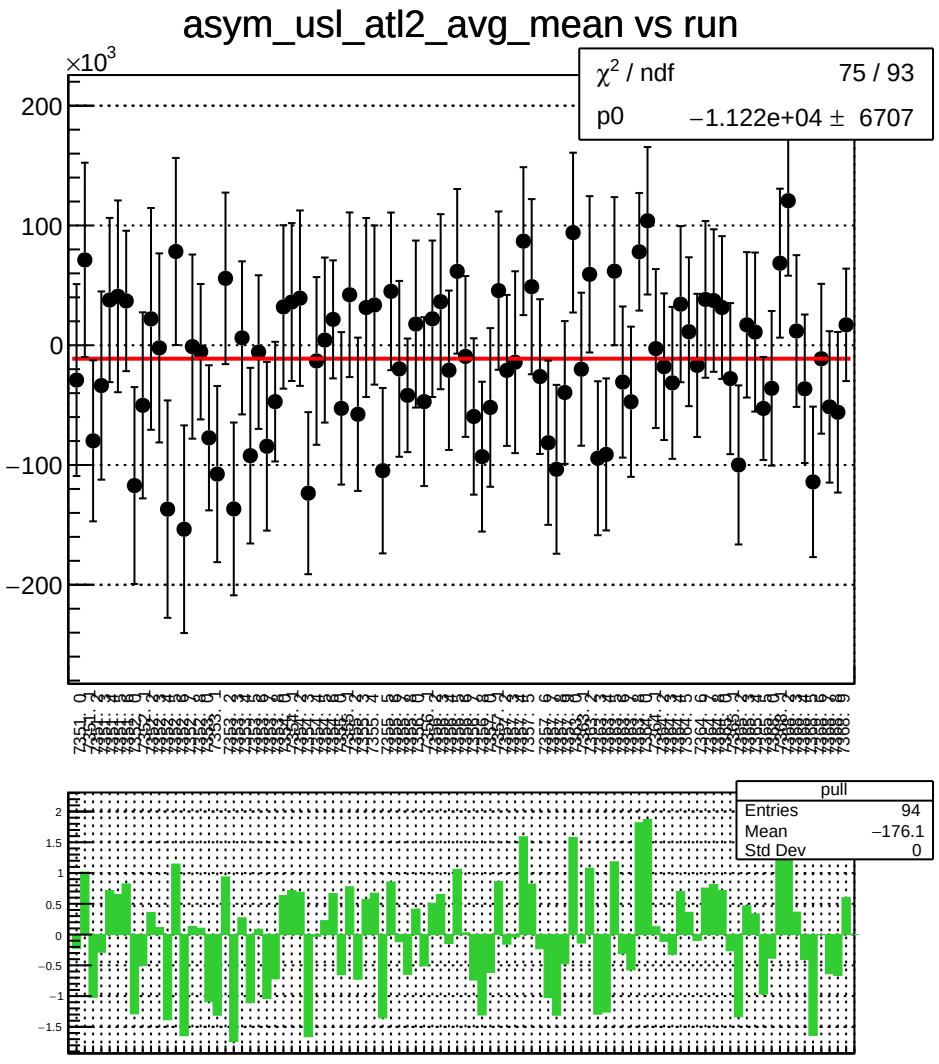

pull1D
Entries 94
Mean 0.002123
Std Dev 0.9307
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

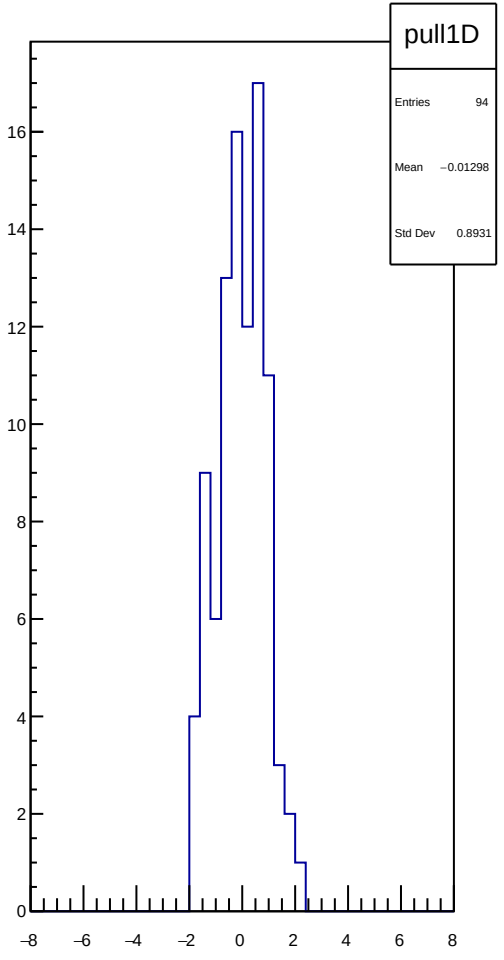

eigen_dit_asym_usl_atl2_avg_rms vs run
χ^2 / ndf 4376 / 93
p0 1666 ± 1.237
2100
2000
1900
1800
1700
1600
1500

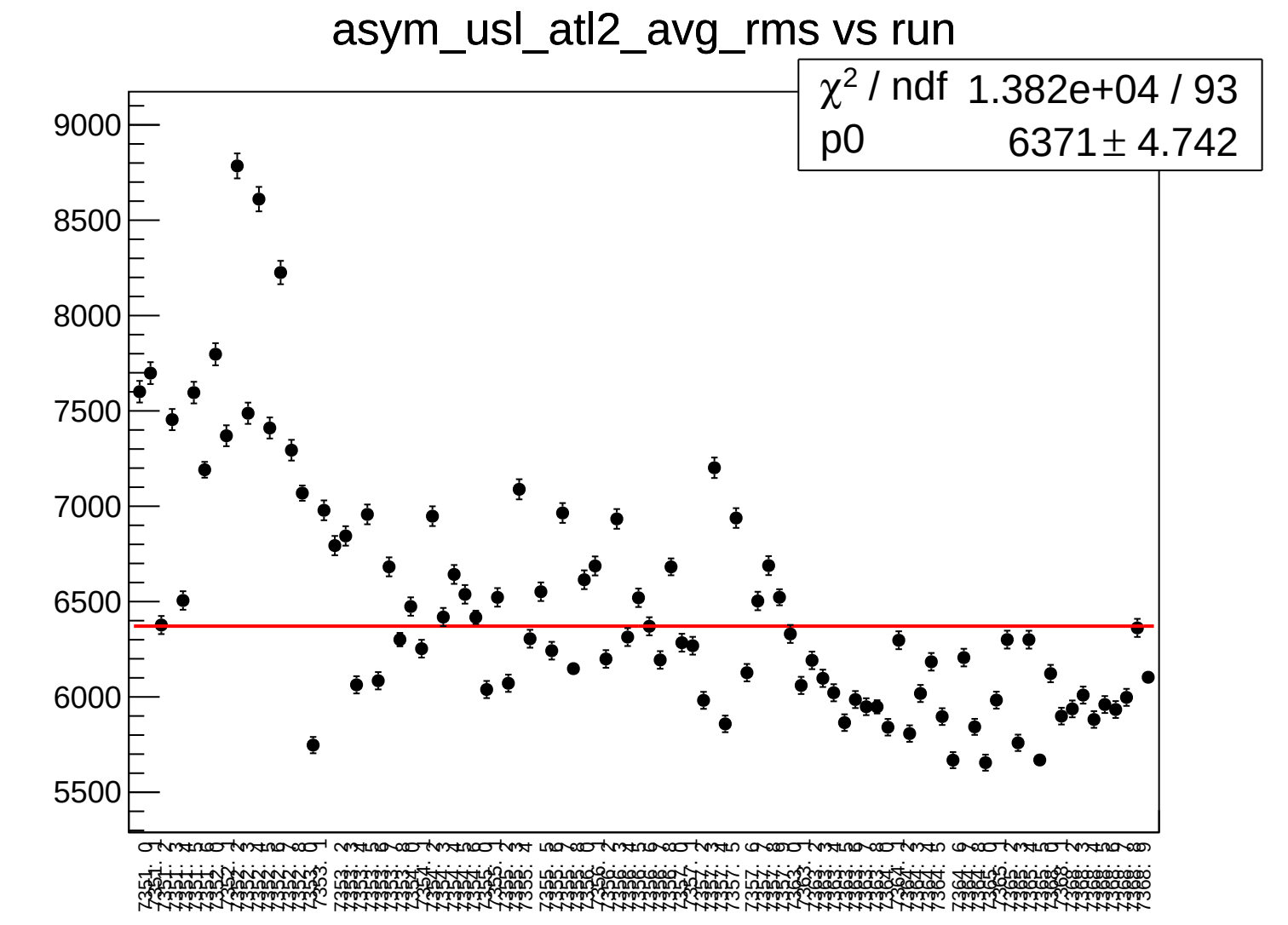

asym_usl_atl2_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 74.24 / 93
p0 8052 ± 7373
200
100
0
−100
−200
pull
Entries 94
Mean −103.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

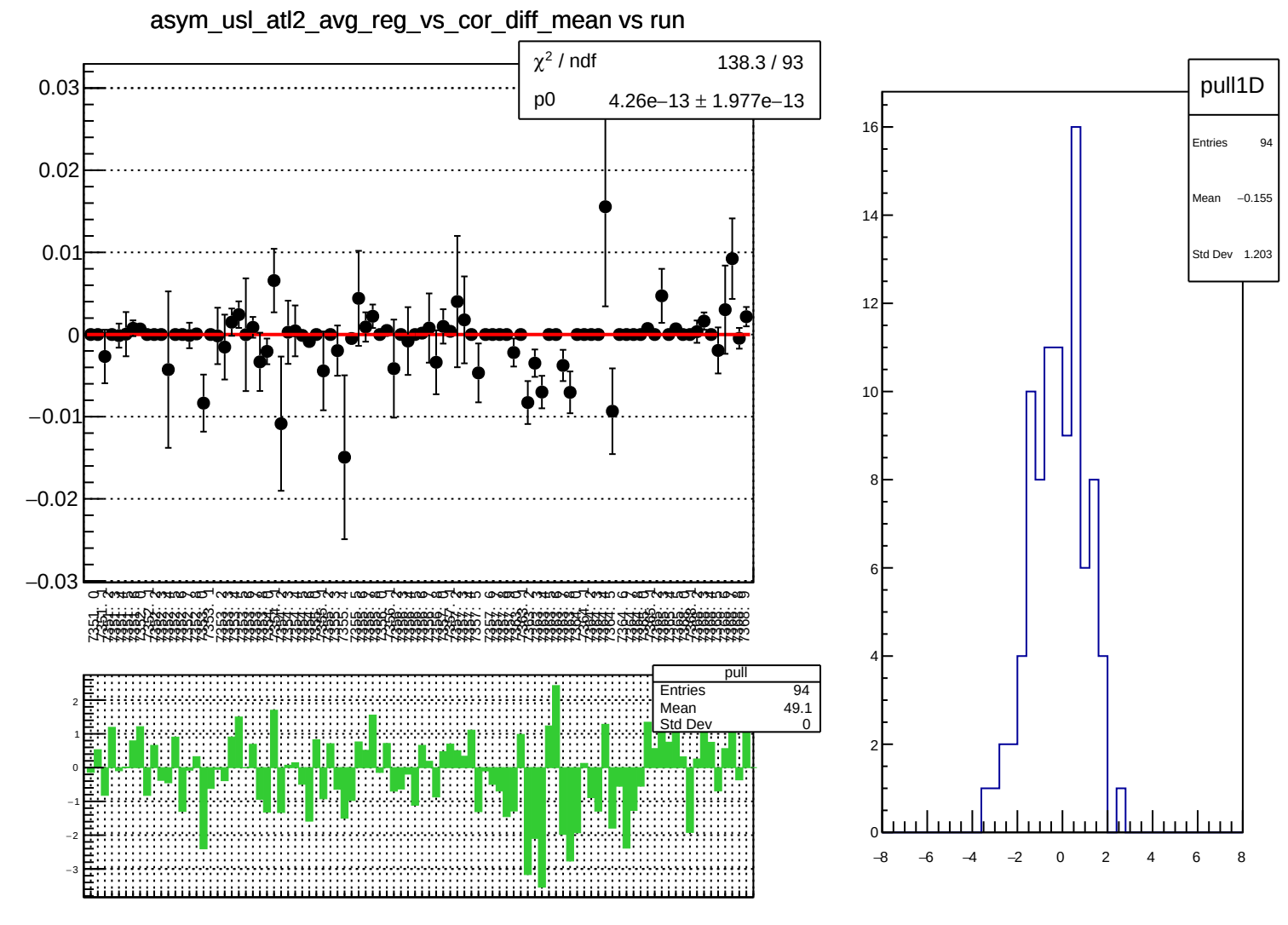

pull1D
Entries 94
Mean 0.01311
Std Dev 0.8886
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

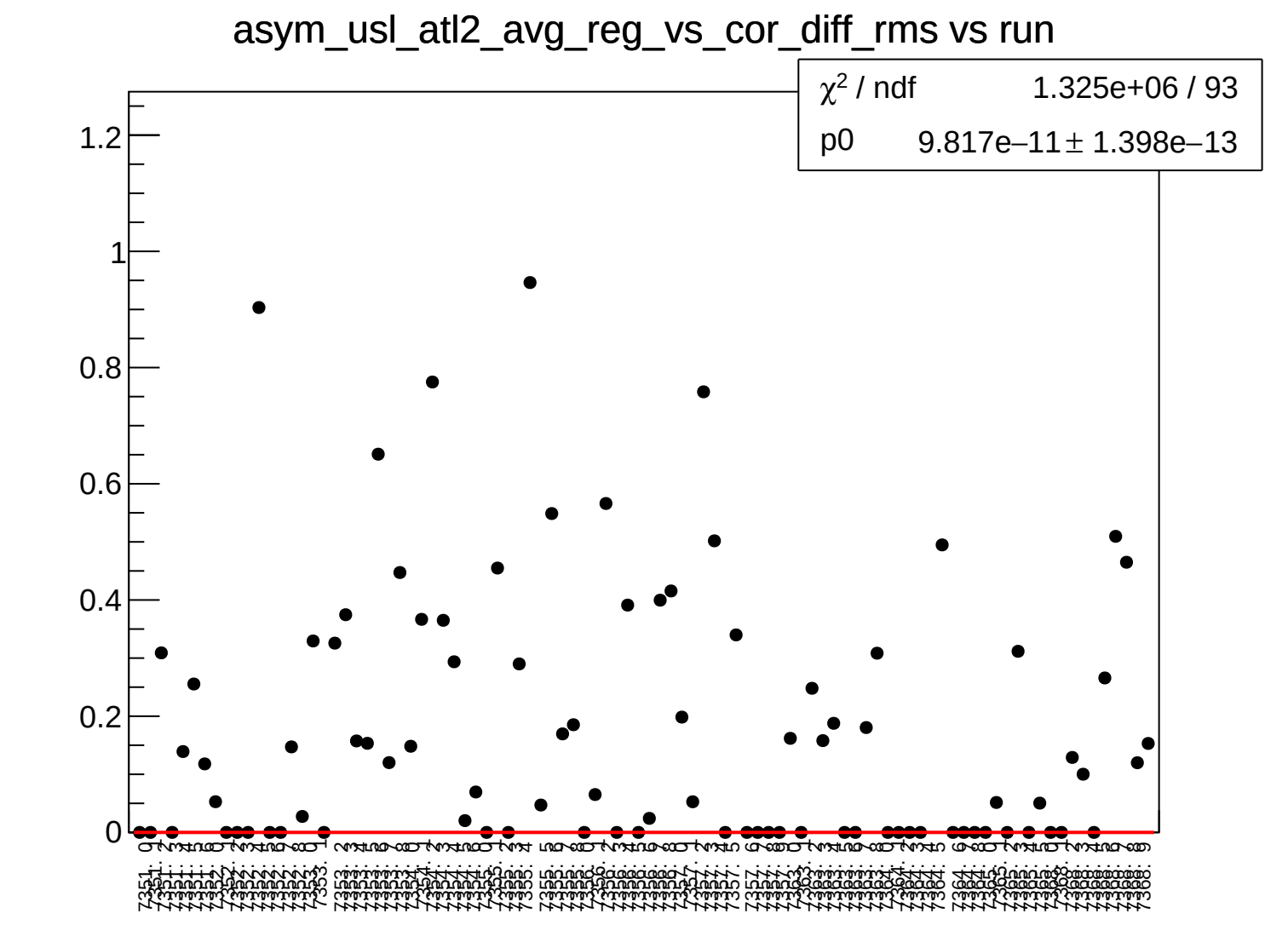

asym_usl_atl2_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.475e+04 / 93
p0 7002 ± 5.213
9500
9000
8500
8000
7500
7000
6500
6000

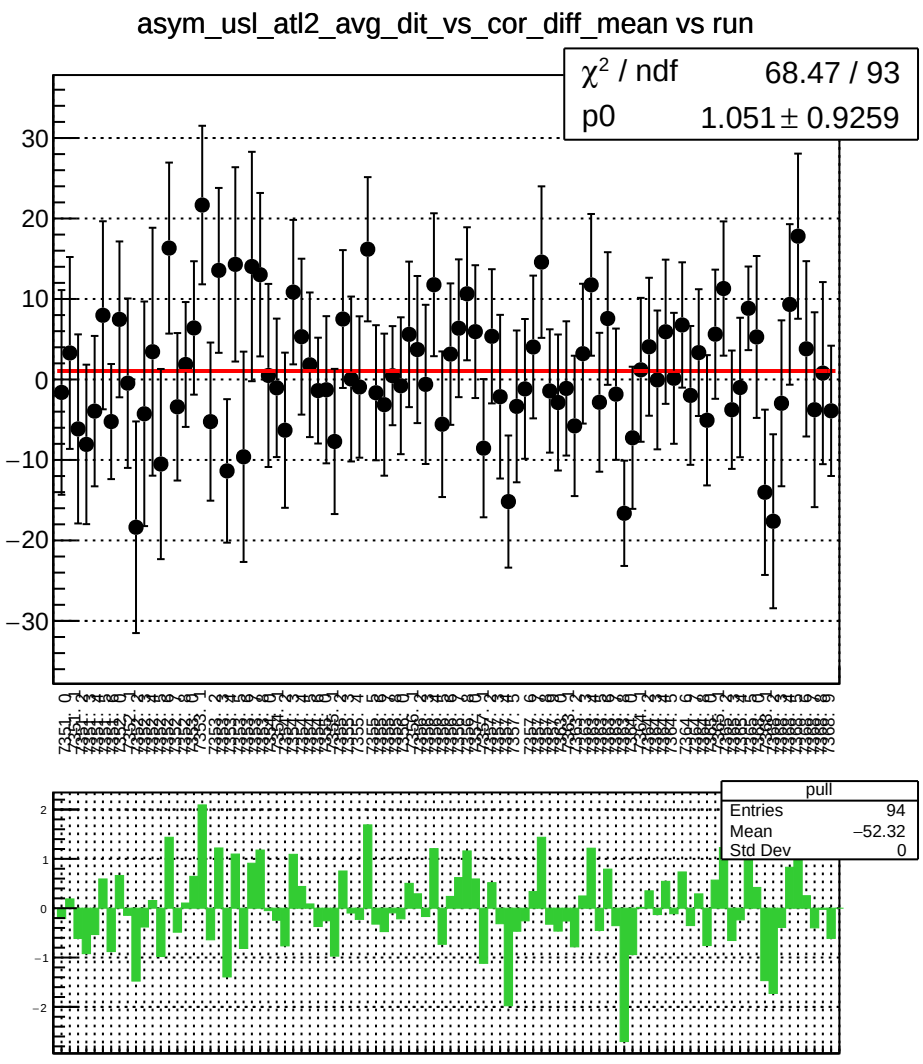

asym_usl_atl2_avg_mean vs run
×10^3
χ² / ndf 75 / 93
p0 −1.122e+04 ± 6707
200
100
0
−100
−200
pull
Entries 94
Mean −176.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

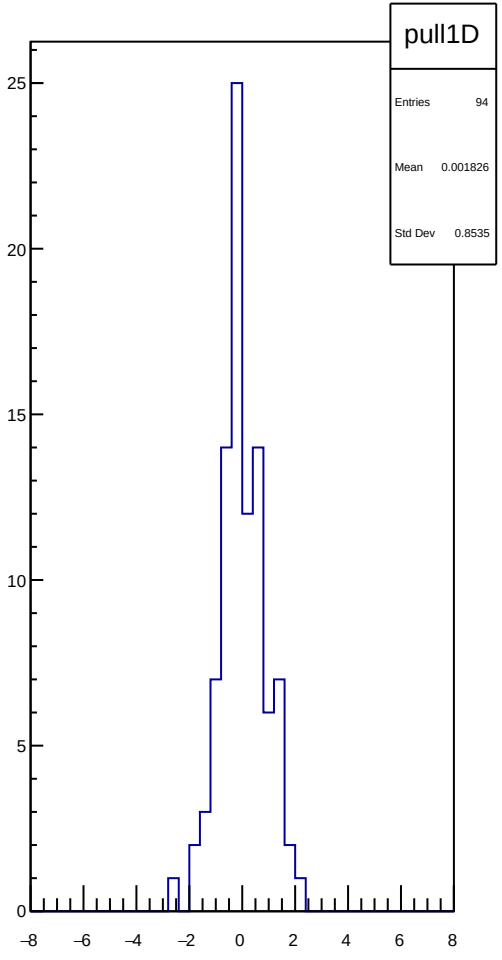

pull1D
Entries 94
Mean −0.01298
Std Dev 0.8931
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

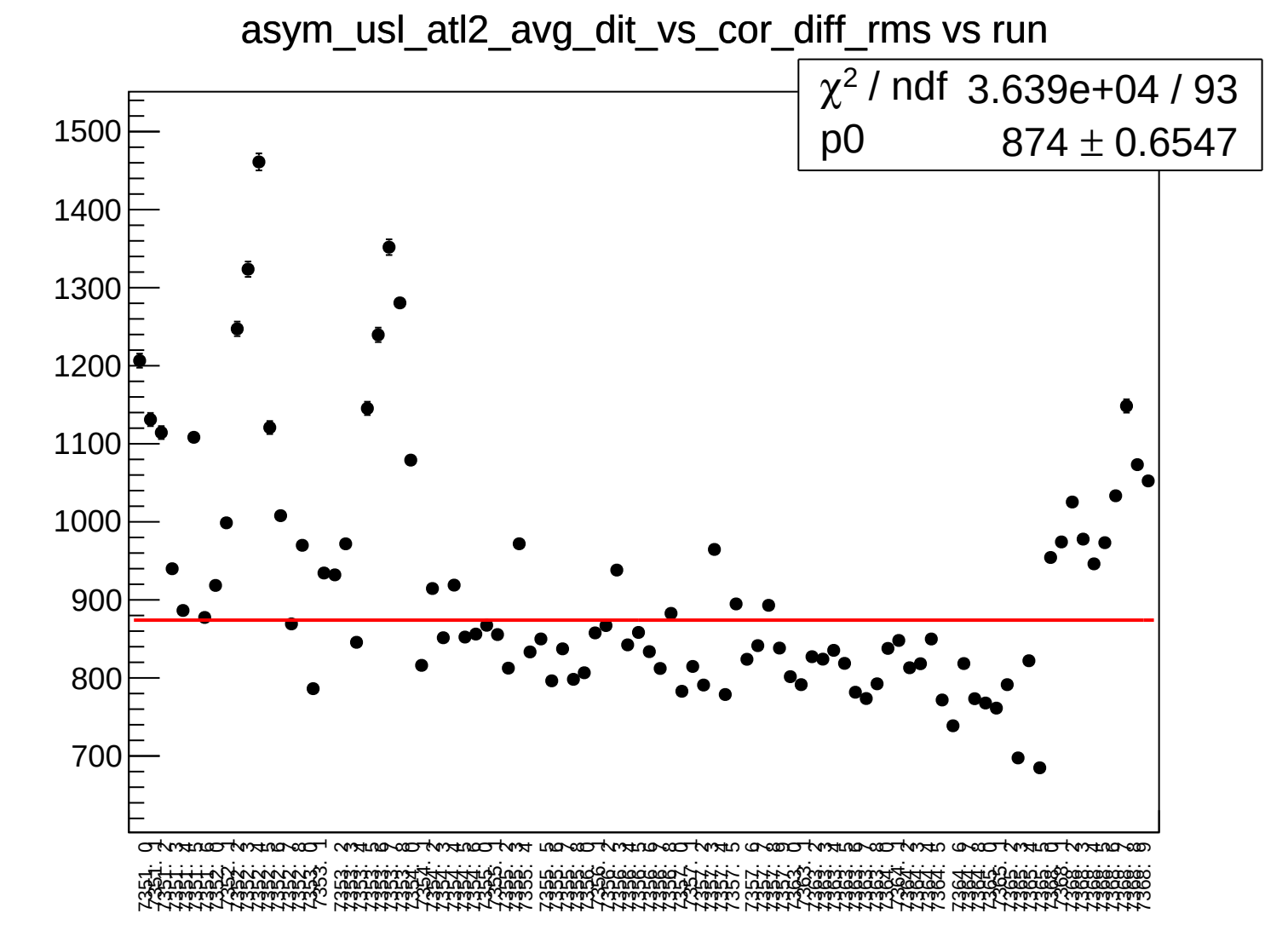

asym_usl_atl2_avg_rms vs run
χ^2 / ndf 1.382e+04 / 93
p0 6371 ± 4.742
9000
8500
8000
7500
7000
6500
6000
5500

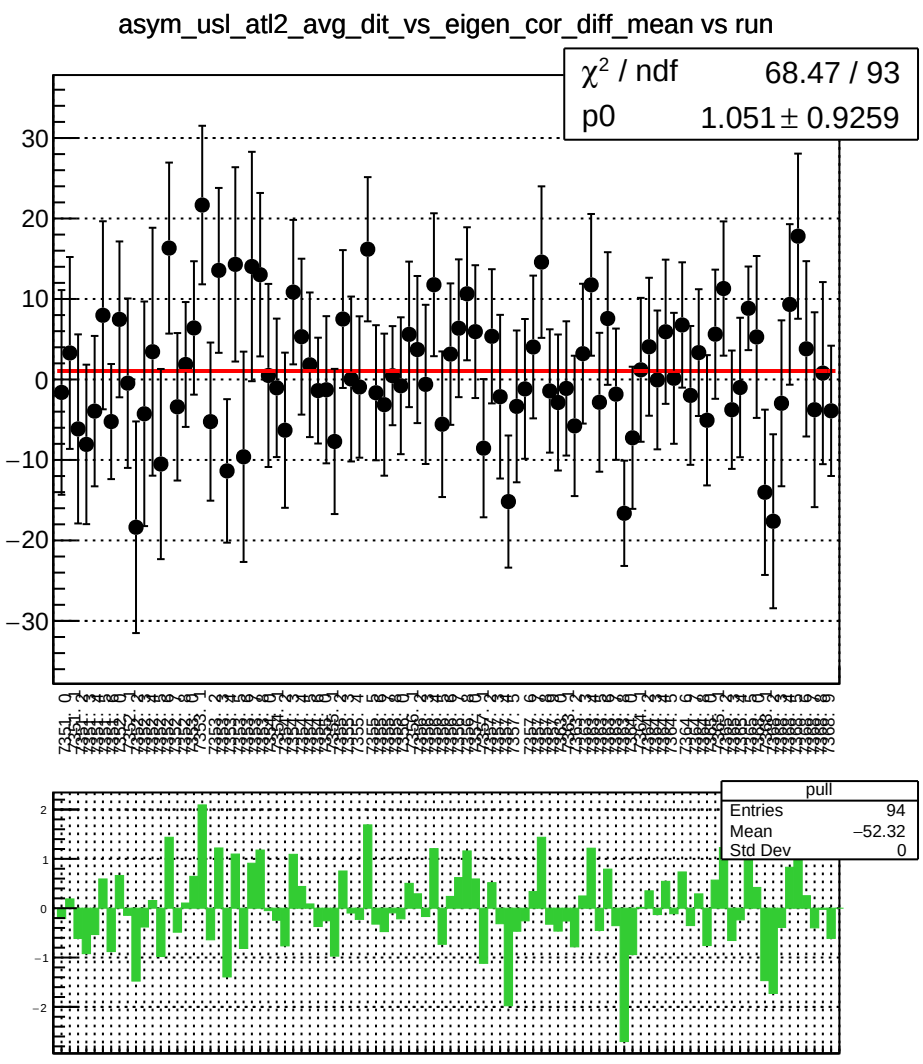

asym_usl_atl2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 138.3 / 93
p0 4.26e−13 ± 1.977e−13
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 94
Mean 49.1
Std Dev 0
pull1D
Entries 94
Mean −0.155
Std Dev 1.203

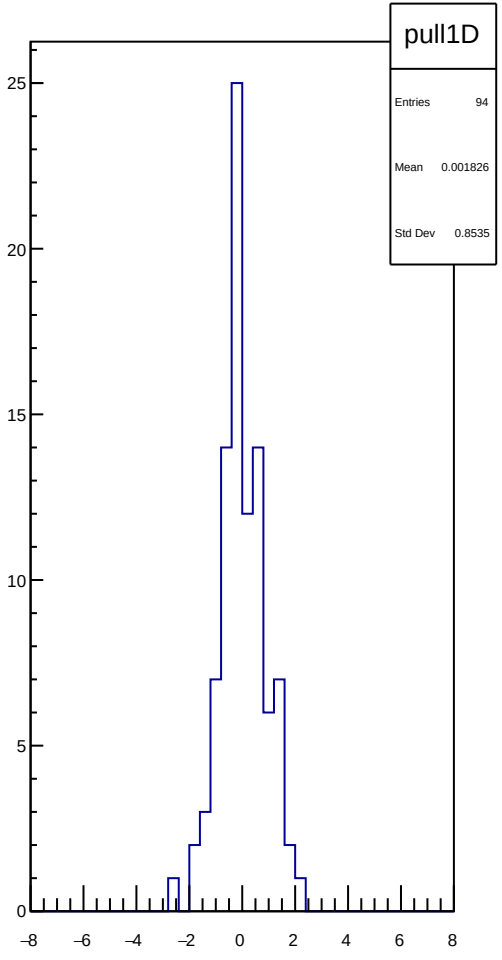

asym_usl_atl2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.325e+06 / 93
p0 9.817e−11 ± 1.398e−13
1.2
1
0.8
0.6
0.4
0.2
0

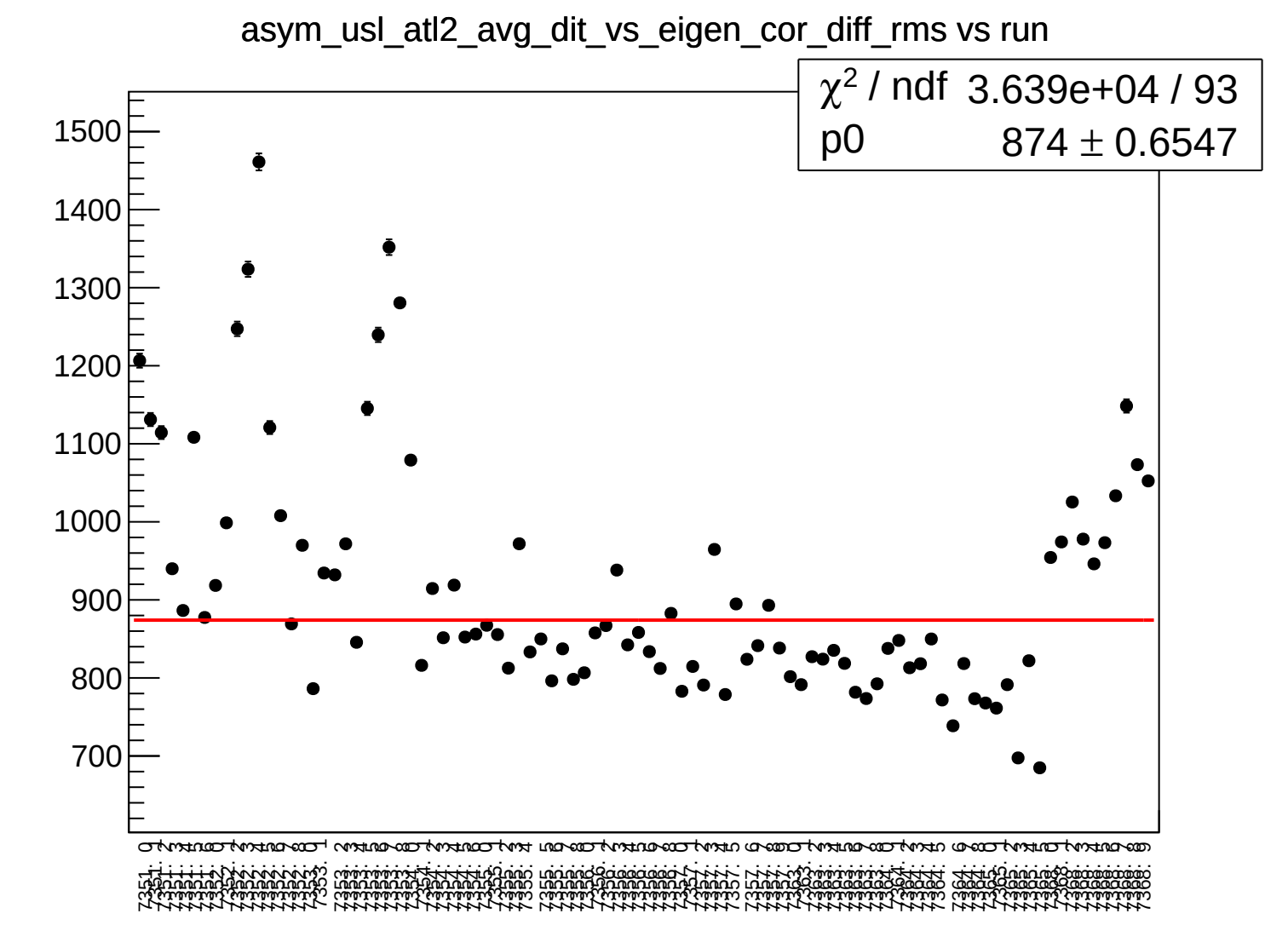

asym_usl_atl2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 68.47 / 93
p0 1.051 ± 0.9259
pull
Entries 94
Mean −52.32
Std Dev 0

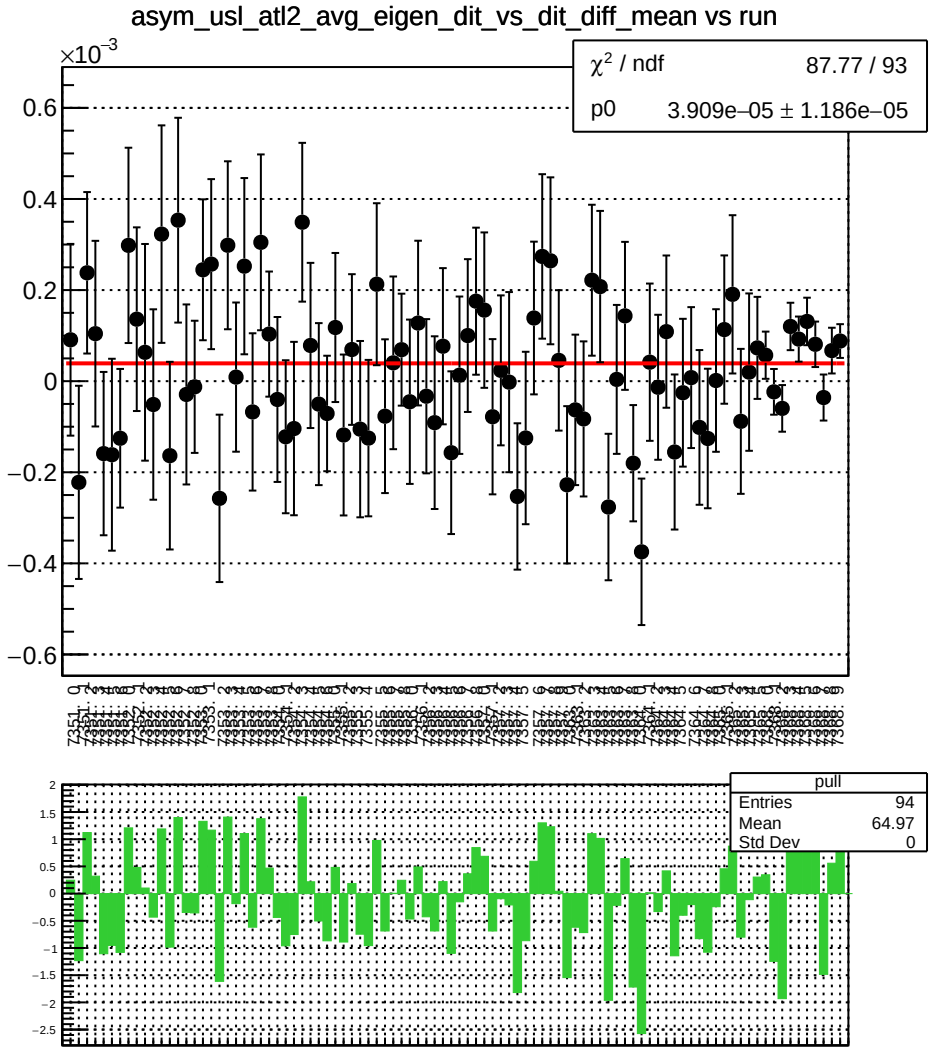

pull1D
Entries 94
Mean 0.001826
Std Dev 0.8535

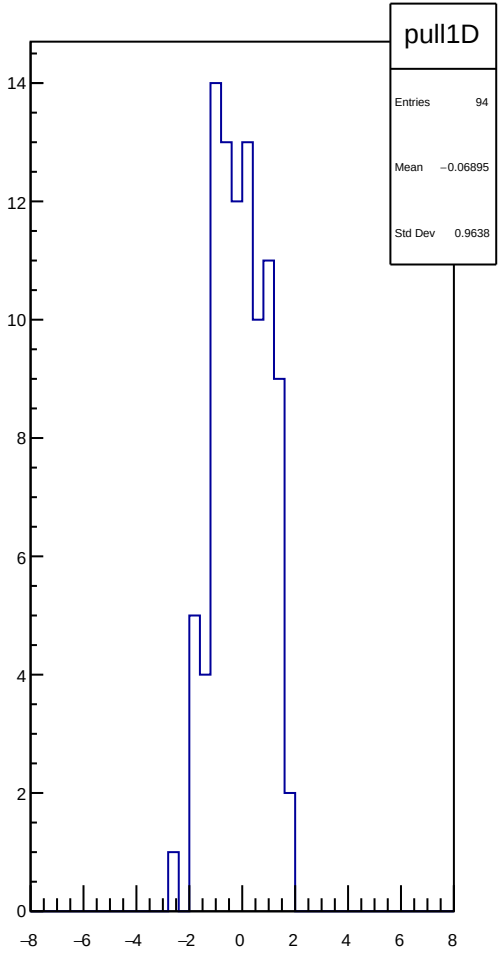

asym_usl_atl2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.639e+04 / 93
p0 874 ± 0.6547
1500
1400
1300
1200
1100
1000
900
800
700

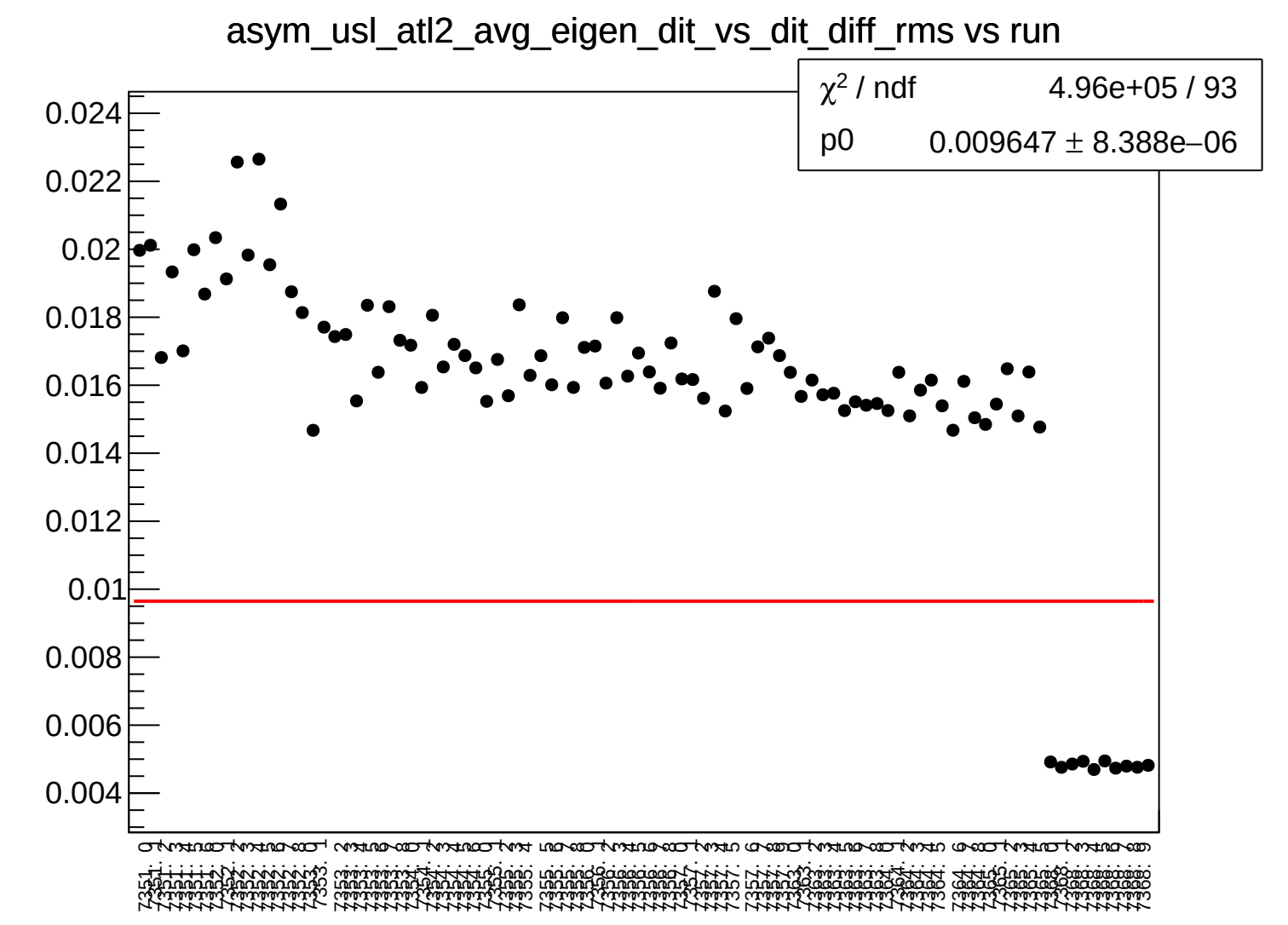

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.47 / 93
p0 1.051 ± 0.9259
pull
Entries 94
Mean −52.32
Std Dev 0

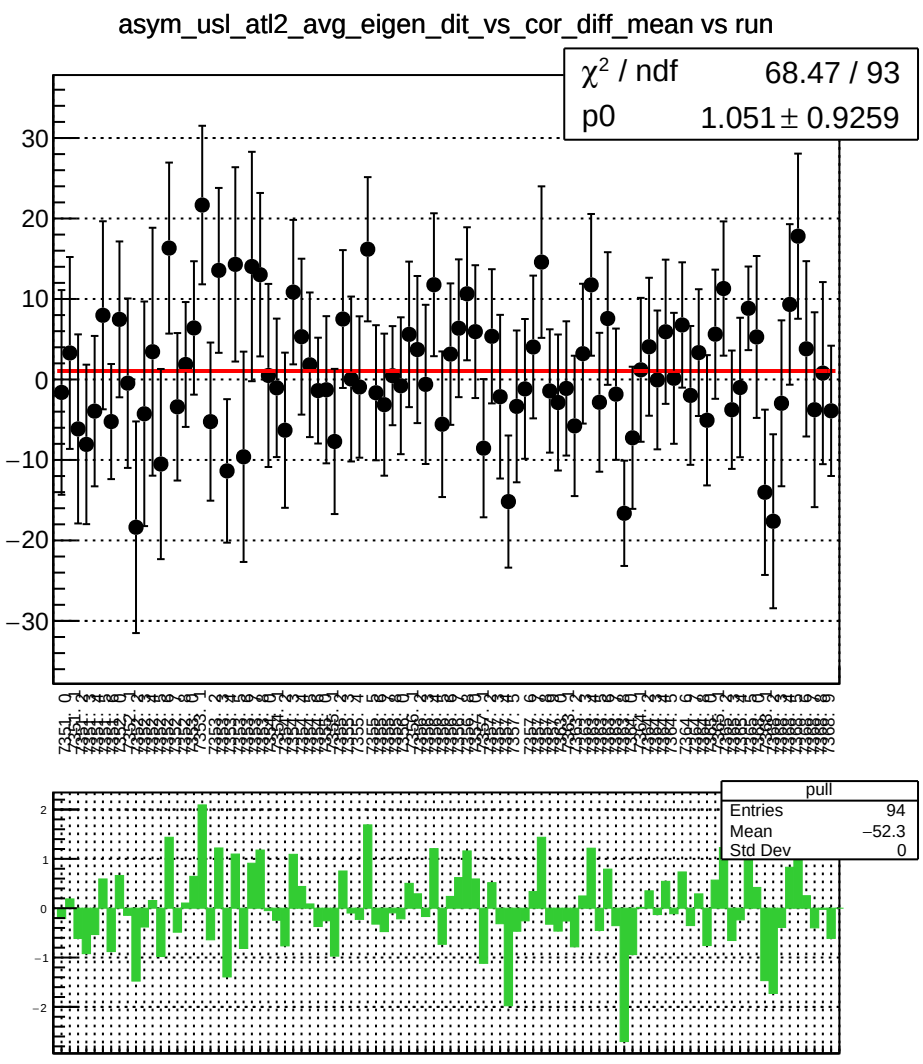

pull1D
Entries 94
Mean 0.001826
Std Dev 0.8535

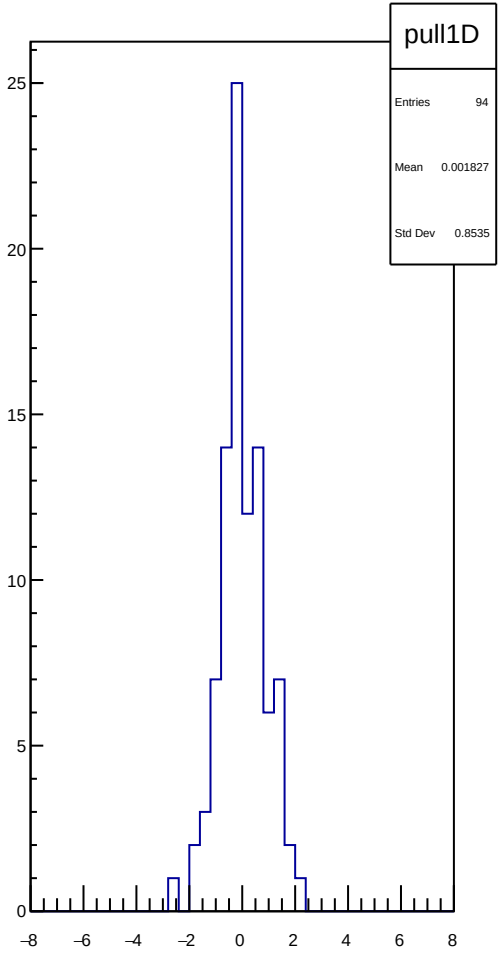

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.639e+04 / 93
p0 874 ± 0.6547
1500
1400
1300
1200
1100
1000
900
800
700

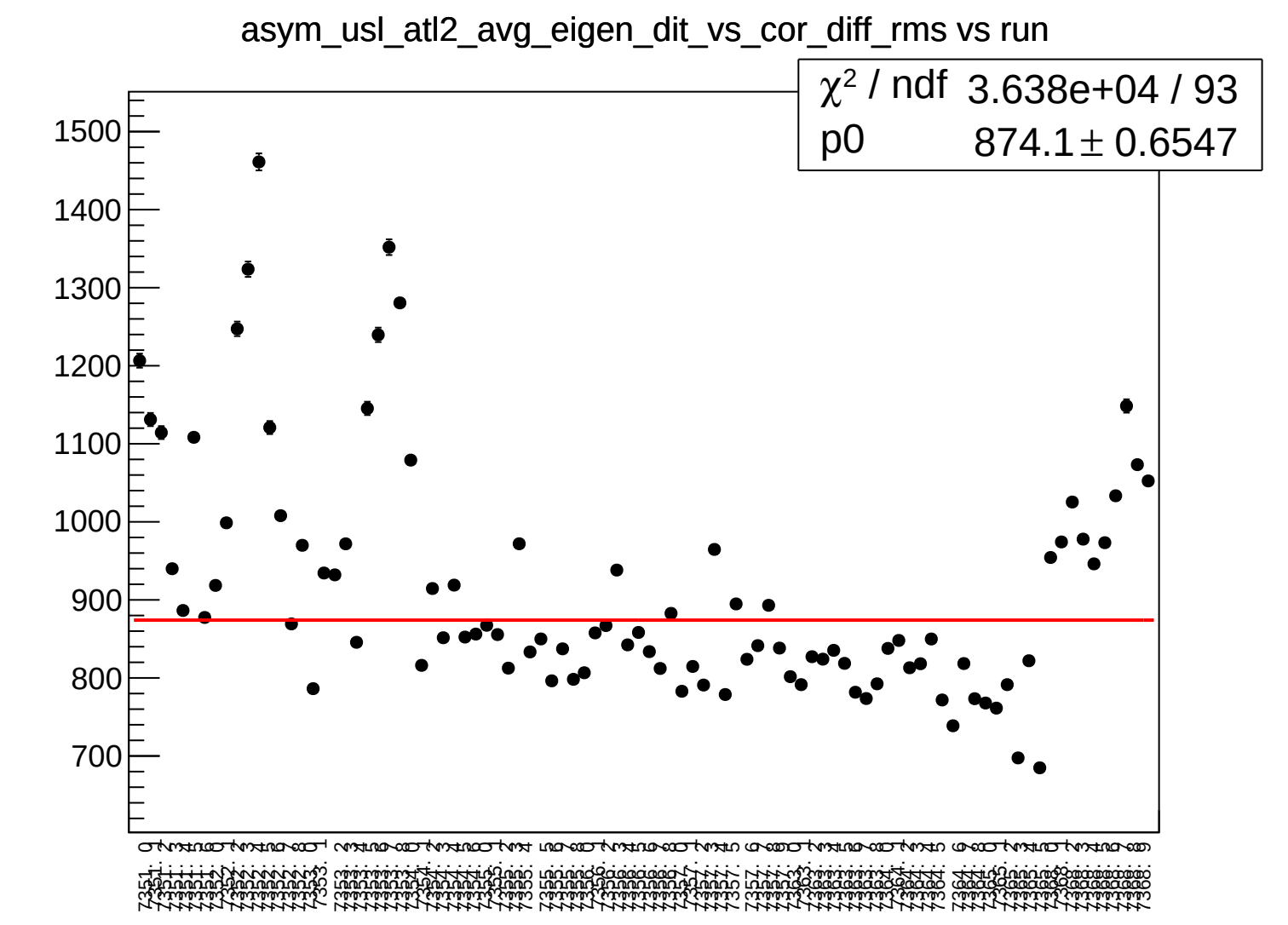

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.77 / 93
p0 3.909e−05 ± 1.186e−05
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 94
Mean 64.97
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

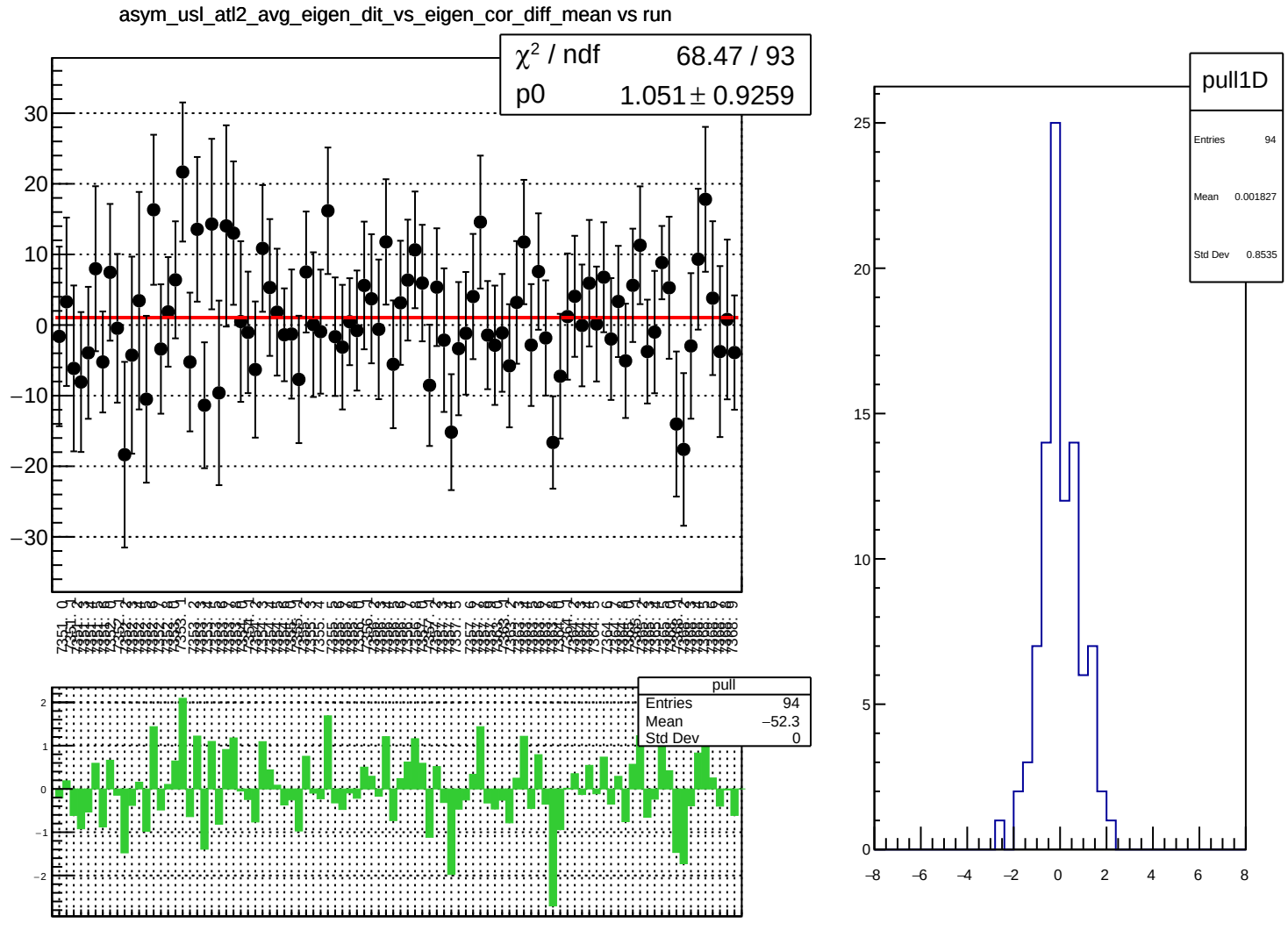

pull1D
Entries 94
Mean −0.06895
Std Dev 0.9638
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

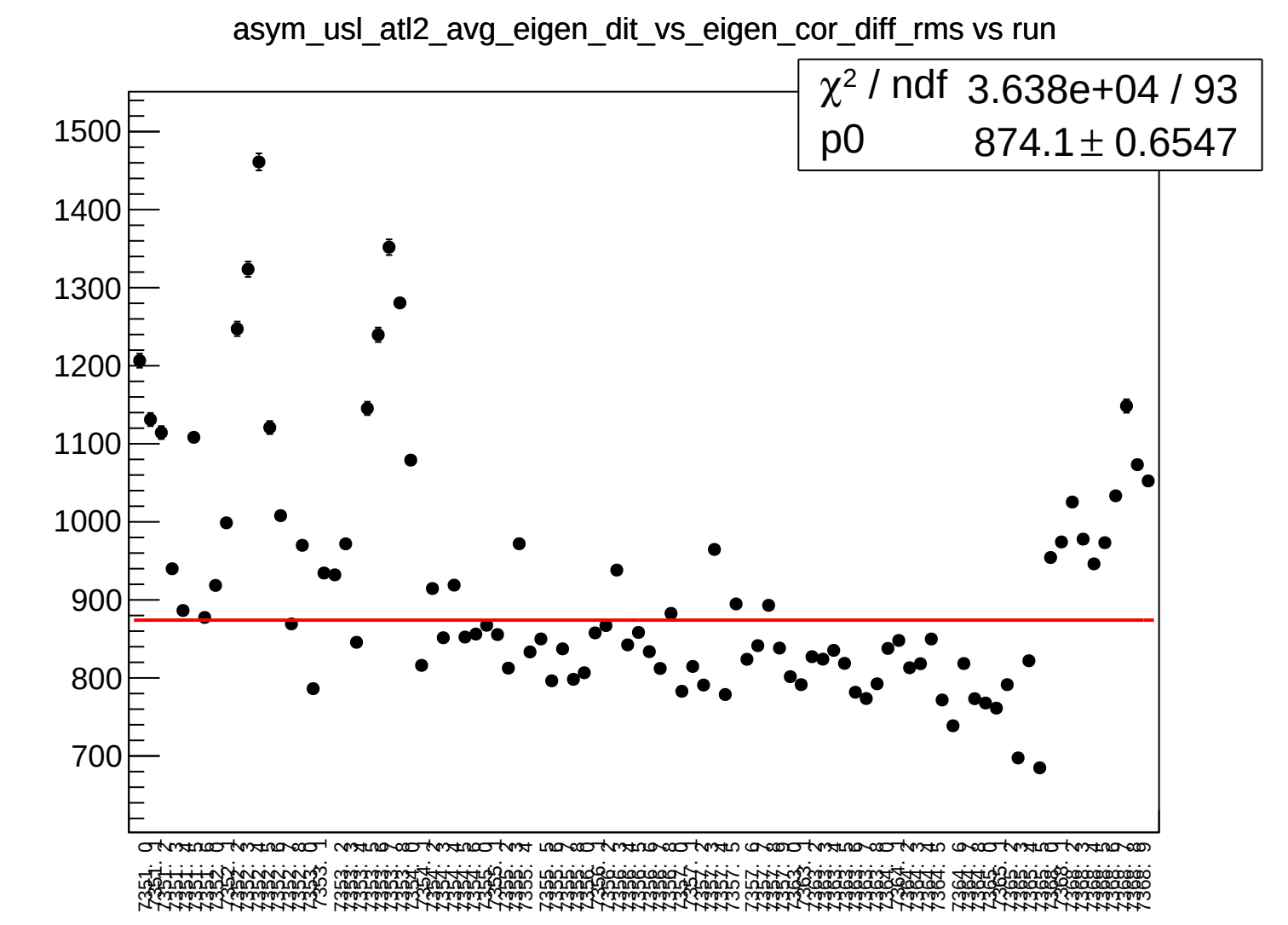

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.96e+05 / 93
p0 0.009647 ± 8.388e−06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

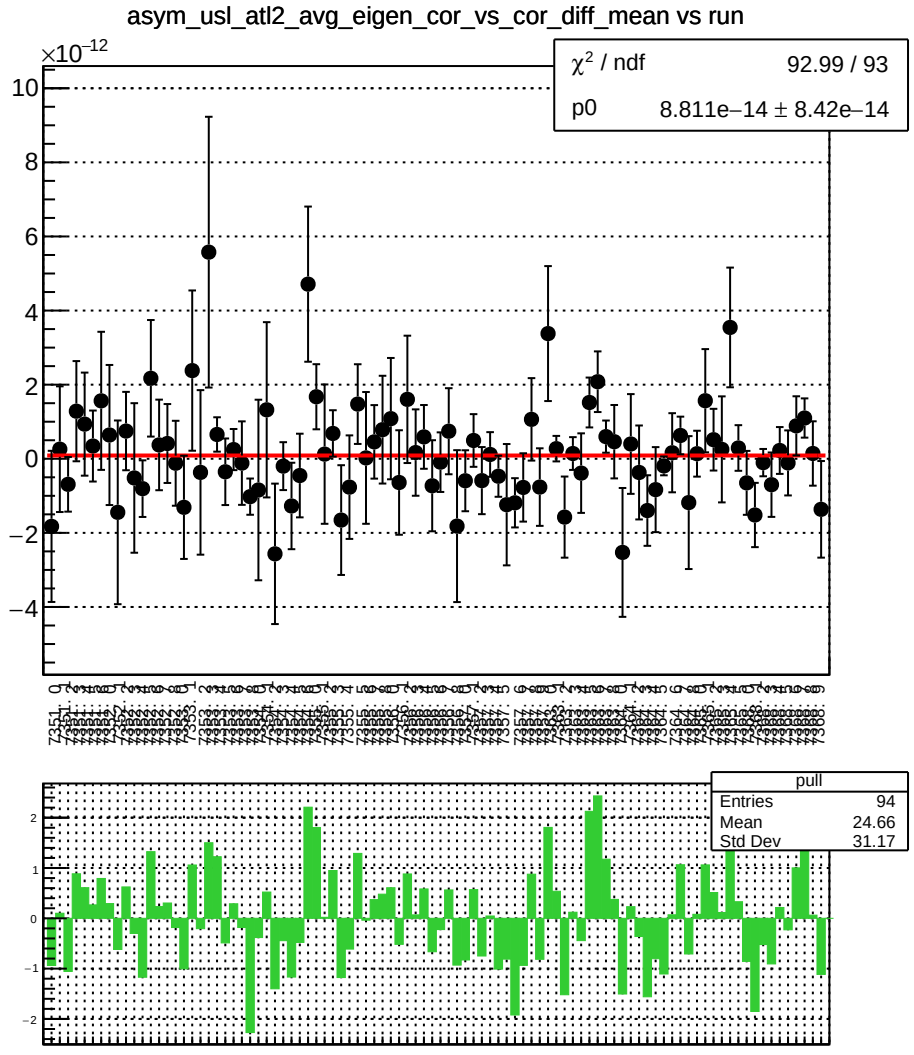

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 68.47 / 93
p0 1.051 ± 0.9259
30
20
10
0
−10
−20
−30
pull
Entries 94
Mean −52.3
Std Dev 0
2
1
0
−1
−2

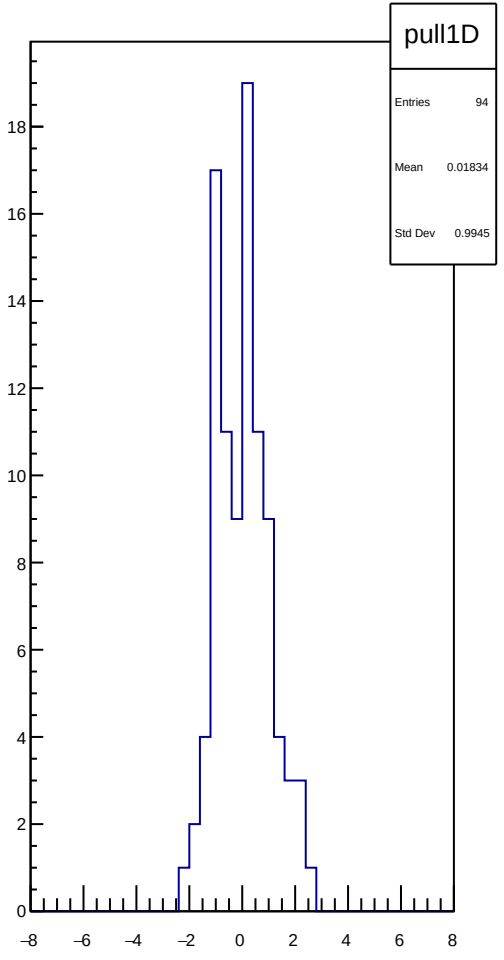

pull1D
Entries 94
Mean 0.001827
Std Dev 0.8535
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

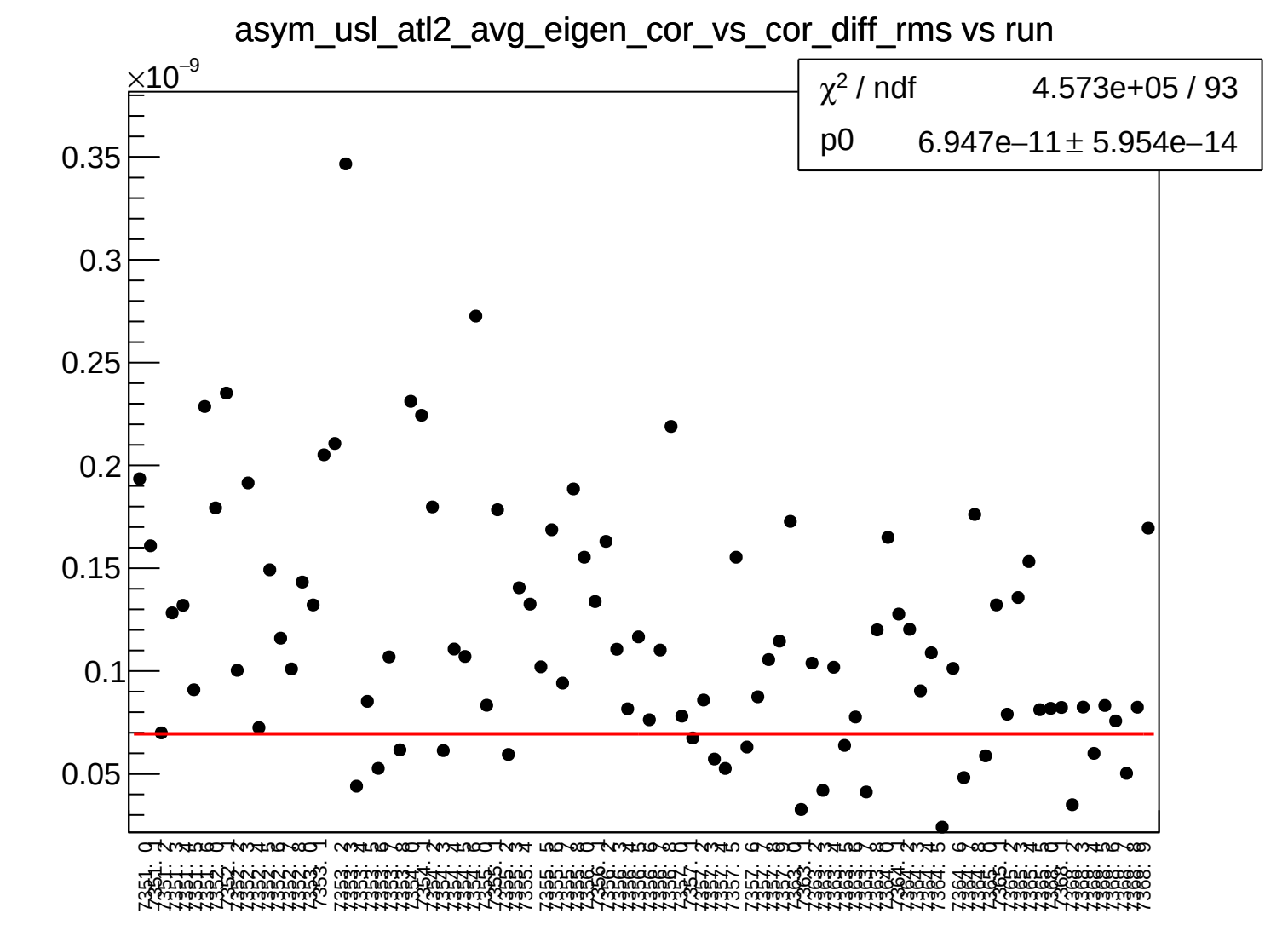

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.638e+04 / 93
p0 874.1 ± 0.6547
1500
1400
1300
1200
1100
1000
900
800
700

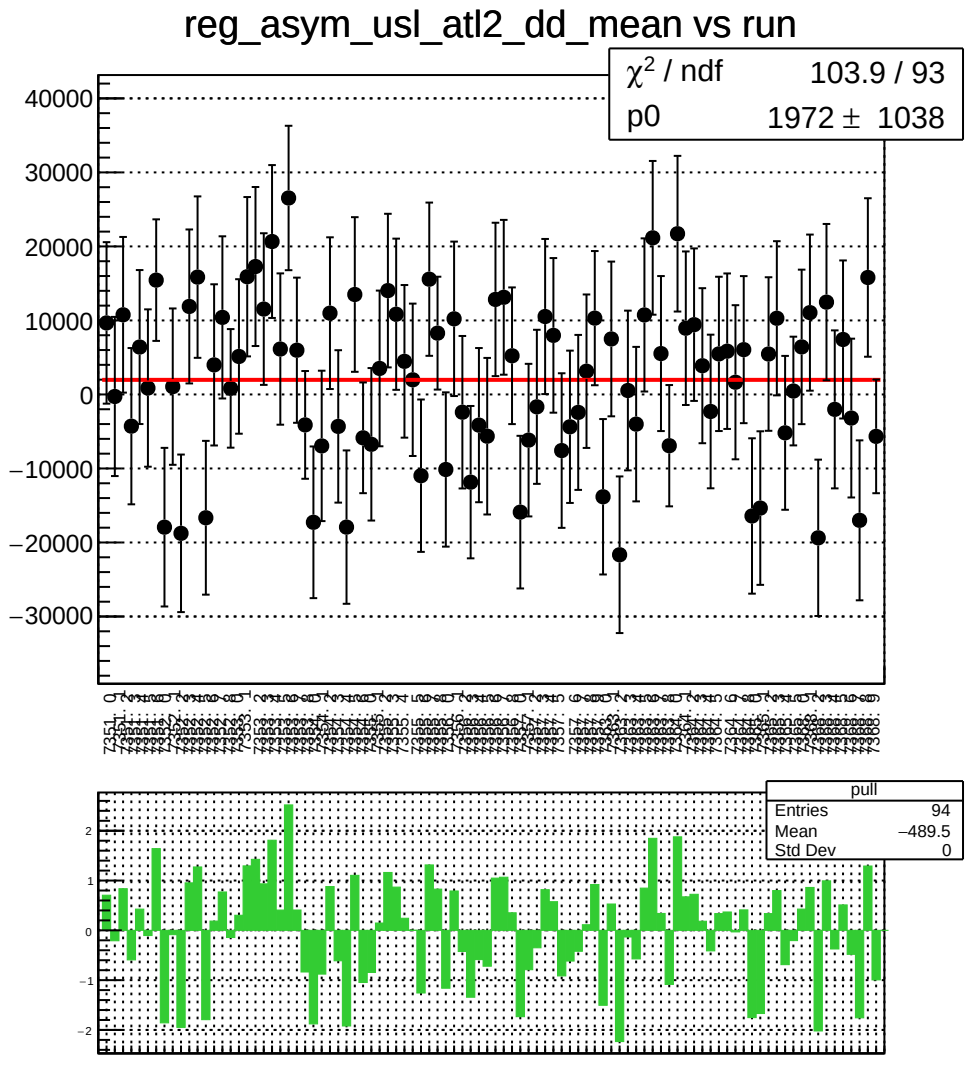

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.47 / 93
p0 1.051 ± 0.9259
pull
Entries 94
Mean −52.3
Std Dev 0
pull1D
Entries 94
Mean 0.001827
Std Dev 0.8535

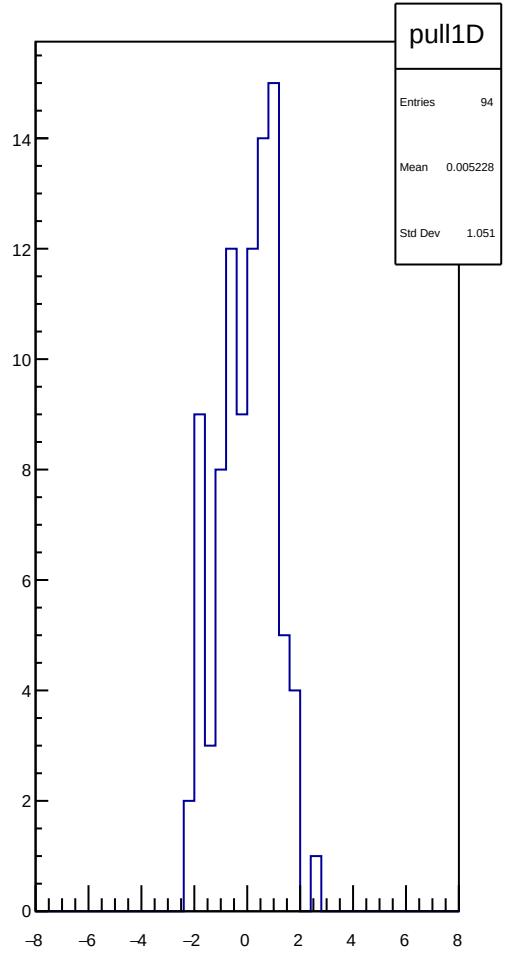

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.638e+04 / 93
p0 874.1 ± 0.6547
1500
1400
1300
1200
1100
1000
900
800
700

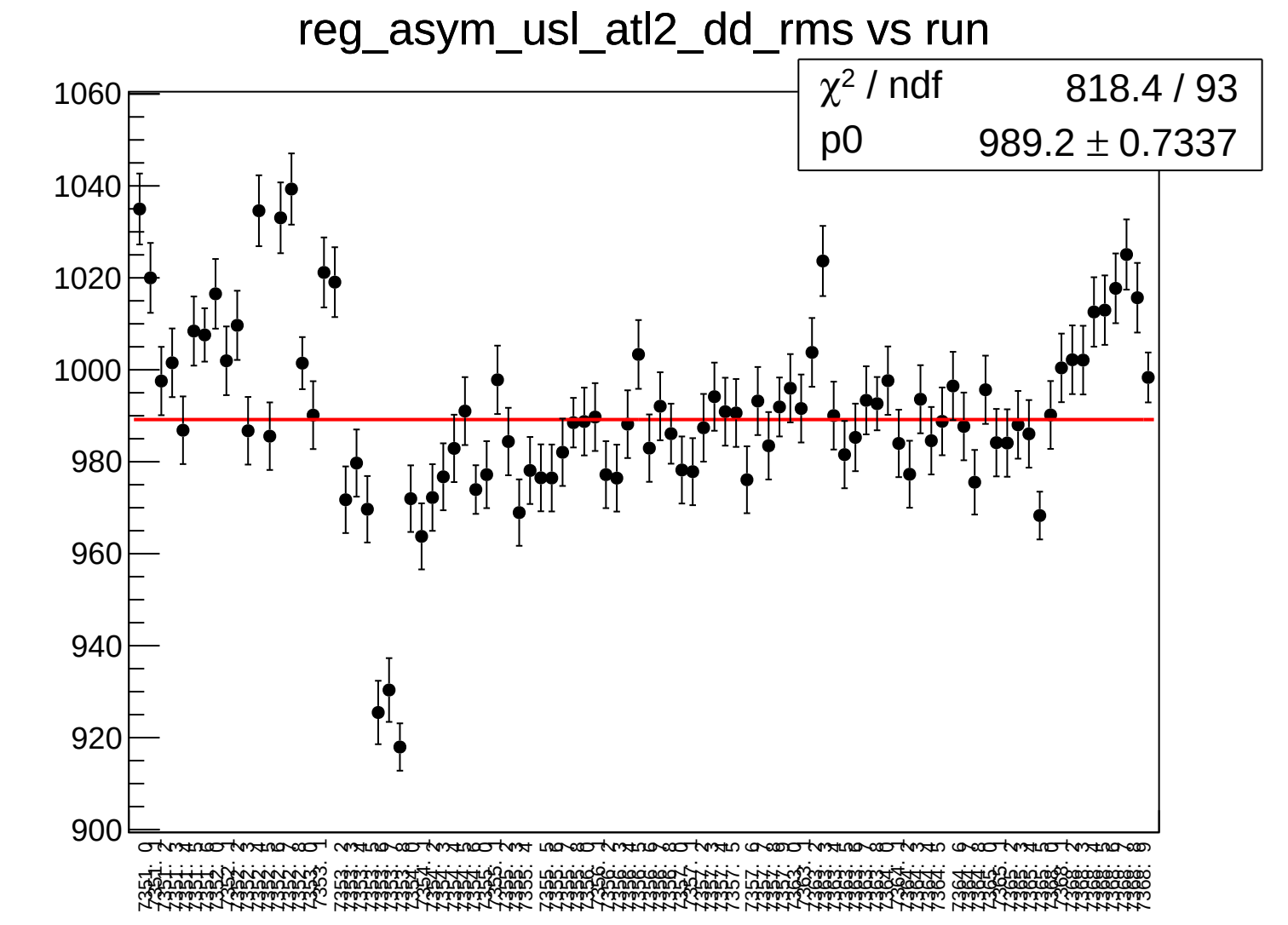

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.99 / 93
p0 8.811e−14 ± 8.42e−14
pull
Entries 94
Mean 24.66
Std Dev 31.17

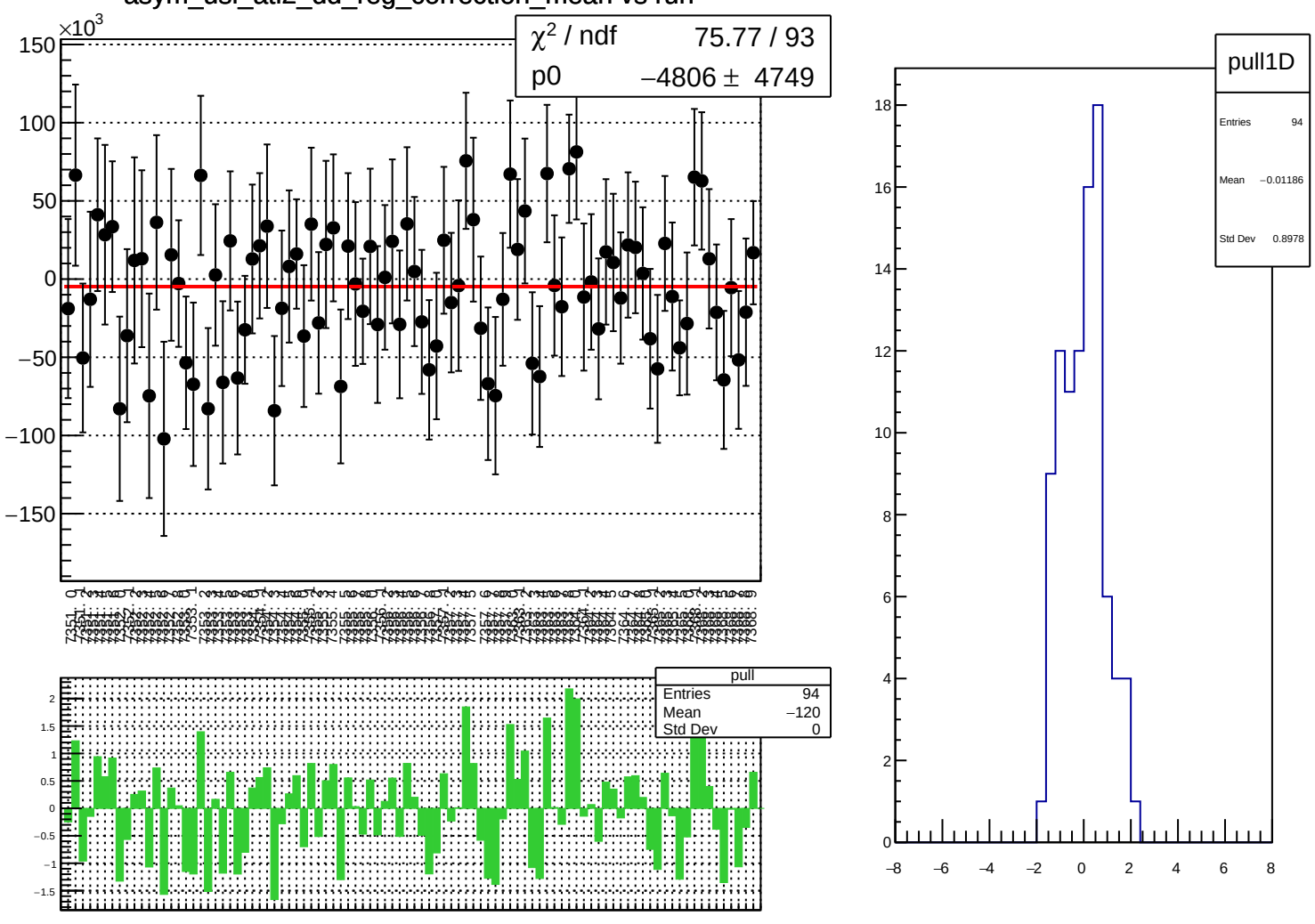

pull1D
Entries 94
Mean 0.01834
Std Dev 0.9945

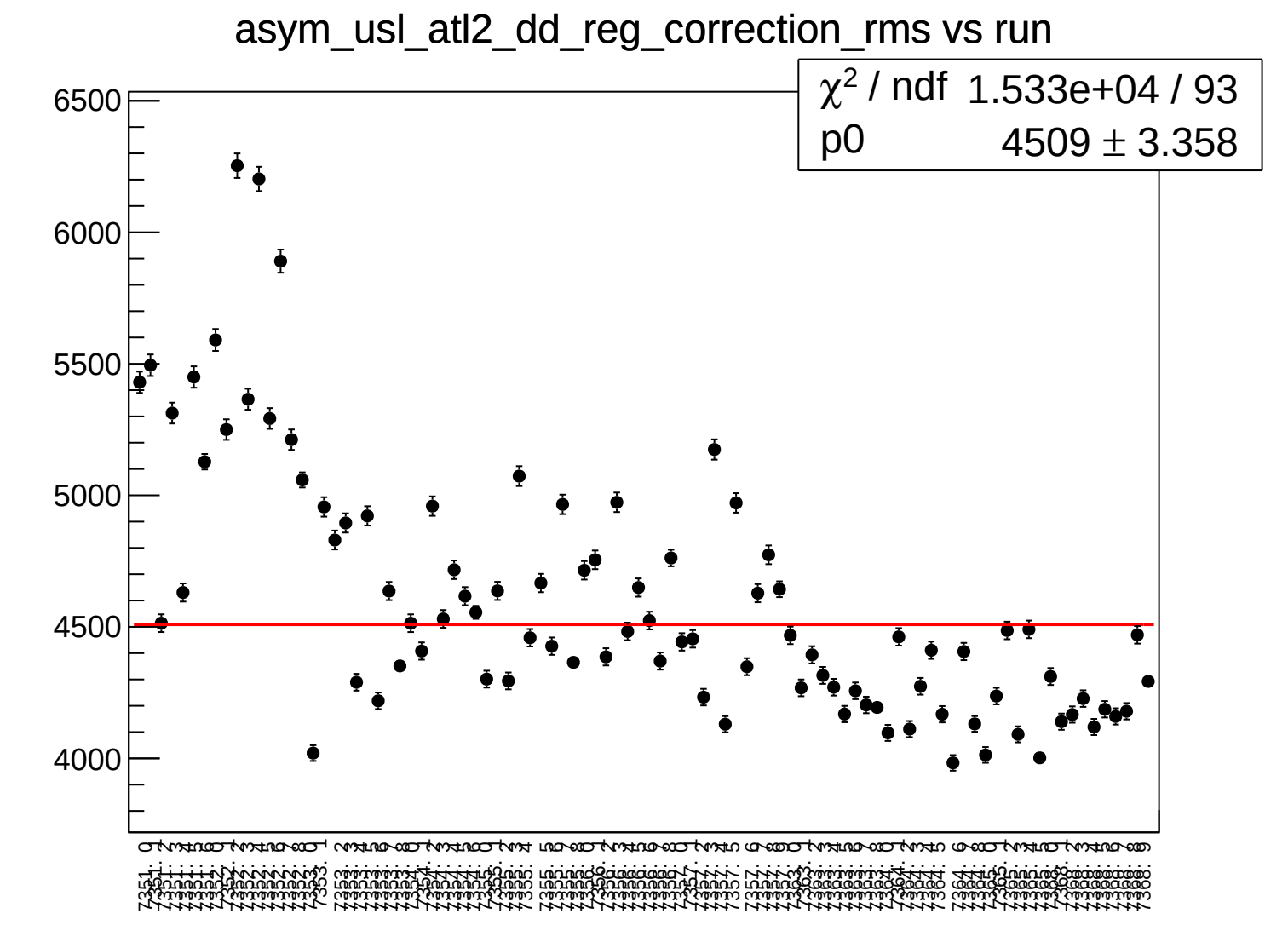

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.573e+05 / 93
p0 6.947e−11 ± 5.954e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

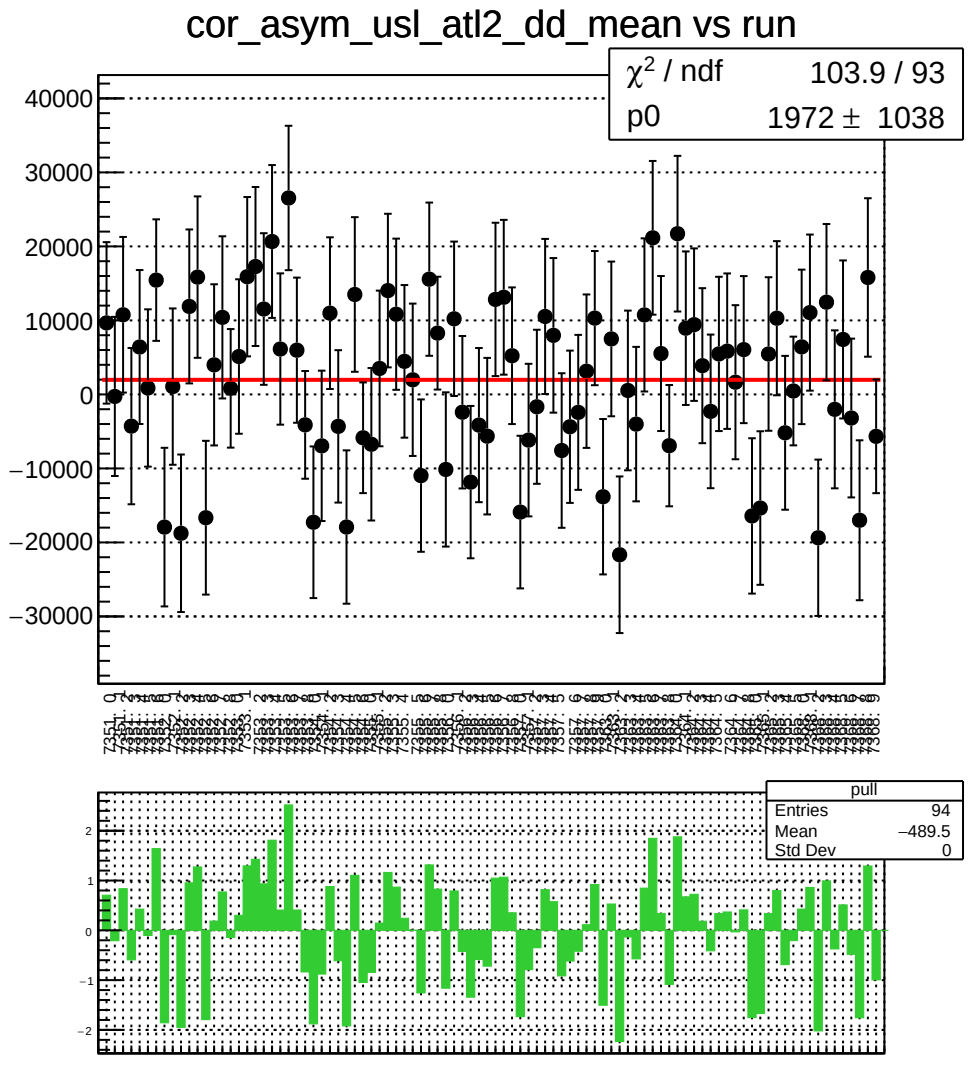

reg_asym_usl_atl2_dd_mean vs run
χ² / ndf 103.9 / 93
p0 1972 ± 1038
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −489.5
Std Dev 0
2
1
0
−1
−2

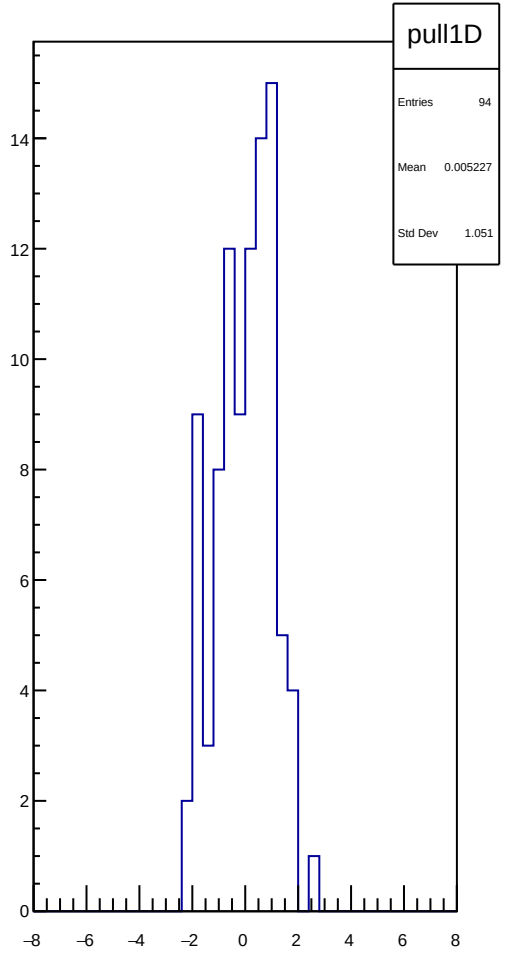

pull1D
Entries 94
Mean 0.005228
Std Dev 1.051
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

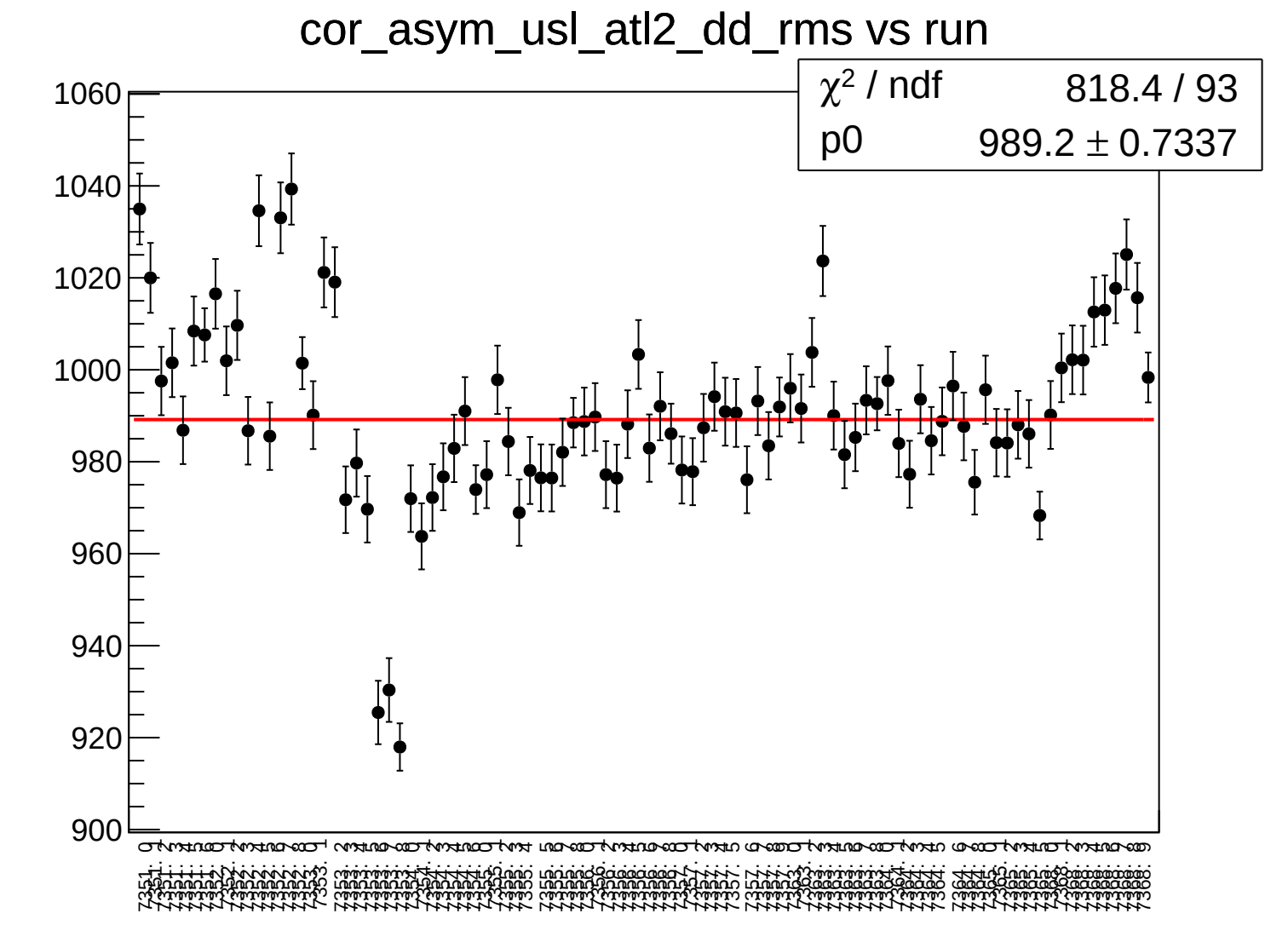

reg_asym_usl_atl2_dd_rms vs run
χ² / ndf 818.4 / 93
p0 989.2 ± 0.7337
1060
1040
1020
1000
980
960
940
920
900

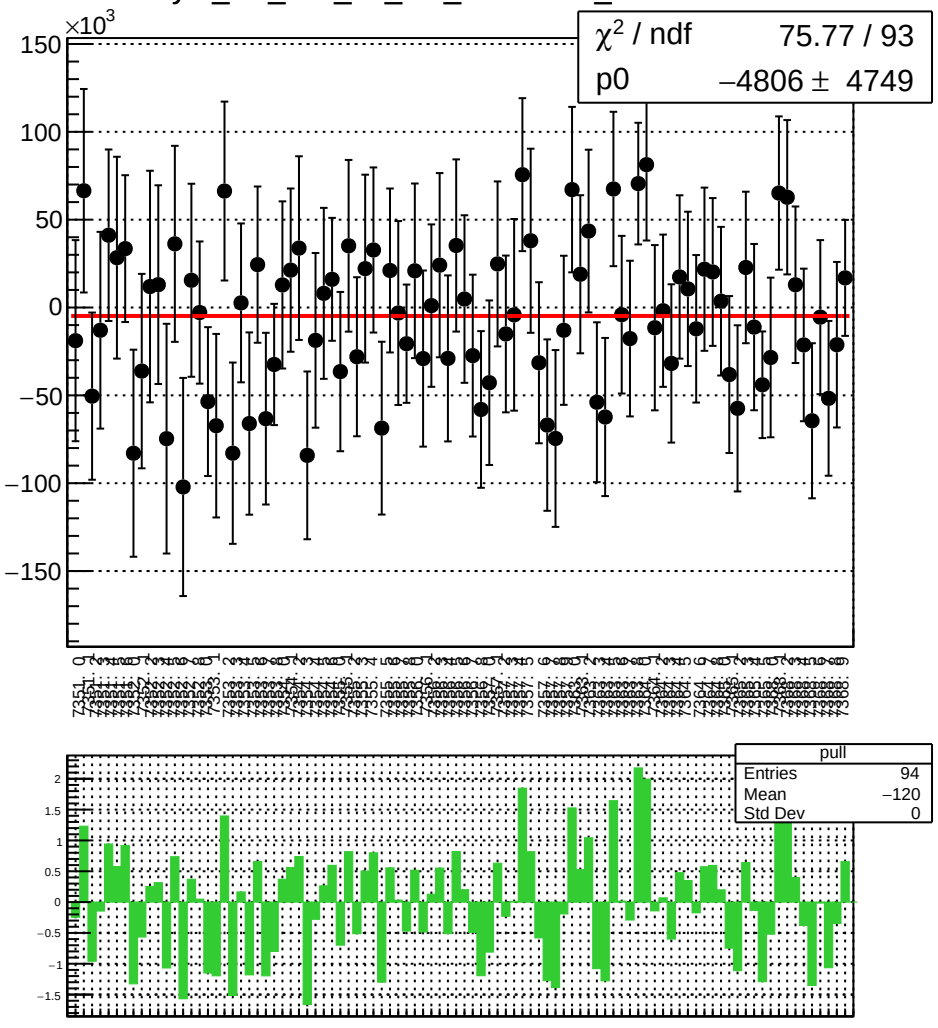

asym_usl_atl2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 75.77 / 93
p0 −4806 ± 4749
150
100
50
0
−50
−100
−150
pull
Entries 94
Mean −120
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 94
Mean −0.01186
Std Dev 0.8978
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

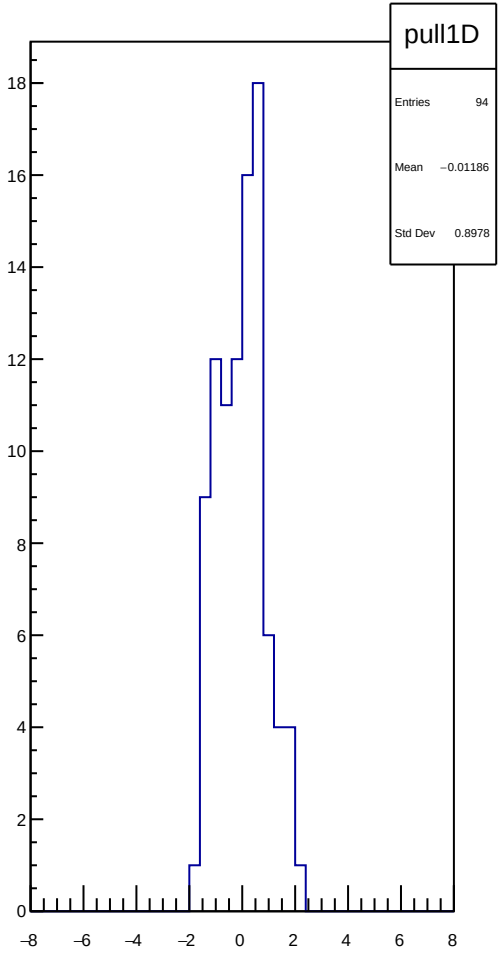

asym_usl_atl2_dd_reg_correction_rms vs run
χ² / ndf 1.533e+04 / 93
p0 4509 ± 3.358
6500
6000
5500
5000
4500
4000

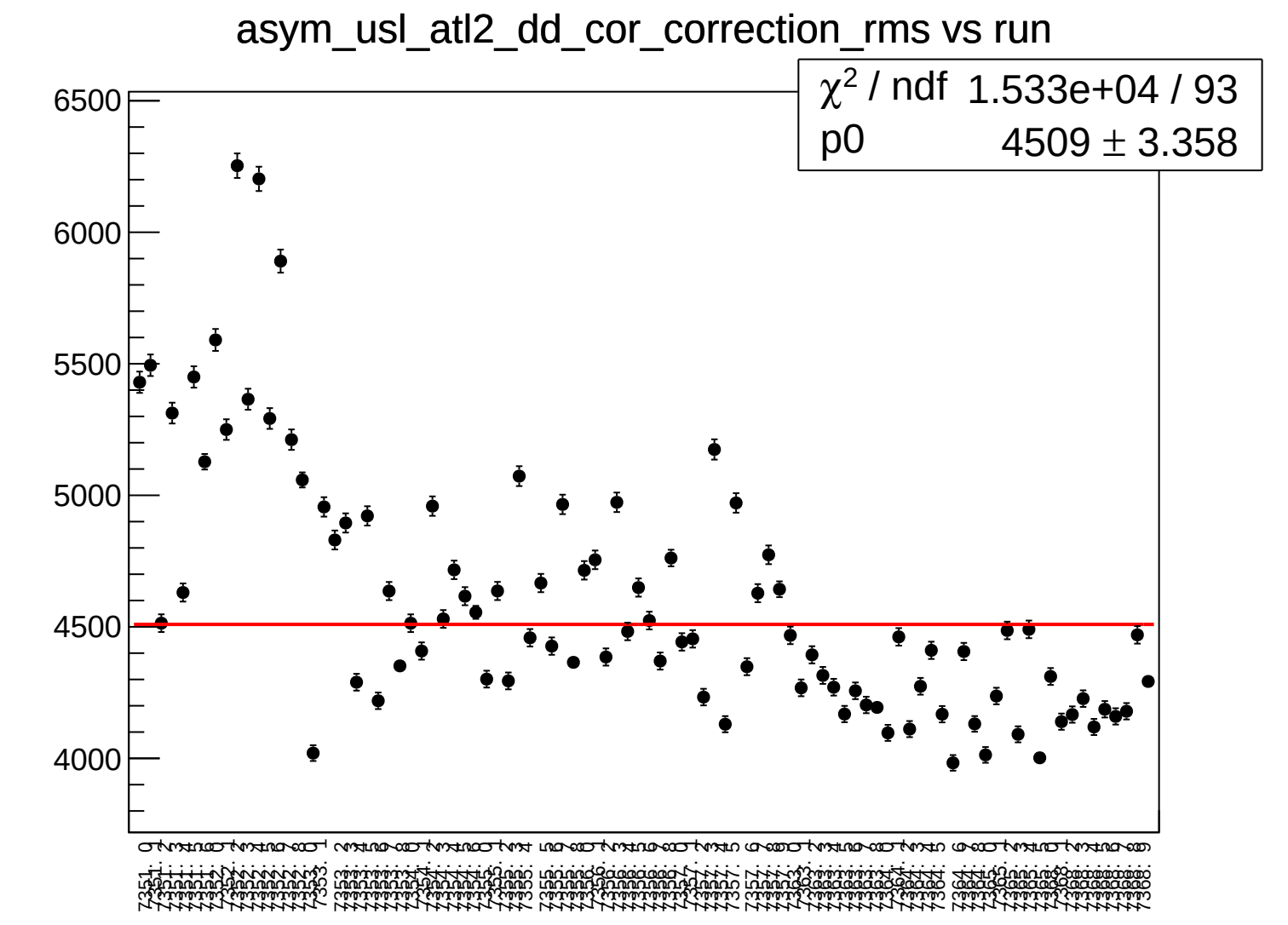

cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 103.9 / 93
p0 1972 ± 1038
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −489.5
Std Dev 0
2
1
0
−1
−2

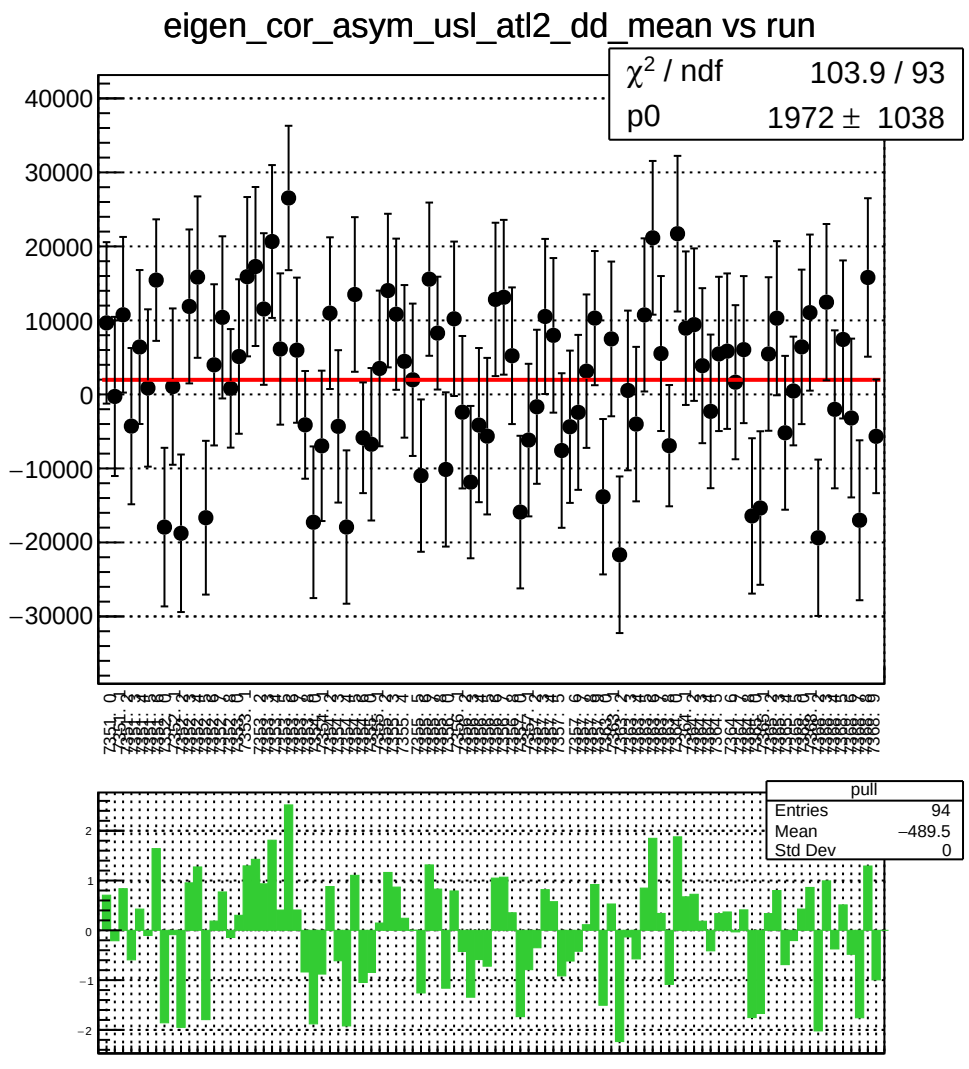

pull1D
Entries 94
Mean 0.005227
Std Dev 1.051
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

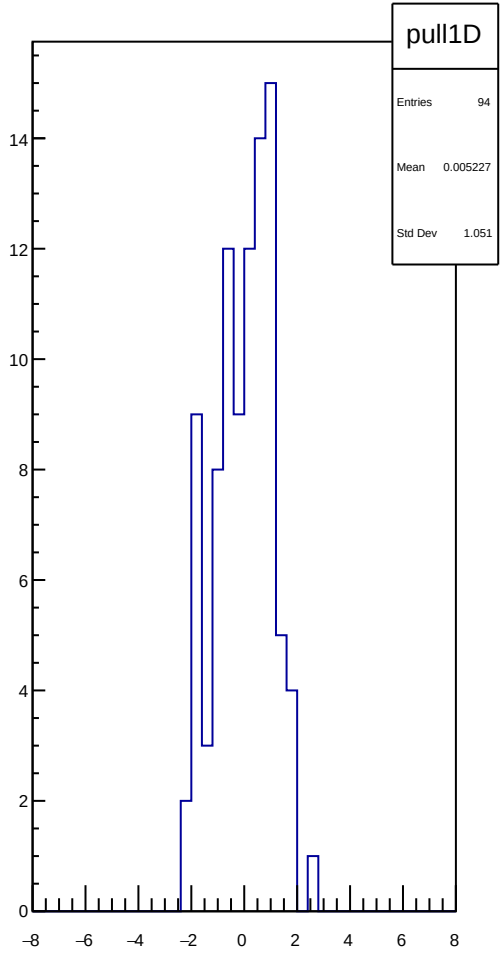

cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 818.4 / 93
p0 989.2 ± 0.7337
1060
1040
1020
1000
980
960
940
920
900

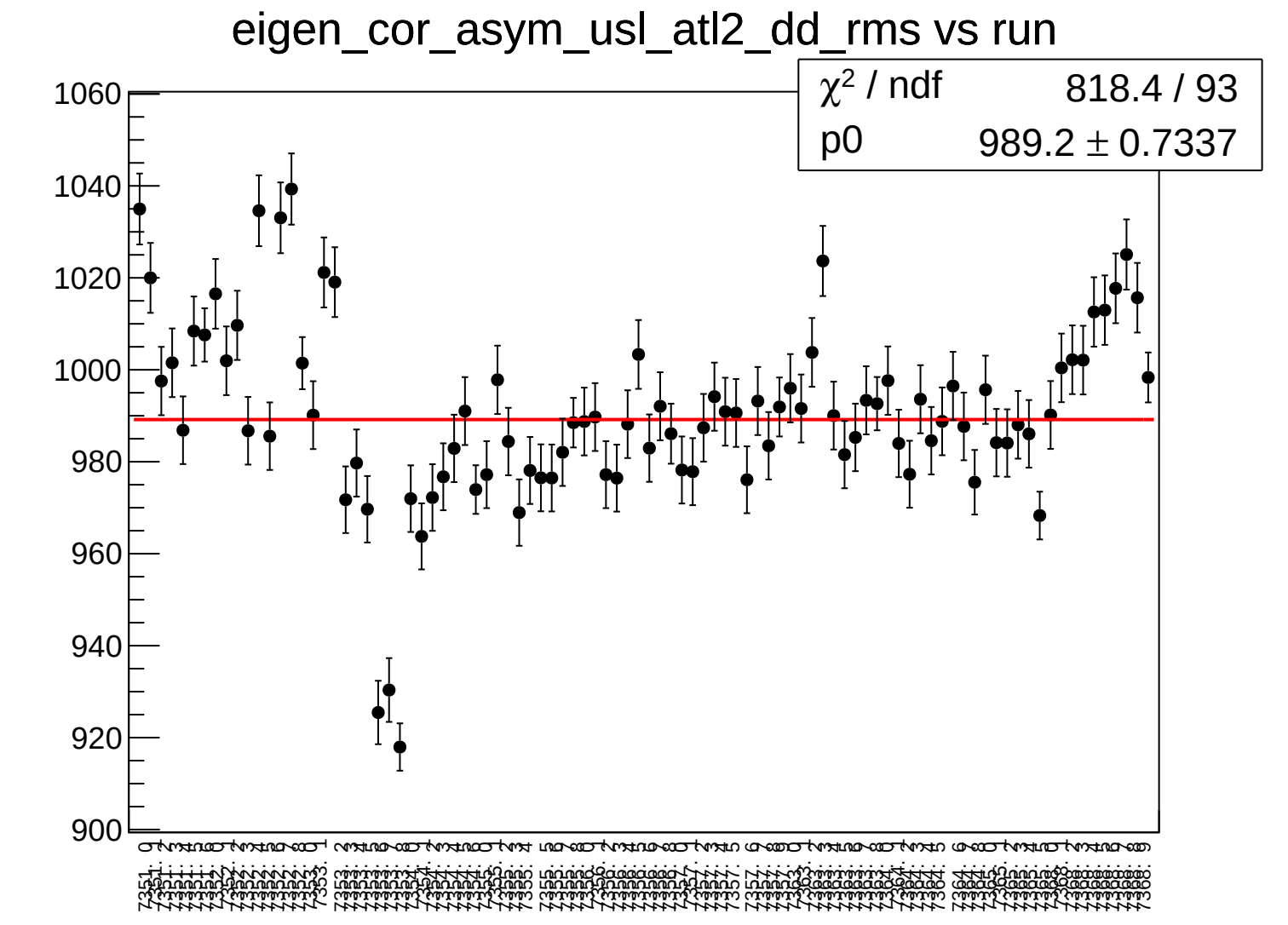

asym_usl_atl2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 75.77 / 93
p0 −4806 ± 4749
150
100
50
0
−50
−100
−150
pull
Entries 94
Mean −120
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

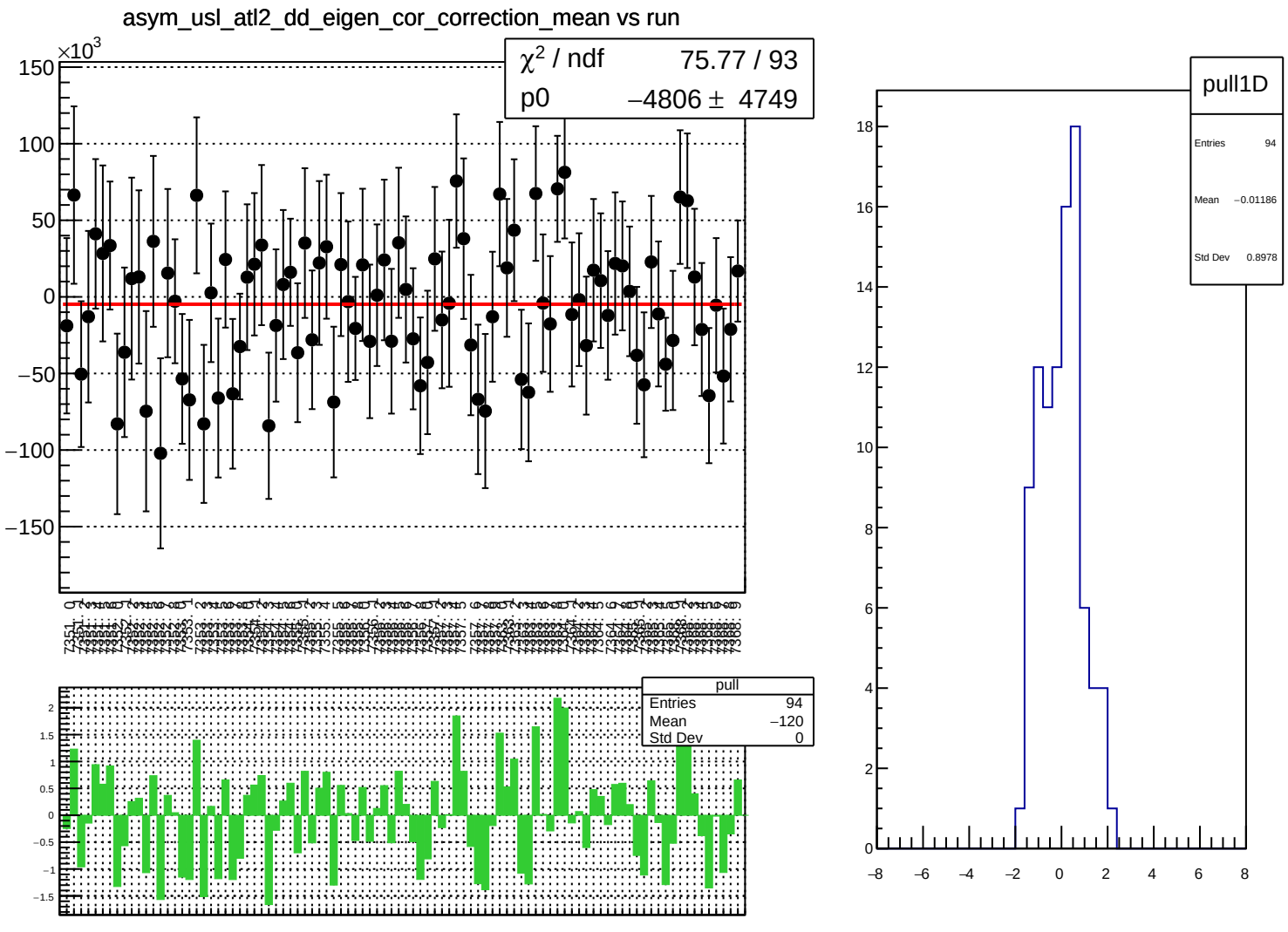

pull1D
Entries 94
Mean −0.01186
Std Dev 0.8978
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

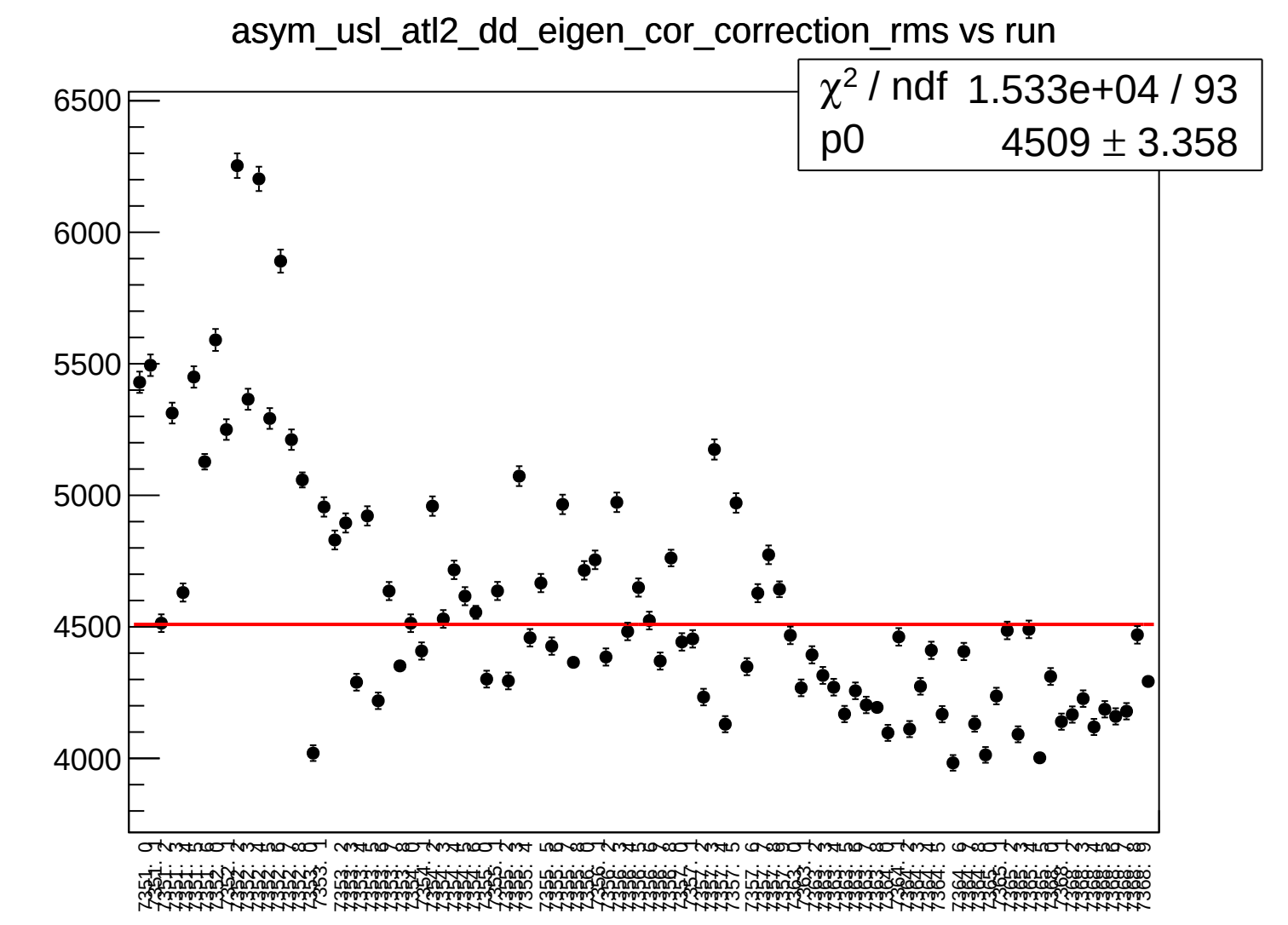

asym_usl_atl2_dd_cor_correction_rms vs run
χ² / ndf 1.533e+04 / 93
p0 4509 ± 3.358
6500
6000
5500
5000
4500
4000

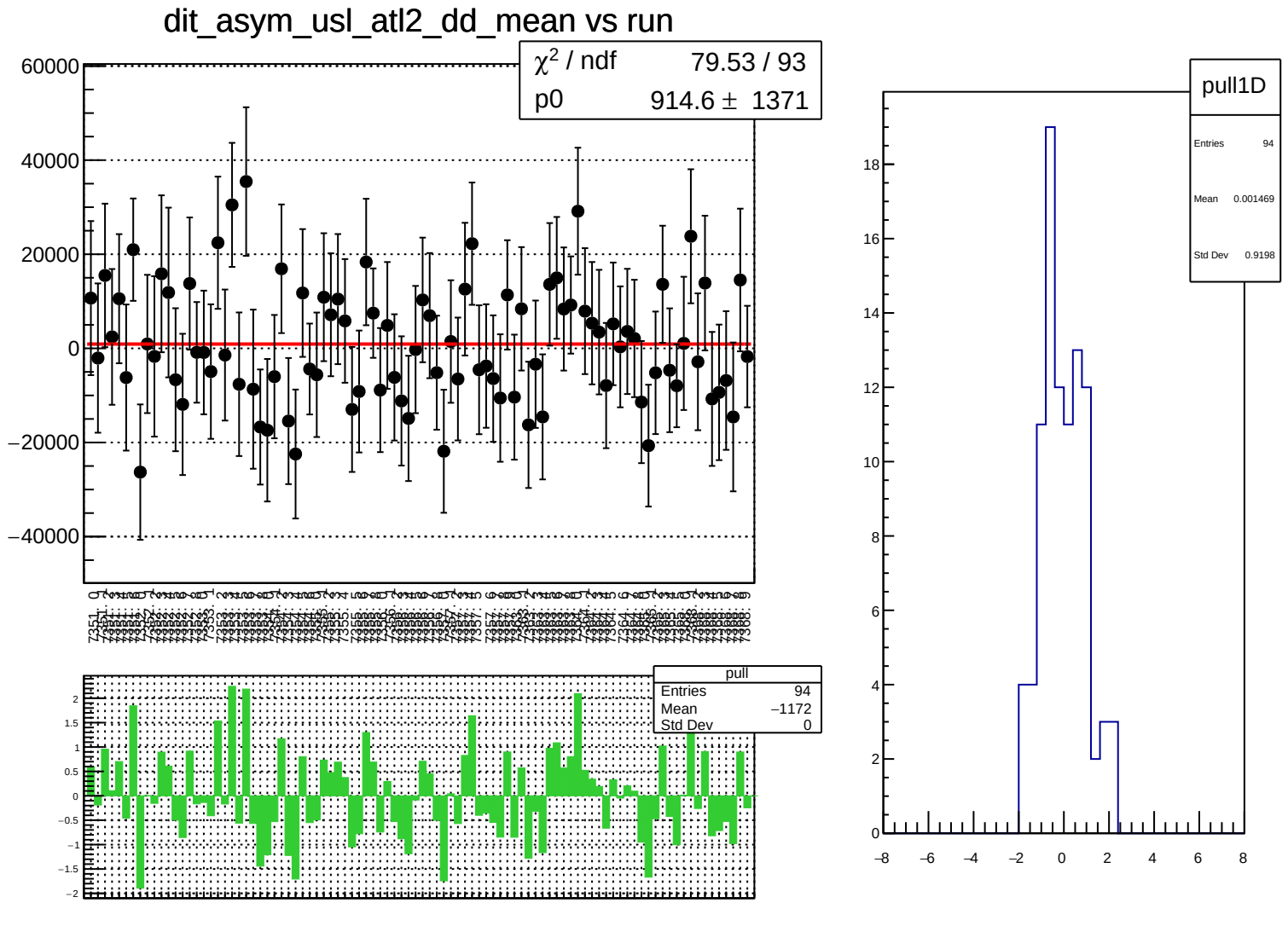

eigen_cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 103.9 / 93
p0 1972 ± 1038
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −489.5
Std Dev 0
2
1
0
−1
−2

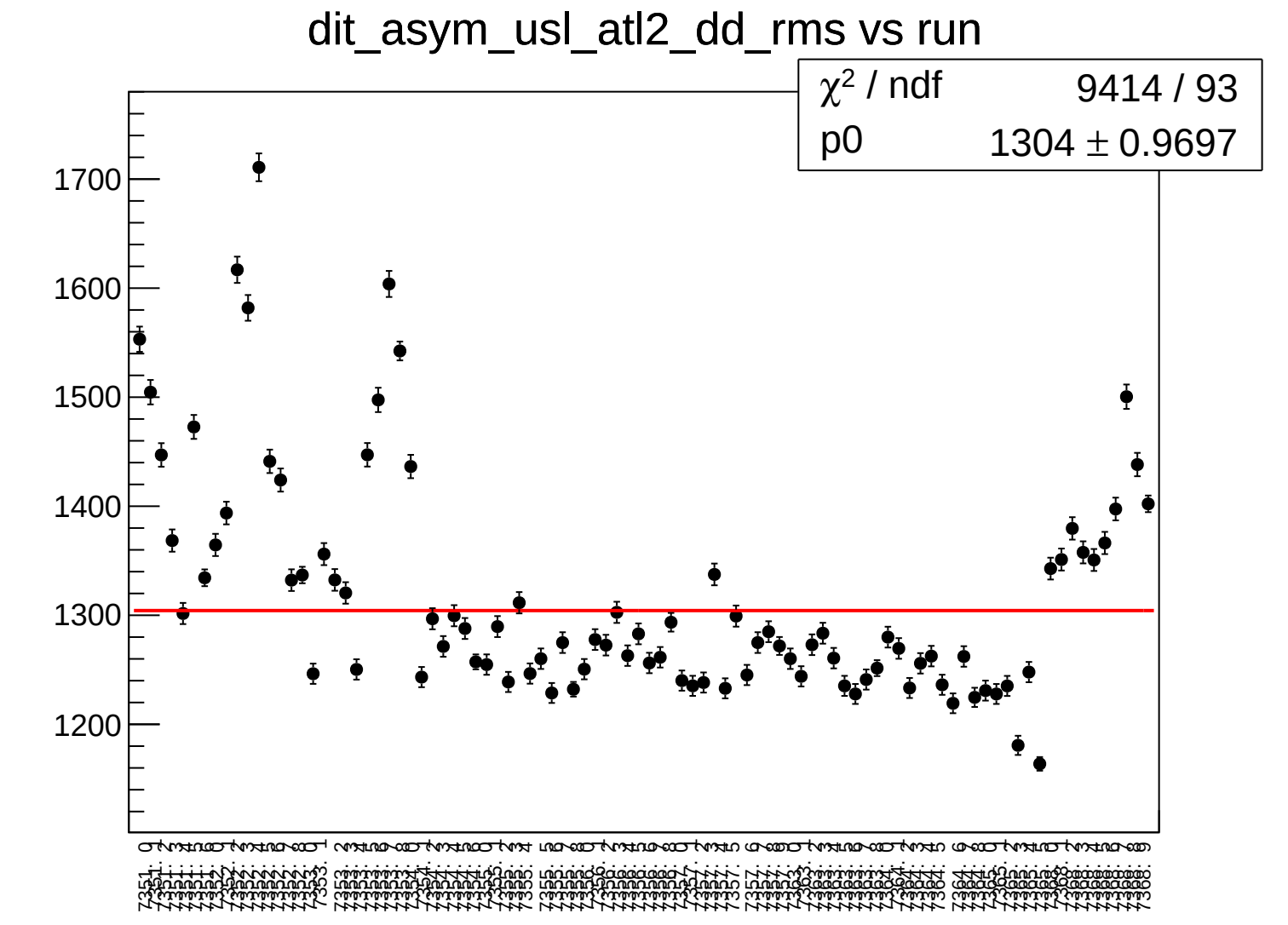

pull1D
Entries 94
Mean 0.005227
Std Dev 1.051
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

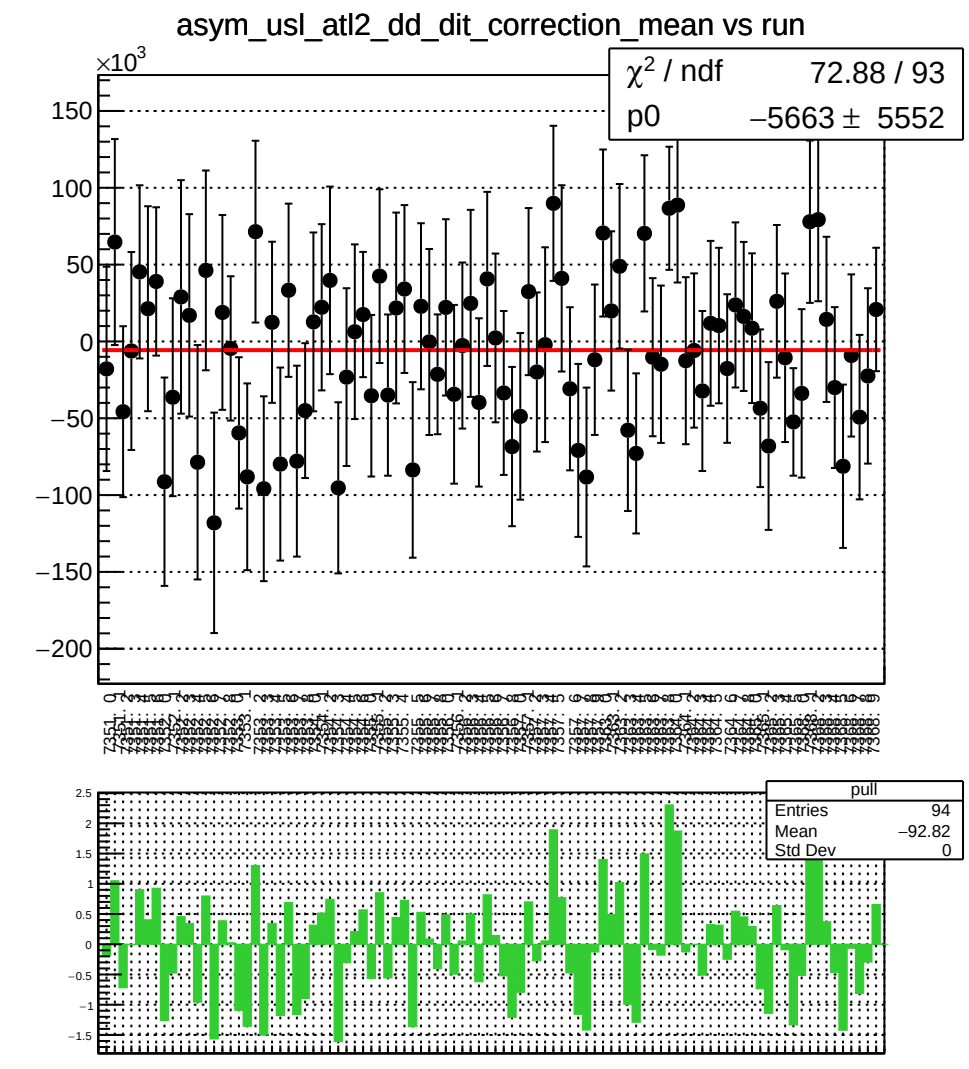

eigen_cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 818.4 / 93
p0 989.2 ± 0.7337
1060
1040
1020
1000
980
960
940
920
900

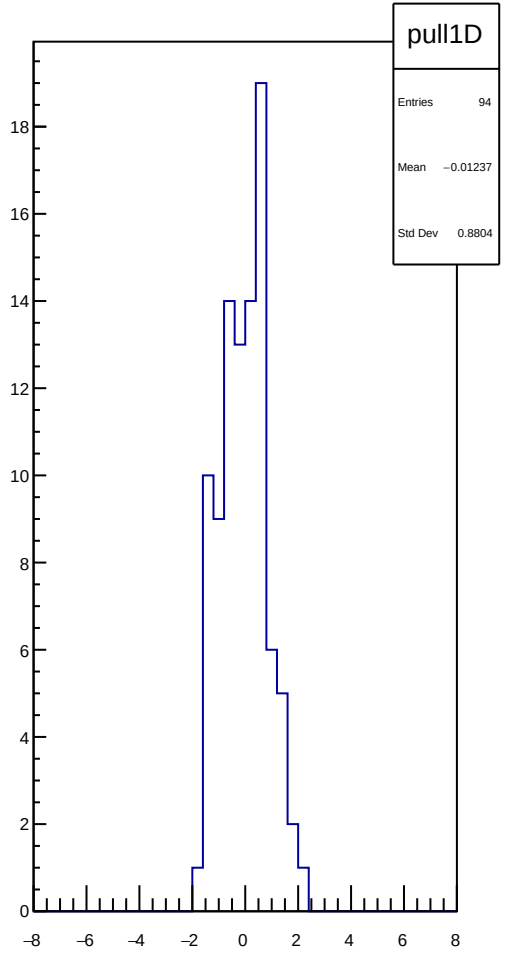

asym_usl_atl2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 75.77 / 93
p0 −4806 ± 4749
pull
Entries 94
Mean −120
Std Dev 0
pull1D
Entries 94
Mean −0.01186
Std Dev 0.8978

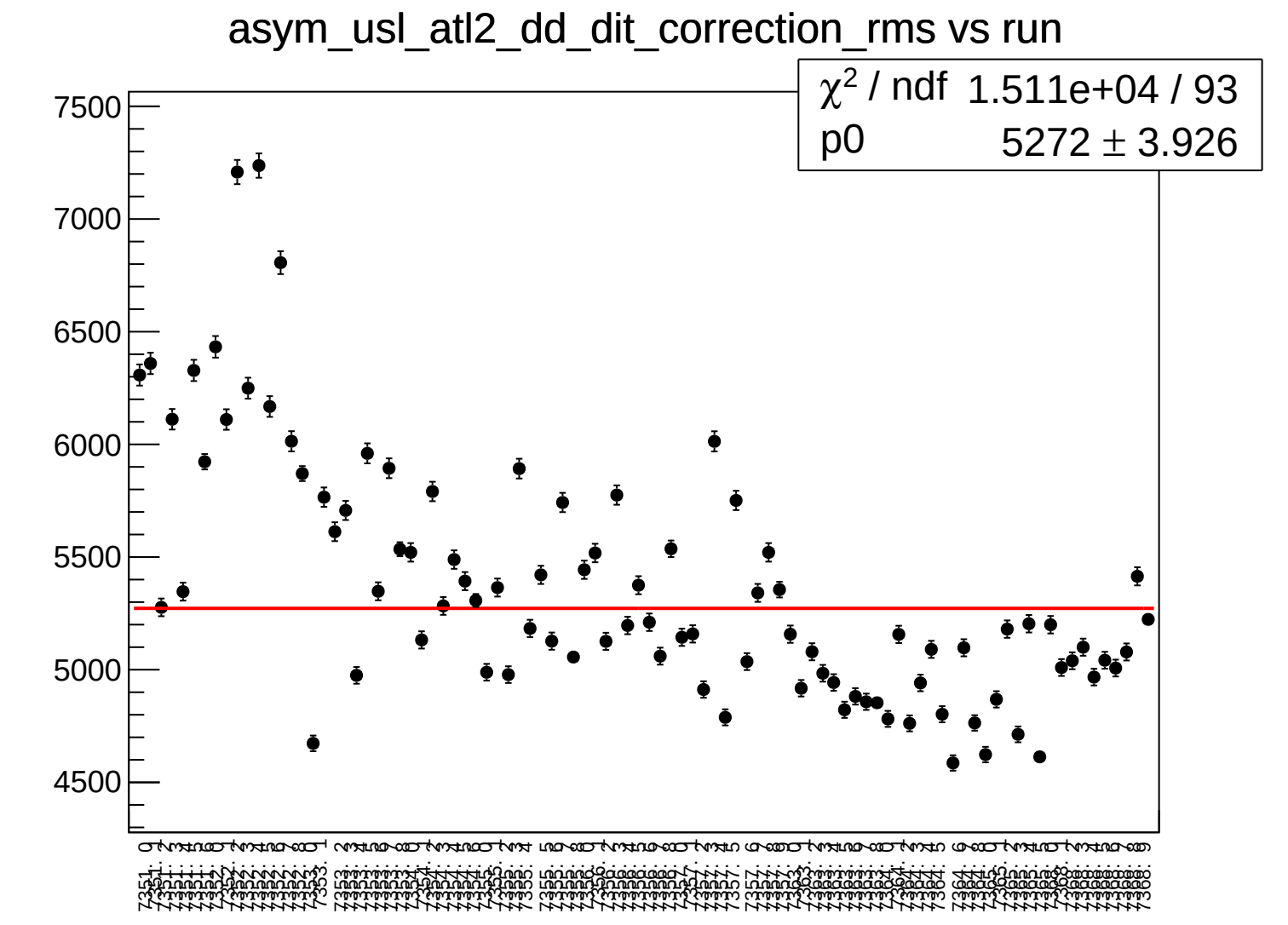

asym_usl_atl2_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.533e+04 / 93
p0 4509 ± 3.358
6500
6000
5500
5000
4500
4000

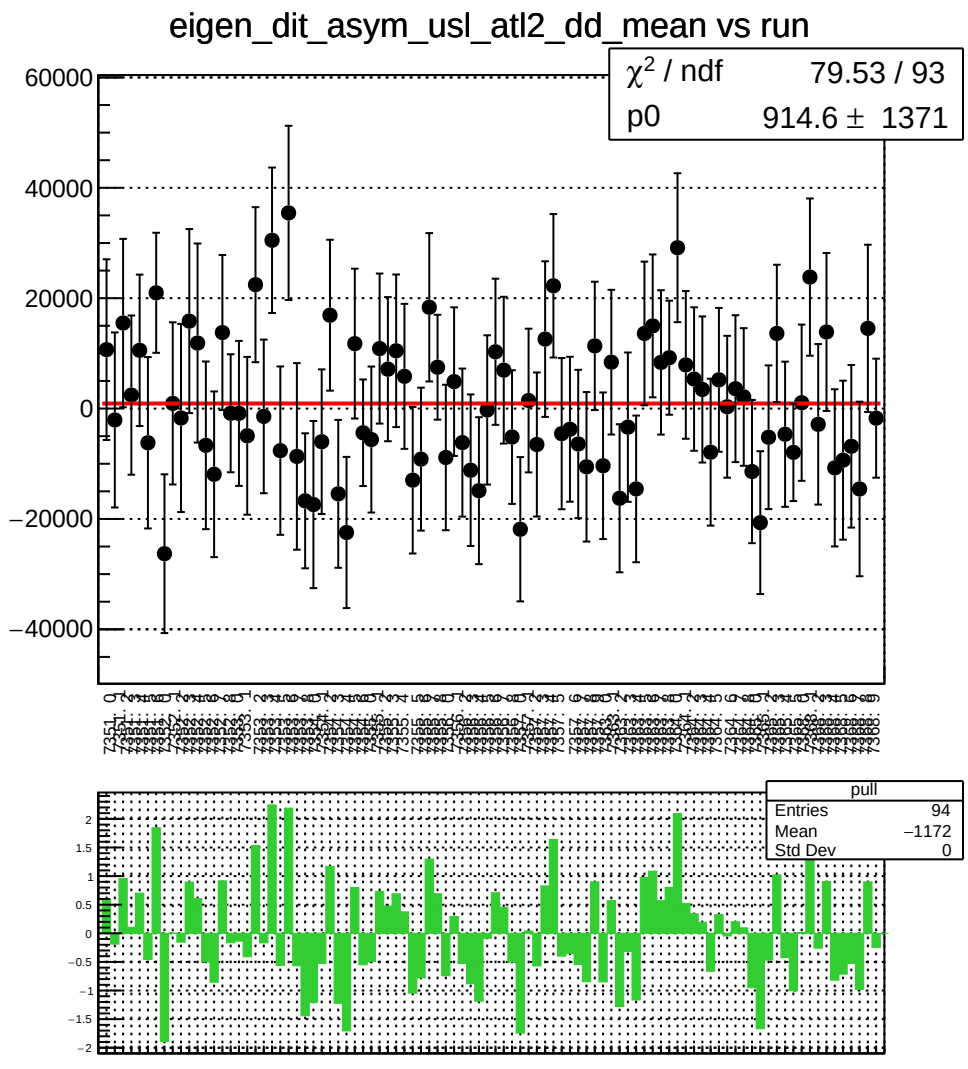

dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 79.53 / 93
p0 914.6 ± 1371
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −1172
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean 0.001469
Std Dev 0.9198
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

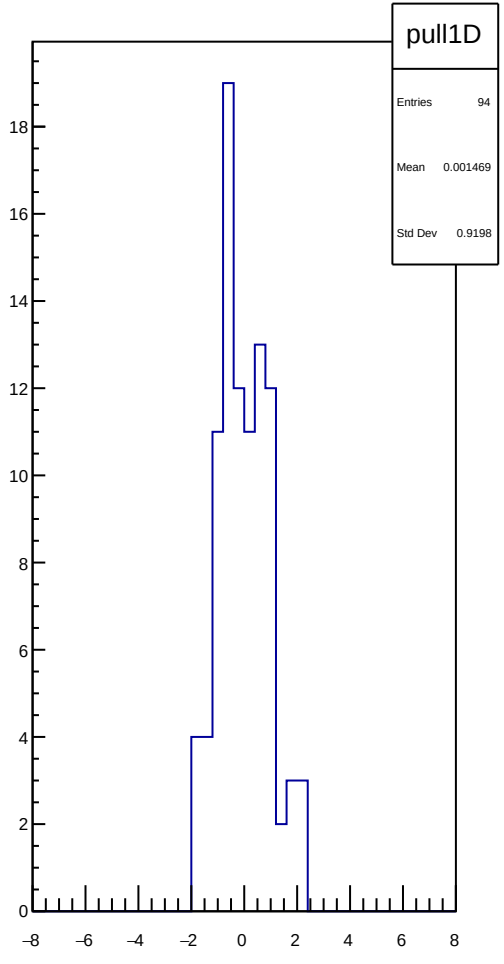

dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 9414 / 93
p0 1304 ± 0.9697
1700
1600
1500
1400
1300
1200

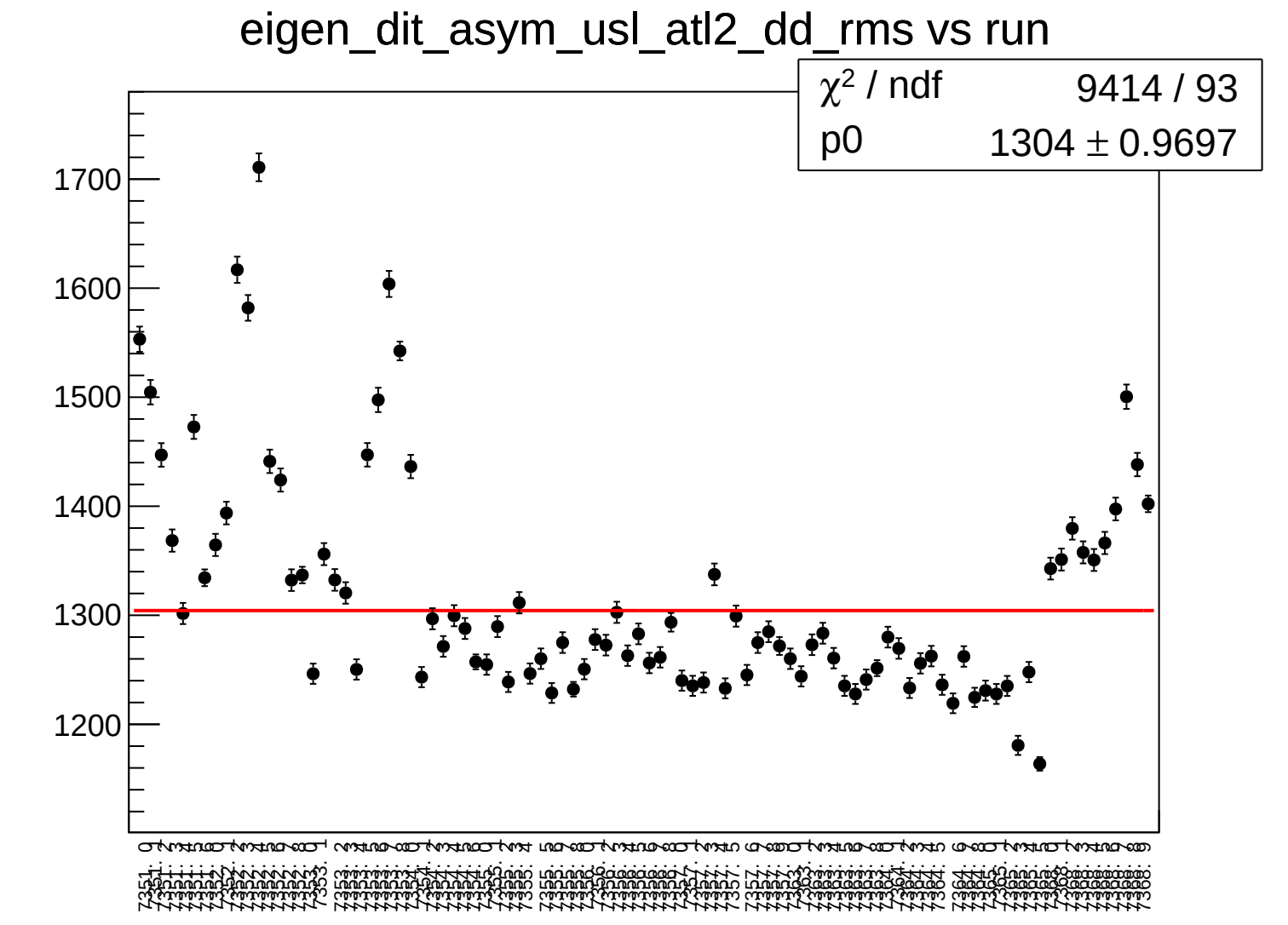

asym_usl_atl2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 72.88 / 93
p0 −5663 ± 5552
150
100
50
0
−50
−100
−150
−200
pull
Entries 94
Mean −92.82
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

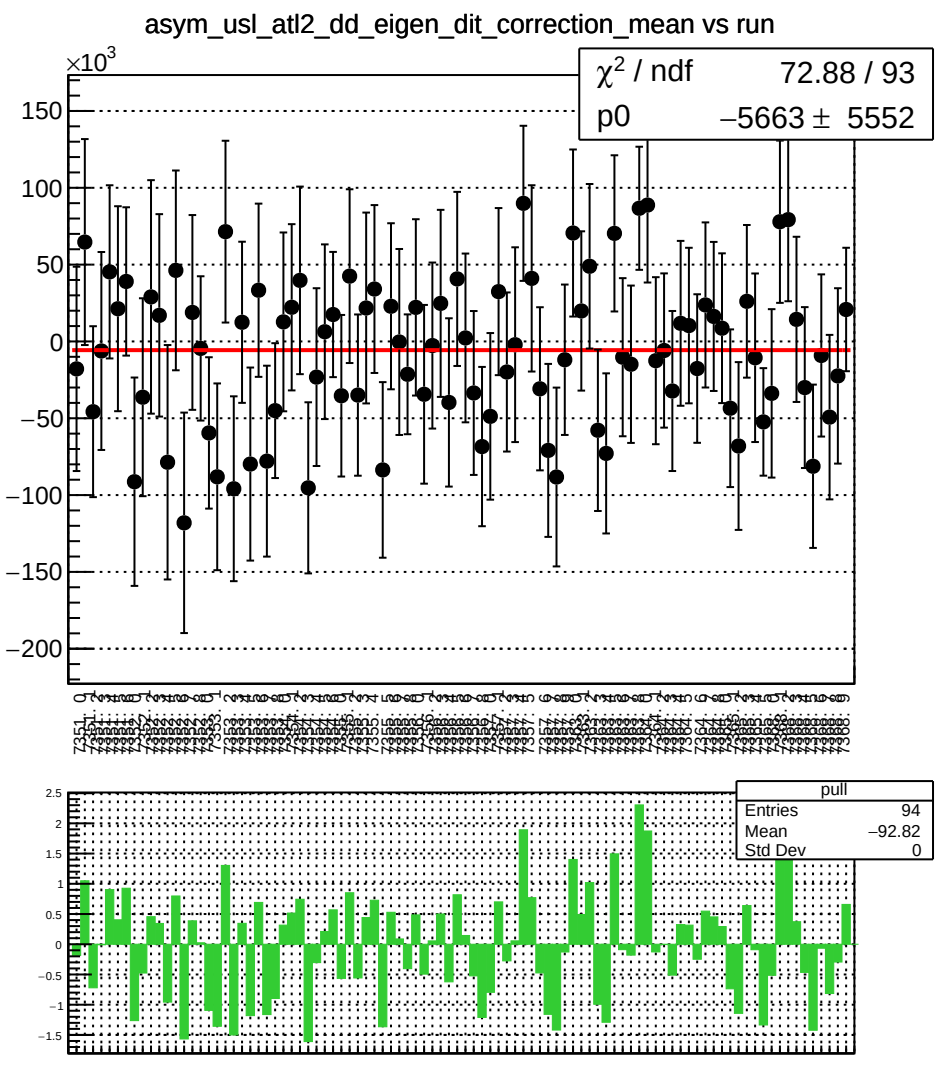

pull1D
Entries 94
Mean −0.01237
Std Dev 0.8804
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

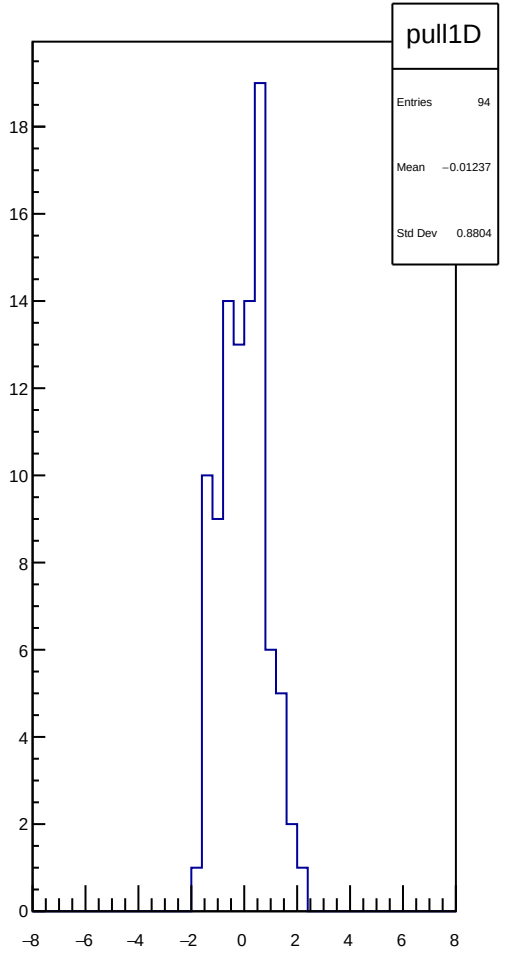

asym_usl_atl2_dd_dit_correction_rms vs run
χ^2 / ndf 1.511e+04 / 93
p0 5272 ± 3.926
7500
7000
6500
6000
5500
5000
4500

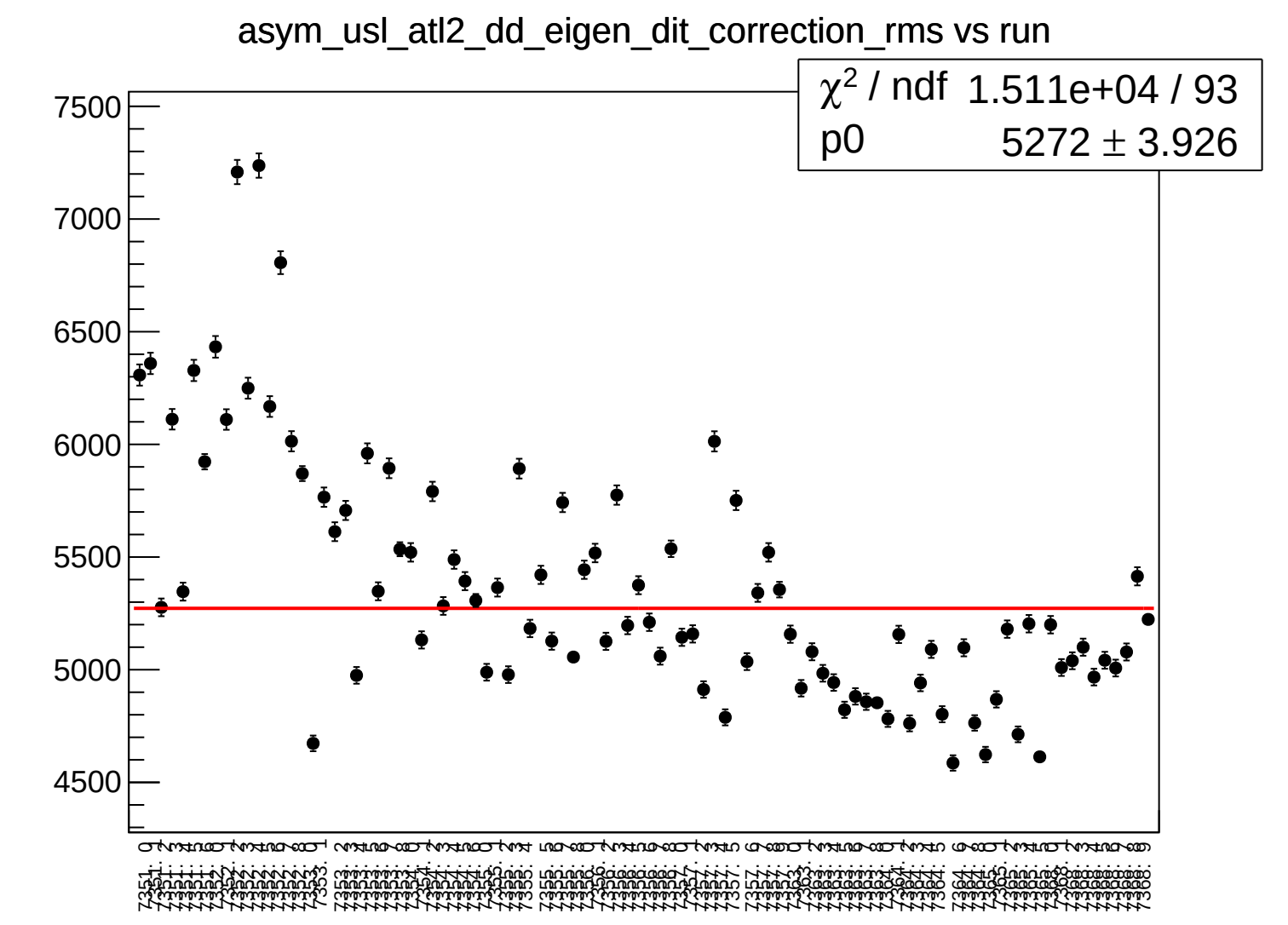

eigen_dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 79.53 / 93
p0 914.6 ± 1371
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −1172
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

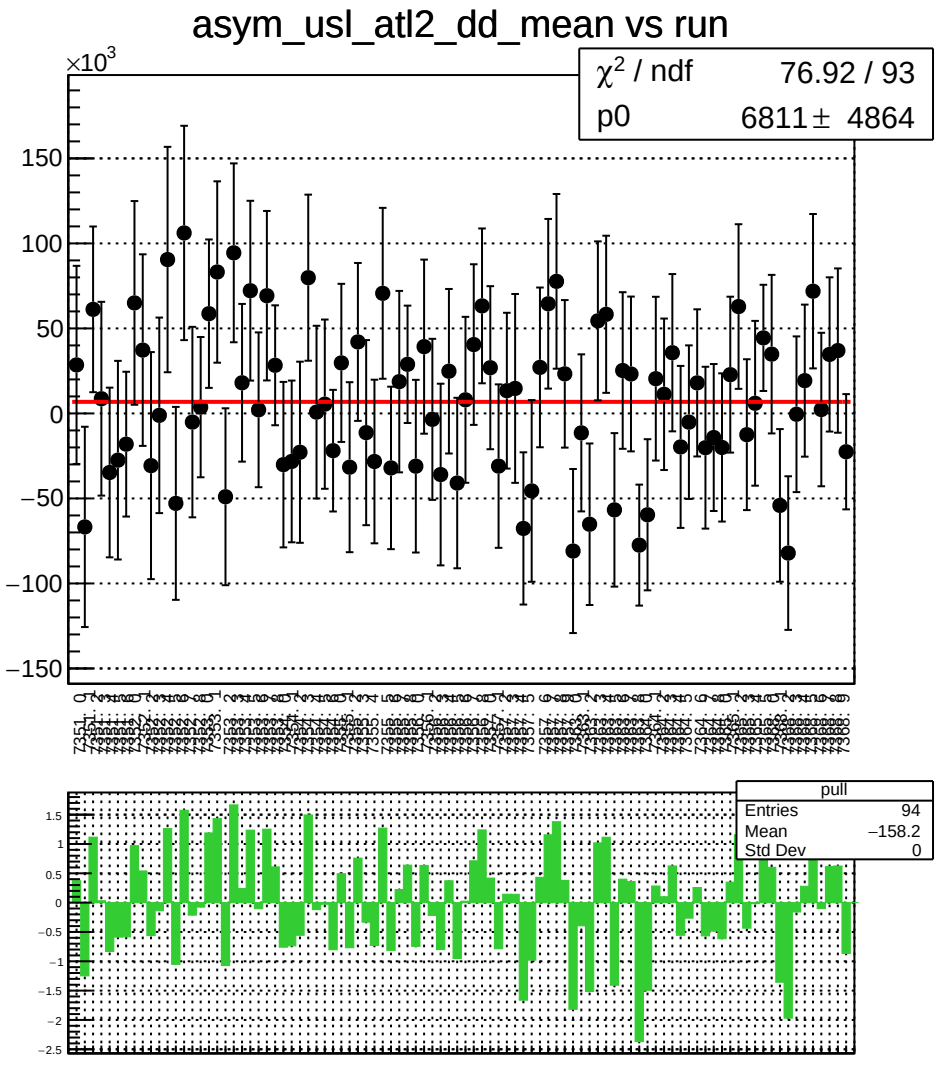

pull1D
Entries 94
Mean 0.001469
Std Dev 0.9198
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

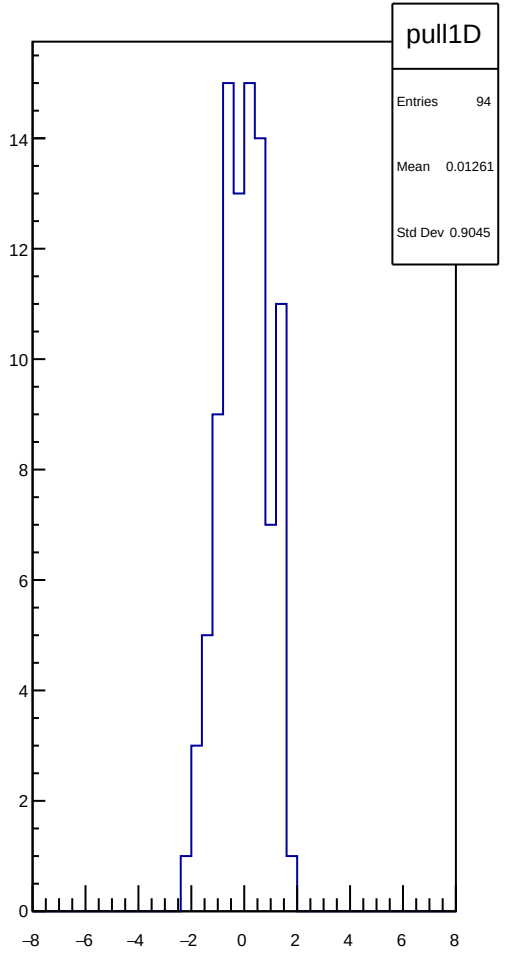

eigen_dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 9414 / 93
p0 1304 ± 0.9697
1700
1600
1500
1400
1300
1200


asym_usl_atl2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 72.88 / 93
p0 −5663 ± 5552
150
100
50
0
−50
−100
−150
−200
pull
Entries 94
Mean −92.82
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

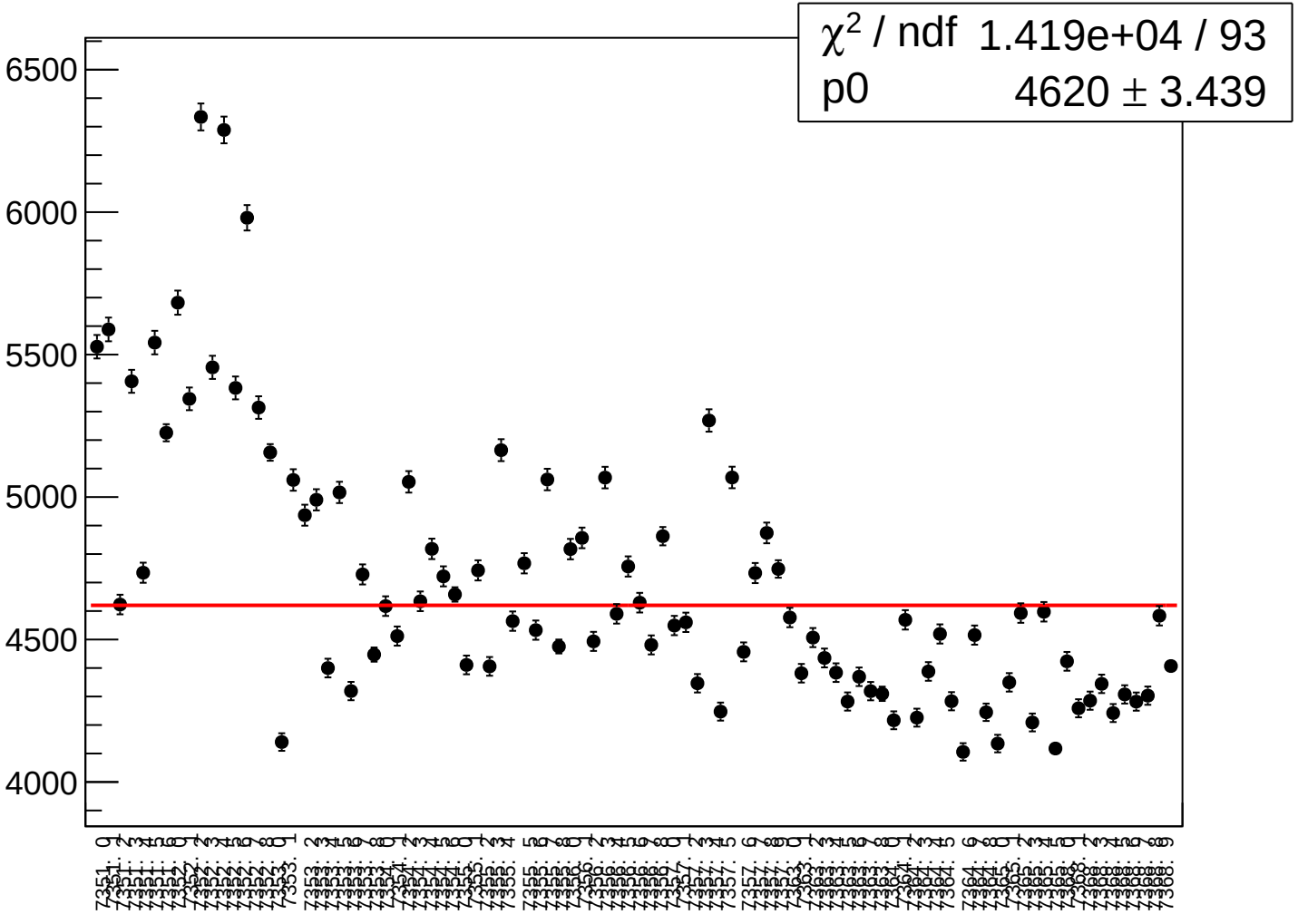

pull1D
Entries 94
Mean −0.01237
Std Dev 0.8804
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

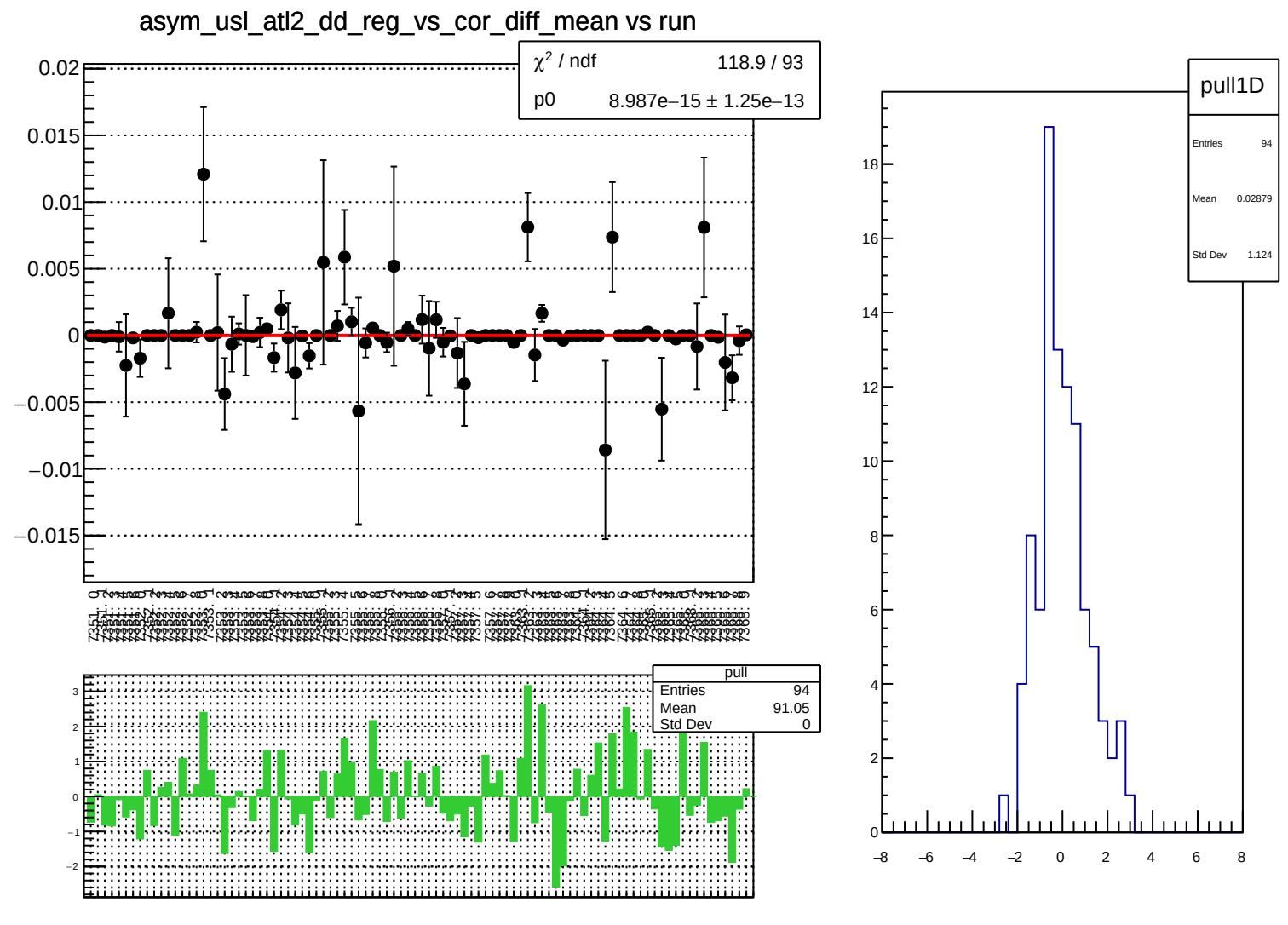

asym_usl_atl2_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.511e+04 / 93
p0 5272 ± 3.926
7500
7000
6500
6000
5500
5000
4500

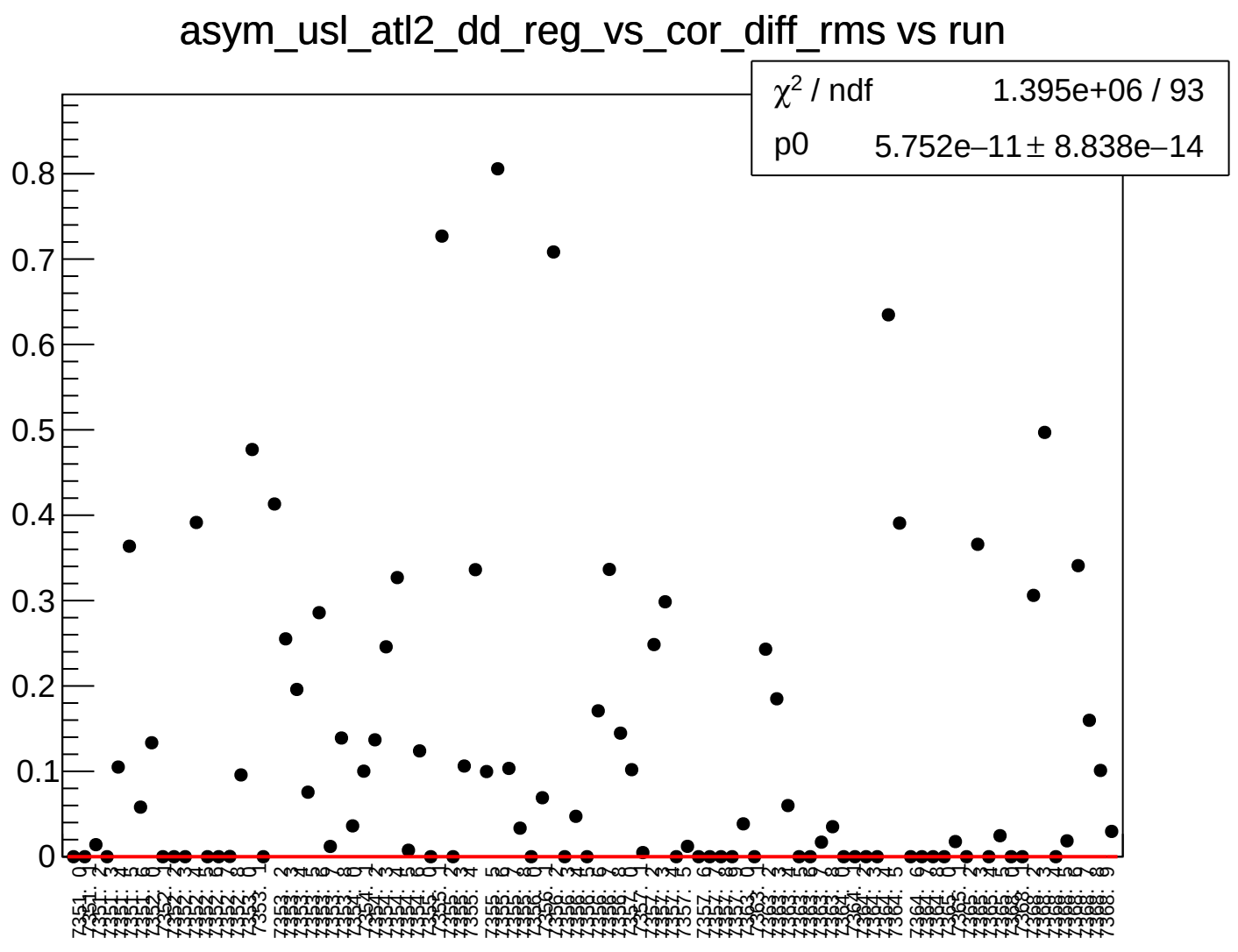

asym_usl_atl2_dd_mean vs run
×10^3
χ^2 / ndf 76.92 / 93
p0 6811 ± 4864
150
100
50
0
−50
−100
−150
pull
Entries 94
Mean −158.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

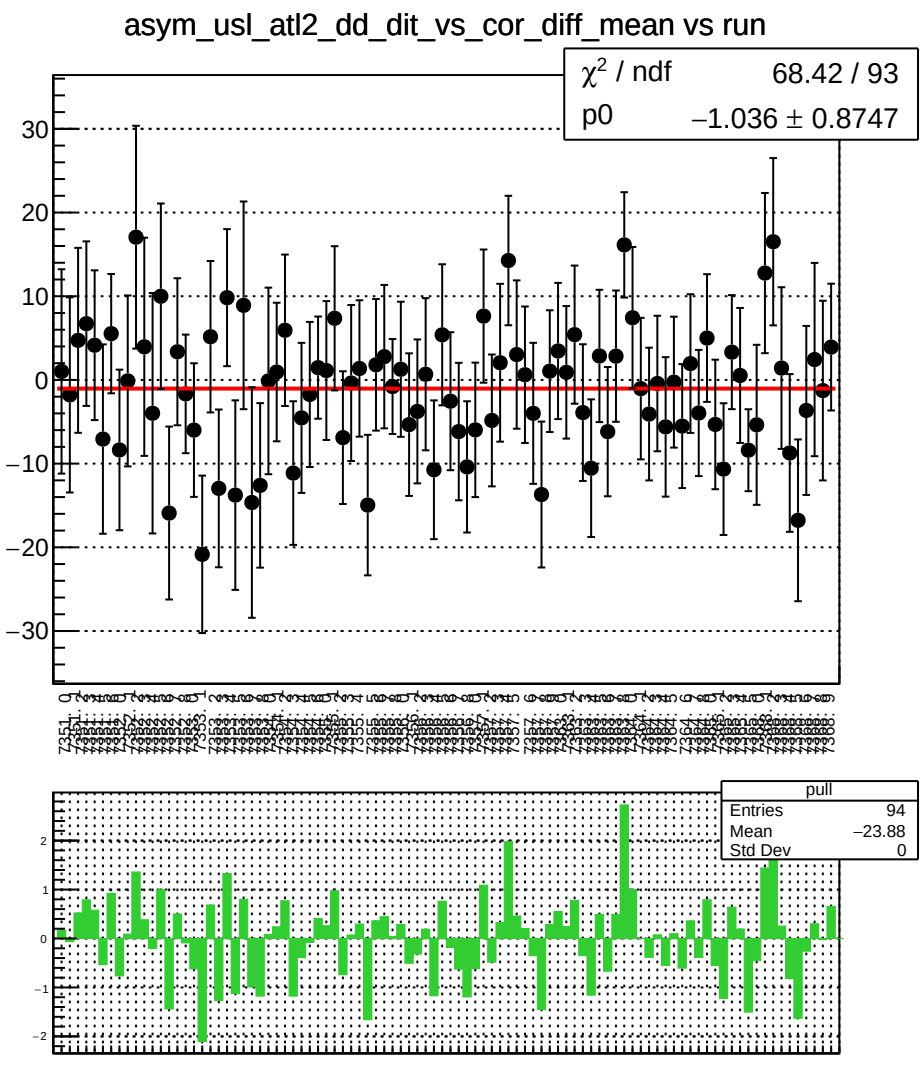

pull1D
Entries 94
Mean 0.01261
Std Dev 0.9045
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

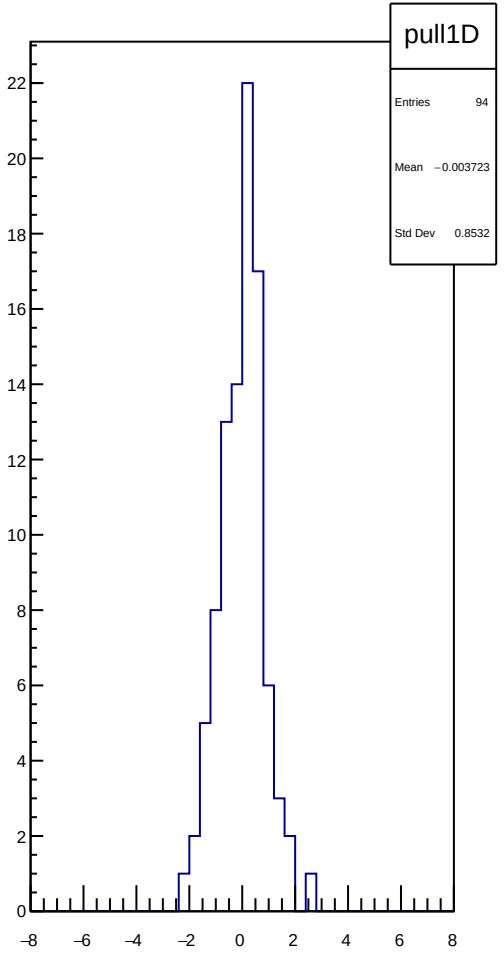
asym_usl_atl2_dd_rms vs run

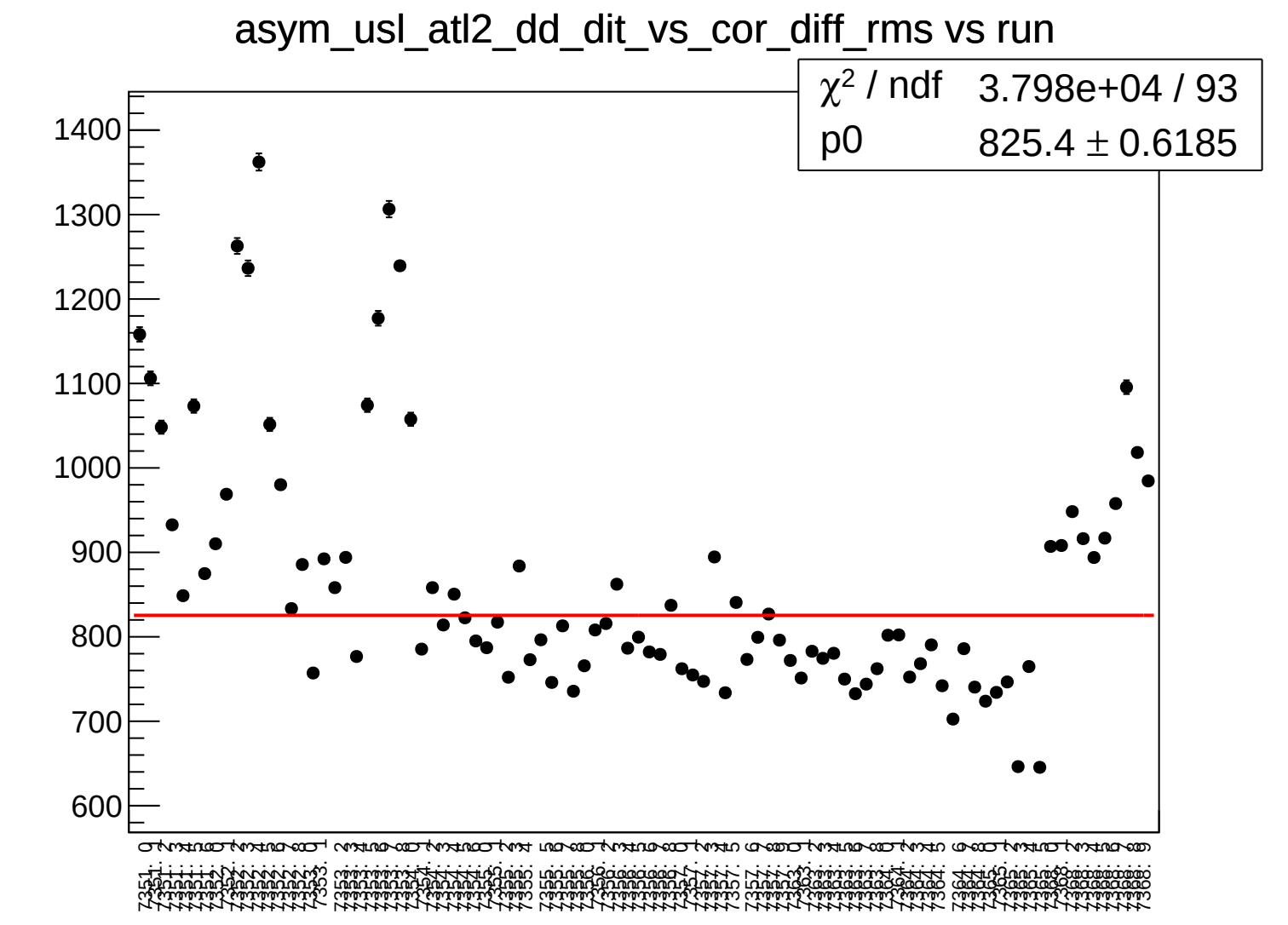


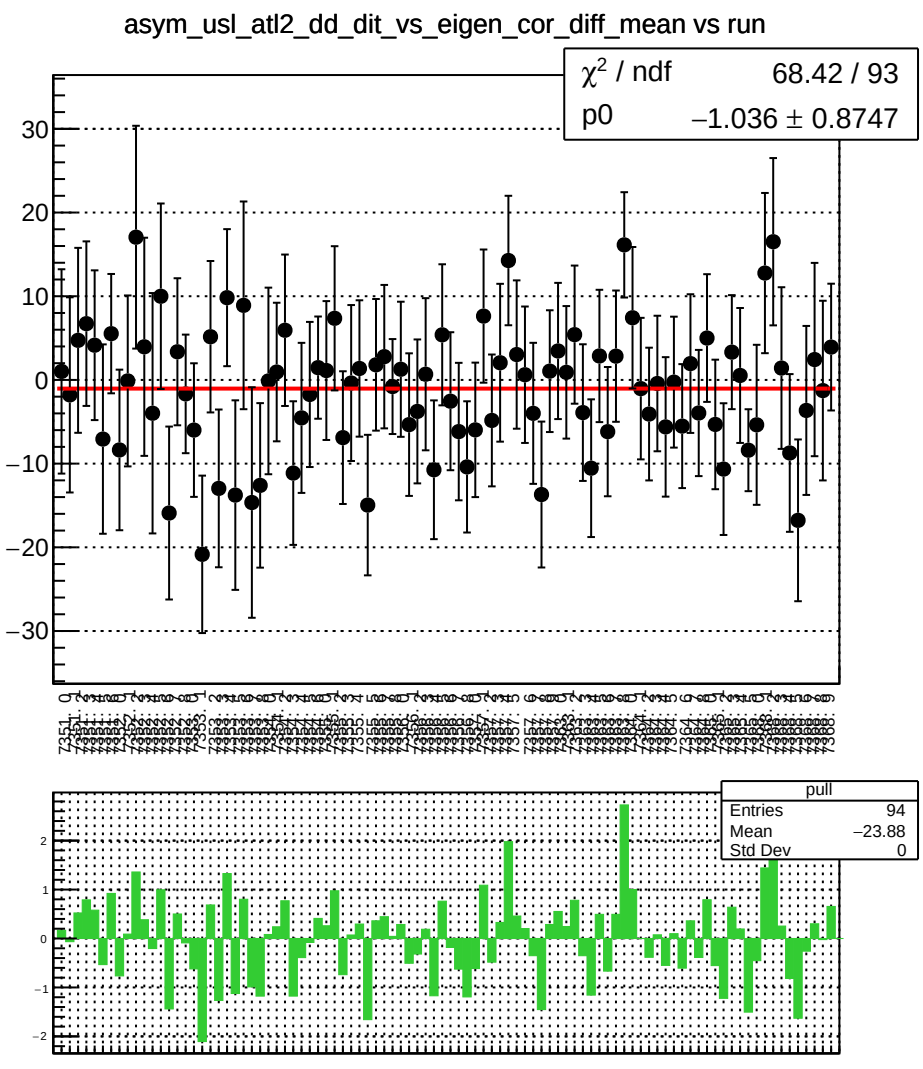

asym_usl_atl2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 118.9 / 93
p0 8.987e−15 ± 1.25e−13
pull
Entries 94
Mean 91.05
Std Dev 0
pull1D
Entries 94
Mean 0.02879
Std Dev 1.124

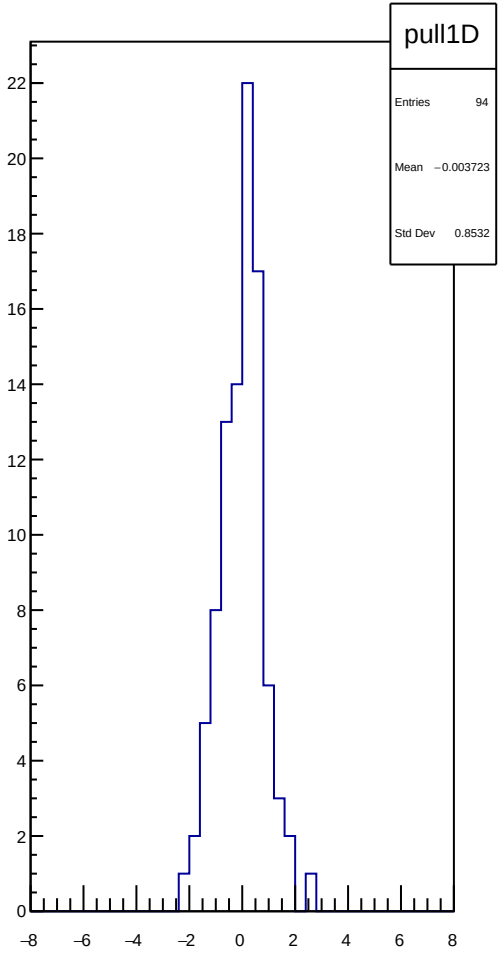

asym_usl_atl2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.395e+06 / 93
p0 5.752e−11 ± 8.838e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

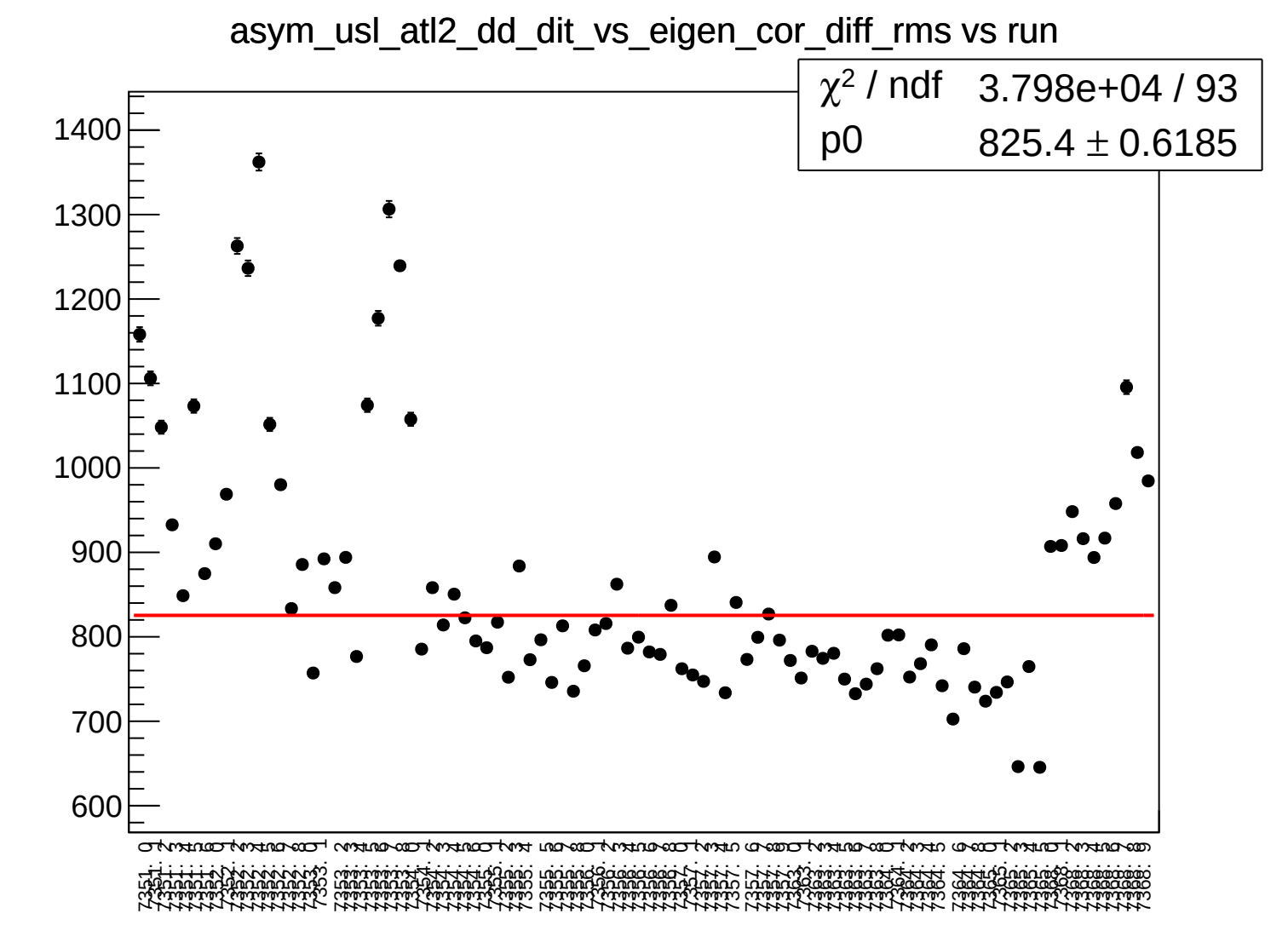

asym_usl_atl2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 68.42 / 93
p0 −1.036 ± 0.8747
pull
Entries 94
Mean −23.88
Std Dev 0

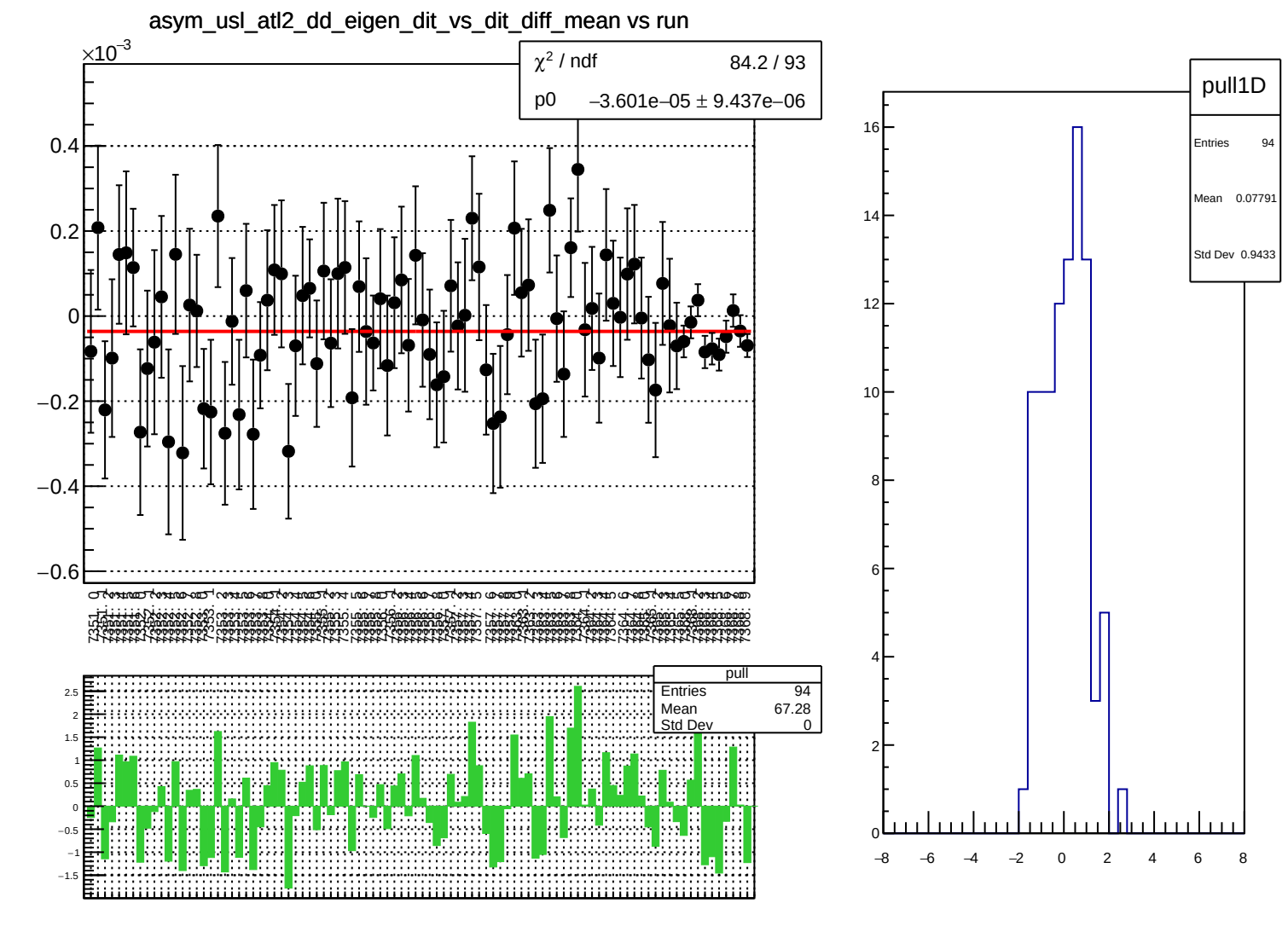

pull1D
Entries 94
Mean −0.003723
Std Dev 0.8532

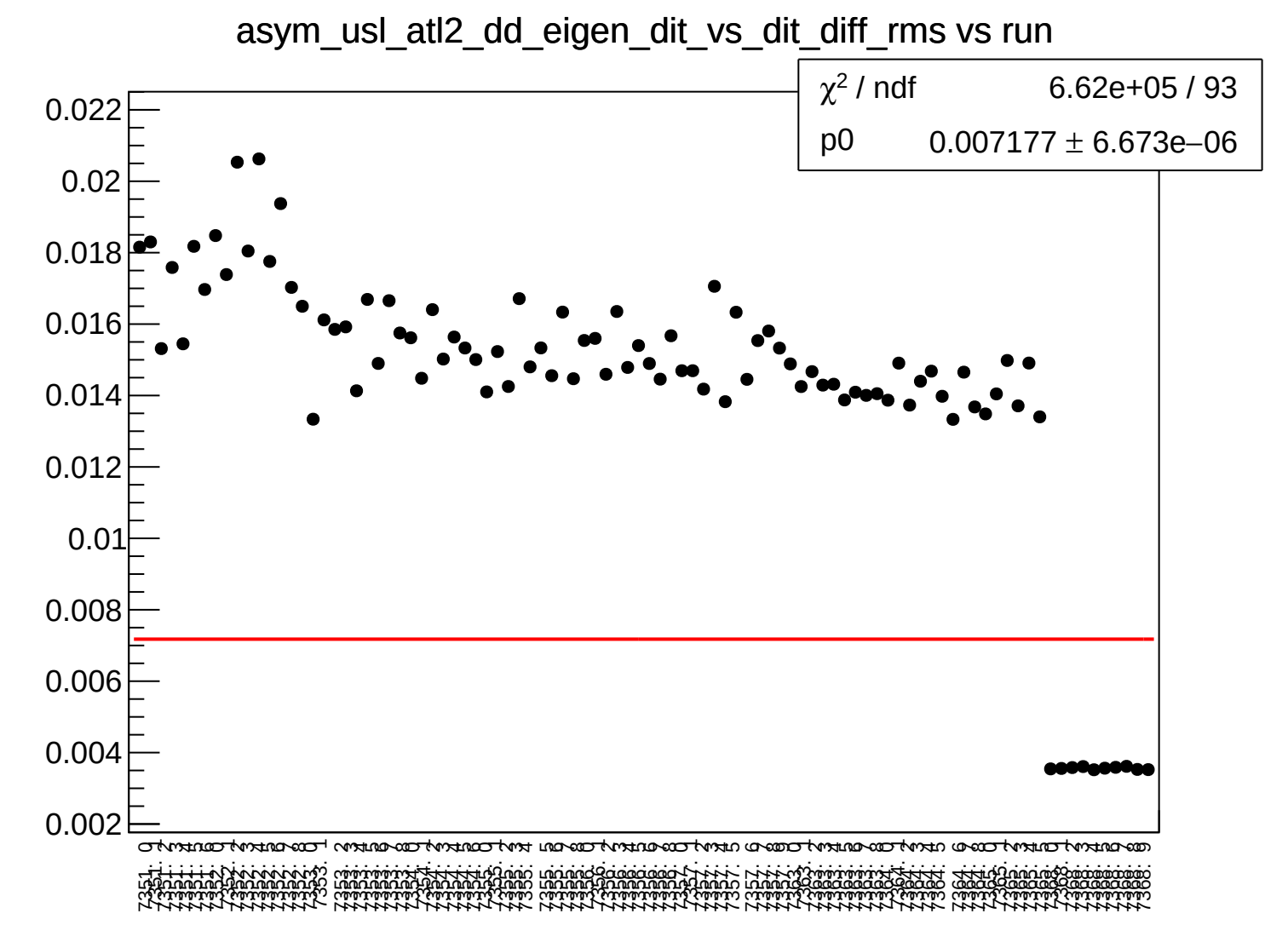

asym_usl_atl2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.798e+04 / 93
p0 825.4 ± 0.6185
1400
1300
1200
1100
1000
900
800
700
600

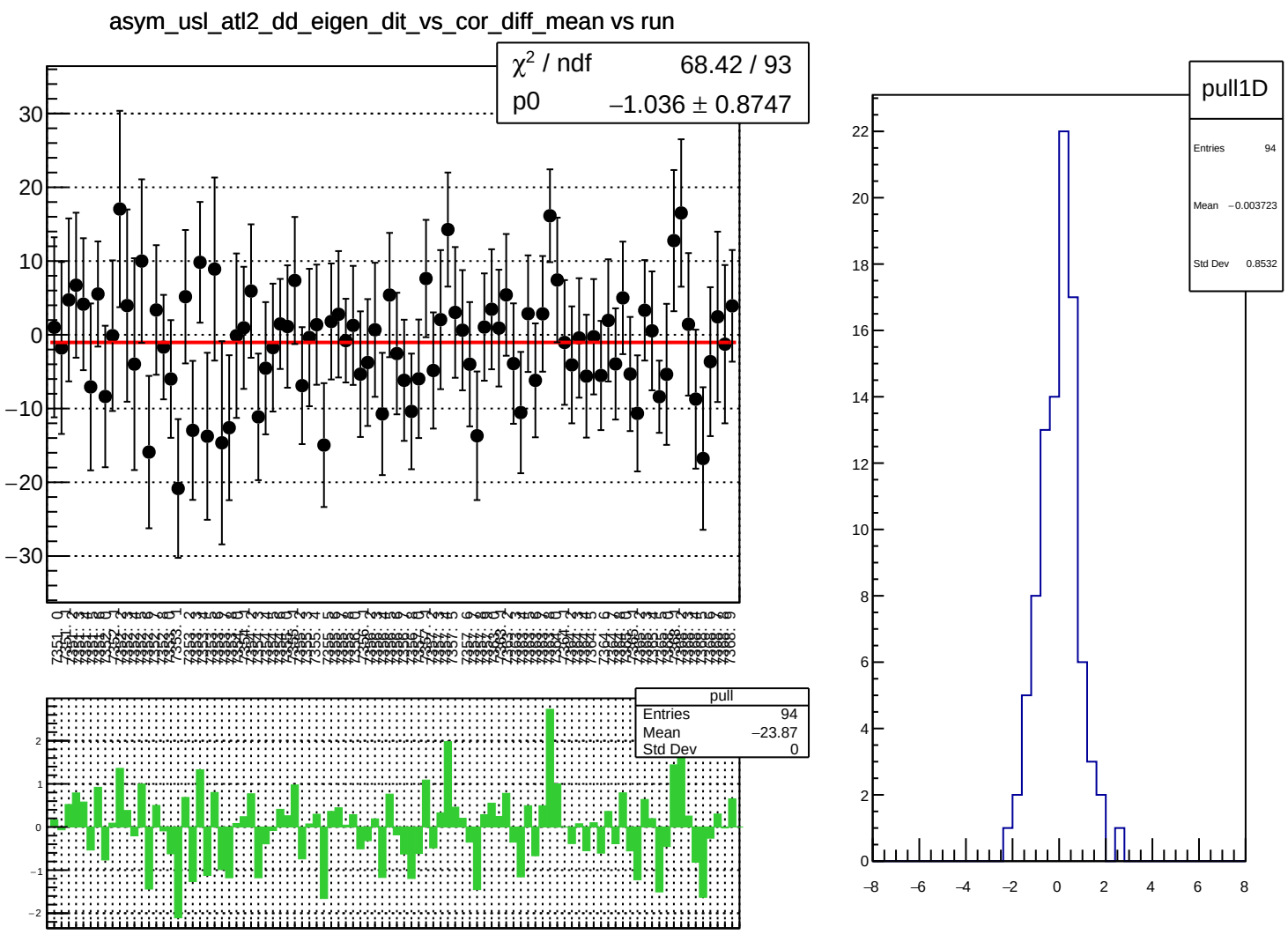

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.42 / 93
p0 −1.036 ± 0.8747
pull
Entries 94
Mean −23.88
Std Dev 0

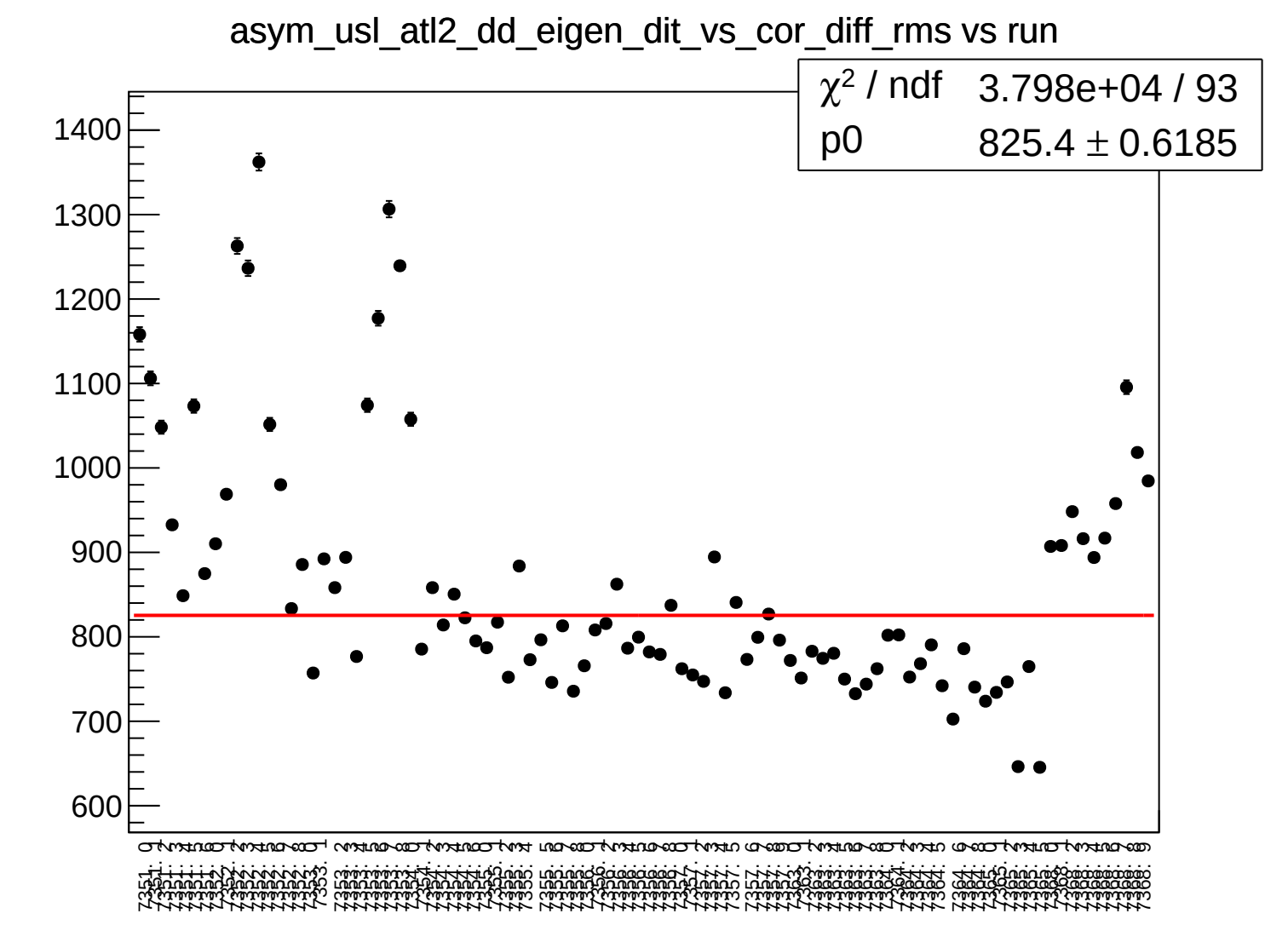

pull1D
Entries 94
Mean −0.003723
Std Dev 0.8532

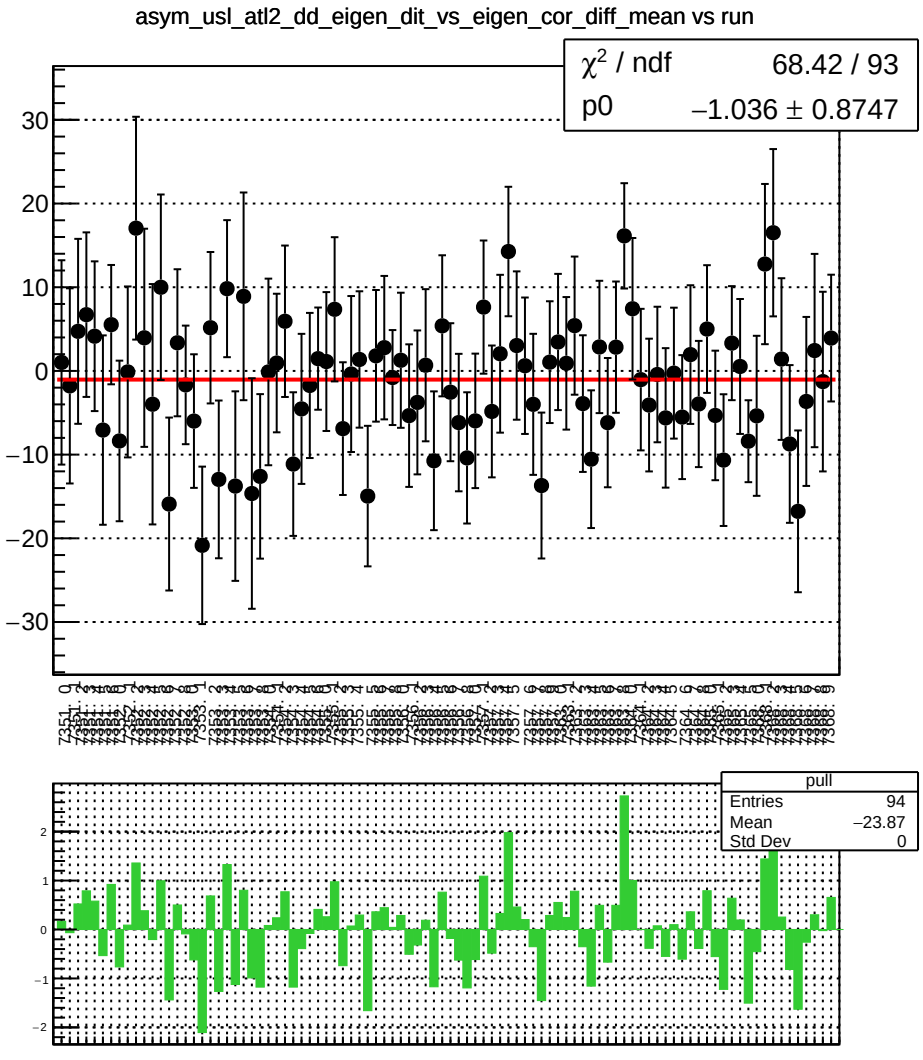

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.798e+04 / 93
p0 825.4 ± 0.6185
1400
1300
1200
1100
1000
900
800
700
600

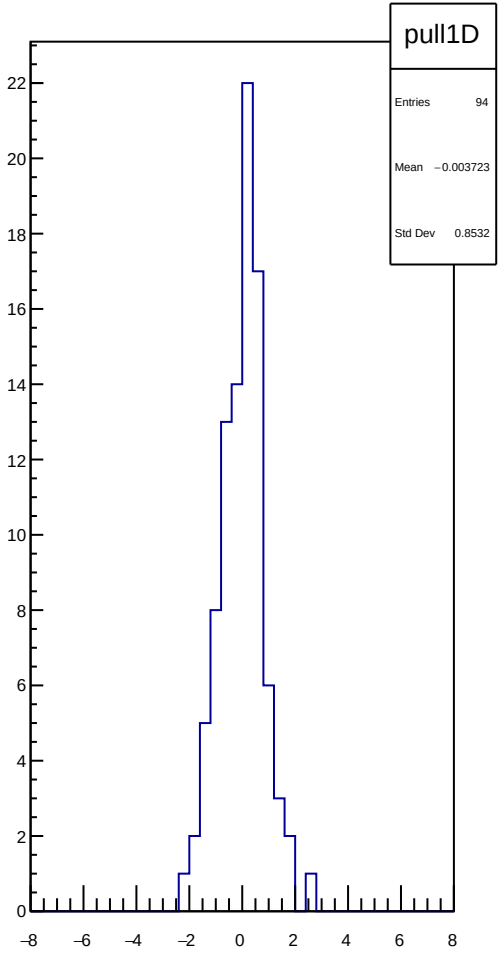

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 84.2 / 93
p0 −3.601e−05 ± 9.437e−06
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 94
Mean 67.28
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 94
Mean 0.07791
Std Dev 0.9433
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

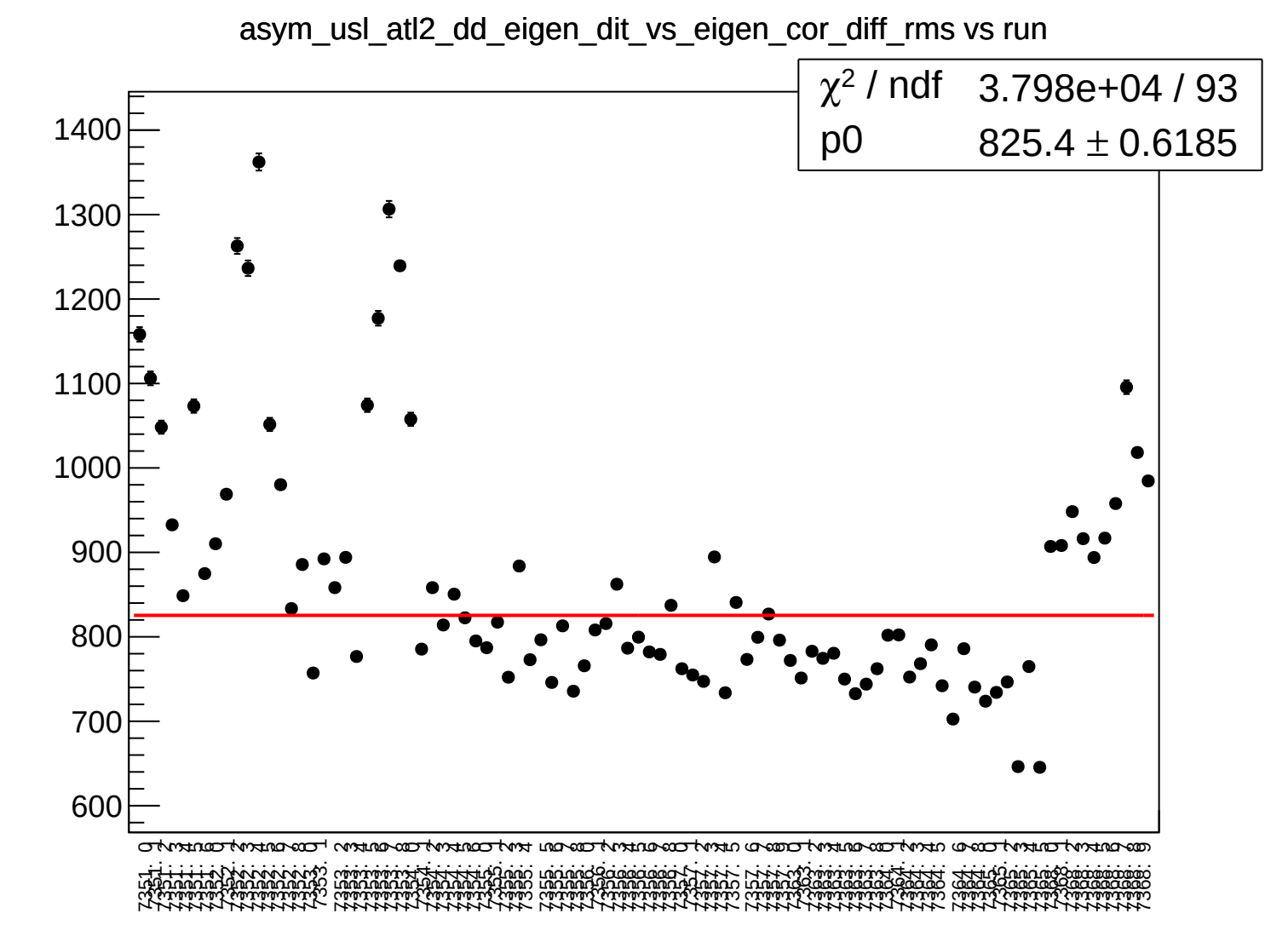

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.62e+05 / 93
p0 0.007177 ± 6.673e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

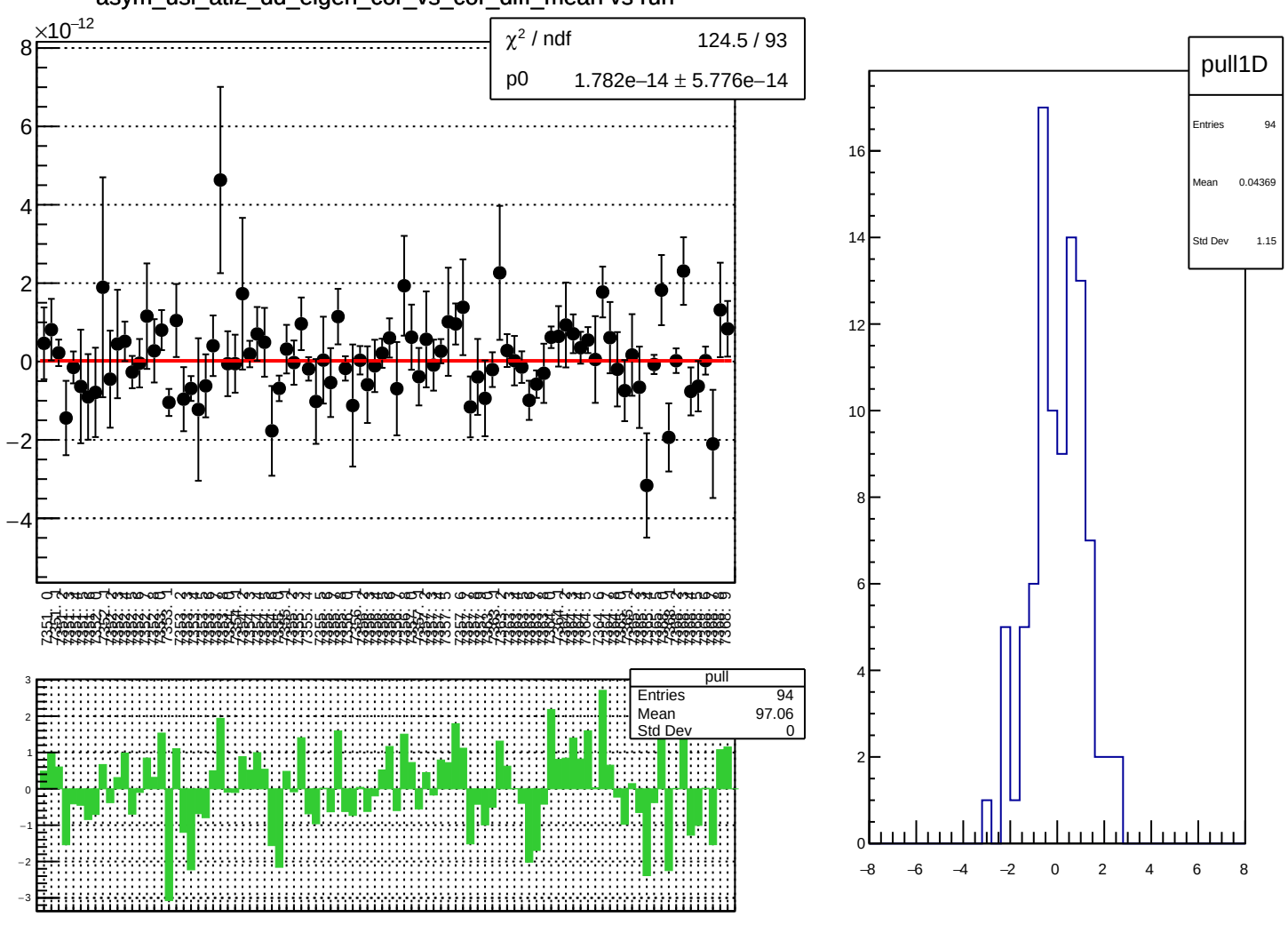

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 68.42 / 93
p0 −1.036 ± 0.8747
pull
Entries 94
Mean −23.87
Std Dev 0
pull1D
Entries 94
Mean −0.003723
Std Dev 0.8532

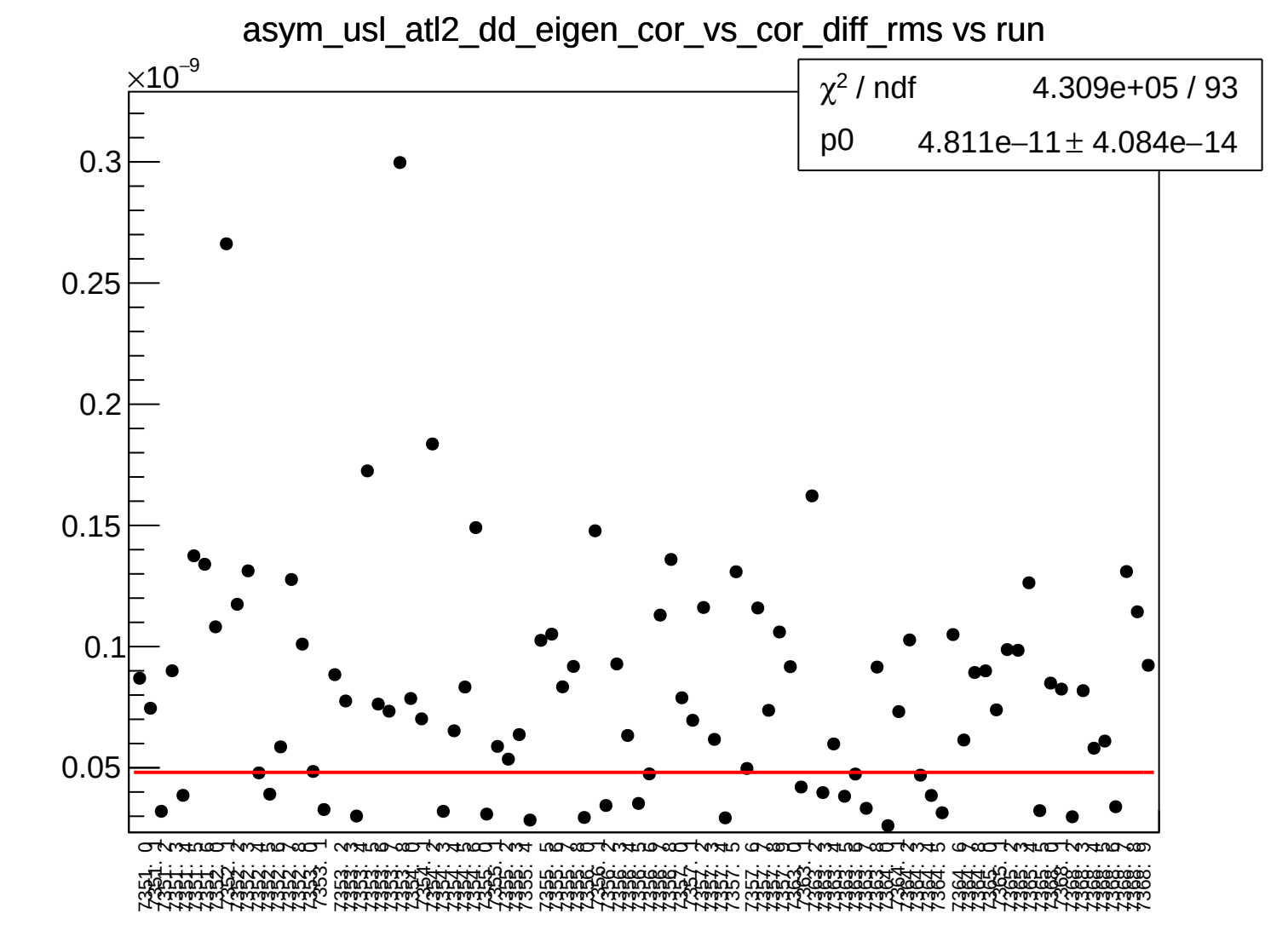

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.798e+04 / 93
p0 825.4 ± 0.6185
1400
1300
1200
1100
1000
900
800
700
600

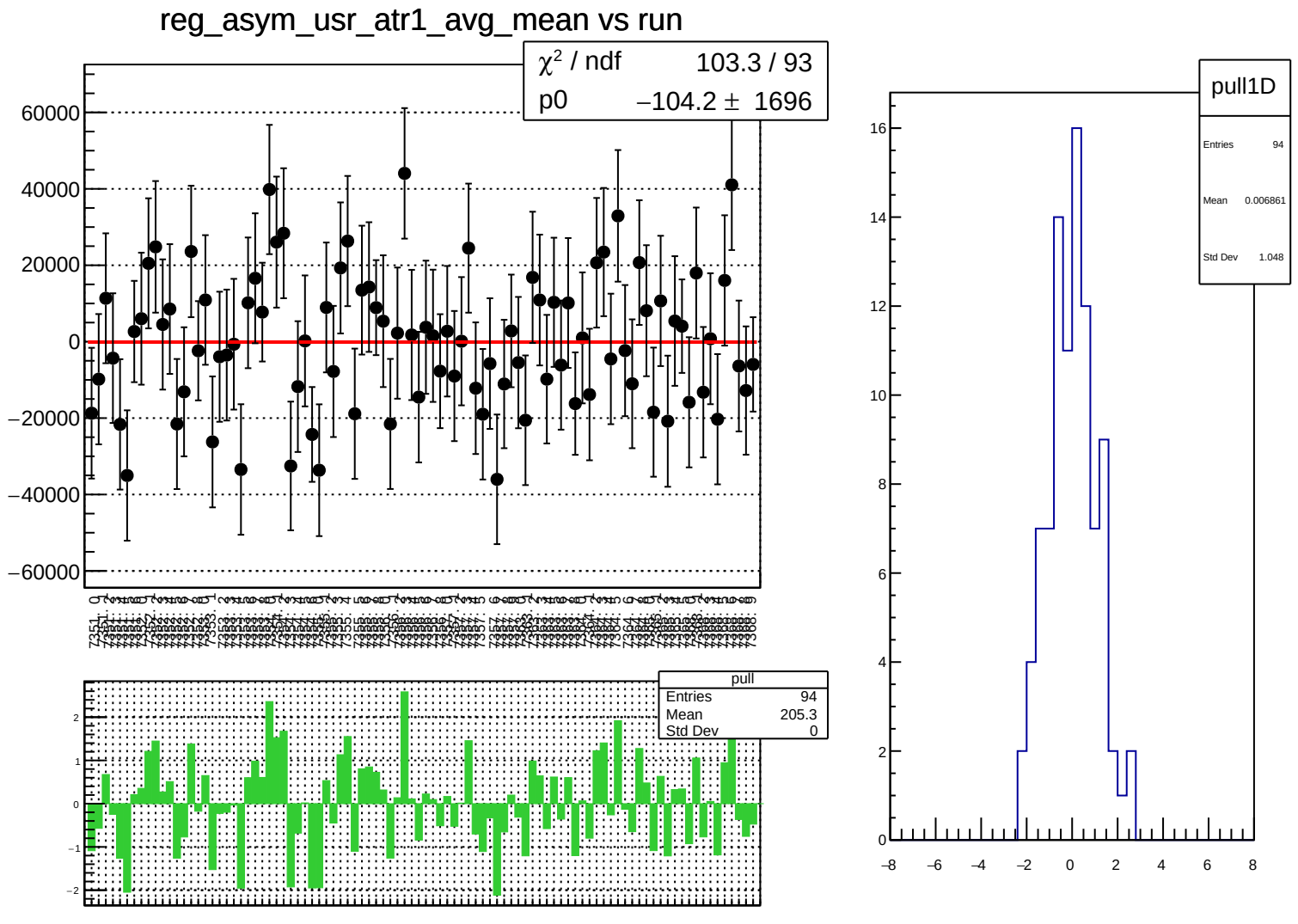

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.42 / 93
p0 −1.036 ± 0.8747
pull
Entries 94
Mean −23.87
Std Dev 0

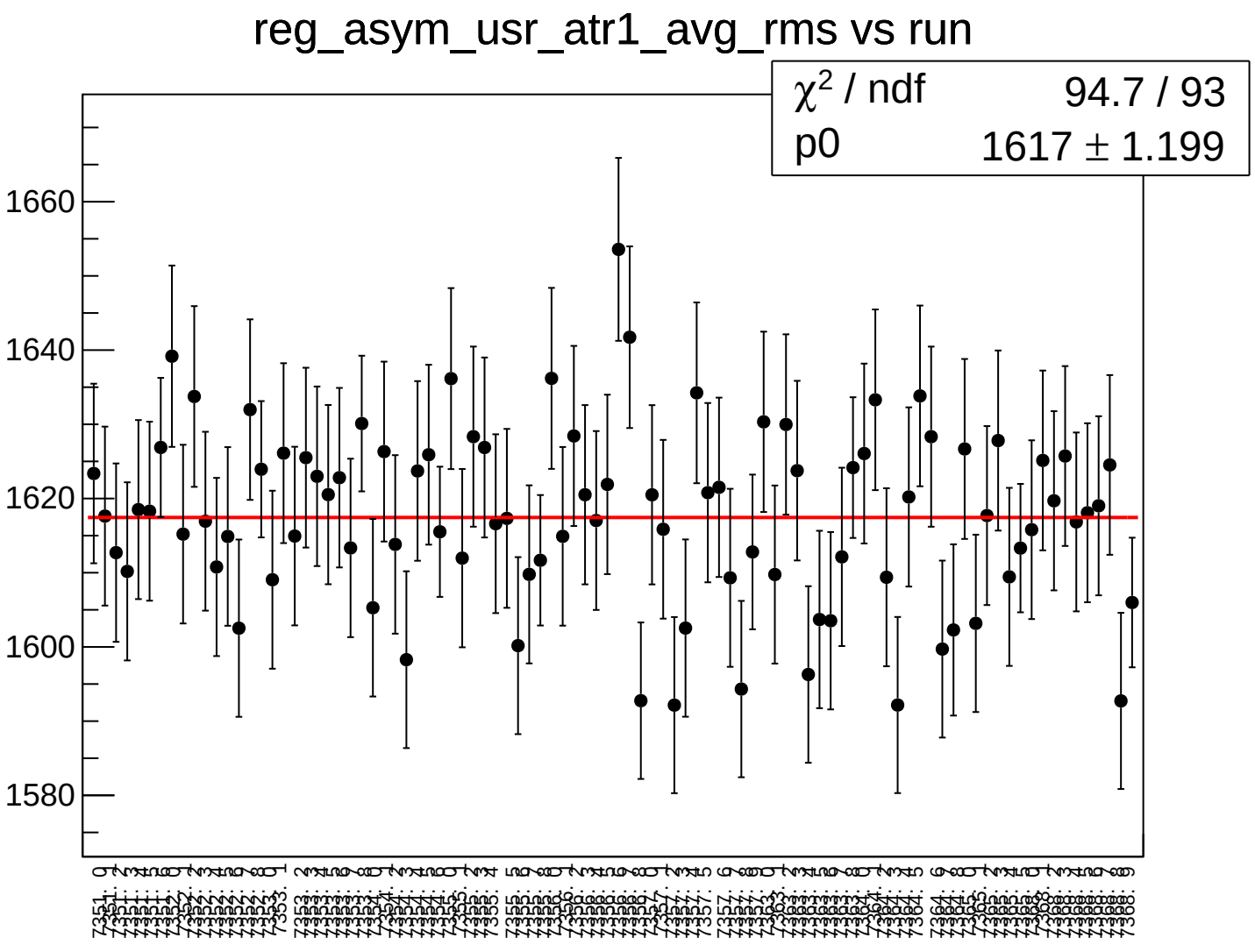

pull1D
Entries 94
Mean −0.003723
Std Dev 0.8532

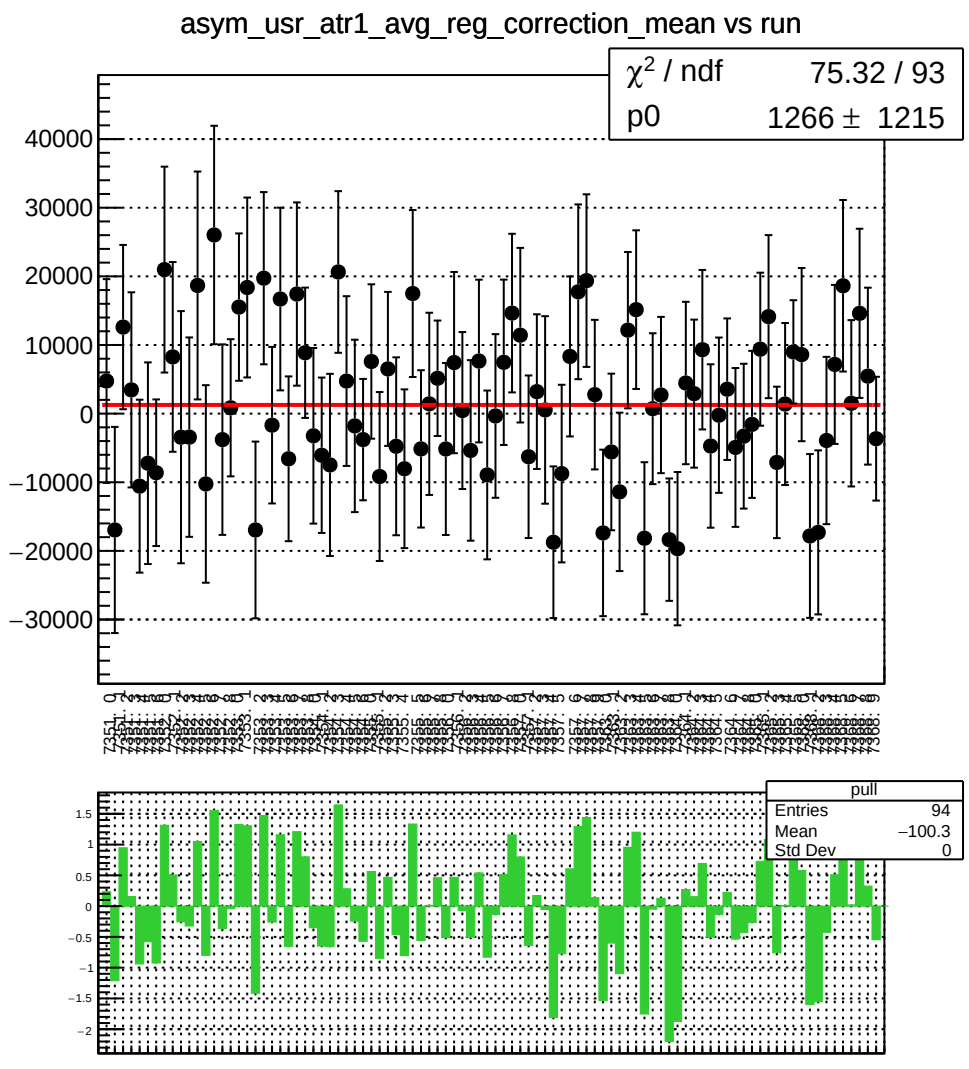

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.798e+04 / 93
p0 825.4 ± 0.6185
1400
1300
1200
1100
1000
900
800
700
600

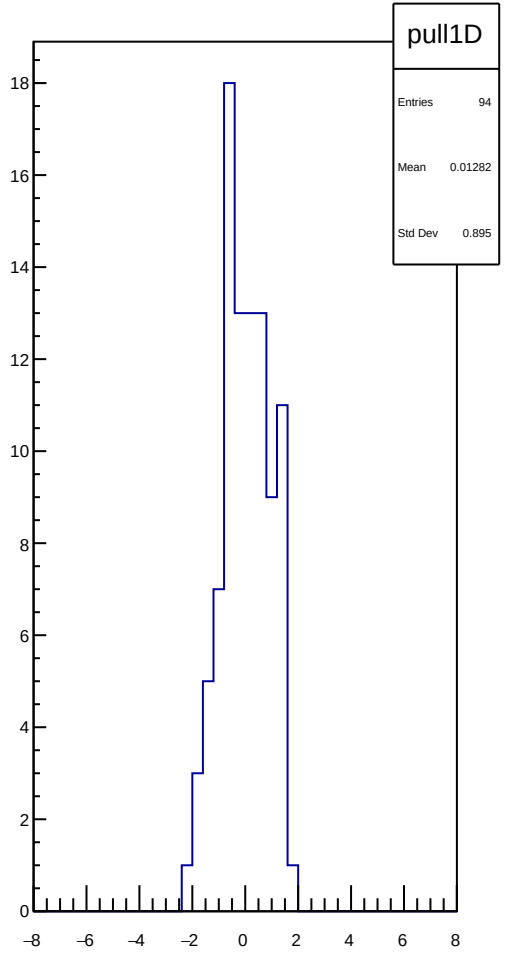

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 124.5 / 93
p0 1.782e−14 ± 5.776e−14
pull
Entries 94
Mean 97.06
Std Dev 0
pull1D
Entries 94
Mean 0.04369
Std Dev 1.15

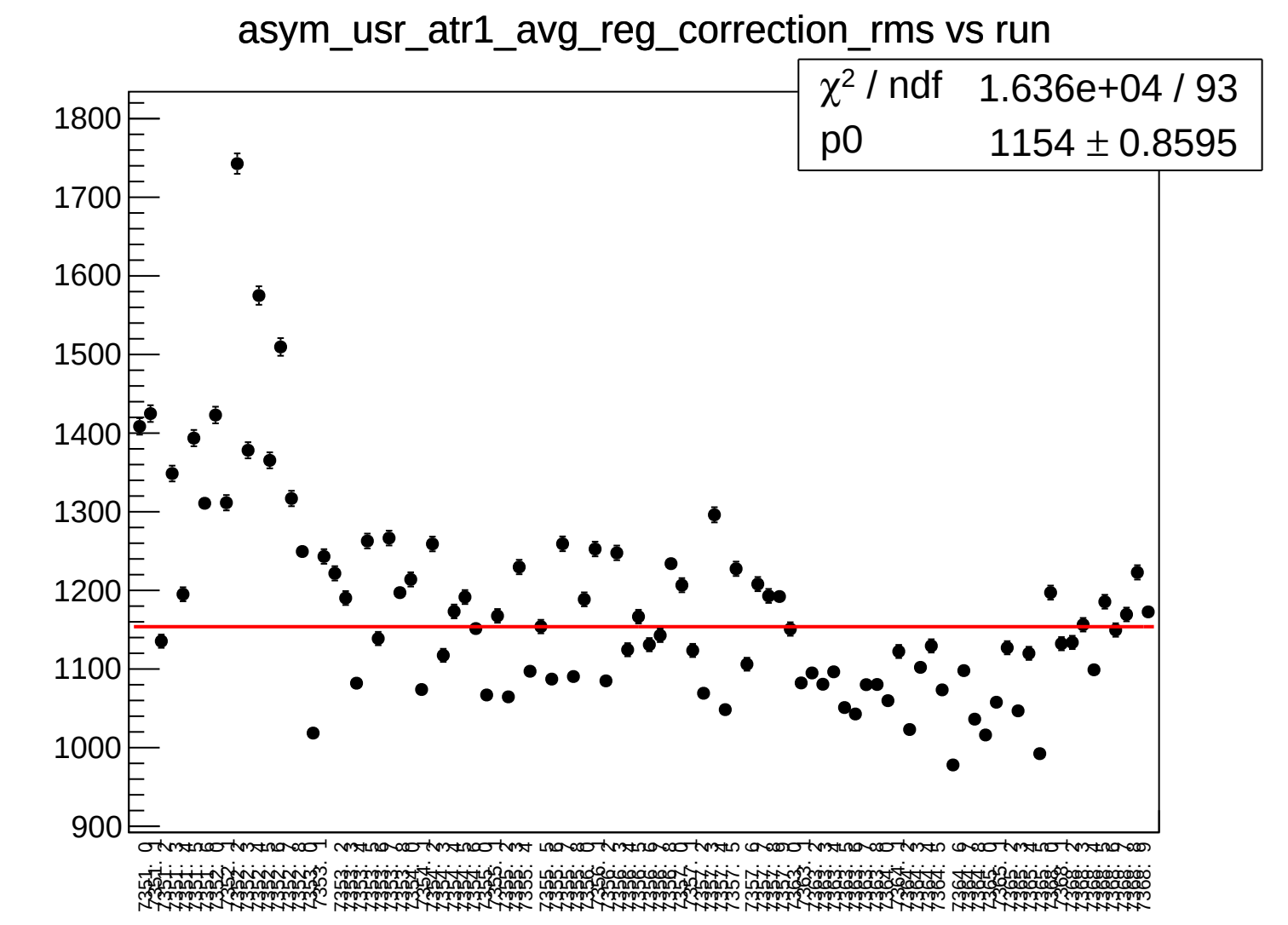

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.309e+05 / 93
p0 4.811e−11 ± 4.084e−14
0.3
0.25
0.2
0.15
0.1
0.05

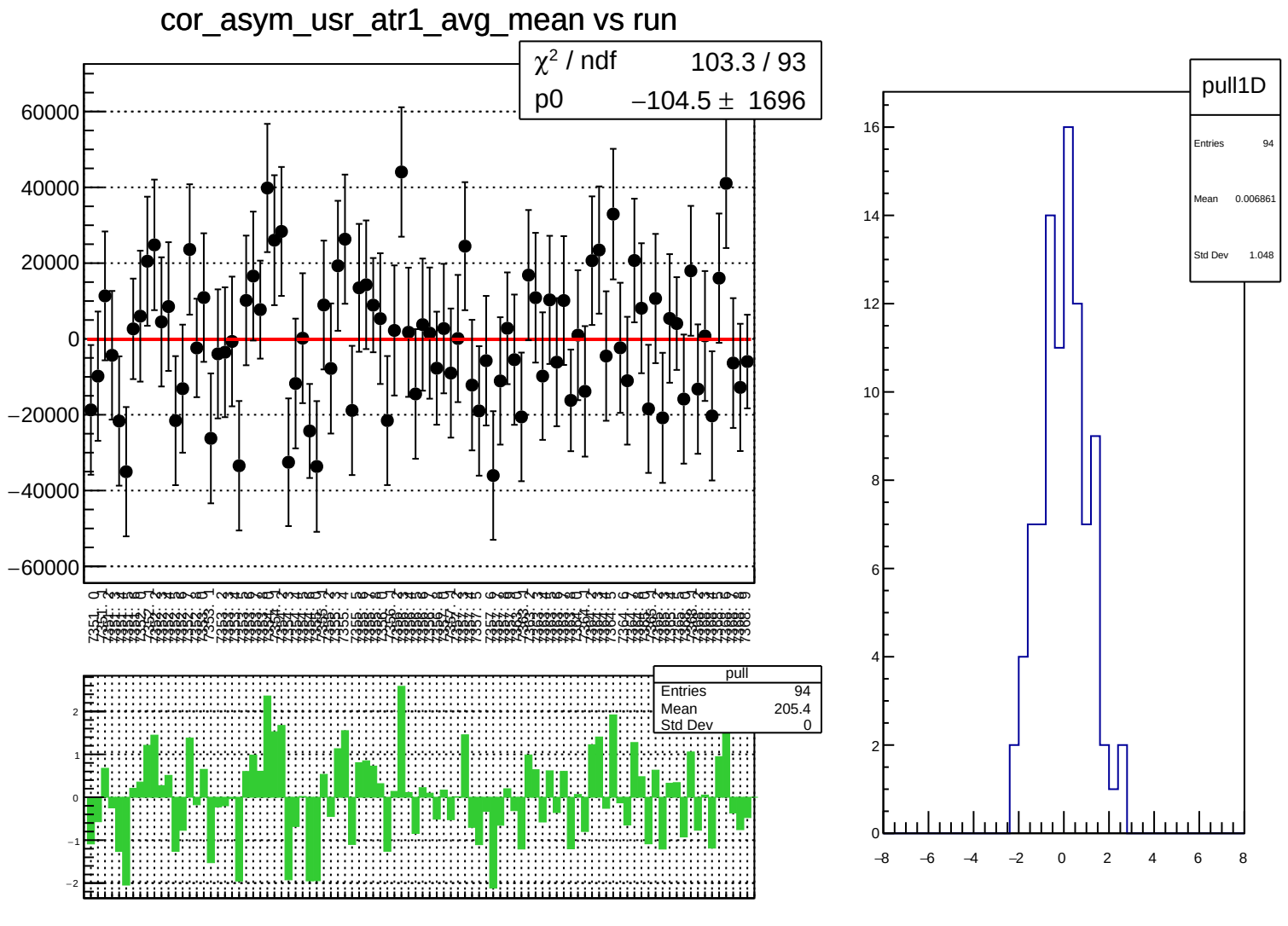

reg_asym_usr_atr1_avg_mean vs run
χ² / ndf 103.3 / 93
p0 −104.2 ± 1696
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 205.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.006861
Std Dev 1.048
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

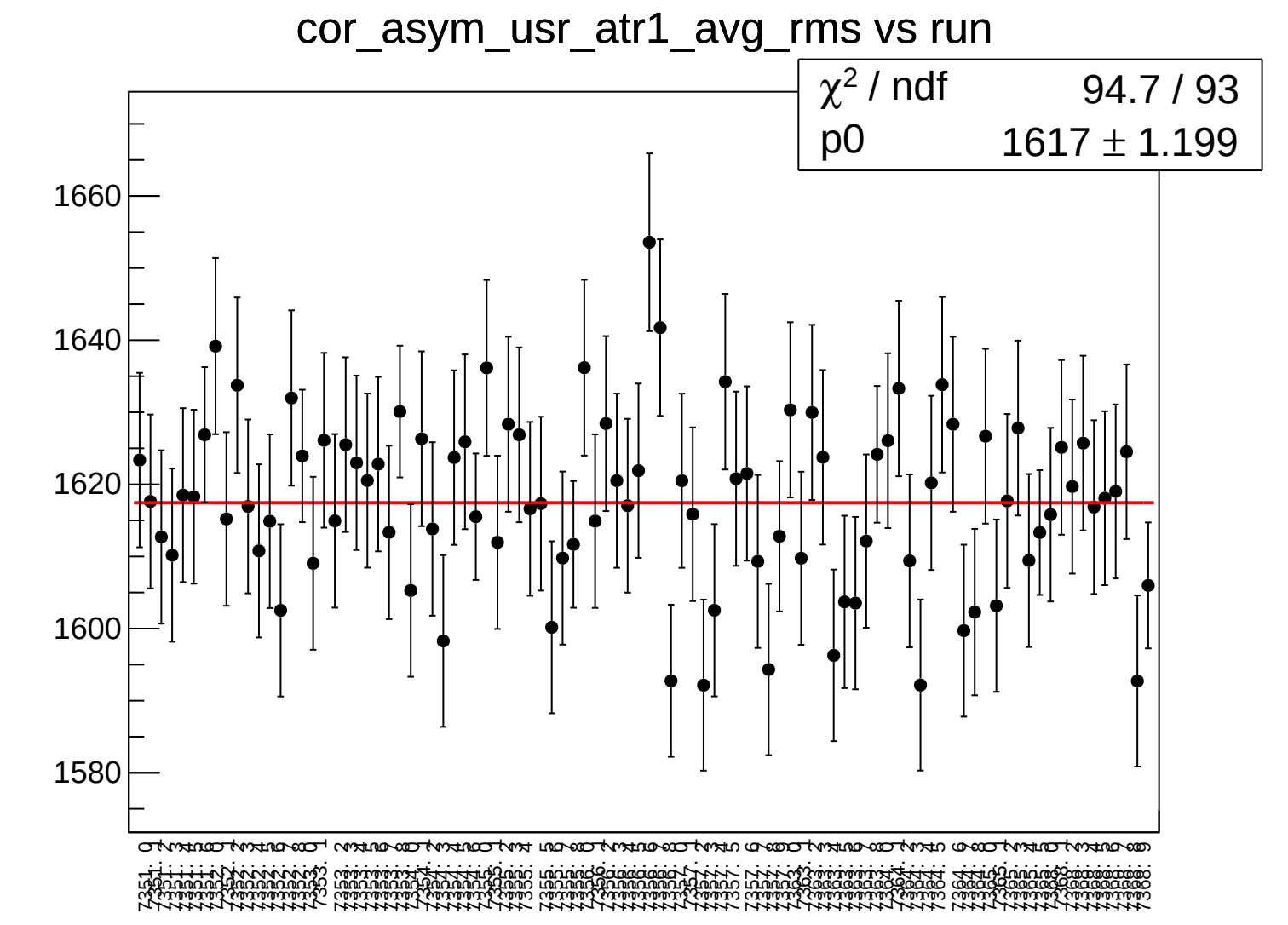

reg_asym_usr_atr1_avg_rms vs run
χ² / ndf 94.7 / 93
p0 1617 ± 1.199
1660
1640
1620
1600
1580

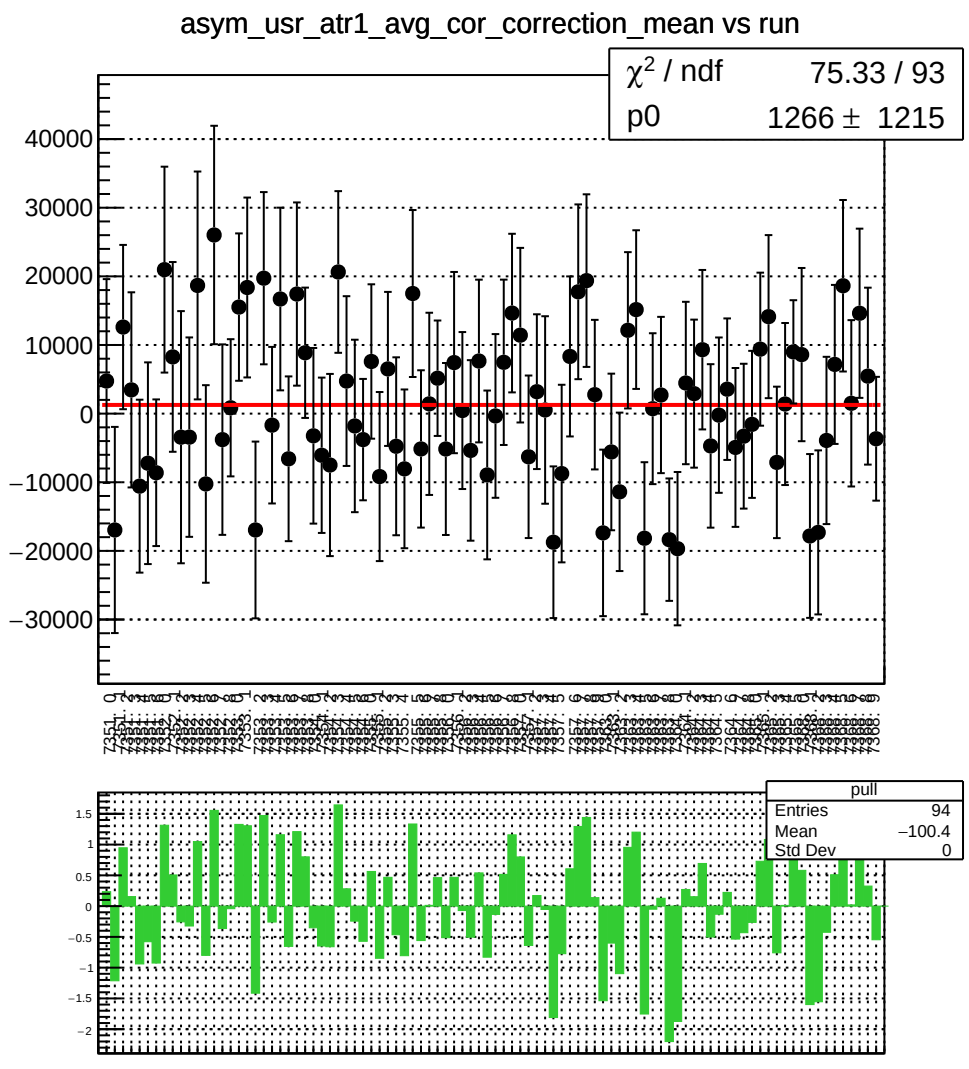

asym_usr_atr1_avg_reg_correction_mean vs run
χ² / ndf 75.32 / 93
p0 1266 ± 1215
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −100.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

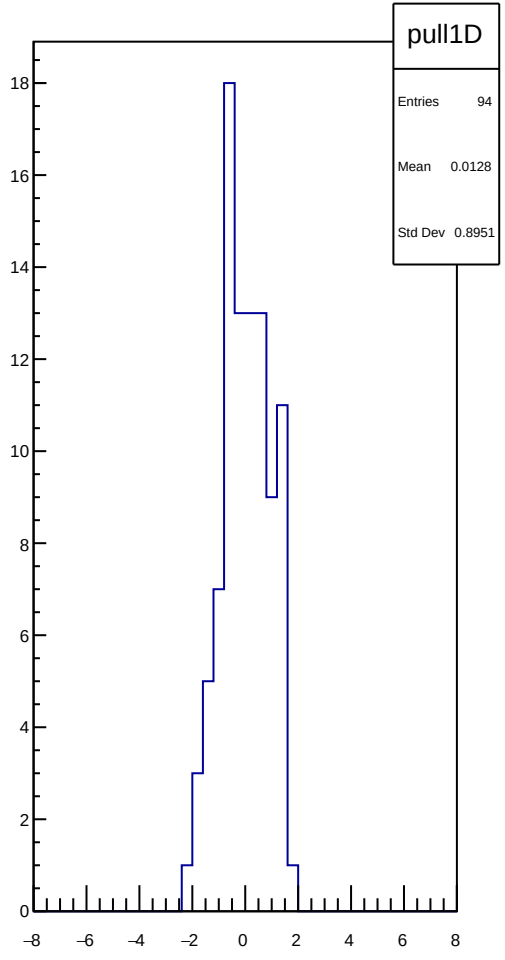

pull1D
Entries 94
Mean 0.01282
Std Dev 0.895
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

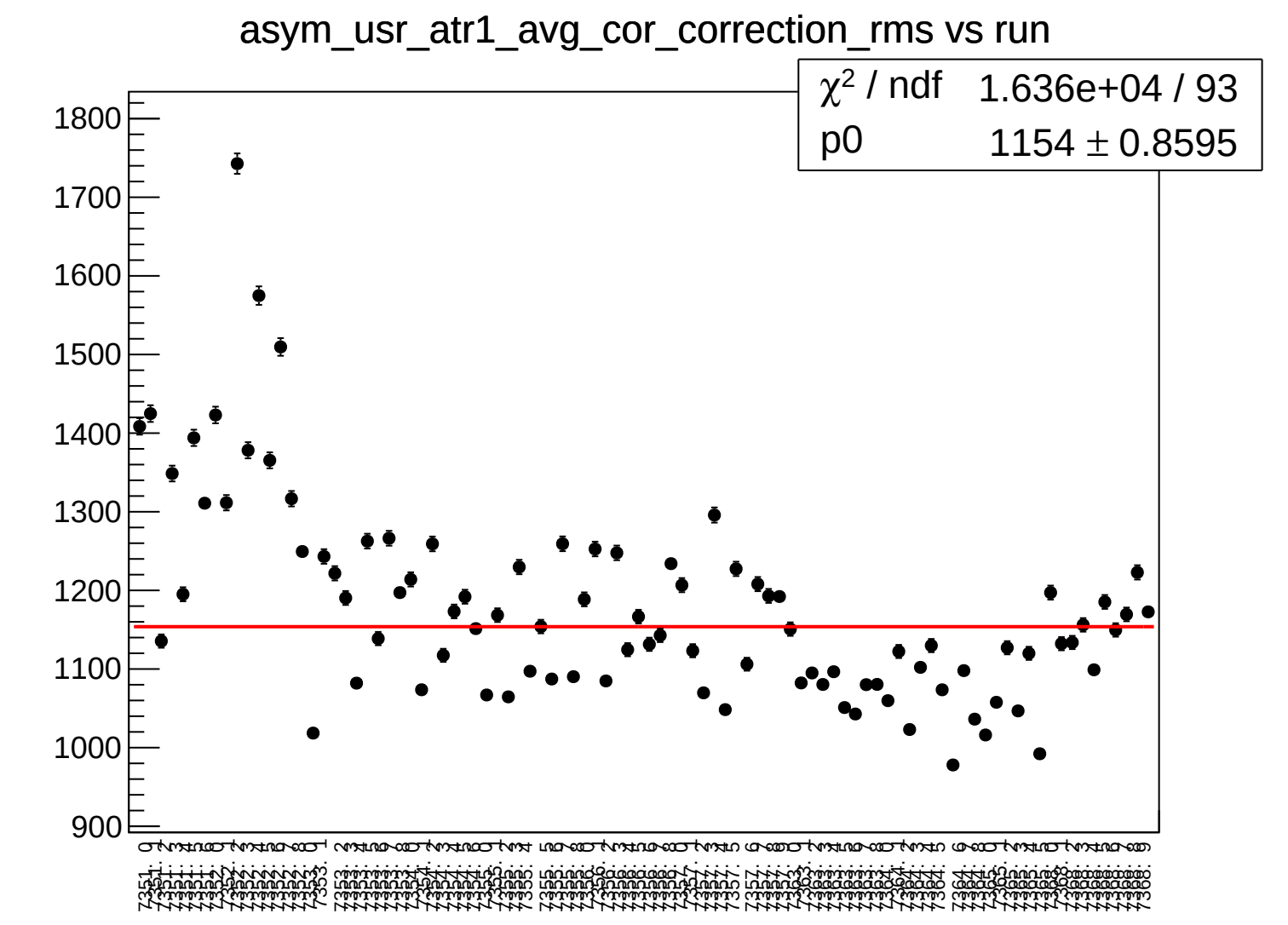

asym_usr_atr1_avg_reg_correction_rms vs run
χ² / ndf 1.636e+04 / 93
p0 1154 ± 0.8595
1800
1700
1600
1500
1400
1300
1200
1100
1000
900

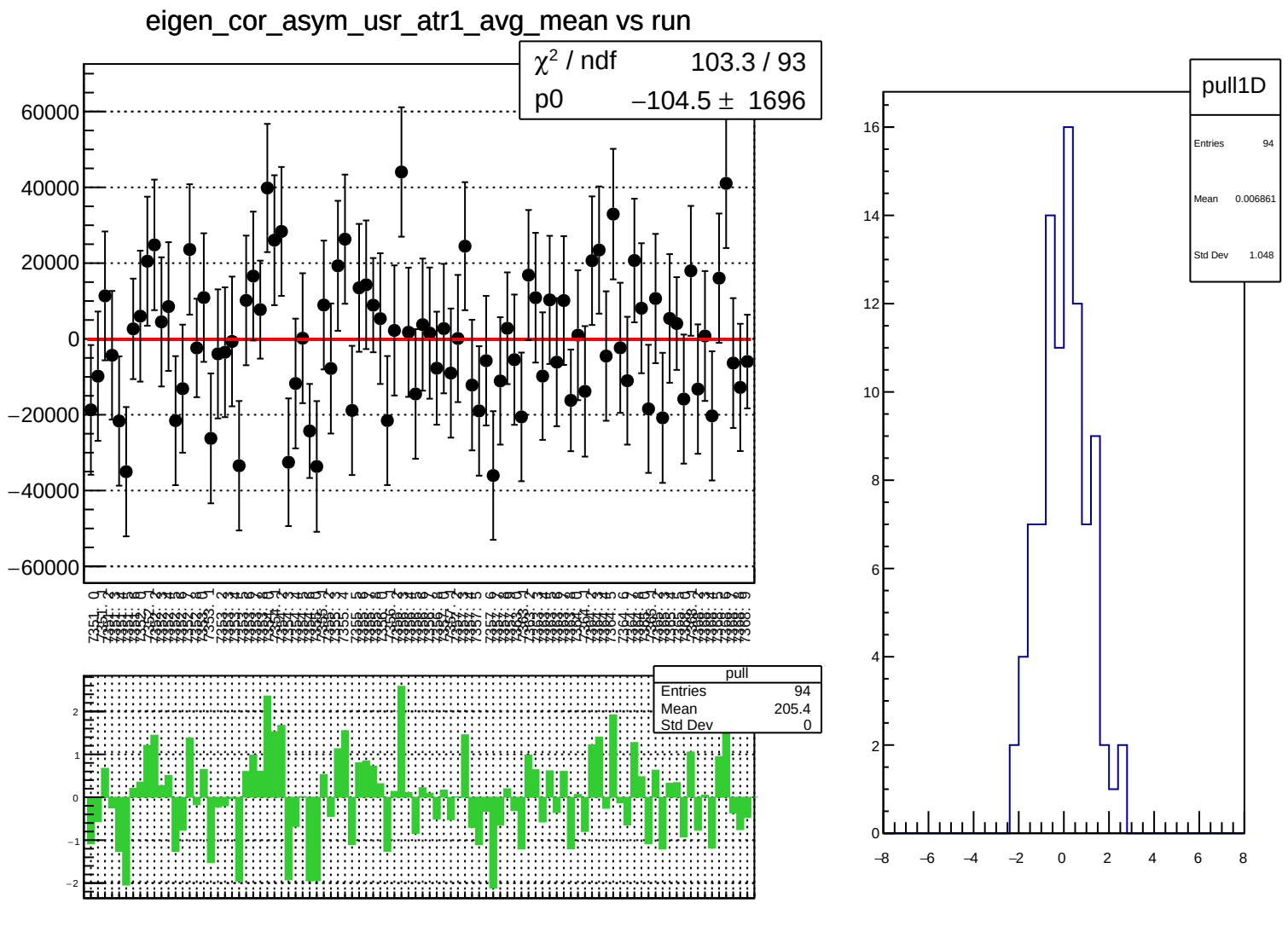

cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 103.3 / 93
p0 −104.5 ± 1696
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 205.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.006861
Std Dev 1.048
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

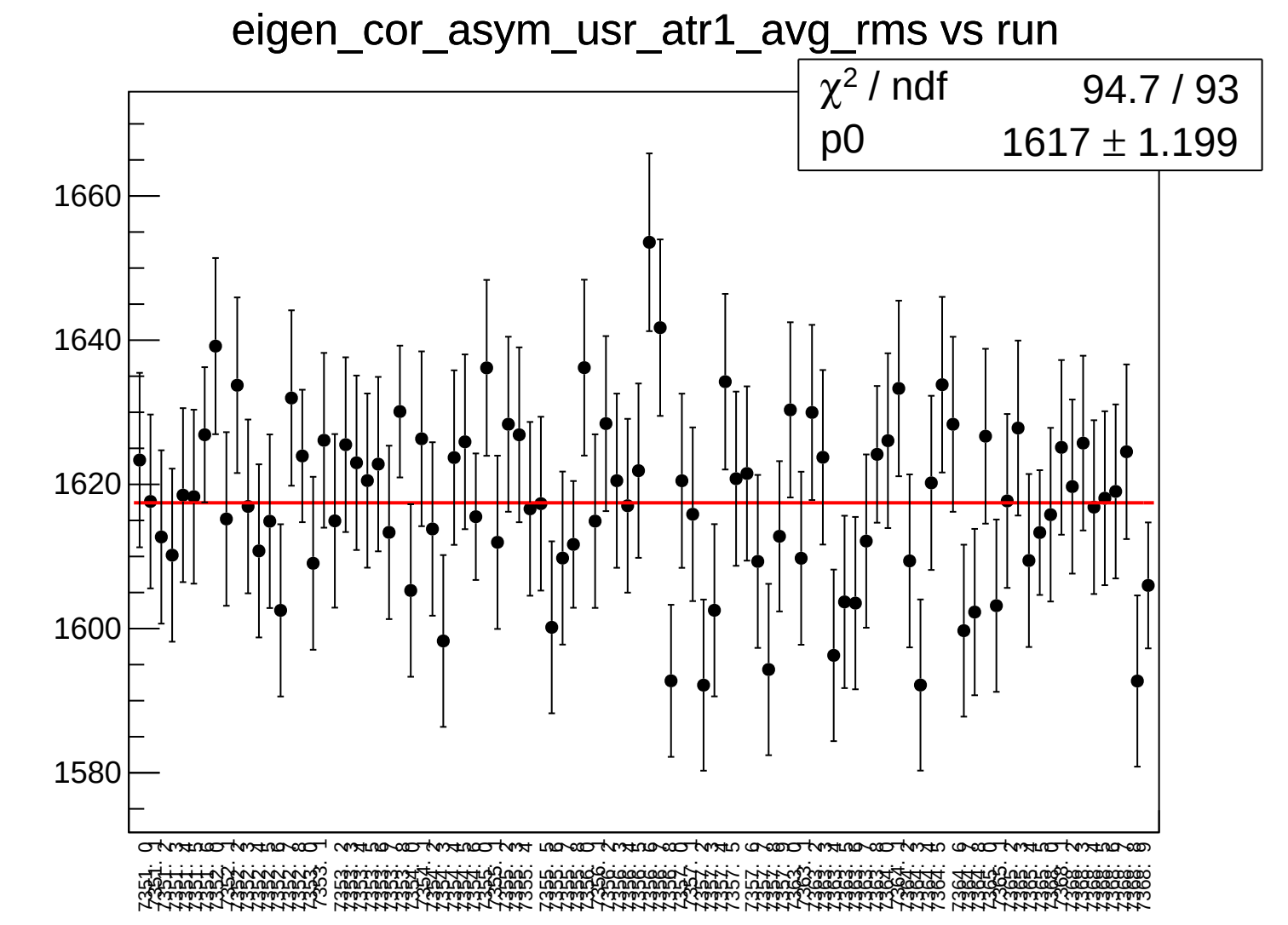

cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 94.7 / 93
p0 1617 ± 1.199
1660
1640
1620
1600
1580

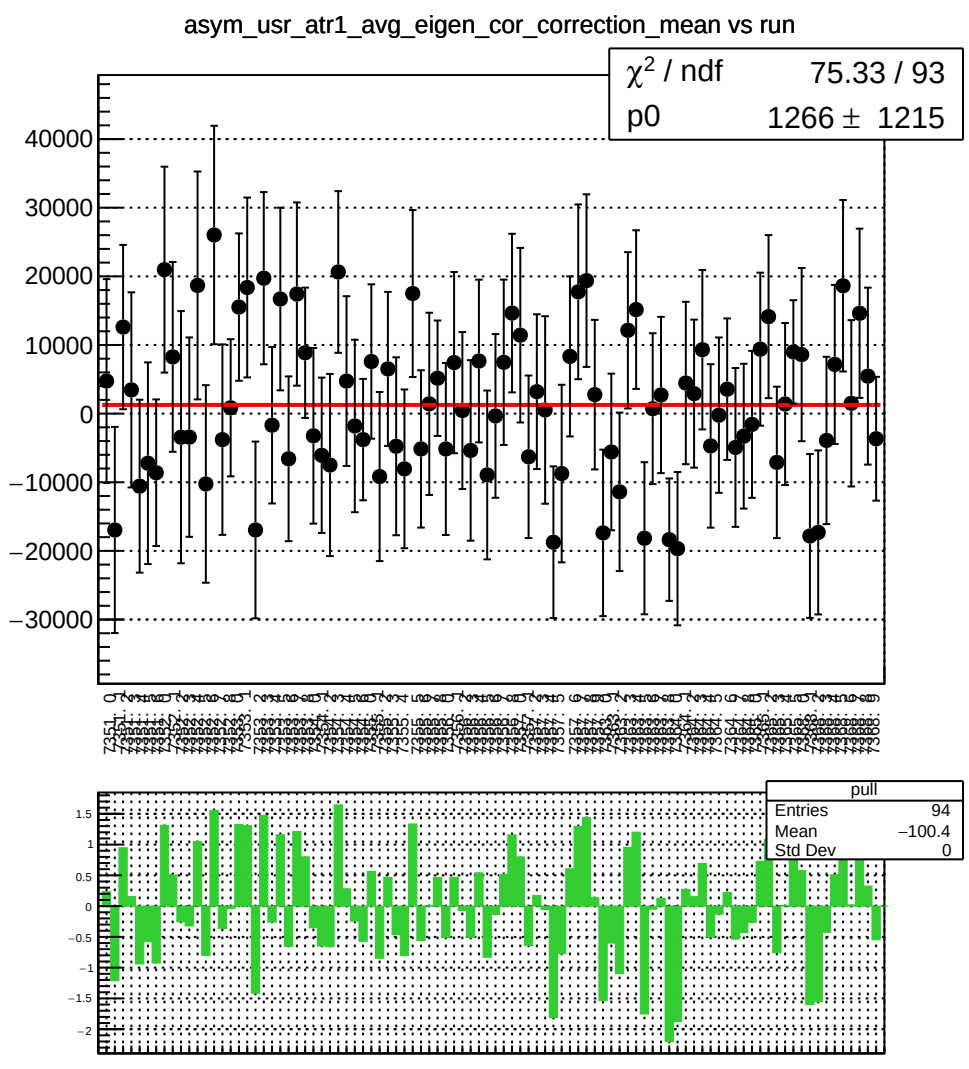

asym_usr_atr1_avg_cor_correction_mean vs run
χ² / ndf 75.33 / 93
p0 1266 ± 1215
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −100.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

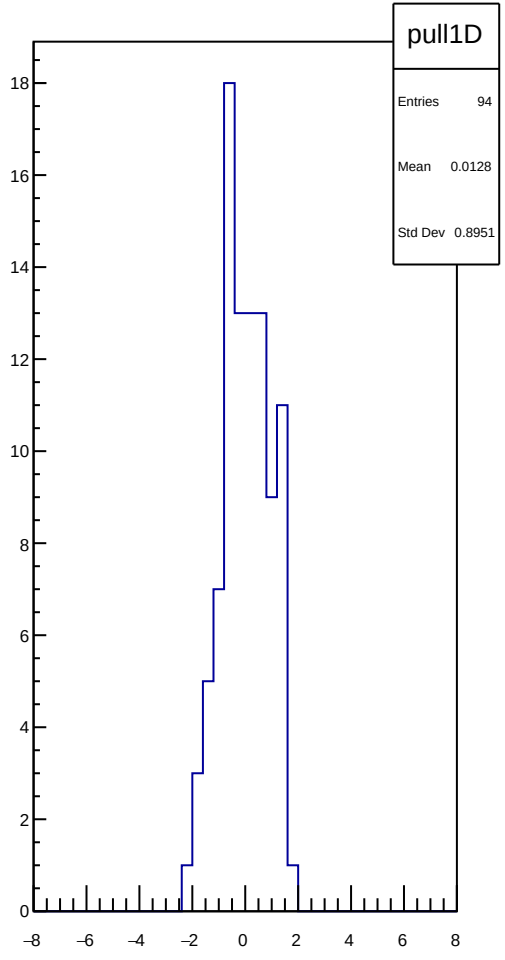

pull1D
Entries 94
Mean 0.0128
Std Dev 0.8951
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

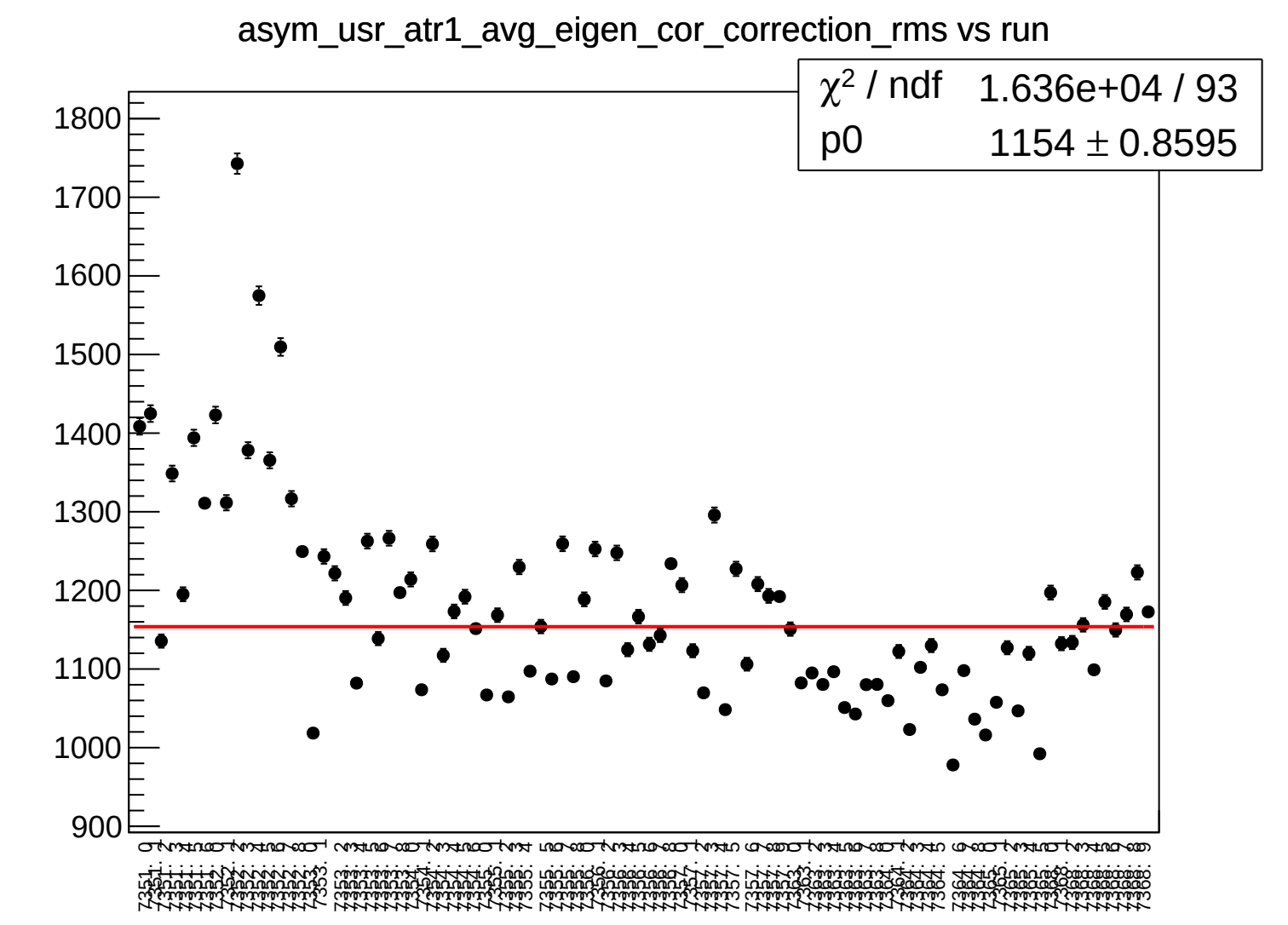

asym_usr_atr1_avg_cor_correction_rms vs run
χ² / ndf 1.636e+04 / 93
p0 1154 ± 0.8595
1800
1700
1600
1500
1400
1300
1200
1100
1000
900

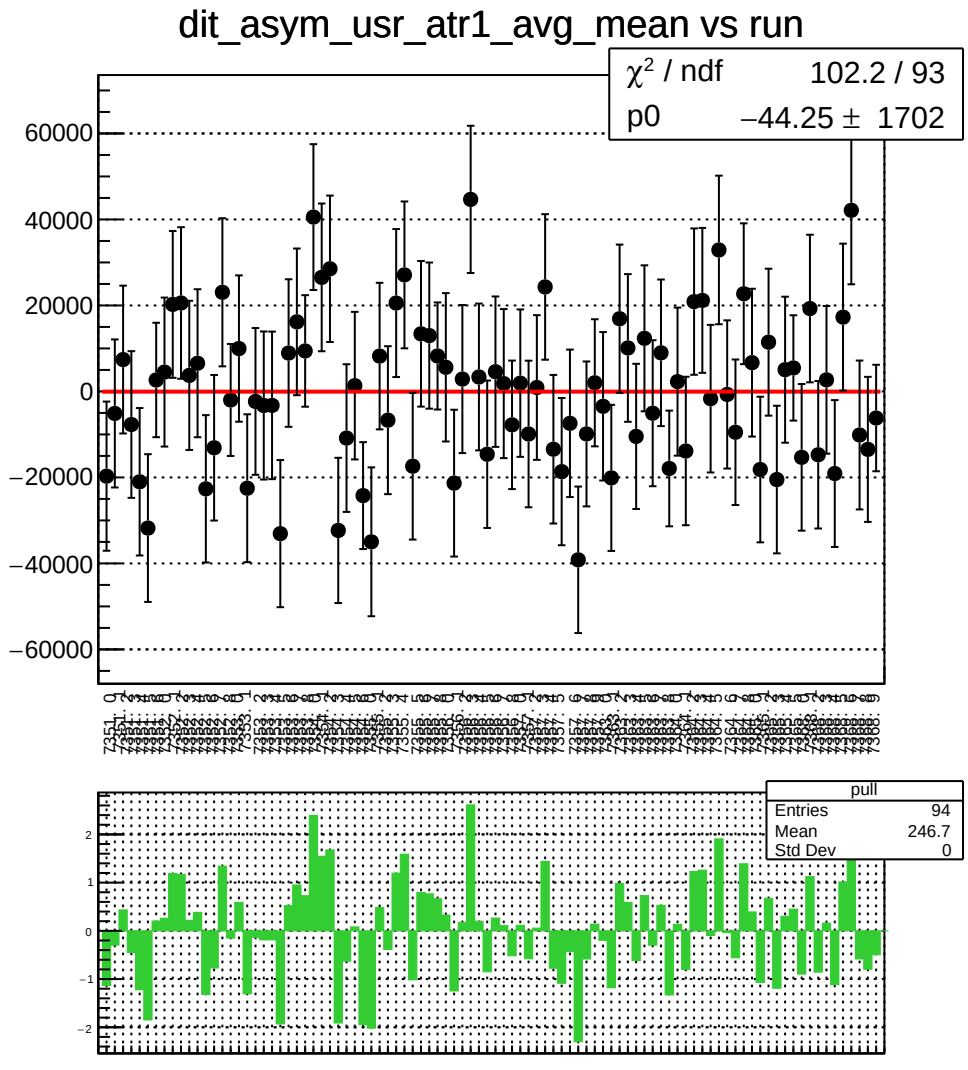

eigen_cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 103.3 / 93
p0 −104.5 ± 1696
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 205.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.006861
Std Dev 1.048
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

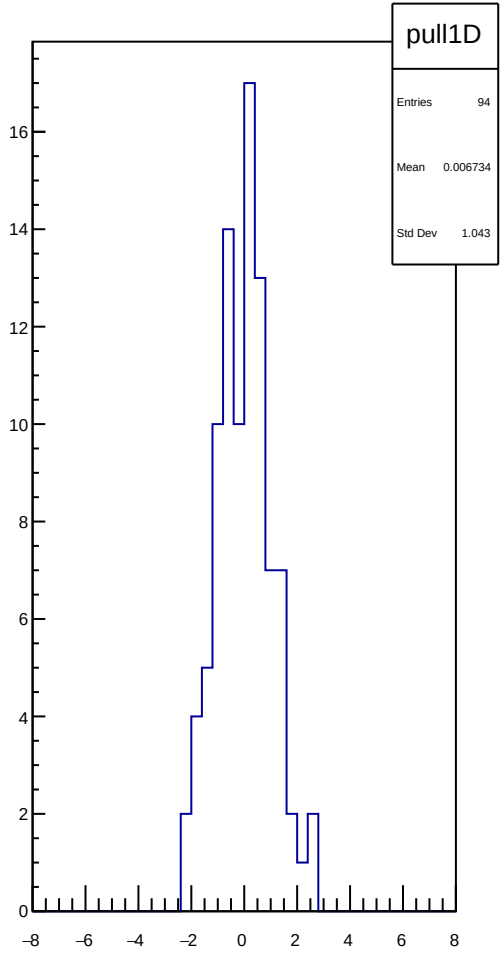

eigen_cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 94.7 / 93
p0 1617 ± 1.199
1660
1640
1620
1600
1580

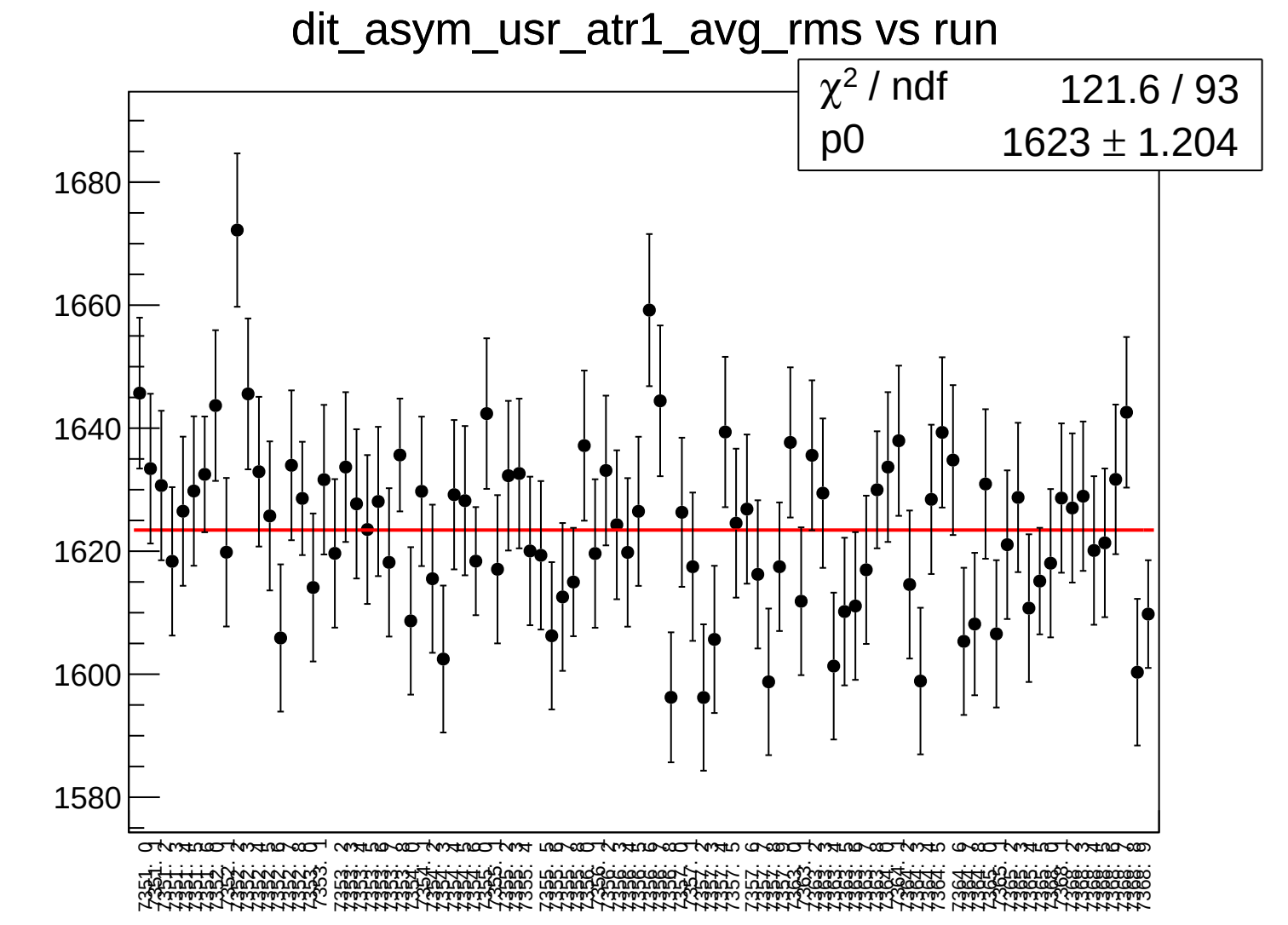

asym_usr_atr1_avg_eigen_cor_correction_mean vs run
χ² / ndf 75.33 / 93
p0 1266 ± 1215
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −100.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

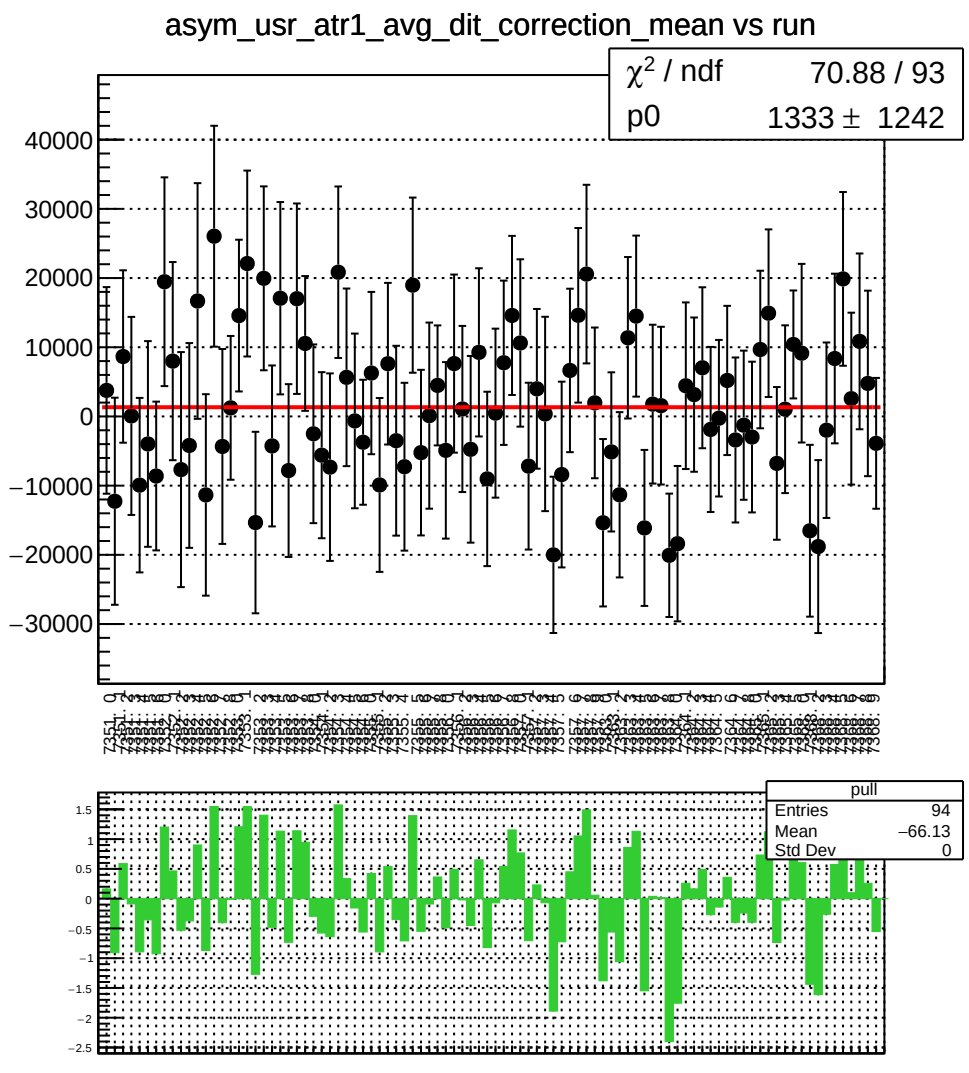

pull1D
Entries 94
Mean 0.0128
Std Dev 0.8951
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

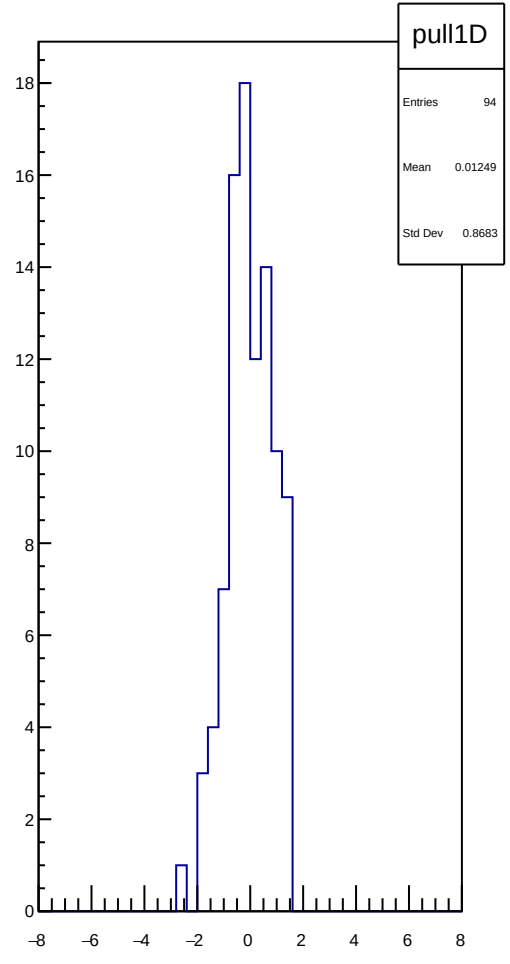

asym_usr_atr1_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.636e+04 / 93
p0 1154 ± 0.8595
1800
1700
1600
1500
1400
1300
1200
1100
1000
900

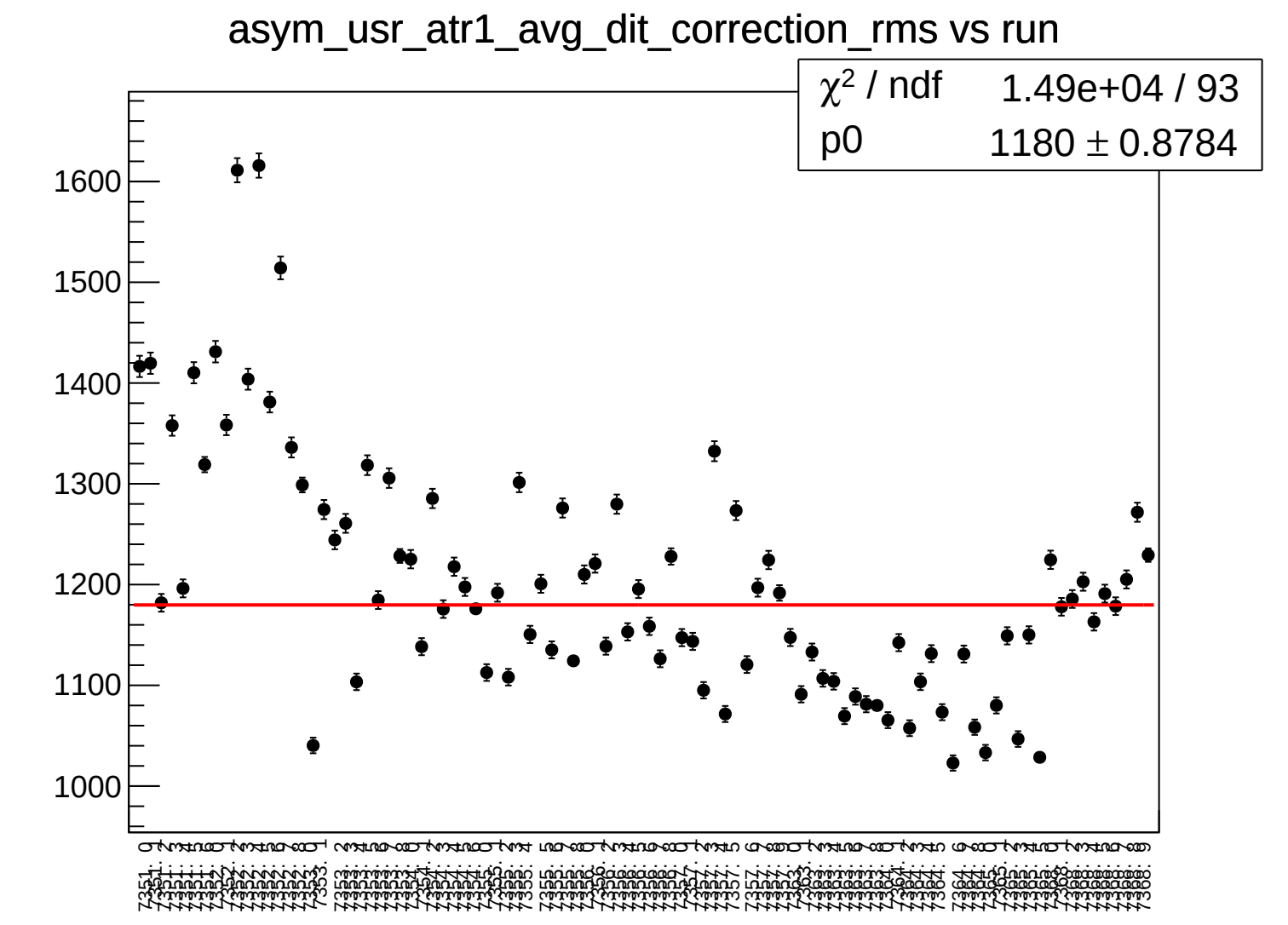

dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 102.2 / 93
p0 −44.25 ± 1702
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 246.7
Std Dev 0
2
1
0
−1
−2

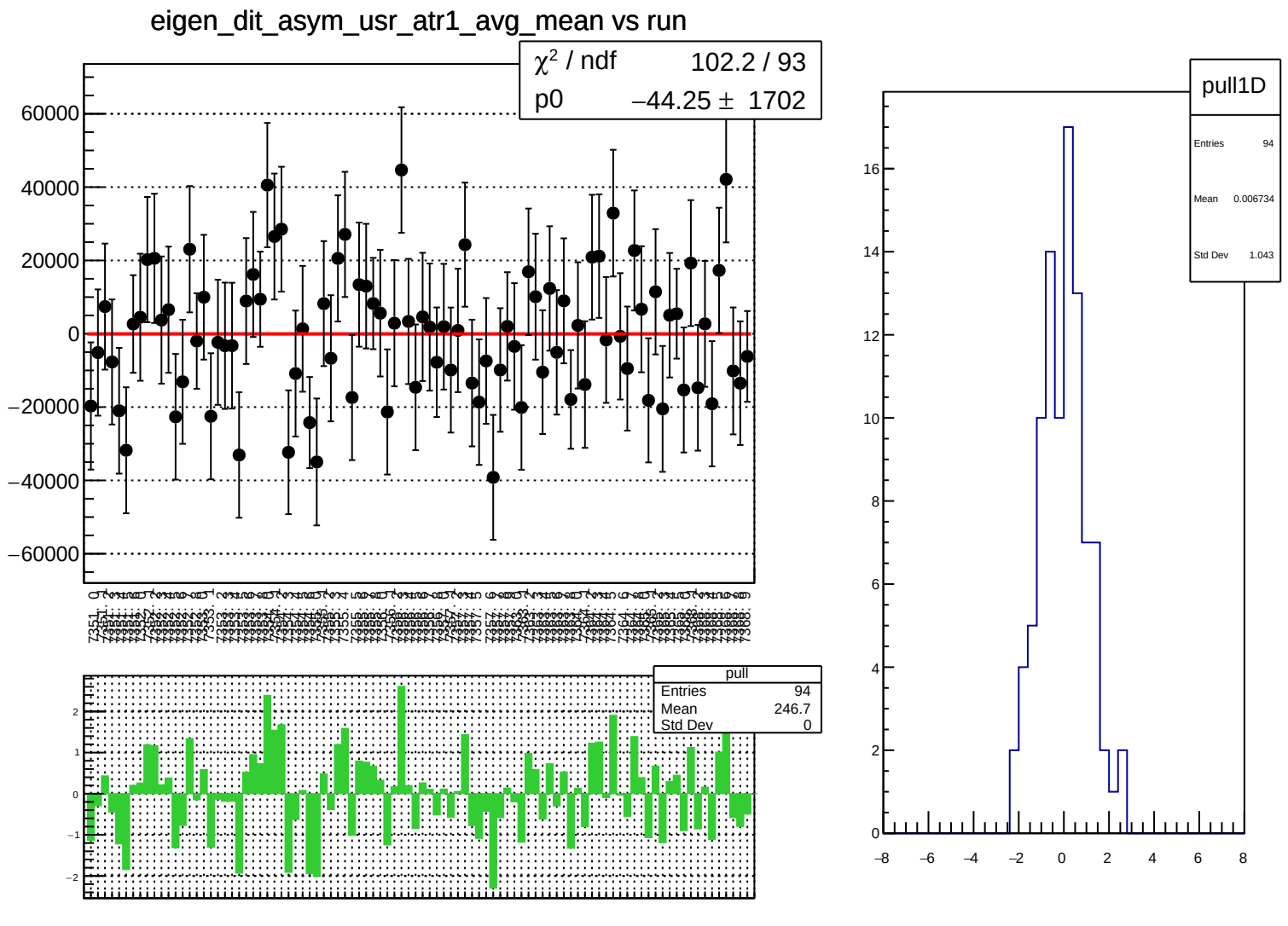

pull1D
Entries 94
Mean 0.006734
Std Dev 1.043
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

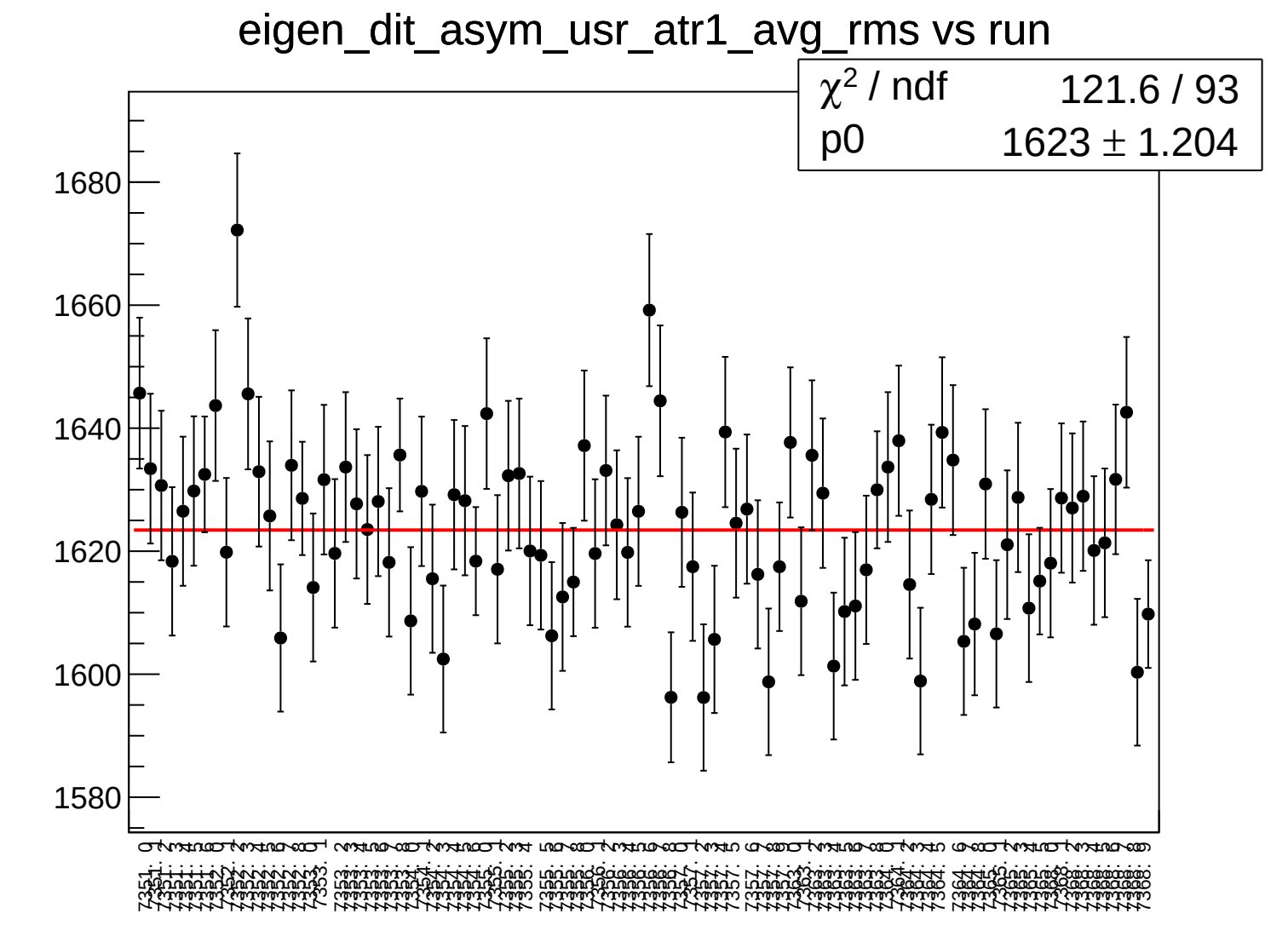

dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 121.6 / 93
p0 1623 ± 1.204
1680
1660
1640
1620
1600
1580

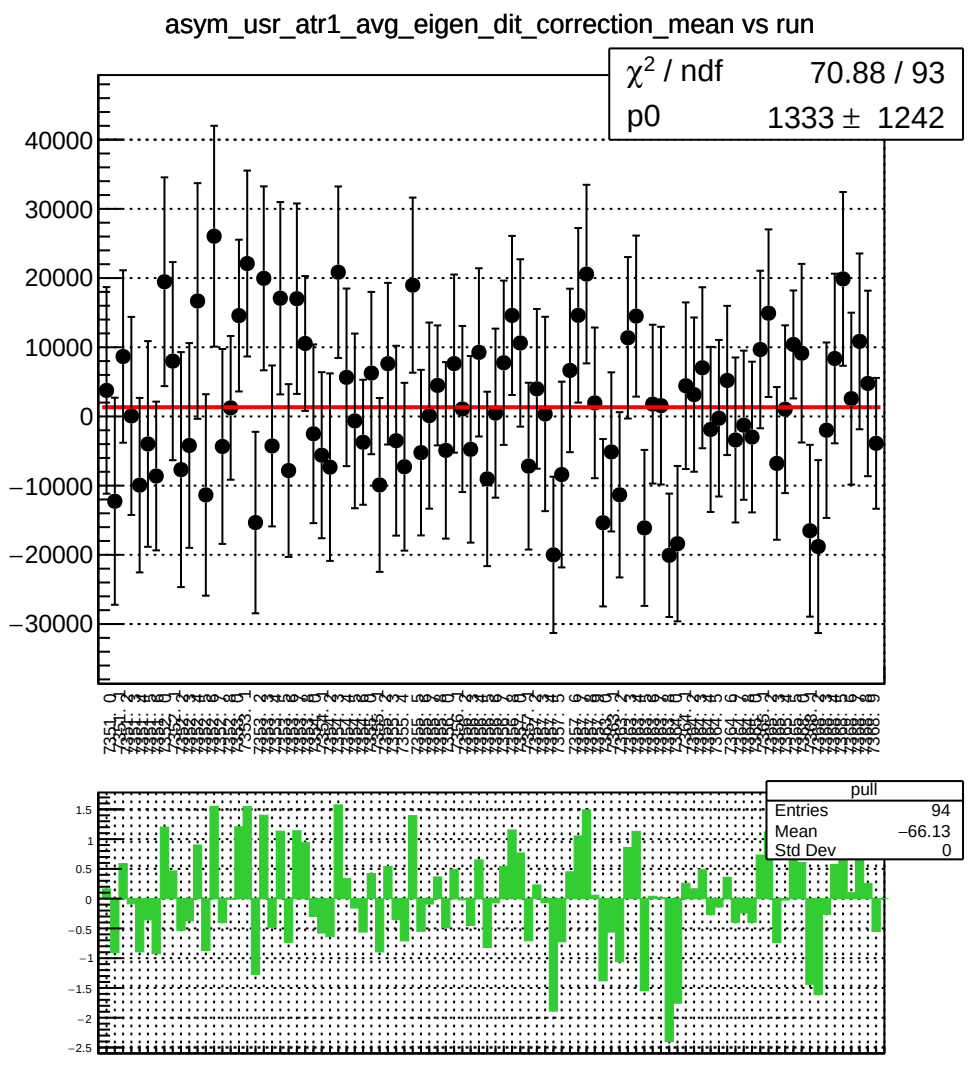

asym_usr_atr1_avg_dit_correction_mean vs run
χ² / ndf 70.88 / 93
p0 1333 ± 1242
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −66.13
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

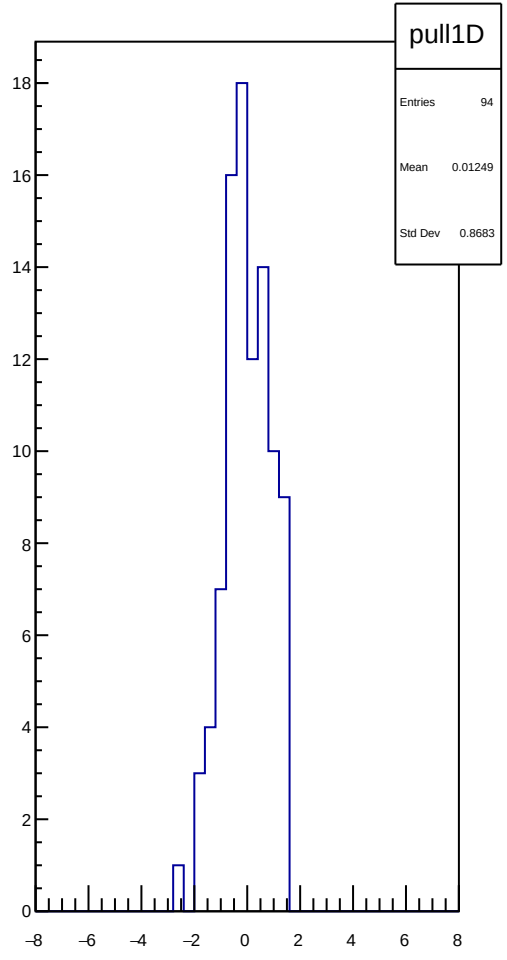

pull1D
Entries 94
Mean 0.01249
Std Dev 0.8683
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

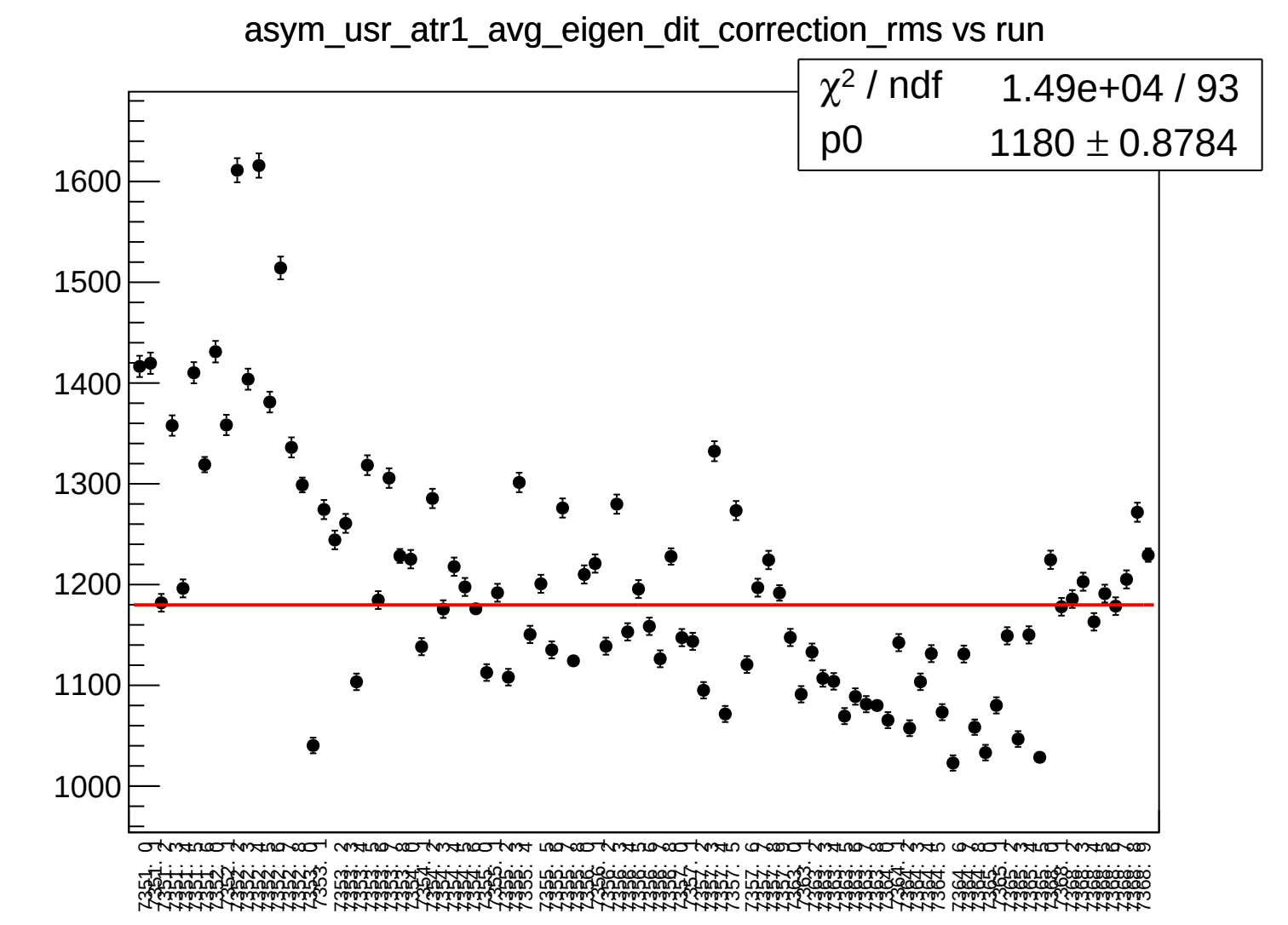

asym_usr_atr1_avg_dit_correction_rms vs run
χ² / ndf 1.49e+04 / 93
p0 1180 ± 0.8784
1600
1500
1400
1300
1200
1100
1000

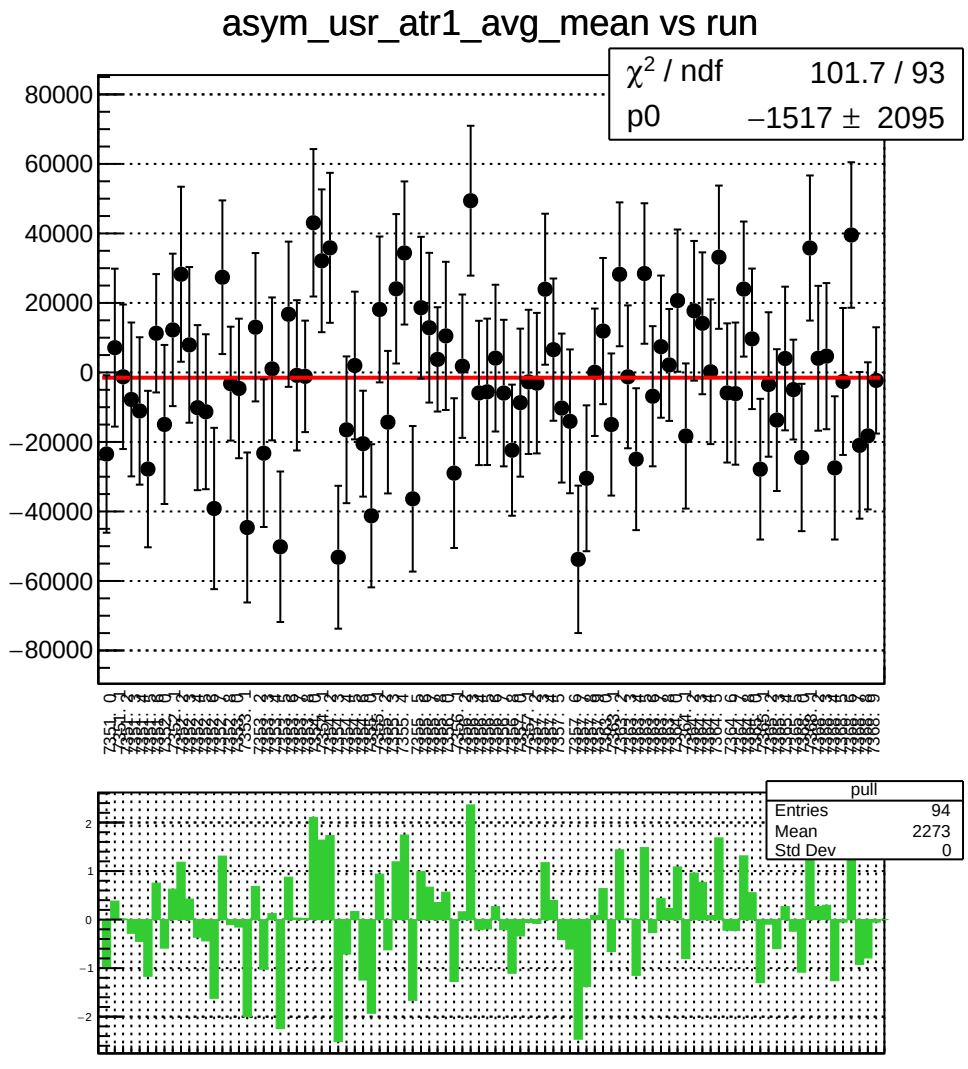

eigen_dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 102.2 / 93
p0 −44.25 ± 1702
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 246.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.006734
Std Dev 1.043
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

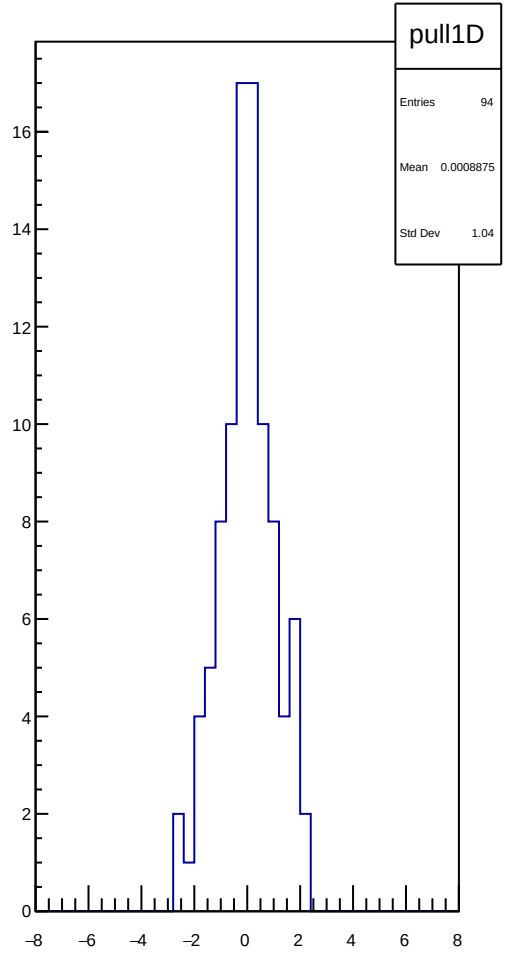

eigen_dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 121.6 / 93
p0 1623 ± 1.204
1680
1660
1640
1620
1600
1580

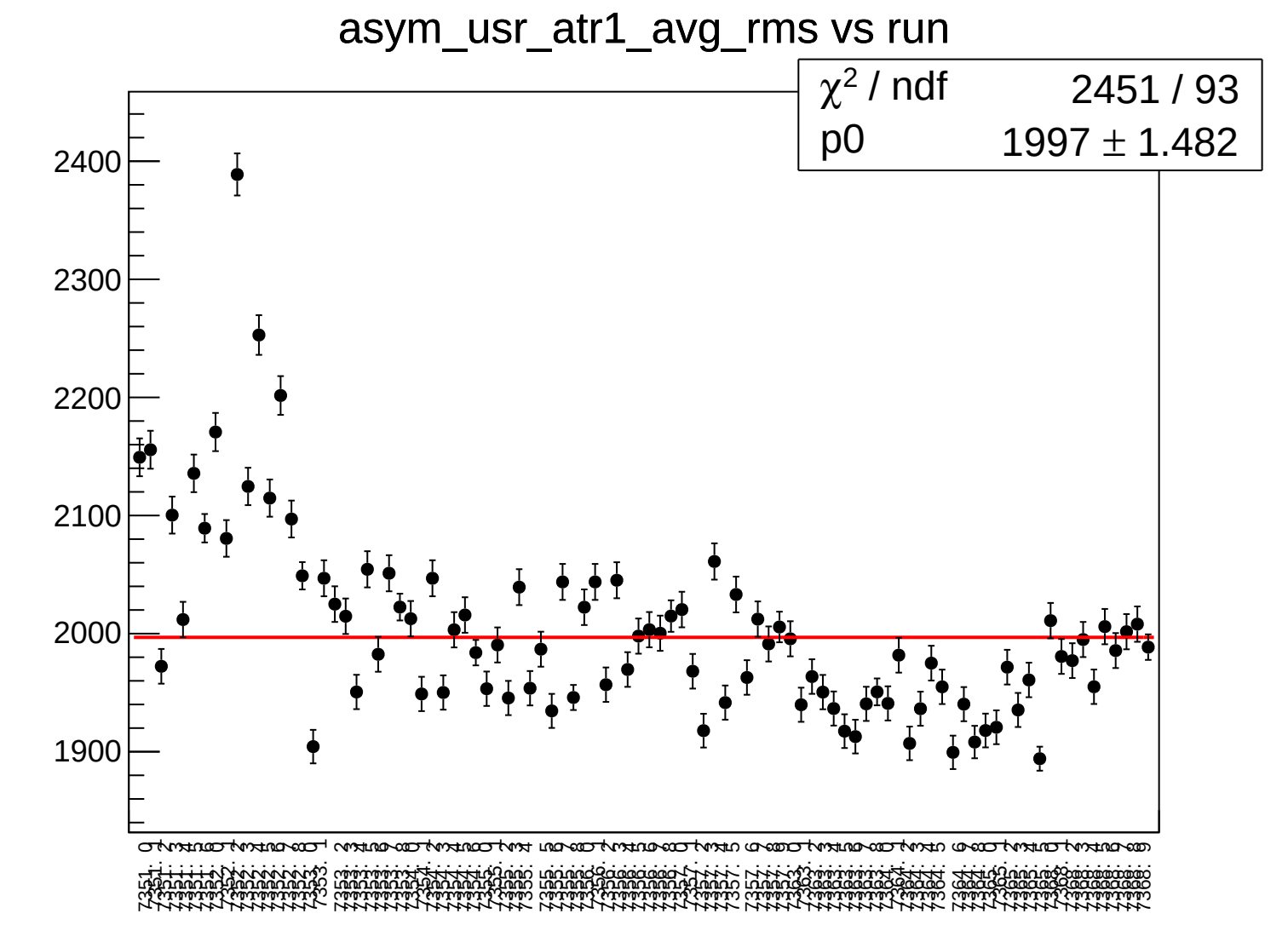

asym_usr_atr1_avg_eigen_dit_correction_mean vs run
χ² / ndf 70.88 / 93
p0 1333 ± 1242
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −66.13
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

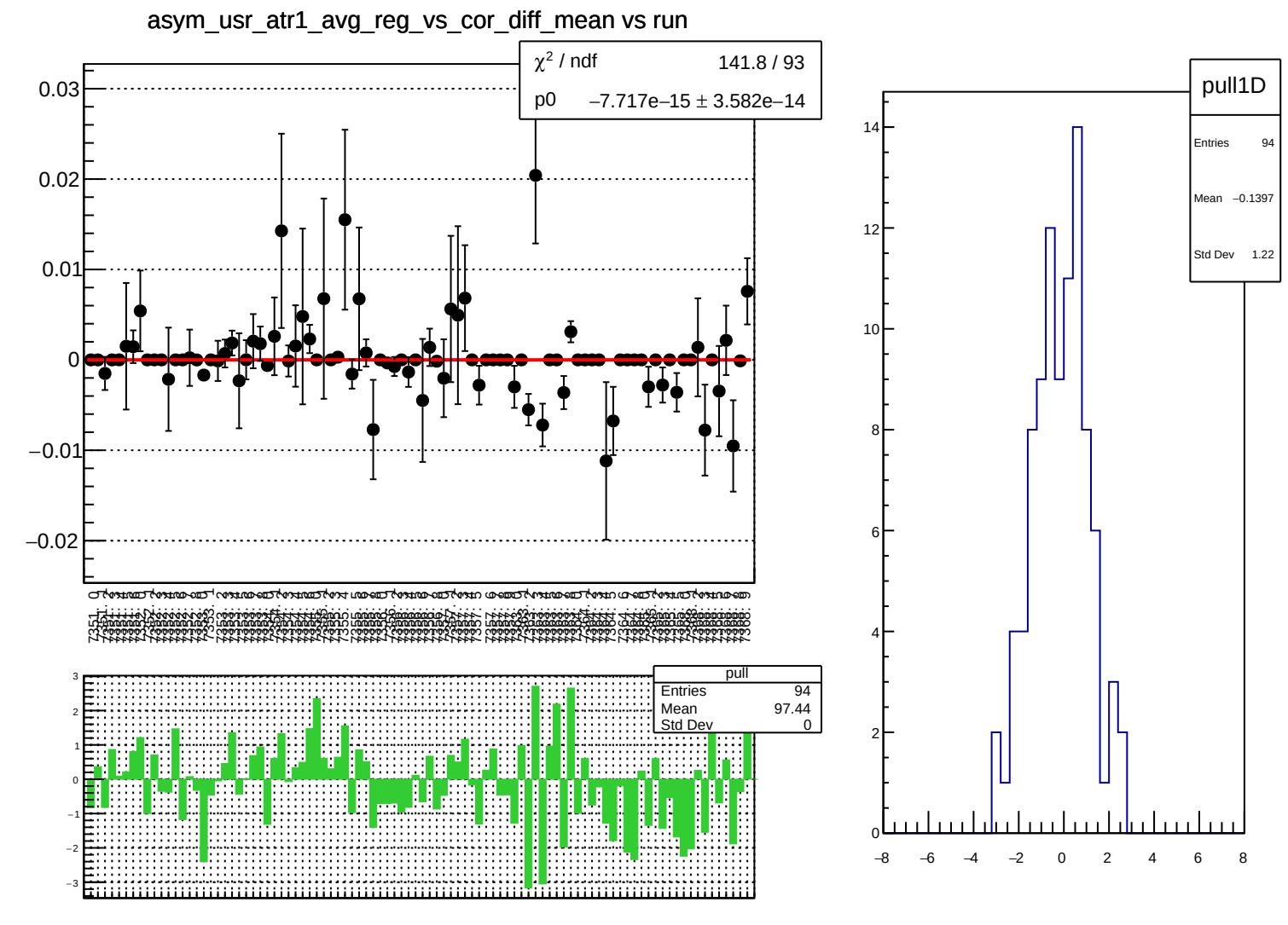

pull1D
Entries 94
Mean 0.01249
Std Dev 0.8683
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

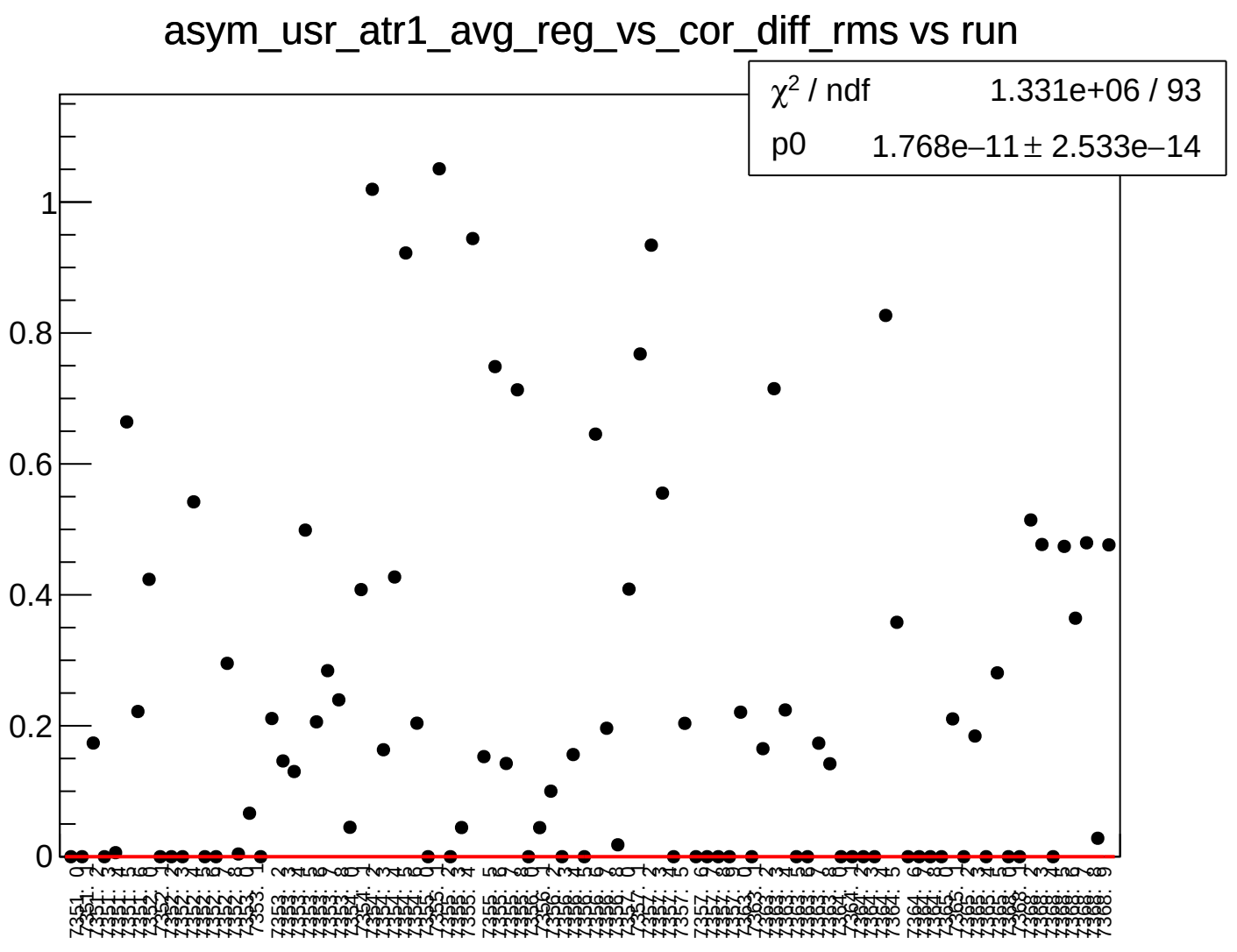

asym_usr_atr1_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.49e+04 / 93
p0 1180 ± 0.8784
1600
1500
1400
1300
1200
1100
1000

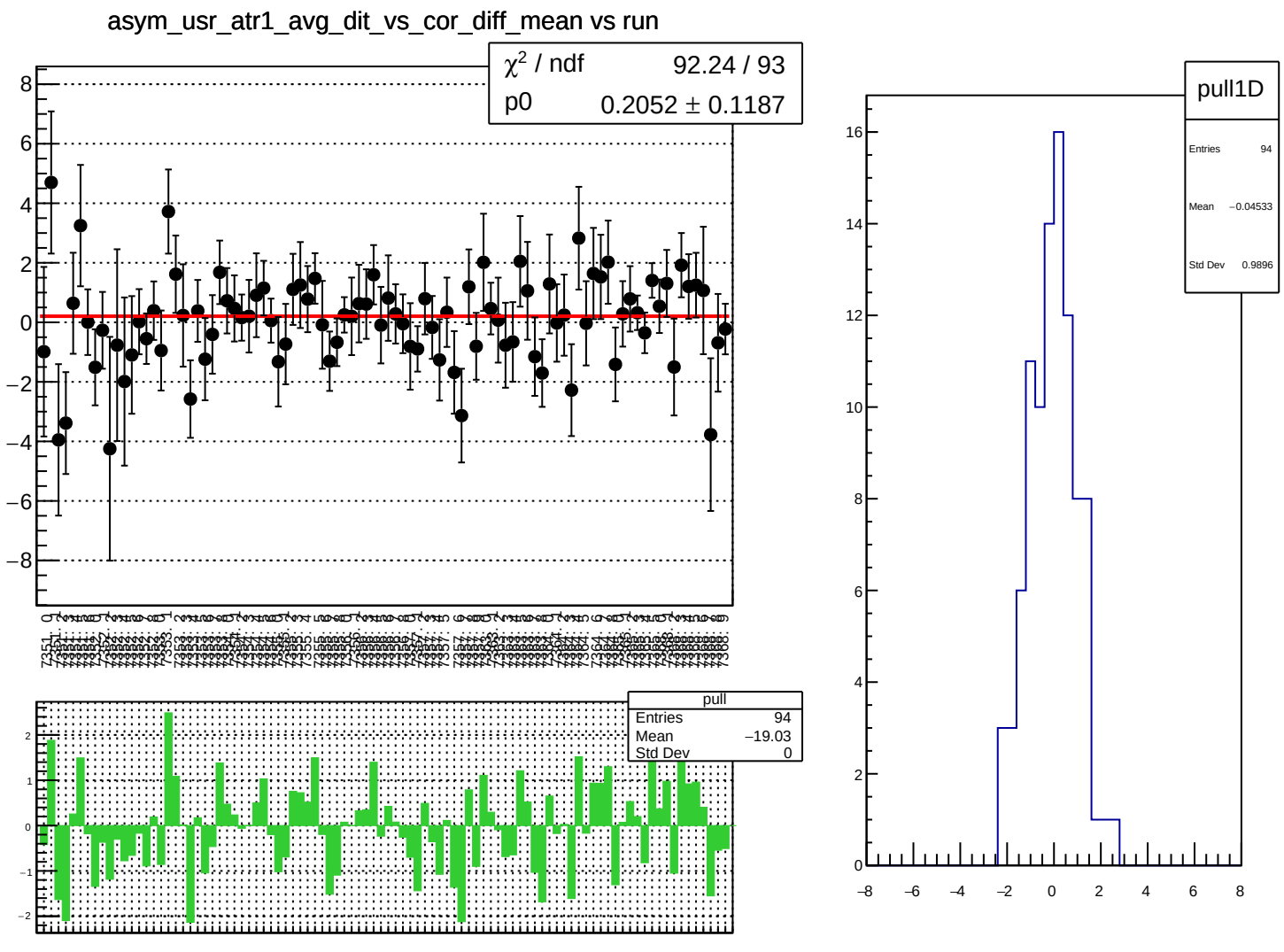

asym_usr_atr1_avg_mean vs run
χ² / ndf 101.7 / 93
p0 −1517 ± 2095
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean 2273
Std Dev 0
2
1
0
−1
−2

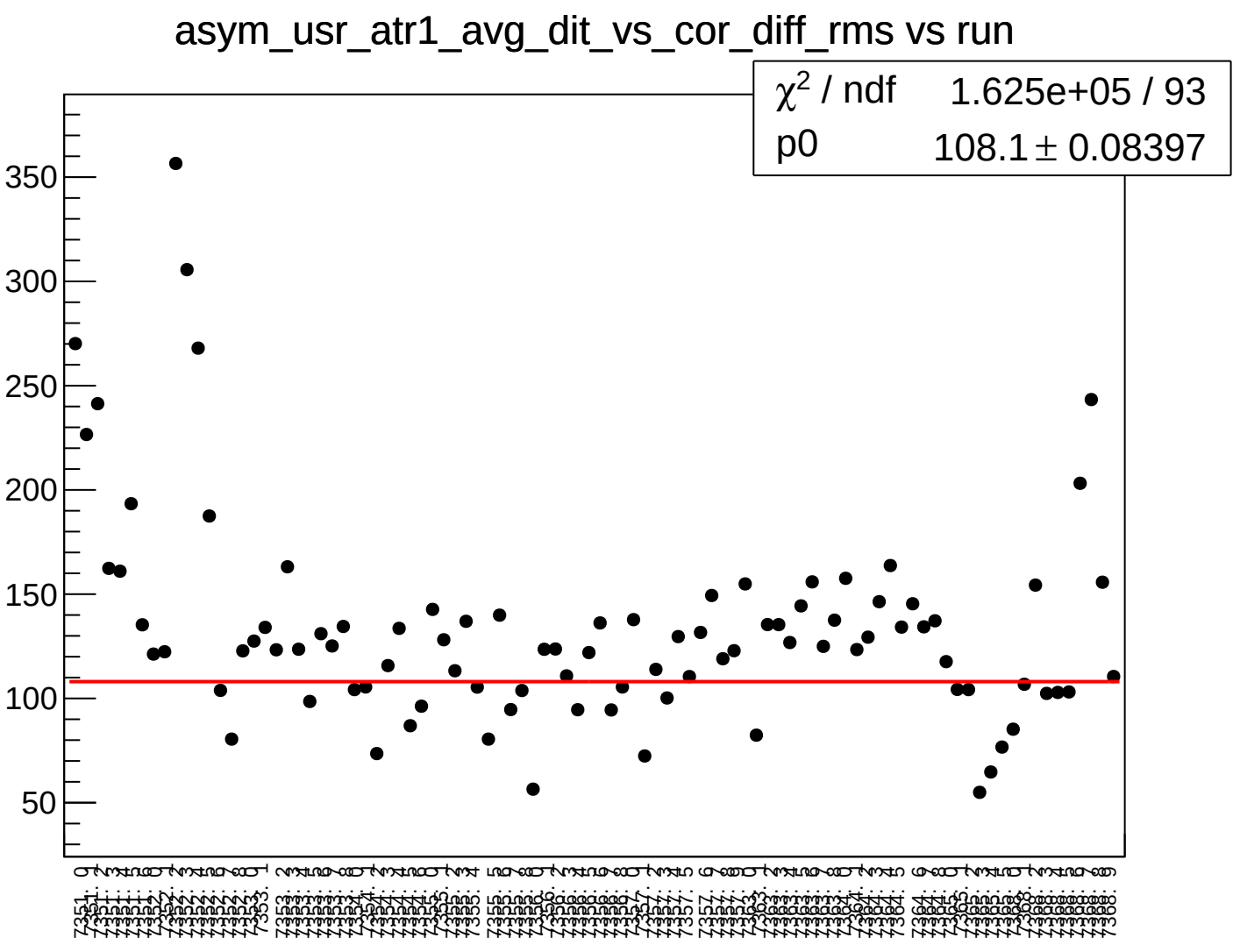

pull1D
Entries 94
Mean 0.0008875
Std Dev 1.04
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

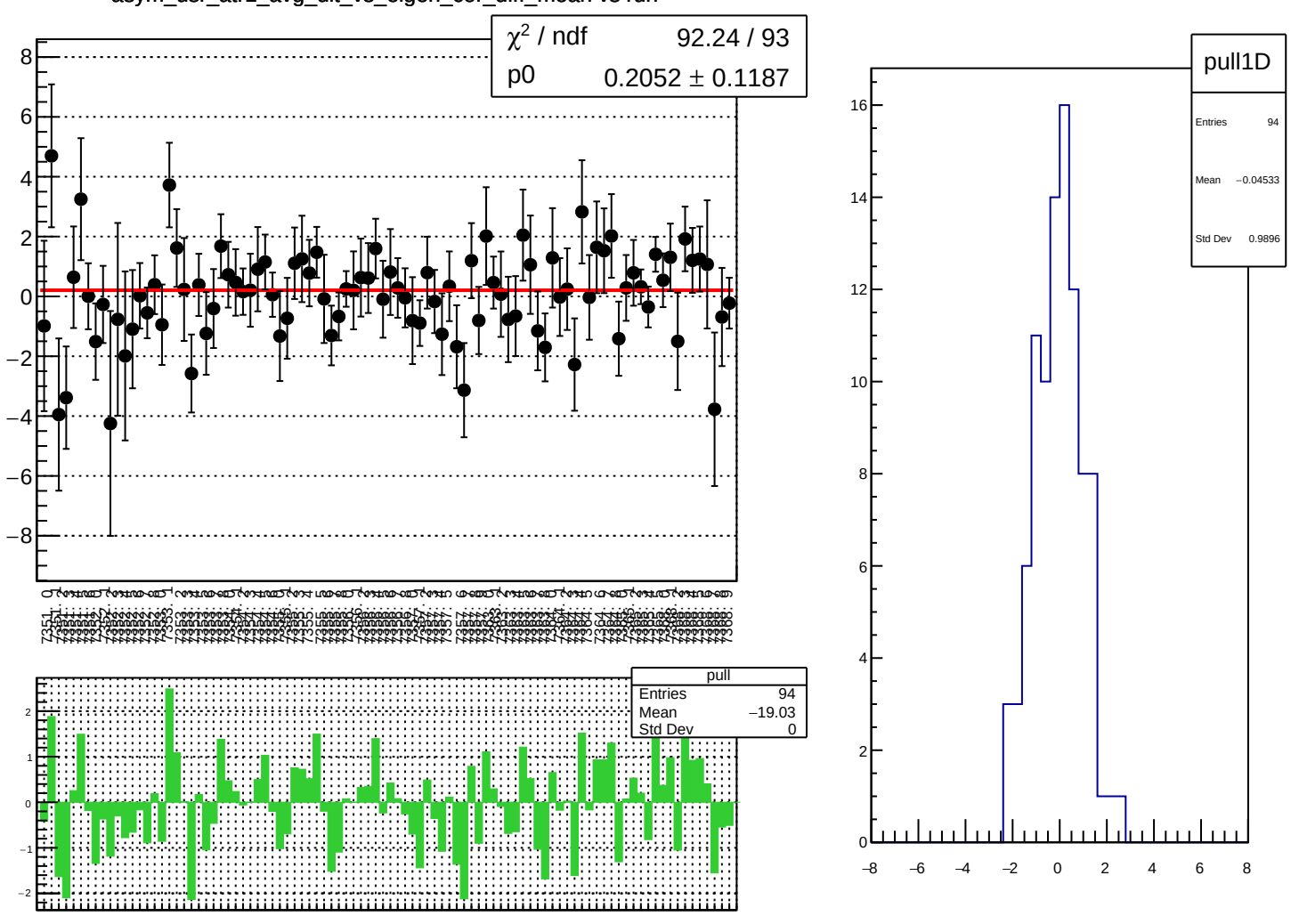

asym_usr_atr1_avg_rms vs run
χ² / ndf 2451 / 93
p0 1997 ± 1.482
2400
2300
2200
2100
2000
1900

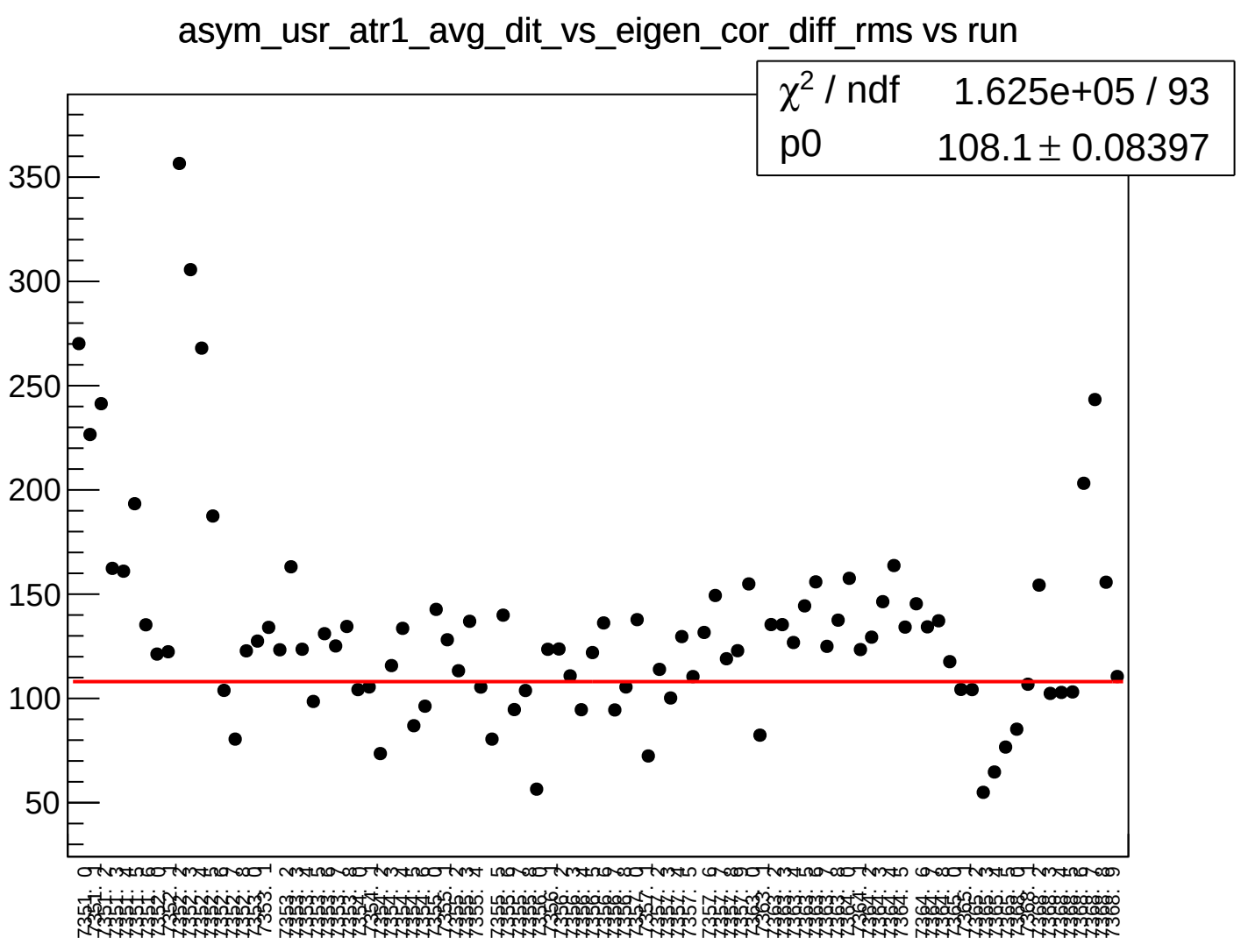

asym_usr_atr1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 141.8 / 93
p0 −7.717e−15 ± 3.582e−14
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 94
Mean 97.44
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.1397
Std Dev 1.22
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

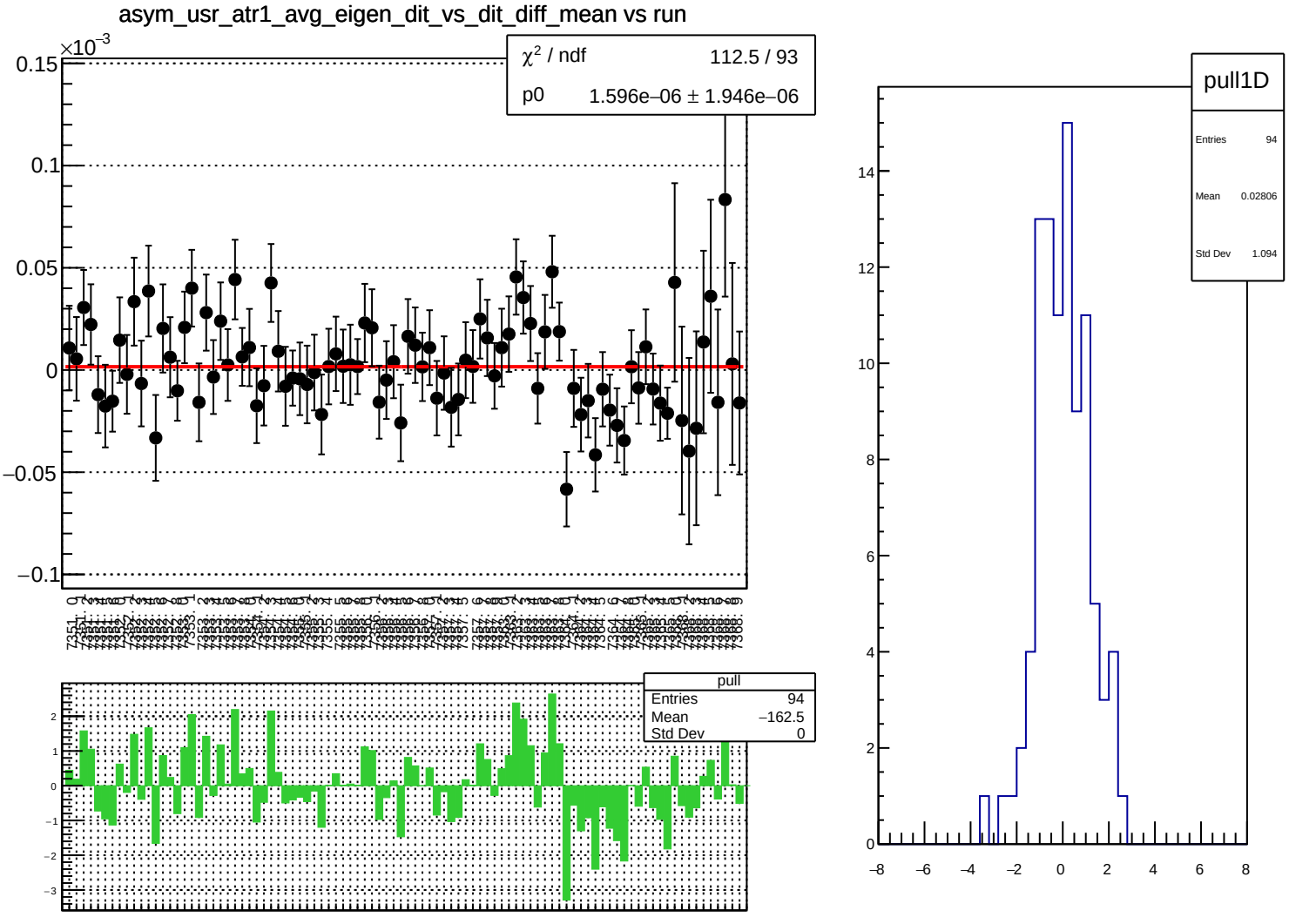

asym_usr_atr1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.331e+06 / 93
p0 1.768e−11 ± 2.533e−14
1
0.8
0.6
0.4
0.2
0

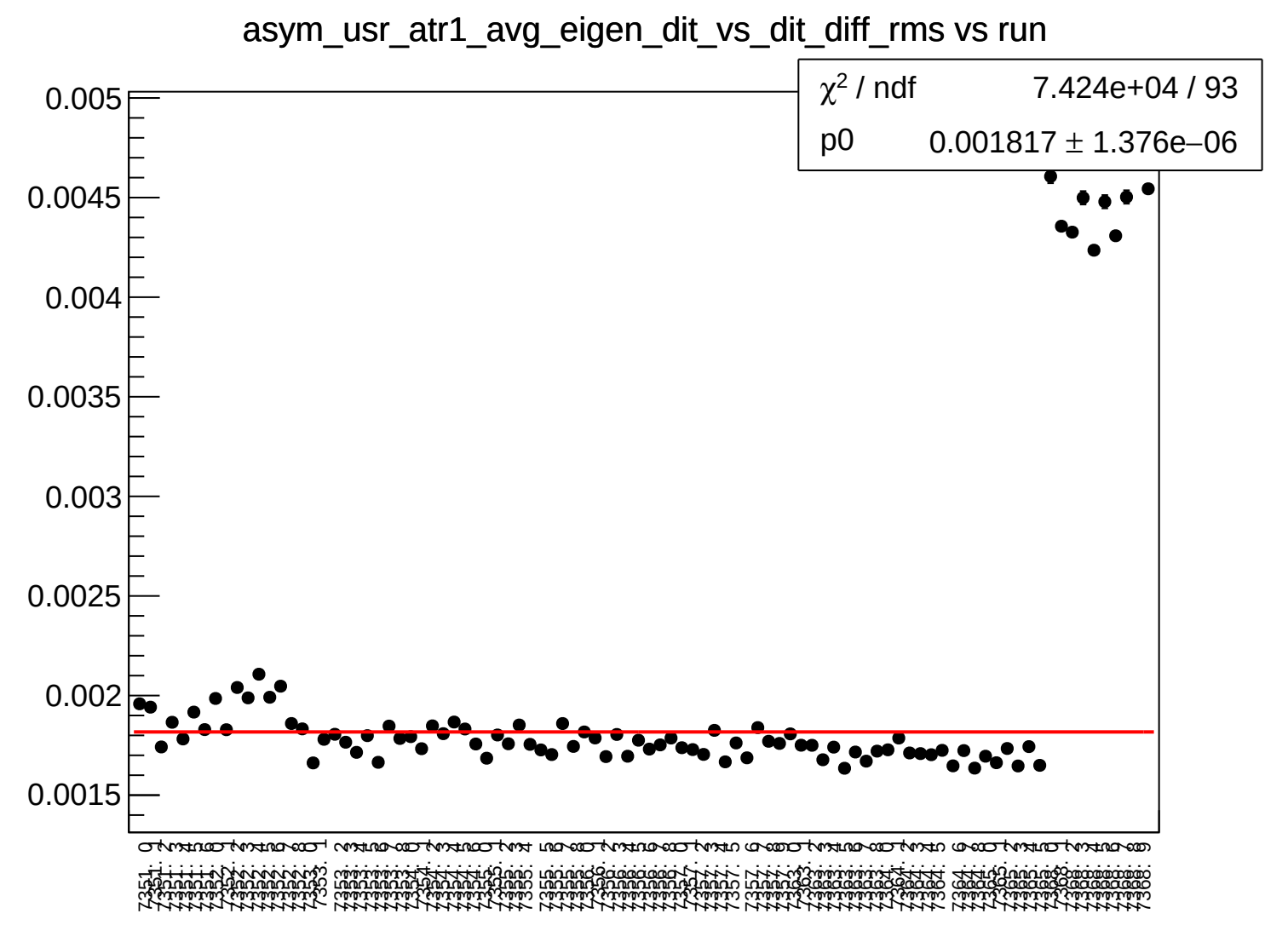

asym_usr_atr1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 92.24 / 93
p0 0.2052 ± 0.1187
pull
Entries 94
Mean −19.03
Std Dev 0
pull1D
Entries 94
Mean −0.04533
Std Dev 0.9896

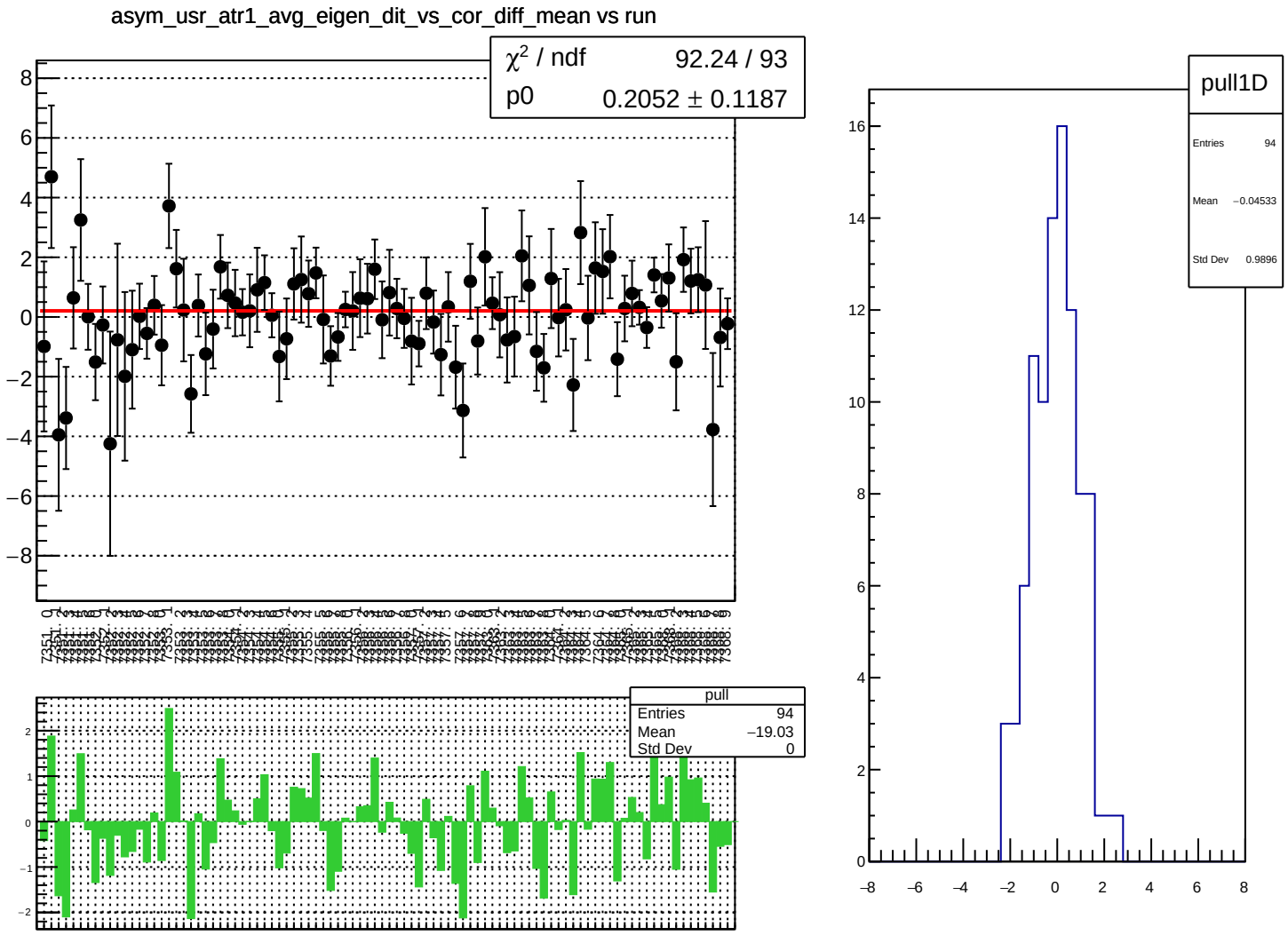

asym_usr_atr1_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.625e+05 / 93
p0 108.1 ± 0.08397
350
300
250
200
150
100
50

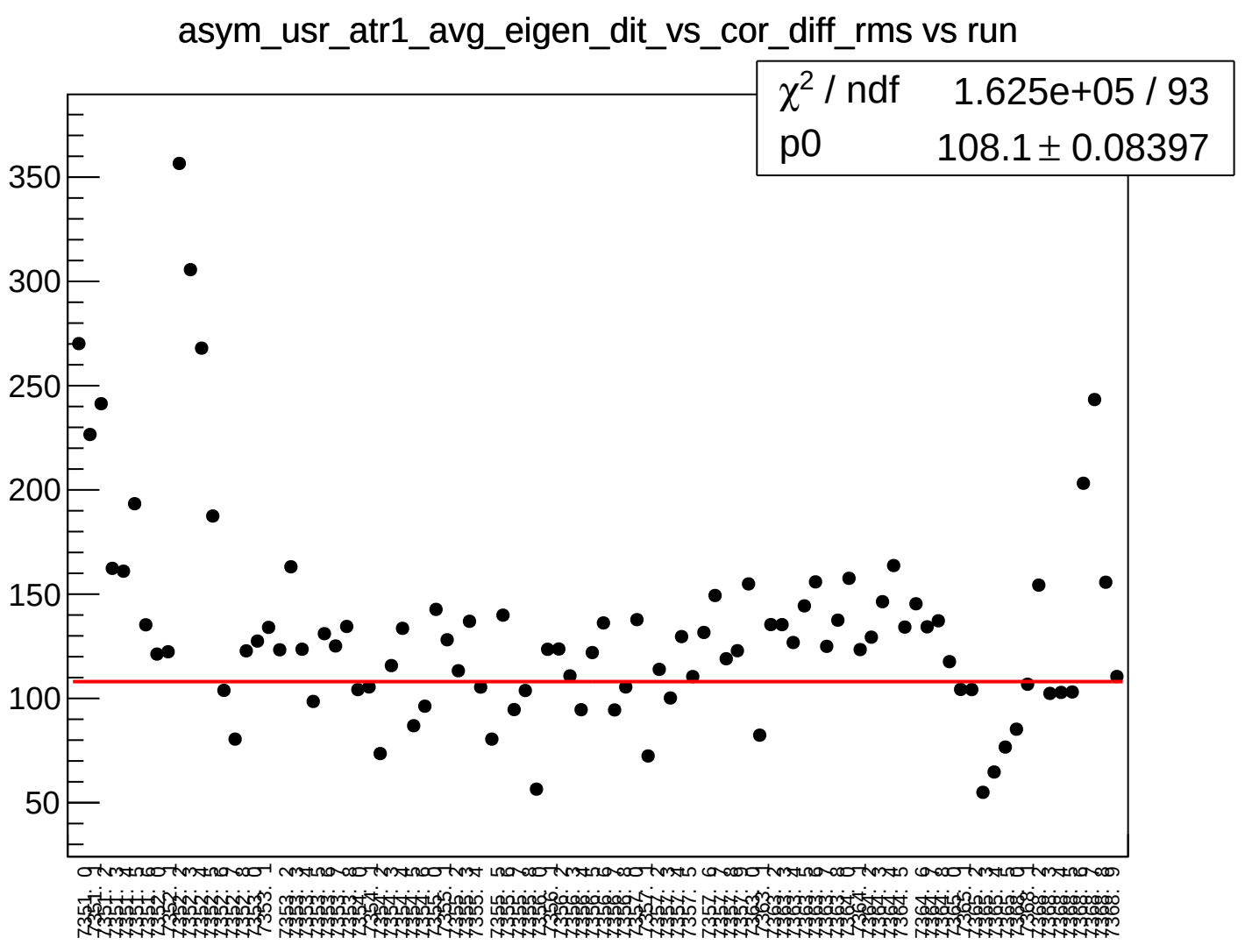

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.24 / 93
p0 0.2052 ± 0.1187
pull
Entries 94
Mean −19.03
Std Dev 0
pull1D
Entries 94
Mean −0.04533
Std Dev 0.9896

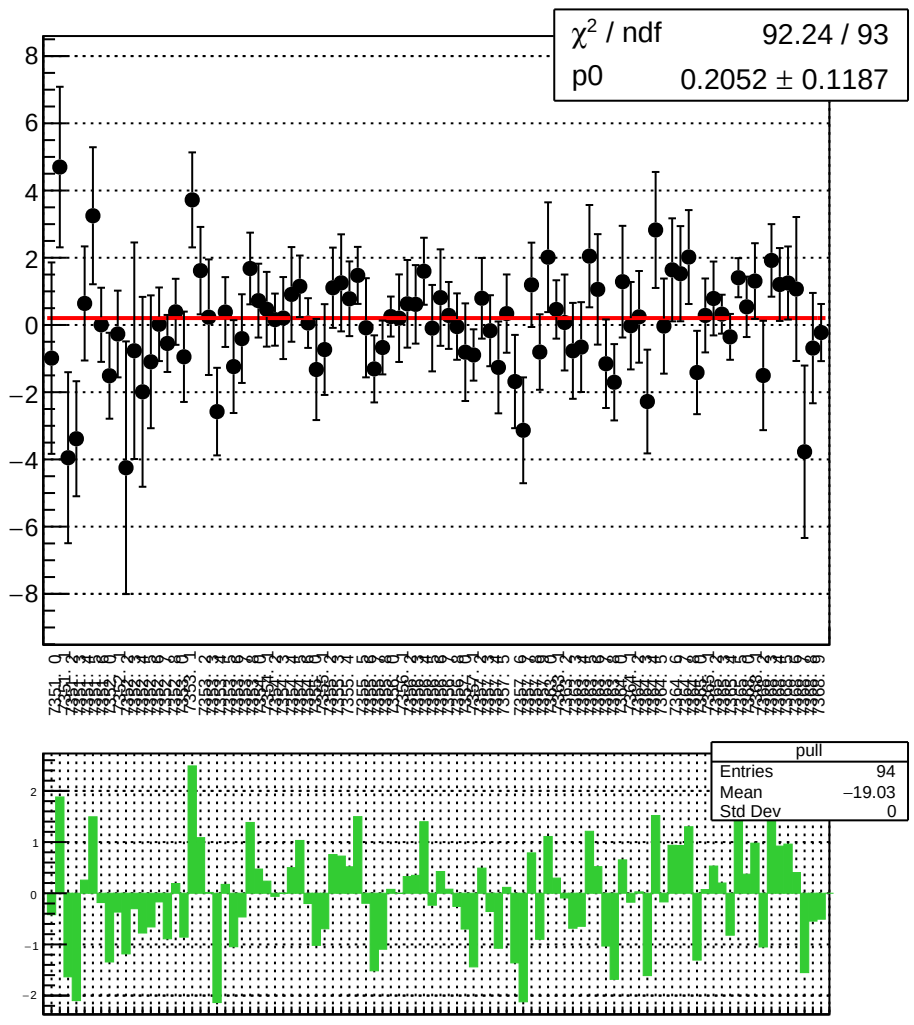

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.625e+05 / 93
p0 108.1 ± 0.08397
350
300
250
200
150
100
50

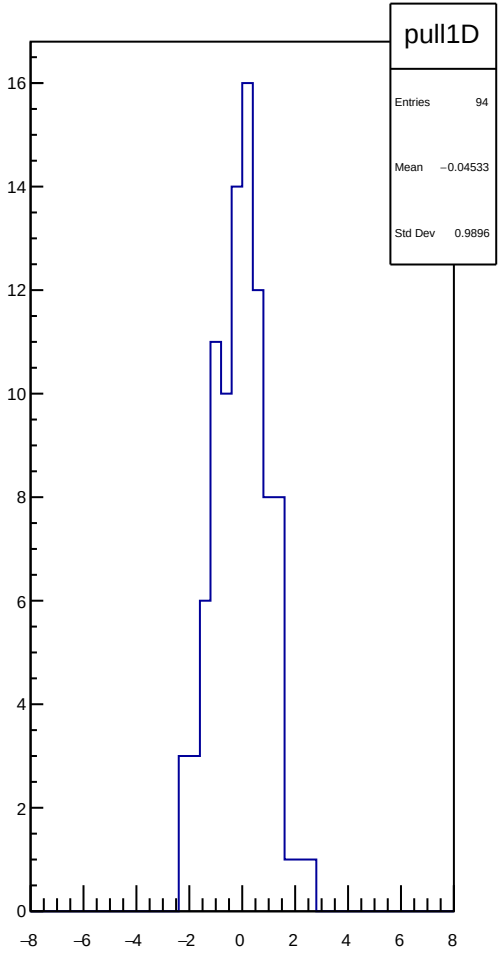

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 112.5 / 93
p0 1.596e−06 ± 1.946e−06
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 94
Mean −162.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.02806
Std Dev 1.094
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

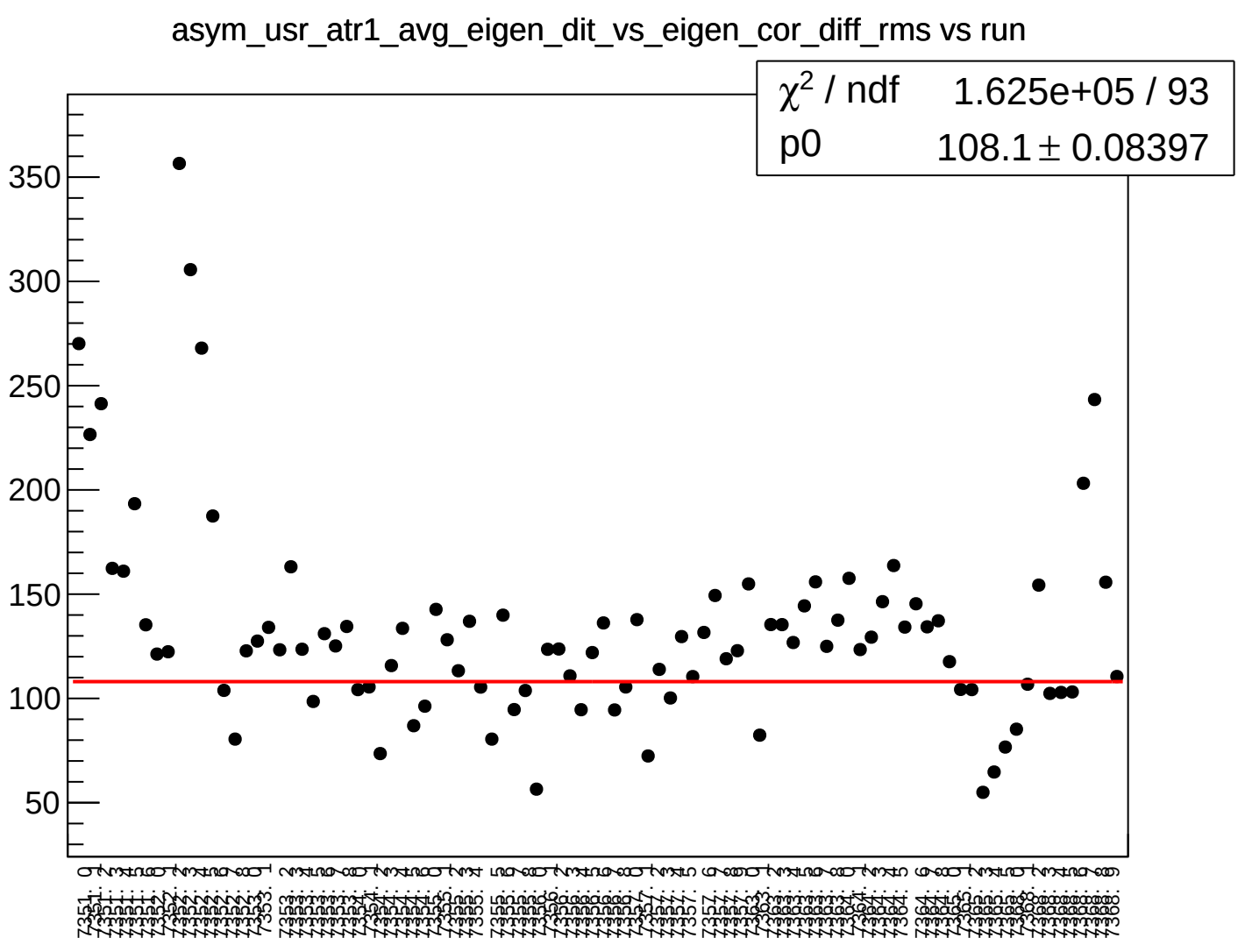

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.424e+04 / 93
p0 0.001817 ± 1.376e−06
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015

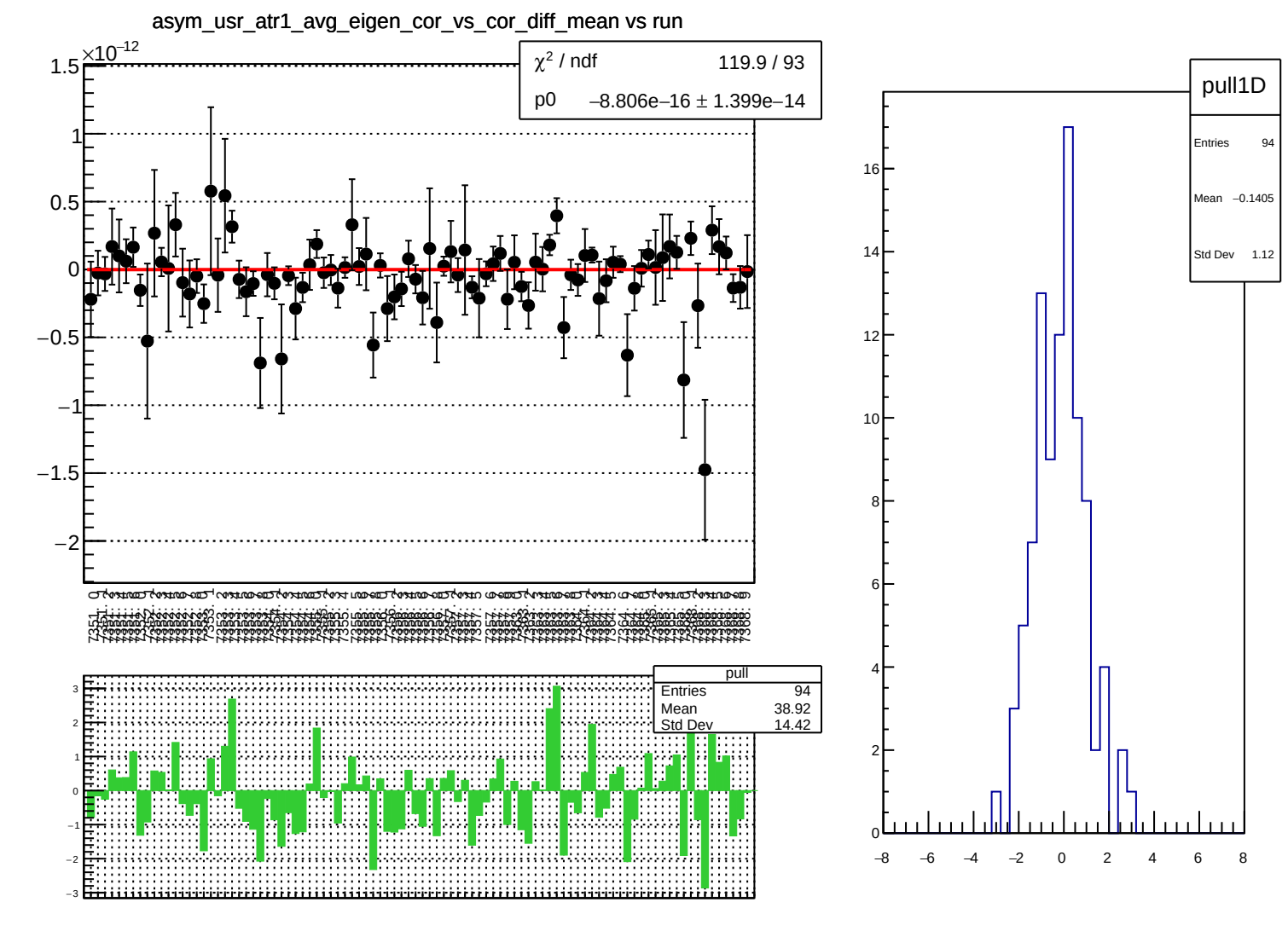

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.24 / 93
p0 0.2052 ± 0.1187
pull
Entries 94
Mean −19.03
Std Dev 0
pull1D
Entries 94
Mean −0.04533
Std Dev 0.9896

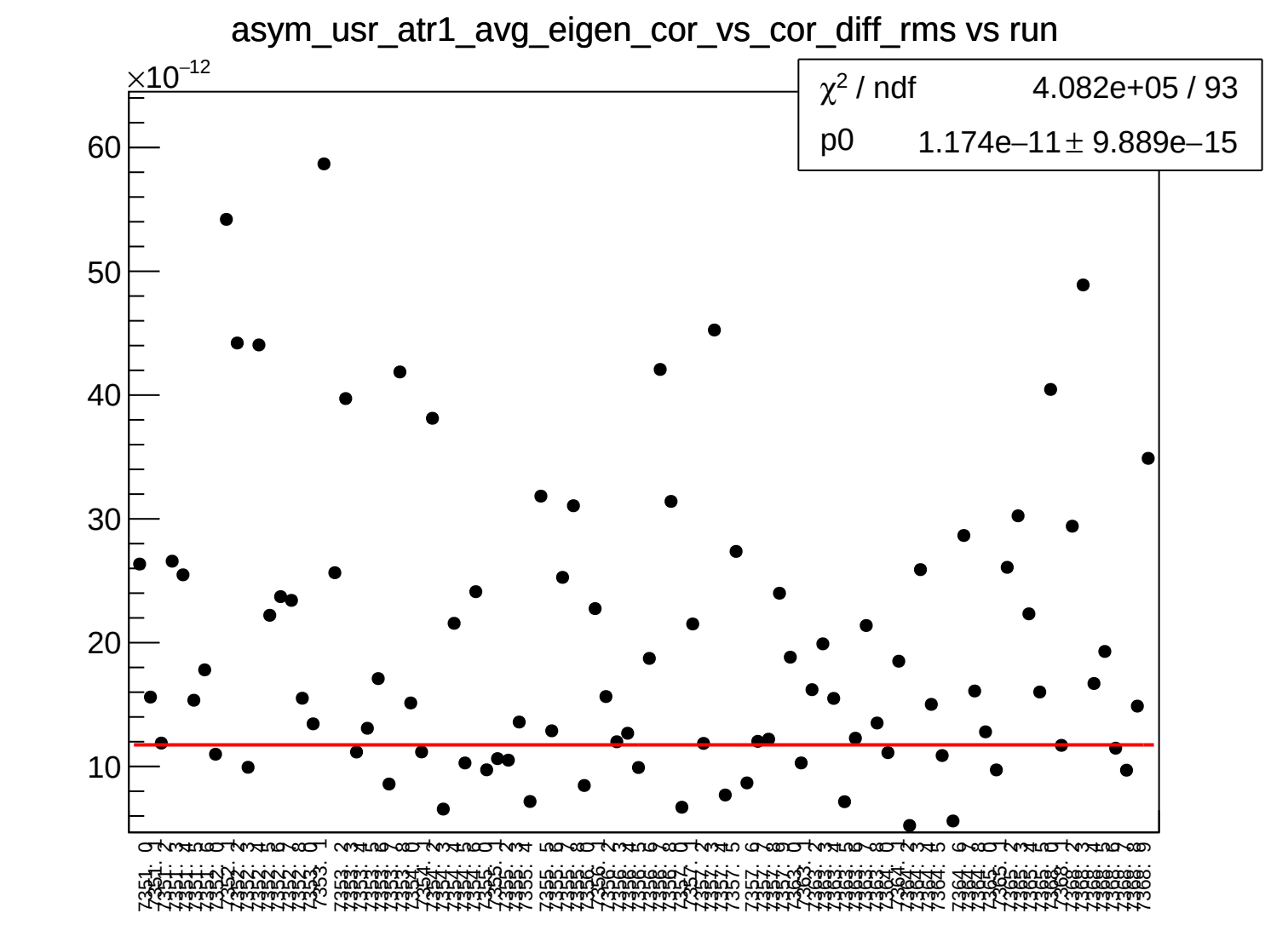

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.625e+05 / 93
p0 108.1 ± 0.08397
350
300
250
200
150
100
50

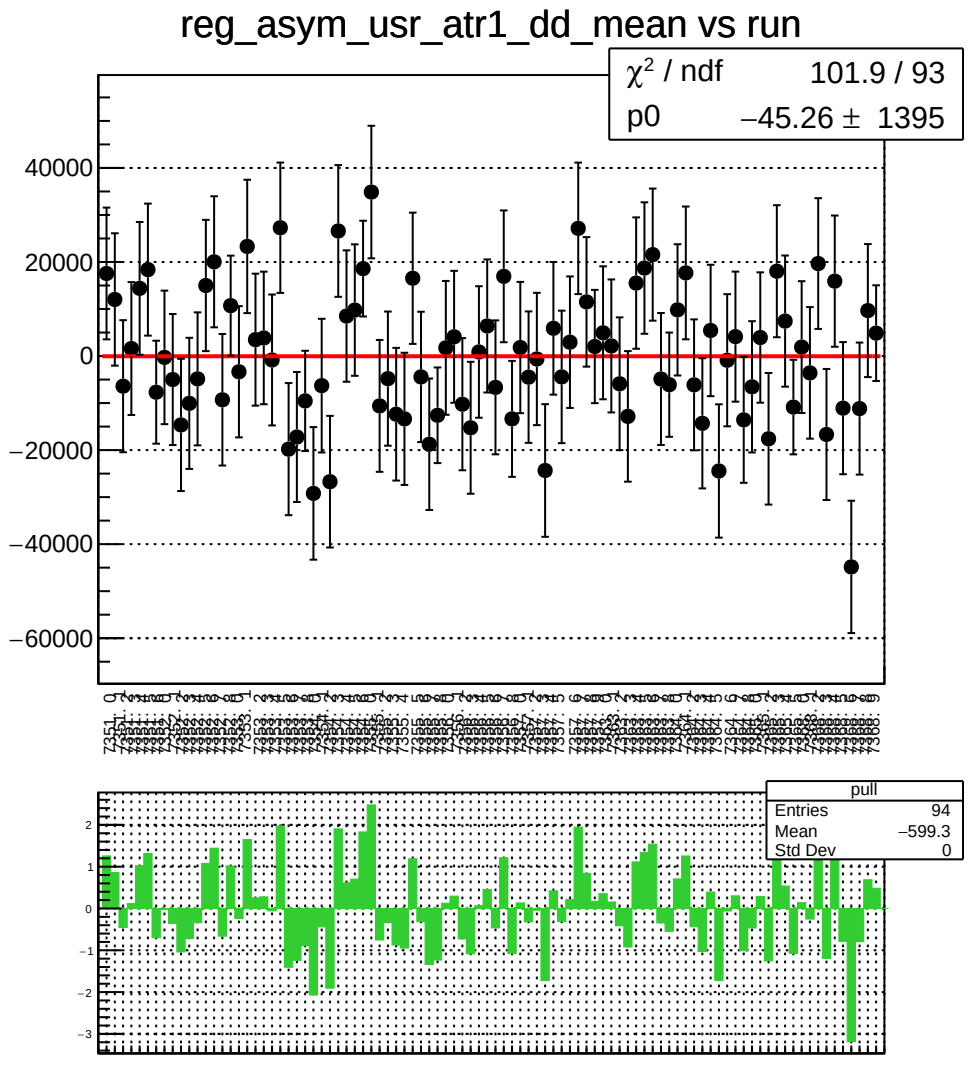

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.24 / 93
p0 0.2052 ± 0.1187
pull
Entries 94
Mean −19.03
Std Dev 0

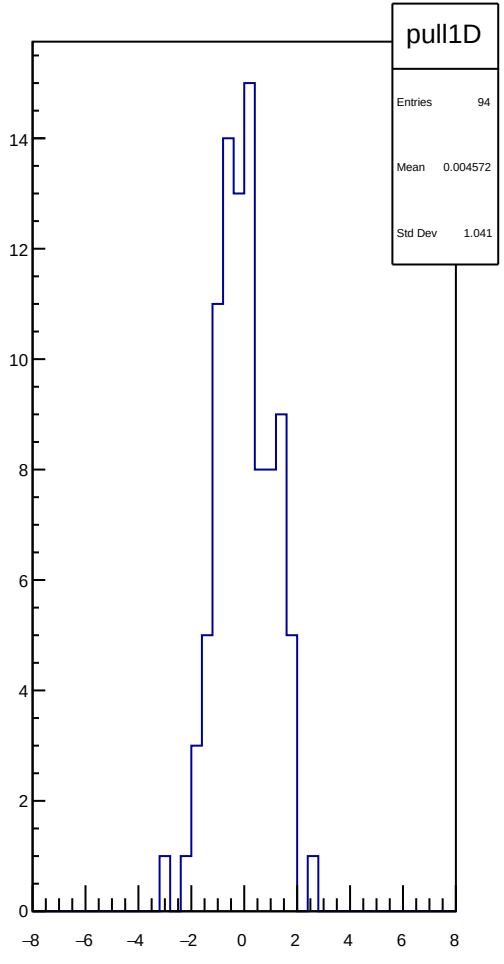

pull1D
Entries 94
Mean −0.04533
Std Dev 0.9896

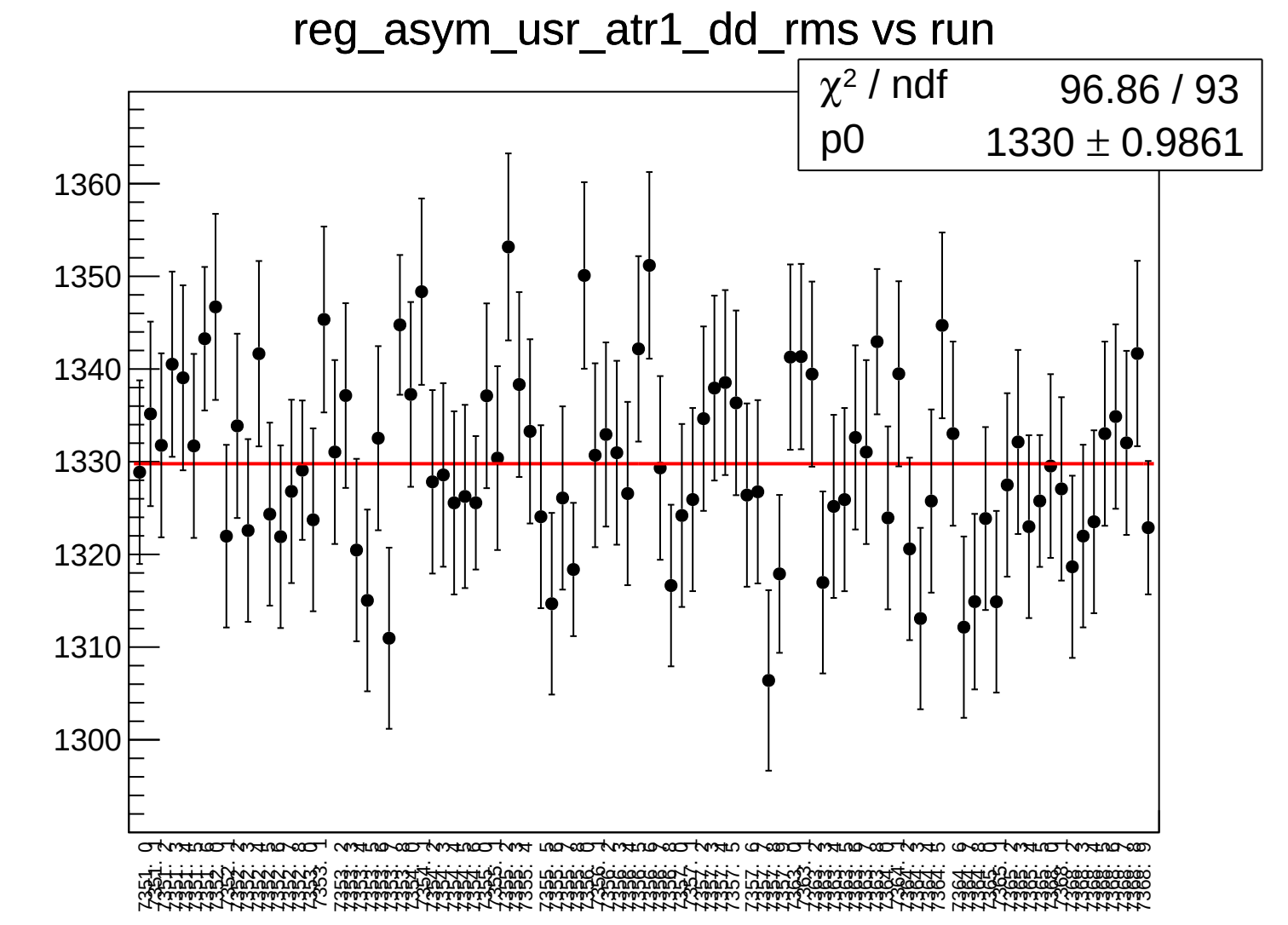

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.625e+05 / 93
p0 108.1 ± 0.08397
350
300
250
200
150
100
50

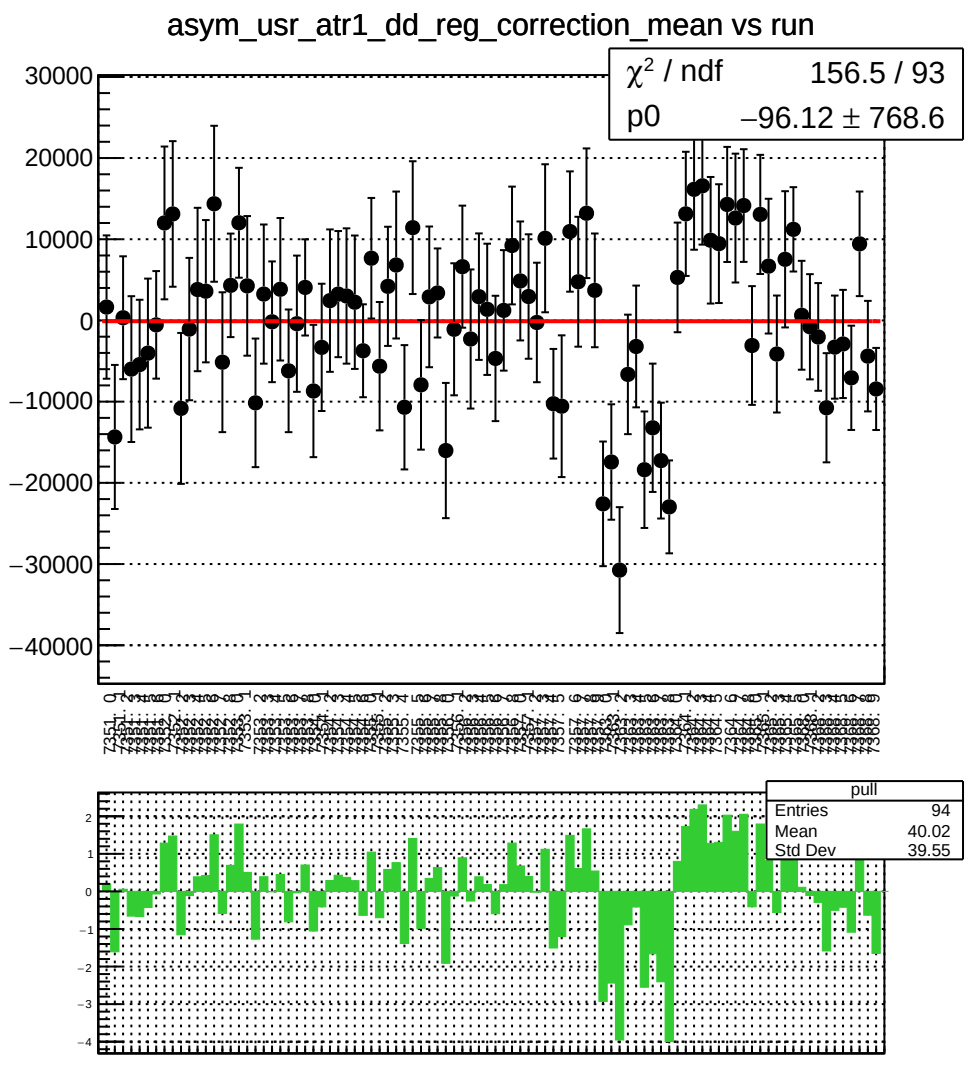

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 119.9 / 93
p0 −8.806e−16 ± 1.399e−14
pull
Entries 94
Mean 38.92
Std Dev 14.42
pull1D
Entries 94
Mean −0.1405
Std Dev 1.12

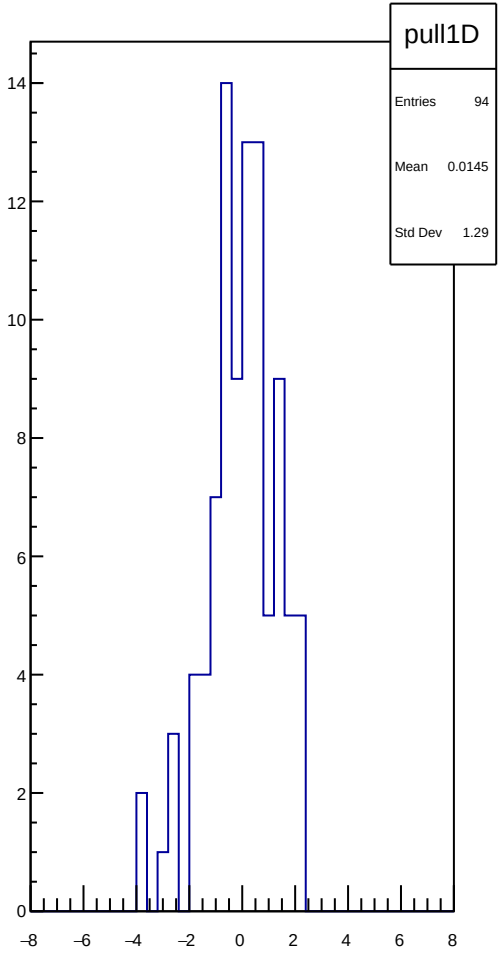

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.082e+05 / 93
p0 1.174e−11 ± 9.889e−15
60
50
40
30
20
10

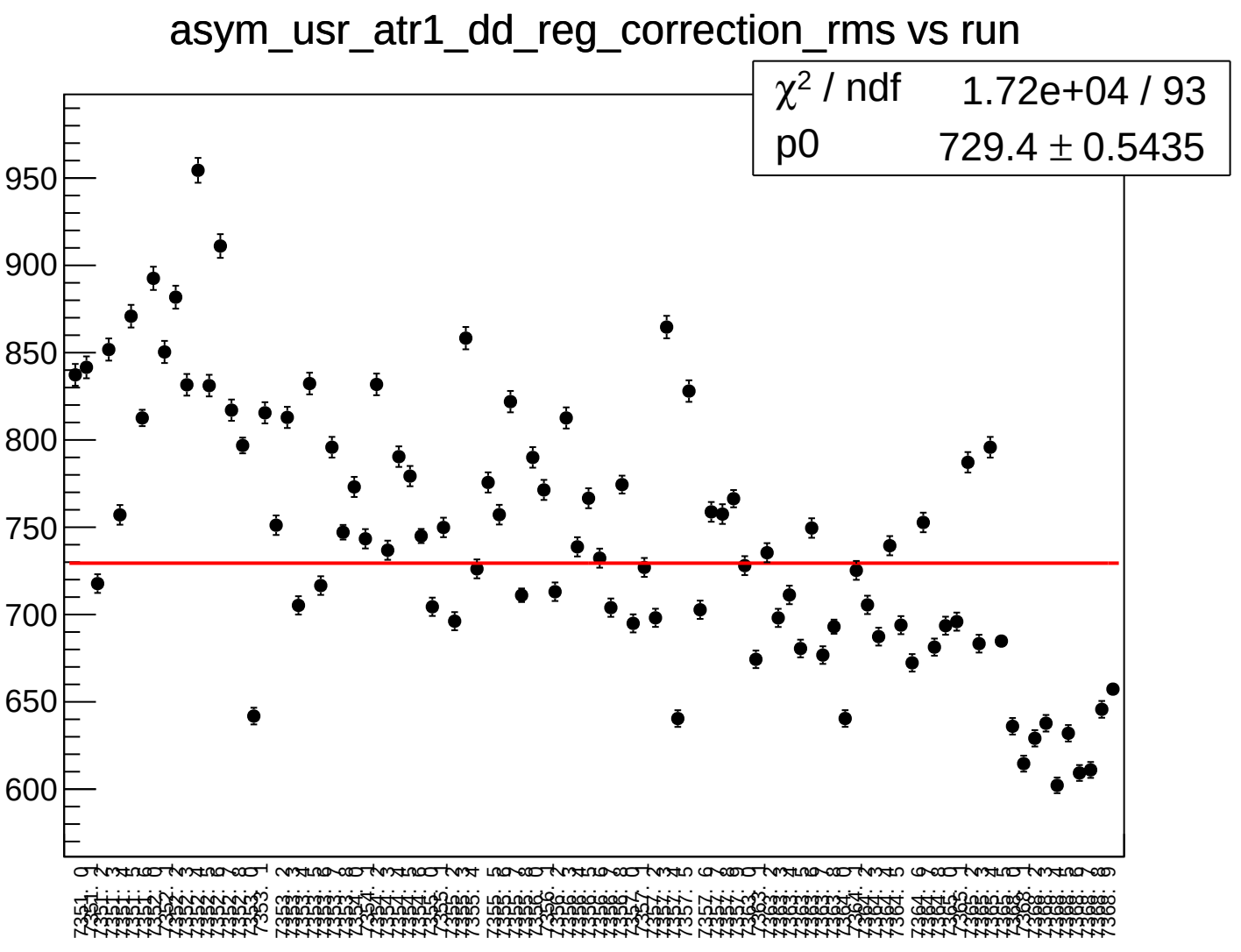

reg_asym_usr_atr1_dd_mean vs run
χ² / ndf 101.9 / 93
p0 −45.26 ± 1395
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −599.3
Std Dev 0
2
1
0
−1
−2
−3

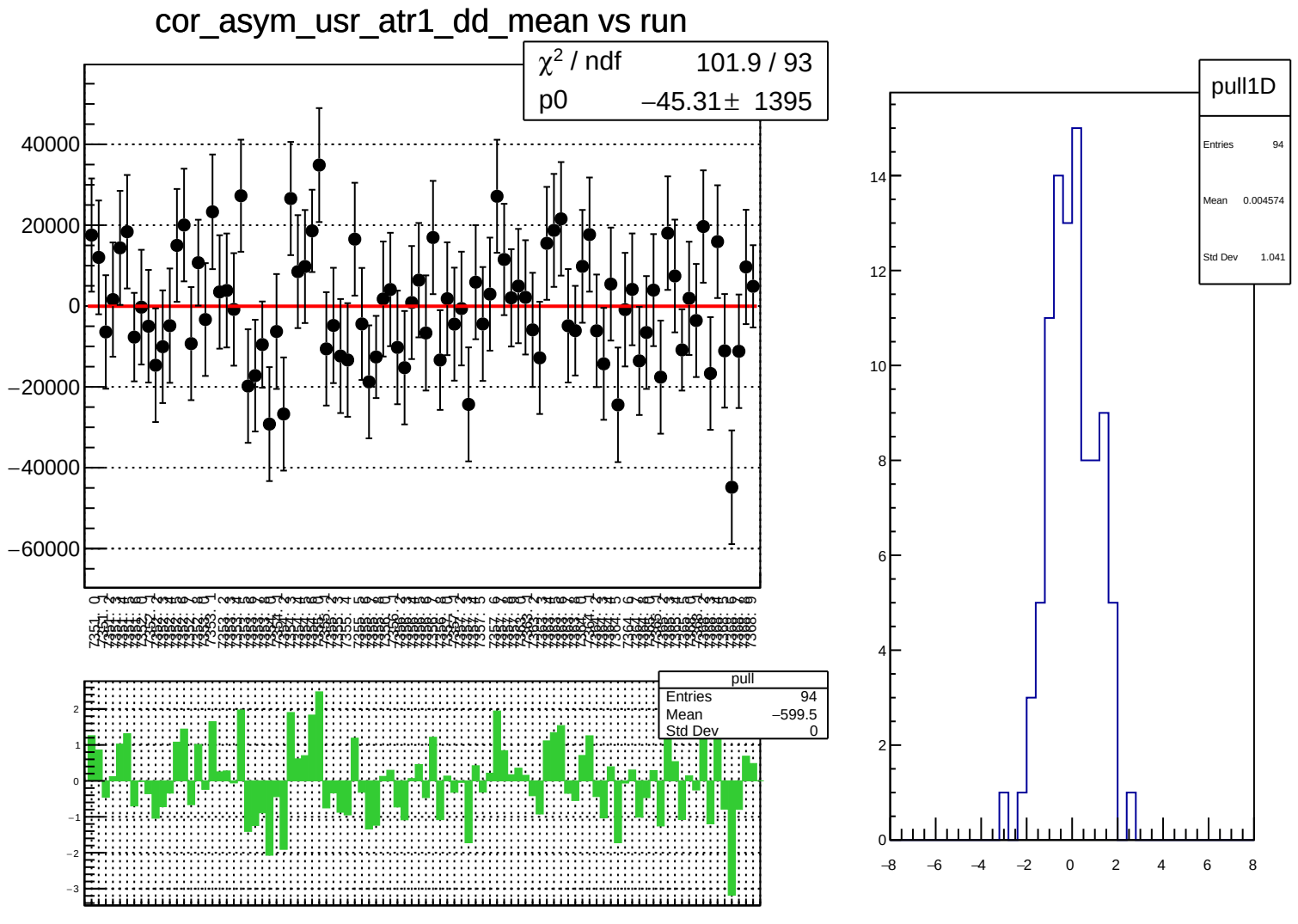

pull1D
Entries 94
Mean 0.004572
Std Dev 1.041
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

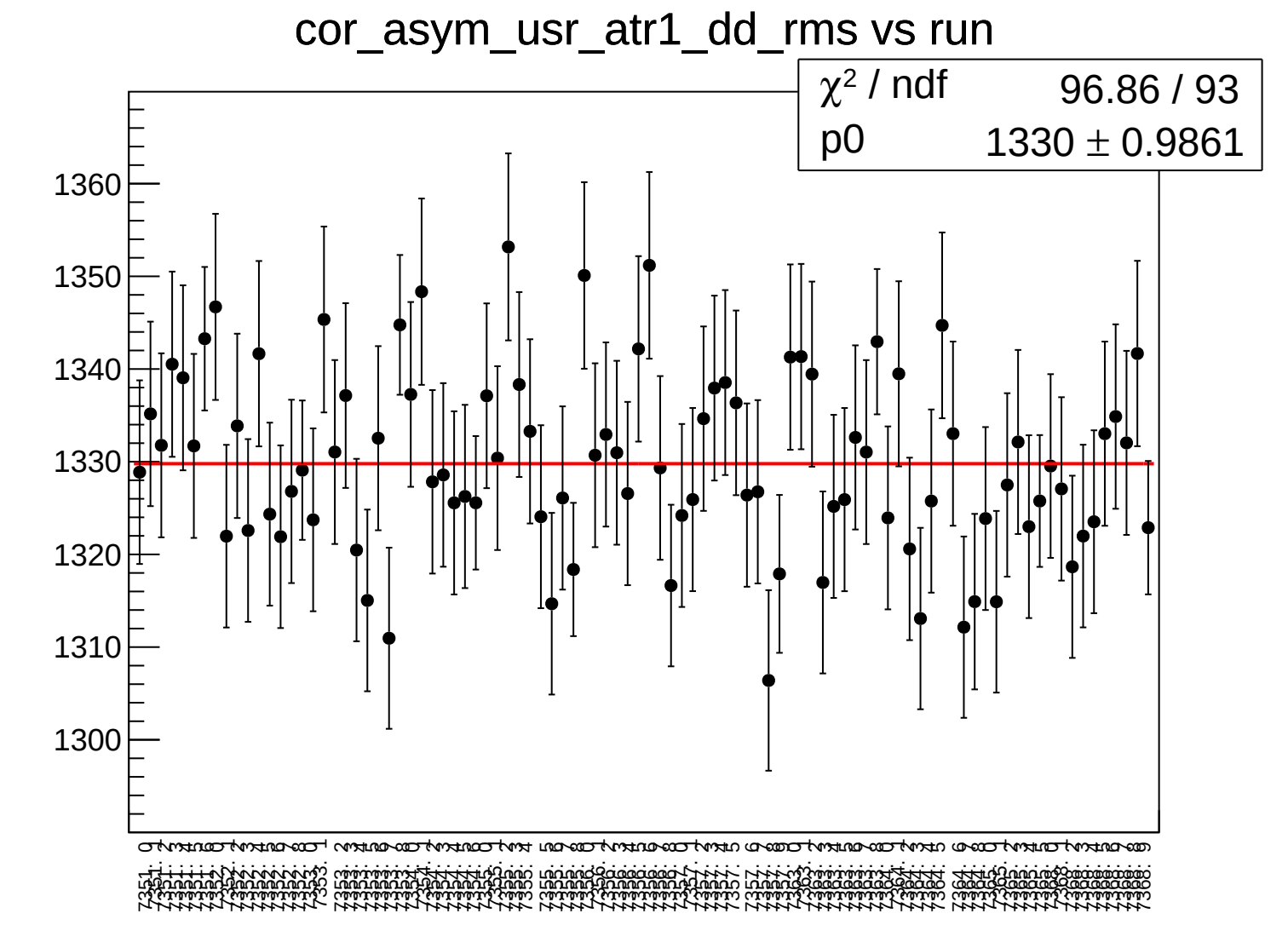

reg_asym_usr_atr1_dd_rms vs run
χ² / ndf 96.86 / 93
p0 1330 ± 0.9861
1360
1350
1340
1330
1320
1310
1300

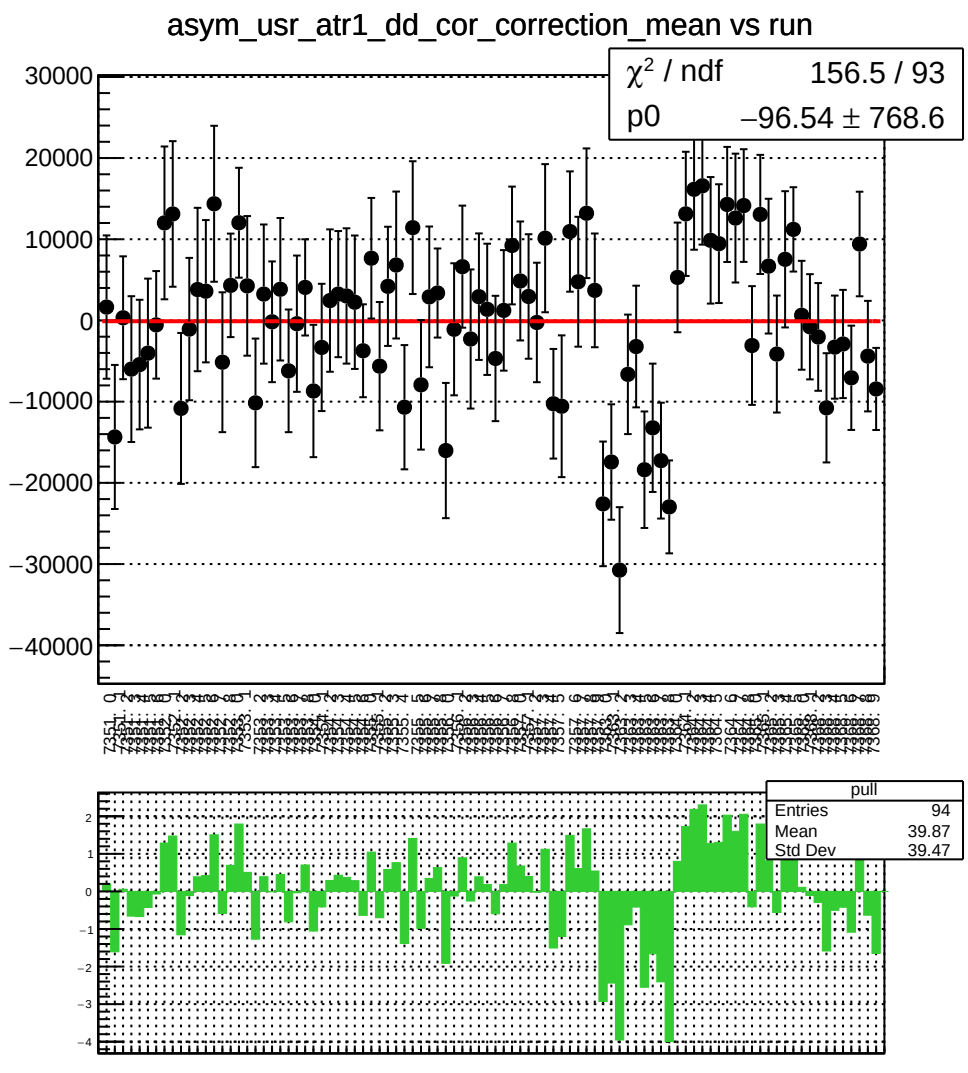

asym_usr_atr1_dd_reg_correction_mean vs run
χ² / ndf 156.5 / 93
p0 −96.12 ± 768.6
pull
Entries 94
Mean 40.02
Std Dev 39.55

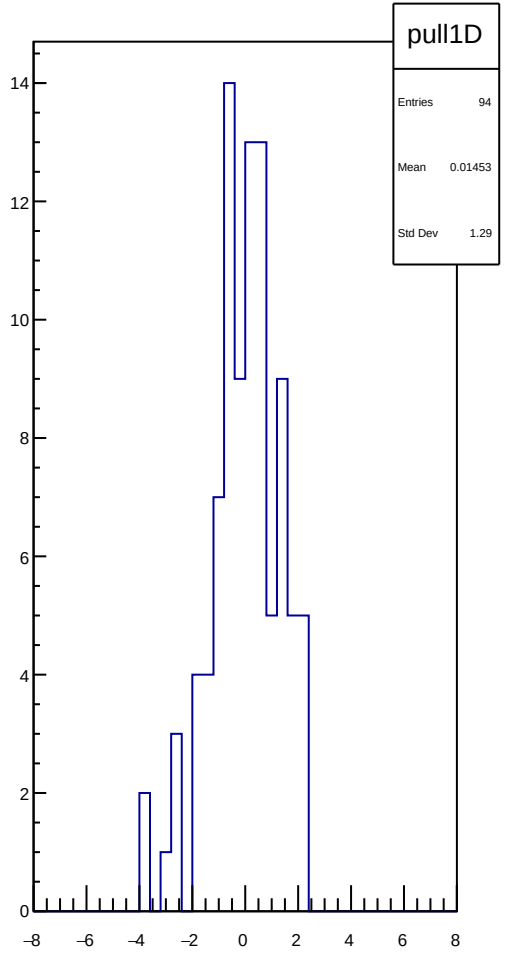

pull1D
Entries 94
Mean 0.0145
Std Dev 1.29

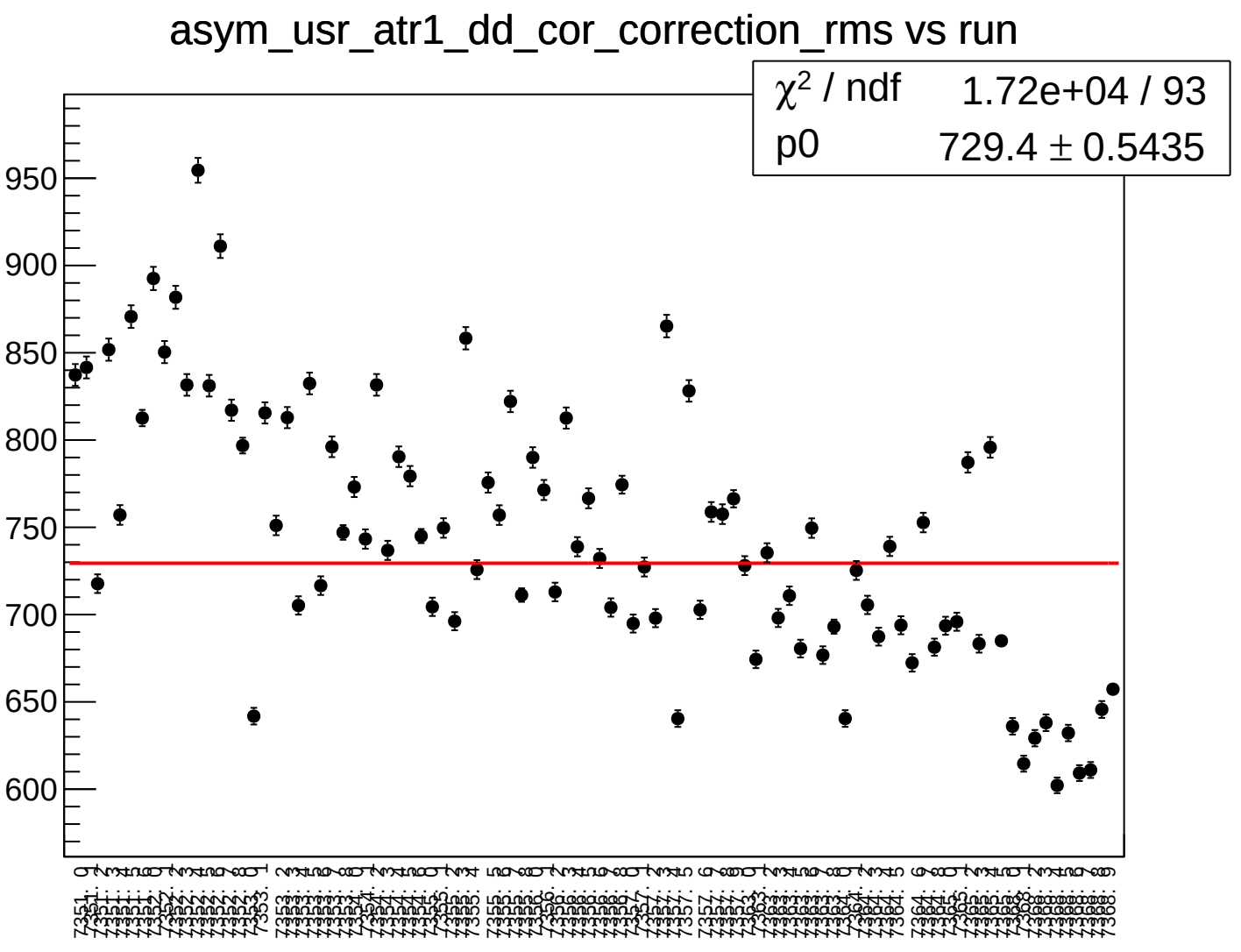

asym_usr_atr1_dd_reg_correction_rms vs run
χ² / ndf 1.72e+04 / 93
p0 729.4 ± 0.5435
950
900
850
800
750
700
650
600

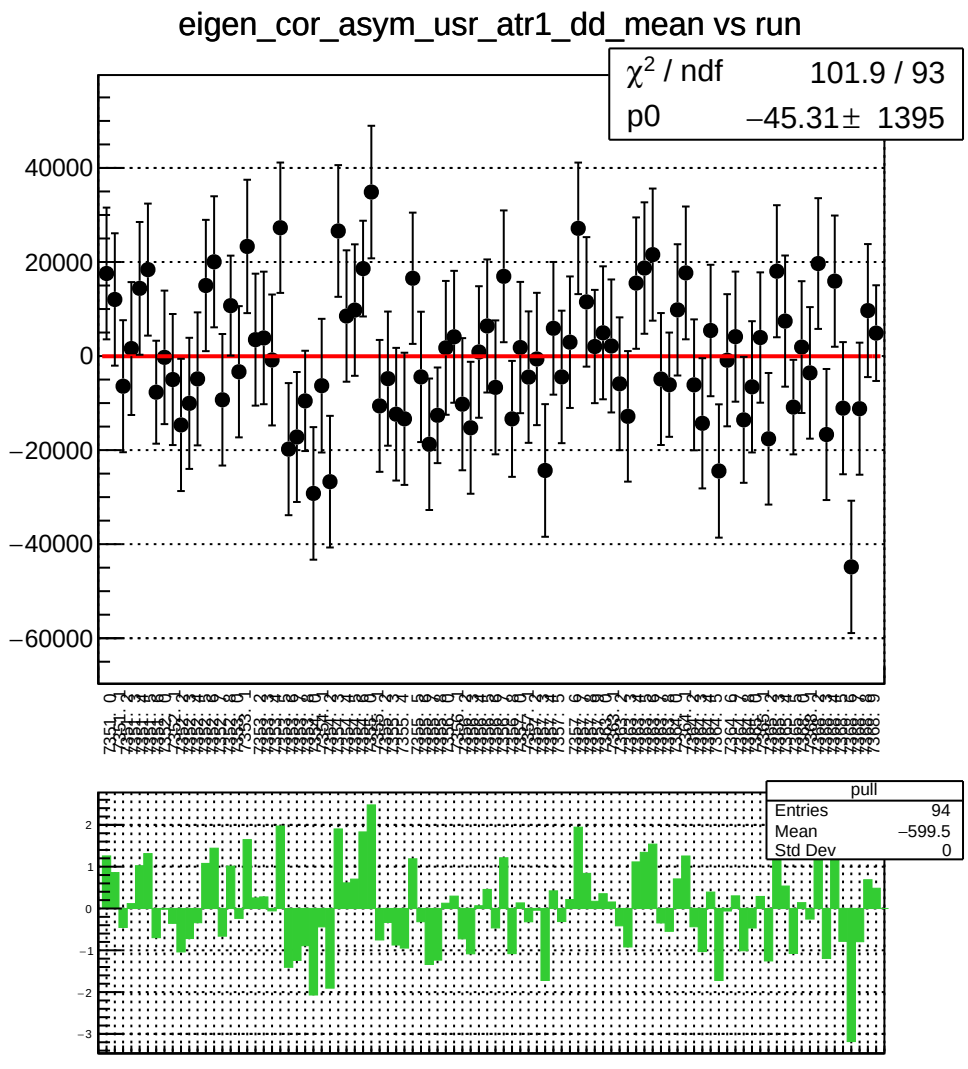

cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 101.9 / 93
p0 −45.31± 1395
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −599.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.004574
Std Dev 1.041
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

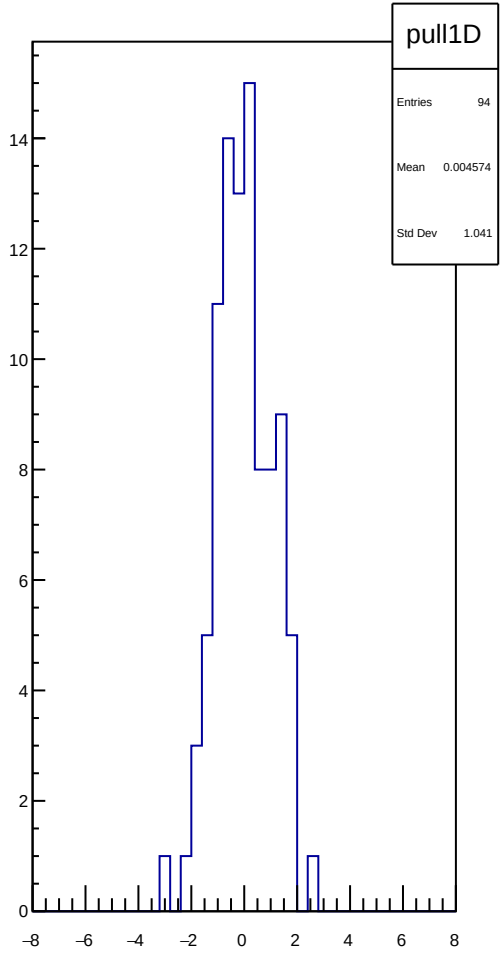

cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 96.86 / 93
p0 1330 ± 0.9861
1360
1350
1340
1330
1320
1310
1300

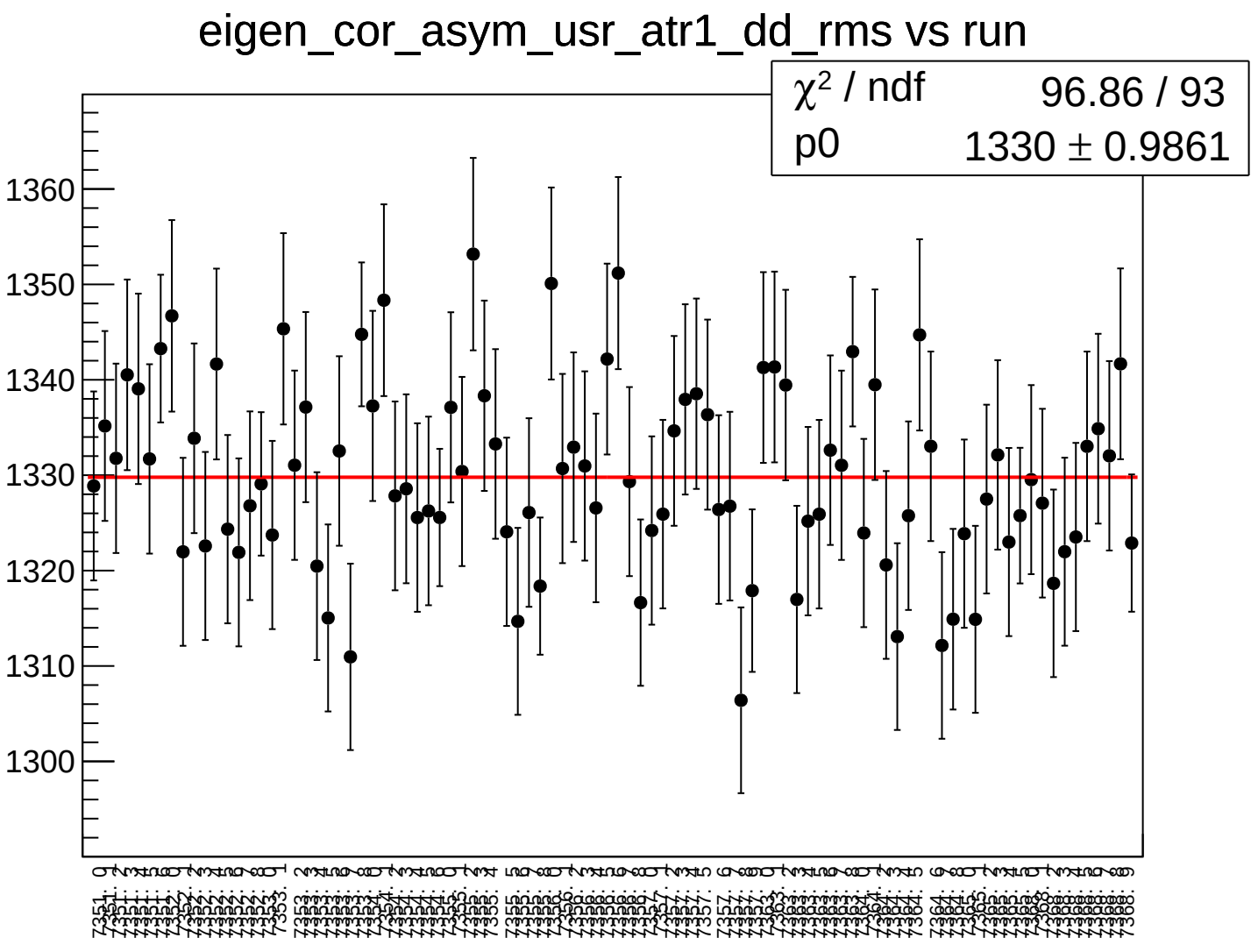

asym_usr_atr1_dd_cor_correction_mean vs run
χ² / ndf 156.5 / 93
p0 −96.54 ± 768.6
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 94
Mean 39.87
Std Dev 39.47
2
1
0
−1
−2
−3
−4

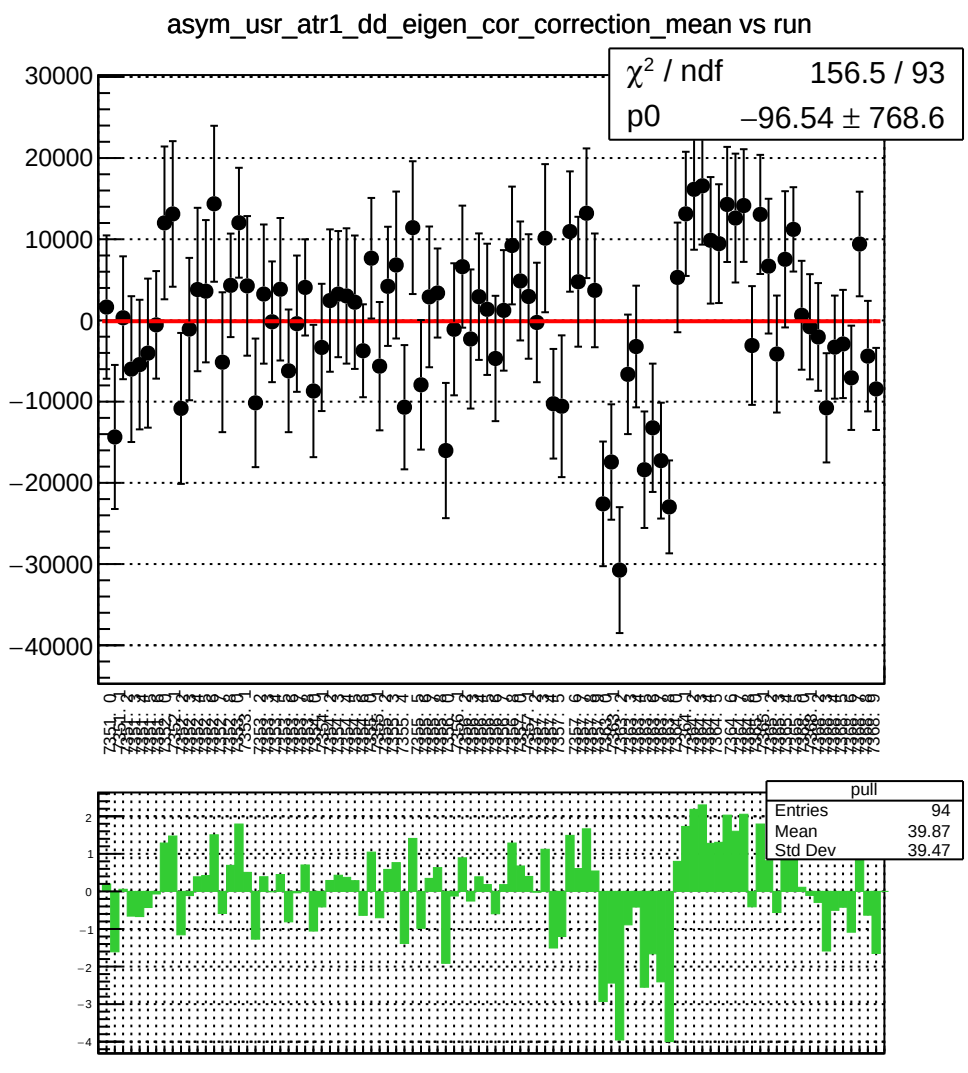

pull1D
Entries 94
Mean 0.01453
Std Dev 1.29
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

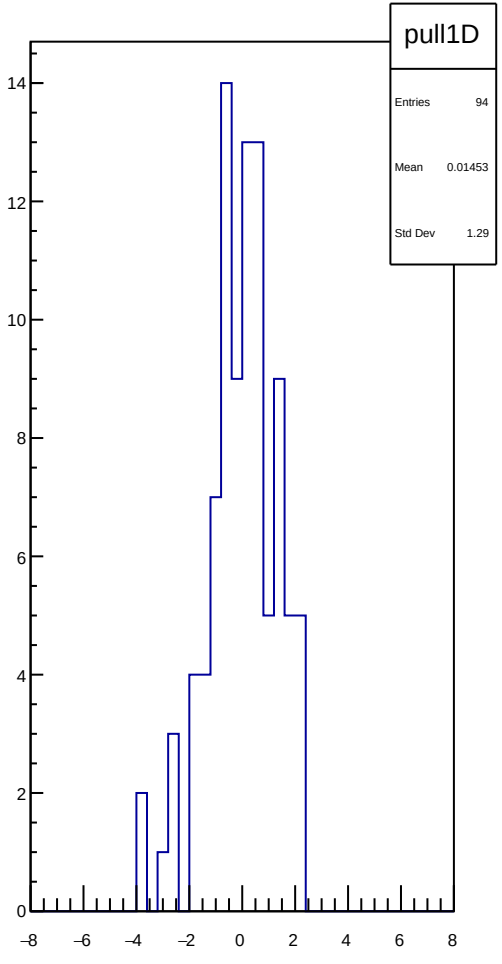

asym_usr_atr1_dd_cor_correction_rms vs run
χ² / ndf 1.72e+04 / 93
p0 729.4 ± 0.5435
950
900
850
800
750
700
650
600

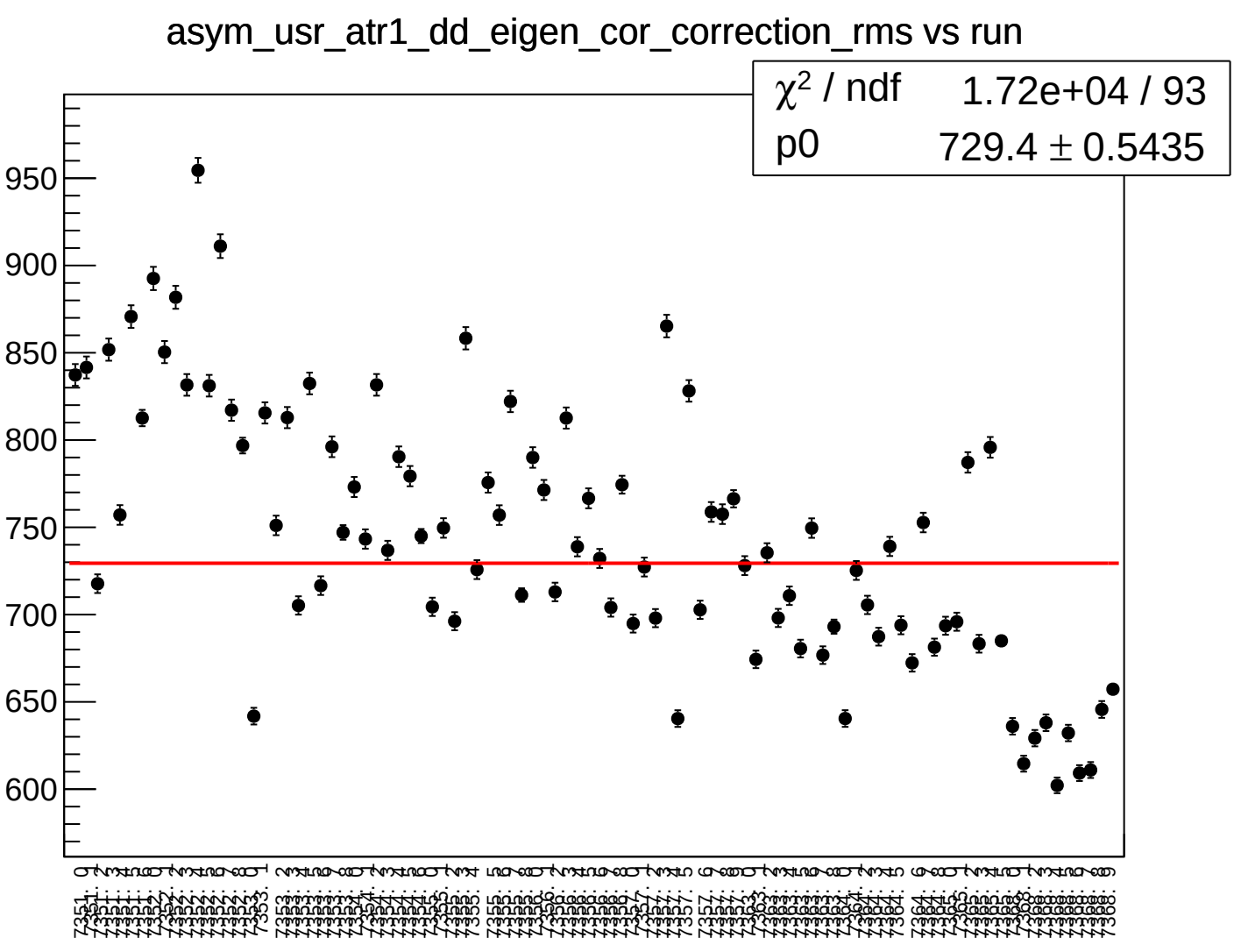

eigen_cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 101.9 / 93
p0 −45.31± 1395
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −599.5
Std Dev 0
2
1
0
−1
−2
−3

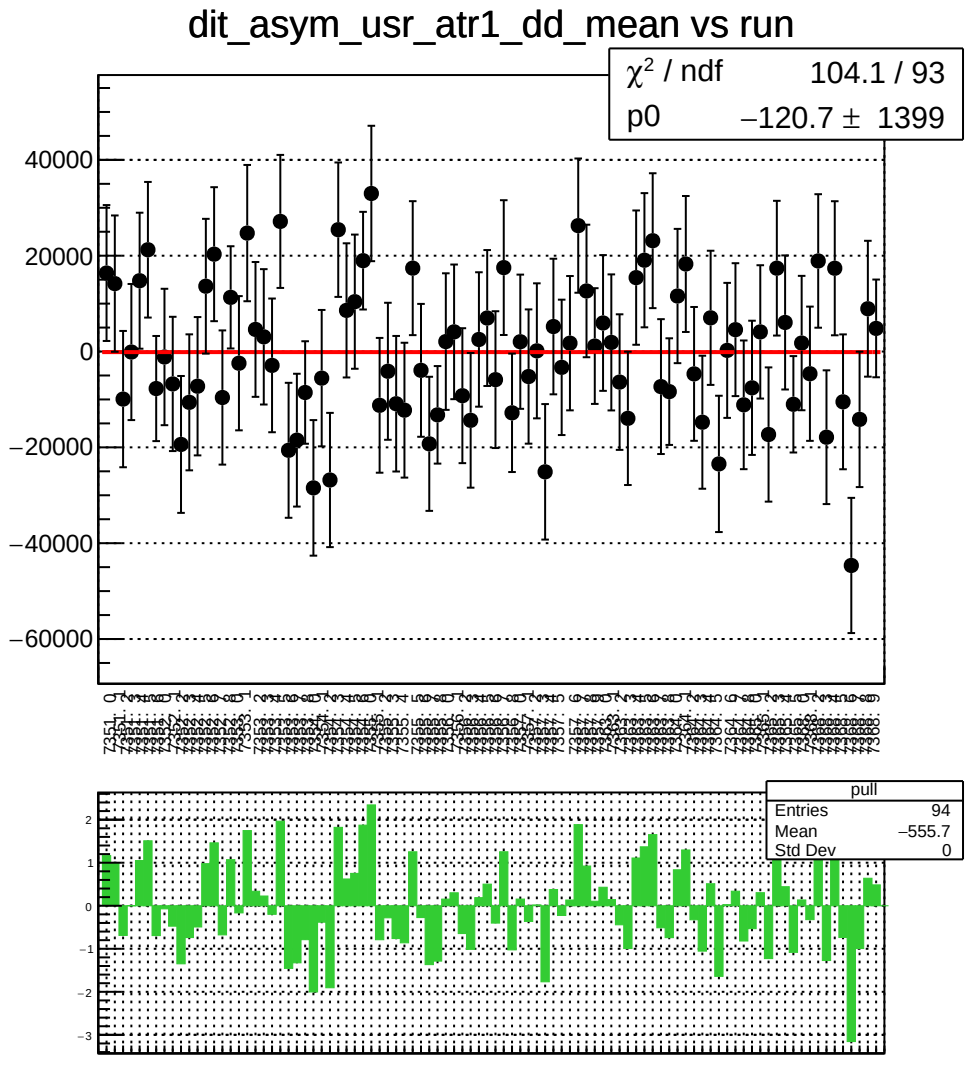

pull1D
Entries 94
Mean 0.004574
Std Dev 1.041
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

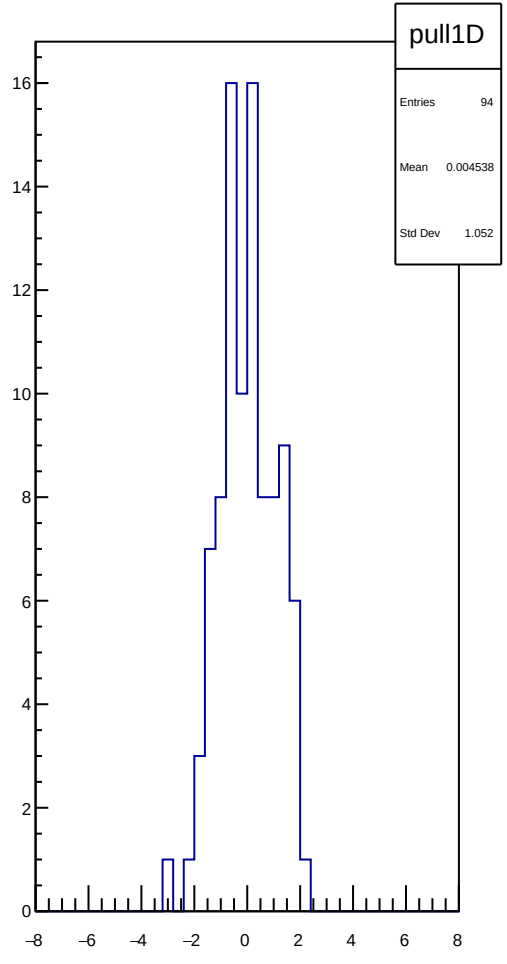

eigen_cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 96.86 / 93
p0 1330 ± 0.9861
1360
1350
1340
1330
1320
1310
1300

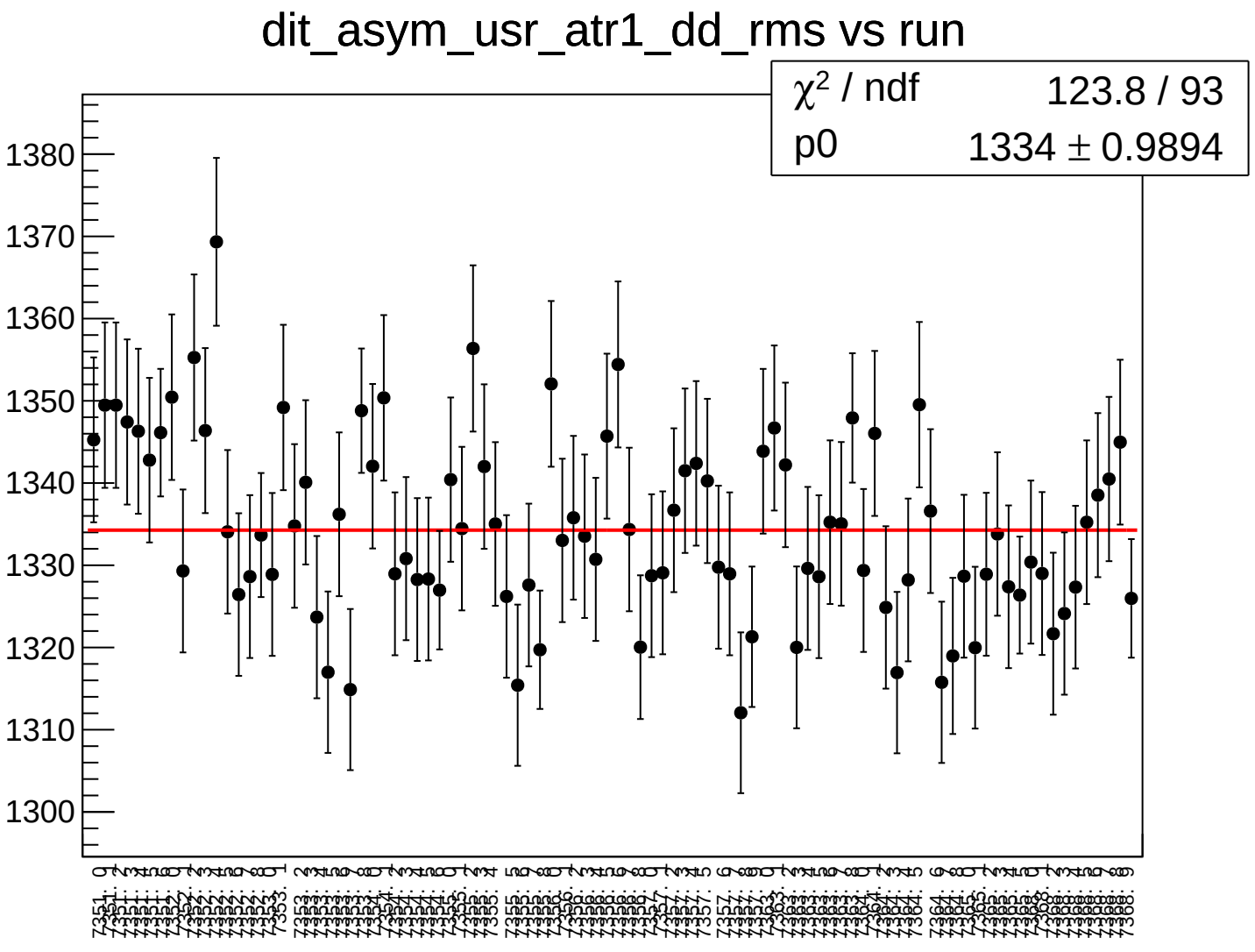

asym_usr_atr1_dd_eigen_cor_correction_mean vs run
χ² / ndf 156.5 / 93
p0 −96.54 ± 768.6
pull
Entries 94
Mean 39.87
Std Dev 39.47

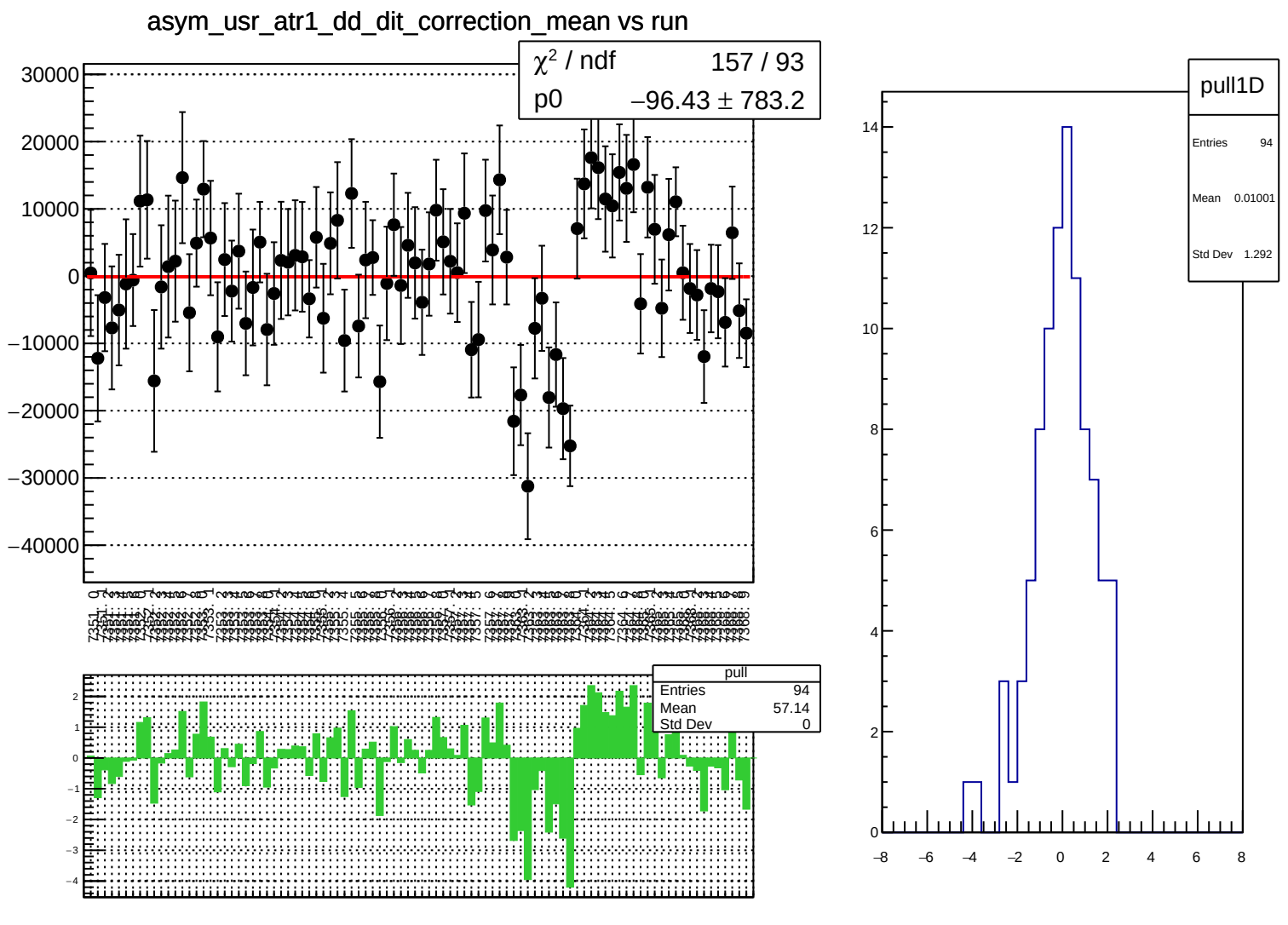

pull1D
Entries 94
Mean 0.01453
Std Dev 1.29

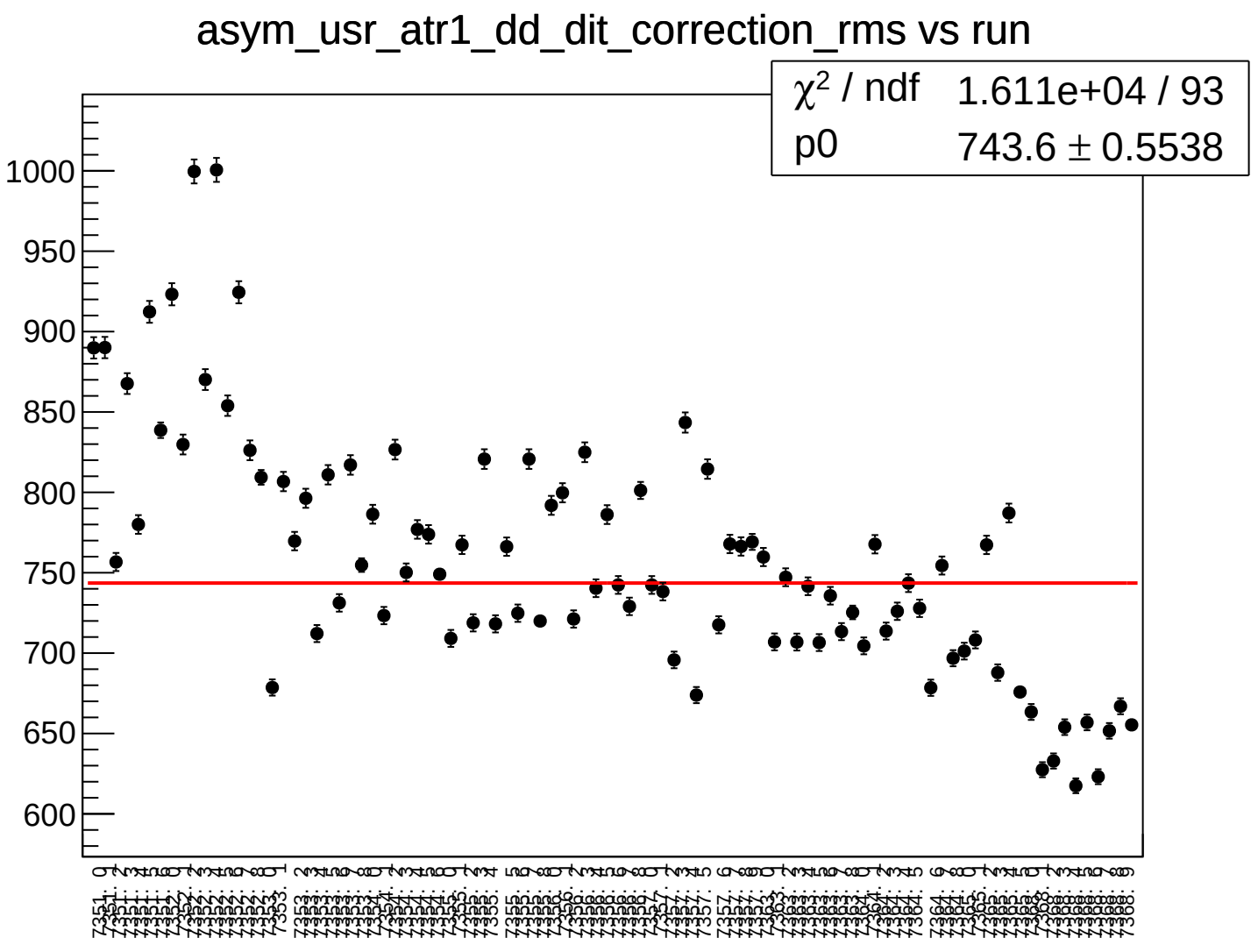

asym_usr_atr1_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.72e+04 / 93
p0 729.4 ± 0.5435
950
900
850
800
750
700
650
600

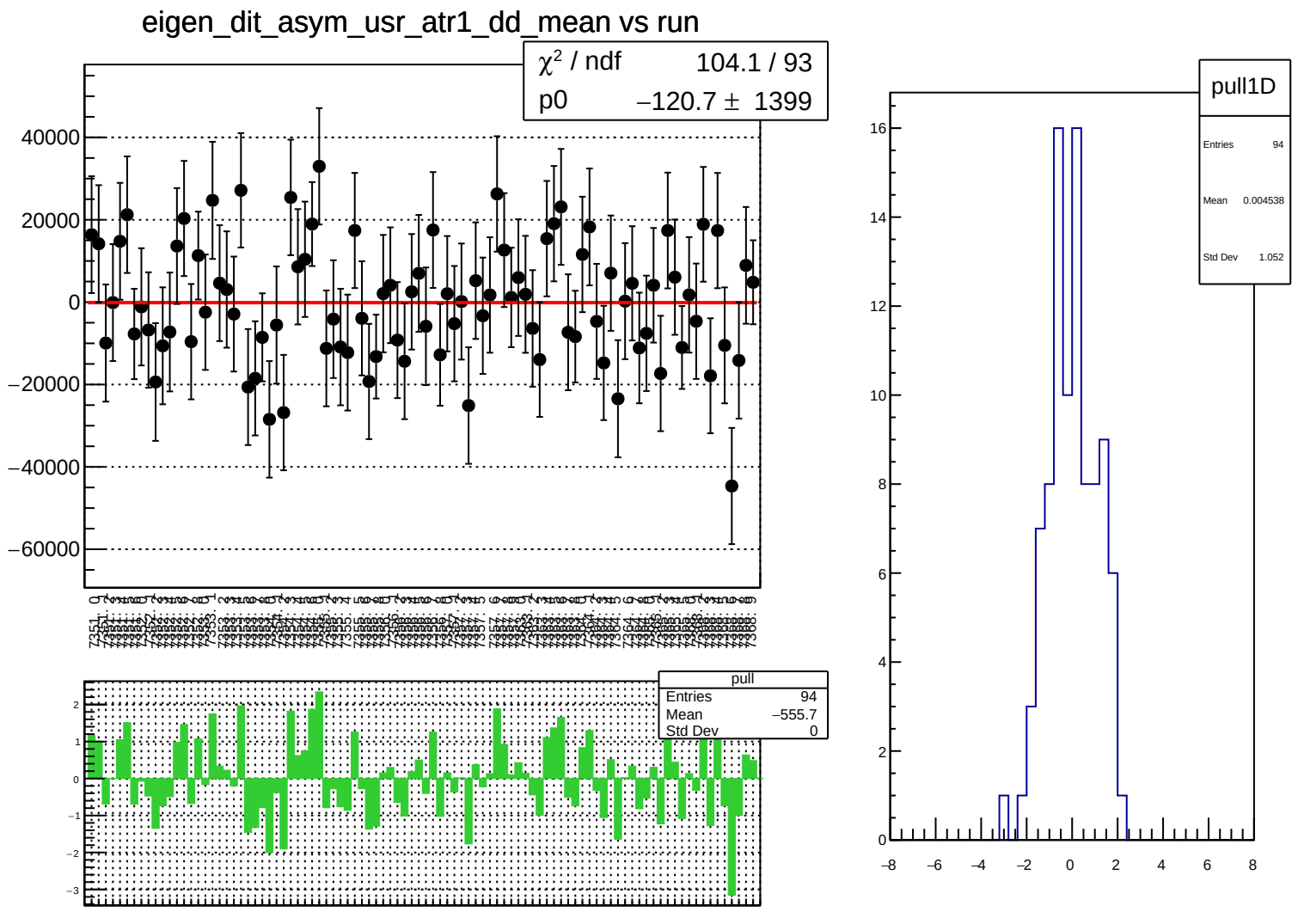

dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 104.1 / 93
p0 −120.7 ± 1399
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −555.7
Std Dev 0
2
1
0
−1
−2
−3

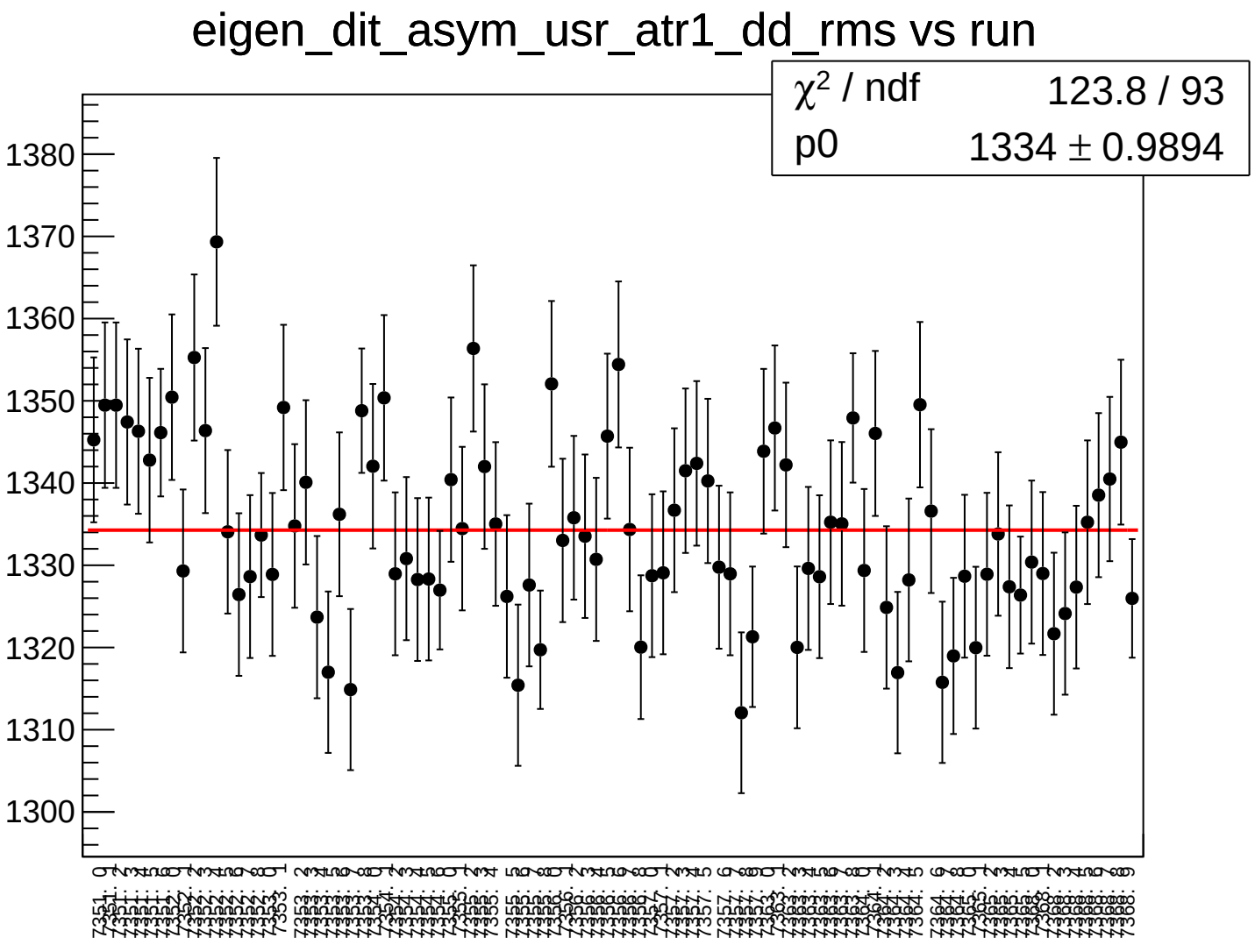

pull1D
Entries 94
Mean 0.004538
Std Dev 1.052
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

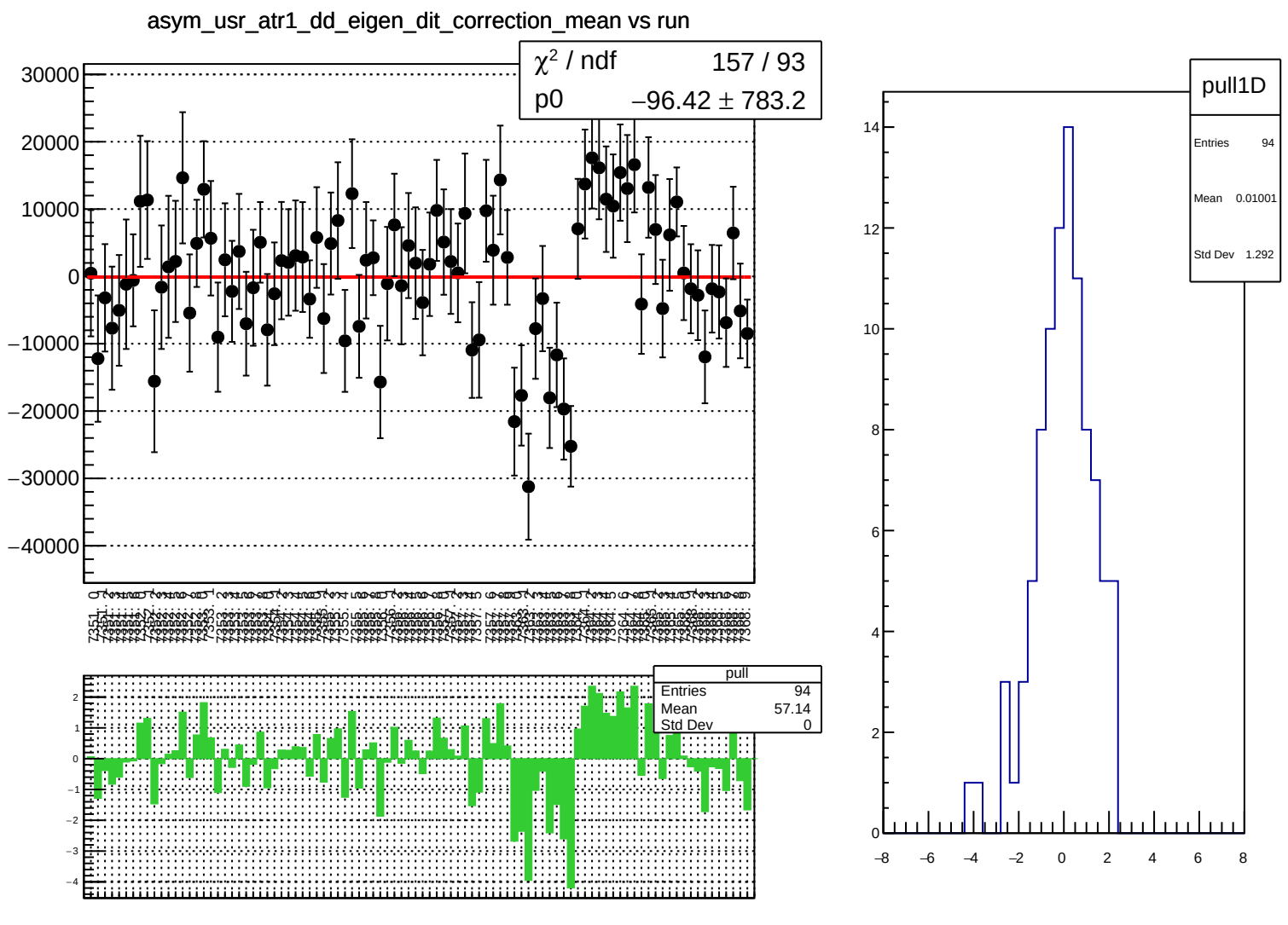

dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 123.8 / 93
p0 1334 ± 0.9894
1380
1370
1360
1350
1340
1330
1320
1310
1300

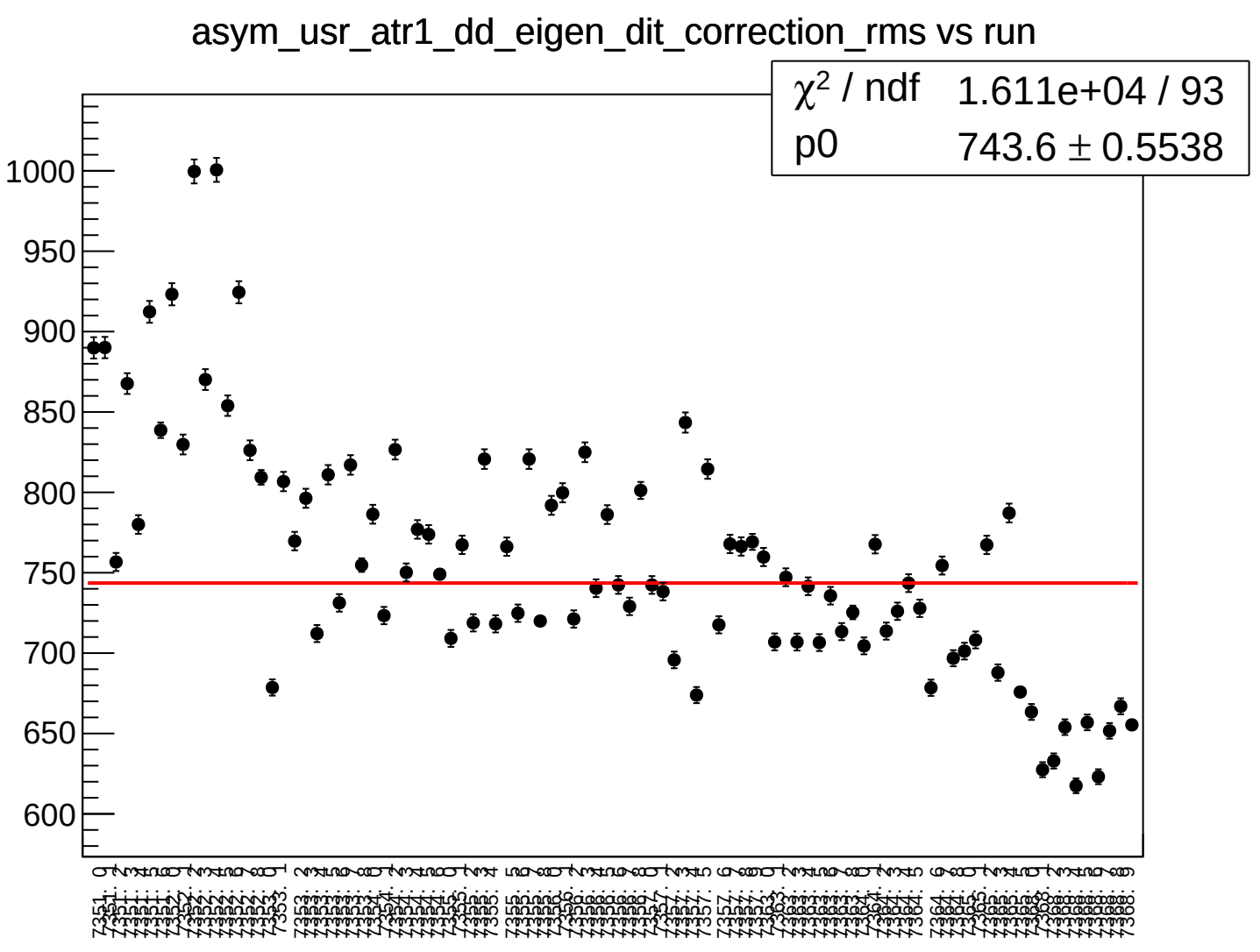

asym_usr_atr1_dd_dit_correction_mean vs run
χ² / ndf 157 / 93
p0 −96.43 ± 783.2
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 94
Mean 57.14
Std Dev 0
pull1D
Entries 94
Mean 0.01001
Std Dev 1.292
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

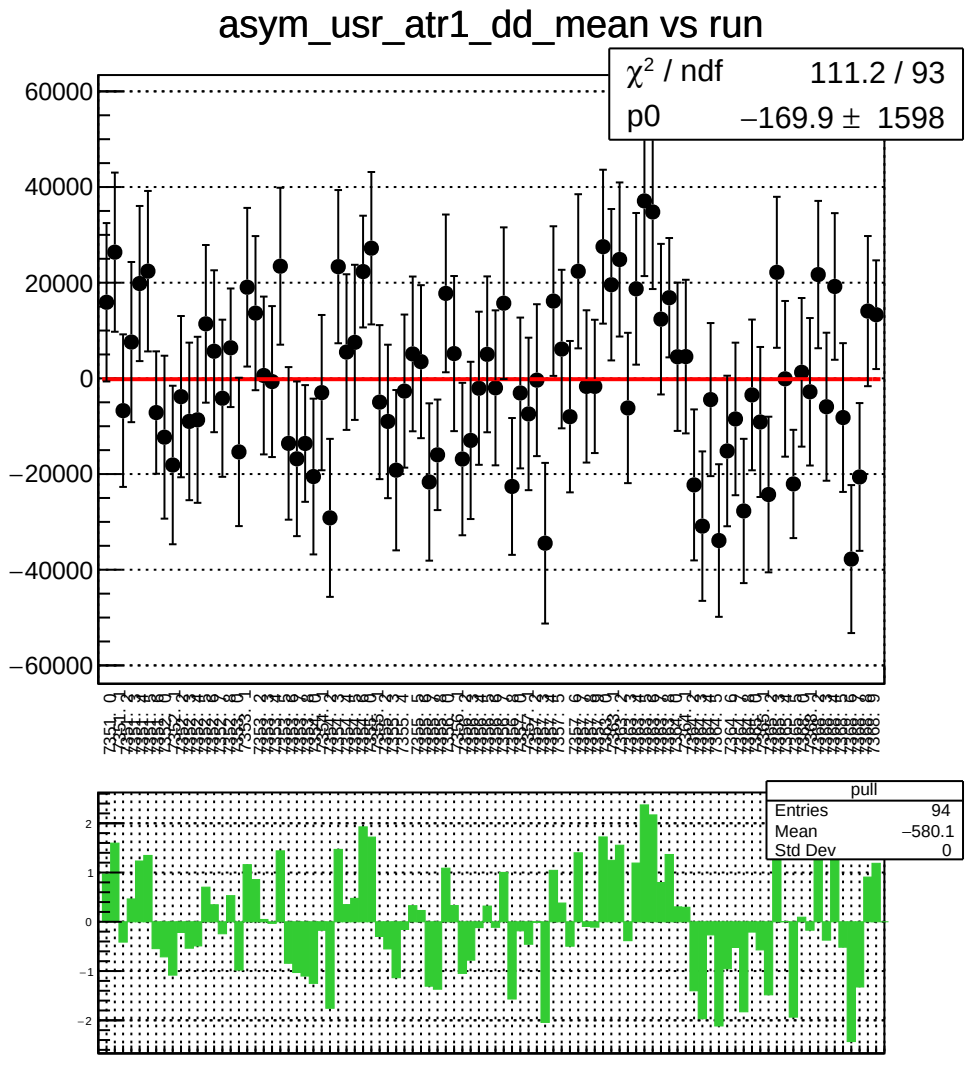

asym_usr_atr1_dd_dit_correction_rms vs run
χ² / ndf 1.611e+04 / 93
p0 743.6 ± 0.5538
1000
950
900
850
800
750
700
650
600

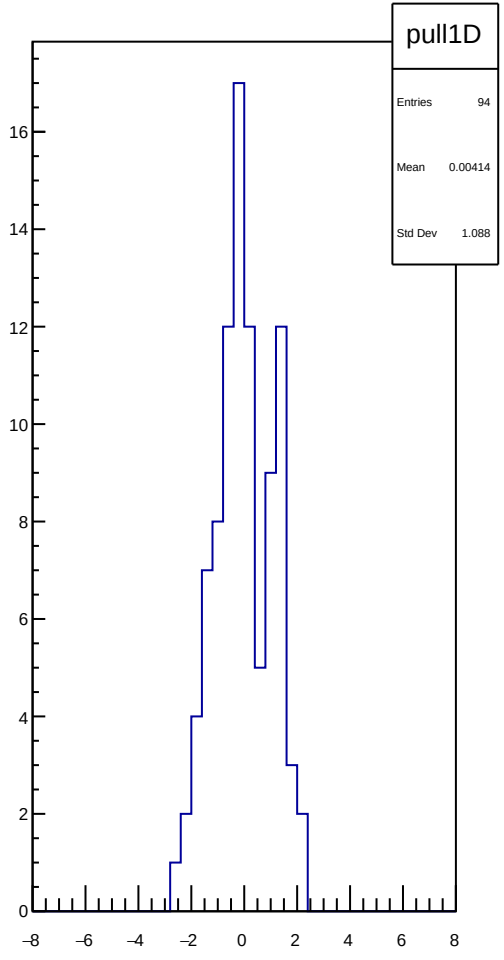

eigen_dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 104.1 / 93
p0 −120.7 ± 1399
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −555.7
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.004538
Std Dev 1.052
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

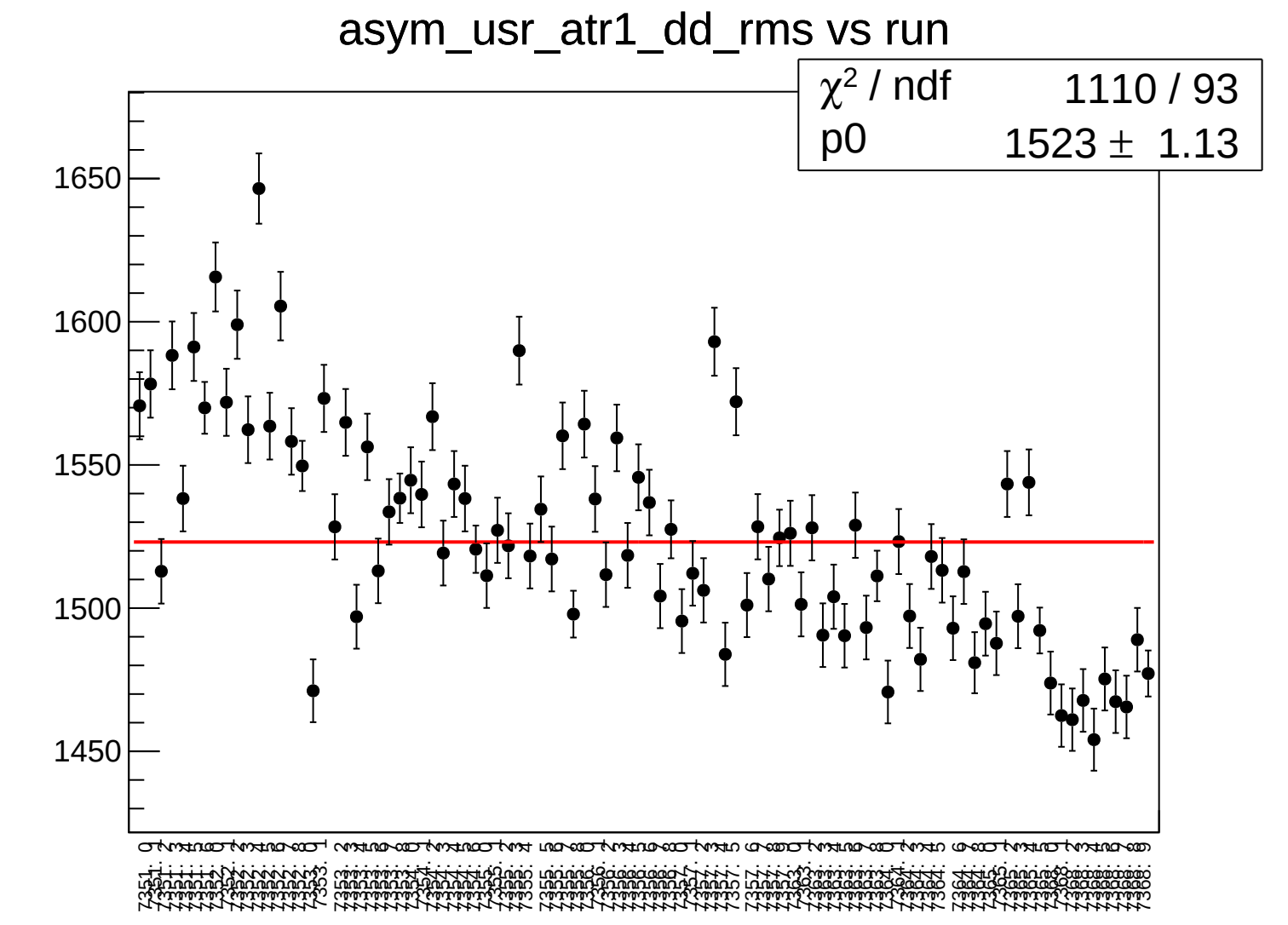

eigen_dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 123.8 / 93
p0 1334 ± 0.9894
1380
1370
1360
1350
1340
1330
1320
1310
1300

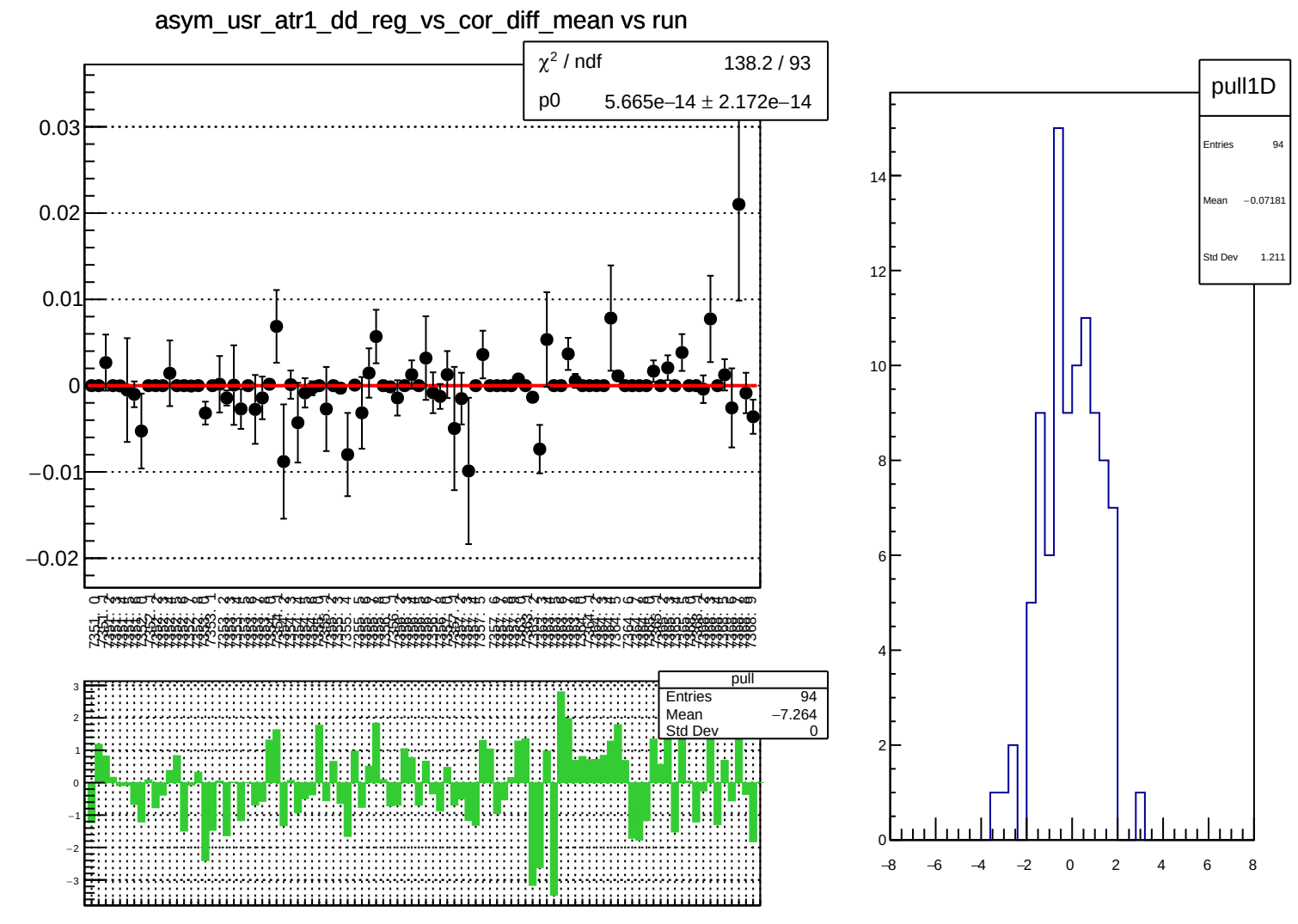

asym_usr_atr1_dd_eigen_dit_correction_mean vs run
χ² / ndf 157 / 93
p0 −96.42 ± 783.2
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 94
Mean 57.14
Std Dev 0
2
1
0
−1
−2
−3
−4
pull1D
Entries 94
Mean 0.01001
Std Dev 1.292
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

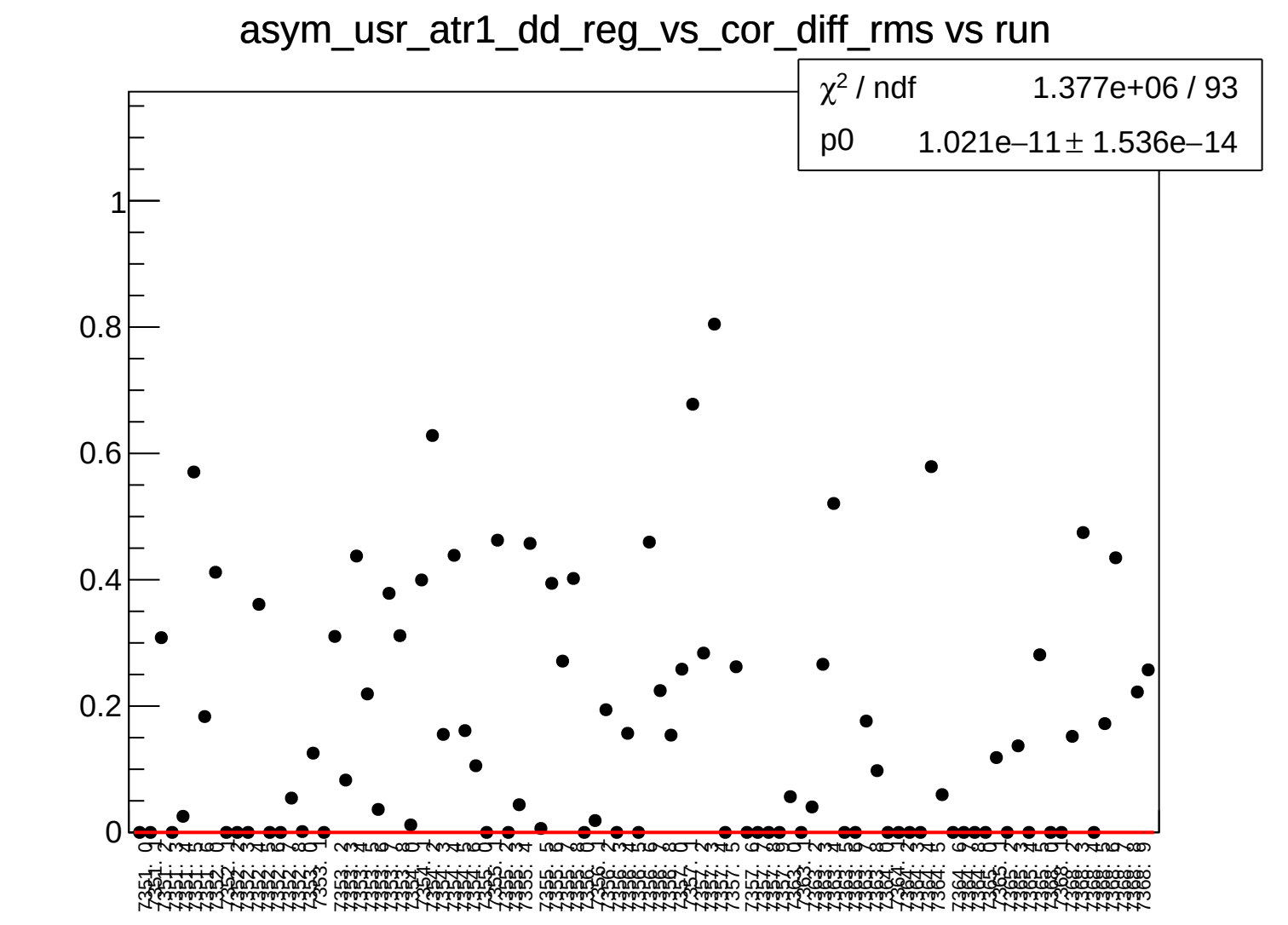

asym_usr_atr1_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.611e+04 / 93
p0 743.6 ± 0.5538
1000
950
900
850
800
750
700
650
600

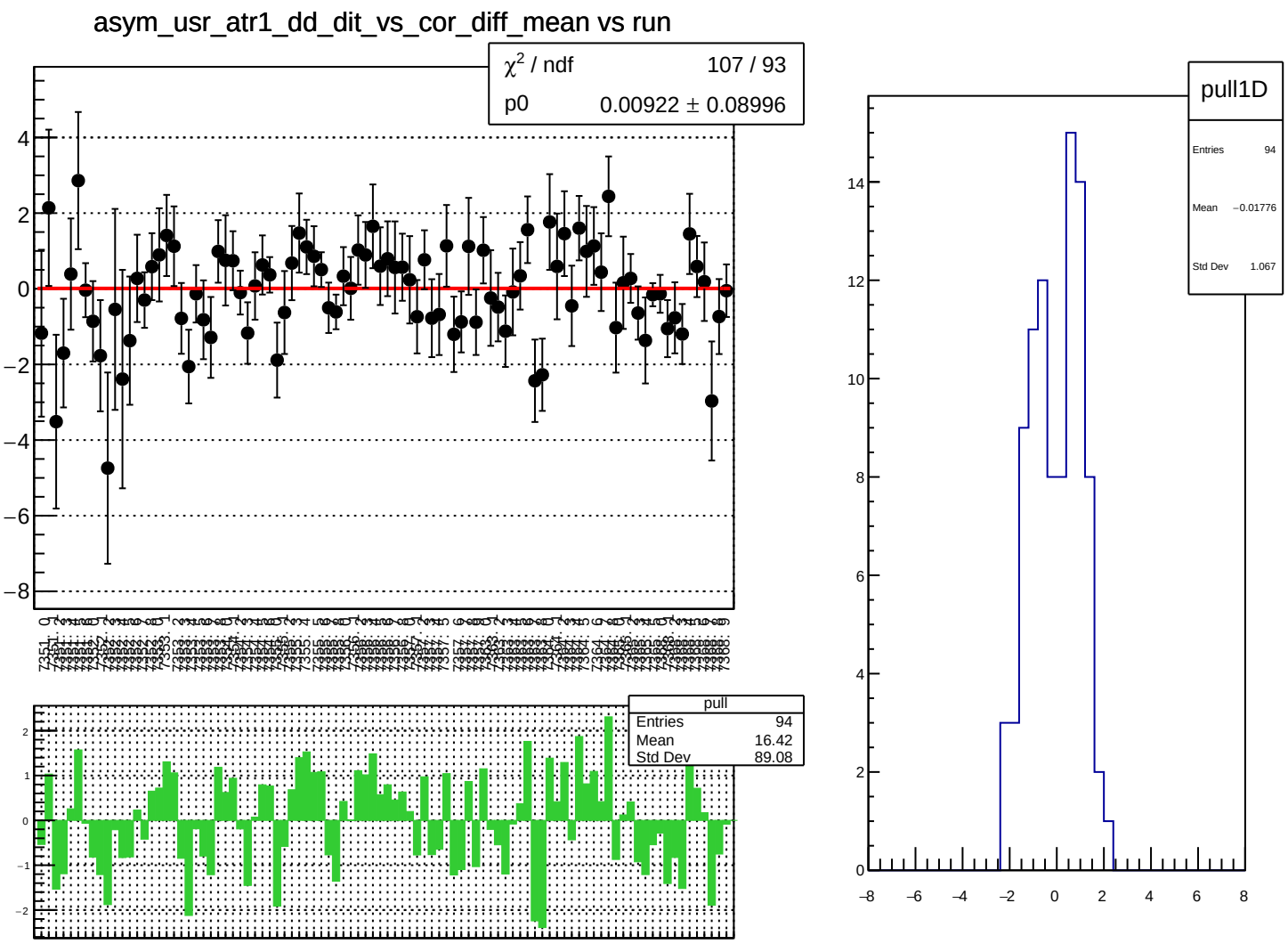

asym_usr_atr1_dd_mean vs run
χ² / ndf 111.2 / 93
p0 −169.9 ± 1598
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −580.1
Std Dev 0
2
1
0
−1
−2

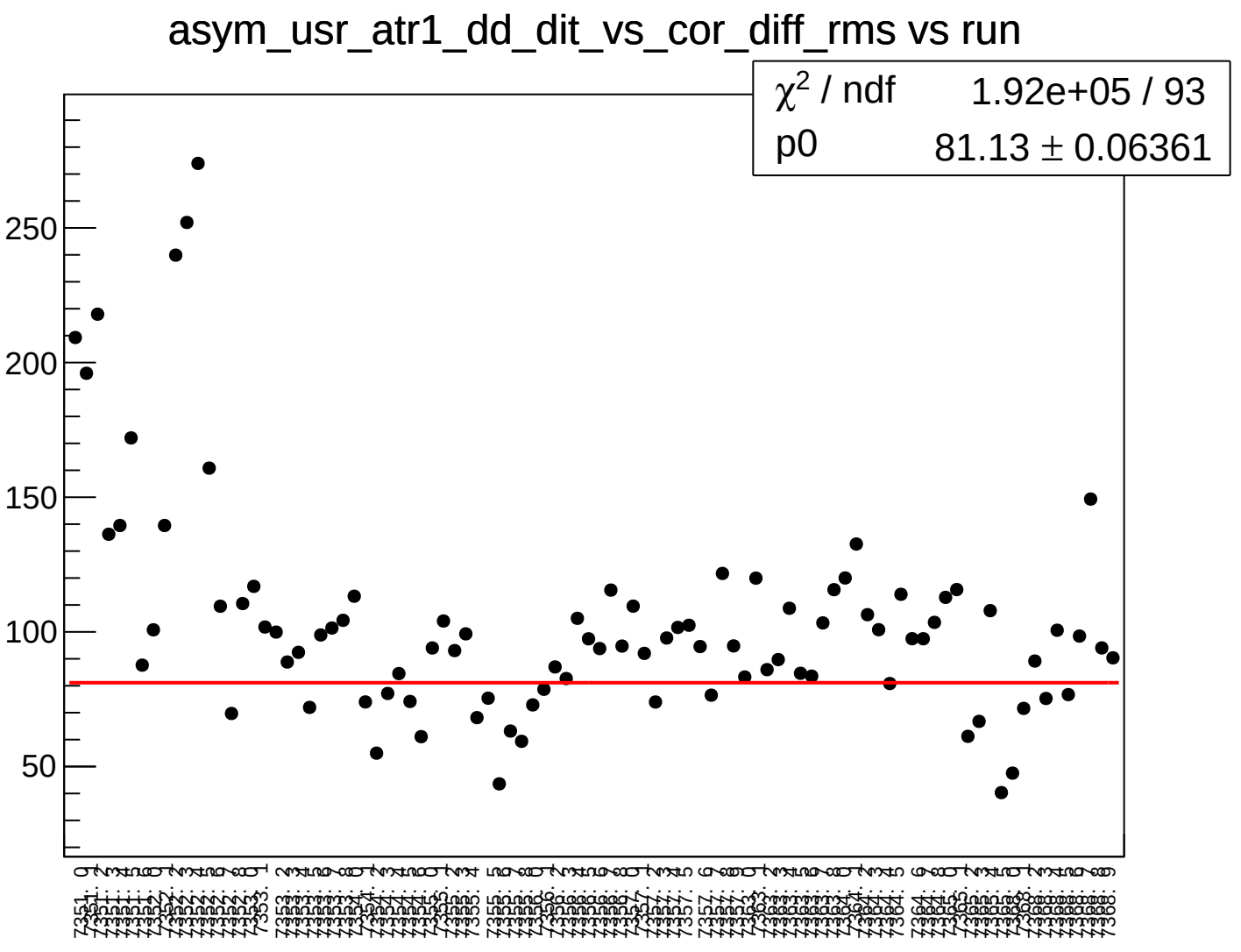

pull1D
Entries 94
Mean 0.00414
Std Dev 1.088
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

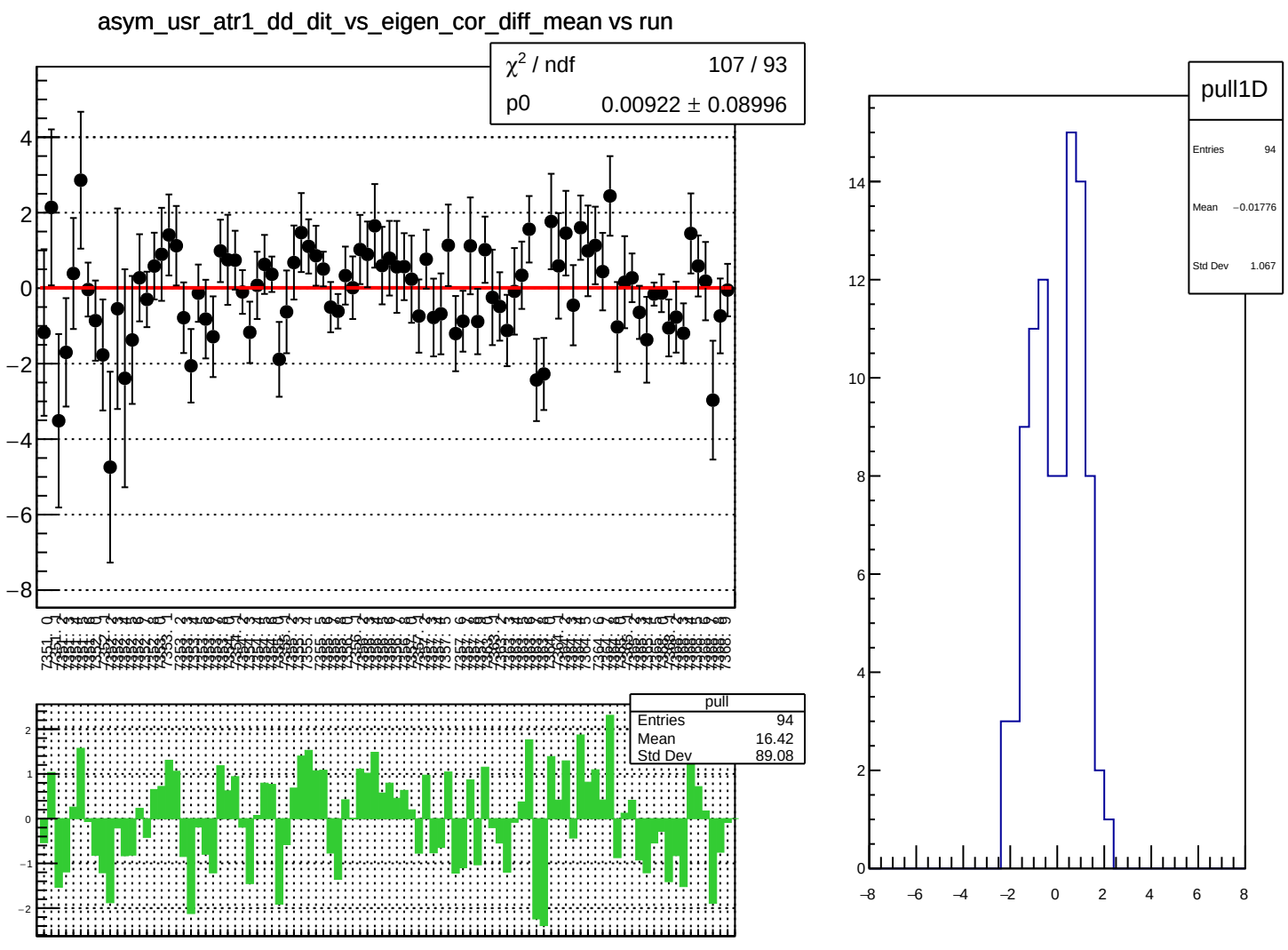

asym_usr_atr1_dd_rms vs run
χ² / ndf 1110 / 93
p0 1523 ± 1.13
1650
1600
1550
1500
1450

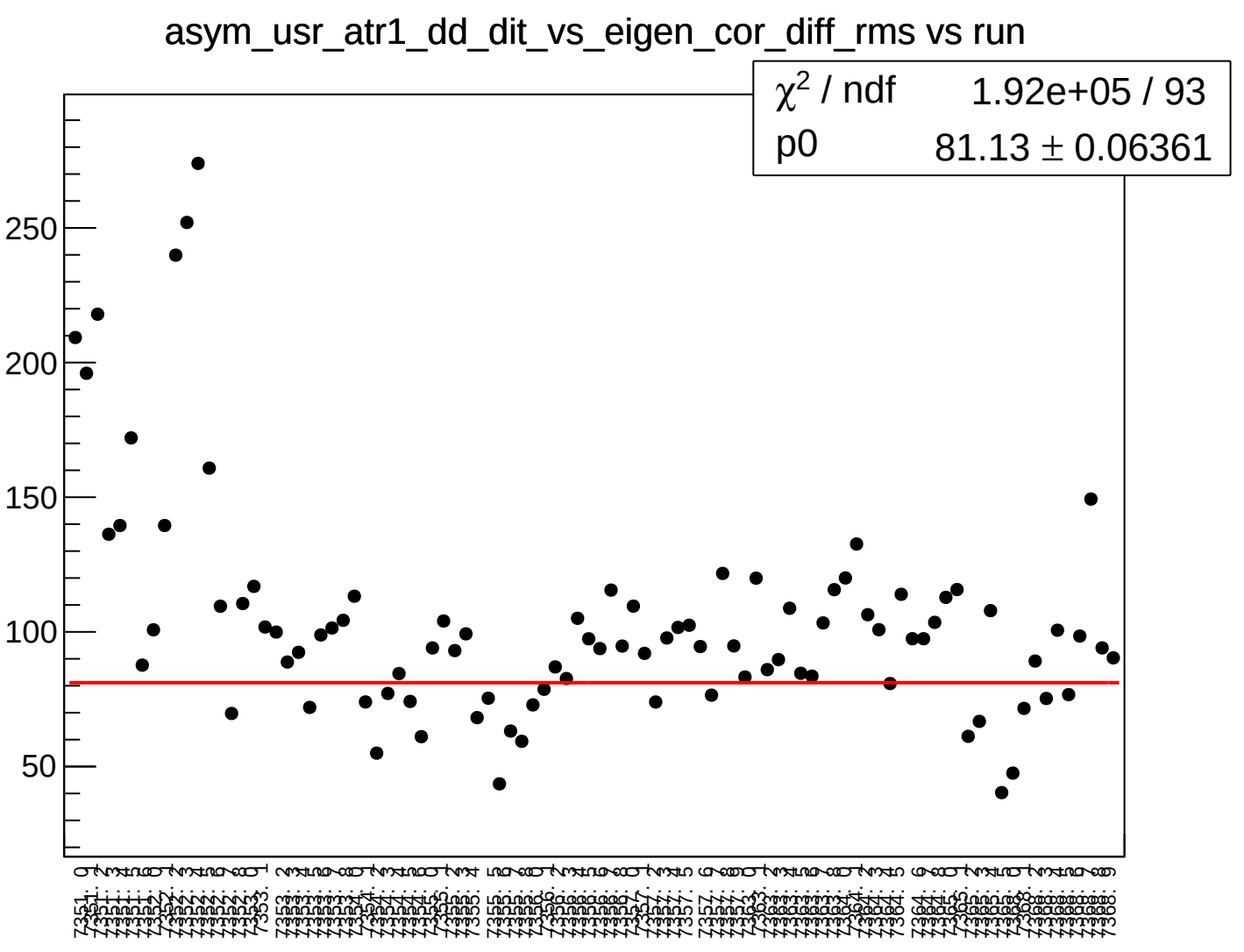

asym_usr_atr1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 138.2 / 93
p0 5.665e−14 ± 2.172e−14
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 94
Mean −7.264
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.07181
Std Dev 1.211
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

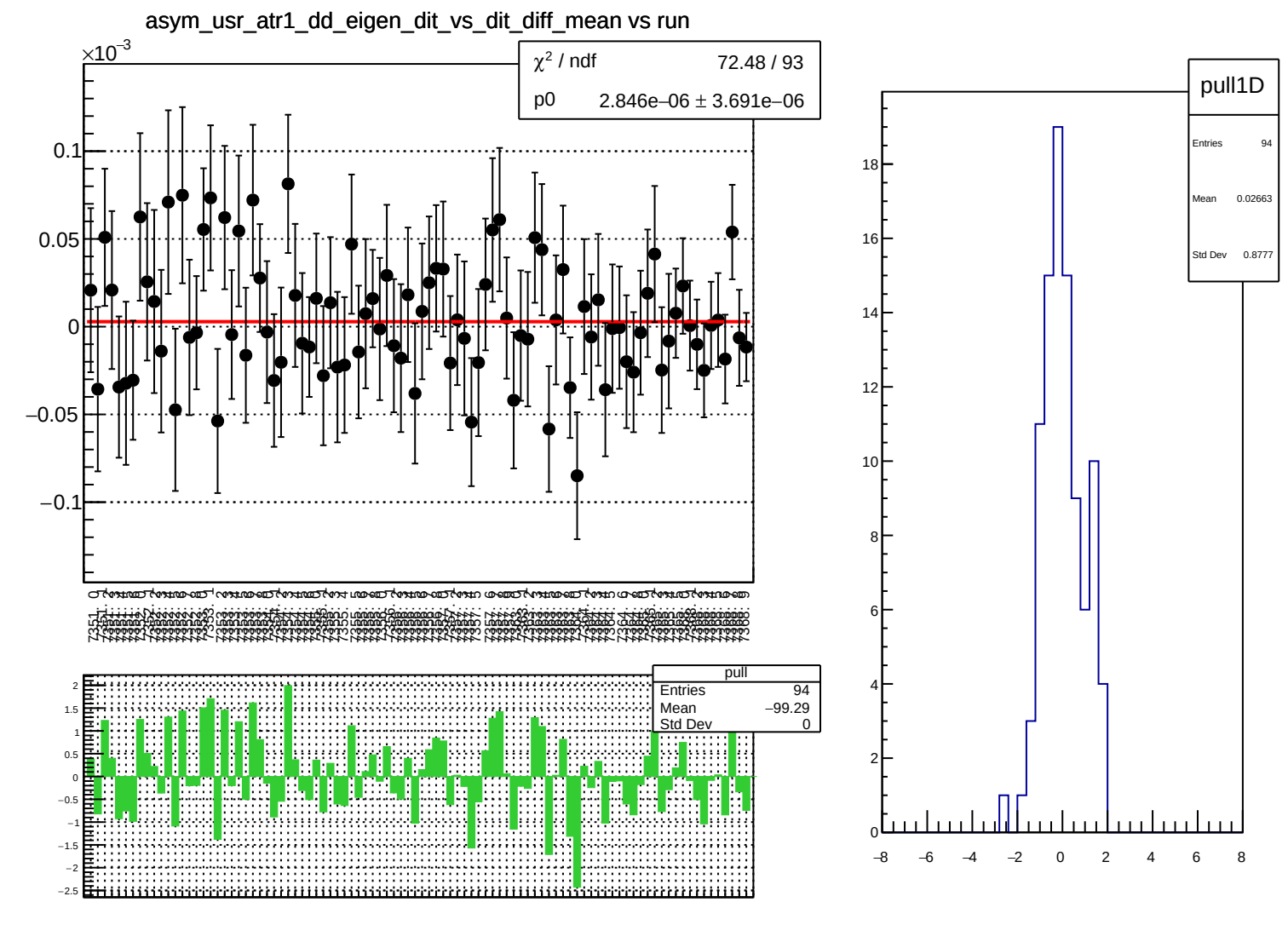

asym_usr_atr1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.377e+06 / 93
p0 1.021e−11 ± 1.536e−14
1
0.8
0.6
0.4
0.2
0

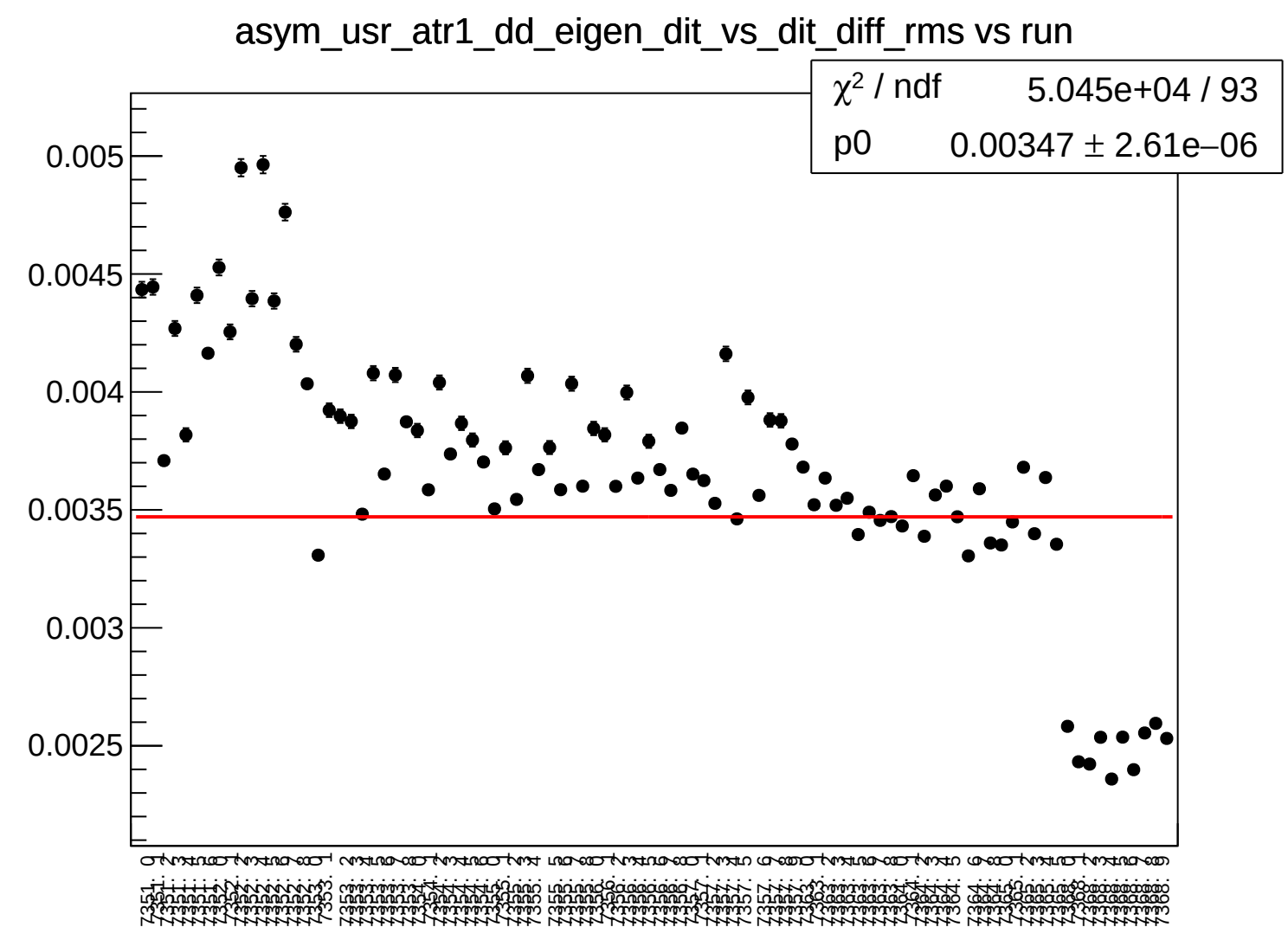

asym_usr_atr1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 107 / 93
p0 0.00922 ± 0.08996
pull
Entries 94
Mean 16.42
Std Dev 89.08
pull1D
Entries 94
Mean −0.01776
Std Dev 1.067

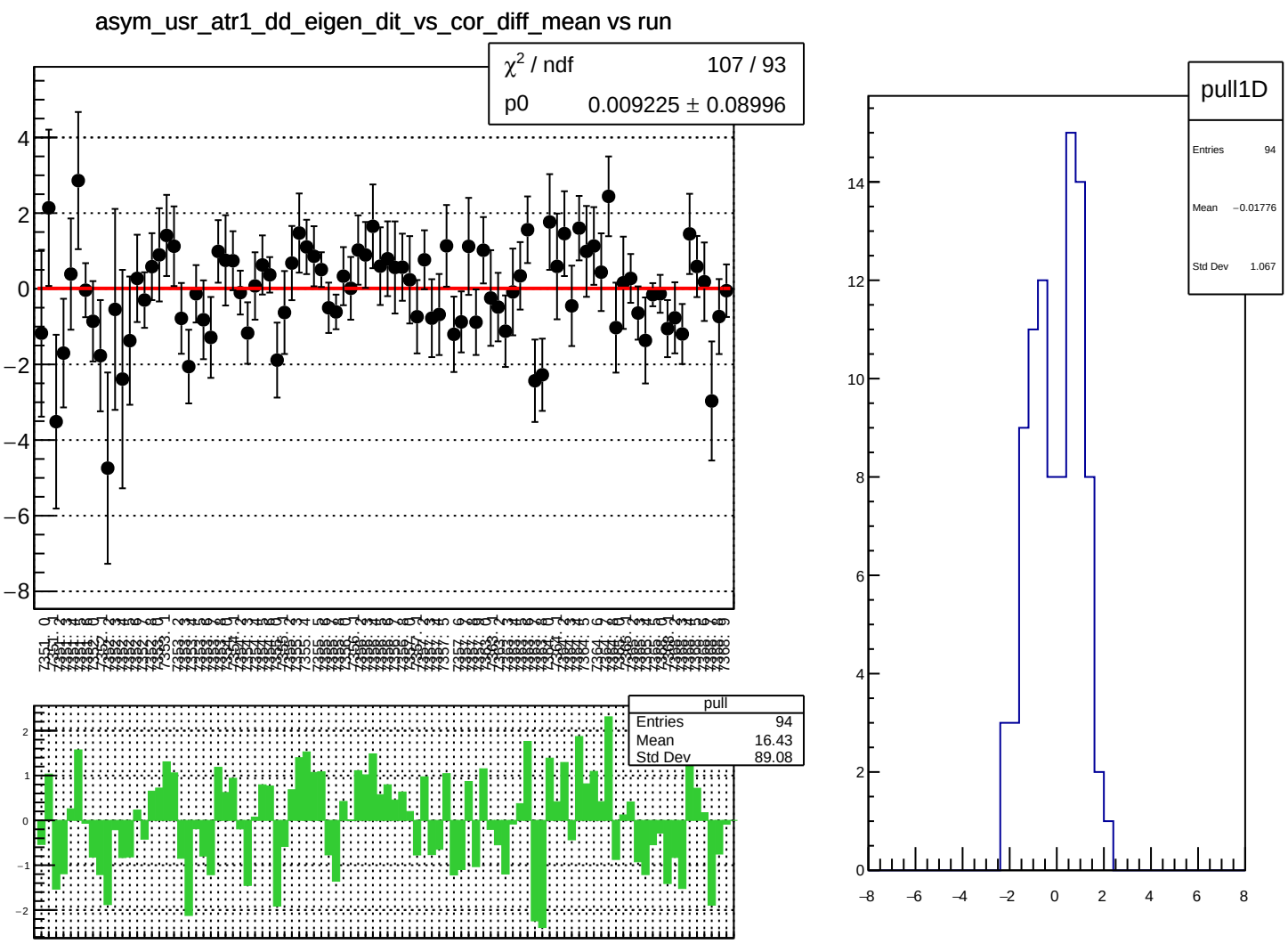

asym_usr_atr1_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.92e+05 / 93
p0 81.13 ± 0.06361
250
200
150
100
50

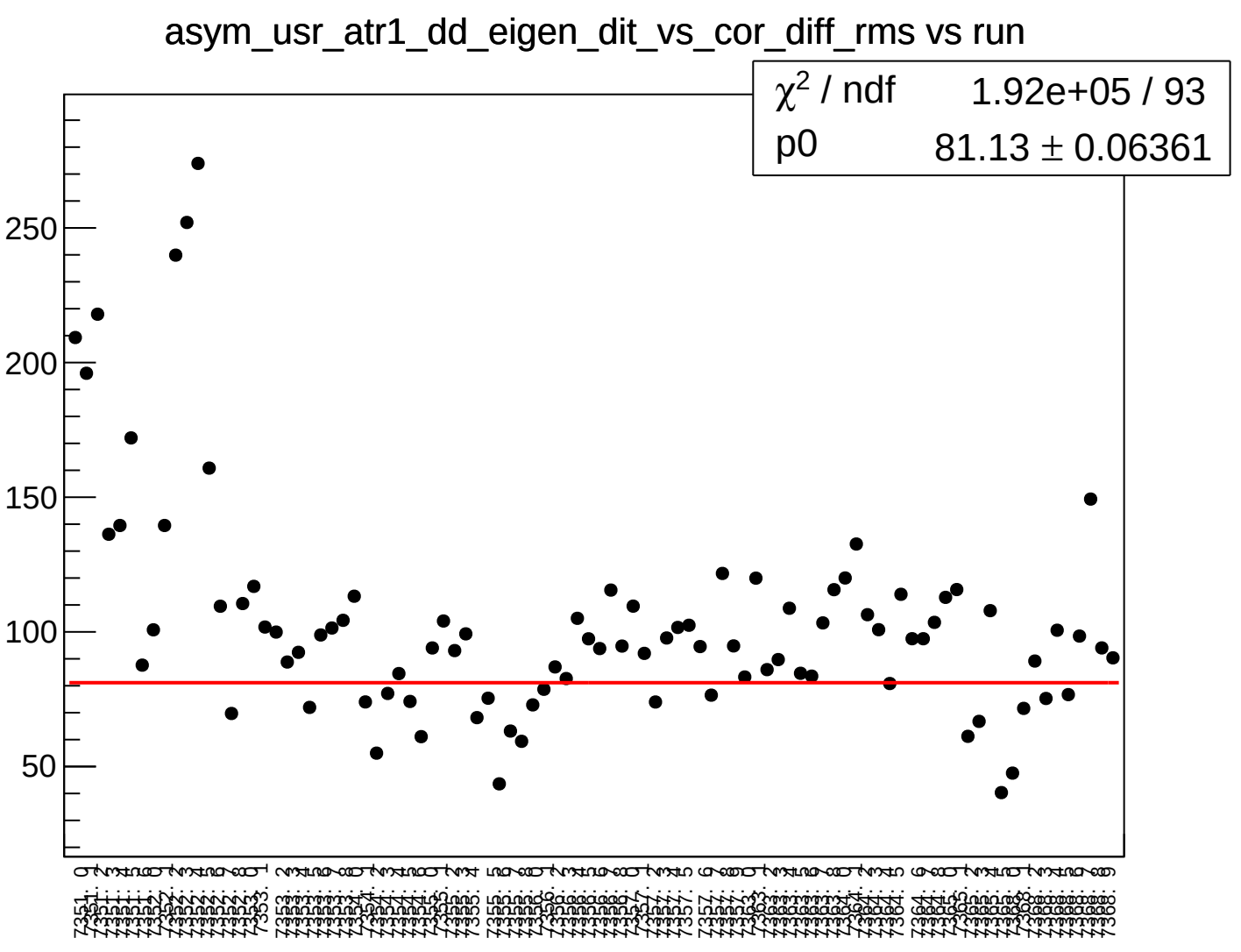

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107 / 93
p0 0.00922 ± 0.08996
pull
Entries 94
Mean 16.42
Std Dev 89.08
pull1D
Entries 94
Mean −0.01776
Std Dev 1.067

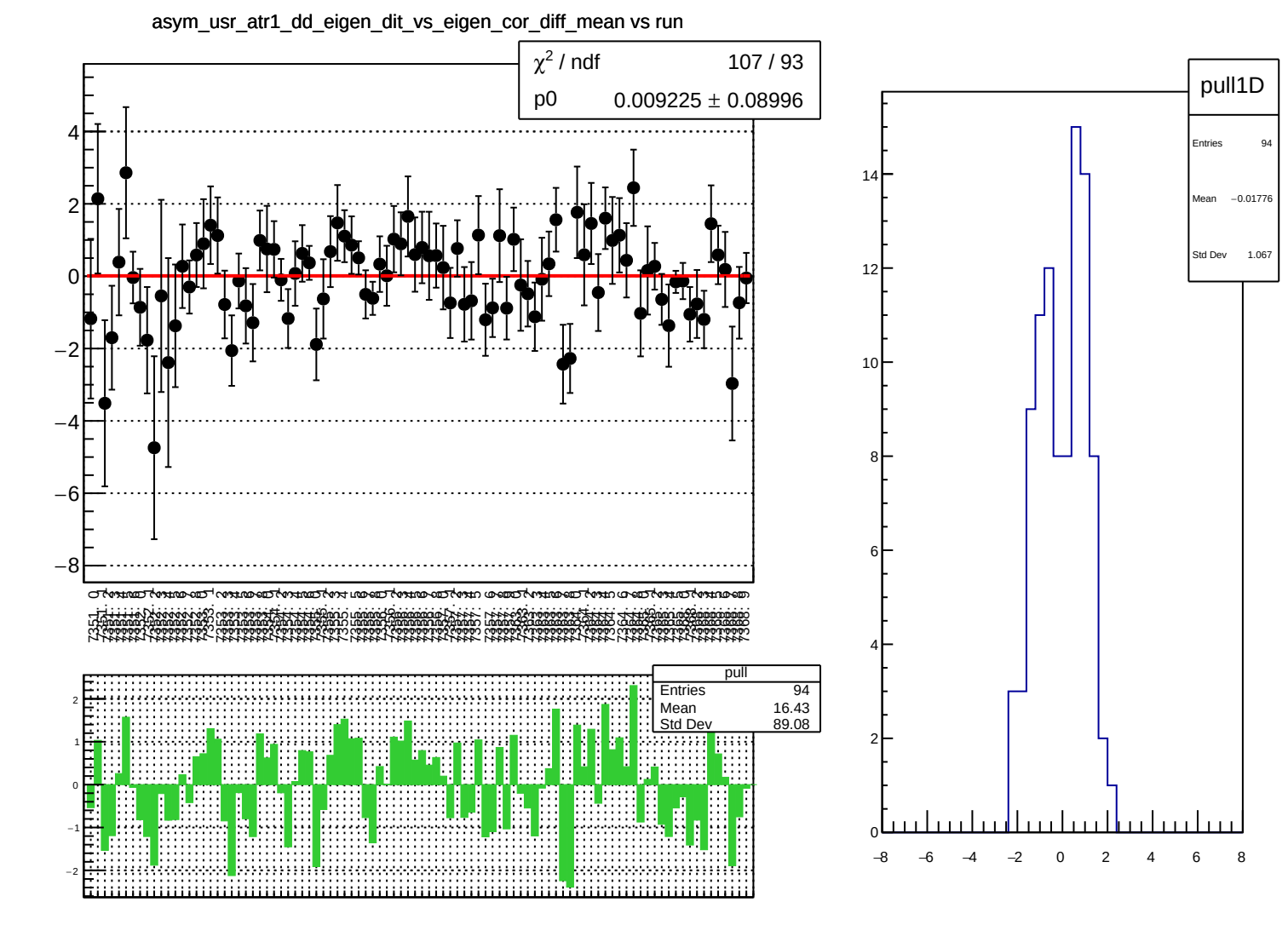

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.92e+05 / 93
p0 81.13 ± 0.06361
250
200
150
100
50

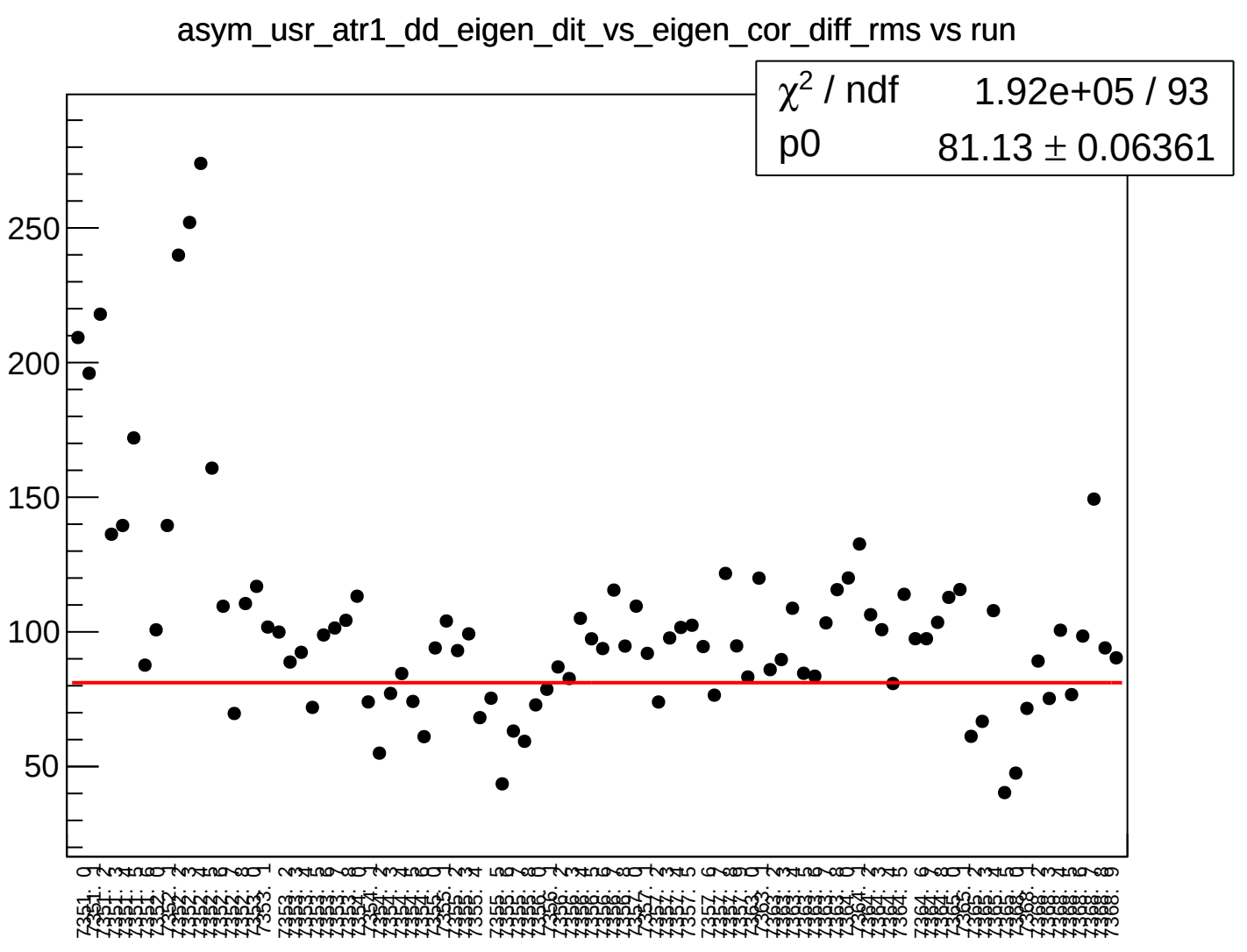

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 72.48 / 93
p0 2.846e−06 ± 3.691e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 94
Mean −99.29
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 94
Mean 0.02663
Std Dev 0.8777
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

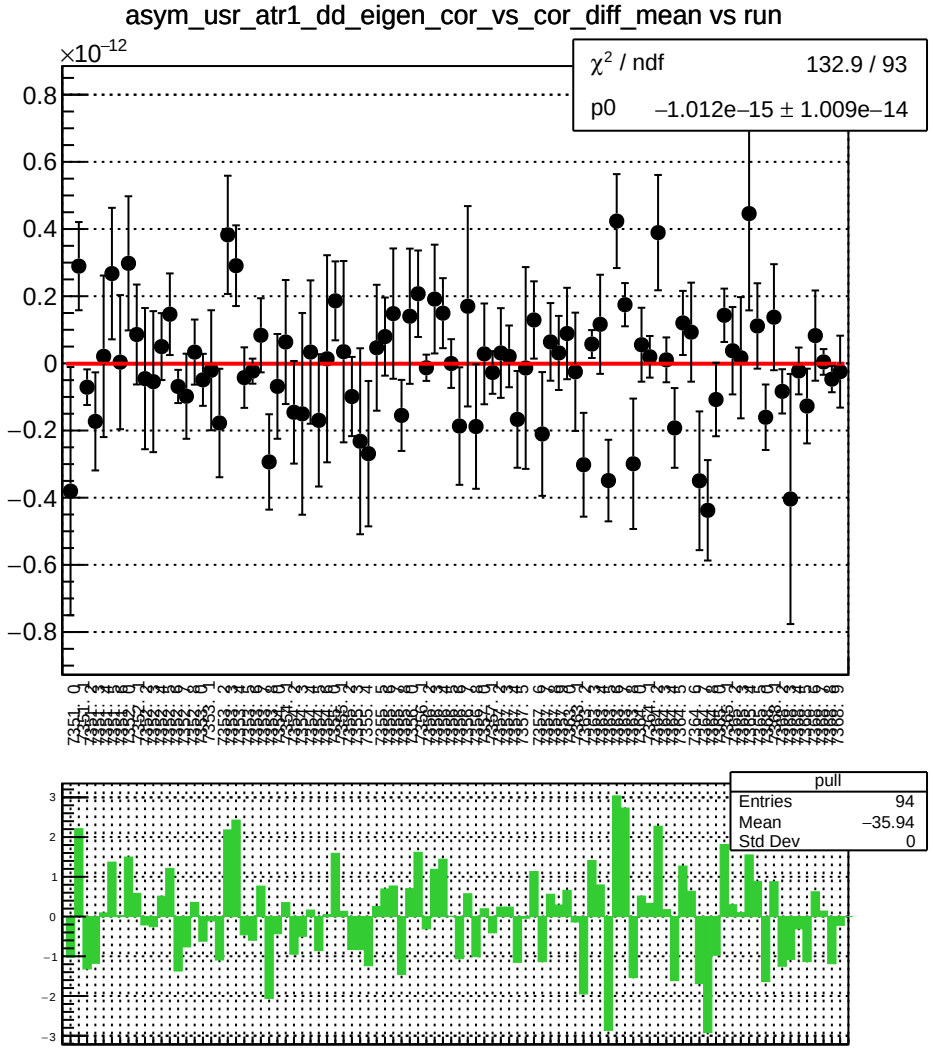

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.045e+04 / 93
p0 0.00347 ± 2.61e−06
0.005
0.0045
0.004
0.0035
0.003
0.0025

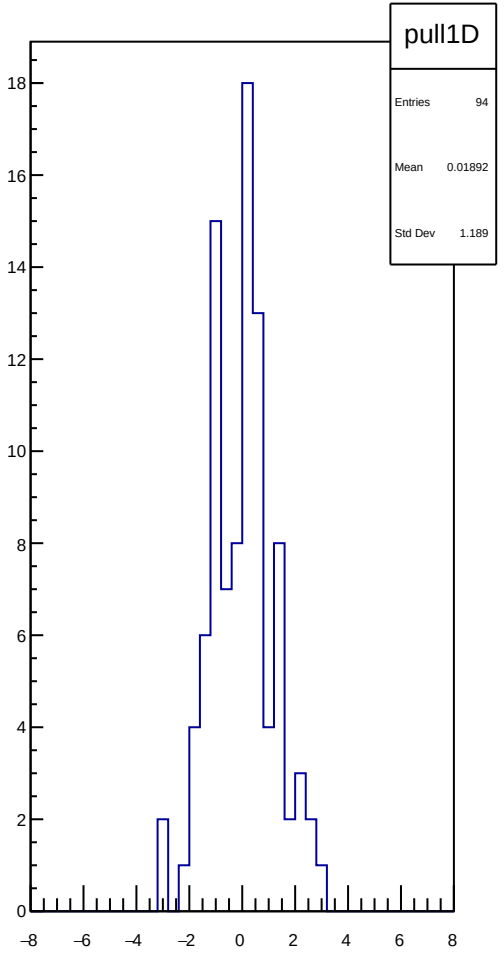

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 107 / 93
p0 0.009225 ± 0.08996
pull
Entries 94
Mean 16.43
Std Dev 89.08
pull1D
Entries 94
Mean −0.01776
Std Dev 1.067

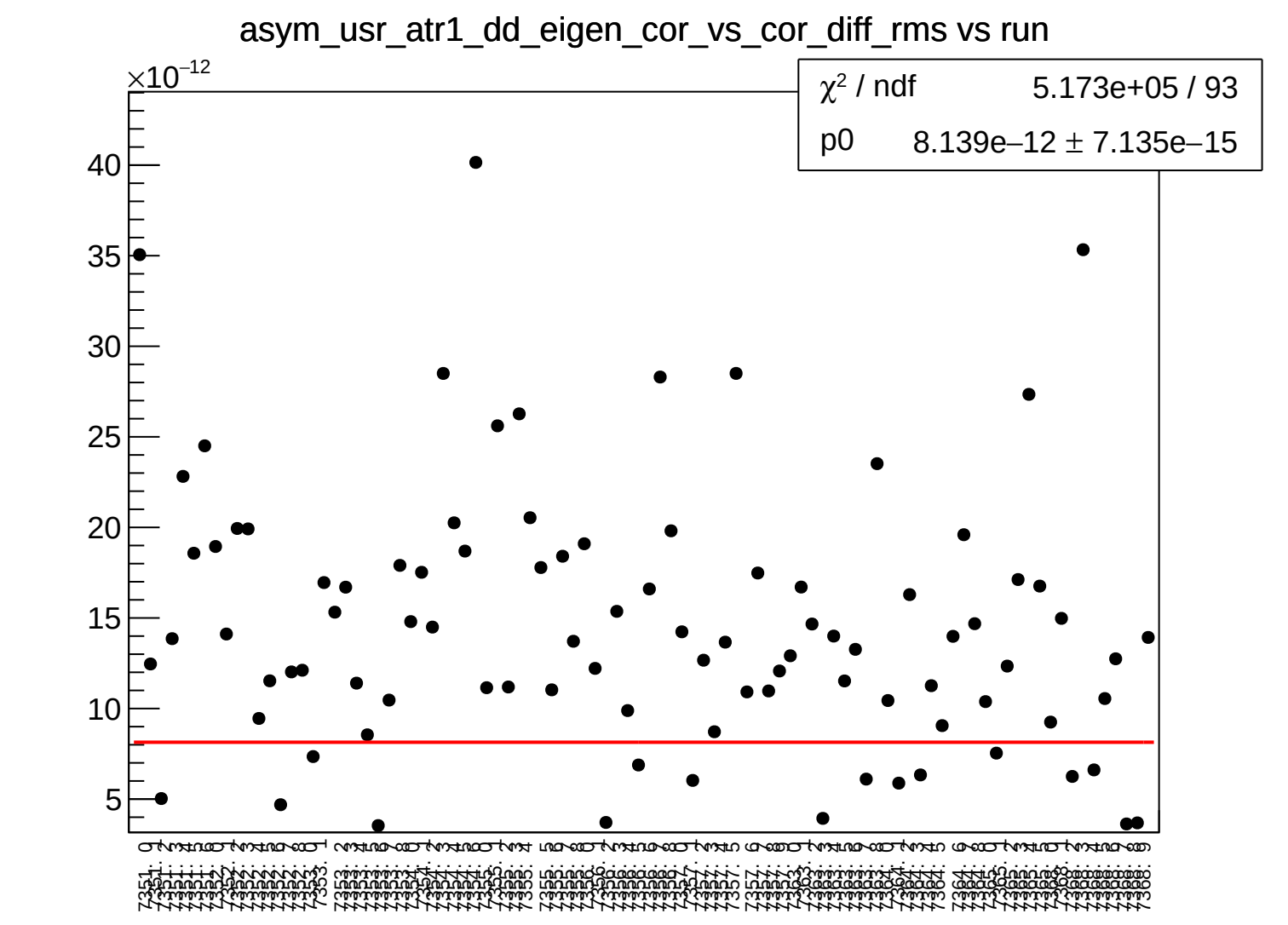

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.92e+05 / 93
p0 81.13 ± 0.06361
250
200
150
100
50

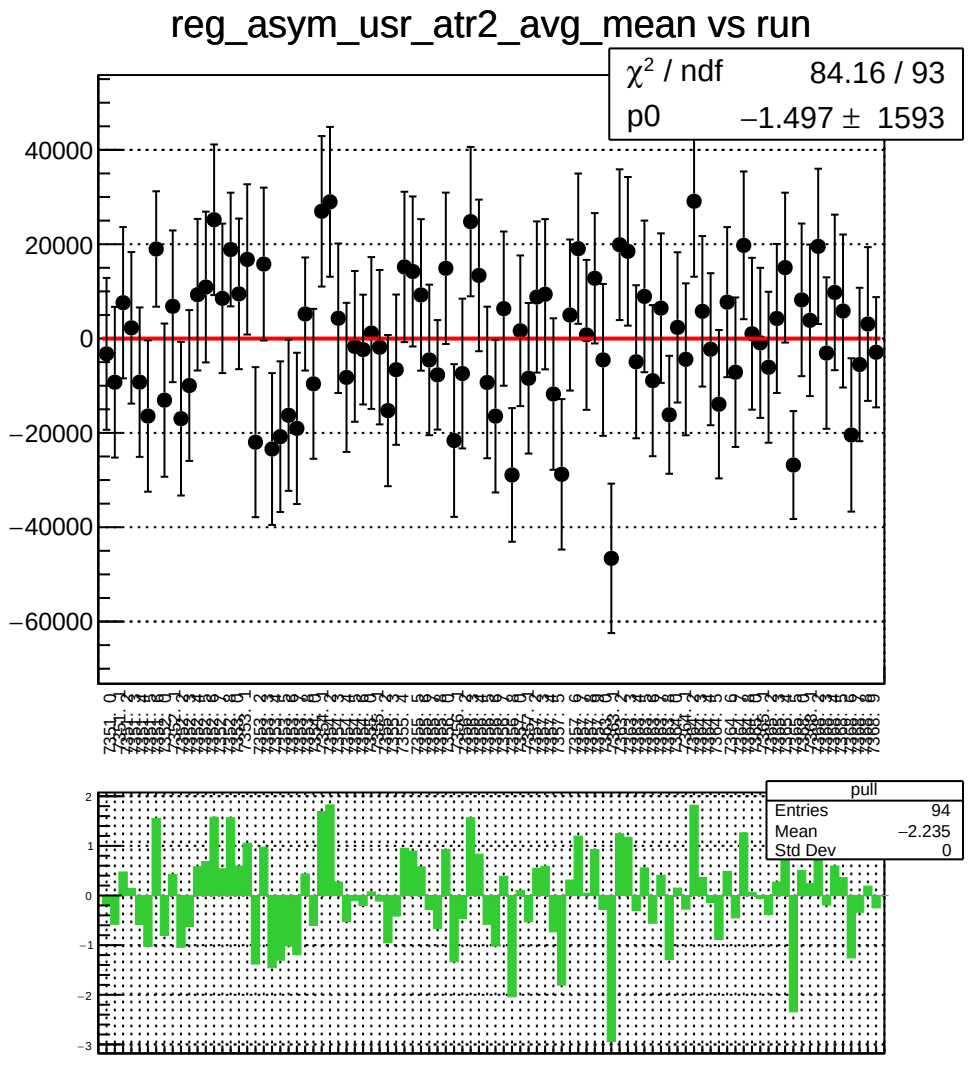

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107 / 93
p0 0.009225 ± 0.08996
pull
Entries 94
Mean 16.43
Std Dev 89.08
pull1D
Entries 94
Mean −0.01776
Std Dev 1.067

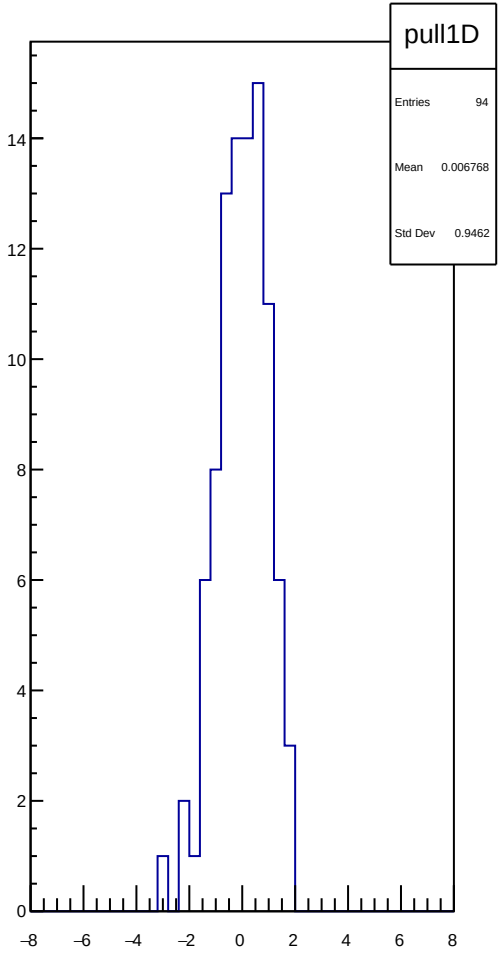

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.92e+05 / 93
p0 81.13 ± 0.06361
250
200
150
100
50

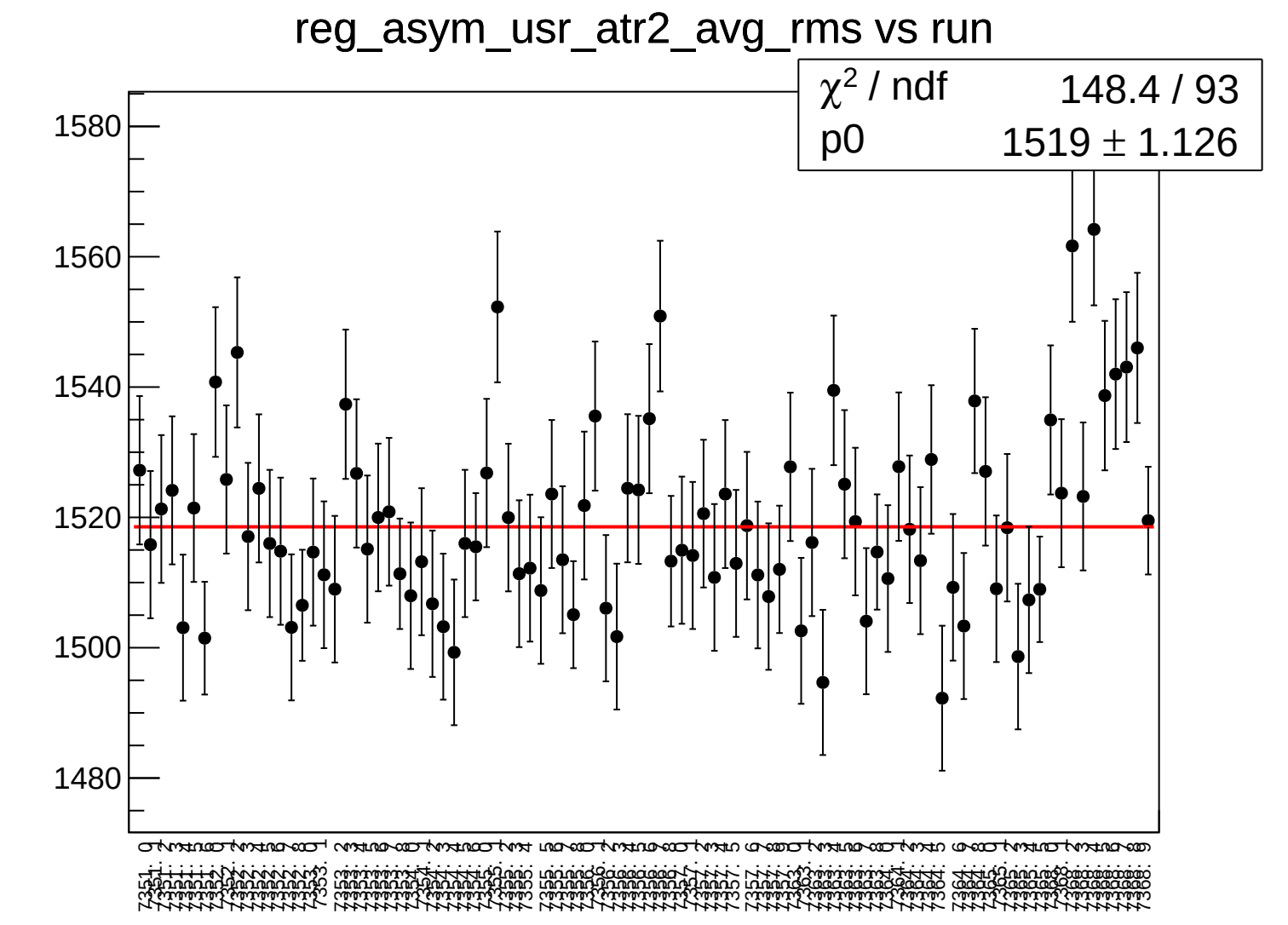

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 132.9 / 93
p0 −1.012e−15 ± 1.009e−14
pull
Entries 94
Mean −35.94
Std Dev 0

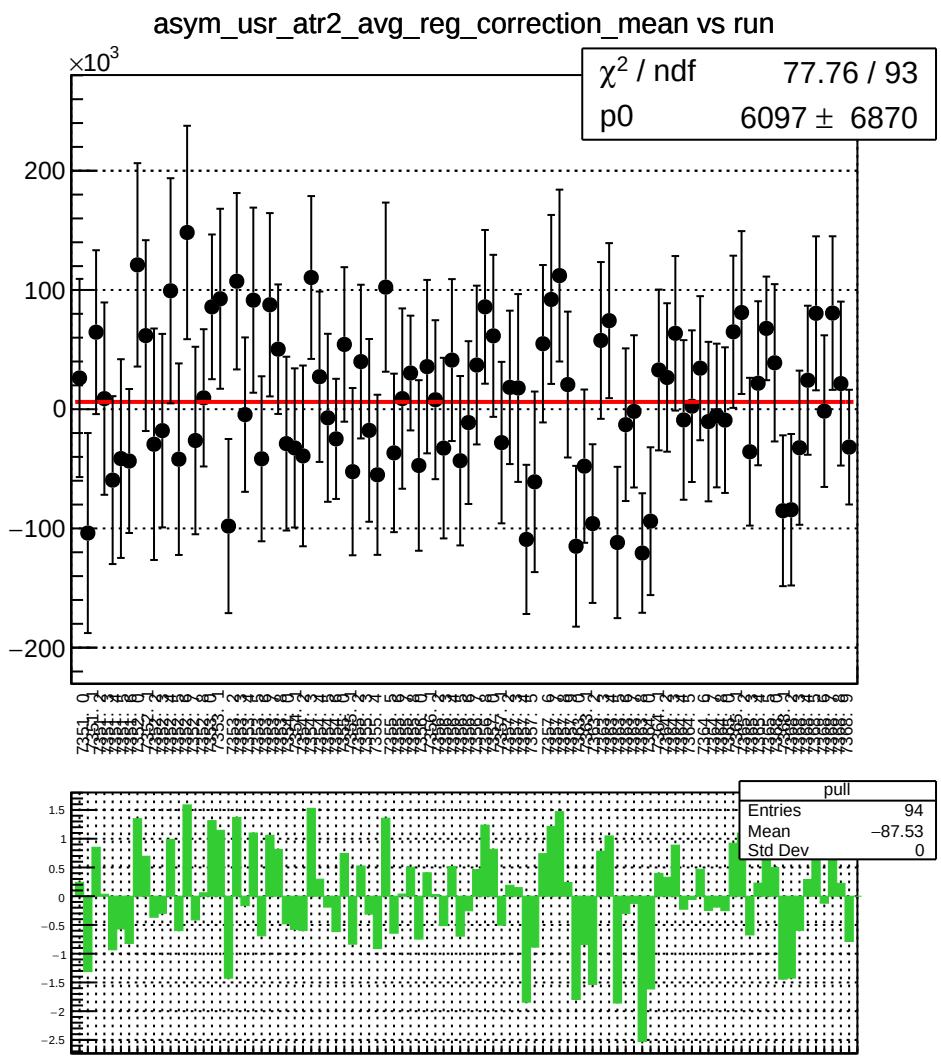

pull1D
Entries 94
Mean 0.01892
Std Dev 1.189

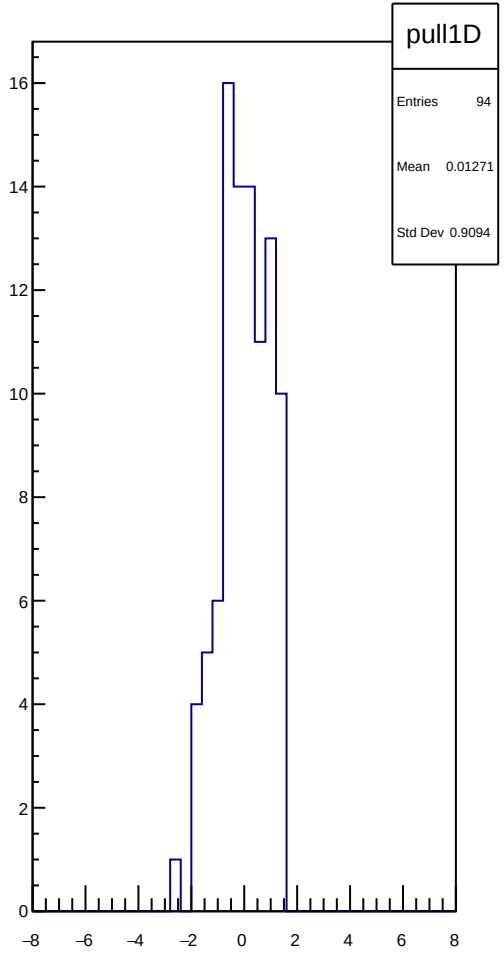

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.173e+05 / 93
p0 8.139e−12 ± 7.135e−15
40
35
30
25
20
15
10
5

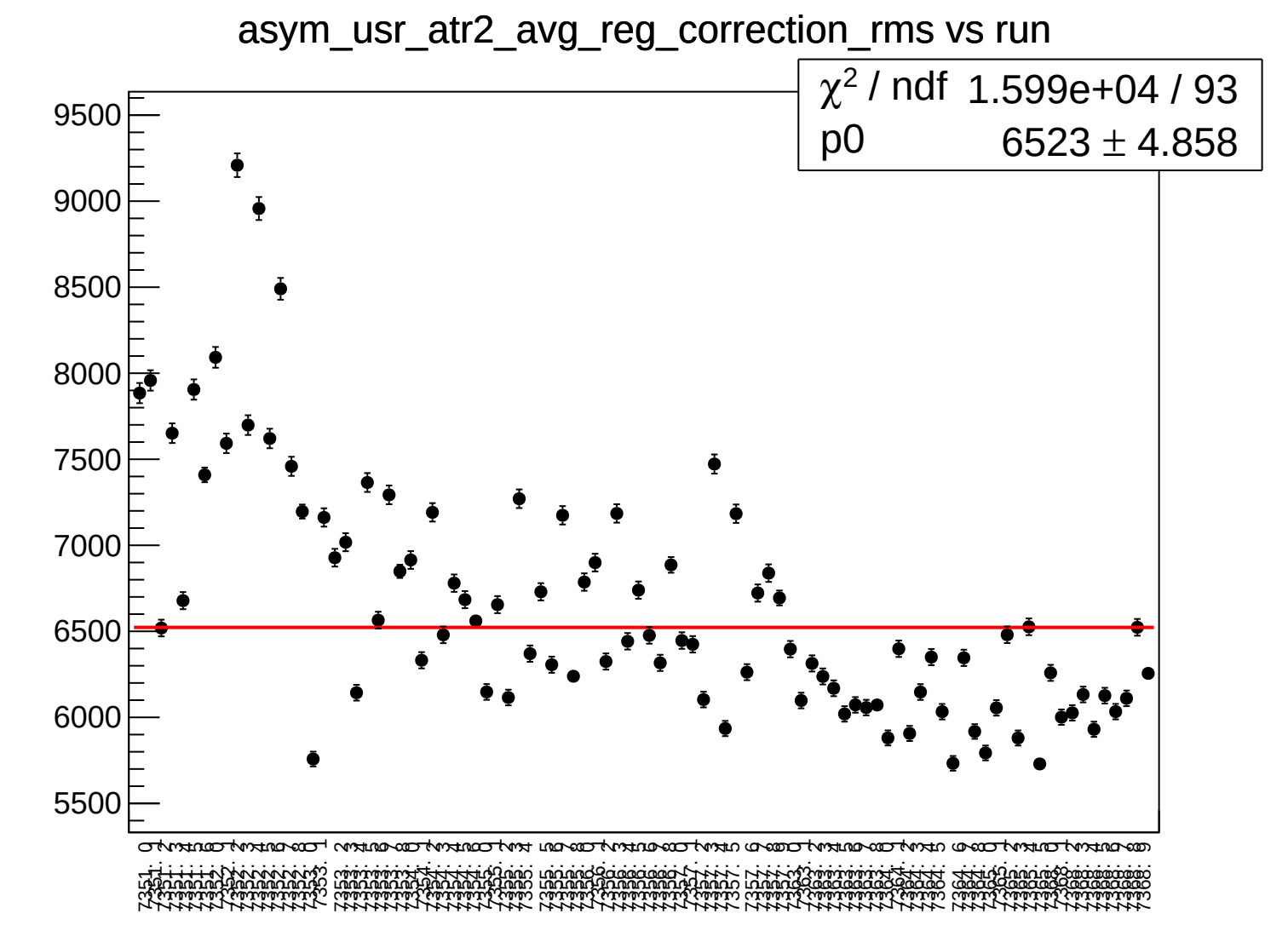

reg_asym_usr_atr2_avg_mean vs run
χ² / ndf 84.16 / 93
p0 −1.497 ± 1593
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −2.235
Std Dev 0
2
1
0
−1
−2
−3

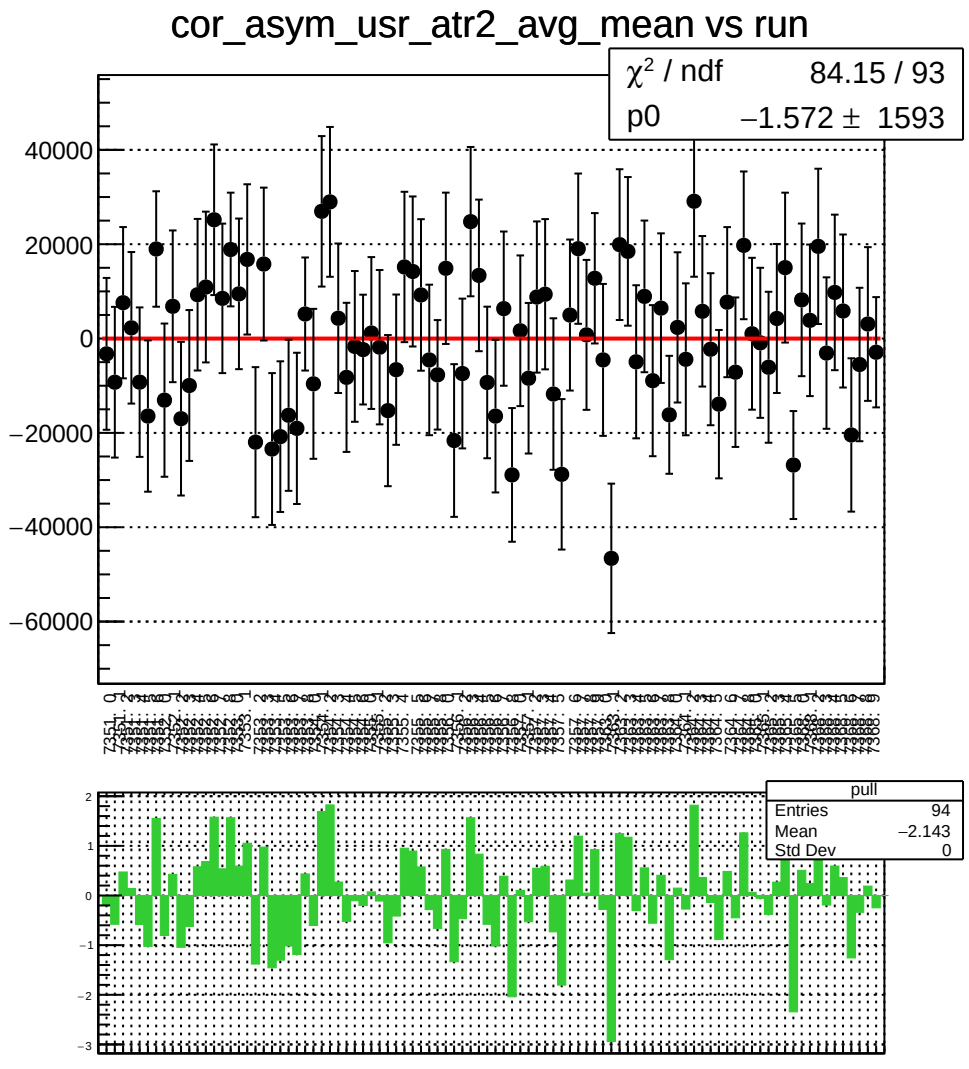

pull1D
Entries 94
Mean 0.006768
Std Dev 0.9462
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

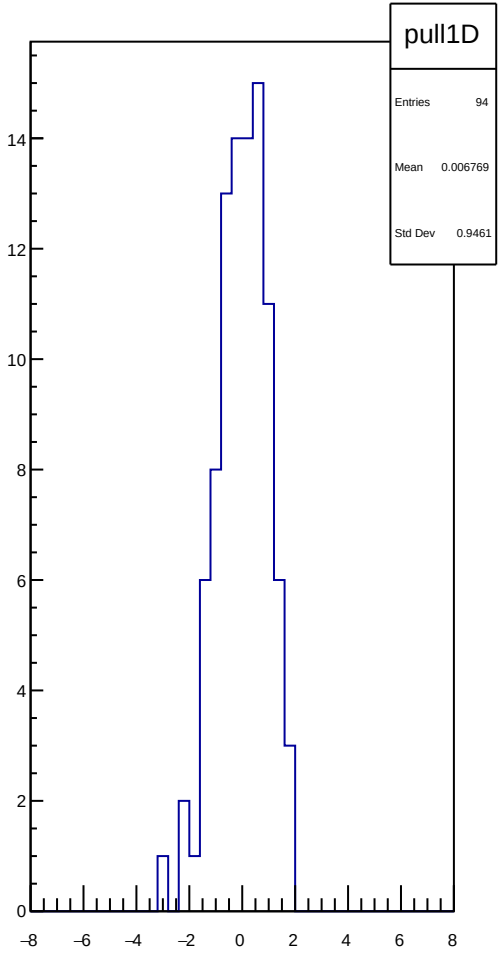

reg_asym_usr_atr2_avg_rms vs run
χ² / ndf 148.4 / 93
p0 1519 ± 1.126
1580
1560
1540
1520
1500
1480

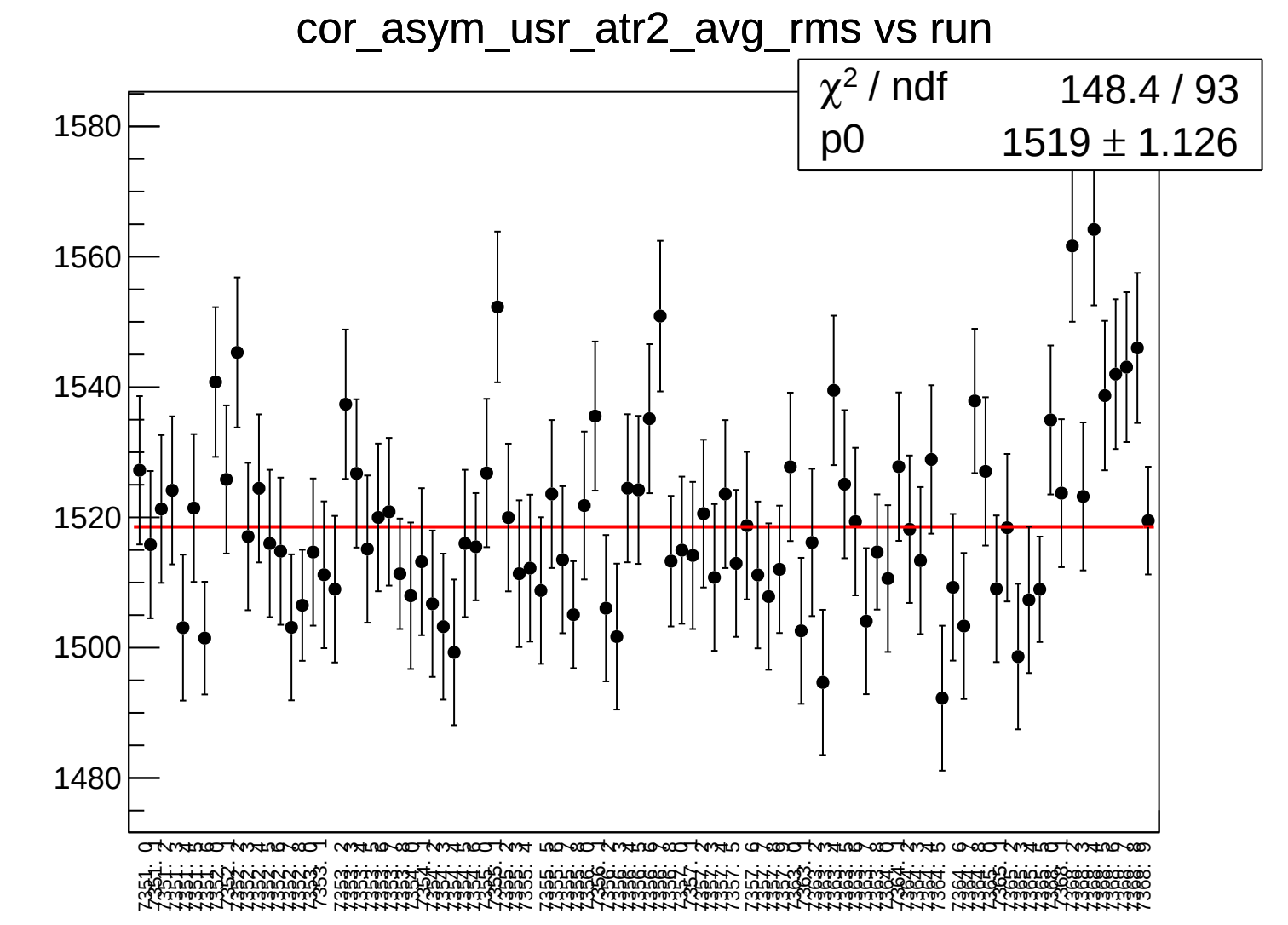

asym_usr_atr2_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 77.76 / 93
p0 6097 ± 6870
200
100
0
−100
−200
pull
Entries 94
Mean −87.53
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

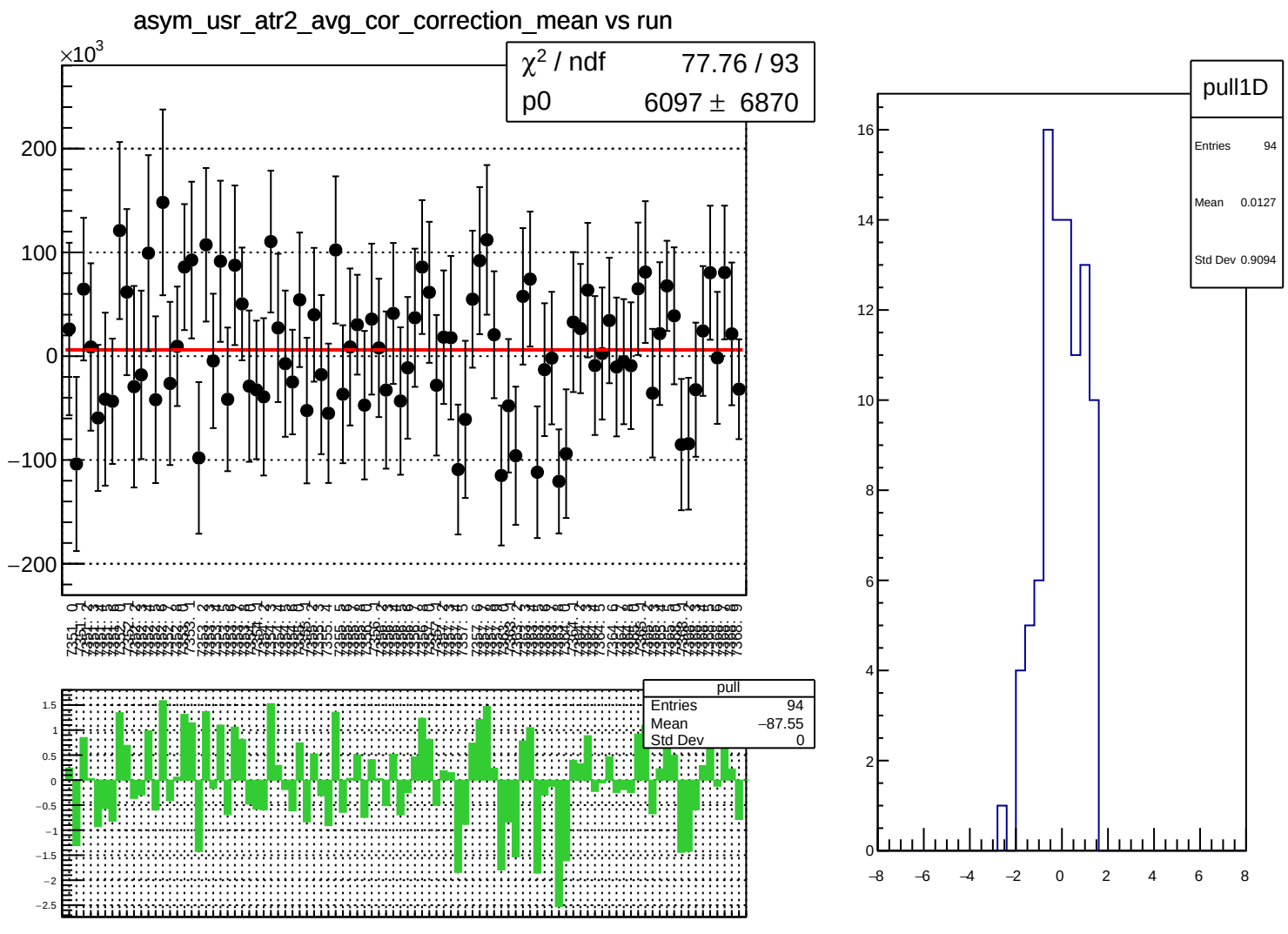

pull1D
Entries 94
Mean 0.01271
Std Dev 0.9094
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

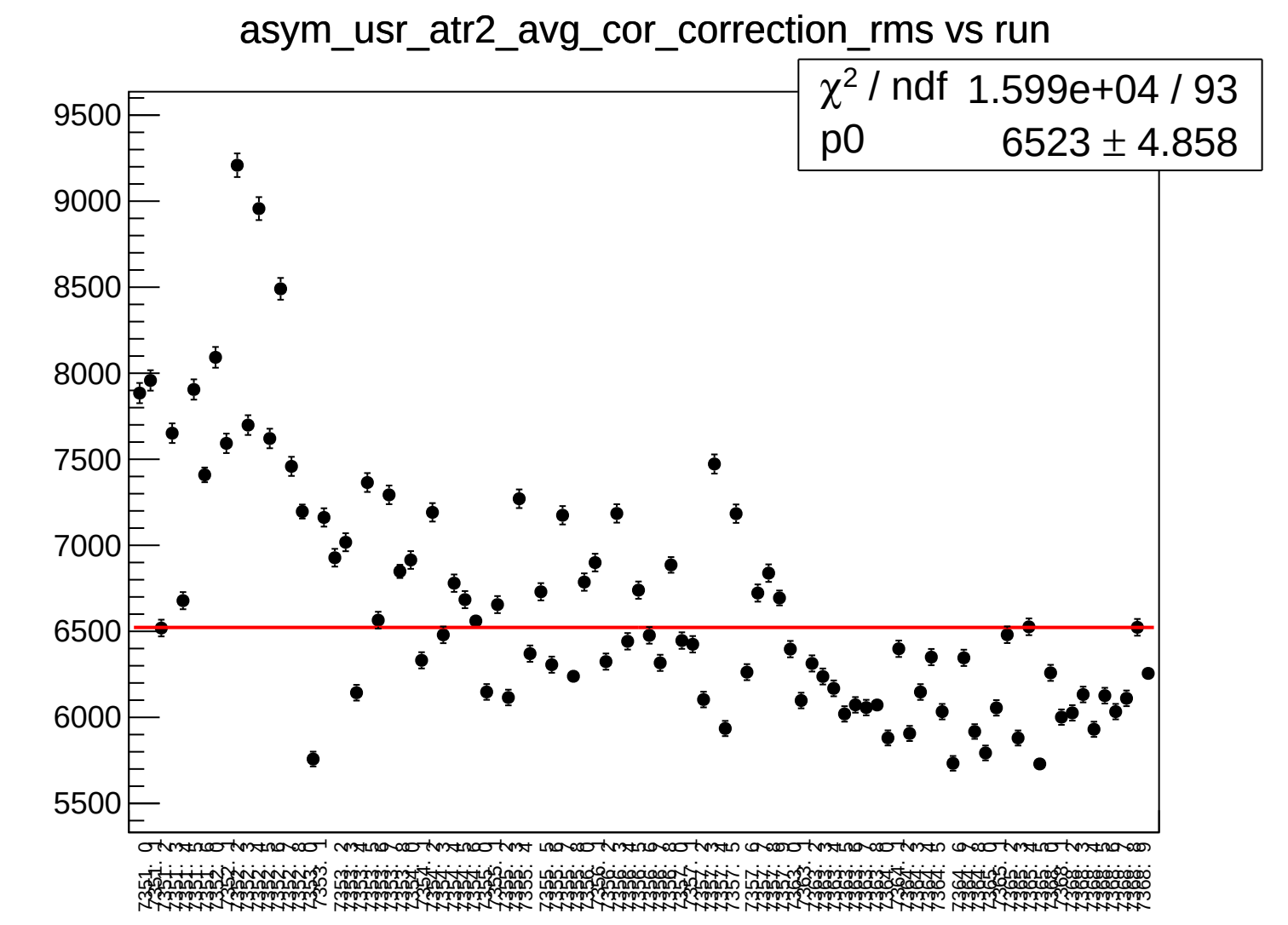

asym_usr_atr2_avg_reg_correction_rms vs run
χ² / ndf 1.599e+04 / 93
p0 6523 ± 4.858
9500
9000
8500
8000
7500
7000
6500
6000
5500

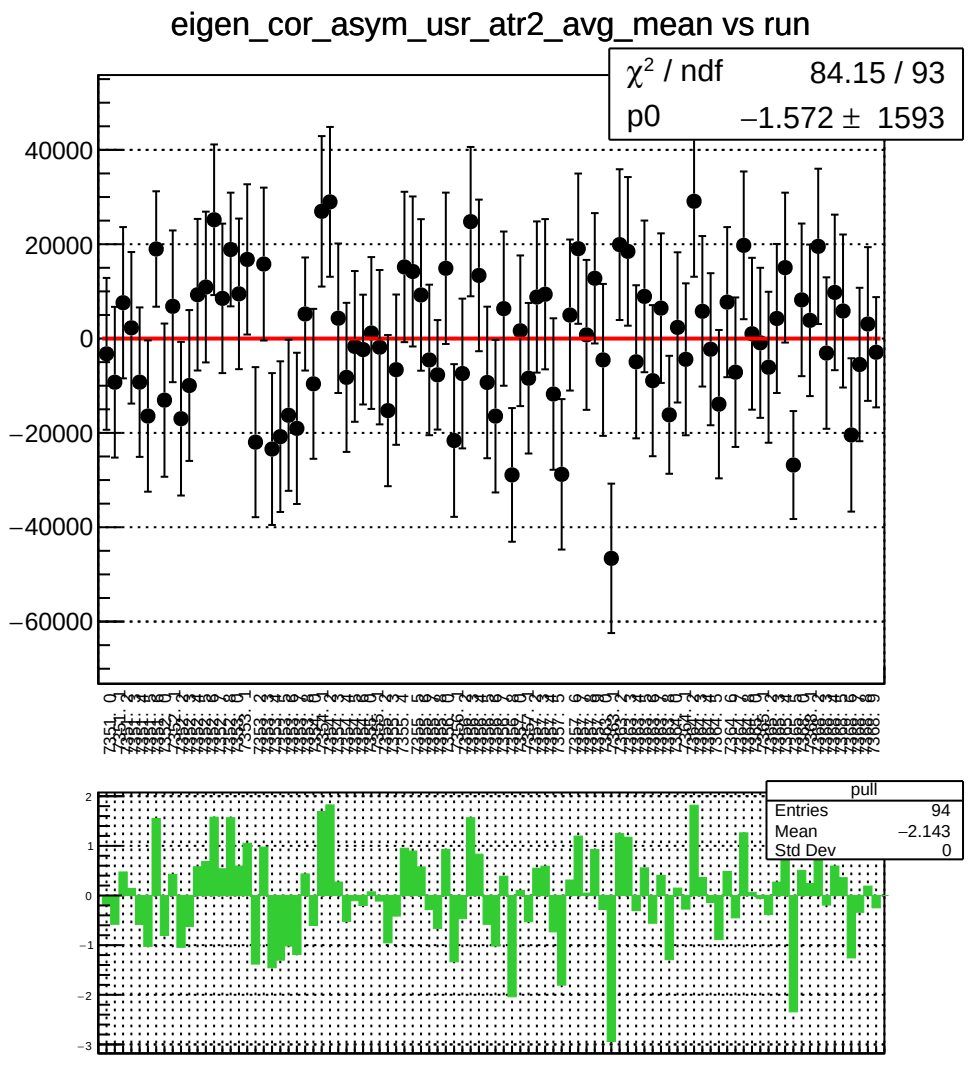

cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 84.15 / 93
p0 −1.572 ± 1593
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −2.143
Std Dev 0
2
1
0
−1
−2
−3

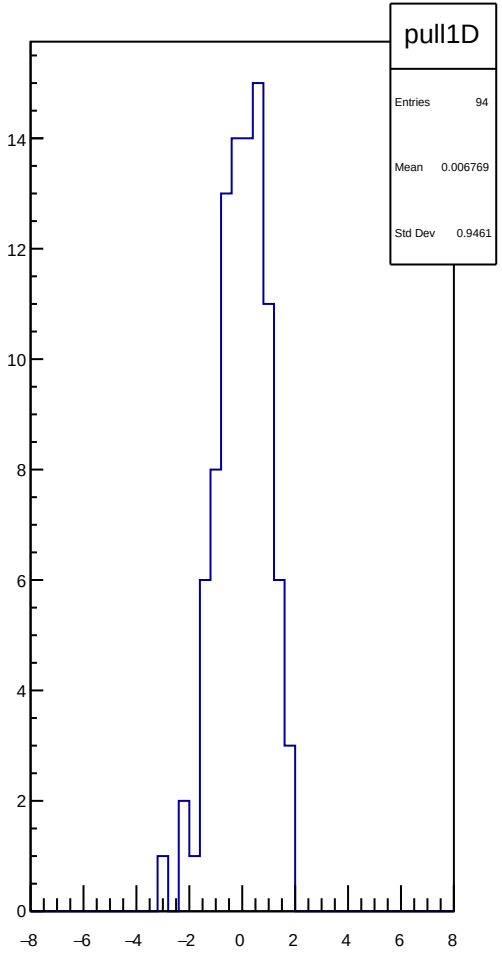

pull1D
Entries 94
Mean 0.006769
Std Dev 0.9461
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

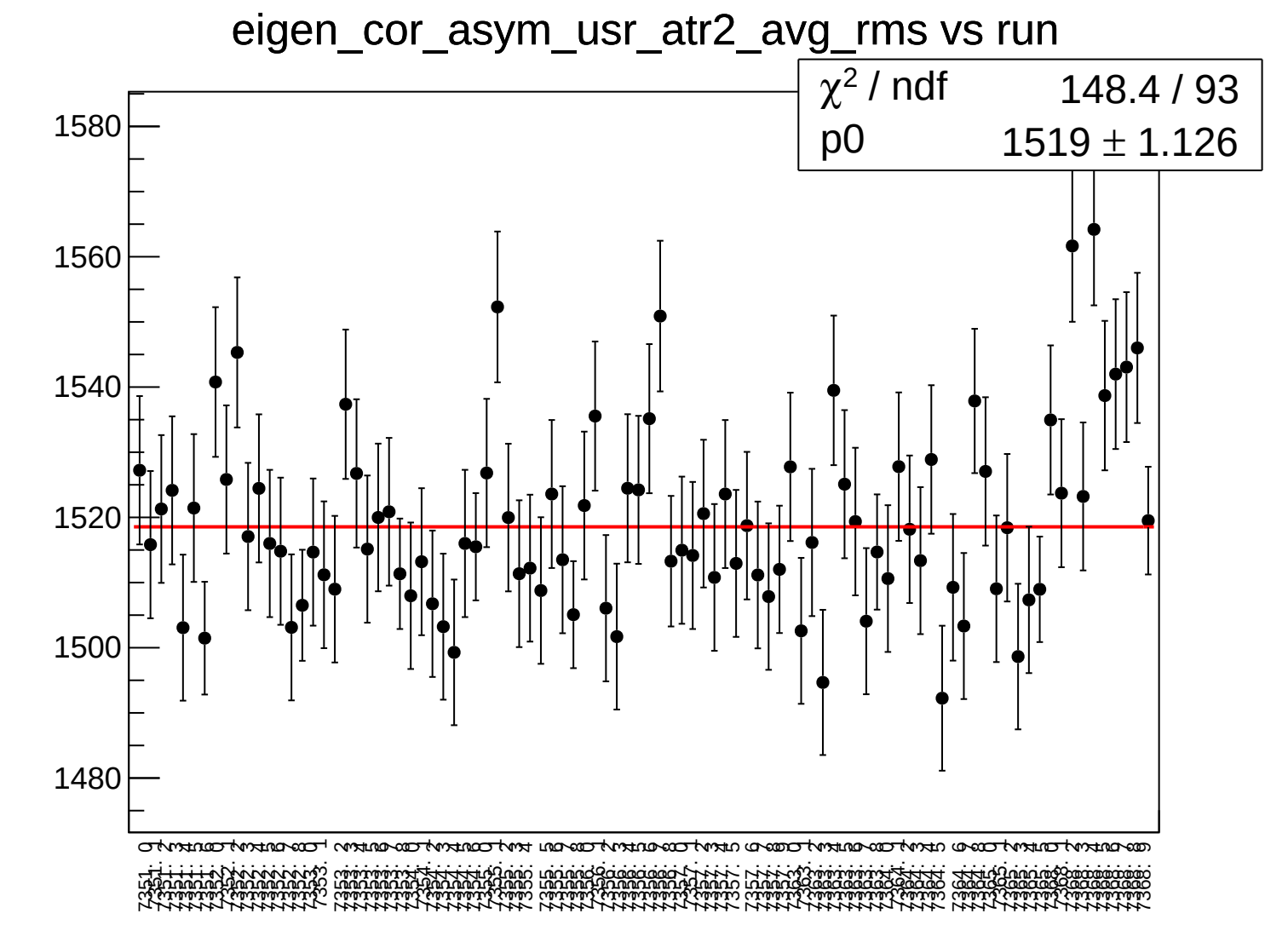

cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 148.4 / 93
p0 1519 ± 1.126
1580
1560
1540
1520
1500
1480

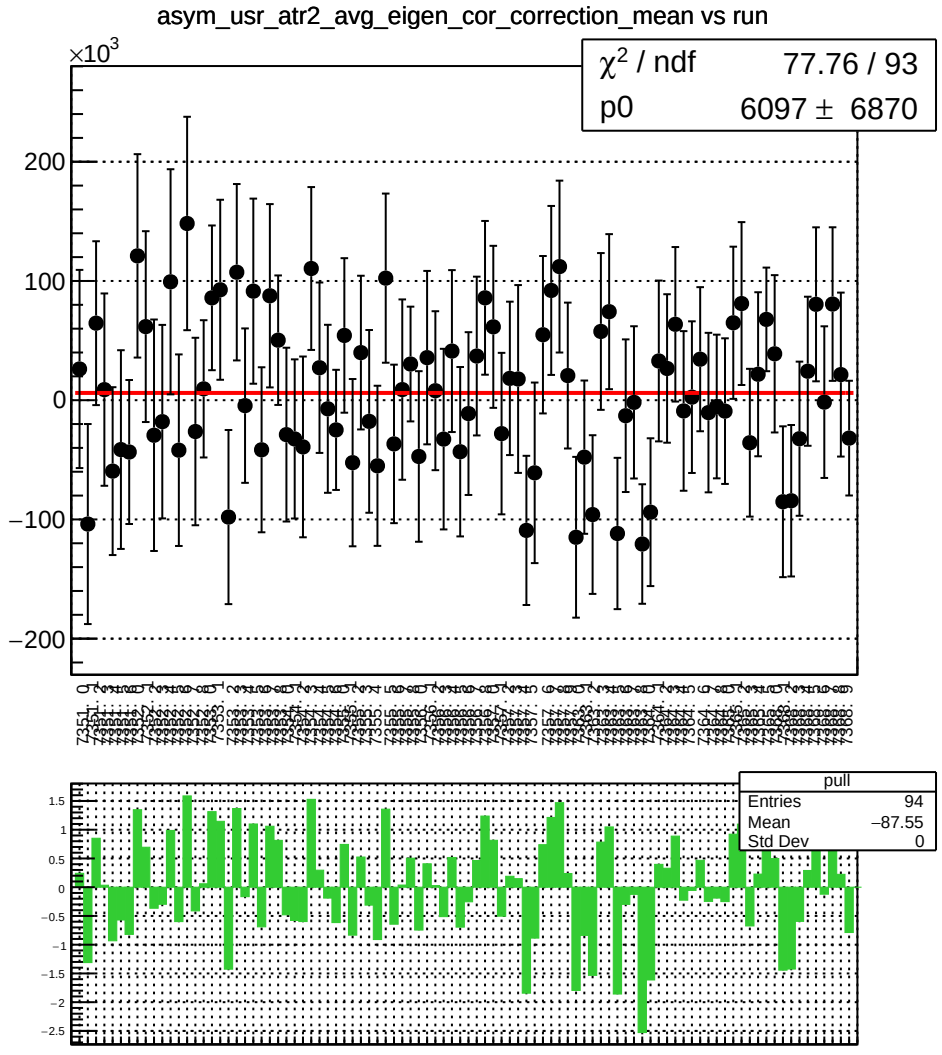

asym_usr_atr2_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 77.76 / 93
p0 6097 ± 6870
200
100
0
−100
−200
pull
Entries 94
Mean −87.55
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 94
Mean 0.0127
Std Dev 0.9094
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

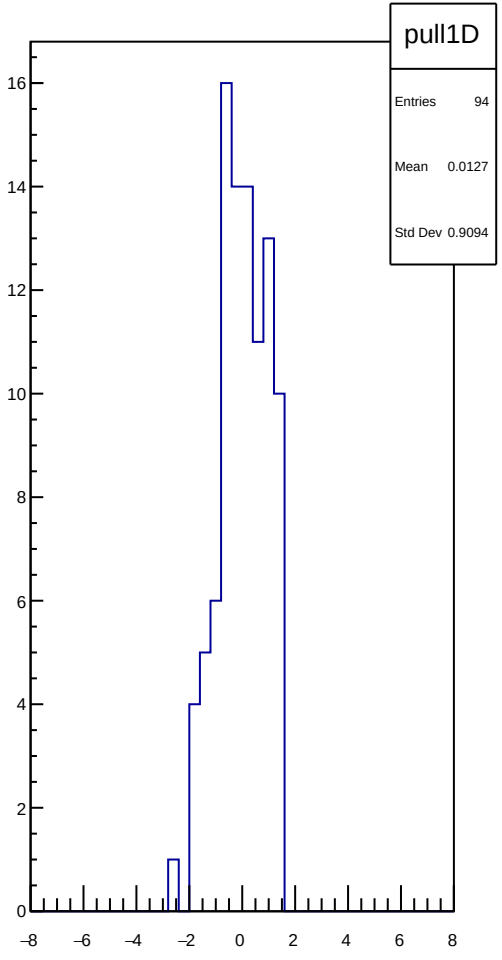

asym_usr_atr2_avg_cor_correction_rms vs run
χ² / ndf 1.599e+04 / 93
p0 6523 ± 4.858
9500
9000
8500
8000
7500
7000
6500
6000
5500

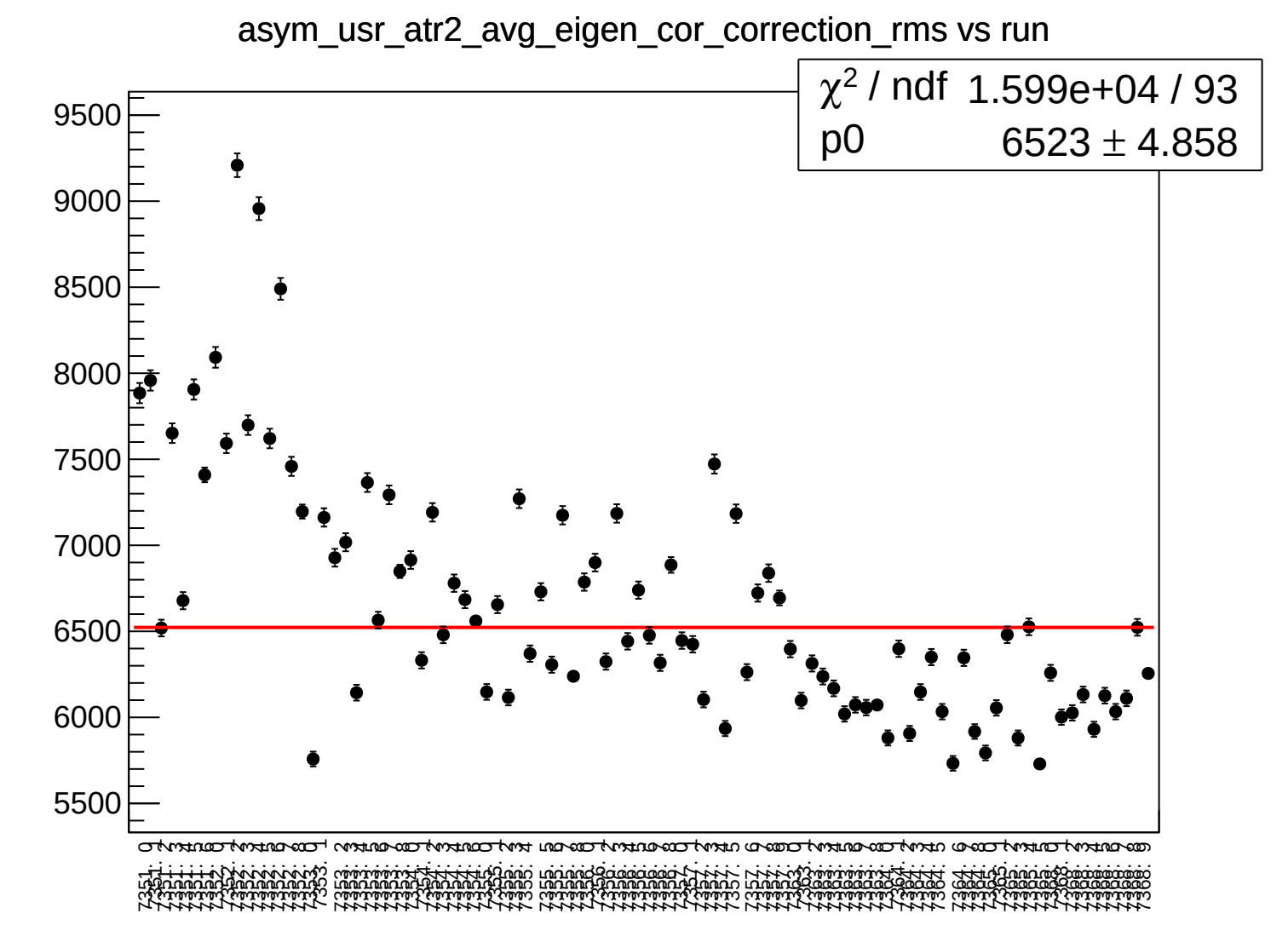

eigen_cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 84.15 / 93
p0 −1.572 ± 1593
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −2.143
Std Dev 0
2
1
0
−1
−2
−3

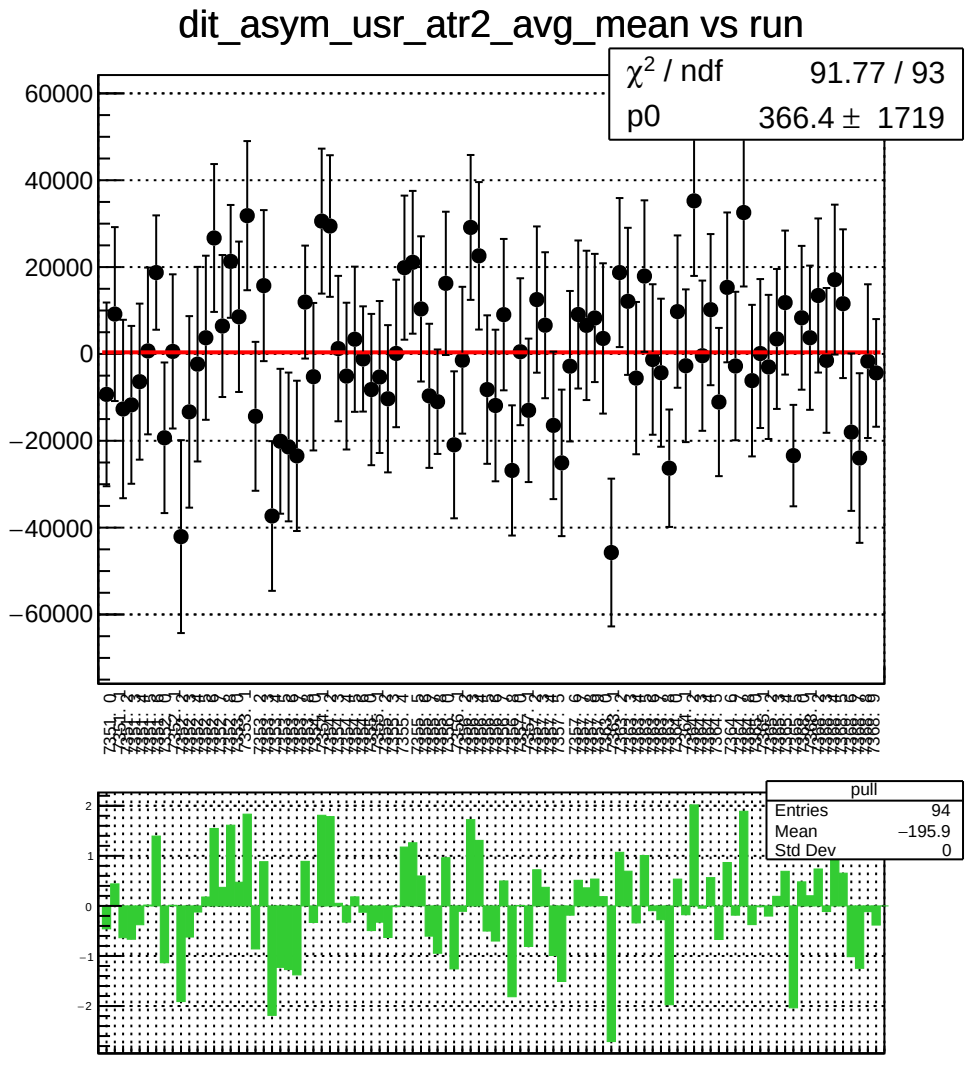

pull1D
Entries 94
Mean 0.006769
Std Dev 0.9461
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

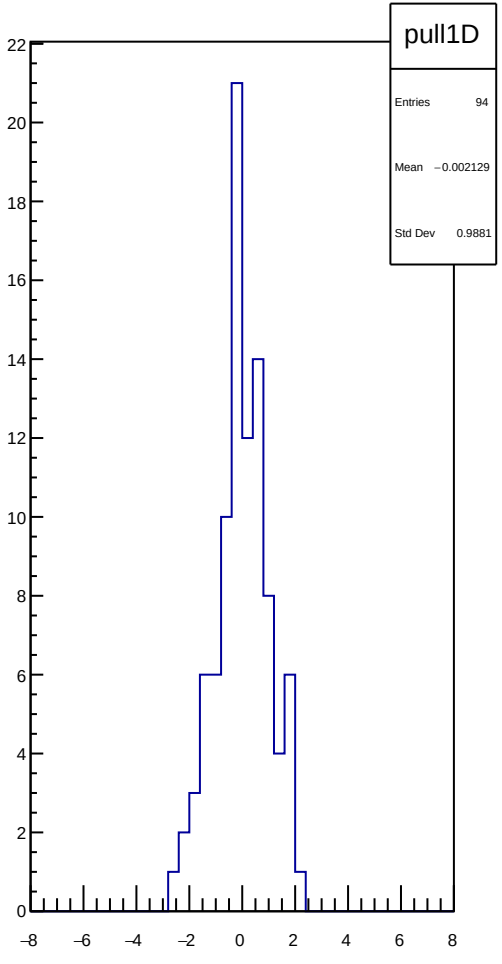

eigen_cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 148.4 / 93
p0 1519 ± 1.126
1580
1560
1540
1520
1500
1480

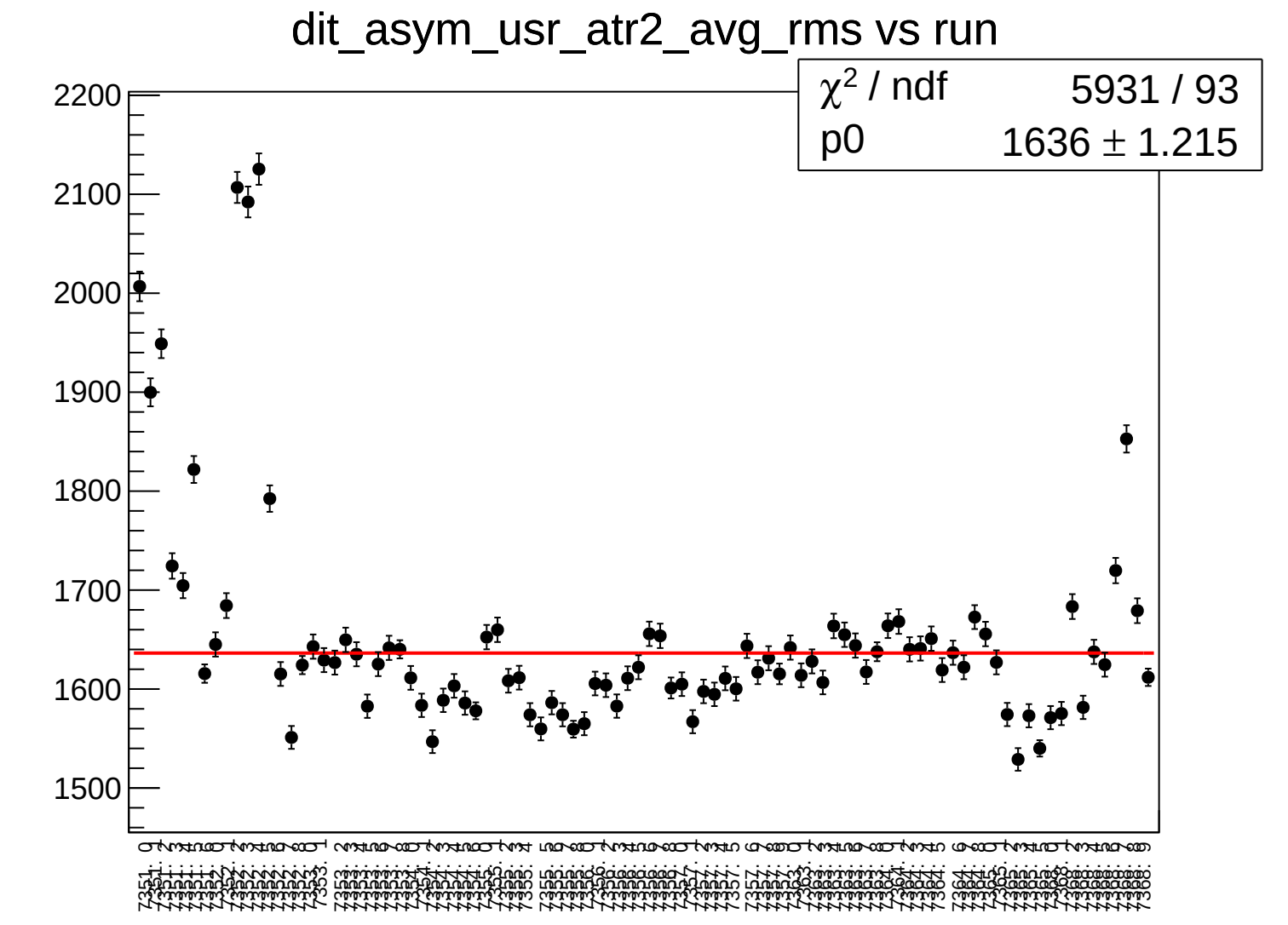

asym_usr_atr2_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 77.76 / 93
p0 6097 ± 6870
200
100
0
−100
−200
pull
Entries 94
Mean −87.55
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

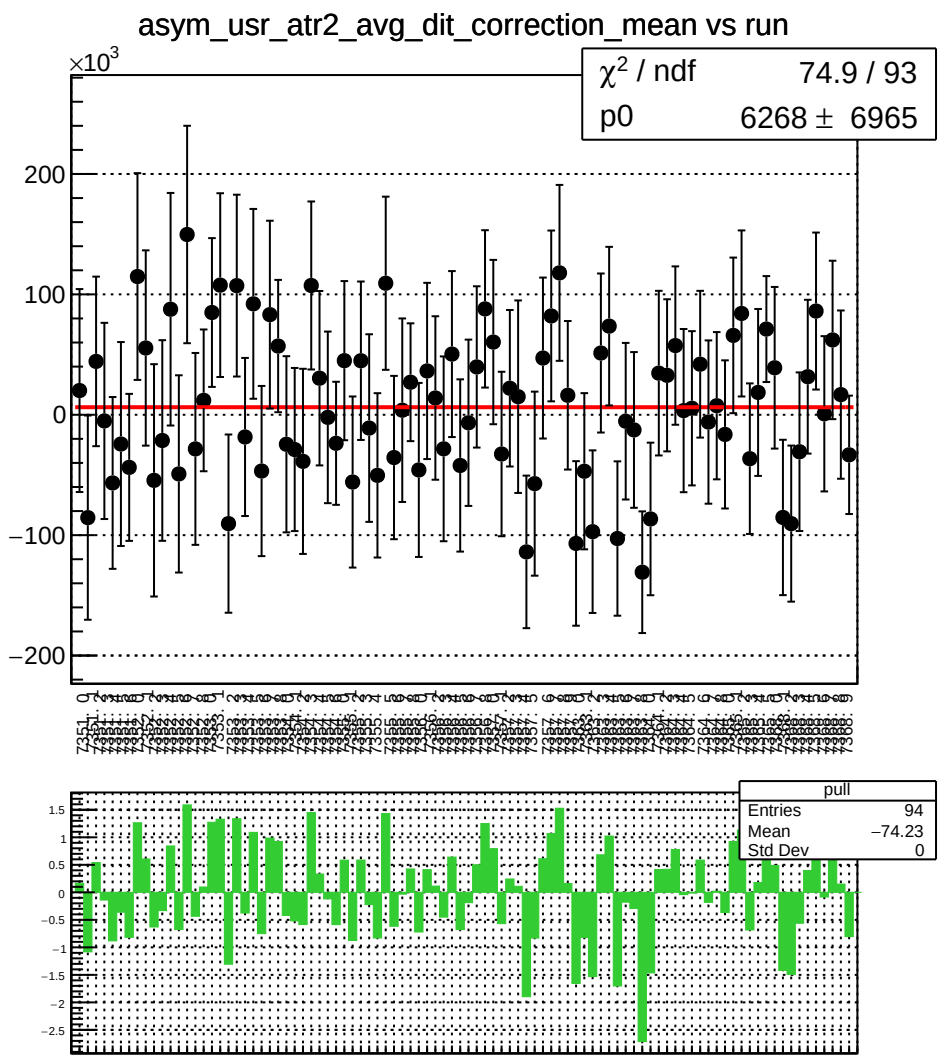

pull1D
Entries 94
Mean 0.0127
Std Dev 0.9094
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

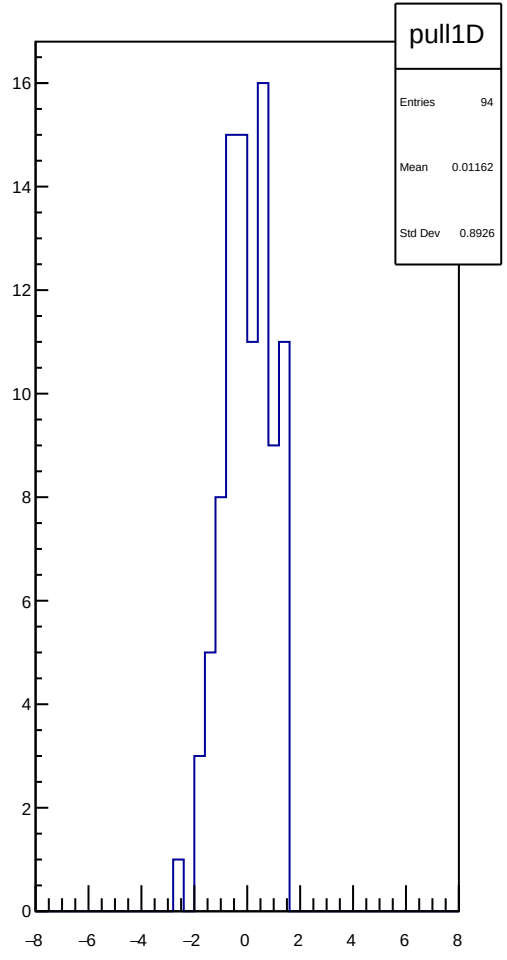

asym_usr_atr2_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.599e+04 / 93
p0 6523 ± 4.858
9500
9000
8500
8000
7500
7000
6500
6000
5500

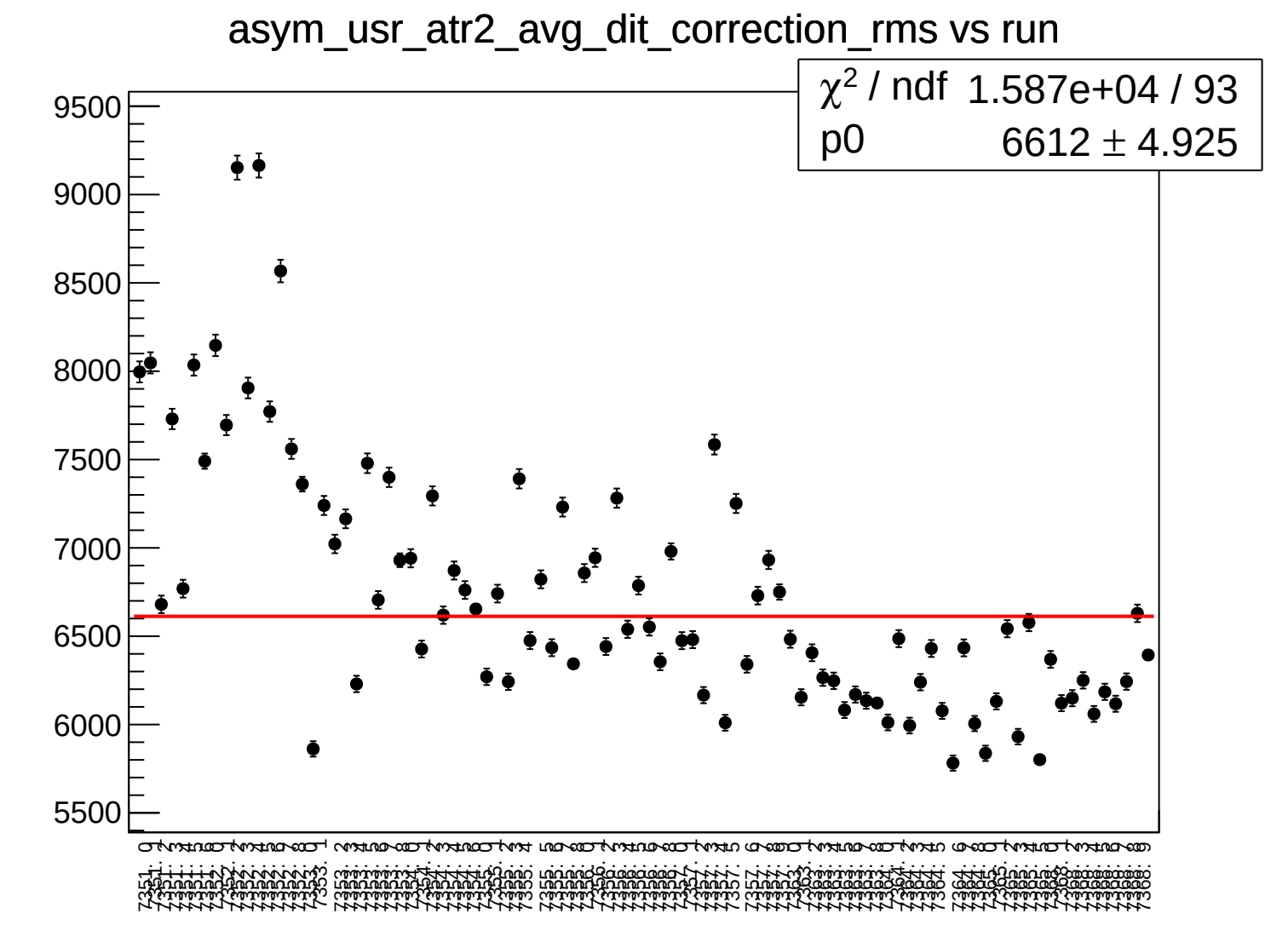

dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 91.77 / 93
p0 366.4 ± 1719
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −195.9
Std Dev 0
2
1
0
−1
−2

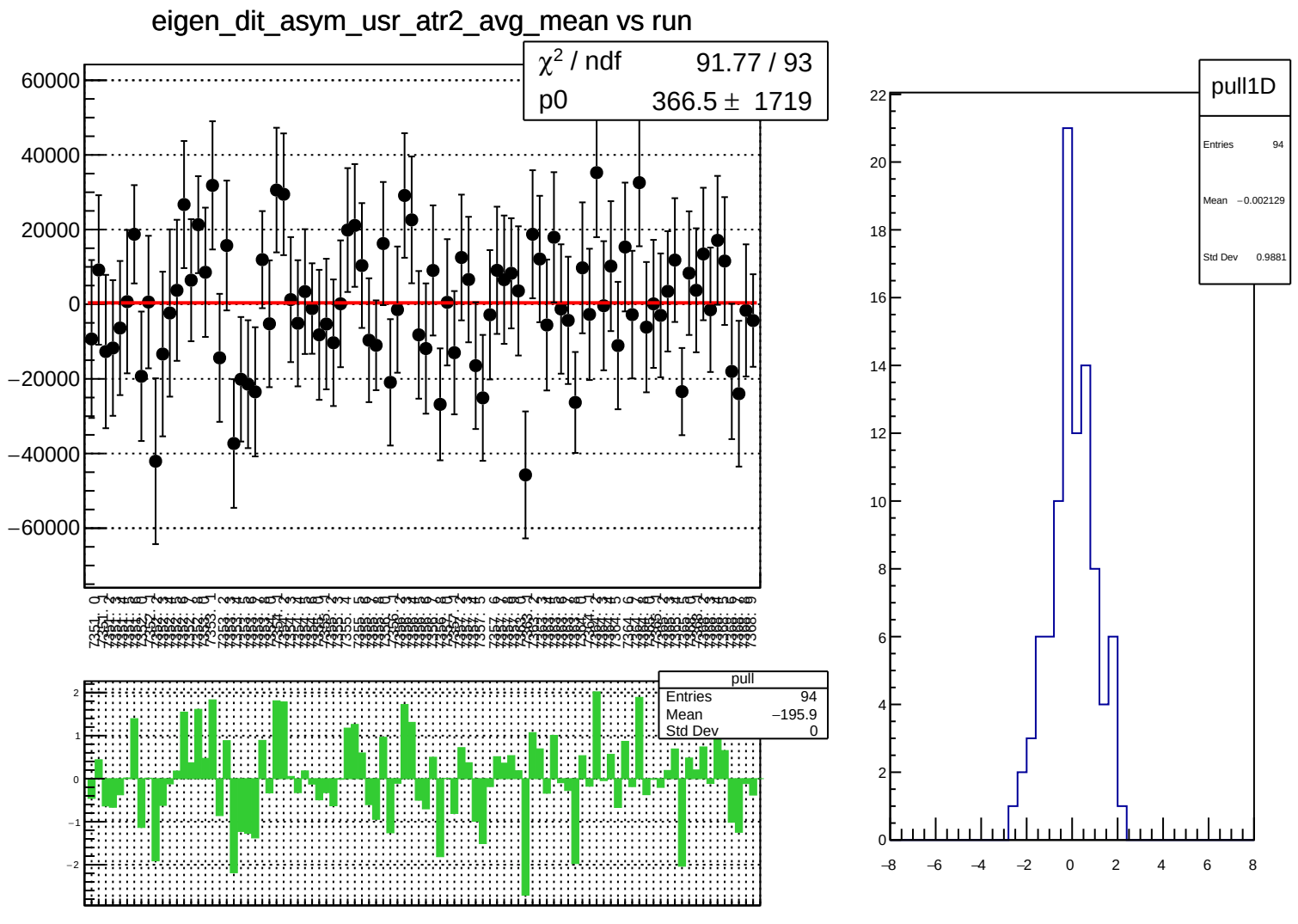

pull1D
Entries 94
Mean −0.002129
Std Dev 0.9881
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

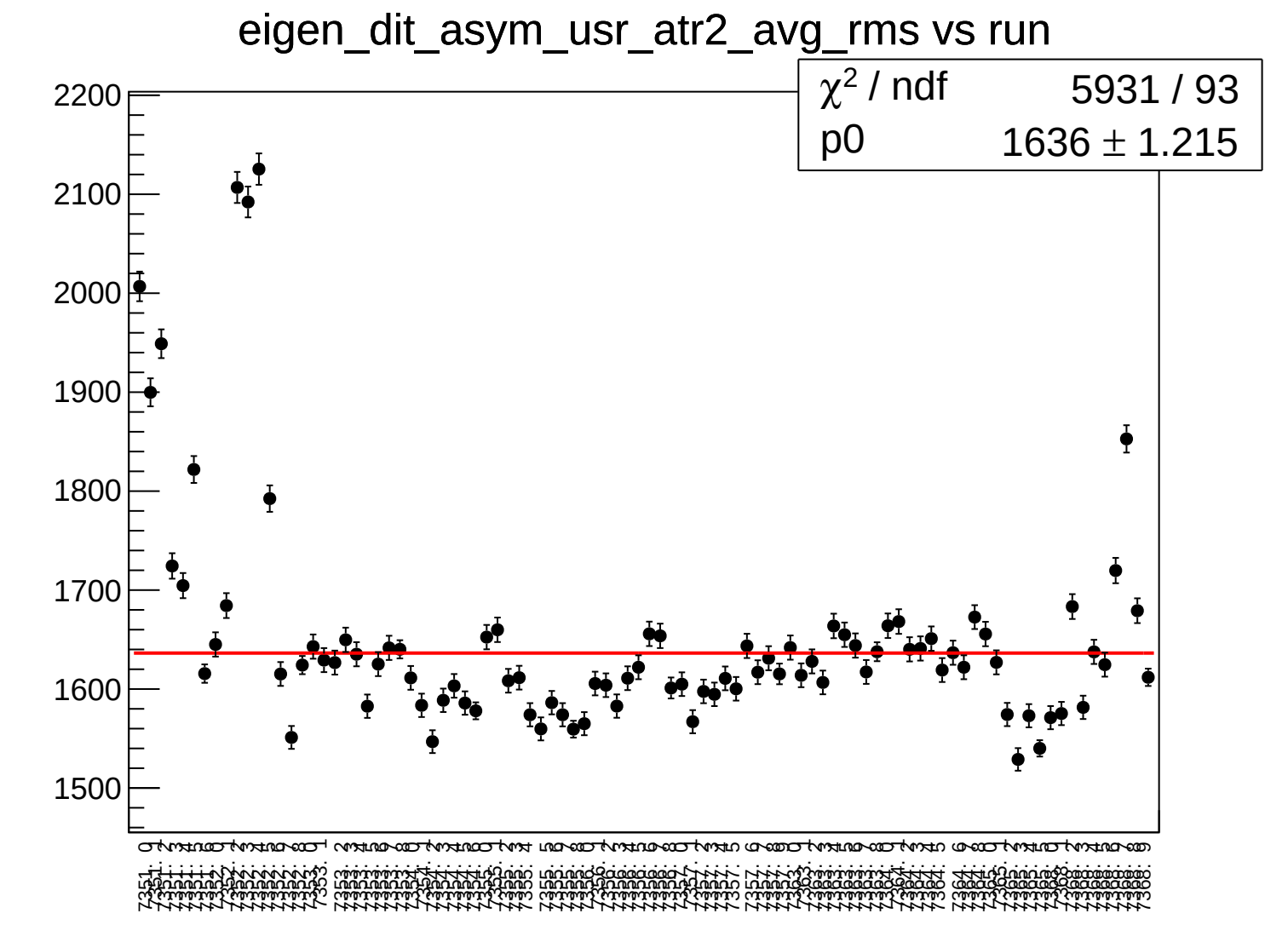

dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 5931 / 93
p0 1636 ± 1.215
2200
2100
2000
1900
1800
1700
1600
1500

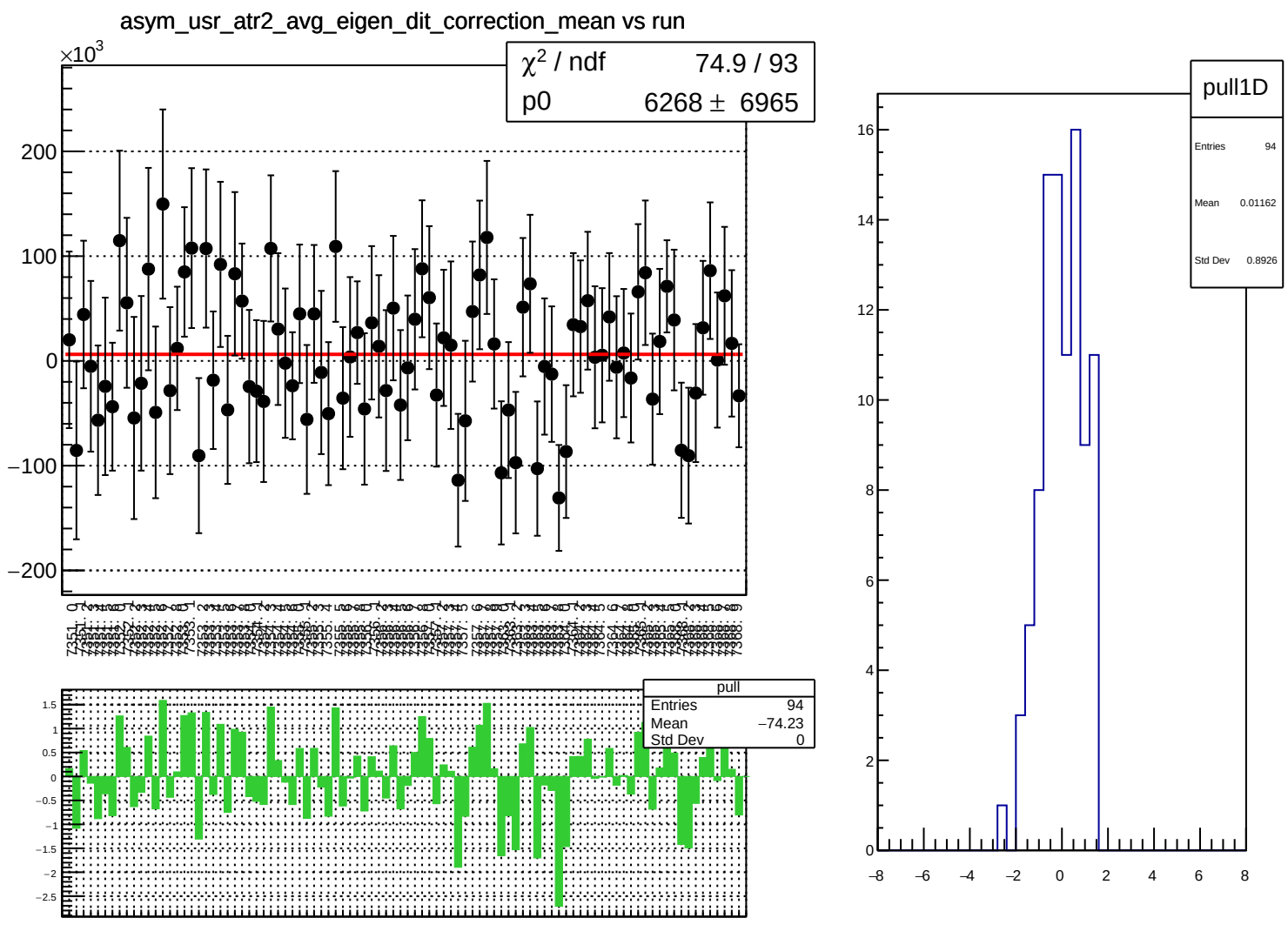

asym_usr_atr2_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 74.9 / 93
p0 6268 ± 6965
200
100
0
−100
−200
pull
Entries 94
Mean −74.23
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

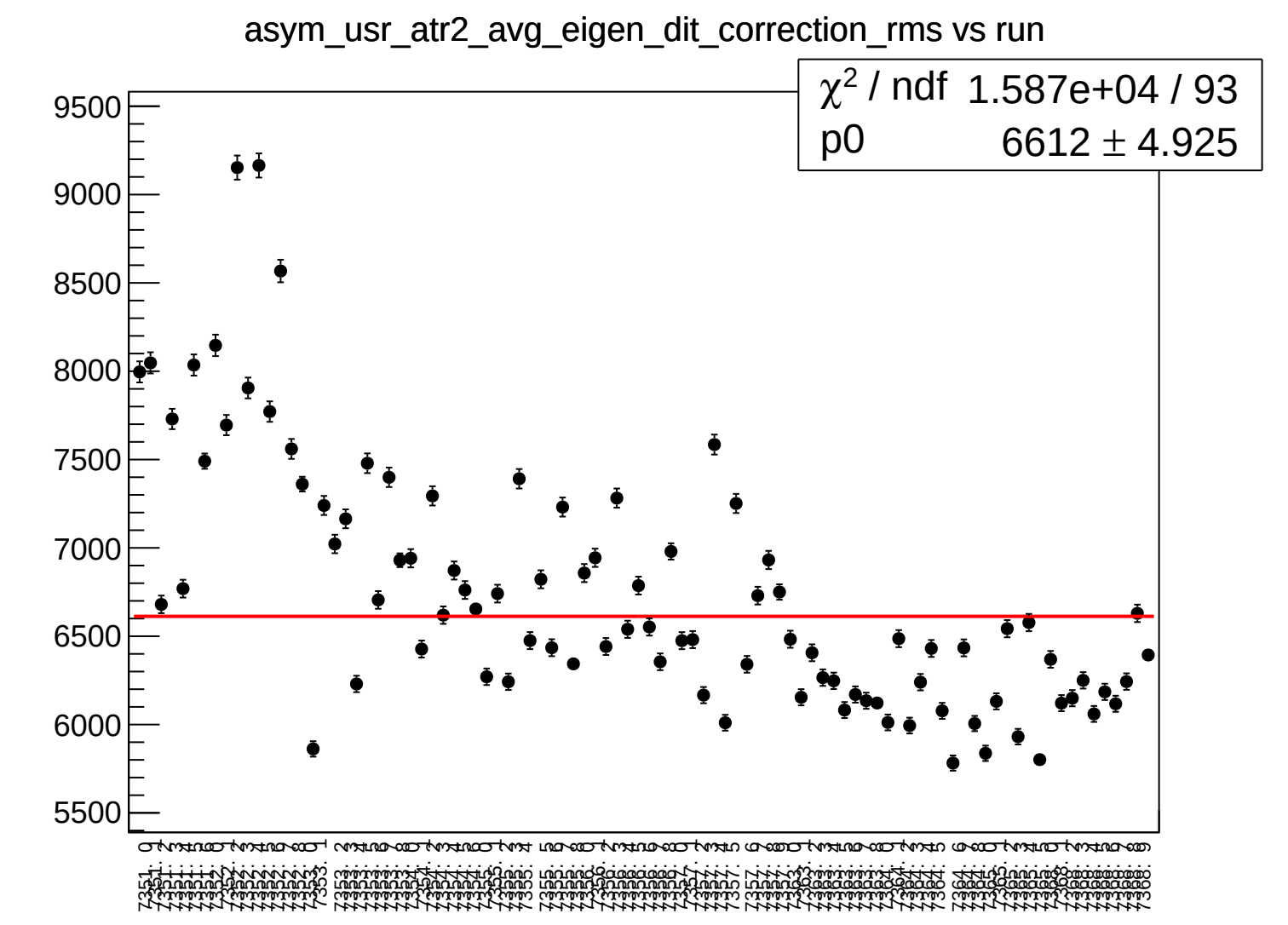

pull1D
Entries 94
Mean 0.01162
Std Dev 0.8926
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

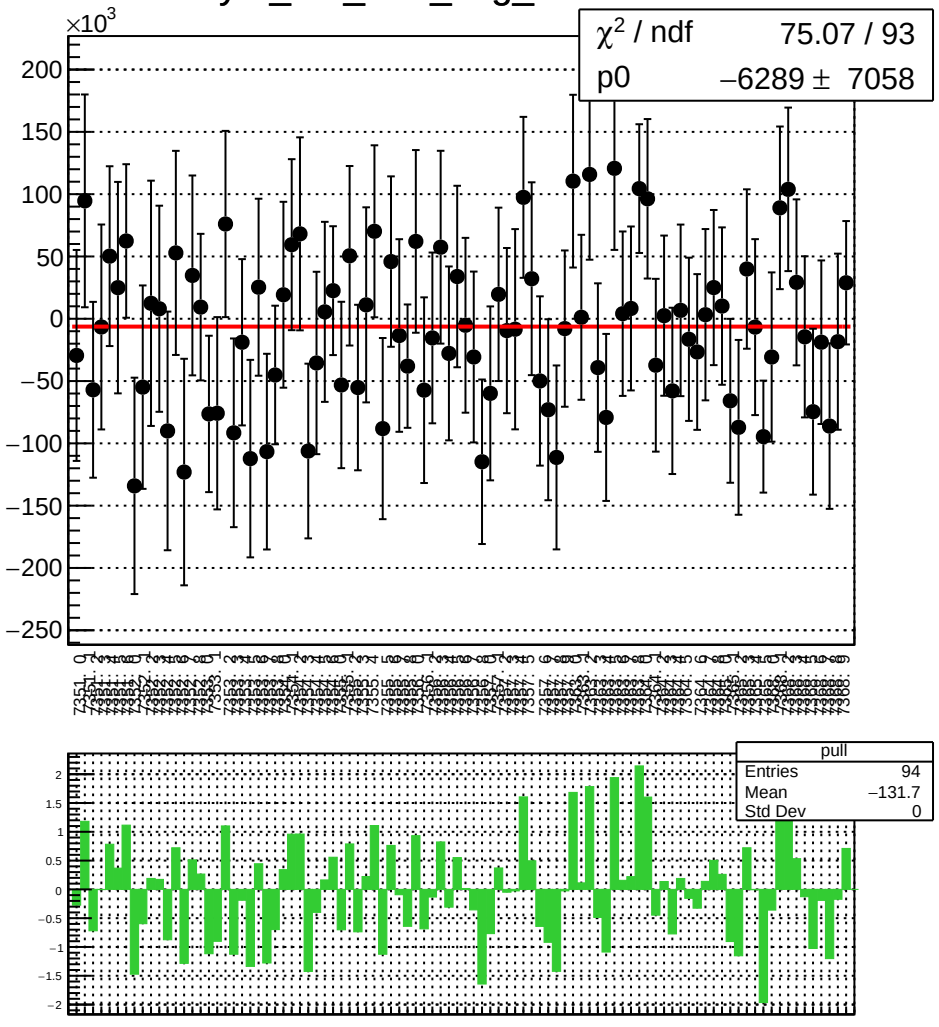

asym_usr_atr2_avg_dit_correction_rms vs run
χ² / ndf 1.587e+04 / 93
p0 6612 ± 4.925
9500
9000
8500
8000
7500
7000
6500
6000
5500

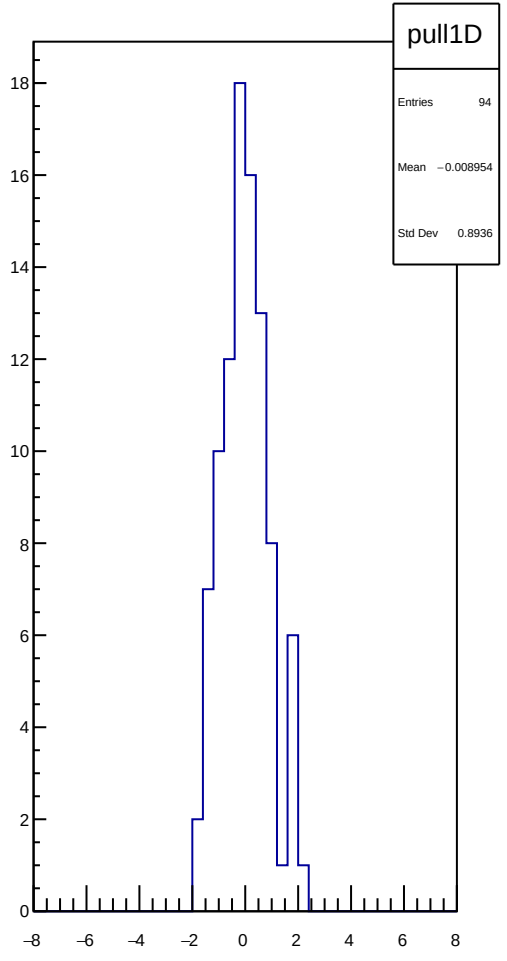

eigen_dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 91.77 / 93
p0 366.5 ± 1719
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −195.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.002129
Std Dev 0.9881
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

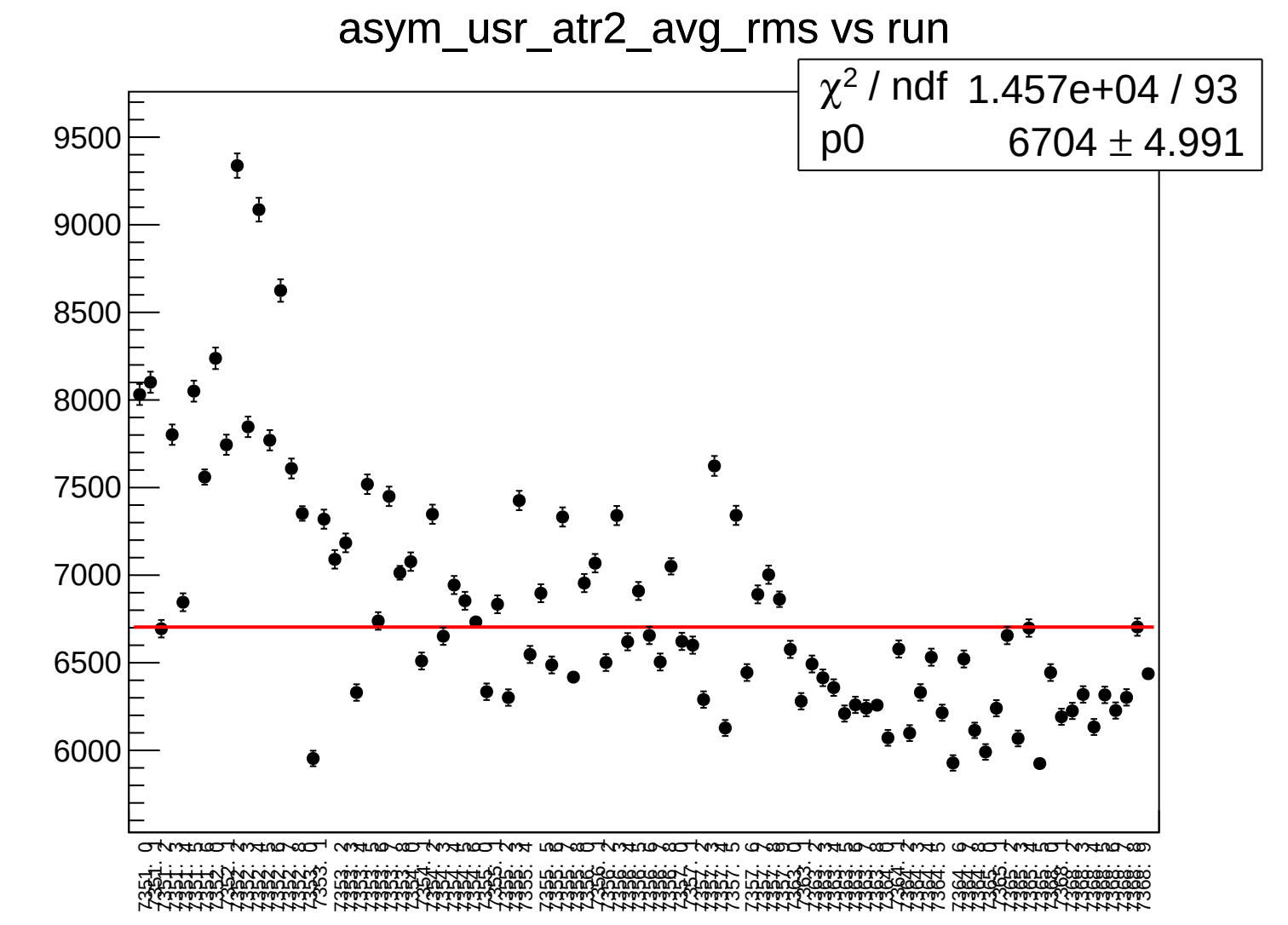

eigen_dit_asym_usr_atr2_avg_rms vs run
χ^2 / ndf 5931 / 93
p0 1636 ± 1.215
2200
2100
2000
1900
1800
1700
1600
1500

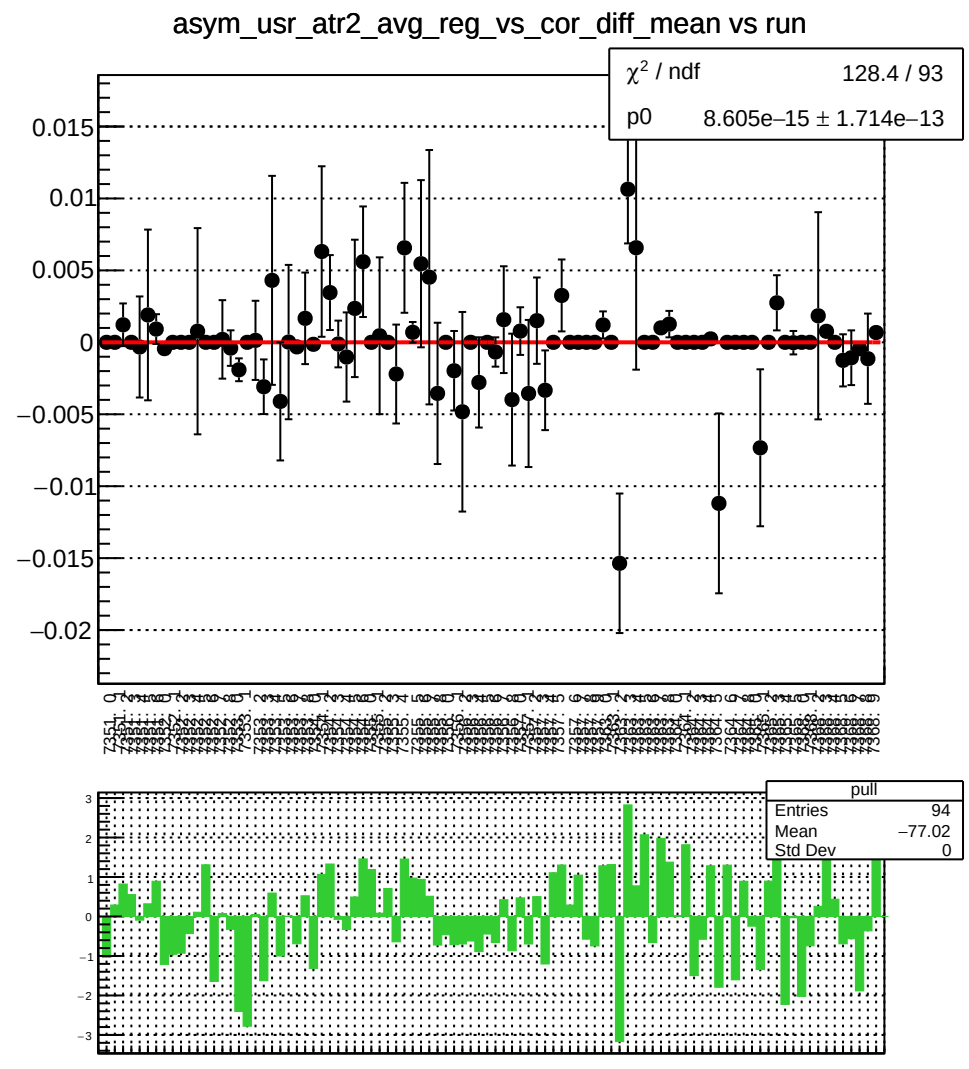

asym_usr_atr2_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 74.9 / 93
p0 6268 ± 6965
200
100
0
−100
−200
pull
Entries 94
Mean −74.23
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 94
Mean 0.01162
Std Dev 0.8926
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

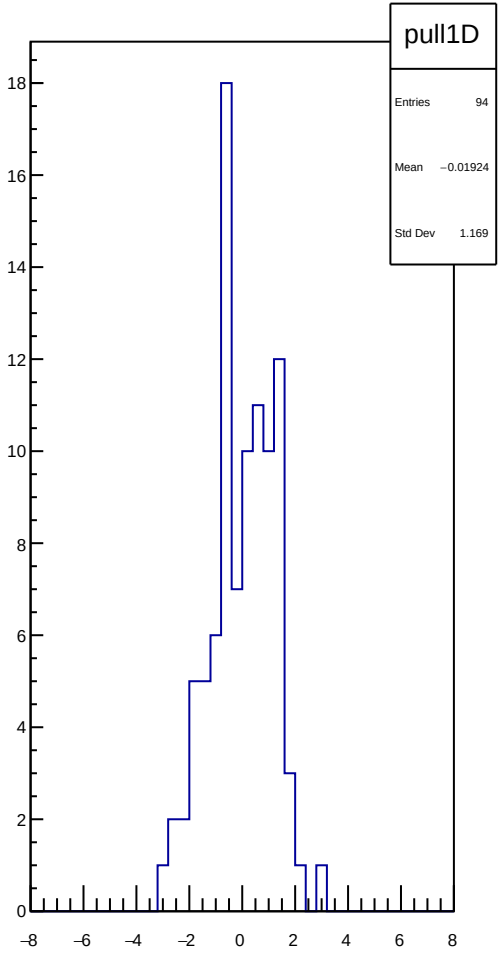

asym_usr_atr2_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.587e+04 / 93
p0 6612 ± 4.925
9500
9000
8500
8000
7500
7000
6500
6000
5500

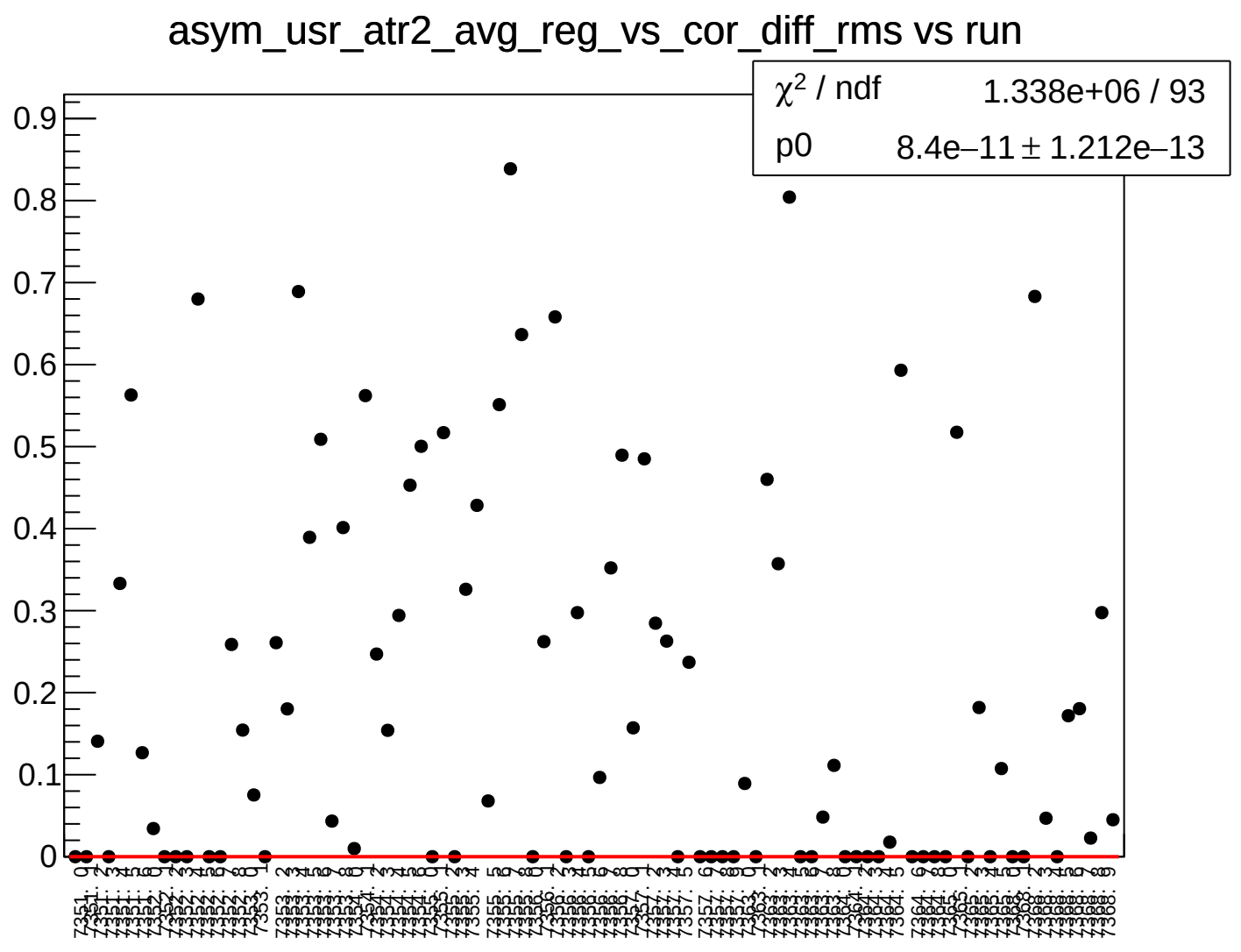

asym_usr_atr2_avg_mean vs run
×10^3
χ^2 / ndf 75.07 / 93
p0 −6289 ± 7058
200
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 94
Mean −131.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

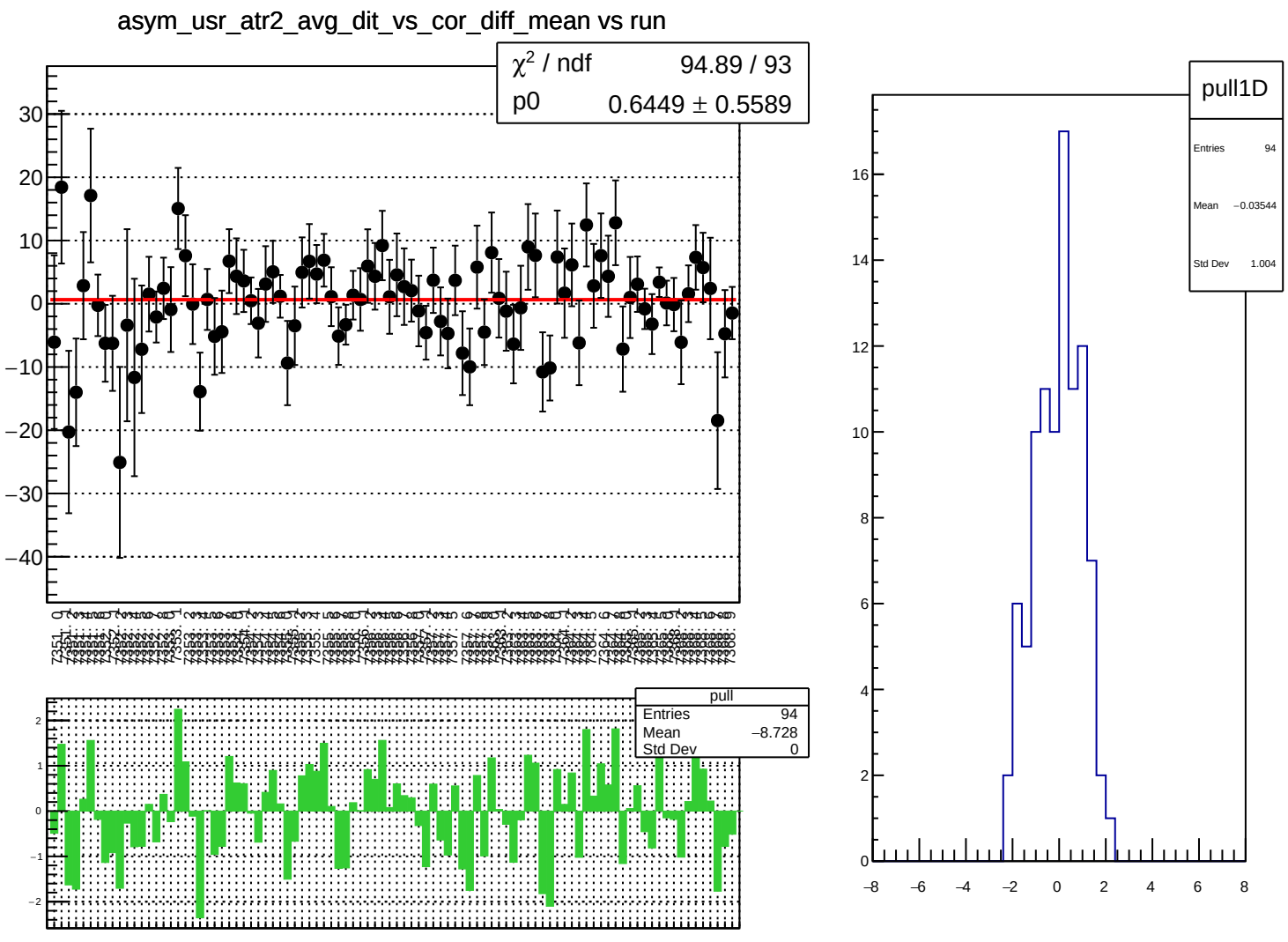

pull1D
Entries 94
Mean −0.008954
Std Dev 0.8936
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

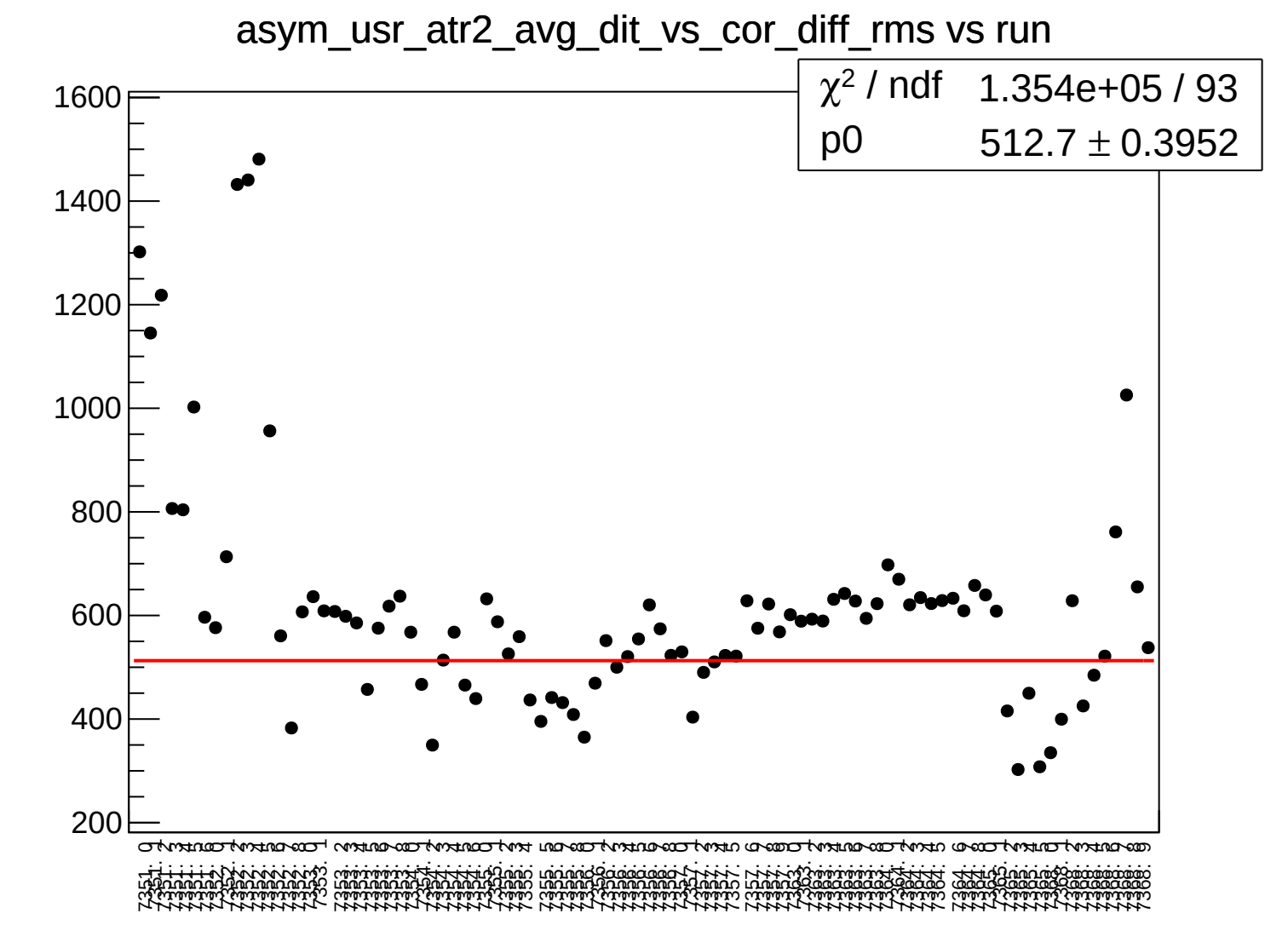

asym_usr_atr2_avg_rms vs run
χ² / ndf 1.457e+04 / 93
p0 6704 ± 4.991
9500
9000
8500
8000
7500
7000
6500
6000

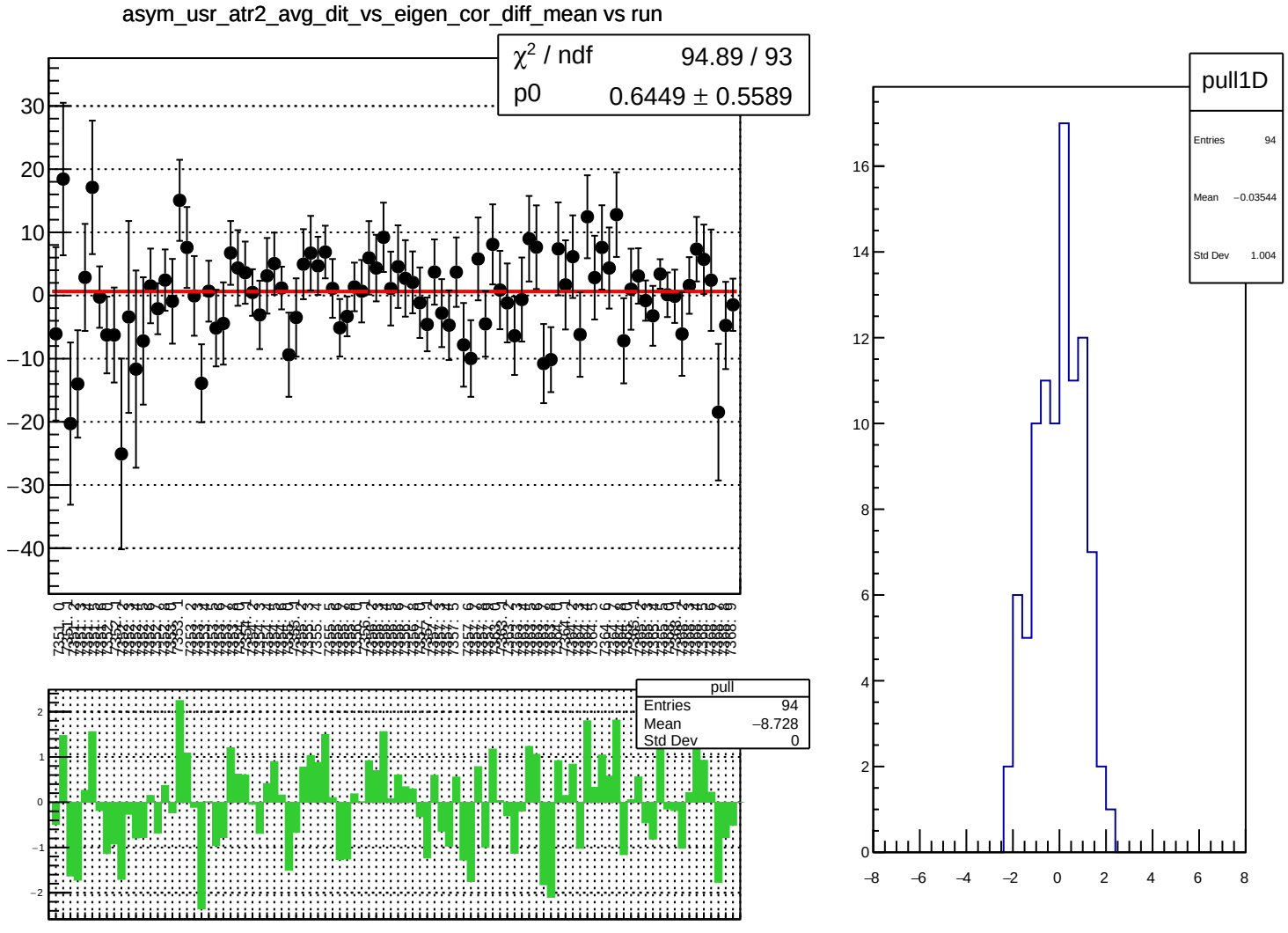

asym_usr_atr2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 128.4 / 93
p0 8.605e−15 ± 1.714e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 94
Mean −77.02
Std Dev 0
3
2
1
0
−1
−2
−3

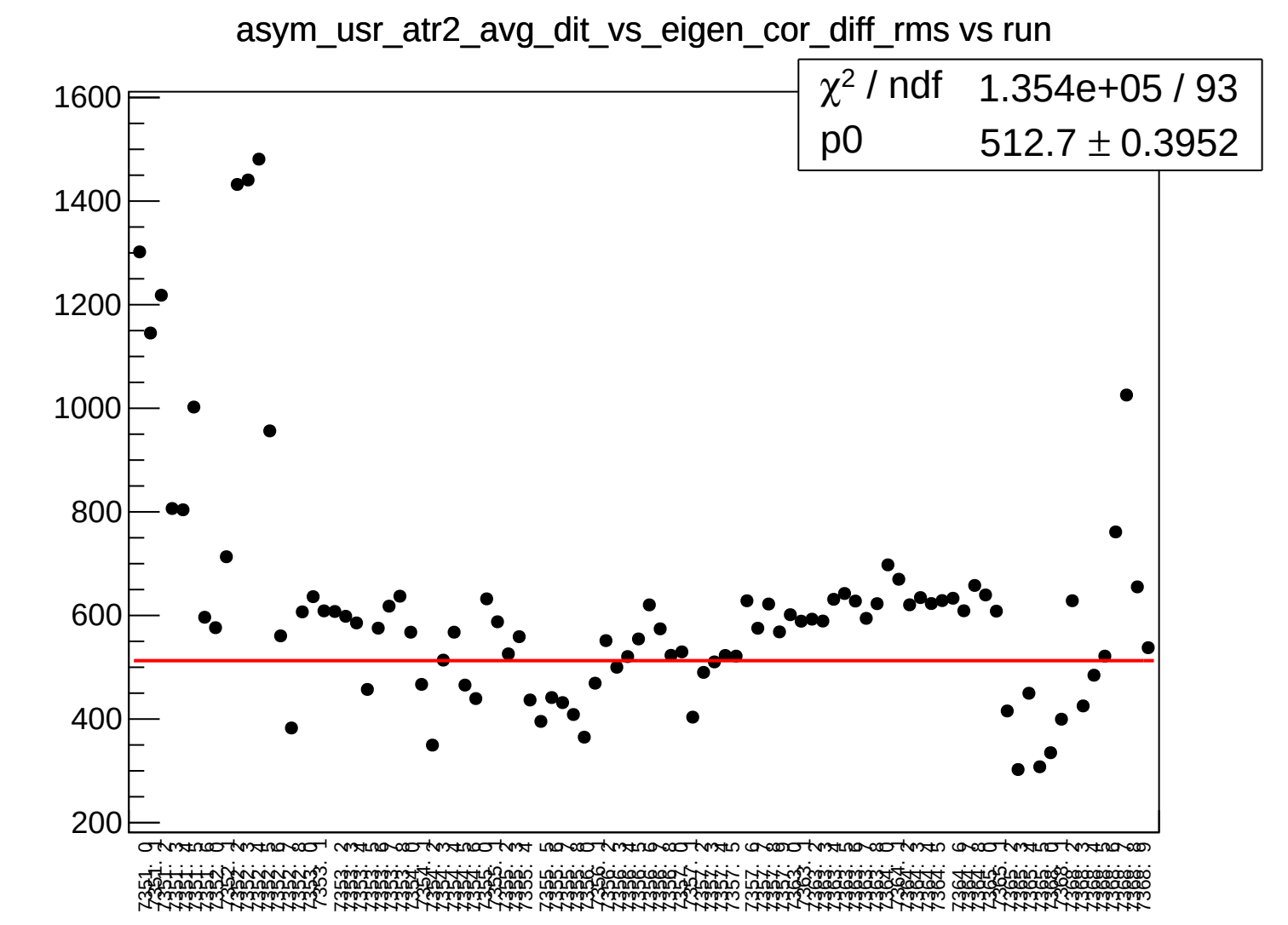

pull1D
Entries 94
Mean −0.01924
Std Dev 1.169
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

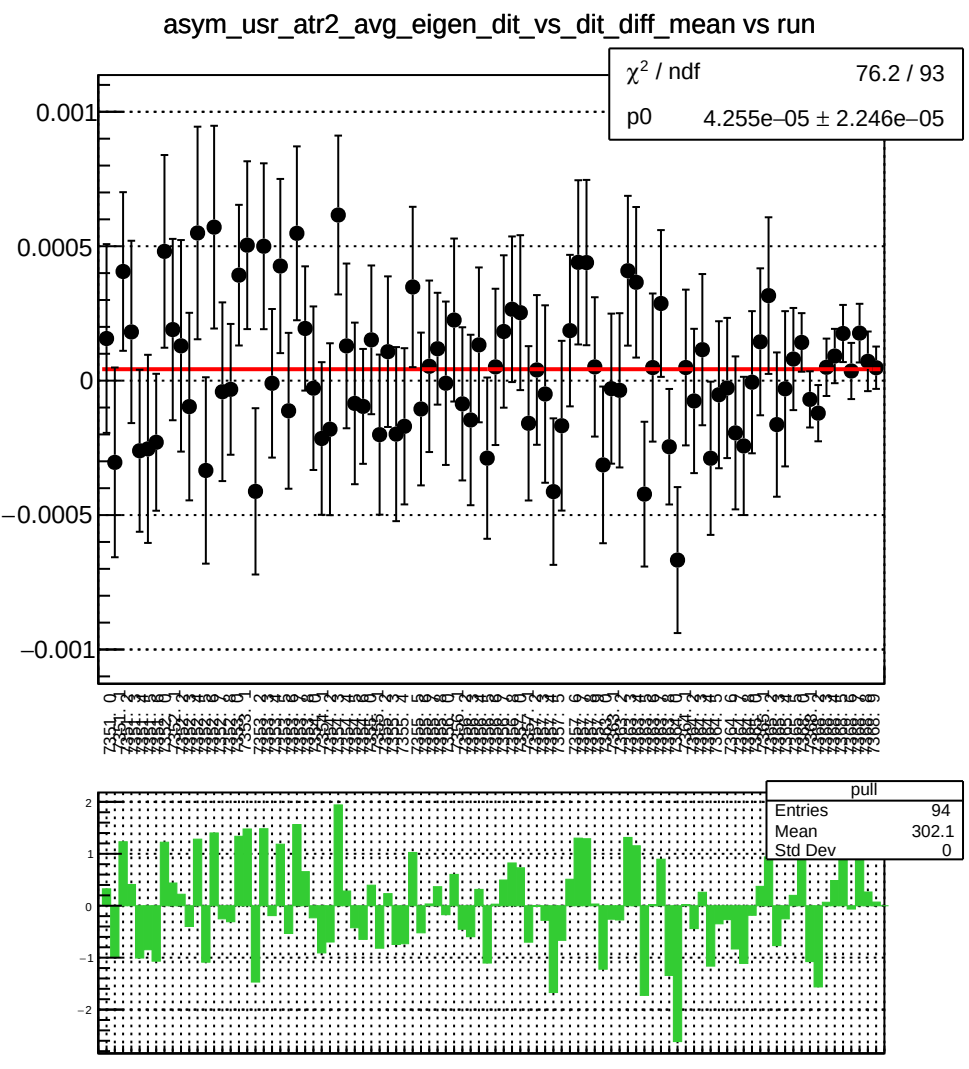

asym_usr_atr2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.338e+06 / 93
p0 8.4e−11 ± 1.212e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

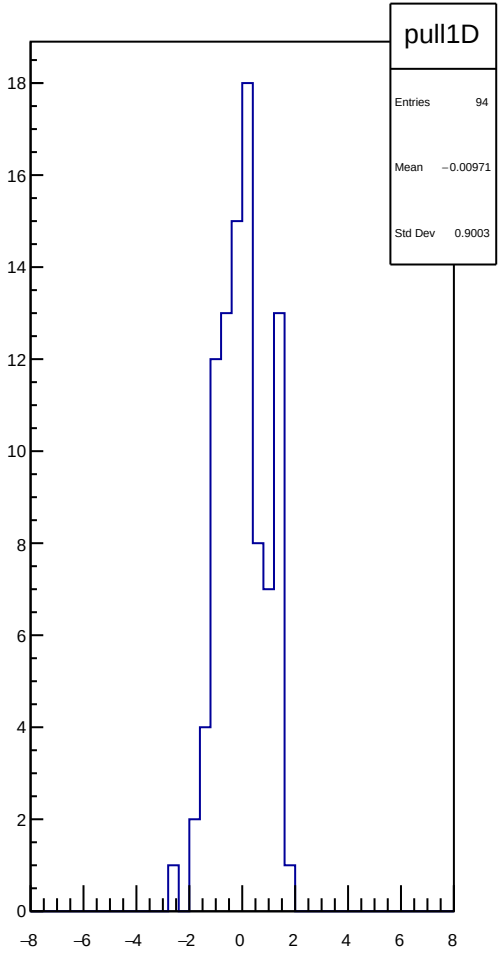

asym_usr_atr2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 94.89 / 93
p0 0.6449 ± 0.5589
pull
Entries 94
Mean −8.728
Std Dev 0
pull1D
Entries 94
Mean −0.03544
Std Dev 1.004

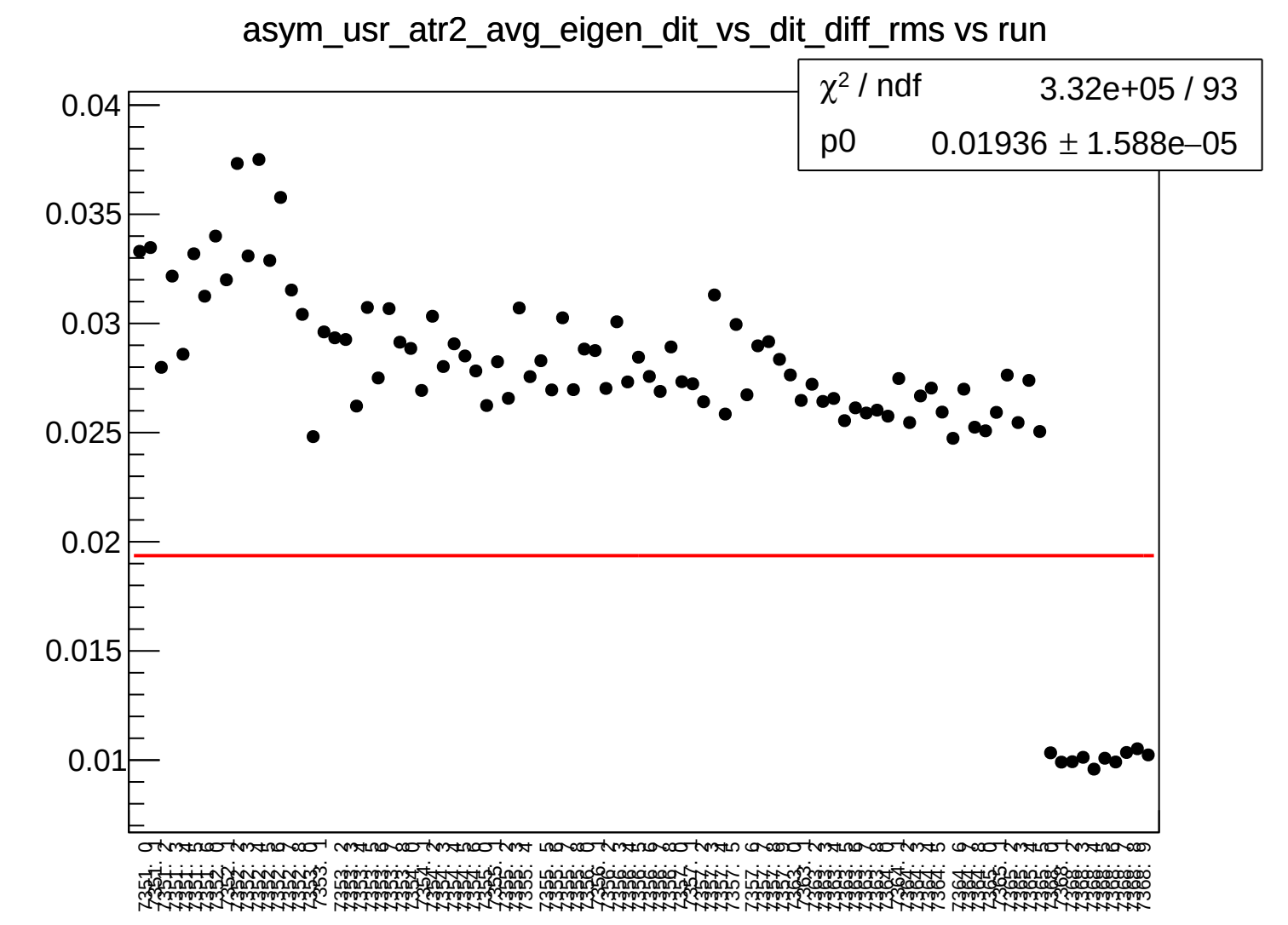

asym_usr_atr2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.354e+05 / 93
p0 512.7 ± 0.3952
1600
1400
1200
1000
800
600
400
200

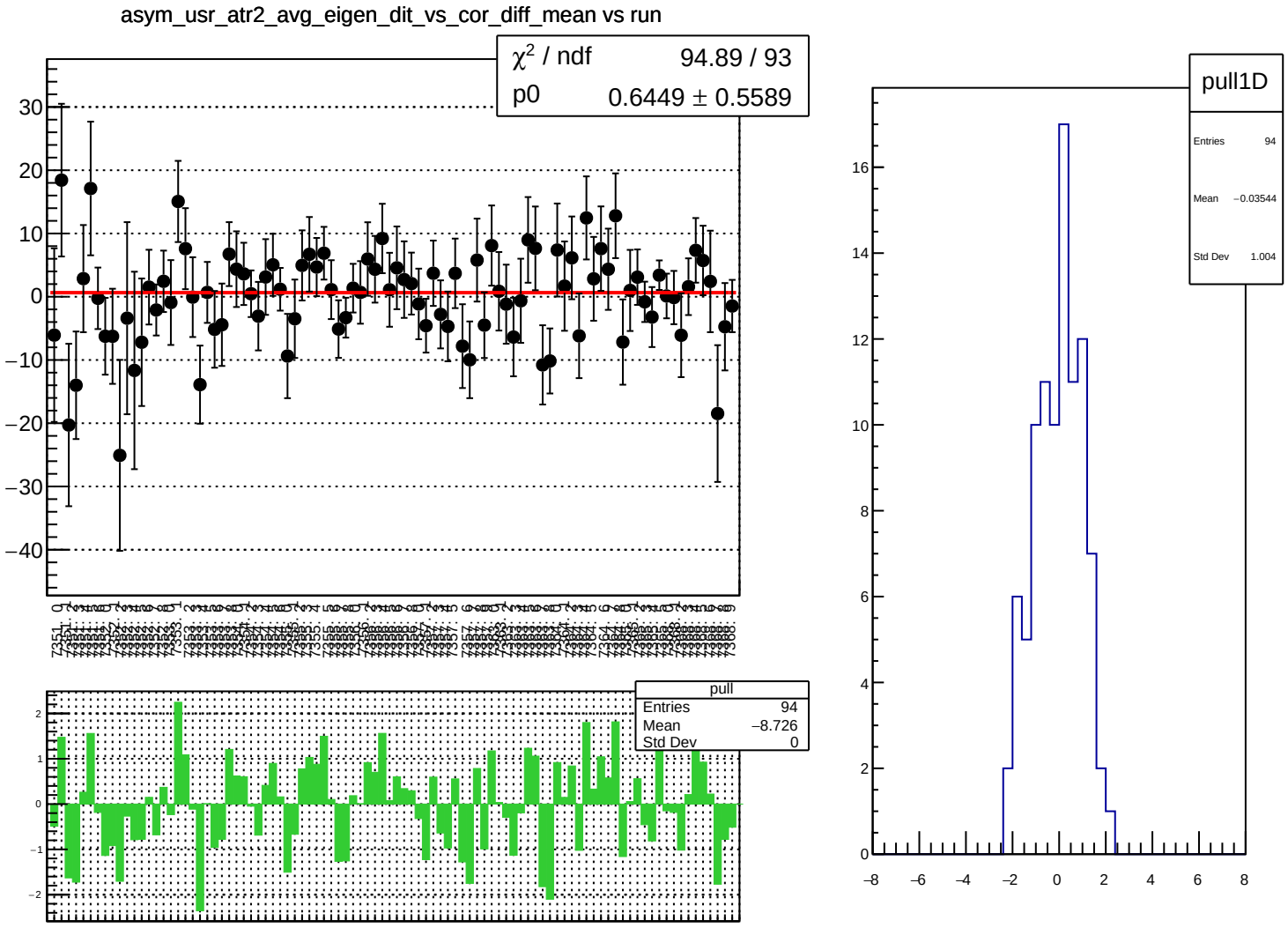

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.89 / 93
p0 0.6449 ± 0.5589
pull
Entries 94
Mean −8.728
Std Dev 0
pull1D
Entries 94
Mean −0.03544
Std Dev 1.004

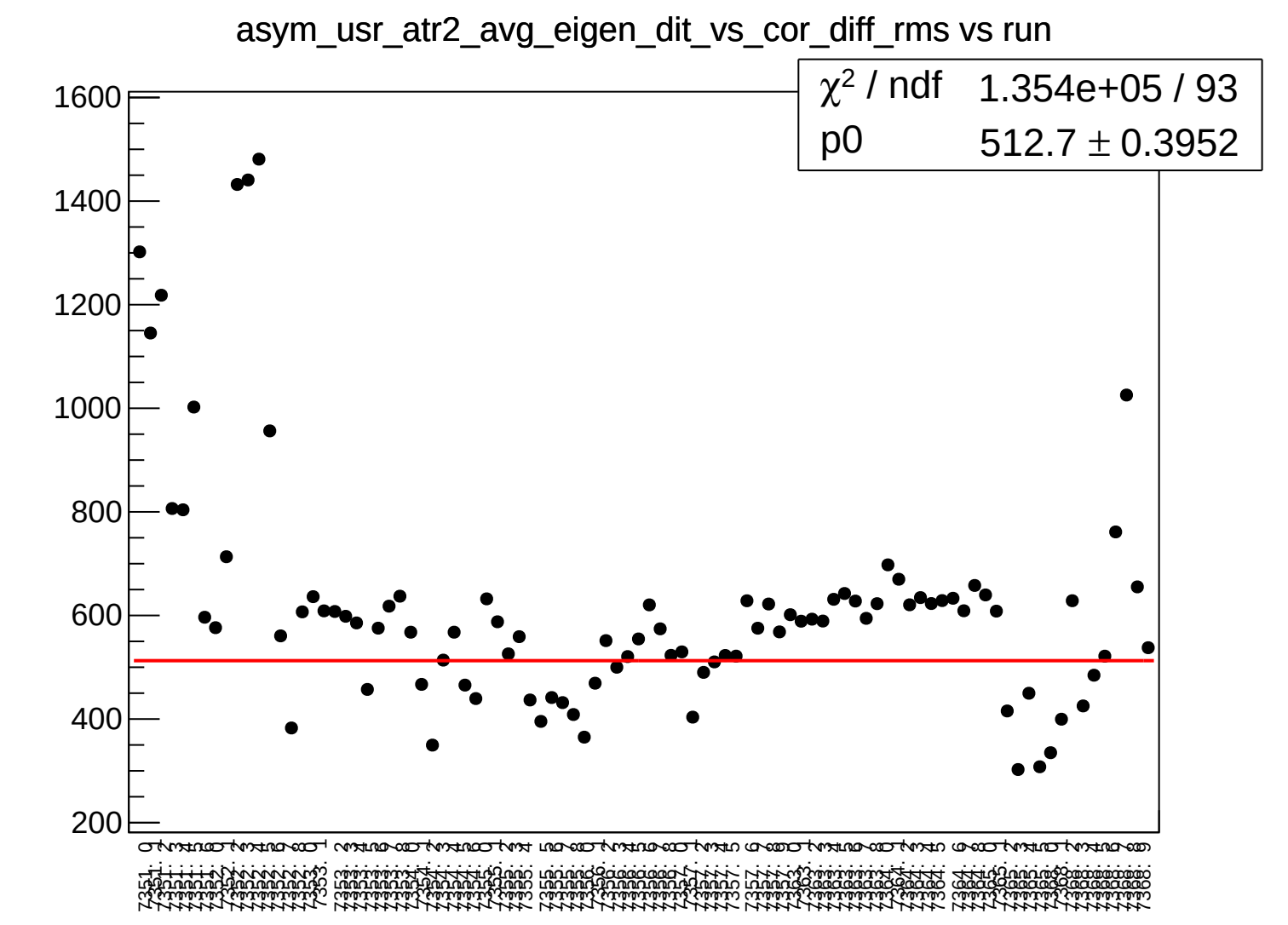

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.354e+05 / 93
p0 512.7 ± 0.3952
1600
1400
1200
1000
800
600
400
200

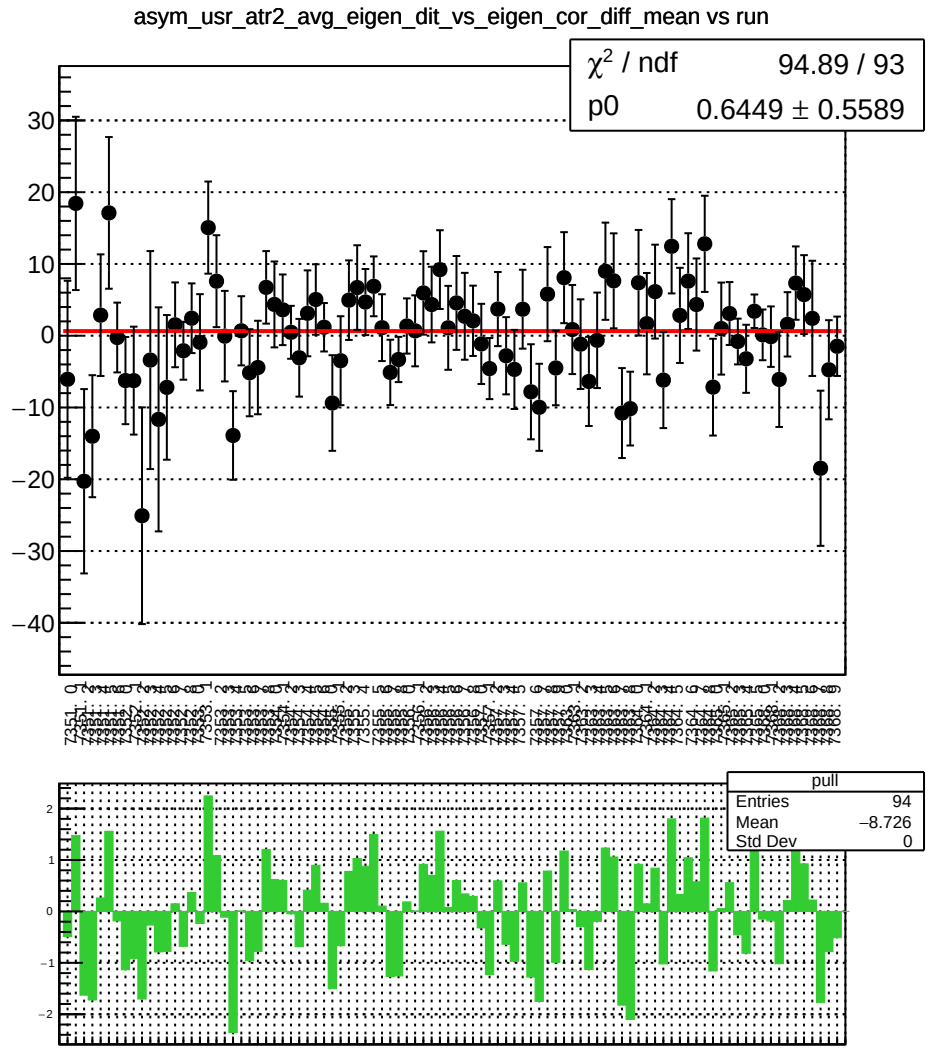

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 76.2 / 93
p0 4.255e−05 ± 2.246e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 94
Mean 302.1
Std Dev 0

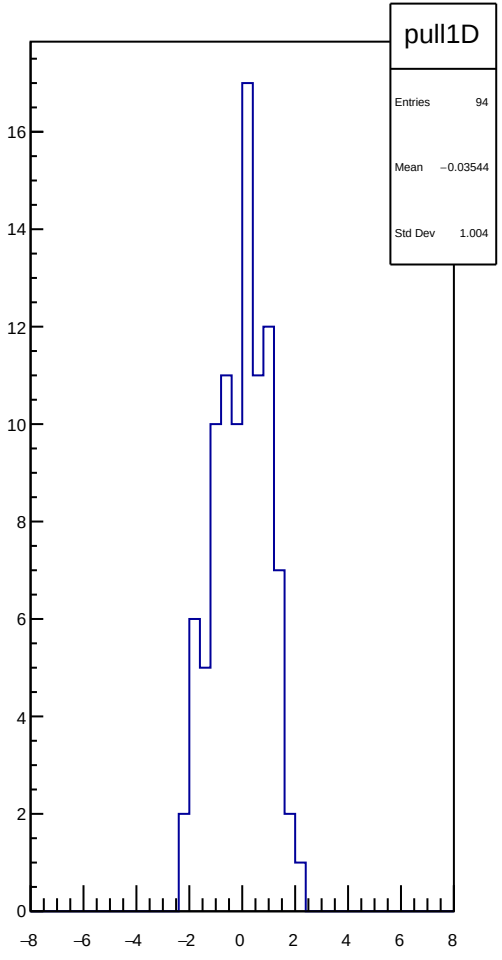

pull1D
Entries 94
Mean −0.00971
Std Dev 0.9003

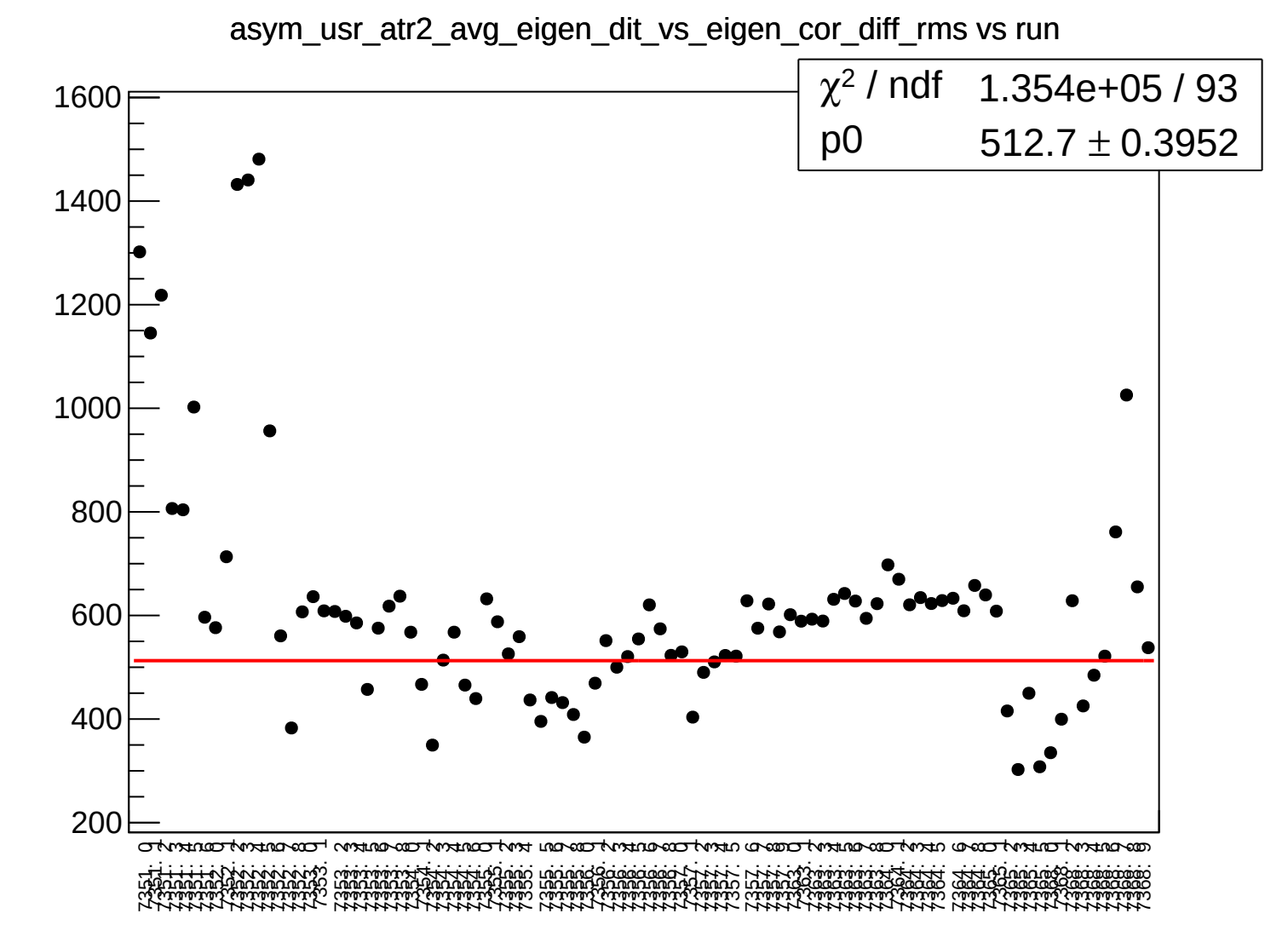

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.32e+05 / 93
p0 0.01936 ± 1.588e−05
0.04
0.035
0.03
0.025
0.02
0.015
0.01

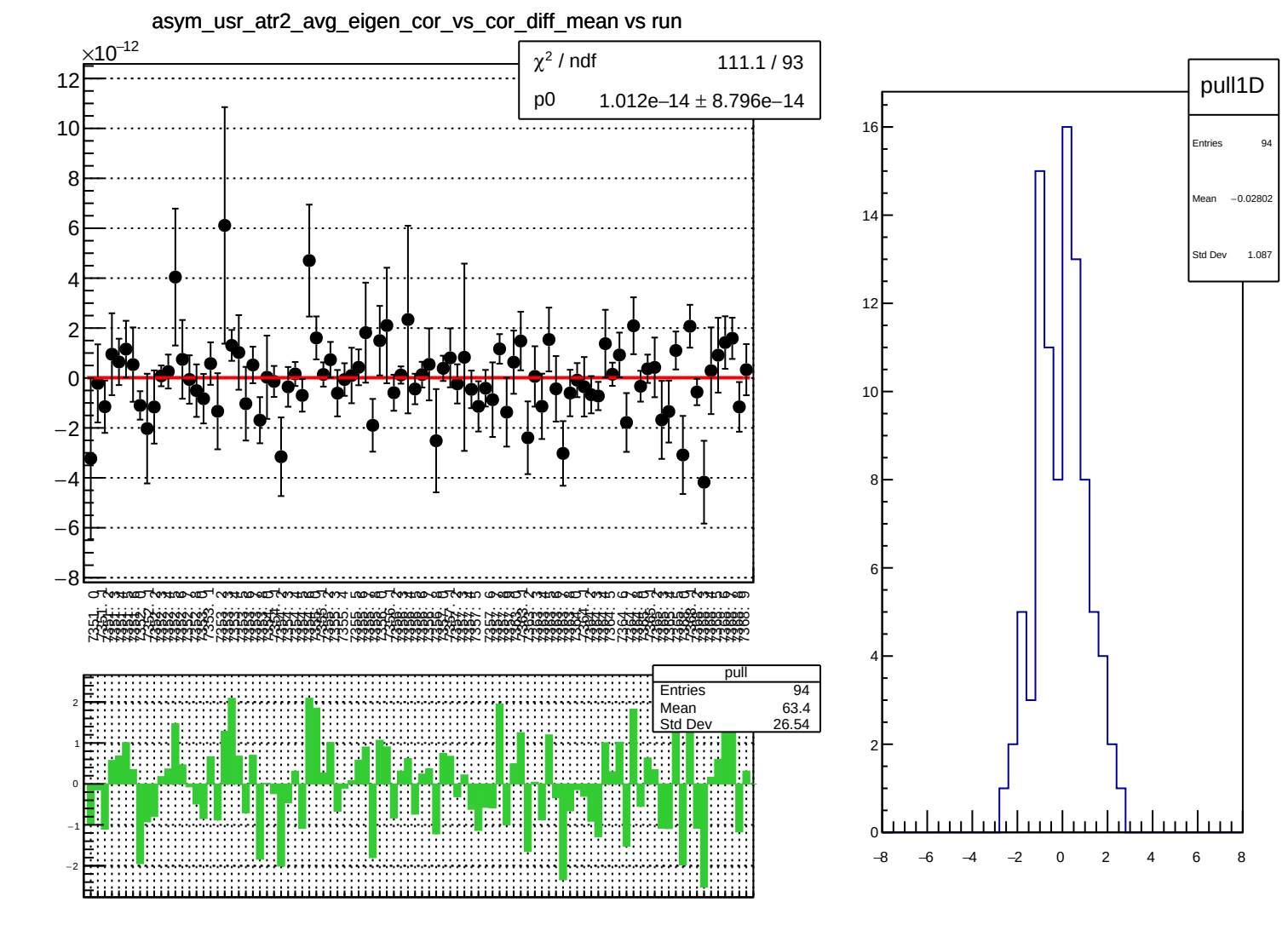

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.89 / 93
p0 0.6449 ± 0.5589
pull
Entries 94
Mean −8.726
Std Dev 0
pull1D
Entries 94
Mean −0.03544
Std Dev 1.004

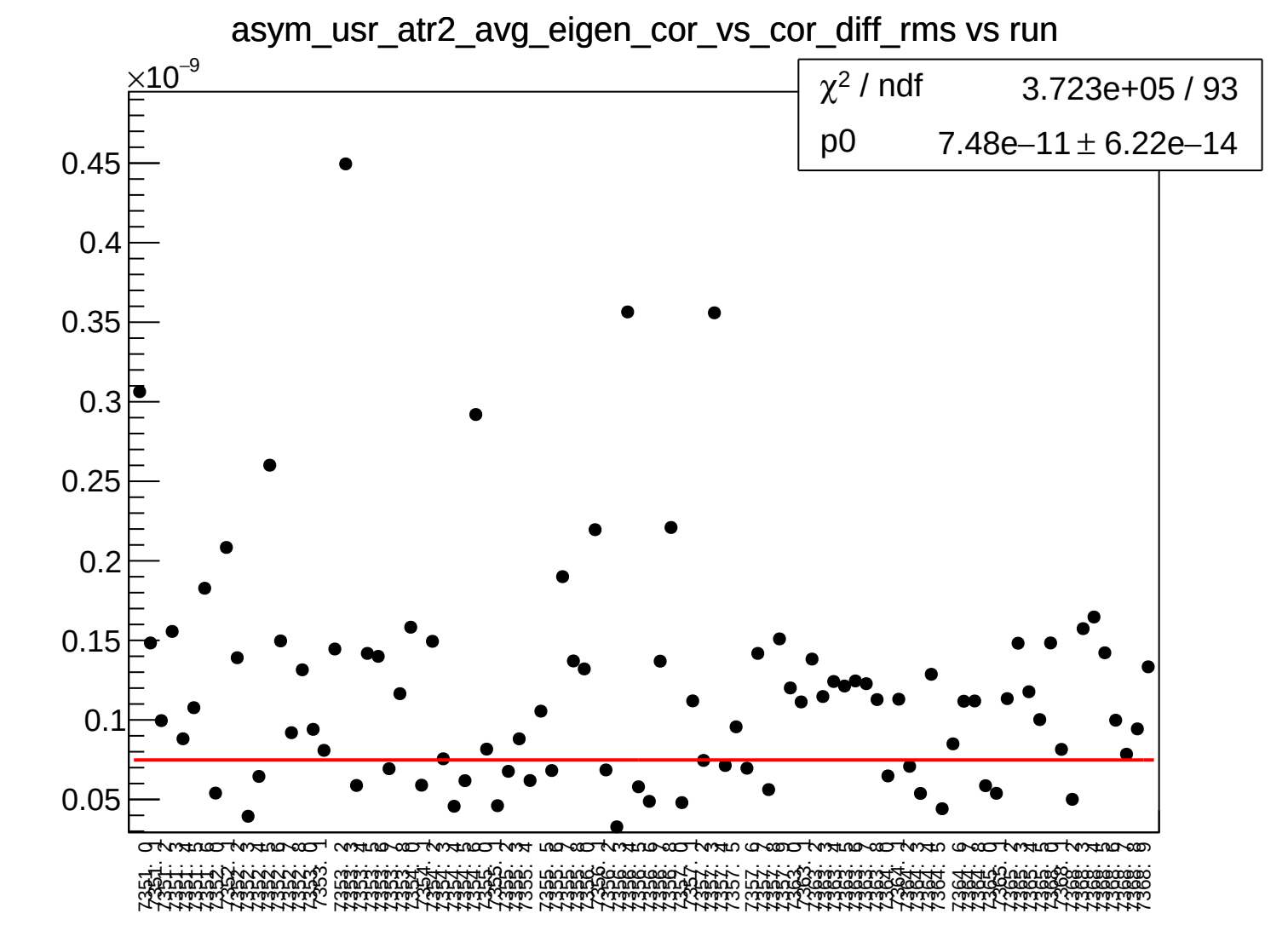

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.354e+05 / 93
p0 512.7 ± 0.3952
1600
1400
1200
1000
800
600
400
200

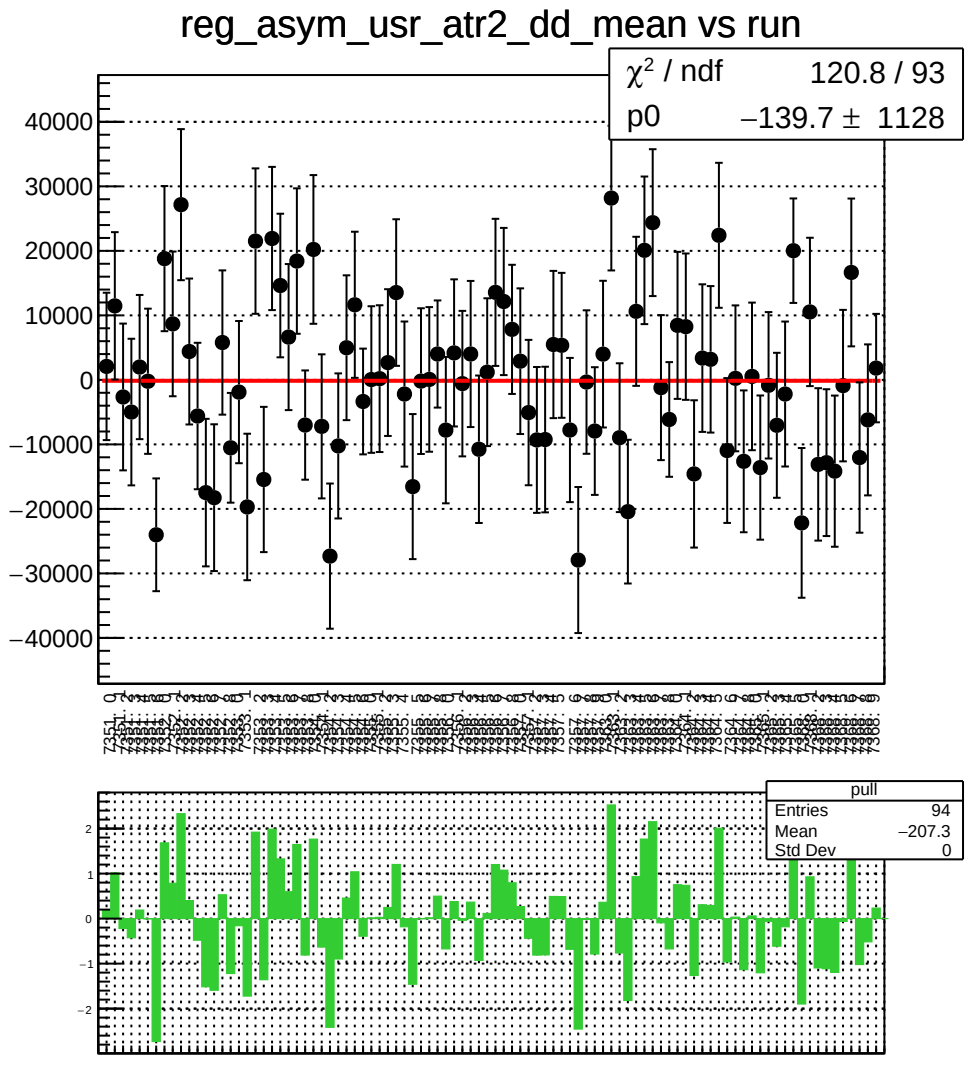

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.89 / 93
p0 0.6449 ± 0.5589
pull
Entries 94
Mean −8.726
Std Dev 0

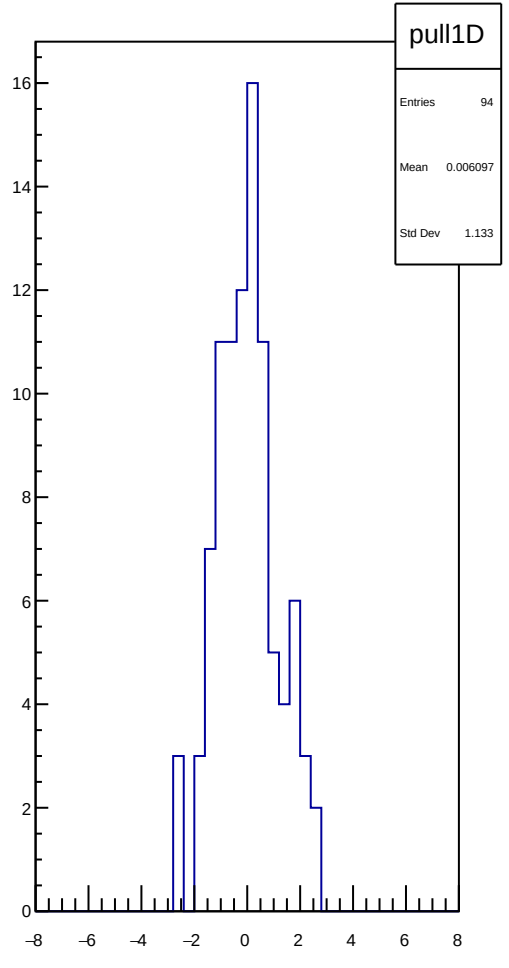

pull1D
Entries 94
Mean −0.03544
Std Dev 1.004

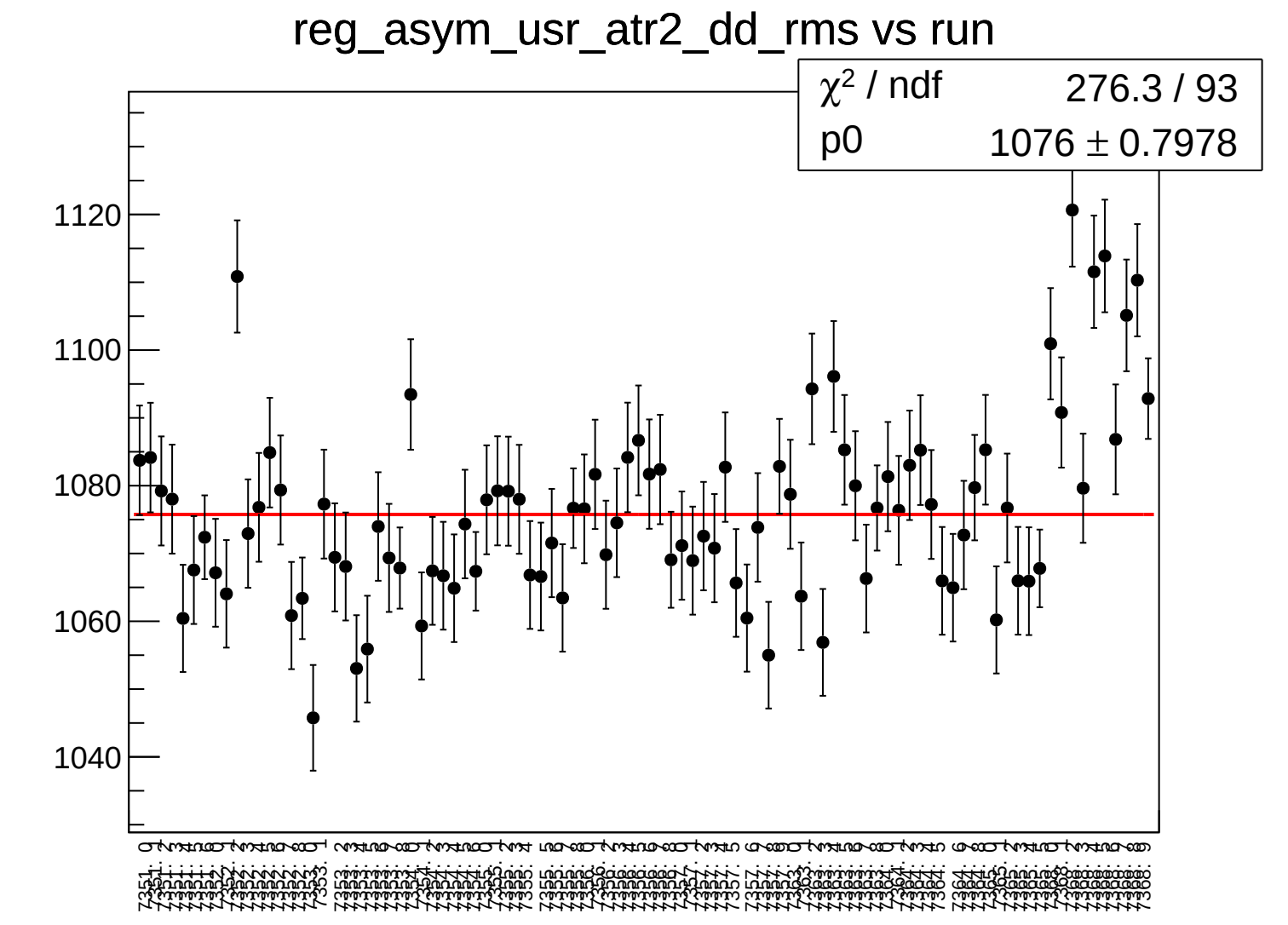

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.354e+05 / 93
p0 512.7 ± 0.3952
1600
1400
1200
1000
800
600
400
200

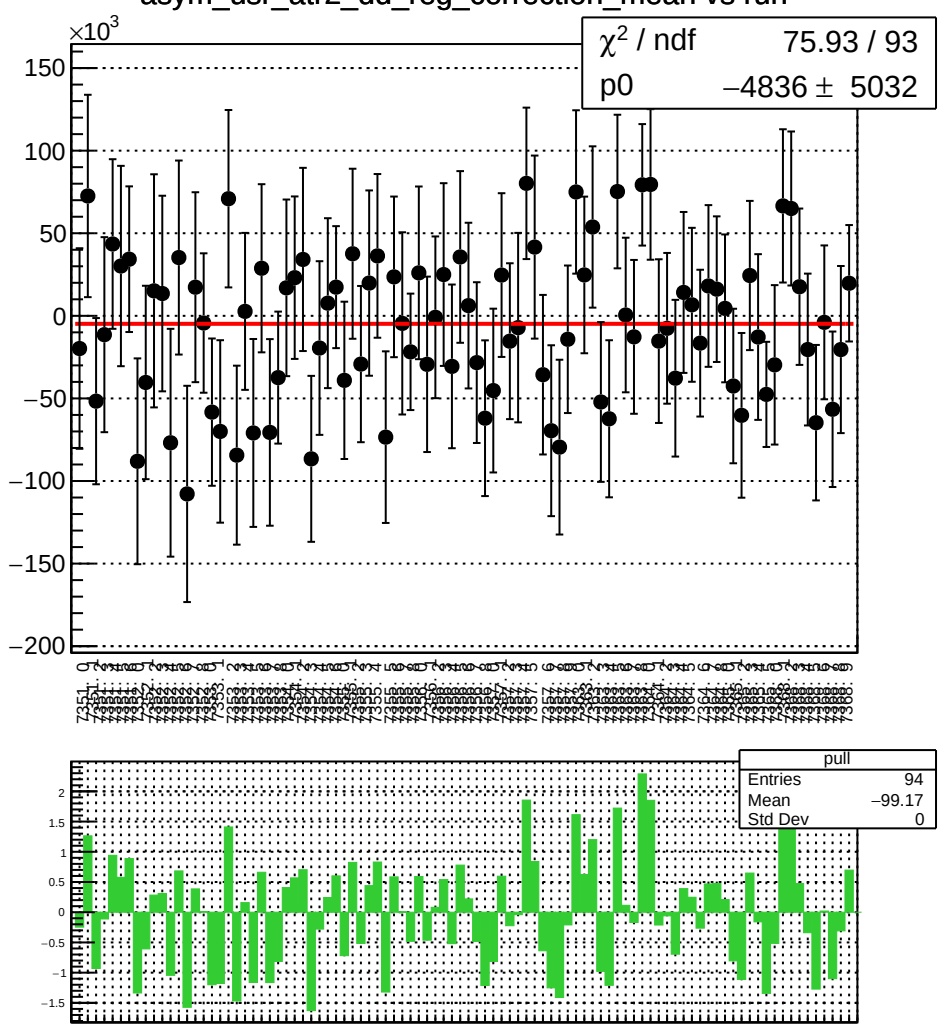

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 111.1 / 93
p0 1.012e−14 ± 8.796e−14
pull
Entries 94
Mean 63.4
Std Dev 26.54
pull1D
Entries 94
Mean −0.02802
Std Dev 1.087

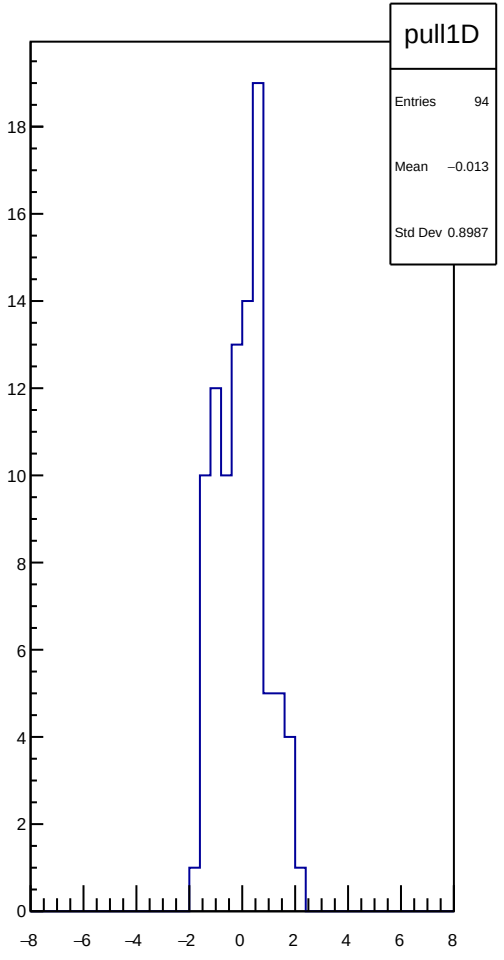

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.723e+05 / 93
p0 7.48e−11 ± 6.22e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

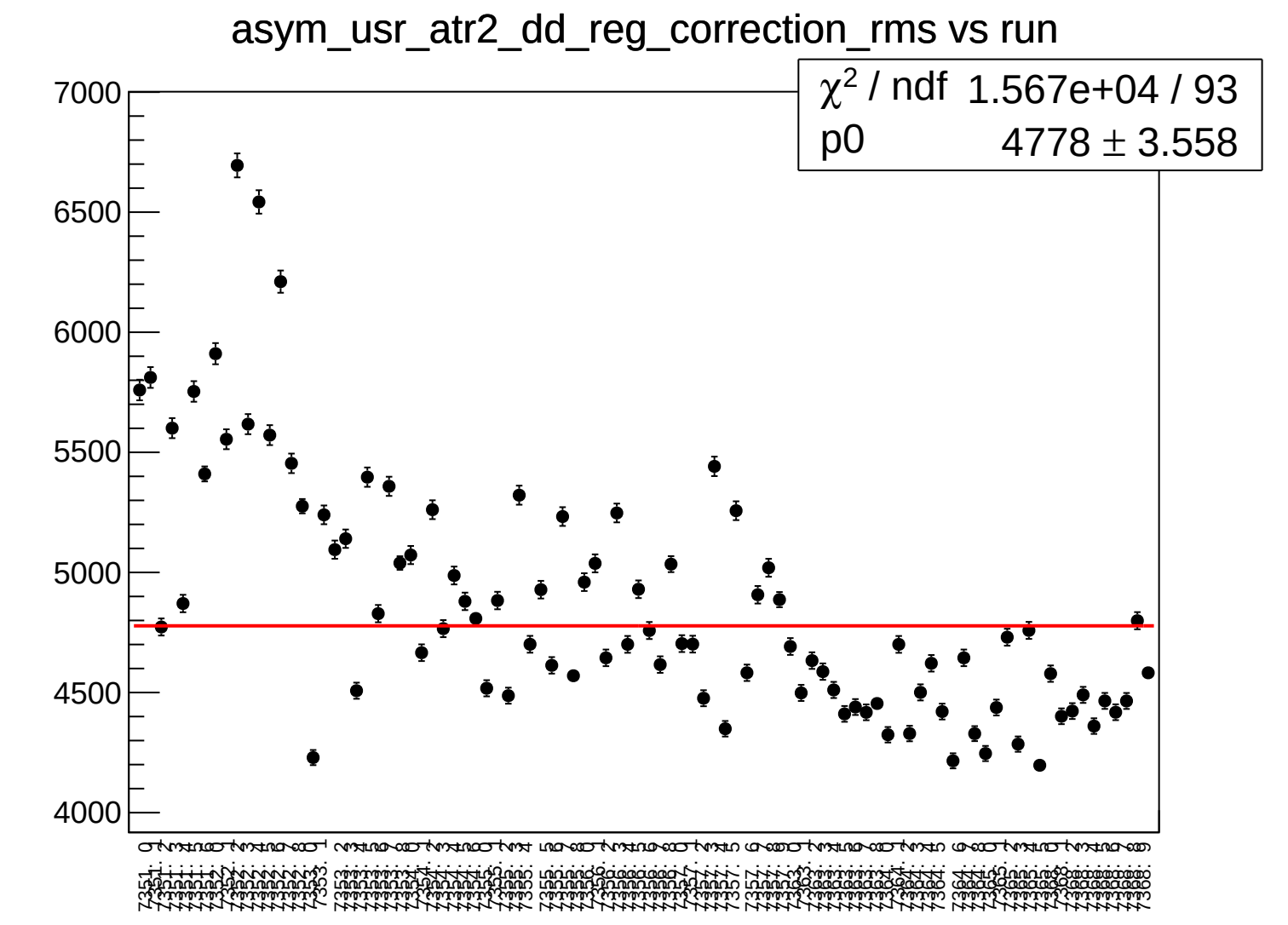

reg_asym_usr_atr2_dd_mean vs run
χ² / ndf 120.8 / 93
p0 −139.7 ± 1128
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 94
Mean −207.3
Std Dev 0
2
1
0
−1
−2

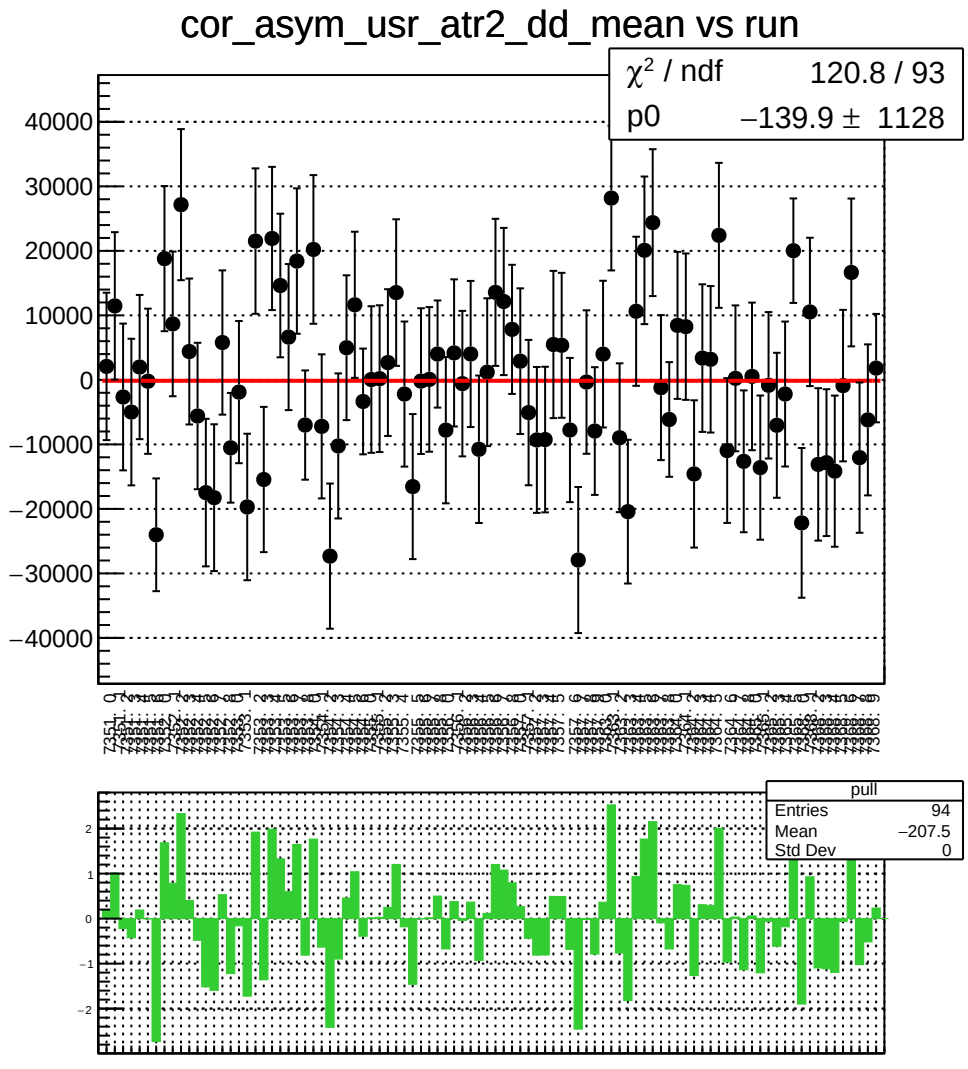

pull1D
Entries 94
Mean 0.006097
Std Dev 1.133
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

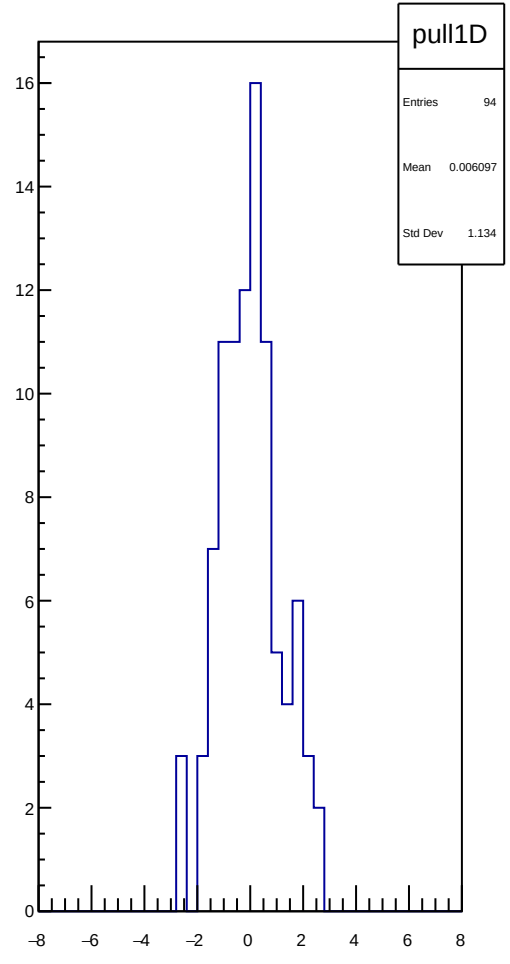

reg_asym_usr_atr2_dd_rms vs run
χ² / ndf 276.3 / 93
p0 1076 ± 0.7978
1120
1100
1080
1060
1040

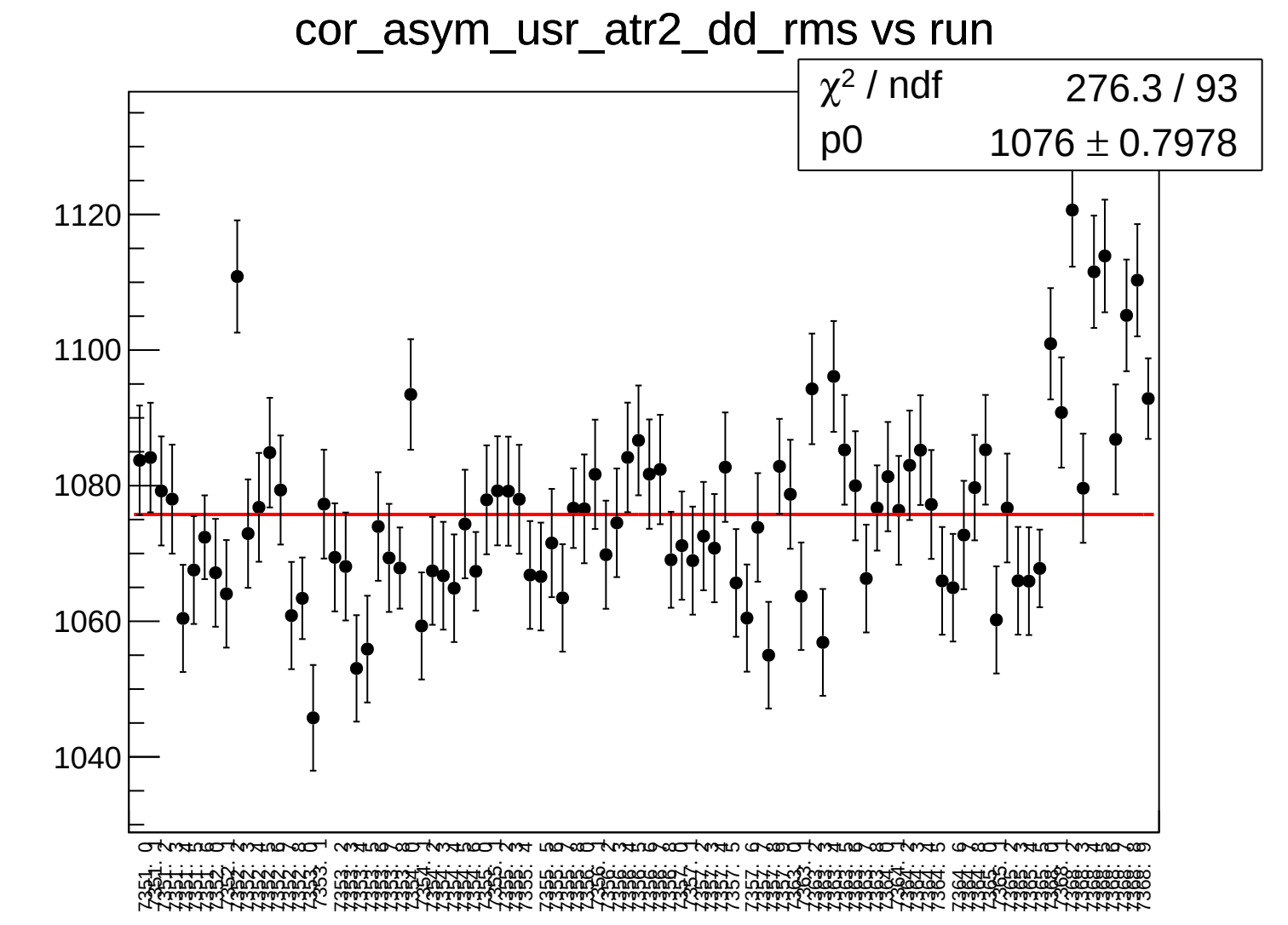

asym_usr_atr2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 75.93 / 93
p0 −4836 ± 5032
150
100
50
0
−50
−100
−150
−200
pull
Entries 94
Mean −99.17
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

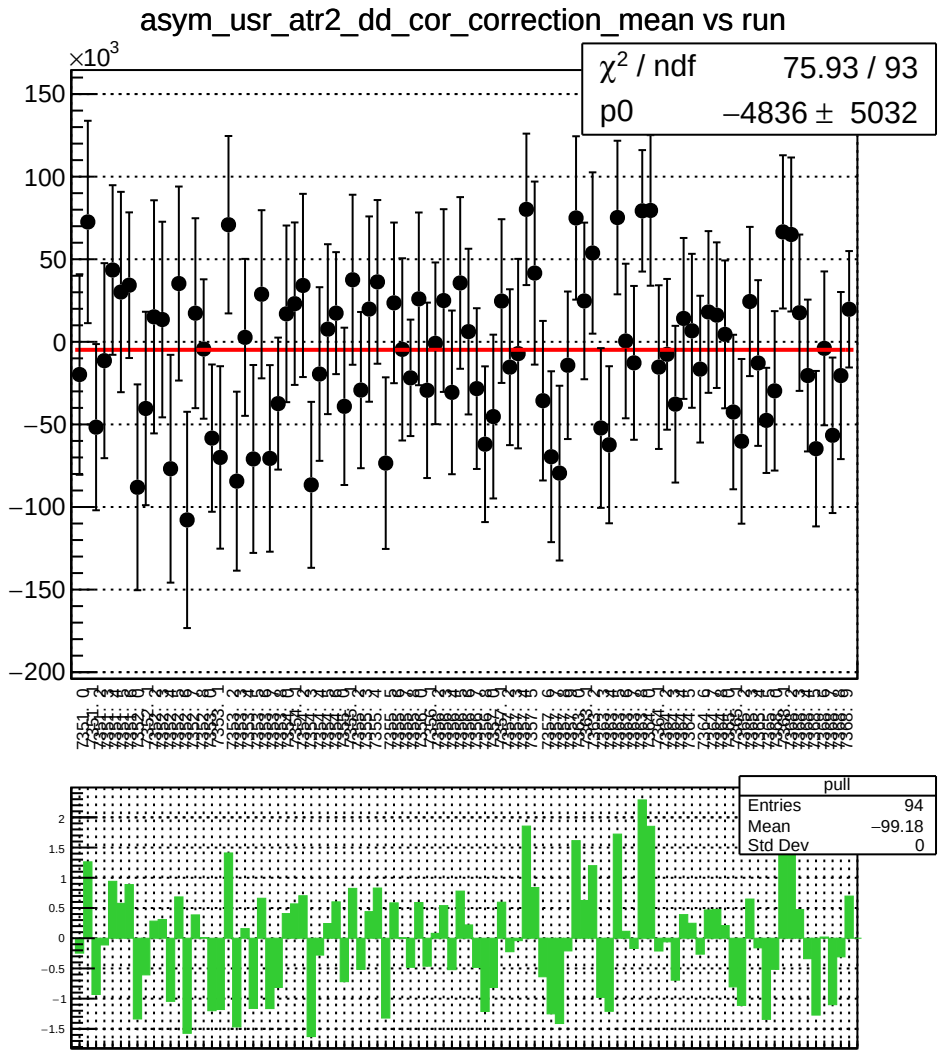

pull1D
Entries 94
Mean −0.013
Std Dev 0.8987
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

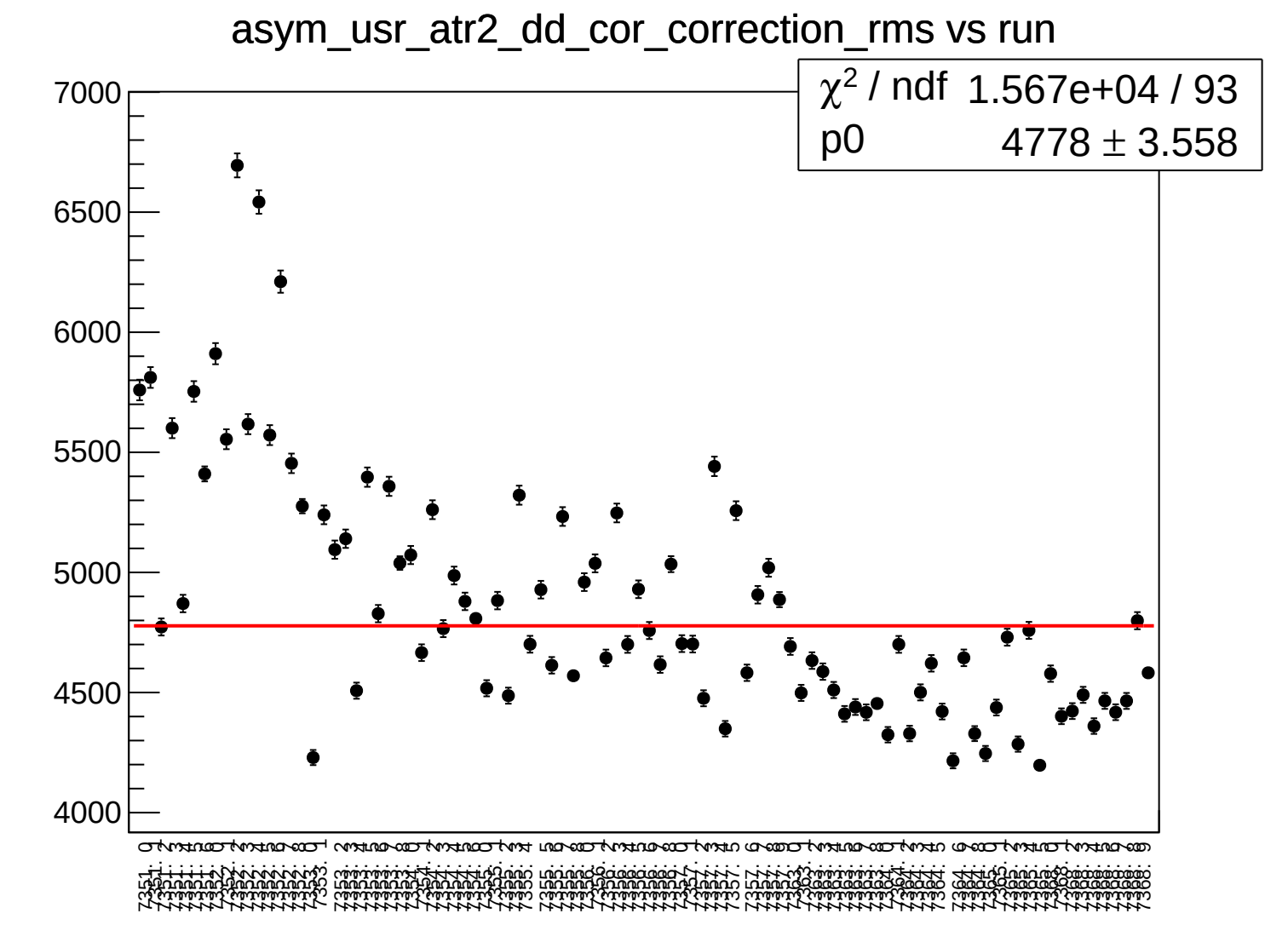

asym_usr_atr2_dd_reg_correction_rms vs run
χ^2 / ndf 1.567e+04 / 93
p0 4778 ± 3.558
7000
6500
6000
5500
5000
4500
4000

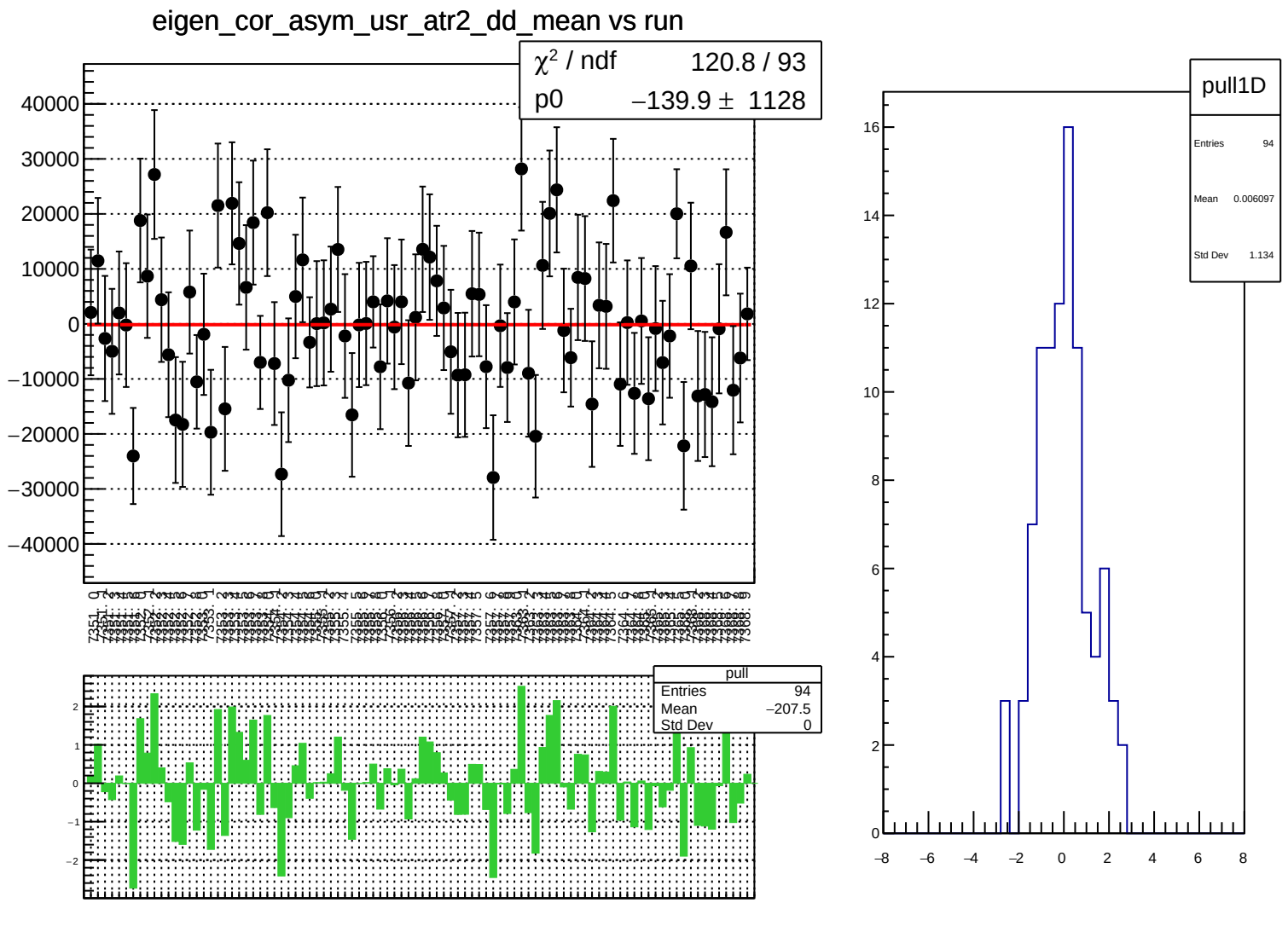

cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 120.8 / 93
p0 −139.9 ± 1128
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 94
Mean −207.5
Std Dev 0
2
1
0
−1
−2

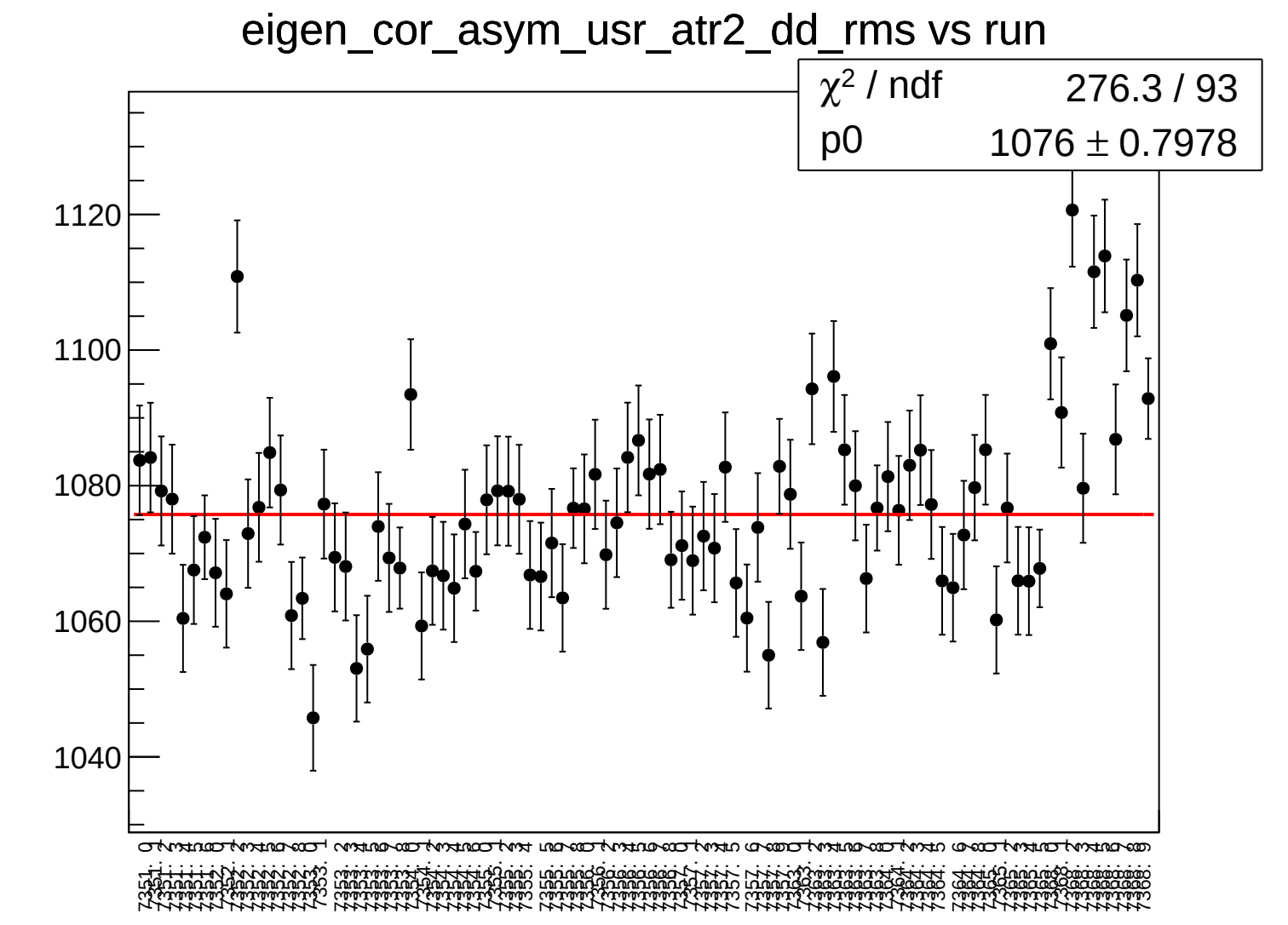

pull1D
Entries 94
Mean 0.006097
Std Dev 1.134
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

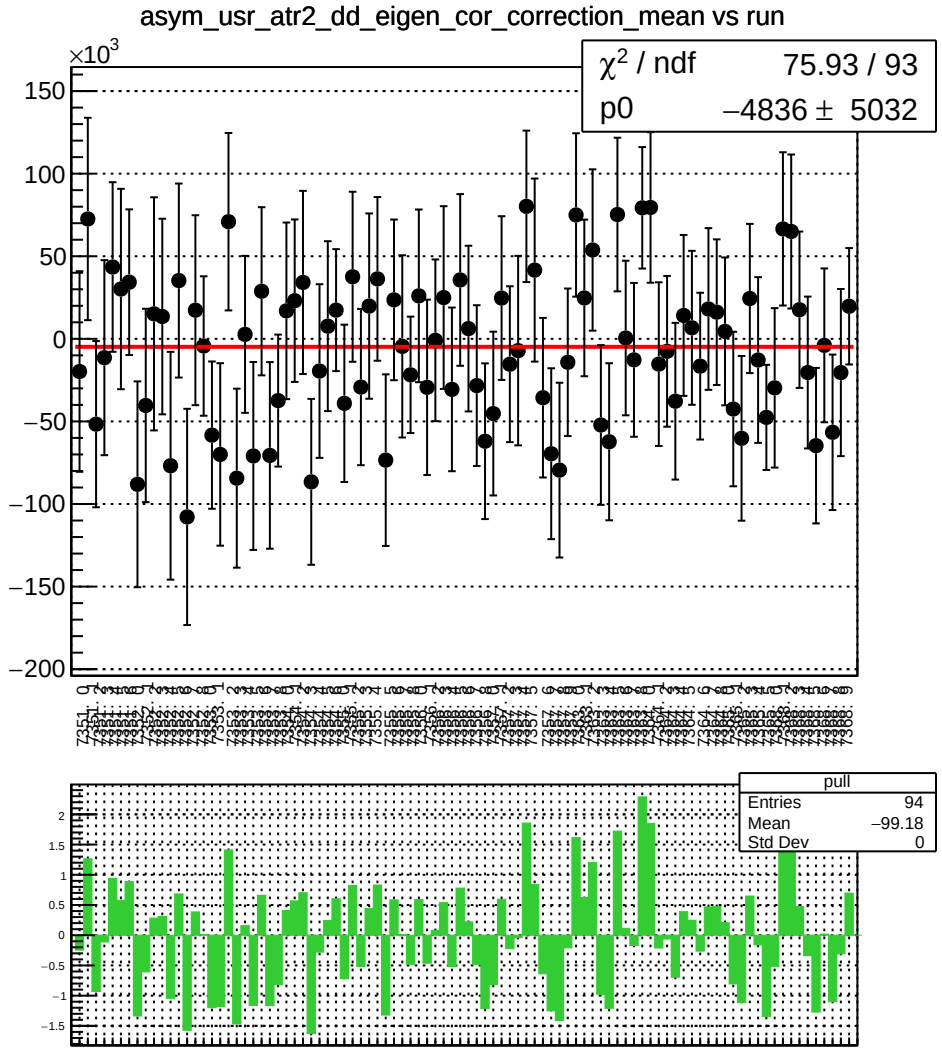

cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 276.3 / 93
p0 1076 ± 0.7978
1120
1100
1080
1060
1040

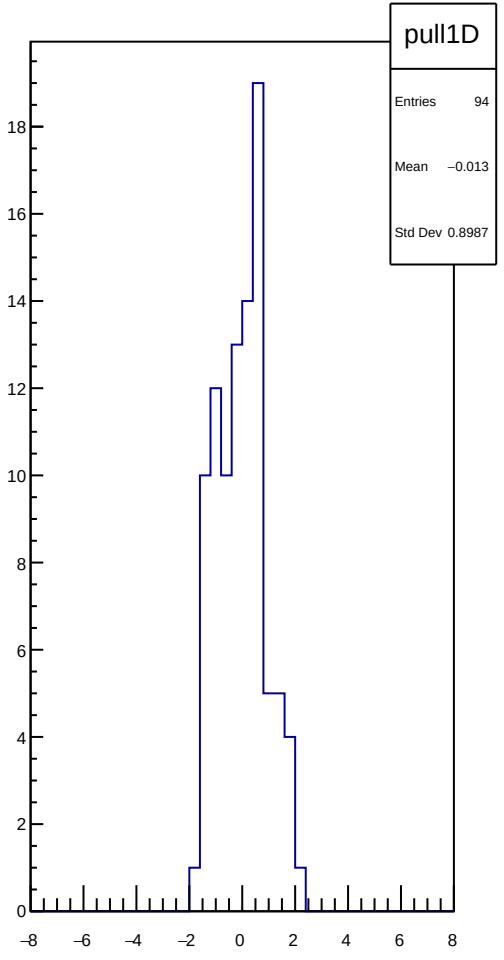

asym_usr_atr2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 75.93 / 93
p0 −4836 ± 5032
150
100
50
0
−50
−100
−150
−200
pull
Entries 94
Mean −99.18
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 94
Mean −0.013
Std Dev 0.8987
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

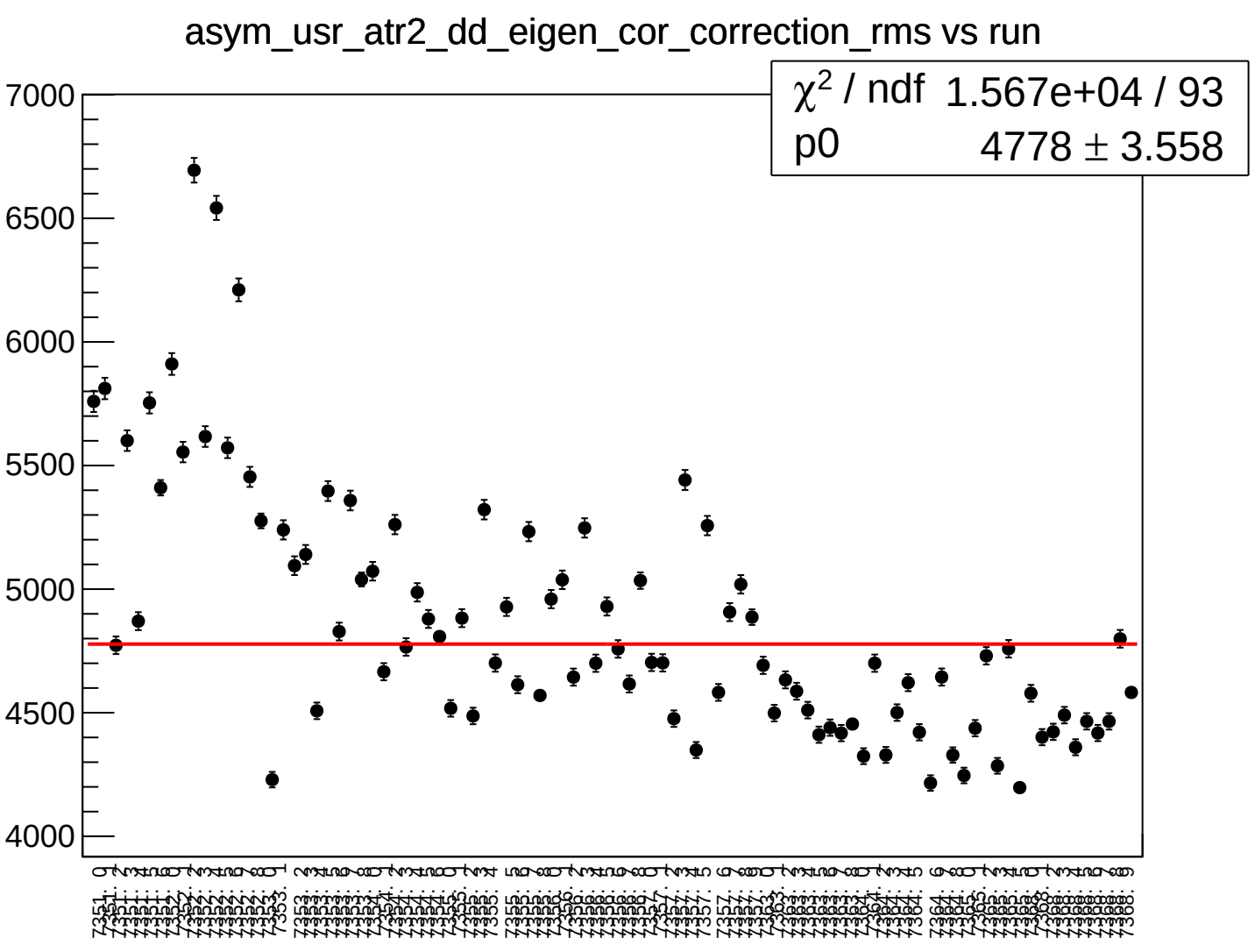

asym_usr_atr2_dd_cor_correction_rms vs run
χ² / ndf 1.567e+04 / 93
p0 4778 ± 3.558
7000
6500
6000
5500
5000
4500
4000

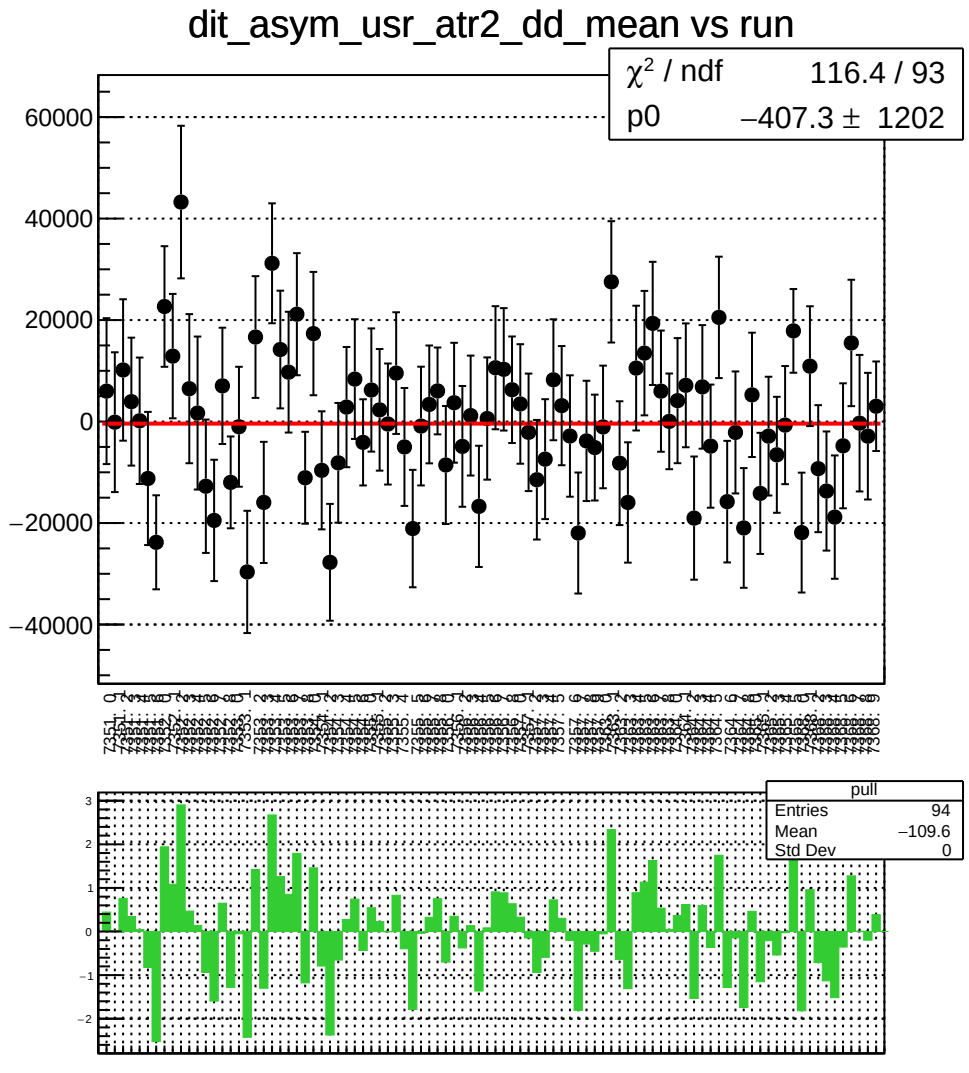

eigen_cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 120.8 / 93
p0 −139.9 ± 1128
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 94
Mean −207.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.006097
Std Dev 1.134
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

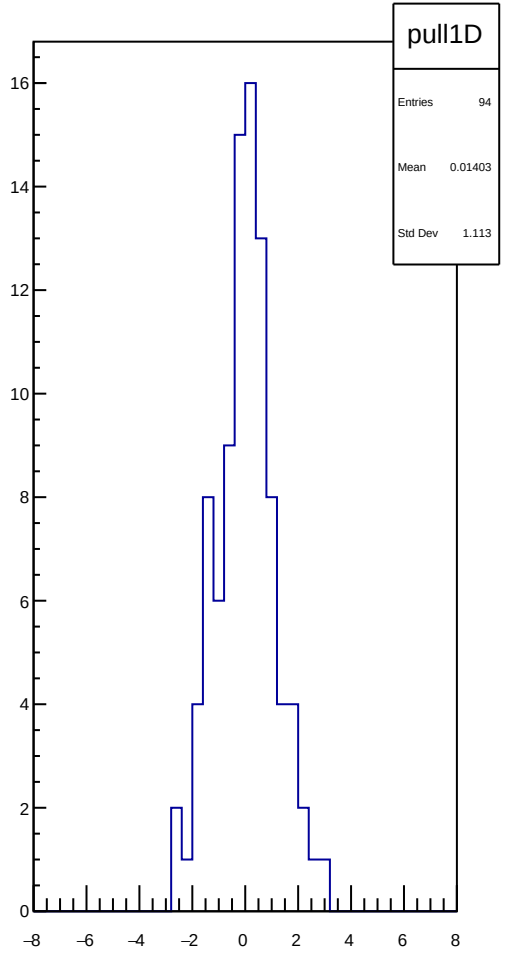

eigen_cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 276.3 / 93
p0 1076 ± 0.7978
1120
1100
1080
1060
1040

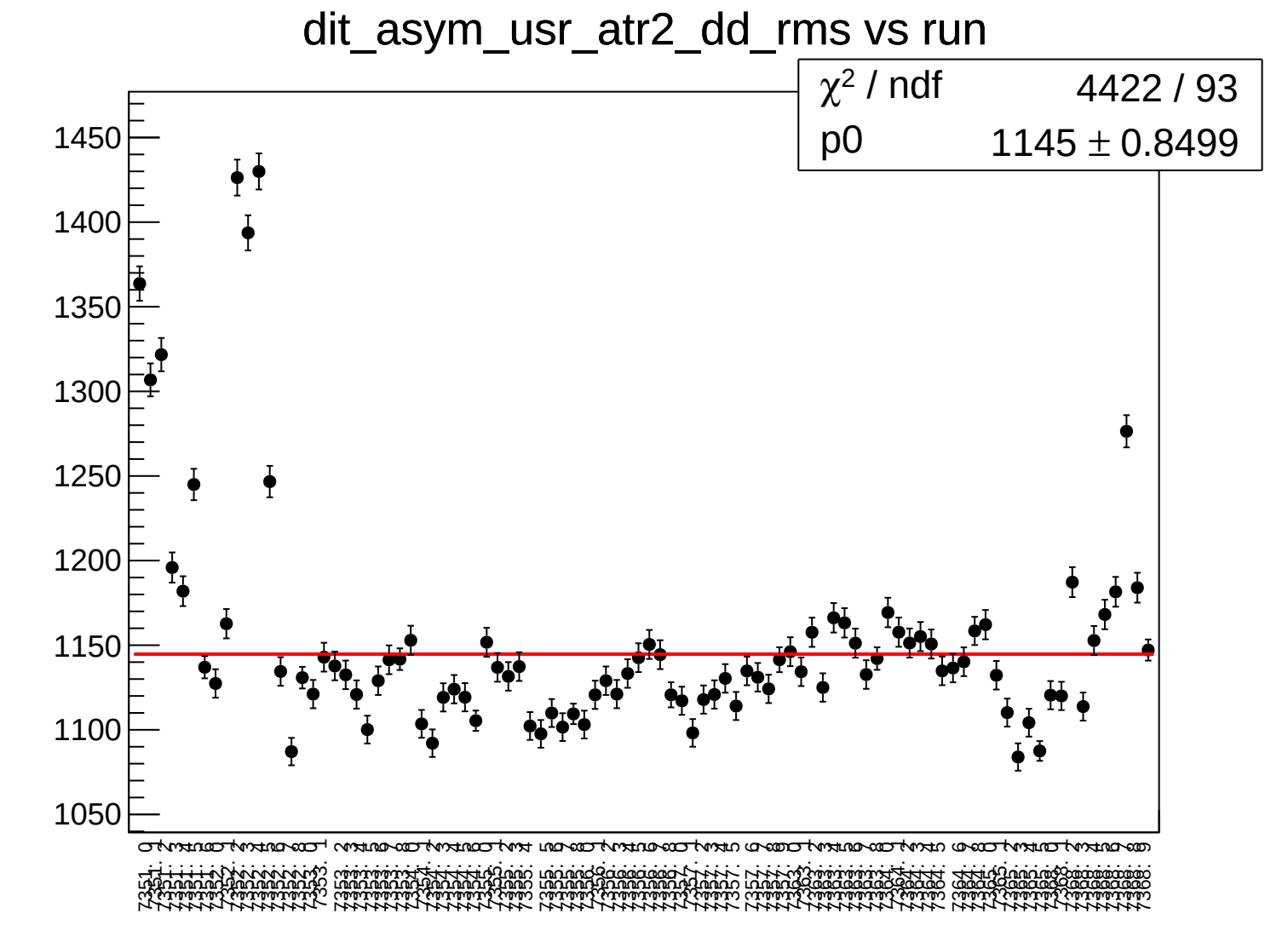

asym_usr_atr2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 75.93 / 93
p0 −4836 ± 5032
150
100
50
0
−50
−100
−150
−200
pull
Entries 94
Mean −99.18
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

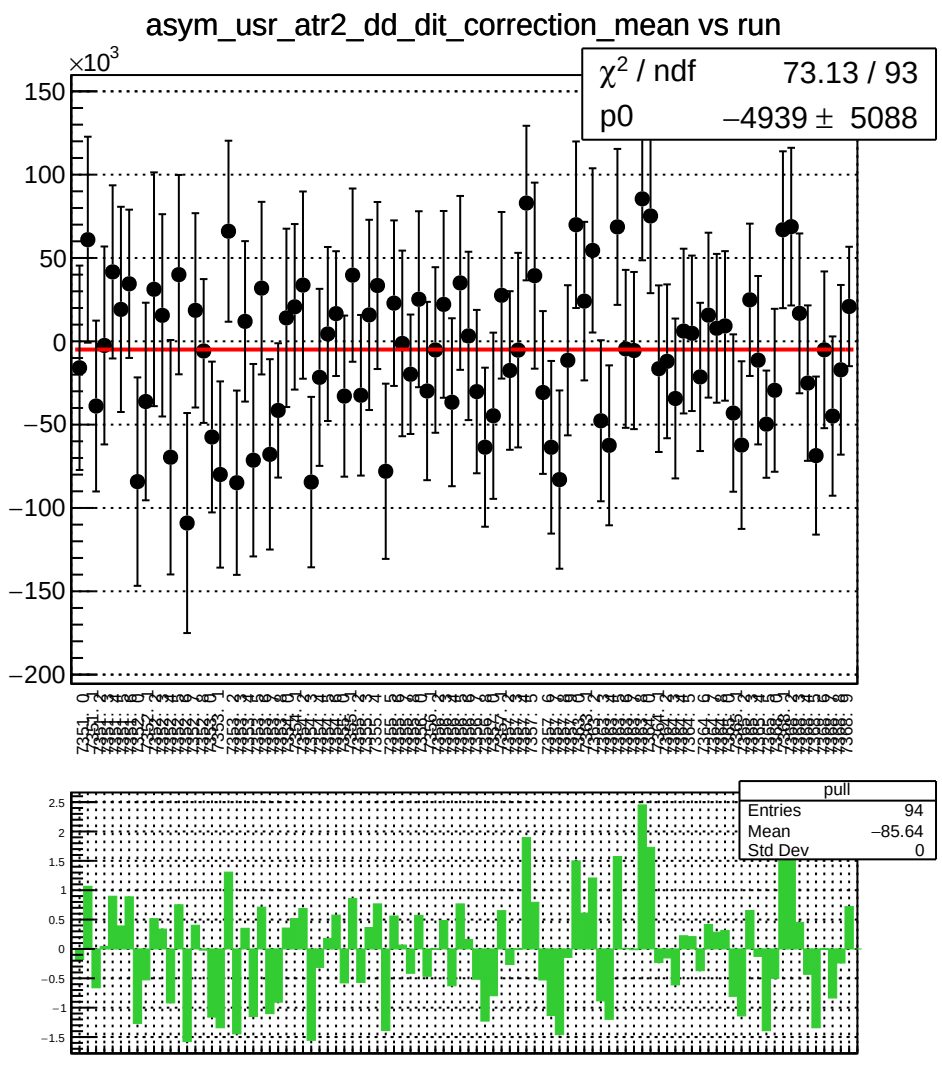

pull1D
Entries 94
Mean −0.013
Std Dev 0.8987
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

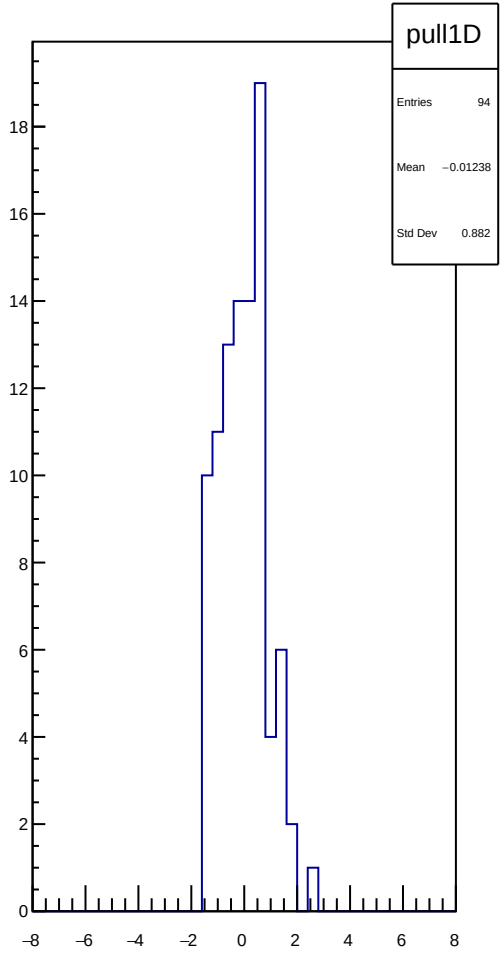

asym_usr_atr2_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.567e+04 / 93
p0 4778 ± 3.558
7000
6500
6000
5500
5000
4500
4000

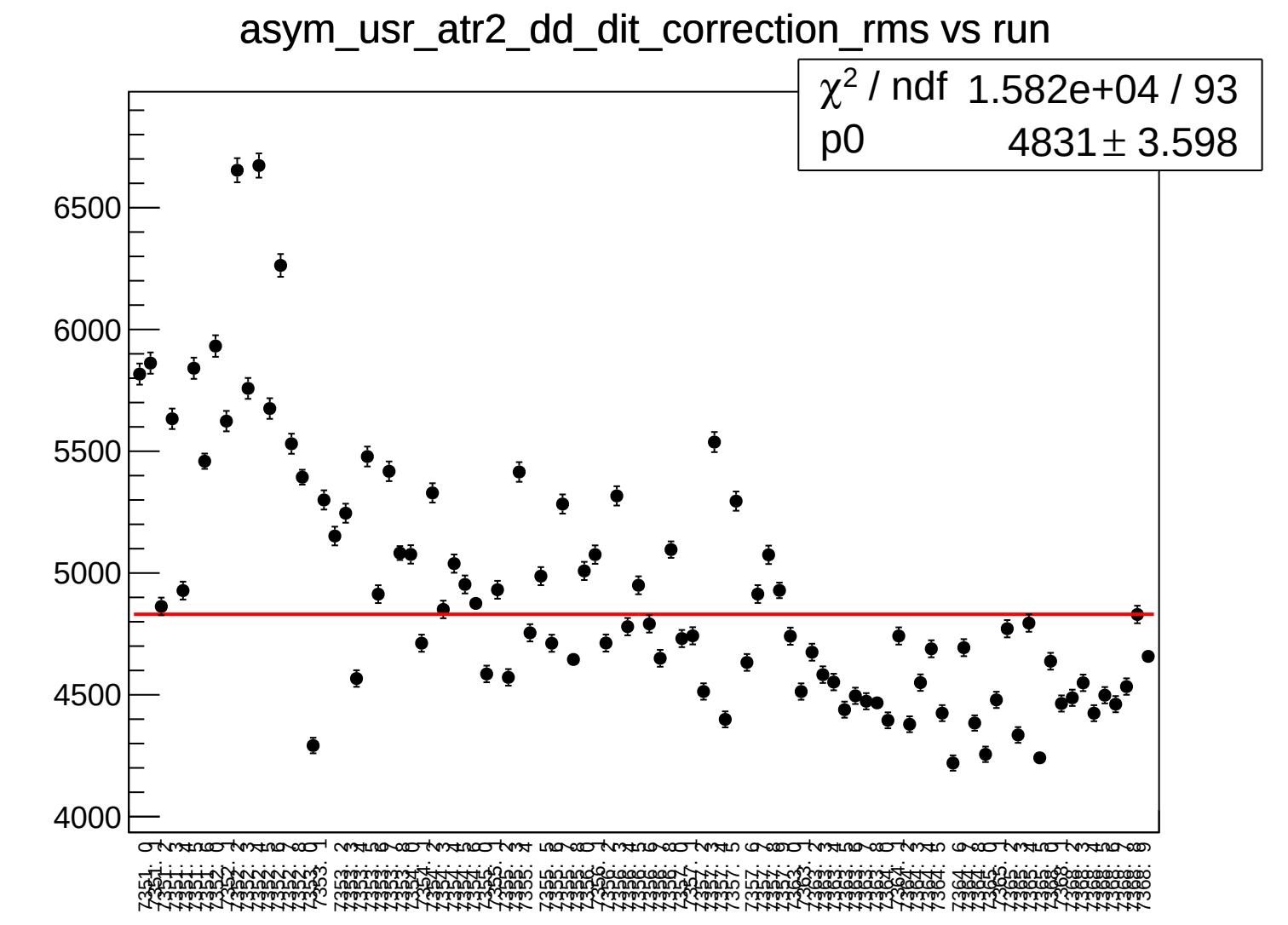

dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 116.4 / 93
p0 −407.3 ± 1202
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −109.6
Std Dev 0
3
2
1
0
−1
−2

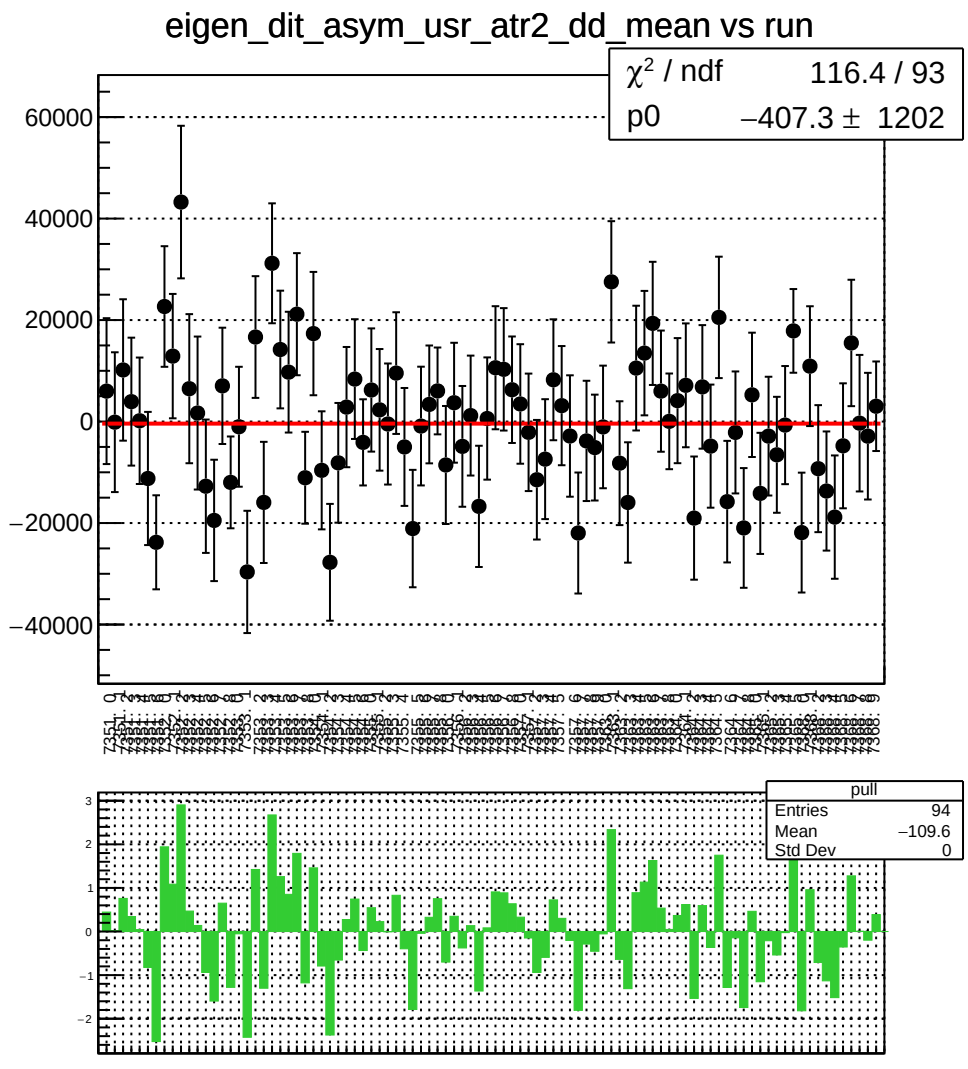

pull1D
Entries 94
Mean 0.01403
Std Dev 1.113
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

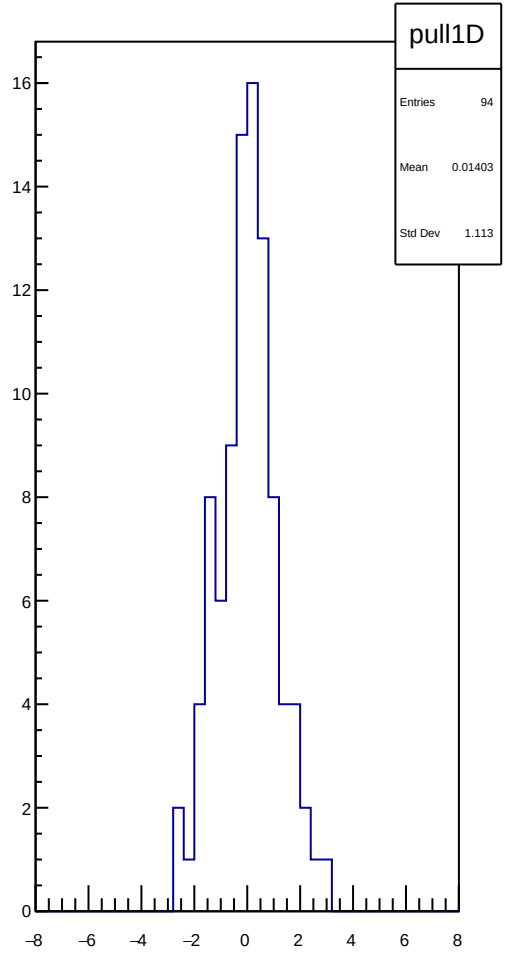

dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 4422 / 93
p0 1145 ± 0.8499
1450
1400
1350
1300
1250
1200
1150
1100
1050

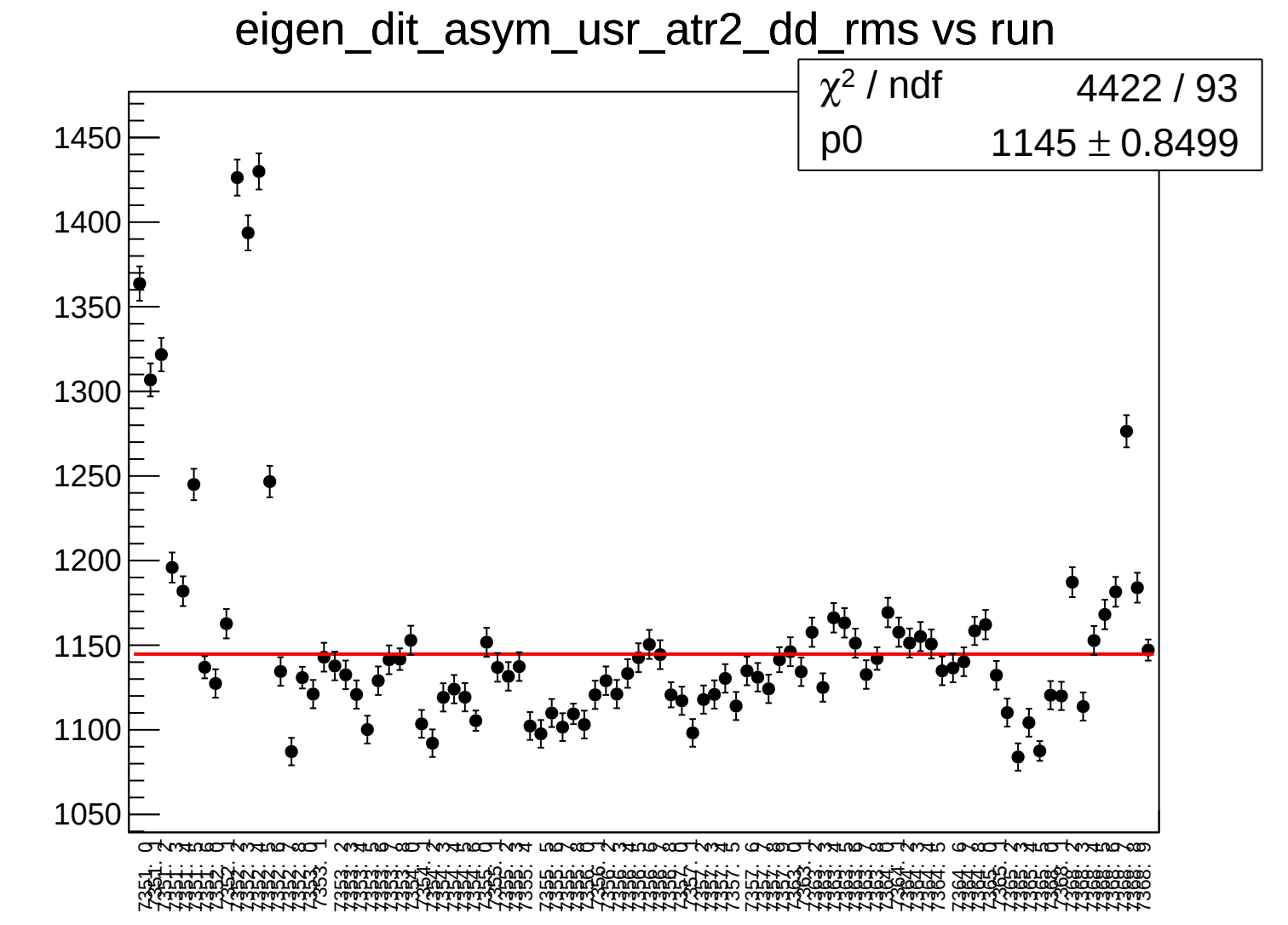

asym_usr_atr2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 73.13 / 93
p0 −4939 ± 5088
150
100
50
0
−50
−100
−150
−200
pull
Entries 94
Mean −85.64
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

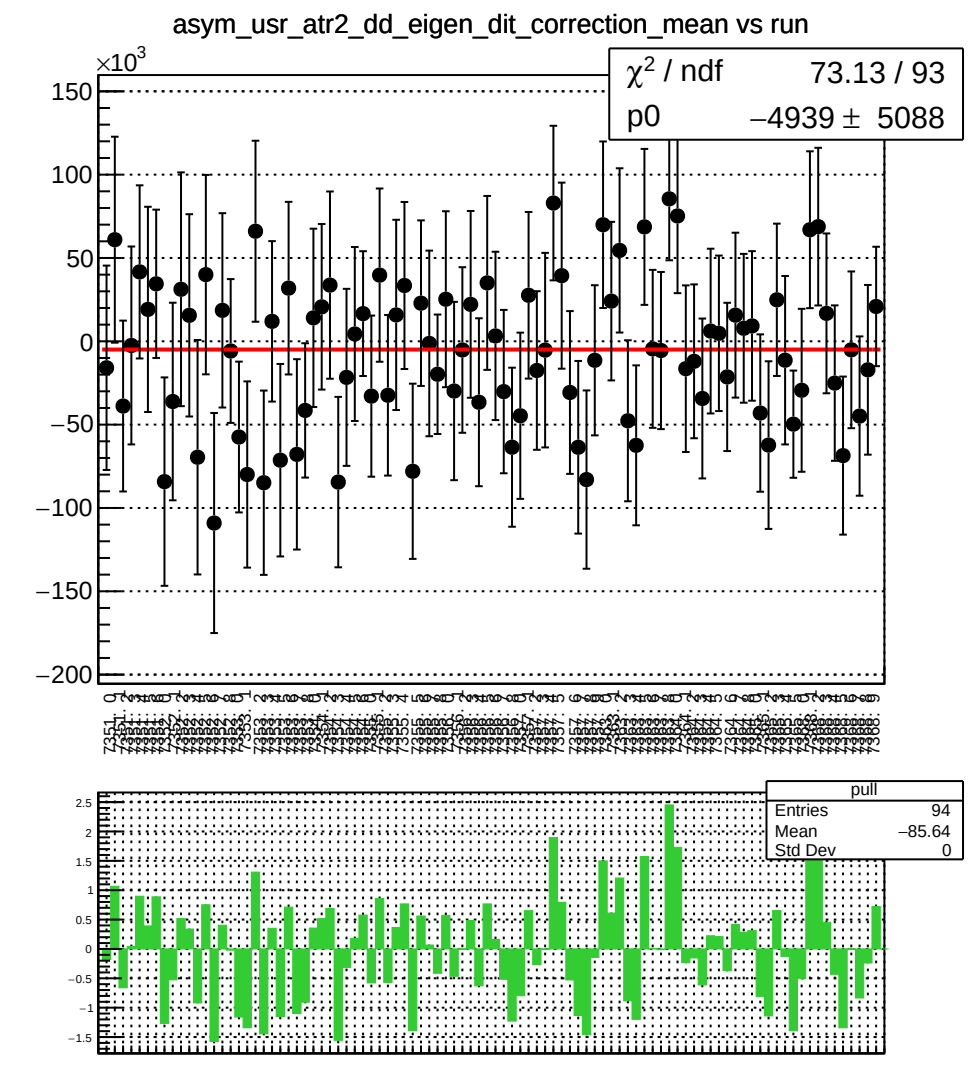

pull1D
Entries 94
Mean −0.01238
Std Dev 0.882
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

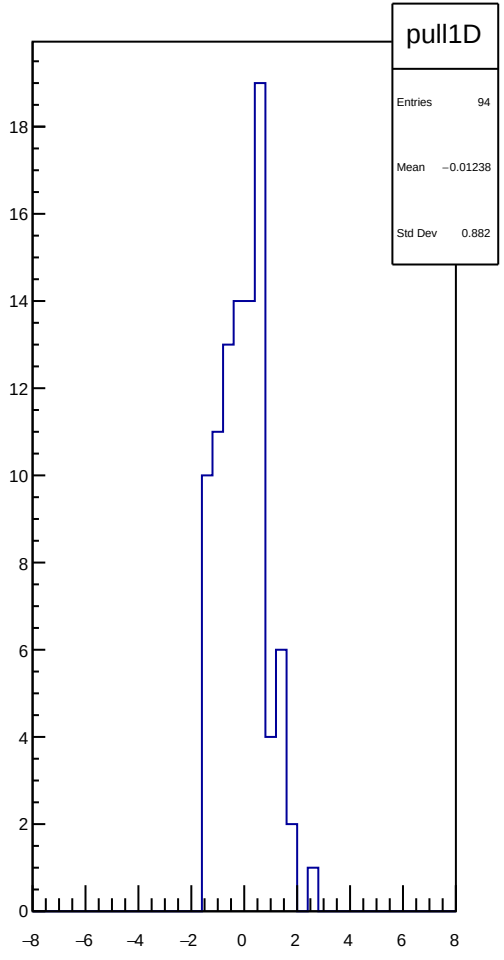

asym_usr_atr2_dd_dit_correction_rms vs run
χ² / ndf 1.582e+04 / 93
p0 4831 ± 3.598
6500
6000
5500
5000
4500
4000

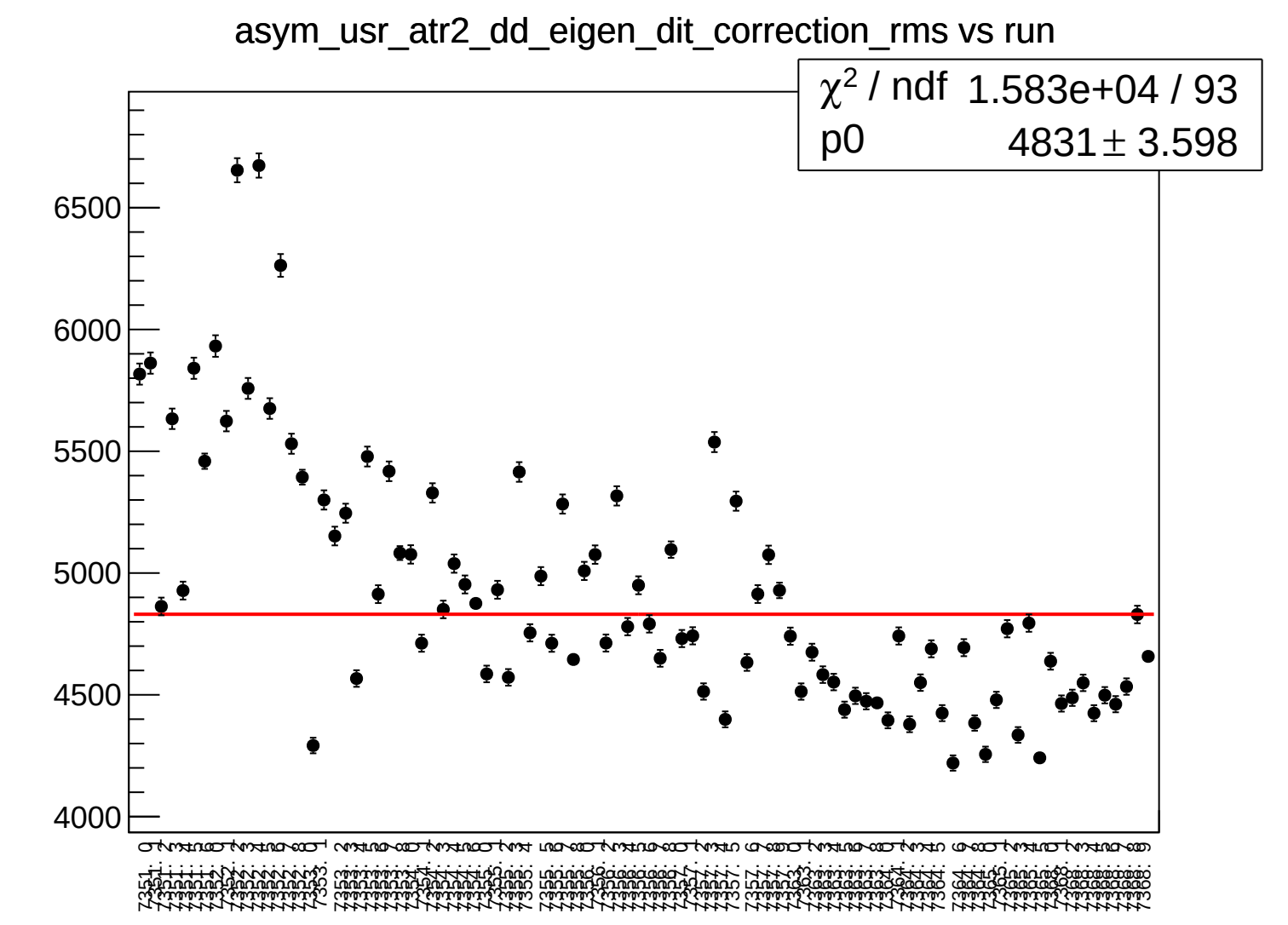

eigen_dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 116.4 / 93
p0 −407.3 ± 1202
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −109.6
Std Dev 0
3
2
1
0
−1
−2

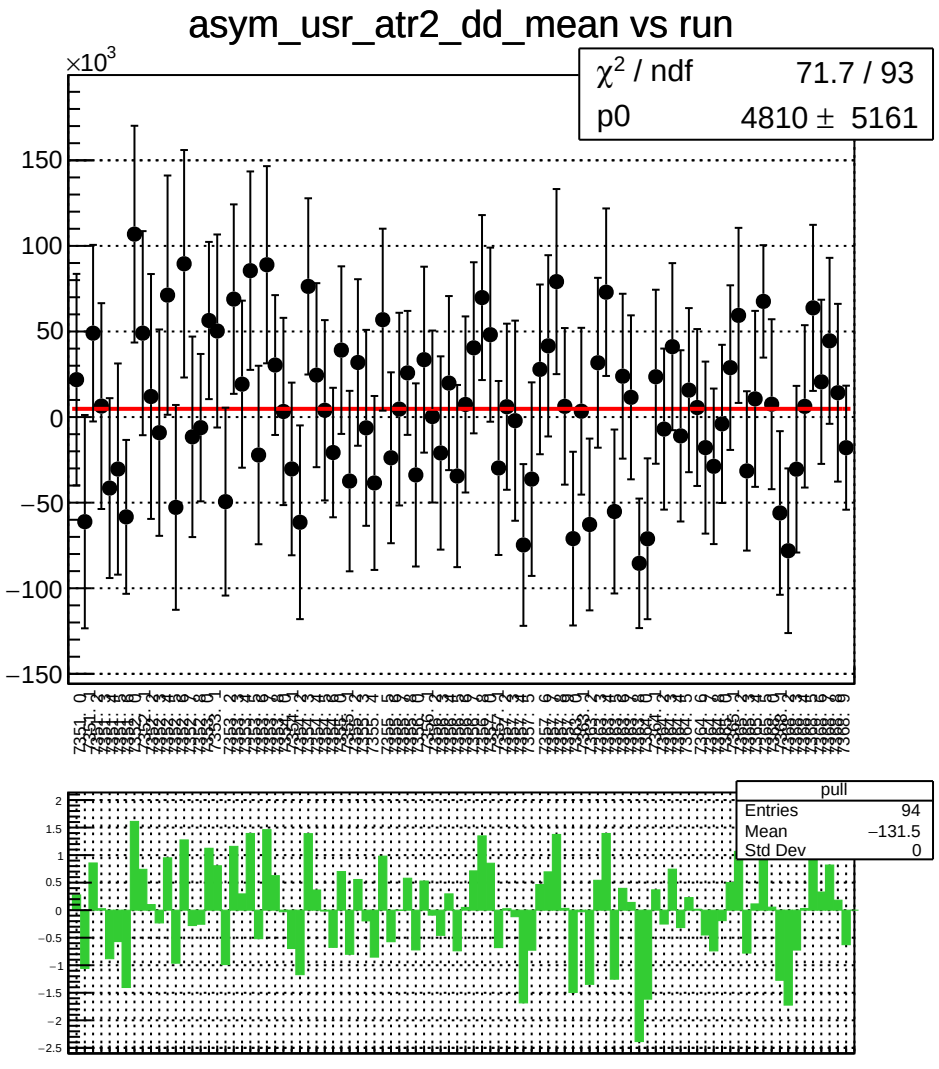

pull1D
Entries 94
Mean 0.01403
Std Dev 1.113
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

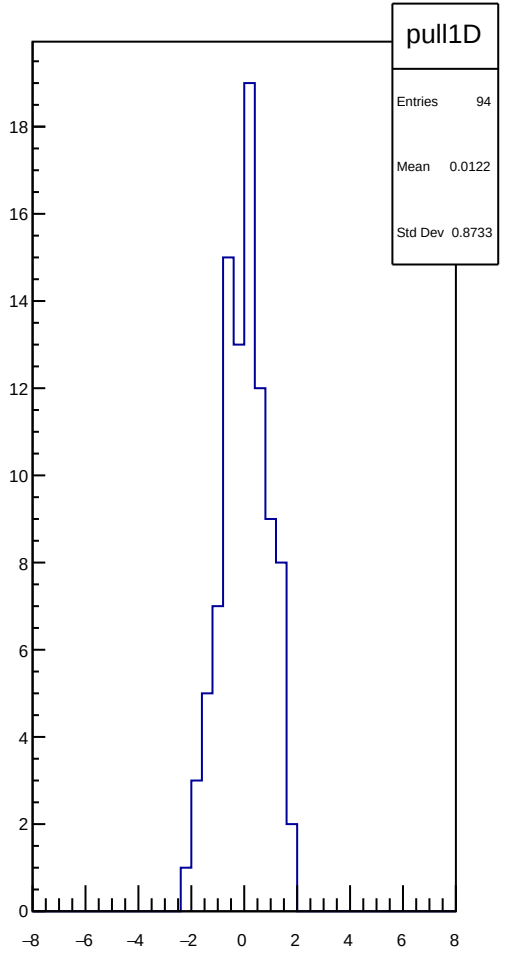

eigen_dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 4422 / 93
p0 1145 ± 0.8499
1450
1400
1350
1300
1250
1200
1150
1100
1050

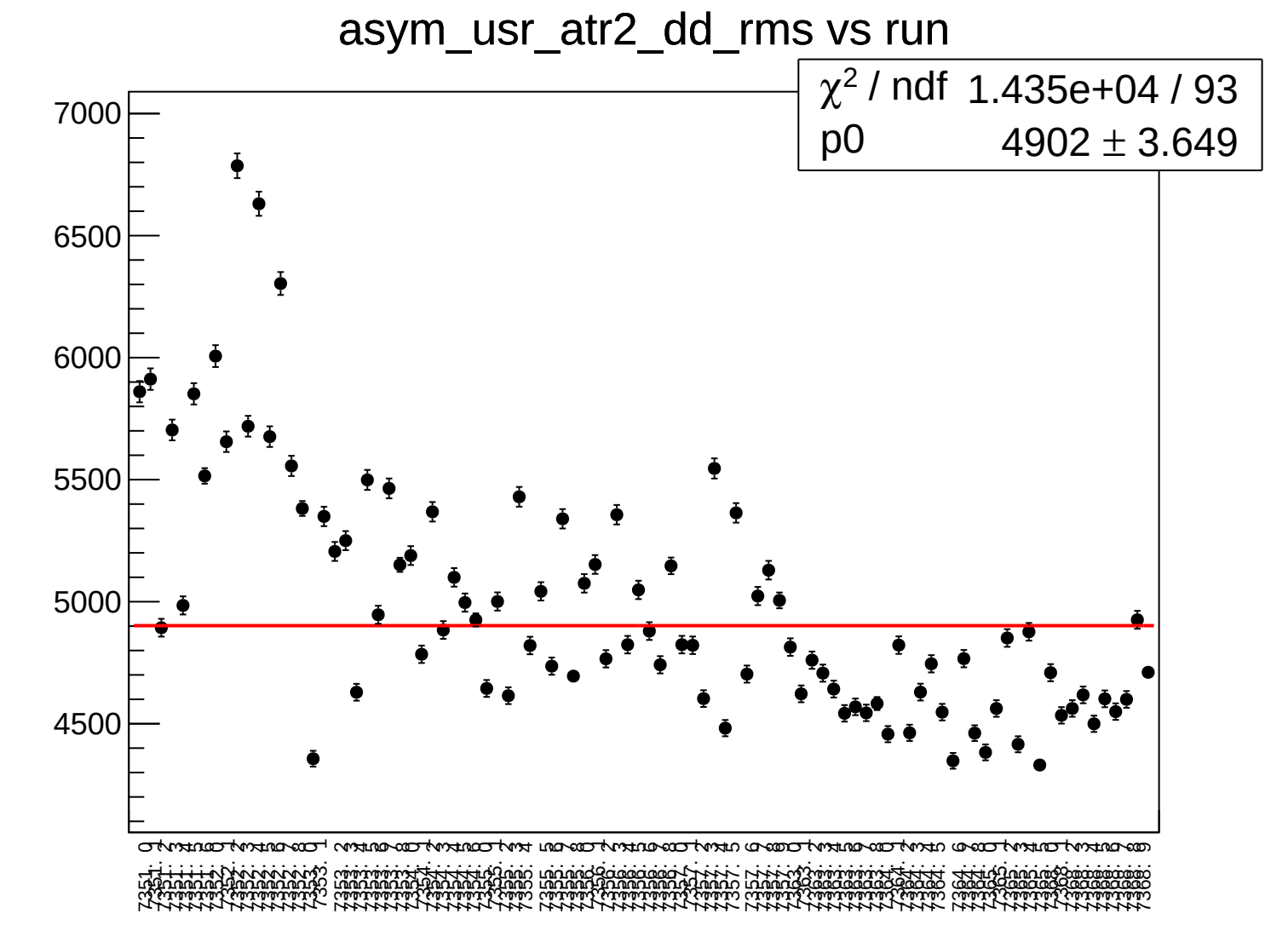

asym_usr_atr2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 73.13 / 93
p0 −4939 ± 5088
150
100
50
0
−50
−100
−150
−200
pull
Entries 94
Mean −85.64
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

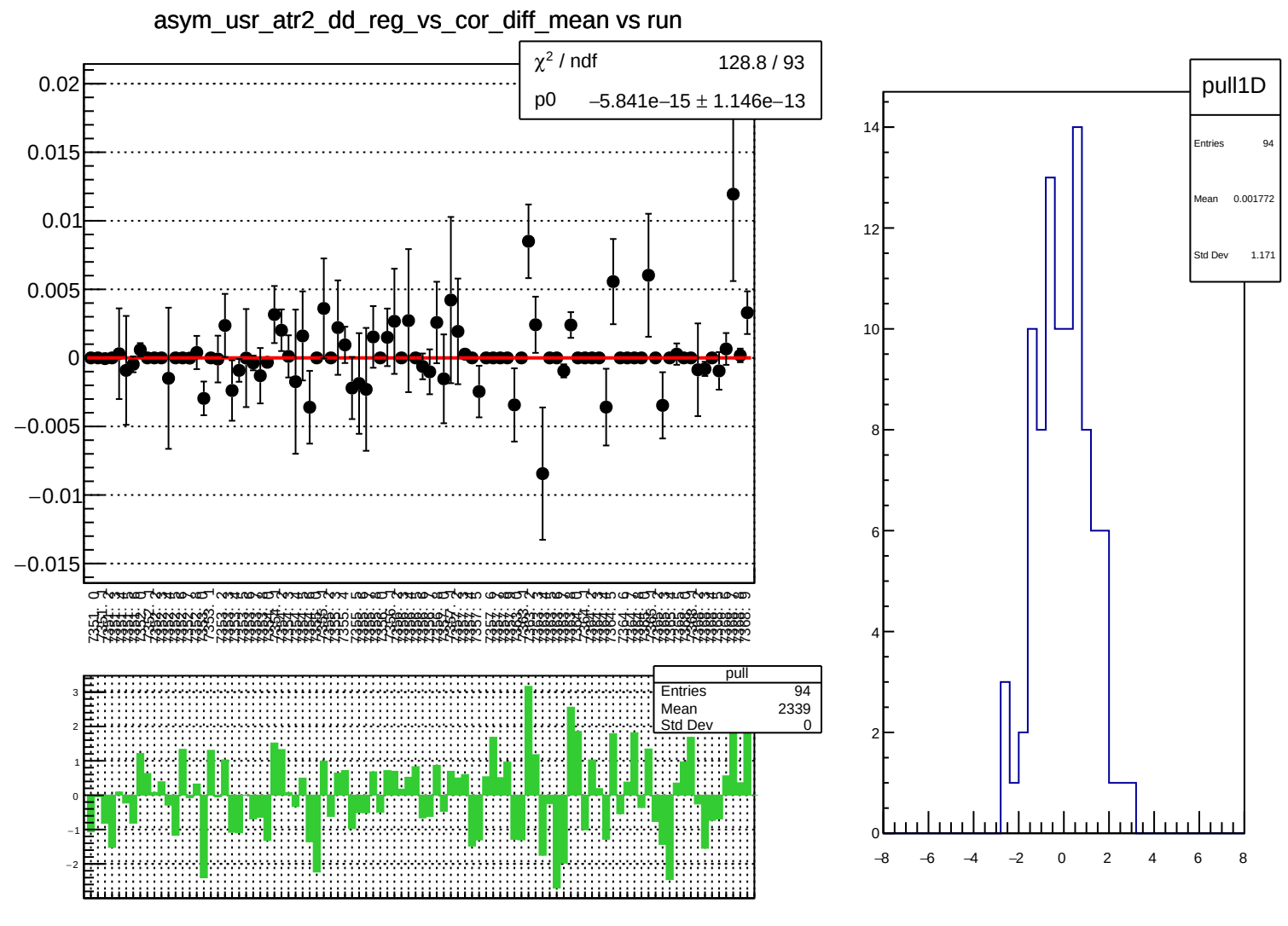

pull1D
Entries 94
Mean −0.01238
Std Dev 0.882
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

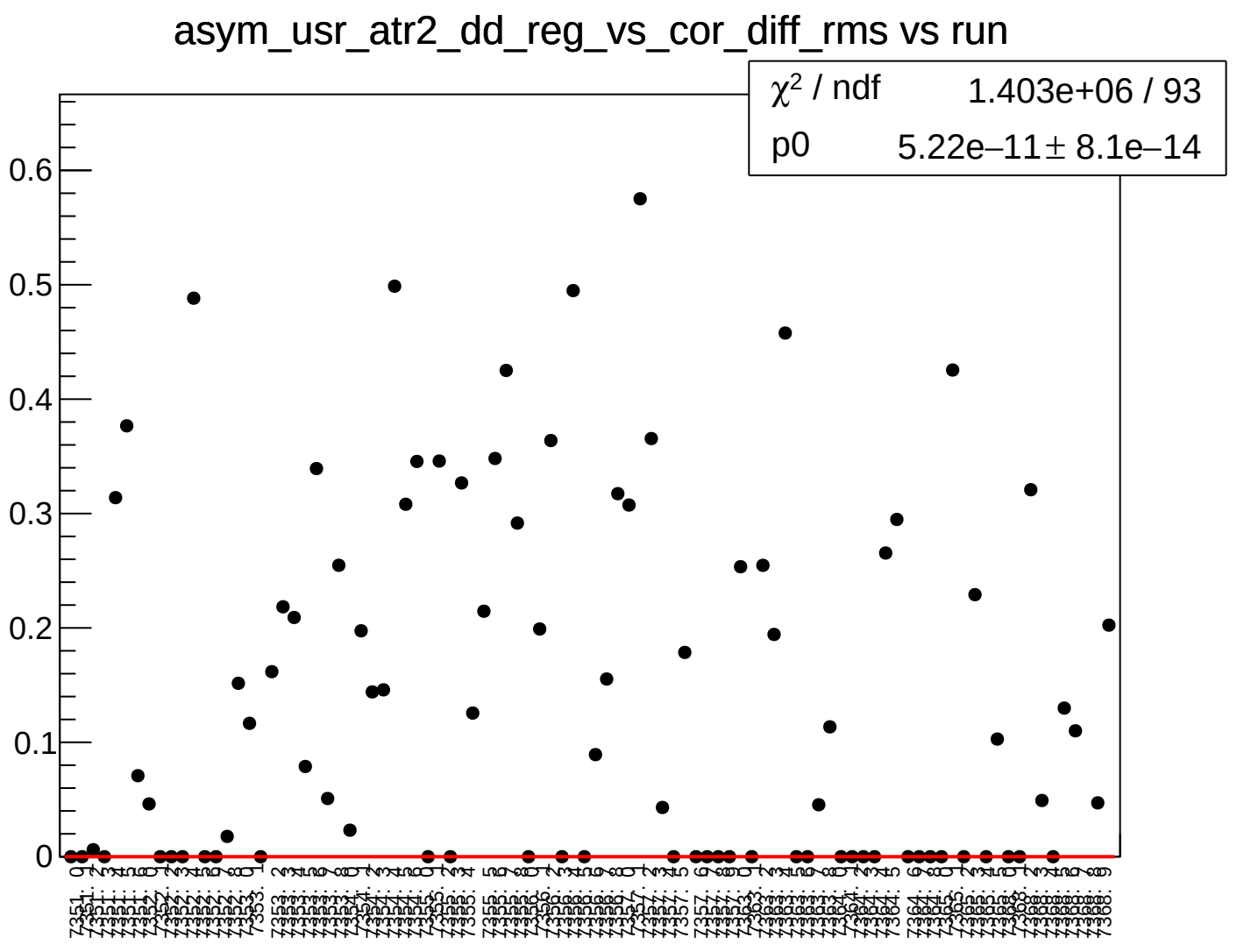

asym_usr_atr2_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.583e+04 / 93
p0 4831 ± 3.598
6500
6000
5500
5000
4500
4000

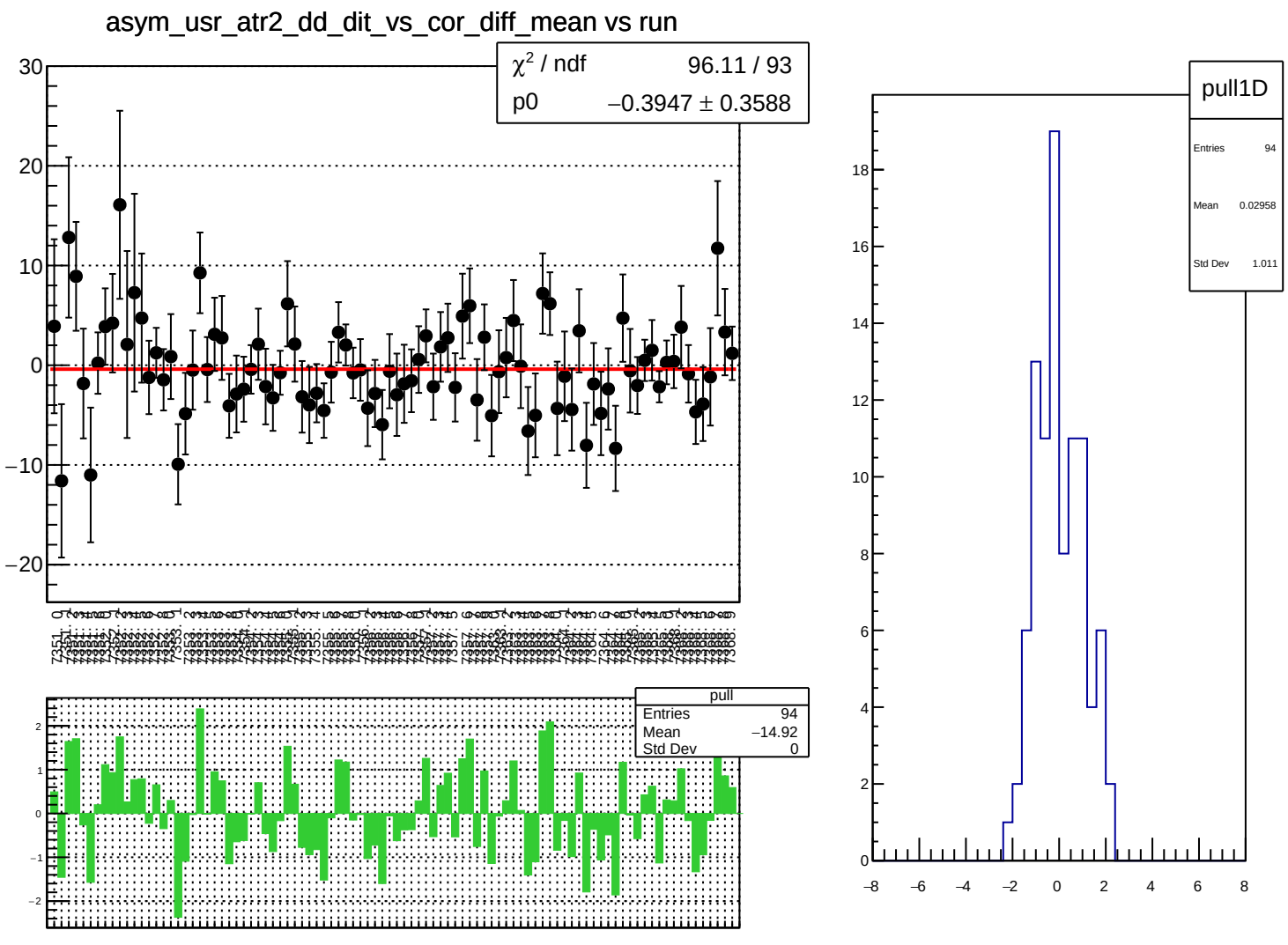

asym_usr_atr2_dd_mean vs run
×10^3
χ^2 / ndf 71.7 / 93
p0 4810 ± 5161
150
100
50
0
−50
−100
−150
pull
Entries 94
Mean −131.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

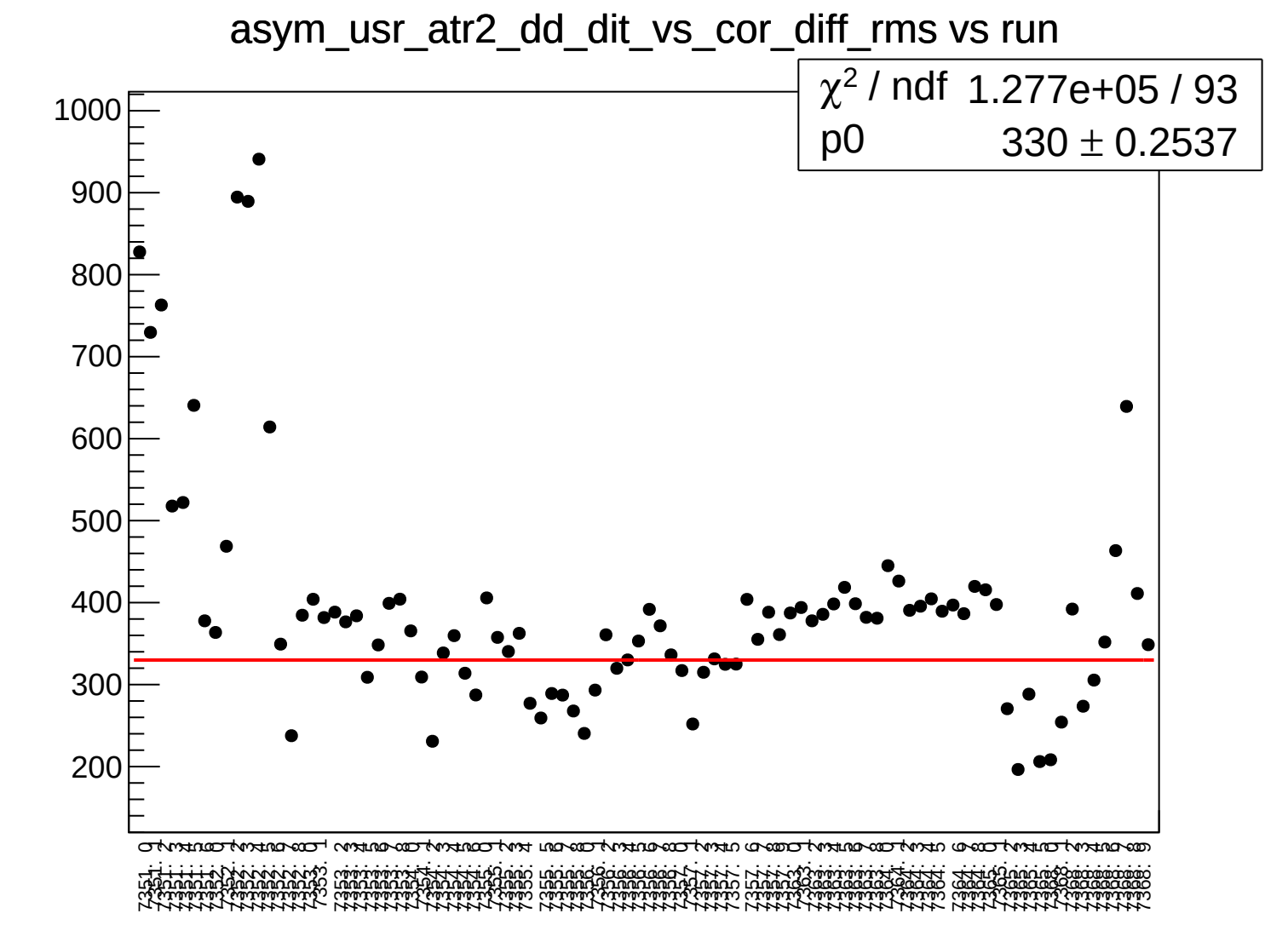

pull1D
Entries 94
Mean 0.0122
Std Dev 0.8733
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

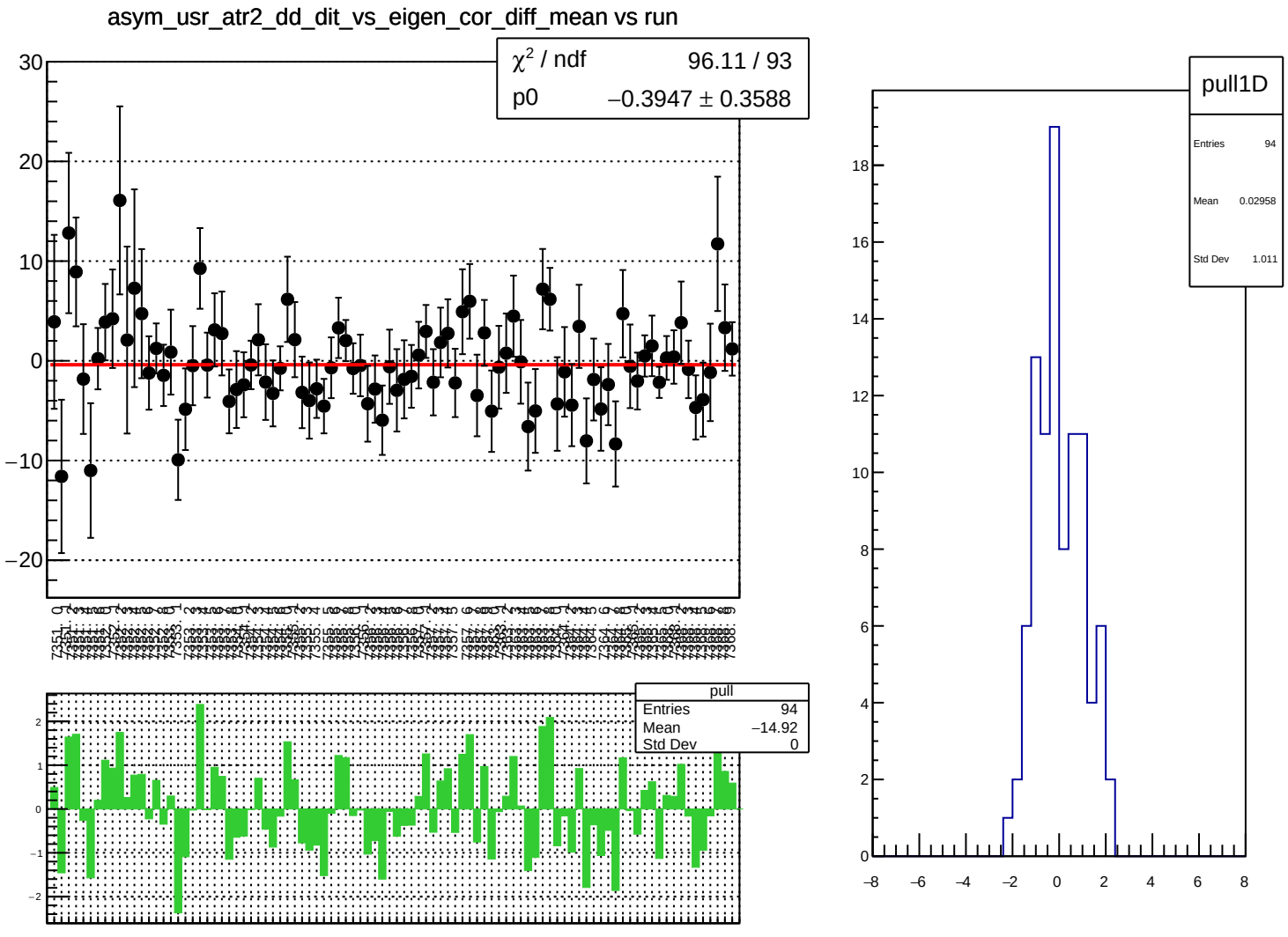

asym_usr_atr2_dd_rms vs run
χ² / ndf 1.435e+04 / 93
p0 4902 ± 3.649
7000
6500
6000
5500
5000
4500

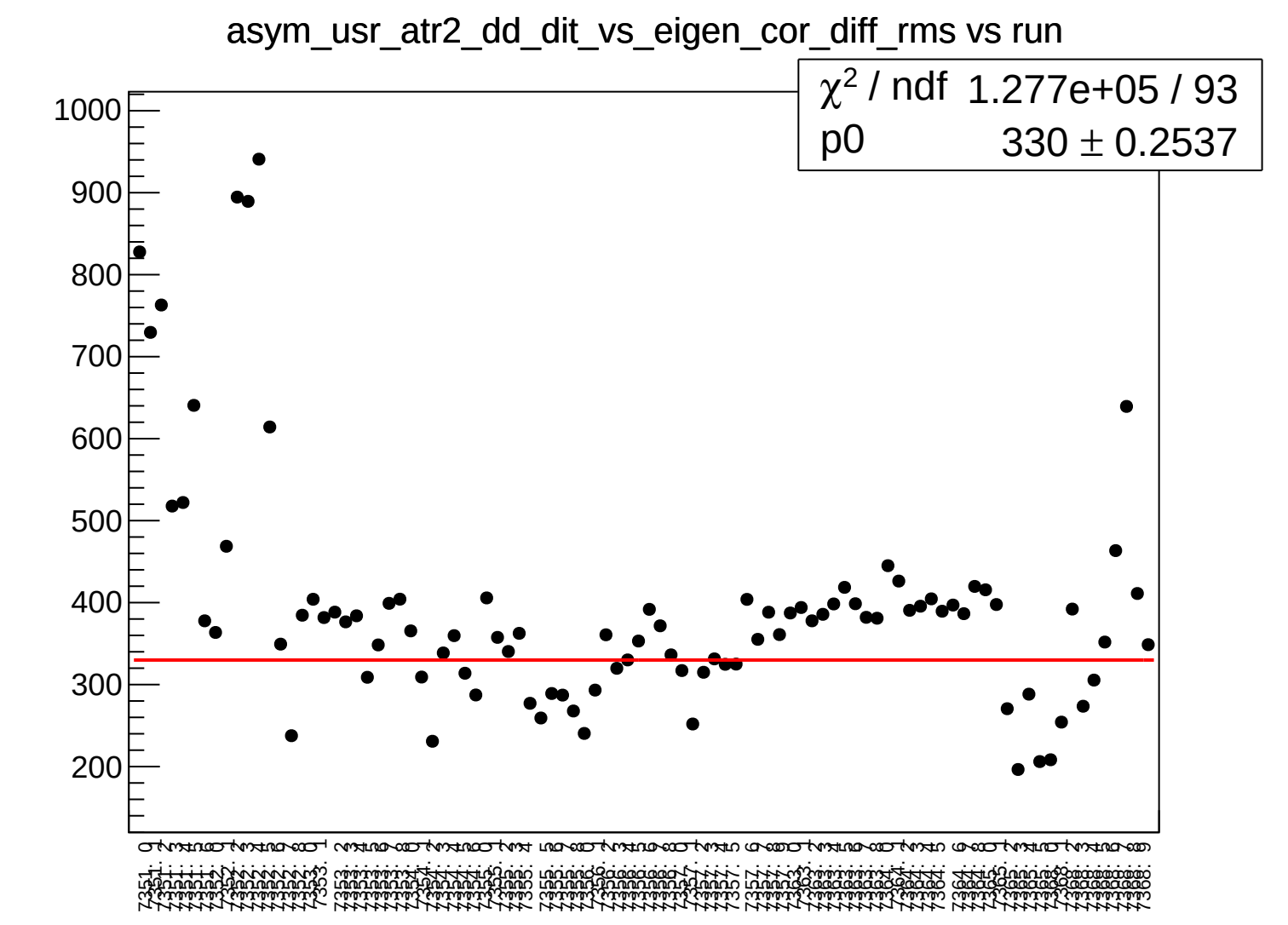

asym_usr_atr2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 128.8 / 93
p0 −5.841e−15 ± 1.146e−13
pull
Entries 94
Mean 2339
Std Dev 0
pull1D
Entries 94
Mean 0.001772
Std Dev 1.171

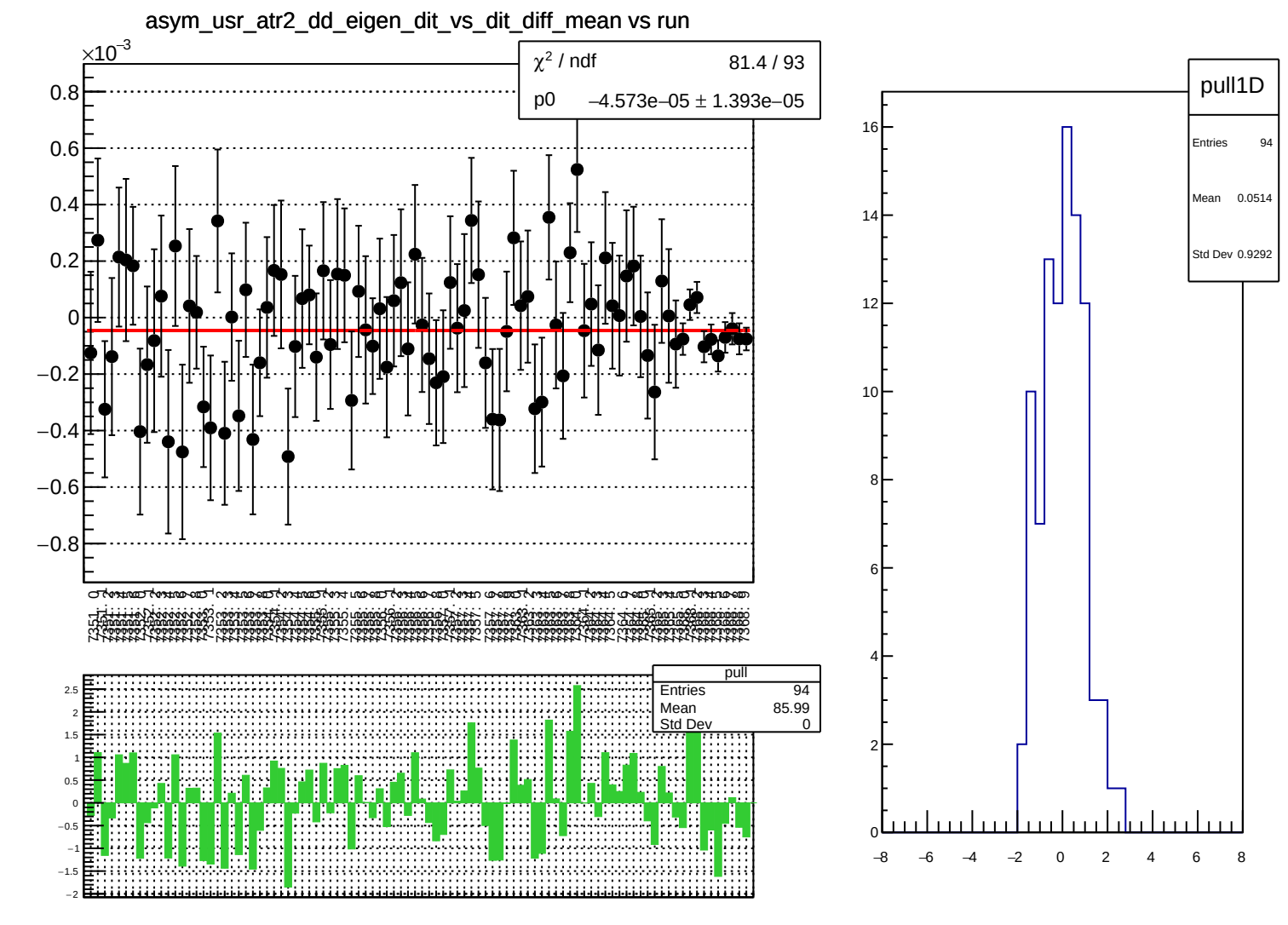

asym_usr_atr2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.403e+06 / 93
p0 5.22e−11 ± 8.1e−14
0.6
0.5
0.4
0.3
0.2
0.1
0

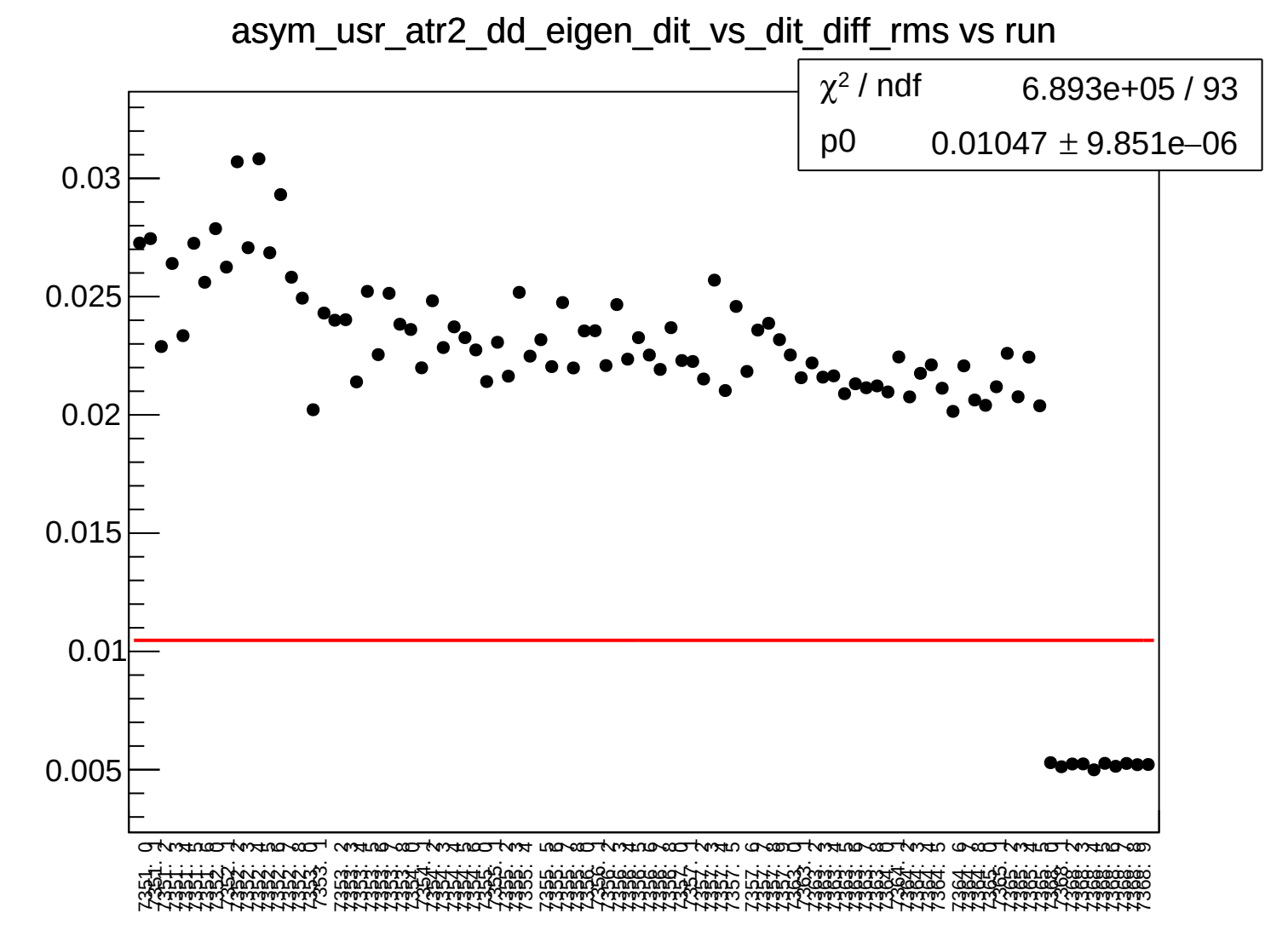

asym_usr_atr2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 96.11 / 93
p0 −0.3947 ± 0.3588
pull
Entries 94
Mean −14.92
Std Dev 0
pull1D
Entries 94
Mean 0.02958
Std Dev 1.011

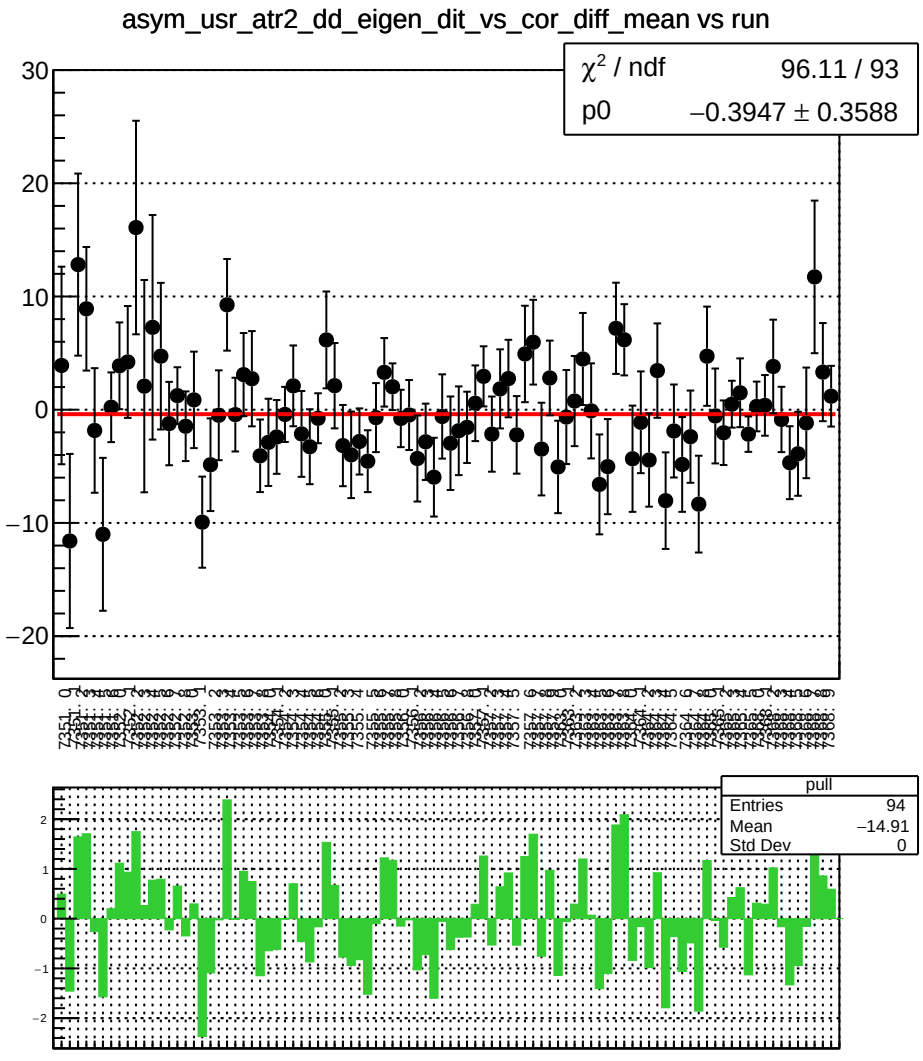

asym_usr_atr2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.277e+05 / 93
p0 330 ± 0.2537
1000
900
800
700
600
500
400
300
200

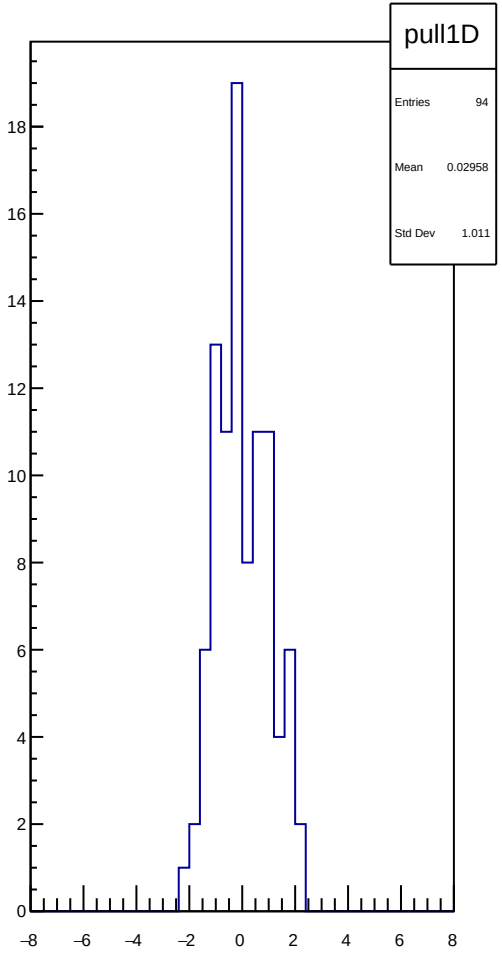

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.11 / 93
p0 −0.3947 ± 0.3588
pull
Entries 94
Mean −14.92
Std Dev 0
pull1D
Entries 94
Mean 0.02958
Std Dev 1.011

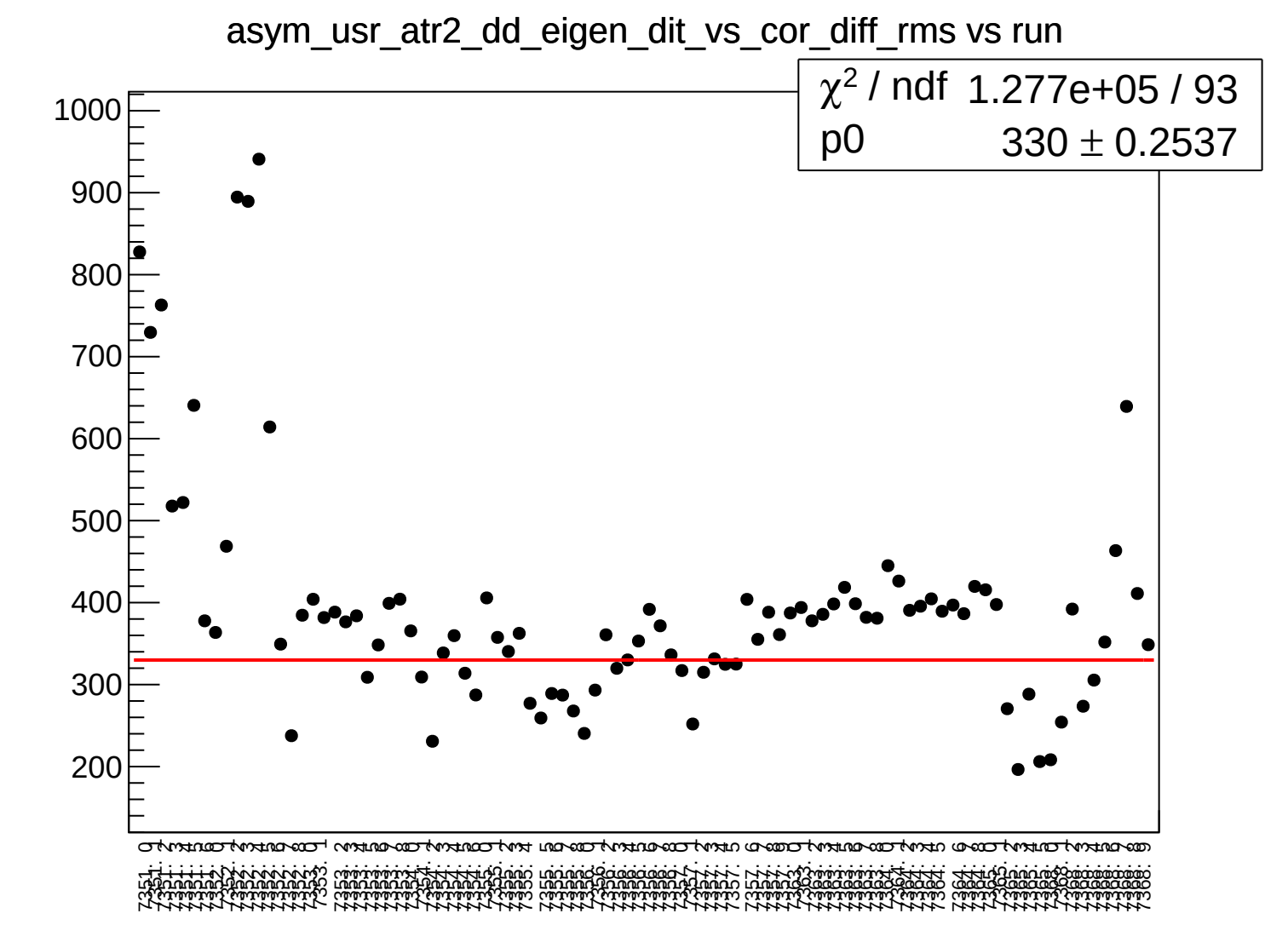

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.277e+05 / 93
p0 330 ± 0.2537
1000
900
800
700
600
500
400
300
200

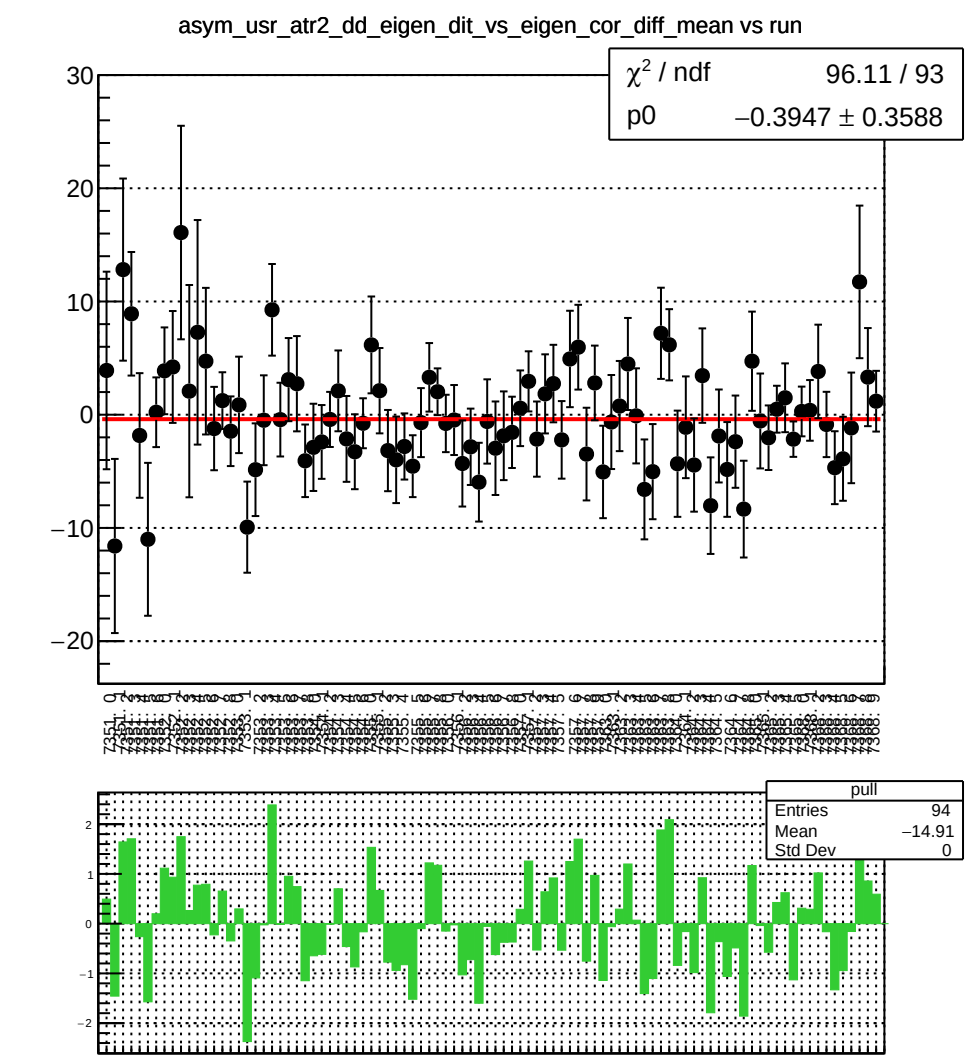

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 81.4 / 93
p0 −4.573e−05 ± 1.393e−05
pull
Entries 94
Mean 85.99
Std Dev 0
pull1D
Entries 94
Mean 0.0514
Std Dev 0.9292

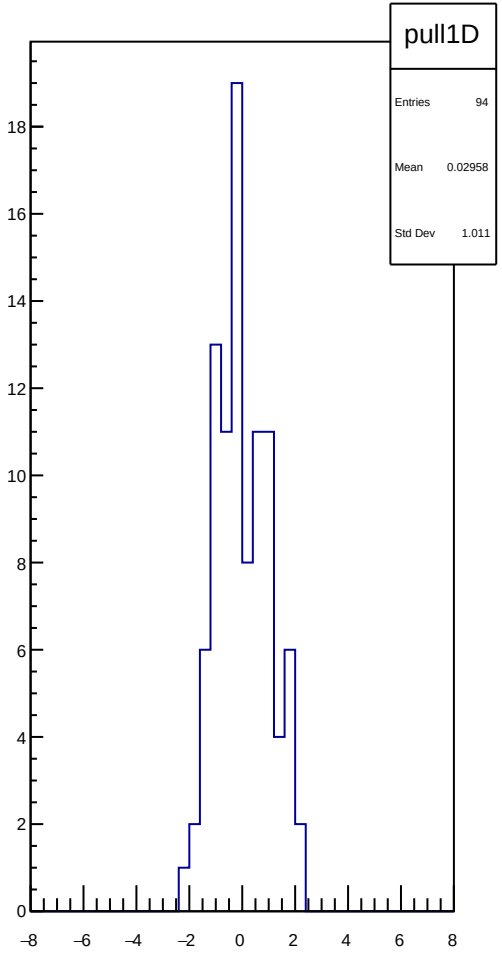

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.893e+05 / 93
p0 0.01047 ± 9.851e–06
0.03
0.025
0.02
0.015
0.01
0.005

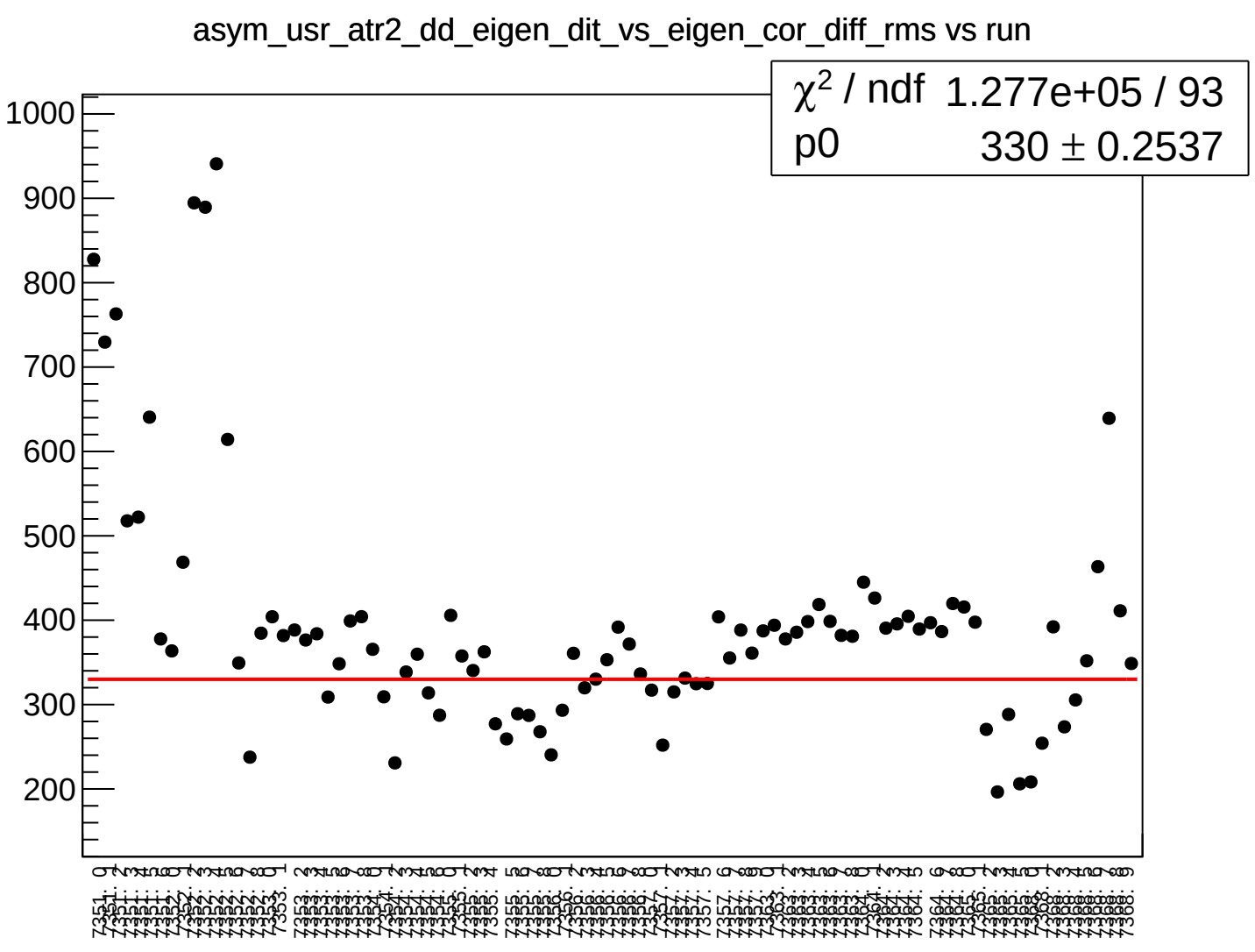

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 96.11 / 93
p0 −0.3947 ± 0.3588
pull
Entries 94
Mean −14.91
Std Dev 0

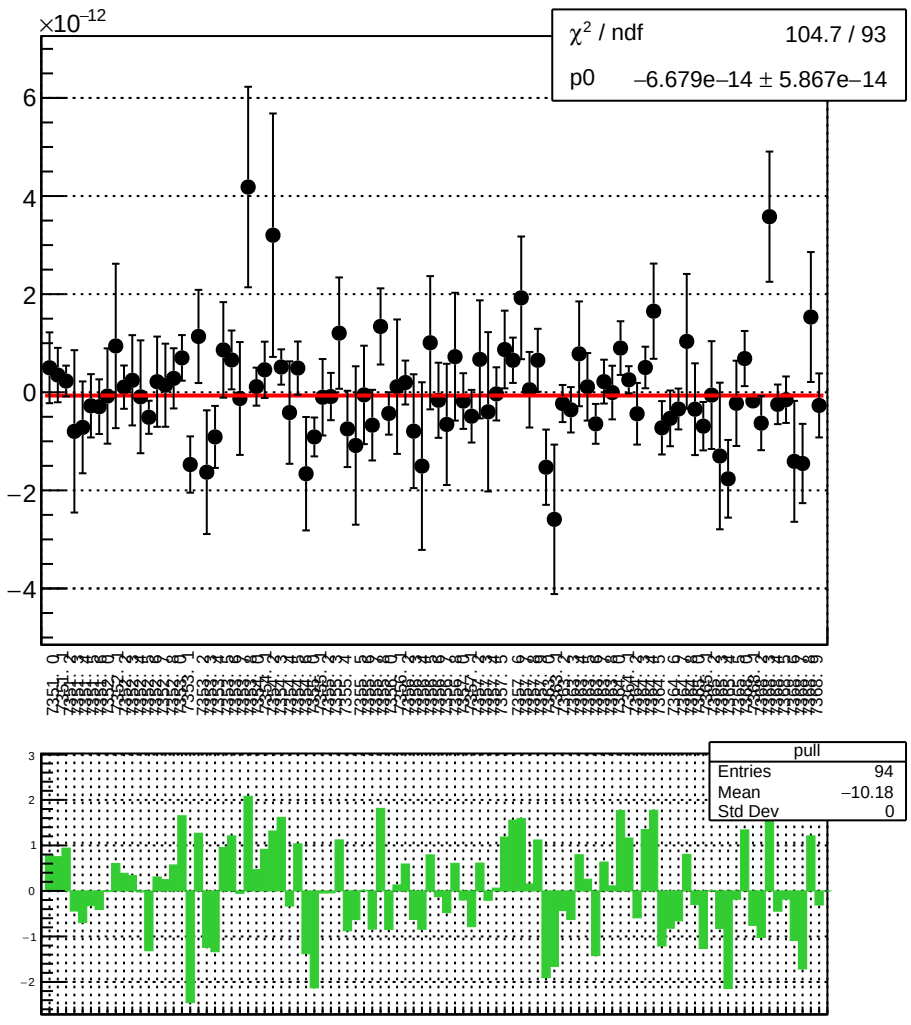

pull1D
Entries 94
Mean 0.02958
Std Dev 1.011

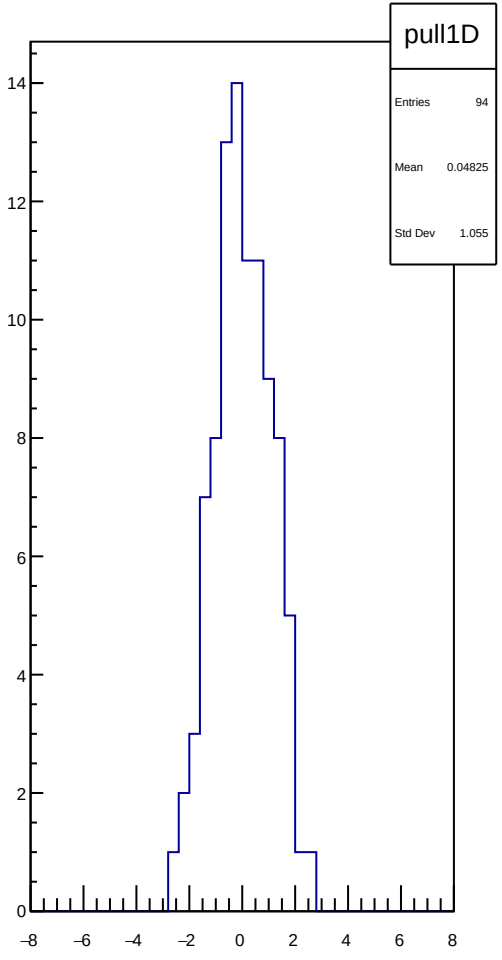

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.277e+05 / 93
p0 330 ± 0.2537
1000
900
800
700
600
500
400
300
200

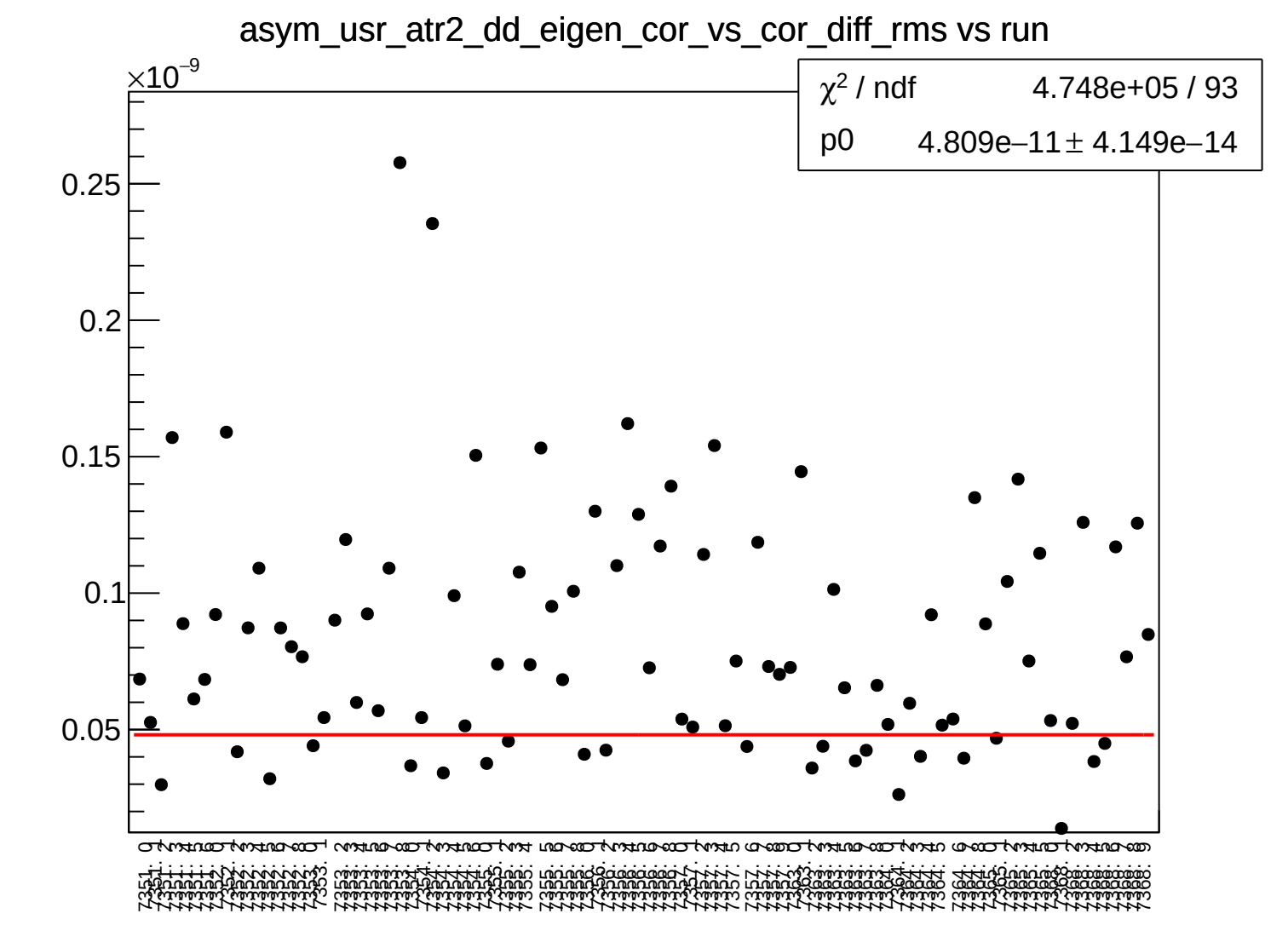

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.11 / 93
p0 −0.3947 ± 0.3588
pull
Entries 94
Mean −14.91
Std Dev 0

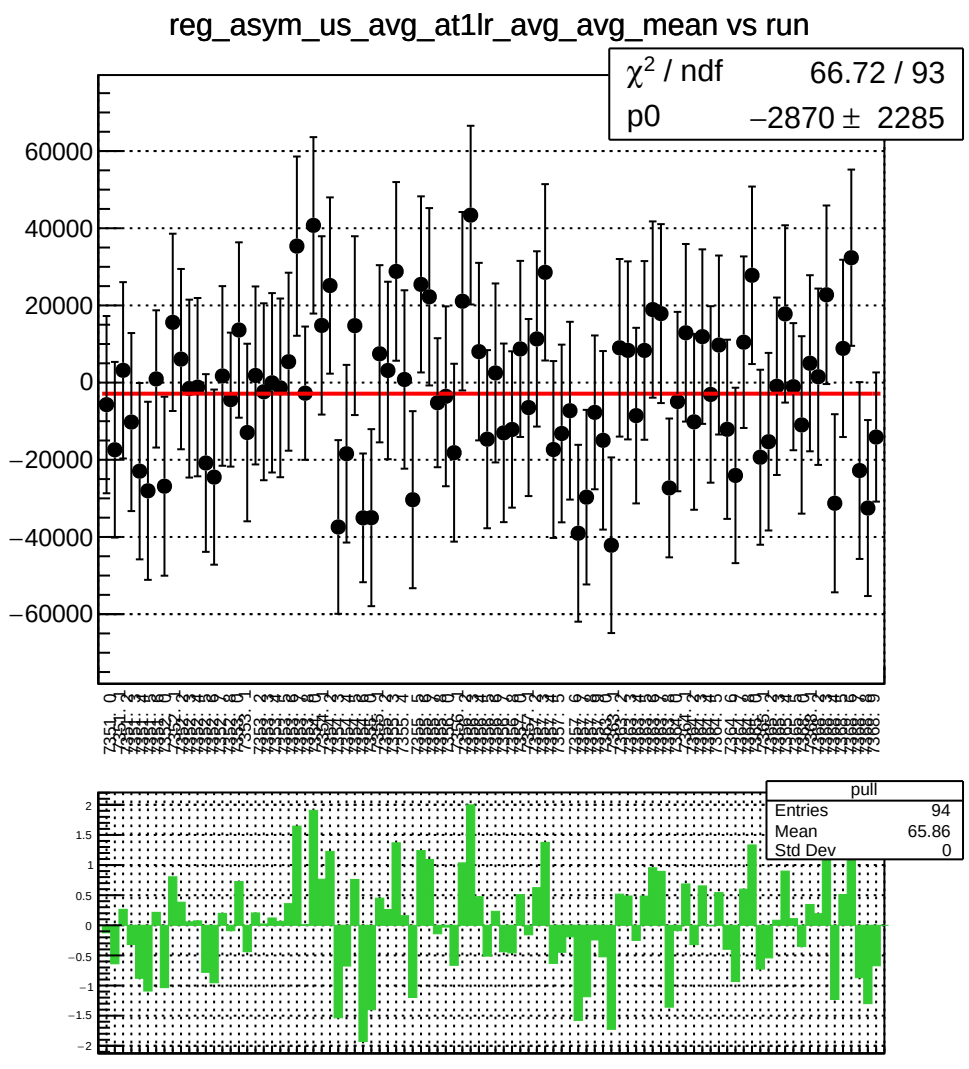

pull1D
Entries 94
Mean 0.02958
Std Dev 1.011

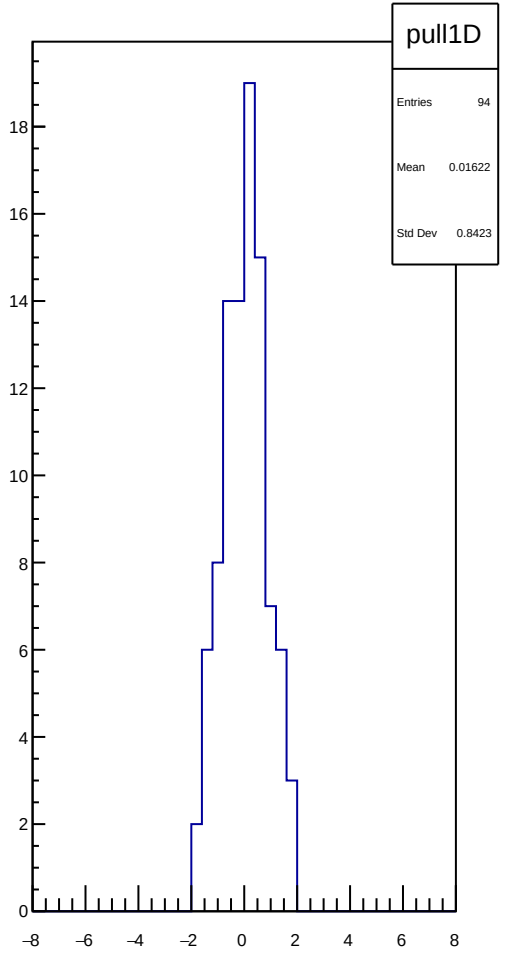

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.277e+05 / 93
p0 330 ± 0.2537
1000
900
800
700
600
500
400
300
200

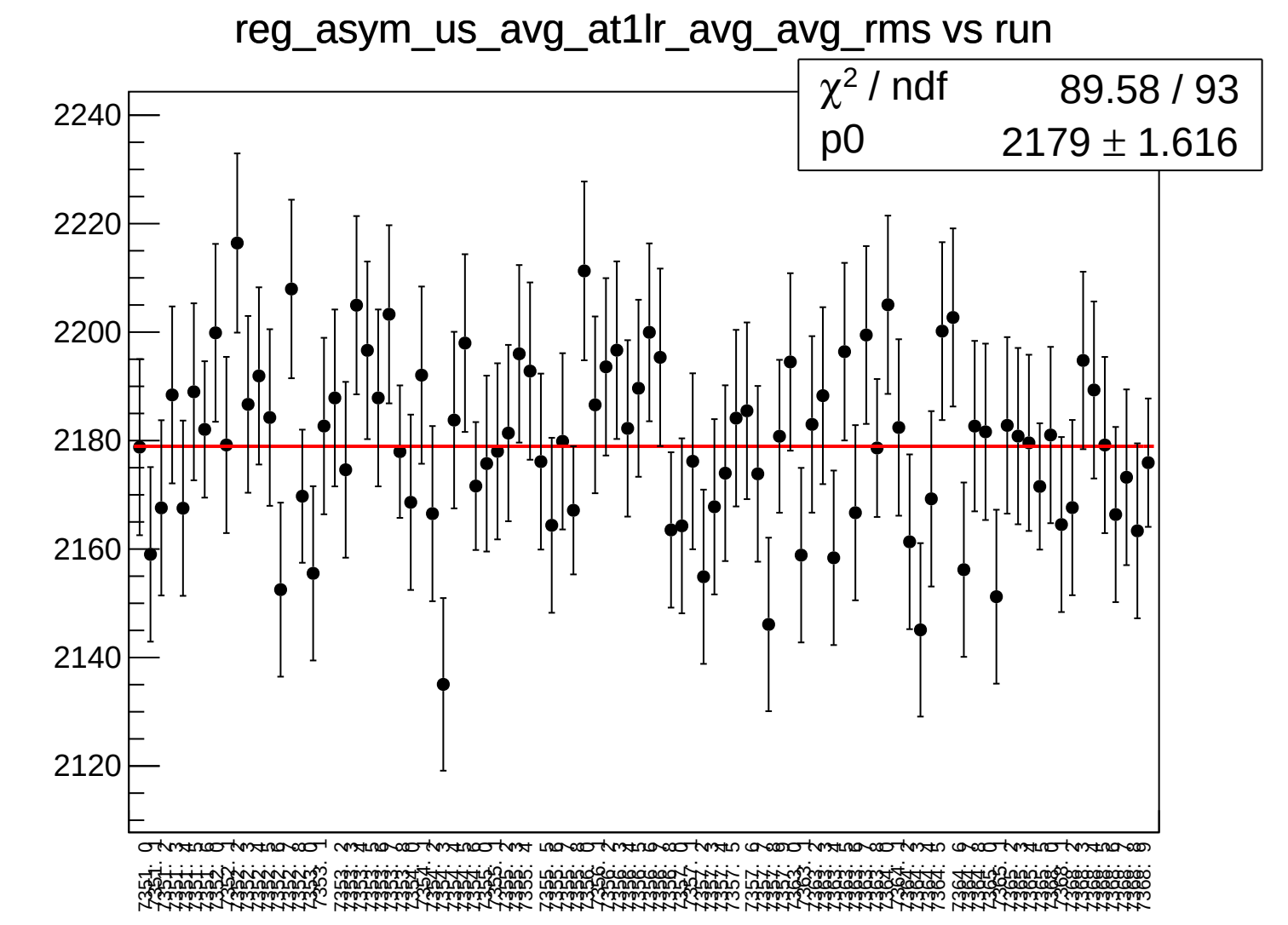

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 104.7 / 93
p0 −6.679e−14 ± 5.867e−14
pull
Entries 94
Mean −10.18
Std Dev 0

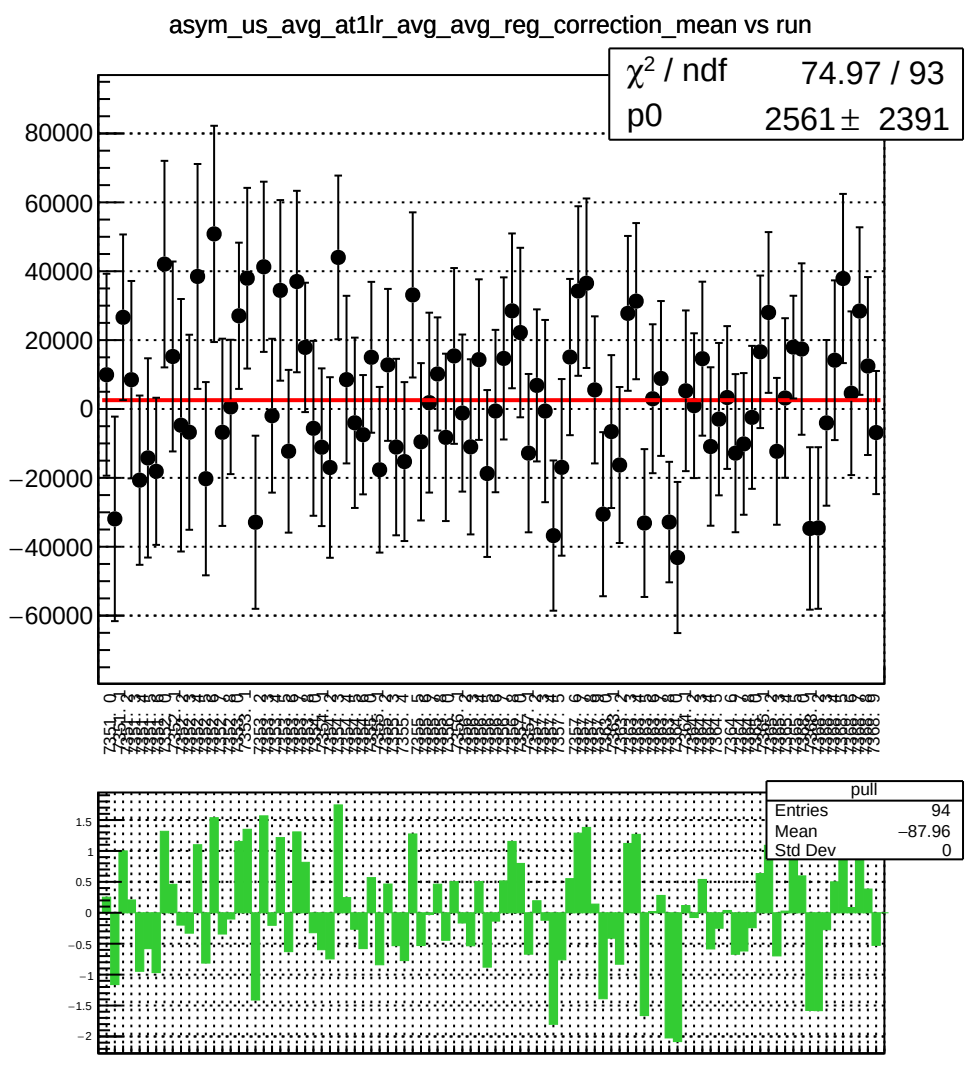

pull1D
Entries 94
Mean 0.04825
Std Dev 1.055

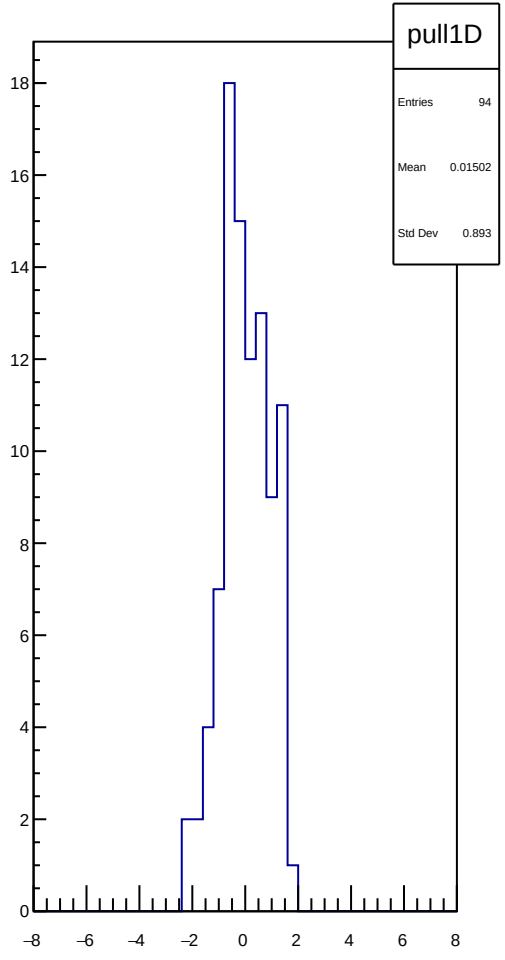

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.748e+05 / 93
p0 4.809e−11 ± 4.149e−14
0.25
0.2
0.15
0.1
0.05

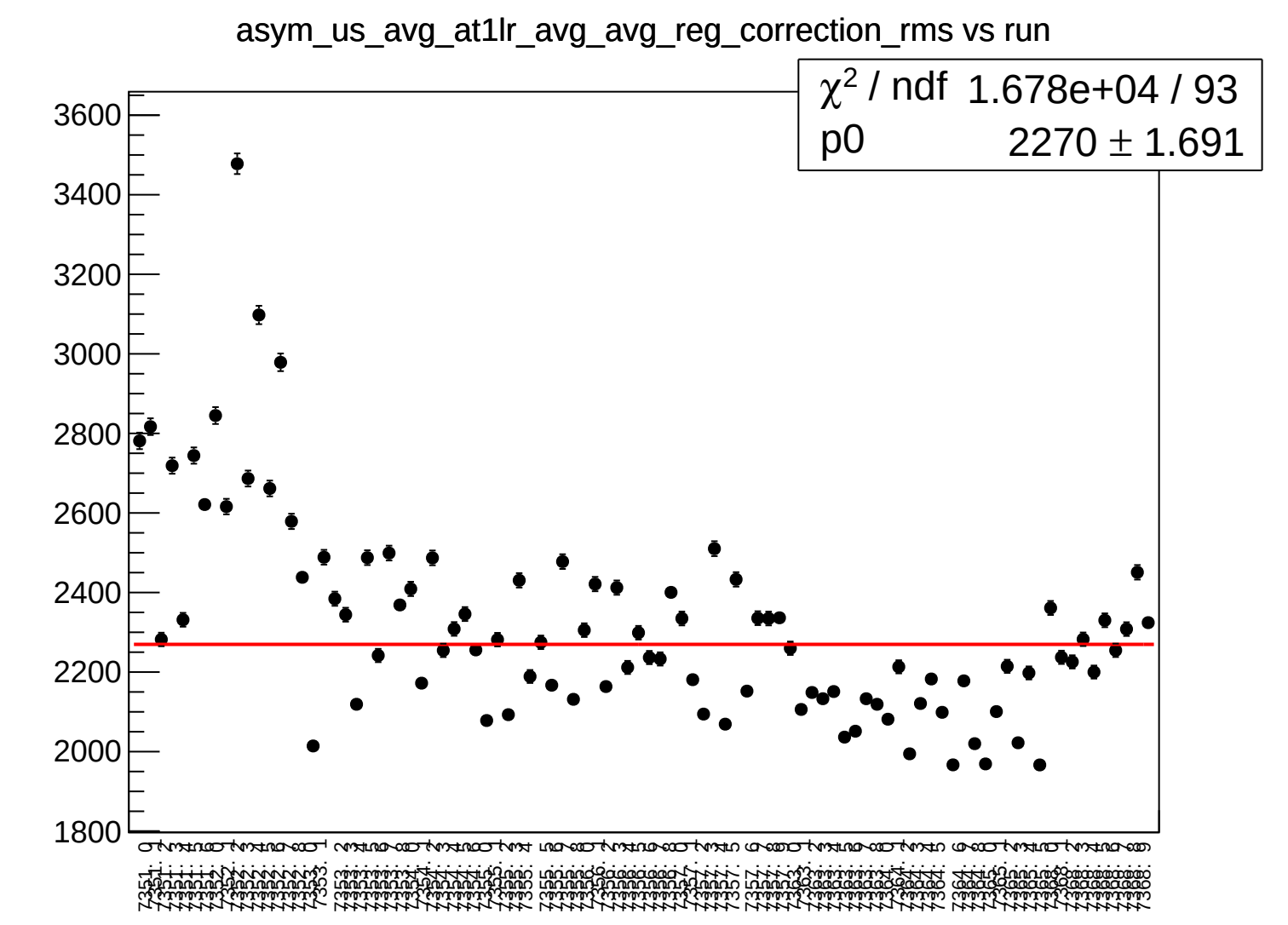

reg_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 66.72 / 93
p0 −2870 ± 2285
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 65.86
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

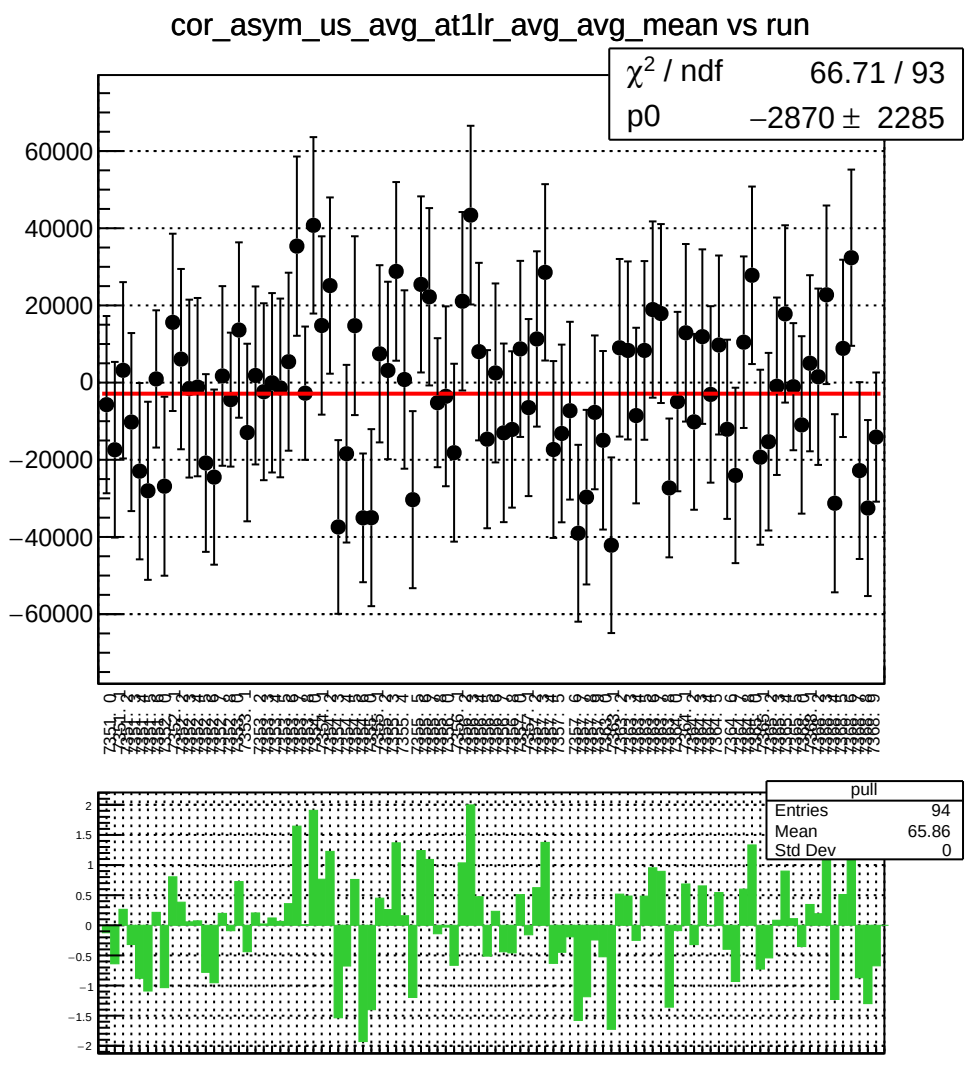

pull1D
Entries 94
Mean 0.01622
Std Dev 0.8423
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

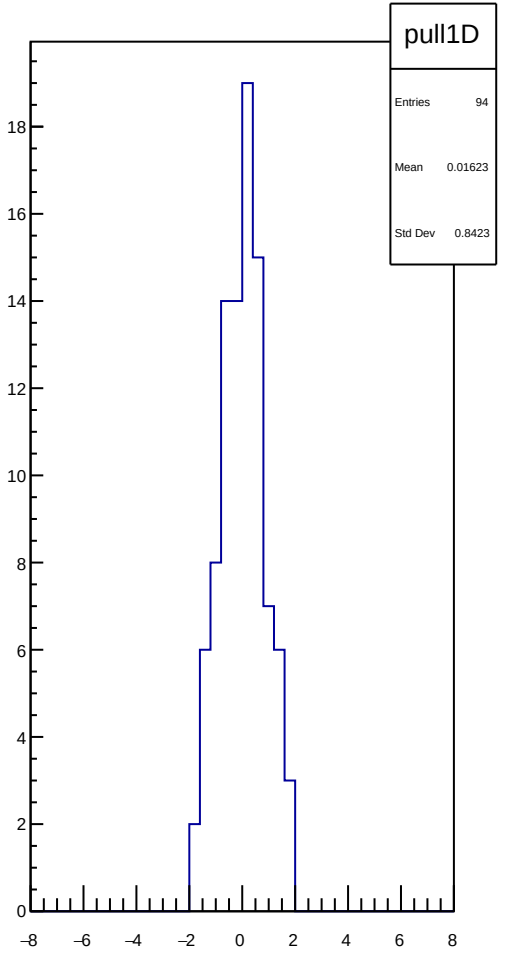

reg_asym_us_avg_at1lr_avg_avg_rms vs run
χ^2 / ndf 89.58 / 93
p0 2179 ± 1.616
2240
2220
2200
2180
2160
2140
2120

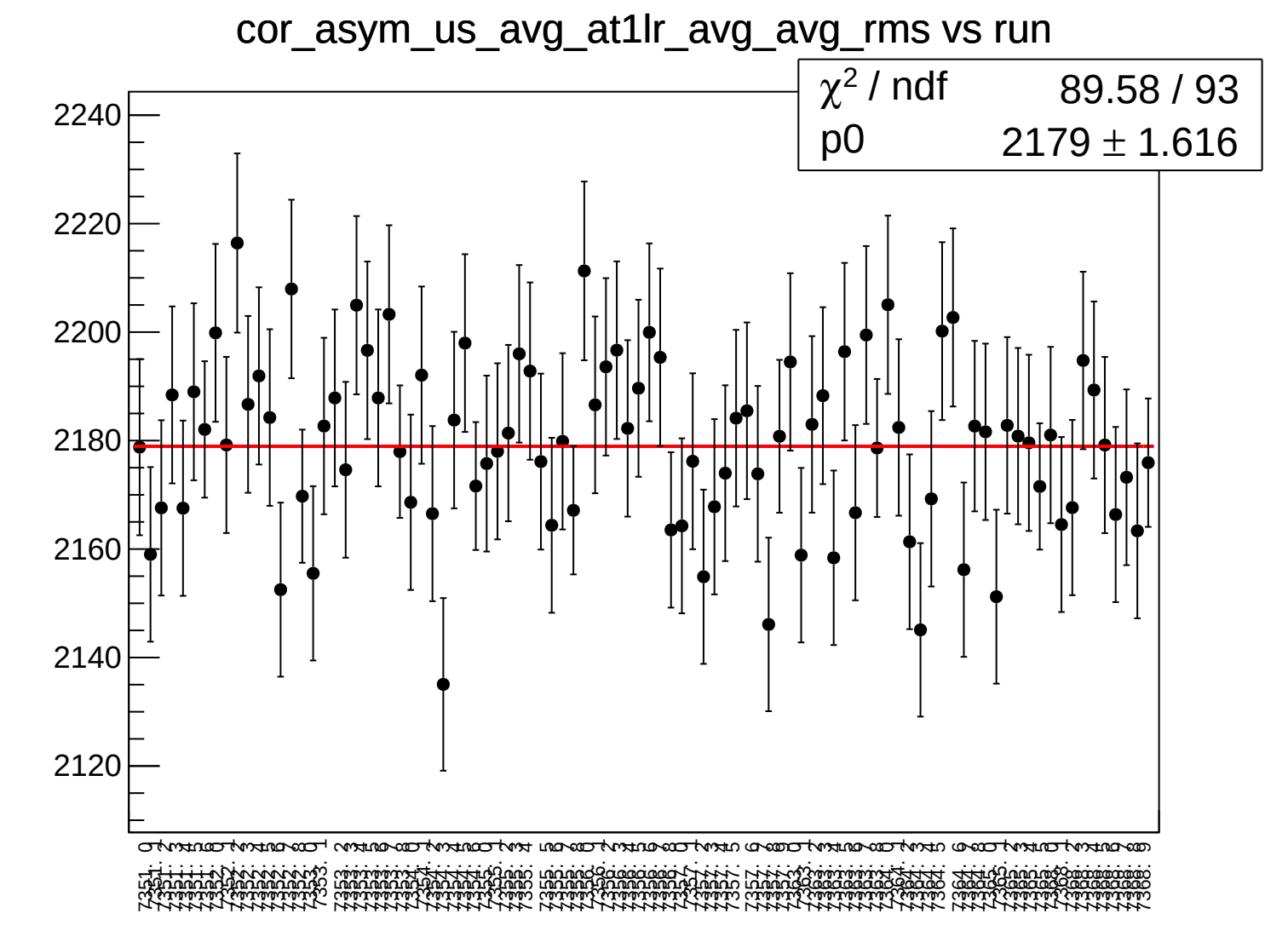

asym_us_avg_at1lr_avg_avg_reg_correction_mean vs run
χ² / ndf 74.97 / 93
p0 2561 ± 2391
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −87.96
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

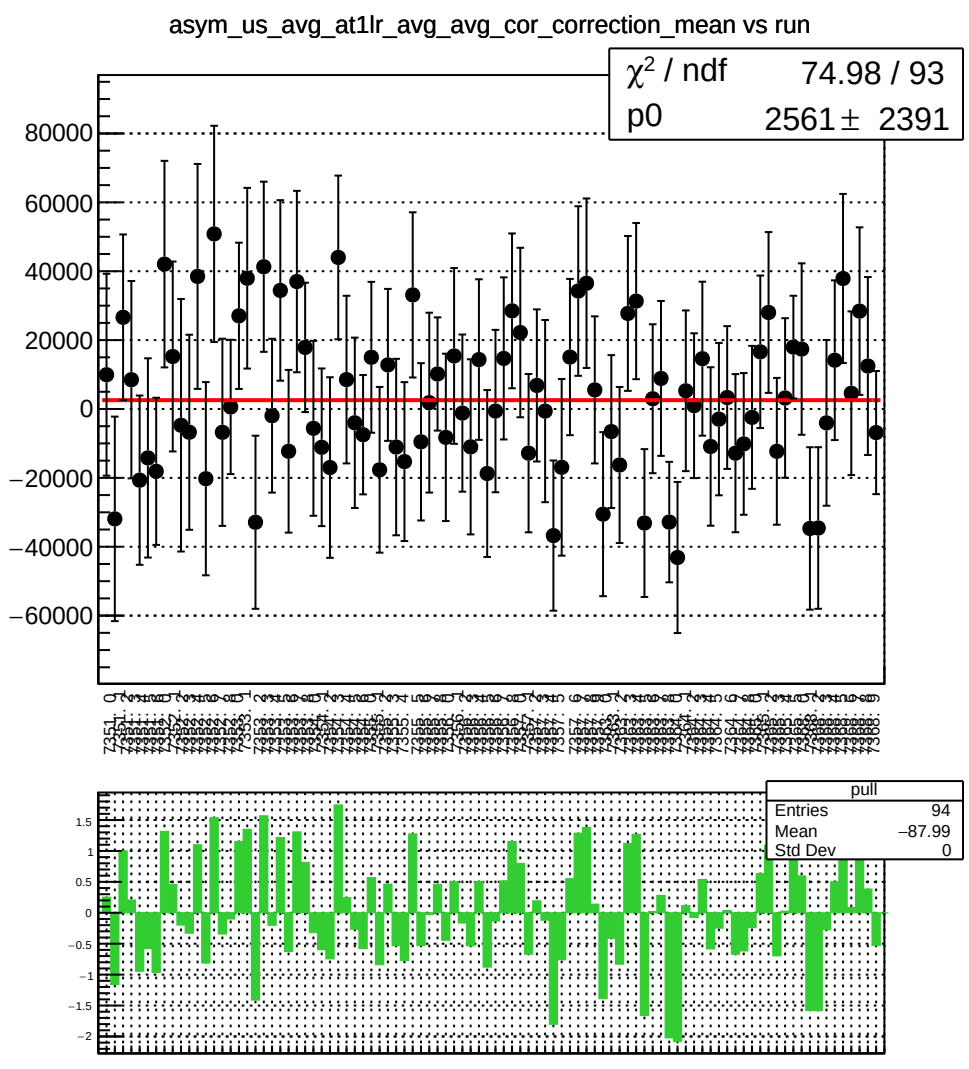

pull1D
Entries 94
Mean 0.01502
Std Dev 0.893
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

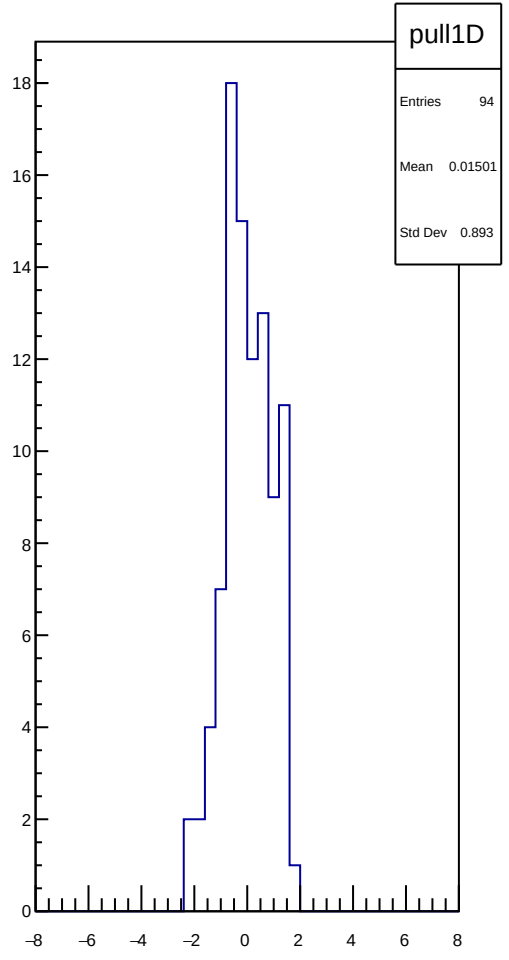

asym_us_avg_at1lr_avg_avg_reg_correction_rms vs run
χ² / ndf 1.678e+04 / 93
p0 2270 ± 1.691
3600
3400
3200
3000
2800
2600
2400
2200
2000
1800

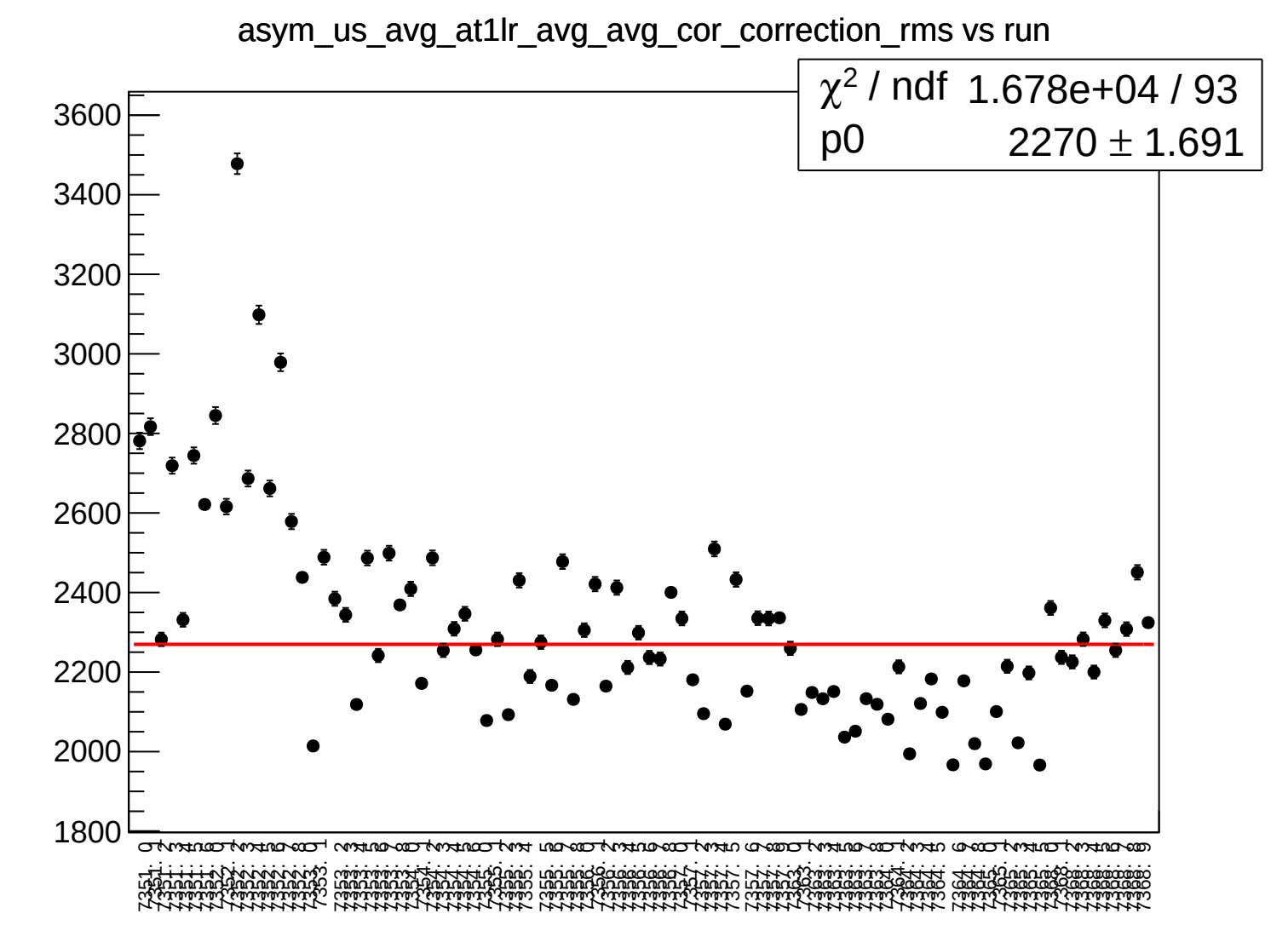

cor_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 66.71 / 93
p0 −2870 ± 2285
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 65.86
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

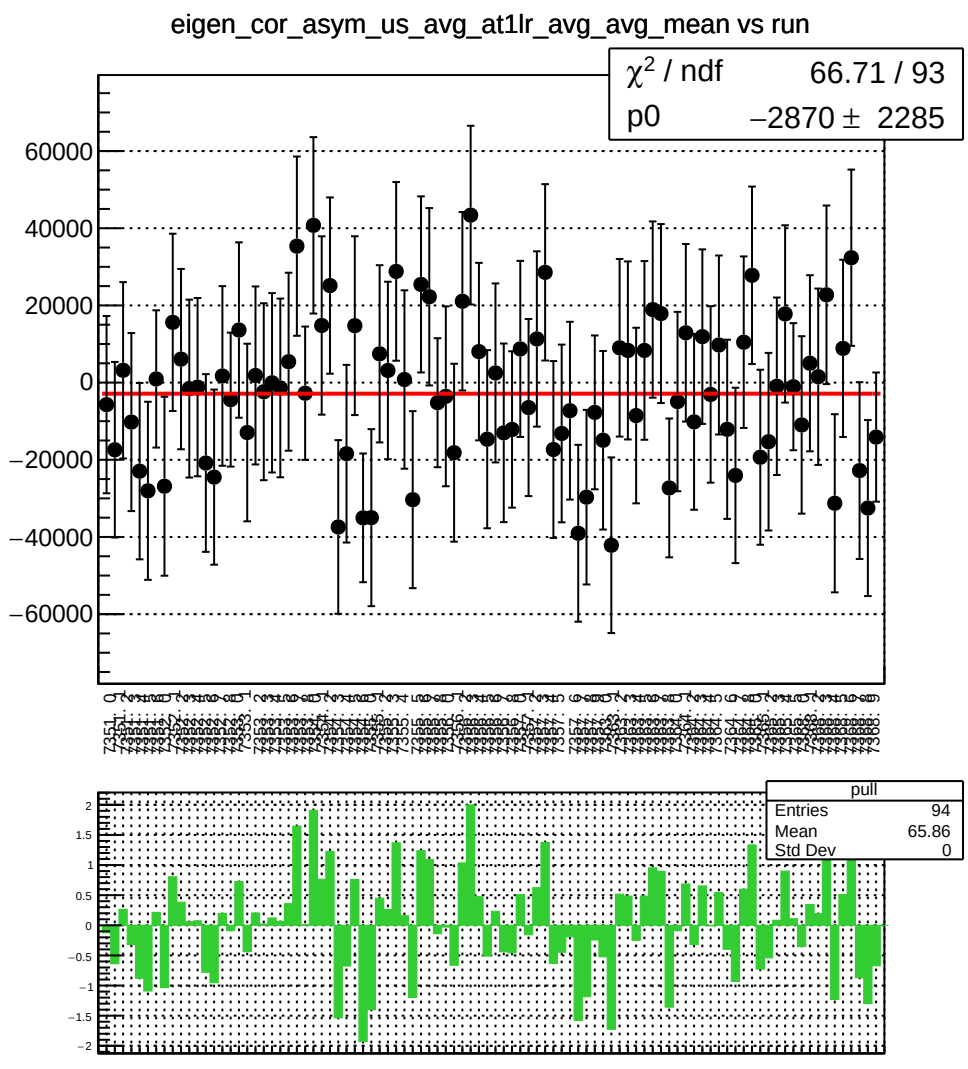

pull1D
Entries 94
Mean 0.01623
Std Dev 0.8423
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

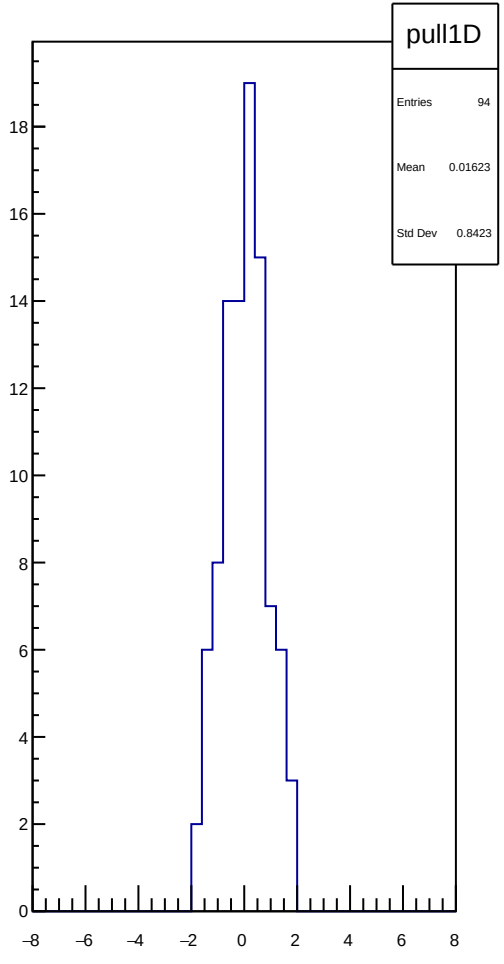

cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 89.58 / 93
p0 2179 ± 1.616
2240
2220
2200
2180
2160
2140
2120

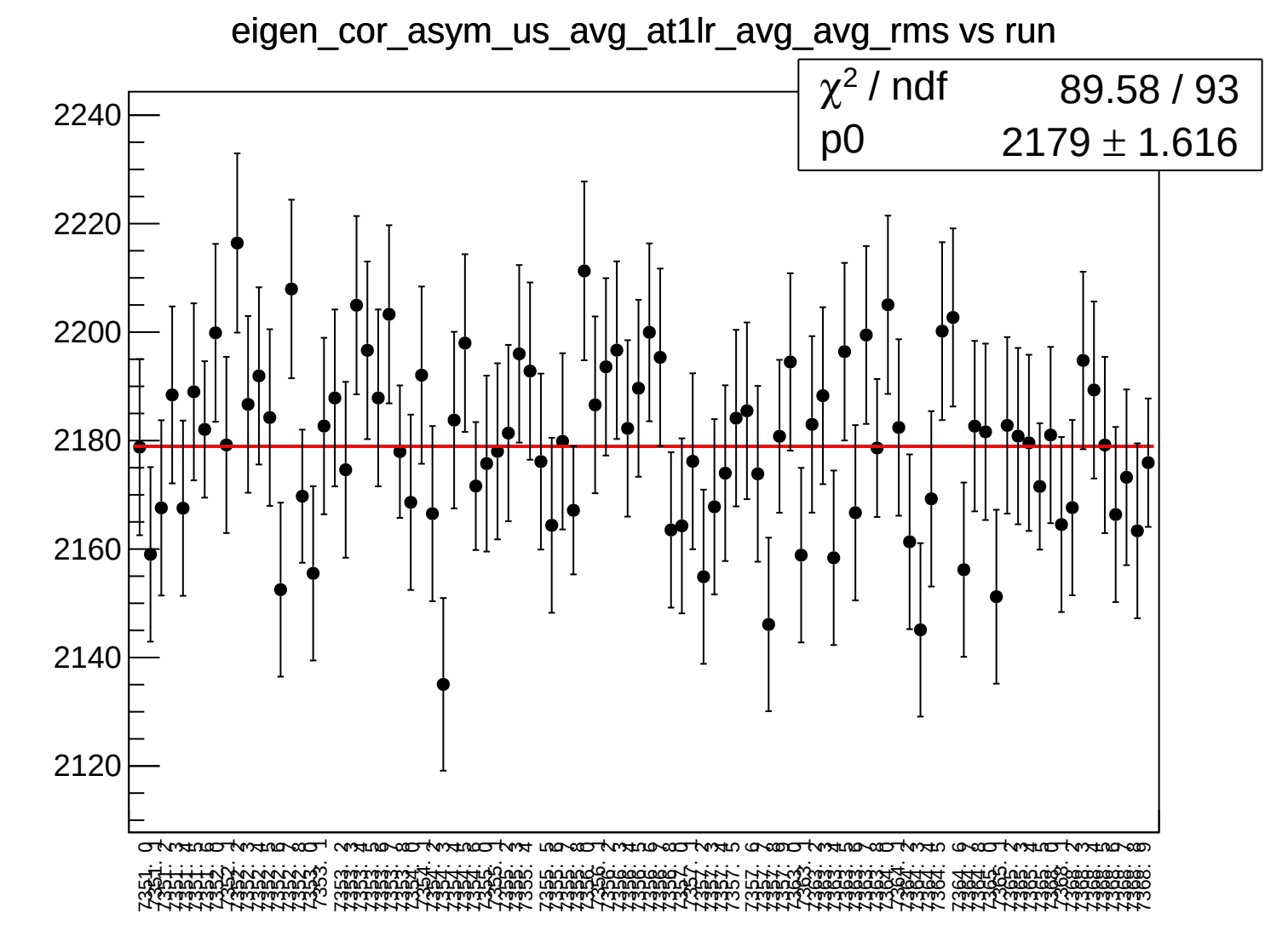

asym_us_avg_at1lr_avg_avg_cor_correction_mean vs run
χ² / ndf 74.98 / 93
p0 2561 ± 2391
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −87.99
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

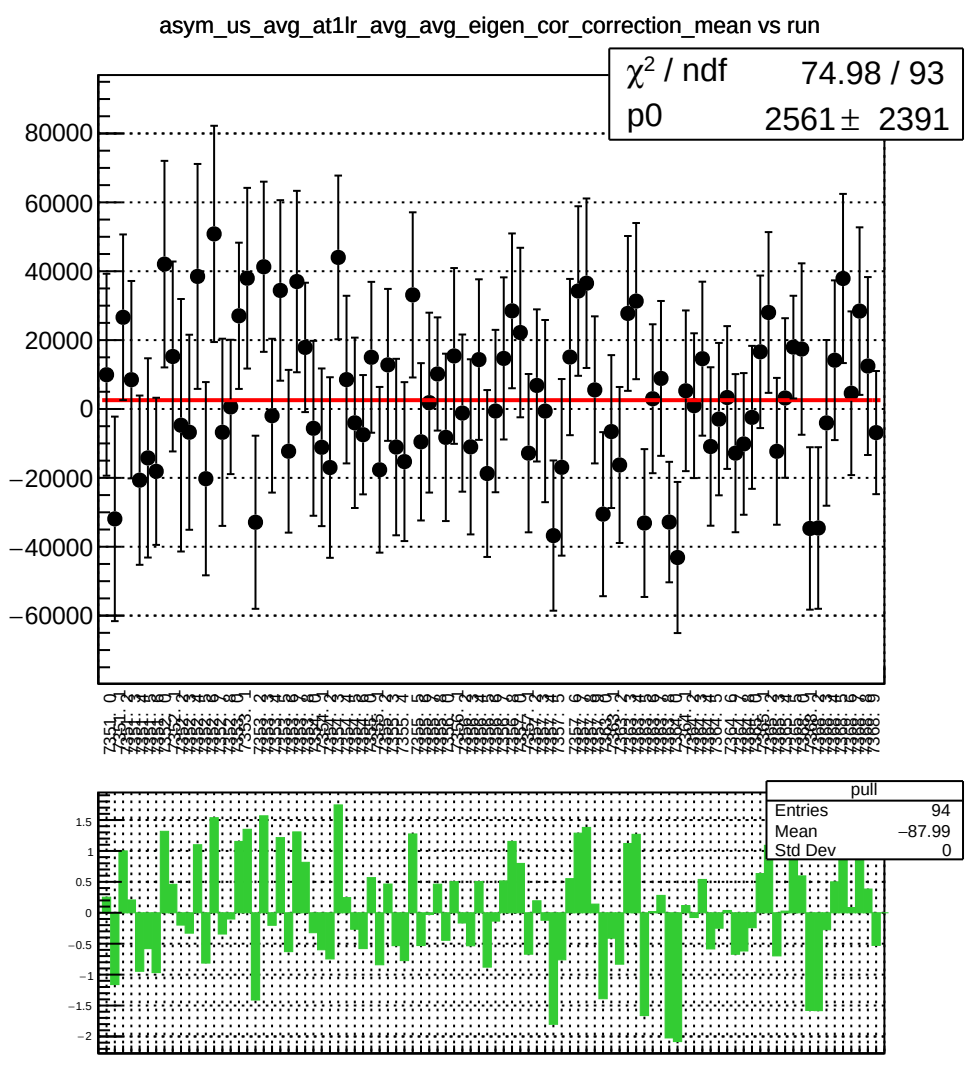

pull1D
Entries 94
Mean 0.01501
Std Dev 0.893
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

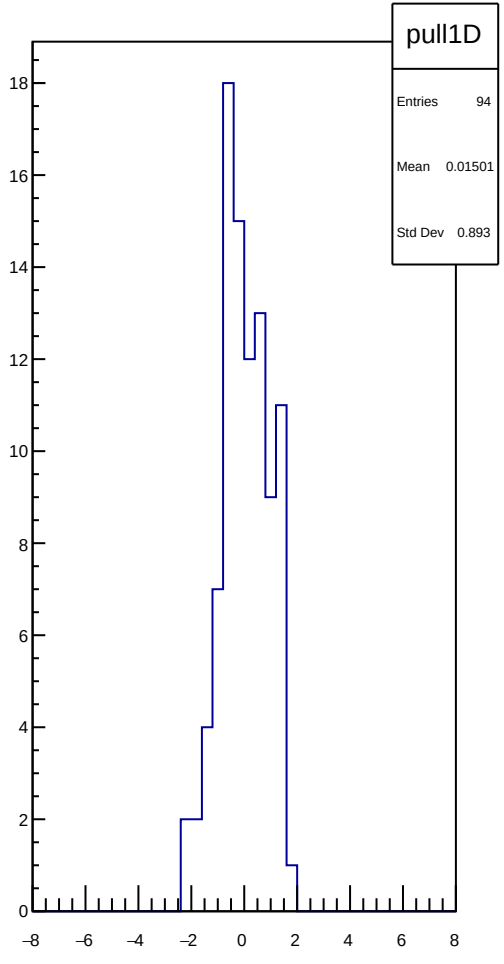

asym_us_avg_at1lr_avg_avg_cor_correction_rms vs run
χ² / ndf 1.678e+04 / 93
p0 2270 ± 1.691
3600
3400
3200
3000
2800
2600
2400
2200
2000
1800

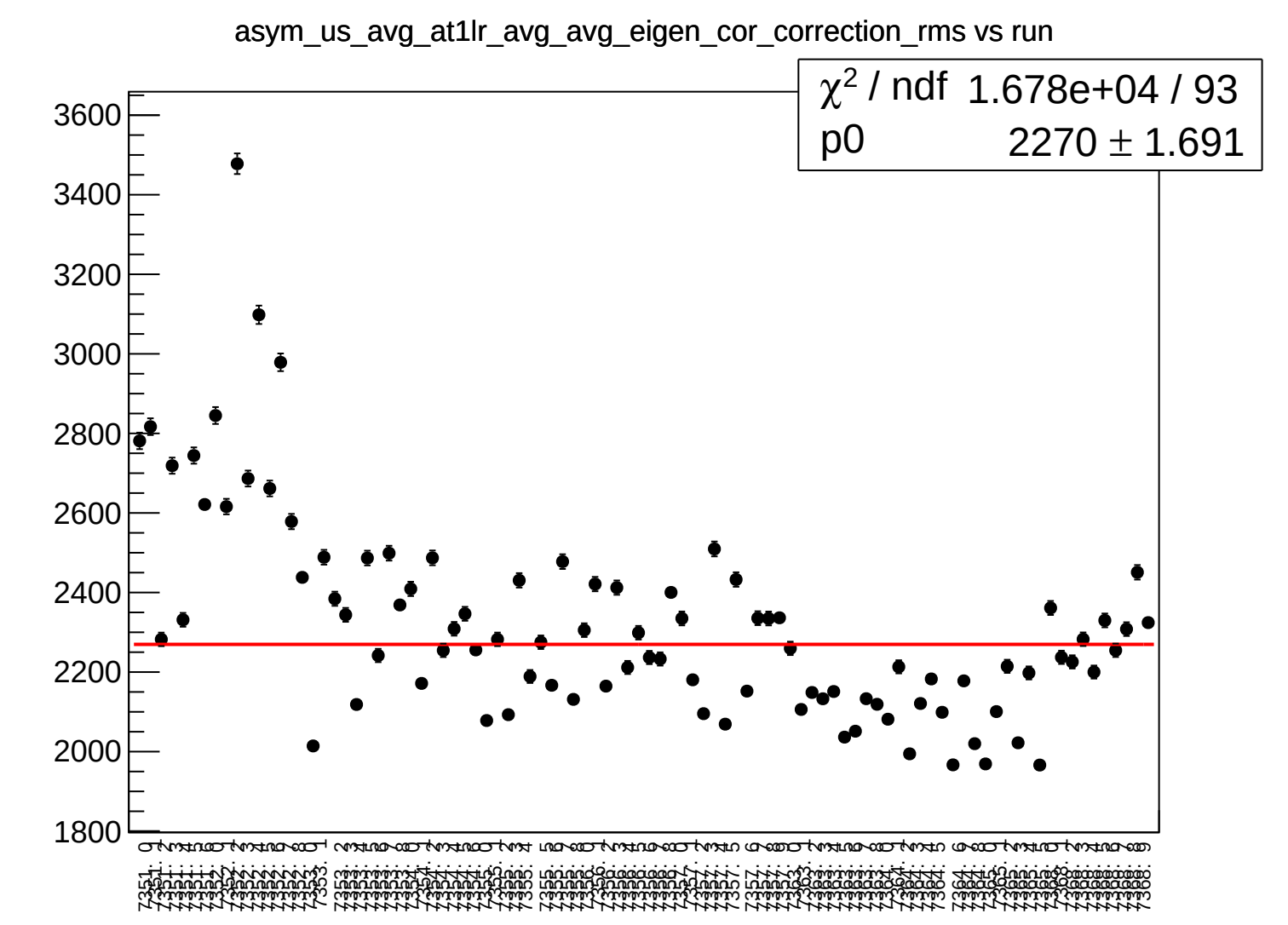

eigen_cor_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 66.71 / 93
p0 −2870 ± 2285
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 65.86
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

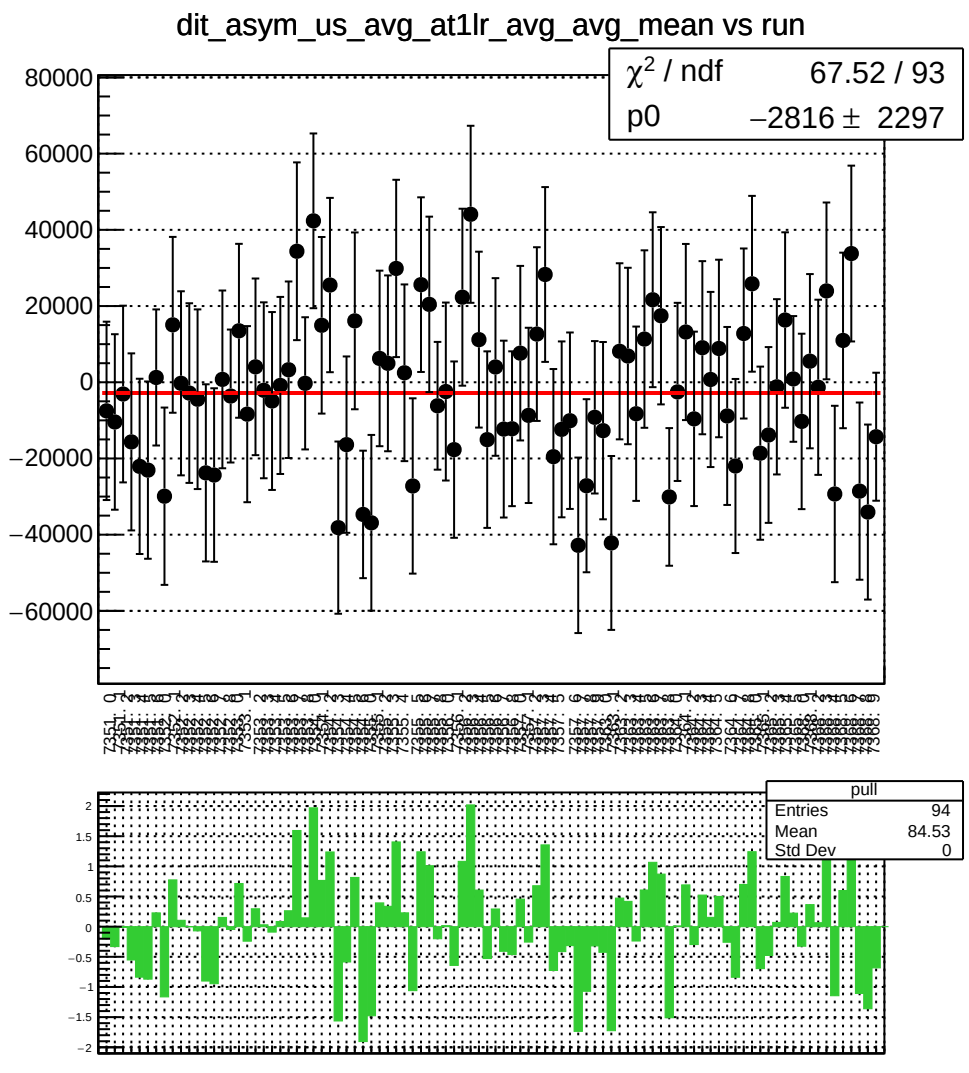

pull1D
Entries 94
Mean 0.01623
Std Dev 0.8423
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

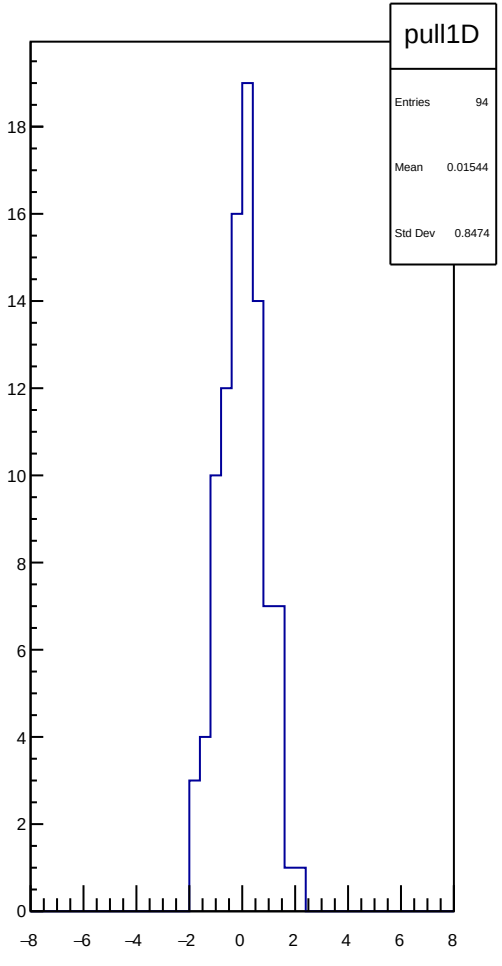

eigen_cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ^2 / ndf 89.58 / 93
p0 2179 ± 1.616
2240
2220
2200
2180
2160
2140
2120

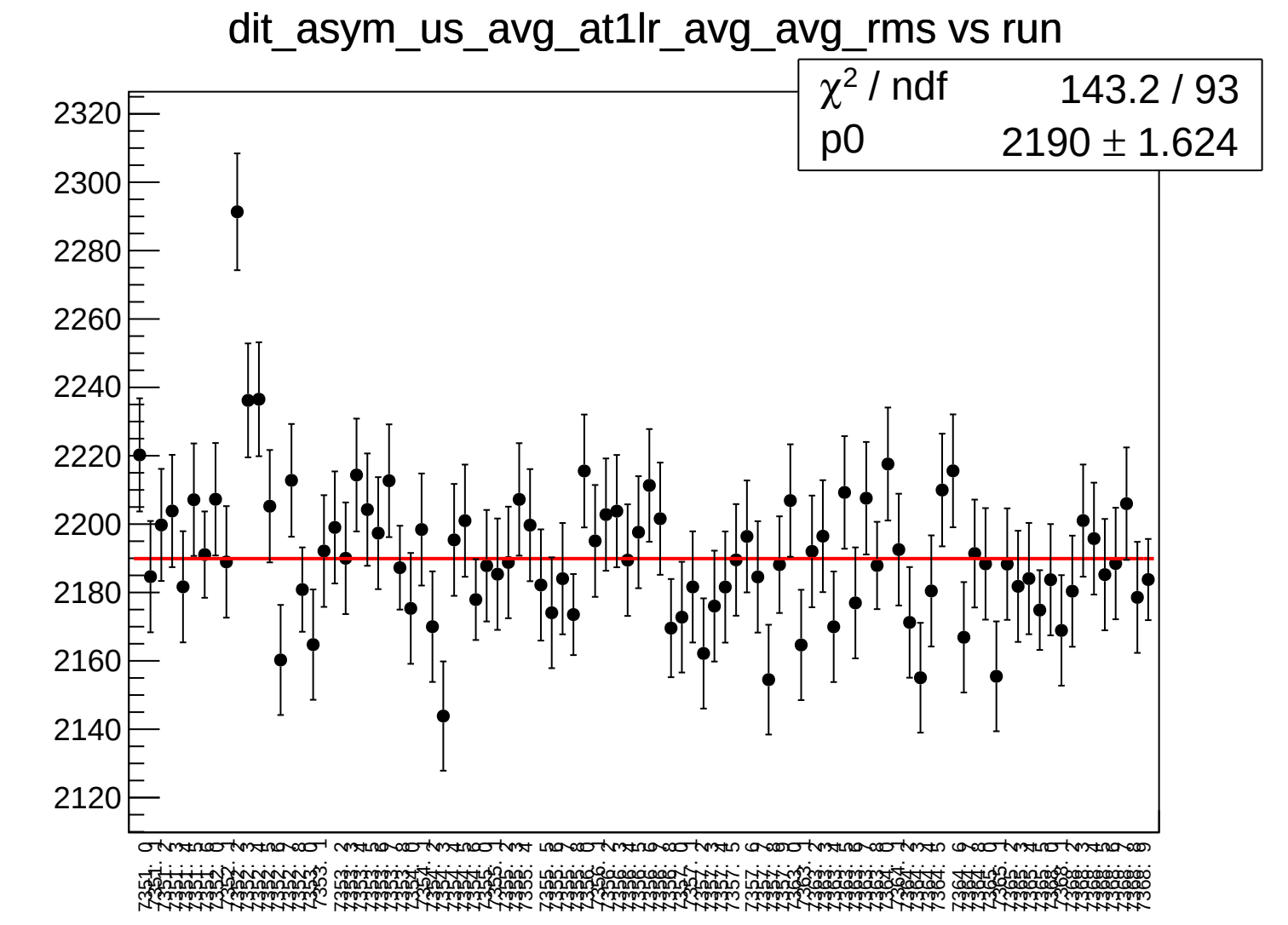

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_mean vs run
χ² / ndf 74.98 / 93
p0 2561 ± 2391
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −87.99
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

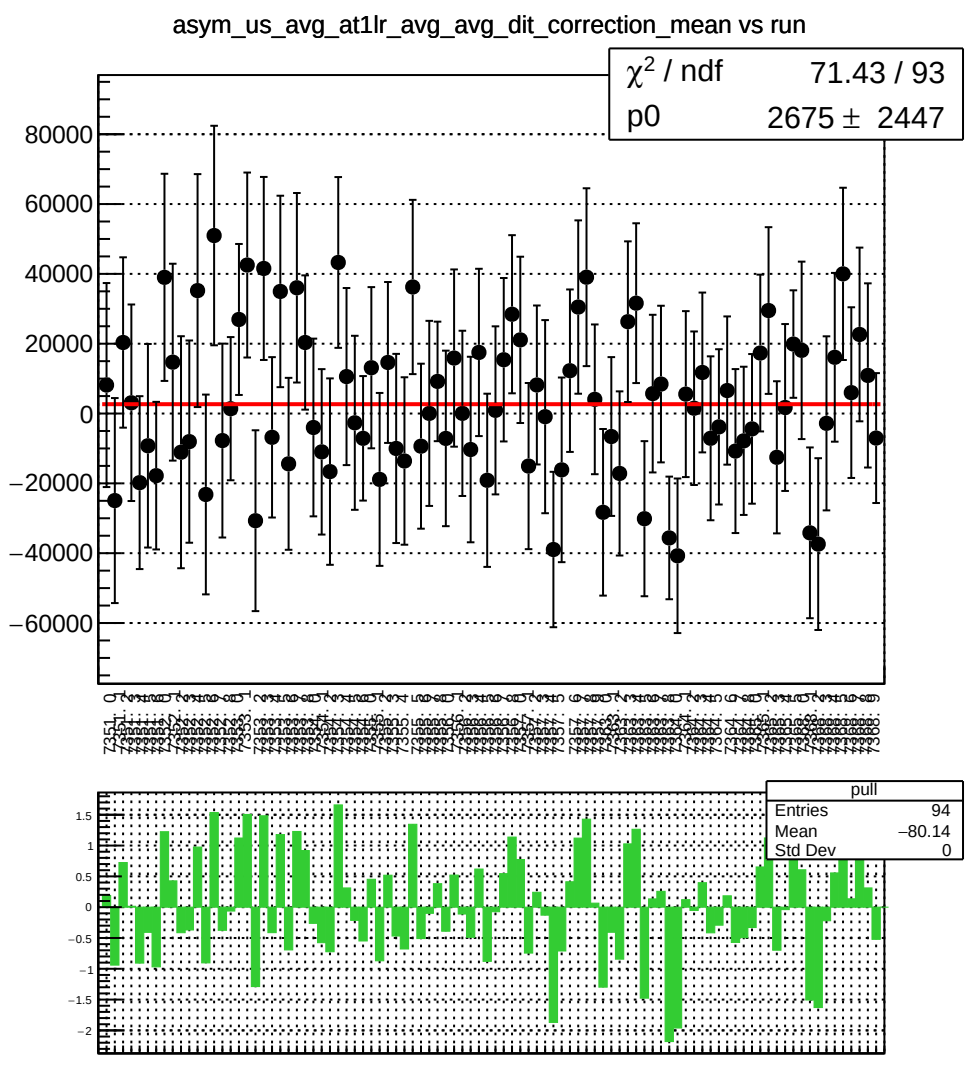

pull1D
Entries 94
Mean 0.01501
Std Dev 0.893
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

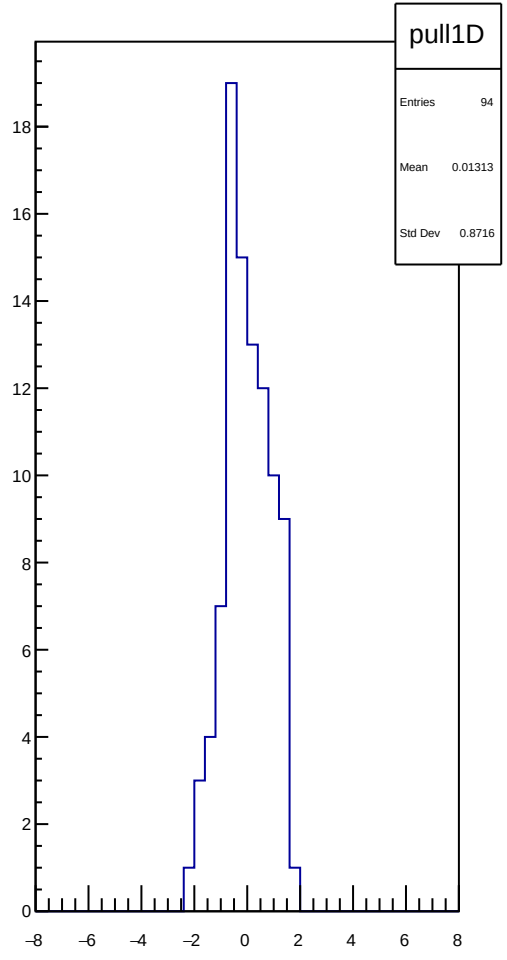

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.678e+04 / 93
p0 2270 ± 1.691
3600
3400
3200
3000
2800
2600
2400
2200
2000
1800

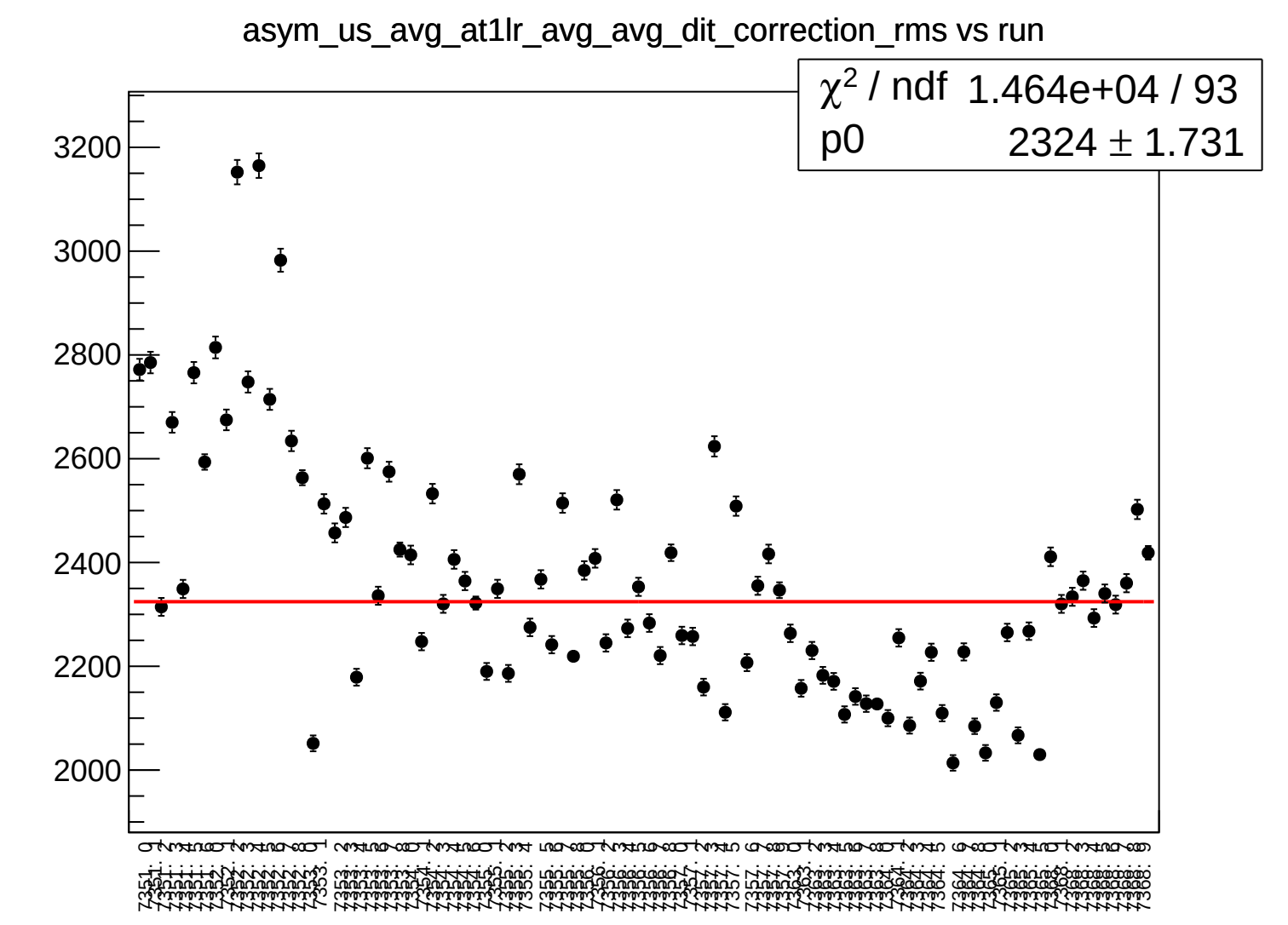

dit_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 67.52 / 93
p0 −2816 ± 2297
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 84.53
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

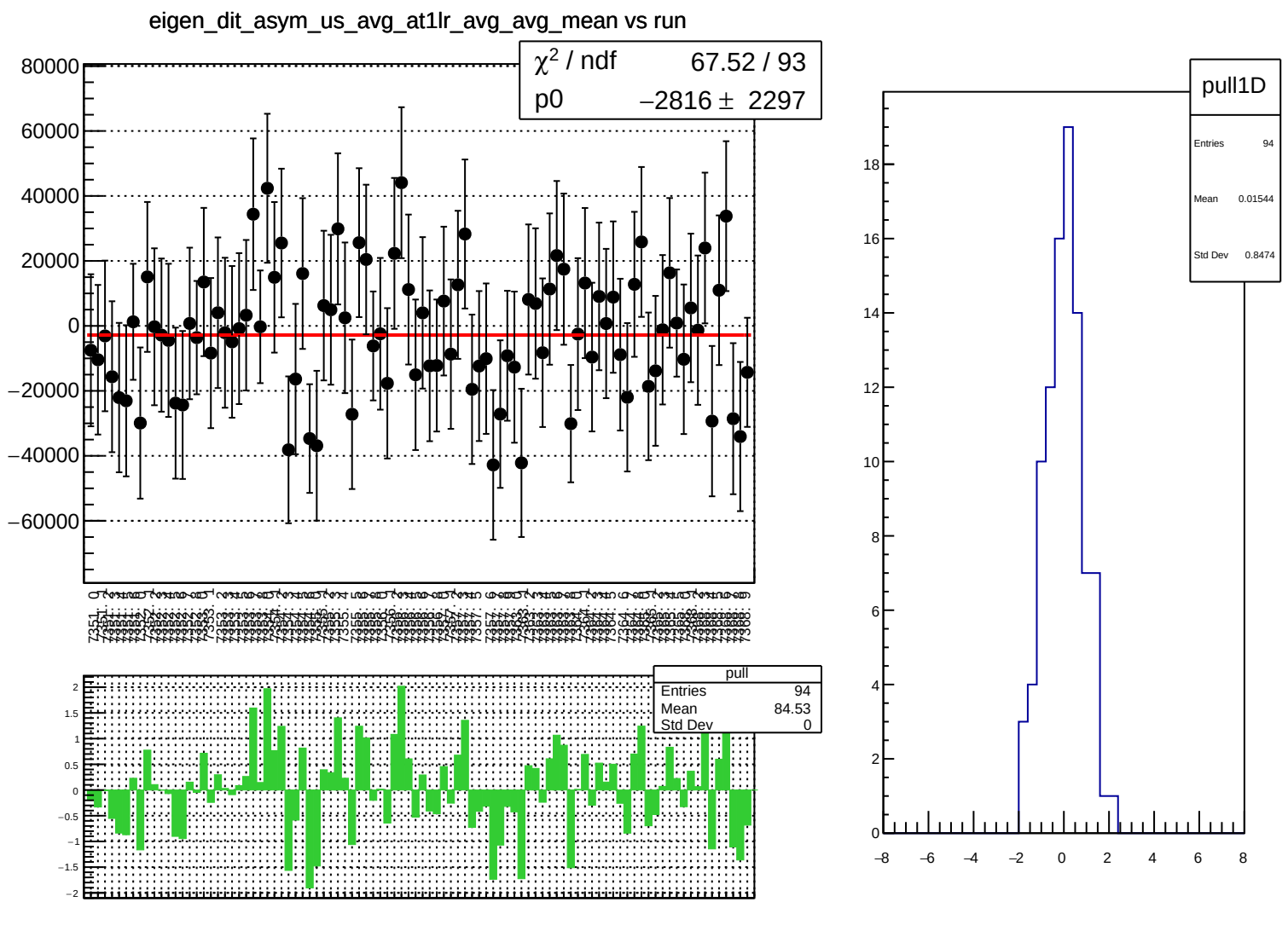

pull1D
Entries 94
Mean 0.01544
Std Dev 0.8474
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

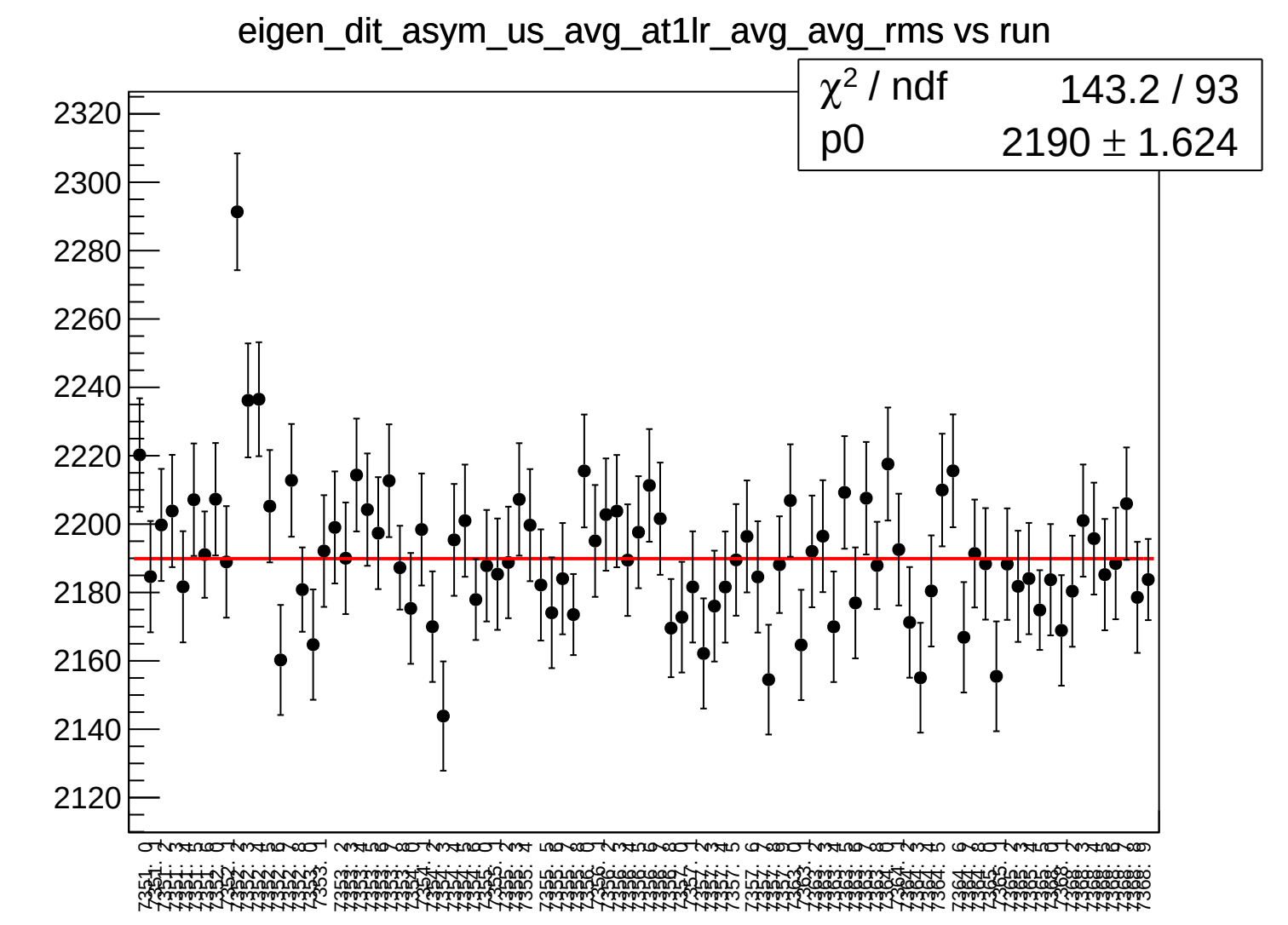

dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 143.2 / 93
p0 2190 ± 1.624
2320
2300
2280
2260
2240
2220
2200
2180
2160
2140
2120

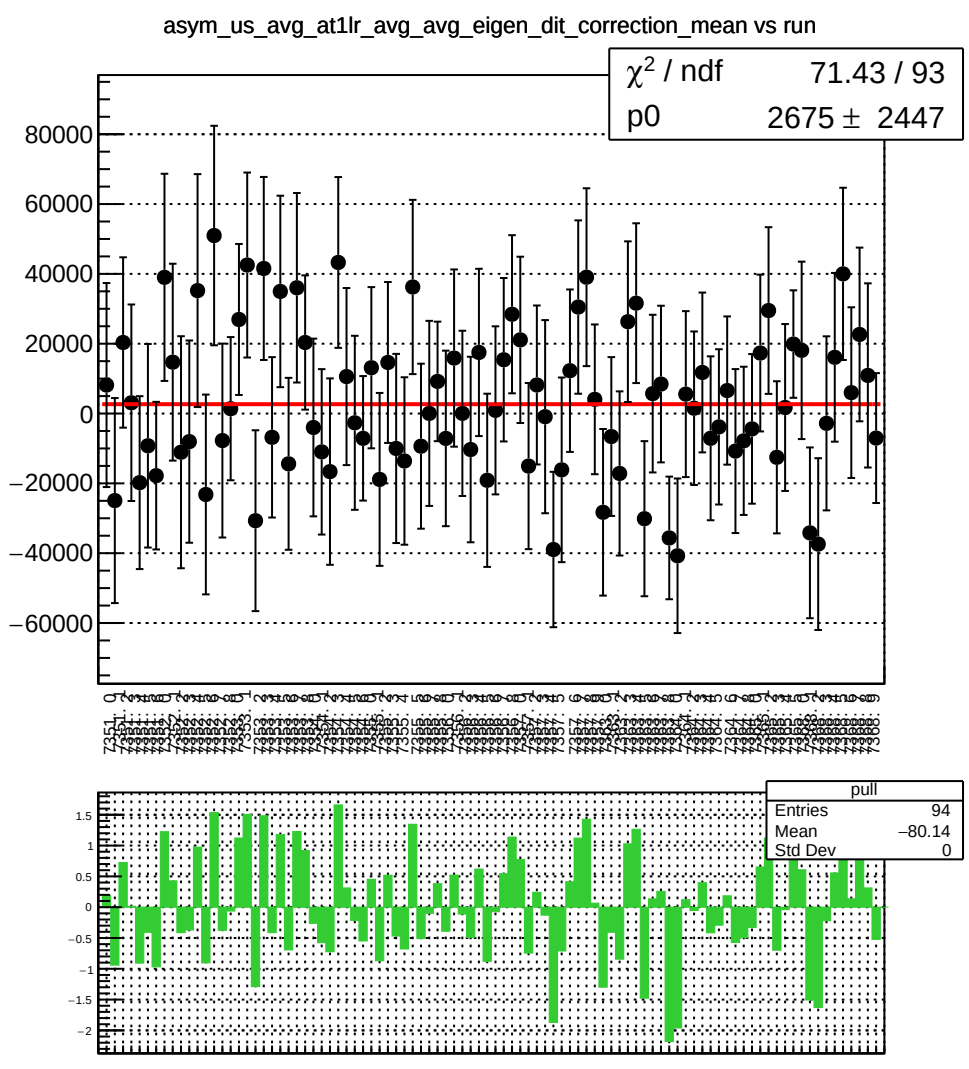

asym_us_avg_at1lr_avg_avg_dit_correction_mean vs run
χ² / ndf 71.43 / 93
p0 2675 ± 2447
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −80.14
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

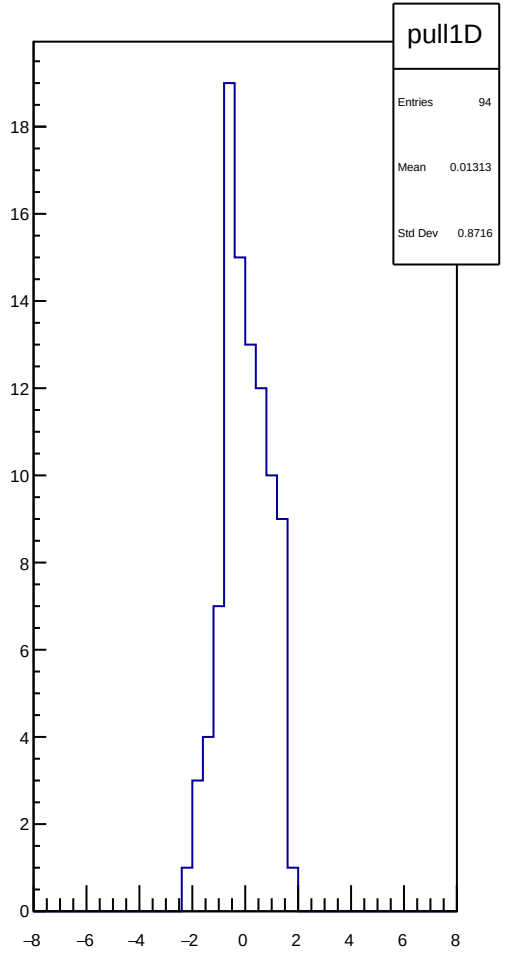

pull1D
Entries 94
Mean 0.01313
Std Dev 0.8716
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

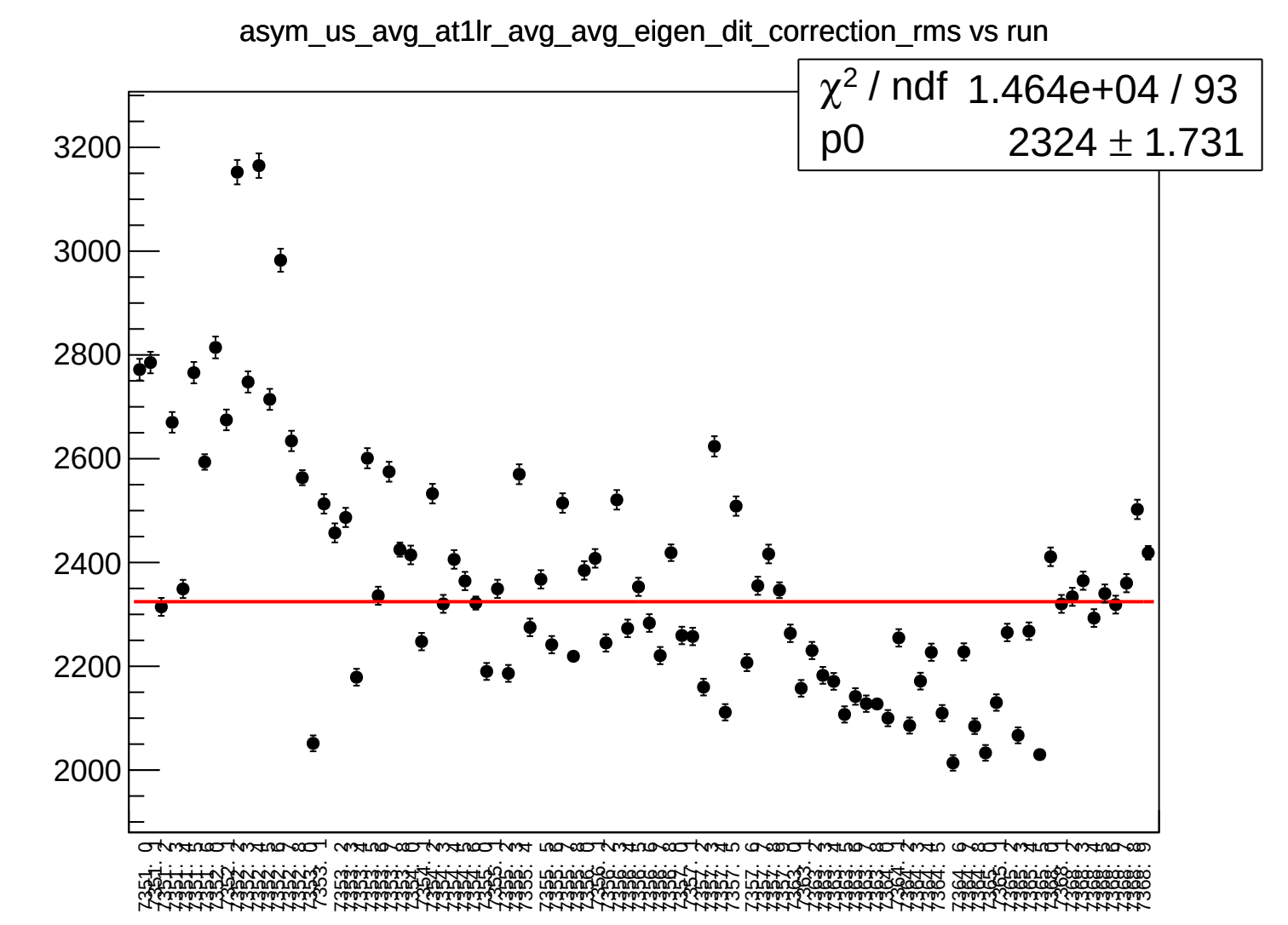

asym_us_avg_at1lr_avg_avg_dit_correction_rms vs run
χ^2 / ndf 1.464e+04 / 93
p0 2324 ± 1.731
3200
3000
2800
2600
2400
2200
2000

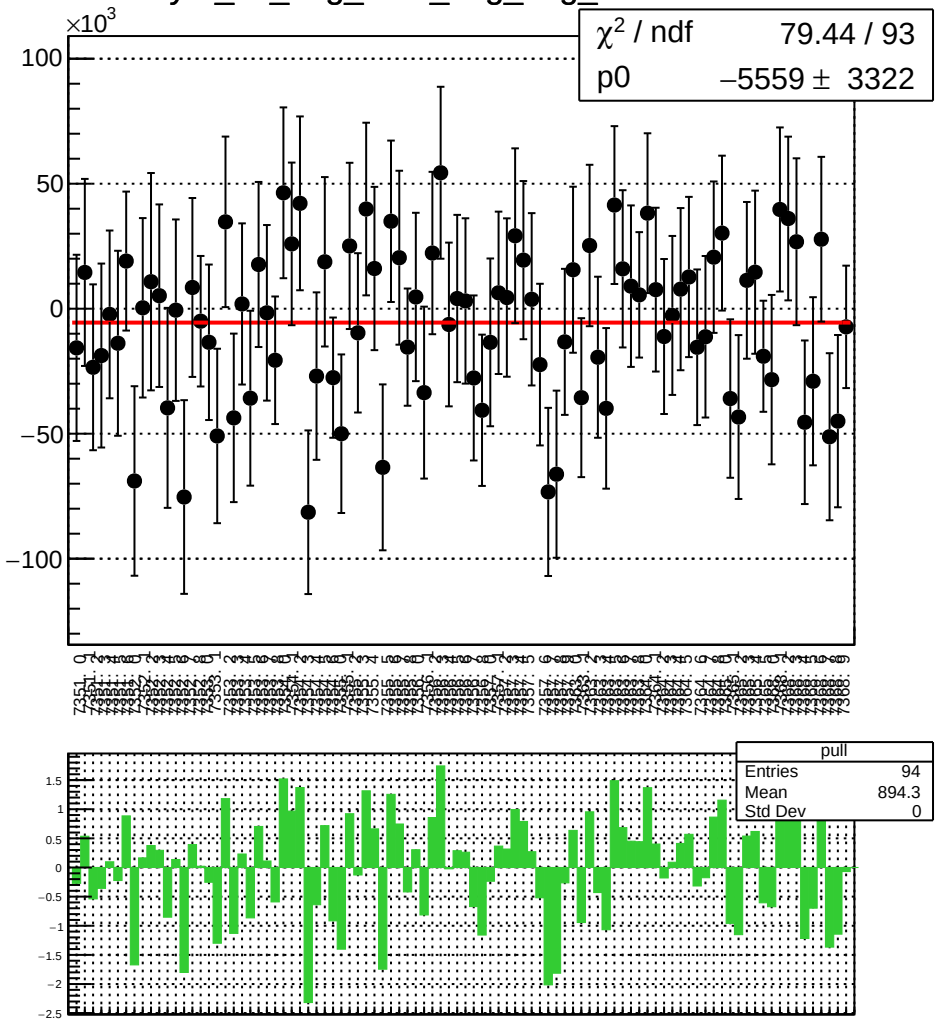

eigen_dit_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 67.52 / 93
p0 −2816 ± 2297
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 84.53
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean 0.01544
Std Dev 0.8474
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

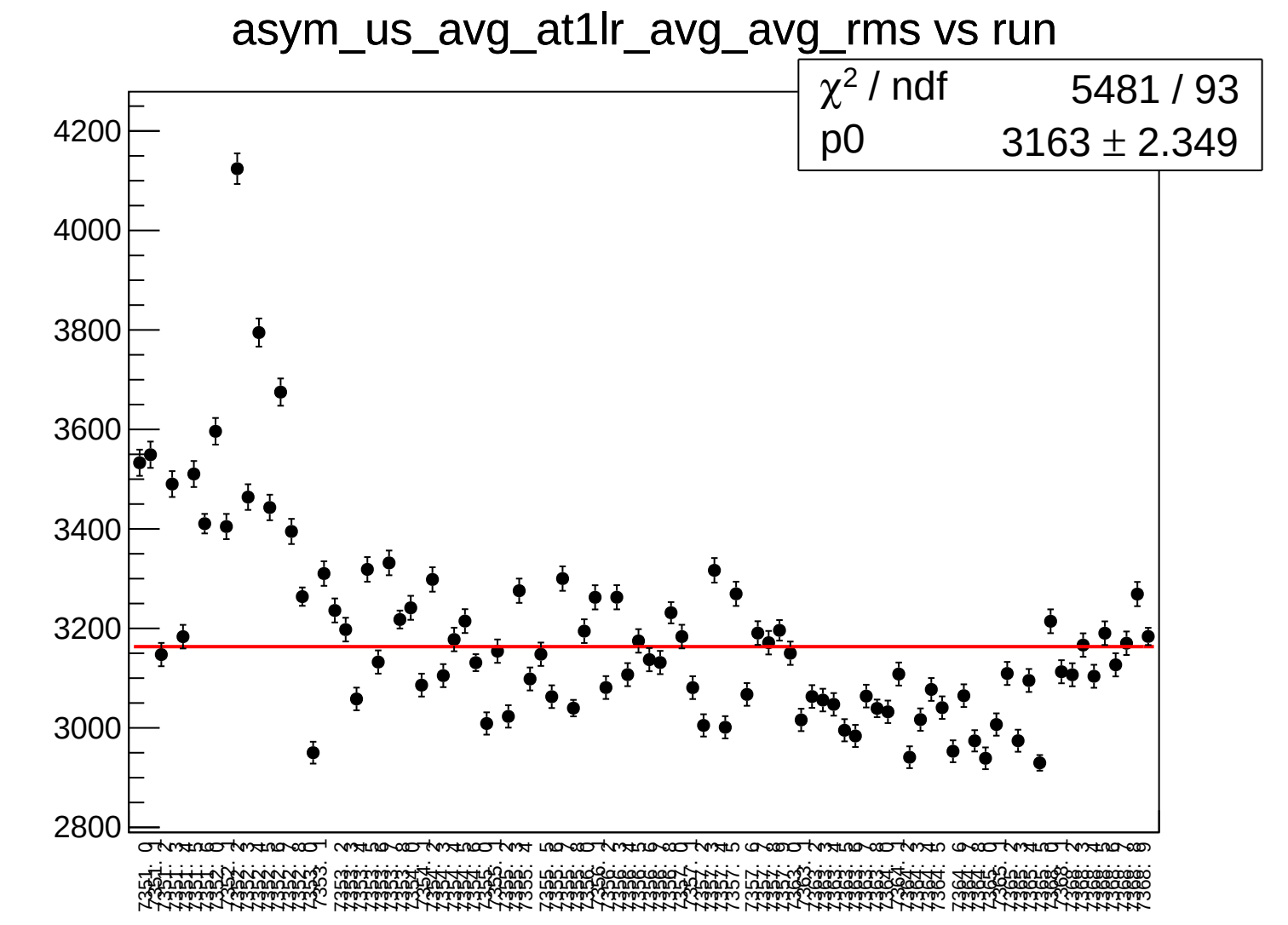

eigen_dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 143.2 / 93
p0 2190 ± 1.624
2320
2300
2280
2260
2240
2220
2200
2180
2160
2140
2120

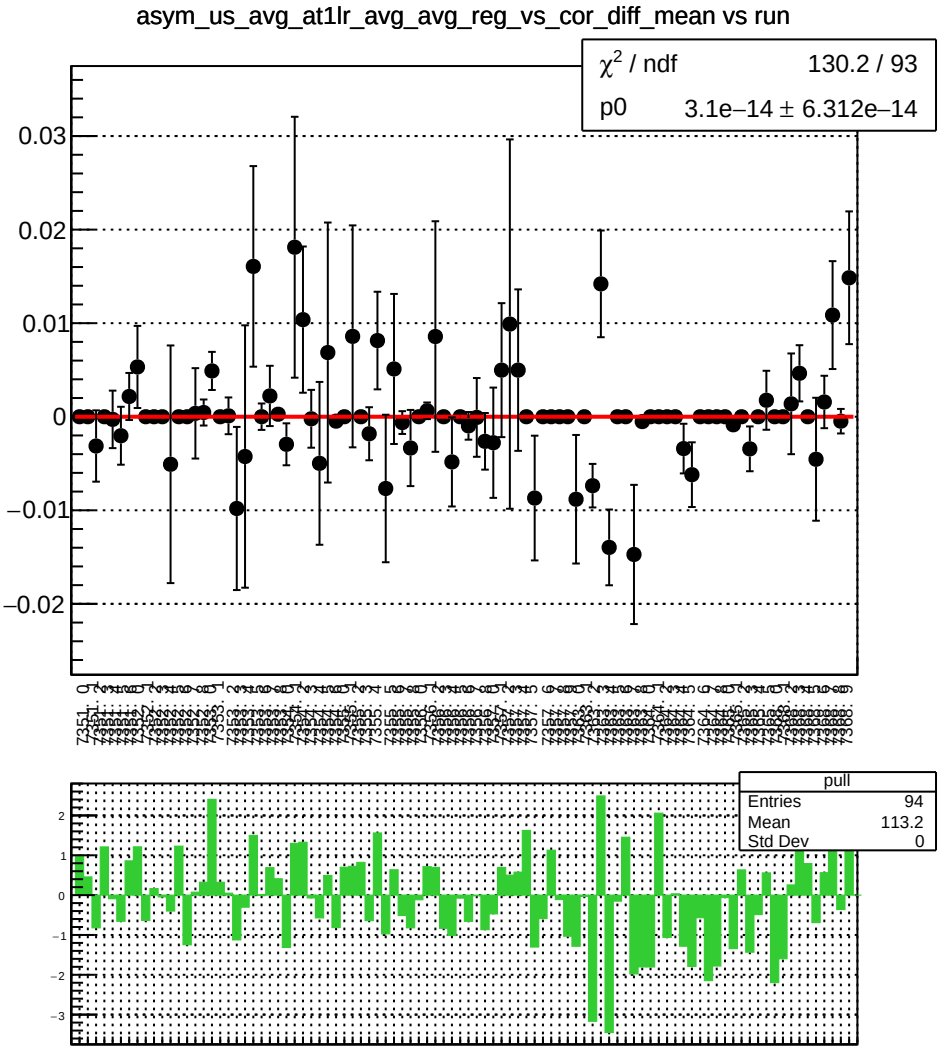

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_mean vs run
χ² / ndf 71.43 / 93
p0 2675 ± 2447
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −80.14
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

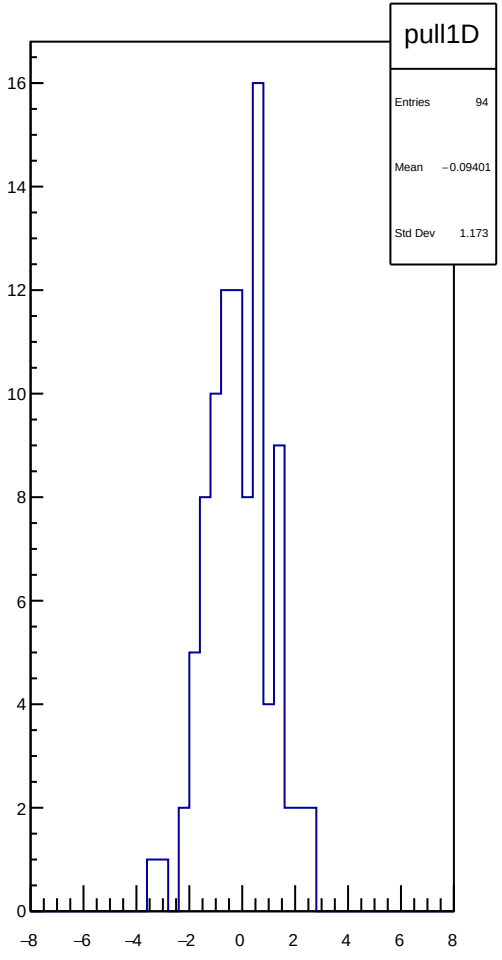

pull1D
Entries 94
Mean 0.01313
Std Dev 0.8716
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

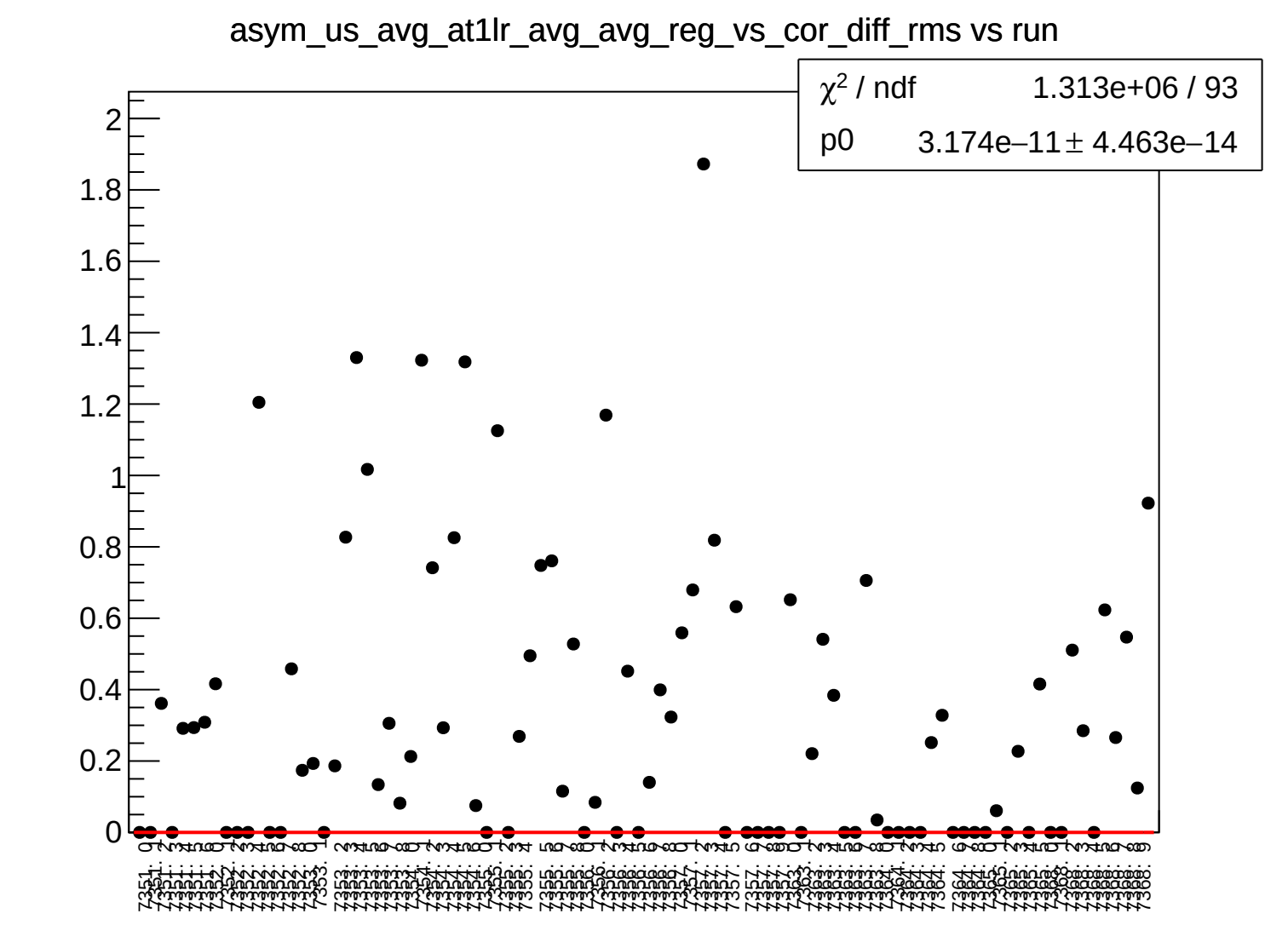

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.464e+04 / 93
p0 2324 ± 1.731
3200
3000
2800
2600
2400
2200
2000

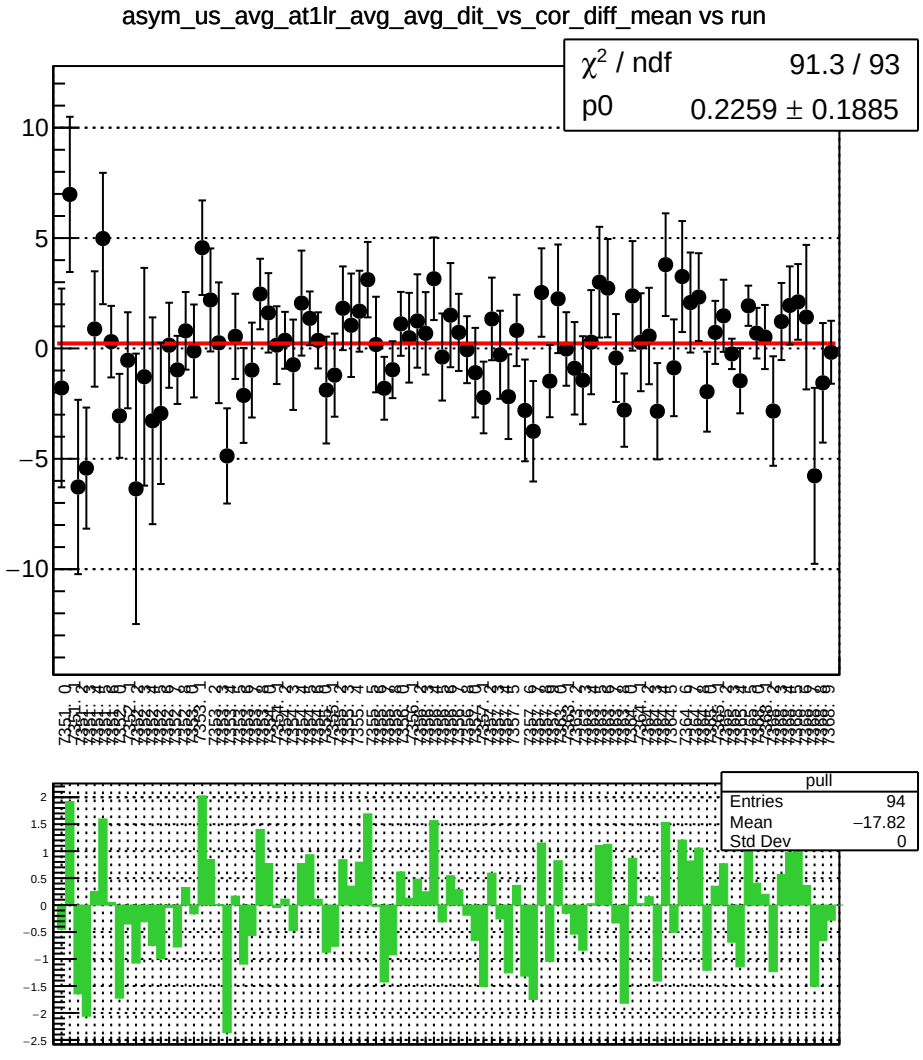

asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 79.44 / 93
p0 −5559 ± 3322
pull
Entries 94
Mean 894.3
Std Dev 0
pull1D
Entries 94
Mean 0.00192
Std Dev 0.9193

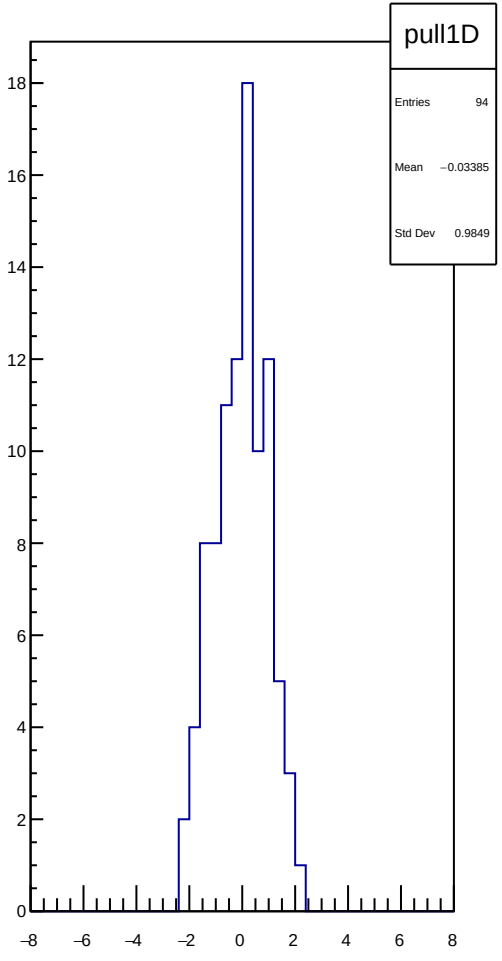

asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 5481 / 93
p0 3163 ± 2.349
4200
4000
3800
3600
3400
3200
3000
2800

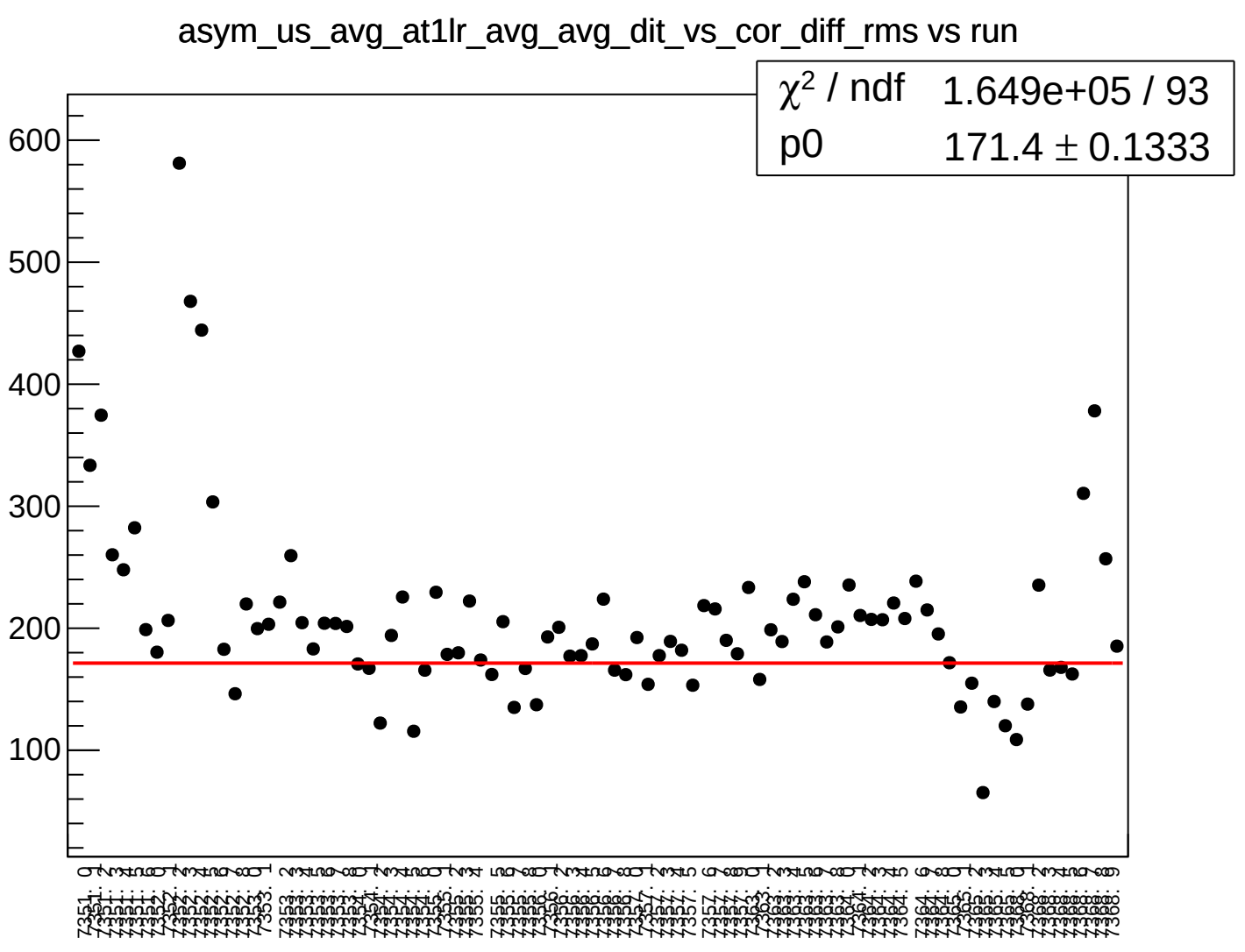

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 130.2 / 93
p0 3.1e−14 ± 6.312e−14
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 94
Mean 113.2
Std Dev 0
2
1
0
−1
−2
−3

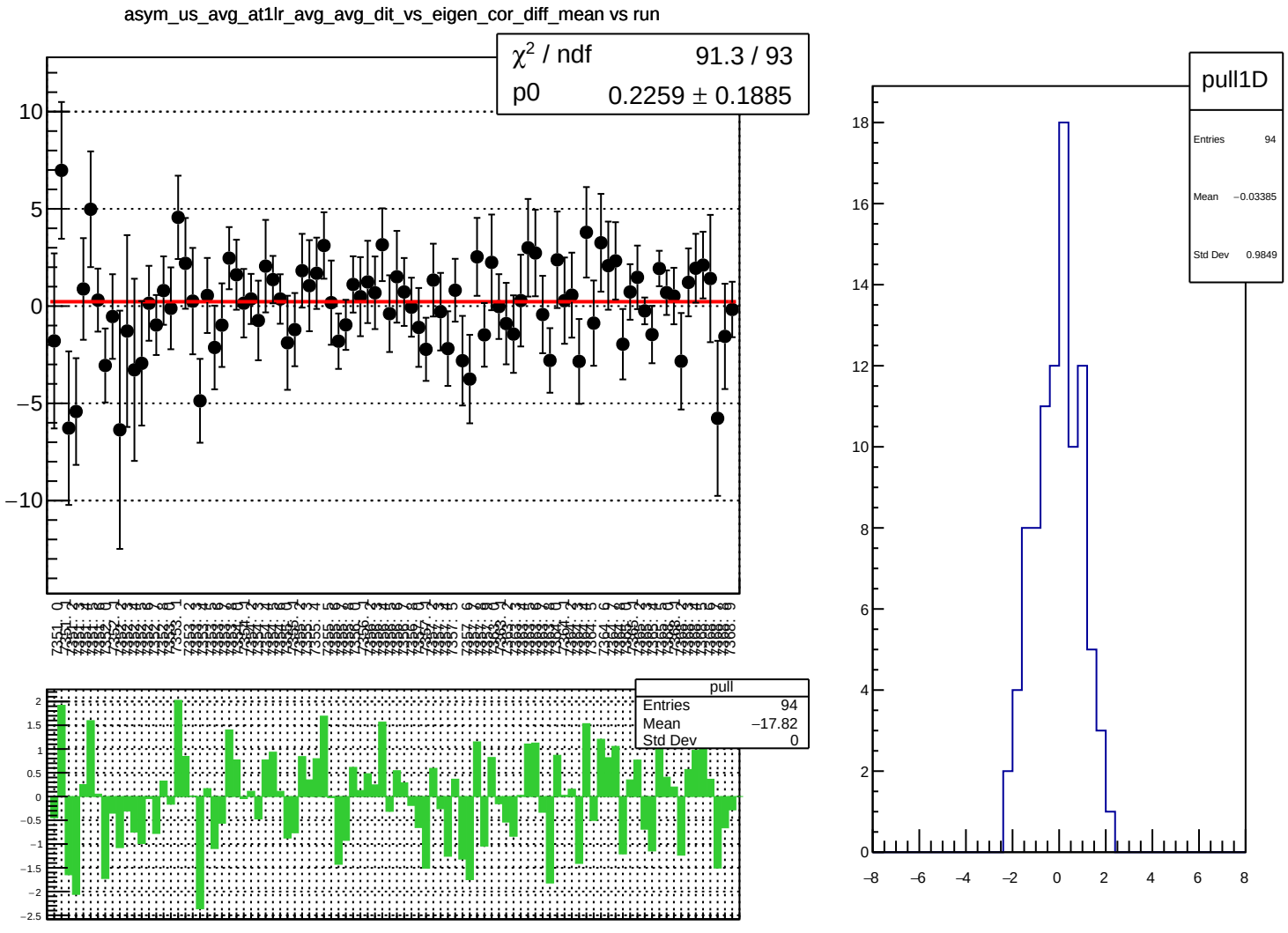

pull1D
Entries 94
Mean −0.09401
Std Dev 1.173
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

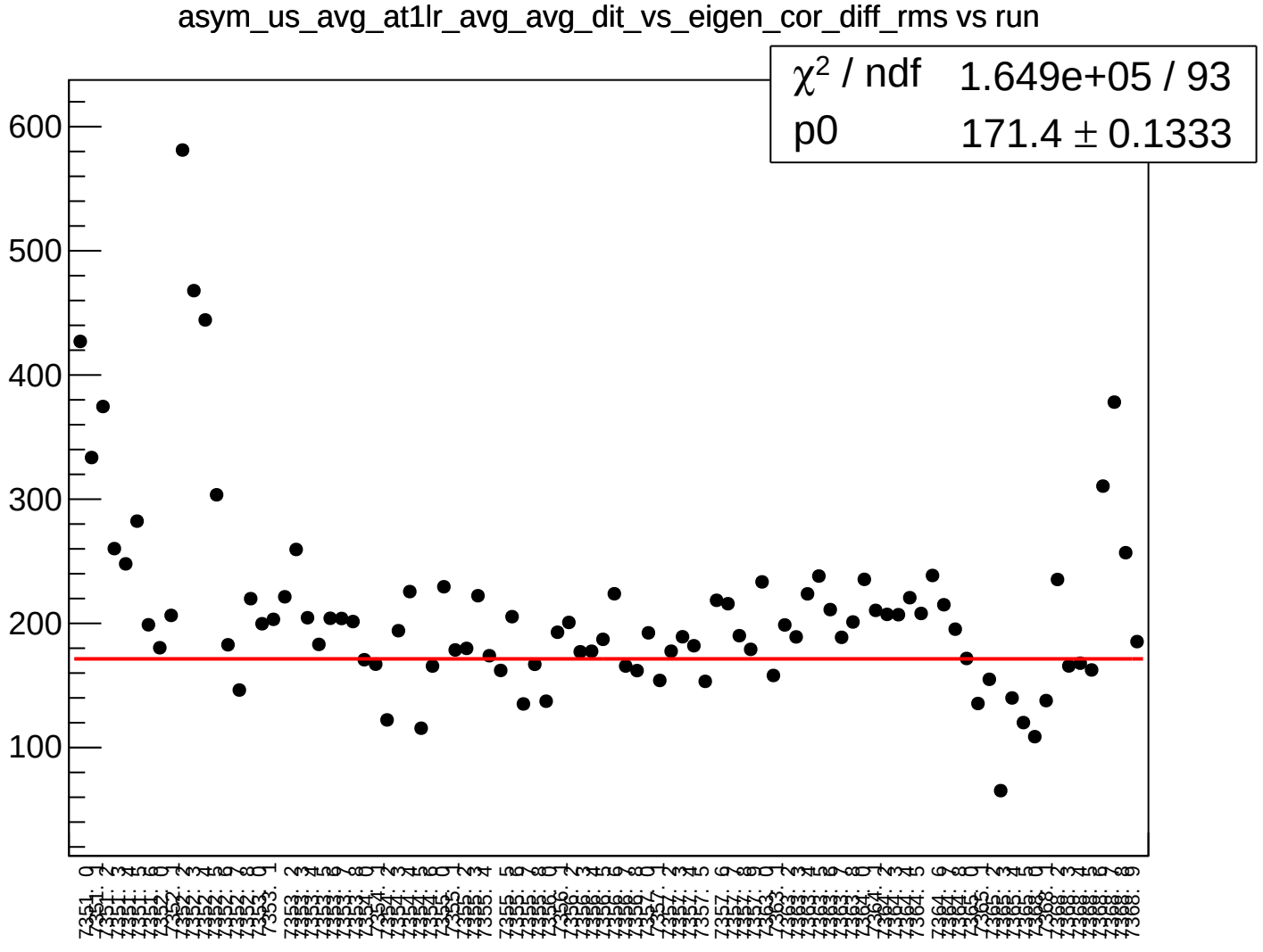

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.313e+06 / 93
p0 3.174e−11 ± 4.463e−14
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

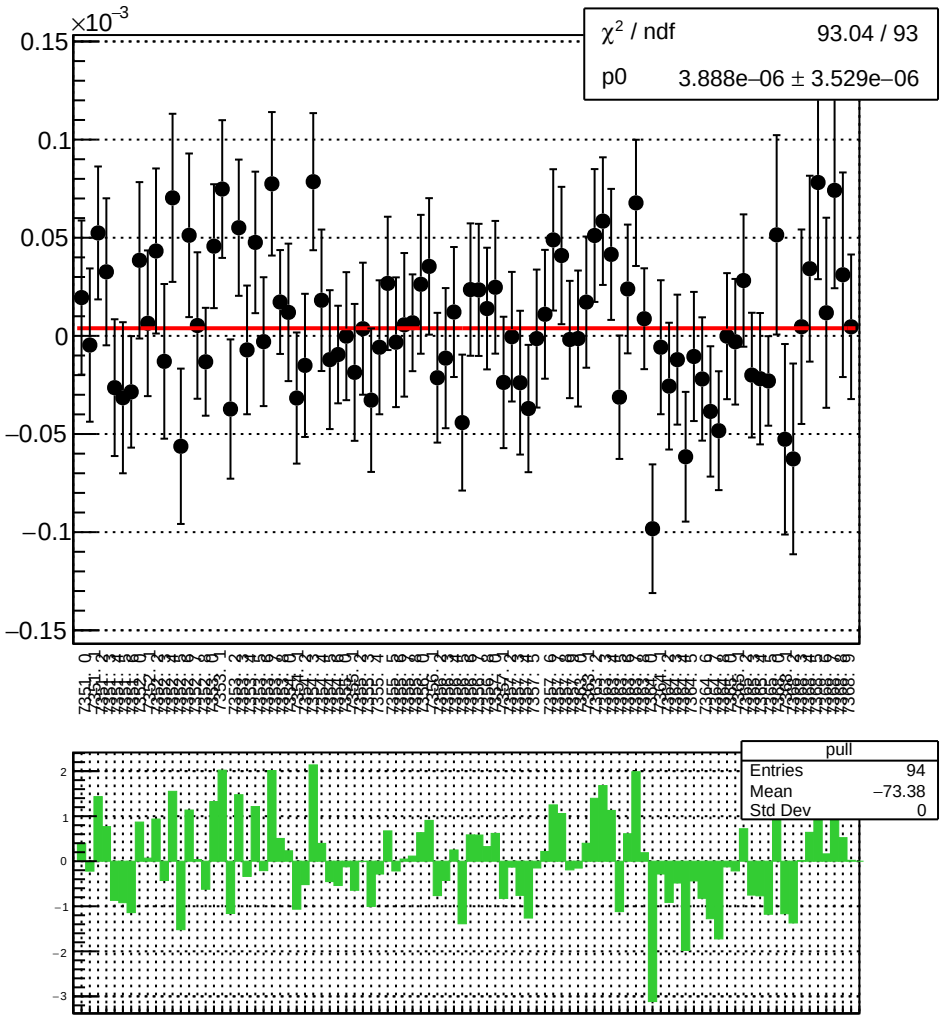

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 91.3 / 93
p0 0.2259 ± 0.1885
pull
Entries 94
Mean −17.82
Std Dev 0

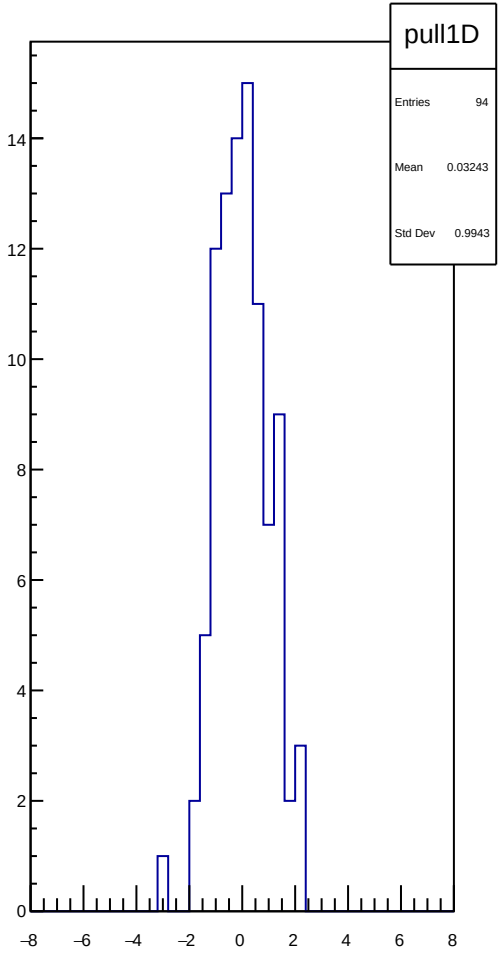

pull1D
Entries 94
Mean −0.03385
Std Dev 0.9849

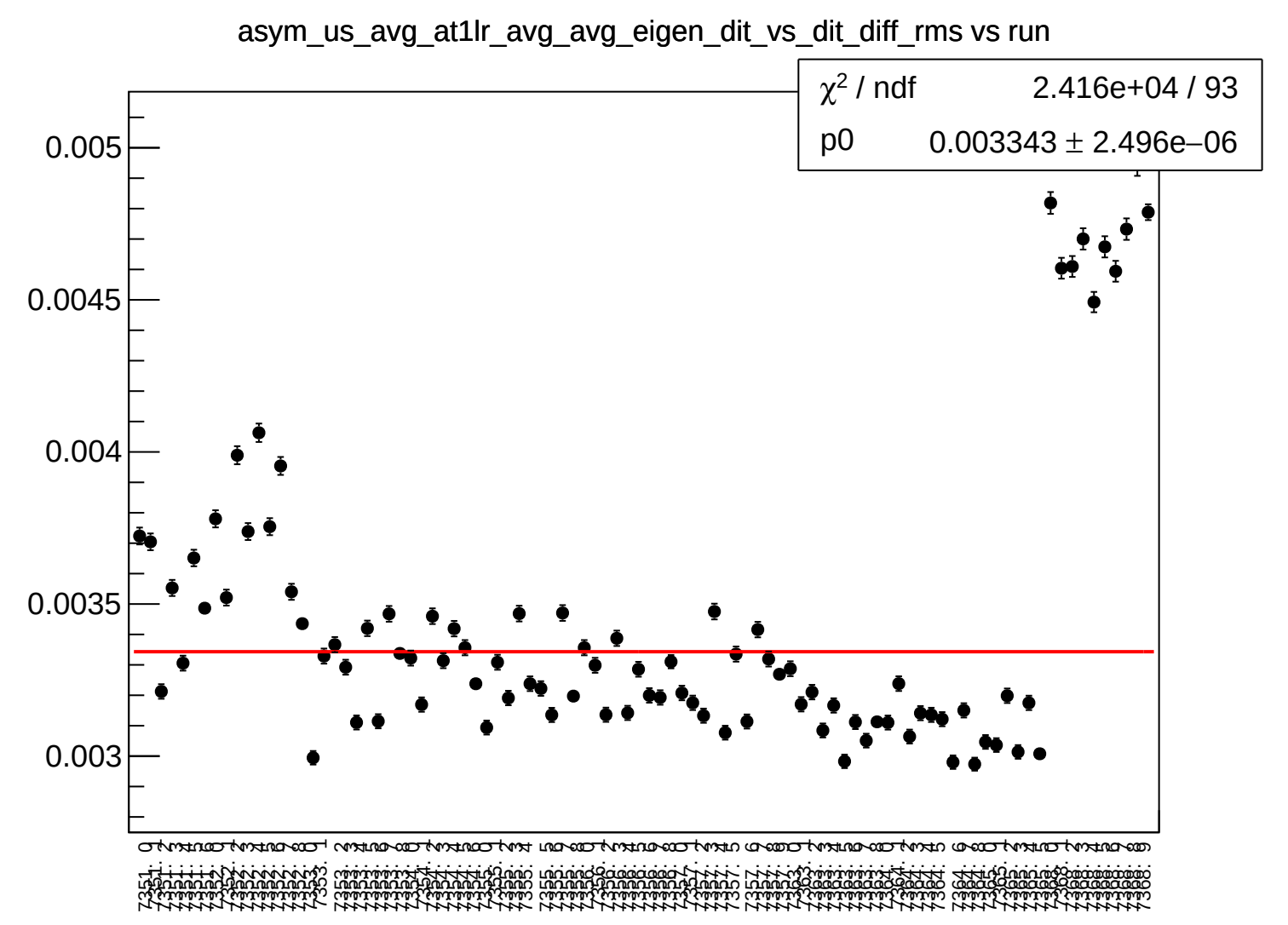

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.649e+05 / 93
p0 171.4 ± 0.1333
600
500
400
300
200
100

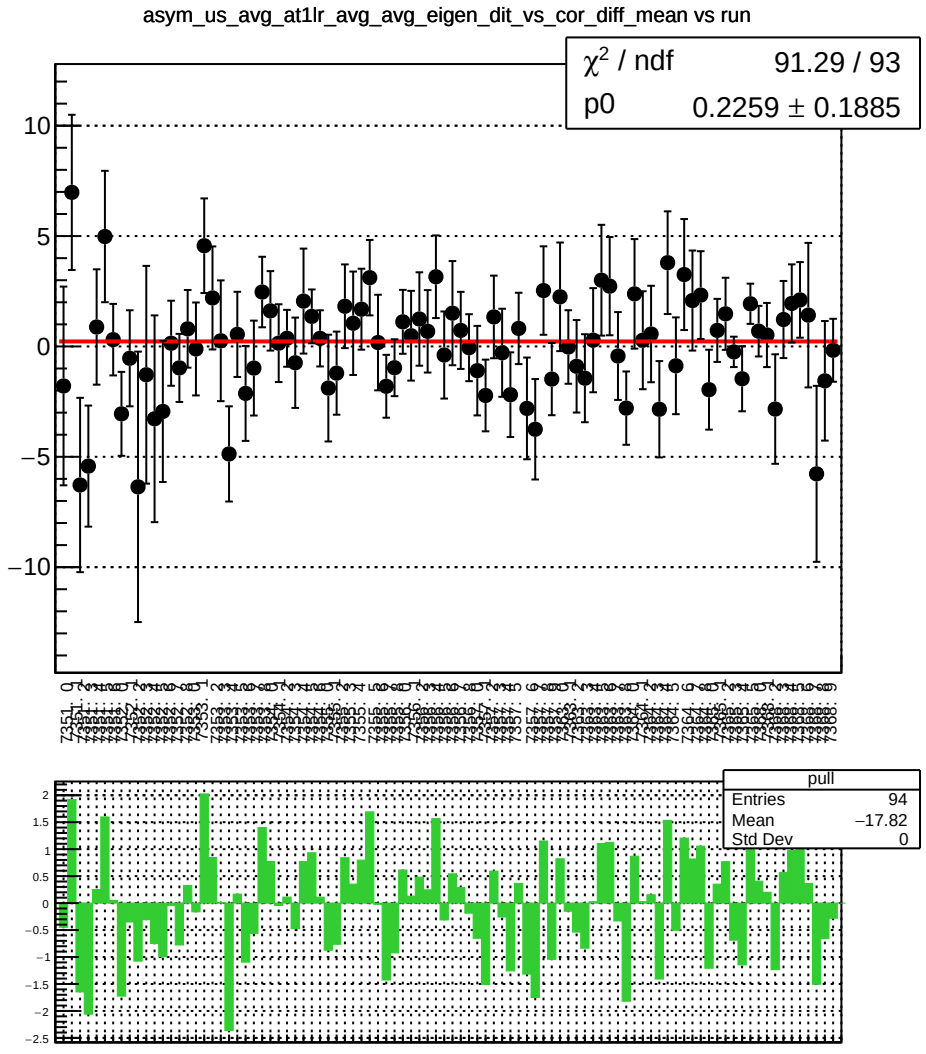

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.3 / 93
p0 0.2259 ± 0.1885
pull
Entries 94
Mean −17.82
Std Dev 0
pull1D
Entries 94
Mean −0.03385
Std Dev 0.9849

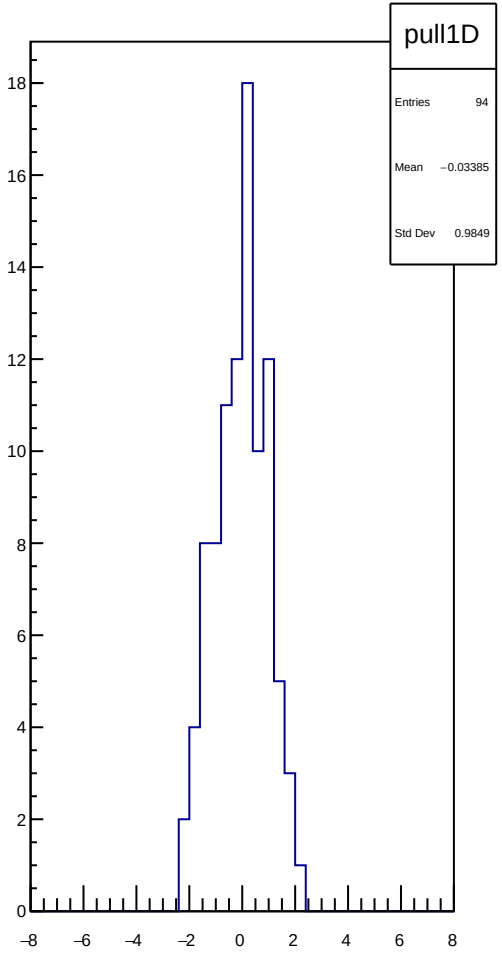

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.649e+05 / 93
p0 171.4 ± 0.1333
600
500
400
300
200
100

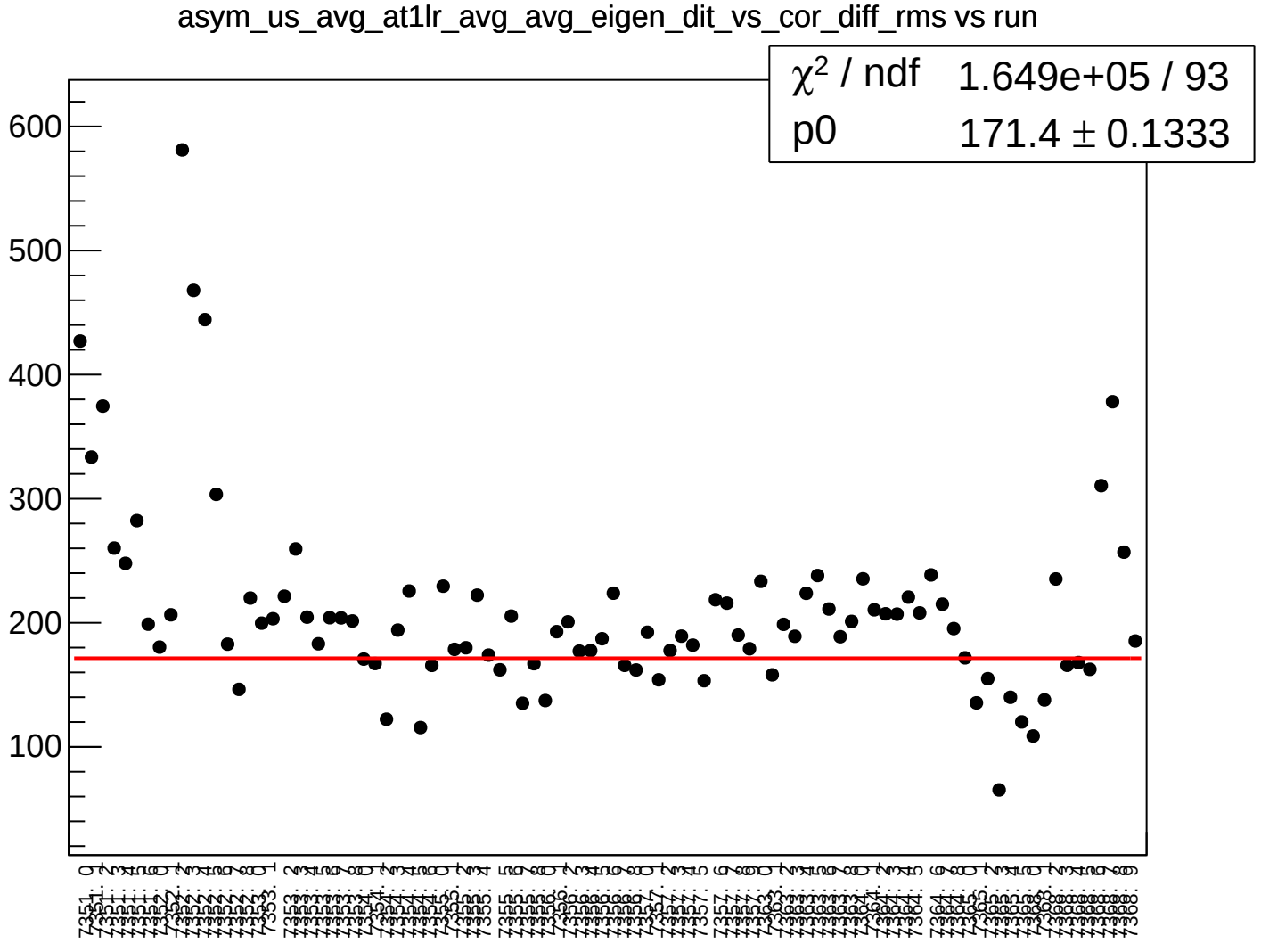

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93.04 / 93
p0 3.888e−06 ± 3.529e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 94
Mean −73.38
Std Dev 0
2
1
0
−1
−2
−3

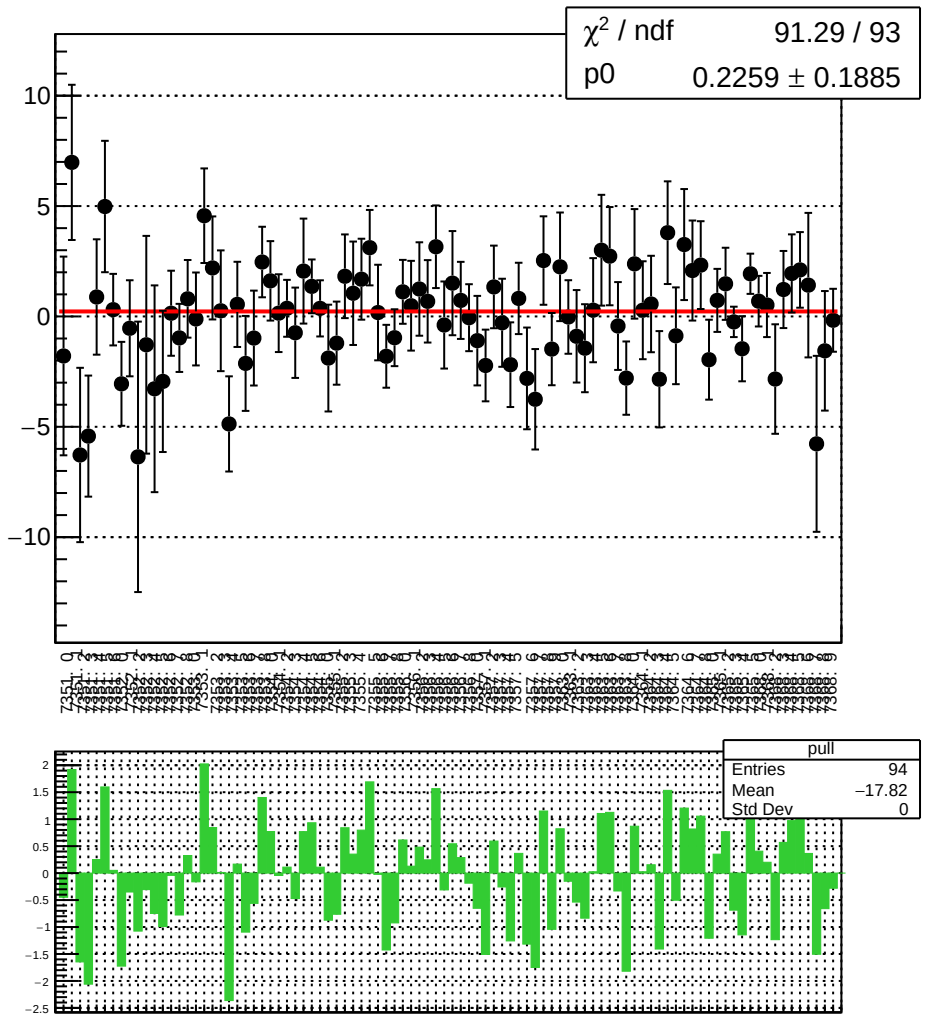

pull1D
Entries 94
Mean 0.03243
Std Dev 0.9943
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

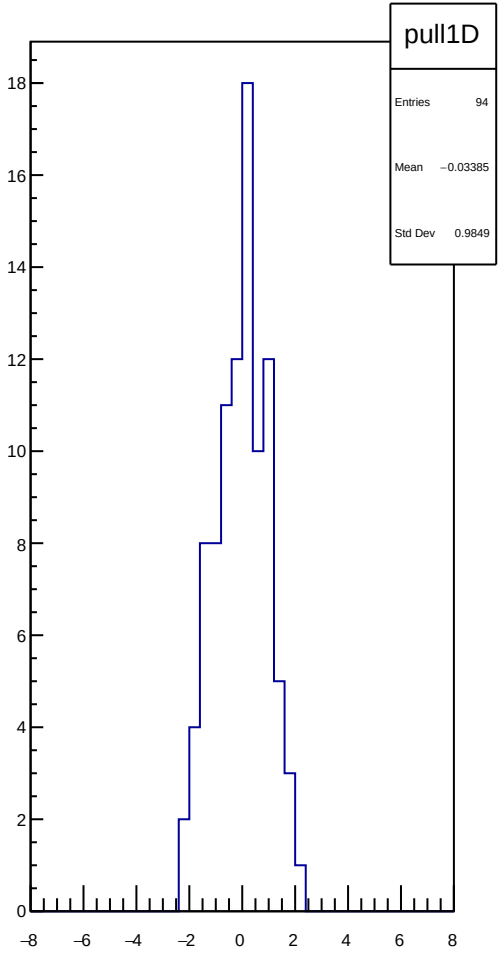

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.416e+04 / 93
p0 0.003343 ± 2.496e−06
0.005
0.0045
0.004
0.0035
0.003

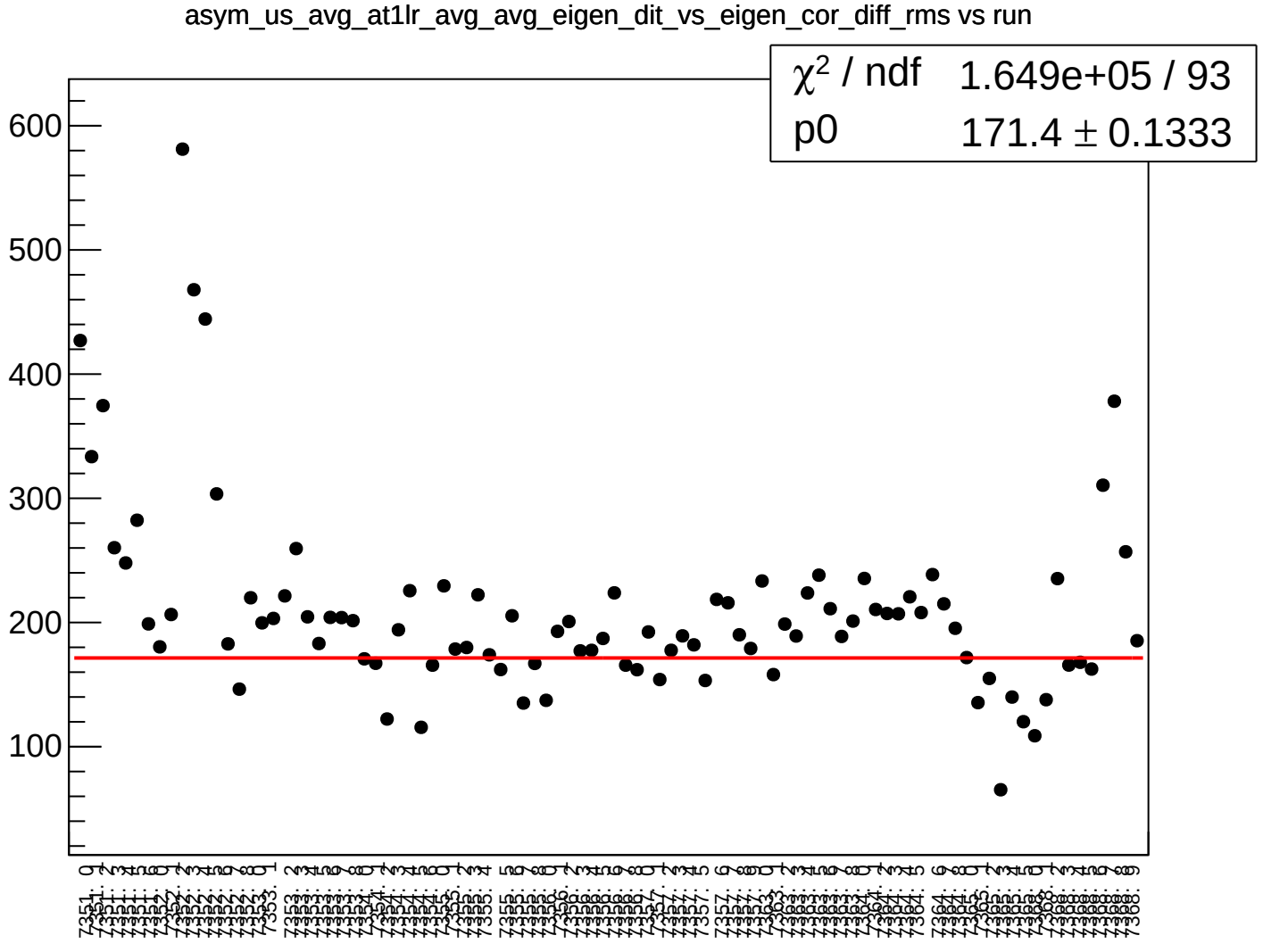

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.29 / 93
p0 0.2259 ± 0.1885
pull
Entries 94
Mean −17.82
Std Dev 0

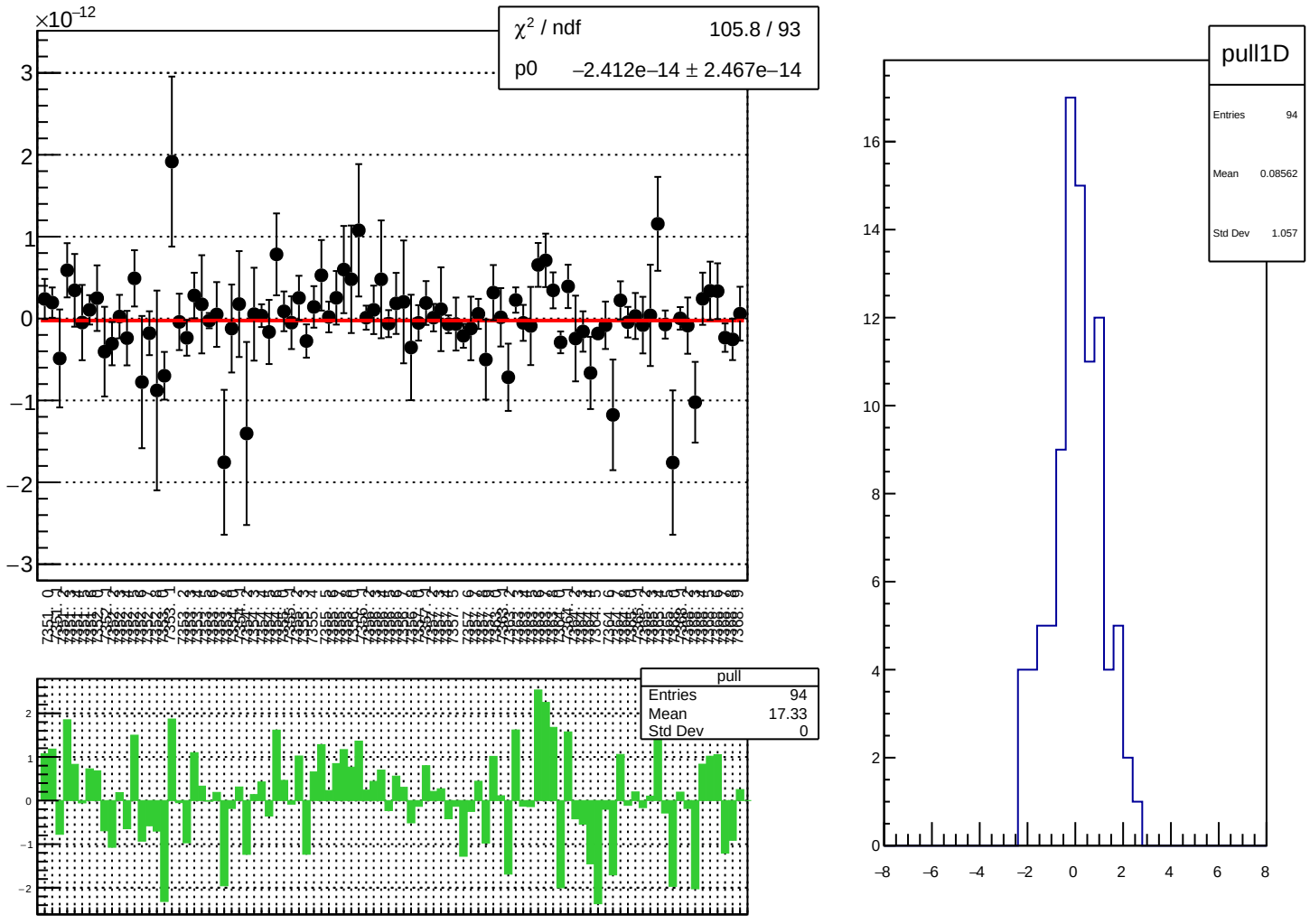

pull1D
Entries 94
Mean −0.03385
Std Dev 0.9849

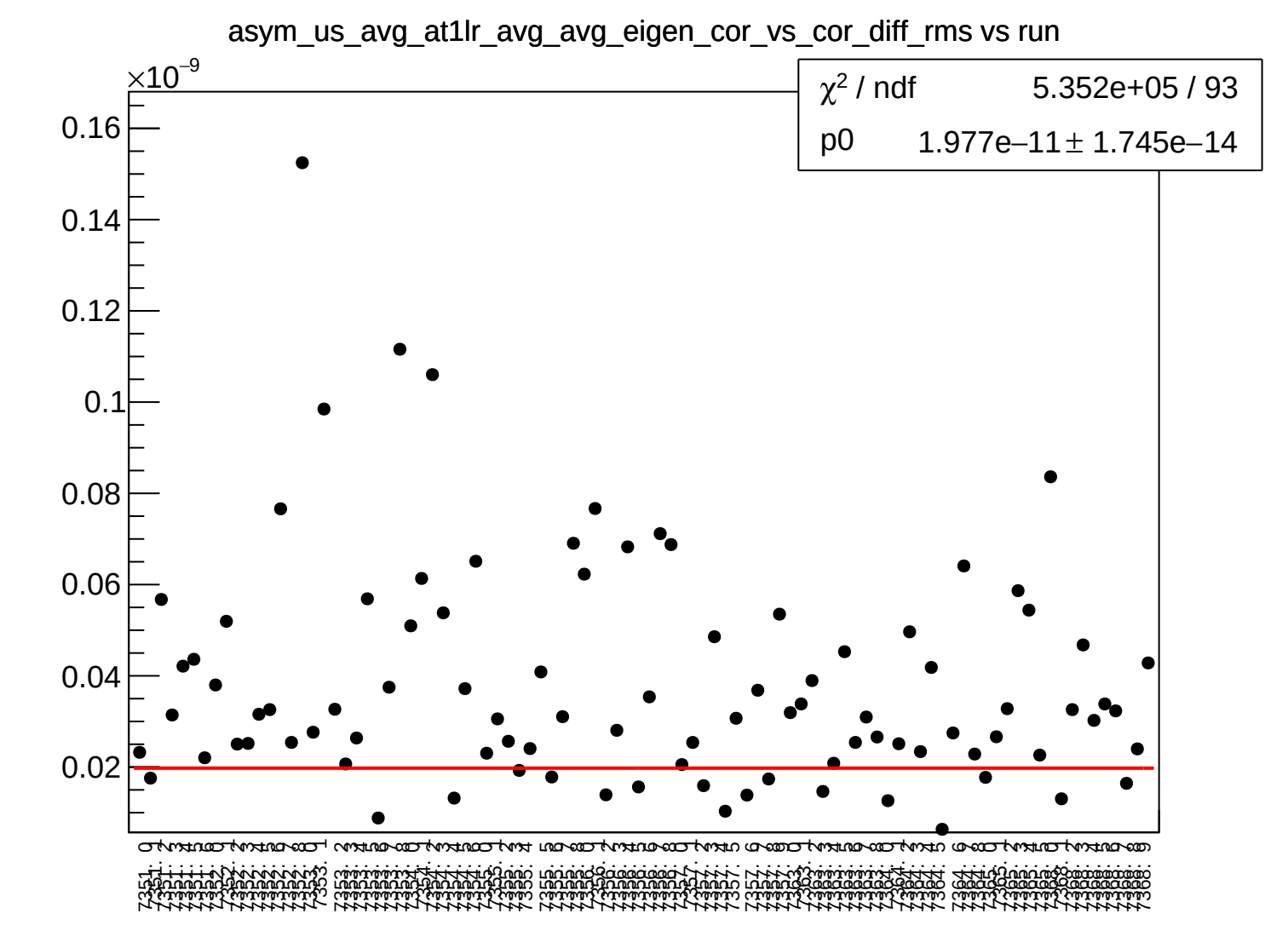

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.649e+05 / 93
p0 171.4 ± 0.1333
600
500
400
300
200
100

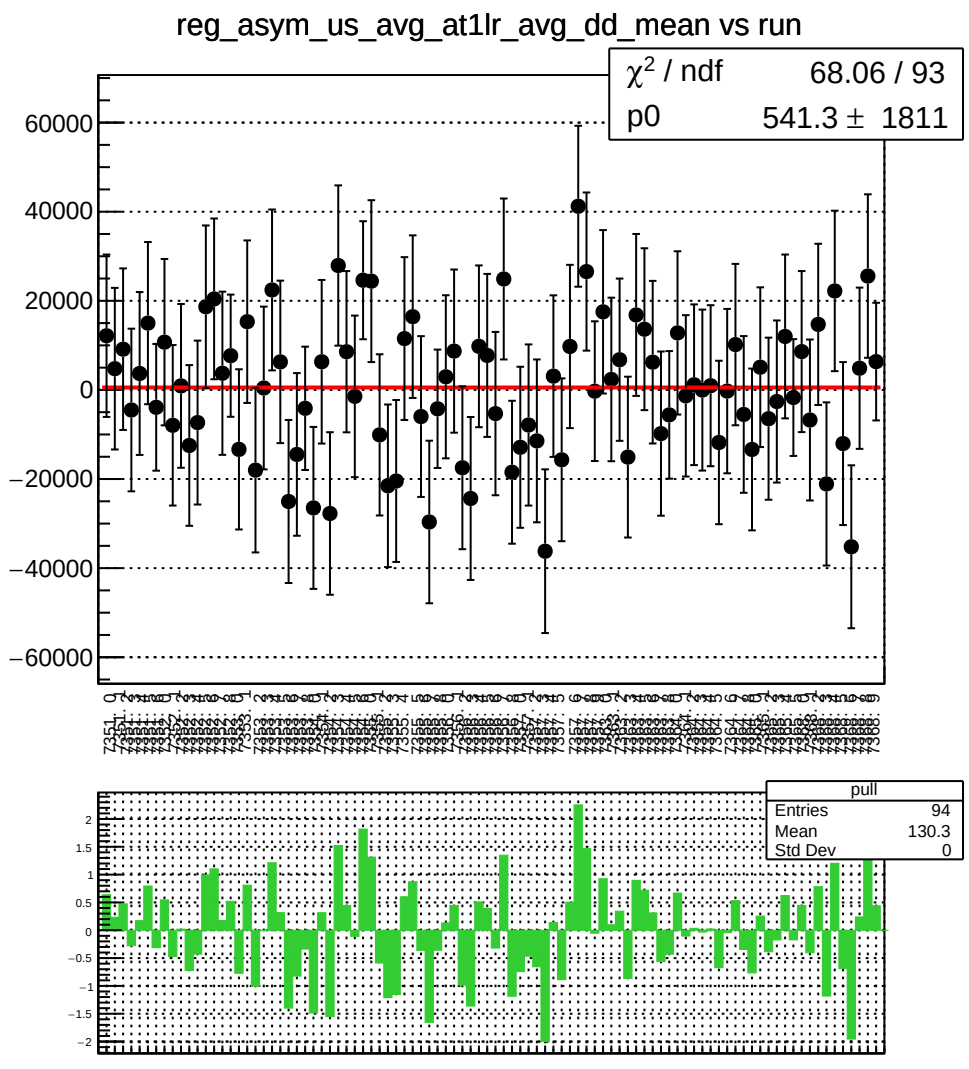

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.29 / 93
p0 0.2259 ± 0.1885
pull
Entries 94
Mean −17.82
Std Dev 0

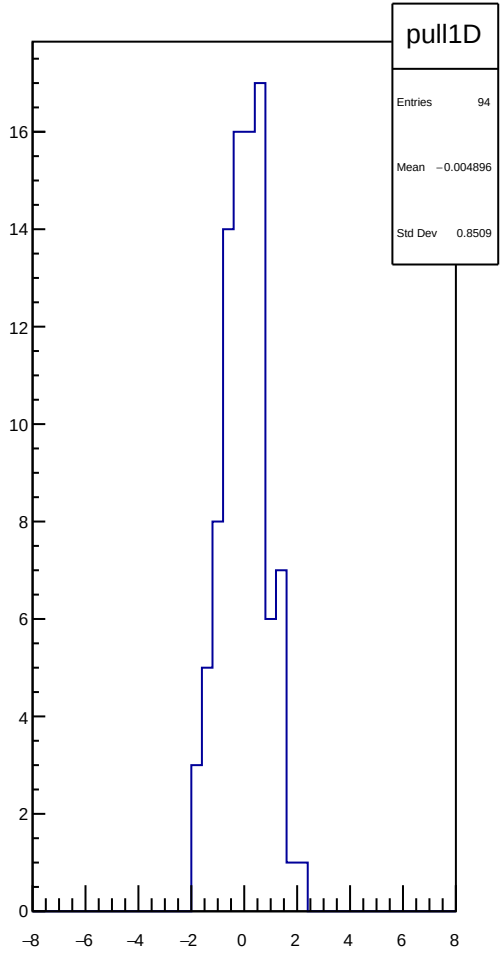

pull1D
Entries 94
Mean −0.03385
Std Dev 0.9849

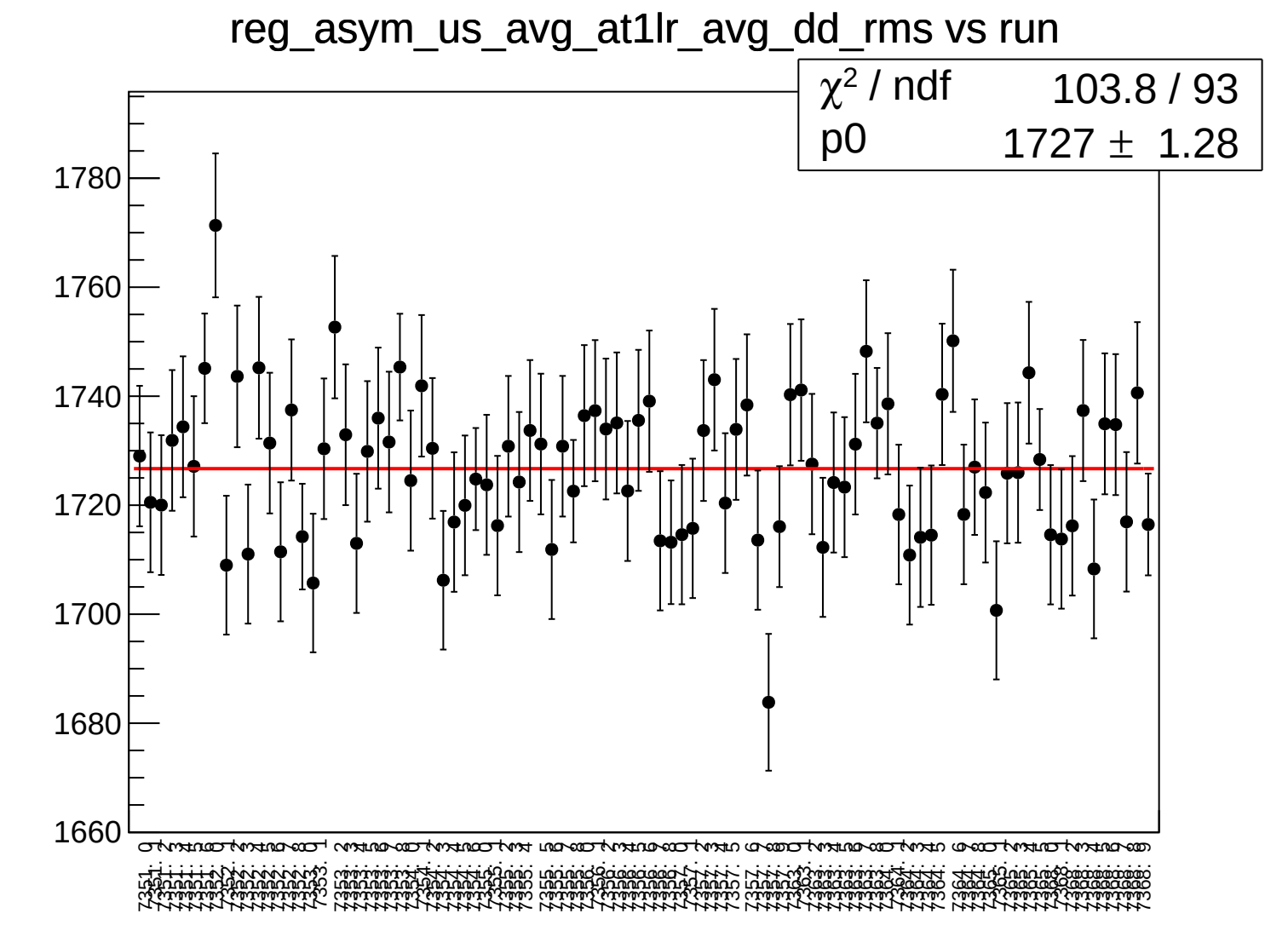

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.649e+05 / 93
p0 171.4 ± 0.1333
600
500
400
300
200
100

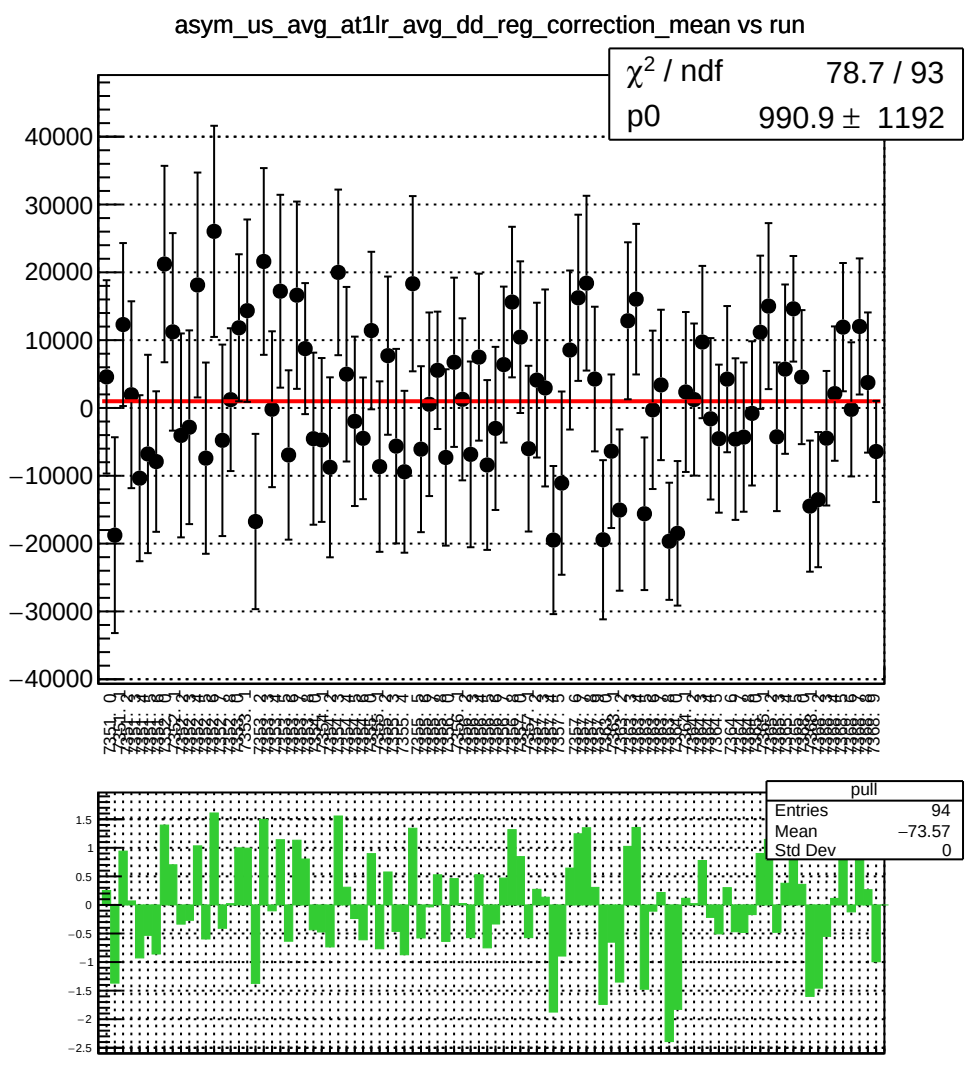

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 105.8 / 93
p0 −2.412e−14 ± 2.467e−14
pull
Entries 94
Mean 17.33
Std Dev 0
pull1D
Entries 94
Mean 0.08562
Std Dev 1.057

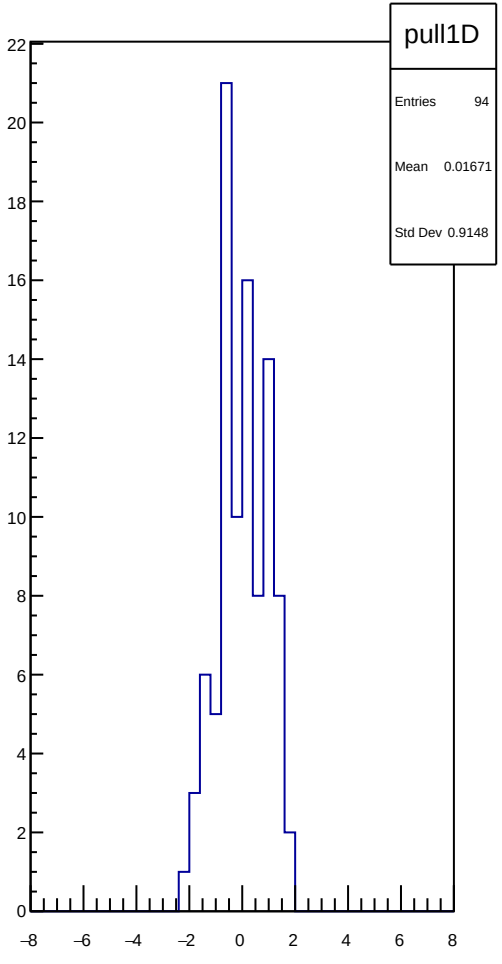

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.352e+05 / 93
p0 1.977e−11 ± 1.745e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

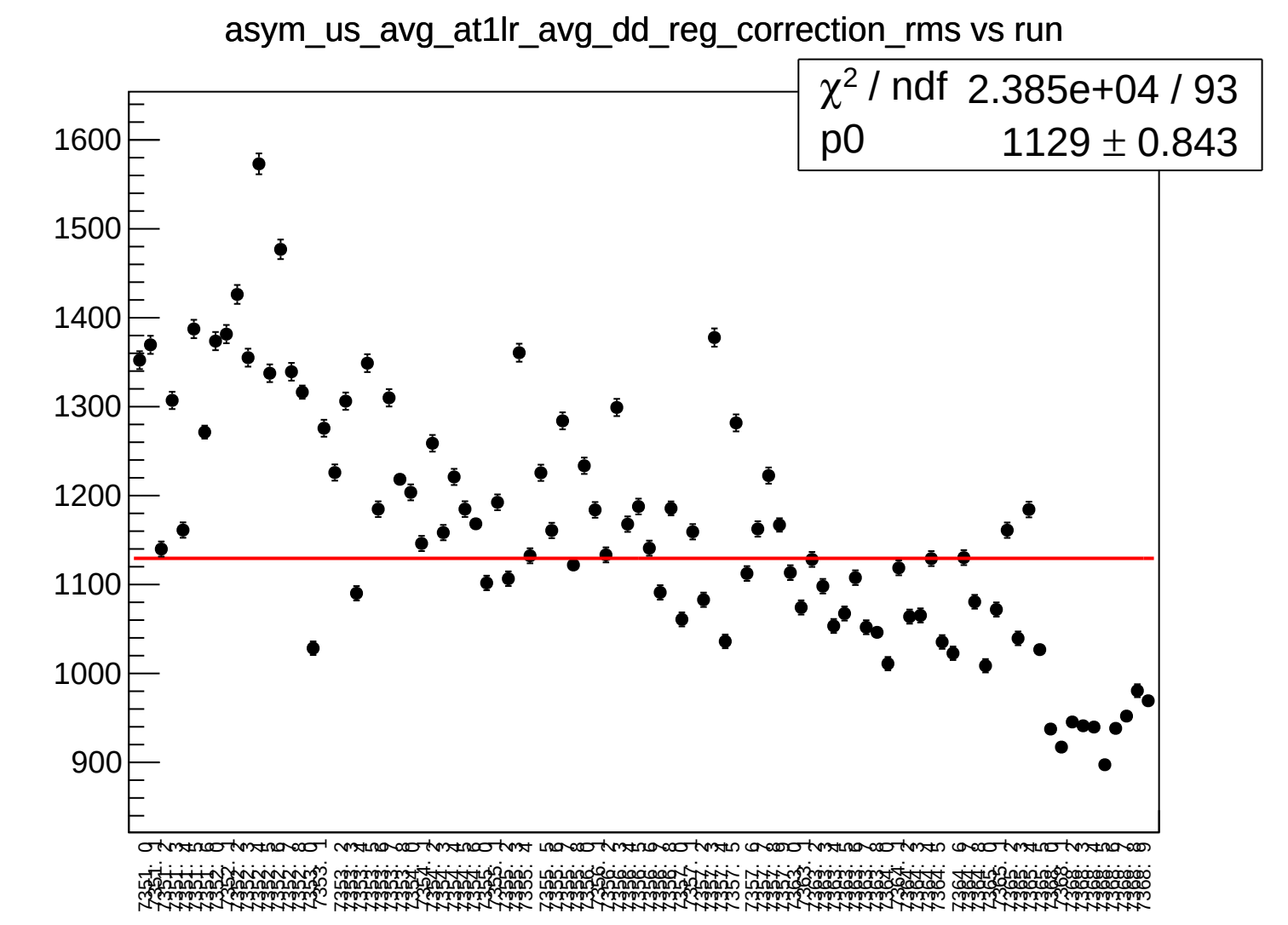

reg_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 68.06 / 93
p0 541.3 ± 1811
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 130.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

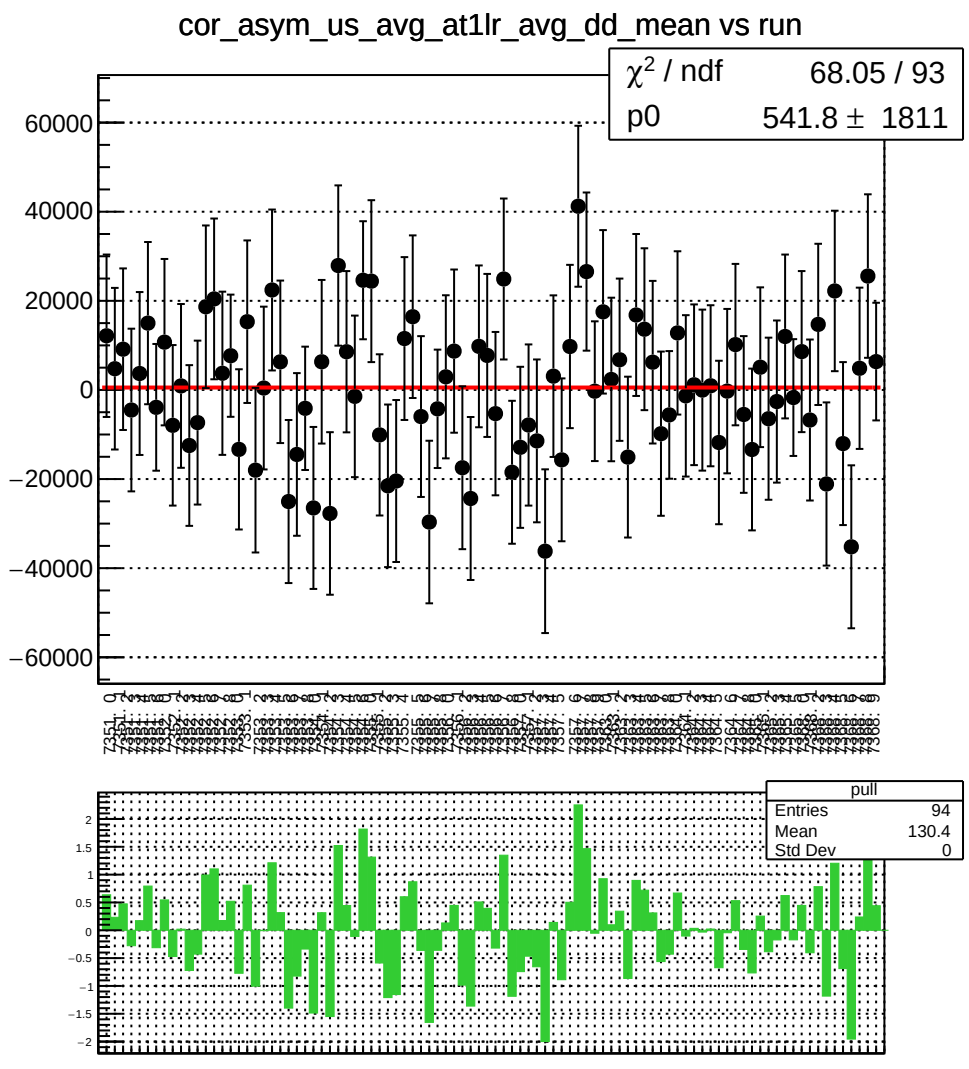

pull1D
Entries 94
Mean −0.004896
Std Dev 0.8509
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

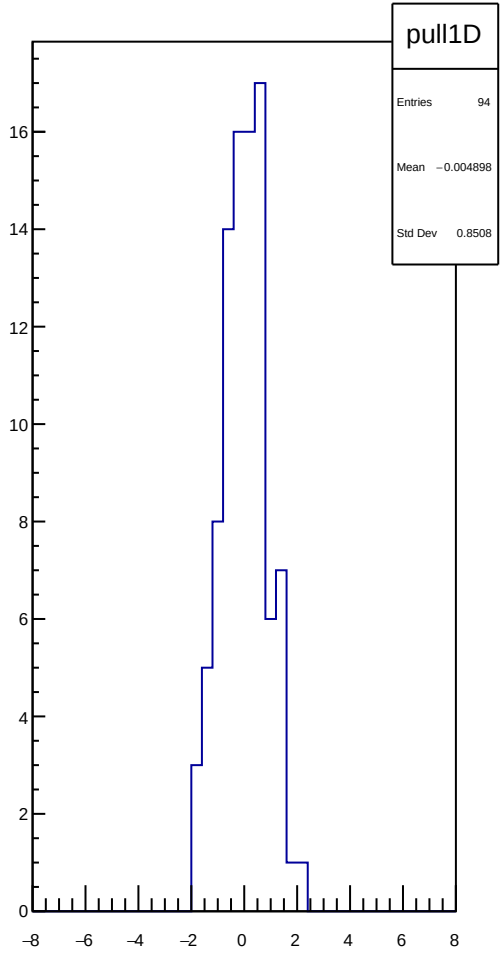

reg_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 103.8 / 93
p0 1727 ± 1.28
1780
1760
1740
1720
1700
1680
1660

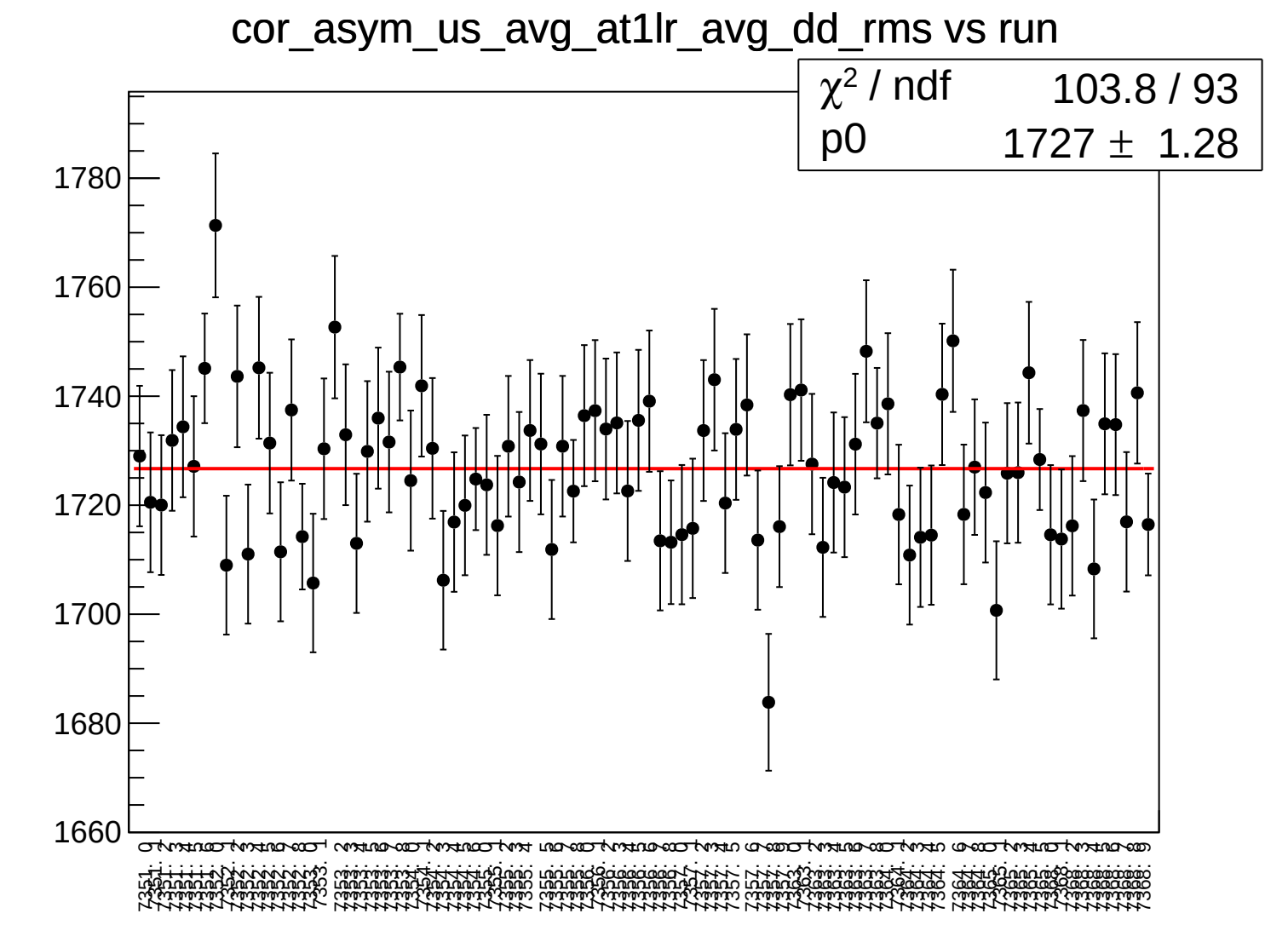

asym_us_avg_at1lr_avg_dd_reg_correction_mean vs run
χ² / ndf 78.7 / 93
p0 990.9 ± 1192
pull
Entries 94
Mean −73.57
Std Dev 0

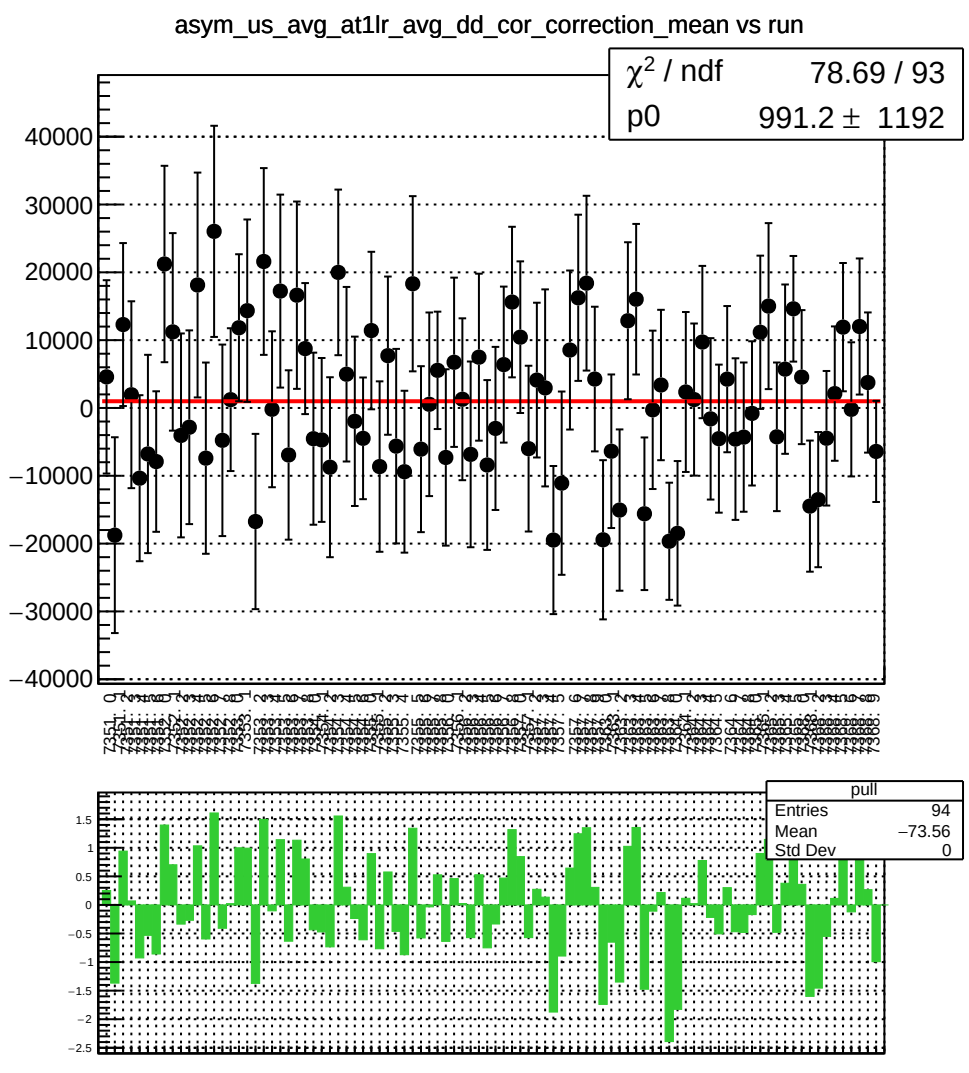

pull1D
Entries 94
Mean 0.01671
Std Dev 0.9148

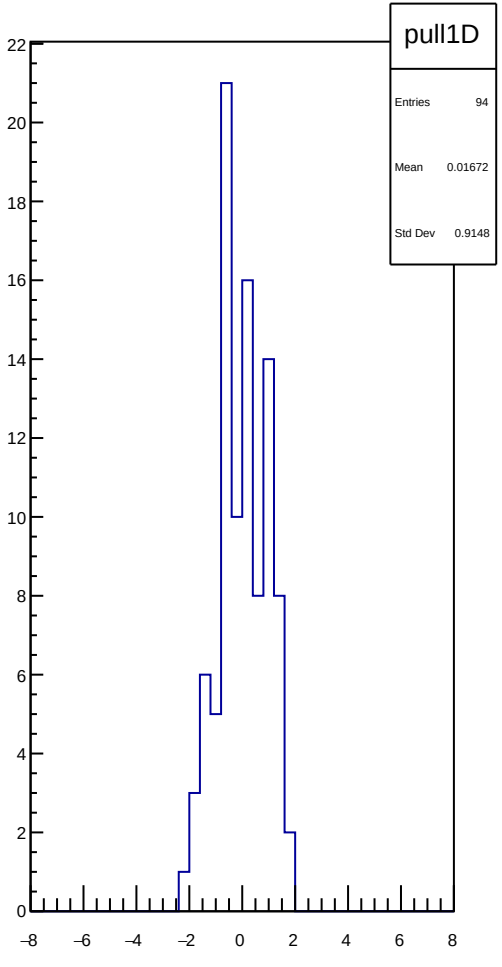

asym_us_avg_at1lr_avg_dd_reg_correction_rms vs run
χ² / ndf 2.385e+04 / 93
p0 1129 ± 0.843
1600
1500
1400
1300
1200
1100
1000
900

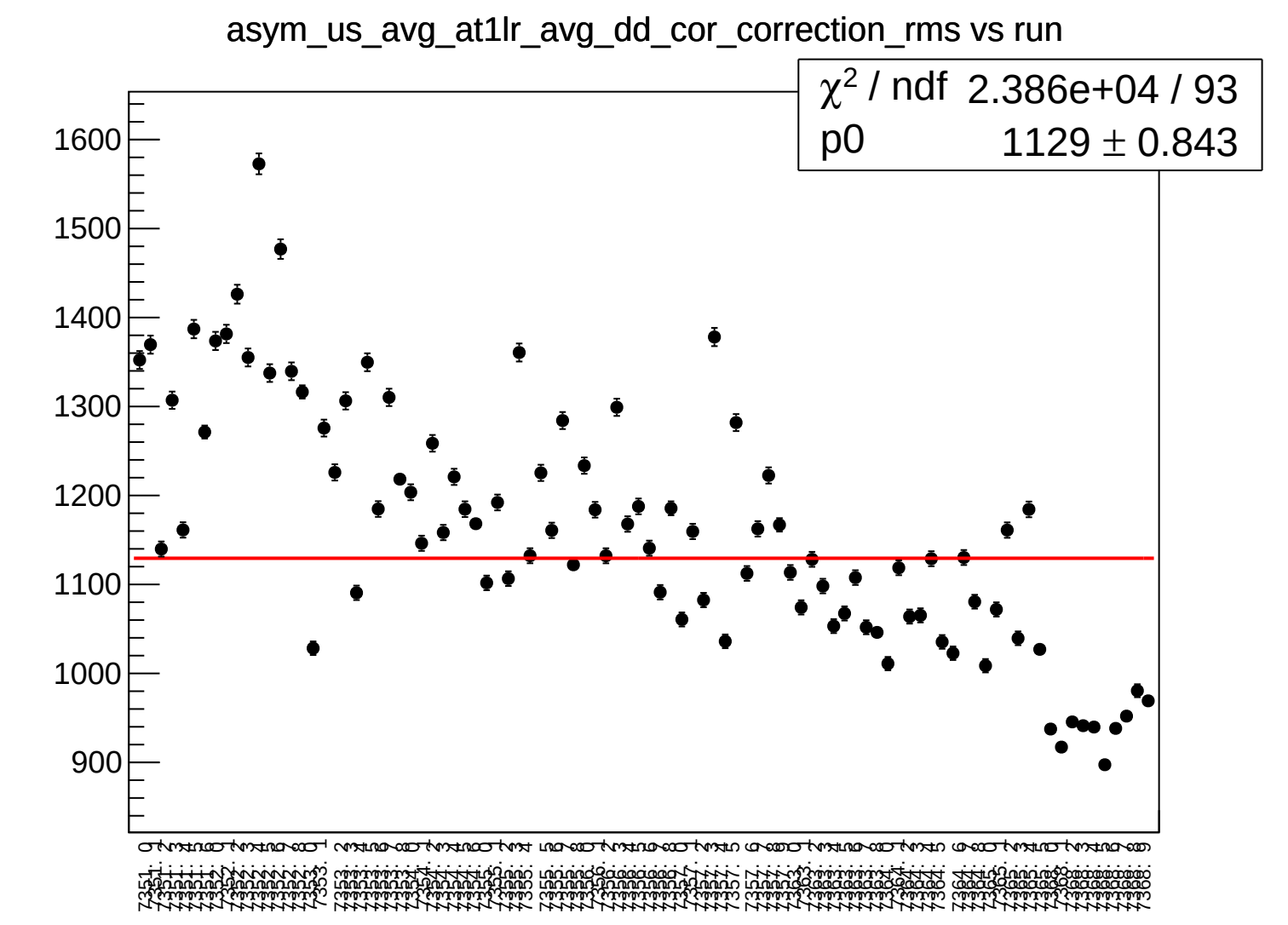

cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 68.05 / 93
p0 541.8 ± 1811
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 130.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

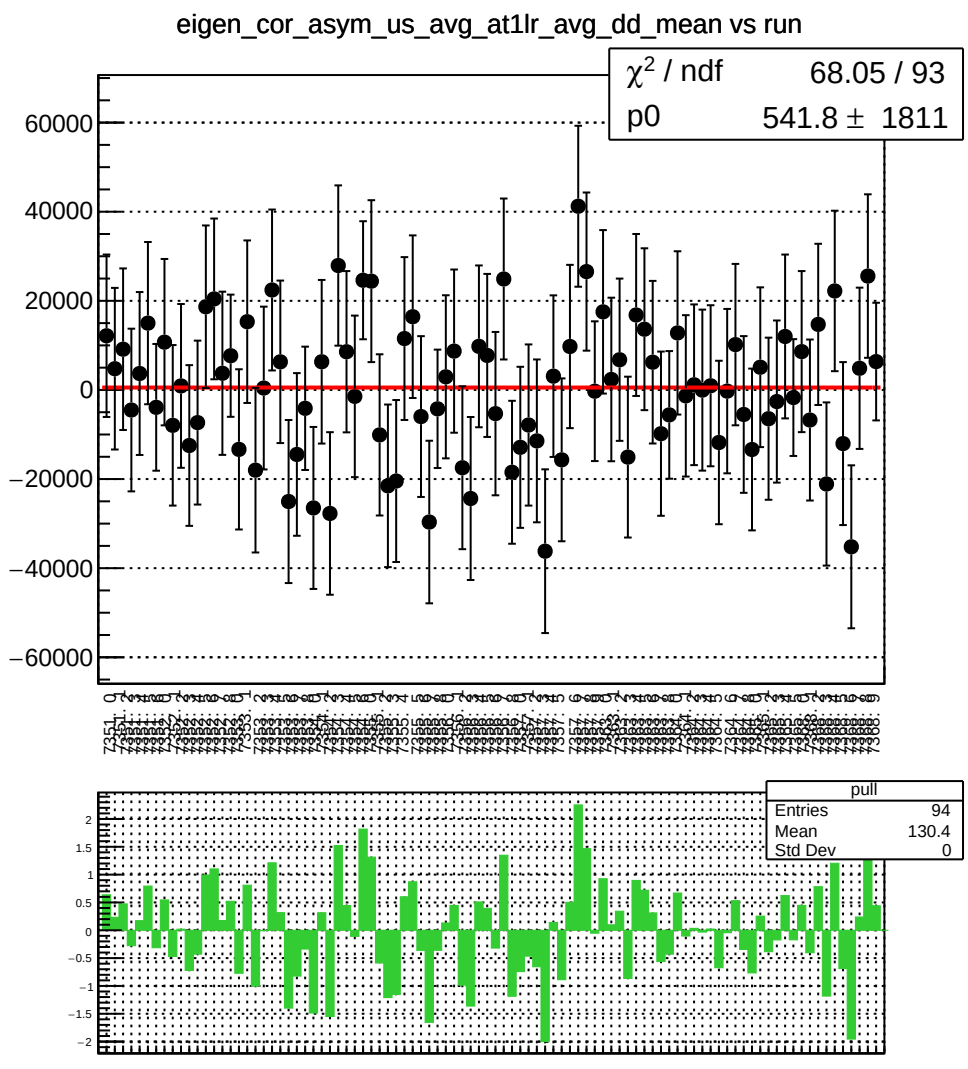

pull1D
Entries 94
Mean −0.004898
Std Dev 0.8508
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

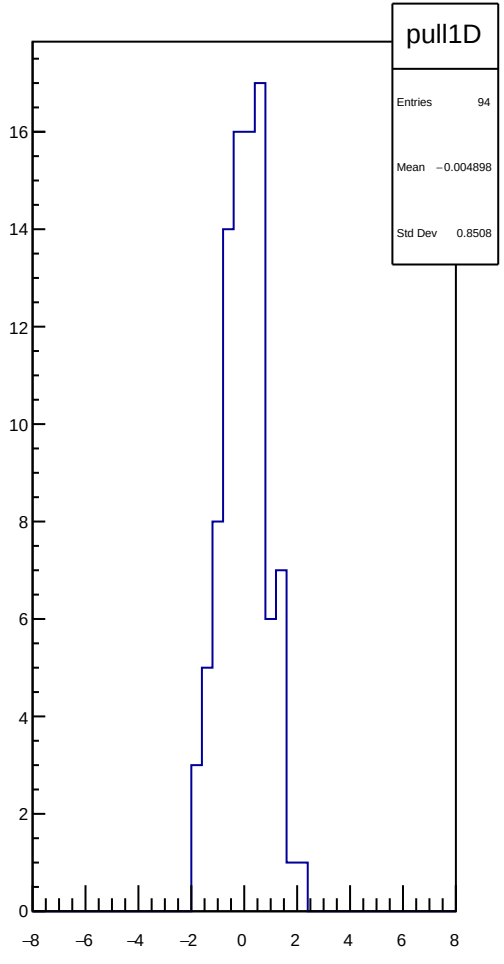

cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 103.8 / 93
p0 1727 ± 1.28
1780
1760
1740
1720
1700
1680
1660

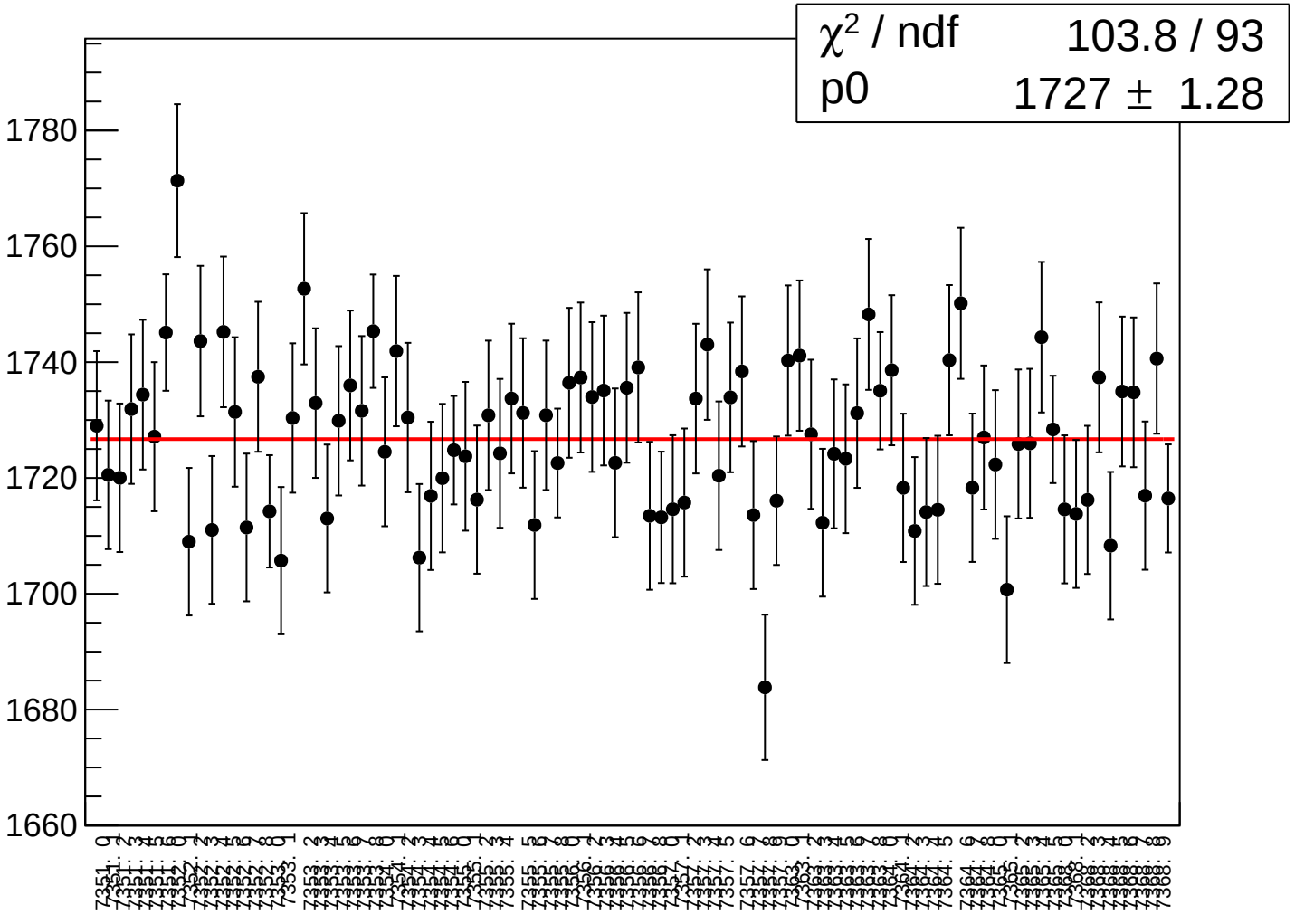

asym_us_avg_at1lr_avg_dd_cor_correction_mean vs run
χ² / ndf 78.69 / 93
p0 991.2 ± 1192
pull
Entries 94
Mean −73.56
Std Dev 0

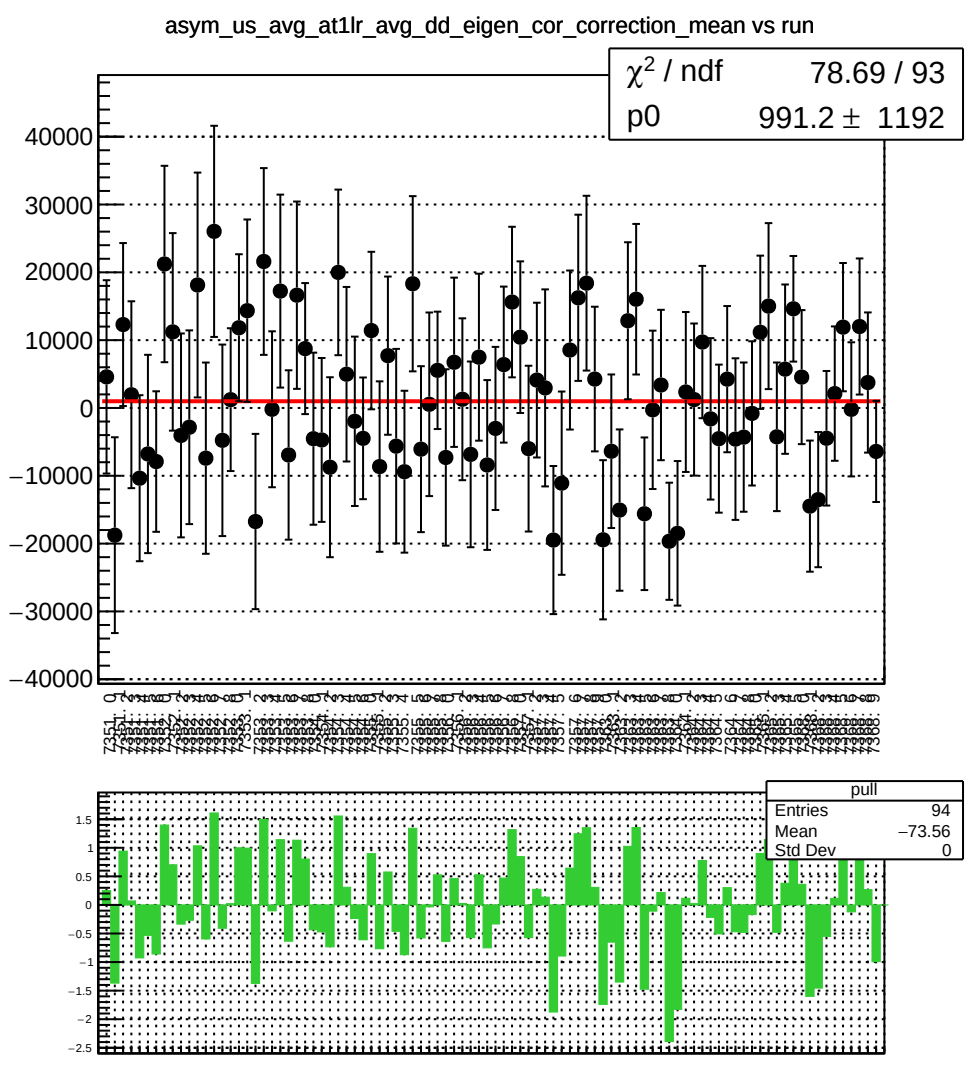

pull1D
Entries 94
Mean 0.01672
Std Dev 0.9148

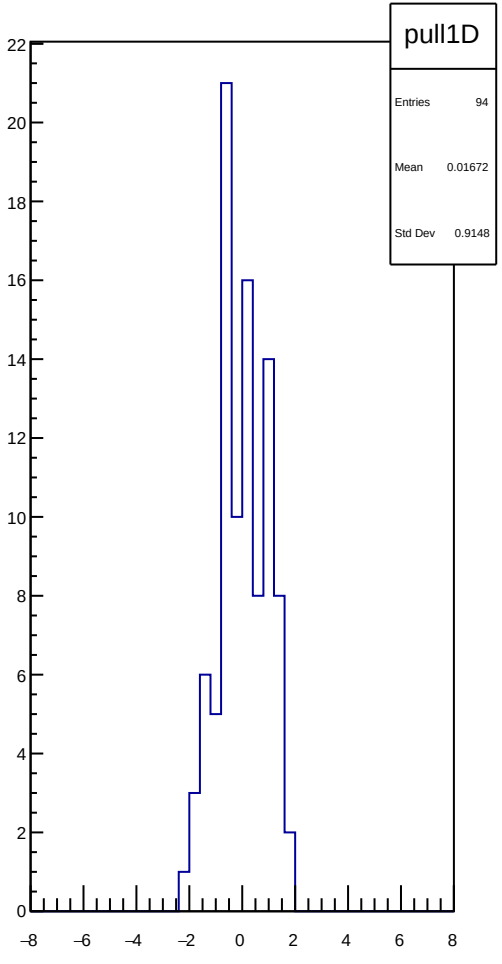

asym_us_avg_at1lr_avg_dd_cor_correction_rms vs run
χ^2 / ndf 2.386e+04 / 93
p0 1129 ± 0.843
1600
1500
1400
1300
1200
1100
1000
900

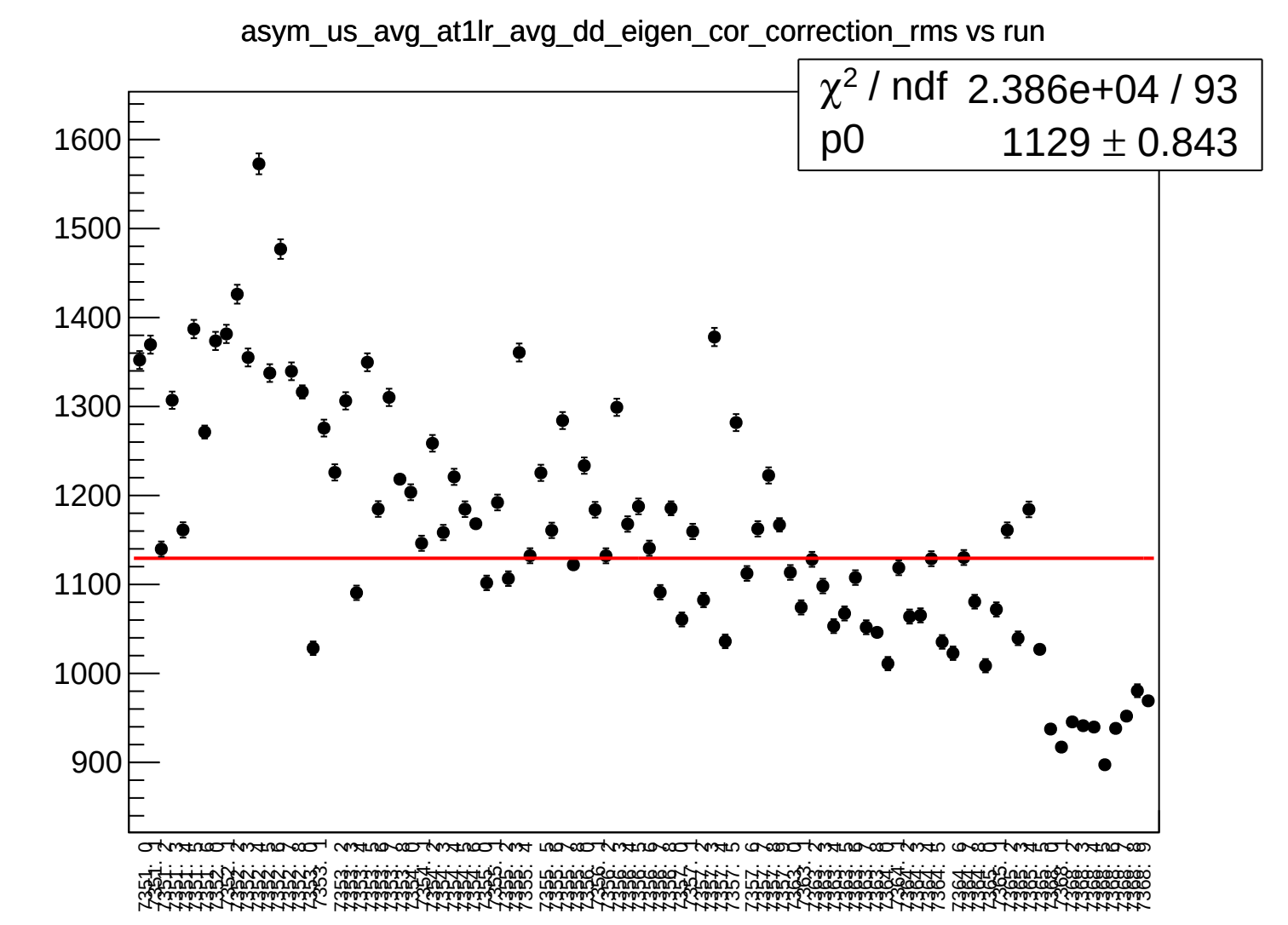

eigen_cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 68.05 / 93
p0 541.8 ± 1811
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 130.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

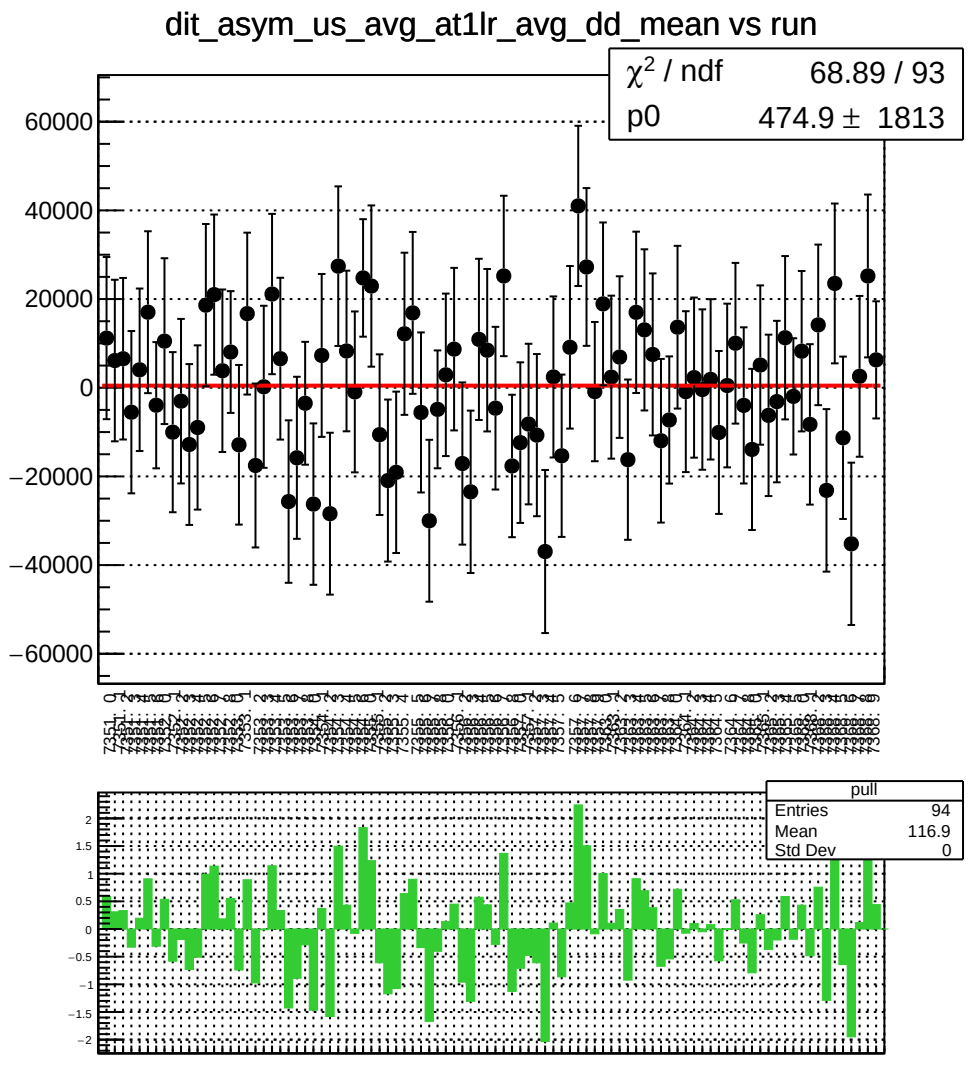

pull1D
Entries 94
Mean −0.004898
Std Dev 0.8508
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

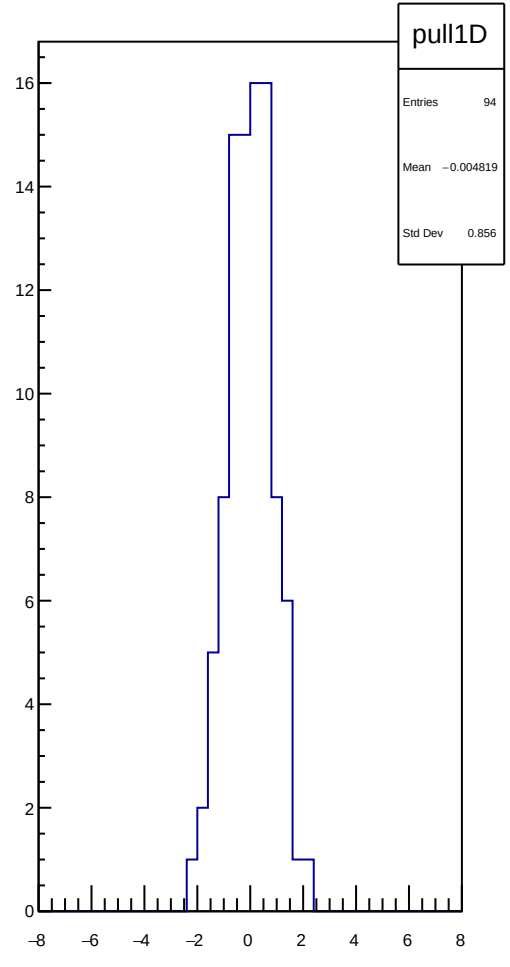

eigen_cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 103.8 / 93
p0 1727 ± 1.28
1780
1760
1740
1720
1700
1680
1660

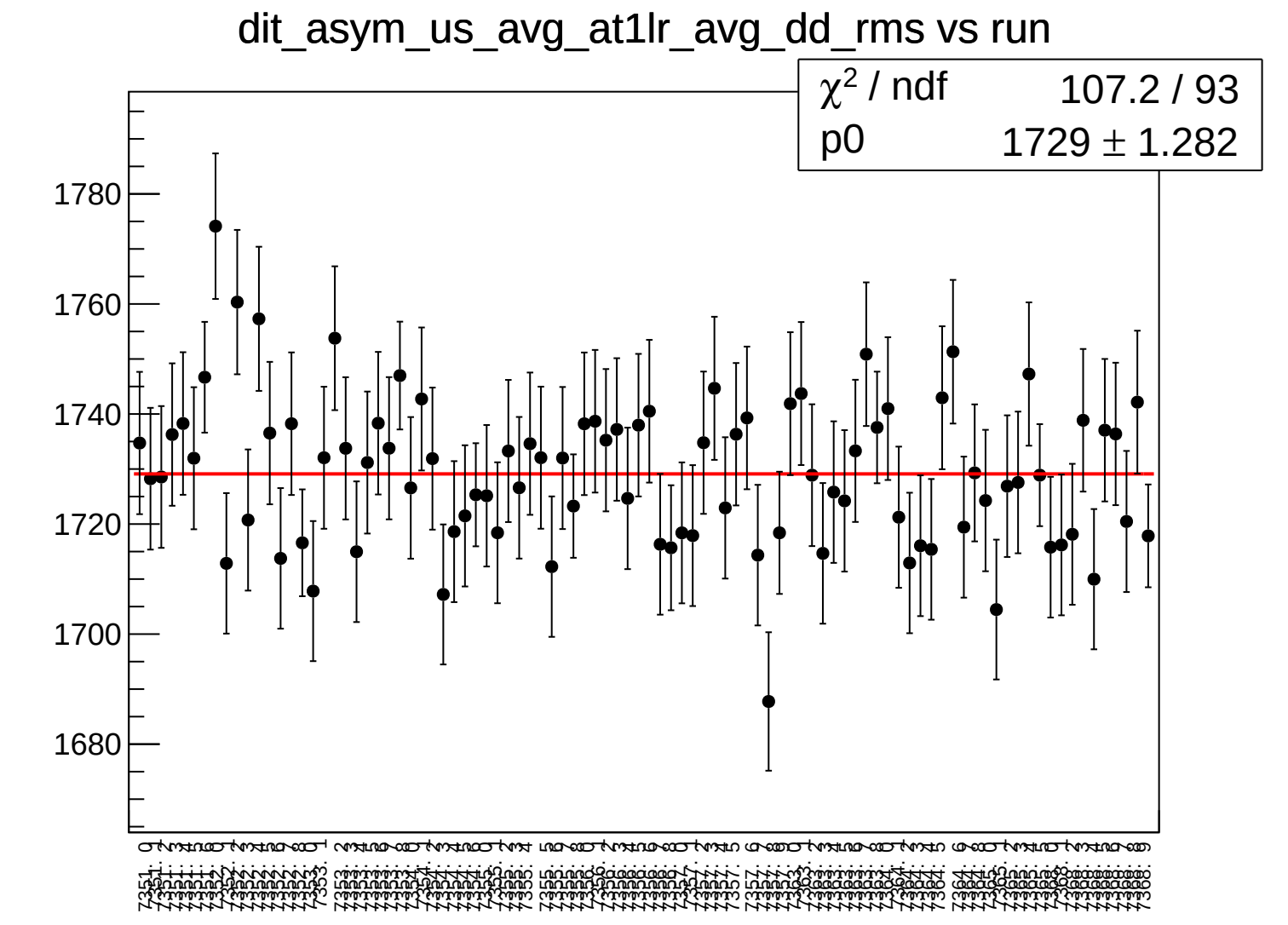

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 78.69 / 93
p0 991.2 ± 1192
pull
Entries 94
Mean −73.56
Std Dev 0

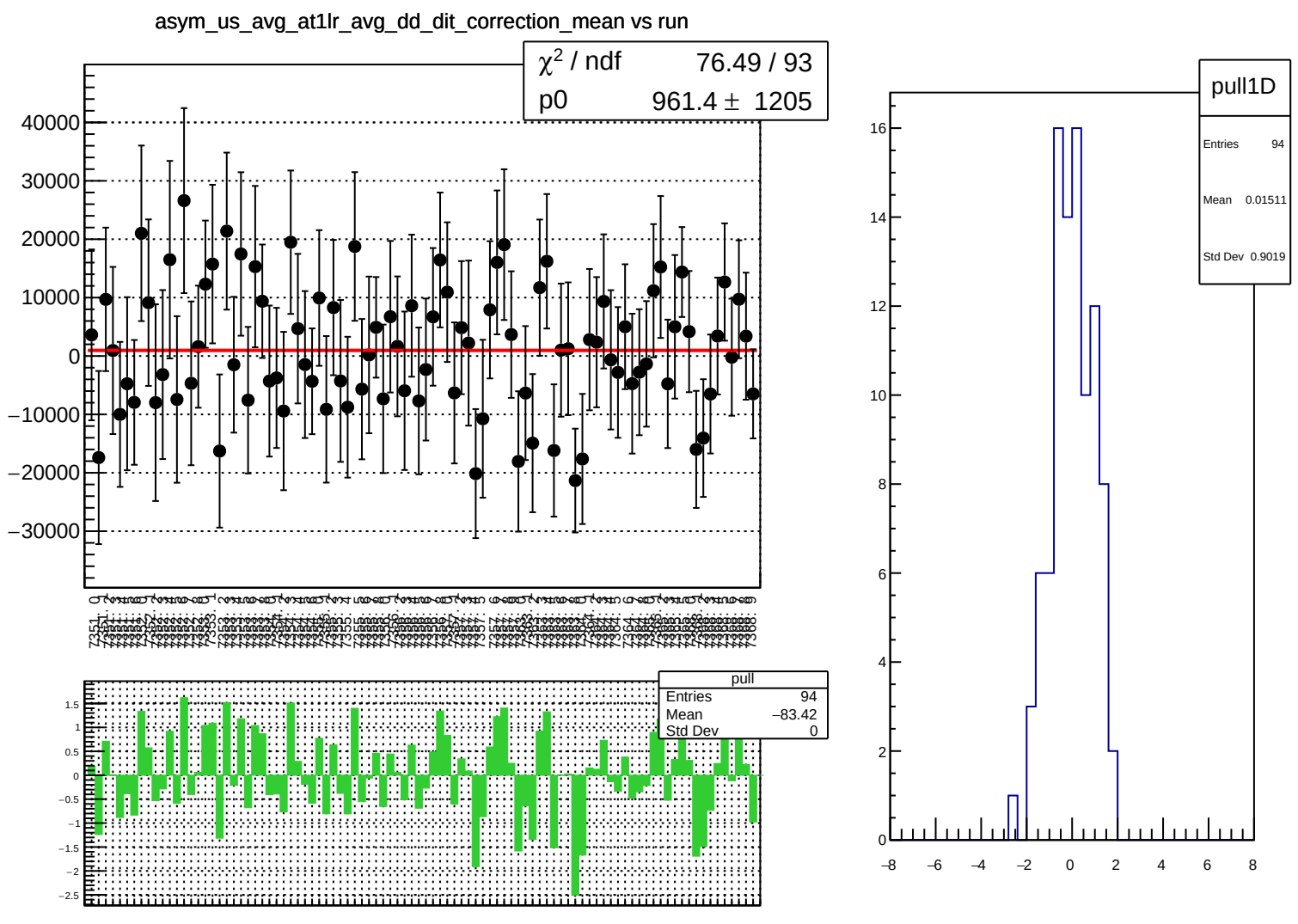

pull1D
Entries 94
Mean 0.01672
Std Dev 0.9148

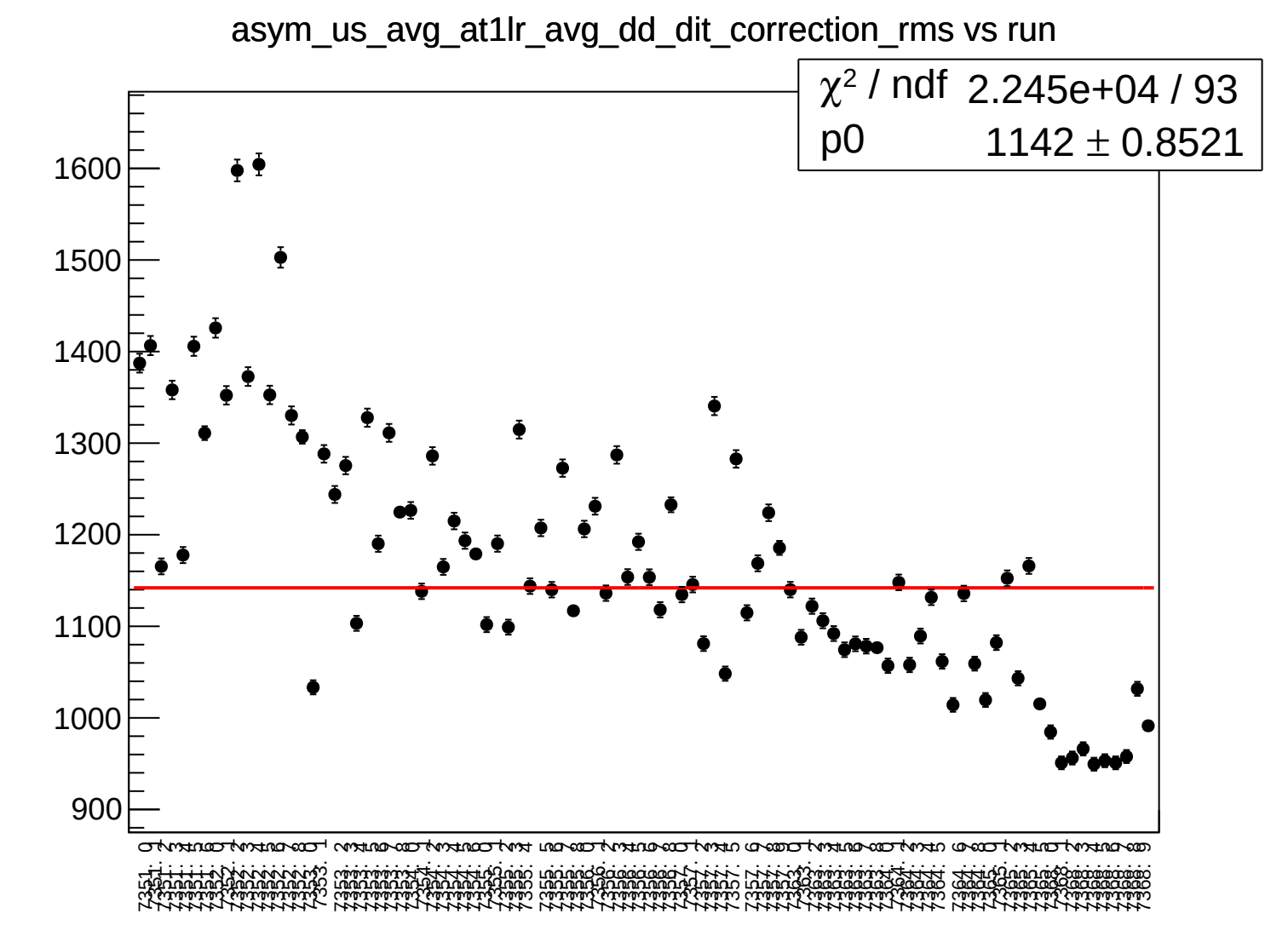

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.386e+04 / 93
p0 1129 ± 0.843
1600
1500
1400
1300
1200
1100
1000
900

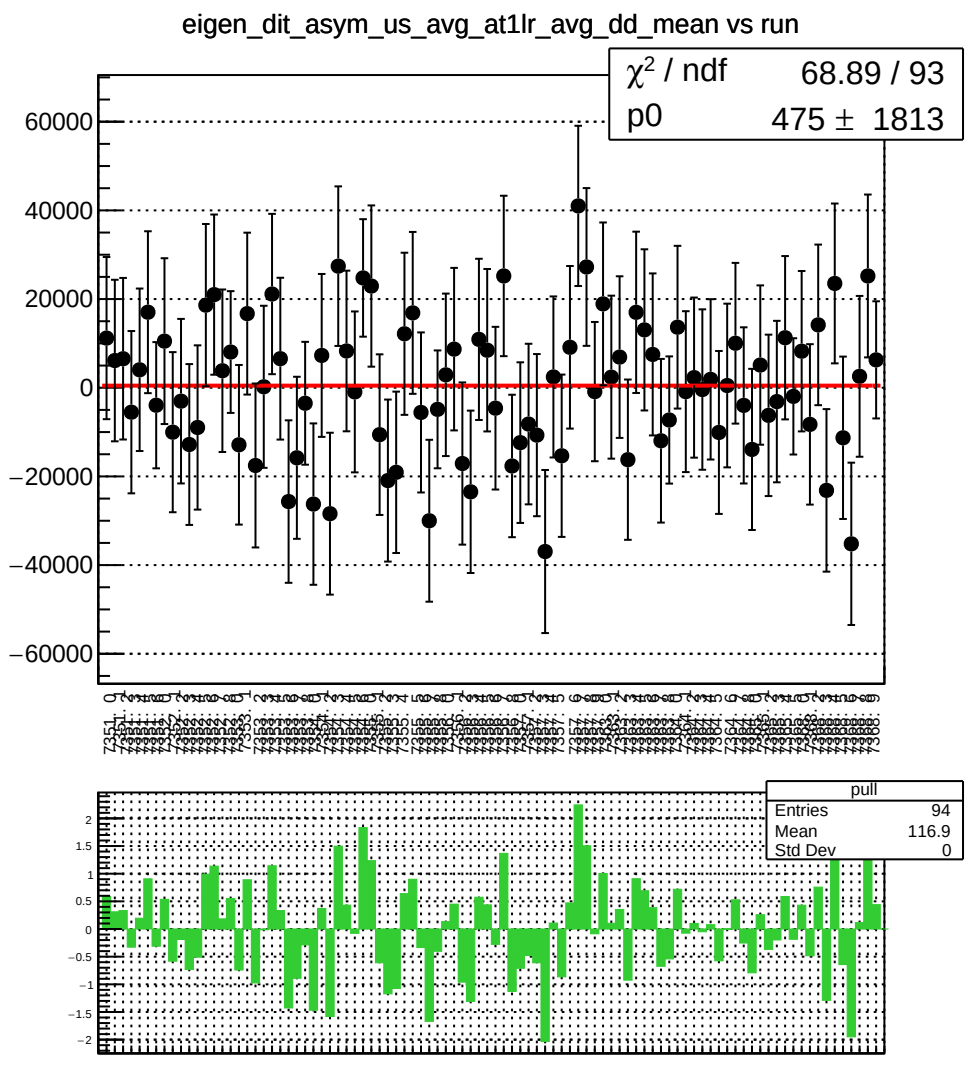

dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 68.89 / 93
p0 474.9 ± 1813
pull
Entries 94
Mean 116.9
Std Dev 0

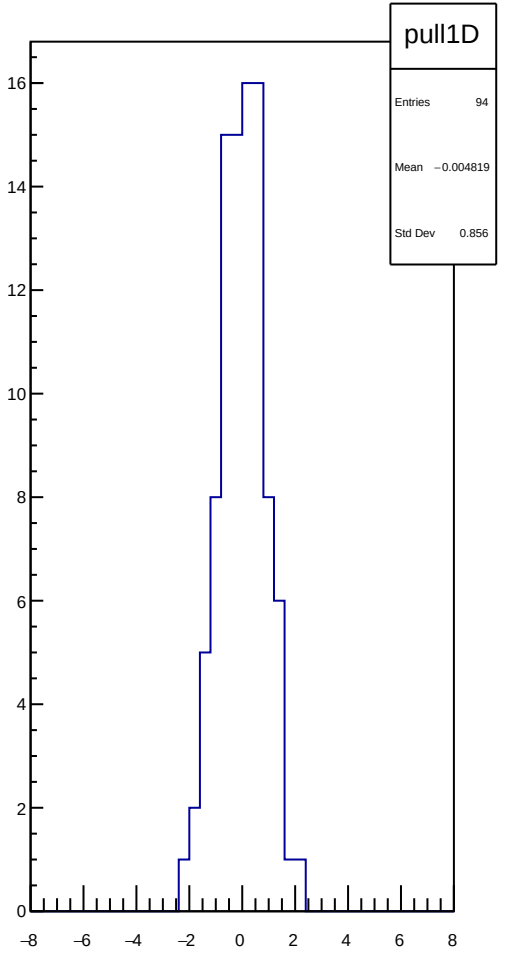

pull1D
Entries 94
Mean −0.004819
Std Dev 0.856

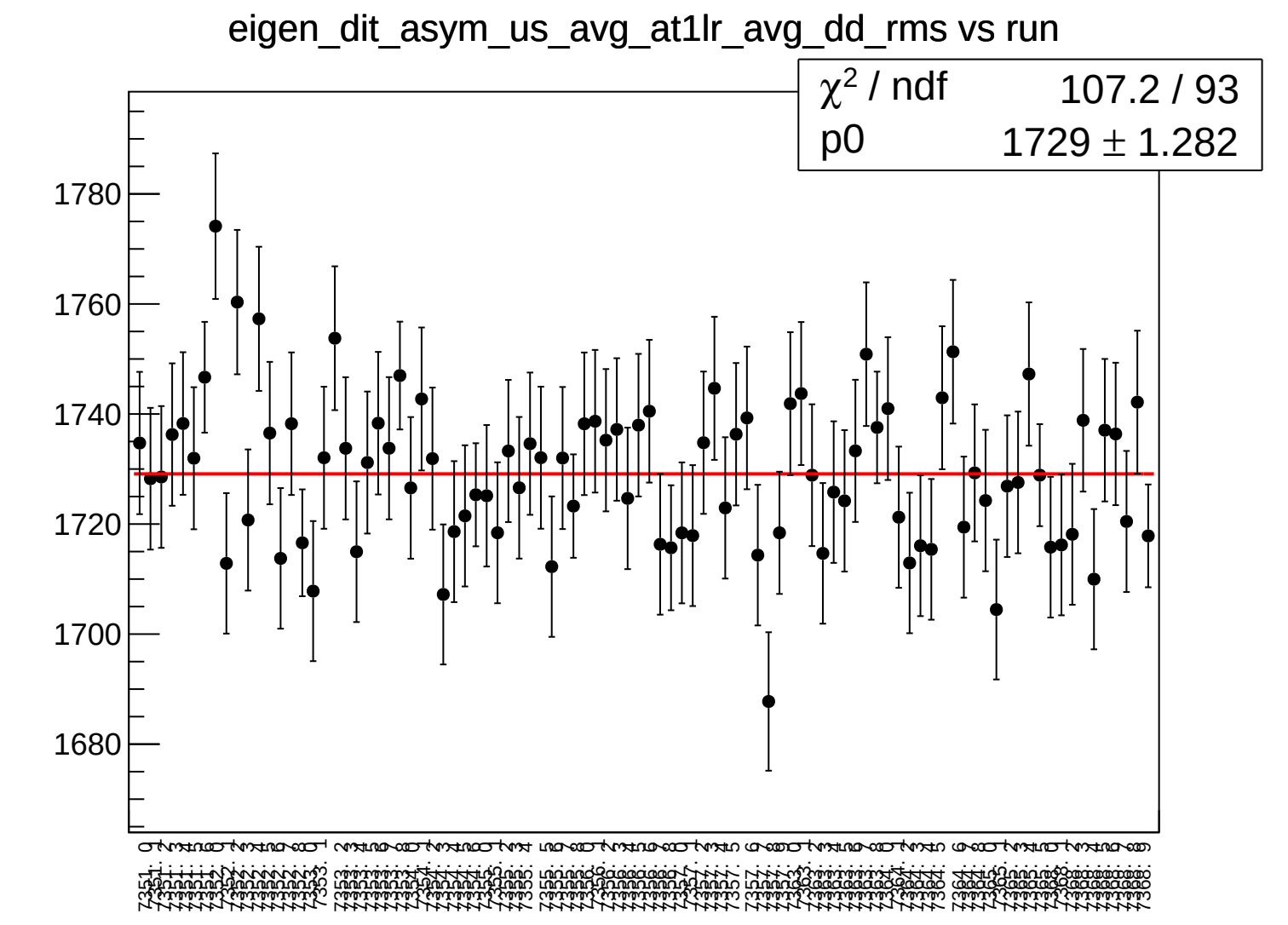

dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ^2 / ndf 107.2 / 93
p0 1729 ± 1.282
1780
1760
1740
1720
1700
1680

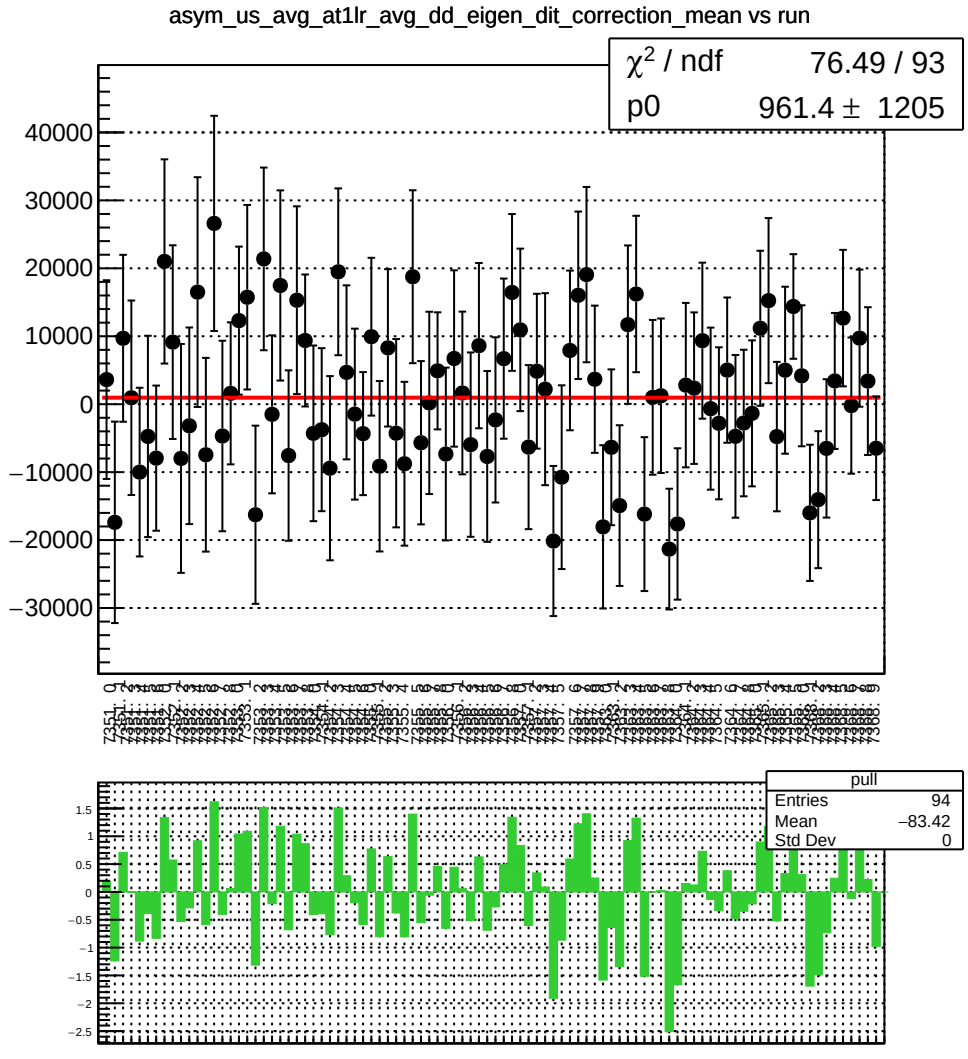

asym_us_avg_at1lr_avg_dd_dit_correction_mean vs run
χ² / ndf 76.49 / 93
p0 961.4 ± 1205
pull
Entries 94
Mean −83.42
Std Dev 0
pull1D
Entries 94
Mean 0.01511
Std Dev 0.9019

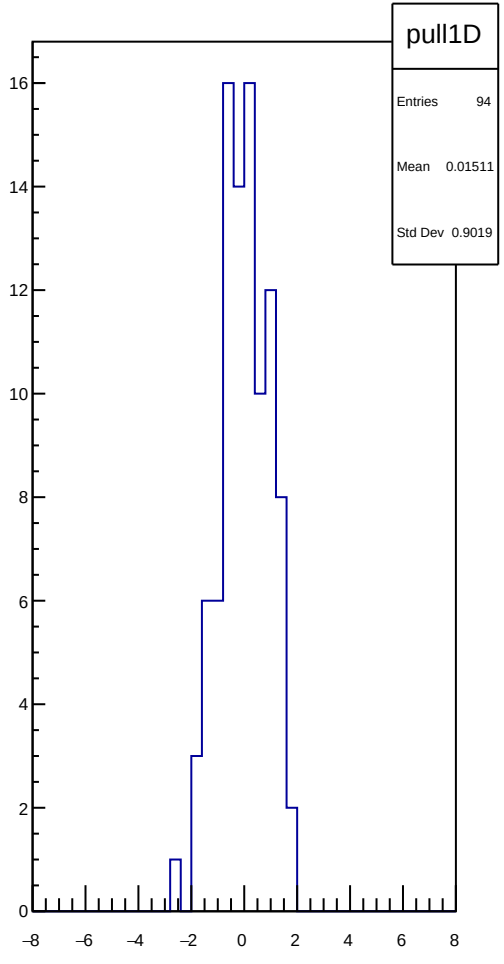

asym_us_avg_at1lr_avg_dd_dit_correction_rms vs run
χ² / ndf 2.245e+04 / 93
p0 1142 ± 0.8521
1600
1500
1400
1300
1200
1100
1000
900

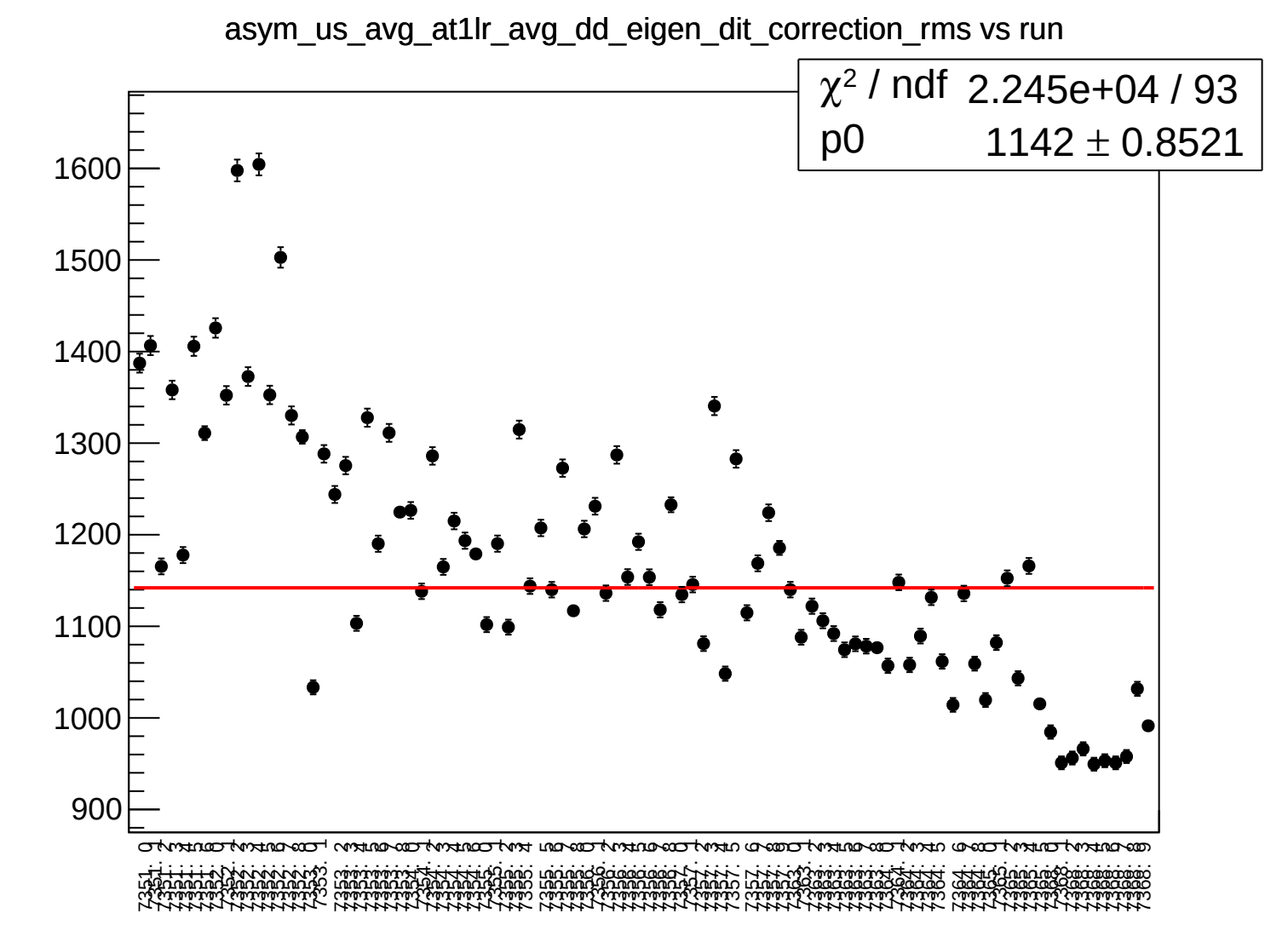

eigen_dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 68.89 / 93
p0 475 ± 1813
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 116.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

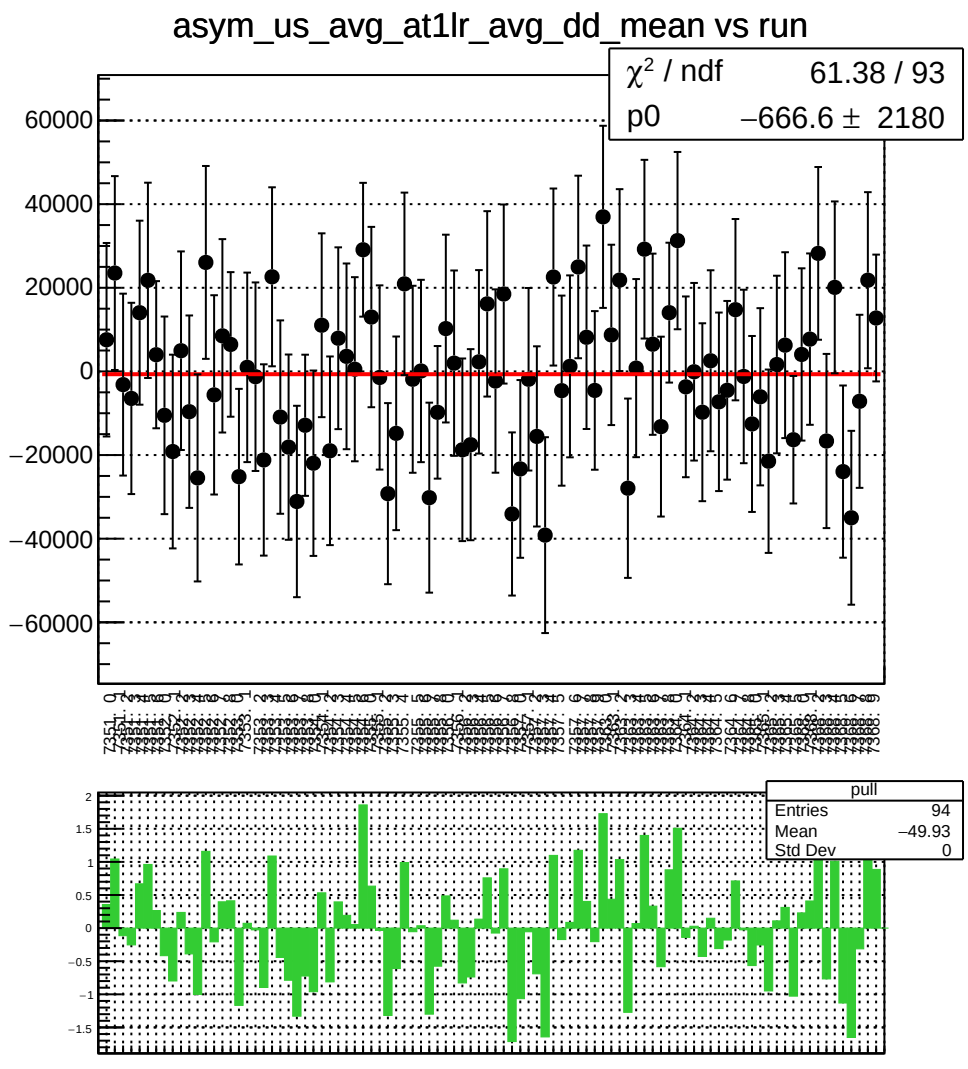

pull1D
Entries 94
Mean −0.004819
Std Dev 0.856
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

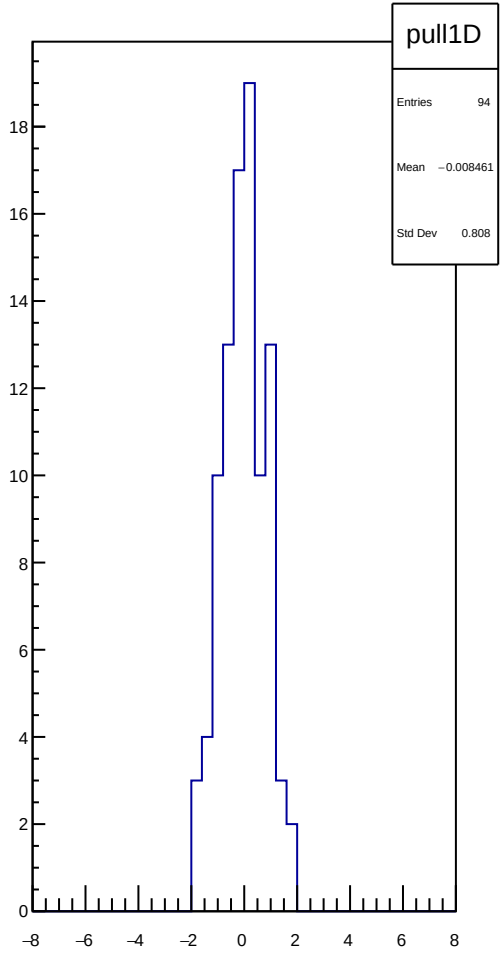

eigen_dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 107.2 / 93
p0 1729 ± 1.282
1780
1760
1740
1720
1700
1680

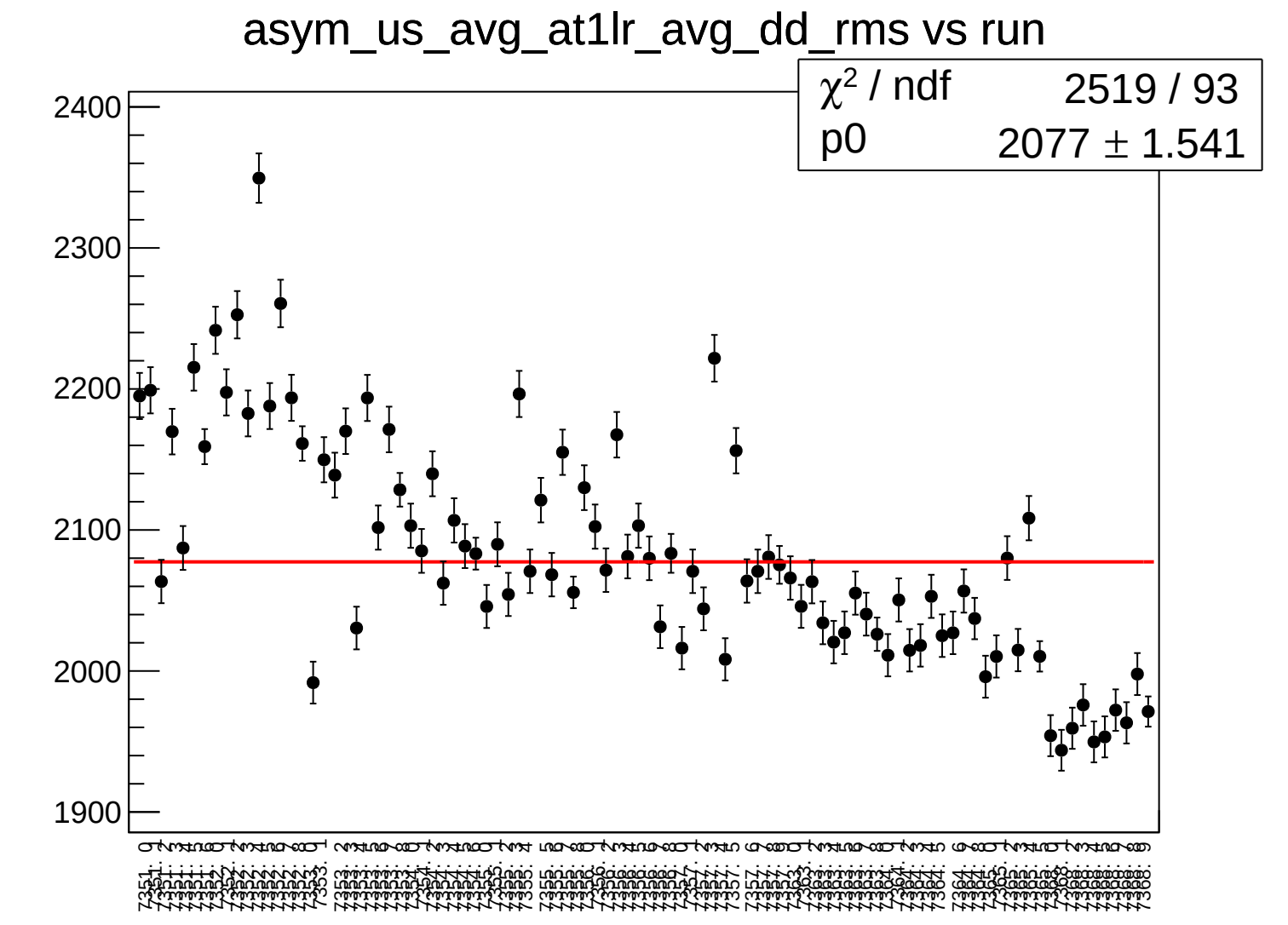

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 76.49 / 93
p0 961.4 ± 1205
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −83.42
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

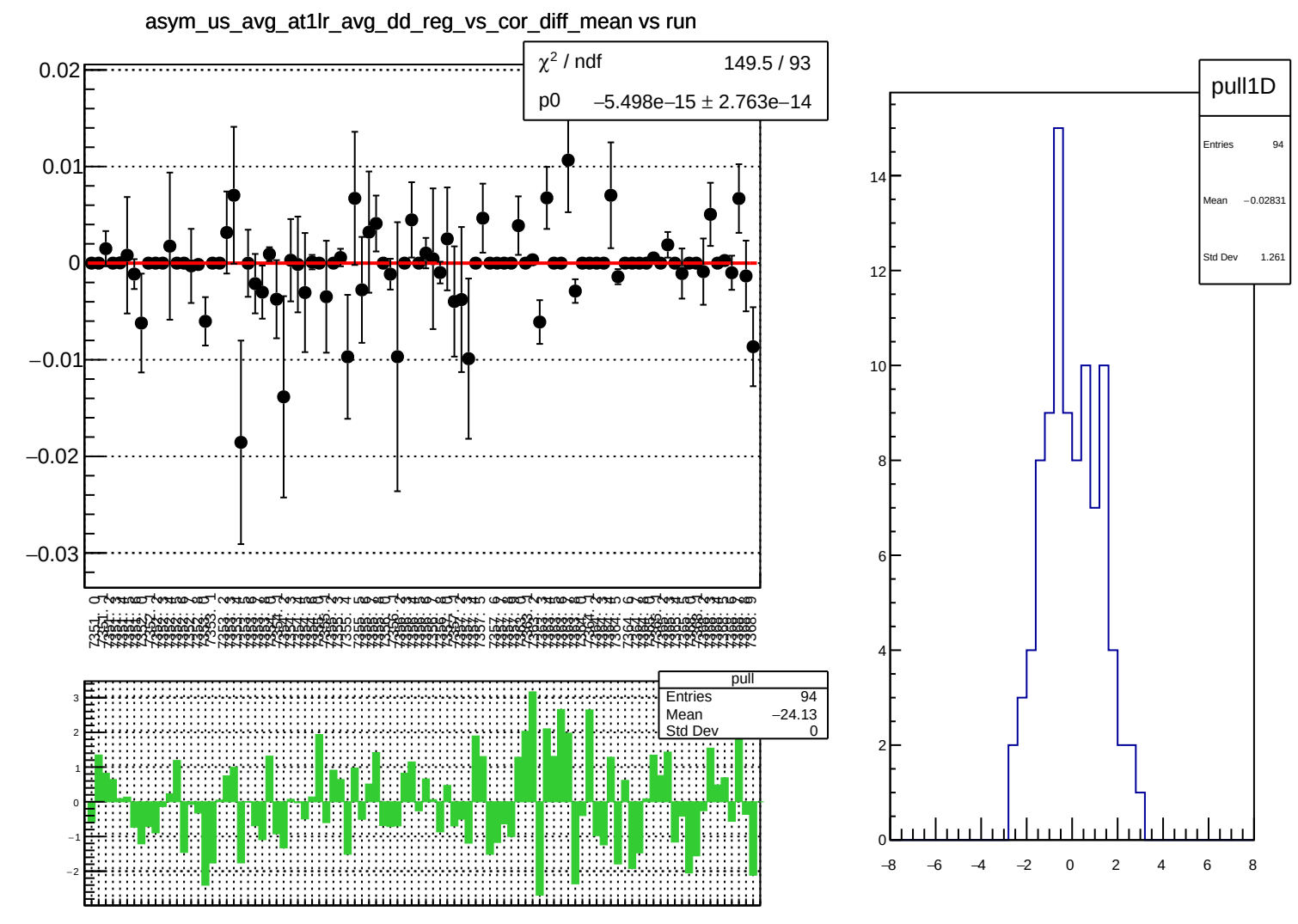

pull1D
Entries 94
Mean 0.01511
Std Dev 0.9019
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

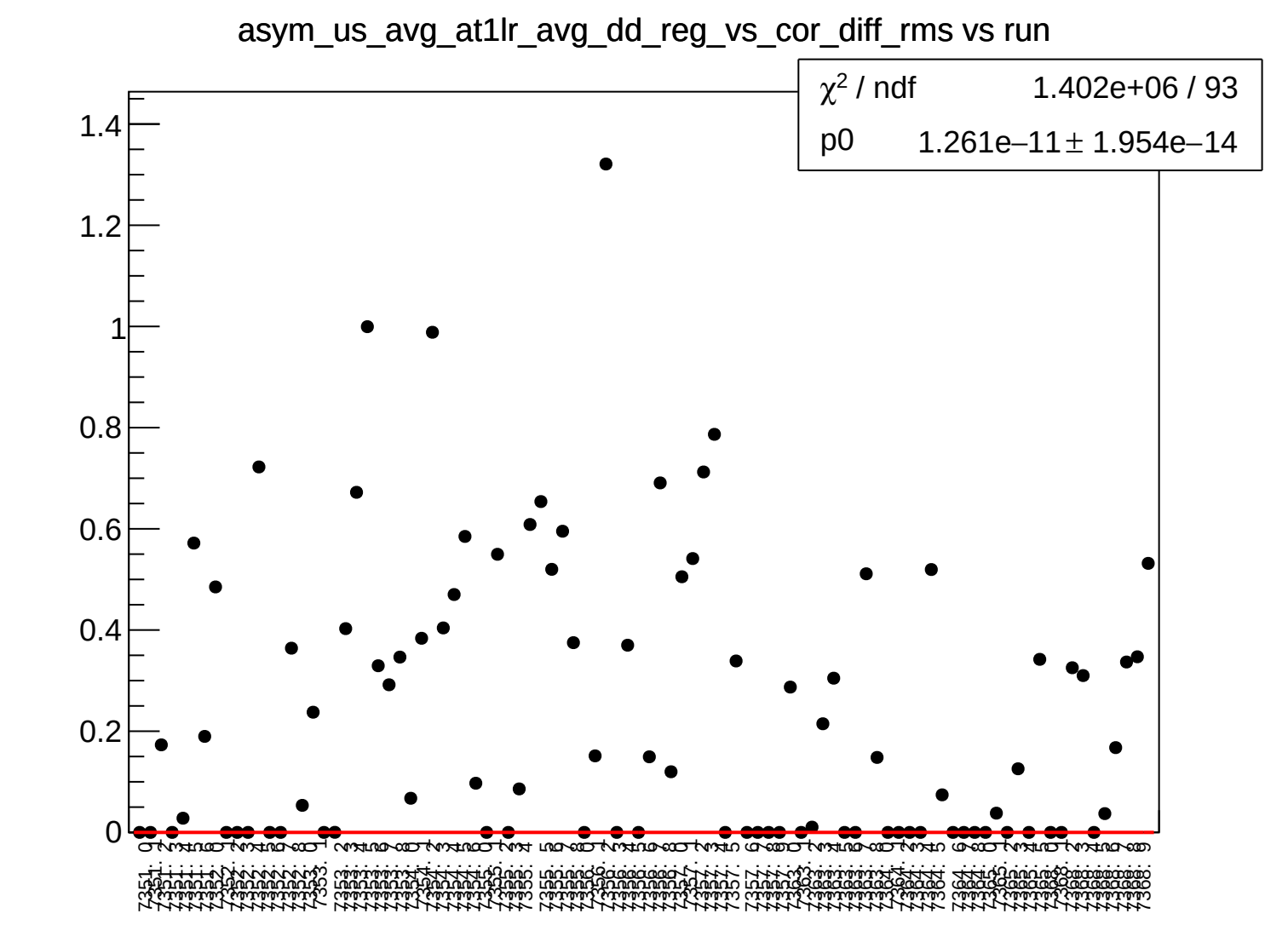

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.245e+04 / 93
p0 1142 ± 0.8521
1600
1500
1400
1300
1200
1100
1000
900

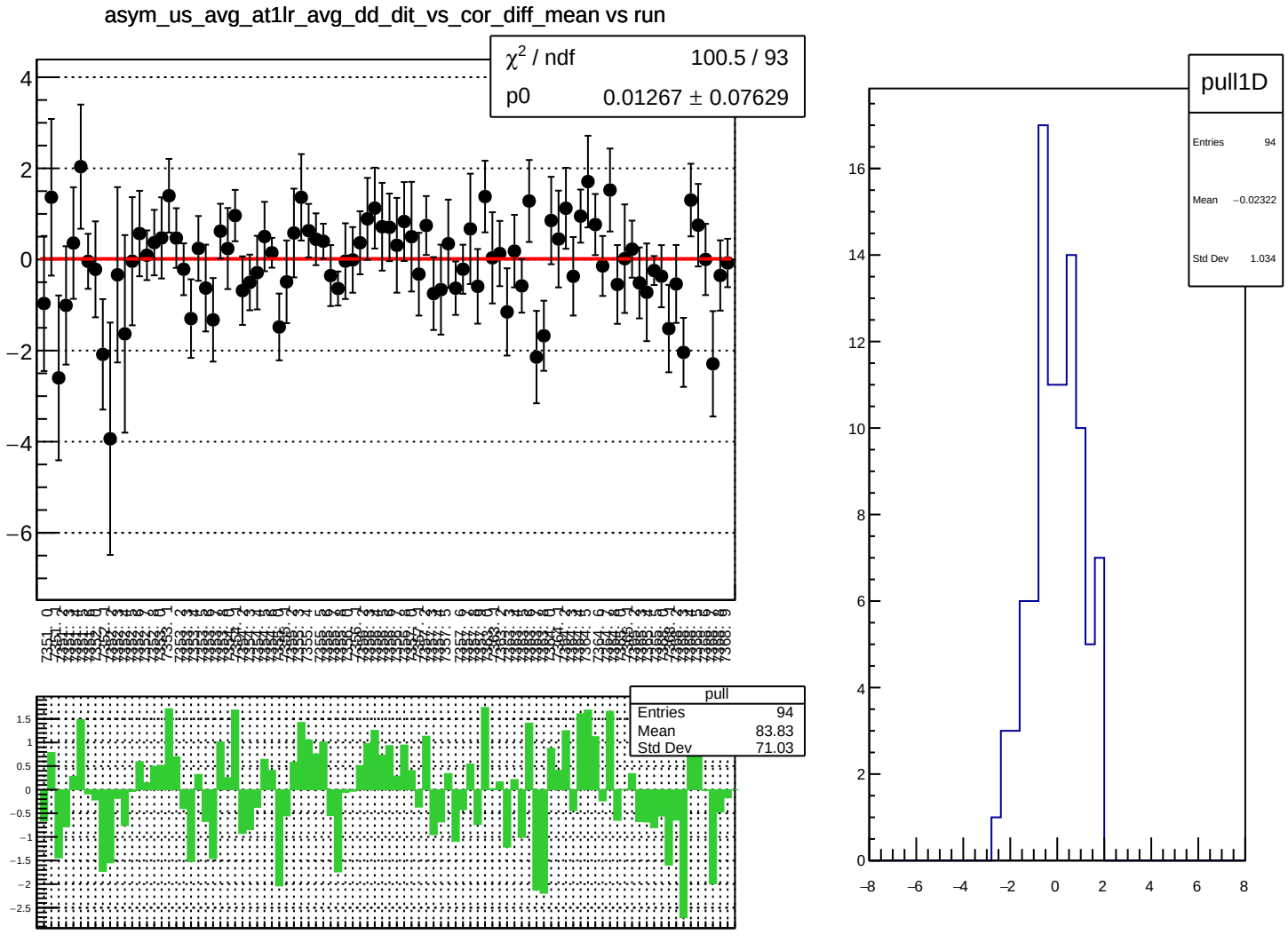

asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 61.38 / 93
p0 −666.6 ± 2180
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −49.93
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

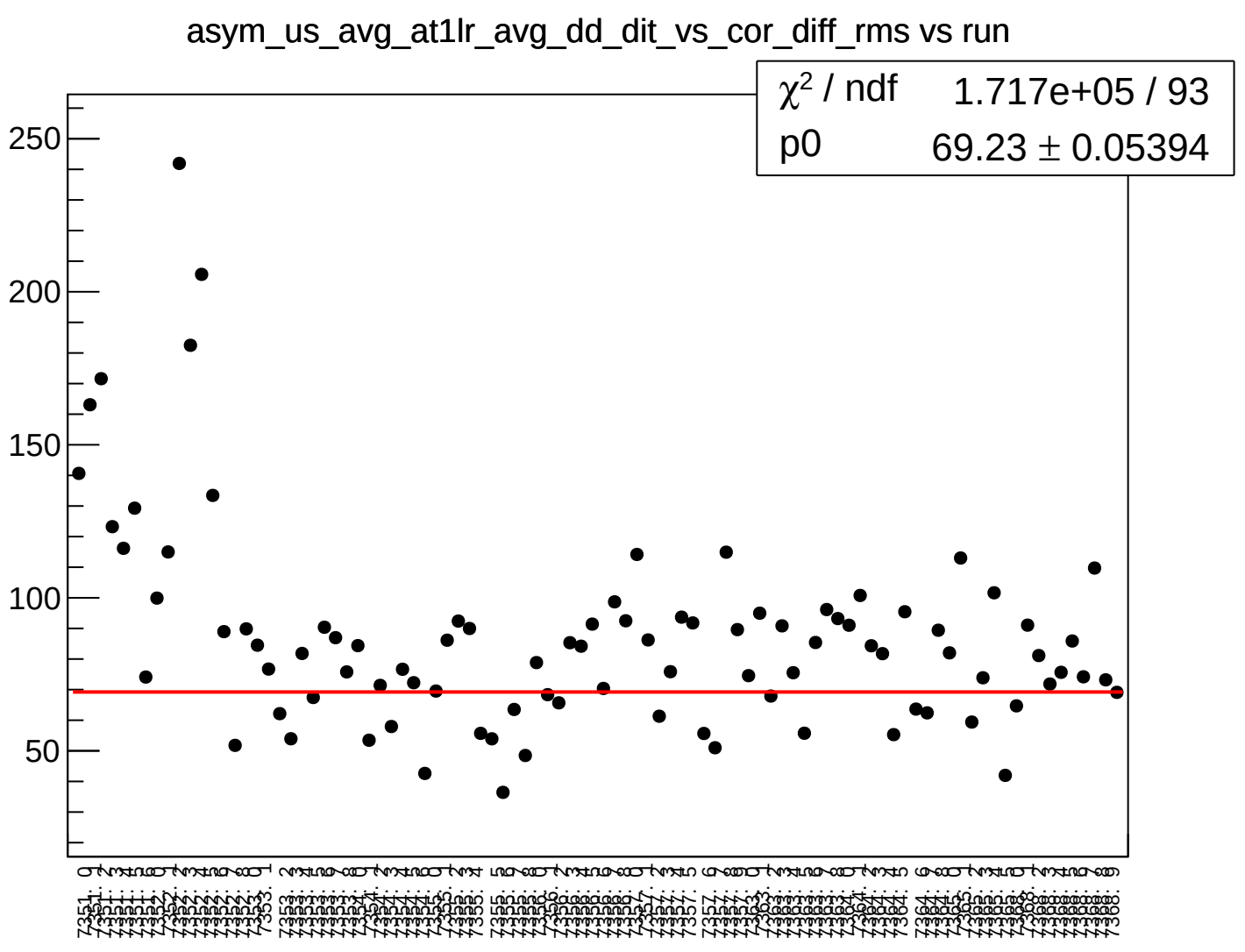

pull1D
Entries 94
Mean −0.008461
Std Dev 0.808
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

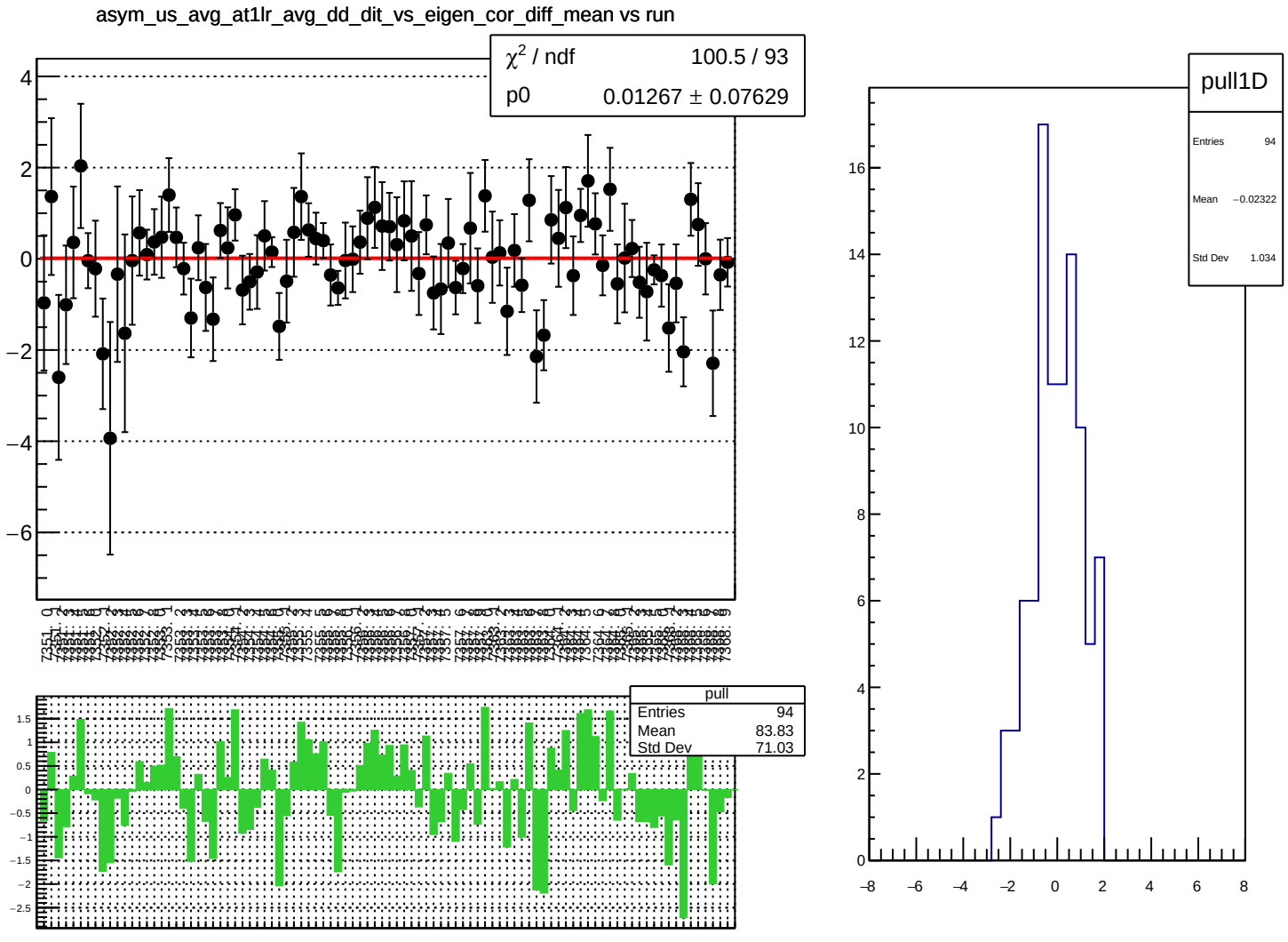

asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 2519 / 93
p0 2077 ± 1.541
2400
2300
2200
2100
2000
1900

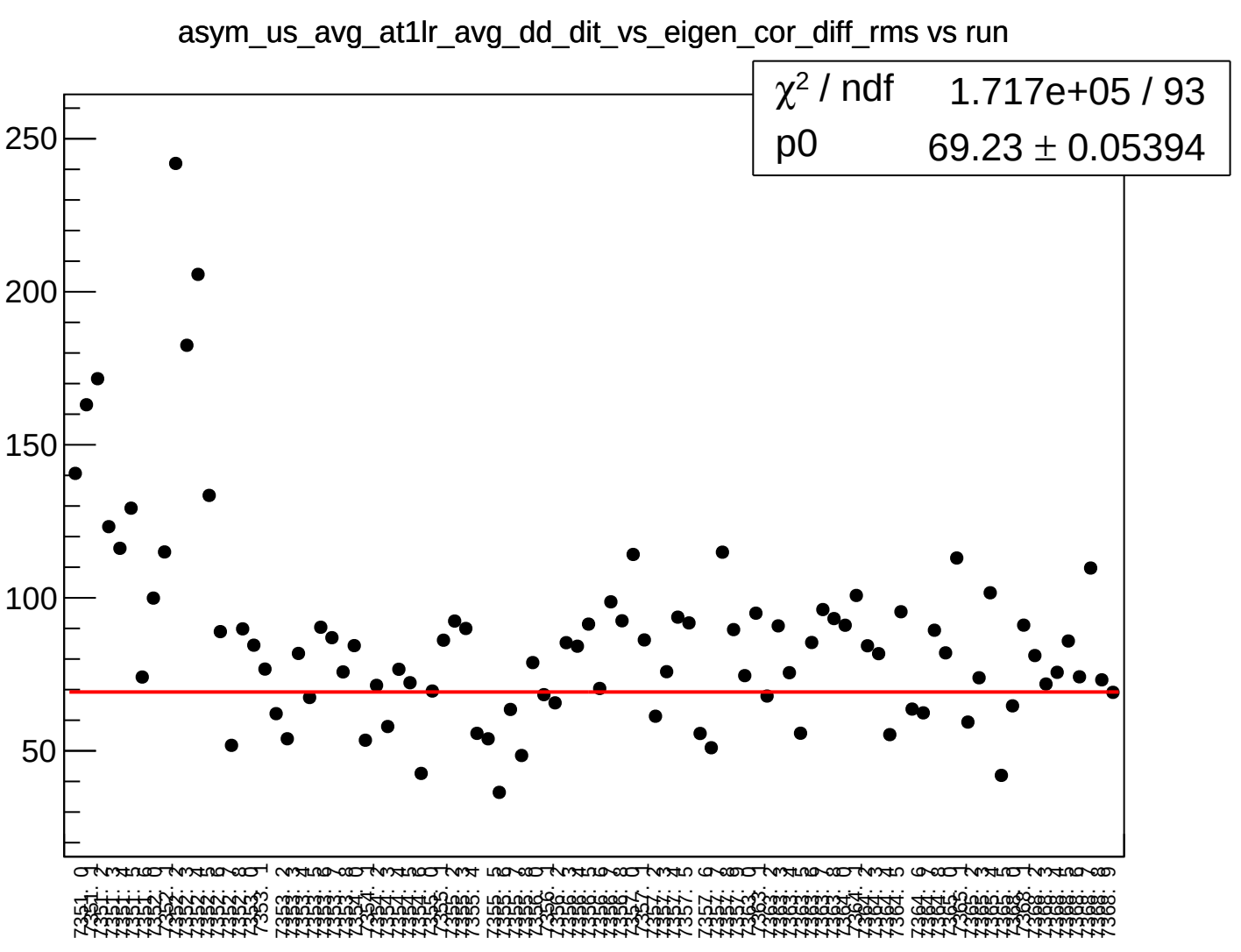

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 149.5 / 93
p0 −5.498e−15 ± 2.763e−14
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 94
Mean −24.13
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.02831
Std Dev 1.261
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

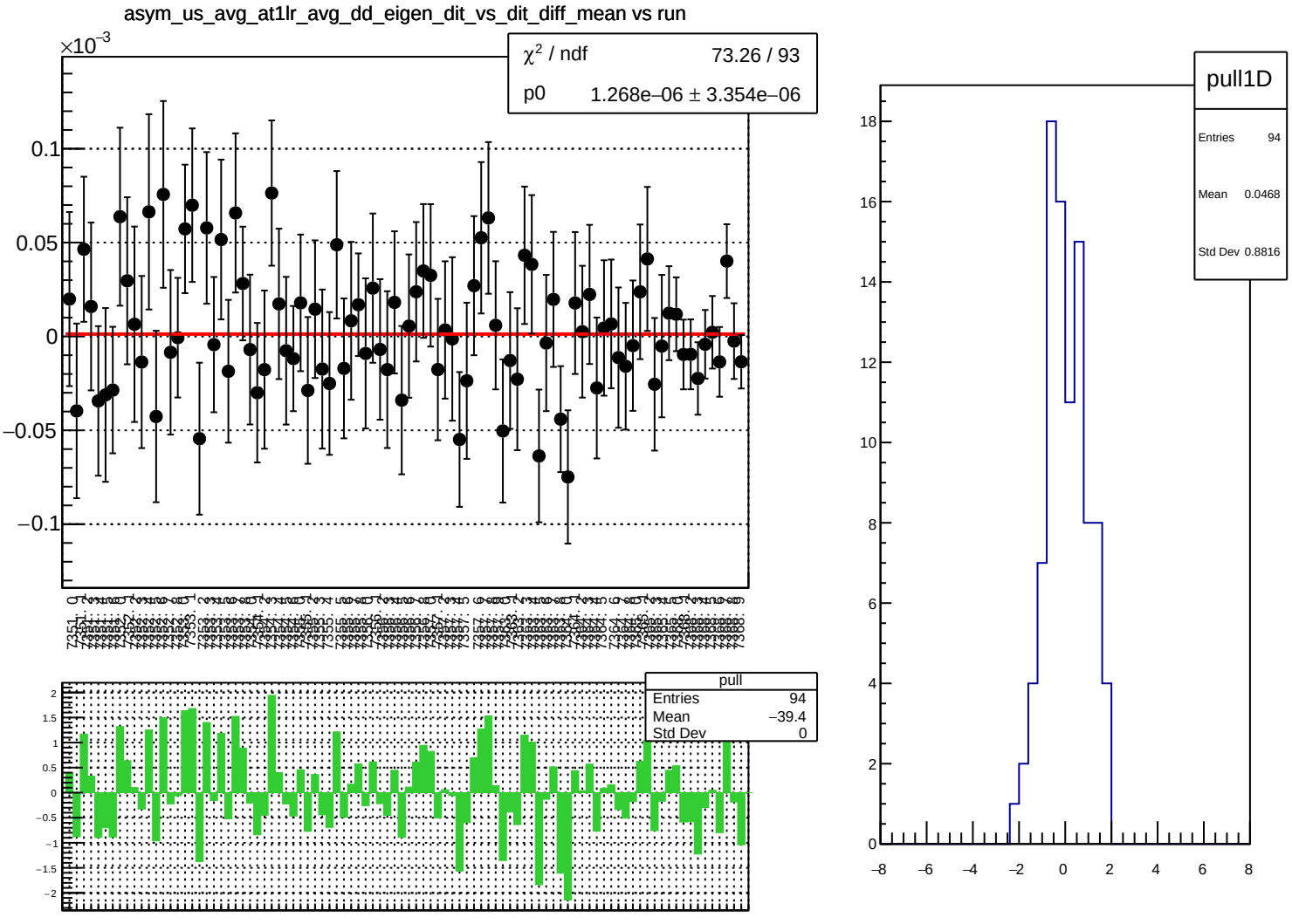

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.402e+06 / 93
p0 1.261e−11 ± 1.954e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

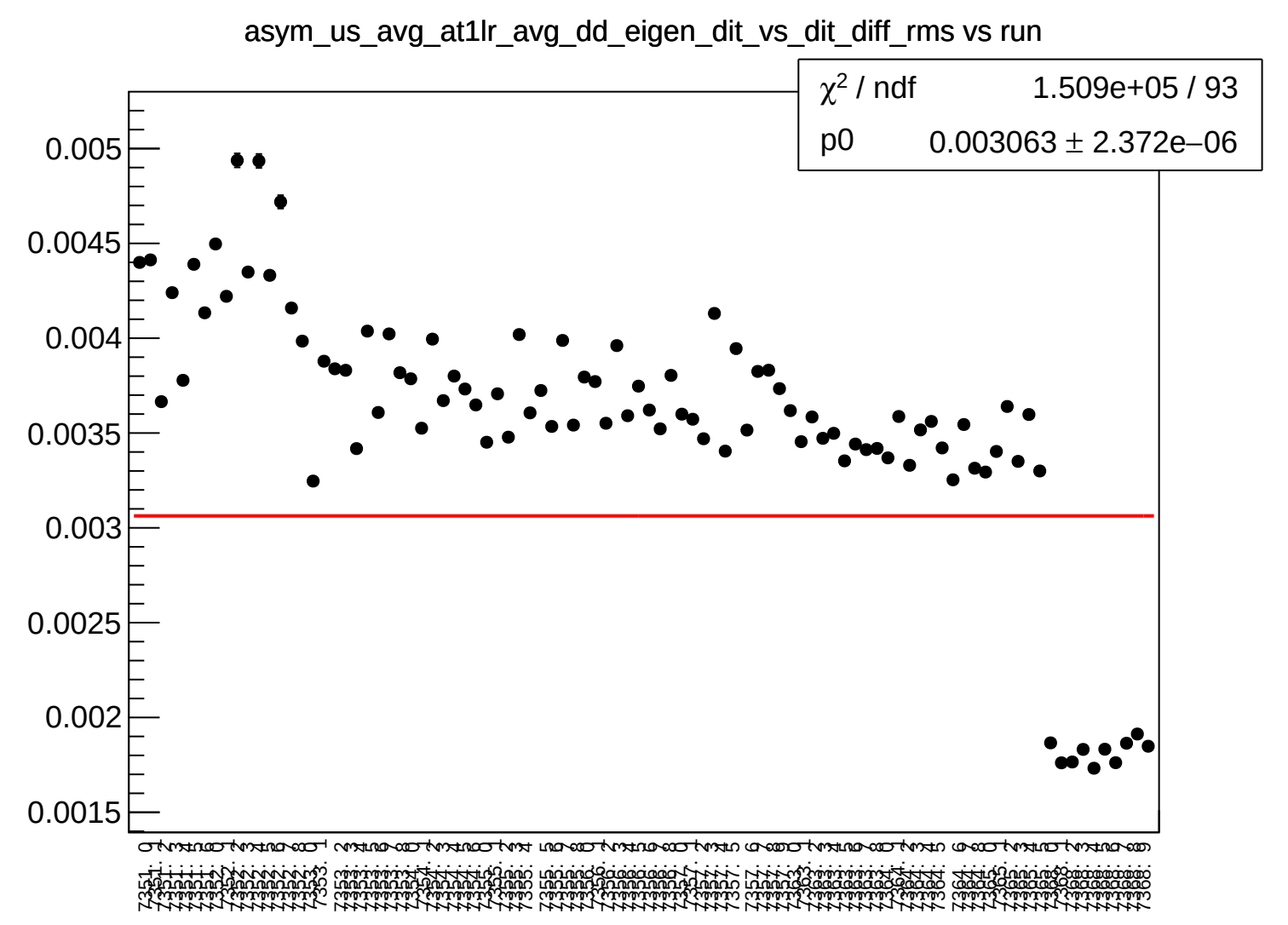

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 100.5 / 93
p0 0.01267 ± 0.07629
pull
Entries 94
Mean 83.83
Std Dev 71.03
pull1D
Entries 94
Mean −0.02322
Std Dev 1.034

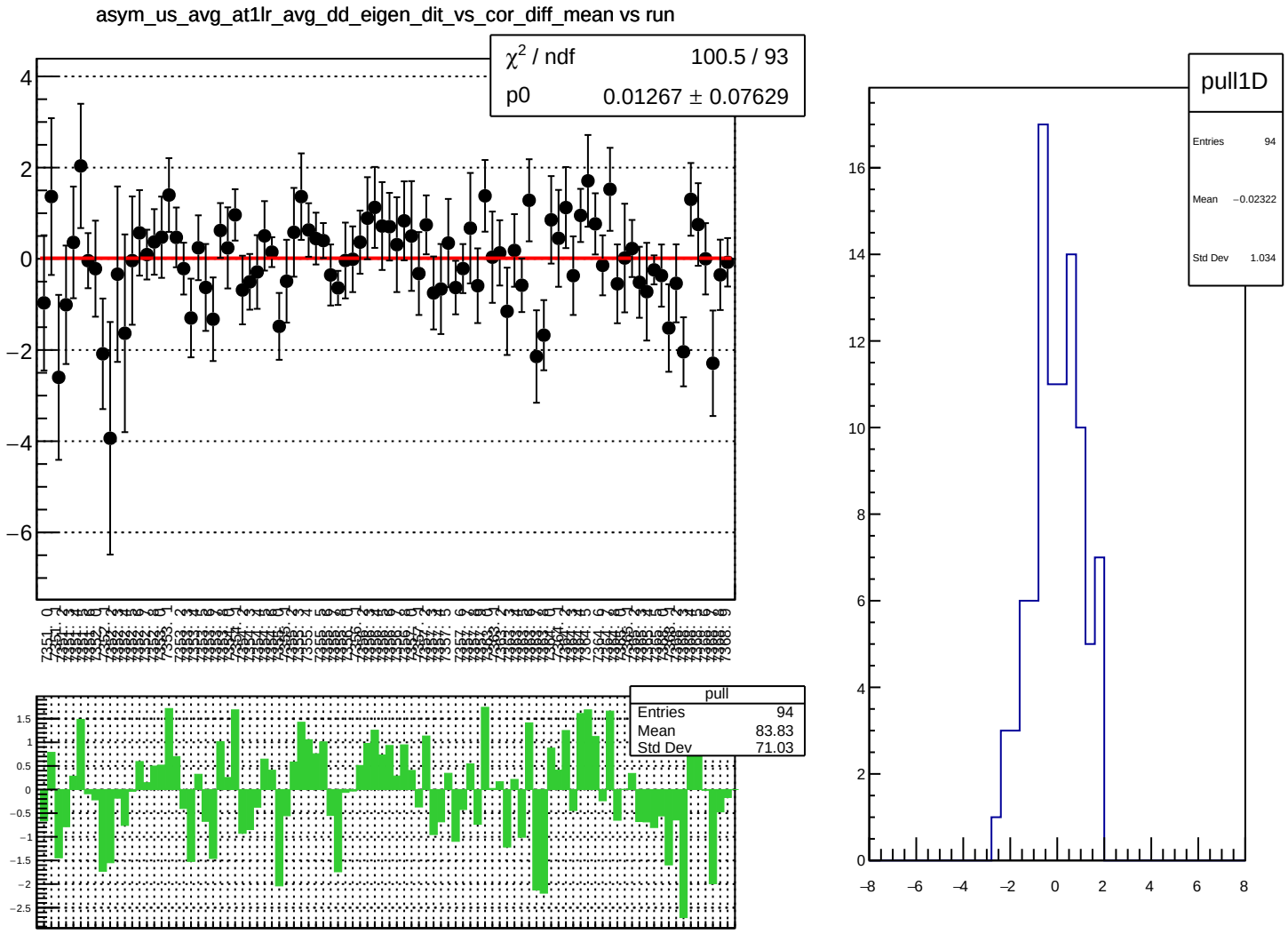

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.717e+05 / 93
p0 69.23 ± 0.05394
250
200
150
100
50

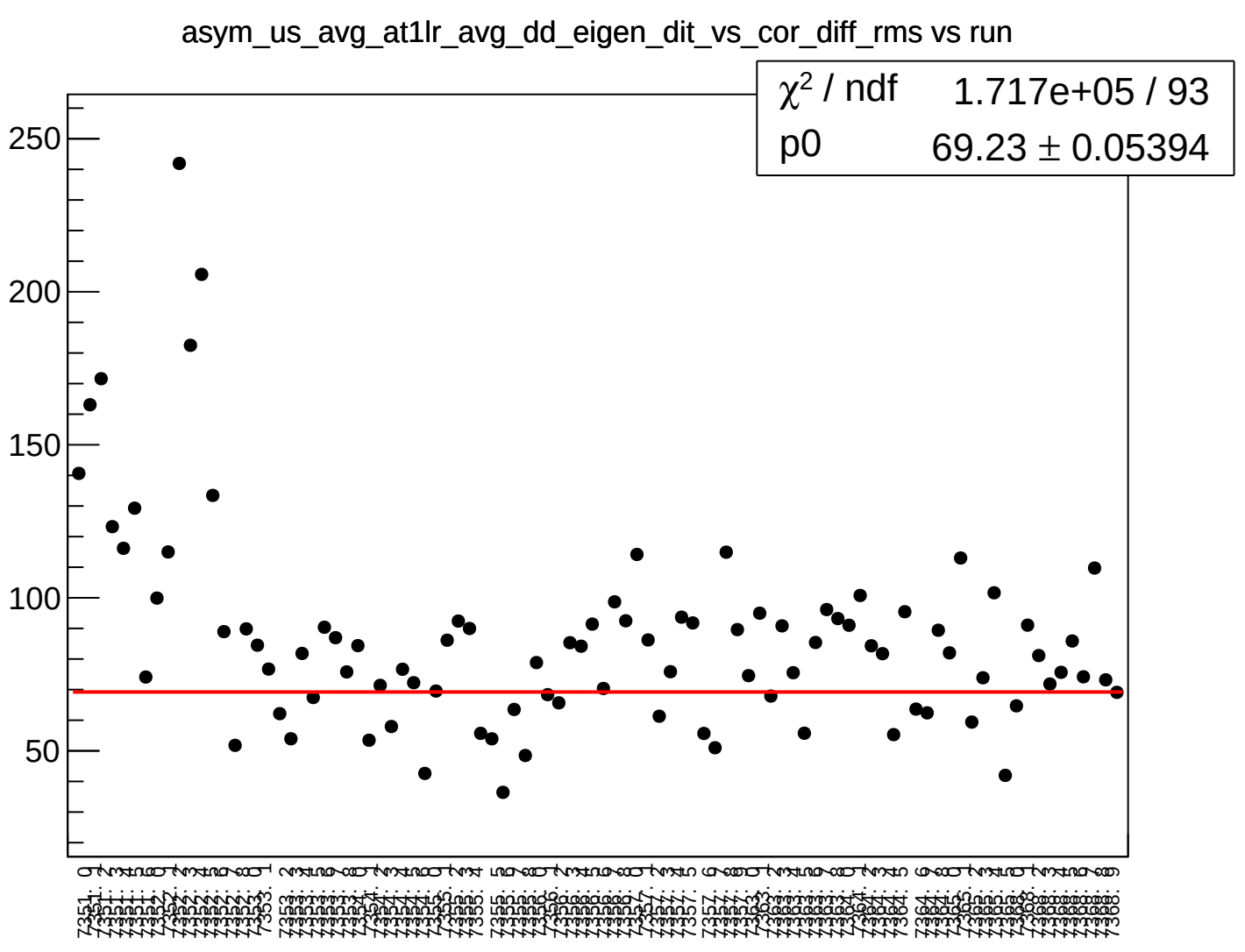

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.5 / 93
p0 0.01267 ± 0.07629
pull
Entries 94
Mean 83.83
Std Dev 71.03
pull1D
Entries 94
Mean −0.02322
Std Dev 1.034

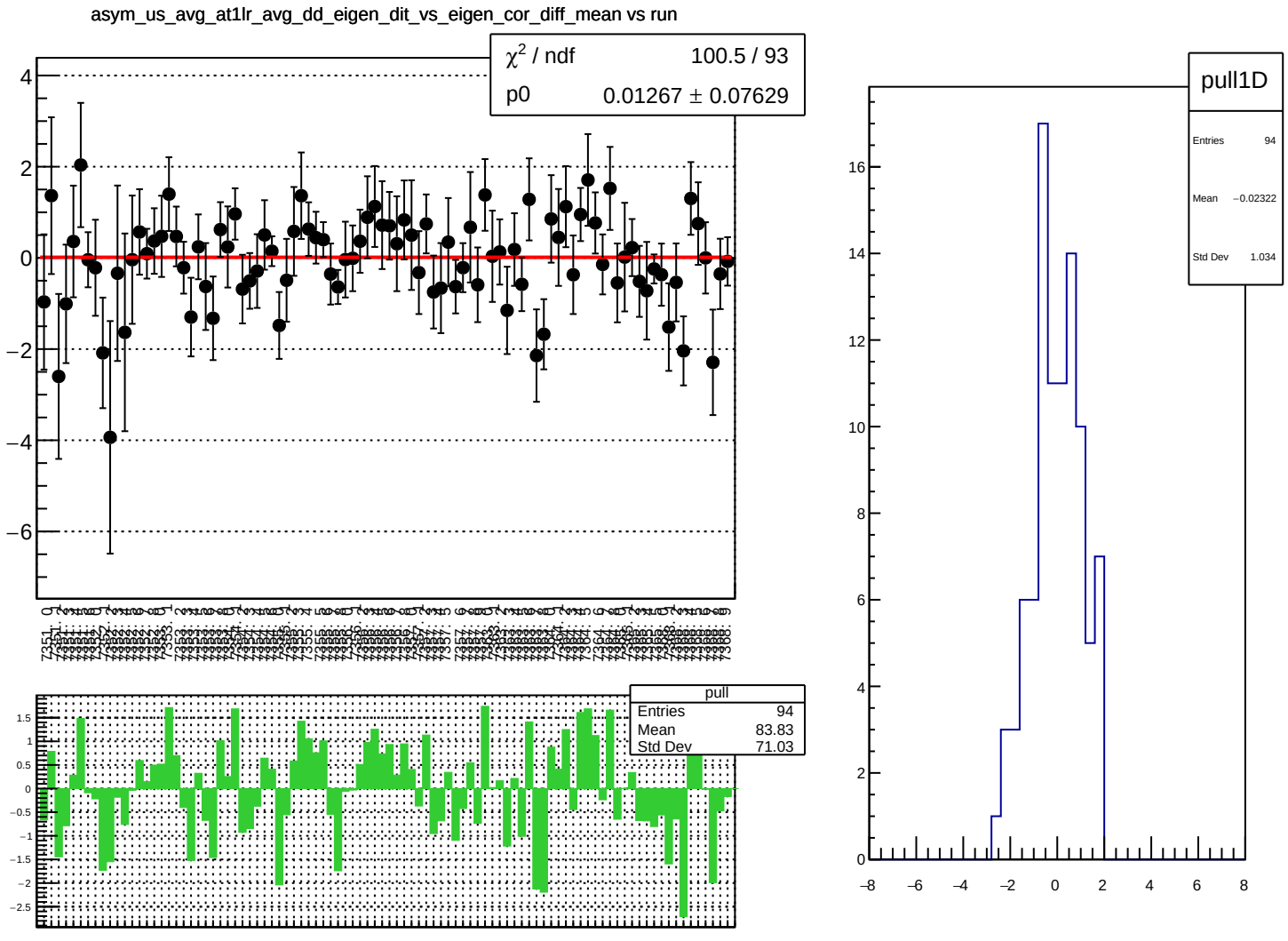

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.717e+05 / 93
p0 69.23 ± 0.05394
250
200
150
100
50

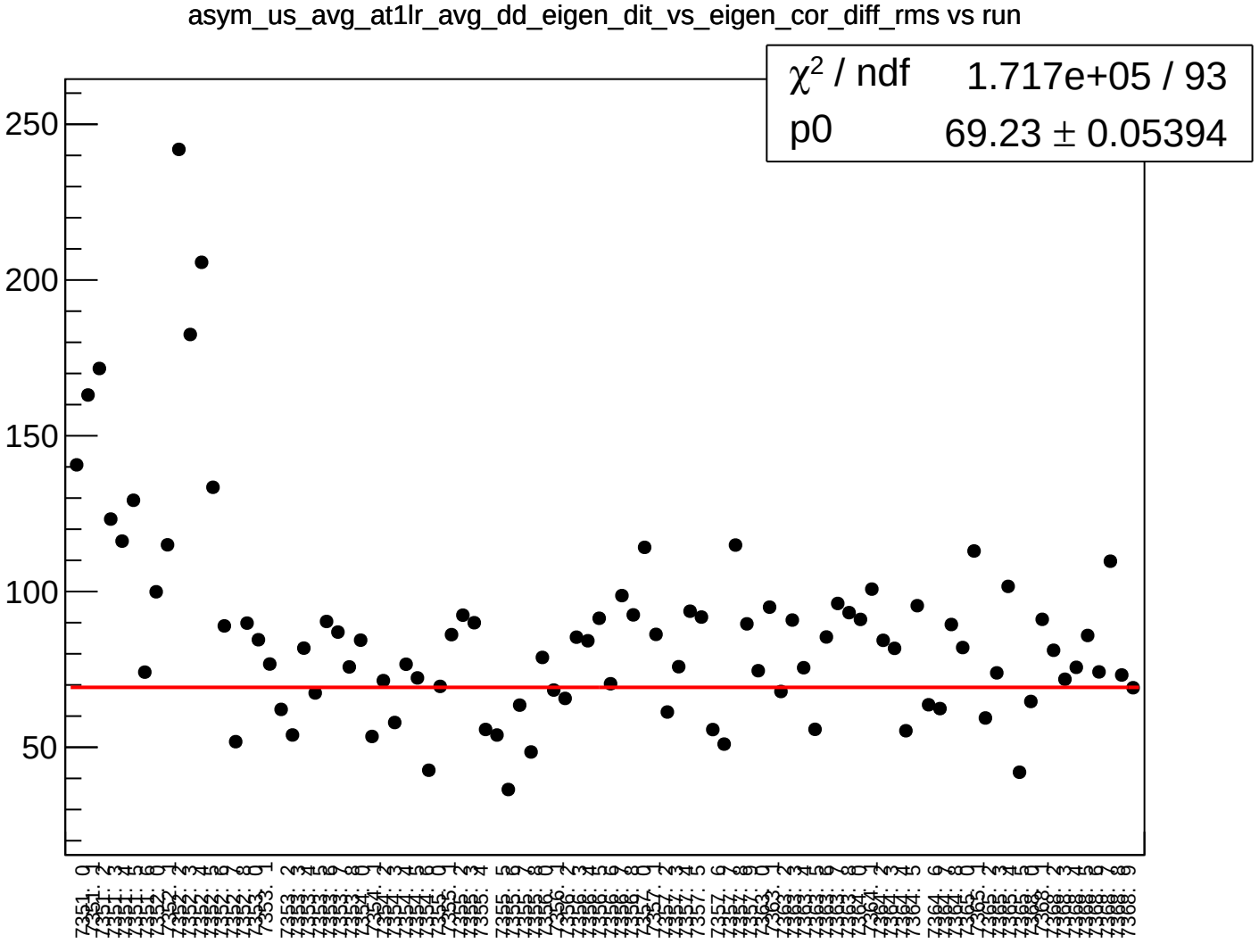

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.26 / 93
p0 1.268e−06 ± 3.354e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 94
Mean −39.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean 0.0468
Std Dev 0.8816
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

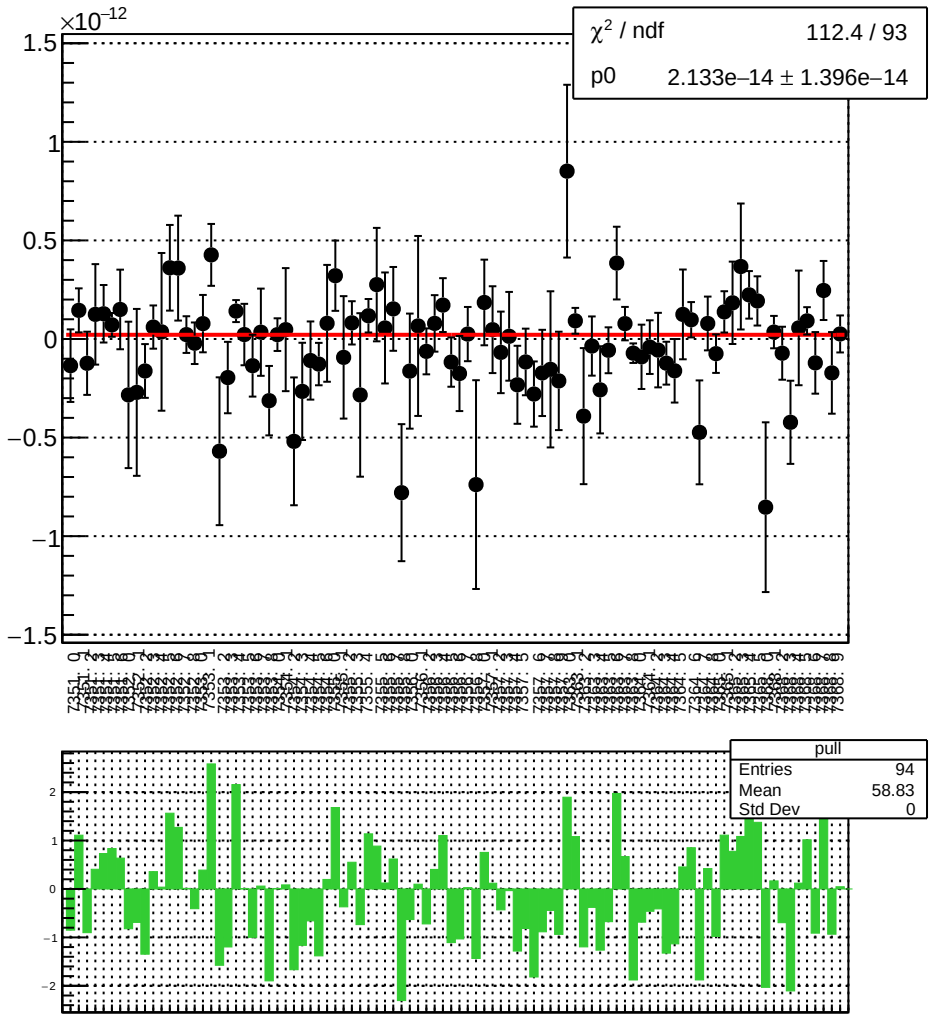

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.509e+05 / 93
p0 0.003063 ± 2.372e−06
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015

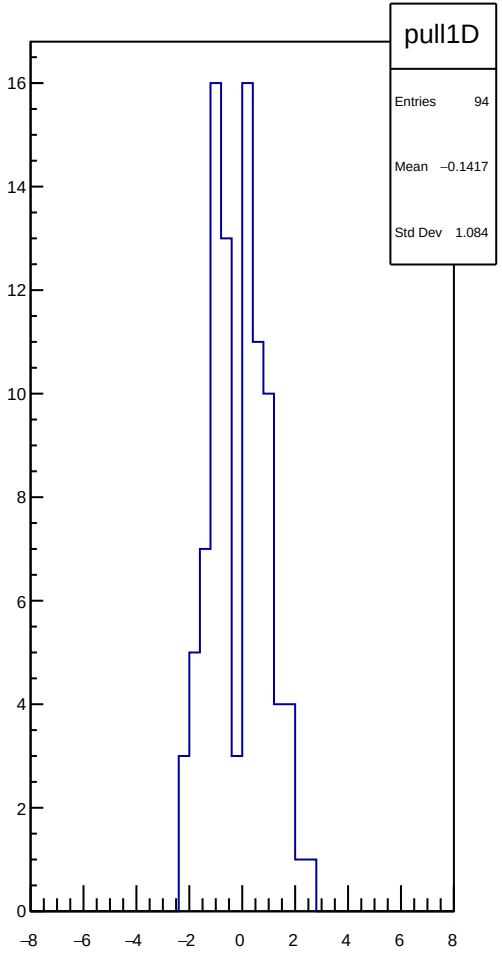

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 100.5 / 93
p0 0.01267 ± 0.07629
pull
Entries 94
Mean 83.83
Std Dev 71.03
pull1D
Entries 94
Mean −0.02322
Std Dev 1.034

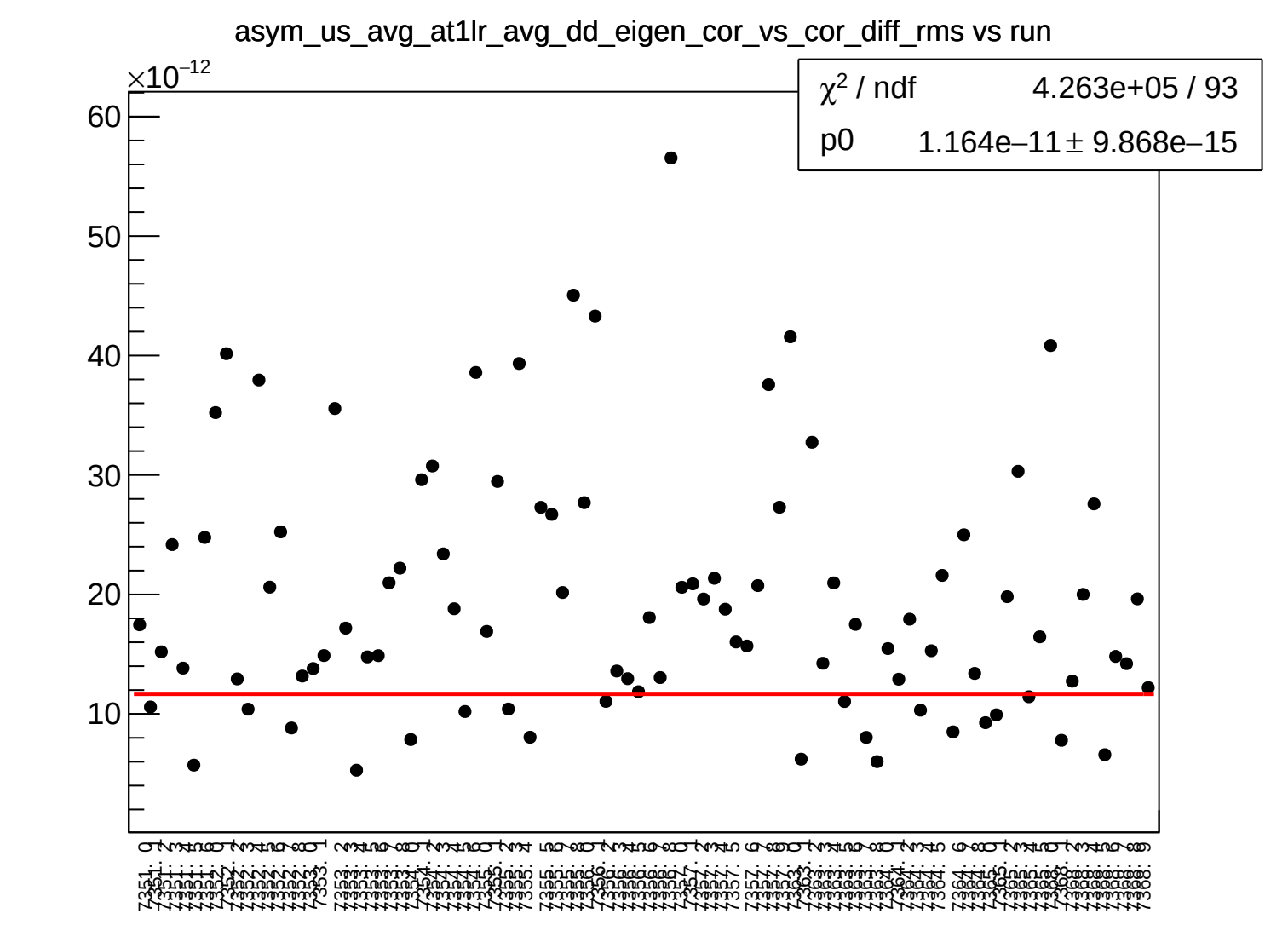

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.717e+05 / 93
p0 69.23 ± 0.05394
250
200
150
100
50

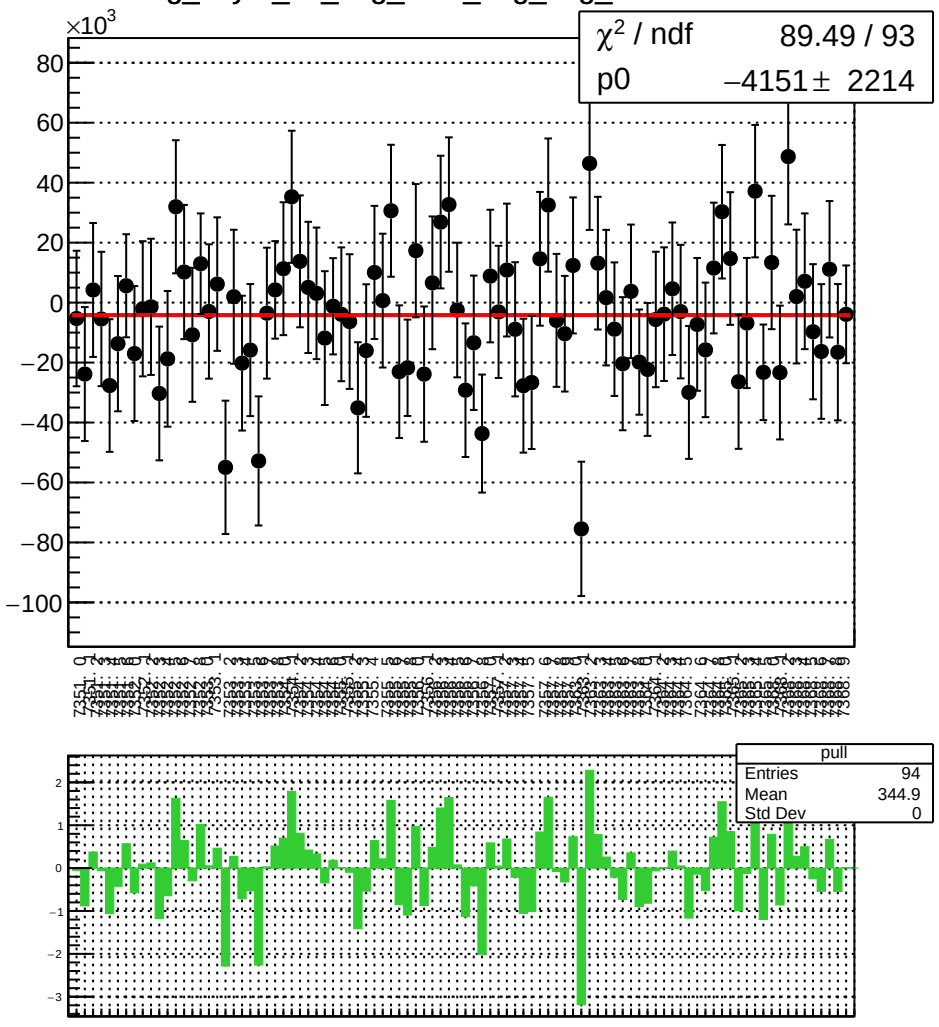

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.5 / 93
p0 0.01267 ± 0.07629
pull
Entries 94
Mean 83.83
Std Dev 71.03
pull1D
Entries 94
Mean −0.02322
Std Dev 1.034

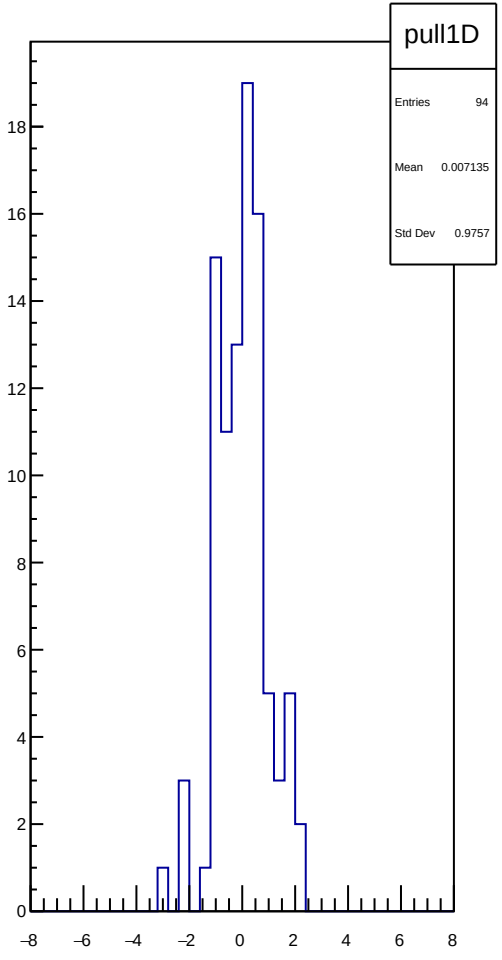

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.717e+05 / 93
p0 69.23 ± 0.05394
250
200
150
100
50

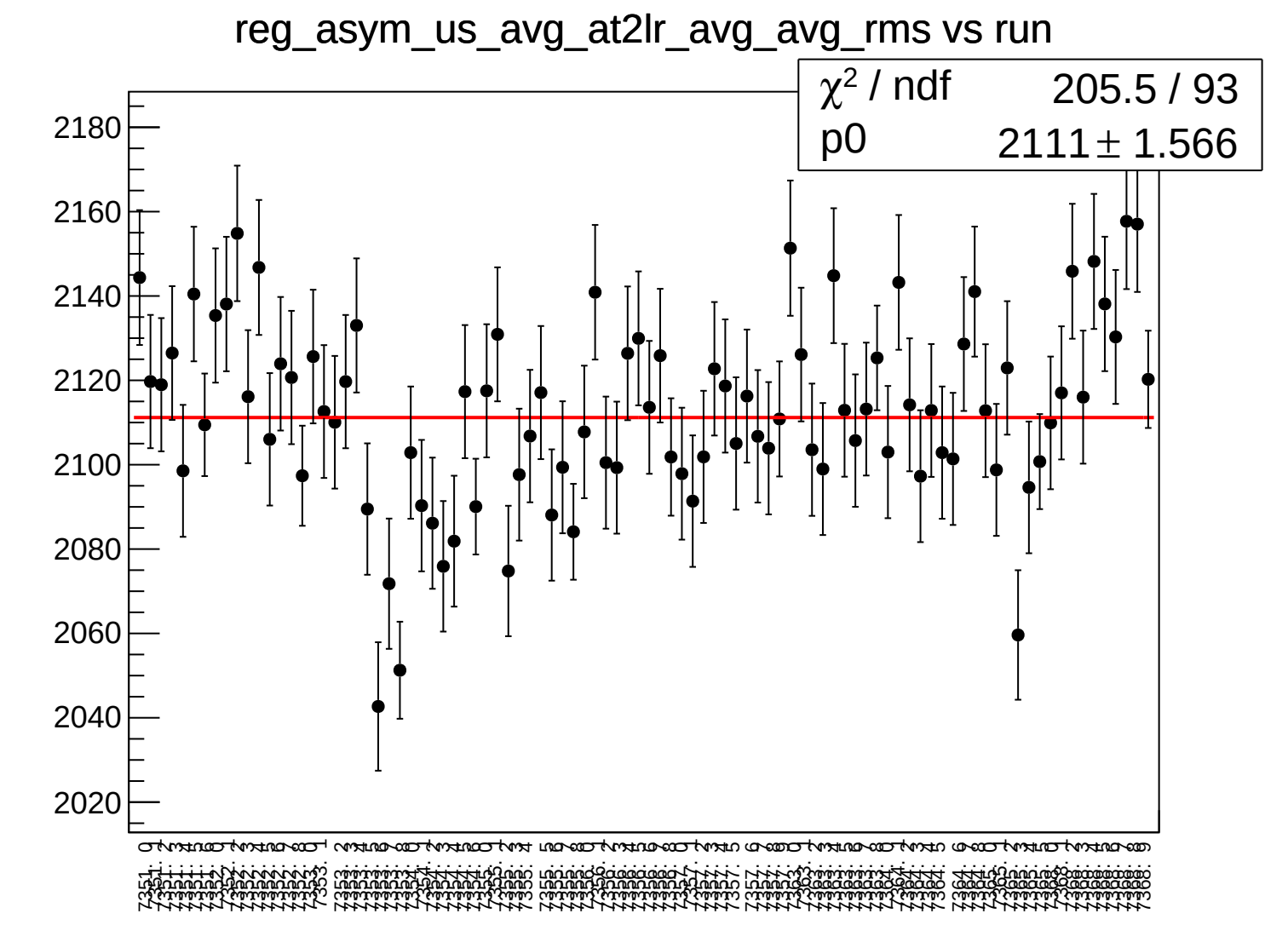

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 112.4 / 93
p0 2.133e−14 ± 1.396e−14
pull
Entries 94
Mean 58.83
Std Dev 0

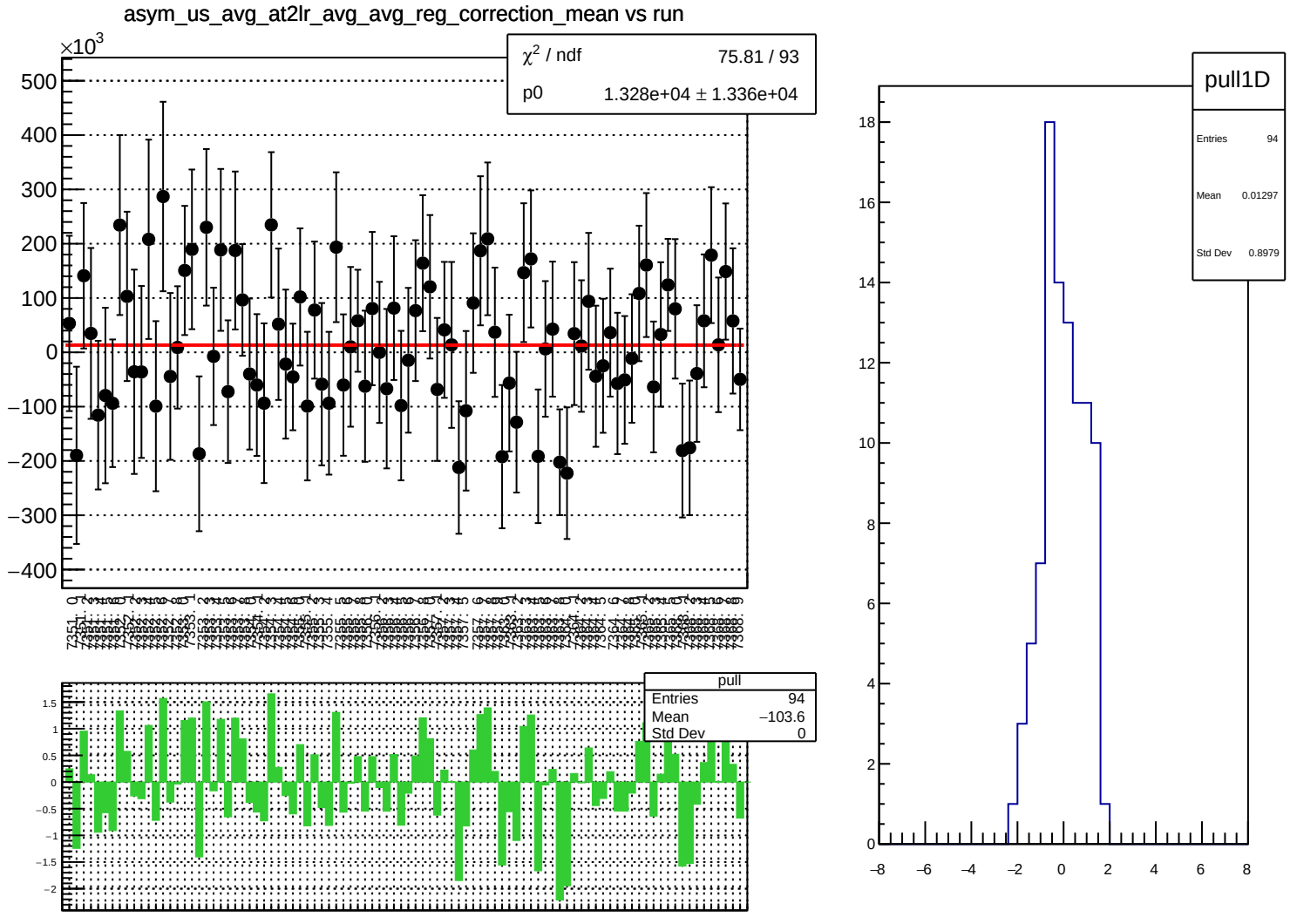

pull1D
Entries 94
Mean −0.1417
Std Dev 1.084

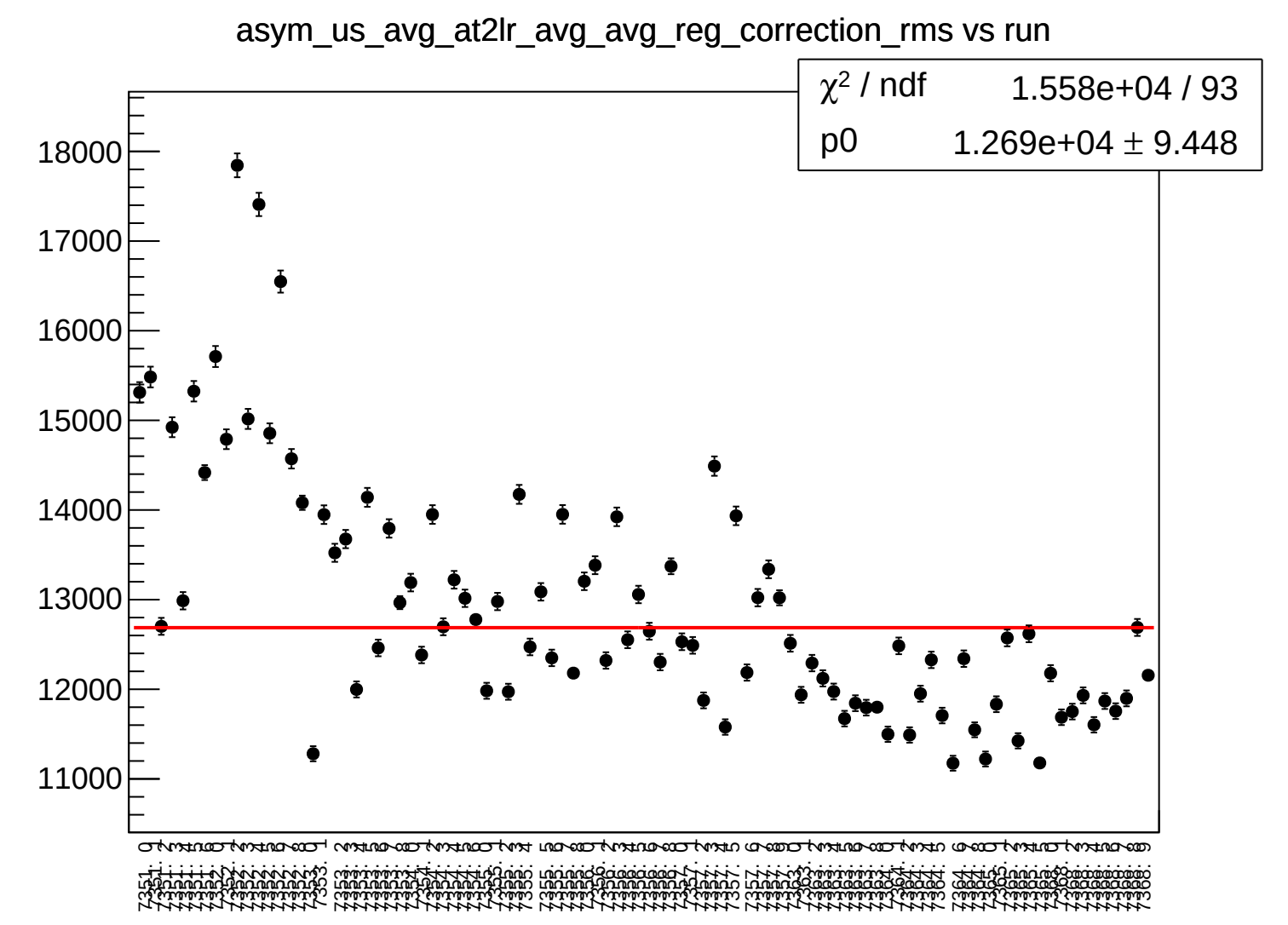

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
60
50
40
30
20
10
χ² / ndf 4.263e+05 / 93
p0 1.164e−11 ± 9.868e−15

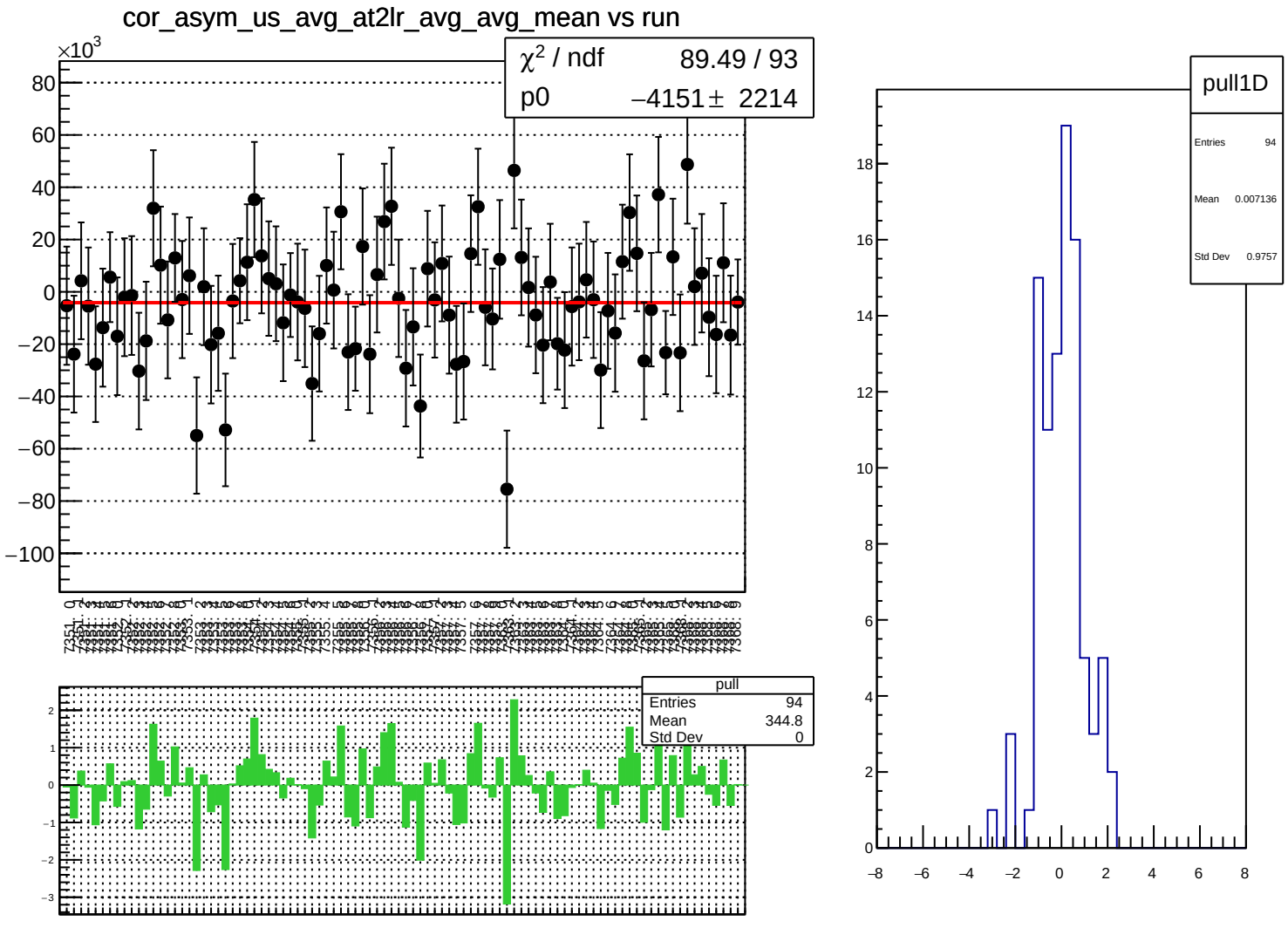

reg_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 89.49 / 93
p0 −4151 ± 2214
pull
Entries 94
Mean 344.9
Std Dev 0

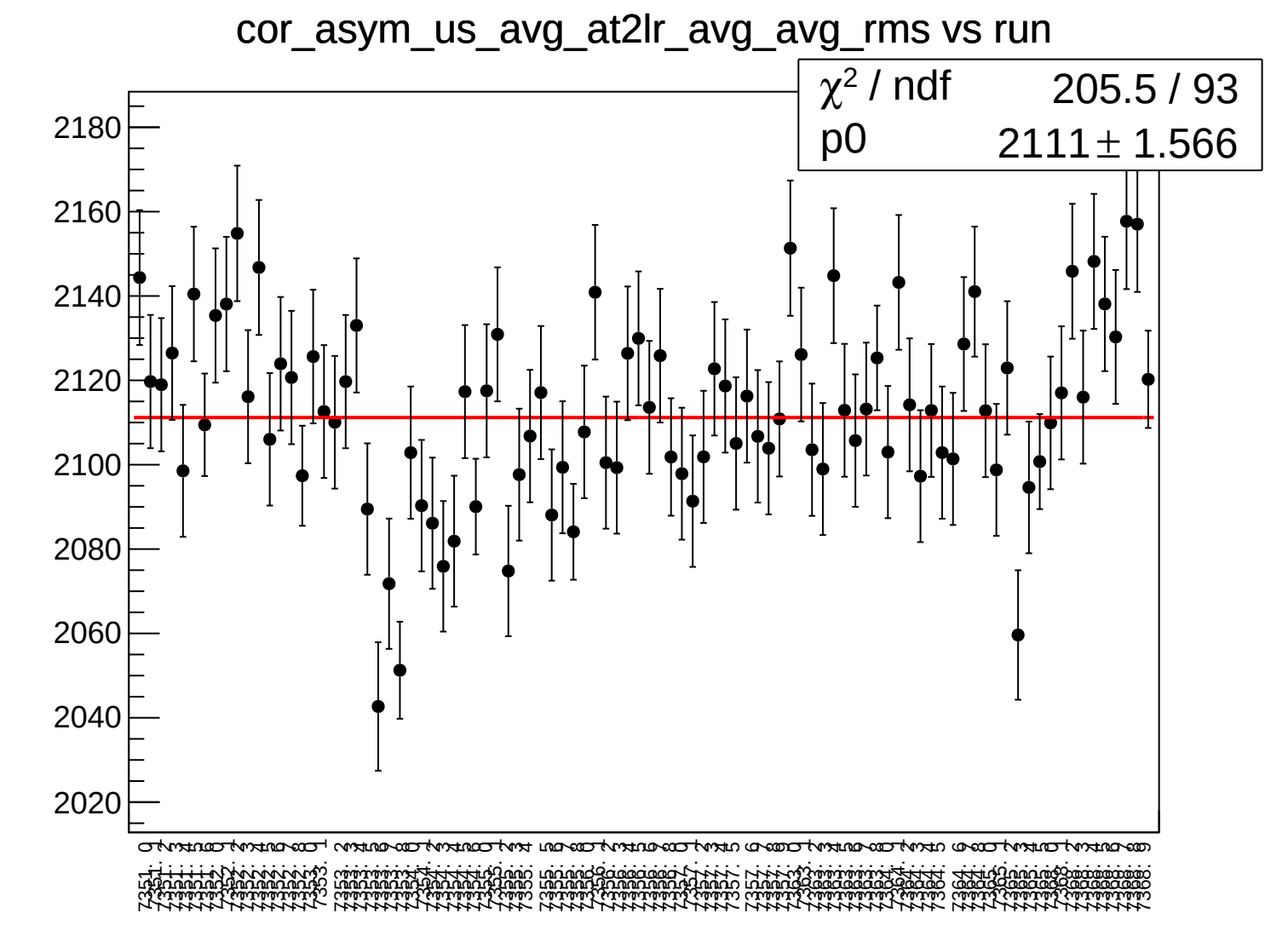

pull1D
Entries 94
Mean 0.007135
Std Dev 0.9757

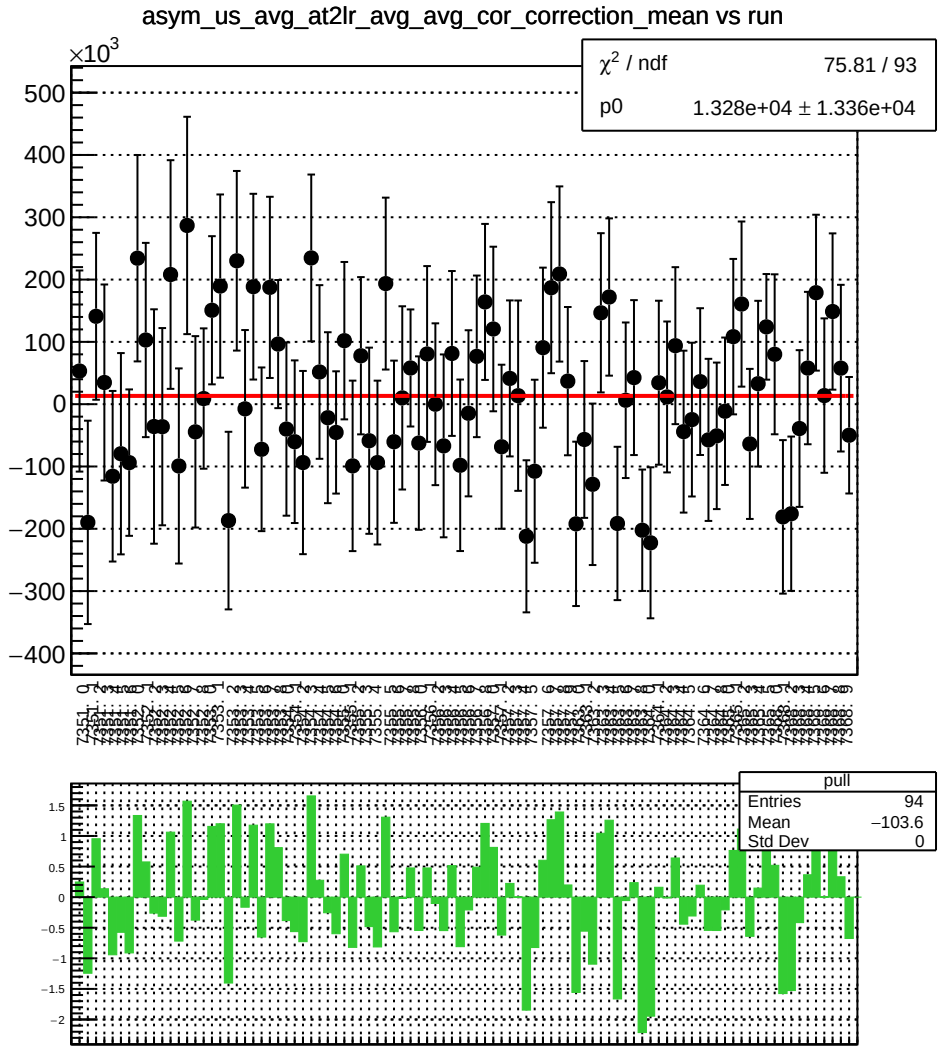

reg_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 205.5 / 93
p0 2111 ± 1.566
2180
2160
2140
2120
2100
2080
2060
2040
2020

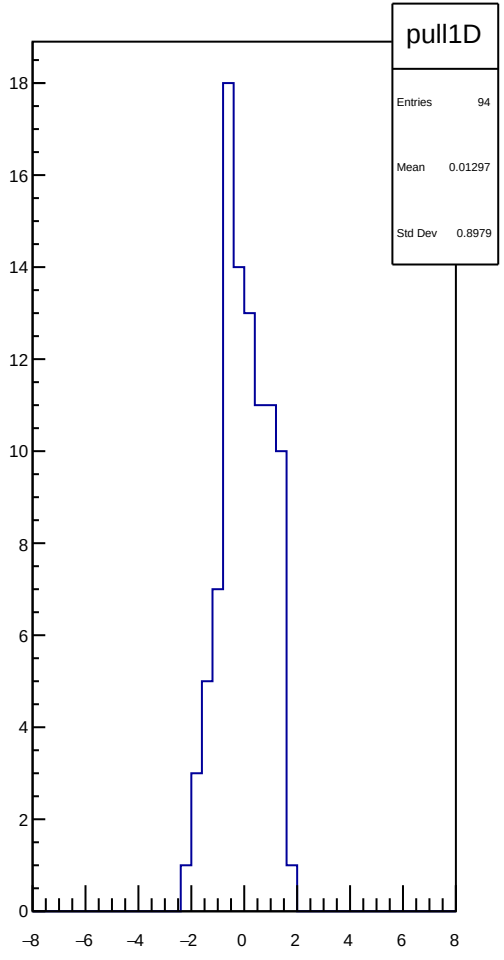

asym_us_avg_at2lr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 75.81 / 93
p0 1.328e+04 ± 1.336e+04
pull
Entries 94
Mean −103.6
Std Dev 0
pull1D
Entries 94
Mean 0.01297
Std Dev 0.8979

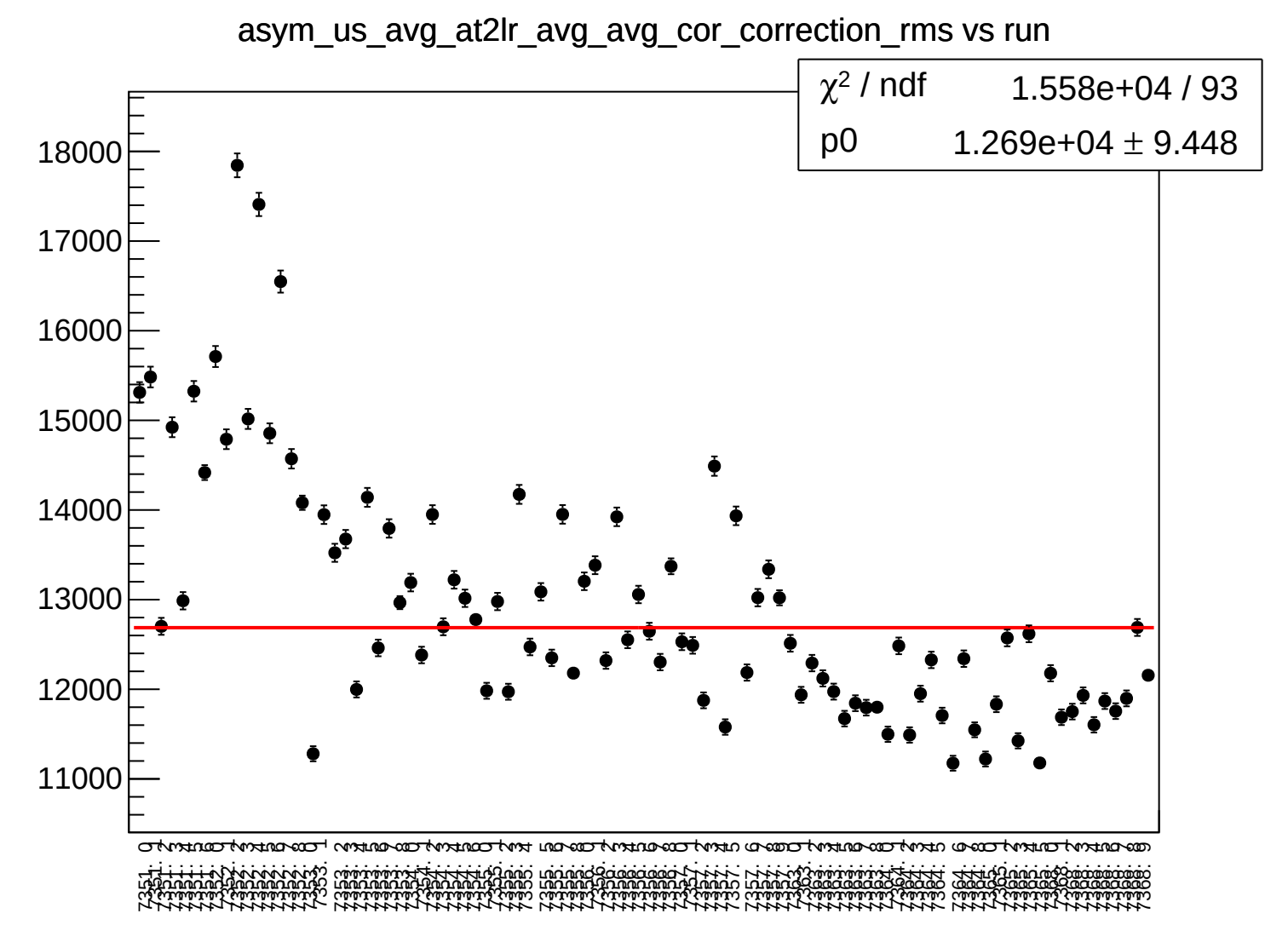

asym_us_avg_at2lr_avg_avg_reg_correction_rms vs run
χ² / ndf 1.558e+04 / 93
p0 1.269e+04 ± 9.448
18000
17000
16000
15000
14000
13000
12000
11000

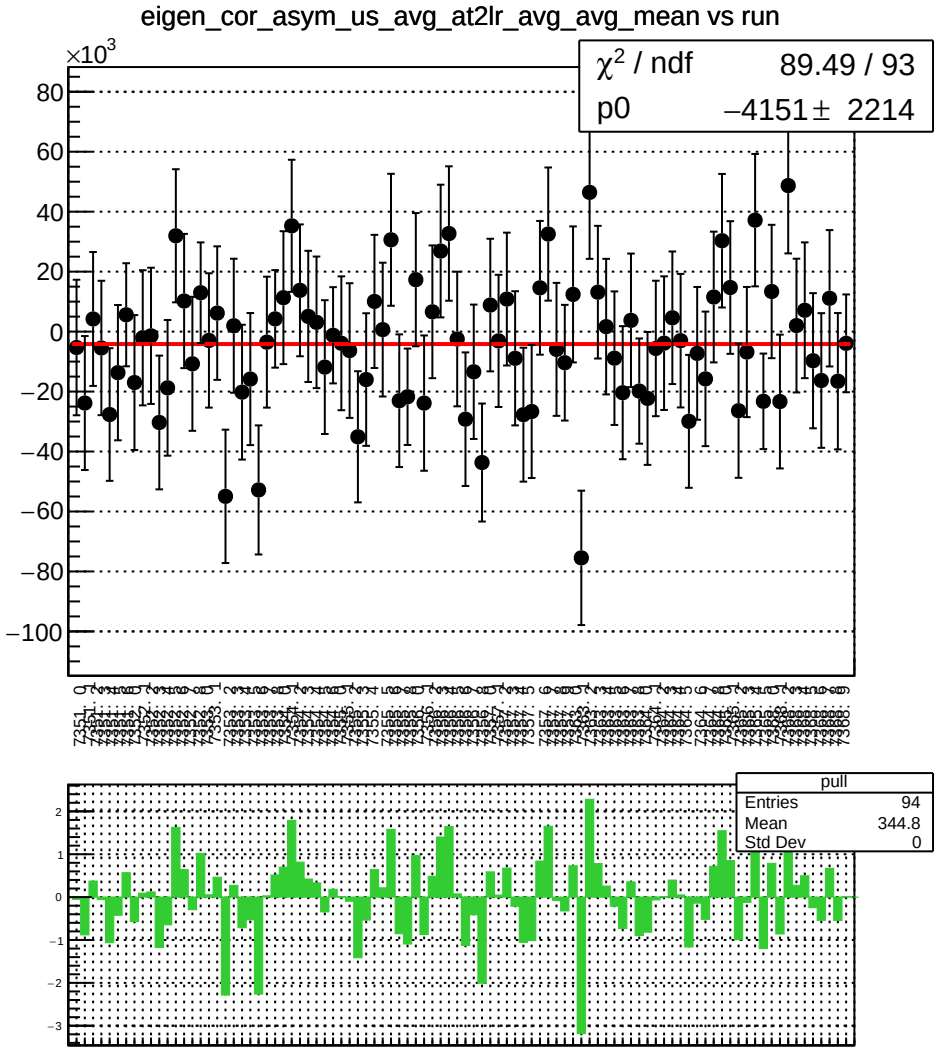

cor_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 89.49 / 93
p0 −4151 ± 2214
pull
Entries 94
Mean 344.8
Std Dev 0
pull1D
Entries 94
Mean 0.007136
Std Dev 0.9757

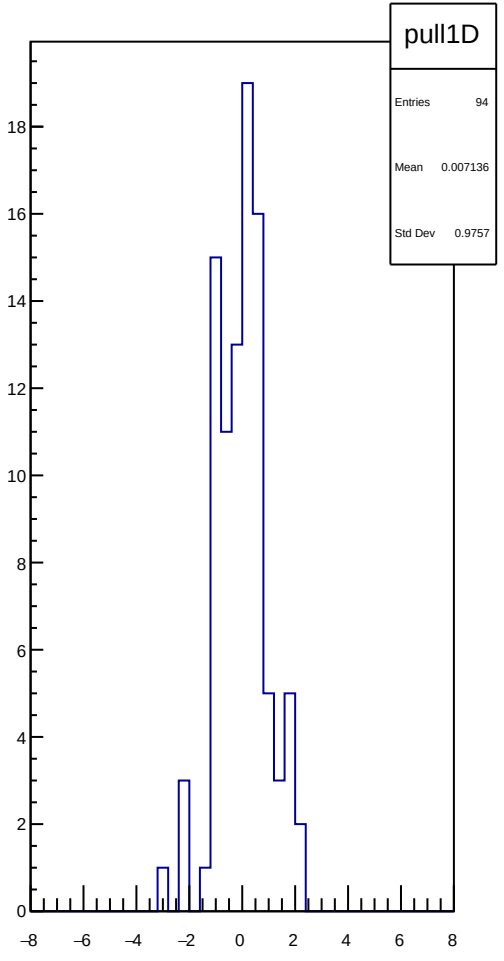

cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 205.5 / 93
p0 2111 ± 1.566
2180
2160
2140
2120
2100
2080
2060
2040
2020

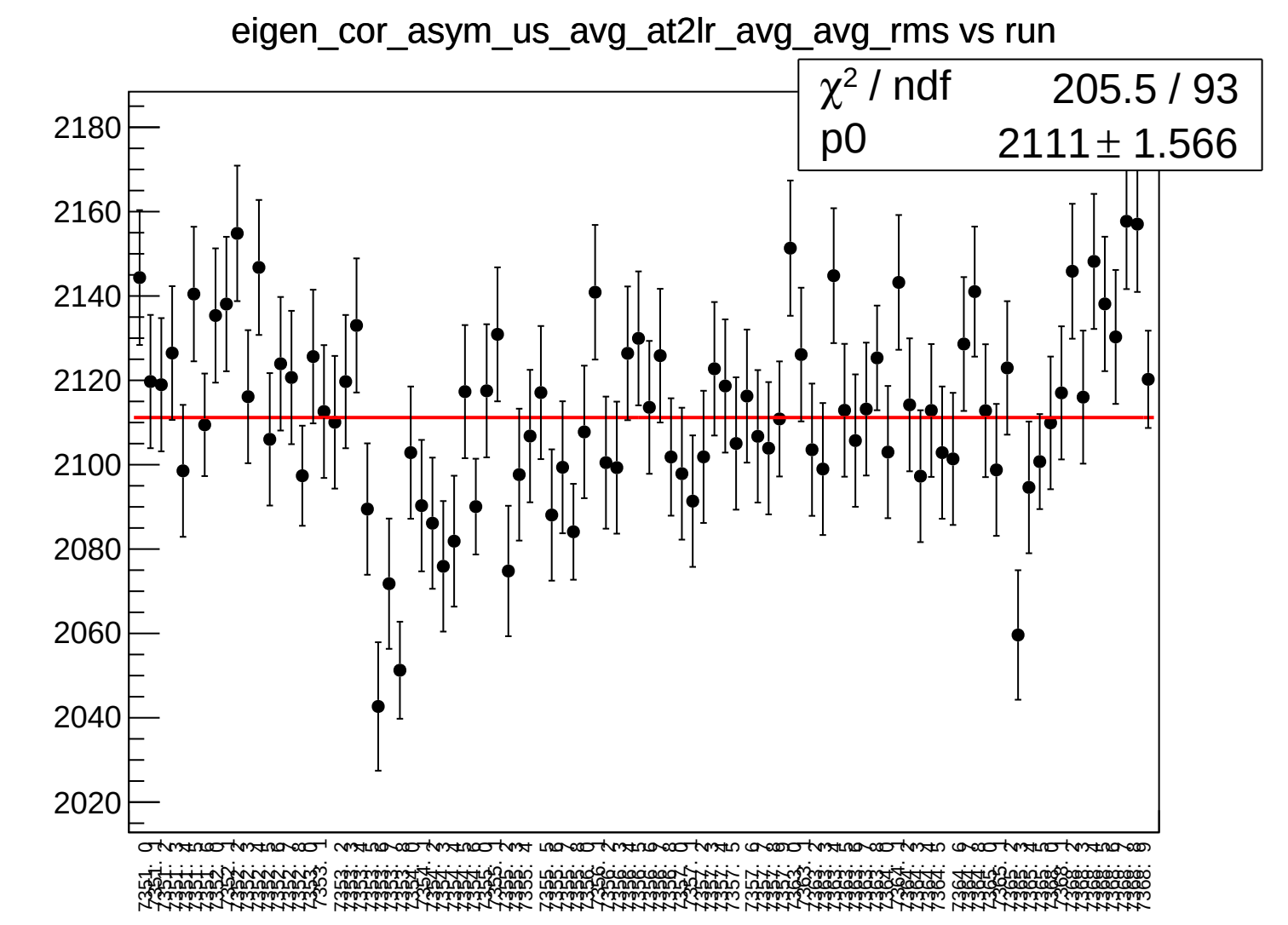

asym_us_avg_at2lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 75.81 / 93
p0 1.328e+04 ± 1.336e+04
pull
Entries 94
Mean −103.6
Std Dev 0

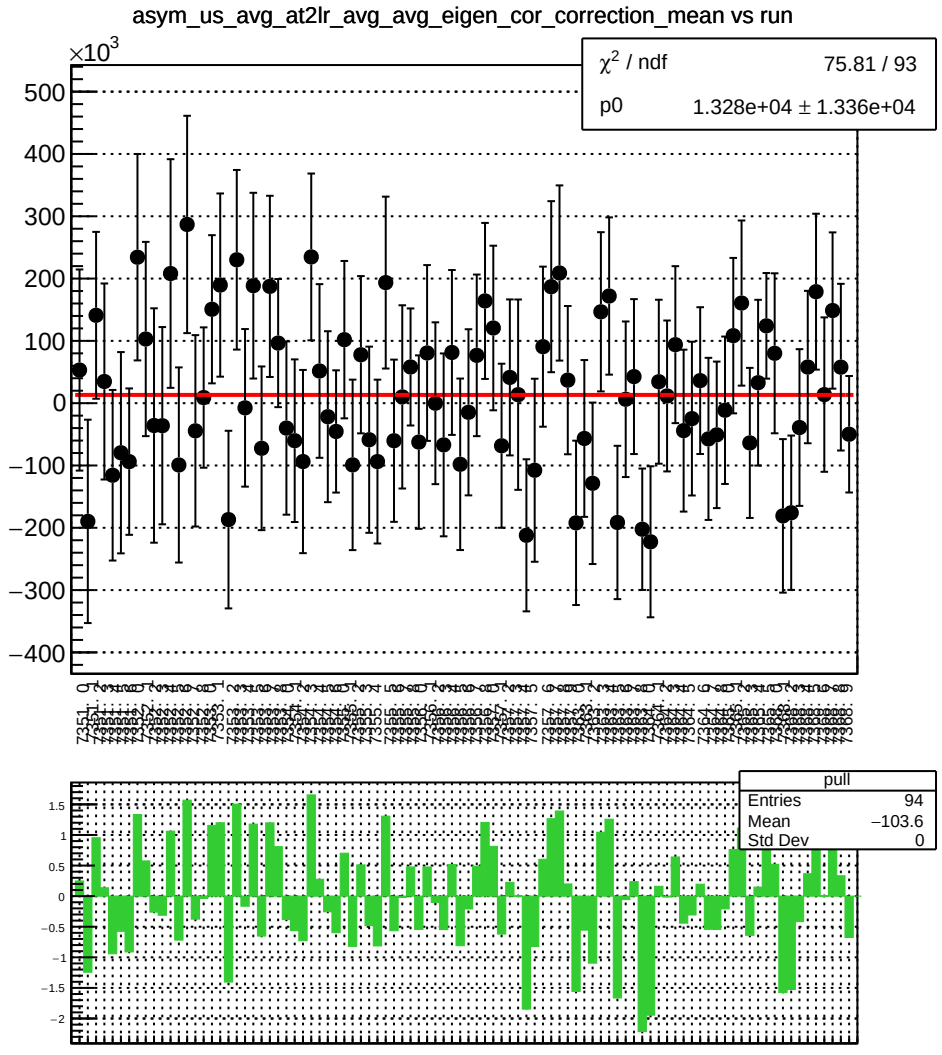

pull1D
Entries 94
Mean 0.01297
Std Dev 0.8979

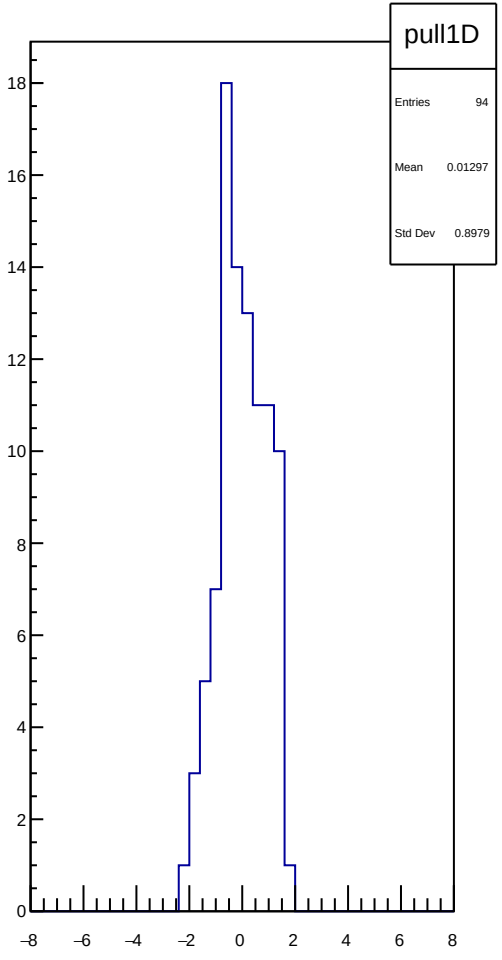

asym_us_avg_at2lr_avg_avg_cor_correction_rms vs run
χ² / ndf 1.558e+04 / 93
p0 1.269e+04 ± 9.448
18000
17000
16000
15000
14000
13000
12000
11000

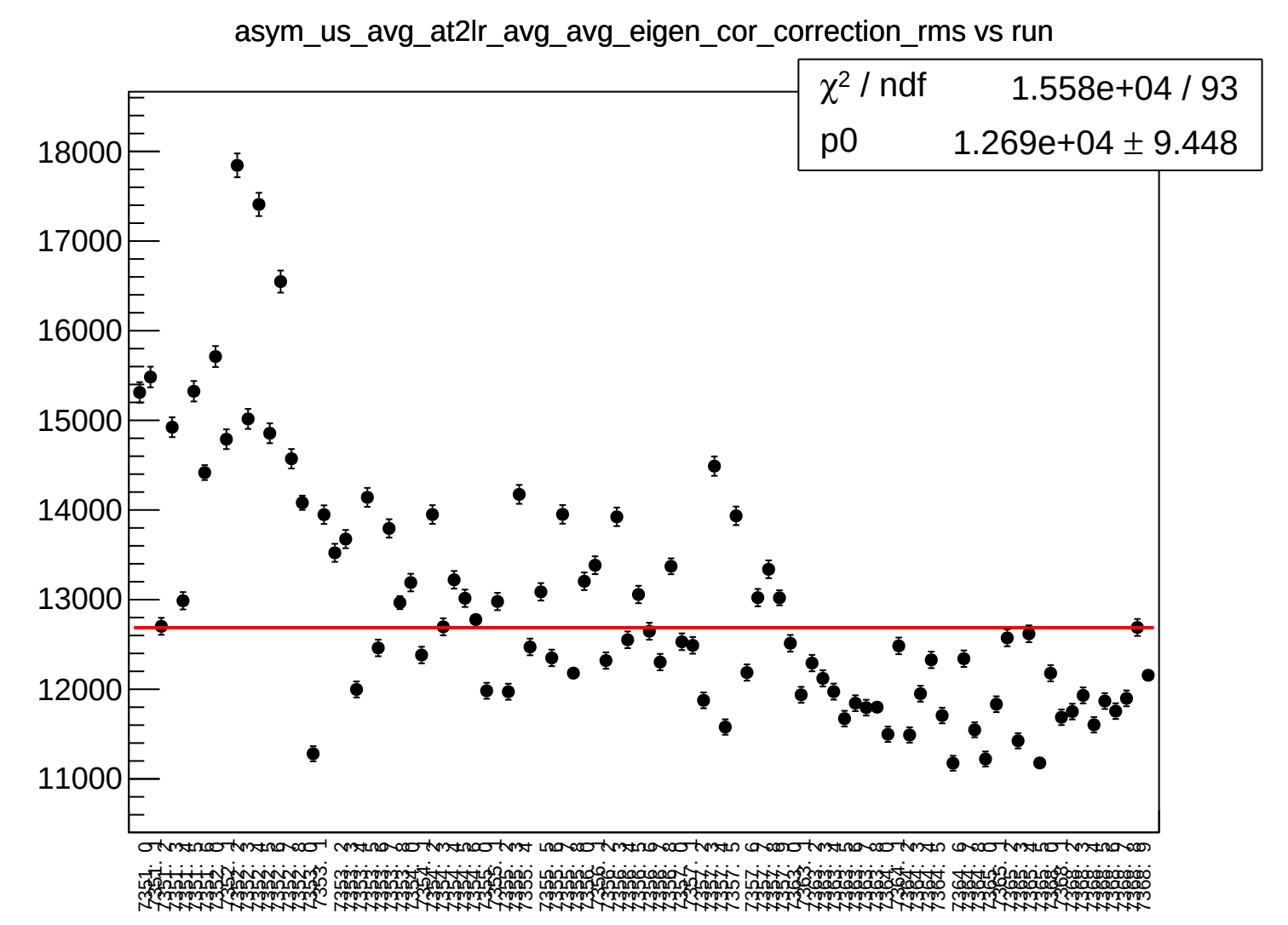

eigen_cor_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 89.49 / 93
p0 −4151 ± 2214
pull
Entries 94
Mean 344.8
Std Dev 0

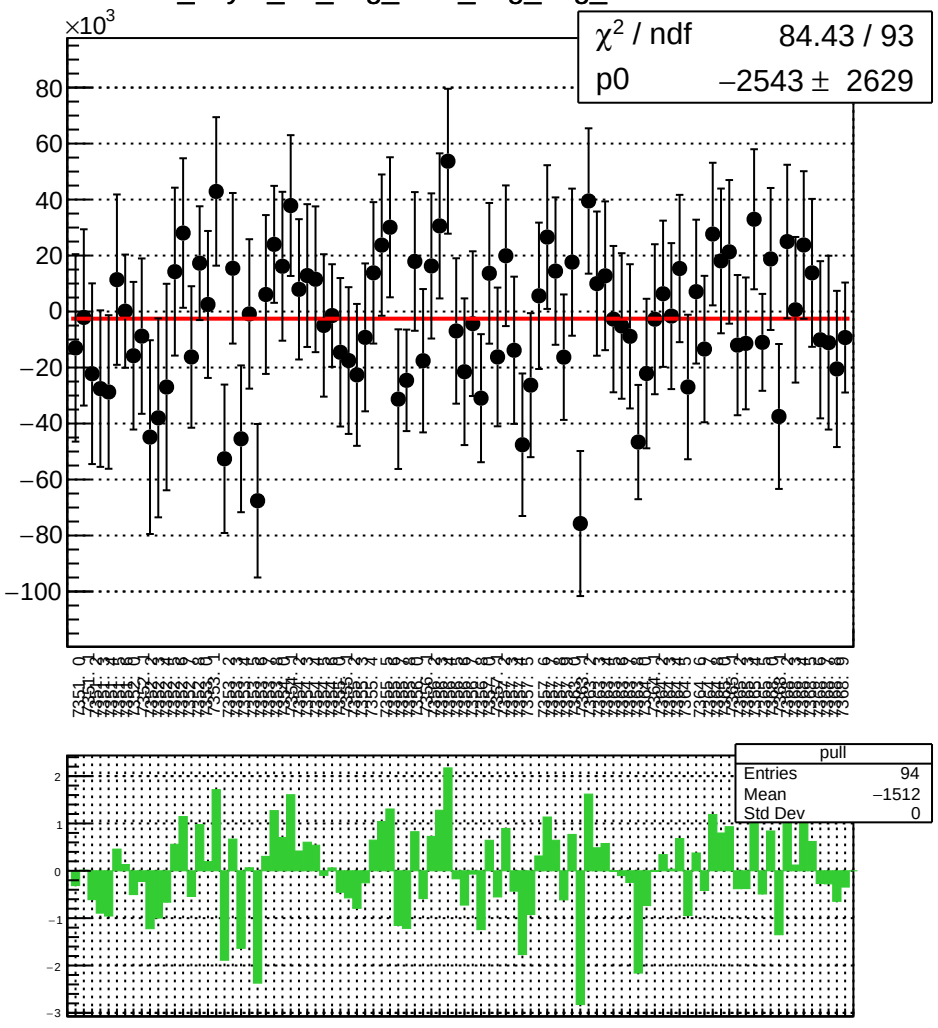

pull1D
Entries 94
Mean 0.007136
Std Dev 0.9757

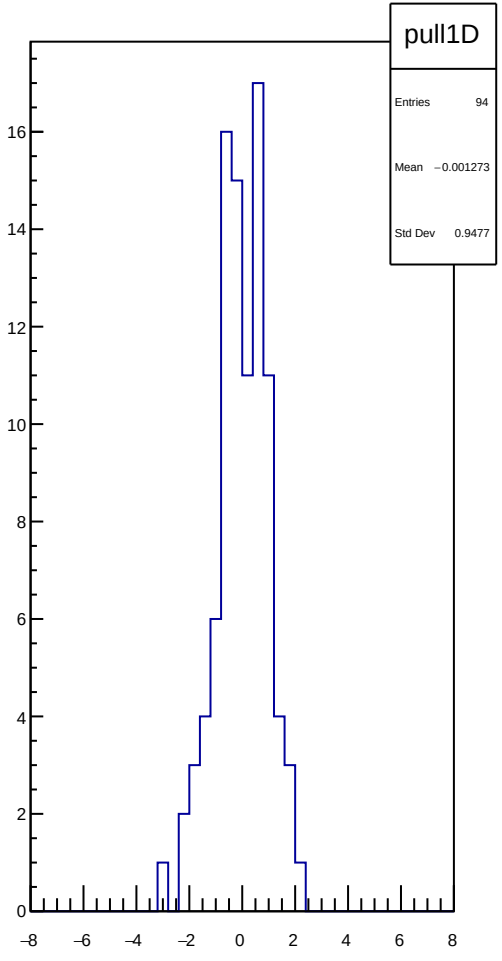

eigen_cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 205.5 / 93
p0 2111 ± 1.566
2180
2160
2140
2120
2100
2080
2060
2040
2020

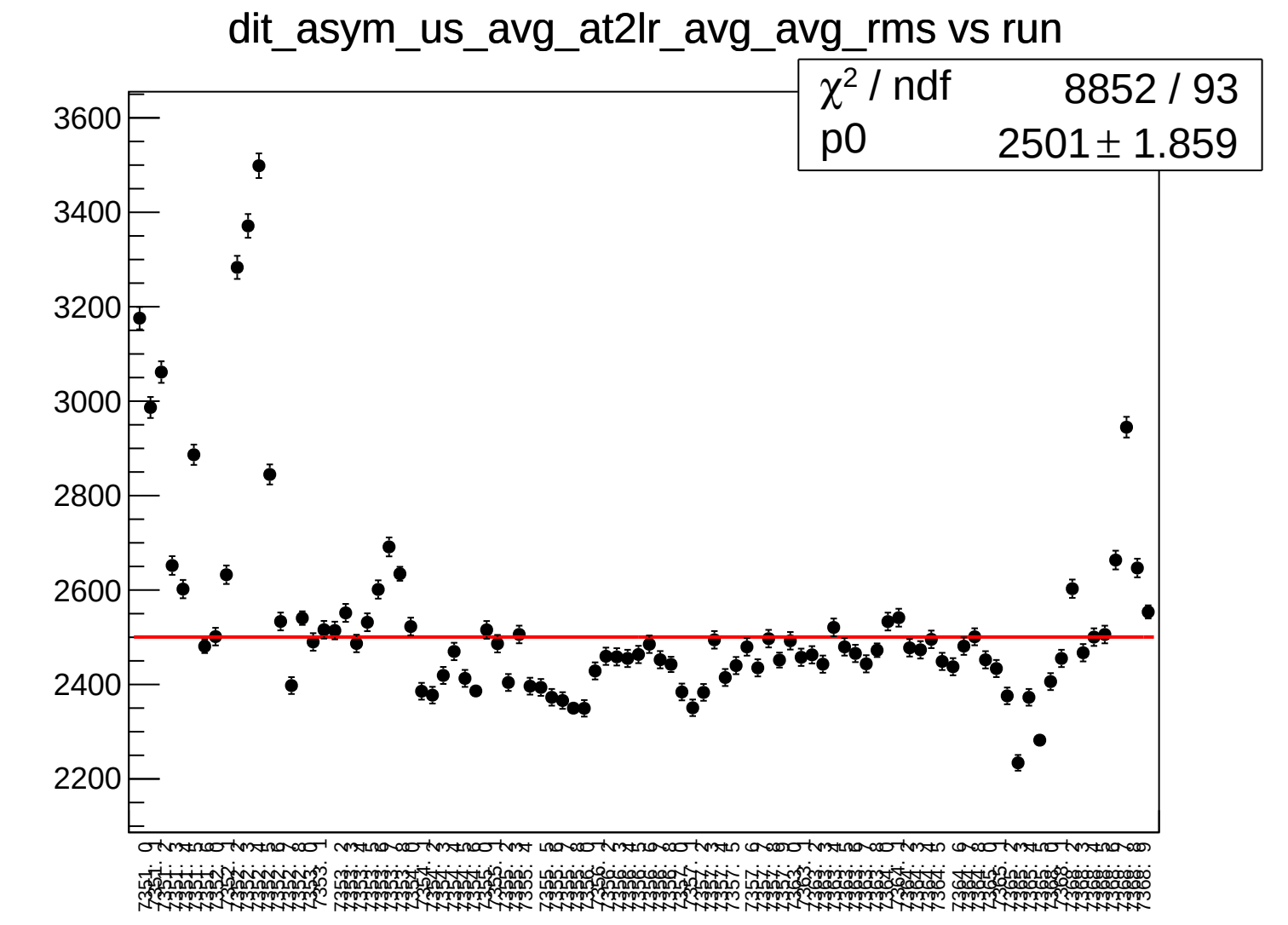

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 75.81 / 93
p0 1.328e+04 ± 1.336e+04
pull
Entries 94
Mean −103.6
Std Dev 0

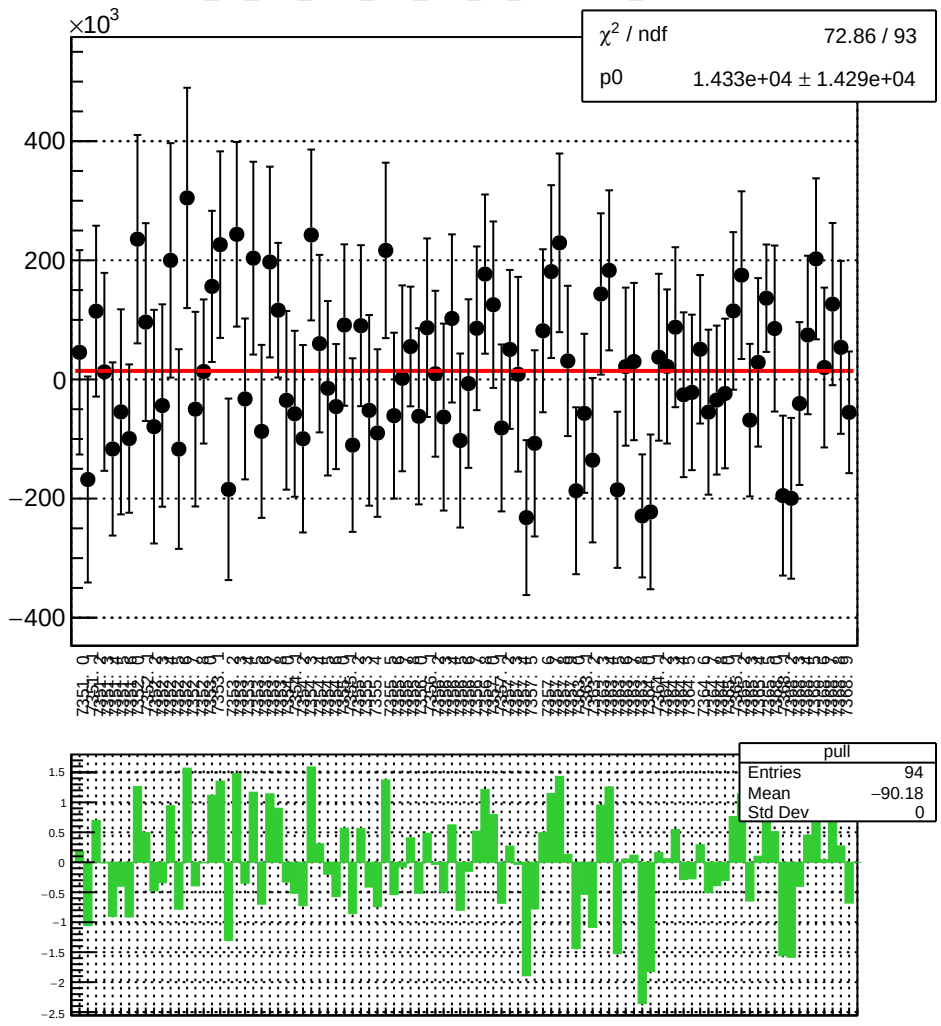

pull1D
Entries 94
Mean 0.01297
Std Dev 0.8979

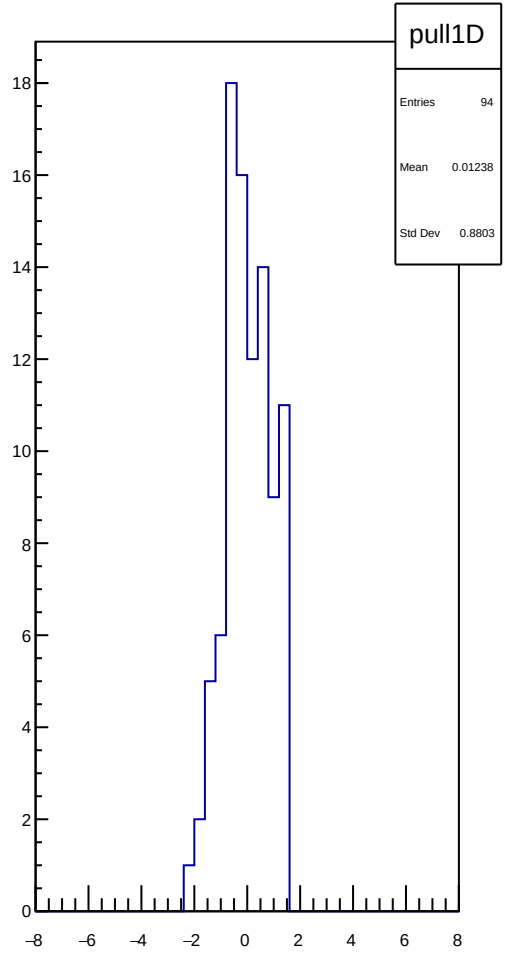

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.558e+04 / 93
p0 1.269e+04 ± 9.448
18000
17000
16000
15000
14000
13000
12000
11000

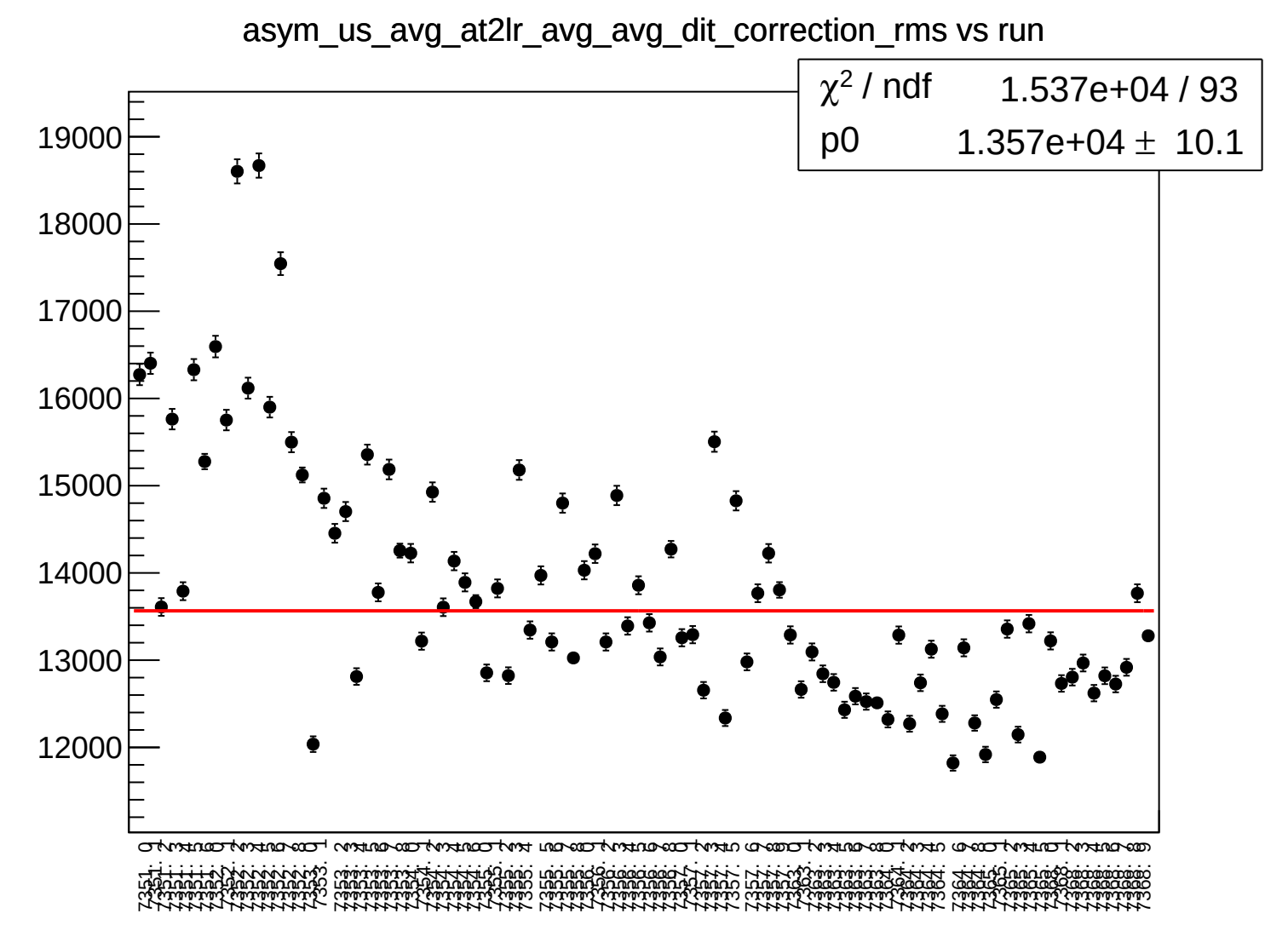

dit_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 84.43 / 93
p0 −2543 ± 2629
pull
Entries 94
Mean −1512
Std Dev 0

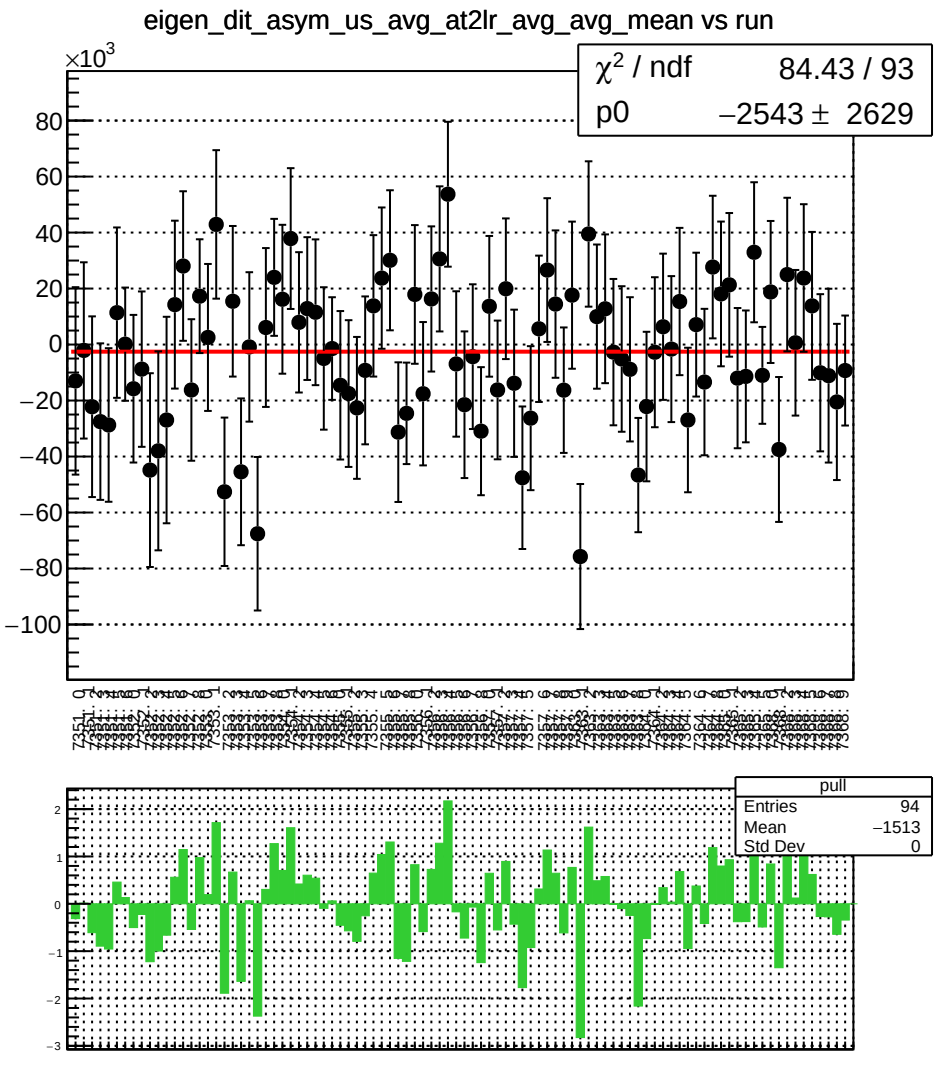

pull1D
Entries 94
Mean −0.001273
Std Dev 0.9477

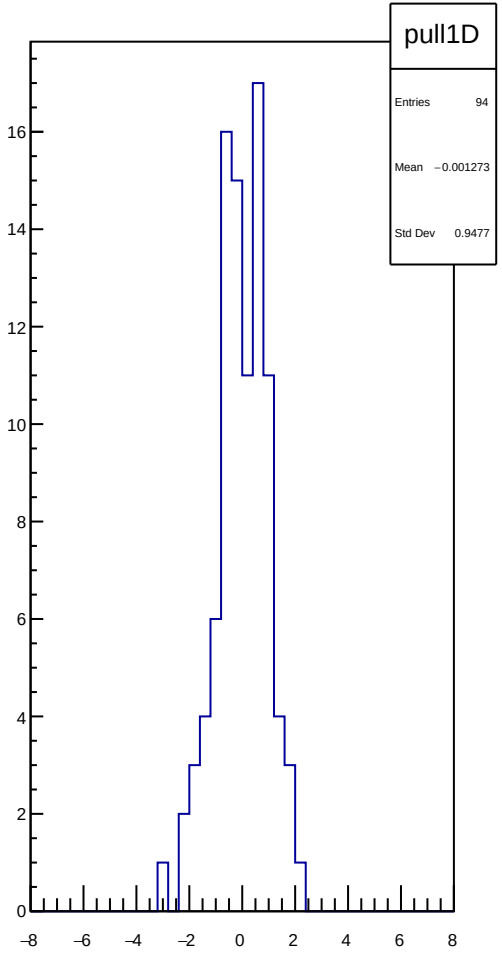

dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 8852 / 93
p0 2501 ± 1.859
3600
3400
3200
3000
2800
2600
2400
2200

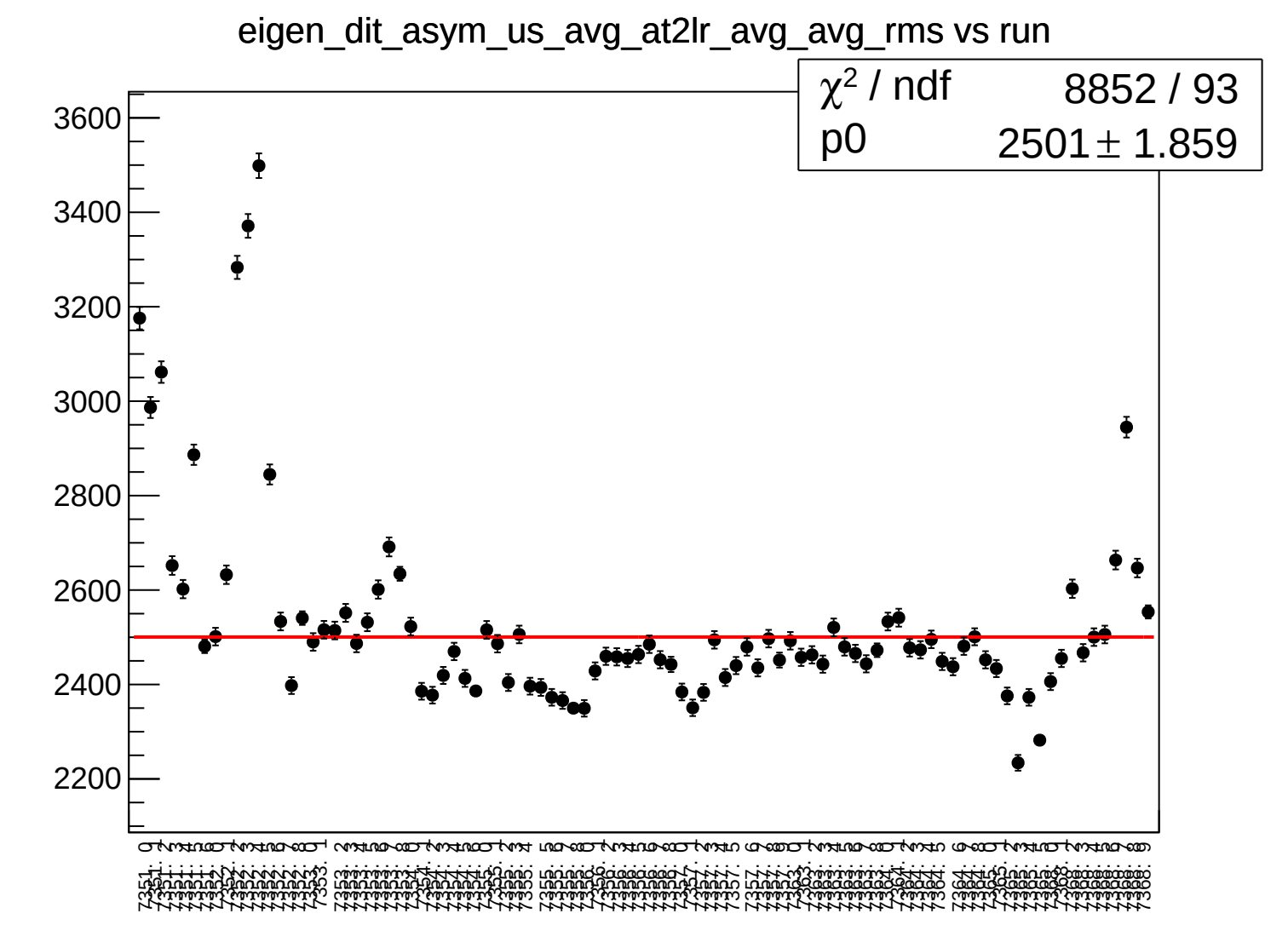

asym_us_avg_at2lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 72.86 / 93
p0 1.433e+04 ± 1.429e+04
400
200
0
−200
−400
pull
Entries 94
Mean −90.18
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

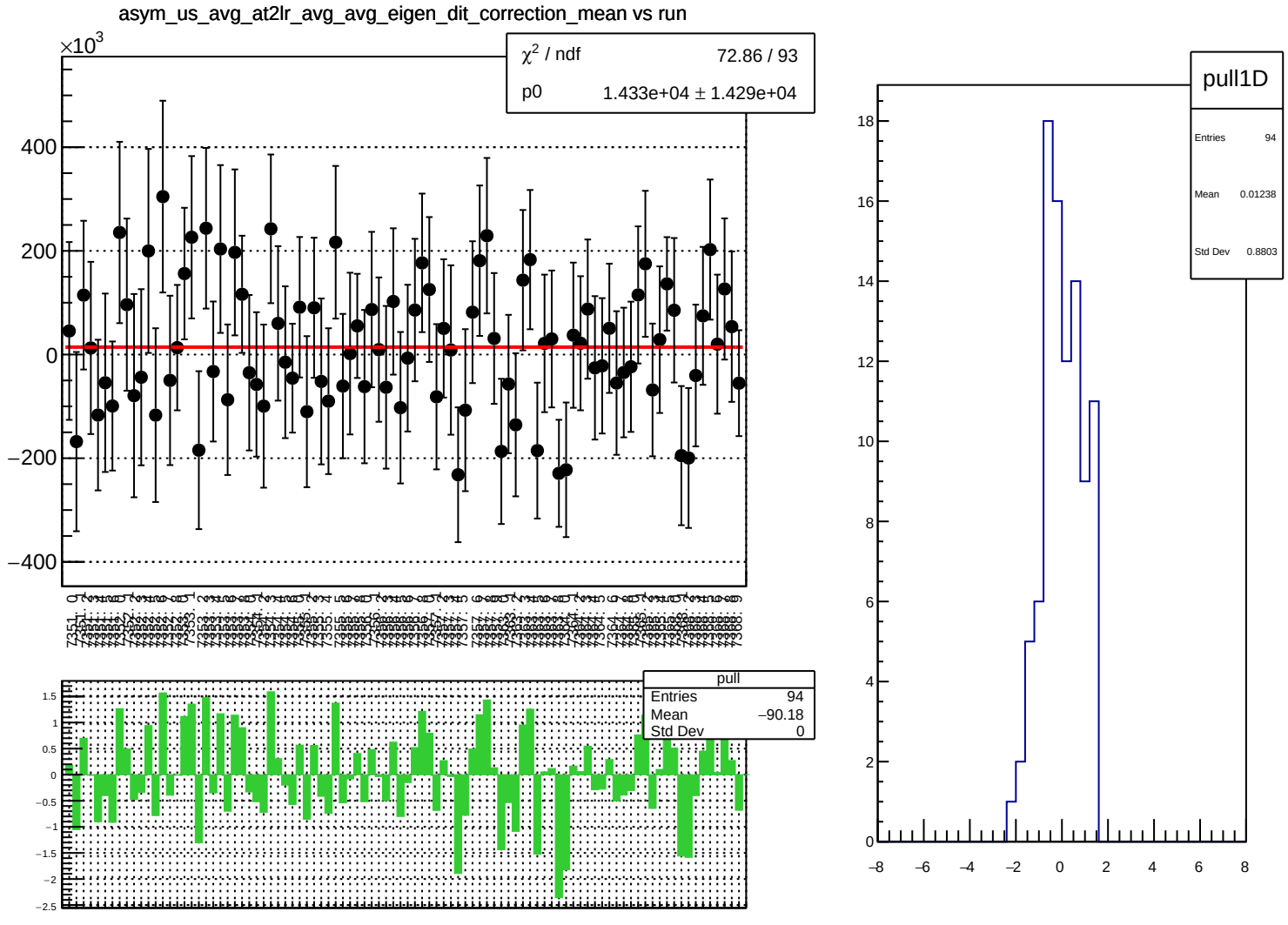

pull1D
Entries 94
Mean 0.01238
Std Dev 0.8803
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

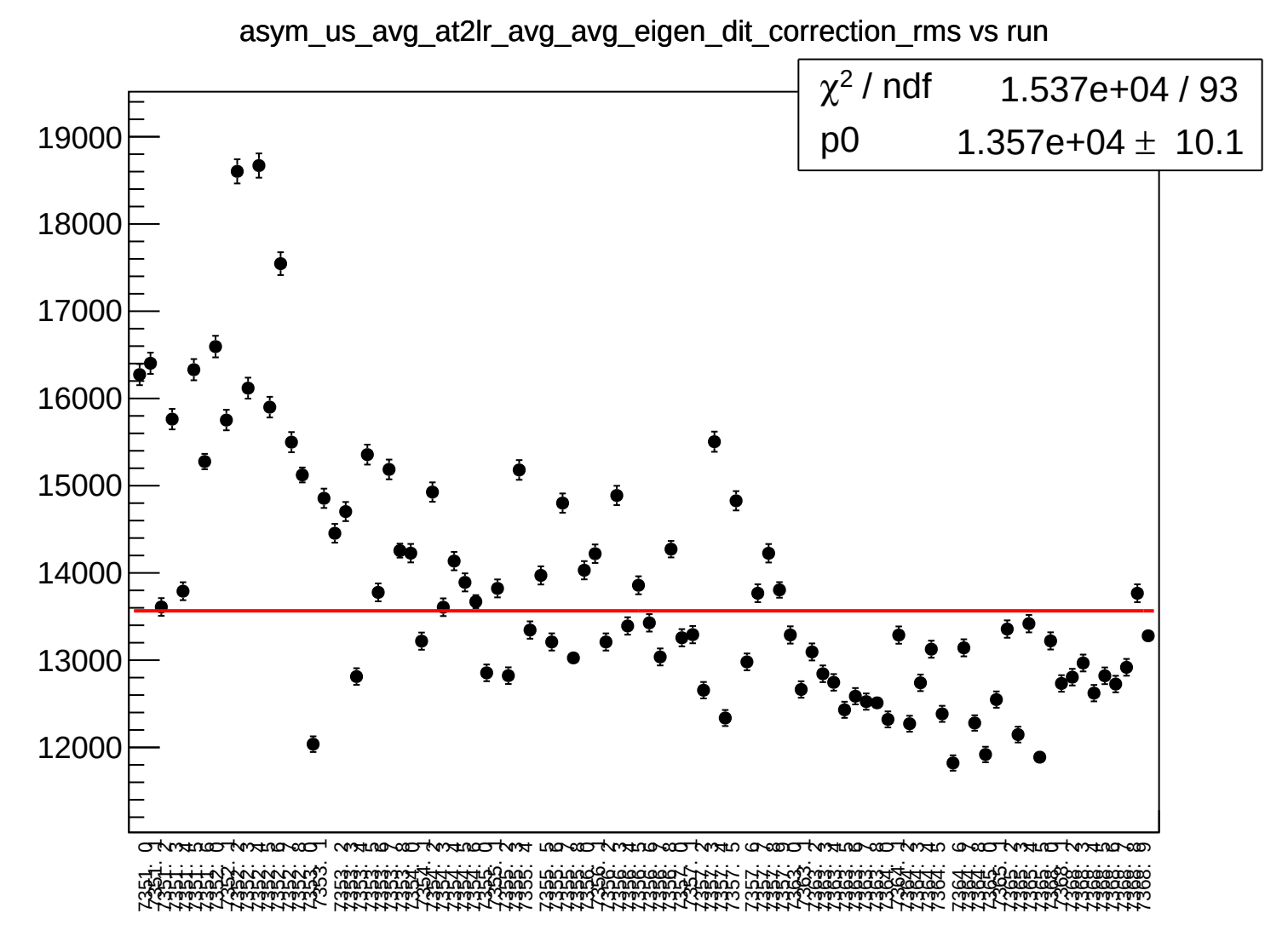

asym_us_avg_at2lr_avg_avg_dit_correction_rms vs run
χ^2 / ndf 1.537e+04 / 93
p0 1.357e+04 ± 10.1
19000
18000
17000
16000
15000
14000
13000
12000

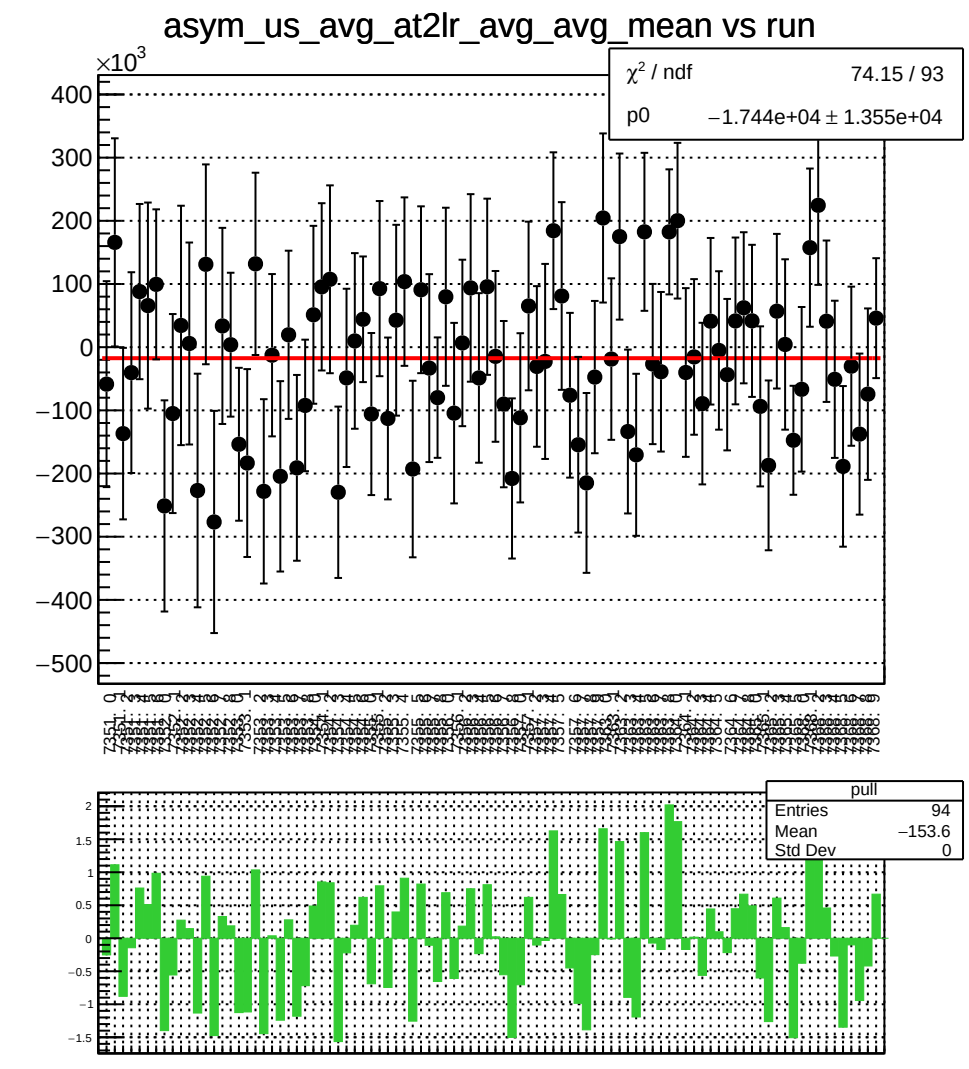

eigen_dit_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 84.43 / 93
p0 −2543 ± 2629
pull
Entries 94
Mean −1513
Std Dev 0

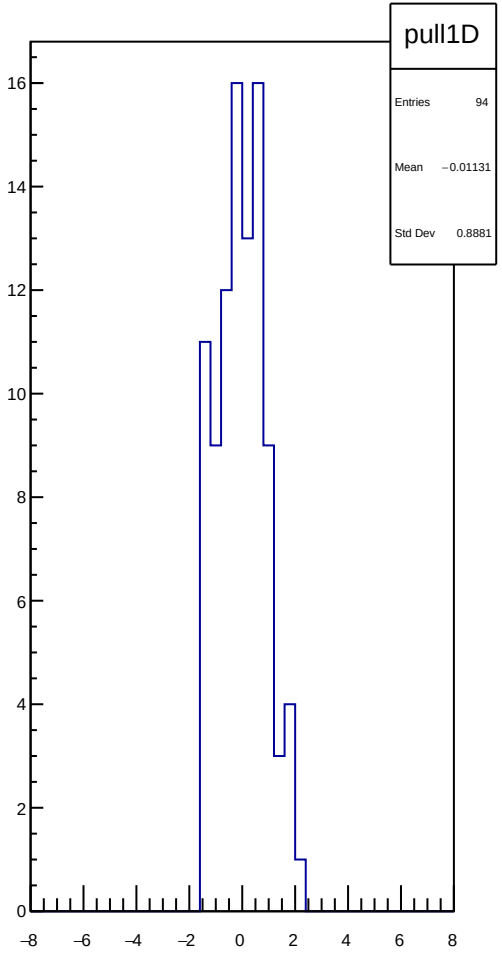

pull1D
Entries 94
Mean −0.001273
Std Dev 0.9477

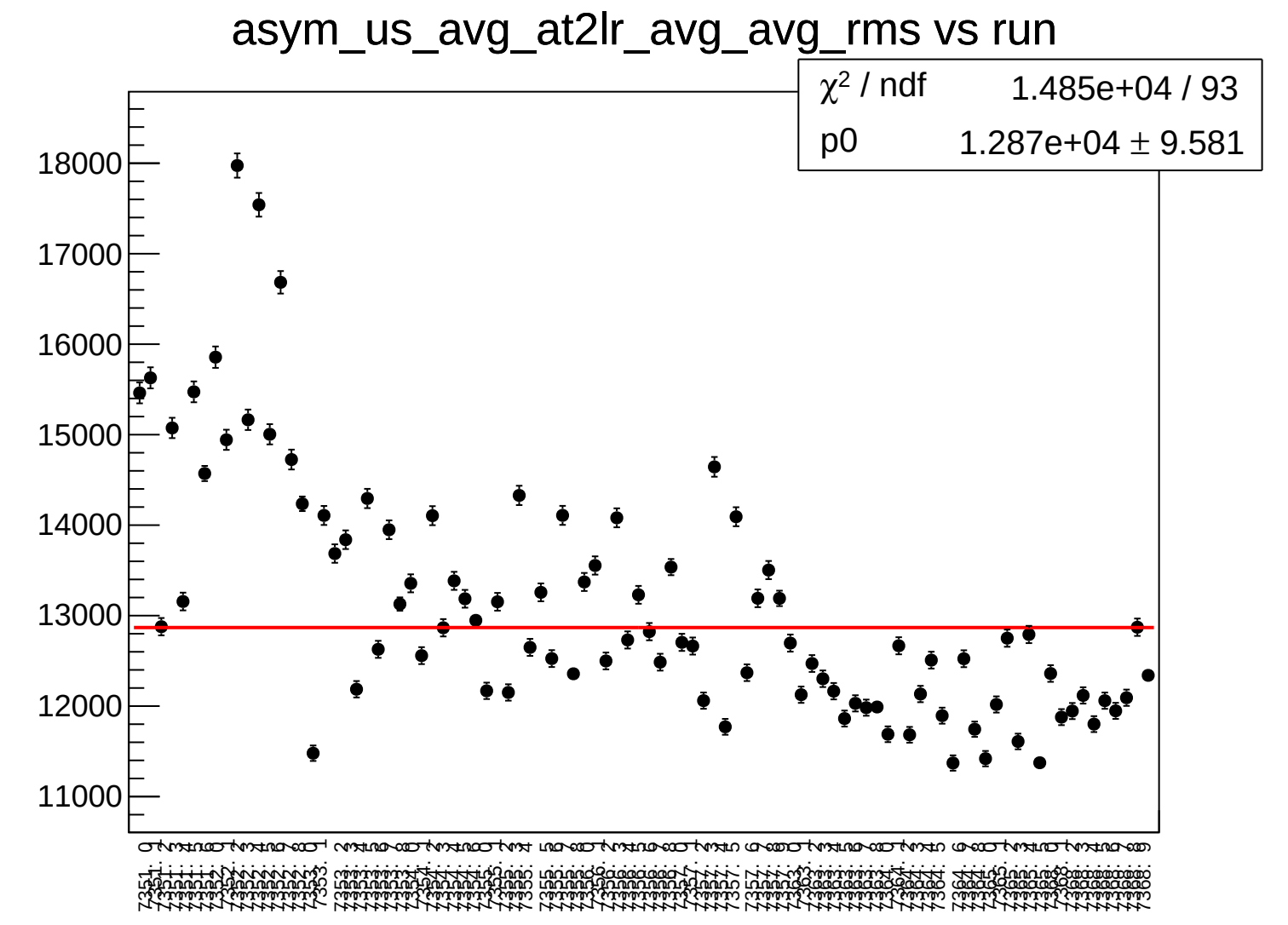

eigen_dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ^2 / ndf 8852 / 93
p0 2501 ± 1.859
3600
3400
3200
3000
2800
2600
2400
2200

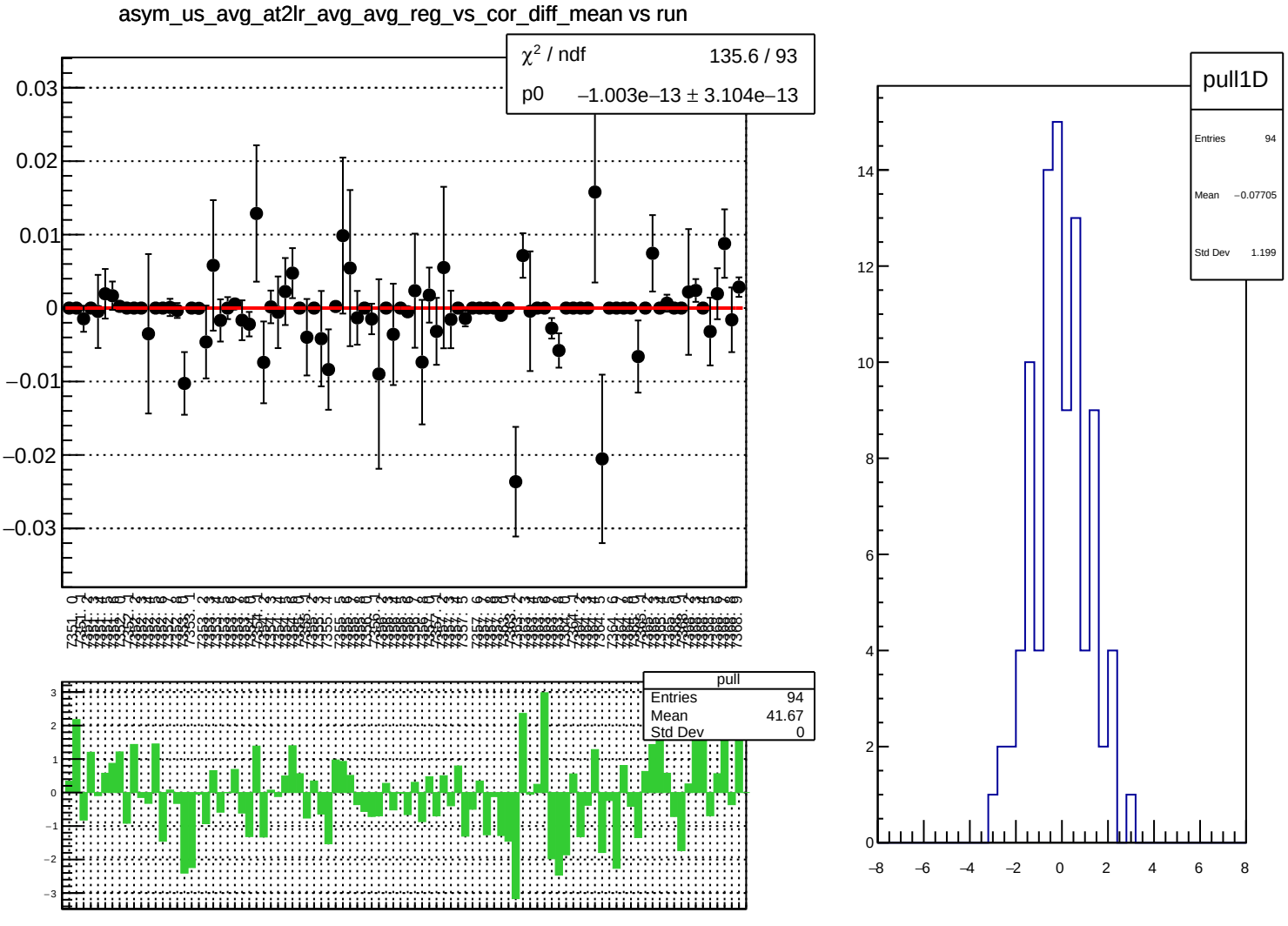

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 72.86 / 93
p0 1.433e+04 ± 1.429e+04
400
200
0
−200
−400
pull
Entries 94
Mean −90.18
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 94
Mean 0.01238
Std Dev 0.8803
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

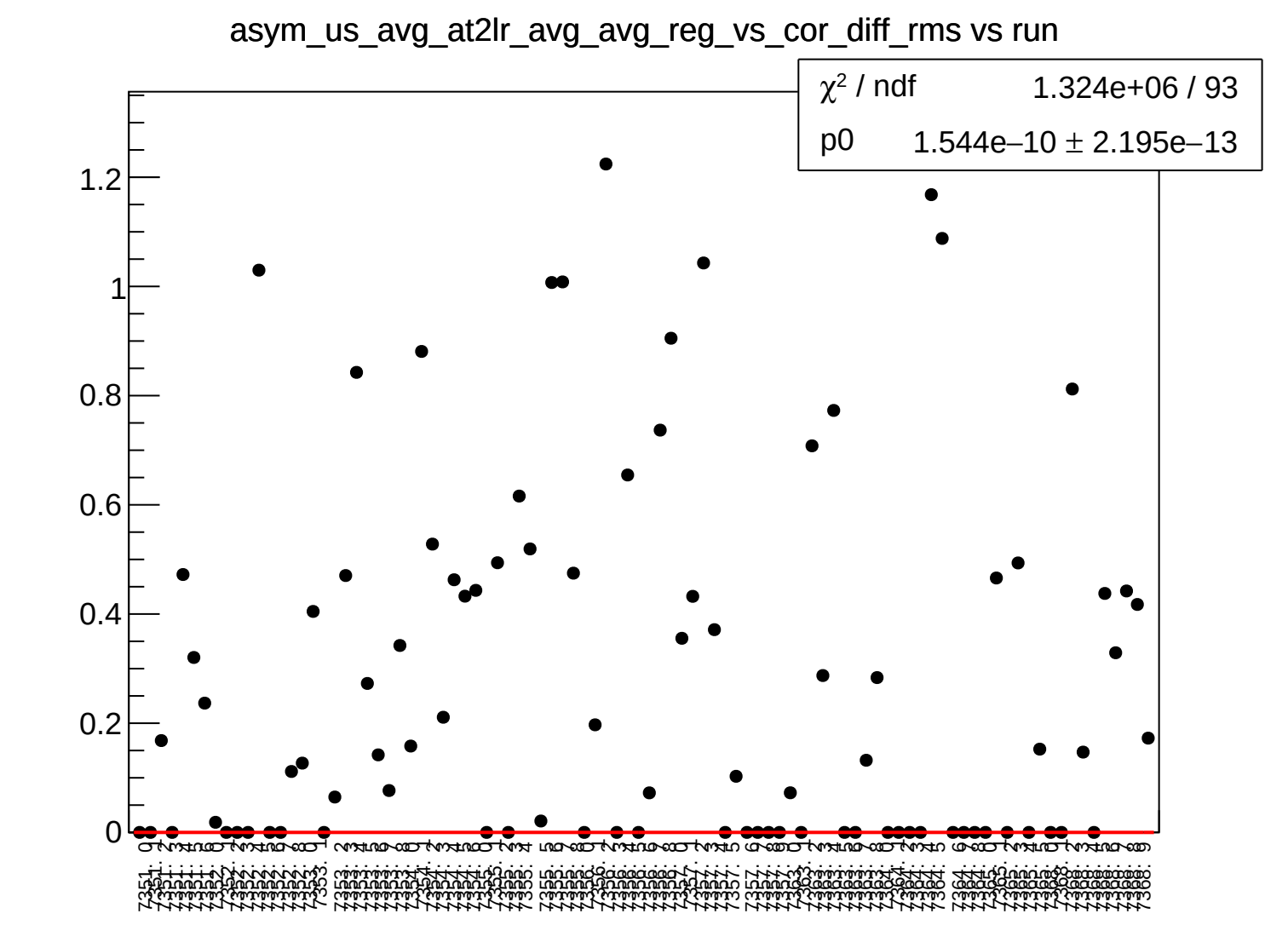

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.537e+04 / 93
p0 1.357e+04 ± 10.1
19000
18000
17000
16000
15000
14000
13000
12000

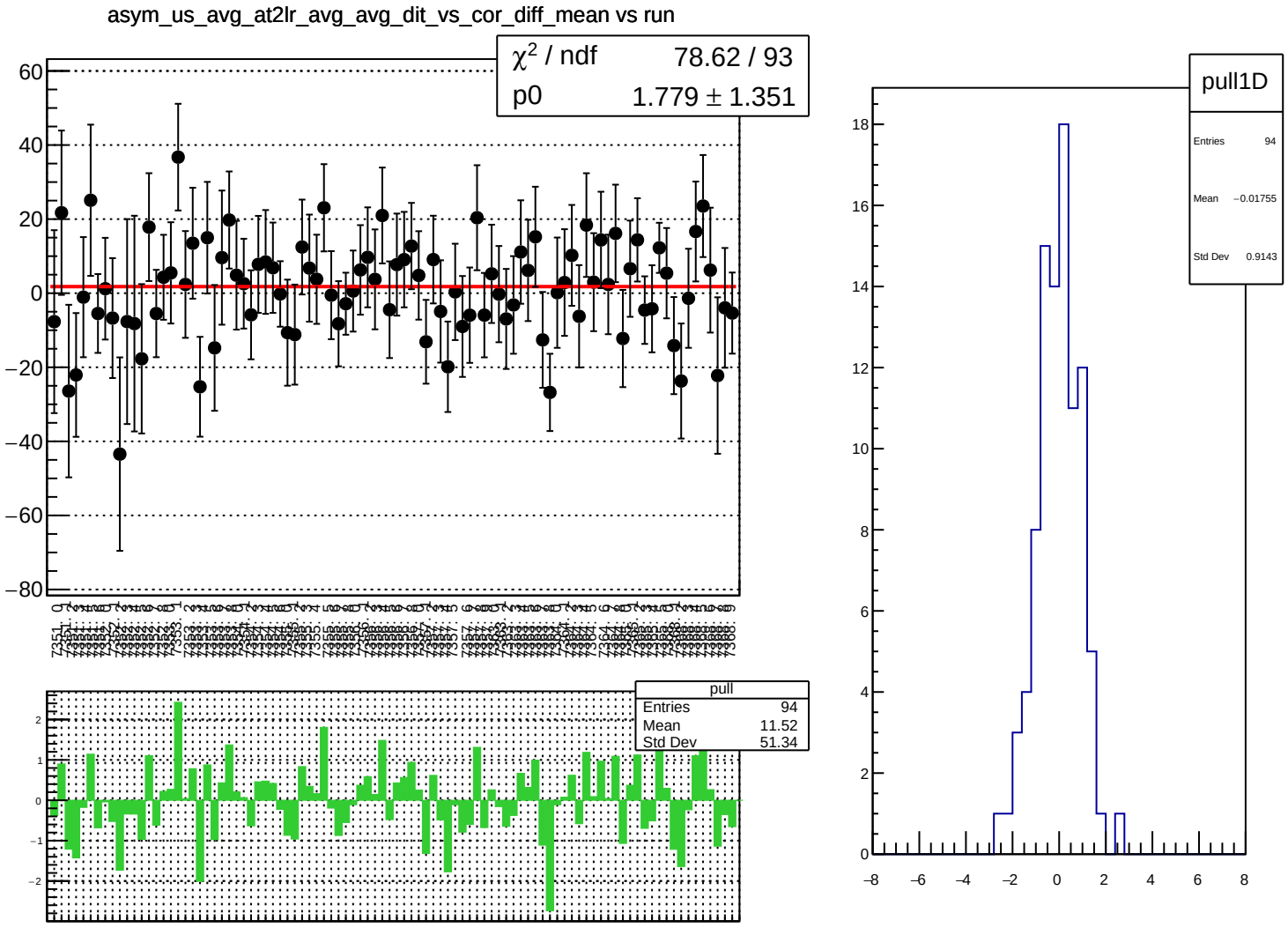

asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 74.15 / 93
p0 −1.744e+04 ± 1.355e+04
pull
Entries 94
Mean −153.6
Std Dev 0

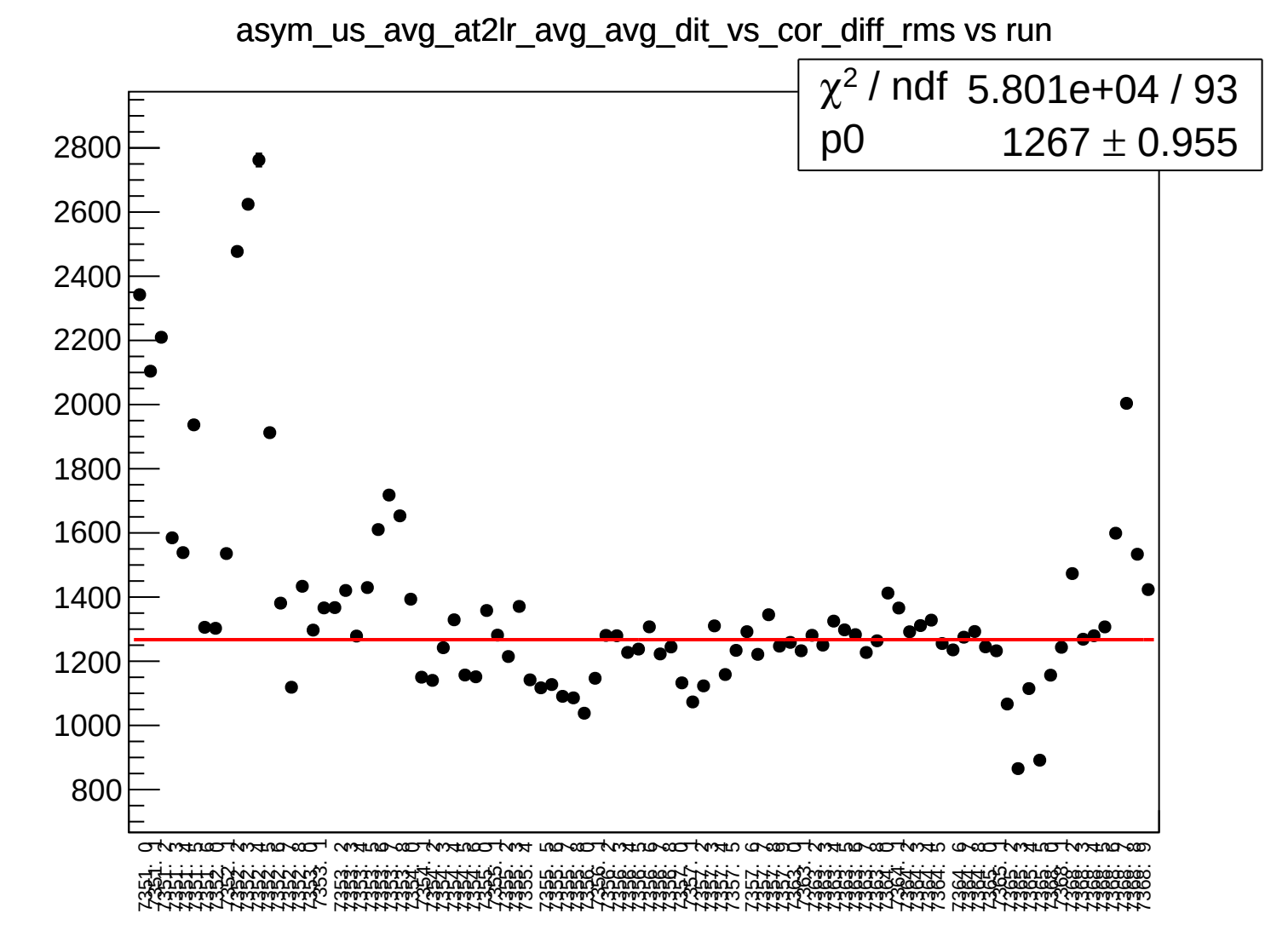

pull1D
Entries 94
Mean −0.01131
Std Dev 0.8881

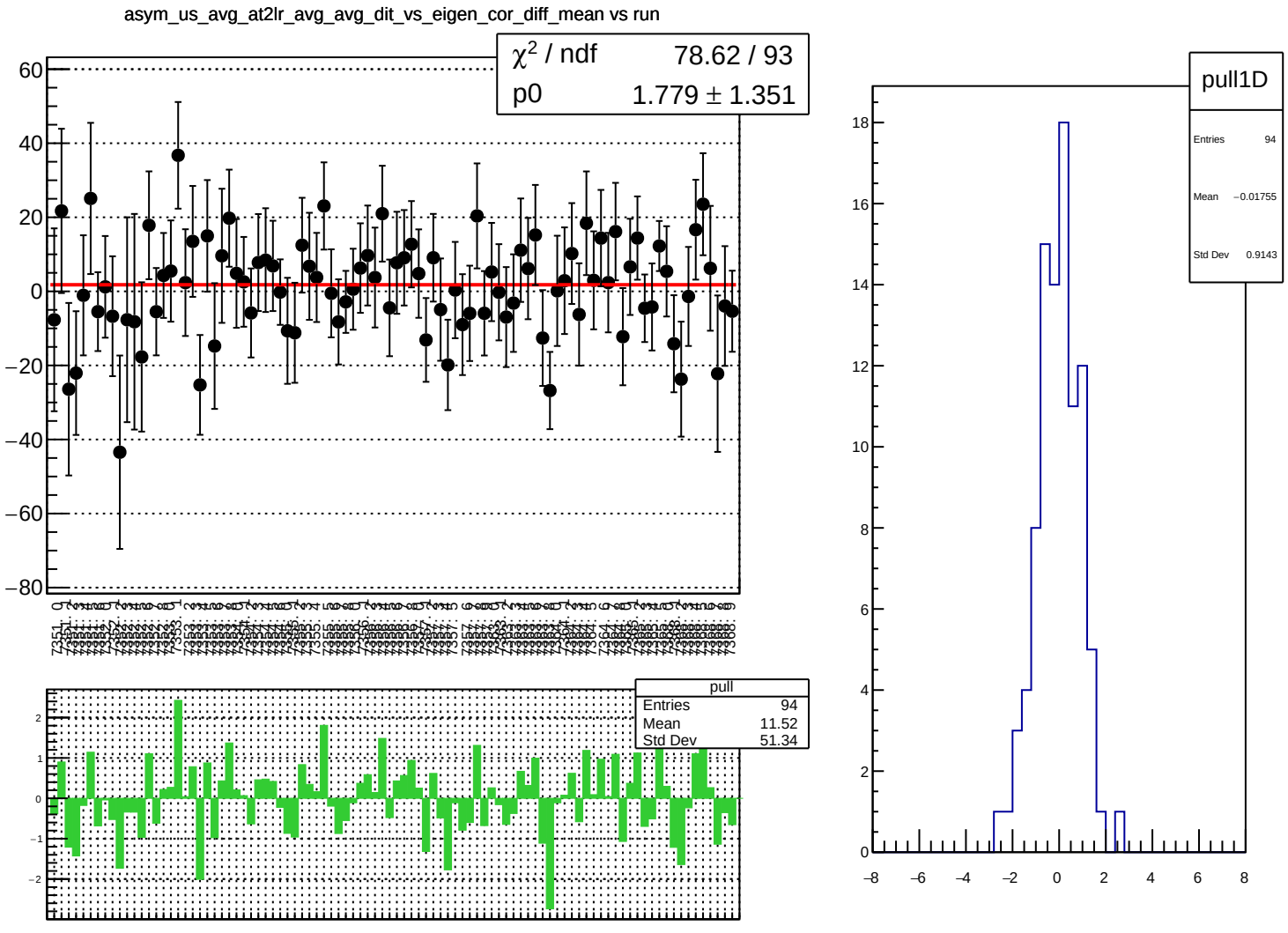

asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 1.485e+04 / 93
p0 1.287e+04 ± 9.581
18000
17000
16000
15000
14000
13000
12000
11000

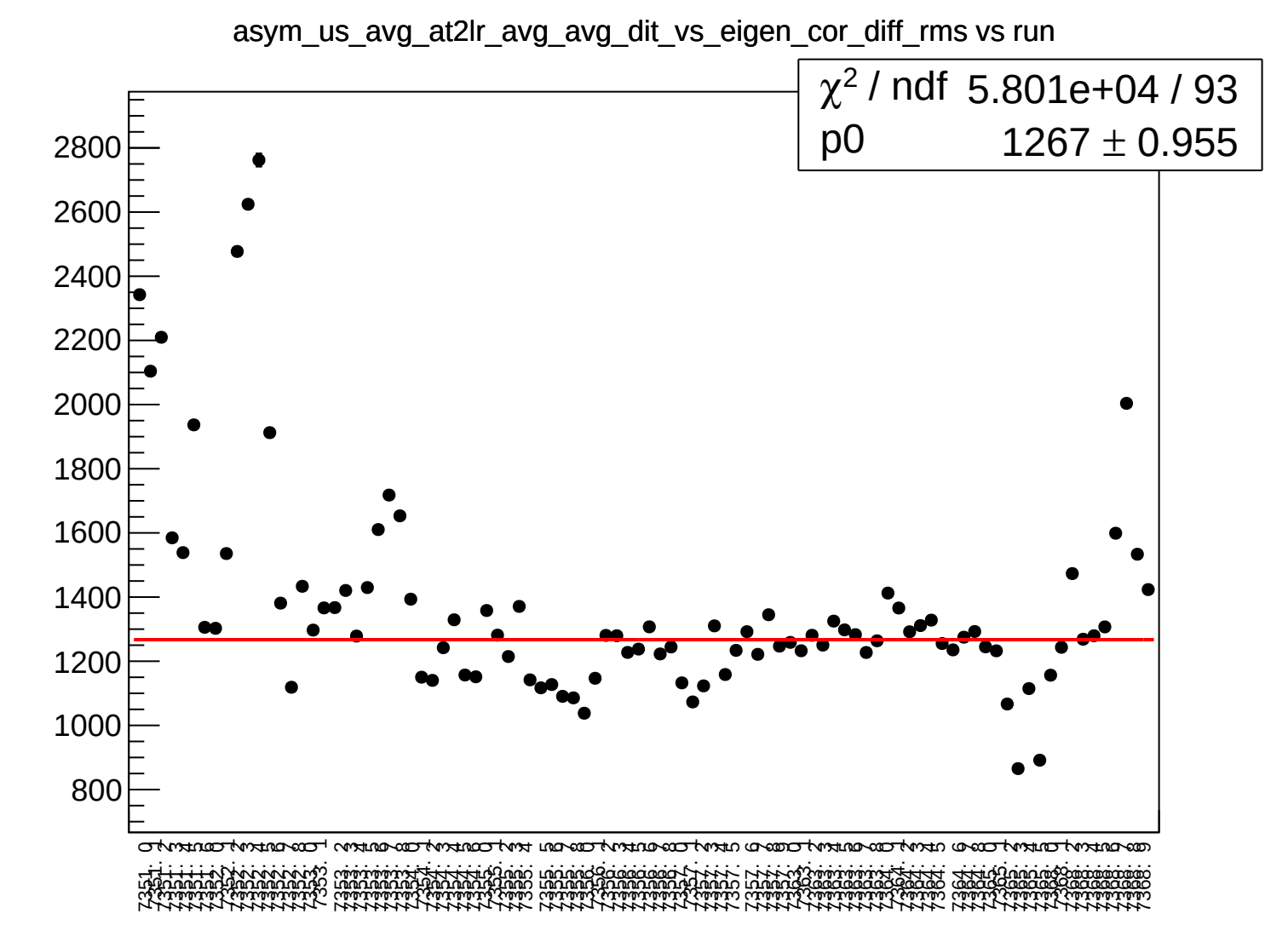

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 135.6 / 93
p0 −1.003e−13 ± 3.104e−13
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 94
Mean 41.67
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.07705
Std Dev 1.199
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

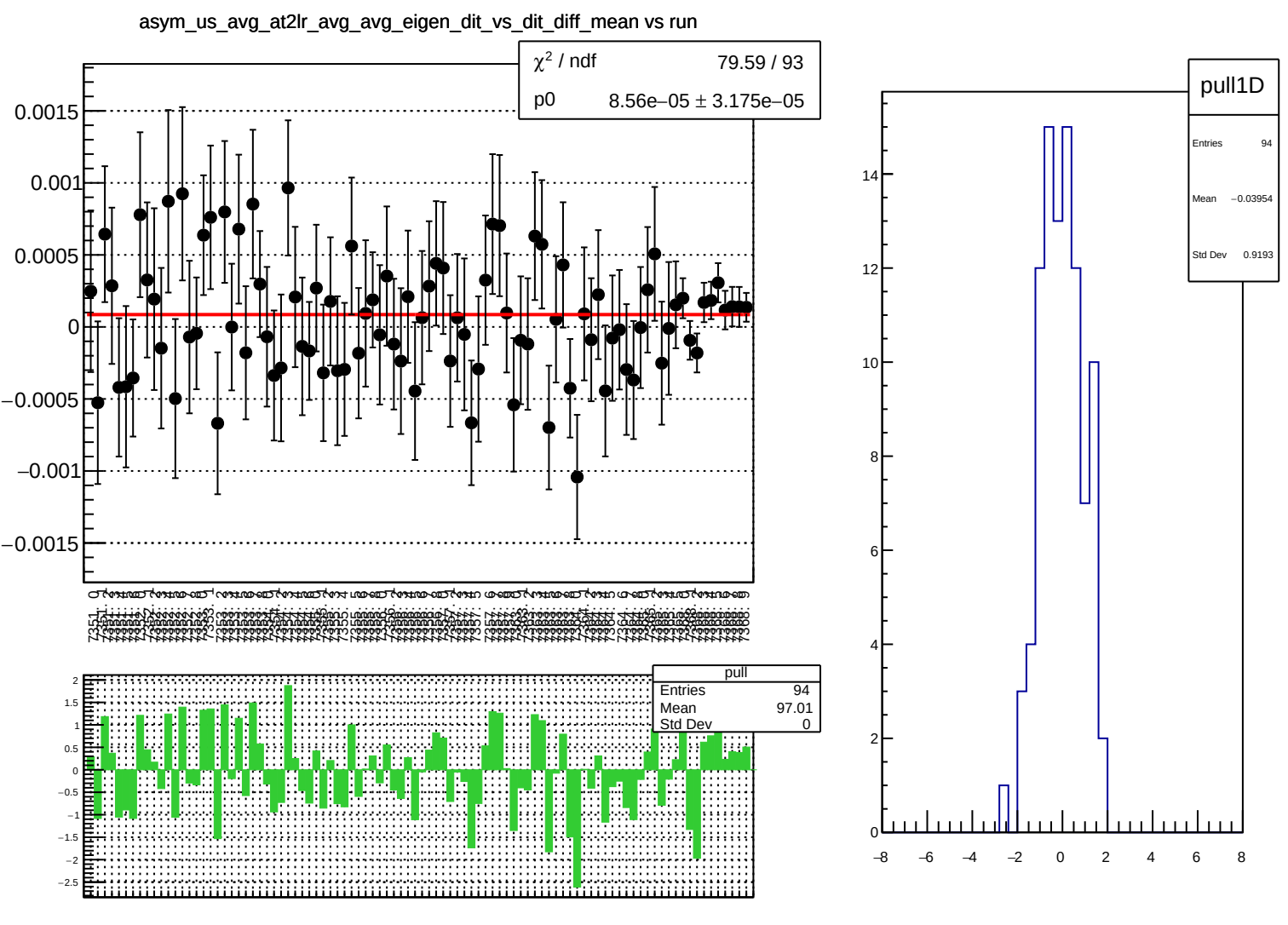

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.324e+06 / 93
p0 1.544e−10 ± 2.195e−13
1.2
1
0.8
0.6
0.4
0.2
0

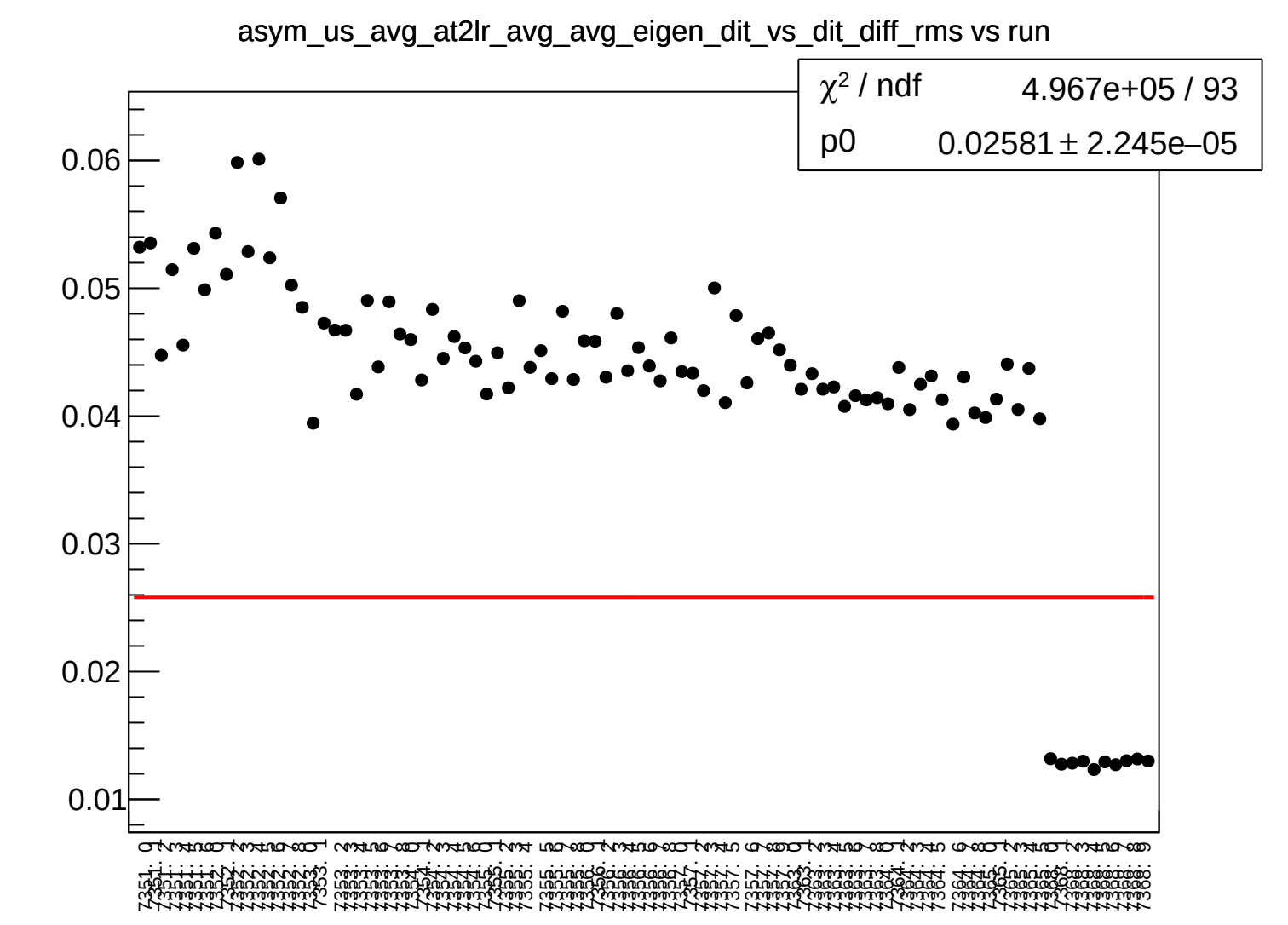

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 78.62 / 93
p0 1.779 ± 1.351
pull
Entries 94
Mean 11.52
Std Dev 51.34
pull1D
Entries 94
Mean −0.01755
Std Dev 0.9143

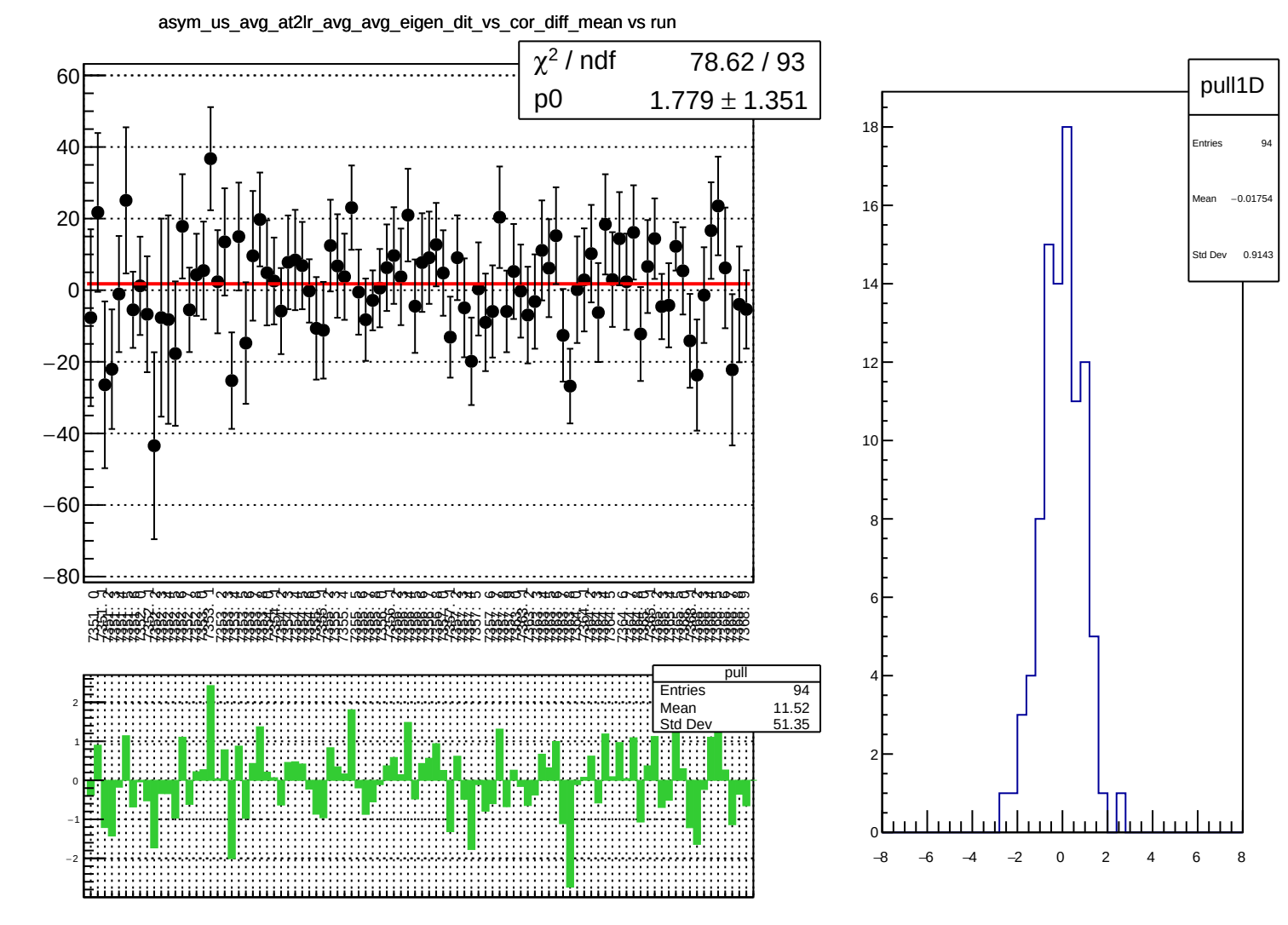

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.801e+04 / 93
p0 1267 ± 0.955
2800
2600
2400
2200
2000
1800
1600
1400
1200
1000
800

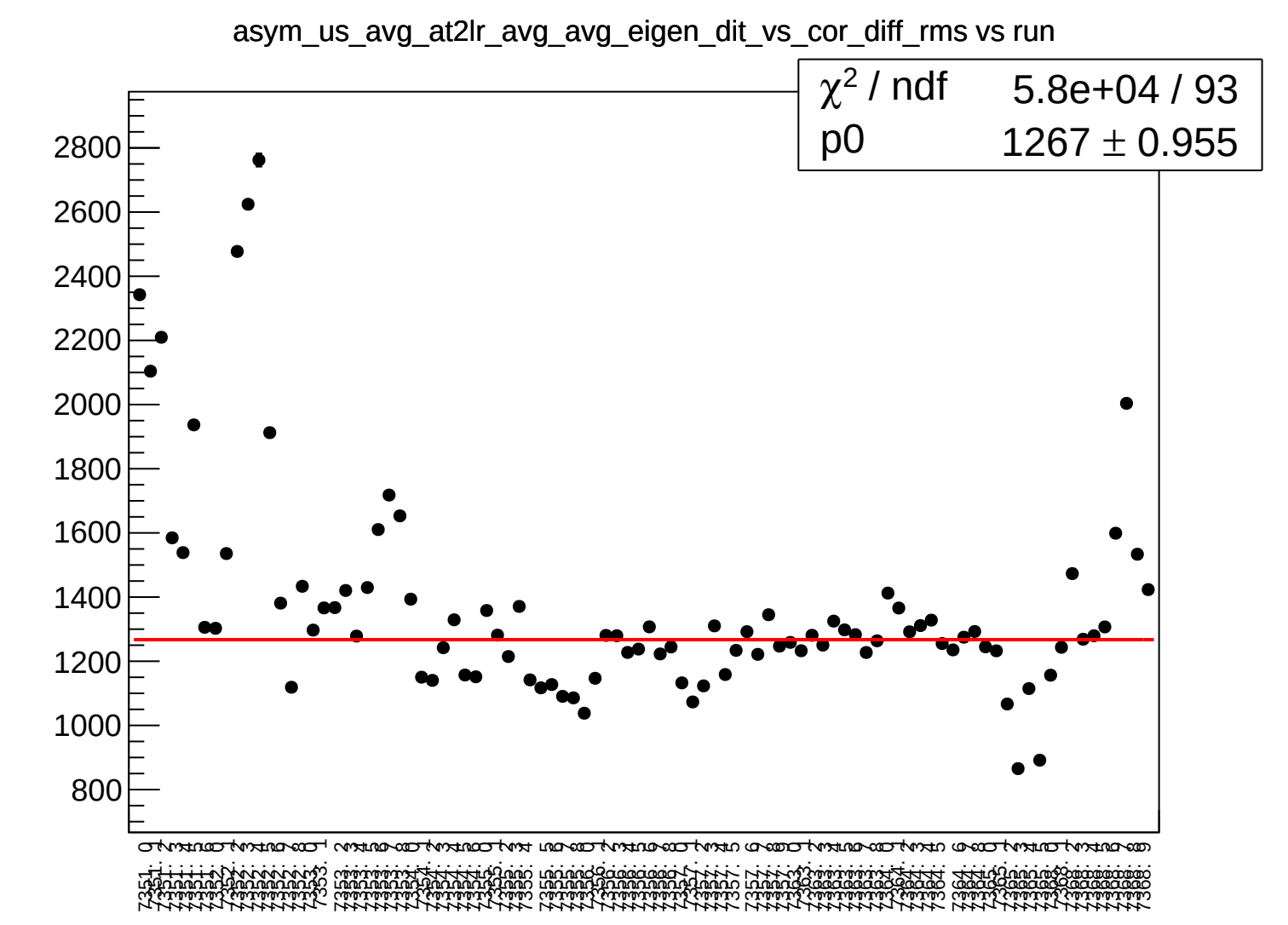

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.62 / 93
p0 1.779 ± 1.351
pull
Entries 94
Mean 11.52
Std Dev 51.34
pull1D
Entries 94
Mean −0.01755
Std Dev 0.9143

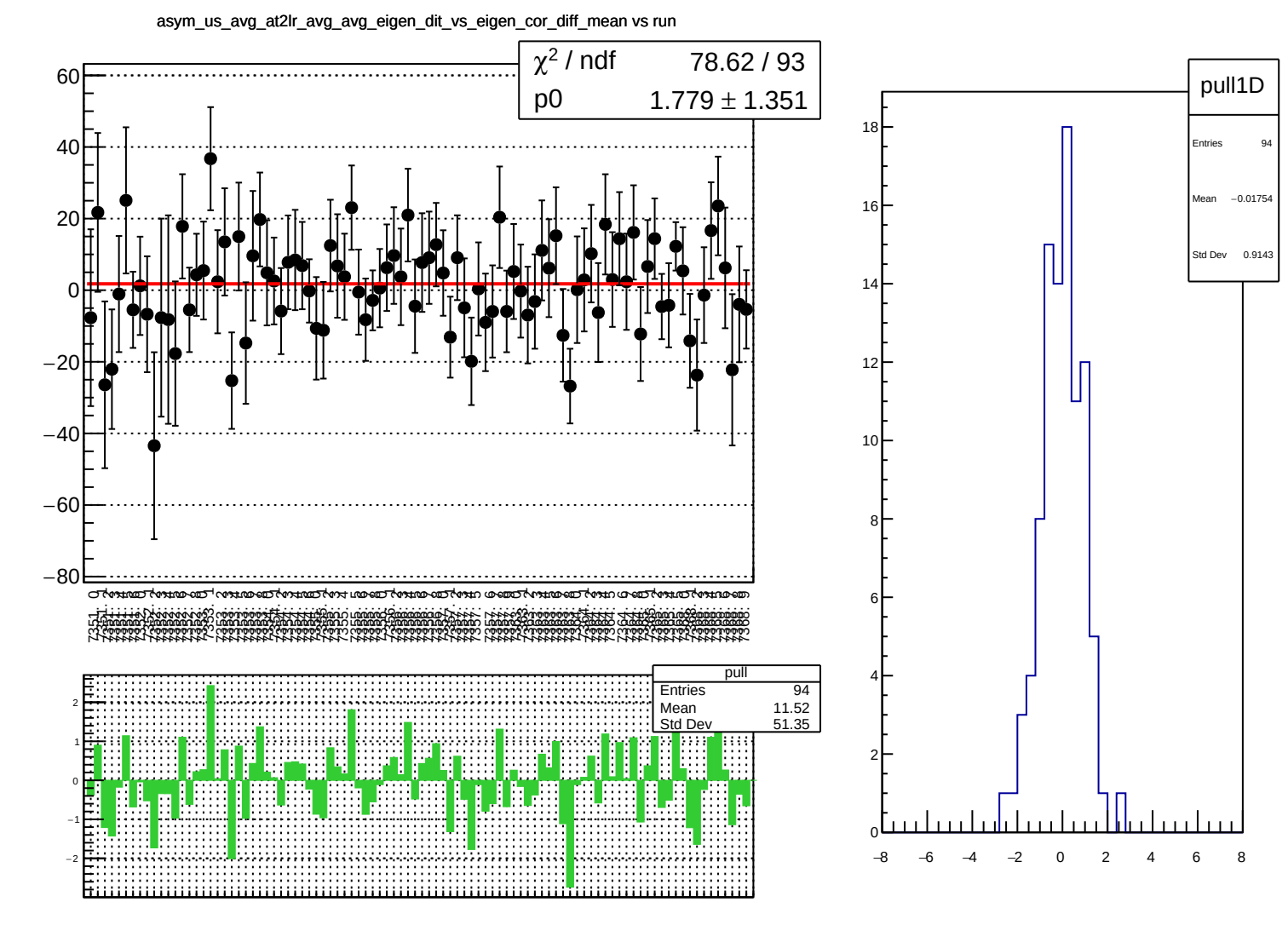

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.801e+04 / 93
p0 1267 ± 0.955
2800
2600
2400
2200
2000
1800
1600
1400
1200
1000
800

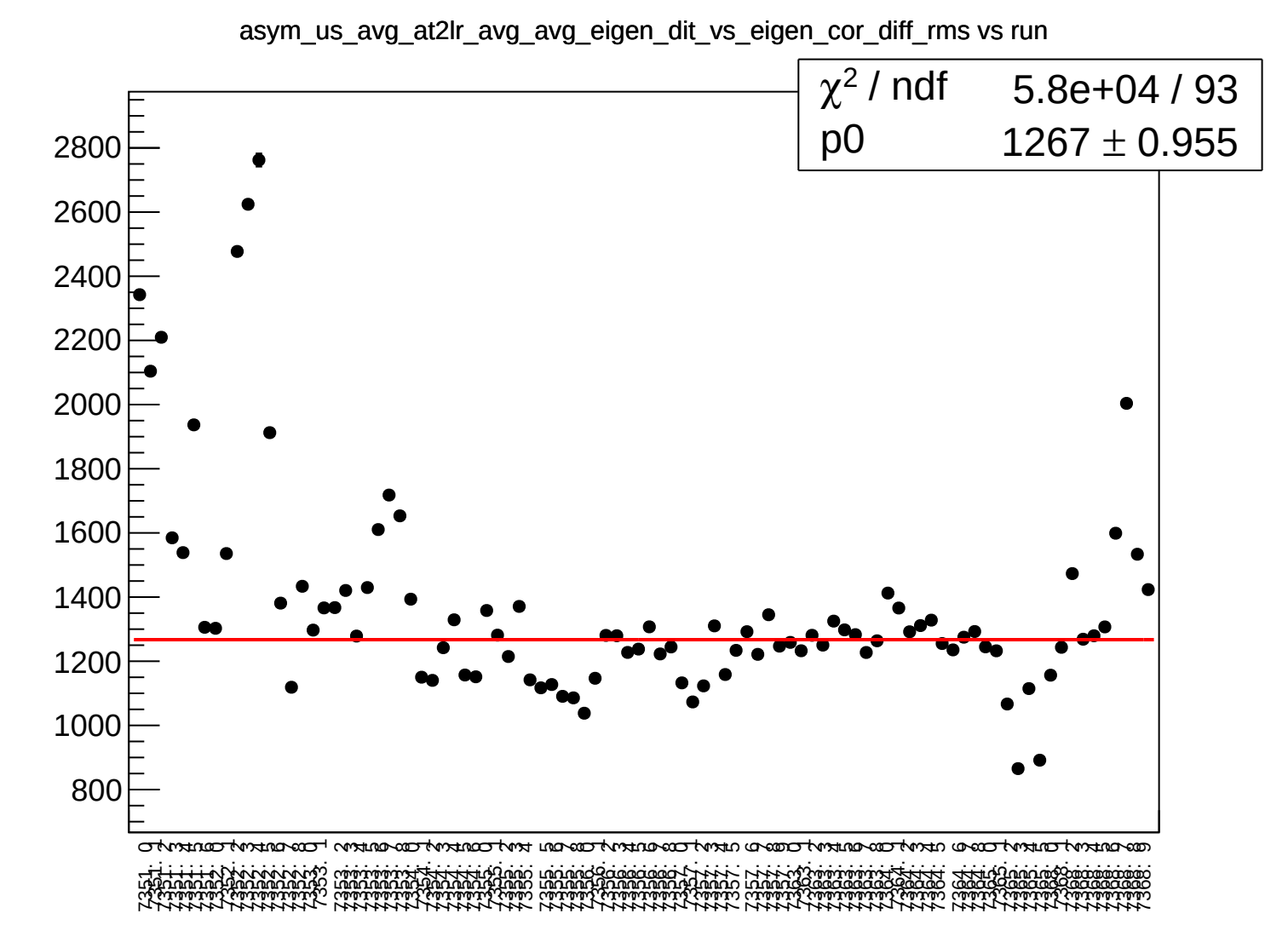

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 79.59 / 93
p0 8.56e−05 ± 3.175e−05
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 94
Mean 97.01
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 94
Mean −0.03954
Std Dev 0.9193
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

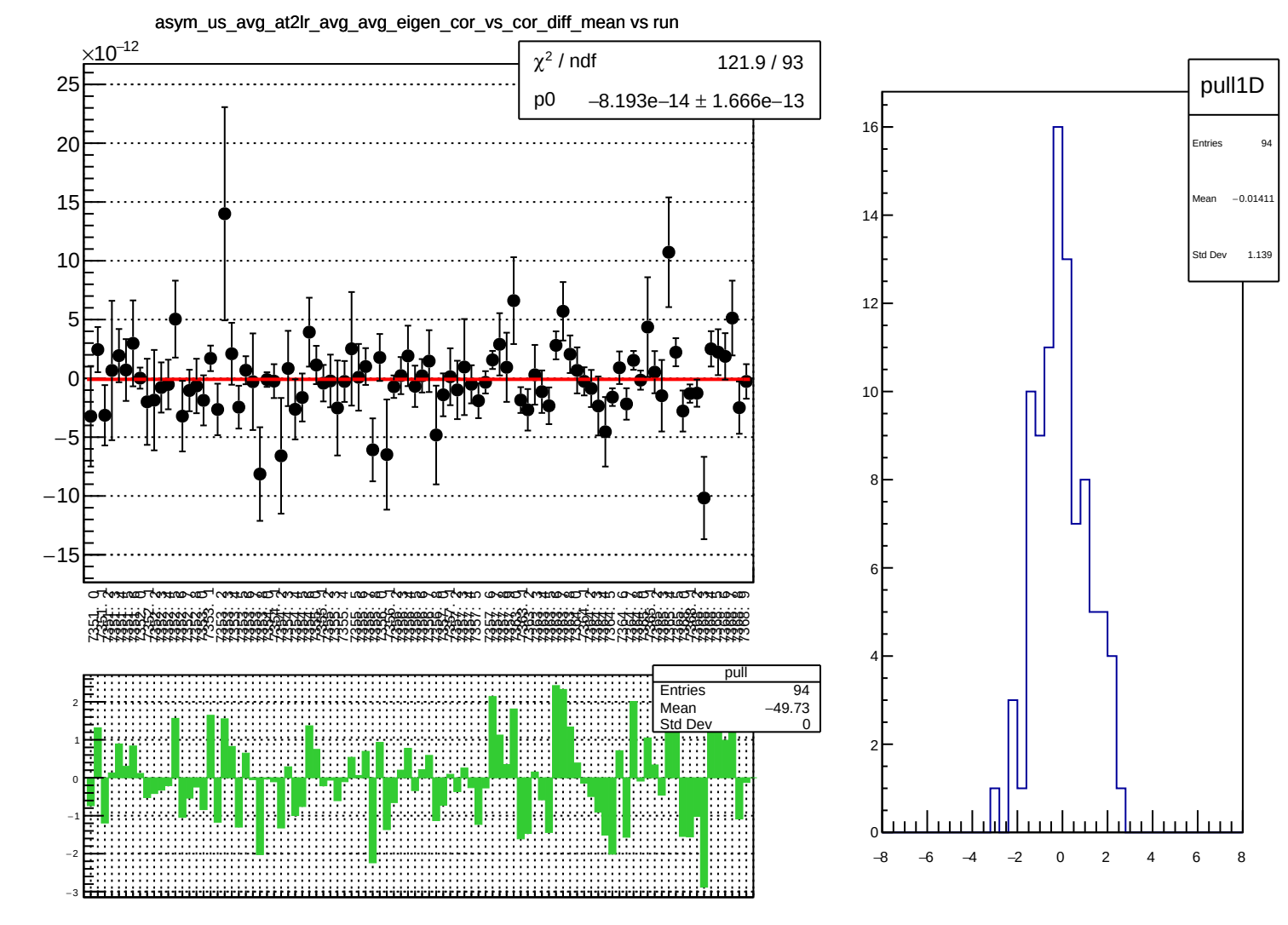

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.967e+05 / 93
p0 0.02581 ± 2.245e−05
0.06
0.05
0.04
0.03
0.02
0.01

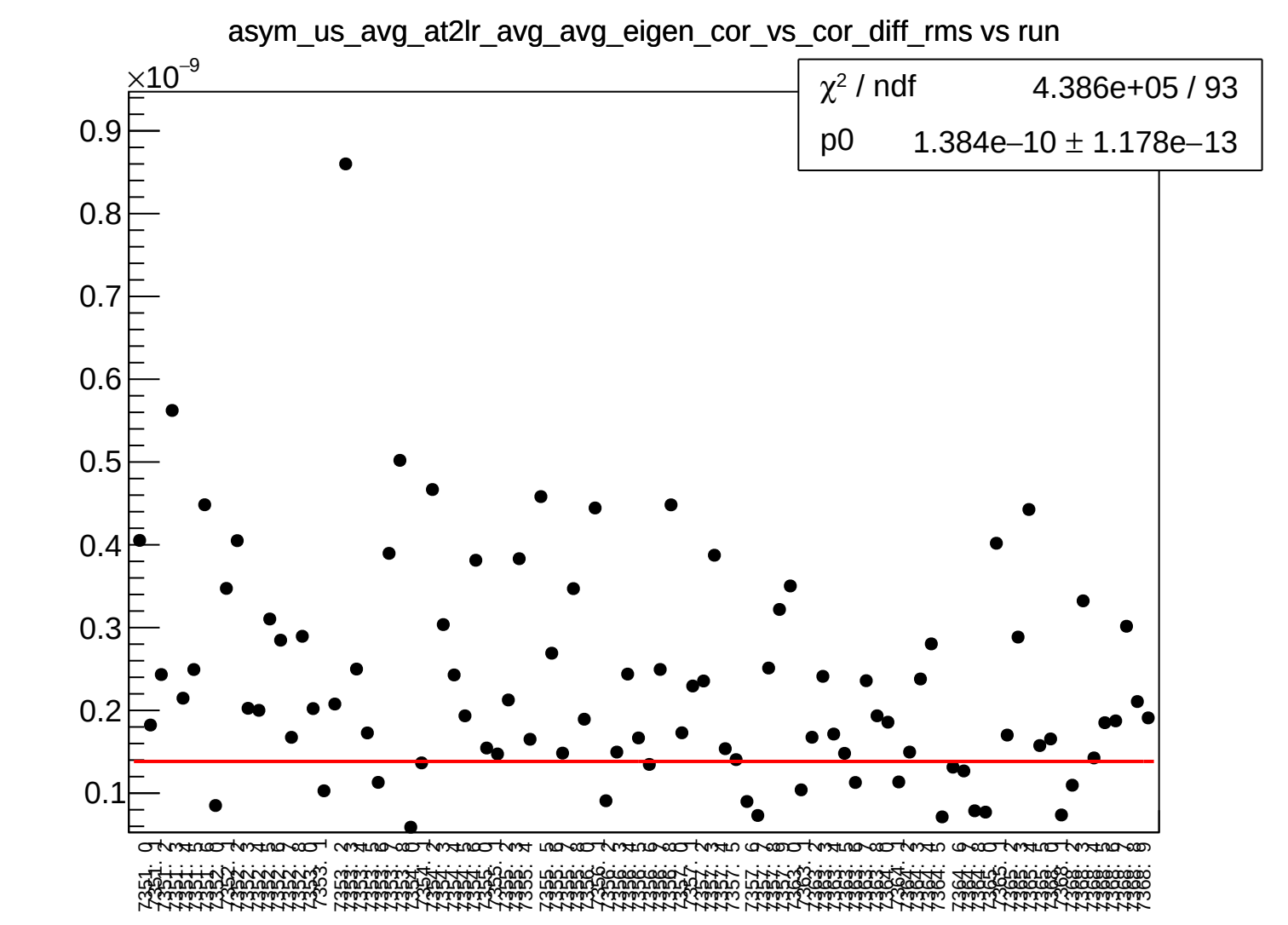

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.62 / 93
p0 1.779 ± 1.351
pull
Entries 94
Mean 11.52
Std Dev 51.35
pull1D
Entries 94
Mean −0.01754
Std Dev 0.9143

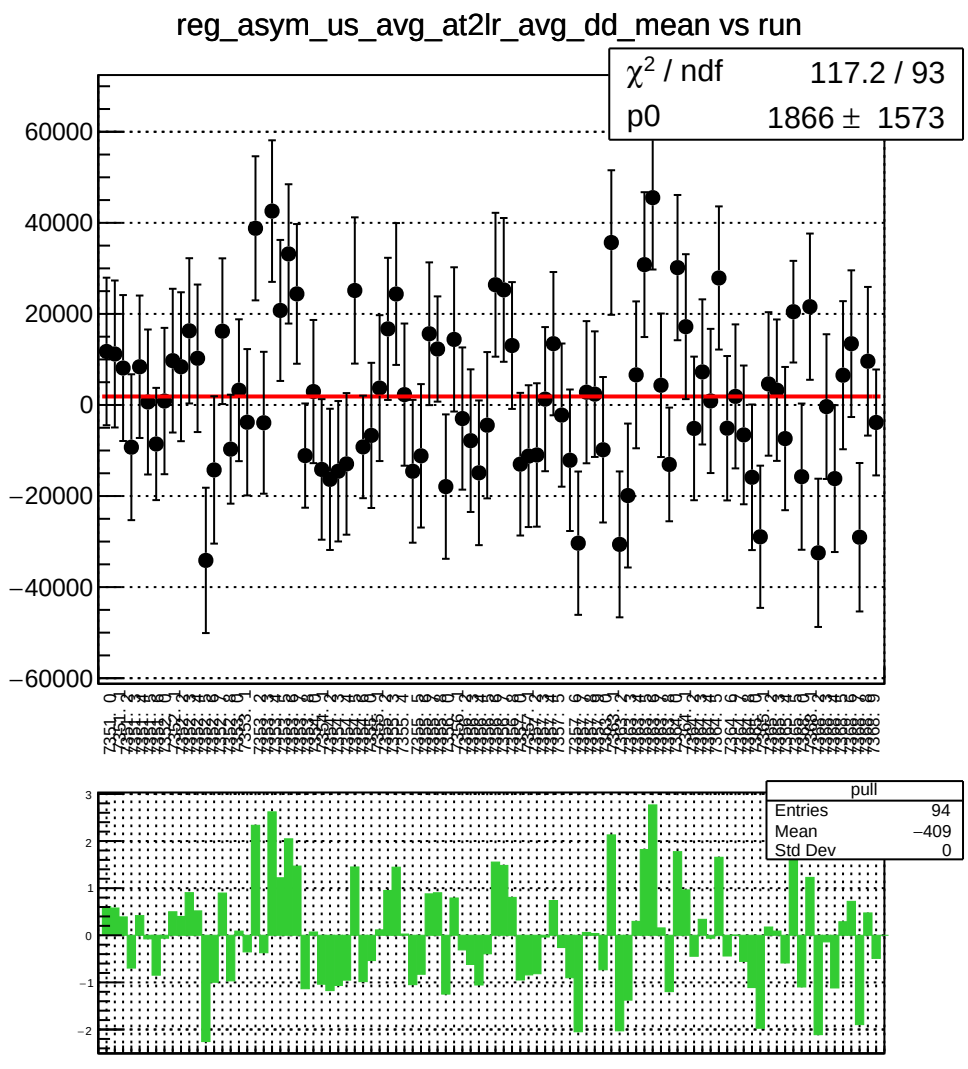

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.8e+04 / 93
p0 1267 ± 0.955
2800
2600
2400
2200
2000
1800
1600
1400
1200
1000
800

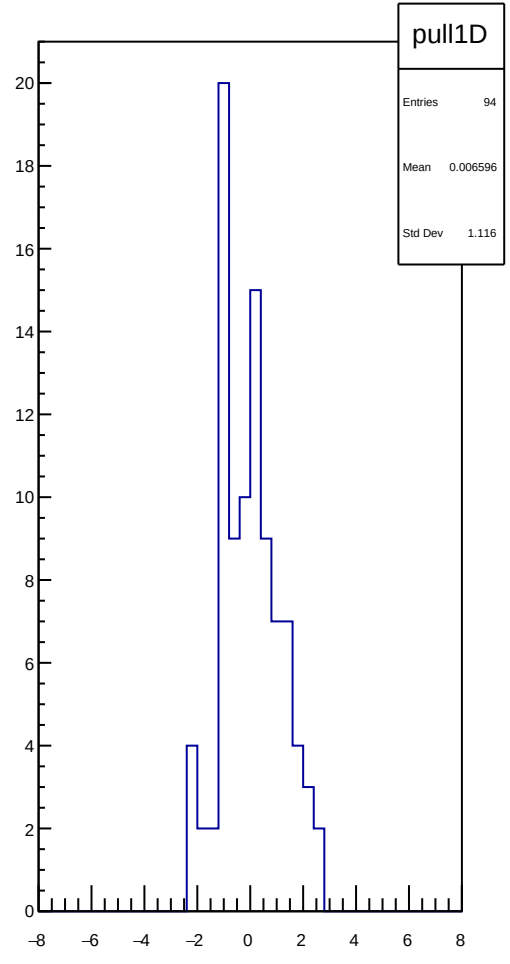

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.62 / 93
p0 1.779 ± 1.351
pull
Entries 94
Mean 11.52
Std Dev 51.35
pull1D
Entries 94
Mean −0.01754
Std Dev 0.9143

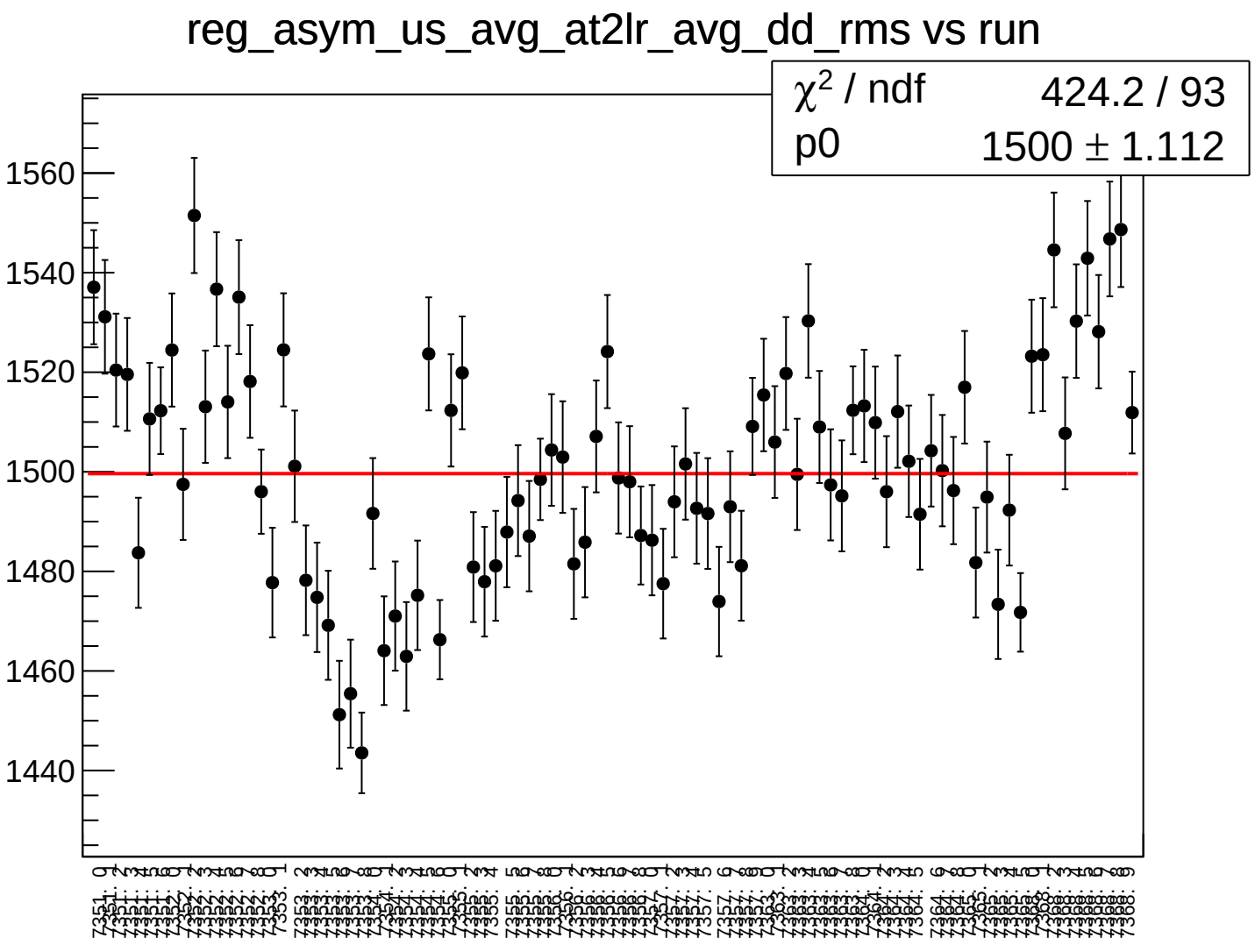

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.8e+04 / 93
p0 1267 ± 0.955
2800
2600
2400
2200
2000
1800
1600
1400
1200
1000
800

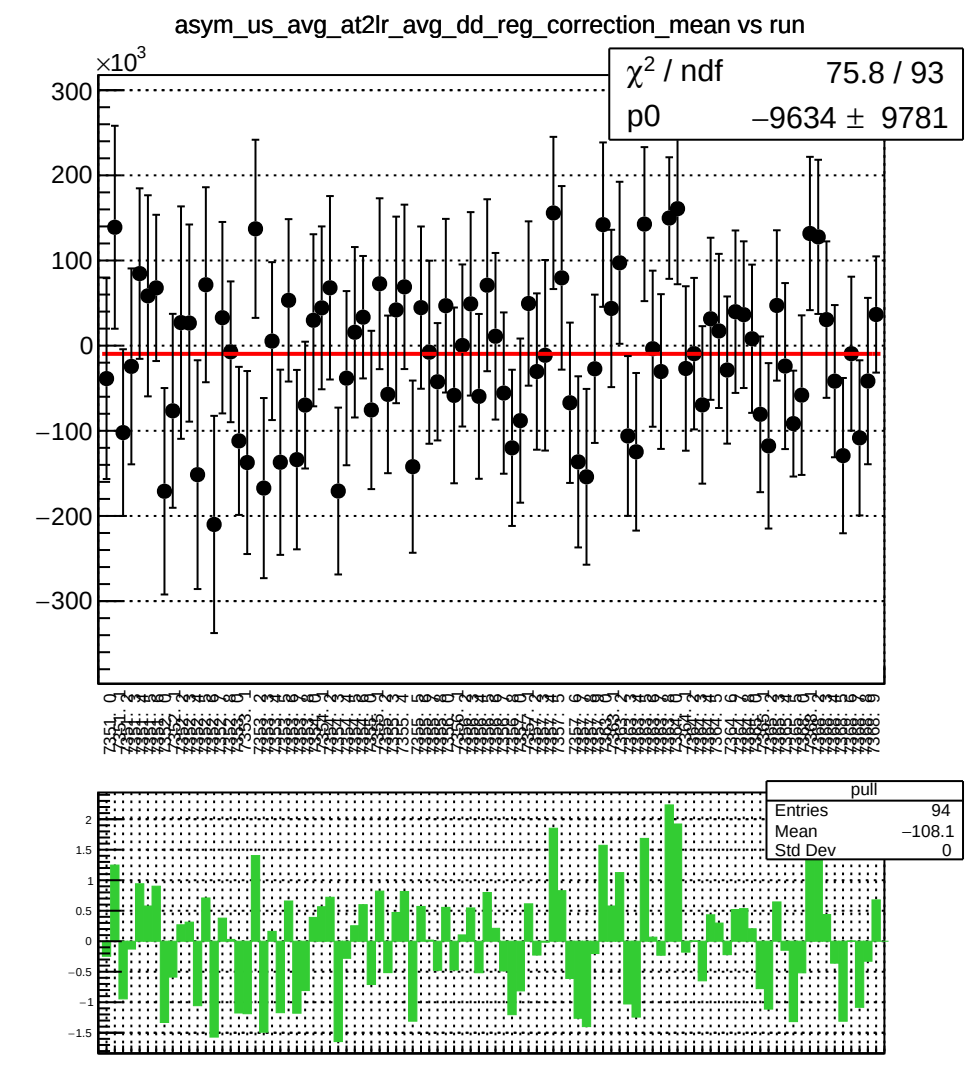

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 121.9 / 93
p0 −8.193e−14 ± 1.666e−13
pull
Entries 94
Mean −49.73
Std Dev 0
pull1D
Entries 94
Mean −0.01411
Std Dev 1.139

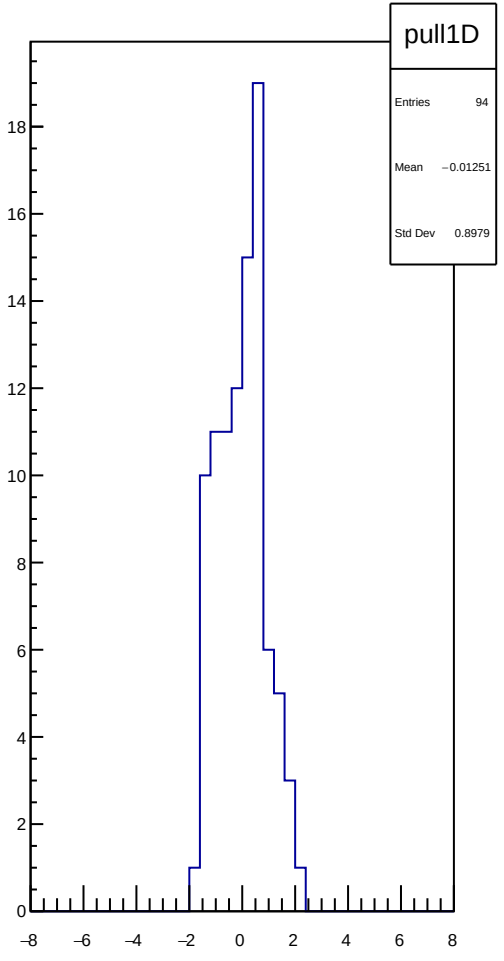

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.386e+05 / 93
p0 1.384e−10 ± 1.178e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

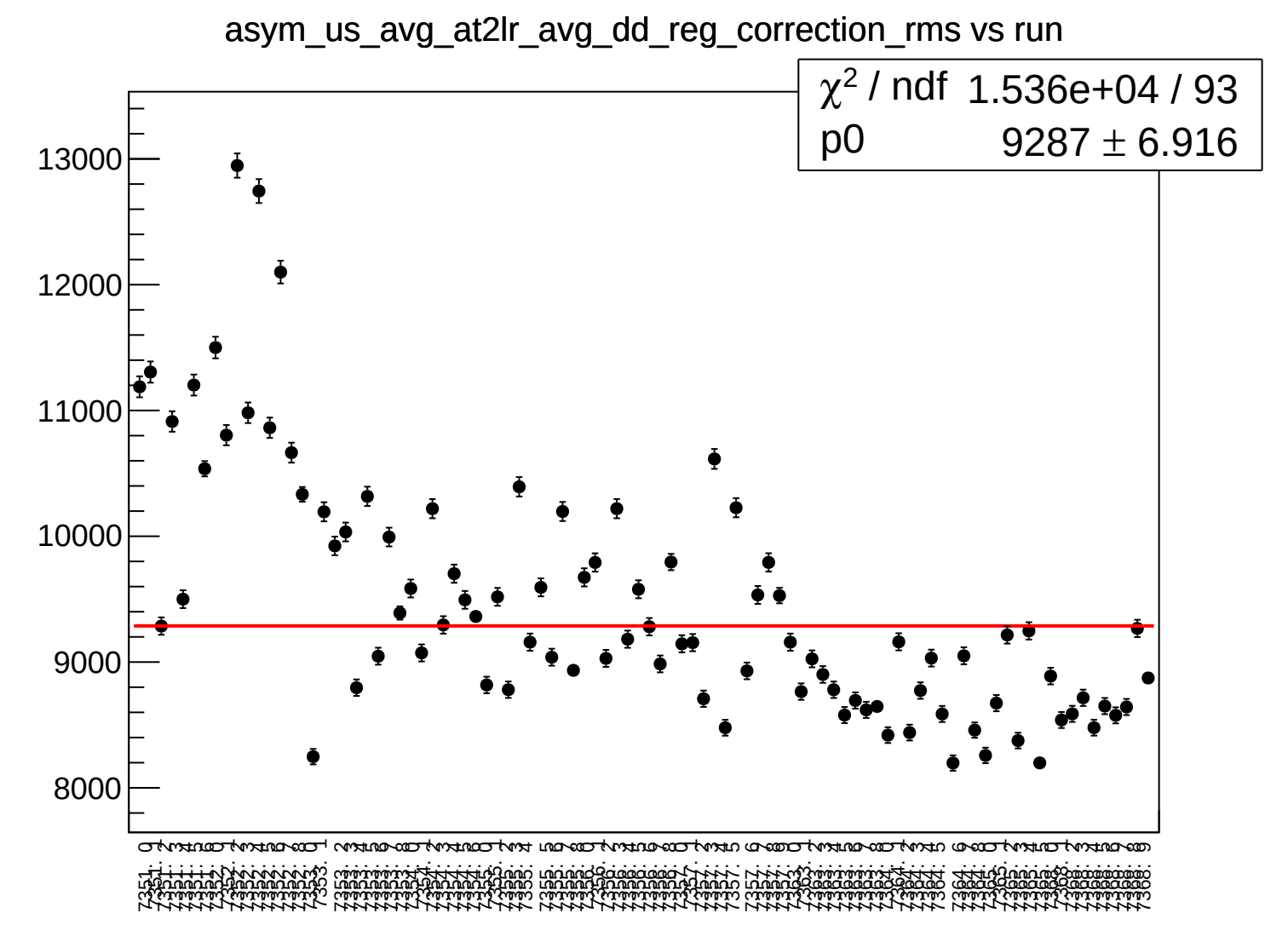

reg_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 117.2 / 93
p0 1866 ± 1573
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −409
Std Dev 0
3
2
1
0
−1
−2

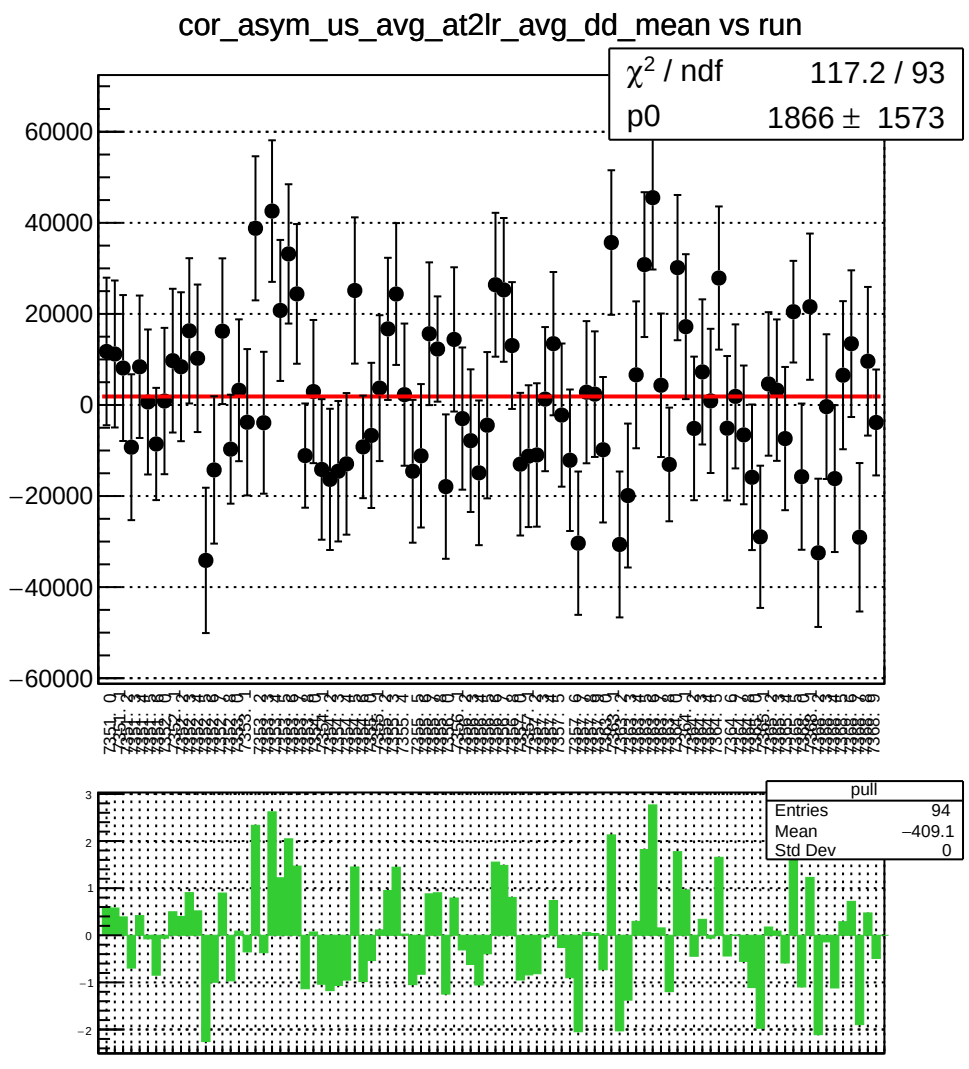

pull1D
Entries 94
Mean 0.006596
Std Dev 1.116
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

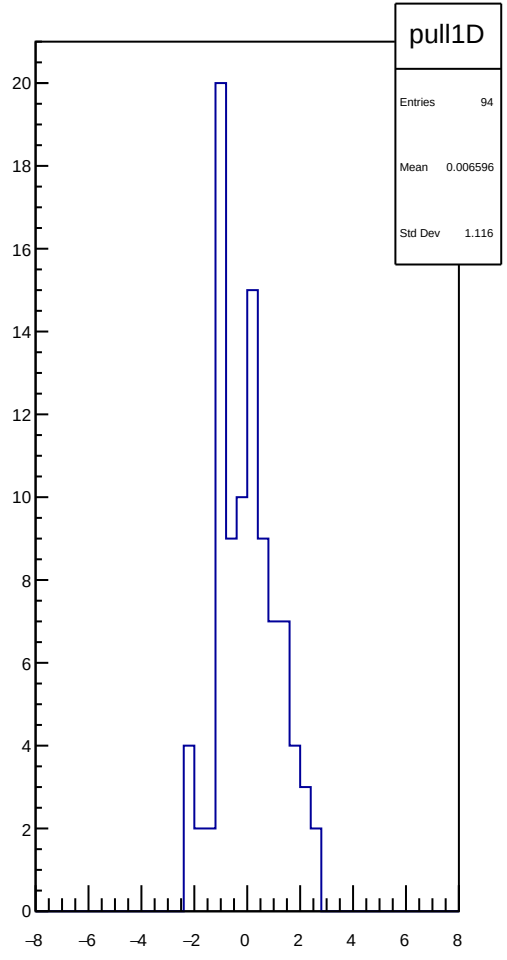

reg_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 424.2 / 93
p0 1500 ± 1.112
1560
1540
1520
1500
1480
1460
1440

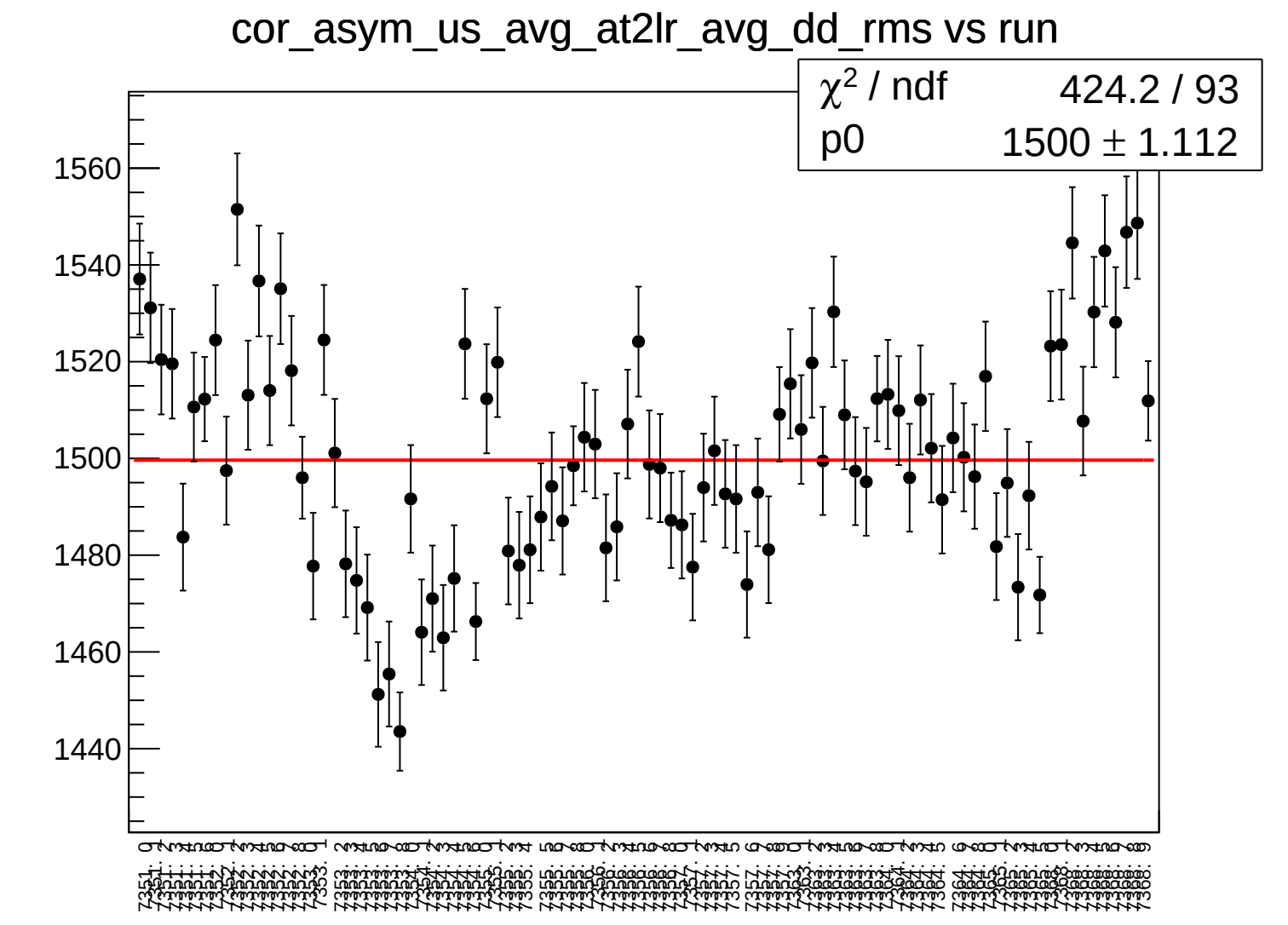

asym_us_avg_at2lr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 75.8 / 93
p0 −9634 ± 9781
300
200
100
0
−100
−200
−300
pull
Entries 94
Mean −108.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

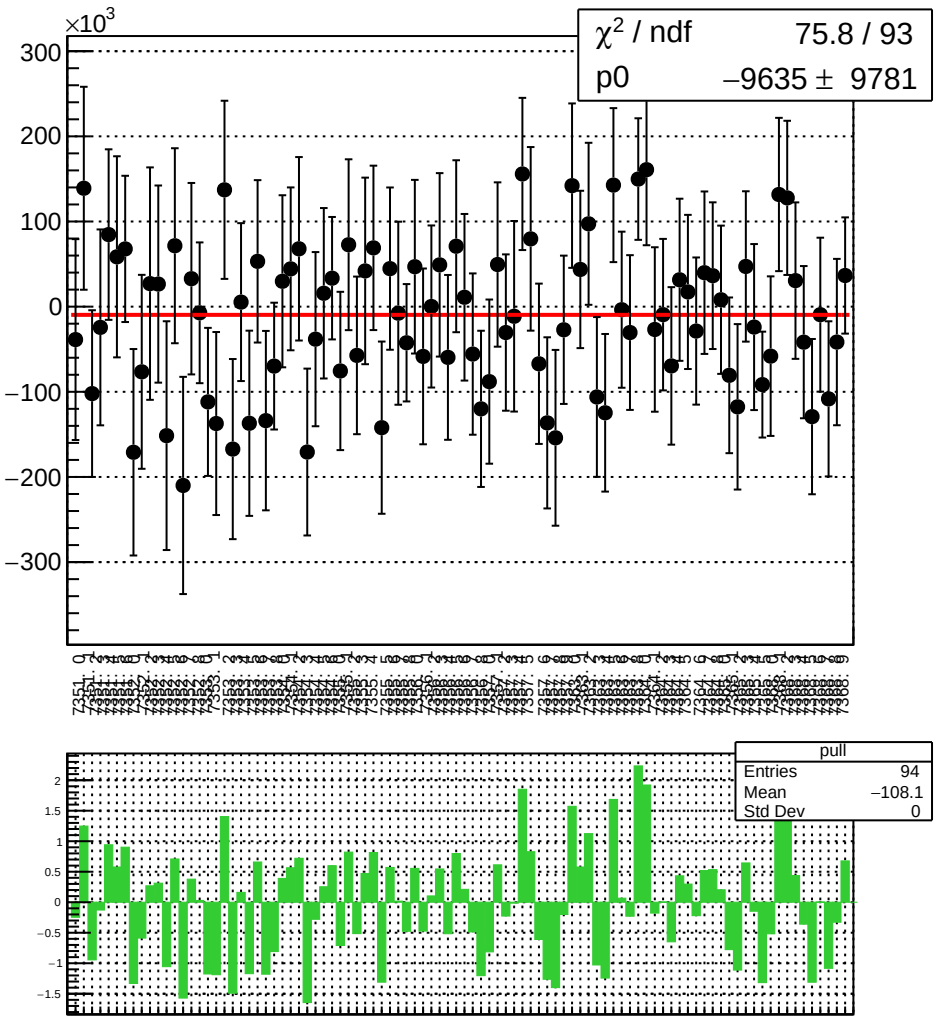

pull1D
Entries 94
Mean −0.01251
Std Dev 0.8979
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

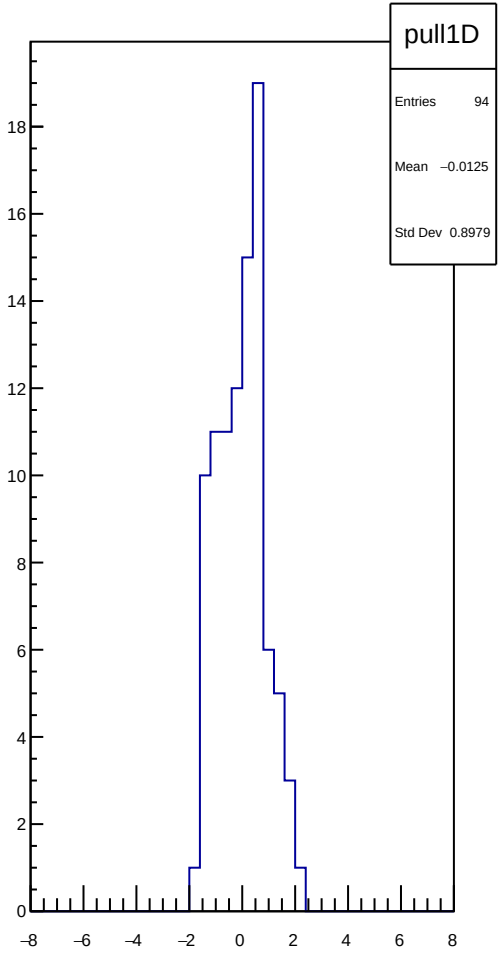

asym_us_avg_at2lr_avg_dd_reg_correction_rms vs run
χ² / ndf 1.536e+04 / 93
p0 9287 ± 6.916
13000
12000
11000
10000
9000
8000

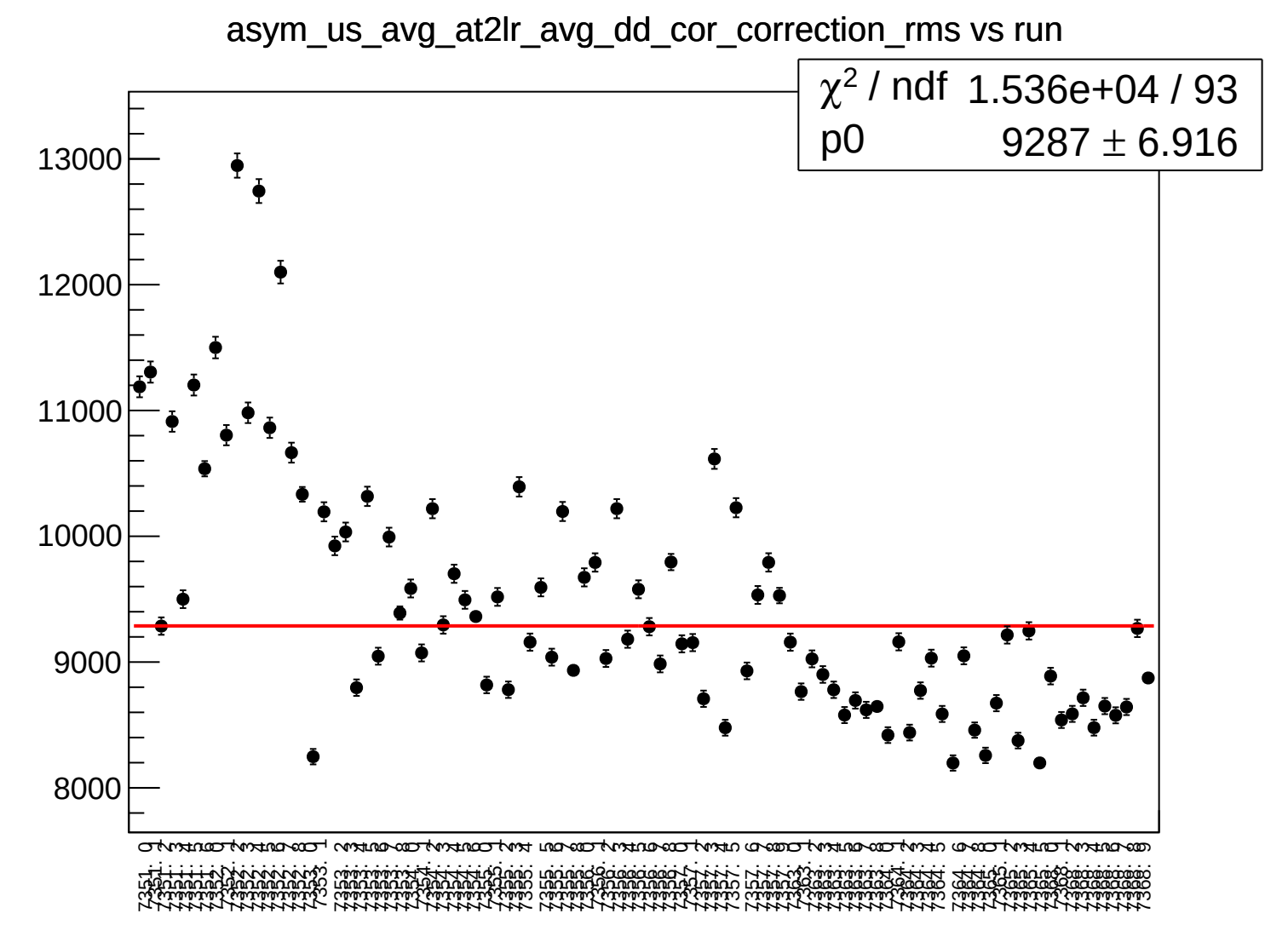

cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 117.2 / 93
p0 1866 ± 1573
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −409.1
Std Dev 0
3
2
1
0
−1
−2

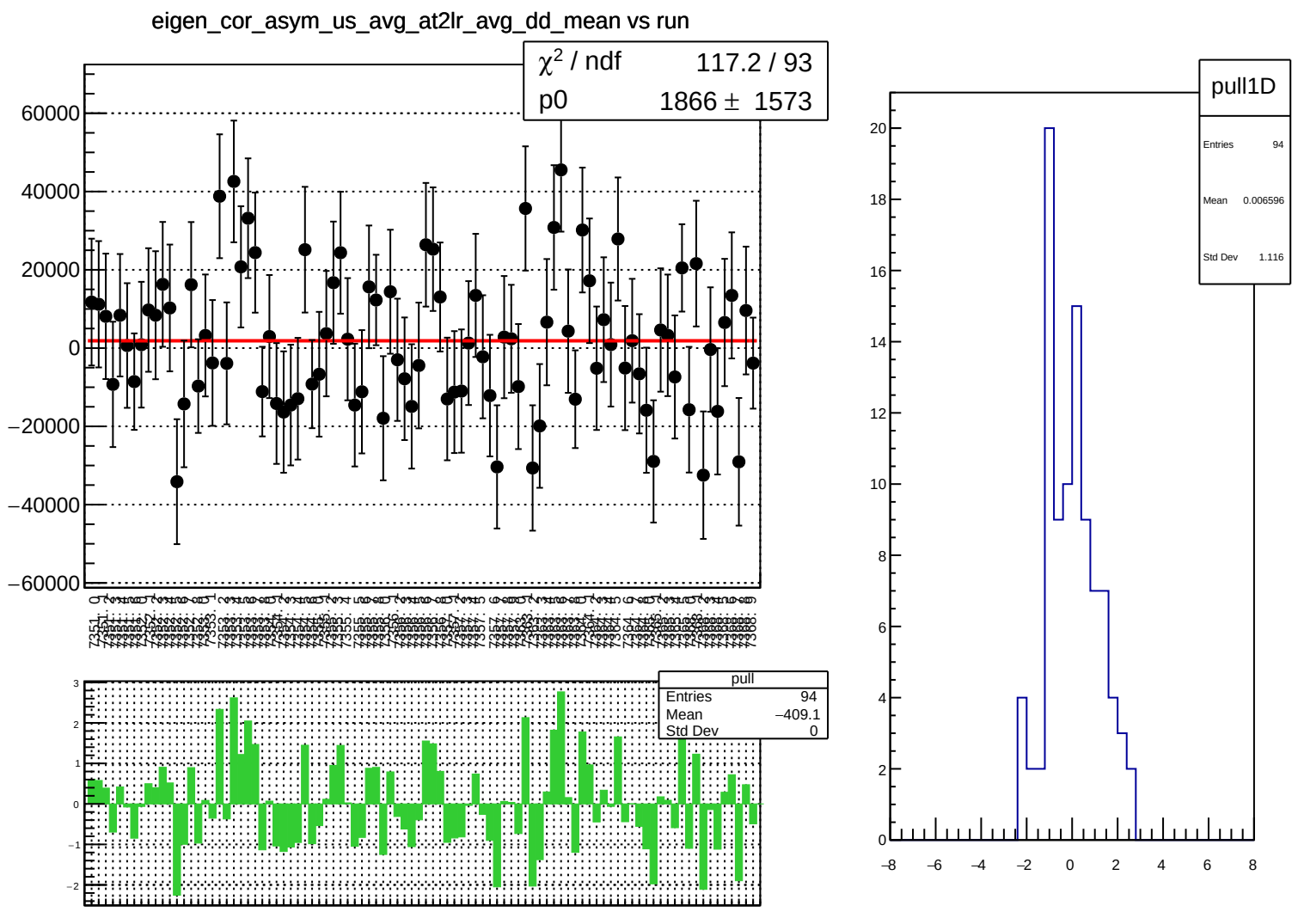

pull1D
Entries 94
Mean 0.006596
Std Dev 1.116
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

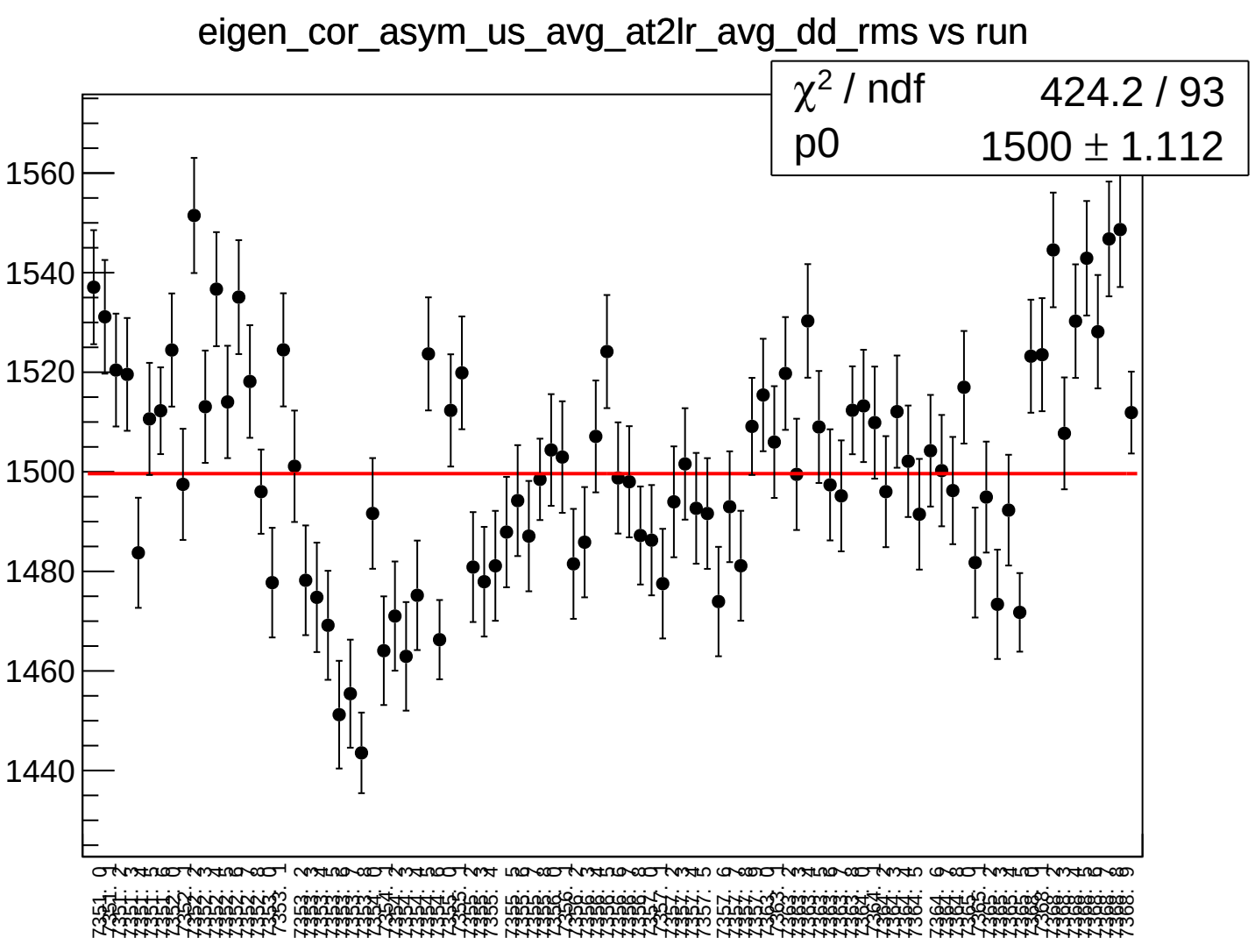

cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ^2 / ndf 424.2 / 93
p0 1500 ± 1.112
1560
1540
1520
1500
1480
1460
1440

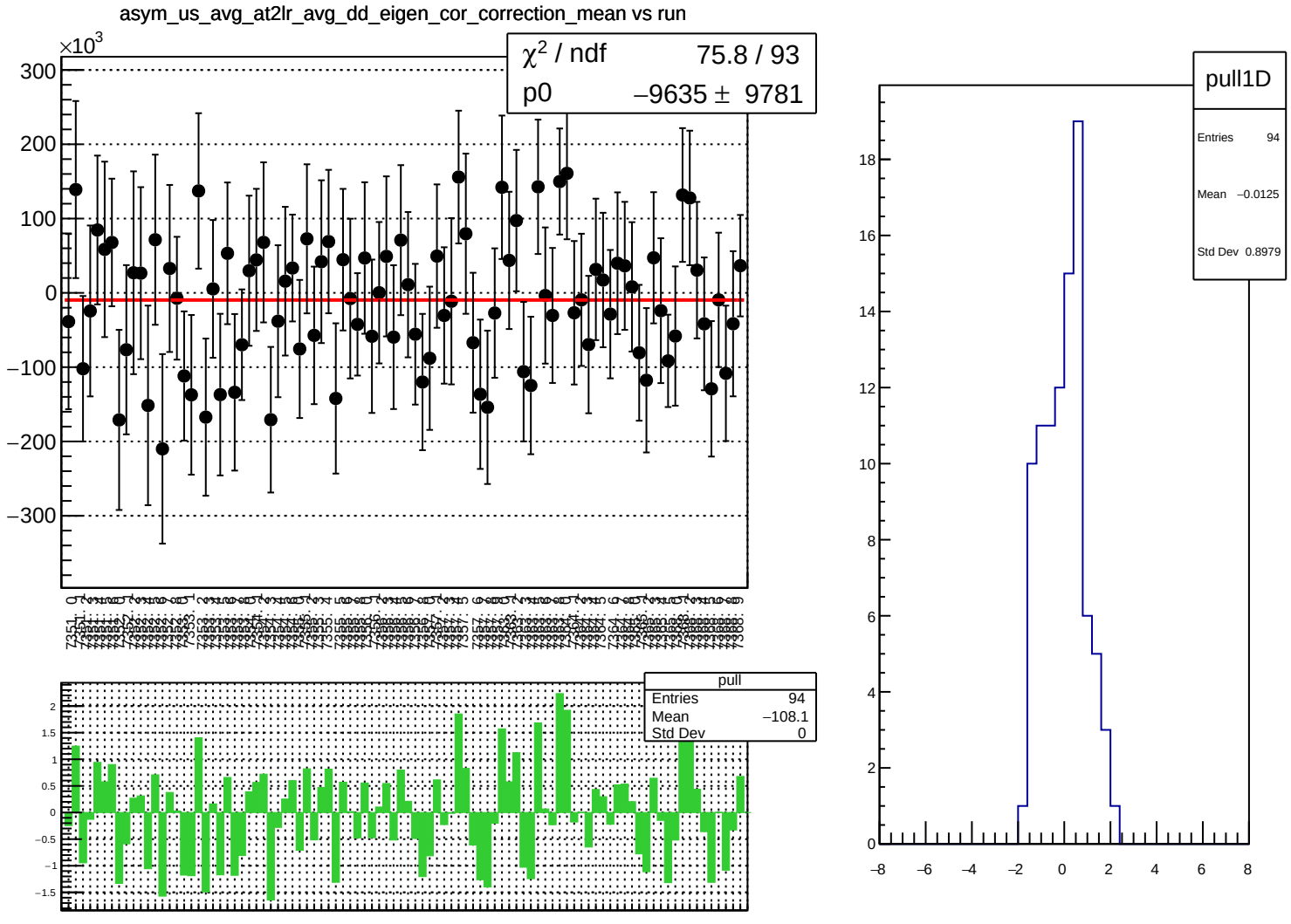

asym_us_avg_at2lr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 75.8 / 93
p0 −9635 ± 9781
300
200
100
0
−100
−200
−300
pull
Entries 94
Mean −108.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

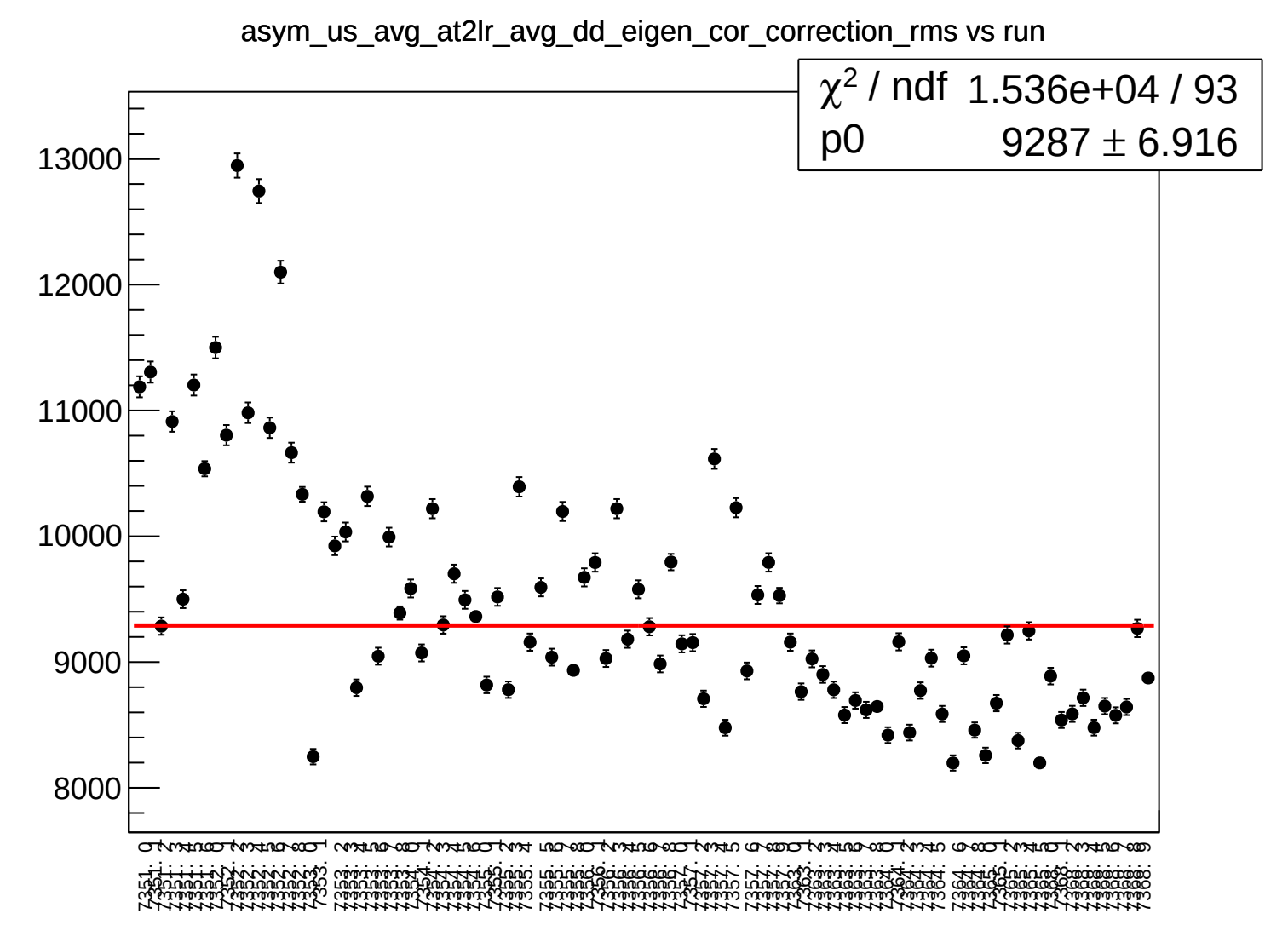

pull1D
Entries 94
Mean −0.0125
Std Dev 0.8979
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

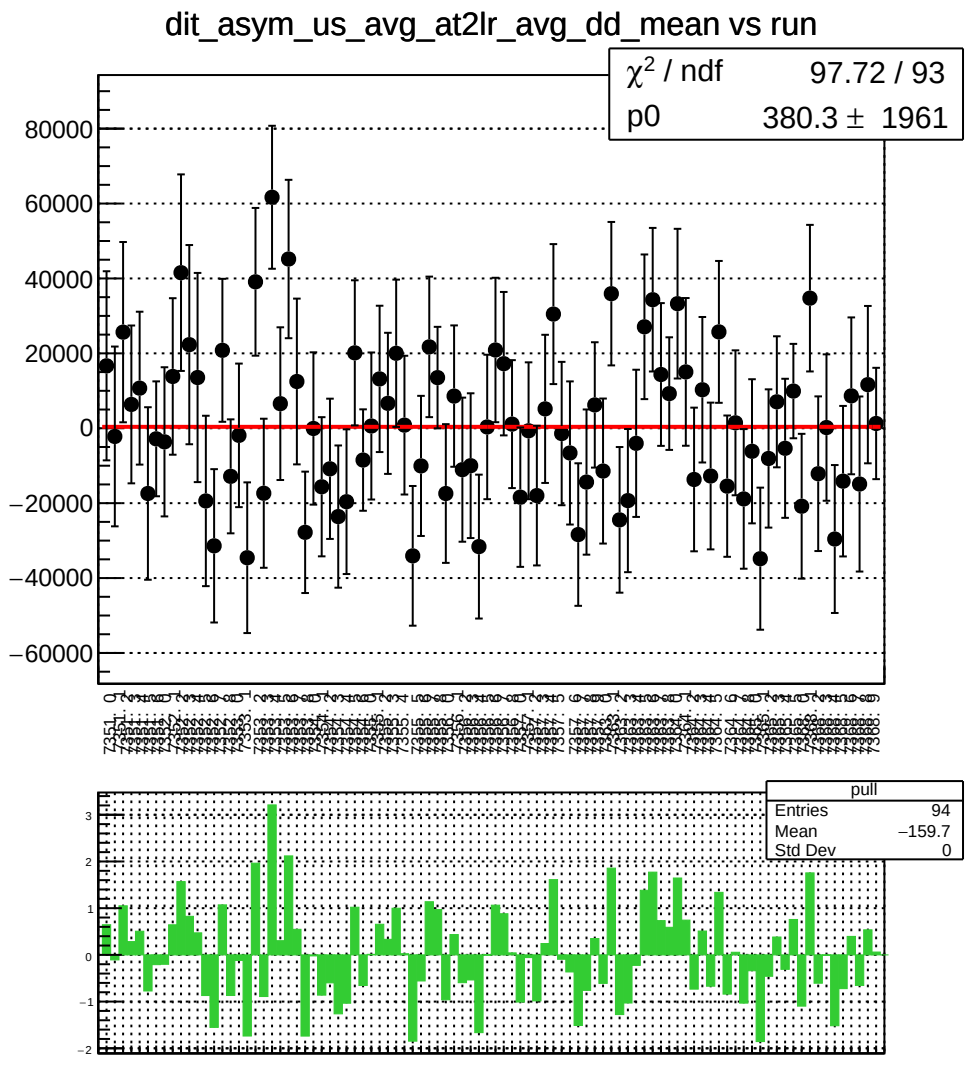

asym_us_avg_at2lr_avg_dd_cor_correction_rms vs run
χ² / ndf 1.536e+04 / 93
p0 9287 ± 6.916
13000
12000
11000
10000
9000
8000

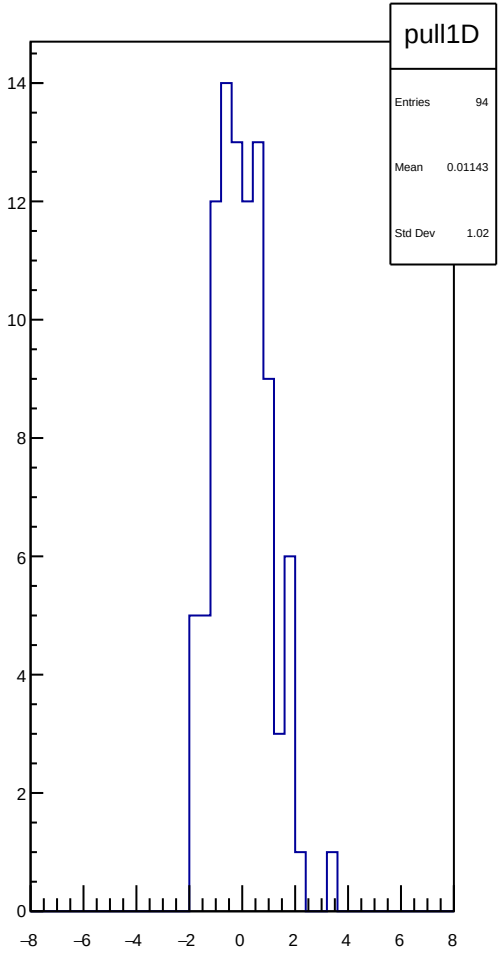

eigen_cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 117.2 / 93
p0 1866 ± 1573
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −409.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.006596
Std Dev 1.116
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

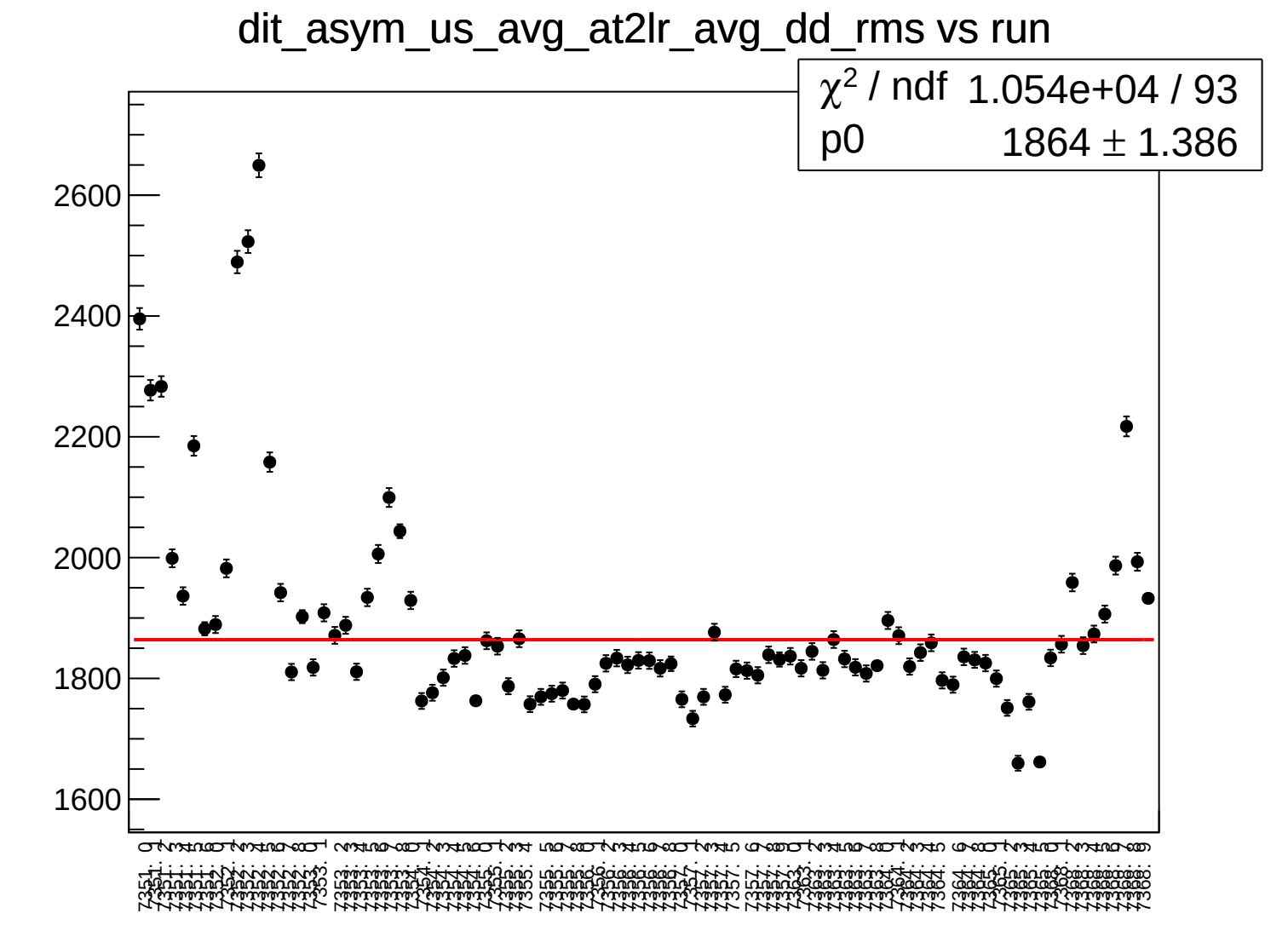

eigen_cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 424.2 / 93
p0 1500 ± 1.112
1560
1540
1520
1500
1480
1460
1440

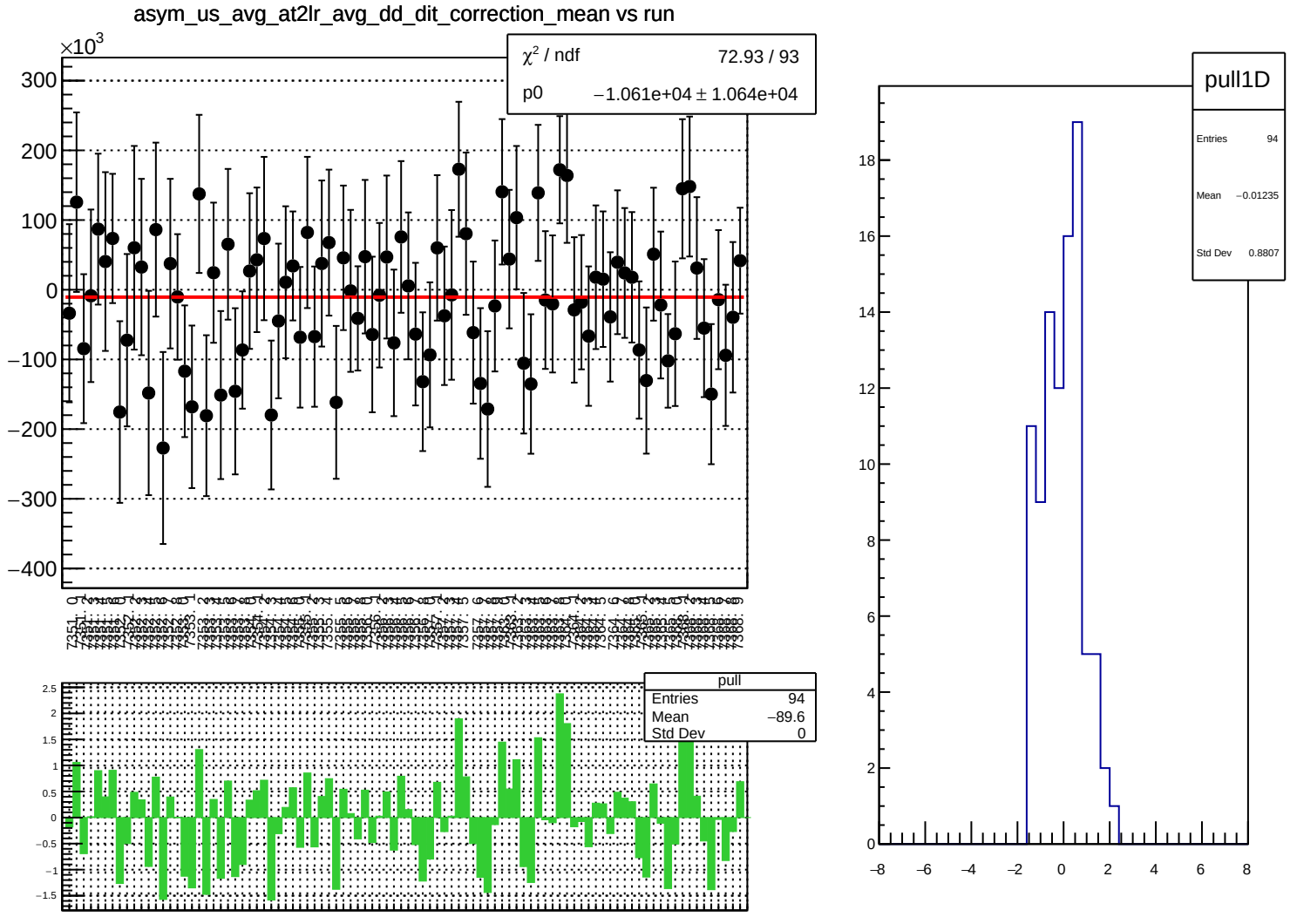

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 75.8 / 93
p0 −9635 ± 9781
300
200
100
0
−100
−200
−300
pull
Entries 94
Mean −108.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 94
Mean −0.0125
Std Dev 0.8979
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

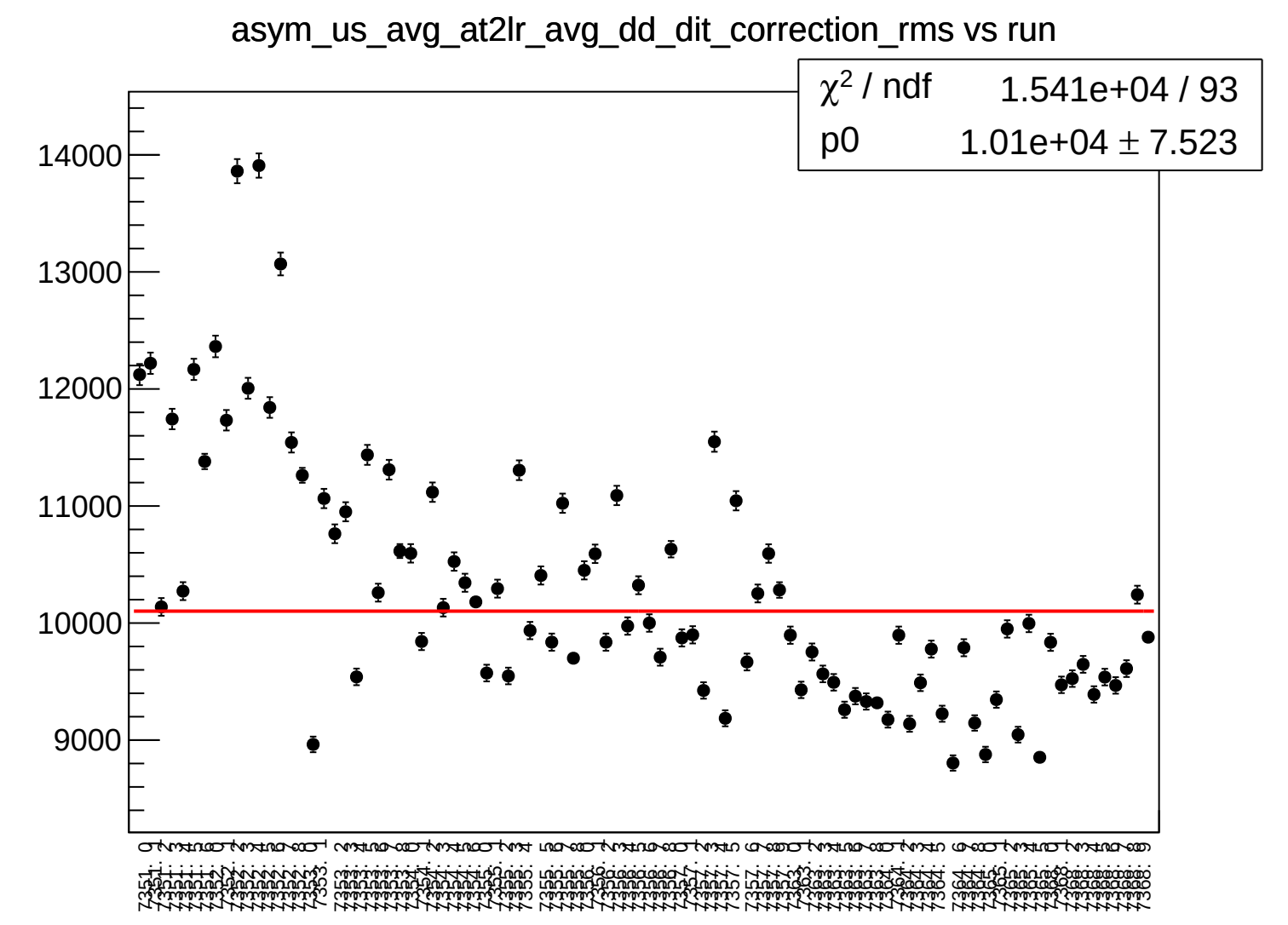

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.536e+04 / 93
p0 9287 ± 6.916
13000
12000
11000
10000
9000
8000

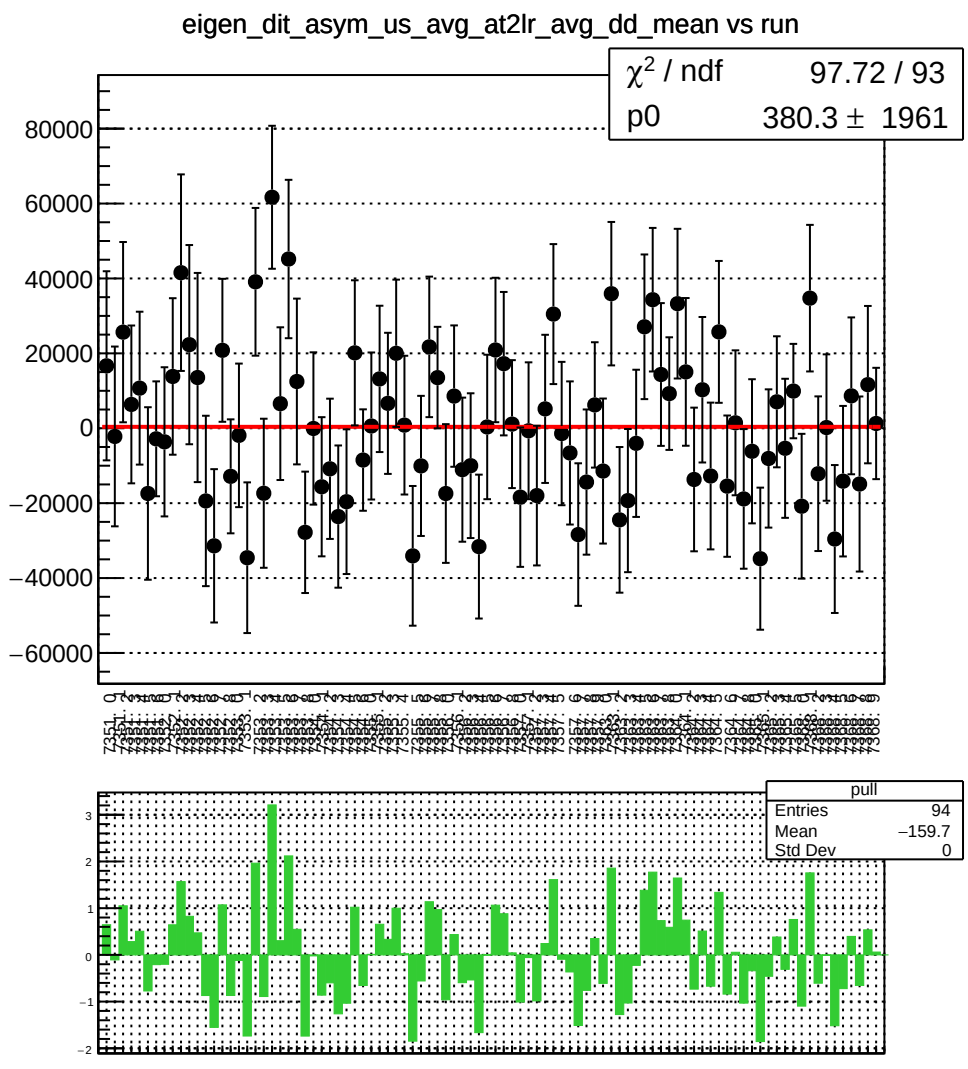

dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 97.72 / 93
p0 380.3 ± 1961
pull
Entries 94
Mean −159.7
Std Dev 0

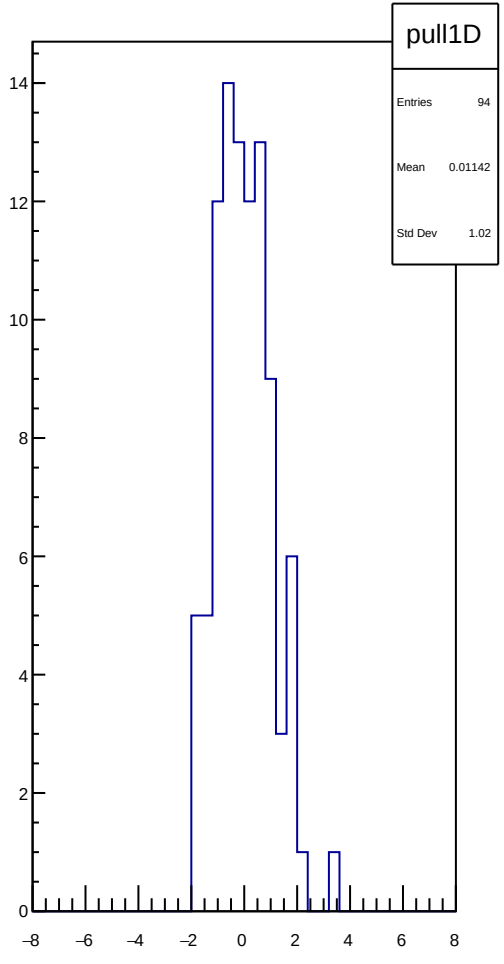

pull1D
Entries 94
Mean 0.01143
Std Dev 1.02

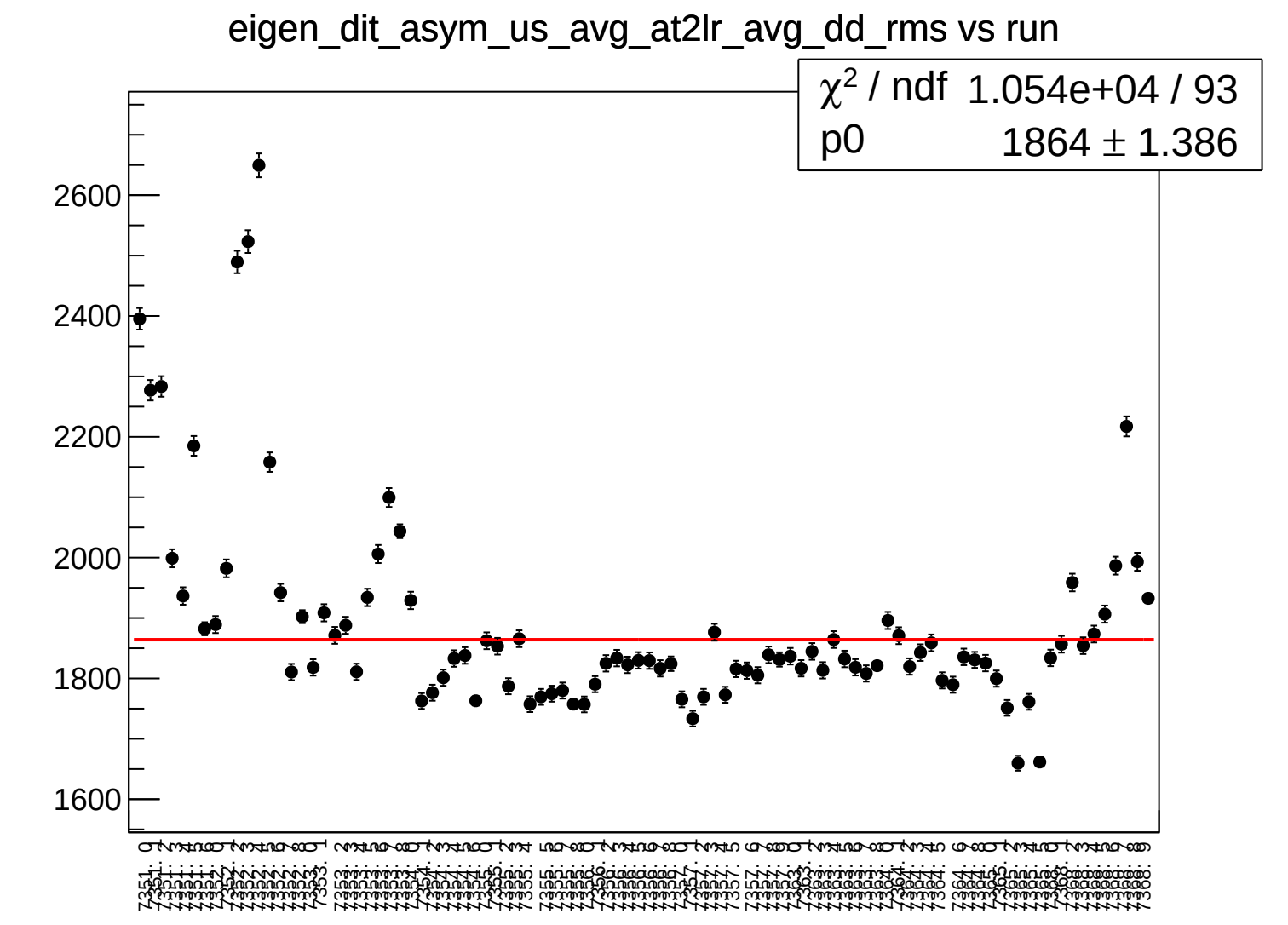

dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 1.054e+04 / 93
p0 1864 ± 1.386
2600
2400
2200
2000
1800
1600

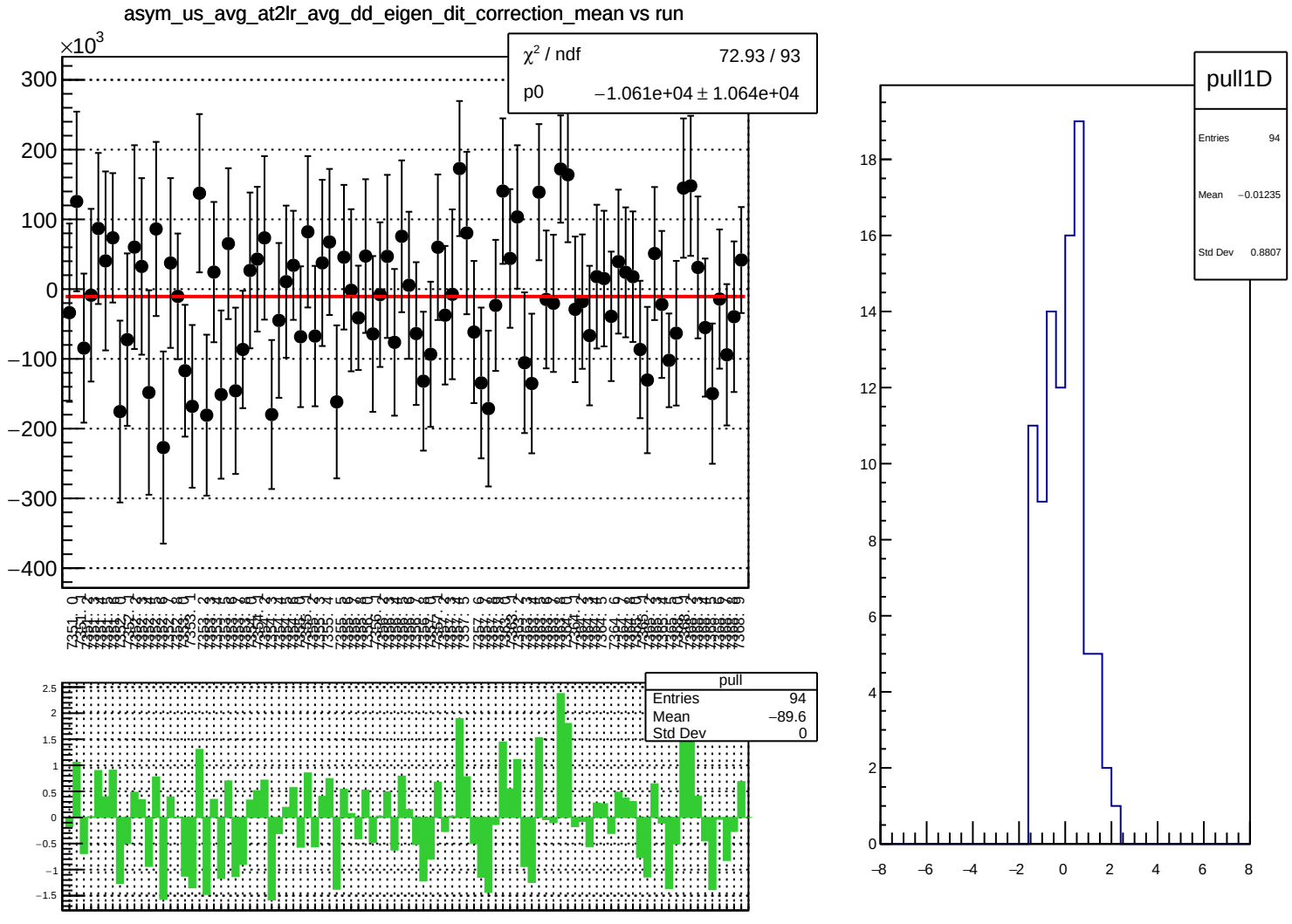

asym_us_avg_at2lr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 72.93 / 93
p0 −1.061e+04 ± 1.064e+04
pull
Entries 94
Mean −89.6
Std Dev 0
pull1D
Entries 94
Mean −0.01235
Std Dev 0.8807

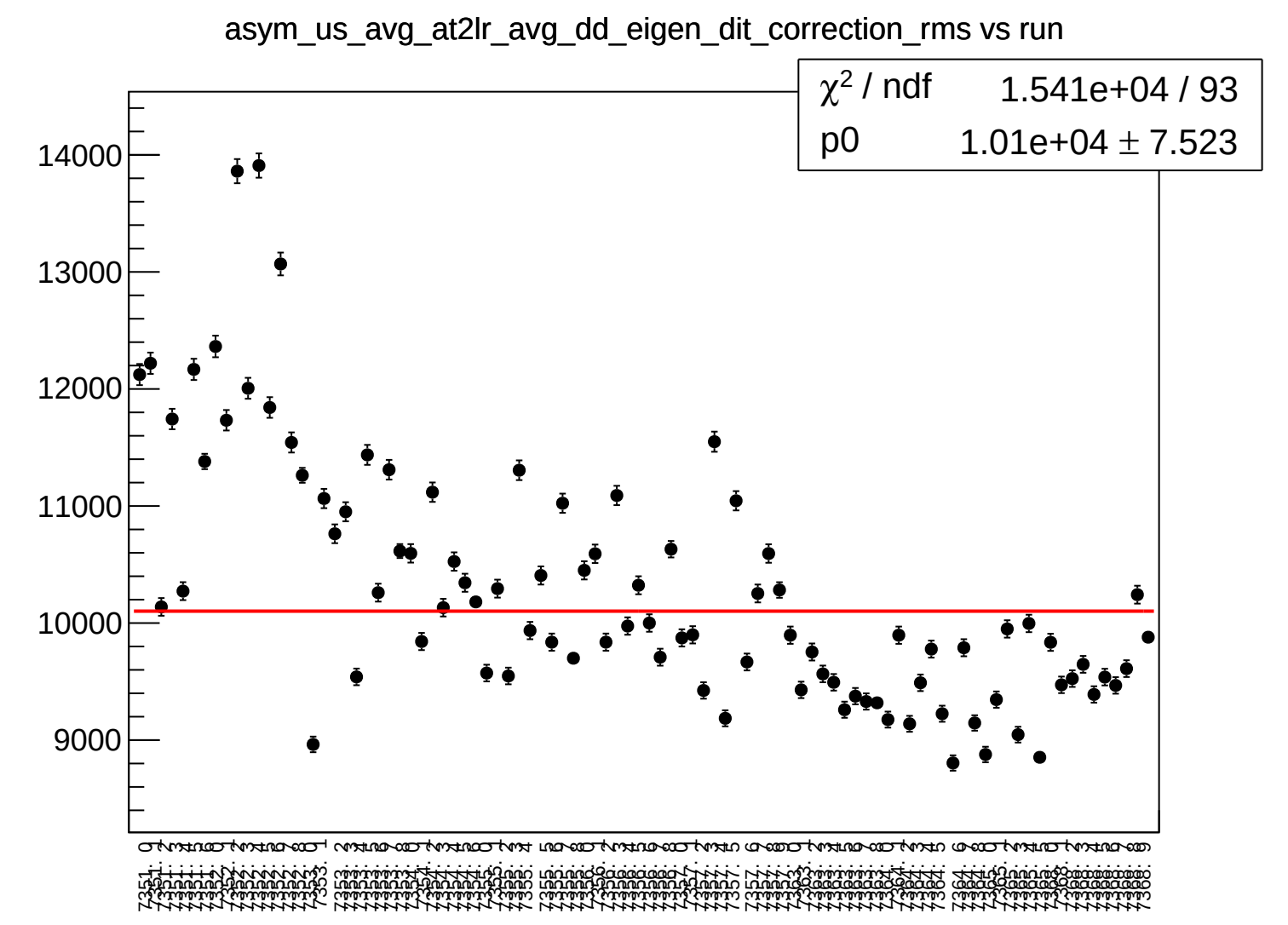

asym_us_avg_at2lr_avg_dd_dit_correction_rms vs run
χ^2 / ndf 1.541e+04 / 93
p0 1.01e+04 ± 7.523
14000
13000
12000
11000
10000
9000

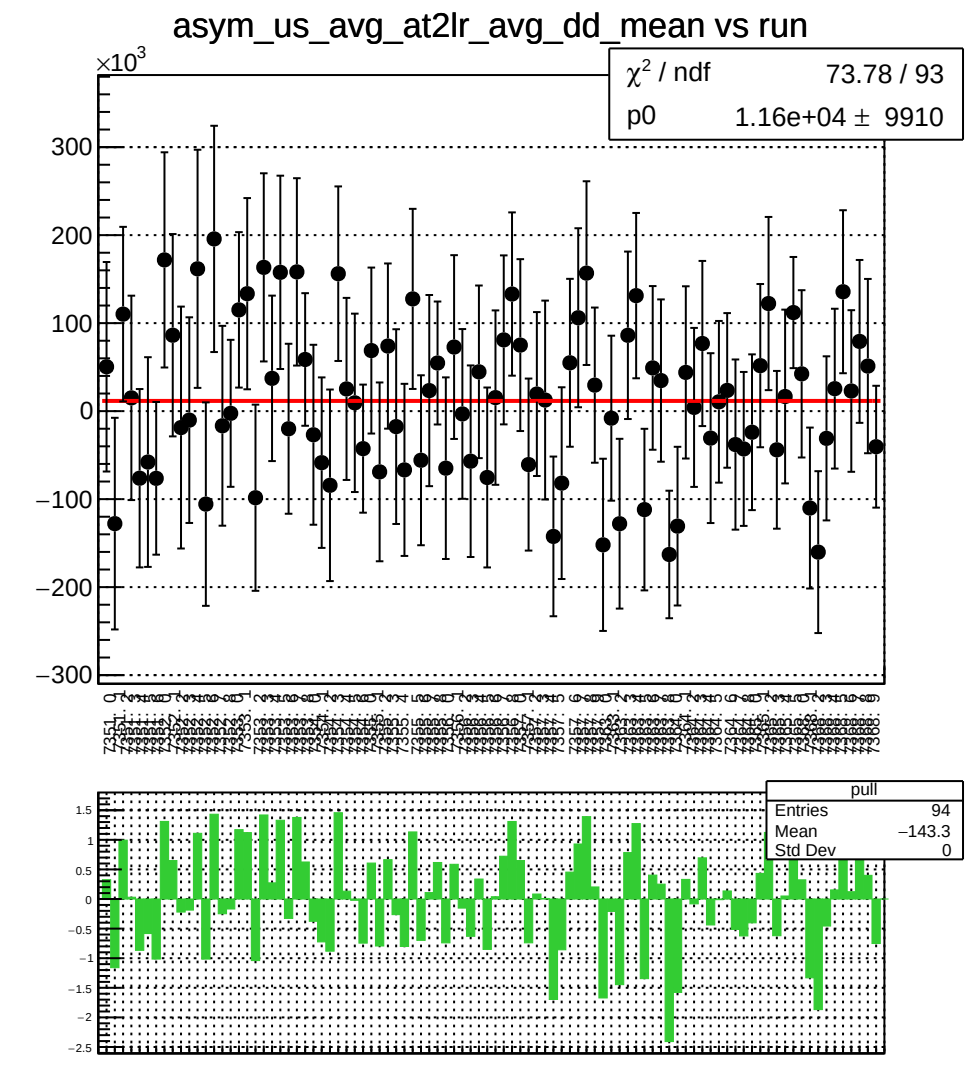

eigen_dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 97.72 / 93
p0 380.3 ± 1961
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −159.7
Std Dev 0
3
2
1
0
−1
−2

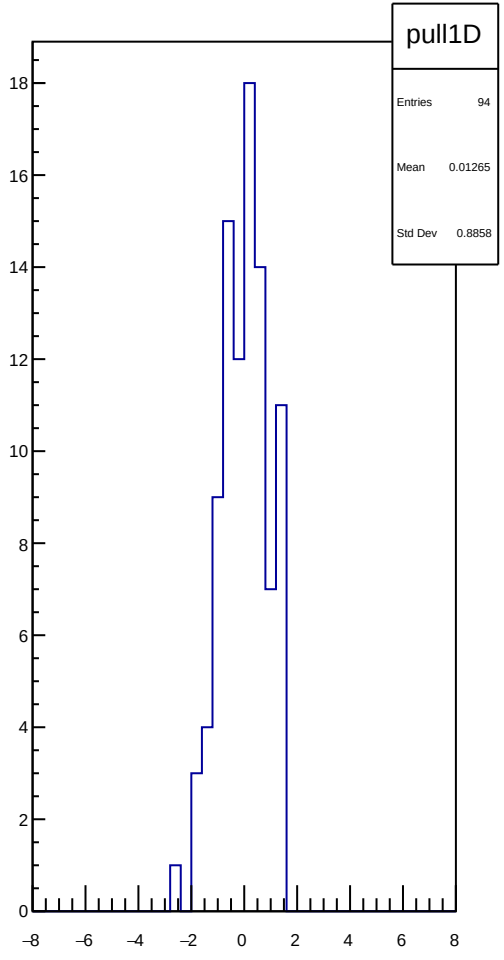

pull1D
Entries 94
Mean 0.01142
Std Dev 1.02
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

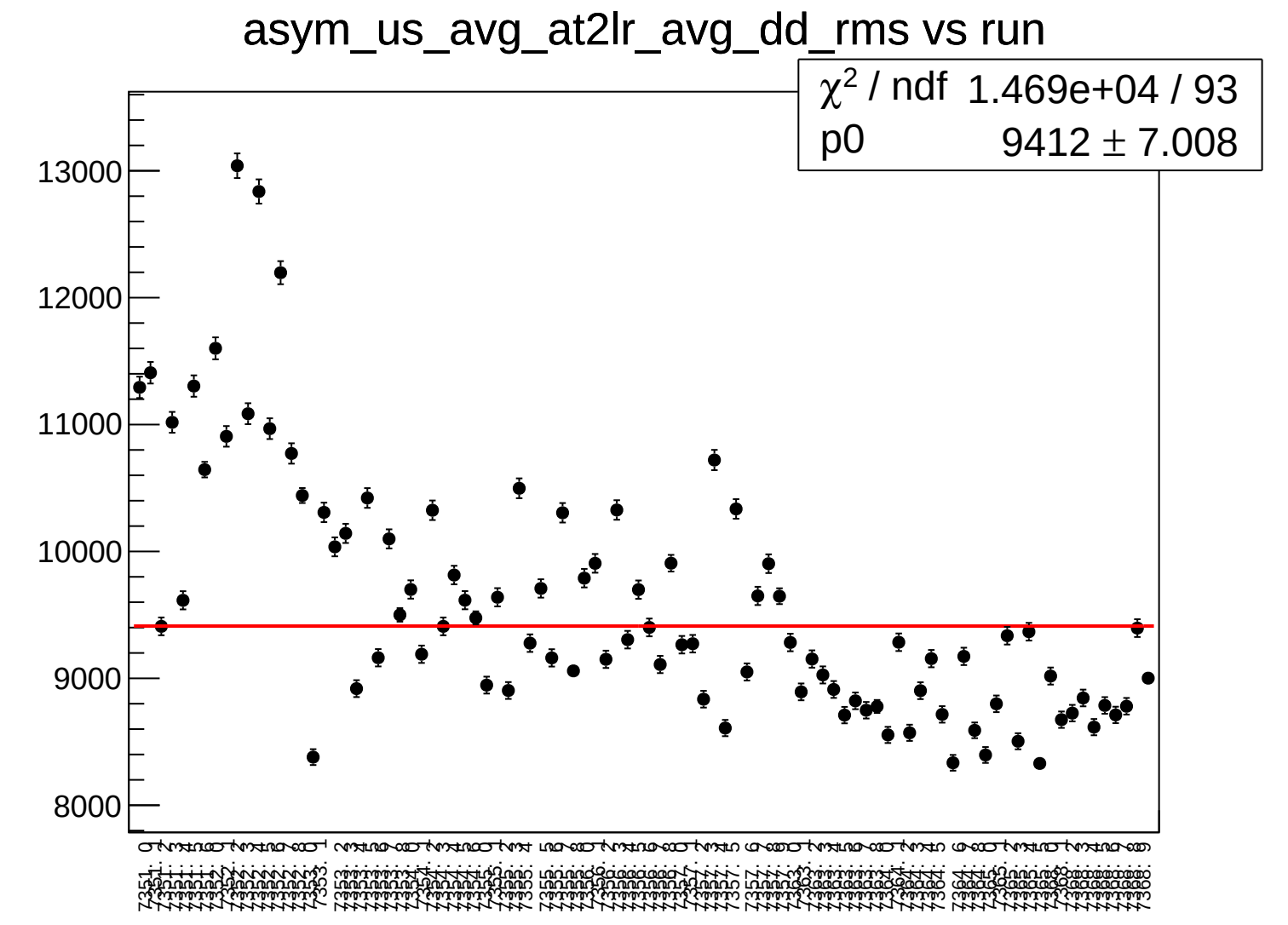

eigen_dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 1.054e+04 / 93
p0 1864 ± 1.386
2600
2400
2200
2000
1800
1600

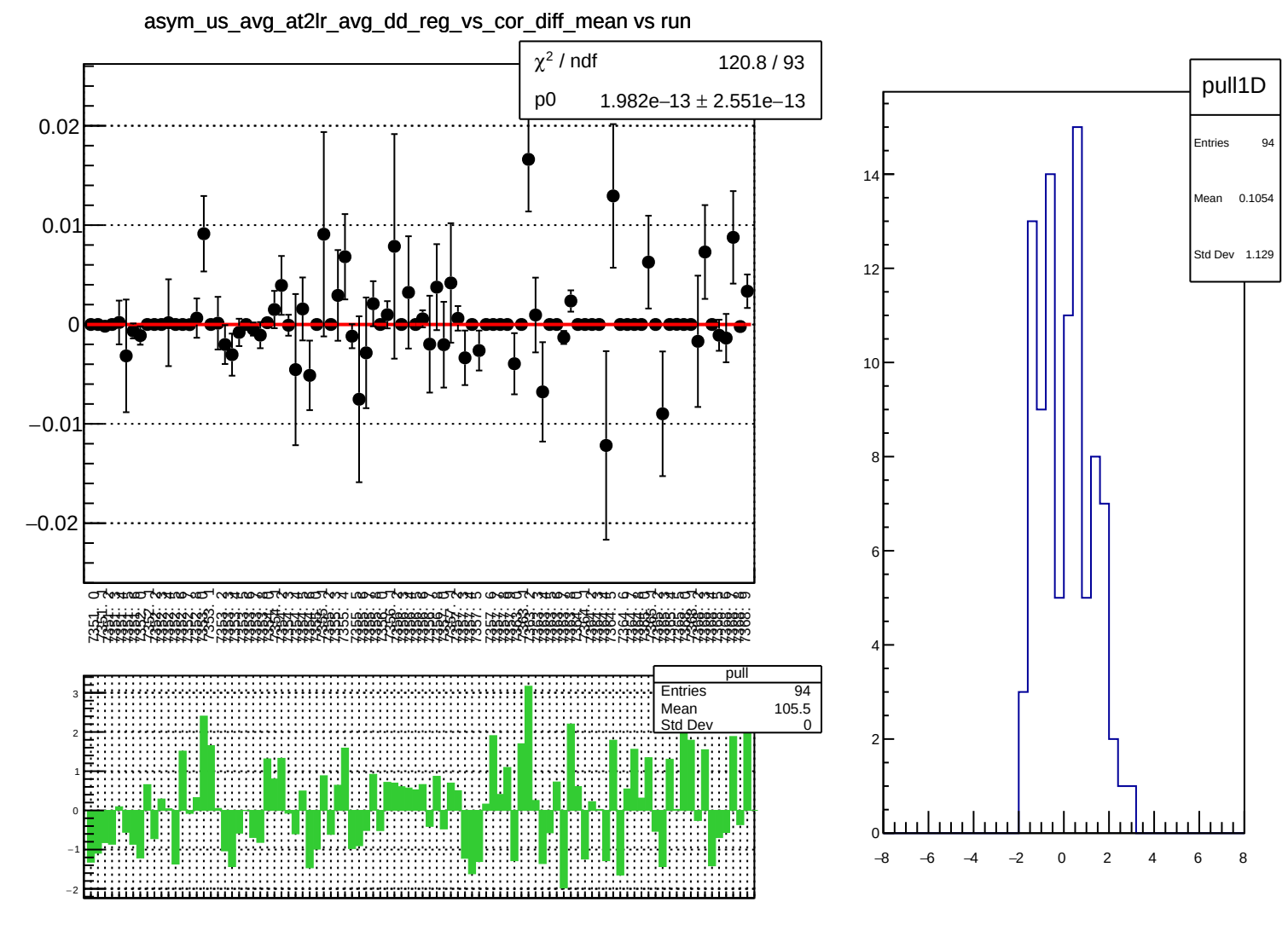

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 72.93 / 93
p0 −1.061e+04 ± 1.064e+04
300
200
100
0
−100
−200
−300
−400
pull
Entries 94
Mean −89.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 94
Mean −0.01235
Std Dev 0.8807
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

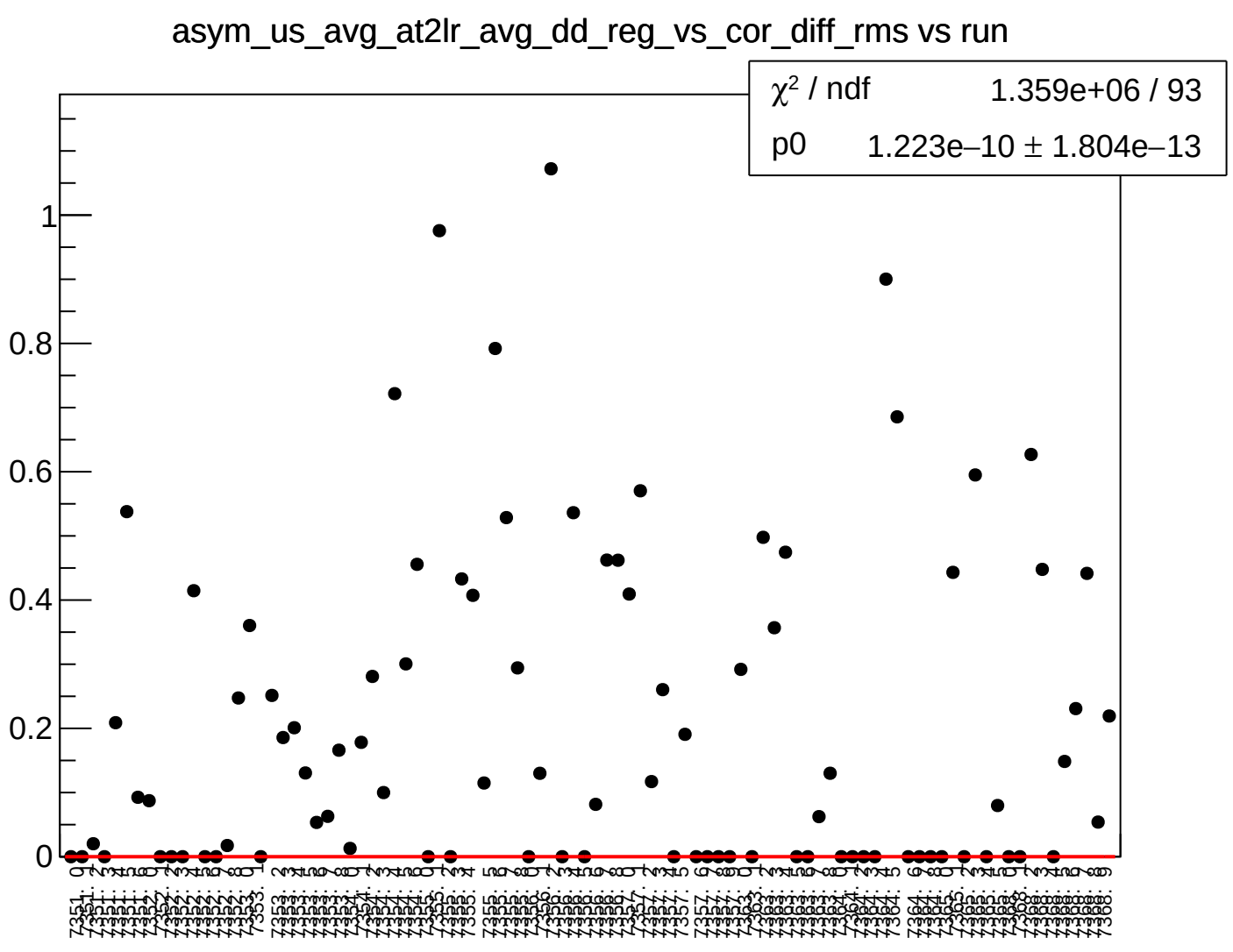

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 1.541e+04 / 93
p0 1.01e+04 ± 7.523
14000
13000
12000
11000
10000
9000

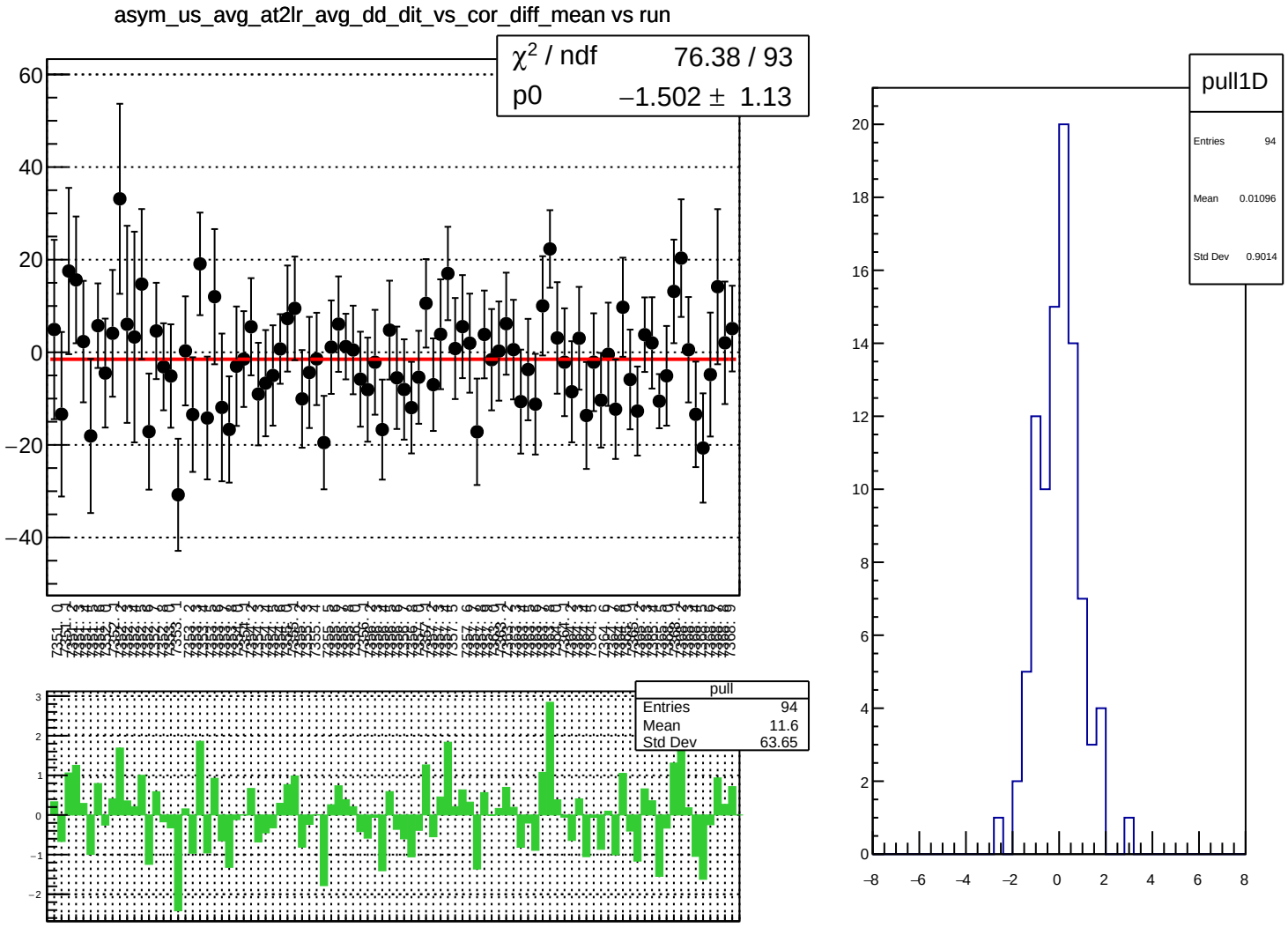

asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ² / ndf 73.78 / 93
p0 1.16e+04 ± 9910
300
200
100
0
−100
−200
−300
pull
Entries 94
Mean −143.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

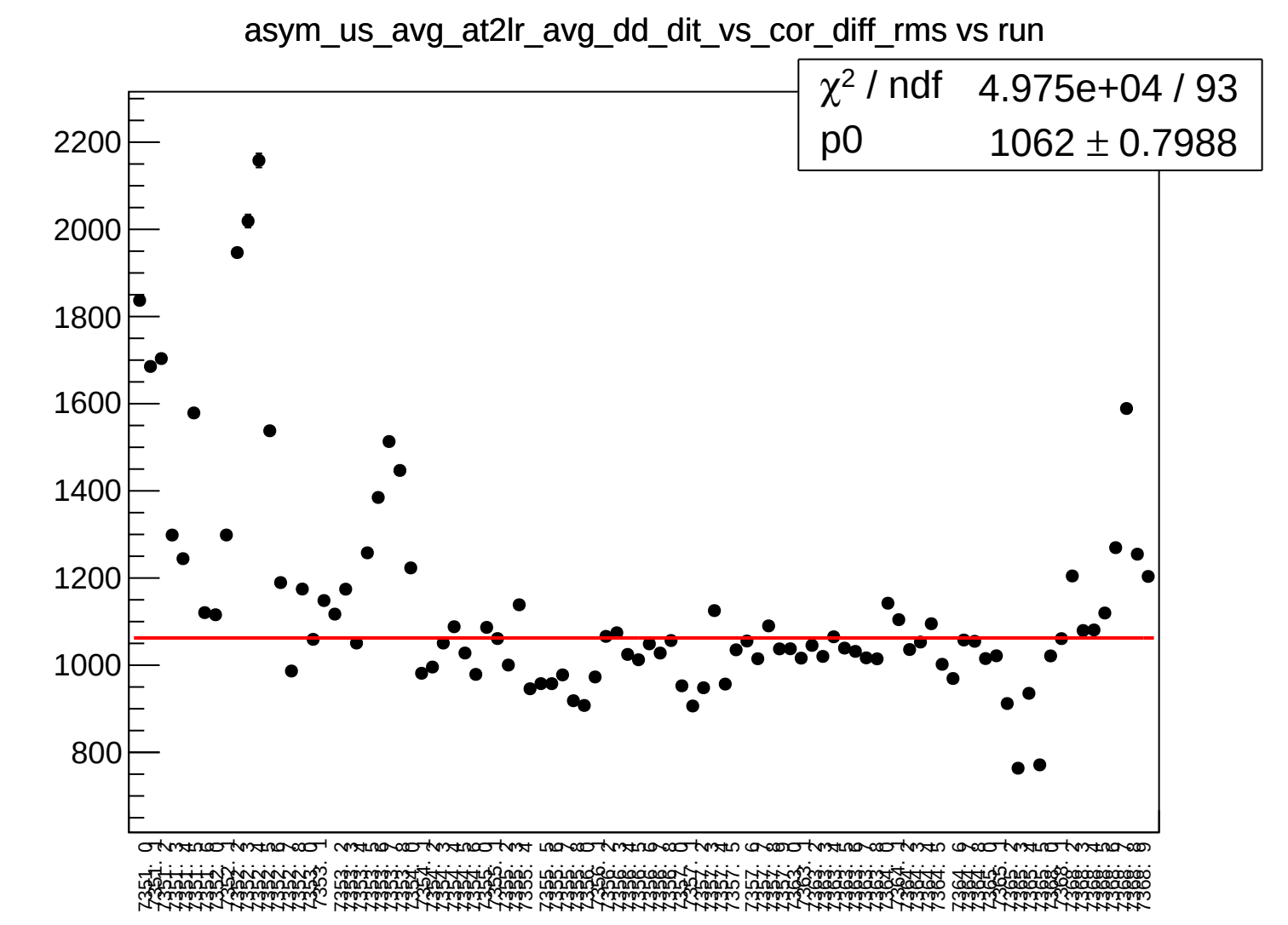

pull1D
Entries 94
Mean 0.01265
Std Dev 0.8858
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

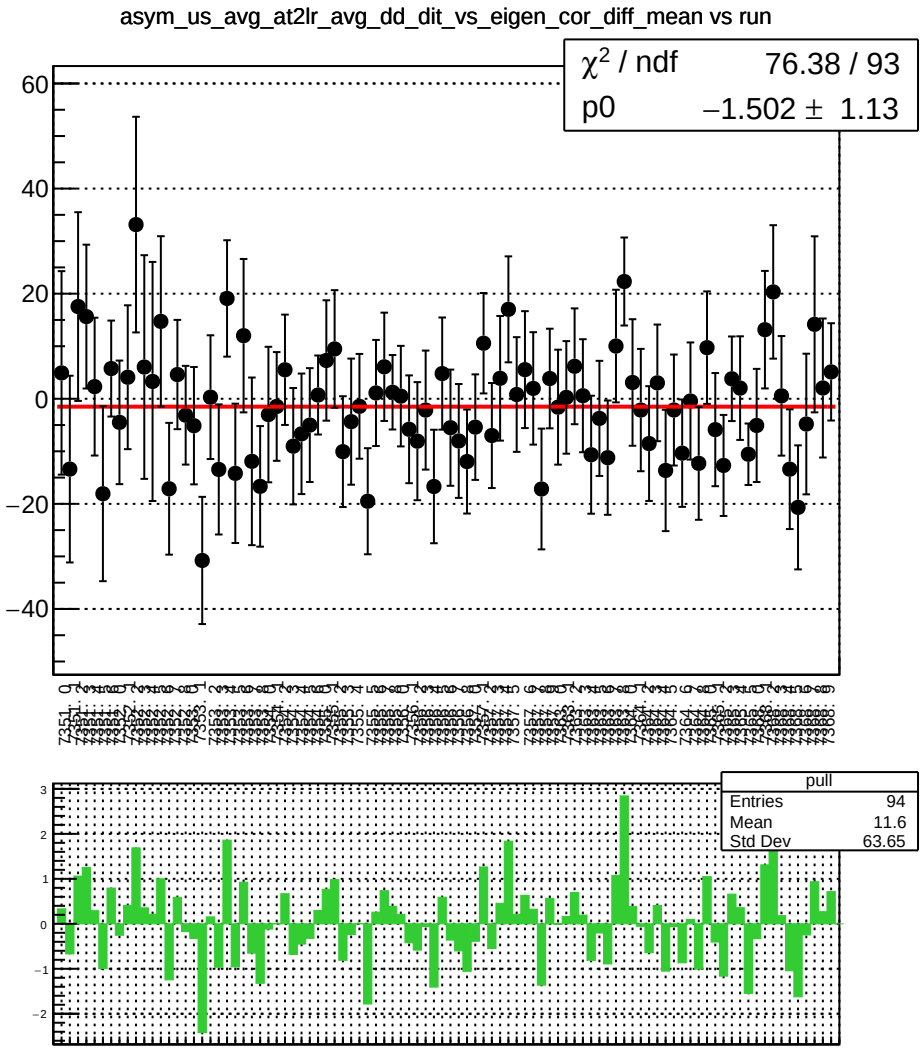

asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 1.469e+04 / 93
p0 9412 ± 7.008
13000
12000
11000
10000
9000
8000

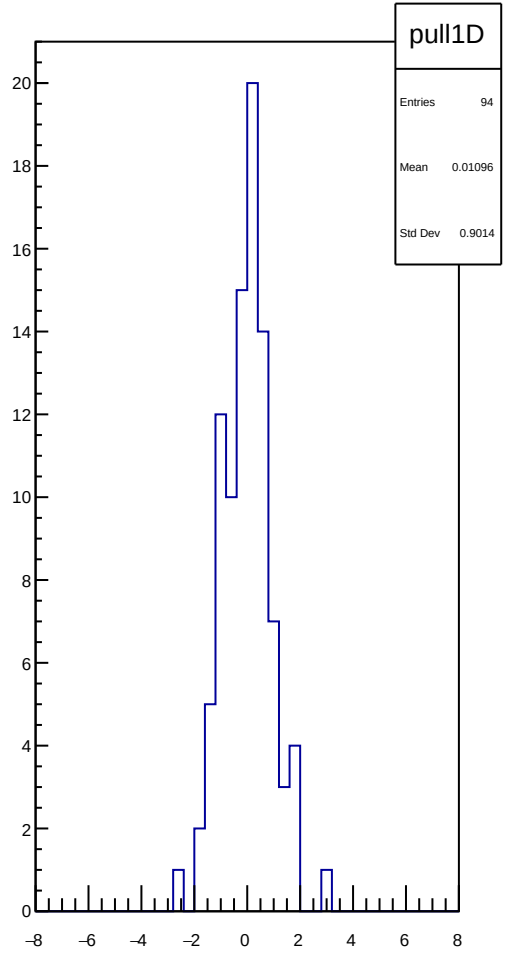

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 120.8 / 93
p0 1.982e−13 ± 2.551e−13
0.02
0.01
0
−0.01
−0.02
pull
Entries 94
Mean 105.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.1054
Std Dev 1.129
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

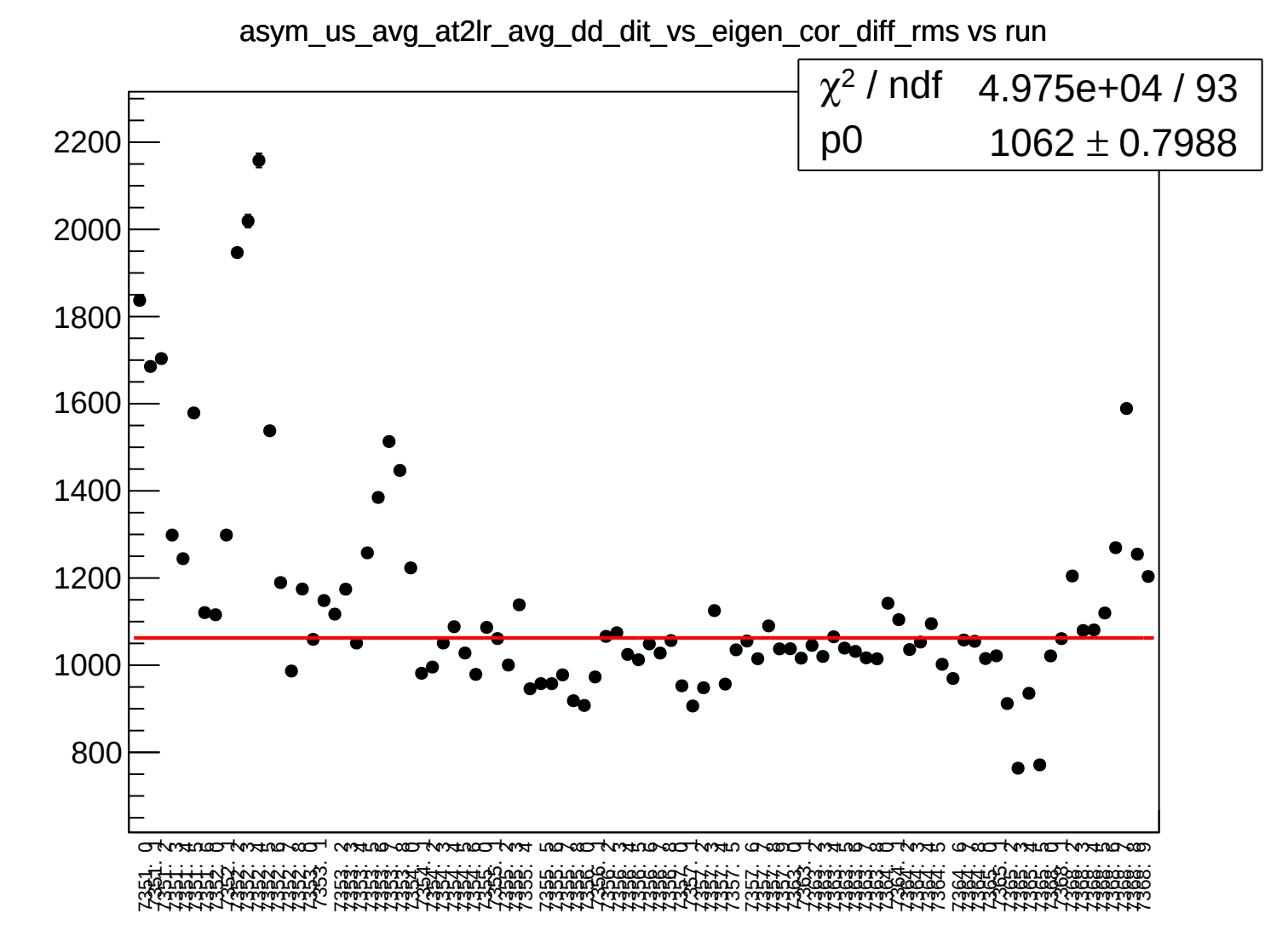

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.359e+06 / 93
p0 1.223e−10 ± 1.804e−13
1
0.8
0.6
0.4
0.2
0

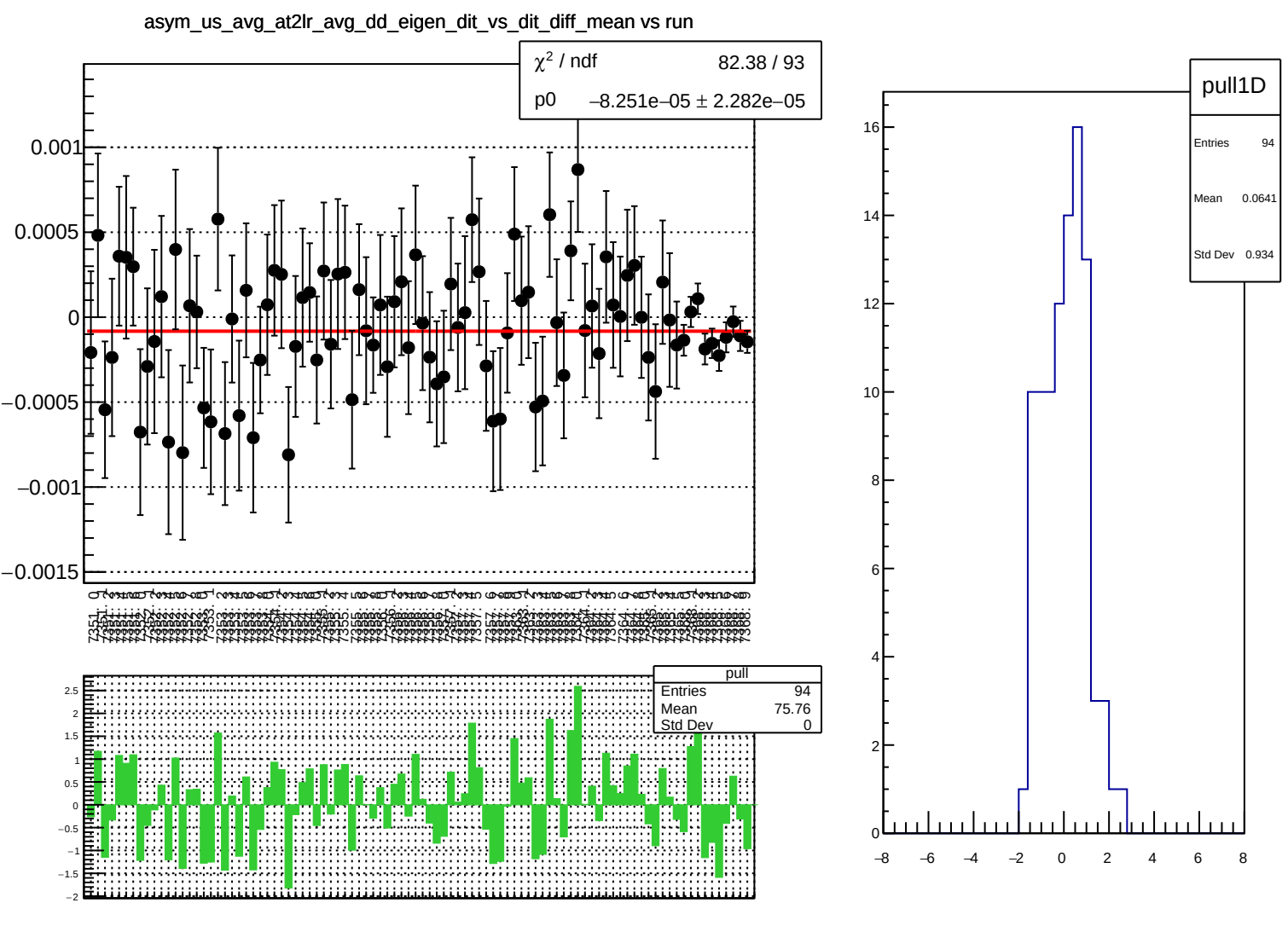

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 76.38 / 93
p0 −1.502 ± 1.13
pull
Entries 94
Mean 11.6
Std Dev 63.65
pull1D
Entries 94
Mean 0.01096
Std Dev 0.9014

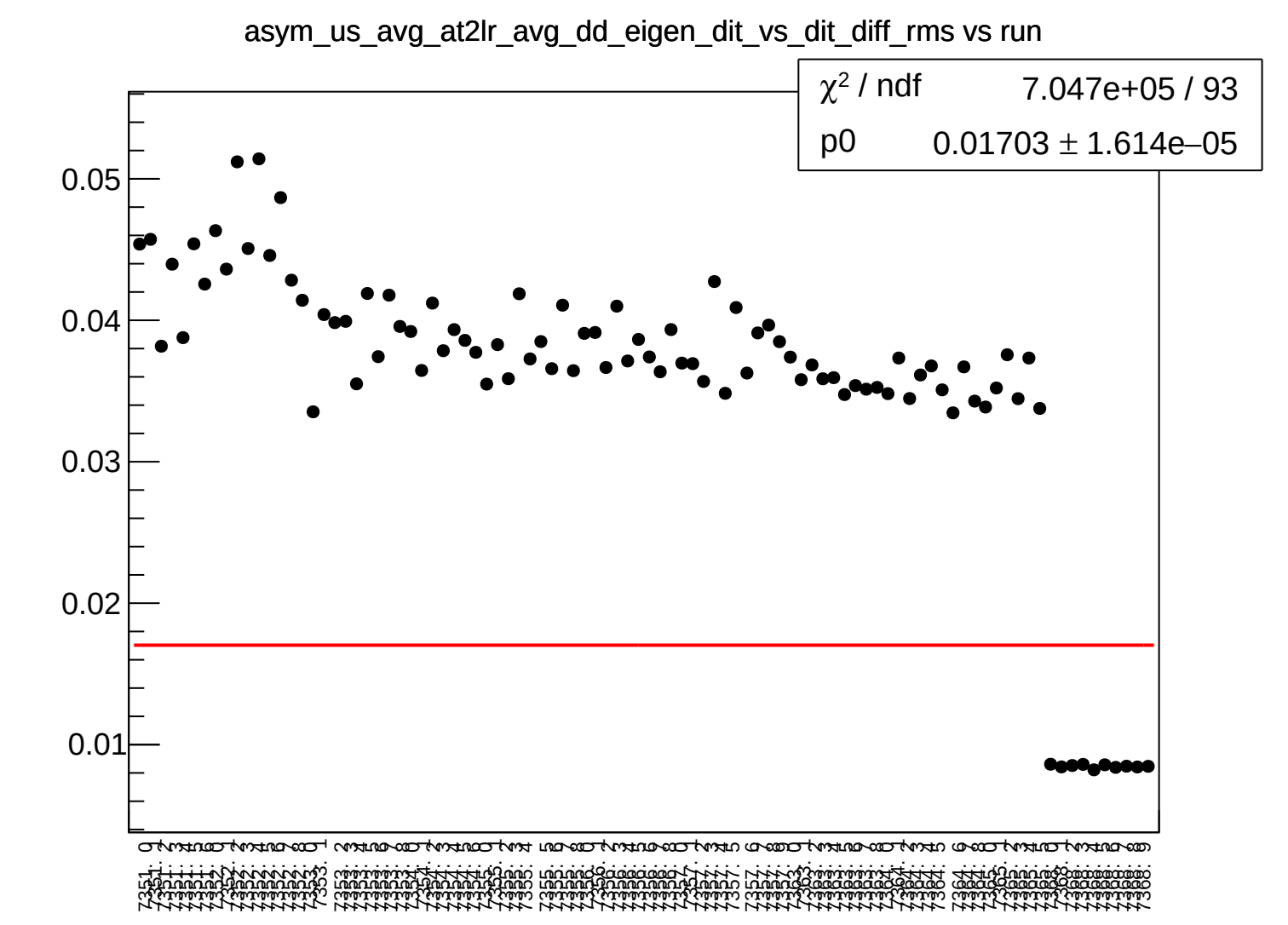

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.975e+04 / 93
p0 1062 ± 0.7988
2200
2000
1800
1600
1400
1200
1000
800

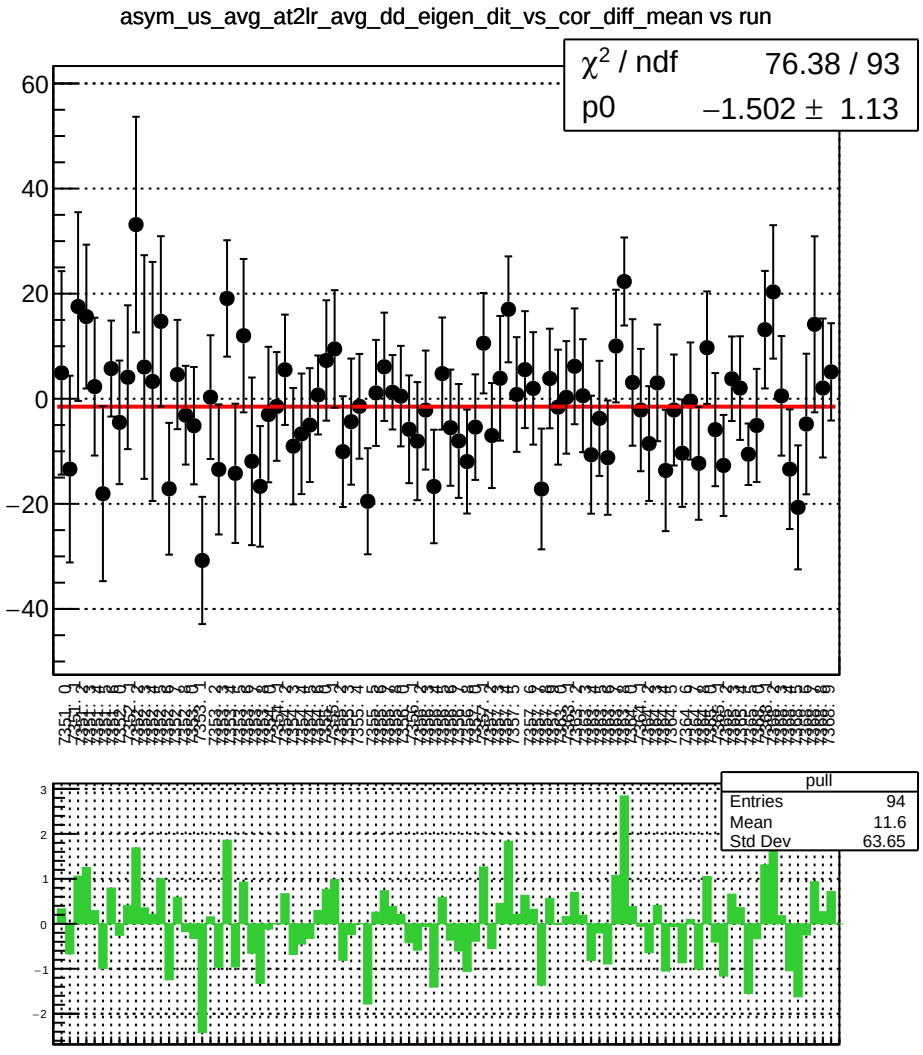

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.38 / 93
p0 −1.502 ± 1.13
pull
Entries 94
Mean 11.6
Std Dev 63.65

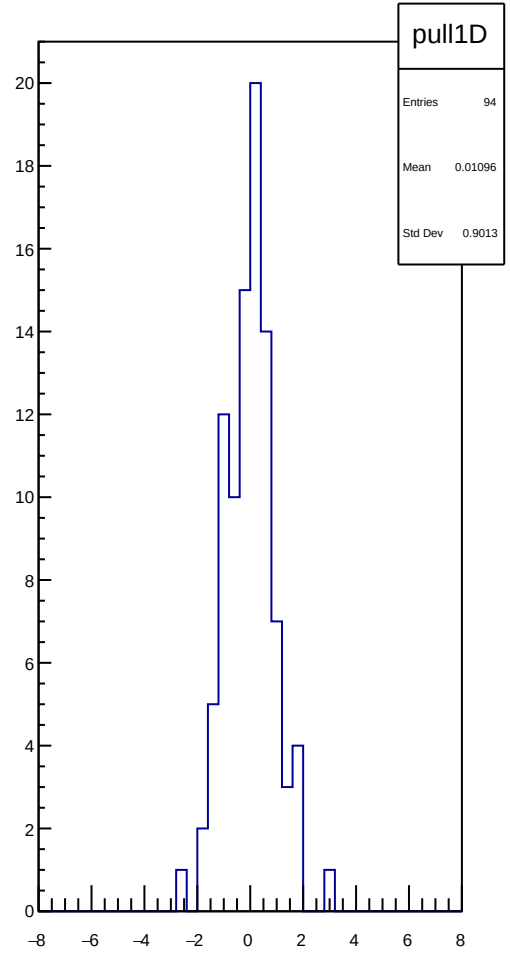

pull1D
Entries 94
Mean 0.01096
Std Dev 0.9014

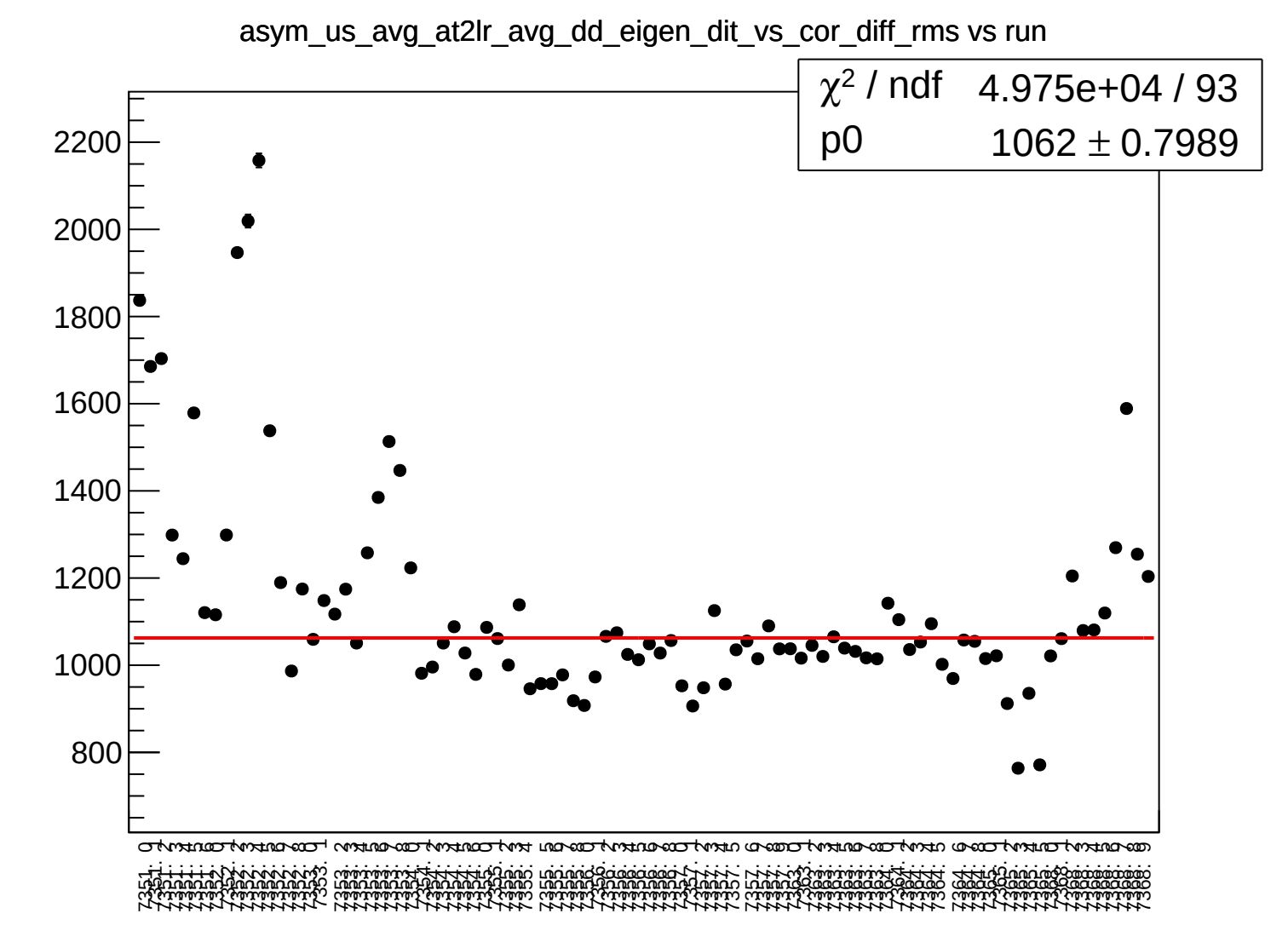

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.975e+04 / 93
p0 1062 ± 0.7988
2200
2000
1800
1600
1400
1200
1000
800

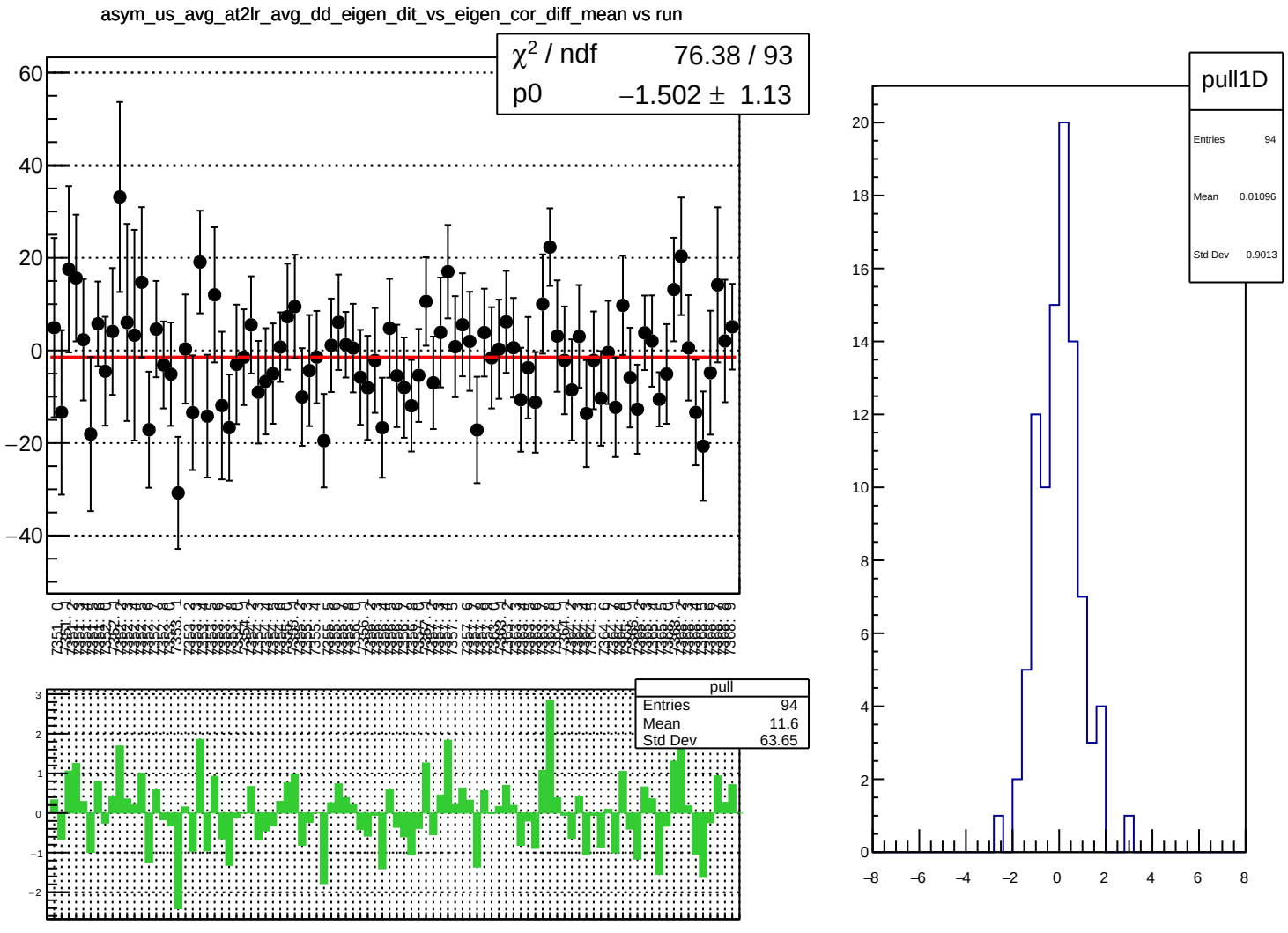

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 82.38 / 93
p0 −8.251e−05 ± 2.282e−05
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 94
Mean 75.76
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean 0.0641
Std Dev 0.934
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

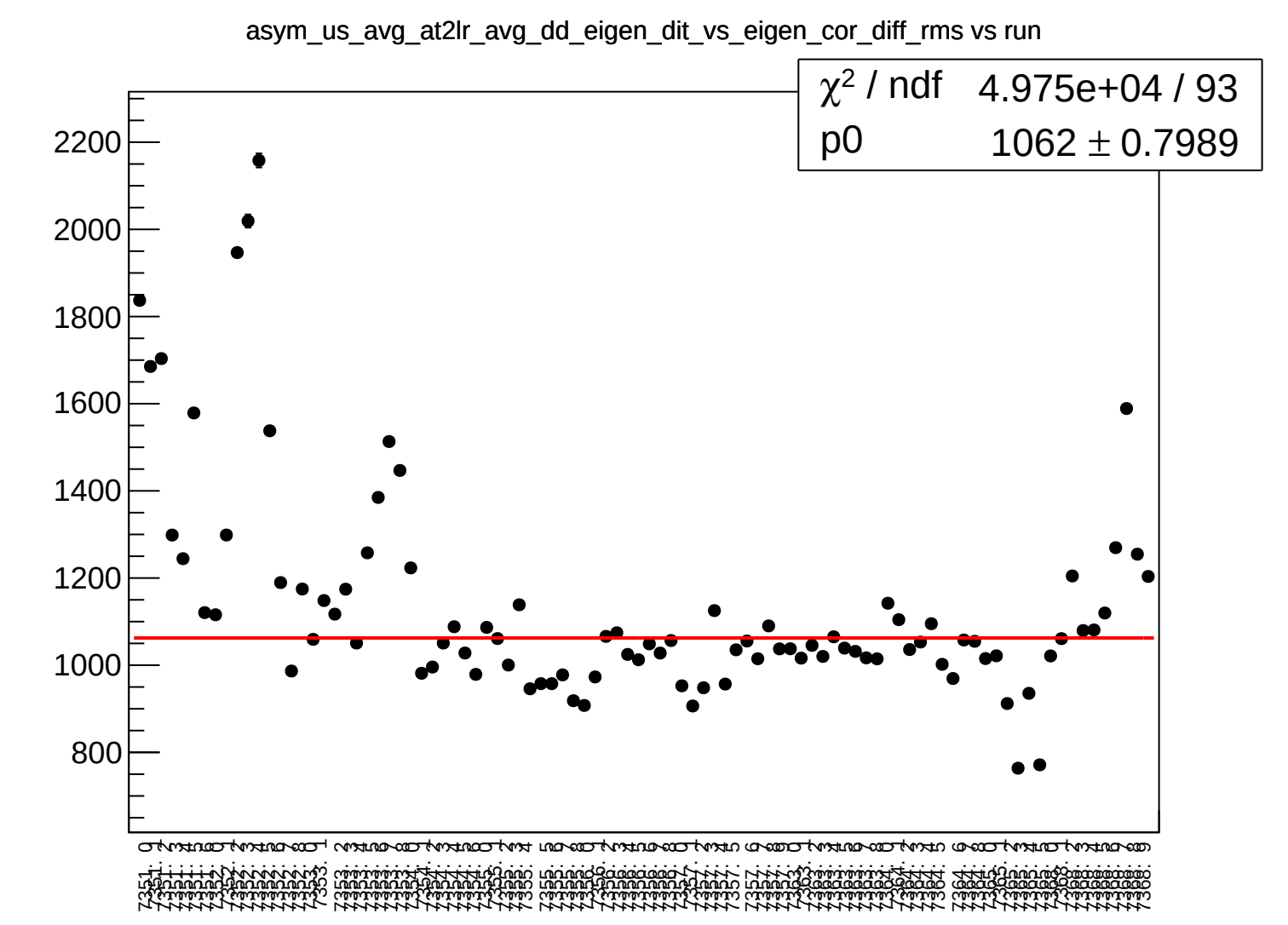

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.047e+05 / 93
p0 0.01703 ± 1.614e−05
0.05
0.04
0.03
0.02
0.01

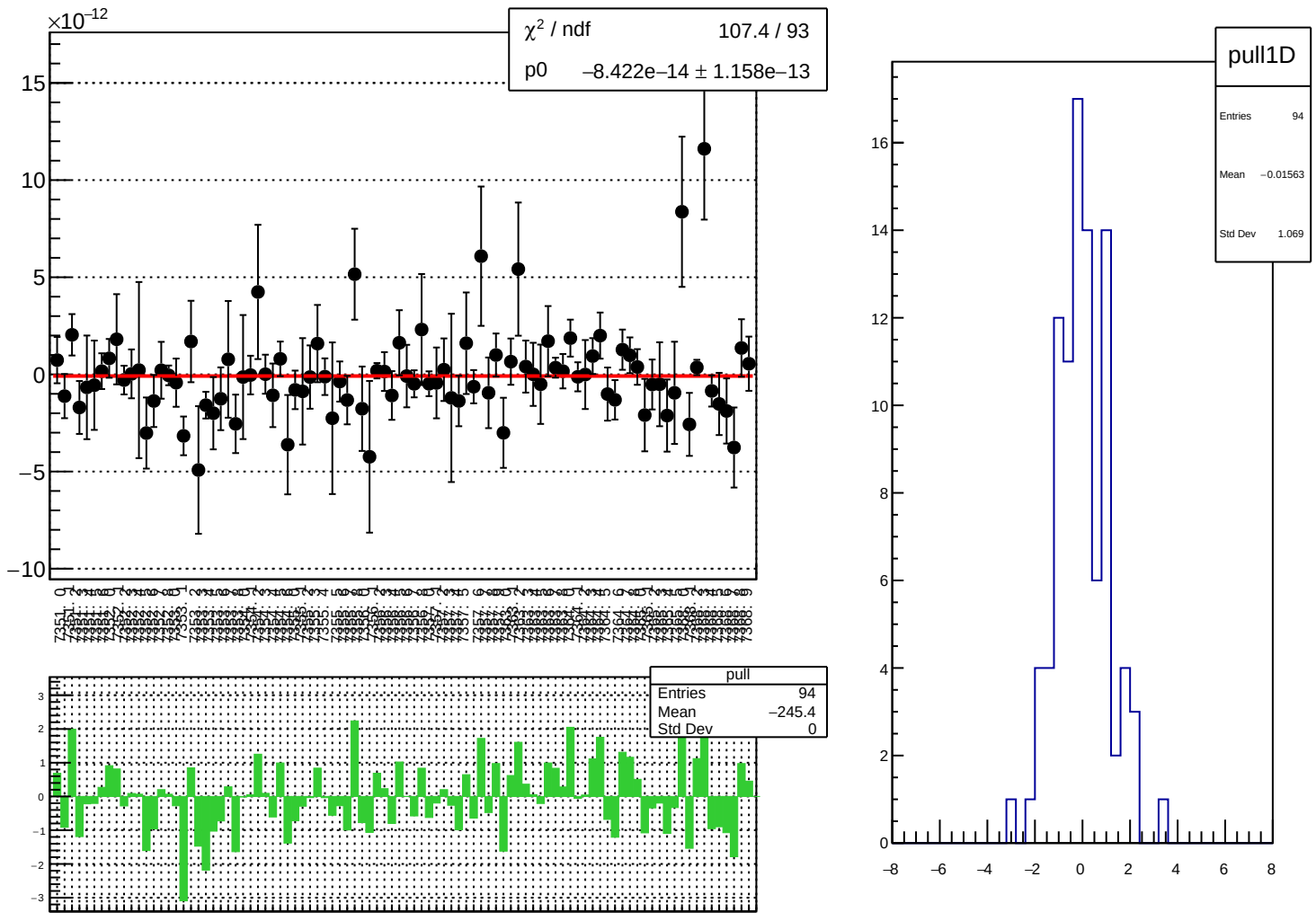

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.38 / 93
p0 −1.502 ± 1.13
pull
Entries 94
Mean 11.6
Std Dev 63.65

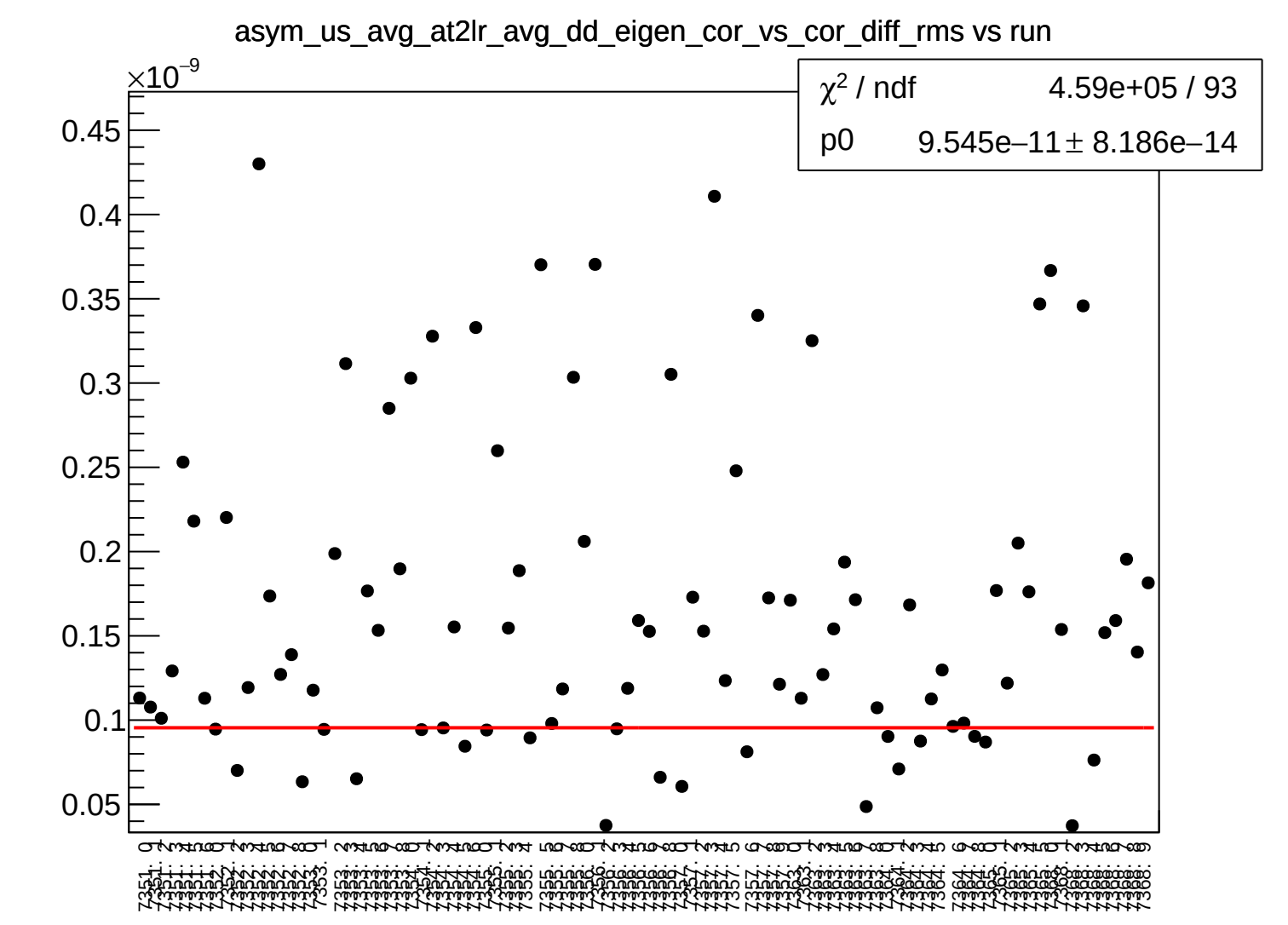

pull1D
Entries 94
Mean 0.01096
Std Dev 0.9013

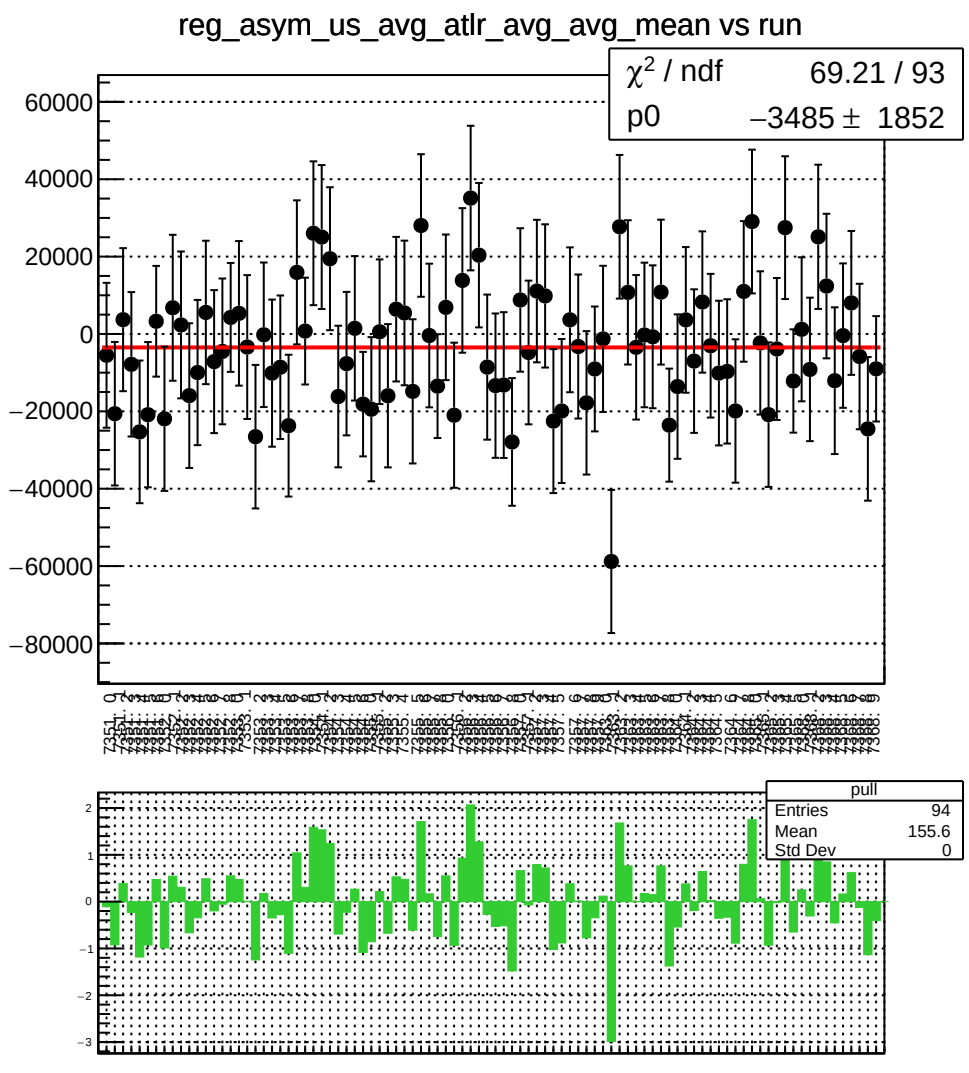

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.975e+04 / 93
p0 1062 ± 0.7989
2200
2000
1800
1600
1400
1200
1000
800

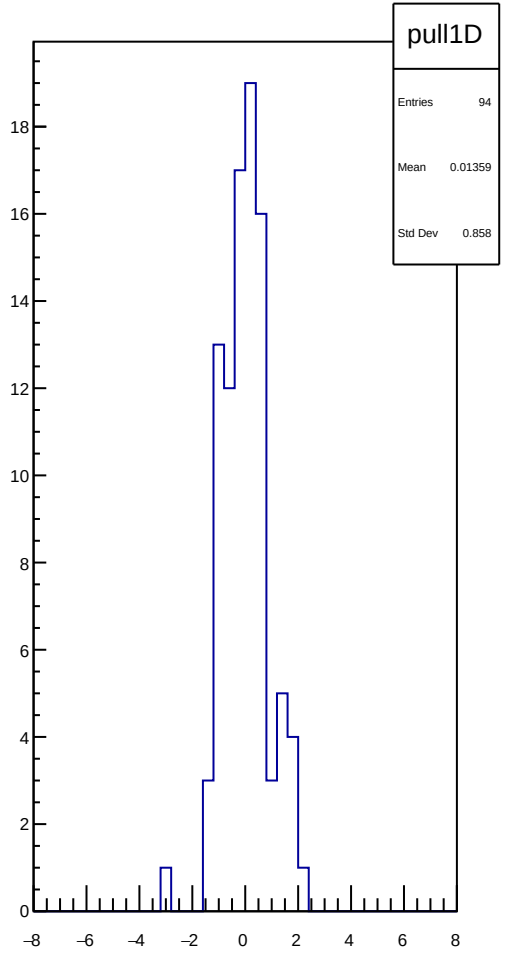

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.38 / 93
p0 −1.502 ± 1.13
pull
Entries 94
Mean 11.6
Std Dev 63.65
pull1D
Entries 94
Mean 0.01096
Std Dev 0.9013

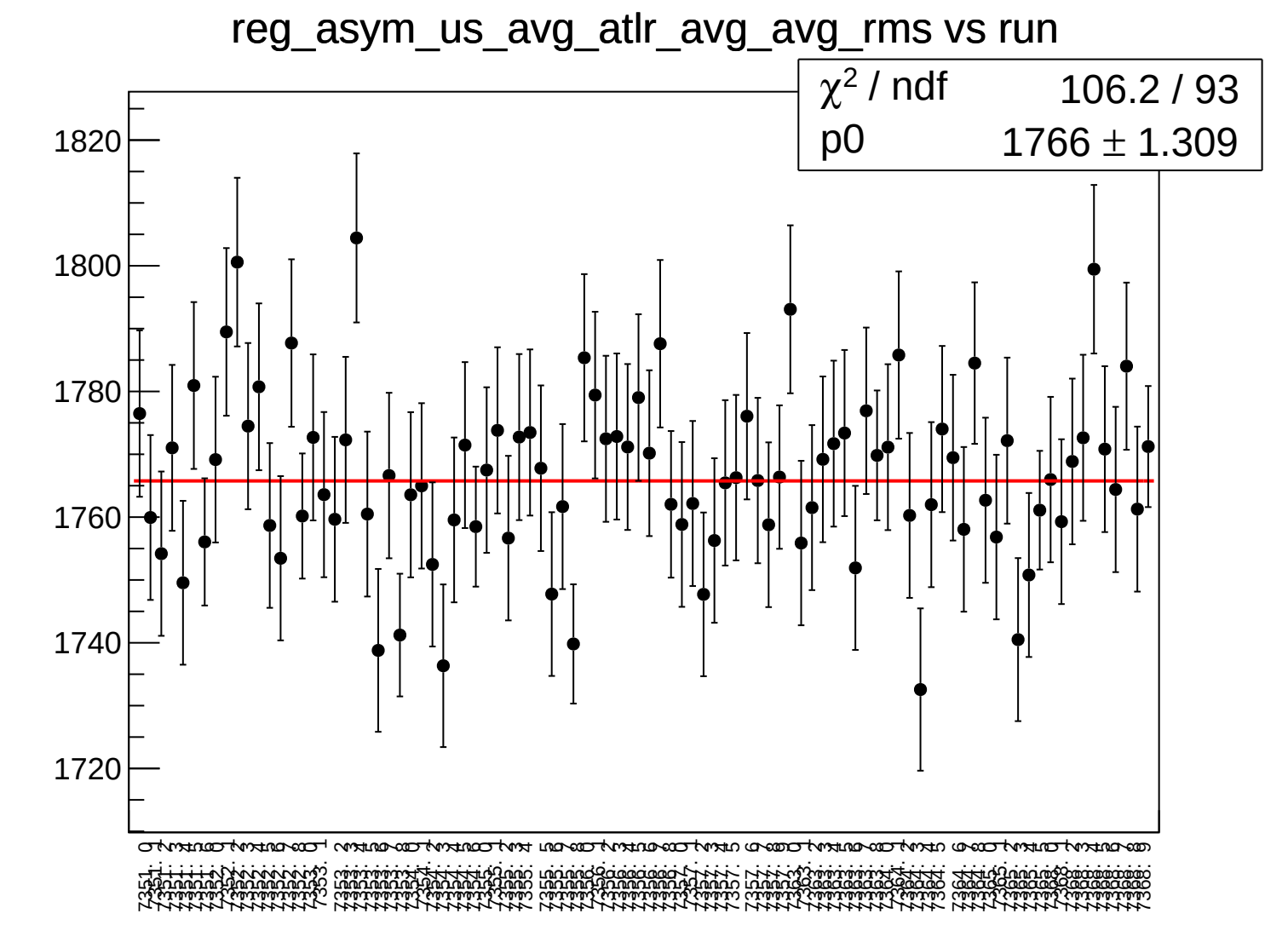

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.975e+04 / 93
p0 1062 ± 0.7989
2200
2000
1800
1600
1400
1200
1000
800

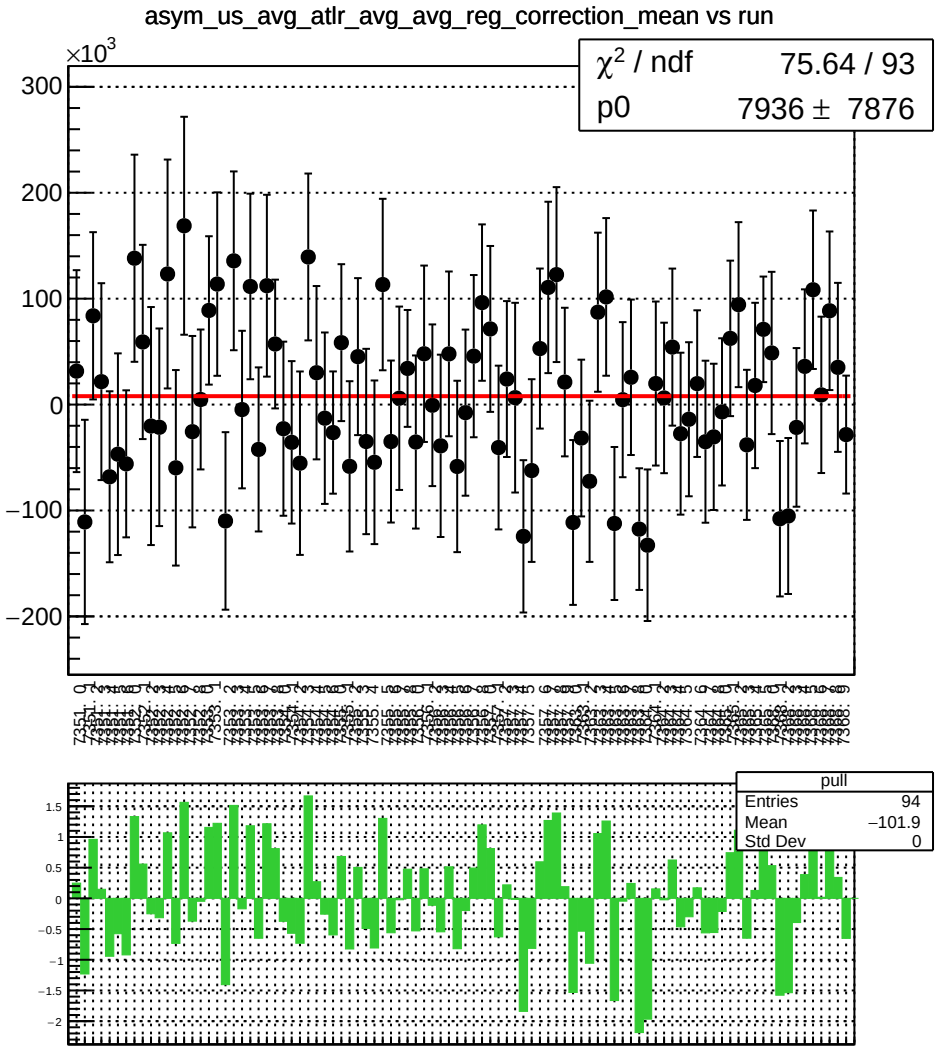

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 107.4 / 93
p0 −8.422e−14 ± 1.158e−13
pull
Entries 94
Mean −245.4
Std Dev 0
pull1D
Entries 94
Mean −0.01563
Std Dev 1.069

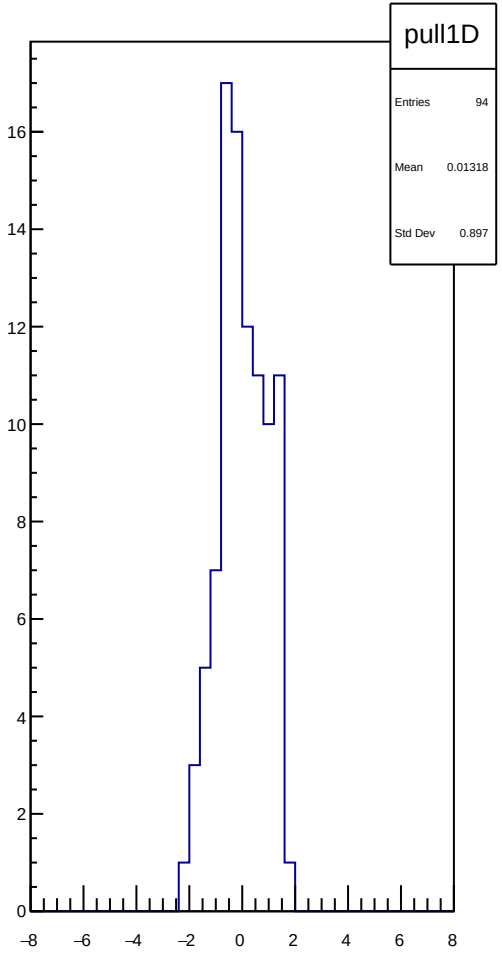

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.59e+05 / 93
p0 9.545e−11 ± 8.186e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

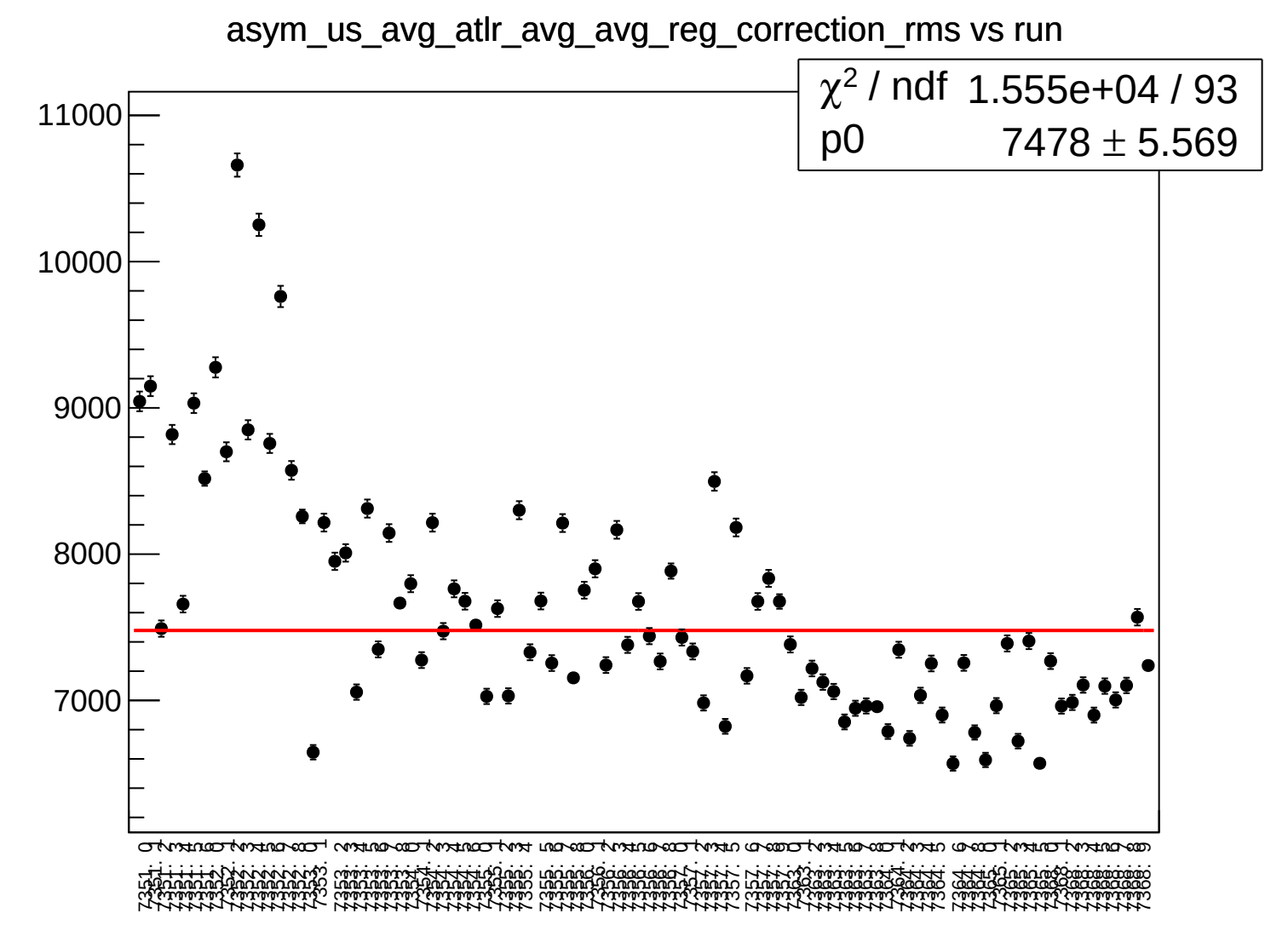

reg_asym_us_avg_atlr_avg_avg_mean vs run
χ^2 / ndf 69.21 / 93
p0 −3485 ± 1852
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean 155.6
Std Dev 0
2
1
0
−1
−2
−3

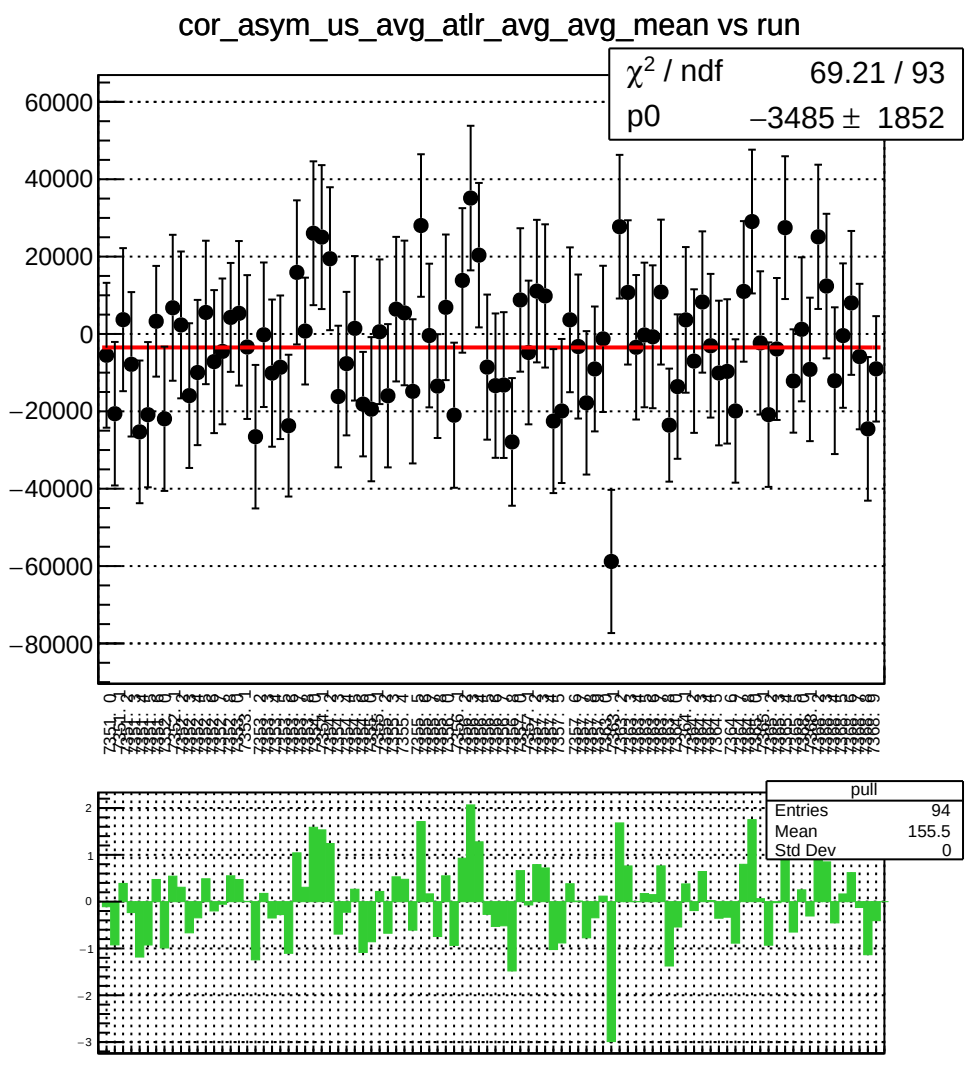

pull1D
Entries 94
Mean 0.01359
Std Dev 0.858
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

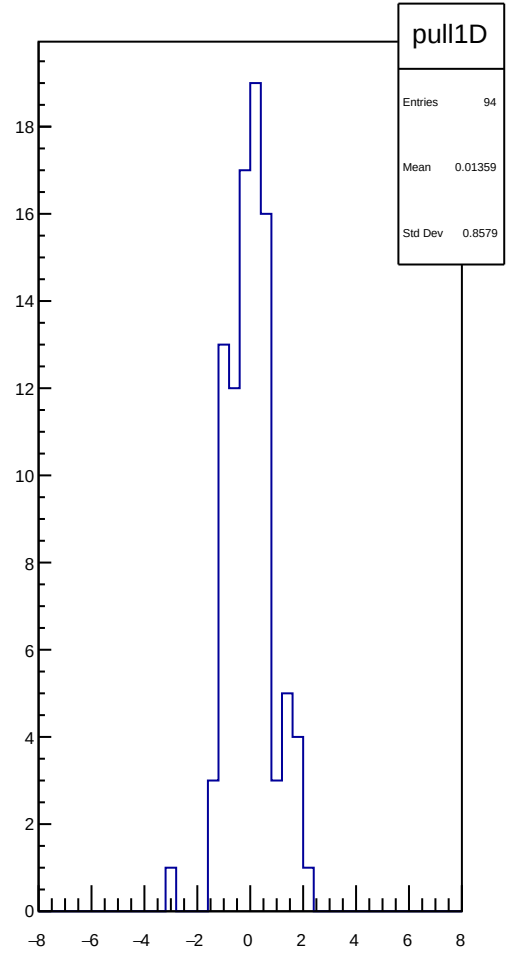

reg_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 106.2 / 93
p0 1766 ± 1.309
1820
1800
1780
1760
1740
1720

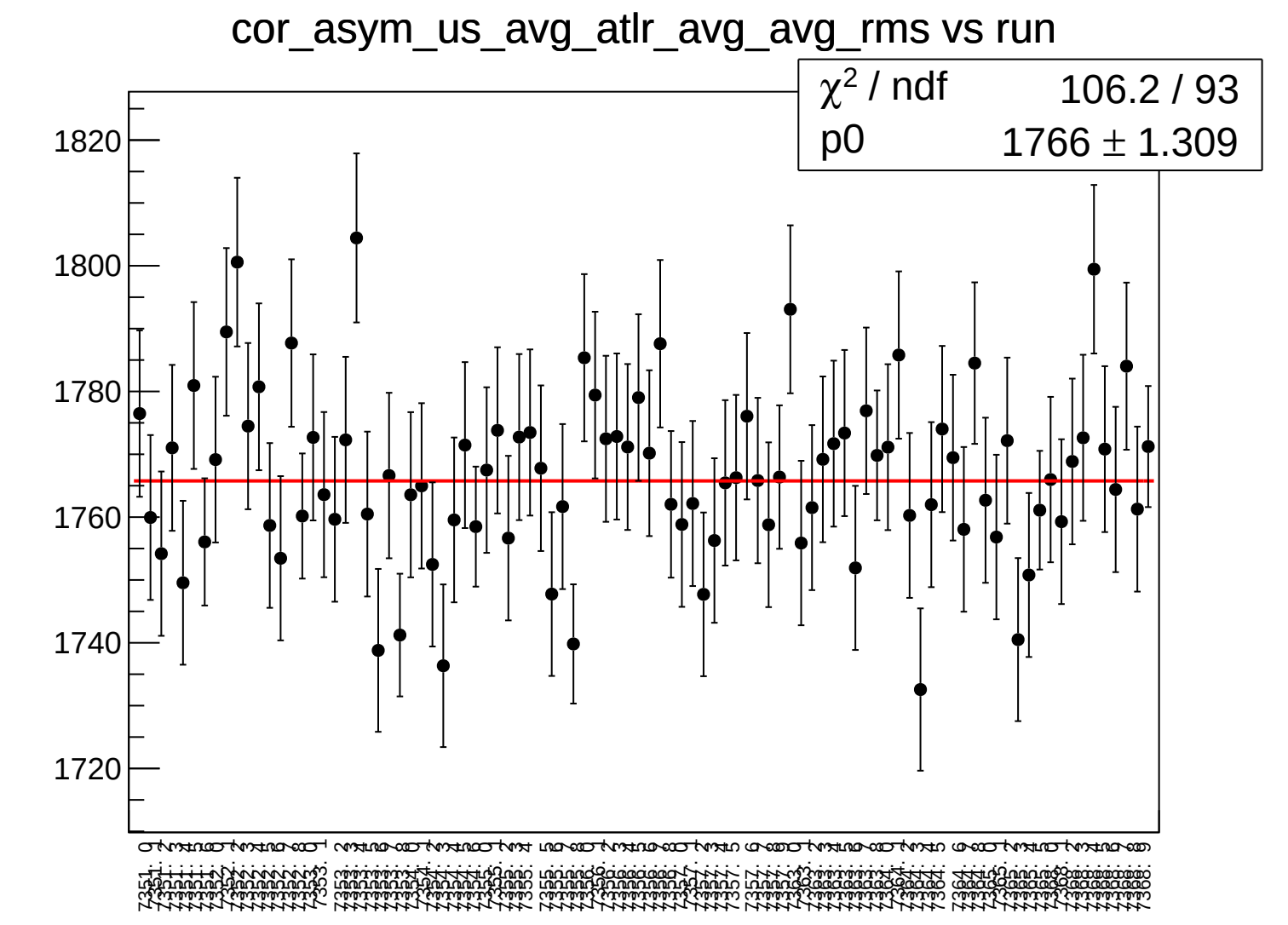

asym_us_avg_atlr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 75.64 / 93
p0 7936 ± 7876
300
200
100
0
−100
−200
pull
Entries 94
Mean −101.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

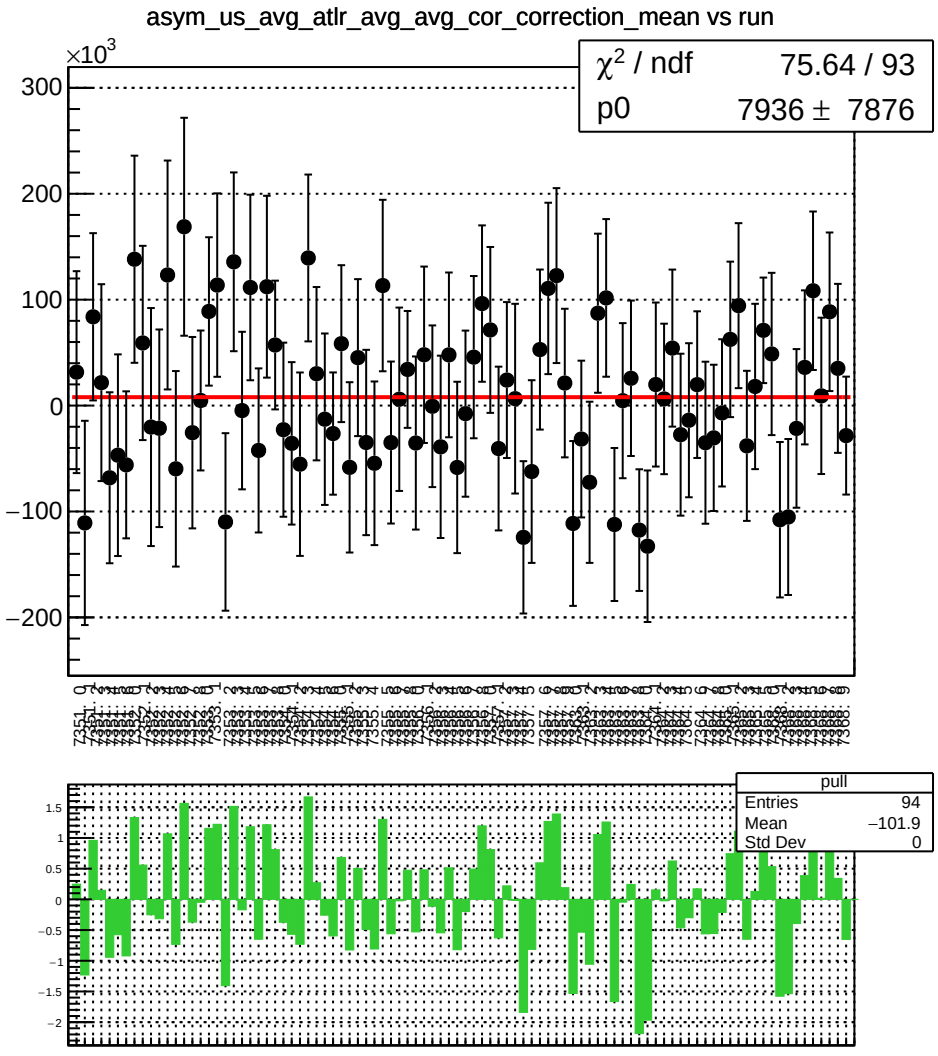

pull1D
Entries 94
Mean 0.01318
Std Dev 0.897
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

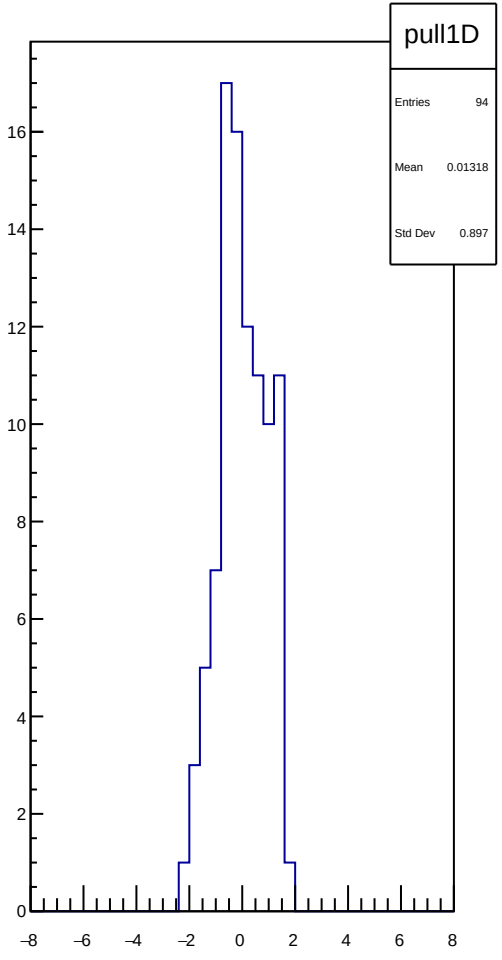

asym_us_avg_atlr_avg_avg_reg_correction_rms vs run
χ^2 / ndf 1.555e+04 / 93
p0 7478 ± 5.569
11000
10000
9000
8000
7000

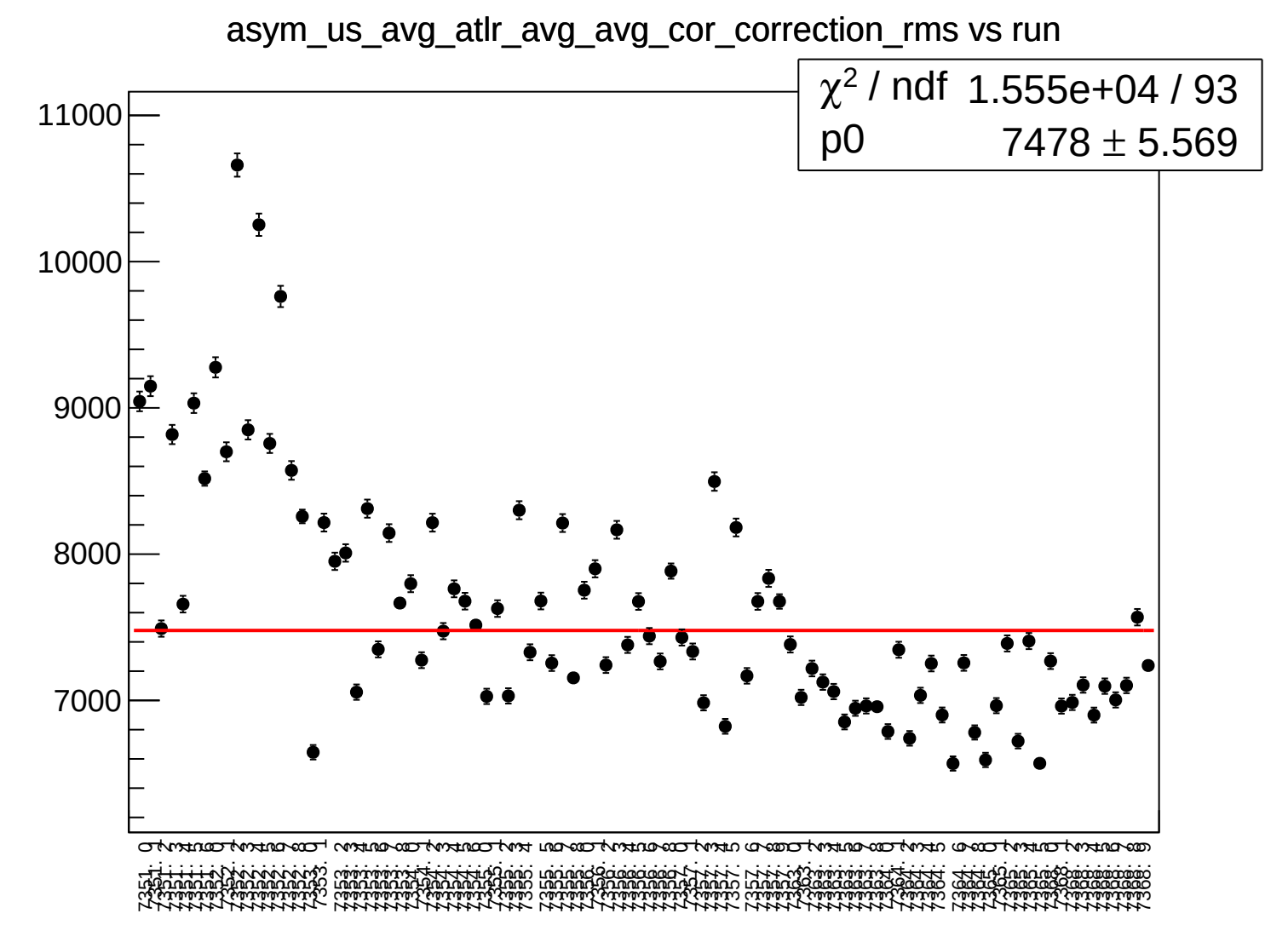

cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 69.21 / 93
p0 −3485 ± 1852
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean 155.5
Std Dev 0
2
1
0
−1
−2
−3

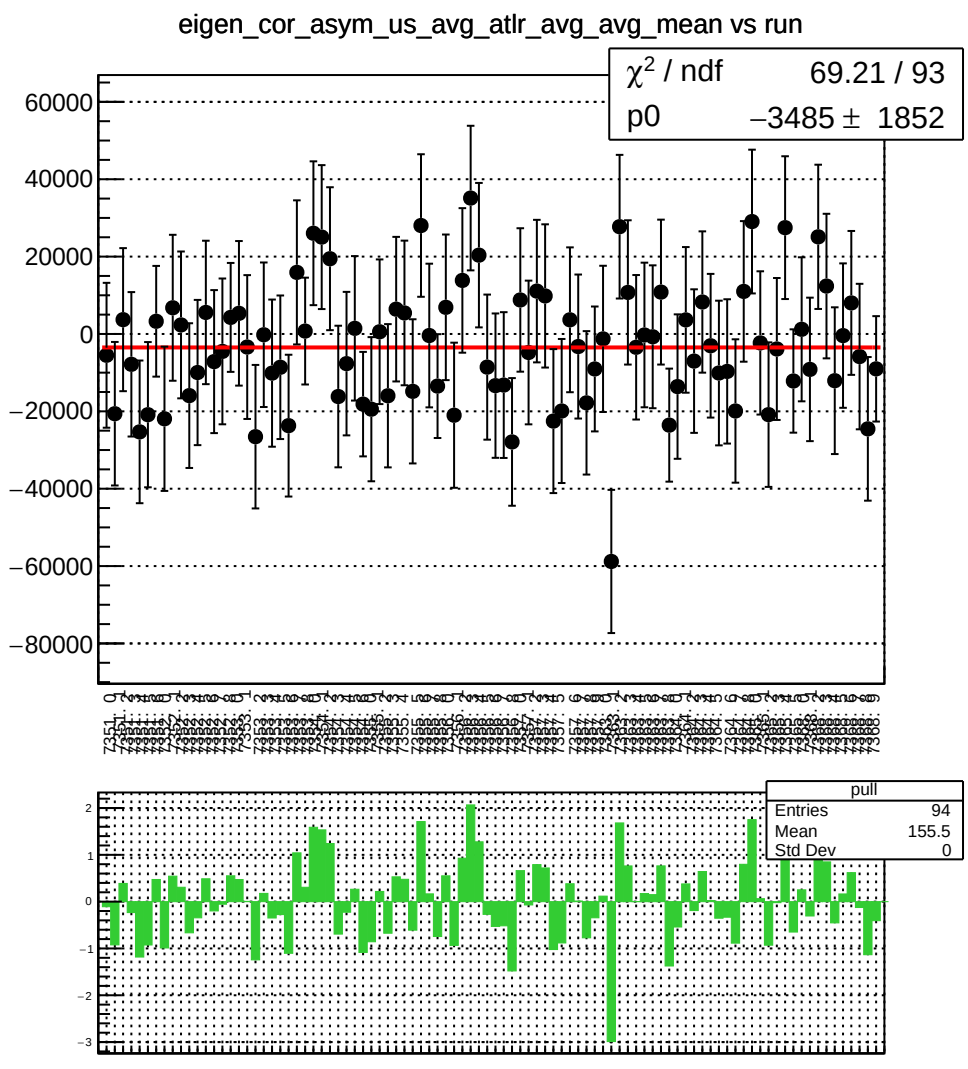

pull1D
Entries 94
Mean 0.01359
Std Dev 0.8579
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

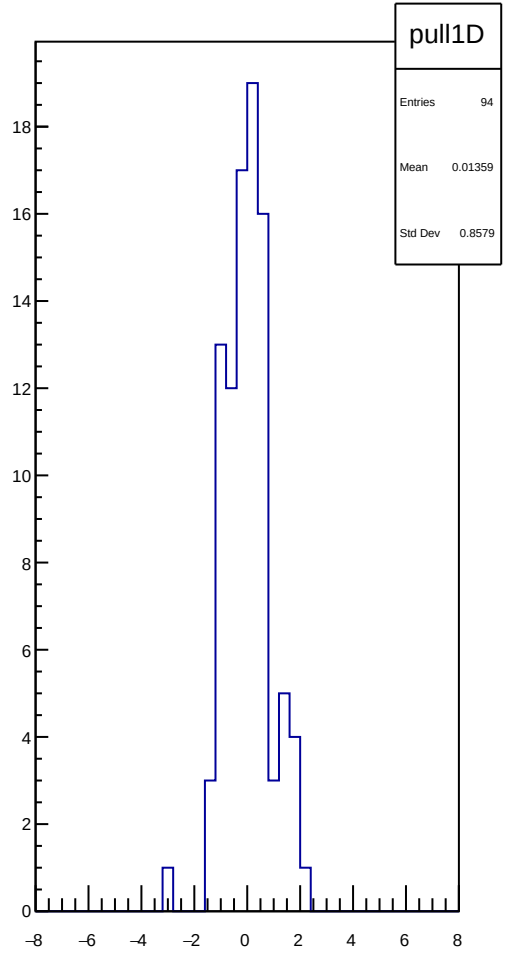

cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 106.2 / 93
p0 1766 ± 1.309
1820
1800
1780
1760
1740
1720

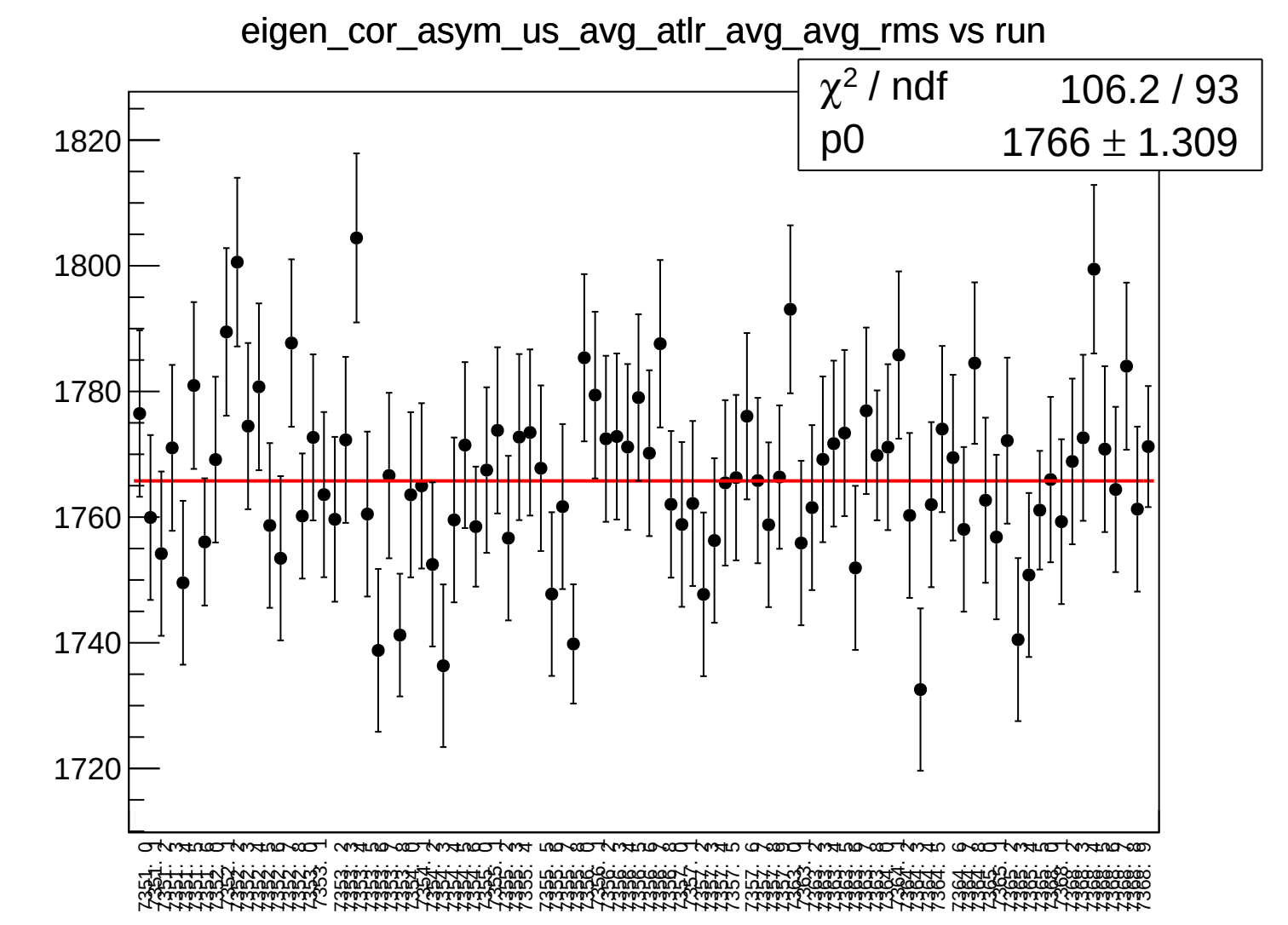

asym_us_avg_atlr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 75.64 / 93
p0 7936 ± 7876
300
200
100
0
−100
−200
pull
Entries 94
Mean −101.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

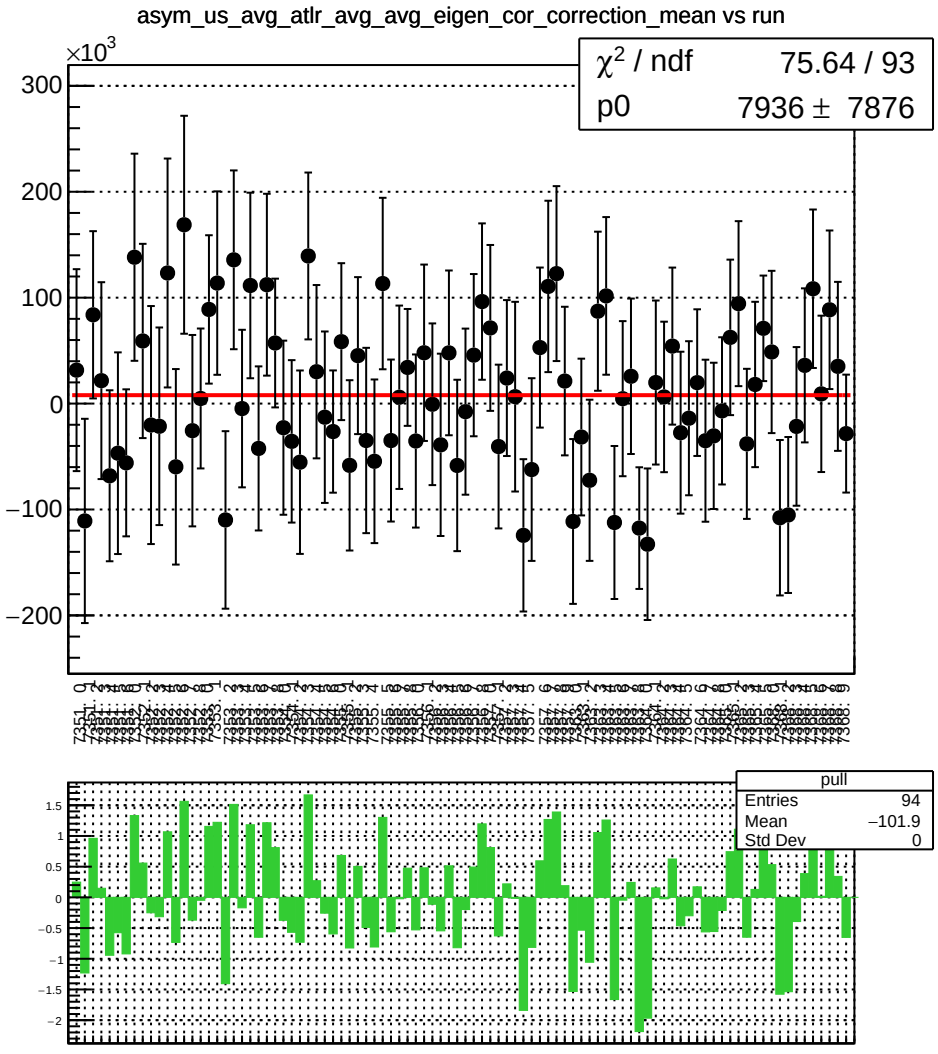

pull1D
Entries 94
Mean 0.01318
Std Dev 0.897
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

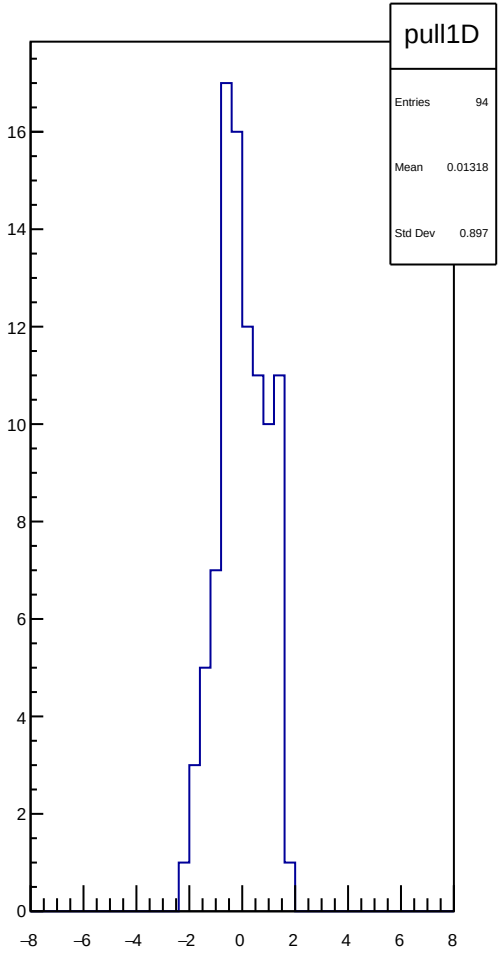

asym_us_avg_atlr_avg_avg_cor_correction_rms vs run
χ^2 / ndf 1.555e+04 / 93
p0 7478 ± 5.569
11000
10000
9000
8000
7000

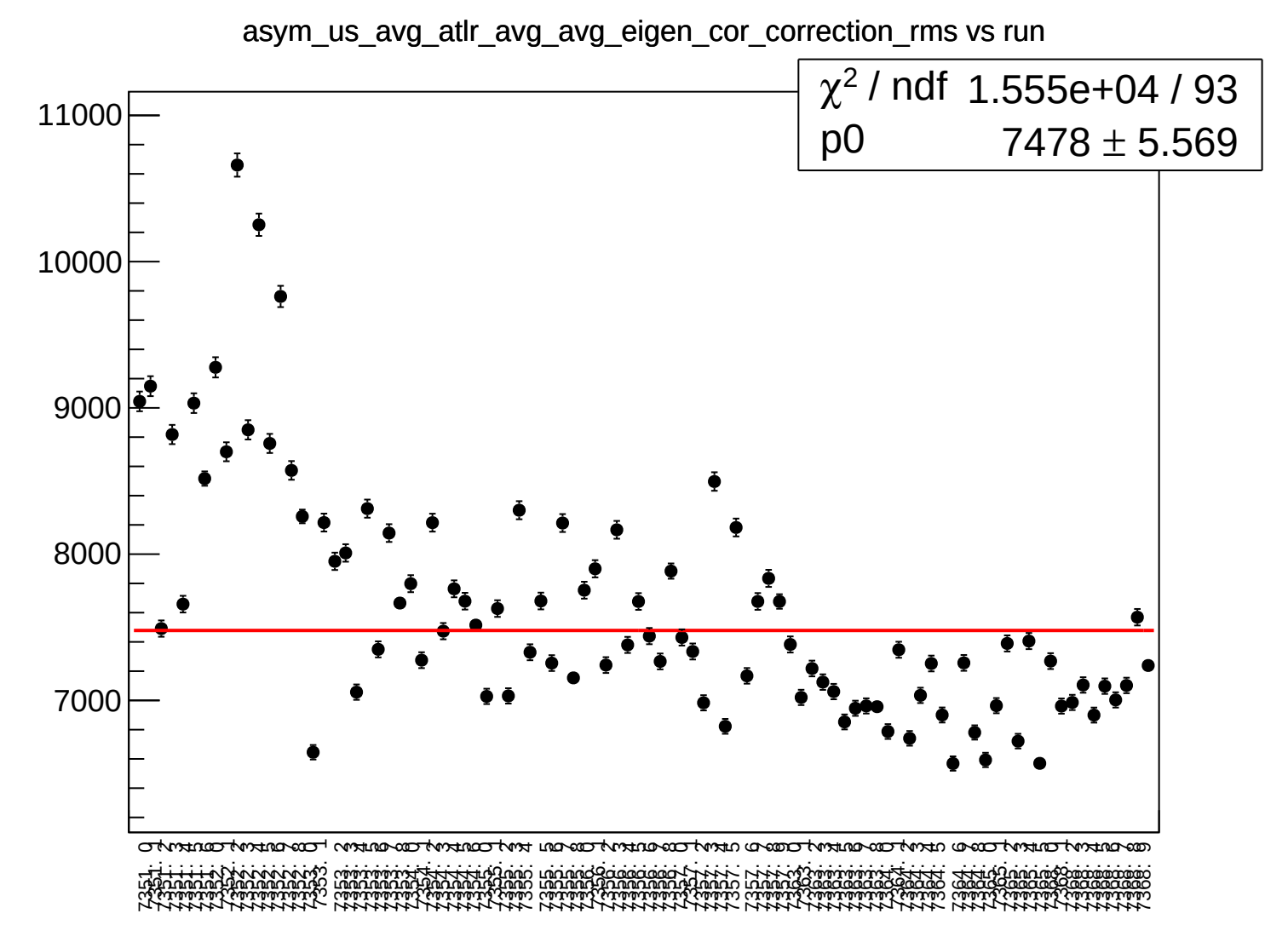

eigen_cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 69.21 / 93
p0 −3485 ± 1852
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean 155.5
Std Dev 0
2
1
0
−1
−2
−3

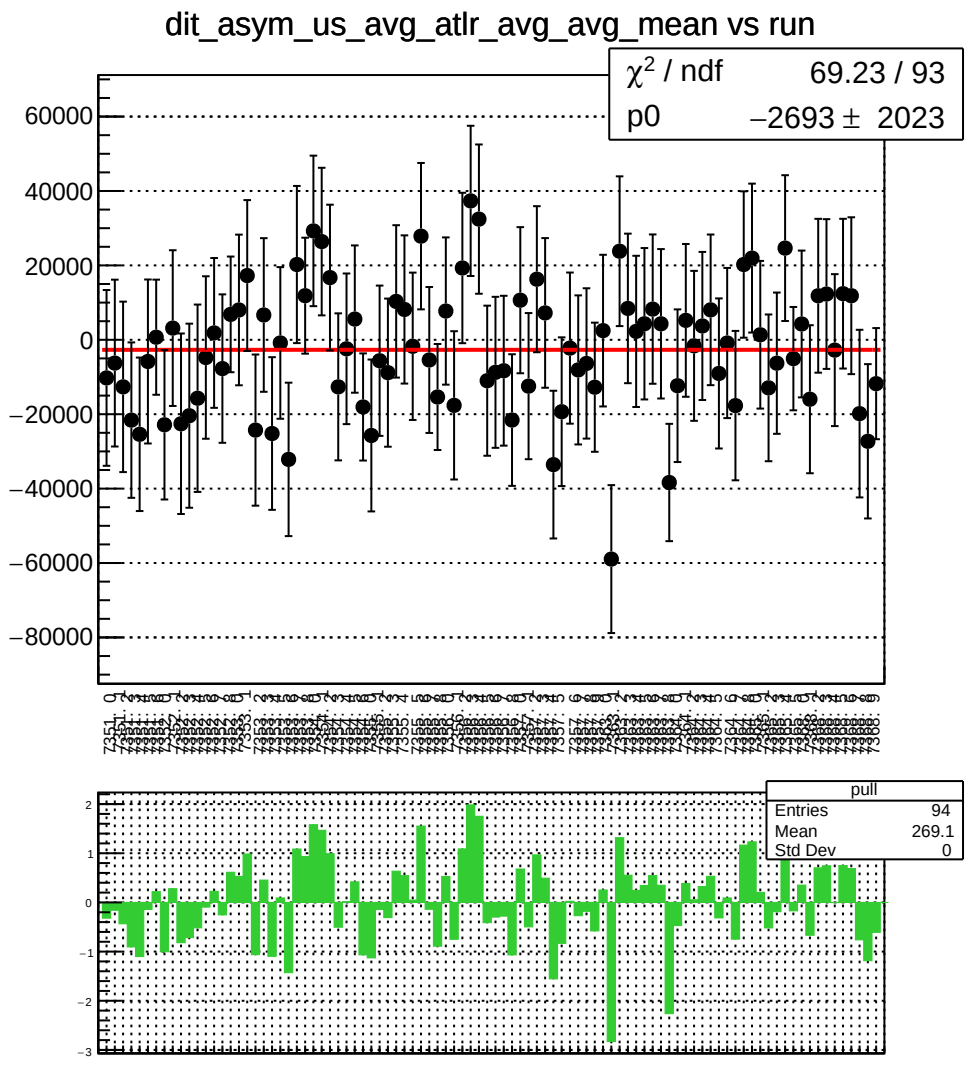

pull1D
Entries 94
Mean 0.01359
Std Dev 0.8579
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

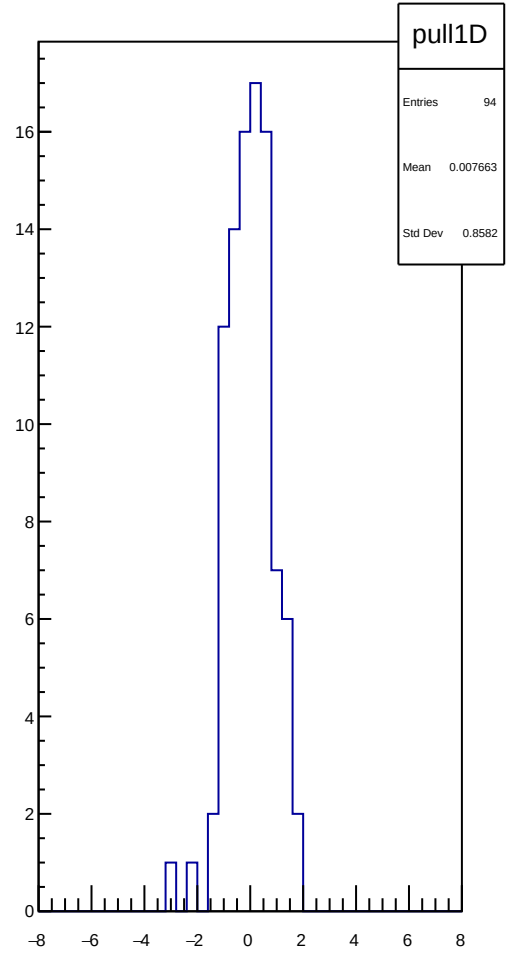

eigen_cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 106.2 / 93
p0 1766 ± 1.309
1820
1800
1780
1760
1740
1720

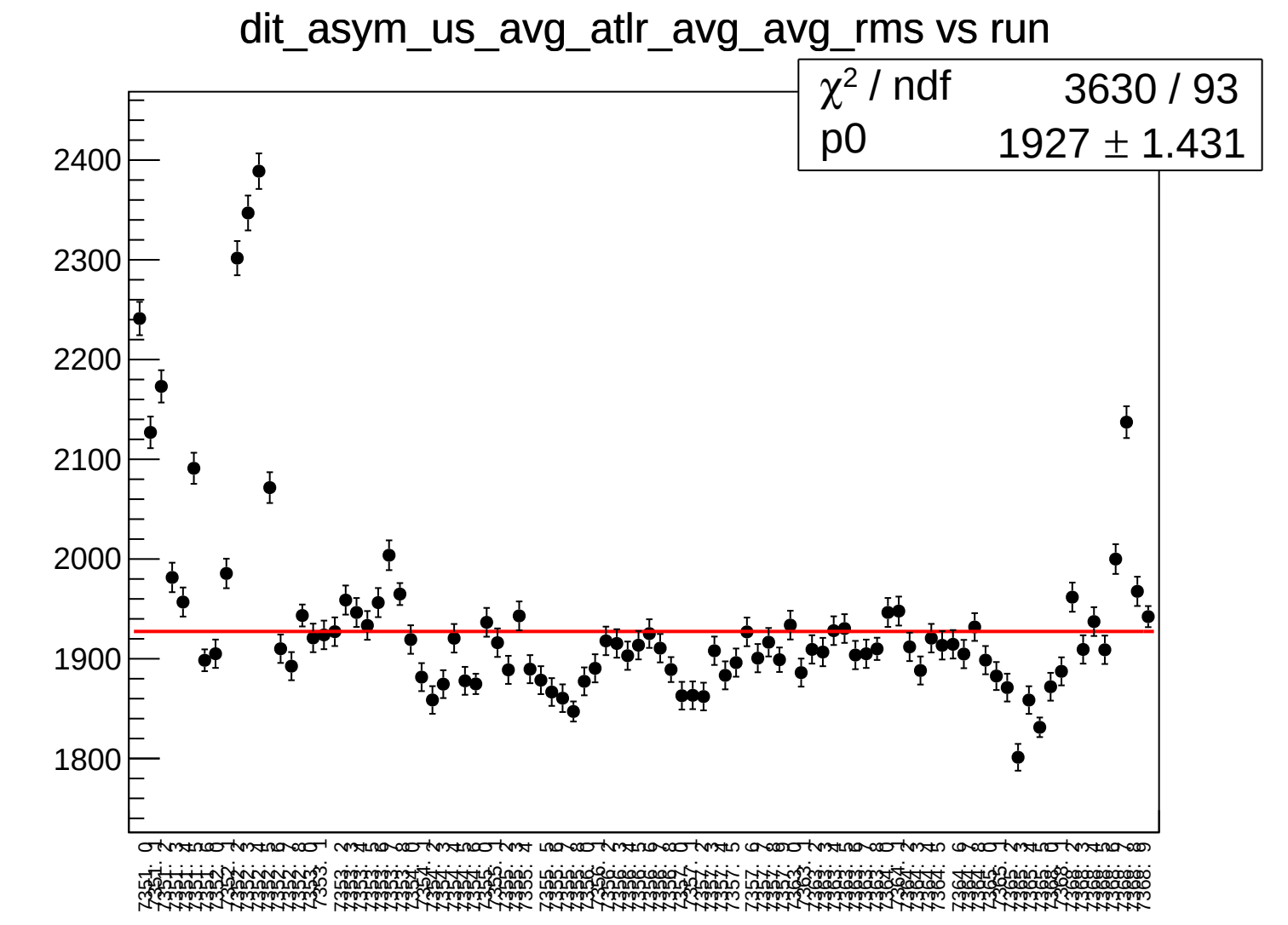

asym_us_avg_atlr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 75.64 / 93
p0 7936 ± 7876
300
200
100
0
−100
−200
pull
Entries 94
Mean −101.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

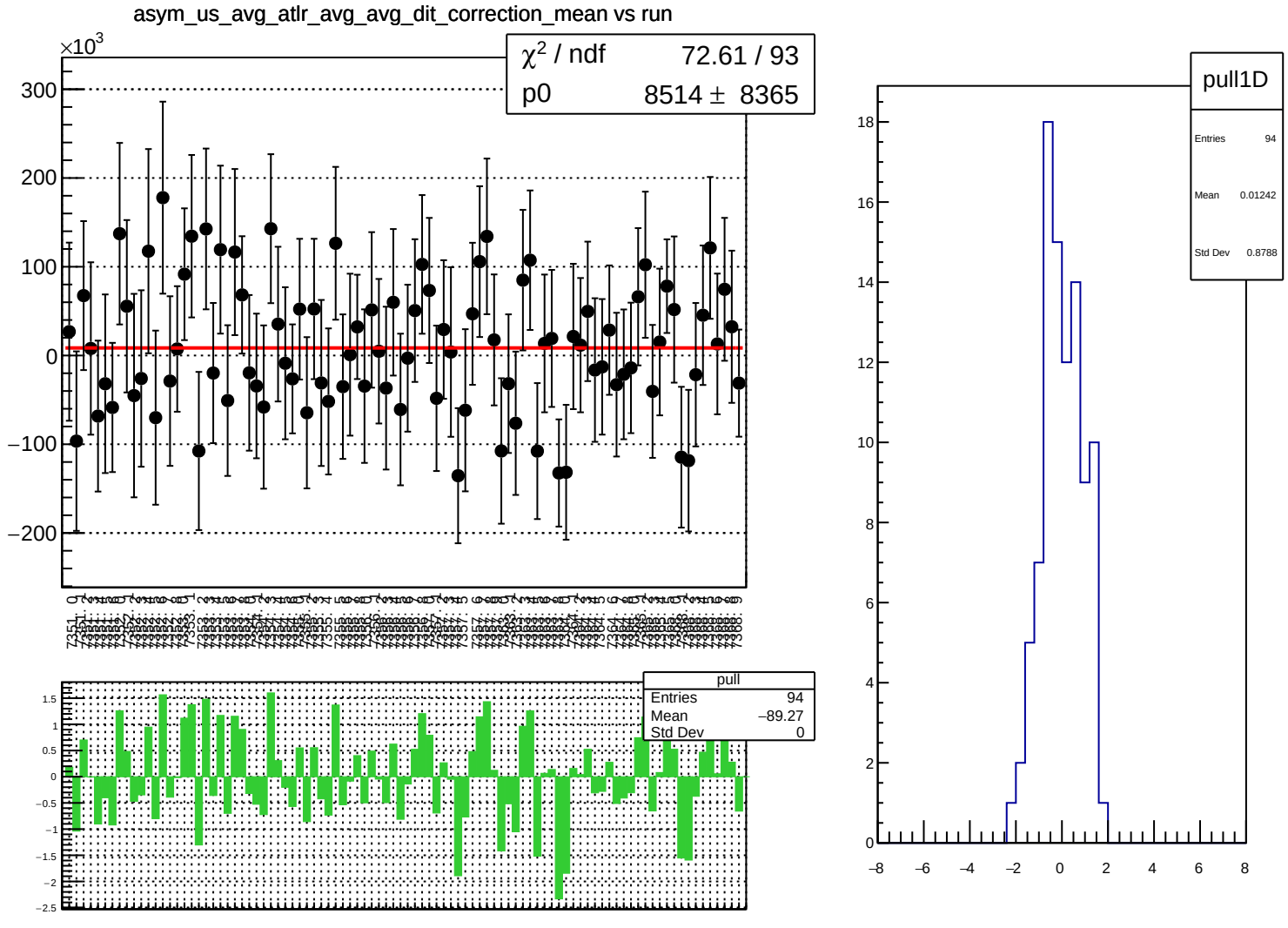

pull1D
Entries 94
Mean 0.01318
Std Dev 0.897
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

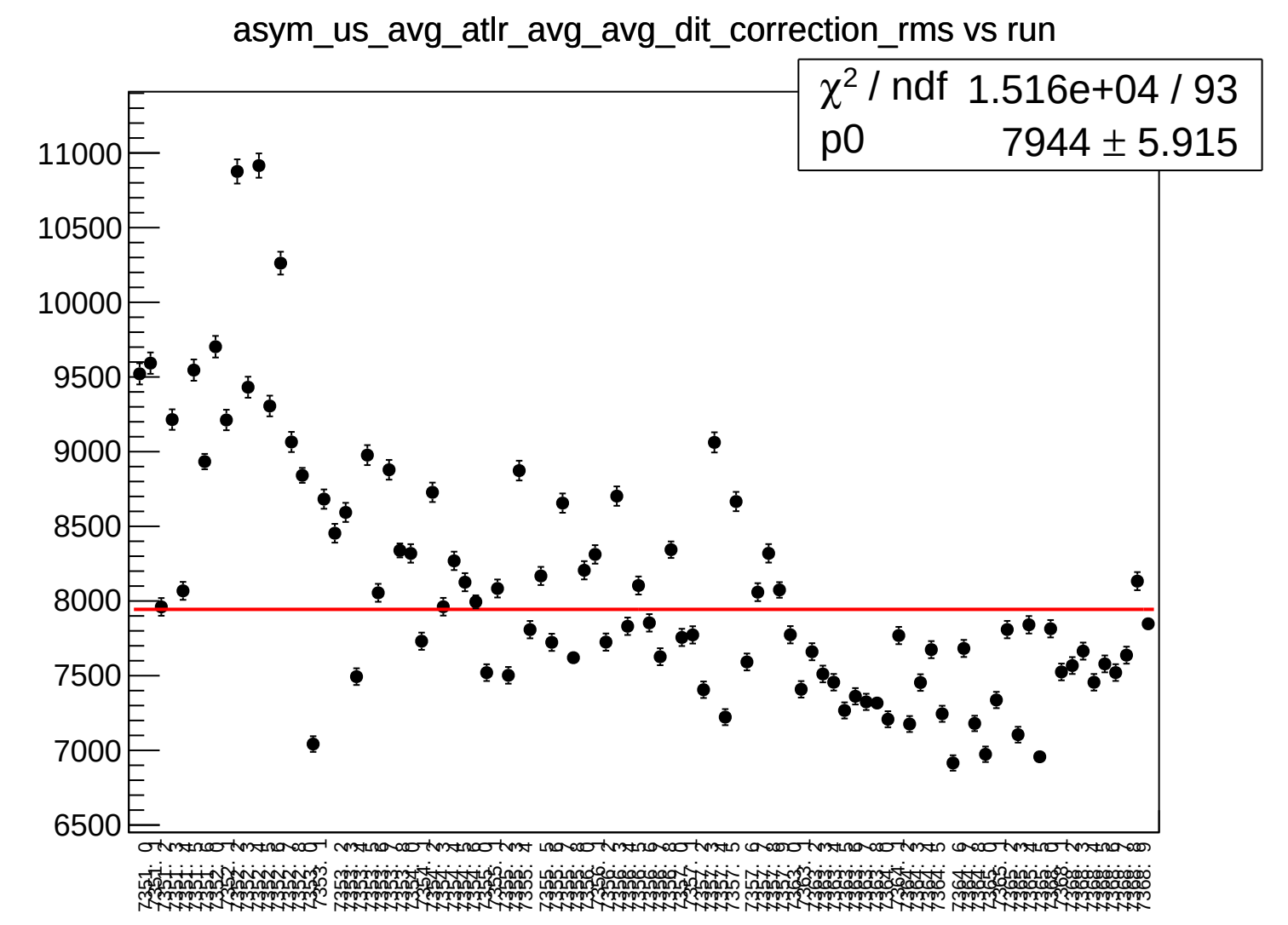

asym_us_avg_atlr_avg_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 1.555e+04 / 93
p0 7478 ± 5.569
11000
10000
9000
8000
7000

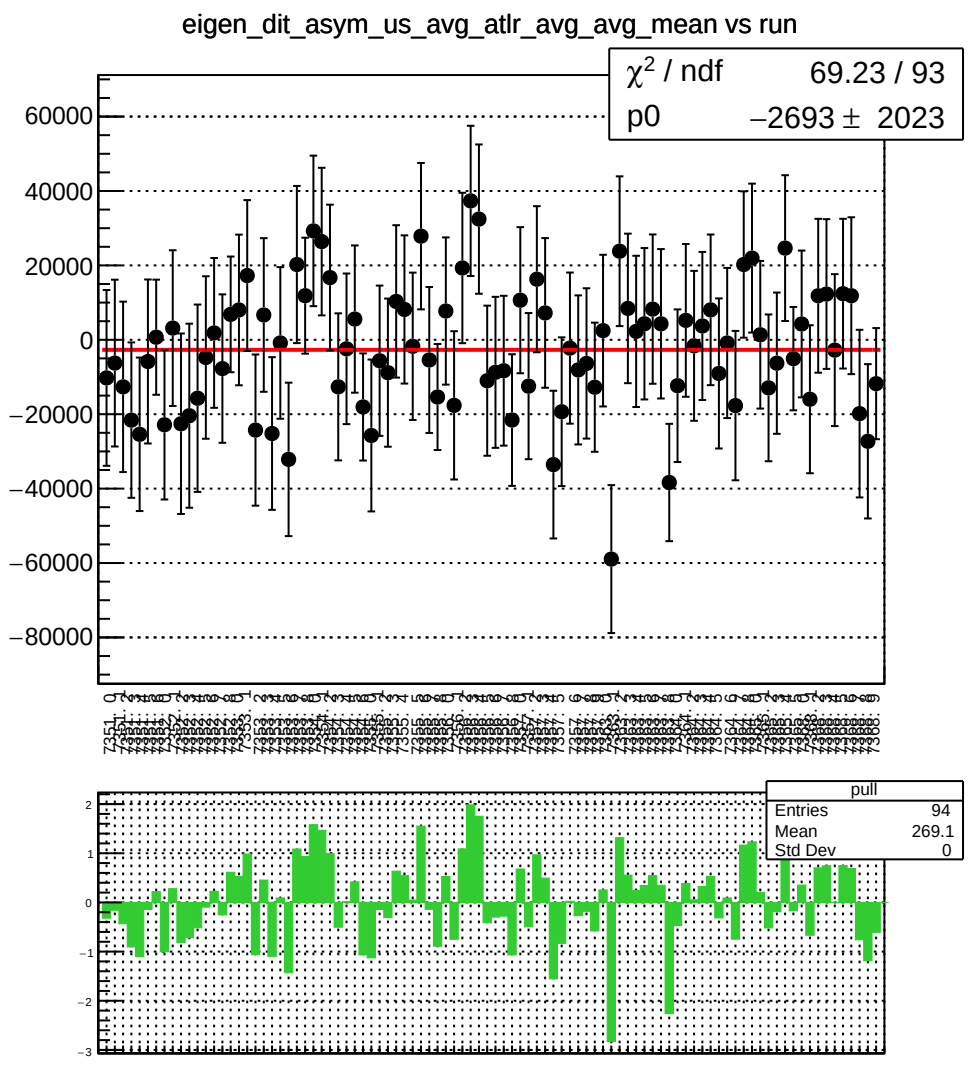

dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 69.23 / 93
p0 −2693 ± 2023
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean 269.1
Std Dev 0
2
1
0
−1
−2
−3

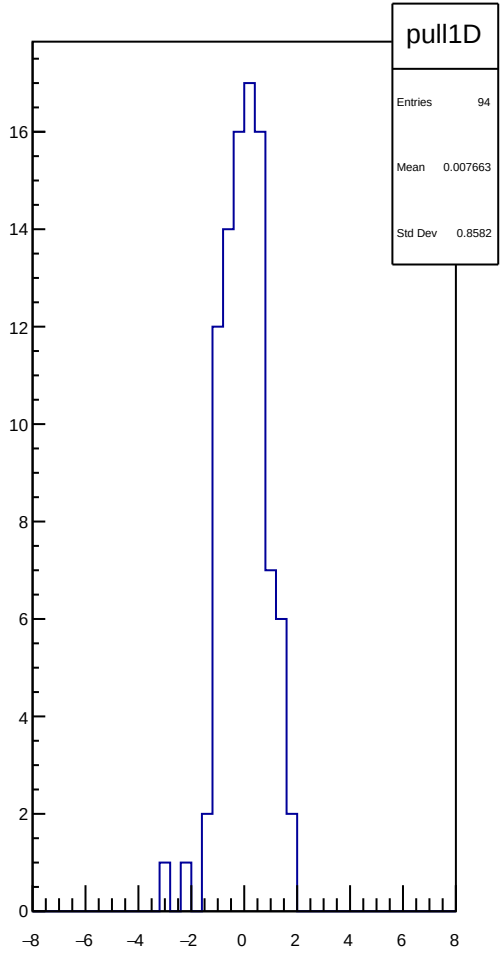

pull1D
Entries 94
Mean 0.007663
Std Dev 0.8582
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

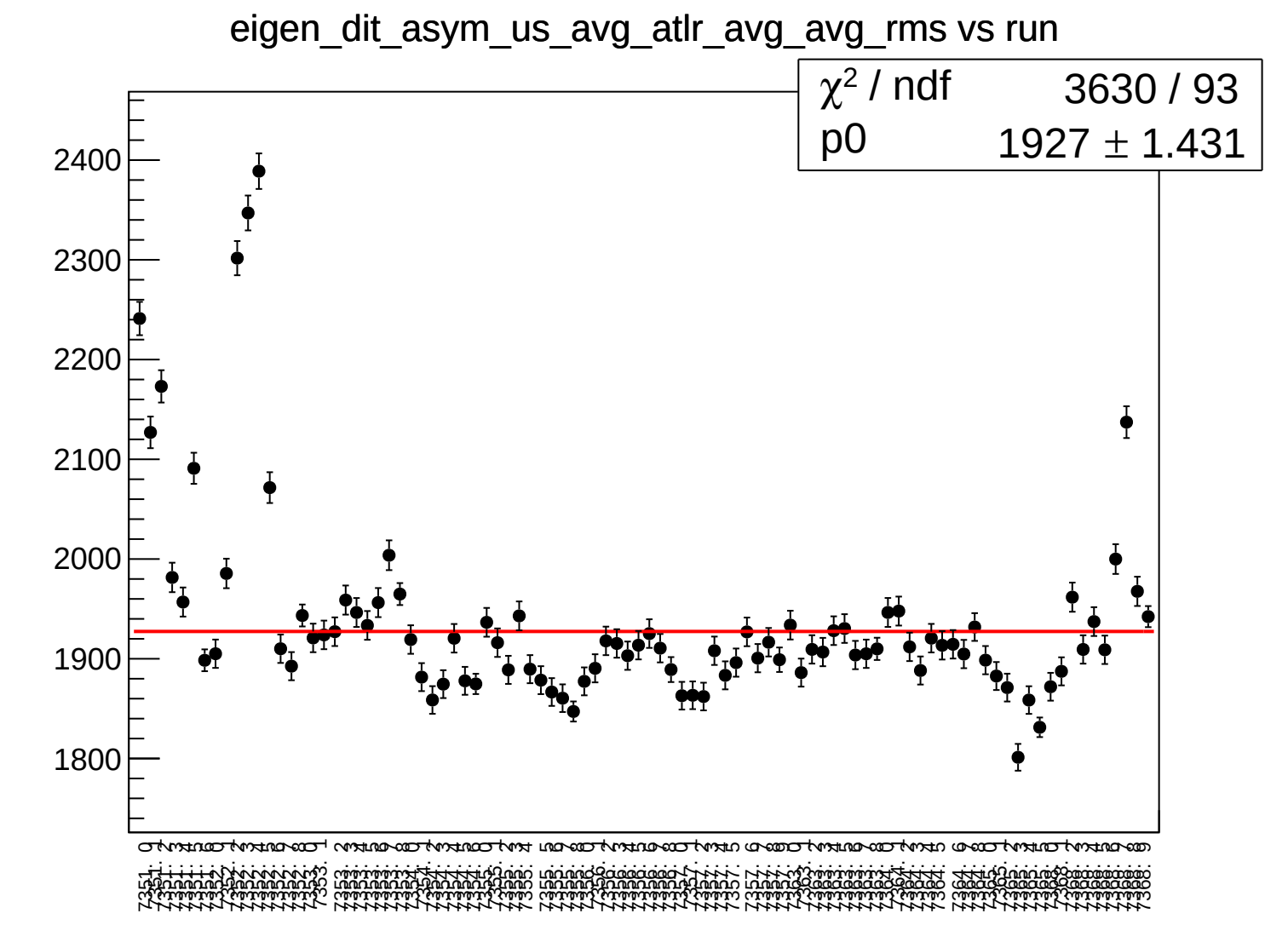

dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 3630 / 93
p0 1927 ± 1.431
2400
2300
2200
2100
2000
1900
1800

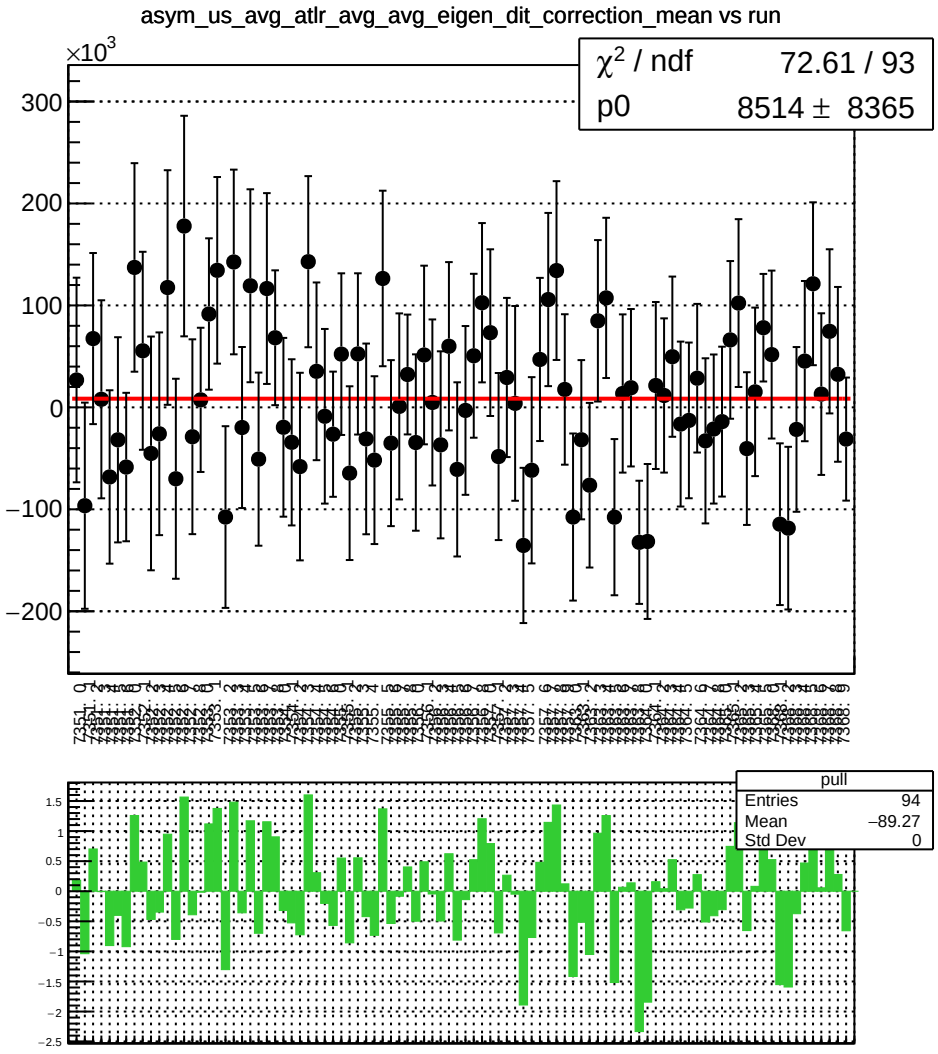

asym_us_avg_atlr_avg_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 72.61 / 93
p0 8514 ± 8365
300
200
100
0
−100
−200
pull
Entries 94
Mean −89.27
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 94
Mean 0.01242
Std Dev 0.8788
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

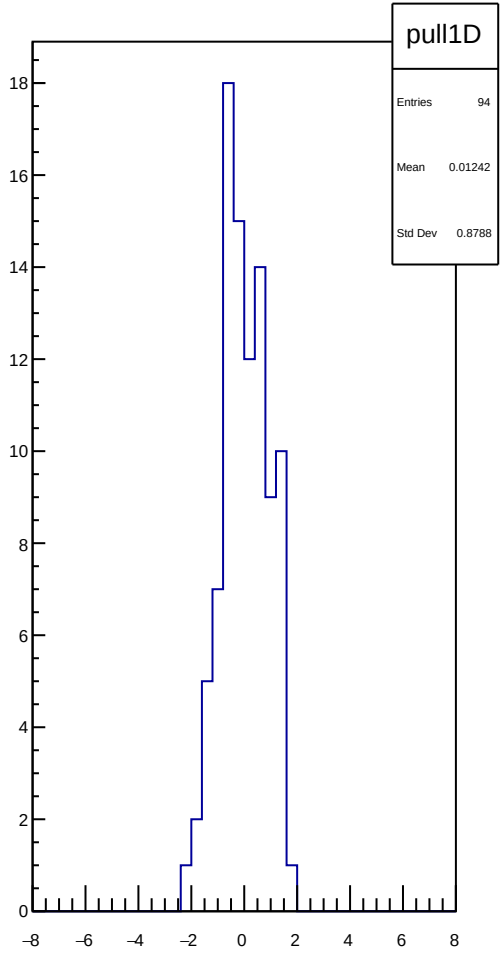

asym_us_avg_atlr_avg_avg_dit_correction_rms vs run
χ^2 / ndf 1.516e+04 / 93
p0 7944 ± 5.915
11000
10500
10000
9500
9000
8500
8000
7500
7000
6500

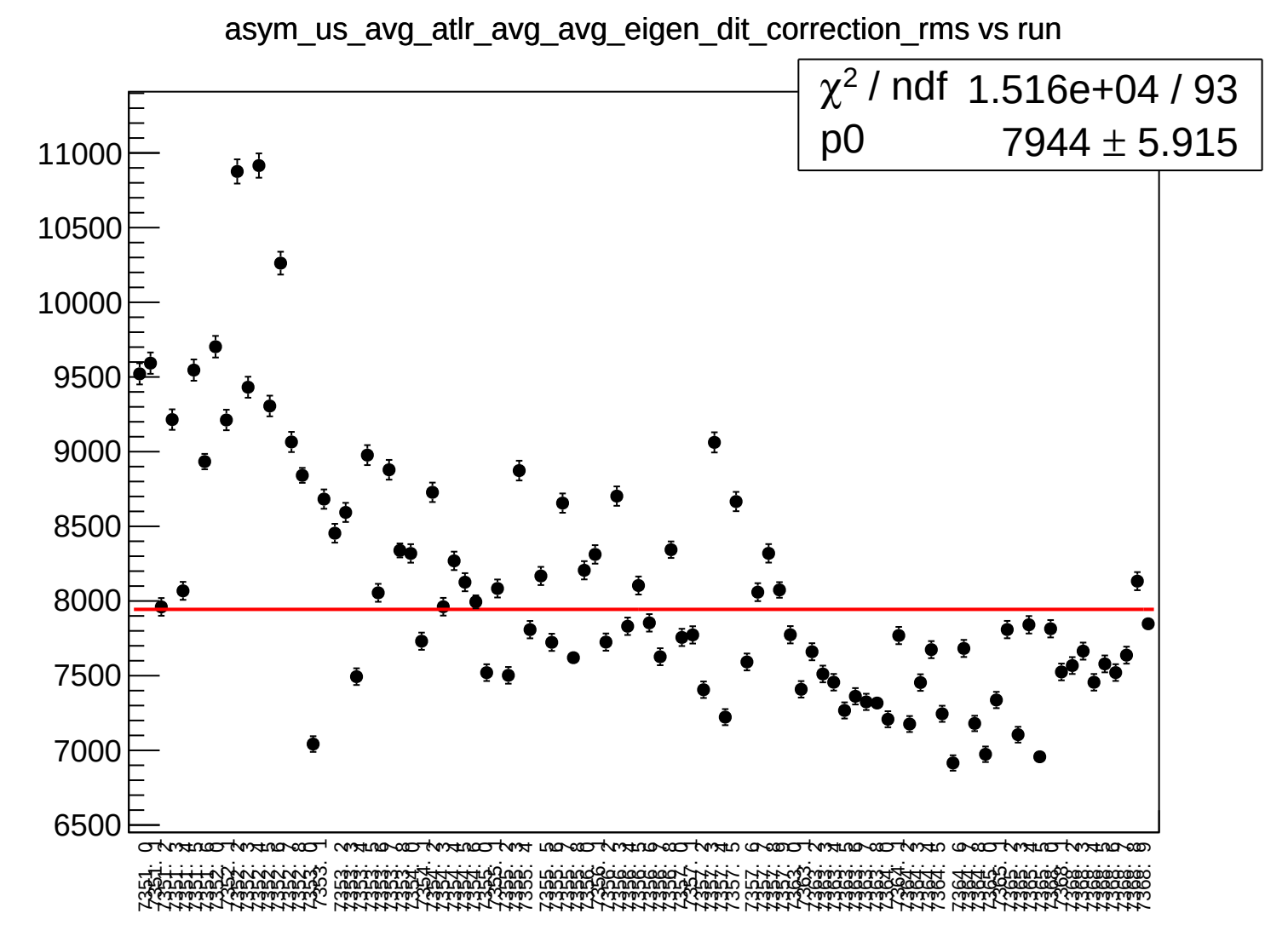

eigen_dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 69.23 / 93
p0 −2693 ± 2023
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean 269.1
Std Dev 0
2
1
0
−1
−2
−3

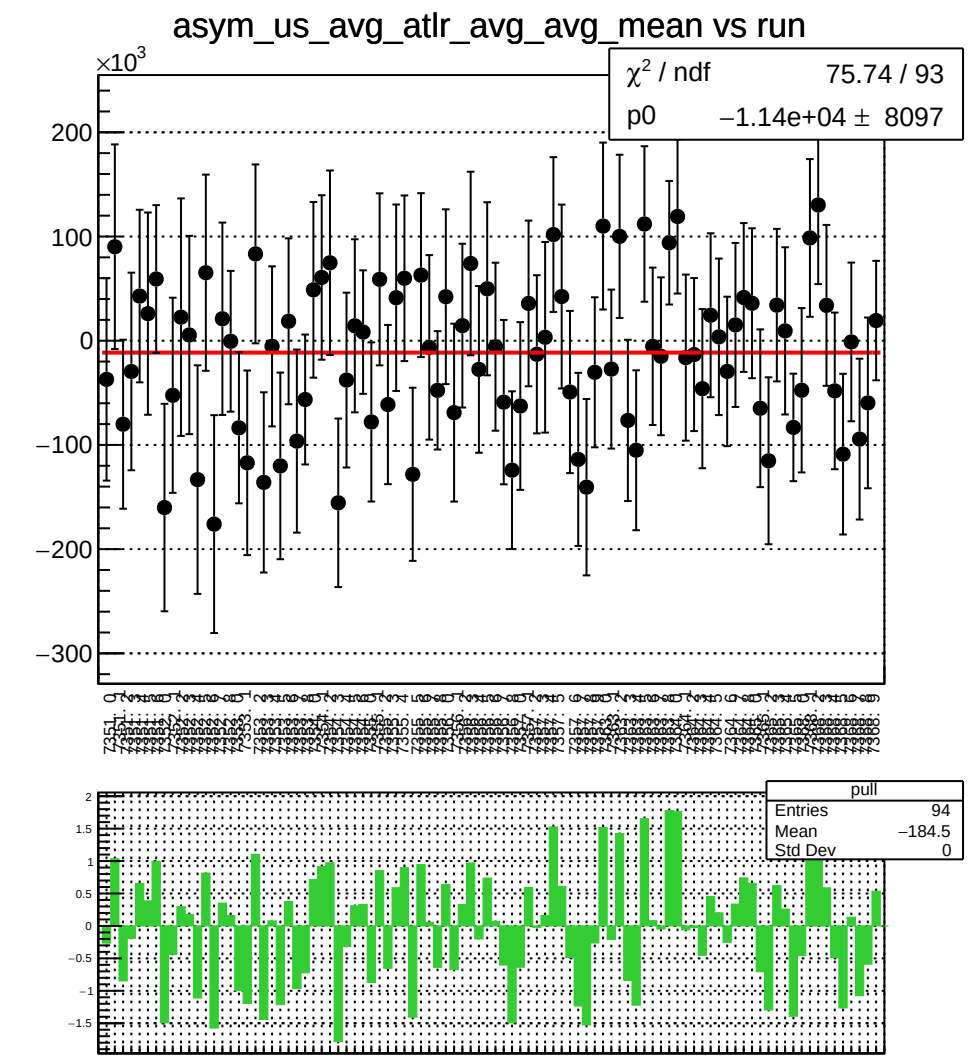

pull1D
Entries 94
Mean 0.007663
Std Dev 0.8582
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

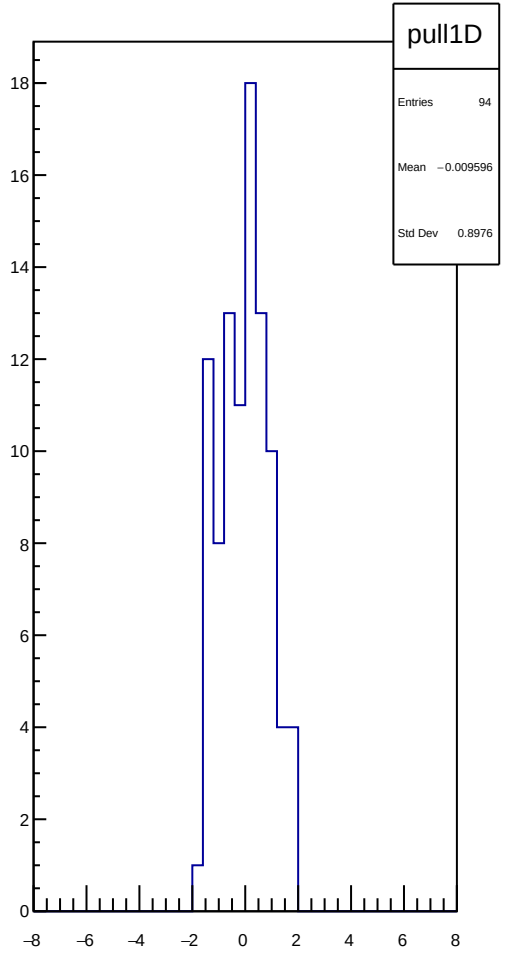

eigen_dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 3630 / 93
p0 1927 ± 1.431
2400
2300
2200
2100
2000
1900
1800

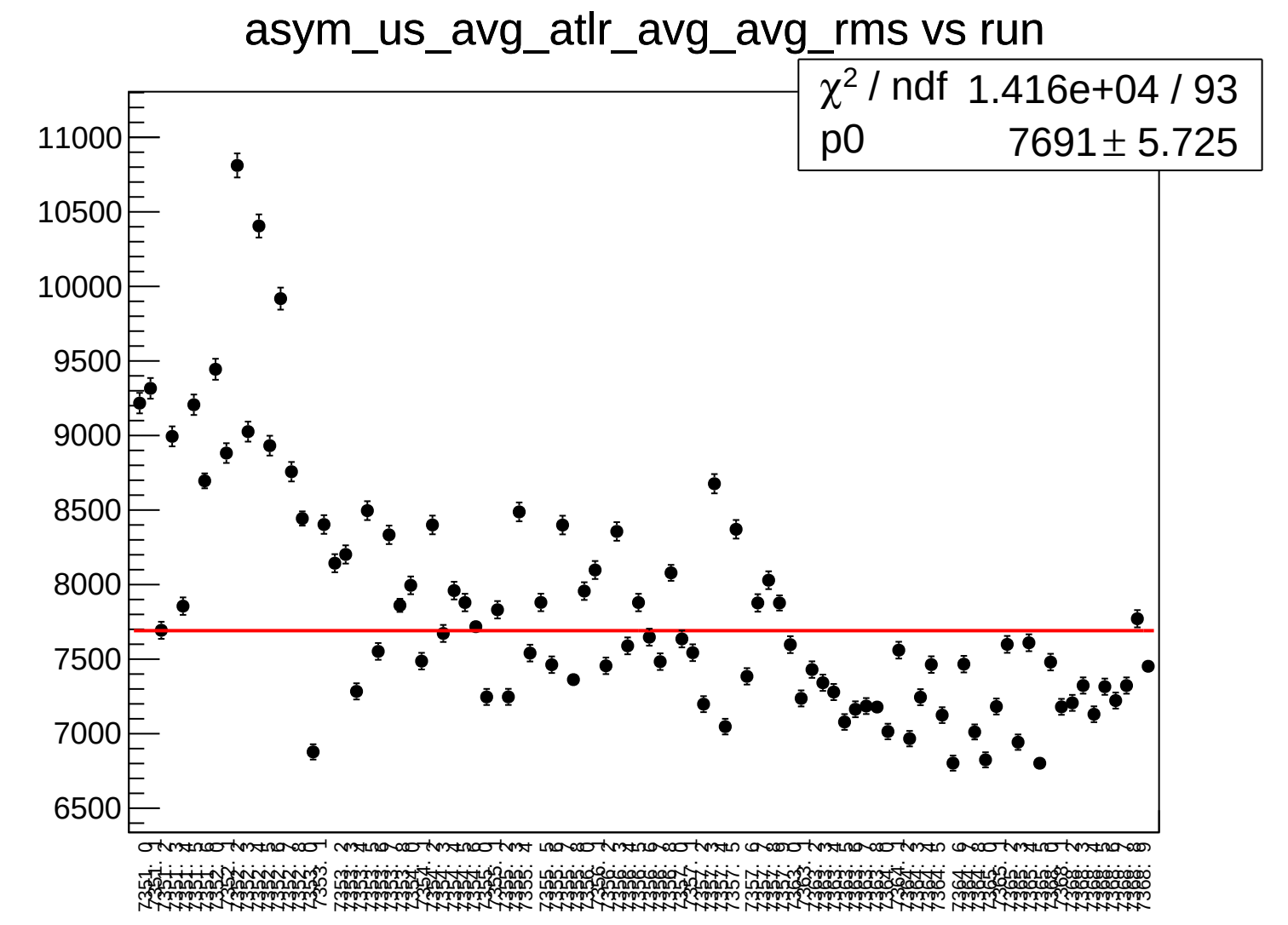

asym_us_avg_atlr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 72.61 / 93
p0 8514 ± 8365
300
200
100
0
−100
−200
pull
Entries 94
Mean −89.27
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

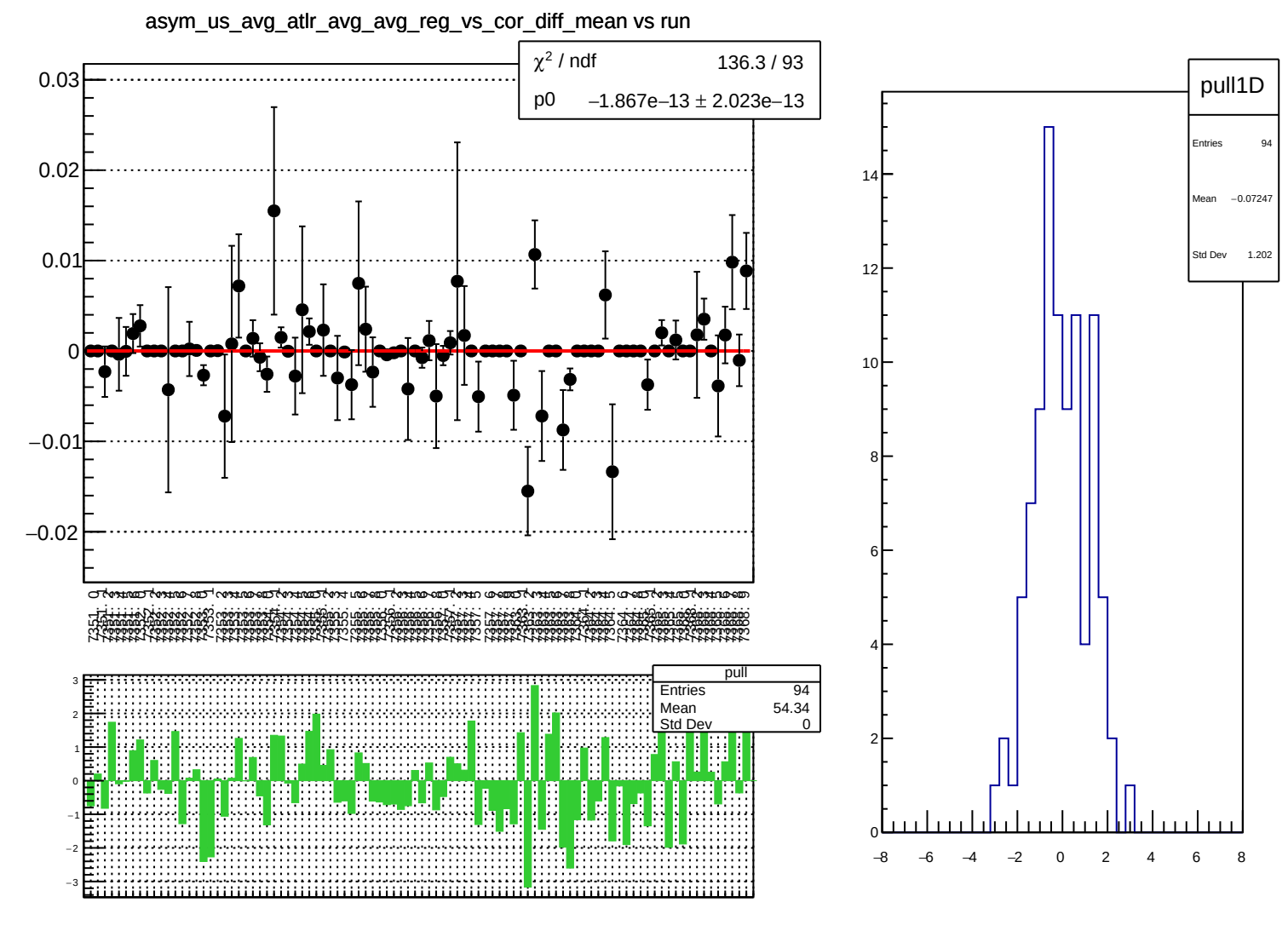

pull1D
Entries 94
Mean 0.01242
Std Dev 0.8788
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

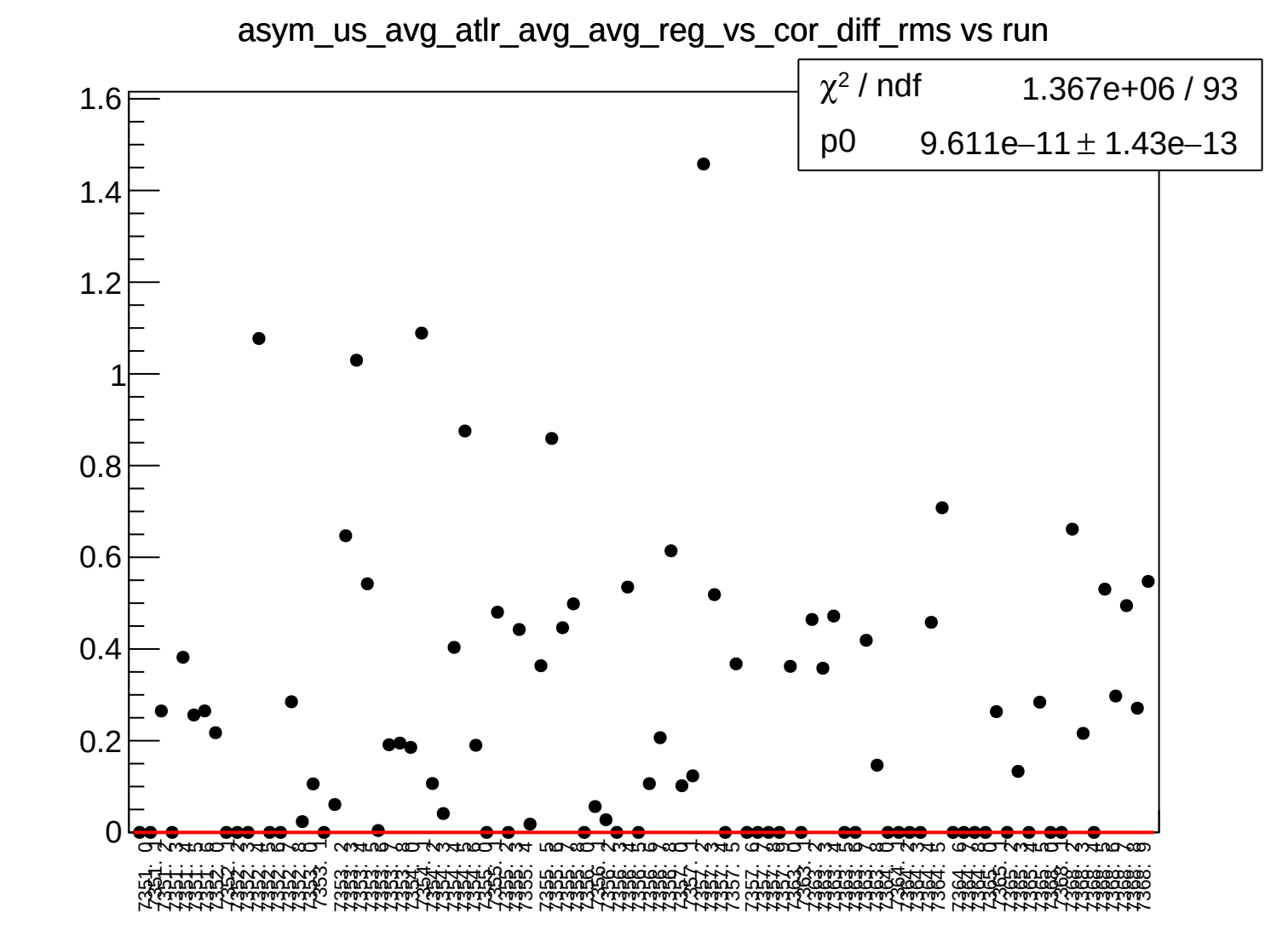

asym_us_avg_atlr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.516e+04 / 93
p0 7944 ± 5.915
11000
10500
10000
9500
9000
8500
8000
7500
7000
6500

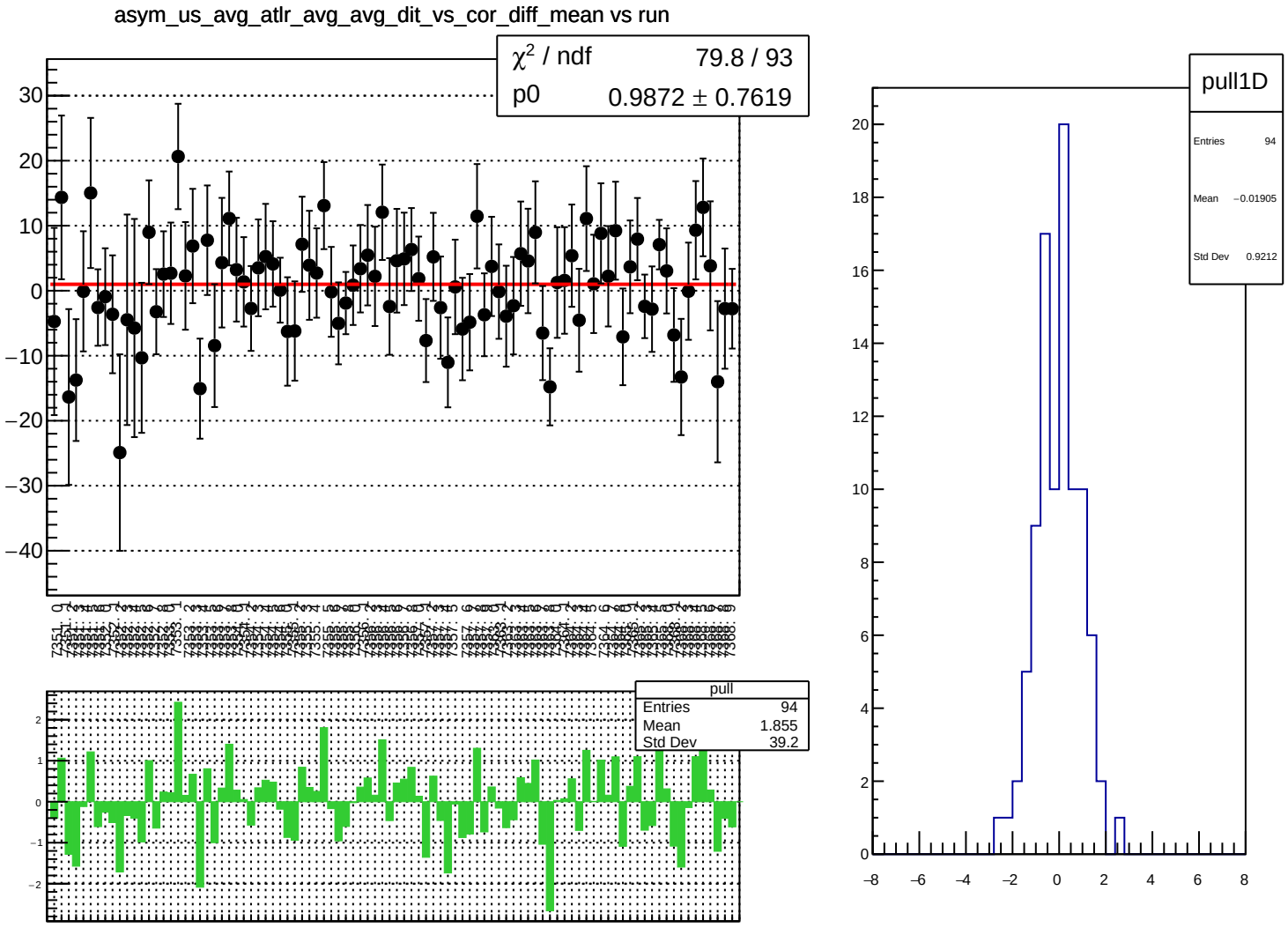

asym_us_avg_atlr_avg_avg_mean vs run
×10^3
χ² / ndf 75.74 / 93
p0 −1.14e+04 ± 8097
200
100
0
−100
−200
−300
pull
Entries 94
Mean −184.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

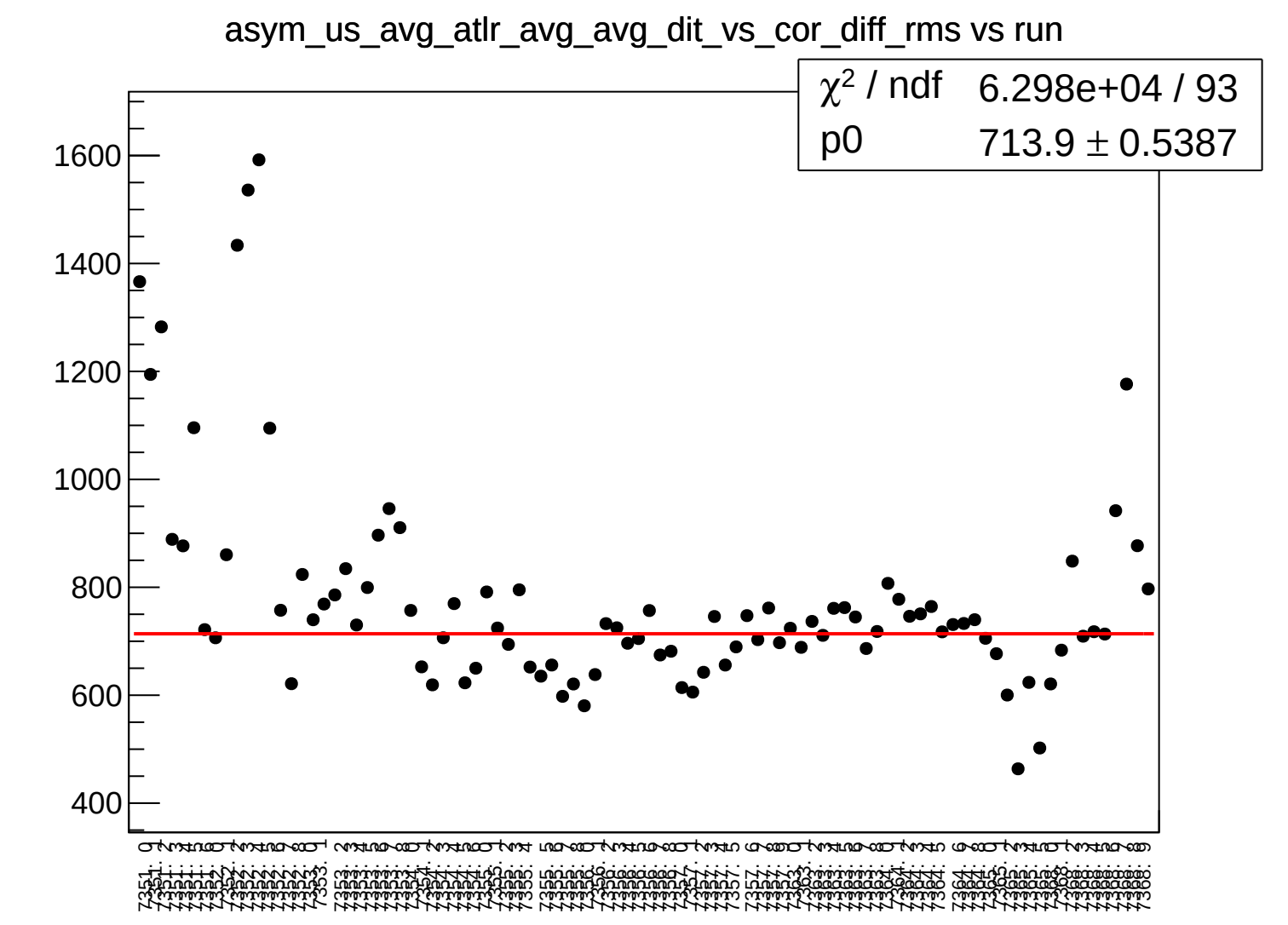

pull1D
Entries 94
Mean −0.009596
Std Dev 0.8976
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

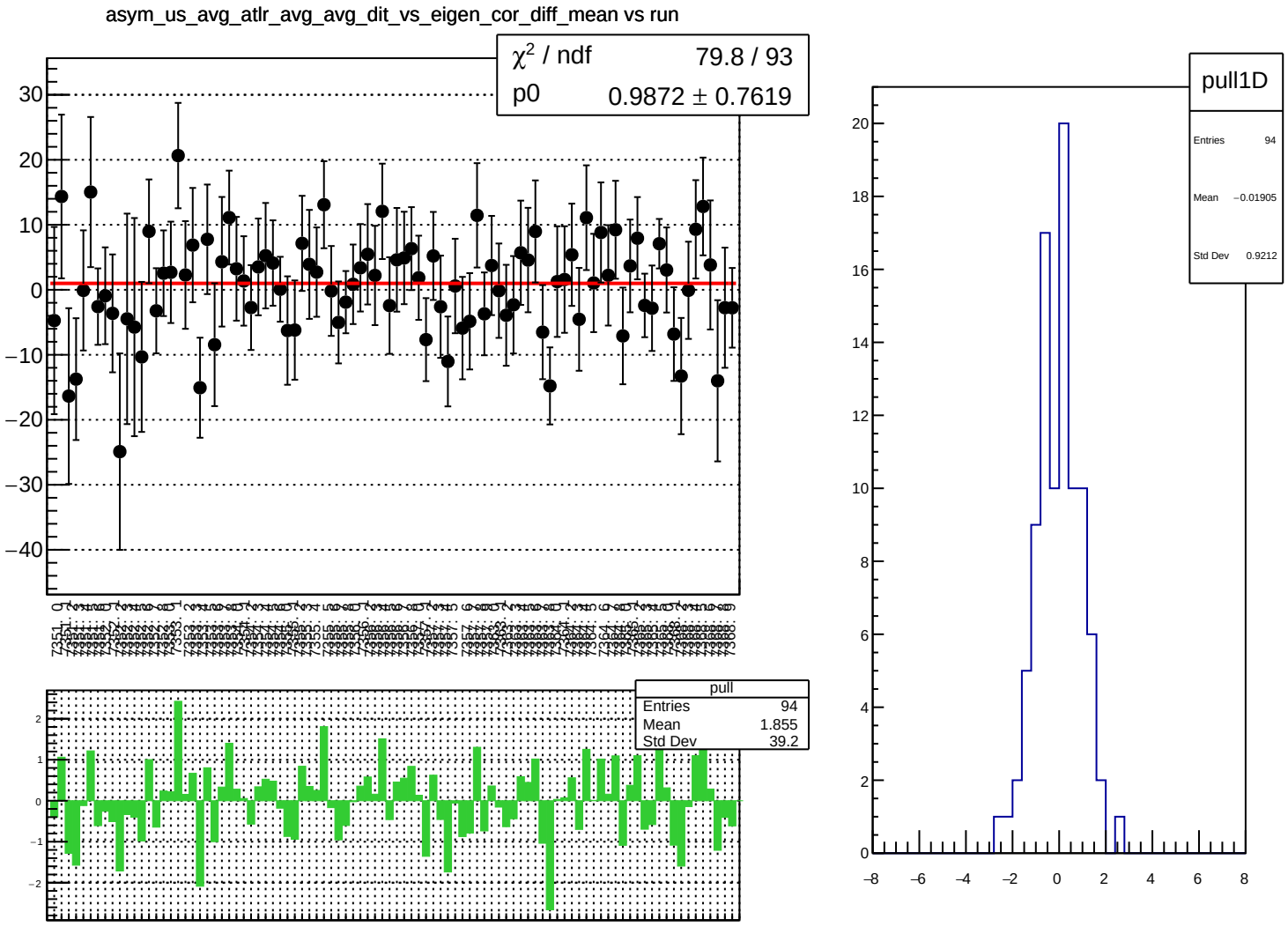

asym_us_avg_atlr_avg_avg_rms vs run
χ^2 / ndf 1.416e+04 / 93
p0 7691 ± 5.725
11000
10500
10000
9500
9000
8500
8000
7500
7000
6500

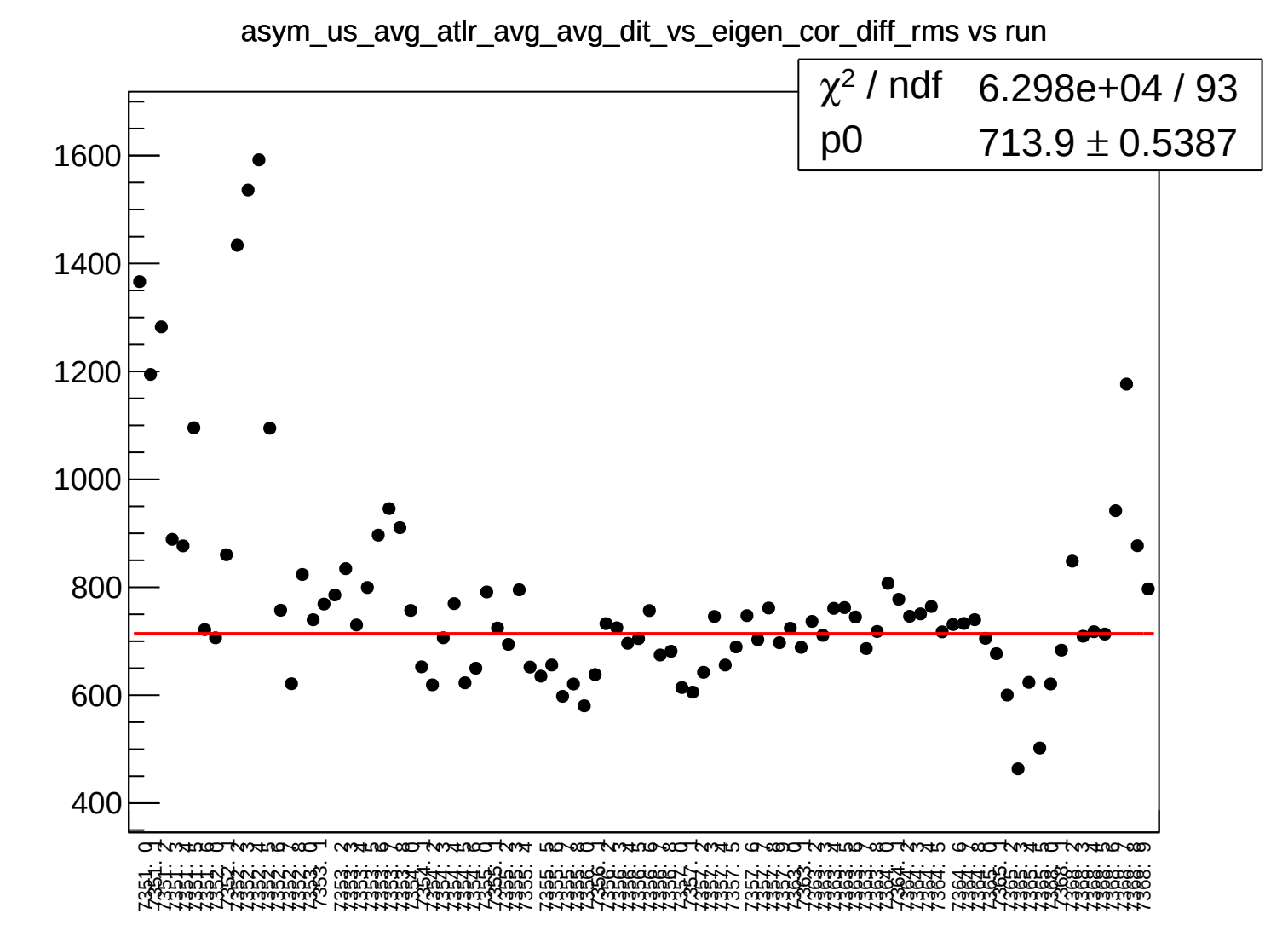

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 136.3 / 93
p0 −1.867e−13 ± 2.023e−13
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 94
Mean 54.34
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.07247
Std Dev 1.202
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

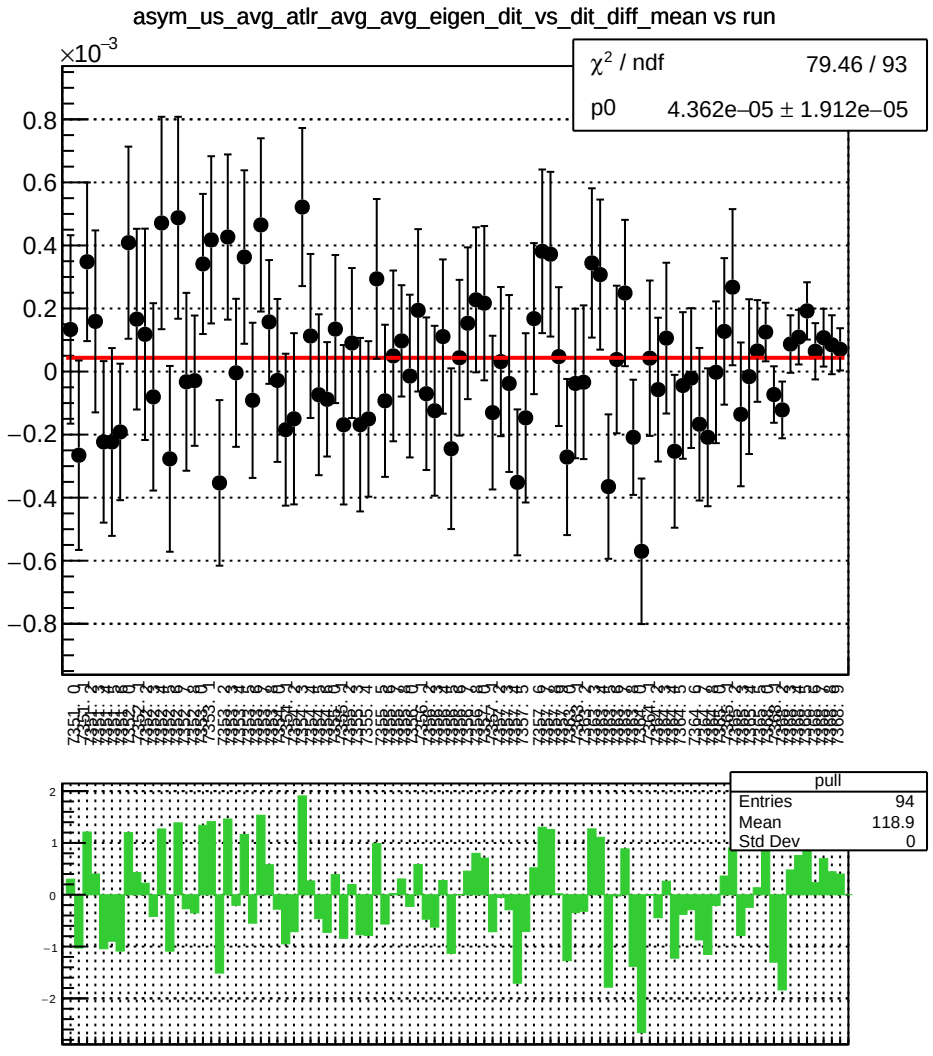

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.367e+06 / 93
p0 9.611e−11 ± 1.43e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

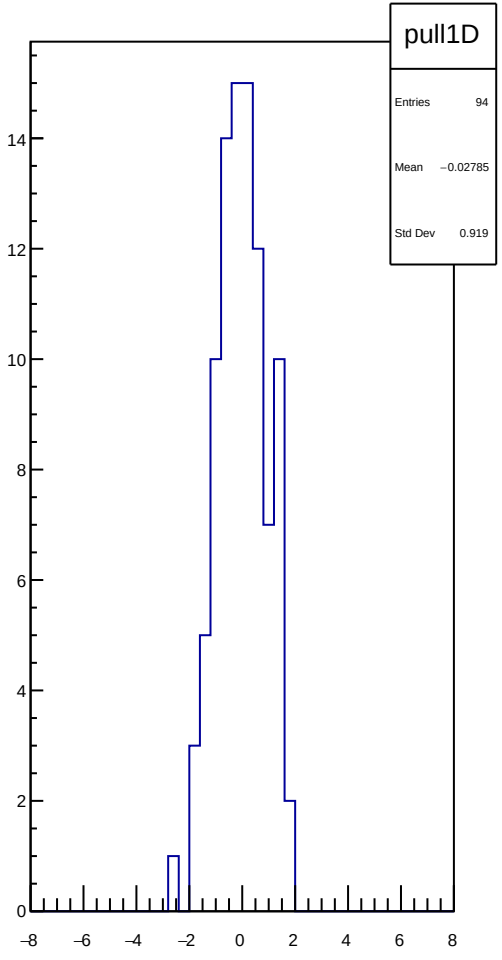

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 79.8 / 93
p0 0.9872 ± 0.7619
pull
Entries 94
Mean 1.855
Std Dev 39.2
pull1D
Entries 94
Mean −0.01905
Std Dev 0.9212

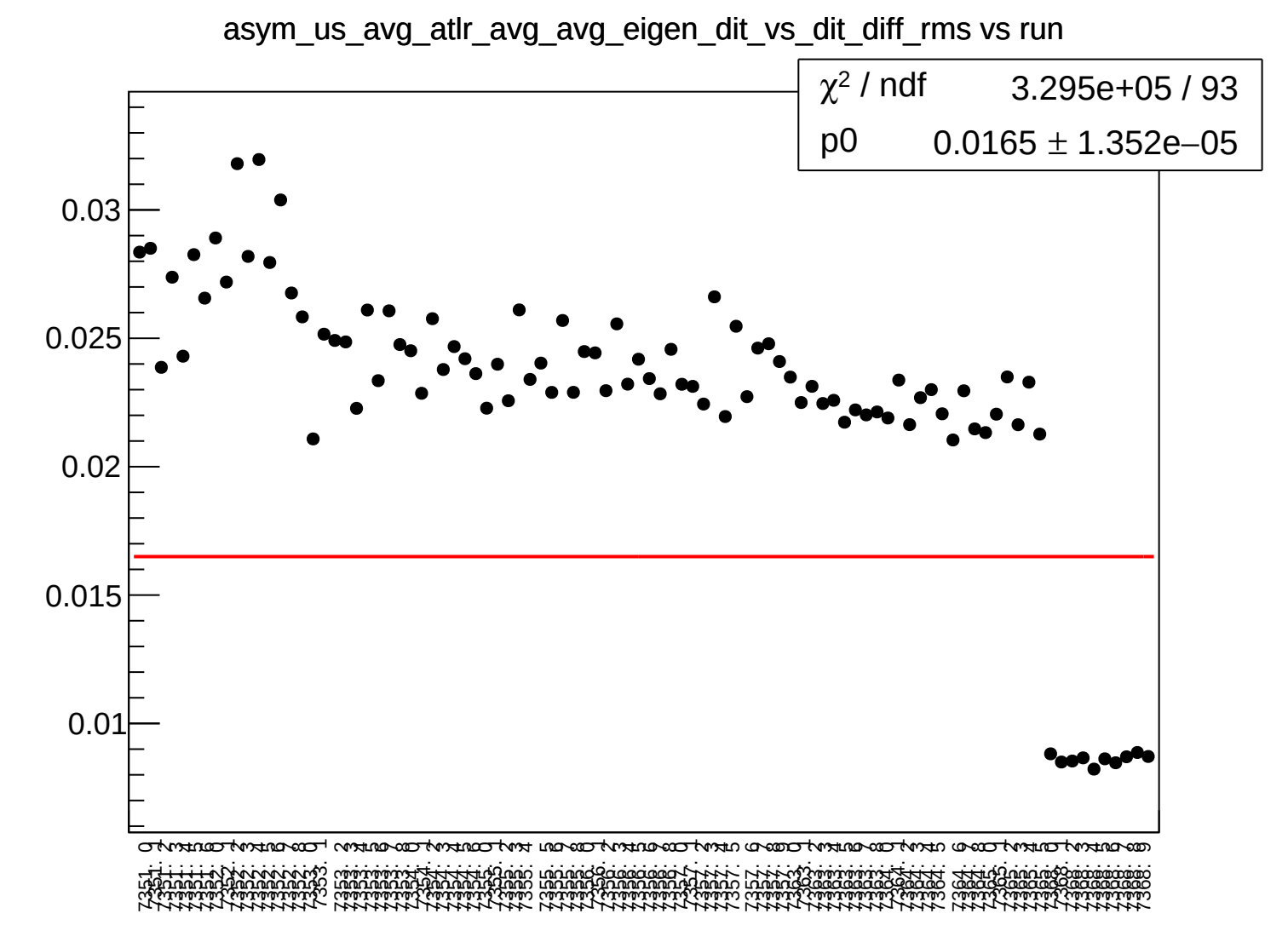

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.298e+04 / 93
p0 713.9 ± 0.5387
1600
1400
1200
1000
800
600
400

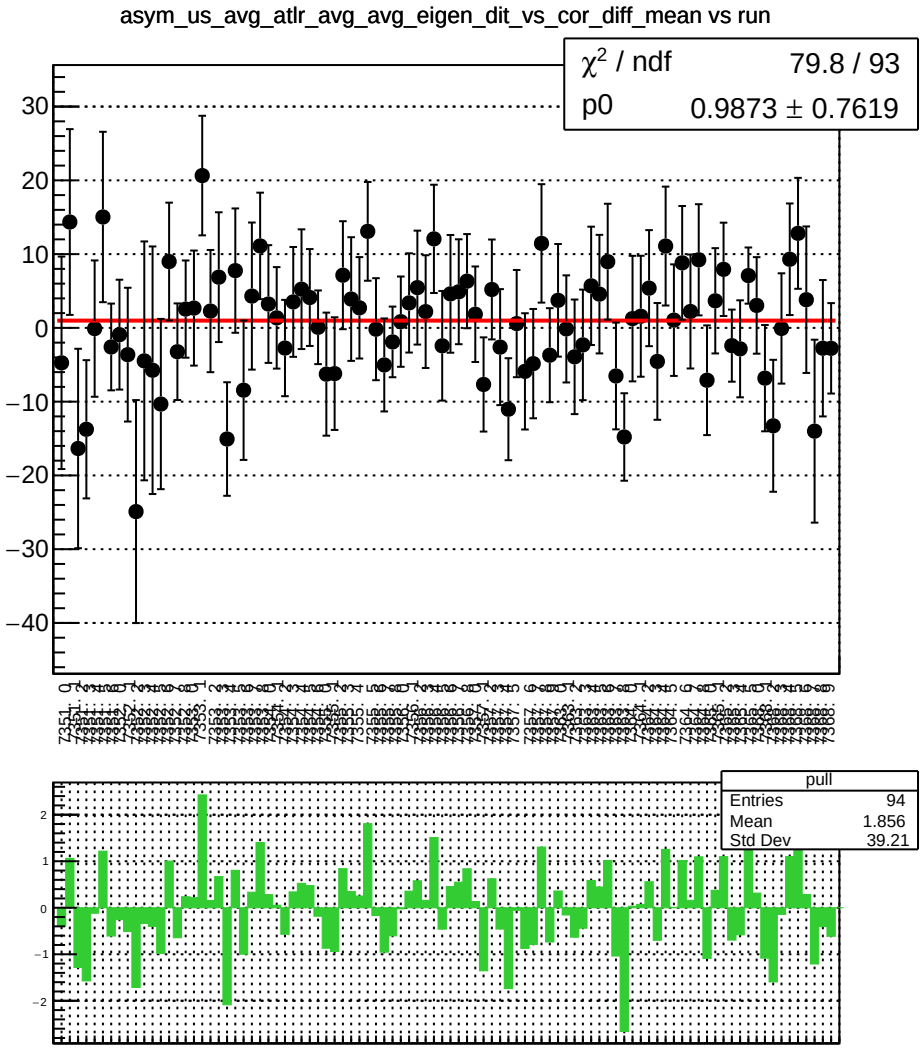

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.8 / 93
p0 0.9872 ± 0.7619
pull
Entries 94
Mean 1.855
Std Dev 39.2
pull1D
Entries 94
Mean −0.01905
Std Dev 0.9212

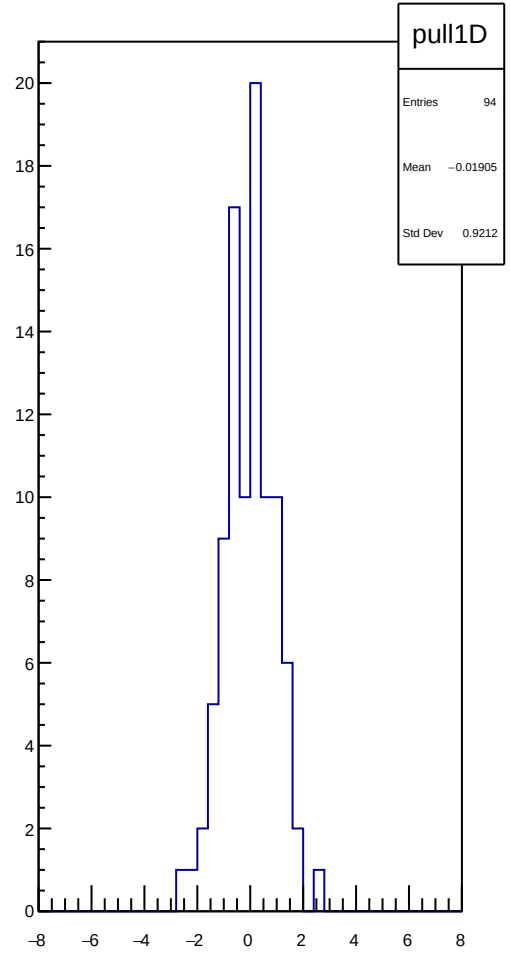

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 6.298e+04 / 93
p0 713.9 ± 0.5387
1600
1400
1200
1000
800
600
400

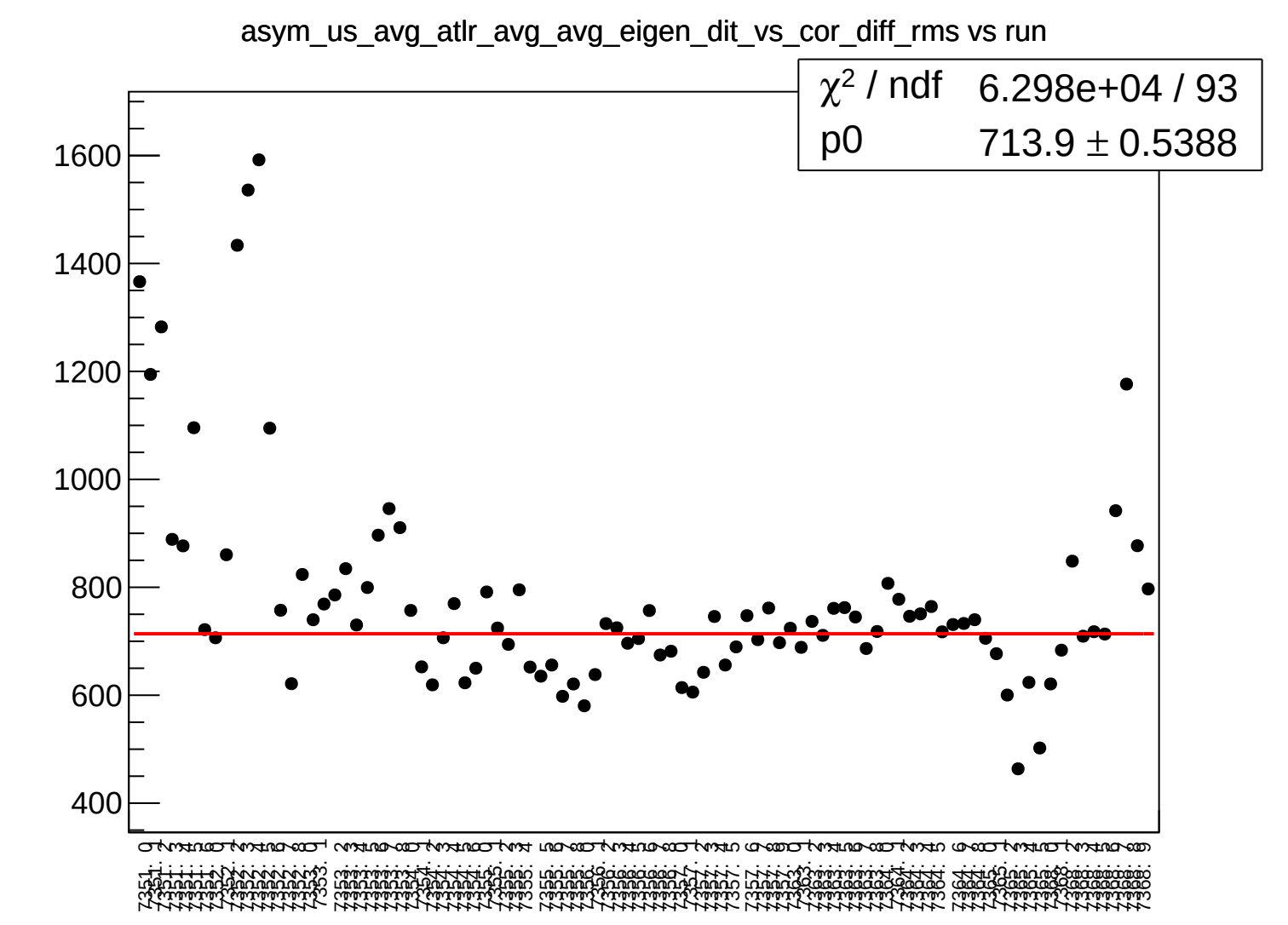

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 79.46 / 93
p0 4.362e−05 ± 1.912e−05
pull
Entries 94
Mean 118.9
Std Dev 0

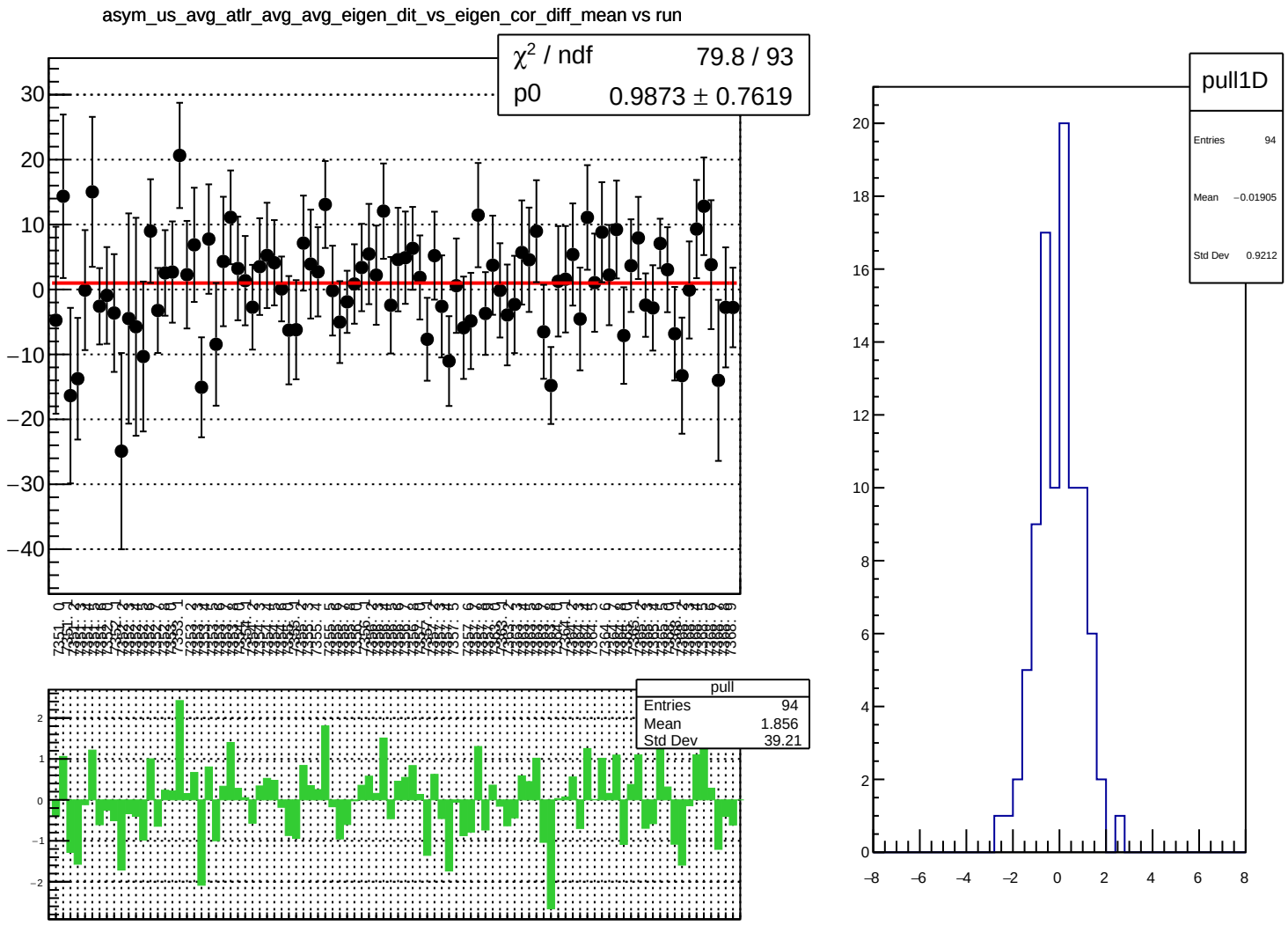

pull1D
Entries 94
Mean −0.02785
Std Dev 0.919

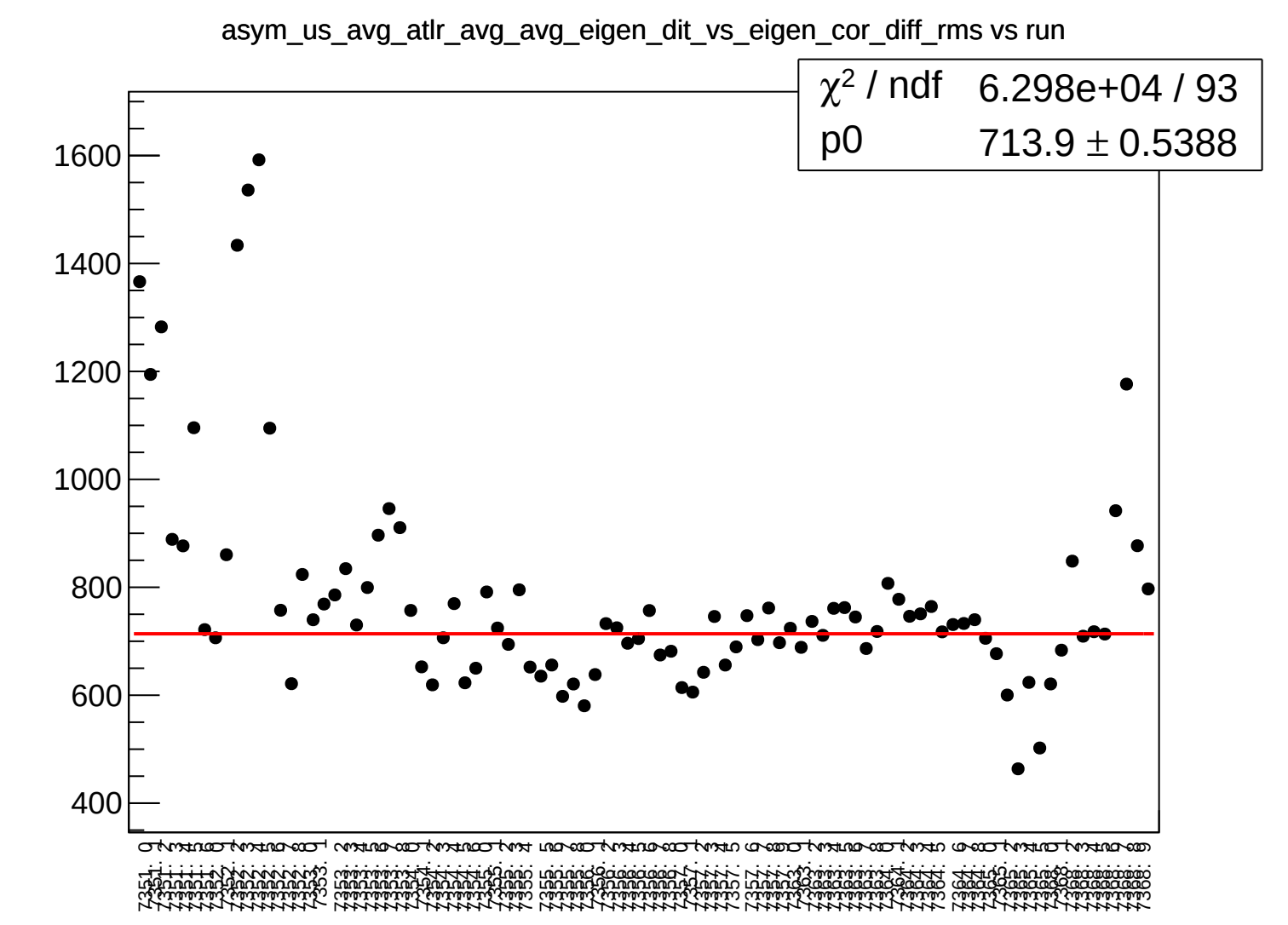

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.295e+05 / 93
p0 0.0165 ± 1.352e−05
0.03
0.025
0.02
0.015
0.01

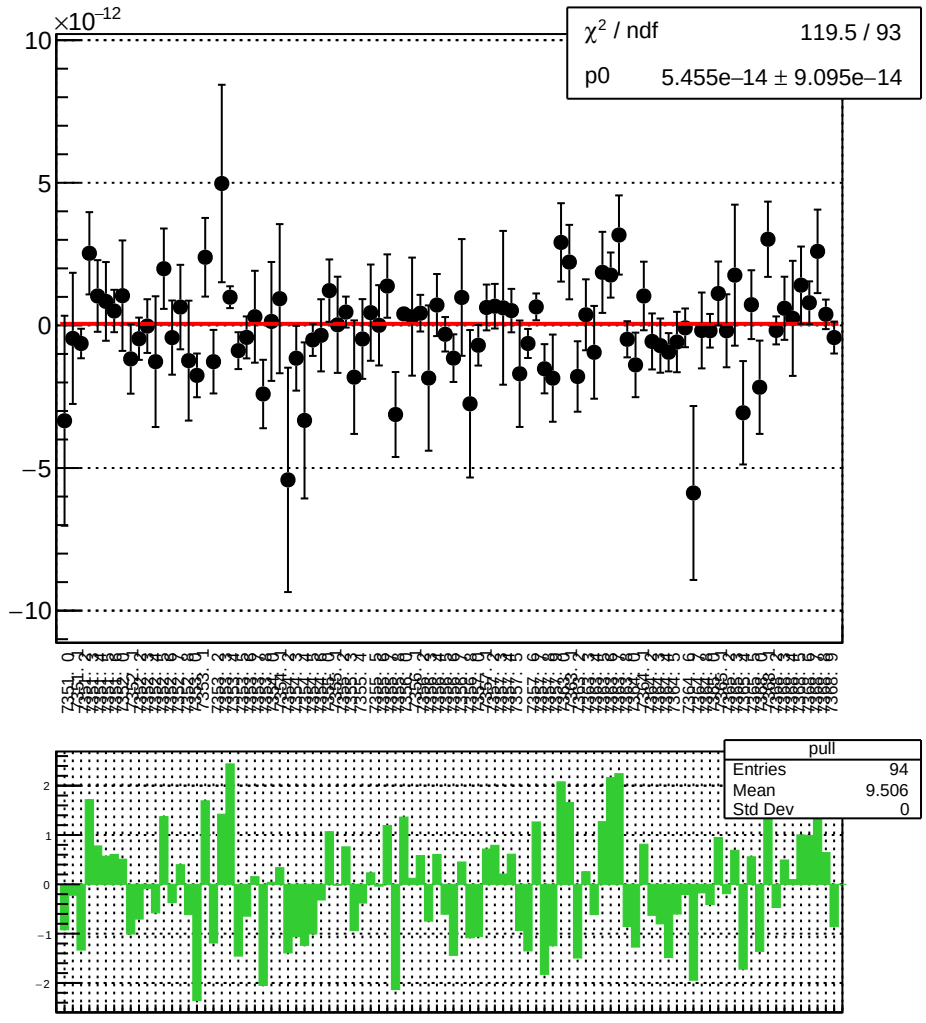

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.8 / 93
p0 0.9873 ± 0.7619
pull
Entries 94
Mean 1.856
Std Dev 39.21

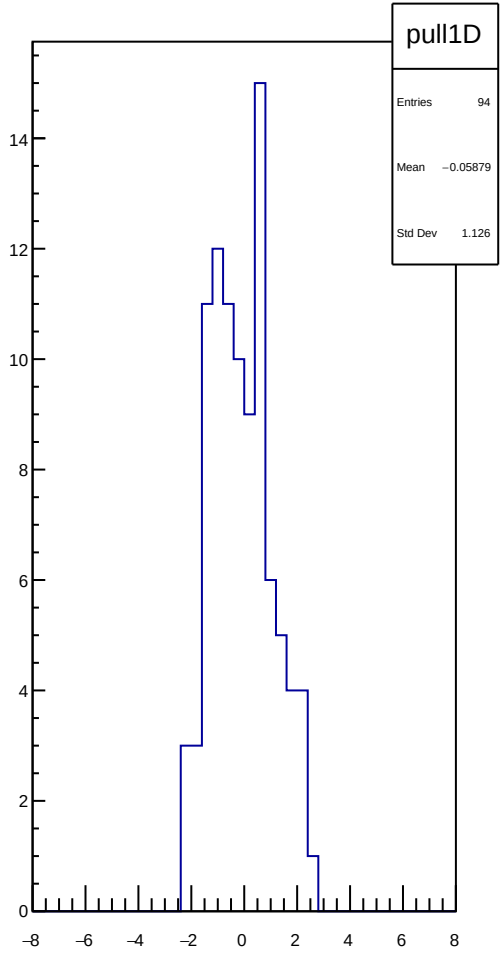

pull1D
Entries 94
Mean −0.01905
Std Dev 0.9212

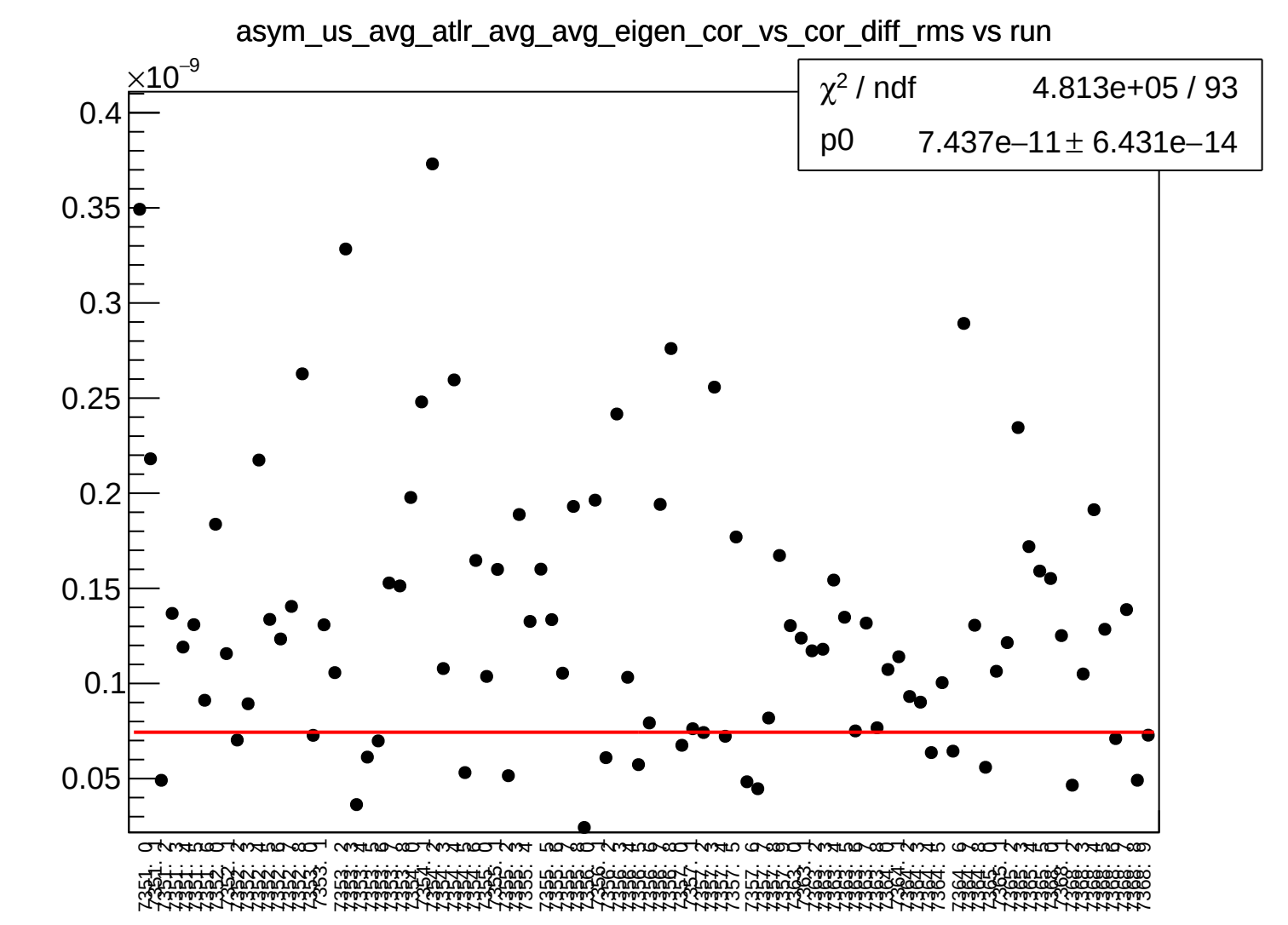

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.298e+04 / 93
p0 713.9 ± 0.5388
1600
1400
1200
1000
800
600
400

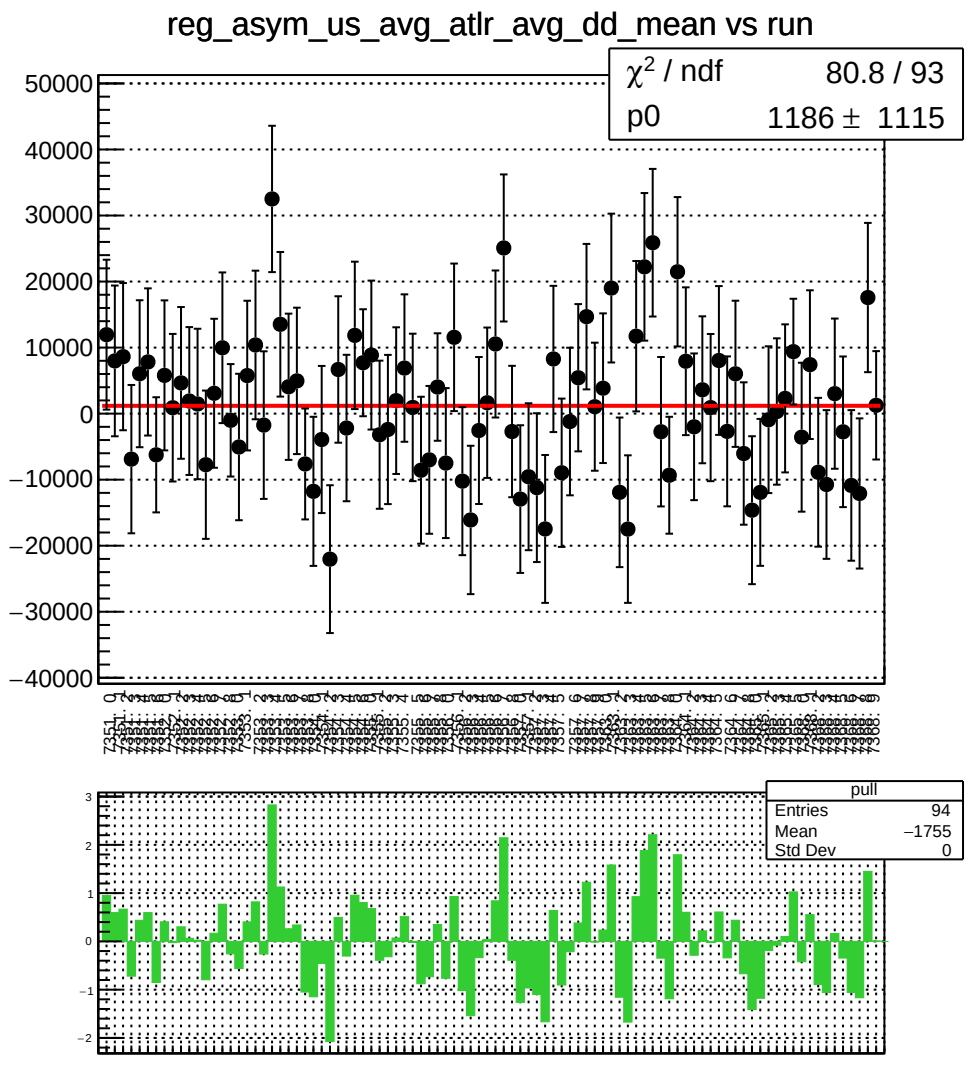

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.8 / 93
p0 0.9873 ± 0.7619
pull
Entries 94
Mean 1.856
Std Dev 39.21
pull1D
Entries 94
Mean −0.01905
Std Dev 0.9212

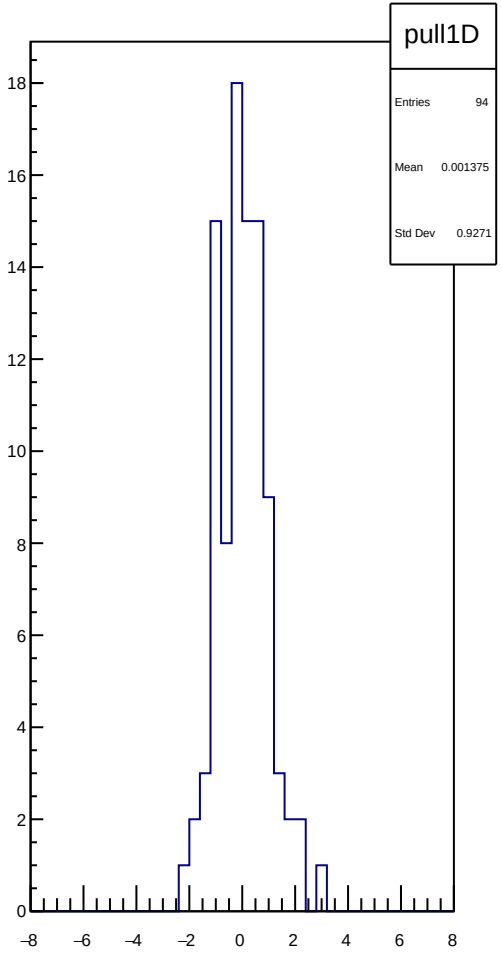

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.298e+04 / 93
p0 713.9 ± 0.5388
1600
1400
1200
1000
800
600
400

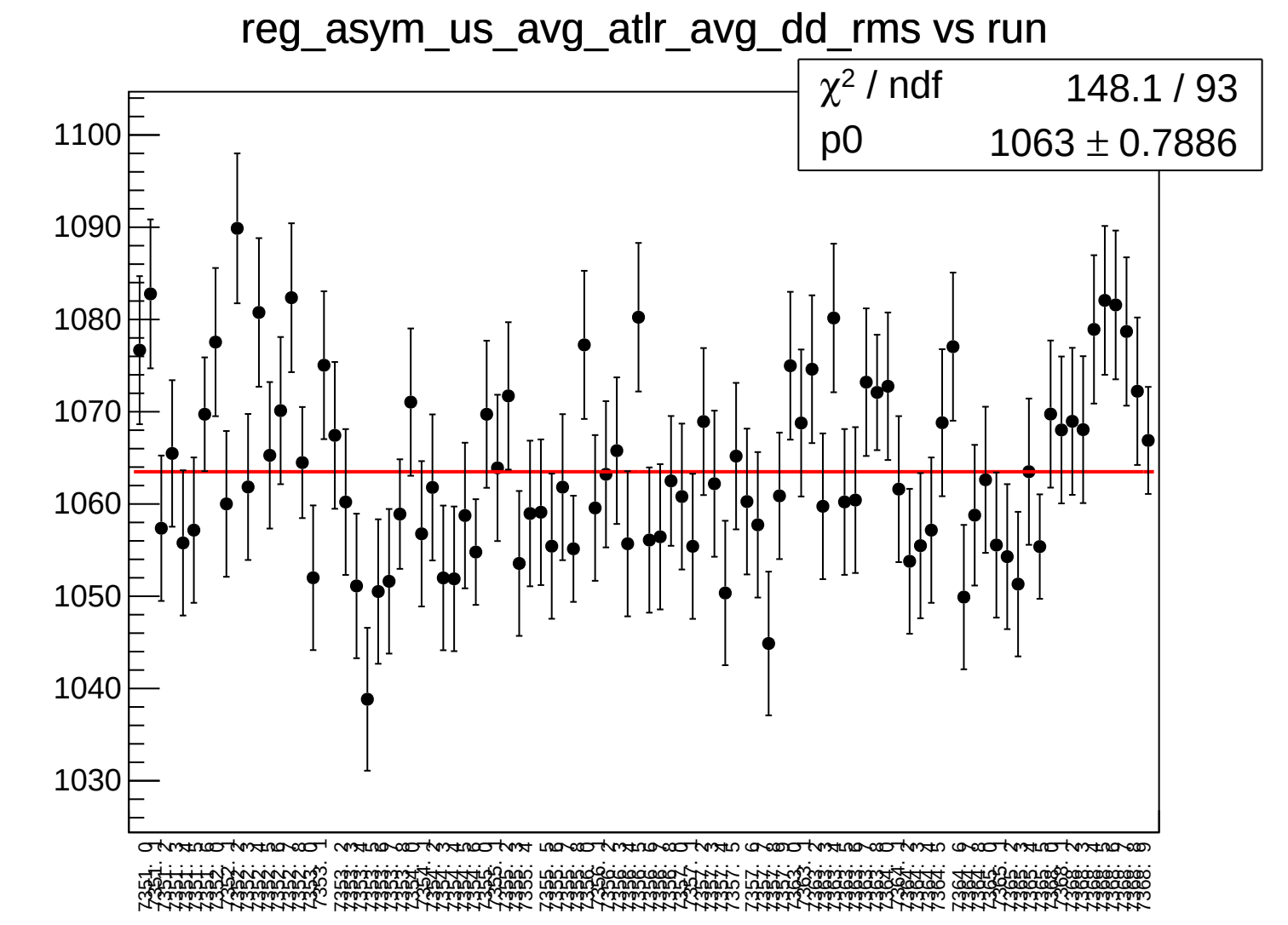

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 119.5 / 93
p0 5.455e−14 ± 9.095e−14
pull
Entries 94
Mean 9.506
Std Dev 0

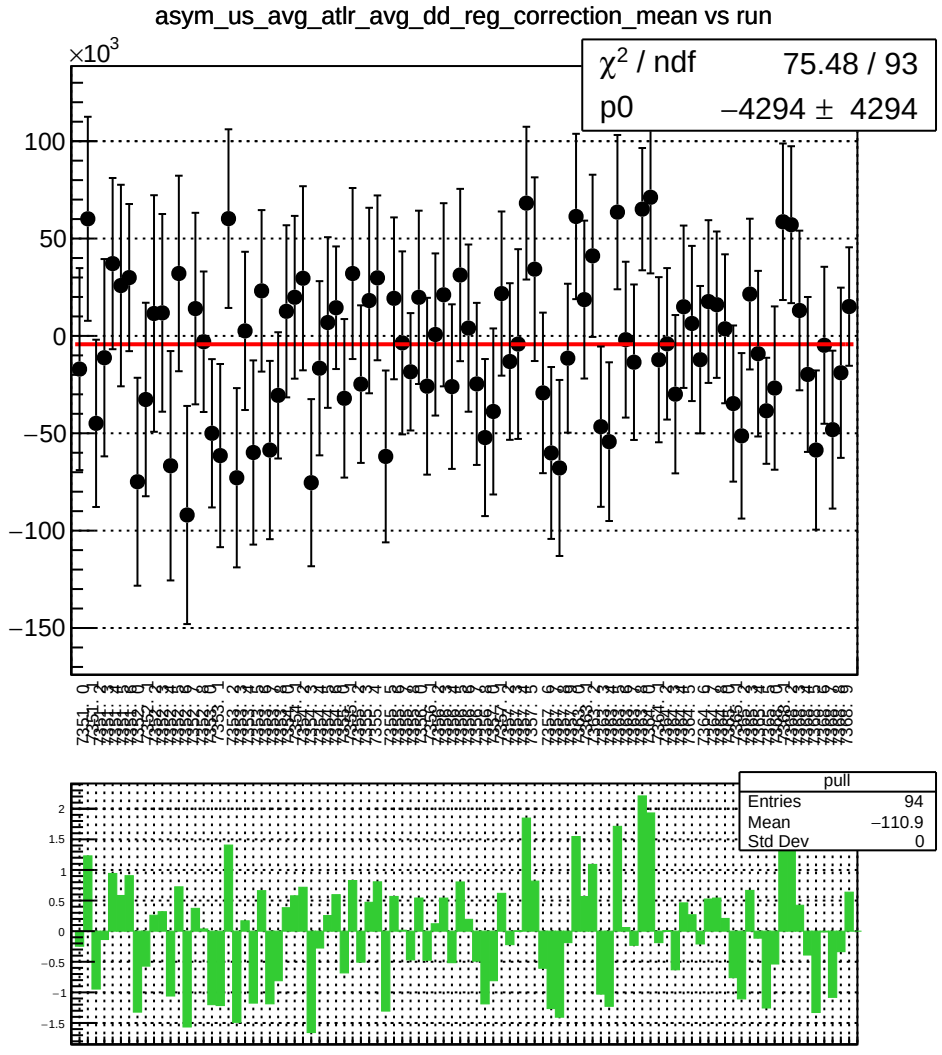

pull1D
Entries 94
Mean −0.05879
Std Dev 1.126

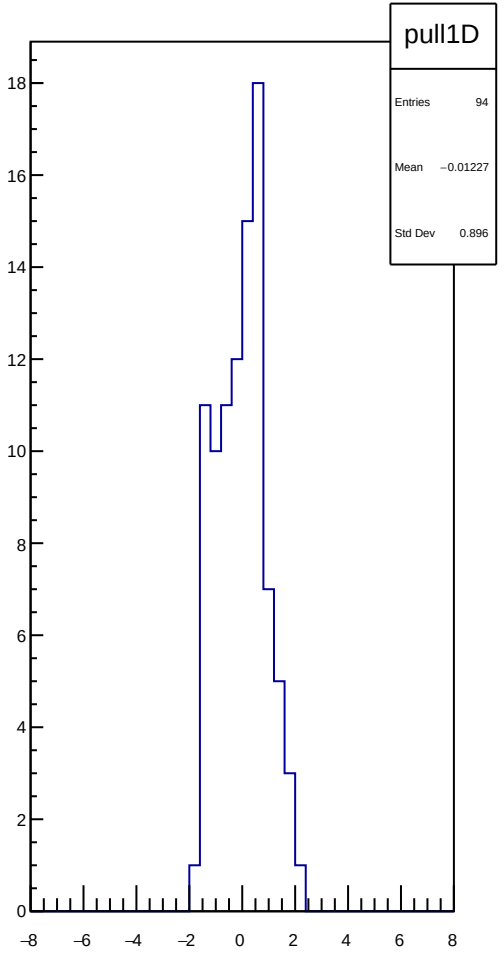

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.813e+05 / 93
p0 7.437e−11 ± 6.431e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

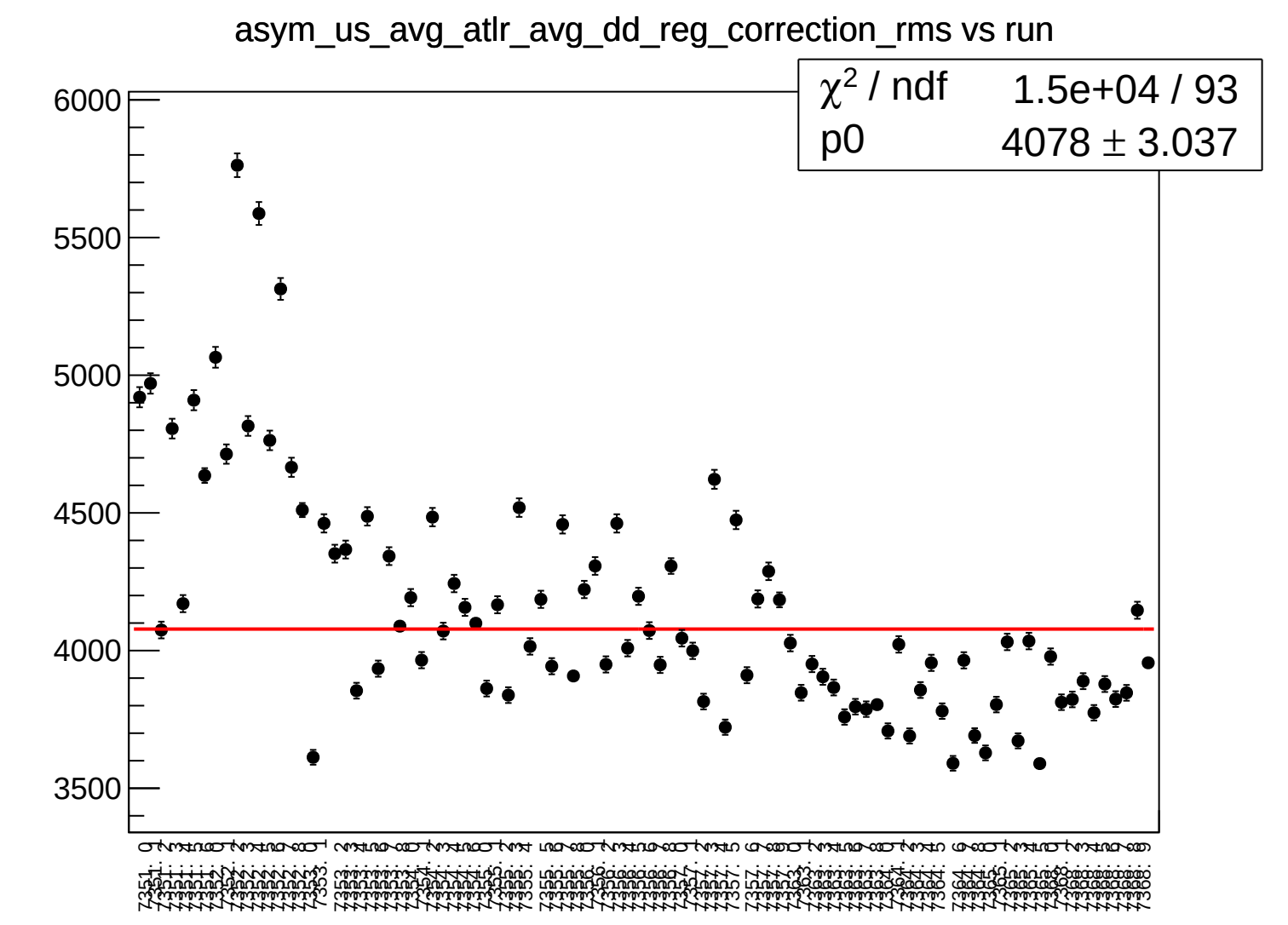

reg_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 80.8 / 93
p0 1186 ± 1115
pull
Entries 94
Mean −1755
Std Dev 0

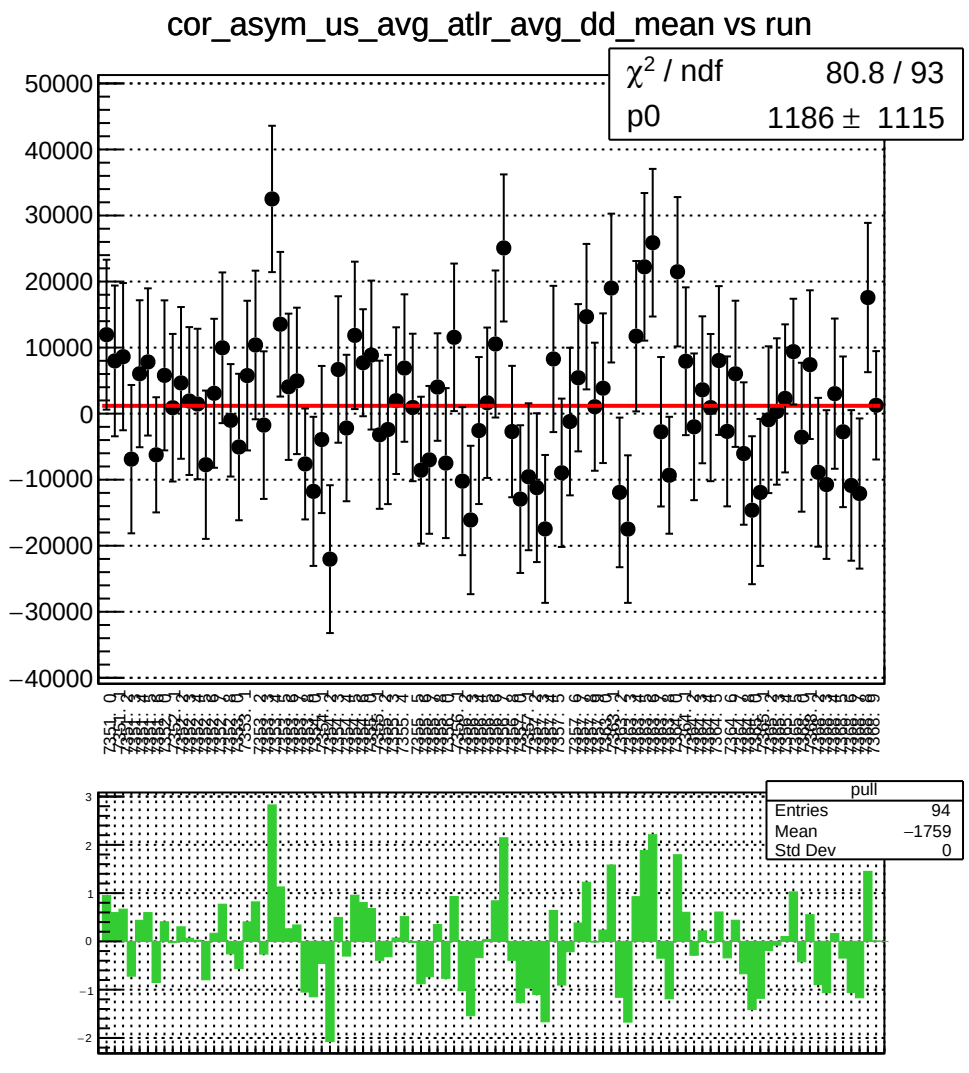

pull1D
Entries 94
Mean 0.001375
Std Dev 0.9271

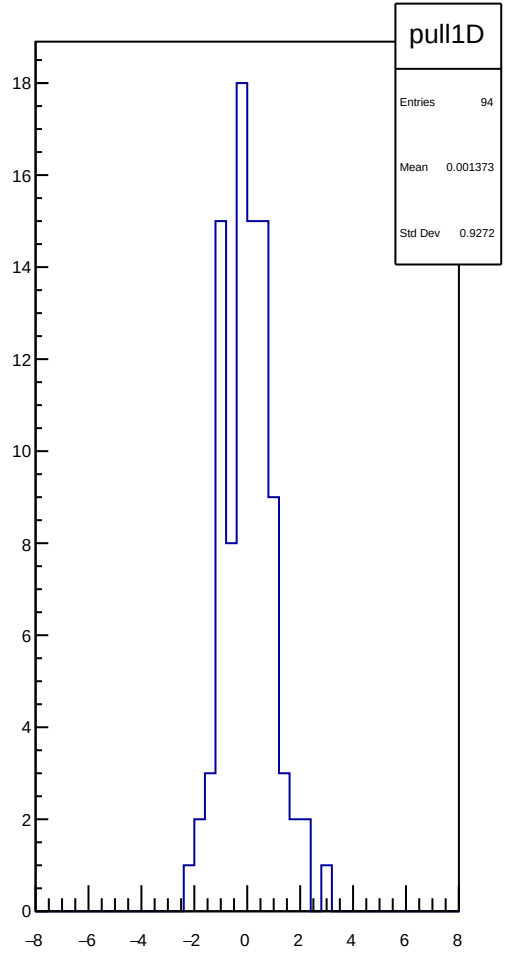

reg_asym_us_avg_atlr_avg_dd_rms vs run
χ^2 / ndf 148.1 / 93
p0 1063 ± 0.7886
1100
1090
1080
1070
1060
1050
1040
1030

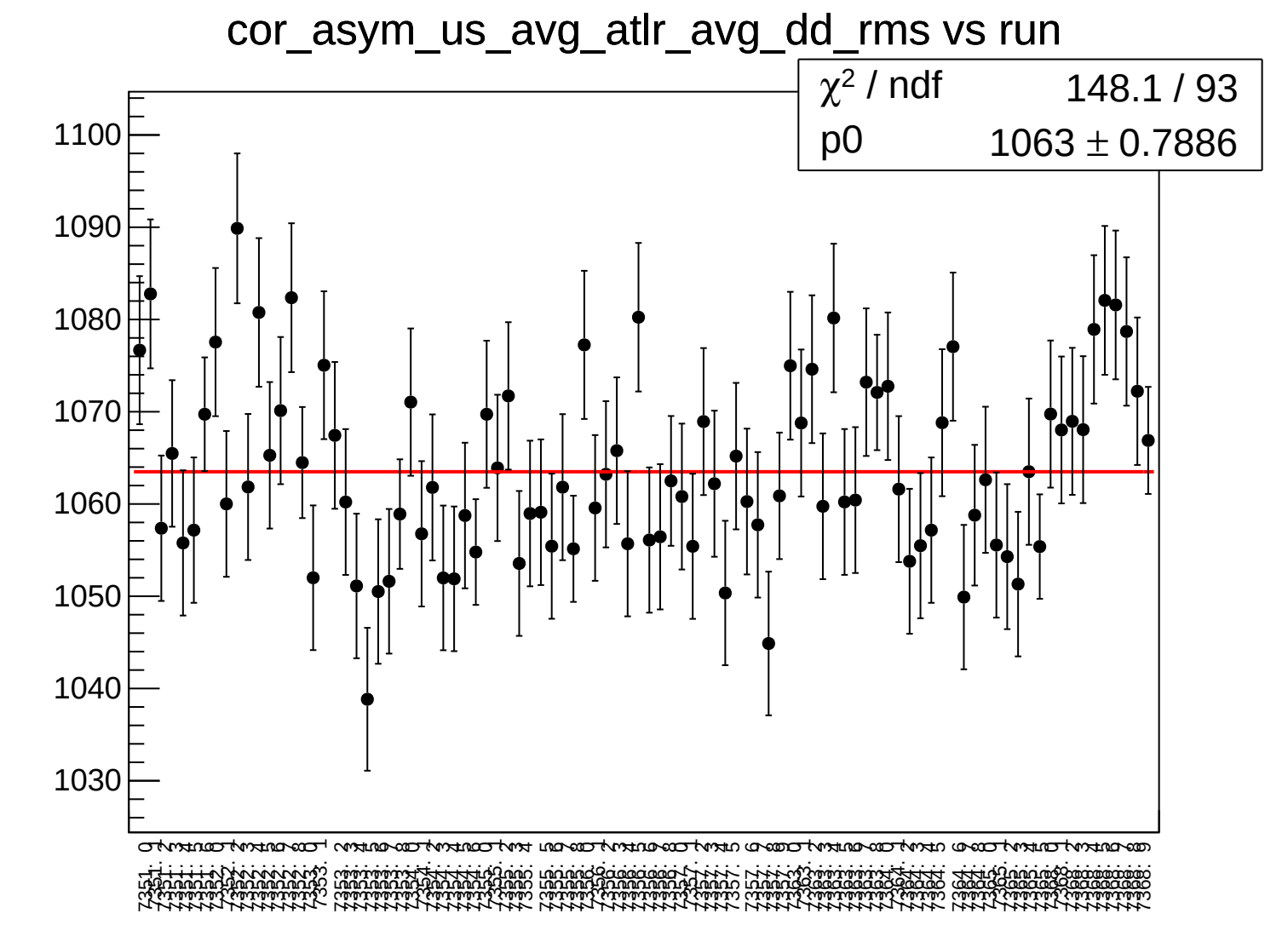

asym_us_avg_atlr_avg_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 75.48 / 93
p0 −4294 ± 4294
100
50
0
−50
−100
−150
pull
Entries 94
Mean −110.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

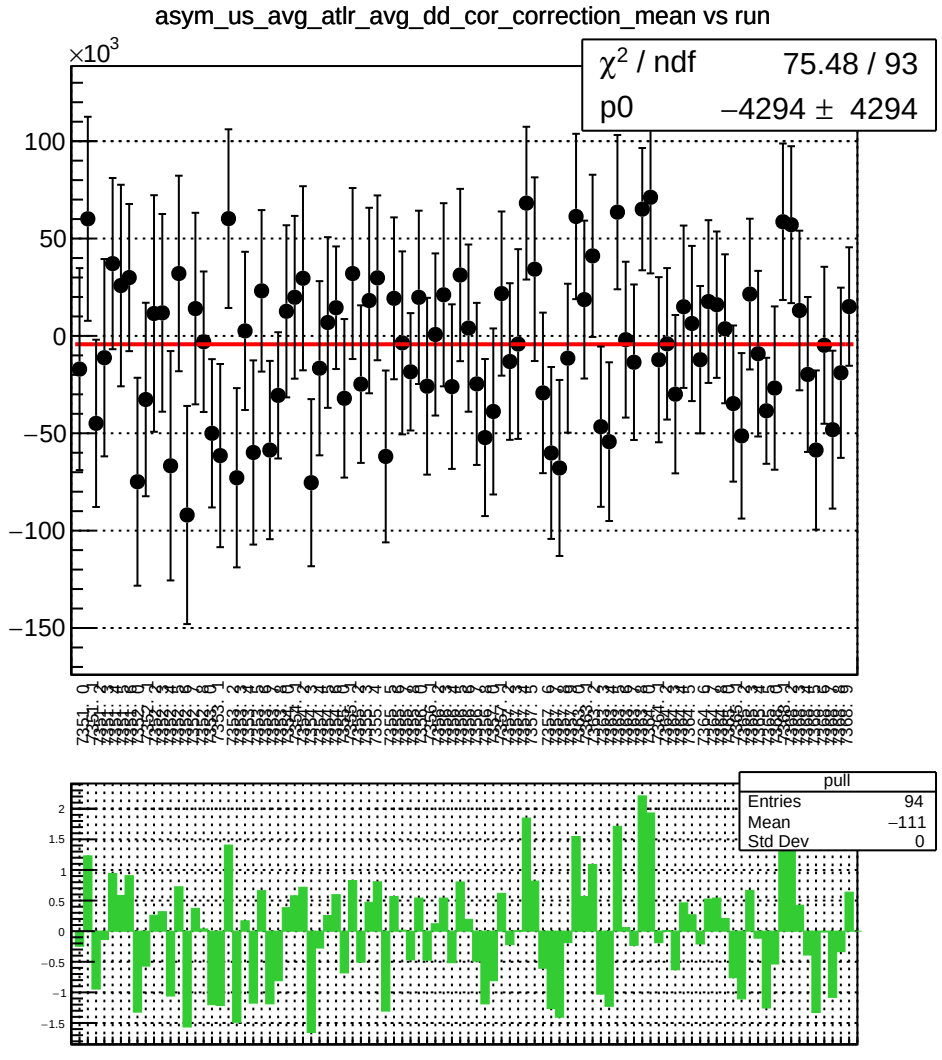

pull1D
Entries 94
Mean −0.01227
Std Dev 0.896
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

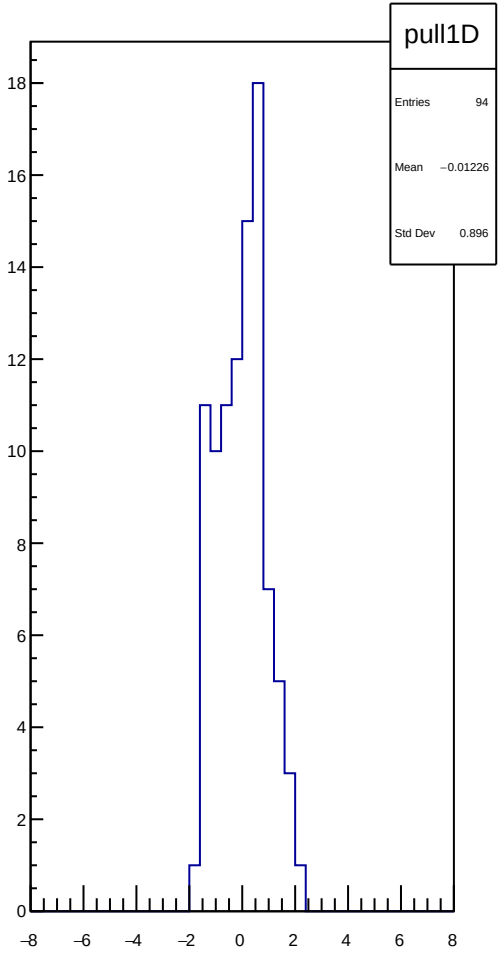

asym_us_avg_atlr_avg_dd_reg_correction_rms vs run
χ² / ndf 1.5e+04 / 93
p0 4078 ± 3.037
6000
5500
5000
4500
4000
3500

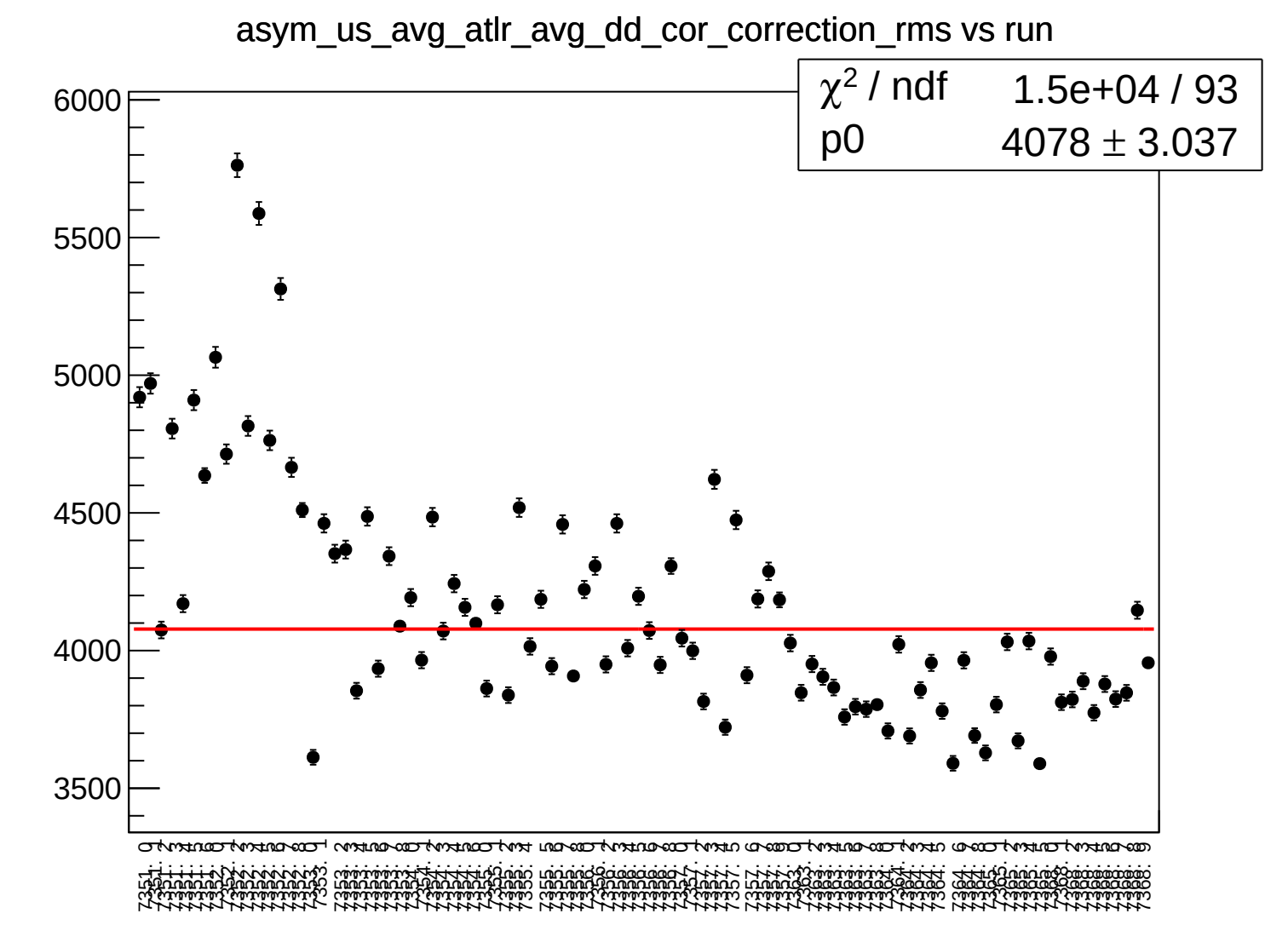

cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 80.8 / 93
p0 1186 ± 1115
pull
Entries 94
Mean −1759
Std Dev 0

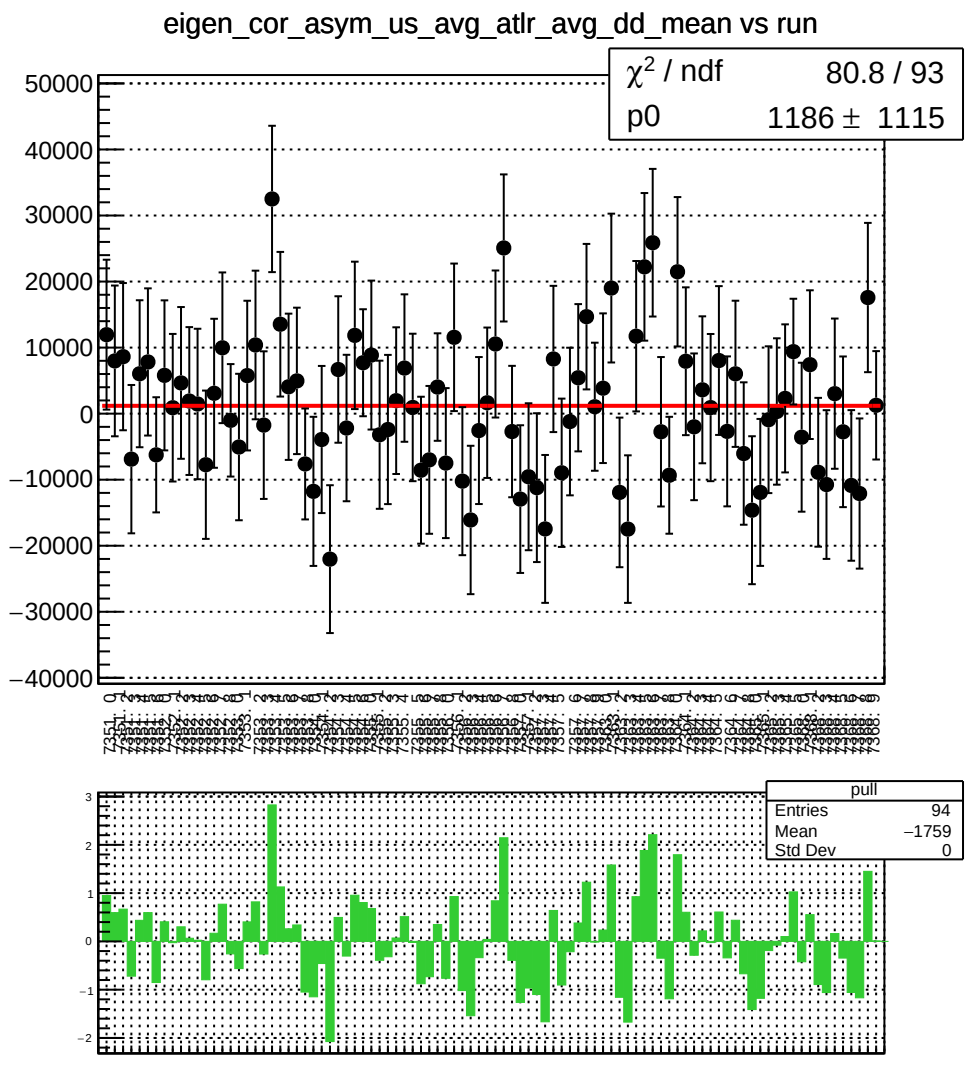

pull1D
Entries 94
Mean 0.001373
Std Dev 0.9272

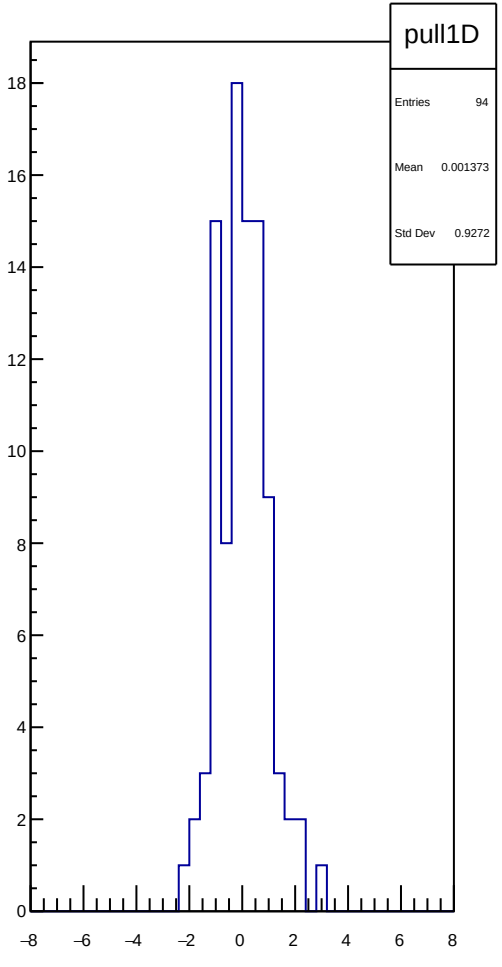

cor_asym_us_avg_atlr_avg_dd_rms vs run
χ^2 / ndf 148.1 / 93
p0 1063 ± 0.7886
1100
1090
1080
1070
1060
1050
1040
1030

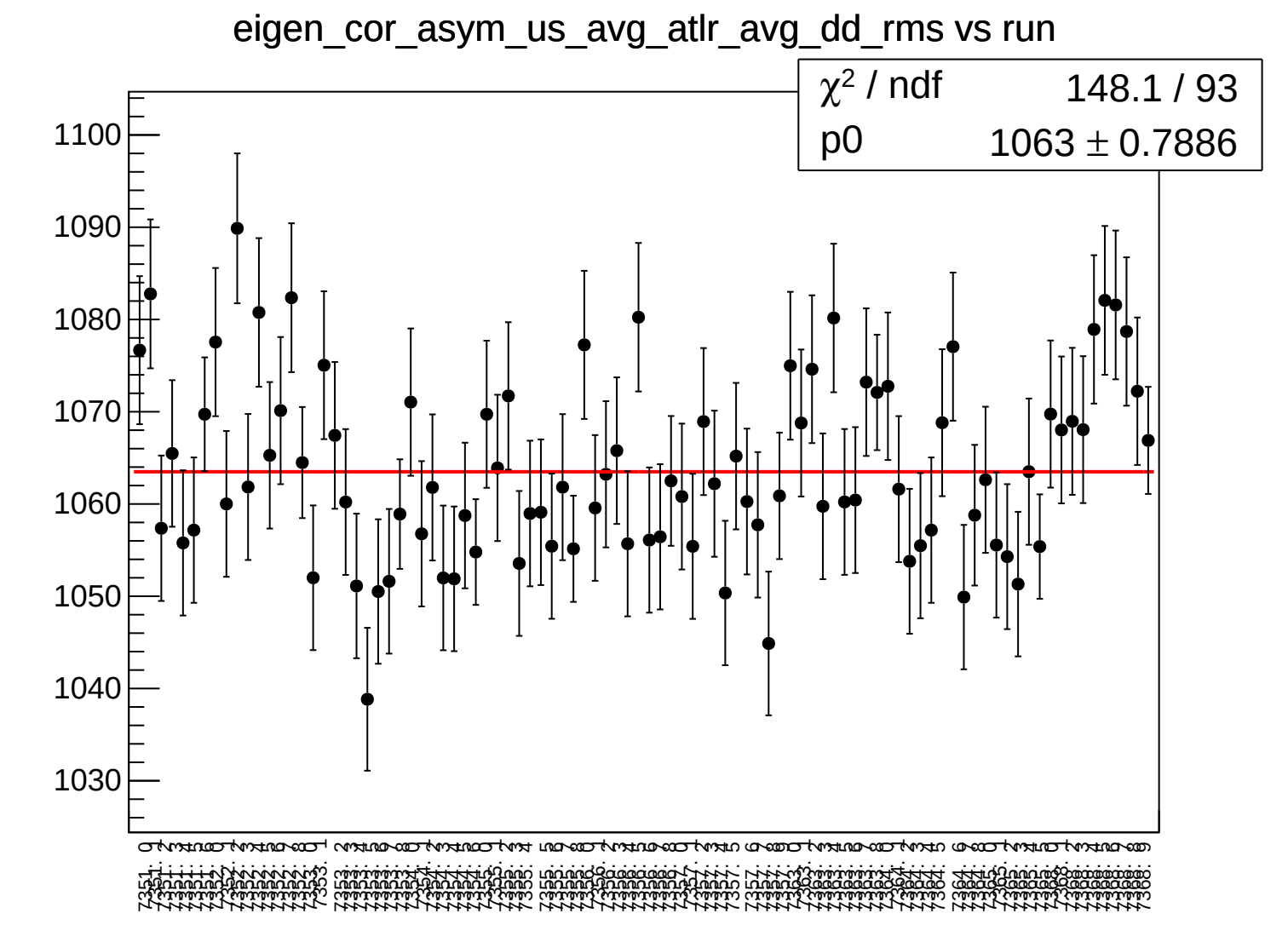

asym_us_avg_atlr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 75.48 / 93
p0 −4294 ± 4294
100
50
0
−50
−100
−150
pull
Entries 94
Mean −111
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

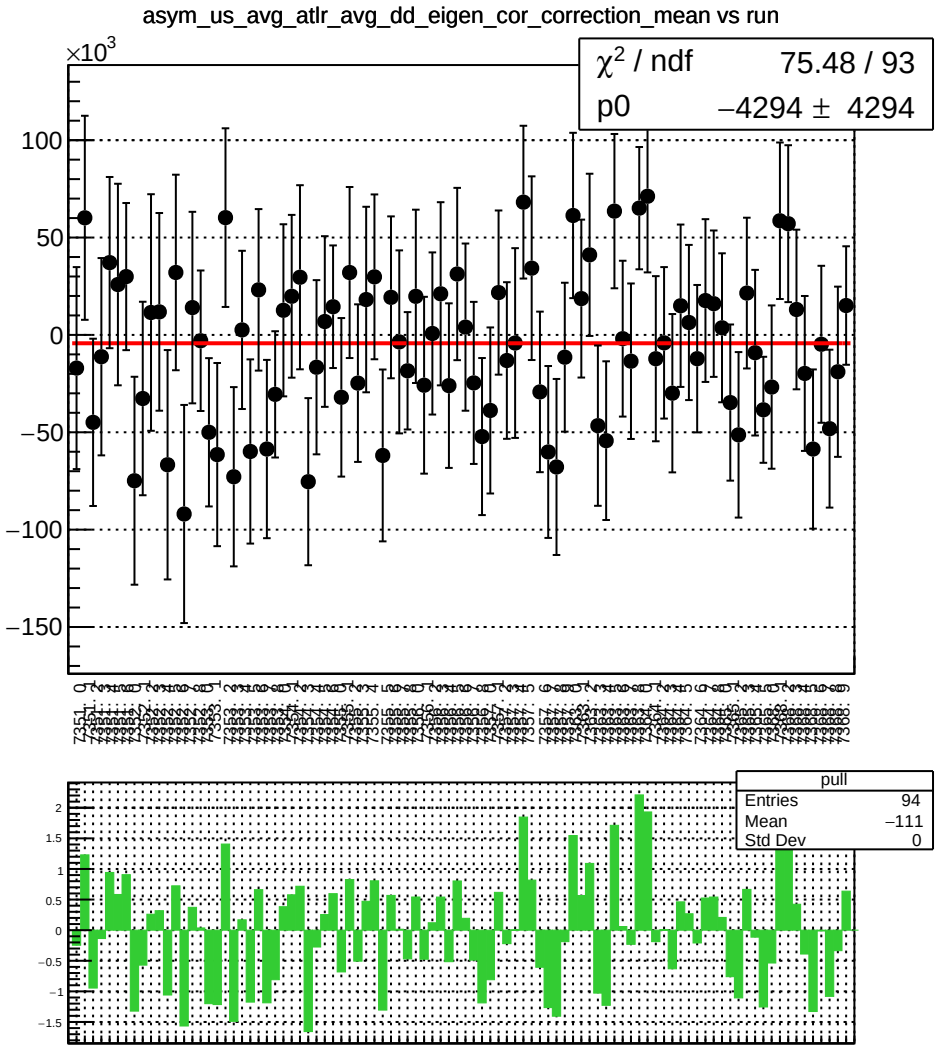

pull1D
Entries 94
Mean −0.01226
Std Dev 0.896
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

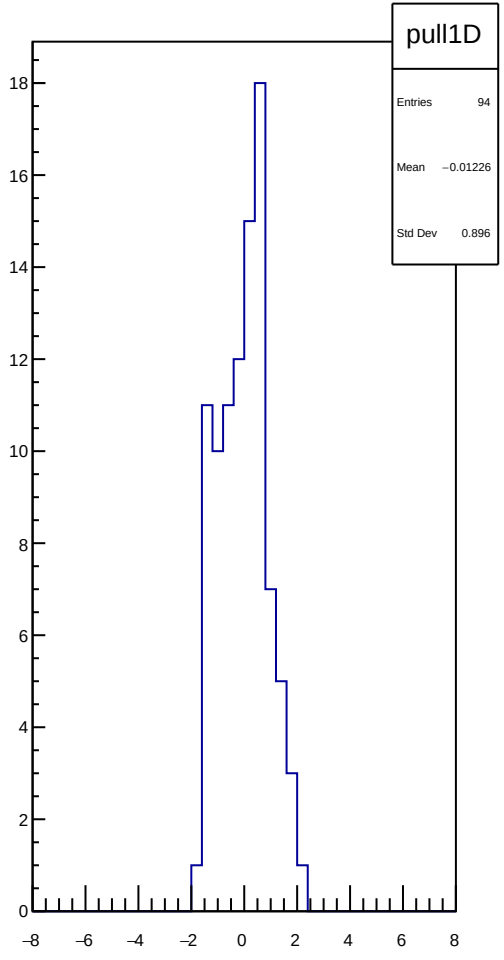

asym_us_avg_atlr_avg_dd_cor_correction_rms vs run
χ² / ndf 1.5e+04 / 93
p0 4078 ± 3.037
6000
5500
5000
4500
4000
3500

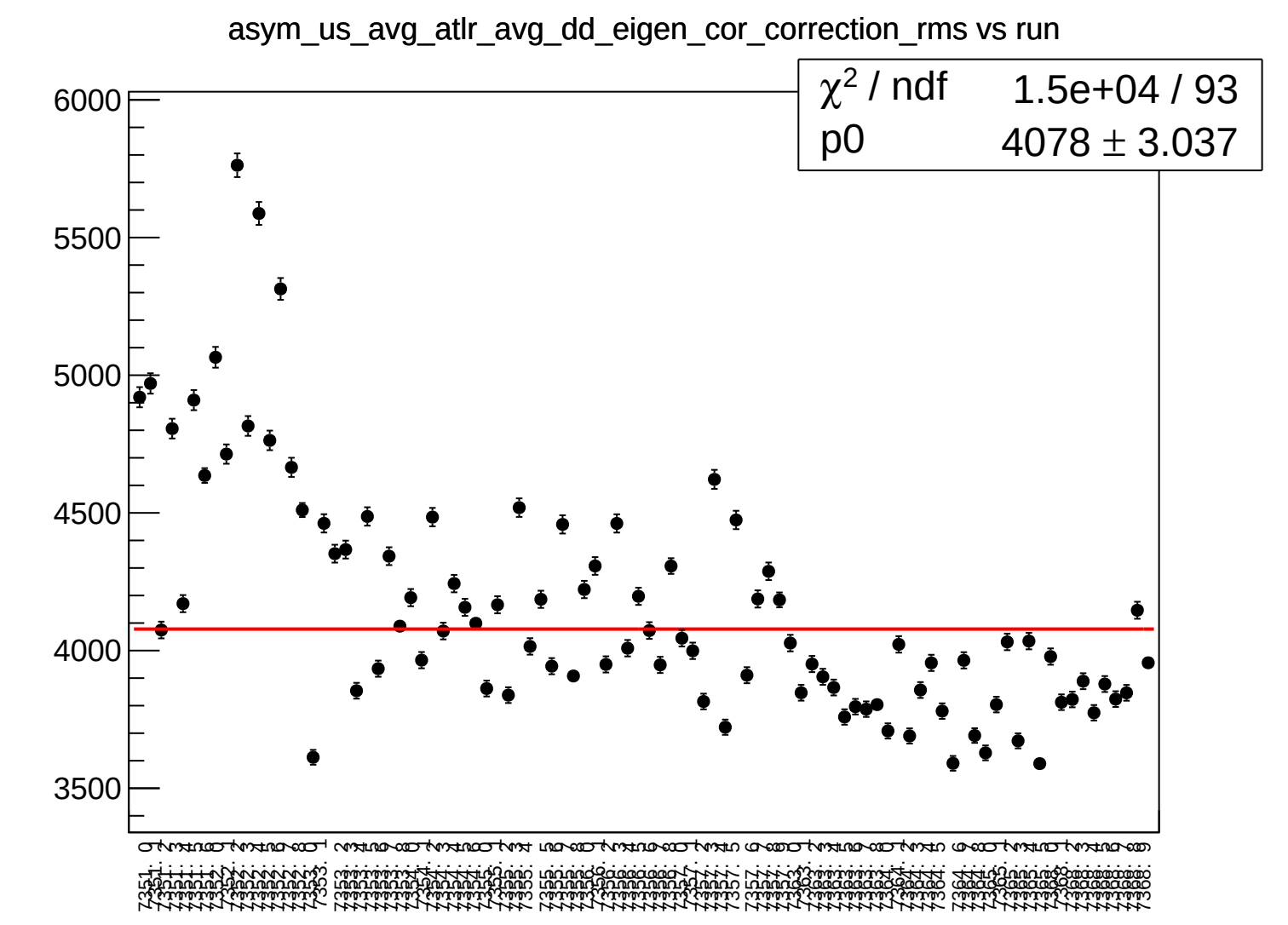

eigen_cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 80.8 / 93
p0 1186 ± 1115
pull
Entries 94
Mean −1759
Std Dev 0

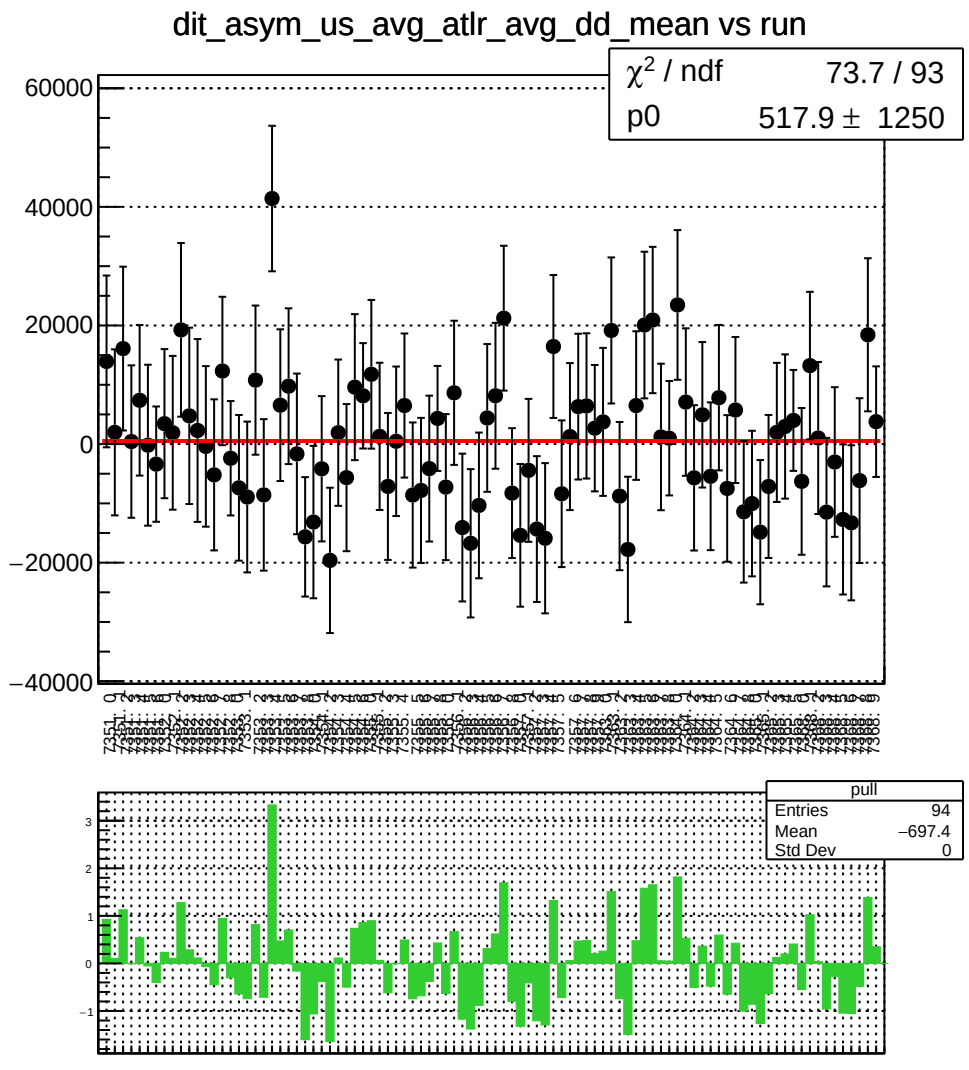

pull1D
Entries 94
Mean 0.001373
Std Dev 0.9272

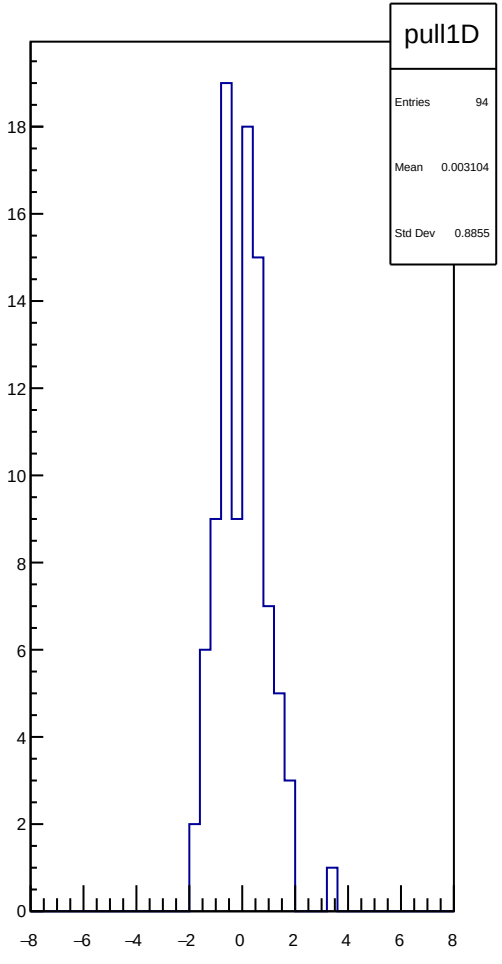

eigen_cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 148.1 / 93
p0 1063 ± 0.7886
1100
1090
1080
1070
1060
1050
1040
1030

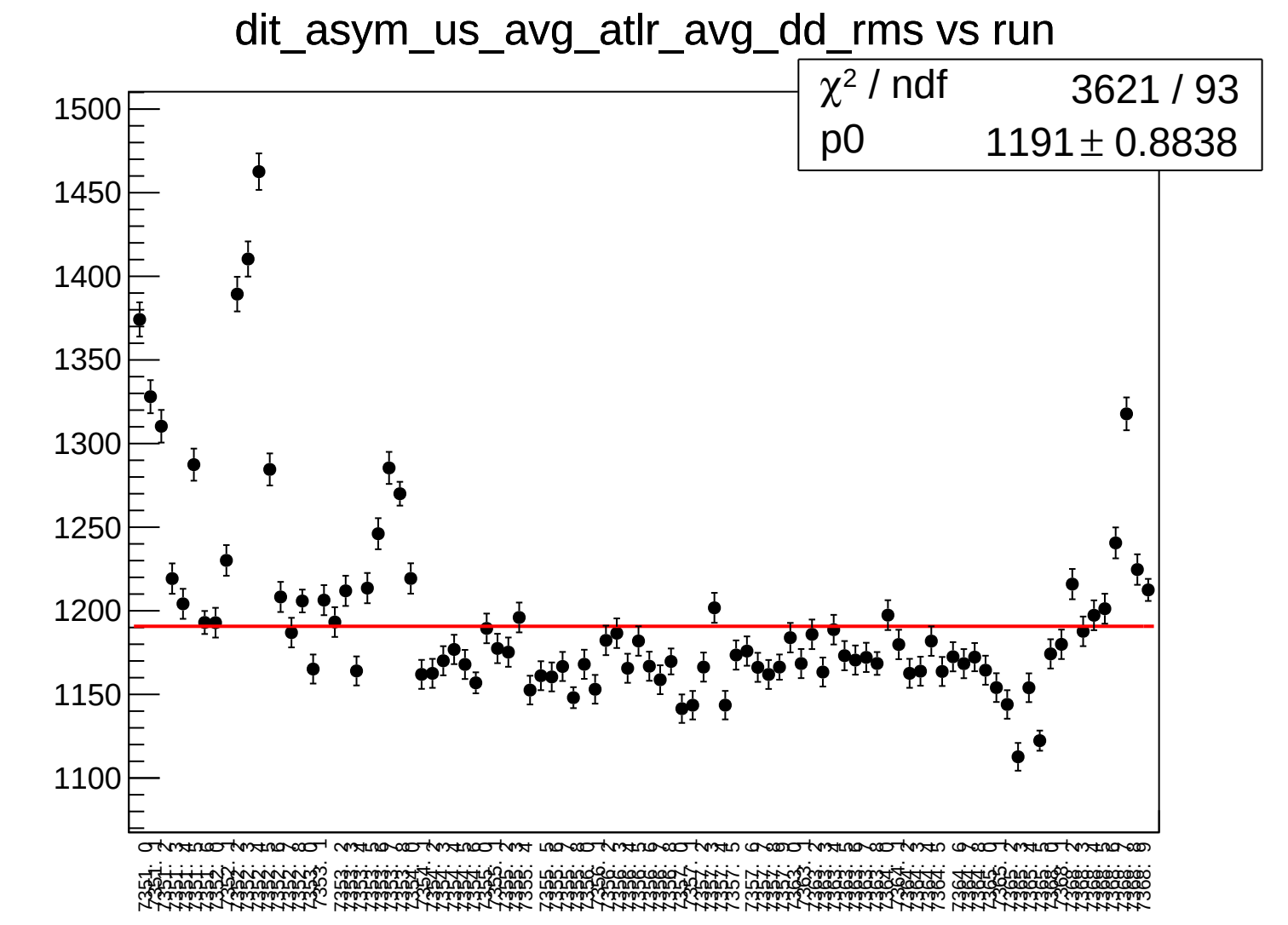

asym_us_avg_atlr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 75.48 / 93
p0 −4294 ± 4294
100
50
0
−50
−100
−150
pull
Entries 94
Mean −111
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

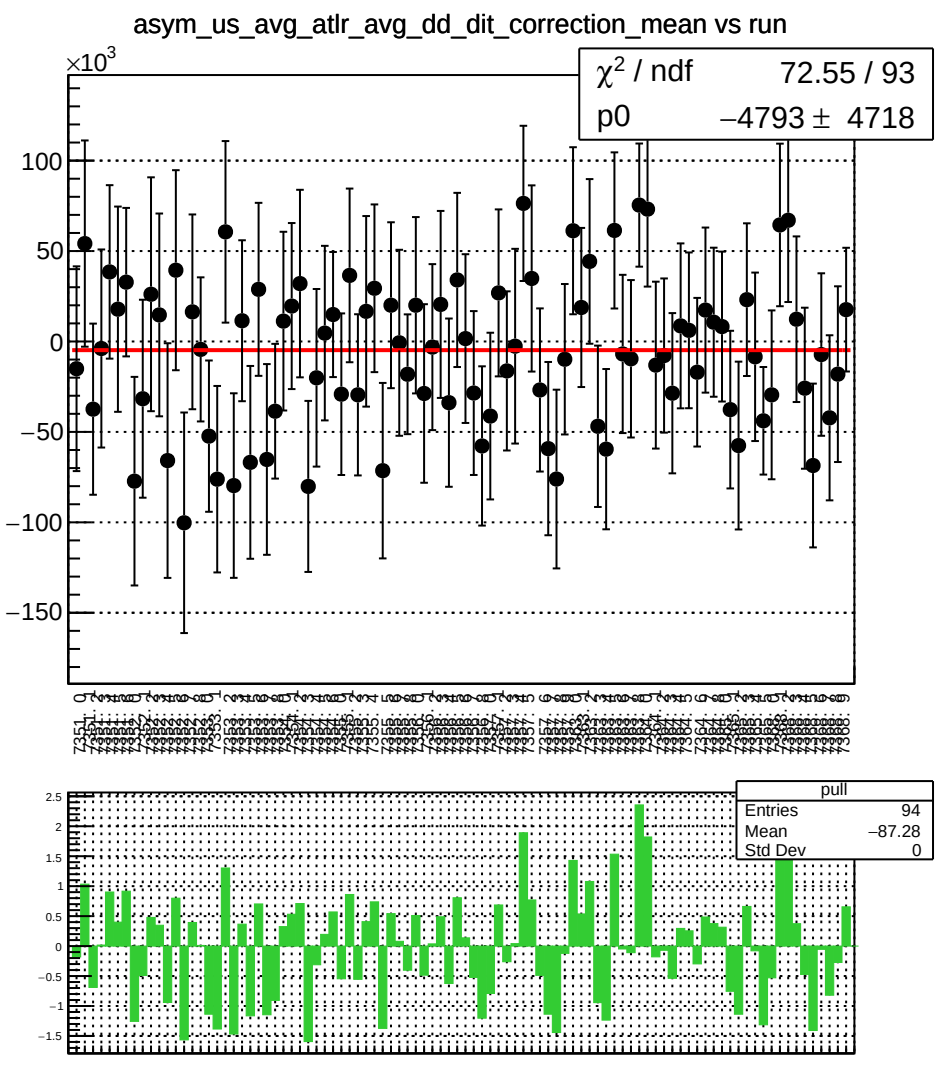

pull1D
Entries 94
Mean −0.01226
Std Dev 0.896
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

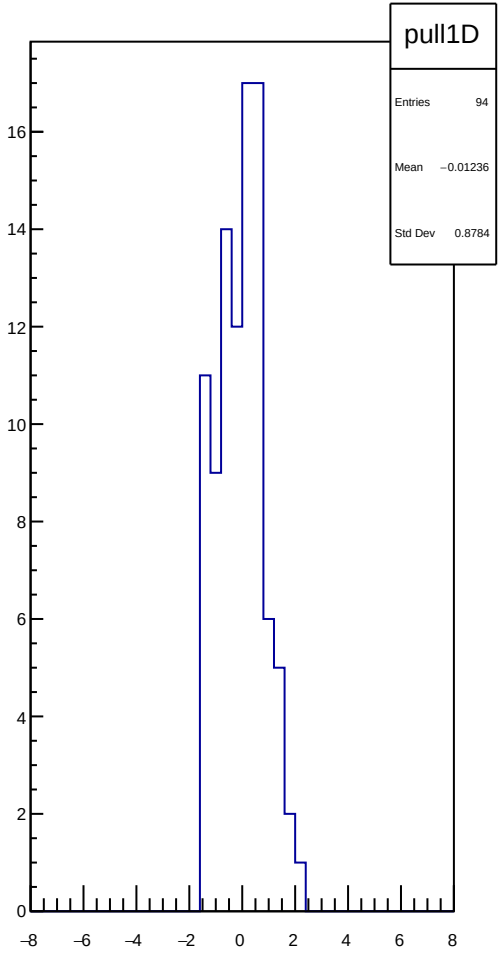

asym_us_avg_atlr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.5e+04 / 93
p0 4078 ± 3.037
6000
5500
5000
4500
4000
3500

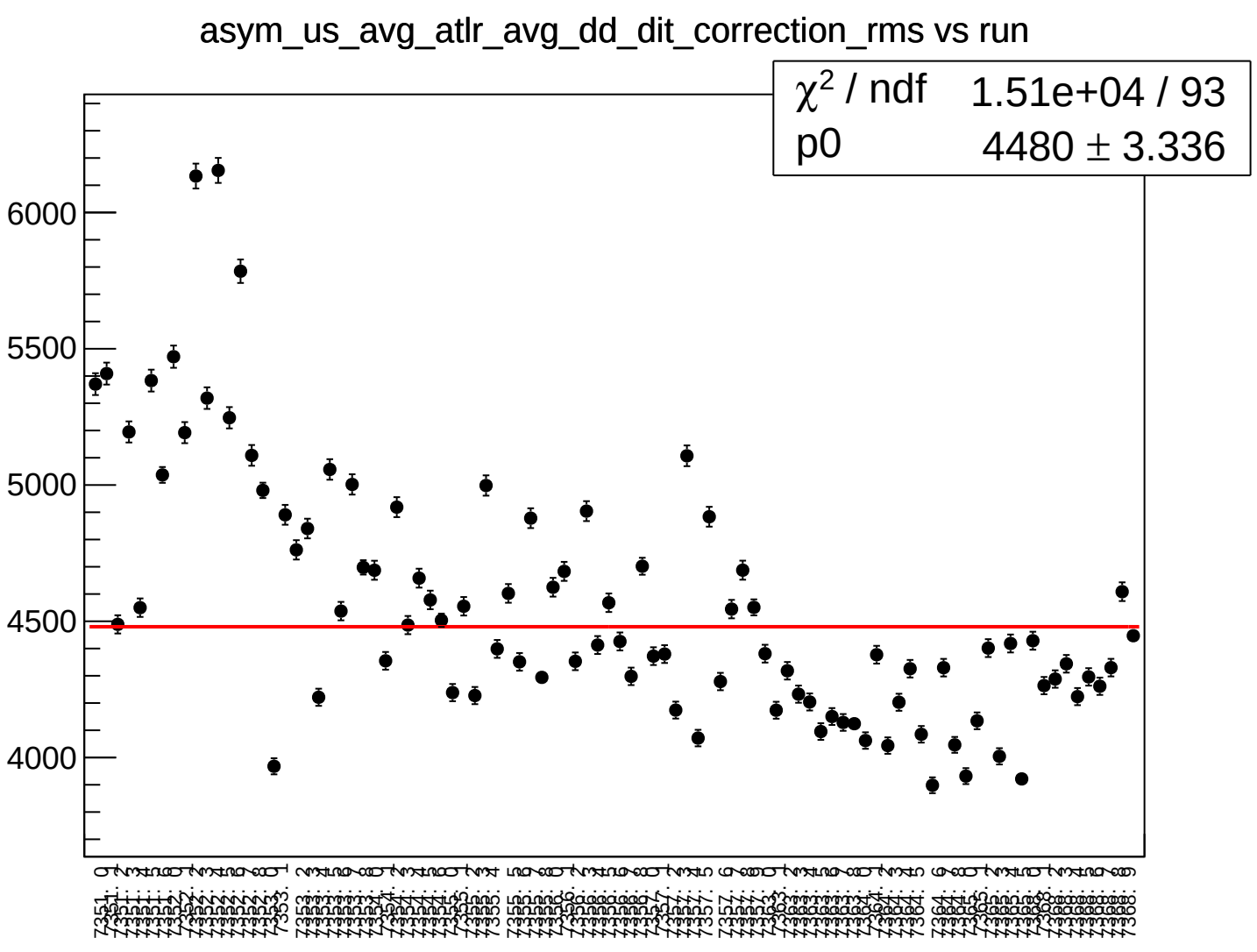

dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 73.7 / 93
p0 517.9 ± 1250
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −697.4
Std Dev 0
3
2
1
0
−1

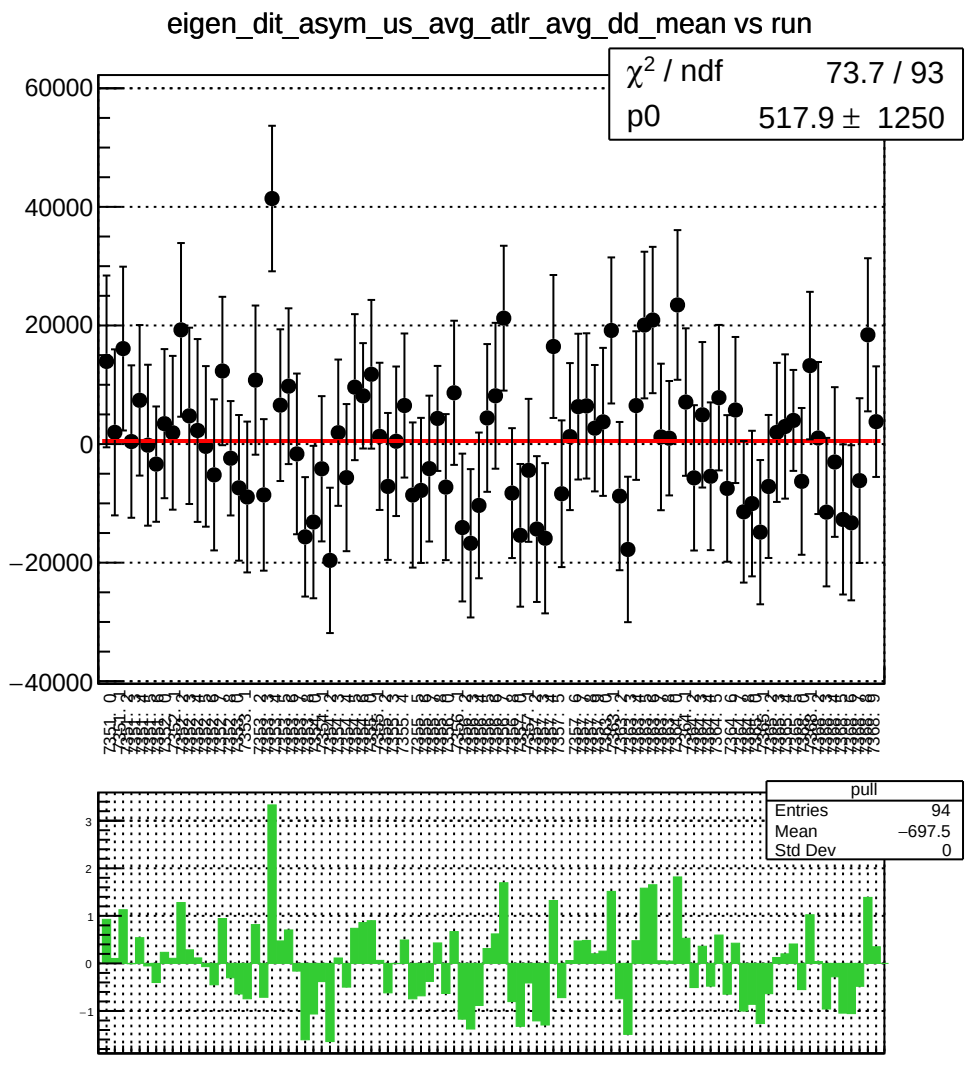

pull1D
Entries 94
Mean 0.003104
Std Dev 0.8855
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

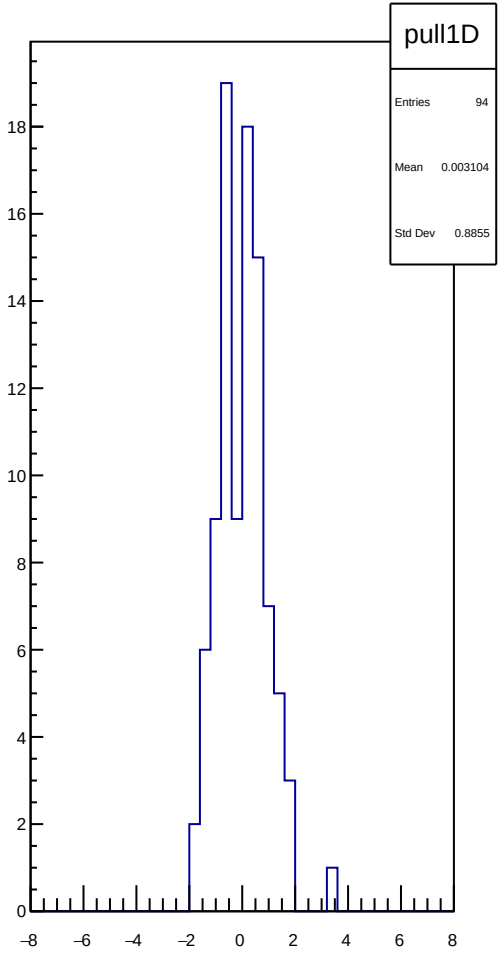

dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 3621 / 93
p0 1191 ± 0.8838
1500
1450
1400
1350
1300
1250
1200
1150
1100

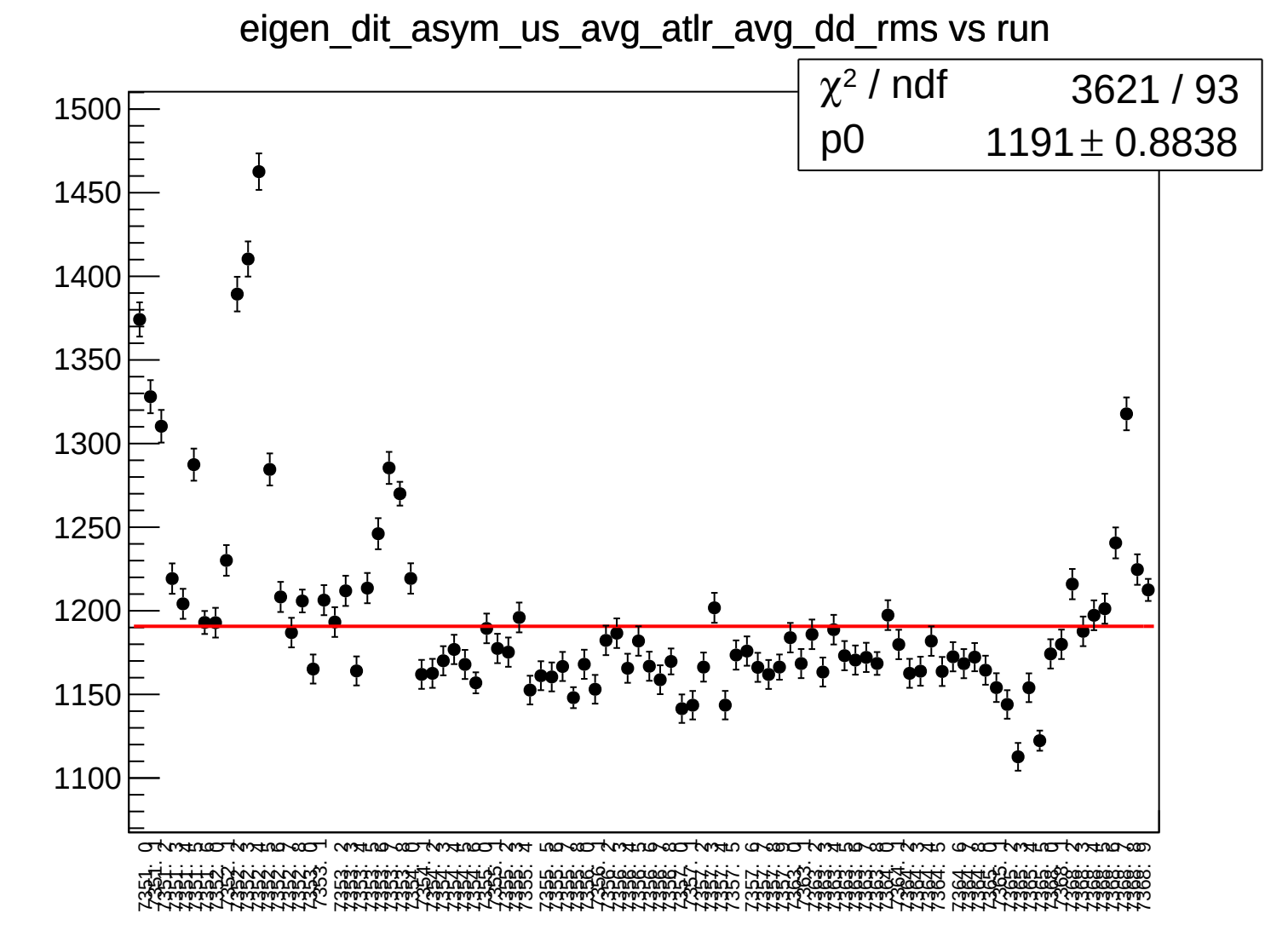

asym_us_avg_atlr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 72.55 / 93
p0 −4793 ± 4718
100
50
0
−50
−100
−150
pull
Entries 94
Mean −87.28
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

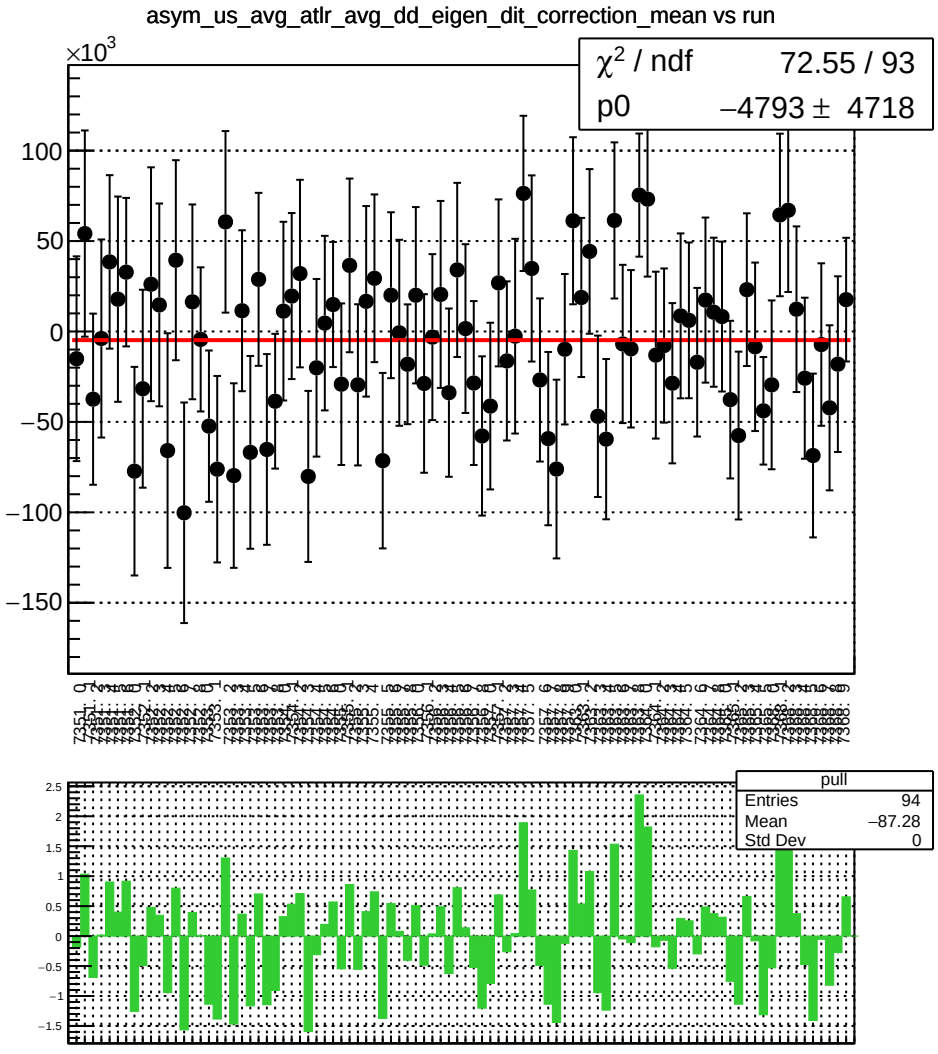

pull1D
Entries 94
Mean −0.01236
Std Dev 0.8784
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

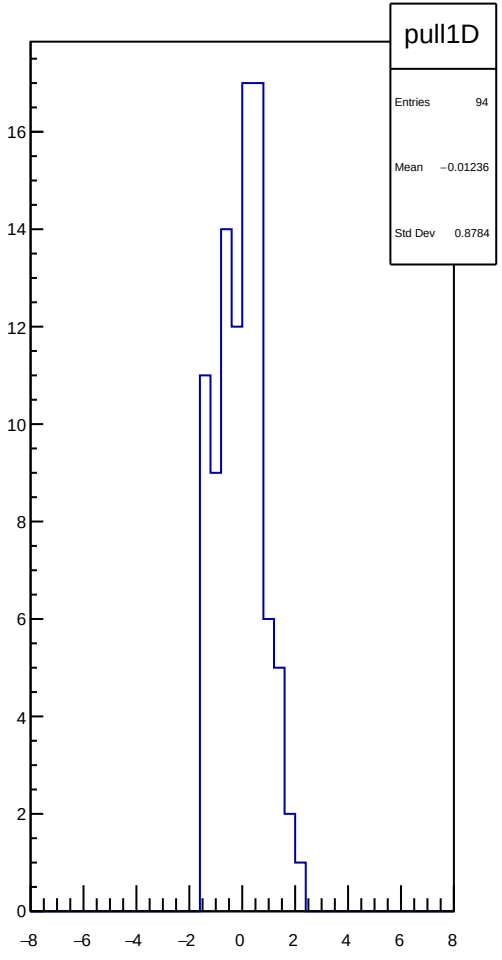

asym_us_avg_atlr_avg_dd_dit_correction_rms vs run
χ^2 / ndf 1.51e+04 / 93
p0 4480 ± 3.336
6000
5500
5000
4500
4000

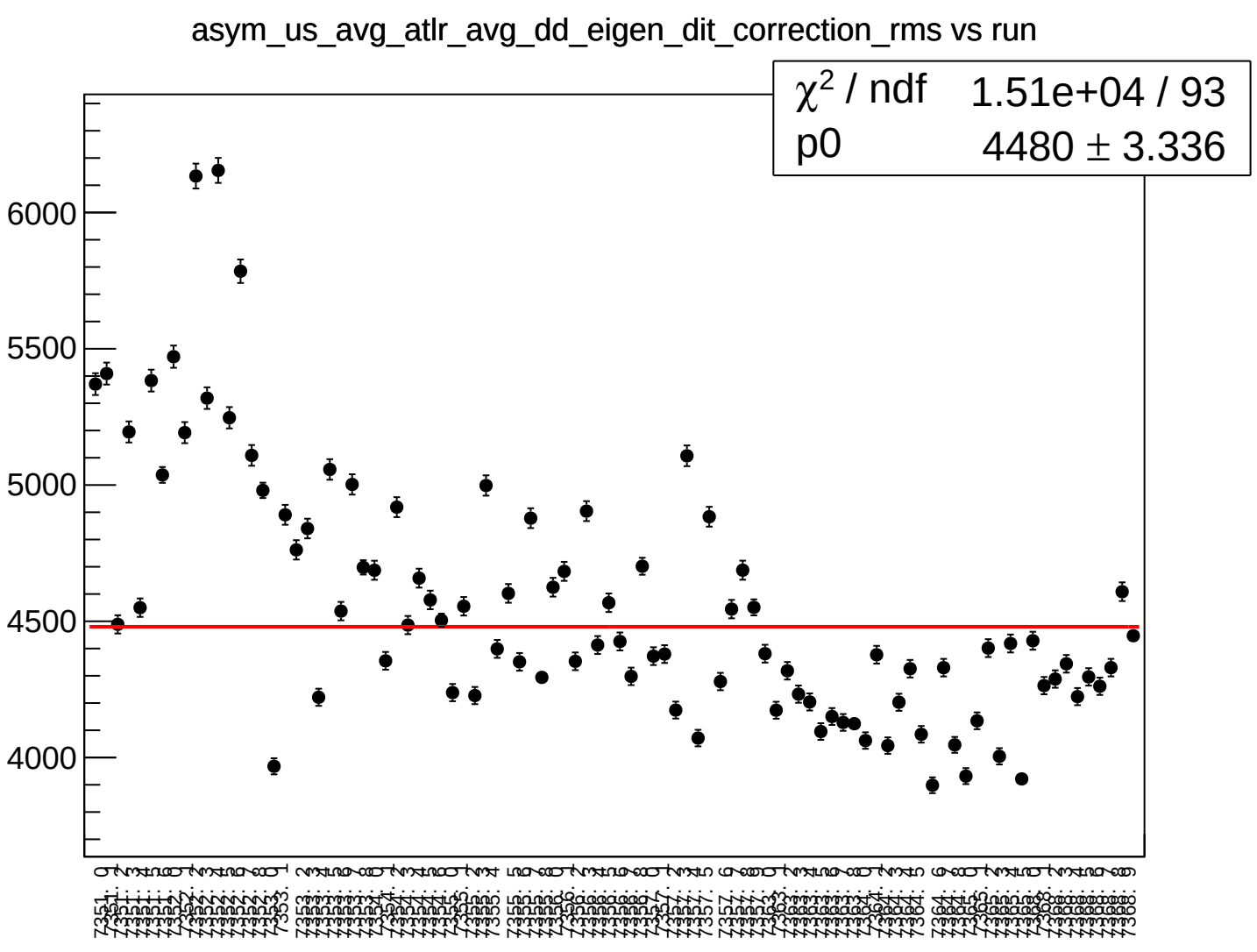

eigen_dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 73.7 / 93
p0 517.9 ± 1250
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −697.5
Std Dev 0
3
2
1
0
−1

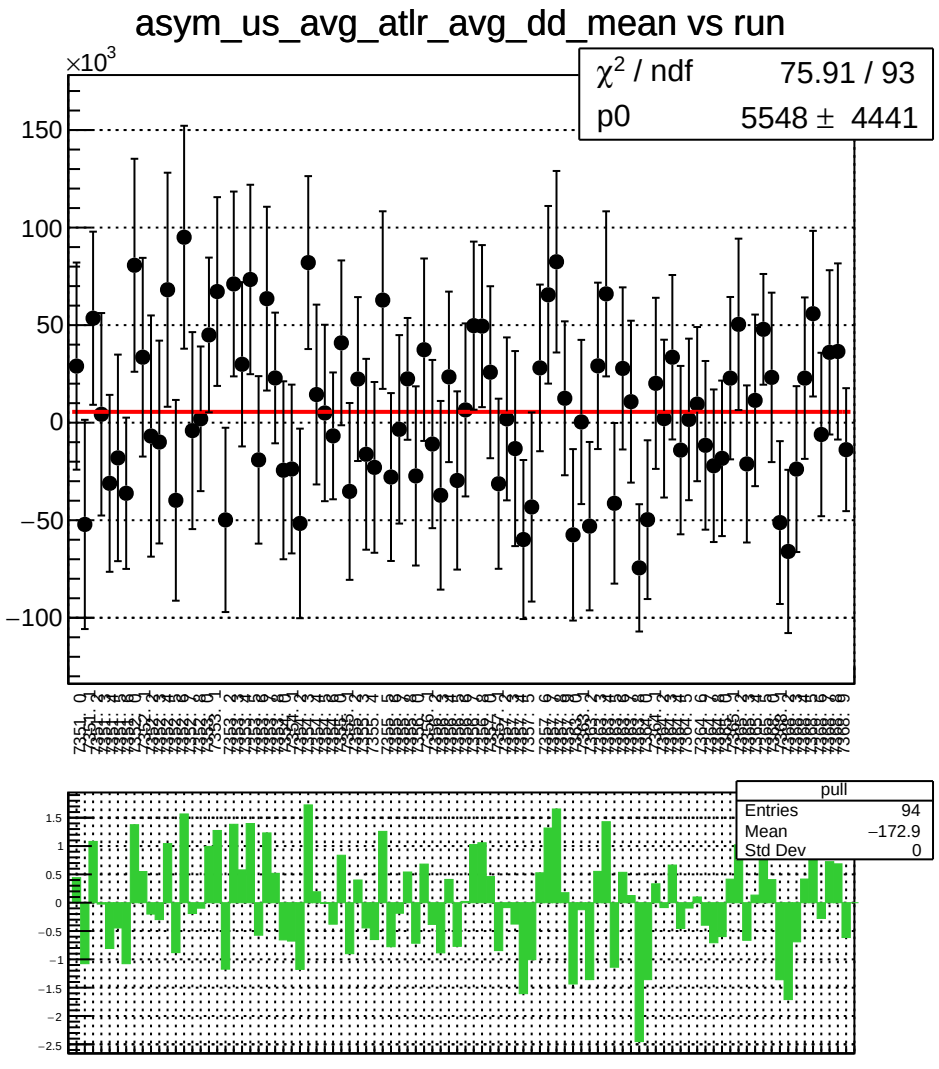

pull1D
Entries 94
Mean 0.003104
Std Dev 0.8855
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

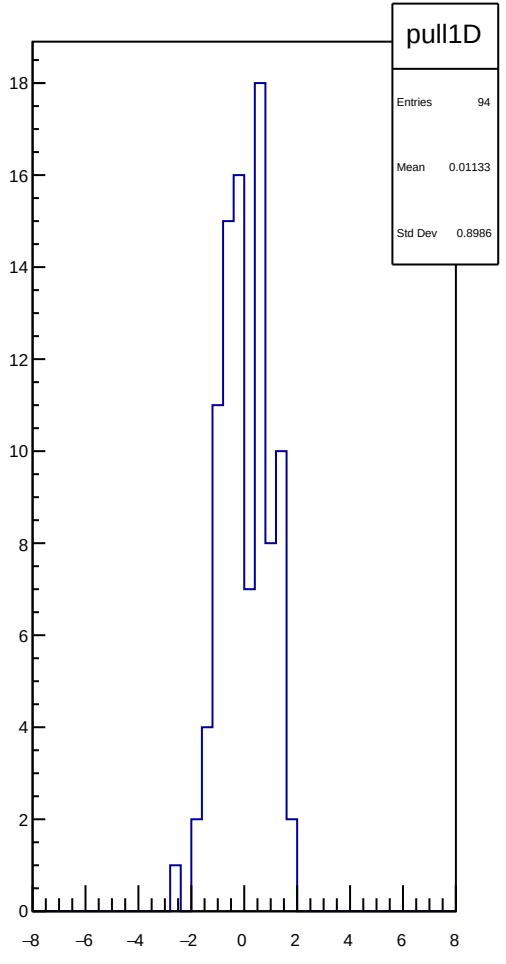

eigen_dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 3621 / 93
p0 1191 ± 0.8838
1500
1450
1400
1350
1300
1250
1200
1150
1100

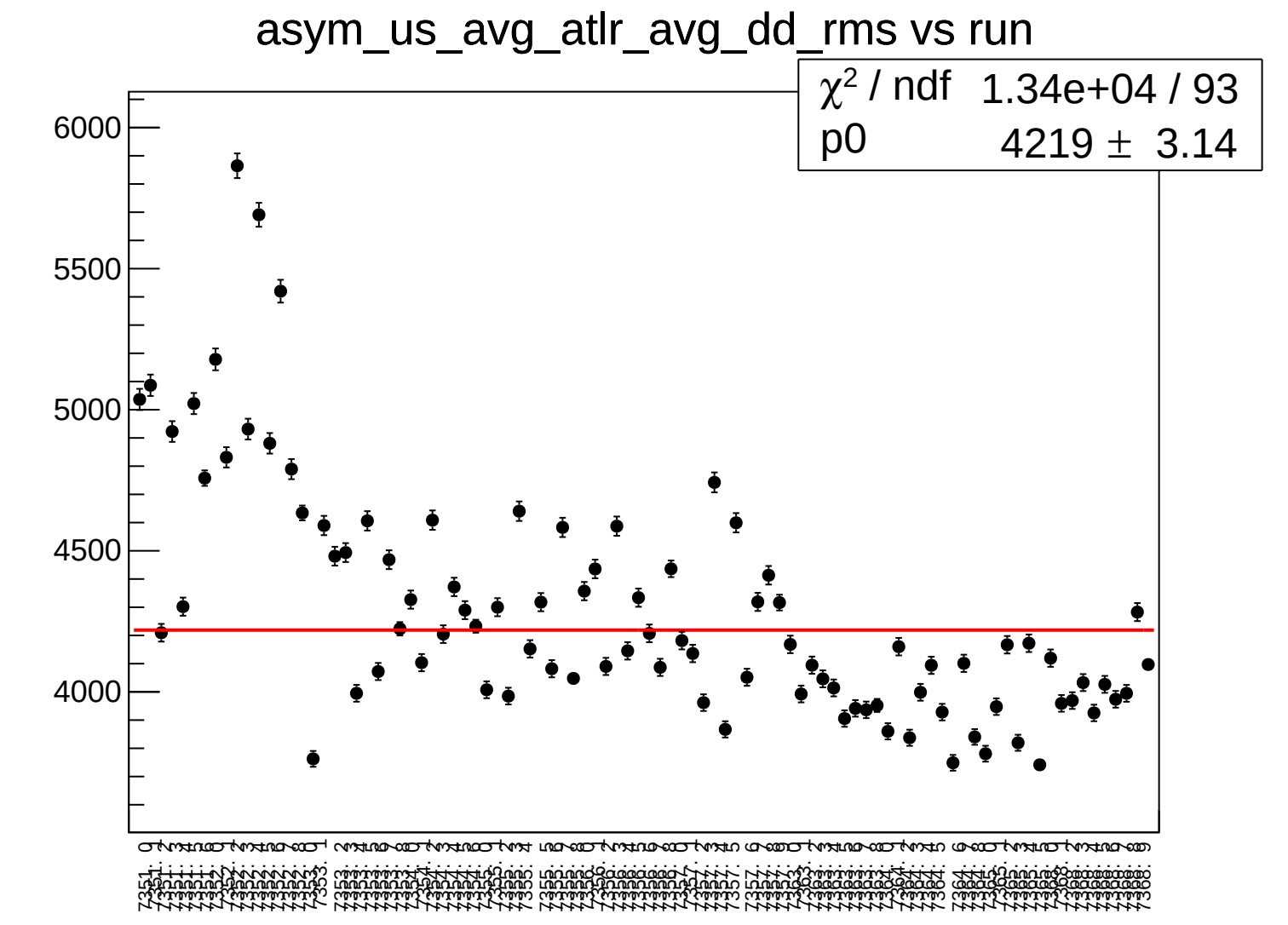

asym_us_avg_atlr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 72.55 / 93
p0 −4793 ± 4718
100
50
0
−50
−100
−150
pull
Entries 94
Mean −87.28
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

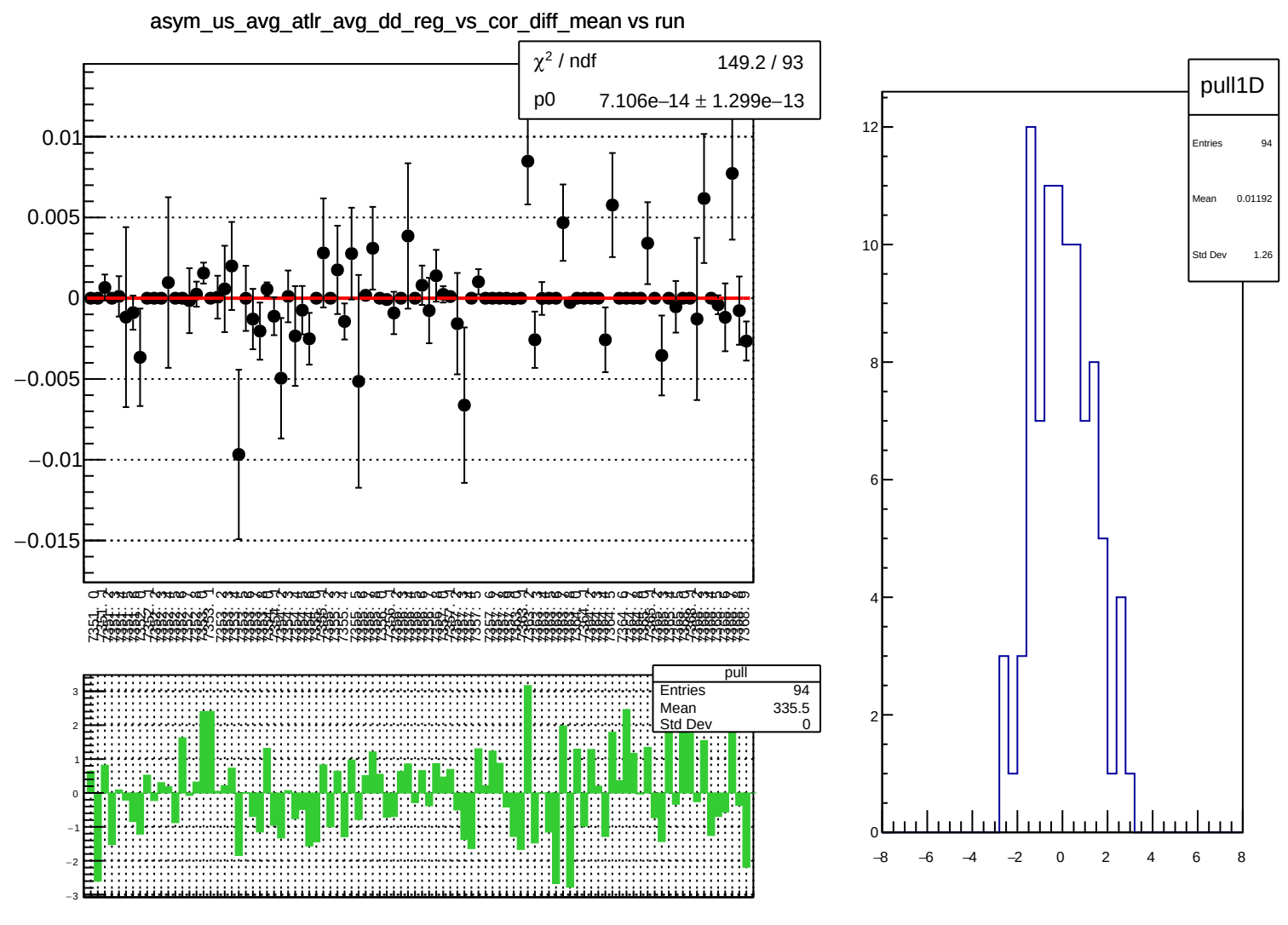

pull1D
Entries 94
Mean −0.01236
Std Dev 0.8784
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

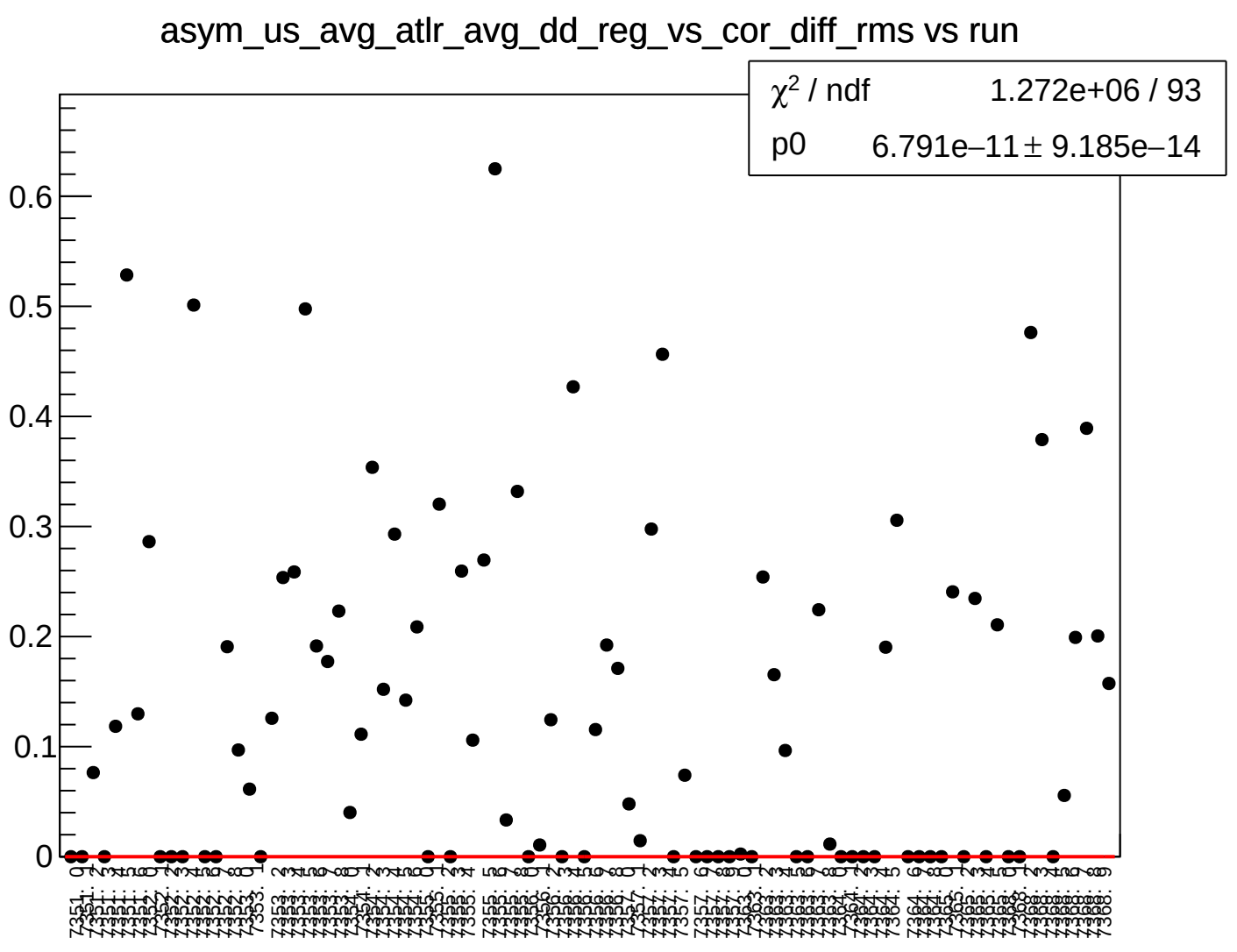

asym_us_avg_atlr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.51e+04 / 93
p0 4480 ± 3.336
6000
5500
5000
4500
4000

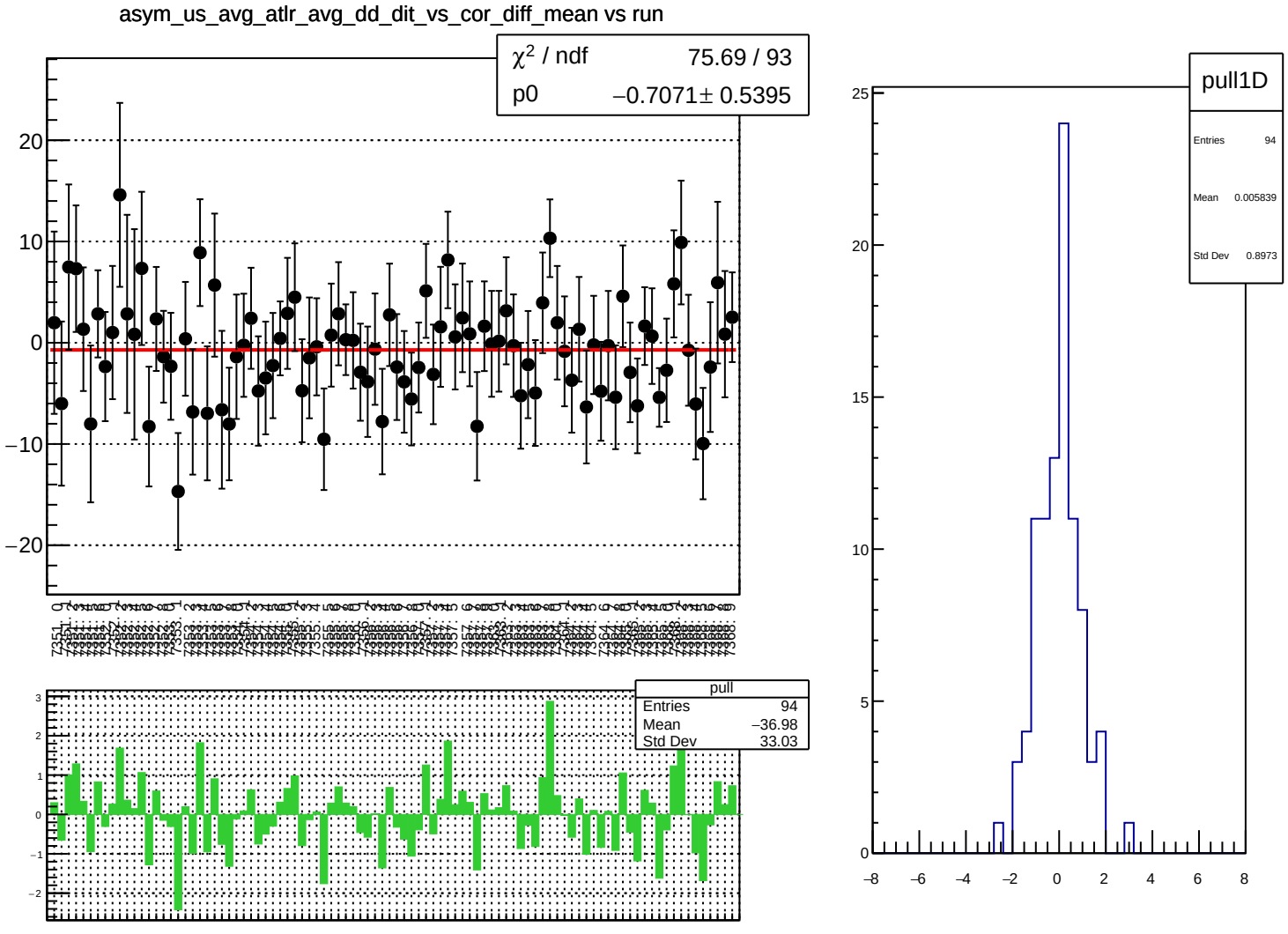

asym_us_avg_atlr_avg_dd_mean vs run
×10^3
χ^2 / ndf 75.91 / 93
p0 5548 ± 4441
150
100
50
0
−50
−100
pull
Entries 94
Mean −172.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

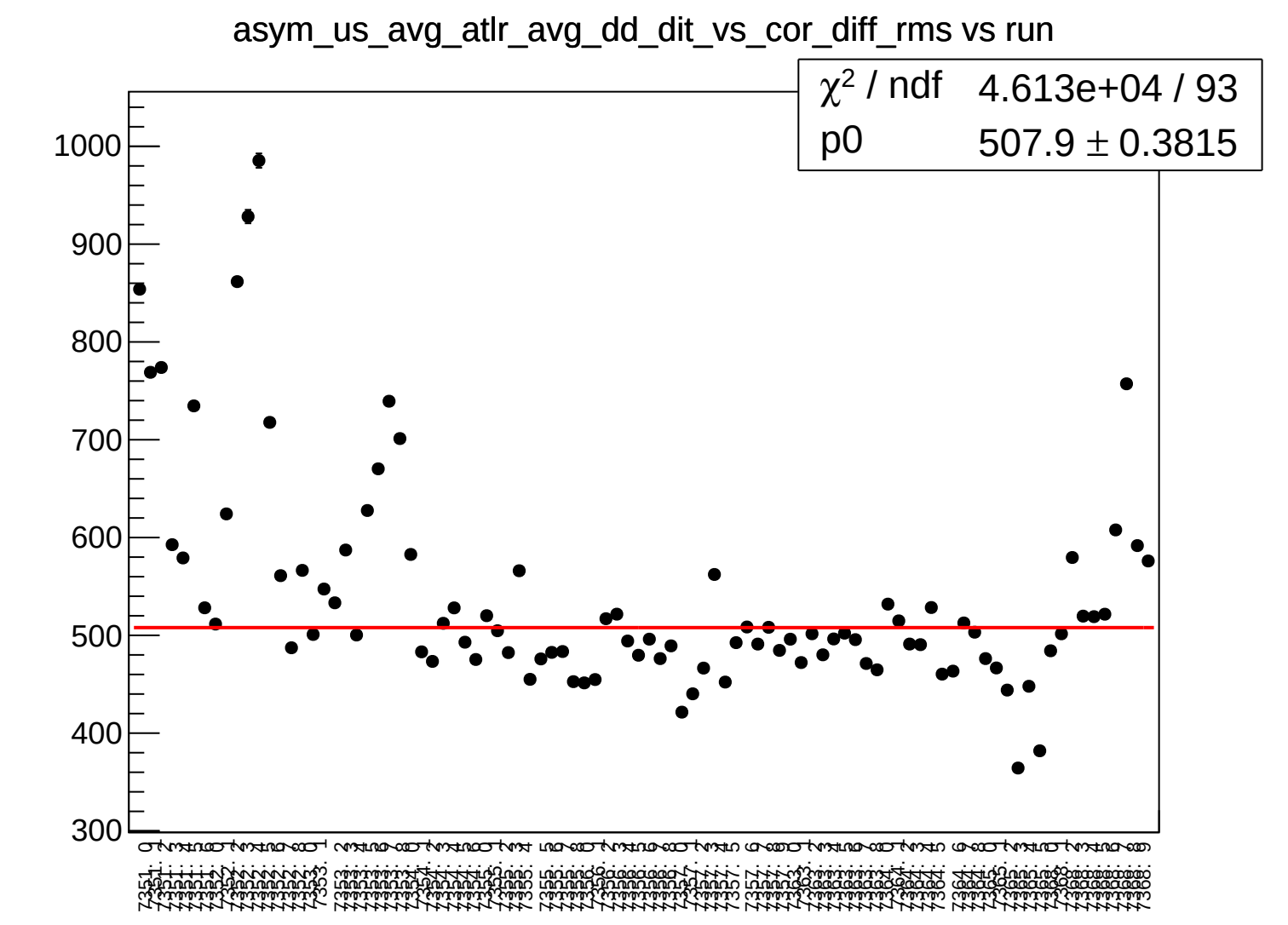

pull1D
Entries 94
Mean 0.01133
Std Dev 0.8986
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

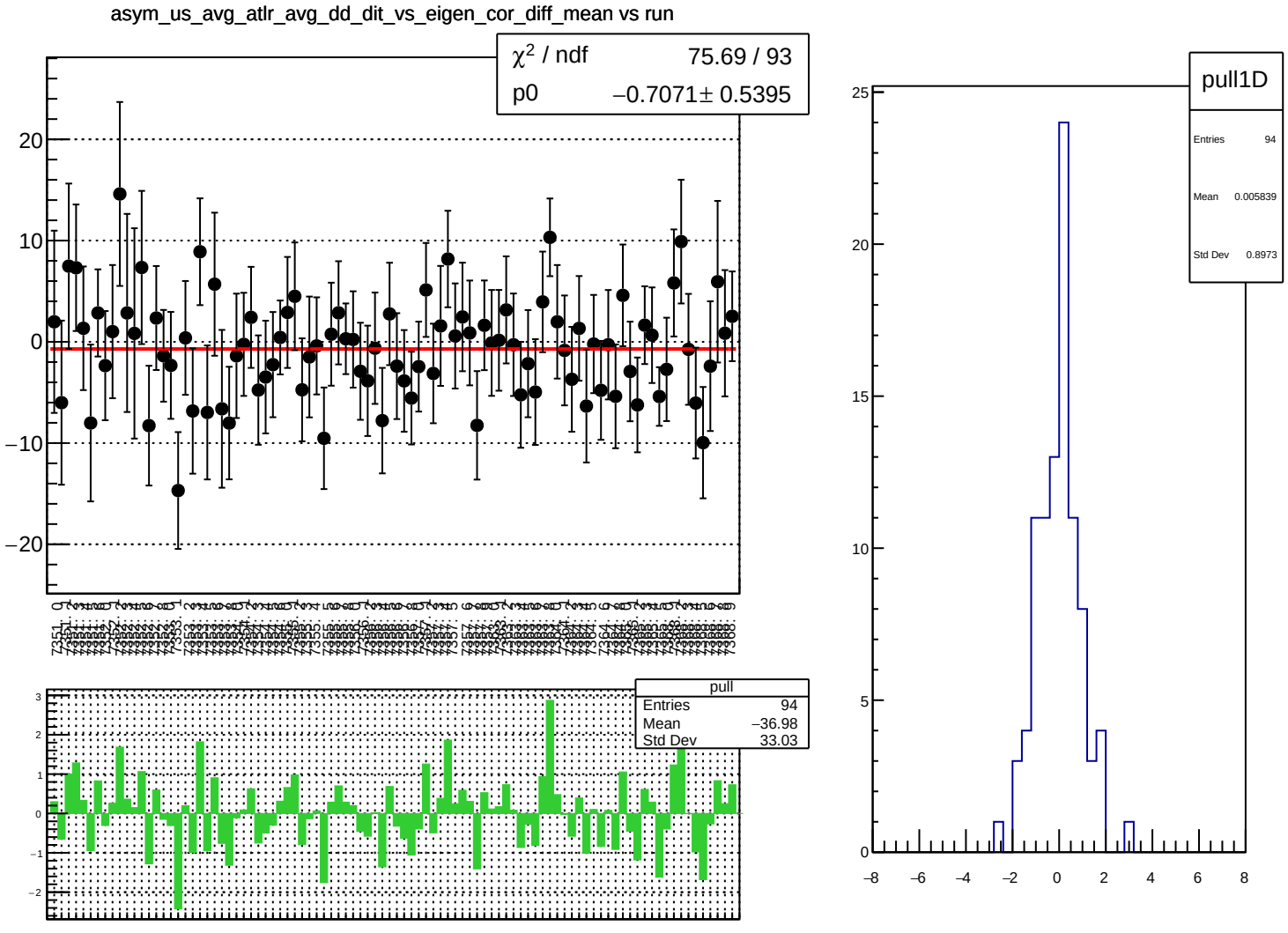

asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 1.34e+04 / 93
p0 4219 ± 3.14
6000
5500
5000
4500
4000

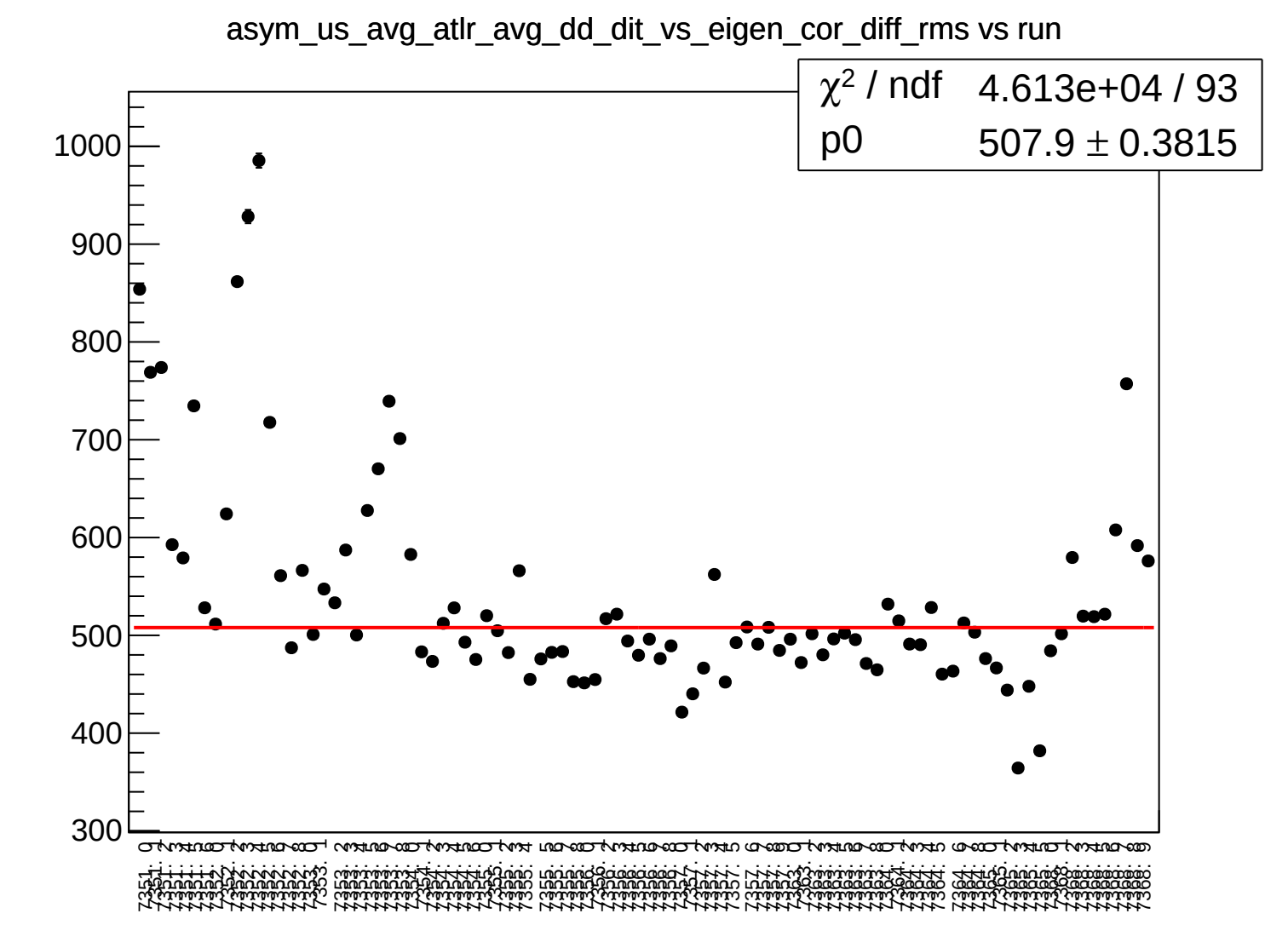

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 149.2 / 93
p0 7.106e−14 ± 1.299e−13
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 94
Mean 335.5
Std Dev 0
pull1D
Entries 94
Mean 0.01192
Std Dev 1.26
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

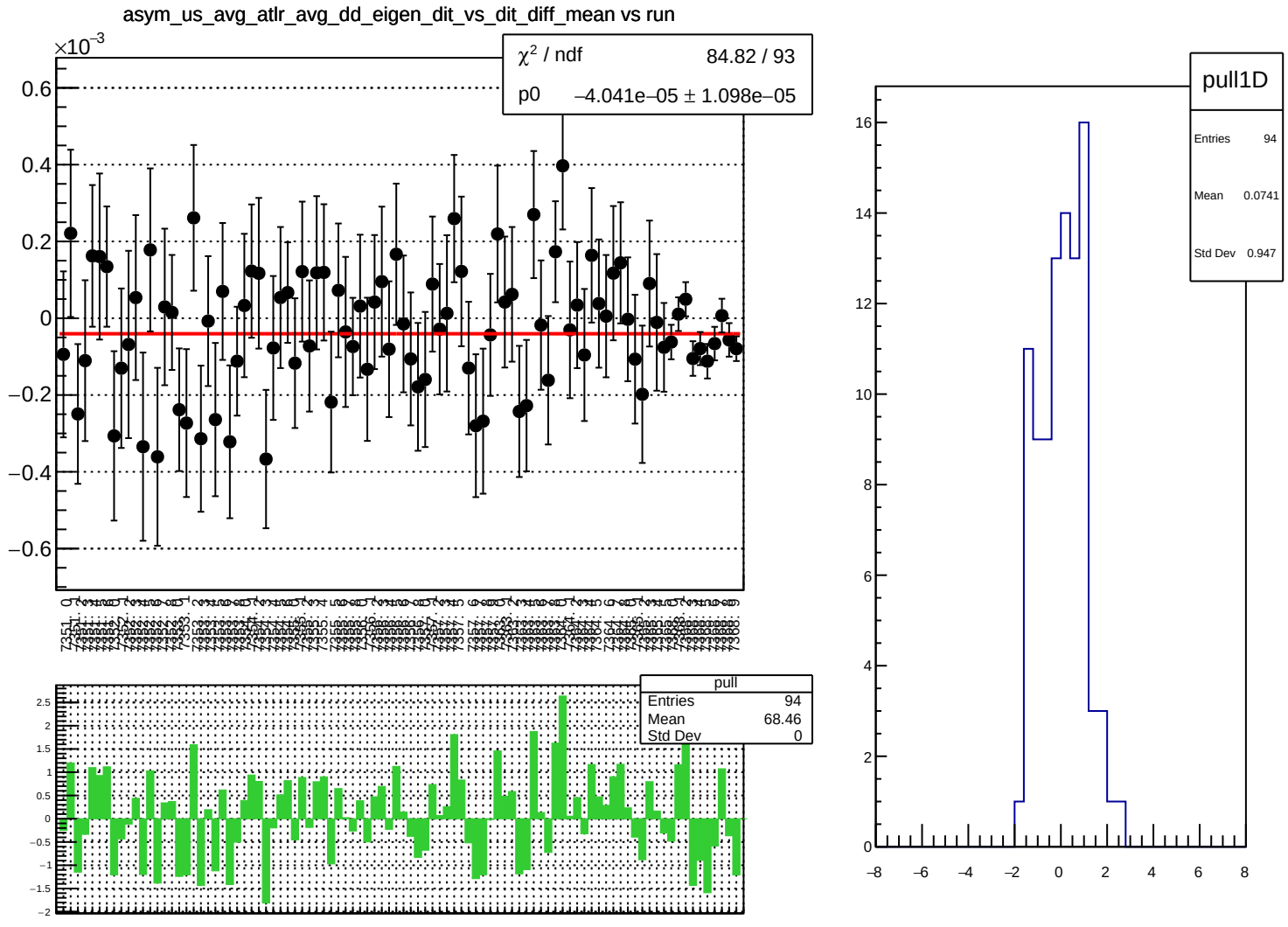

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.272e+06 / 93
p0 6.791e−11 ± 9.185e−14
0.6
0.5
0.4
0.3
0.2
0.1
0

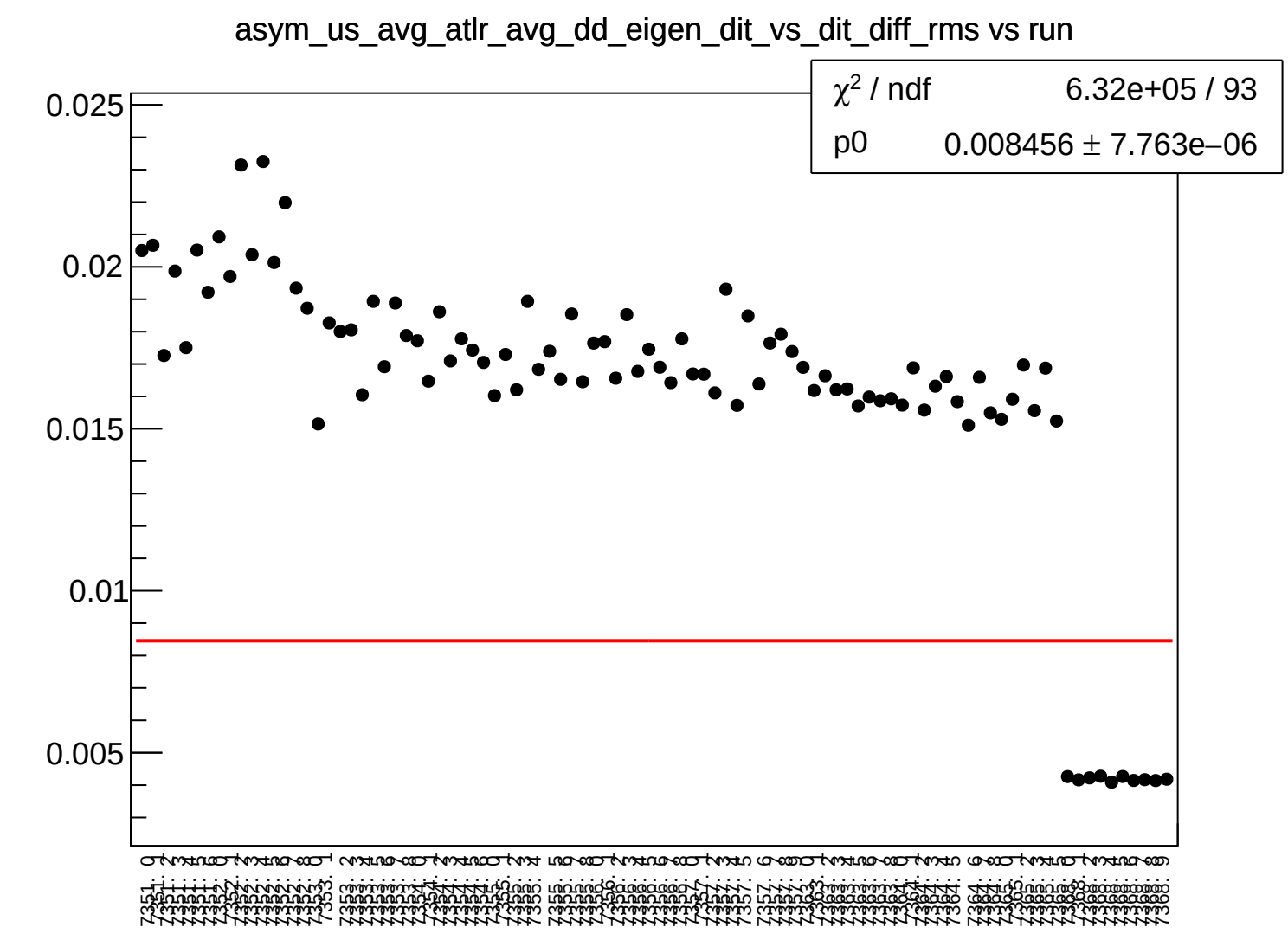

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 75.69 / 93
p0 −0.7071± 0.5395
pull
Entries 94
Mean −36.98
Std Dev 33.03
pull1D
Entries 94
Mean 0.005839
Std Dev 0.8973

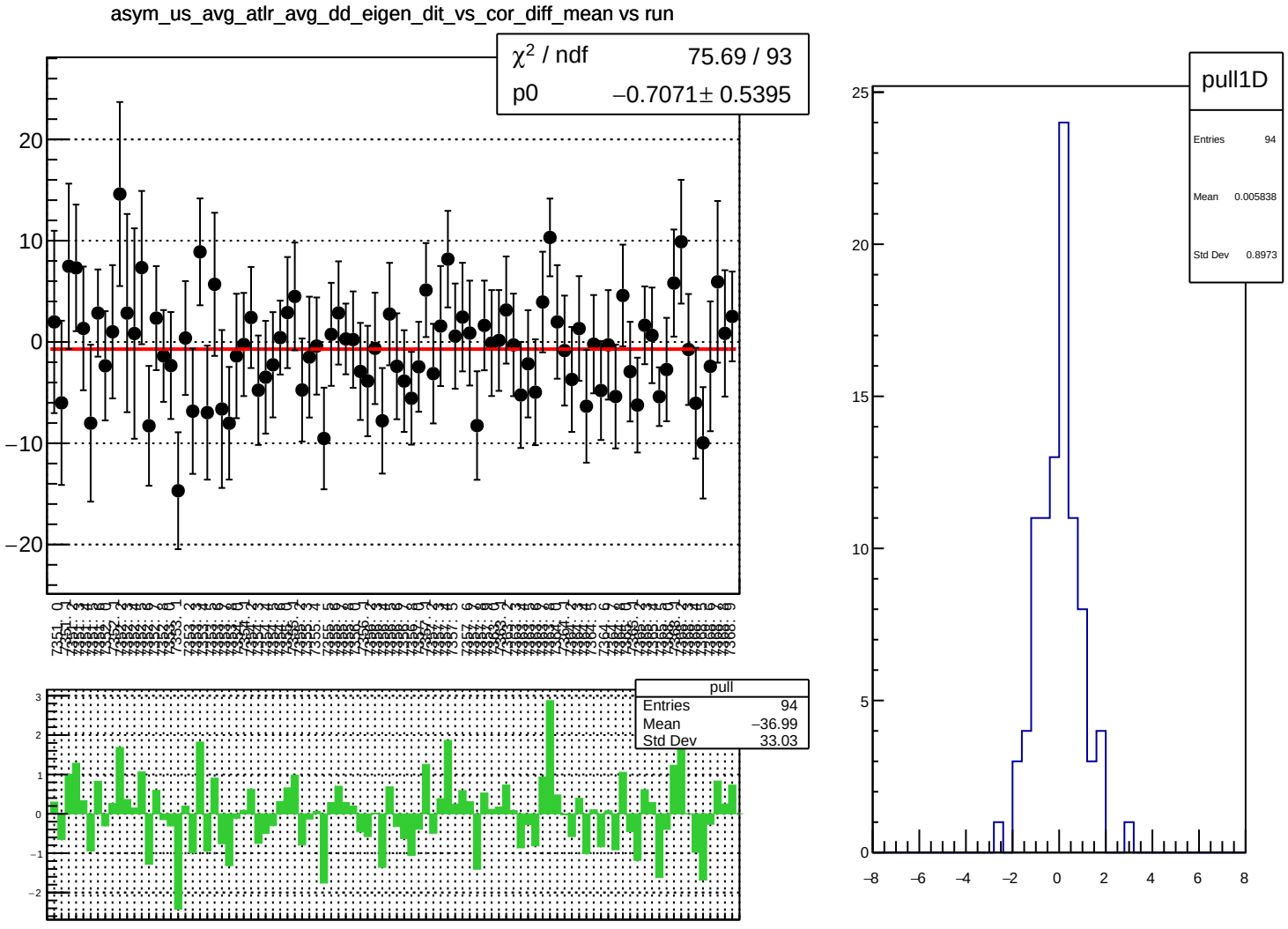

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.613e+04 / 93
p0 507.9 ± 0.3815
1000
900
800
700
600
500
400
300

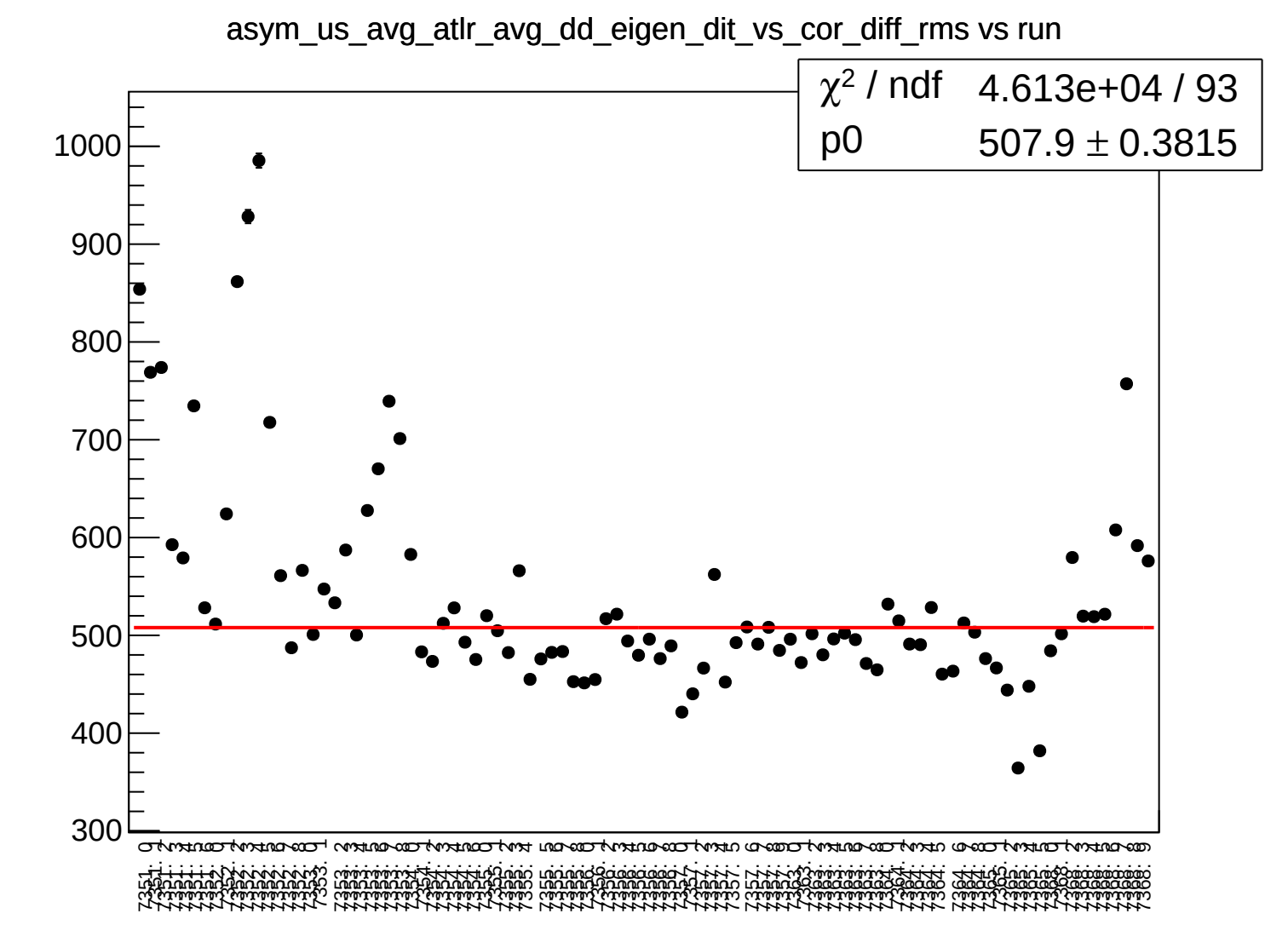

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.69 / 93
p0 −0.7071± 0.5395
pull
Entries 94
Mean −36.98
Std Dev 33.03
pull1D
Entries 94
Mean 0.005839
Std Dev 0.8973

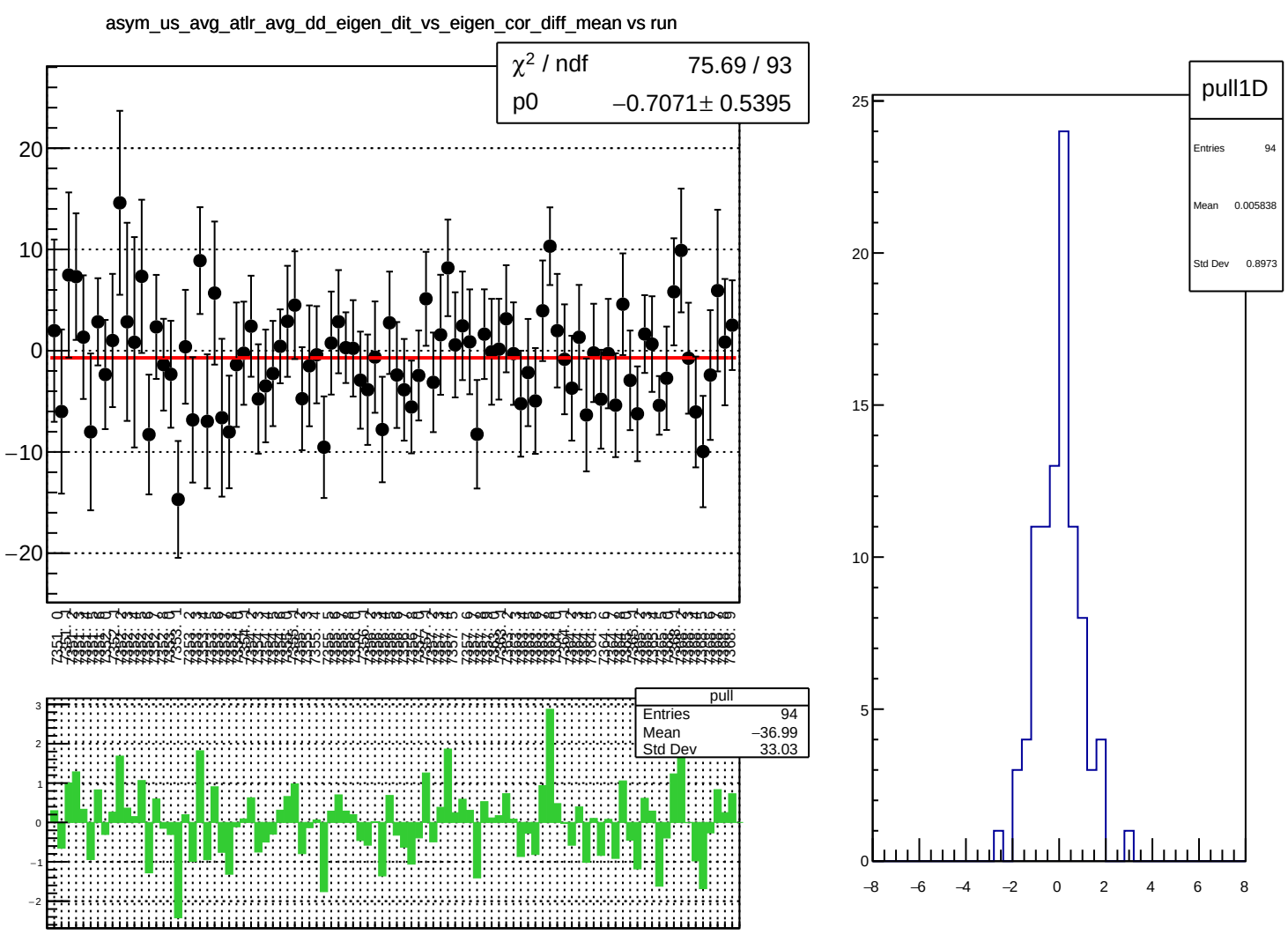

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.613e+04 / 93
p0 507.9 ± 0.3815
1000
900
800
700
600
500
400
300

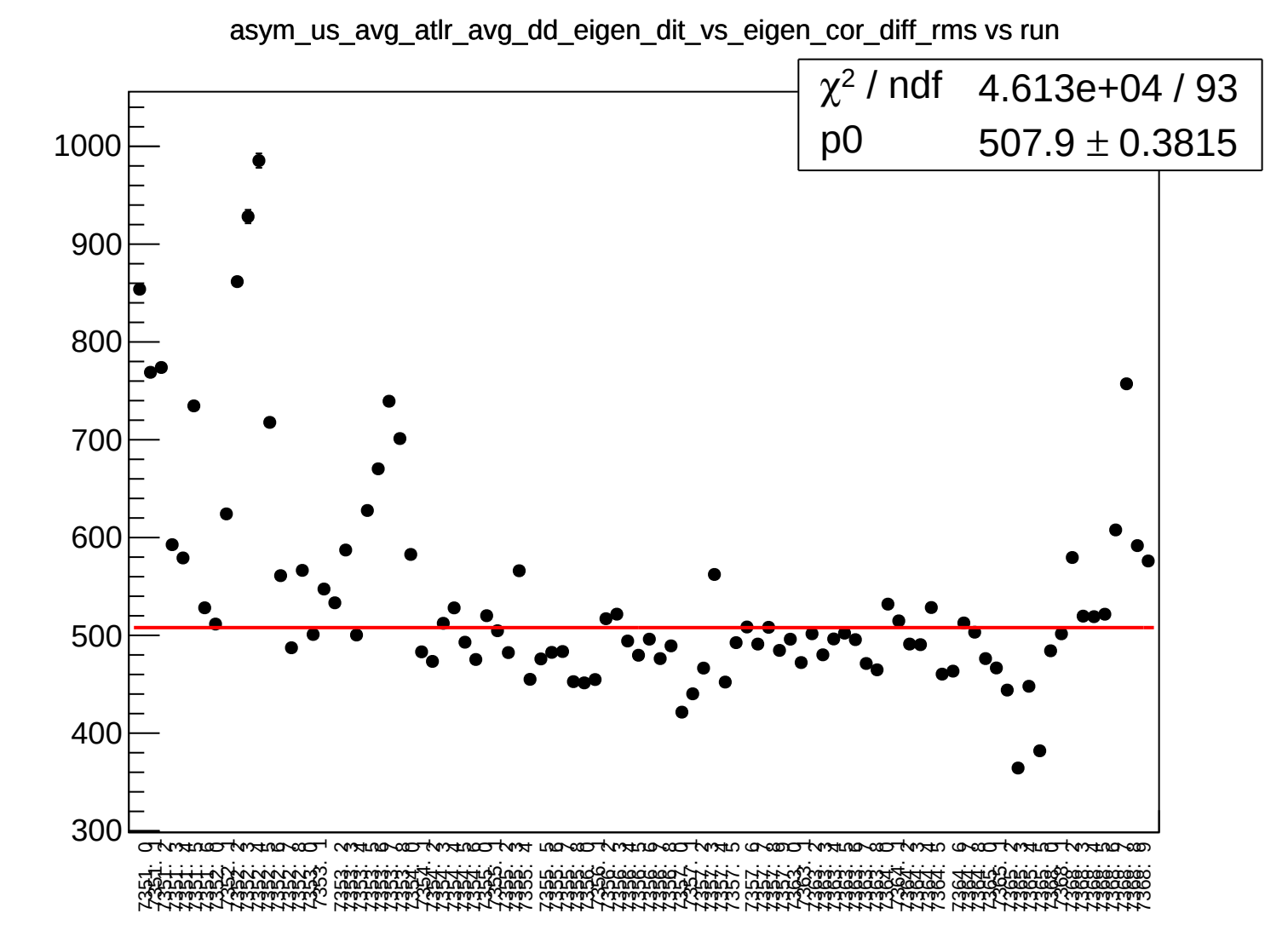

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 84.82 / 93
p0 −4.041e−05 ± 1.098e−05
pull
Entries 94
Mean 68.46
Std Dev 0
pull1D
Entries 94
Mean 0.0741
Std Dev 0.947

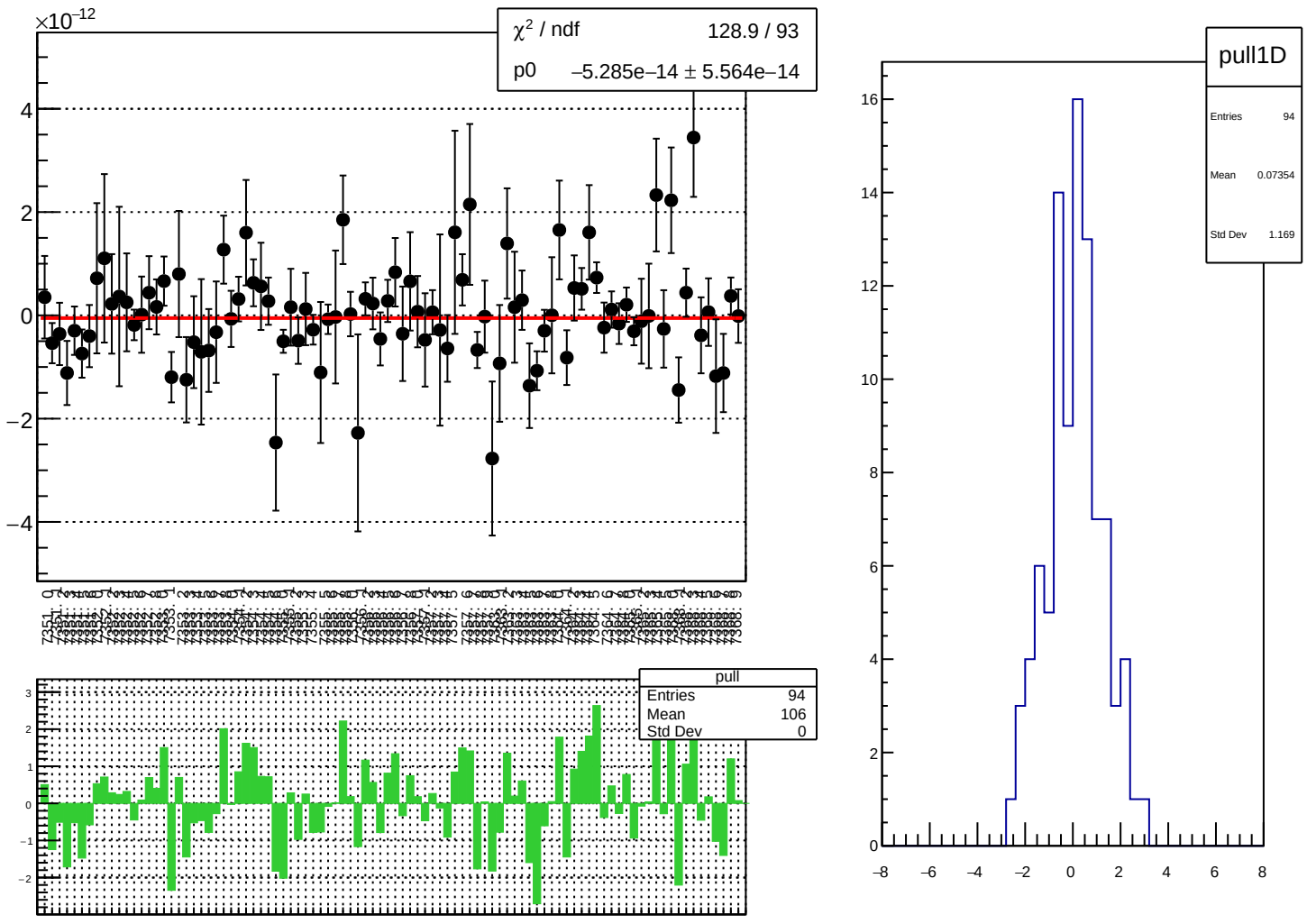

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.32e+05 / 93
p0 0.008456 ± 7.763e−06
0.025
0.02
0.015
0.01
0.005

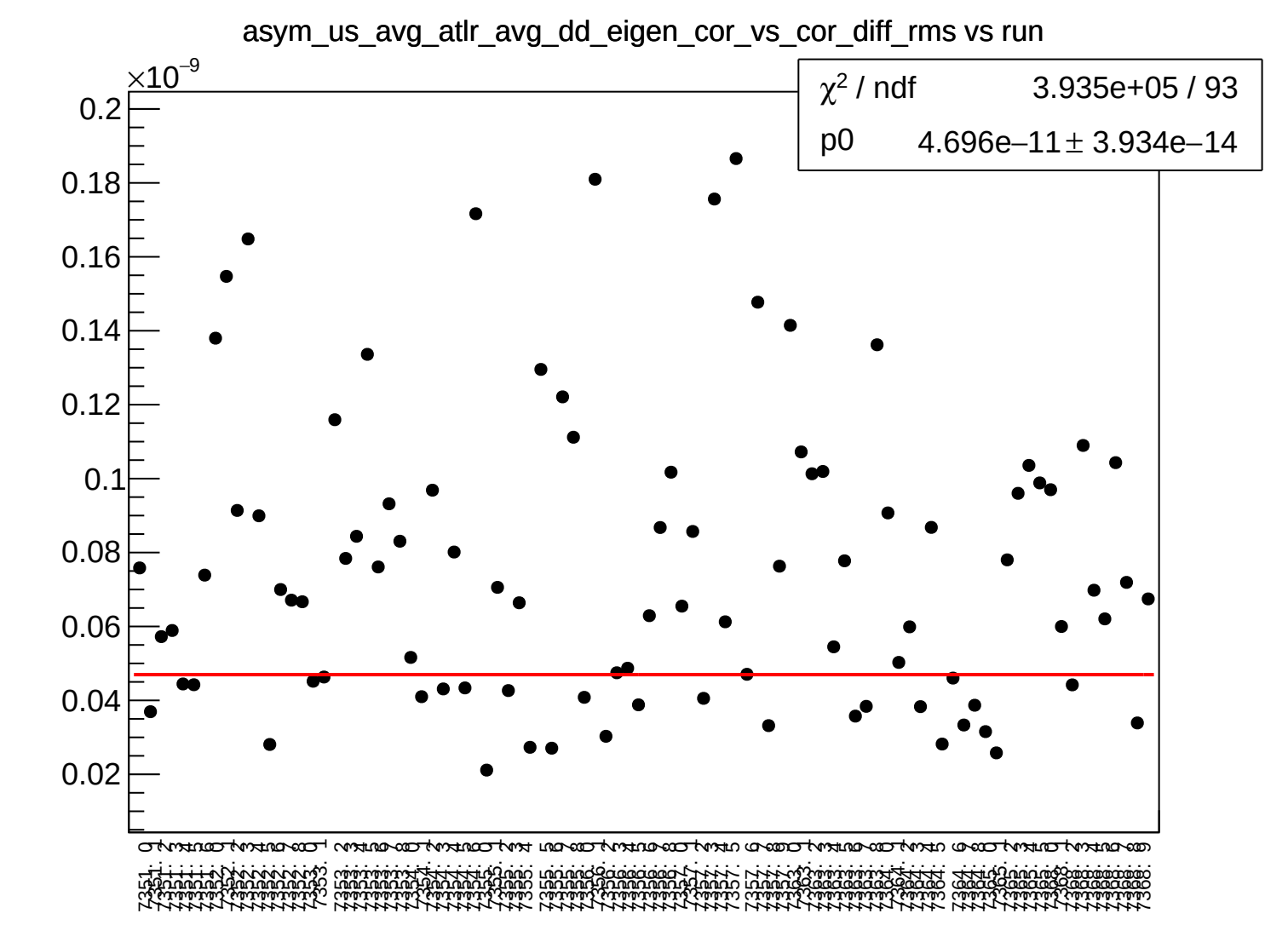

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.69 / 93
p0 −0.7071± 0.5395
20
10
0
−10
−20
pull
Entries 94
Mean −36.99
Std Dev 33.03
3
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.005838
Std Dev 0.8973
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

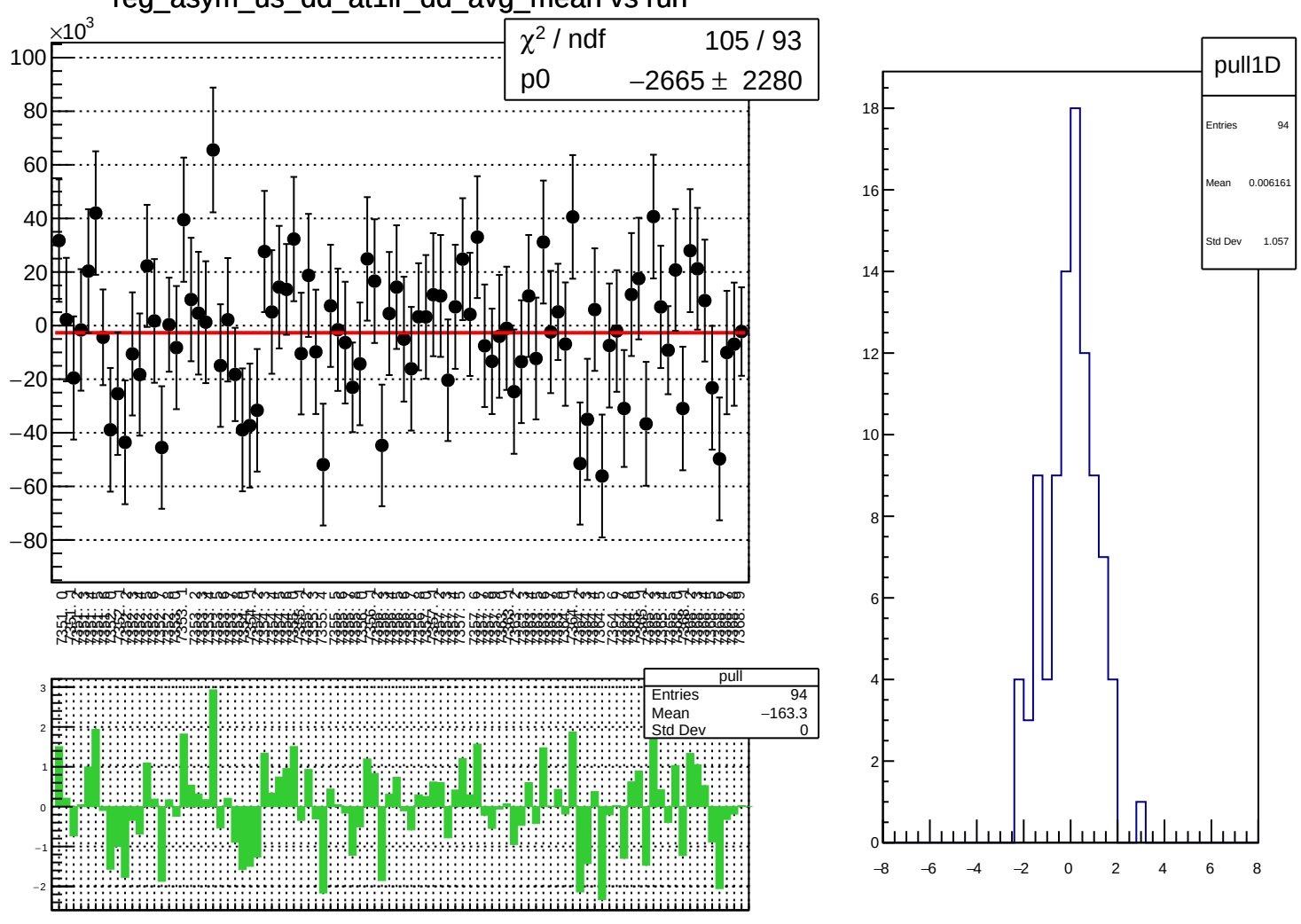

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.613e+04 / 93
p0 507.9 ± 0.3815
1000
900
800
700
600
500
400
300

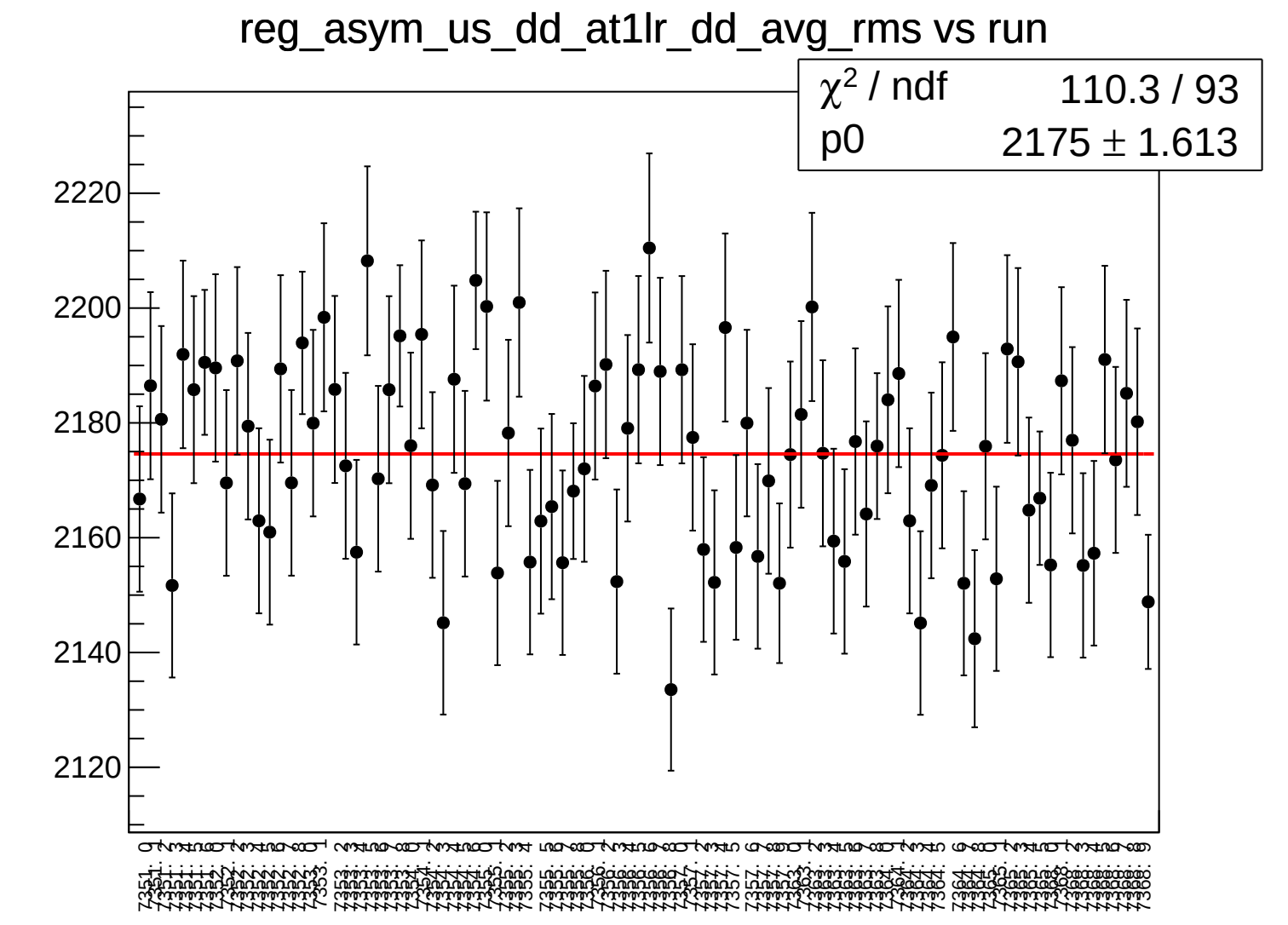

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.69 / 93
p0 −0.7071± 0.5395
20
10
0
−10
−20
pull
Entries 94
Mean −36.99
Std Dev 33.03
3
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.005838
Std Dev 0.8973
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

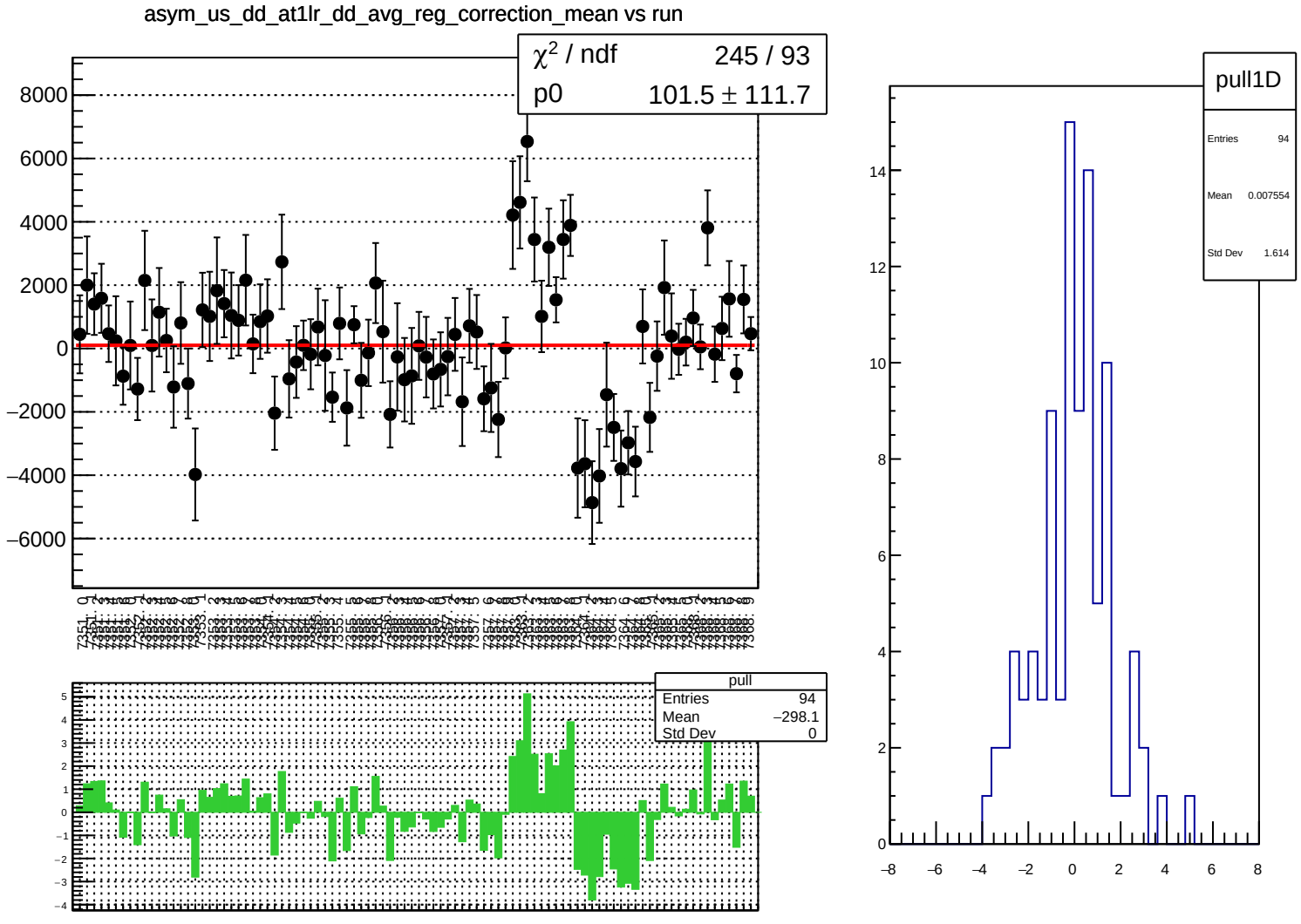

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.613e+04 / 93
p0 507.9 ± 0.3815
1000
900
800
700
600
500
400
300

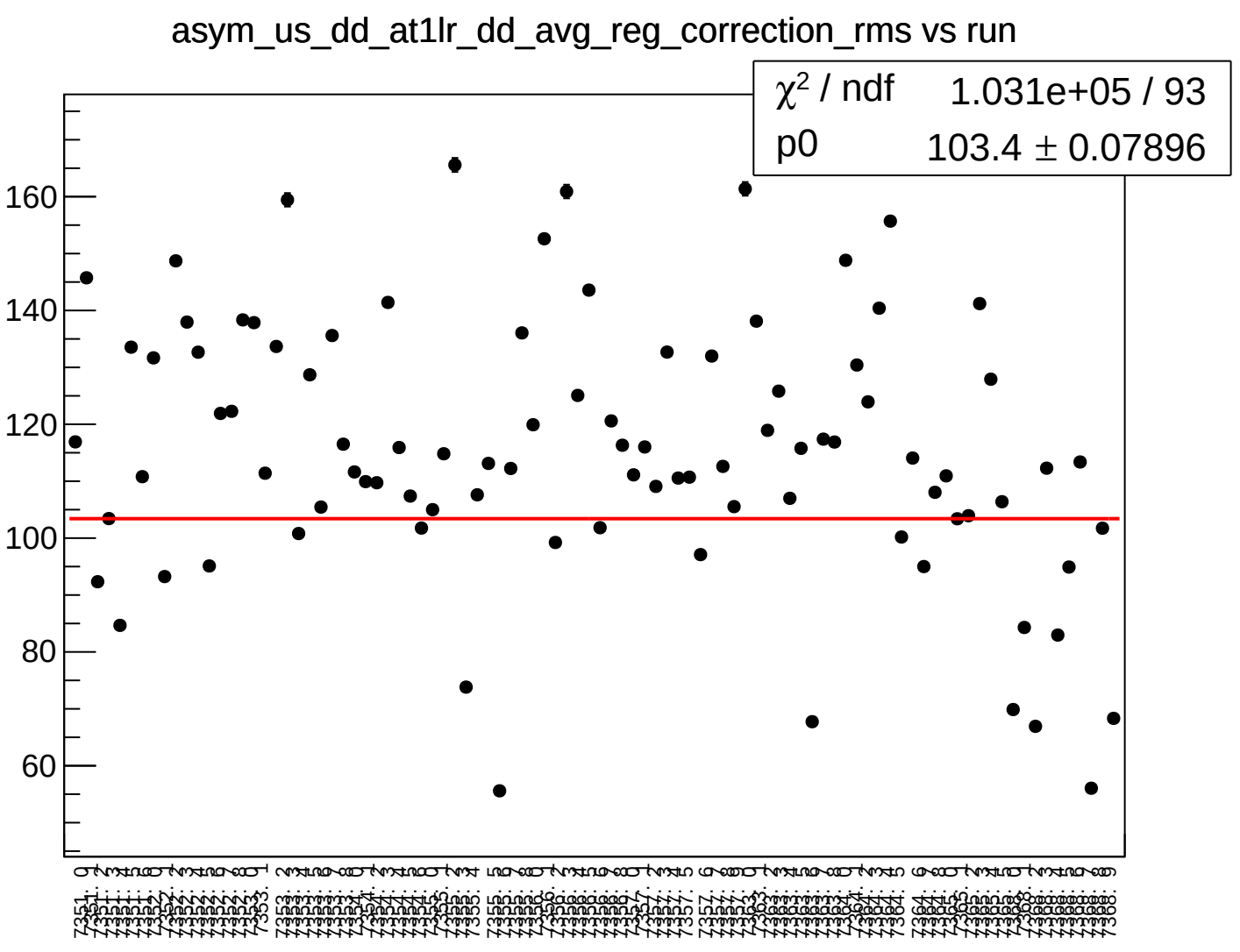

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 128.9 / 93
p0 −5.285e−14 ± 5.564e−14
pull
Entries 94
Mean 106
Std Dev 0
pull1D
Entries 94
Mean 0.07354
Std Dev 1.169

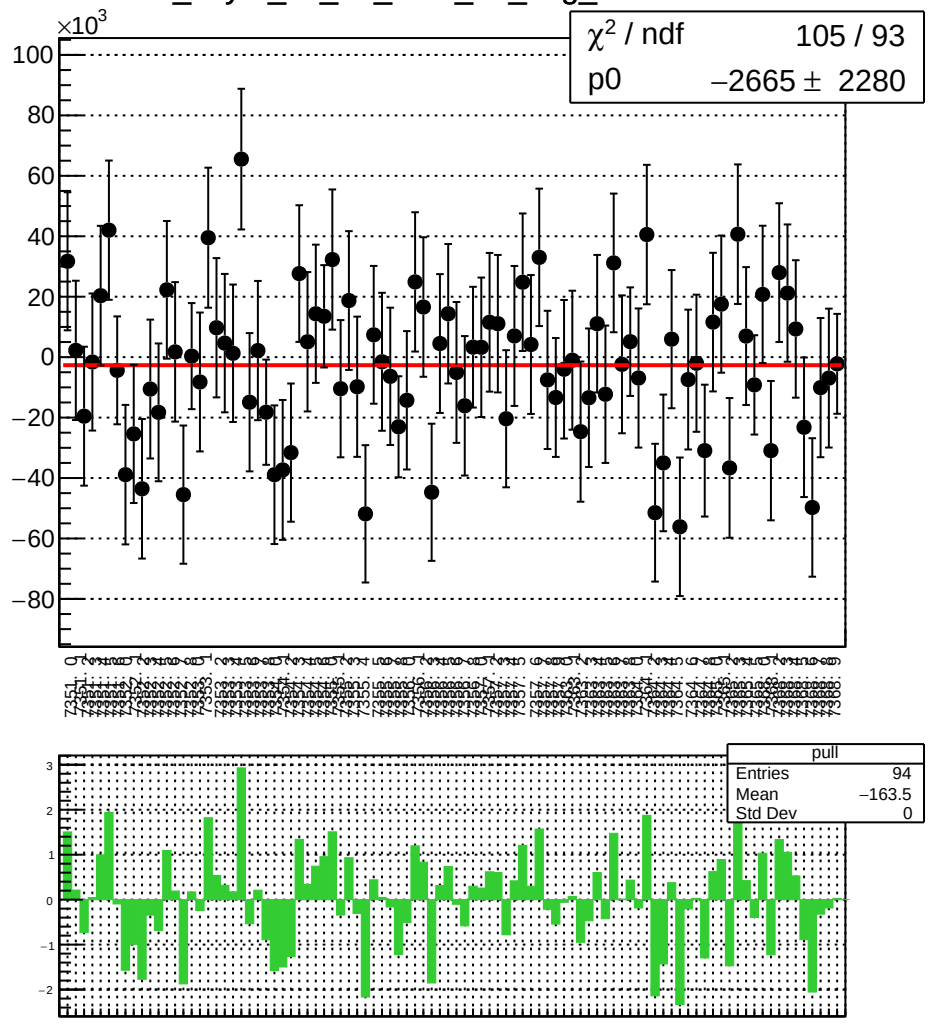

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
χ² / ndf 3.935e+05 / 93
p0 4.696e−11 ± 3.934e−14

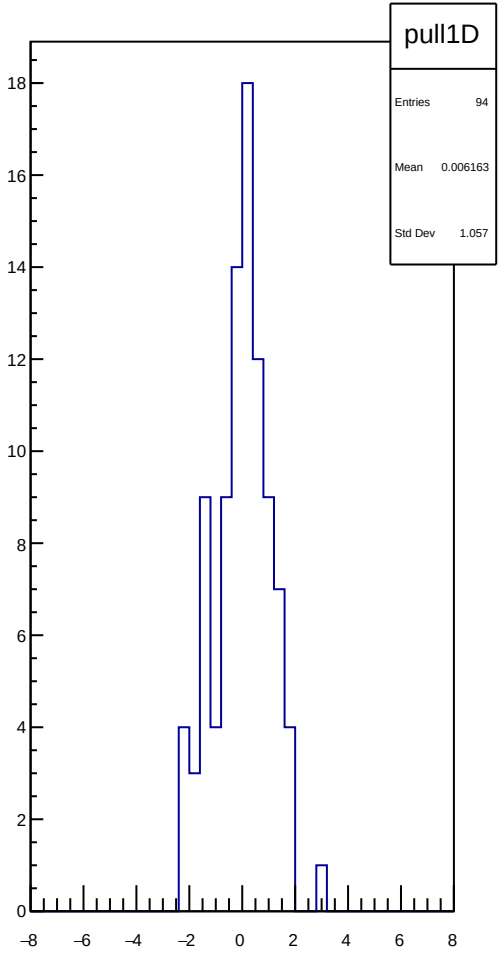

reg_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 105 / 93
p0 −2665 ± 2280
pull
Entries 94
Mean −163.3
Std Dev 0
pull1D
Entries 94
Mean 0.006161
Std Dev 1.057

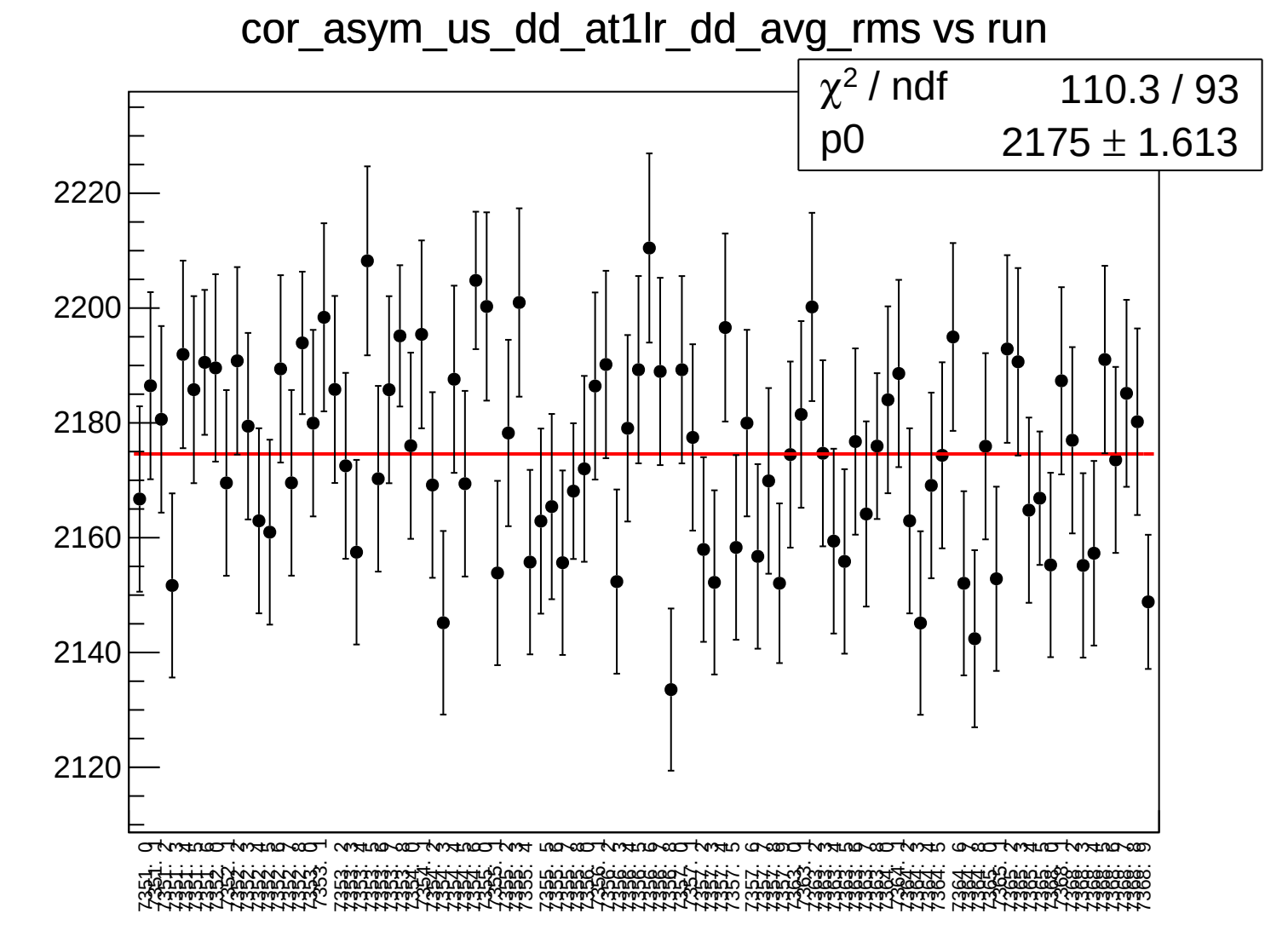

reg_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 110.3 / 93
p0 2175 ± 1.613
2220
2200
2180
2160
2140
2120

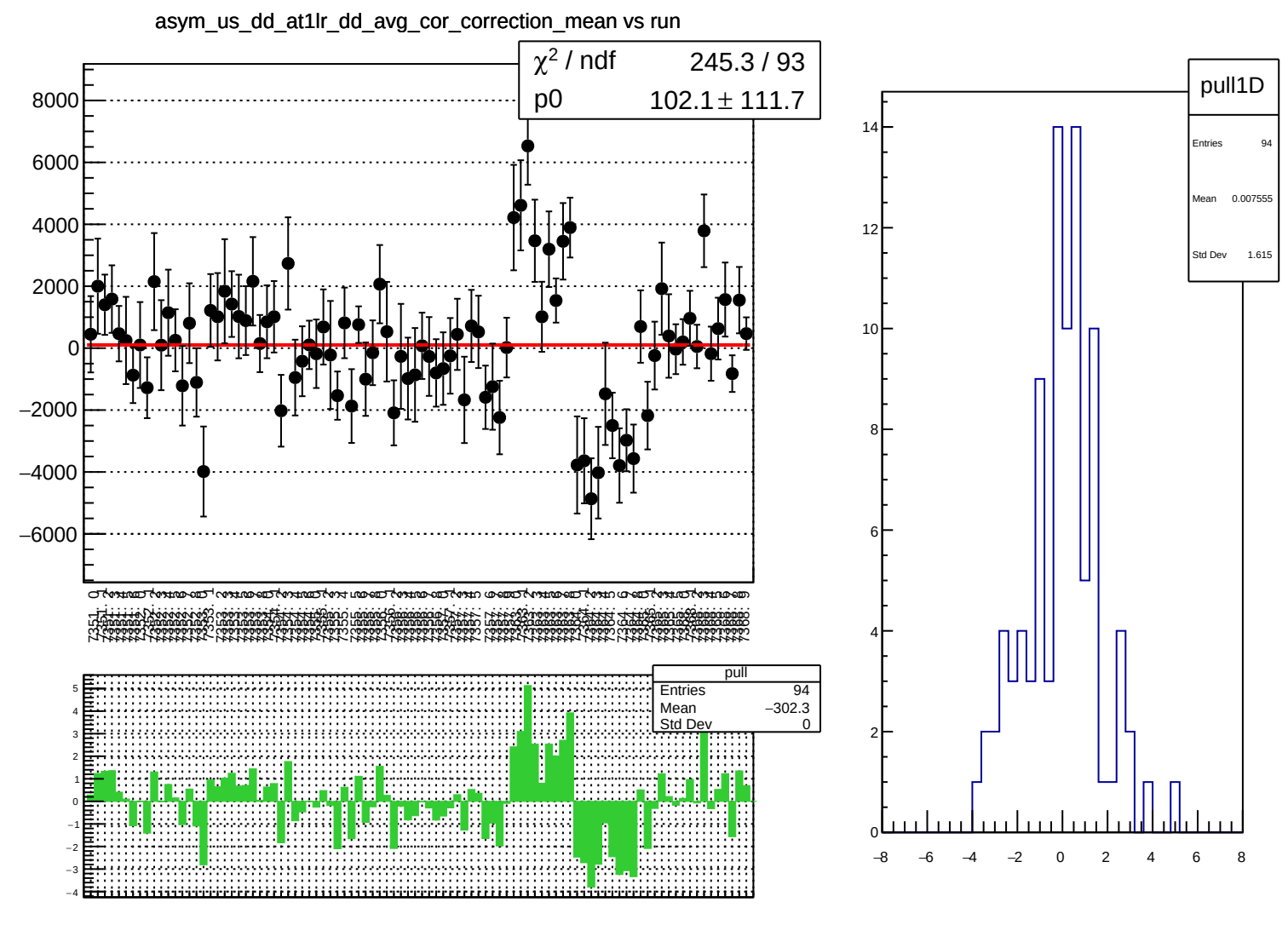

asym_us_dd_at1lr_dd_avg_reg_correction_mean vs run
χ² / ndf 245 / 93
p0 101.5 ± 111.7
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean −298.1
Std Dev 0
pull1D
Entries 94
Mean 0.007554
Std Dev 1.614
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

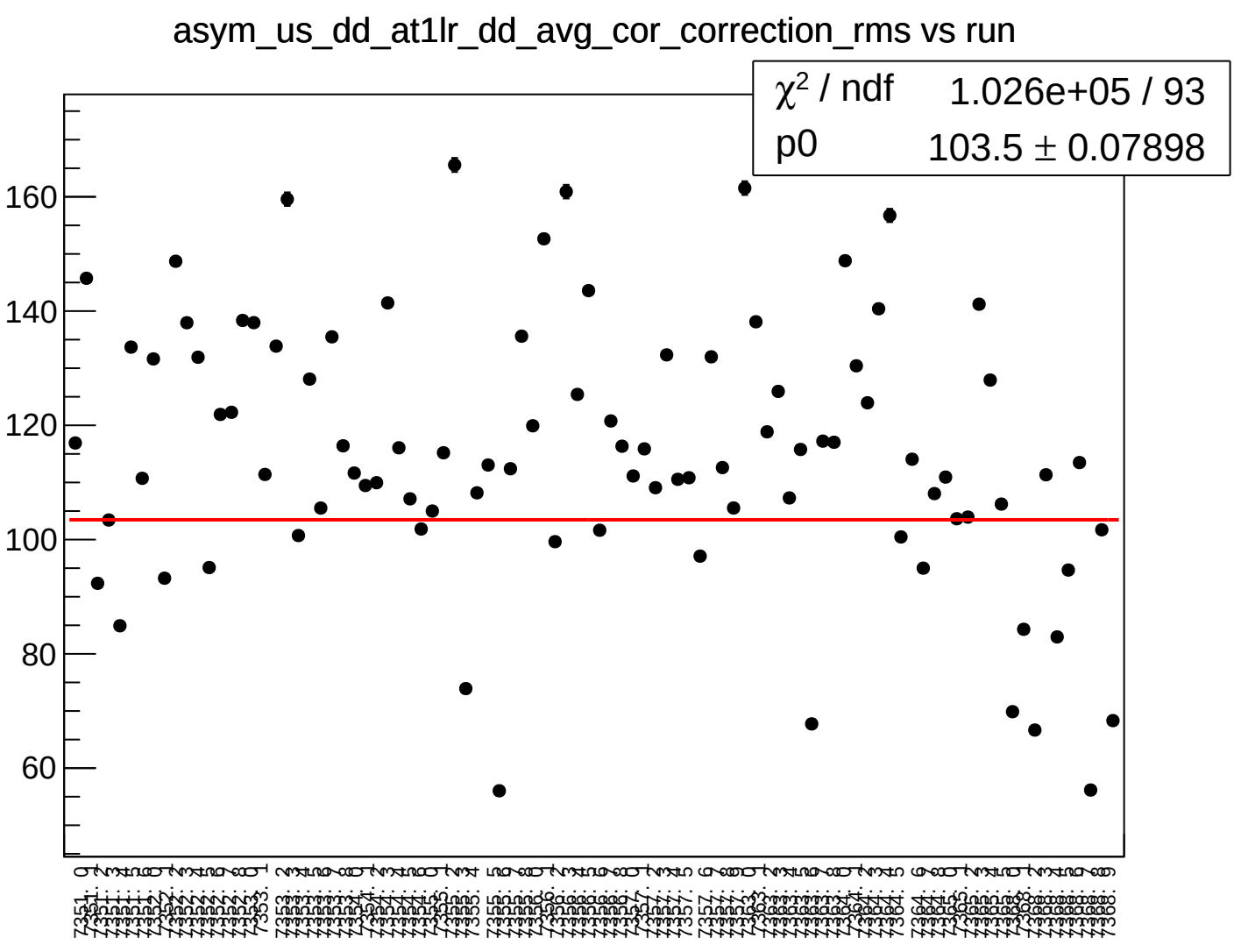

asym_us_dd_at1lr_dd_avg_reg_correction_rms vs run
χ² / ndf 1.031e+05 / 93
p0 103.4 ± 0.07896
160
140
120
100
80
60

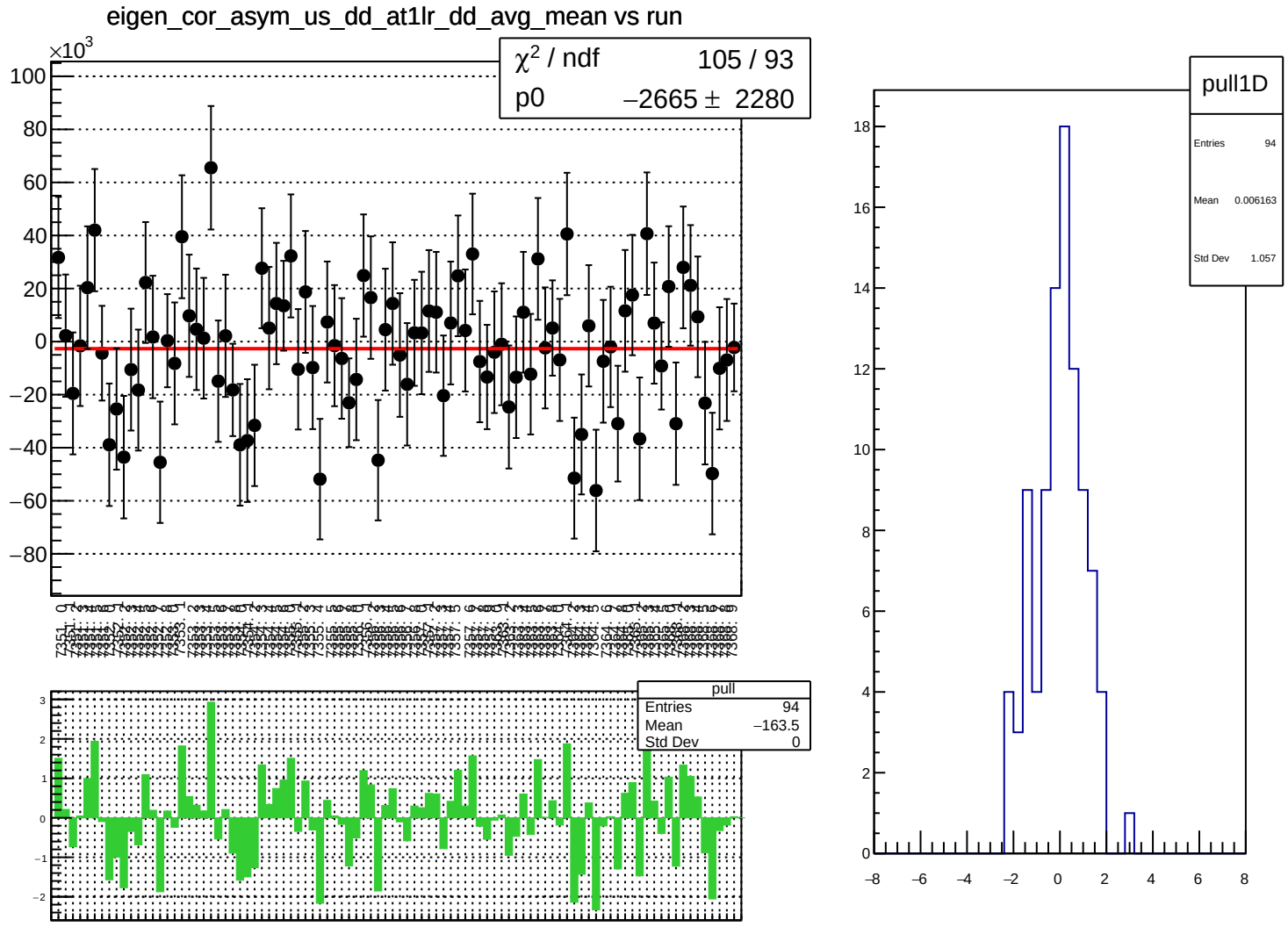

cor_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ^2 / ndf 105 / 93
p0 −2665 ± 2280
pull
Entries 94
Mean −163.5
Std Dev 0

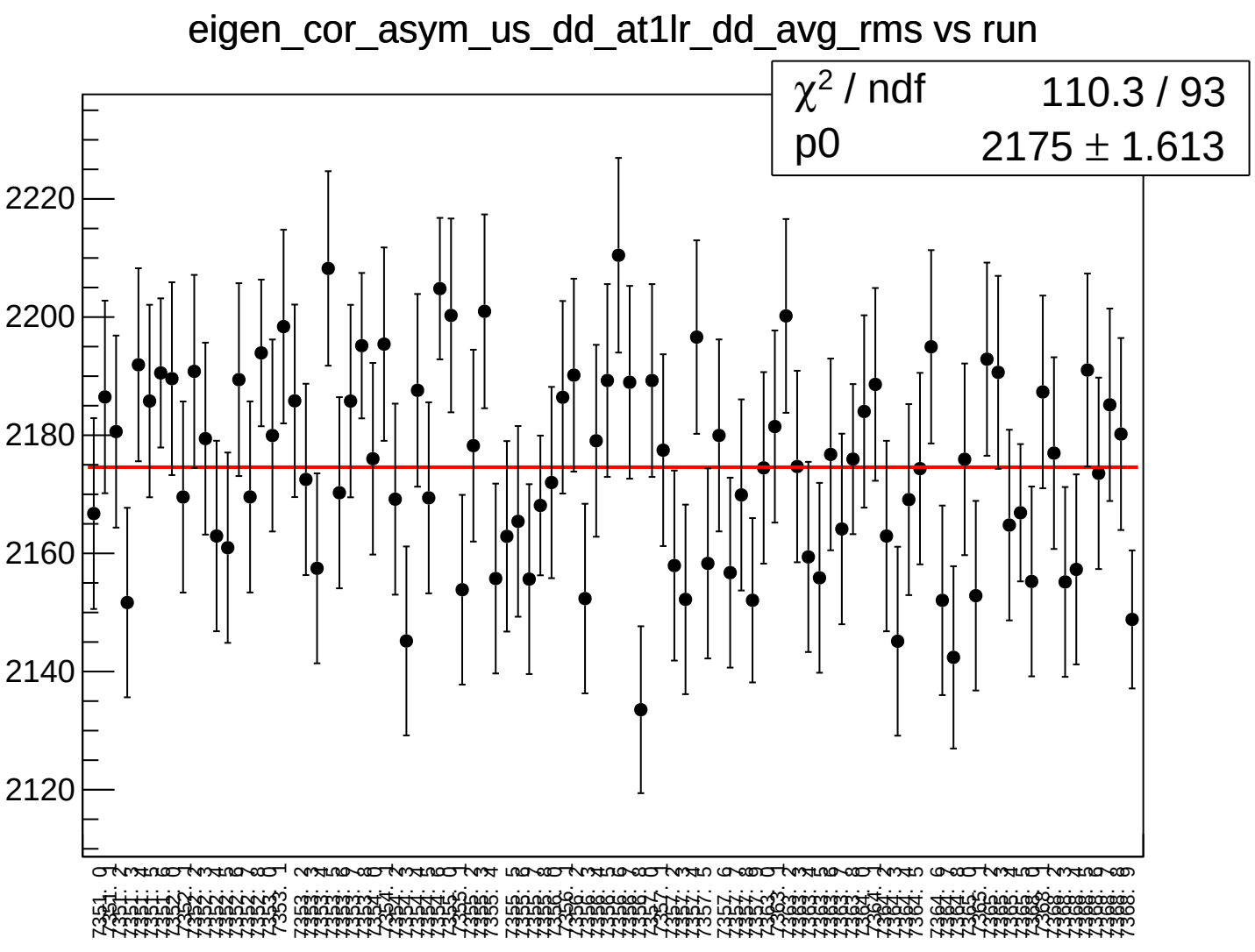

pull1D
Entries 94
Mean 0.006163
Std Dev 1.057

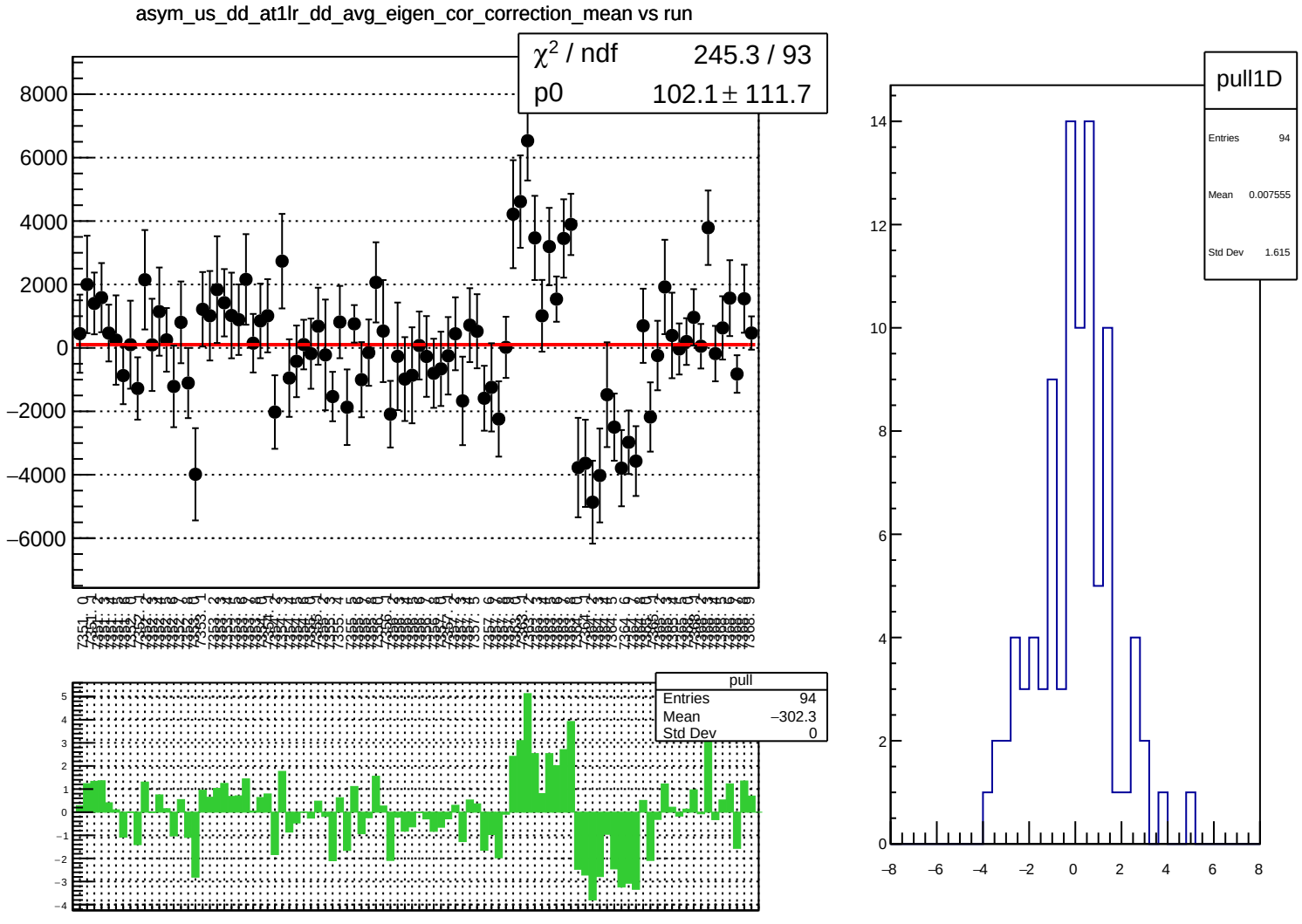

cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ^2 / ndf 110.3 / 93
p0 2175 ± 1.613
2220
2200
2180
2160
2140
2120

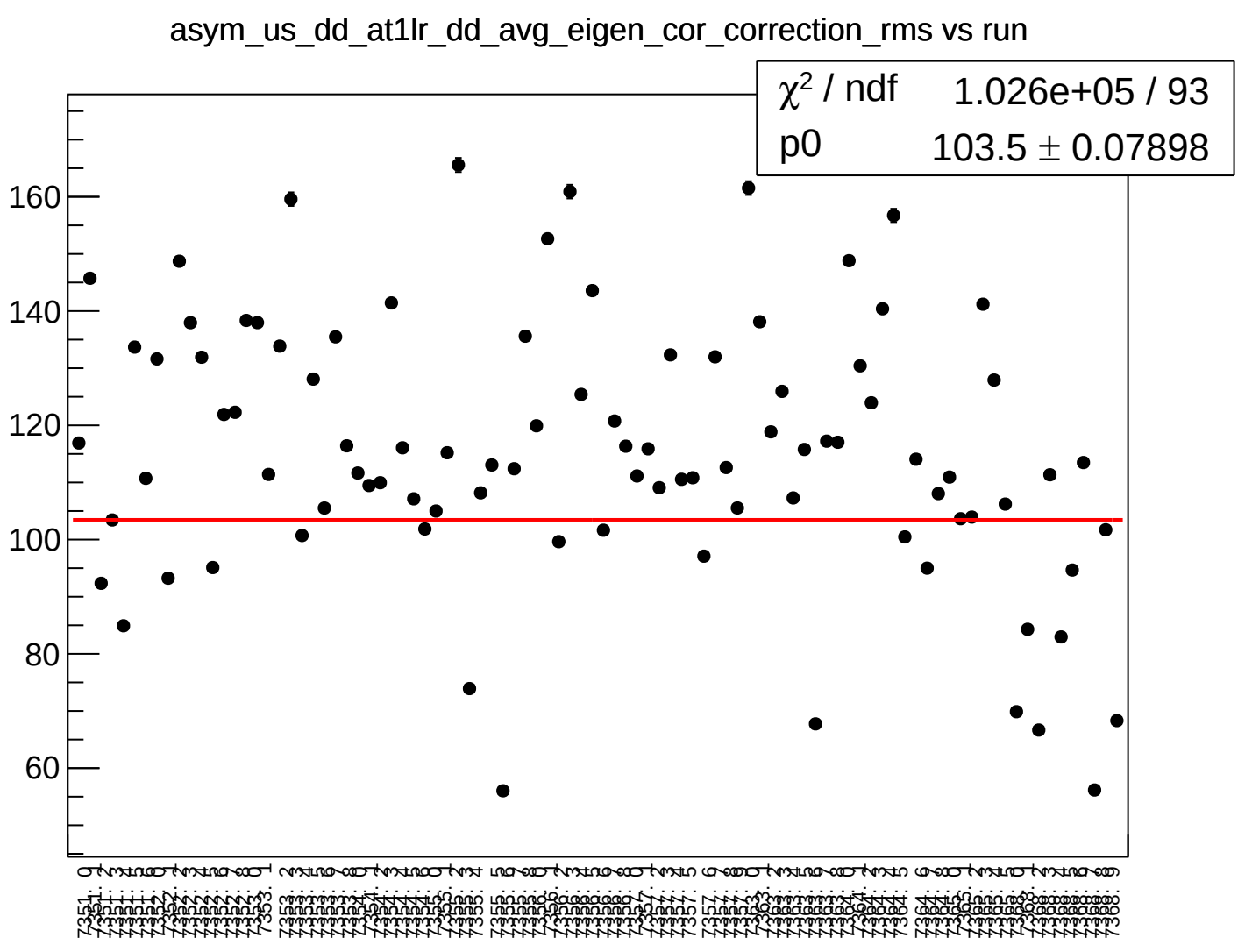

asym_us_dd_at1lr_dd_avg_cor_correction_mean vs run
χ² / ndf 245.3 / 93
p0 102.1 ± 111.7
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean −302.3
Std Dev 0
5
4
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 94
Mean 0.007555
Std Dev 1.615
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

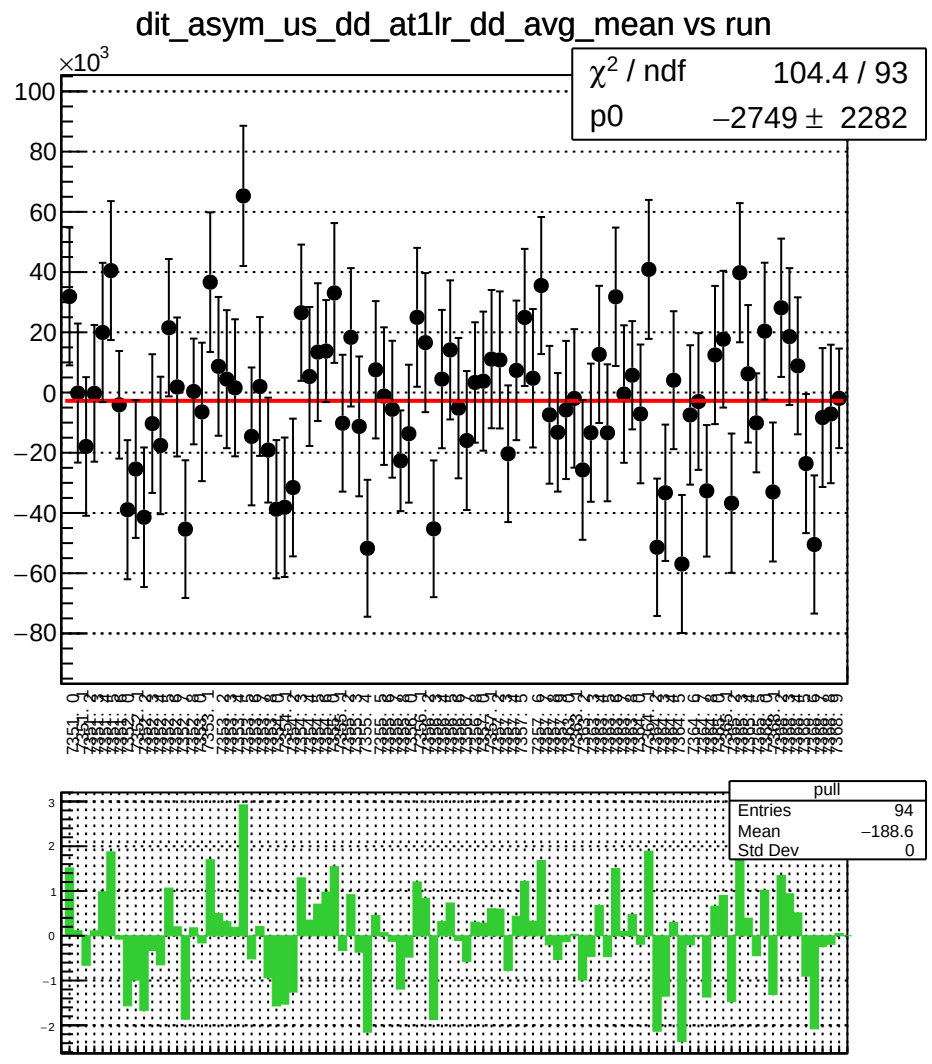

asym_us_dd_at1lr_dd_avg_cor_correction_rms vs run
χ² / ndf 1.026e+05 / 93
p0 103.5 ± 0.07898
160
140
120
100
80
60

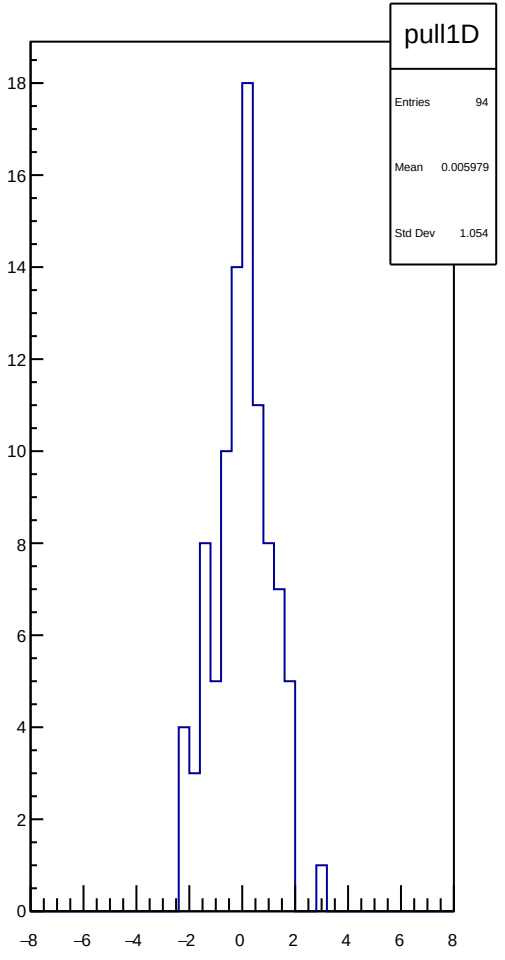

eigen_cor_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ^2 / ndf 105 / 93
p0 −2665 ± 2280
pull
Entries 94
Mean −163.5
Std Dev 0
pull1D
Entries 94
Mean 0.006163
Std Dev 1.057

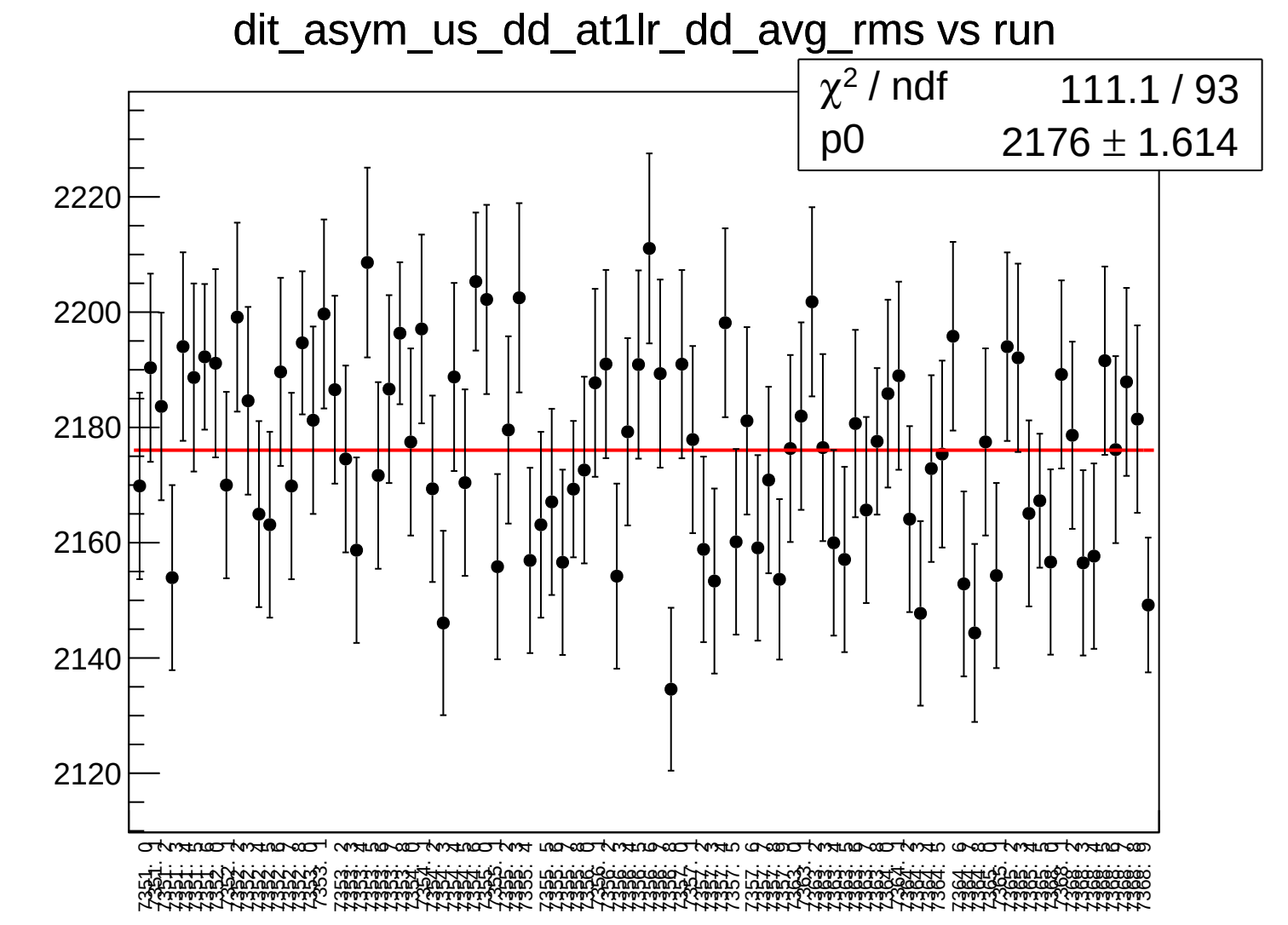

eigen_cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 110.3 / 93
p0 2175 ± 1.613
2220
2200
2180
2160
2140
2120

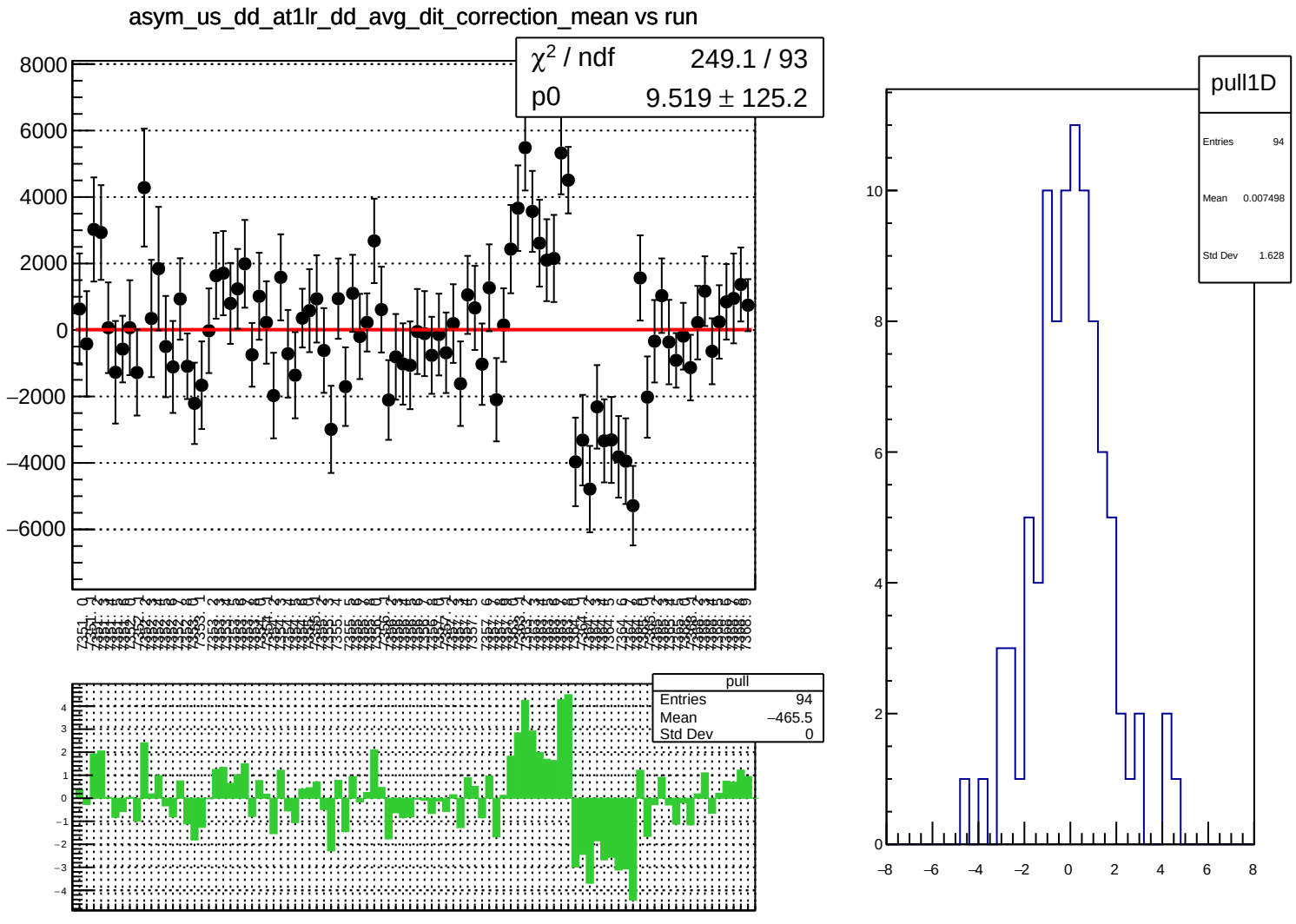

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 245.3 / 93
p0 102.1 ± 111.7
pull
Entries 94
Mean −302.3
Std Dev 0
pull1D
Entries 94
Mean 0.007555
Std Dev 1.615

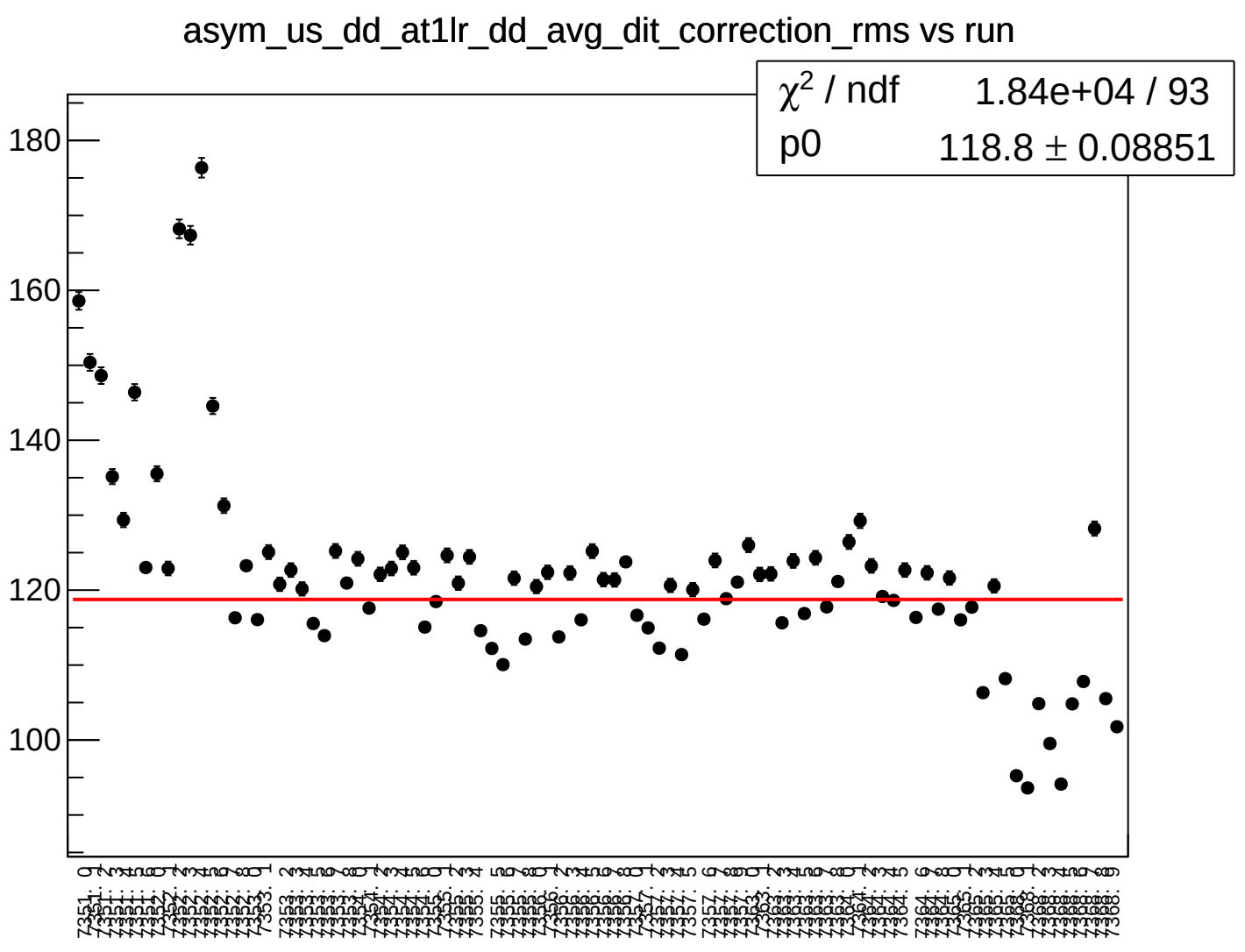

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.026e+05 / 93
p0 103.5 ± 0.07898
160
140
120
100
80
60

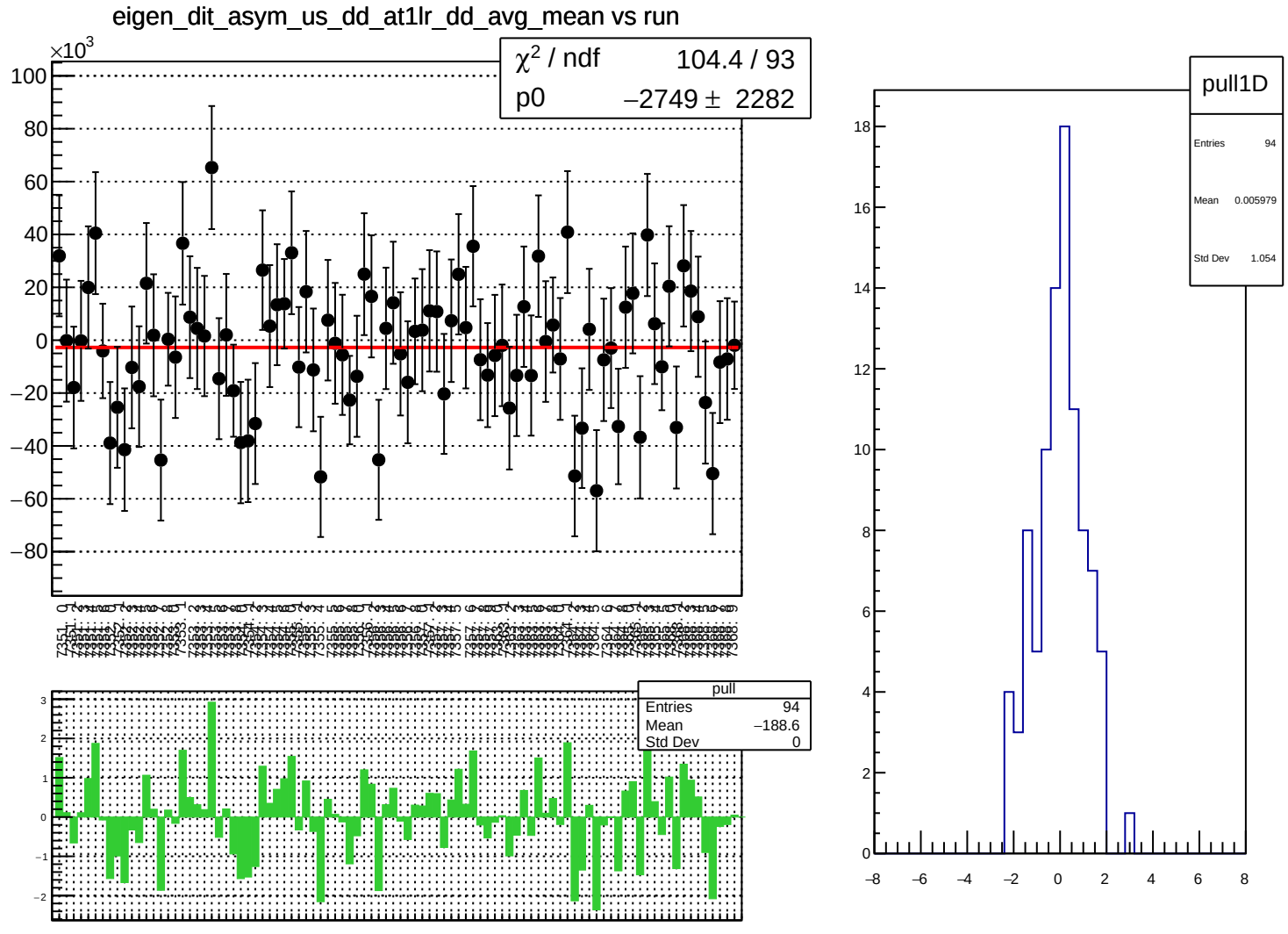

dit_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 104.4 / 93
p0 −2749 ± 2282
pull
Entries 94
Mean −188.6
Std Dev 0

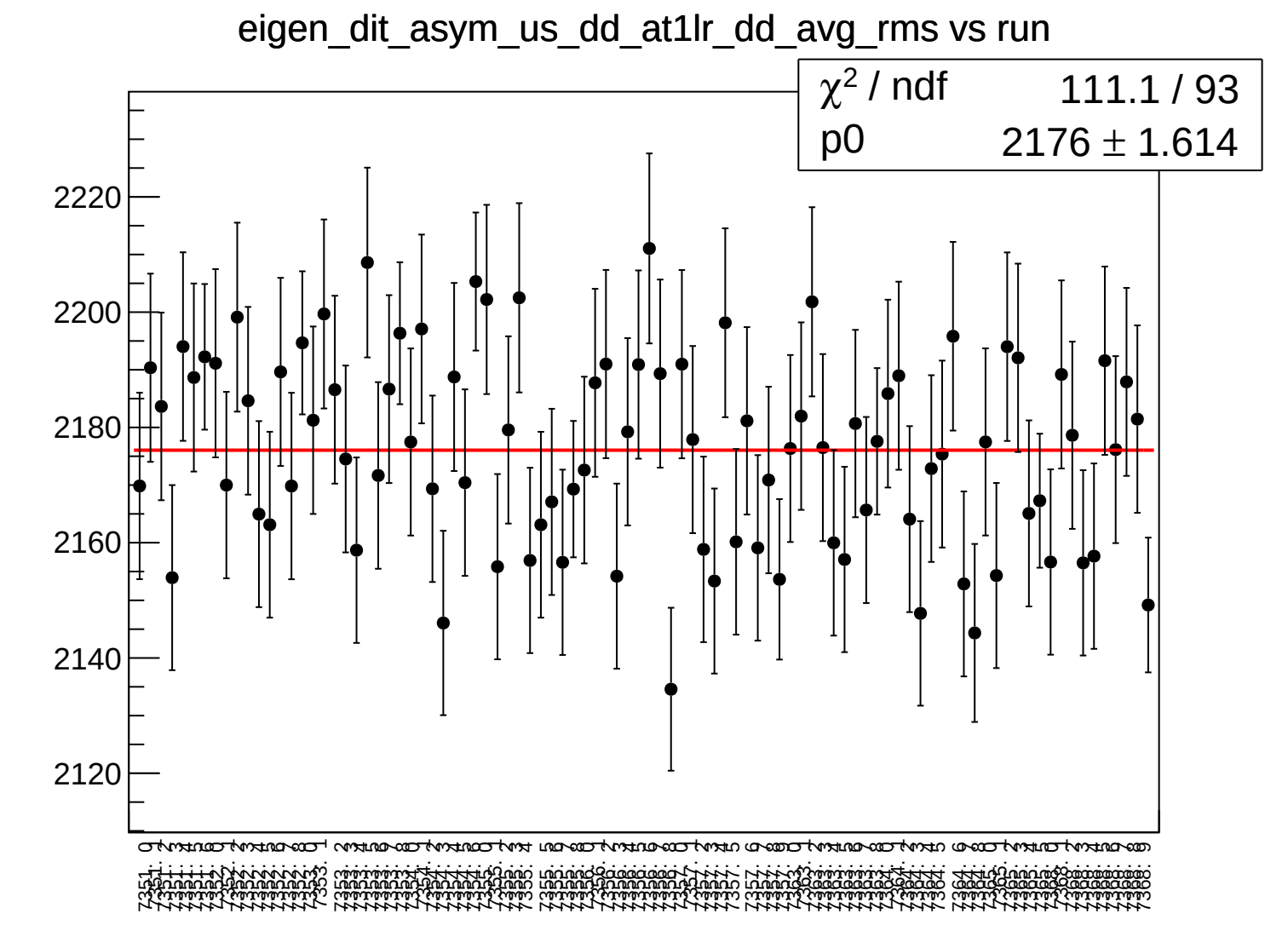

pull1D
Entries 94
Mean 0.005979
Std Dev 1.054

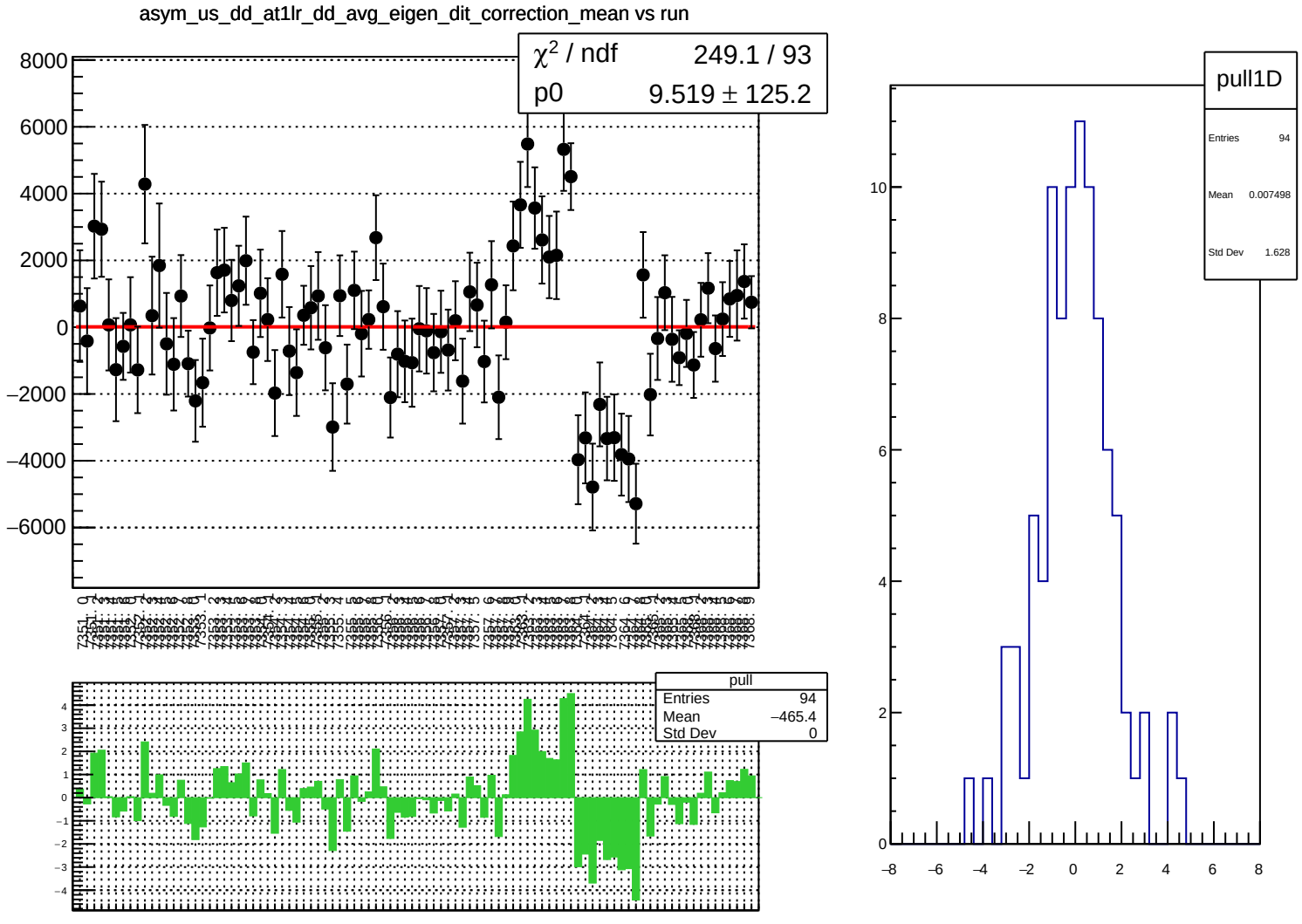

dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 111.1 / 93
p0 2176 ± 1.614
2220
2200
2180
2160
2140
2120

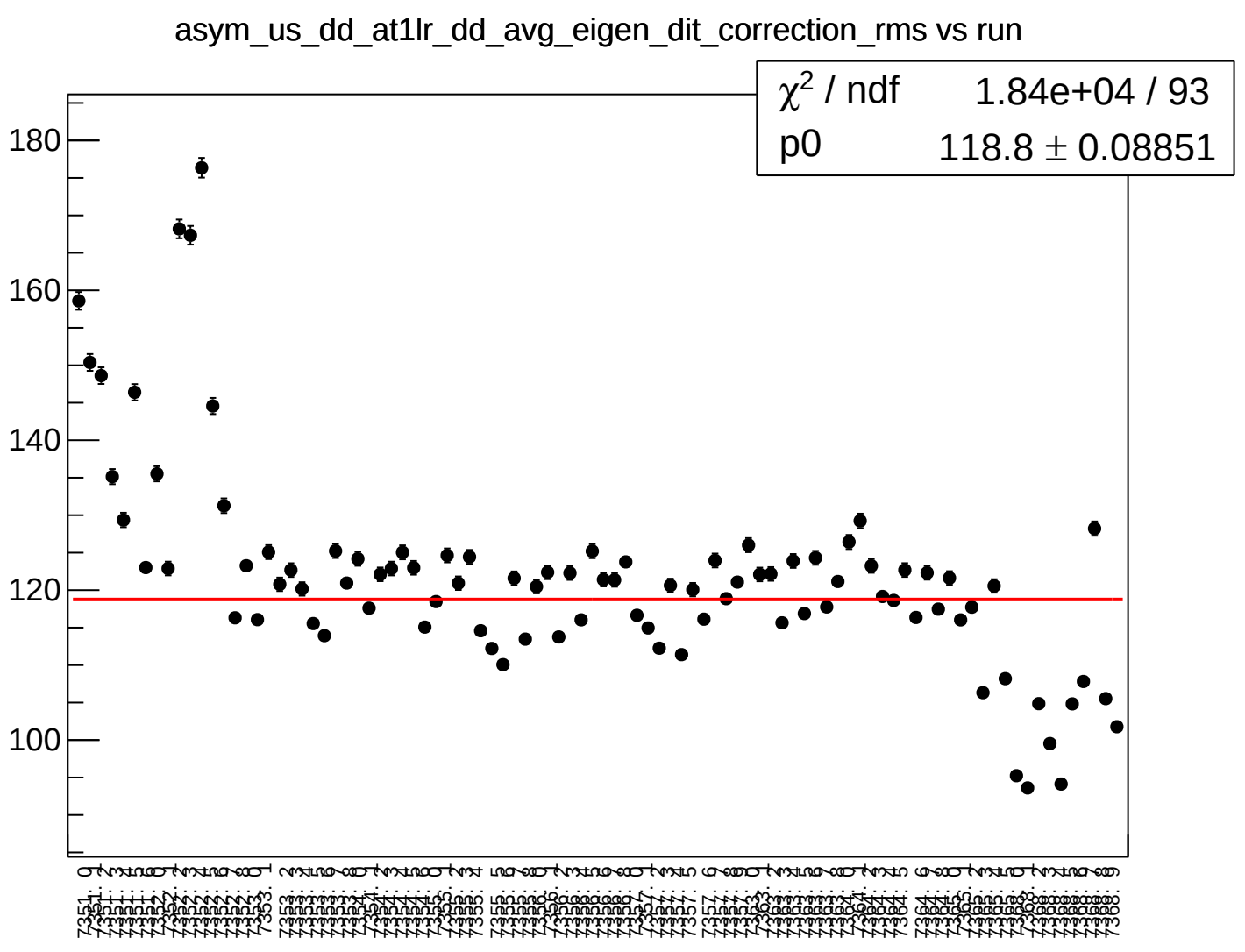

asym_us_dd_at1lr_dd_avg_dit_correction_mean vs run
χ² / ndf 249.1 / 93
p0 9.519 ± 125.2
pull
Entries 94
Mean −465.5
Std Dev 0
pull1D
Entries 94
Mean 0.007498
Std Dev 1.628

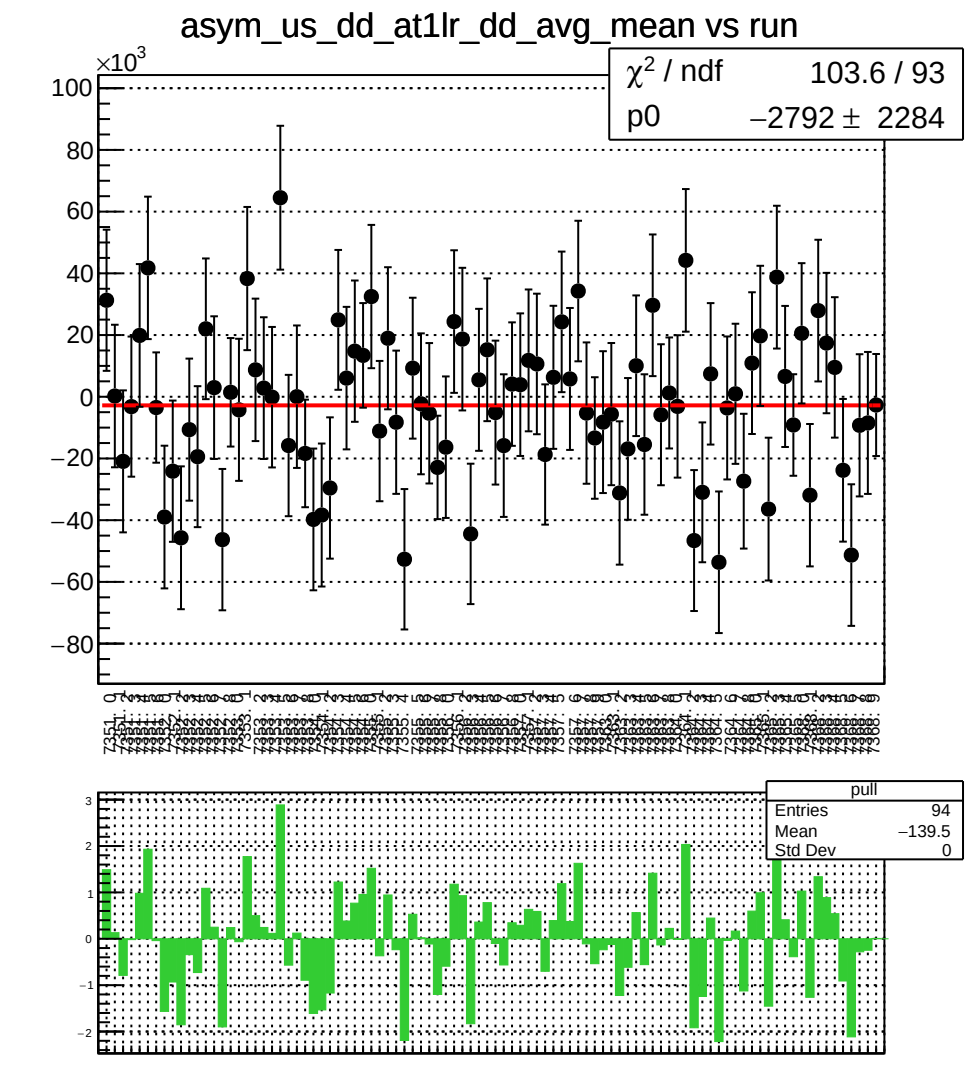

asym_us_dd_at1lr_dd_avg_dit_correction_rms vs run
χ^2 / ndf 1.84e+04 / 93
p0 118.8 ± 0.08851
180
160
140
120
100

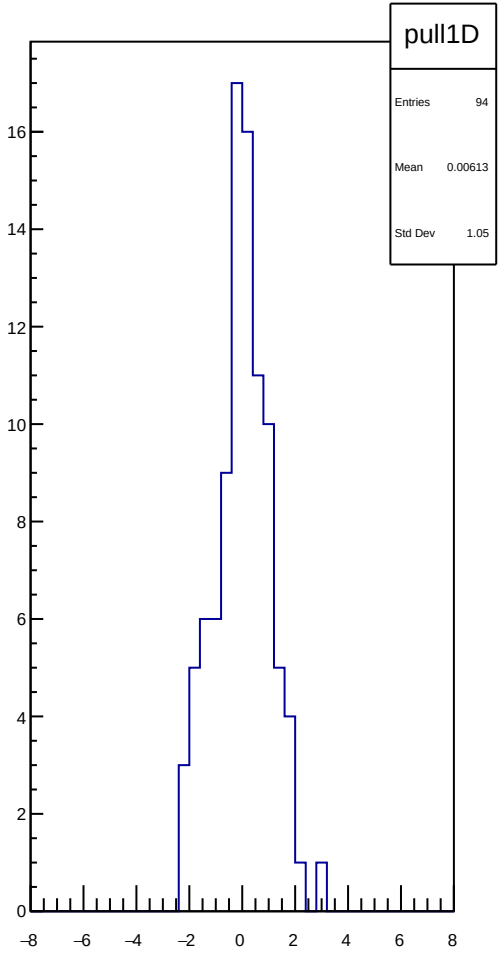

eigen_dit_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 104.4 / 93
p0 −2749 ± 2282
pull
Entries 94
Mean −188.6
Std Dev 0
pull1D
Entries 94
Mean 0.005979
Std Dev 1.054

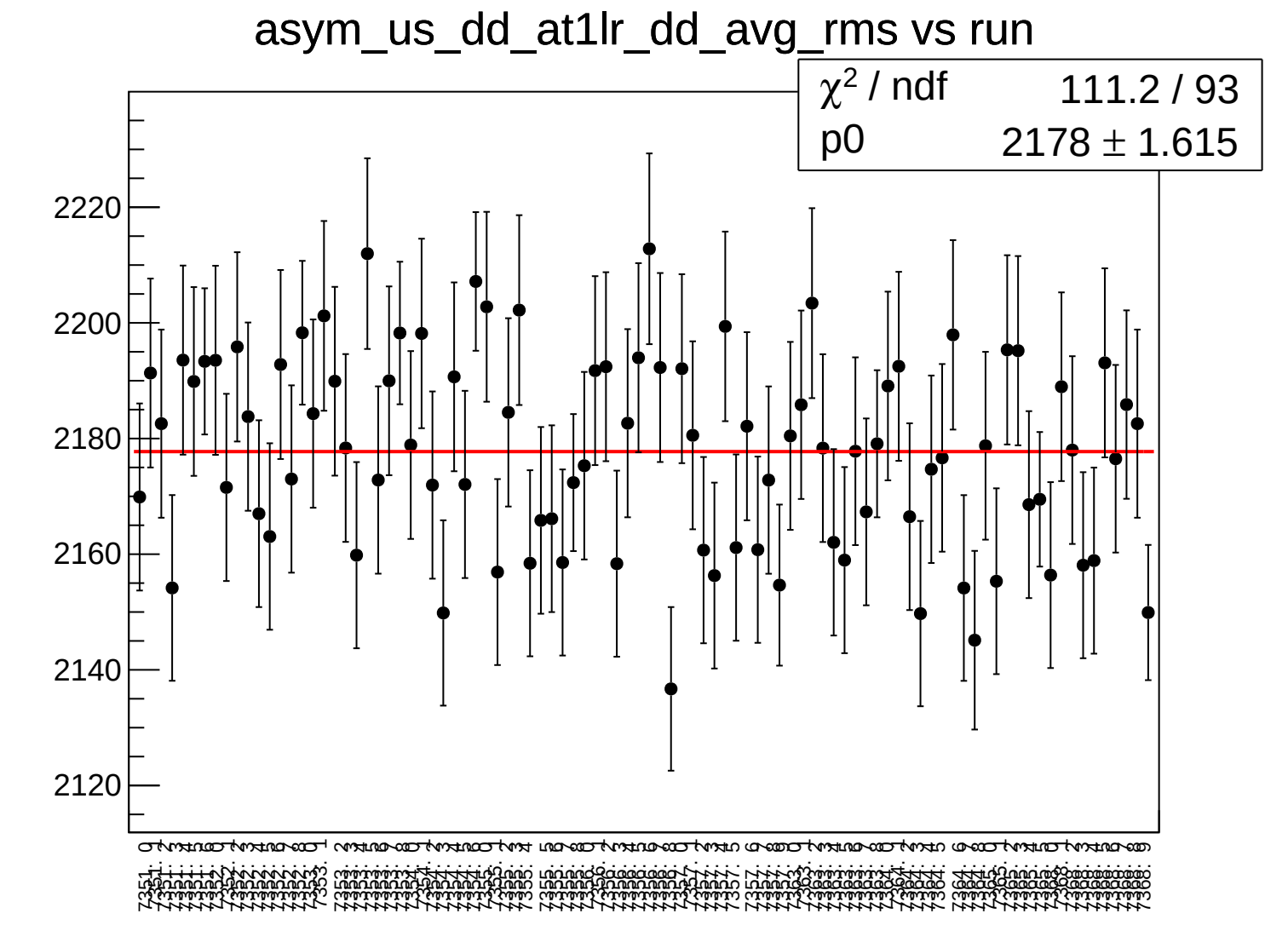

eigen_dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 111.1 / 93
p0 2176 ± 1.614
2220
2200
2180
2160
2140
2120

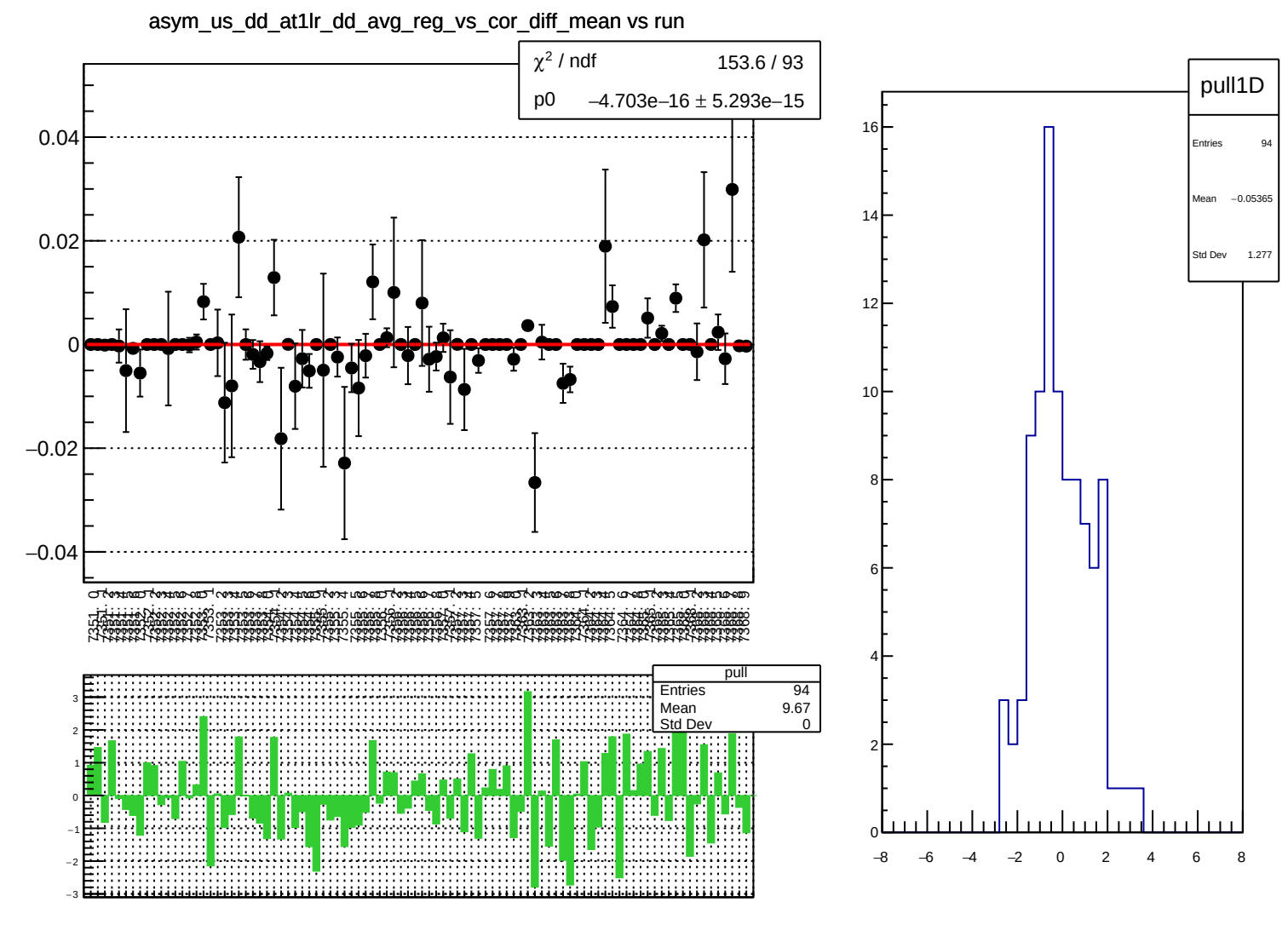

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 249.1 / 93
p0 9.519 ± 125.2
pull
Entries 94
Mean −465.4
Std Dev 0
pull1D
Entries 94
Mean 0.007498
Std Dev 1.628

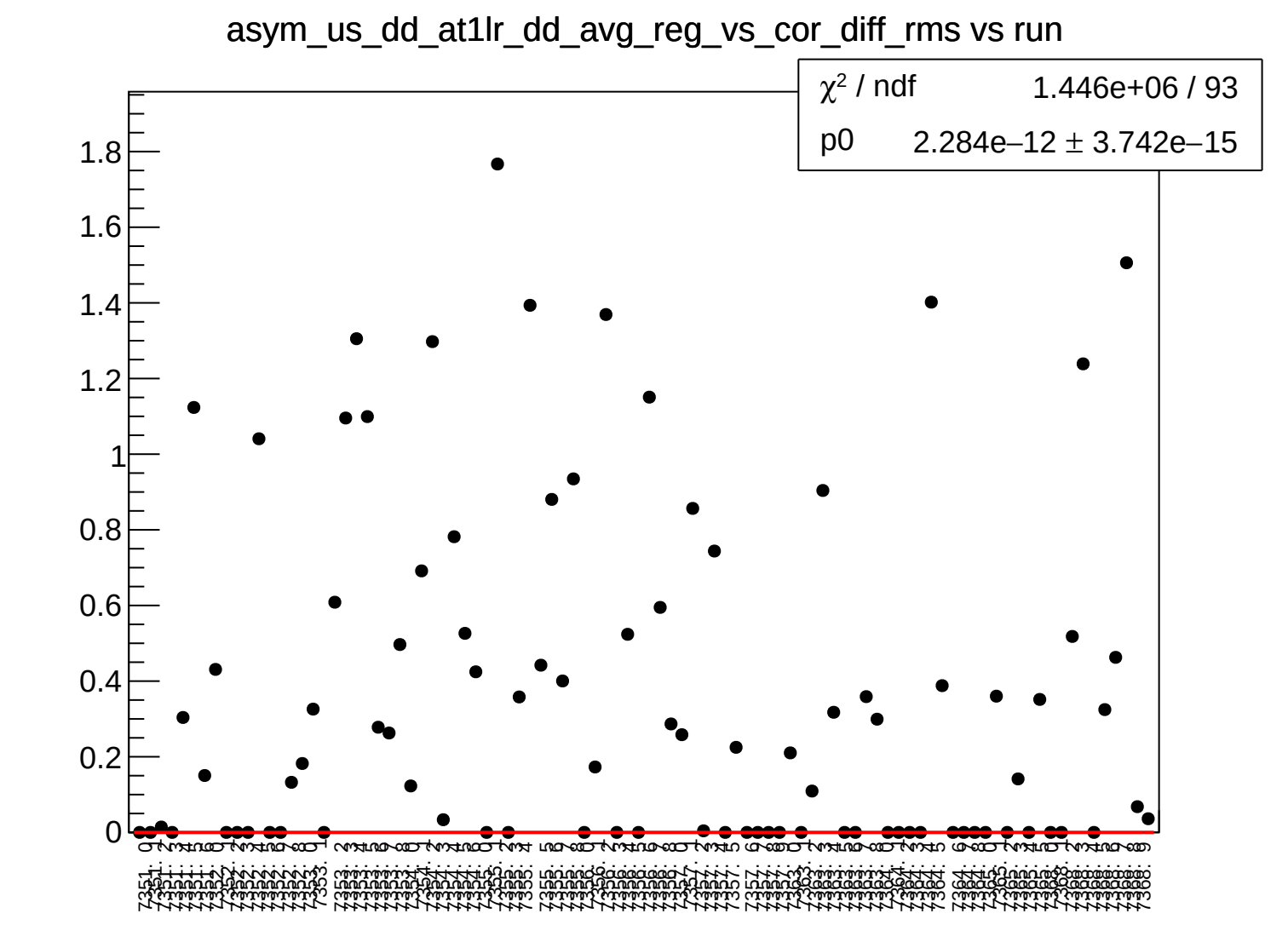

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.84e+04 / 93
p0 118.8 ± 0.08851
180
160
140
120
100

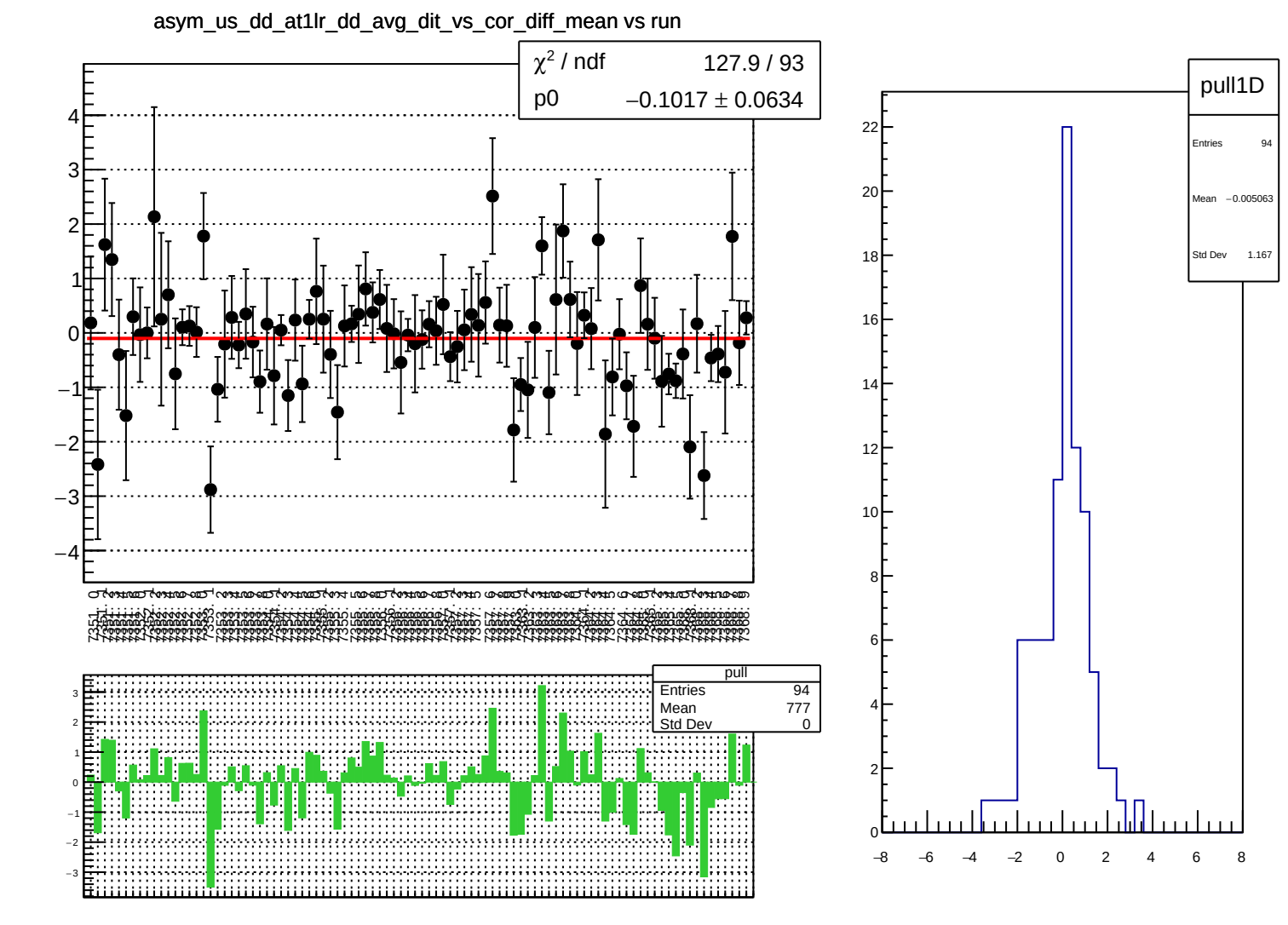

asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 103.6 / 93
p0 −2792 ± 2284
pull
Entries 94
Mean −139.5
Std Dev 0

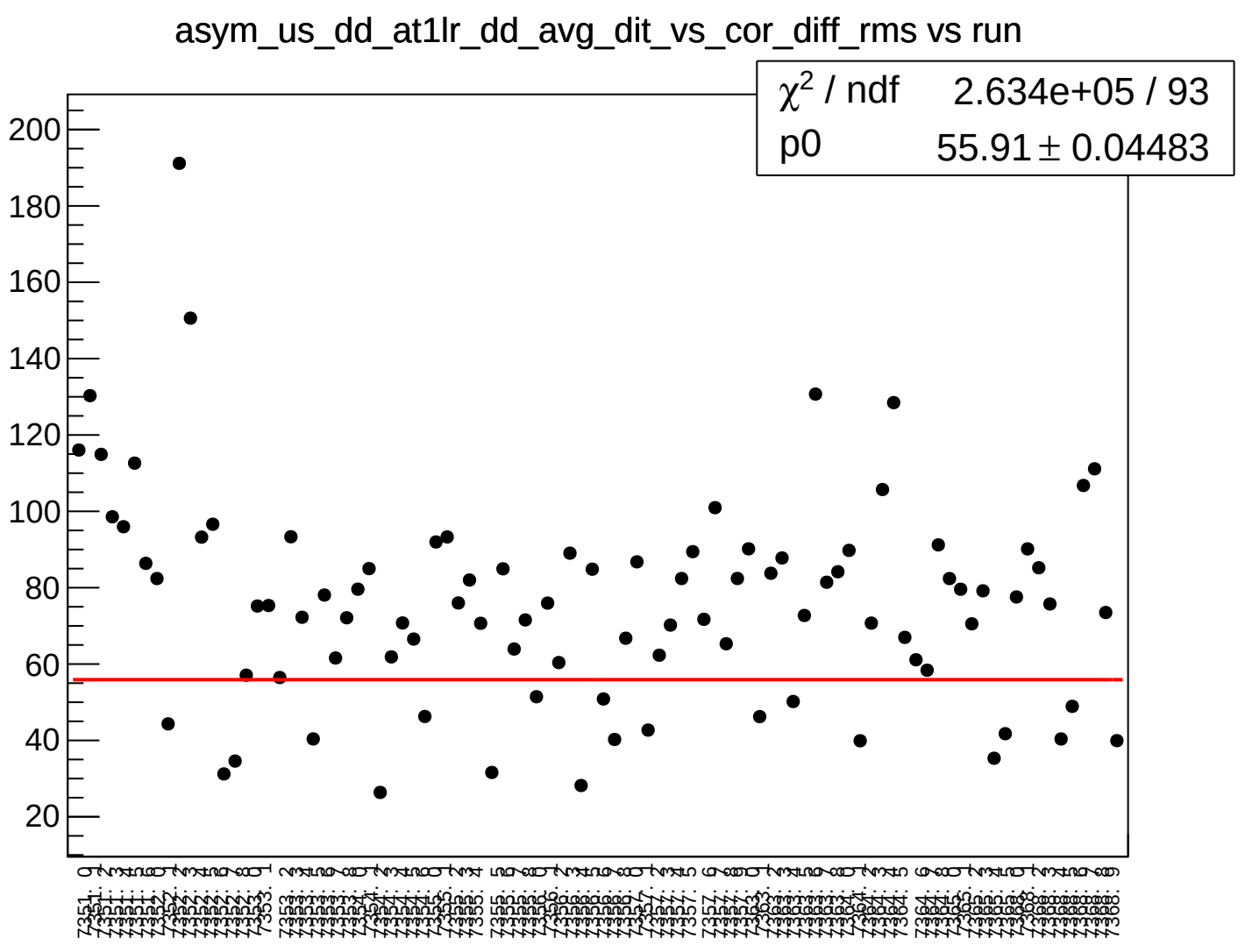

pull1D
Entries 94
Mean 0.00613
Std Dev 1.05


asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 111.2 / 93
p0 2178 ± 1.615
2220
2200
2180
2160
2140
2120

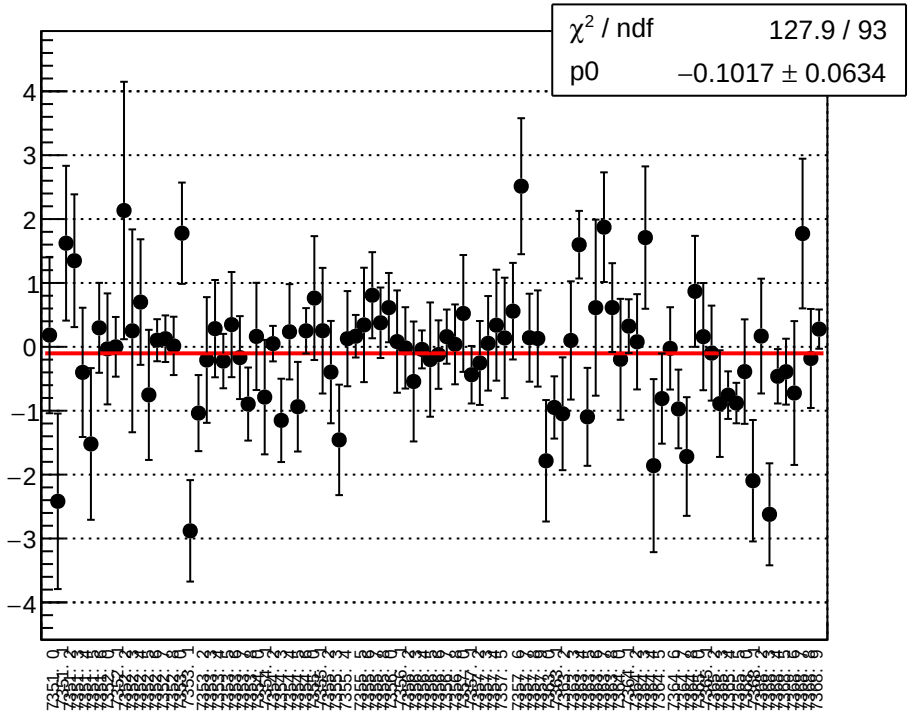

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 153.6 / 93
p0 −4.703e−16 ± 5.293e−15
0.04
0.02
0
−0.02
−0.04
pull
Entries 94
Mean 9.67
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.05365
Std Dev 1.277
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

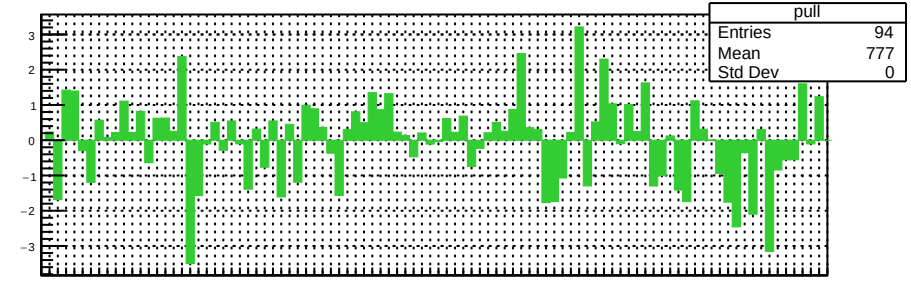

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.446e+06 / 93
p0 2.284e−12 ± 3.742e−15
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

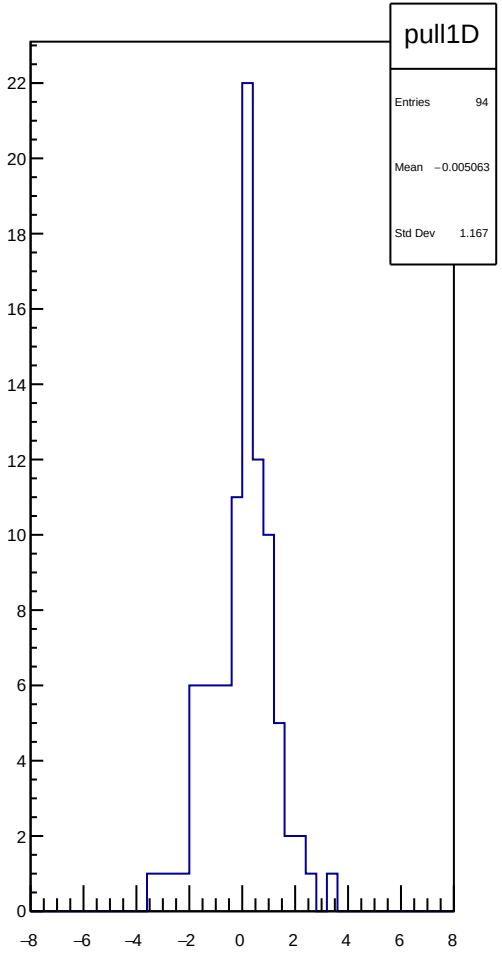

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 127.9 / 93
p0 −0.1017 ± 0.0634
pull
Entries 94
Mean 777
Std Dev 0
pull1D
Entries 94
Mean −0.005063
Std Dev 1.167

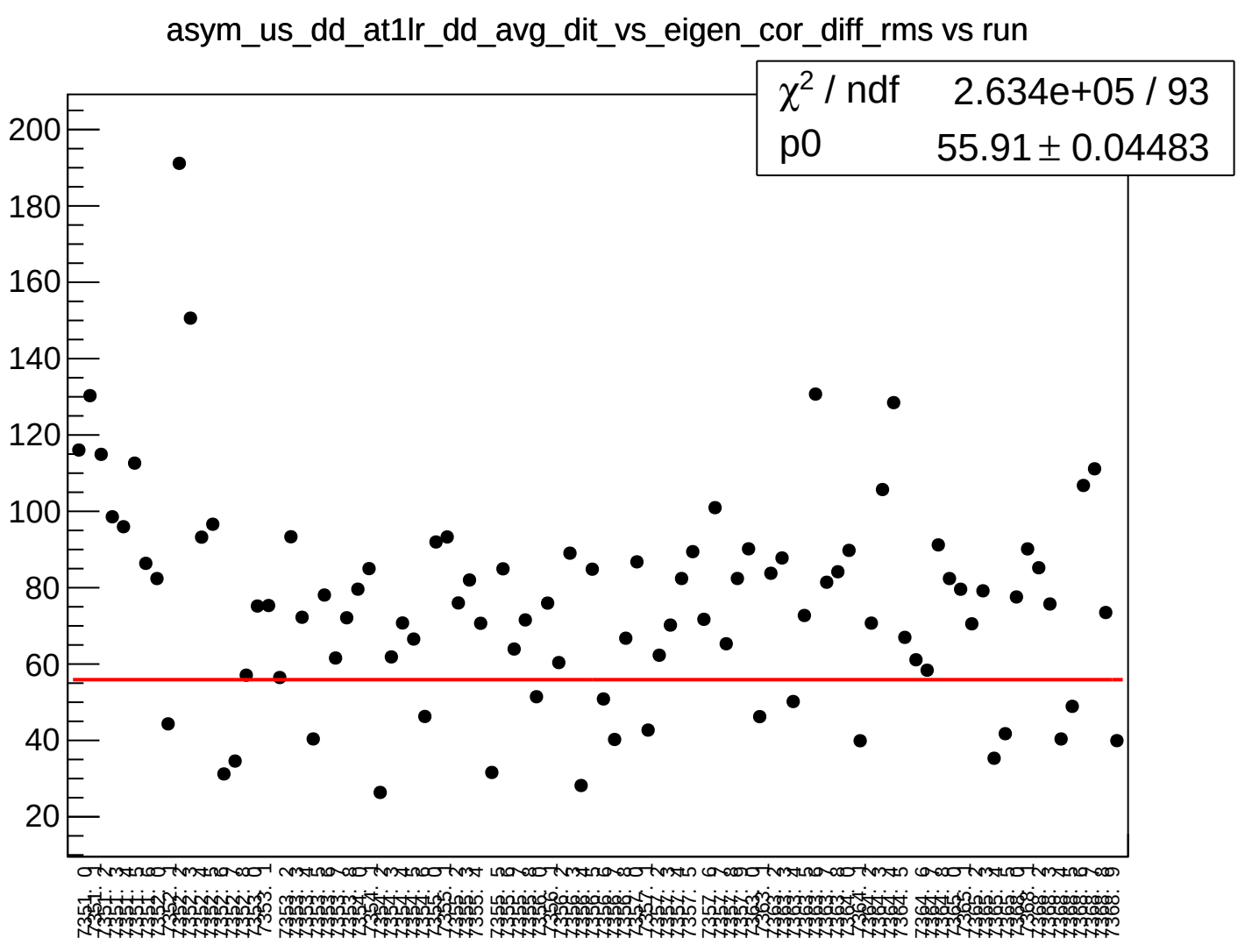

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.634e+05 / 93
p0 55.91 ± 0.04483
200
180
160
140
120
100
80
60
40
20

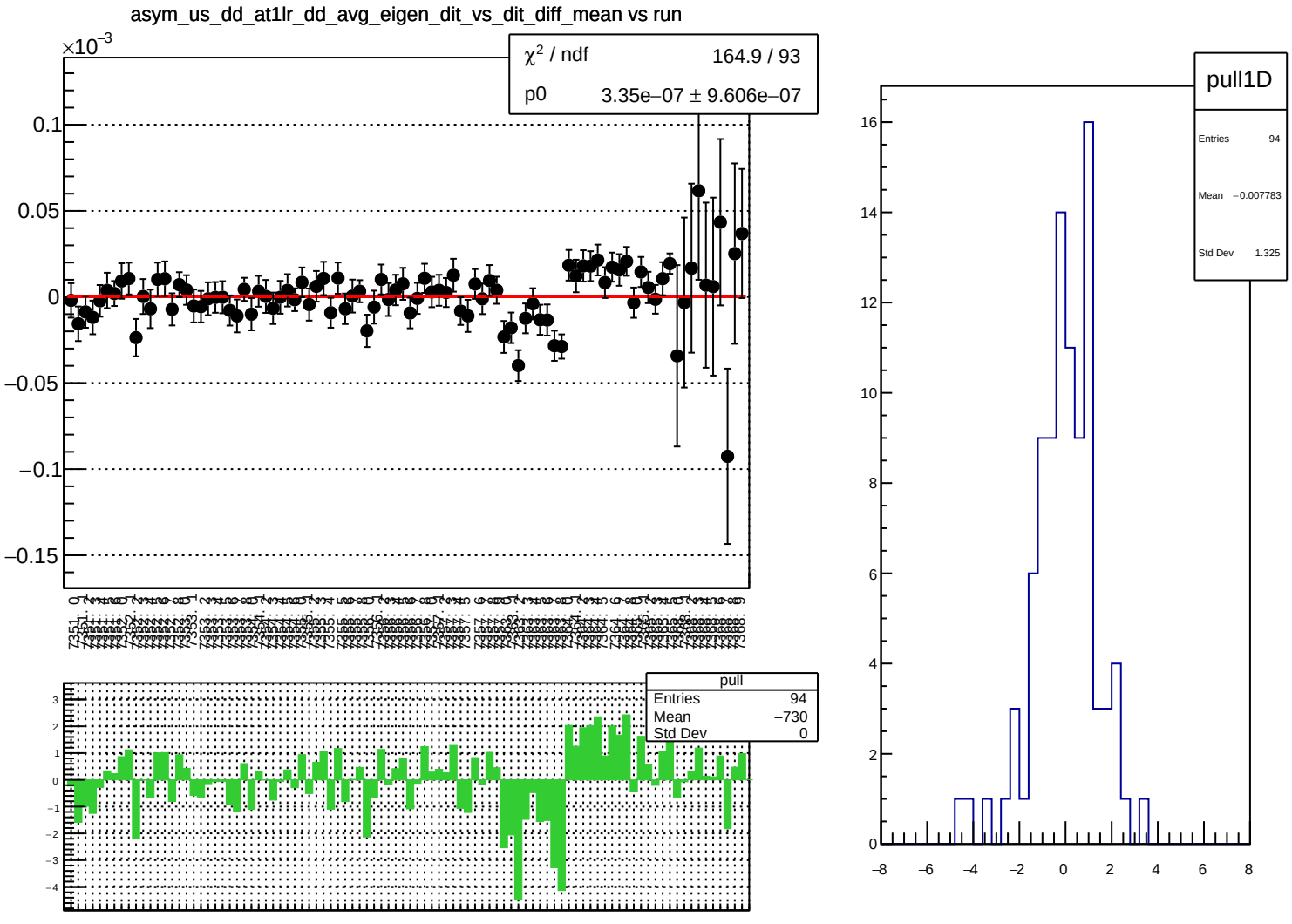
asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run

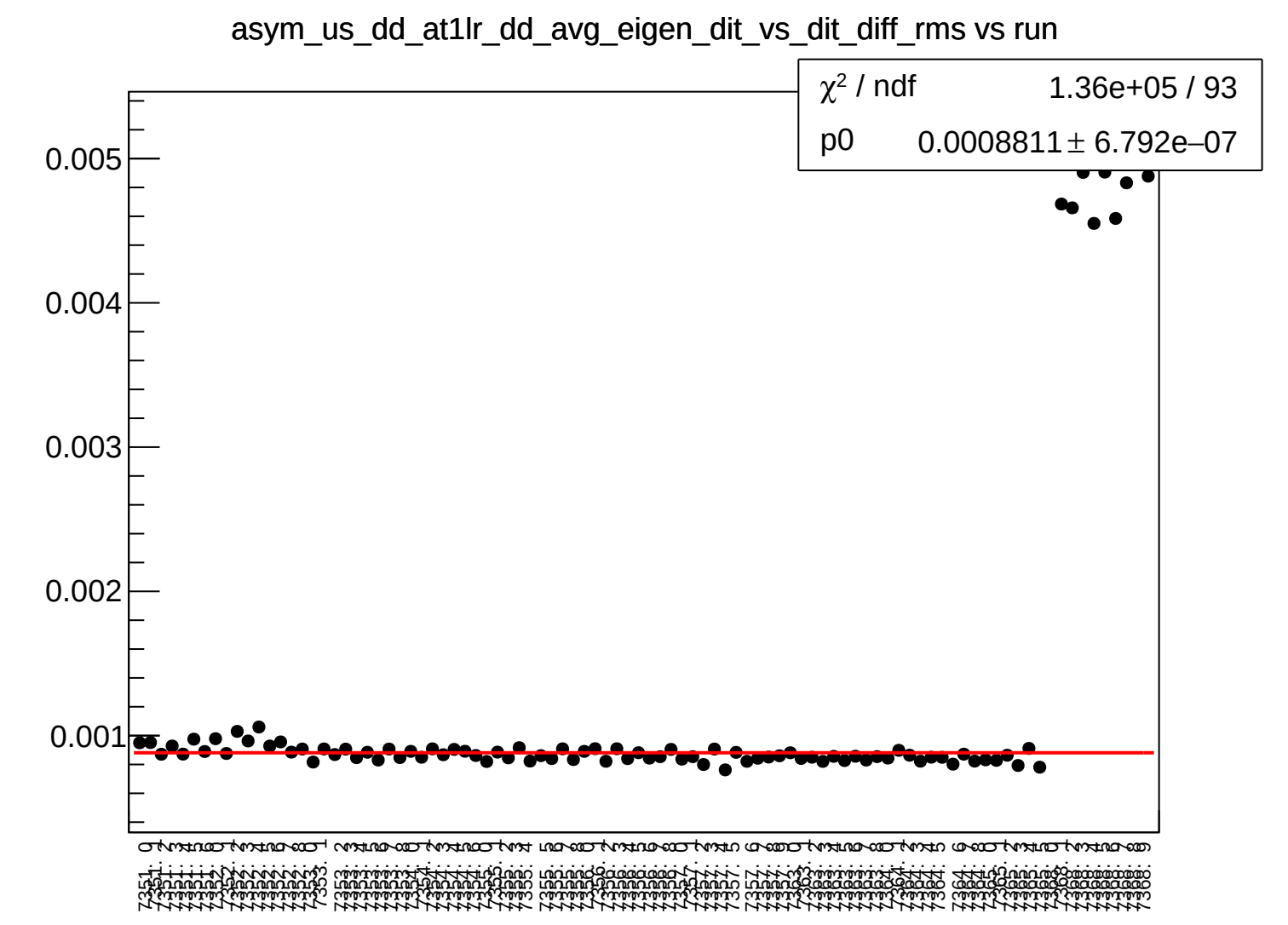




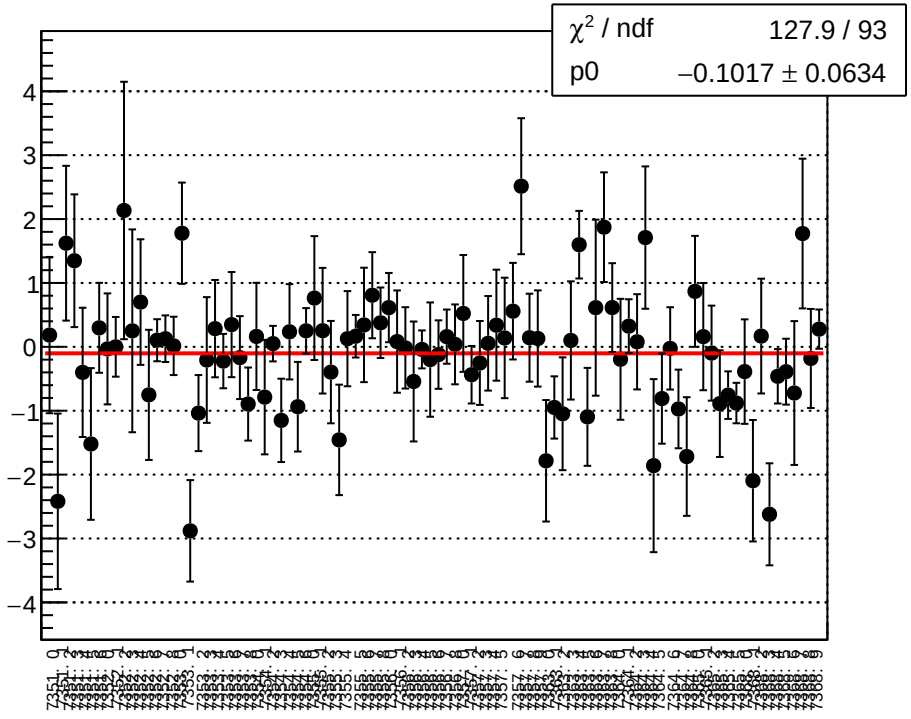


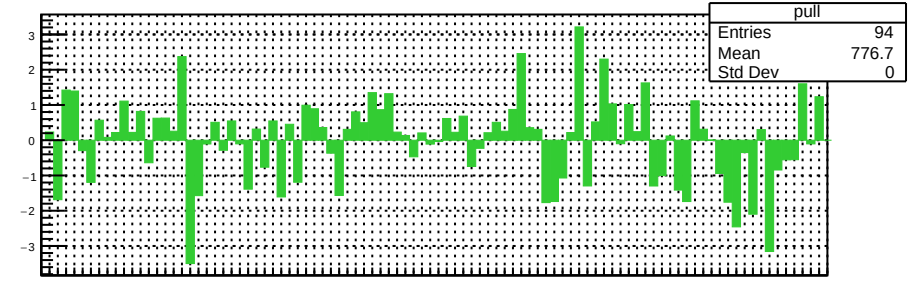

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.634e+05 / 93
p0 55.91 ± 0.04483
200
180
160
140
120
100
80
60
40
20

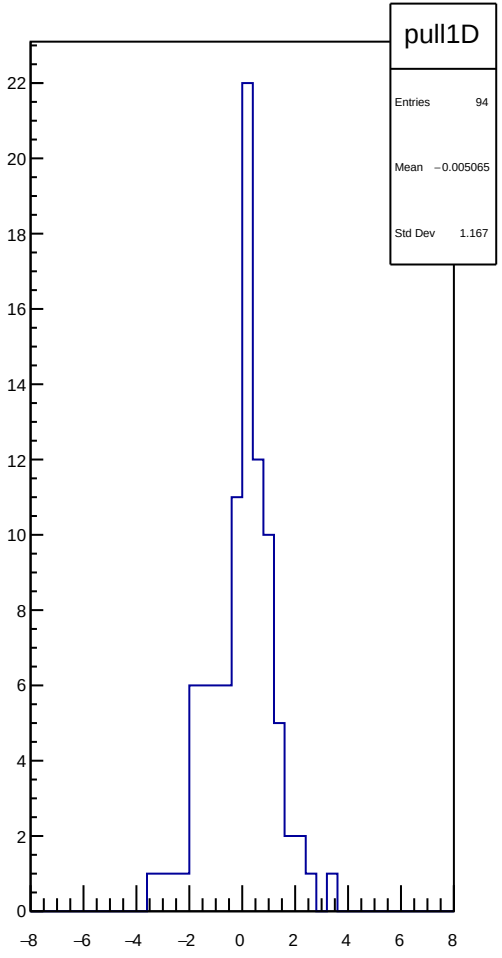

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 164.9 / 93
p0 3.35e−07 ± 9.606e−07
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 94
Mean −730
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 94
Mean −0.007783
Std Dev 1.325
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

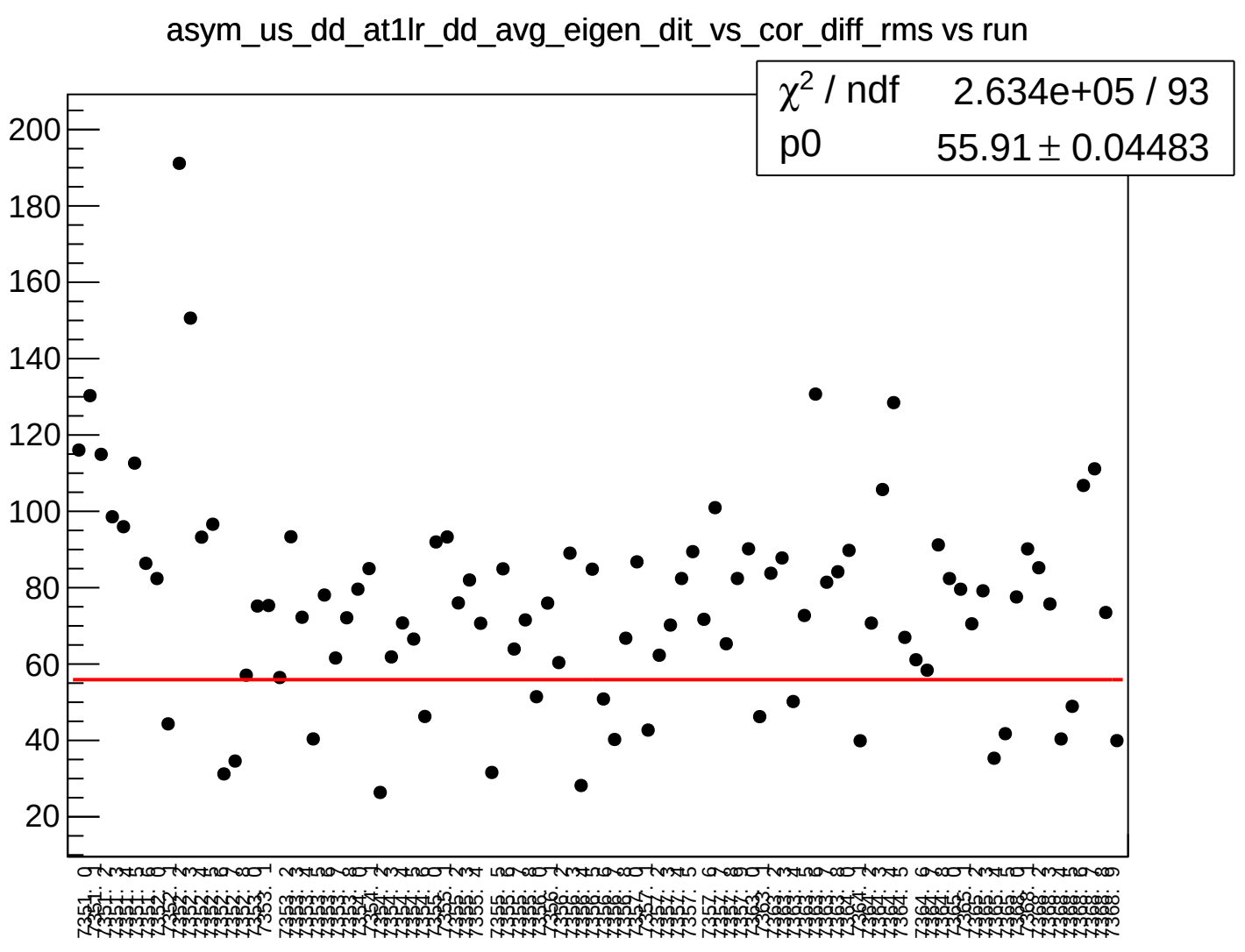

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.36e+05 / 93
p0 0.0008811 ± 6.792e−07
0.005
0.004
0.003
0.002
0.001

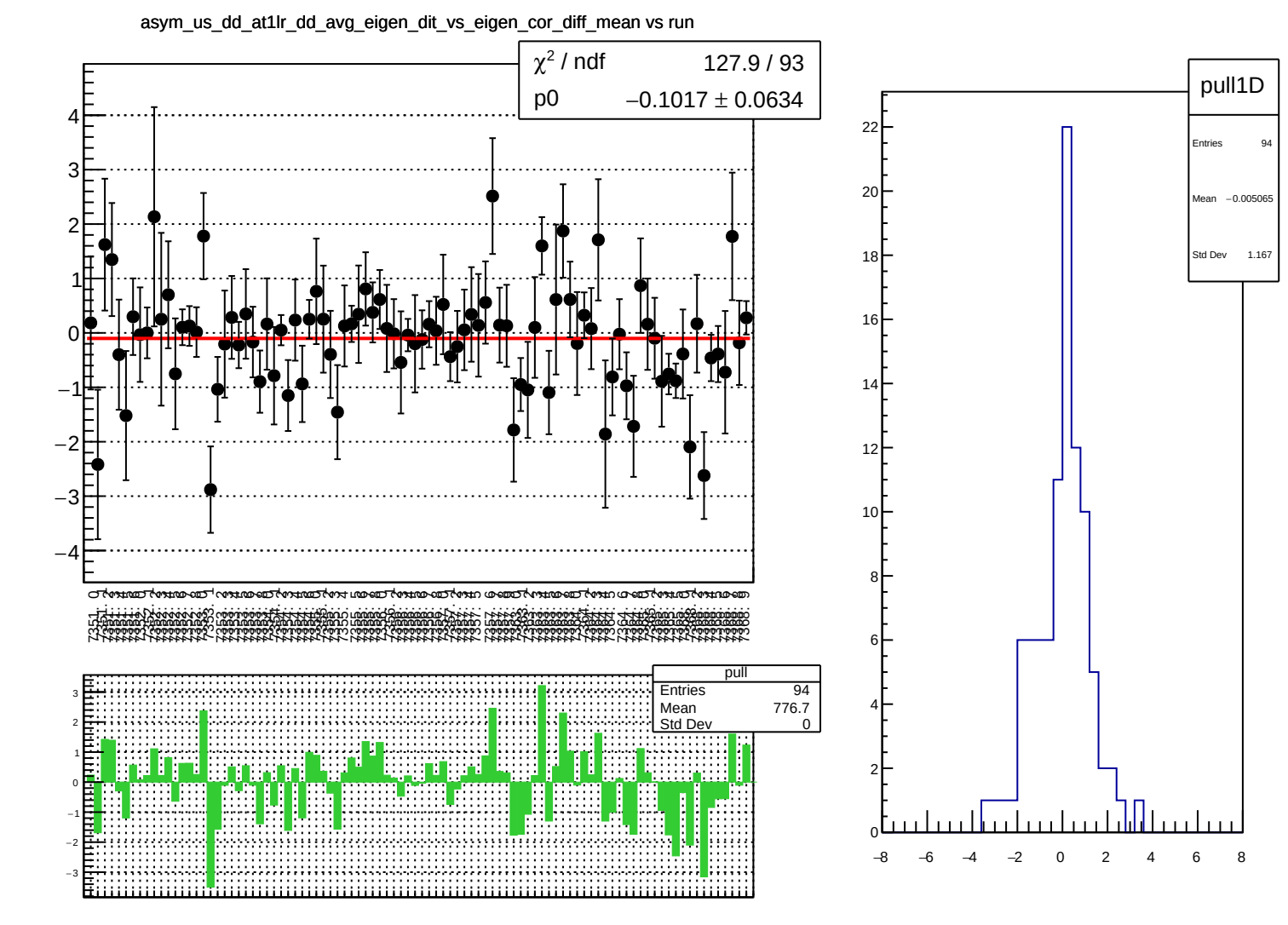
asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run

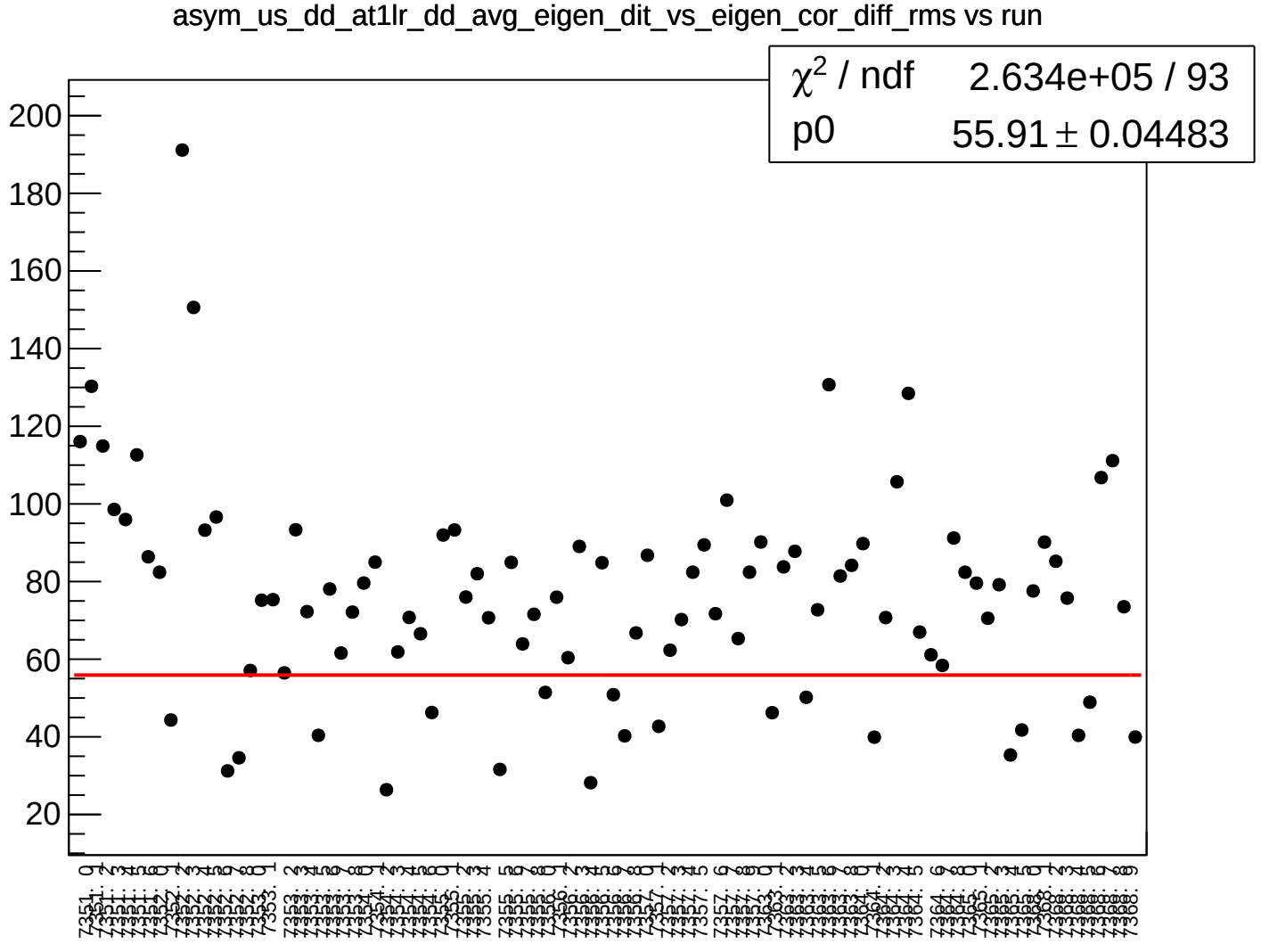


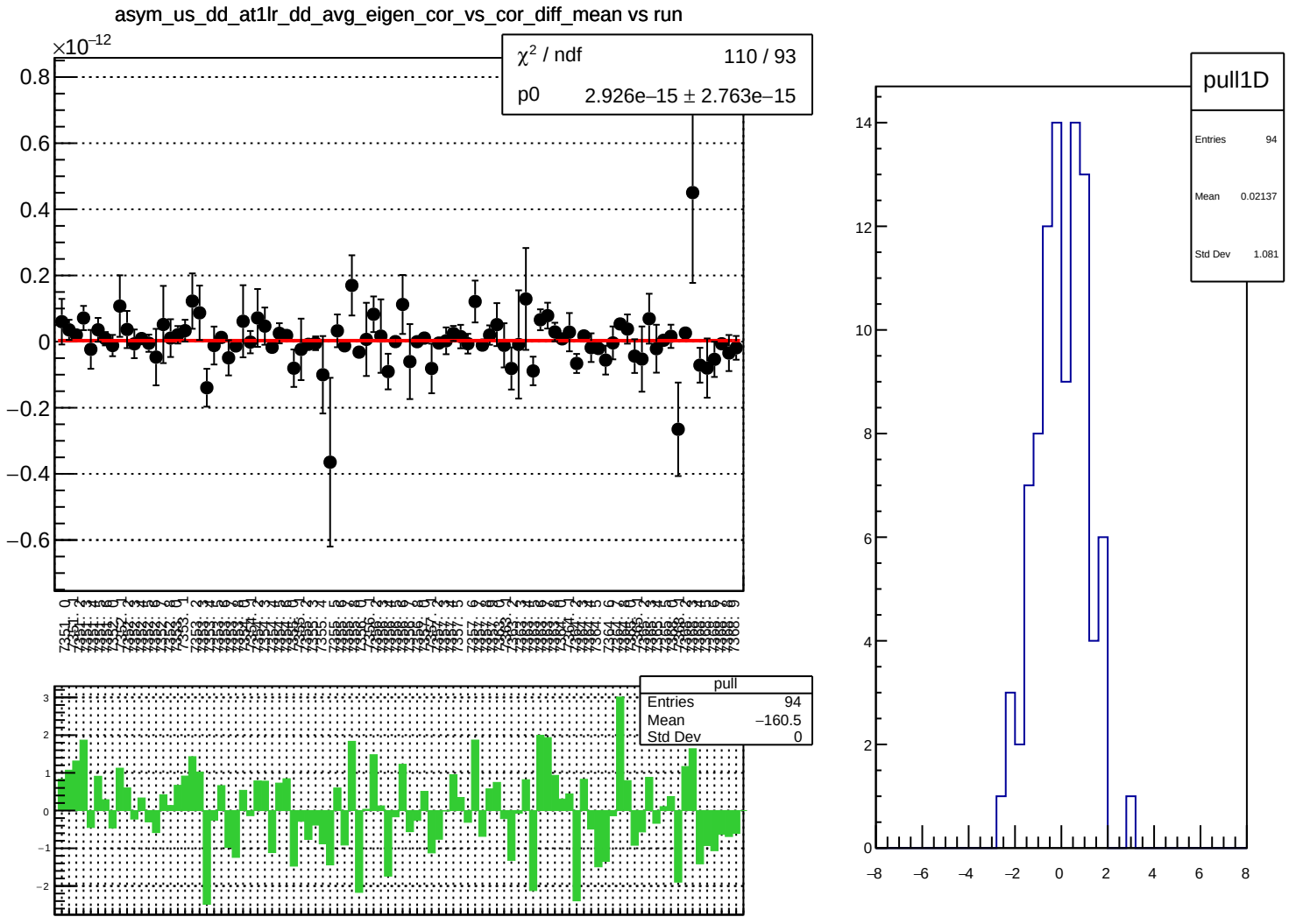


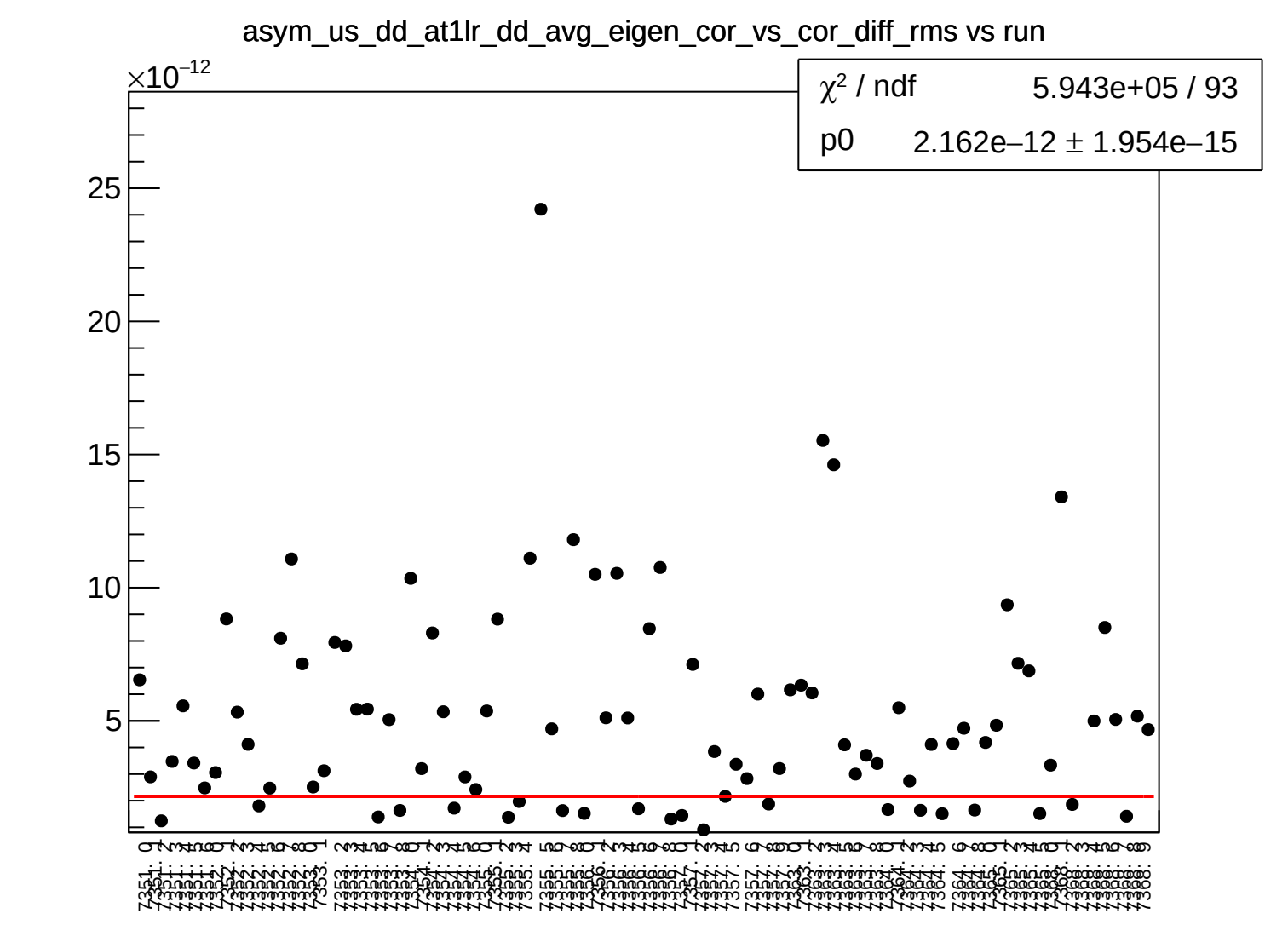


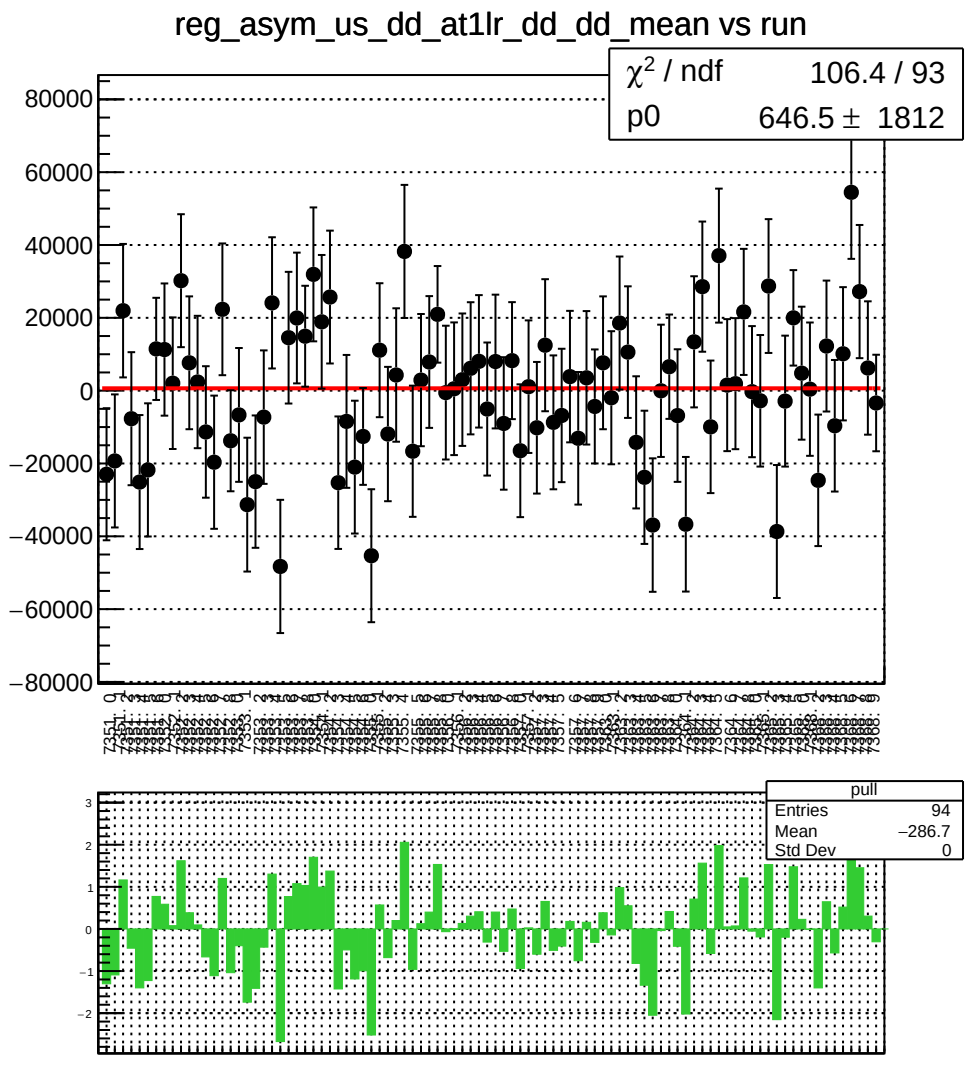

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.634e+05 / 93
p0 55.91 ± 0.04483
200
180
160
140
120
100
80
60
40
20

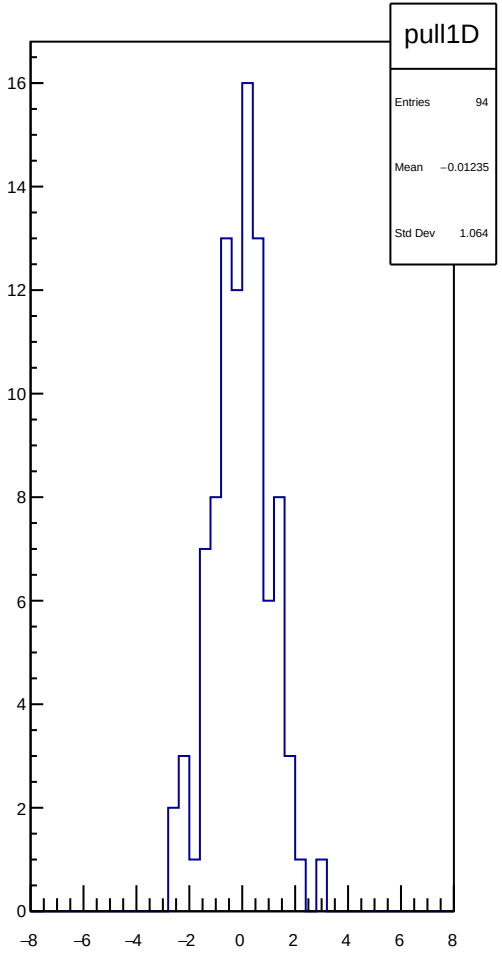

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 127.9 / 93
p0 −0.1017 ± 0.0634
pull
Entries 94
Mean 776.7
Std Dev 0
pull1D
Entries 94
Mean −0.005065
Std Dev 1.167

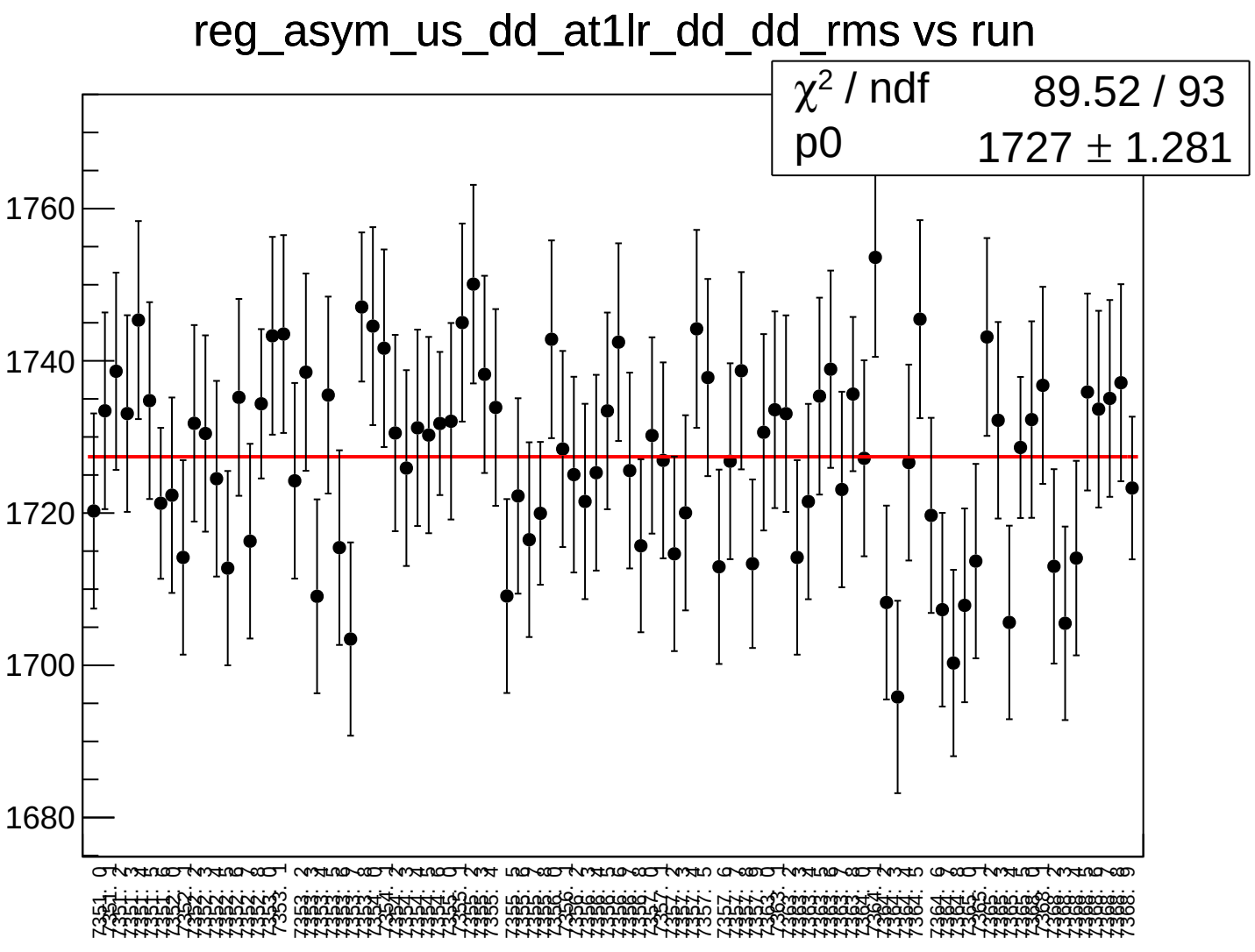

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.634e+05 / 93
p0 55.91 ± 0.04483
200
180
160
140
120
100
80
60
40
20

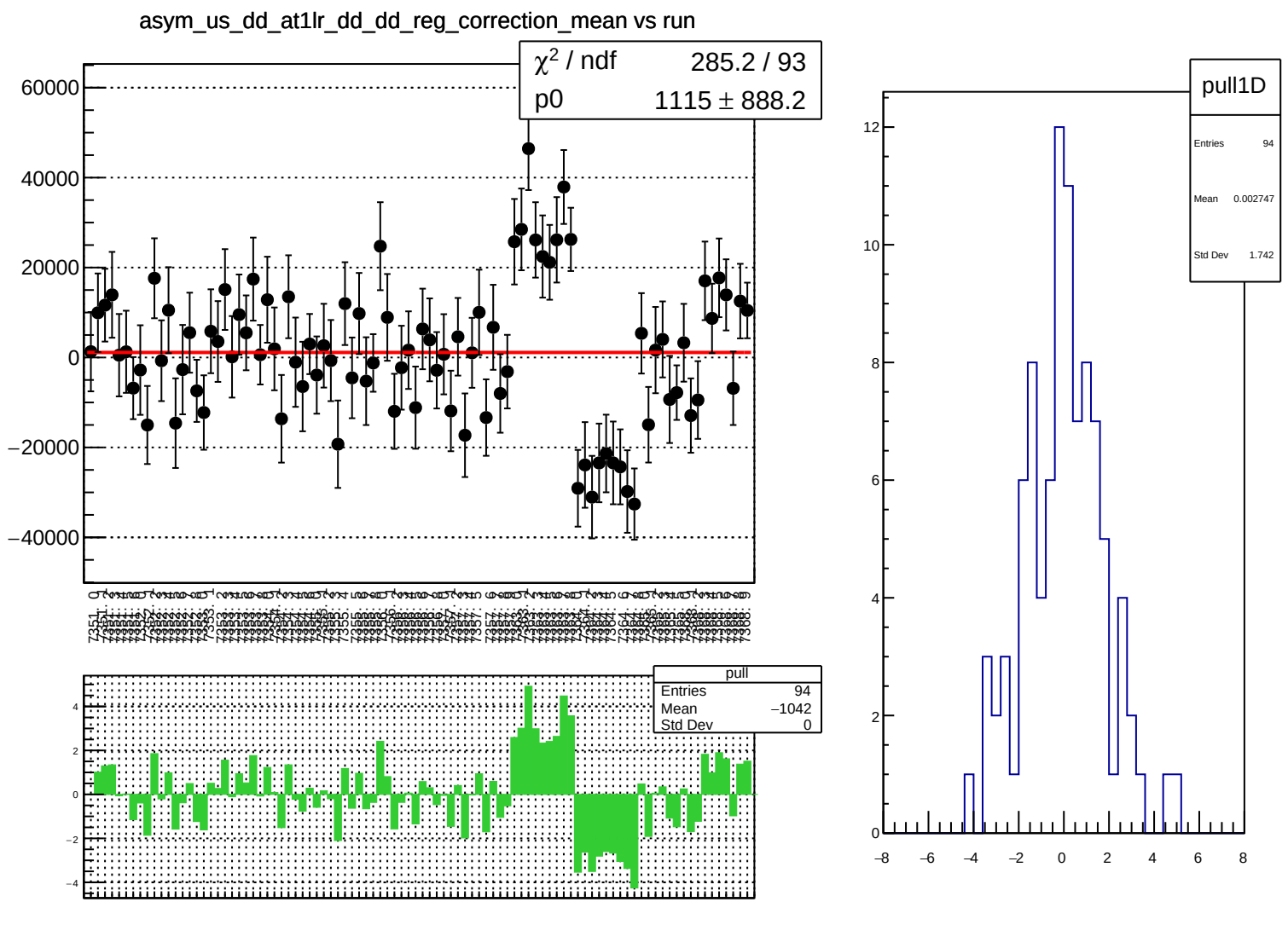

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 110 / 93
p0 2.926e−15 ± 2.763e−15
pull
Entries 94
Mean −160.5
Std Dev 0
pull1D
Entries 94
Mean 0.02137
Std Dev 1.081

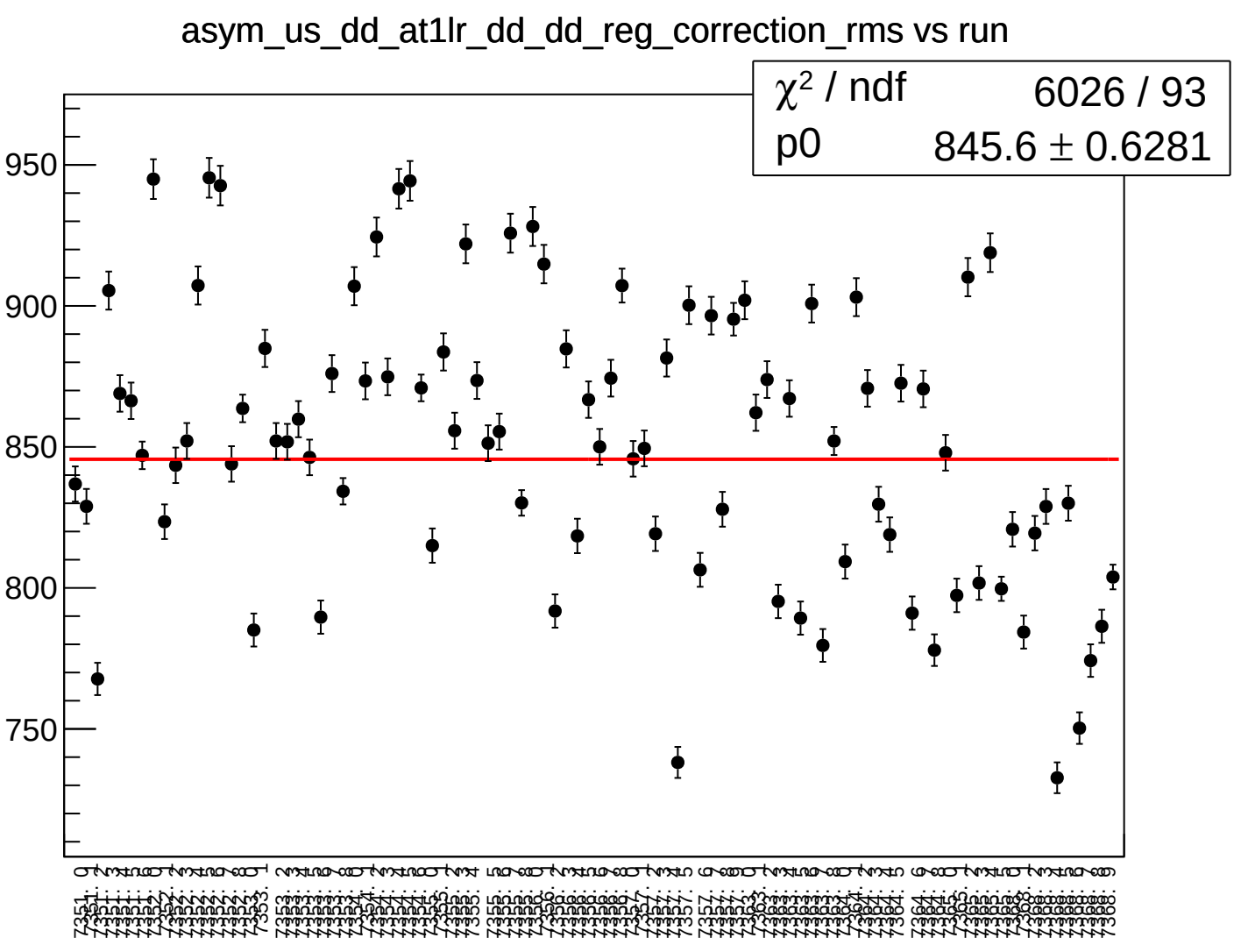

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.943e+05 / 93
p0 2.162e−12 ± 1.954e−15
25
20
15
10
5

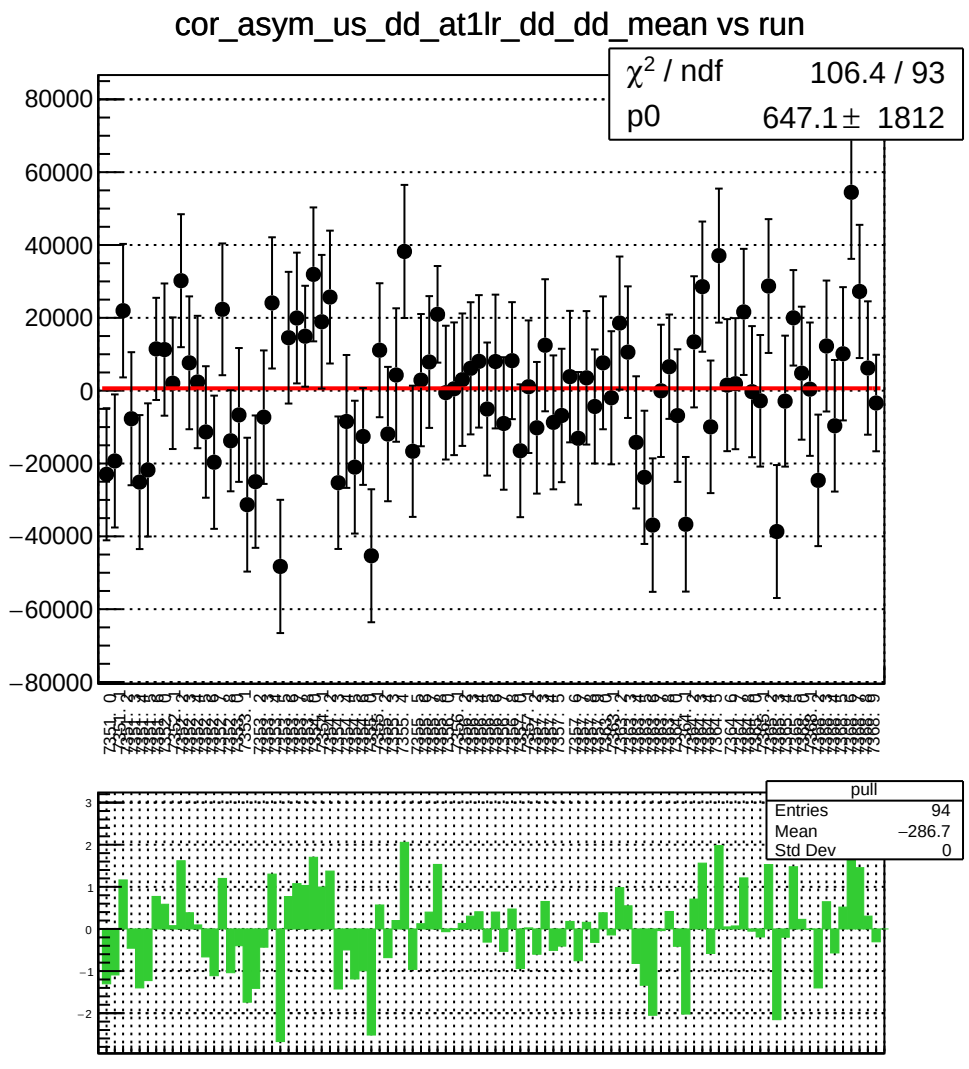

reg_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 106.4 / 93
p0 646.5 ± 1812
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean −286.7
Std Dev 0
3
2
1
0
−1
−2

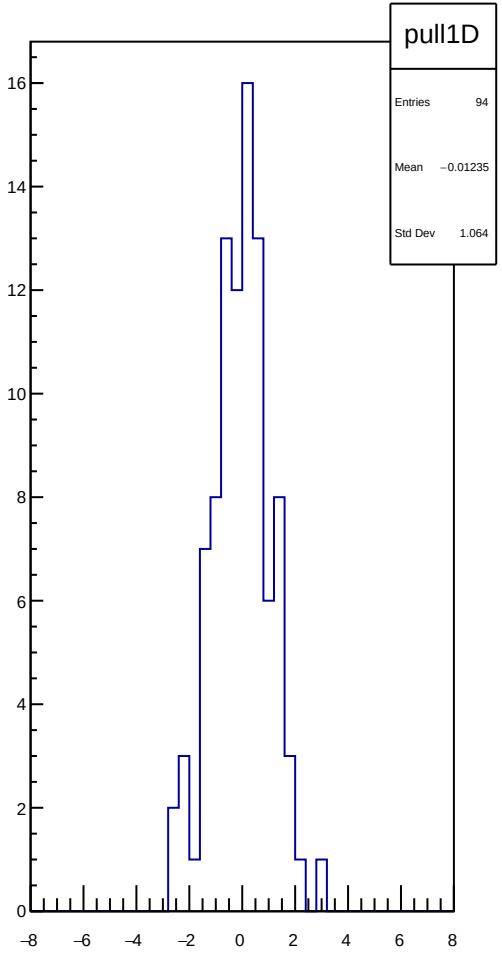

pull1D
Entries 94
Mean −0.01235
Std Dev 1.064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

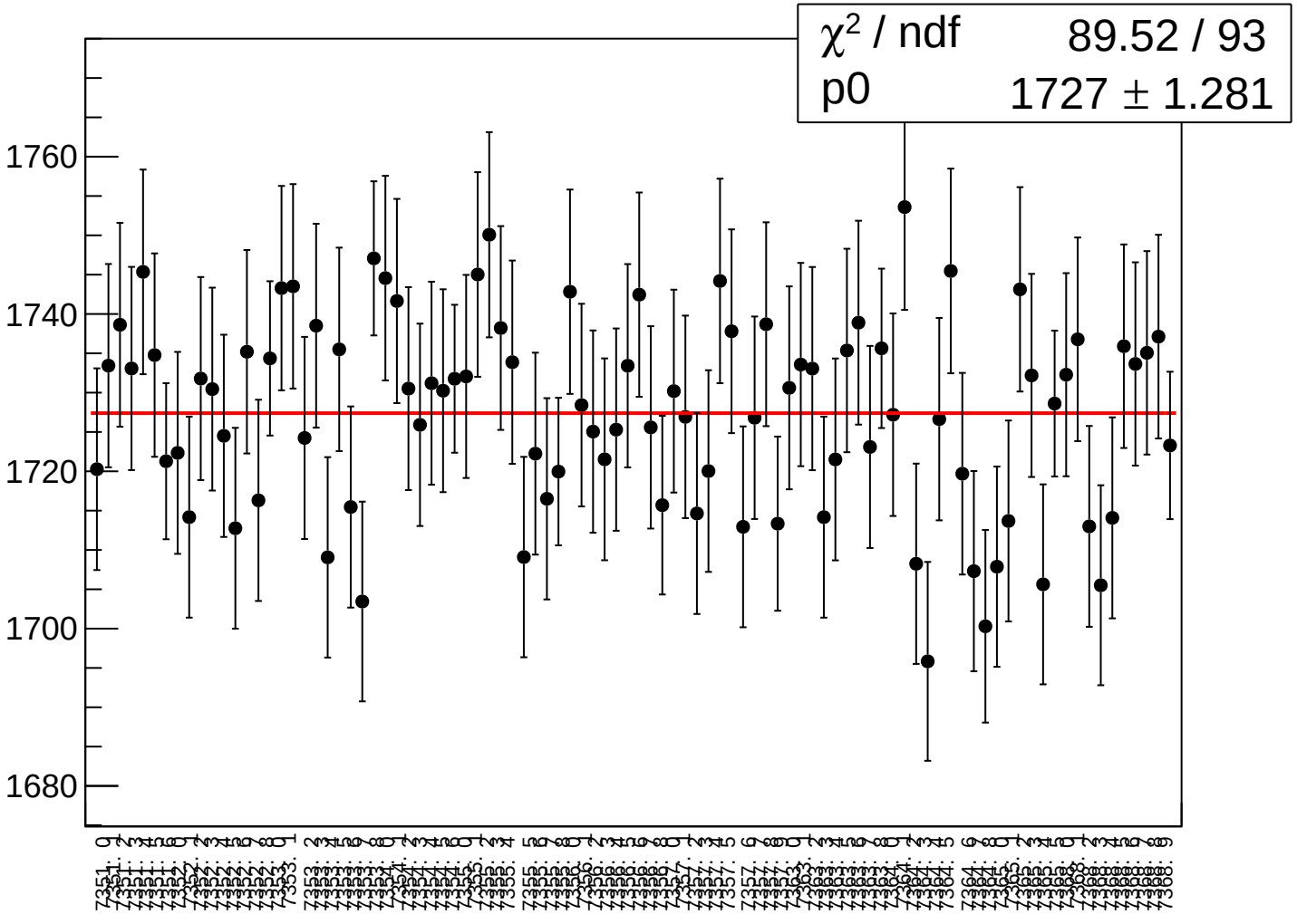

reg_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 89.52 / 93
p0 1727 ± 1.281
1760
1740
1720
1700
1680

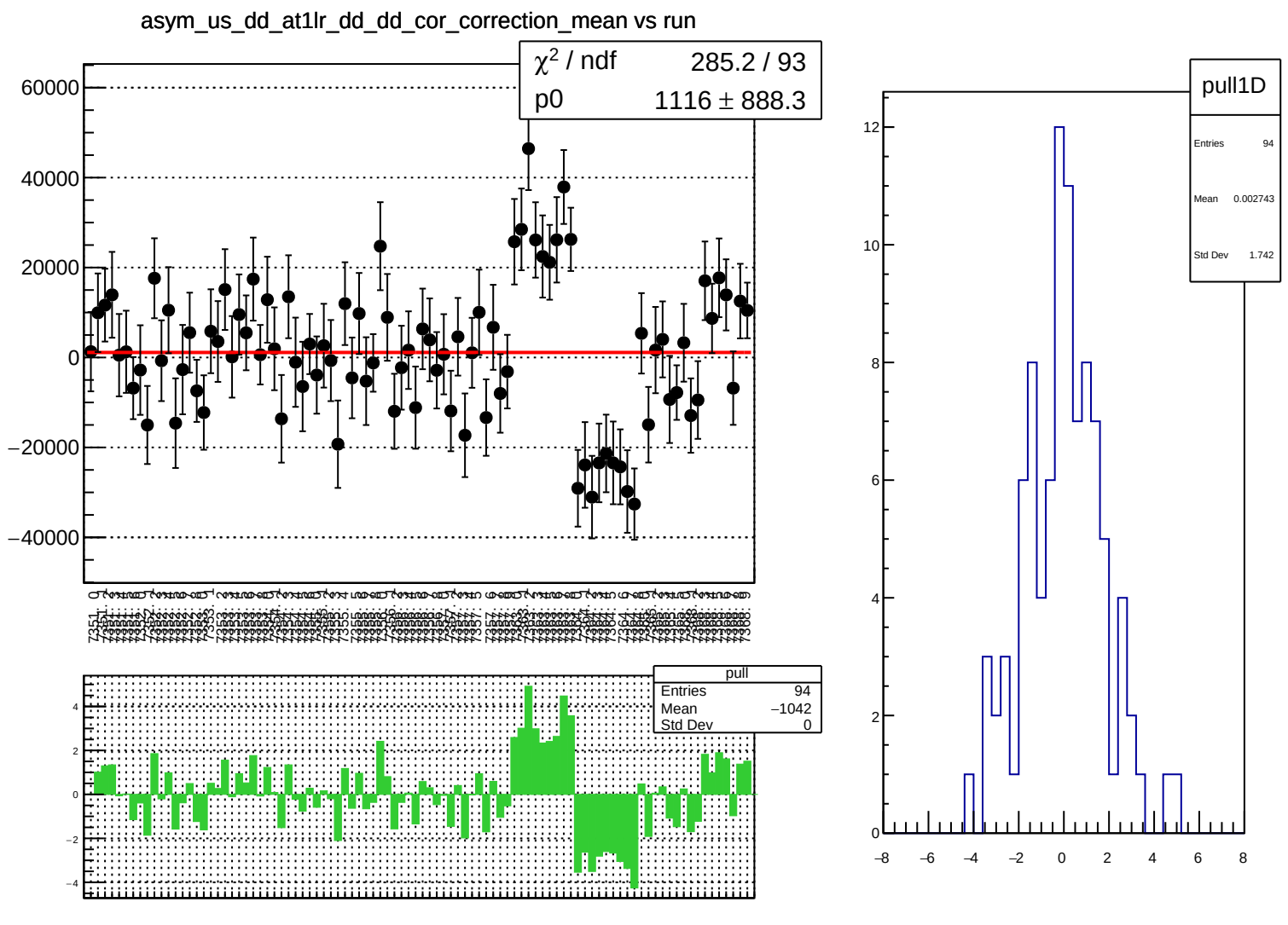

asym_us_dd_at1lr_dd_dd_reg_correction_mean vs run
χ² / ndf 285.2 / 93
p0 1115 ± 888.2
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −1042
Std Dev 0
4
2
0
−2
−4
pull1D
Entries 94
Mean 0.002747
Std Dev 1.742
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

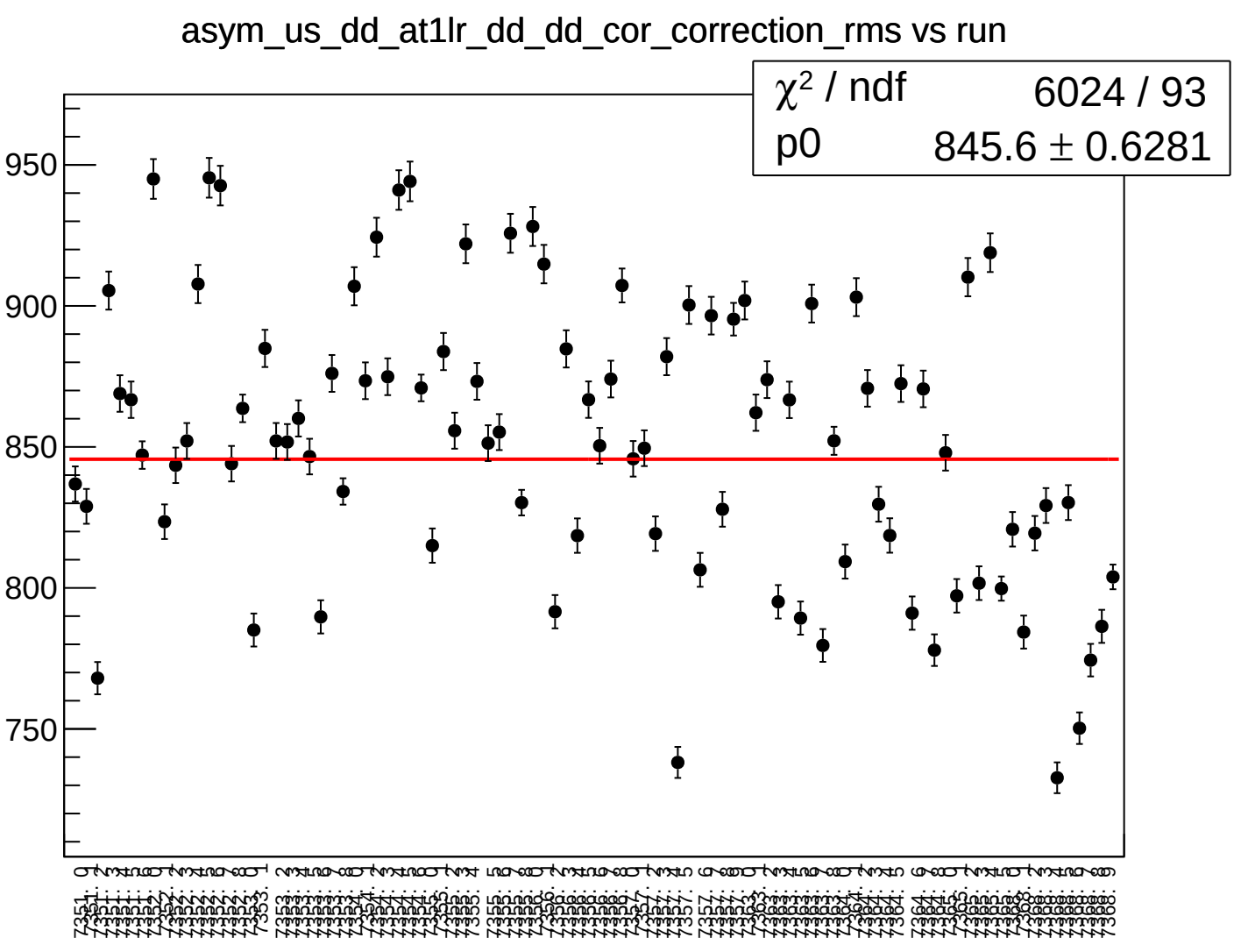

asym_us_dd_at1lr_dd_dd_reg_correction_rms vs run
χ² / ndf 6026 / 93
p0 845.6 ± 0.6281
950
900
850
800
750

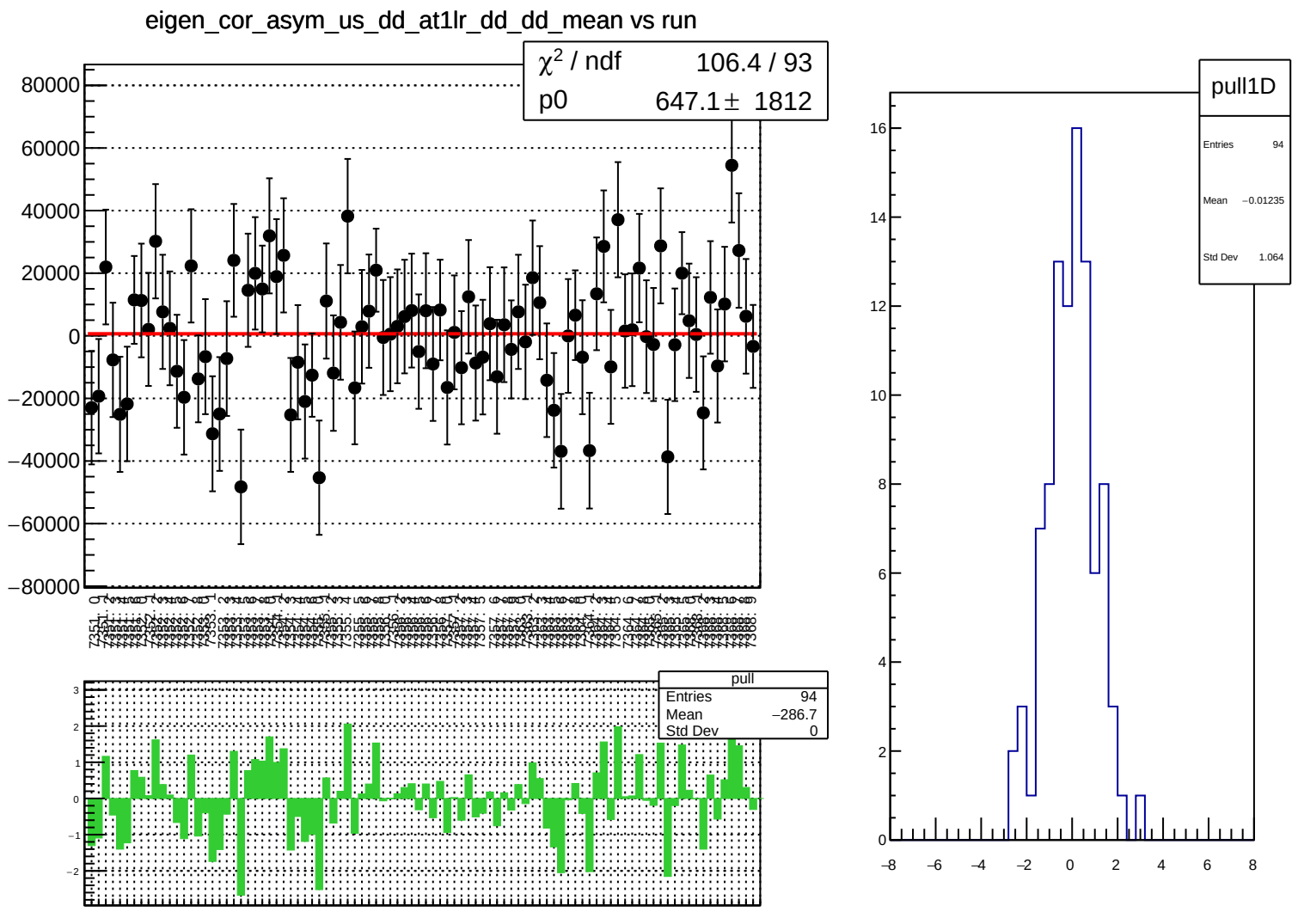

cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 106.4 / 93
p0 647.1 ± 1812
pull
Entries 94
Mean −286.7
Std Dev 0

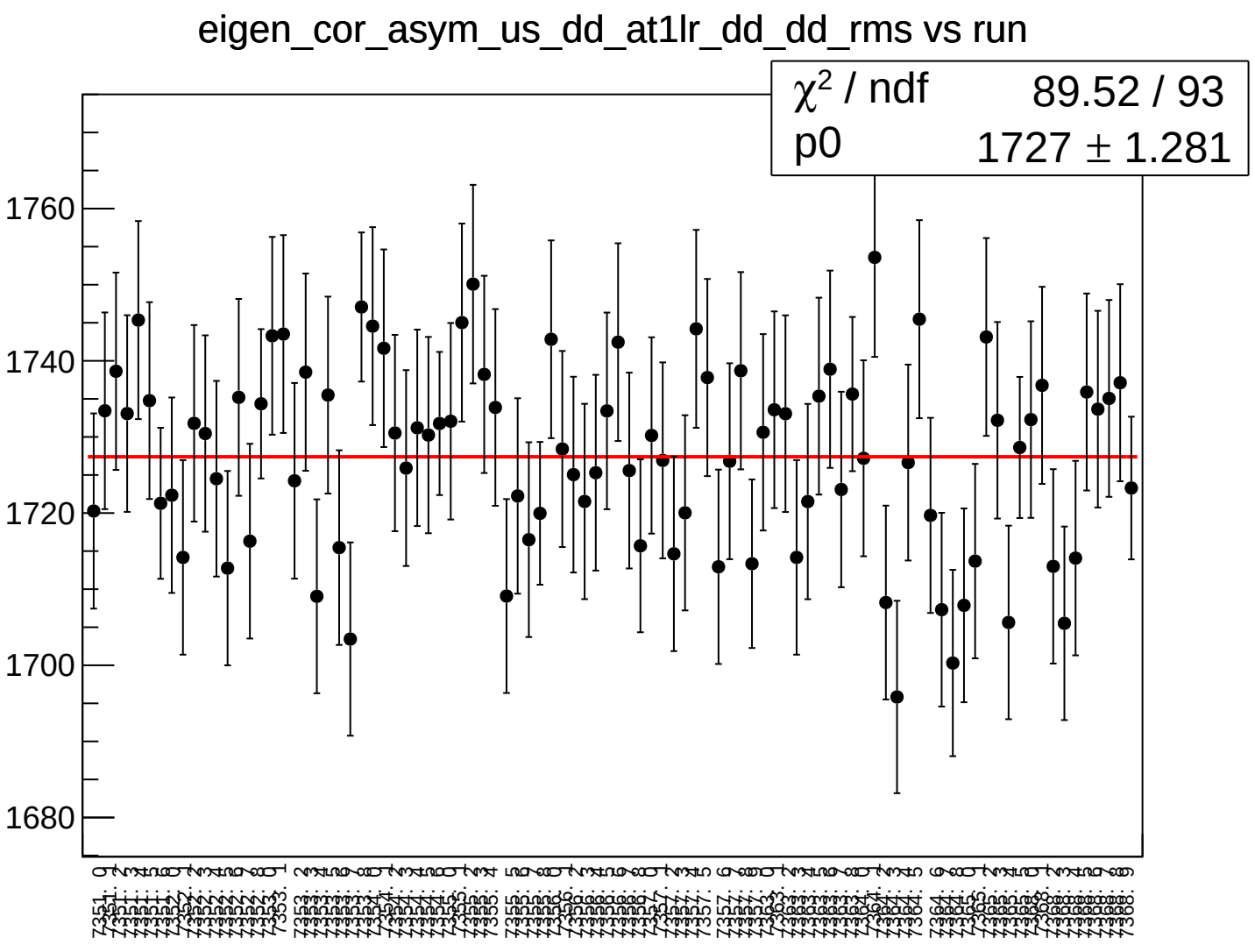

pull1D
Entries 94
Mean −0.01235
Std Dev 1.064

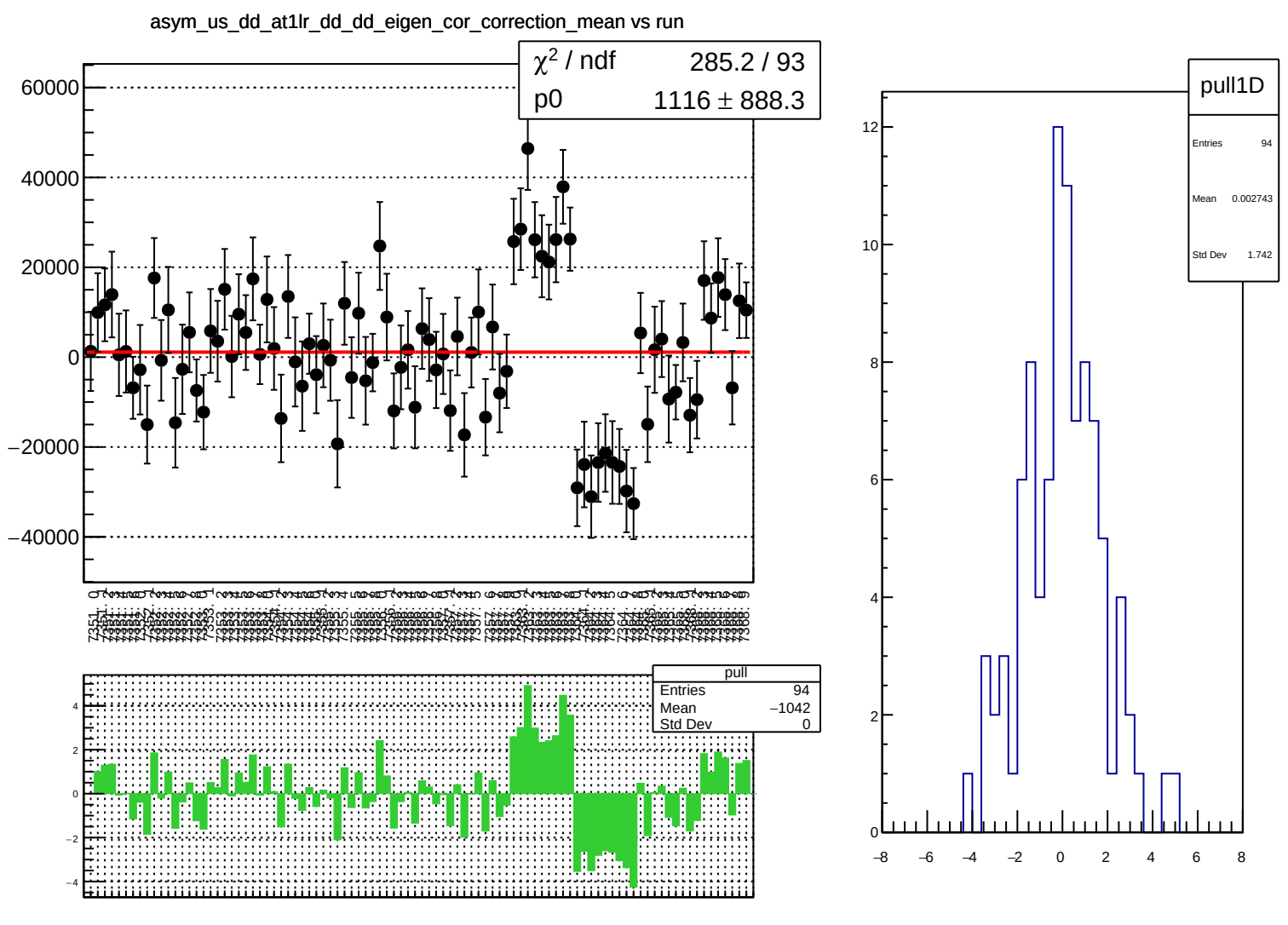

cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 89.52 / 93
p0 1727 ± 1.281
1760
1740
1720
1700
1680

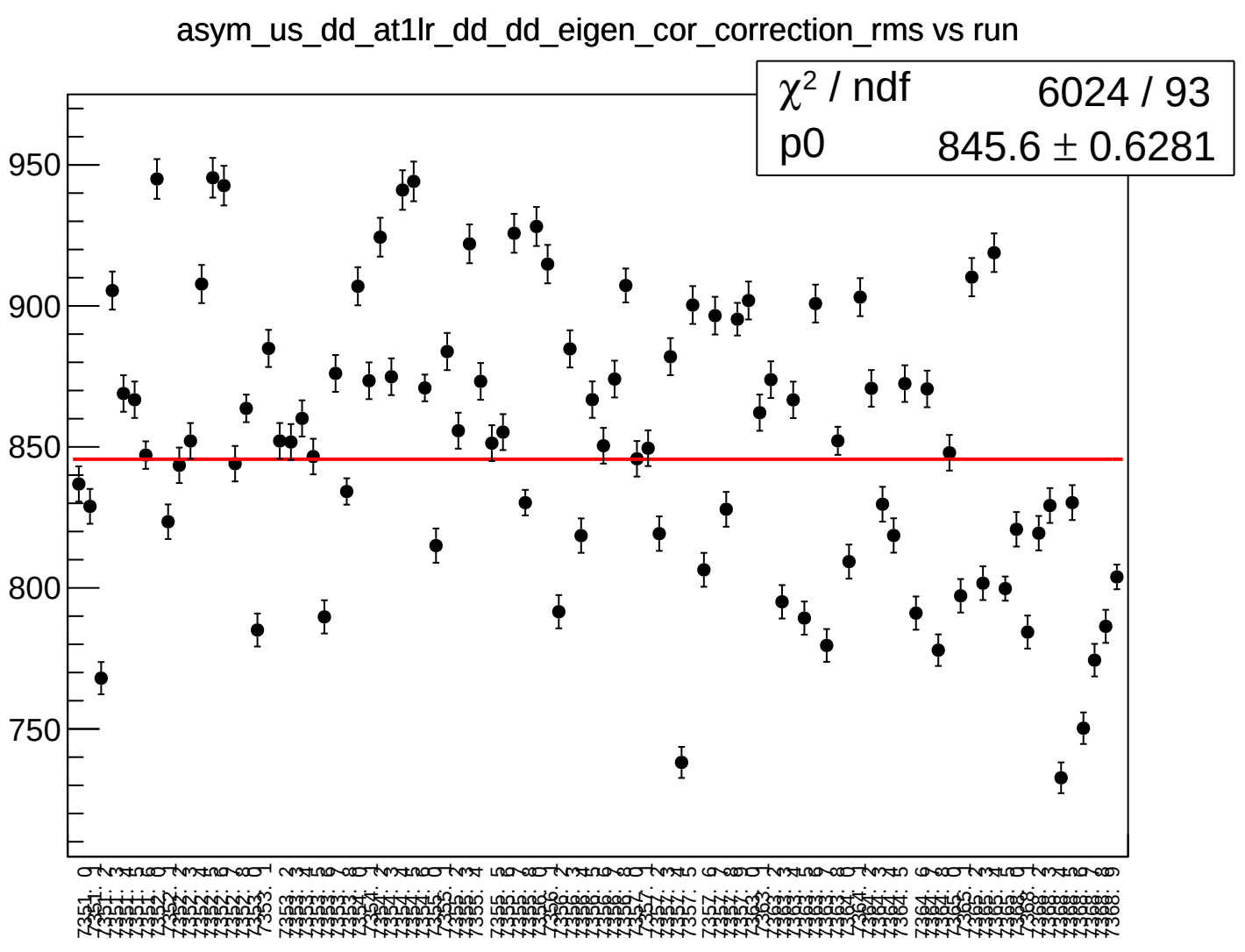

asym_us_dd_at1lr_dd_dd_cor_correction_mean vs run
χ² / ndf 285.2 / 93
p0 1116 ± 888.3
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −1042
Std Dev 0
4
2
0
−2
−4
pull1D
Entries 94
Mean 0.002743
Std Dev 1.742
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

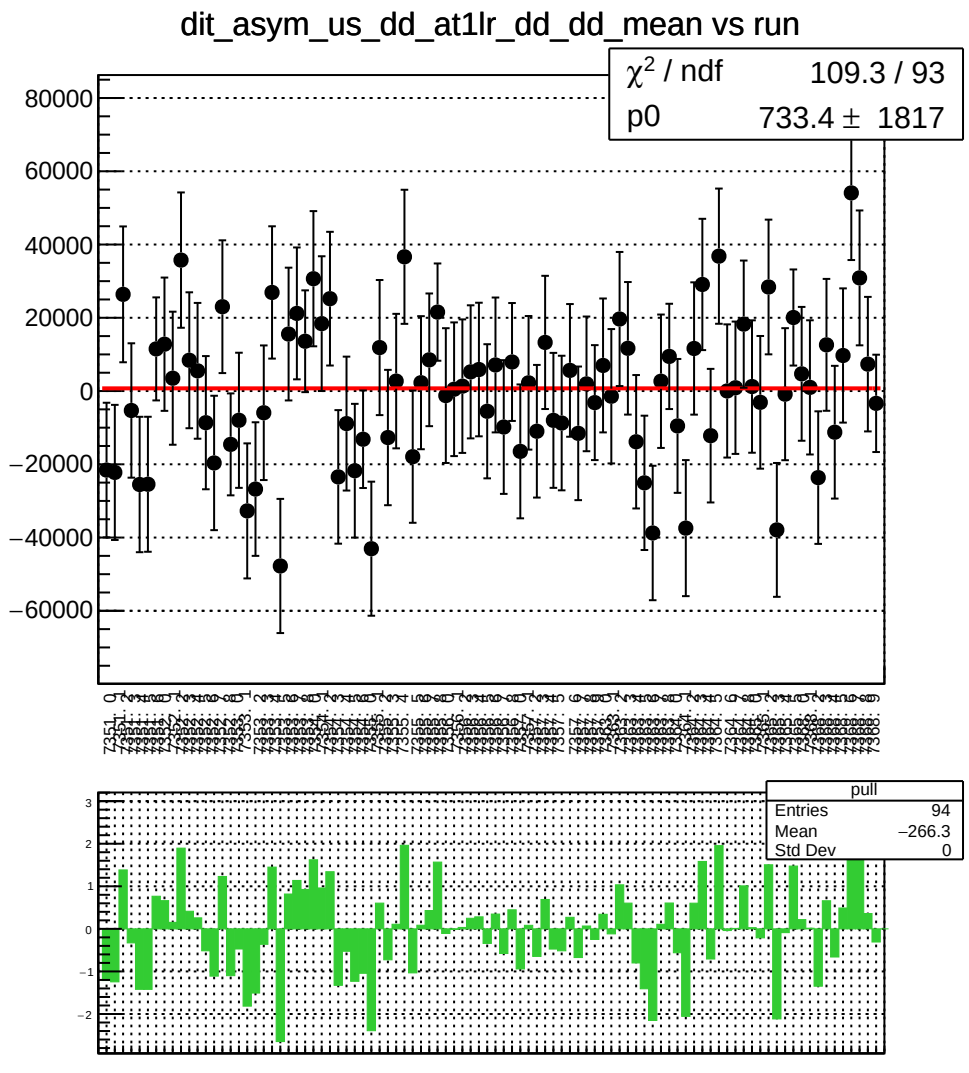

asym_us_dd_at1lr_dd_dd_cor_correction_rms vs run
χ² / ndf 6024 / 93
p0 845.6 ± 0.6281
950
900
850
800
750

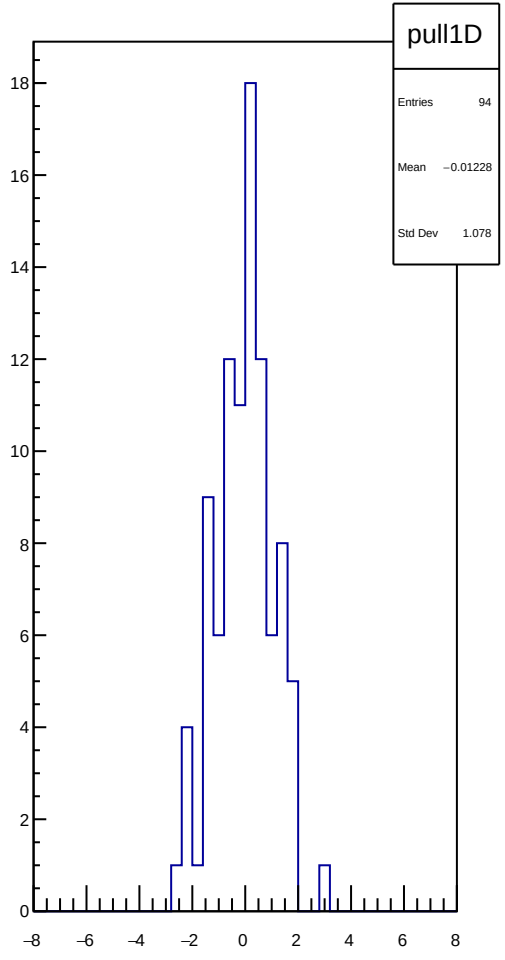

eigen_cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 106.4 / 93
p0 647.1 ± 1812
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean −286.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.01235
Std Dev 1.064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

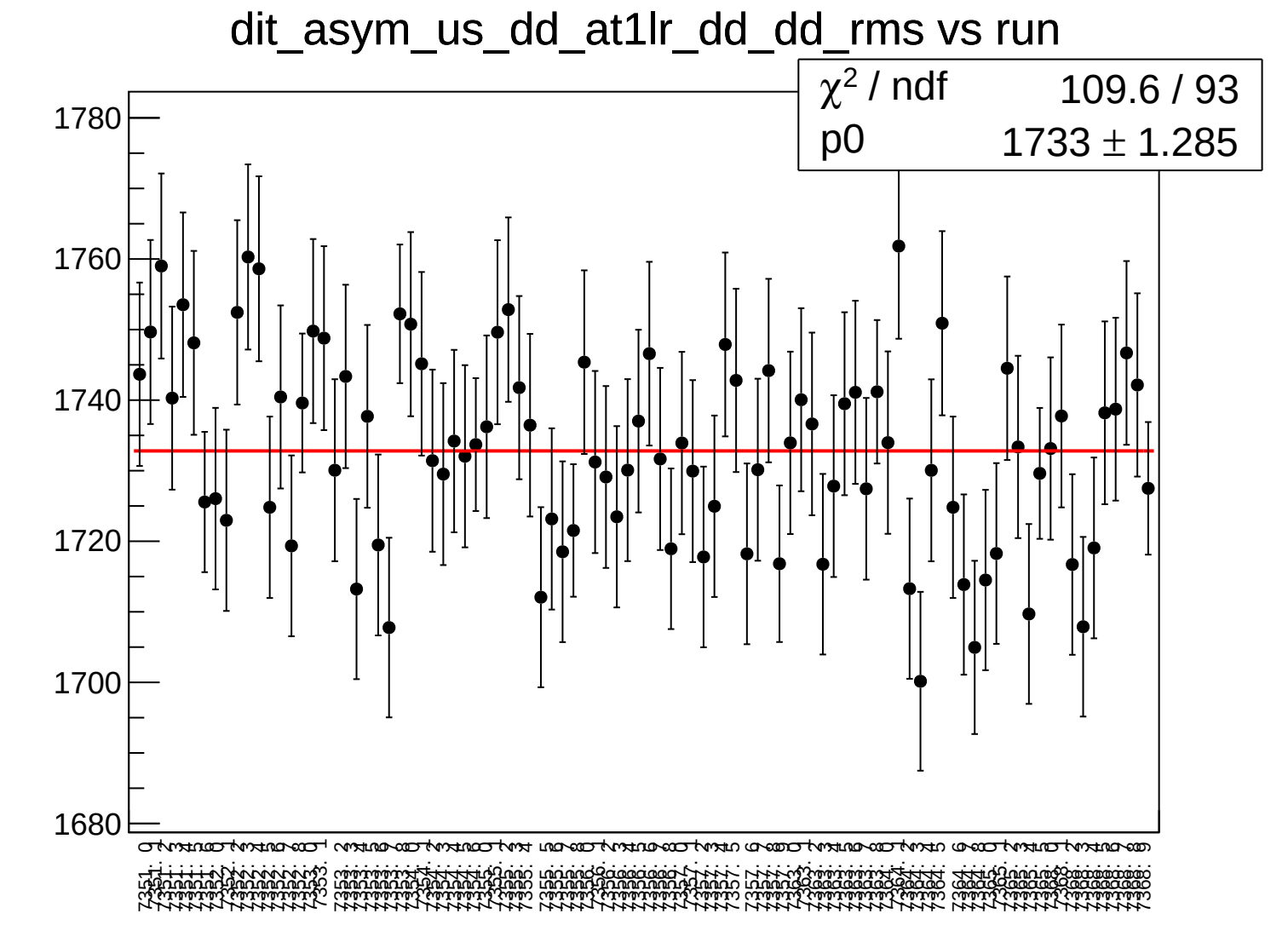

eigen_cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 89.52 / 93
p0 1727 ± 1.281
1760
1740
1720
1700
1680

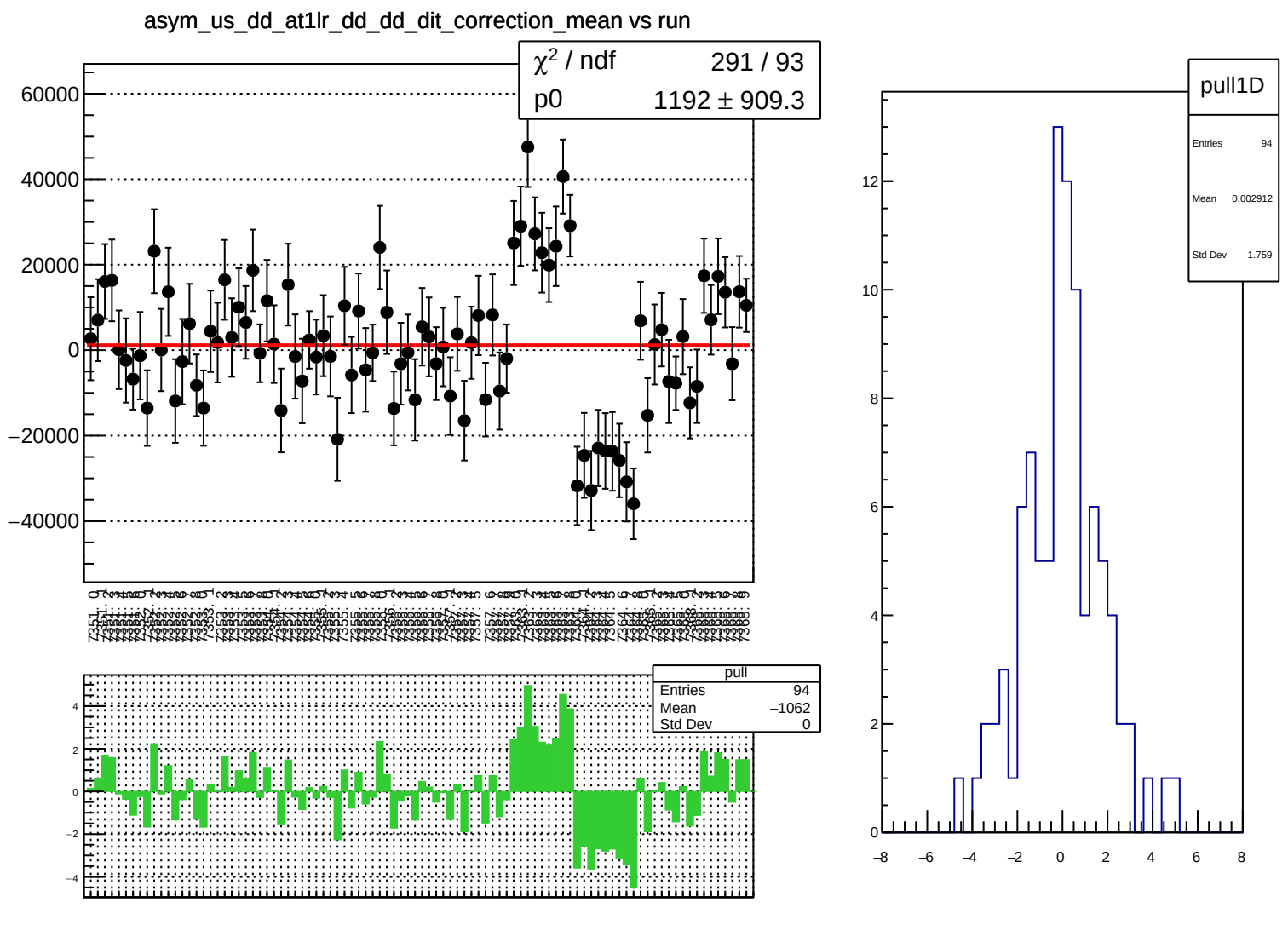

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 285.2 / 93
p0 1116 ± 888.3
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −1042
Std Dev 0
4
2
0
−2
−4
pull1D
Entries 94
Mean 0.002743
Std Dev 1.742
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

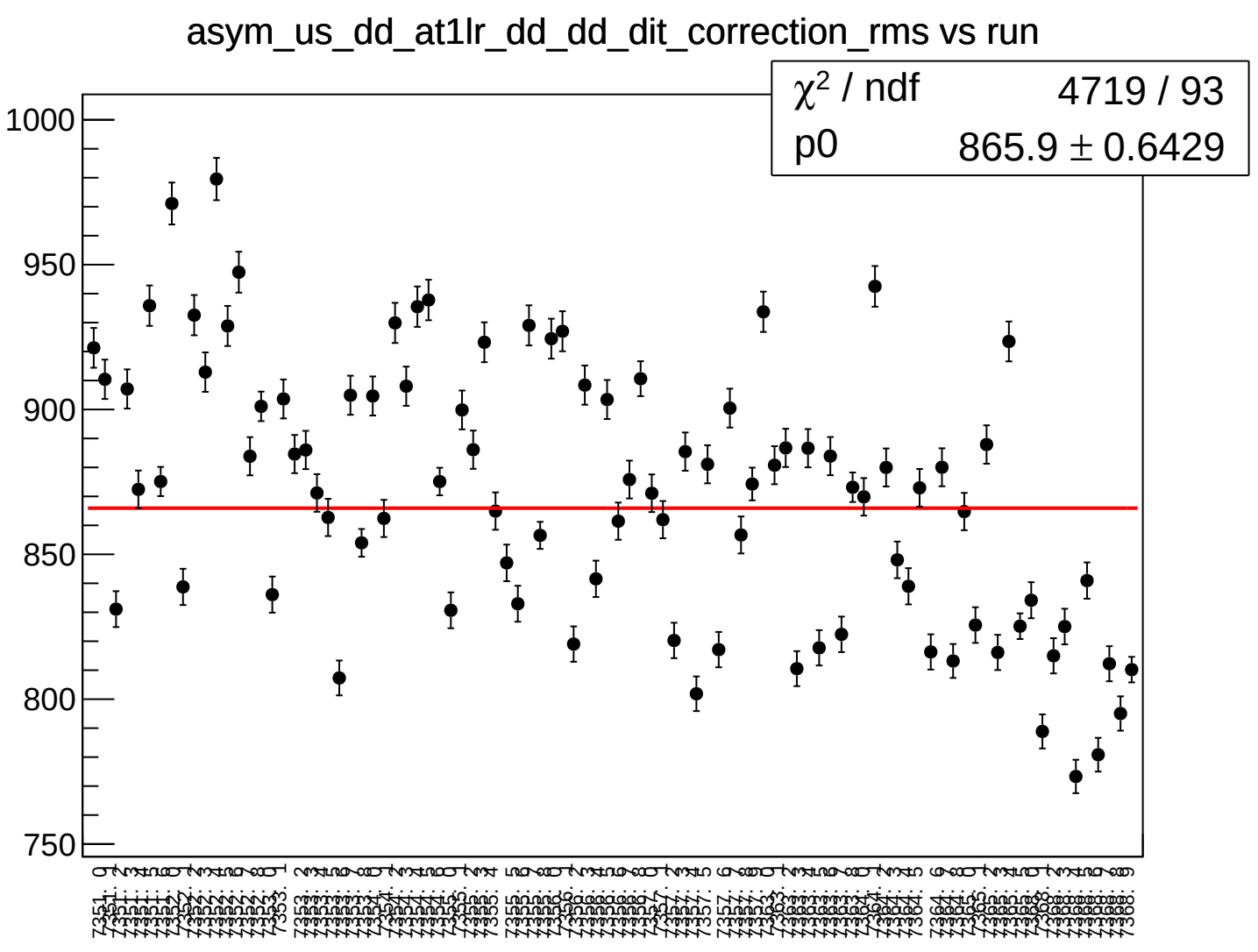

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 6024 / 93
p0 845.6 ± 0.6281
950
900
850
800
750

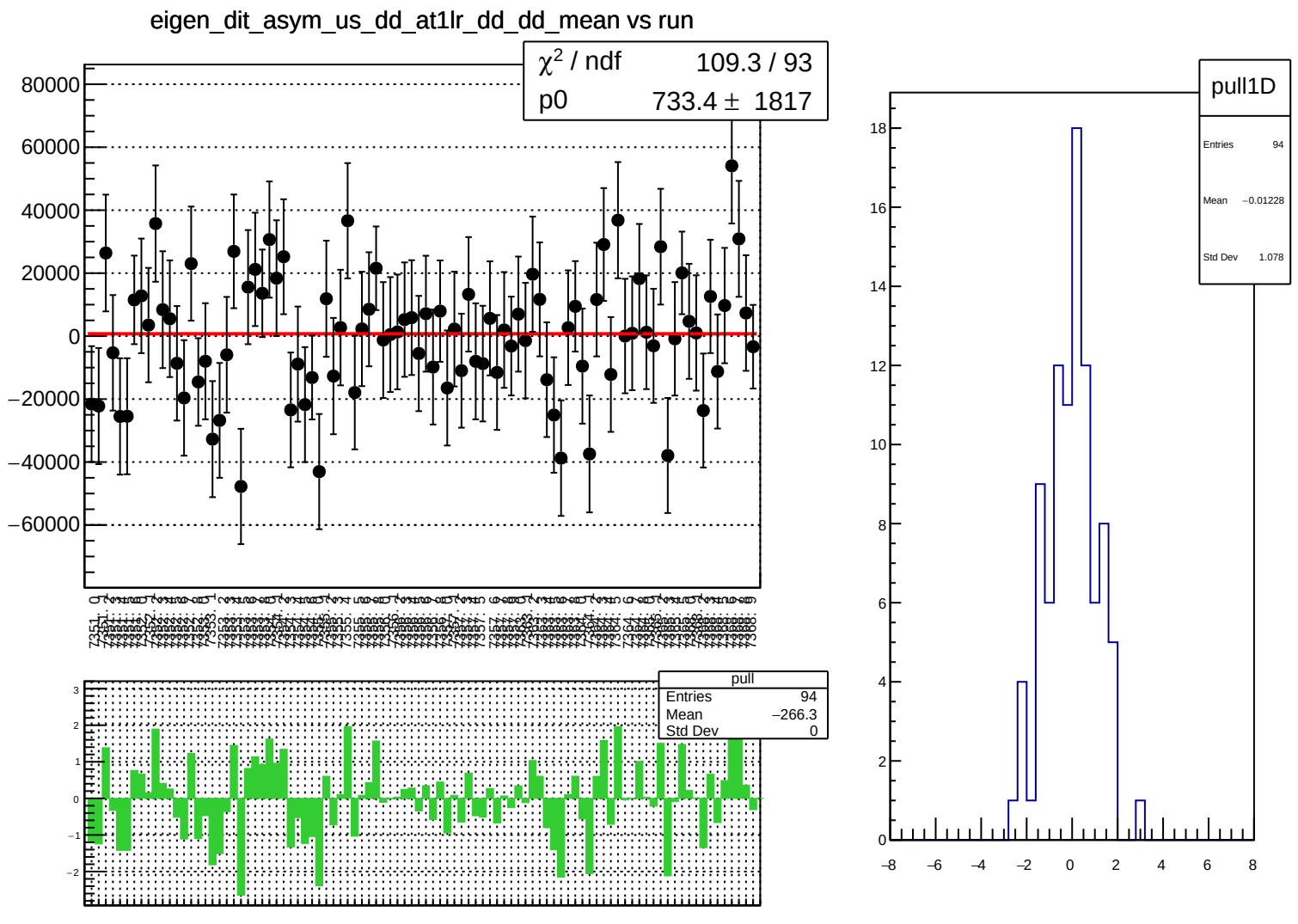

dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 109.3 / 93
p0 733.4 ± 1817
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −266.3
Std Dev 0
3
2
1
0
−1
−2

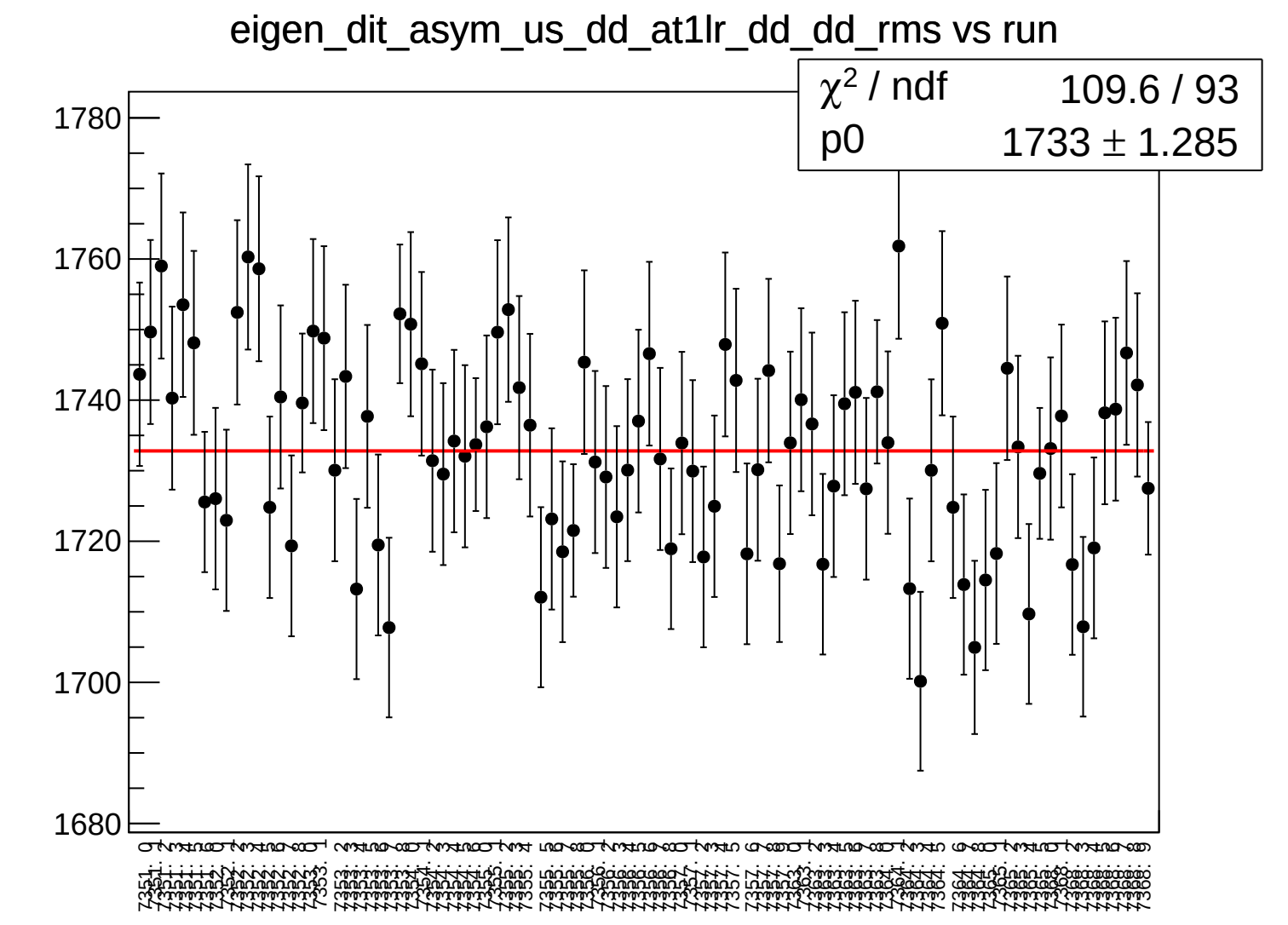

pull1D
Entries 94
Mean −0.01228
Std Dev 1.078
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

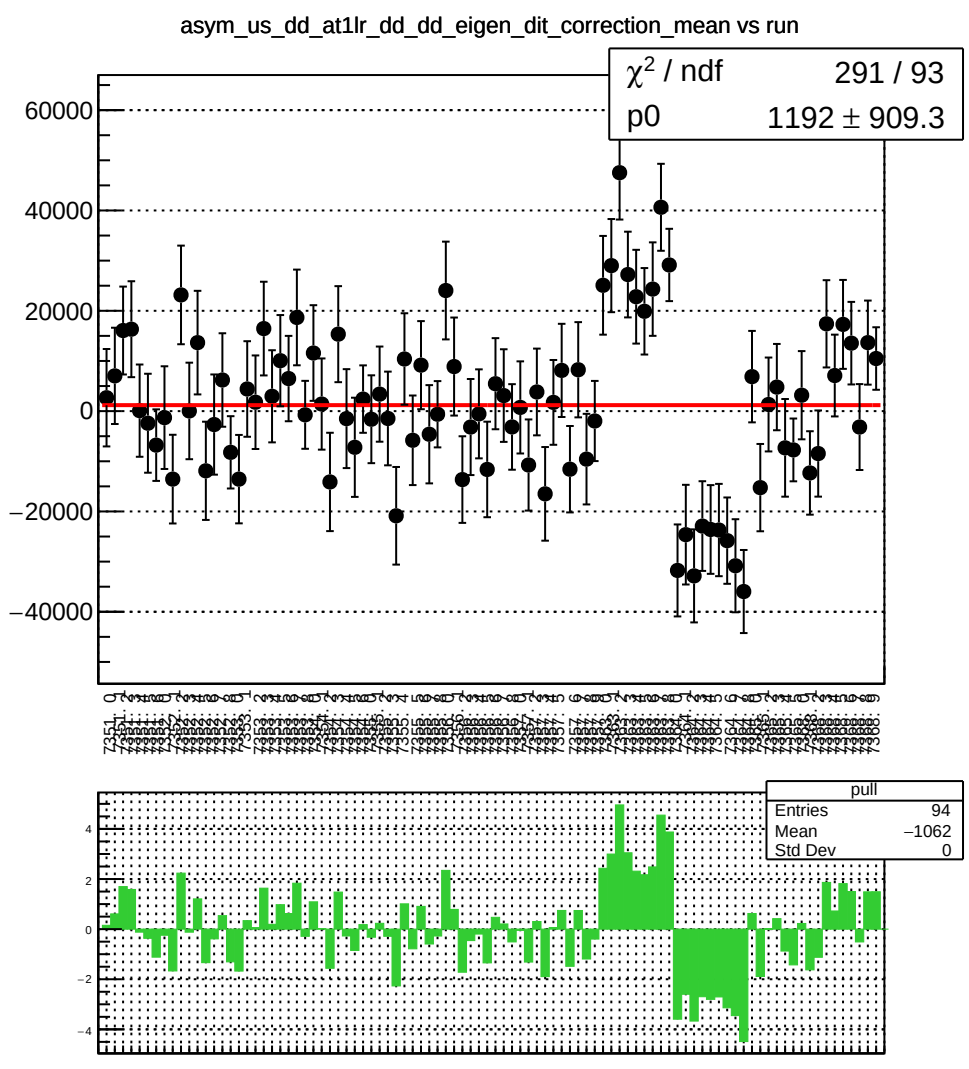

dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 109.6 / 93
p0 1733 ± 1.285
1780
1760
1740
1720
1700
1680

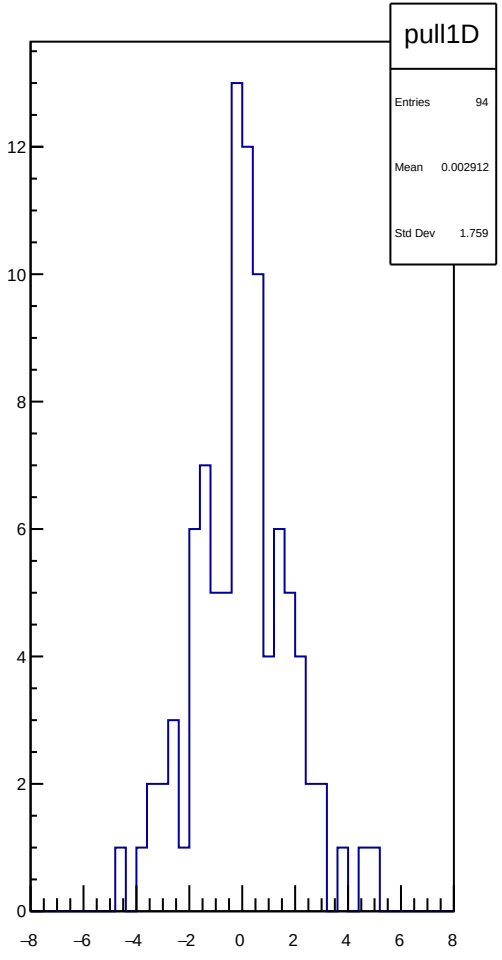

asym_us_dd_at1lr_dd_dd_dit_correction_mean vs run
χ² / ndf 291 / 93
p0 1192 ± 909.3
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −1062
Std Dev 0
4
2
0
−2
−4
pull1D
Entries 94
Mean 0.002912
Std Dev 1.759
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

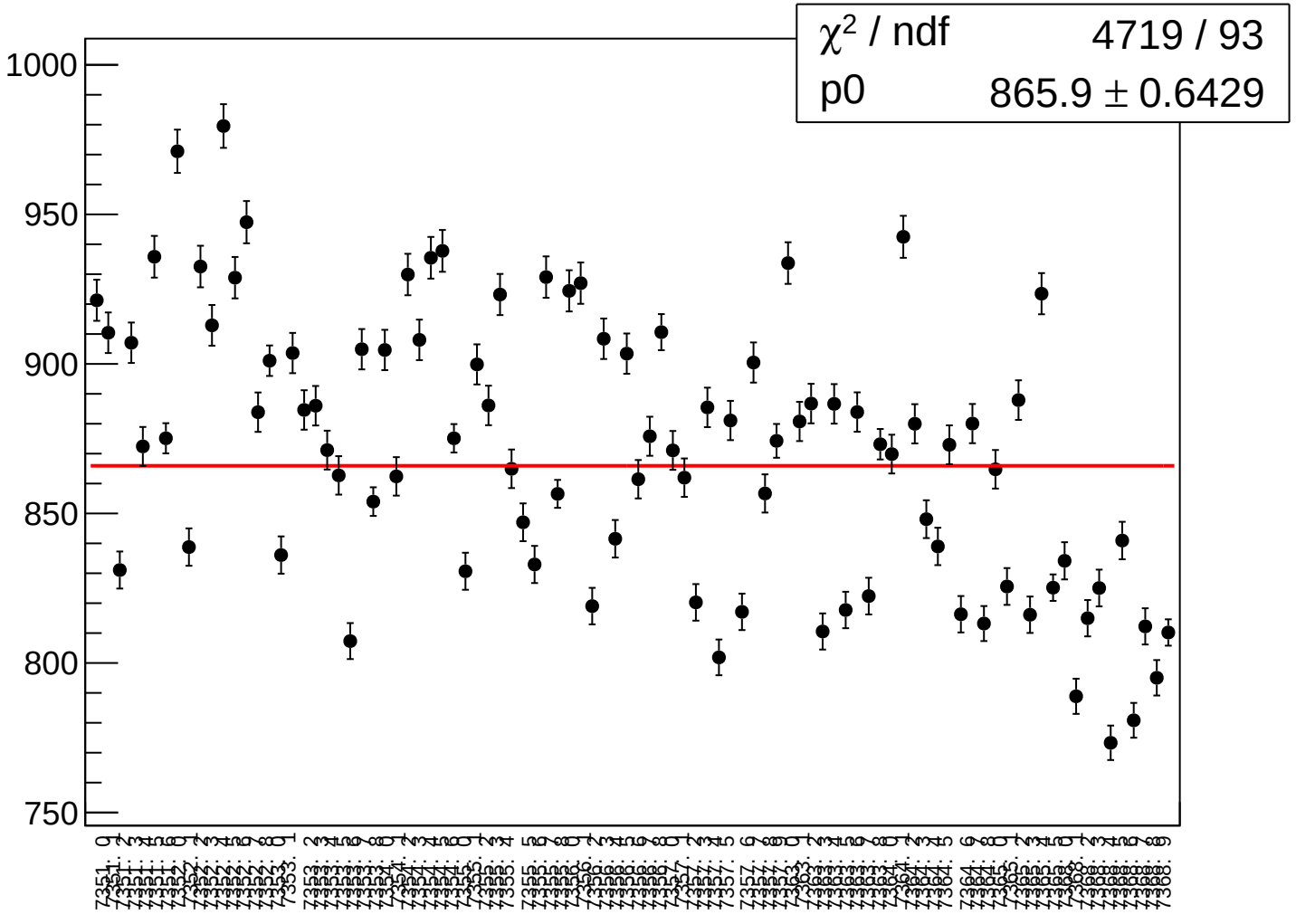

asym_us_dd_at1lr_dd_dd_dit_correction_rms vs run
χ² / ndf 4719 / 93
p0 865.9 ± 0.6429
1000
950
900
850
800
750

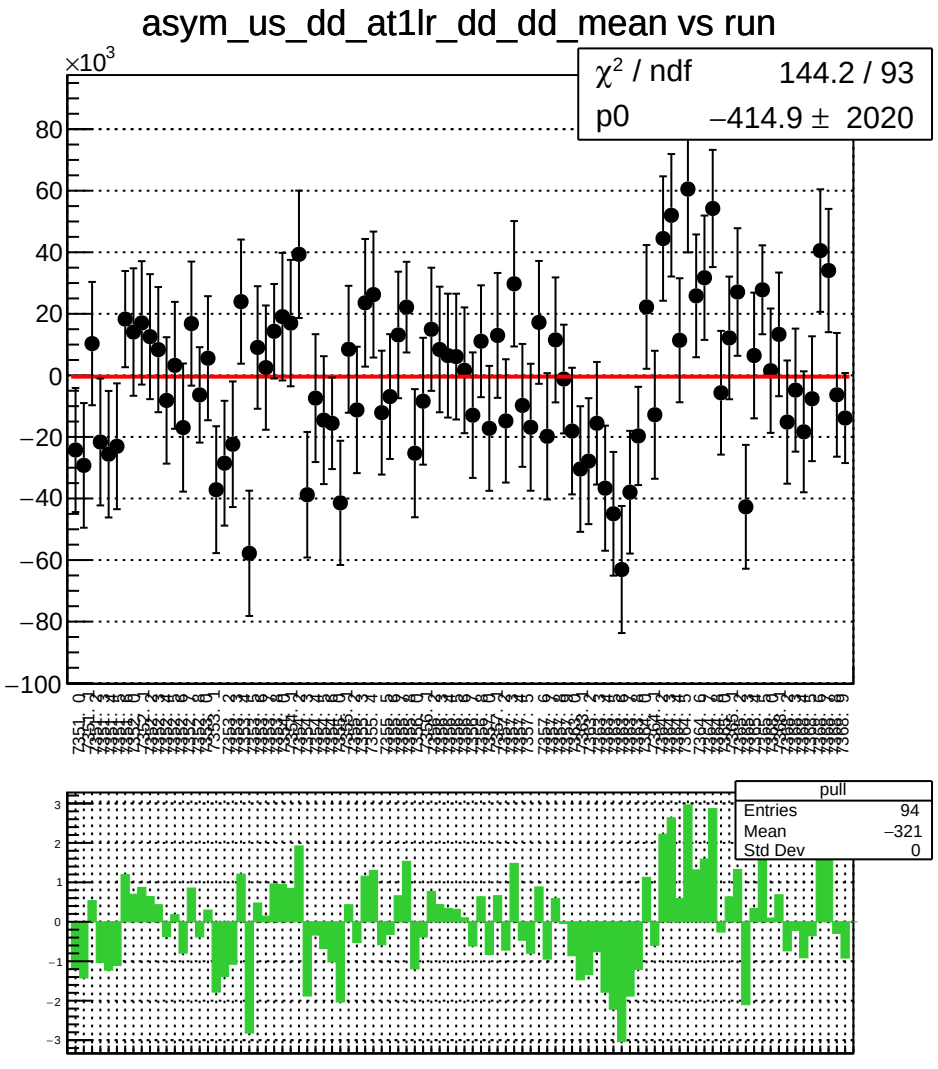

eigen_dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 109.3 / 93
p0 733.4 ± 1817
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −266.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.01228
Std Dev 1.078
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

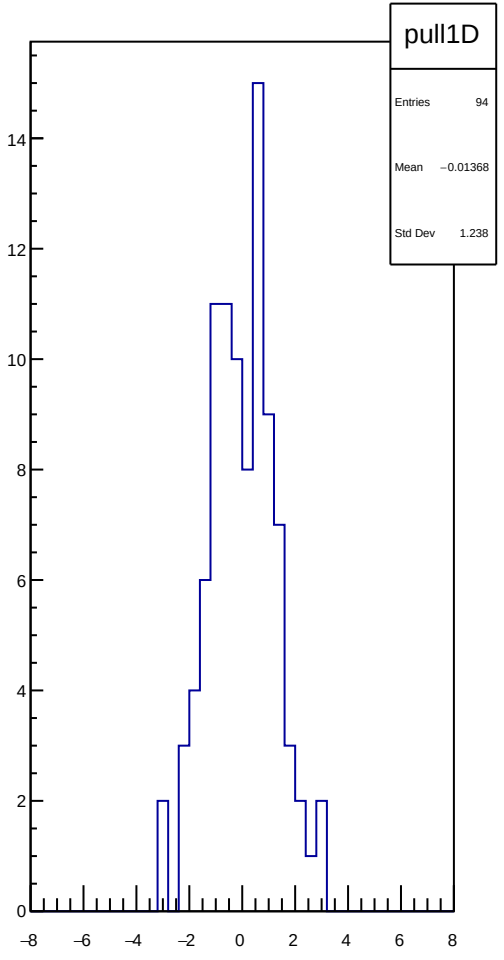

eigen_dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 109.6 / 93
p0 1733 ± 1.285
1780
1760
1740
1720
1700
1680

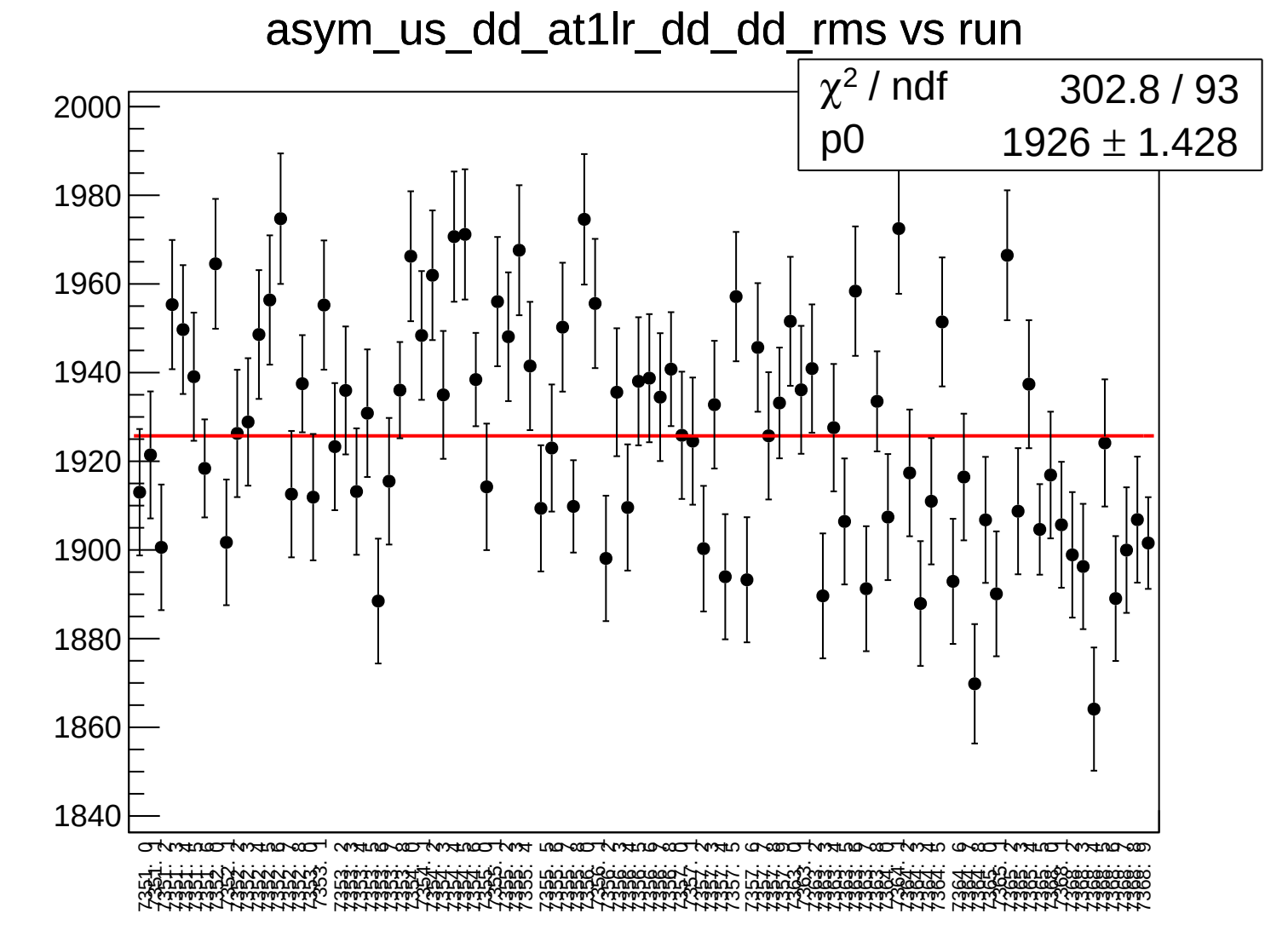

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 291 / 93
p0 1192 ± 909.3
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −1062
Std Dev 0
4
2
0
−2
−4

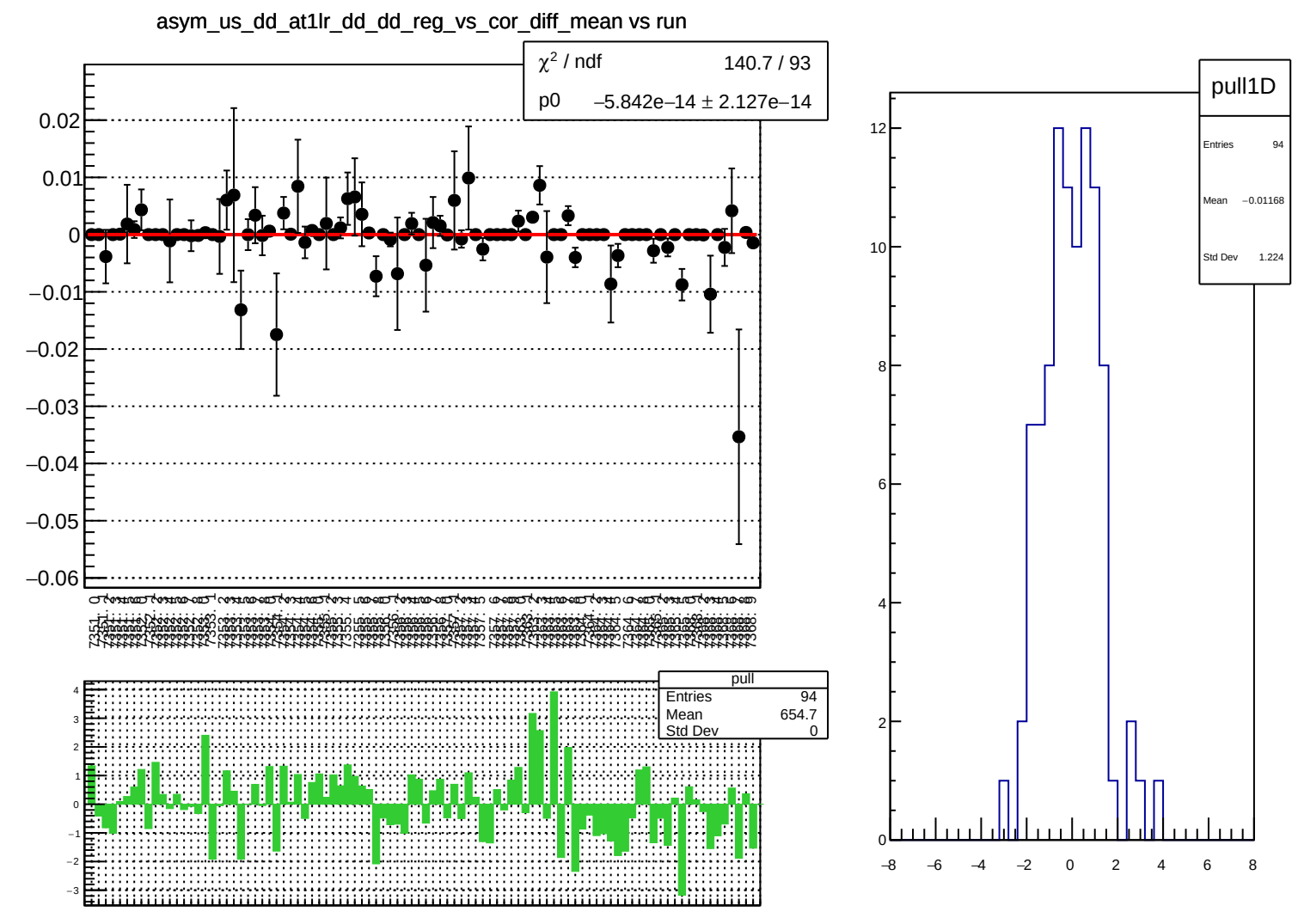

pull1D
Entries 94
Mean 0.002912
Std Dev 1.759
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

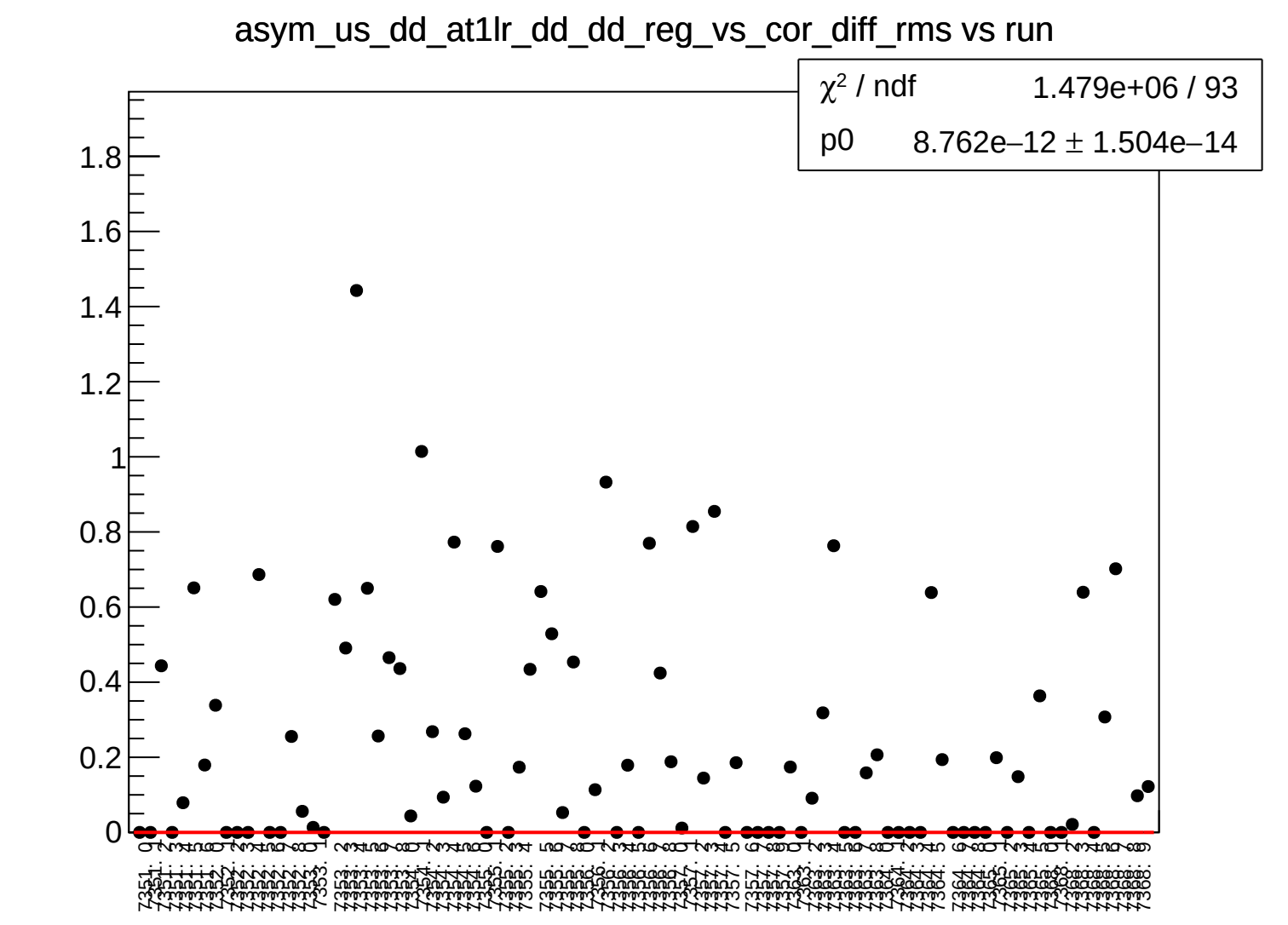

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 4719 / 93
p0 865.9 ± 0.6429
1000
950
900
850
800
750

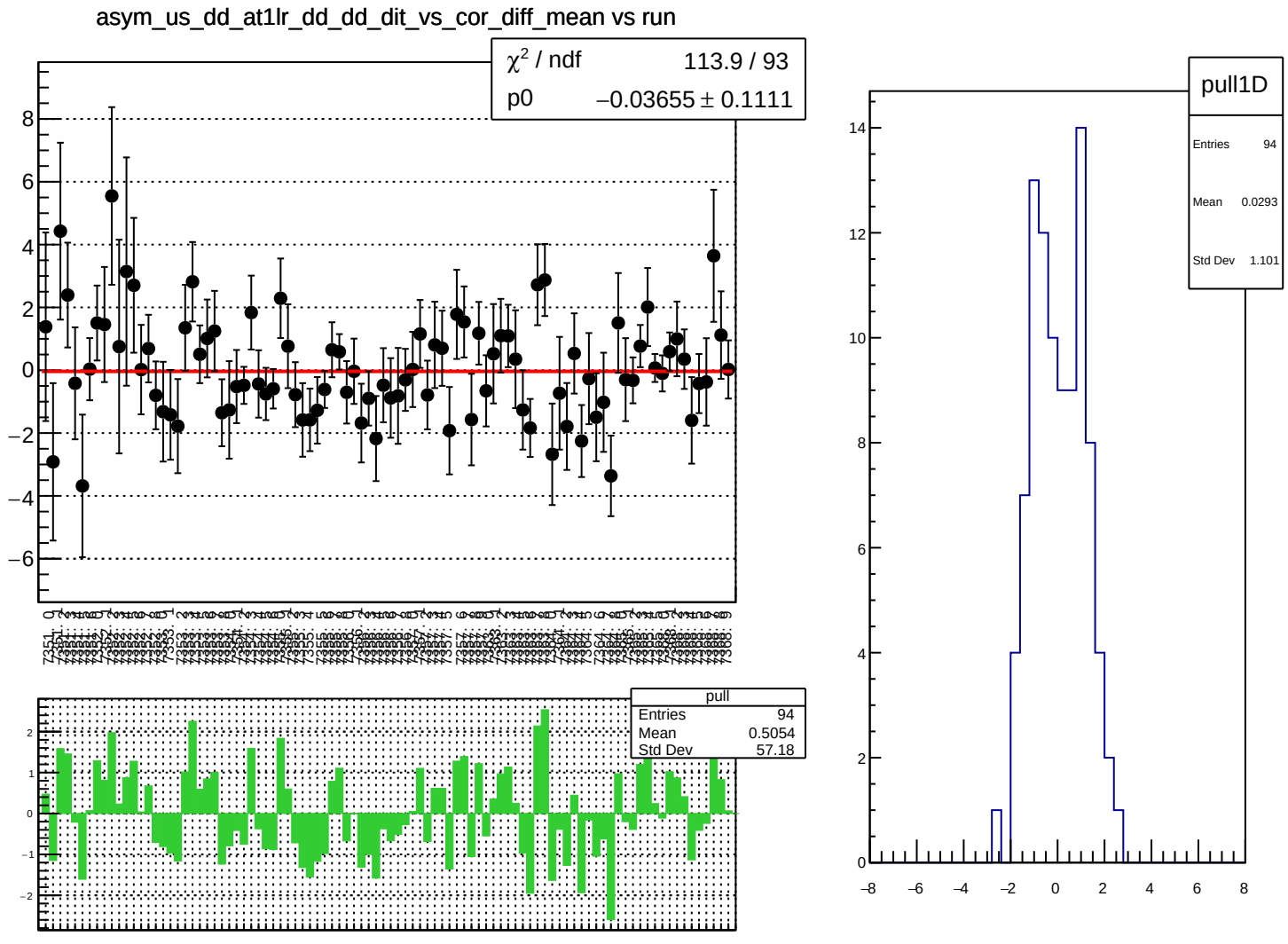

asym_us_dd_at1lr_dd_dd_mean vs run
×10^3
χ² / ndf 144.2 / 93
p0 −414.9 ± 2020
pull
Entries 94
Mean −321
Std Dev 0

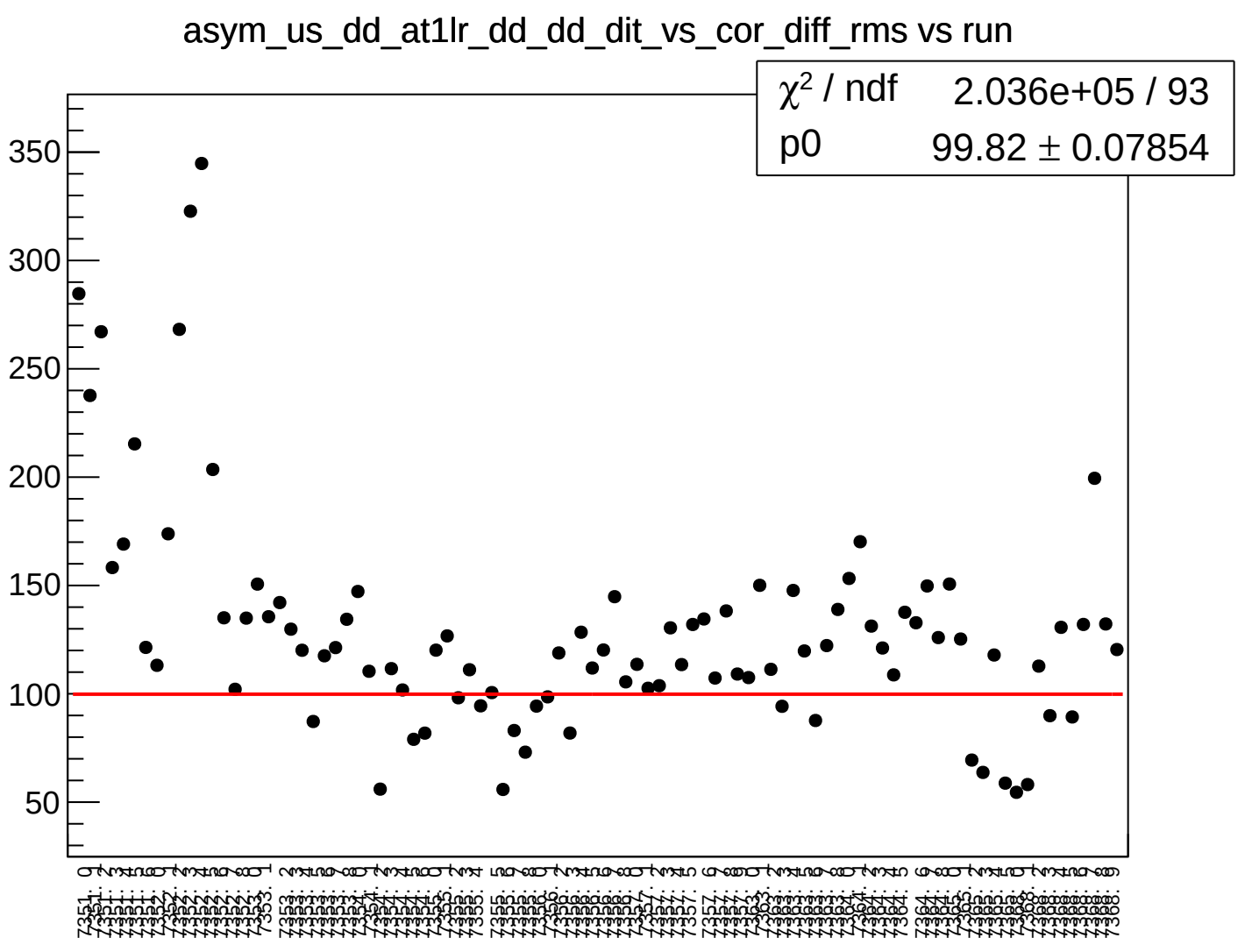

pull1D
Entries 94
Mean −0.01368
Std Dev 1.238

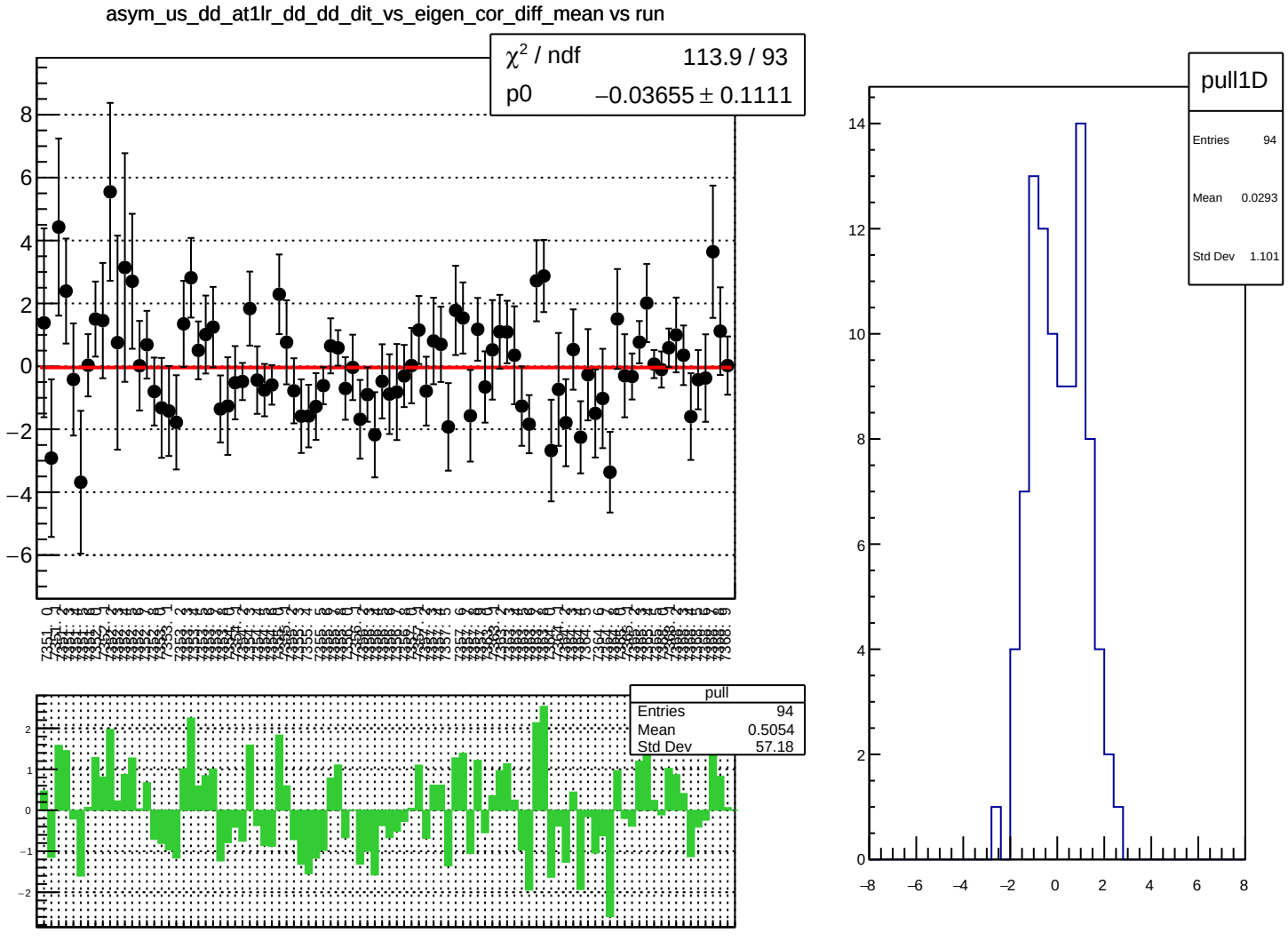

asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 302.8 / 93
p0 1926 ± 1.428
2000
1980
1960
1940
1920
1900
1880
1860
1840

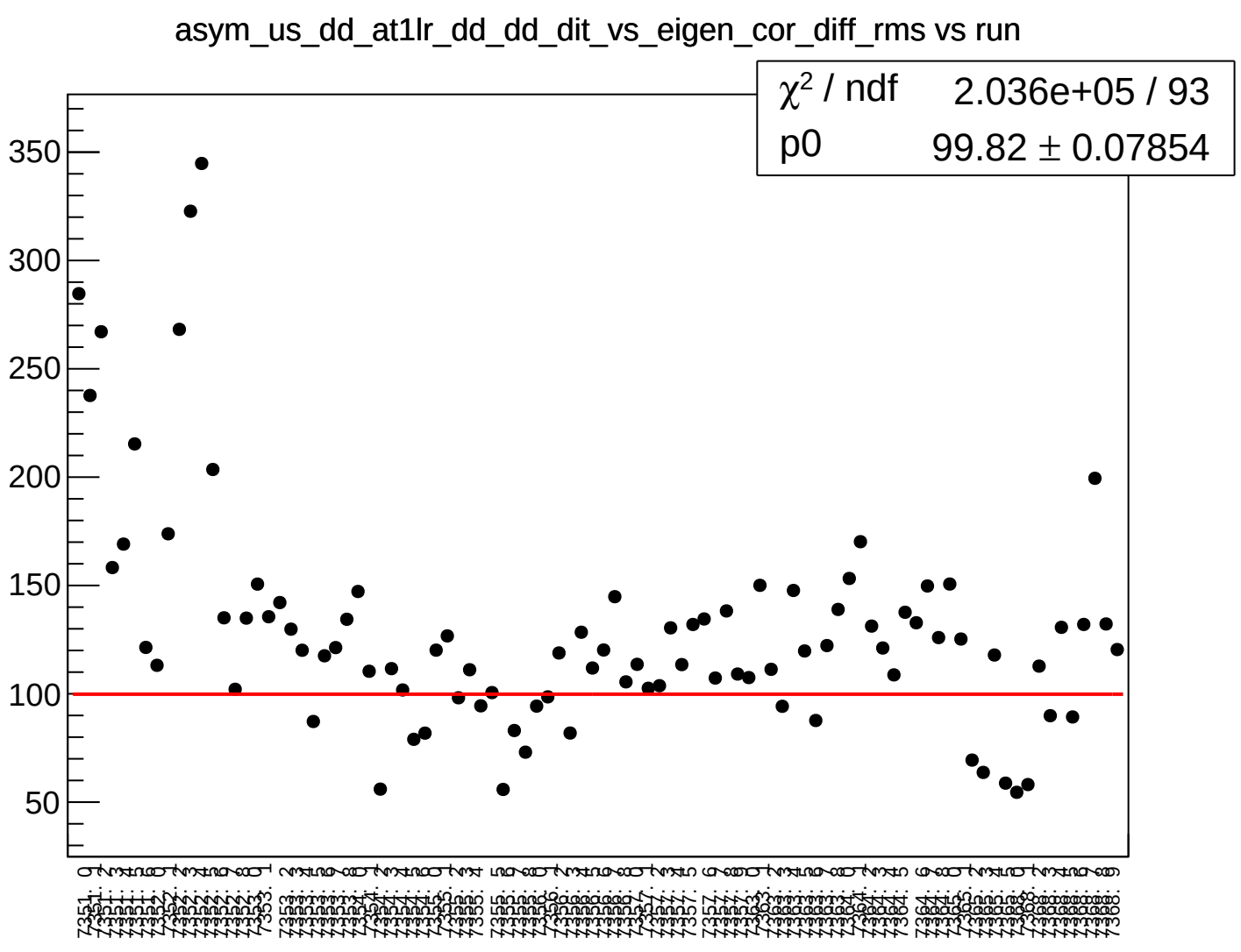

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 140.7 / 93
p0 −5.842e−14 ± 2.127e−14
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
−0.05
−0.06
pull
Entries 94
Mean 654.7
Std Dev 0
pull1D
Entries 94
Mean −0.01168
Std Dev 1.224
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

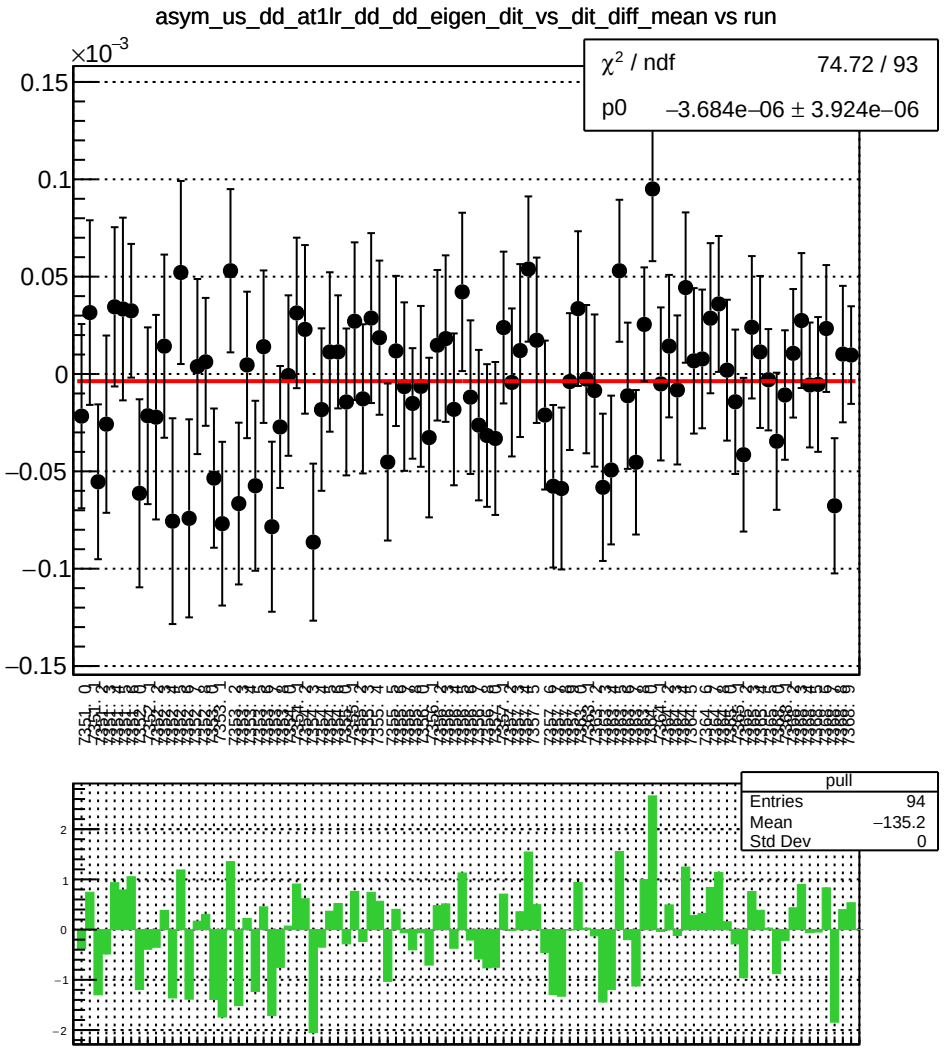

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.479e+06 / 93
p0 8.762e−12 ± 1.504e−14
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

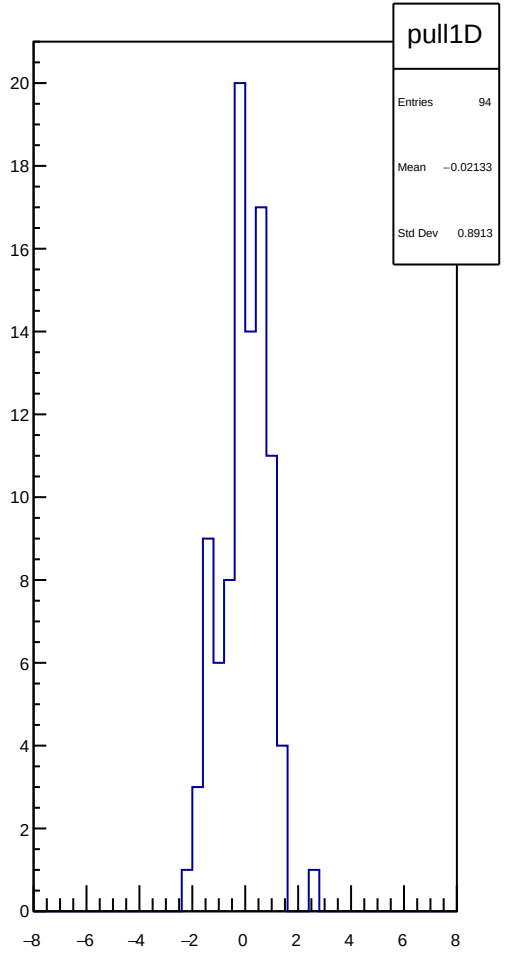

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 113.9 / 93
p0 −0.03655 ± 0.1111
pull
Entries 94
Mean 0.5054
Std Dev 57.18
pull1D
Entries 94
Mean 0.0293
Std Dev 1.101

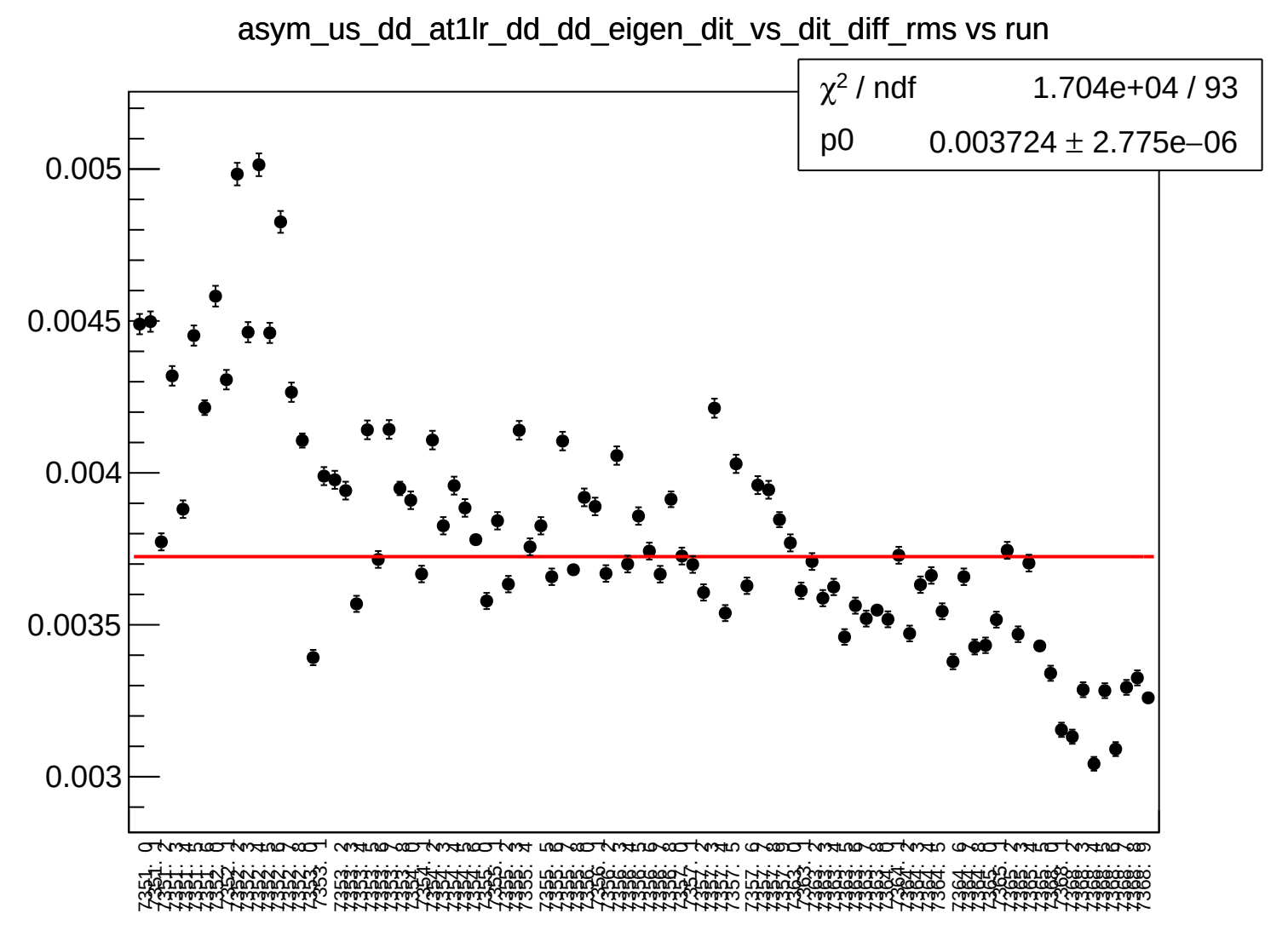

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.036e+05 / 93
p0 99.82 ± 0.07854
350
300
250
200
150
100
50

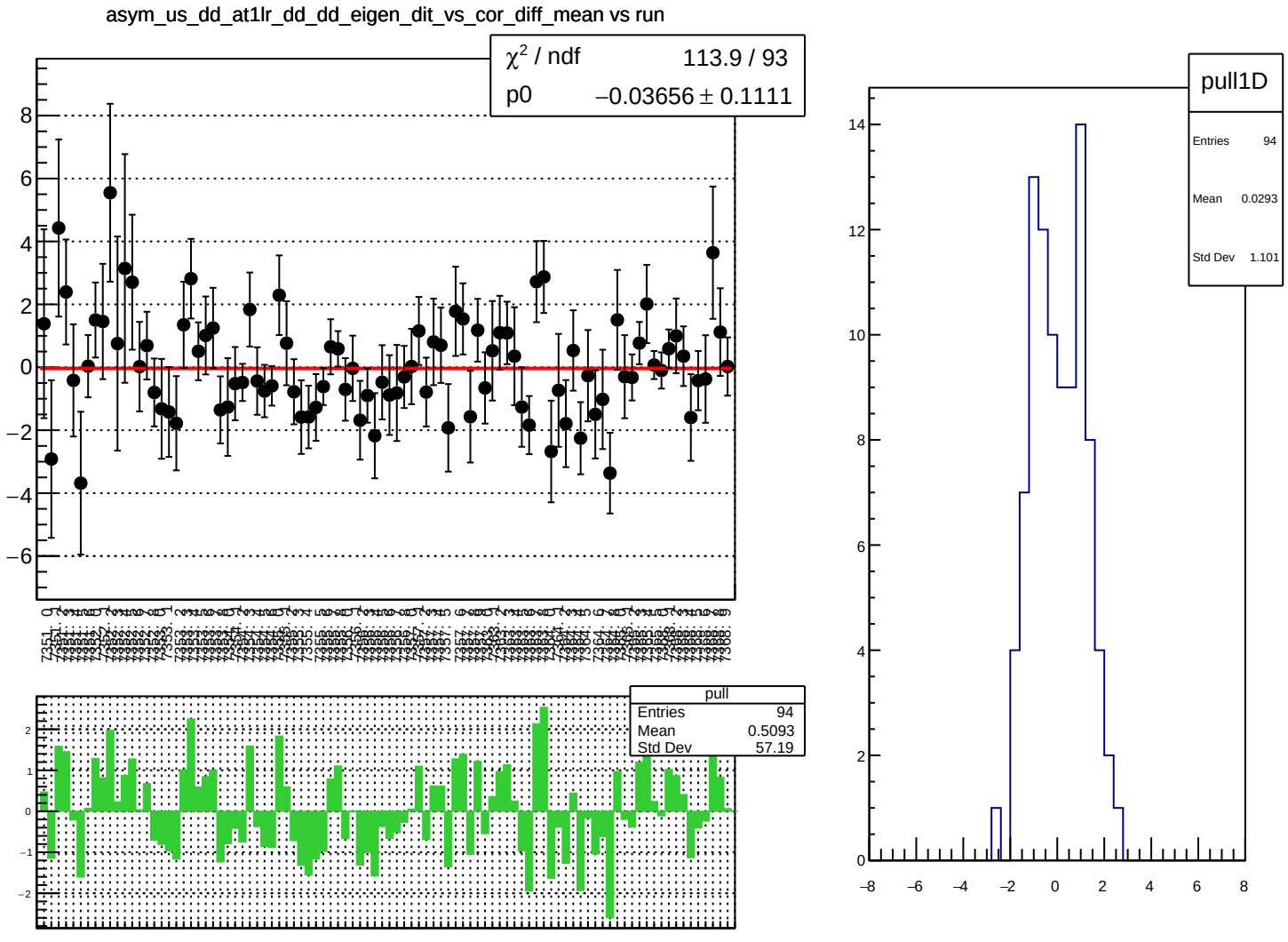

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 113.9 / 93
p0 −0.03655 ± 0.1111
pull
Entries 94
Mean 0.5054
Std Dev 57.18
pull1D
Entries 94
Mean 0.0293
Std Dev 1.101

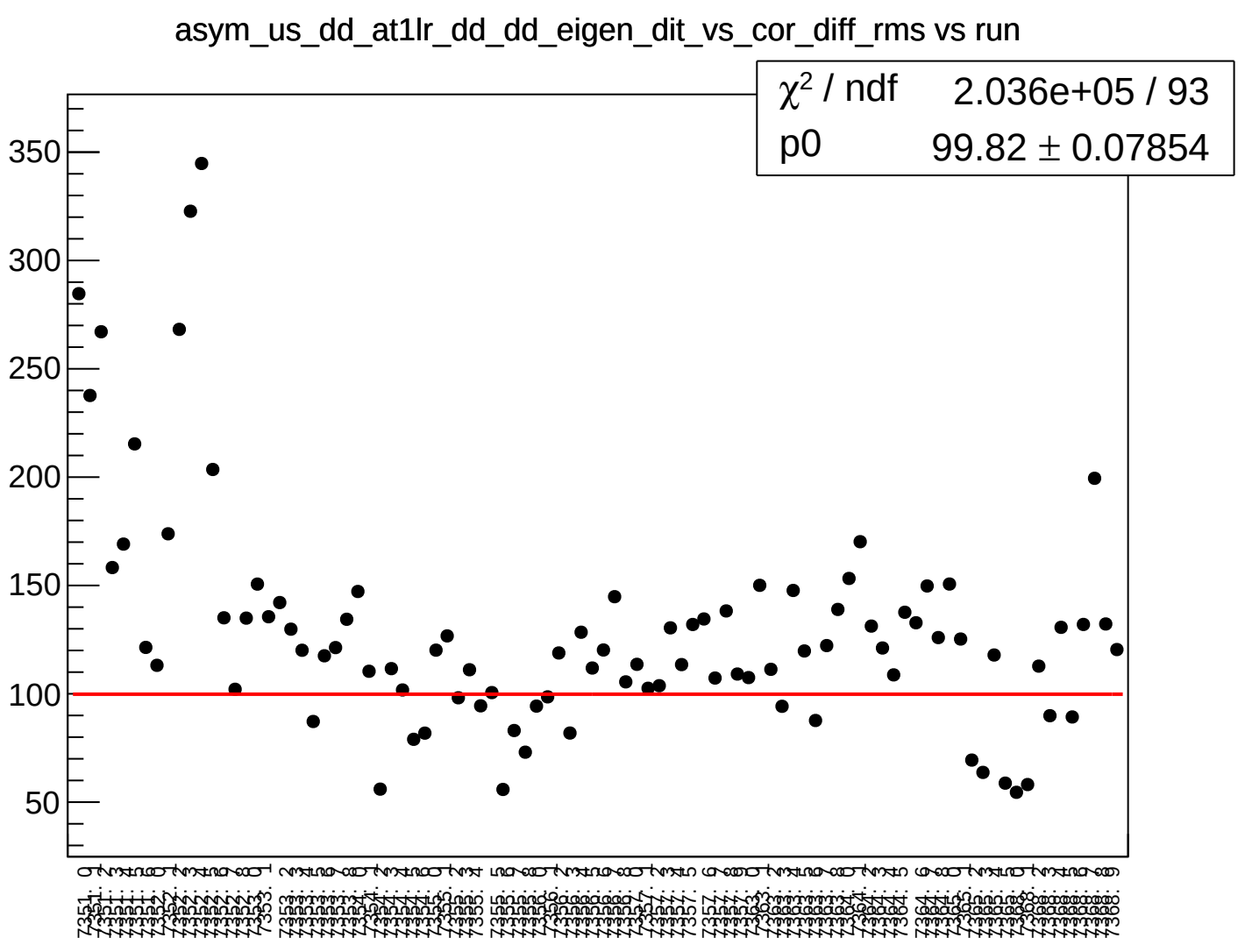

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.036e+05 / 93
p0 99.82 ± 0.07854
350
300
250
200
150
100
50

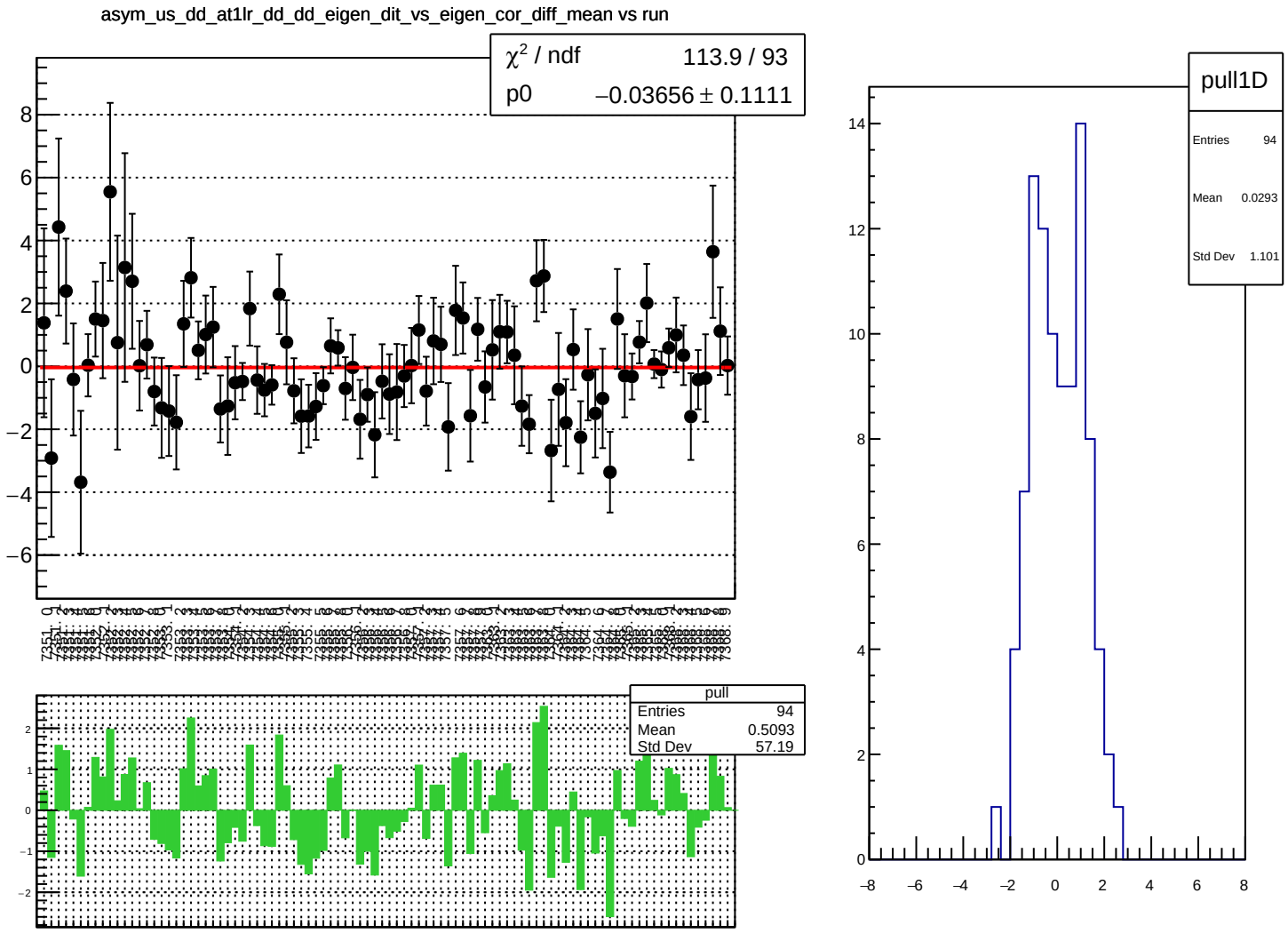

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 74.72 / 93
p0 −3.684e−06 ± 3.924e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 94
Mean −135.2
Std Dev 0
2
1
0
−1
−2

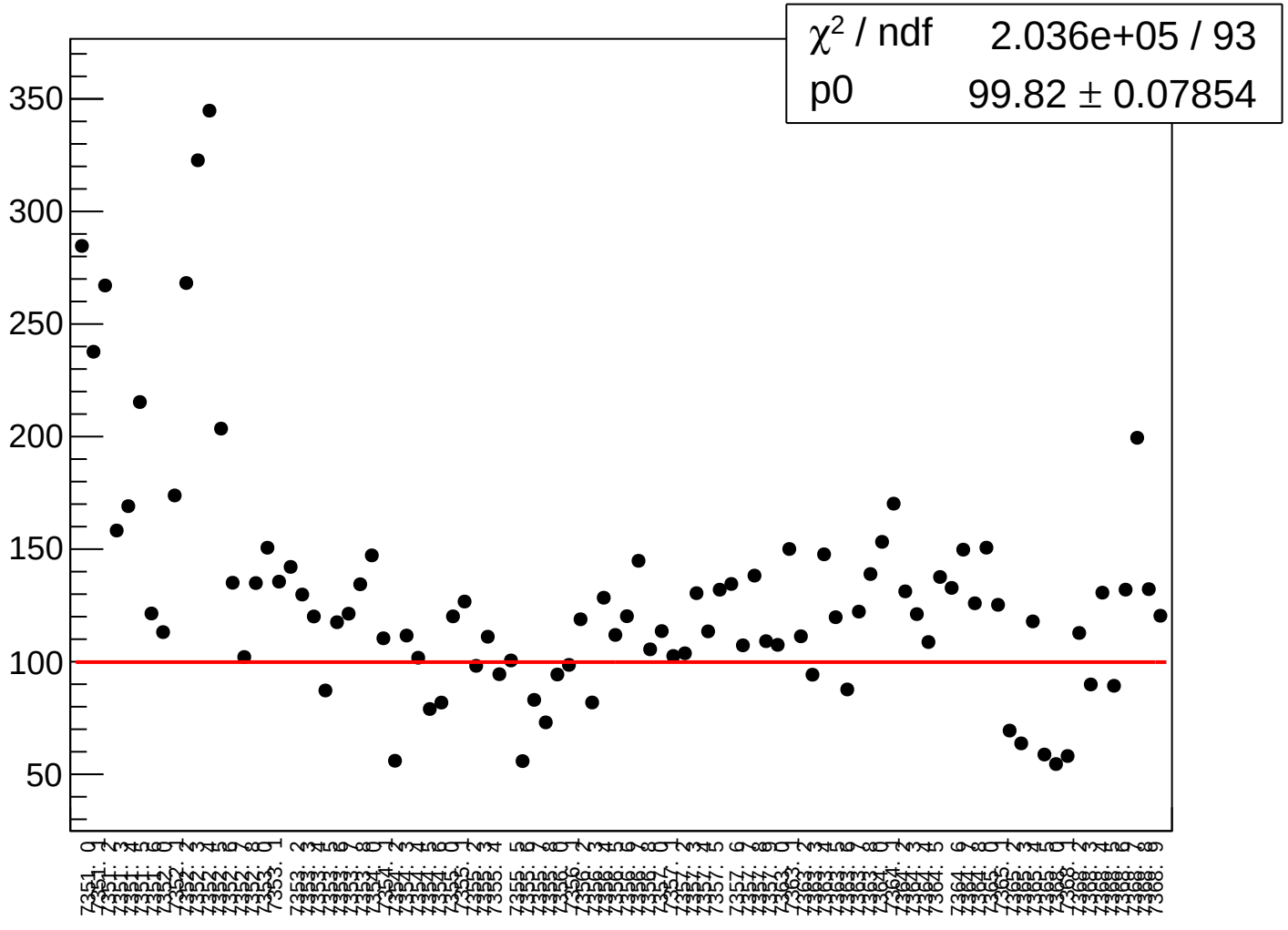

pull1D
Entries 94
Mean −0.02133
Std Dev 0.8913
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

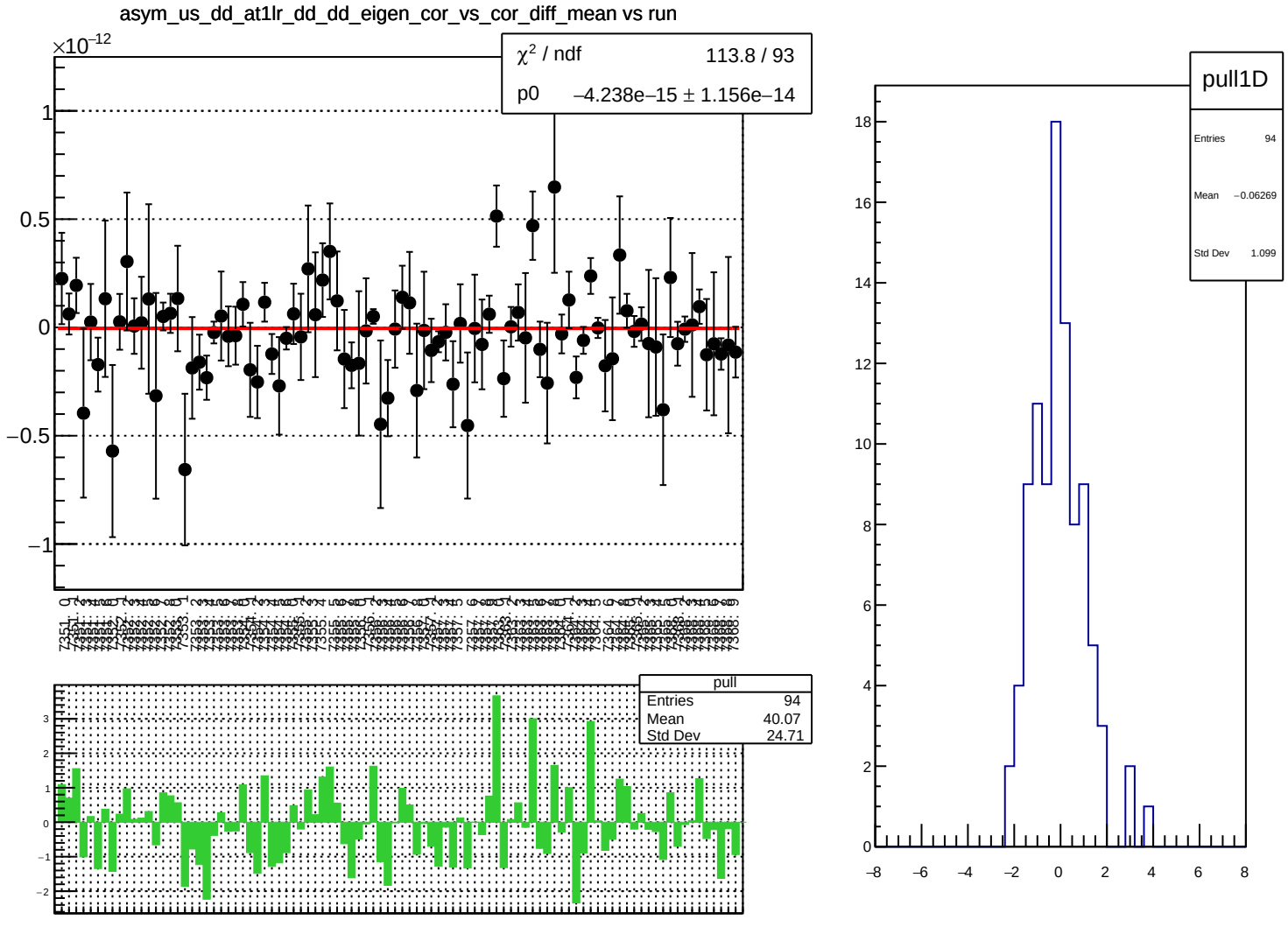

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.704e+04 / 93
p0 0.003724 ± 2.775e−06
0.005
0.0045
0.004
0.0035
0.003

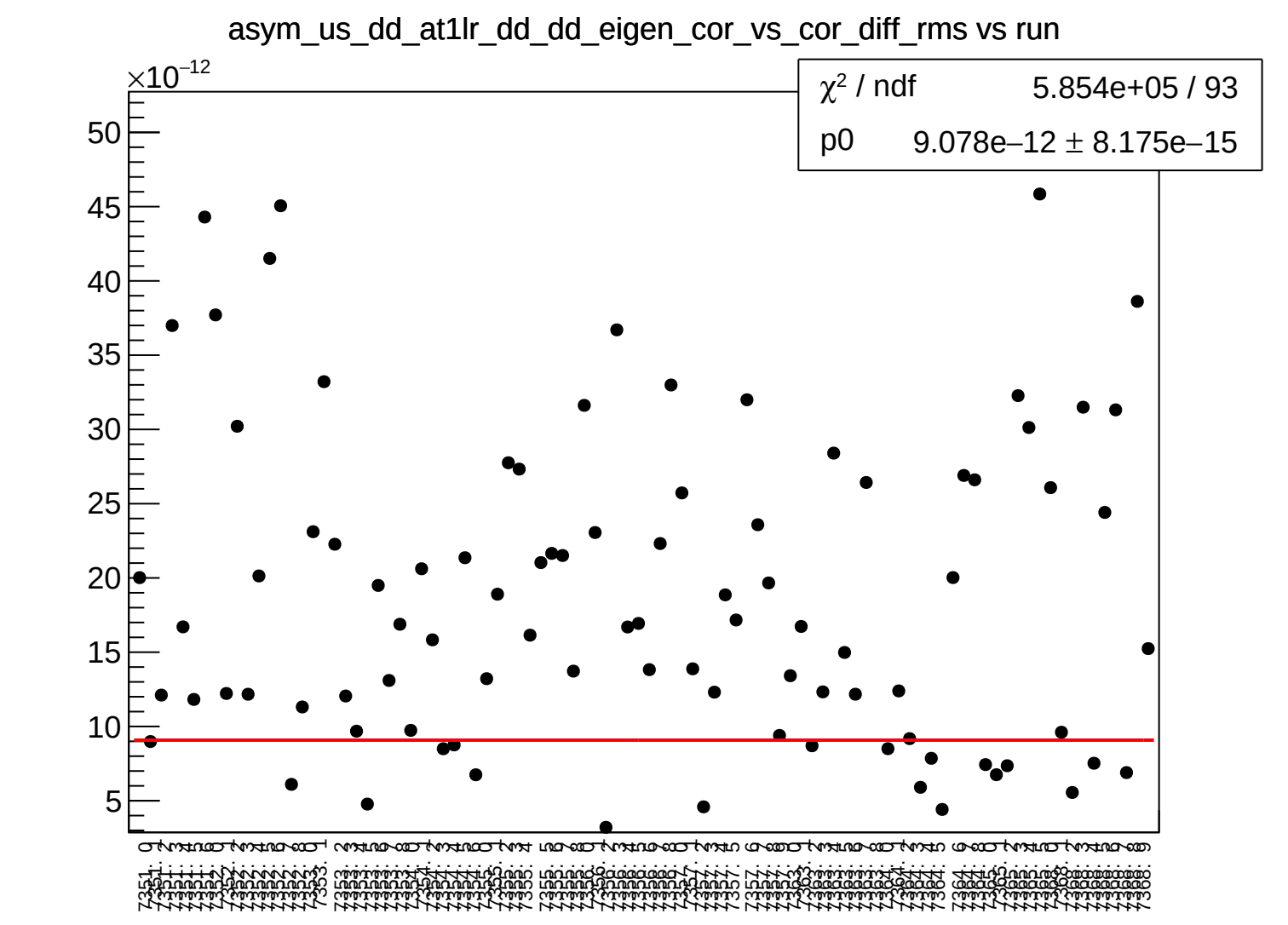

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 113.9 / 93
p0 −0.03656 ± 0.1111
pull
Entries 94
Mean 0.5093
Std Dev 57.19
pull1D
Entries 94
Mean 0.0293
Std Dev 1.101

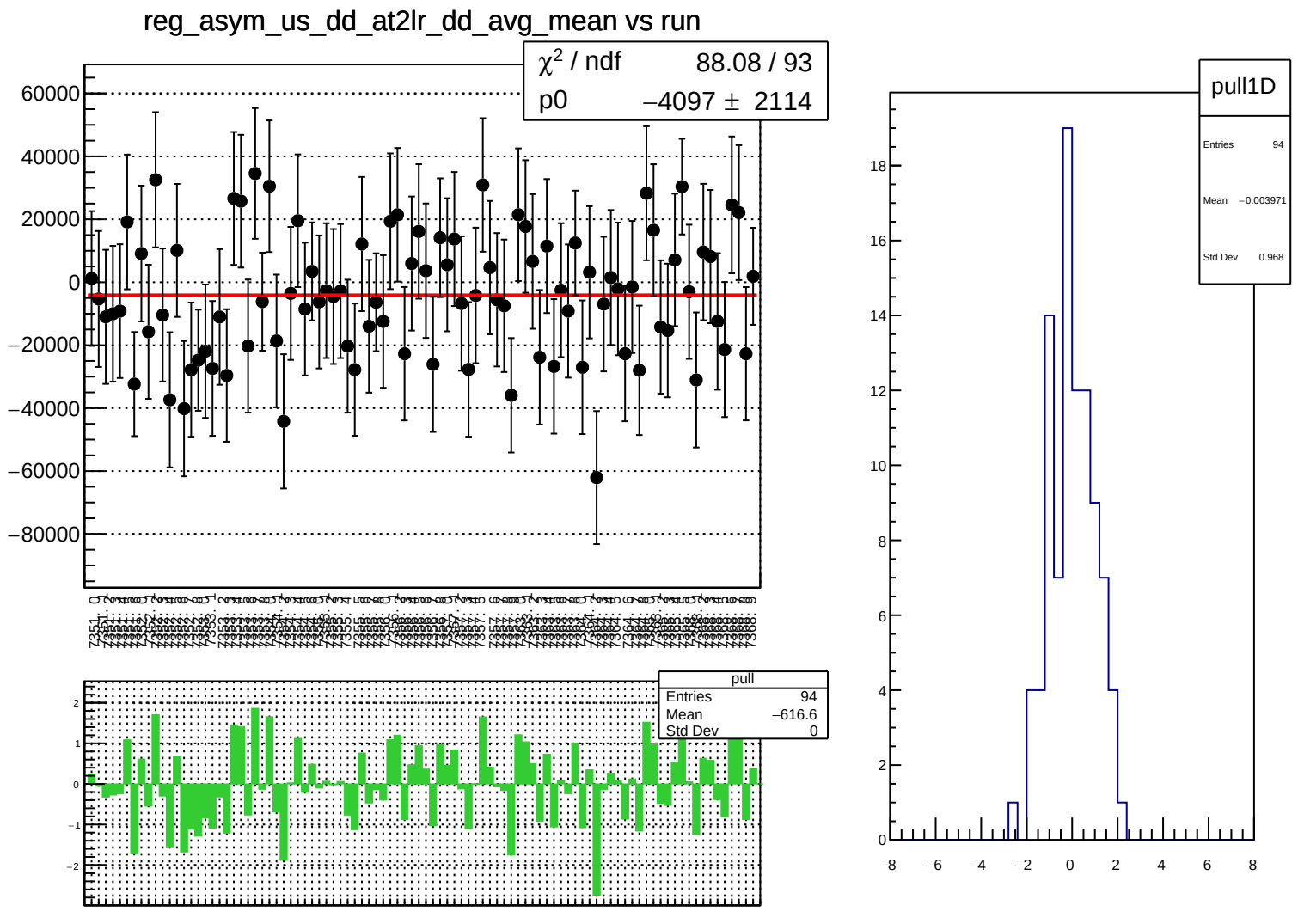

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.036e+05 / 93
p0 99.82 ± 0.07854
350
300
250
200
150
100
50

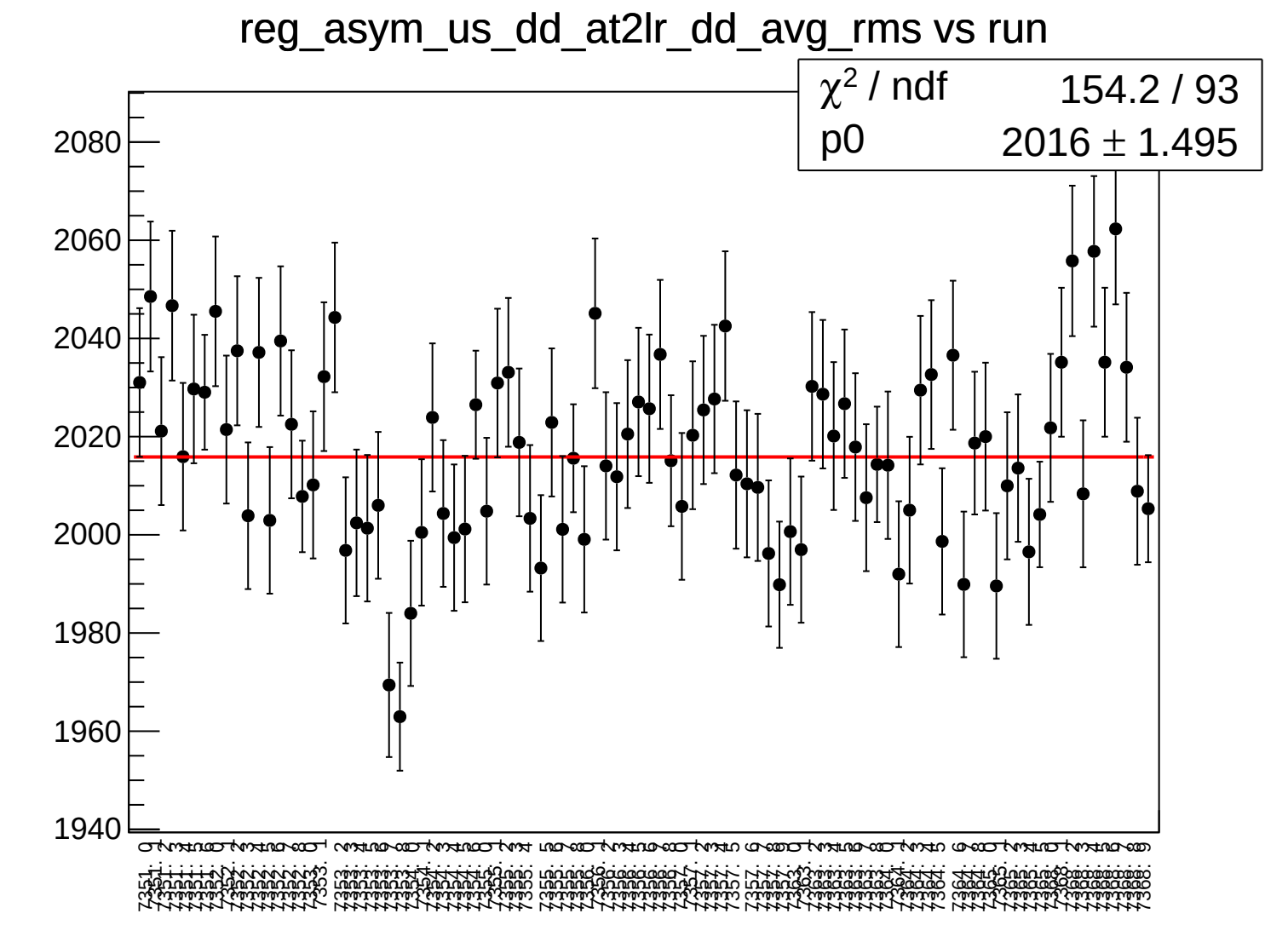

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 113.9 / 93
p0 −0.03656 ± 0.1111
pull
Entries 94
Mean 0.5093
Std Dev 57.19
pull1D
Entries 94
Mean 0.0293
Std Dev 1.101

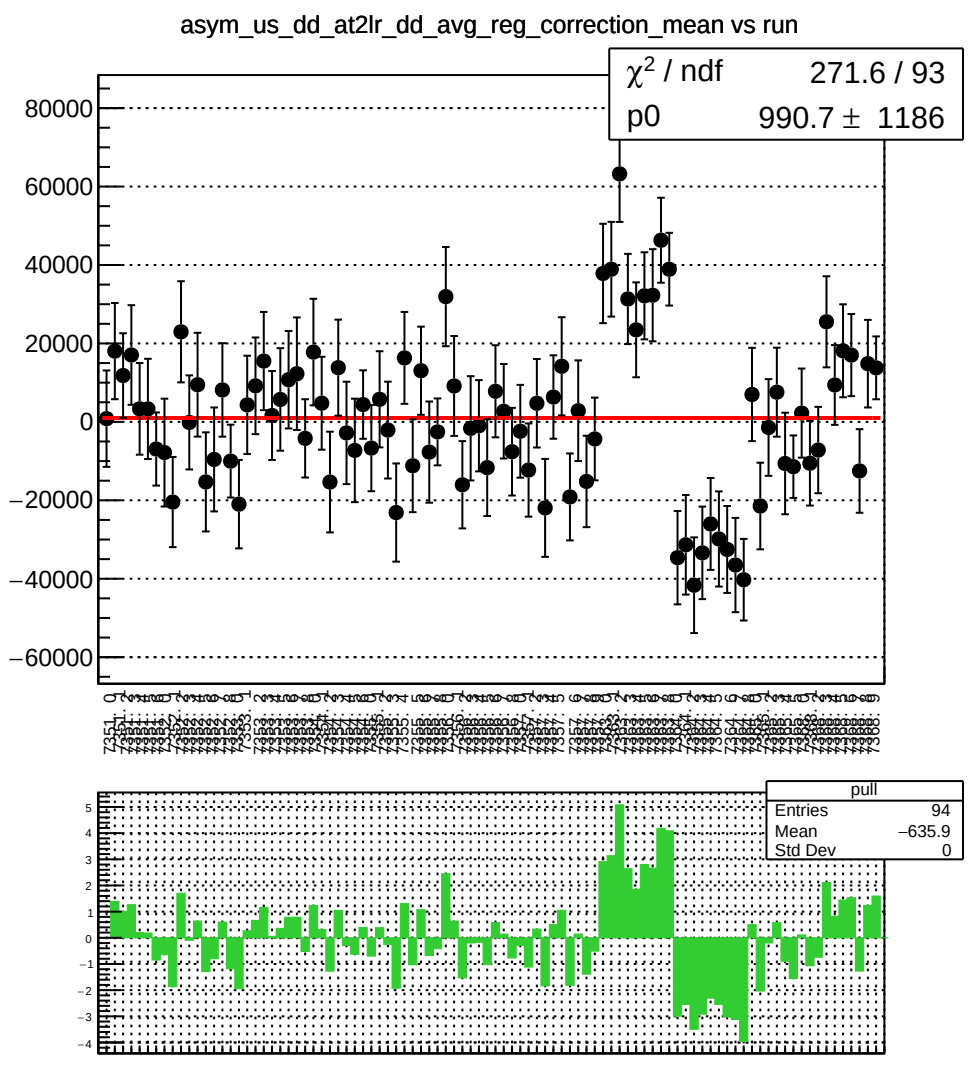

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.036e+05 / 93
p0 99.82 ± 0.07854
350
300
250
200
150
100
50

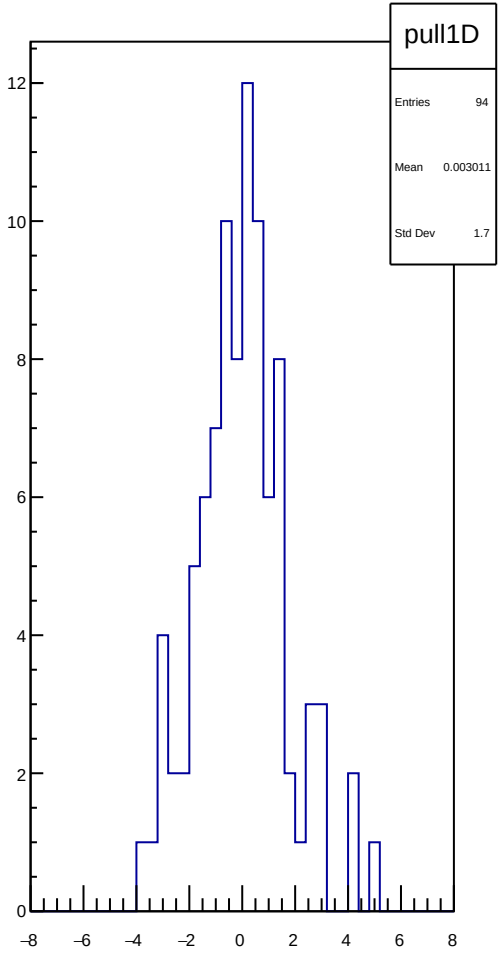

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 113.8 / 93
p0 −4.238e−15 ± 1.156e−14
pull
Entries 94
Mean 40.07
Std Dev 24.71
pull1D
Entries 94
Mean −0.06269
Std Dev 1.099

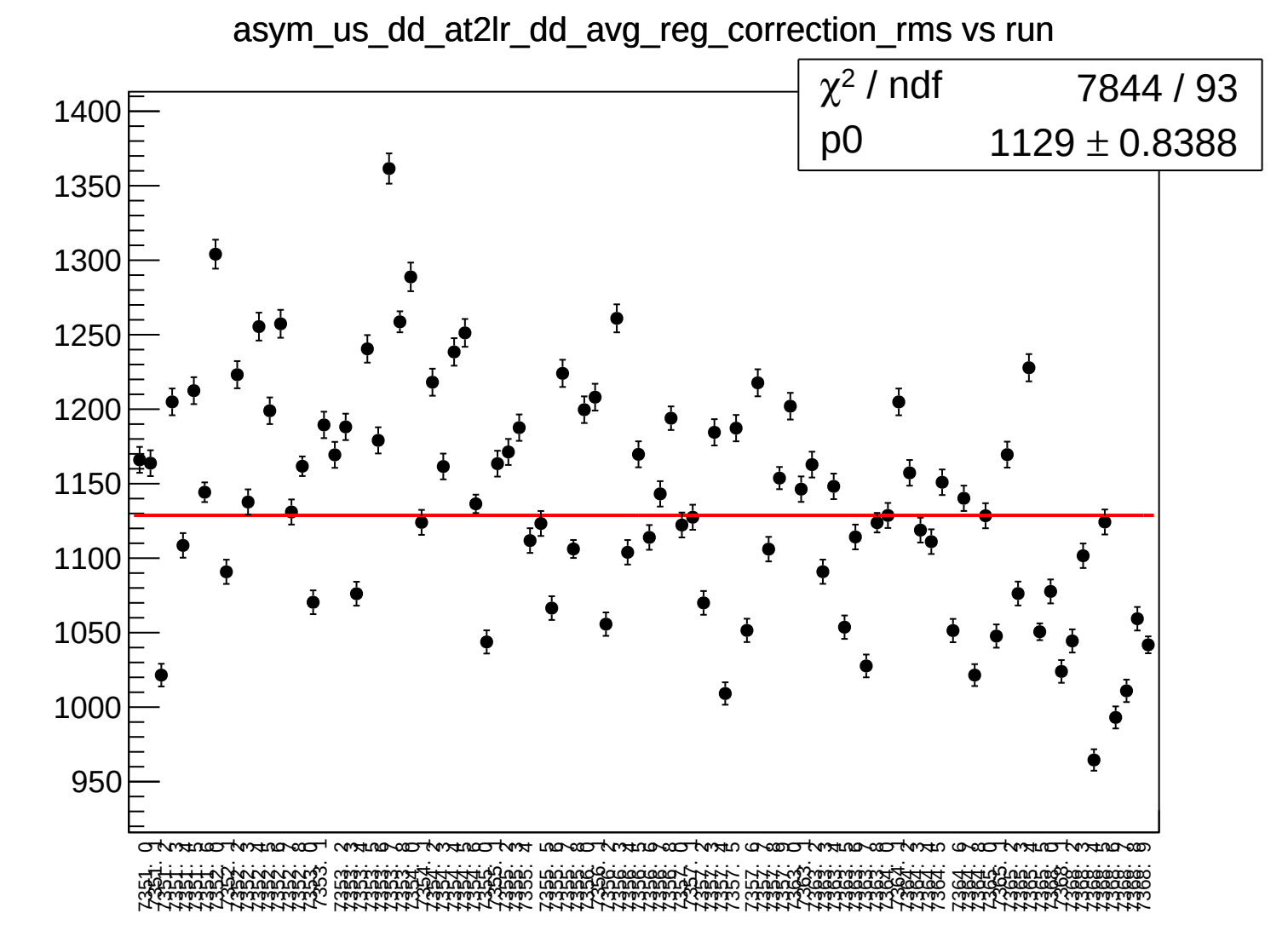

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.854e+05 / 93
p0 9.078e−12 ± 8.175e−15
50
45
40
35
30
25
20
15
10
5

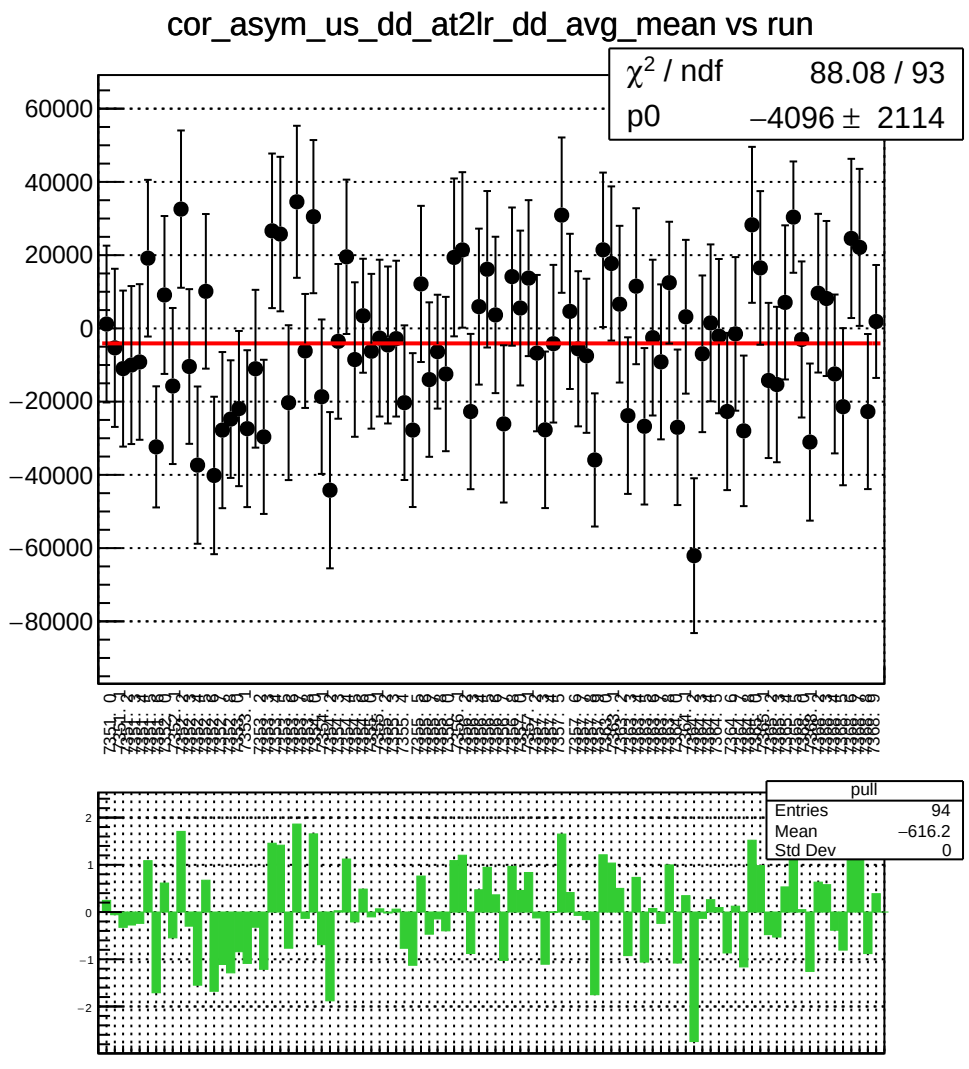

reg_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 88.08 / 93
p0 −4097 ± 2114
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean −616.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.003971
Std Dev 0.968
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

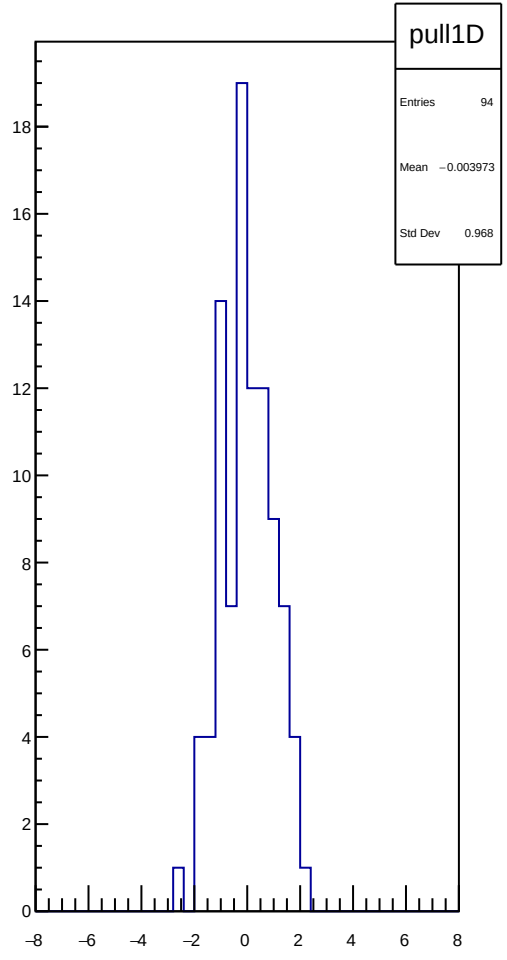

reg_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 154.2 / 93
p0 2016 ± 1.495
2080
2060
2040
2020
2000
1980
1960
1940

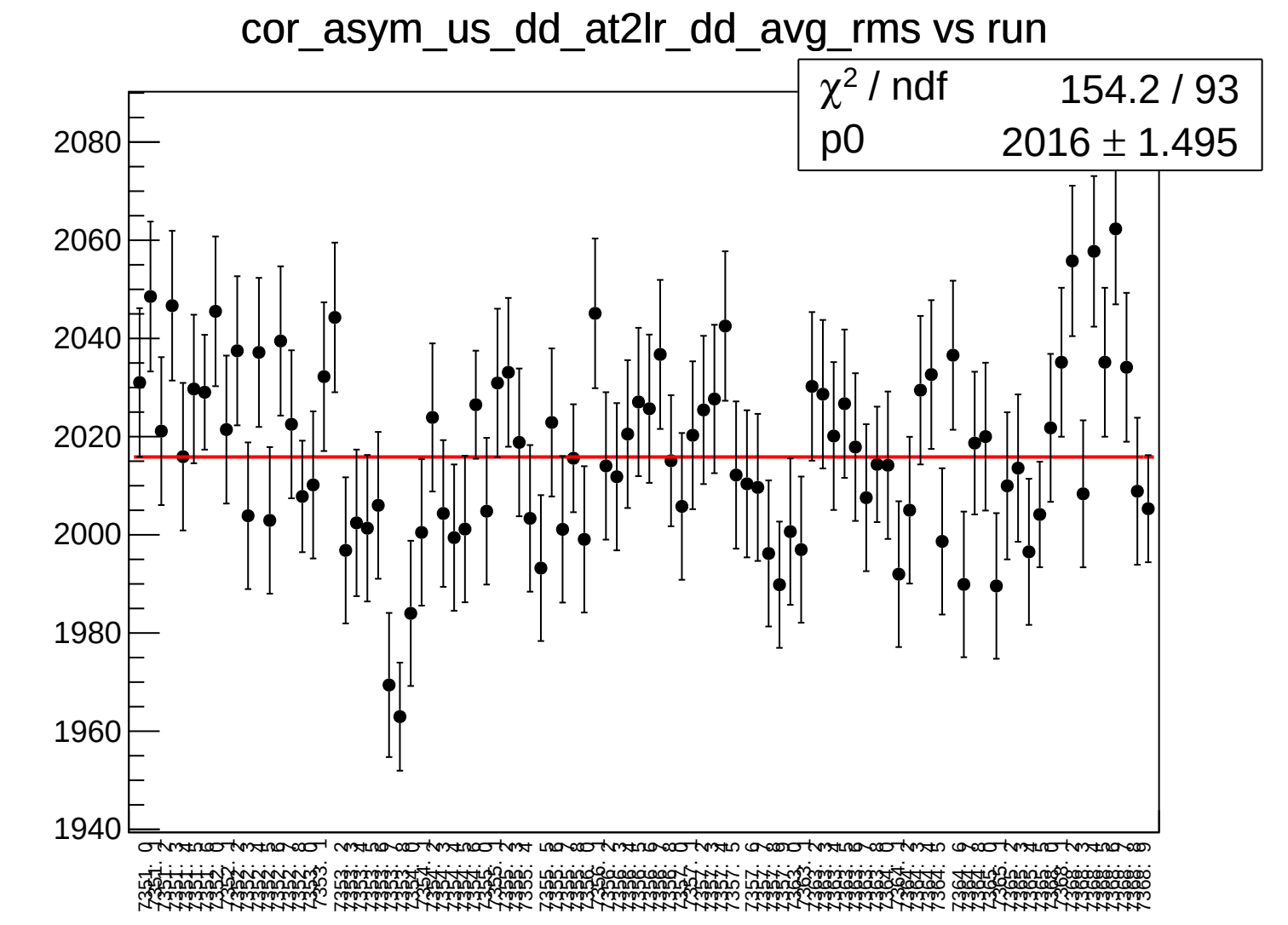

asym_us_dd_at2lr_dd_avg_reg_correction_mean vs run
χ² / ndf 271.6 / 93
p0 990.7 ± 1186
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −635.9
Std Dev 0
5
4
3
2
1
0
−1
−2
−3
−4

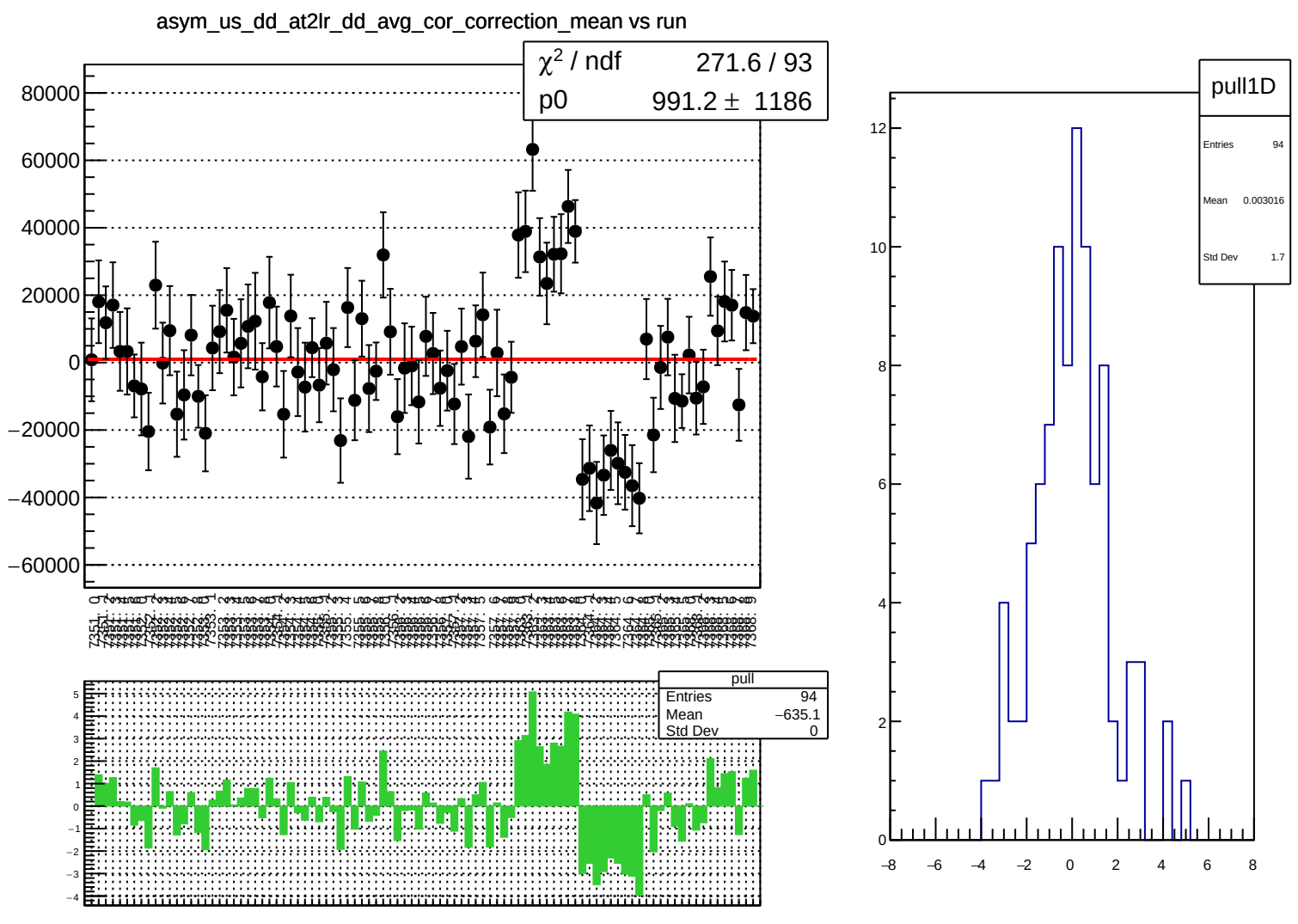

pull1D
Entries 94
Mean 0.003011
Std Dev 1.7
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

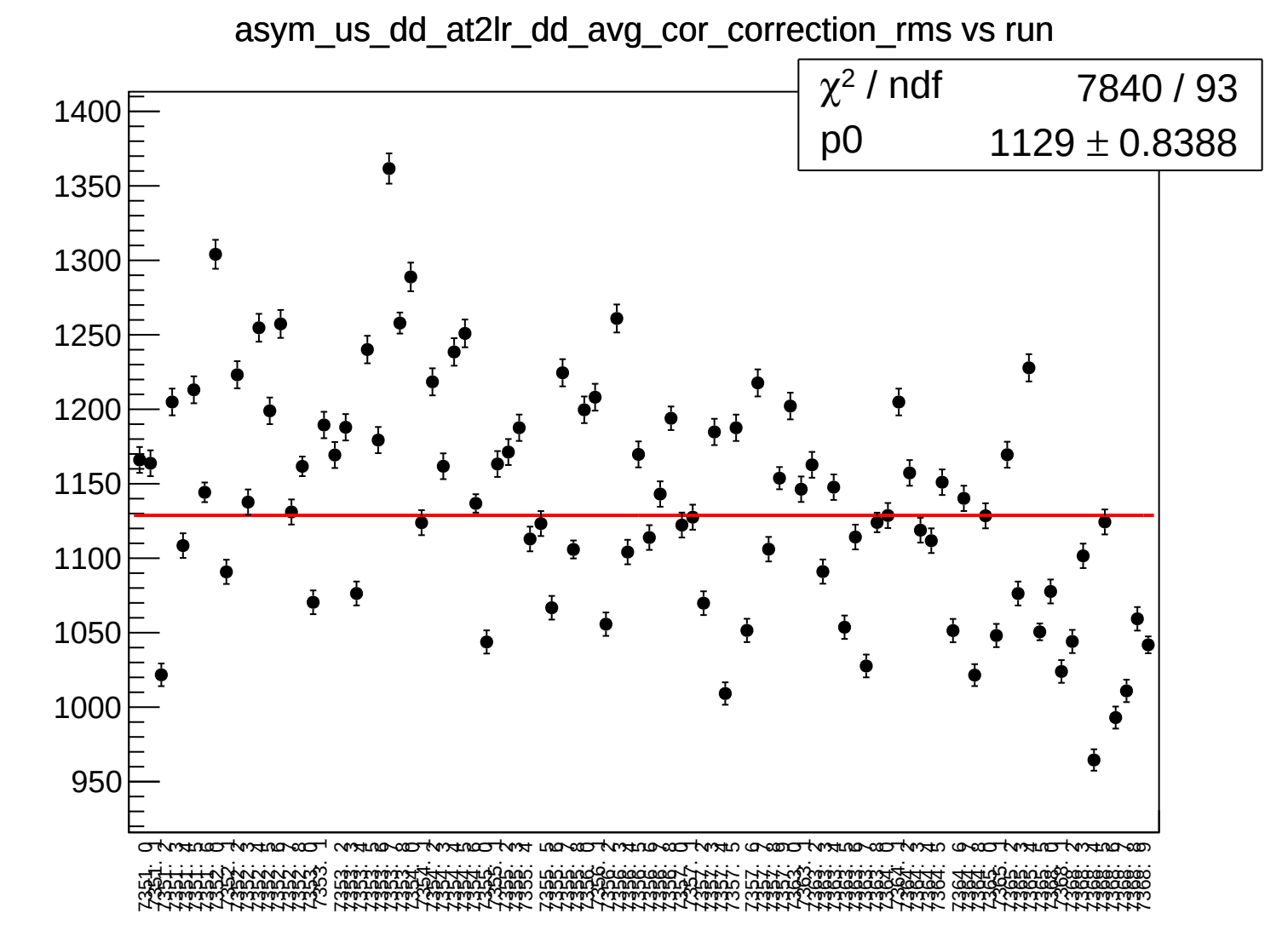

asym_us_dd_at2lr_dd_avg_reg_correction_rms vs run
χ² / ndf 7844 / 93
p0 1129 ± 0.8388
1400
1350
1300
1250
1200
1150
1100
1050
1000
950

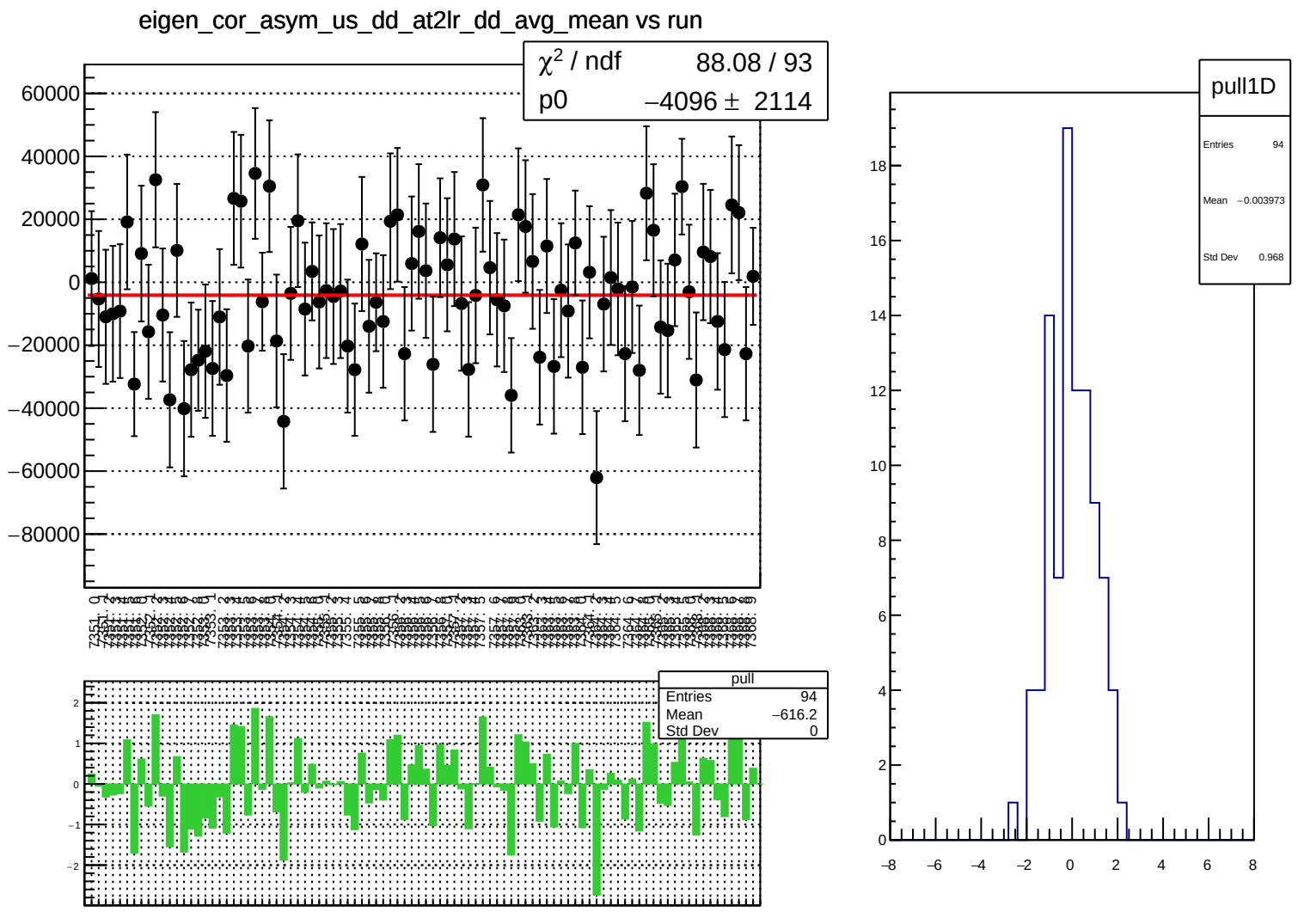

cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 88.08 / 93
p0 −4096 ± 2114
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean −616.2
Std Dev 0
2
1
0
−1
−2

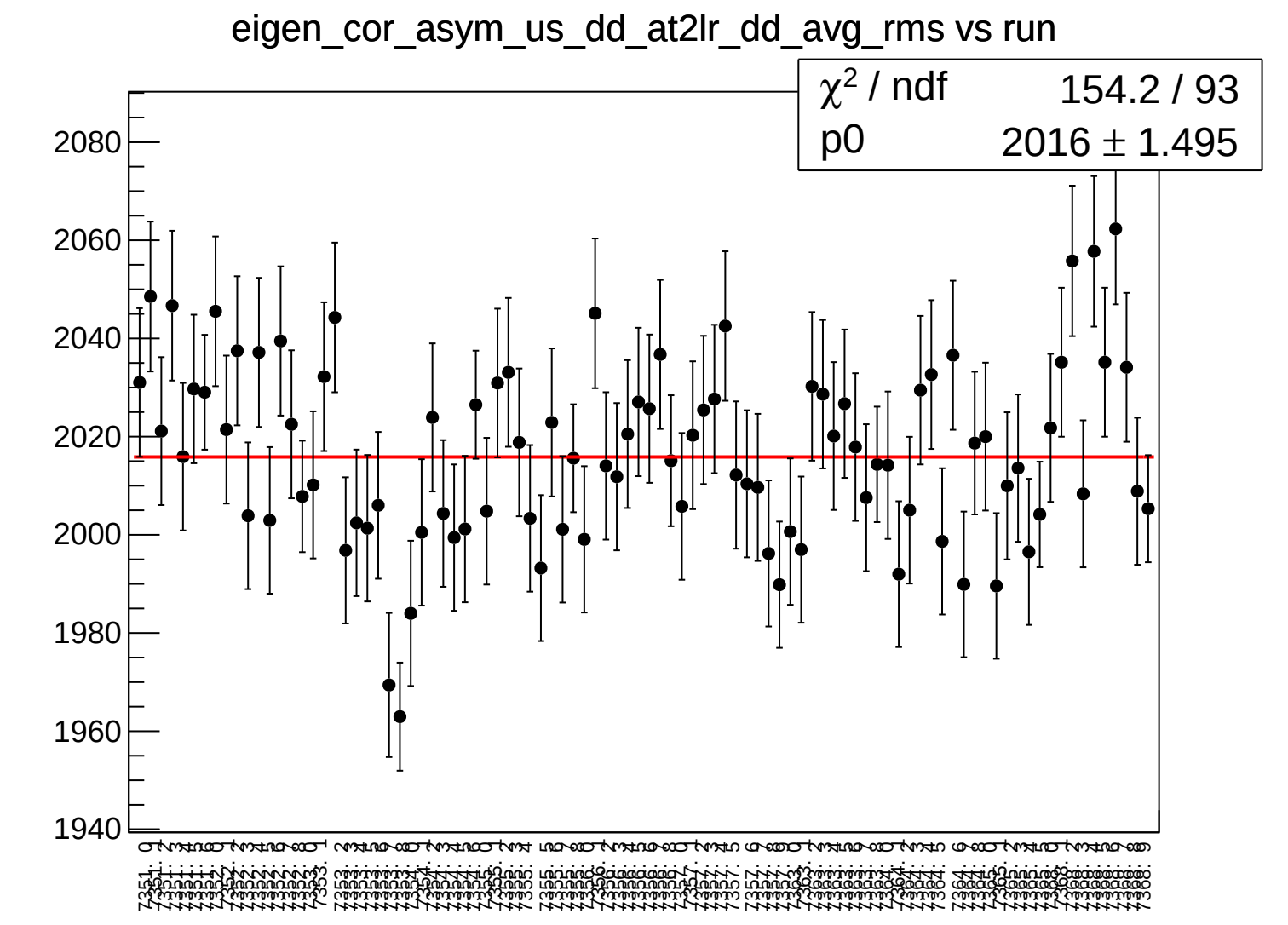

pull1D
Entries 94
Mean −0.003973
Std Dev 0.968
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

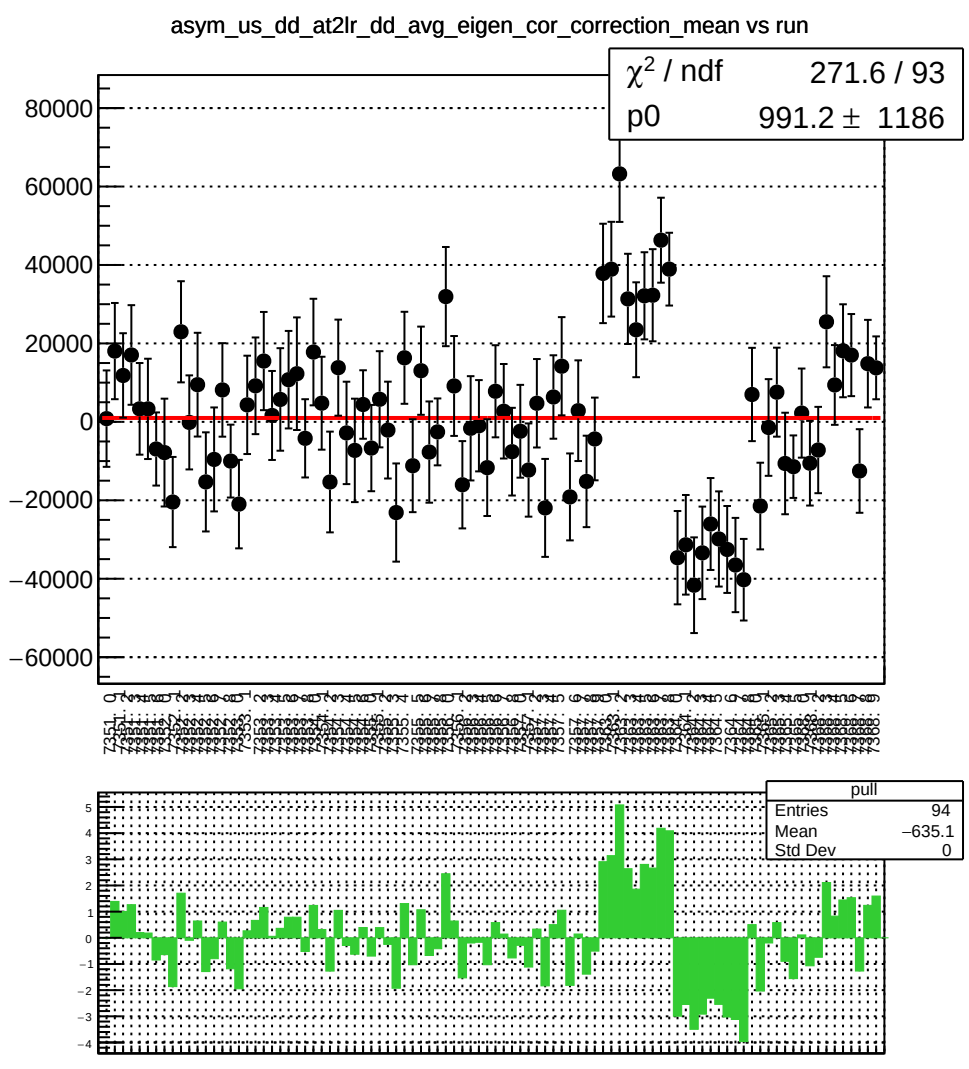

cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ^2 / ndf 154.2 / 93
p0 2016 ± 1.495
2080
2060
2040
2020
2000
1980
1960
1940

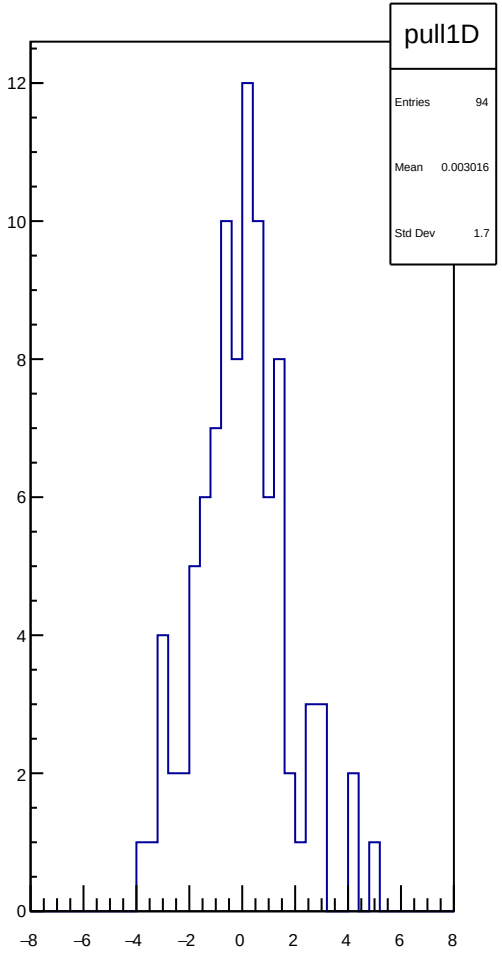

asym_us_dd_at2lr_dd_avg_cor_correction_mean vs run
χ² / ndf 271.6 / 93
p0 991.2 ± 1186
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −635.1
Std Dev 0
5
4
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 94
Mean 0.003016
Std Dev 1.7
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

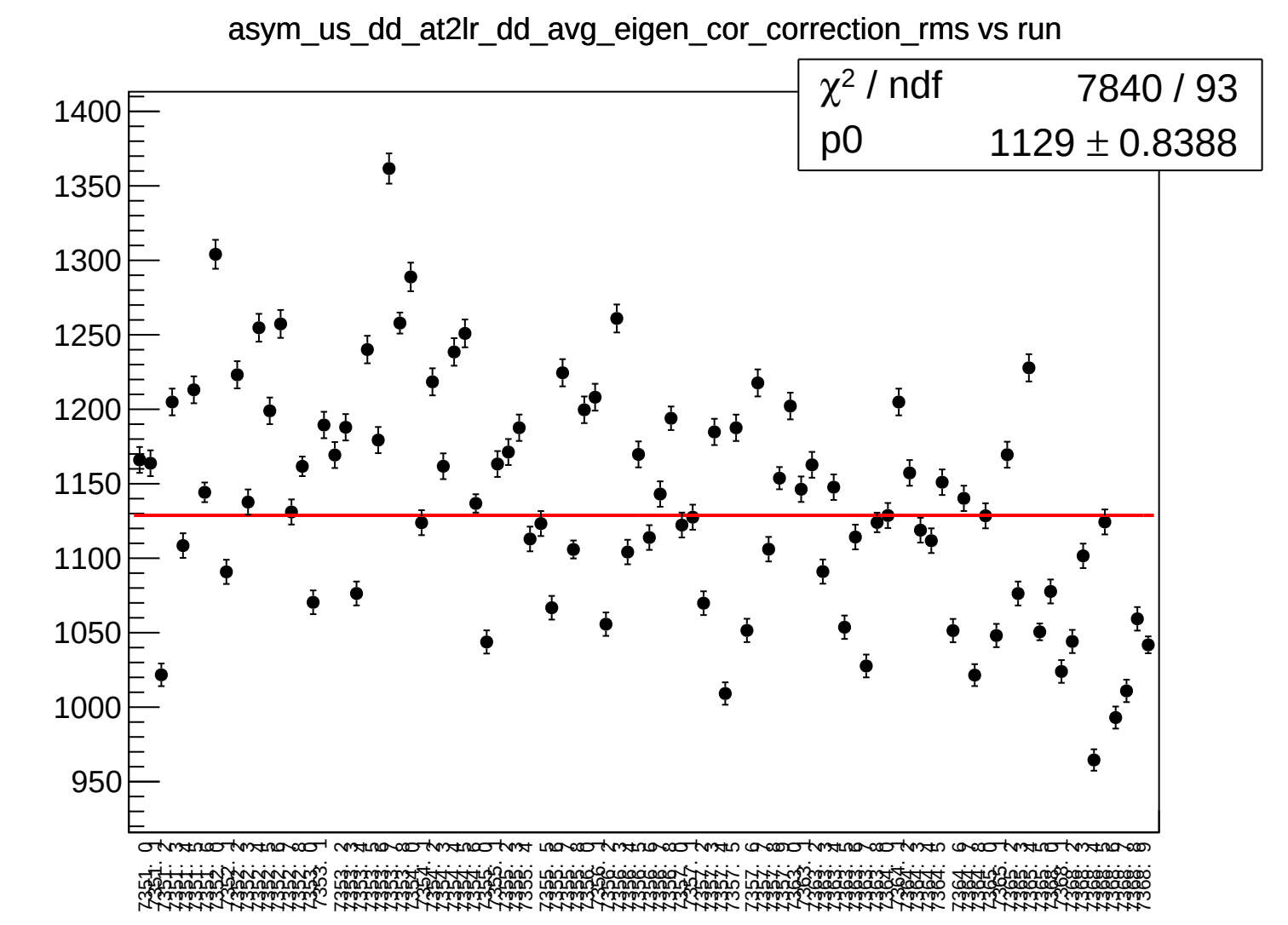

asym_us_dd_at2lr_dd_avg_cor_correction_rms vs run
χ² / ndf 7840 / 93
p0 1129 ± 0.8388
1400
1350
1300
1250
1200
1150
1100
1050
1000
950

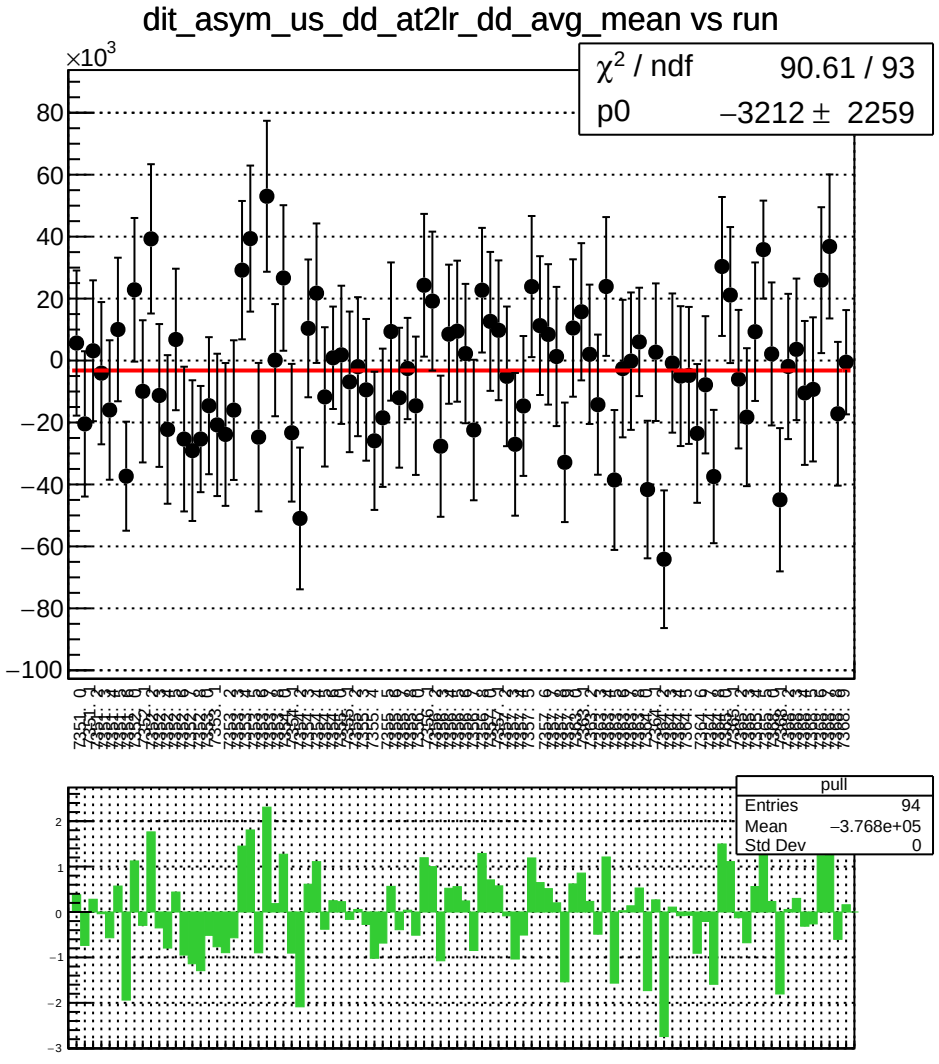

eigen_cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 88.08 / 93
p0 −4096 ± 2114
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean −616.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.003973
Std Dev 0.968
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

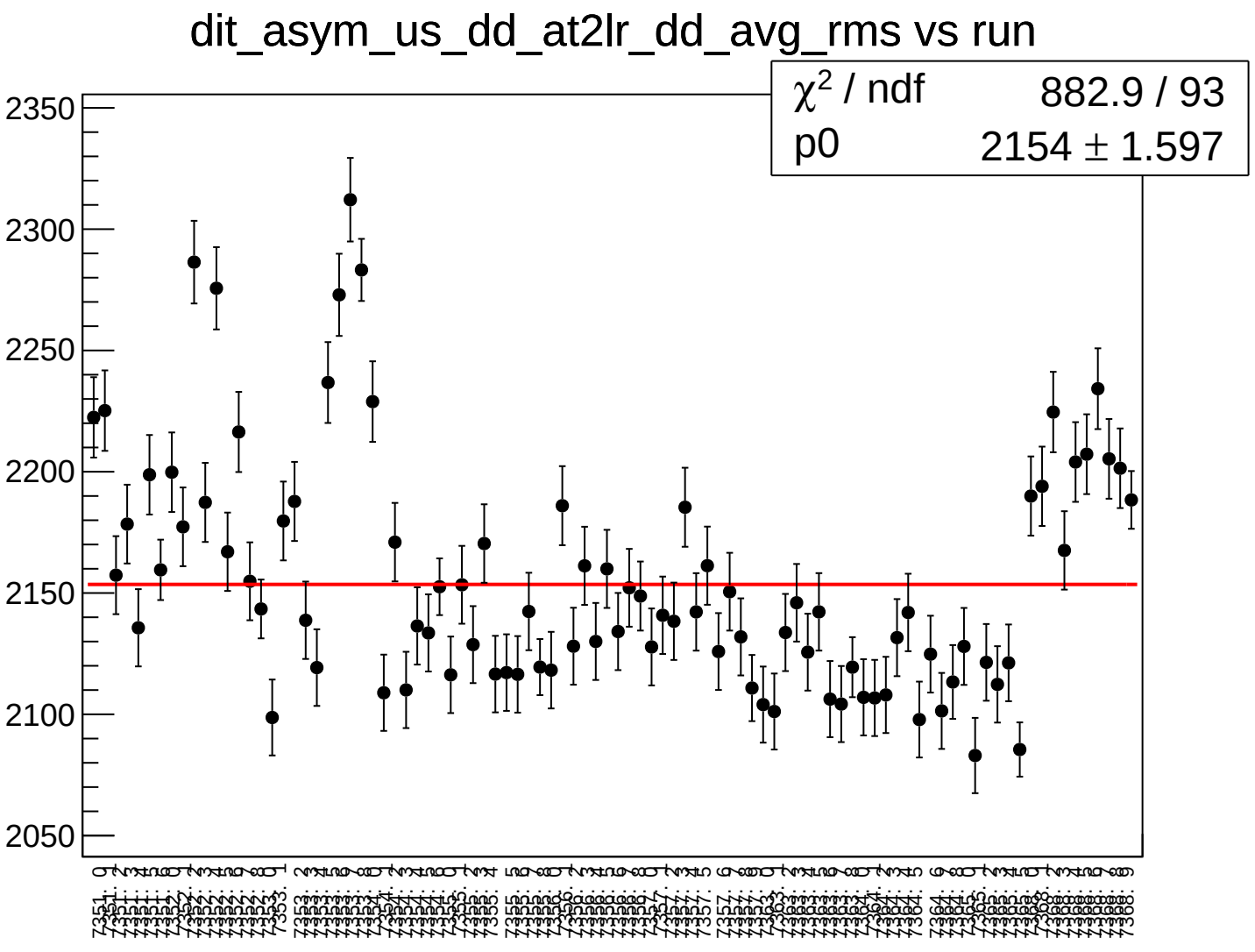

eigen_cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 154.2 / 93
p0 2016 ± 1.495
2080
2060
2040
2020
2000
1980
1960
1940

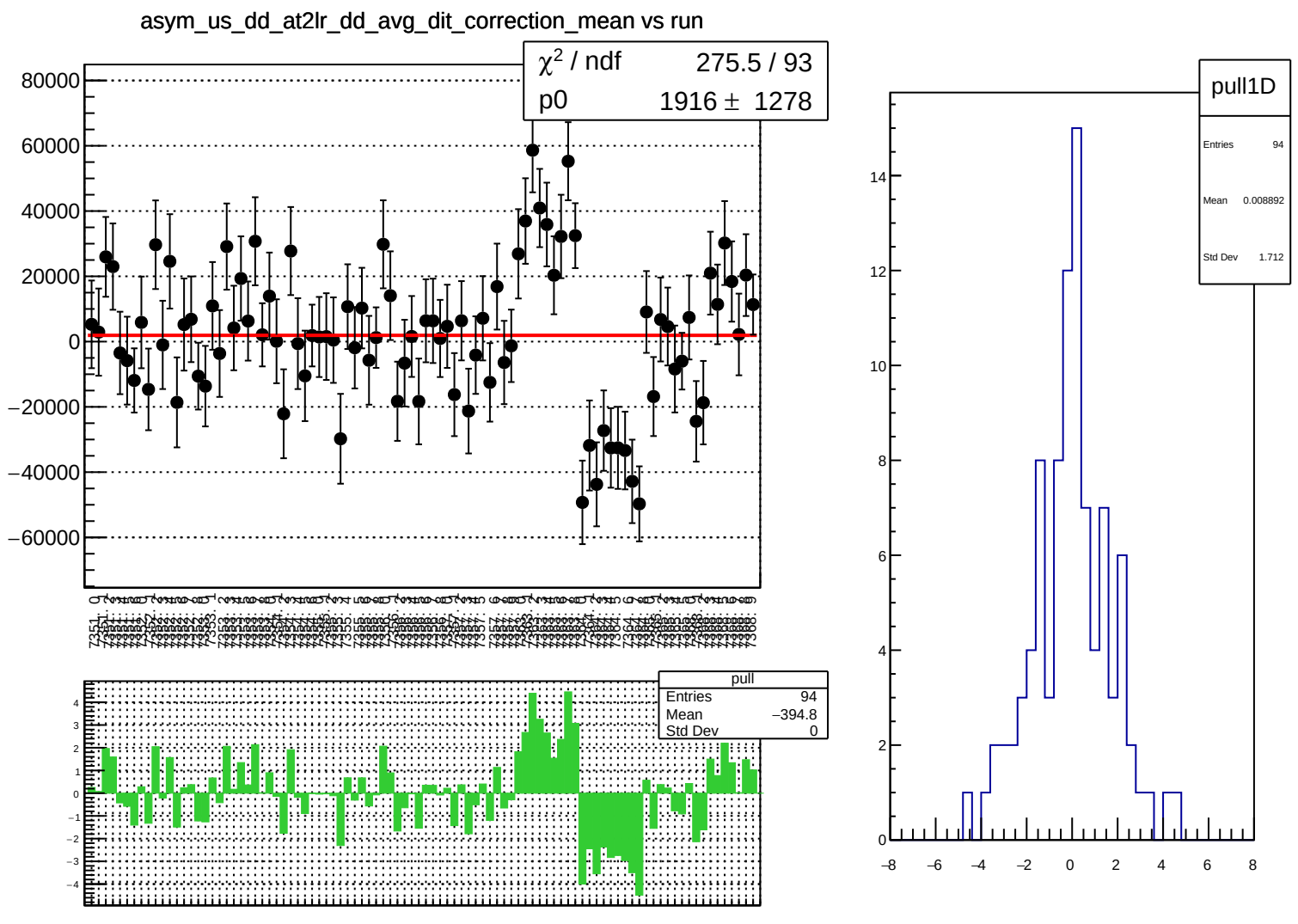

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 271.6 / 93
p0 991.2 ± 1186
pull
Entries 94
Mean −635.1
Std Dev 0

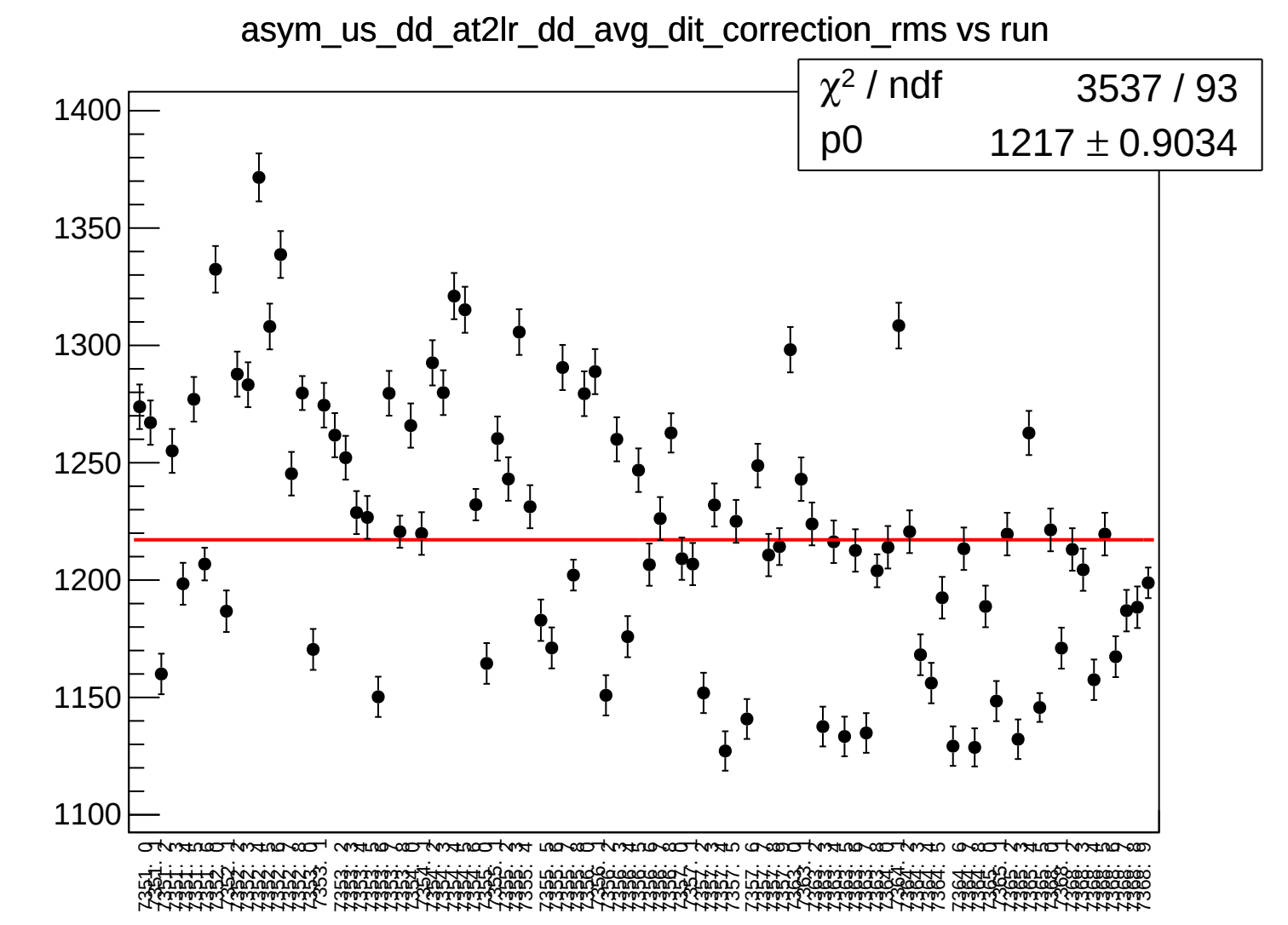

pull1D
Entries 94
Mean 0.003016
Std Dev 1.7

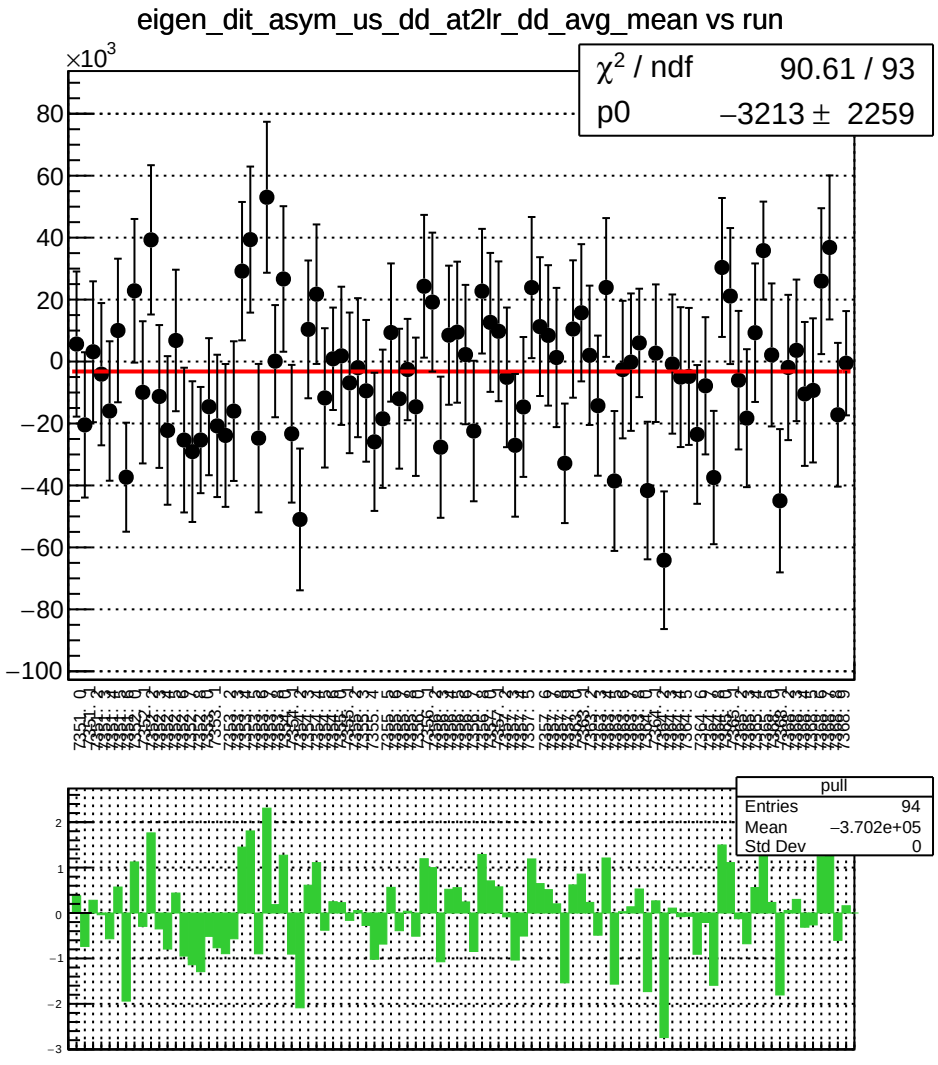

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 7840 / 93
p0 1129 ± 0.8388
1400
1350
1300
1250
1200
1150
1100
1050
1000
950

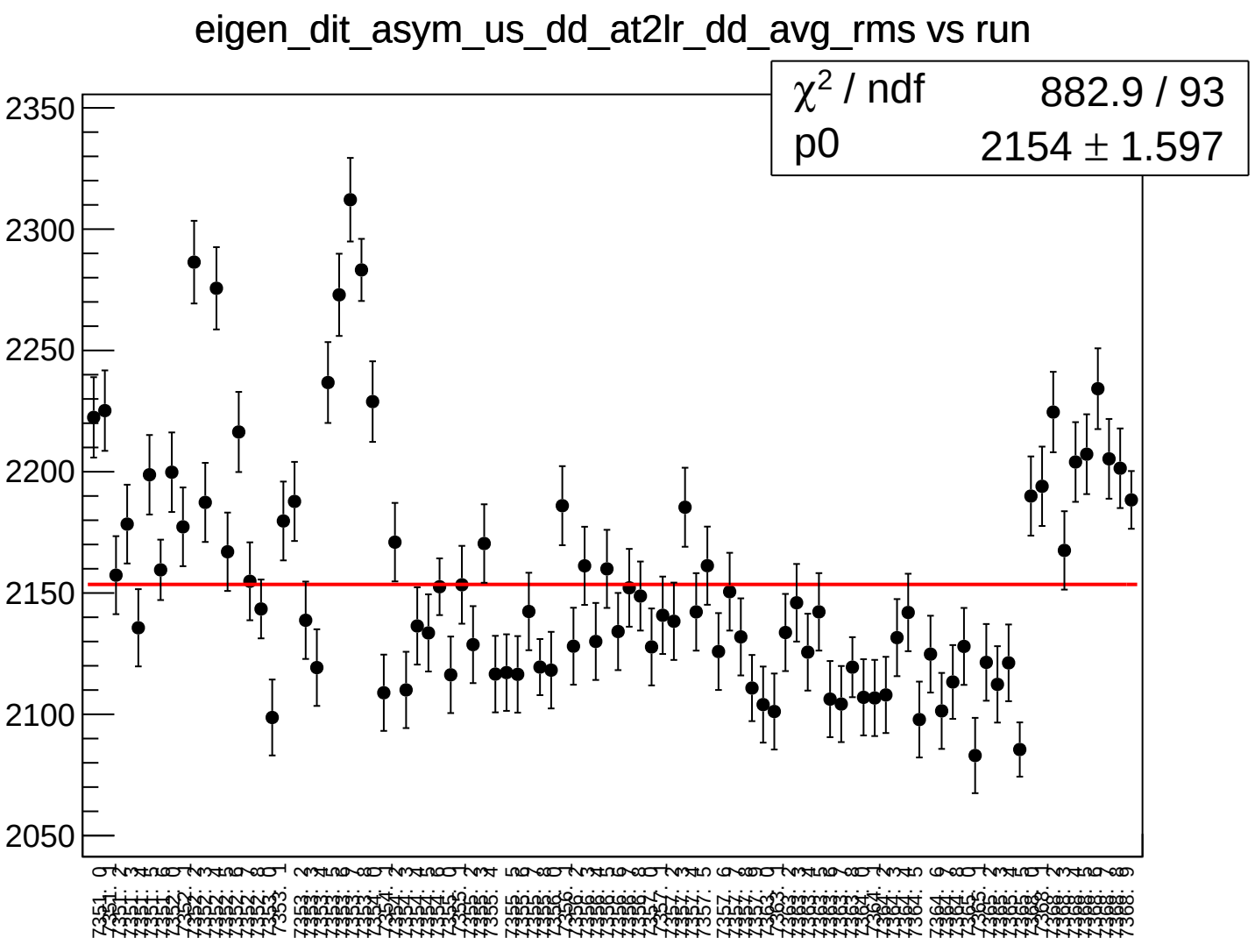

dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 90.61 / 93
p0 −3212 ± 2259
×10³
pull
Entries 94
Mean −3.768e+05
Std Dev 0
pull1D
Entries 94
Mean −4.004e−06
Std Dev 0.9818

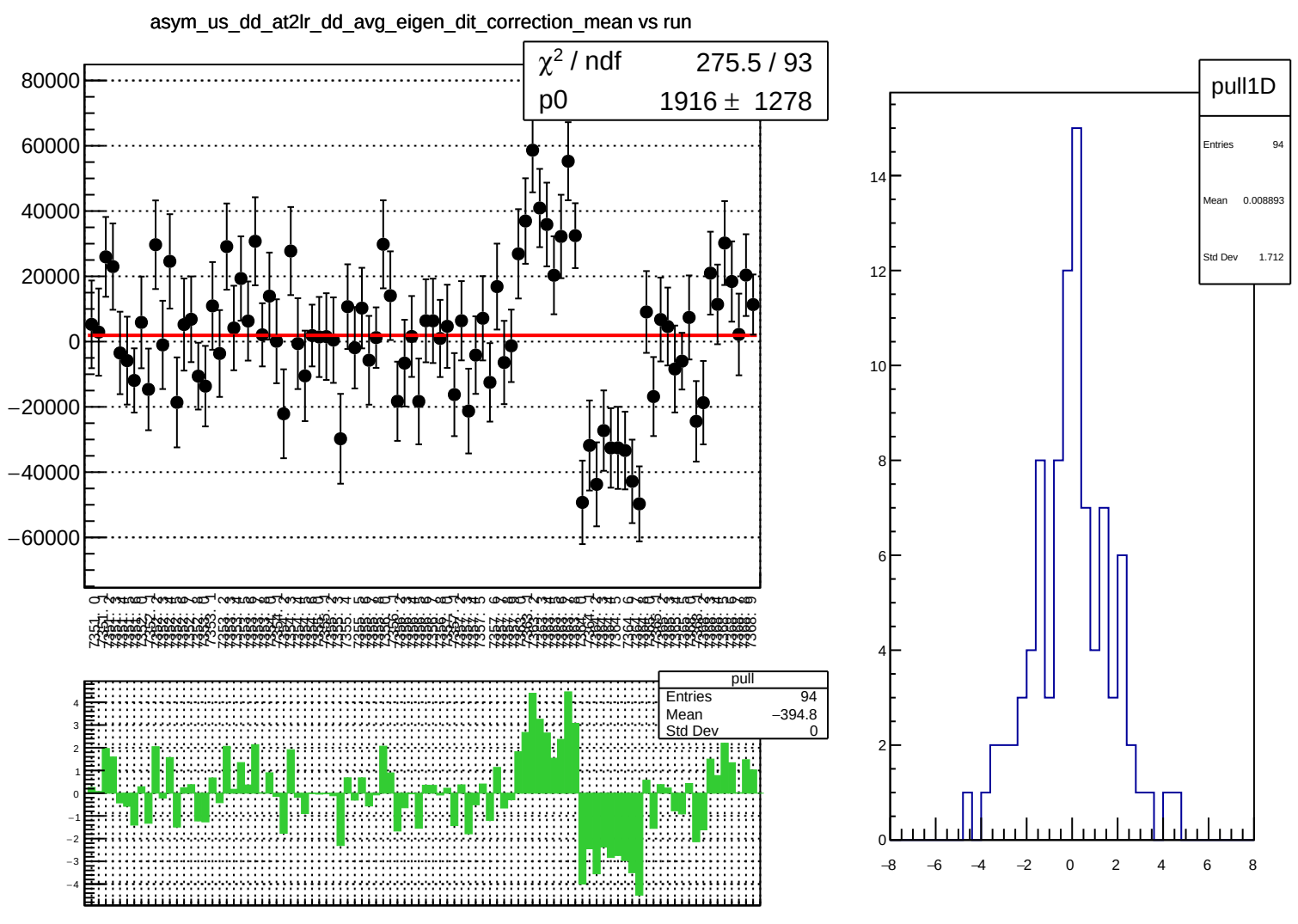

dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 882.9 / 93
p0 2154 ± 1.597
2350
2300
2250
2200
2150
2100
2050

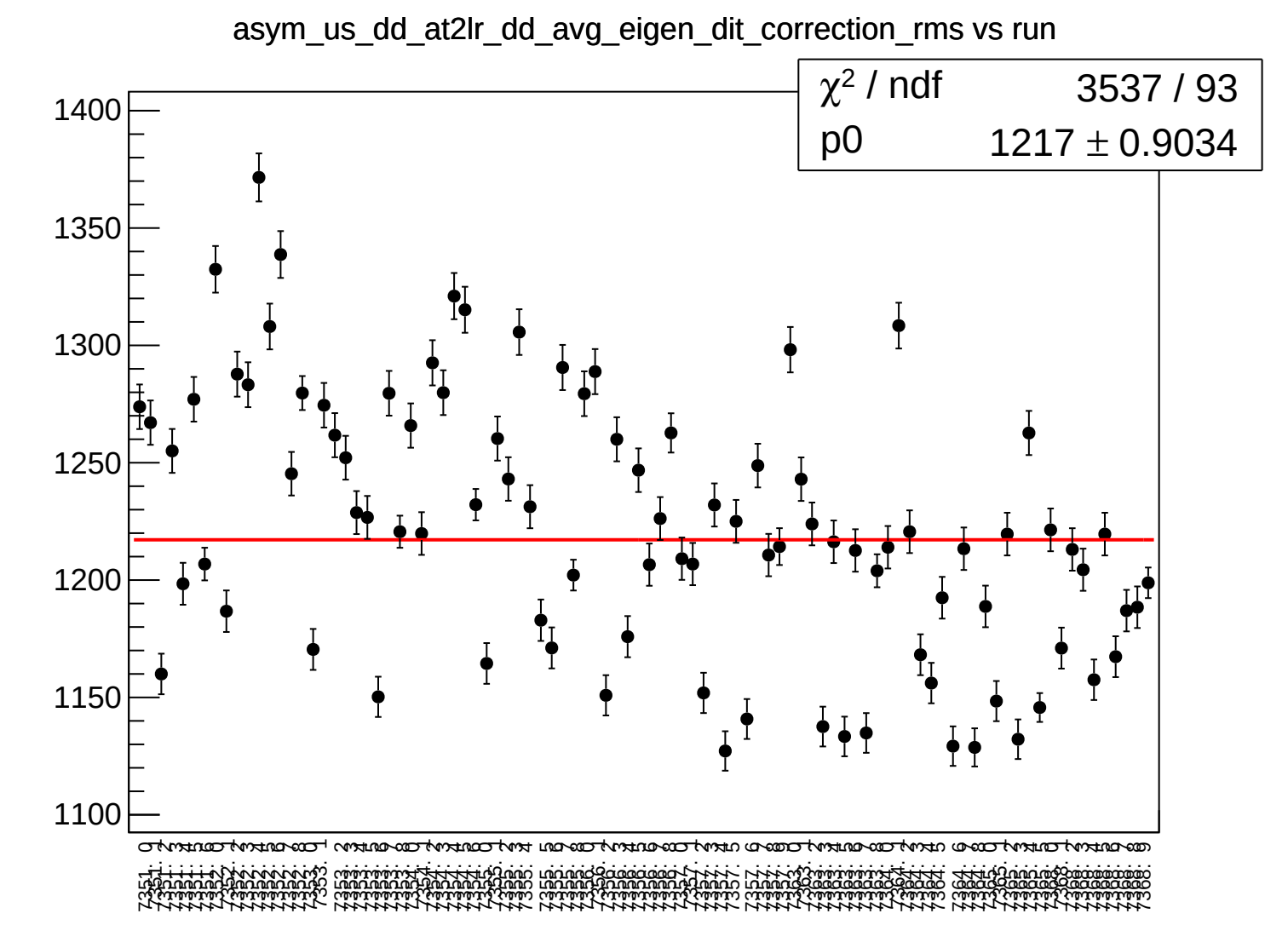

asym_us_dd_at2lr_dd_avg_dit_correction_mean vs run
χ² / ndf 275.5 / 93
p0 1916 ± 1278
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −394.8
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 94
Mean 0.008892
Std Dev 1.712
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

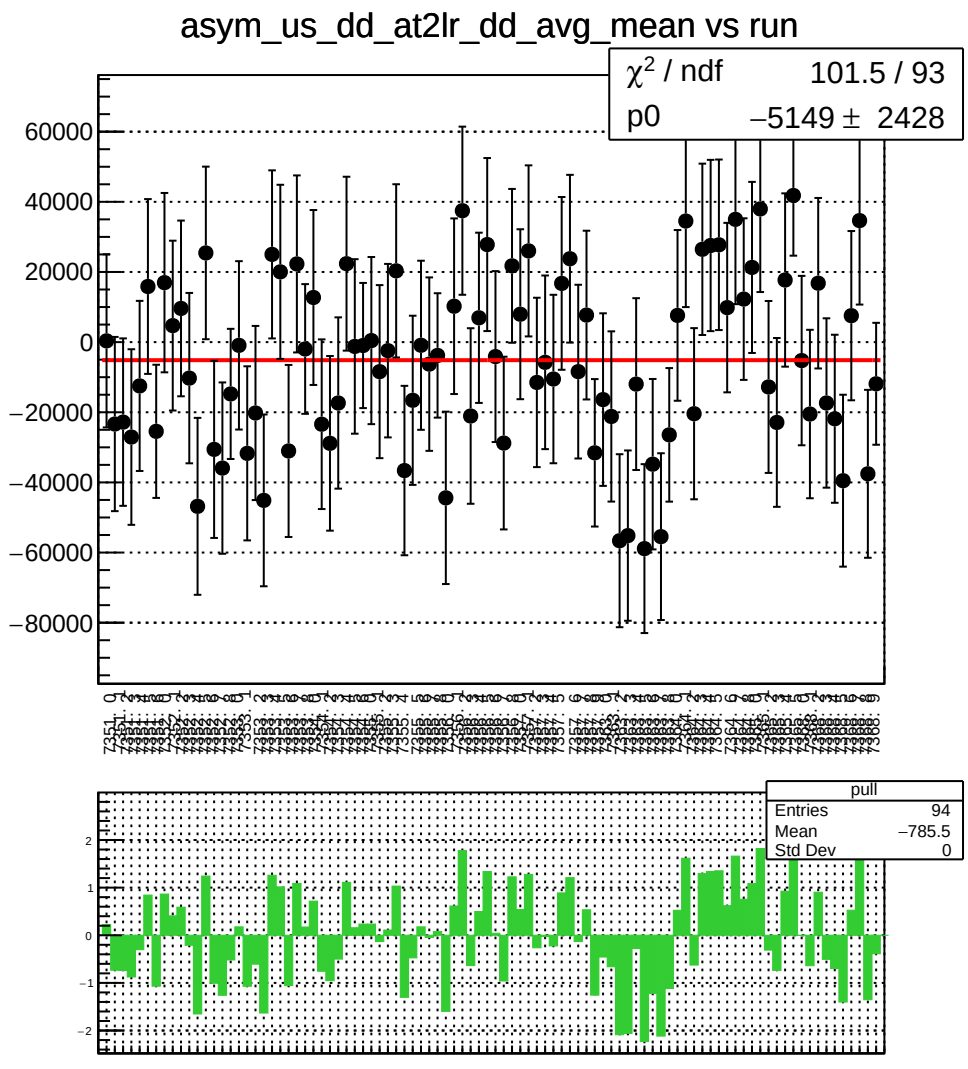

asym_us_dd_at2lr_dd_avg_dit_correction_rms vs run
χ² / ndf 3537 / 93
p0 1217 ± 0.9034
1400
1350
1300
1250
1200
1150
1100

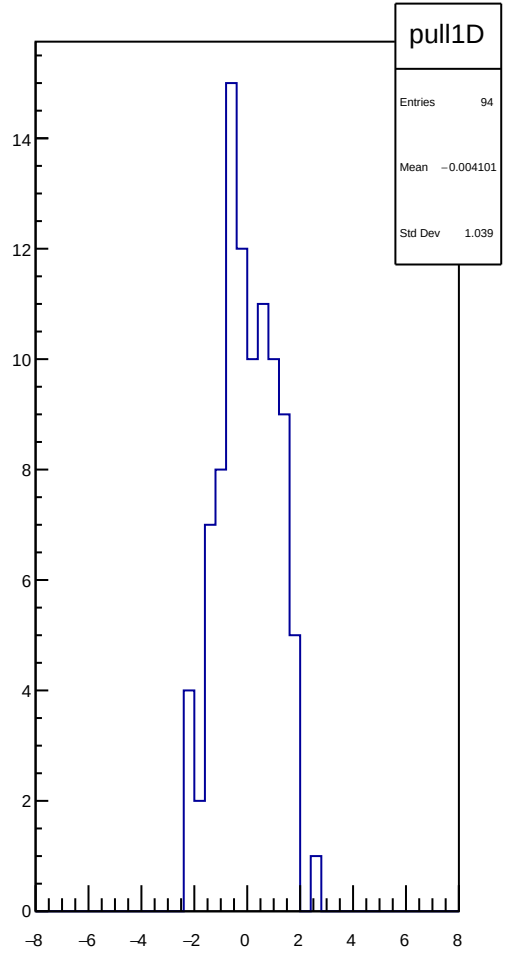

eigen_dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 90.61 / 93
p0 −3213 ± 2259
×10³
pull
Entries 94
Mean −3.702e+05
Std Dev 0
pull1D
Entries 94
Mean −4.075e−06
Std Dev 0.9818

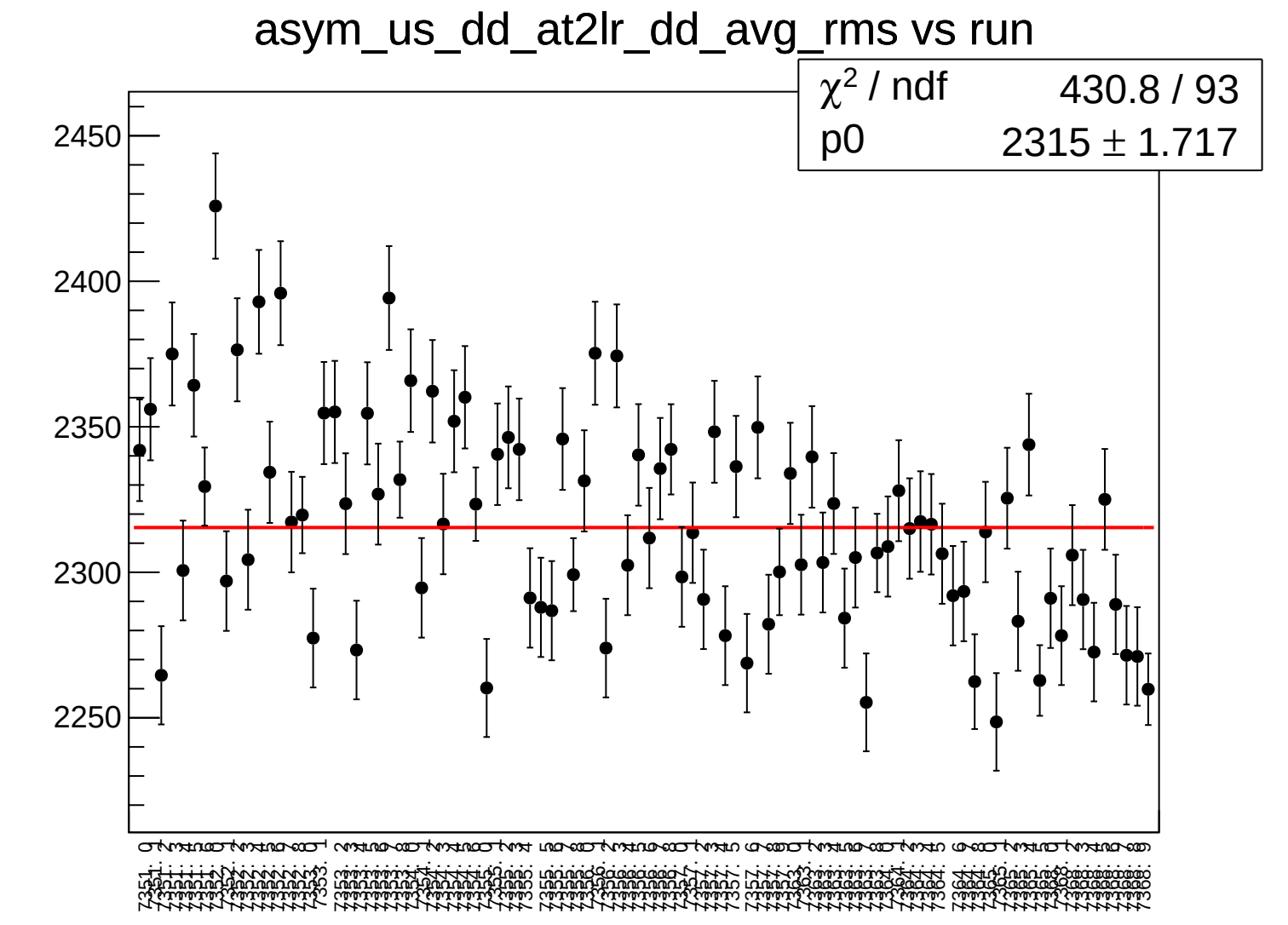

eigen_dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ^2 / ndf 882.9 / 93
p0 2154 ± 1.597
2350
2300
2250
2200
2150
2100
2050

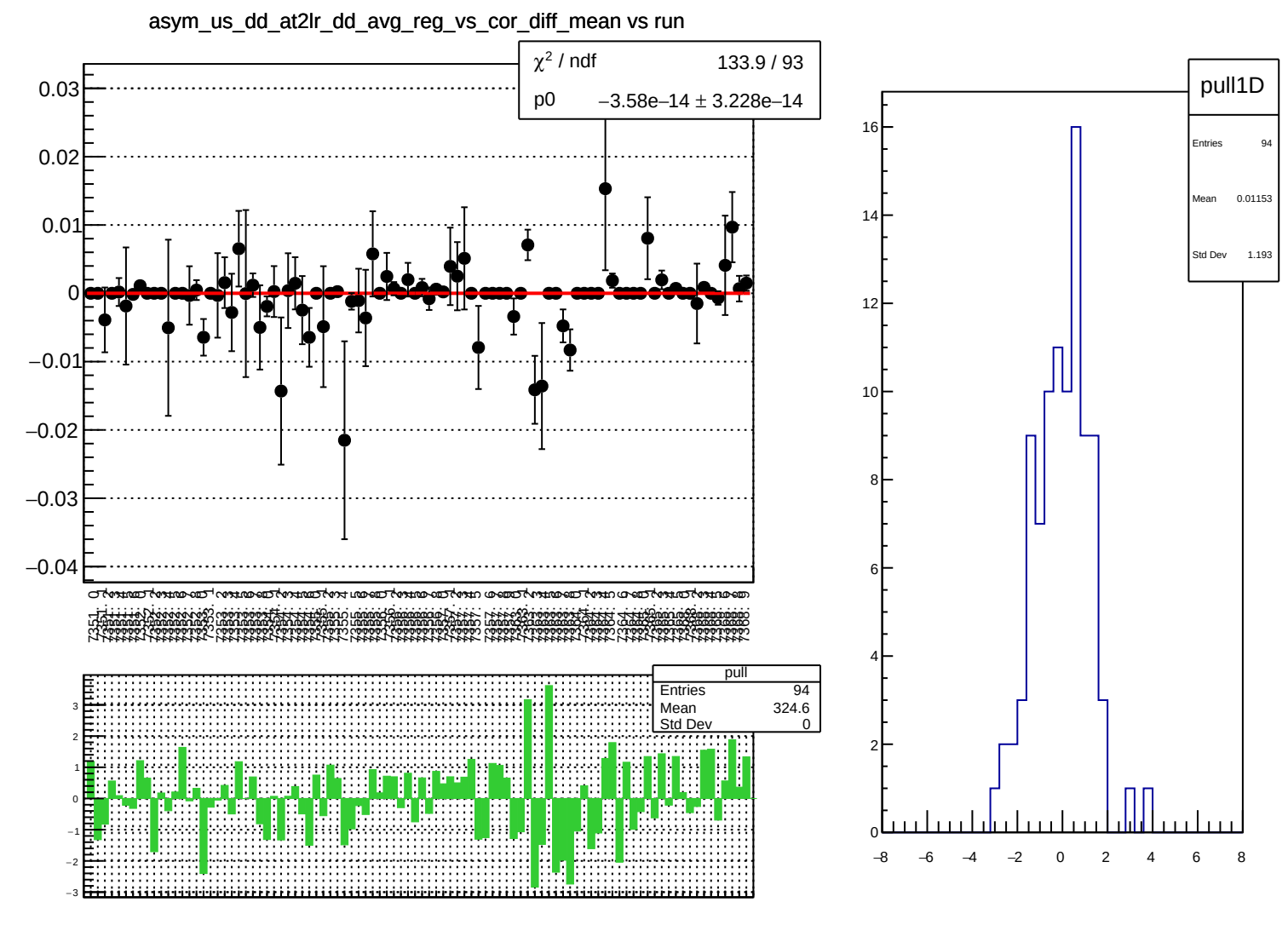

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 275.5 / 93
p0 1916 ± 1278
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −394.8
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 94
Mean 0.008893
Std Dev 1.712
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

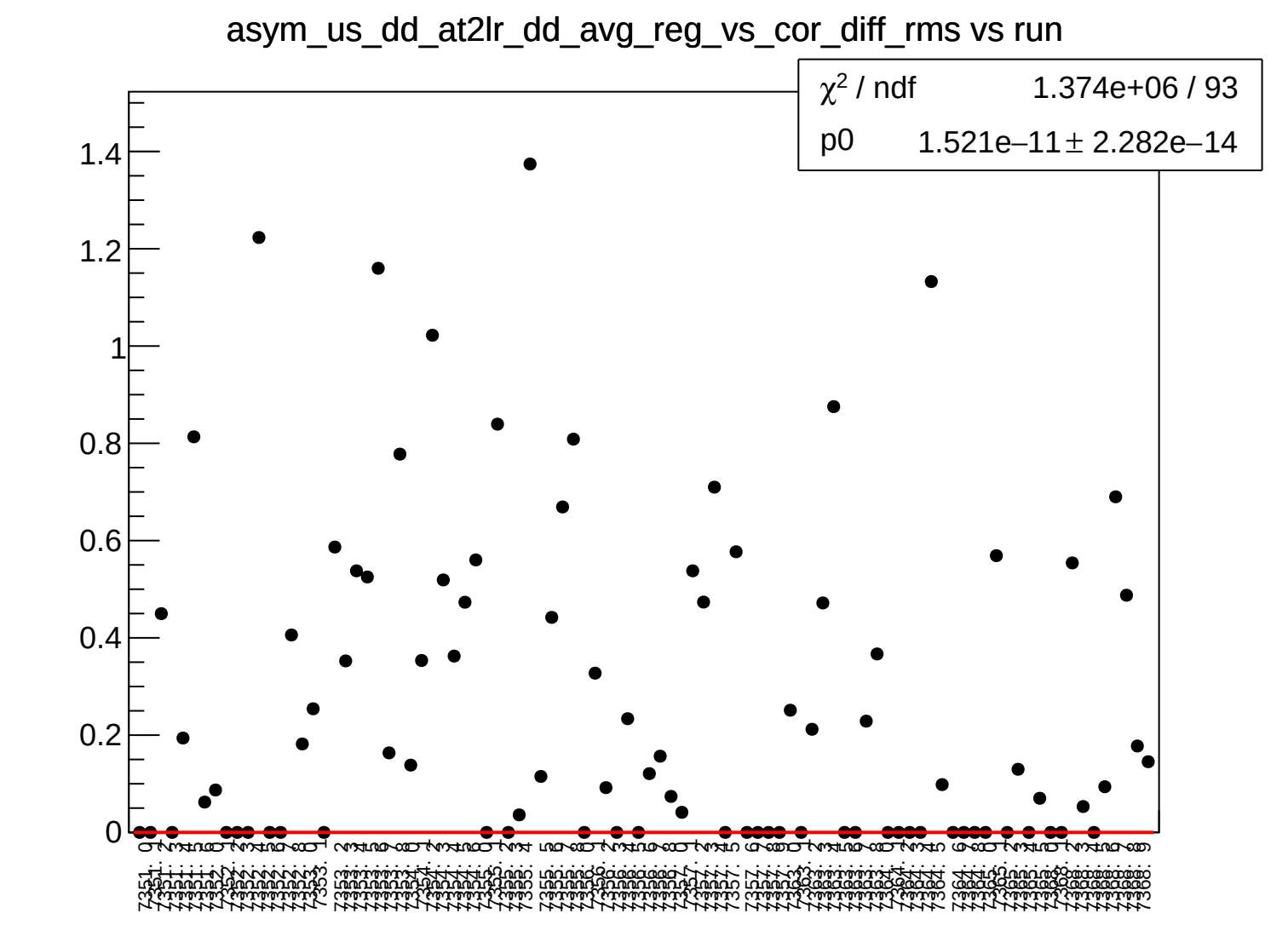

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 3537 / 93
p0 1217 ± 0.9034
1400
1350
1300
1250
1200
1150
1100

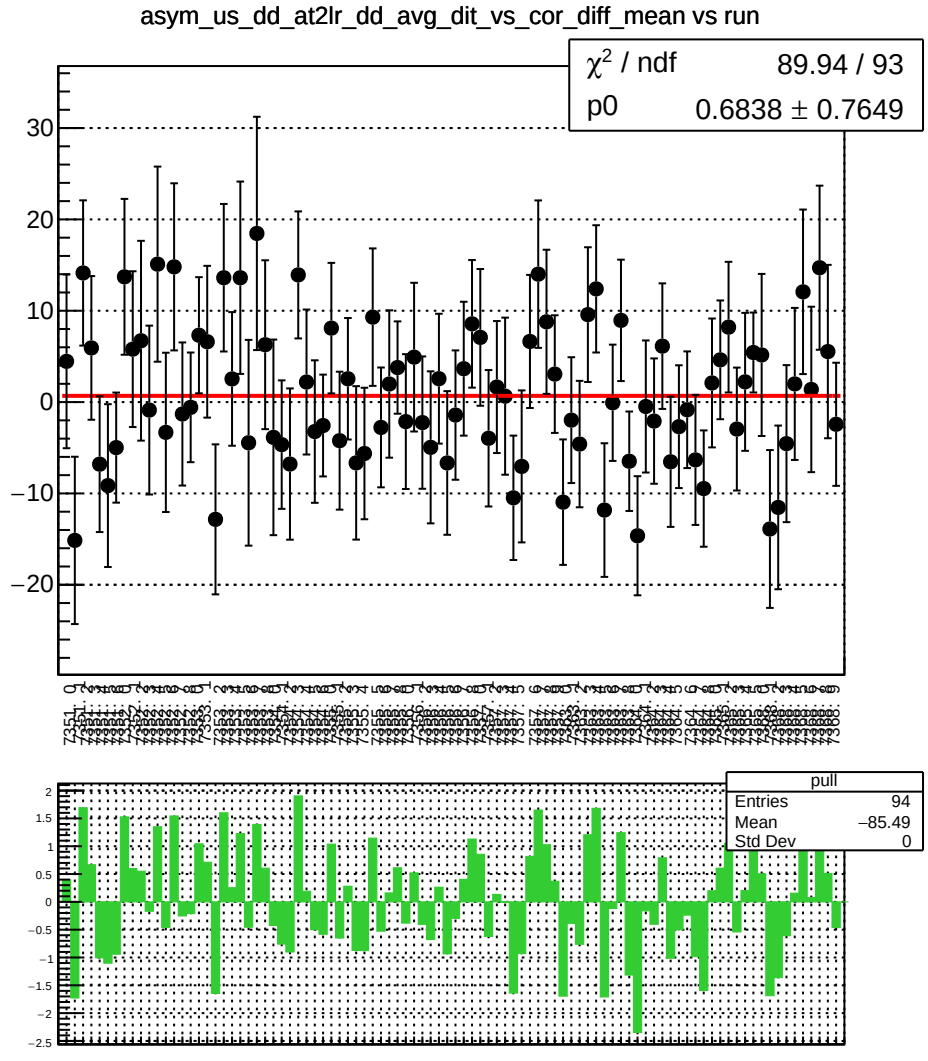

asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 101.5 / 93
p0 −5149 ± 2428
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean −785.5
Std Dev 0
2
1
0
−1
−2

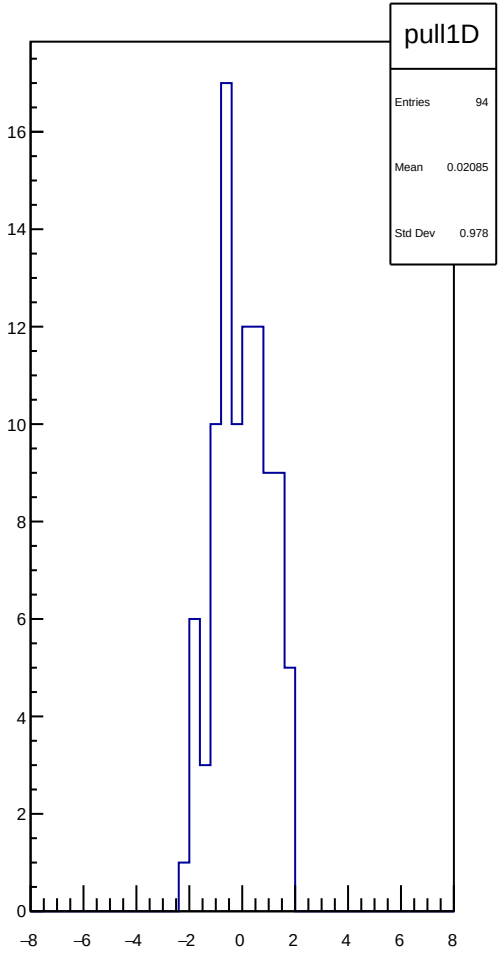

pull1D
Entries 94
Mean −0.004101
Std Dev 1.039
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

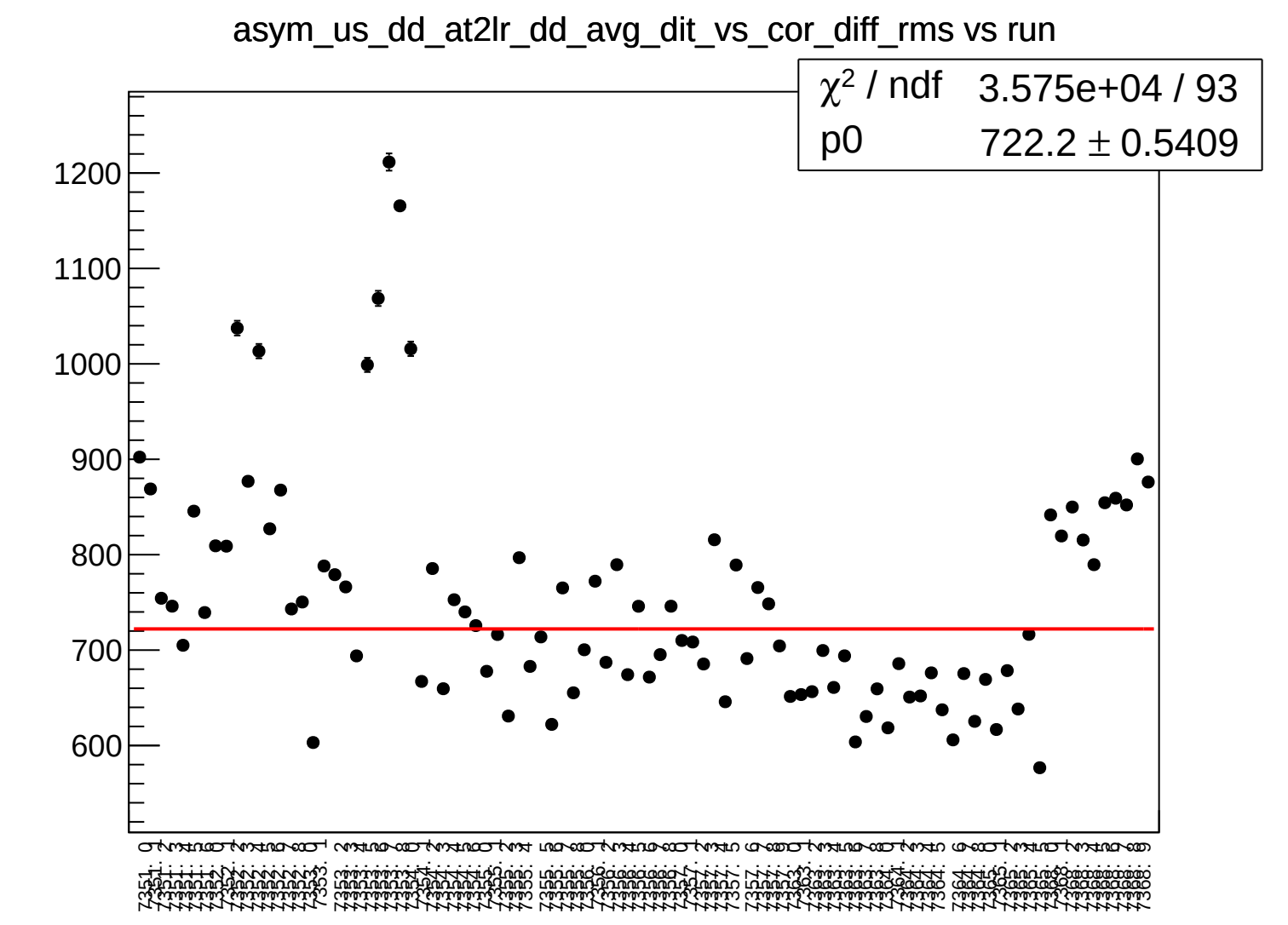

asym_us_dd_at2lr_dd_avg_rms vs run
χ^2 / ndf 430.8 / 93
p0 2315 ± 1.717
2450
2400
2350
2300
2250

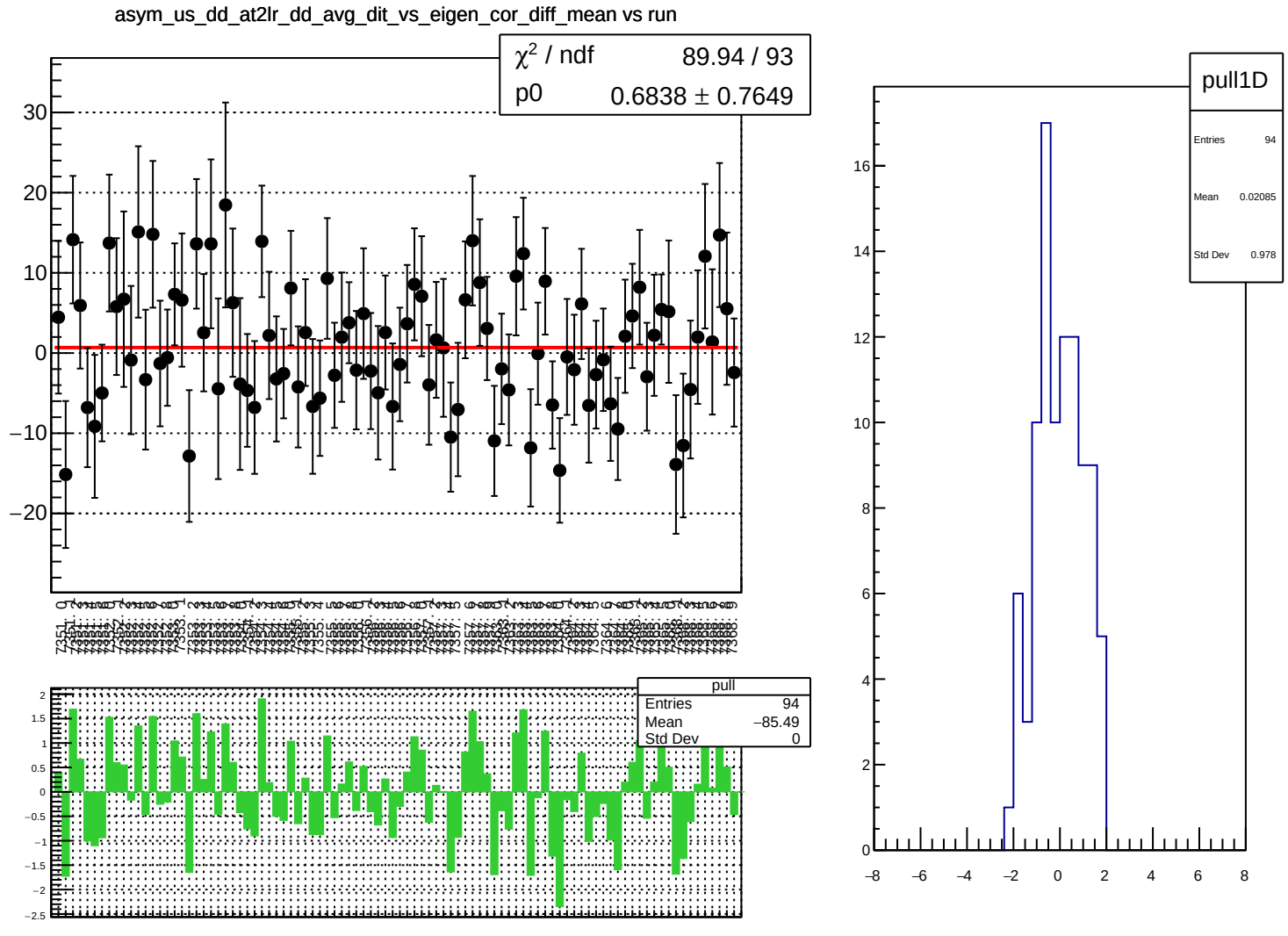

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 133.9 / 93
p0 −3.58e−14 ± 3.228e−14
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 94
Mean 324.6
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.01153
Std Dev 1.193
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

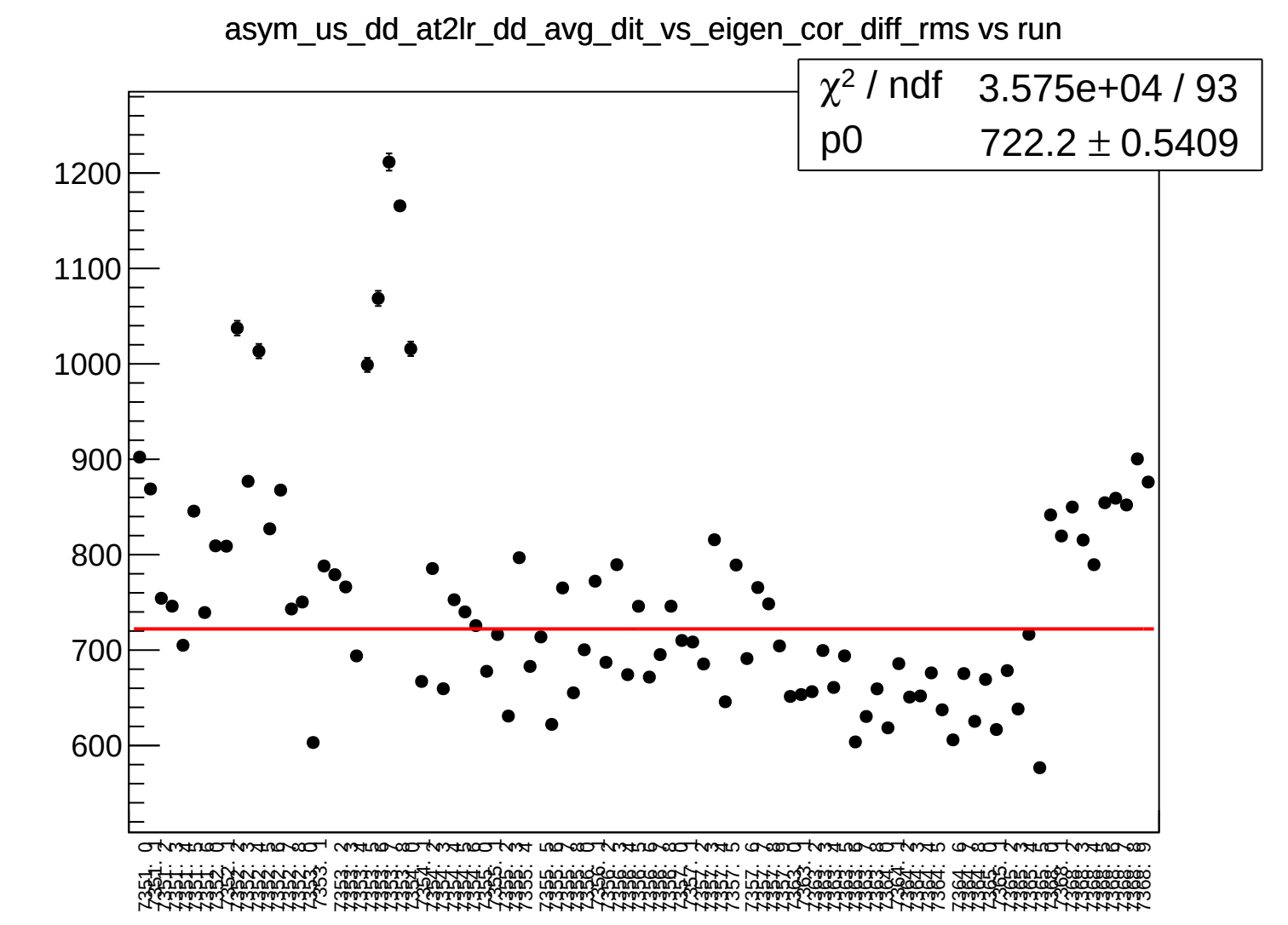

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.374e+06 / 93
p0 1.521e−11 ± 2.282e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

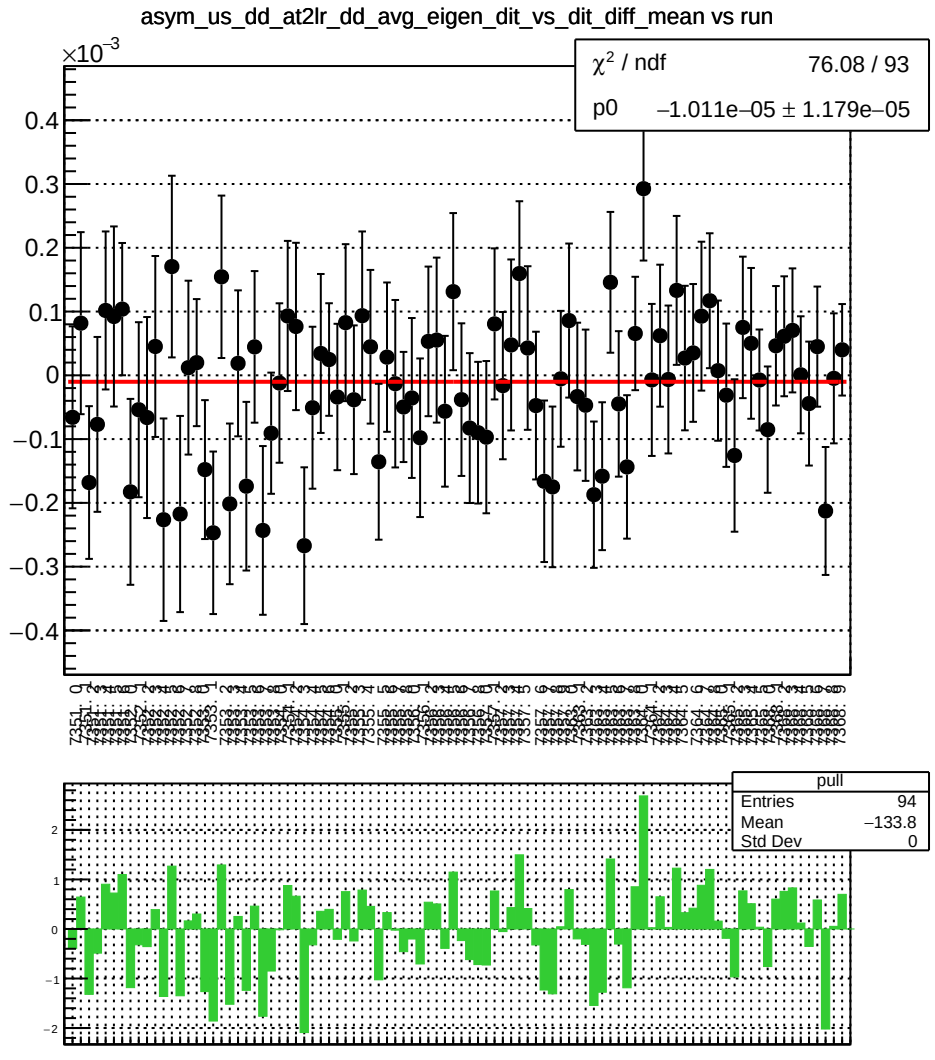

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 89.94 / 93
p0 0.6838 ± 0.7649
pull
Entries 94
Mean −85.49
Std Dev 0

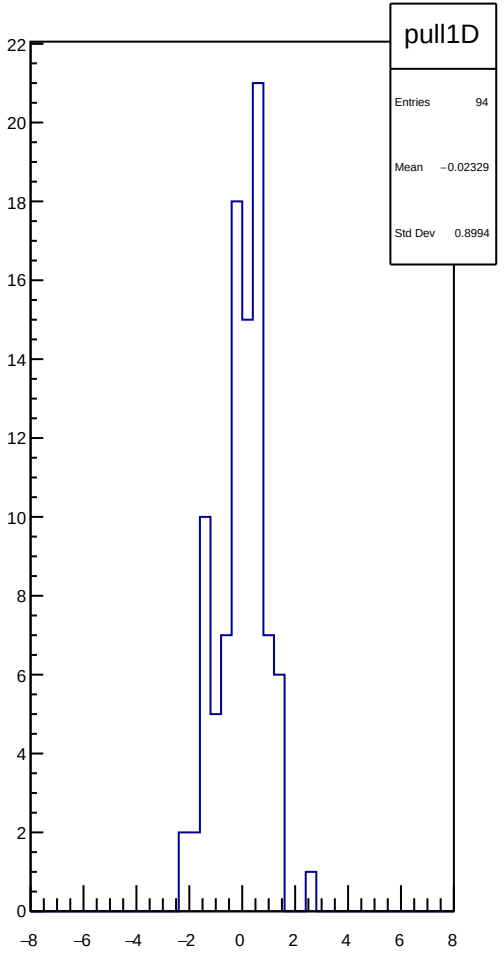

pull1D
Entries 94
Mean 0.02085
Std Dev 0.978

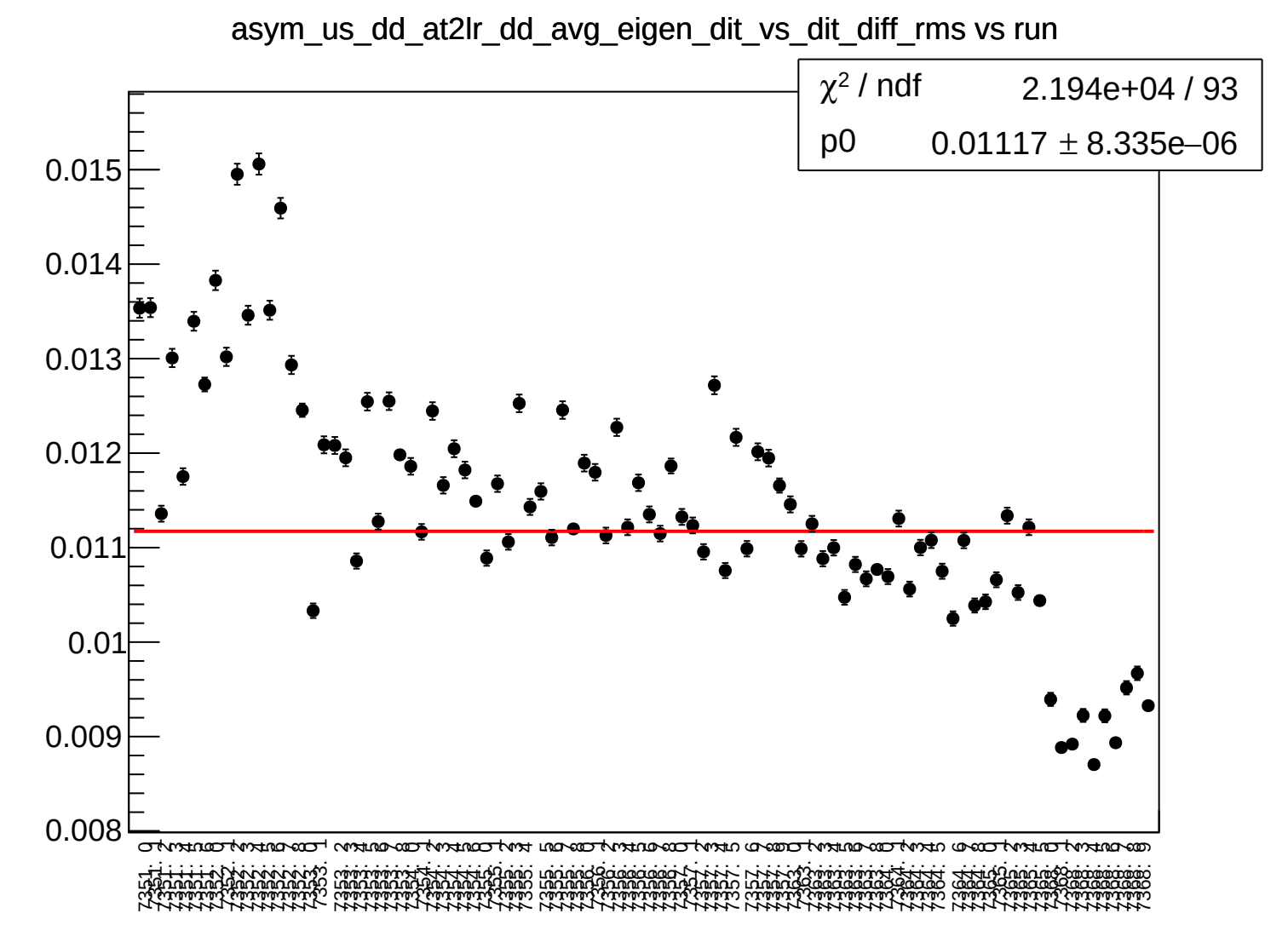

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.575e+04 / 93
p0 722.2 ± 0.5409
1200
1100
1000
900
800
700
600

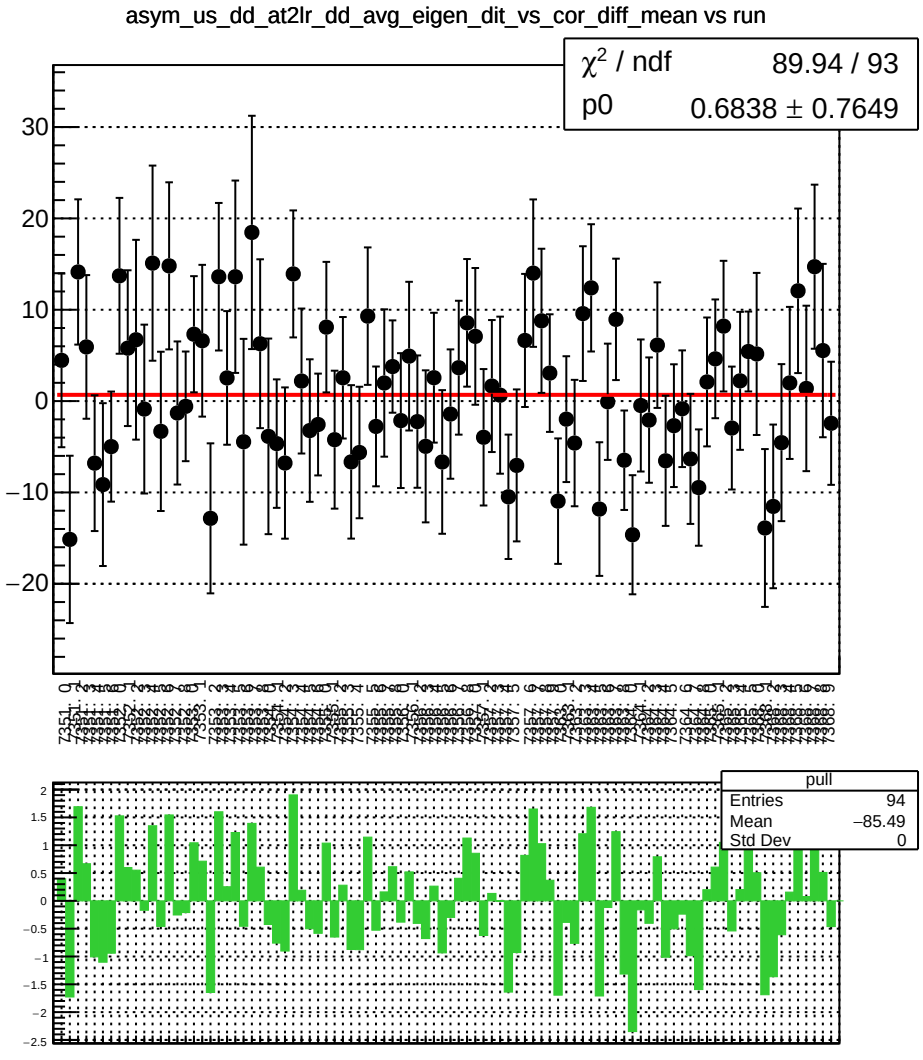

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.94 / 93
p0 0.6838 ± 0.7649
pull
Entries 94
Mean −85.49
Std Dev 0
pull1D
Entries 94
Mean 0.02085
Std Dev 0.978

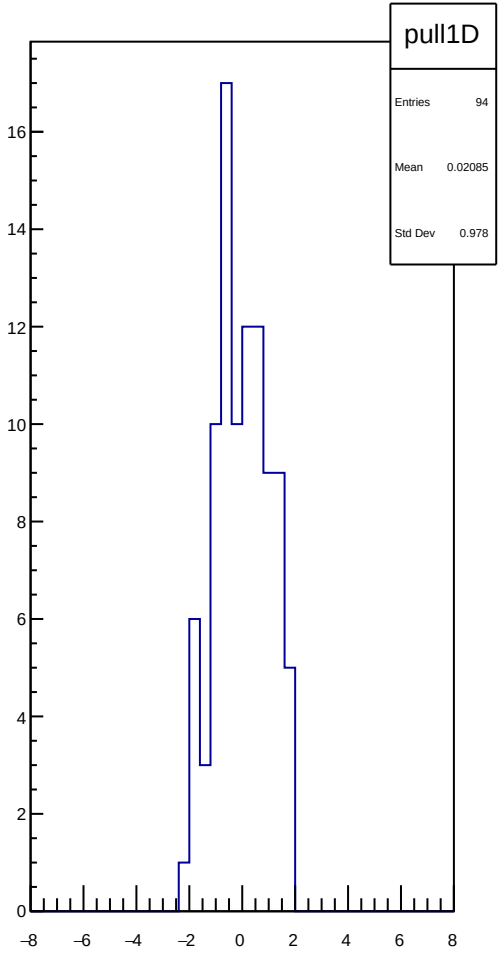

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.575e+04 / 93
p0 722.2 ± 0.5409
1200
1100
1000
900
800
700
600

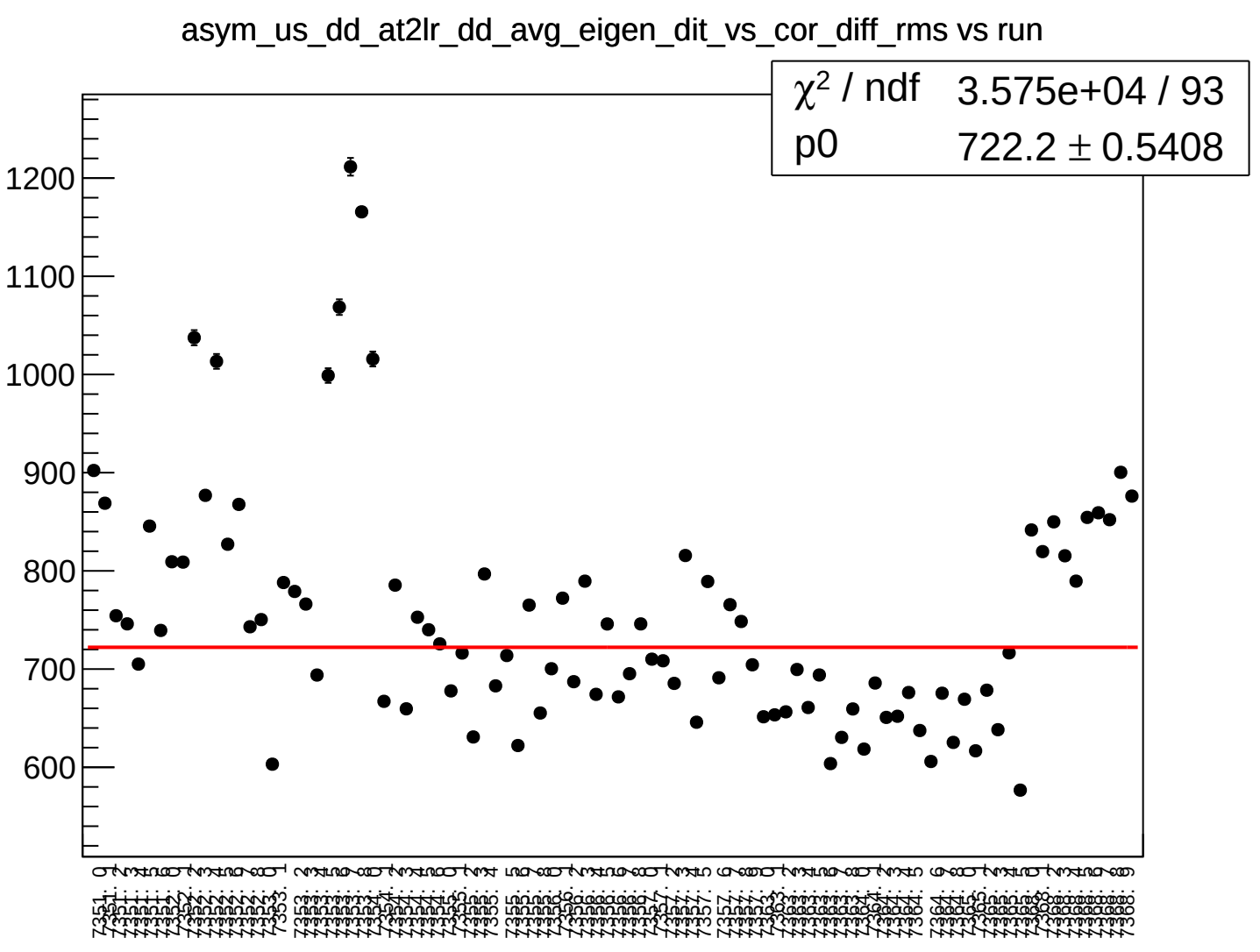

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 76.08 / 93
p0 −1.011e−05 ± 1.179e−05
pull
Entries 94
Mean −133.8
Std Dev 0

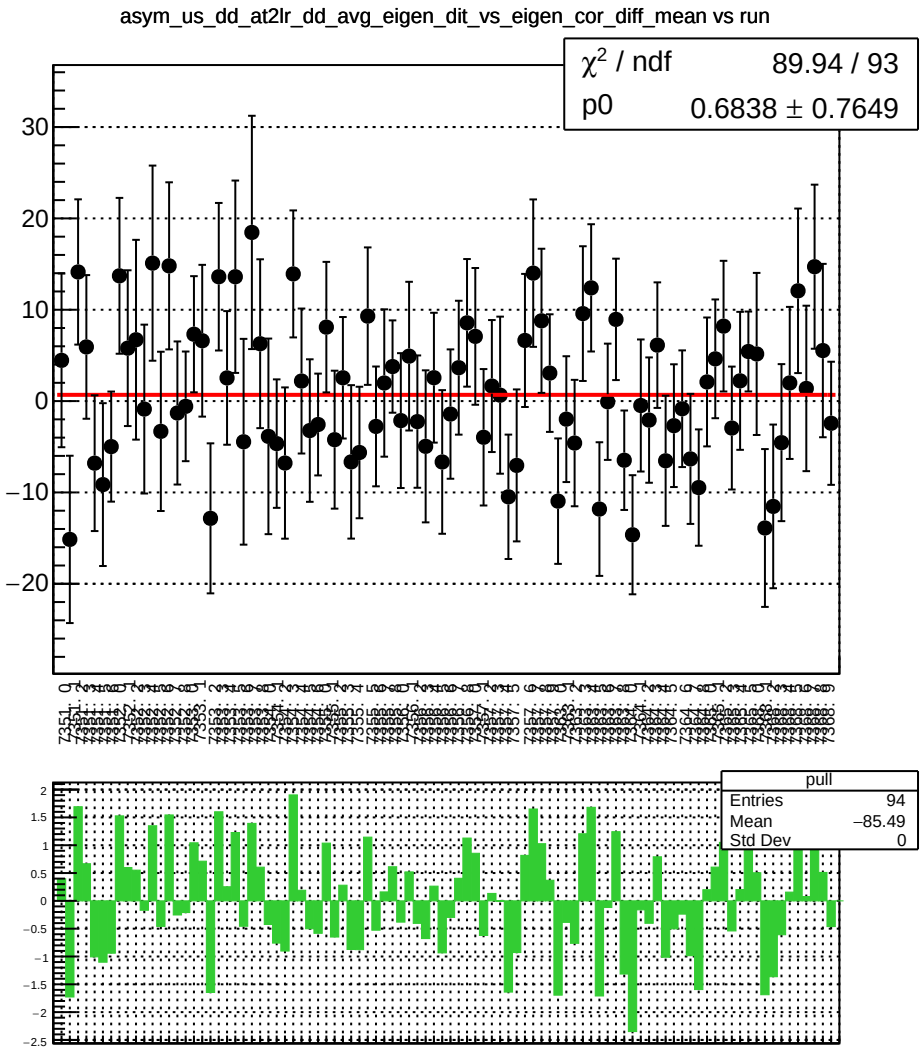

pull1D
Entries 94
Mean −0.02329
Std Dev 0.8994

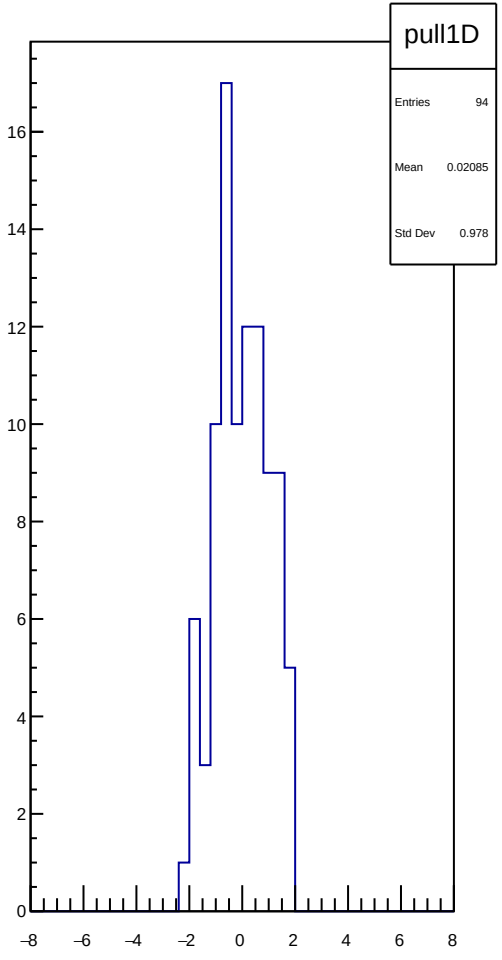

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.194e+04 / 93
p0 0.01117 ± 8.335e−06
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008

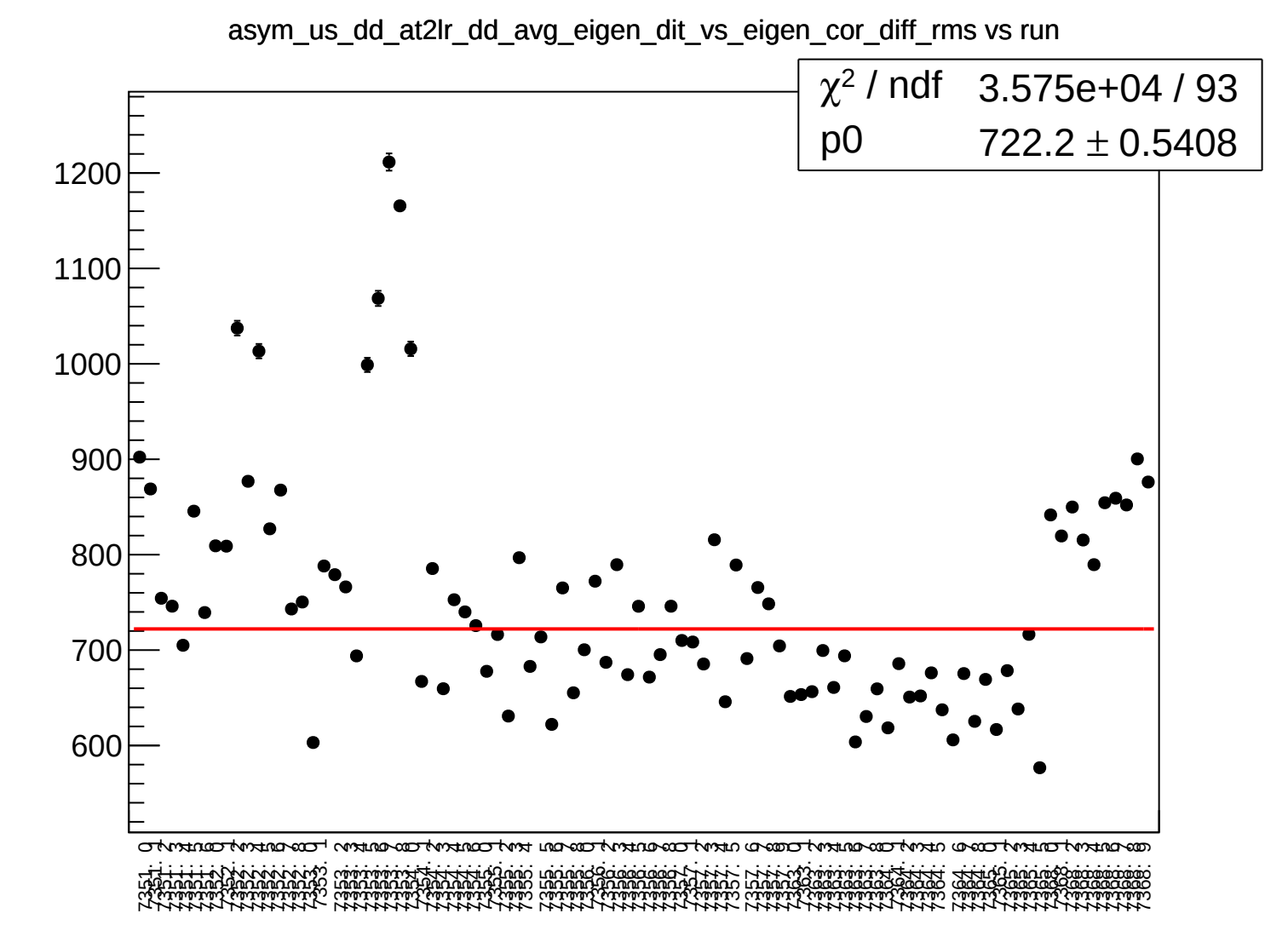

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.94 / 93
p0 0.6838 ± 0.7649
pull
Entries 94
Mean −85.49
Std Dev 0

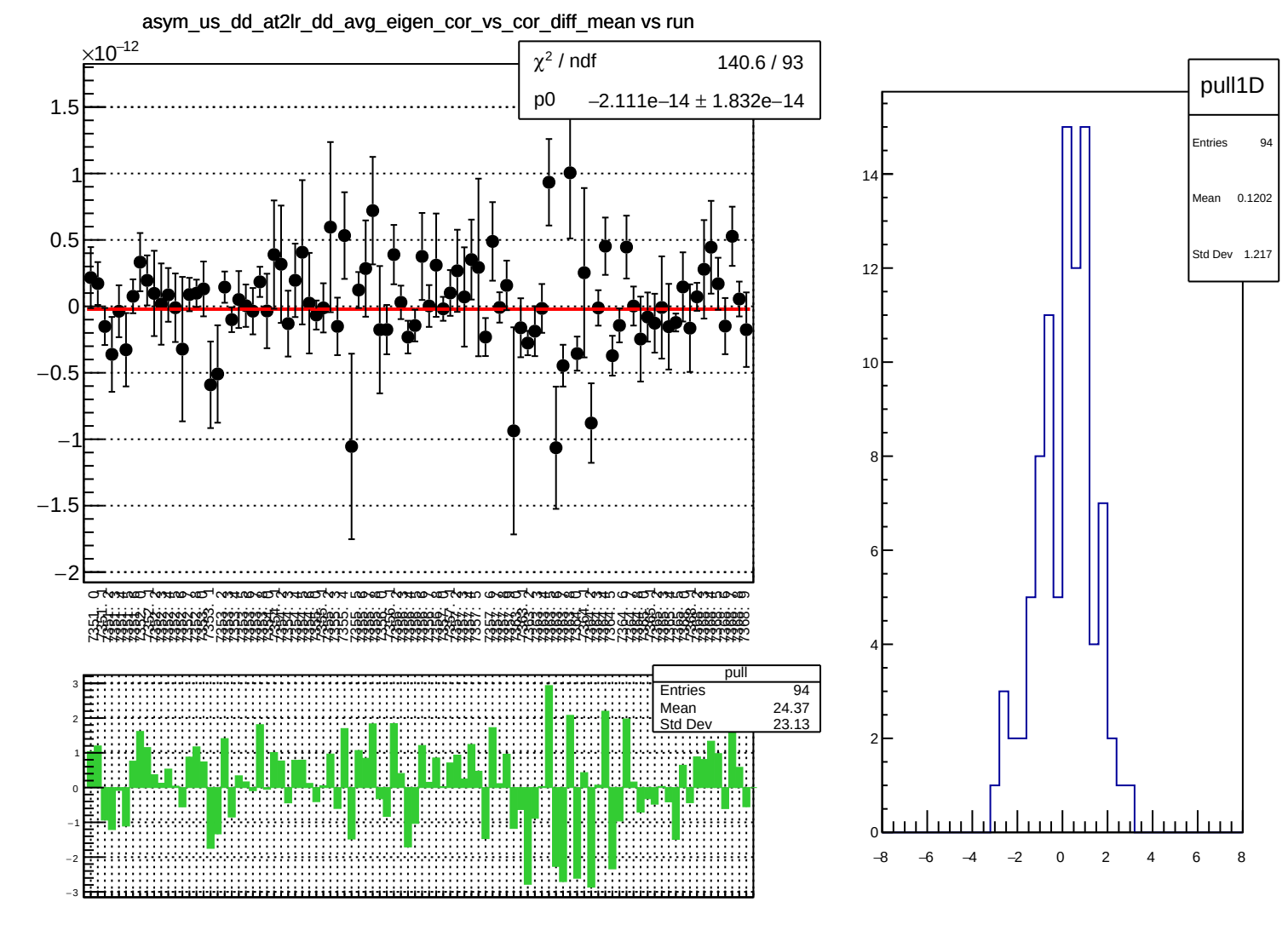

pull1D
Entries 94
Mean 0.02085
Std Dev 0.978

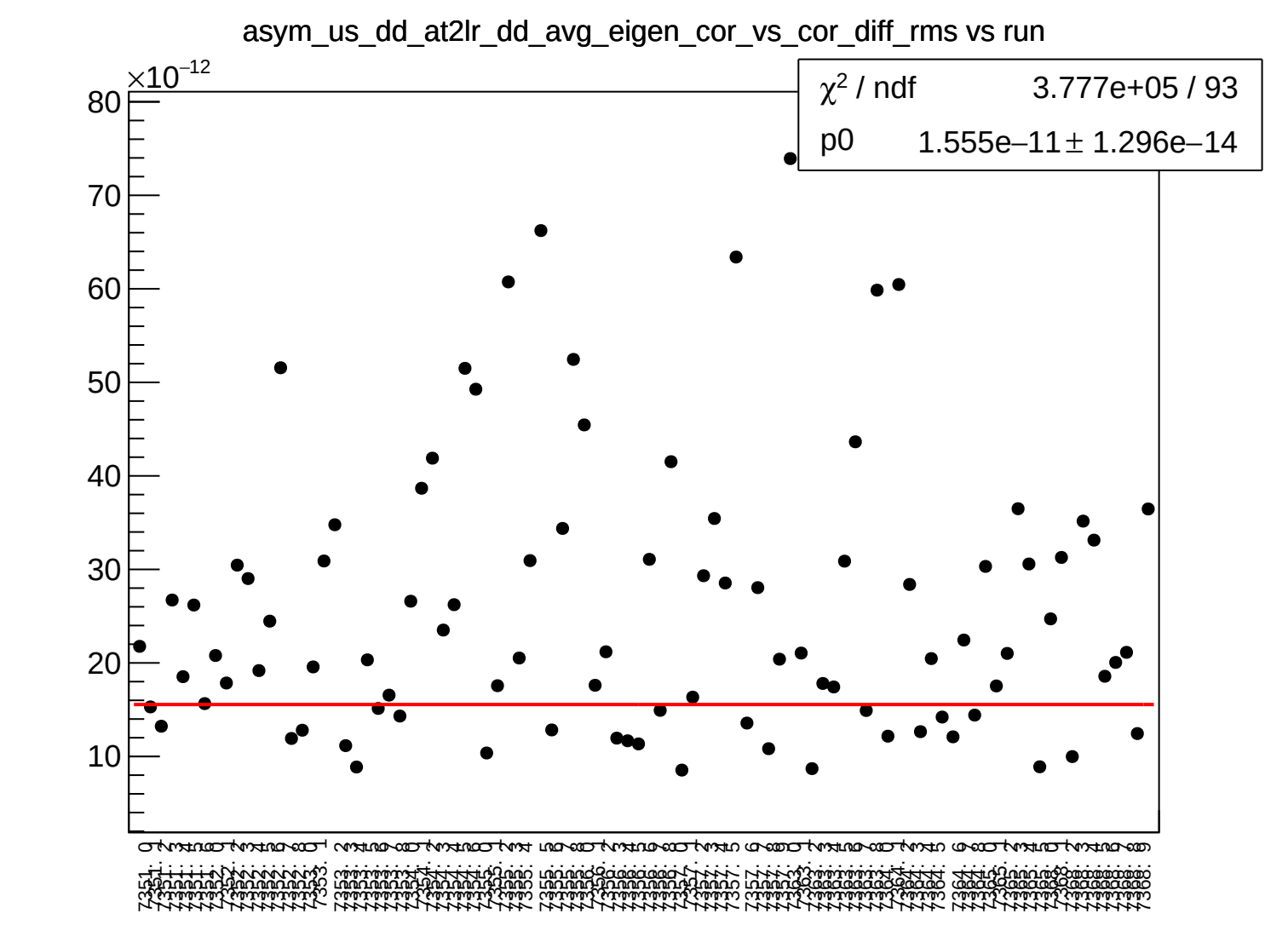

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.575e+04 / 93
p0 722.2 ± 0.5408
1200
1100
1000
900
800
700
600

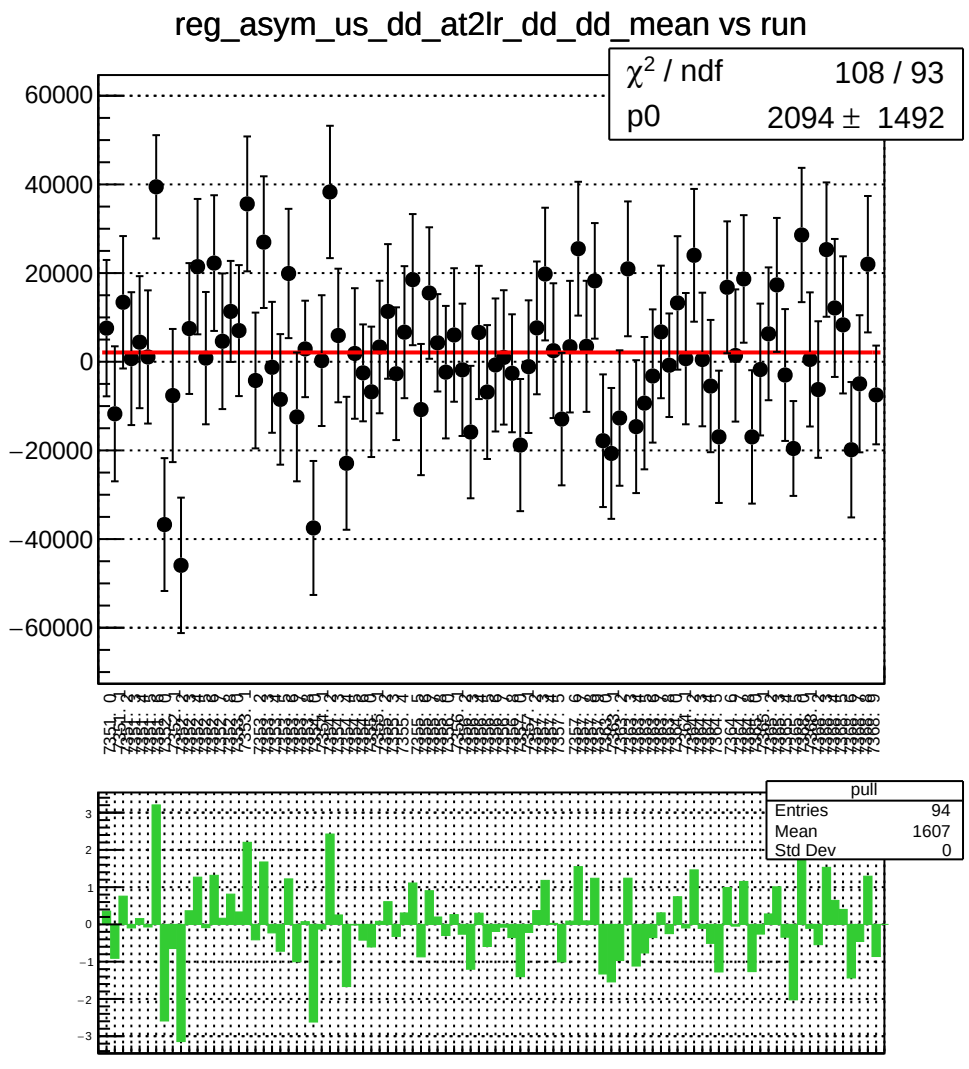

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.94 / 93
p0 0.6838 ± 0.7649
pull
Entries 94
Mean −85.49
Std Dev 0

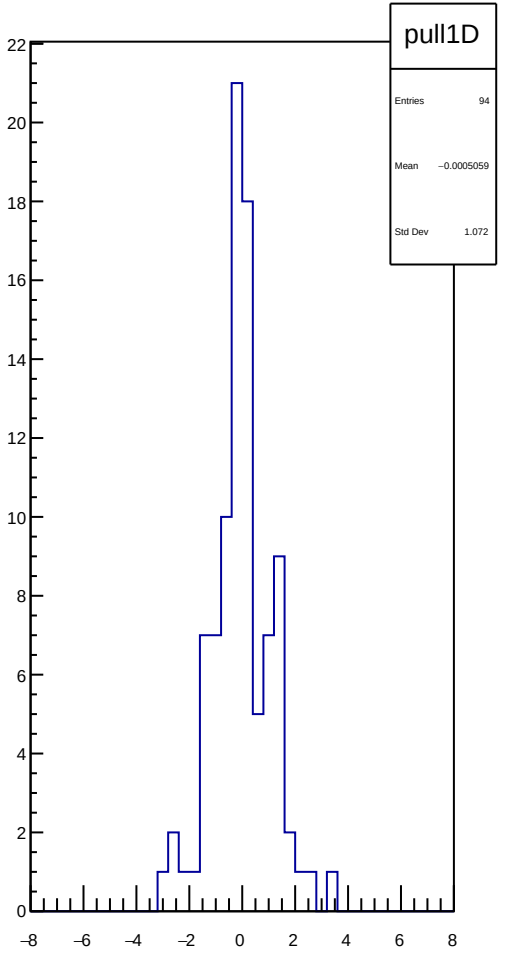

pull1D
Entries 94
Mean 0.02085
Std Dev 0.978

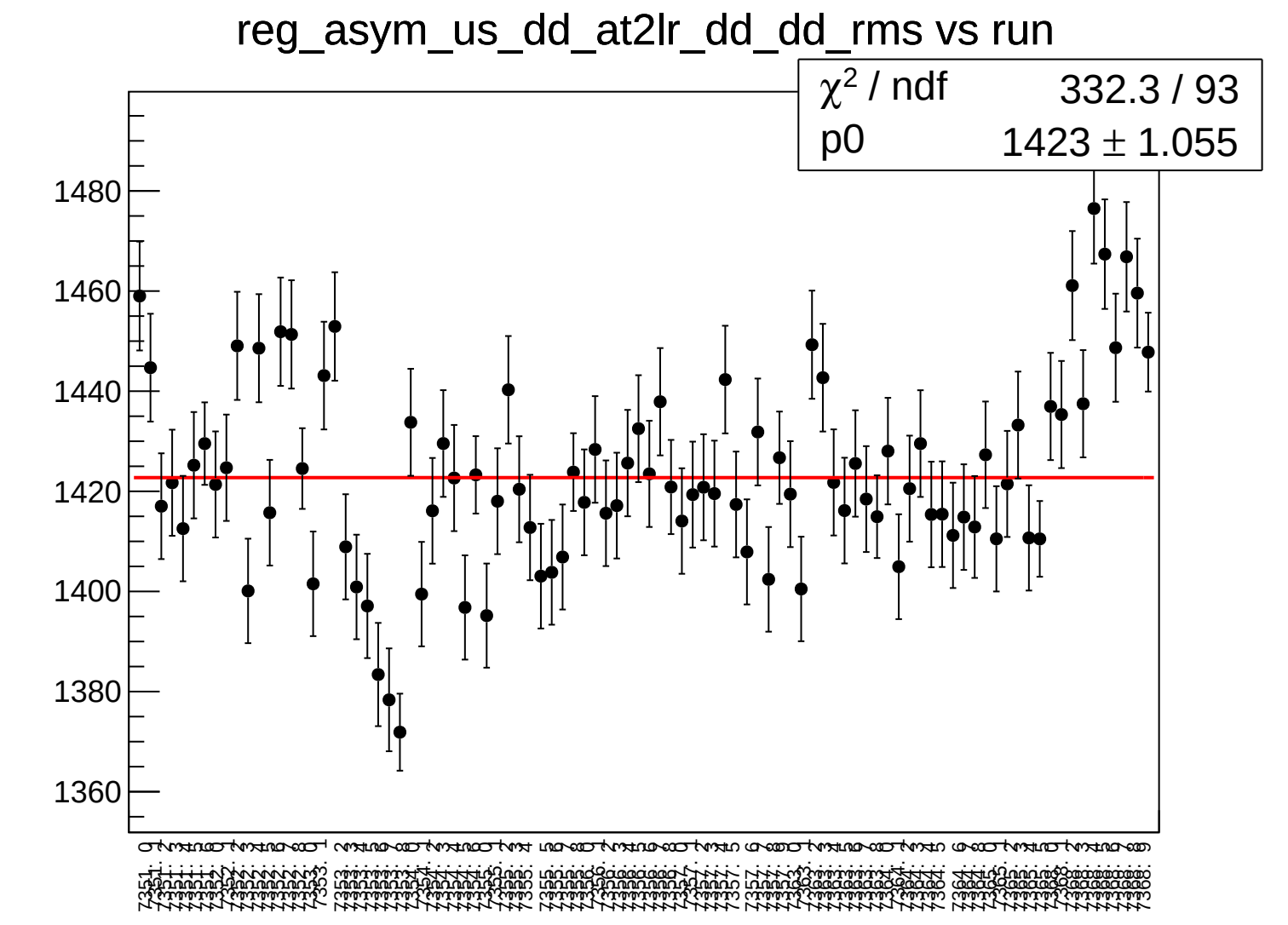

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.575e+04 / 93
p0 722.2 ± 0.5408
1200
1100
1000
900
800
700
600

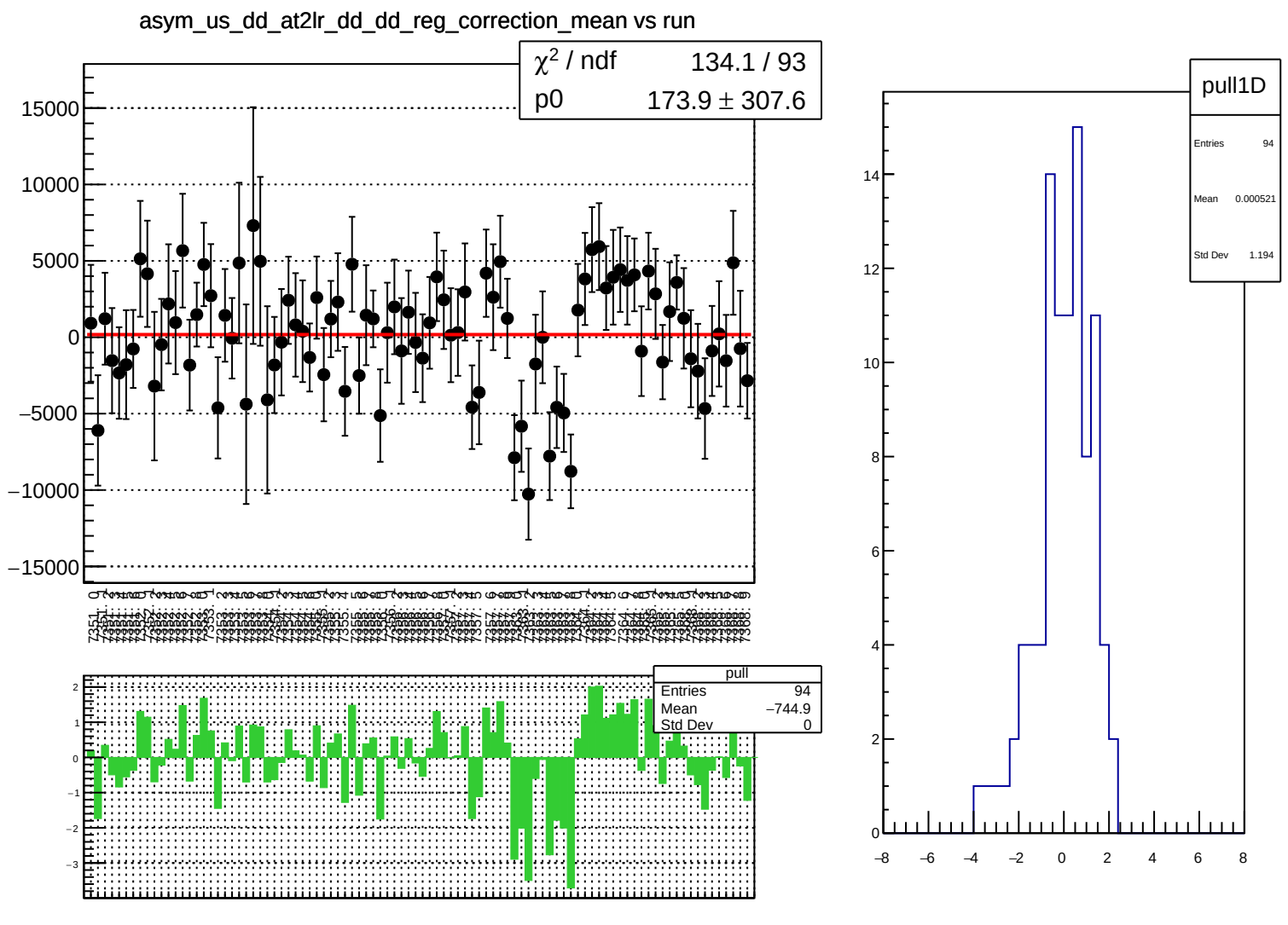

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10^-12
χ² / ndf 140.6 / 93
p0 −2.111e−14 ± 1.832e−14
pull
Entries 94
Mean 24.37
Std Dev 23.13
pull1D
Entries 94
Mean 0.1202
Std Dev 1.217

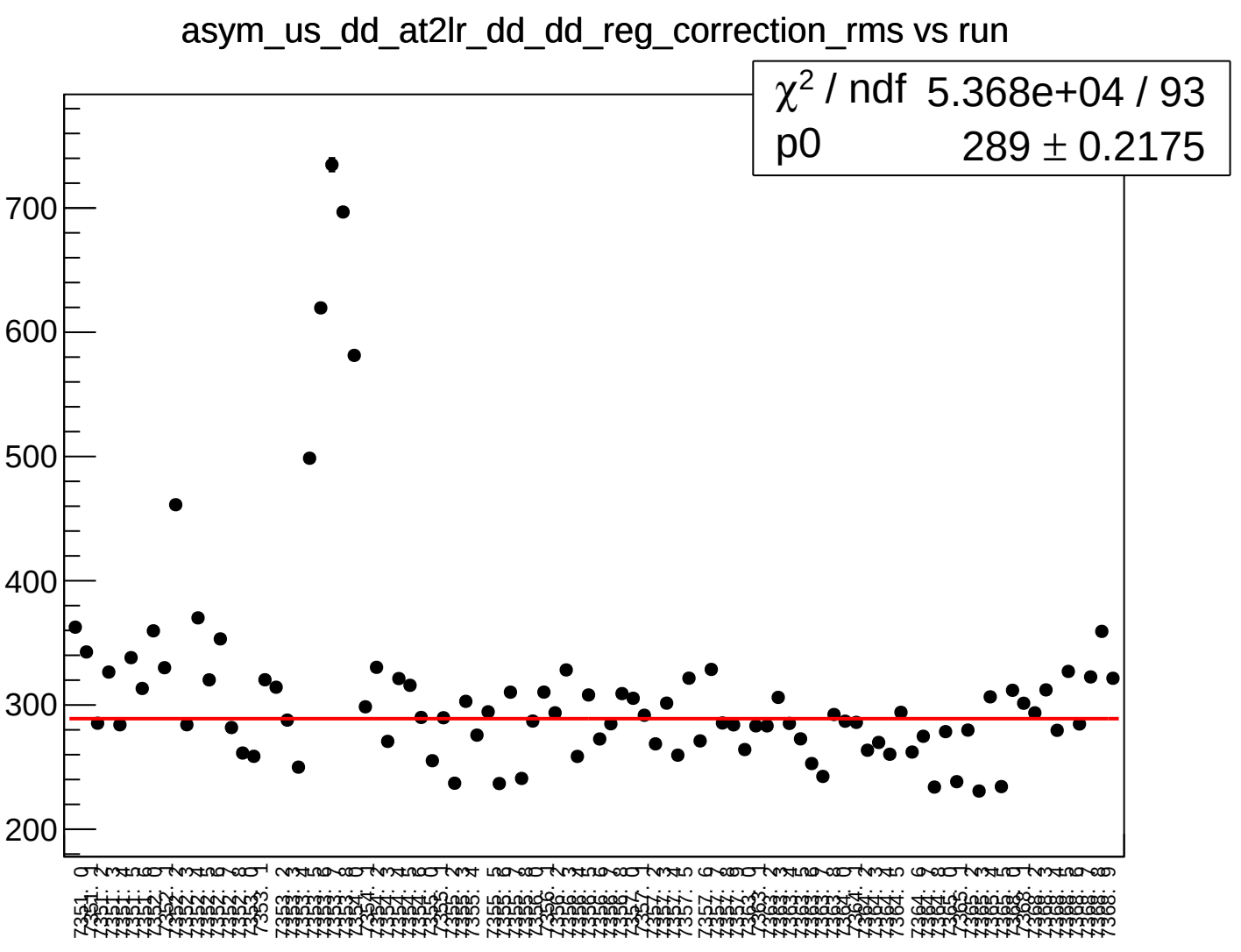

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.777e+05 / 93
p0 1.555e−11 ± 1.296e−14
80
70
60
50
40
30
20
10

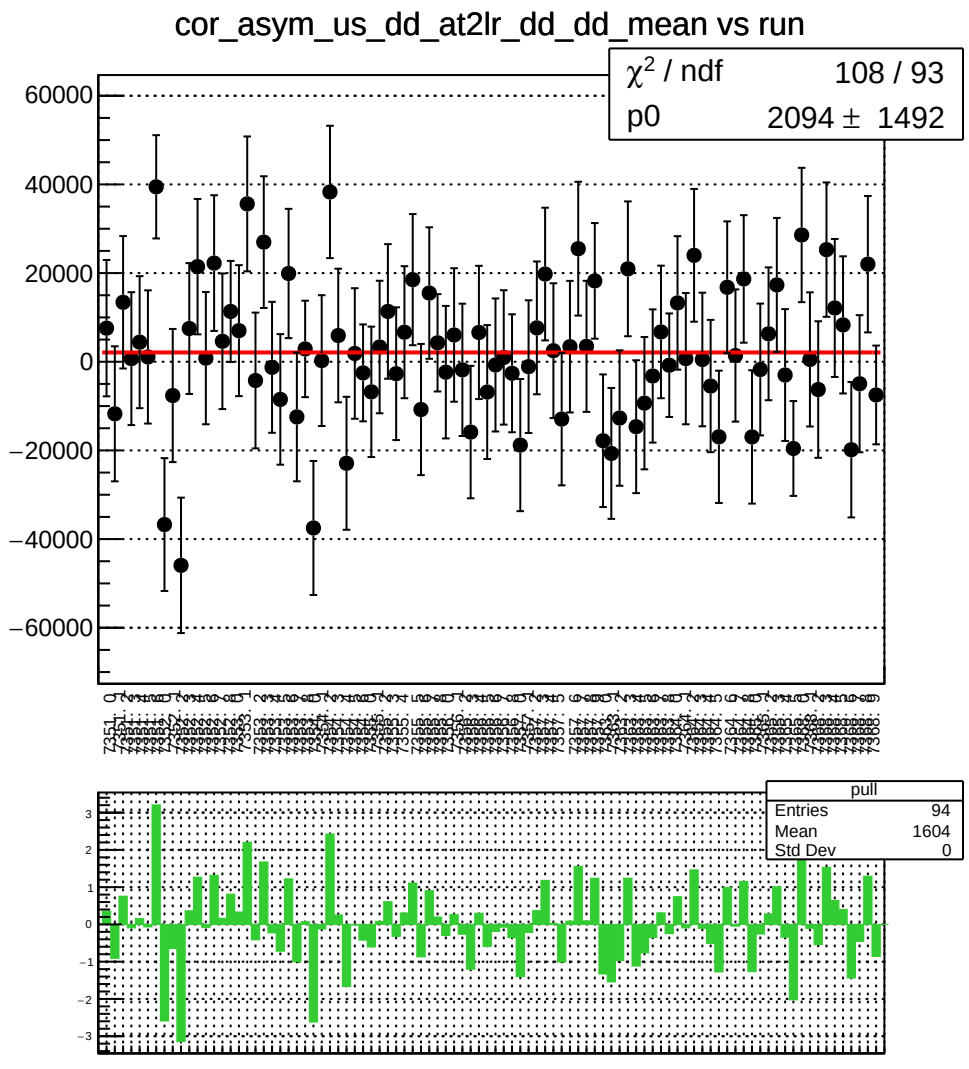

reg_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 108 / 93
p0 2094 ± 1492
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 1607
Std Dev 0
3
2
1
0
−1
−2
−3

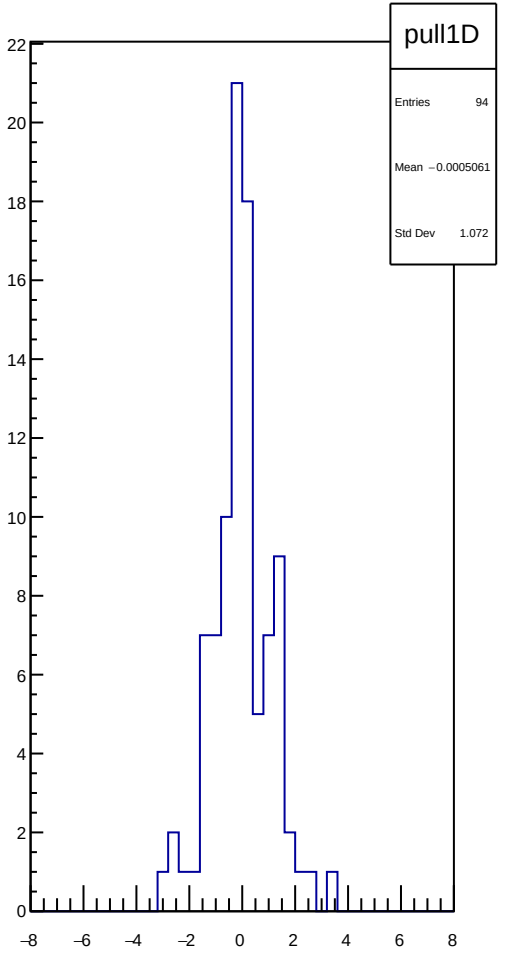

pull1D
Entries 94
Mean −0.0005059
Std Dev 1.072
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

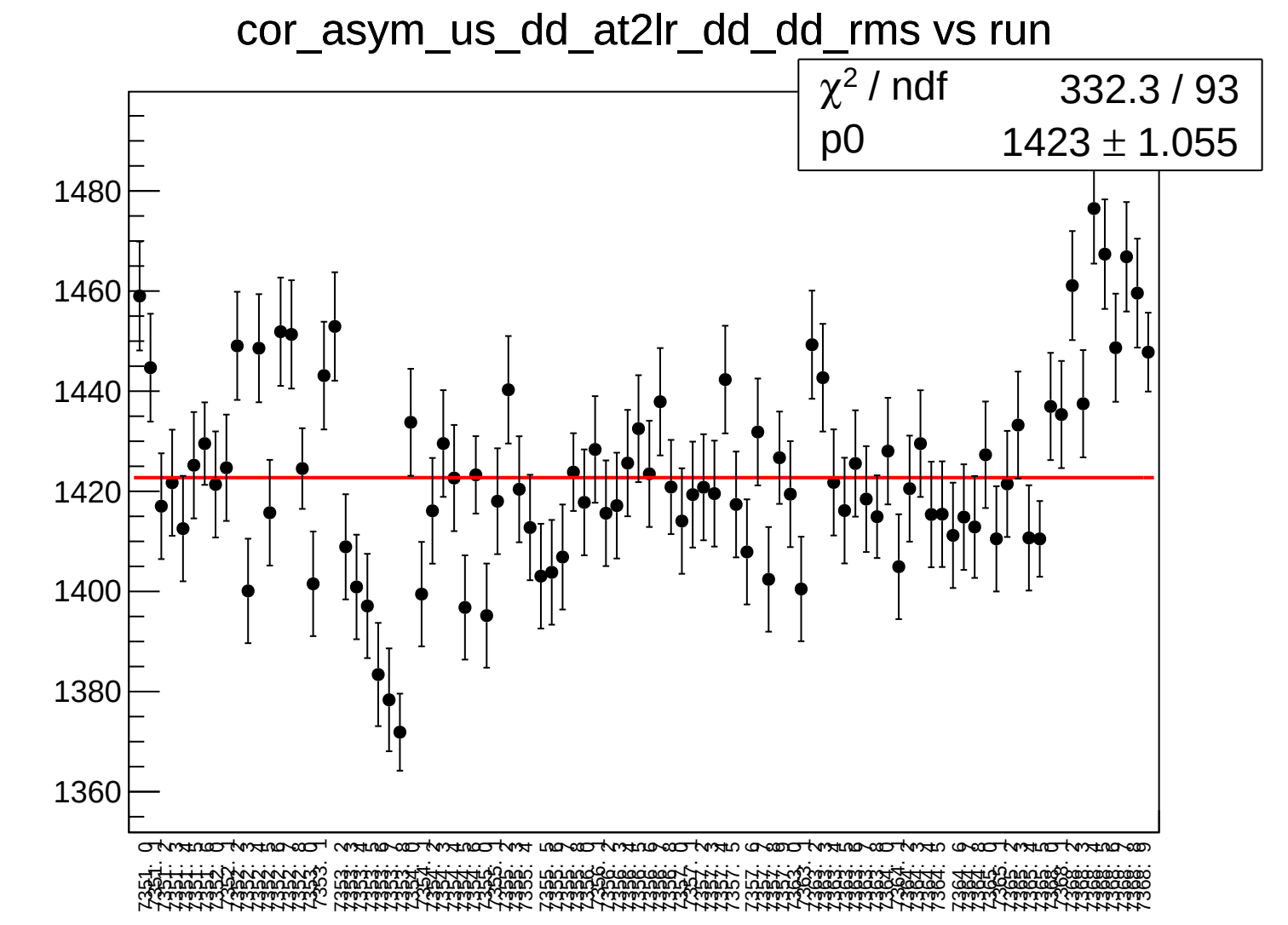

reg_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 332.3 / 93
p0 1423 ± 1.055
1480
1460
1440
1420
1400
1380
1360

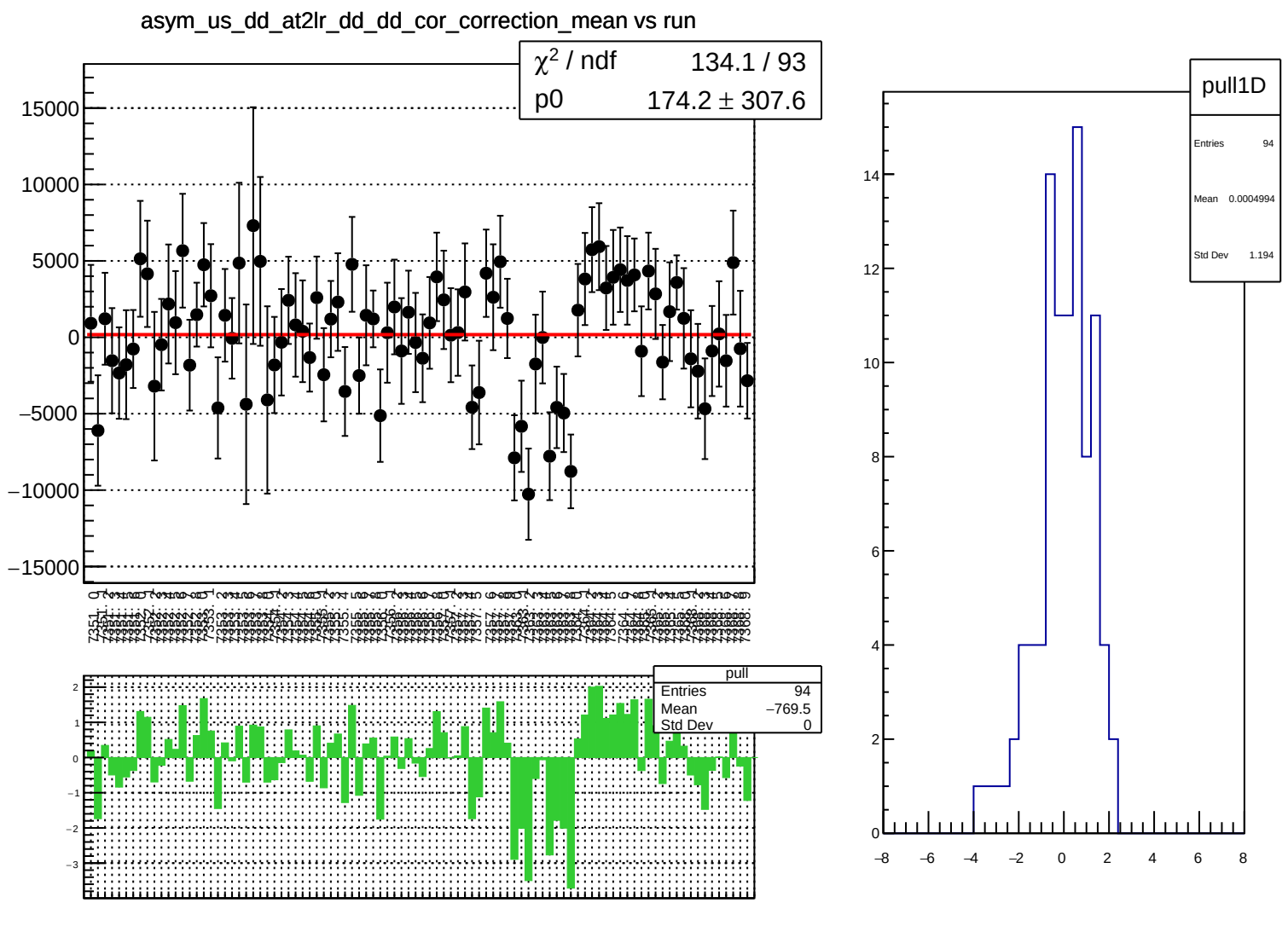

asym_us_dd_at2lr_dd_dd_reg_correction_mean vs run
χ² / ndf 134.1 / 93
p0 173.9 ± 307.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean −744.9
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.000521
Std Dev 1.194
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

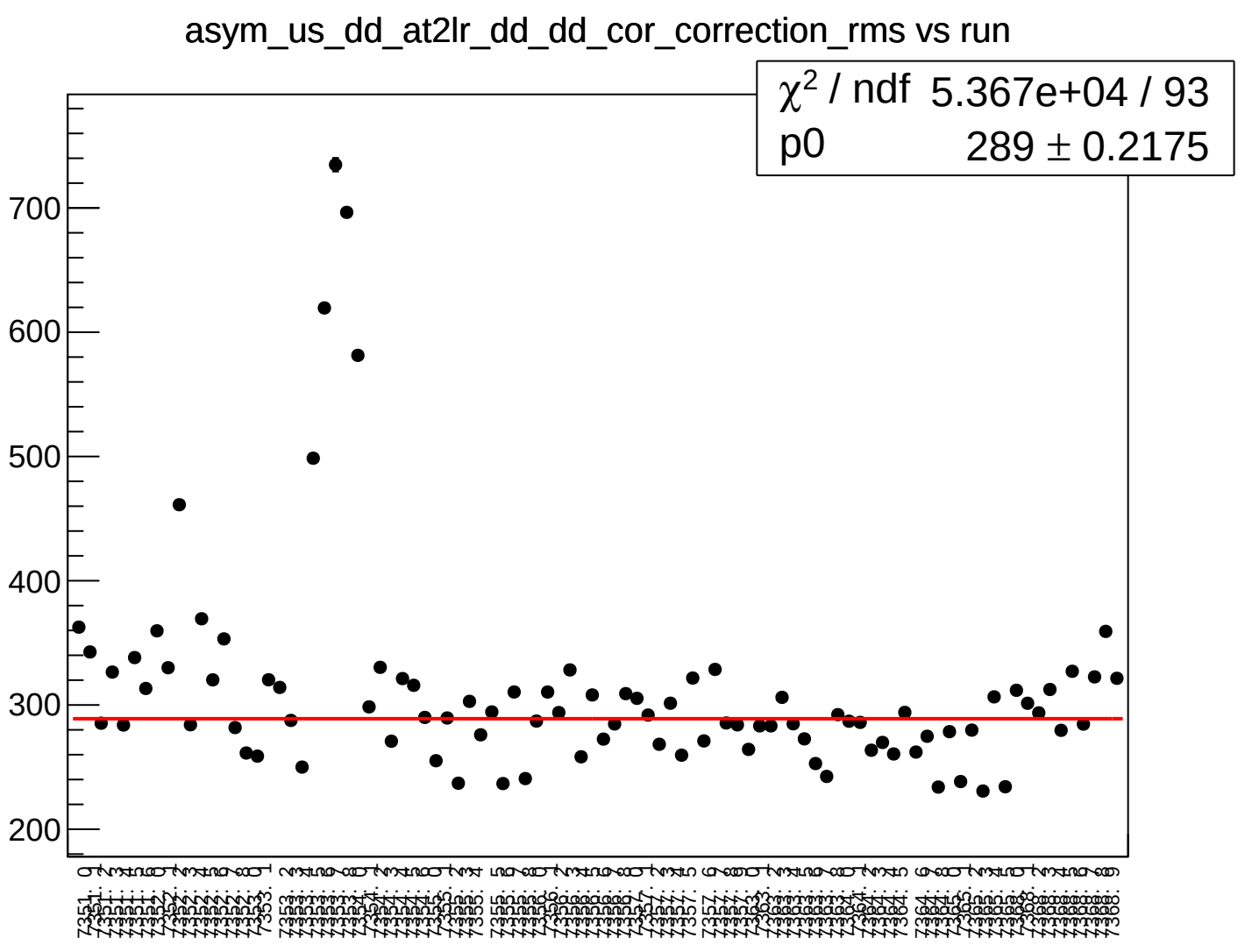

asym_us_dd_at2lr_dd_dd_reg_correction_rms vs run
χ² / ndf 5.368e+04 / 93
p0 289 ± 0.2175
700
600
500
400
300
200

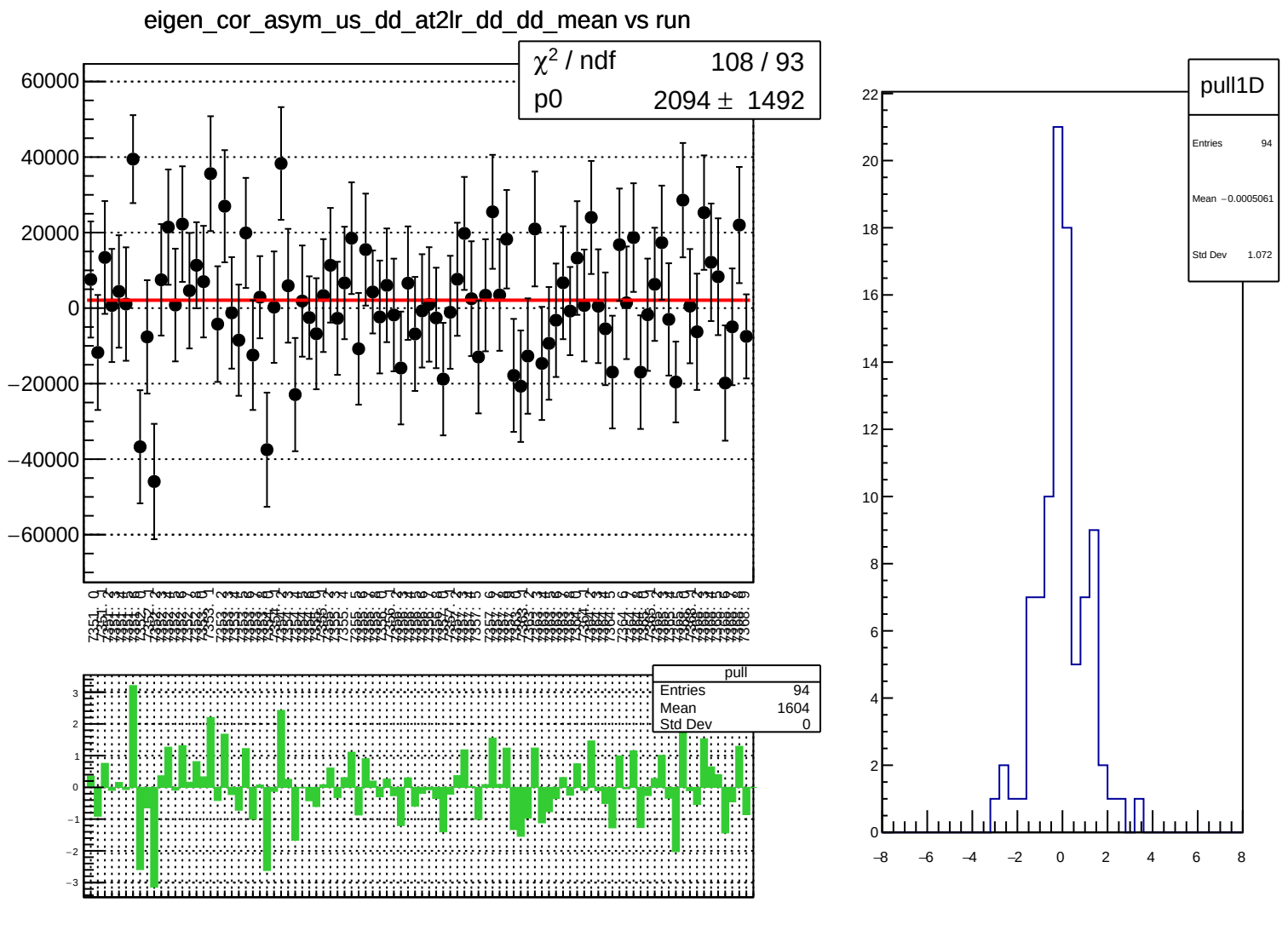

cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 108 / 93
p0 2094 ± 1492
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 1604
Std Dev 0
3
2
1
0
−1
−2
−3

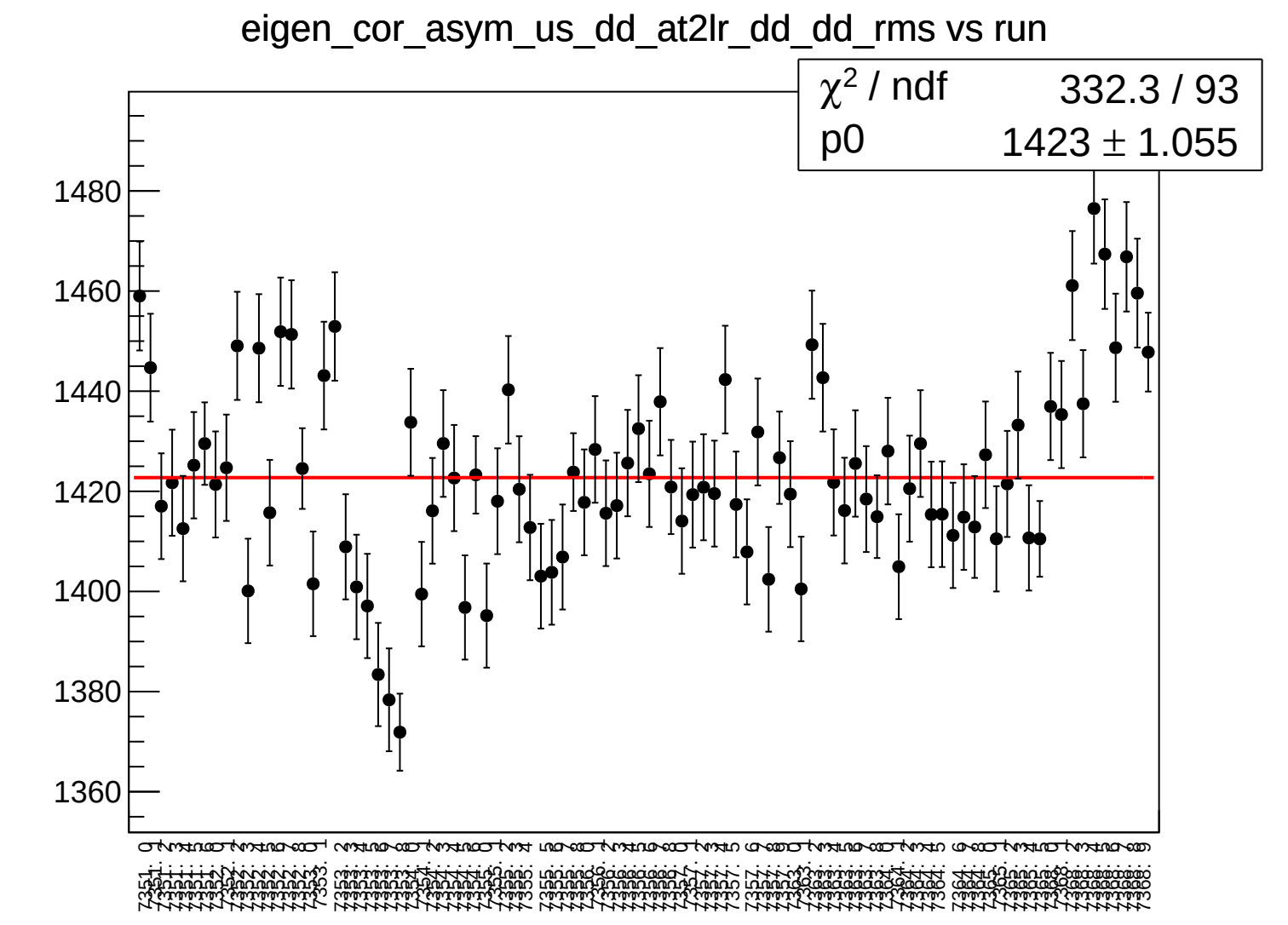

pull1D
Entries 94
Mean −0.0005061
Std Dev 1.072
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

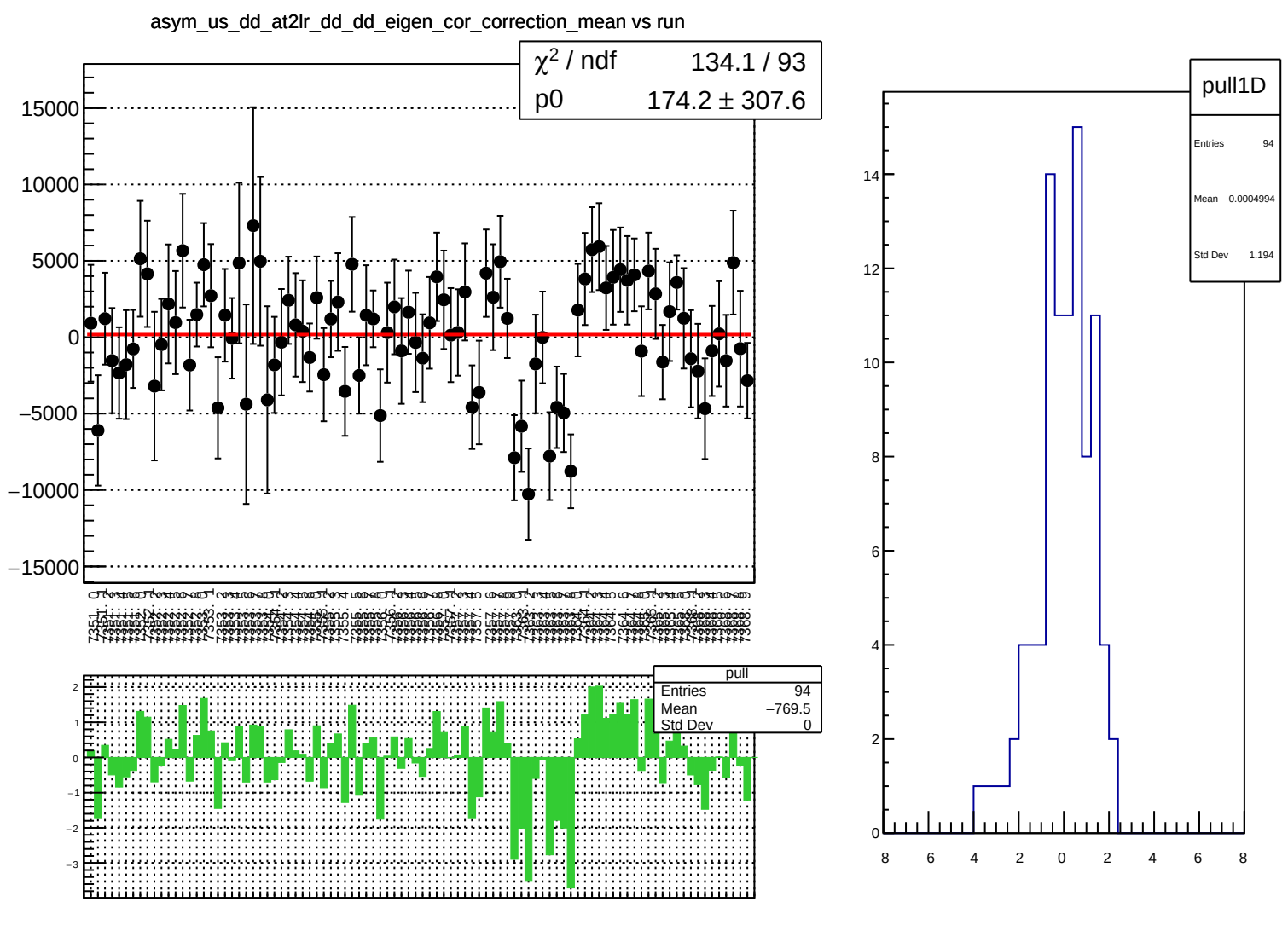

cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 332.3 / 93
p0 1423 ± 1.055
1480
1460
1440
1420
1400
1380
1360

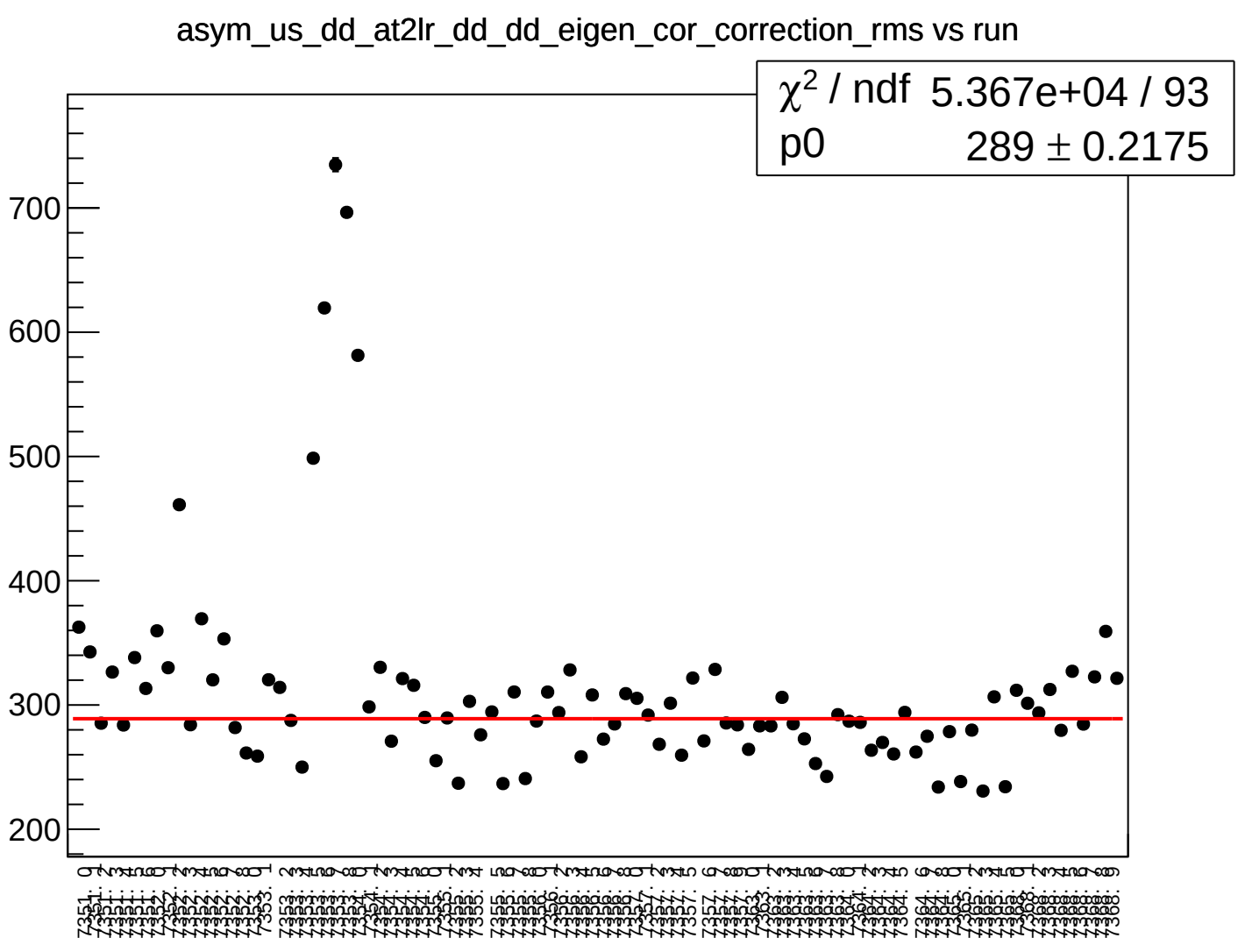

asym_us_dd_at2lr_dd_dd_cor_correction_mean vs run
χ² / ndf 134.1 / 93
p0 174.2 ± 307.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean −769.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.0004994
Std Dev 1.194
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

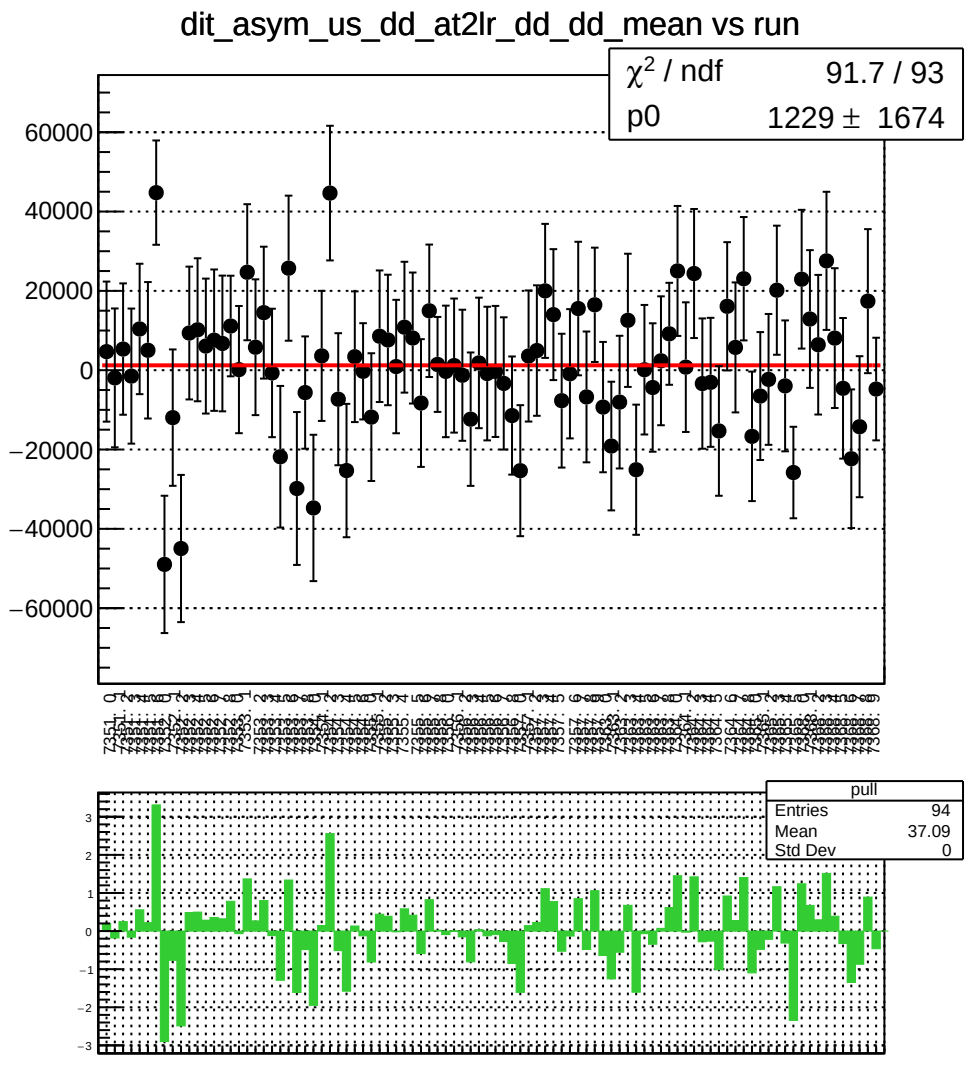

asym_us_dd_at2lr_dd_dd_cor_correction_rms vs run
χ² / ndf 5.367e+04 / 93
p0 289 ± 0.2175
700
600
500
400
300
200

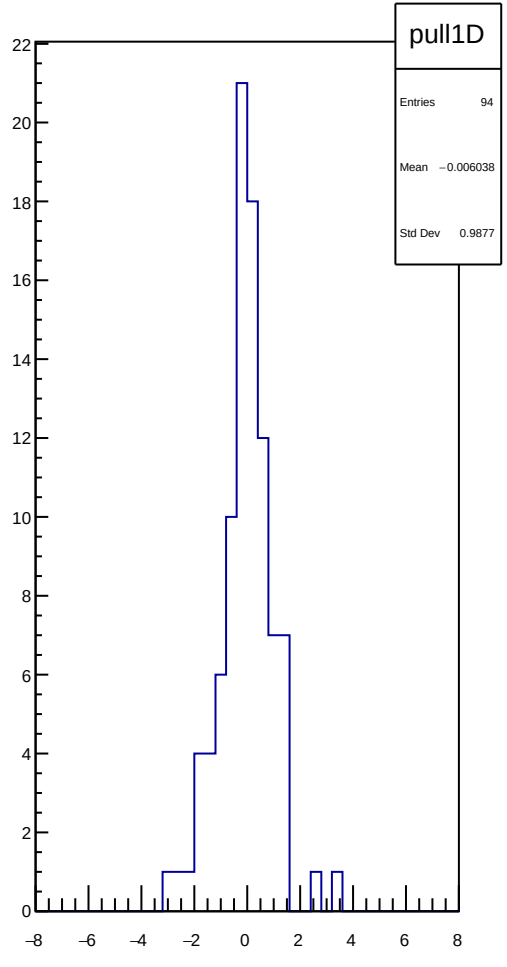

eigen_cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 108 / 93
p0 2094 ± 1492
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 1604
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.0005061
Std Dev 1.072
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

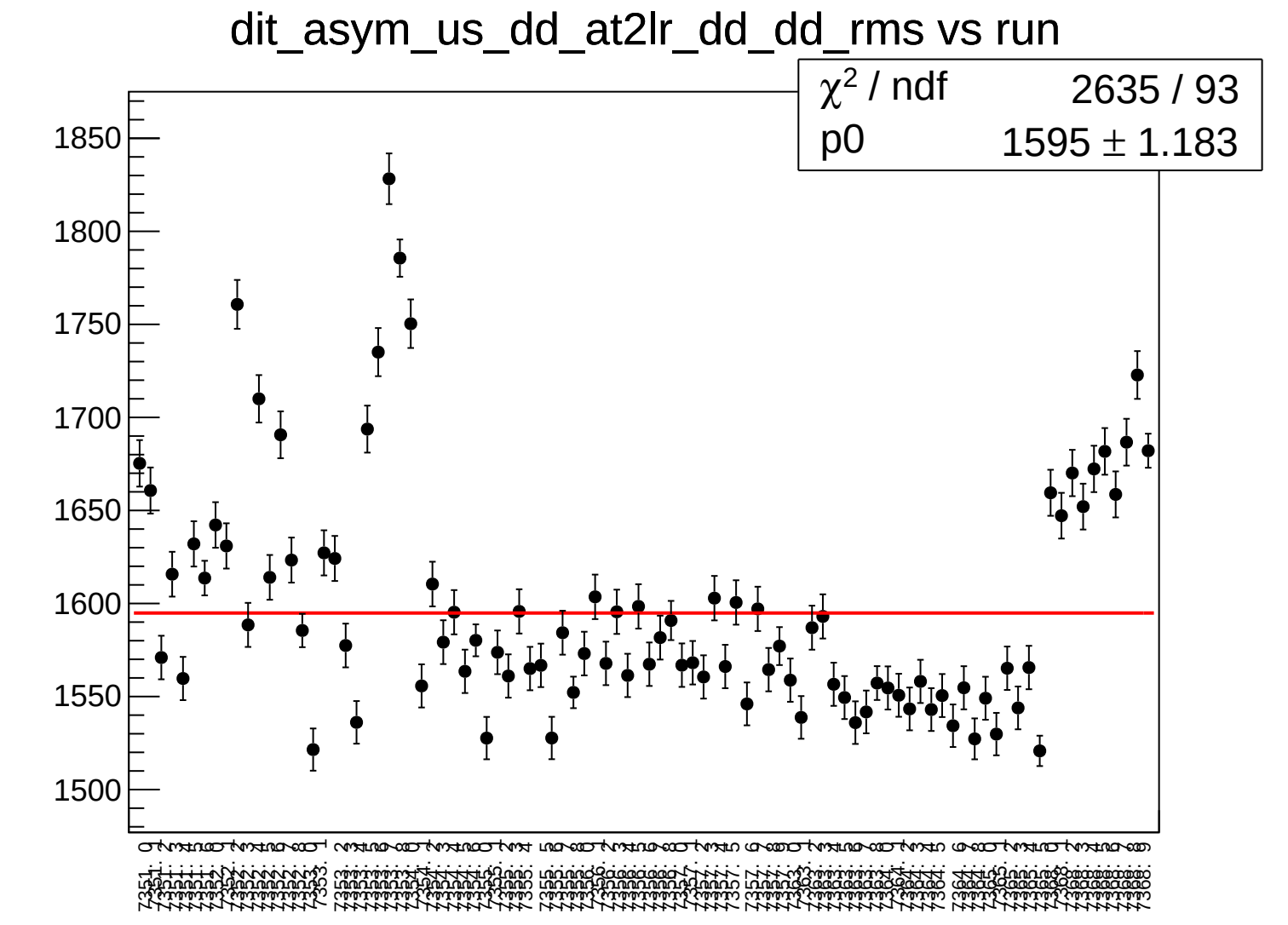

eigen_cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 332.3 / 93
p0 1423 ± 1.055
1480
1460
1440
1420
1400
1380
1360

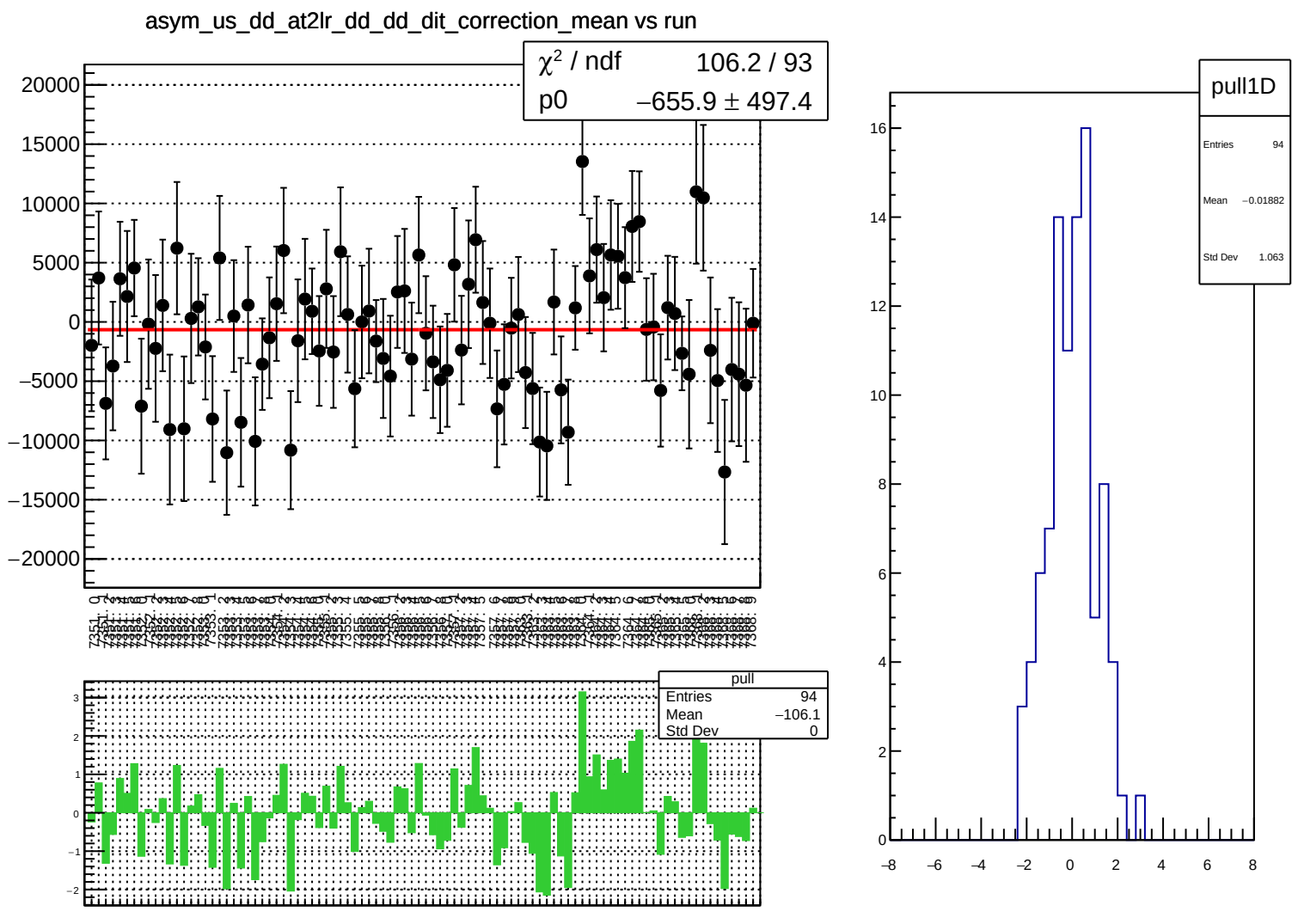

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 134.1 / 93
p0 174.2 ± 307.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean −769.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.0004994
Std Dev 1.194
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

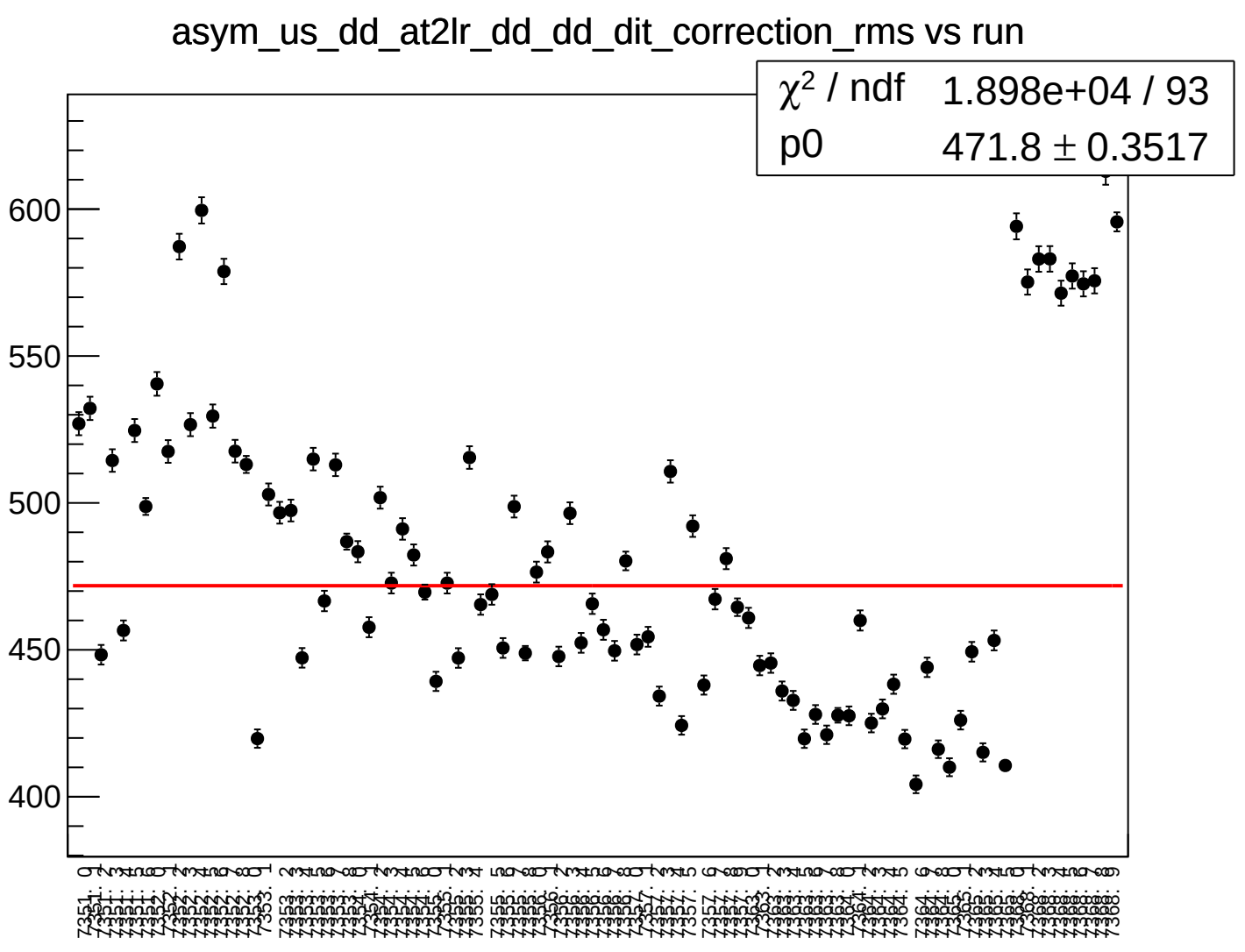

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 5.367e+04 / 93
p0 289 ± 0.2175
700
600
500
400
300
200

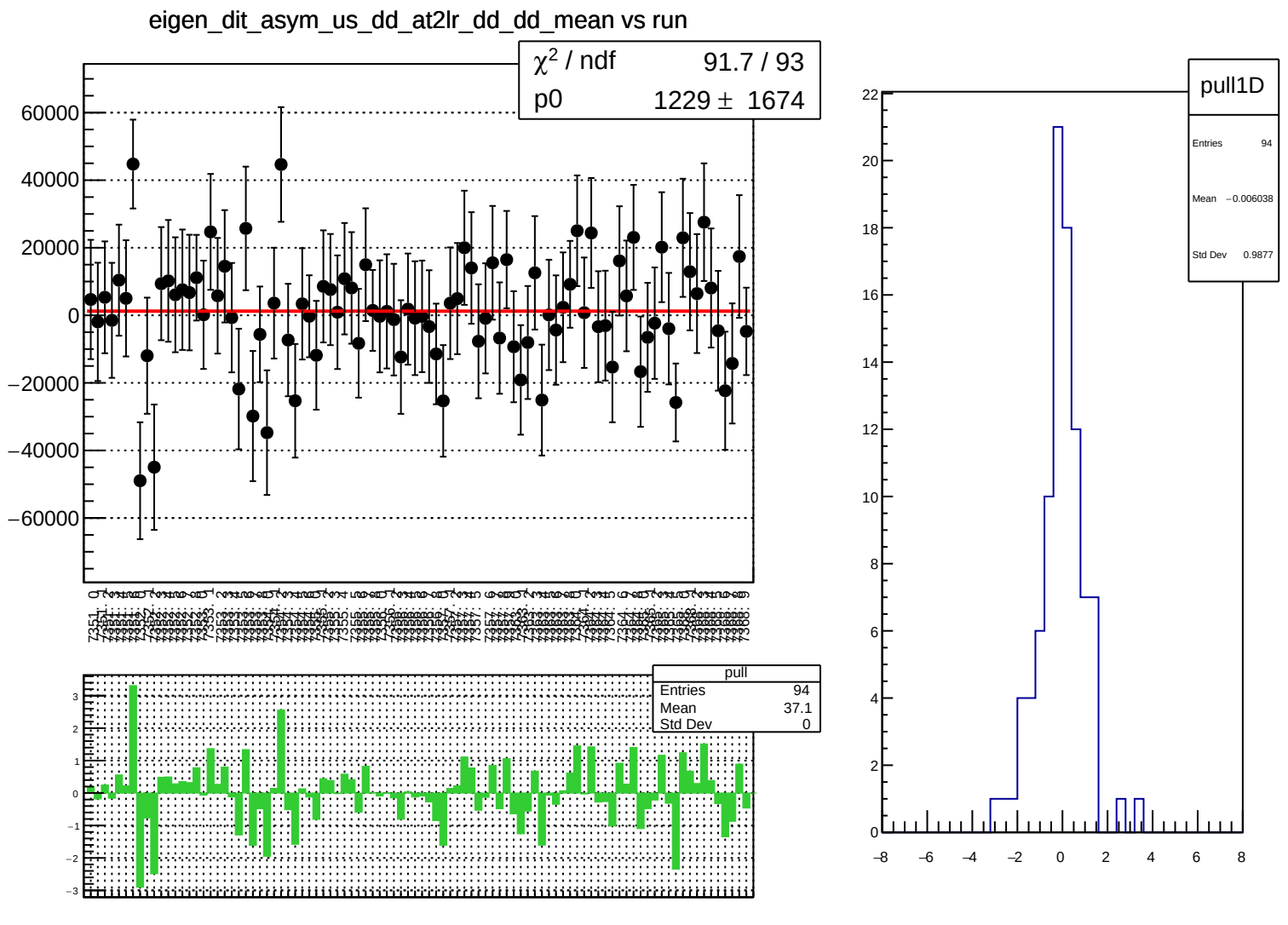

dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 91.7 / 93
p0 1229 ± 1674
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 37.09
Std Dev 0
3
2
1
0
−1
−2
−3

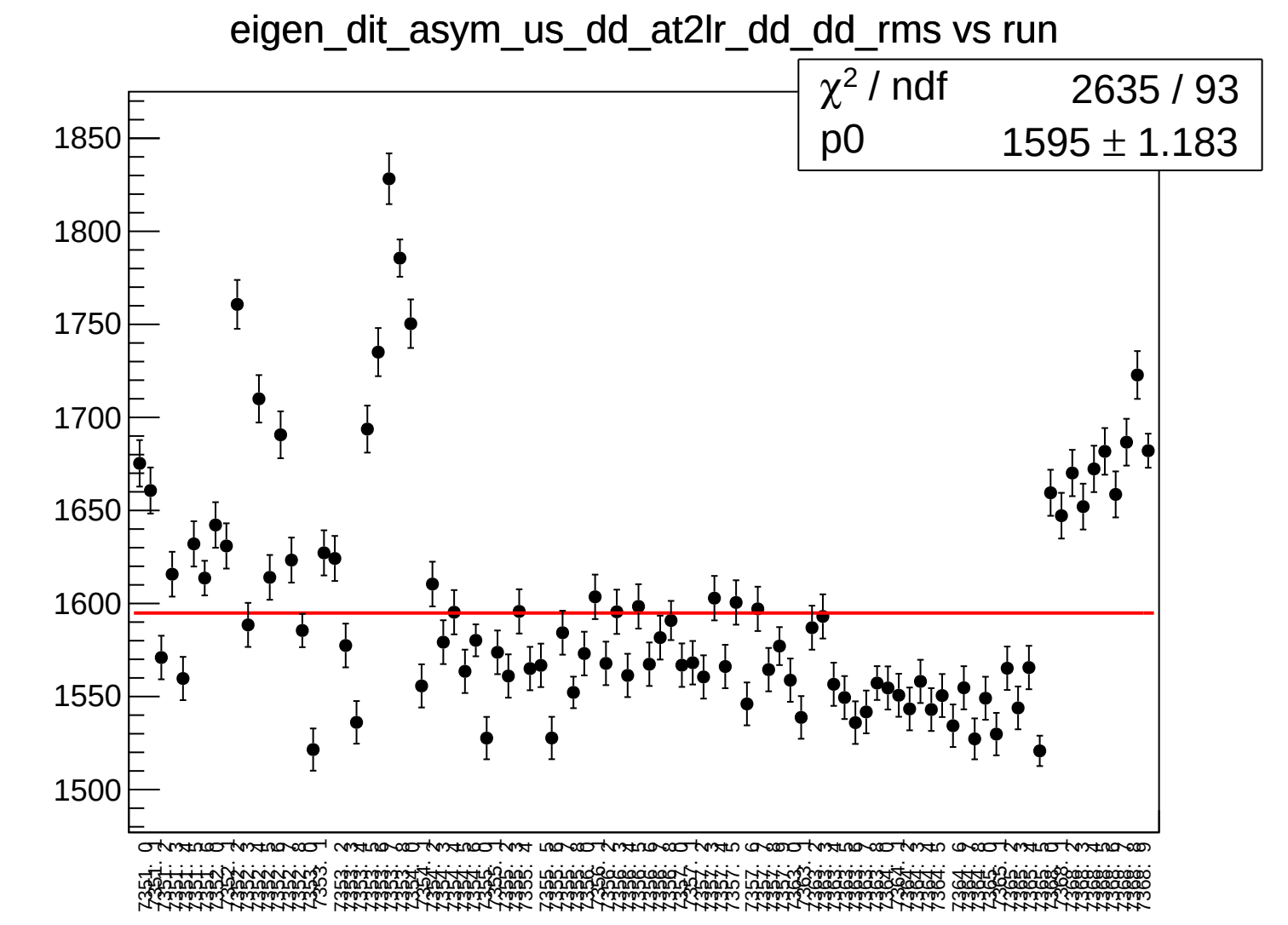

pull1D
Entries 94
Mean −0.006038
Std Dev 0.9877
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

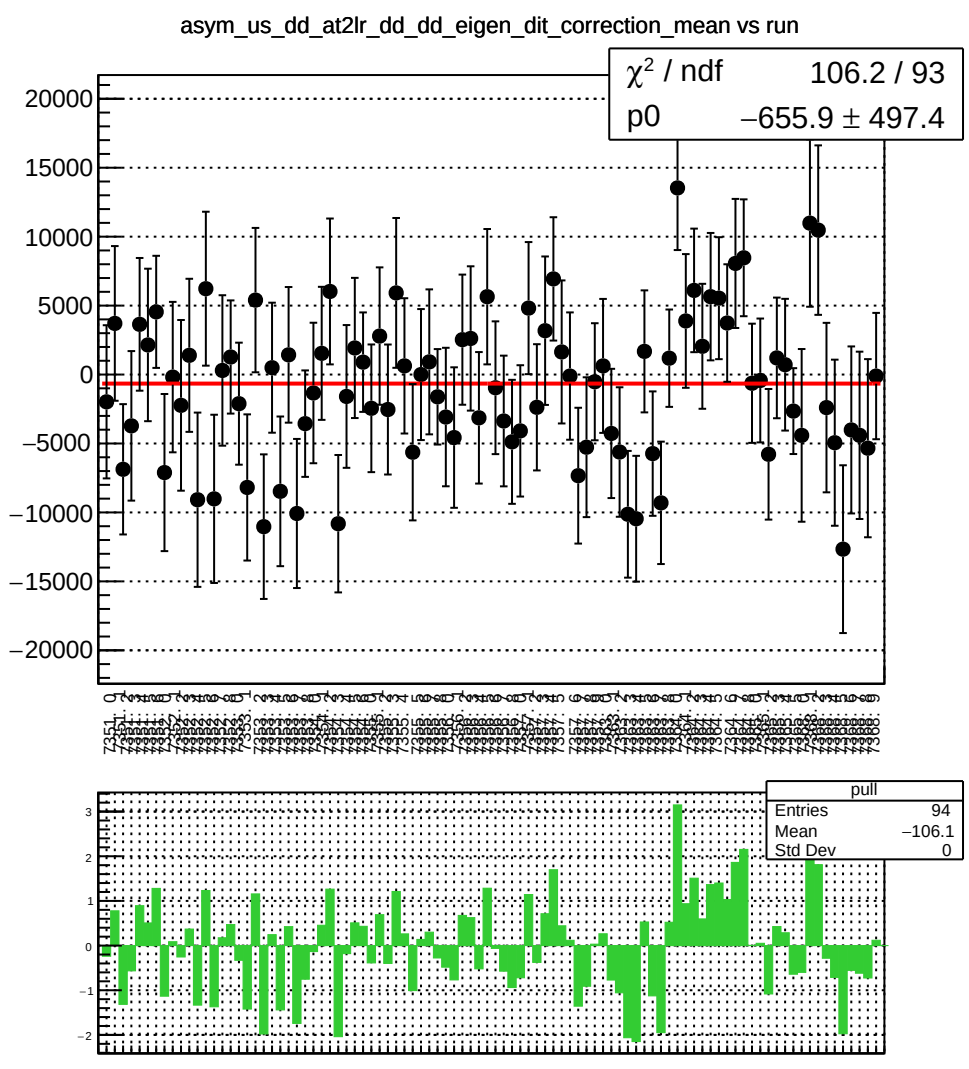

dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 2635 / 93
p0 1595 ± 1.183
1850
1800
1750
1700
1650
1600
1550
1500

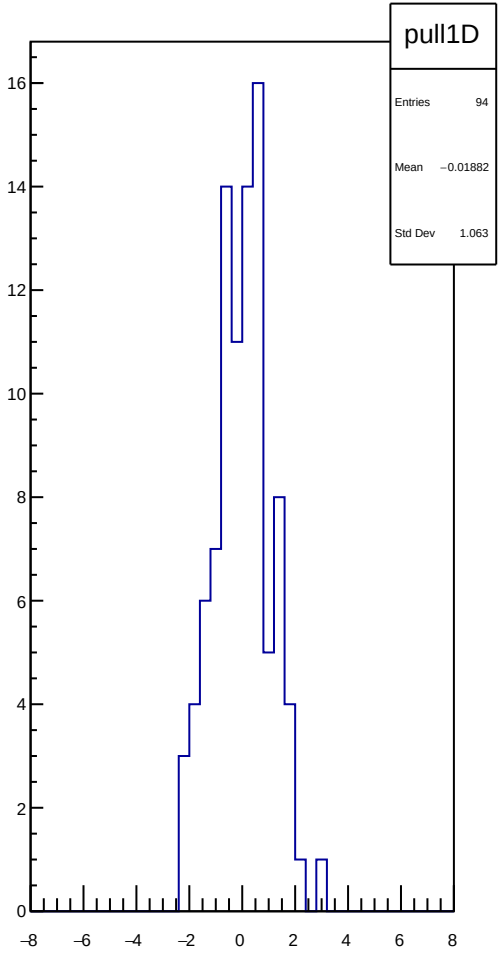

asym_us_dd_at2lr_dd_dd_dit_correction_mean vs run
χ² / ndf 106.2 / 93
p0 −655.9 ± 497.4
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 94
Mean −106.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.01882
Std Dev 1.063
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

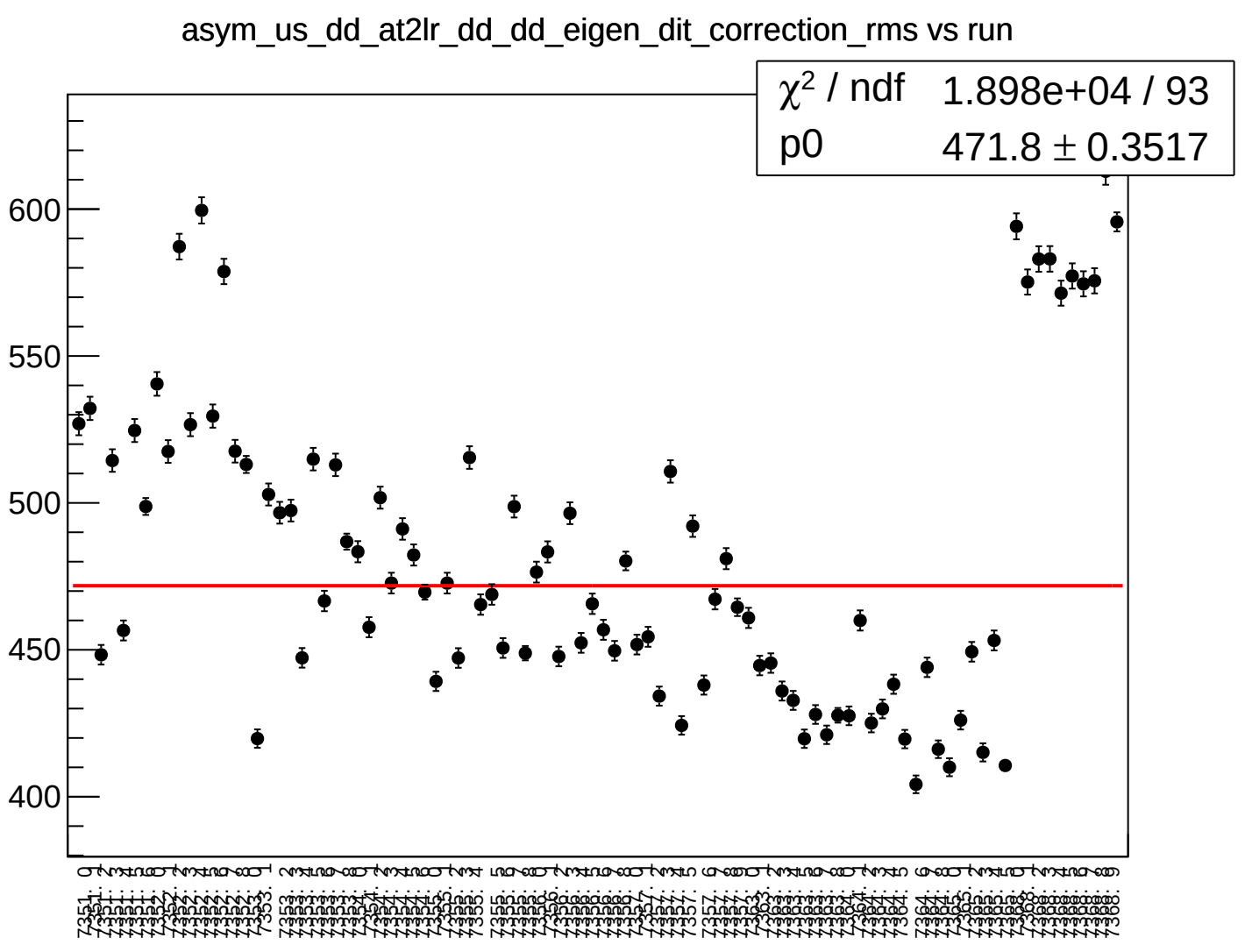

asym_us_dd_at2lr_dd_dd_dit_correction_rms vs run
χ^2 / ndf 1.898e+04 / 93
p0 471.8 ± 0.3517
600
550
500
450
400

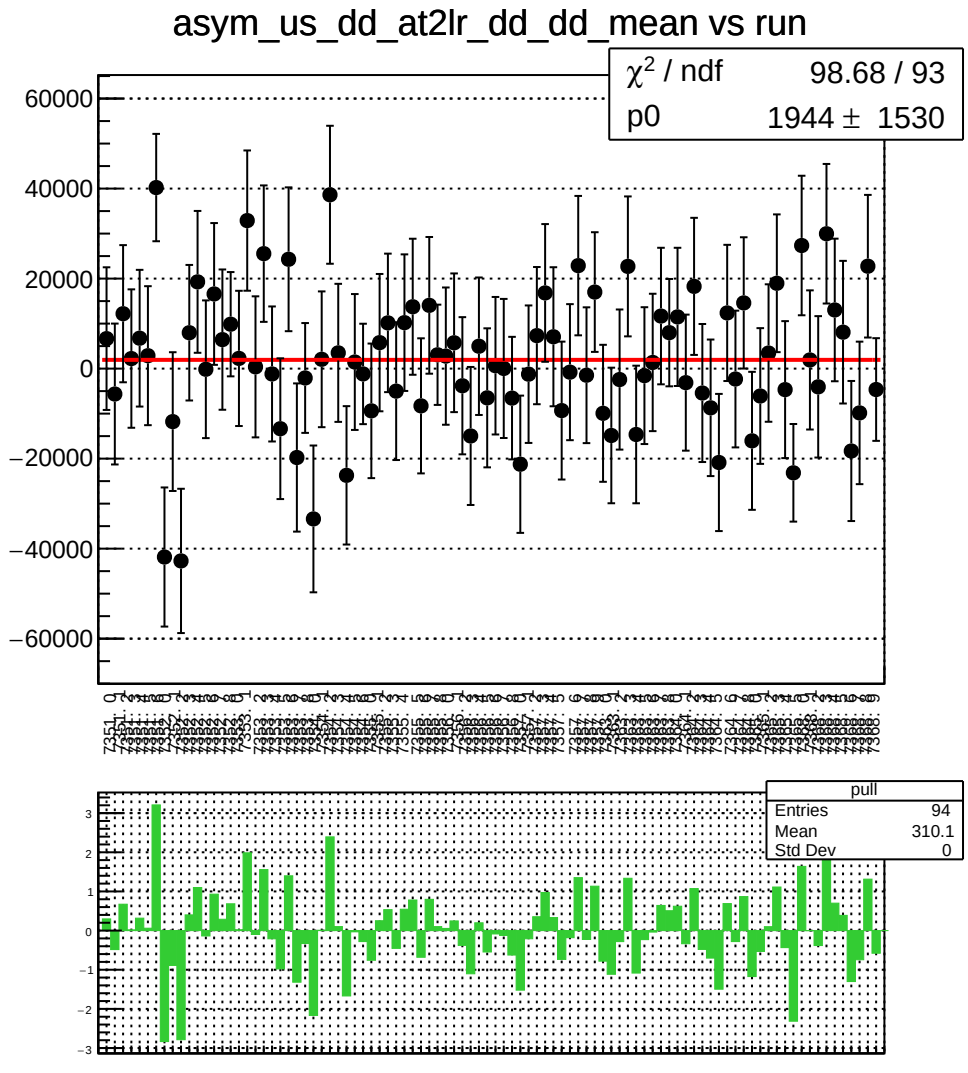

eigen_dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 91.7 / 93
p0 1229 ± 1674
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 37.1
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.006038
Std Dev 0.9877
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

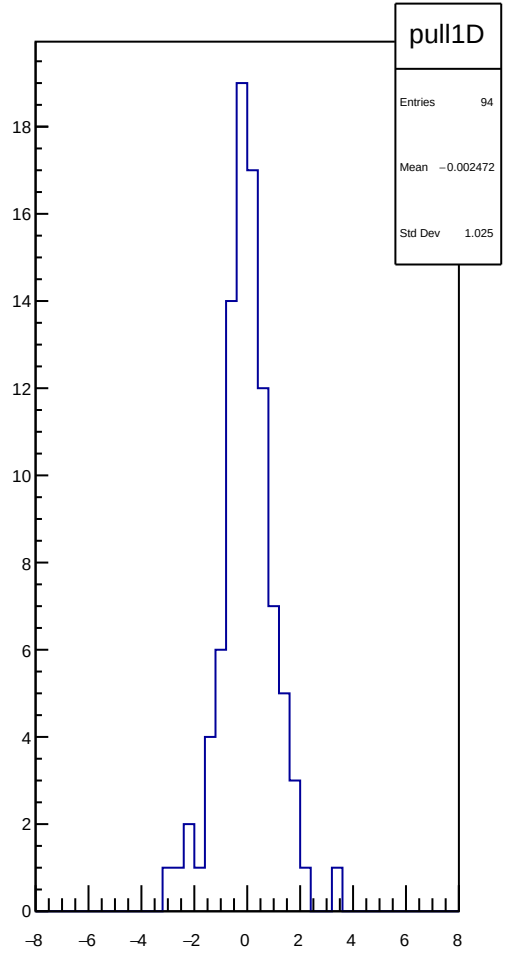

eigen_dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 2635 / 93
p0 1595 ± 1.183
1850
1800
1750
1700
1650
1600
1550
1500

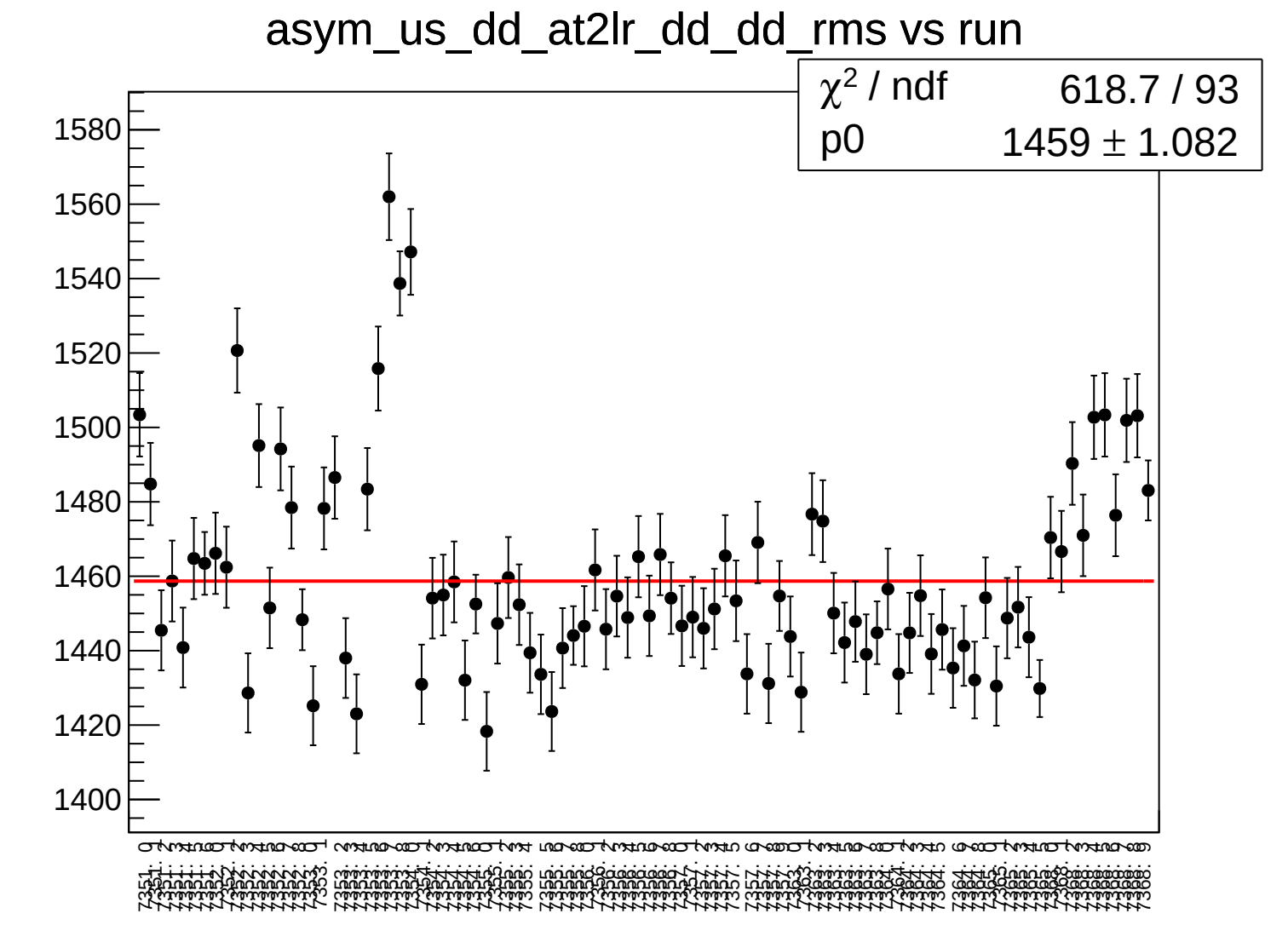

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 106.2 / 93
p0 −655.9 ± 497.4
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 94
Mean −106.1
Std Dev 0
3
2
1
0
−1
−2

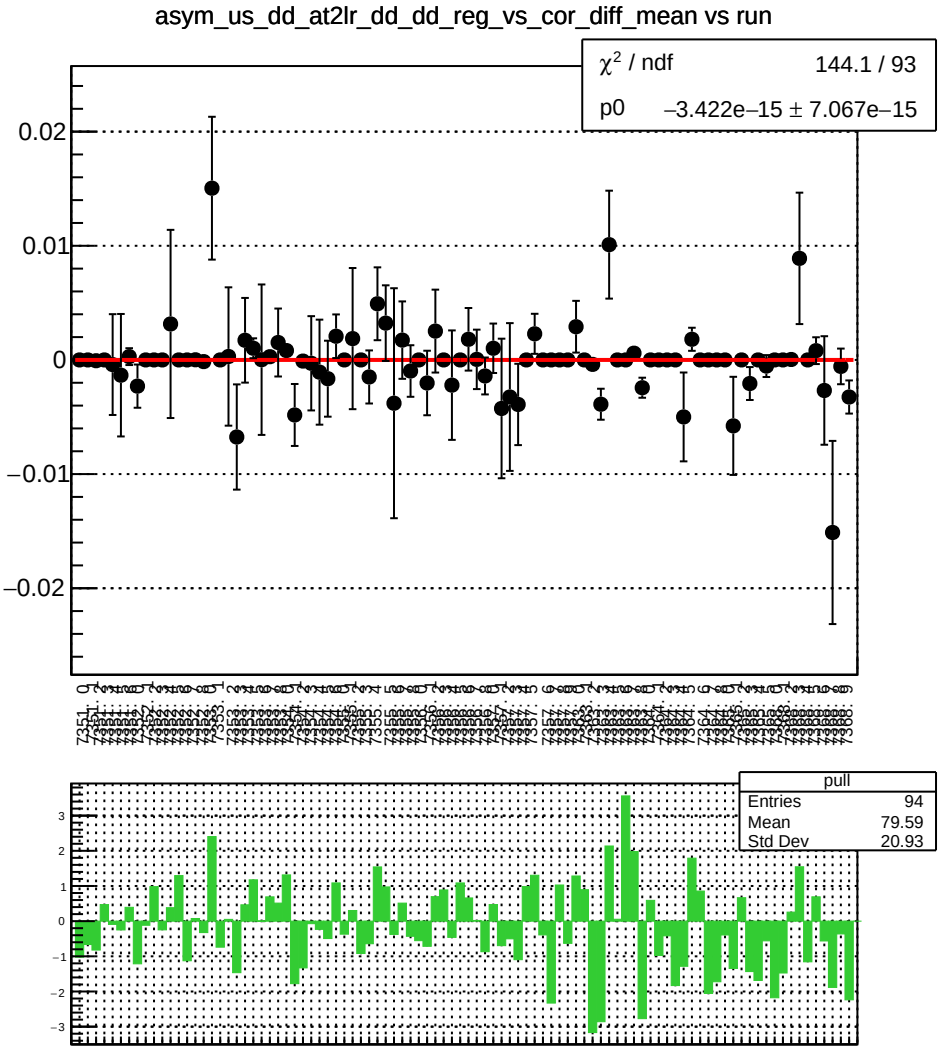

pull1D
Entries 94
Mean −0.01882
Std Dev 1.063
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

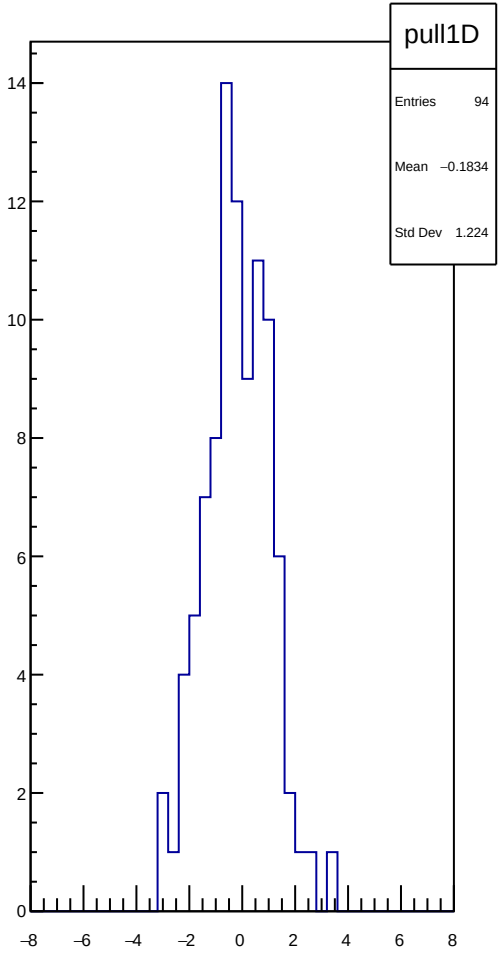

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.898e+04 / 93
p0 471.8 ± 0.3517
600
550
500
450
400

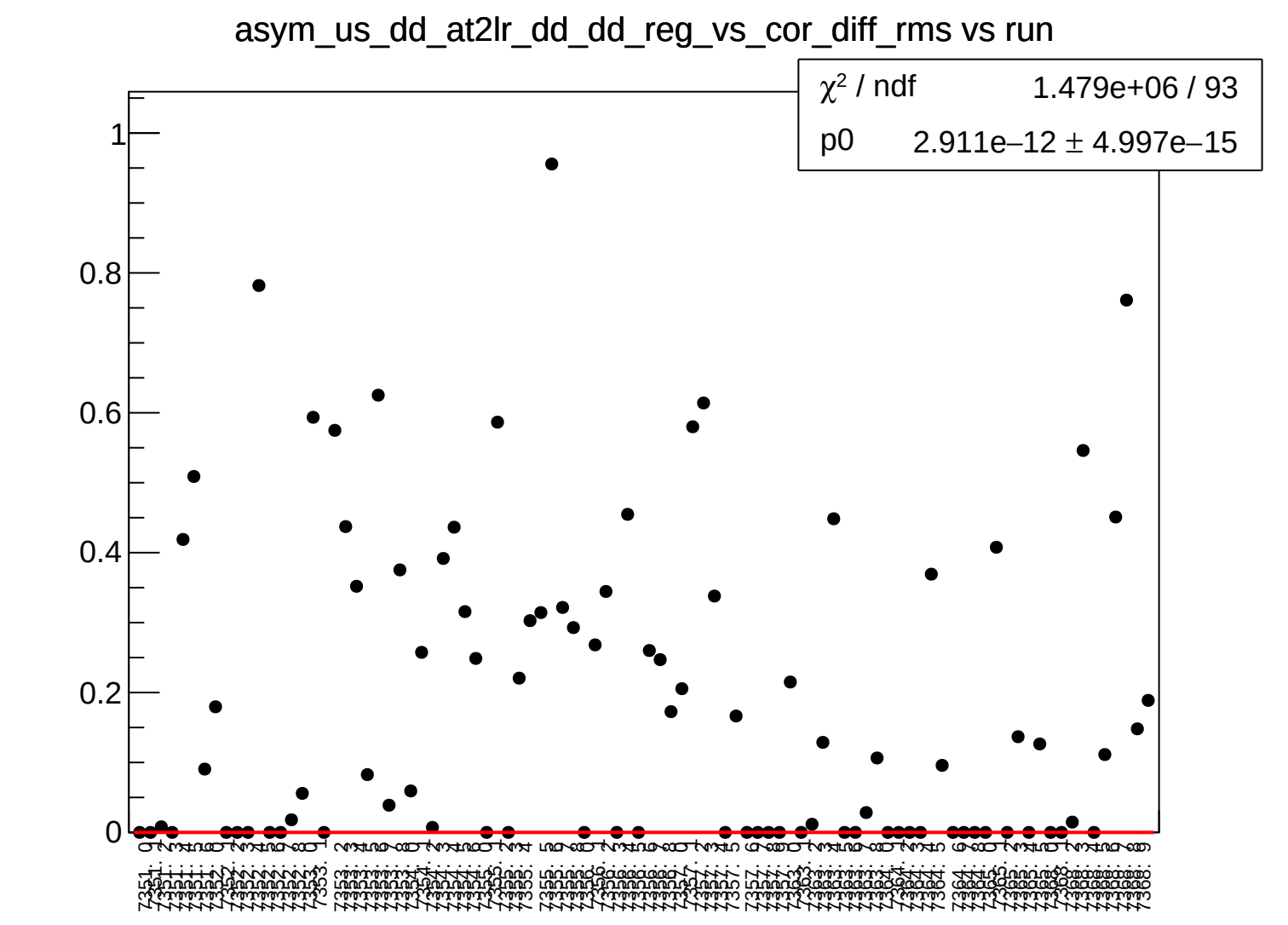

asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 98.68 / 93
p0 1944 ± 1530
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 310.1
Std Dev 0
3
2
1
0
−1
−2
−3

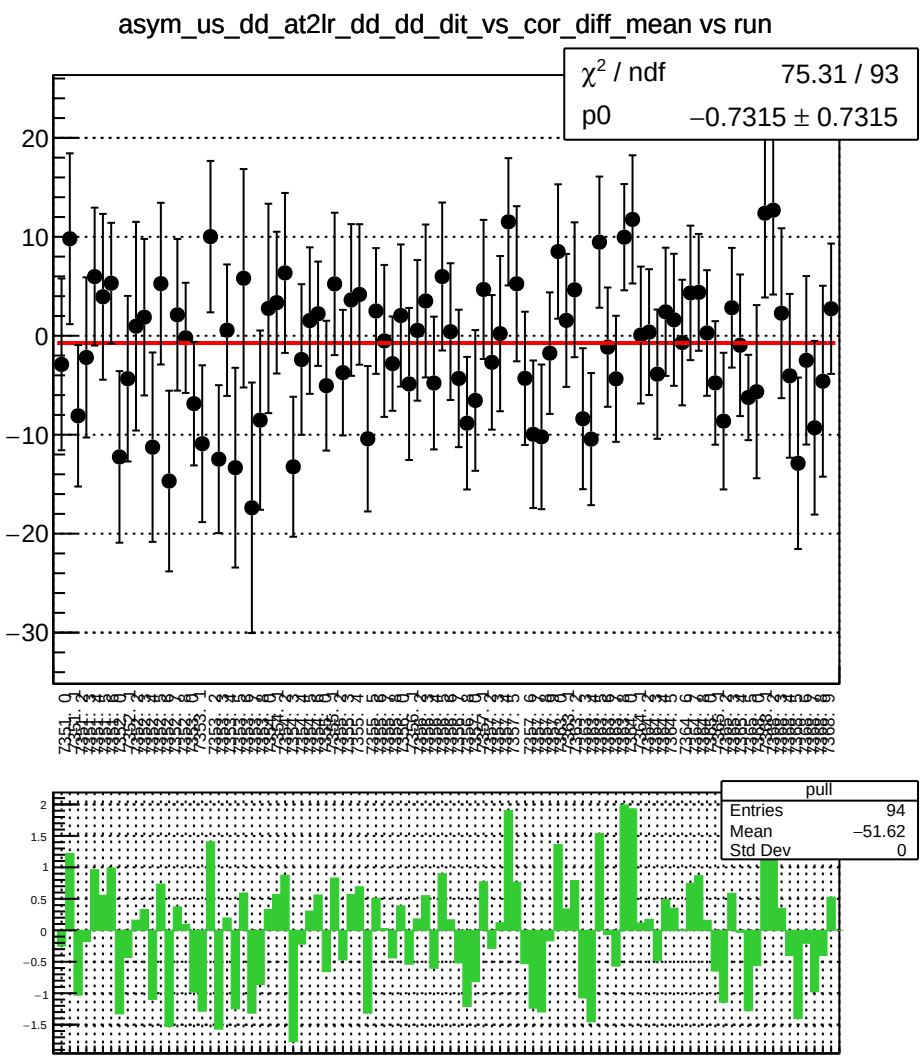

pull1D
Entries 94
Mean −0.002472
Std Dev 1.025
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

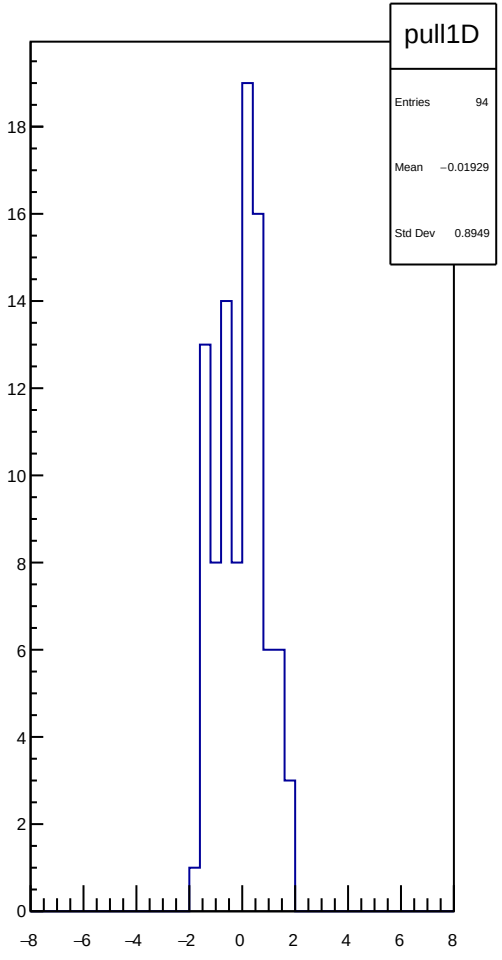

asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 618.7 / 93
p0 1459 ± 1.082
1580
1560
1540
1520
1500
1480
1460
1440
1420
1400

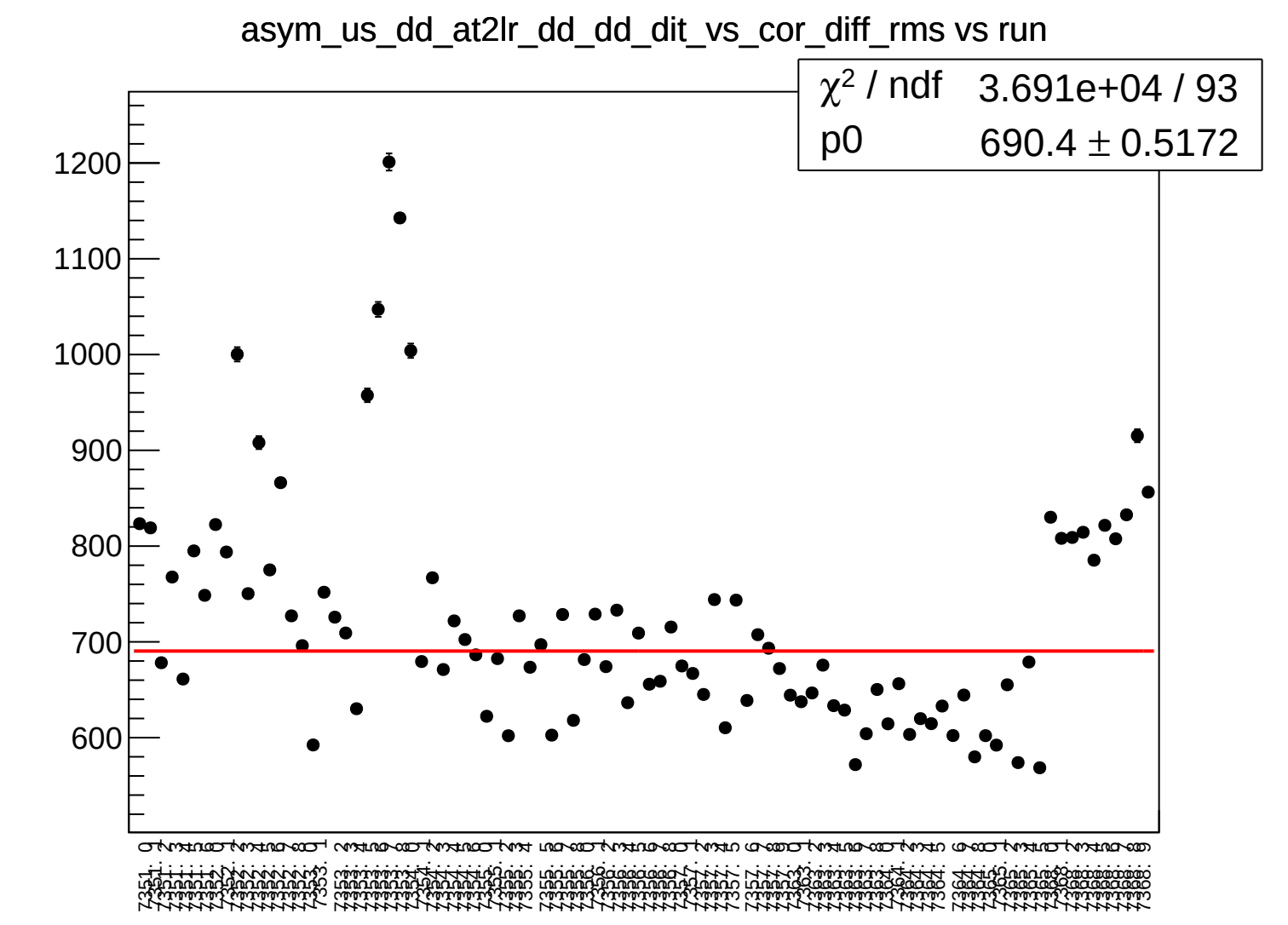

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 144.1 / 93
p0 −3.422e−15 ± 7.067e−15
0.02
0.01
0
−0.01
−0.02
pull
Entries 94
Mean 79.59
Std Dev 20.93
3
2
1
0
−1
−2
−3

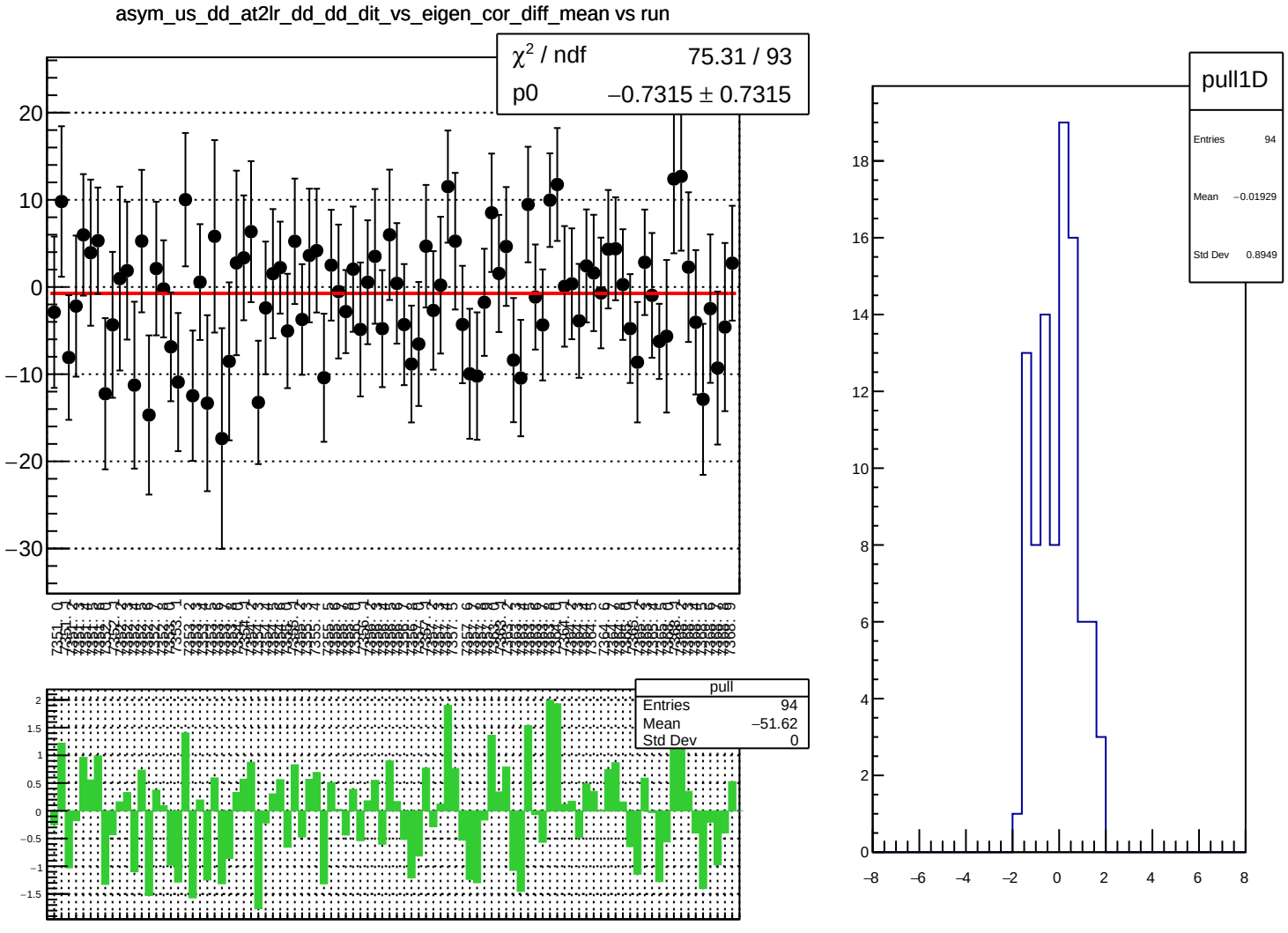

pull1D
Entries 94
Mean −0.1834
Std Dev 1.224
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

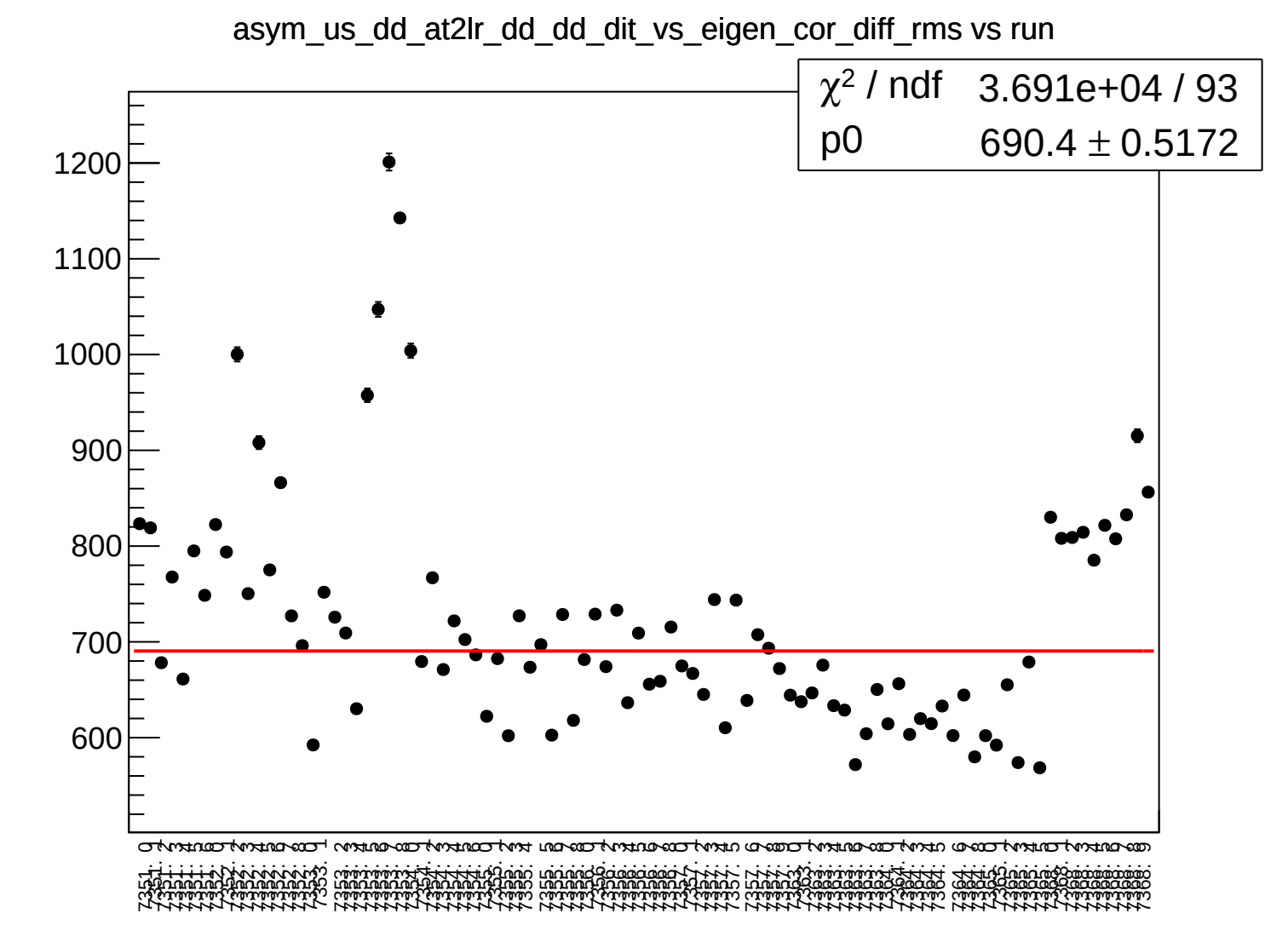

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.479e+06 / 93
p0 2.911e−12 ± 4.997e−15
1
0.8
0.6
0.4
0.2
0

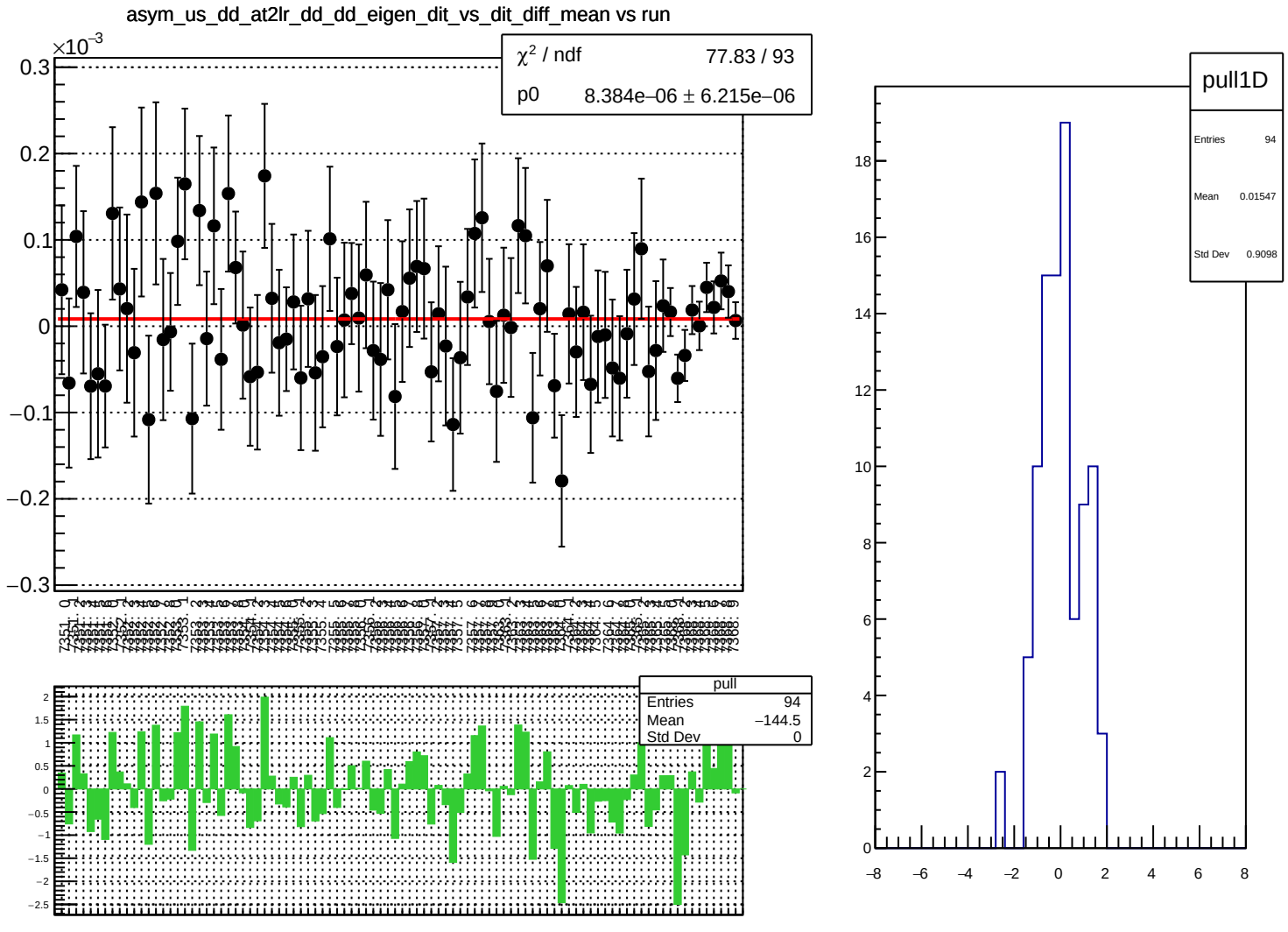

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 75.31 / 93
p0 −0.7315 ± 0.7315
pull
Entries 94
Mean −51.62
Std Dev 0

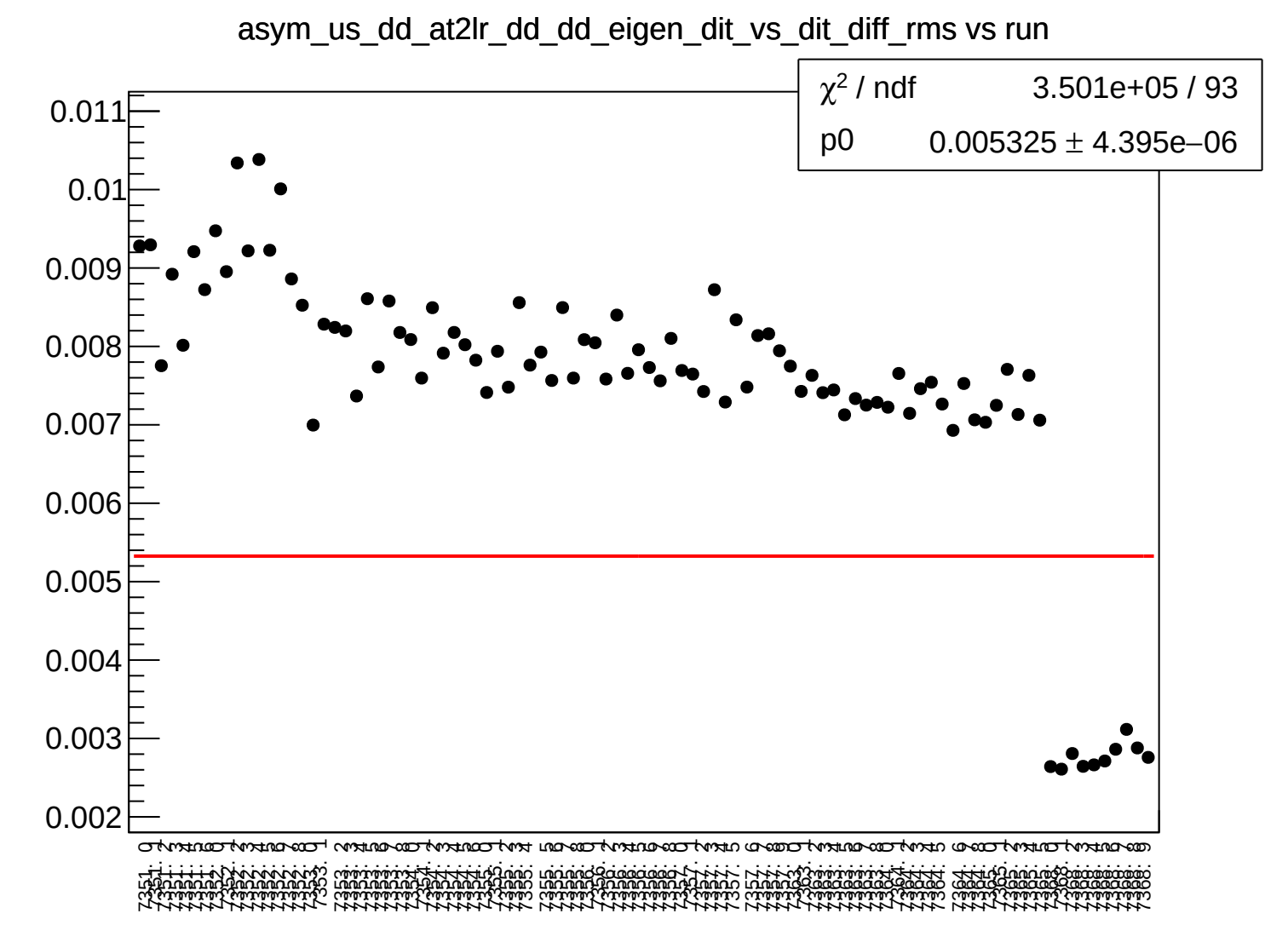

pull1D
Entries 94
Mean −0.01929
Std Dev 0.8949

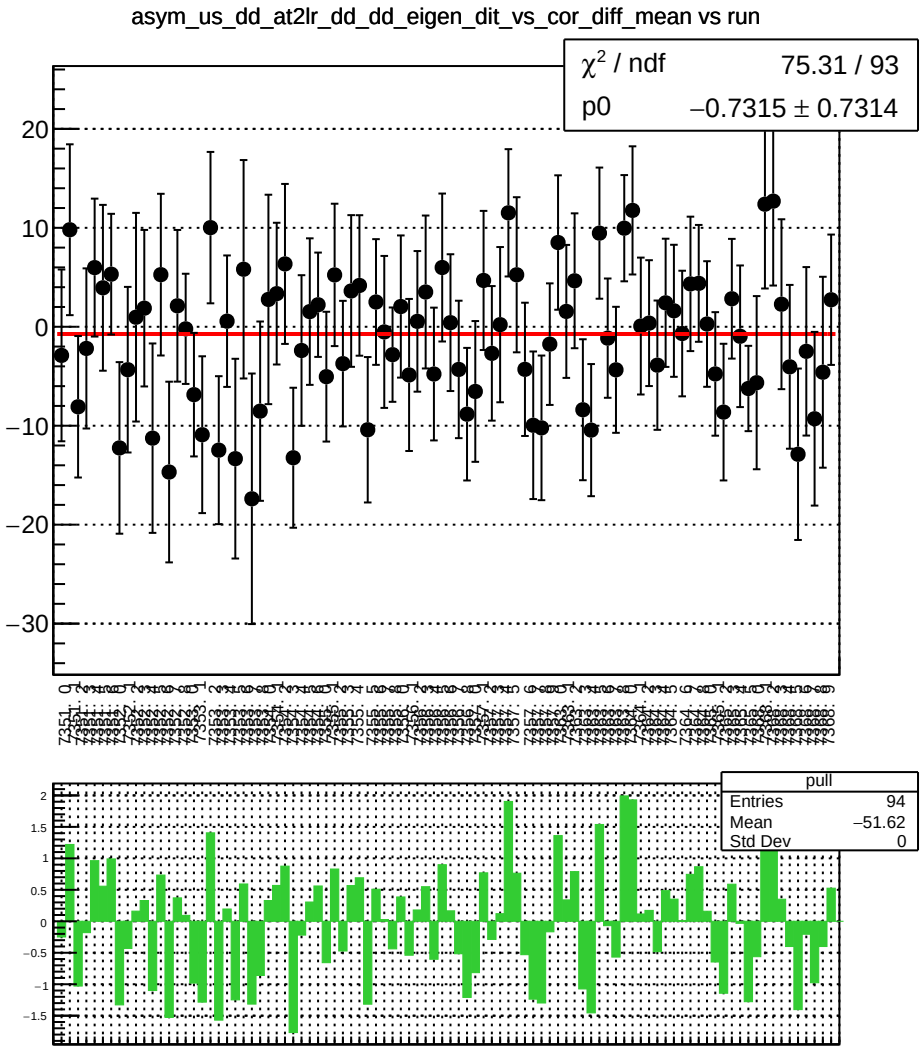

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.691e+04 / 93
p0 690.4 ± 0.5172
1200
1100
1000
900
800
700
600

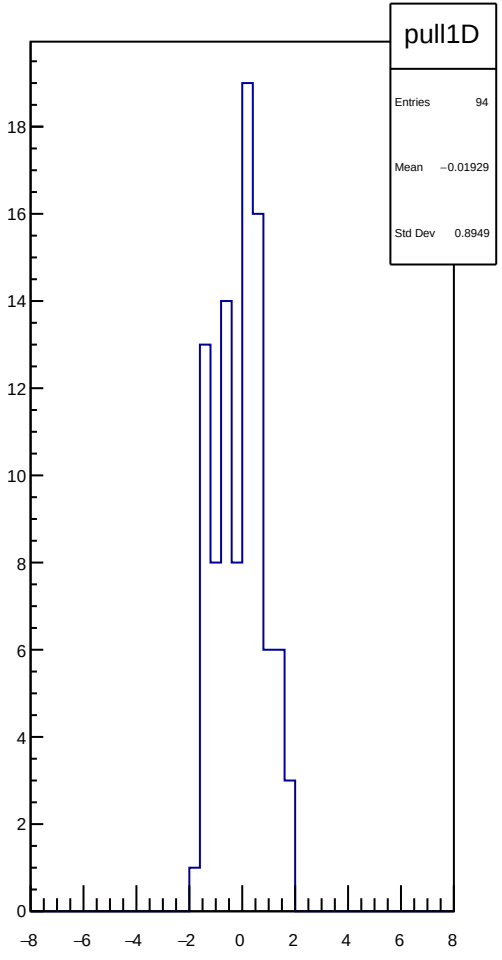

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.31 / 93
p0 −0.7315 ± 0.7315
pull
Entries 94
Mean −51.62
Std Dev 0
pull1D
Entries 94
Mean −0.01929
Std Dev 0.8949

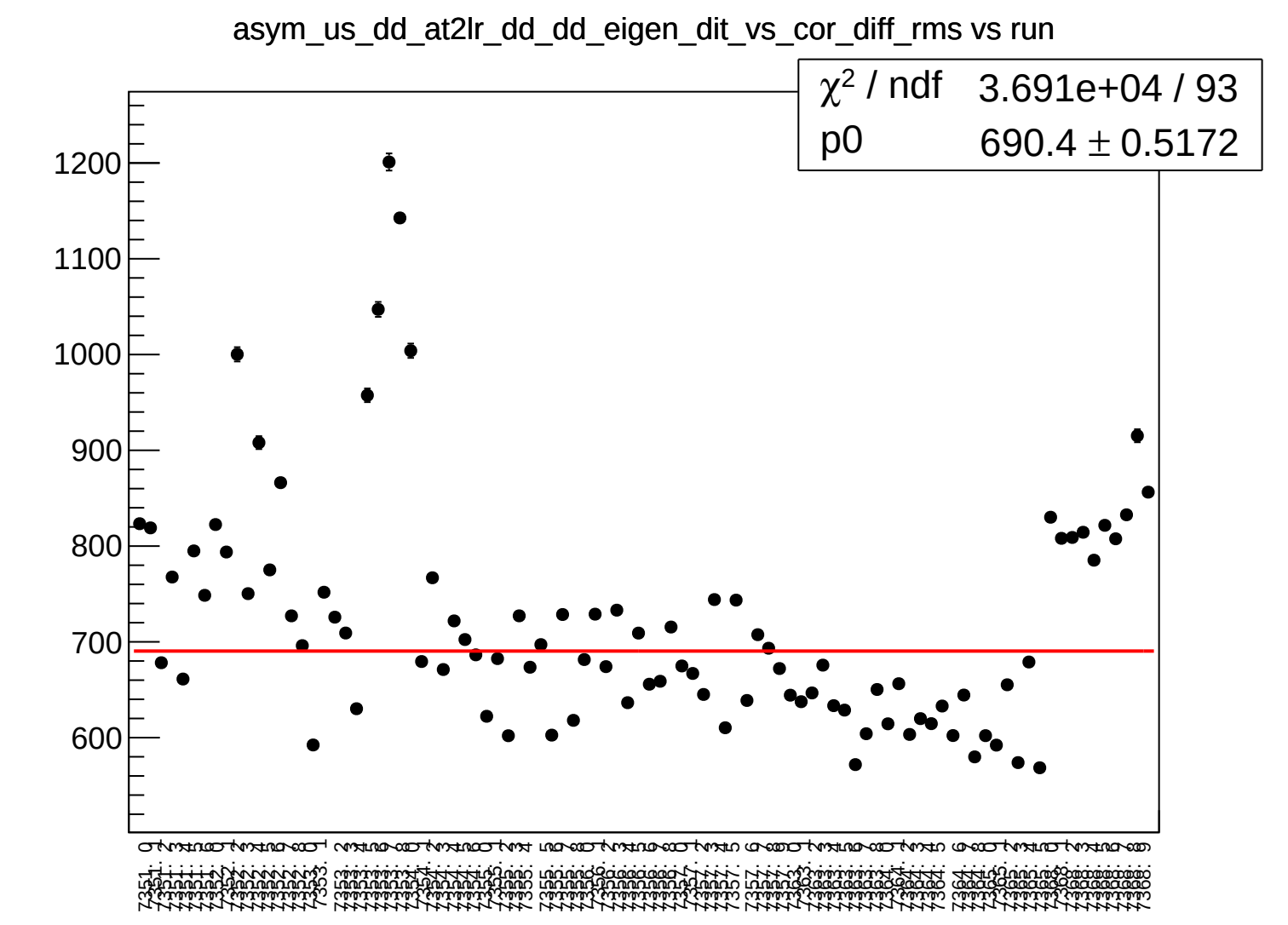

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.691e+04 / 93
p0 690.4 ± 0.5172
1200
1100
1000
900
800
700
600

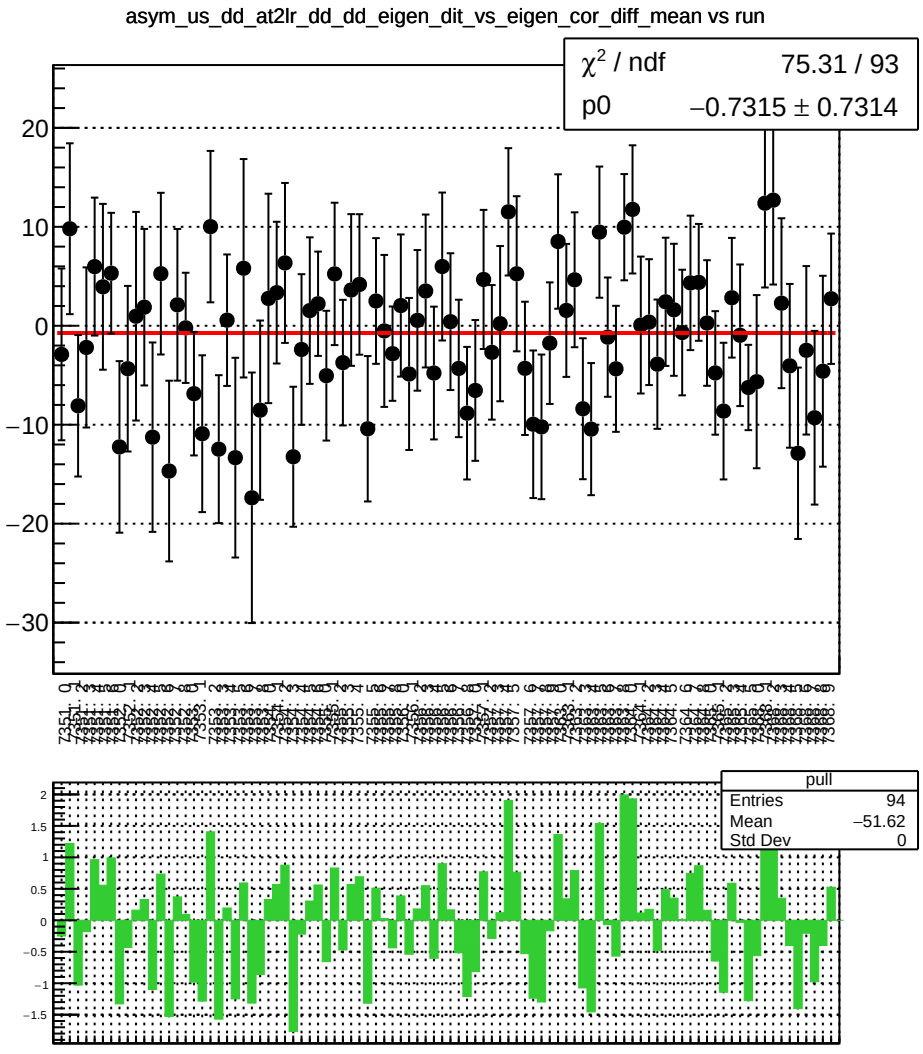

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 77.83 / 93
p0 8.384e−06 ± 6.215e−06
pull
Entries 94
Mean −144.5
Std Dev 0
pull1D
Entries 94
Mean 0.01547
Std Dev 0.9098

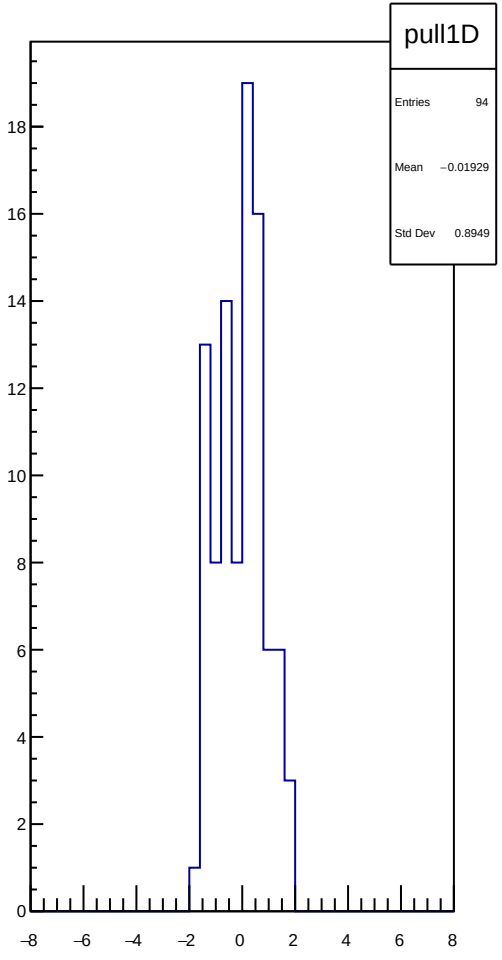

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.501e+05 / 93
p0 0.005325 ± 4.395e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002

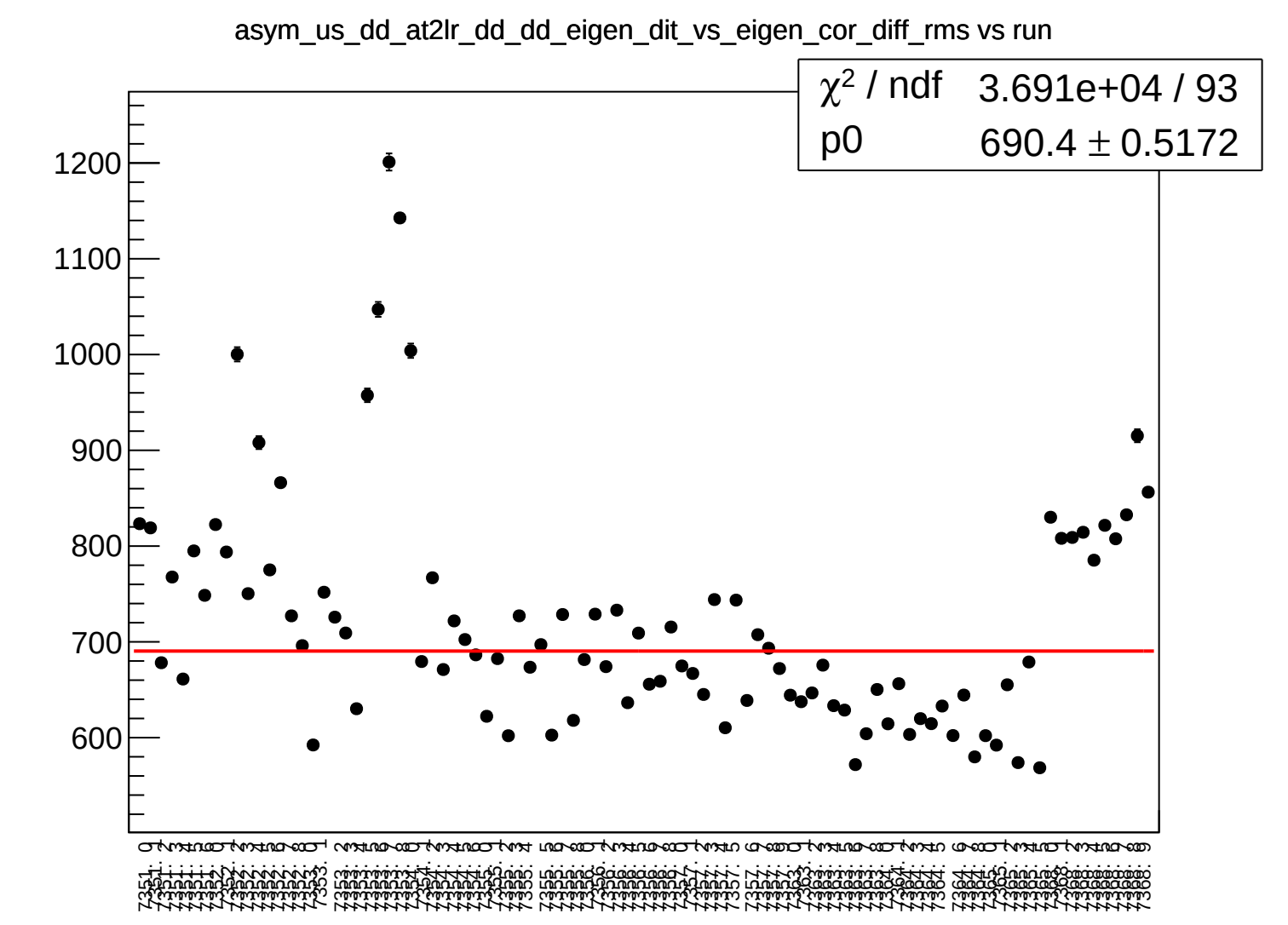

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.31 / 93
p0 −0.7315 ± 0.7314
pull
Entries 94
Mean −51.62
Std Dev 0

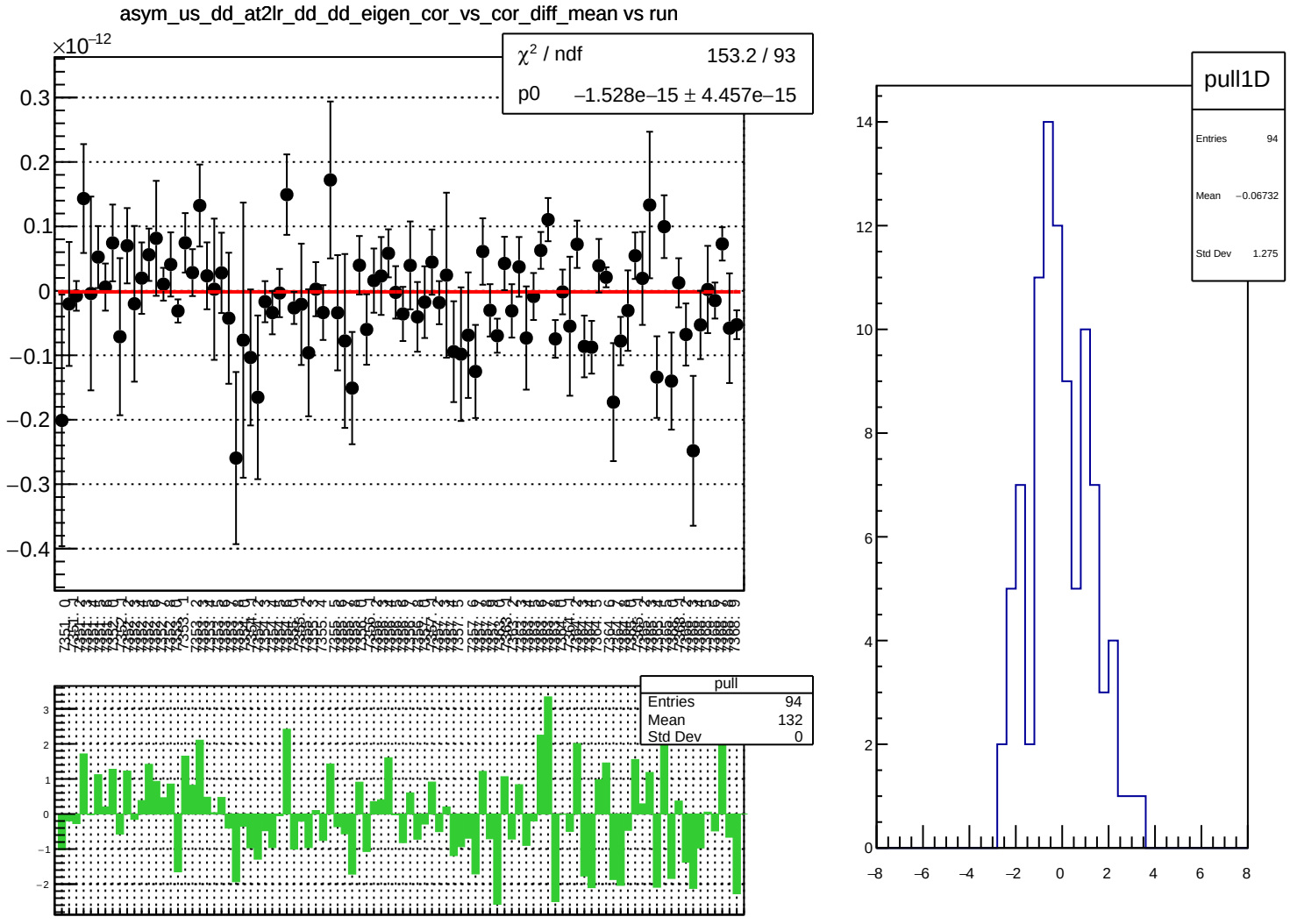

pull1D
Entries 94
Mean −0.01929
Std Dev 0.8949

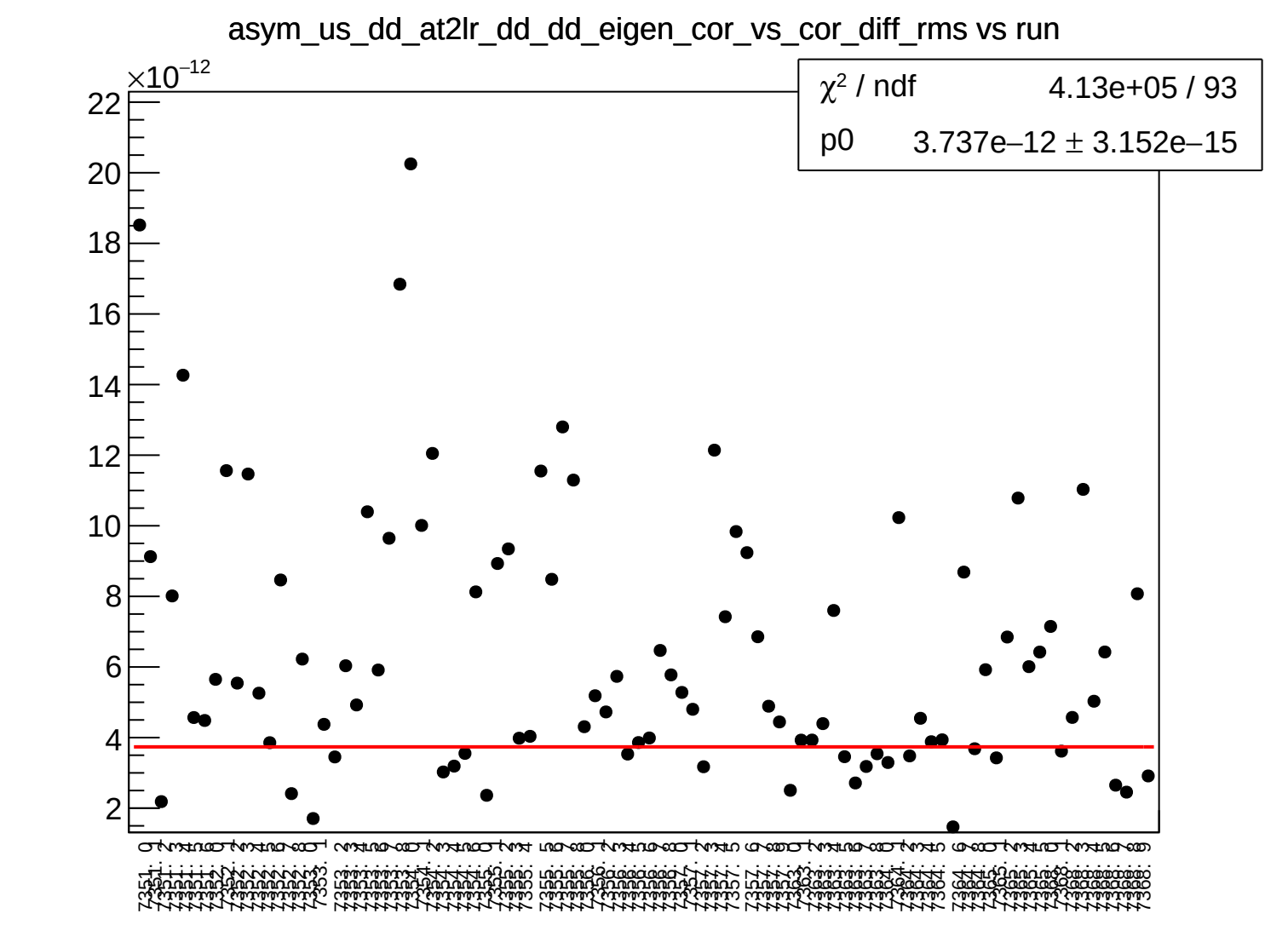

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.691e+04 / 93
p0 690.4 ± 0.5172
1200
1100
1000
900
800
700
600

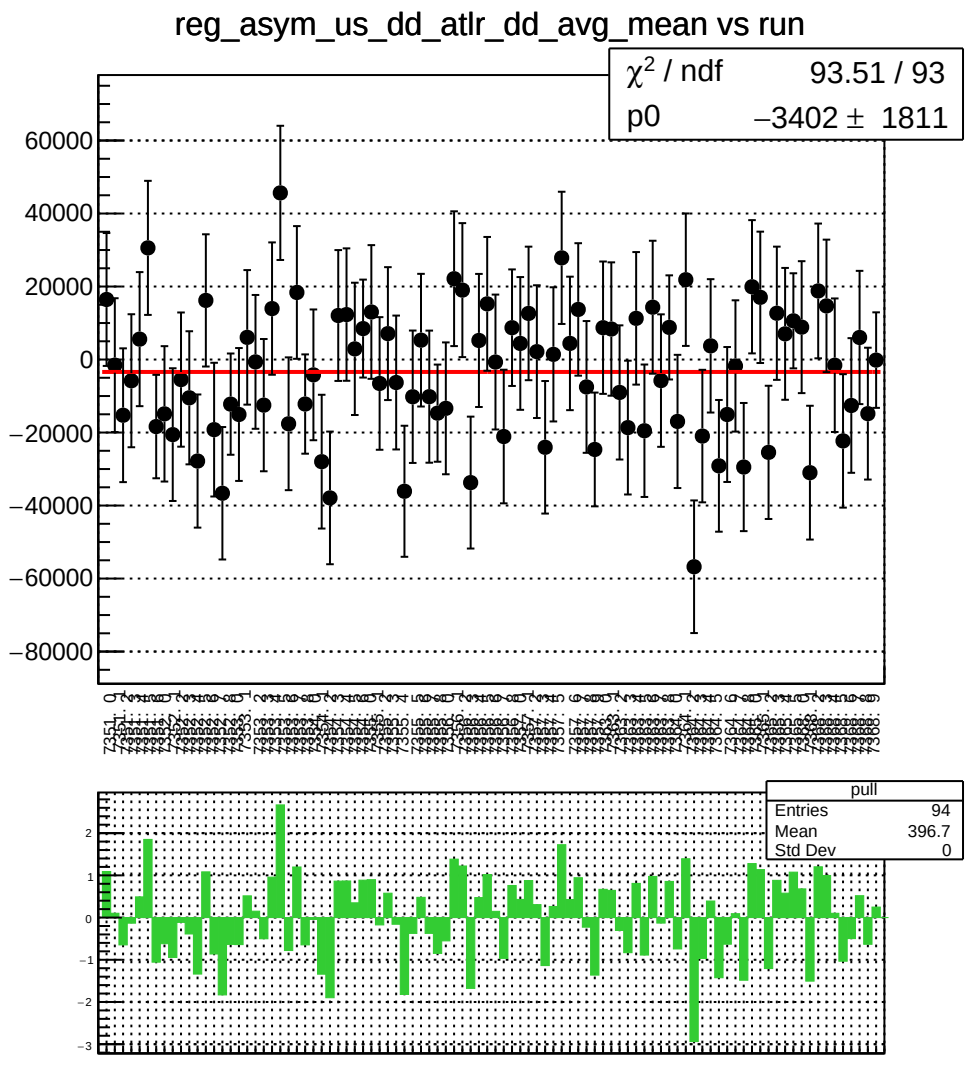

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.31 / 93
p0 −0.7315 ± 0.7314
pull
Entries 94
Mean −51.62
Std Dev 0

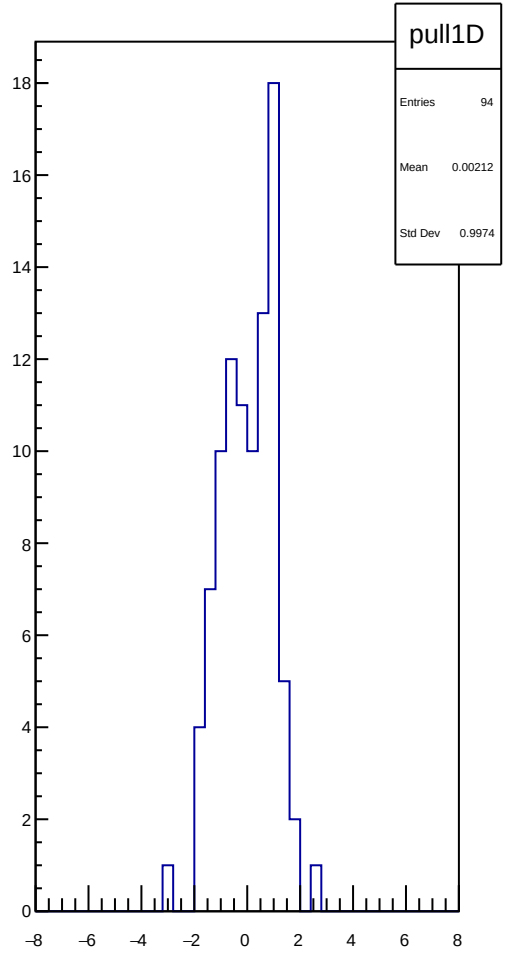

pull1D
Entries 94
Mean −0.01929
Std Dev 0.8949

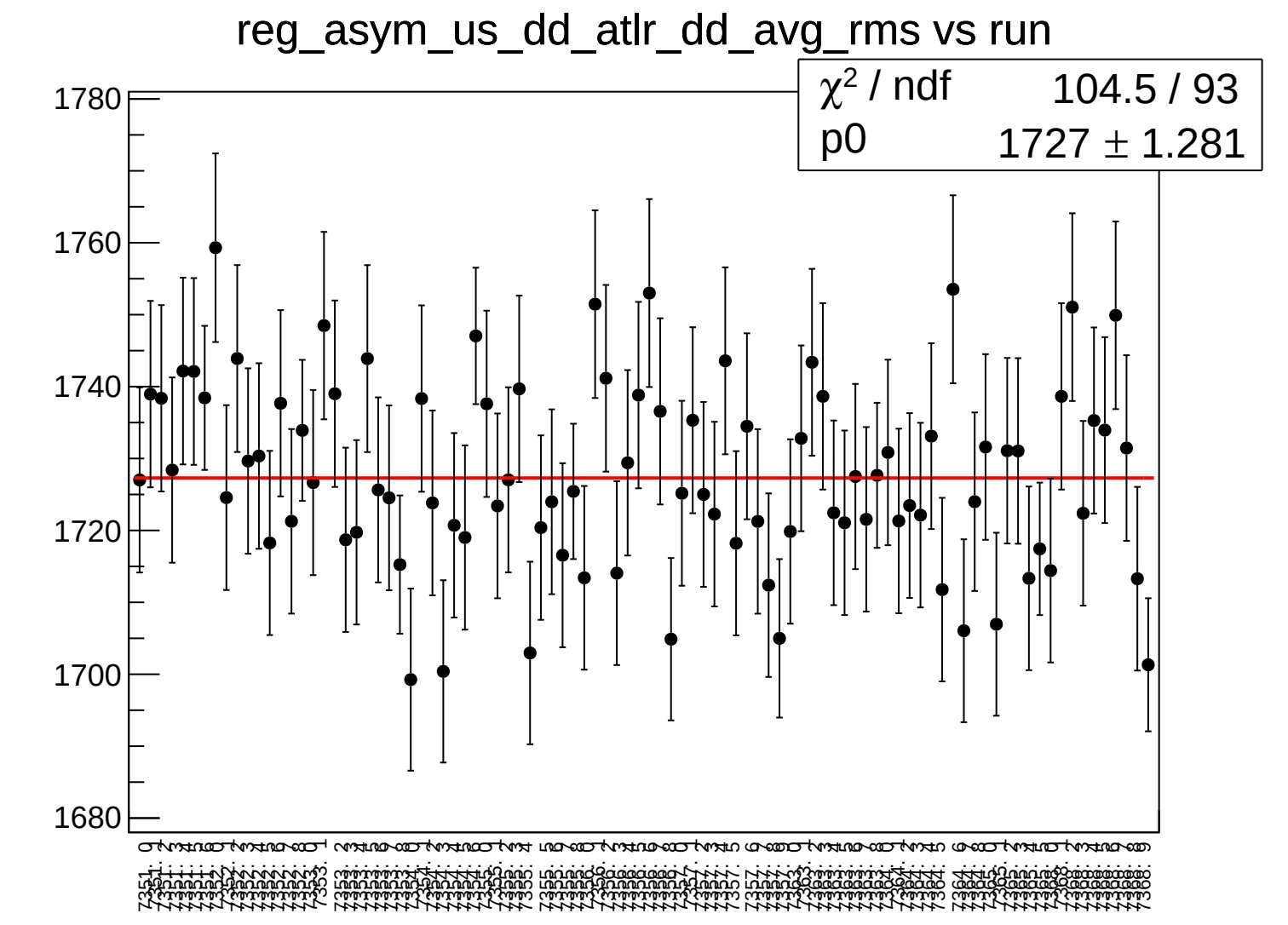

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.691e+04 / 93
p0 690.4 ± 0.5172
1200
1100
1000
900
800
700
600

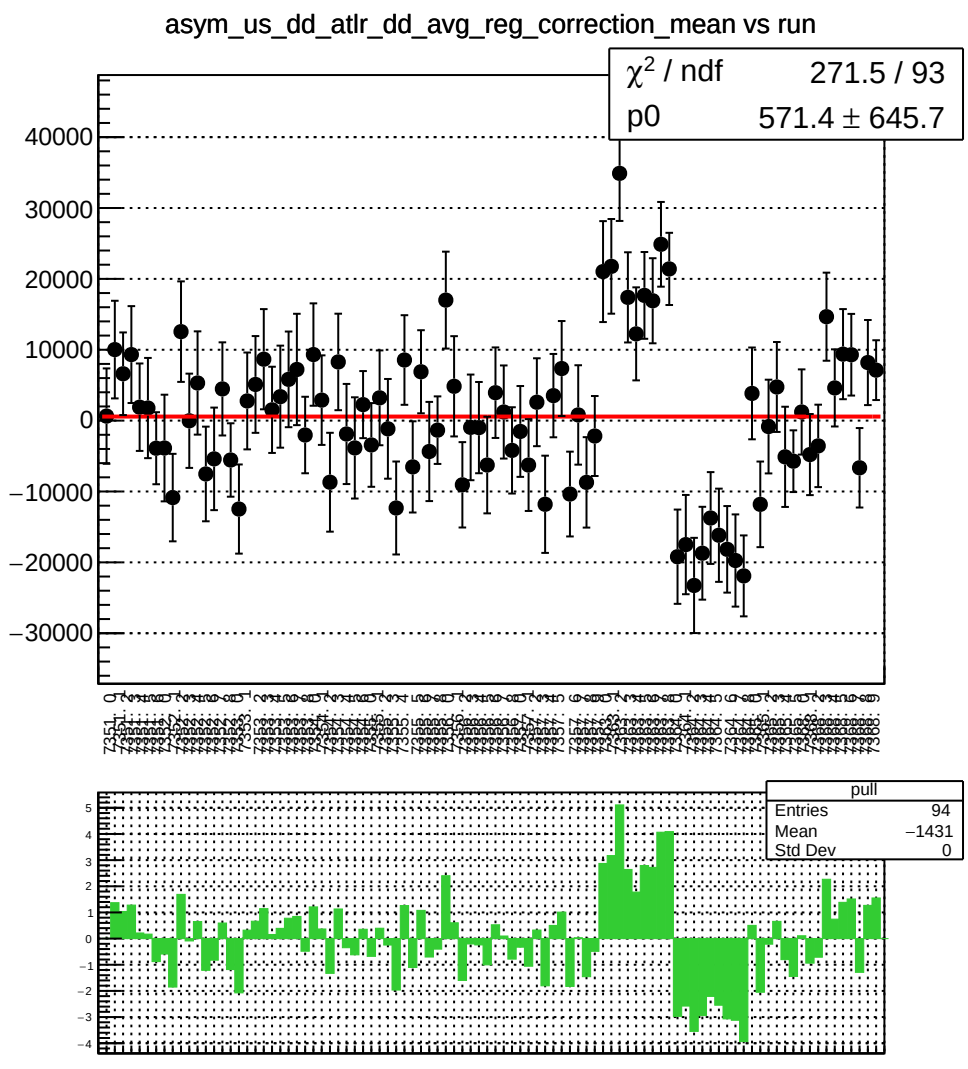

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 153.2 / 93
p0 −1.528e−15 ± 4.457e−15
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull
Entries 94
Mean 132
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.06732
Std Dev 1.275
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

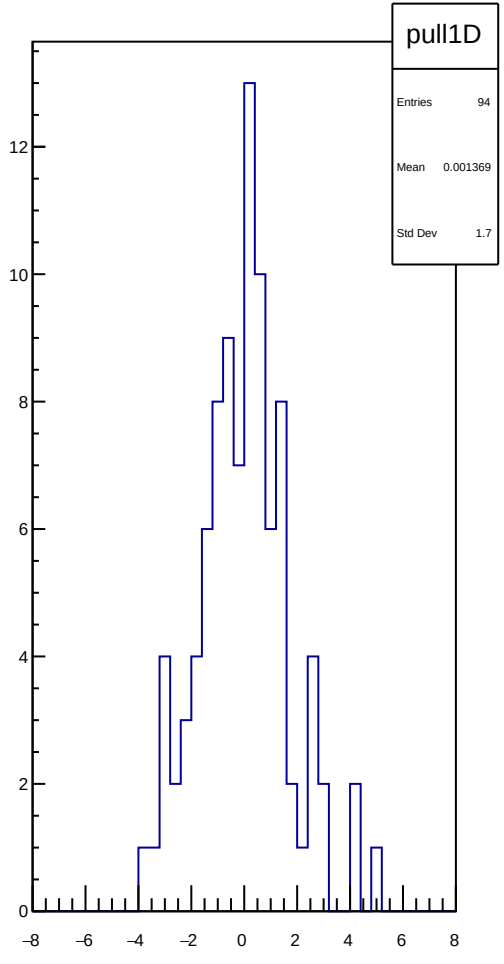

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.13e+05 / 93
p0 3.737e−12 ± 3.152e−15
22
20
18
16
14
12
10
8
6
4
2

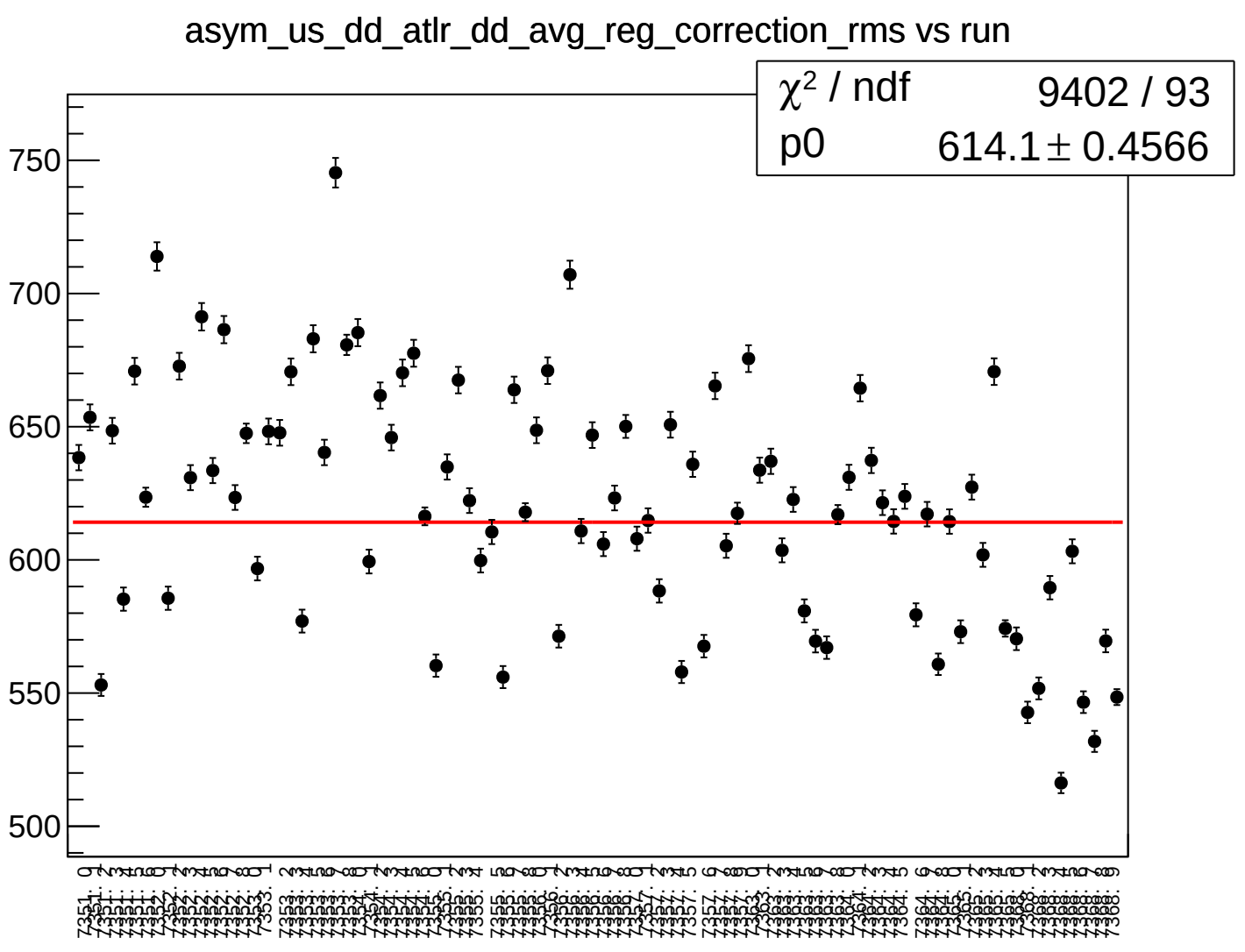

reg_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 93.51 / 93
p0 −3402 ± 1811
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean 396.7
Std Dev 0
2
1
0
−1
−2
−3

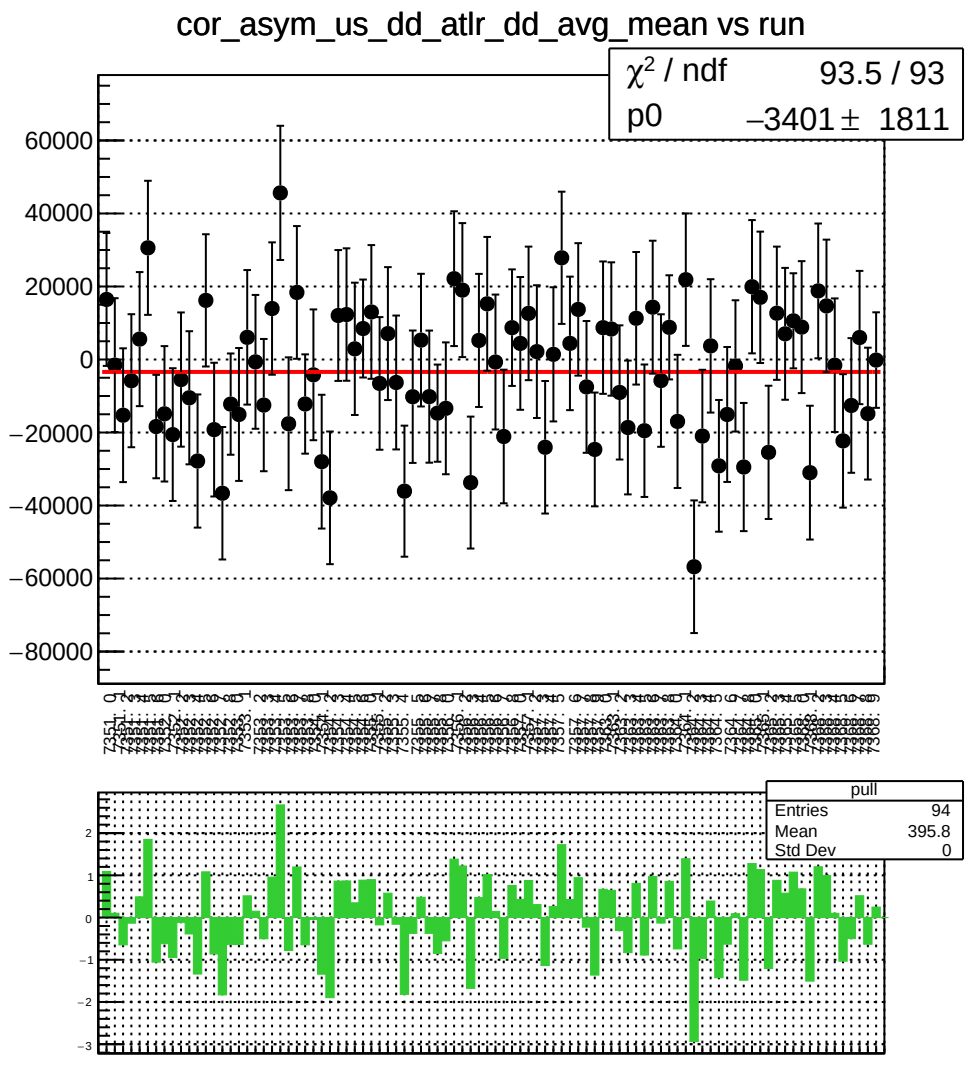

pull1D
Entries 94
Mean 0.00212
Std Dev 0.9974
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

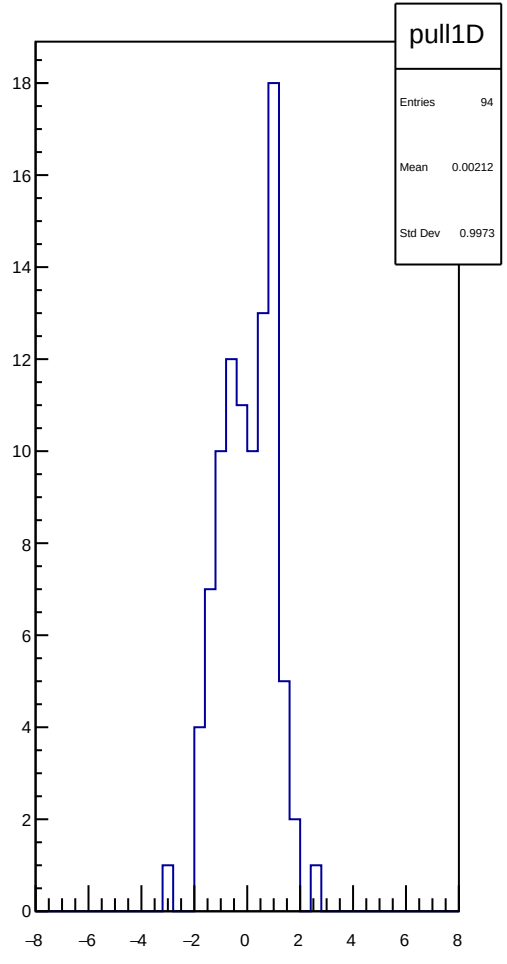

reg_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 104.5 / 93
p0 1727 ± 1.281
1780
1760
1740
1720
1700
1680

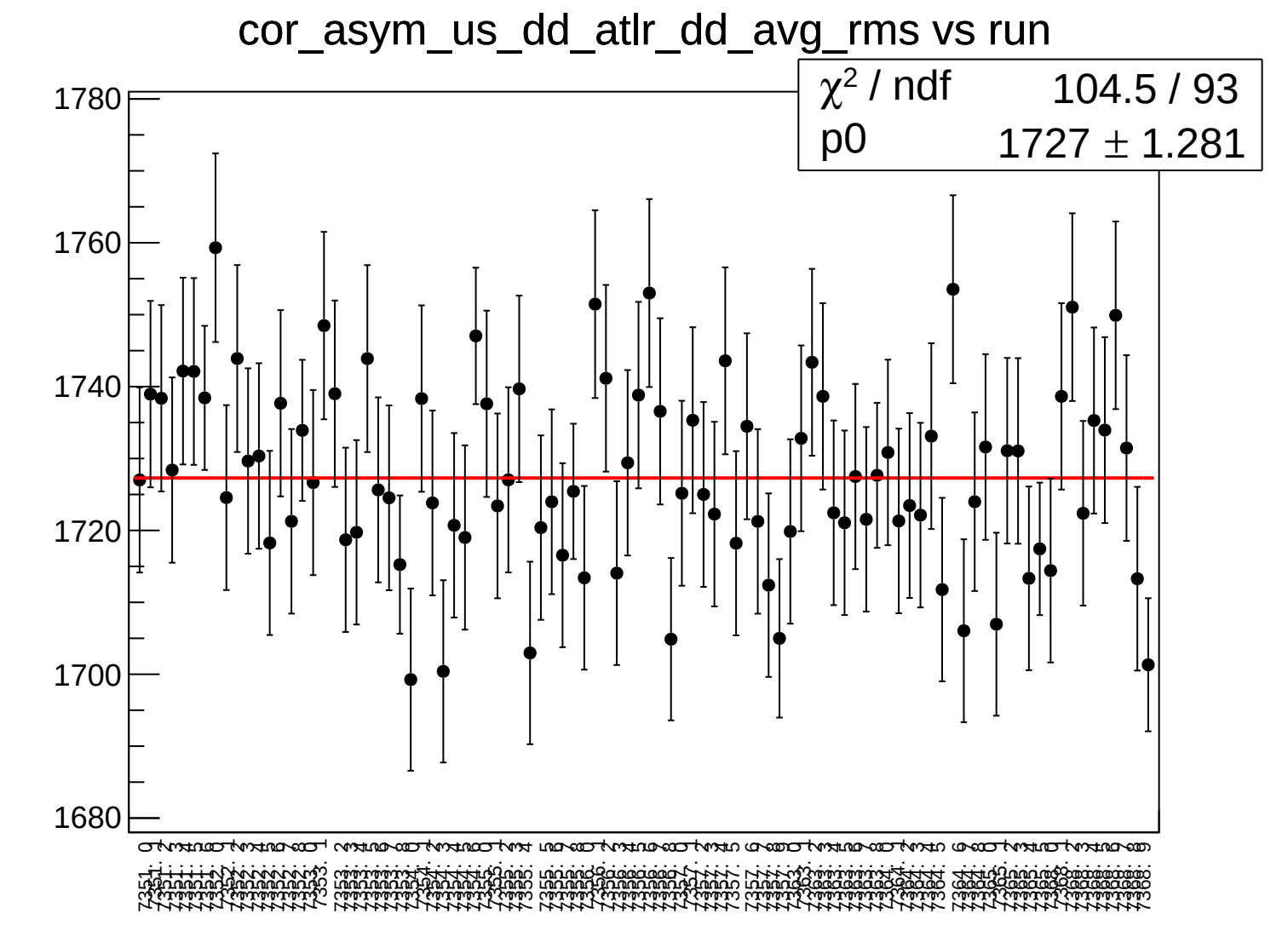

asym_us_dd_atlr_dd_avg_reg_correction_mean vs run
χ² / ndf 271.5 / 93
p0 571.4 ± 645.7
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −1431
Std Dev 0
5
4
3
2
1
0
−1
−2
−3
−4

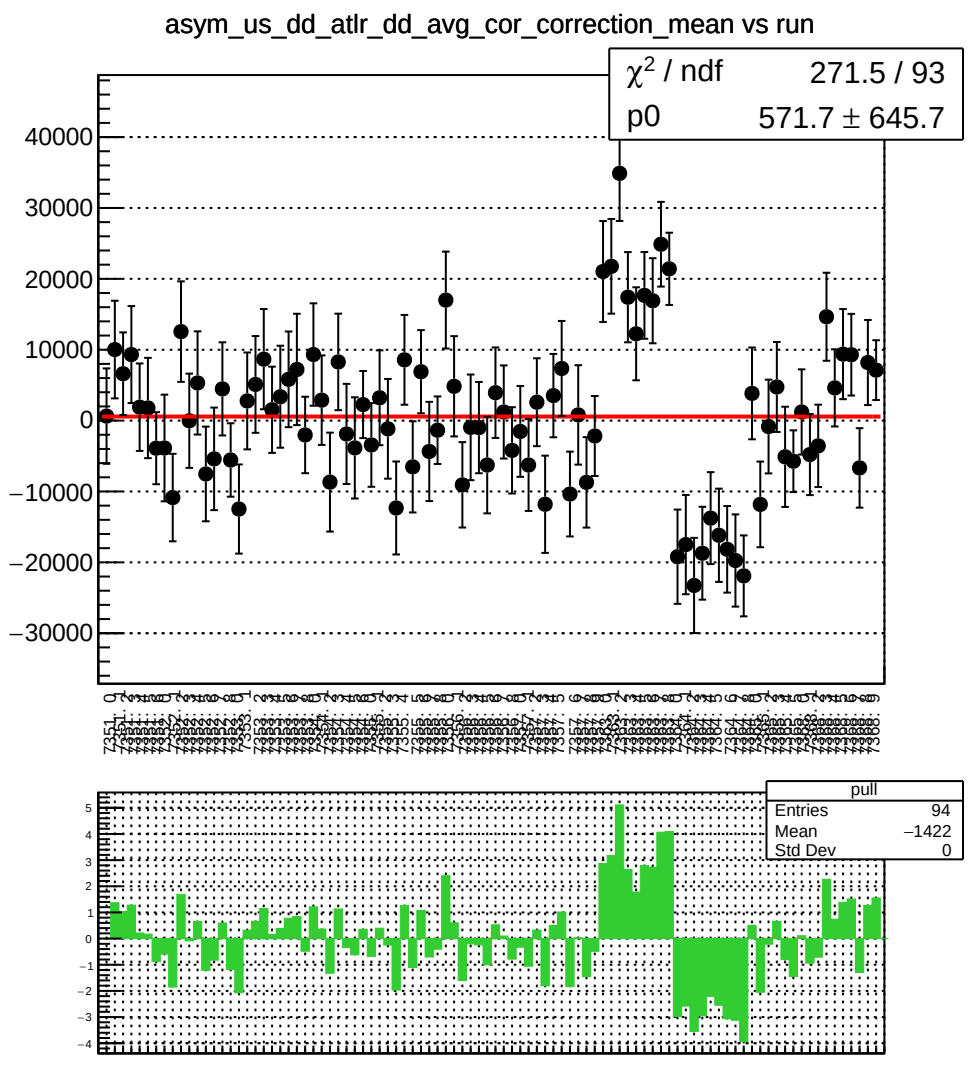

pull1D
Entries 94
Mean 0.001369
Std Dev 1.7
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

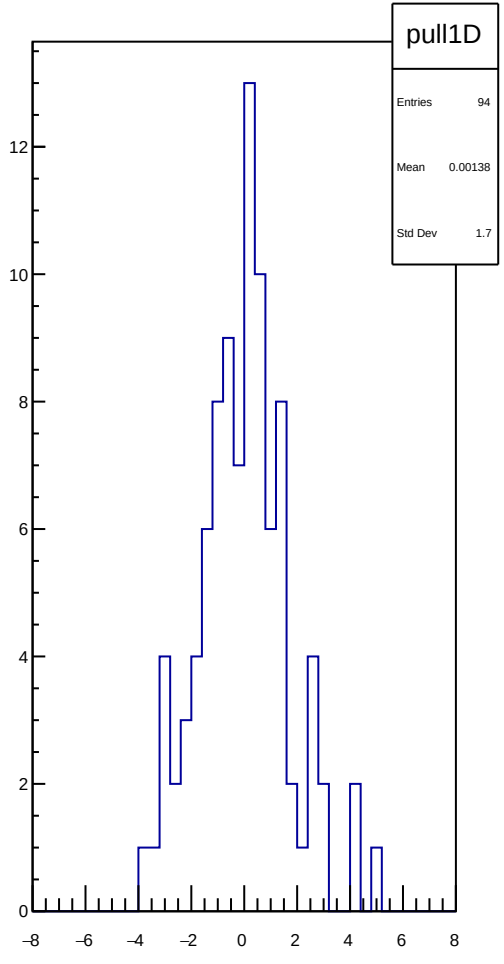

asym_us_dd_atlr_dd_avg_reg_correction_rms vs run
χ² / ndf 9402 / 93
p0 614.1 ± 0.4566
750
700
650
600
550
500

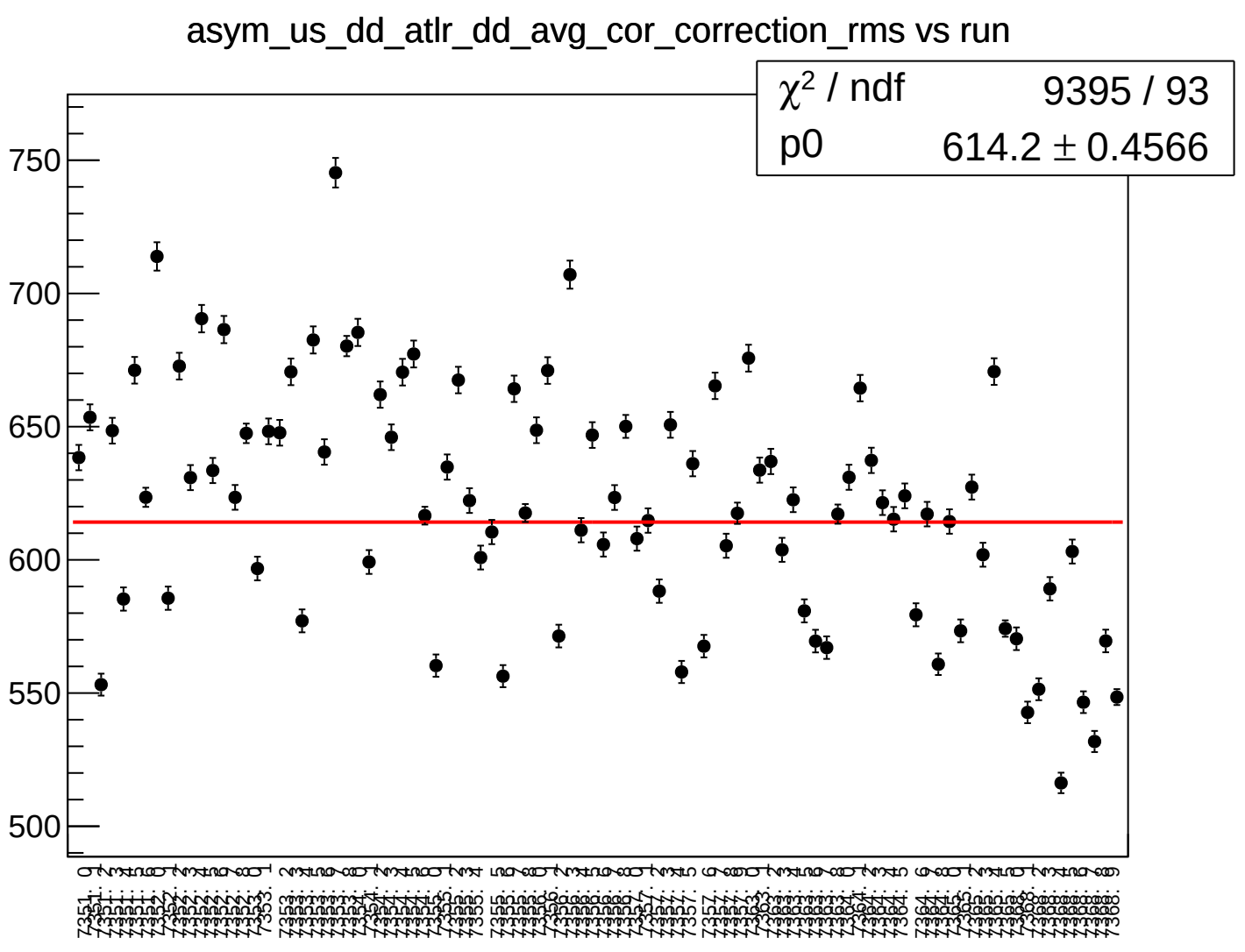

cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 93.5 / 93
p0 −3401 ± 1811
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean 395.8
Std Dev 0
2
1
0
−1
−2
−3

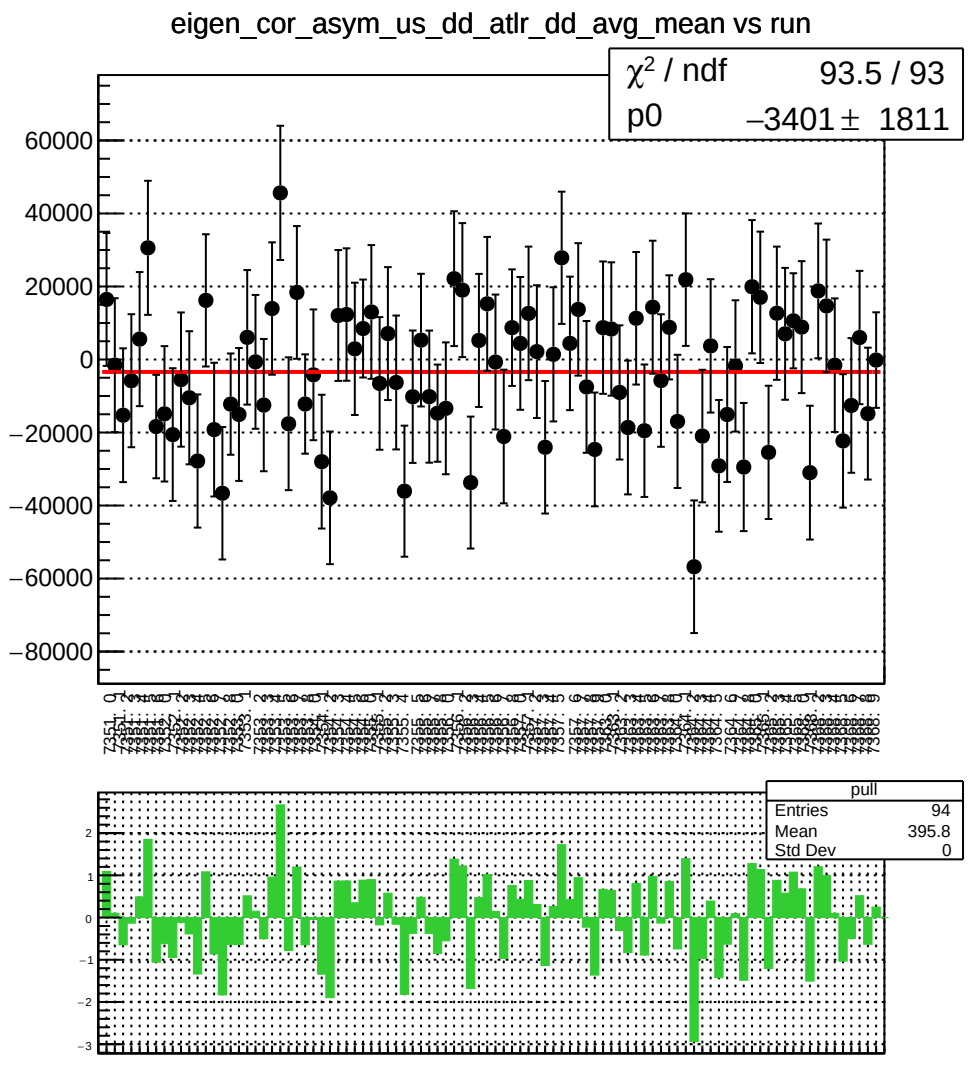

pull1D
Entries 94
Mean 0.00212
Std Dev 0.9973
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

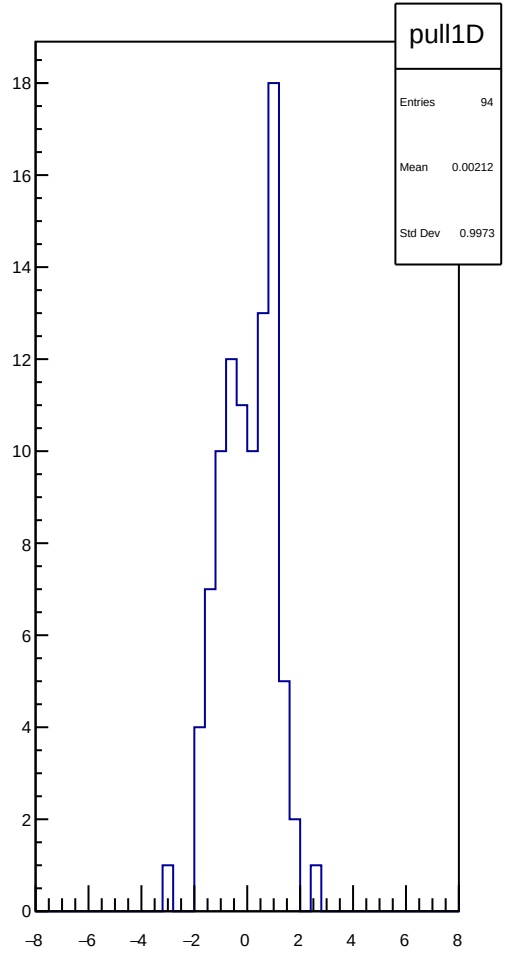

cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 104.5 / 93
p0 1727 ± 1.281
1780
1760
1740
1720
1700
1680

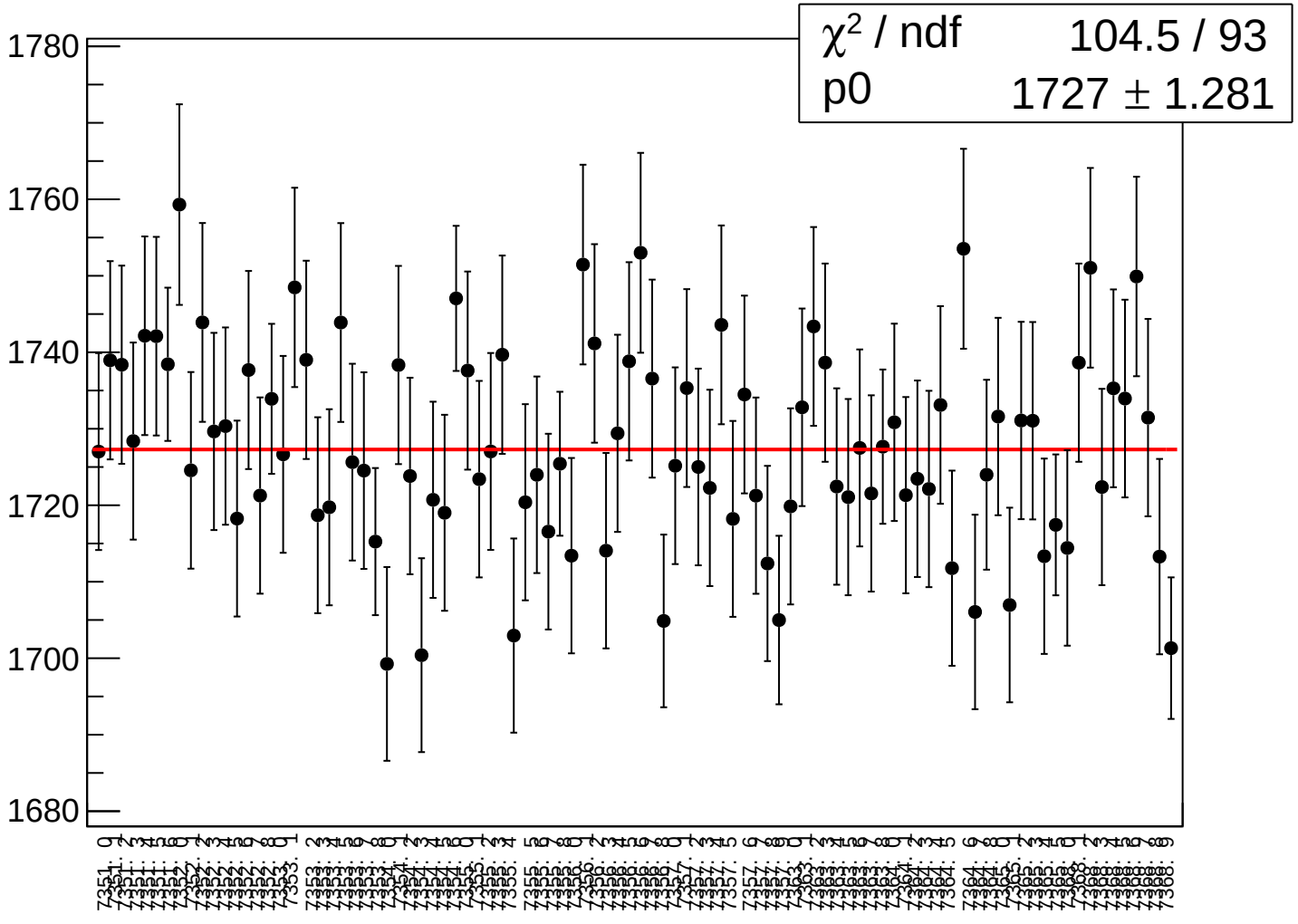

asym_us_dd_atlr_dd_avg_cor_correction_mean vs run
χ² / ndf 271.5 / 93
p0 571.7 ± 645.7
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −1422
Std Dev 0
5
4
3
2
1
0
−1
−2
−3
−4

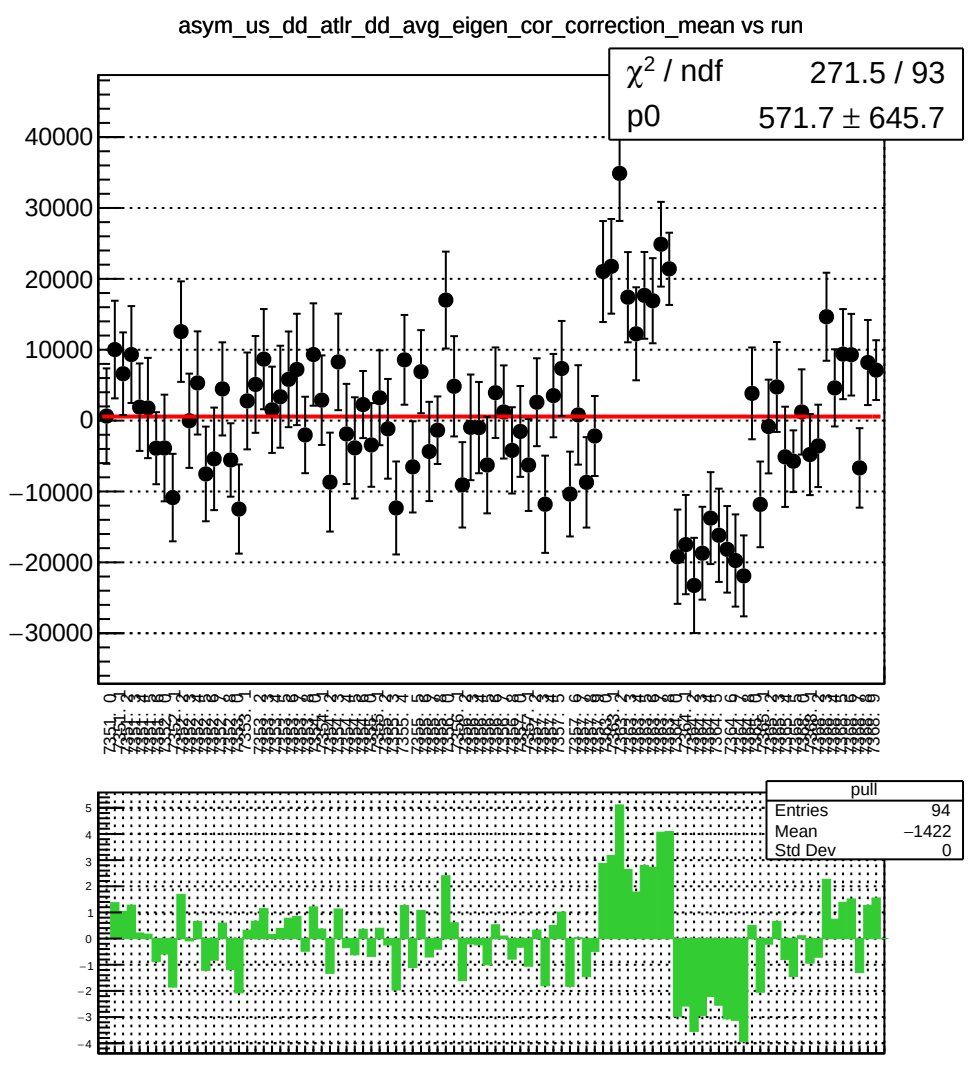

pull1D
Entries 94
Mean 0.00138
Std Dev 1.7
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

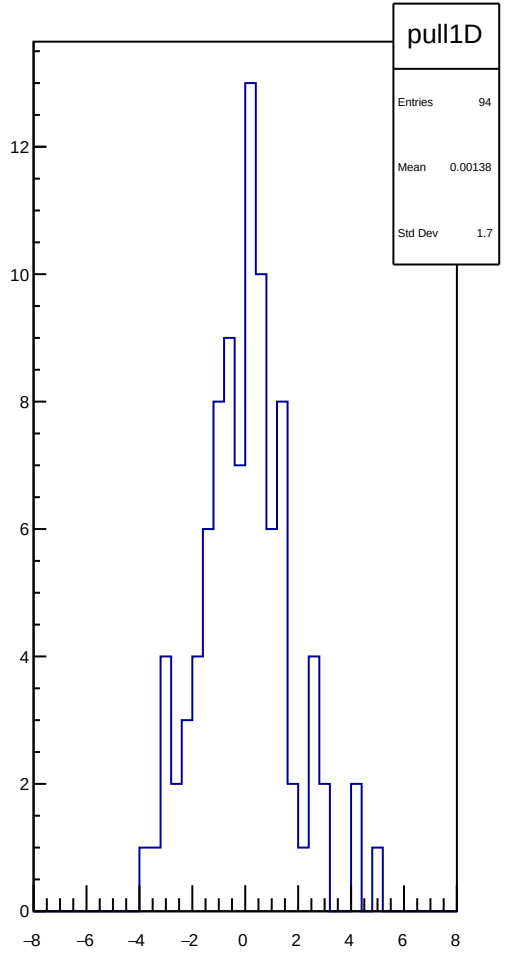

asym_us_dd_atlr_dd_avg_cor_correction_rms vs run
χ² / ndf 9395 / 93
p0 614.2 ± 0.4566
750
700
650
600
550
500

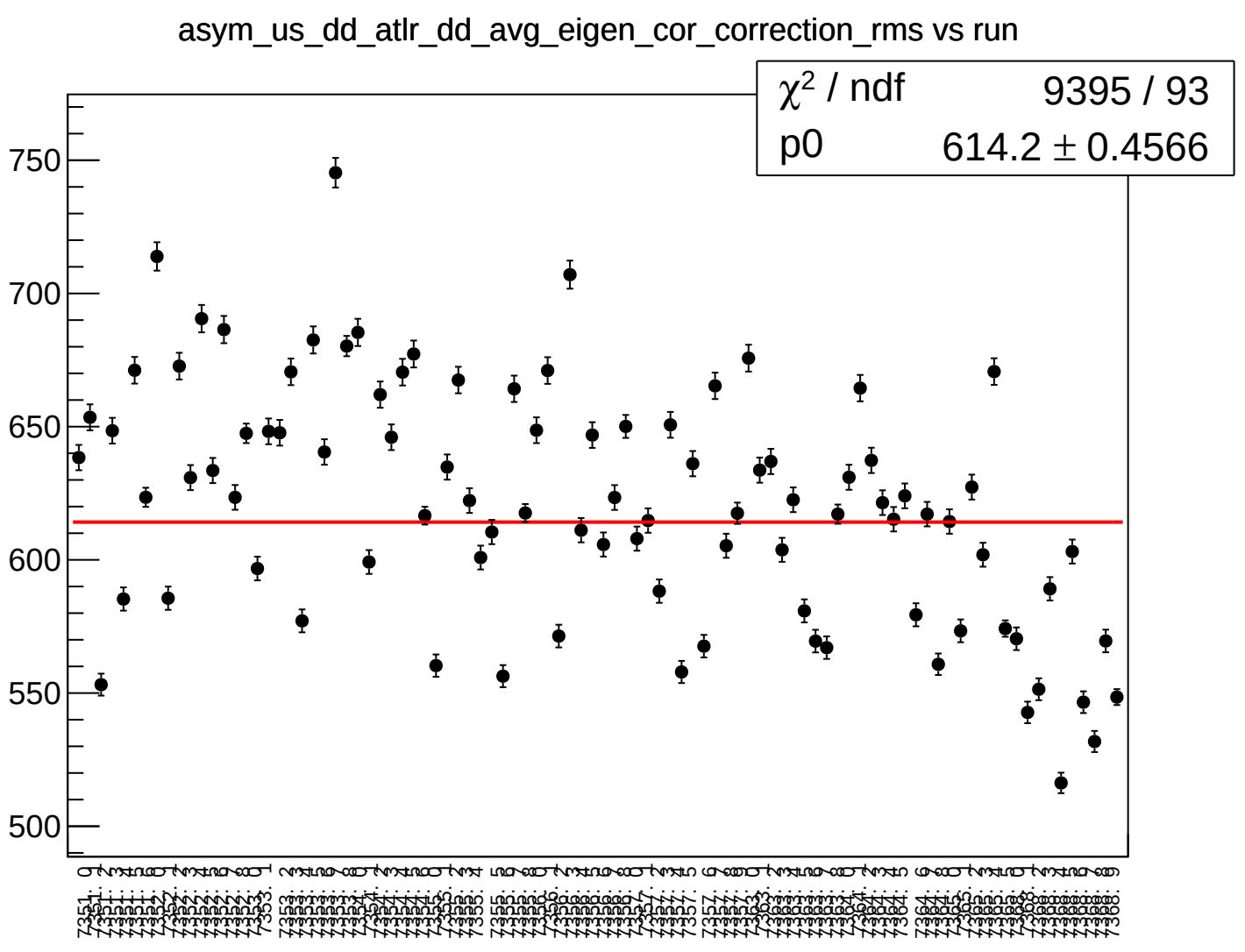

eigen_cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 93.5 / 93
p0 −3401 ± 1811
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean 395.8
Std Dev 0
2
1
0
−1
−2
−3

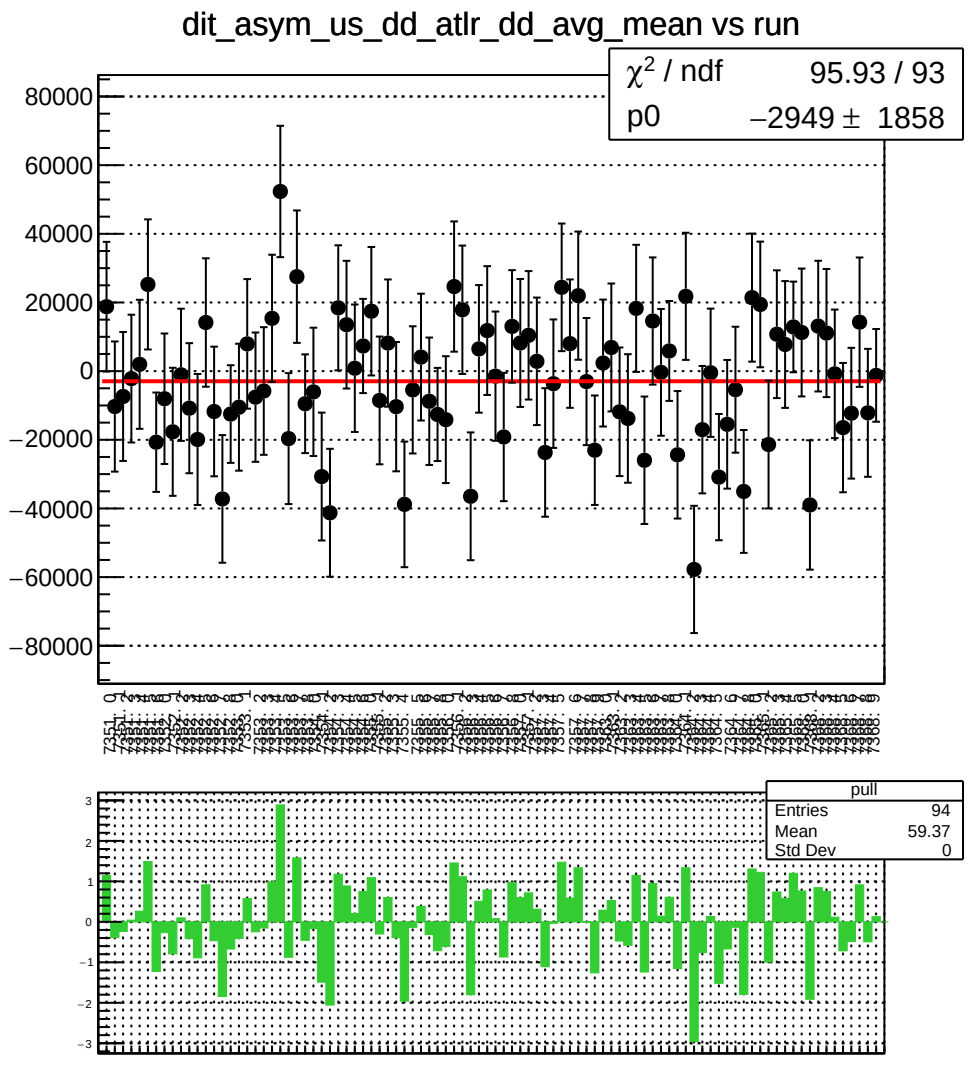

pull1D
Entries 94
Mean 0.00212
Std Dev 0.9973
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

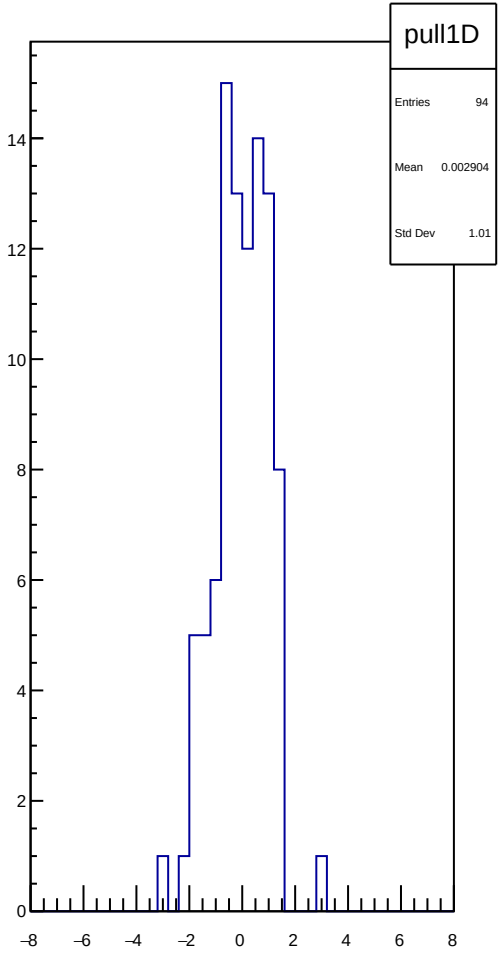

eigen_cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 104.5 / 93
p0 1727 ± 1.281
1780
1760
1740
1720
1700
1680

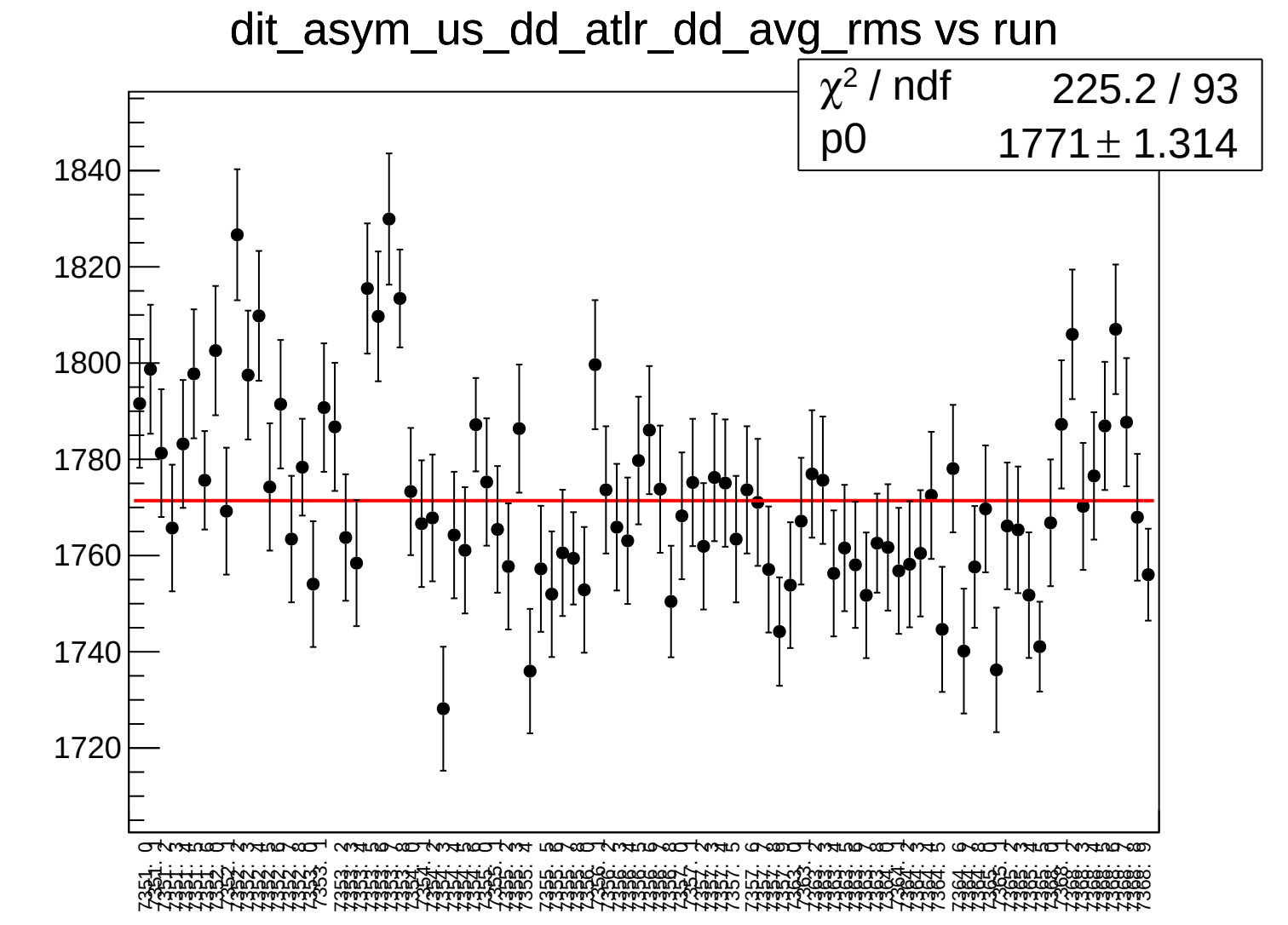

asym_us_dd_atlr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 271.5 / 93
p0 571.7 ± 645.7
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −1422
Std Dev 0
5
4
3
2
1
0
−1
−2
−3
−4

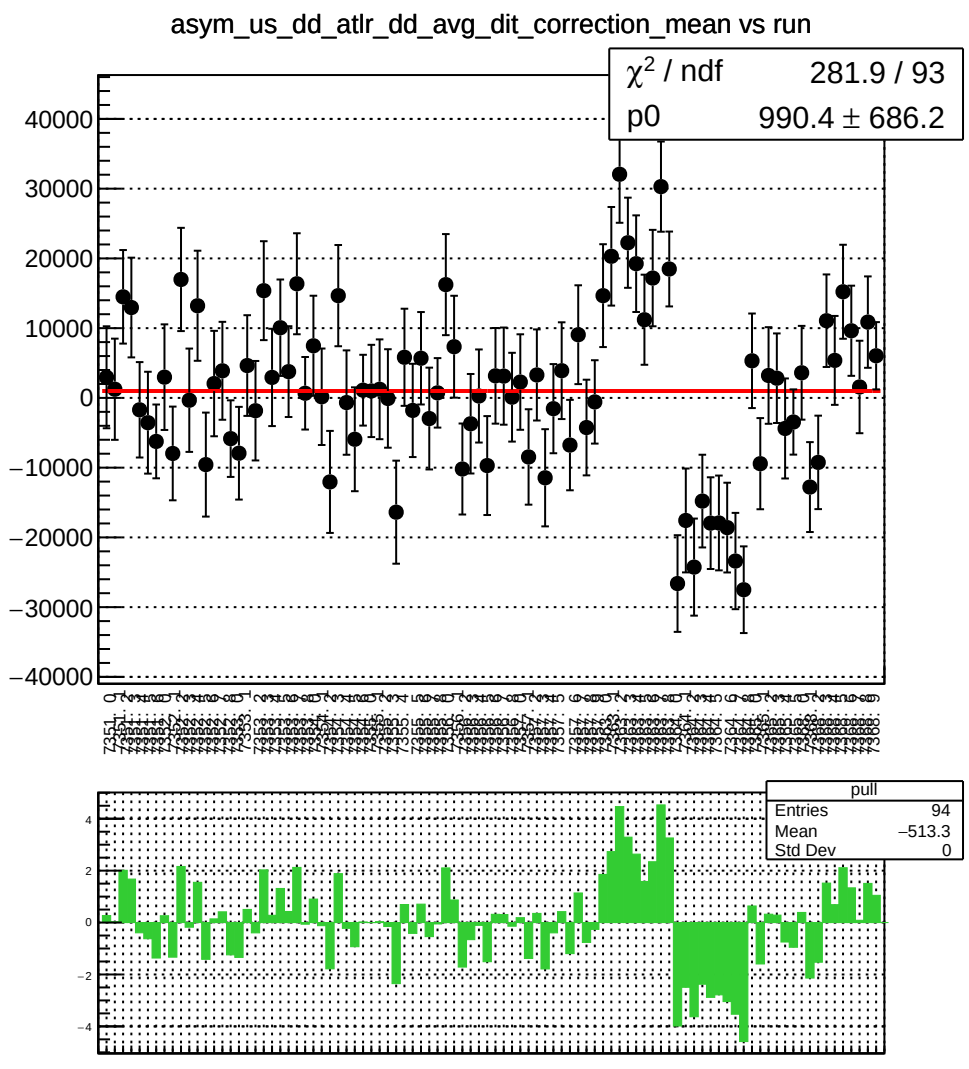

pull1D
Entries 94
Mean 0.00138
Std Dev 1.7
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

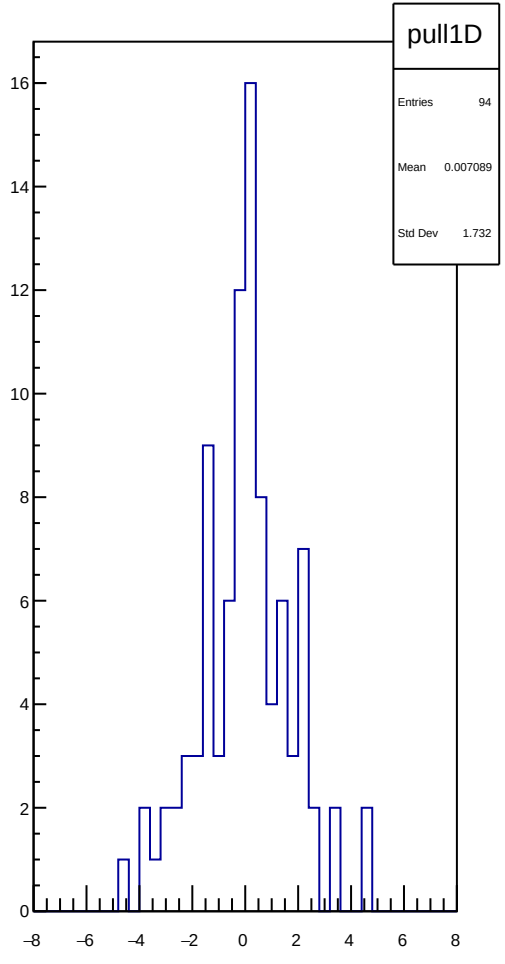

asym_us_dd_atlr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 9395 / 93
p0 614.2 ± 0.4566
750
700
650
600
550
500

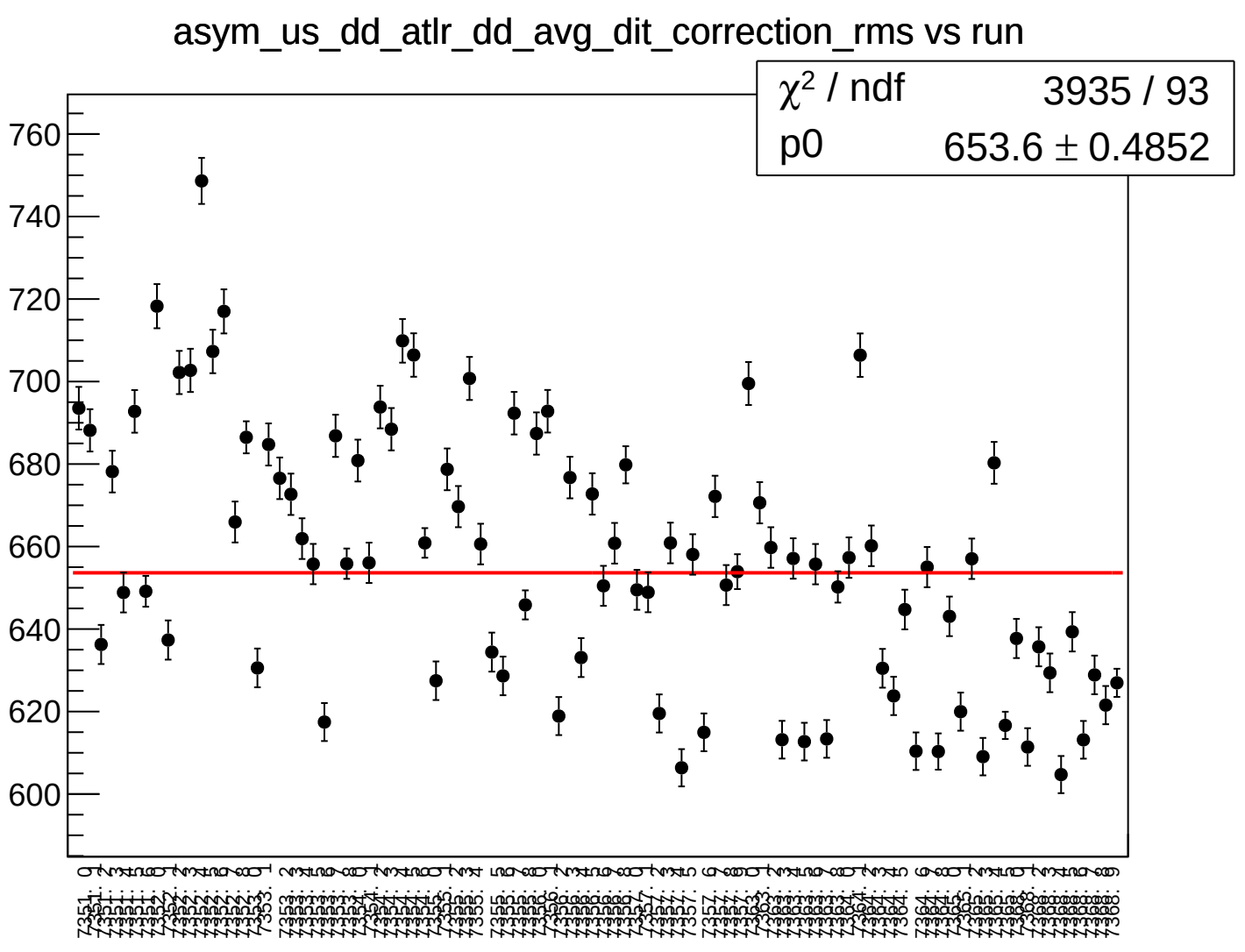

dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 95.93 / 93
p0 −2949 ± 1858
pull
Entries 94
Mean 59.37
Std Dev 0

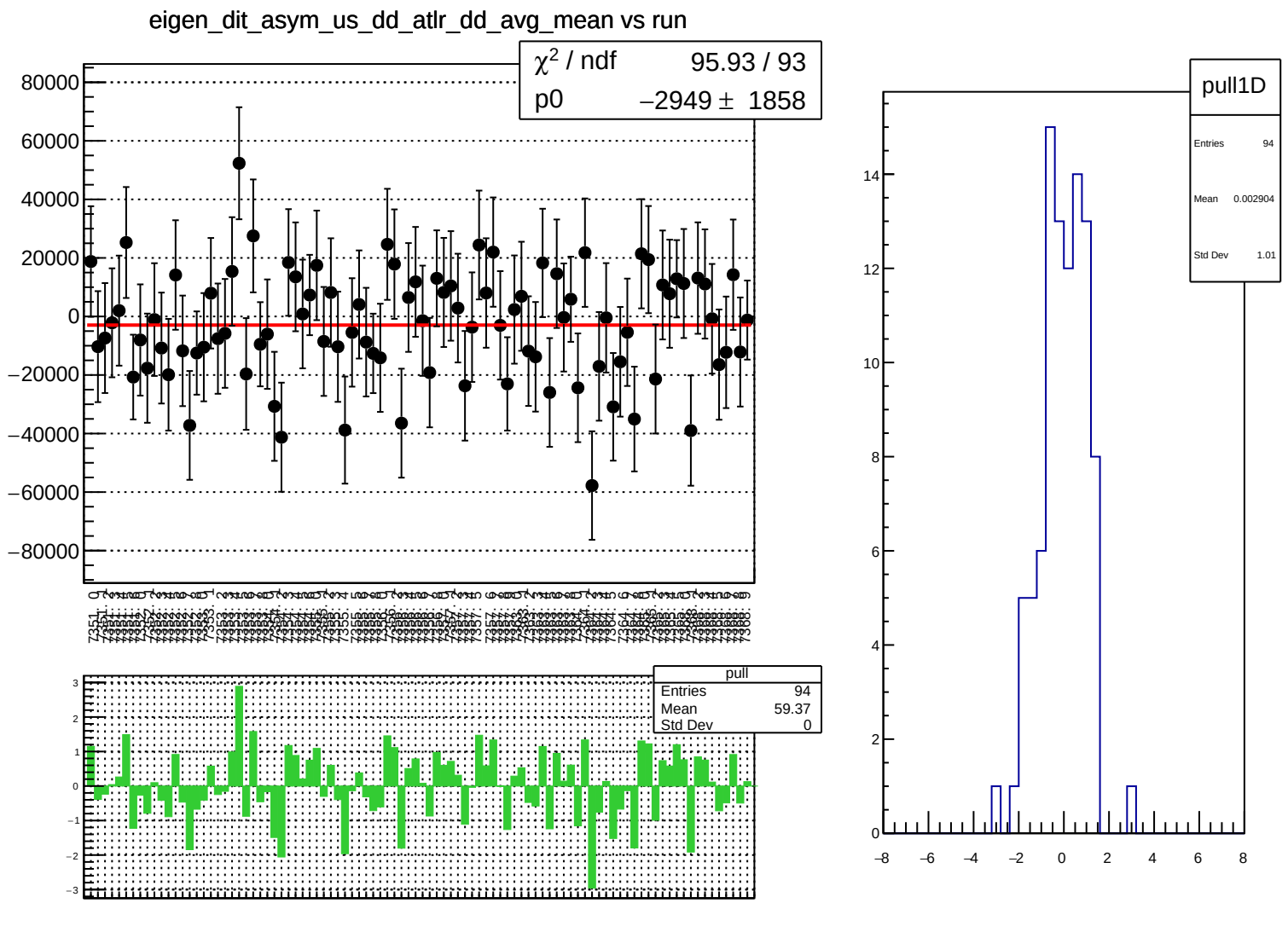

pull1D
Entries 94
Mean 0.002904
Std Dev 1.01

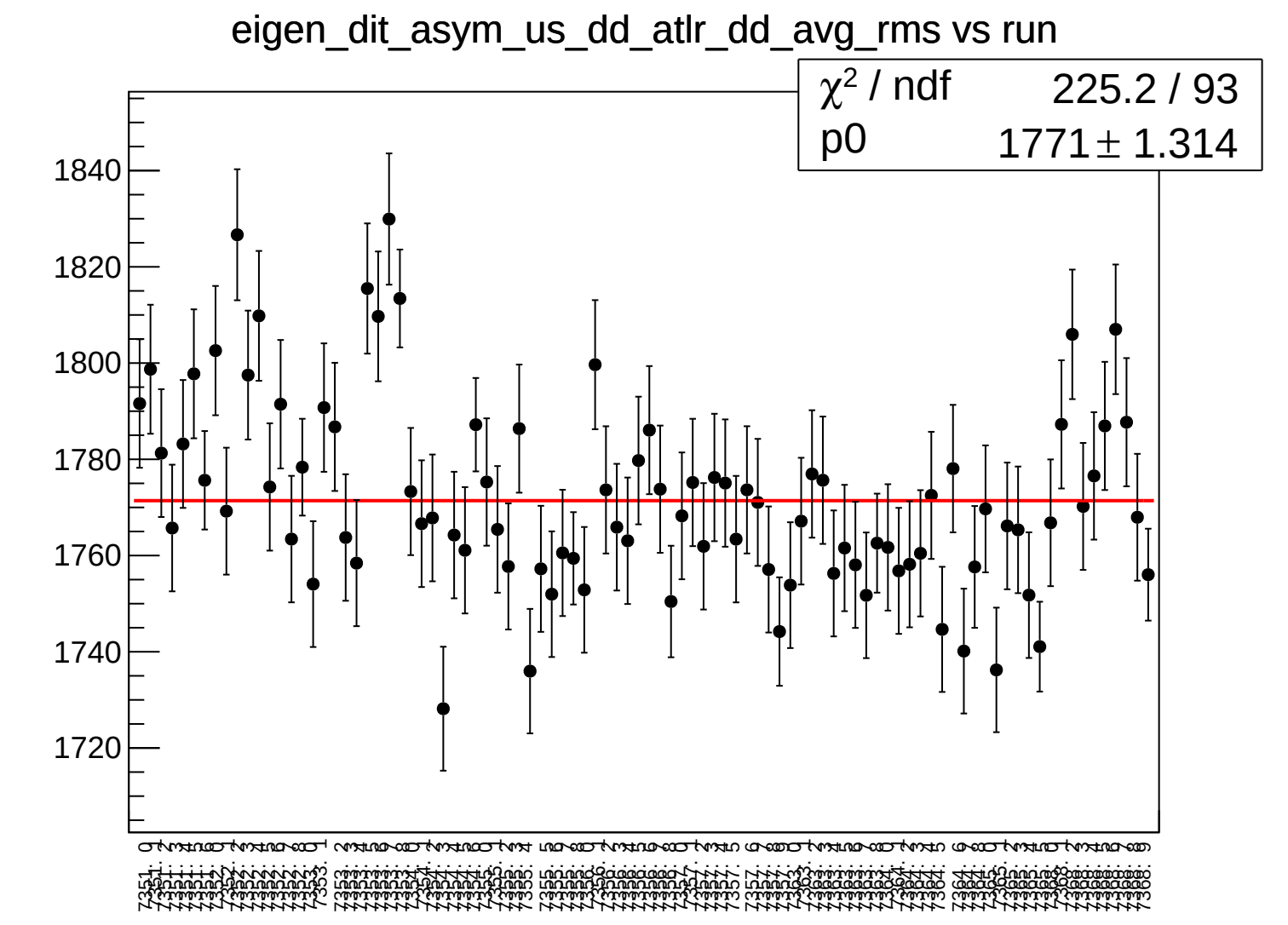

dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 225.2 / 93
p0 1771 ± 1.314
1840
1820
1800
1780
1760
1740
1720

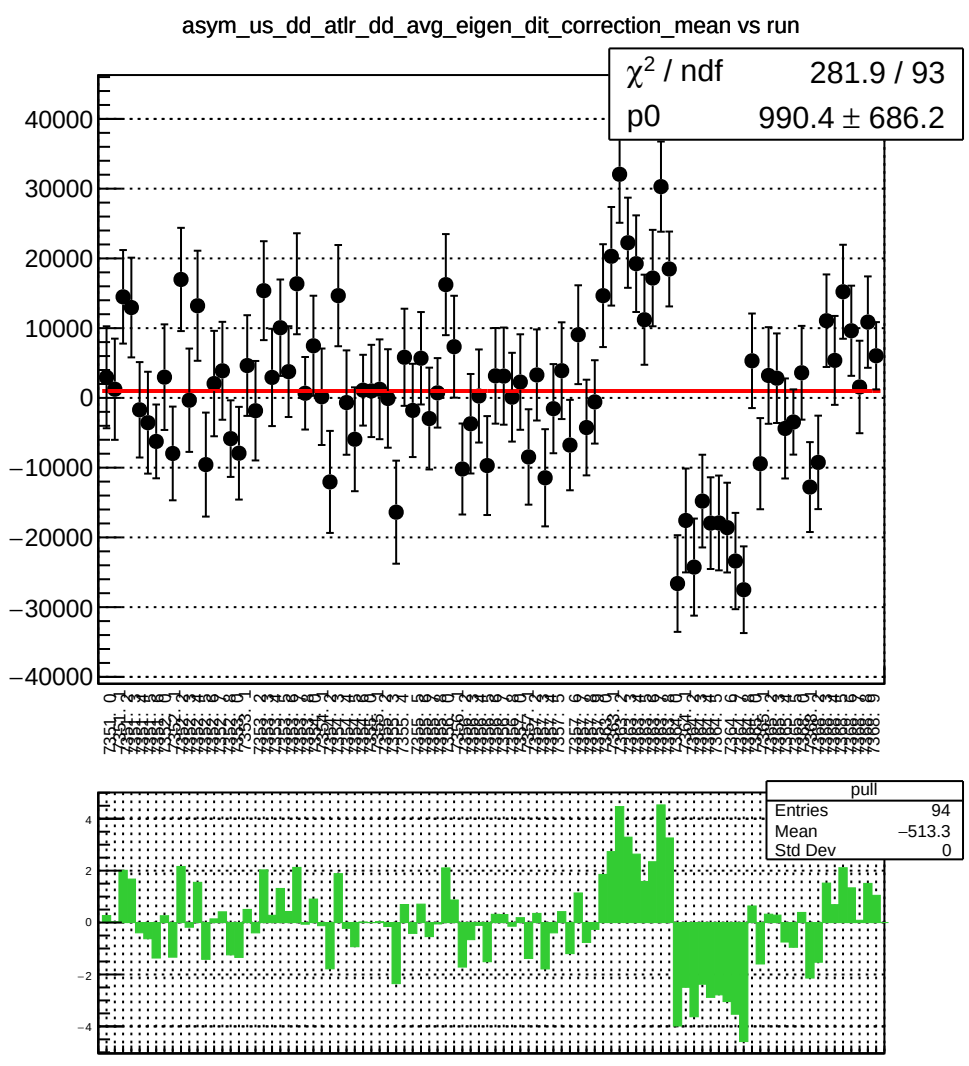

asym_us_dd_atlr_dd_avg_dit_correction_mean vs run
χ² / ndf 281.9 / 93
p0 990.4 ± 686.2
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 94
Mean −513.3
Std Dev 0
4
2
0
−2
−4

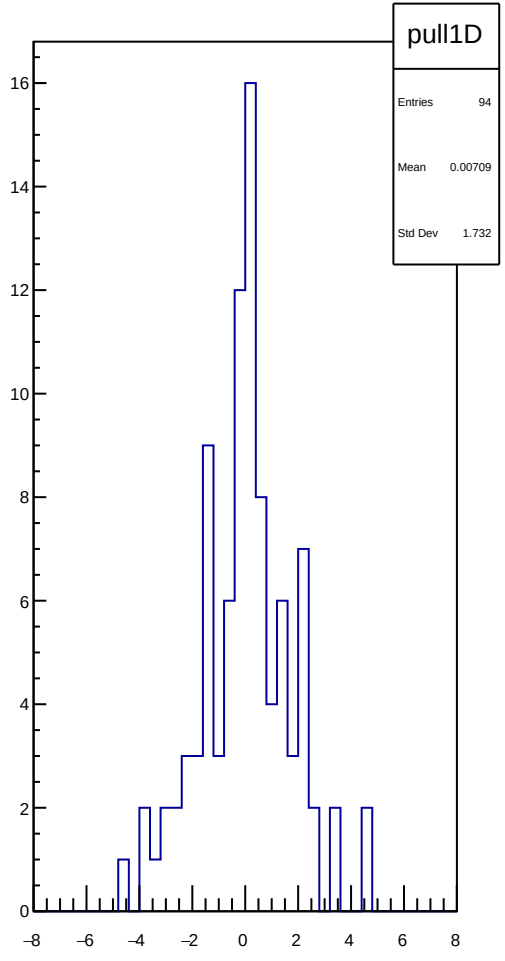

pull1D
Entries 94
Mean 0.007089
Std Dev 1.732
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

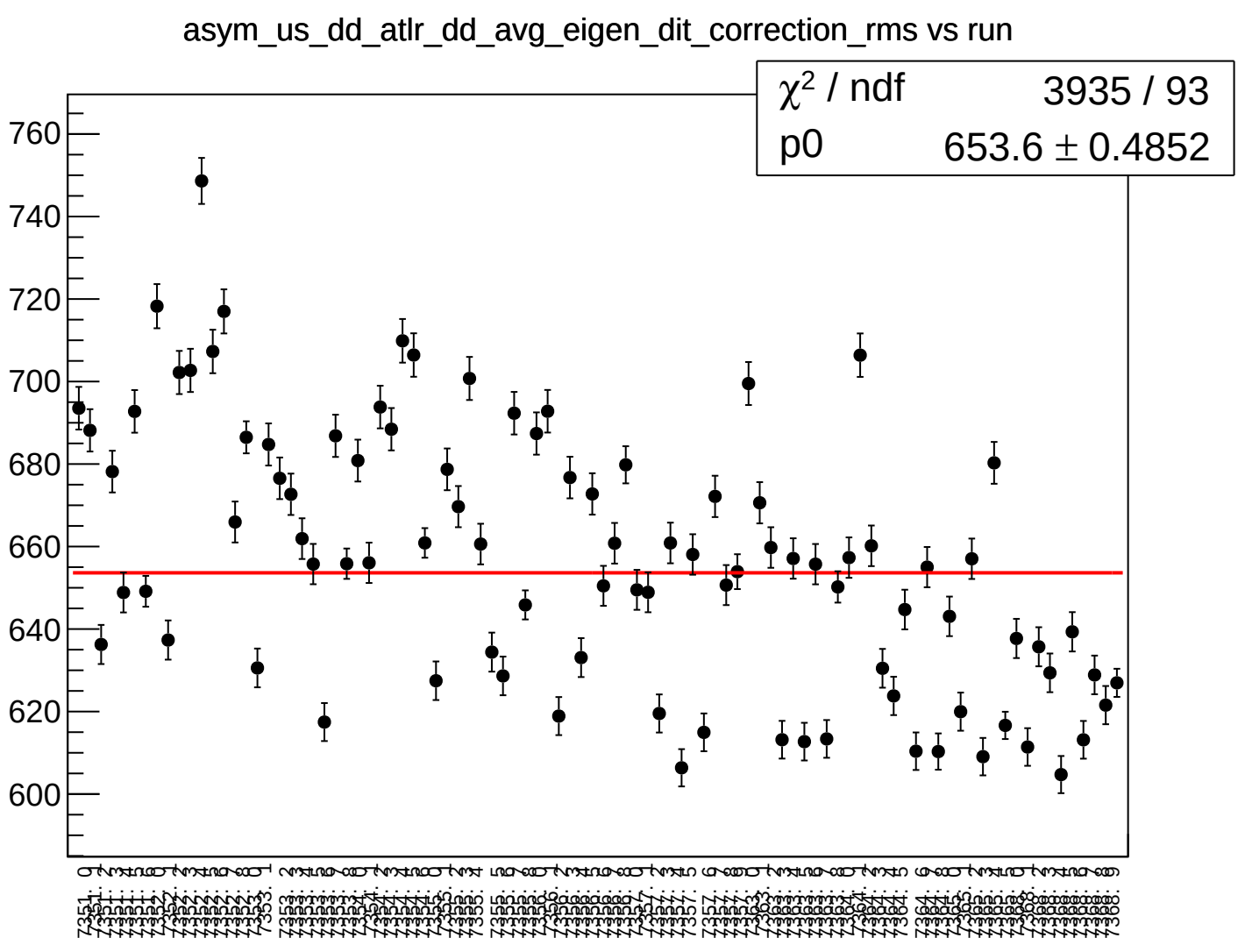

asym_us_dd_atlr_dd_avg_dit_correction_rms vs run
χ² / ndf 3935 / 93
p0 653.6 ± 0.4852
760
740
720
700
680
660
640
620
600

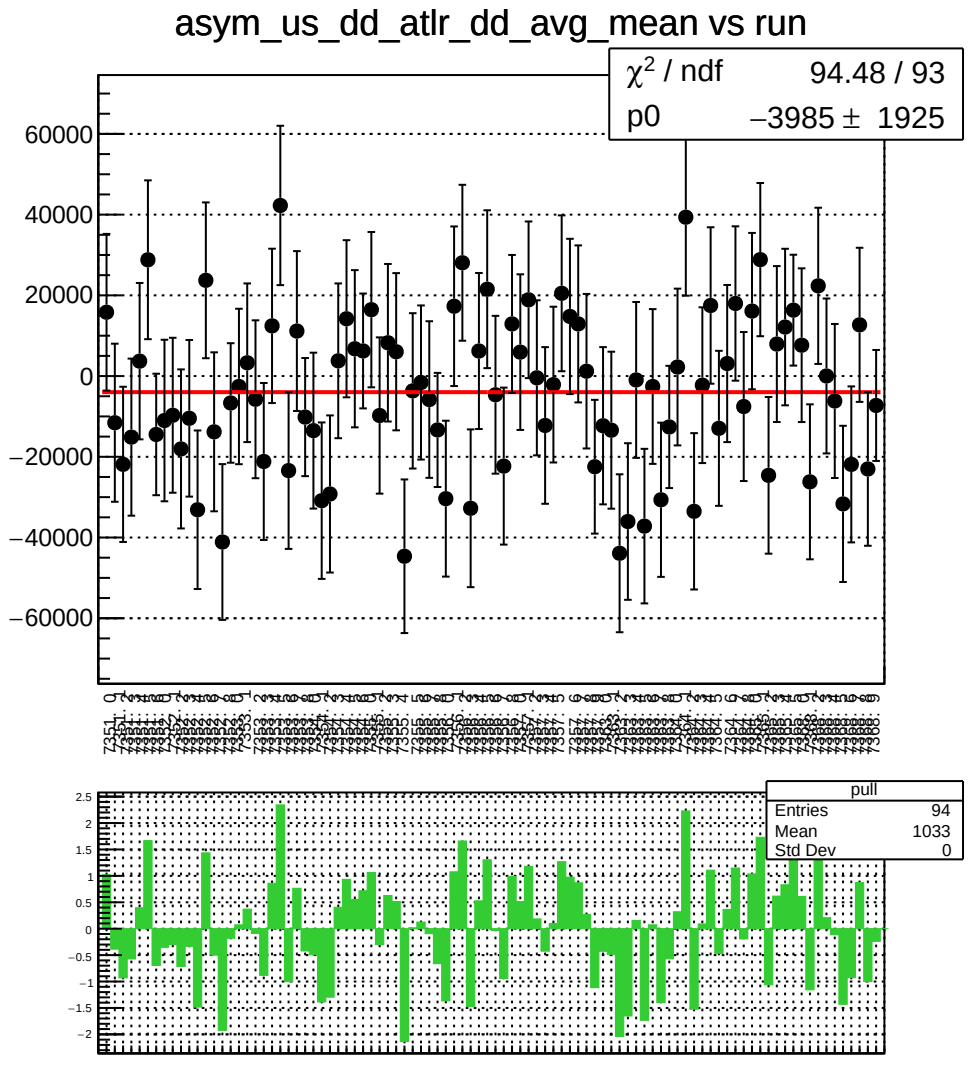

eigen_dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 95.93 / 93
p0 −2949 ± 1858
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean 59.37
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.002904
Std Dev 1.01
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

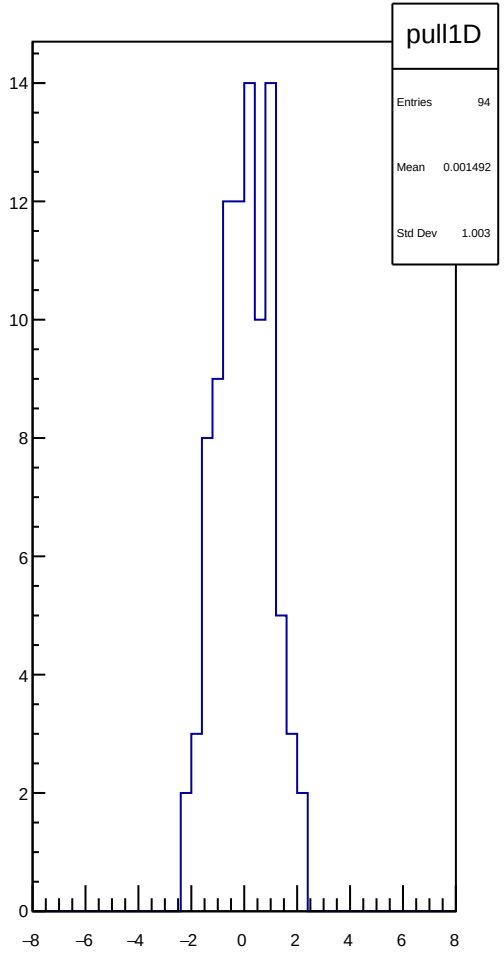

eigen_dit_asym_us_dd_atlr_dd_avg_rms vs run
χ^2 / ndf 225.2 / 93
p0 1771 ± 1.314
1840
1820
1800
1780
1760
1740
1720

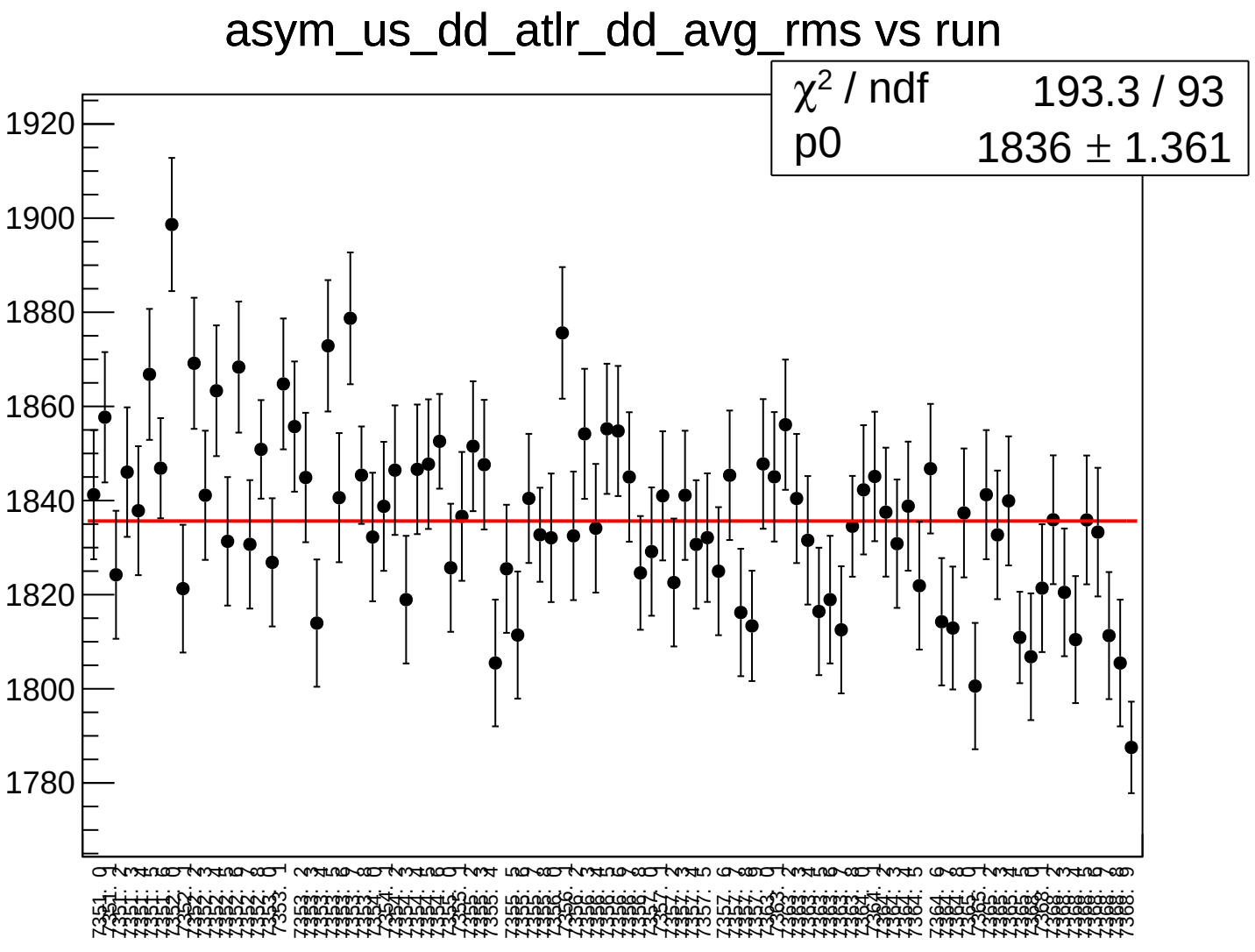

asym_us_dd_atlr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 281.9 / 93
p0 990.4 ± 686.2
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 94
Mean −513.3
Std Dev 0
4
2
0
−2
−4

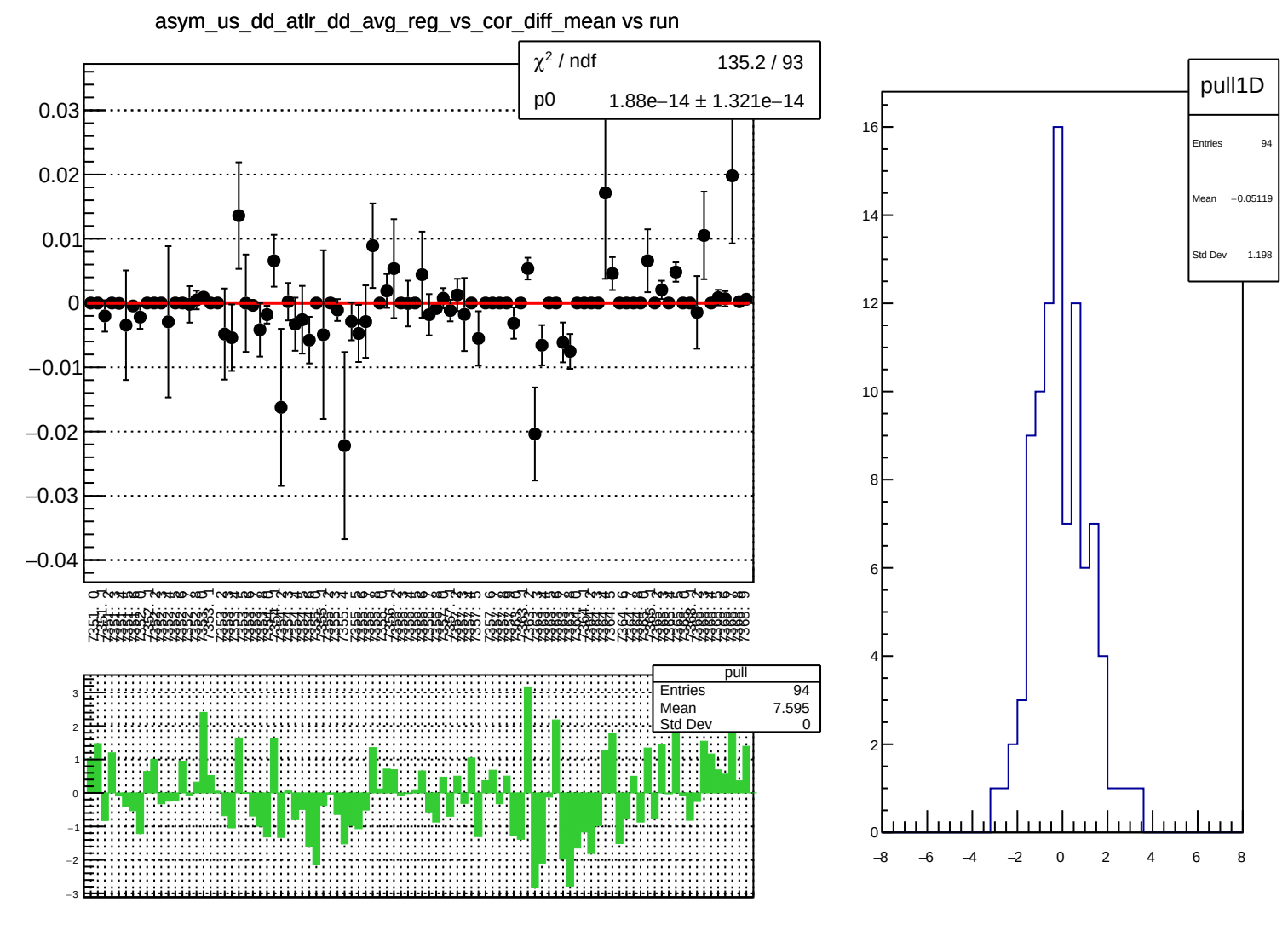

pull1D
Entries 94
Mean 0.00709
Std Dev 1.732
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

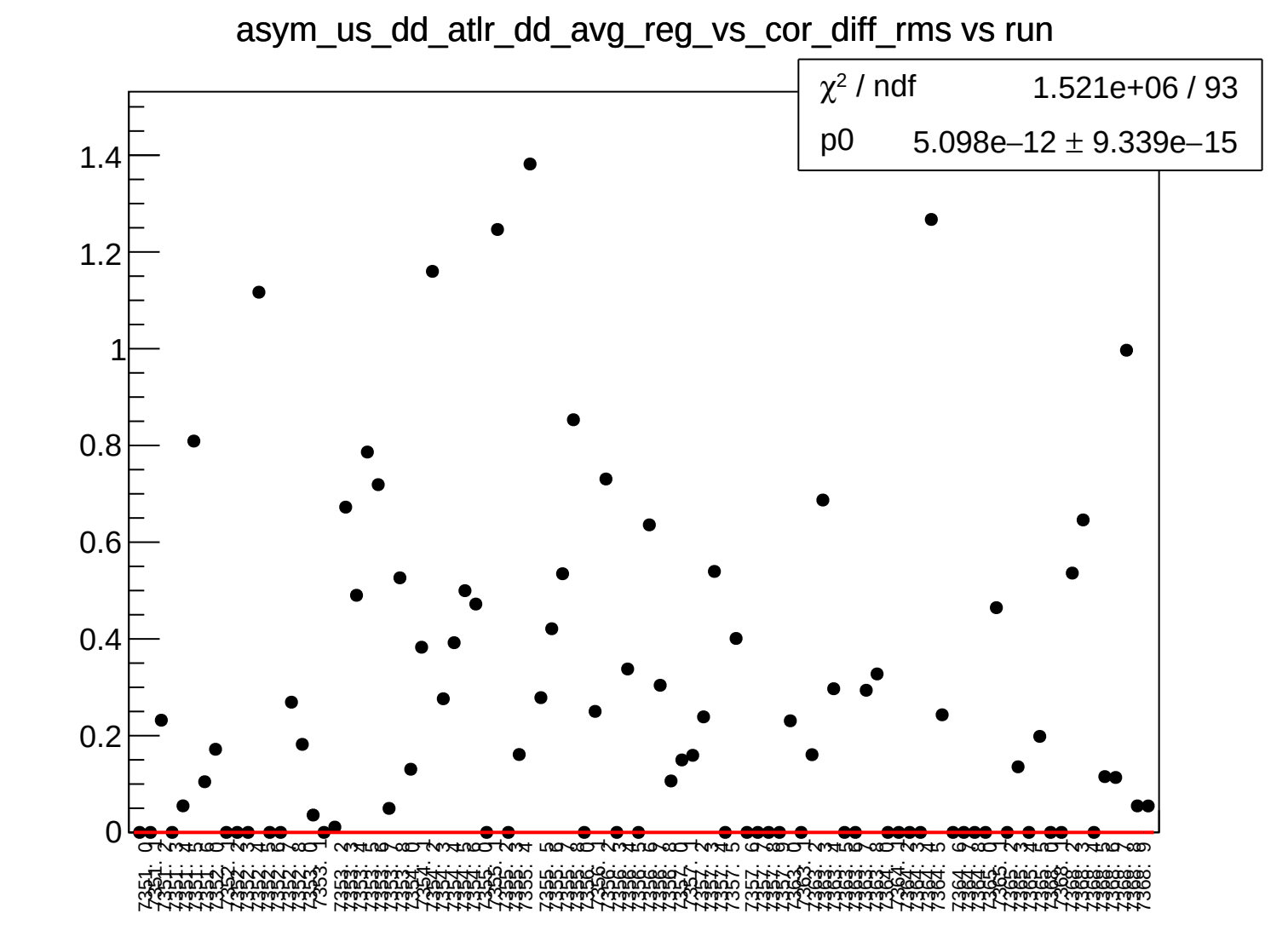

asym_us_dd_atlr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 3935 / 93
p0 653.6 ± 0.4852
760
740
720
700
680
660
640
620
600

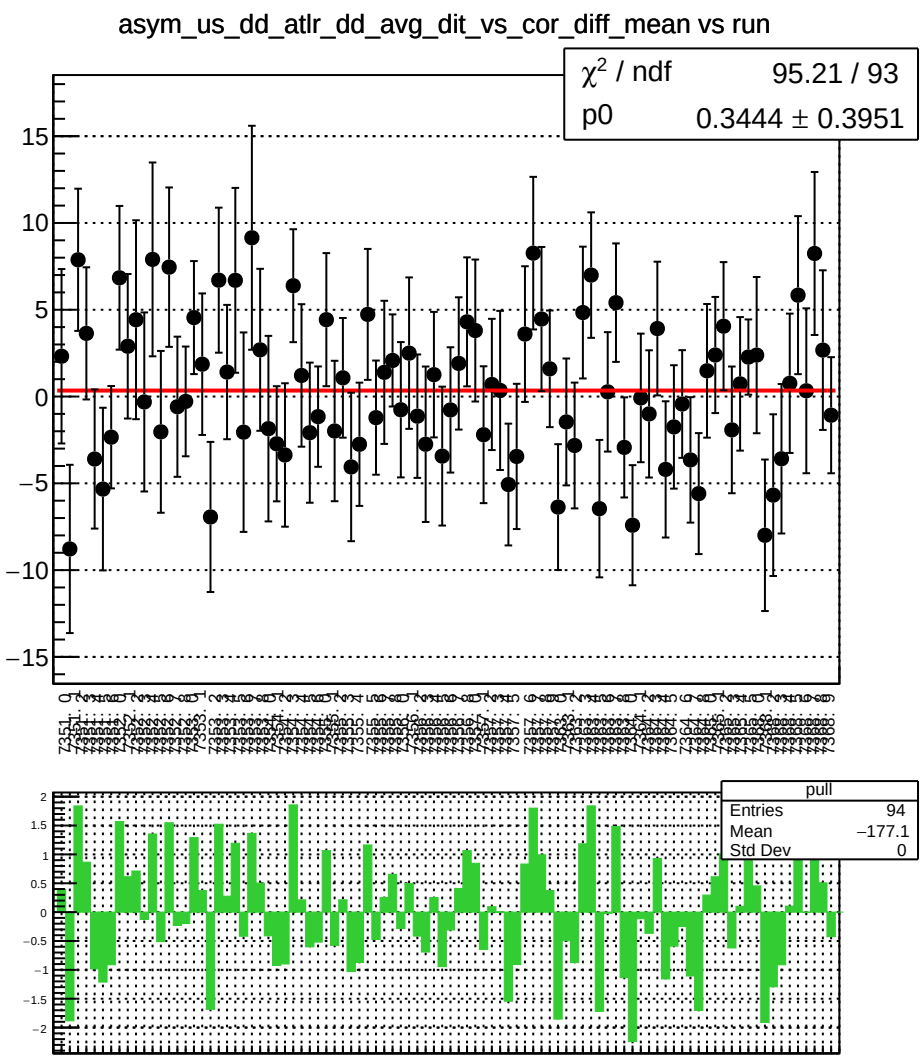

asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 94.48 / 93
p0 −3985 ± 1925
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 1033
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

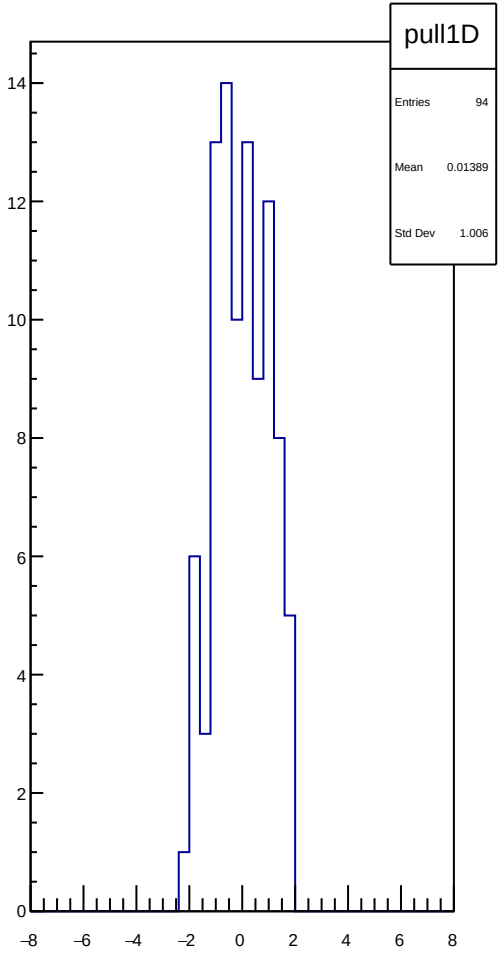

pull1D
Entries 94
Mean 0.001492
Std Dev 1.003
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

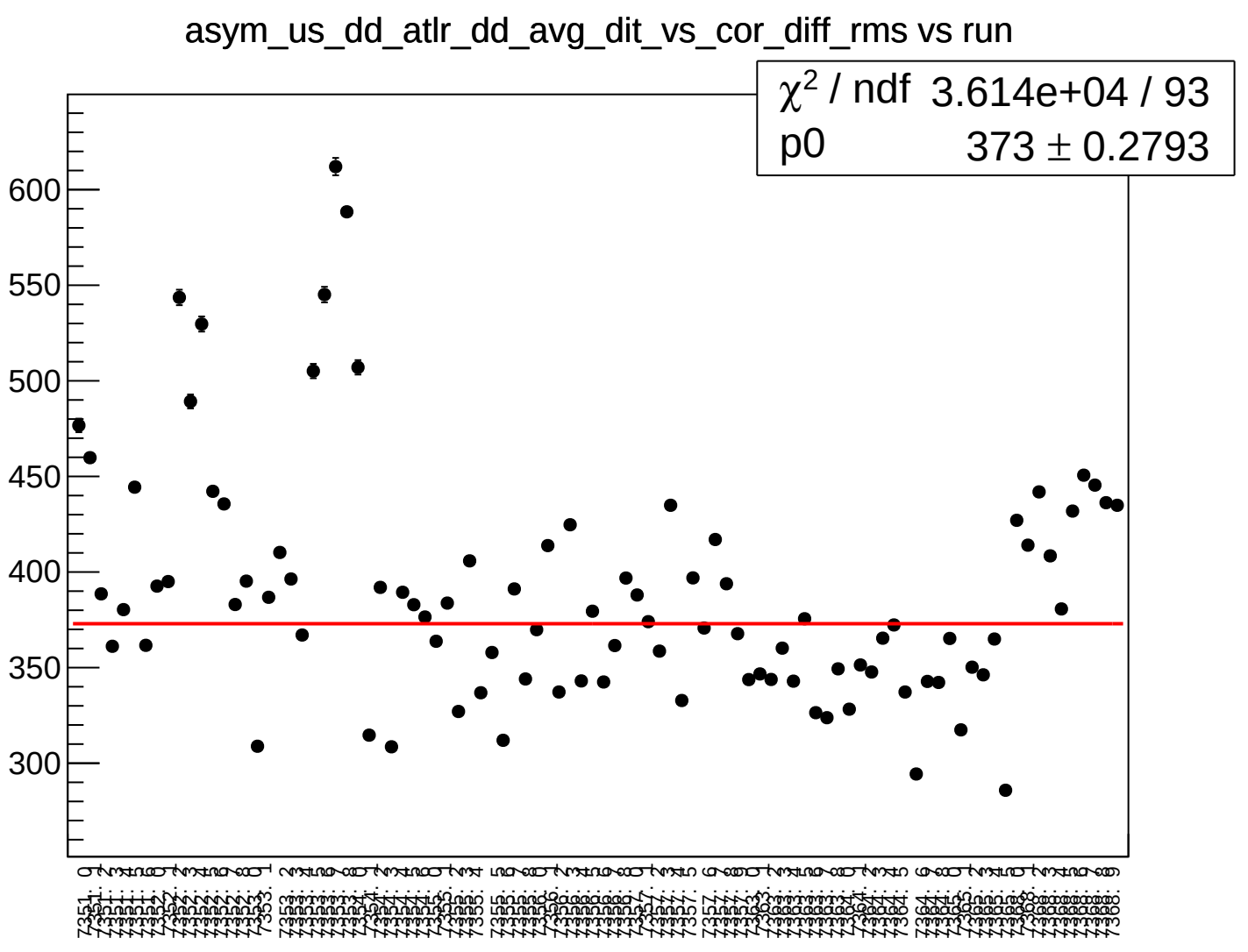

asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 193.3 / 93
p0 1836 ± 1.361
1920
1900
1880
1860
1840
1820
1800
1780

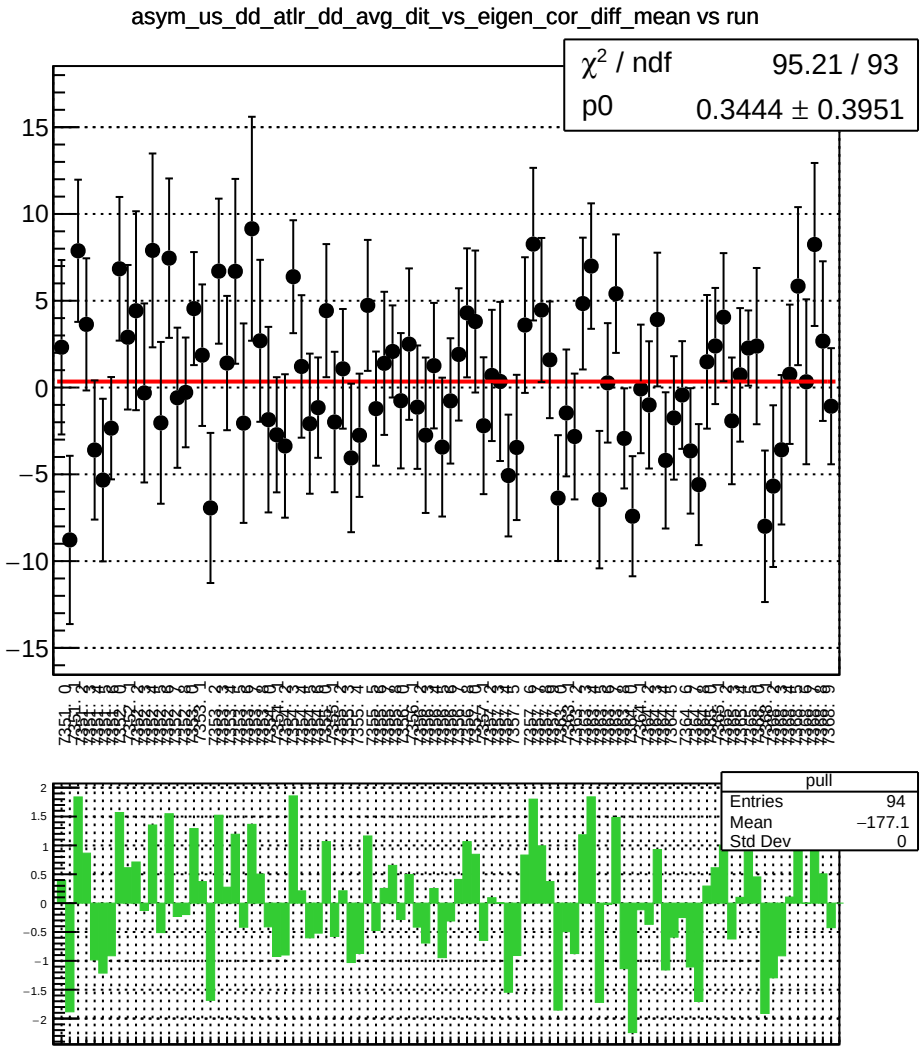

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 135.2 / 93
p0 1.88e−14 ± 1.321e−14
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 94
Mean 7.595
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.05119
Std Dev 1.198
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

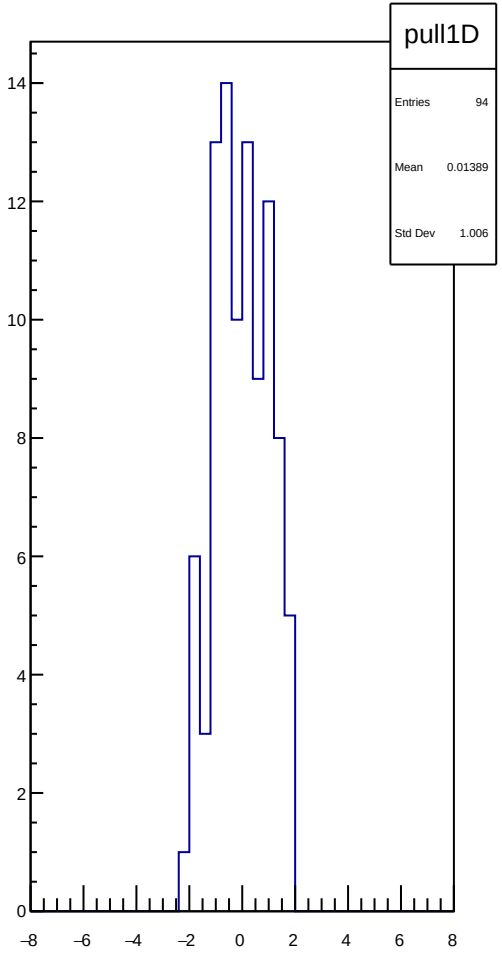

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.521e+06 / 93
p0 5.098e−12 ± 9.339e−15
1.4
1.2
1
0.8
0.6
0.4
0.2
0

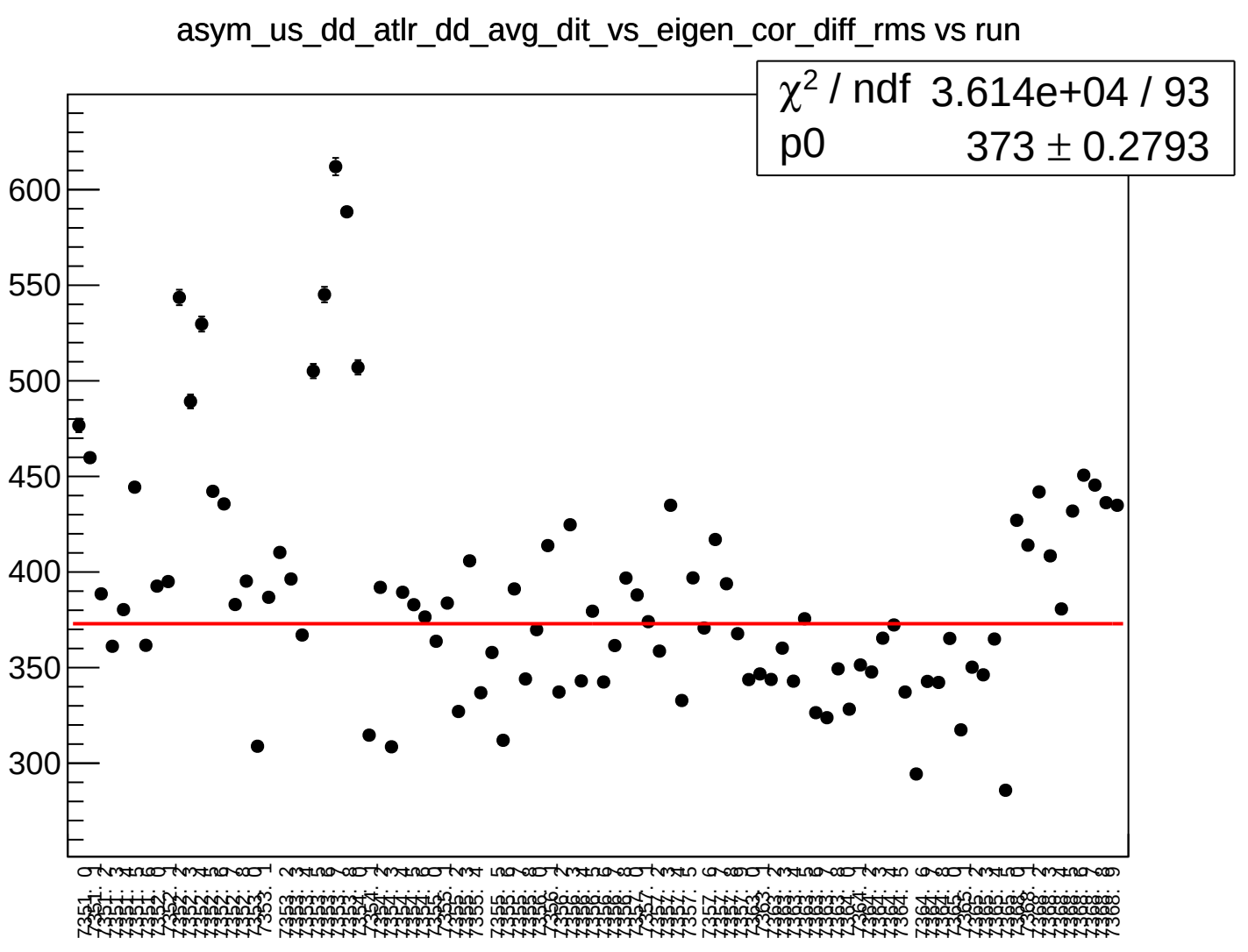

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 95.21 / 93
p0 0.3444 ± 0.3951
pull
Entries 94
Mean −177.1
Std Dev 0

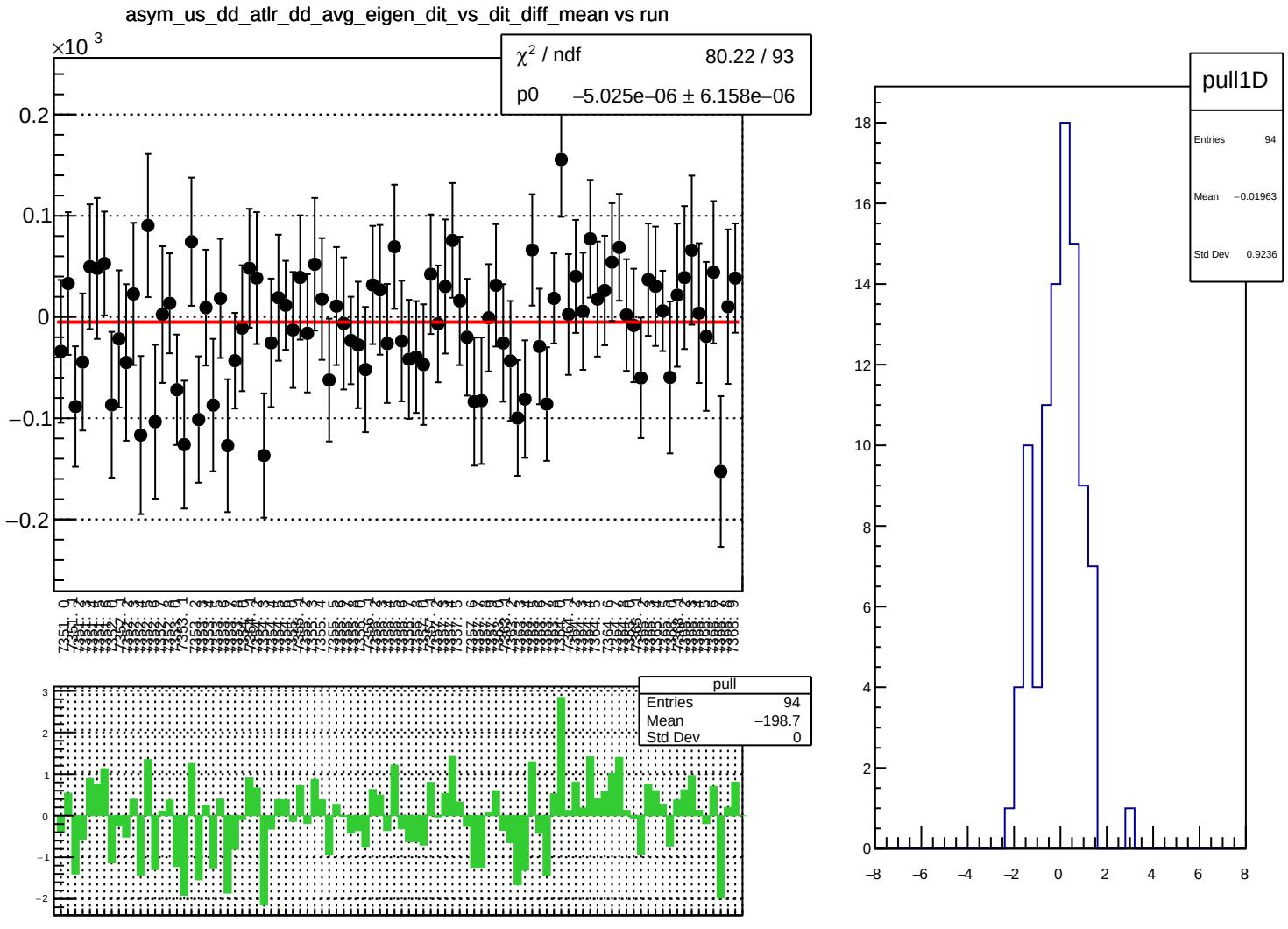

pull1D
Entries 94
Mean 0.01389
Std Dev 1.006

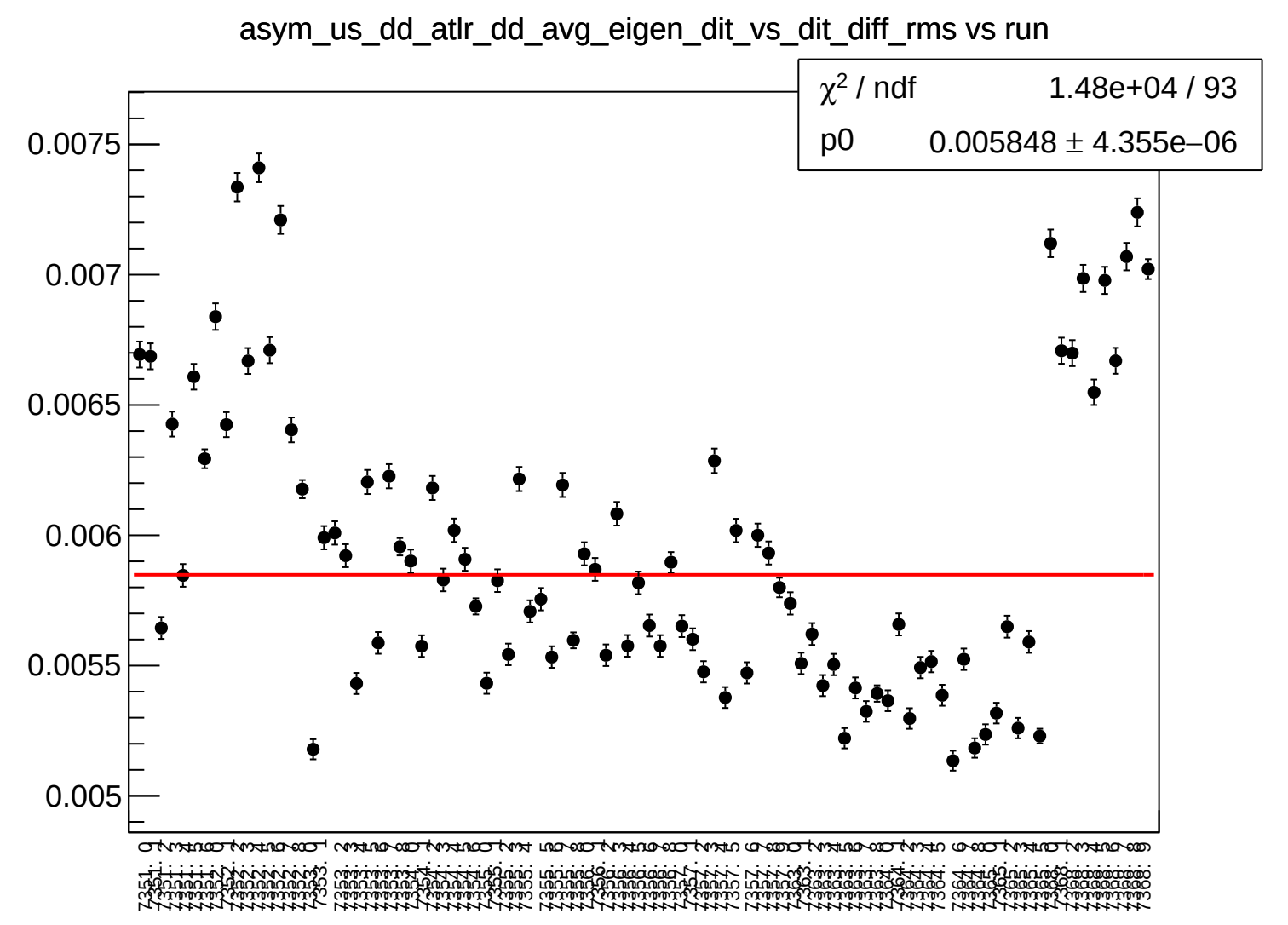

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.614e+04 / 93
p0 373 ± 0.2793
600
550
500
450
400
350
300

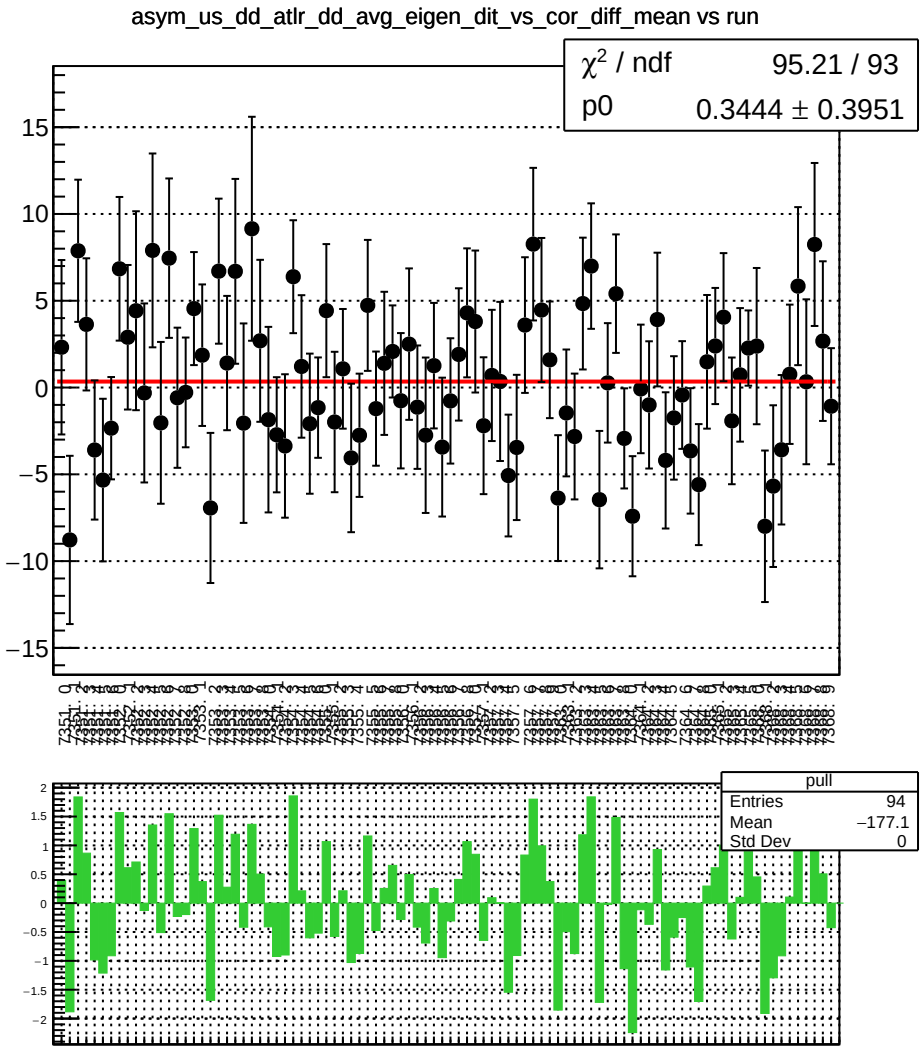

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.21 / 93
p0 0.3444 ± 0.3951
pull
Entries 94
Mean −177.1
Std Dev 0

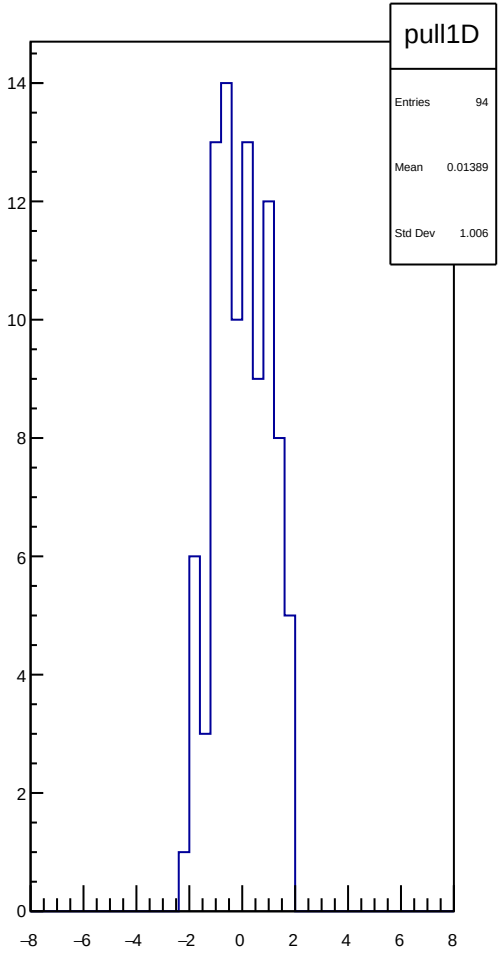

pull1D
Entries 94
Mean 0.01389
Std Dev 1.006

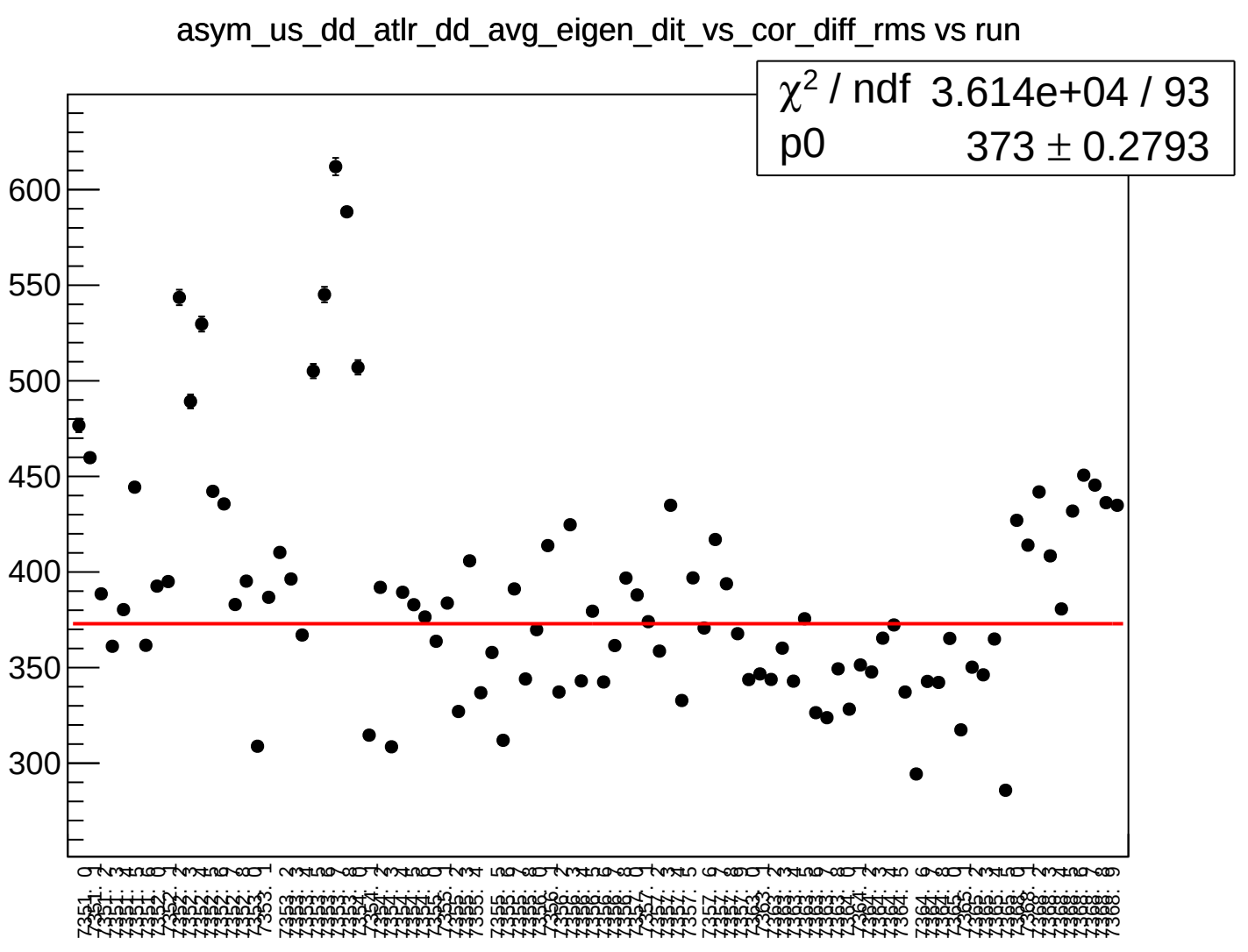

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.614e+04 / 93
p0 373 ± 0.2793
600
550
500
450
400
350
300

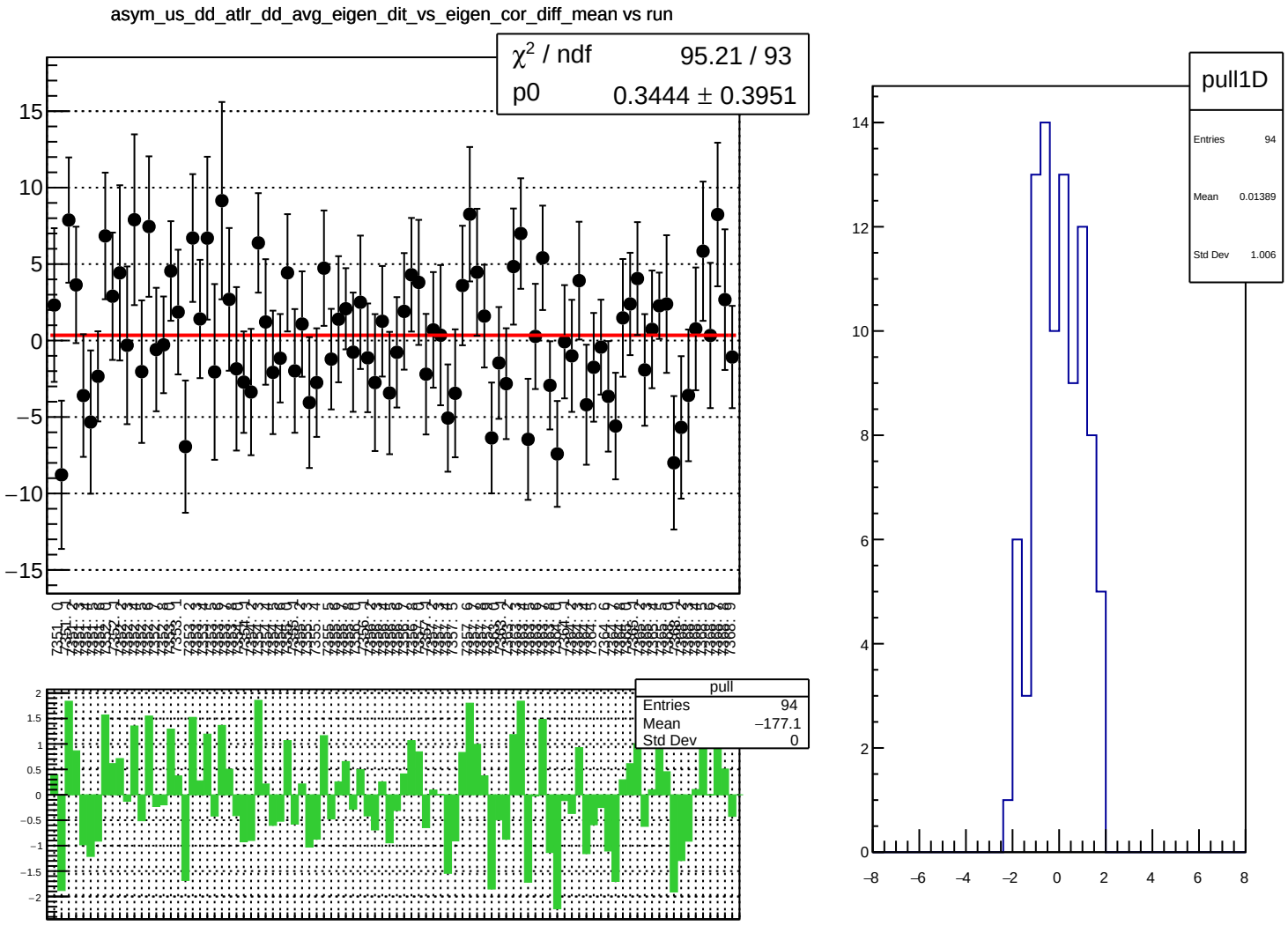

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 80.22 / 93
p0 −5.025e−06 ± 6.158e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 94
Mean −198.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.01963
Std Dev 0.9236
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

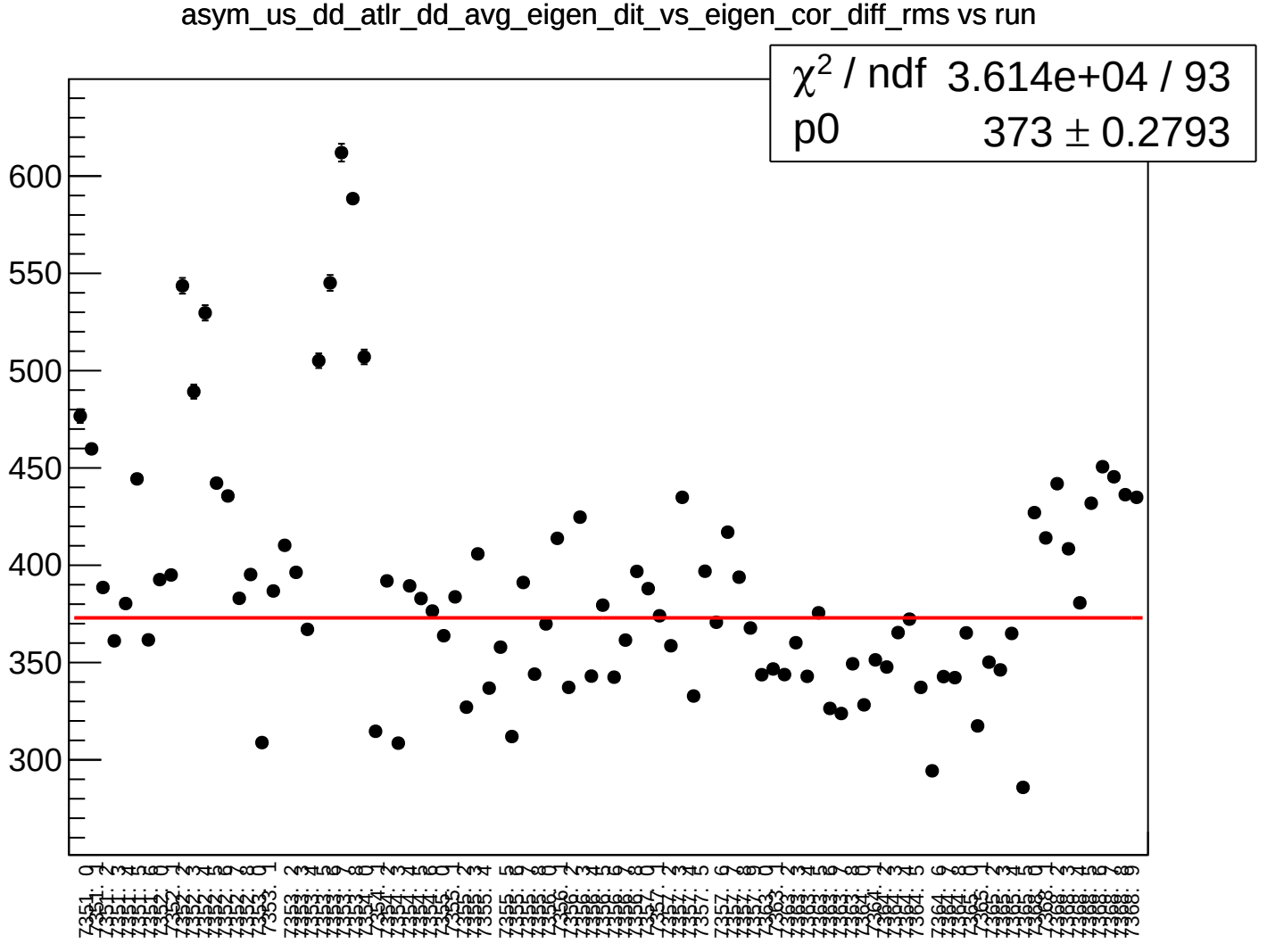

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.48e+04 / 93
p0 0.005848 ± 4.355e−06
0.0075
0.007
0.0065
0.006
0.0055
0.005

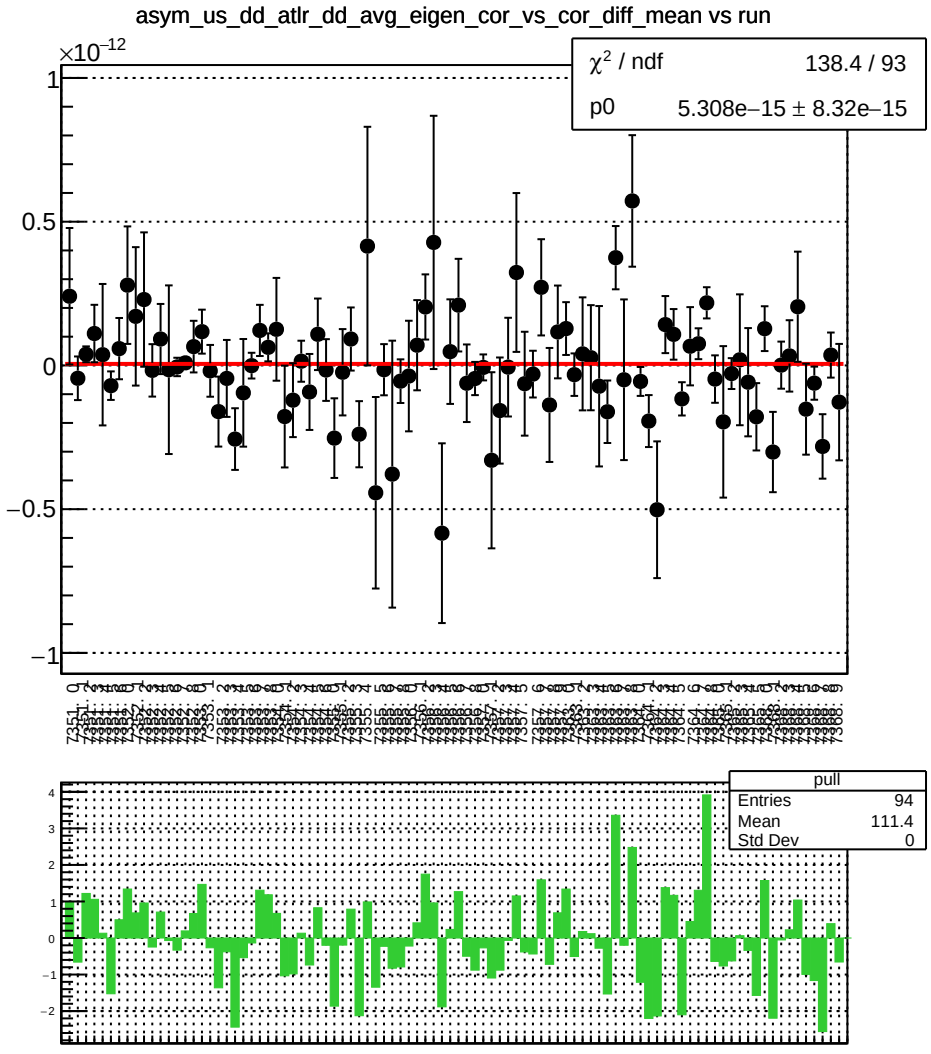

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.21 / 93
p0 0.3444 ± 0.3951
pull
Entries 94
Mean −177.1
Std Dev 0

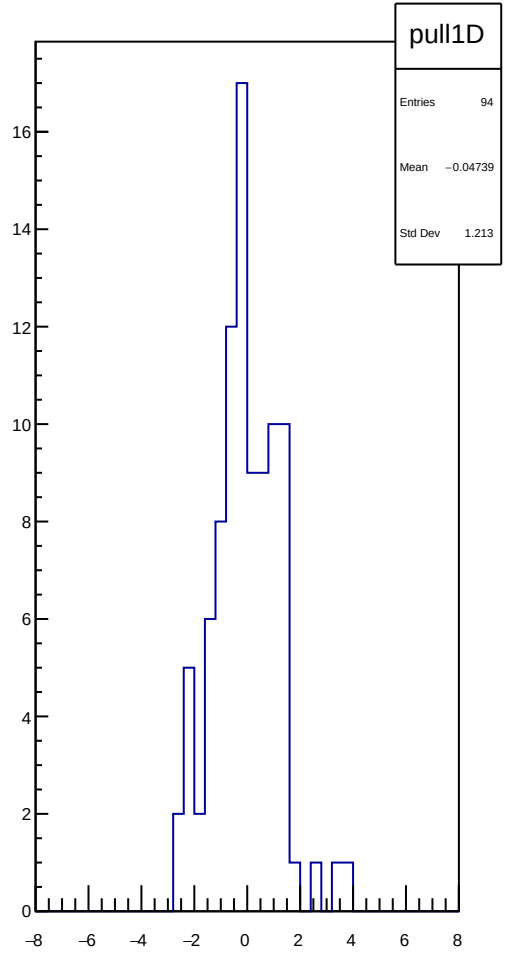

pull1D
Entries 94
Mean 0.01389
Std Dev 1.006

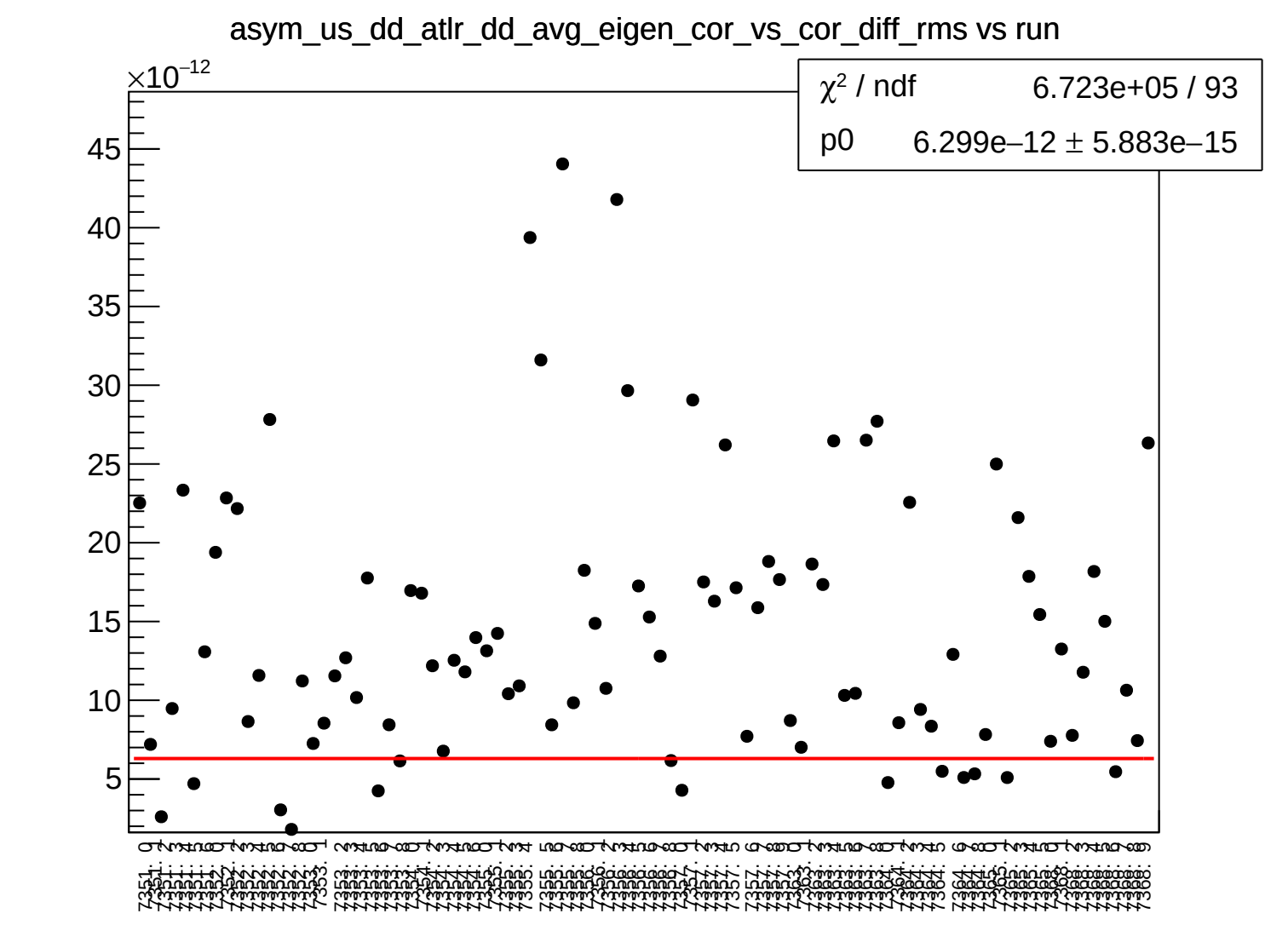

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.614e+04 / 93
p0 373 ± 0.2793
600
550
500
450
400
350
300

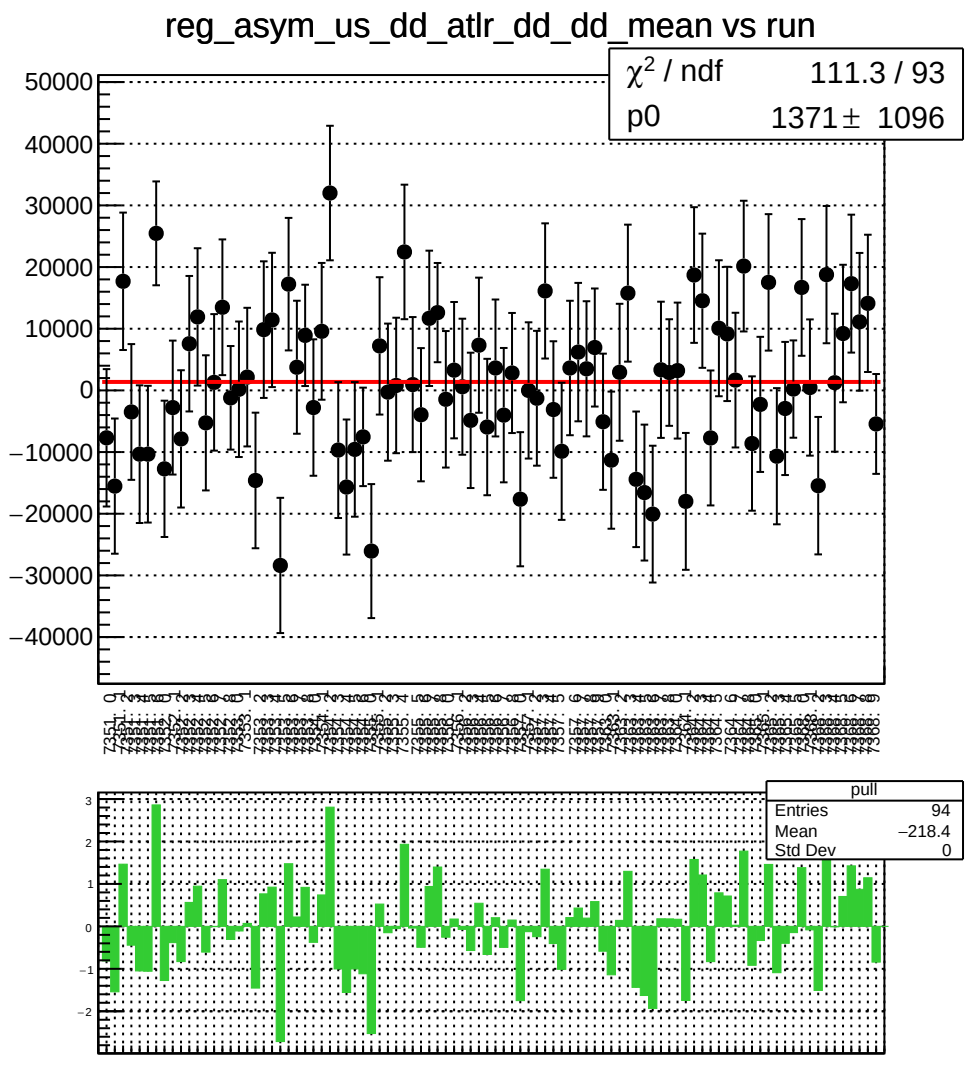

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.21 / 93
p0 0.3444 ± 0.3951
pull
Entries 94
Mean −177.1
Std Dev 0
pull1D
Entries 94
Mean 0.01389
Std Dev 1.006

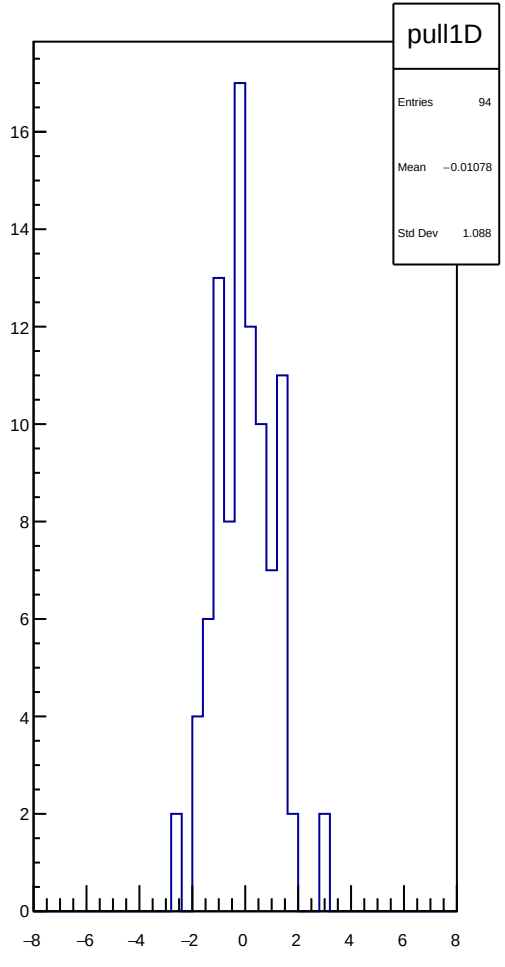

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 3.614e+04 / 93
p0 373 ± 0.2793
600
550
500
450
400
350
300

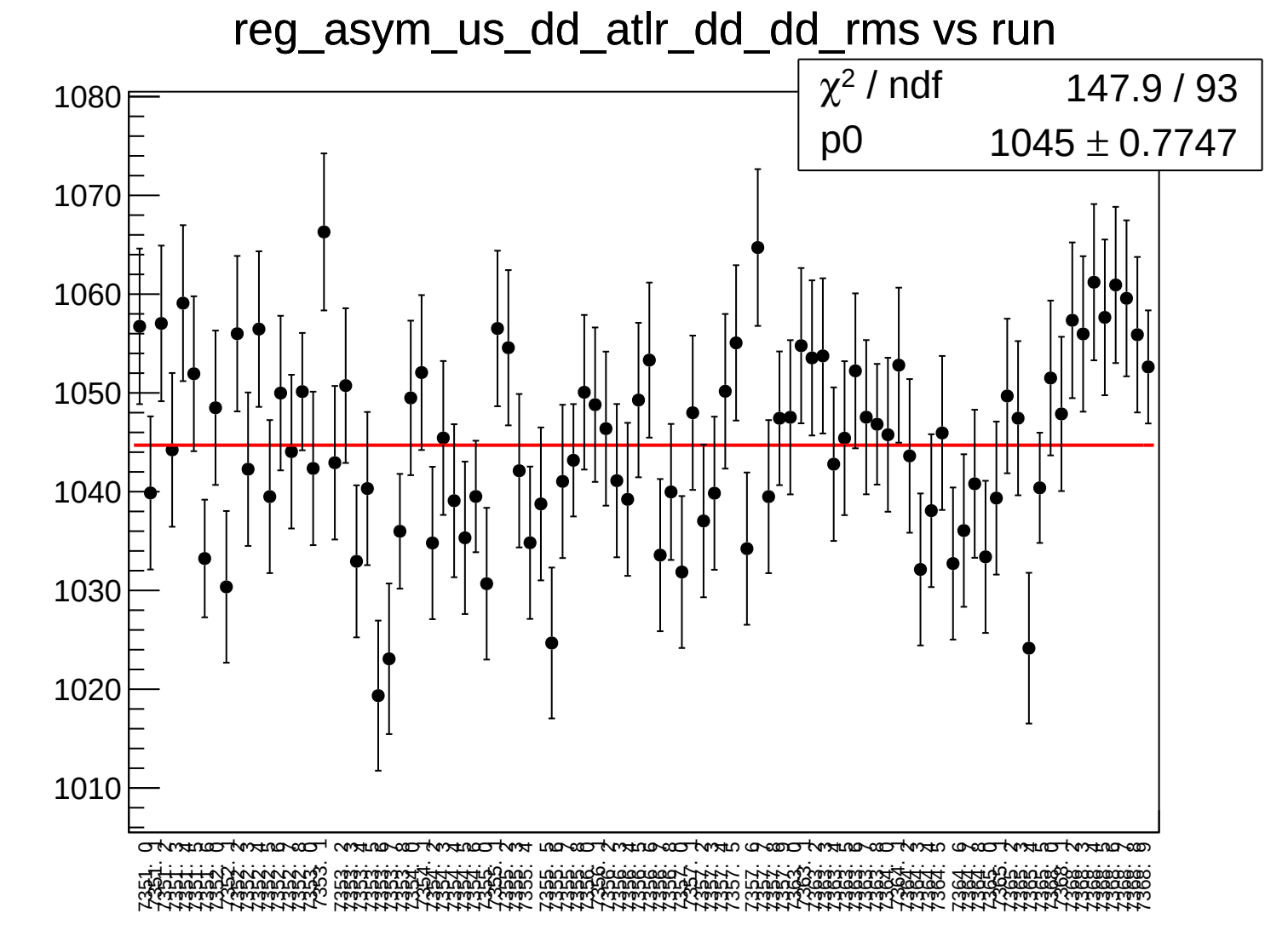

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 138.4 / 93
p0 5.308e−15 ± 8.32e−15
pull
Entries 94
Mean 111.4
Std Dev 0

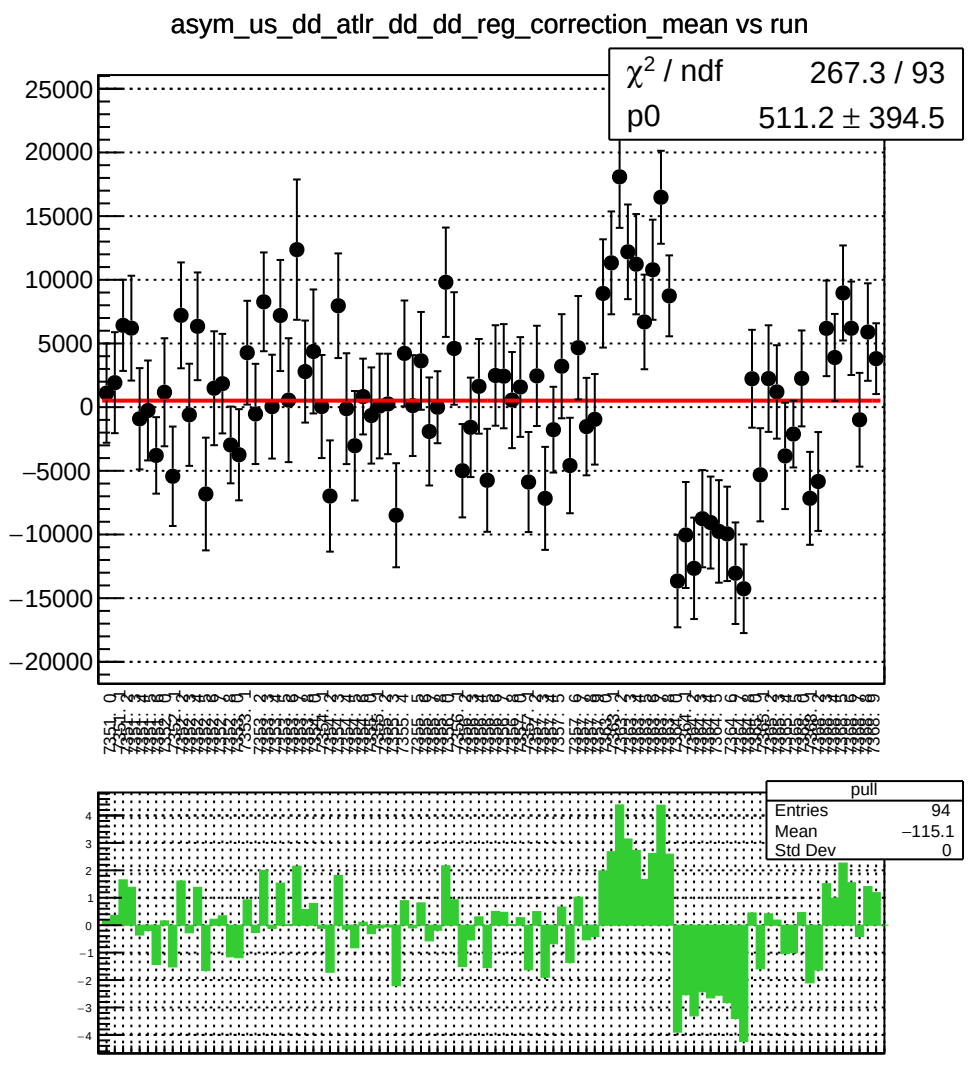

pull1D
Entries 94
Mean −0.04739
Std Dev 1.213

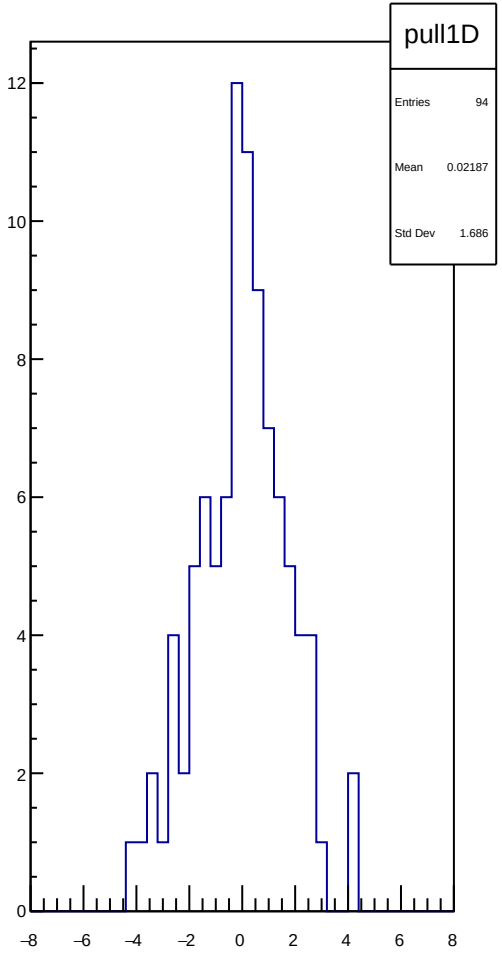

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.723e+05 / 93
p0 6.299e−12 ± 5.883e−15
45
40
35
30
25
20
15
10
5

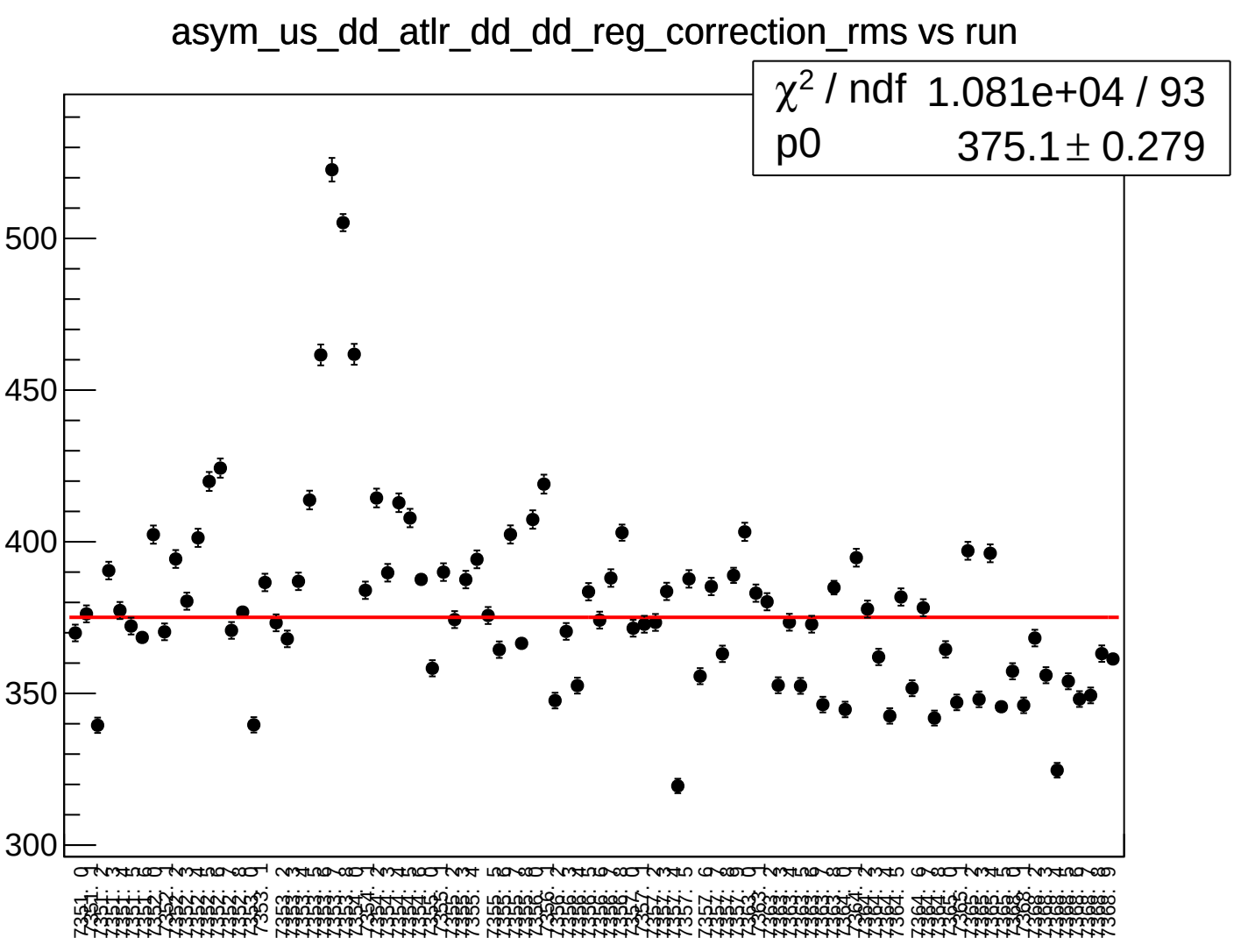

reg_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 111.3 / 93
p0 1371 ± 1096
pull
Entries 94
Mean −218.4
Std Dev 0

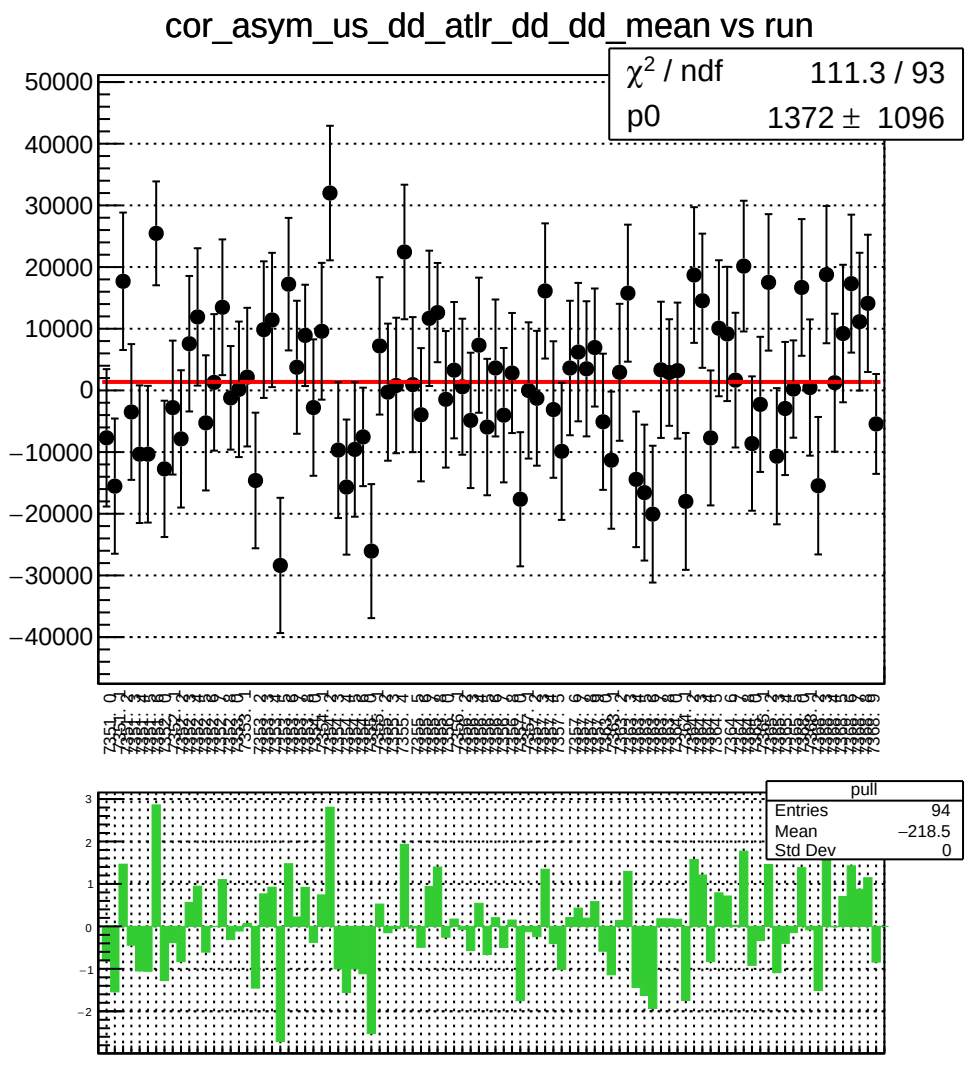

pull1D
Entries 94
Mean −0.01078
Std Dev 1.088

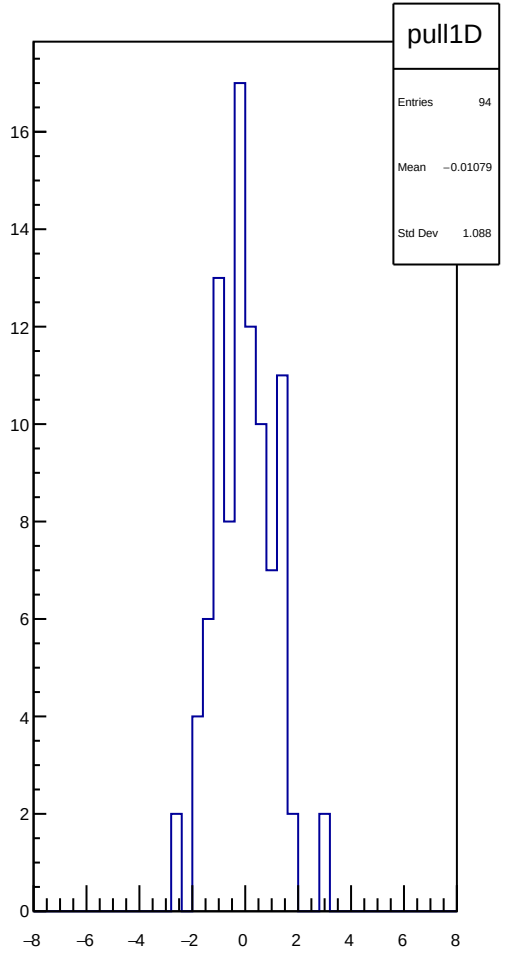

reg_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 147.9 / 93
p0 1045 ± 0.7747
1080
1070
1060
1050
1040
1030
1020
1010

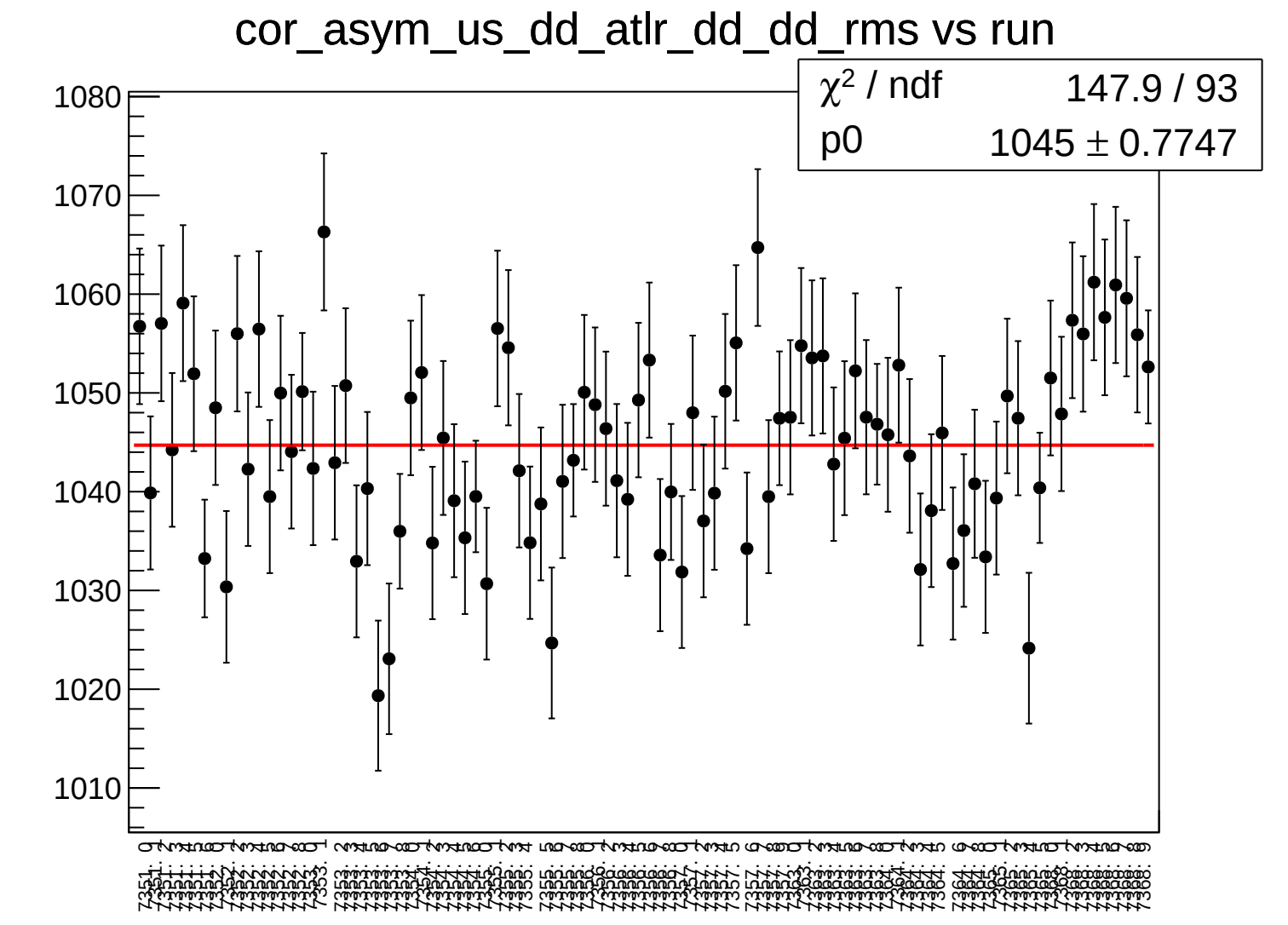

asym_us_dd_atlr_dd_dd_reg_correction_mean vs run
χ² / ndf 267.3 / 93
p0 511.2 ± 394.5
pull
Entries 94
Mean −115.1
Std Dev 0

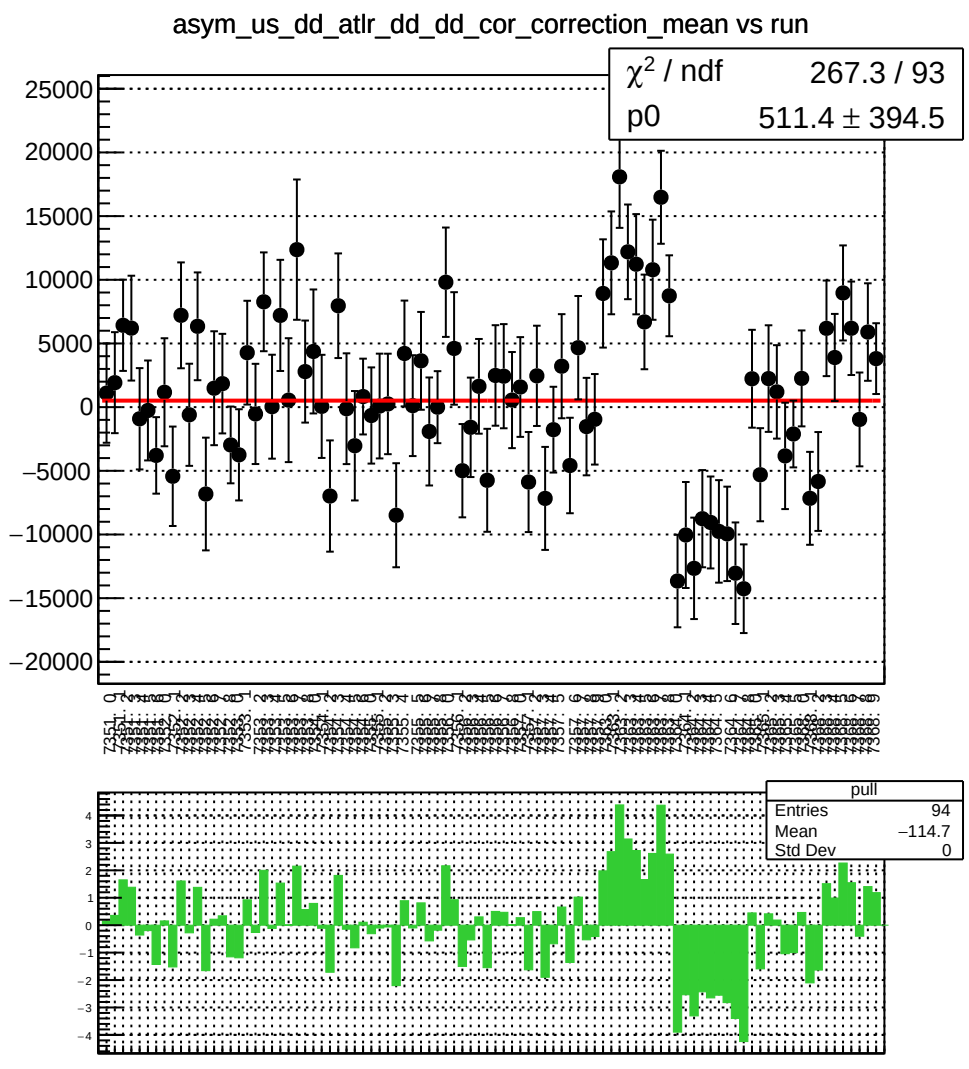

pull1D
Entries 94
Mean 0.02187
Std Dev 1.686

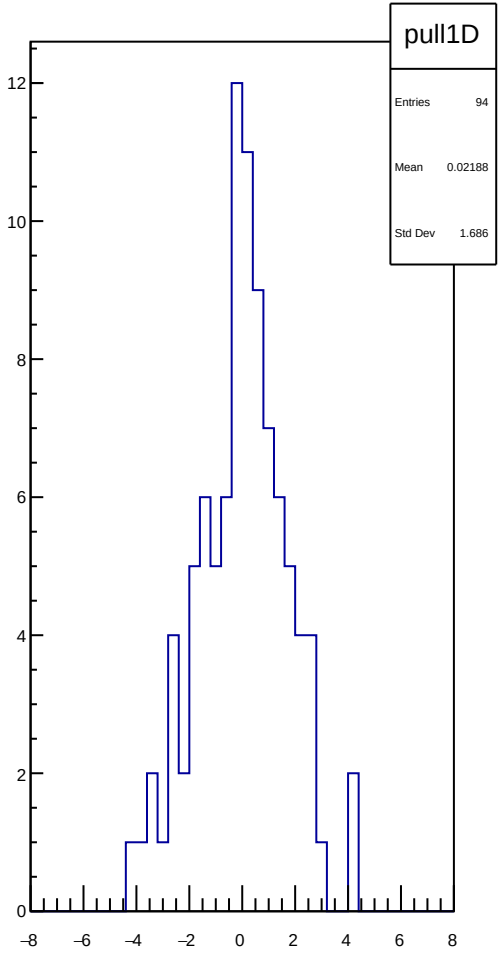

asym_us_dd_atlr_dd_dd_reg_correction_rms vs run
χ² / ndf 1.081e+04 / 93
p0 375.1 ± 0.279
500
450
400
350
300

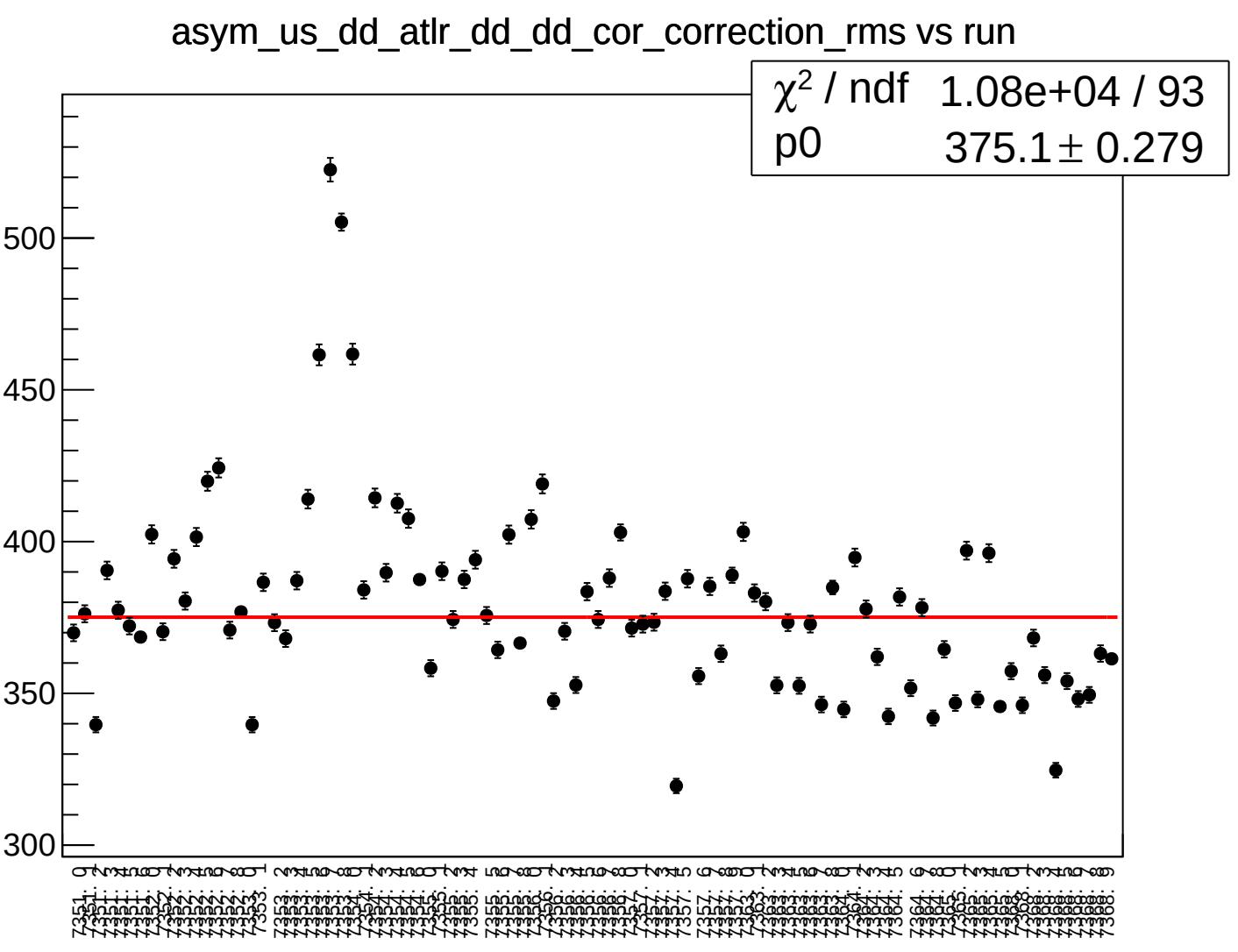

cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 111.3 / 93
p0 1372 ± 1096
pull
Entries 94
Mean −218.5
Std Dev 0

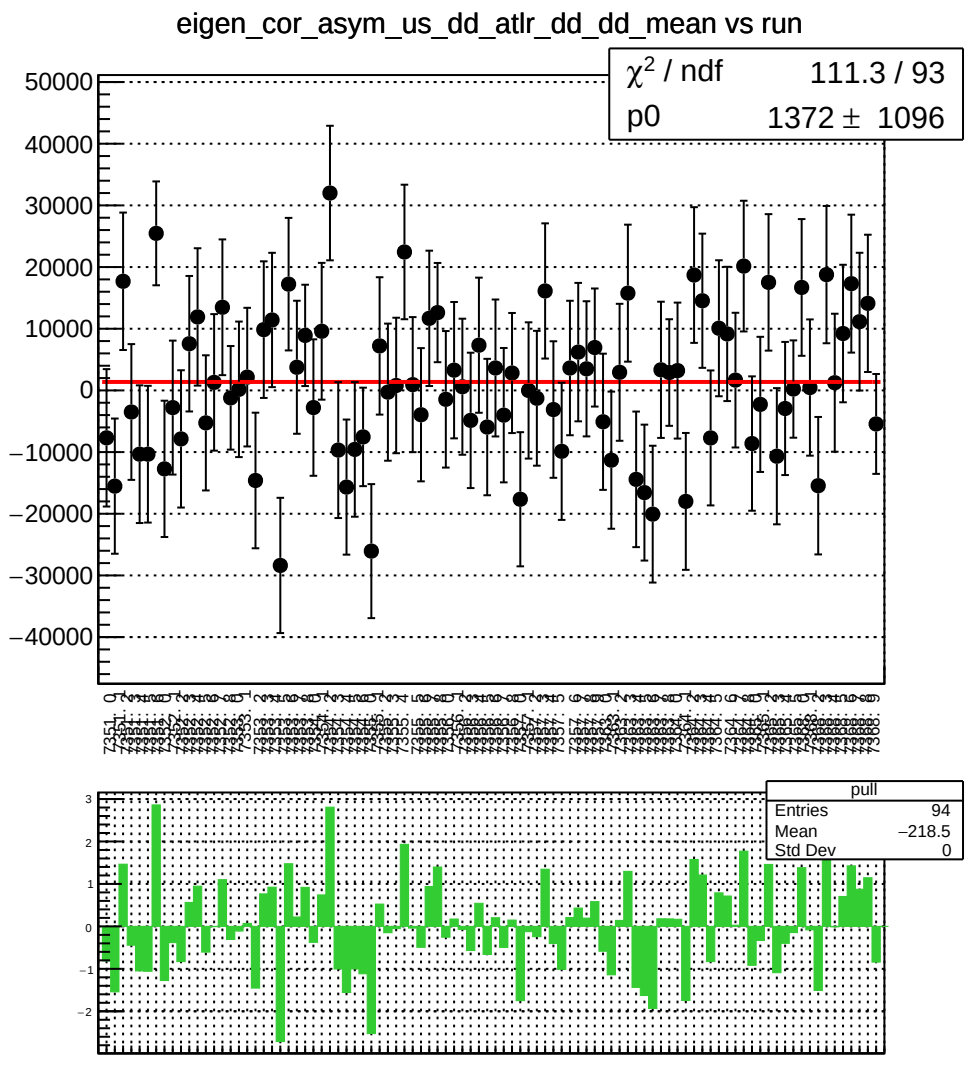

pull1D
Entries 94
Mean −0.01079
Std Dev 1.088

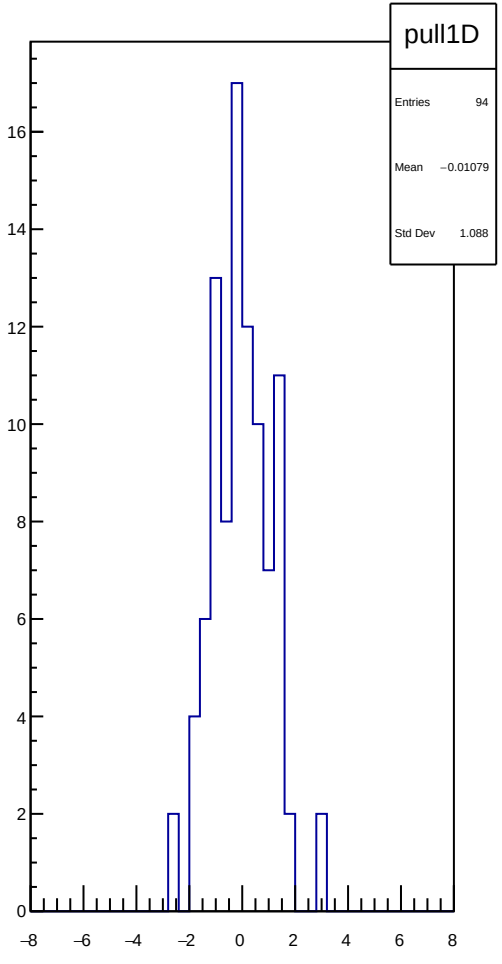

cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 147.9 / 93
p0 1045 ± 0.7747
1080
1070
1060
1050
1040
1030
1020
1010

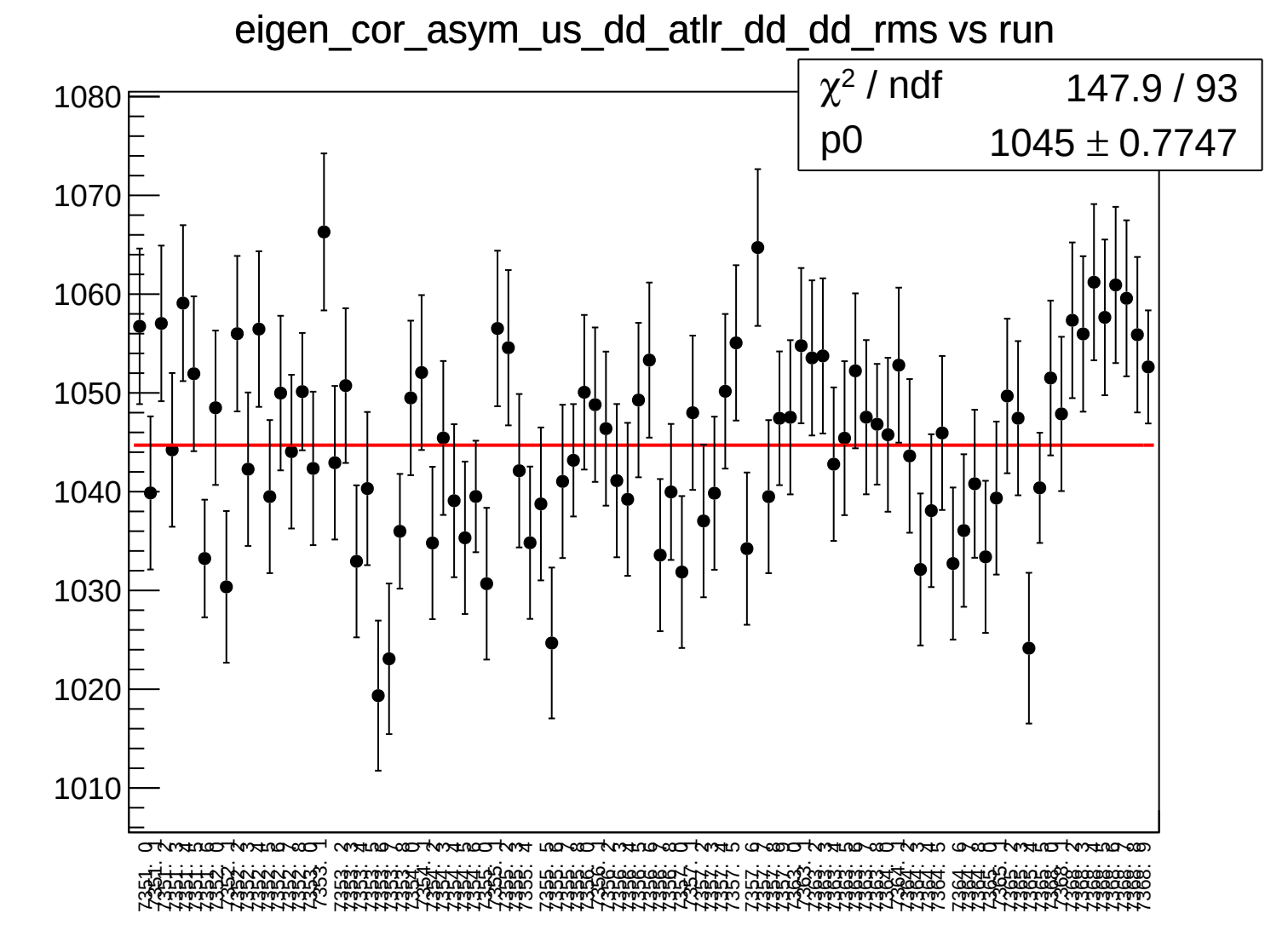

asym_us_dd_atlr_dd_dd_cor_correction_mean vs run
χ² / ndf 267.3 / 93
p0 511.4 ± 394.5
pull
Entries 94
Mean −114.7
Std Dev 0

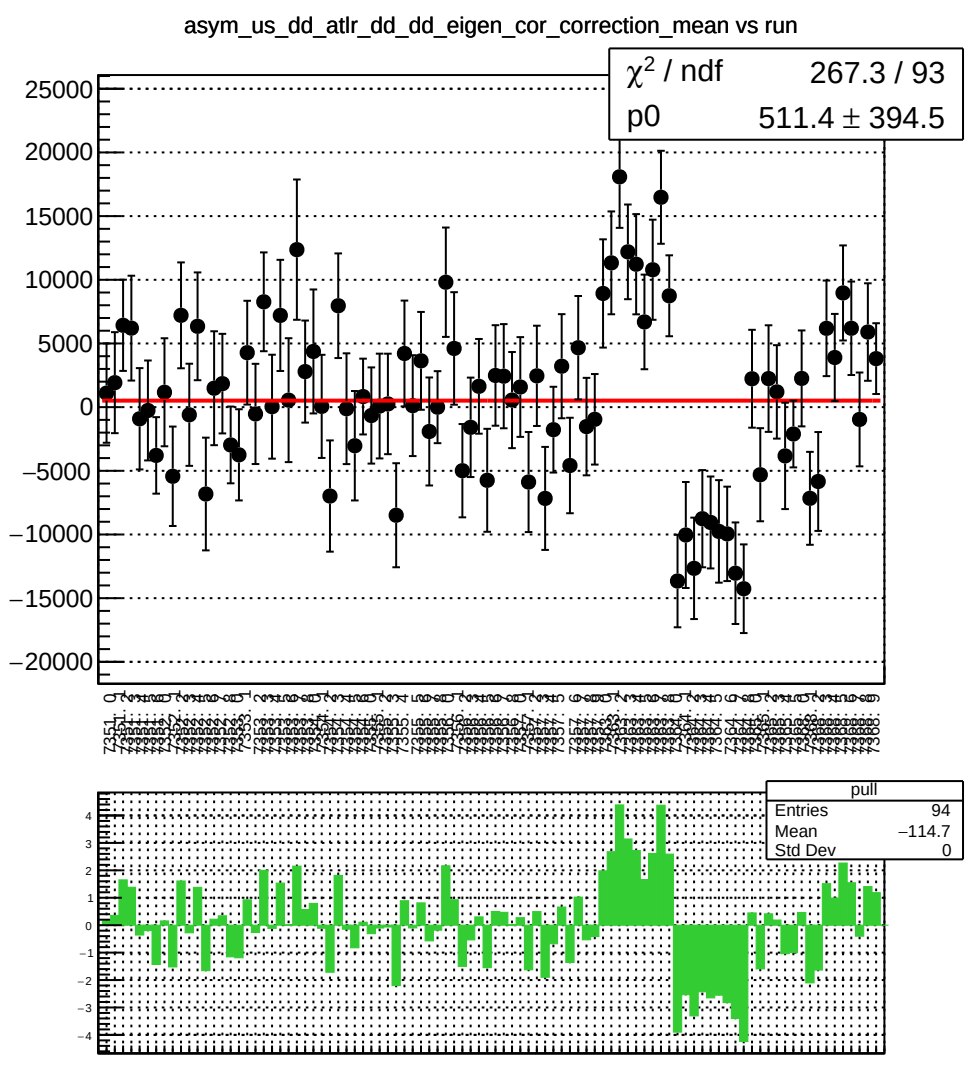

pull1D
Entries 94
Mean 0.02188
Std Dev 1.686

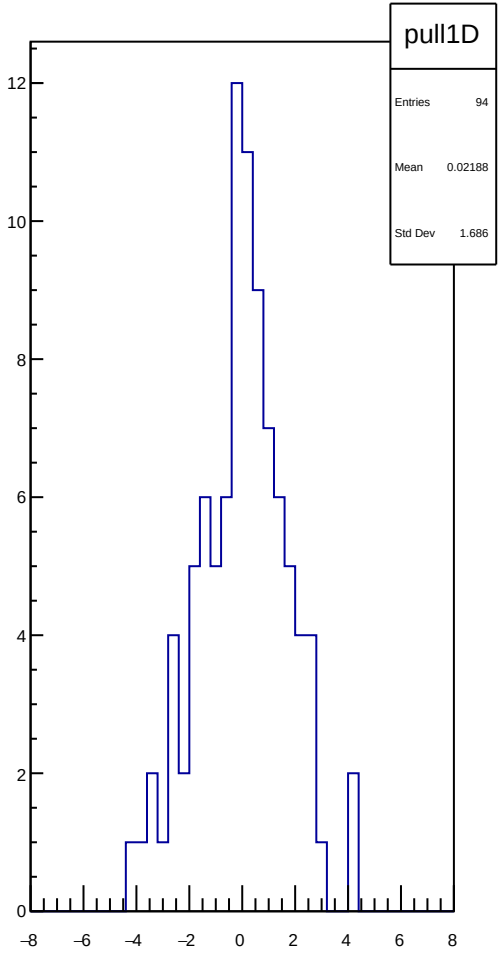

asym_us_dd_atlr_dd_dd_cor_correction_rms vs run
χ² / ndf 1.08e+04 / 93
p0 375.1 ± 0.279
500
450
400
350
300

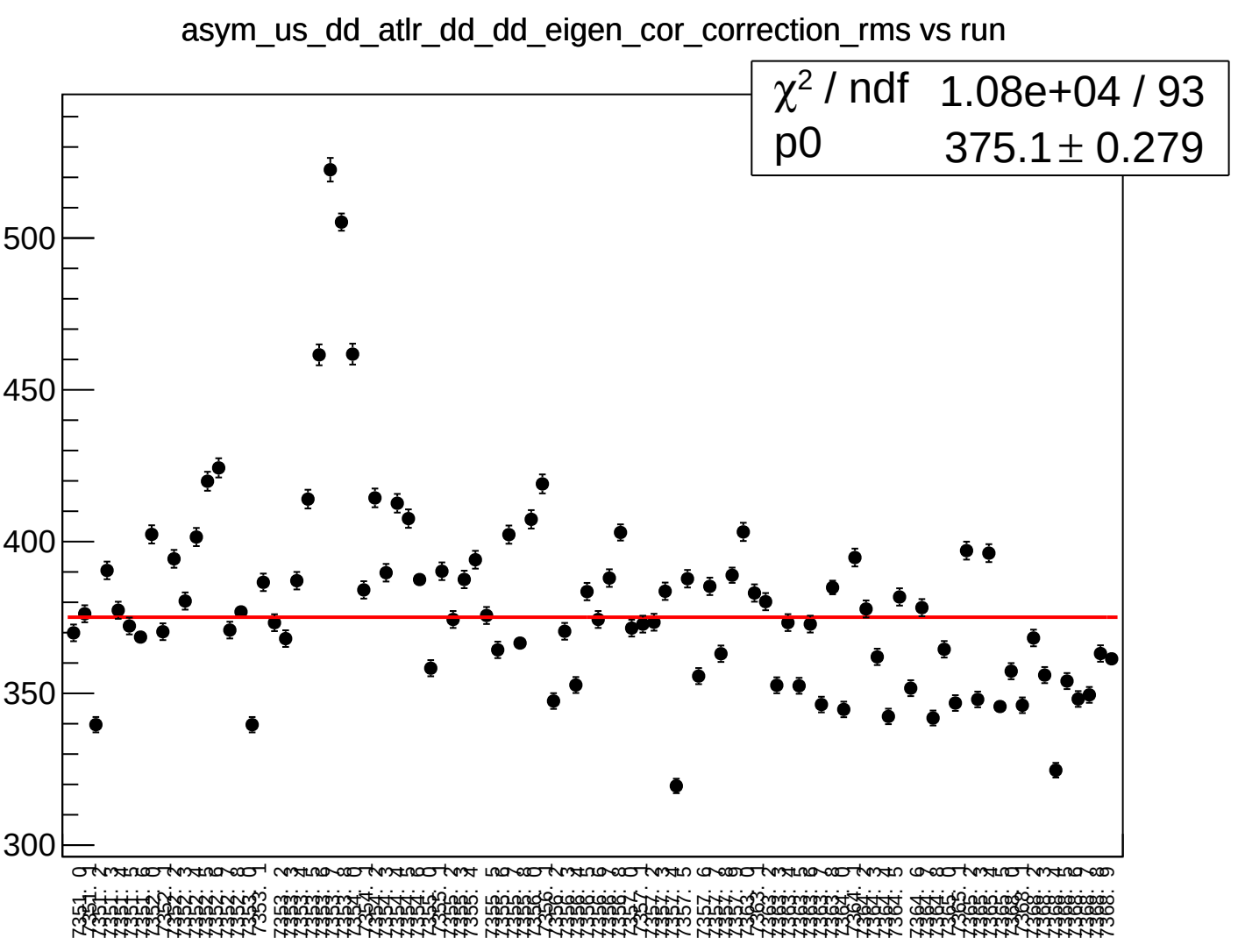

eigen_cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 111.3 / 93
p0 1372 ± 1096
pull
Entries 94
Mean −218.5
Std Dev 0

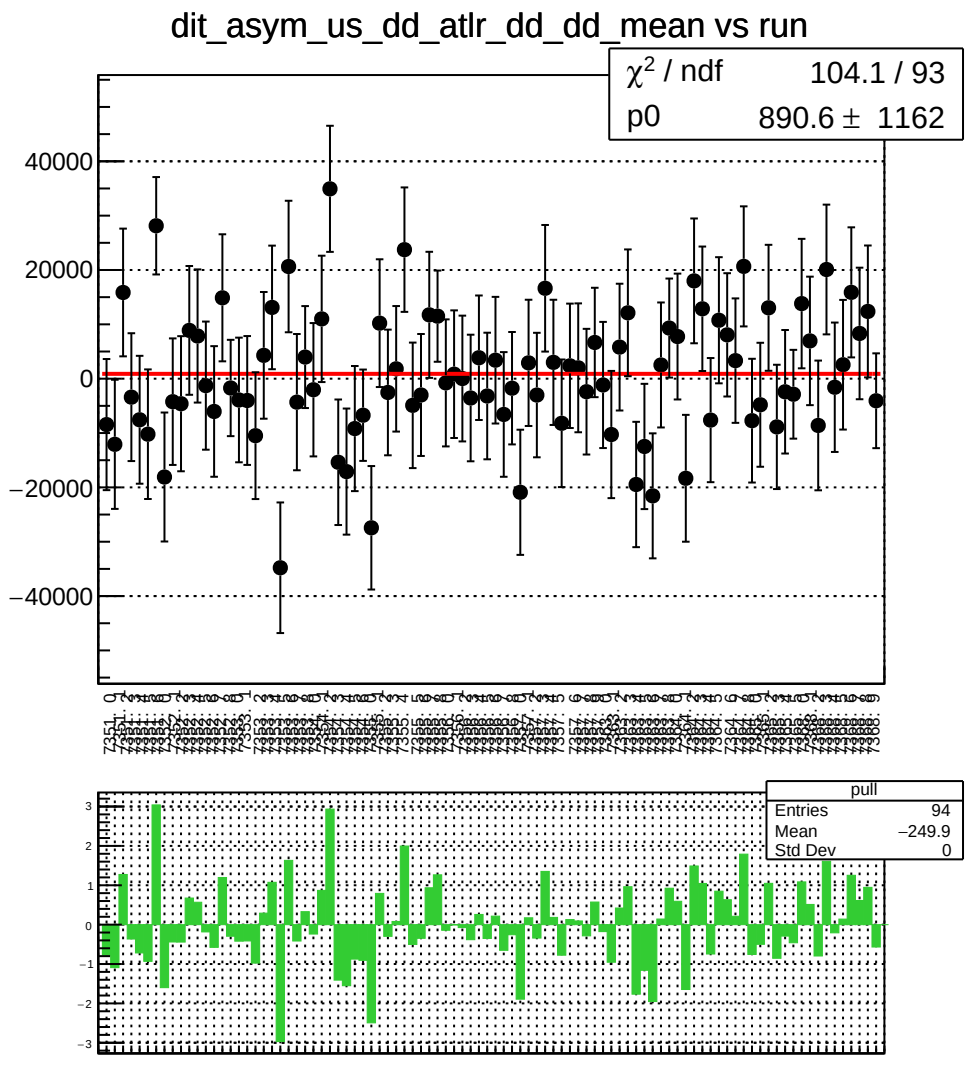

pull1D
Entries 94
Mean −0.01079
Std Dev 1.088

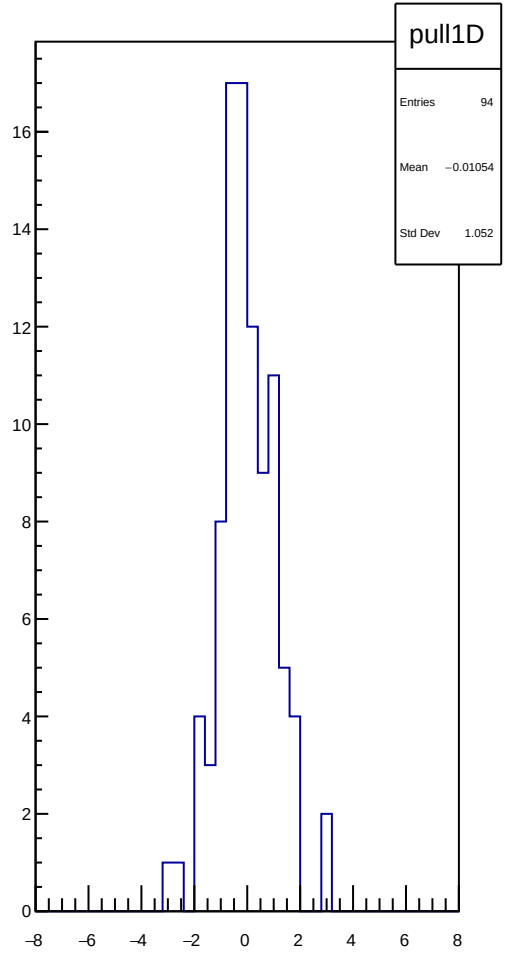

eigen_cor_asym_us_dd_atlr_dd_dd_rms vs run
χ^2 / ndf 147.9 / 93
p0 1045 ± 0.7747
1080
1070
1060
1050
1040
1030
1020
1010

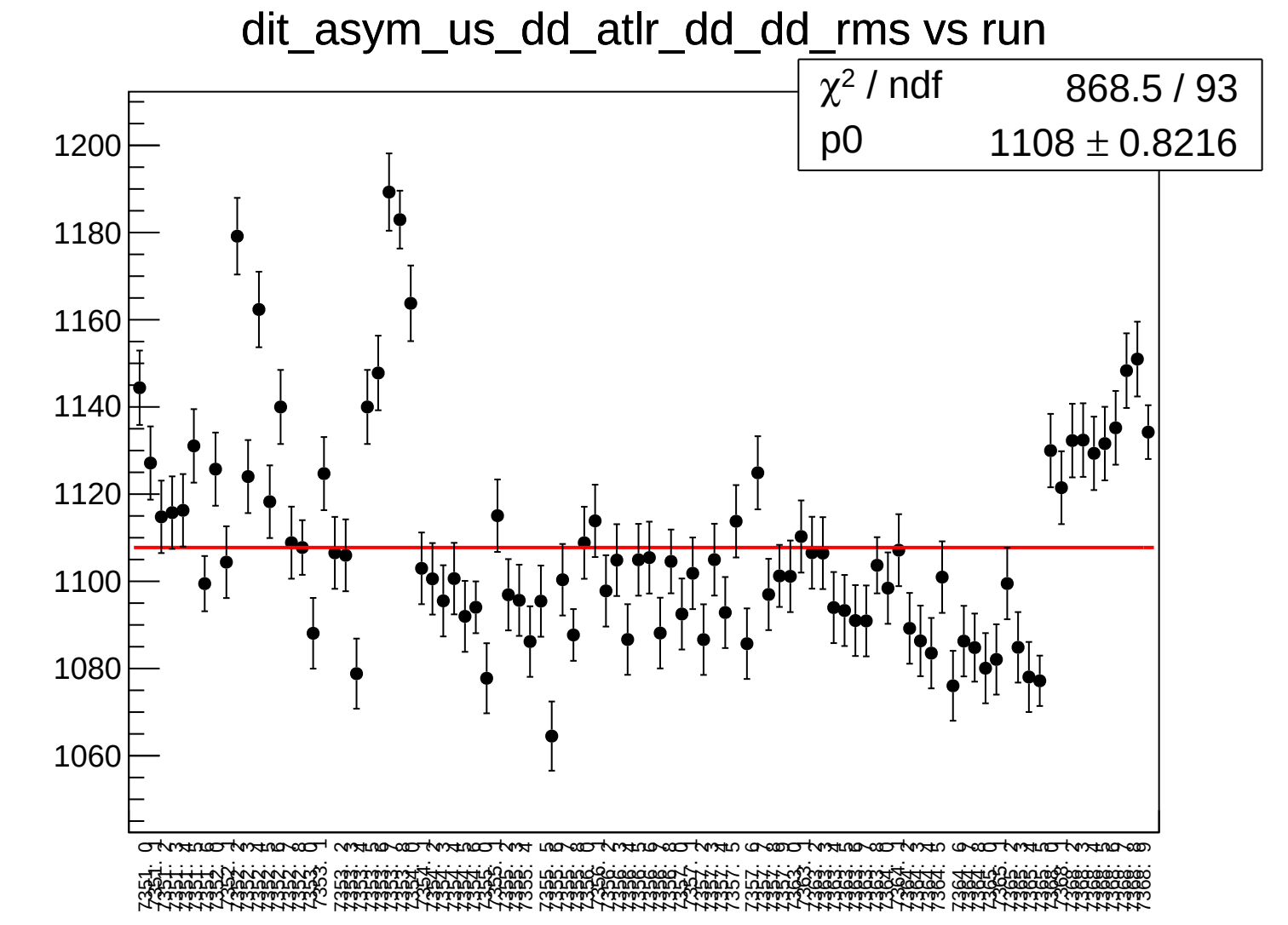

asym_us_dd_atlr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 267.3 / 93
p0 511.4 ± 394.5
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 94
Mean −114.7
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4

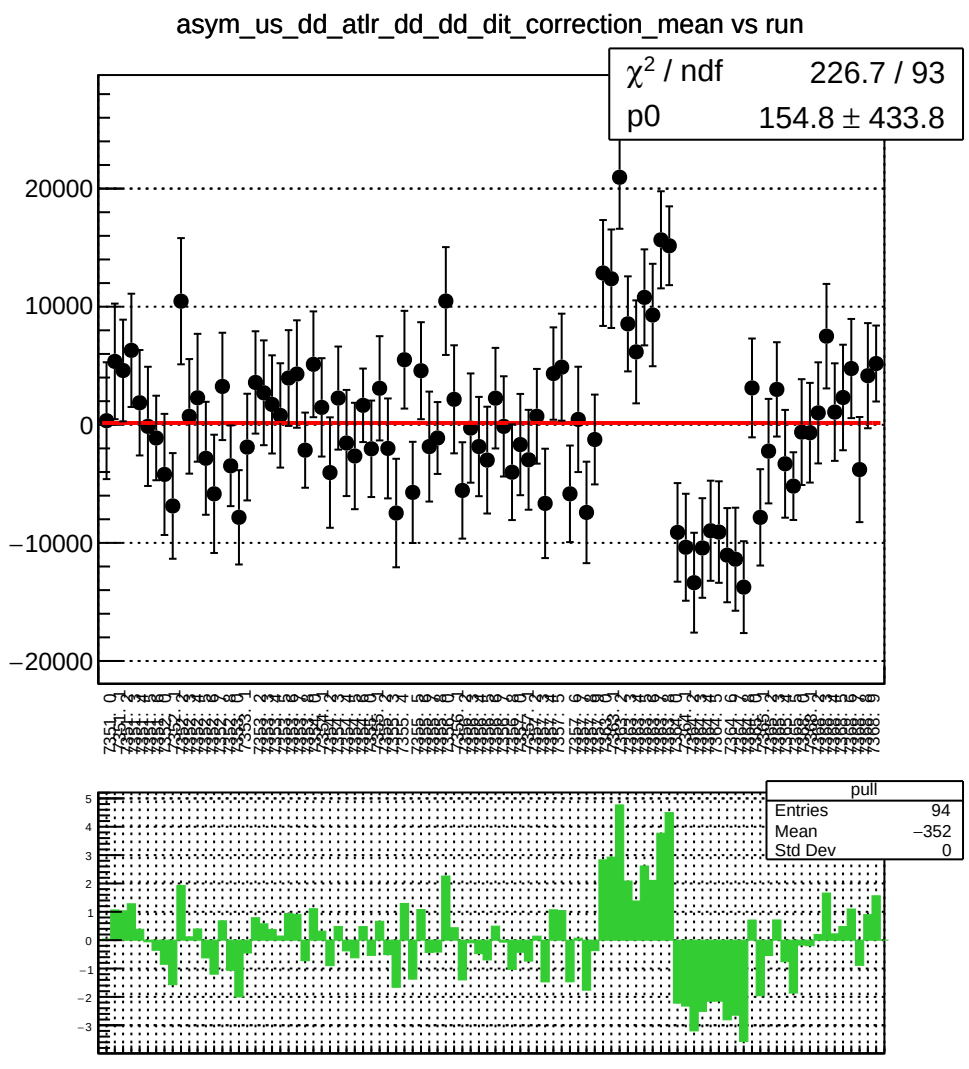

pull1D
Entries 94
Mean 0.02188
Std Dev 1.686
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

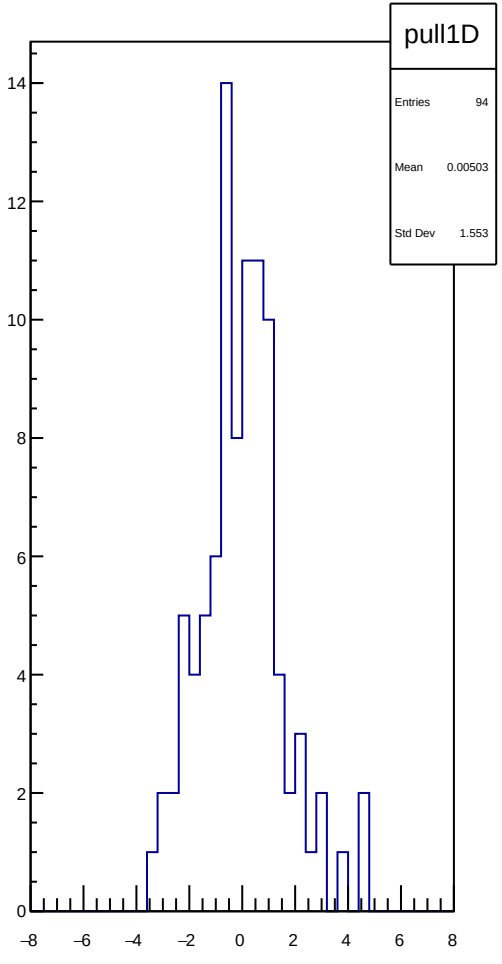

asym_us_dd_atlr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.08e+04 / 93
p0 375.1 ± 0.279
500
450
400
350
300

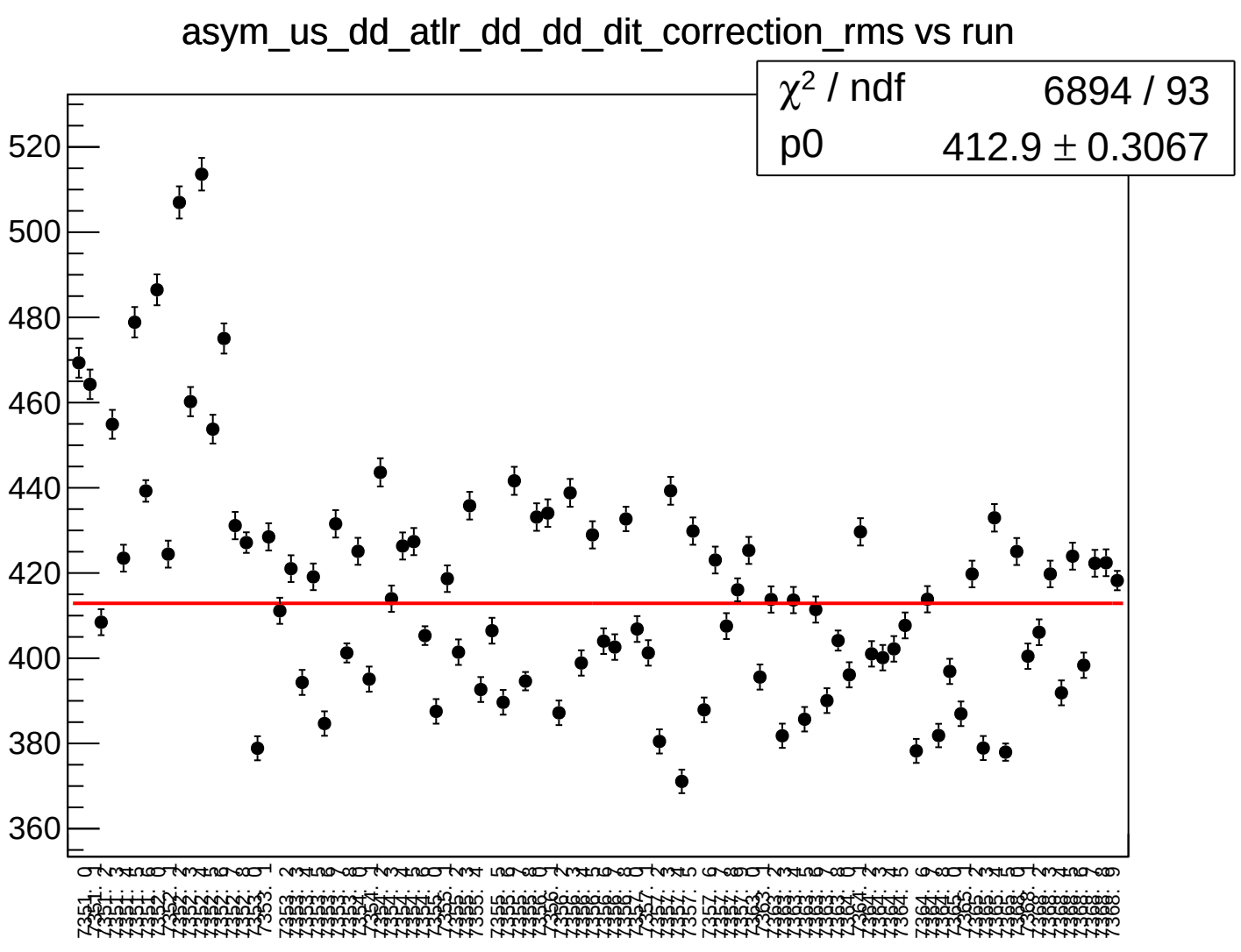

dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 104.1 / 93
p0 890.6 ± 1162
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −249.9
Std Dev 0
3
2
1
0
−1
−2
−3

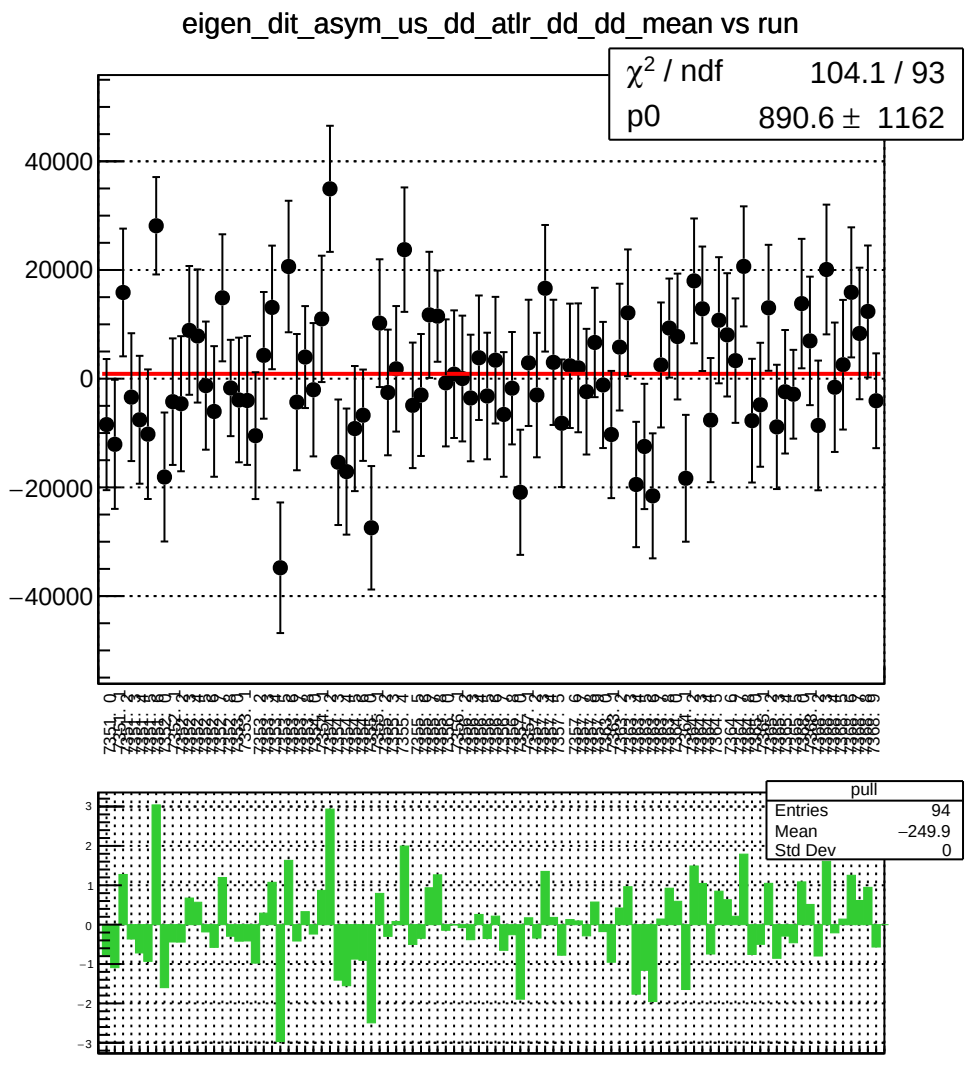

pull1D
Entries 94
Mean −0.01054
Std Dev 1.052
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

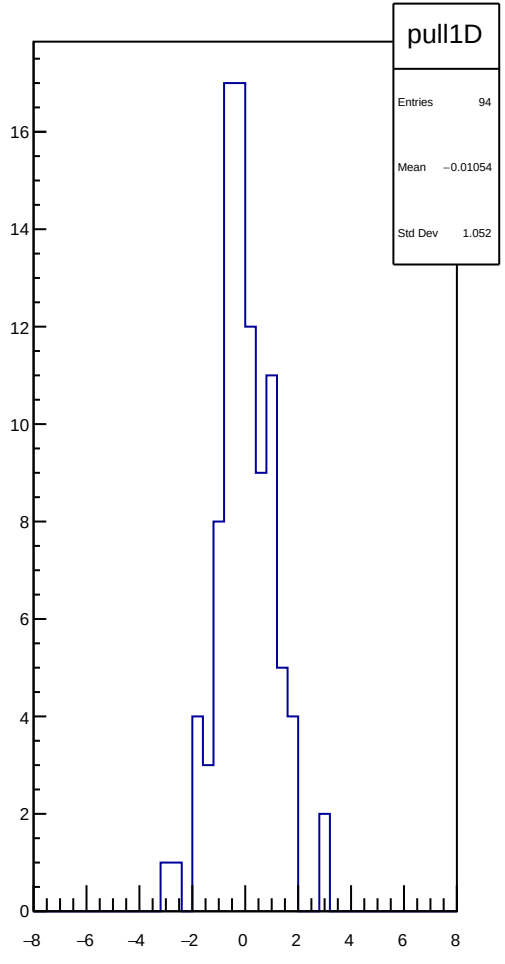

dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 868.5 / 93
p0 1108 ± 0.8216
1200
1180
1160
1140
1120
1100
1080
1060

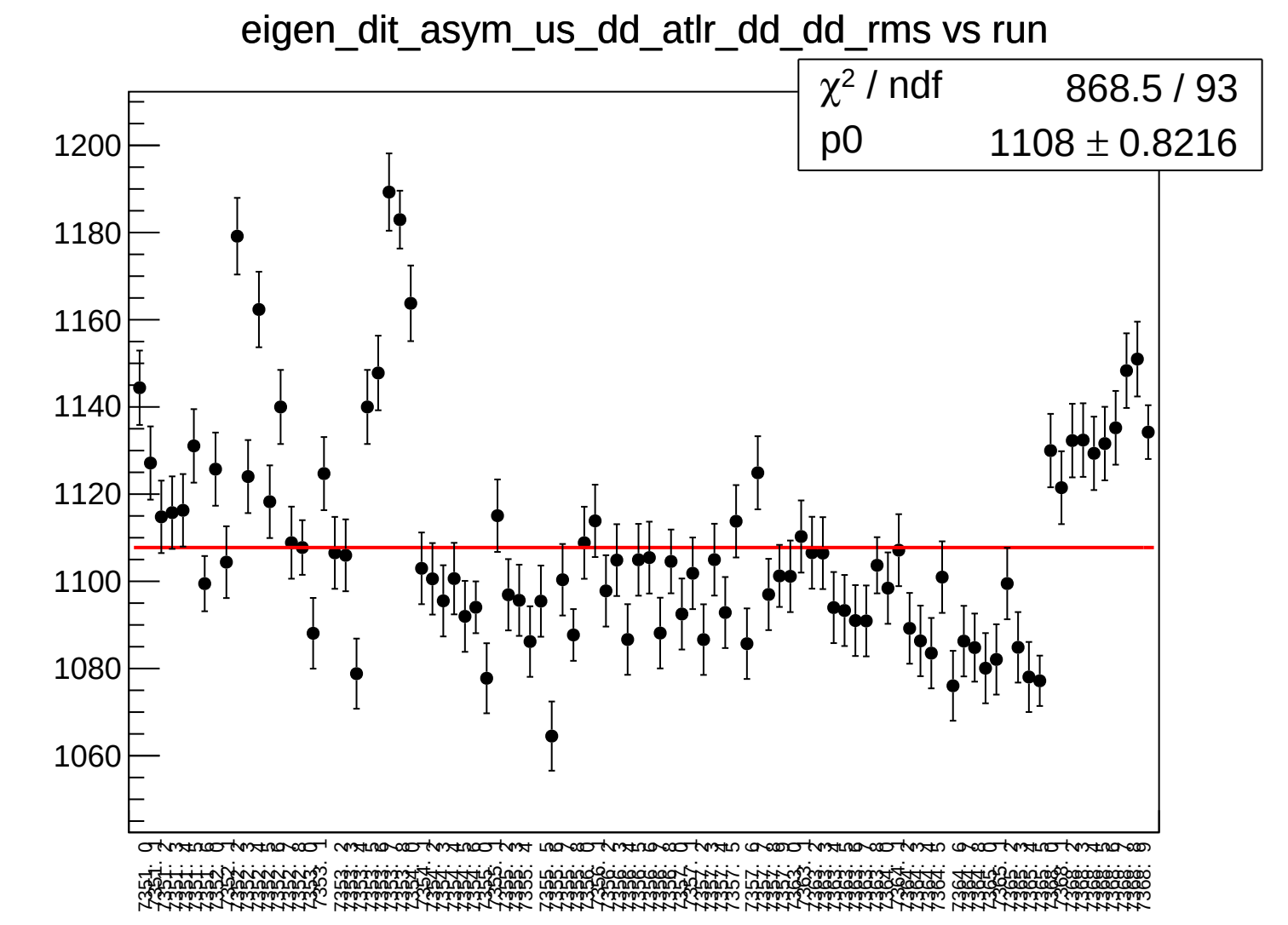

asym_us_dd_atlr_dd_dd_dit_correction_mean vs run
χ² / ndf 226.7 / 93
p0 154.8 ± 433.8
20000
10000
0
−10000
−20000
pull
Entries 94
Mean −352
Std Dev 0
5
4
3
2
1
0
−1
−2
−3

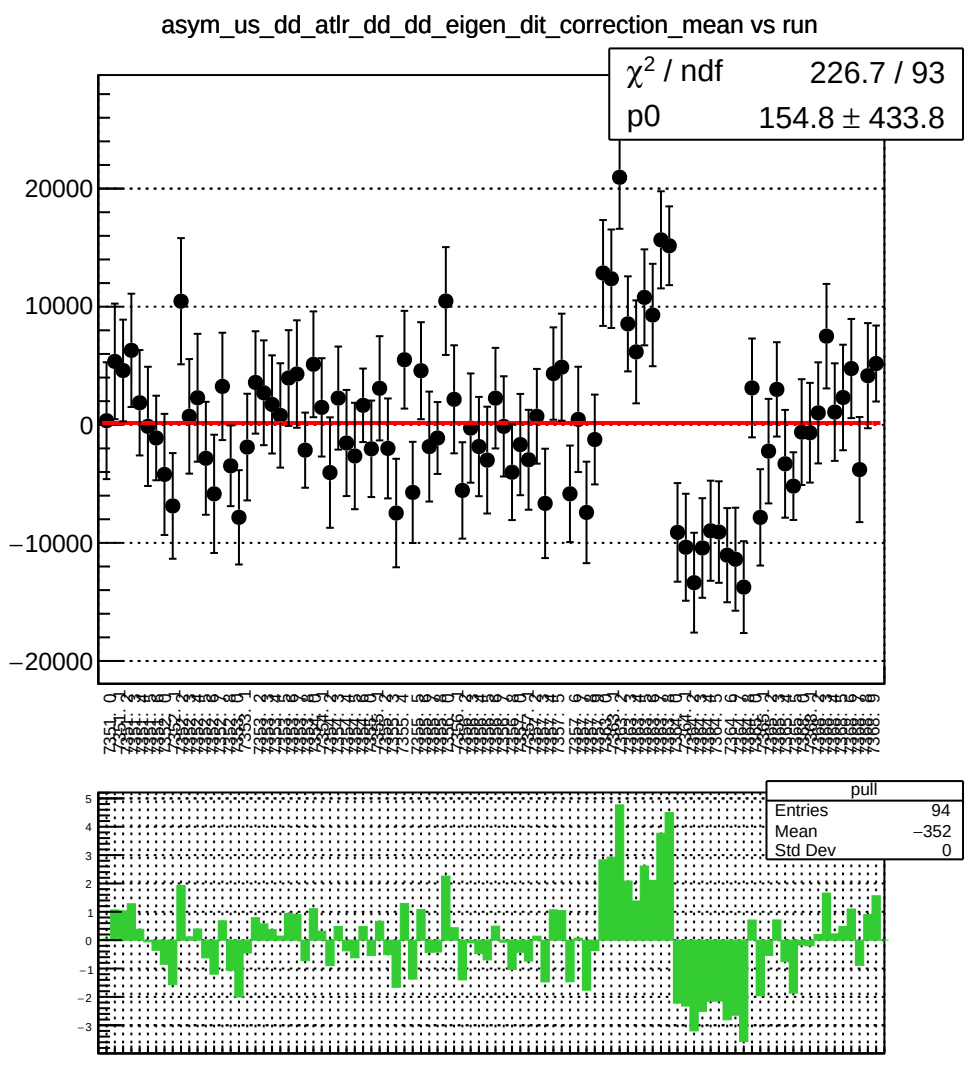

pull1D
Entries 94
Mean 0.00503
Std Dev 1.553
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

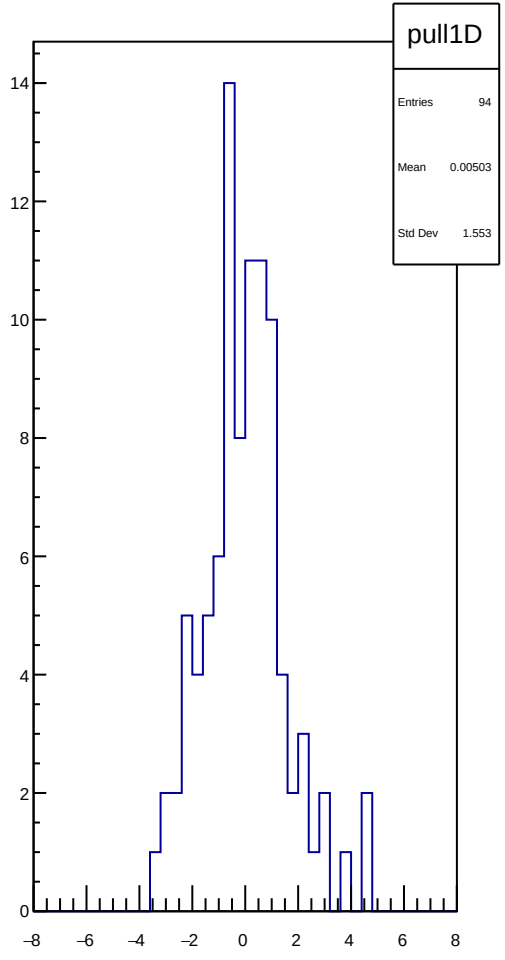

asym_us_dd_atlr_dd_dd_dit_correction_rms vs run
χ² / ndf 6894 / 93
p0 412.9 ± 0.3067
520
500
480
460
440
420
400
380
360

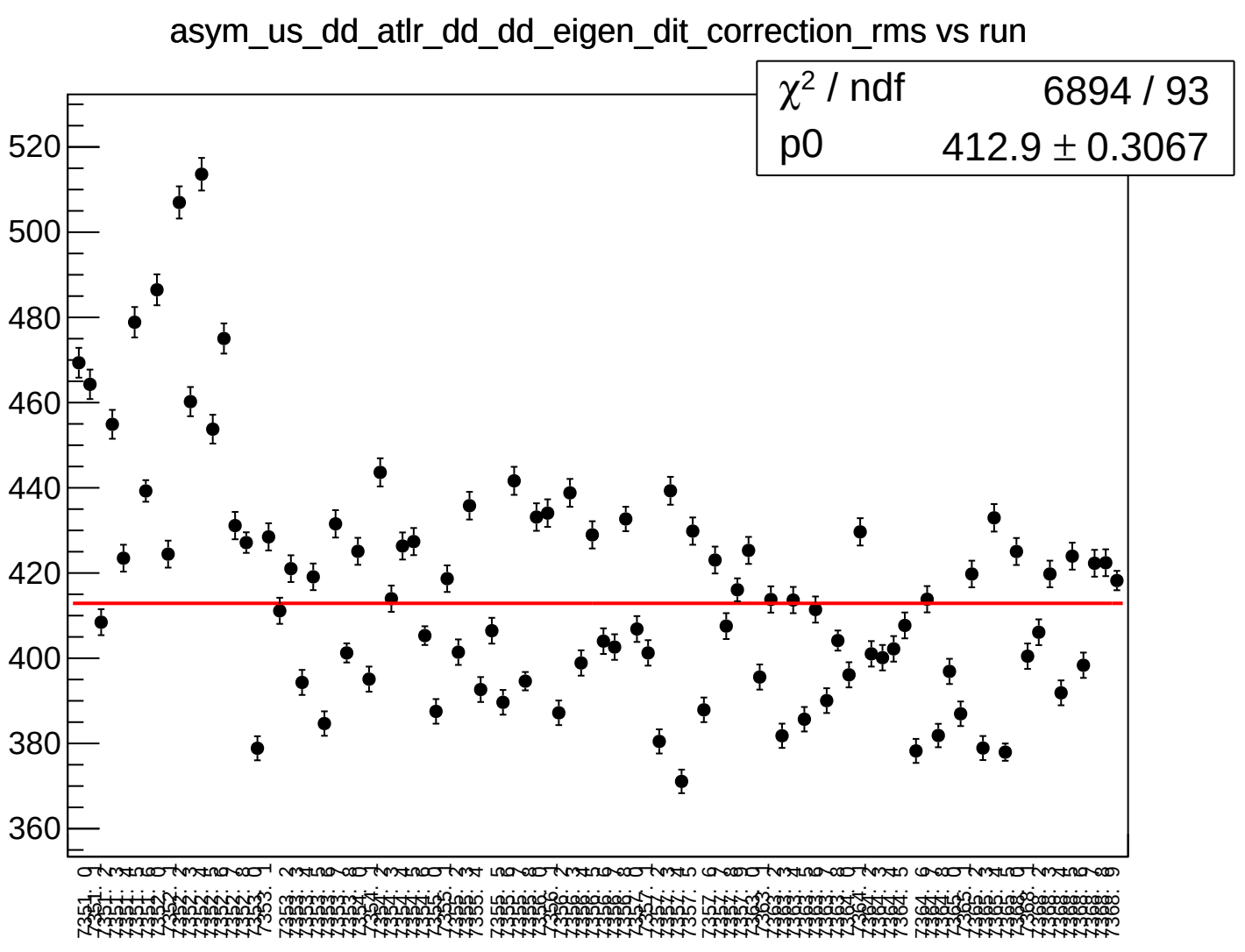

eigen_dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 104.1 / 93
p0 890.6 ± 1162
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −249.9
Std Dev 0
3
2
1
0
−1
−2
−3

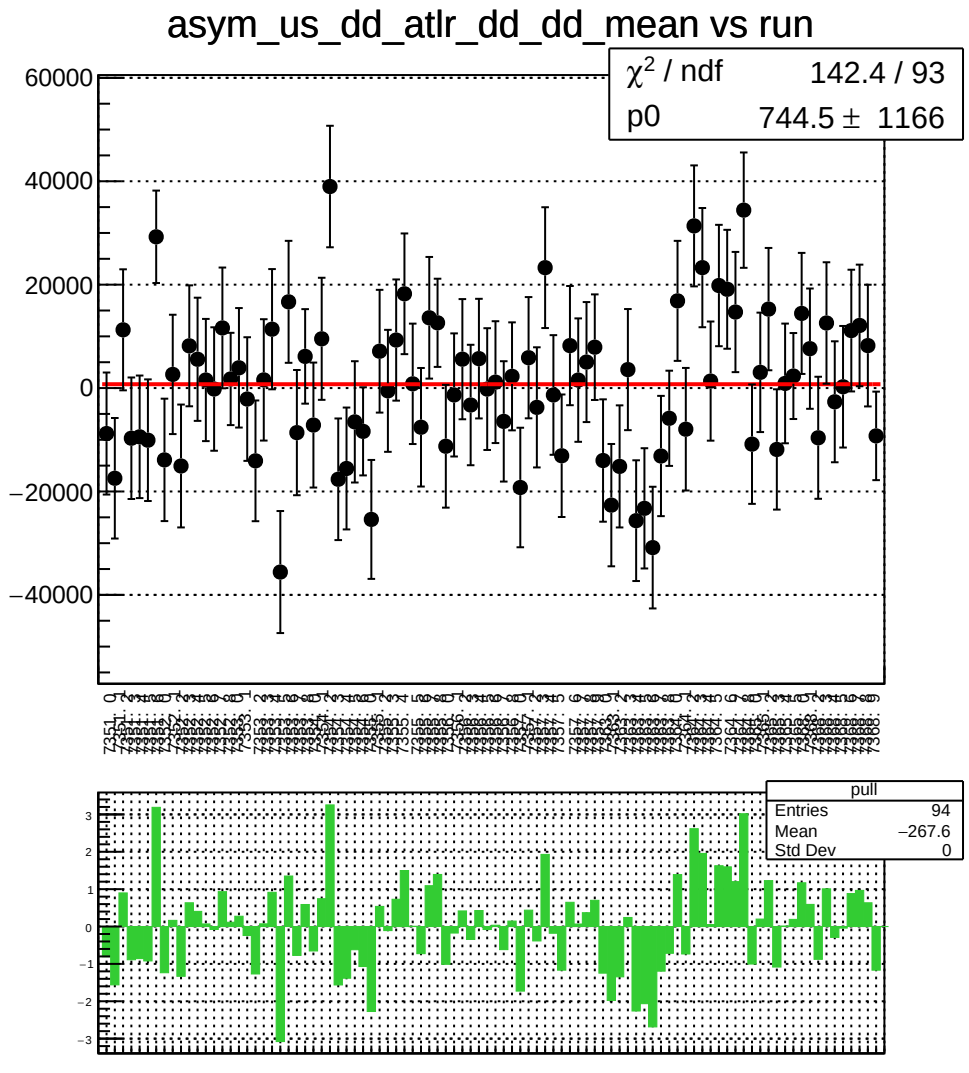

pull1D
Entries 94
Mean −0.01054
Std Dev 1.052
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

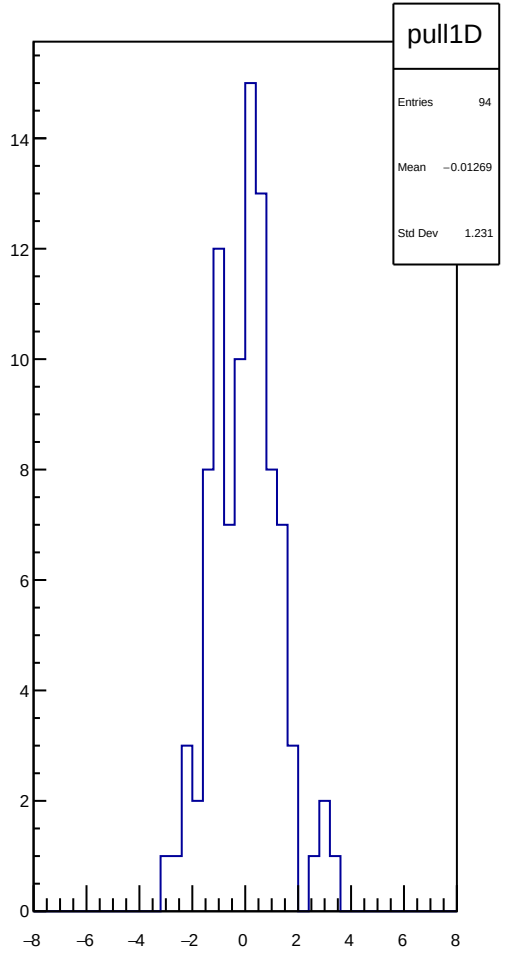

eigen_dit_asym_us_dd_atlr_dd_dd_rms vs run
χ^2 / ndf 868.5 / 93
p0 1108 ± 0.8216
1200
1180
1160
1140
1120
1100
1080
1060

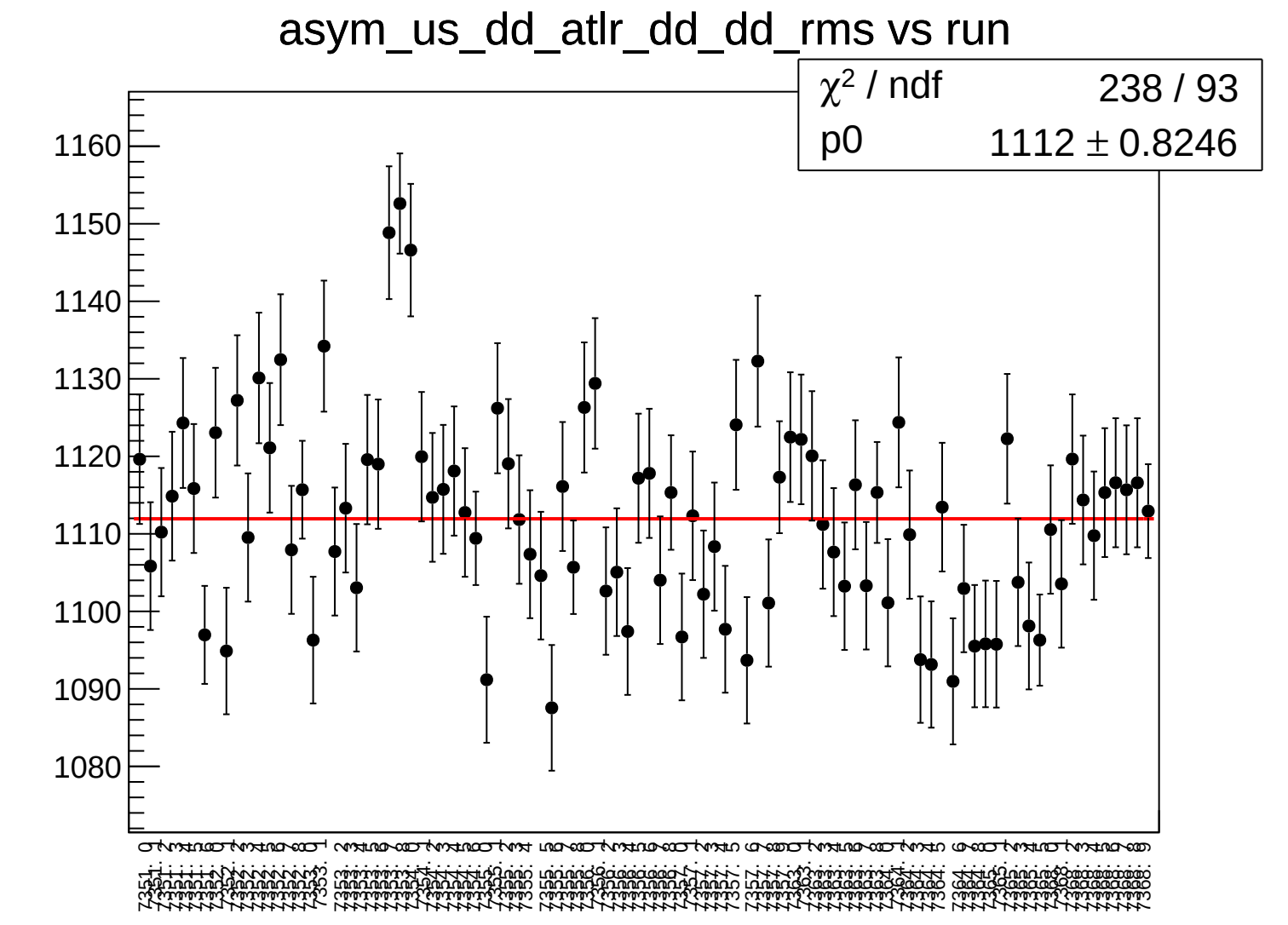

asym_us_dd_atlr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 226.7 / 93
p0 154.8 ± 433.8
20000
10000
0
−10000
−20000
pull
Entries 94
Mean −352
Std Dev 0
5
4
3
2
1
0
−1
−2
−3

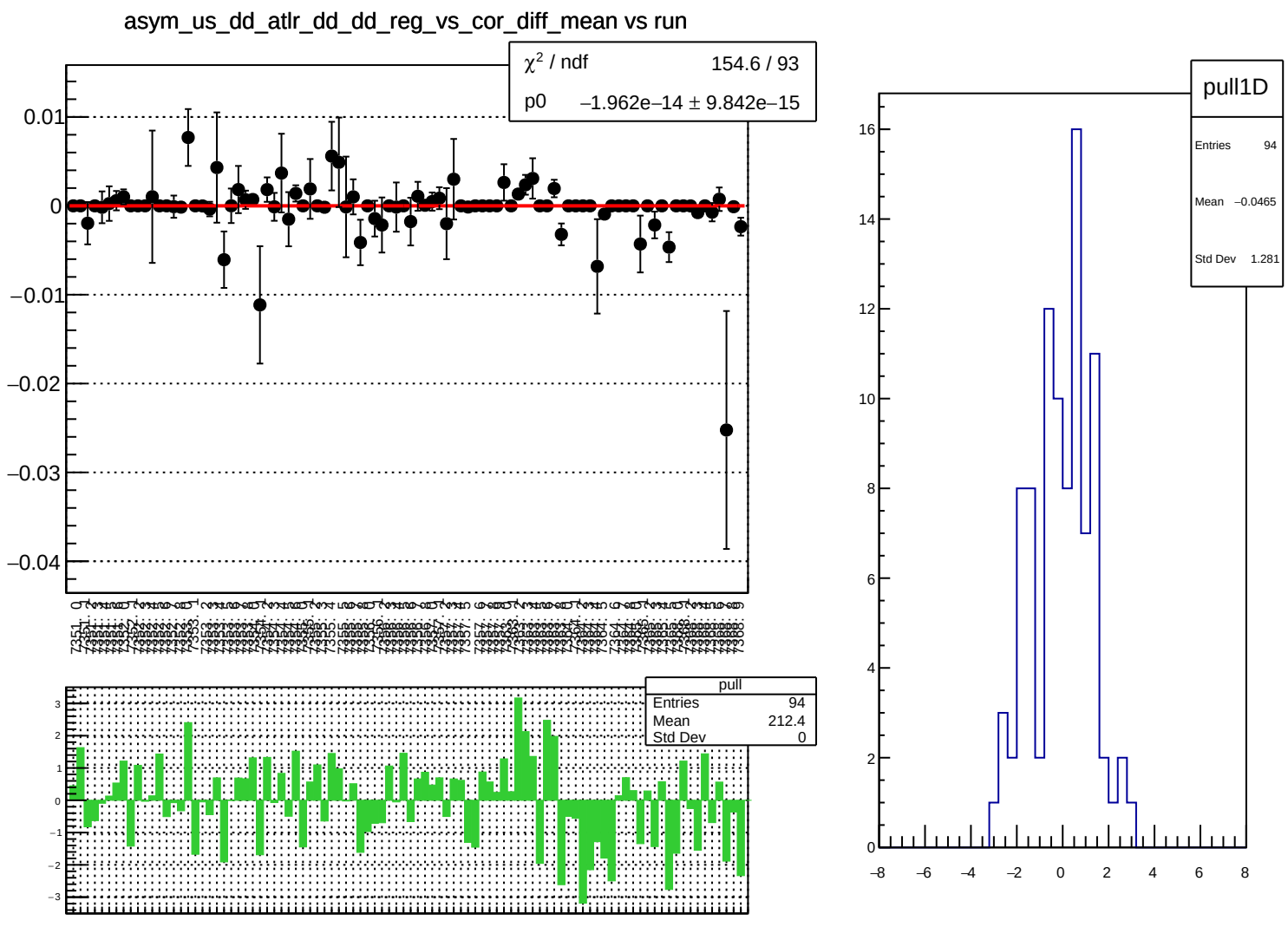

pull1D
Entries 94
Mean 0.00503
Std Dev 1.553
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

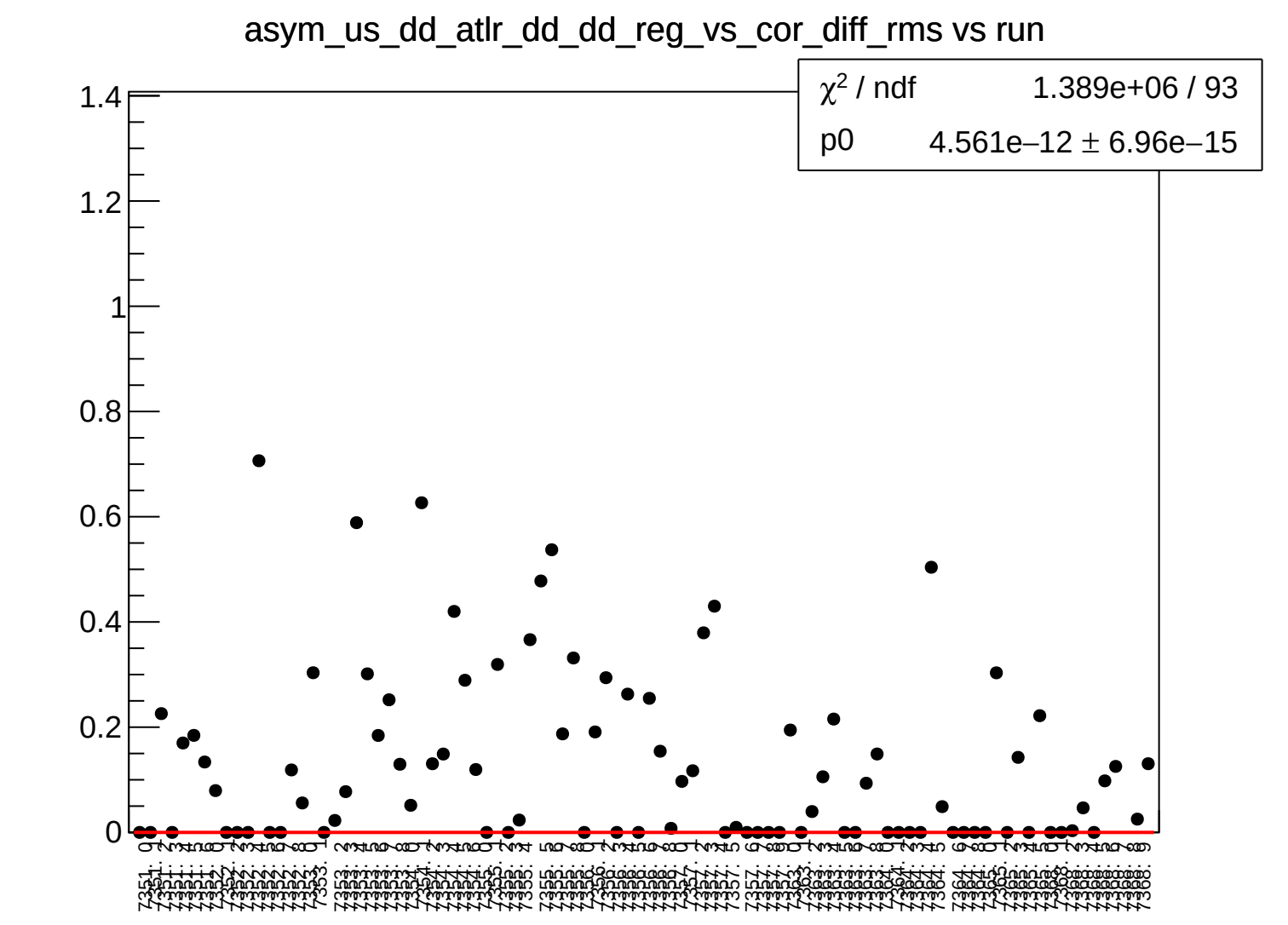

asym_us_dd_atlr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 6894 / 93
p0 412.9 ± 0.3067
520
500
480
460
440
420
400
380
360

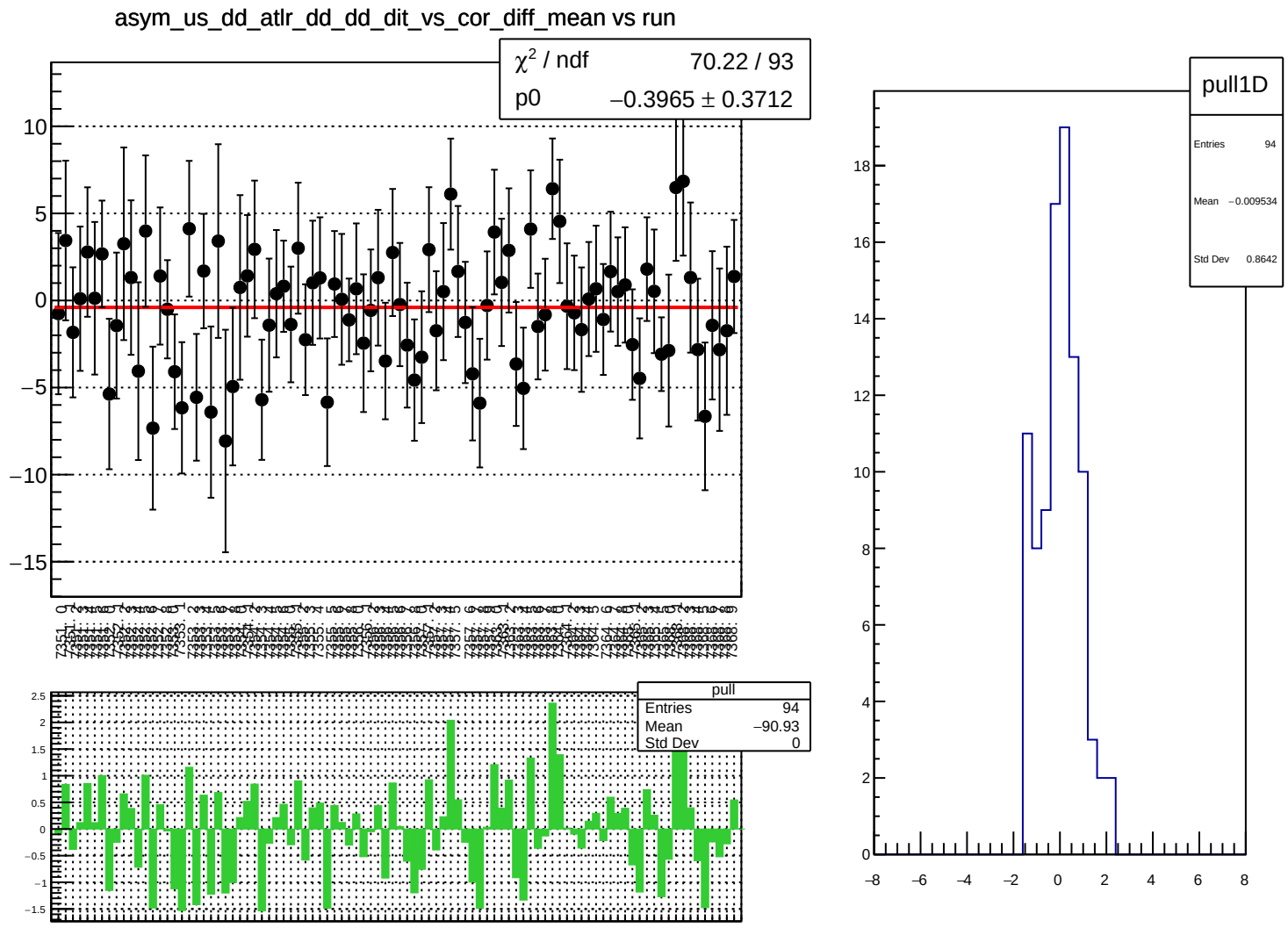

asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 142.4 / 93
p0 744.5 ± 1166
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −267.6
Std Dev 0
3
2
1
0
−1
−2
−3

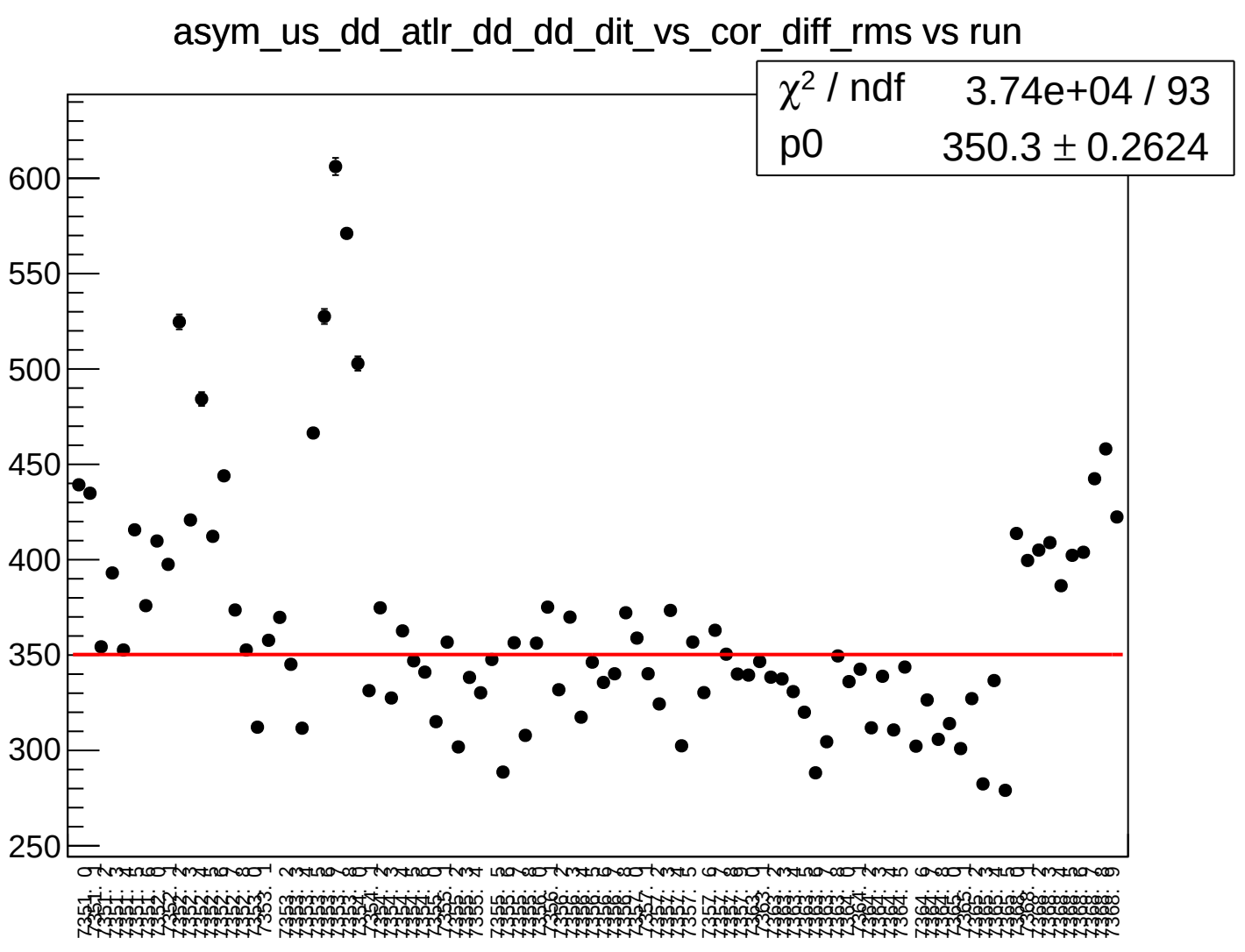

pull1D
Entries 94
Mean −0.01269
Std Dev 1.231
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

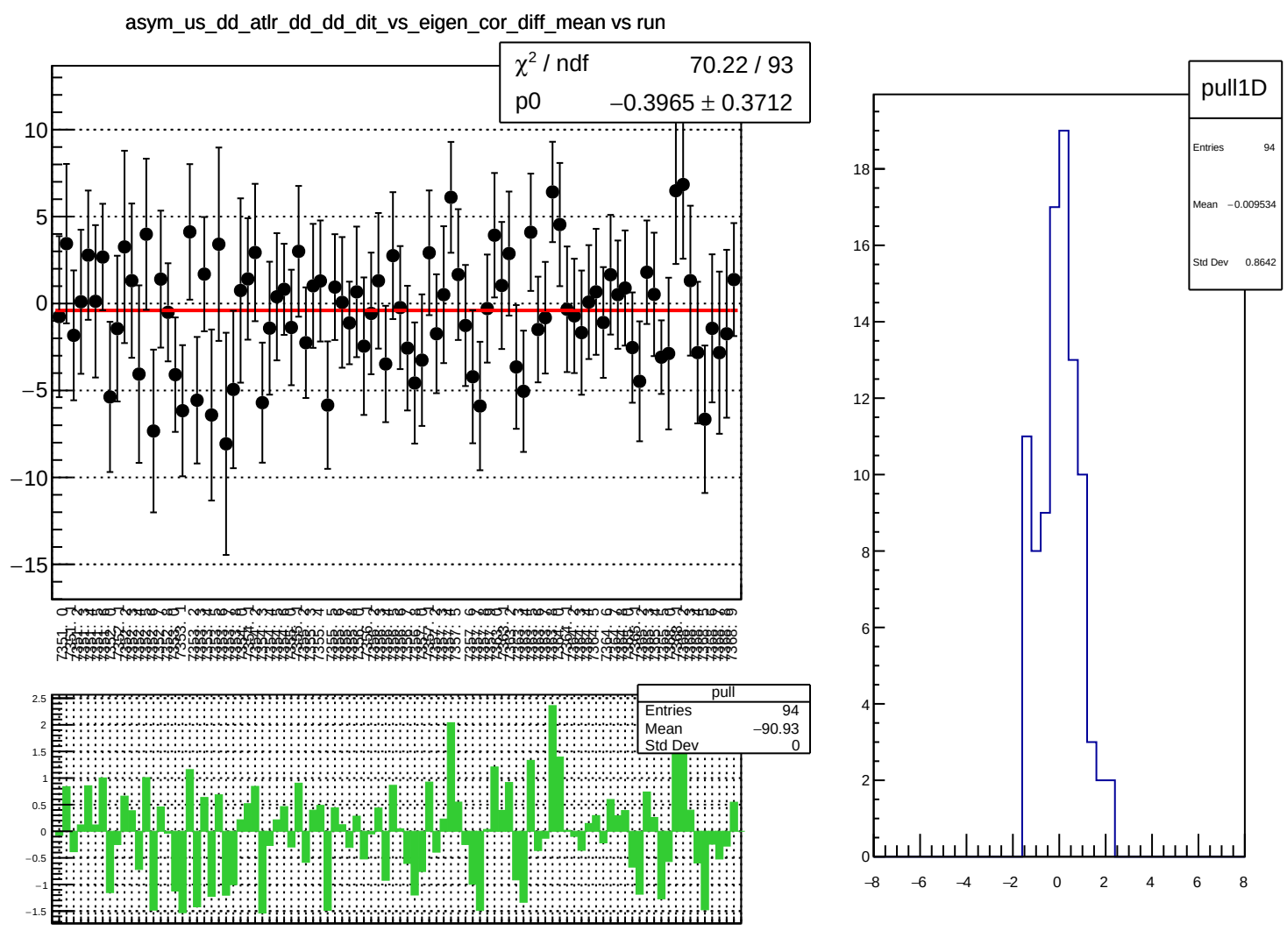

asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 238 / 93
p0 1112 ± 0.8246
1160
1150
1140
1130
1120
1110
1100
1090
1080

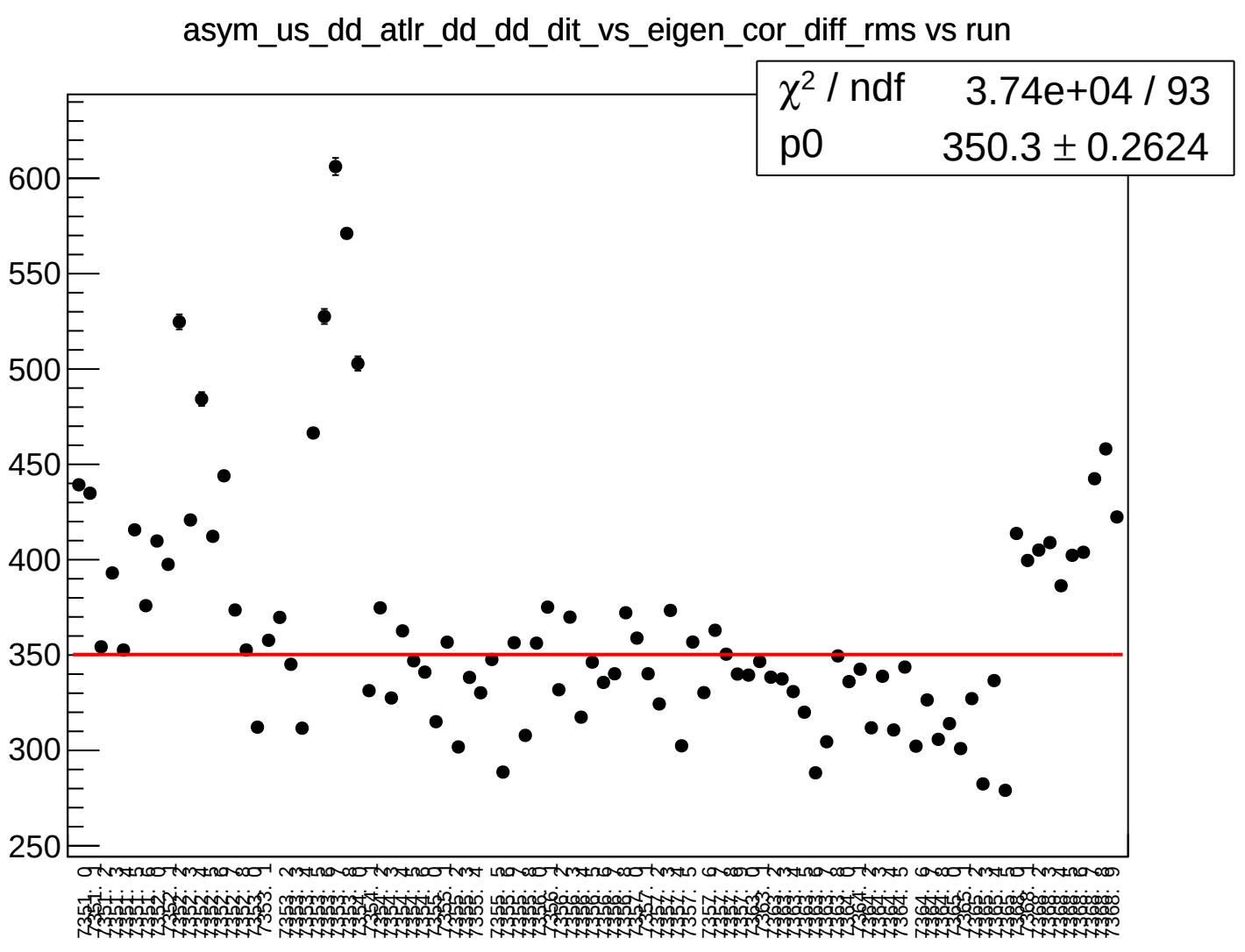

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 154.6 / 93
p0 −1.962e−14 ± 9.842e−15
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 94
Mean 212.4
Std Dev 0
pull1D
Entries 94
Mean −0.0465
Std Dev 1.281
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

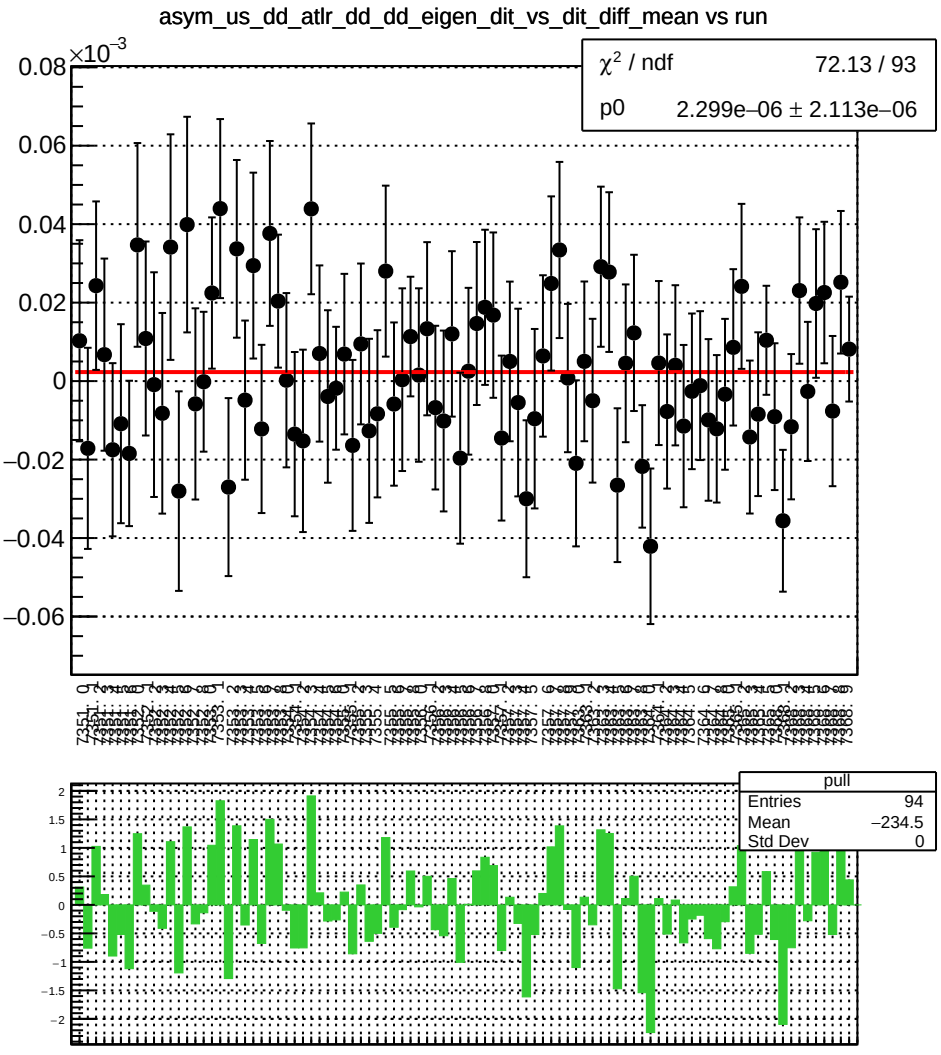

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.389e+06 / 93
p0 4.561e−12 ± 6.96e−15
1.4
1.2
1
0.8
0.6
0.4
0.2
0

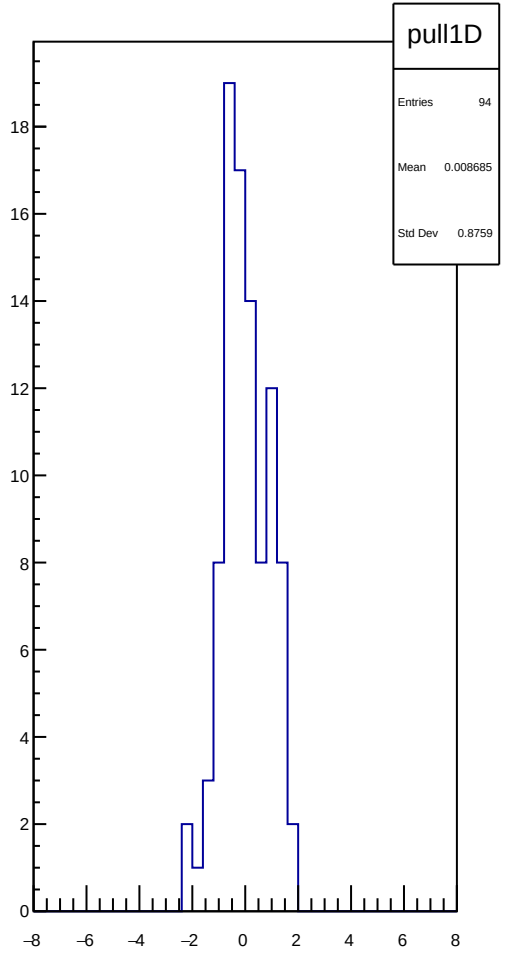

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 70.22 / 93
p0 −0.3965 ± 0.3712
pull
Entries 94
Mean −90.93
Std Dev 0
pull1D
Entries 94
Mean −0.009534
Std Dev 0.8642

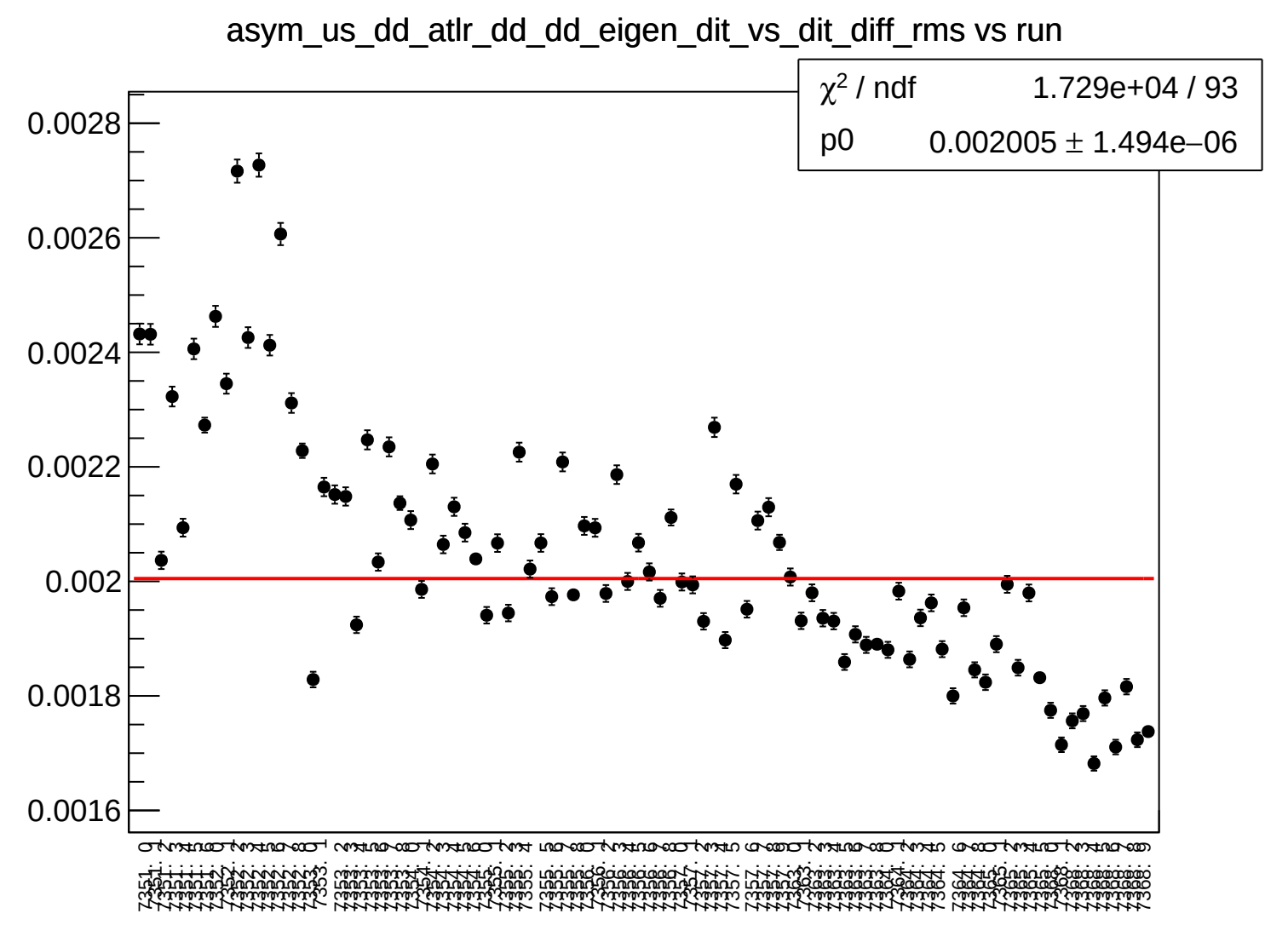

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.74e+04 / 93
p0 350.3 ± 0.2624
600
550
500
450
400
350
300
250

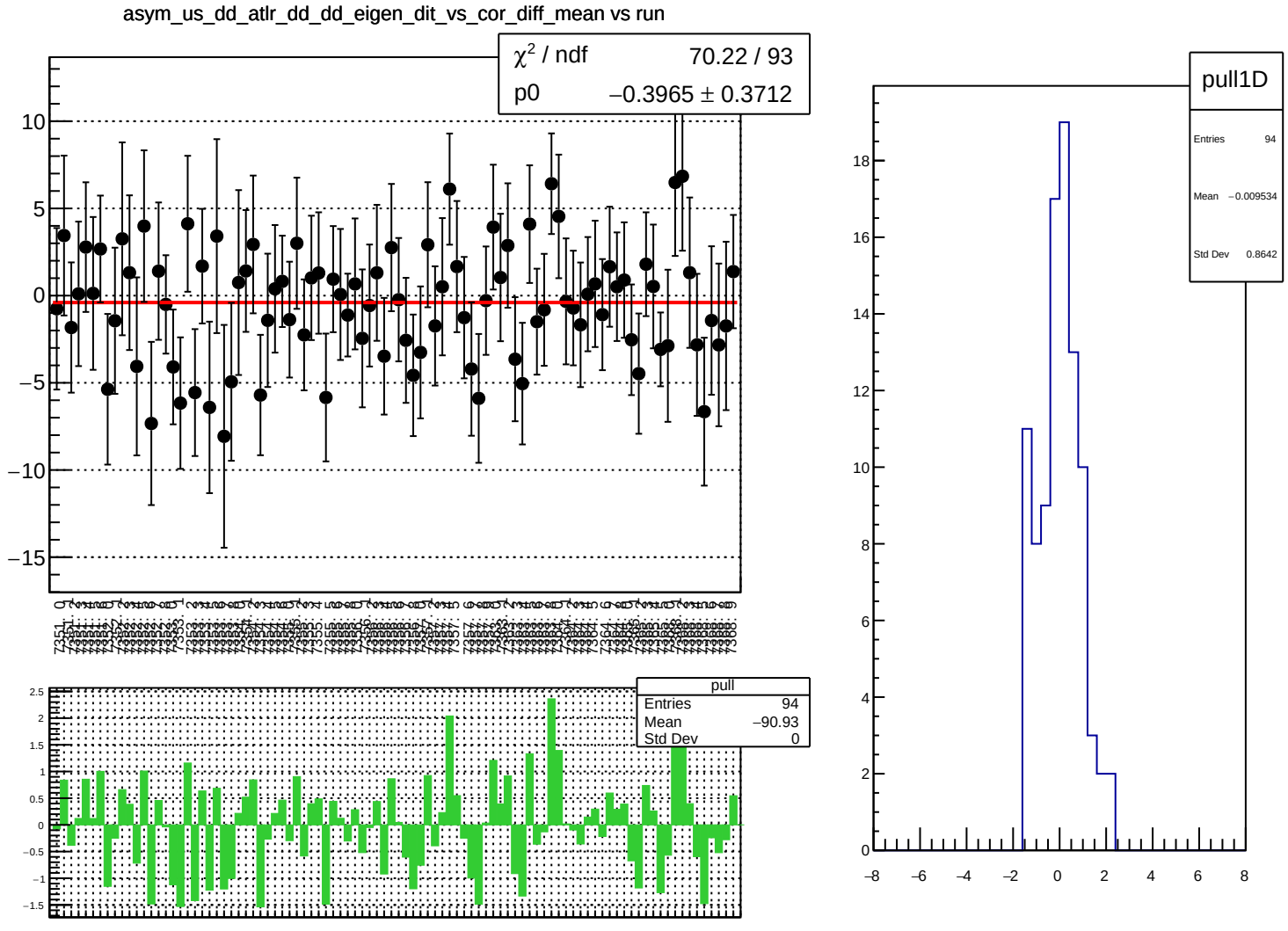

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.22 / 93
p0 −0.3965 ± 0.3712
pull
Entries 94
Mean −90.93
Std Dev 0
pull1D
Entries 94
Mean −0.009534
Std Dev 0.8642

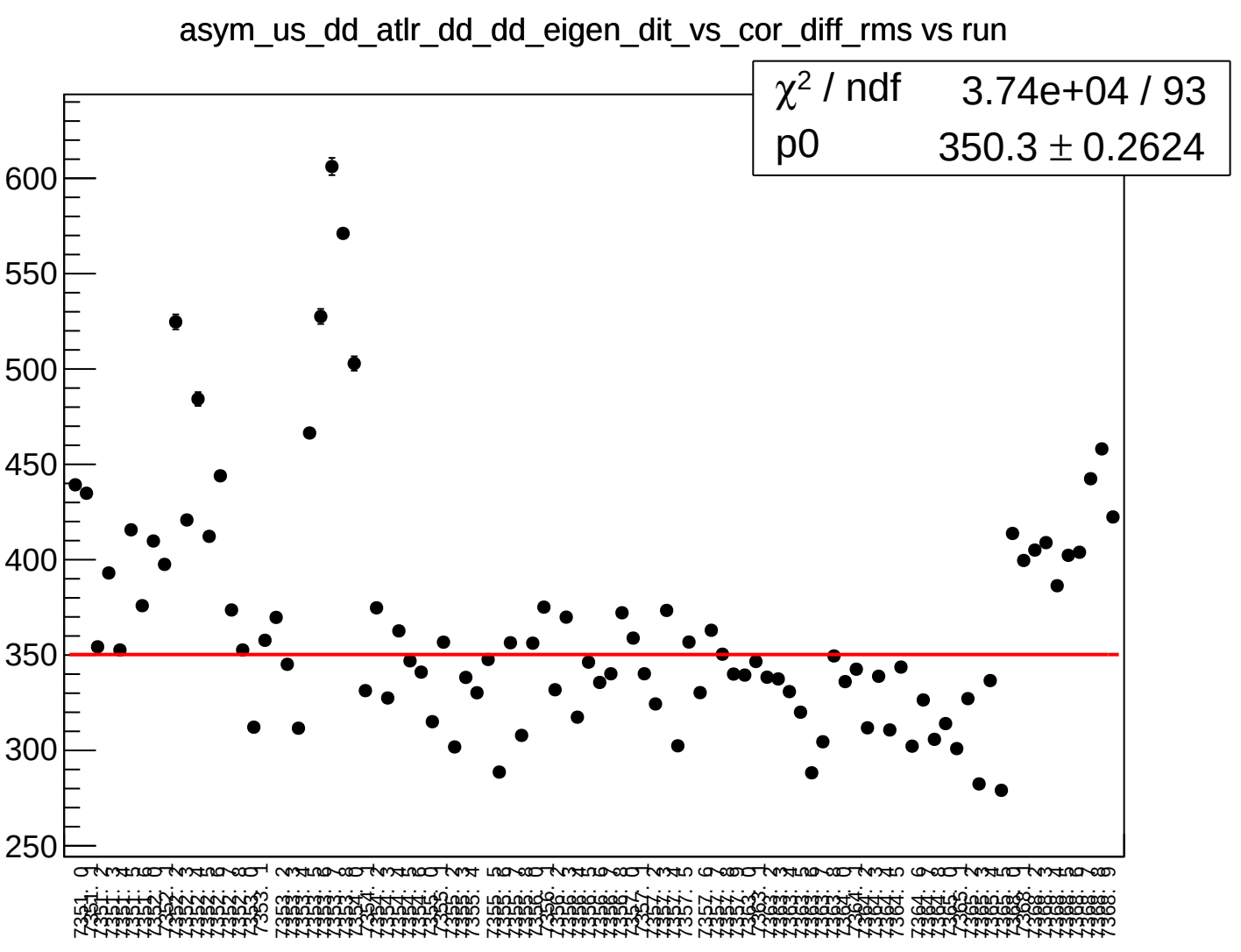

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.74e+04 / 93
p0 350.3 ± 0.2624
600
550
500
450
400
350
300
250

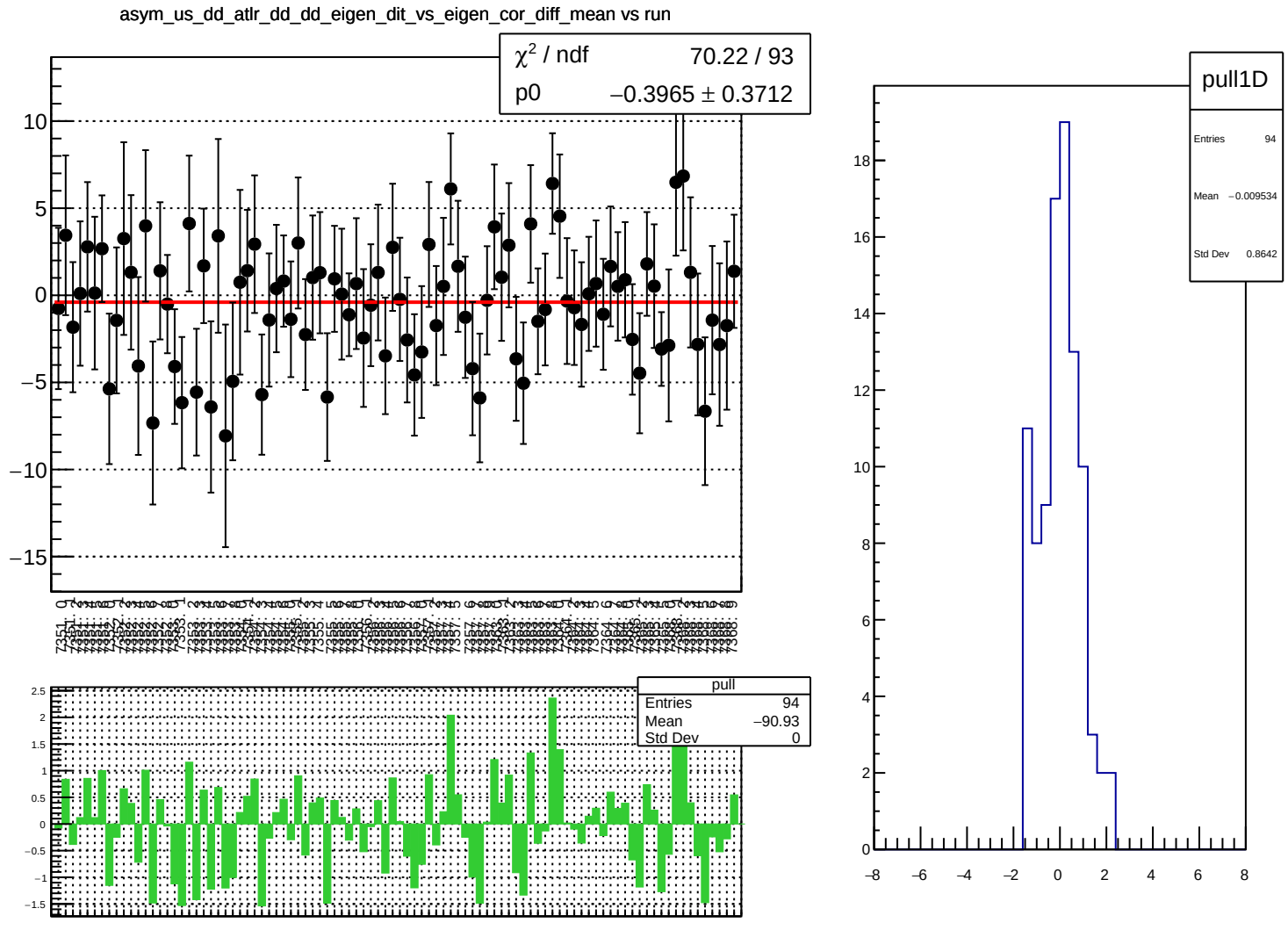

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 72.13 / 93
p0 2.299e−06 ± 2.113e−06
×10⁻³
pull
Entries 94
Mean −234.5
Std Dev 0

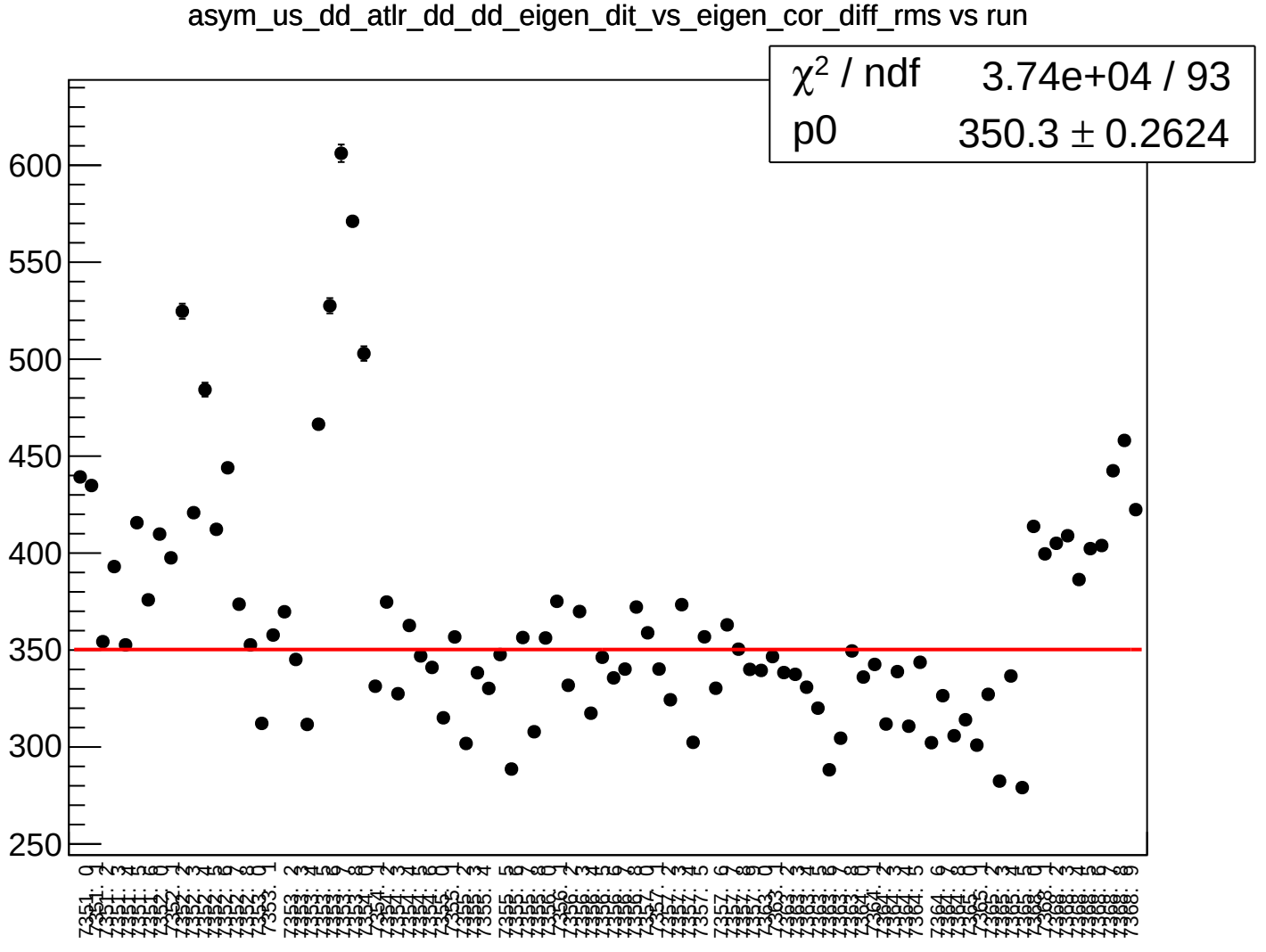

pull1D
Entries 94
Mean 0.008685
Std Dev 0.8759

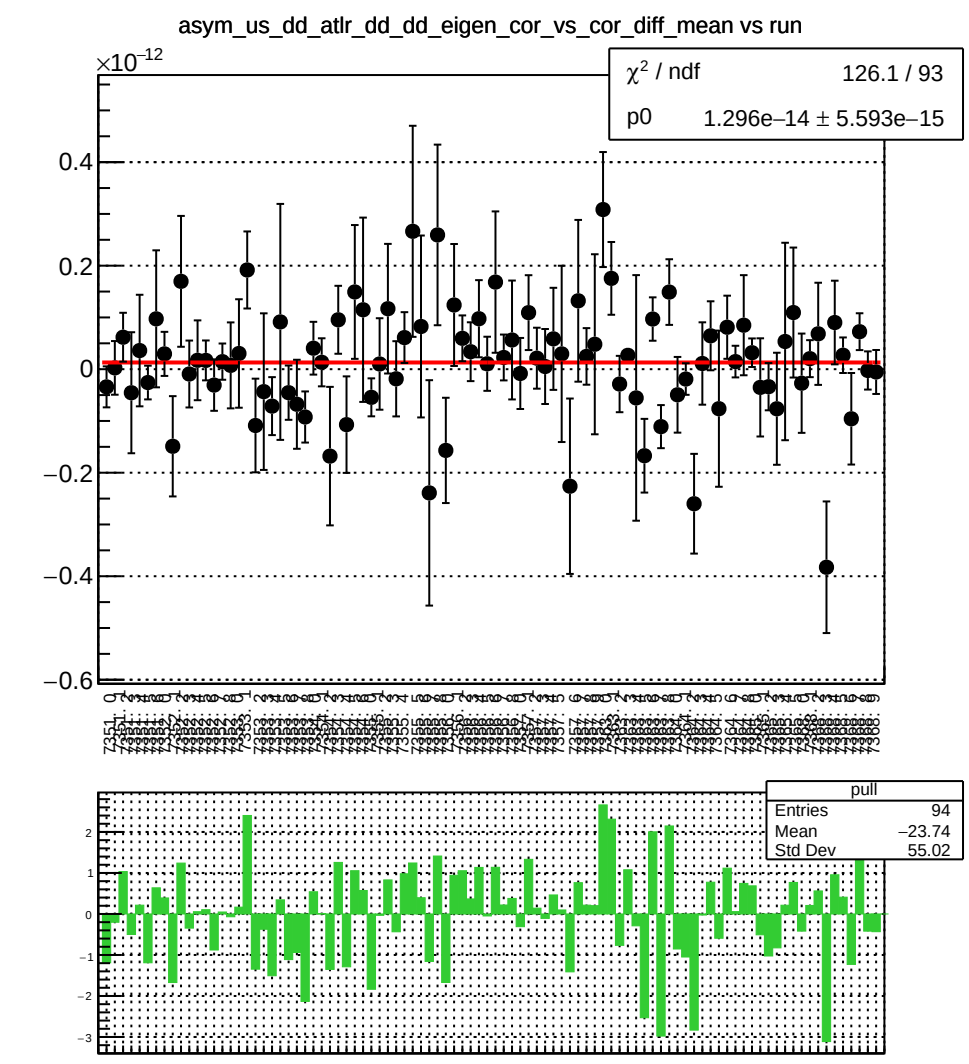

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.729e+04 / 93
p0 0.002005 ± 1.494e−06
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016

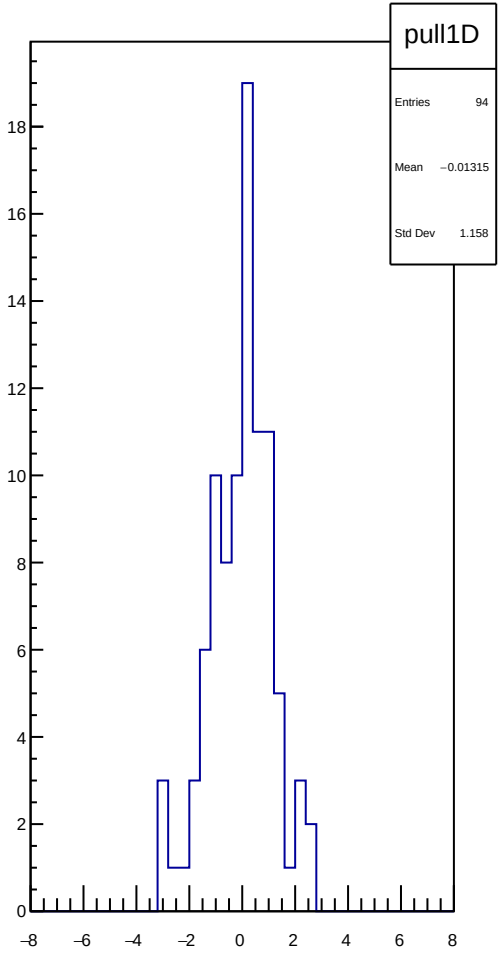

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 70.22 / 93
p0 −0.3965 ± 0.3712
pull
Entries 94
Mean −90.93
Std Dev 0
pull1D
Entries 94
Mean −0.009534
Std Dev 0.8642

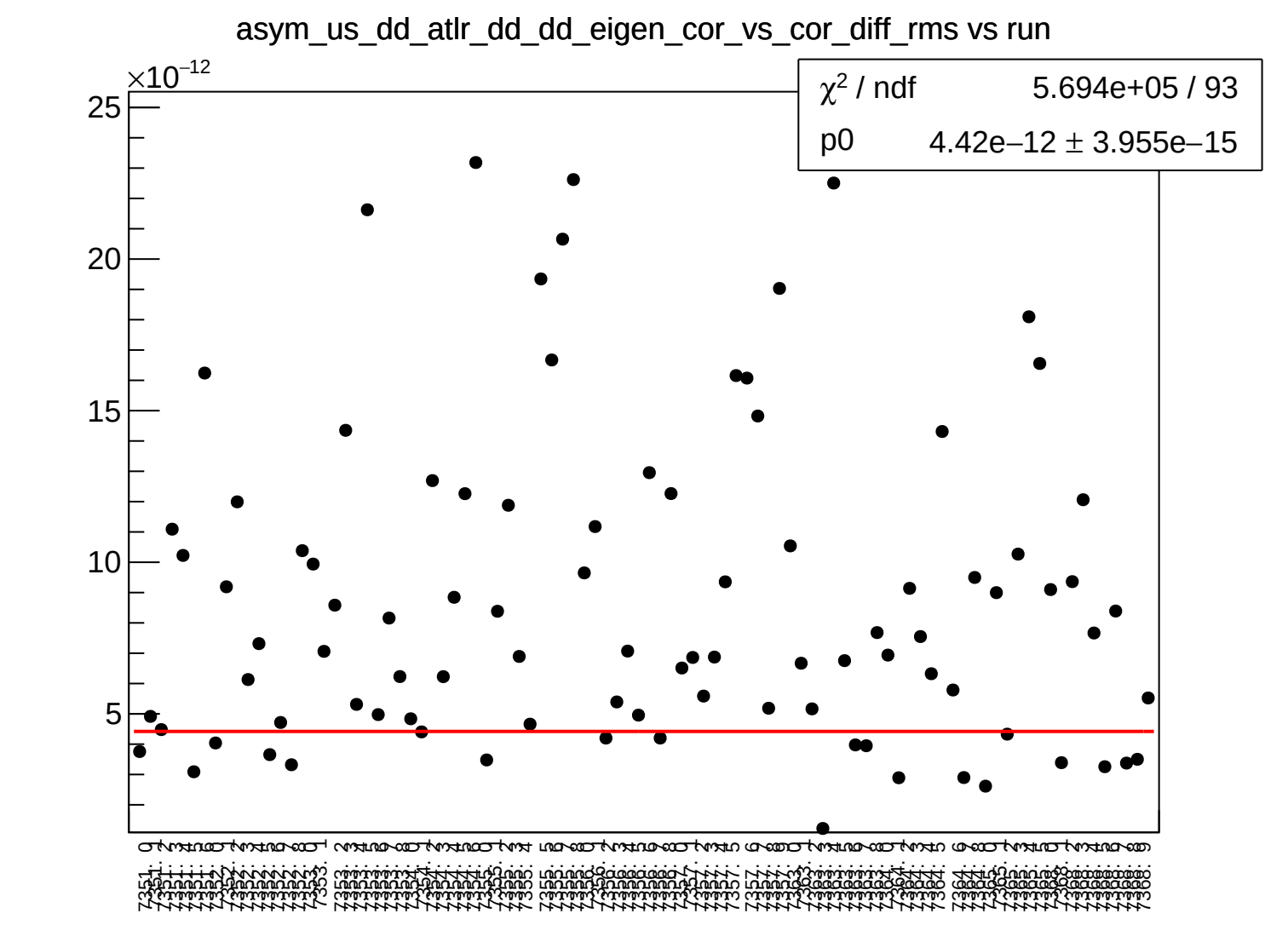

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.74e+04 / 93
p0 350.3 ± 0.2624
600
550
500
450
400
350
300
250

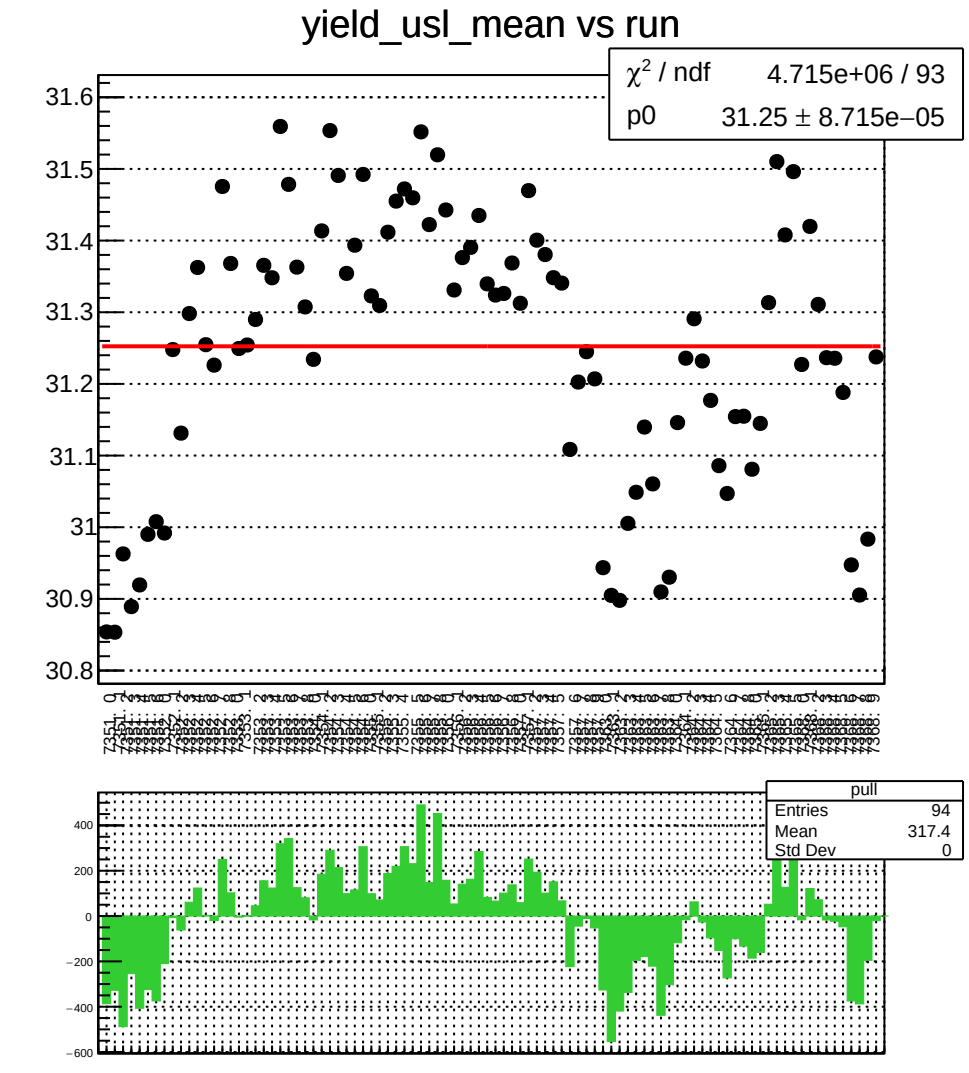

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.22 / 93
p0 −0.3965 ± 0.3712
pull
Entries 94
Mean −90.93
Std Dev 0
pull1D
Entries 94
Mean −0.009534
Std Dev 0.8642

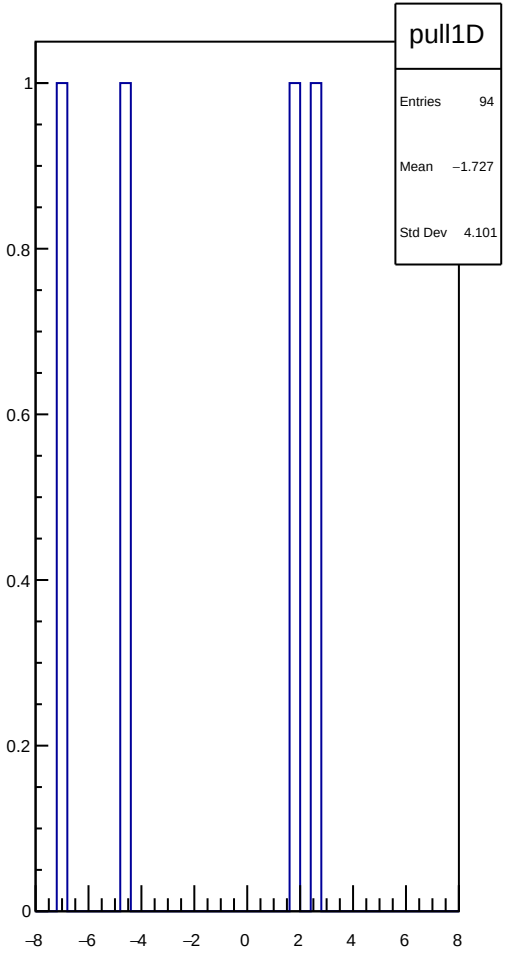

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.74e+04 / 93
p0 350.3 ± 0.2624
600
550
500
450
400
350
300
250

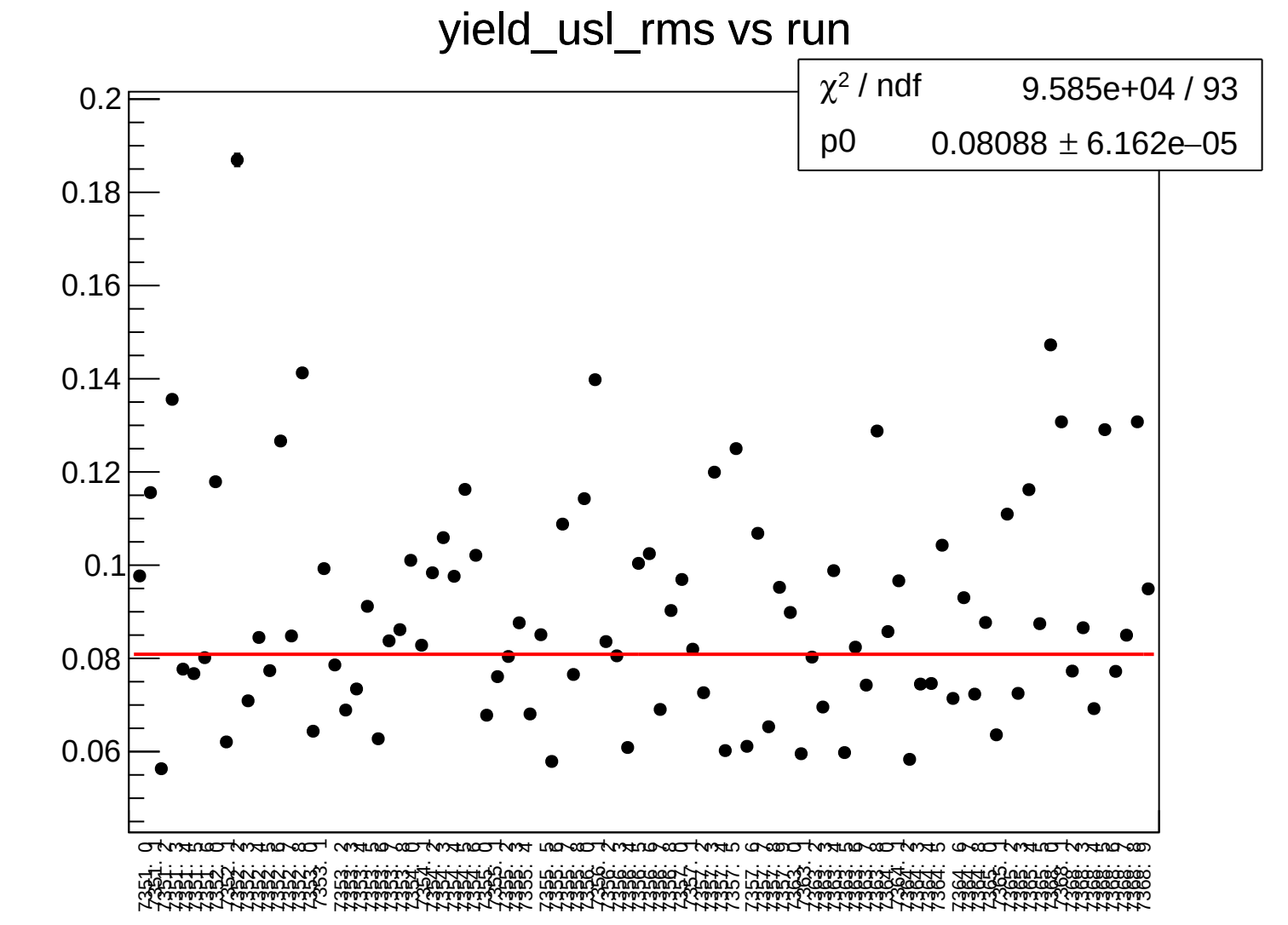

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 126.1 / 93
p0 1.296e−14 ± 5.593e−15
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 94
Mean −23.74
Std Dev 55.02
2
1
0
−1
−2
−3

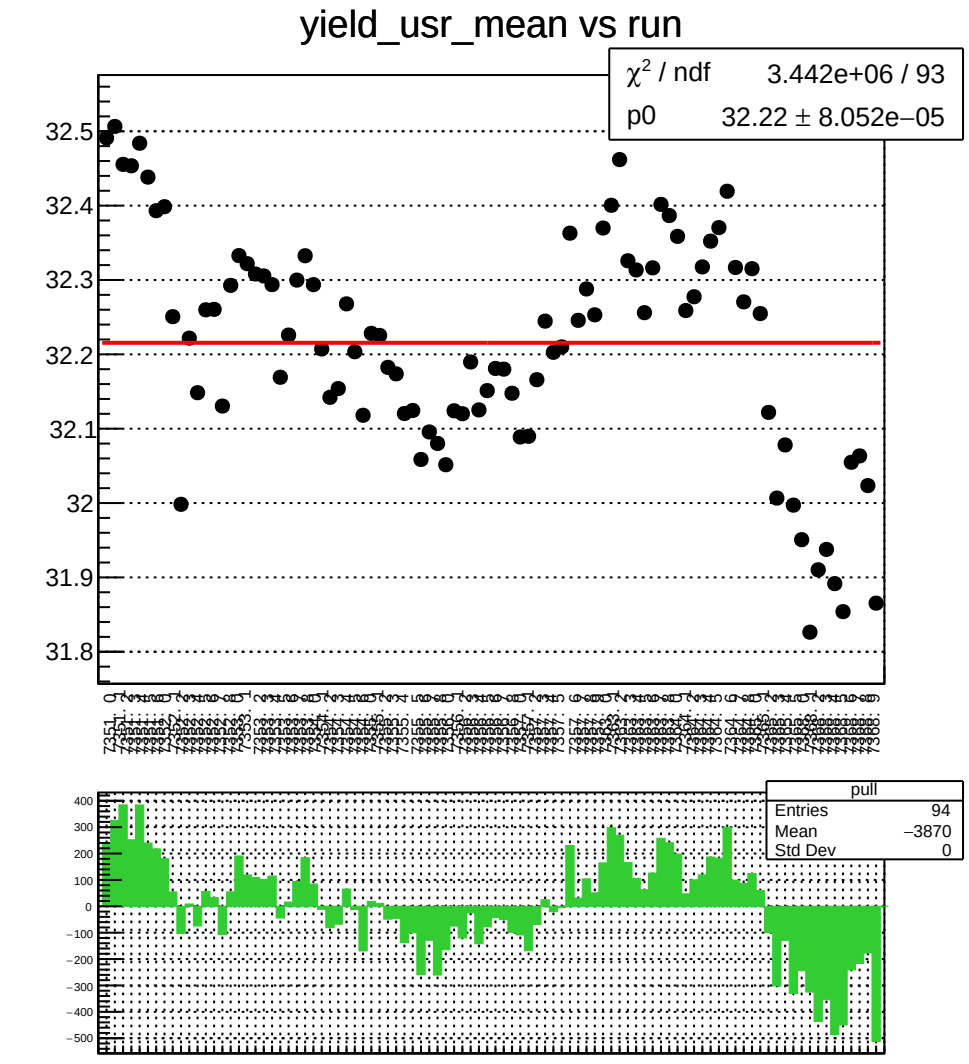

pull1D
Entries 94
Mean −0.01315
Std Dev 1.158
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

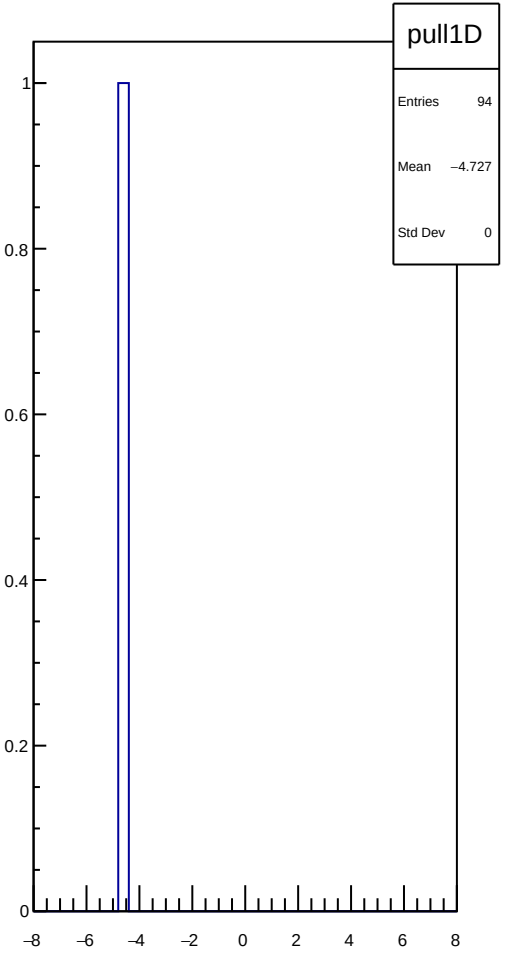

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.694e+05 / 93
p0 4.42e−12 ± 3.955e−15
25
20
15
10
5

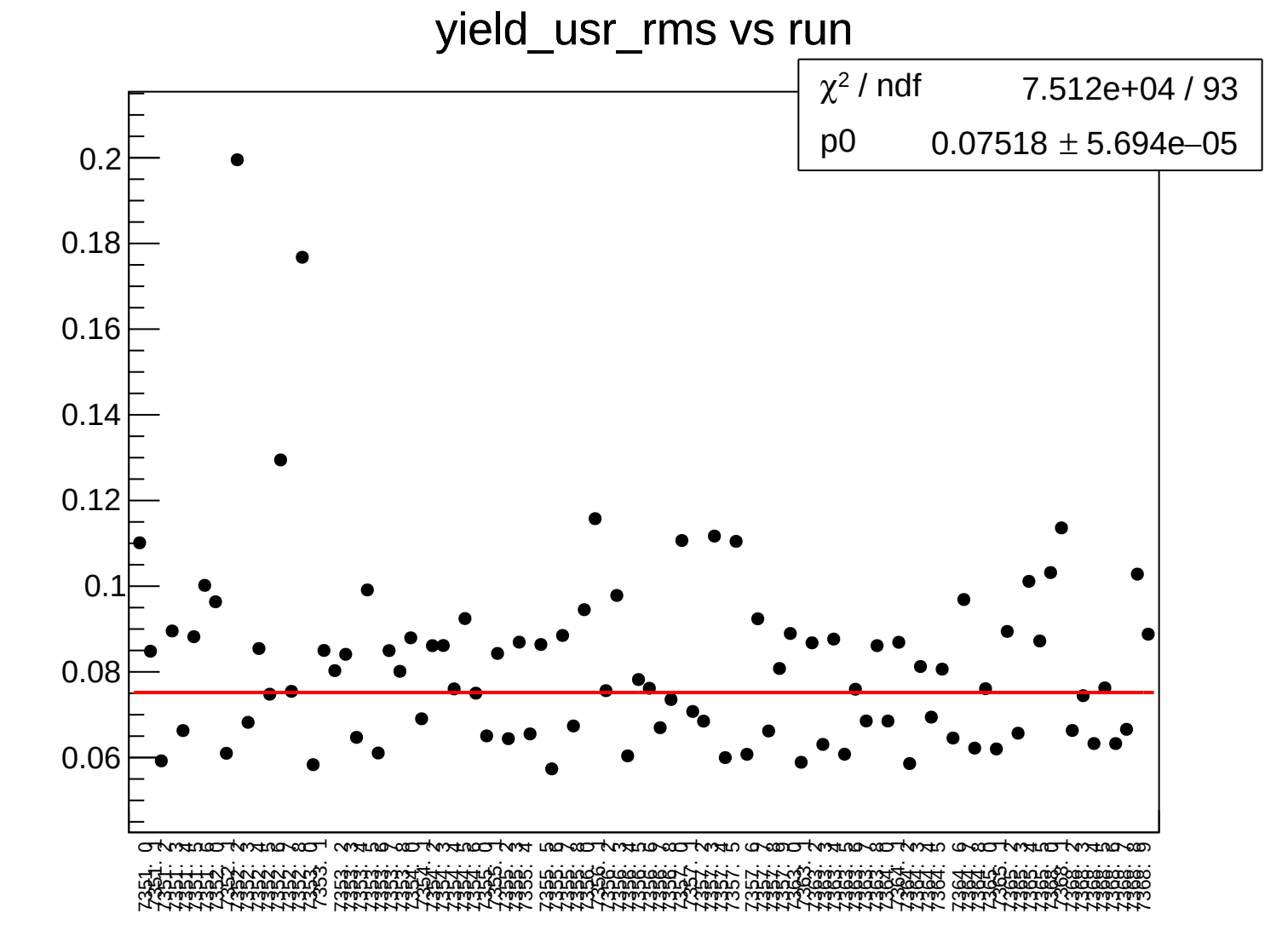

yield_usl_mean vs run
χ² / ndf 4.715e+06 / 93
p0 31.25 ± 8.715e−05
31.6
31.5
31.4
31.3
31.2
31.1
31
30.9
30.8
pull
Entries 94
Mean 317.4
Std Dev 0
400
200
0
−200
−400
−600

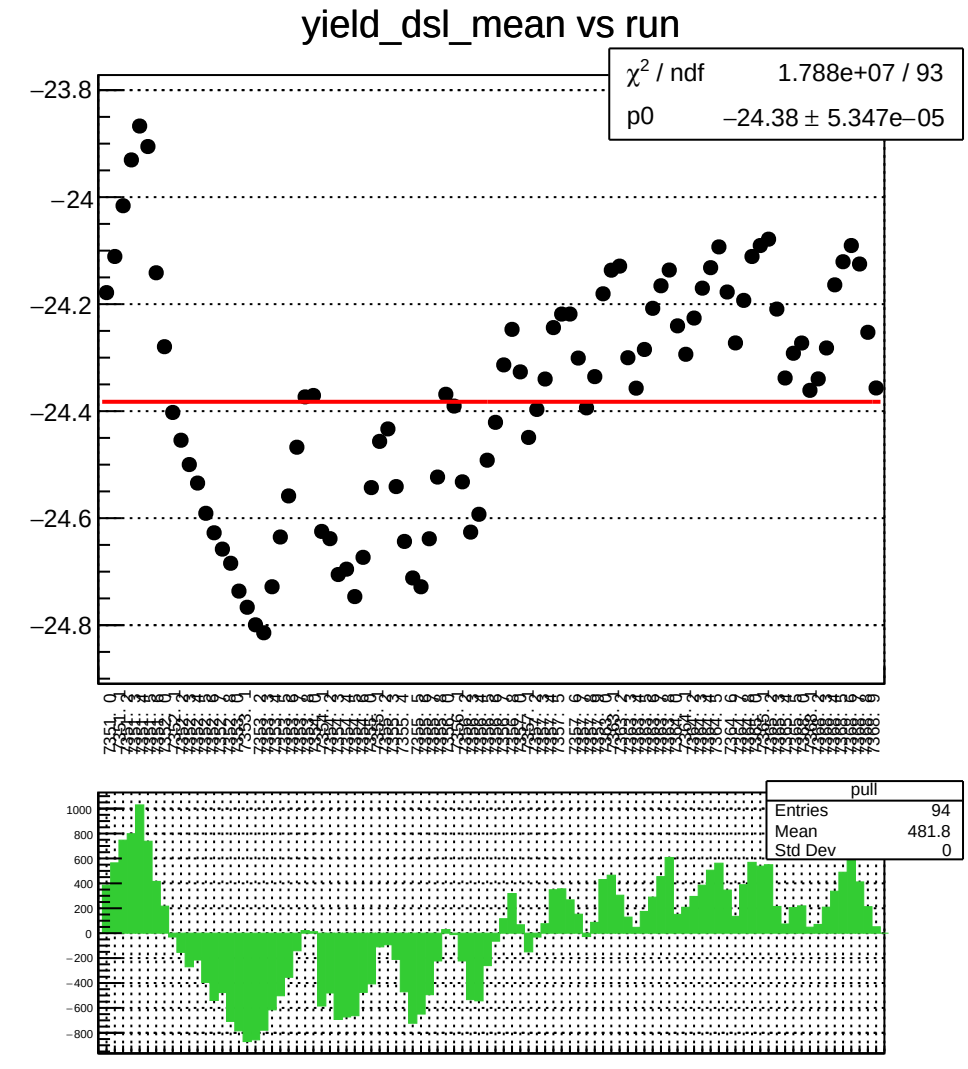

pull1D
Entries 94
Mean −1.727
Std Dev 4.101
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

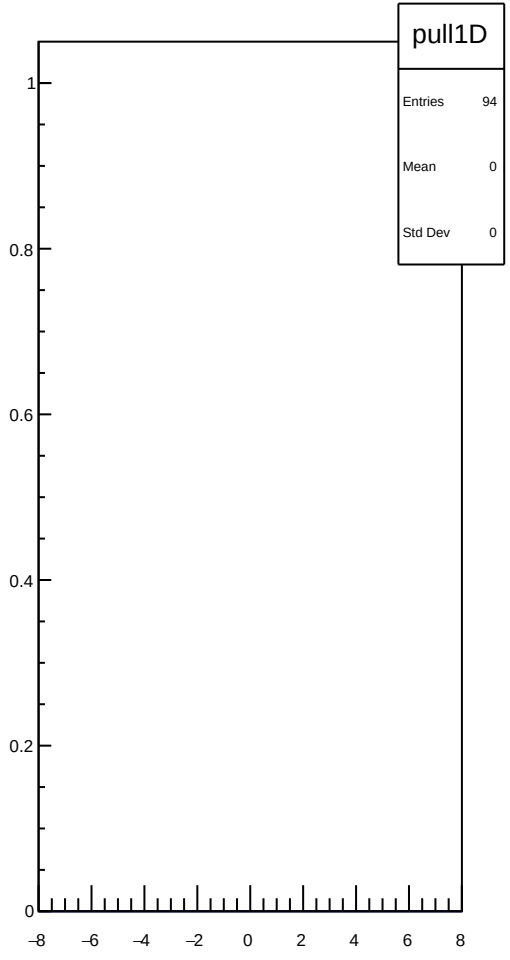

yield_usl_rms vs run
χ² / ndf 9.585e+04 / 93
p0 0.08088 ± 6.162e−05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06

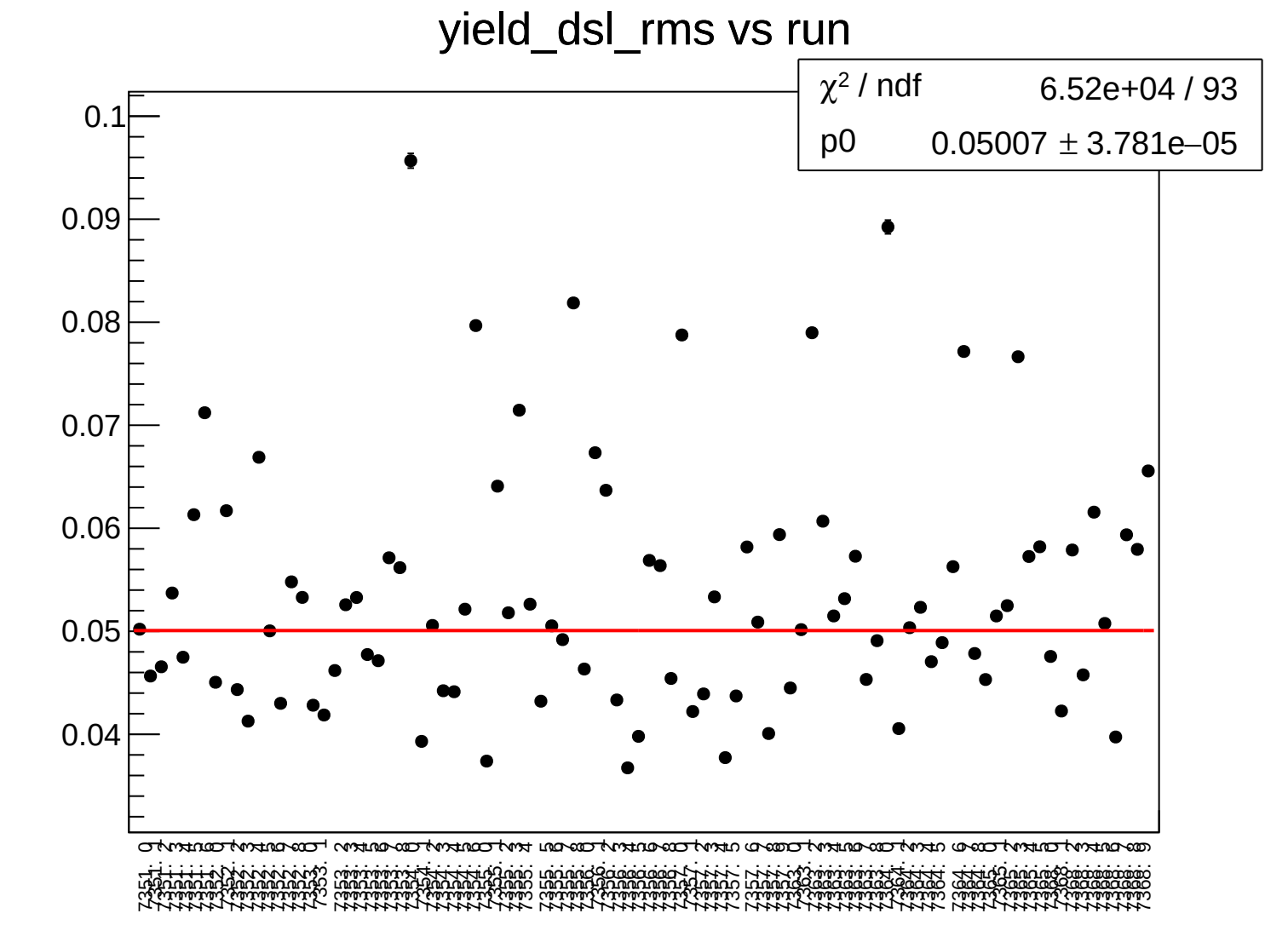

yield_usr_mean vs run
χ² / ndf 3.442e+06 / 93
p0 32.22 ± 8.052e−05
32.5
32.4
32.3
32.2
32.1
32
31.9
31.8
pull
Entries 94
Mean −3870
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400
−500

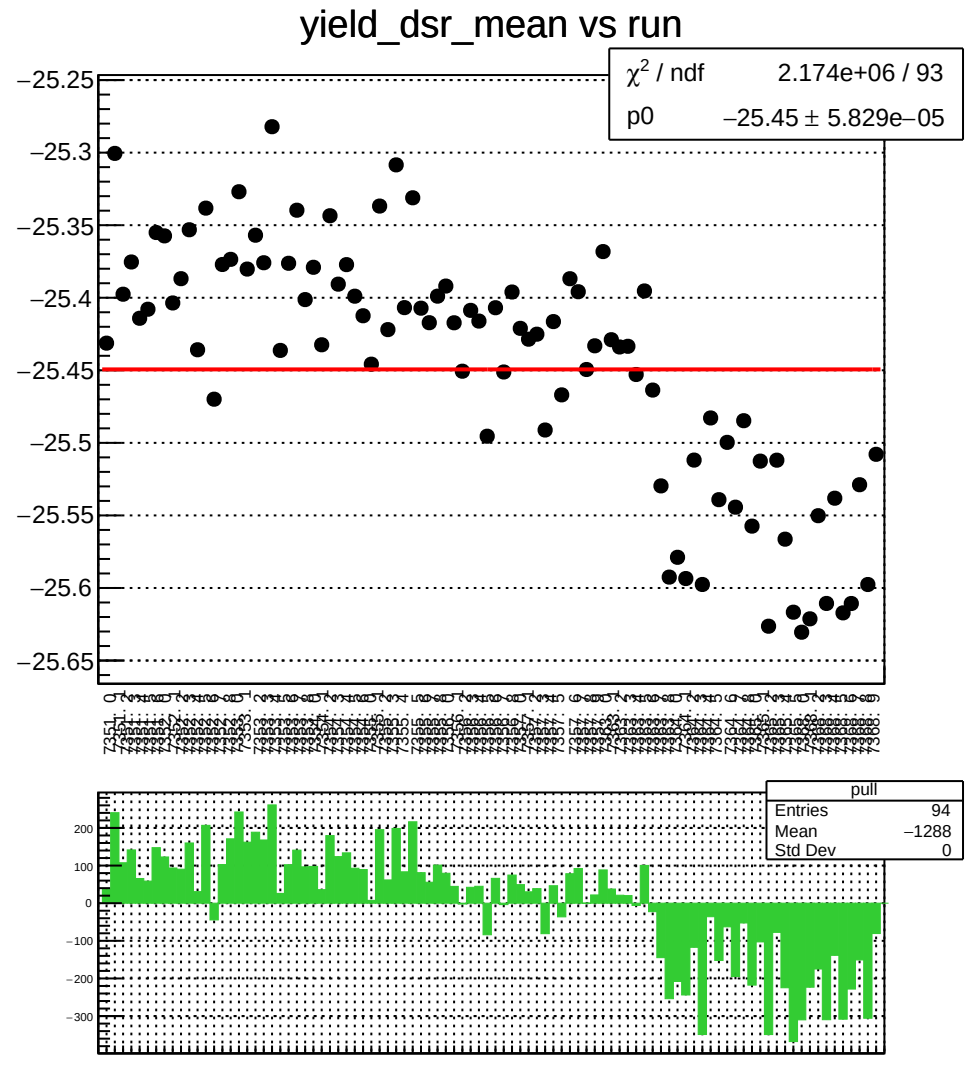

pull1D
Entries 94
Mean −4.727
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

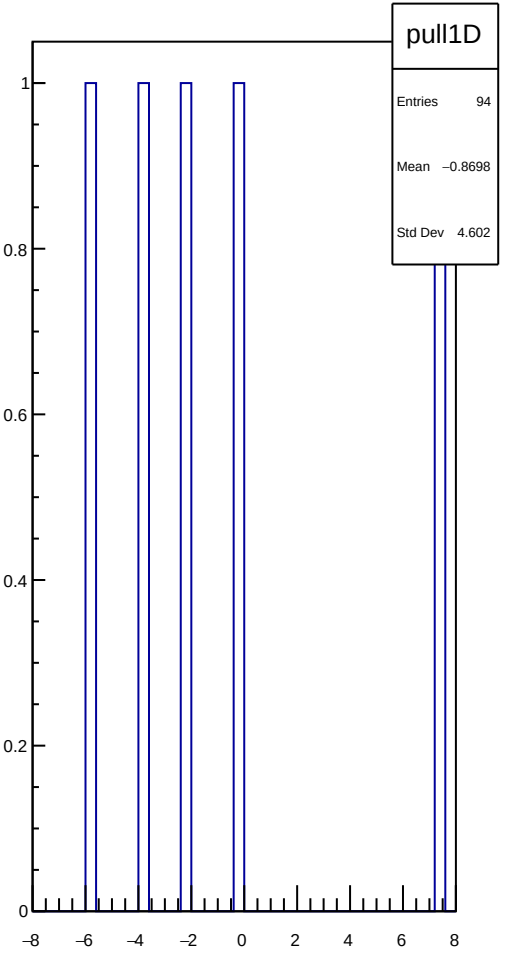

yield_usr_rms vs run
χ² / ndf 7.512e+04 / 93
p0 0.07518 ± 5.694e−05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06

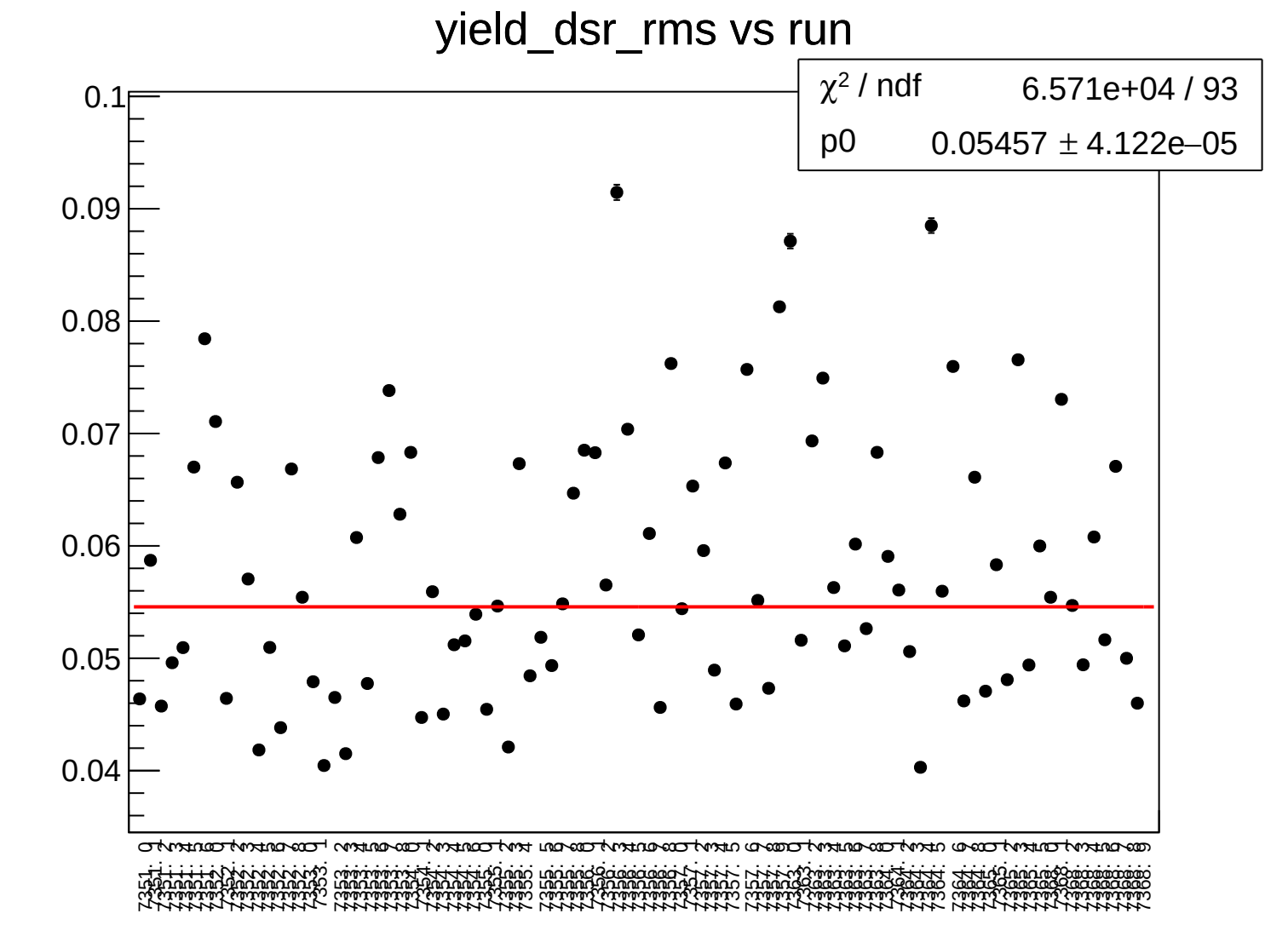

yield_dsl_mean vs run
χ² / ndf 1.788e+07 / 93
p0 −24.38 ± 5.347e−05
−23.8
−24
−24.2
−24.4
−24.6
−24.8
pull
Entries 94
Mean 481.8
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600
−800

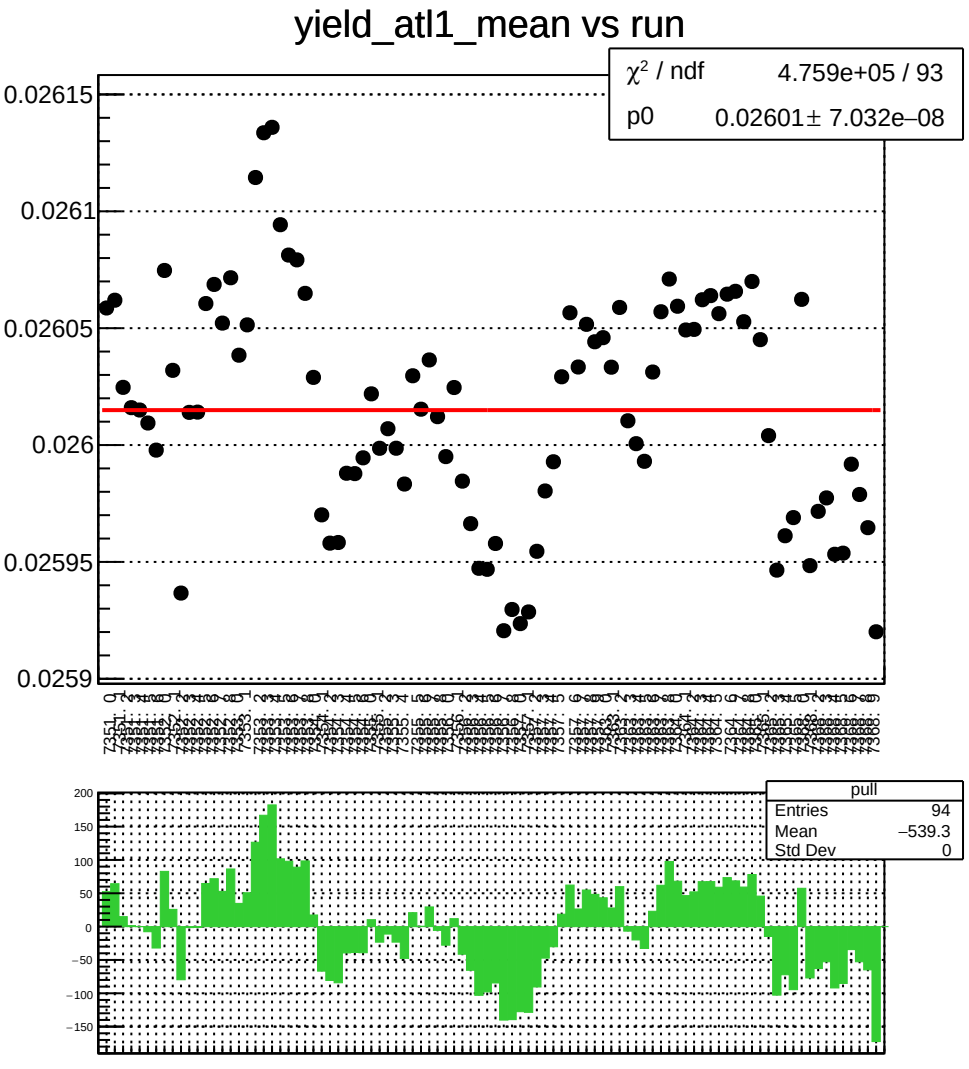

pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

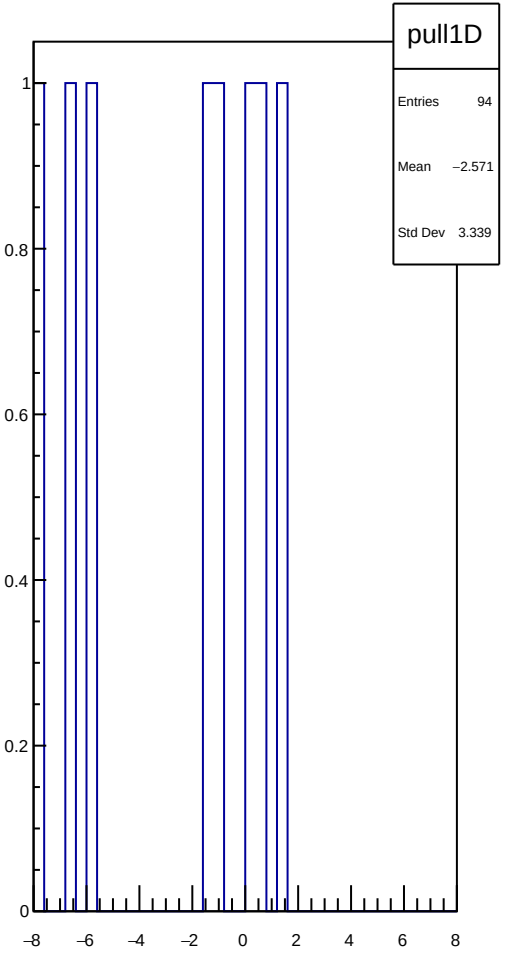

yield_dsl_rms vs run
χ² / ndf 6.52e+04 / 93
p0 0.05007 ± 3.781e–05
0.1
0.09
0.08
0.07
0.06
0.05
0.04

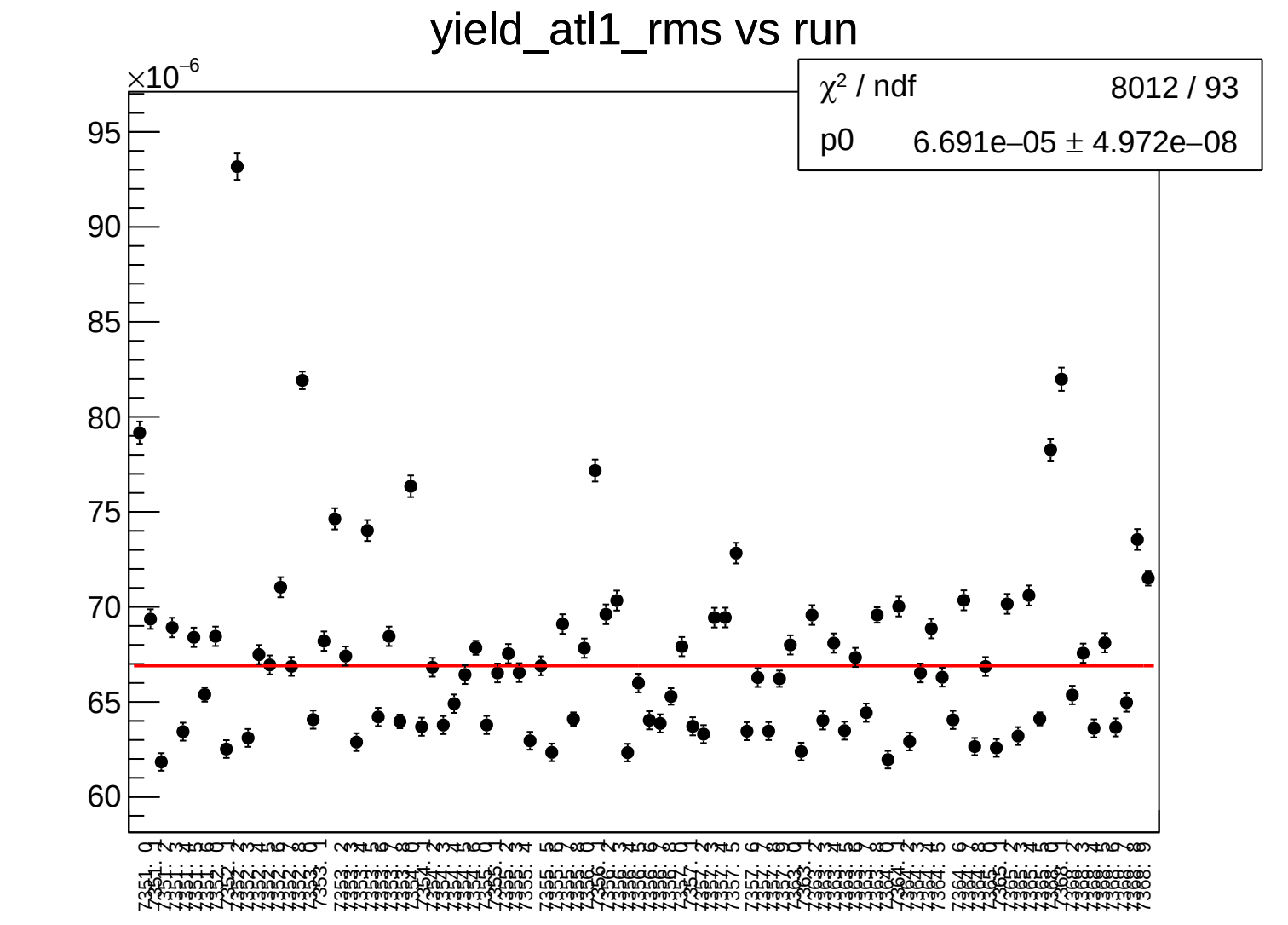

yield_dsr_mean vs run
χ² / ndf 2.174e+06 / 93
p0 −25.45 ± 5.829e−05
−25.25
−25.3
−25.35
−25.4
−25.45
−25.5
−25.55
−25.6
−25.65
pull
Entries 94
Mean −1288
Std Dev 0
200
100
0
−100
−200
−300

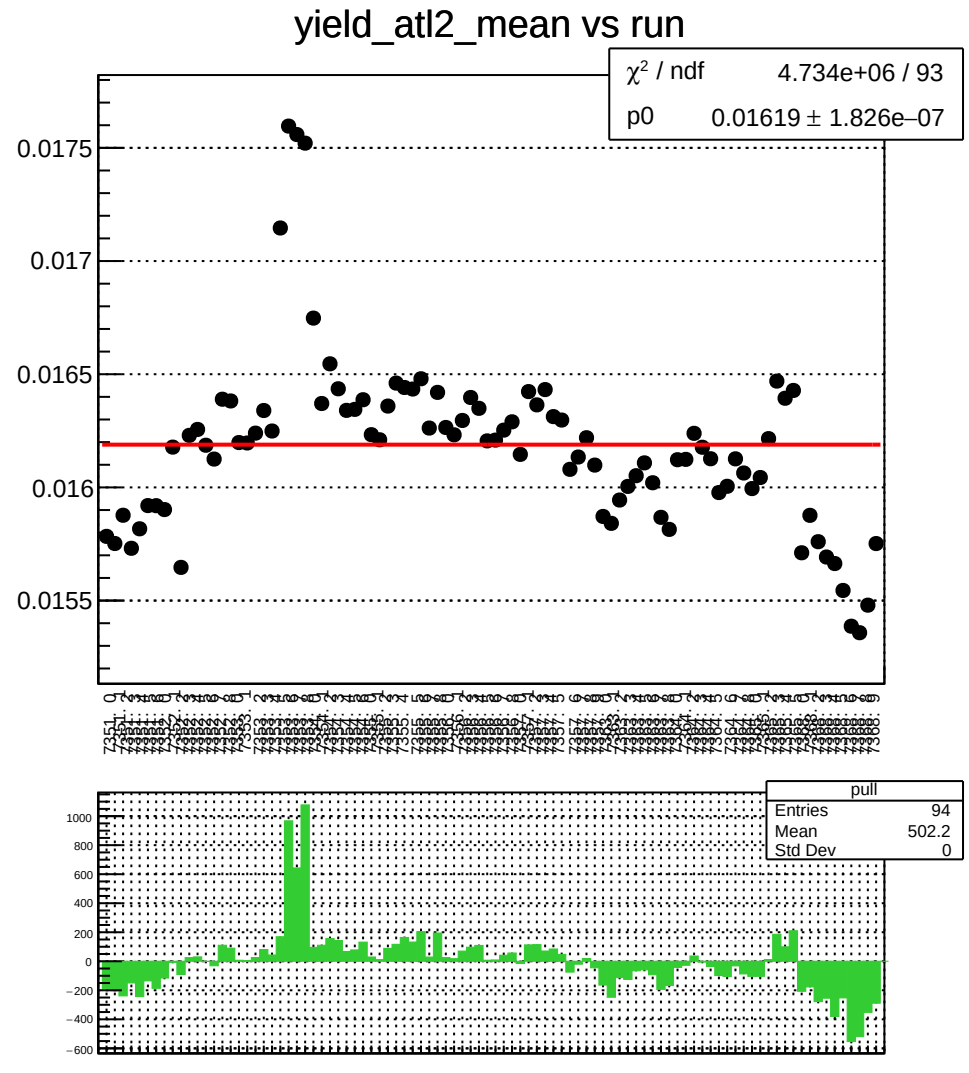

pull1D
Entries 94
Mean −0.8698
Std Dev 4.602
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

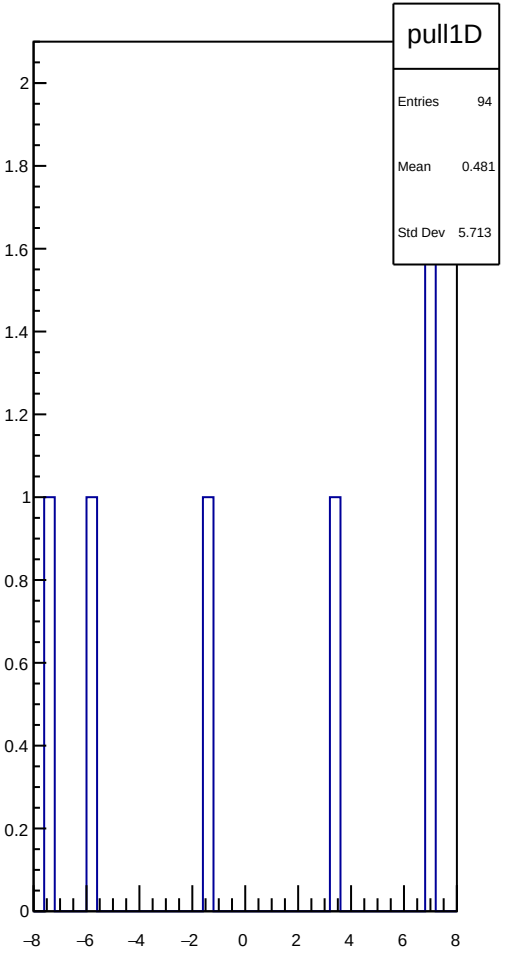

yield_dsr_rms vs run
χ^2 / ndf 6.571e+04 / 93
p0 0.05457 ± 4.122e–05
0.1
0.09
0.08
0.07
0.06
0.05
0.04

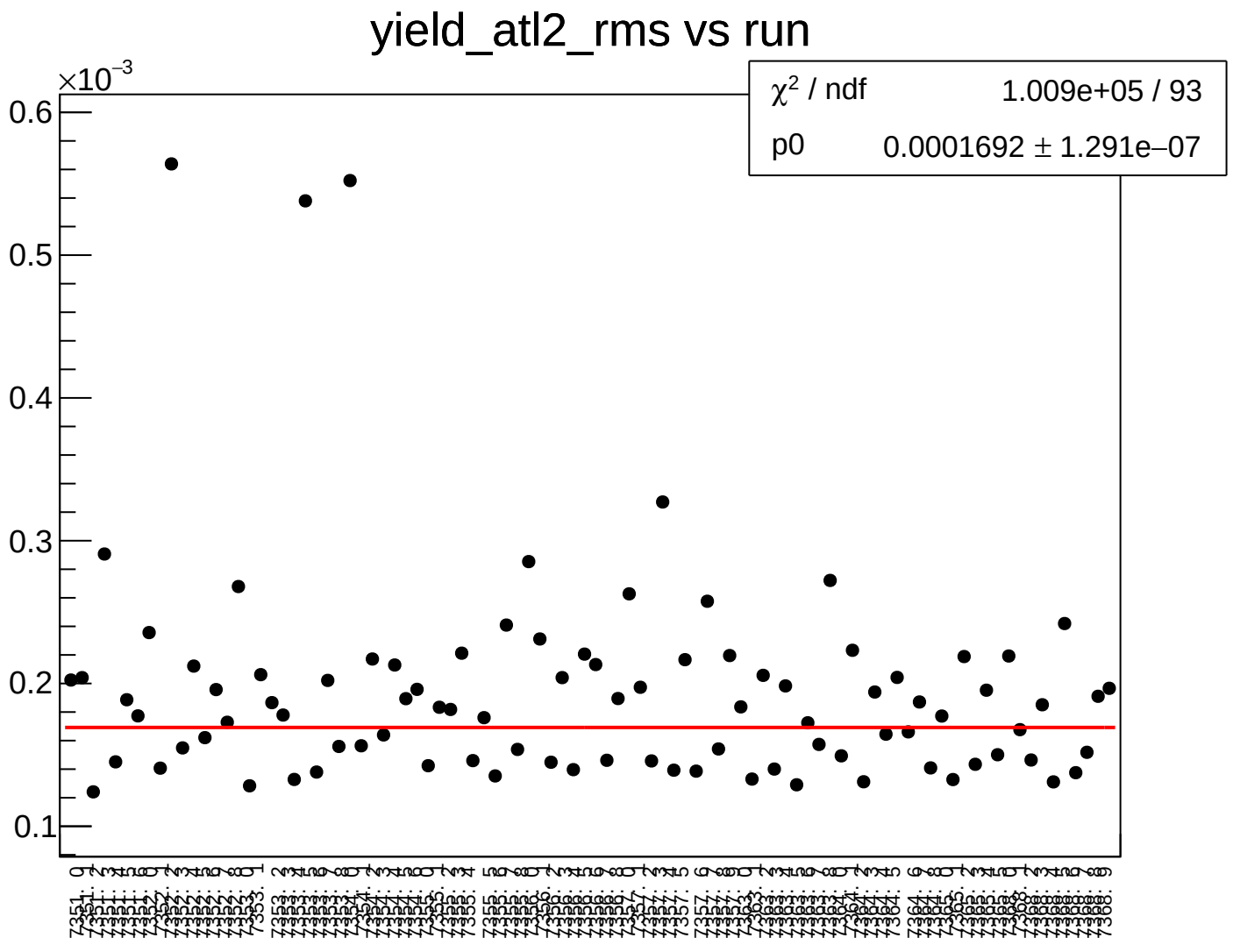

yield_atl1_mean vs run
χ² / ndf 4.759e+05 / 93
p0 0.02601± 7.032e−08
0.02615
0.0261
0.02605
0.026
0.02595
0.0259
pull
Entries 94
Mean −539.3
Std Dev 0
200
150
100
50
0
−50
−100
−150

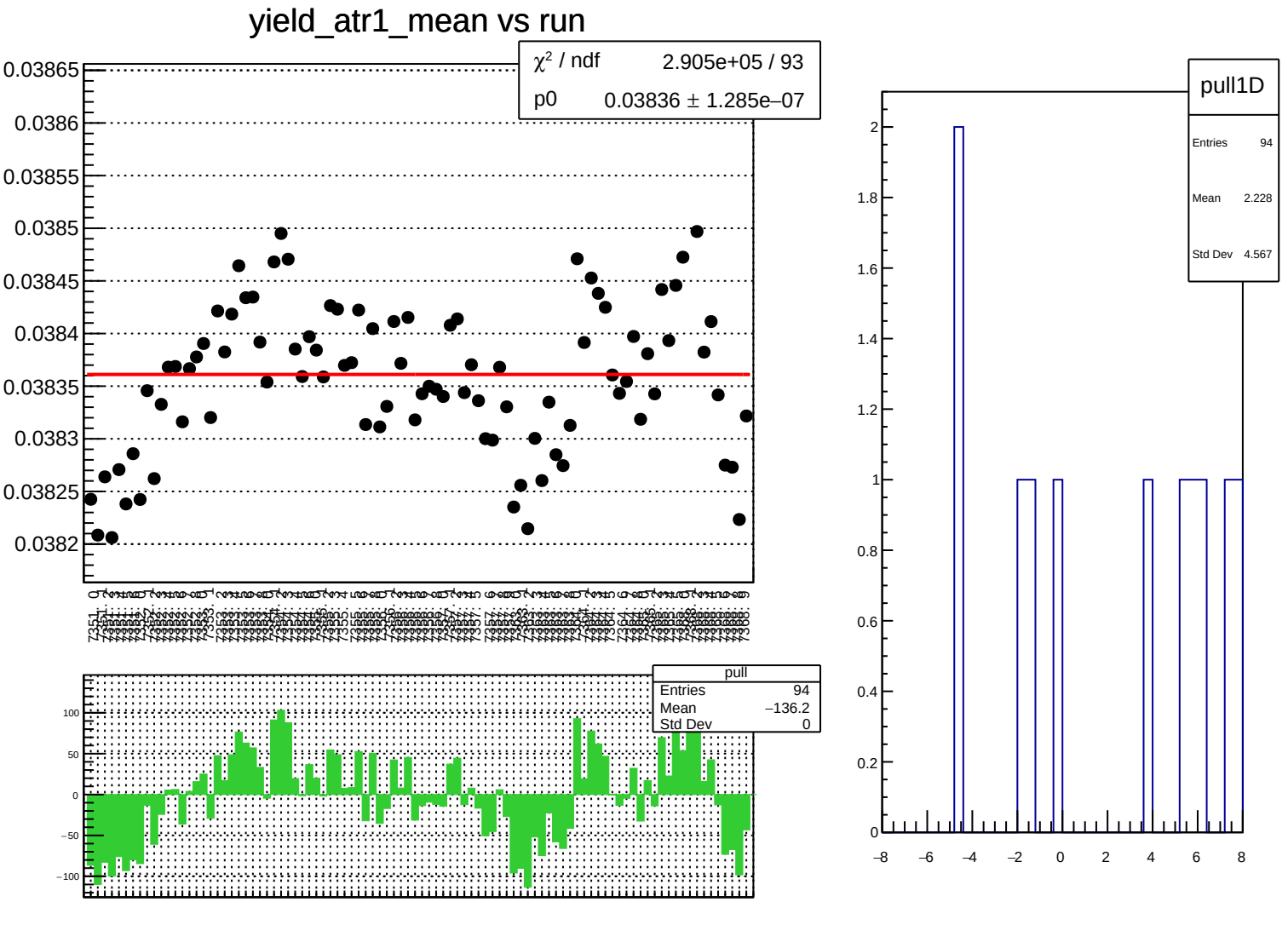

pull1D
Entries 94
Mean −2.571
Std Dev 3.339
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

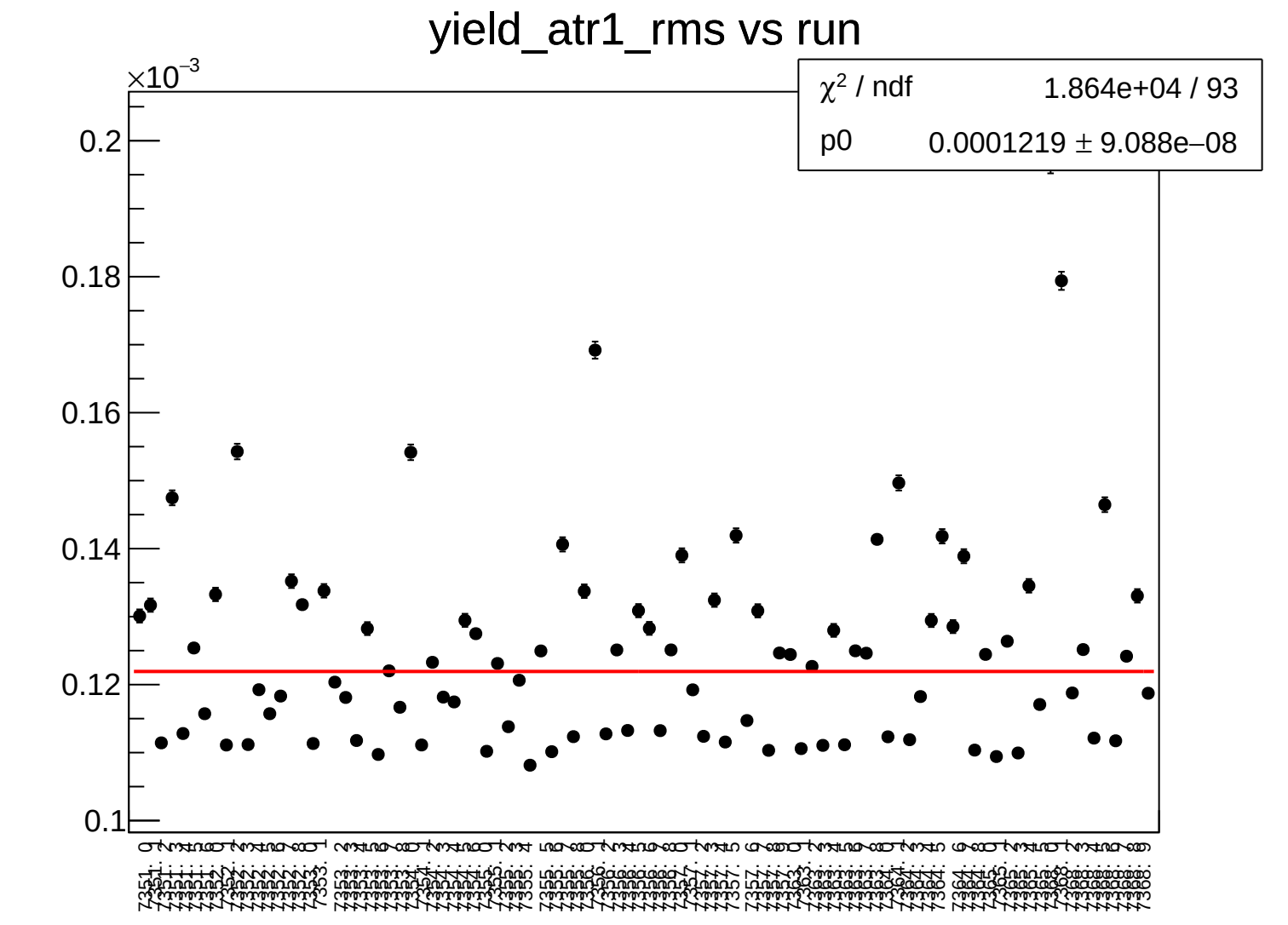

yield_atl1_rms vs run
χ^2 / ndf 8012 / 93
p0 6.691e−05 ± 4.972e−08
×10⁻⁶
95
90
85
80
75
70
65
60

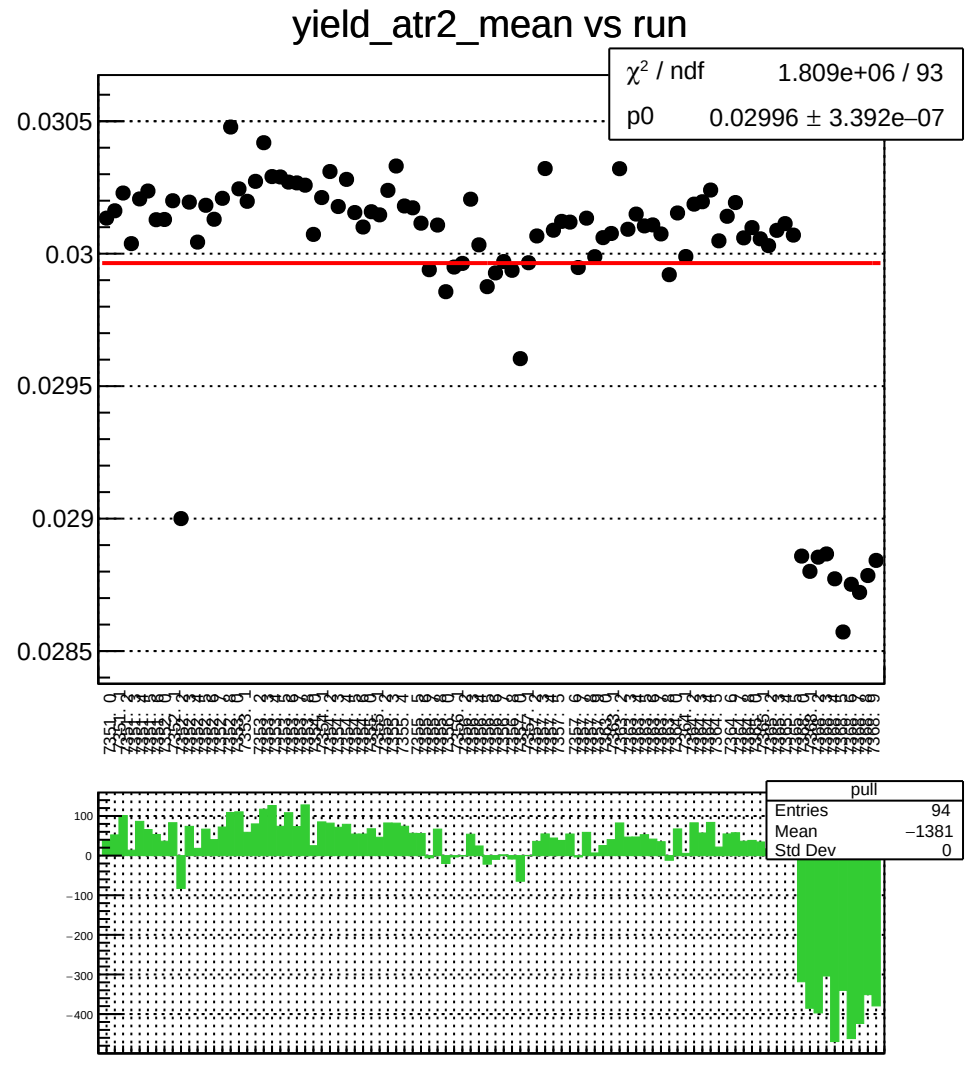

yield_atl2_mean vs run
χ² / ndf 4.734e+06 / 93
p0 0.01619 ± 1.826e–07
0.0175
0.017
0.0165
0.016
0.0155
pull
Entries 94
Mean 502.2
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600

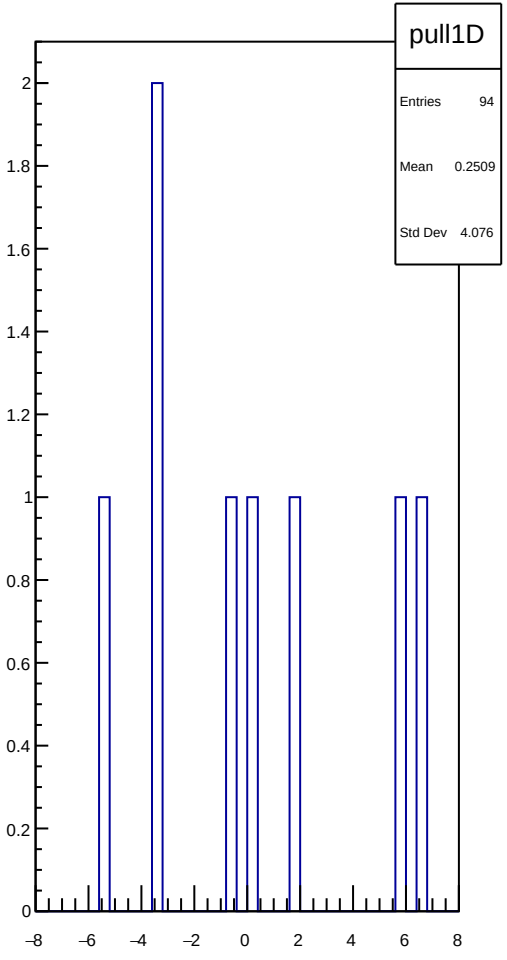

pull1D
Entries 94
Mean 0.481
Std Dev 5.713
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

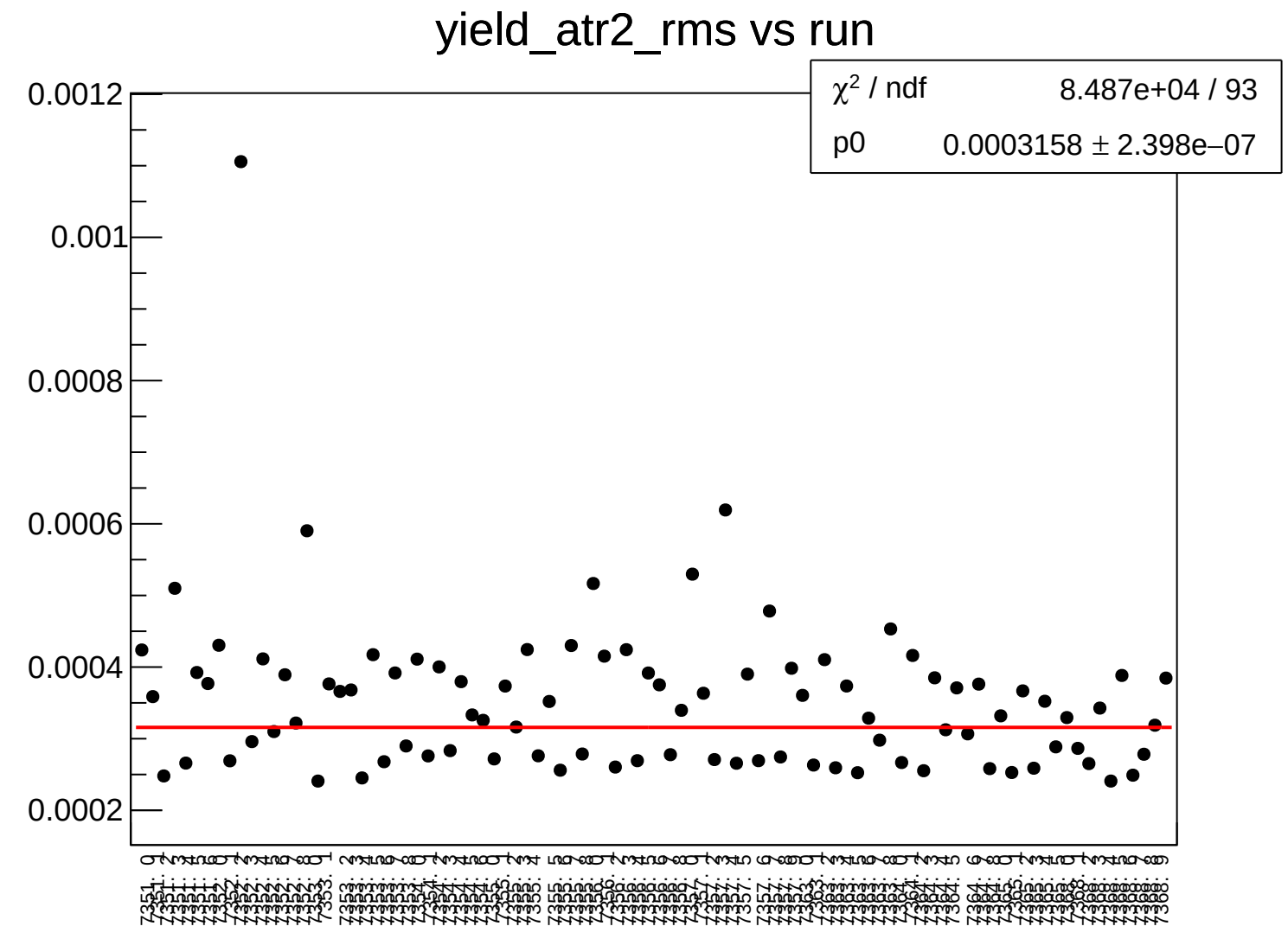

yield_atl2_rms vs run
×10⁻³
0.6
0.5
0.4
0.3
0.2
0.1
χ² / ndf 1.009e+05 / 93
p0 0.0001692 ± 1.291e−07

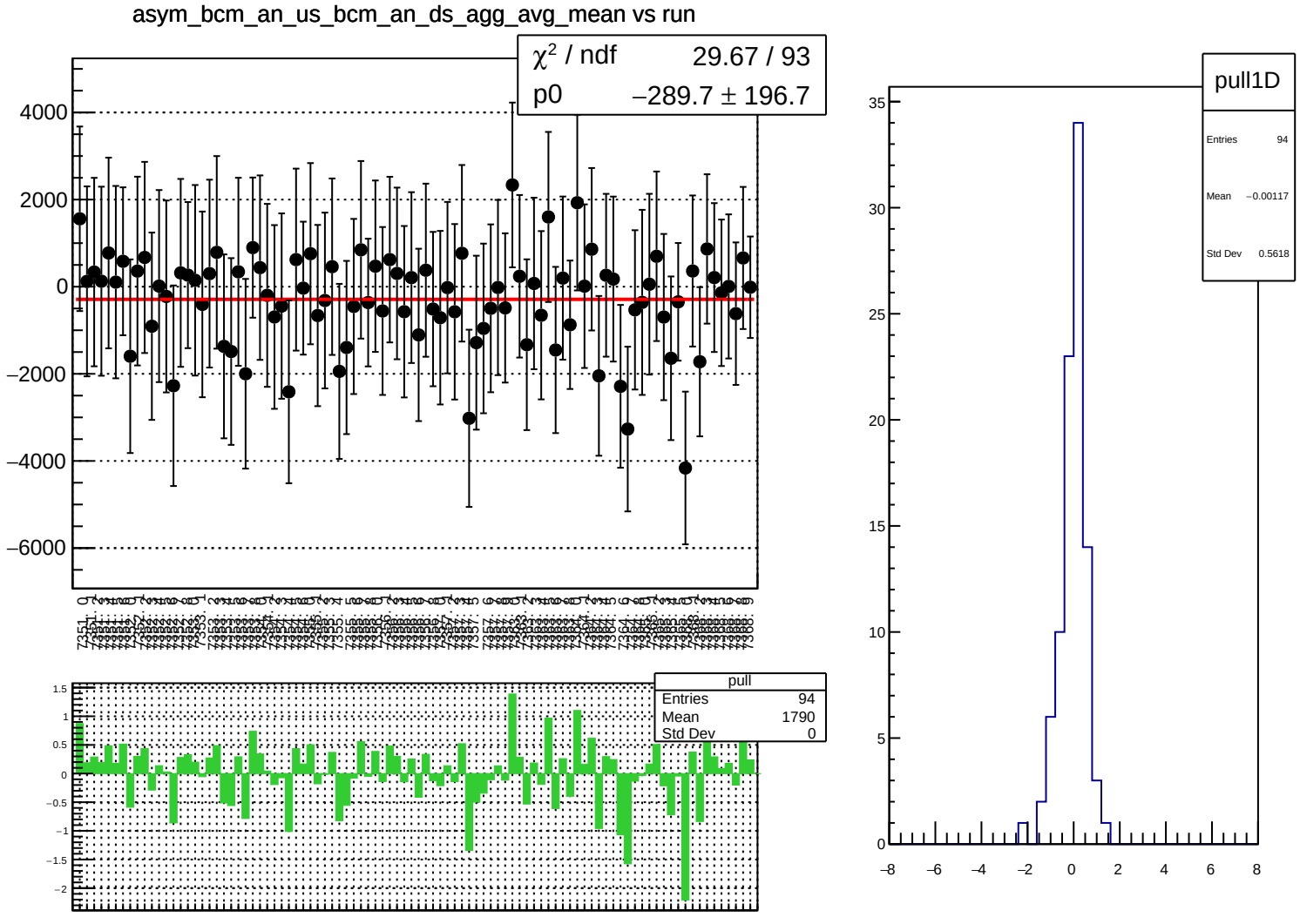

yield_atr1_mean vs run
χ² / ndf 2.905e+05 / 93
p0 0.03836 ± 1.285e−07
0.03865
0.0386
0.03855
0.0385
0.03845
0.0384
0.03835
0.0383
0.03825
0.0382
pull
Entries 94
Mean −136.2
Std Dev 0
100
50
0
−50
−100
pull1D
Entries 94
Mean 2.228
Std Dev 4.567
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

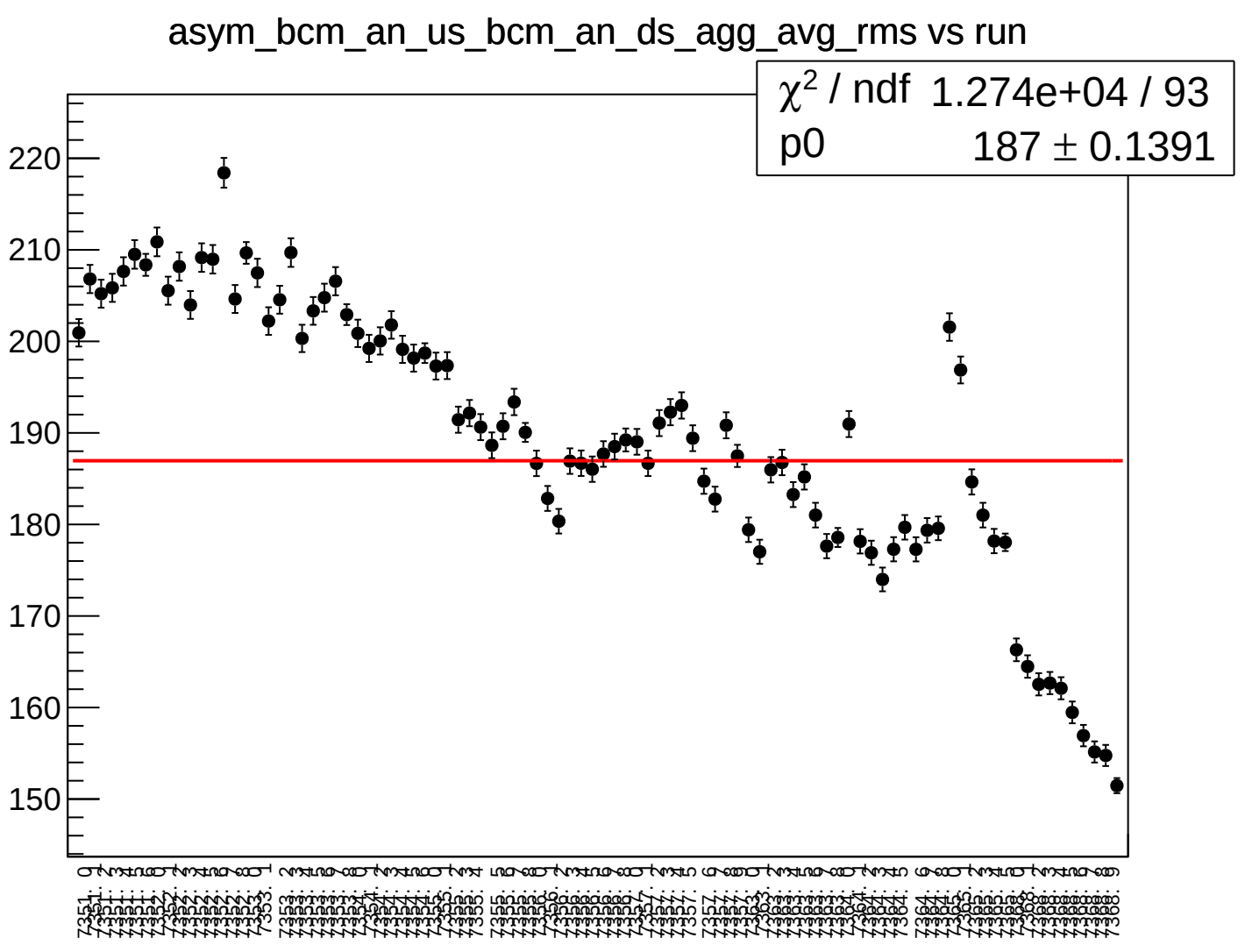

yield_atr1_rms vs run
×10⁻³
χ² / ndf 1.864e+04 / 93
p0 0.0001219 ± 9.088e−08
0.2
0.18
0.16
0.14
0.12
0.1

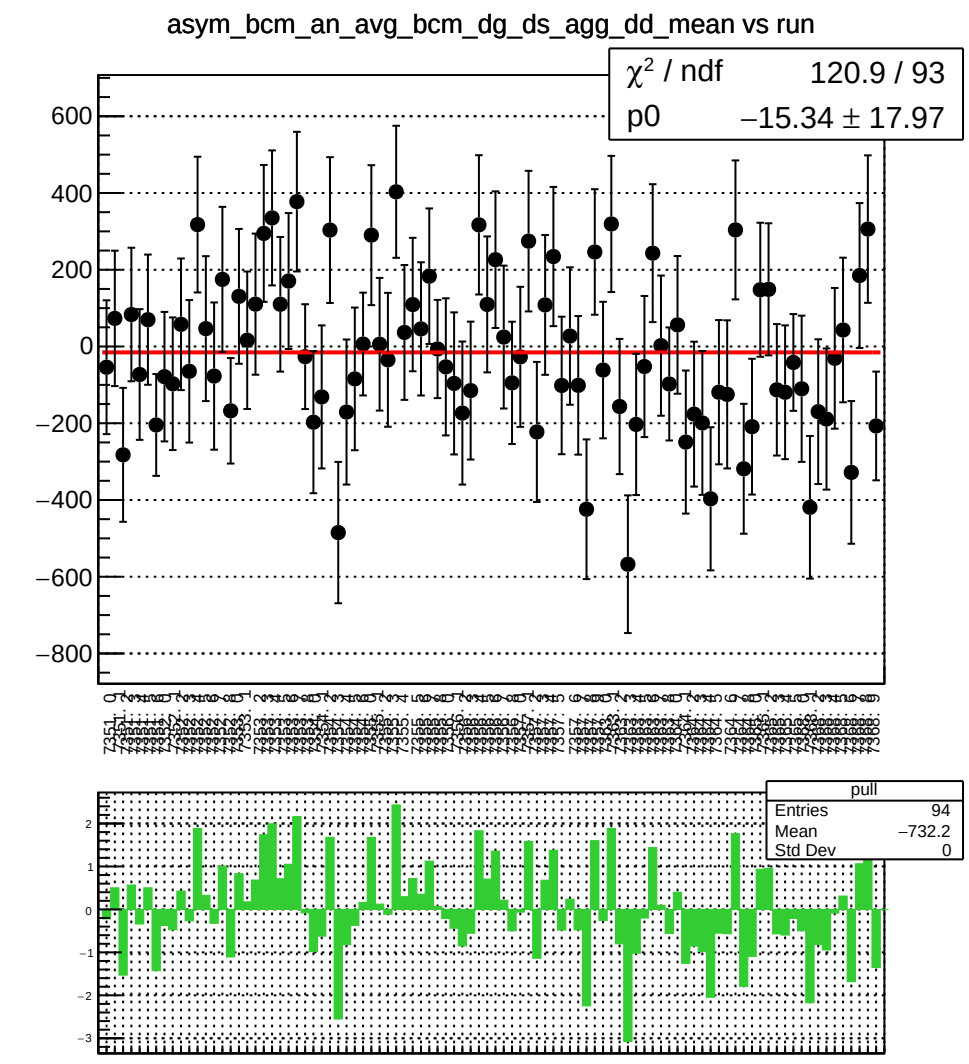

yield_atr2_mean vs run
χ² / ndf 1.809e+06 / 93
p0 0.02996 ± 3.392e−07
0.0305
0.03
0.0295
0.029
0.0285
pull
Entries 94
Mean −1381
Std Dev 0
100
0
−100
−200
−300
−400

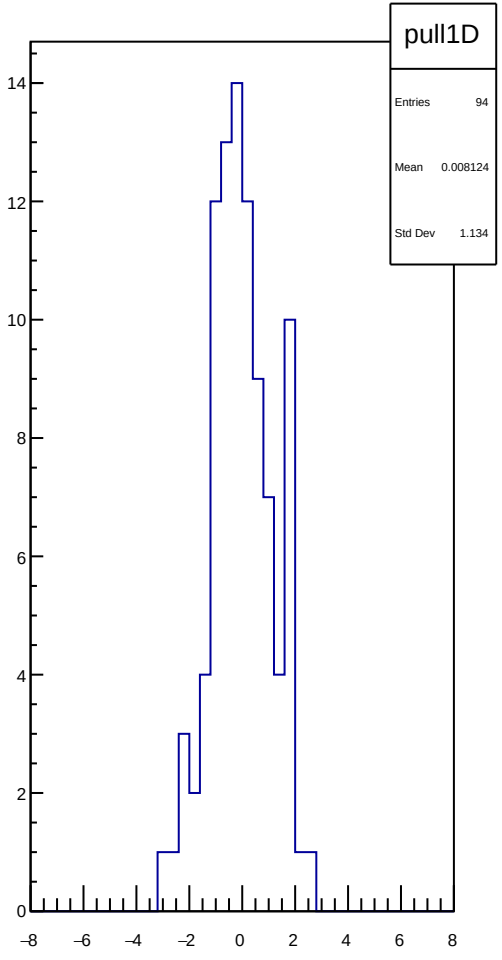

pull1D
Entries 94
Mean 0.2509
Std Dev 4.076
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

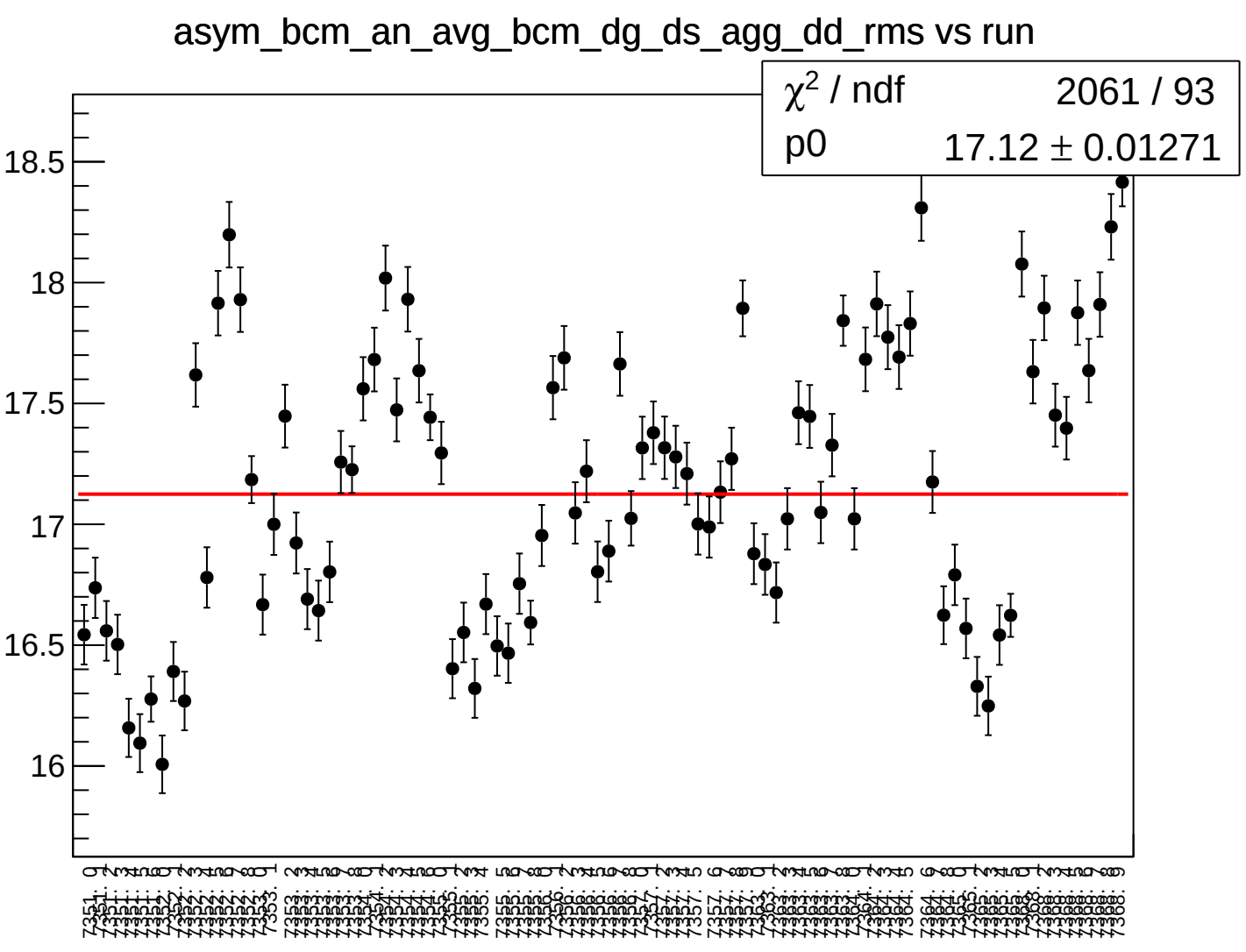

yield_atr2_rms vs run
χ² / ndf 8.487e+04 / 93
p0 0.0003158 ± 2.398e−07
0.0012
0.001
0.0008
0.0006
0.0004
0.0002

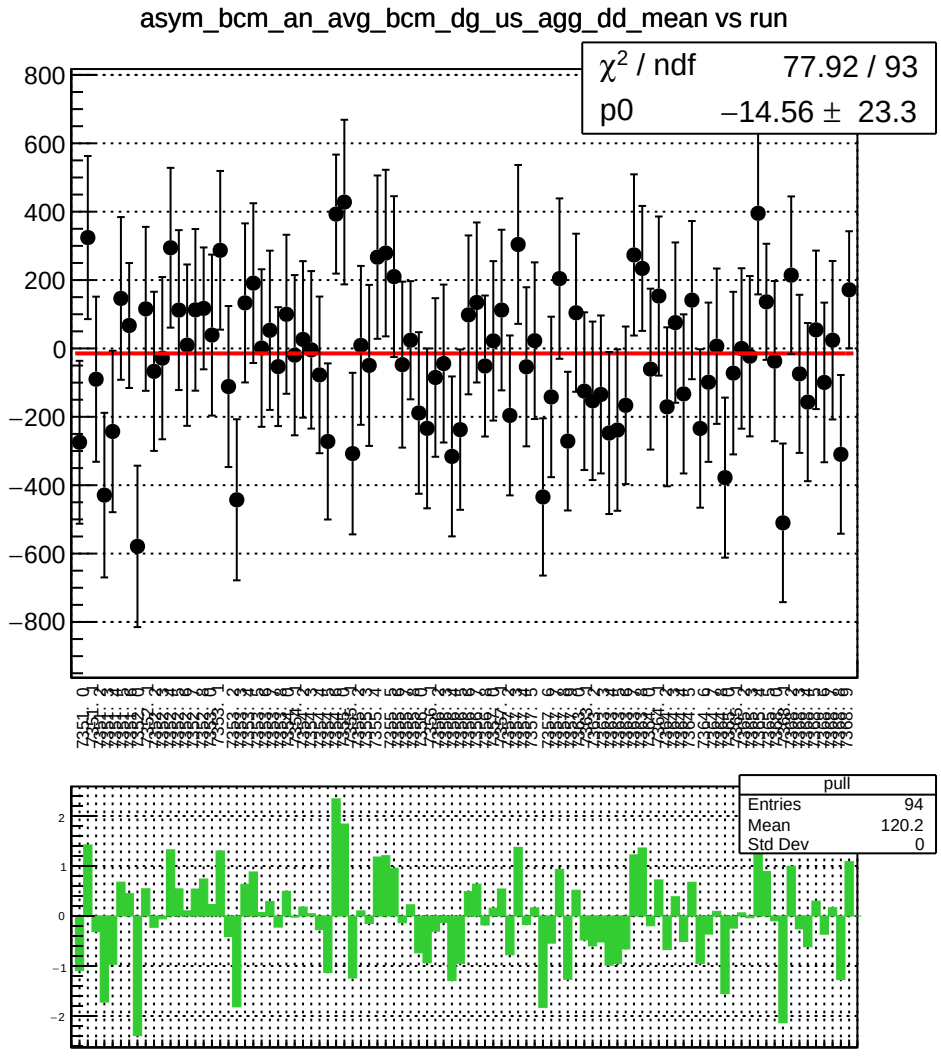

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 29.67 / 93
p0 −289.7 ± 196.7
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean 1790
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean −0.00117
Std Dev 0.5618
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

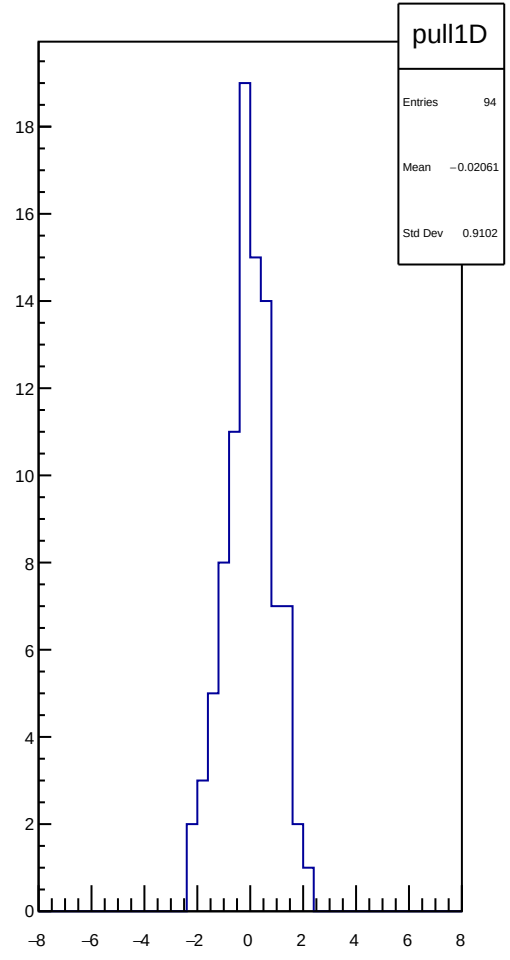

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.274e+04 / 93
p0 187 ± 0.1391
220
210
200
190
180
170
160
150

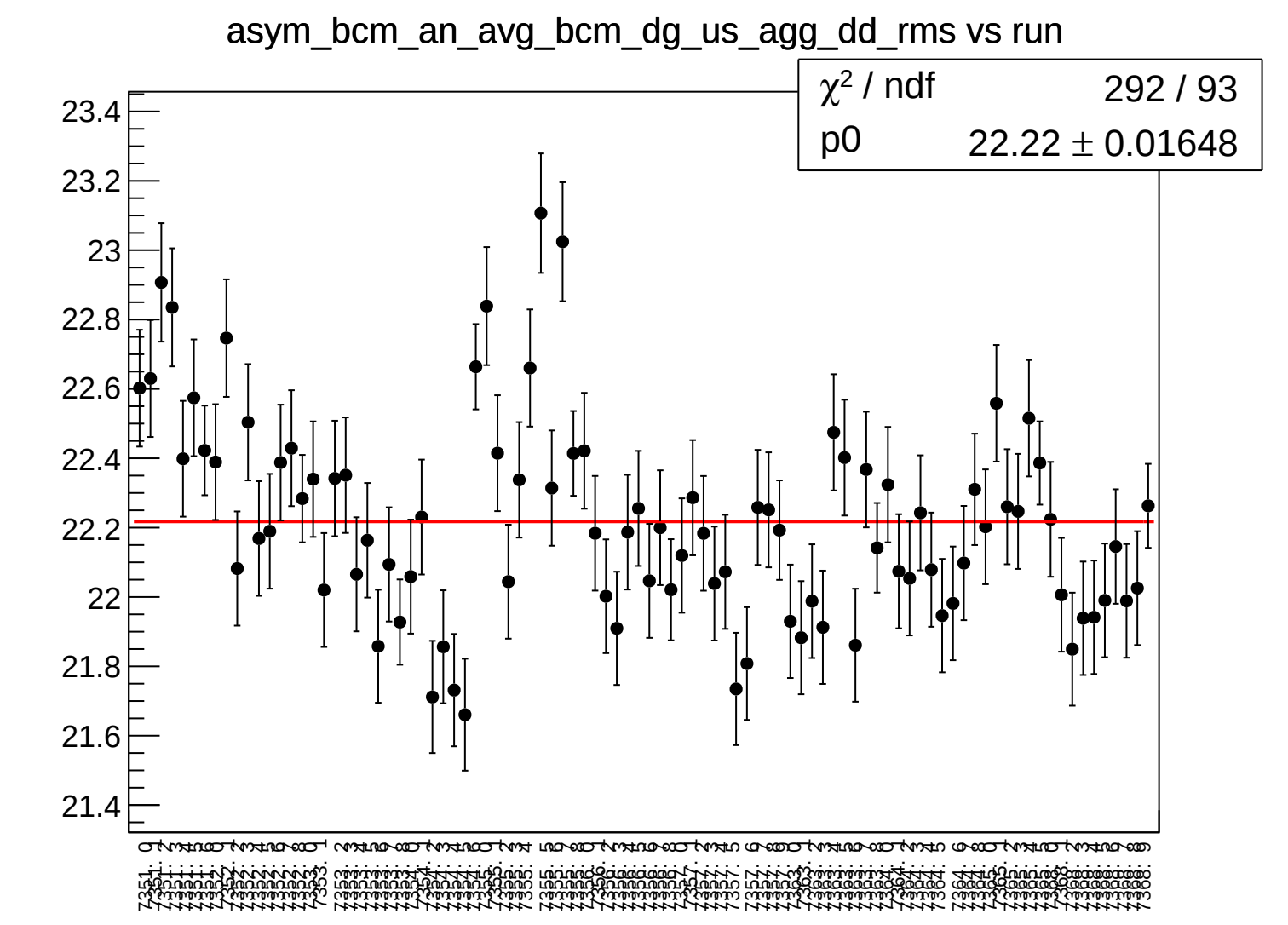

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 120.9 / 93
p0 −15.34 ± 17.97
pull
Entries 94
Mean −732.2
Std Dev 0

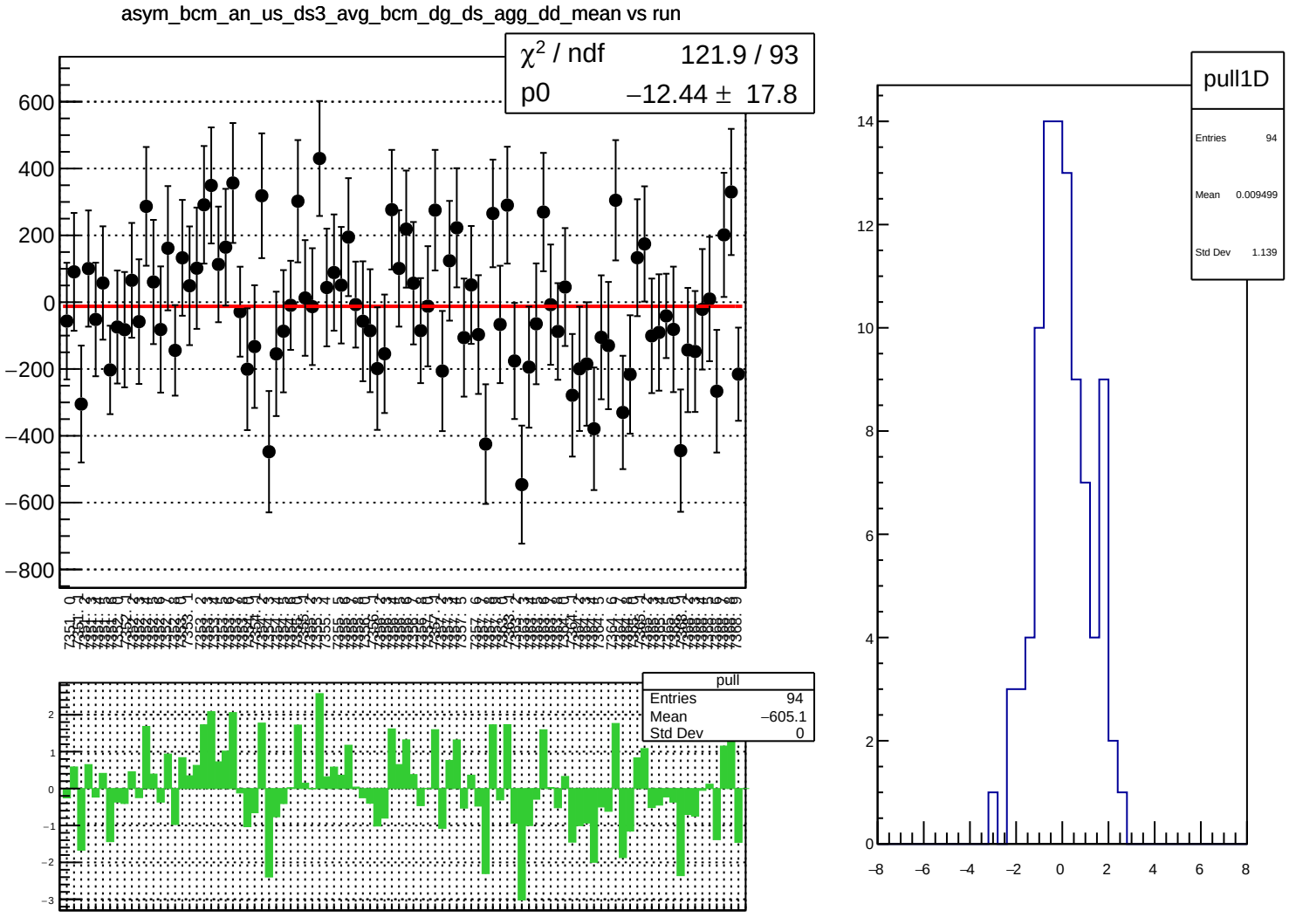

pull1D
Entries 94
Mean 0.008124
Std Dev 1.134

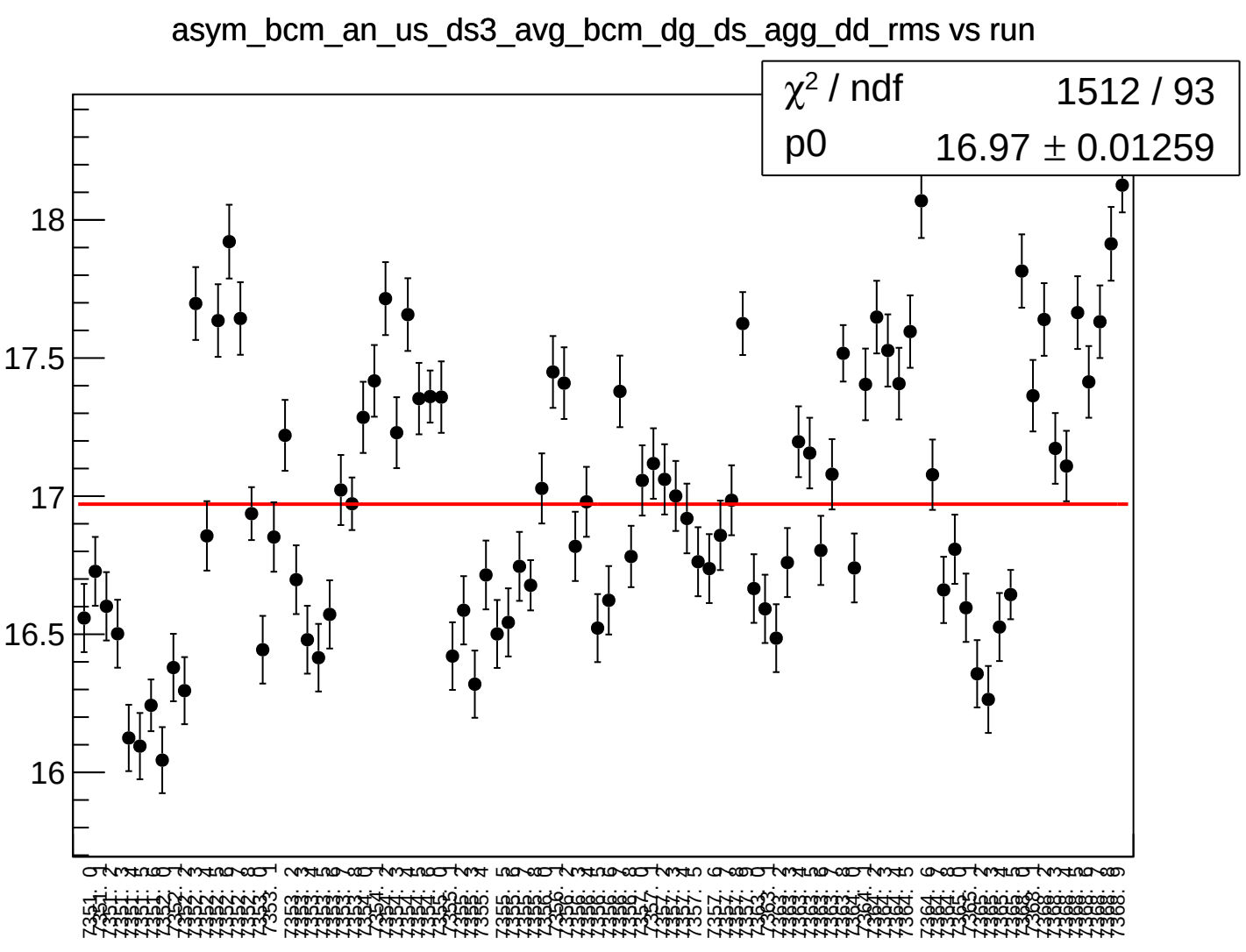

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ^2 / ndf 2061 / 93
p0 17.12 ± 0.01271
18.5
18
17.5
17
16.5
16

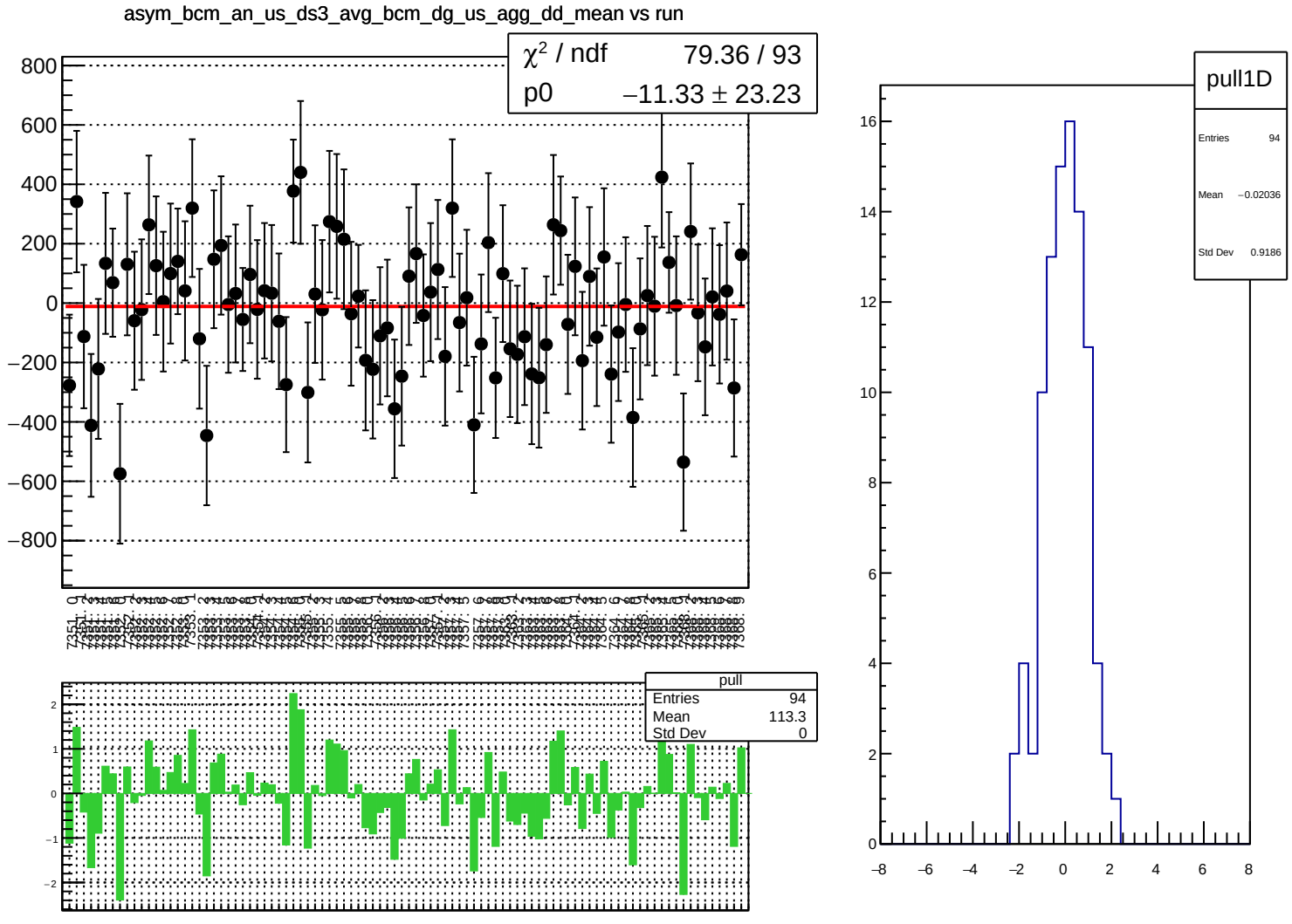

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 77.92 / 93
p0 −14.56 ± 23.3
pull
Entries 94
Mean 120.2
Std Dev 0

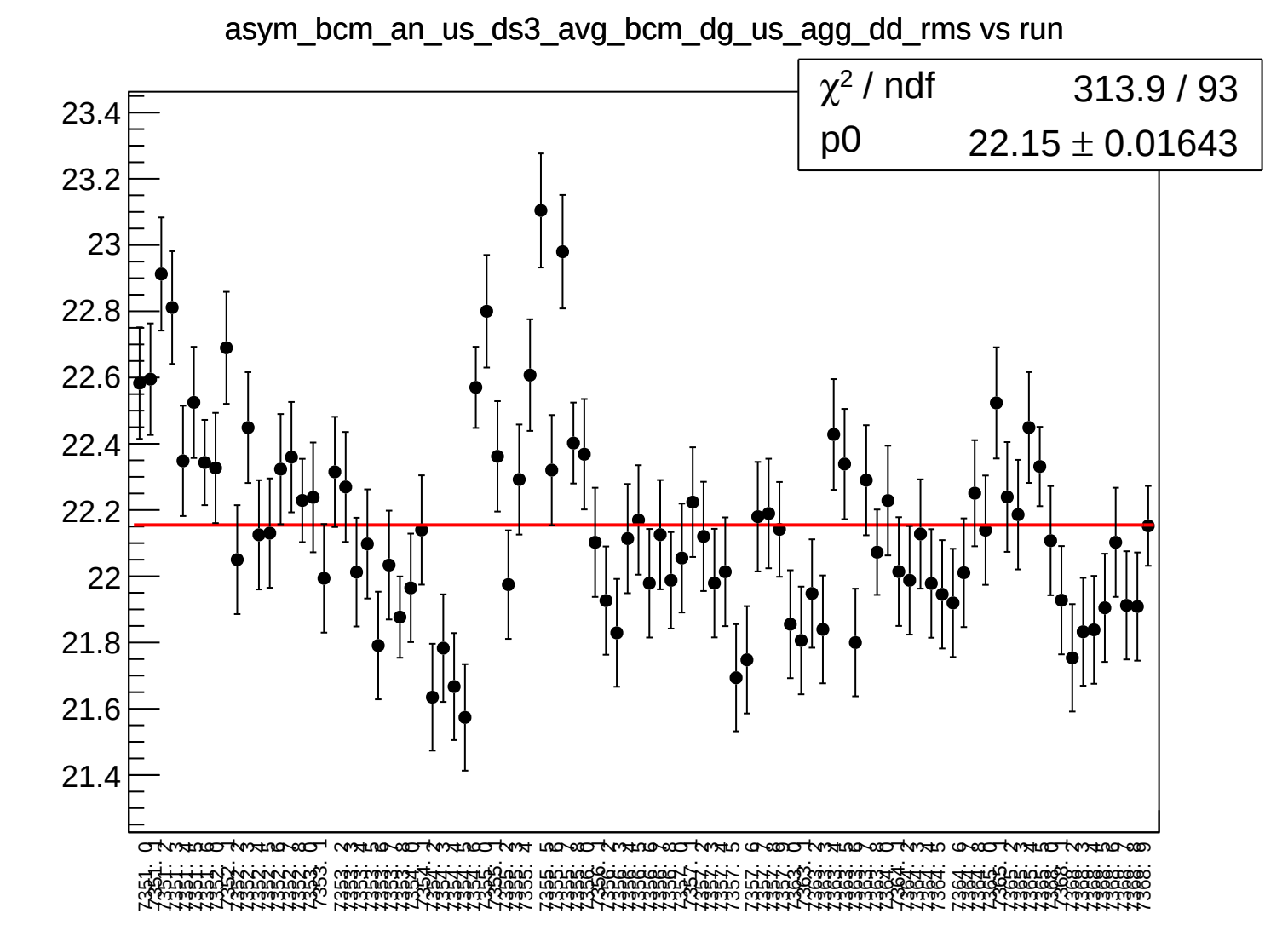

pull1D
Entries 94
Mean −0.02061
Std Dev 0.9102

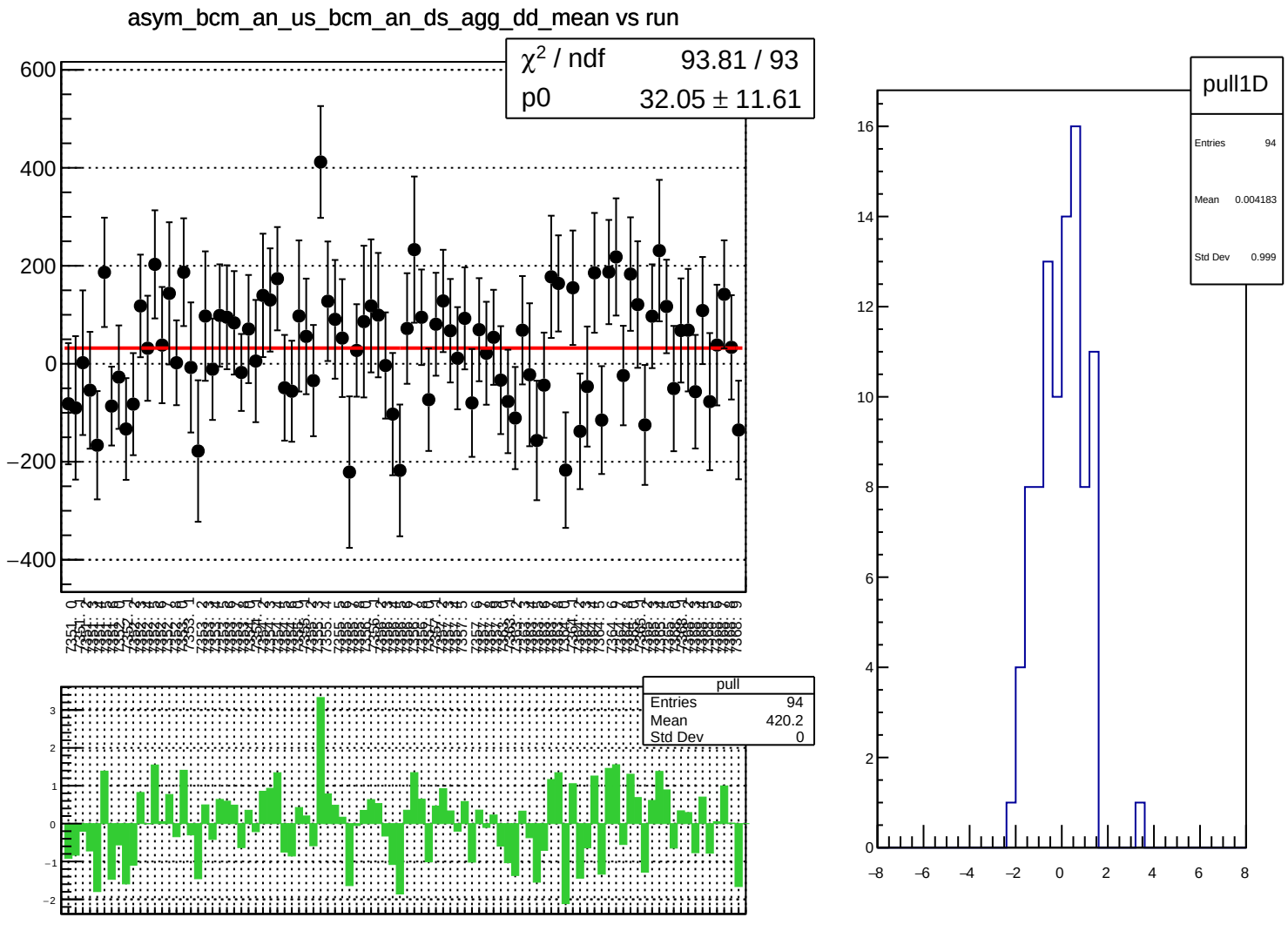

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 292 / 93
p0 22.22 ± 0.01648
23.4
23.2
23
22.8
22.6
22.4
22.2
22
21.8
21.6
21.4

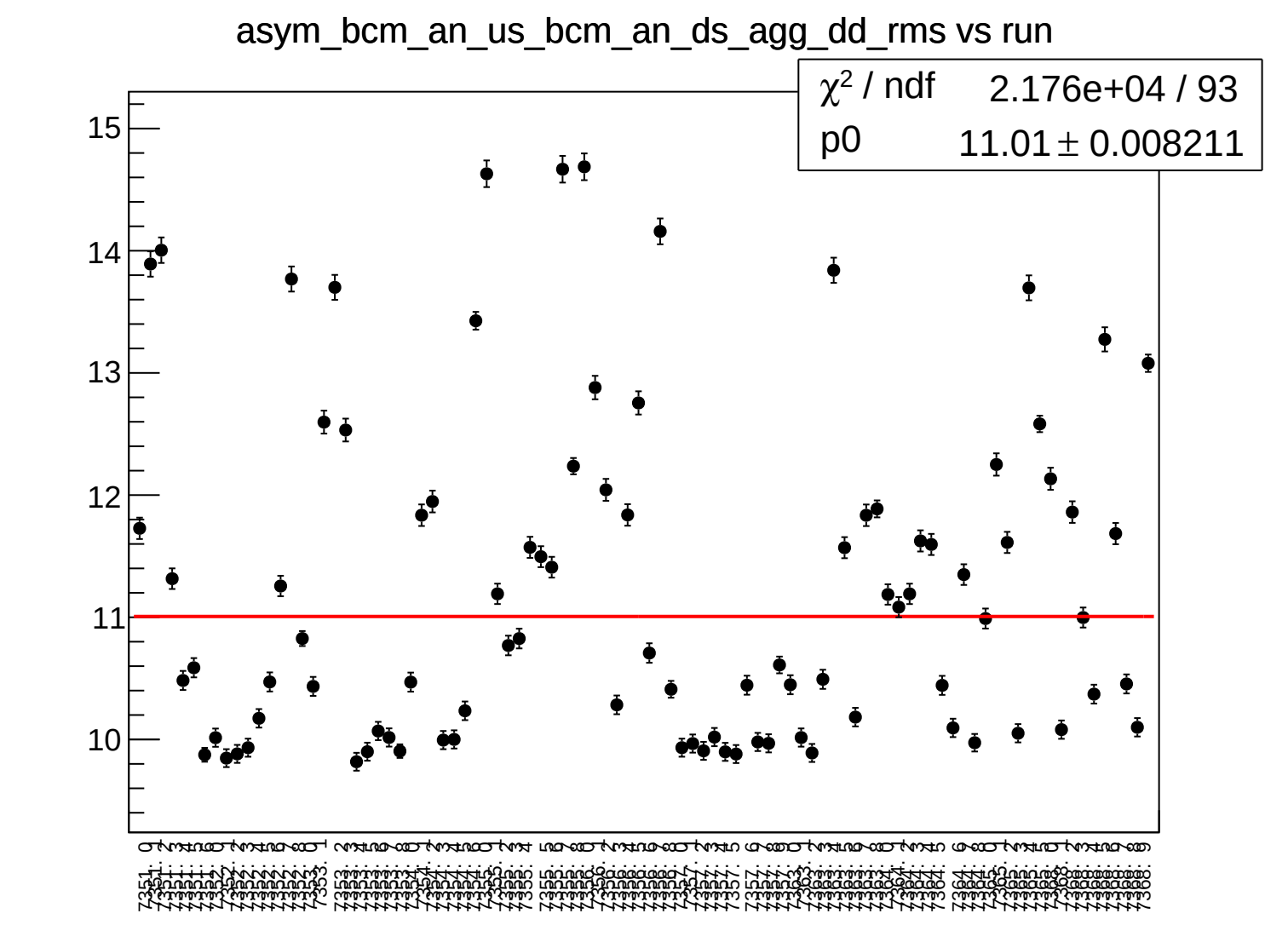

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 121.9 / 93
p0 −12.44 ± 17.8
600
400
200
0
−200
−400
−600
−800
pull
Entries 94
Mean −605.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.009499
Std Dev 1.139
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

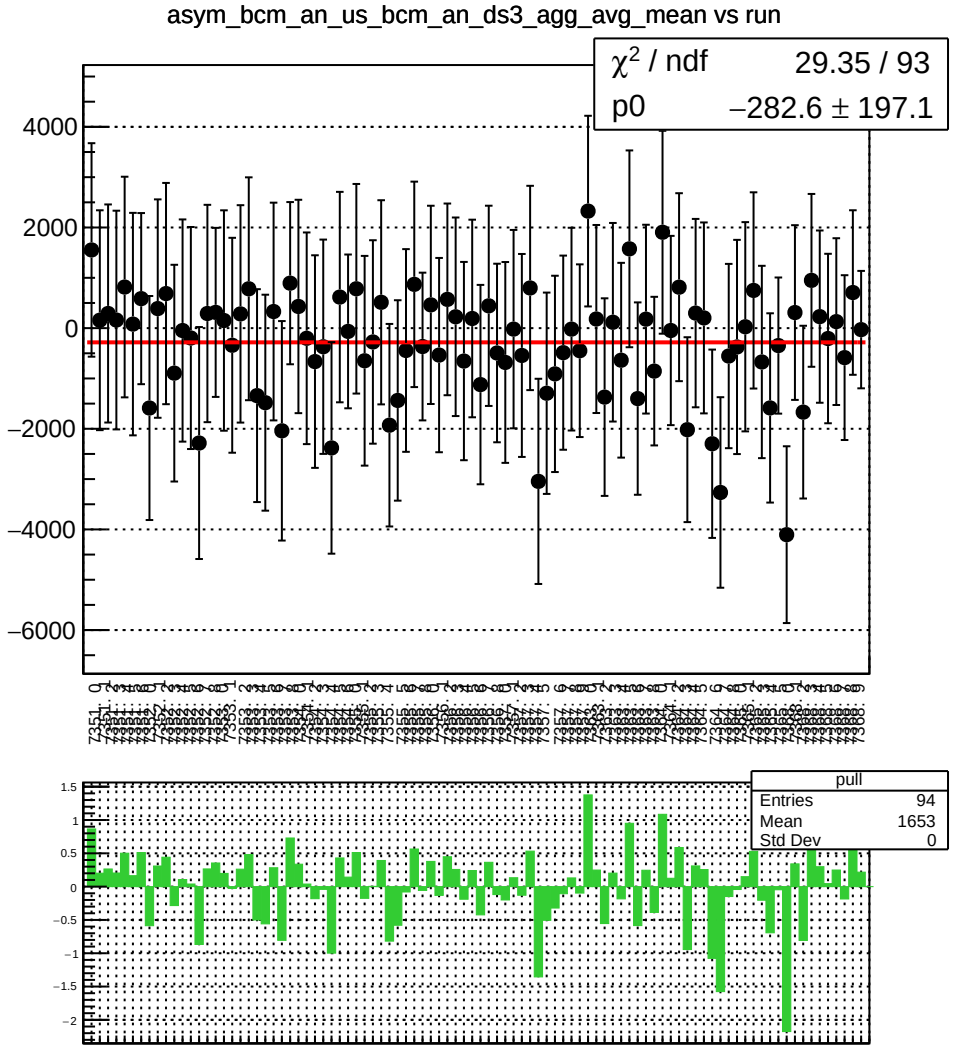

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1512 / 93
p0 16.97 ± 0.01259
18
17.5
17
16.5
16

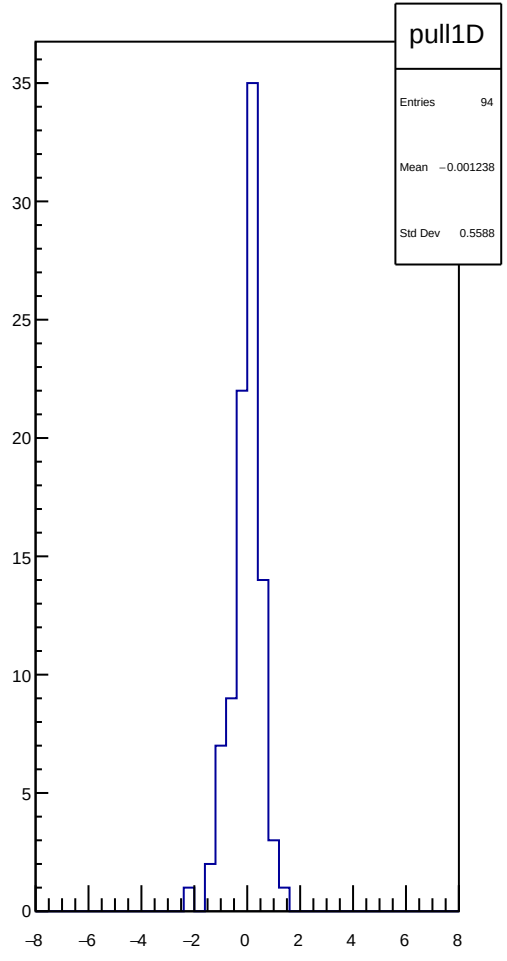

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 79.36 / 93
p0 −11.33 ± 23.23
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 94
Mean 113.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.02036
Std Dev 0.9186
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

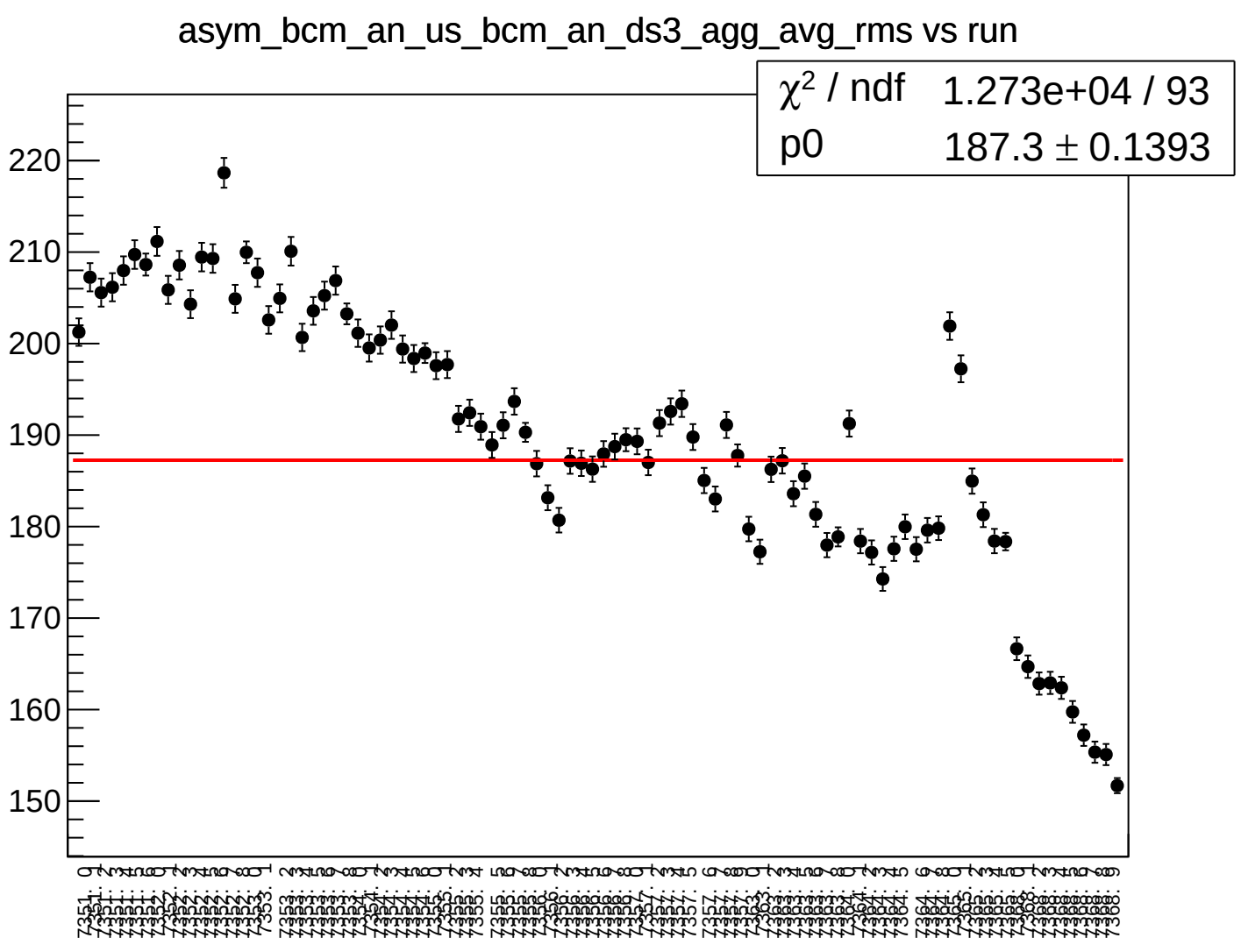

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 313.9 / 93
p0 22.15 ± 0.01643
23.4
23.2
23
22.8
22.6
22.4
22.2
22
21.8
21.6
21.4

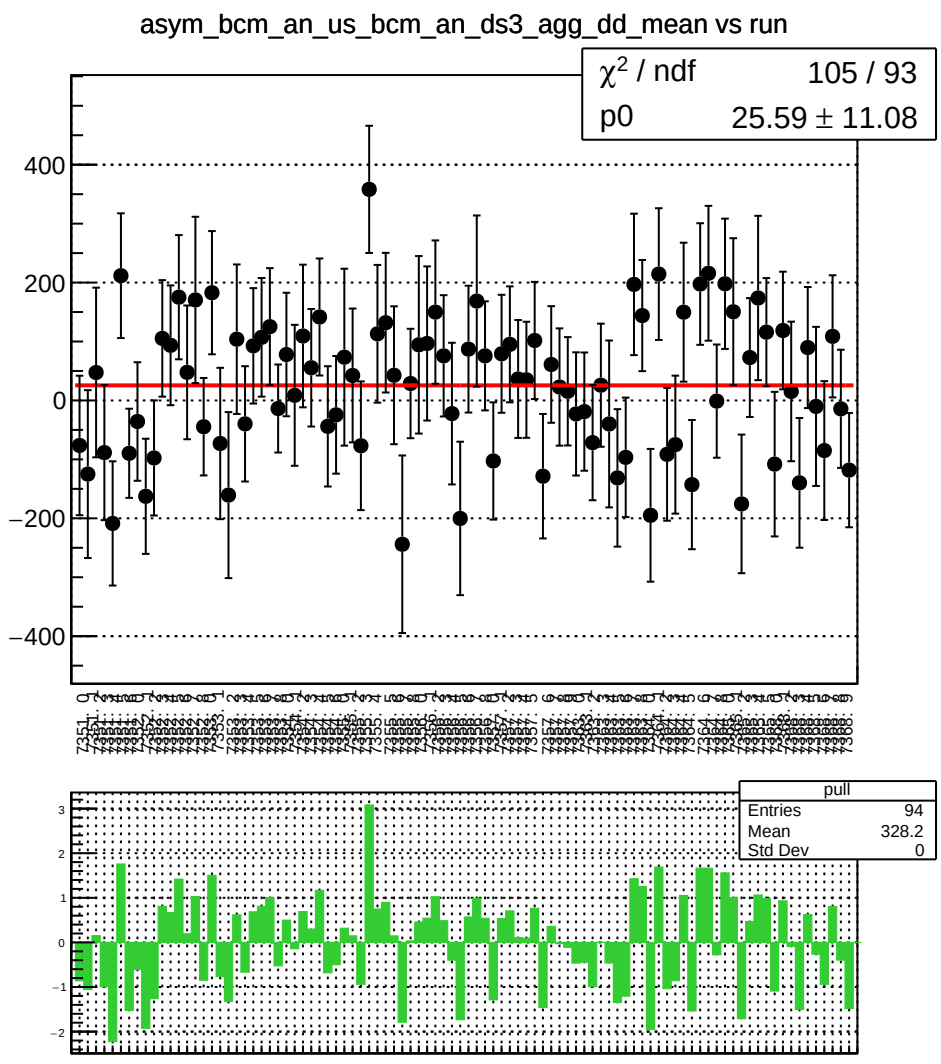

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 93.81 / 93
p0 32.05 ± 11.61
600
400
200
0
−200
−400
pull
Entries 94
Mean 420.2
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.004183
Std Dev 0.999
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

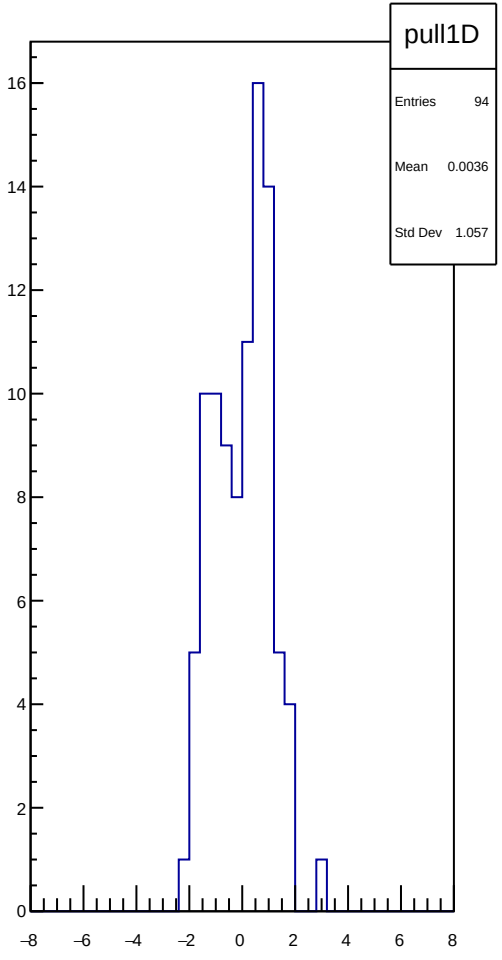

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2.176e+04 / 93
p0 11.01 ± 0.008211
15
14
13
12
11
10

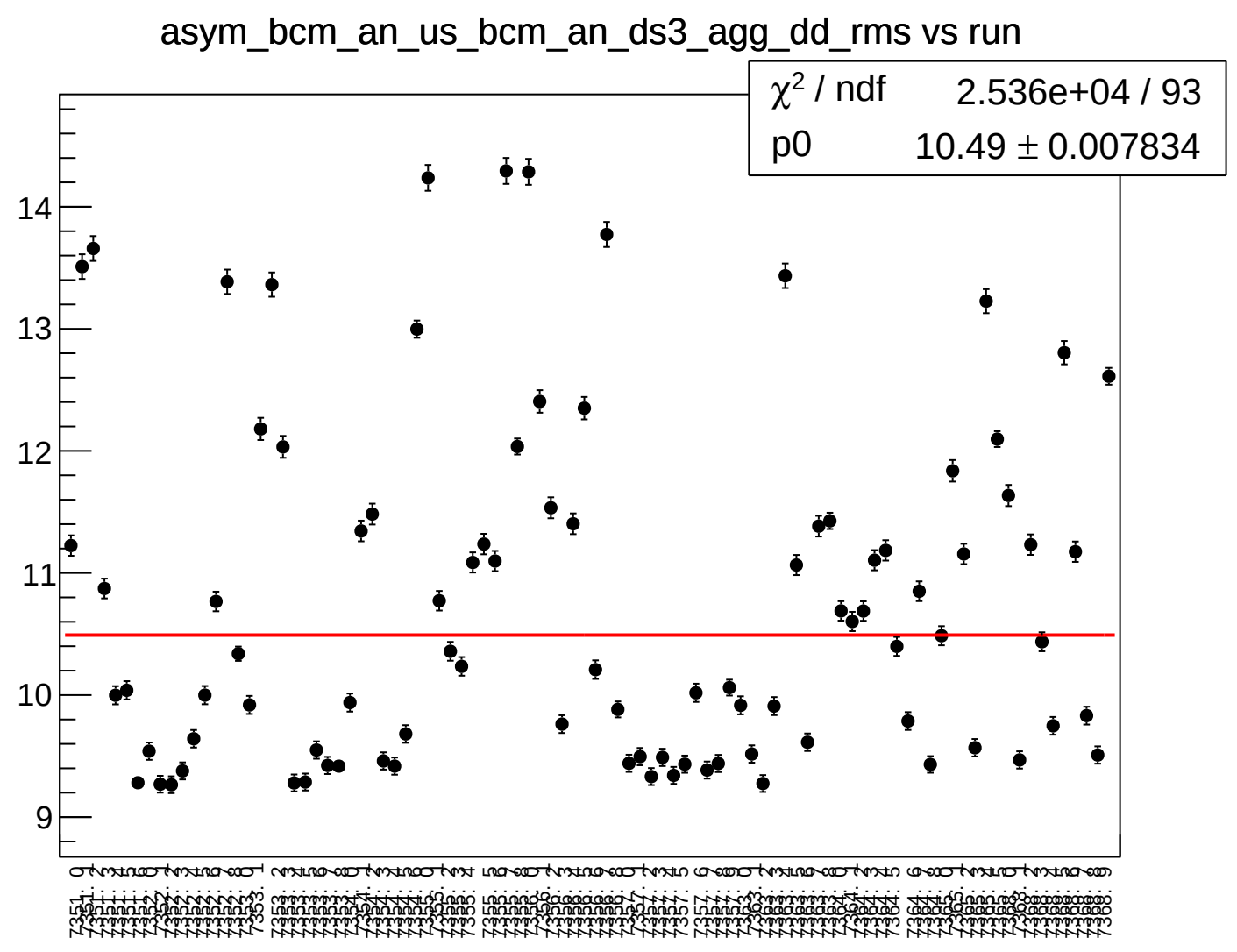

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 29.35 / 93
p0 −282.6 ± 197.1
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean 1653
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

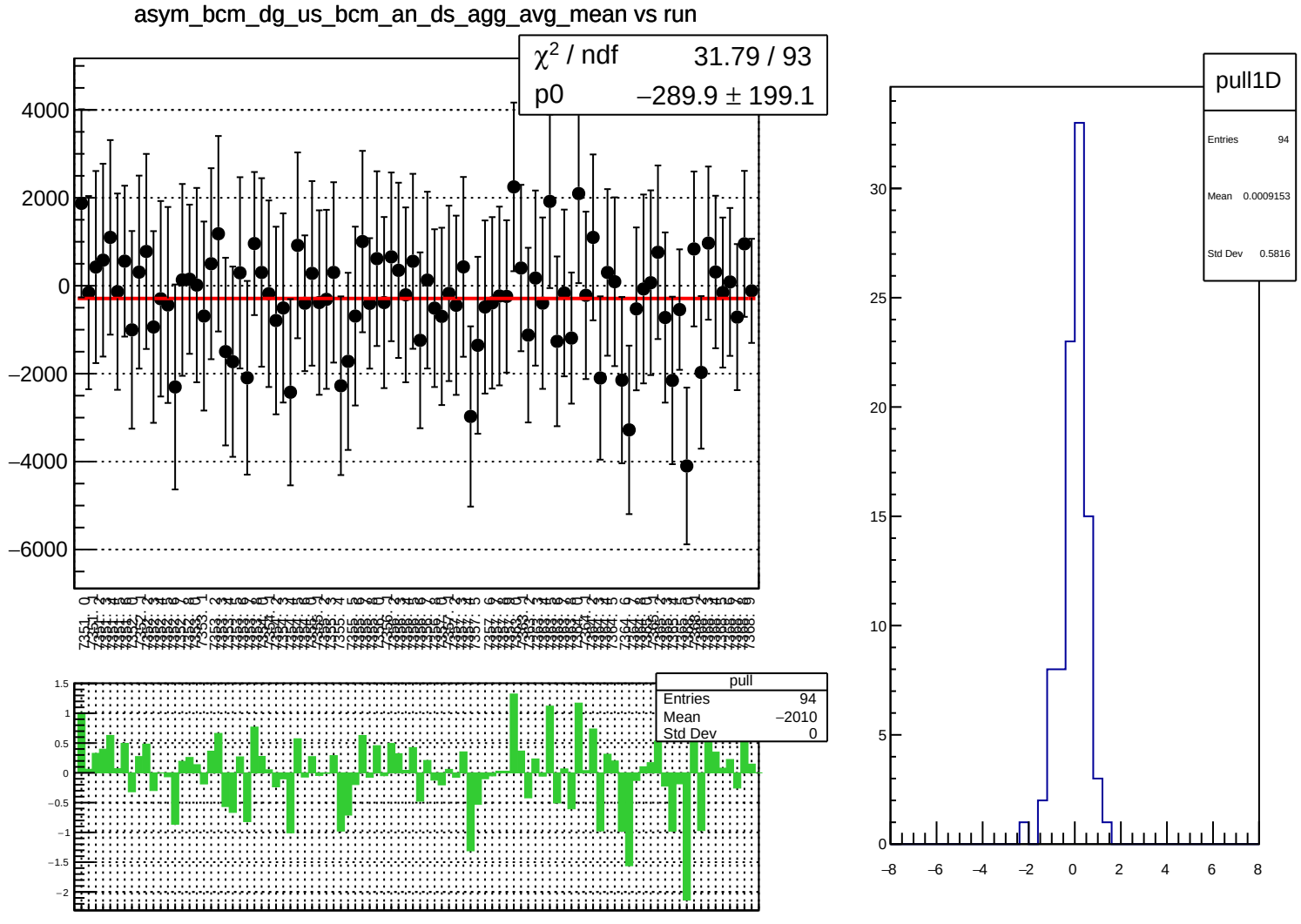

pull1D
Entries 94
Mean −0.001238
Std Dev 0.5588
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

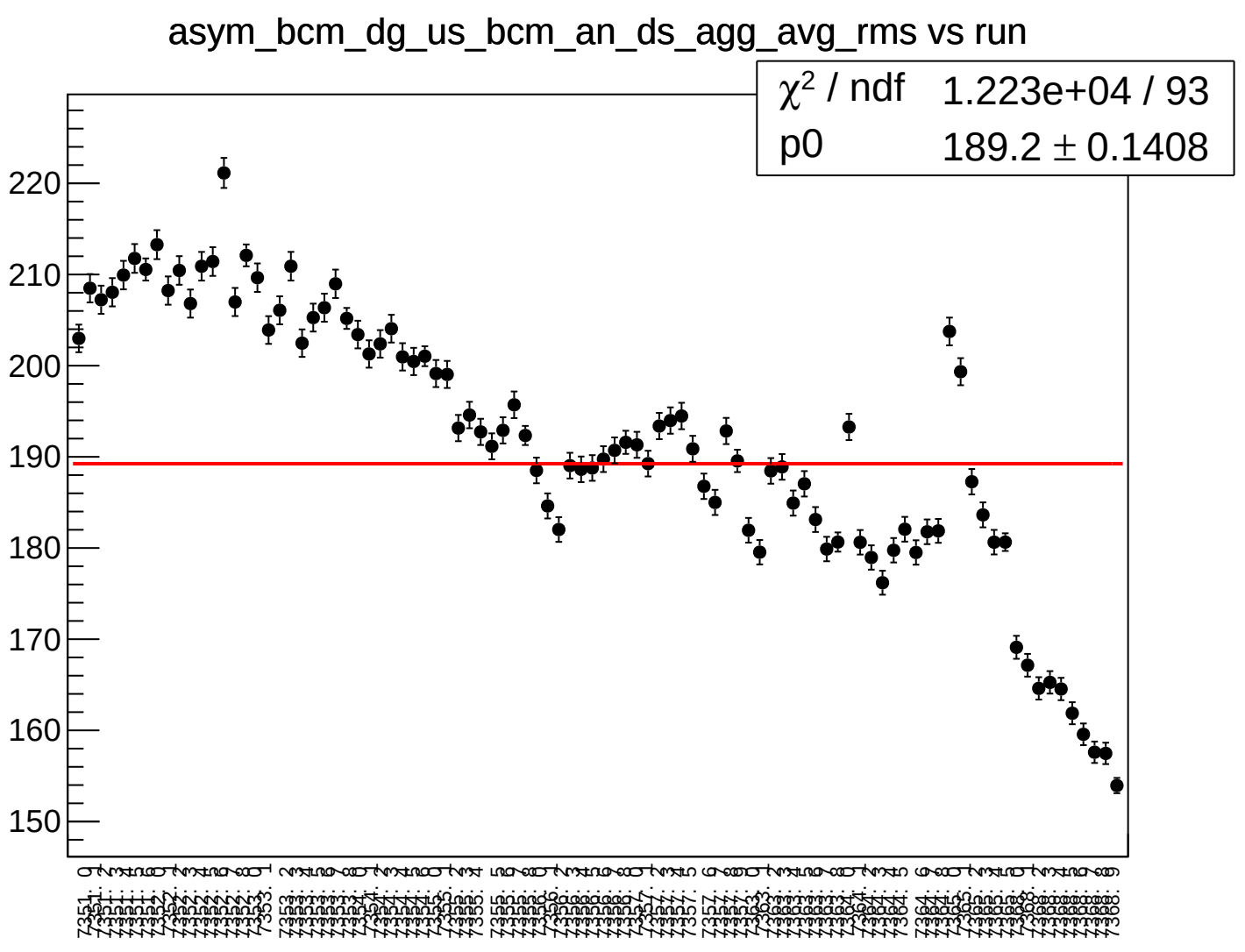

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 1.273e+04 / 93
p0 187.3 ± 0.1393
220
210
200
190
180
170
160
150

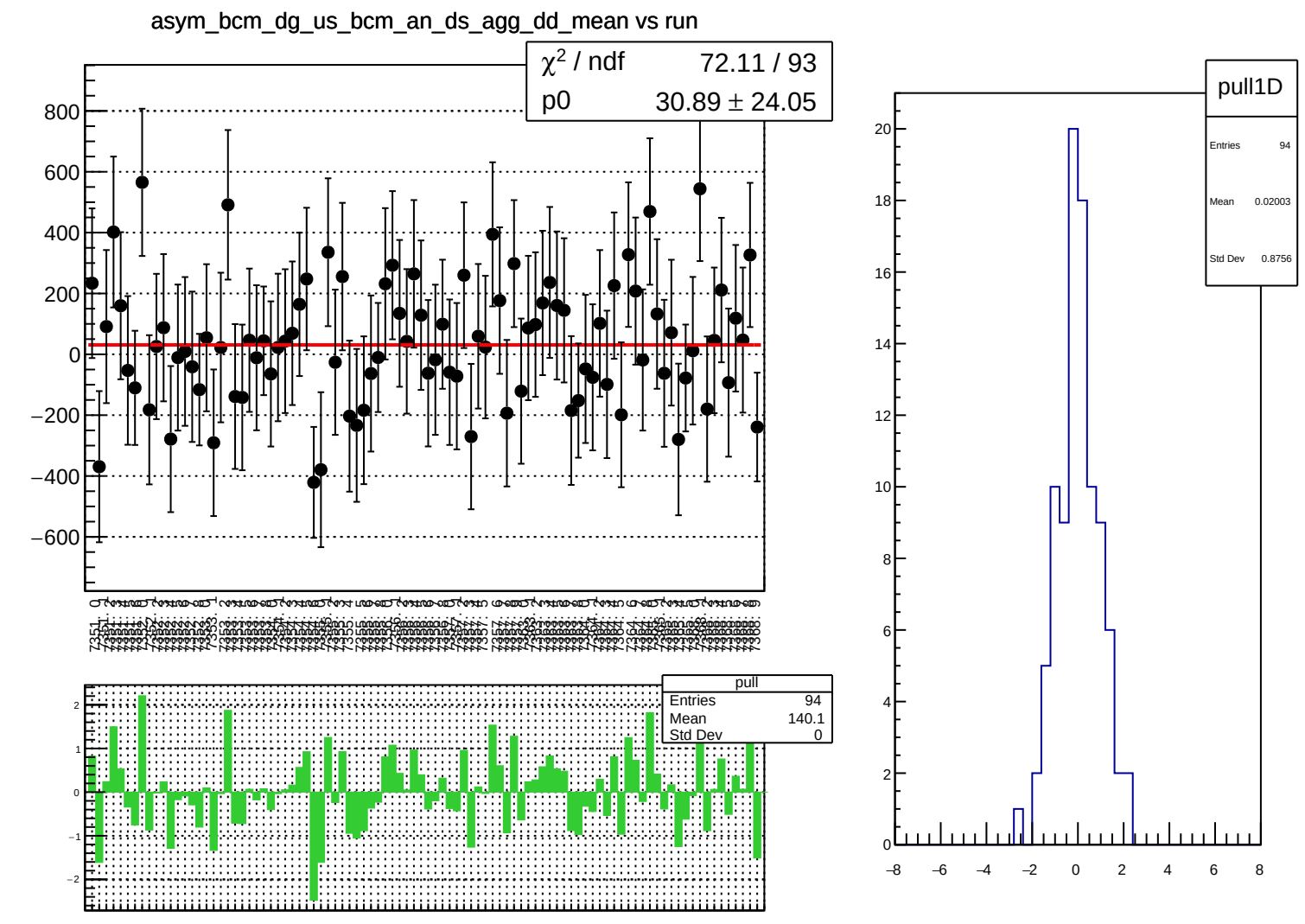

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 105 / 93
p0 25.59 ± 11.08
400
200
0
−200
−400
pull
Entries 94
Mean 328.2
Std Dev 0
3
2
1
0
−1
−2

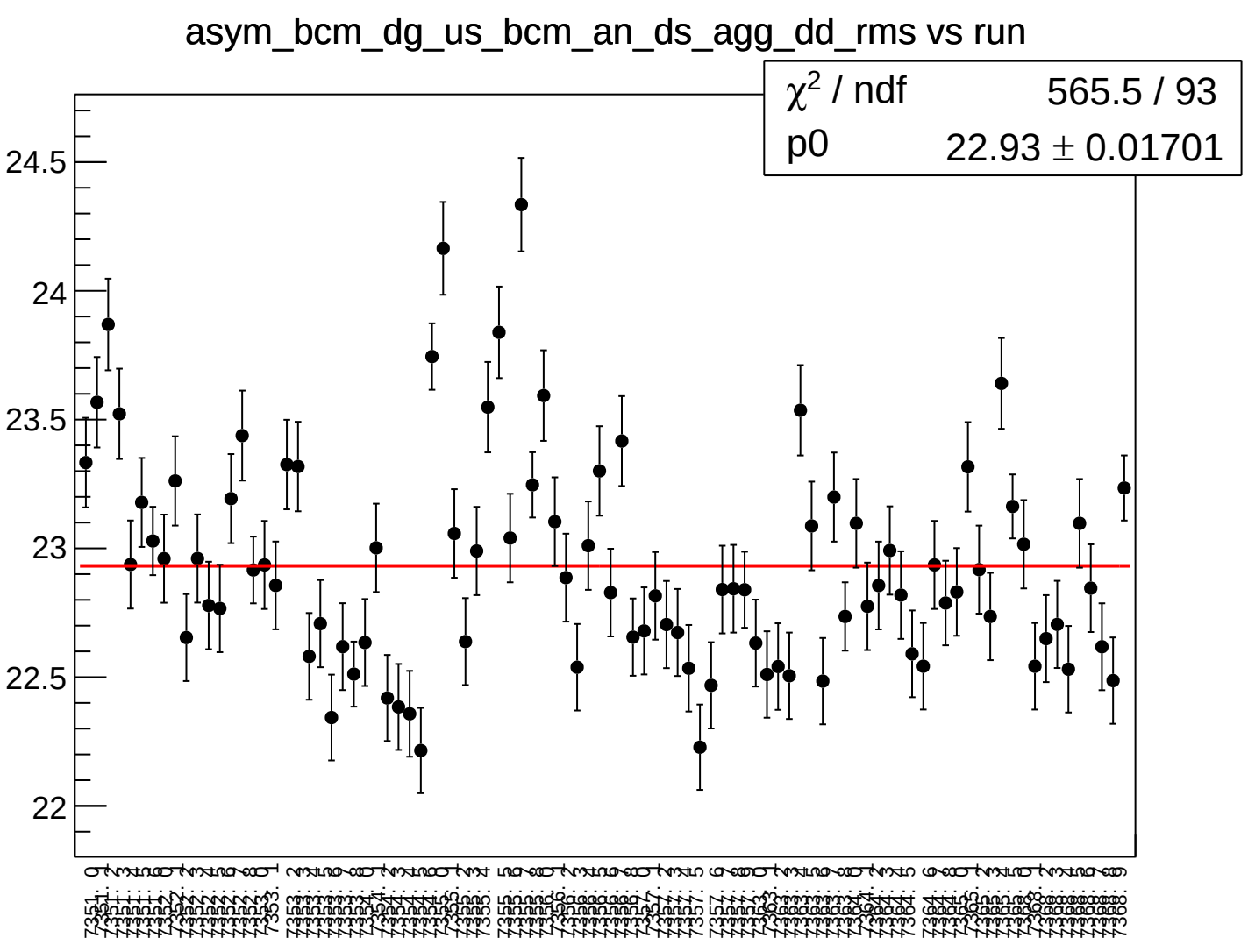

pull1D
Entries 94
Mean 0.0036
Std Dev 1.057
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

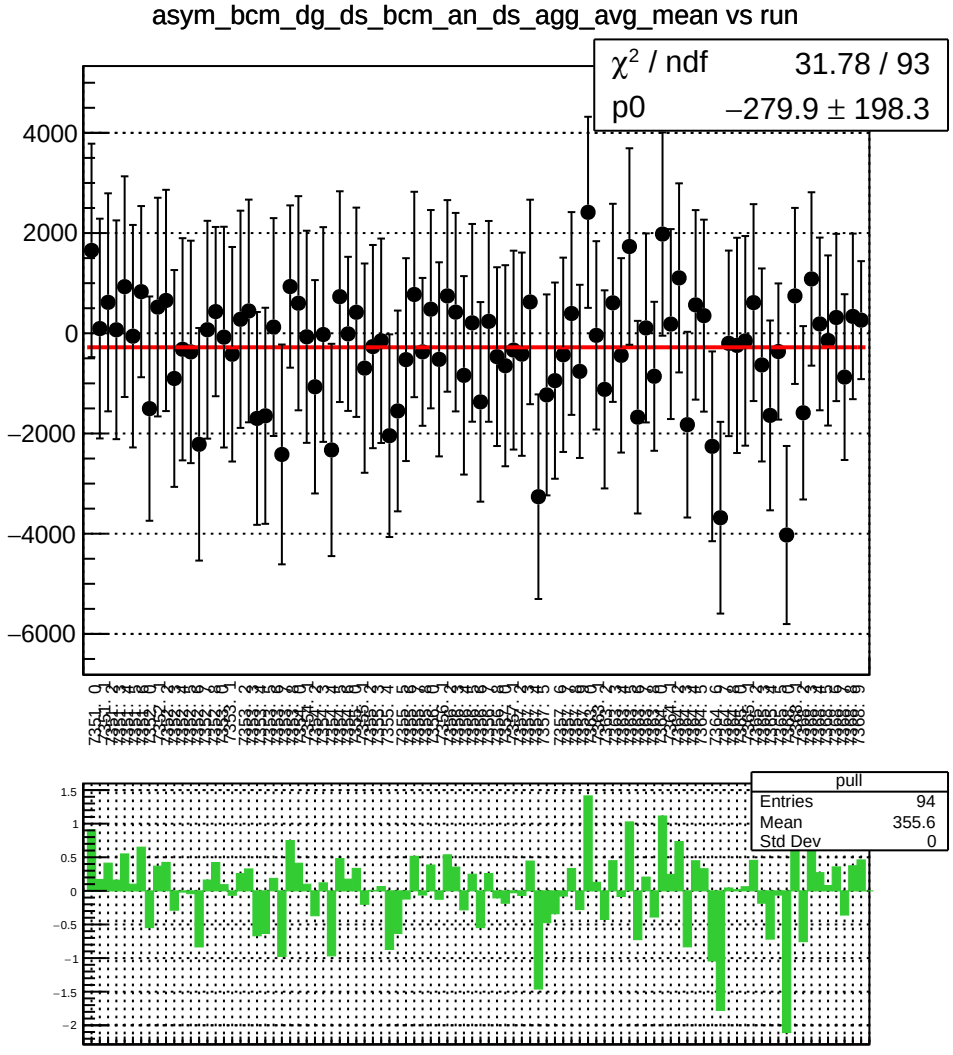

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 2.536e+04 / 93
p0 10.49 ± 0.007834
14
13
12
11
10
9

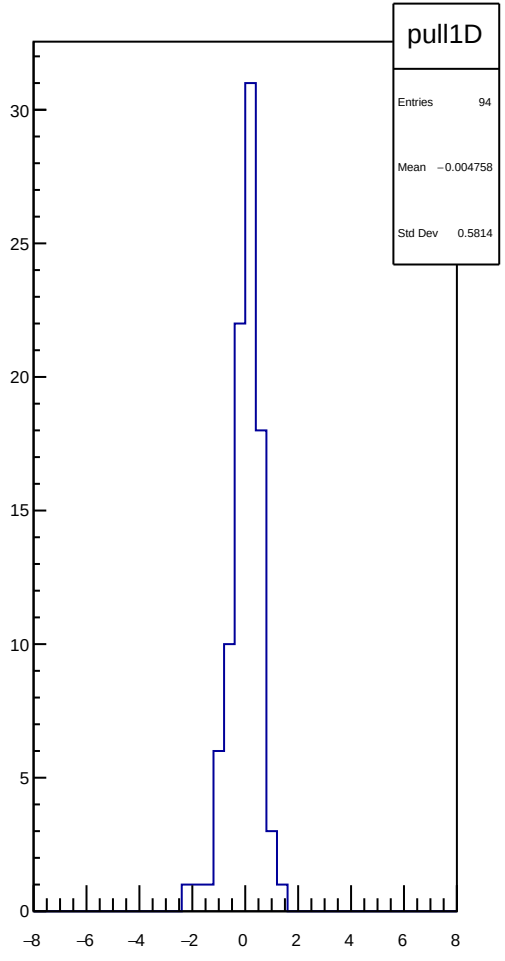

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 31.79 / 93
p0 −289.9 ± 199.1
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean −2010
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean 0.0009153
Std Dev 0.5816
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

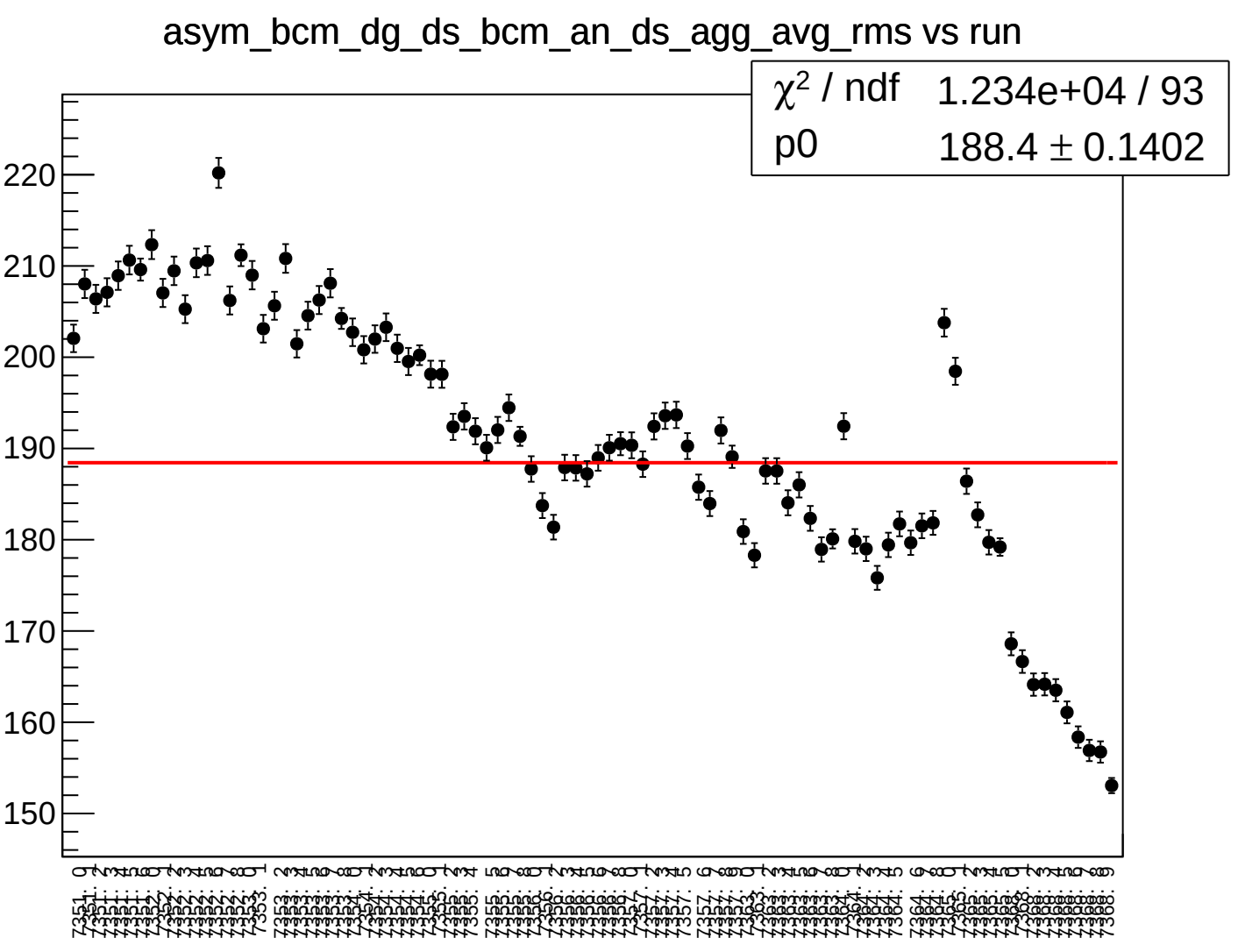

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.223e+04 / 93
p0 189.2 ± 0.1408
220
210
200
190
180
170
160
150

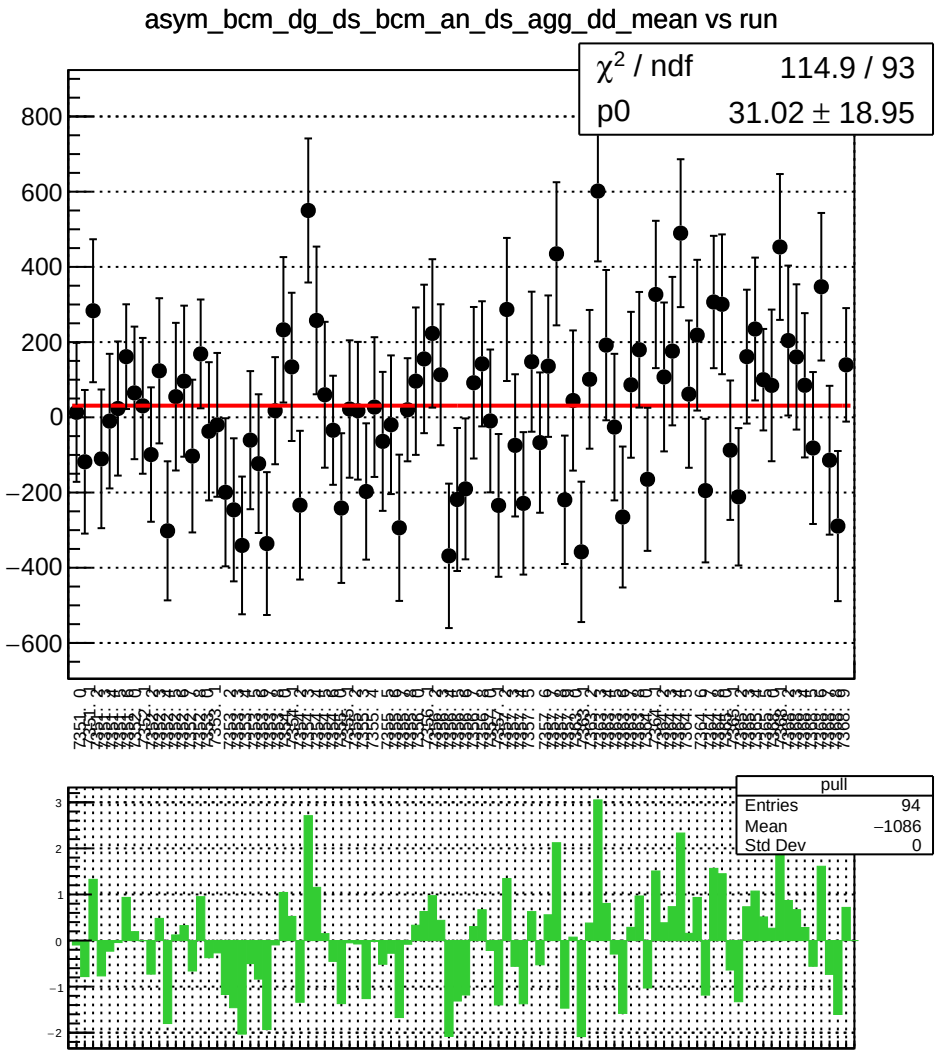

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 72.11 / 93
p0 30.89 ± 24.05
800
600
400
200
0
−200
−400
−600
pull
Entries 94
Mean 140.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.02003
Std Dev 0.8756
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

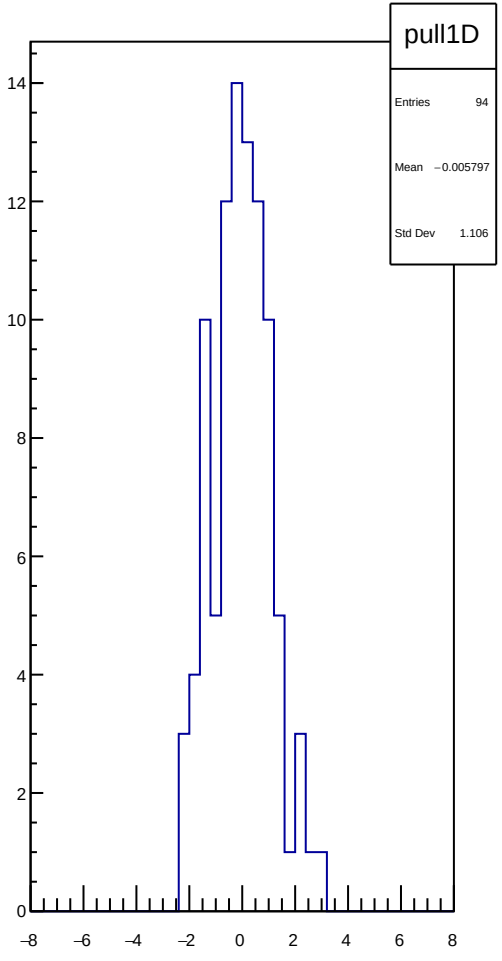

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 565.5 / 93
p0 22.93 ± 0.01701
24.5
24
23.5
23
22.5
22

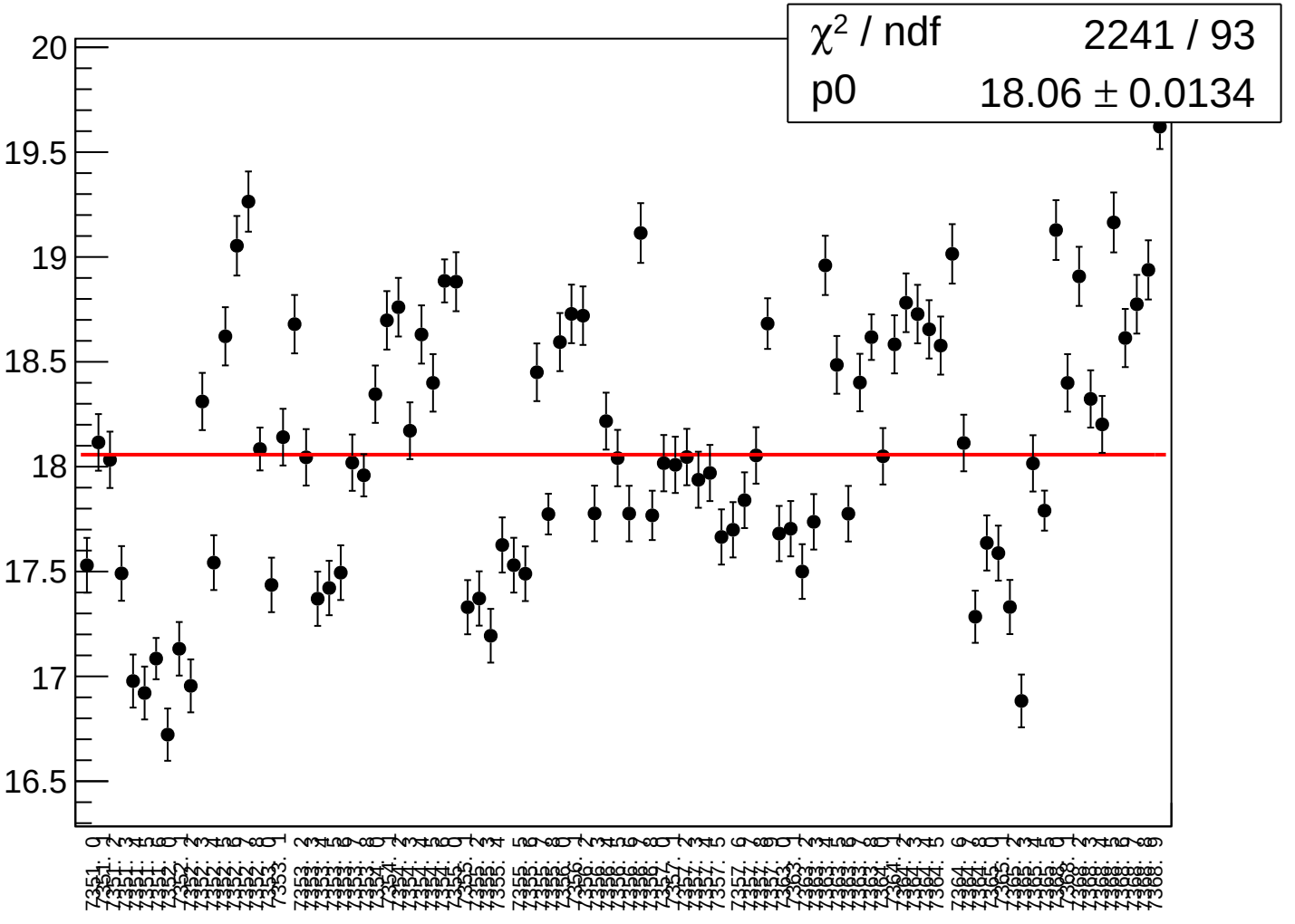

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 31.78 / 93
p0 −279.9 ± 198.3
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean 355.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

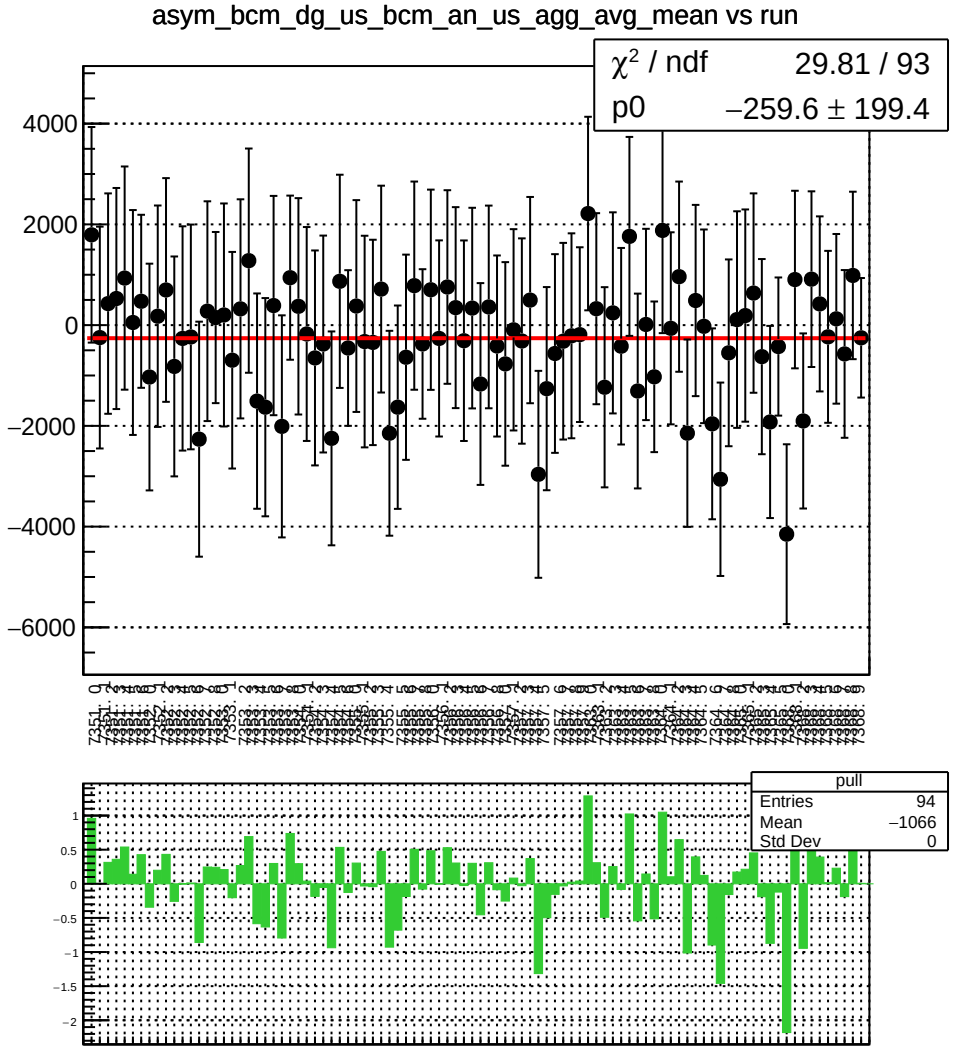

pull1D
Entries 94
Mean −0.004758
Std Dev 0.5814
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

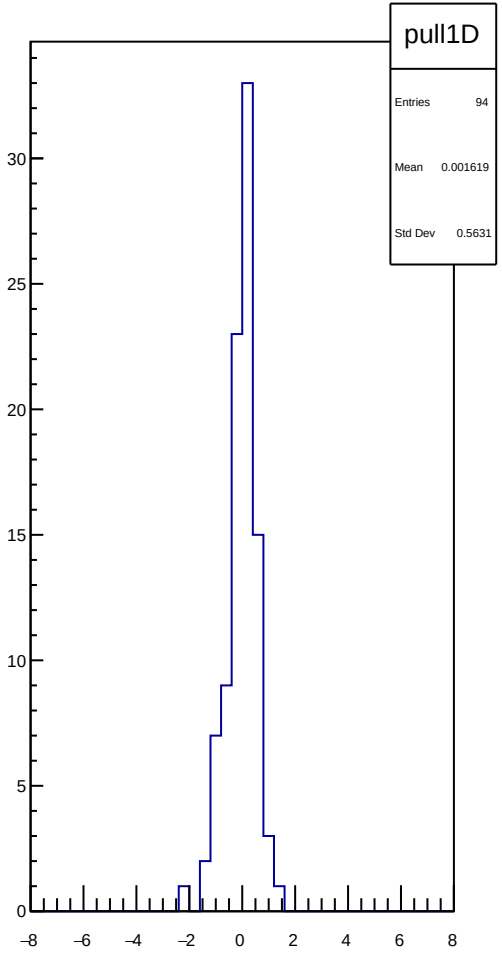

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.234e+04 / 93
p0 188.4 ± 0.1402
220
210
200
190
180
170
160
150

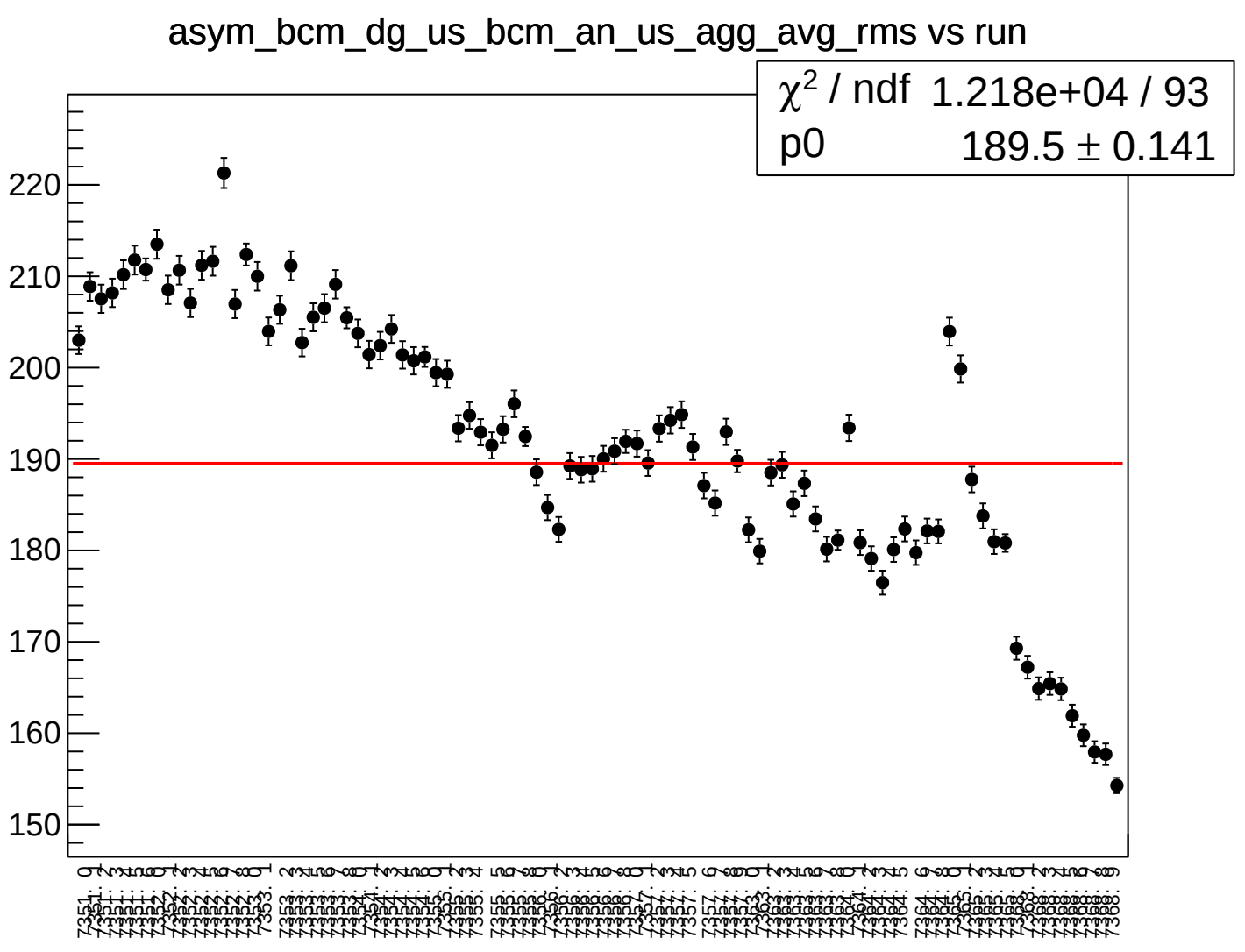

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 114.9 / 93
p0 31.02 ± 18.95
pull
Entries 94
Mean −1086
Std Dev 0

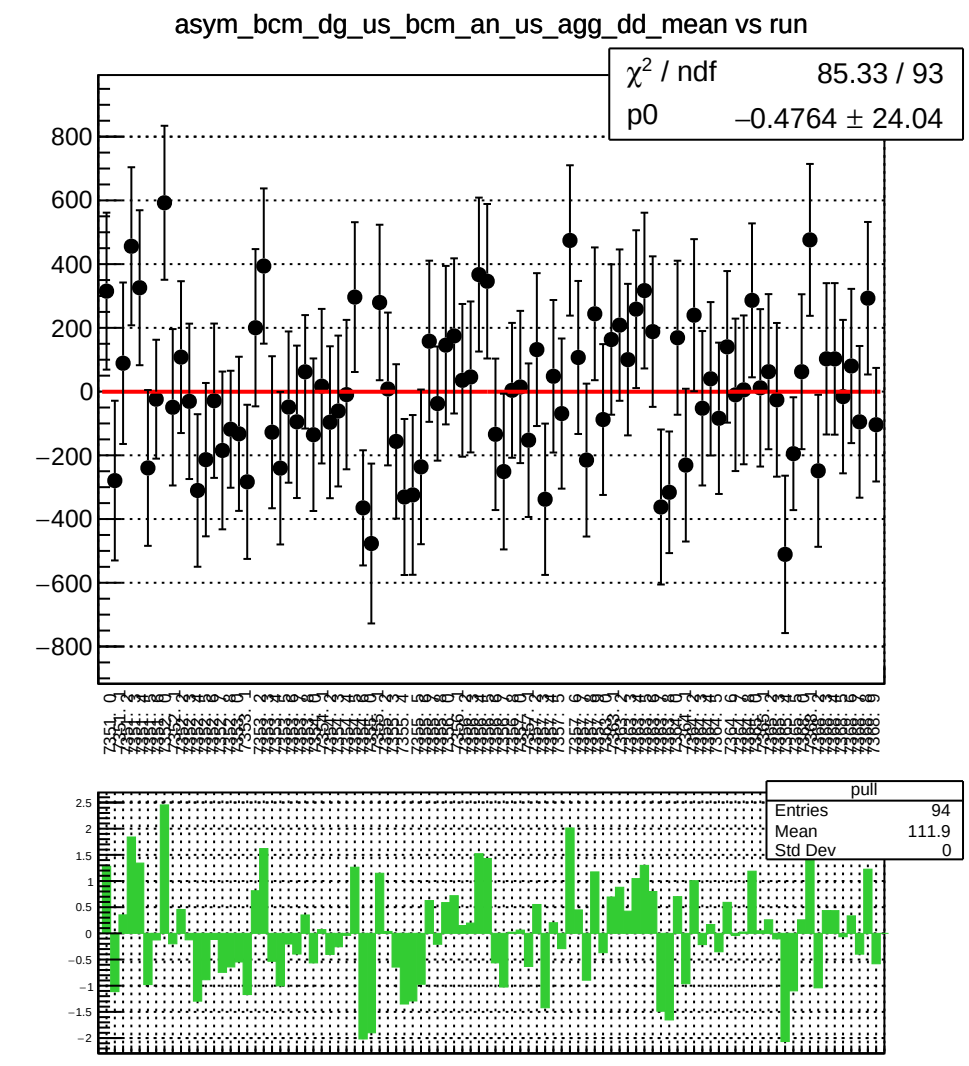

pull1D
Entries 94
Mean −0.005797
Std Dev 1.106

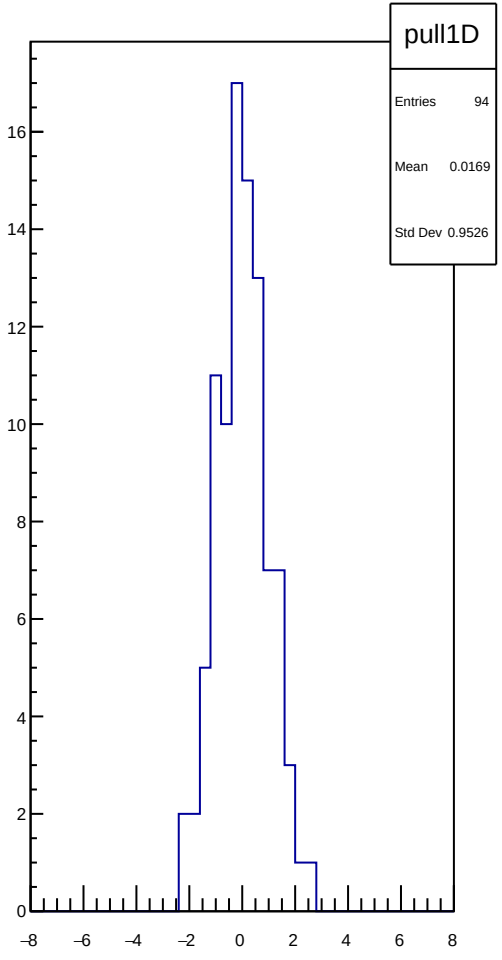

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2241 / 93
p0 18.06 ± 0.0134
20
19.5
19
18.5
18
17.5
17
16.5

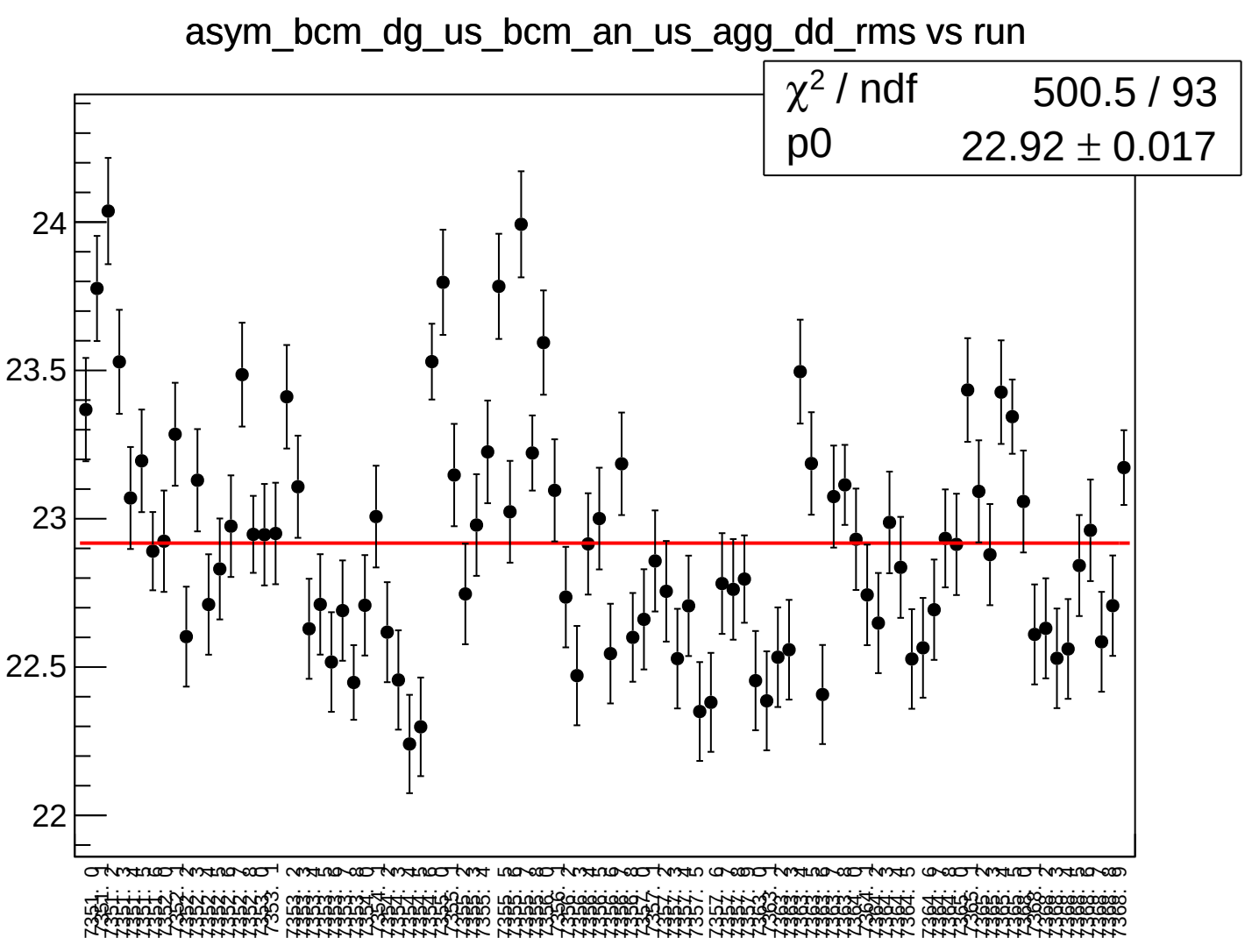

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 29.81 / 93
p0 −259.6 ± 199.4
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean −1066
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

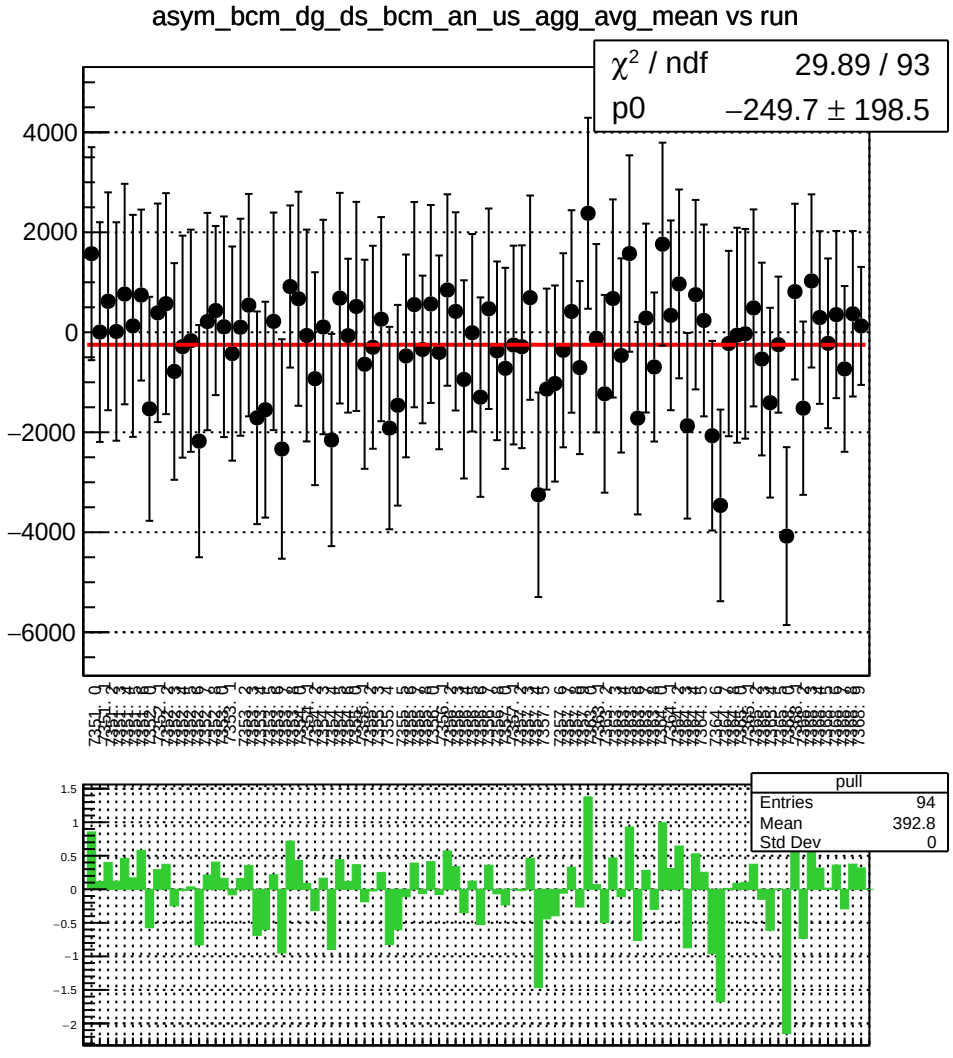

pull1D
Entries 94
Mean 0.001619
Std Dev 0.5631
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

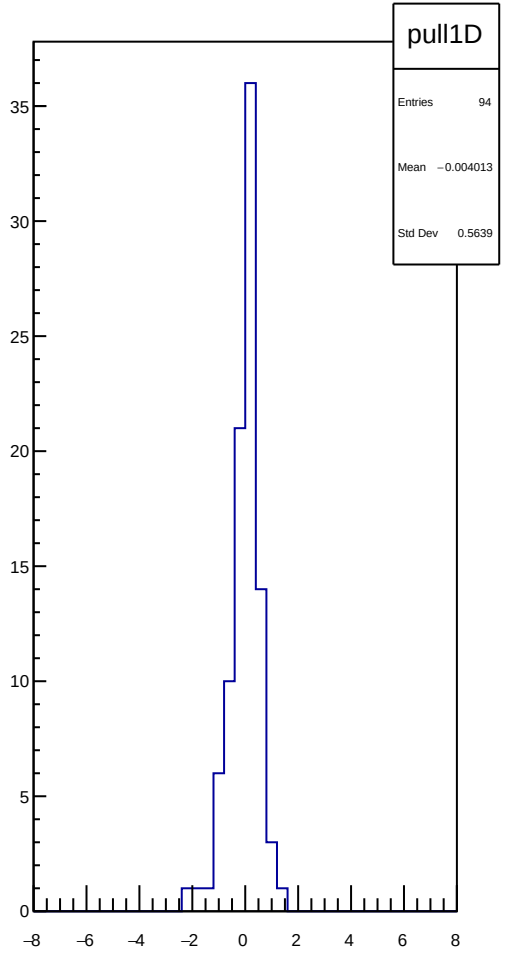

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1.218e+04 / 93
p0 189.5 ± 0.141
220
210
200
190
180
170
160
150

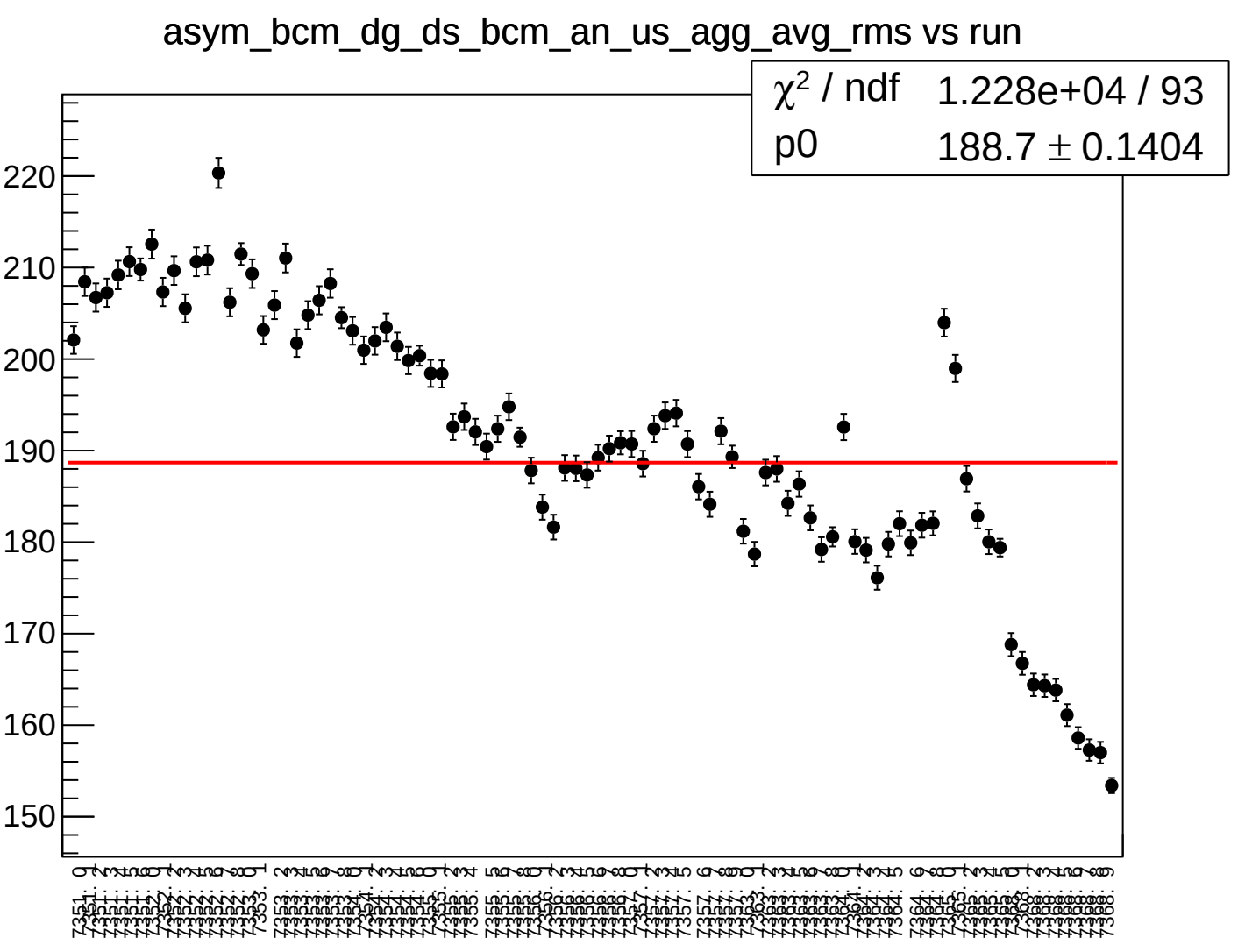

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 85.33 / 93
p0 −0.4764 ± 24.04
pull
Entries 94
Mean 111.9
Std Dev 0

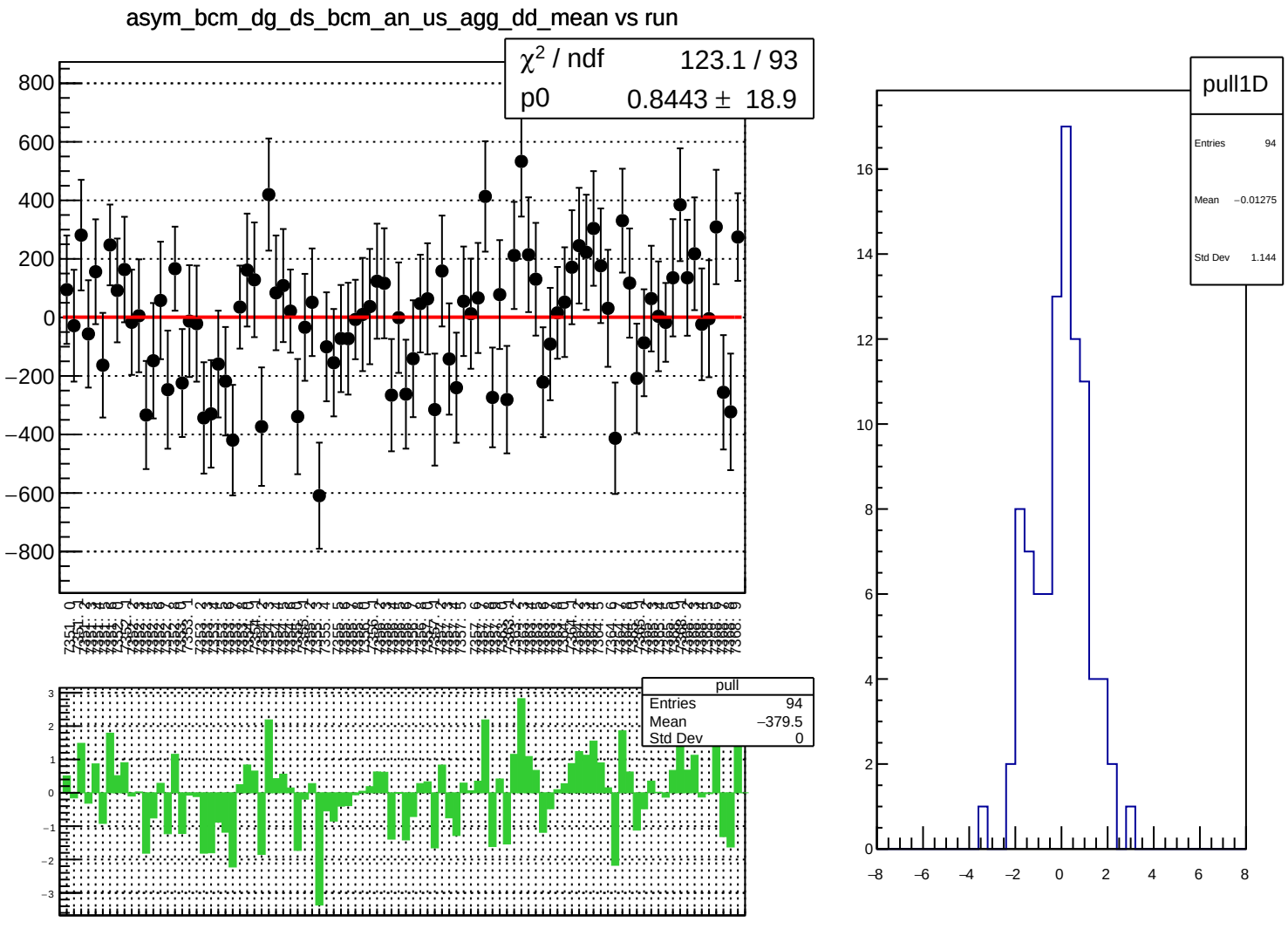

pull1D
Entries 94
Mean 0.0169
Std Dev 0.9526

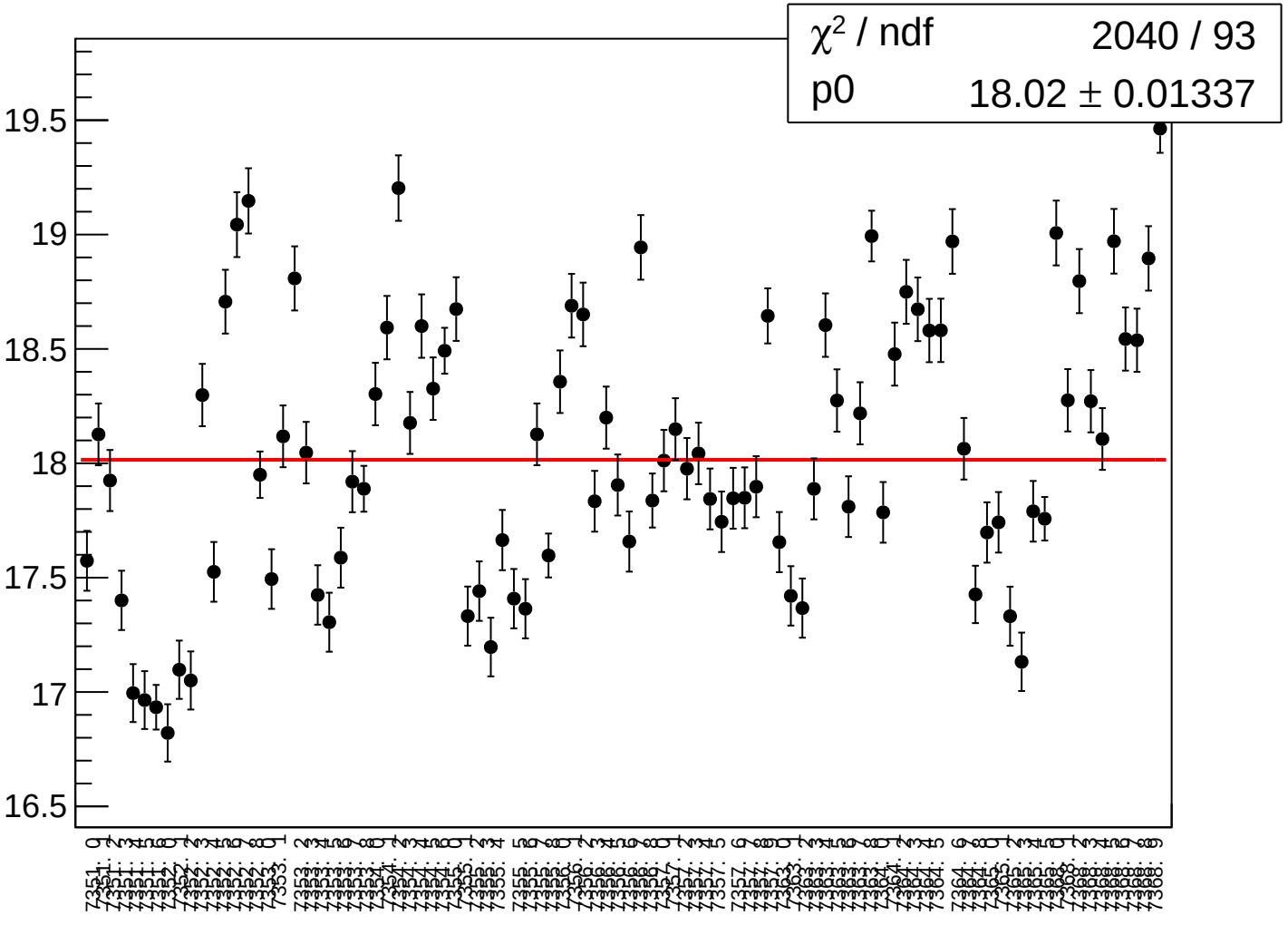

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 500.5 / 93
p0 22.92 ± 0.017
24
23.5
23
22.5
22

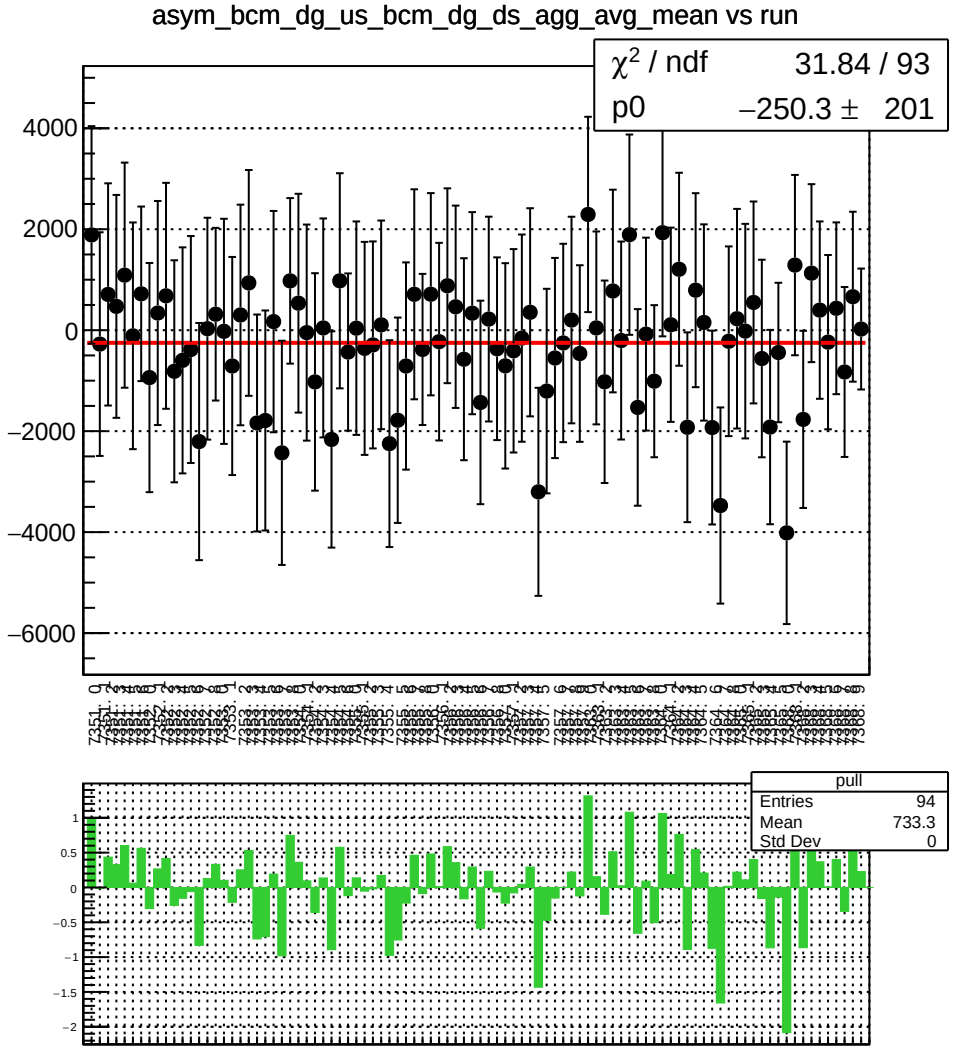

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 29.89 / 93
p0 −249.7 ± 198.5
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean 392.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

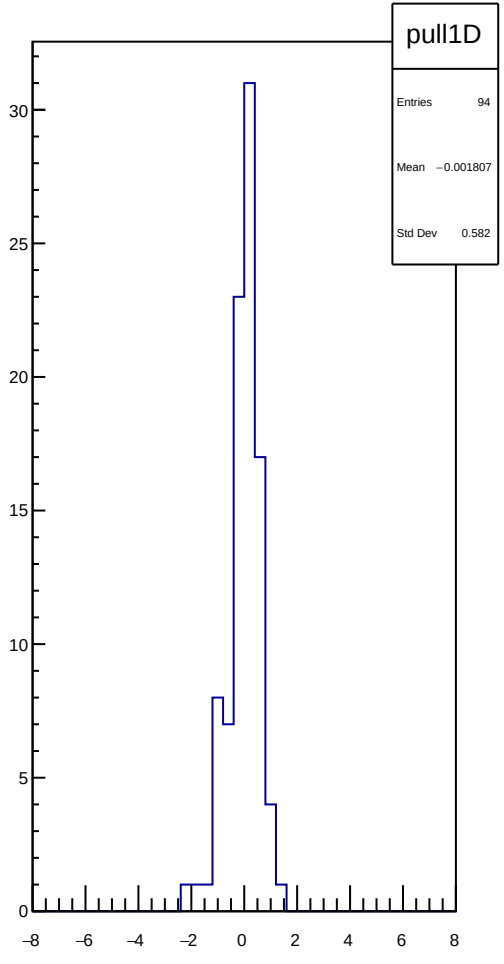

pull1D
Entries 94
Mean −0.004013
Std Dev 0.5639
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

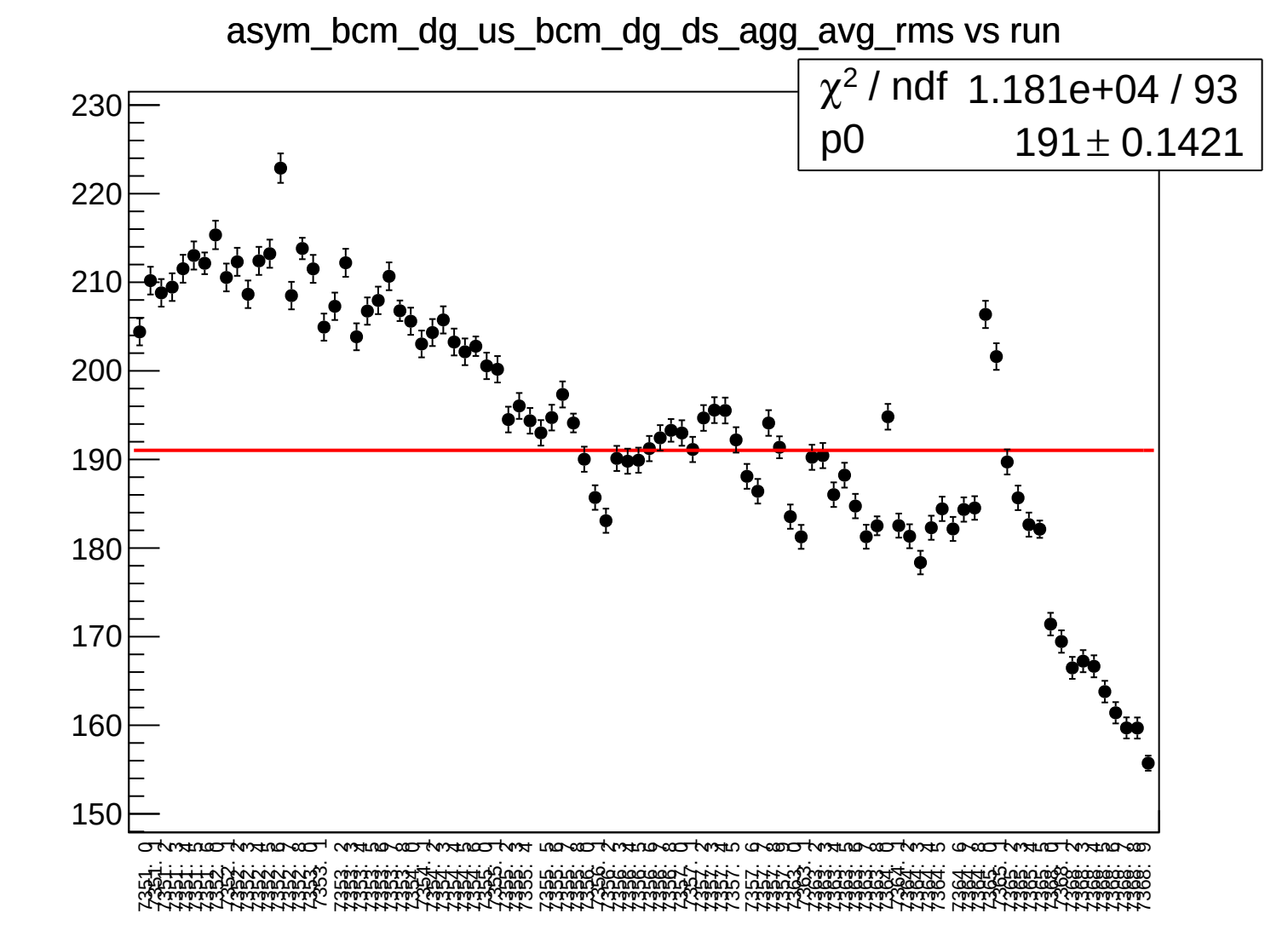

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1.228e+04 / 93
p0 188.7 ± 0.1404
220
210
200
190
180
170
160
150

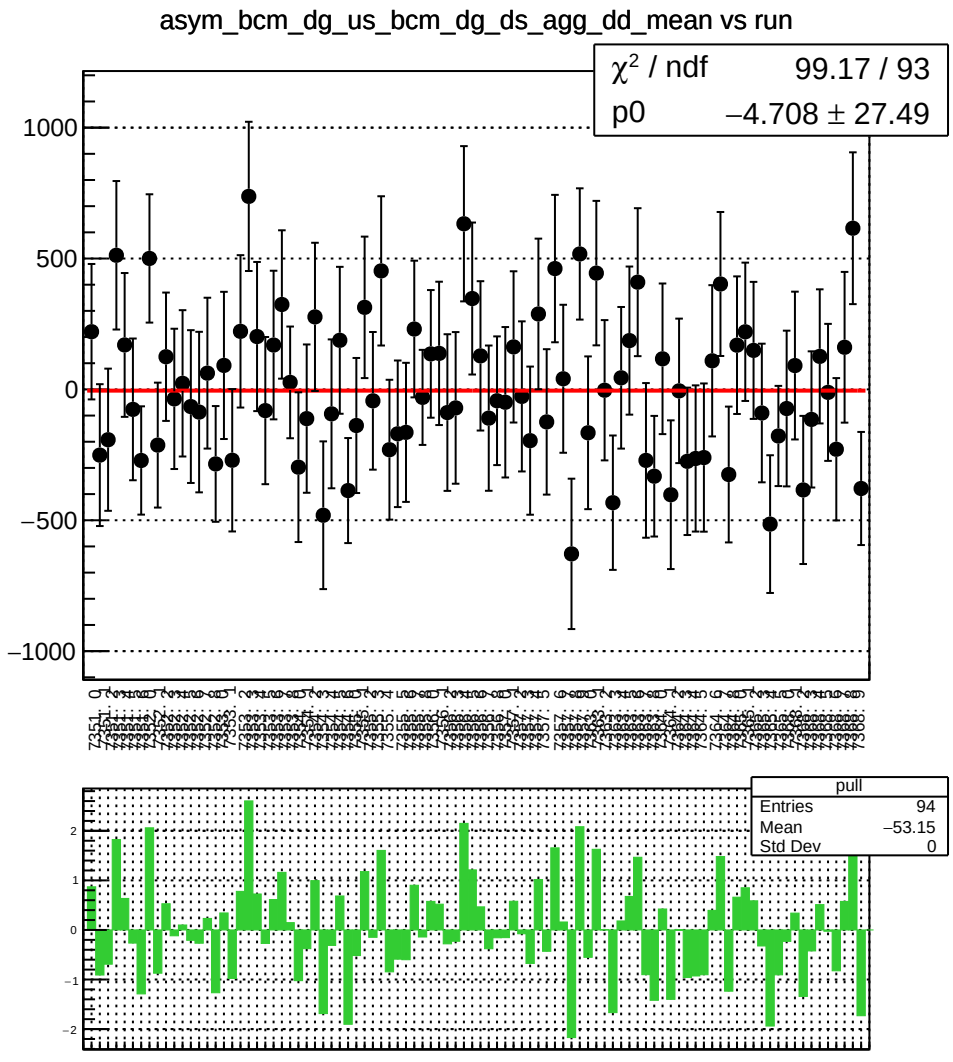

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 123.1 / 93
p0 0.8443 ± 18.9
pull
Entries 94
Mean −379.5
Std Dev 0
pull1D
Entries 94
Mean −0.01275
Std Dev 1.144

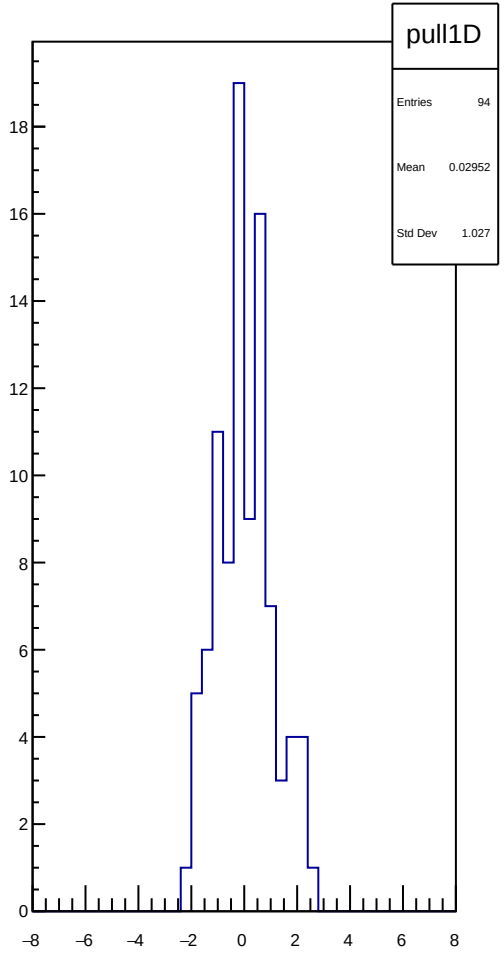

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2040 / 93
p0 18.02 ± 0.01337
19.5
19
18.5
18
17.5
17
16.5

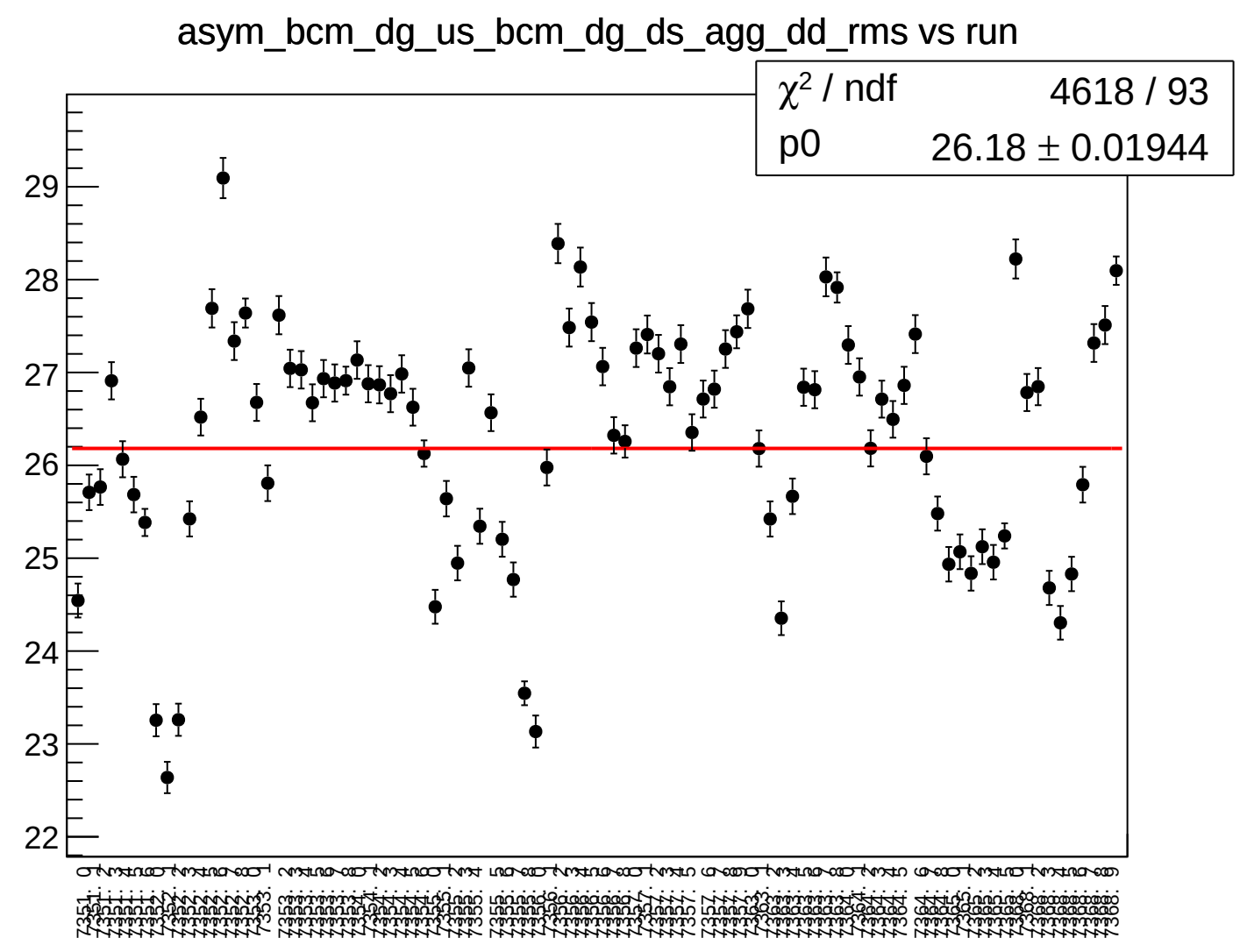

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 31.84 / 93
p0 −250.3 ± 201
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean 733.3
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

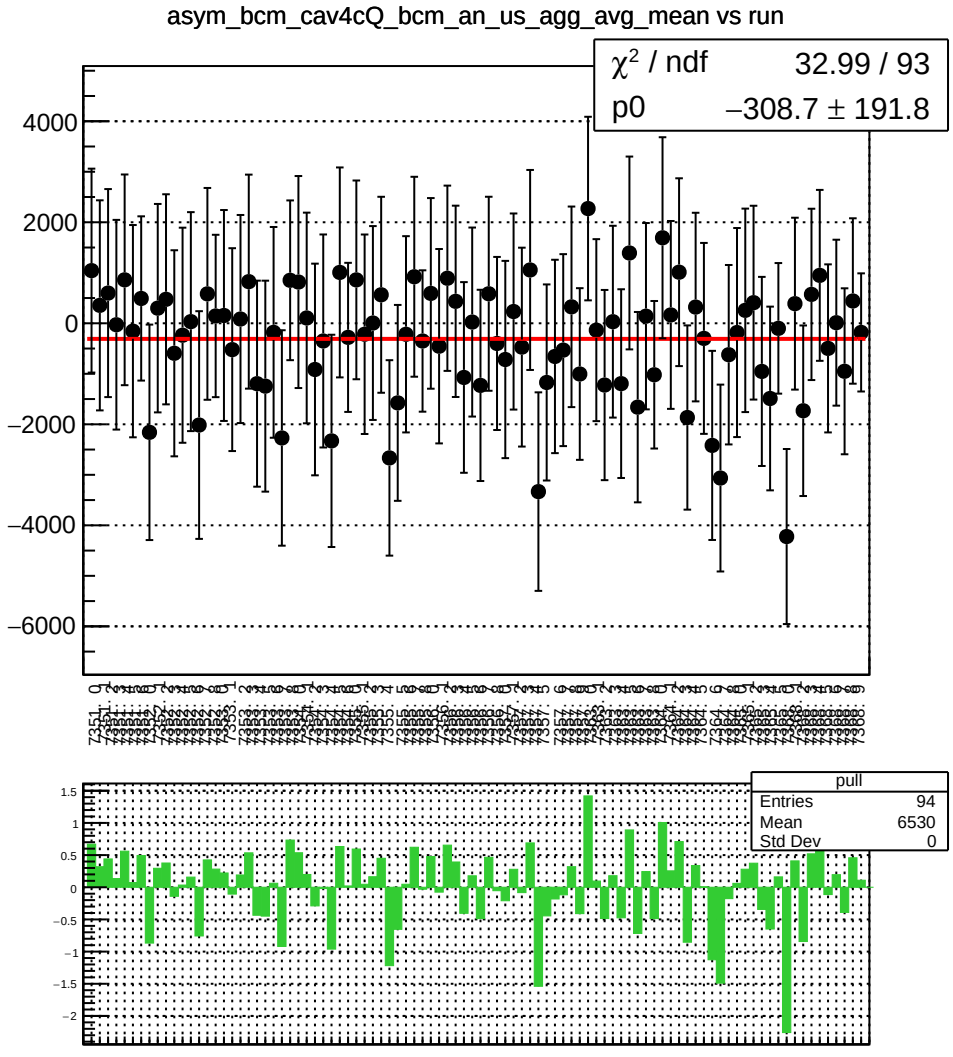

pull1D
Entries 94
Mean −0.001807
Std Dev 0.582
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

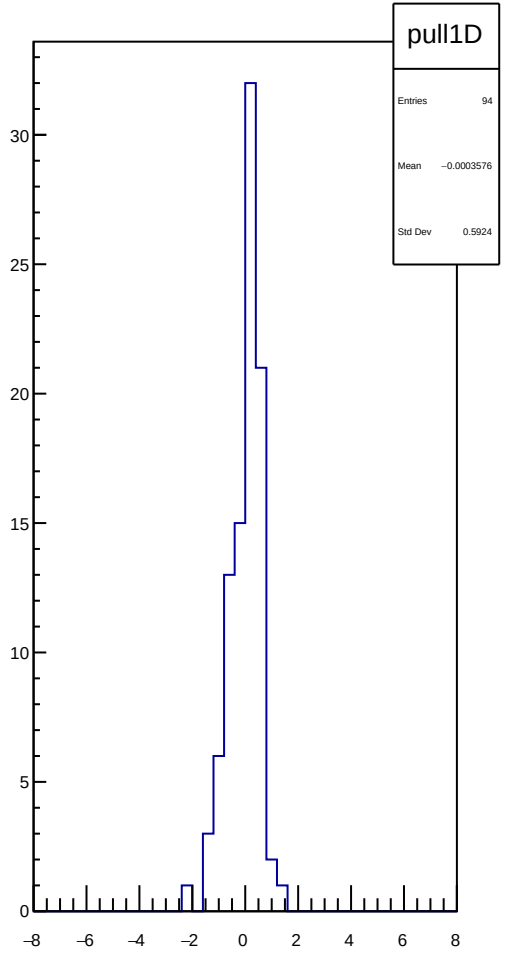

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 1.181e+04 / 93
p0 191 ± 0.1421
230
220
210
200
190
180
170
160
150

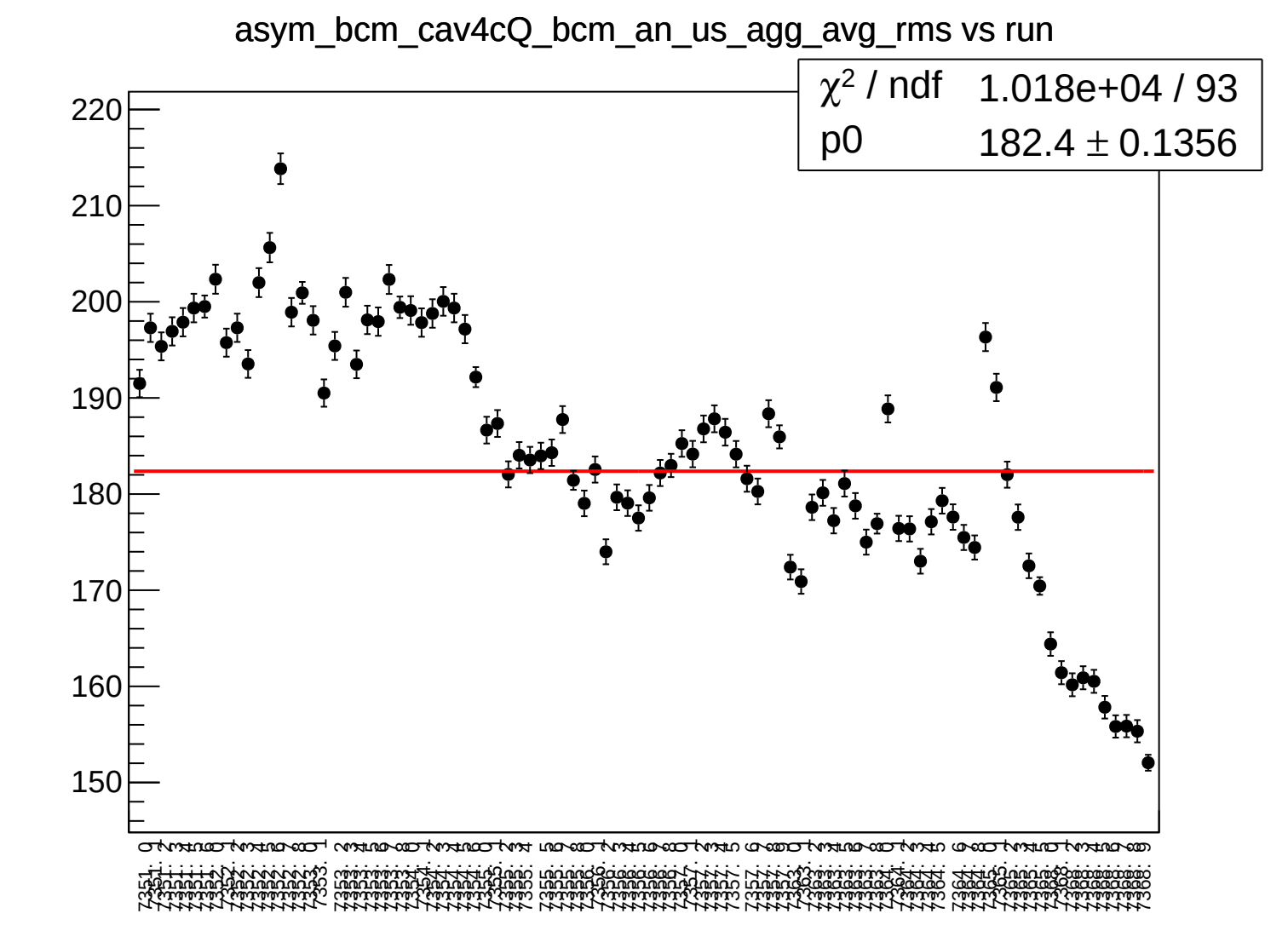

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 99.17 / 93
p0 −4.708 ± 27.49
1000
500
0
−500
−1000
pull
Entries 94
Mean −53.15
Std Dev 0
2
1
0
−1
−2

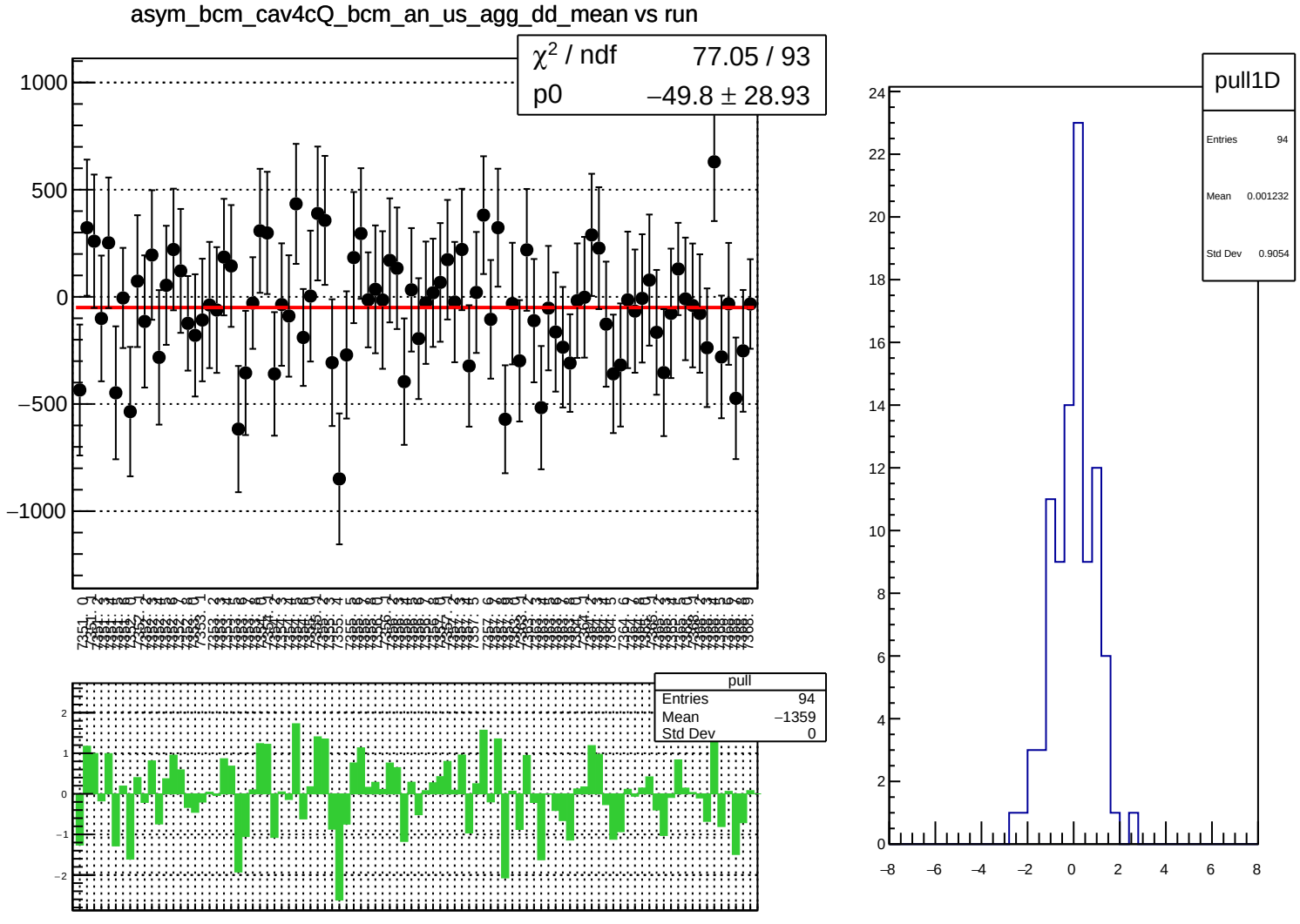

pull1D
Entries 94
Mean 0.02952
Std Dev 1.027
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

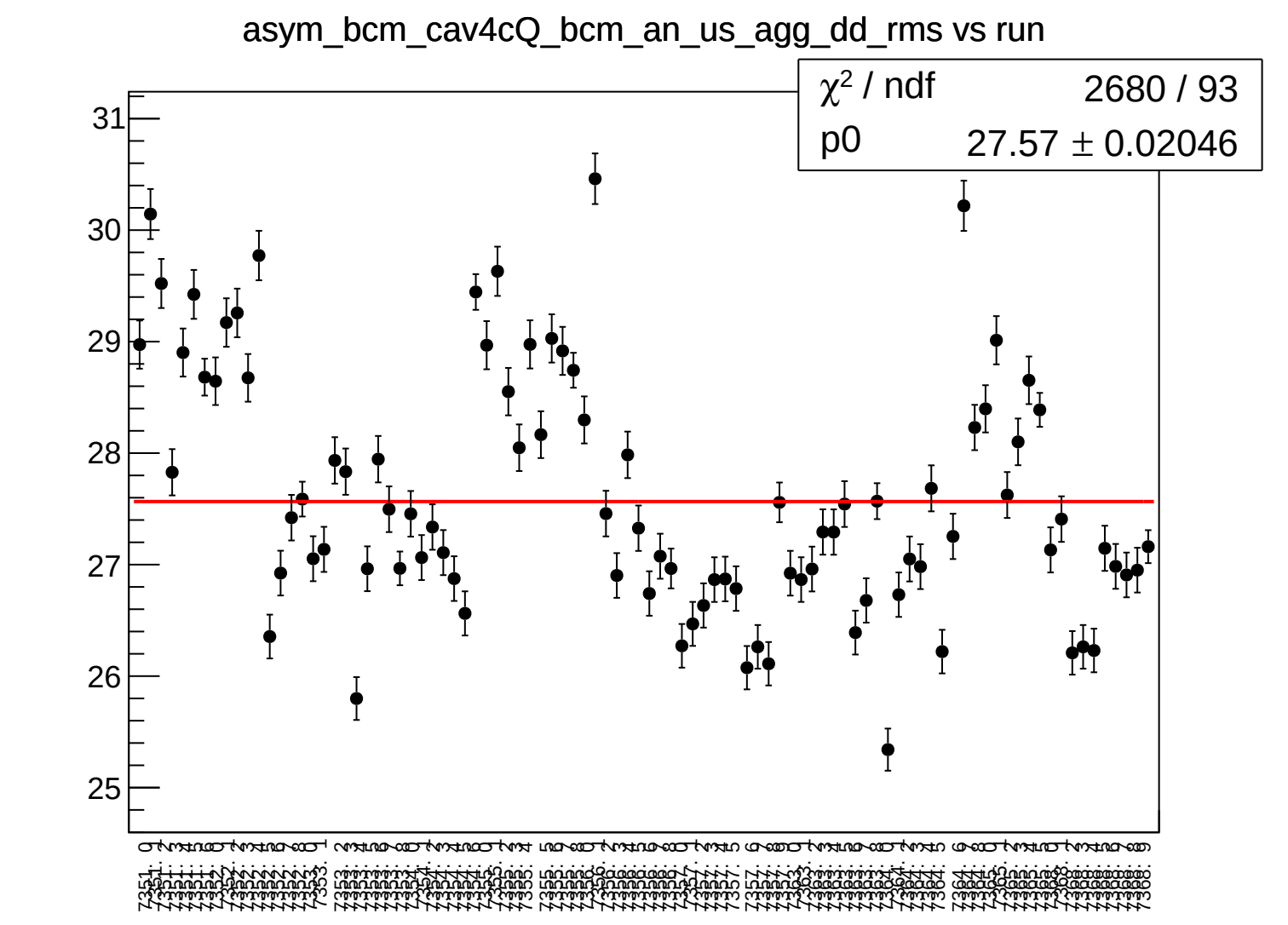

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 4618 / 93
p0 26.18 ± 0.01944
29
28
27
26
25
24
23
22

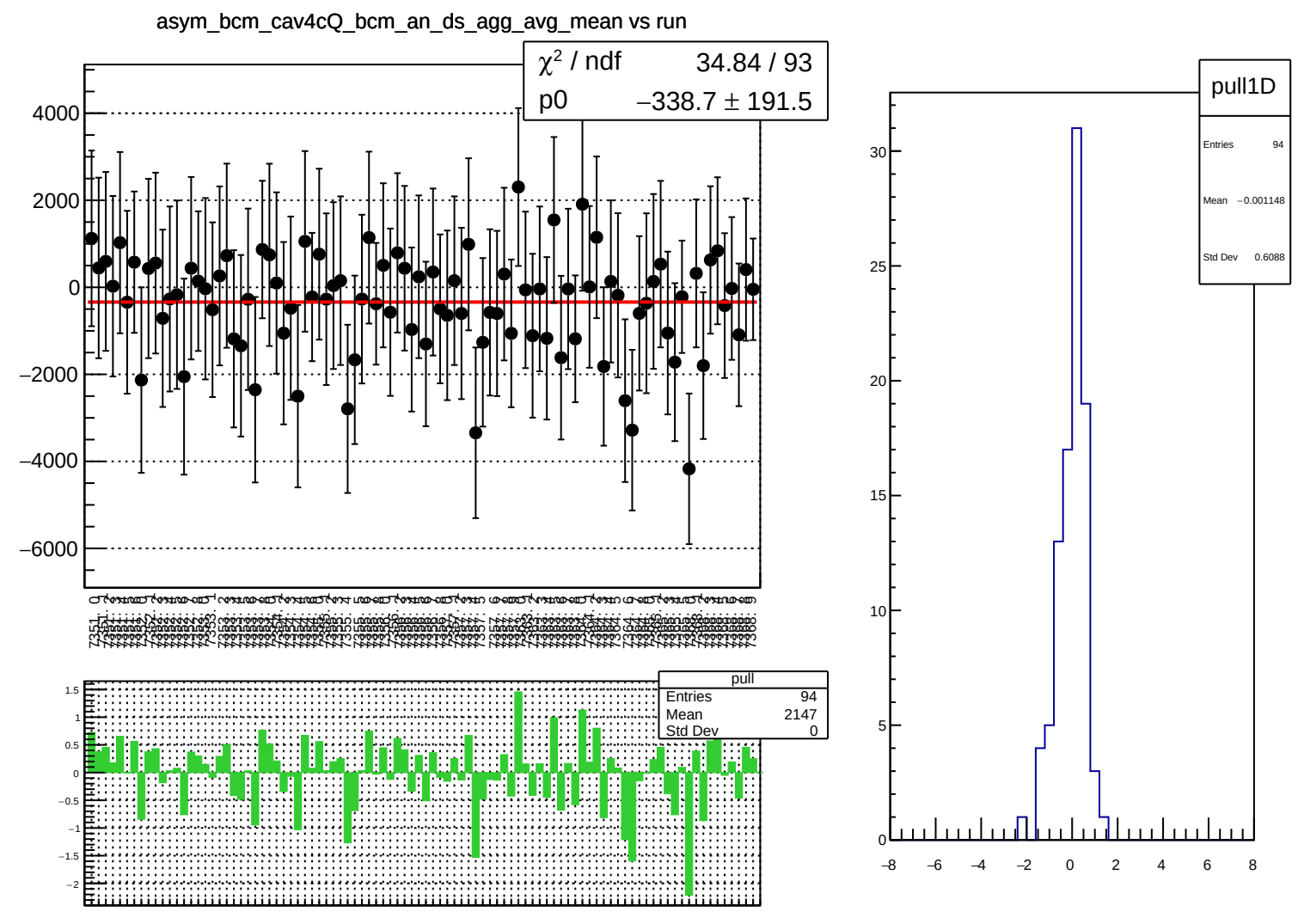

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 32.99 / 93
p0 −308.7 ± 191.8
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean 6530
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

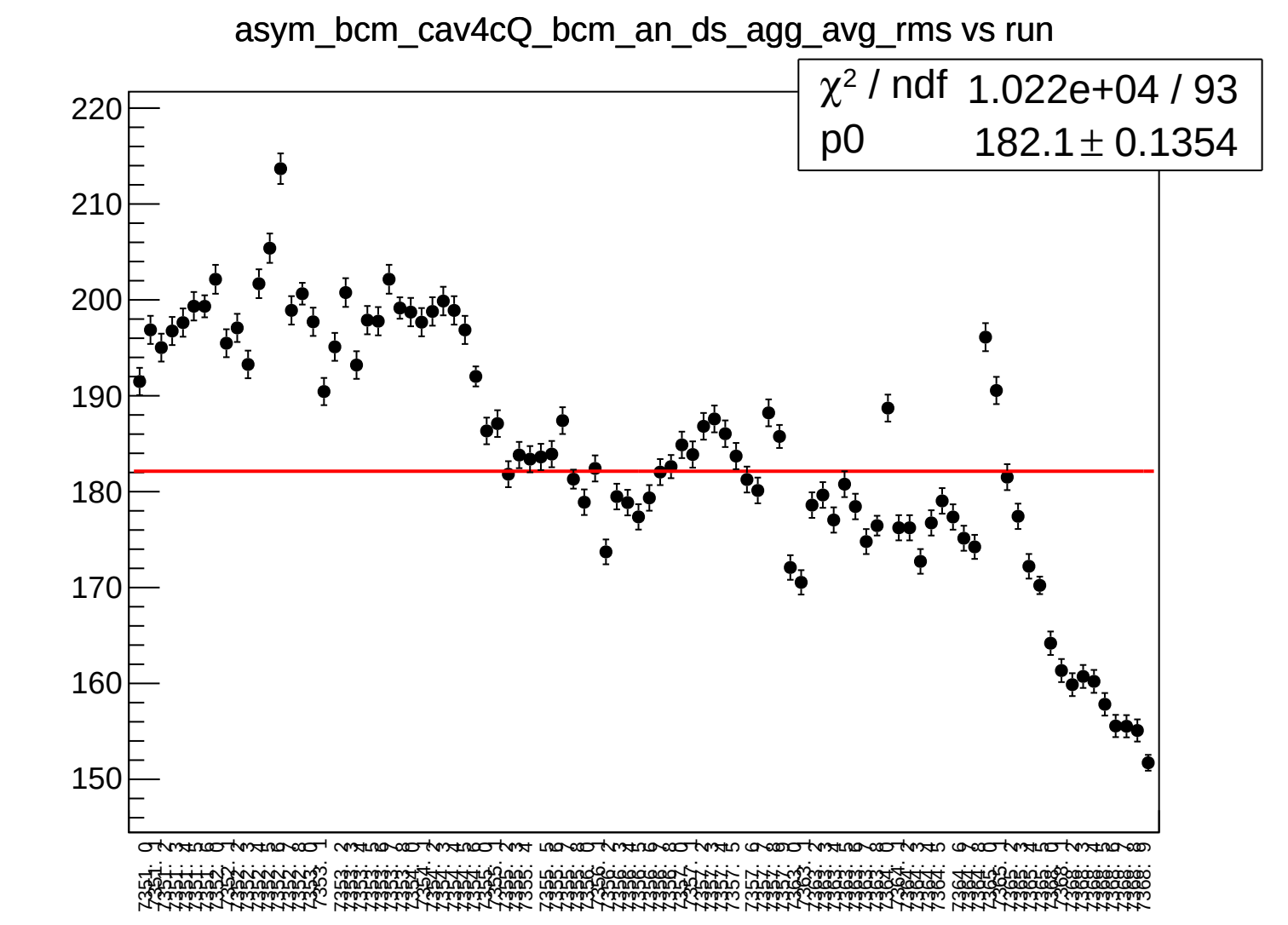

pull1D
Entries 94
Mean −0.0003576
Std Dev 0.5924
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

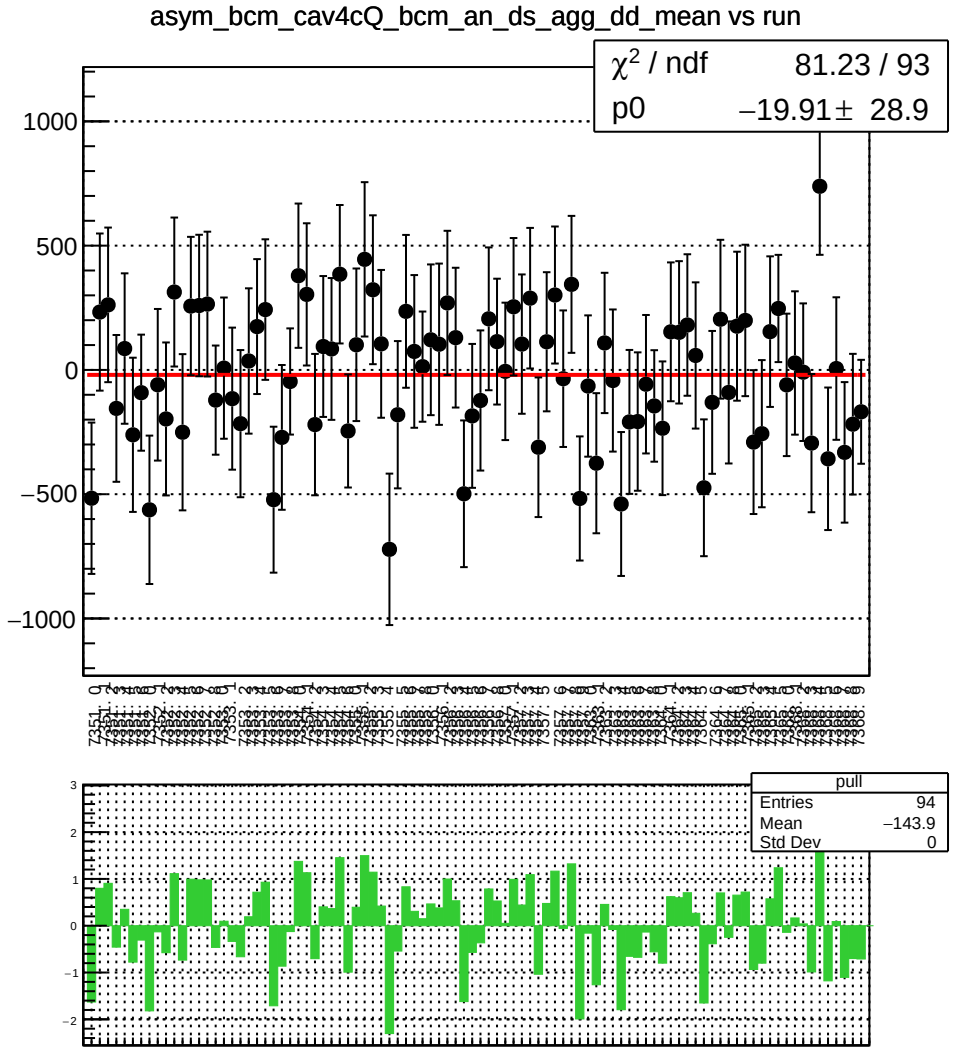

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ^2 / ndf 1.018e+04 / 93
p0 182.4 ± 0.1356
220
210
200
190
180
170
160
150

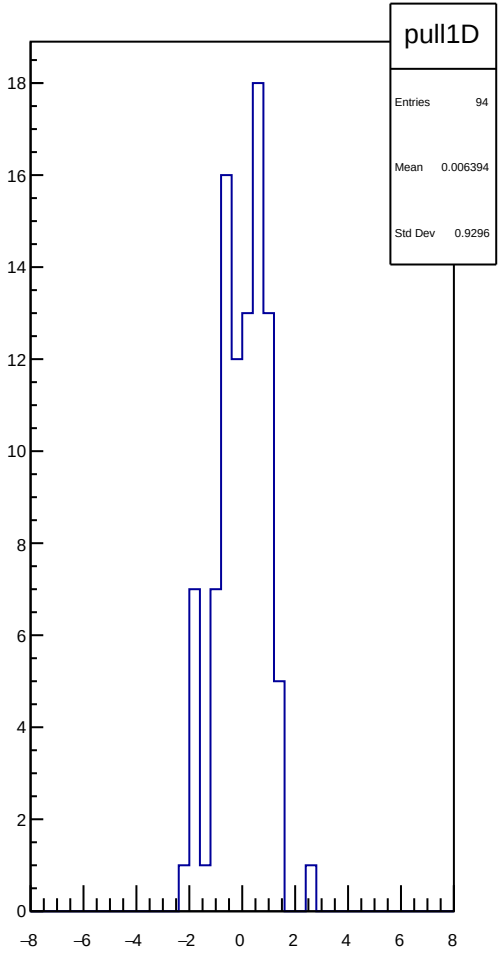

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 77.05 / 93
p0 −49.8 ± 28.93
1000
500
0
−500
−1000
pull
Entries 94
Mean −1359
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.001232
Std Dev 0.9054
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

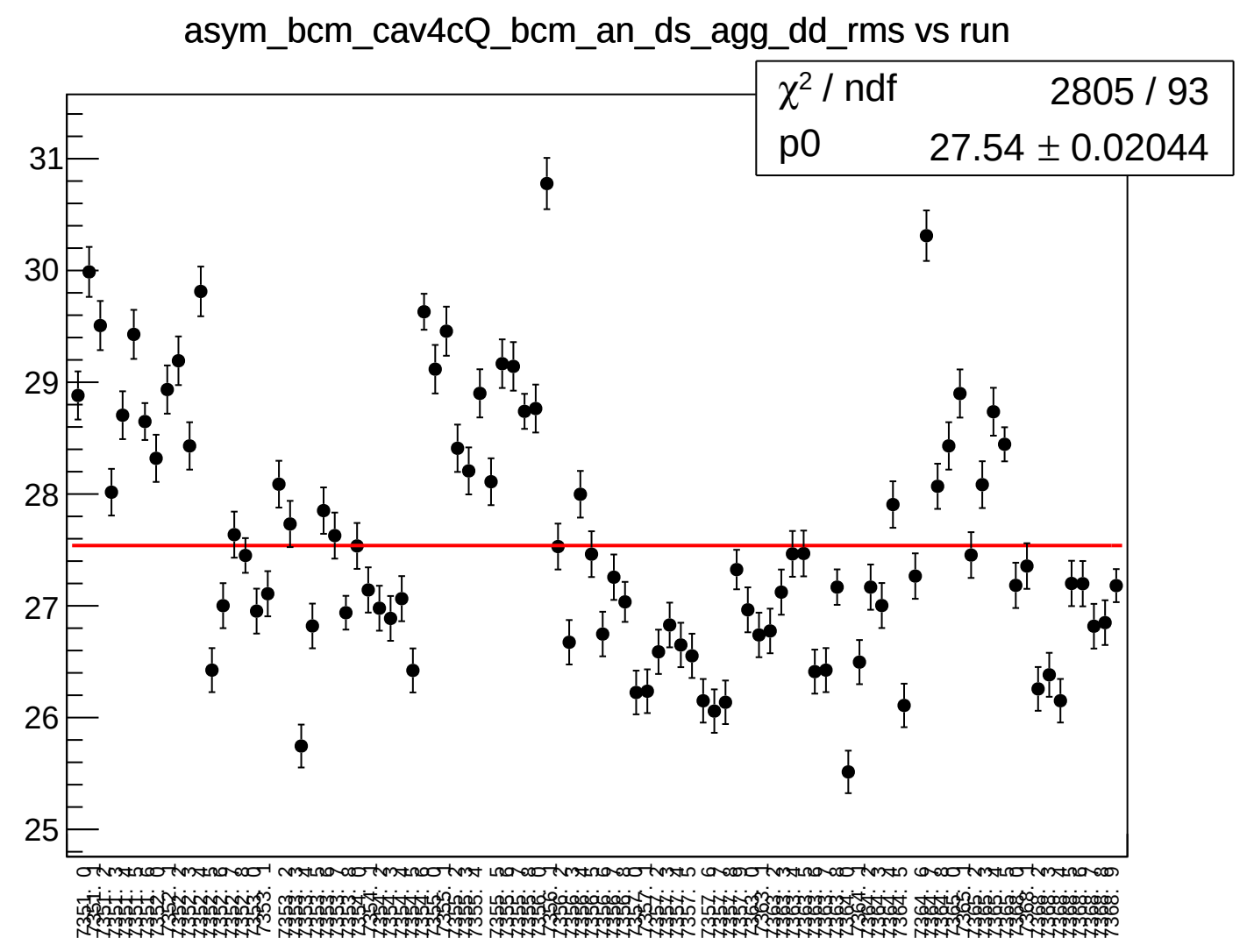

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2680 / 93
p0 27.57 ± 0.02046
31
30
29
28
27
26
25

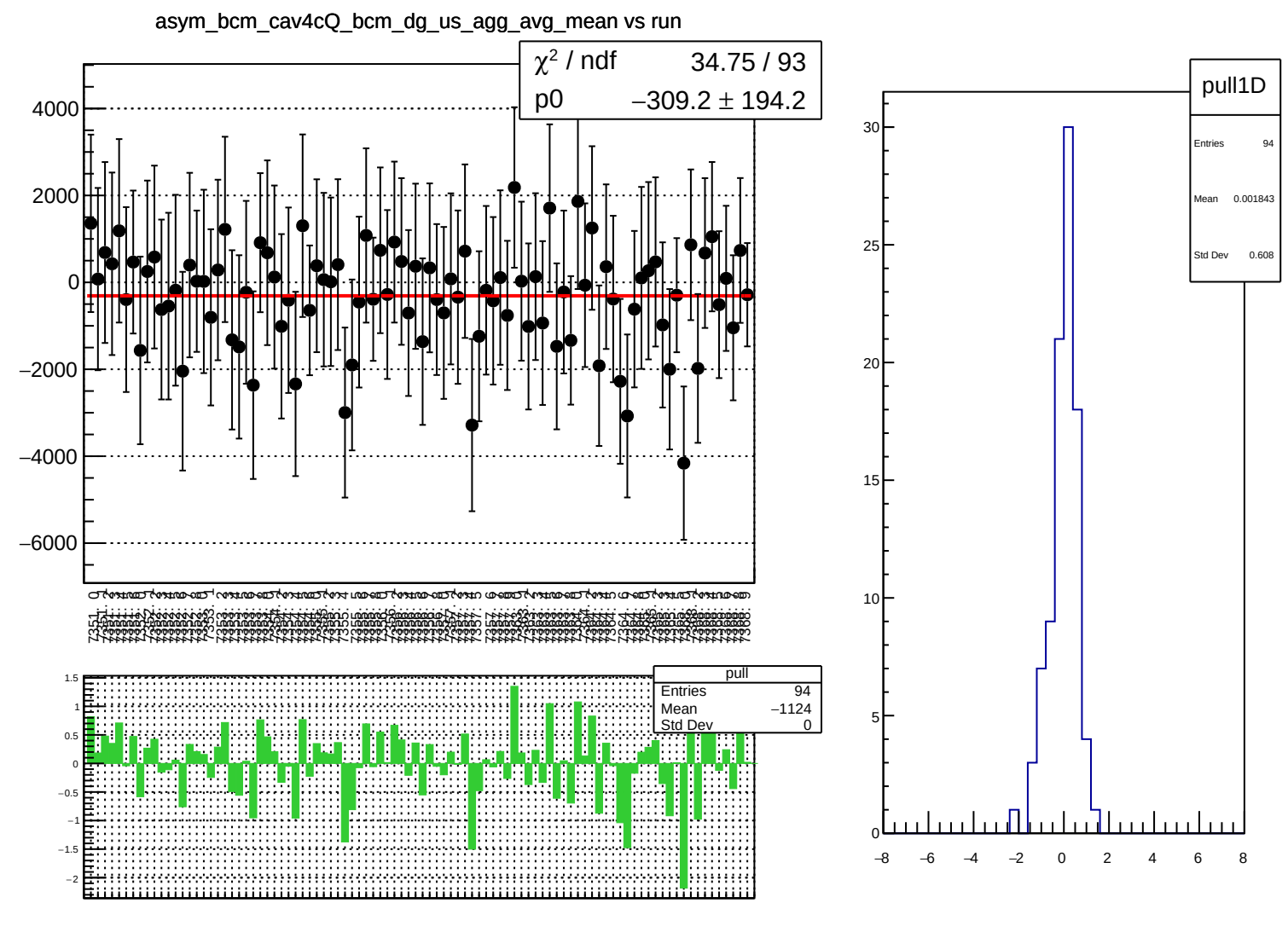

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 34.84 / 93
p0 −338.7 ± 191.5
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean 2147
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean −0.001148
Std Dev 0.6088
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

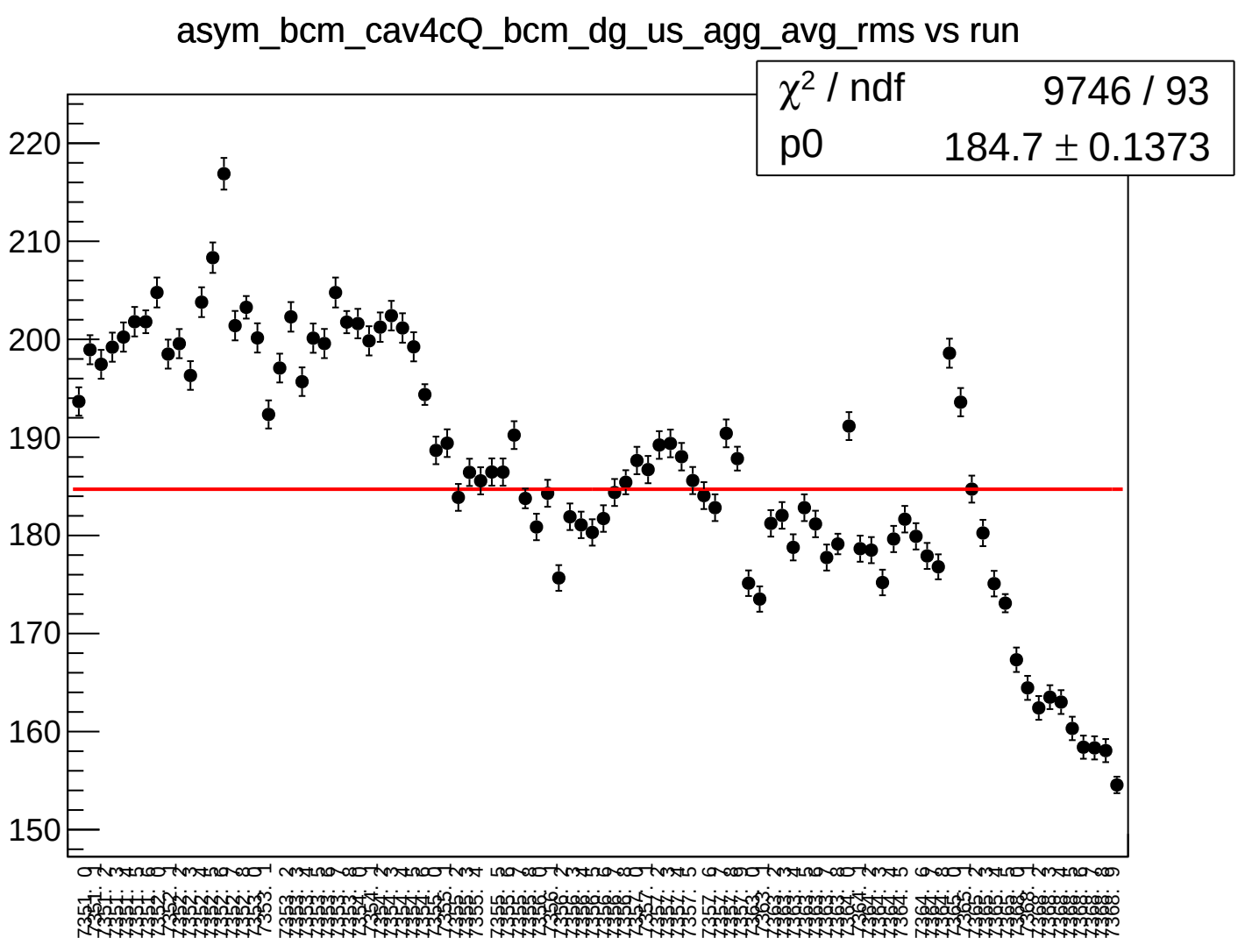

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.022e+04 / 93
p0 182.1 ± 0.1354
220
210
200
190
180
170
160
150

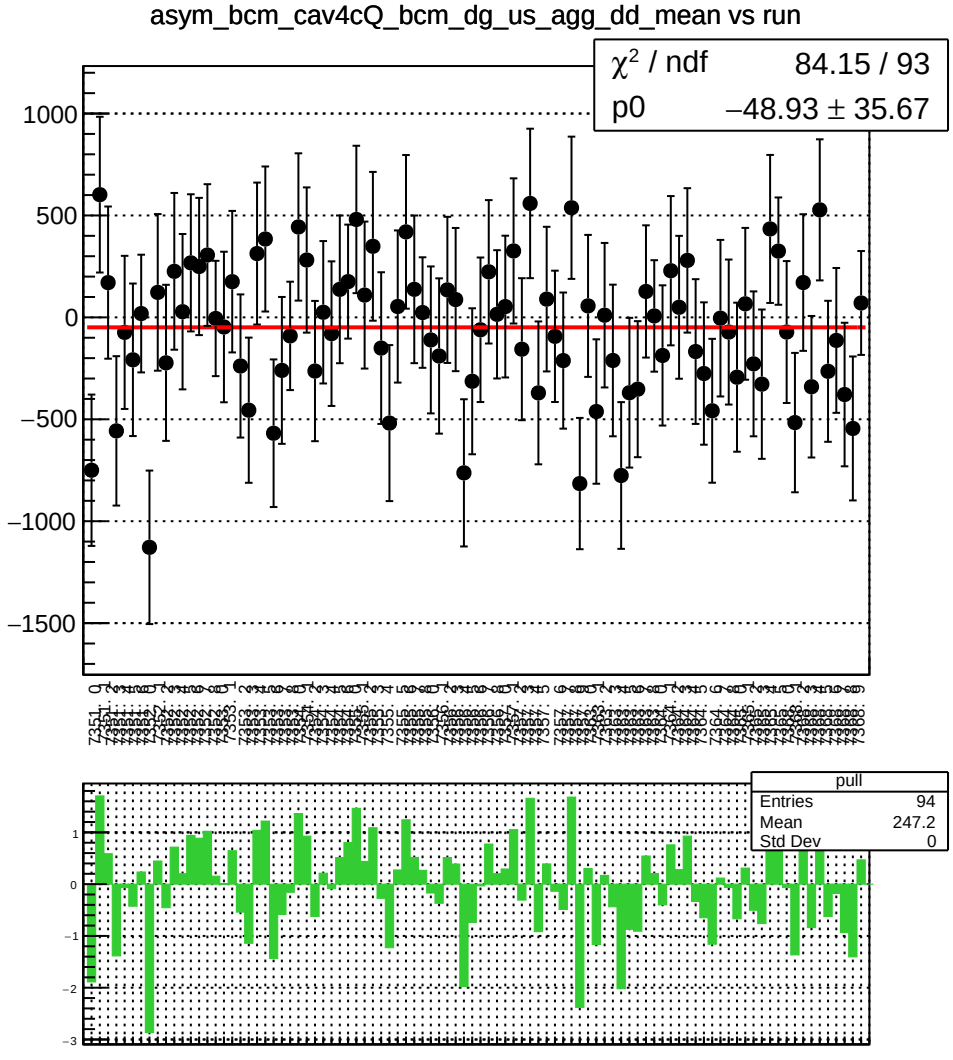

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 81.23 / 93
p0 −19.91 ± 28.9
1000
500
0
−500
−1000
pull
Entries 94
Mean −143.9
Std Dev 0
3
2
1
0
−1
−2

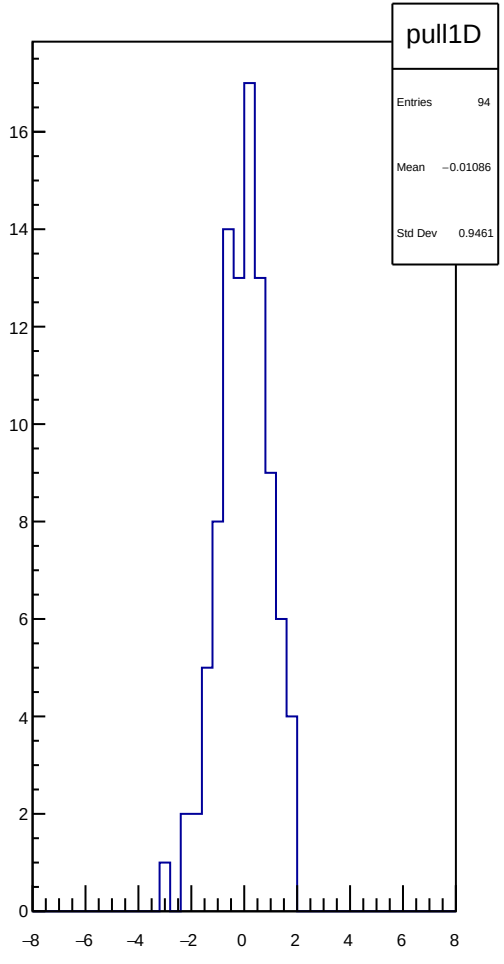

pull1D
Entries 94
Mean 0.006394
Std Dev 0.9296
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

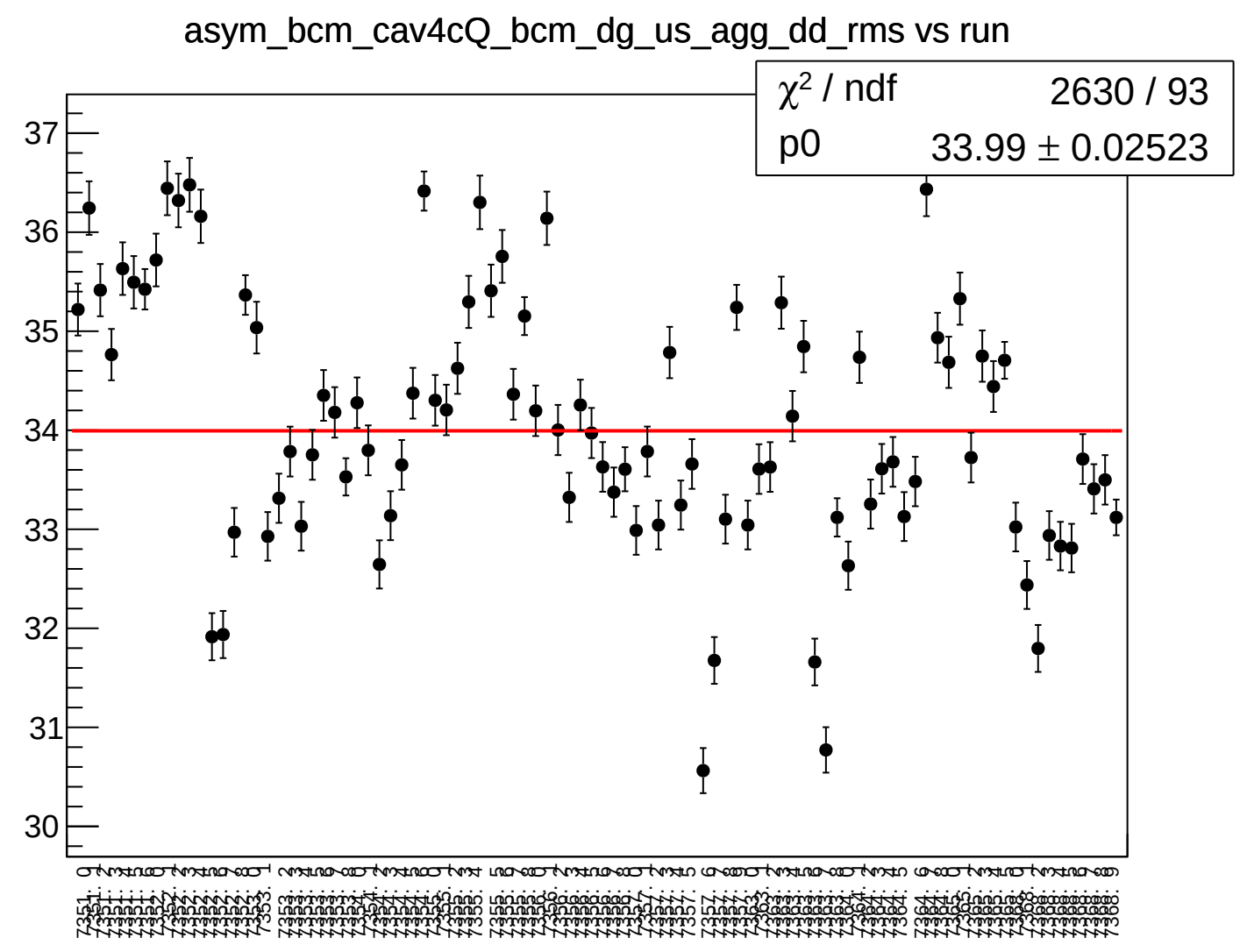

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2805 / 93
p0 27.54 ± 0.02044
31
30
29
28
27
26
25

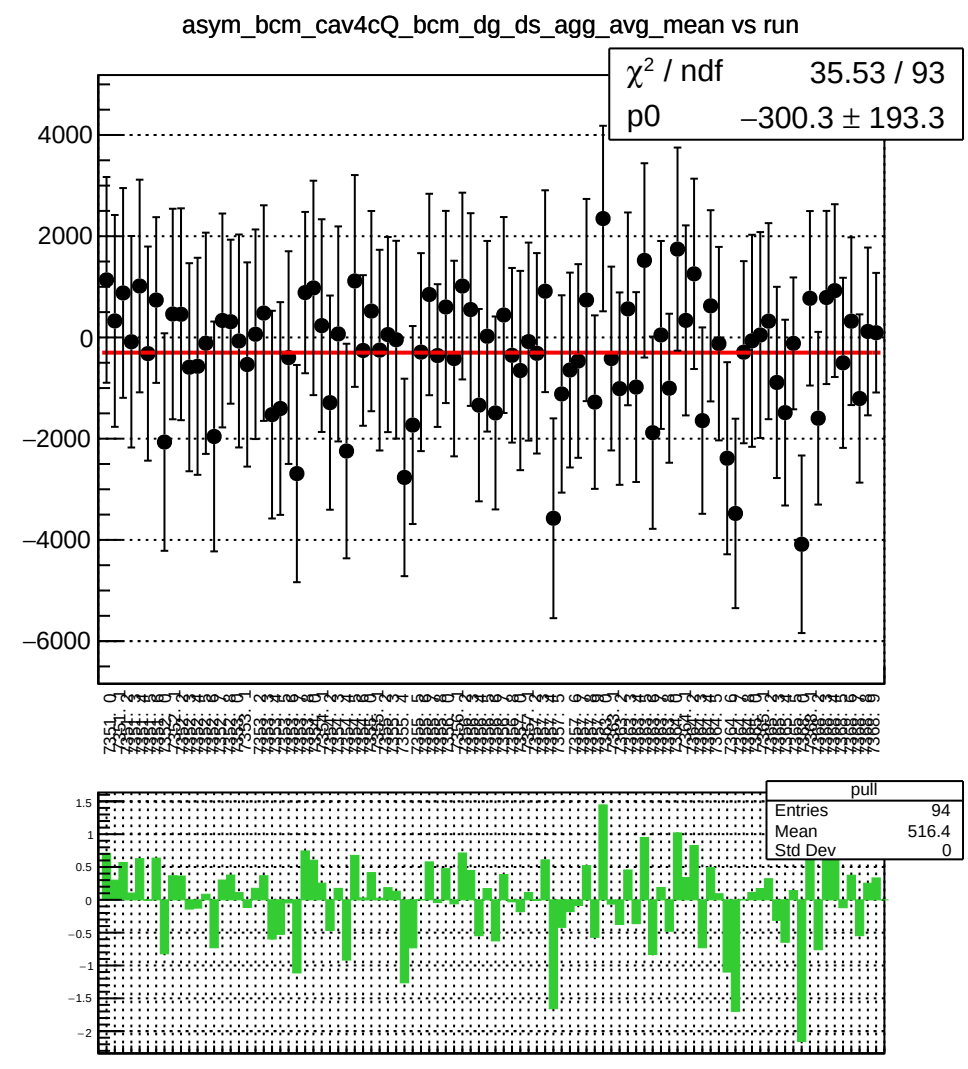

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 34.75 / 93
p0 −309.2 ± 194.2
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean −1124
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean 0.001843
Std Dev 0.608
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

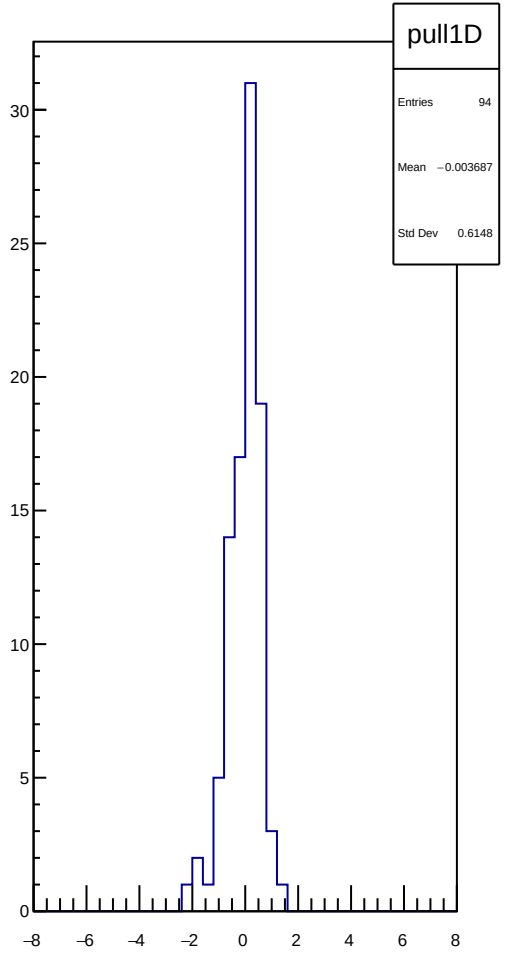

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ^2 / ndf 9746 / 93
p0 184.7 ± 0.1373
220
210
200
190
180
170
160
150

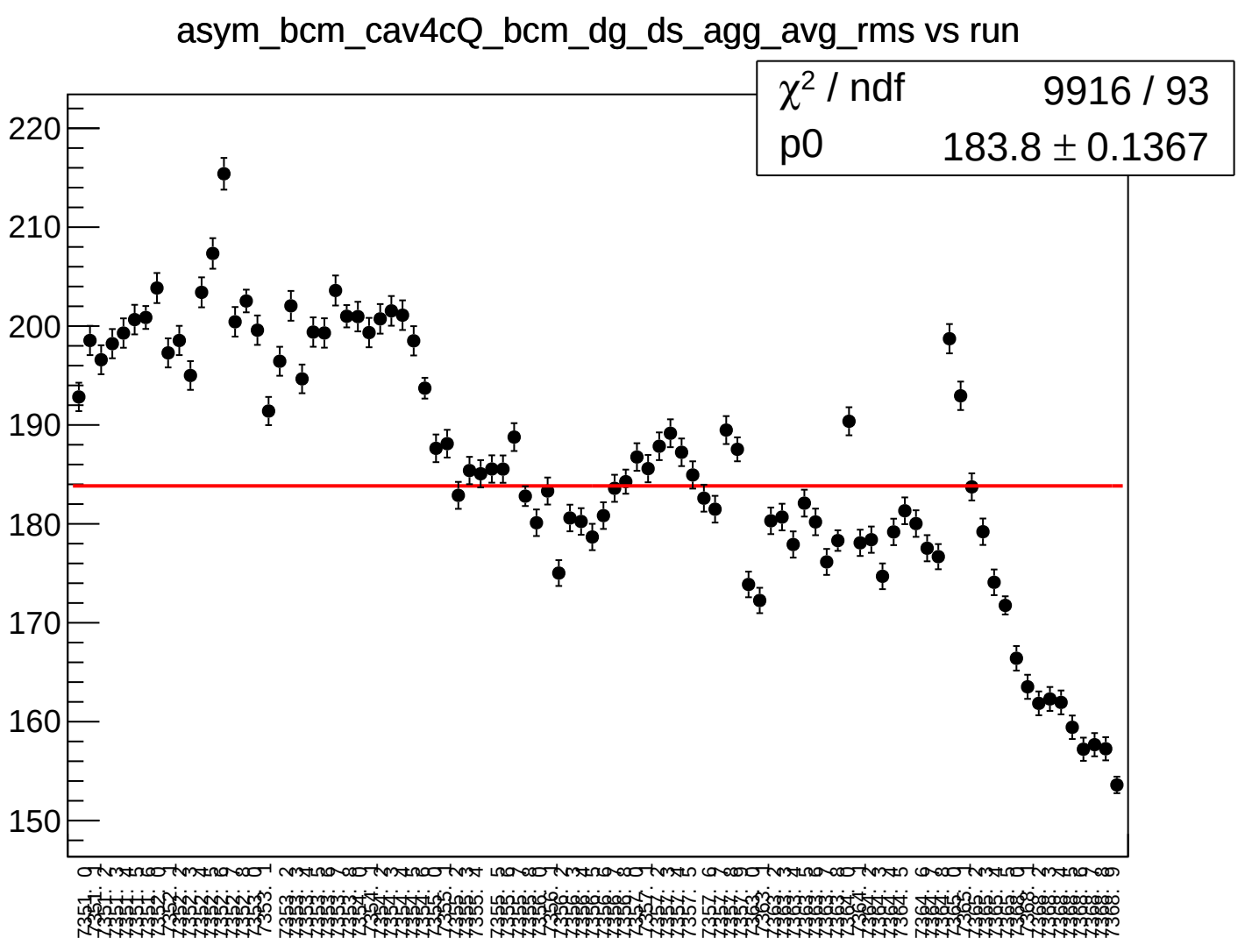

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 84.15 / 93
p0 −48.93 ± 35.67
1000
500
0
−500
−1000
−1500
pull
Entries 94
Mean 247.2
Std Dev 0
1
0
−1
−2
−3

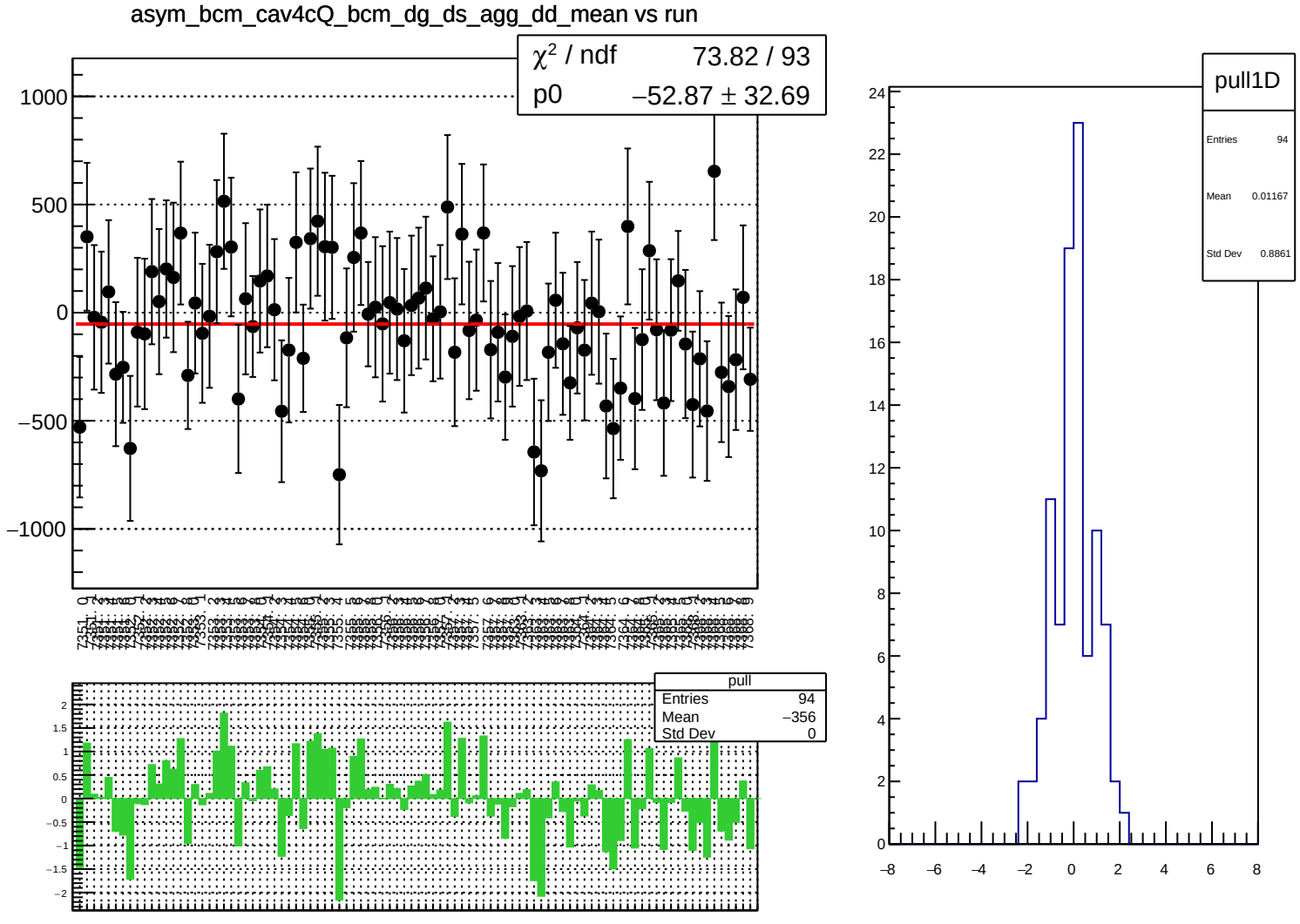

pull1D
Entries 94
Mean −0.01086
Std Dev 0.9461
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

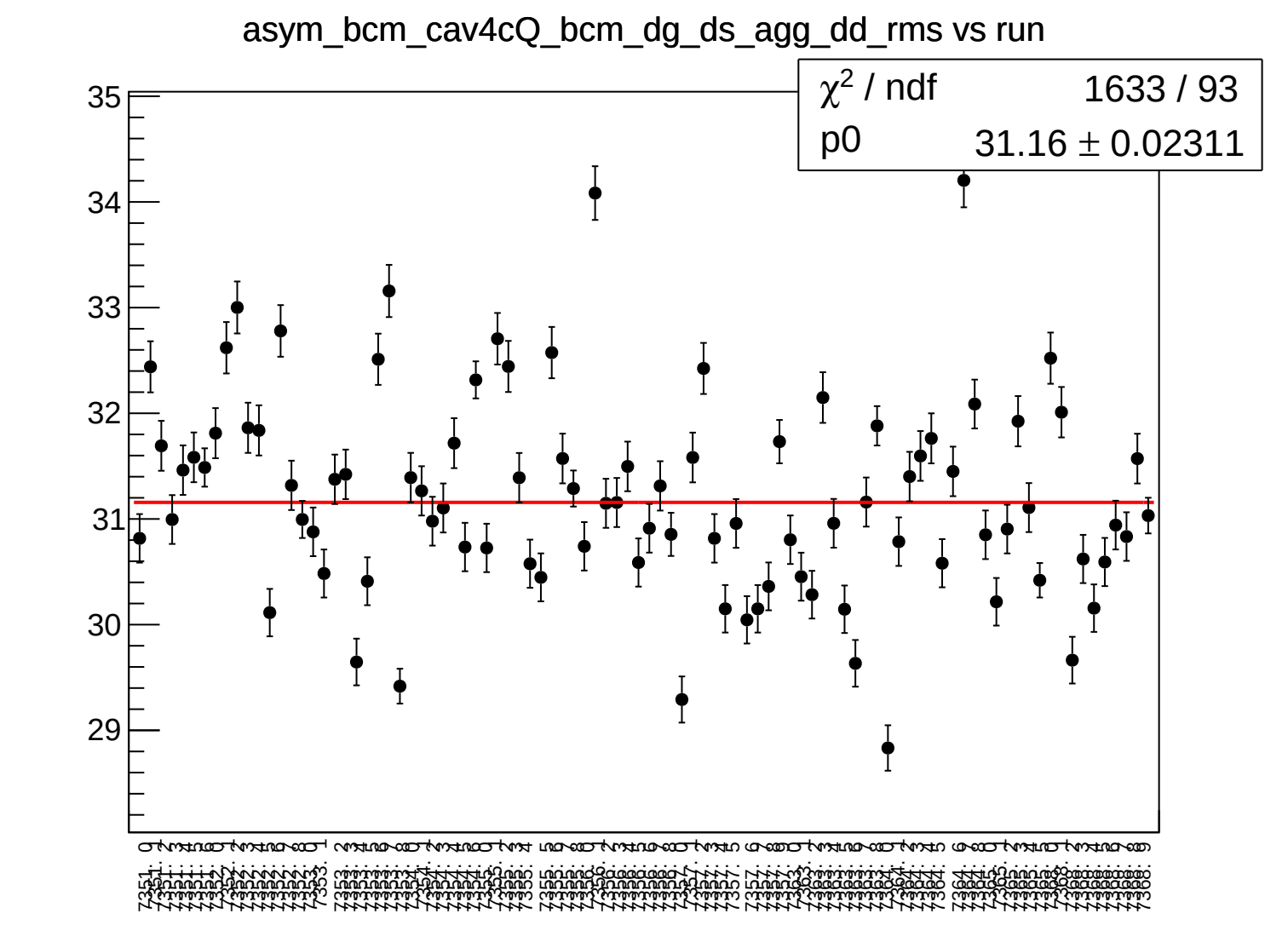

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 2630 / 93
p0 33.99 ± 0.02523
37
36
35
34
33
32
31
30

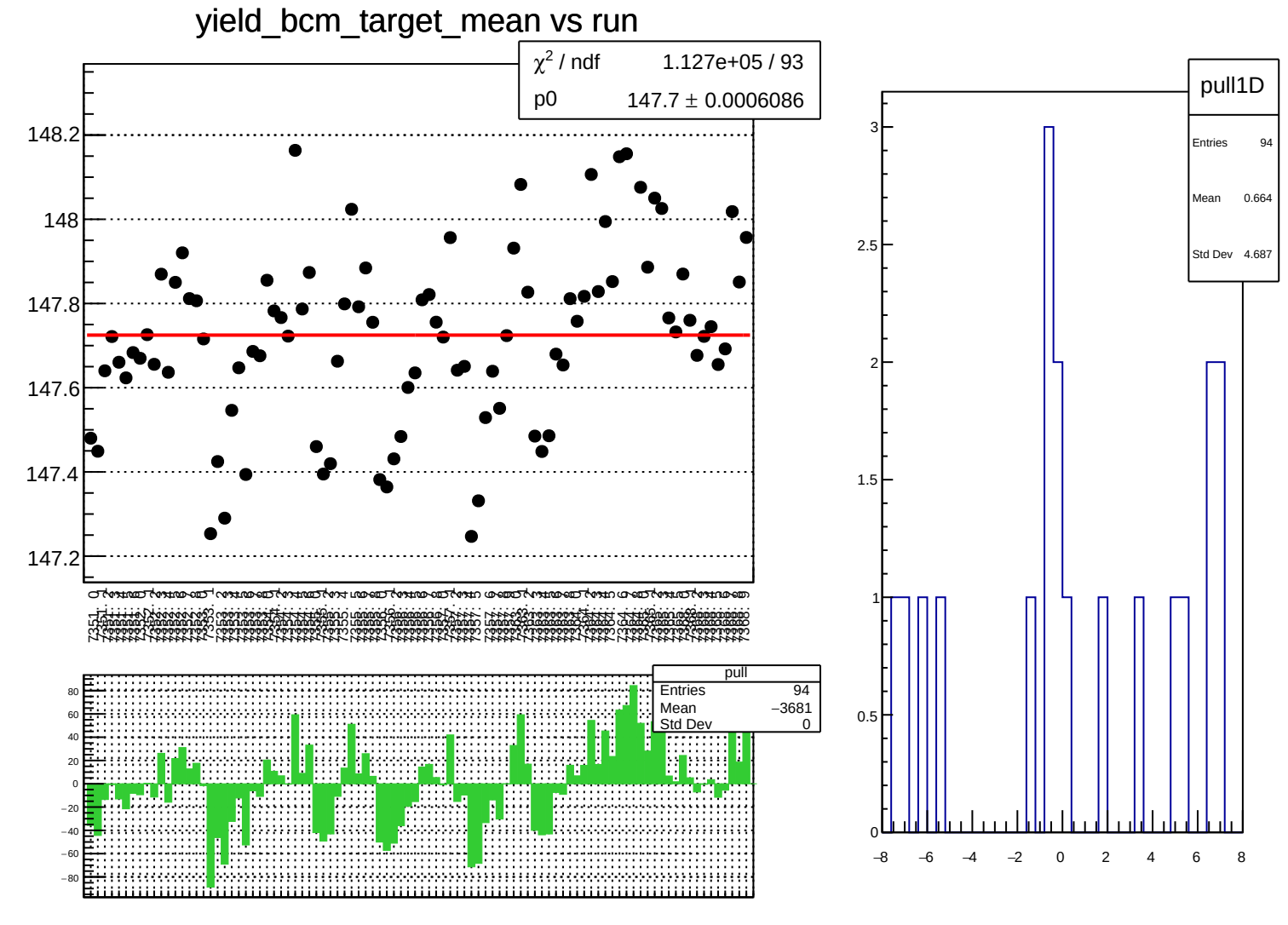

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 35.53 / 93
p0 −300.3 ± 193.3
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean 516.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 94
Mean −0.003687
Std Dev 0.6148
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

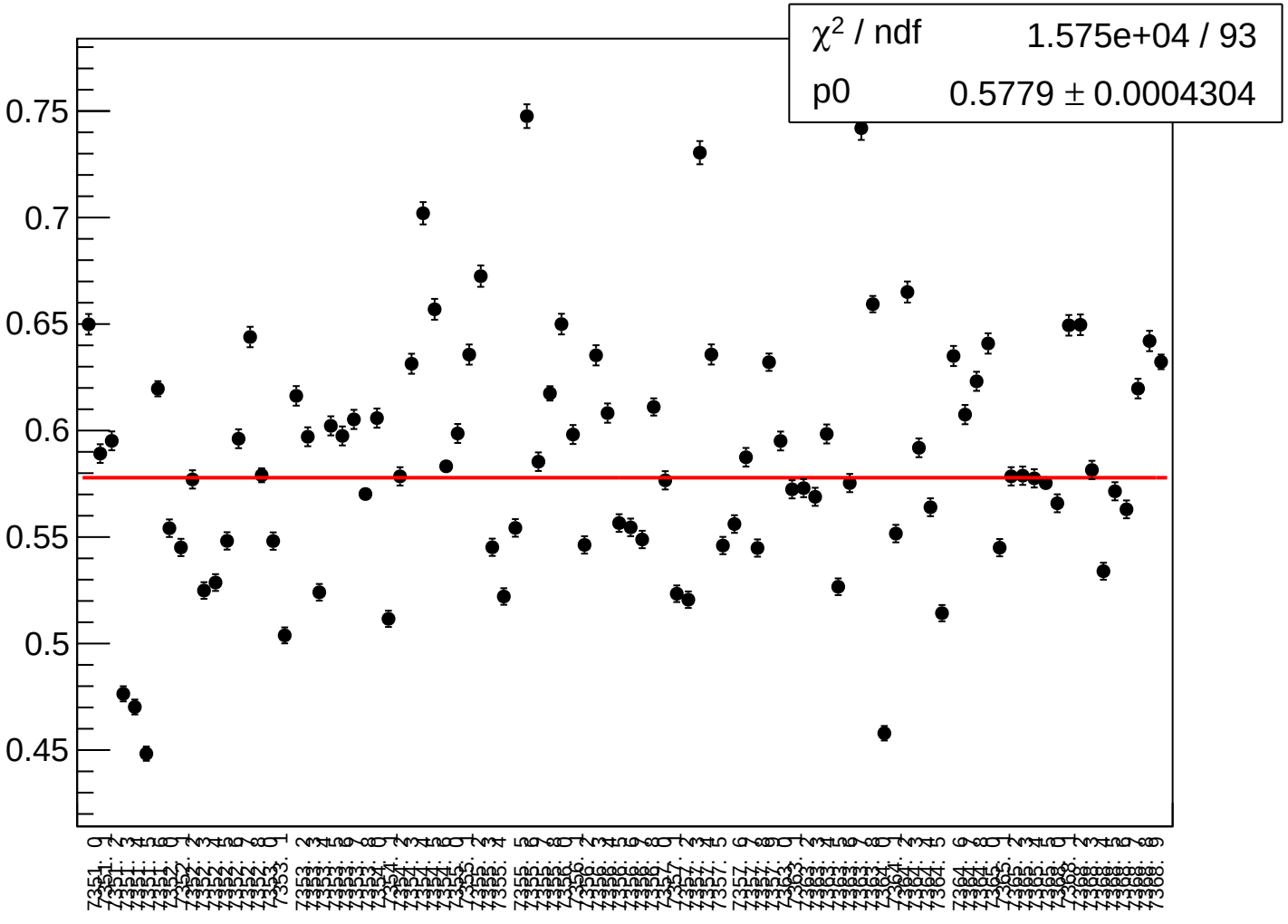

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ^2 / ndf 9916 / 93
p0 183.8 ± 0.1367
220
210
200
190
180
170
160
150

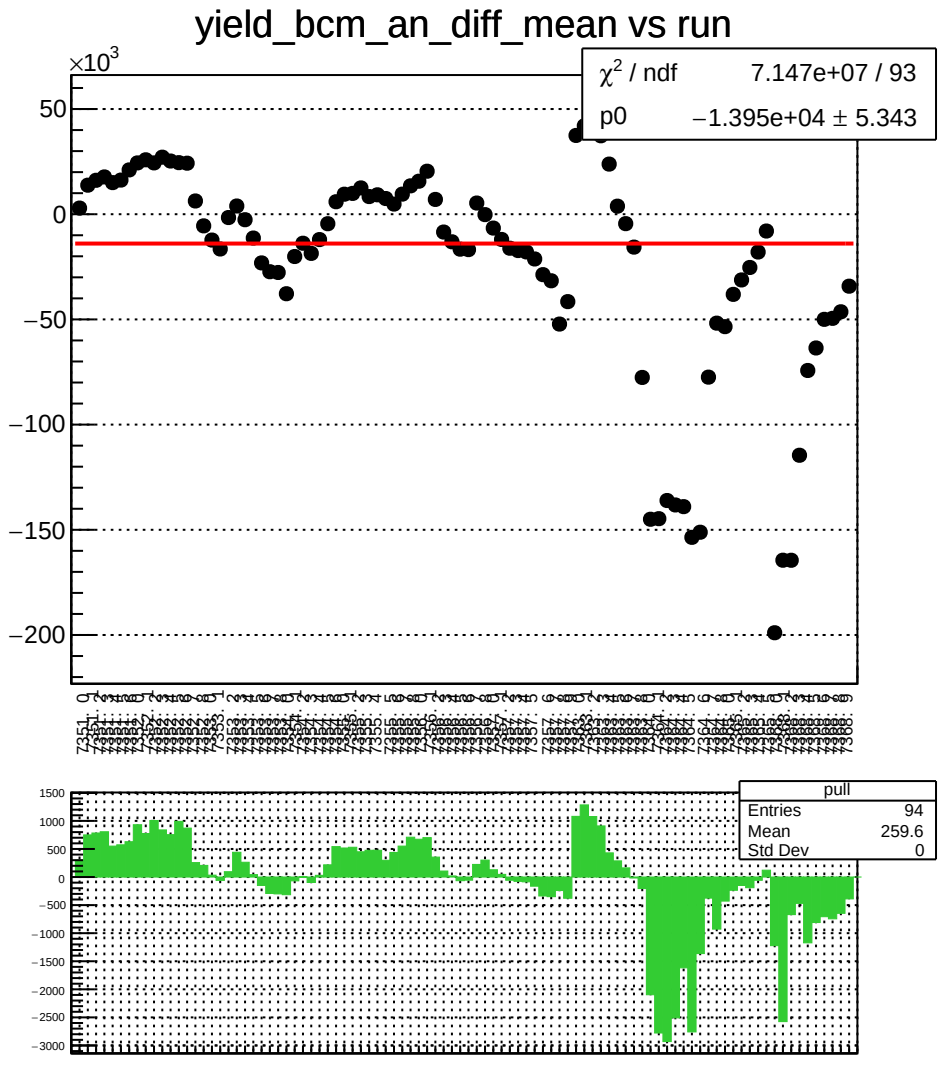

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 73.82 / 93
p0 −52.87 ± 32.69
1000
500
0
−500
−1000
pull
Entries 94
Mean −356
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean 0.01167
Std Dev 0.8861
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

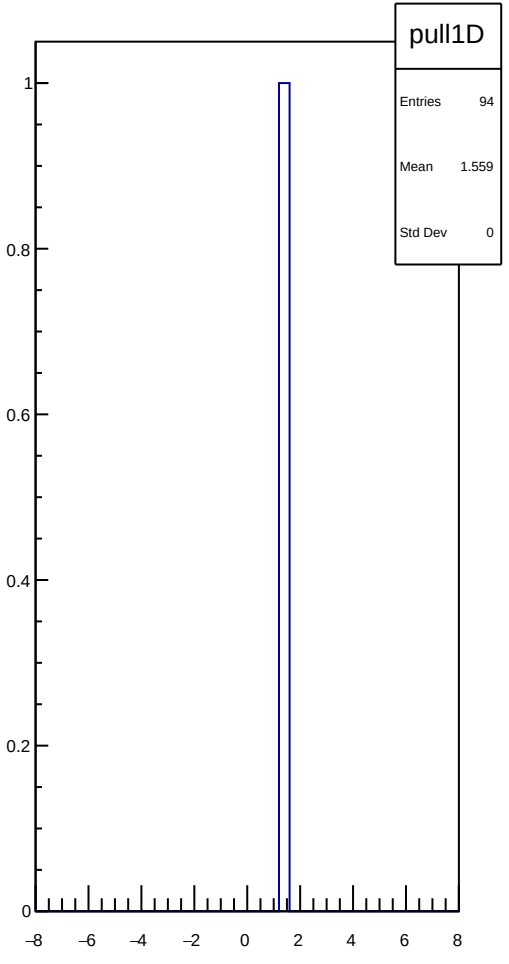

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1633 / 93
p0 31.16 ± 0.02311
35
34
33
32
31
30
29

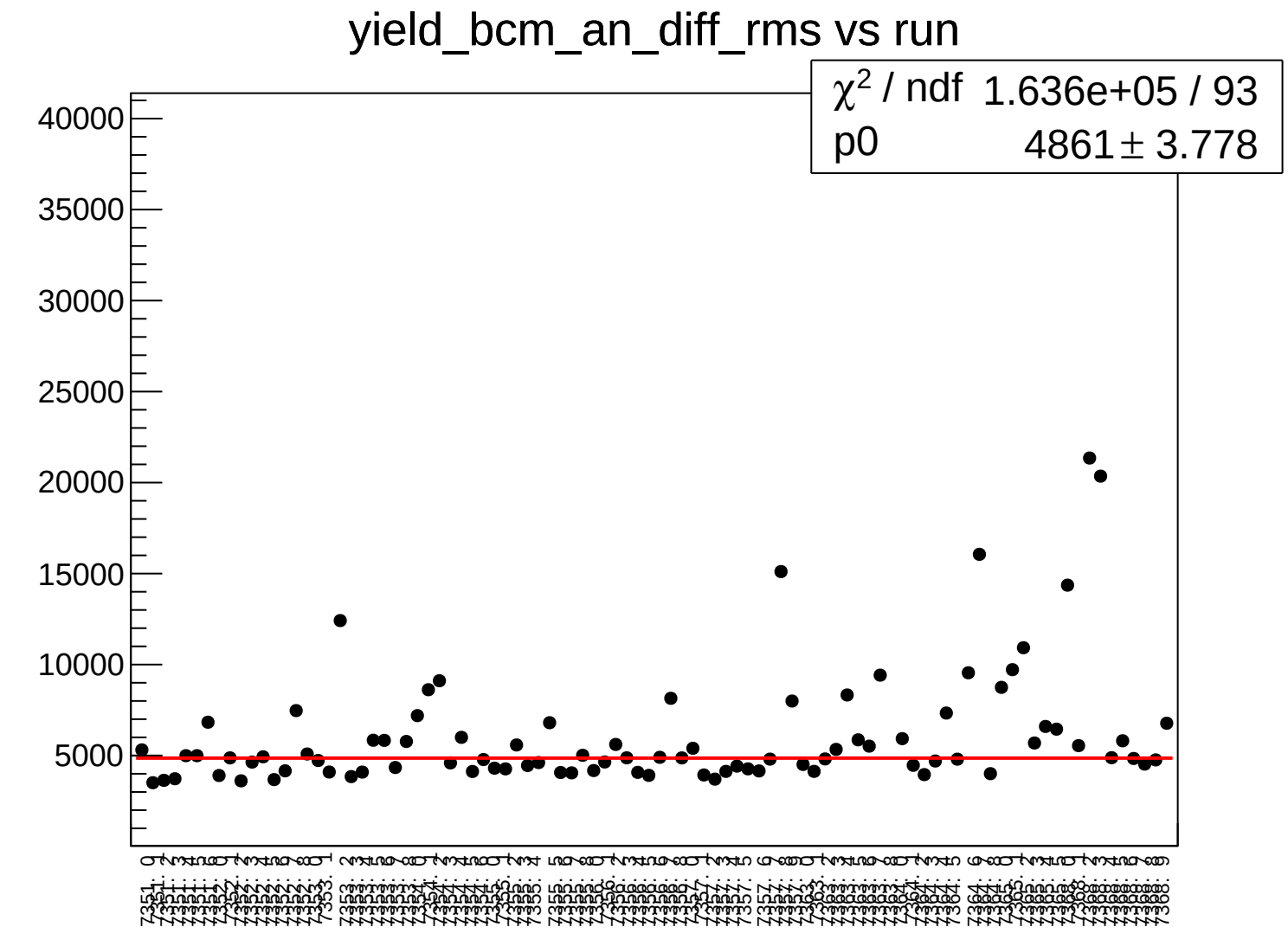

yield_bcm_target_mean vs run
χ² / ndf 1.127e+05 / 93
p0 147.7 ± 0.0006086
148.2
148
147.8
147.6
147.4
147.2
pull
Entries 94
Mean −3681
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
pull1D
Entries 94
Mean 0.664
Std Dev 4.687
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

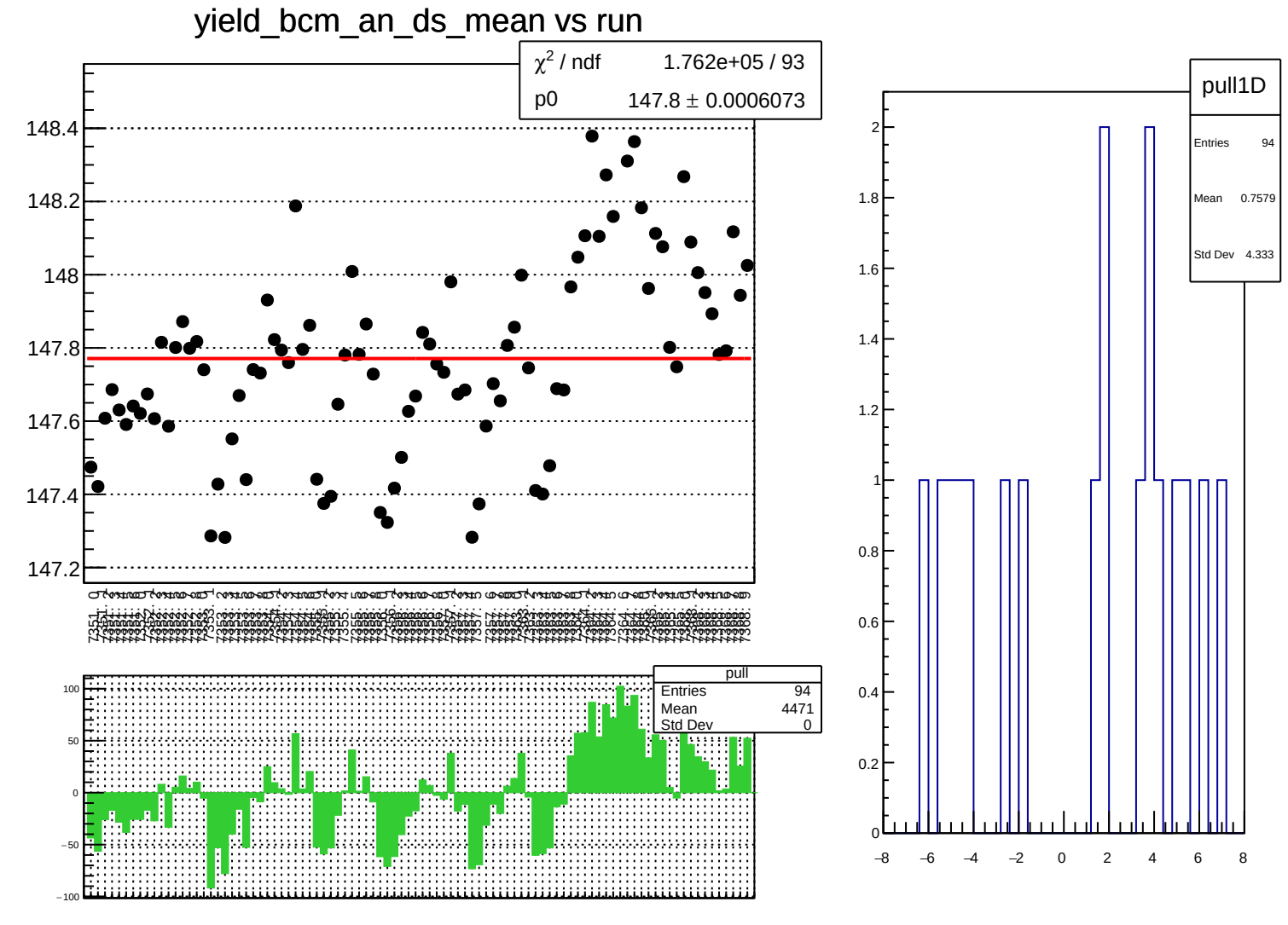
yield_bcm_target_rms vs run

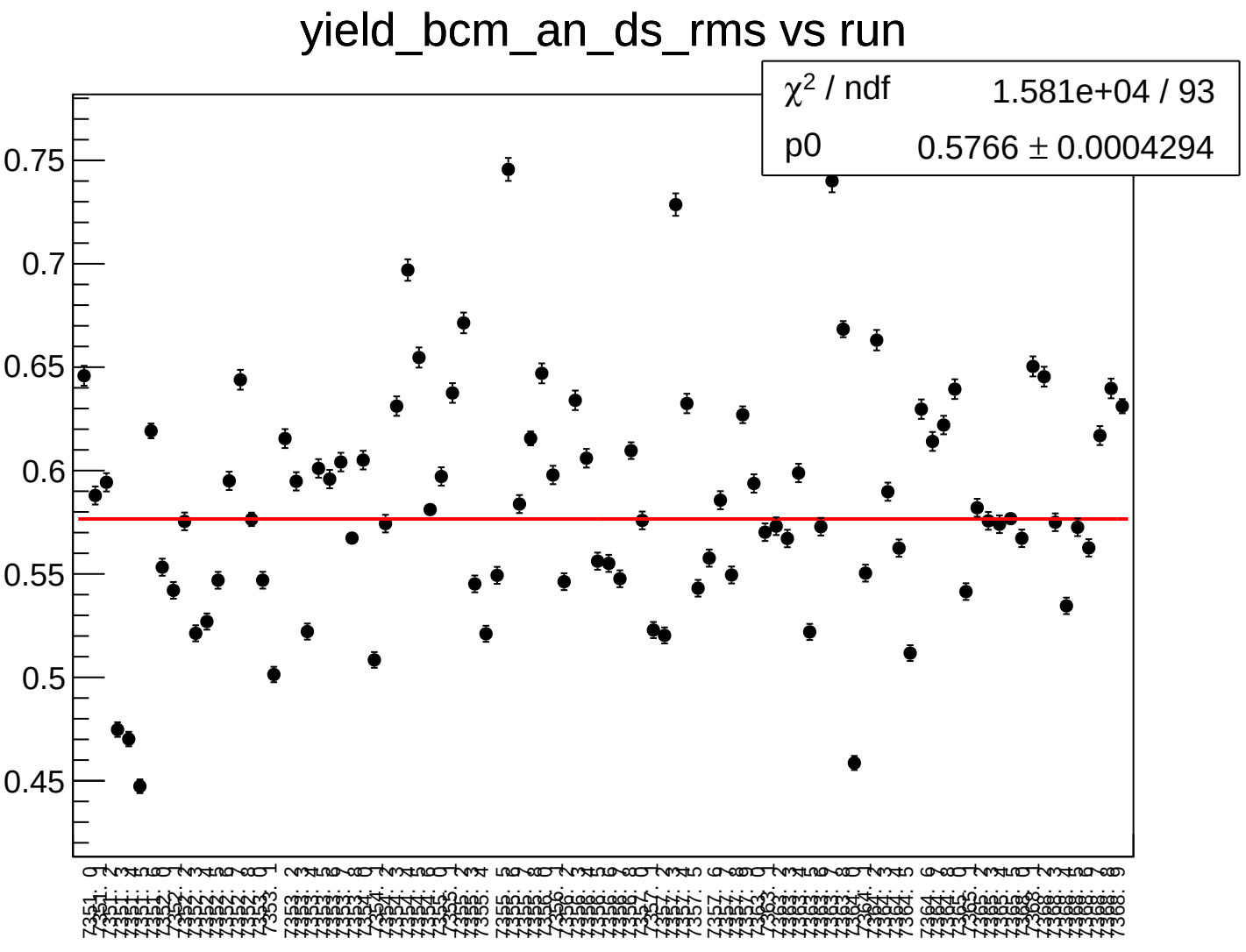


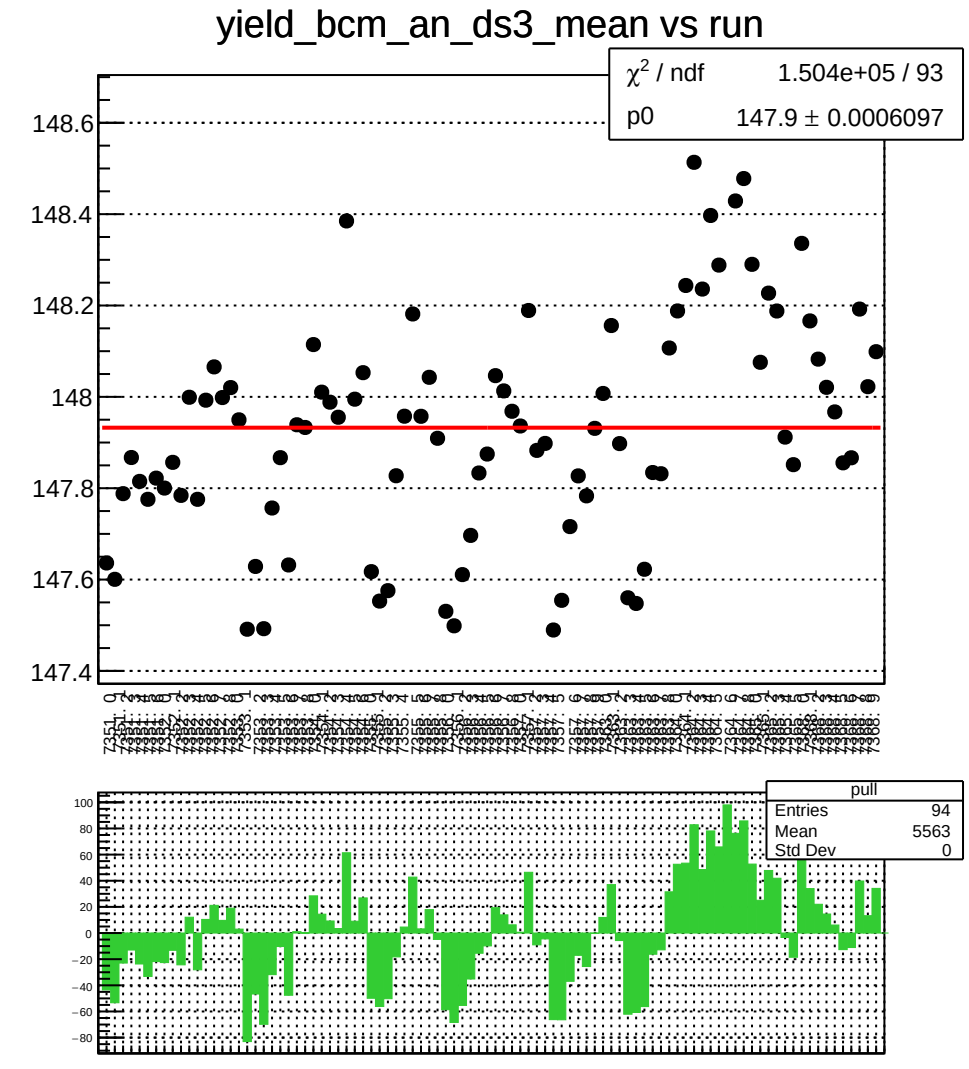

yield_bcm_an_diff_mean vs run
×10^3
χ² / ndf 7.147e+07 / 93
p0 −1.395e+04 ± 5.343
50
0
−50
−100
−150
−200
pull
Entries 94
Mean 259.6
Std Dev 0
1500
1000
500
0
−500
−1000
−1500
−2000
−2500
−3000

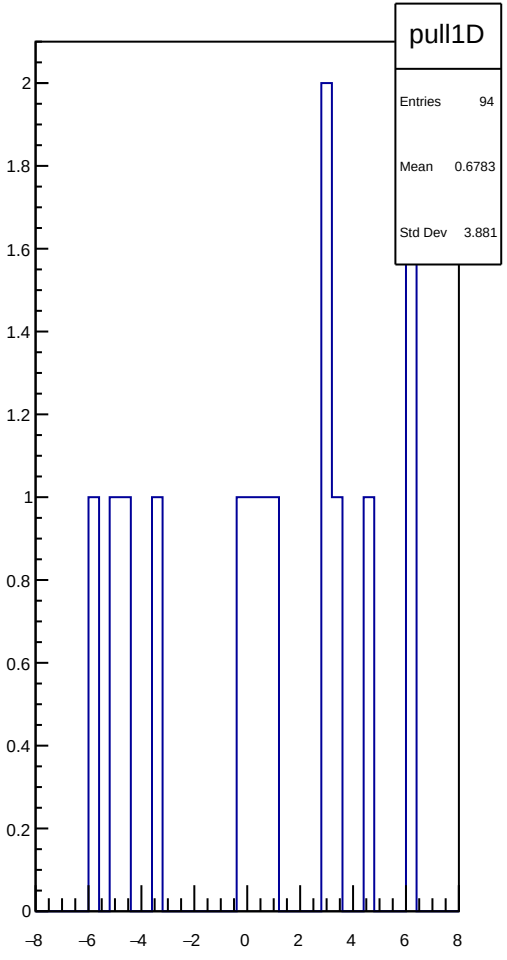

pull1D
Entries 94
Mean 1.559
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

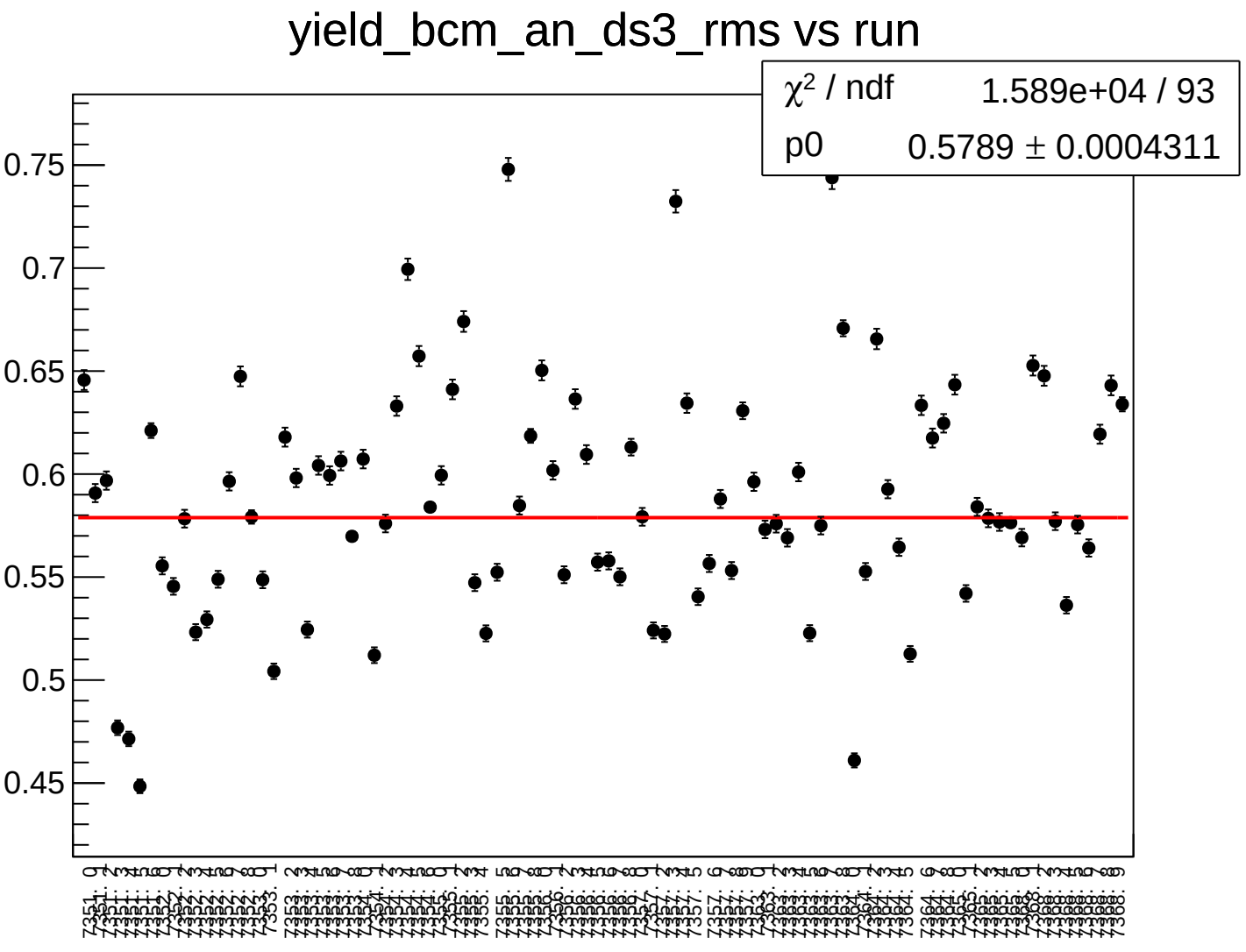

yield_bcm_an_diff_rms vs run
χ^2 / ndf 1.636e+05 / 93
p0 4861 ± 3.778
40000
35000
30000
25000
20000
15000
10000
5000

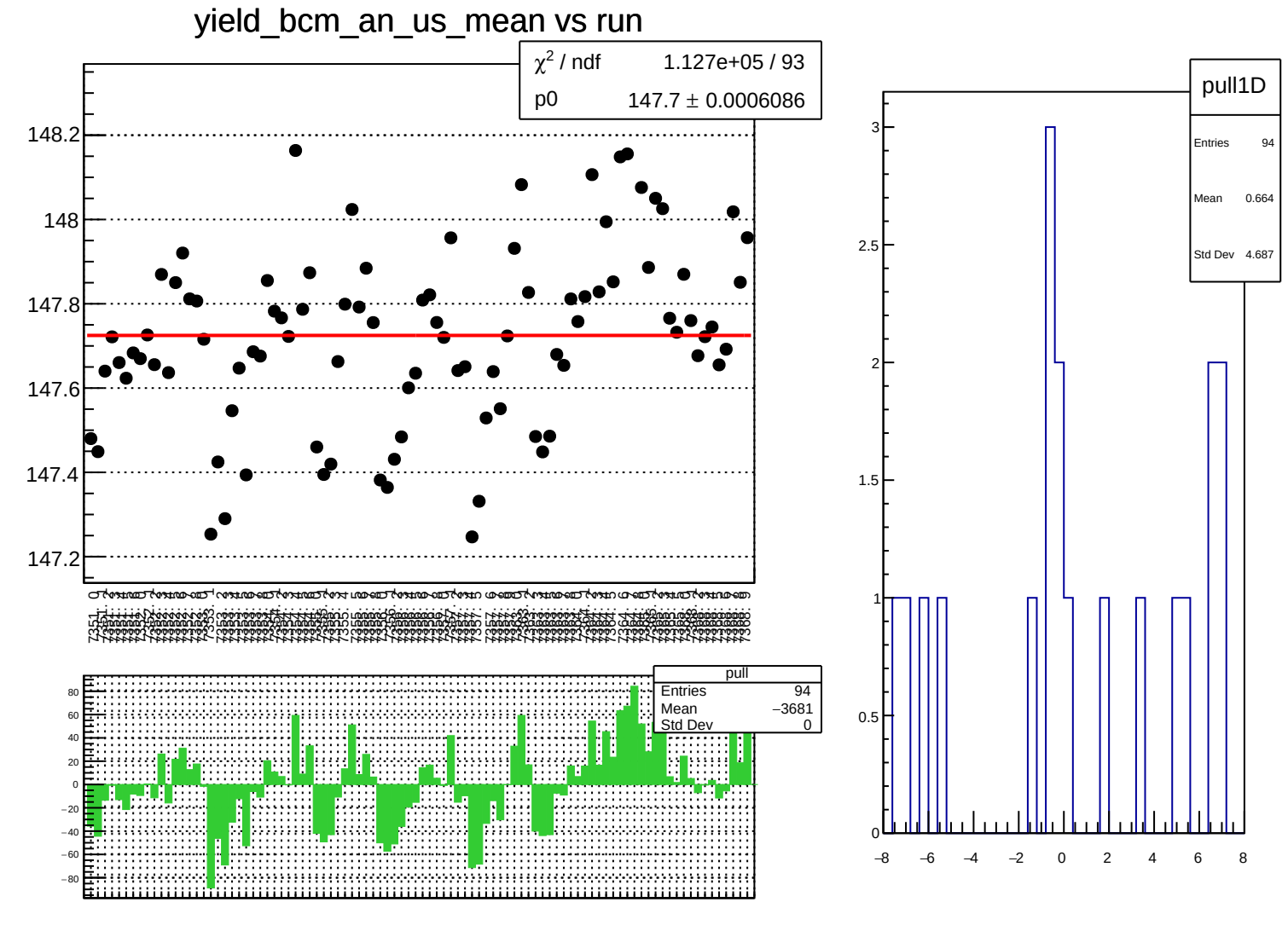

yield_bcm_an_ds_mean vs run
χ² / ndf 1.762e+05 / 93
p0 147.8 ± 0.0006073
148.4
148.2
148
147.8
147.6
147.4
147.2
pull
Entries 94
Mean 4471
Std Dev 0
100
50
0
−50
−100
pull1D
Entries 94
Mean 0.7579
Std Dev 4.333
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

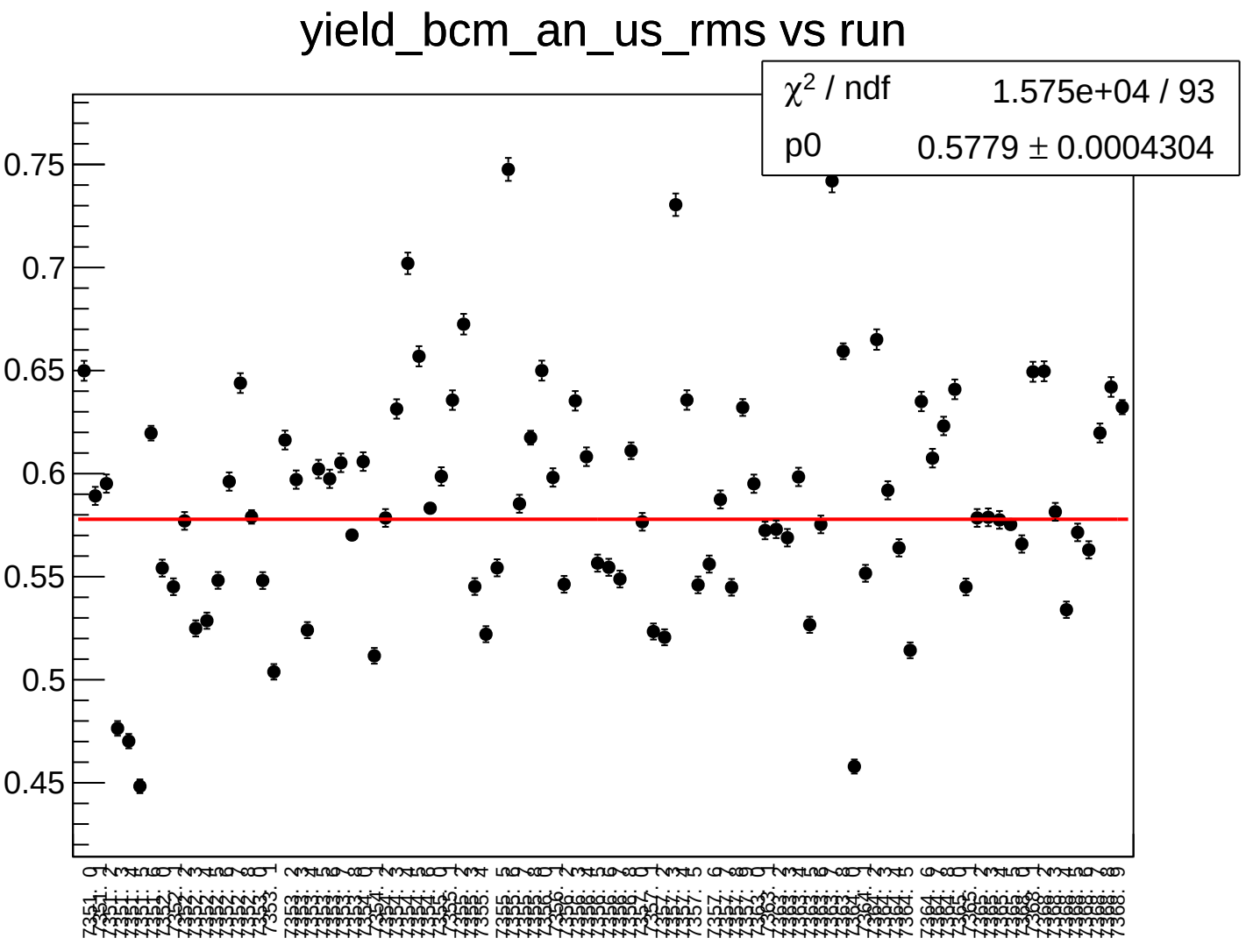

yield_bcm_an_ds_rms vs run
χ² / ndf 1.581e+04 / 93
p0 0.5766 ± 0.0004294
0.75
0.7
0.65
0.6
0.55
0.5
0.45

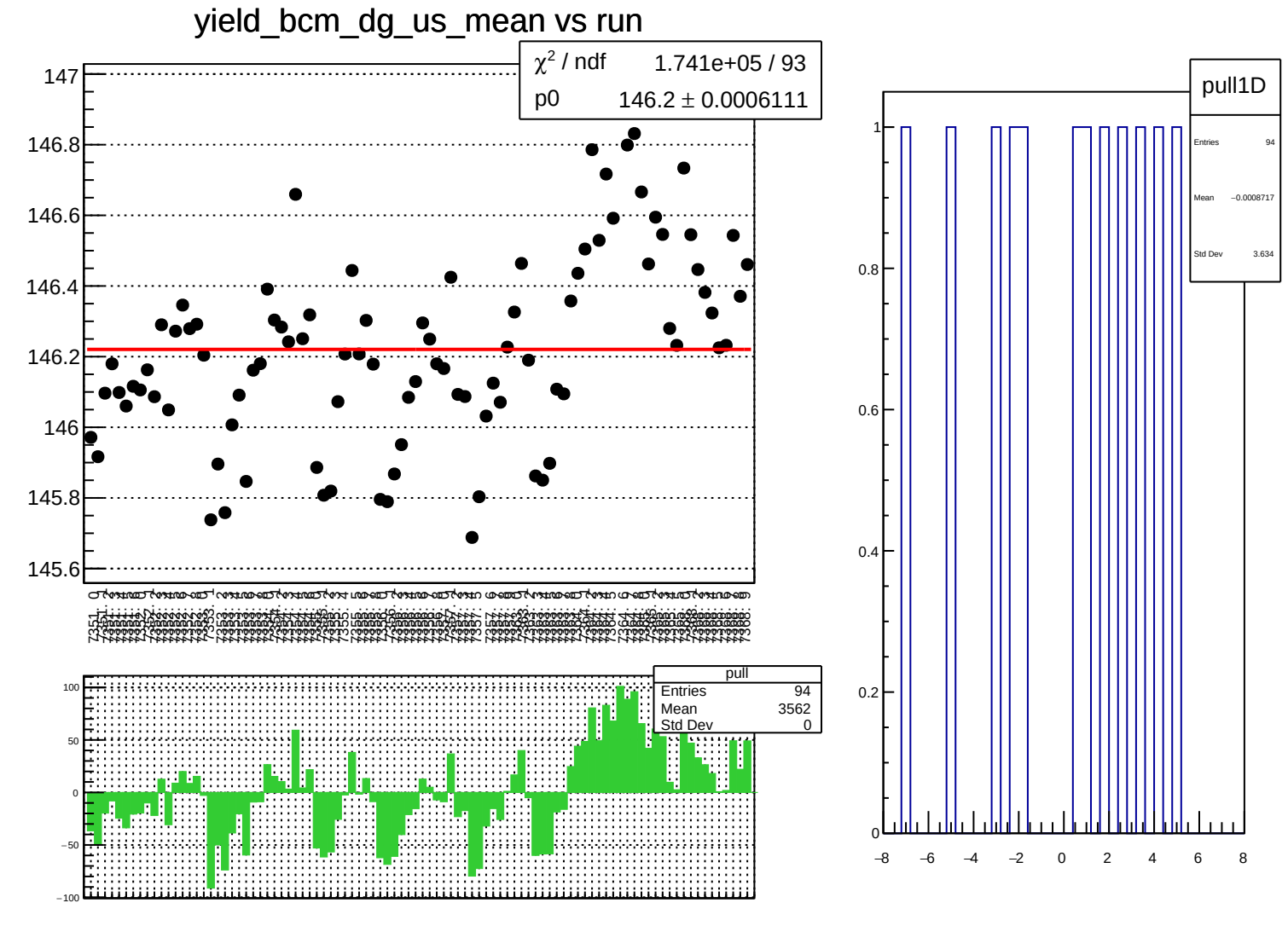

yield_bcm_an_ds3_mean vs run
χ² / ndf 1.504e+05 / 93
p0 147.9 ± 0.0006097
148.6
148.4
148.2
148
147.8
147.6
147.4
pull
Entries 94
Mean 5563
Std Dev 0
100
80
60
40
20
0
−20
−40
−60
−80

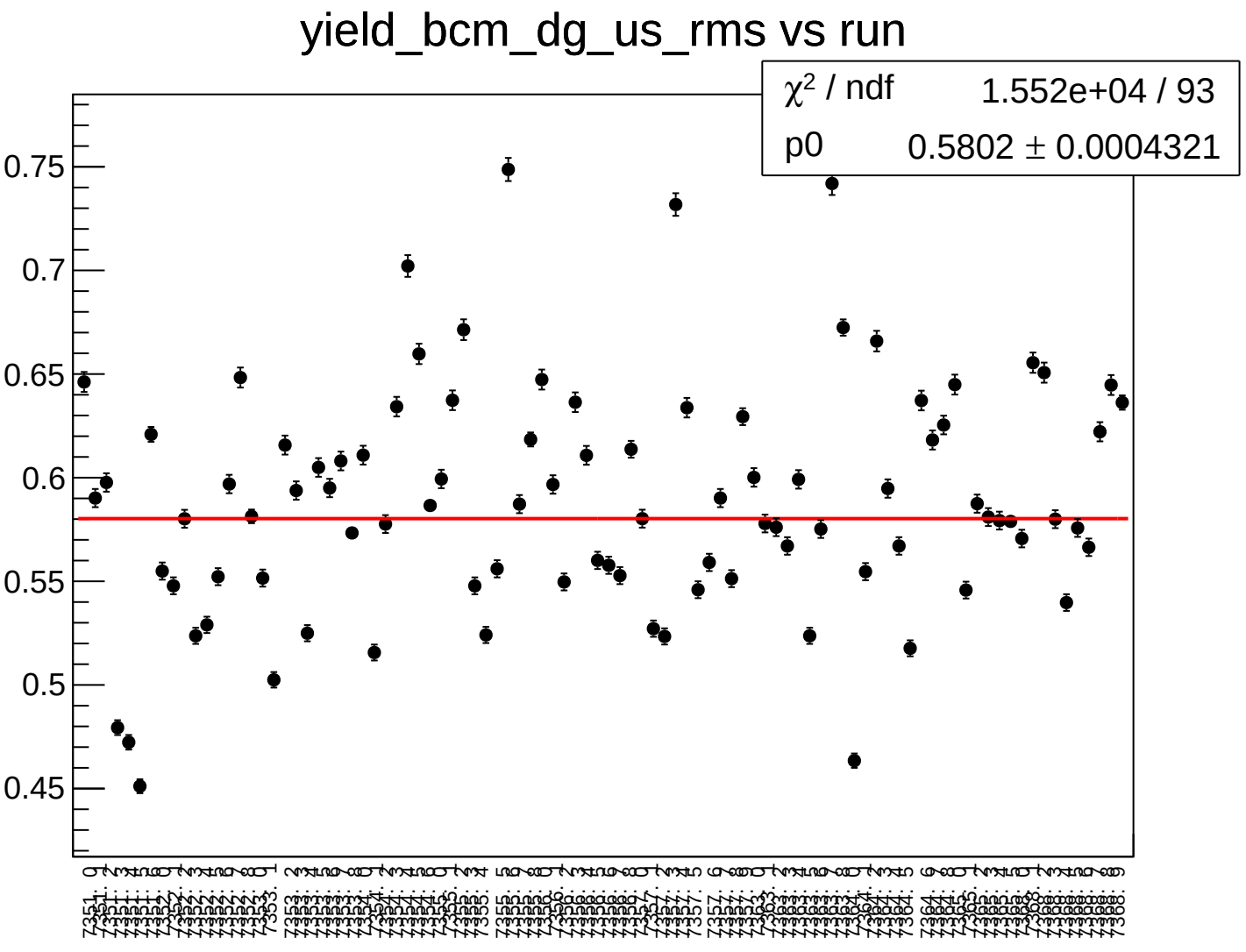

pull1D
Entries 94
Mean 0.6783
Std Dev 3.881
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

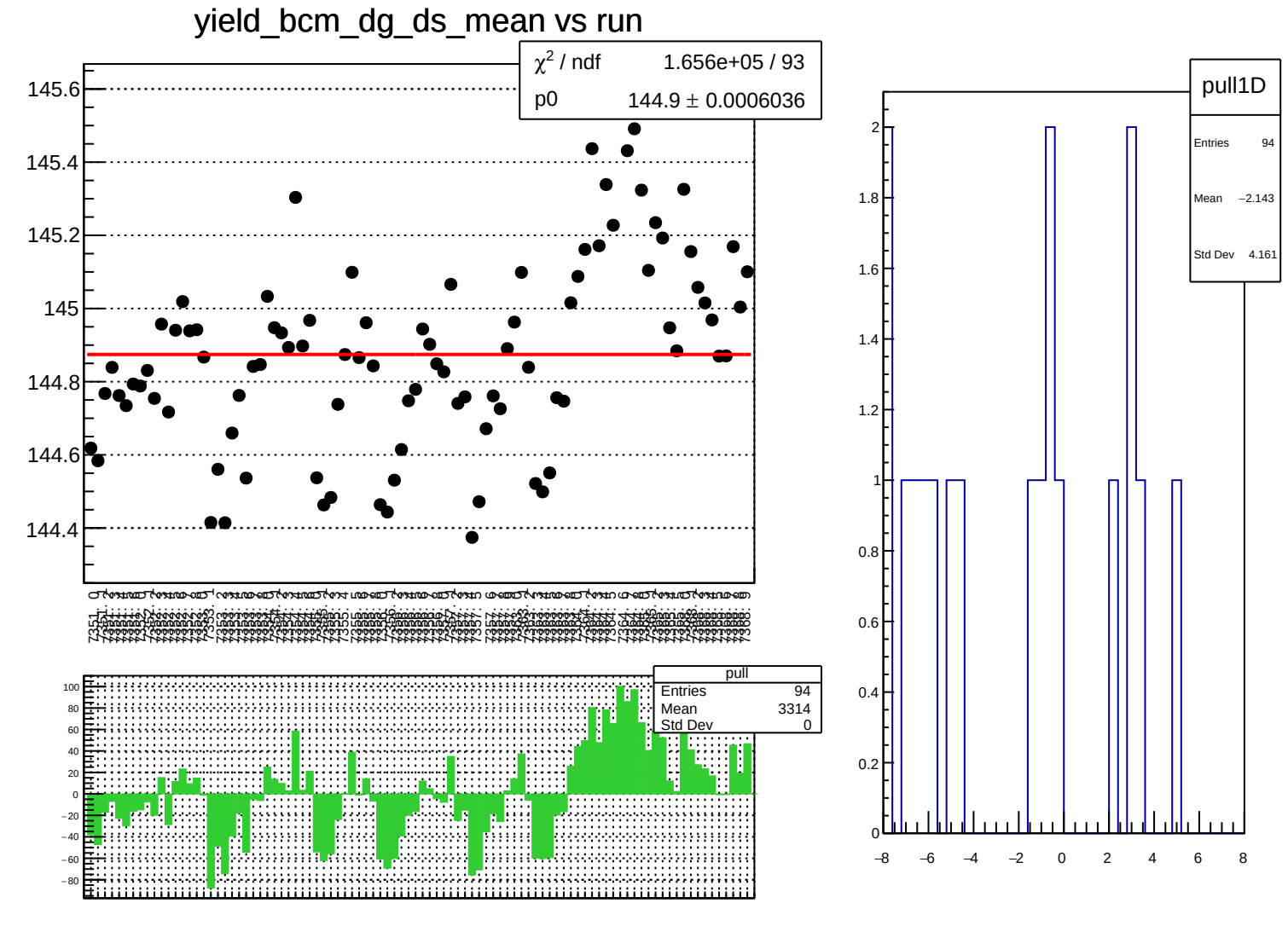

yield_bcm_an_ds3_rms vs run
χ² / ndf 1.589e+04 / 93
p0 0.5789 ± 0.0004311
0.75
0.7
0.65
0.6
0.55
0.5
0.45

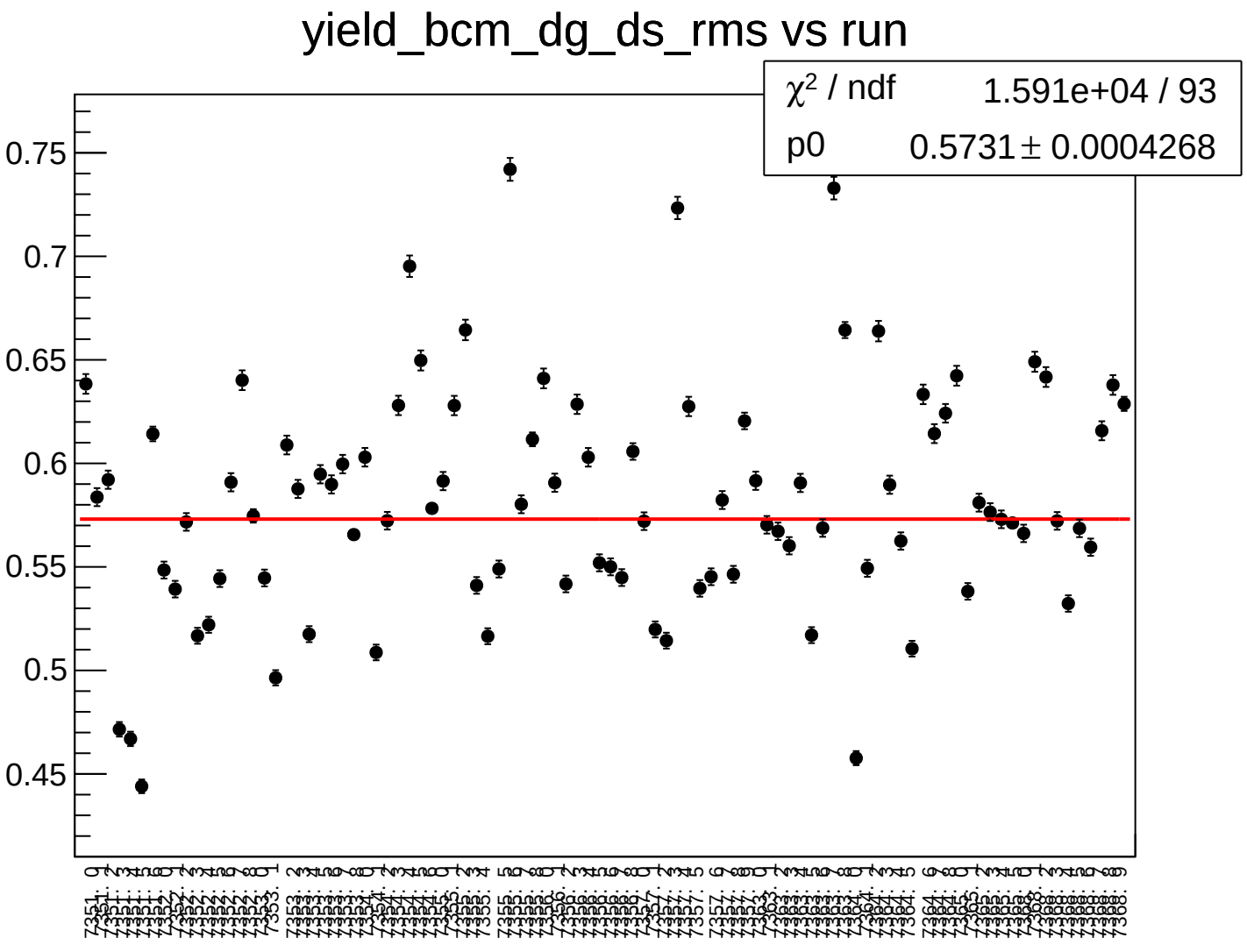

yield_bcm_an_us_mean vs run
χ² / ndf 1.127e+05 / 93
p0 147.7 ± 0.0006086
148.2
148
147.8
147.6
147.4
147.2
pull
Entries 94
Mean −3681
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
pull1D
Entries 94
Mean 0.664
Std Dev 4.687
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

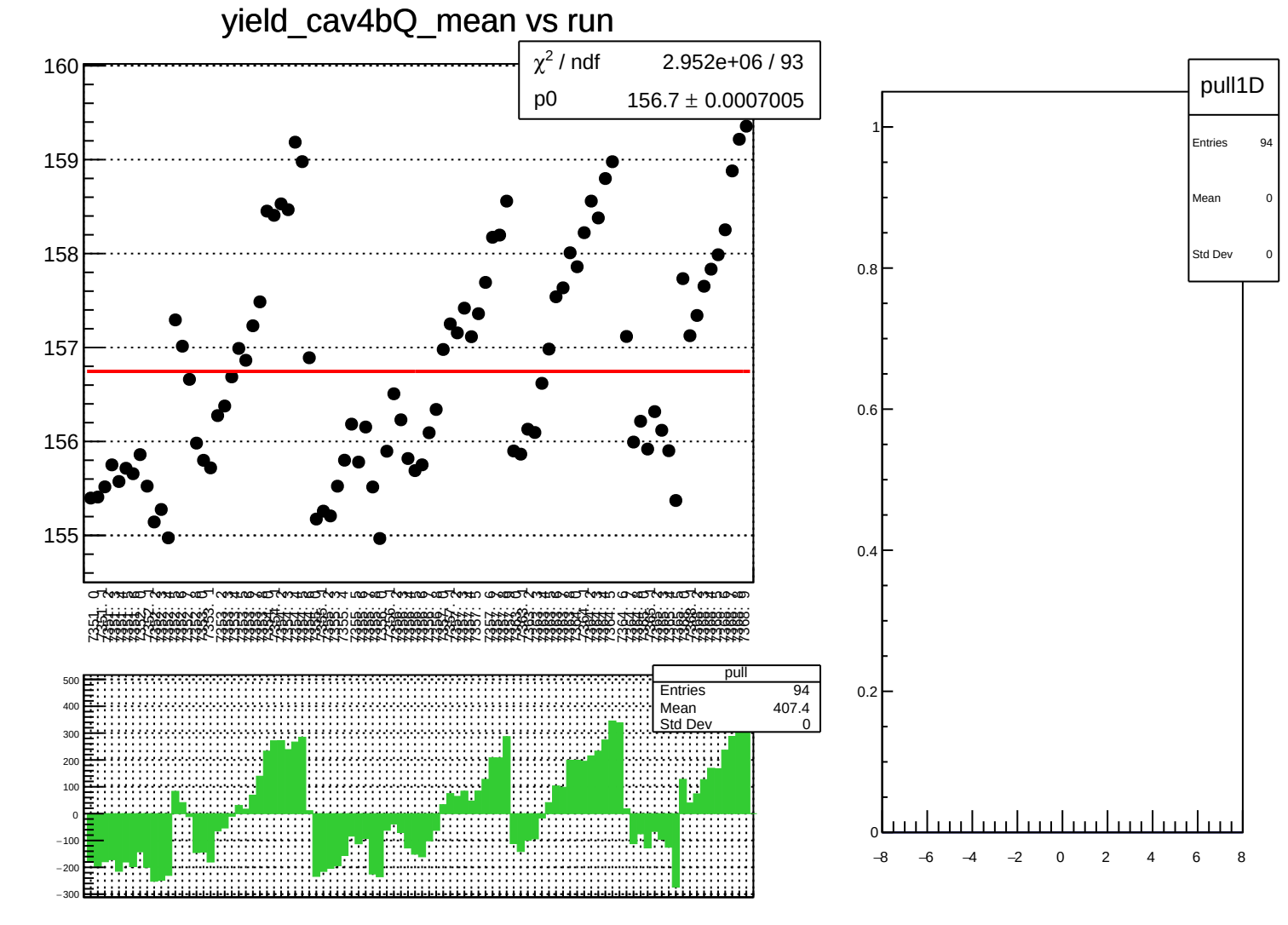

yield_bcm_an_us_rms vs run
χ² / ndf 1.575e+04 / 93
p0 0.5779 ± 0.0004304
0.75
0.7
0.65
0.6
0.55
0.5
0.45

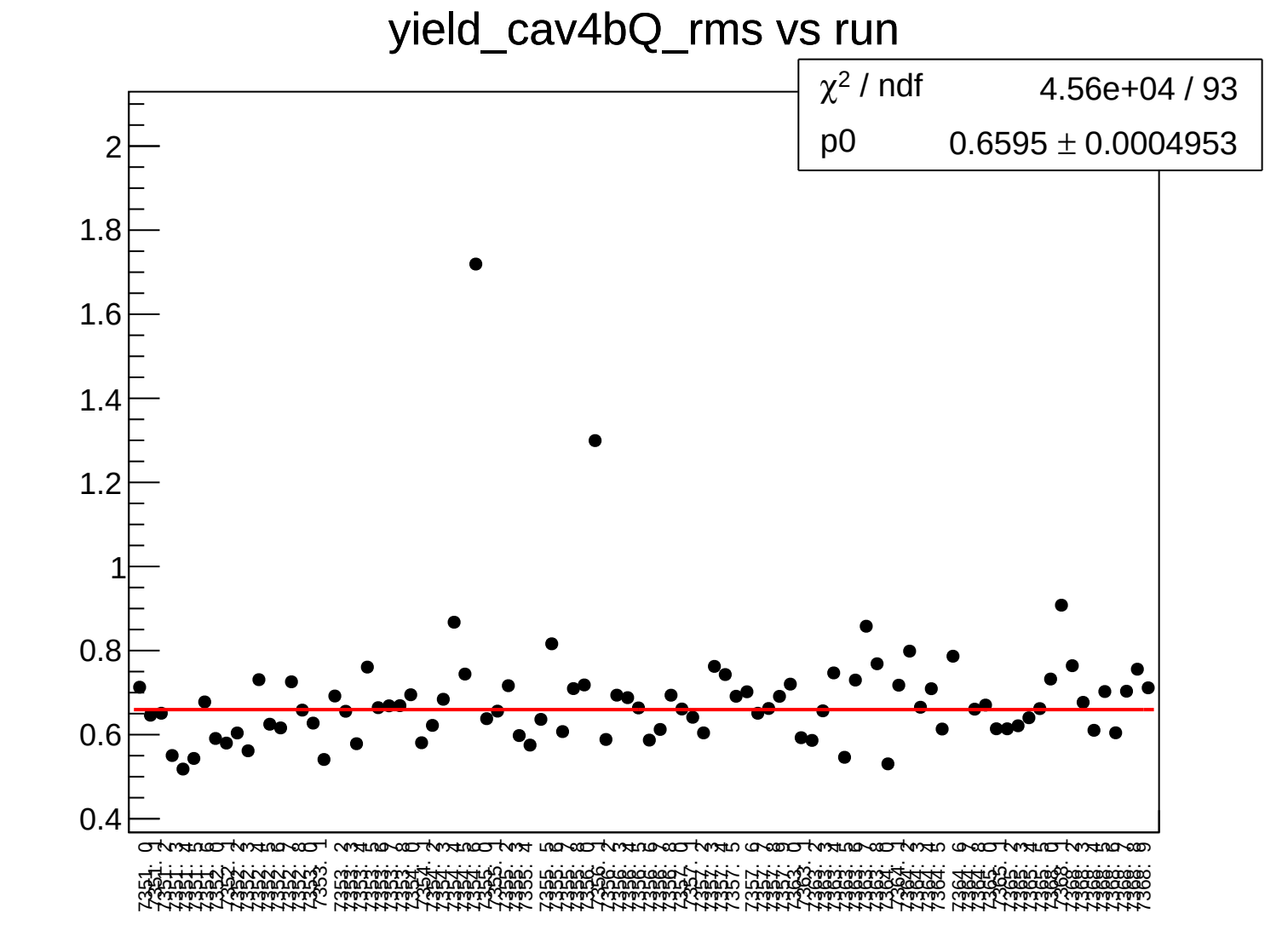

yield_bcm_dg_us_mean vs run
χ² / ndf 1.741e+05 / 93
p0 146.2 ± 0.0006111
147
146.8
146.6
146.4
146.2
146
145.8
145.6
pull
Entries 94
Mean 3562
Std Dev 0
100
50
0
−50
−100
pull1D
Entries 94
Mean −0.0008717
Std Dev 3.634
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

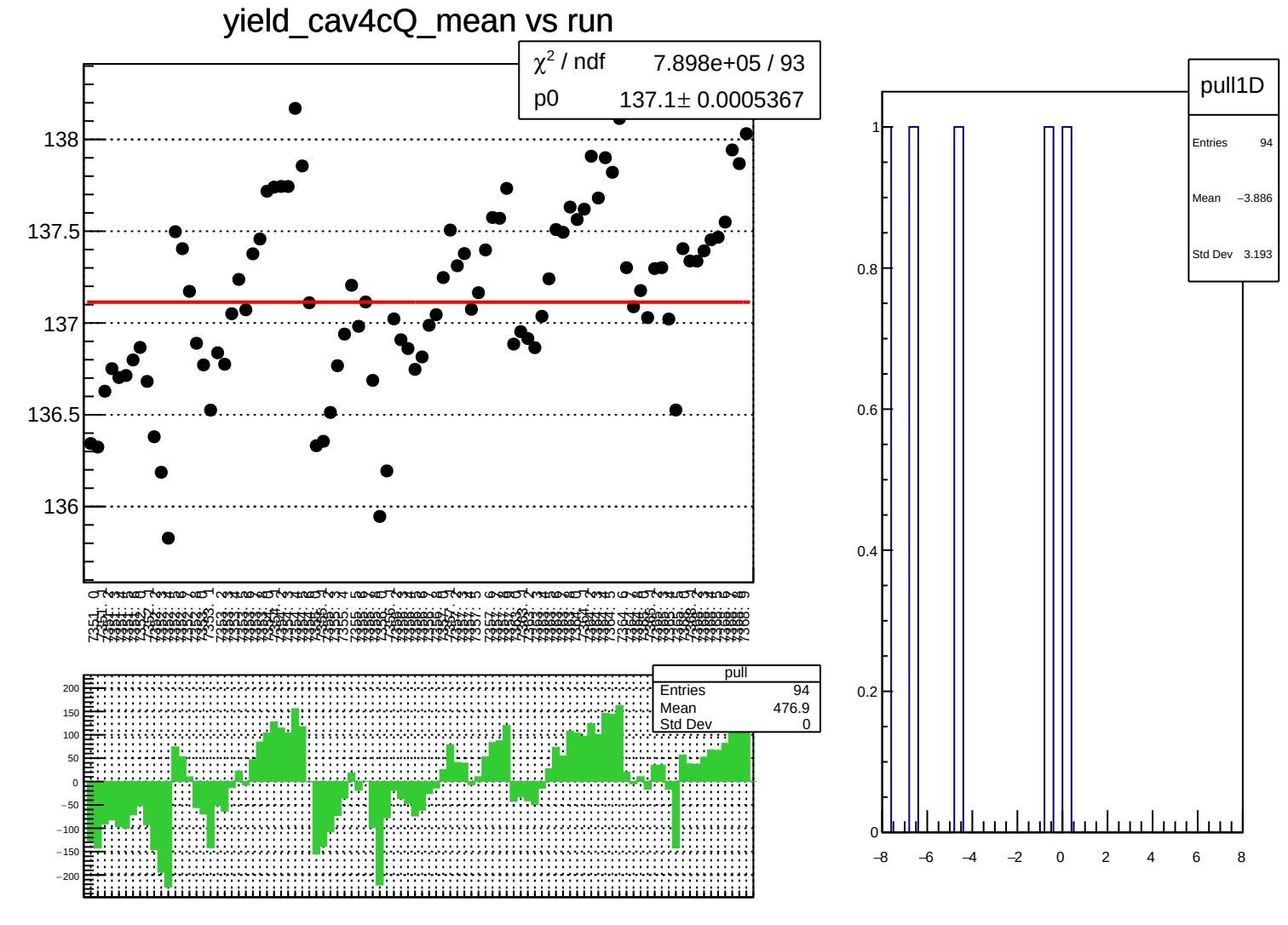

yield_bcm_dg_us_rms vs run
χ² / ndf 1.552e+04 / 93
p0 0.5802 ± 0.0004321
0.75
0.7
0.65
0.6
0.55
0.5
0.45

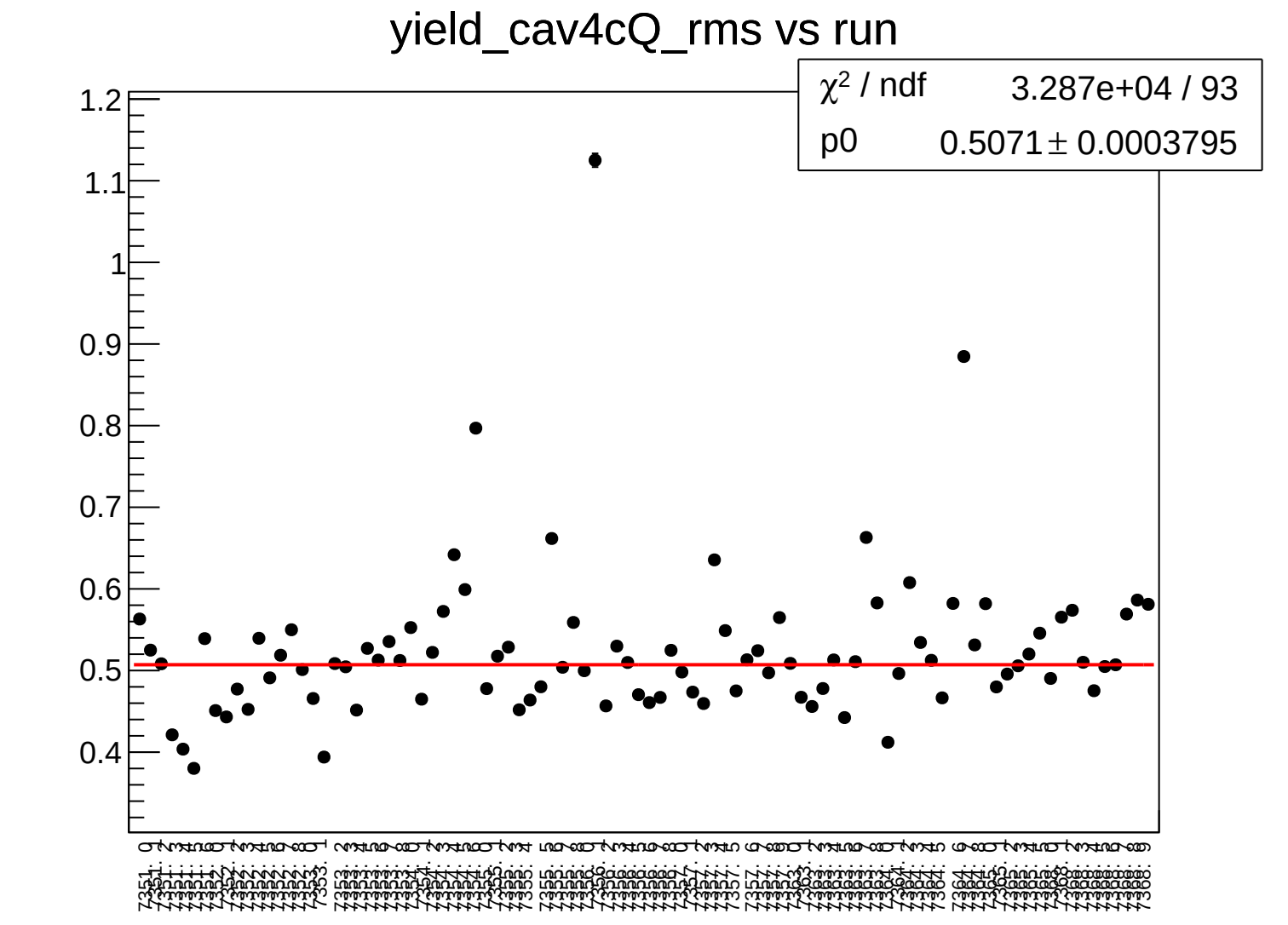

yield_bcm_dg_ds_mean vs run
χ² / ndf 1.656e+05 / 93
p0 144.9 ± 0.0006036
145.6
145.4
145.2
145
144.8
144.6
144.4
pull
Entries 94
Mean 3314
Std Dev 0
100
80
60
40
20
0
−20
−40
−60
−80
pull1D
Entries 94
Mean −2.143
Std Dev 4.161
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

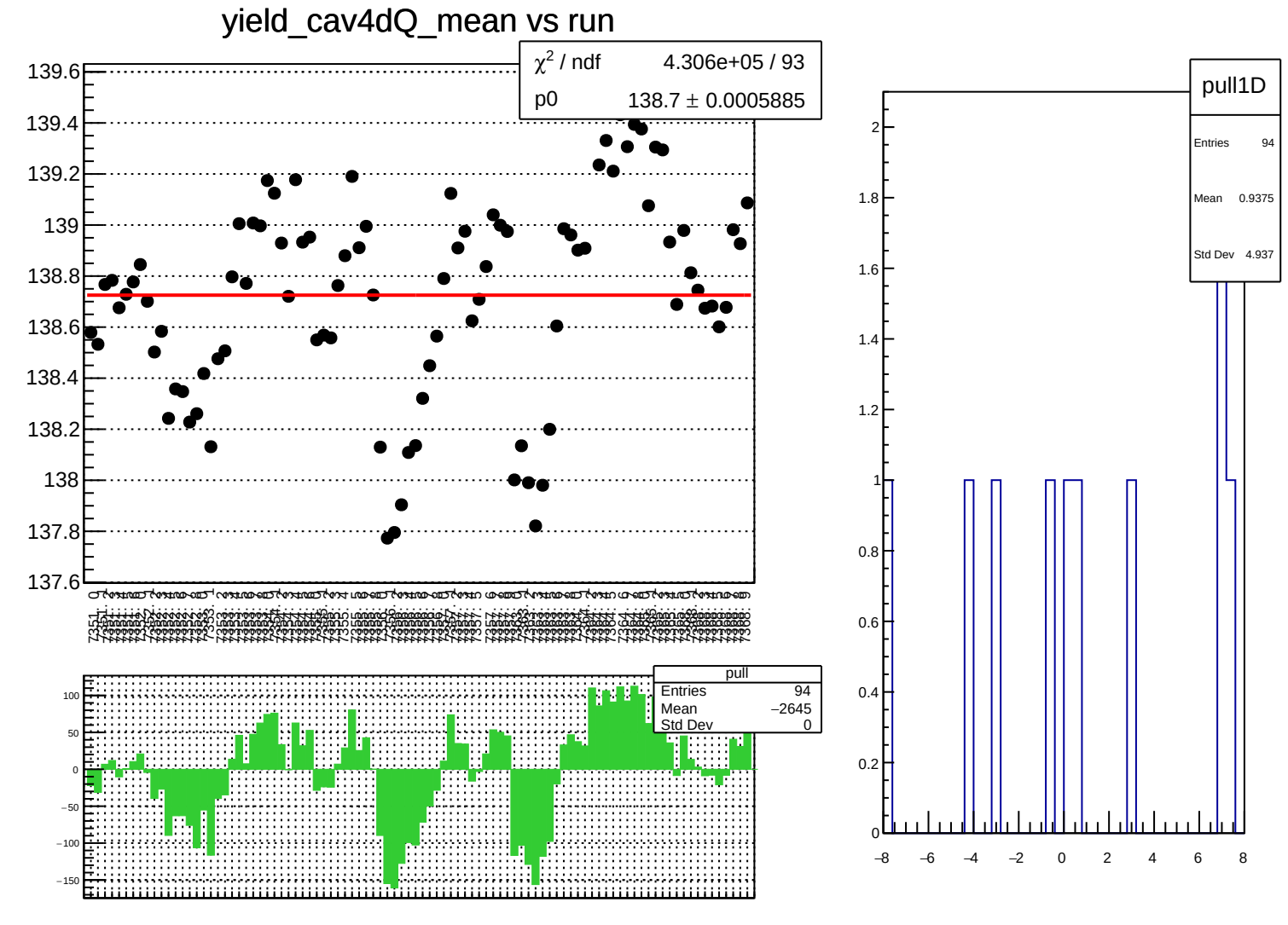

yield_bcm_dg_ds_rms vs run
χ² / ndf 1.591e+04 / 93
p0 0.5731 ± 0.0004268
0.75
0.7
0.65
0.6
0.55
0.5
0.45

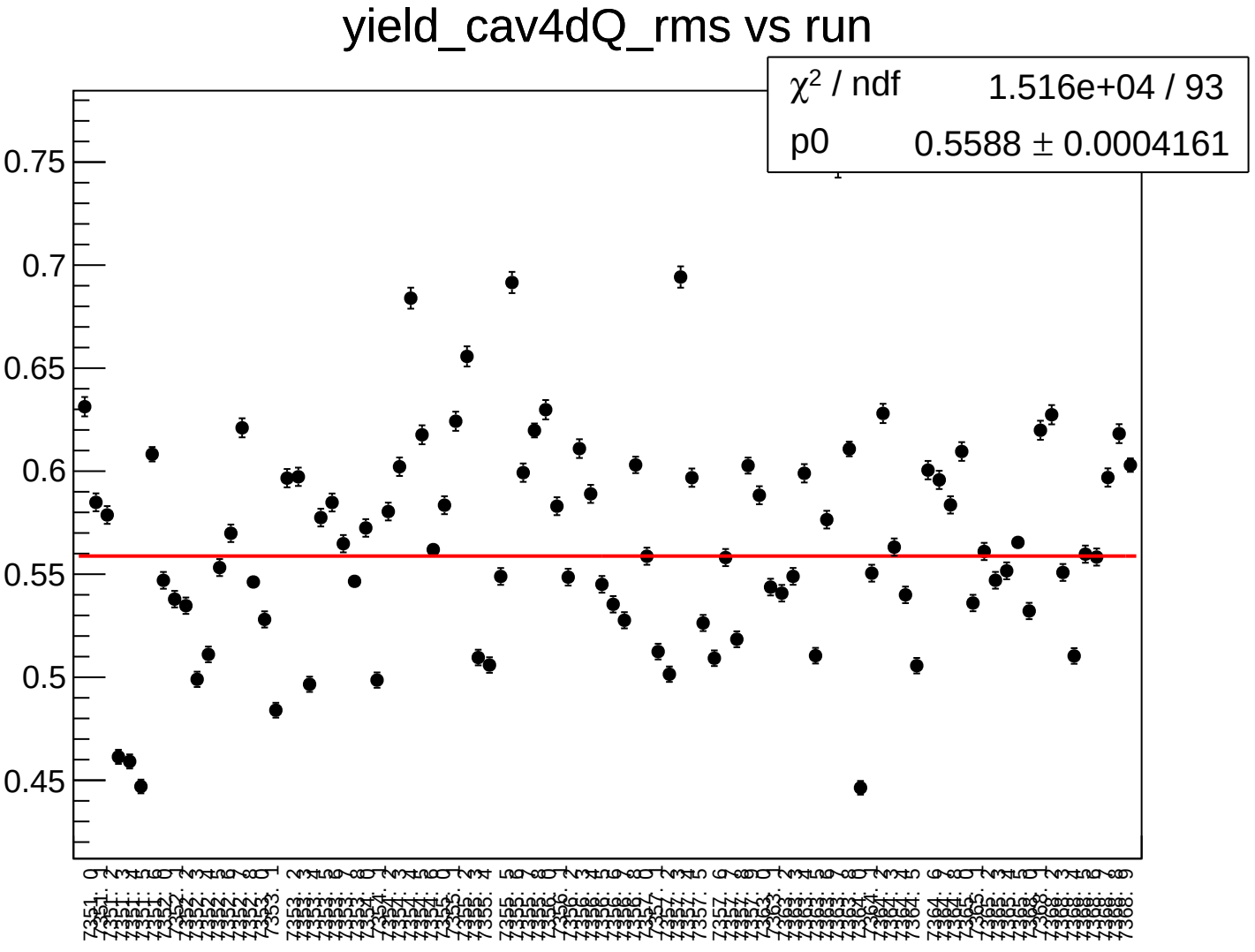

yield_cav4bQ_mean vs run
χ² / ndf 2.952e+06 / 93
p0 156.7 ± 0.0007005
160
159
158
157
156
155
pull
Entries 94
Mean 407.4
Std Dev 0
500
400
300
200
100
0
−100
−200
−300
pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

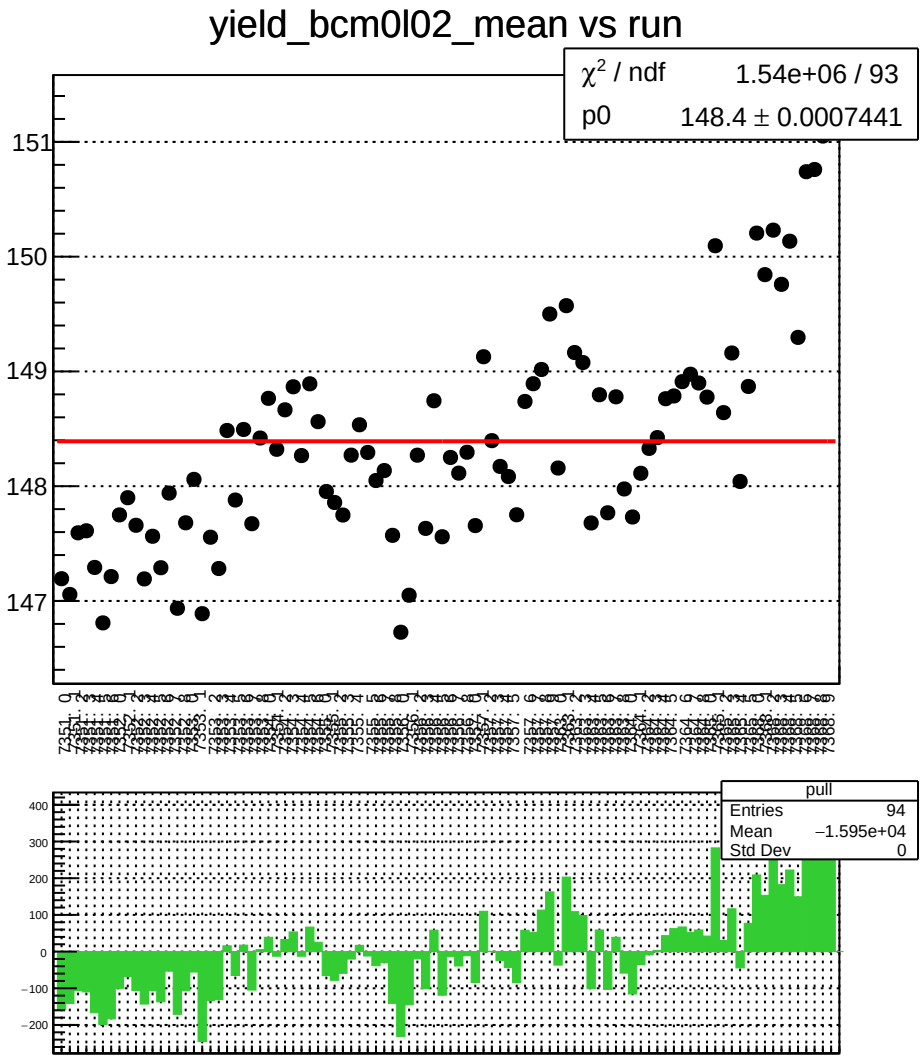

yield_cav4bQ_rms vs run
χ² / ndf 4.56e+04 / 93
p0 0.6595 ± 0.0004953
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4

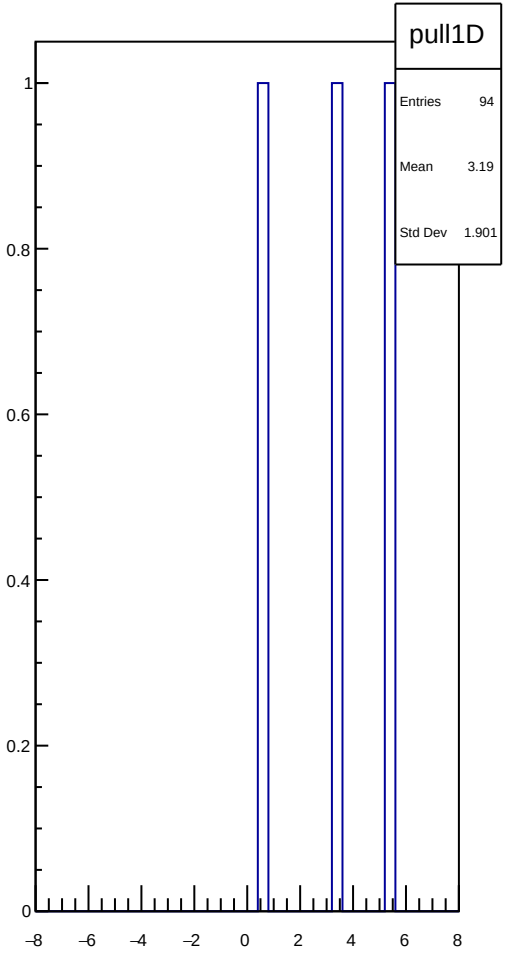

yield_cav4cQ_mean vs run
χ² / ndf 7.898e+05 / 93
p0 137.1± 0.0005367
138
137.5
137
136.5
136
pull
Entries 94
Mean 476.9
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200
pull1D
Entries 94
Mean −3.886
Std Dev 3.193
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

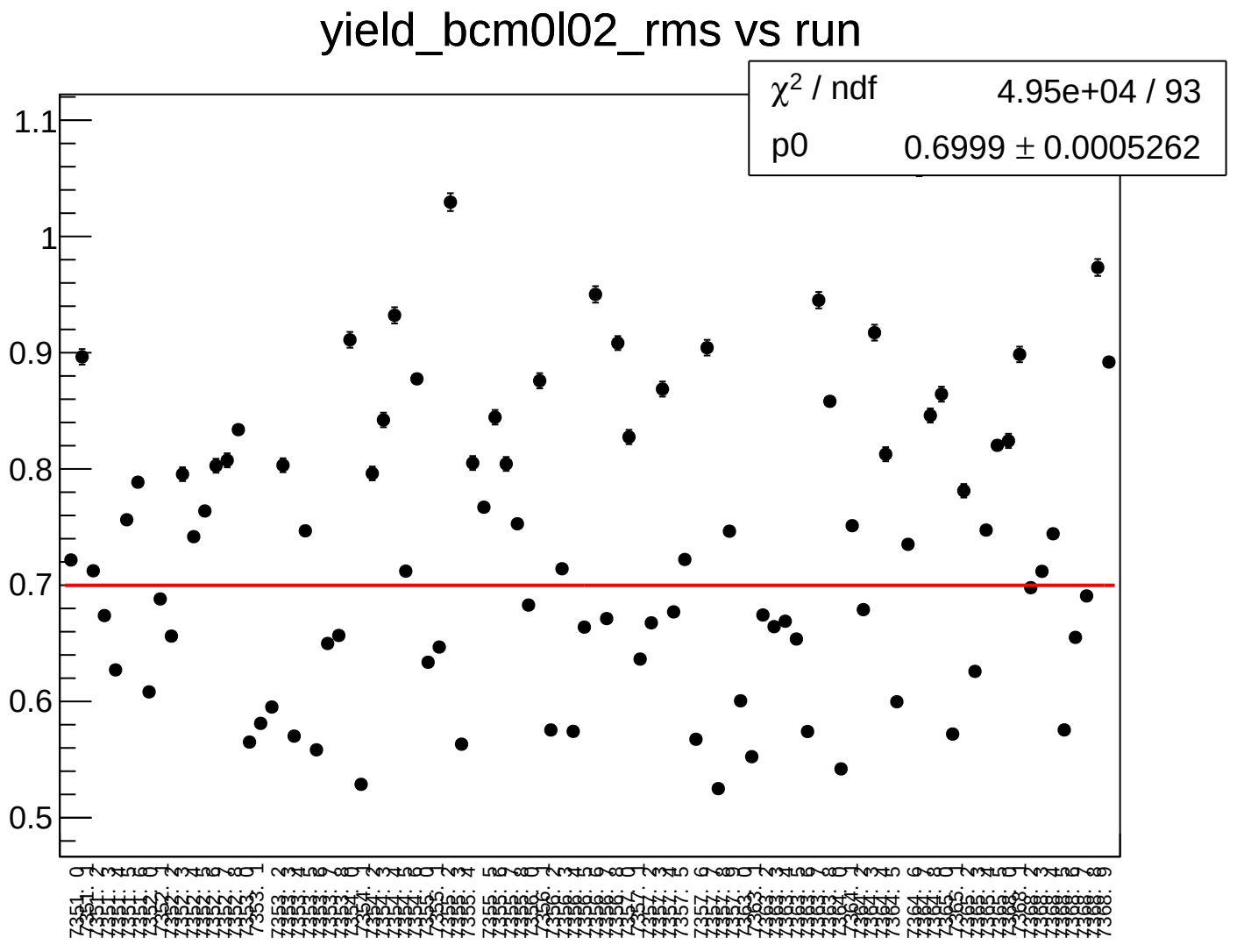

yield_cav4cQ_rms vs run
χ² / ndf 3.287e+04 / 93
p0 0.5071 ± 0.0003795
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4

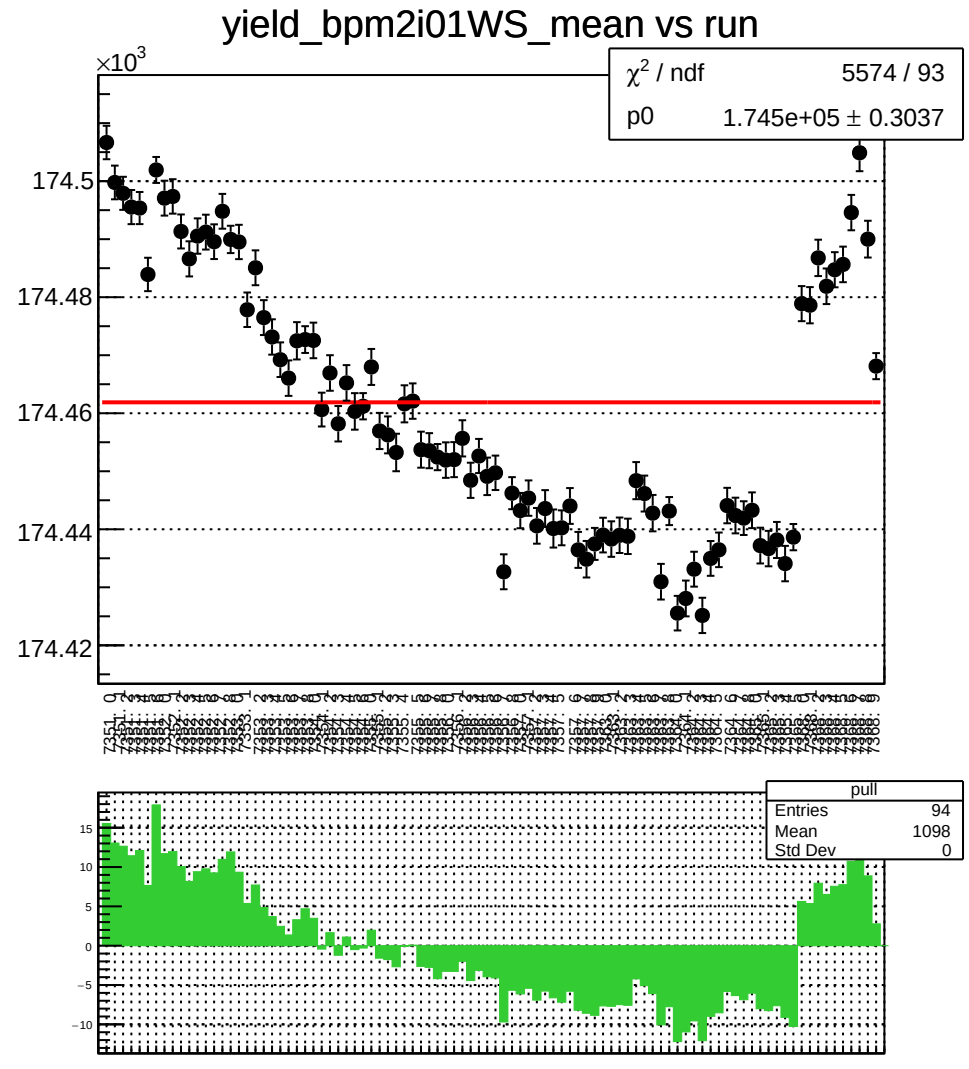

yield_cav4dQ_mean vs run
χ² / ndf 4.306e+05 / 93
p0 138.7 ± 0.0005885
pull
Entries 94
Mean −2645
Std Dev 0
pull1D
Entries 94
Mean 0.9375
Std Dev 4.937

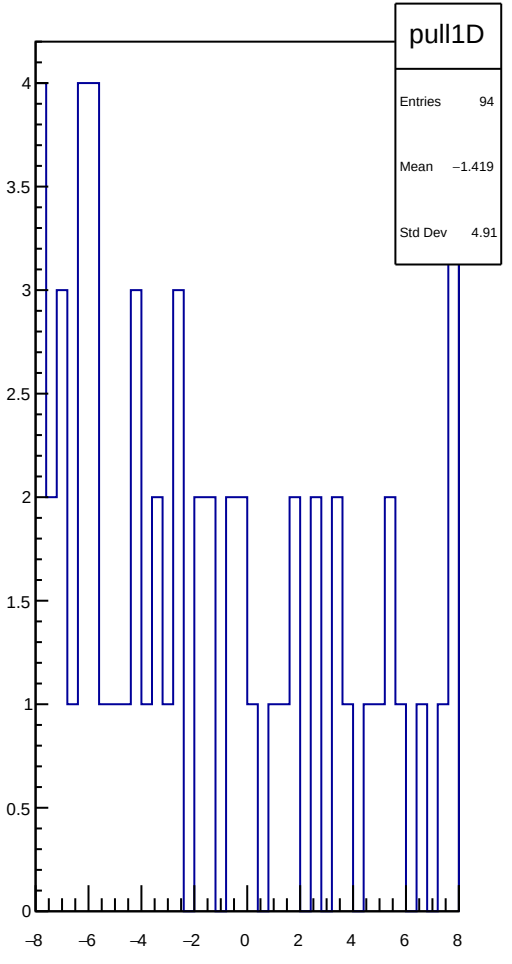

yield_cav4dQ_rms vs run
χ² / ndf 1.516e+04 / 93
p0 0.5588 ± 0.0004161
0.75
0.7
0.65
0.6
0.55
0.5
0.45

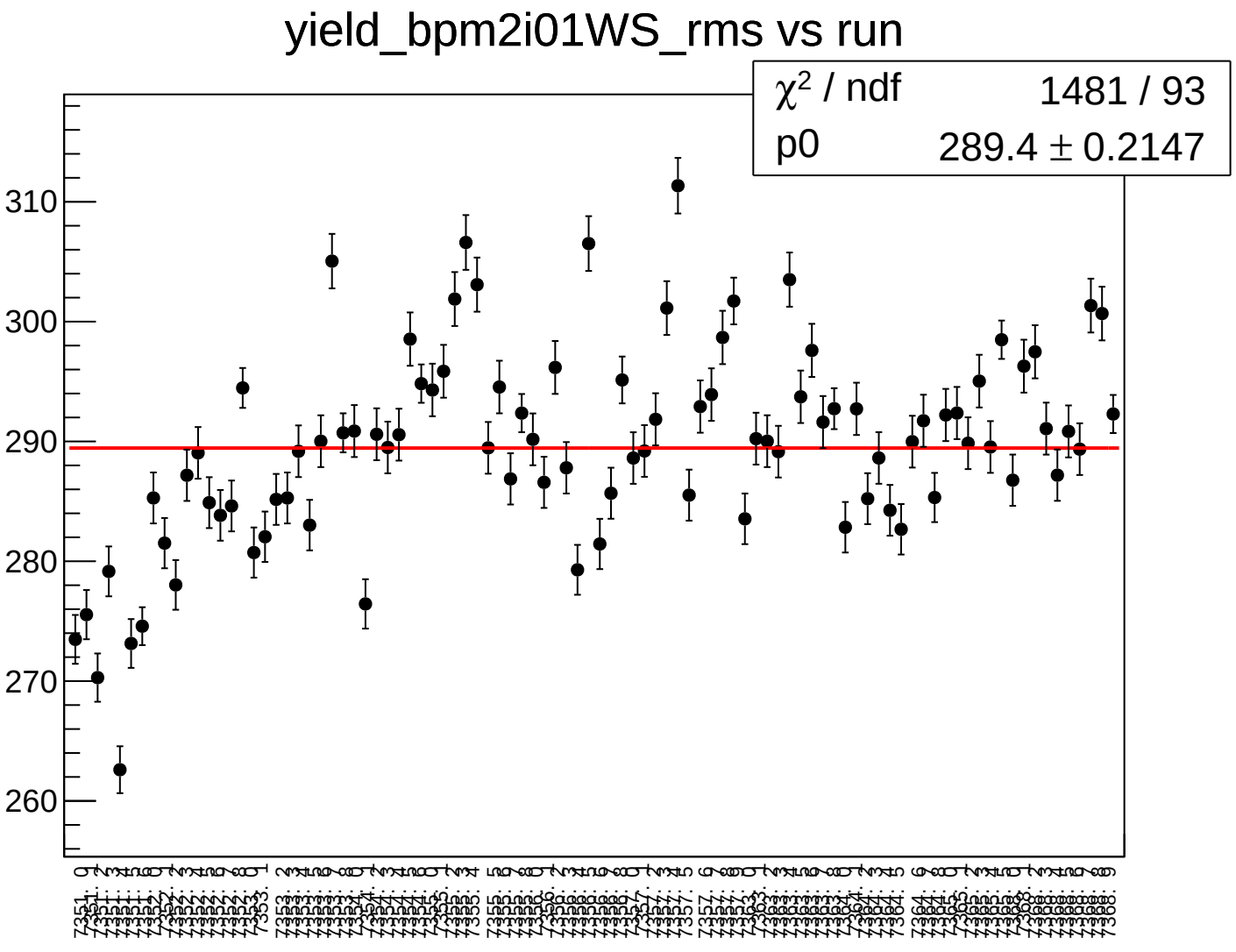

yield_bcm0l02_mean vs run
χ² / ndf 1.54e+06 / 93
p0 148.4 ± 0.0007441
151
150
149
148
147
pull
Entries 94
Mean −1.595e+04
Std Dev 0
400
300
200
100
0
−100
−200

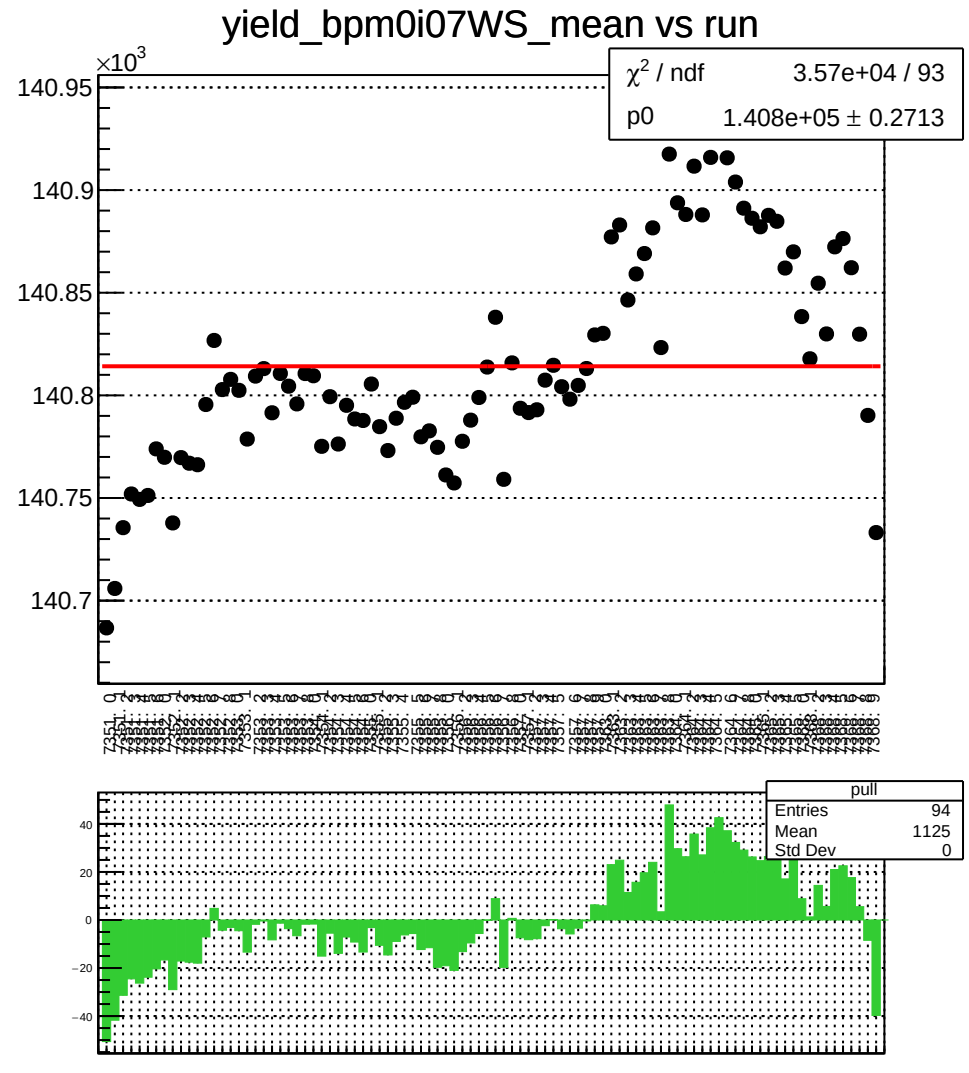

pull1D
Entries 94
Mean 3.19
Std Dev 1.901
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

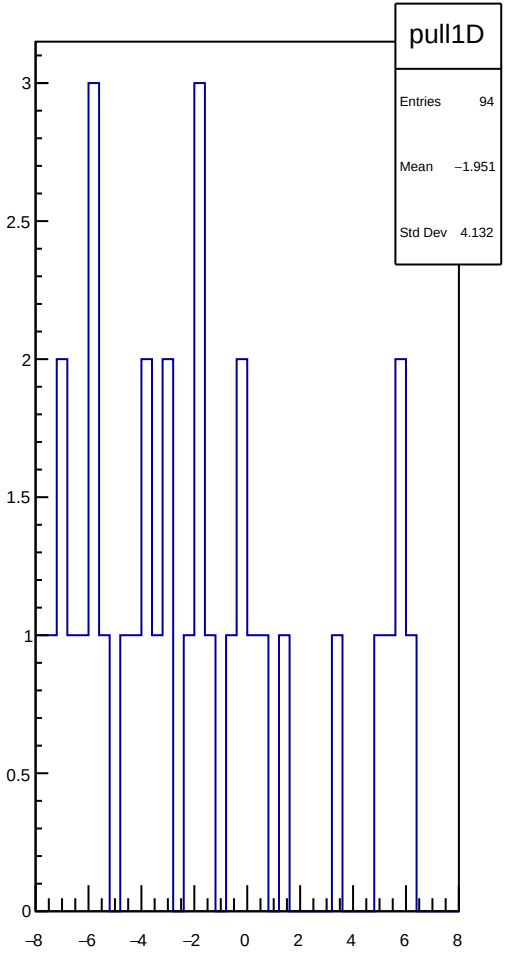

yield_bcm0l02_rms vs run
χ^2 / ndf 4.95e+04 / 93
p0 0.6999 ± 0.0005262
1.1
1
0.9
0.8
0.7
0.6
0.5

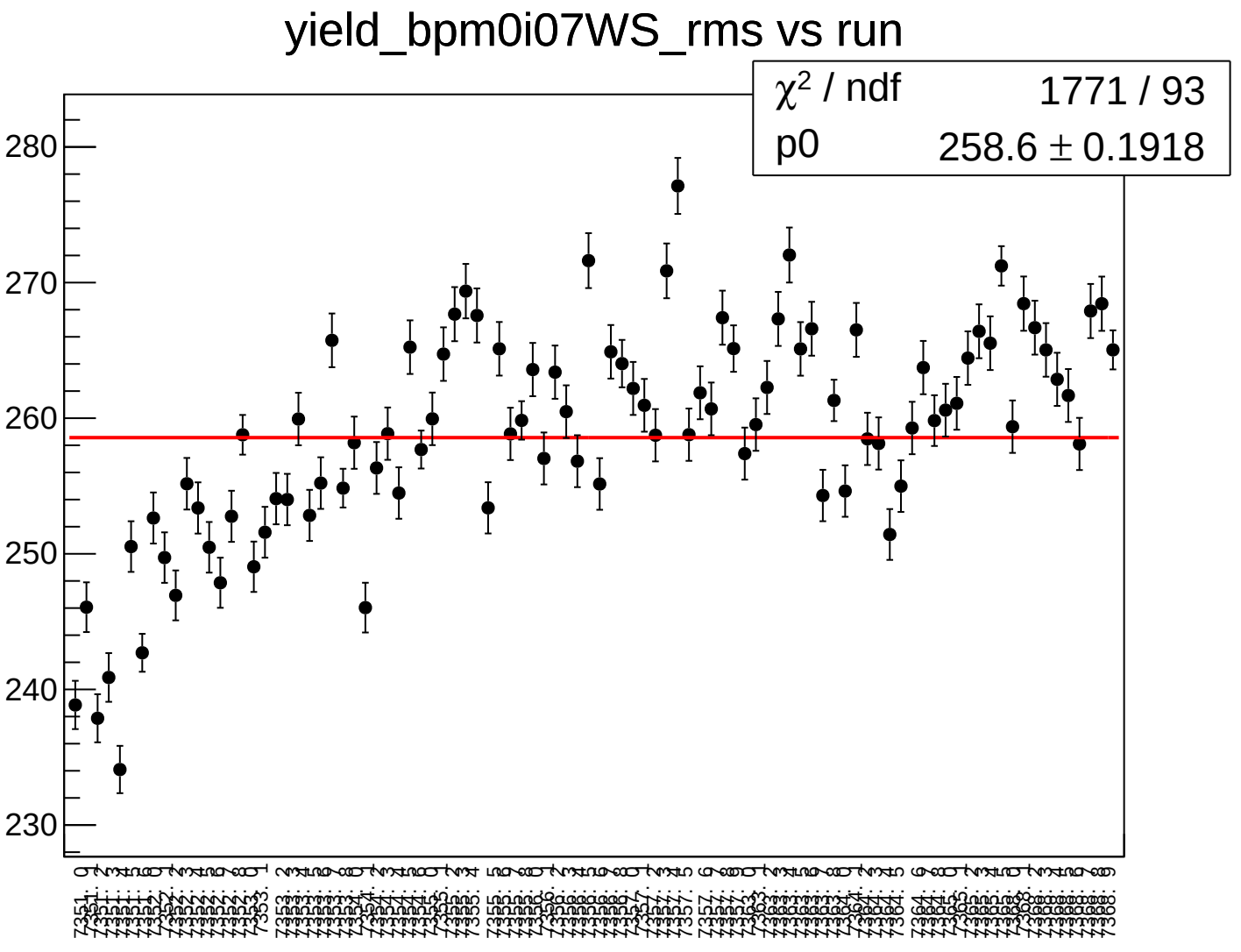

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 5574 / 93
p0 1.745e+05 ± 0.3037
174.5
174.48
174.46
174.44
174.42
pull
Entries 94
Mean 1098
Std Dev 0
15
10
5
0
−5
−10

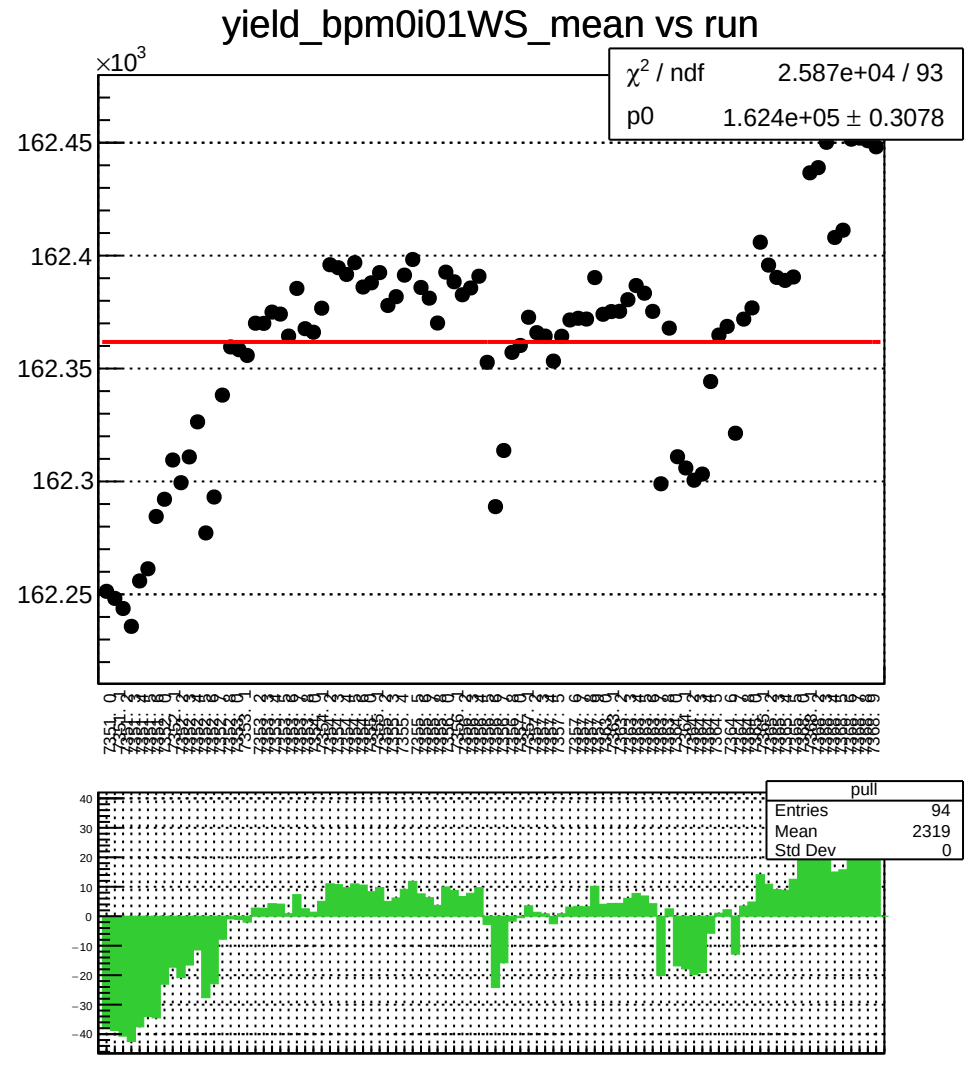

pull1D
Entries 94
Mean −1.419
Std Dev 4.91
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

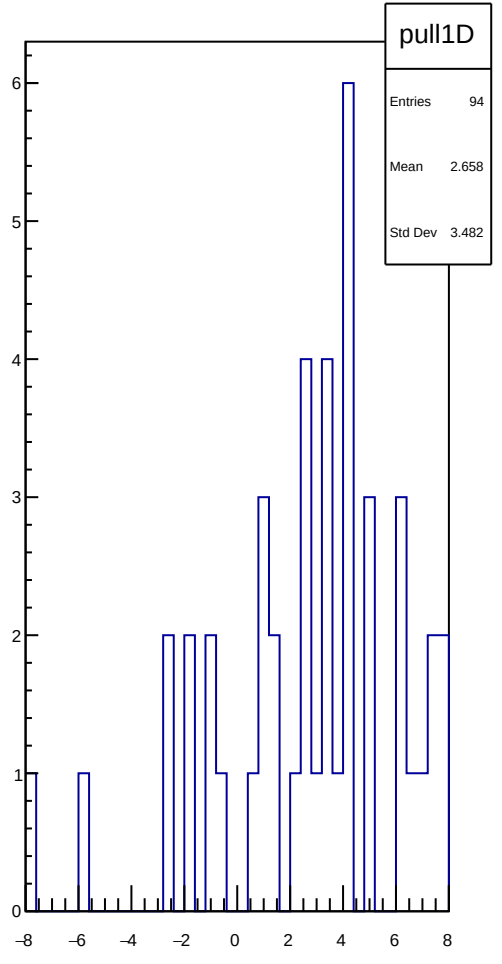

yield_bpm2i01WS_rms vs run
χ² / ndf 1481 / 93
p0 289.4 ± 0.2147
310
300
290
280
270
260

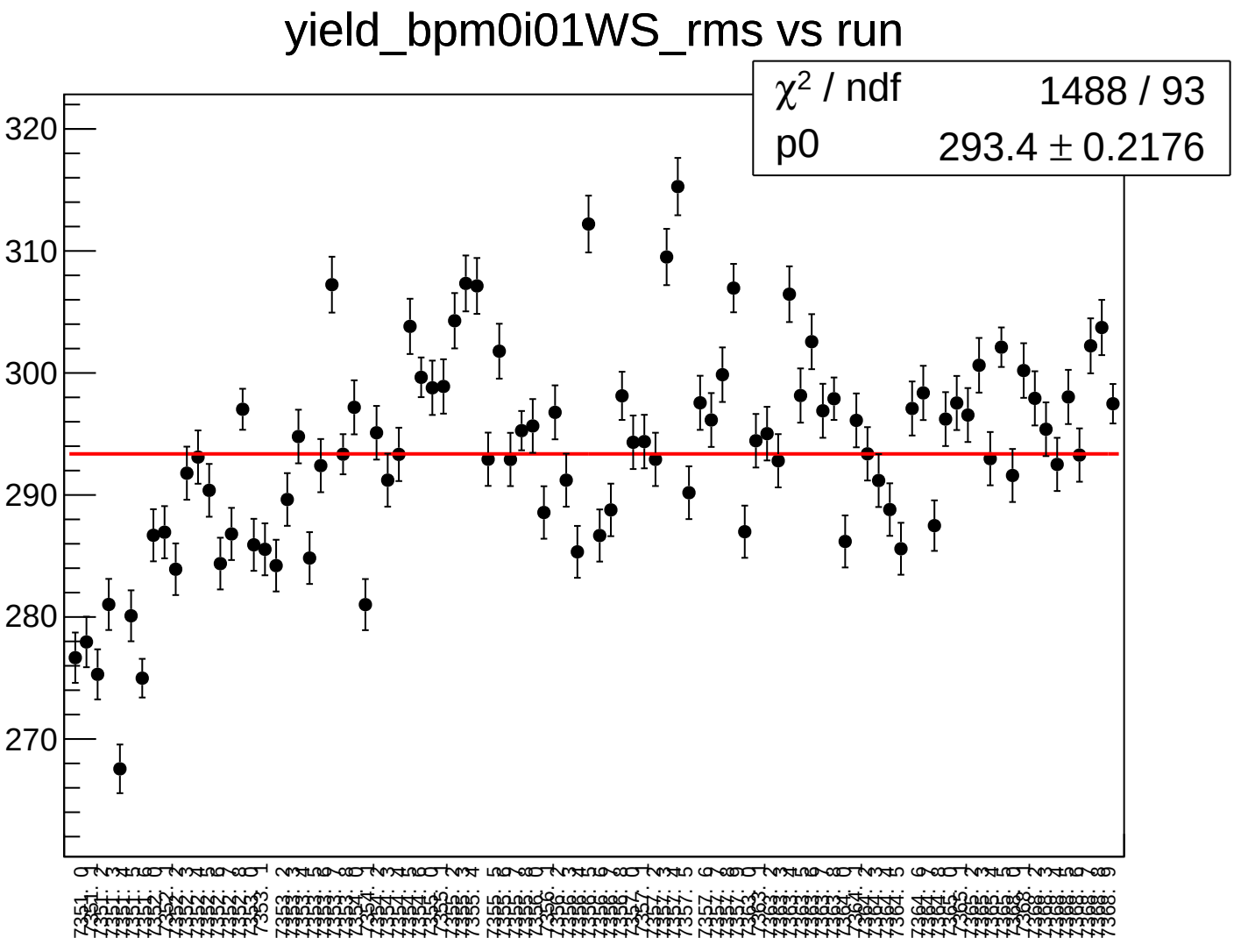

yield_bpm0i07WS_mean vs run
×10^3
140.95
140.9
140.85
140.8
140.75
140.7
χ² / ndf 3.57e+04 / 93
p0 1.408e+05 ± 0.2713
pull
Entries 94
Mean 1125
Std Dev 0
40
20
0
−20
−40

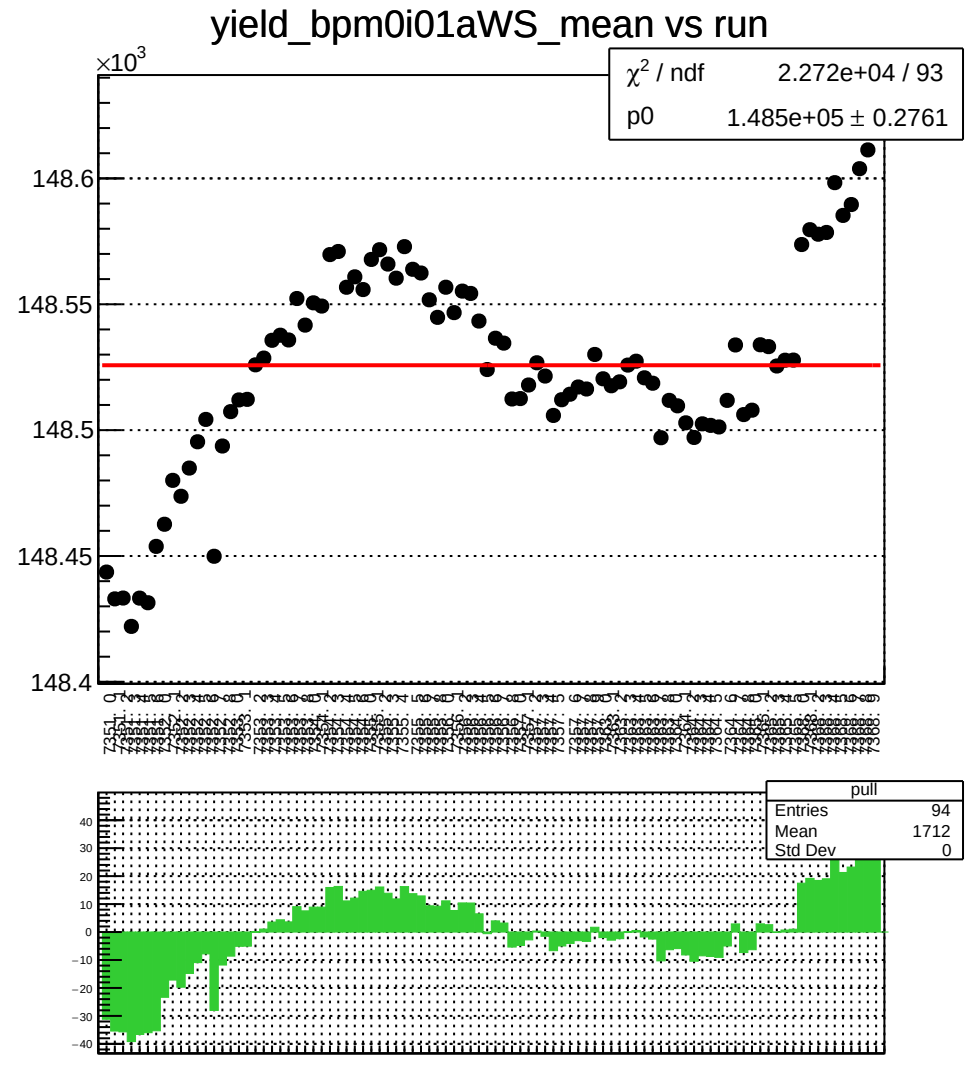

pull1D
Entries 94
Mean −1.951
Std Dev 4.132
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

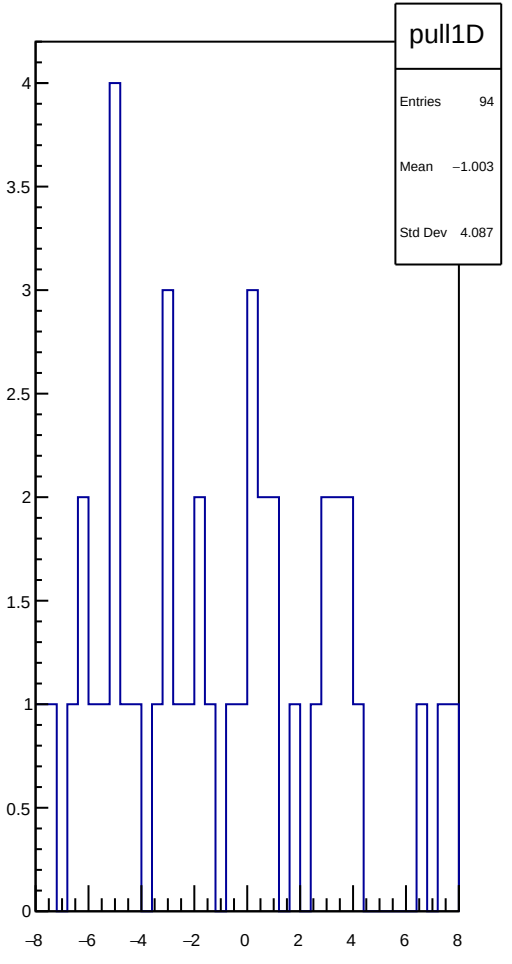

yield_bpm0i07WS_rms vs run
χ² / ndf 1771 / 93
p0 258.6 ± 0.1918
280
270
260
250
240
230

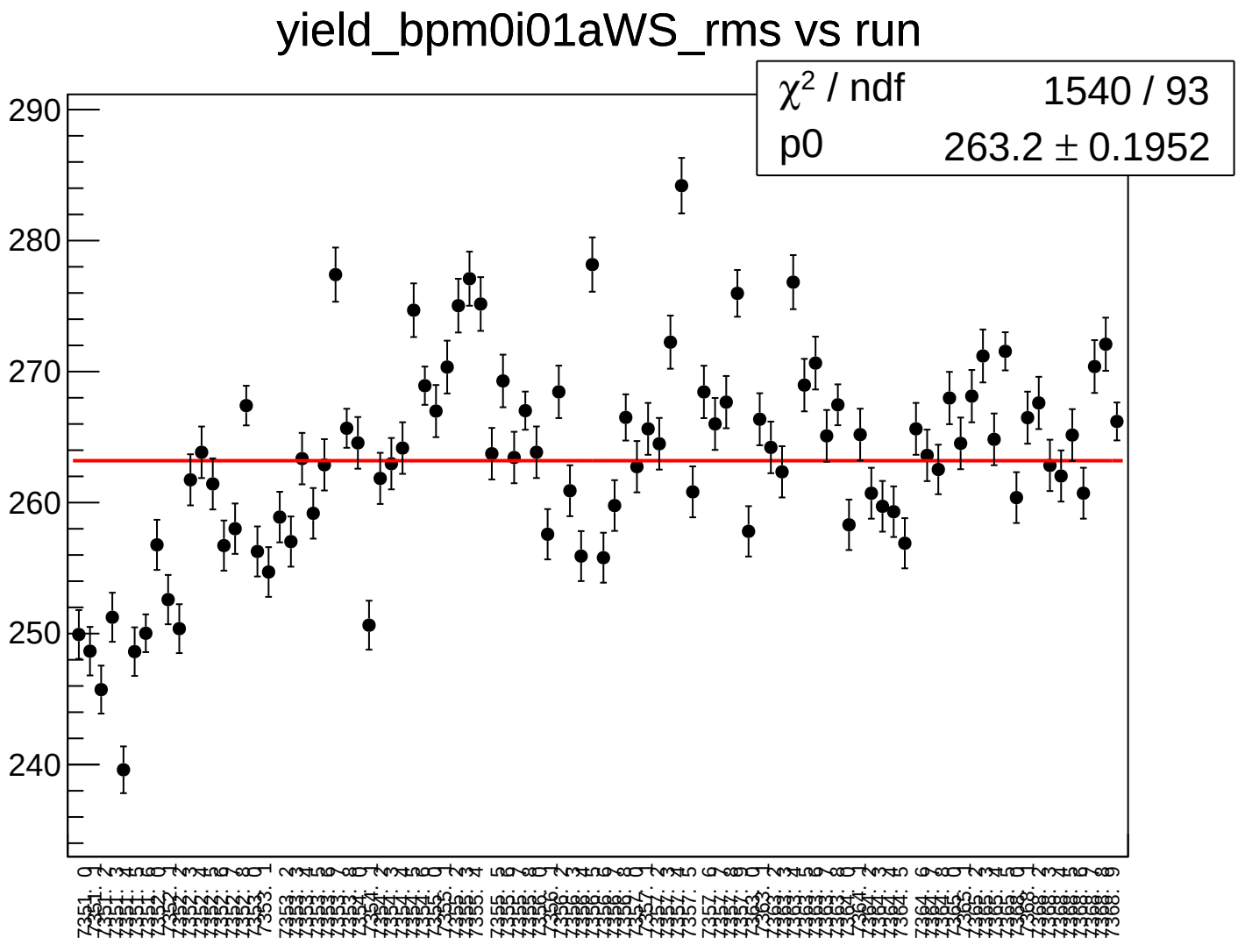

yield_bpm0i01WS_mean vs run
×10^3
χ² / ndf 2.587e+04 / 93
p0 1.624e+05 ± 0.3078
162.45
162.4
162.35
162.3
162.25
pull
Entries 94
Mean 2319
Std Dev 0
40
30
20
10
0
−10
−20
−30
−40

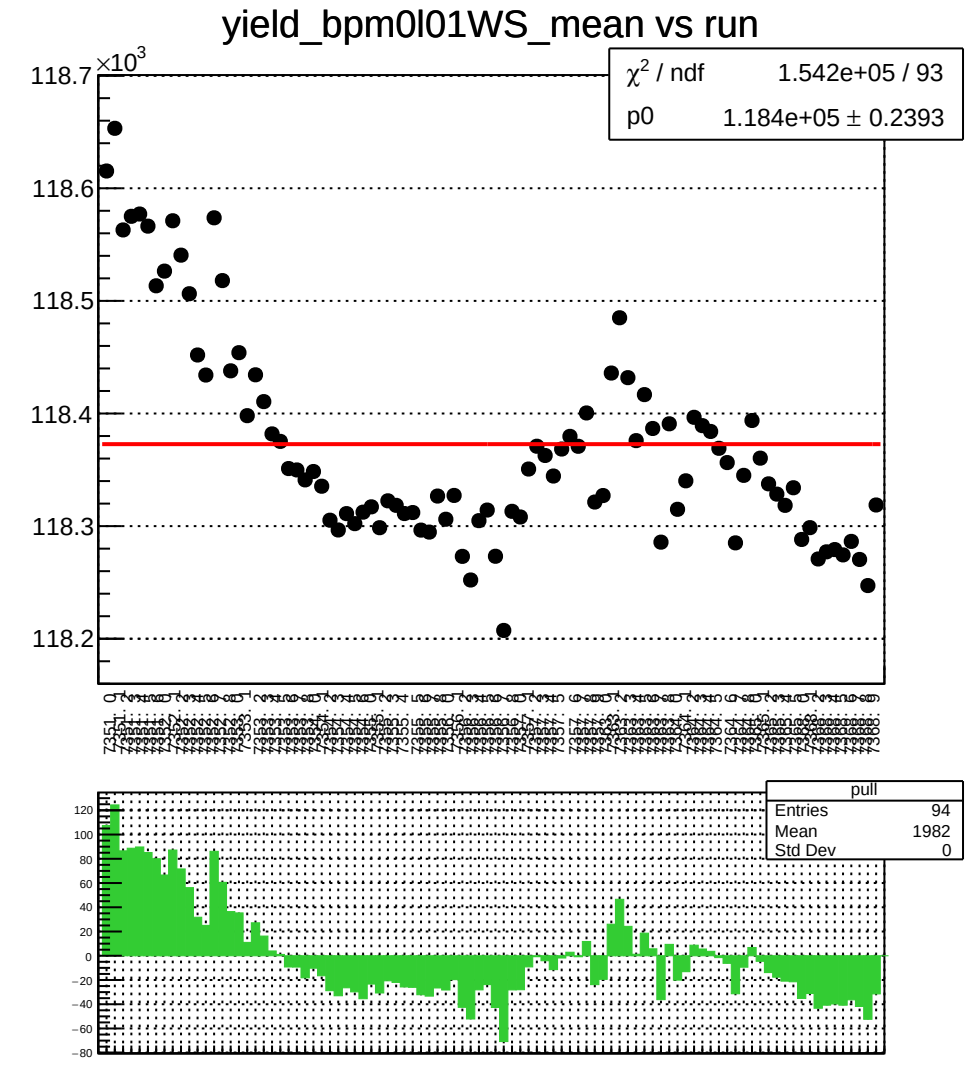

pull1D
Entries 94
Mean 2.658
Std Dev 3.482
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

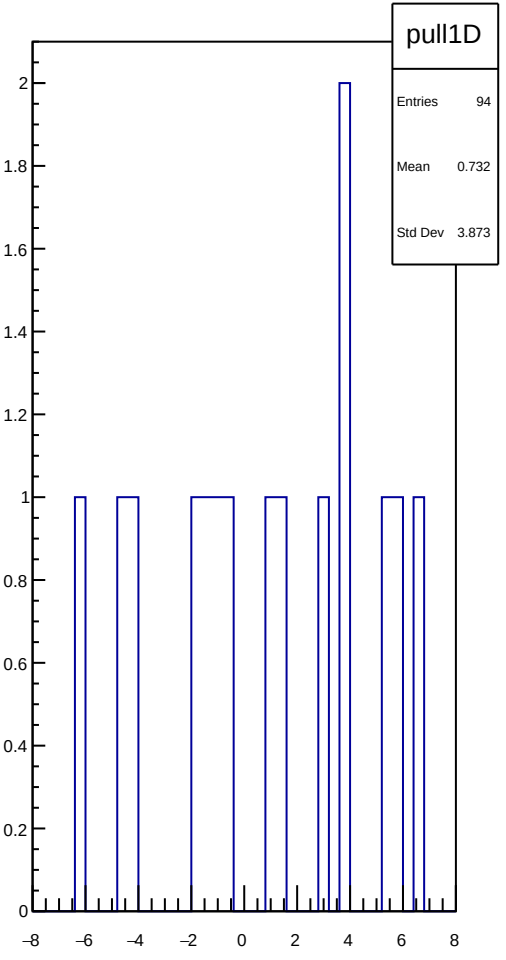

yield_bpm0i01WS_rms vs run
χ² / ndf 1488 / 93
p0 293.4 ± 0.2176
320
310
300
290
280
270

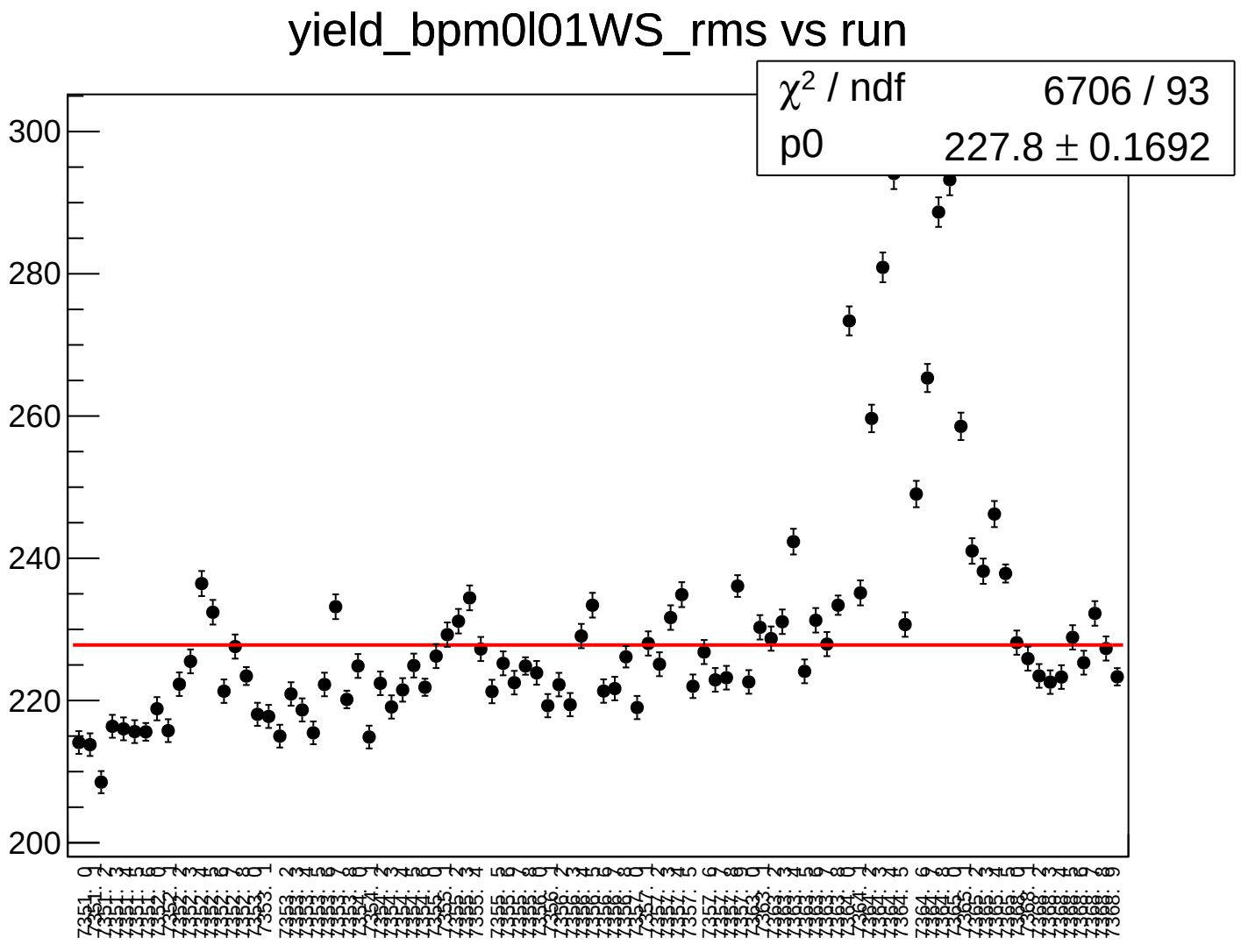

yield_bpm0i01aWS_mean vs run
×10^3
χ² / ndf 2.272e+04 / 93
p0 1.485e+05 ± 0.2761
148.6
148.55
148.5
148.45
148.4
pull
Entries 94
Mean 1712
Std Dev 0
40
30
20
10
0
−10
−20
−30
−40

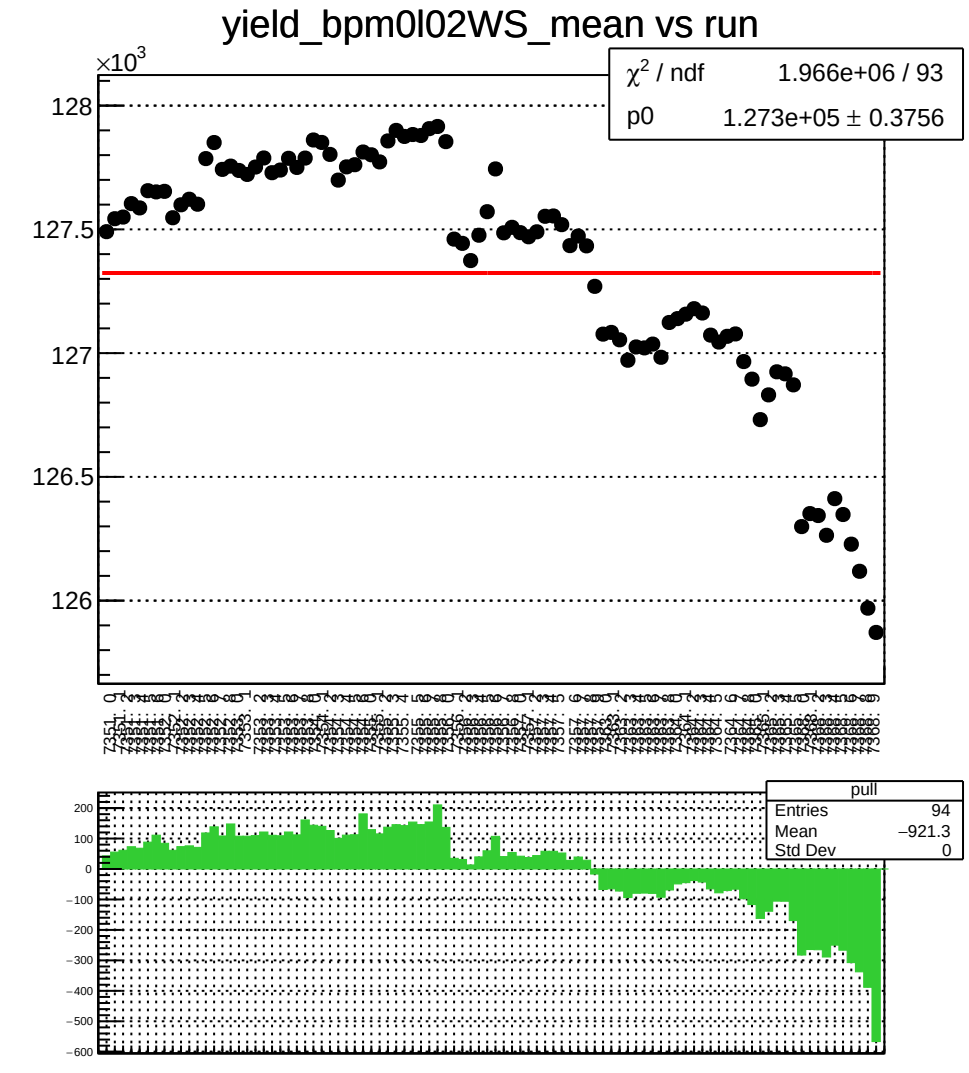

pull1D
Entries 94
Mean −1.003
Std Dev 4.087
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

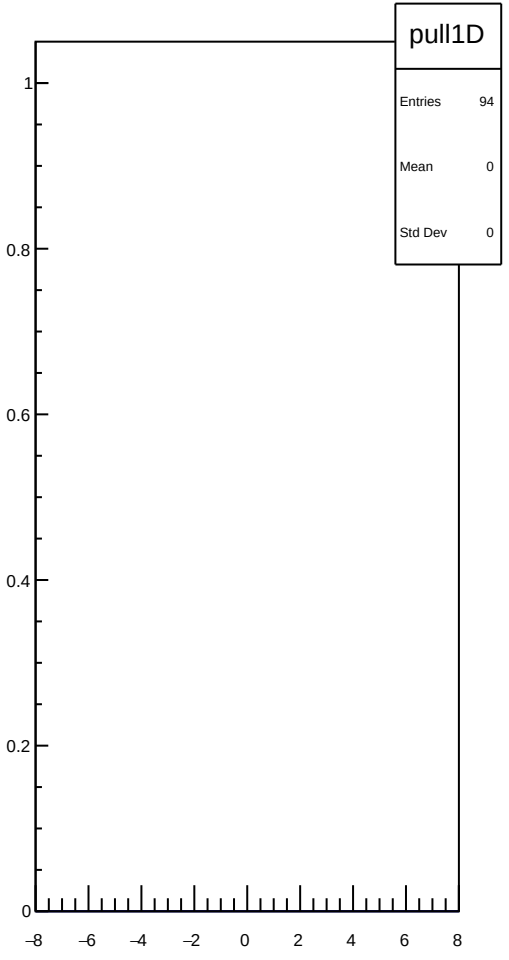

yield_bpm0i01aWS_rms vs run
χ² / ndf 1540 / 93
p0 263.2 ± 0.1952
290
280
270
260
250
240

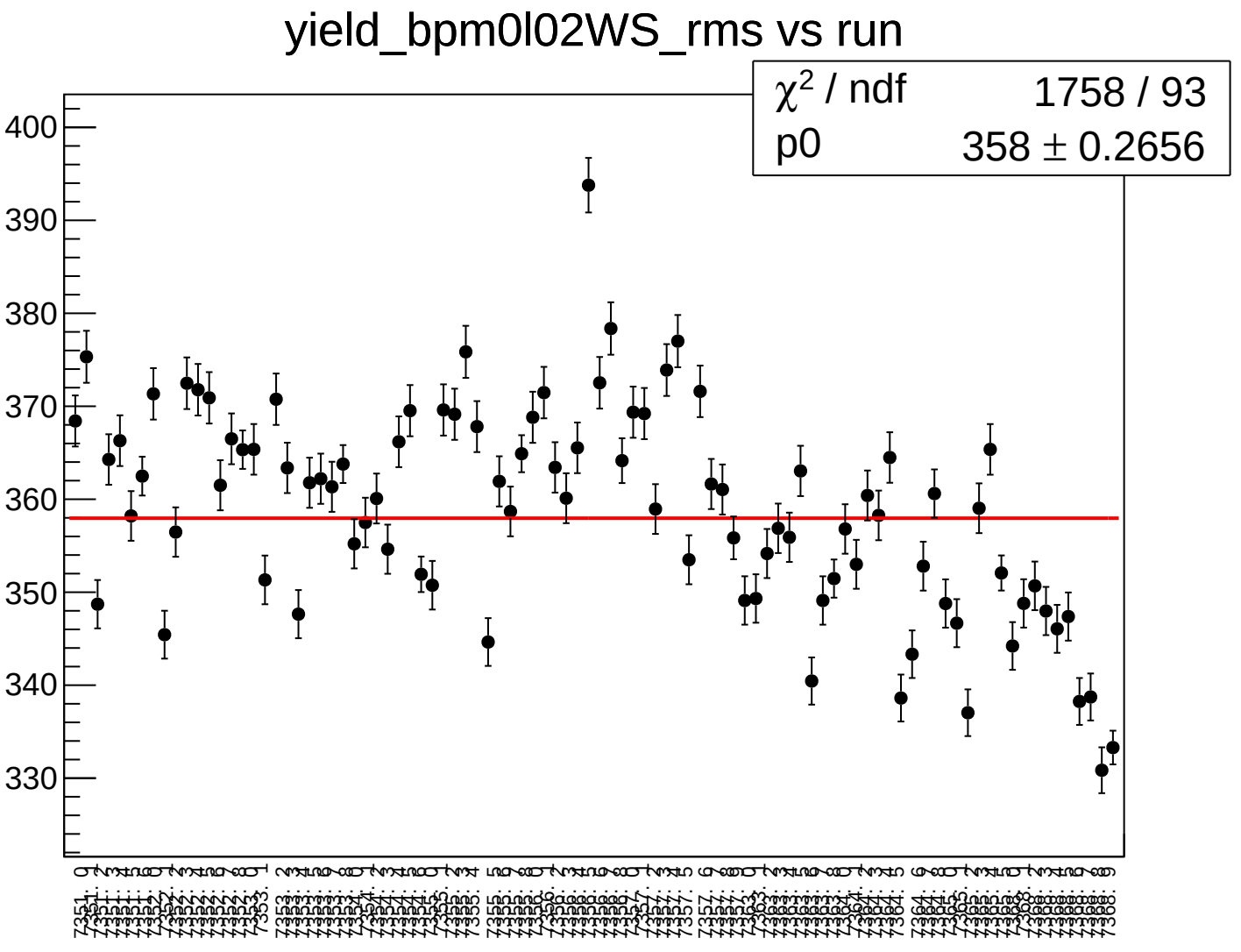

yield_bpm0l01WS_mean vs run
×10^3
118.7
118.6
118.5
118.4
118.3
118.2
χ² / ndf 1.542e+05 / 93
p0 1.184e+05 ± 0.2393
pull
Entries 94
Mean 1982
Std Dev 0
120
100
80
60
40
20
0
−20
−40
−60
−80

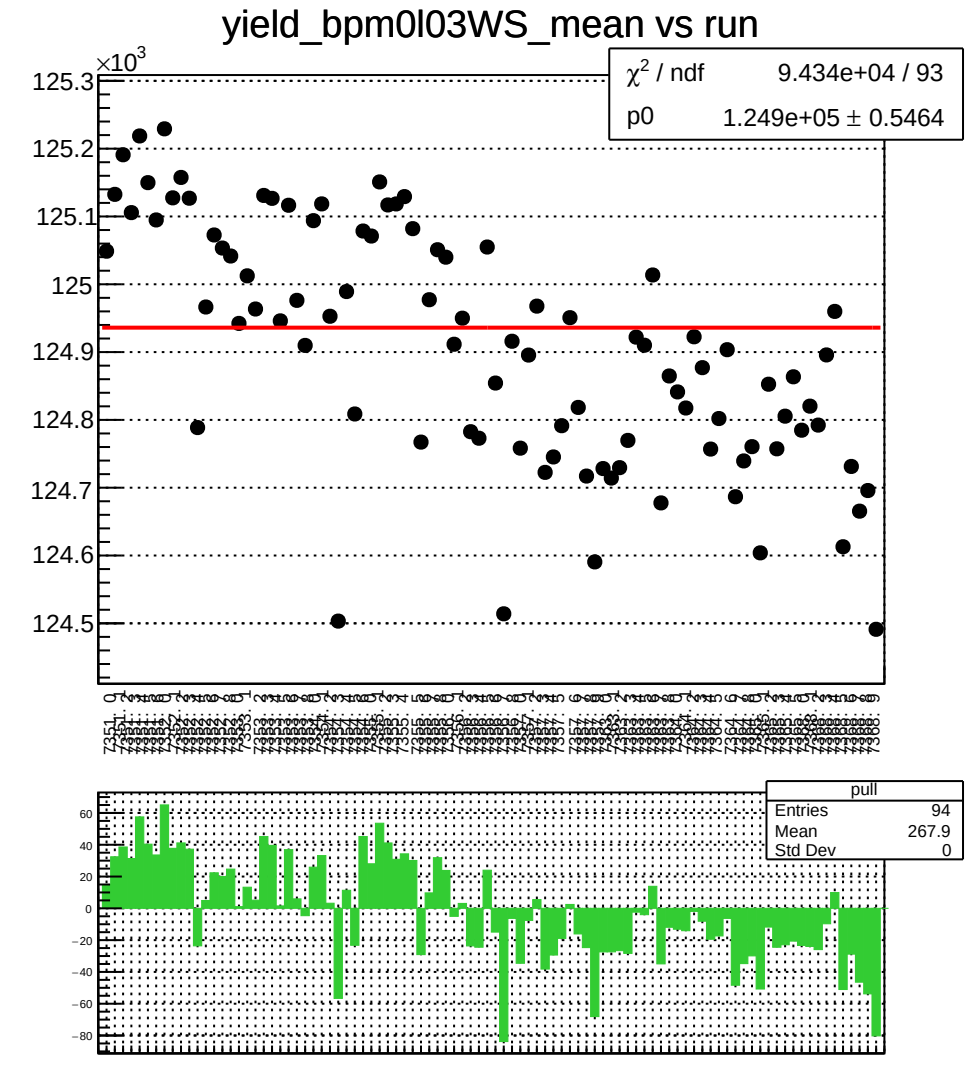

pull1D
Entries 94
Mean 0.732
Std Dev 3.873
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

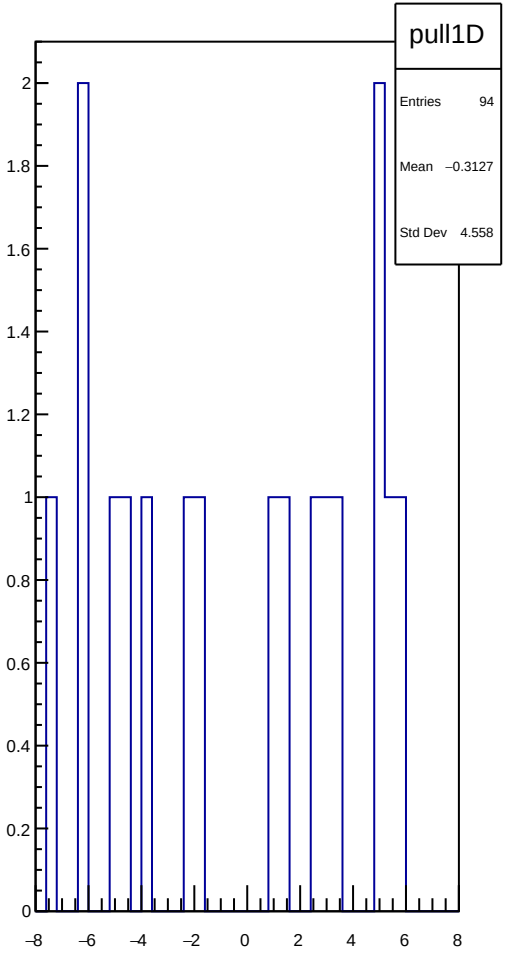

yield_bpm0l01WS_rms vs run
χ² / ndf 6706 / 93
p0 227.8 ± 0.1692
300
280
260
240
220
200

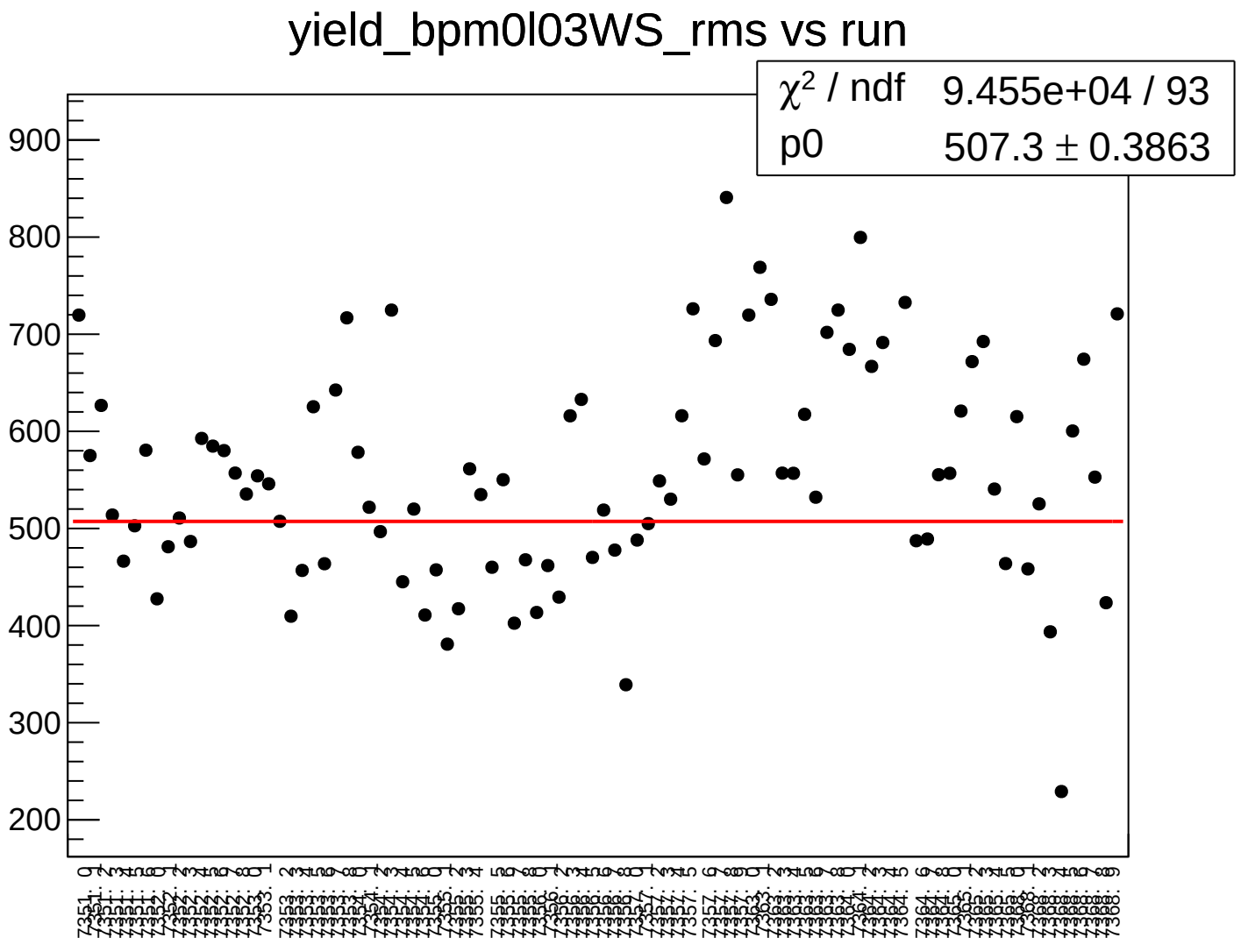

yield_bpm0l02WS_mean vs run
×10^3
χ² / ndf 1.966e+06 / 93
p0 1.273e+05 ± 0.3756
128
127.5
127
126.5
126
pull
Entries 94
Mean −921.3
Std Dev 0
200
100
0
−100
−200
−300
−400
−500
−600

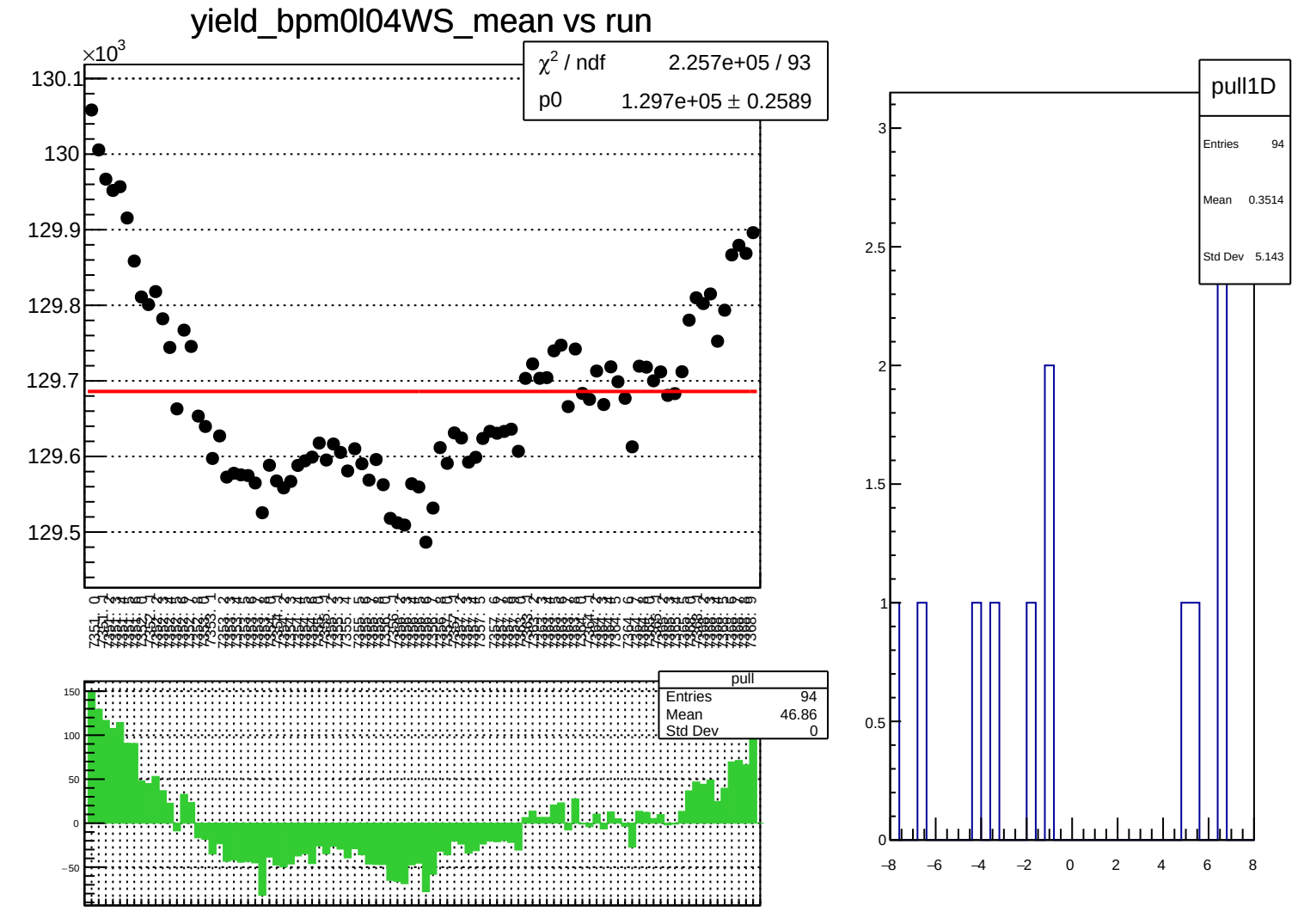

pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

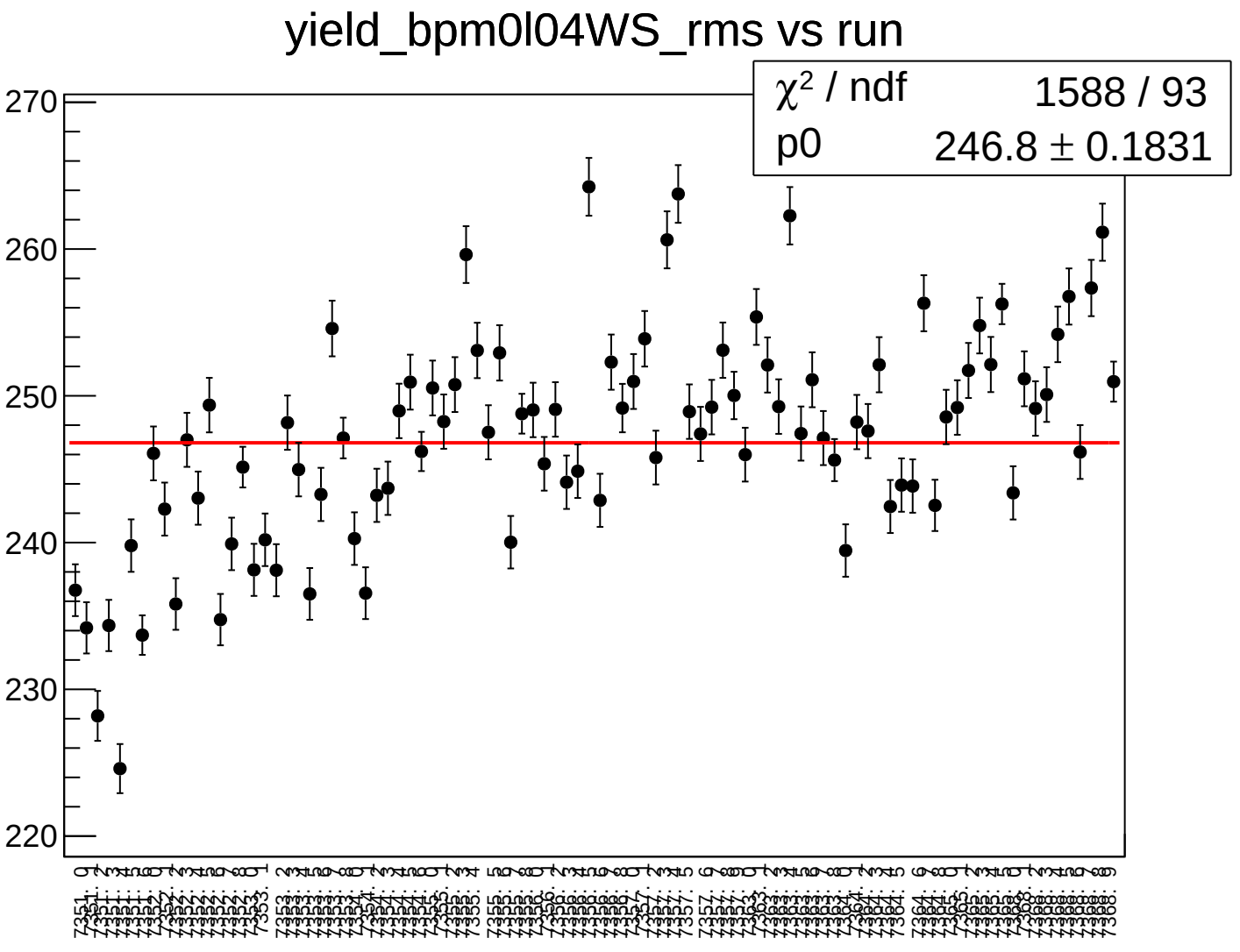

yield_bpm0l02WS_rms vs run
χ² / ndf 1758 / 93
p0 358 ± 0.2656
400
390
380
370
360
350
340
330

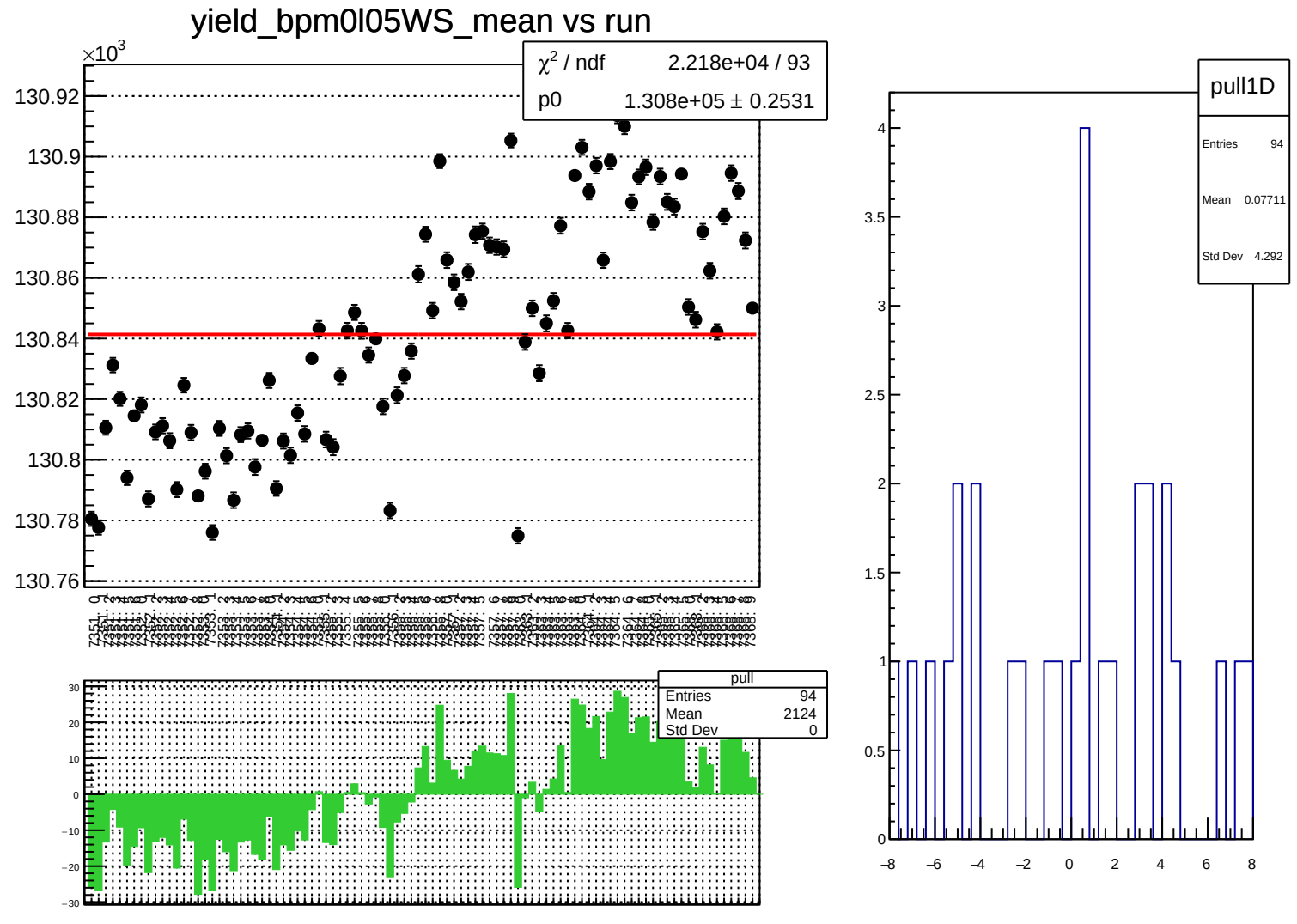

yield_bpm0l03WS_mean vs run
×10^3
χ^2 / ndf 9.434e+04 / 93
p0 1.249e+05 ± 0.5464
125.3
125.2
125.1
125
124.9
124.8
124.7
124.6
124.5
pull
Entries 94
Mean 267.9
Std Dev 0
60
40
20
0
−20
−40
−60
−80

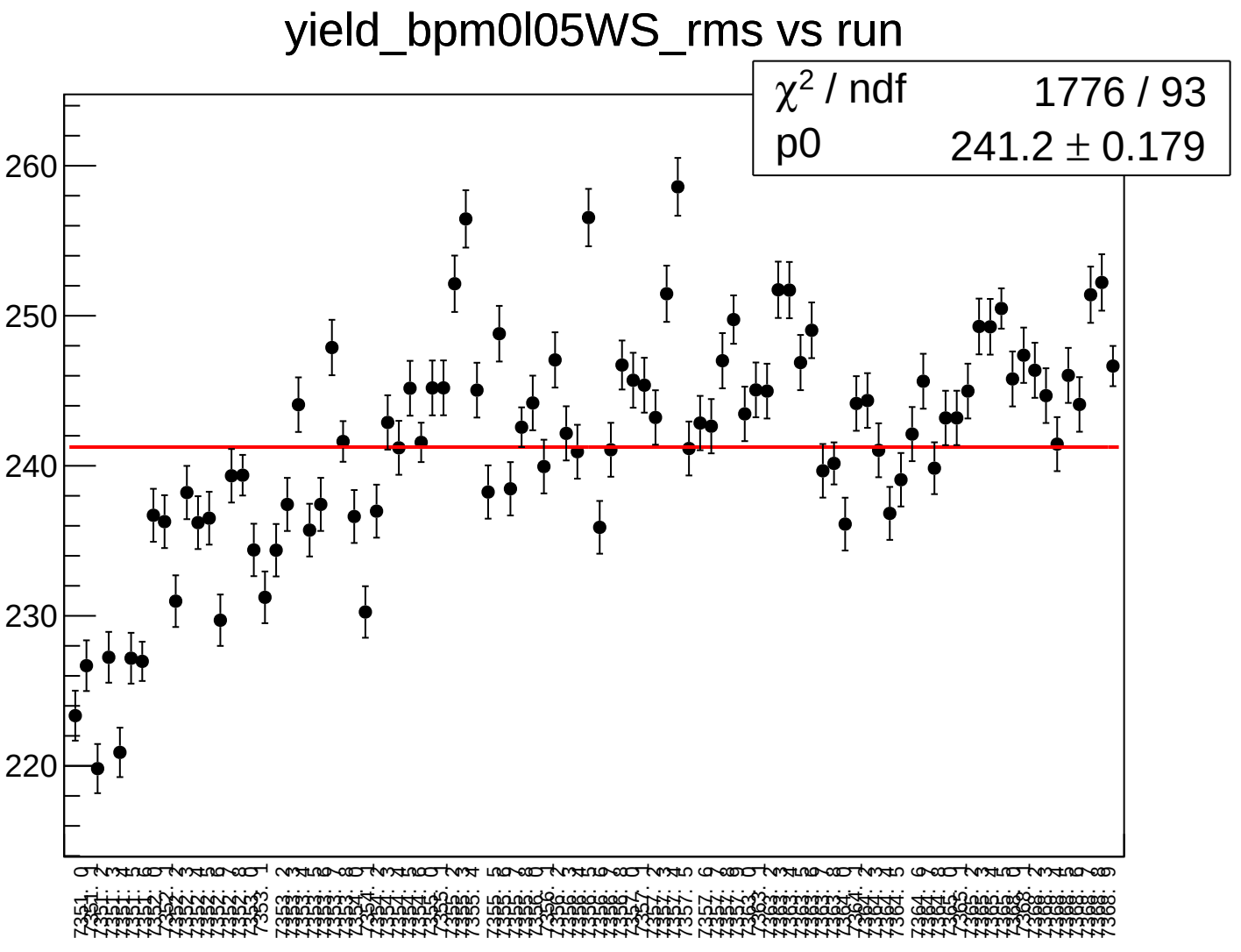

pull1D
Entries 94
Mean −0.3127
Std Dev 4.558
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

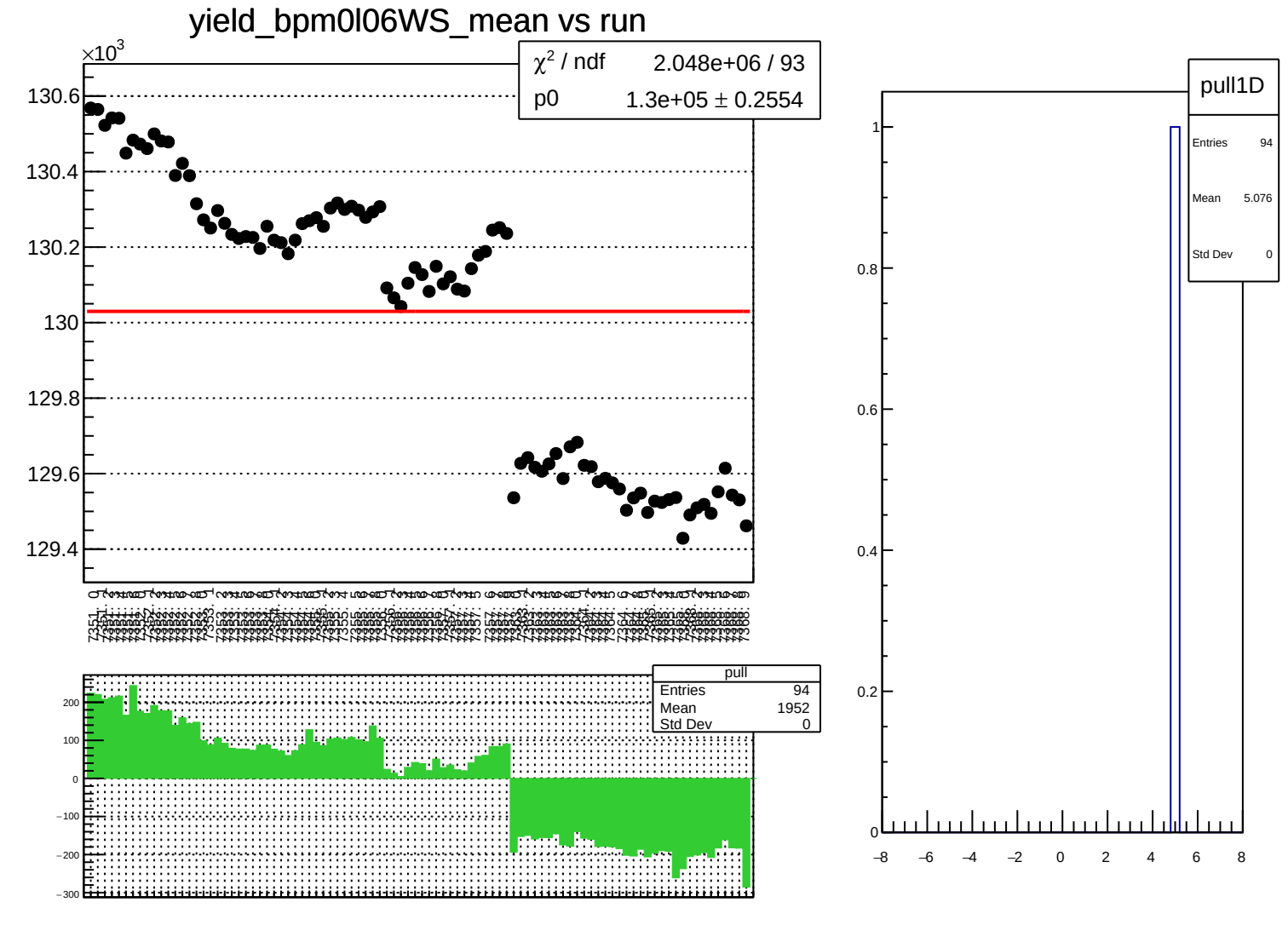

yield_bpm0l03WS_rms vs run
χ² / ndf 9.455e+04 / 93
p0 507.3 ± 0.3863
900
800
700
600
500
400
300
200

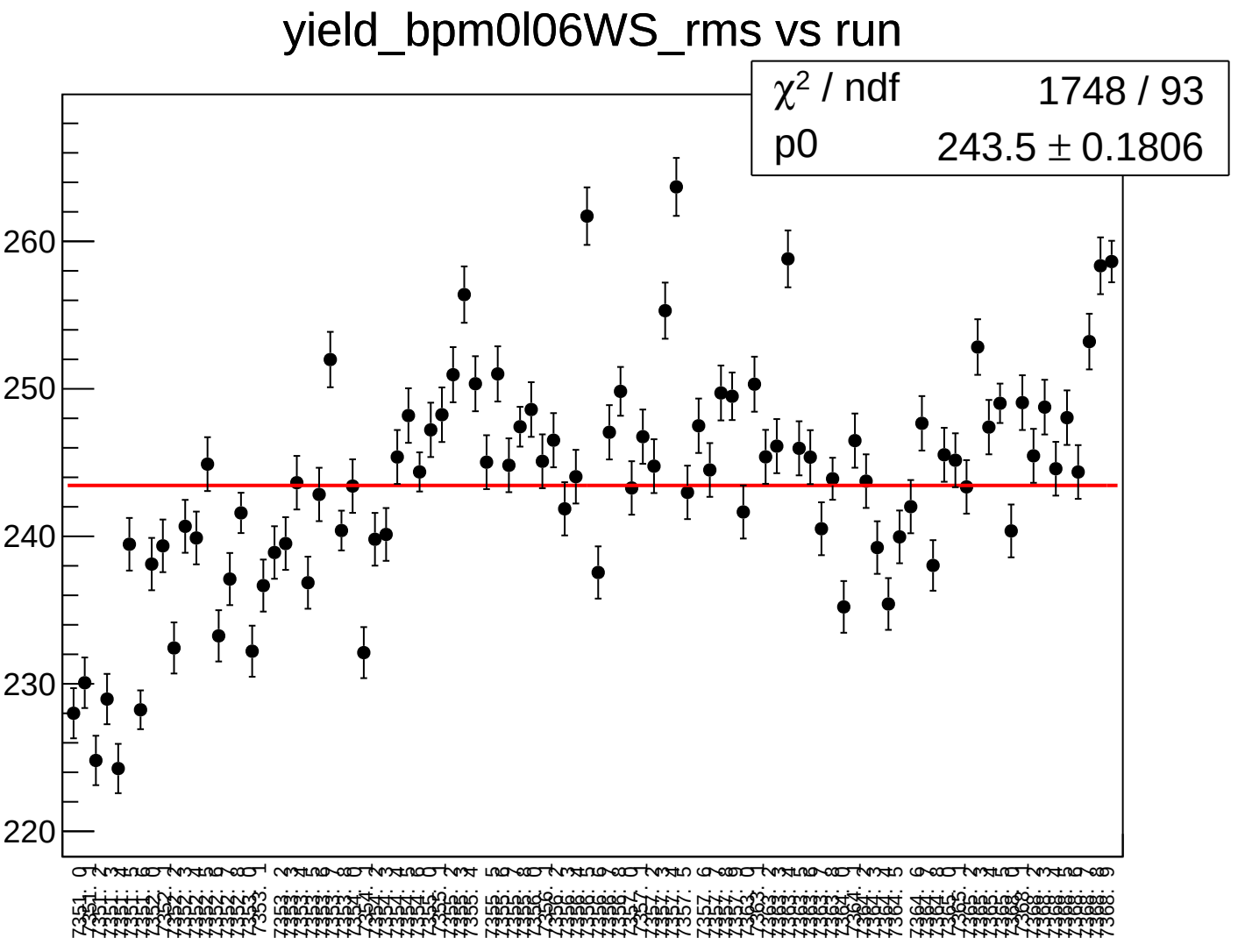

yield_bpm0l04WS_mean vs run
×10^3
130.1
130
129.9
129.8
129.7
129.6
129.5
χ² / ndf 2.257e+05 / 93
p0 1.297e+05 ± 0.2589
pull
Entries 94
Mean 46.86
Std Dev 0
150
100
50
0
−50
pull1D
Entries 94
Mean 0.3514
Std Dev 5.143
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

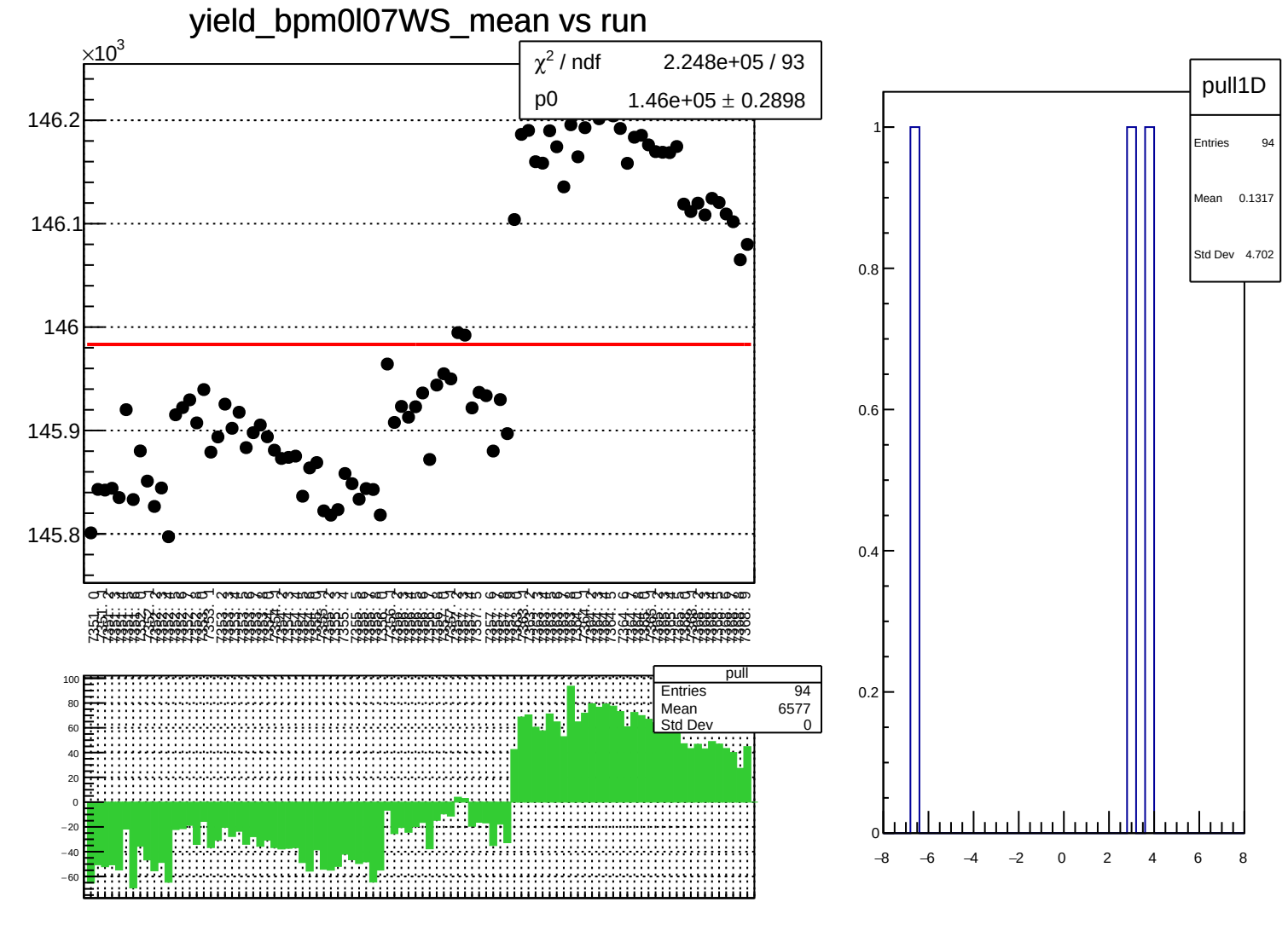

yield_bpm0l04WS_rms vs run
χ² / ndf 1588 / 93
p0 246.8 ± 0.1831
270
260
250
240
230
220

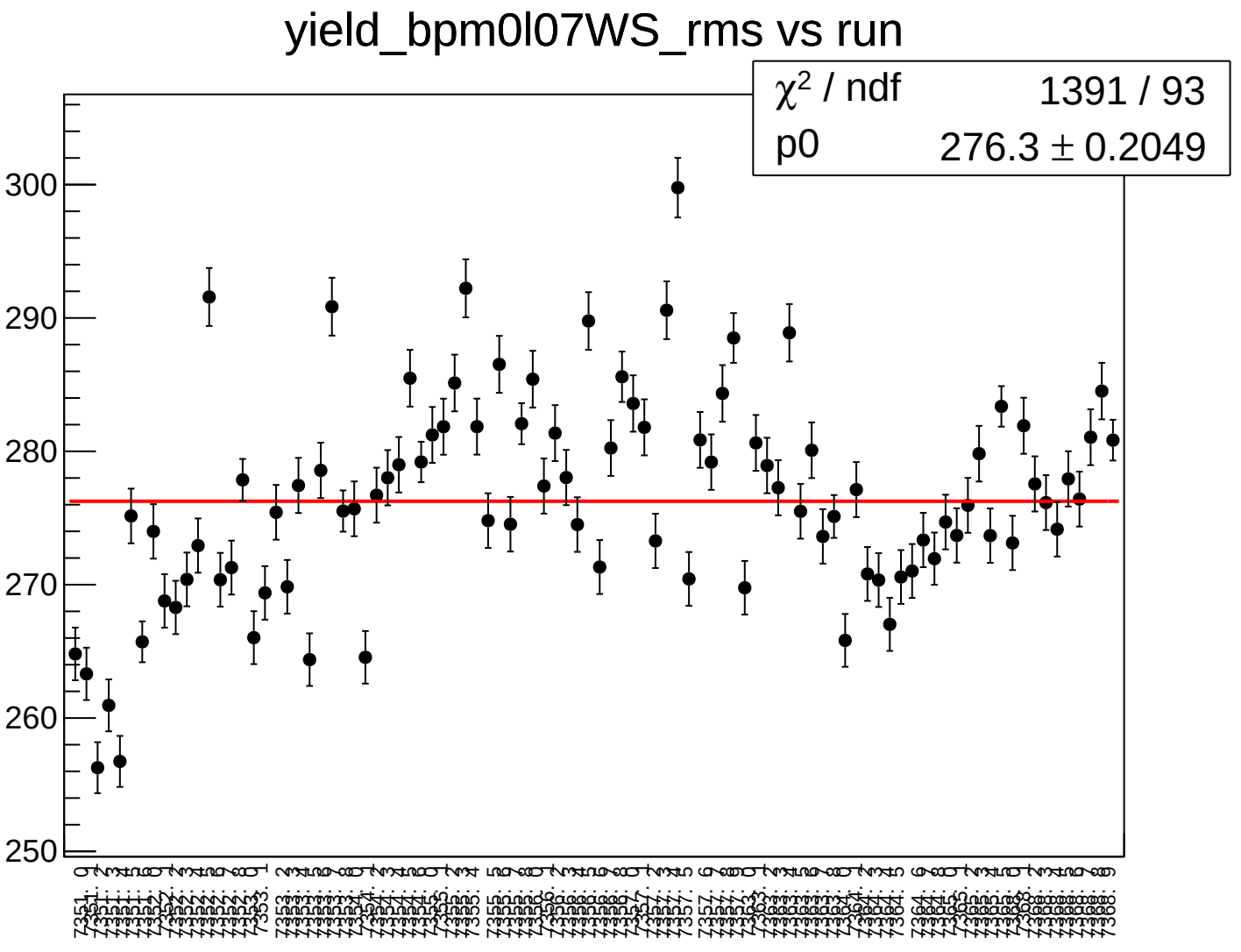

yield_bpm0l05WS_mean vs run
×10^3
χ² / ndf 2.218e+04 / 93
p0 1.308e+05 ± 0.2531
130.92
130.9
130.88
130.86
130.84
130.82
130.8
130.78
130.76
pull
Entries 94
Mean 2124
Std Dev 0
30
20
10
0
−10
−20
−30
pull1D
Entries 94
Mean 0.07711
Std Dev 4.292
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

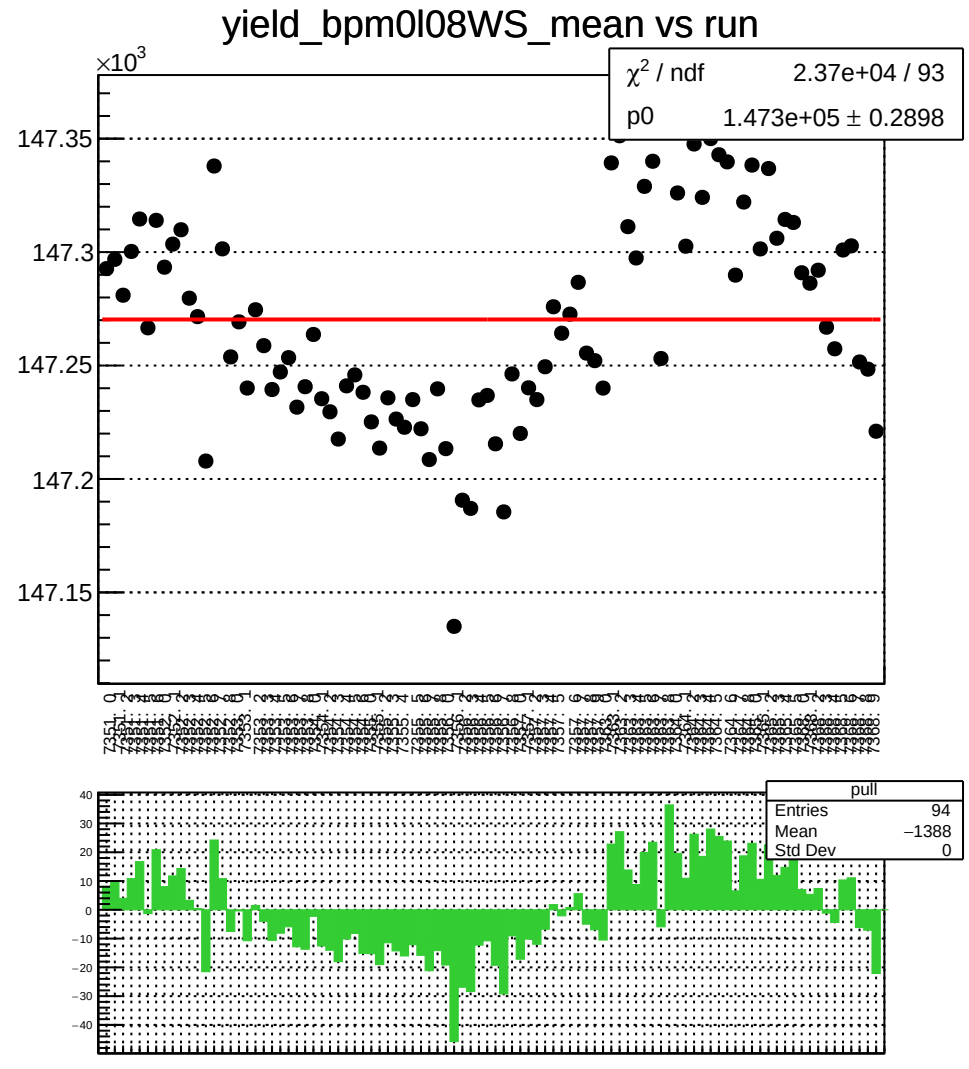

yield_bpm0l05WS_rms vs run
χ² / ndf 1776 / 93
p0 241.2 ± 0.179
260
250
240
230
220

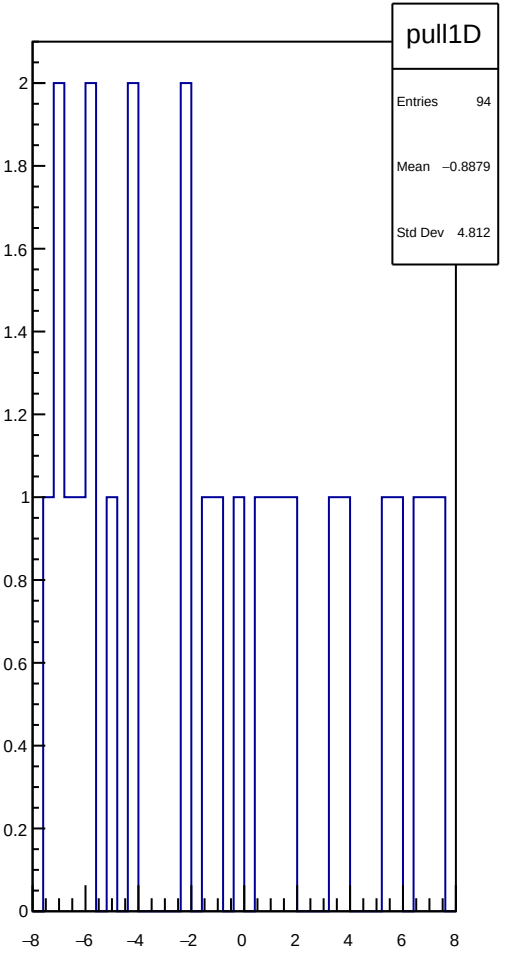

yield_bpm0l06WS_mean vs run
×10^3
χ² / ndf 2.048e+06 / 93
p0 1.3e+05 ± 0.2554
130.6
130.4
130.2
130
129.8
129.6
129.4
pull
Entries 94
Mean 1952
Std Dev 0
200
100
0
−100
−200
−300
pull1D
Entries 94
Mean 5.076
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

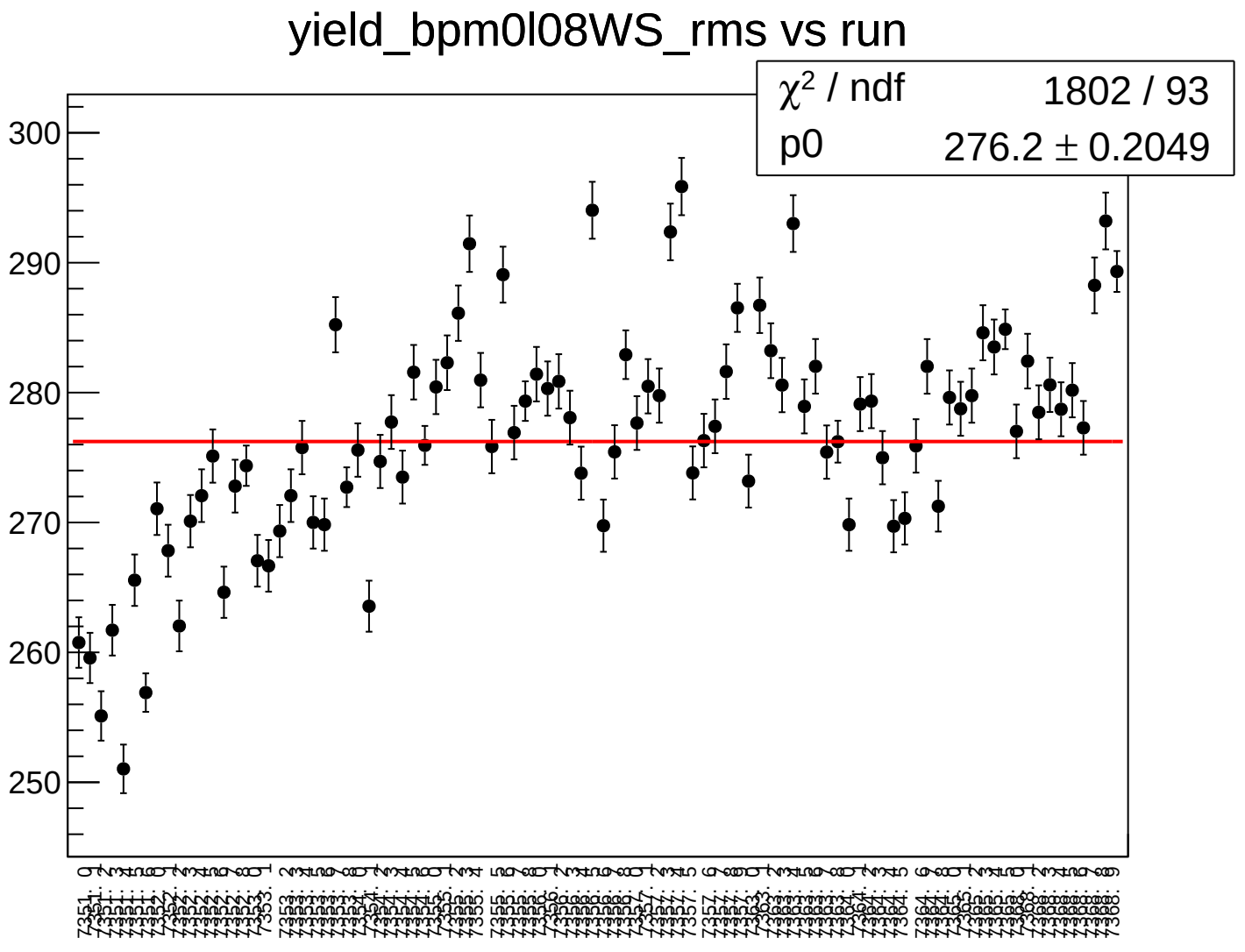

yield_bpm0l06WS_rms vs run
χ² / ndf 1748 / 93
p0 243.5 ± 0.1806
260
250
240
230
220

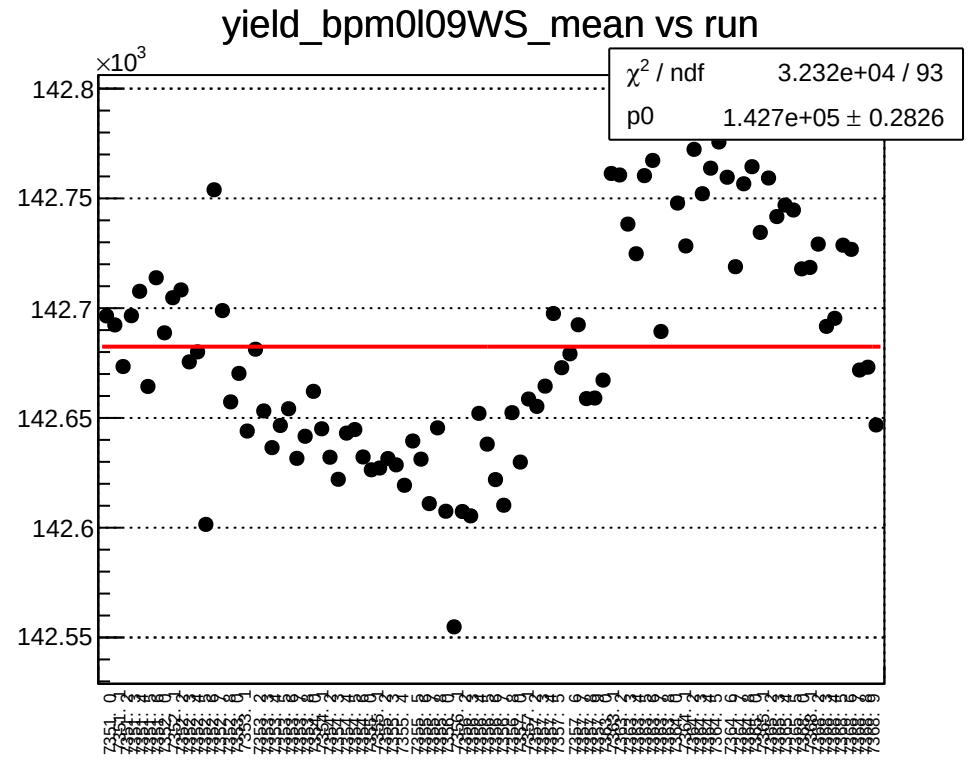

yield_bpm0l07WS_mean vs run
×10^3
χ² / ndf 2.248e+05 / 93
p0 1.46e+05 ± 0.2898
146.2
146.1
146
145.9
145.8
pull
Entries 94
Mean 6577
Std Dev 0
100
80
60
40
20
0
−20
−40
−60
pull1D
Entries 94
Mean 0.1317
Std Dev 4.702
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

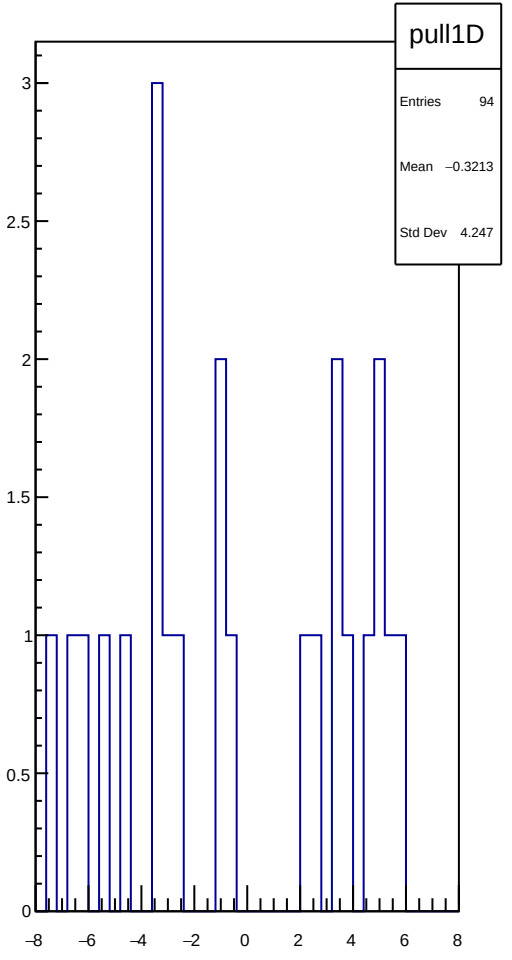

yield_bpm0l07WS_rms vs run
χ² / ndf 1391 / 93
p0 276.3 ± 0.2049
300
290
280
270
260
250

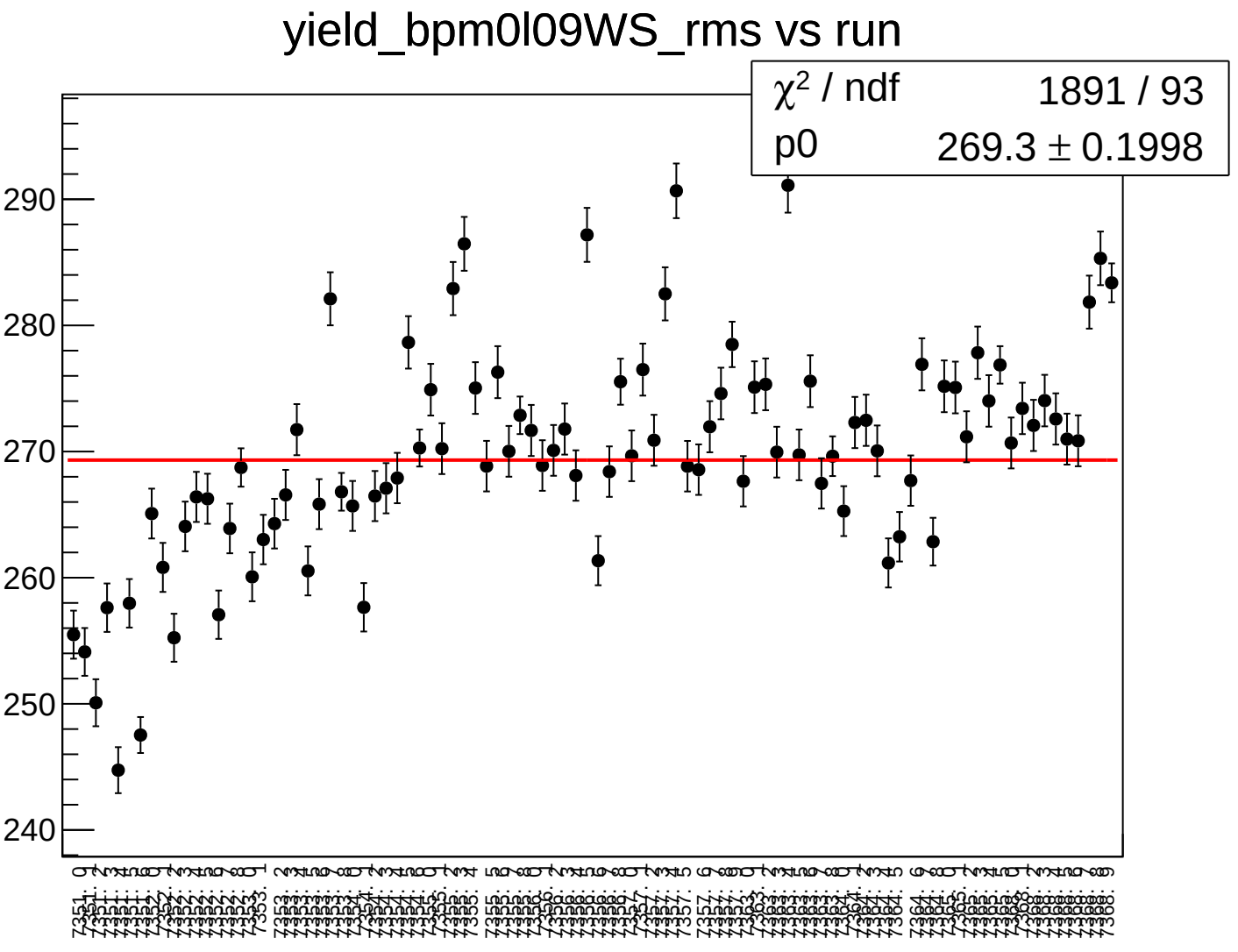

yield_bpm0l08WS_mean vs run
×10^3
χ² / ndf 2.37e+04 / 93
p0 1.473e+05 ± 0.2898
147.35
147.3
147.25
147.2
147.15
pull
Entries 94
Mean −1388
Std Dev 0
40
30
20
10
0
−10
−20
−30
−40

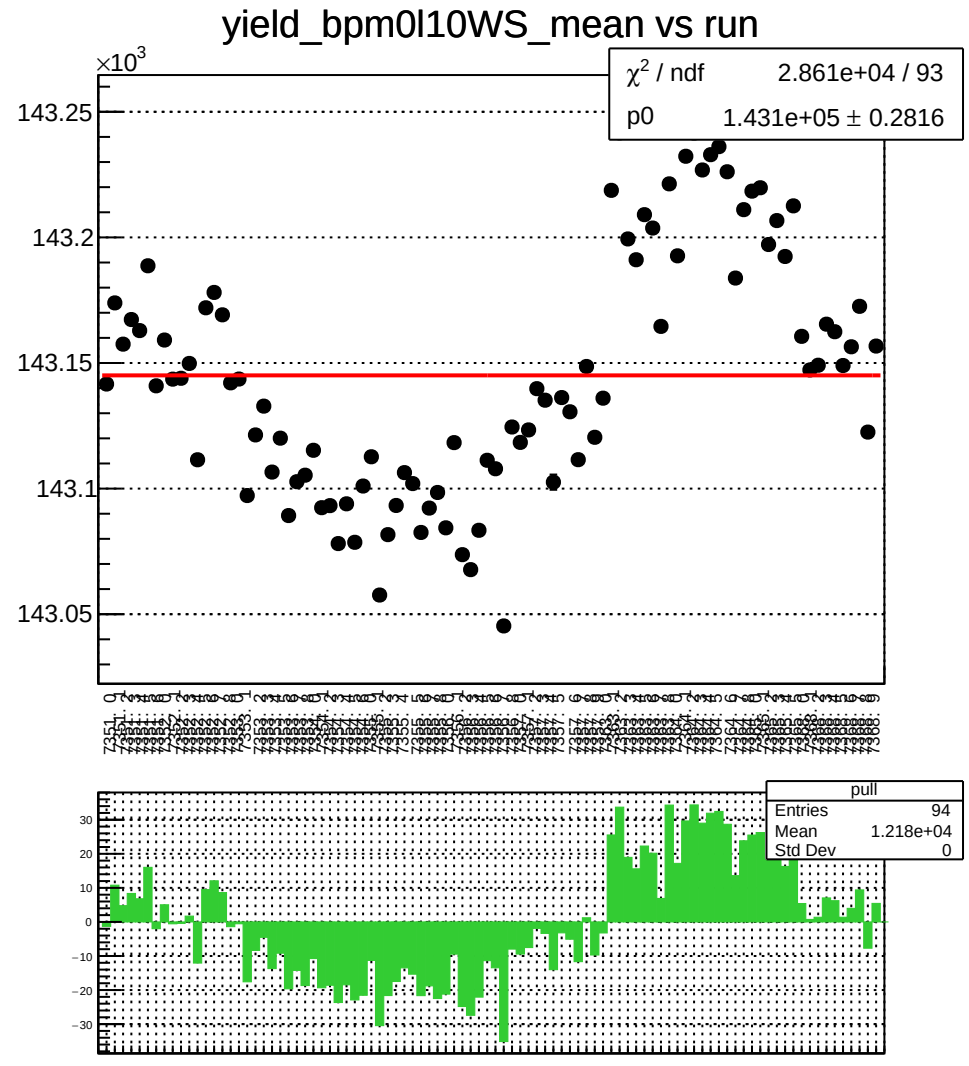

pull1D
Entries 94
Mean −0.8879
Std Dev 4.812
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

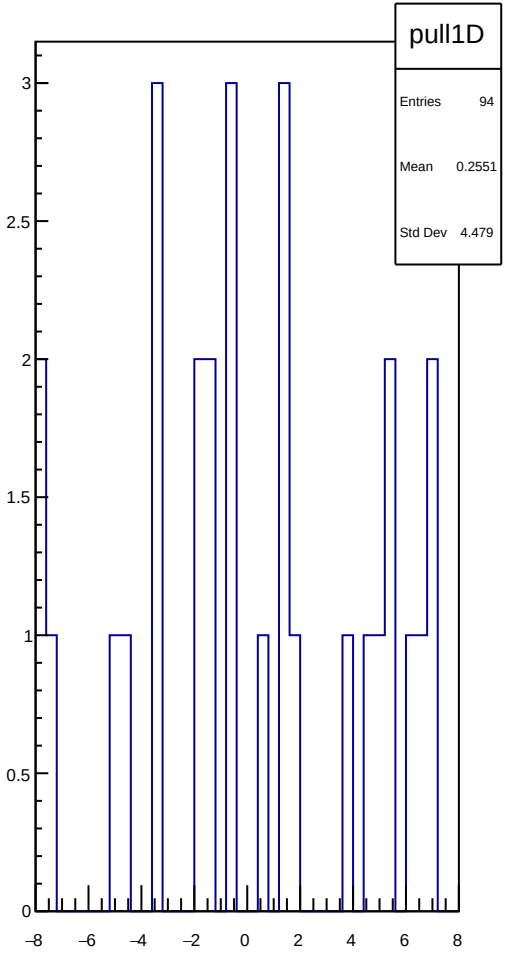

yield_bpm0l08WS_rms vs run
χ² / ndf 1802 / 93
p0 276.2 ± 0.2049
300
290
280
270
260
250

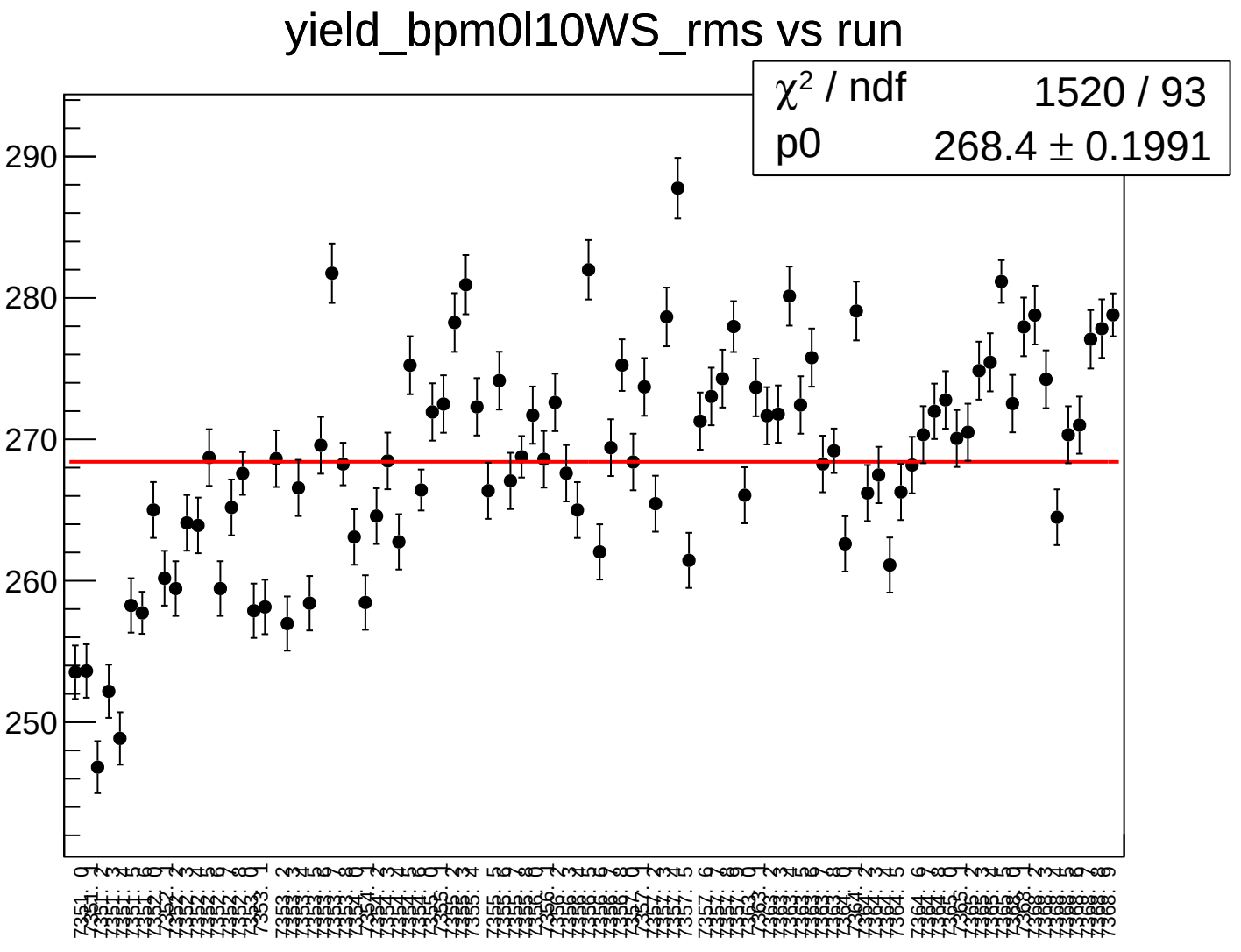

yield_bpm0l09WS_mean vs run
×10^3
142.8
142.75
142.7
142.65
142.6
142.55
χ² / ndf 3.232e+04 / 93
p0 1.427e+05 ± 0.2826
pull
Entries 94
Mean −1.454e+06
Std Dev 0
40
30
20
10
0
−10
−20
−30
−40

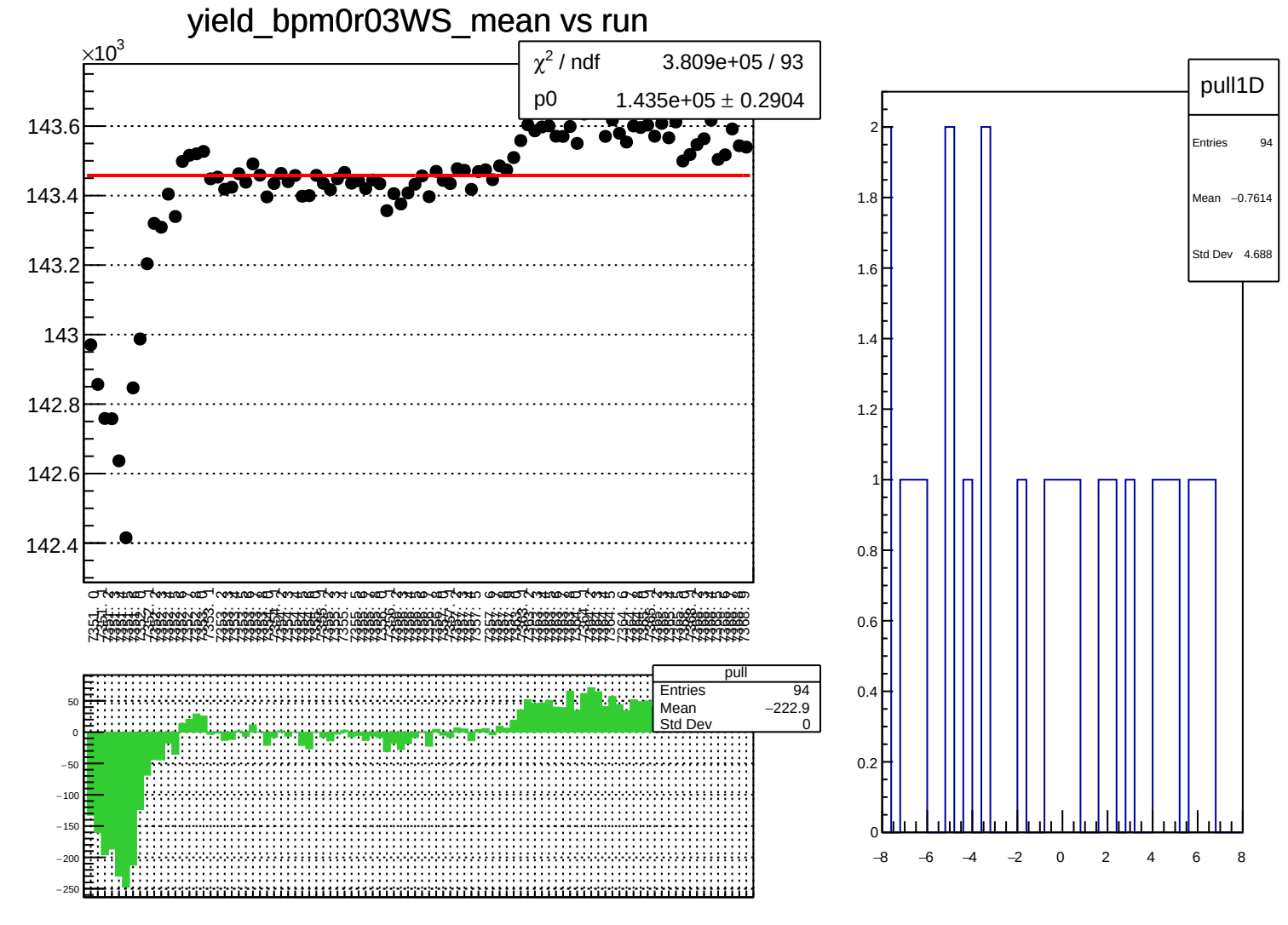

pull1D
Entries 94
Mean −0.3213
Std Dev 4.247
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

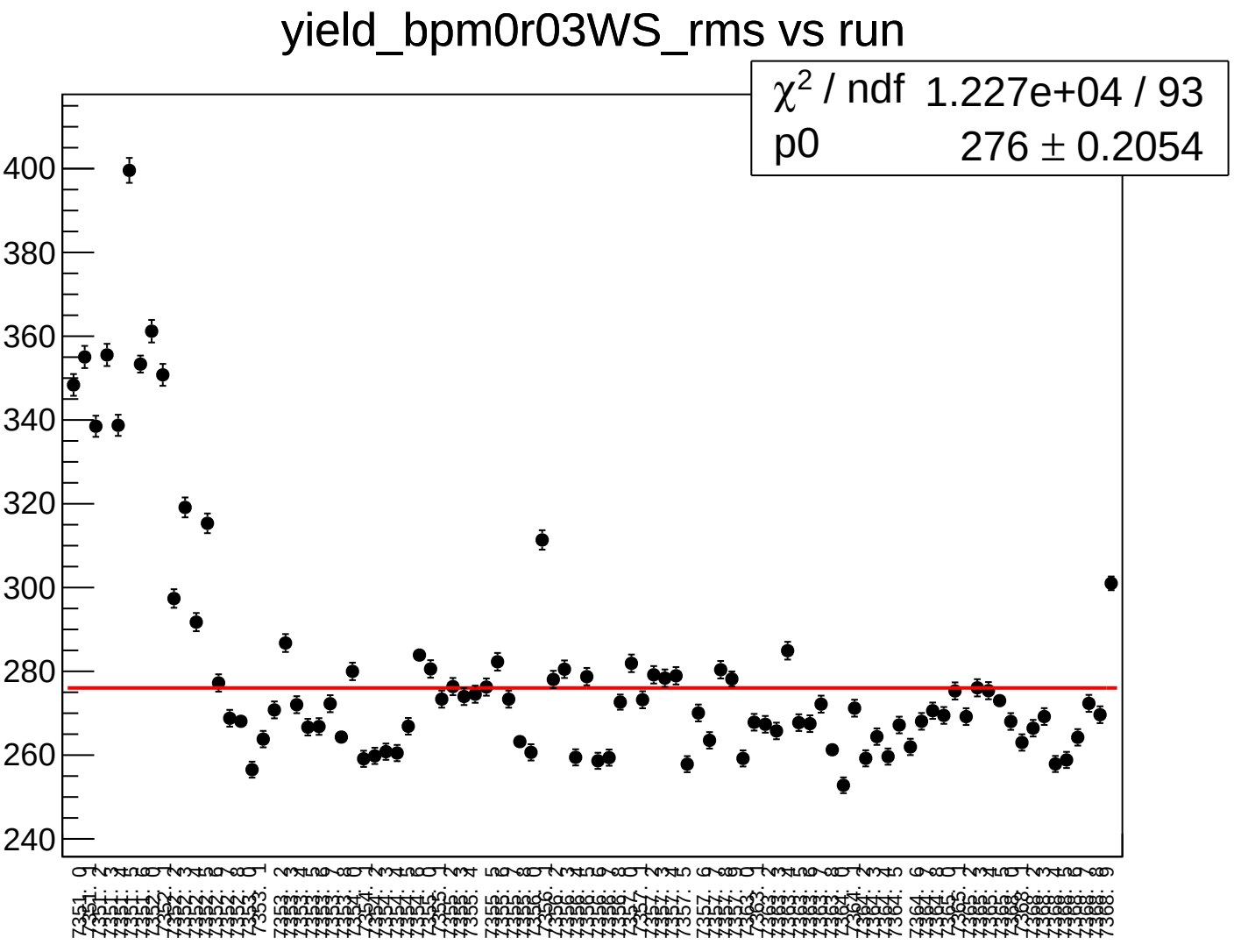

yield_bpm0l09WS_rms vs run
χ² / ndf 1891 / 93
p0 269.3 ± 0.1998
290
280
270
260
250
240

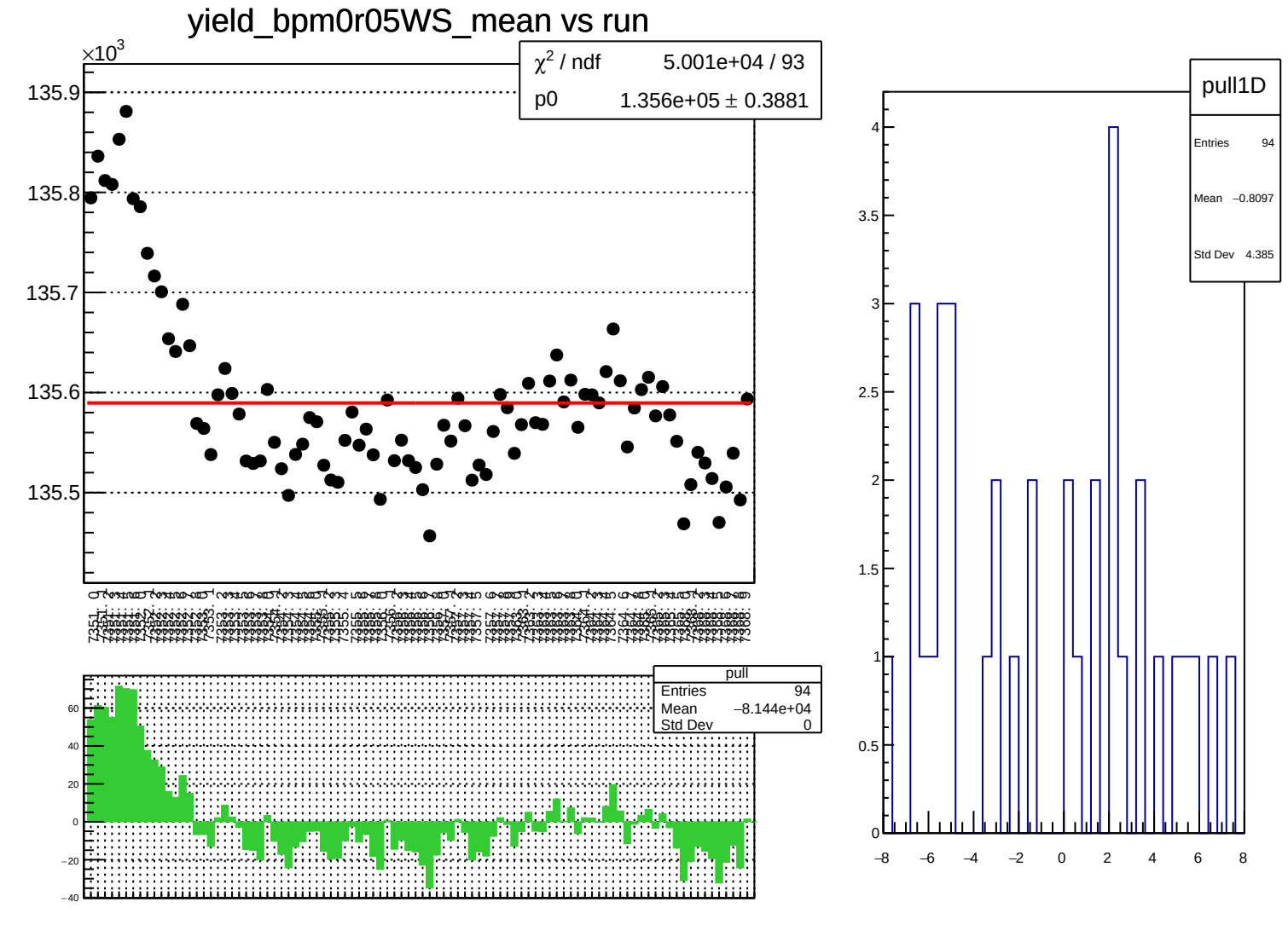

yield_bpm0l10WS_mean vs run
×10^3
χ² / ndf 2.861e+04 / 93
p0 1.431e+05 ± 0.2816
143.25
143.2
143.15
143.1
143.05
pull
Entries 94
Mean 1.218e+04
Std Dev 0
30
20
10
0
−10
−20
−30

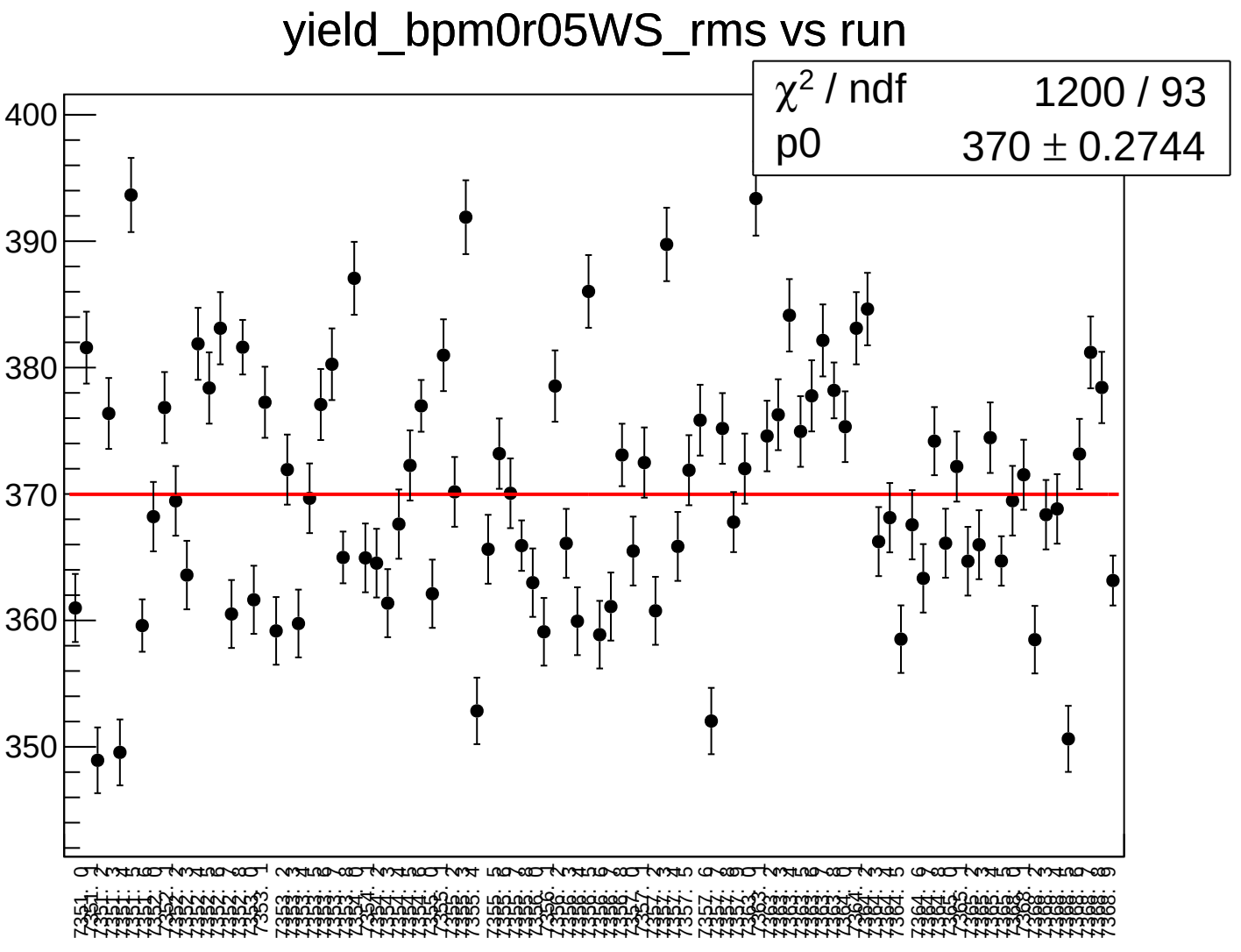

pull1D
Entries 94
Mean 0.2551
Std Dev 4.479
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

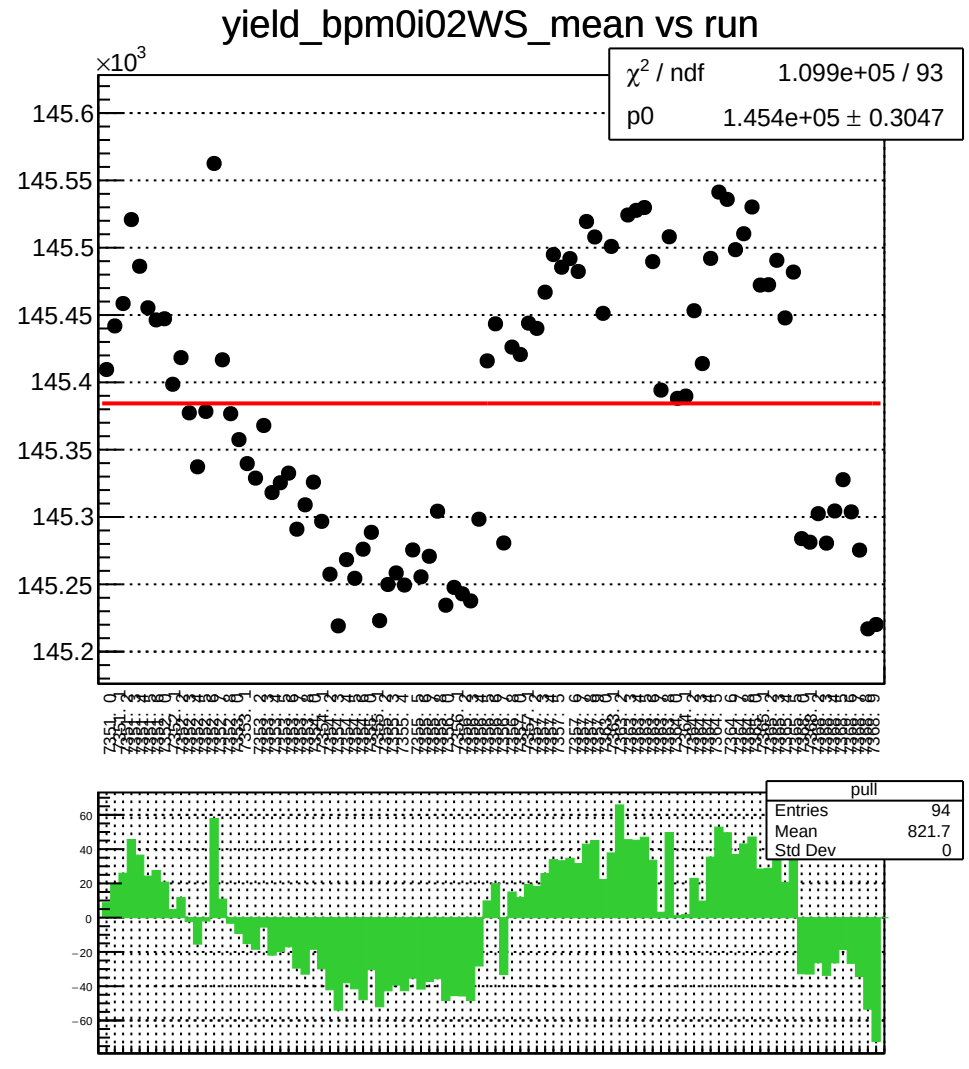

yield_bpm0l10WS_rms vs run
χ² / ndf 1520 / 93
p0 268.4 ± 0.1991
290
280
270
260
250

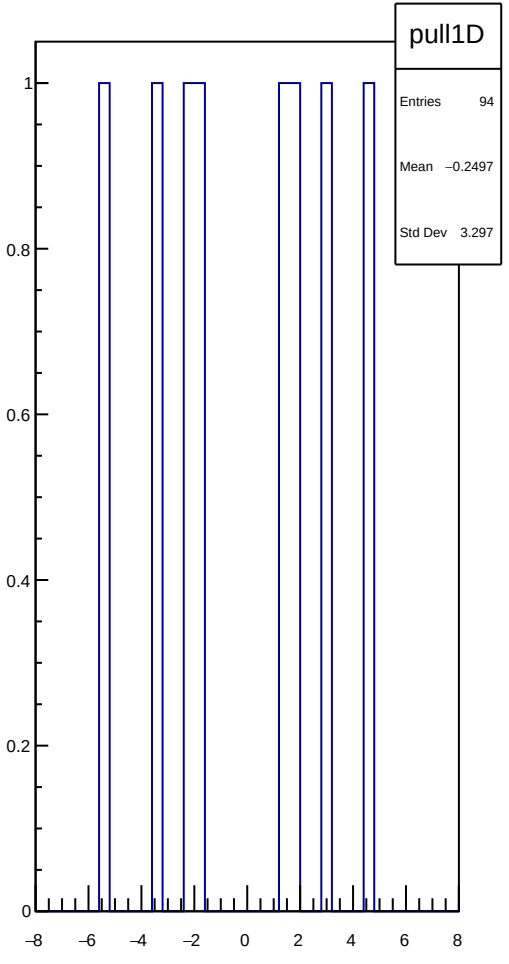

yield_bpm0r03WS_mean vs run
×10^3
χ² / ndf 3.809e+05 / 93
p0 1.435e+05 ± 0.2904
143.6
143.4
143.2
143
142.8
142.6
142.4
pull
Entries 94
Mean −222.9
Std Dev 0
50
0
−50
−100
−150
−200
−250
pull1D
Entries 94
Mean −0.7614
Std Dev 4.688
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

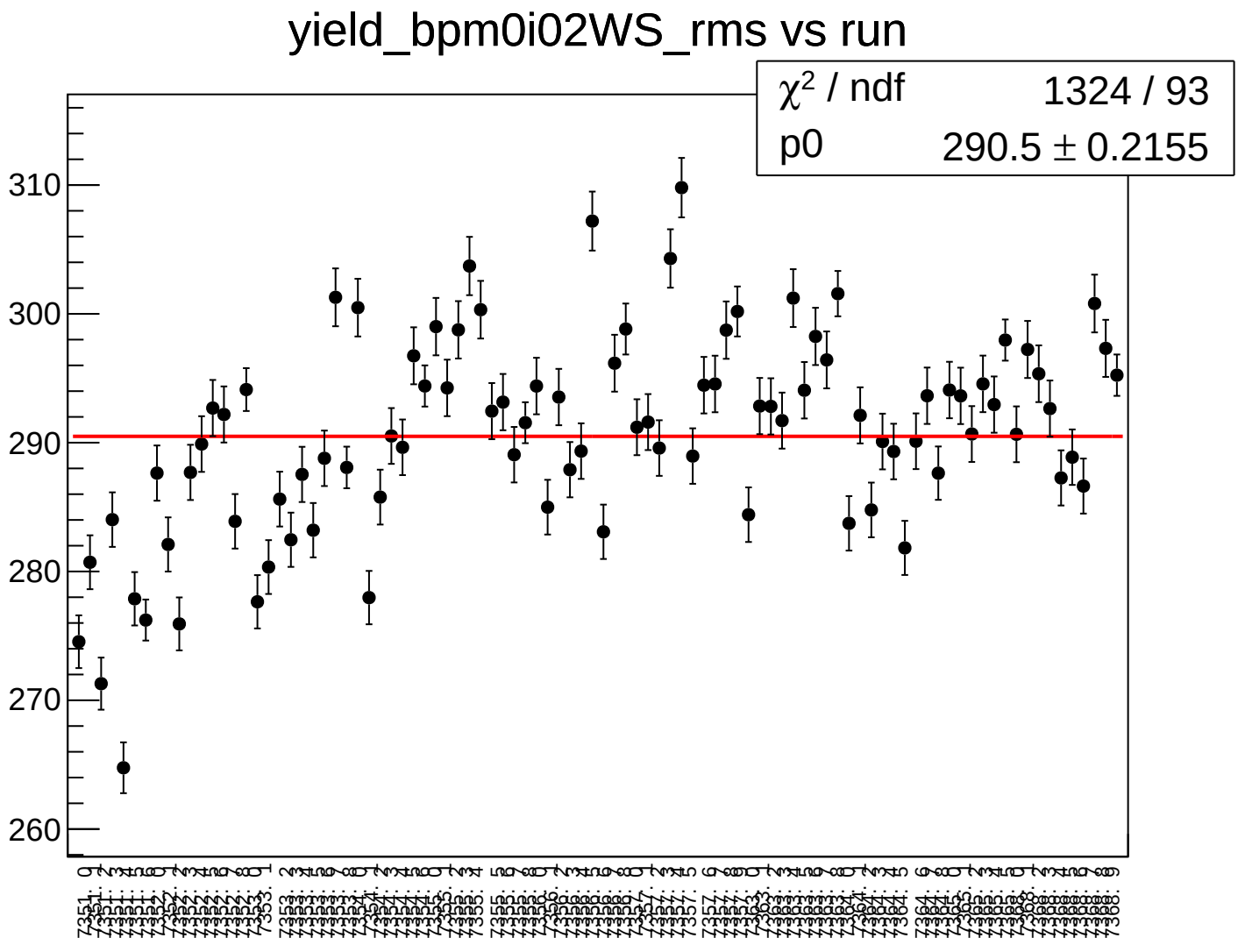

yield_bpm0r03WS_rms vs run
χ² / ndf 1.227e+04 / 93
p0 276 ± 0.2054
400
380
360
340
320
300
280
260
240

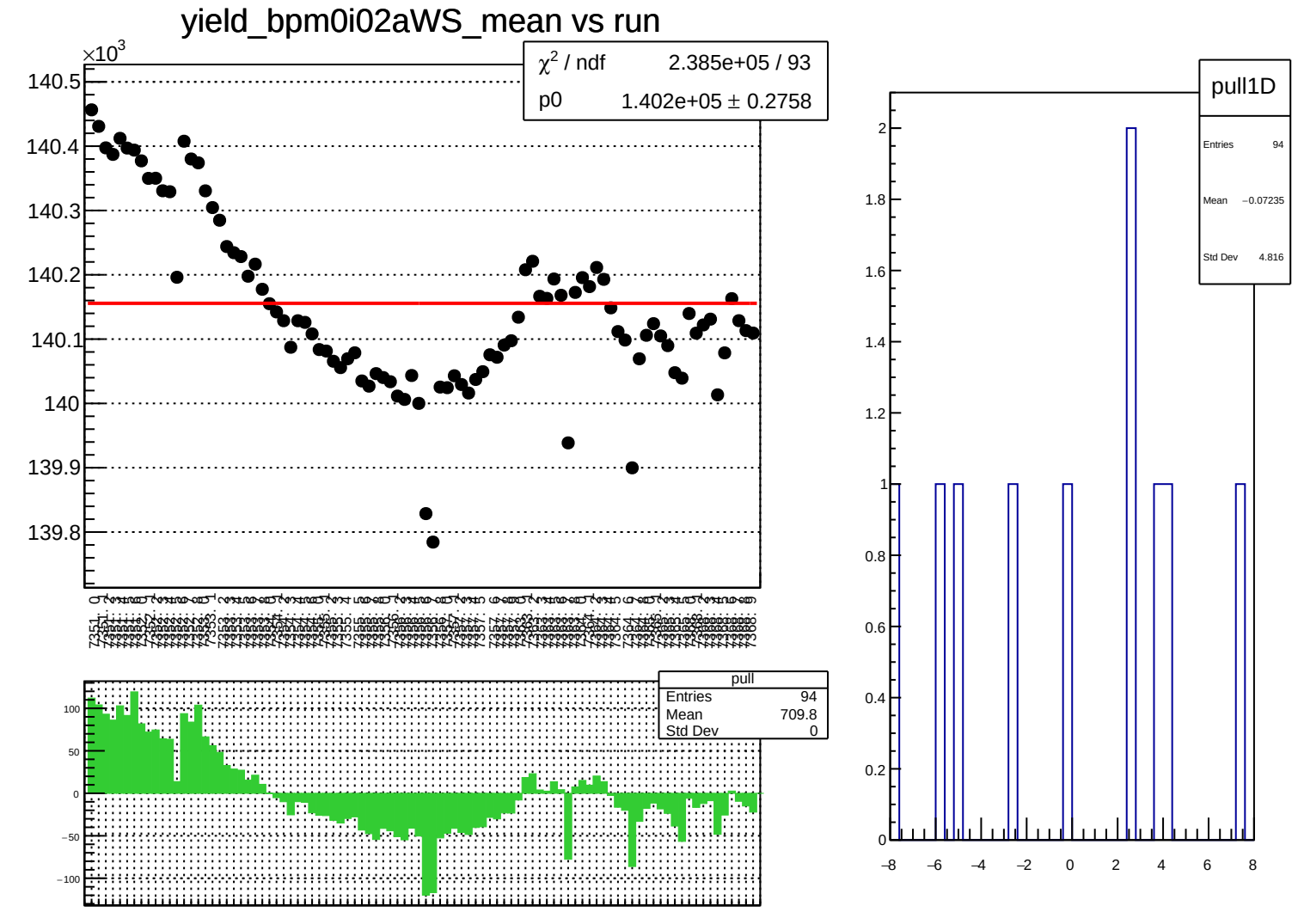

yield_bpm0r05WS_mean vs run
×10^3
χ² / ndf 5.001e+04 / 93
p0 1.356e+05 ± 0.3881
135.9
135.8
135.7
135.6
135.5
pull
Entries 94
Mean −8.144e+04
Std Dev 0
60
40
20
0
−20
−40
pull1D
Entries 94
Mean −0.8097
Std Dev 4.385
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

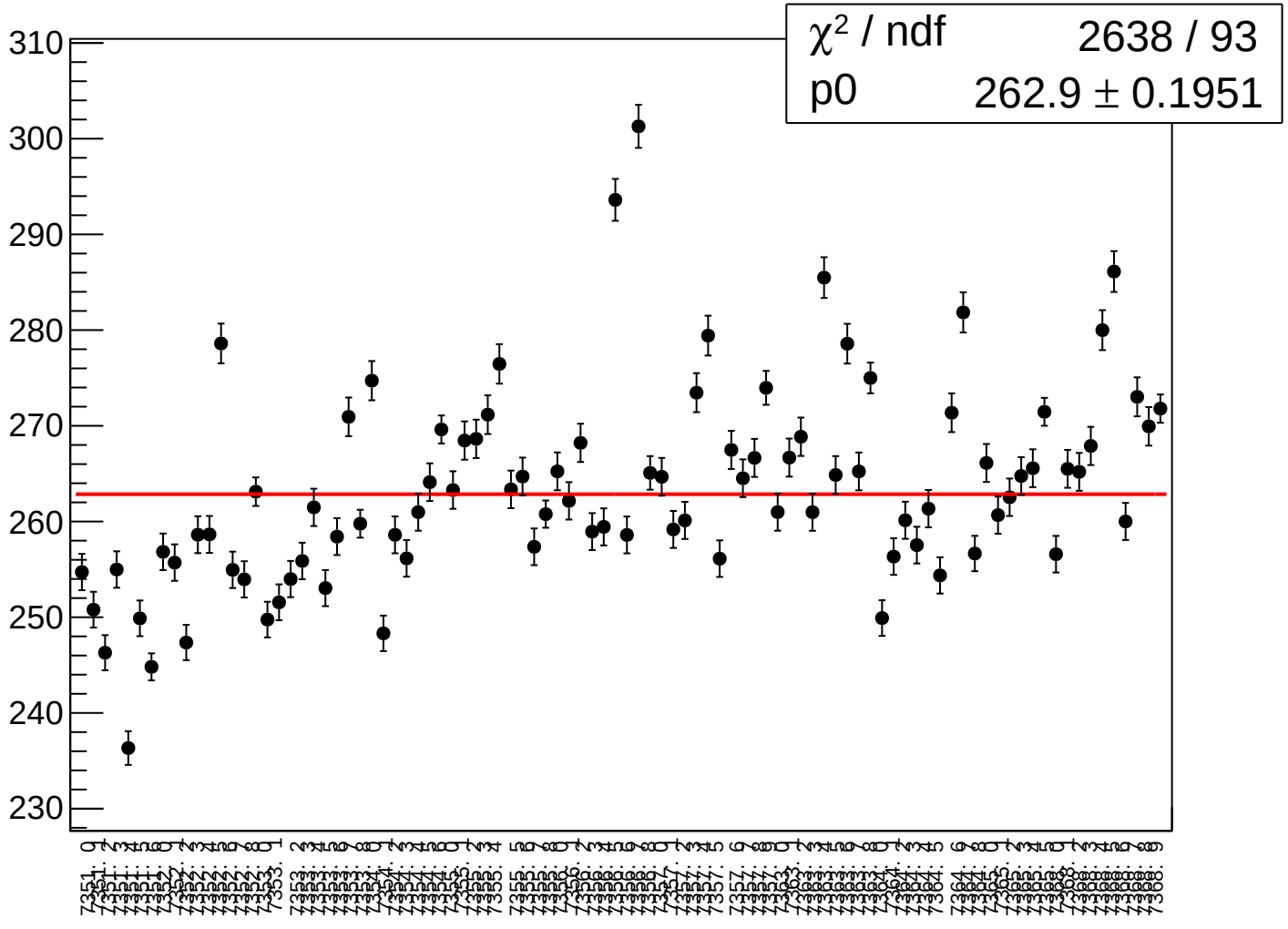

yield_bpm0r05WS_rms vs run
χ² / ndf 1200 / 93
p0 370 ± 0.2744
400
390
380
370
360
350

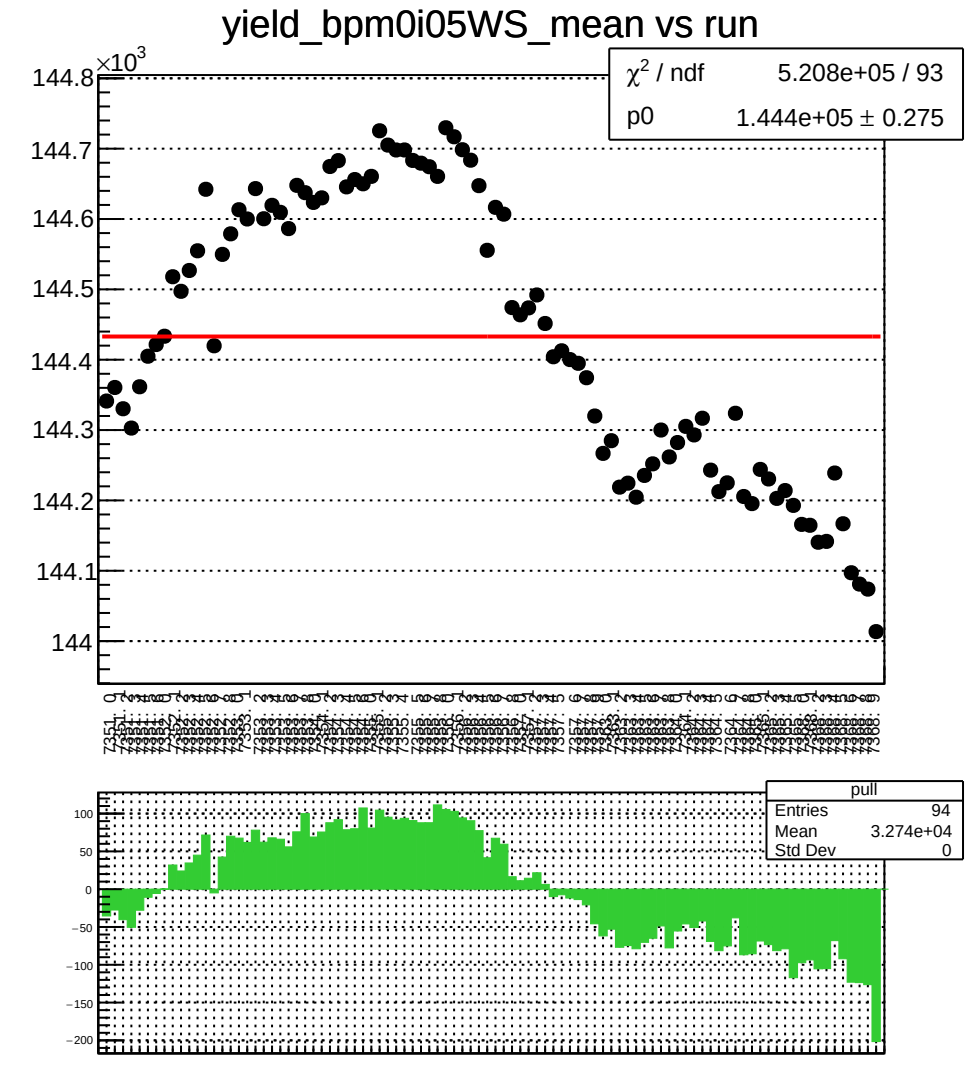

yield_bpm0i02WS_mean vs run
×10^3
χ^2 / ndf 1.099e+05 / 93
p0 1.454e+05 ± 0.3047
145.6
145.55
145.5
145.45
145.4
145.35
145.3
145.25
145.2
pull
Entries 94
Mean 821.7
Std Dev 0
60
40
20
0
−20
−40
−60

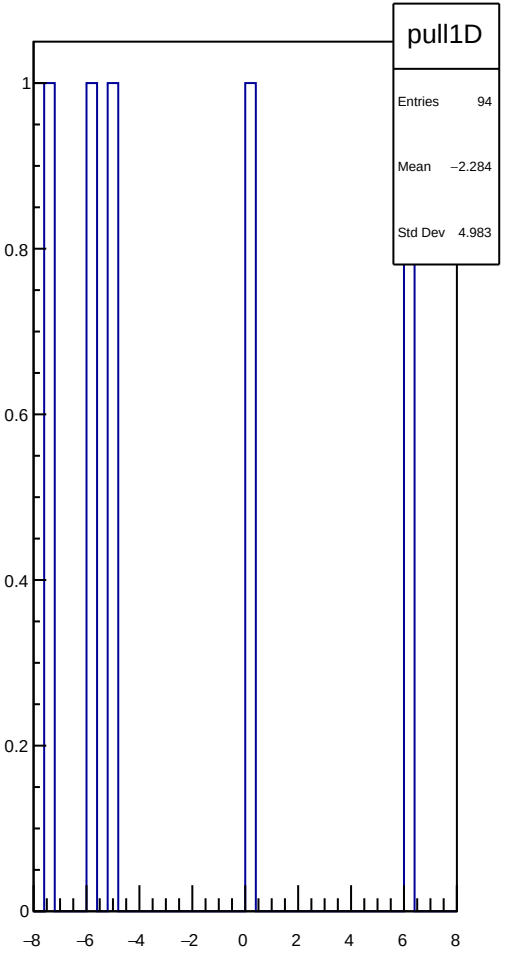

pull1D
Entries 94
Mean −0.2497
Std Dev 3.297
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

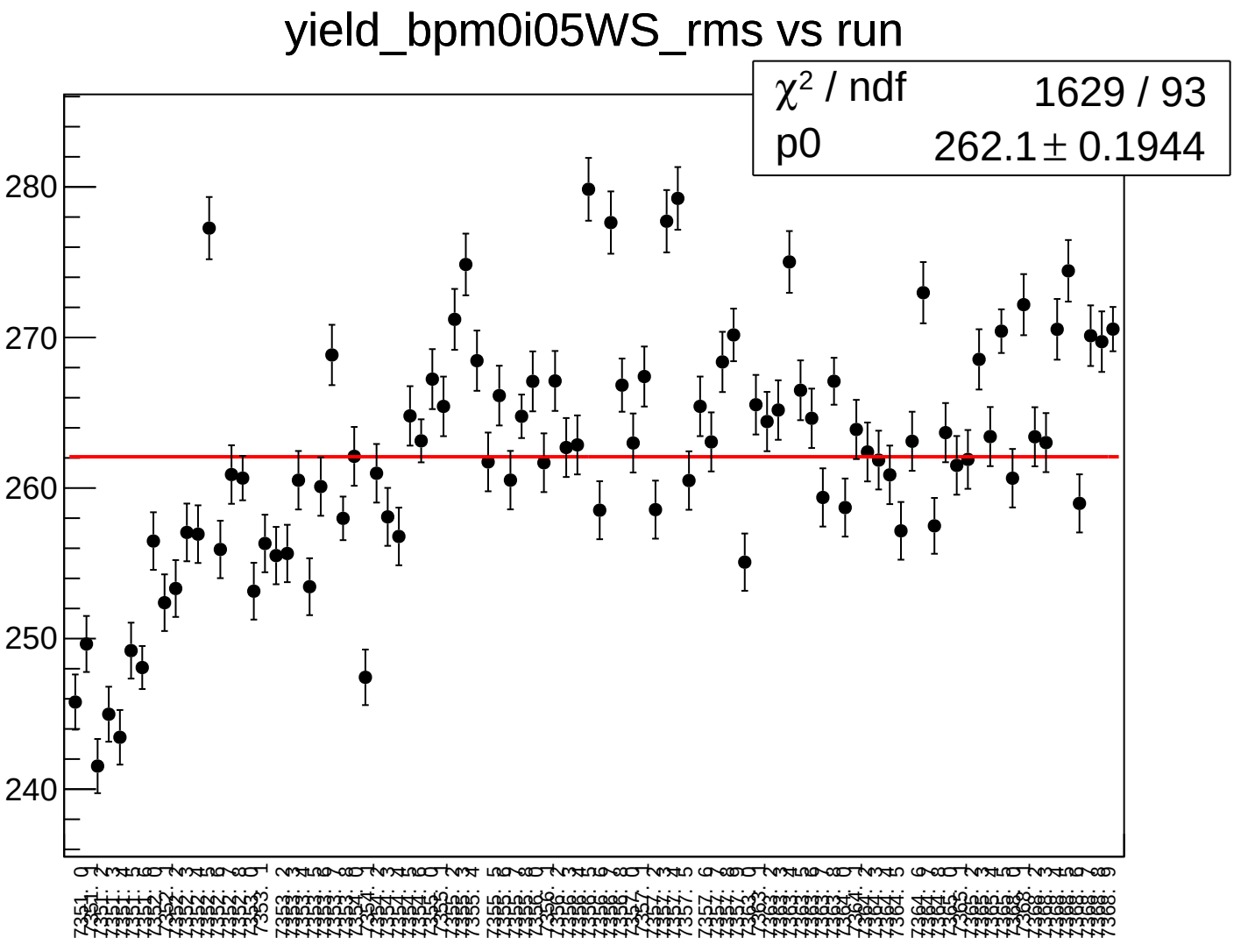

yield_bpm0i02WS_rms vs run
χ² / ndf 1324 / 93
p0 290.5 ± 0.2155
310
300
290
280
270
260

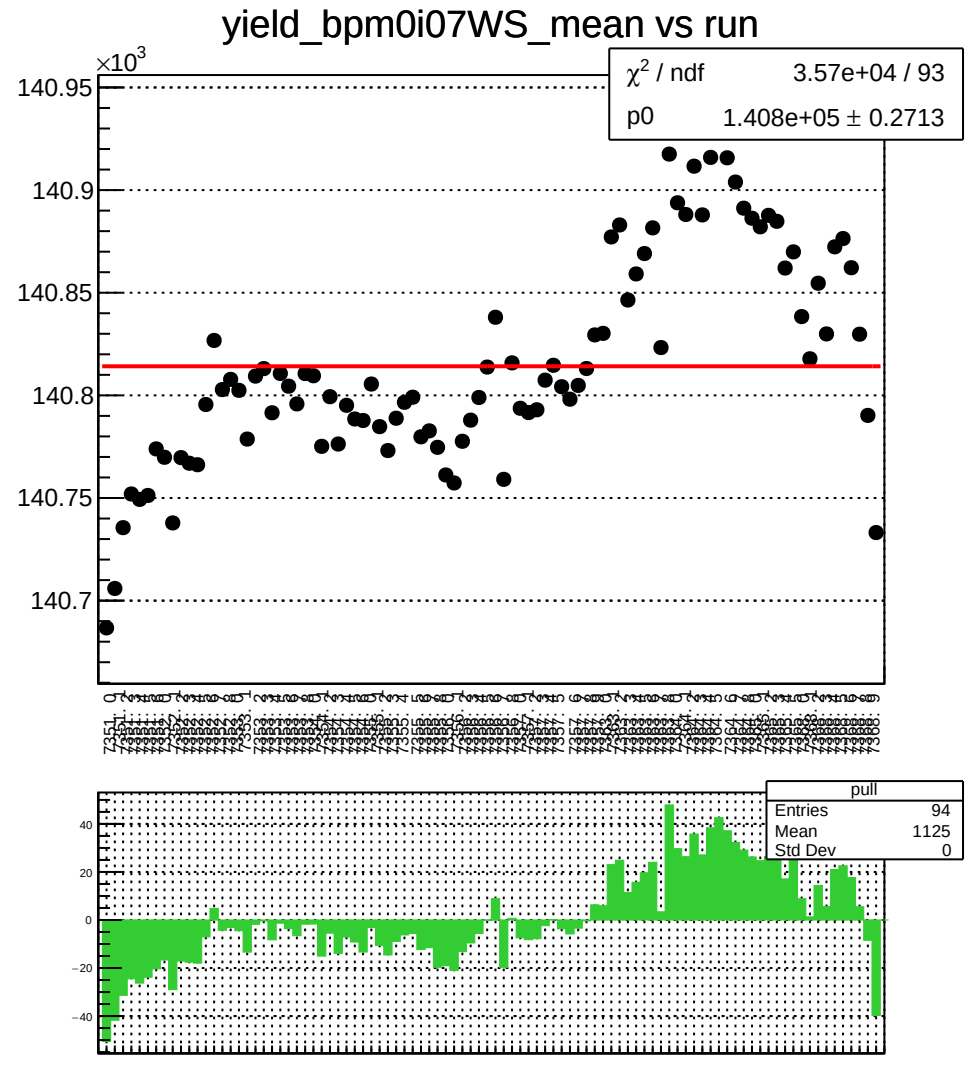

yield_bpm0i02aWS_mean vs run
×10^3
140.5
140.4
140.3
140.2
140.1
140
139.9
139.8
χ² / ndf 2.385e+05 / 93
p0 1.402e+05 ± 0.2758
pull
Entries 94
Mean 709.8
Std Dev 0
100
50
0
−50
−100
pull1D
Entries 94
Mean −0.07235
Std Dev 4.816
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

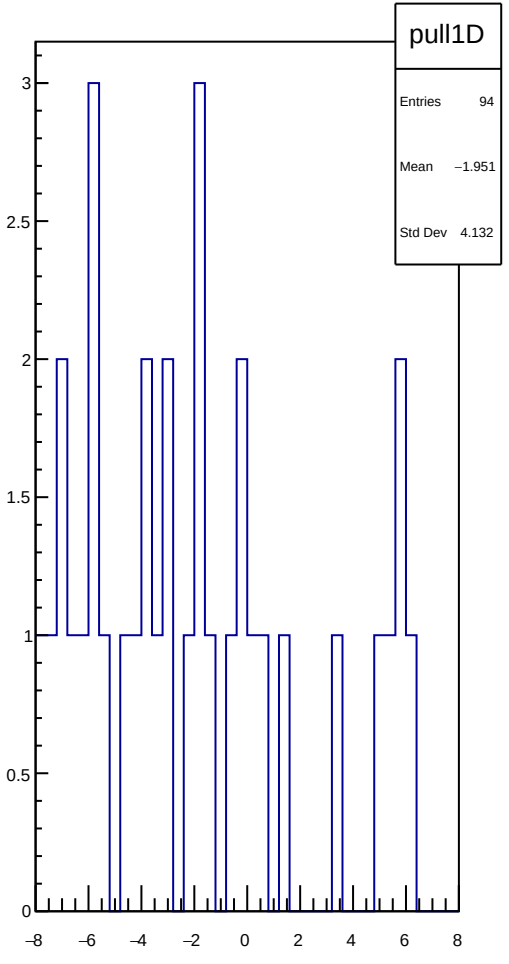

yield_bpm0i02aWS_rms vs run
χ² / ndf 2638 / 93
p0 262.9 ± 0.1951
310
300
290
280
270
260
250
240
230

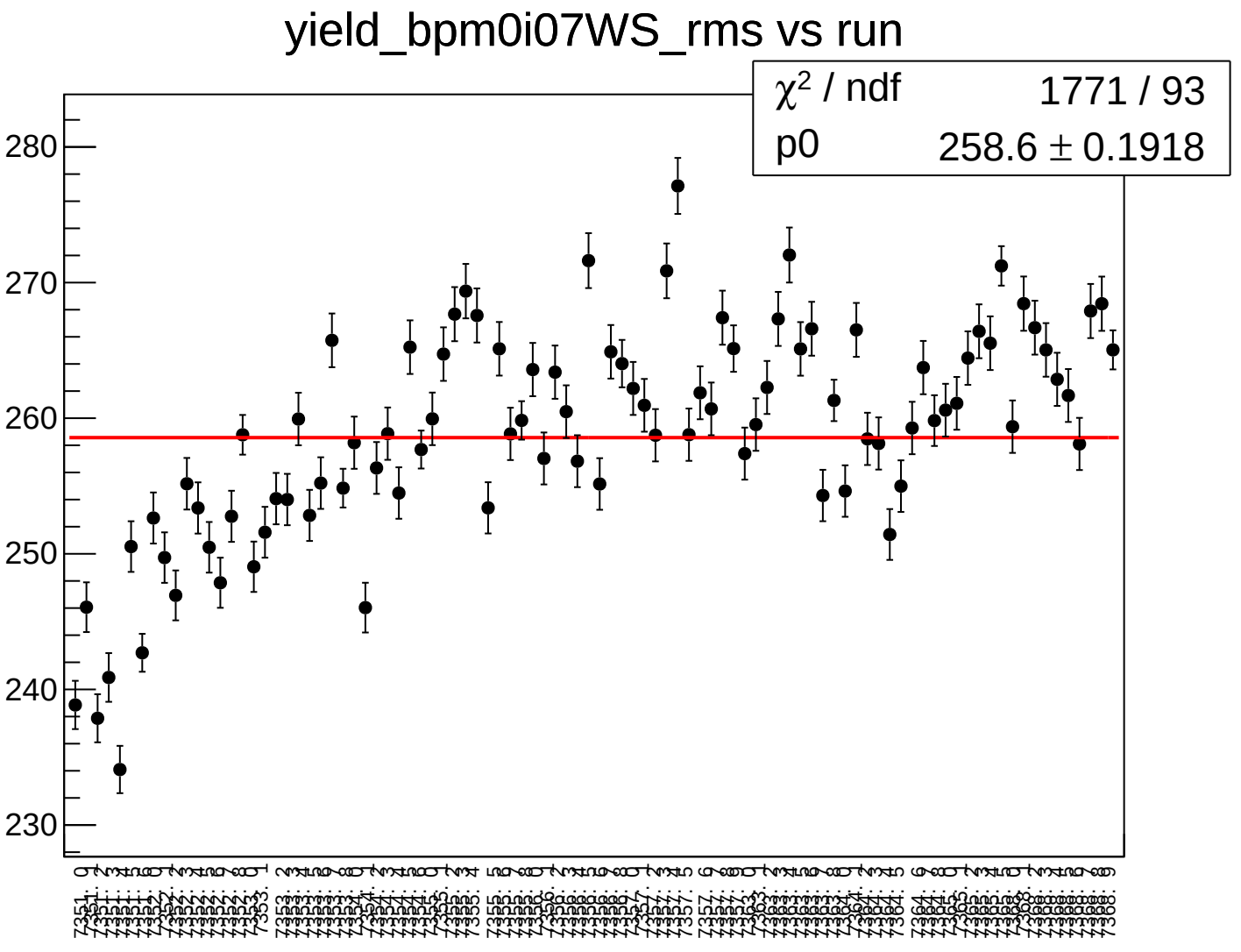

yield_bpm0i05WS_mean vs run
×10^3
χ² / ndf 5.208e+05 / 93
p0 1.444e+05 ± 0.275
144.8
144.7
144.6
144.5
144.4
144.3
144.2
144.1
144
pull
Entries 94
Mean 3.274e+04
Std Dev 0
100
50
0
−50
−100
−150
−200

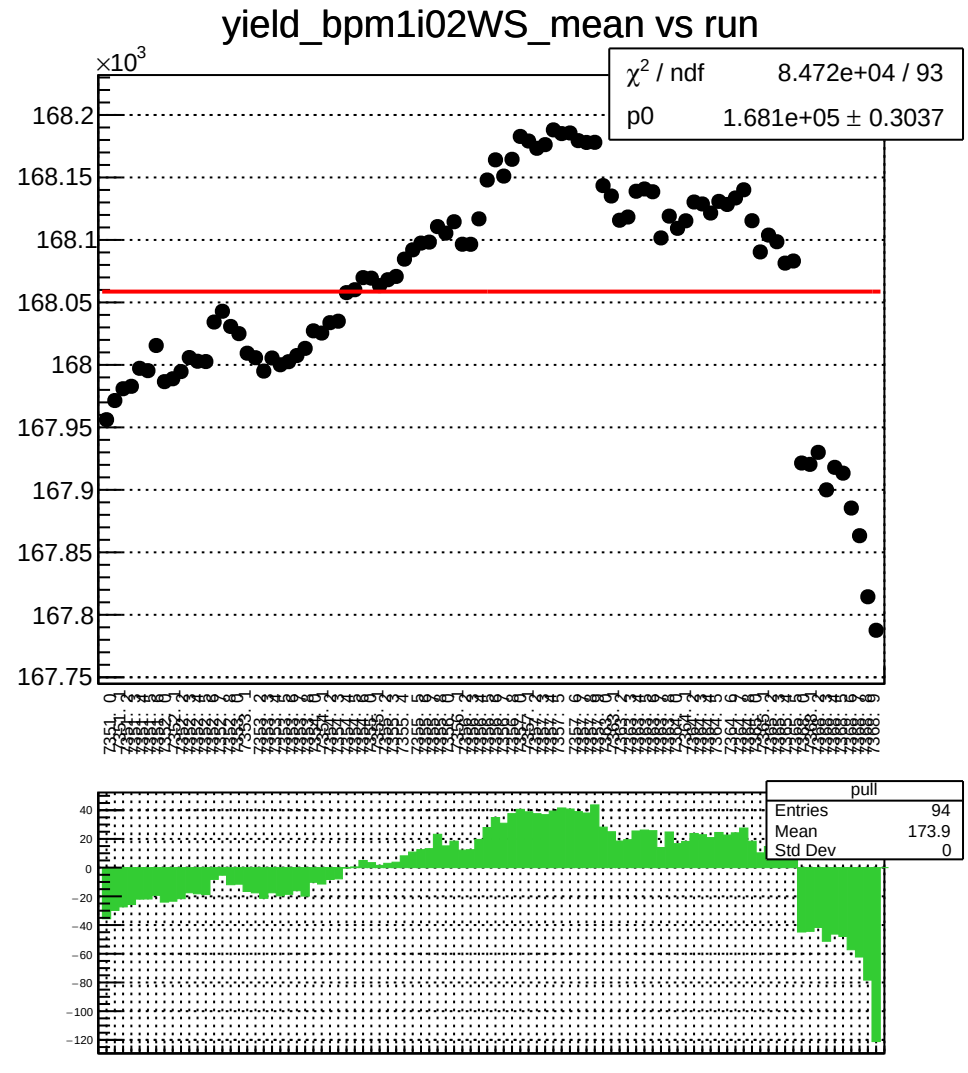

pull1D
Entries 94
Mean −2.284
Std Dev 4.983
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

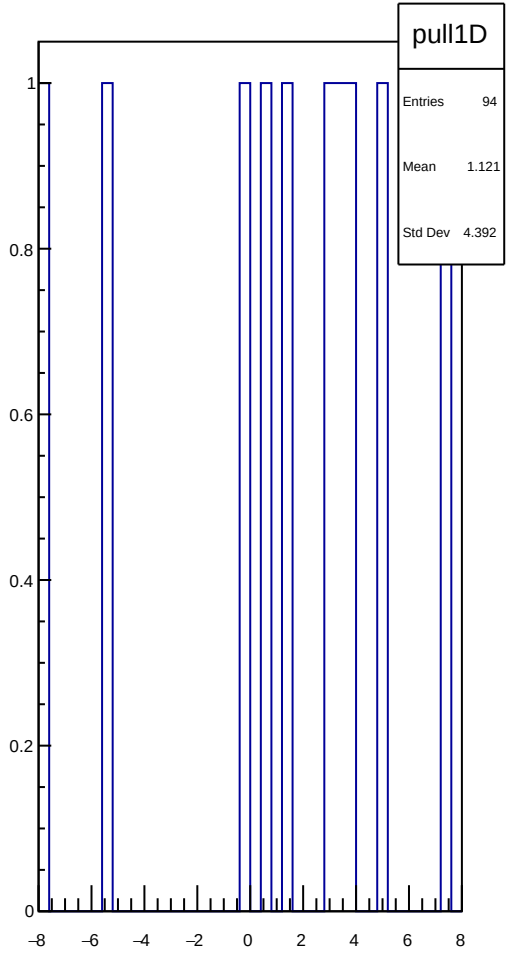

yield_bpm0i05WS_rms vs run
χ² / ndf 1629 / 93
p0 262.1 ± 0.1944
280
270
260
250
240

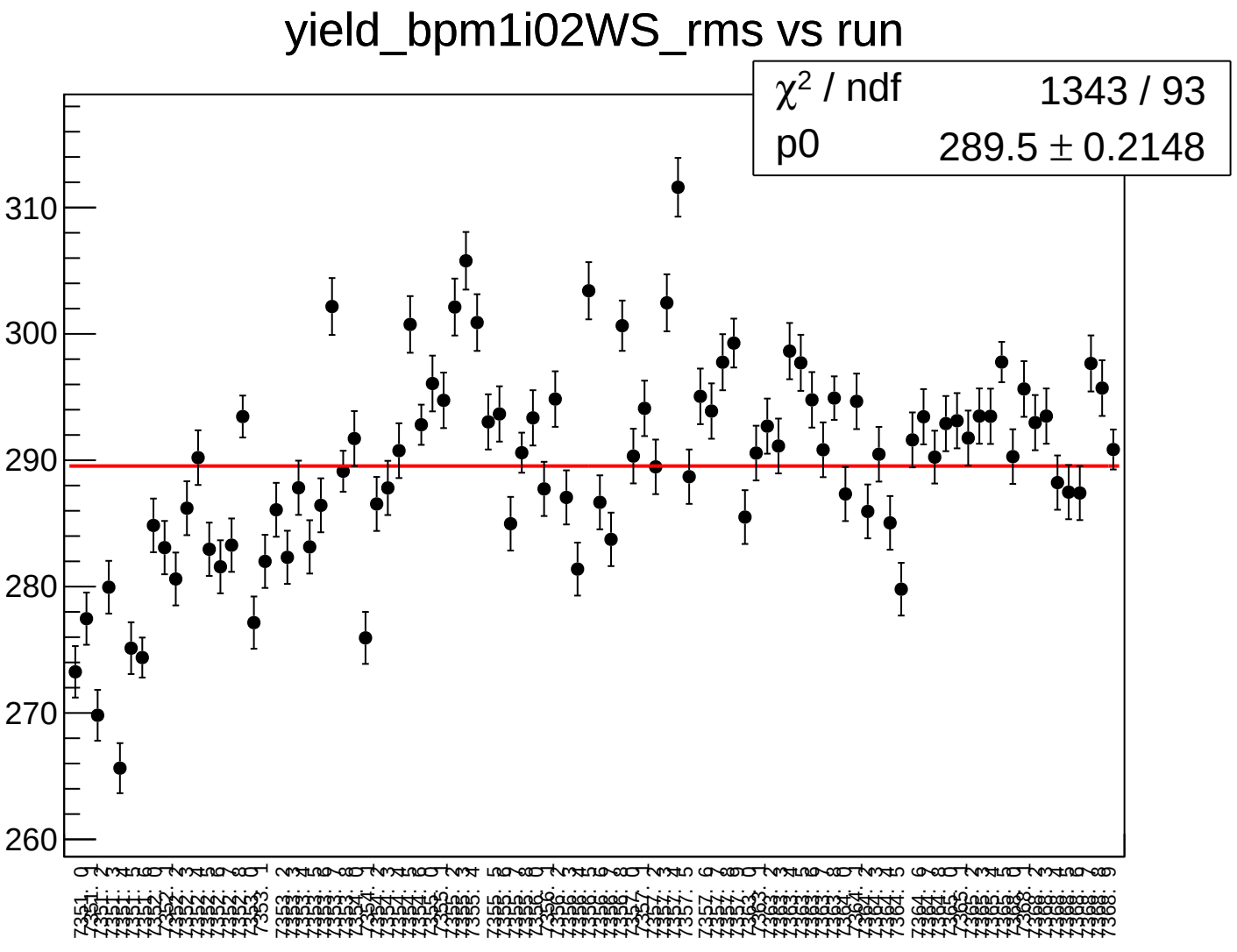

yield_bpm0i07WS_mean vs run
×10^3
140.95
140.9
140.85
140.8
140.75
140.7
χ² / ndf 3.57e+04 / 93
p0 1.408e+05 ± 0.2713
pull
Entries 94
Mean 1125
Std Dev 0
40
20
0
−20
−40

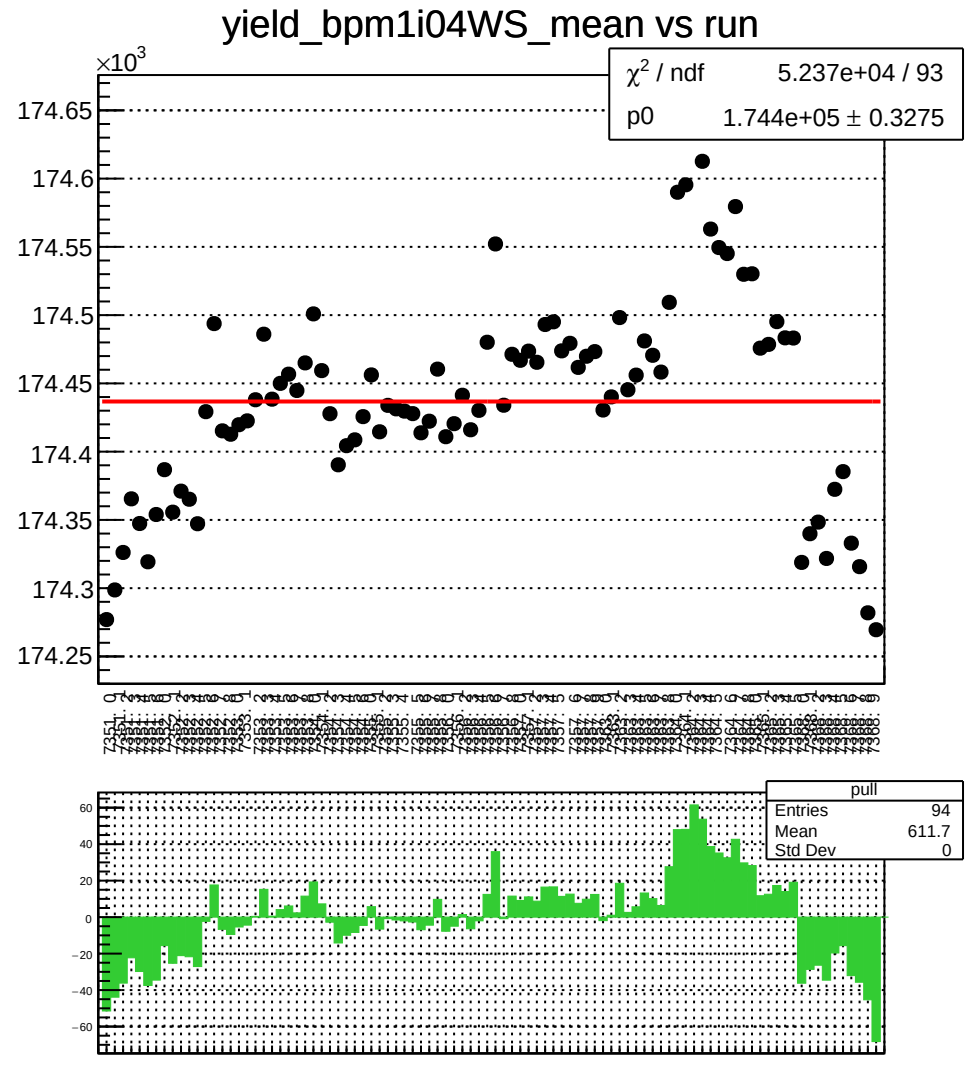

pull1D
Entries 94
Mean −1.951
Std Dev 4.132
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

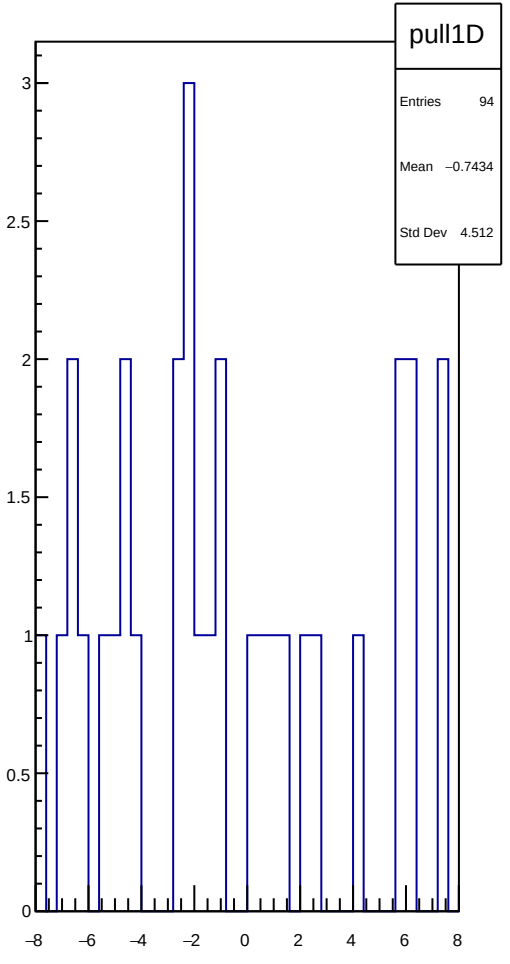

yield_bpm0i07WS_rms vs run
χ² / ndf 1771 / 93
p0 258.6 ± 0.1918
280
270
260
250
240
230

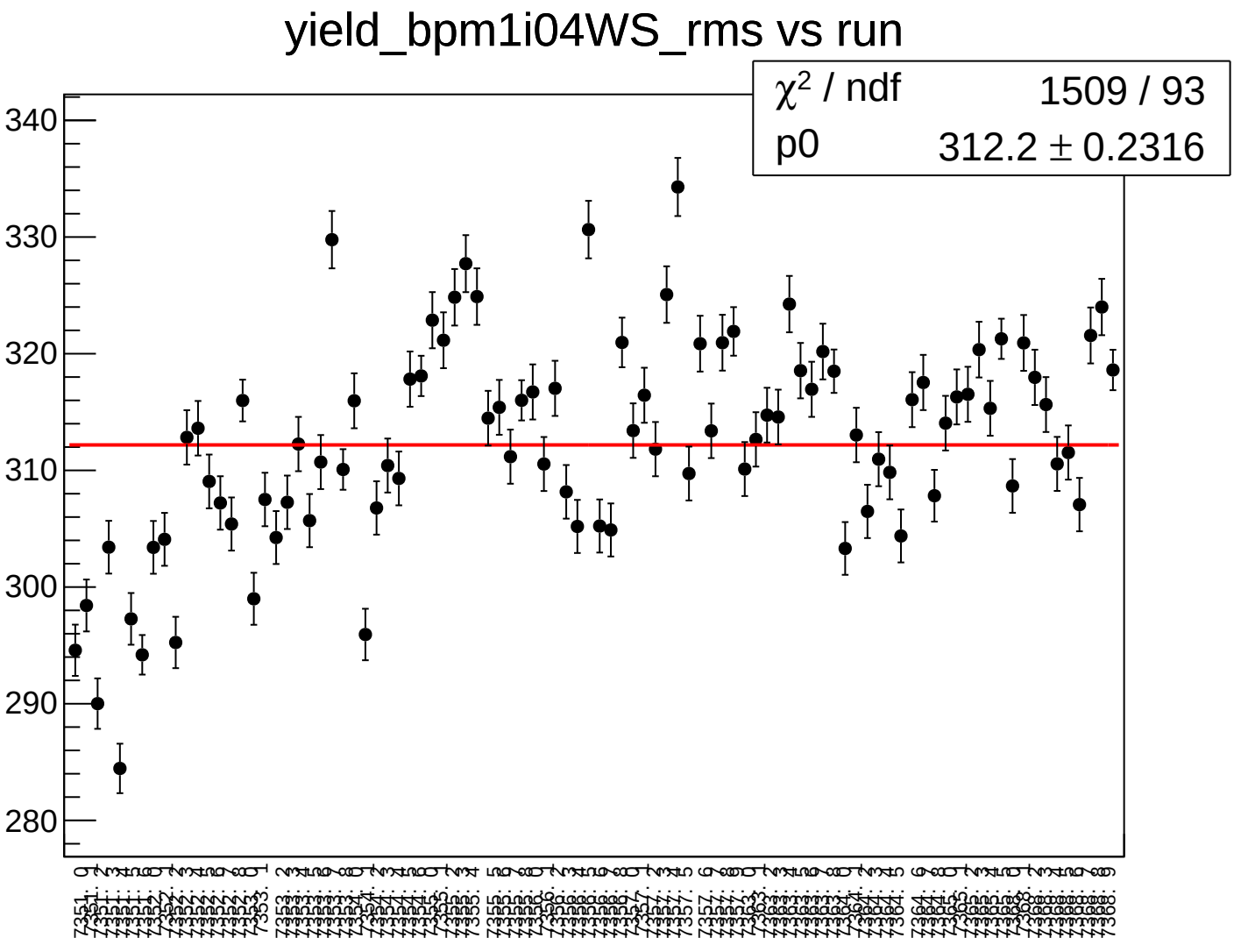

yield_bpm1i02WS_mean vs run
×10^3
χ^2 / ndf 8.472e+04 / 93
p0 1.681e+05 ± 0.3037
168.2
168.15
168.1
168.05
168
167.95
167.9
167.85
167.8
167.75
pull
Entries 94
Mean 173.9
Std Dev 0
40
20
0
−20
−40
−60
−80
−100
−120

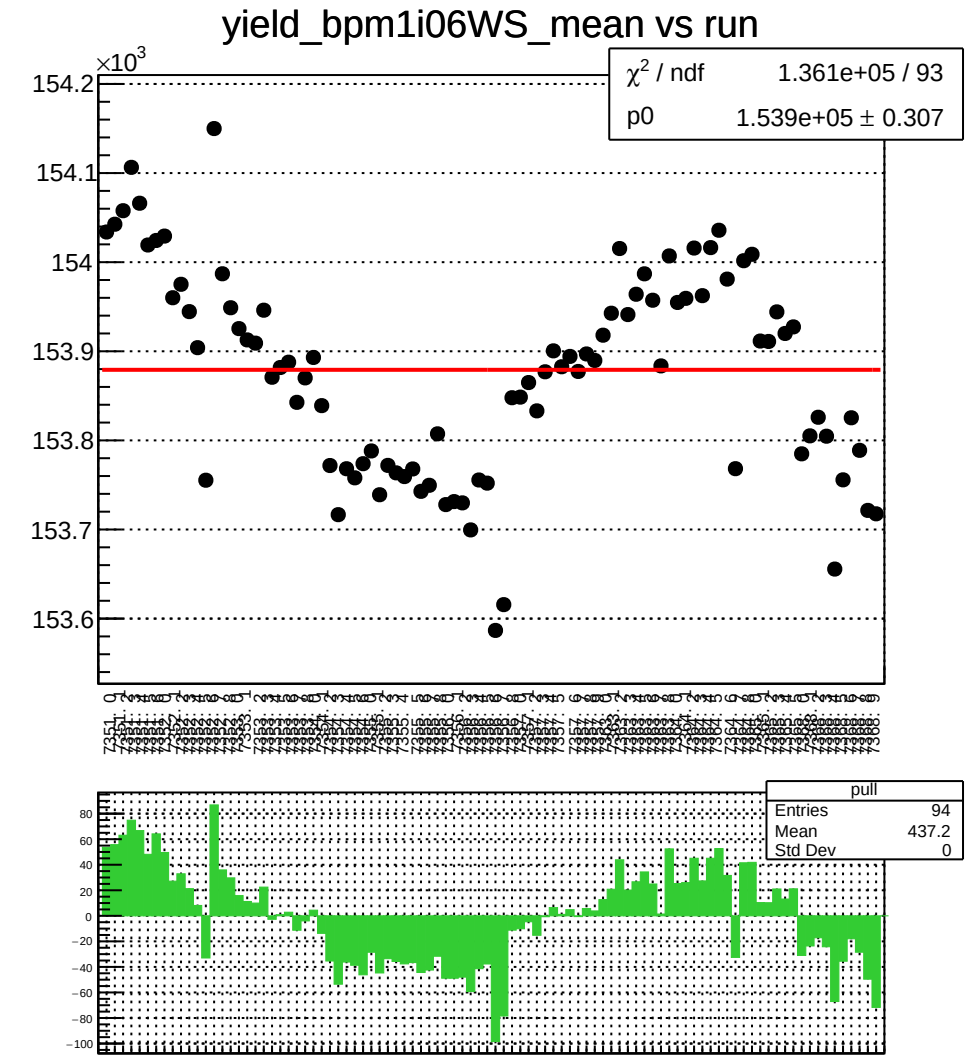

pull1D
Entries 94
Mean 1.121
Std Dev 4.392
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

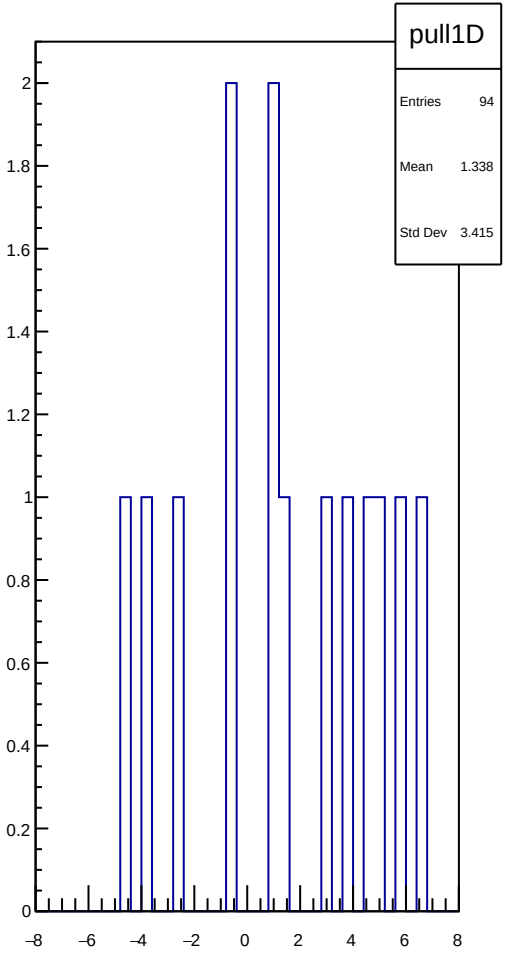

yield_bpm1i02WS_rms vs run
χ² / ndf 1343 / 93
p0 289.5 ± 0.2148
310
300
290
280
270
260

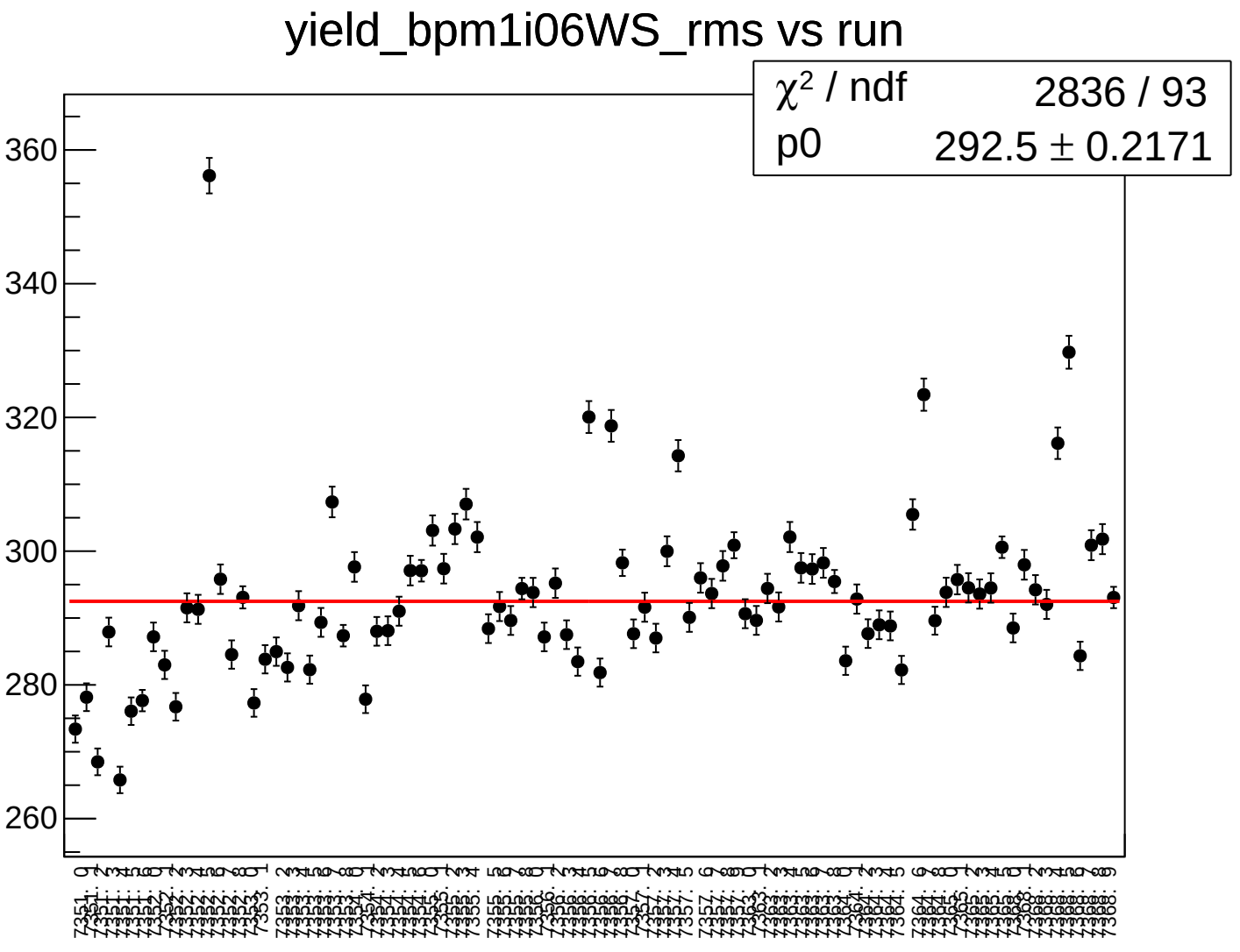

yield_bpm1i04WS_mean vs run
×10^3
χ² / ndf 5.237e+04 / 93
p0 1.744e+05 ± 0.3275
174.65
174.6
174.55
174.5
174.45
174.4
174.35
174.3
174.25
pull
Entries 94
Mean 611.7
Std Dev 0
60
40
20
0
−20
−40
−60

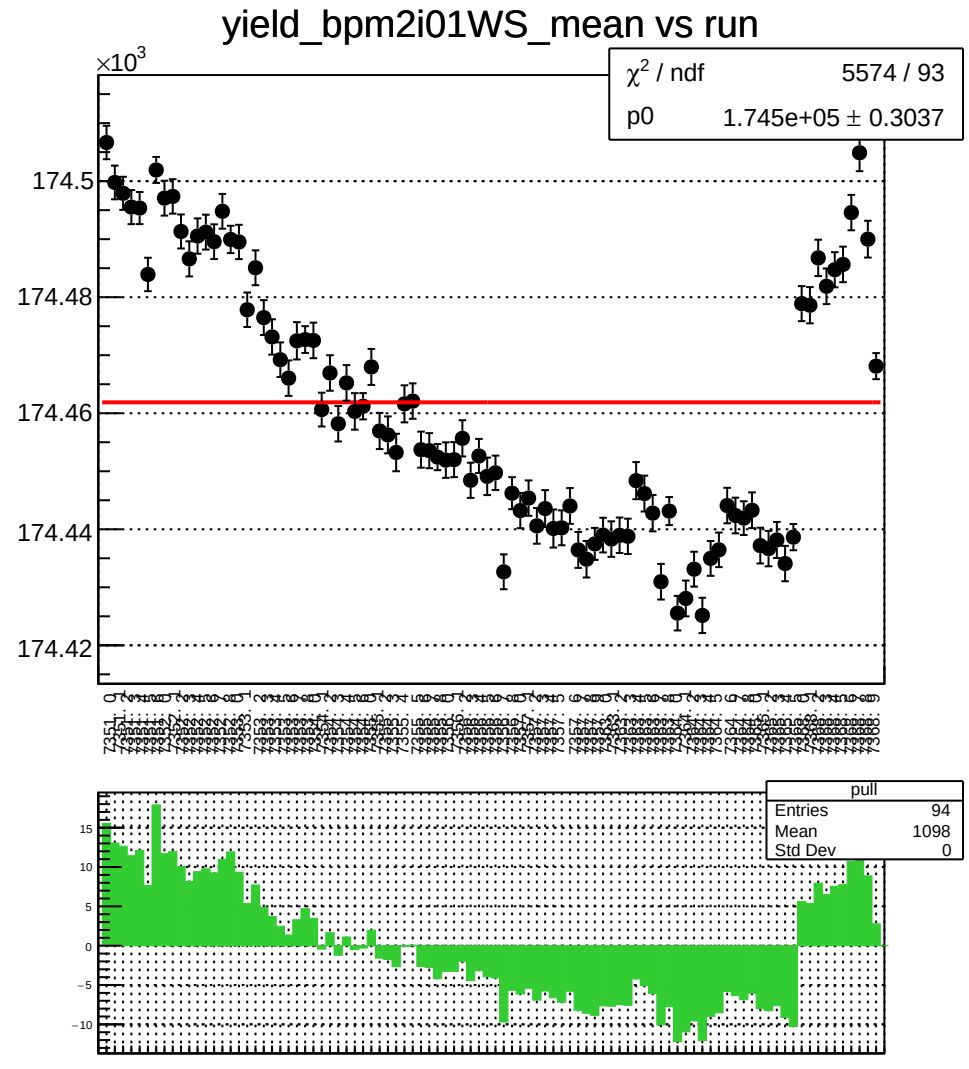

pull1D
Entries 94
Mean −0.7434
Std Dev 4.512
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

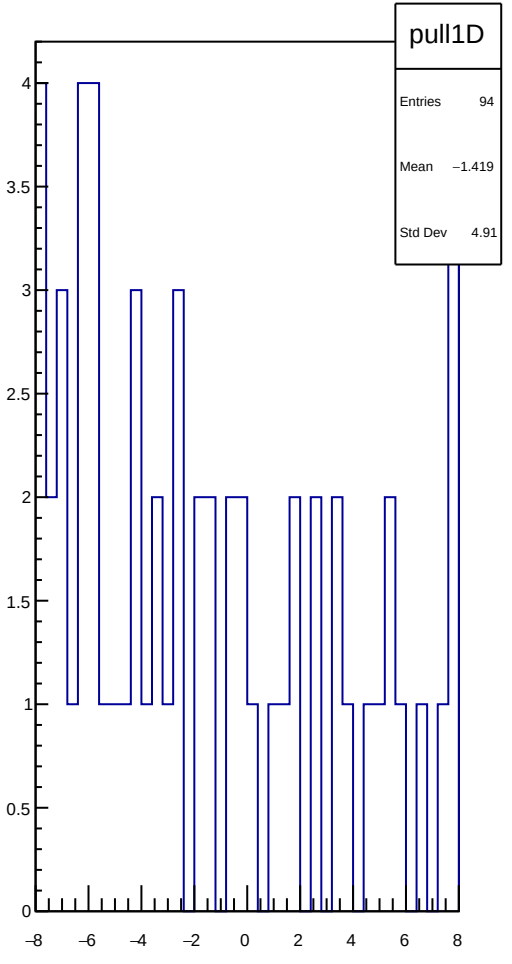

yield_bpm1i04WS_rms vs run
χ² / ndf 1509 / 93
p0 312.2 ± 0.2316
340
330
320
310
300
290
280

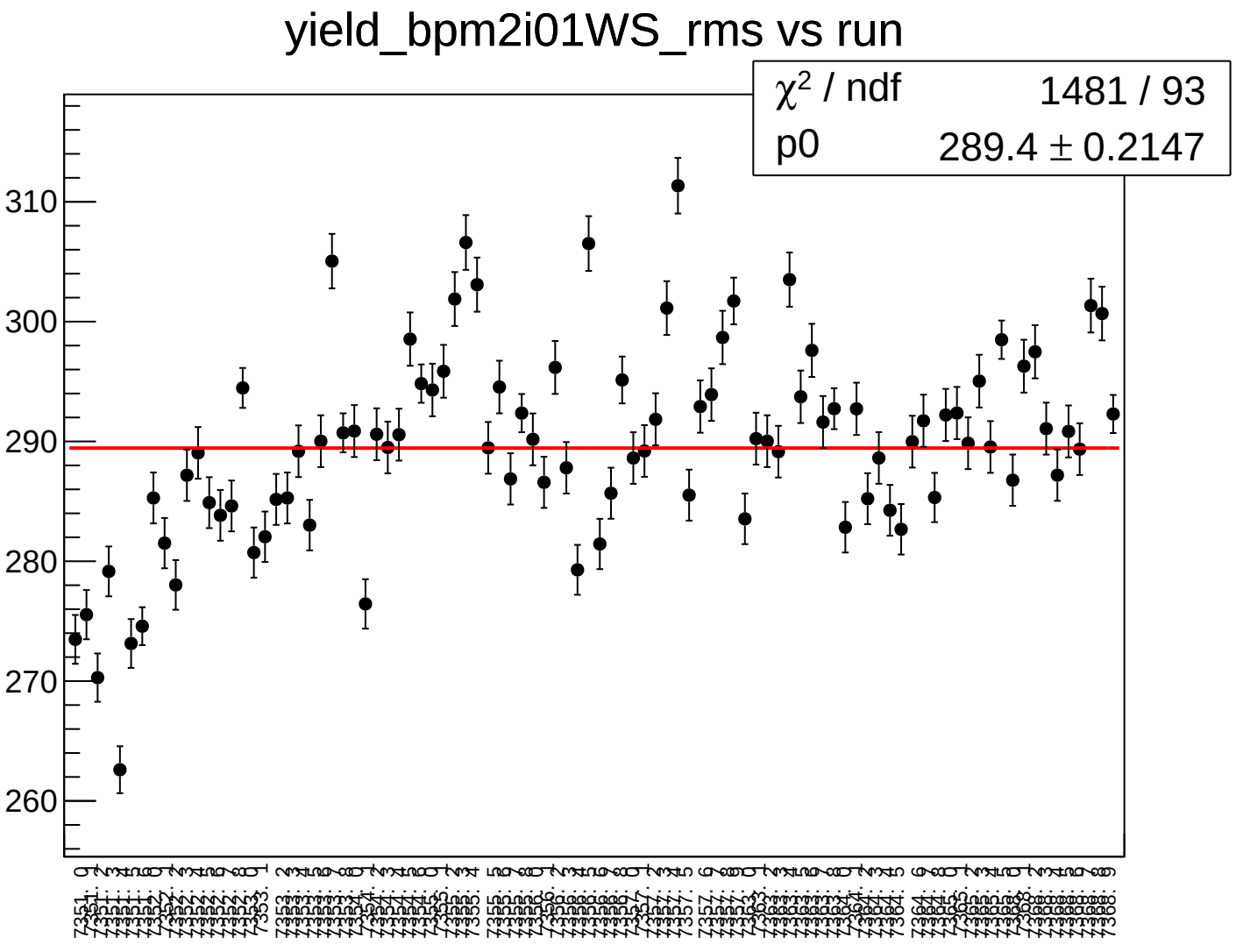

yield_bpm1i06WS_mean vs run
×10^3
154.2
154.1
154
153.9
153.8
153.7
153.6
χ² / ndf 1.361e+05 / 93
p0 1.539e+05 ± 0.307
pull
Entries 94
Mean 437.2
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100

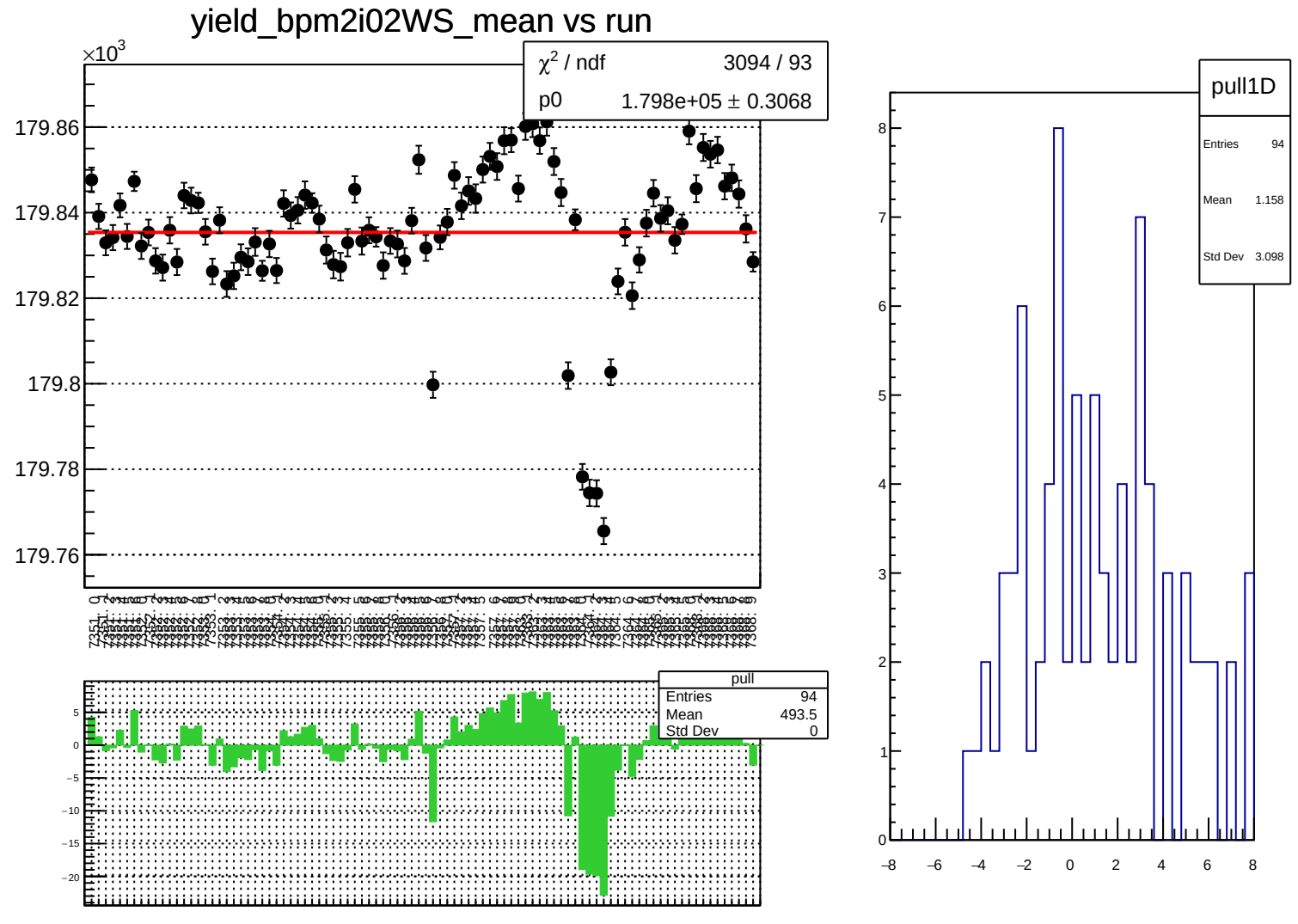

pull1D
Entries 94
Mean 1.338
Std Dev 3.415
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

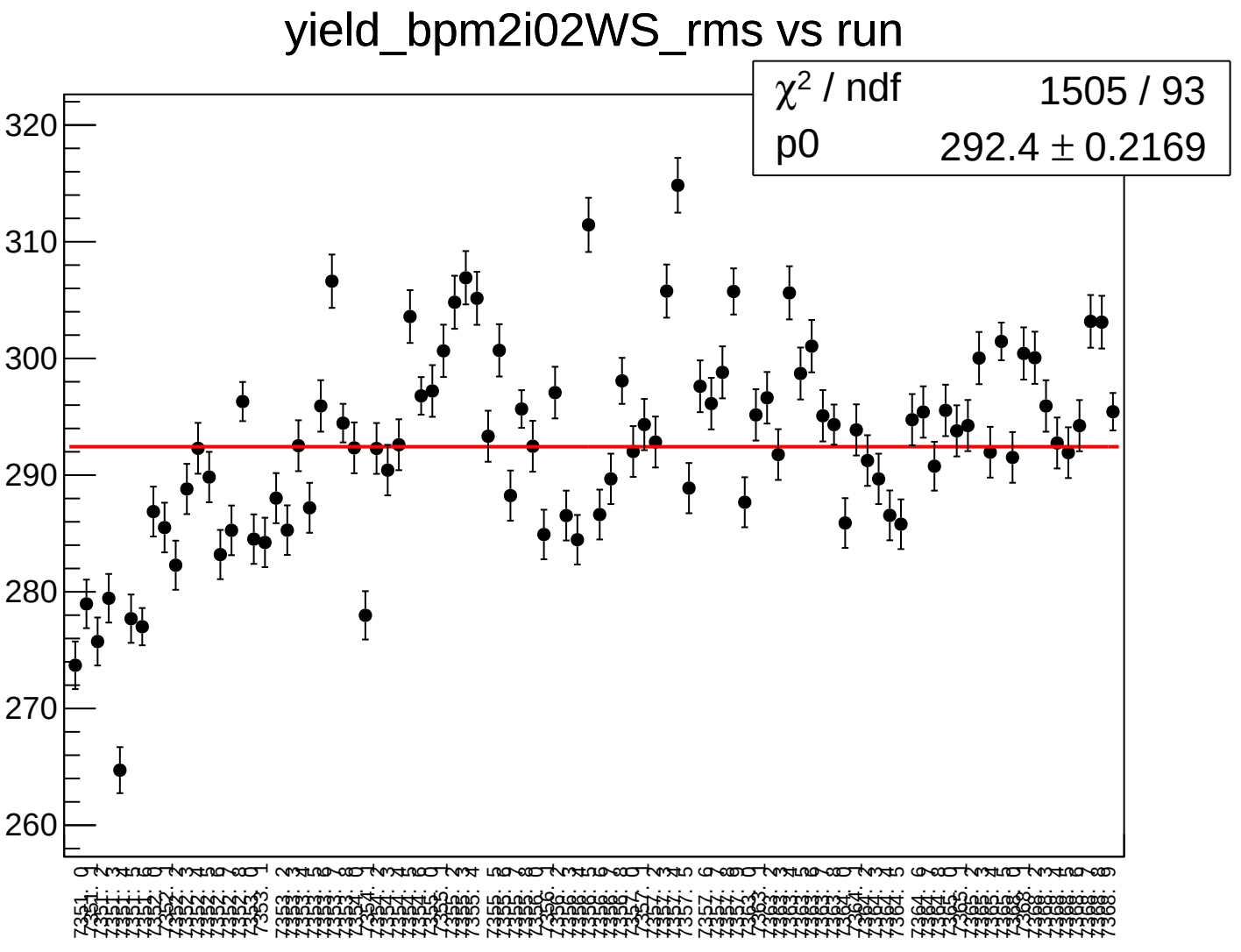

yield_bpm1i06WS_rms vs run
χ² / ndf 2836 / 93
p0 292.5 ± 0.2171
360
340
320
300
280
260

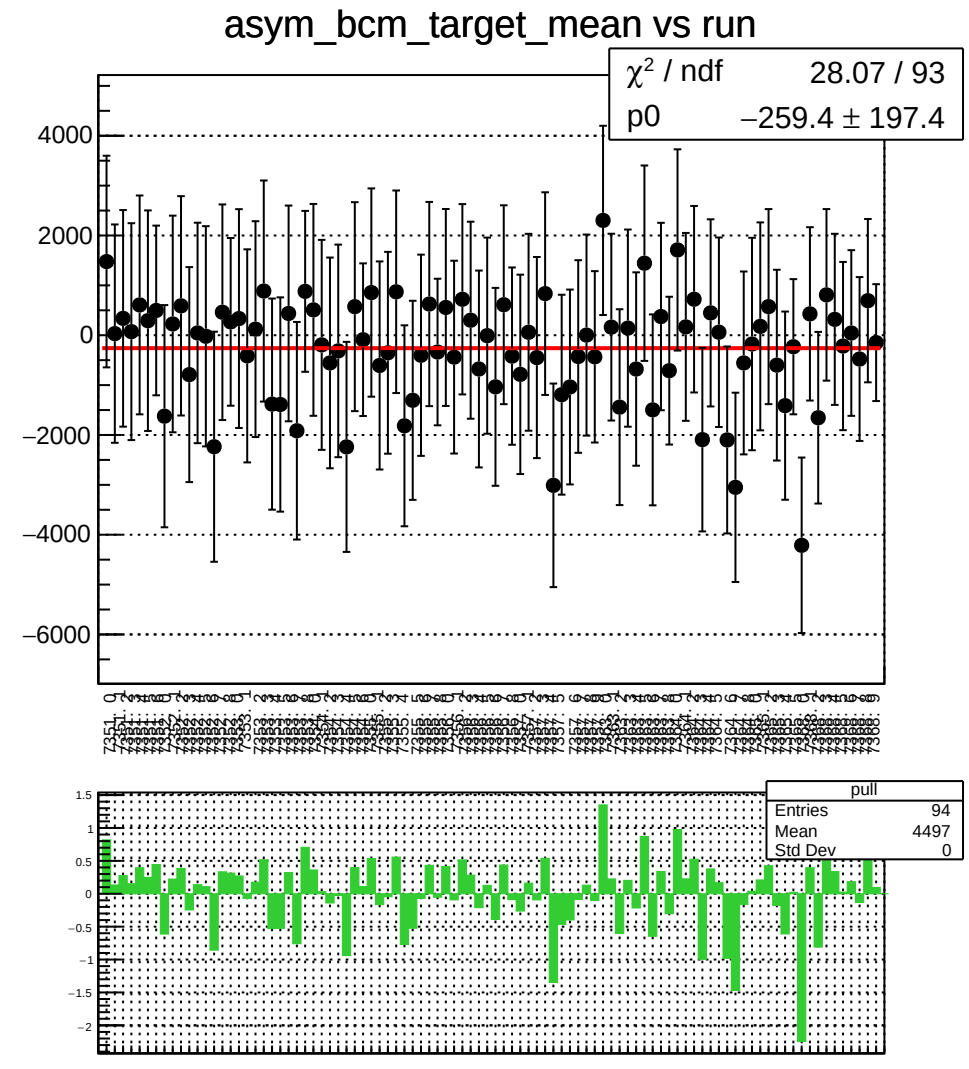

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 5574 / 93
p0 1.745e+05 ± 0.3037
174.5
174.48
174.46
174.44
174.42
pull
Entries 94
Mean 1098
Std Dev 0
15
10
5
0
−5
−10

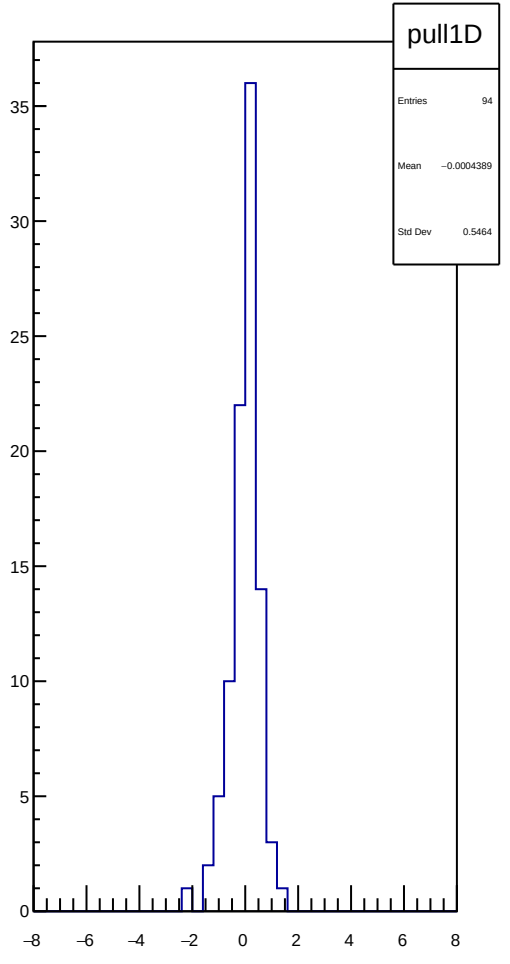

pull1D
Entries 94
Mean −1.419
Std Dev 4.91
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

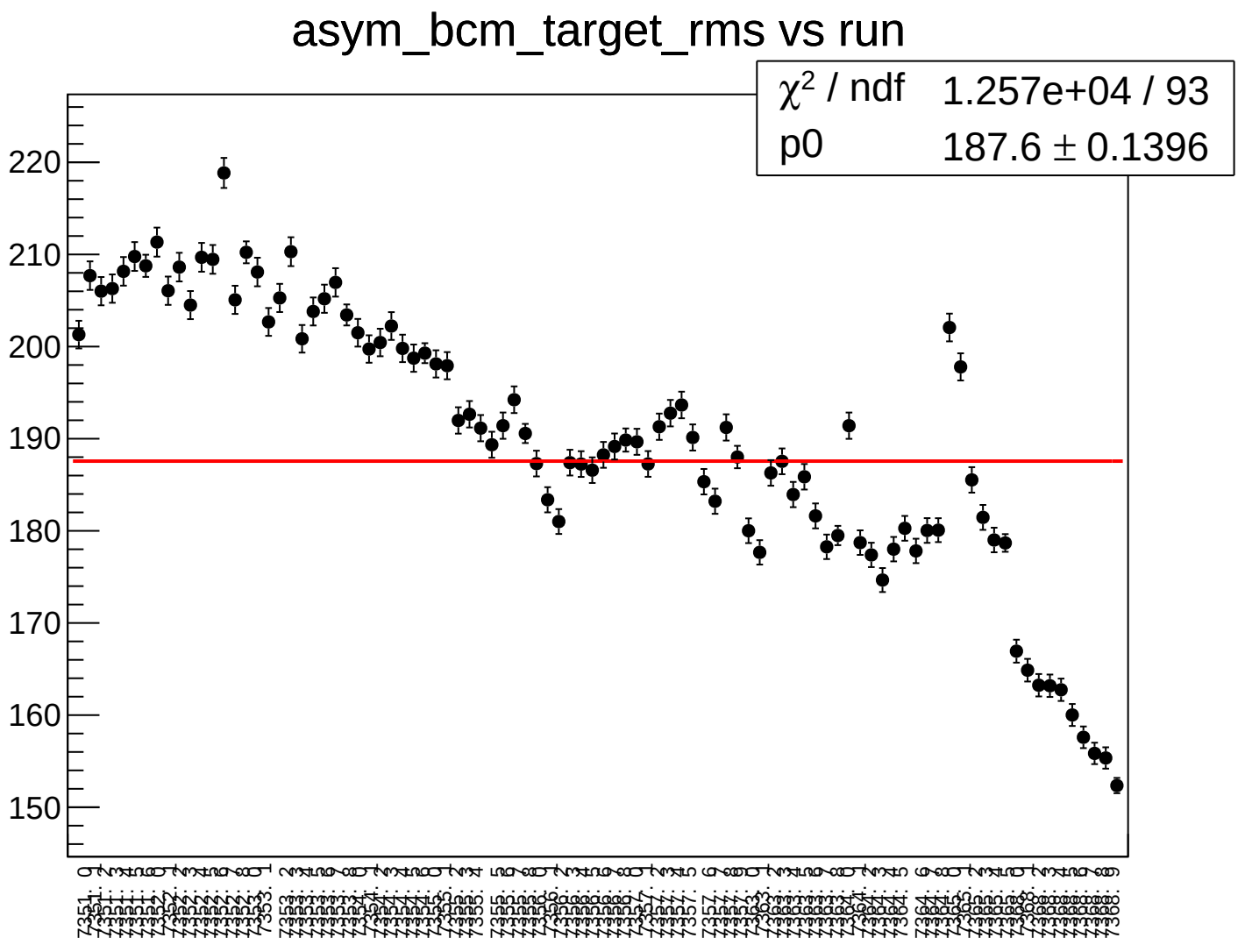

yield_bpm2i01WS_rms vs run
χ² / ndf 1481 / 93
p0 289.4 ± 0.2147
310
300
290
280
270
260

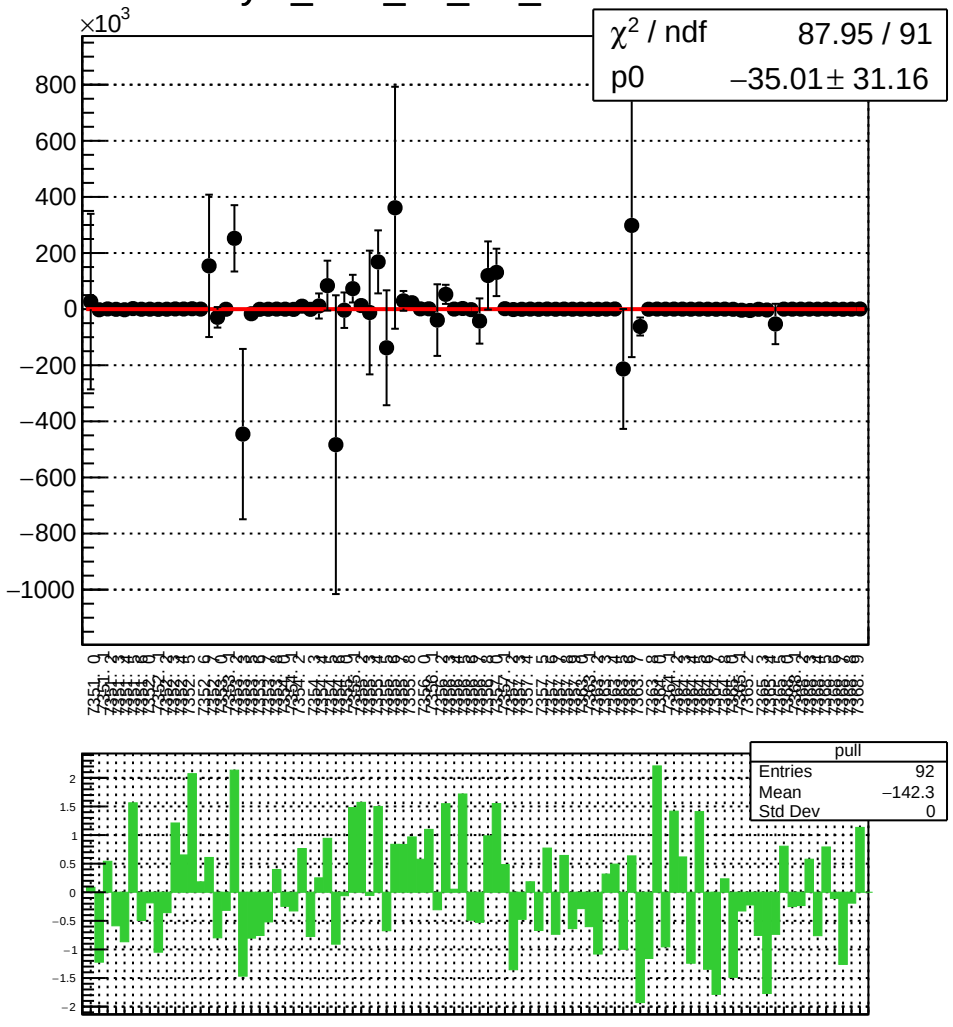

yield_bpm2i02WS_mean vs run
×10^3
χ² / ndf 3094 / 93
p0 1.798e+05 ± 0.3068
179.86
179.84
179.82
179.8
179.78
179.76
pull
Entries 94
Mean 493.5
Std Dev 0
pull1D
Entries 94
Mean 1.158
Std Dev 3.098

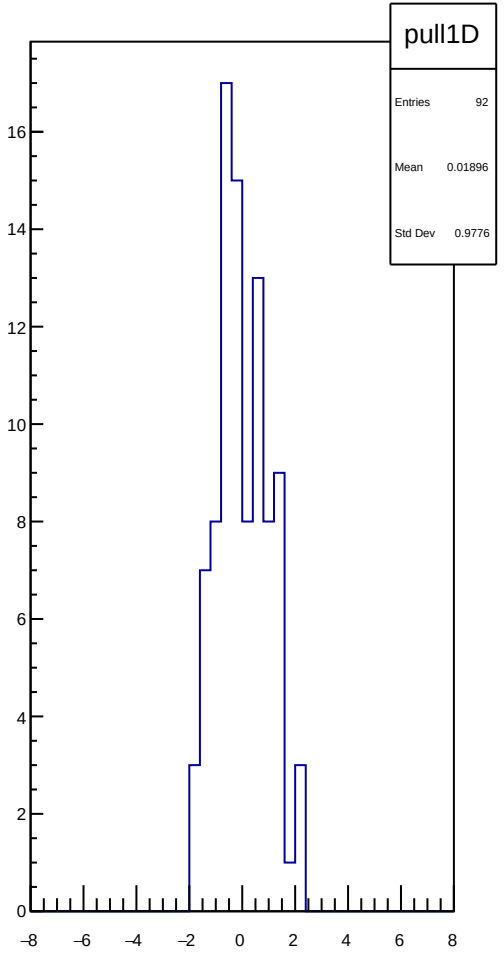

yield_bpm2i02WS_rms vs run
χ² / ndf 1505 / 93
p0 292.4 ± 0.2169
320
310
300
290
280
270
260

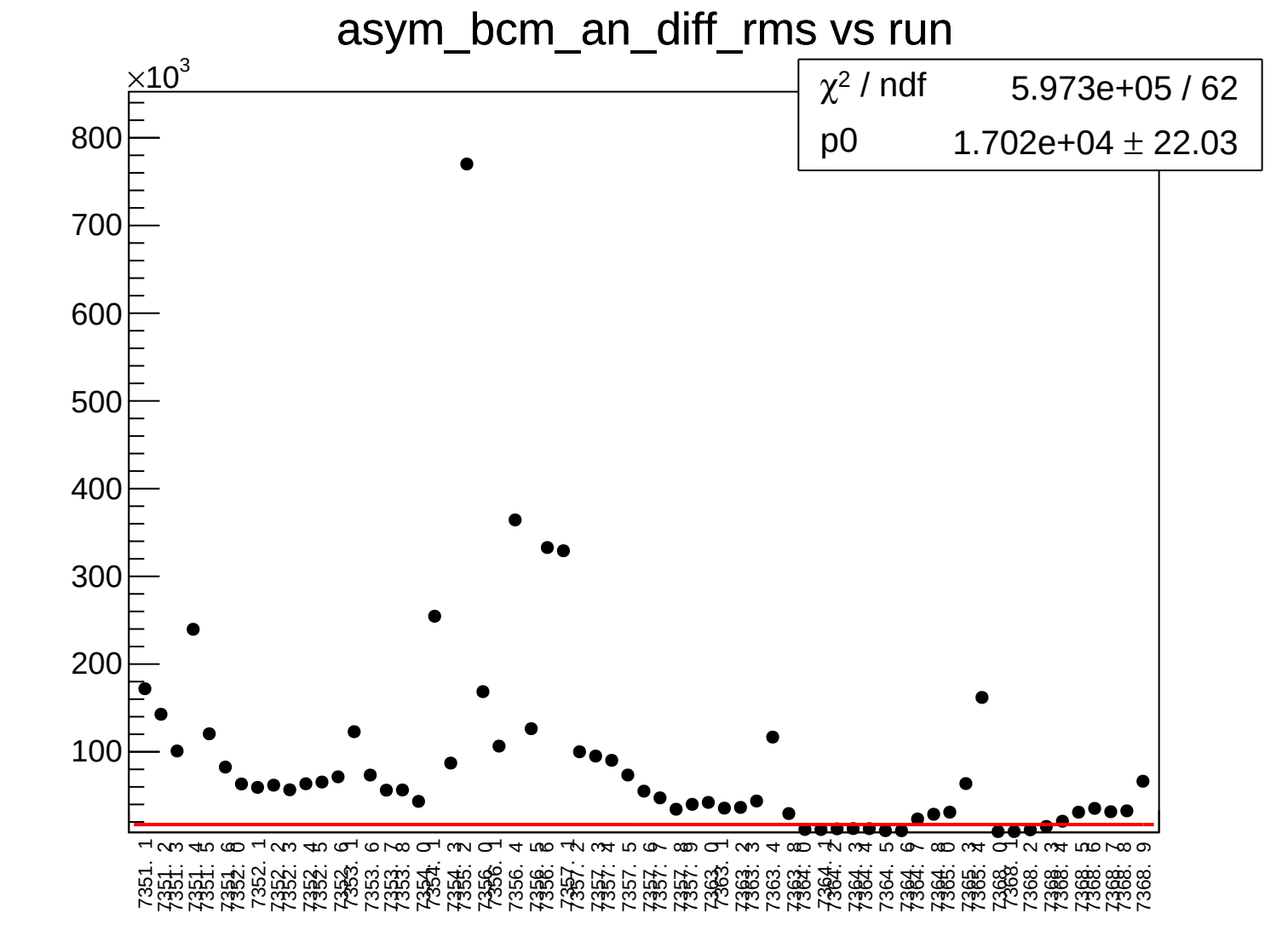

asym_bcm_target_mean vs run
χ² / ndf 28.07 / 93
p0 −259.4 ± 197.4
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean 4497
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

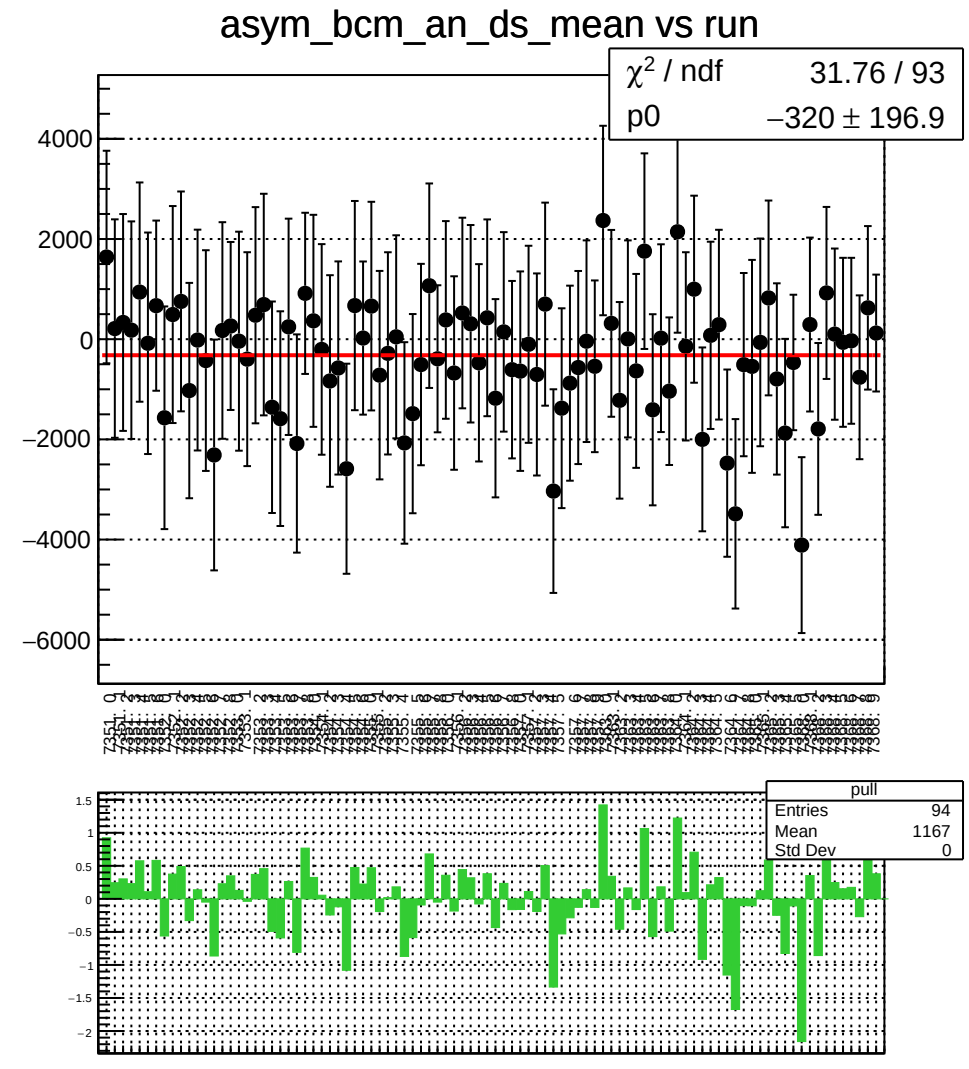

pull1D
Entries 94
Mean −0.0004389
Std Dev 0.5464
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

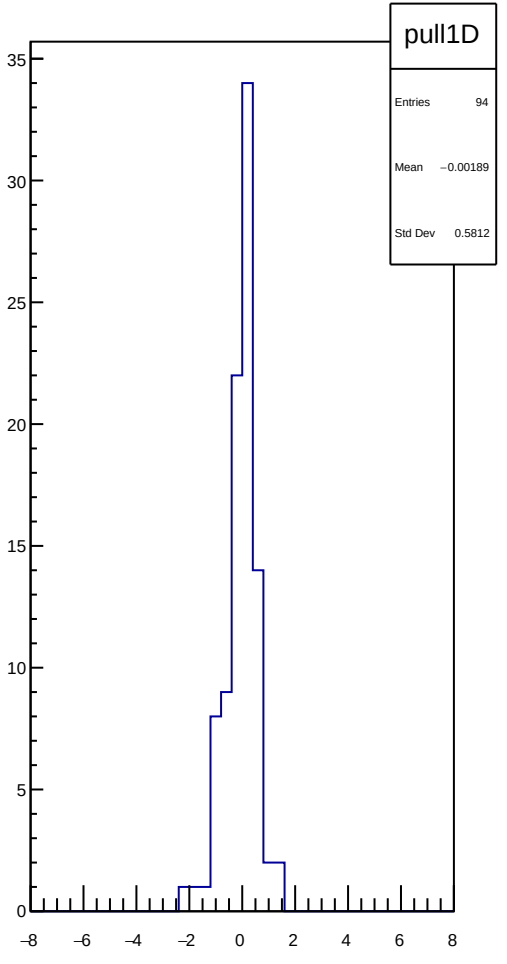

asym_bcm_target_rms vs run
χ^2 / ndf 1.257e+04 / 93
p0 187.6 ± 0.1396
220
210
200
190
180
170
160
150

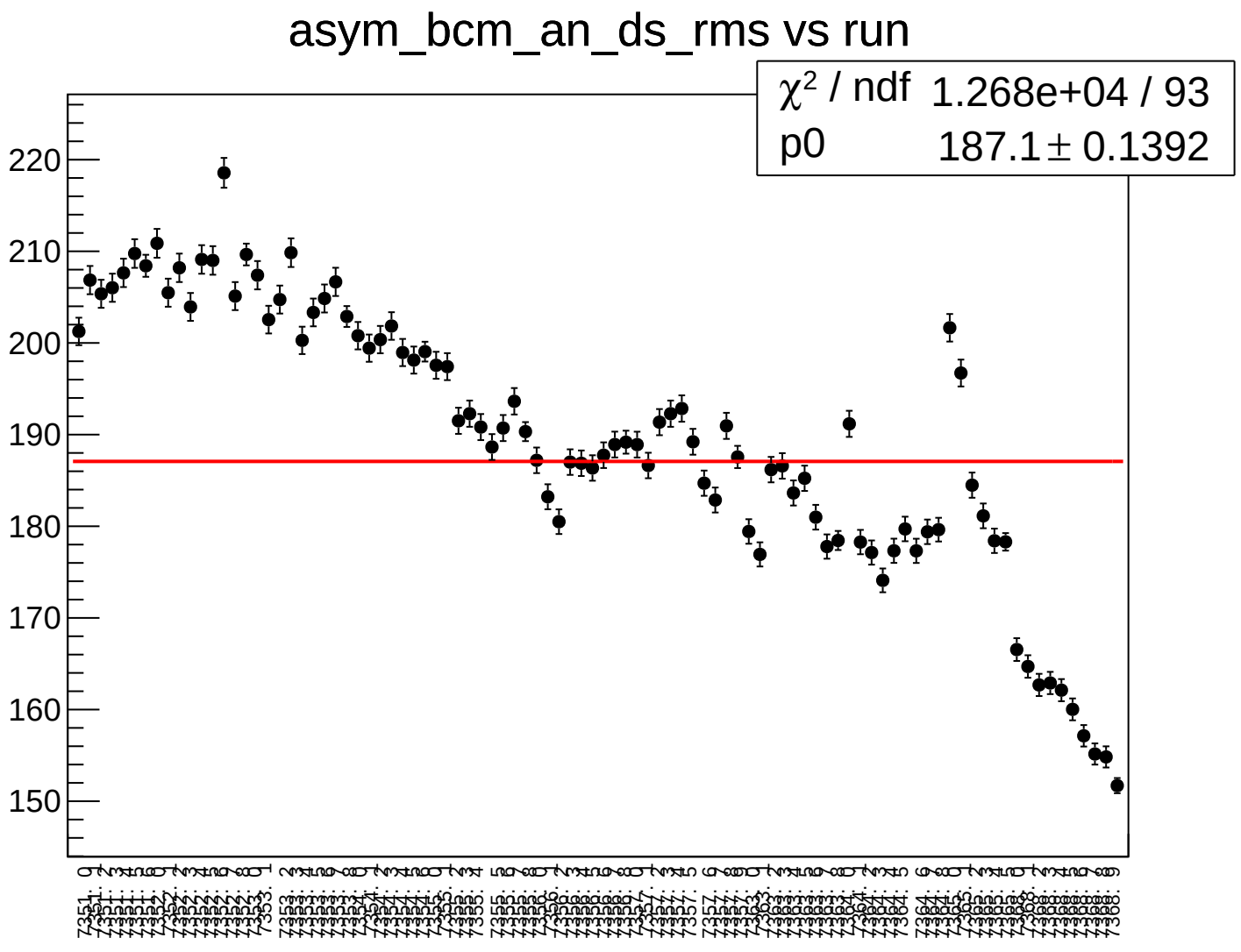

asym_bcm_an_diff_mean vs run
×10^3
χ² / ndf 87.95 / 91
p0 −35.01 ± 31.16
800
600
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 92
Mean −142.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

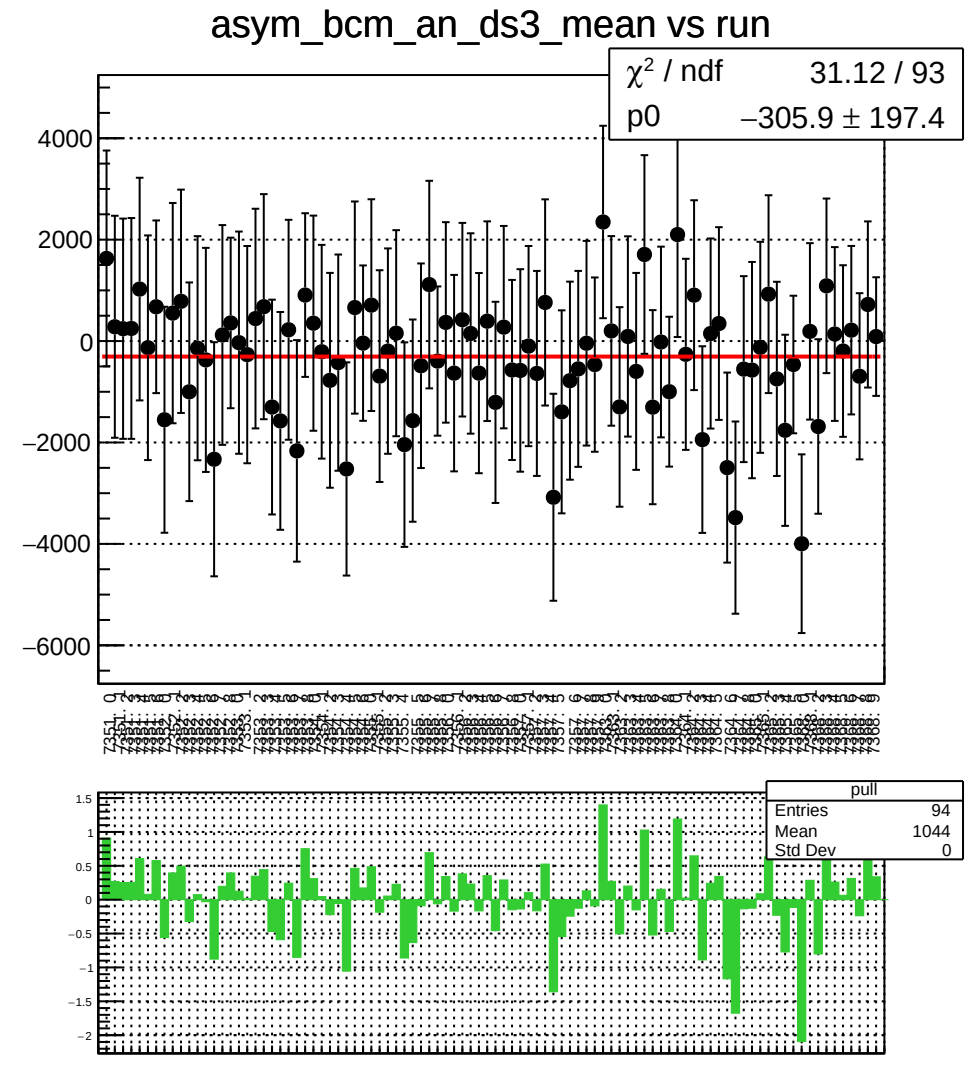

pull1D
Entries 92
Mean 0.01896
Std Dev 0.9776
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

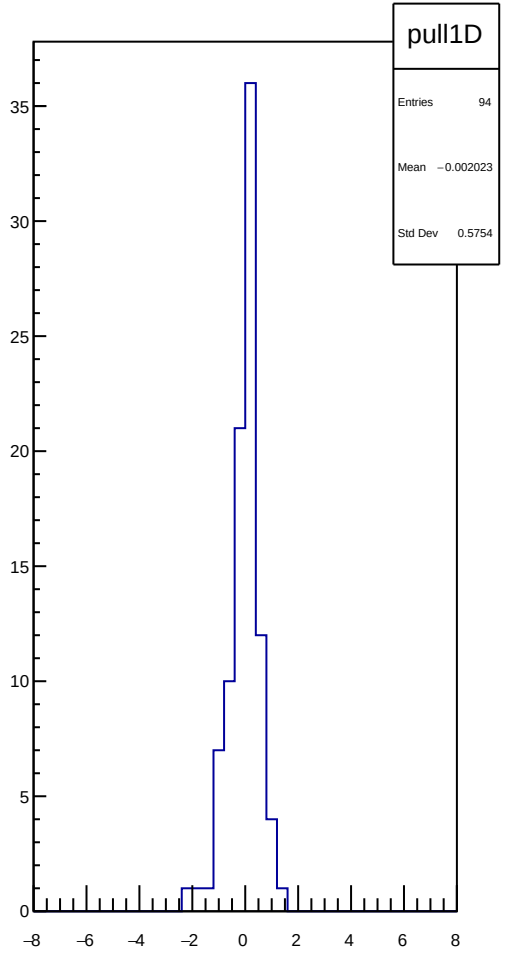

asym_bcm_an_diff_rms vs run
×10^3
800
700
600
500
400
300
200
100
χ² / ndf 5.973e+05 / 62
p0 1.702e+04 ± 22.03

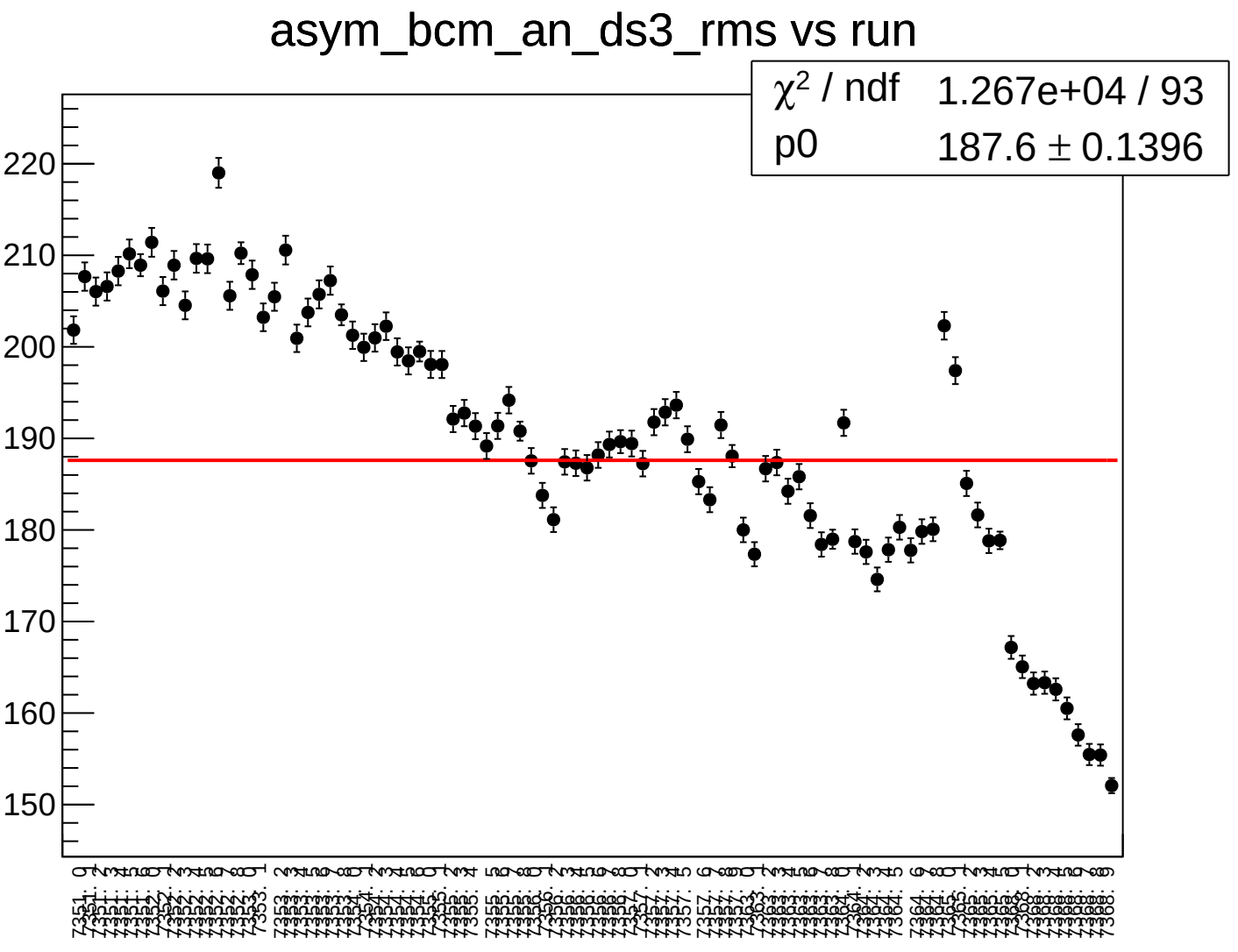

asym_bcm_an_ds_mean vs run
χ² / ndf 31.76 / 93
p0 −320 ± 196.9
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean 1167
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

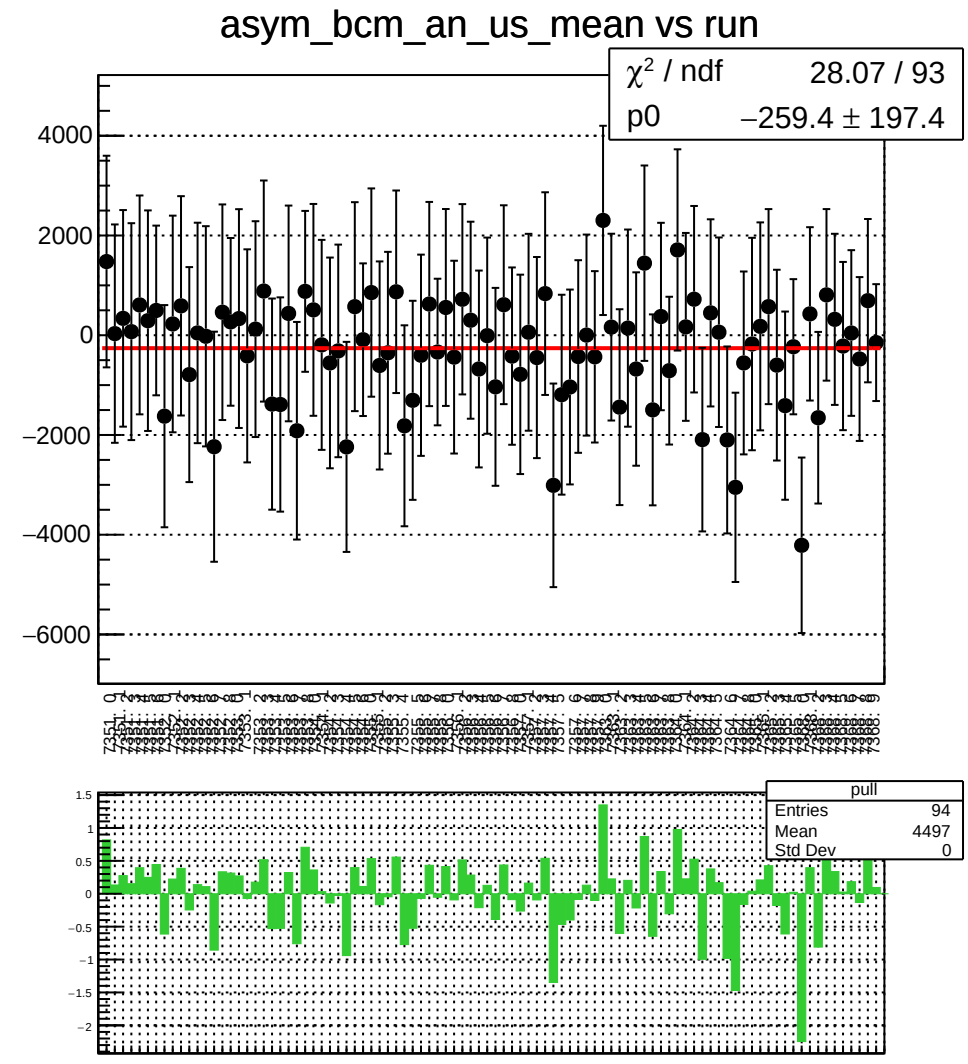

pull1D
Entries 94
Mean −0.00189
Std Dev 0.5812
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

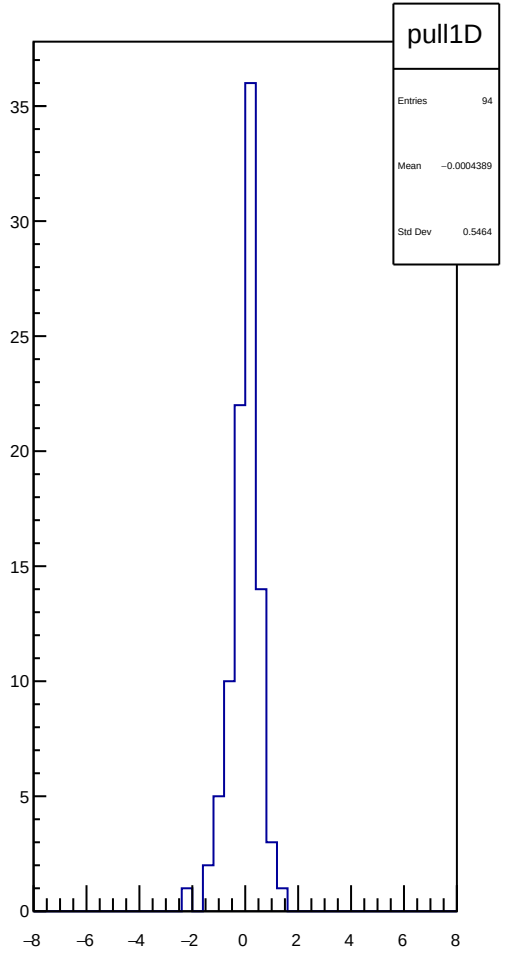

asym_bcm_an_ds_rms vs run
χ² / ndf 1.268e+04 / 93
p0 187.1 ± 0.1392
220
210
200
190
180
170
160
150

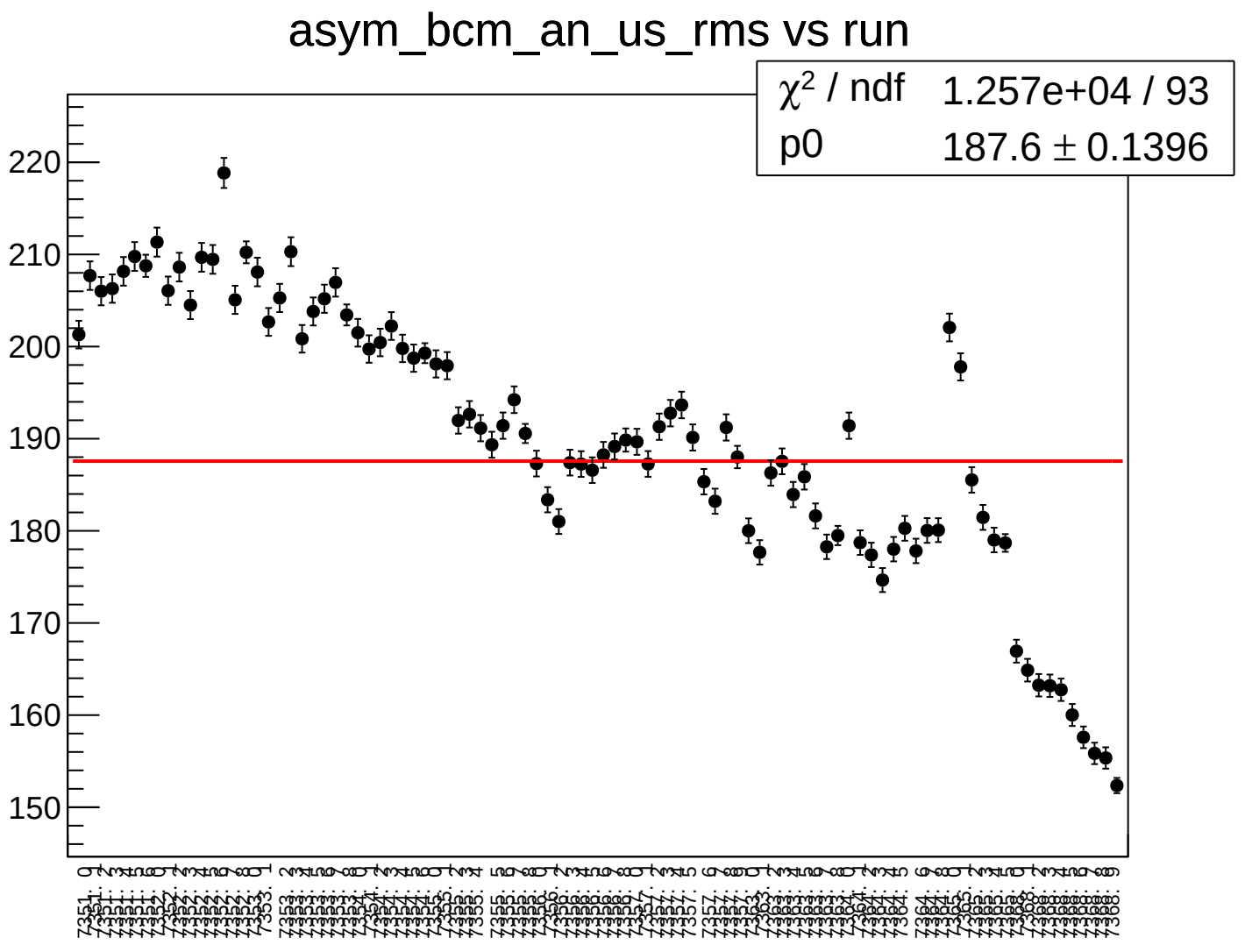

asym_bcm_an_ds3_mean vs run
χ² / ndf 31.12 / 93
p0 −305.9 ± 197.4
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean 1044
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

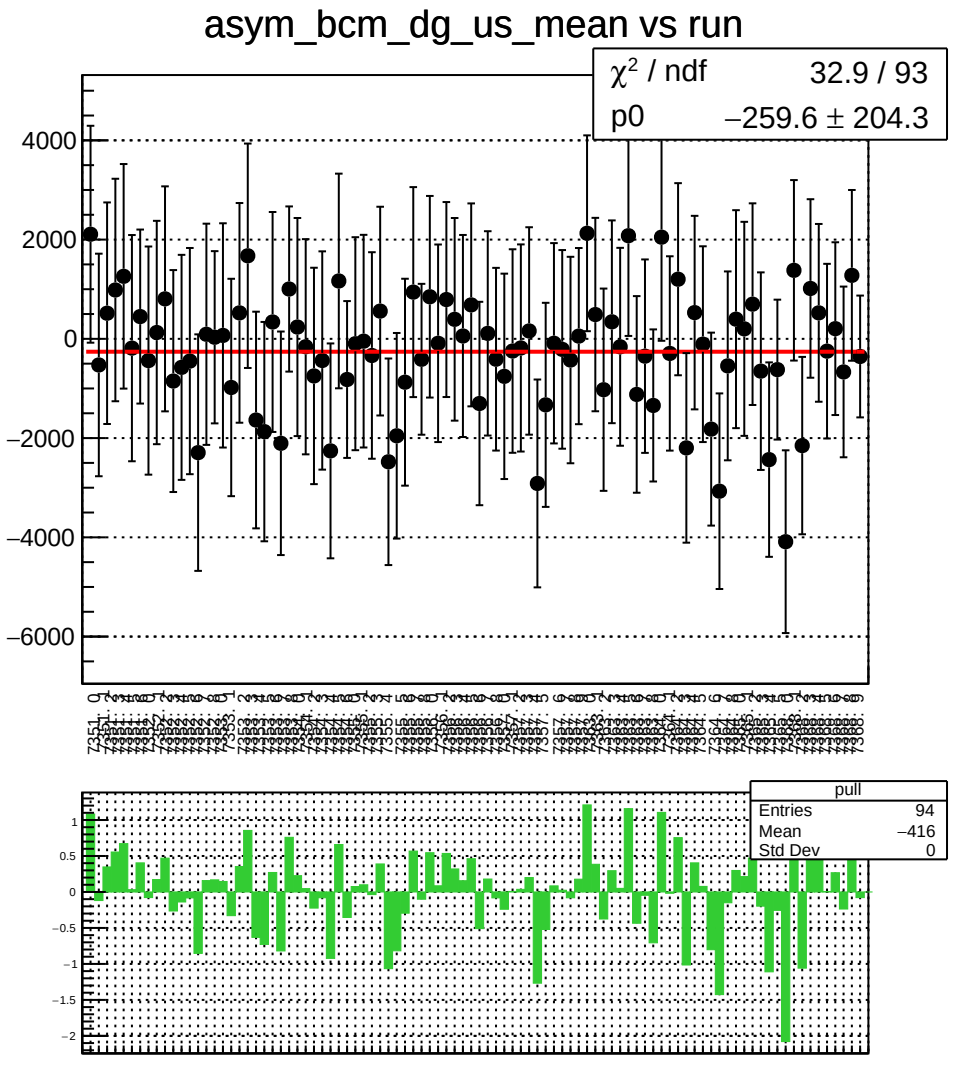

pull1D
Entries 94
Mean −0.002023
Std Dev 0.5754
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

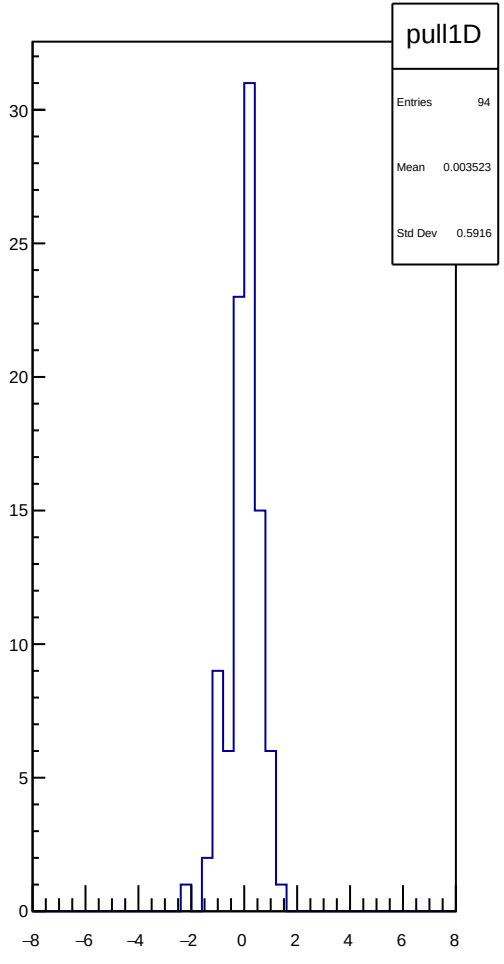

asym_bcm_an_ds3_rms vs run
χ^2 / ndf 1.267e+04 / 93
p0 187.6 ± 0.1396
220
210
200
190
180
170
160
150

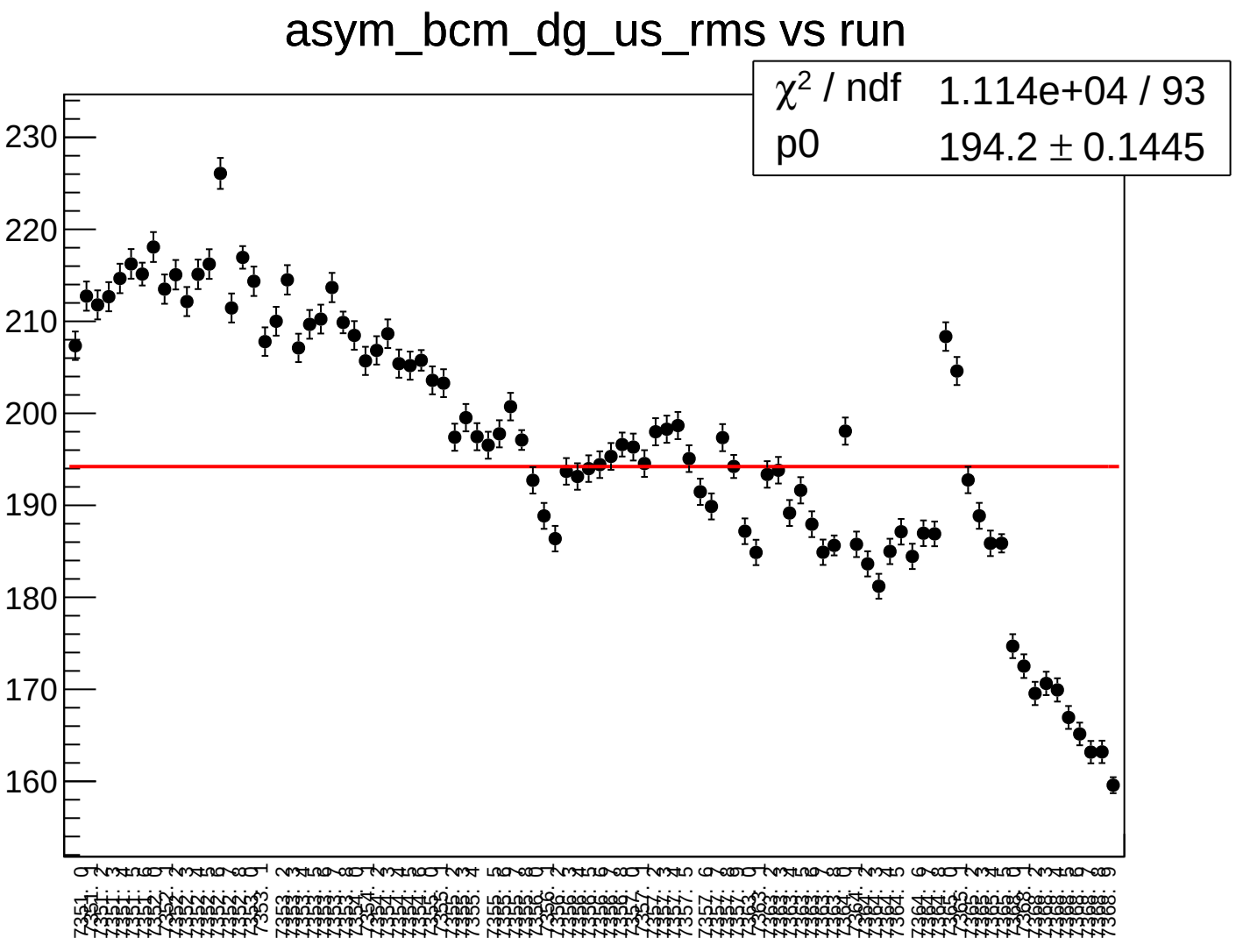

asym_bcm_an_us_mean vs run
χ² / ndf 28.07 / 93
p0 −259.4 ± 197.4
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean 4497
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

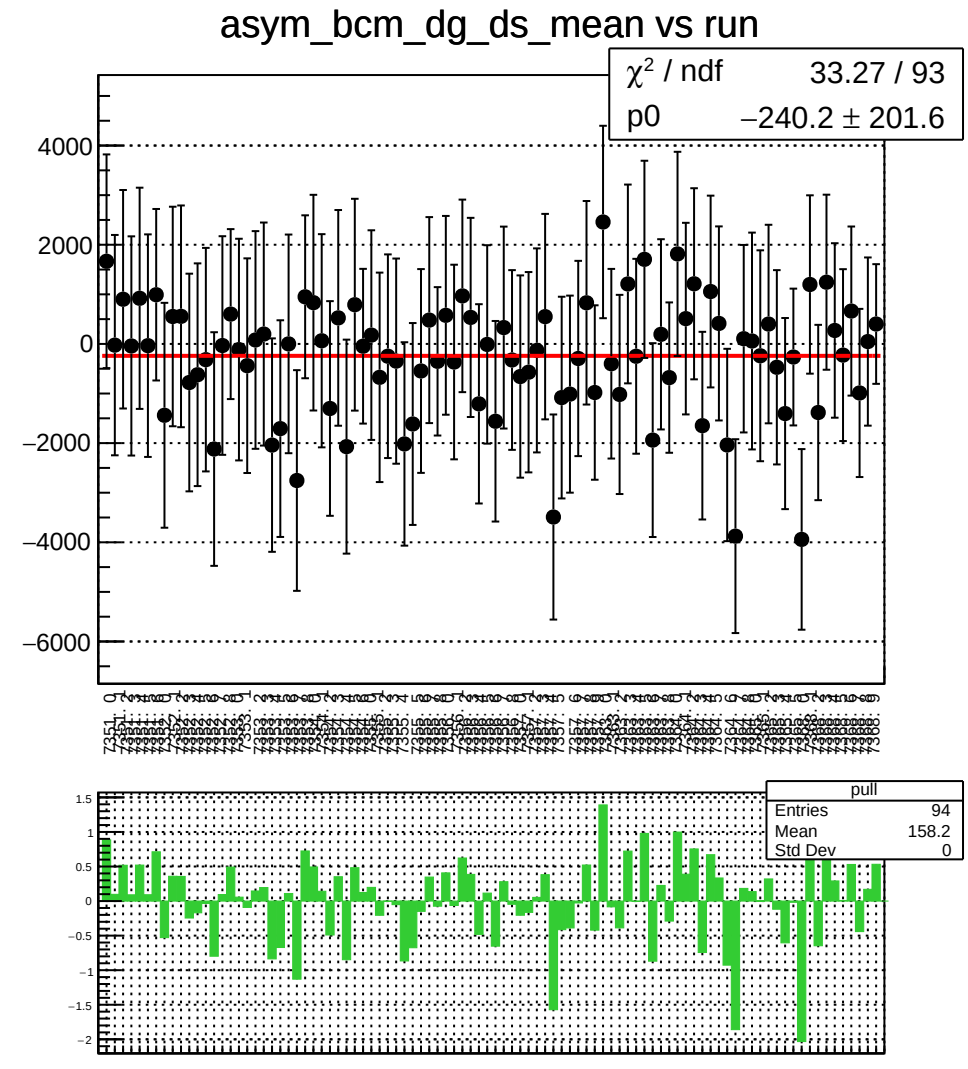

pull1D
Entries 94
Mean −0.0004389
Std Dev 0.5464
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

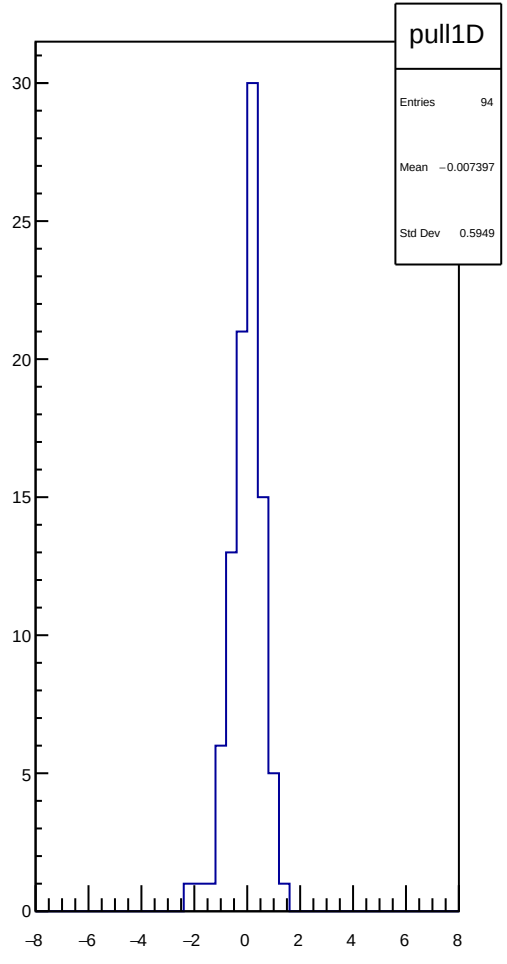

asym_bcm_an_us_rms vs run
χ^2 / ndf 1.257e+04 / 93
p0 187.6 ± 0.1396
220
210
200
190
180
170
160
150

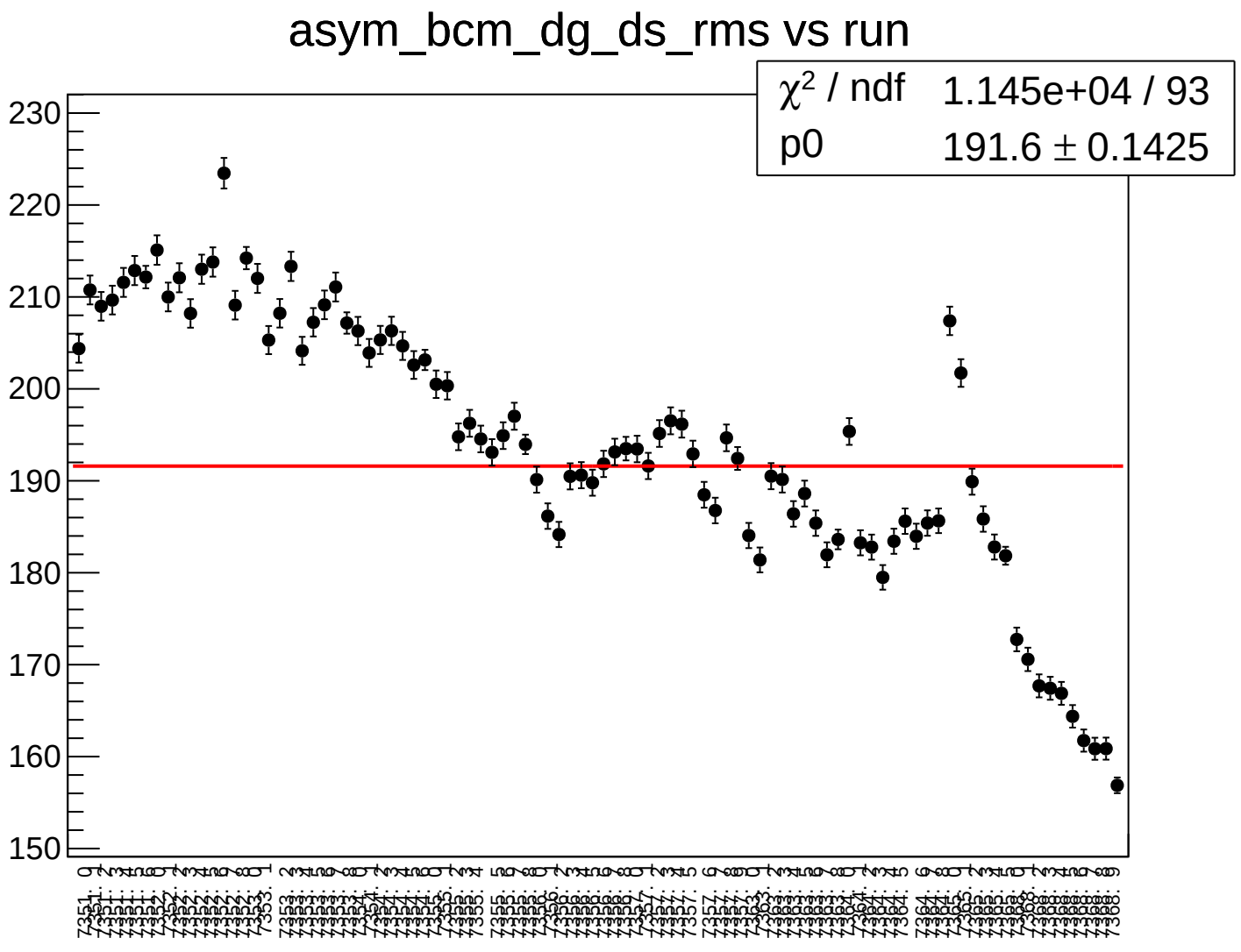

asym_bcm_dg_us_mean vs run
χ² / ndf 32.9 / 93
p0 −259.6 ± 204.3
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean −416
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

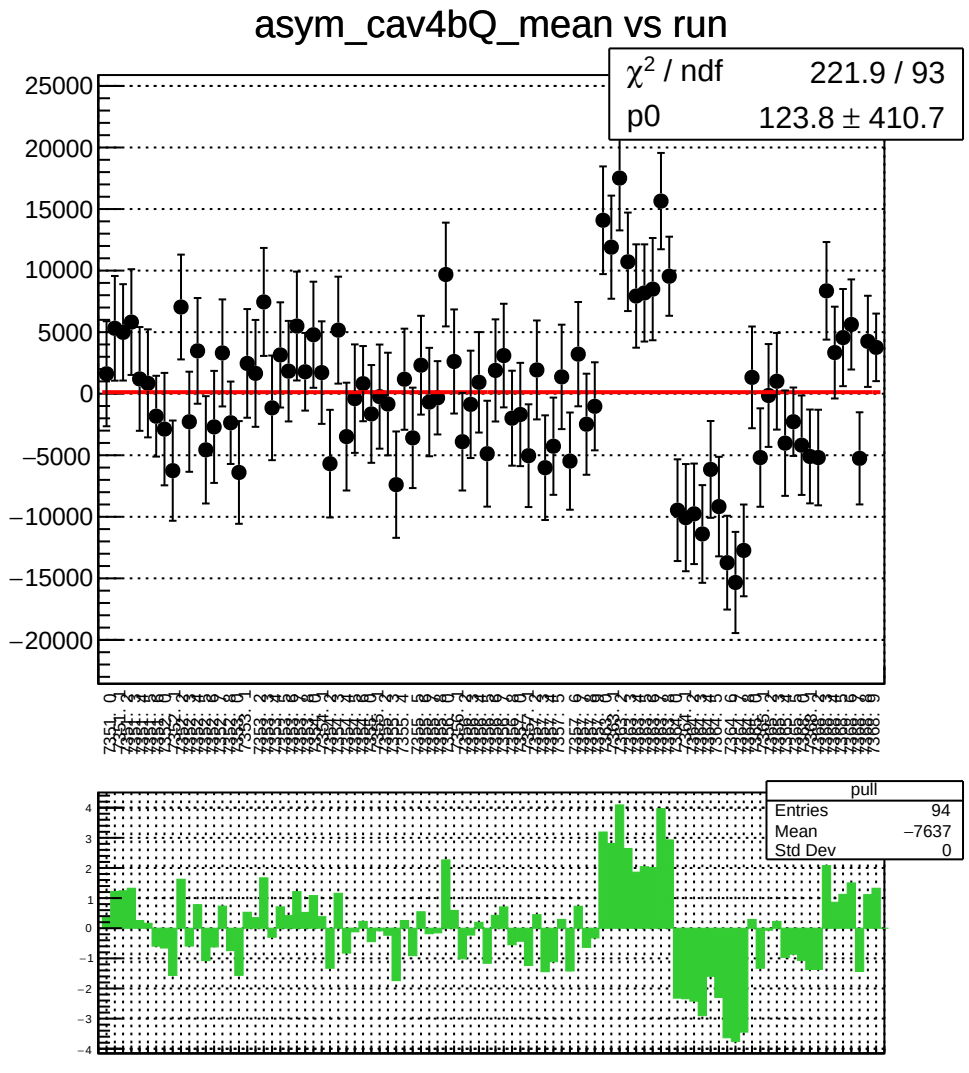

pull1D
Entries 94
Mean 0.003523
Std Dev 0.5916
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

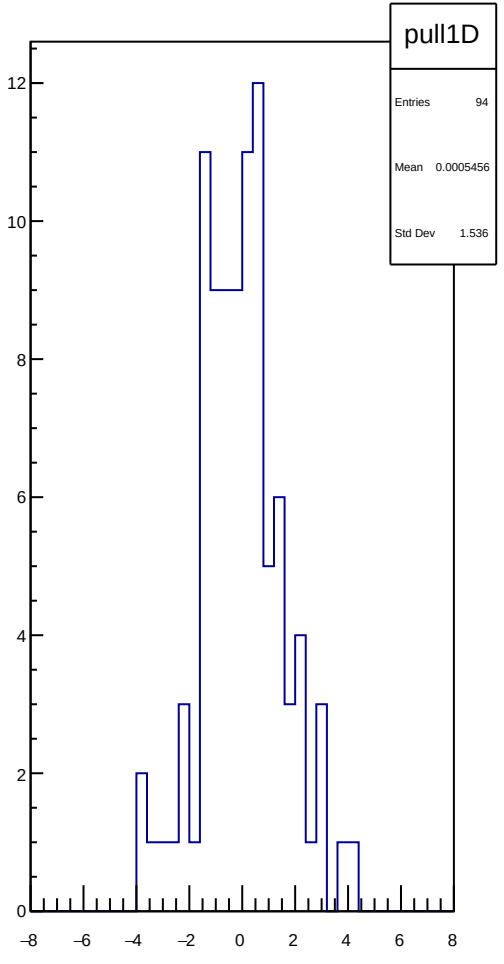

asym_bcm_dg_us_rms vs run
χ^2 / ndf 1.114e+04 / 93
p0 194.2 ± 0.1445
230
220
210
200
190
180
170
160

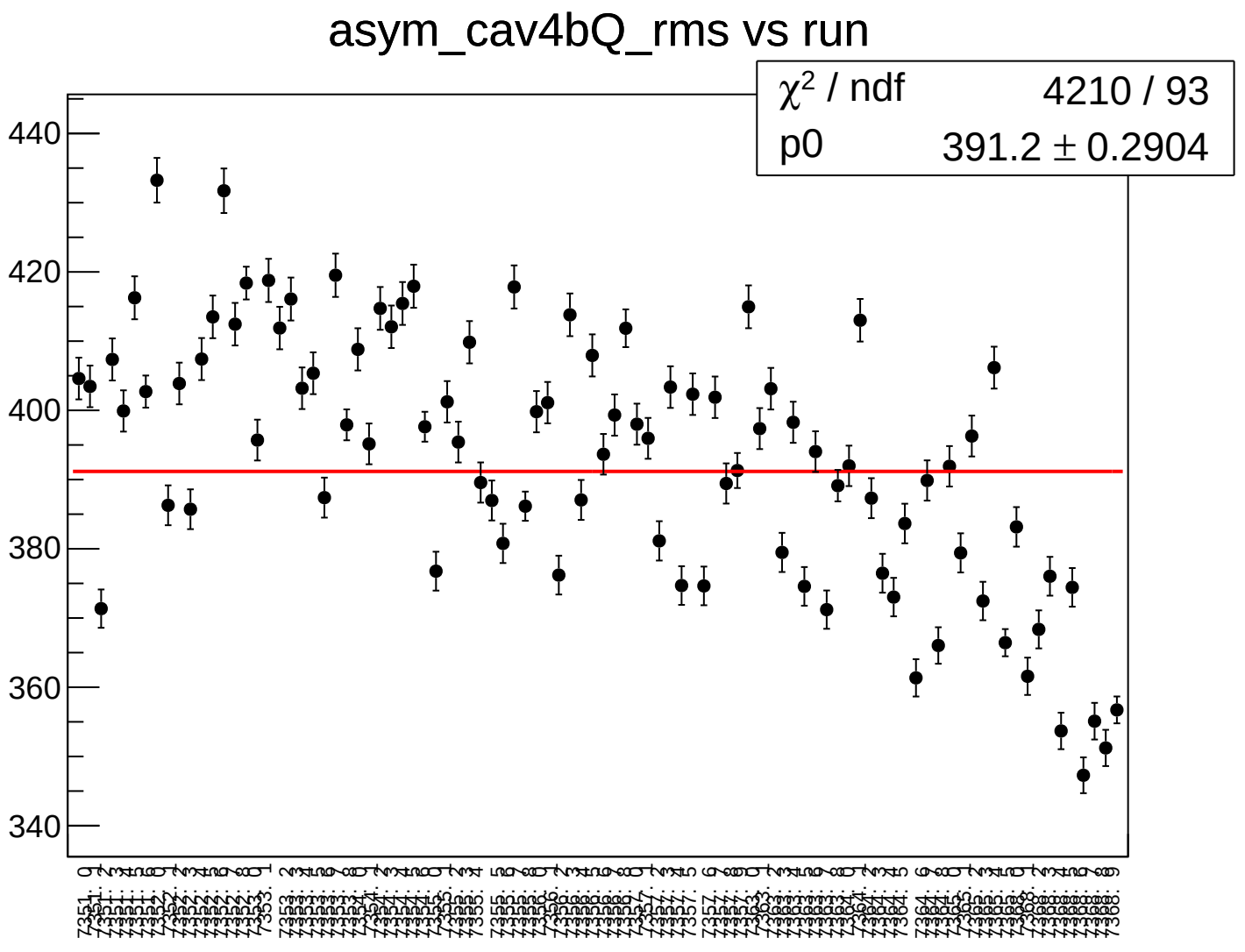

asym_bcm_dg_ds_mean vs run
χ² / ndf 33.27 / 93
p0 −240.2 ± 201.6
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean 158.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

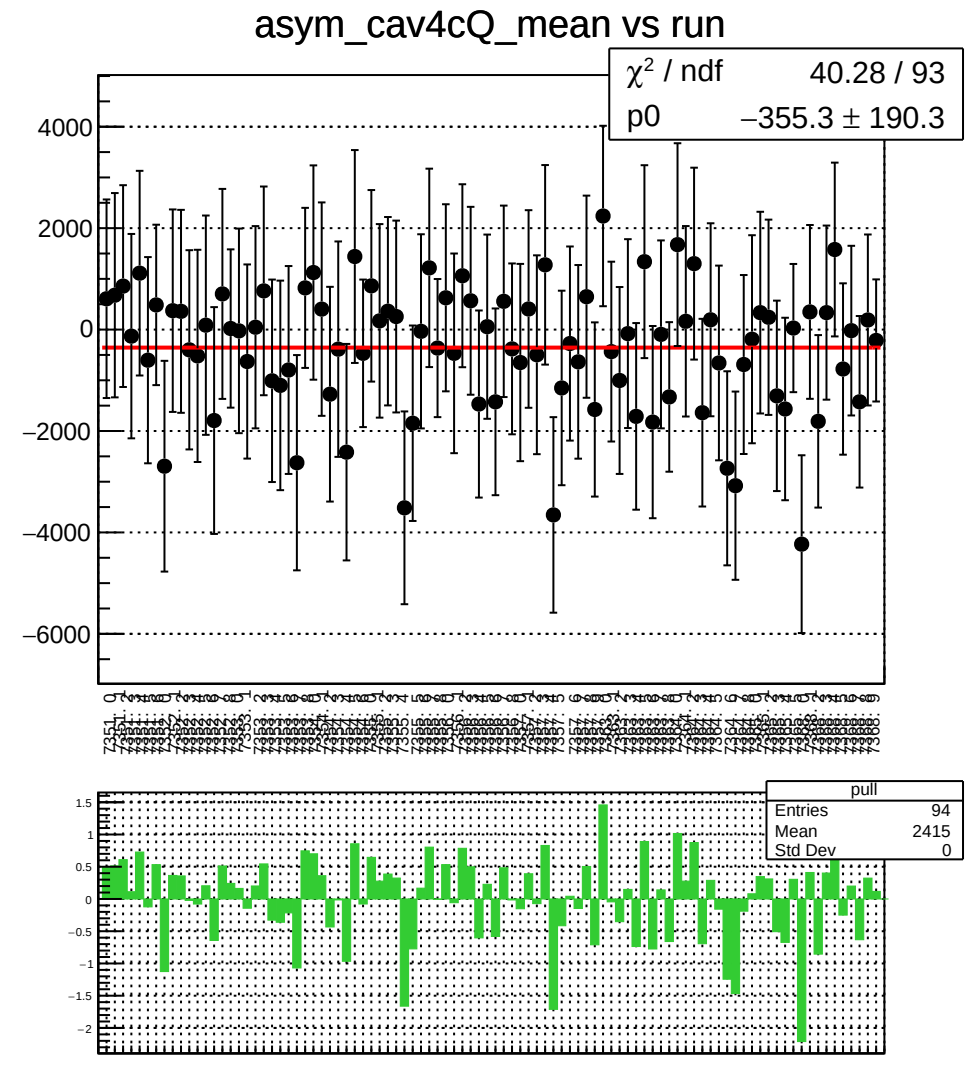

pull1D
Entries 94
Mean −0.007397
Std Dev 0.5949
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

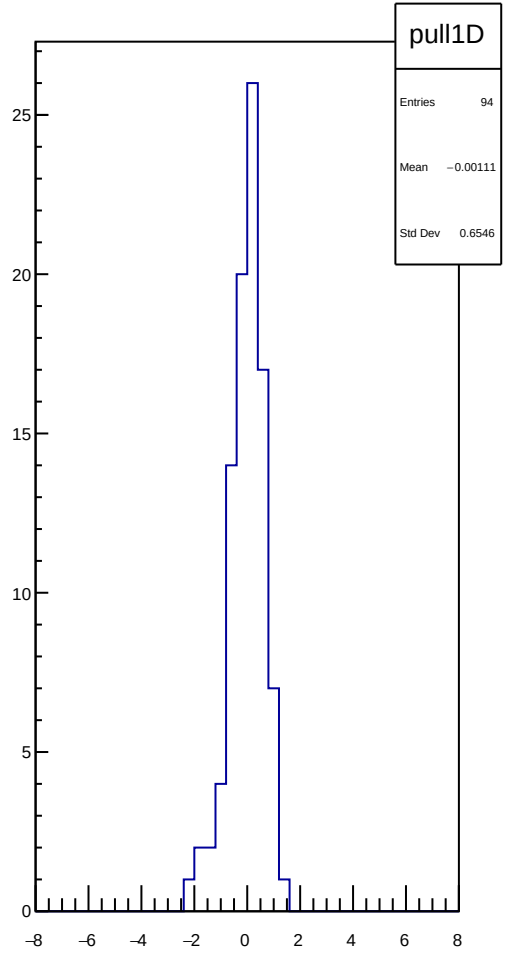

asym_bcm_dg_ds_rms vs run
χ² / ndf 1.145e+04 / 93
p0 191.6 ± 0.1425
230
220
210
200
190
180
170
160
150

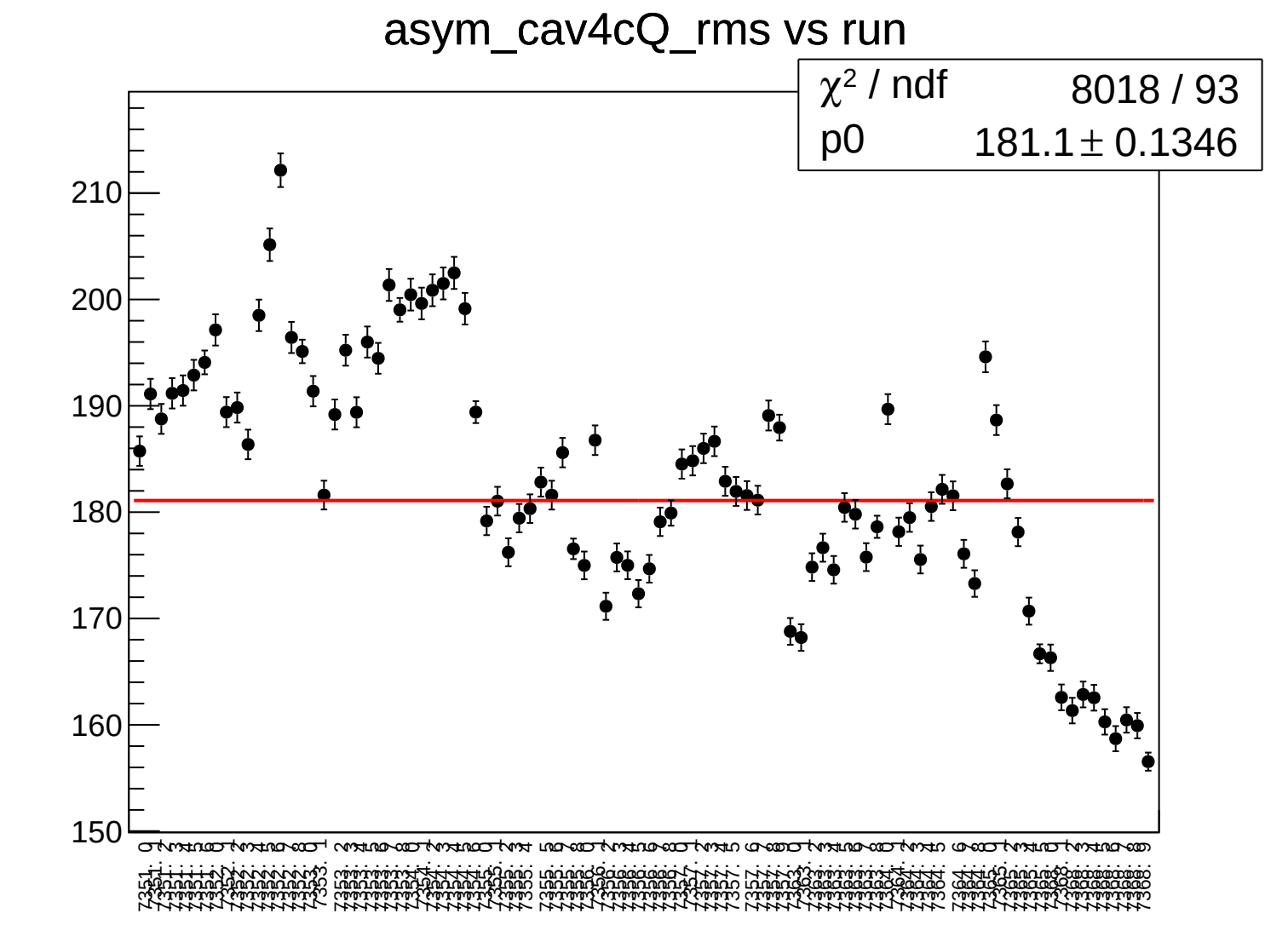

asym_cav4bQ_mean vs run
χ² / ndf 221.9 / 93
p0 123.8 ± 410.7
pull
Entries 94
Mean −7637
Std Dev 0

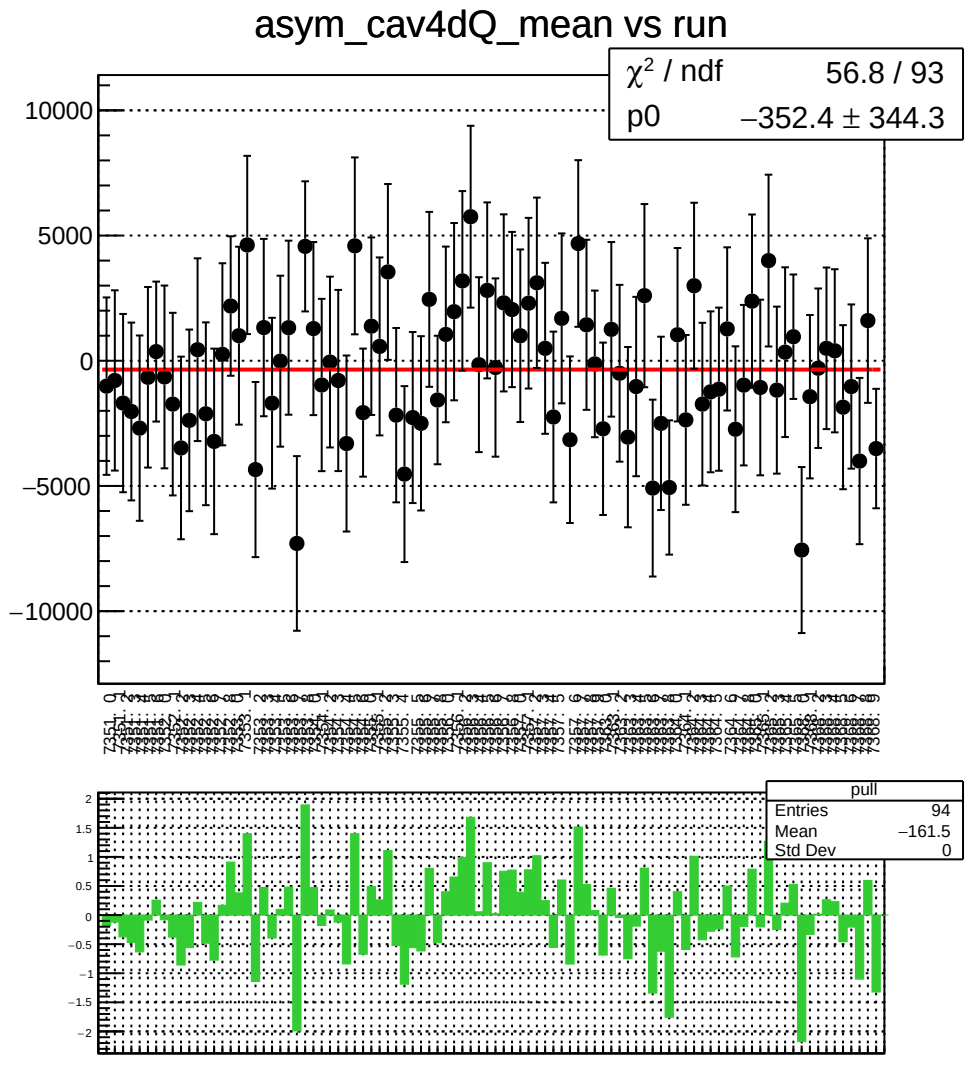

pull1D
Entries 94
Mean 0.0005456
Std Dev 1.536

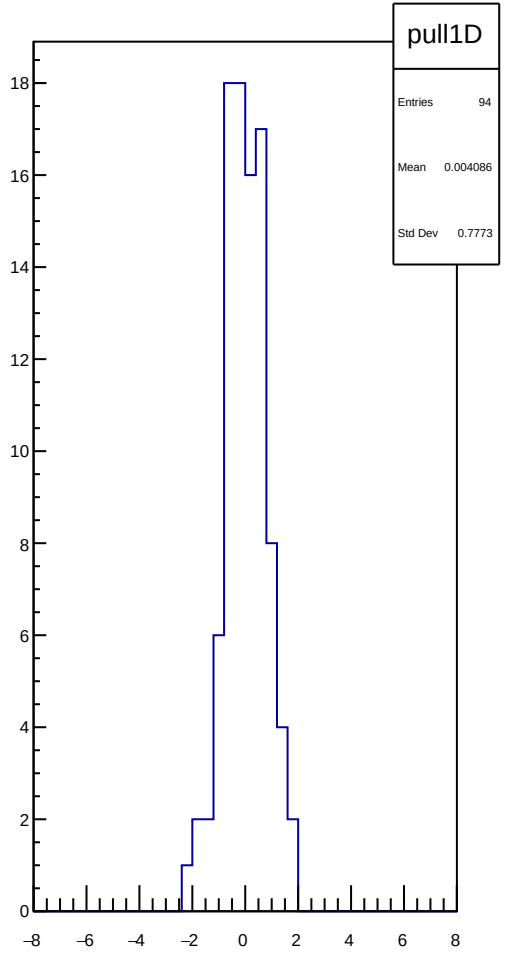

asym_cav4bQ_rms vs run
χ² / ndf 4210 / 93
p0 391.2 ± 0.2904
440
420
400
380
360
340

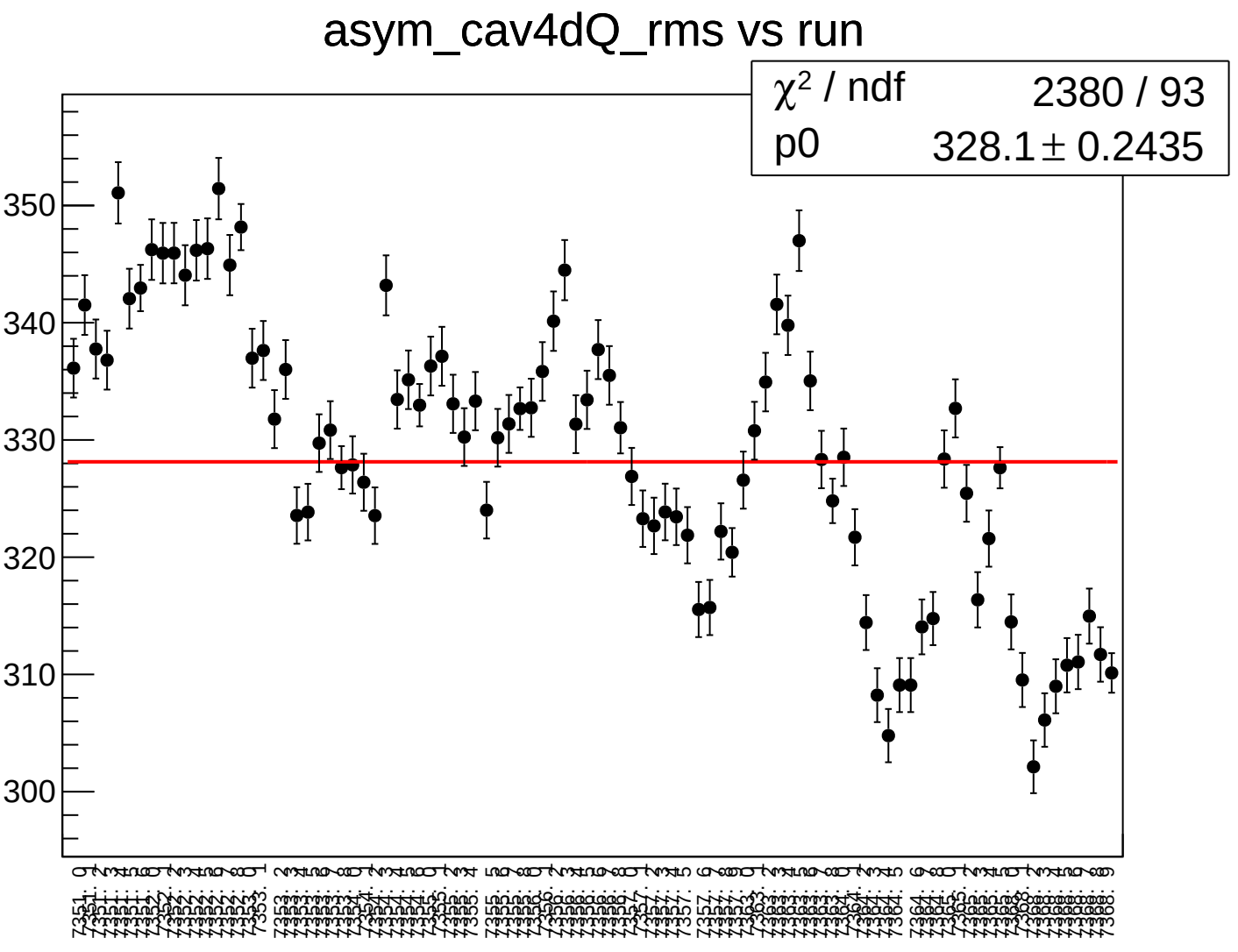

asym_cav4cQ_mean vs run
χ² / ndf 40.28 / 93
p0 −355.3 ± 190.3
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean 2415
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

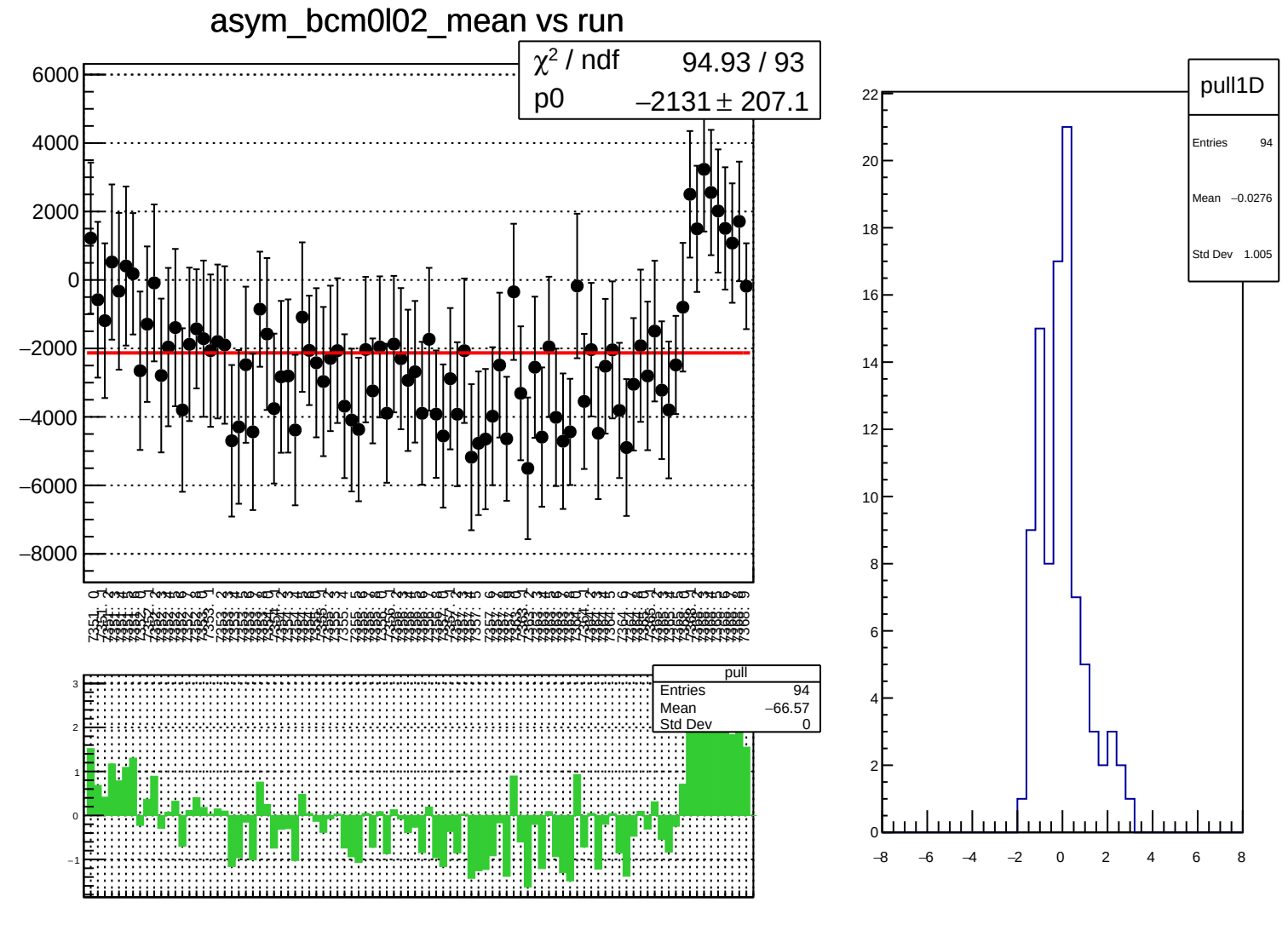

pull1D
Entries 94
Mean −0.00111
Std Dev 0.6546
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

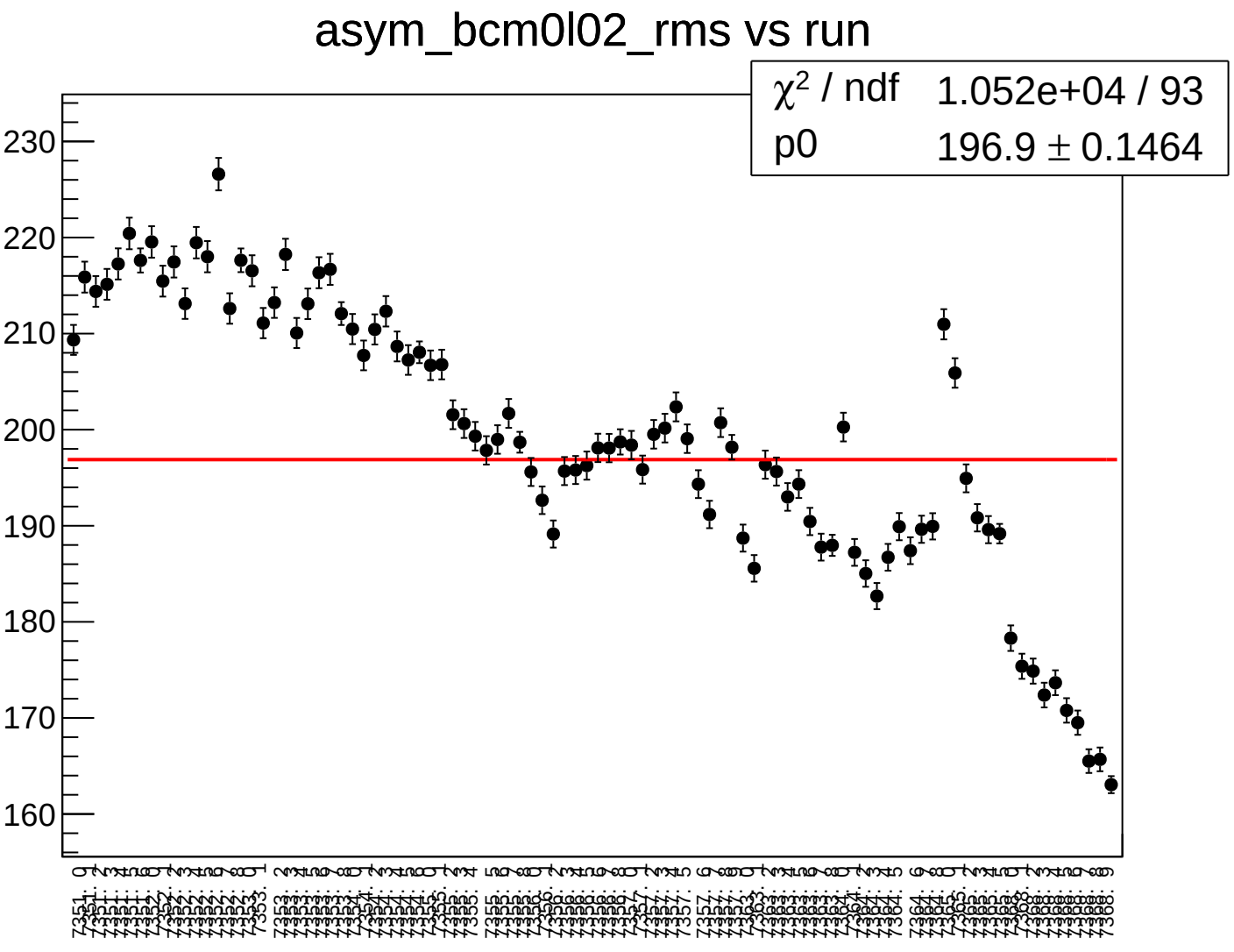

asym_cav4cQ_rms vs run
χ² / ndf 8018 / 93
p0 181.1 ± 0.1346
210
200
190
180
170
160
150

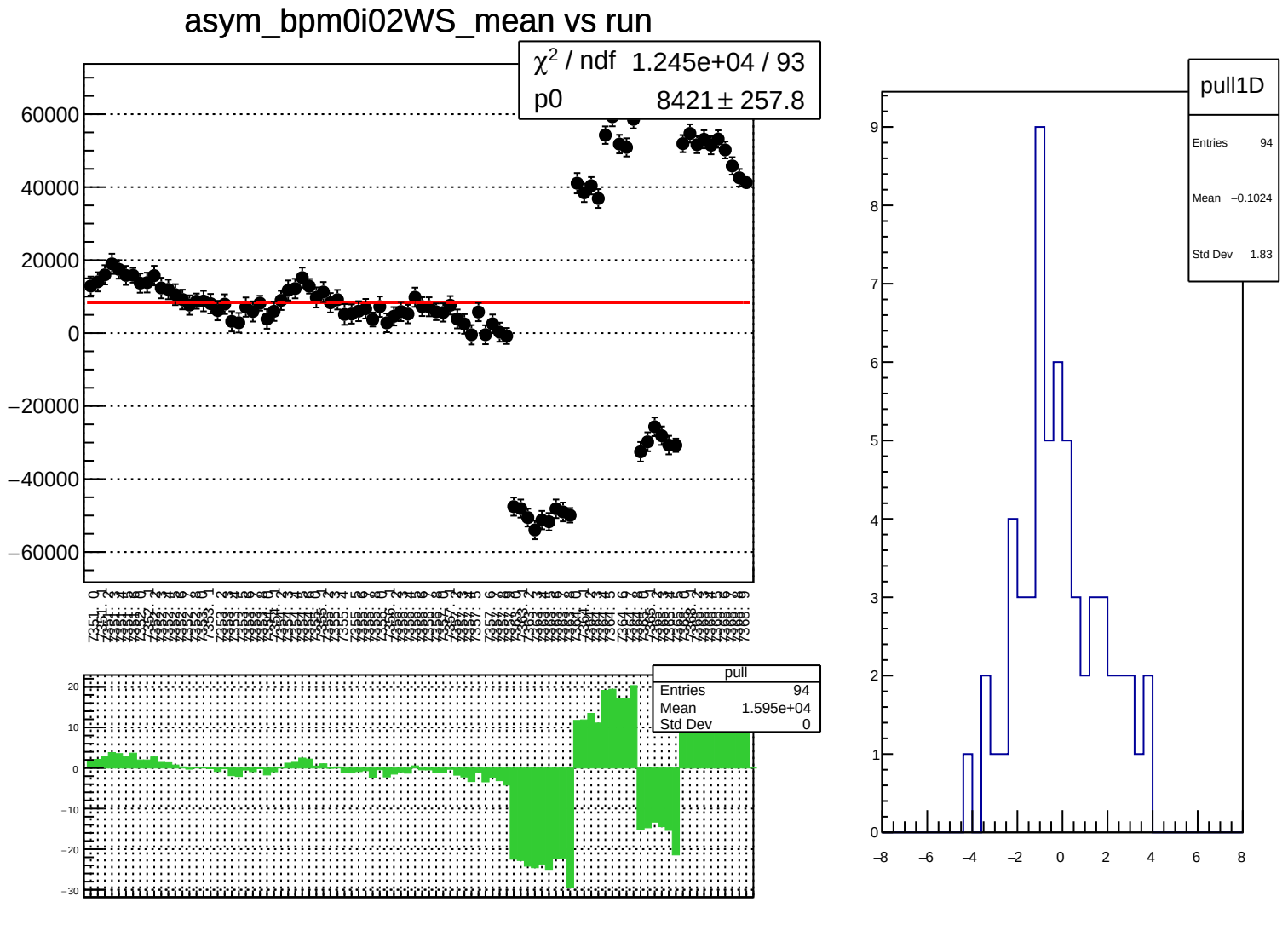

asym_cav4dQ_mean vs run
χ² / ndf 56.8 / 93
p0 −352.4 ± 344.3
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −161.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

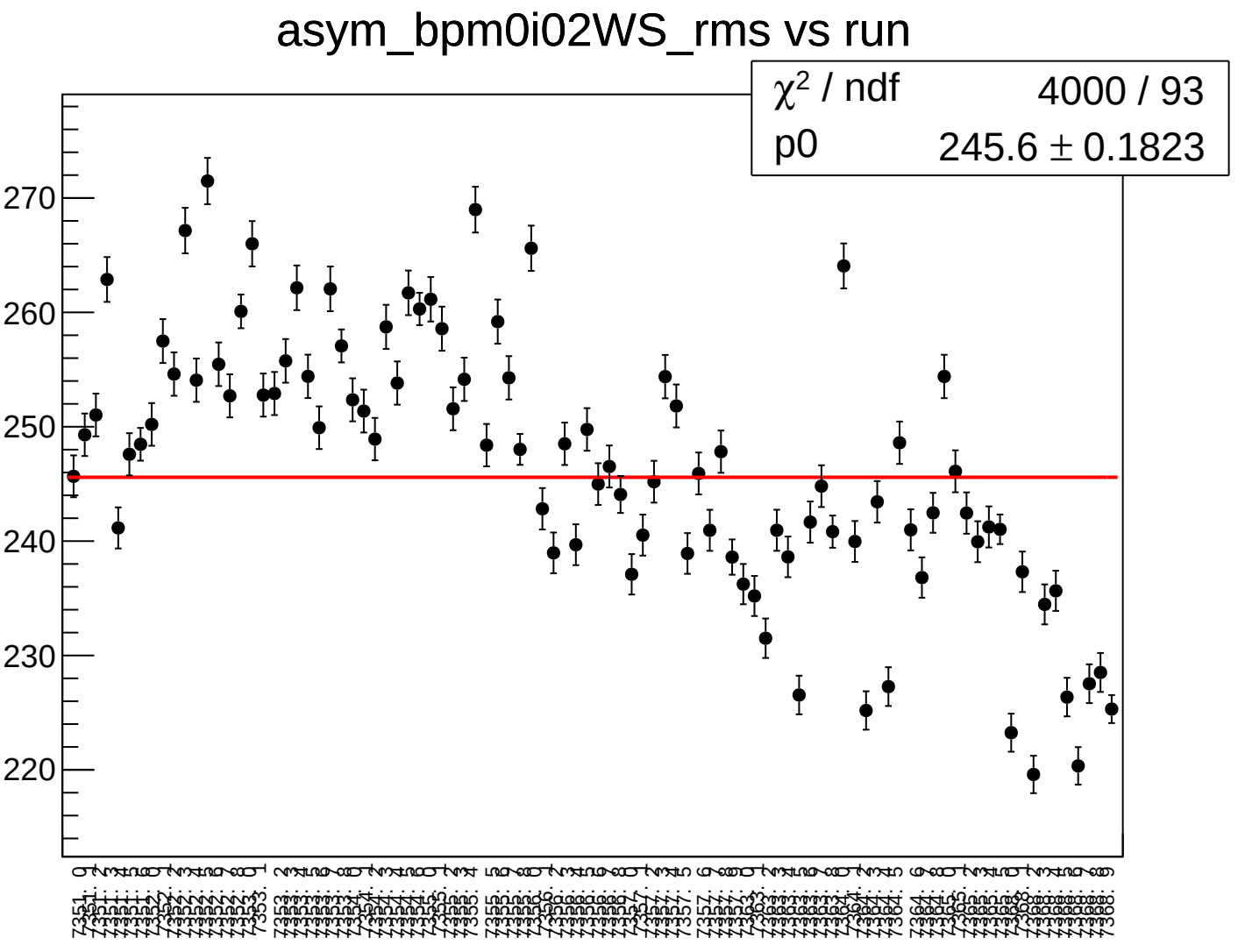

pull1D
Entries 94
Mean 0.004086
Std Dev 0.7773
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

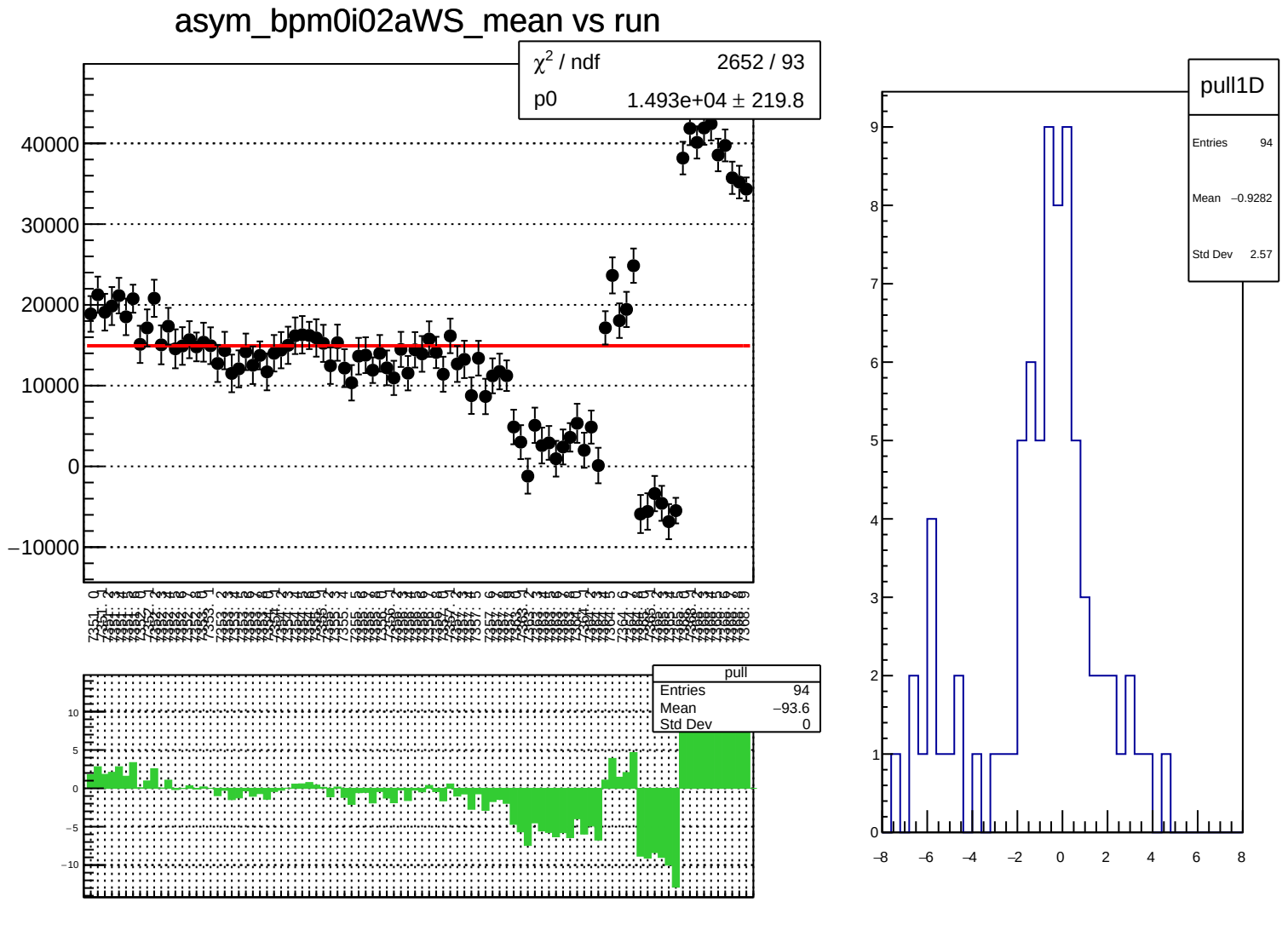

asym_cav4dQ_rms vs run
χ² / ndf 2380 / 93
p0 328.1 ± 0.2435
350
340
330
320
310
300

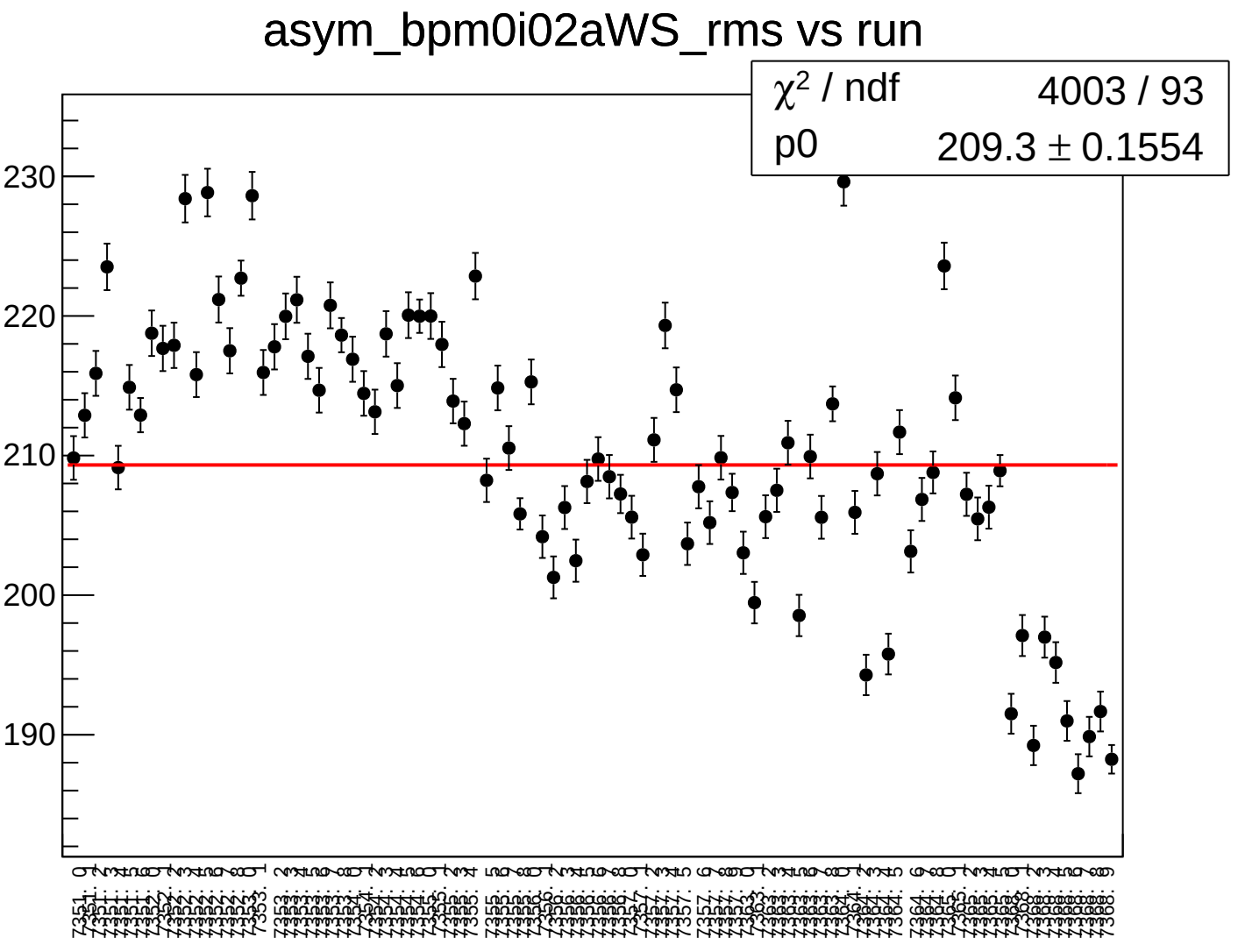

asym_bcm0l02_mean vs run
χ² / ndf 94.93 / 93
p0 −2131 ± 207.1
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 94
Mean −66.57
Std Dev 0
3
2
1
0
−1
pull1D
Entries 94
Mean −0.0276
Std Dev 1.005
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

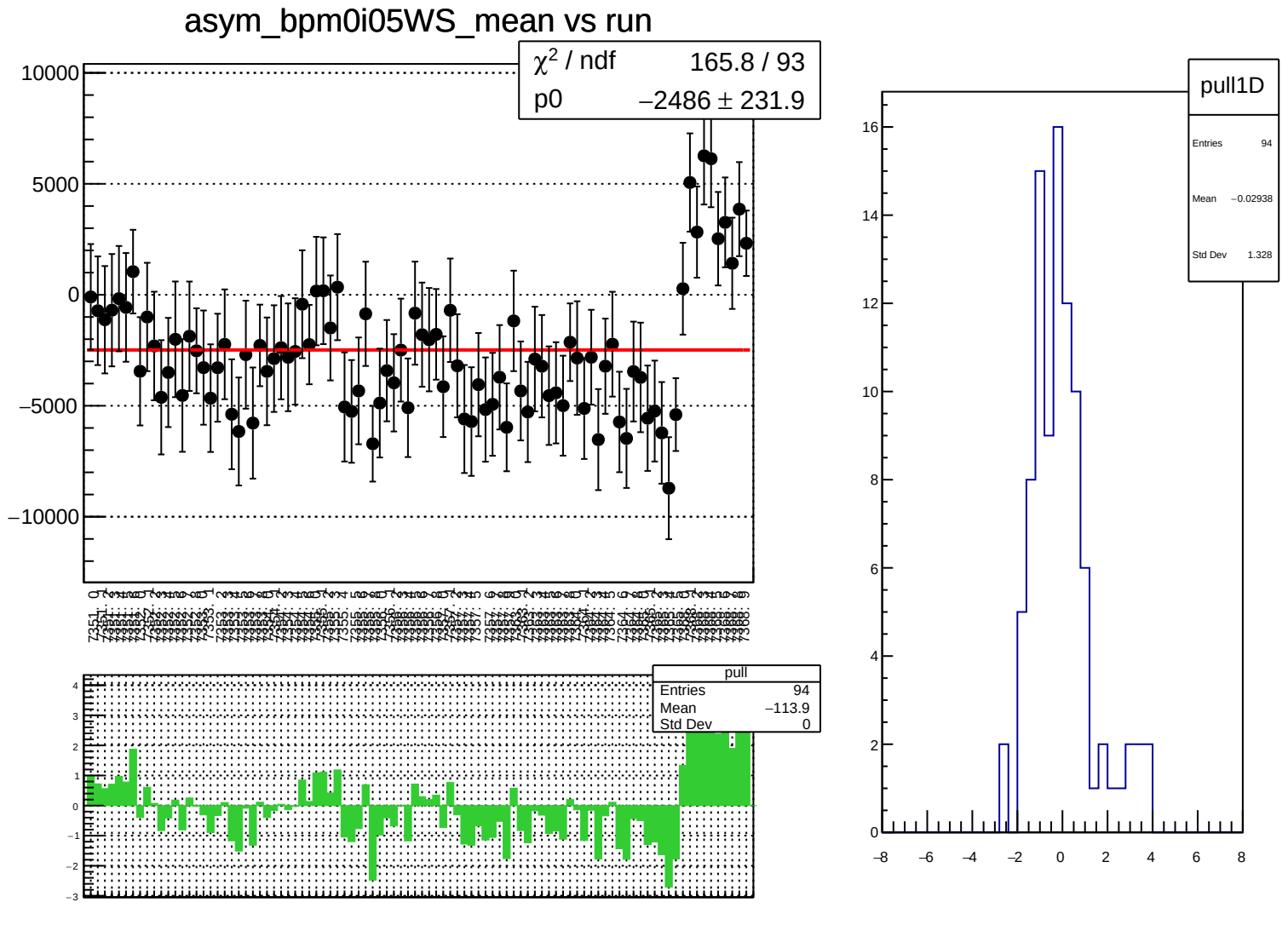

asym_bcm0l02_rms vs run
χ^2 / ndf 1.052e+04 / 93
p0 196.9 ± 0.1464
230
220
210
200
190
180
170
160

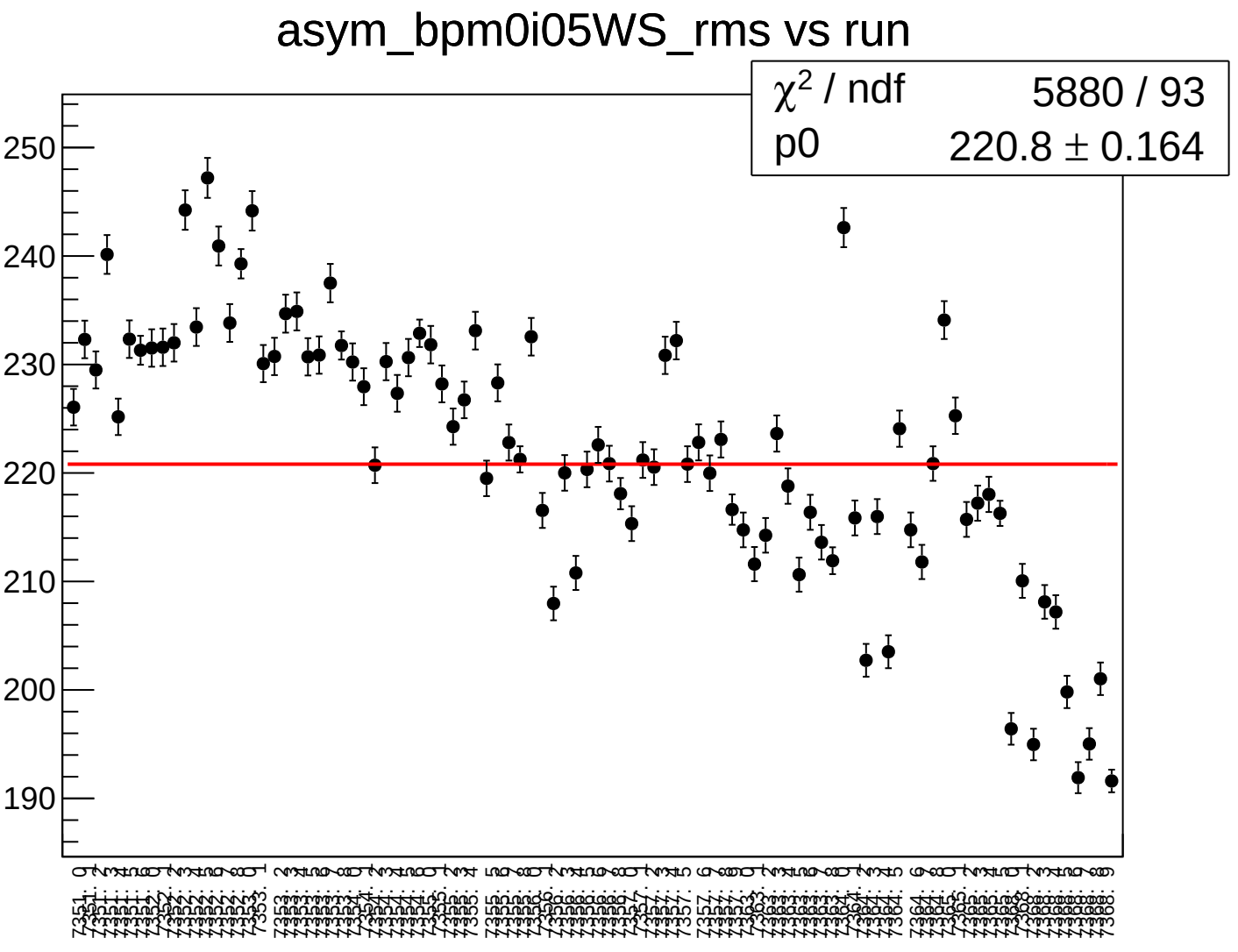

asym_bpm0i02WS_mean vs run
χ² / ndf 1.245e+04 / 93
p0 8421 ± 257.8
pull
Entries 94
Mean 1.595e+04
Std Dev 0
pull1D
Entries 94
Mean −0.1024
Std Dev 1.83

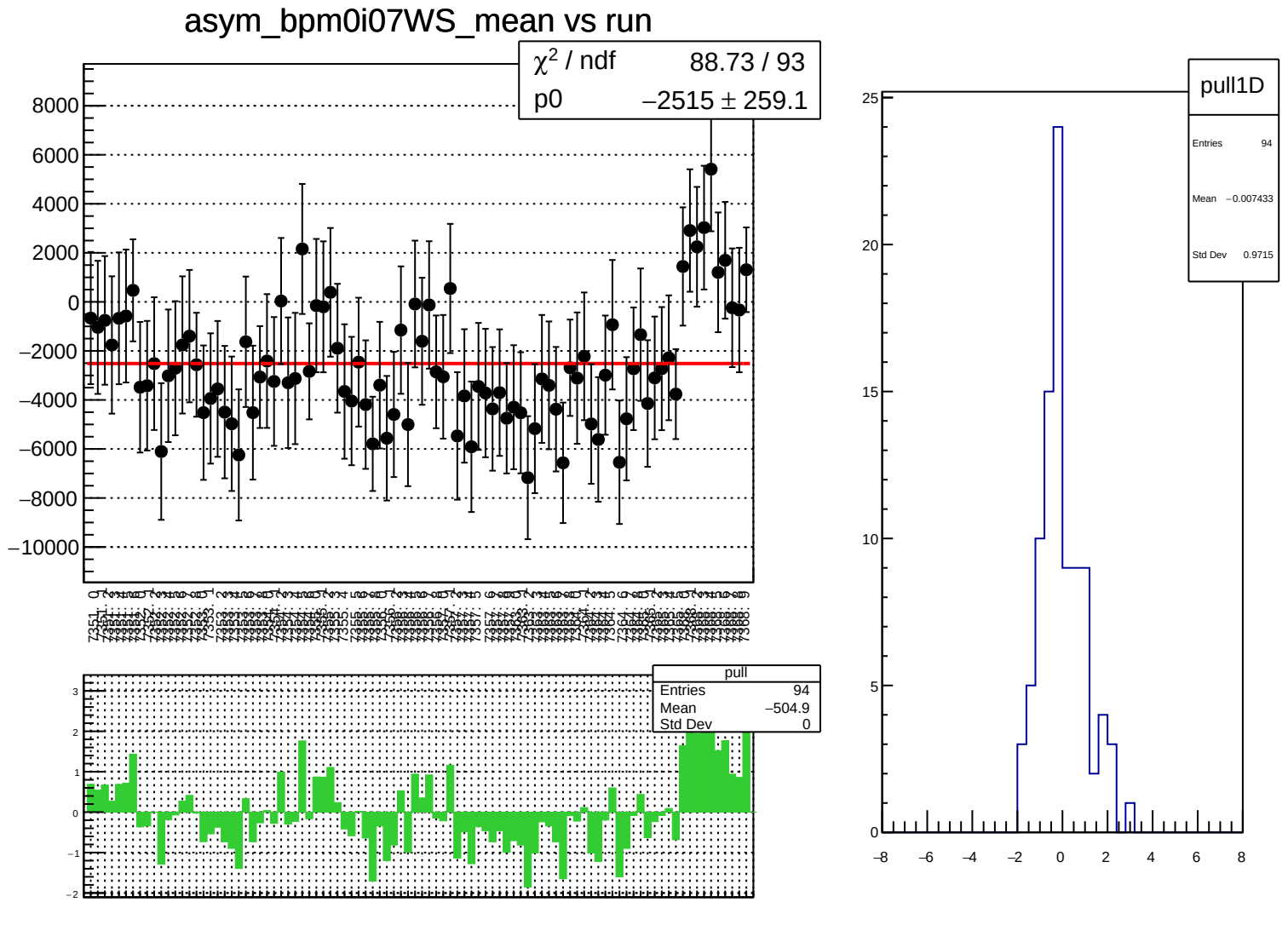

asym_bpm0i02WS_rms vs run
χ² / ndf 4000 / 93
p0 245.6 ± 0.1823
270
260
250
240
230
220

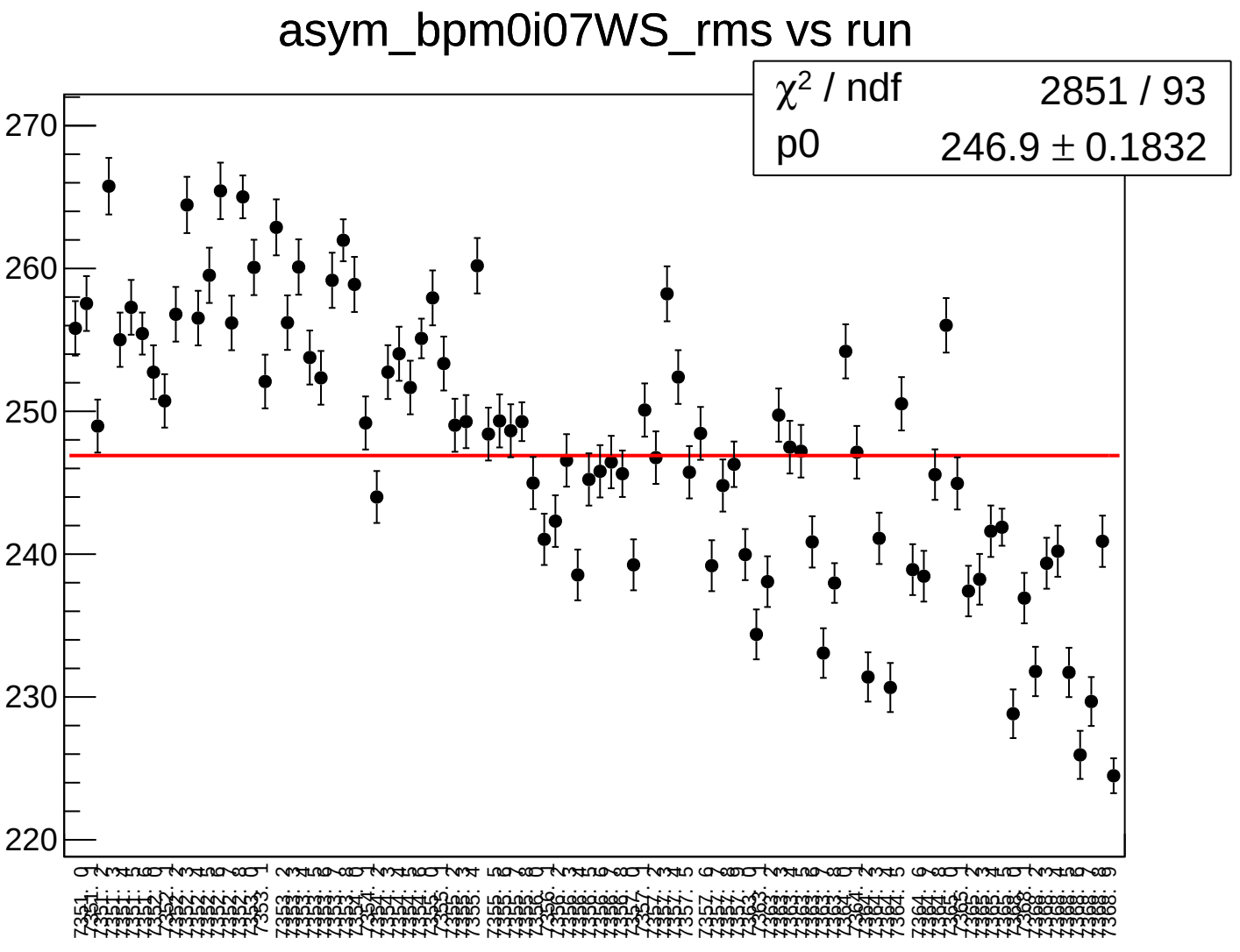

asym_bpm0i02aWS_mean vs run
χ² / ndf 2652 / 93
p0 1.493e+04 ± 219.8
40000
30000
20000
10000
0
−10000
pull
Entries 94
Mean −93.6
Std Dev 0
10
5
0
−5
−10
pull1D
Entries 94
Mean −0.9282
Std Dev 2.57
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

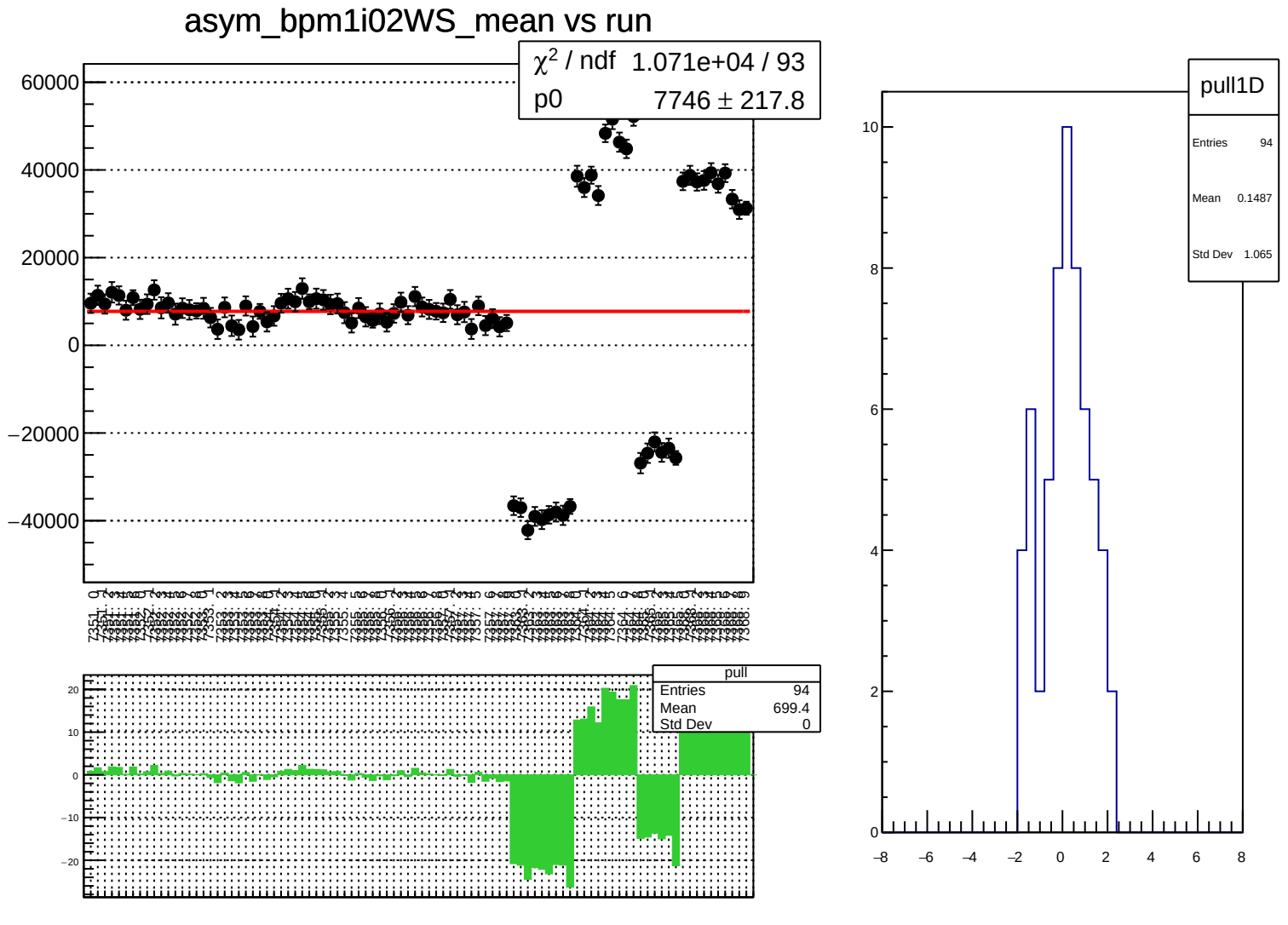

asym_bpm0i02aWS_rms vs run
χ² / ndf 4003 / 93
p0 209.3 ± 0.1554
230
220
210
200
190

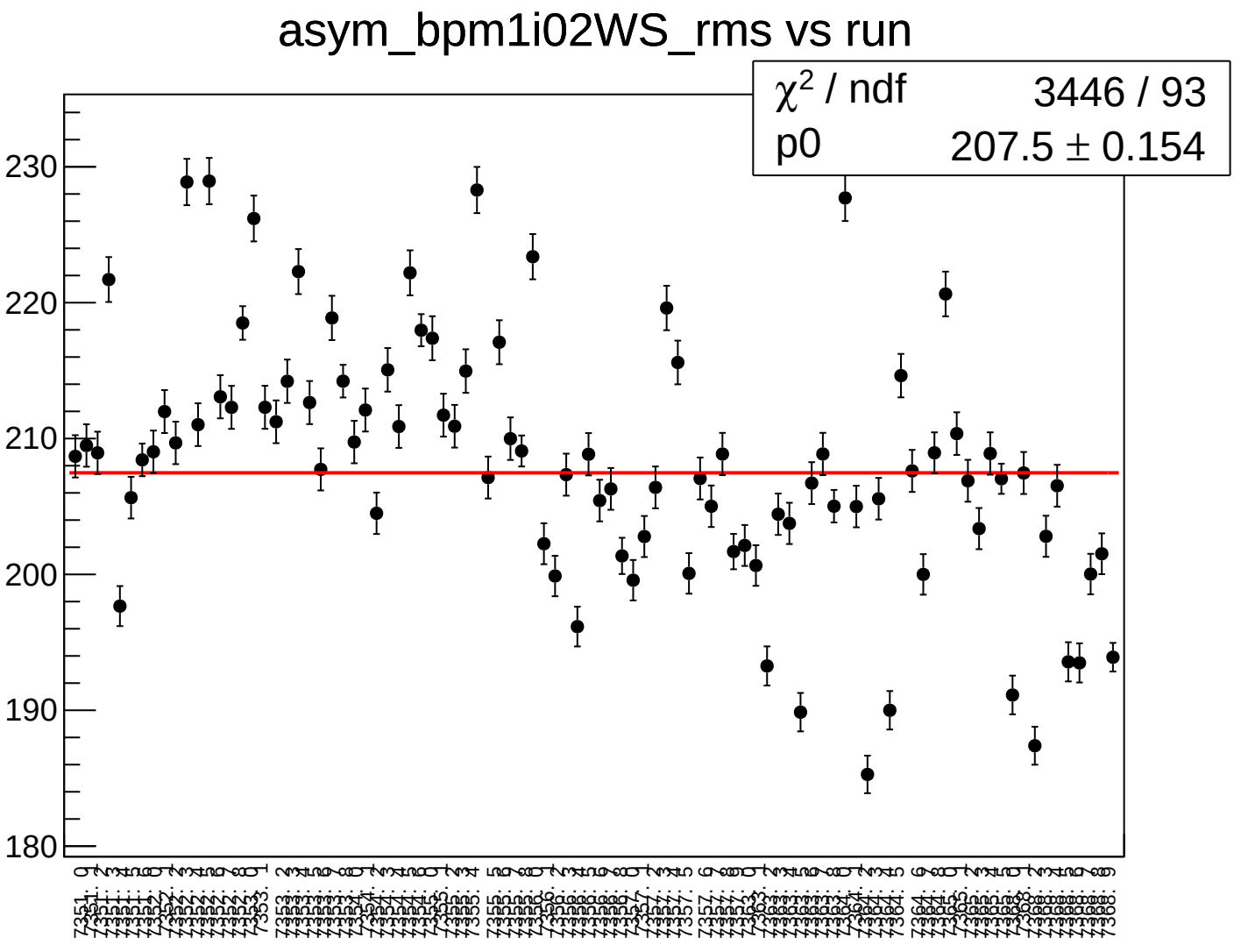

asym_bpm0i05WS_mean vs run
χ² / ndf 165.8 / 93
p0 −2486 ± 231.9
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −113.9
Std Dev 0
pull1D
Entries 94
Mean −0.02938
Std Dev 1.328

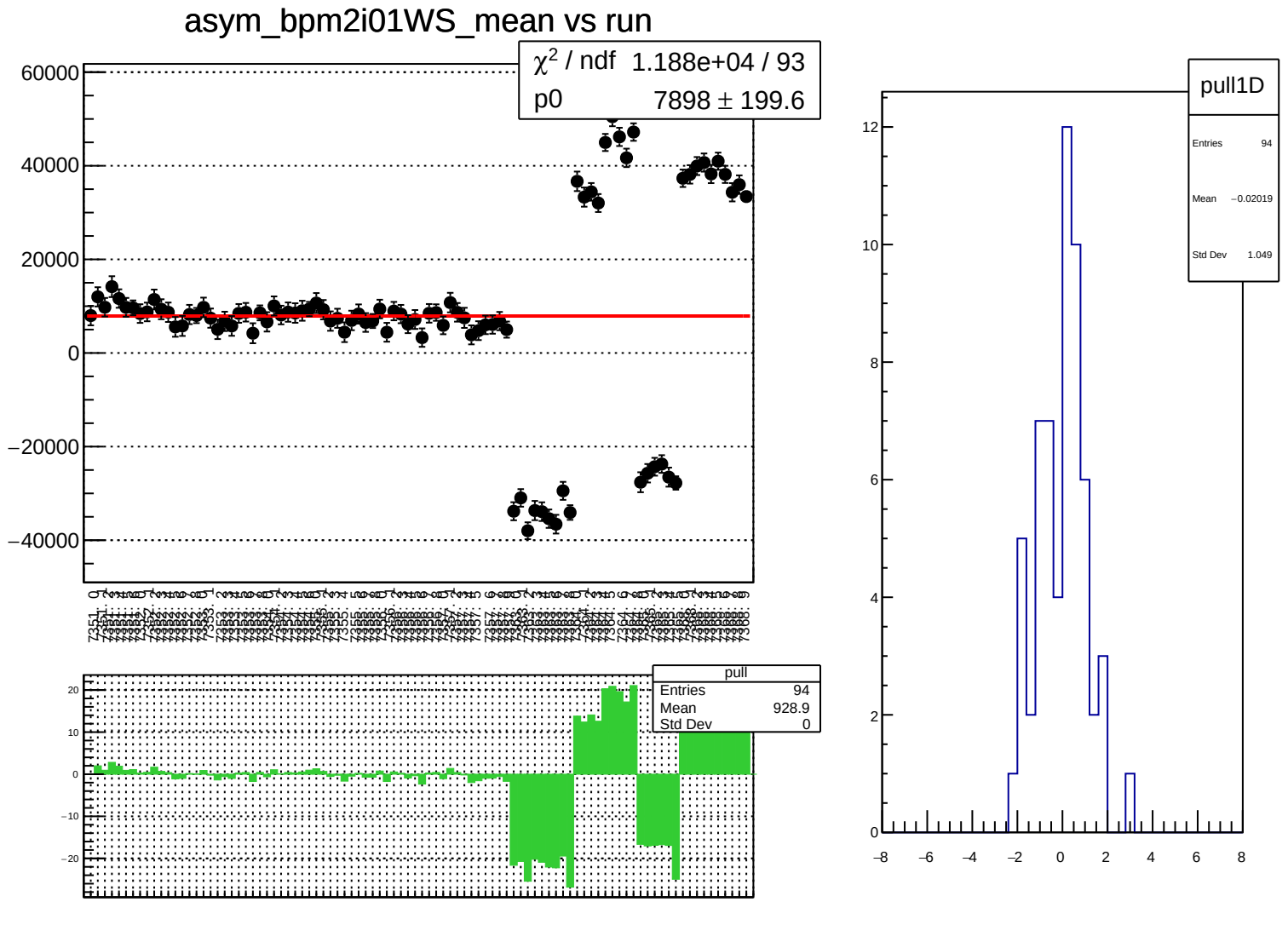

asym_bpm0i05WS_rms vs run
χ^2 / ndf 5880 / 93
p0 220.8 ± 0.164
250
240
230
220
210
200
190

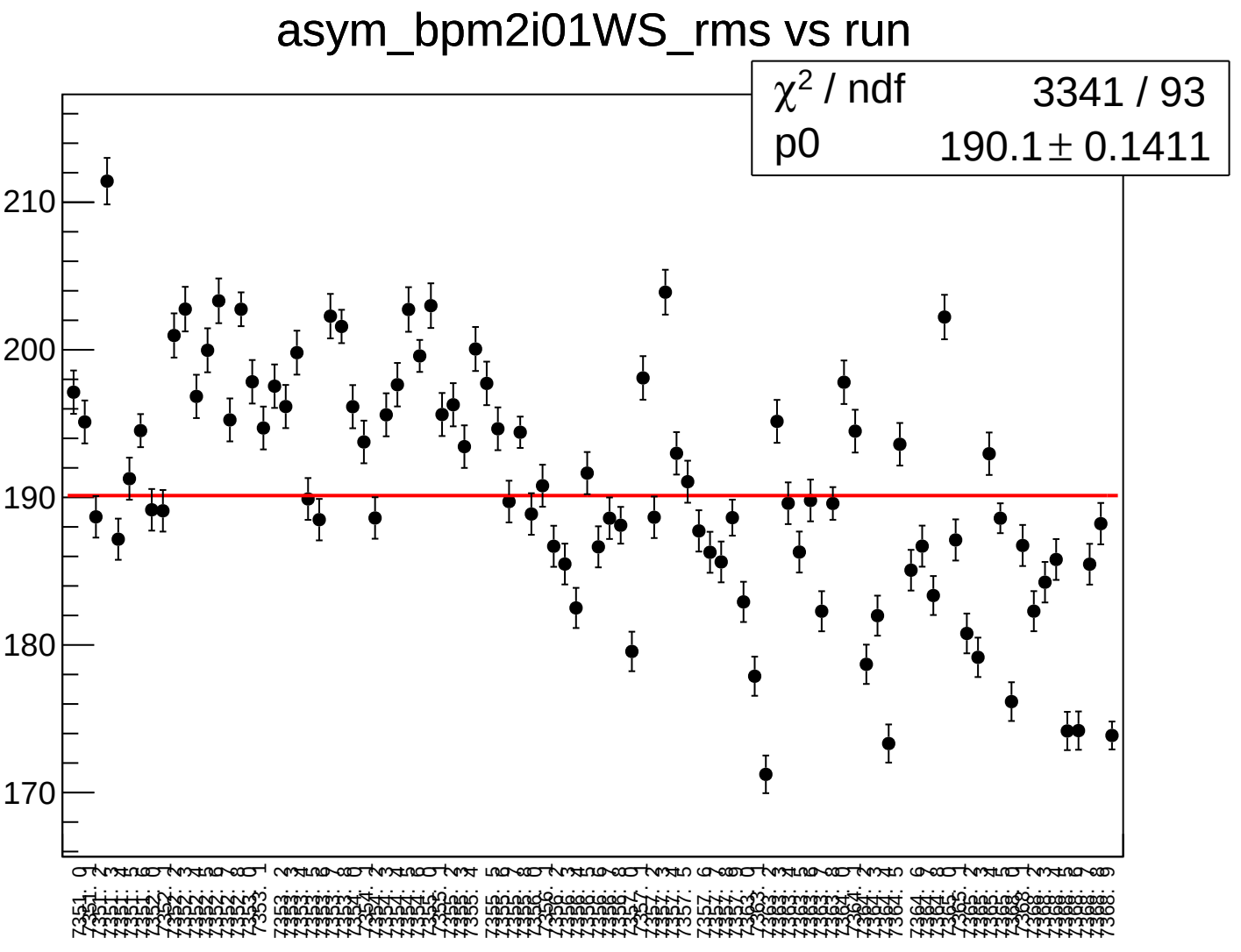

asym_bpm0i07WS_mean vs run
χ² / ndf 88.73 / 93
p0 −2515 ± 259.1
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
pull
Entries 94
Mean −504.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.007433
Std Dev 0.9715
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

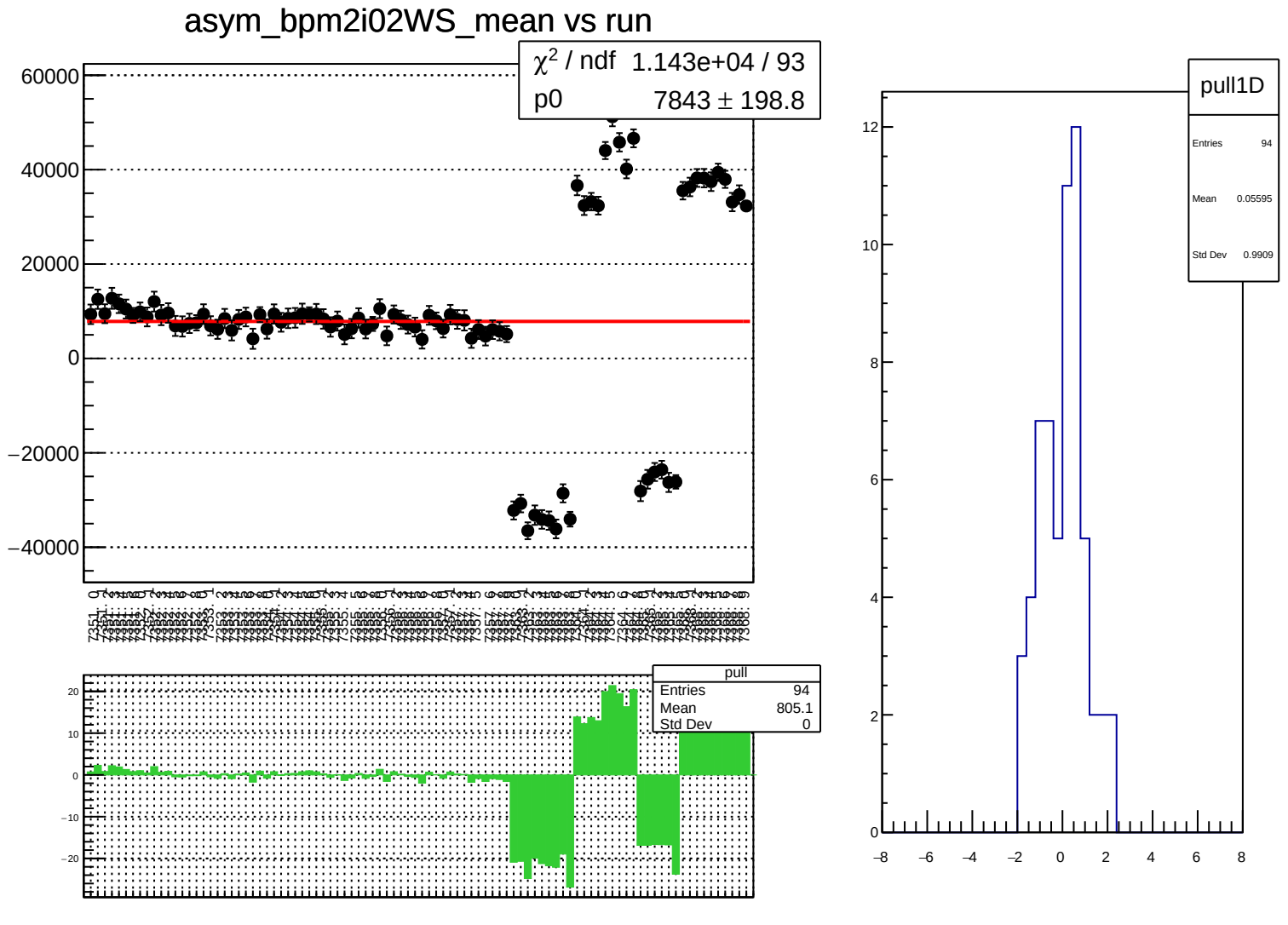

asym_bpm0i07WS_rms vs run
χ² / ndf 2851 / 93
p0 246.9 ± 0.1832
270
260
250
240
230
220

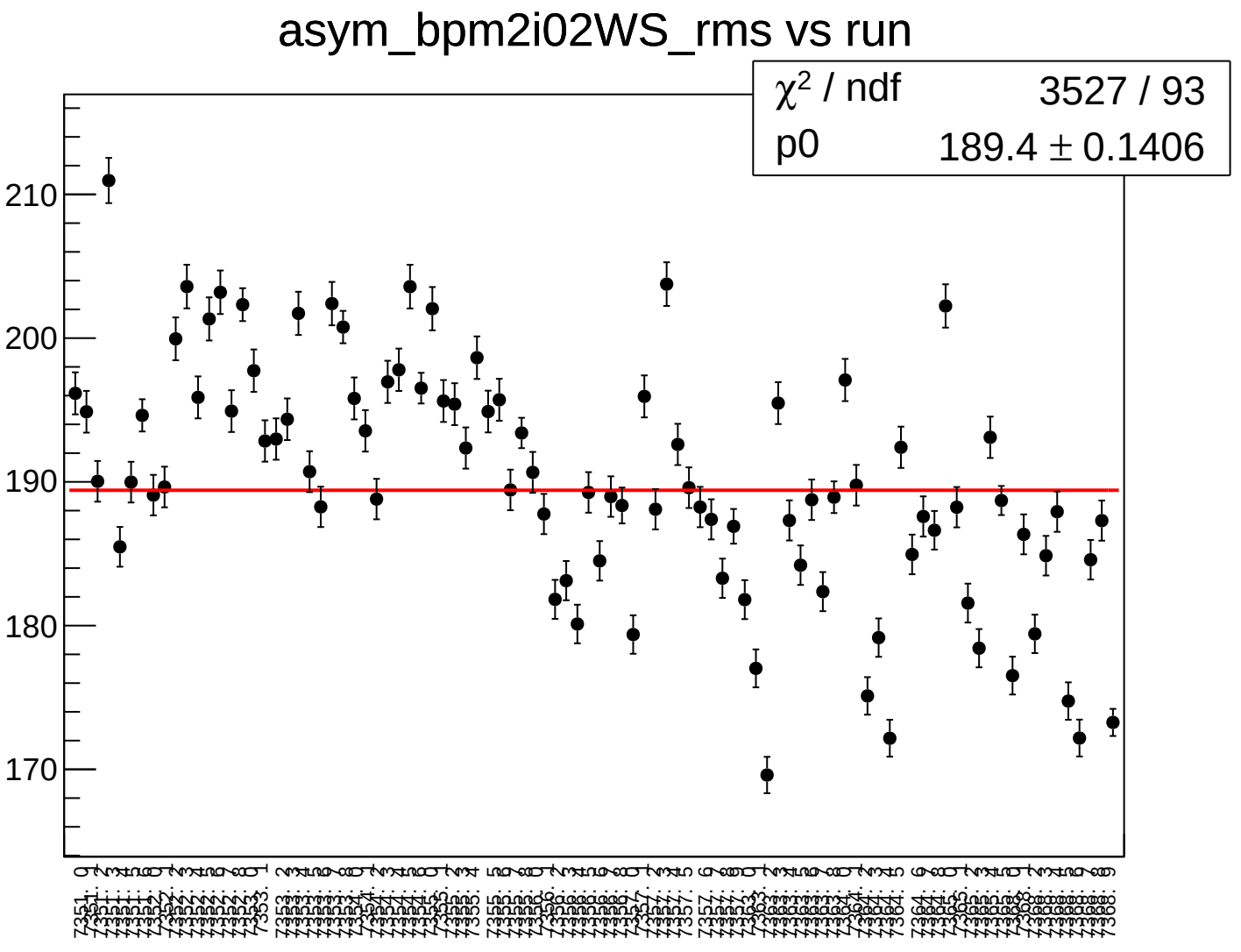

asym_bpm1i02WS_mean vs run
χ² / ndf 1.071e+04 / 93
p0 7746 ± 217.8
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 699.4
Std Dev 0
20
10
0
−10
−20
pull1D
Entries 94
Mean 0.1487
Std Dev 1.065
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

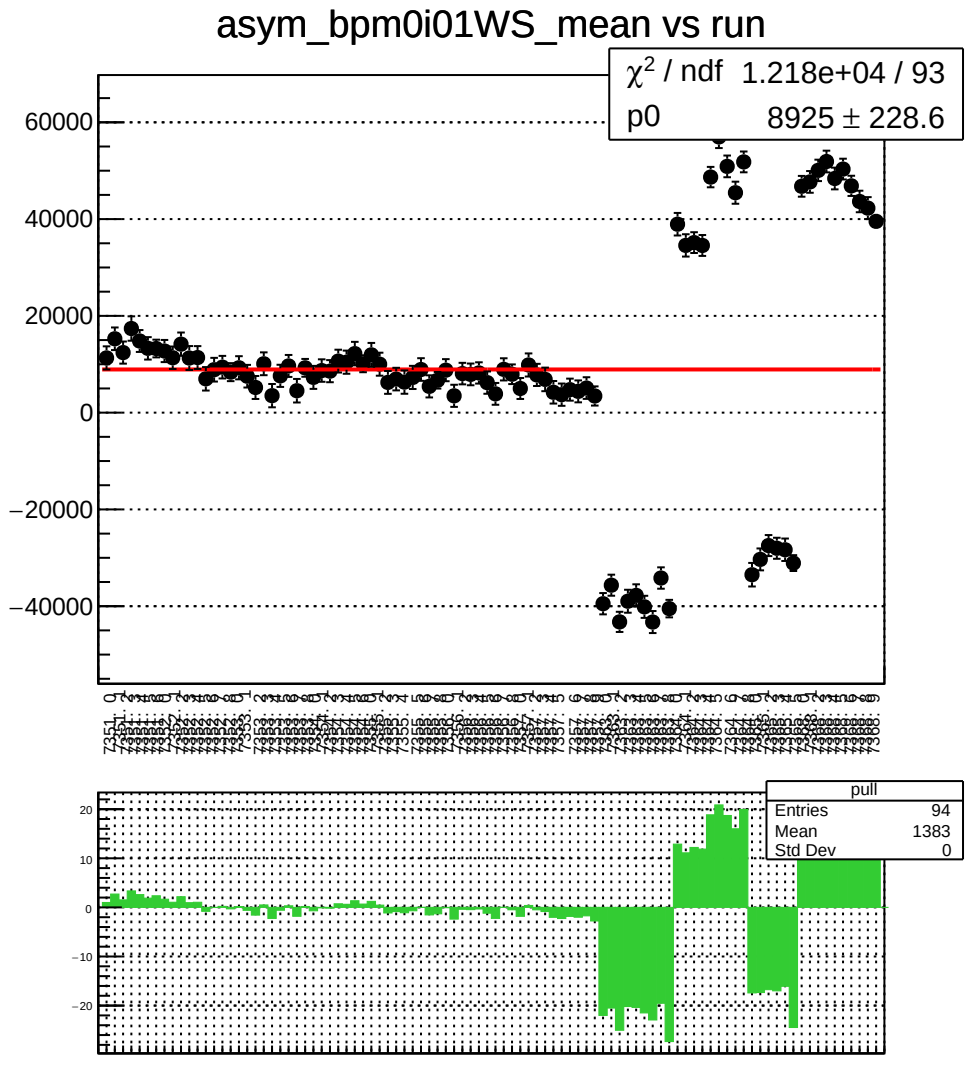

asym_bpm1i02WS_rms vs run
χ² / ndf 3446 / 93
p0 207.5 ± 0.154
230
220
210
200
190
180

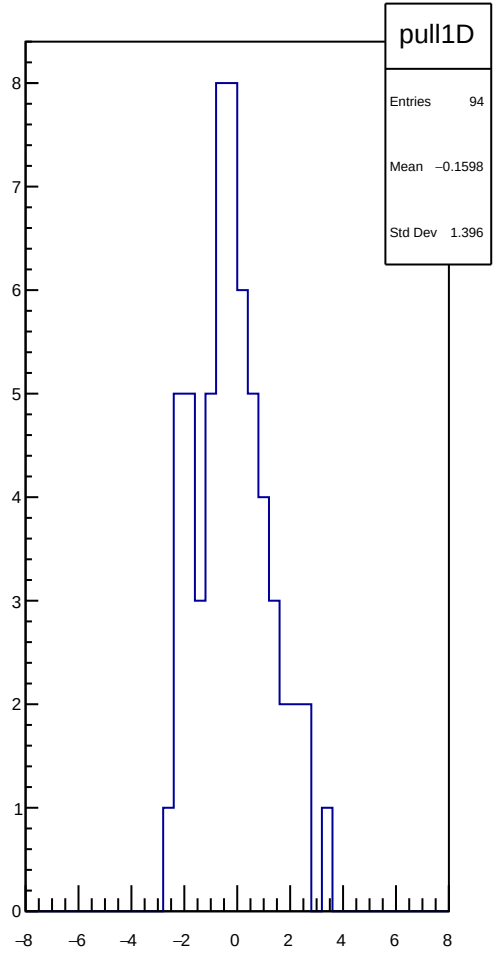

asym_bpm2i01WS_mean vs run
χ² / ndf 1.188e+04 / 93
p0 7898 ± 199.6
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 928.9
Std Dev 0
20
10
0
−10
−20
pull1D
Entries 94
Mean −0.02019
Std Dev 1.049
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

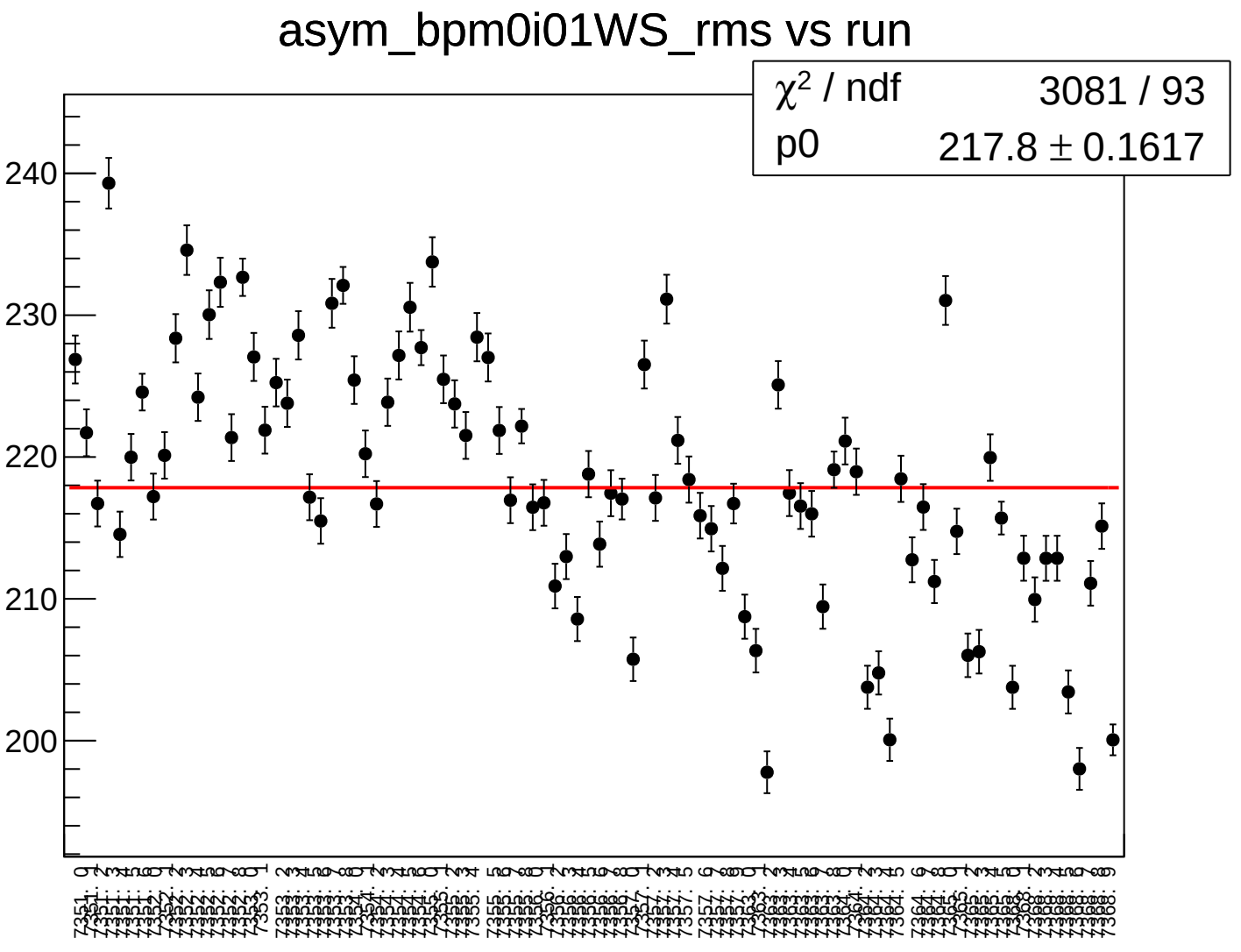

asym_bpm2i01WS_rms vs run
χ^2 / ndf 3341 / 93
p0 190.1 ± 0.1411
210
200
190
180
170

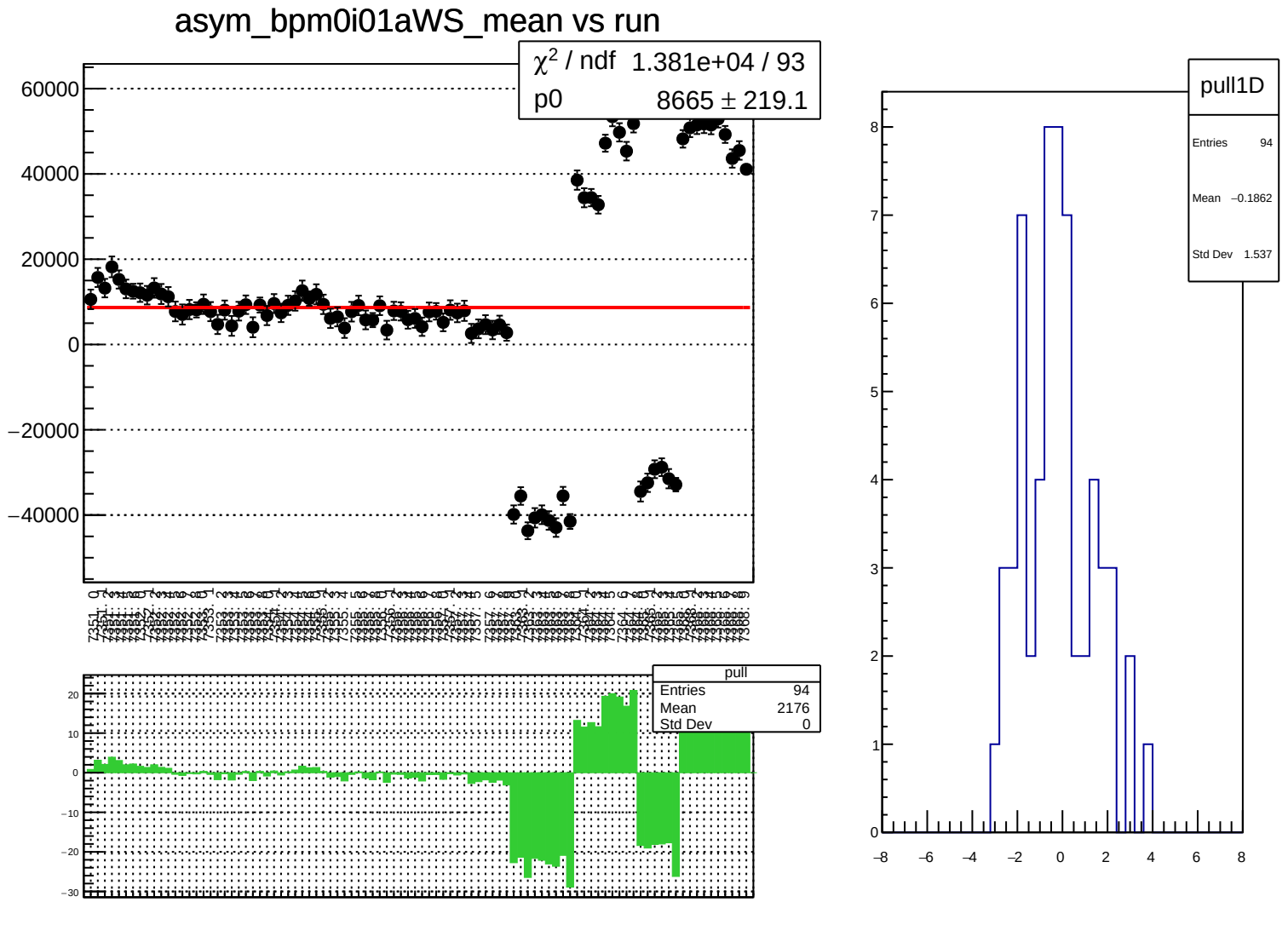

asym_bpm2i02WS_mean vs run
χ² / ndf 1.143e+04 / 93
p0 7843 ± 198.8
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 805.1
Std Dev 0
20
10
0
−10
−20
pull1D
Entries 94
Mean 0.05595
Std Dev 0.9909
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

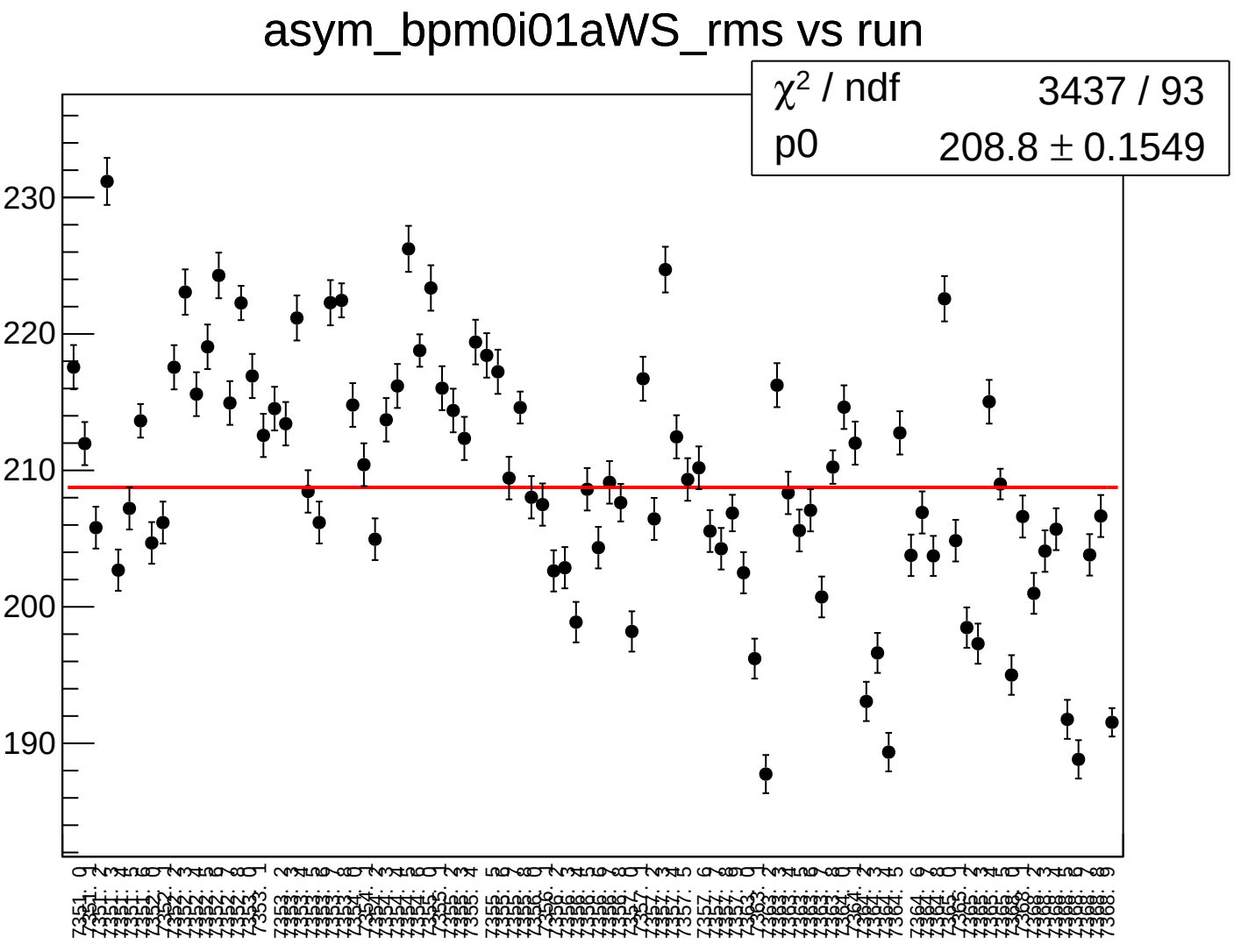

asym_bpm2i02WS_rms vs run
χ² / ndf 3527 / 93
p0 189.4 ± 0.1406
210
200
190
180
170

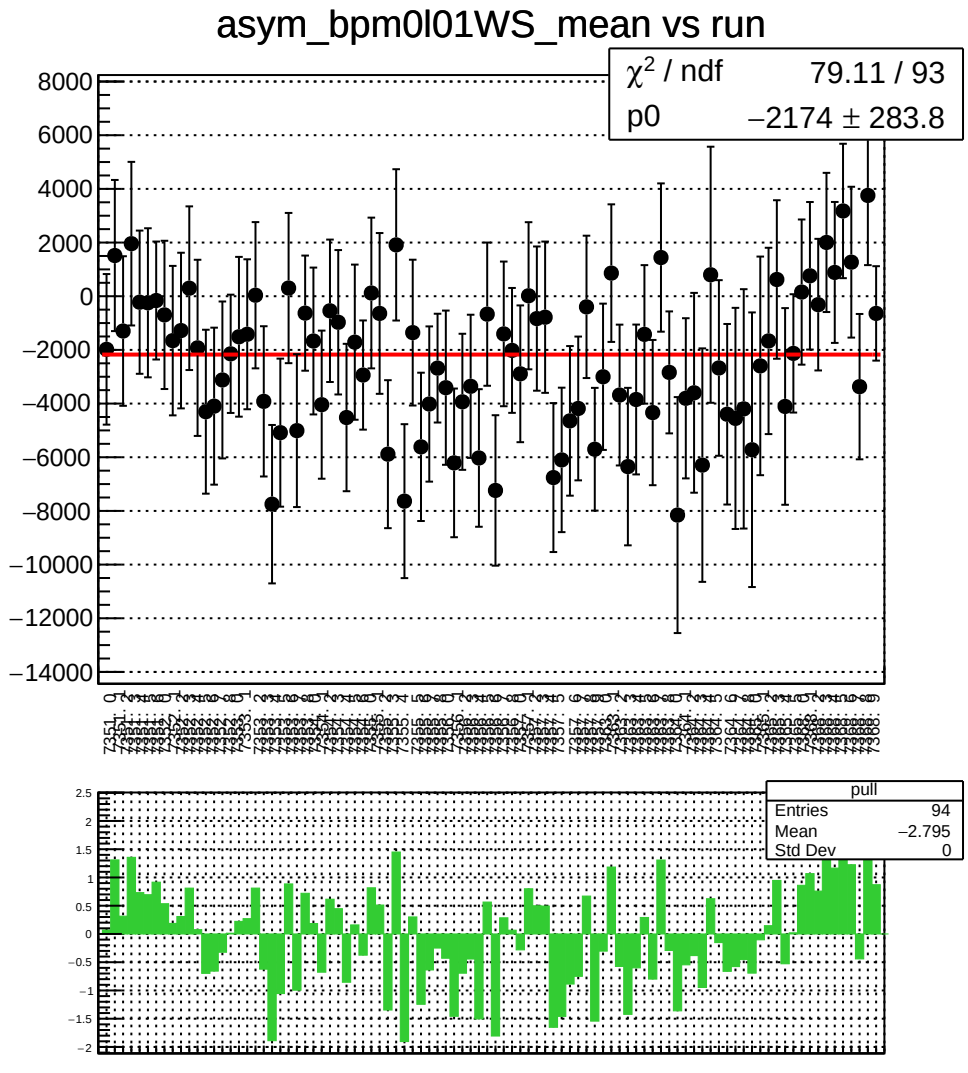

asym_bpm0i01WS_mean vs run
χ² / ndf 1.218e+04 / 93
p0 8925 ± 228.6
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 1383
Std Dev 0
20
10
0
−10
−20

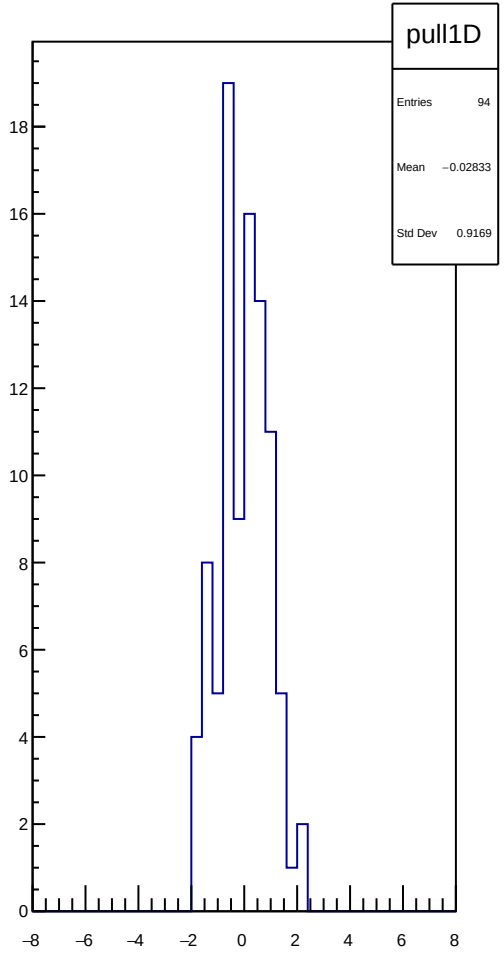

pull1D
Entries 94
Mean −0.1598
Std Dev 1.396
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

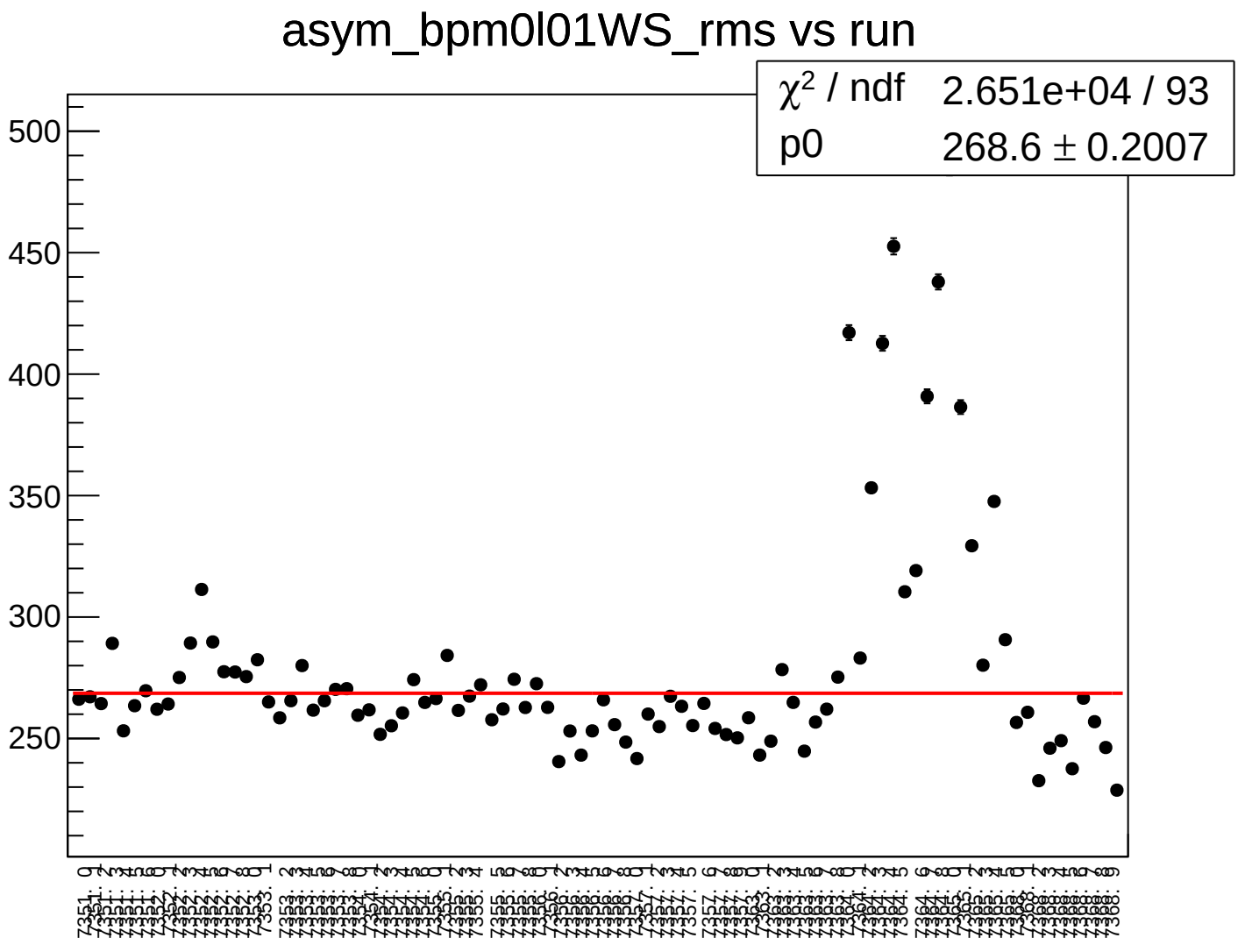

asym_bpm0i01WS_rms vs run
χ^2 / ndf 3081 / 93
p0 217.8 ± 0.1617
240
230
220
210
200

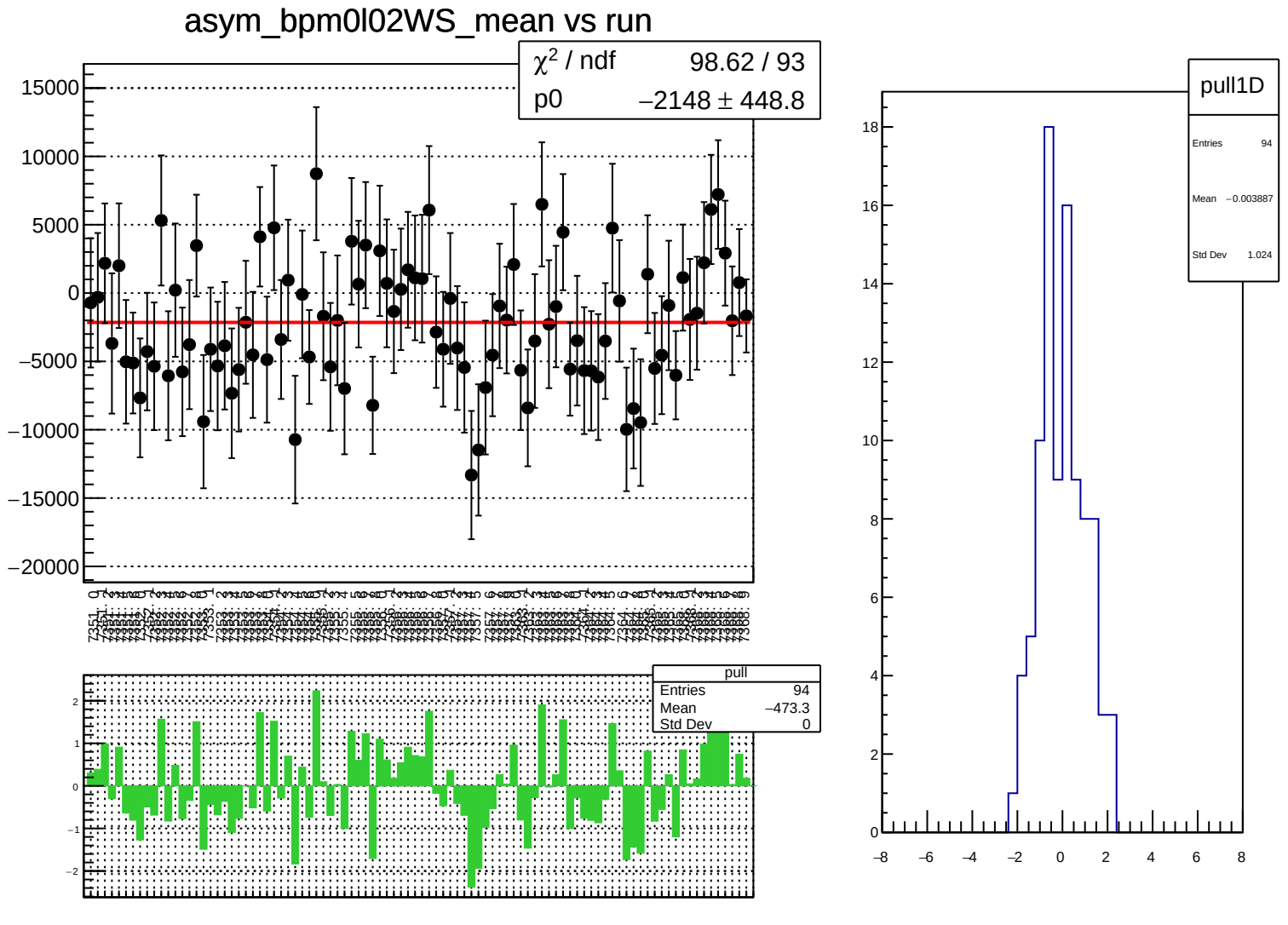

asym_bpm0i01aWS_mean vs run
χ² / ndf 1.381e+04 / 93
p0 8665 ± 219.1
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 2176
Std Dev 0
20
10
0
−10
−20
−30
pull1D
Entries 94
Mean −0.1862
Std Dev 1.537
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

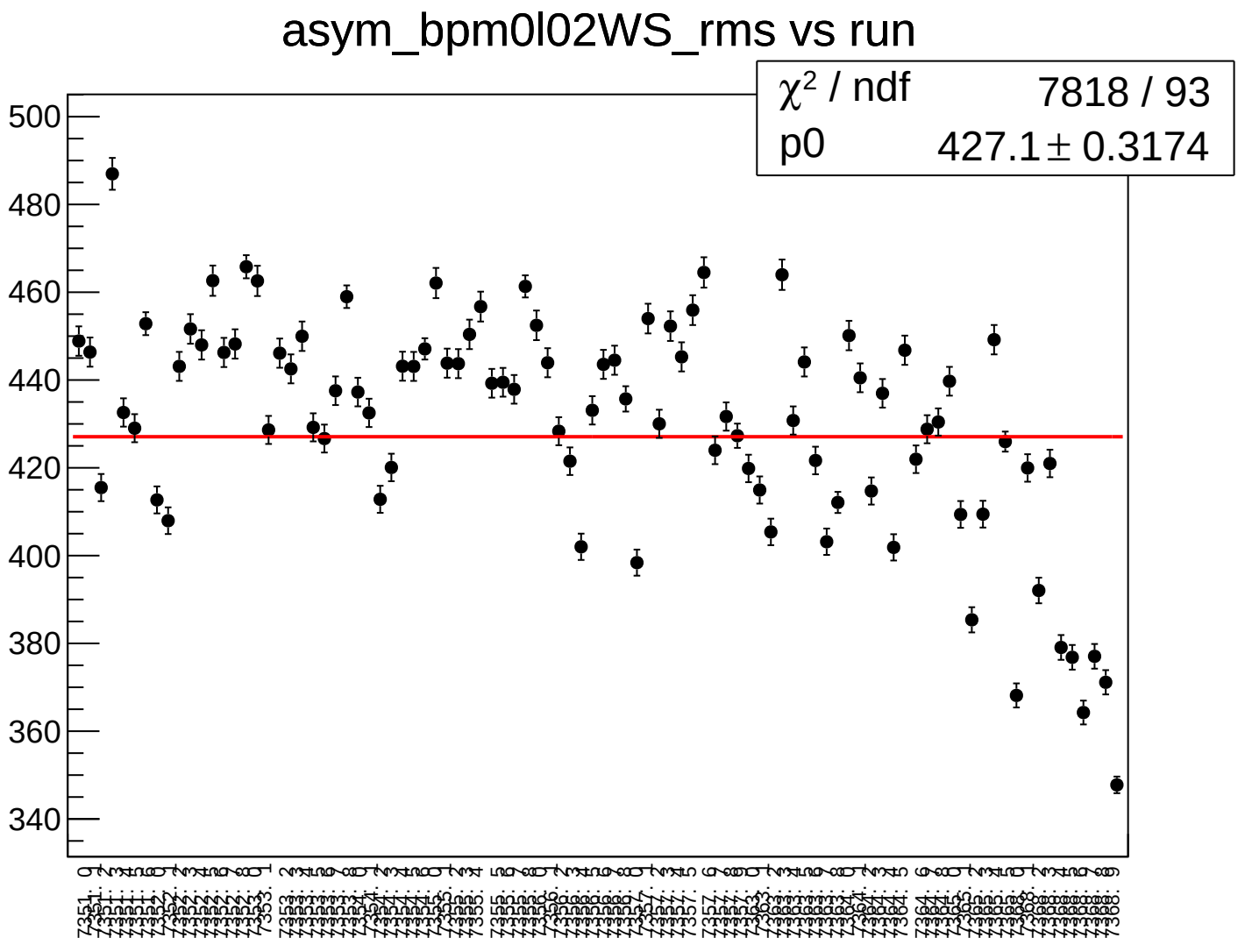

asym_bpm0i01aWS_rms vs run
χ² / ndf 3437 / 93
p0 208.8 ± 0.1549
230
220
210
200
190

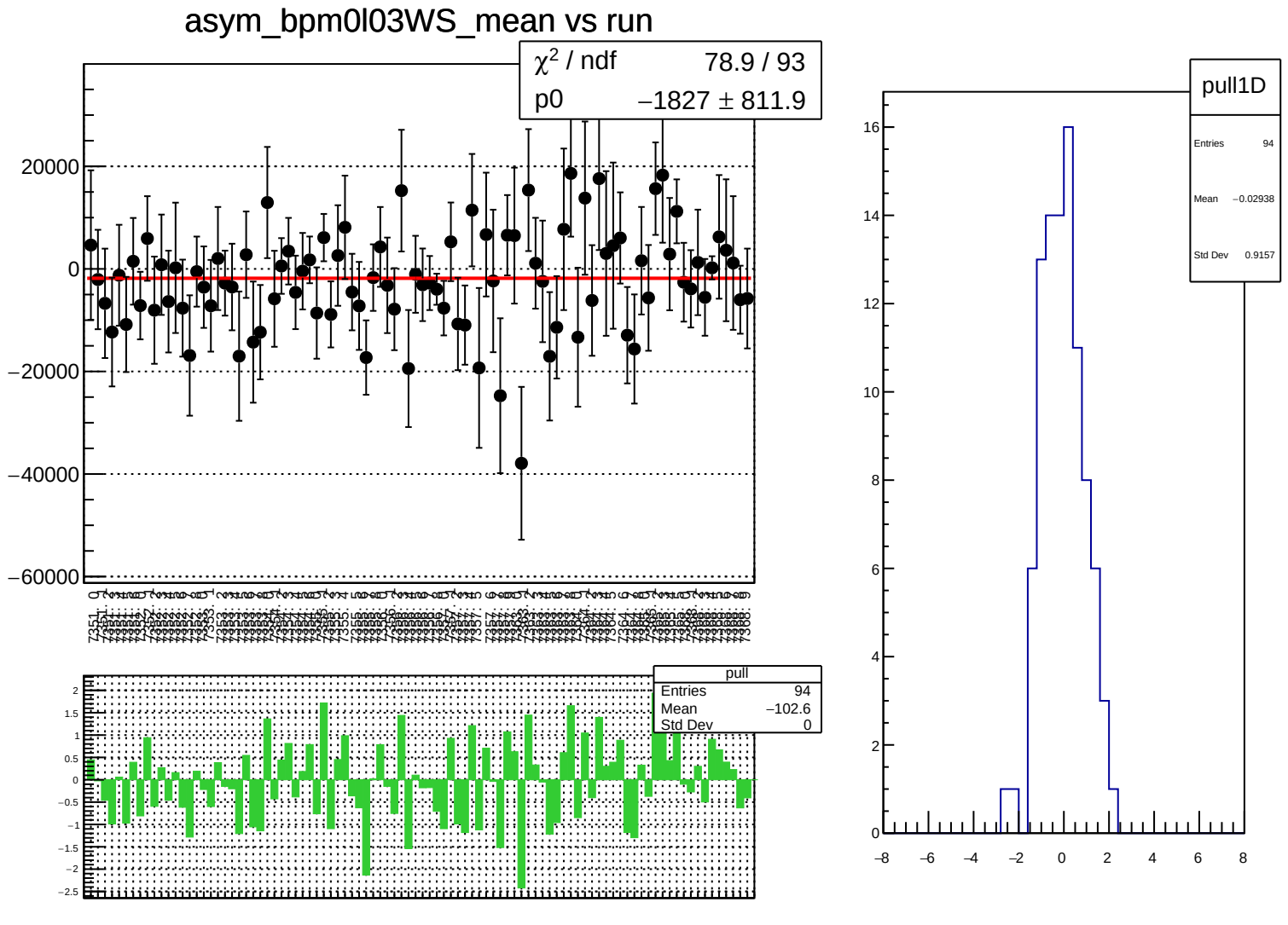

asym_bpm0l01WS_mean vs run
χ² / ndf 79.11 / 93
p0 −2174 ± 283.8
pull
Entries 94
Mean −2.795
Std Dev 0

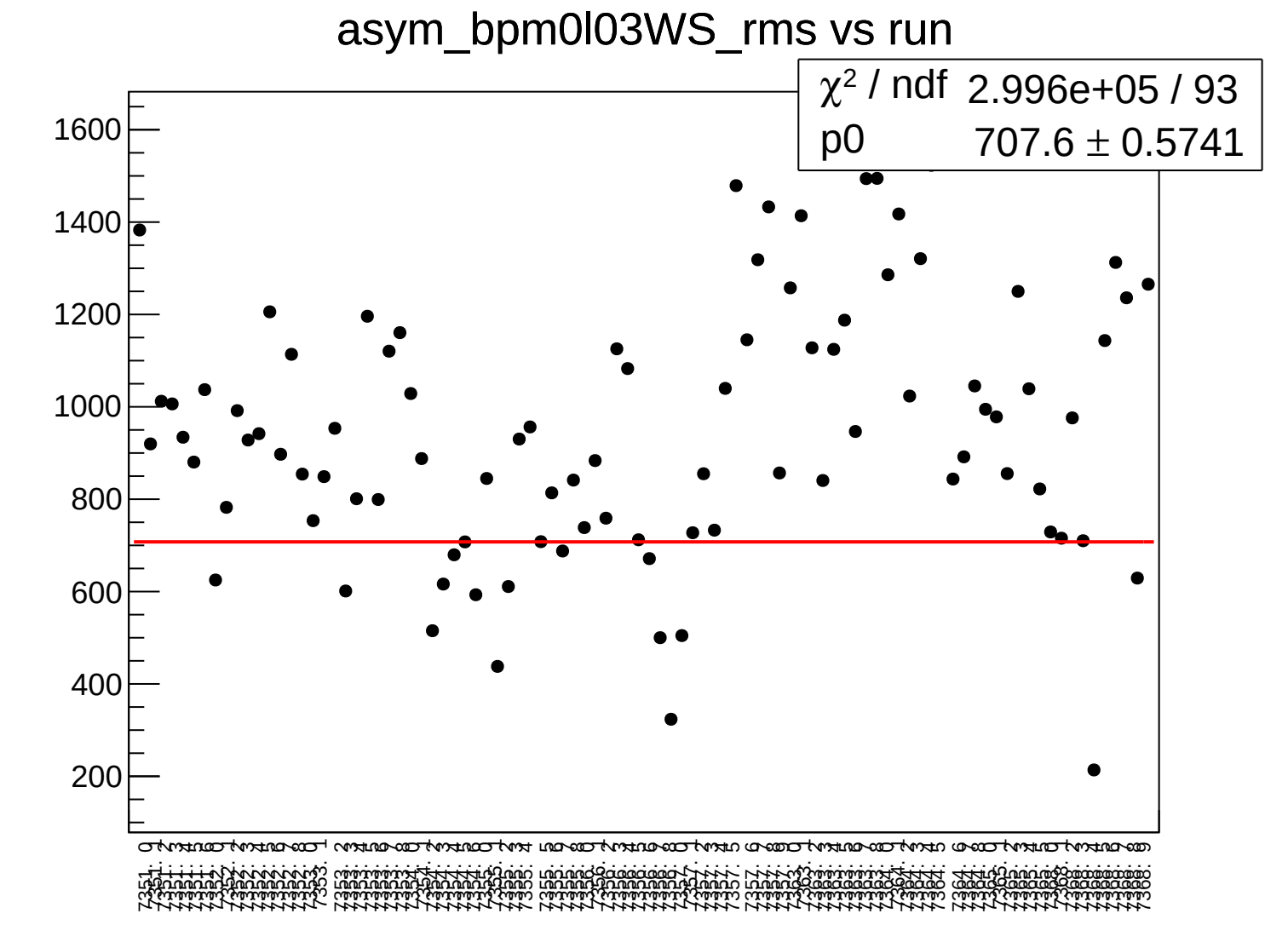

pull1D
Entries 94
Mean −0.02833
Std Dev 0.9169

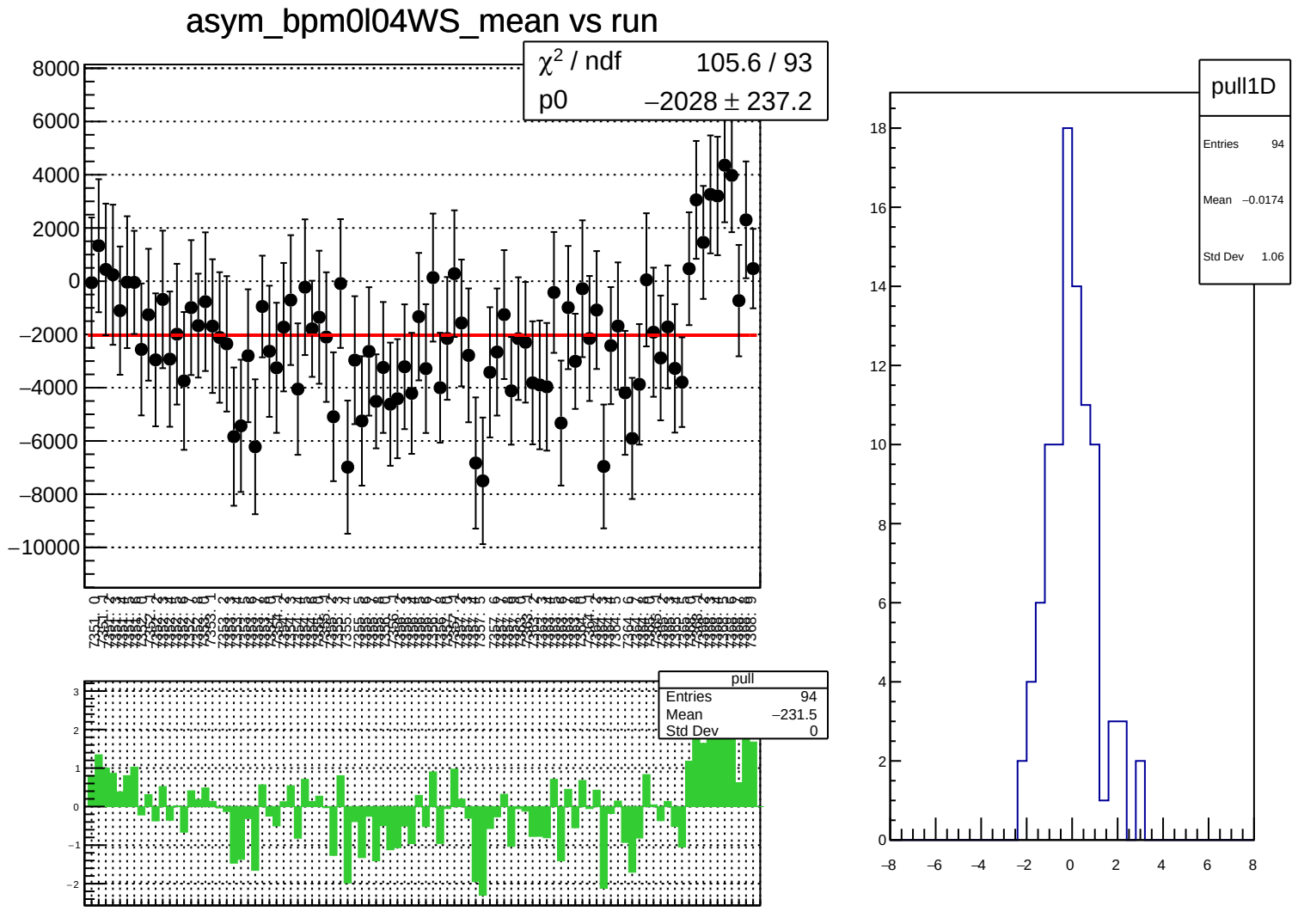

asym_bpm0l01WS_rms vs run
χ² / ndf 2.651e+04 / 93
p0 268.6 ± 0.2007
500
450
400
350
300
250

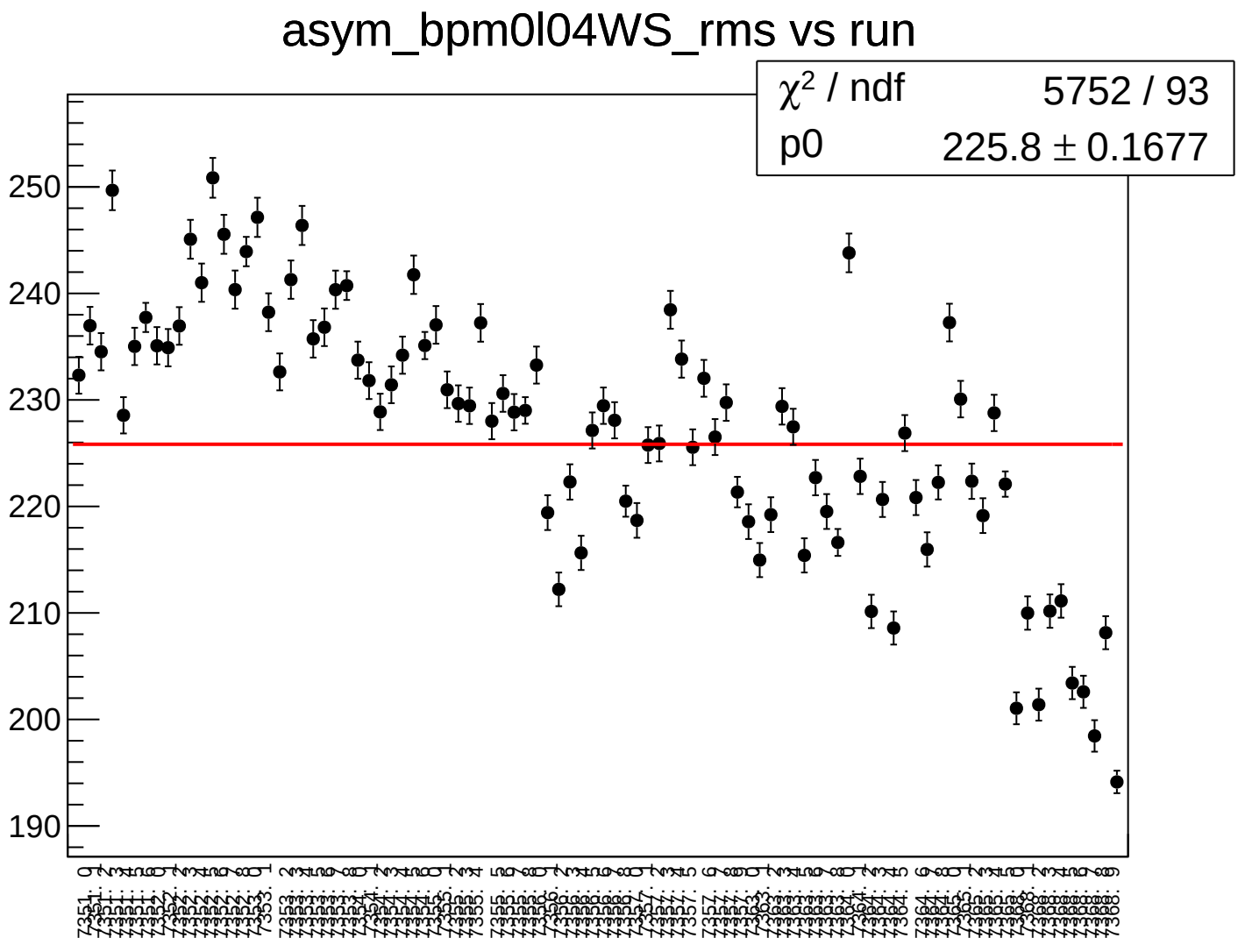

asym_bpm0l02WS_mean vs run
χ² / ndf 98.62 / 93
p0 −2148 ± 448.8
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 94
Mean −473.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.003887
Std Dev 1.024
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

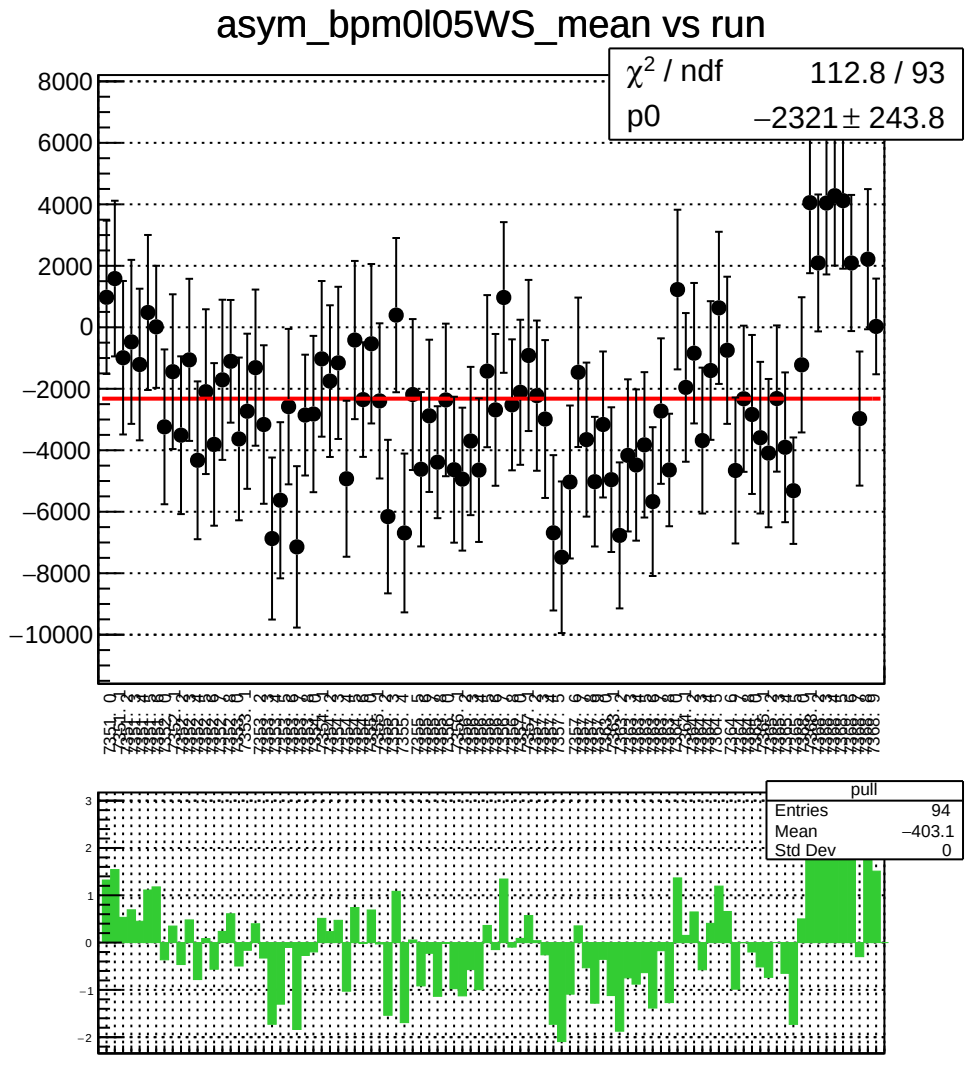

asym_bpm0l02WS_rms vs run
χ² / ndf 7818 / 93
p0 427.1 ± 0.3174
500
480
460
440
420
400
380
360
340

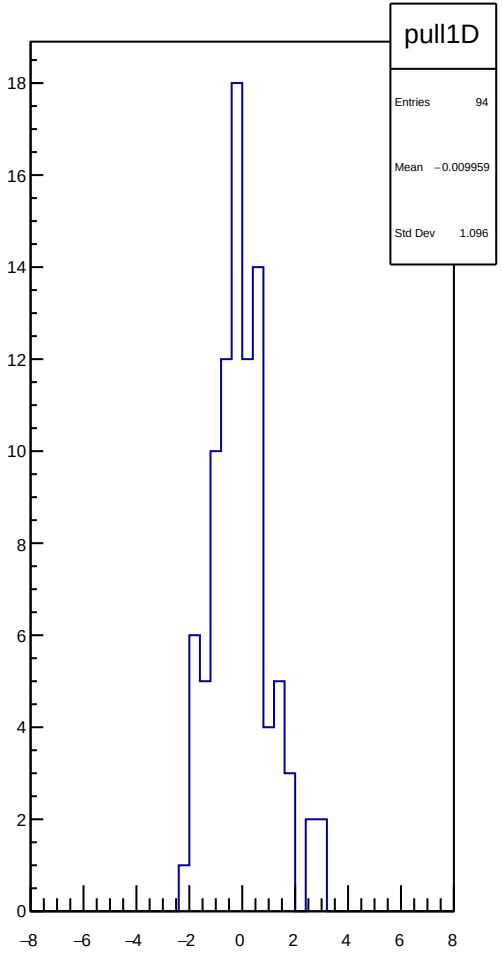

asym_bpm0l03WS_mean vs run
χ² / ndf 78.9 / 93
p0 −1827 ± 811.9
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −102.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 94
Mean −0.02938
Std Dev 0.9157
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

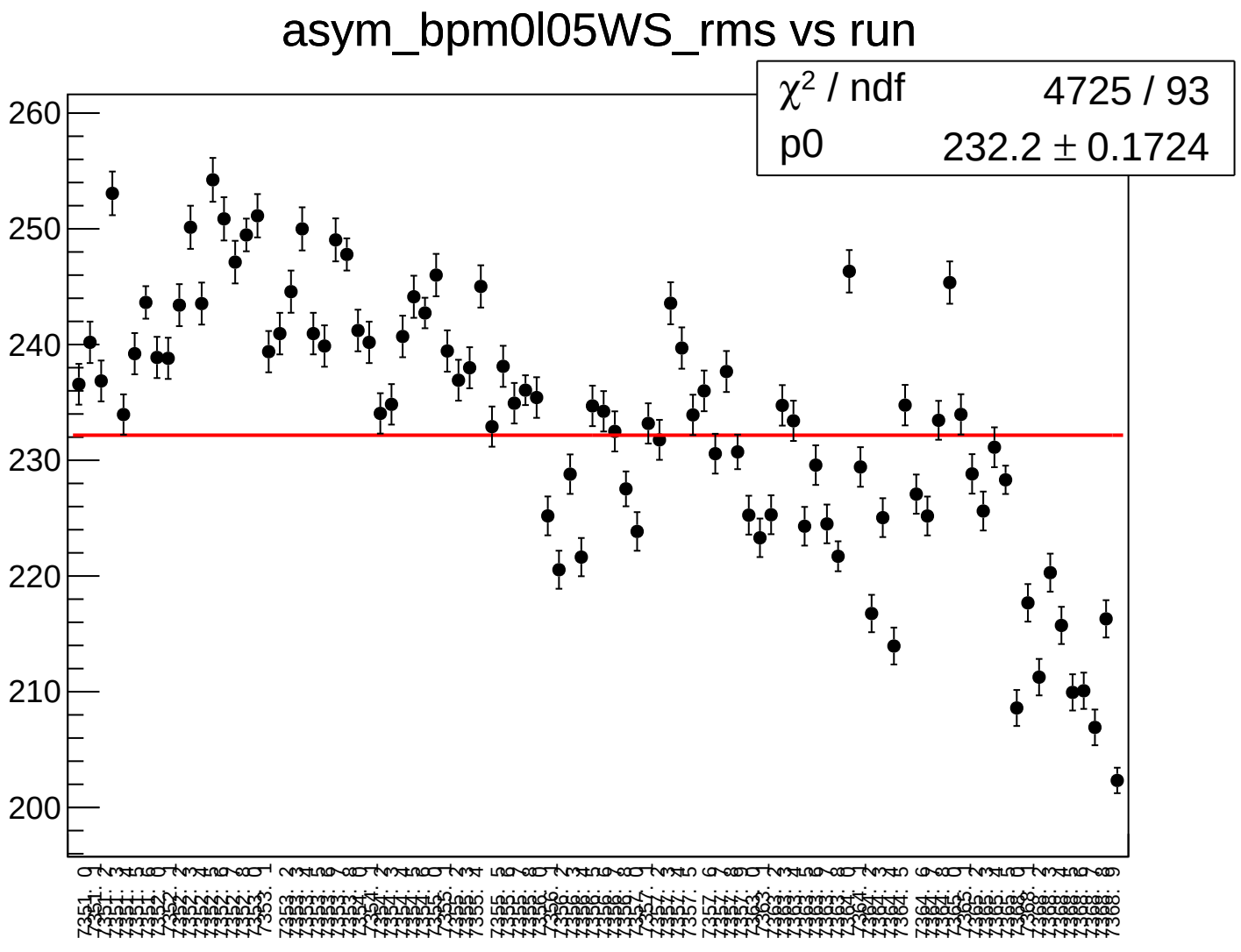

asym_bpm0l03WS_rms vs run
χ² / ndf 2.996e+05 / 93
p0 707.6 ± 0.5741
1600
1400
1200
1000
800
600
400
200

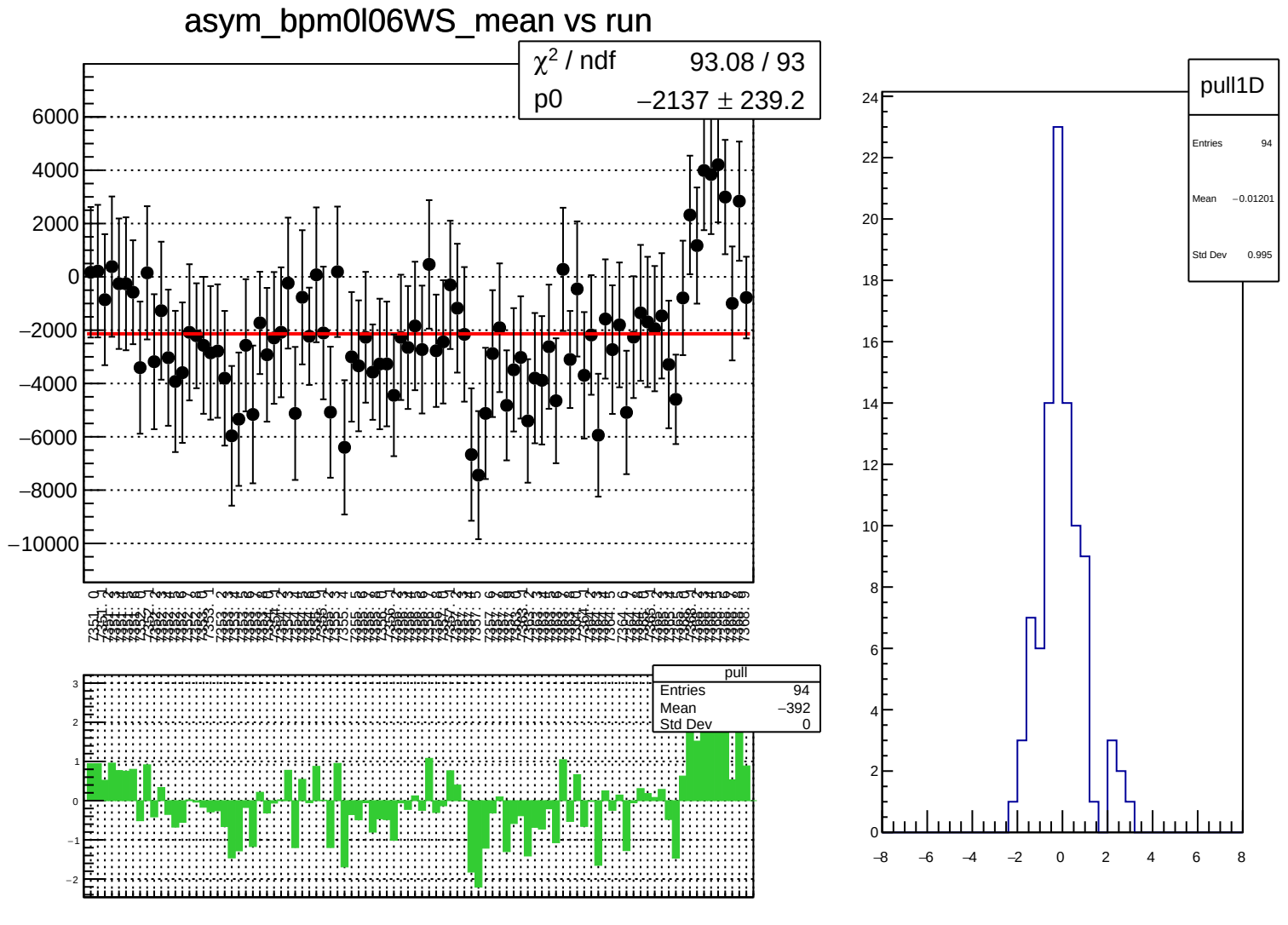

asym_bpm0l04WS_mean vs run
χ² / ndf 105.6 / 93
p0 −2028 ± 237.2
pull
Entries 94
Mean −231.5
Std Dev 0
pull1D
Entries 94
Mean −0.0174
Std Dev 1.06

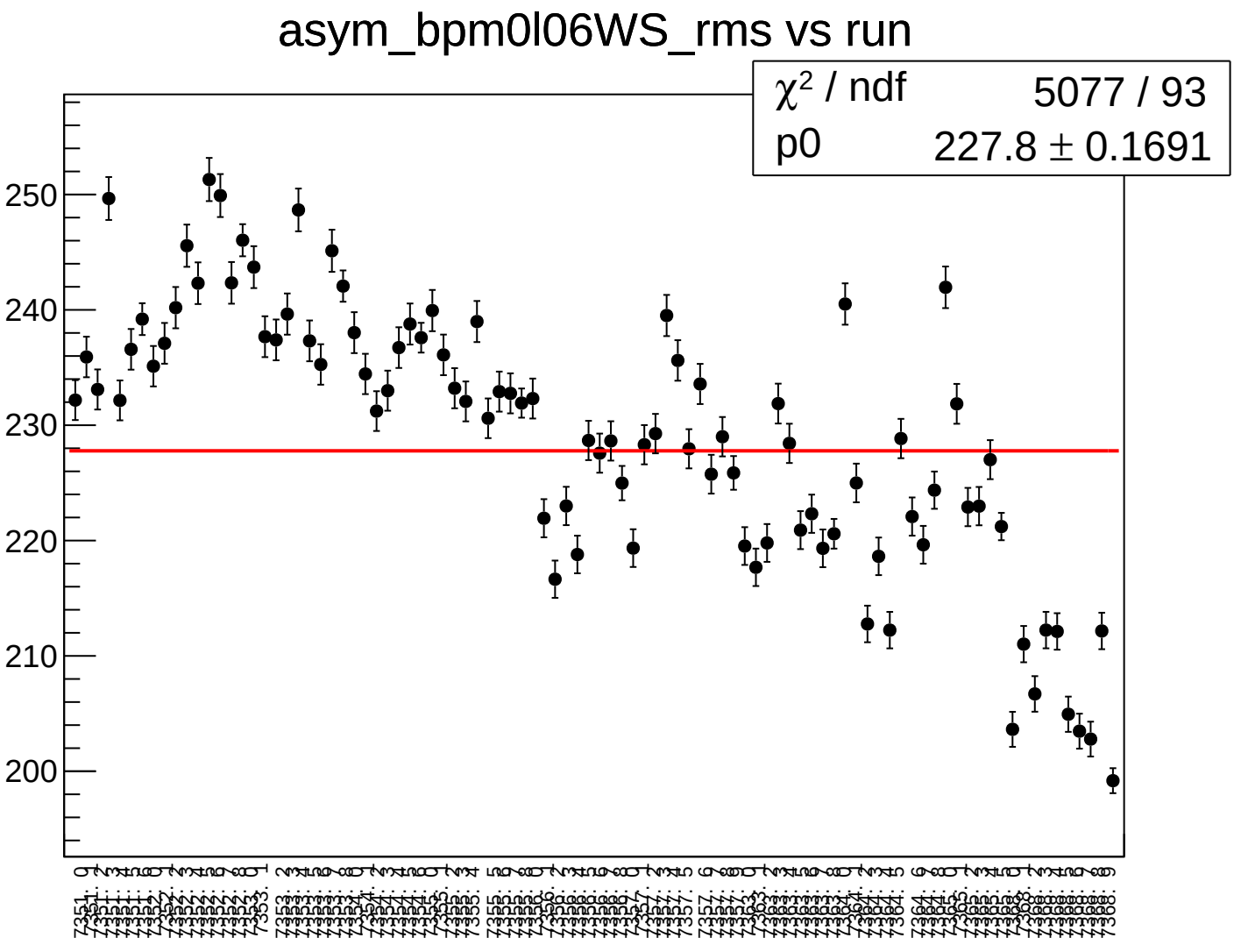

asym_bpm0l04WS_rms vs run
χ² / ndf 5752 / 93
p0 225.8 ± 0.1677
250
240
230
220
210
200
190

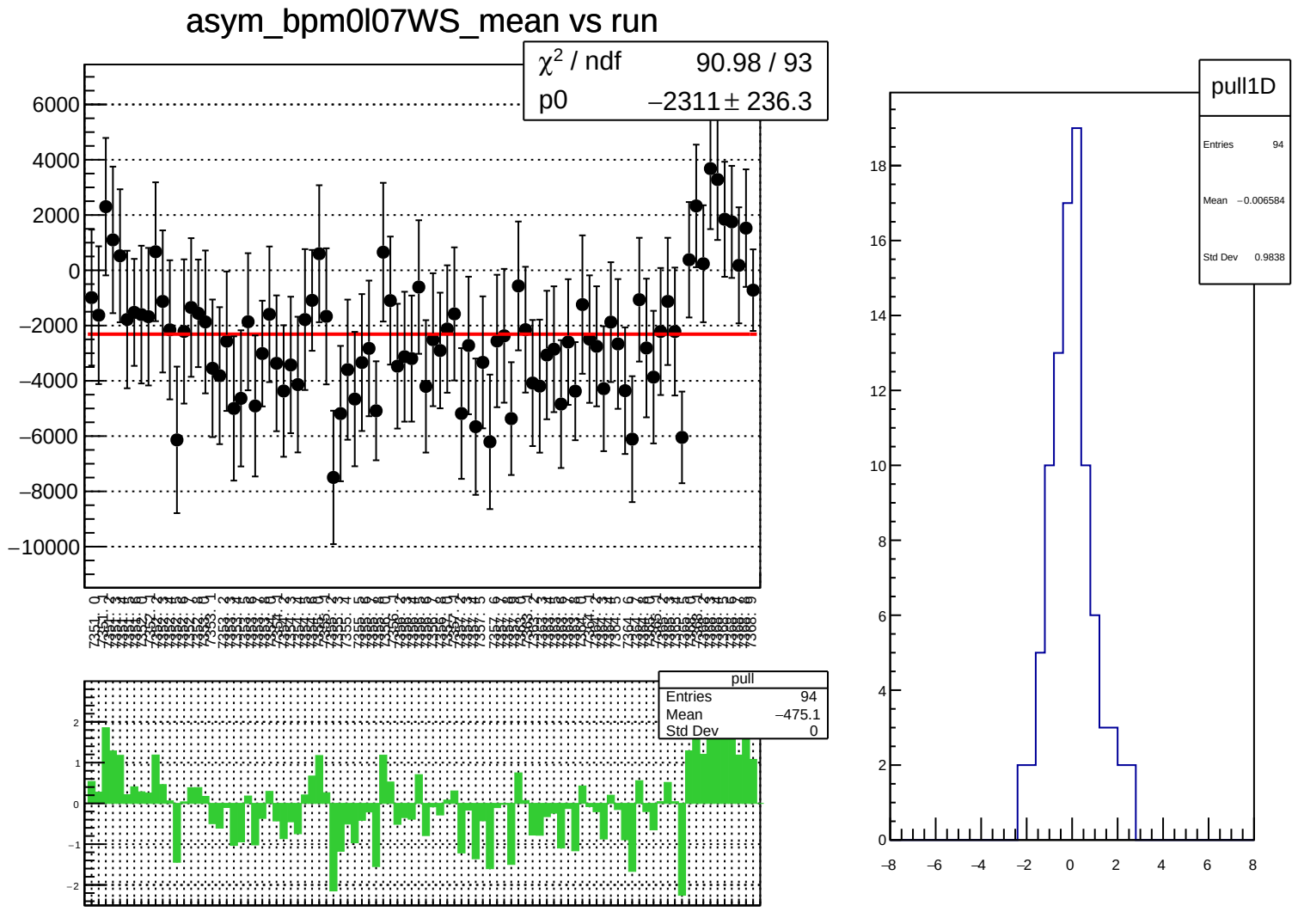

asym_bpm0l05WS_mean vs run
χ² / ndf 112.8 / 93
p0 −2321 ± 243.8
pull
Entries 94
Mean −403.1
Std Dev 0

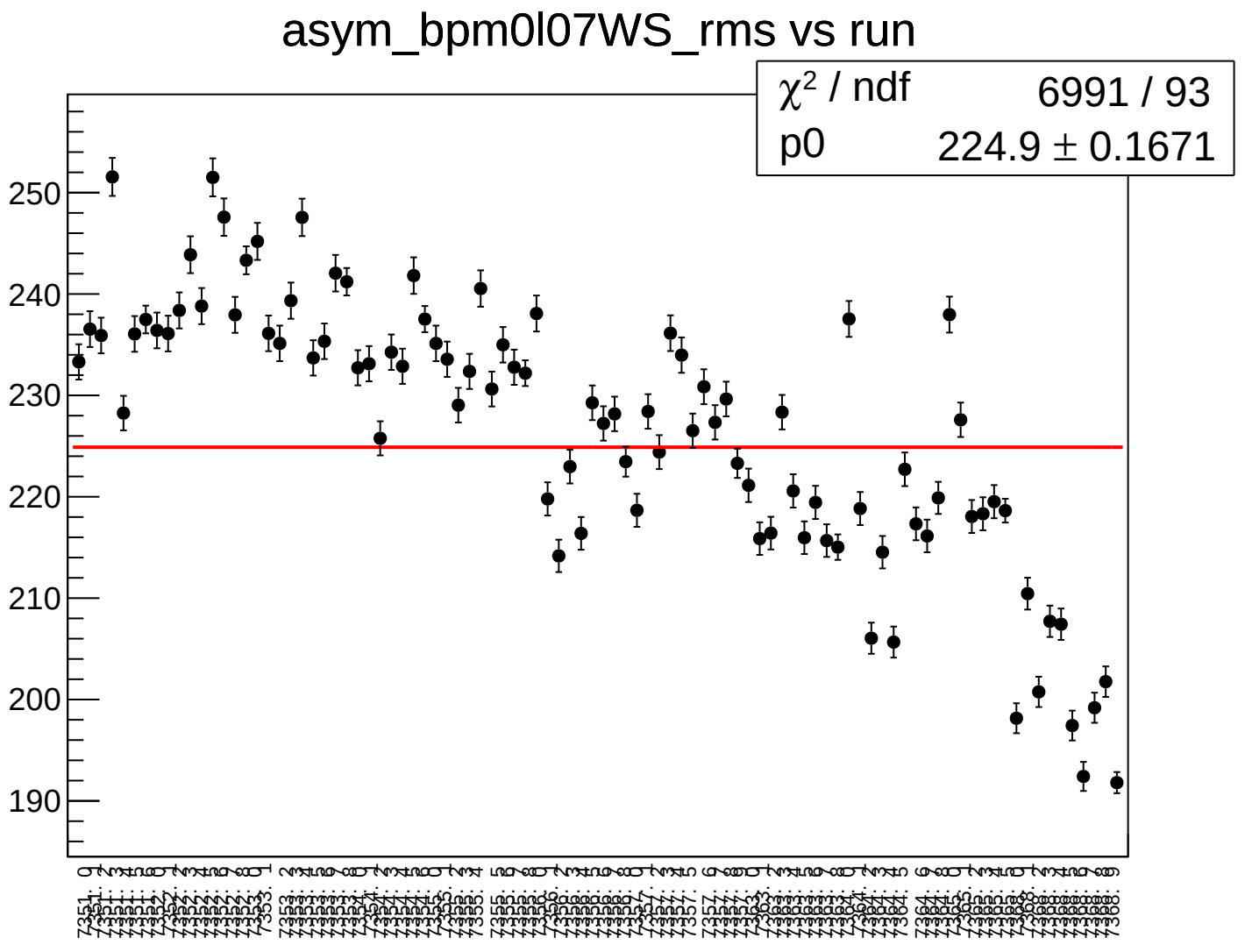

pull1D
Entries 94
Mean −0.009959
Std Dev 1.096

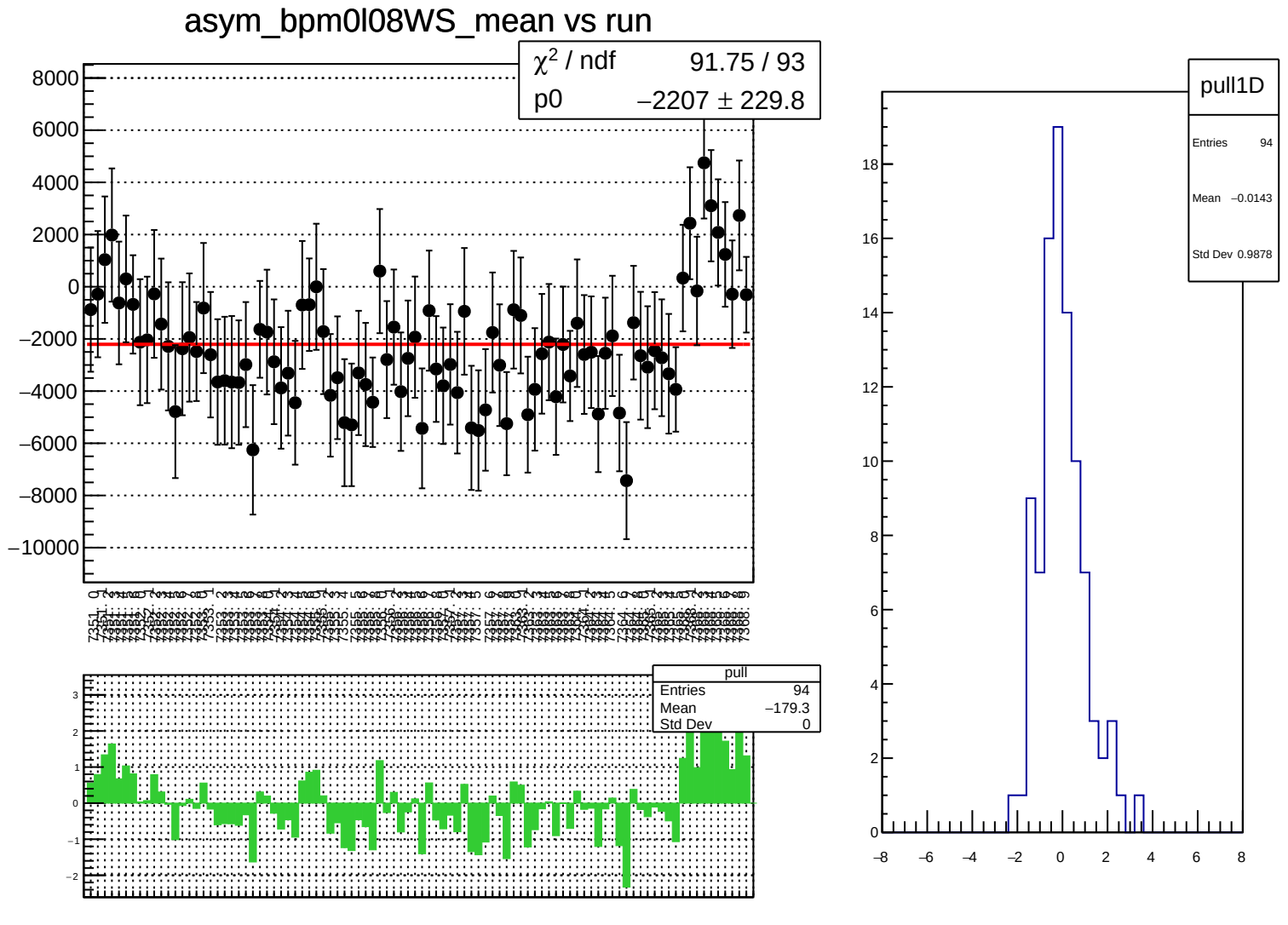

asym_bpm0l05WS_rms vs run
χ² / ndf 4725 / 93
p0 232.2 ± 0.1724
260
250
240
230
220
210
200

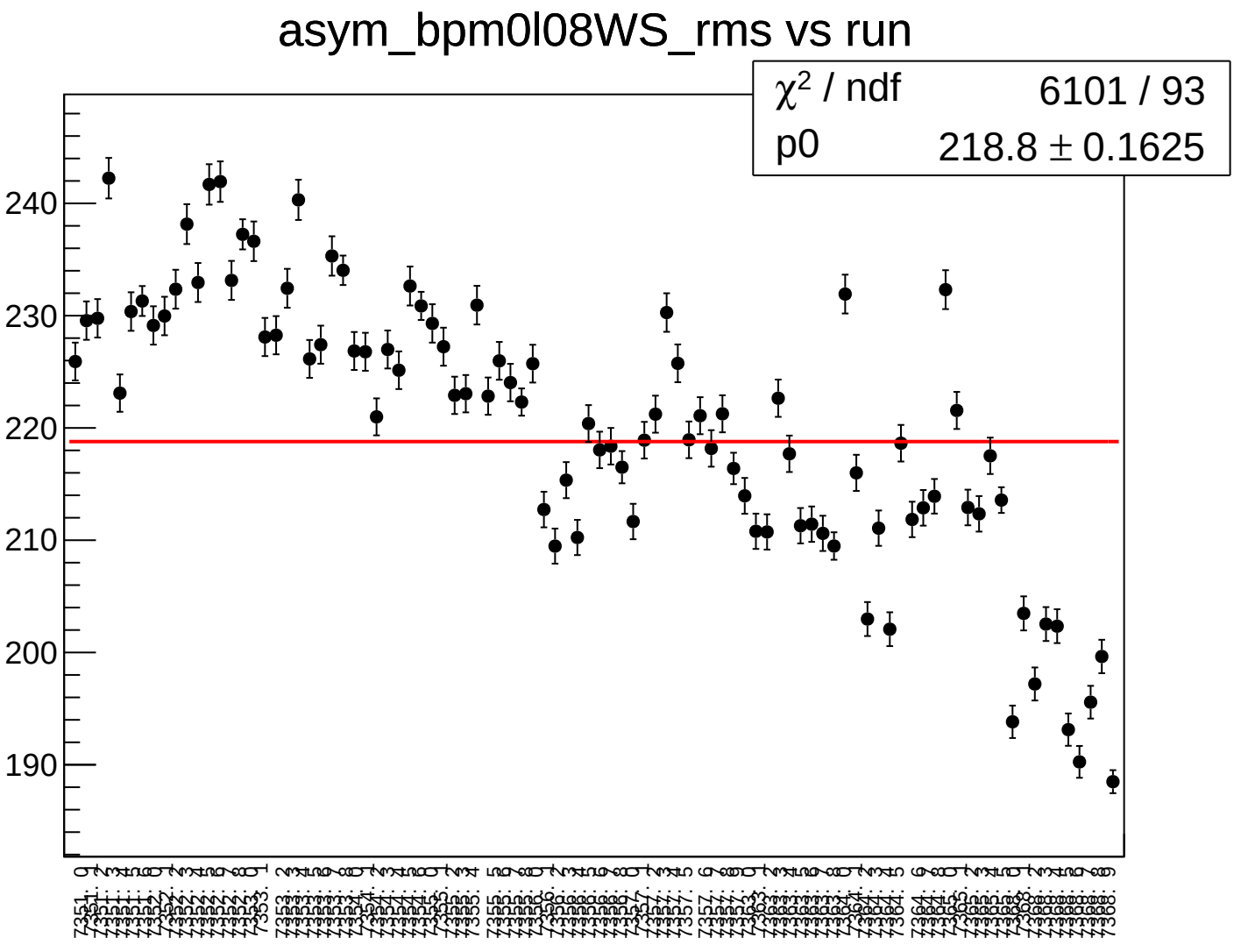

asym_bpm0l06WS_mean vs run
χ² / ndf 93.08 / 93
p0 −2137 ± 239.2
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
pull
Entries 94
Mean −392
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.01201
Std Dev 0.995
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

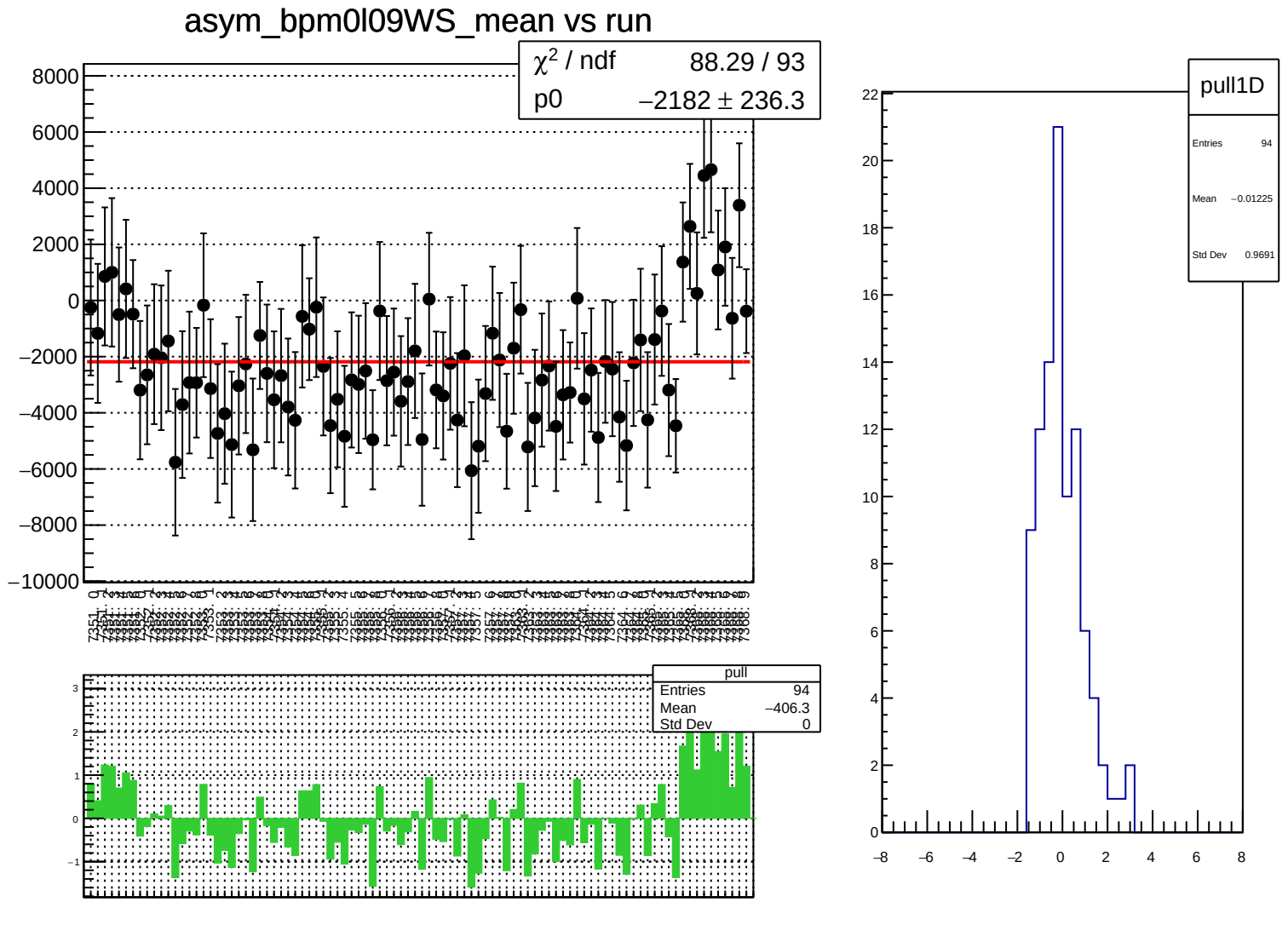

asym_bpm0l06WS_rms vs run
χ² / ndf 5077 / 93
p0 227.8 ± 0.1691
250
240
230
220
210
200

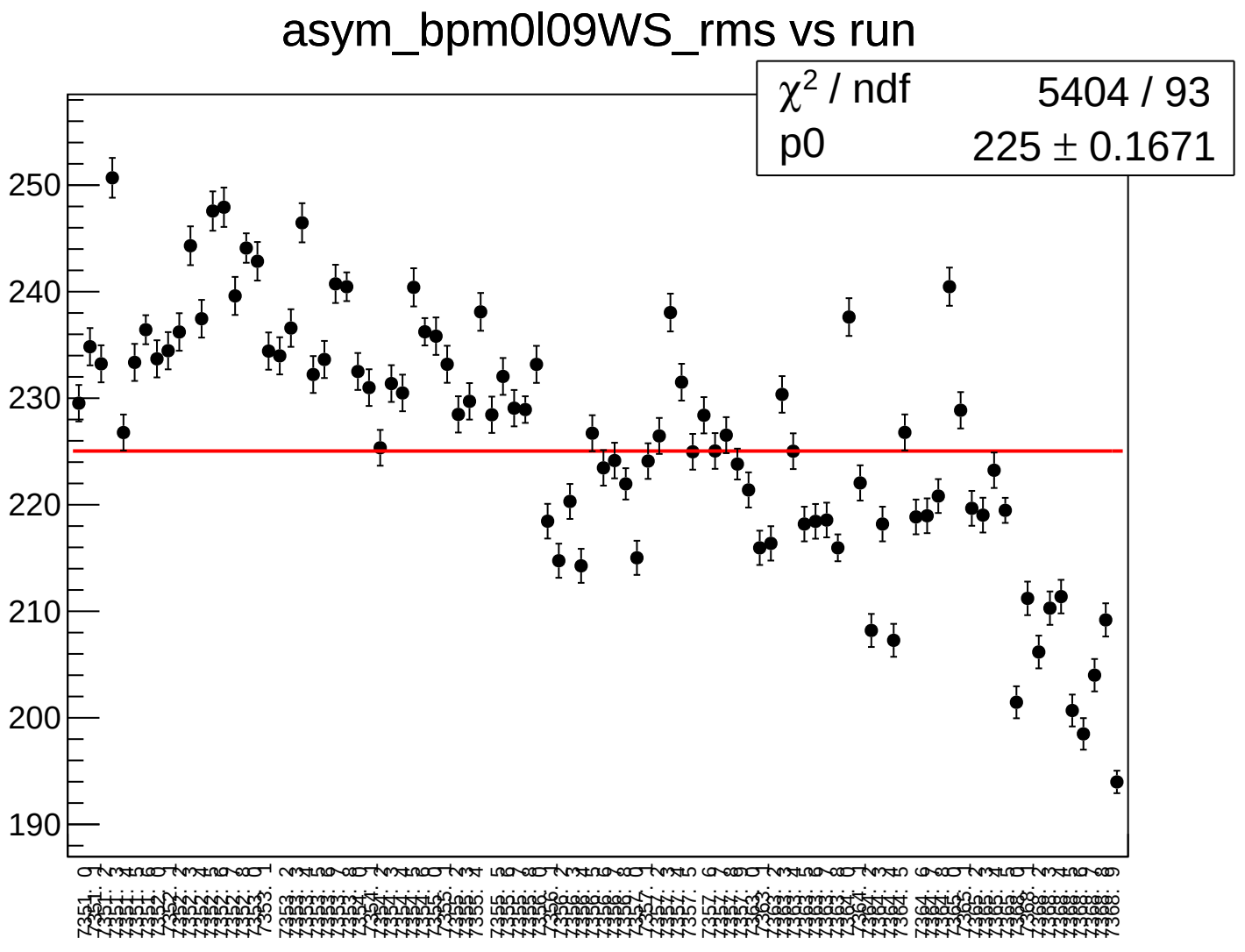

asym_bpm0l07WS_mean vs run
χ² / ndf 90.98 / 93
p0 −2311 ± 236.3
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
pull
Entries 94
Mean −475.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.006584
Std Dev 0.9838
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

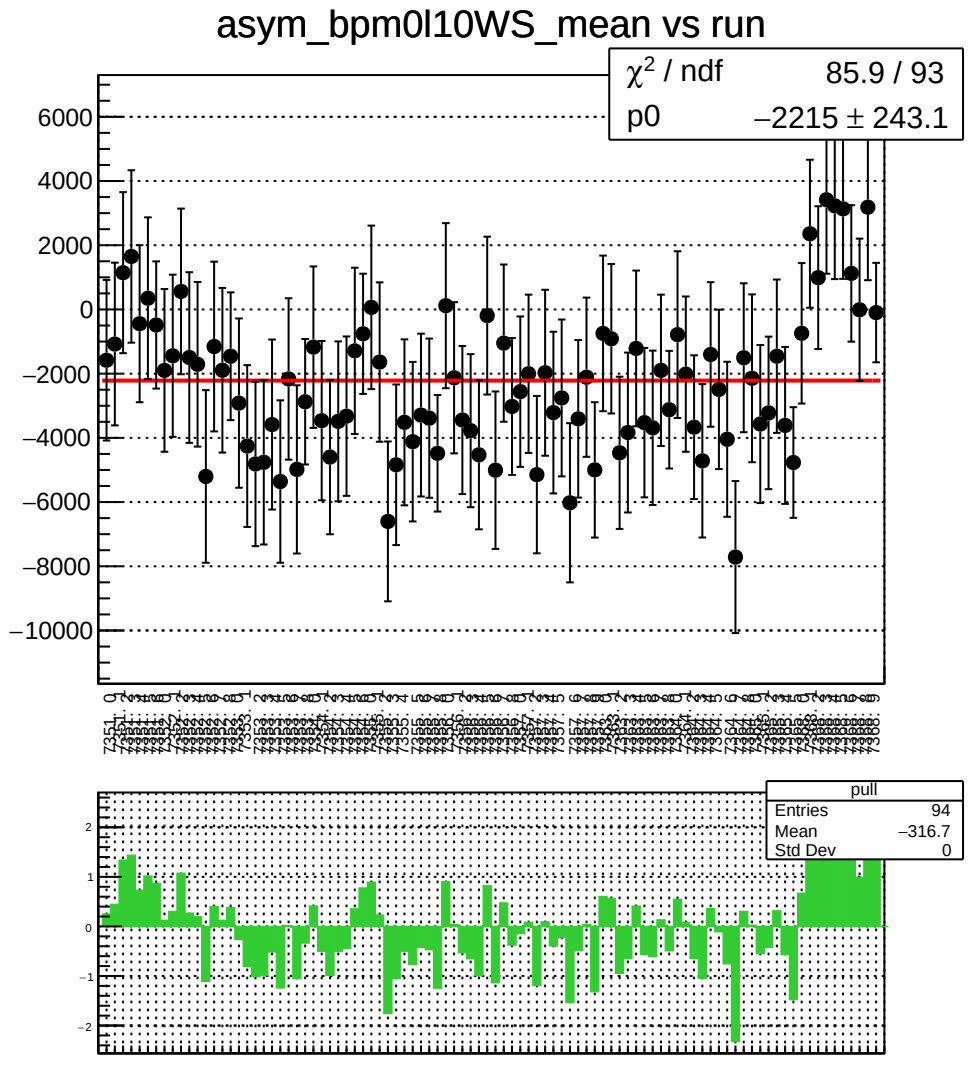

asym_bpm0l07WS_rms vs run
χ² / ndf 6991 / 93
p0 224.9 ± 0.1671
250
240
230
220
210
200
190

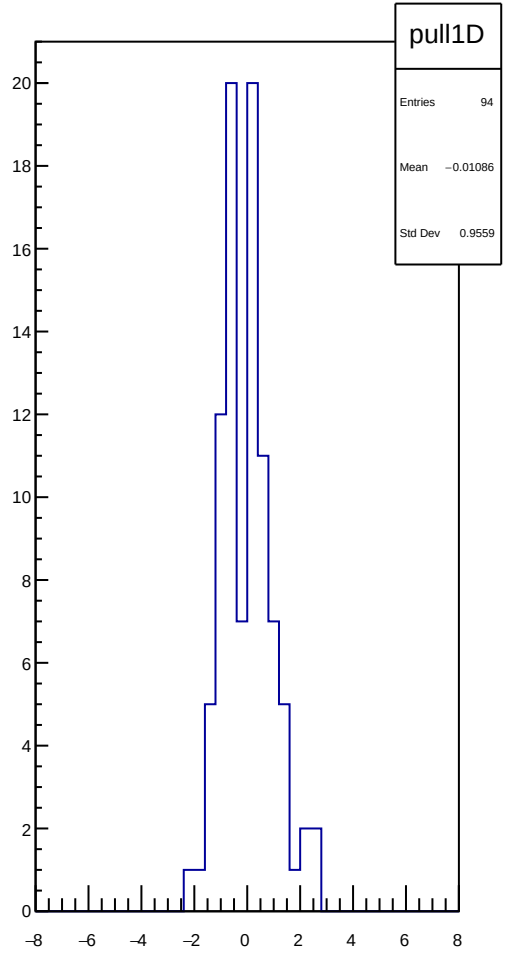

asym_bpm0l08WS_mean vs run
χ² / ndf 91.75 / 93
p0 −2207 ± 229.8
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
pull
Entries 94
Mean −179.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.0143
Std Dev 0.9878
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

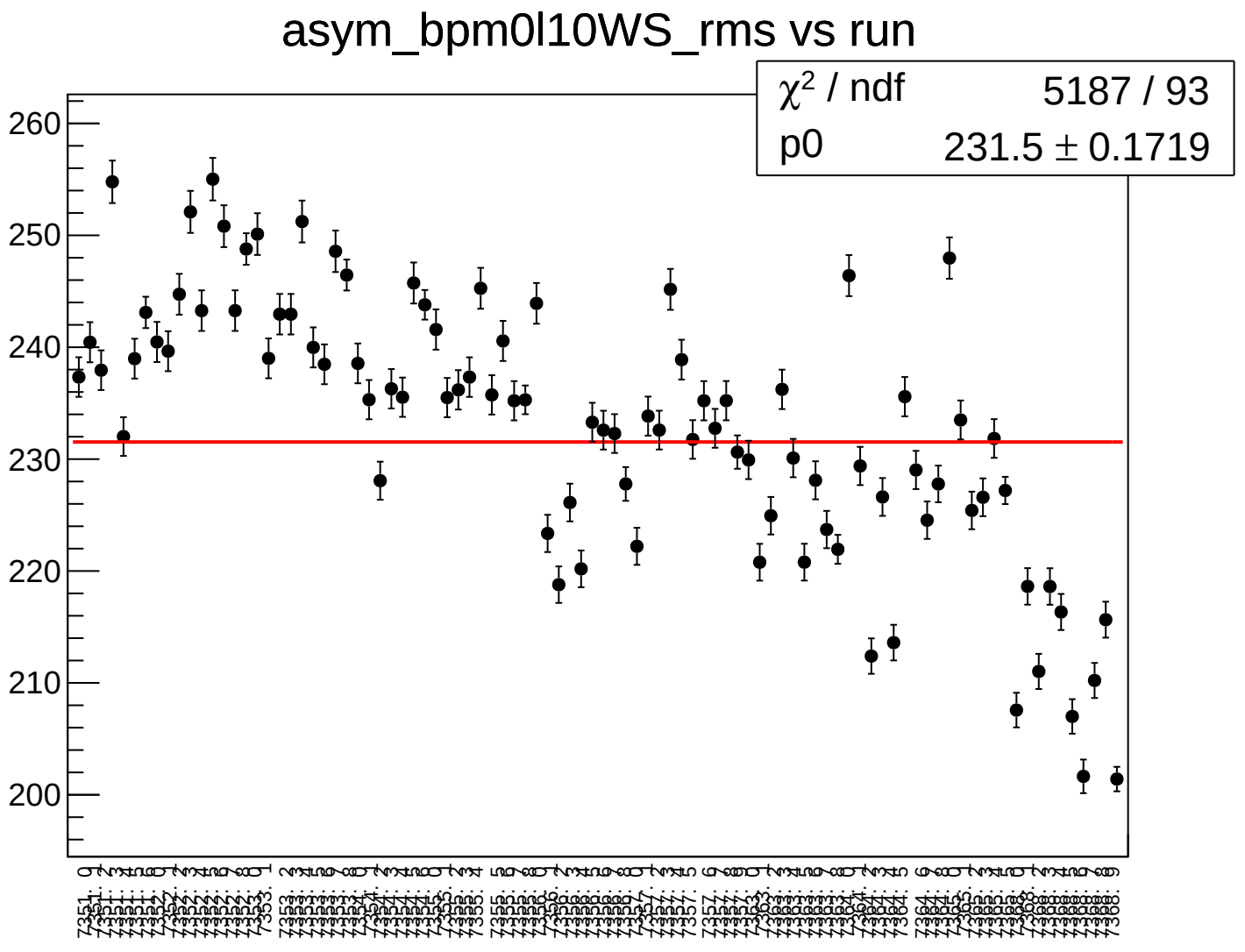

asym_bpm0l08WS_rms vs run
χ² / ndf 6101 / 93
p0 218.8 ± 0.1625
240
230
220
210
200
190

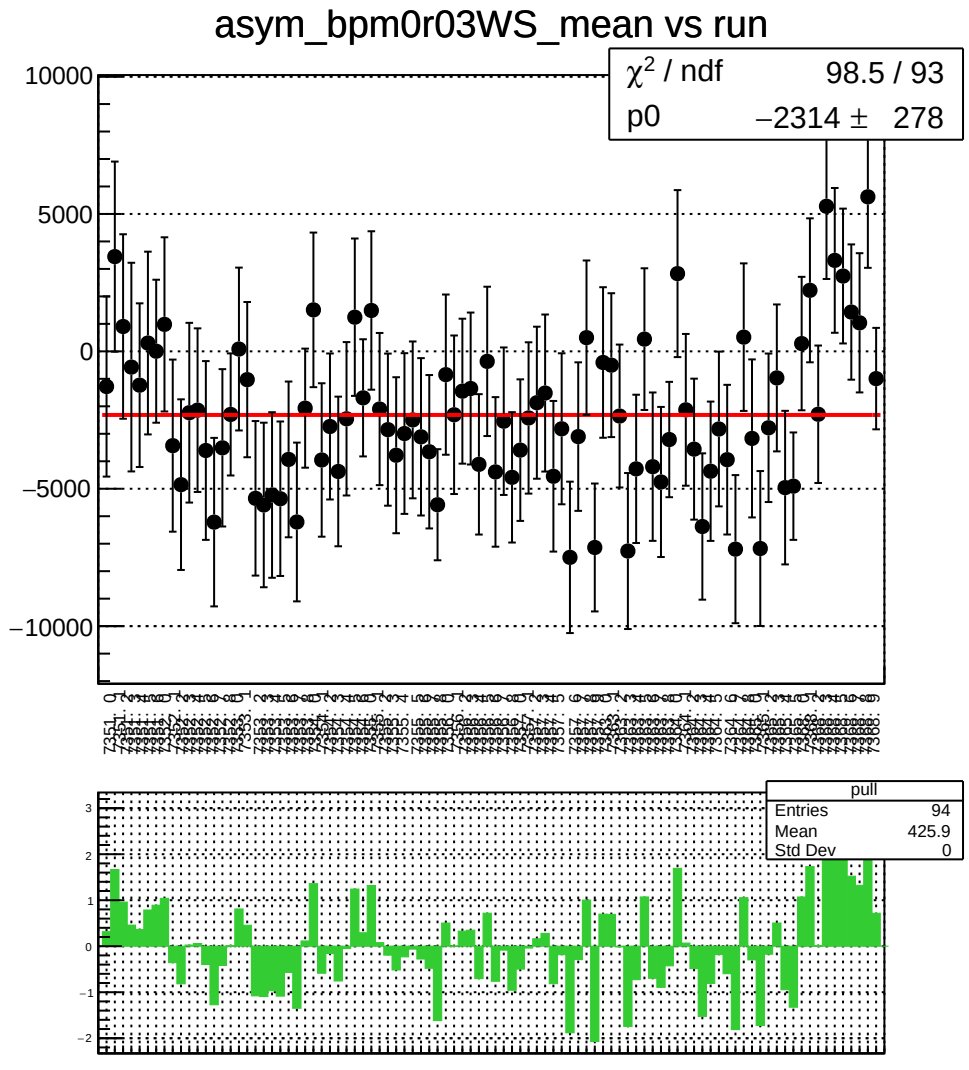

asym_bpm0l09WS_mean vs run
χ² / ndf 88.29 / 93
p0 −2182 ± 236.3
pull
Entries 94
Mean −406.3
Std Dev 0
pull1D
Entries 94
Mean −0.01225
Std Dev 0.9691

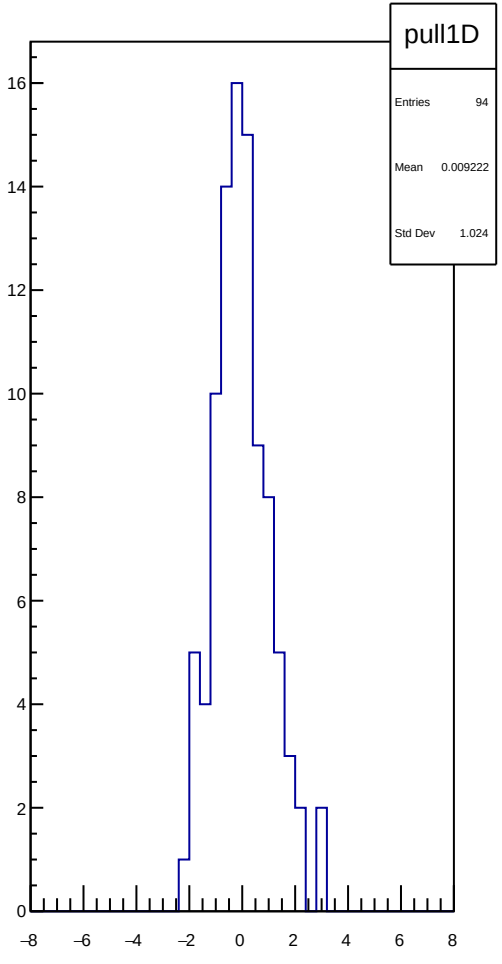

asym_bpm0l09WS_rms vs run
χ² / ndf 5404 / 93
p0 225 ± 0.1671
250
240
230
220
210
200
190

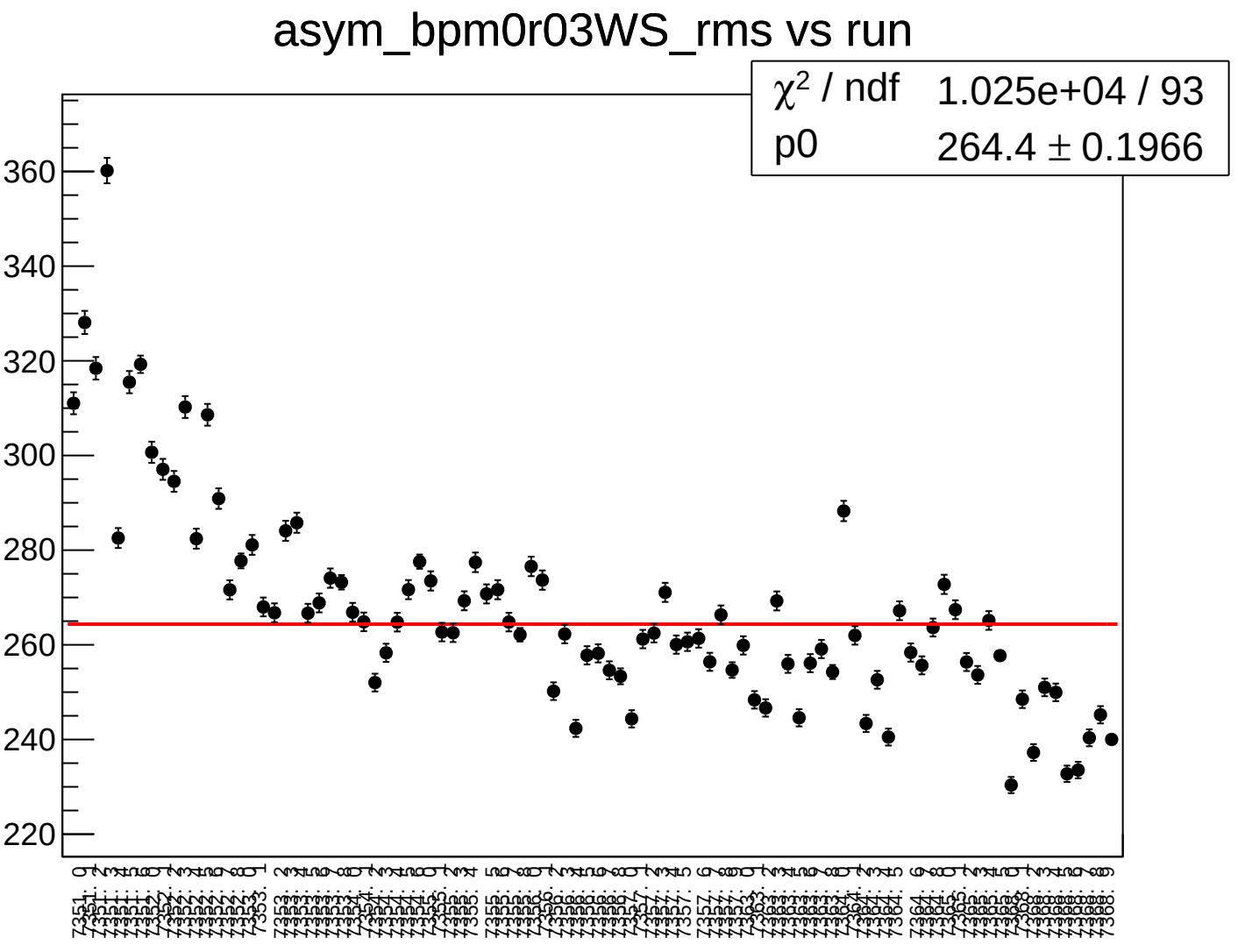

asym_bpm0l10WS_mean vs run
χ² / ndf 85.9 / 93
p0 −2215 ± 243.1
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
pull
Entries 94
Mean −316.7
Std Dev 0
2
1
0
−1
−2

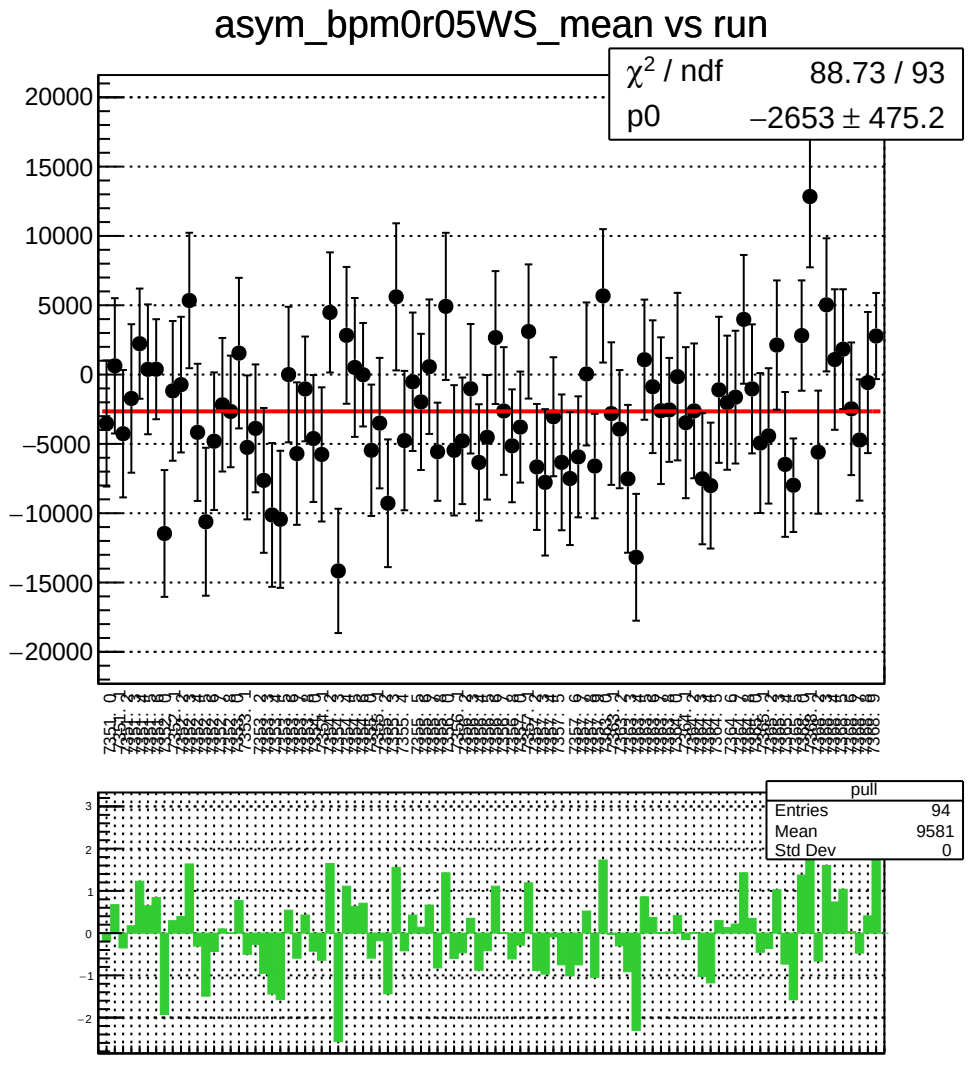

pull1D
Entries 94
Mean −0.01086
Std Dev 0.9559
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

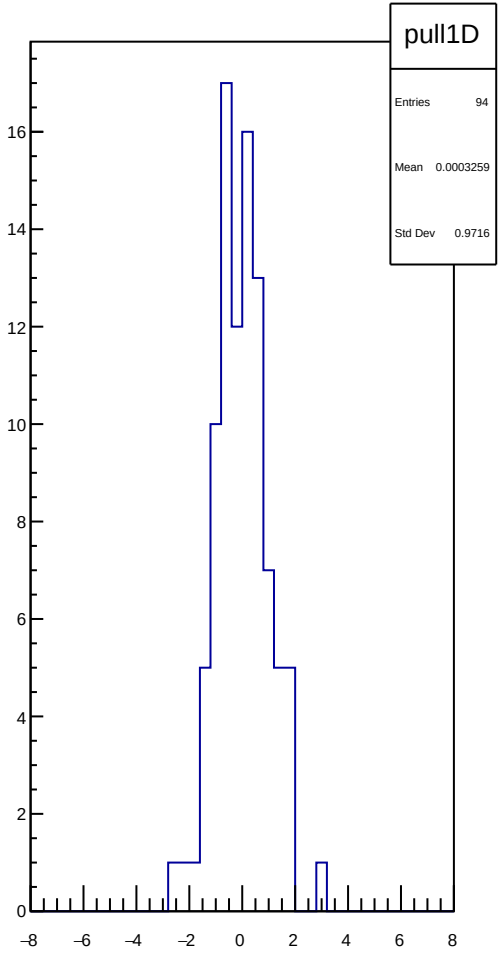

asym_bpm0l10WS_rms vs run
χ² / ndf 5187 / 93
p0 231.5 ± 0.1719
260
250
240
230
220
210
200

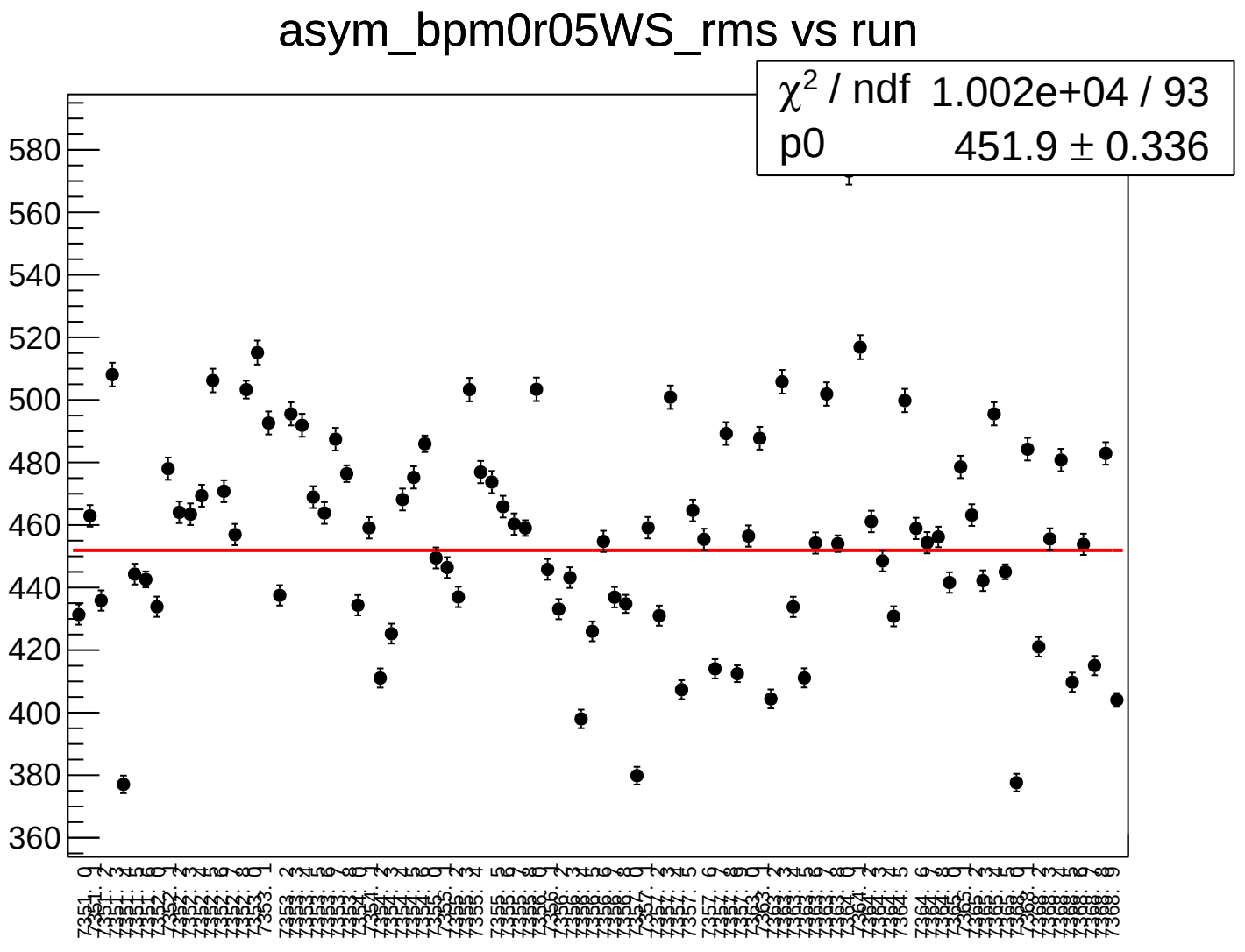

asym_bpm0r03WS_mean vs run
χ² / ndf 98.5 / 93
p0 −2314 ± 278
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 425.9
Std Dev 0
3
2
1
0
−1
−2

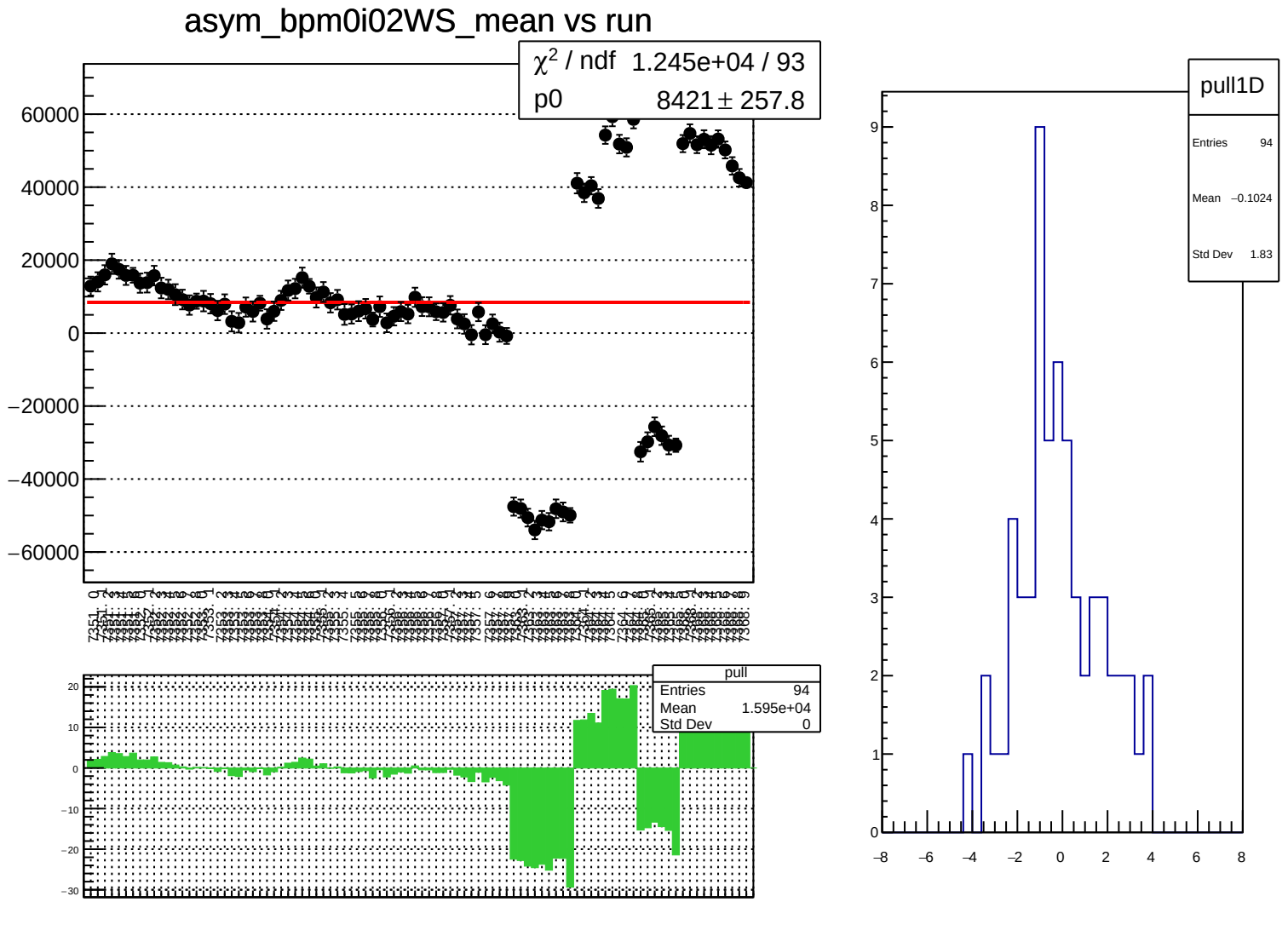

pull1D
Entries 94
Mean 0.009222
Std Dev 1.024
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

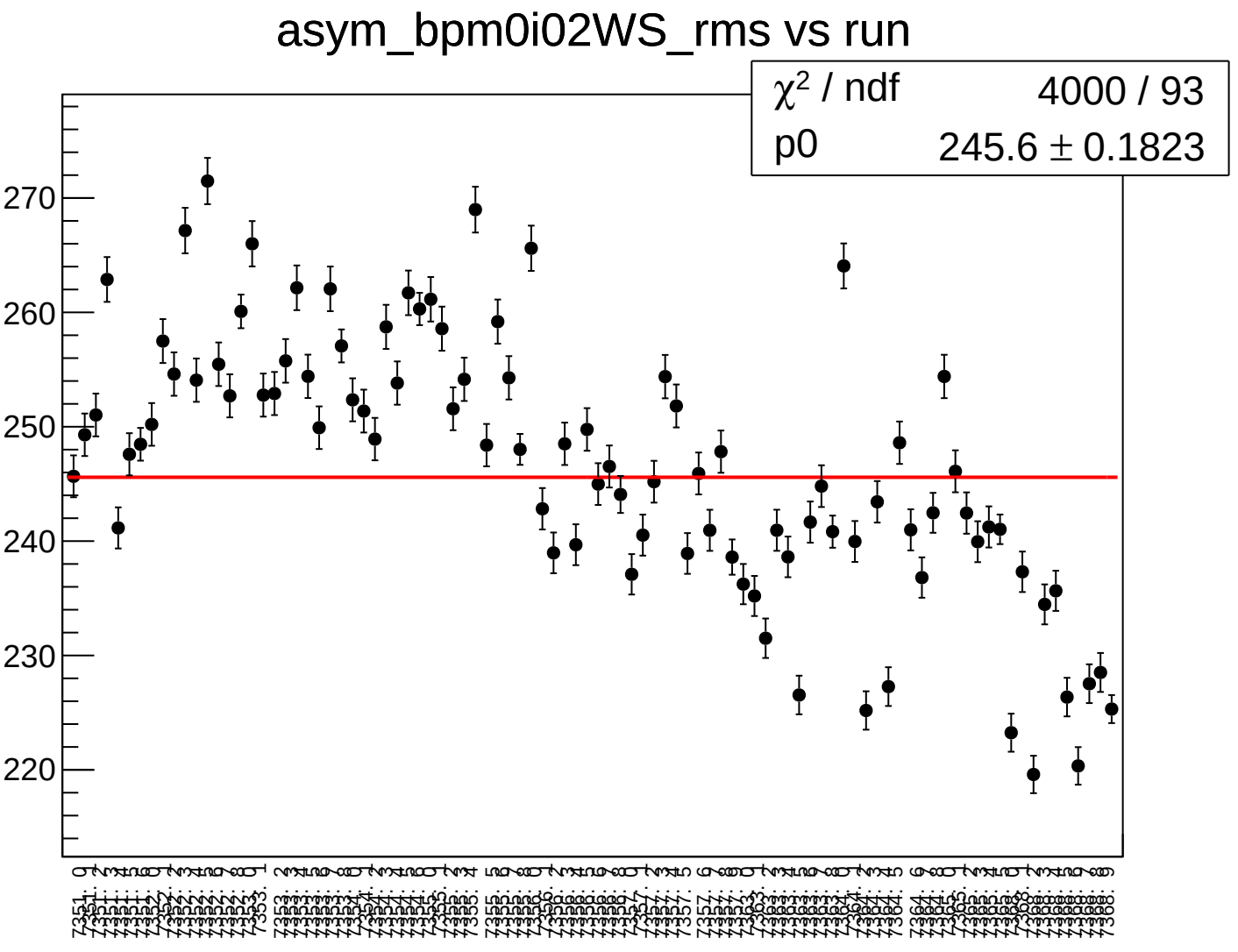

asym_bpm0r03WS_rms vs run
χ² / ndf 1.025e+04 / 93
p0 264.4 ± 0.1966
360
340
320
300
280
260
240
220

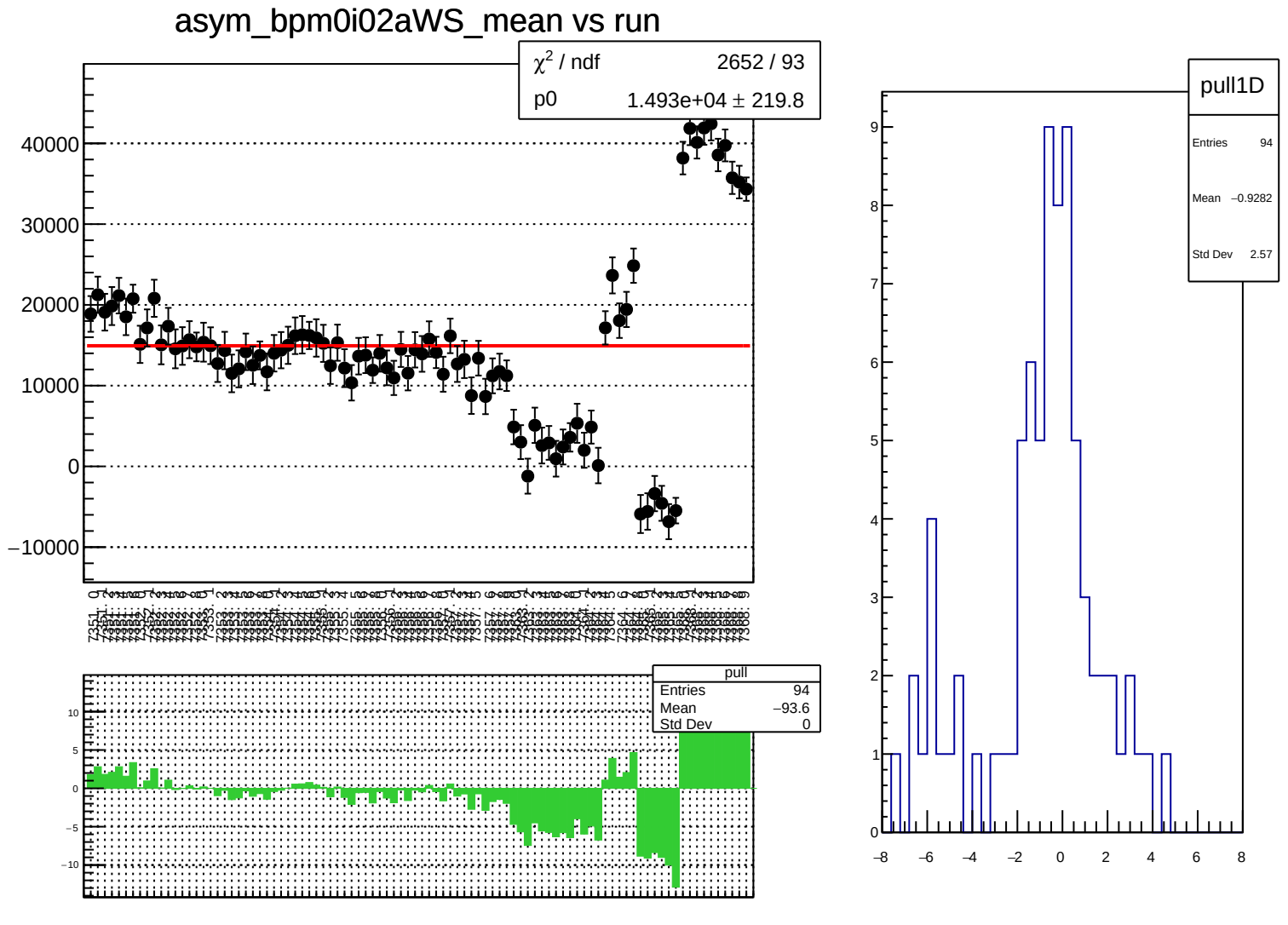

asym_bpm0r05WS_mean vs run
χ² / ndf 88.73 / 93
p0 −2653 ± 475.2
pull
Entries 94
Mean 9581
Std Dev 0

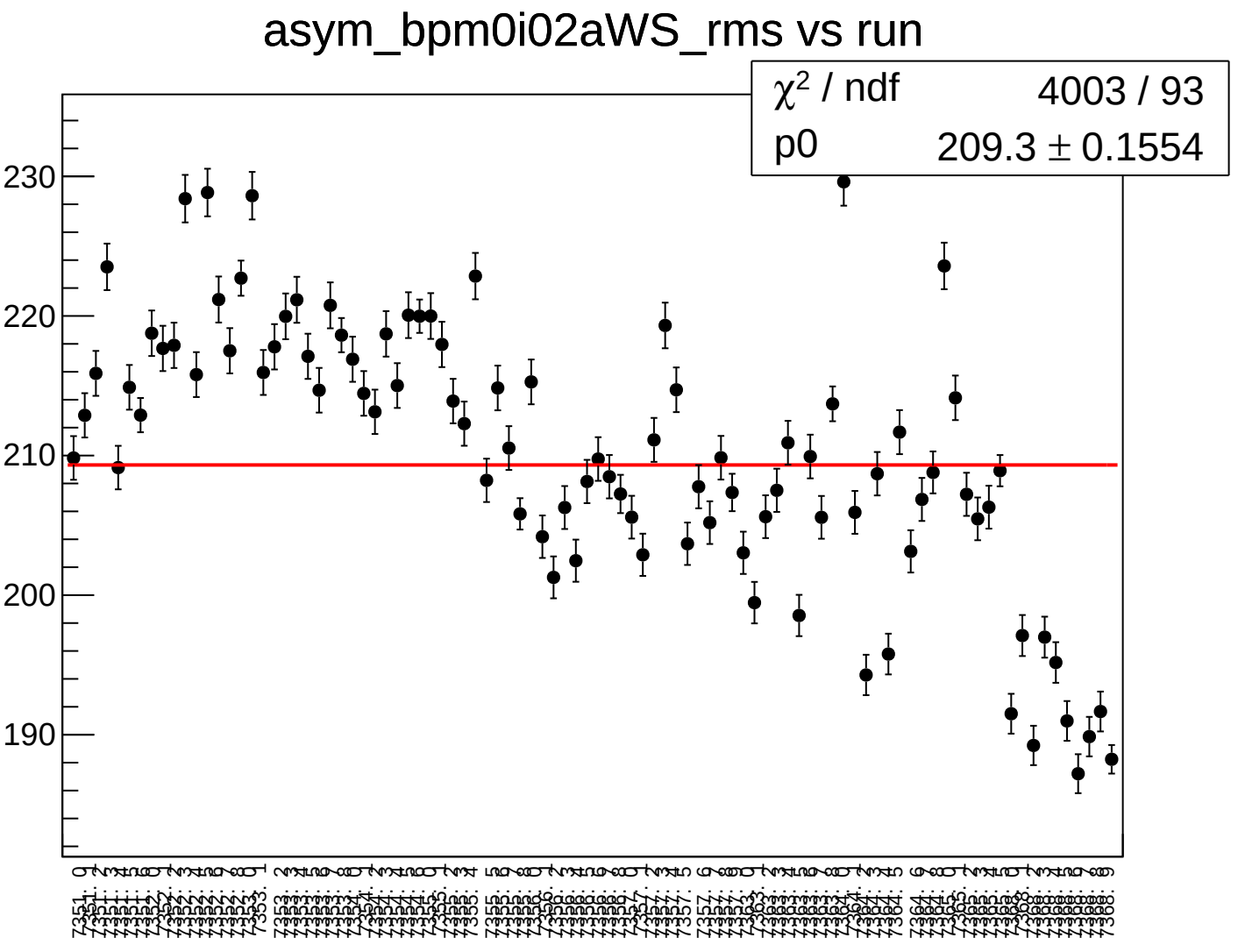

pull1D
Entries 94
Mean 0.0003259
Std Dev 0.9716

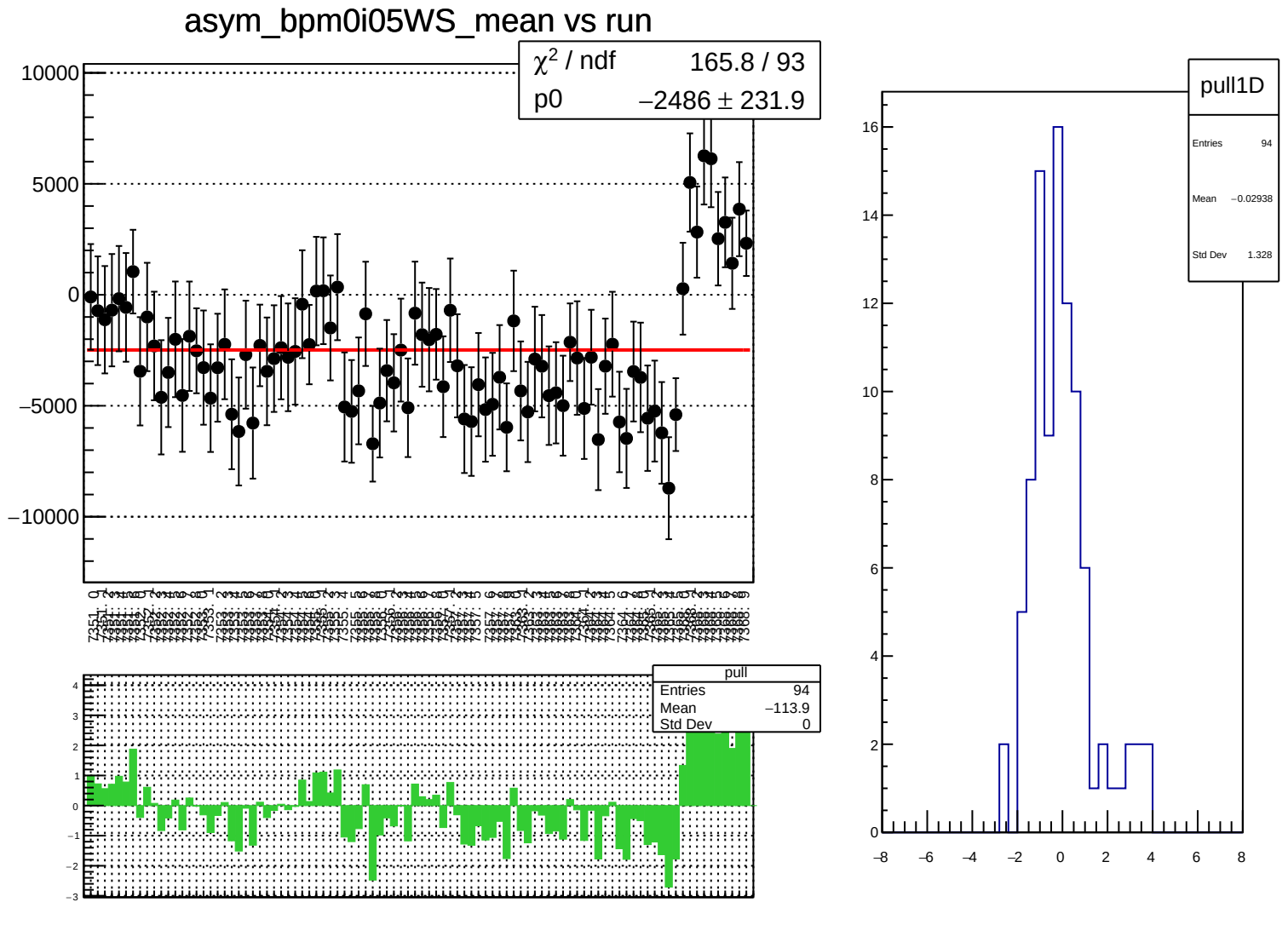

asym_bpm0r05WS_rms vs run
χ² / ndf 1.002e+04 / 93
p0 451.9 ± 0.336
580
560
540
520
500
480
460
440
420
400
380
360

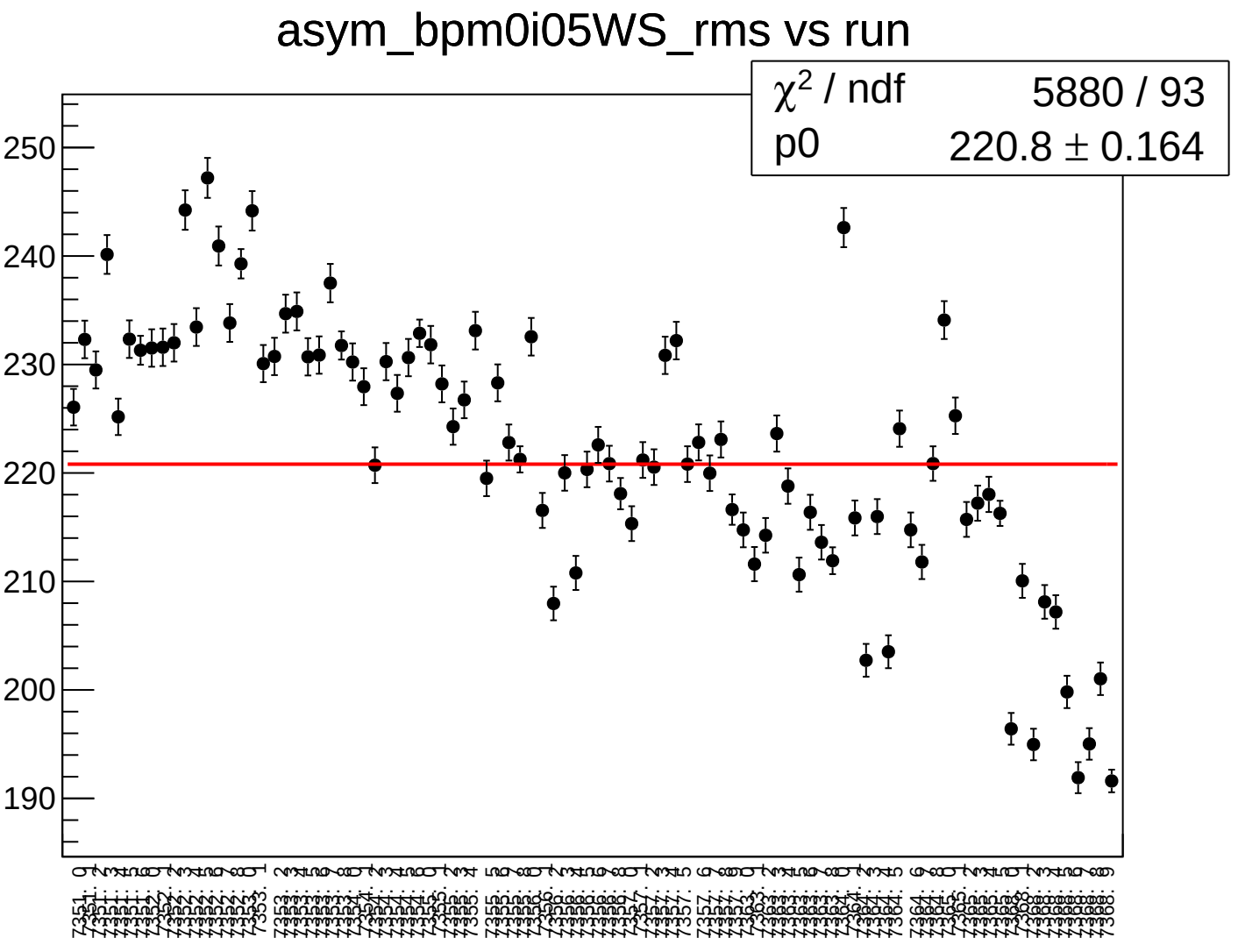

asym_bpm0i02WS_mean vs run
χ² / ndf 1.245e+04 / 93
p0 8421 ± 257.8
pull
Entries 94
Mean 1.595e+04
Std Dev 0
pull1D
Entries 94
Mean −0.1024
Std Dev 1.83

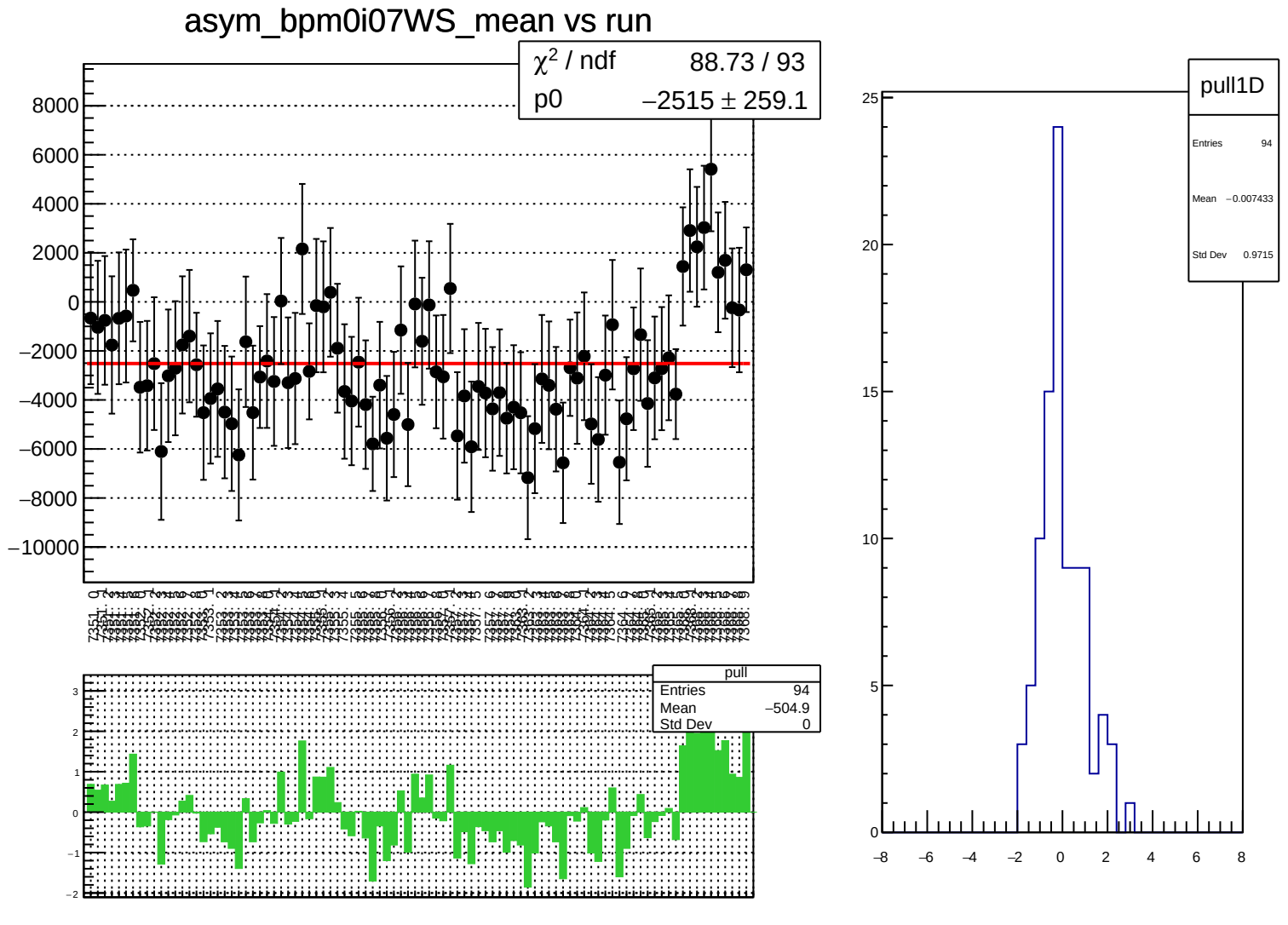

asym_bpm0i02WS_rms vs run
χ² / ndf 4000 / 93
p0 245.6 ± 0.1823
270
260
250
240
230
220

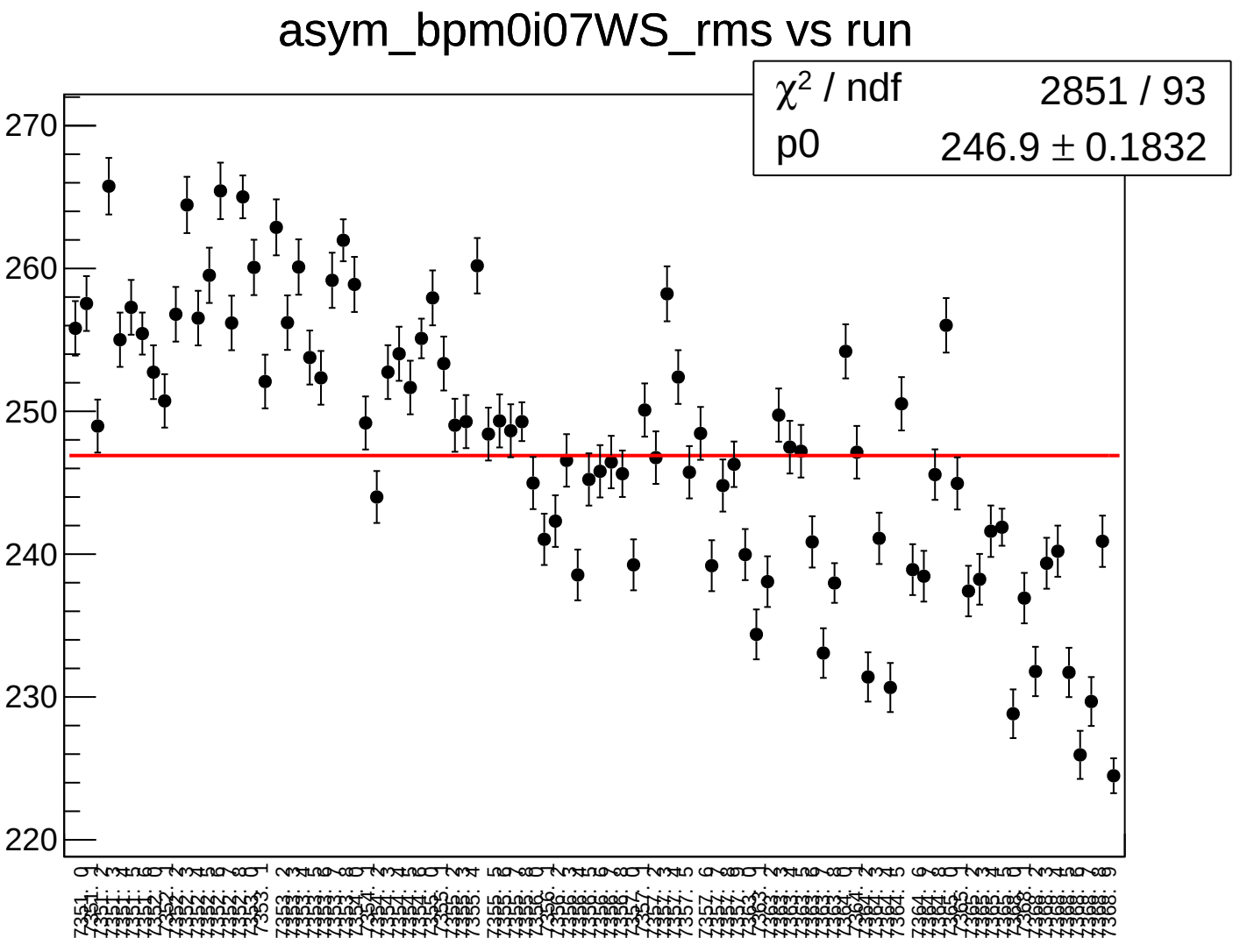

asym_bpm0i02aWS_mean vs run
χ² / ndf 2652 / 93
p0 1.493e+04 ± 219.8
40000
30000
20000
10000
0
−10000
pull
Entries 94
Mean −93.6
Std Dev 0
10
5
0
−5
−10
pull1D
Entries 94
Mean −0.9282
Std Dev 2.57
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

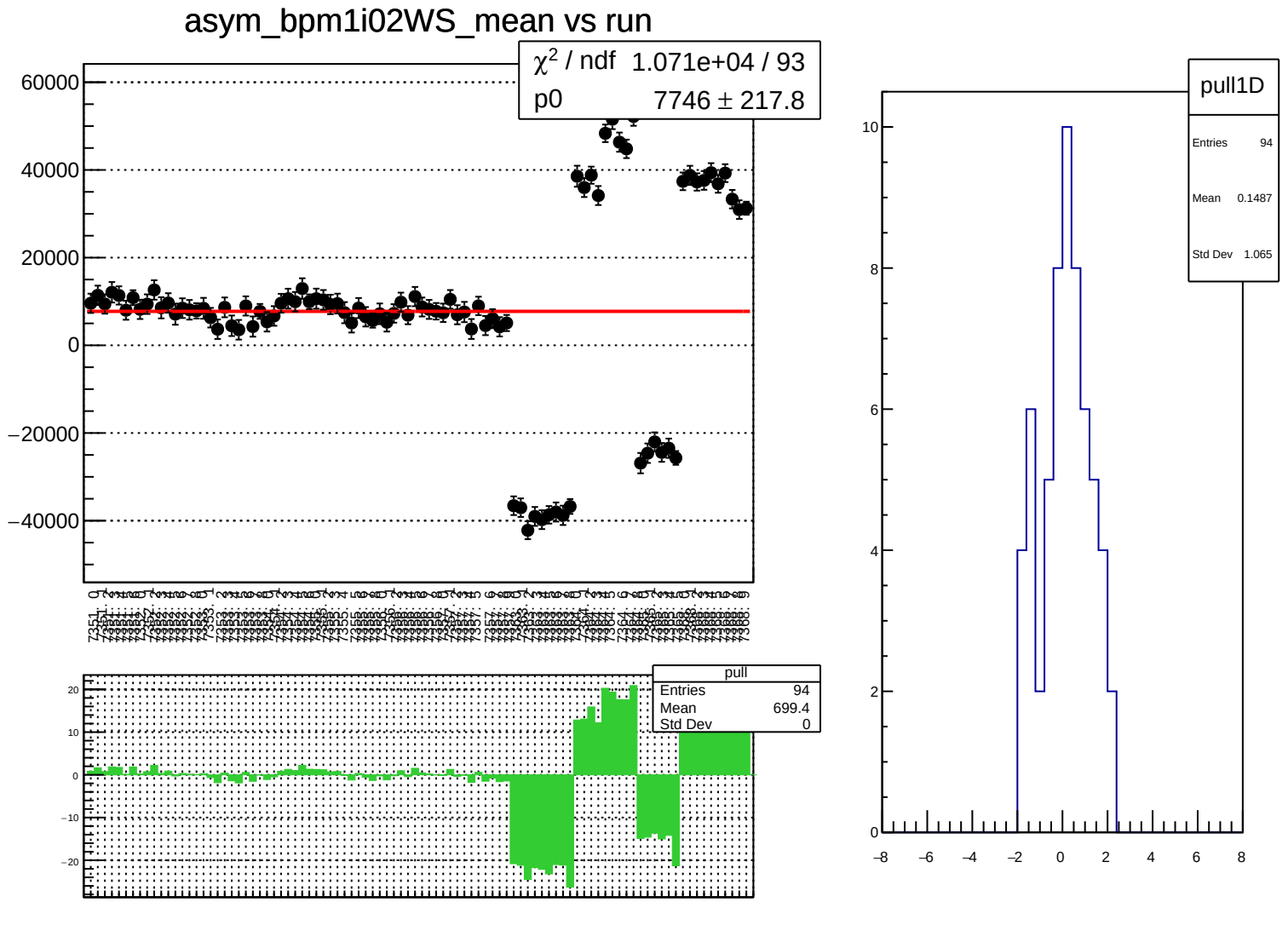

asym_bpm0i02aWS_rms vs run
χ² / ndf 4003 / 93
p0 209.3 ± 0.1554
230
220
210
200
190

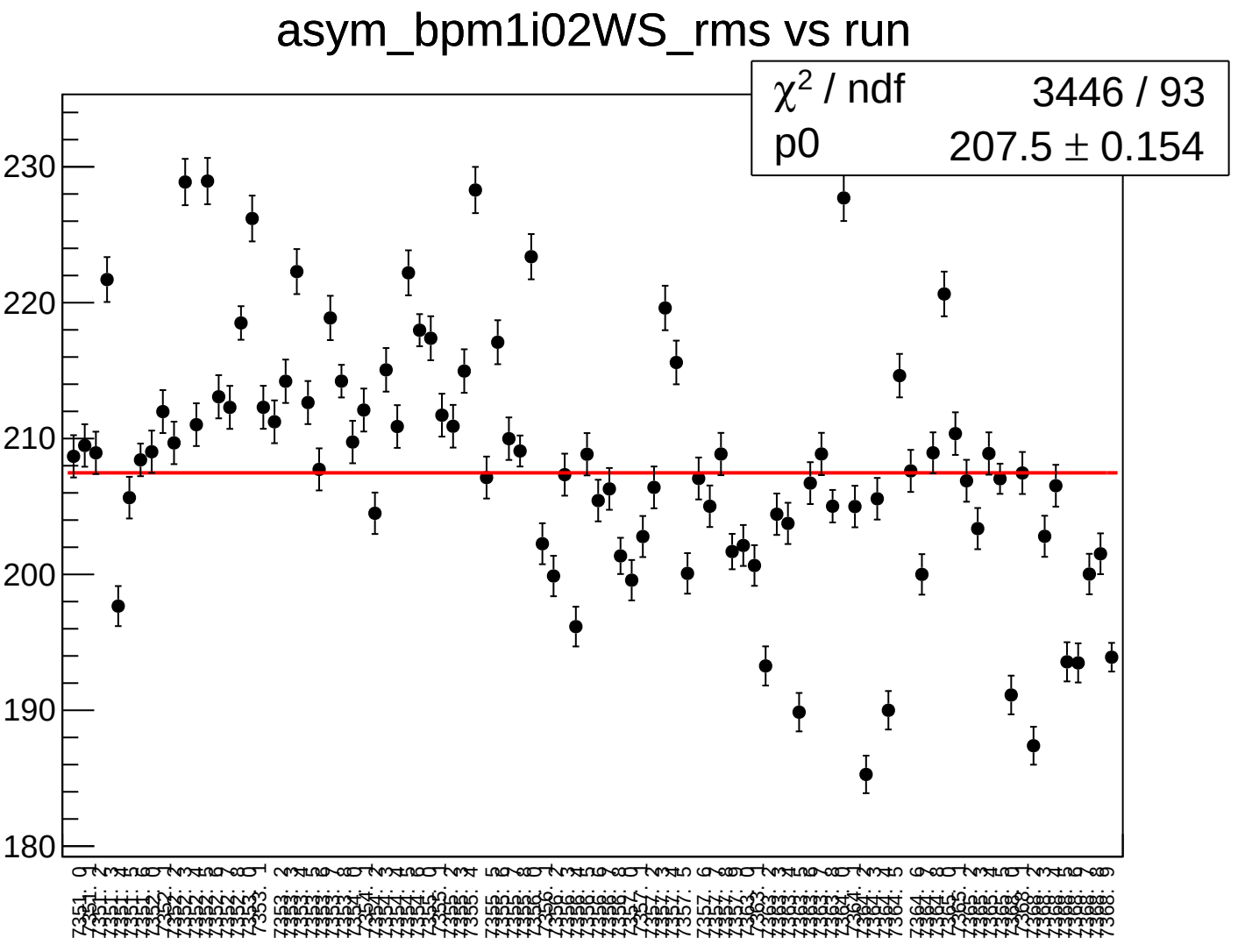

asym_bpm0i05WS_mean vs run
χ² / ndf 165.8 / 93
p0 −2486 ± 231.9
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −113.9
Std Dev 0
pull1D
Entries 94
Mean −0.02938
Std Dev 1.328

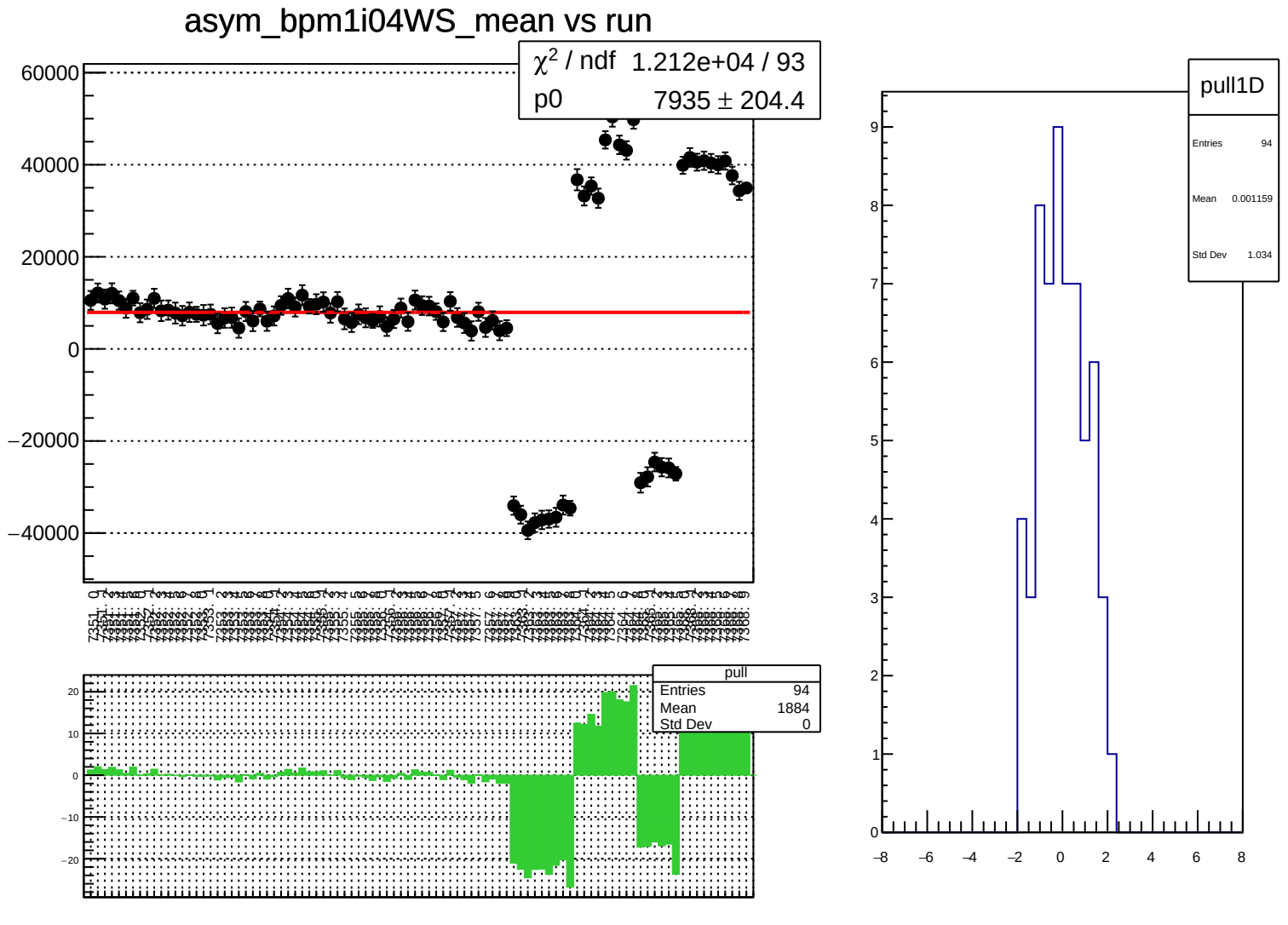

asym_bpm0i05WS_rms vs run
χ^2 / ndf 5880 / 93
p0 220.8 ± 0.164
250
240
230
220
210
200
190

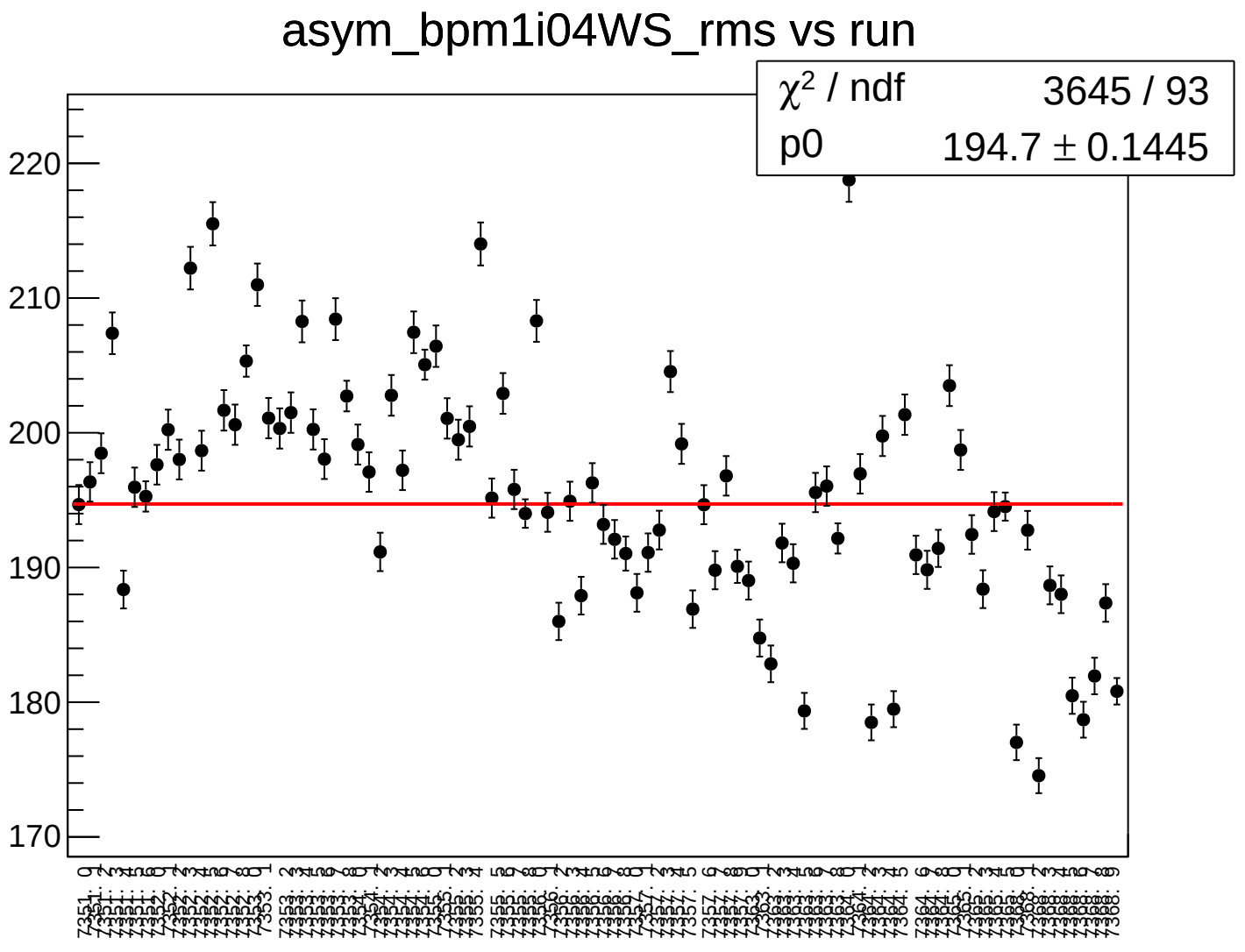

asym_bpm0i07WS_mean vs run
χ² / ndf 88.73 / 93
p0 −2515 ± 259.1
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
pull
Entries 94
Mean −504.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.007433
Std Dev 0.9715
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

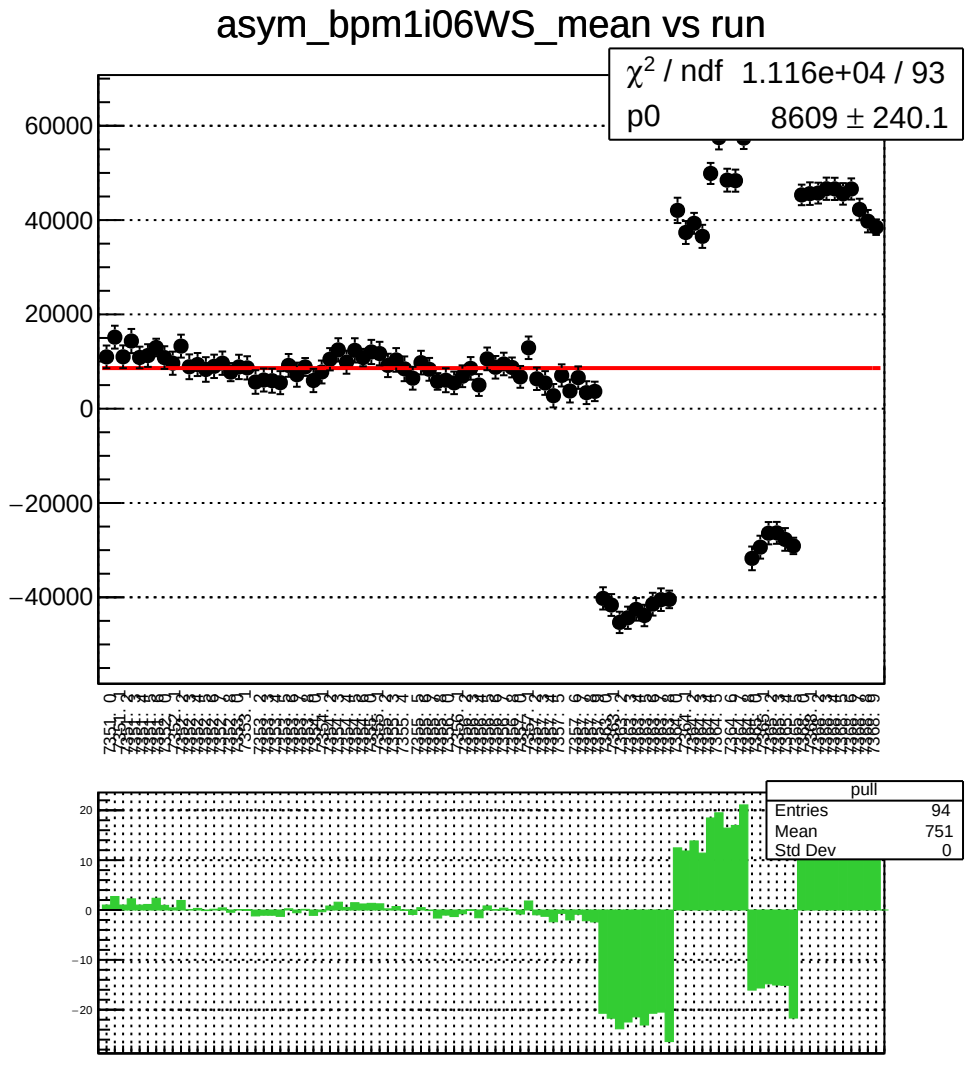

asym_bpm0i07WS_rms vs run
χ² / ndf 2851 / 93
p0 246.9 ± 0.1832
270
260
250
240
230
220

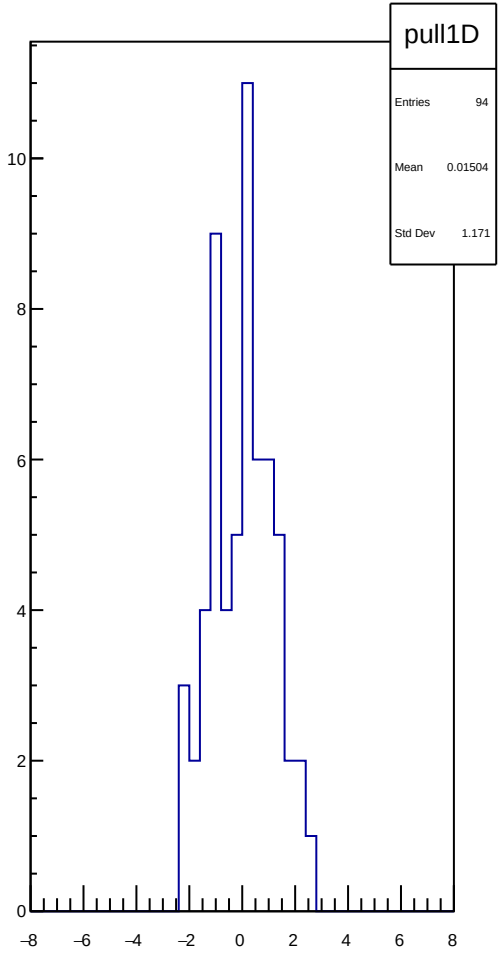

asym_bpm1i02WS_mean vs run
χ² / ndf 1.071e+04 / 93
p0 7746 ± 217.8
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 699.4
Std Dev 0
20
10
0
−10
−20
pull1D
Entries 94
Mean 0.1487
Std Dev 1.065
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

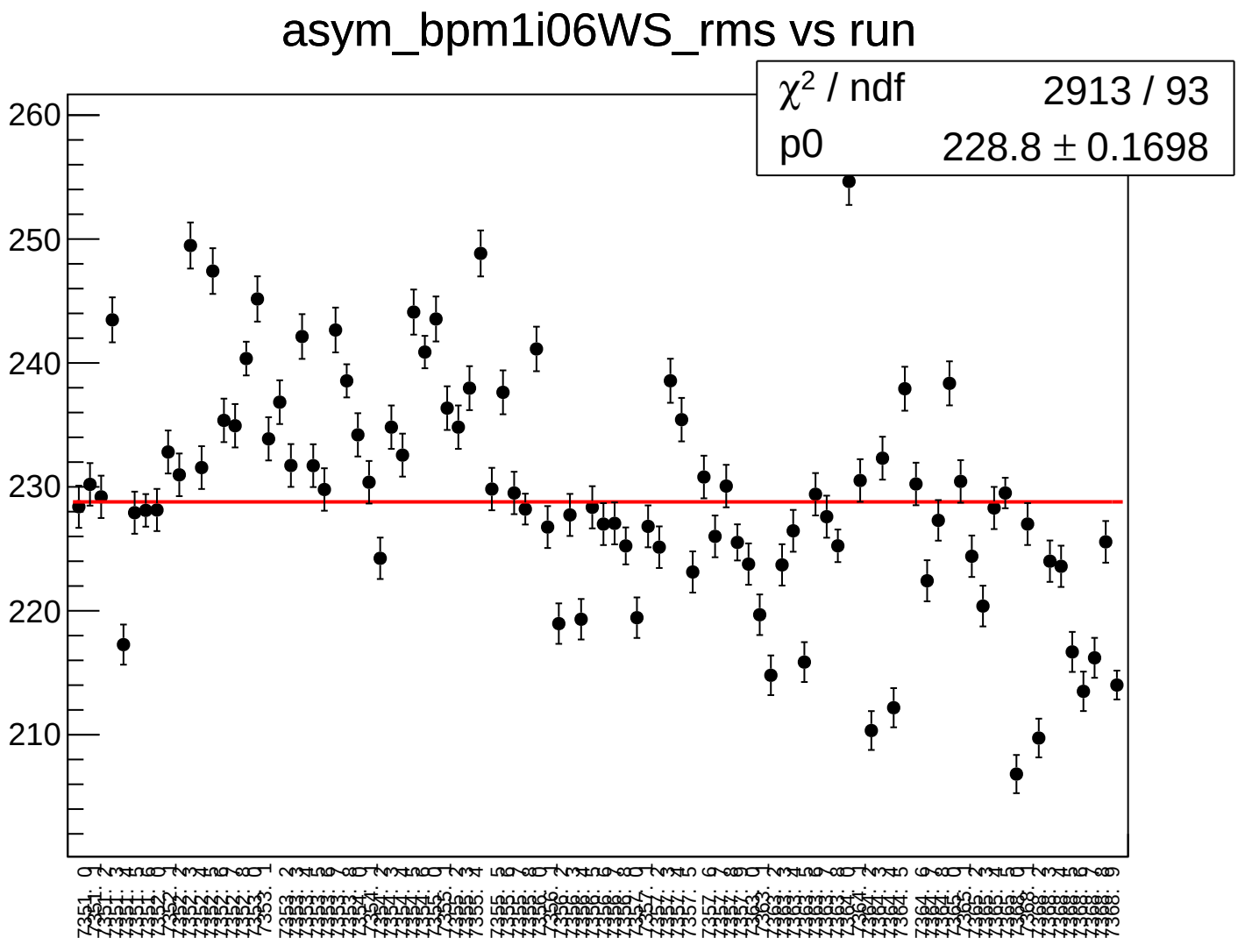

asym_bpm1i02WS_rms vs run
χ² / ndf 3446 / 93
p0 207.5 ± 0.154
230
220
210
200
190
180

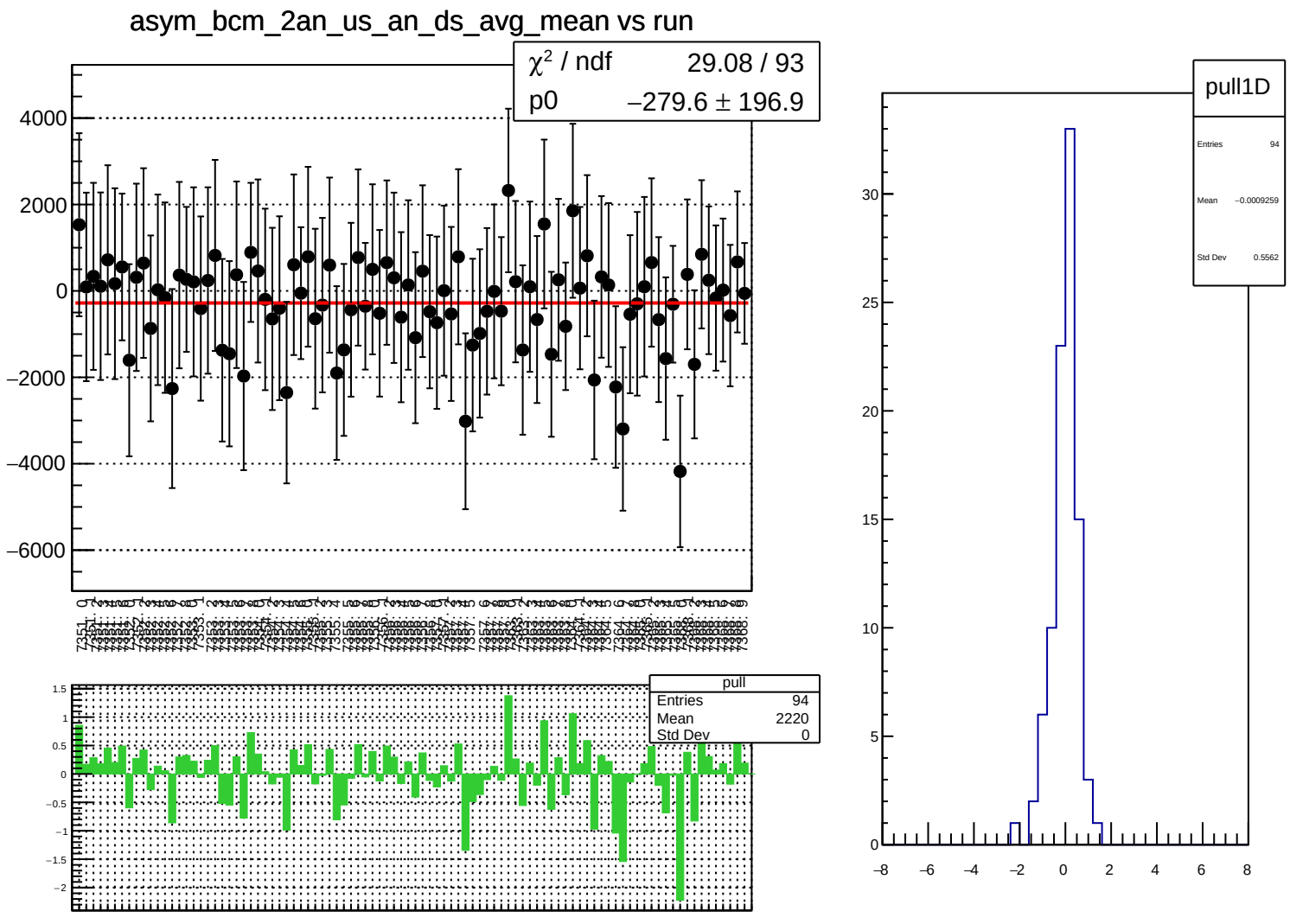

asym_bpm1i04WS_mean vs run
χ² / ndf 1.212e+04 / 93
p0 7935 ± 204.4
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 1884
Std Dev 0
20
10
0
−10
−20
pull1D
Entries 94
Mean 0.001159
Std Dev 1.034
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

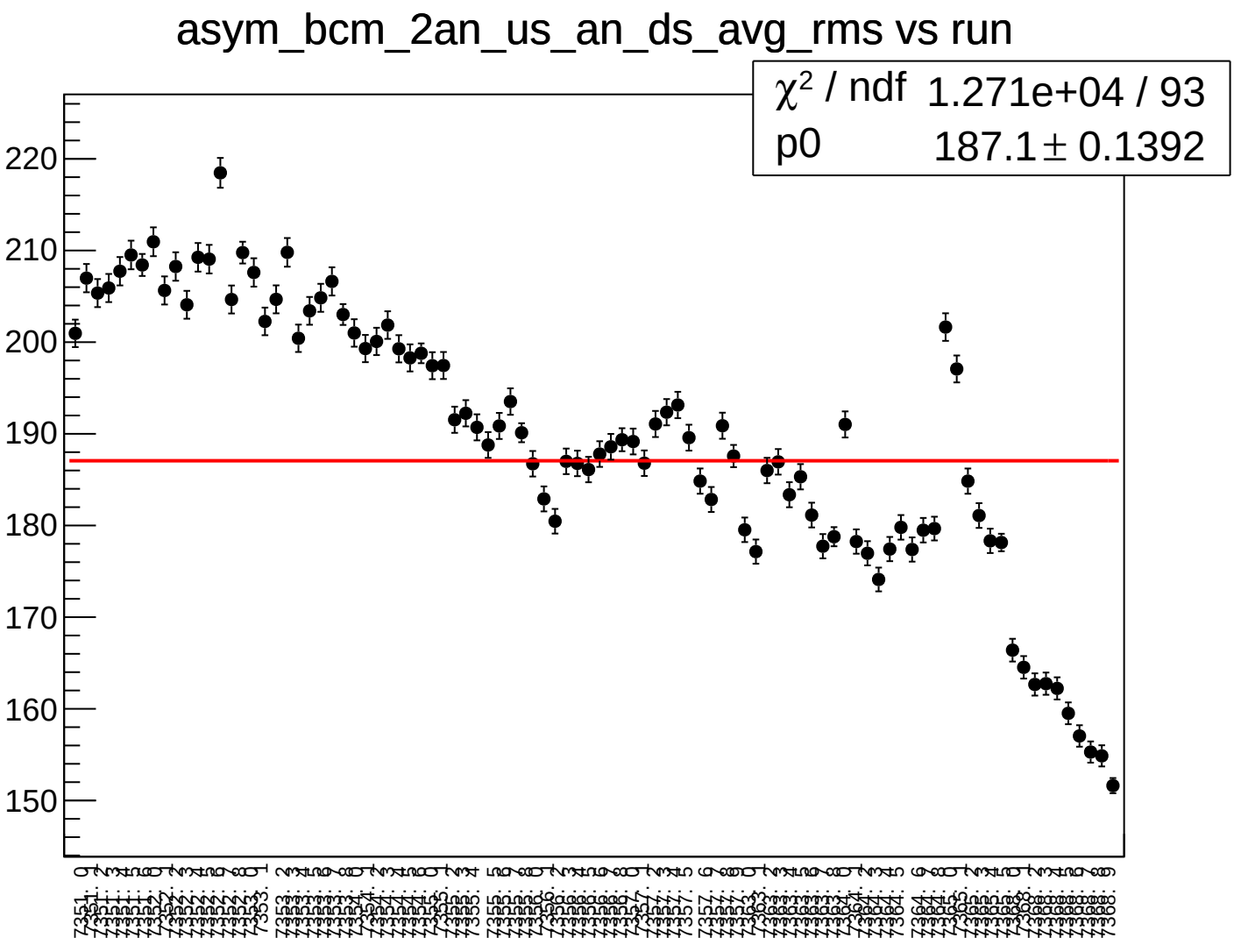

asym_bpm1i04WS_rms vs run
χ² / ndf 3645 / 93
p0 194.7 ± 0.1445
220
210
200
190
180
170

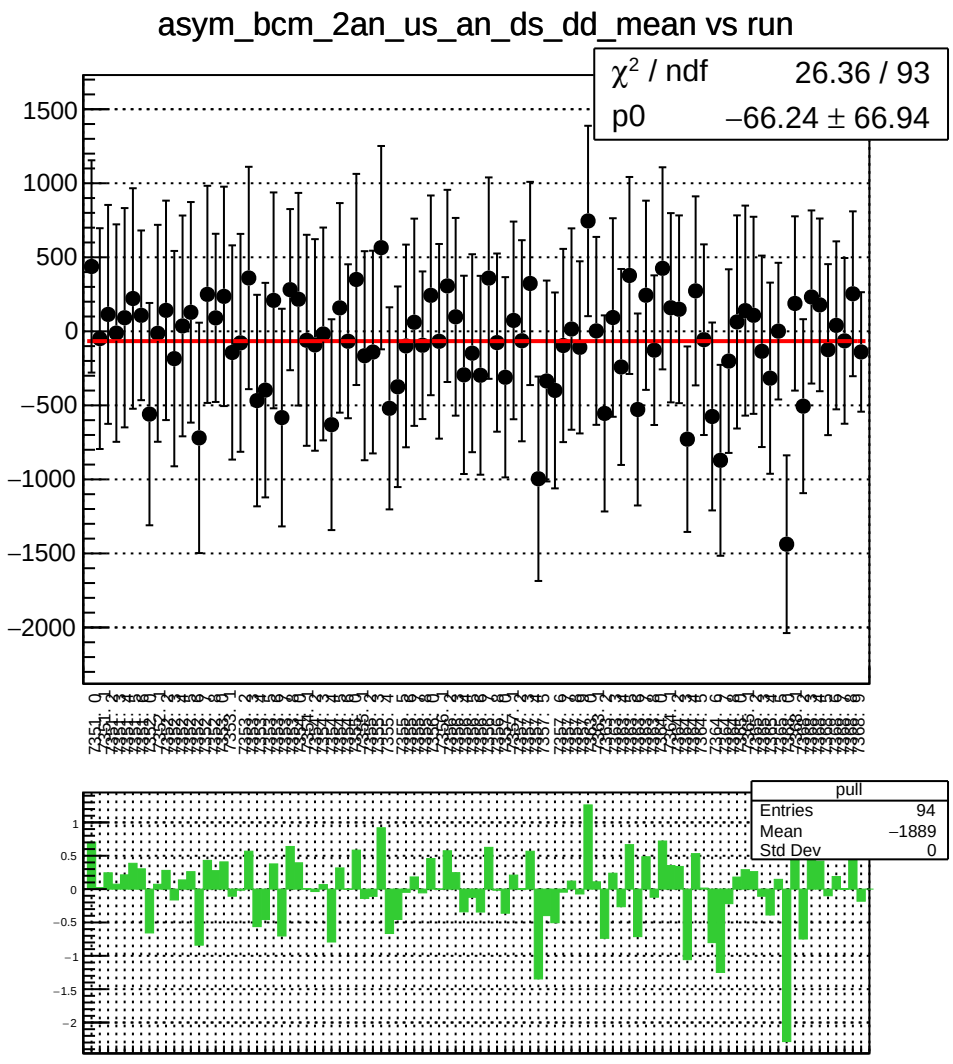

asym_bpm1i06WS_mean vs run
χ² / ndf 1.116e+04 / 93
p0 8609 ± 240.1
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 751
Std Dev 0
20
10
0
−10
−20

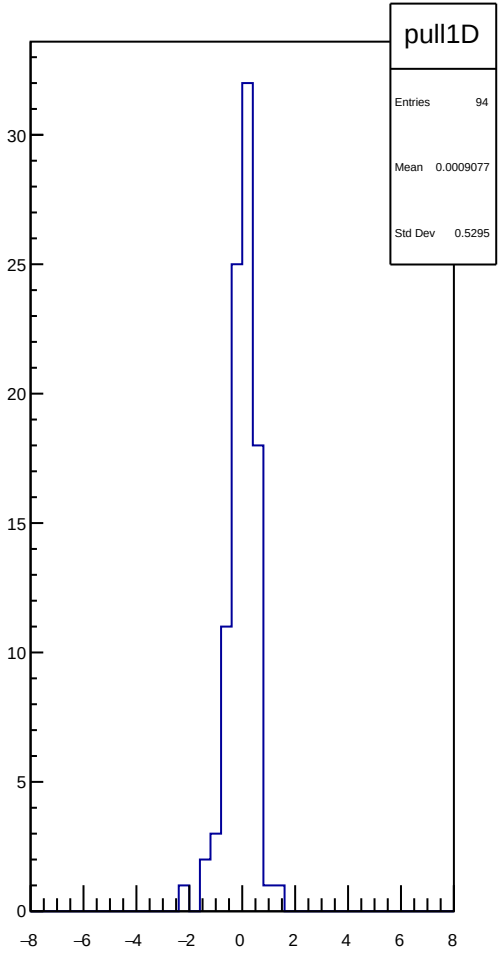

pull1D
Entries 94
Mean 0.01504
Std Dev 1.171
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

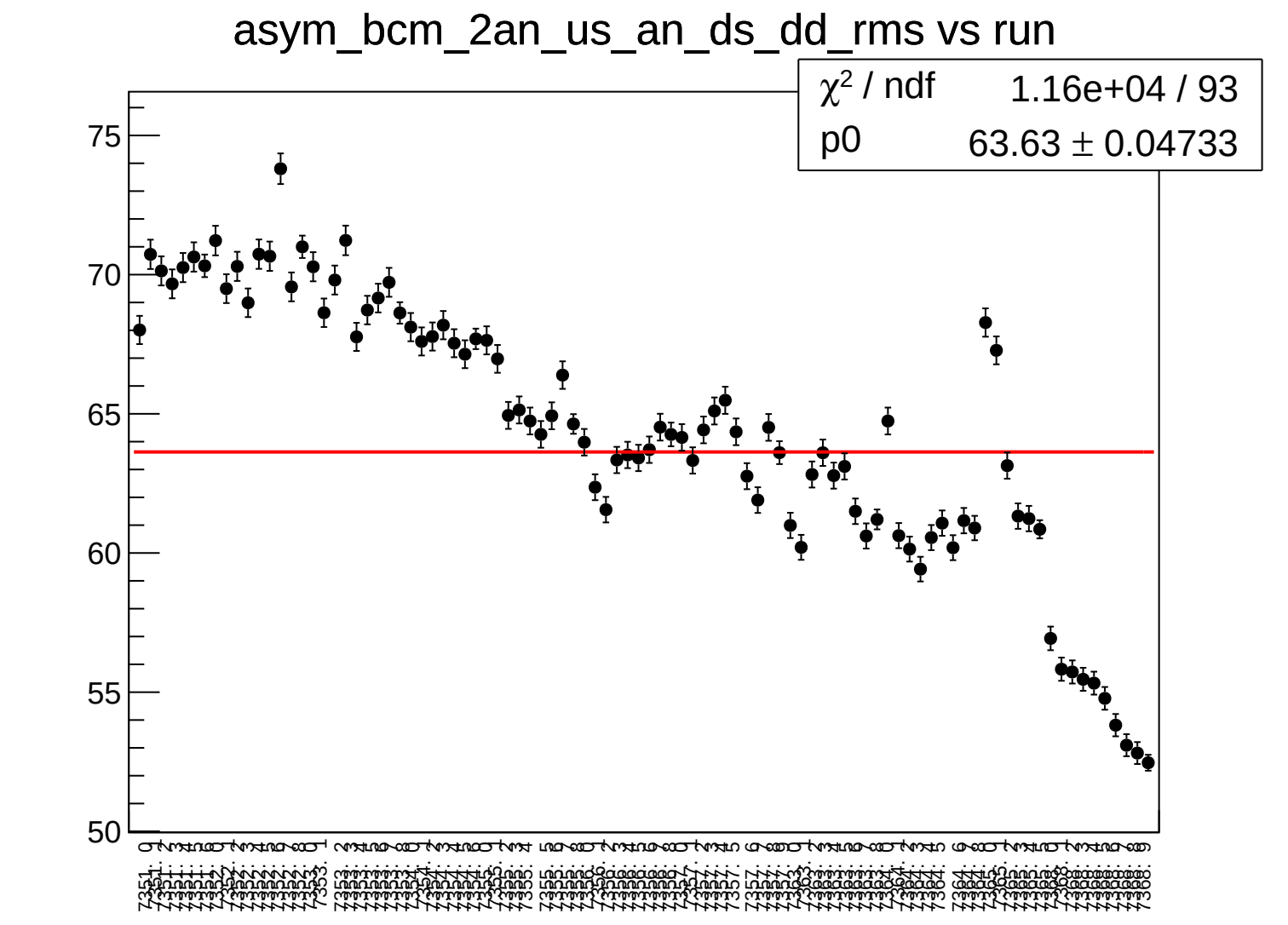

asym_bpm1i06WS_rms vs run
χ² / ndf 2913 / 93
p0 228.8 ± 0.1698
260
250
240
230
220
210

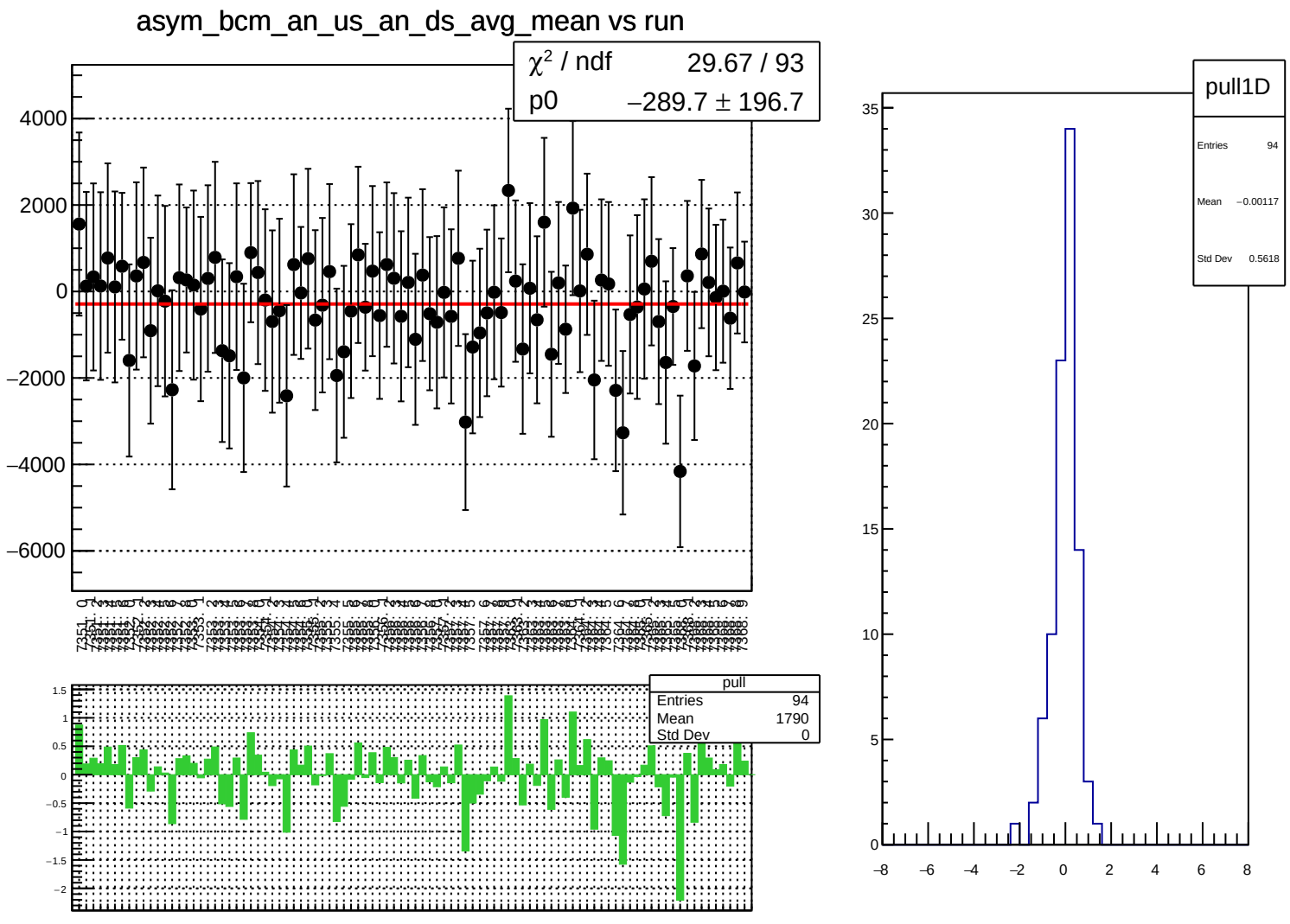

asym_bcm_2an_us_an_ds_avg_mean vs run
χ² / ndf 29.08 / 93
p0 −279.6 ± 196.9
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean 2220
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean −0.0009259
Std Dev 0.5562
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

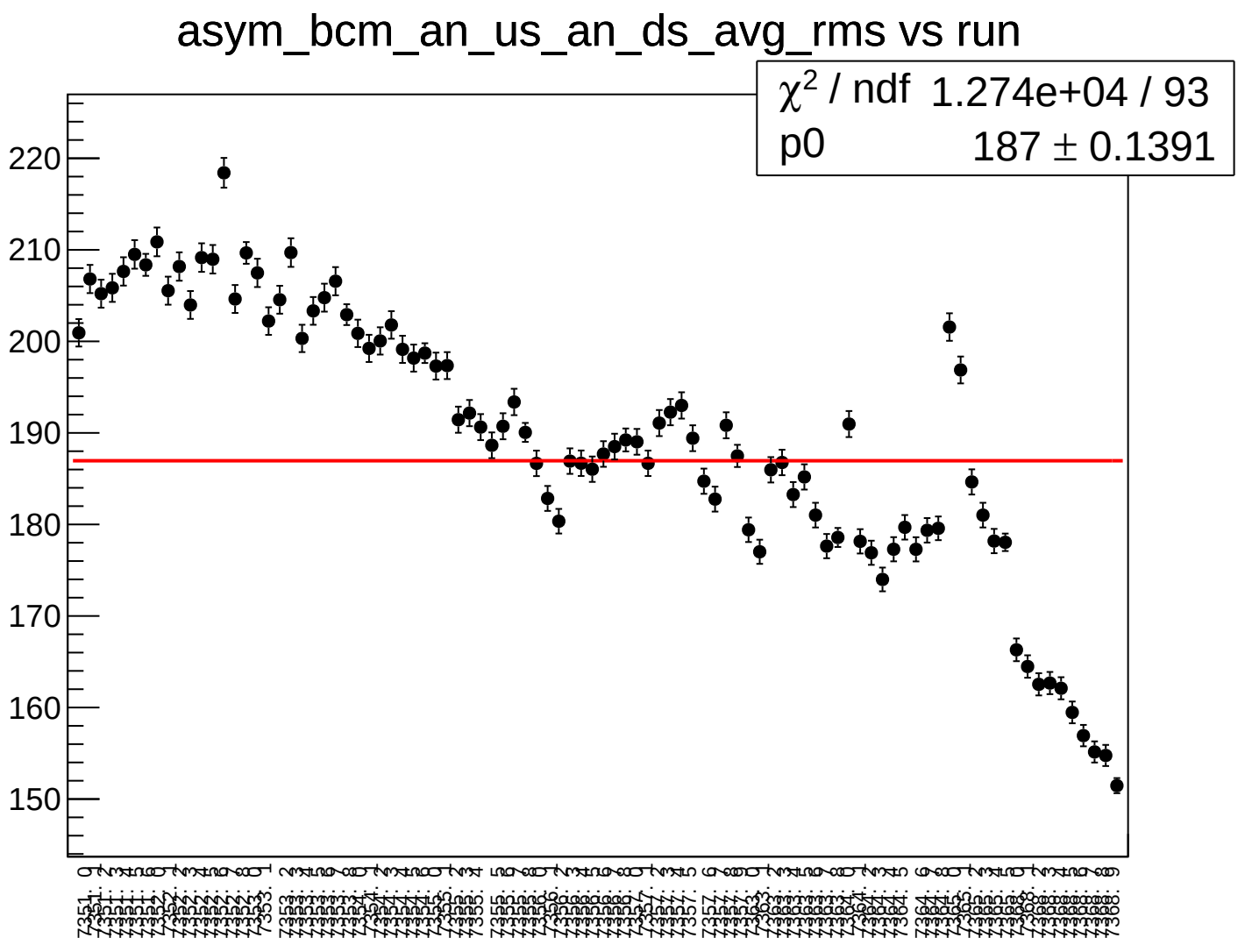

asym_bcm_2an_us_an_ds_avg_rms vs run
χ^2 / ndf 1.271e+04 / 93
p0 187.1 ± 0.1392
220
210
200
190
180
170
160
150

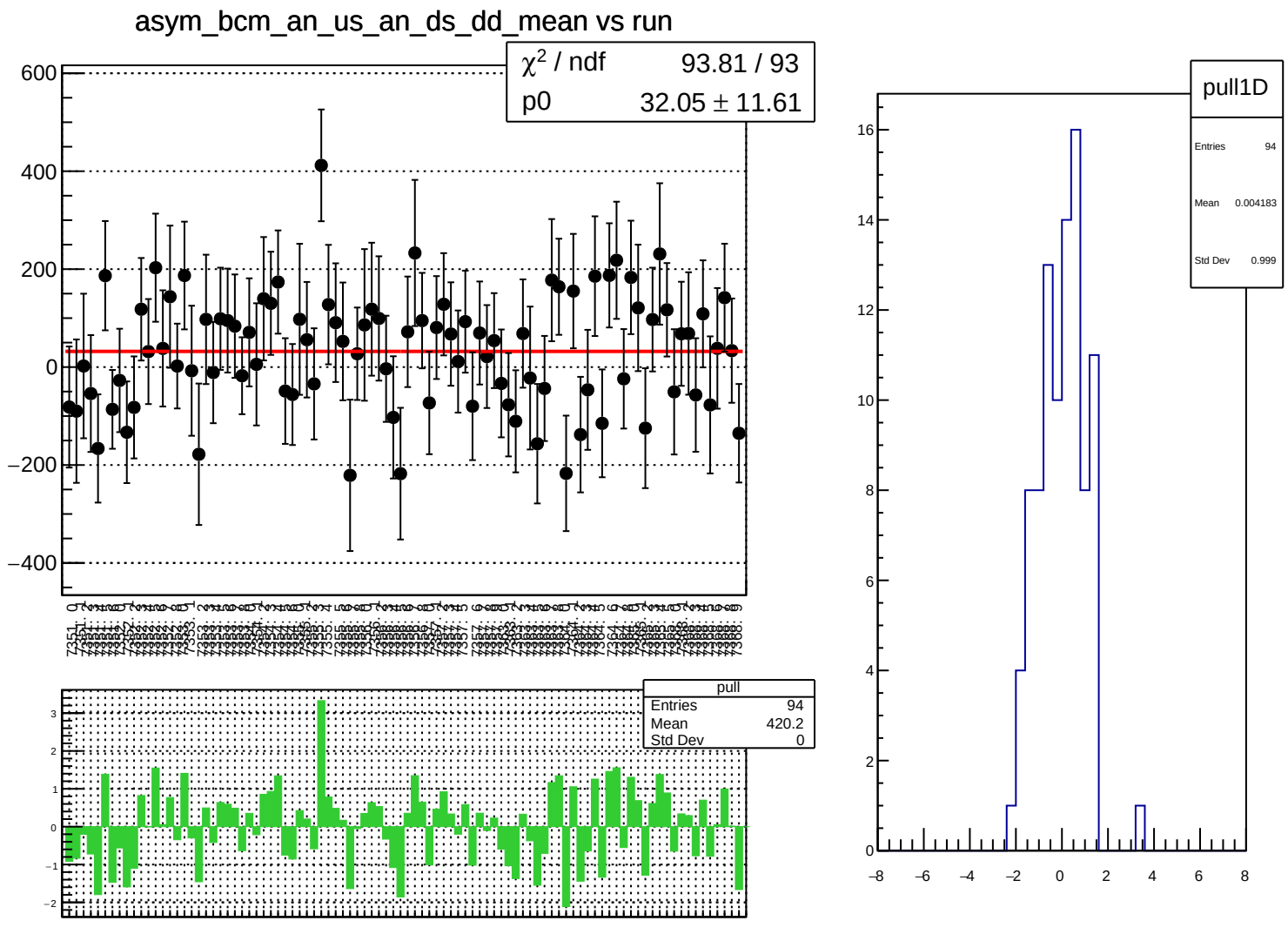

asym_bcm_2an_us_an_ds_dd_mean vs run
χ² / ndf 26.36 / 93
p0 −66.24 ± 66.94
pull
Entries 94
Mean −1889
Std Dev 0


pull1D
Entries 94
Mean 0.0009077
Std Dev 0.5295

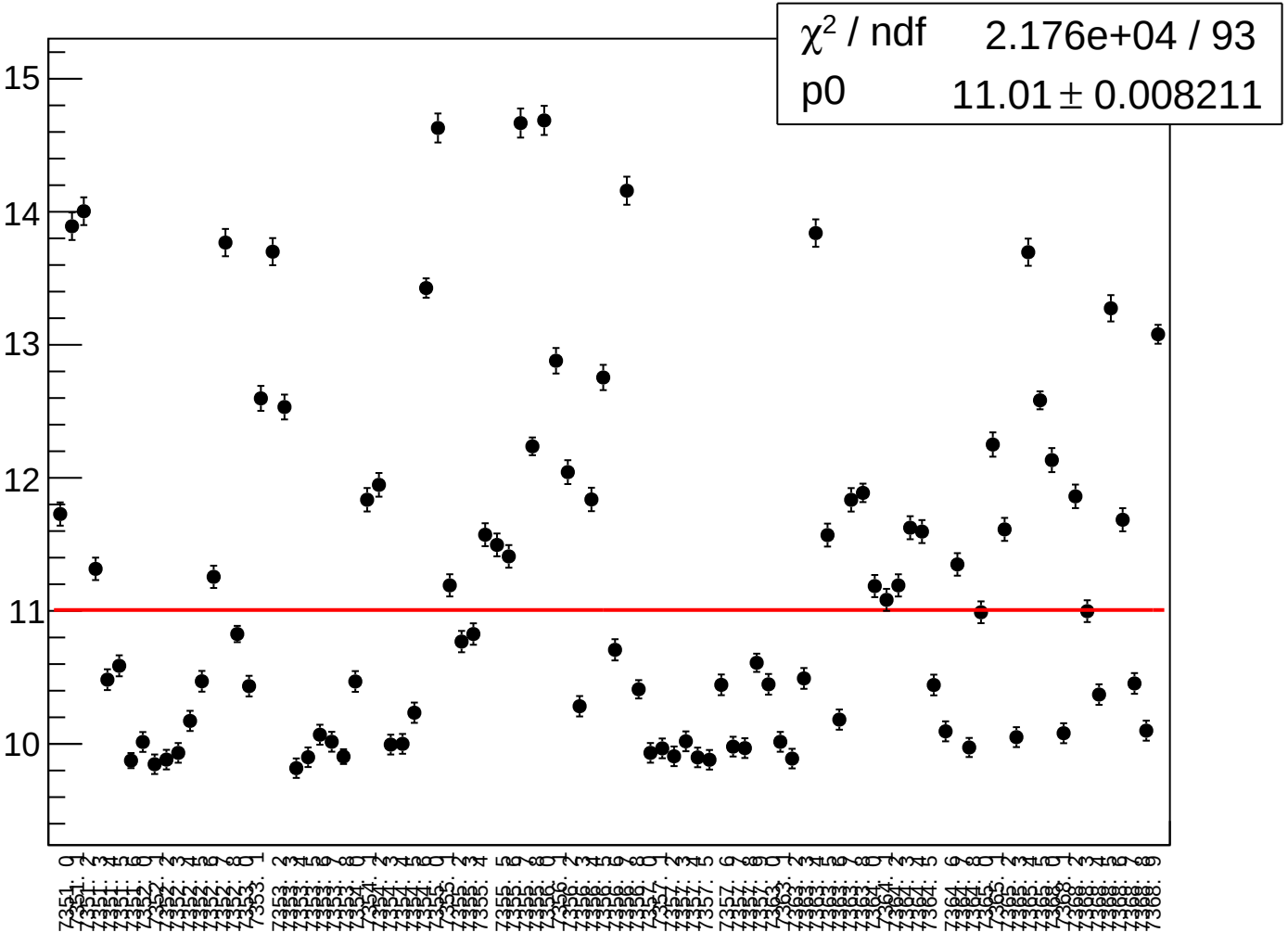

asym_bcm_2an_us_an_ds_dd_rms vs run
χ² / ndf 1.16e+04 / 93
p0 63.63 ± 0.04733
75
70
65
60
55
50

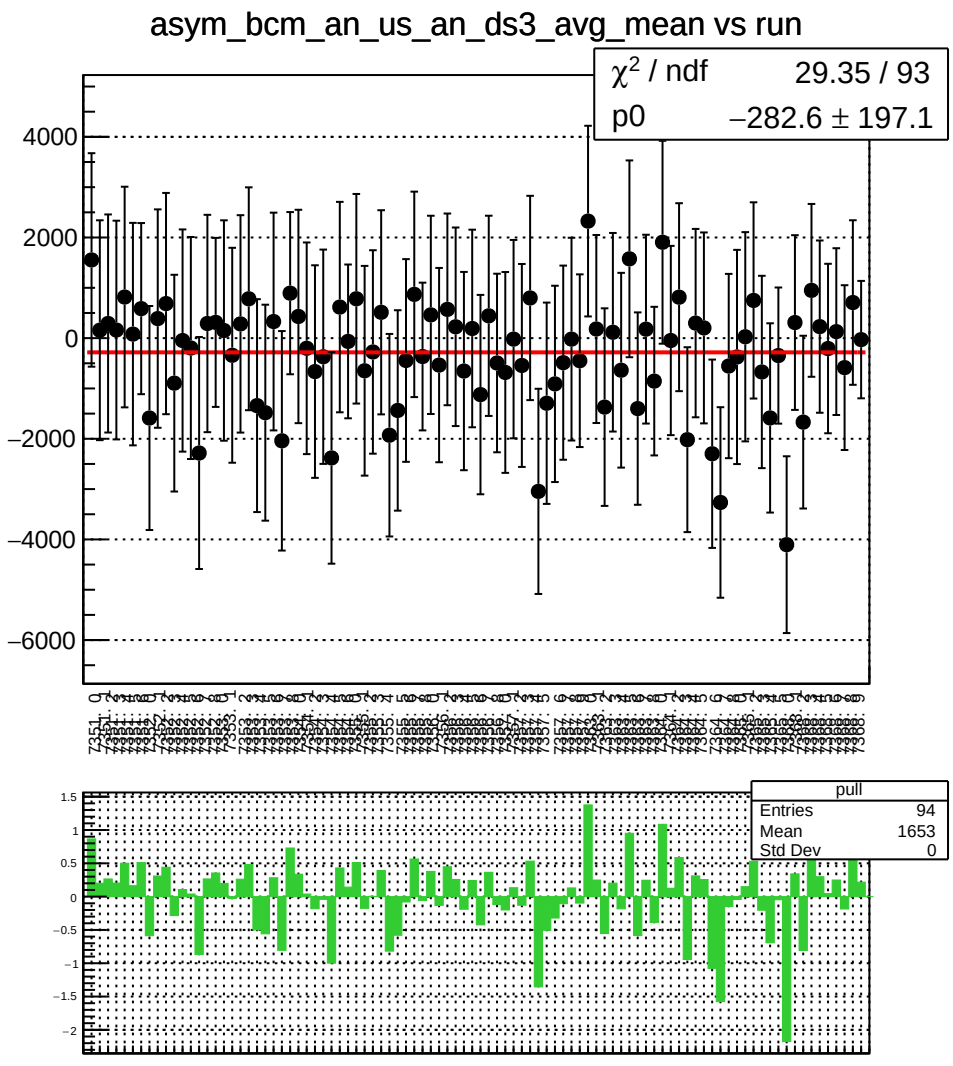

asym_bcm_an_us_an_ds_avg_mean vs run
χ² / ndf 29.67 / 93
p0 −289.7 ± 196.7
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean 1790
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean −0.00117
Std Dev 0.5618
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

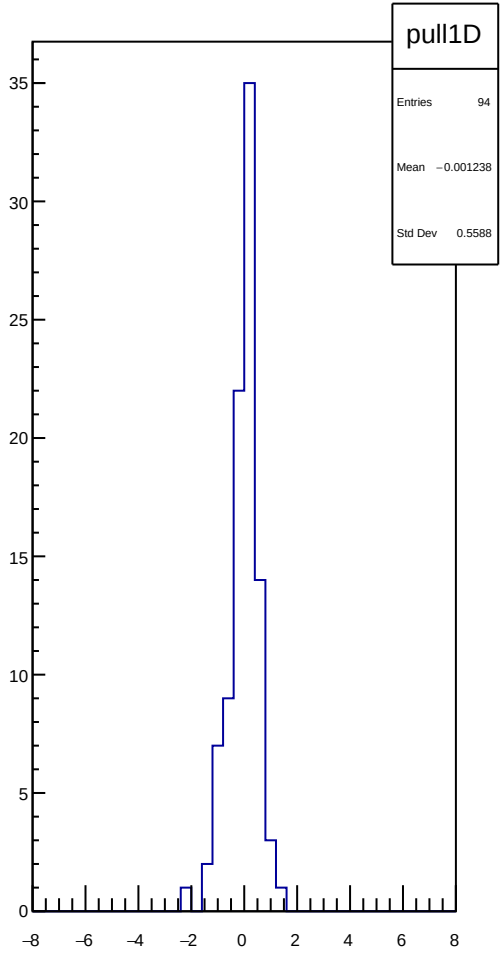

asym_bcm_an_us_an_ds_avg_rms vs run
χ^2 / ndf 1.274e+04 / 93
p0 187 ± 0.1391
220
210
200
190
180
170
160
150

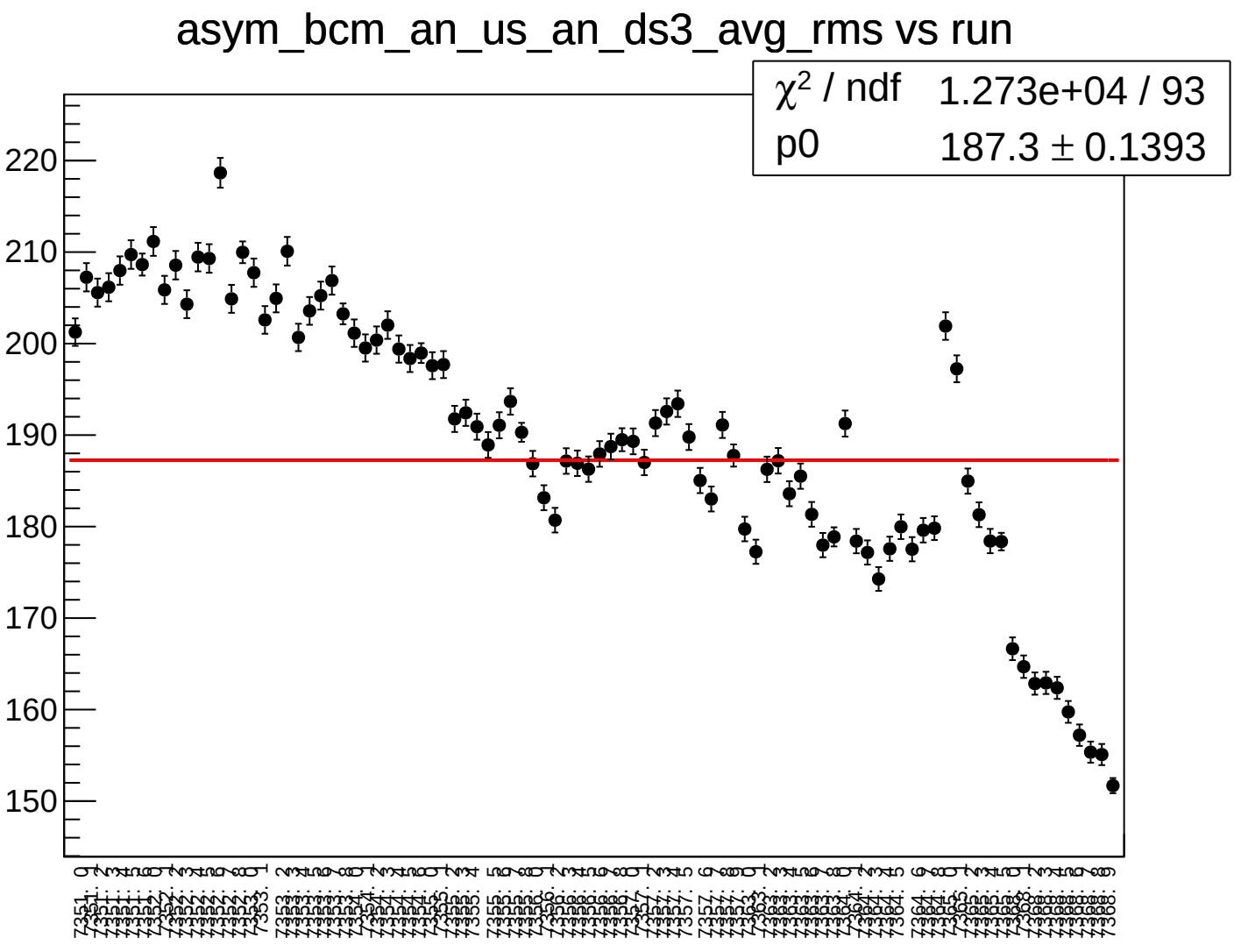

asym_bcm_an_us_an_ds_dd_mean vs run
χ² / ndf 93.81 / 93
p0 32.05 ± 11.61
600
400
200
0
−200
−400
pull
Entries 94
Mean 420.2
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.004183
Std Dev 0.999
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

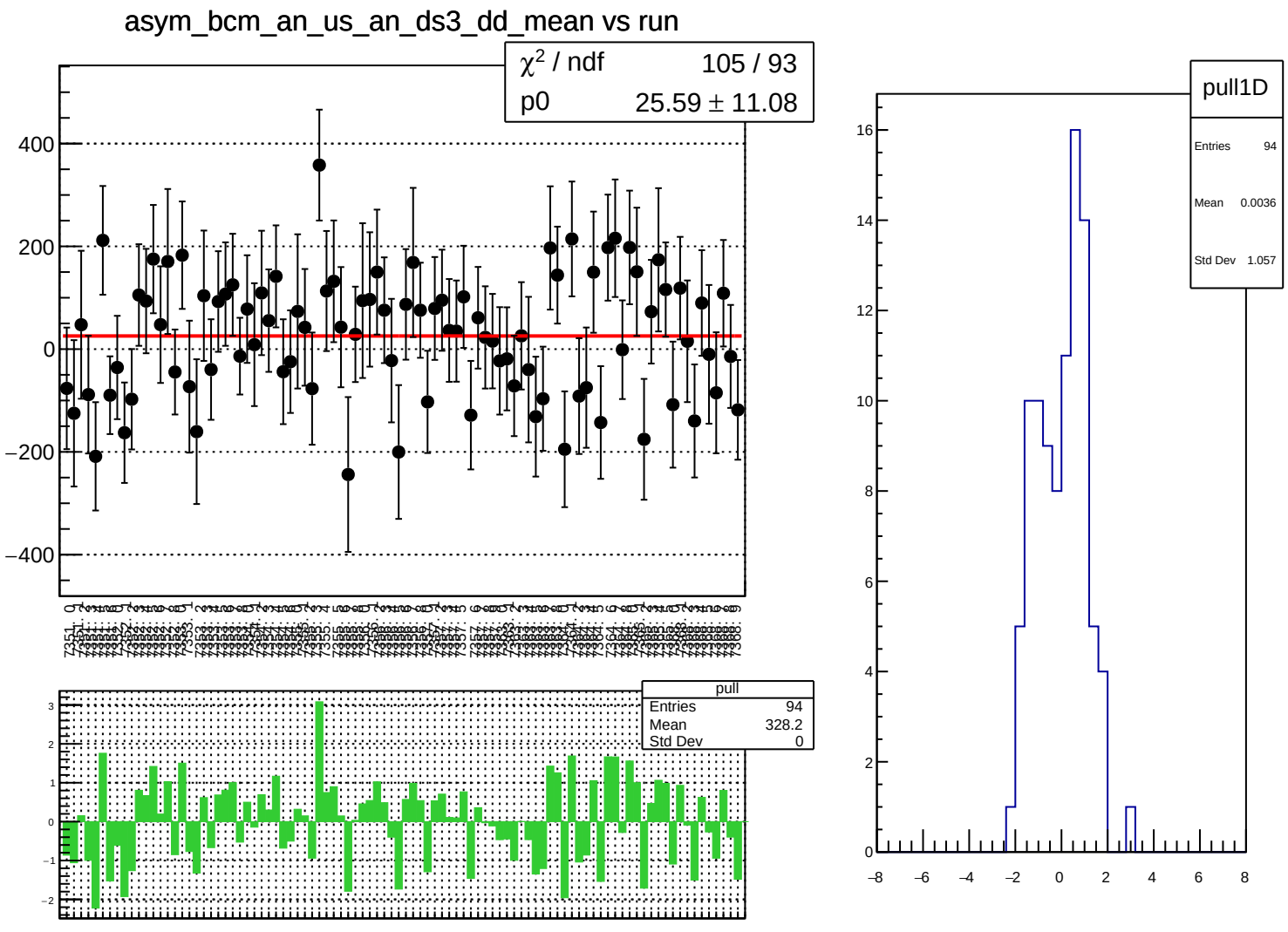
asym_bcm_an_us_an_ds_dd_rms vs run

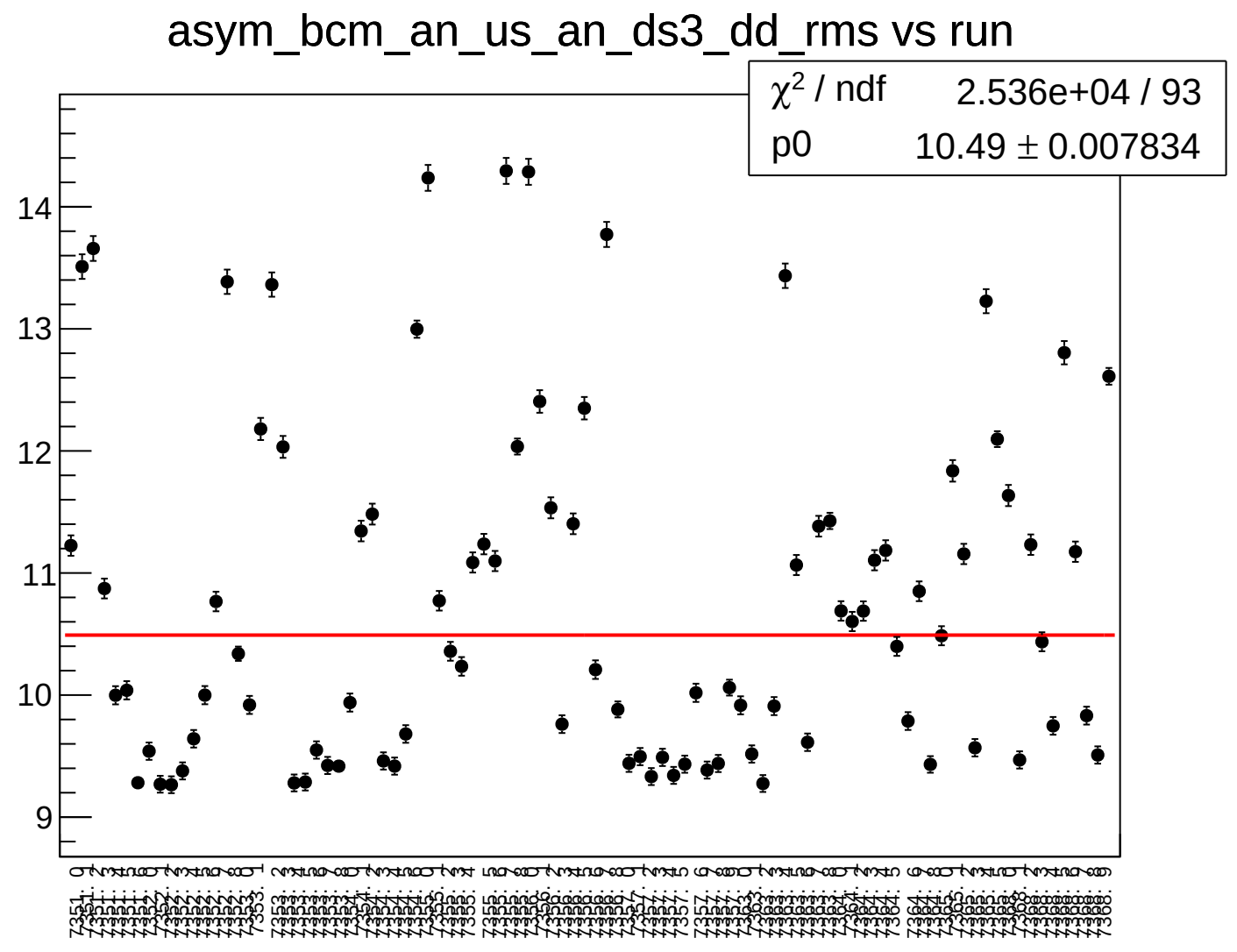


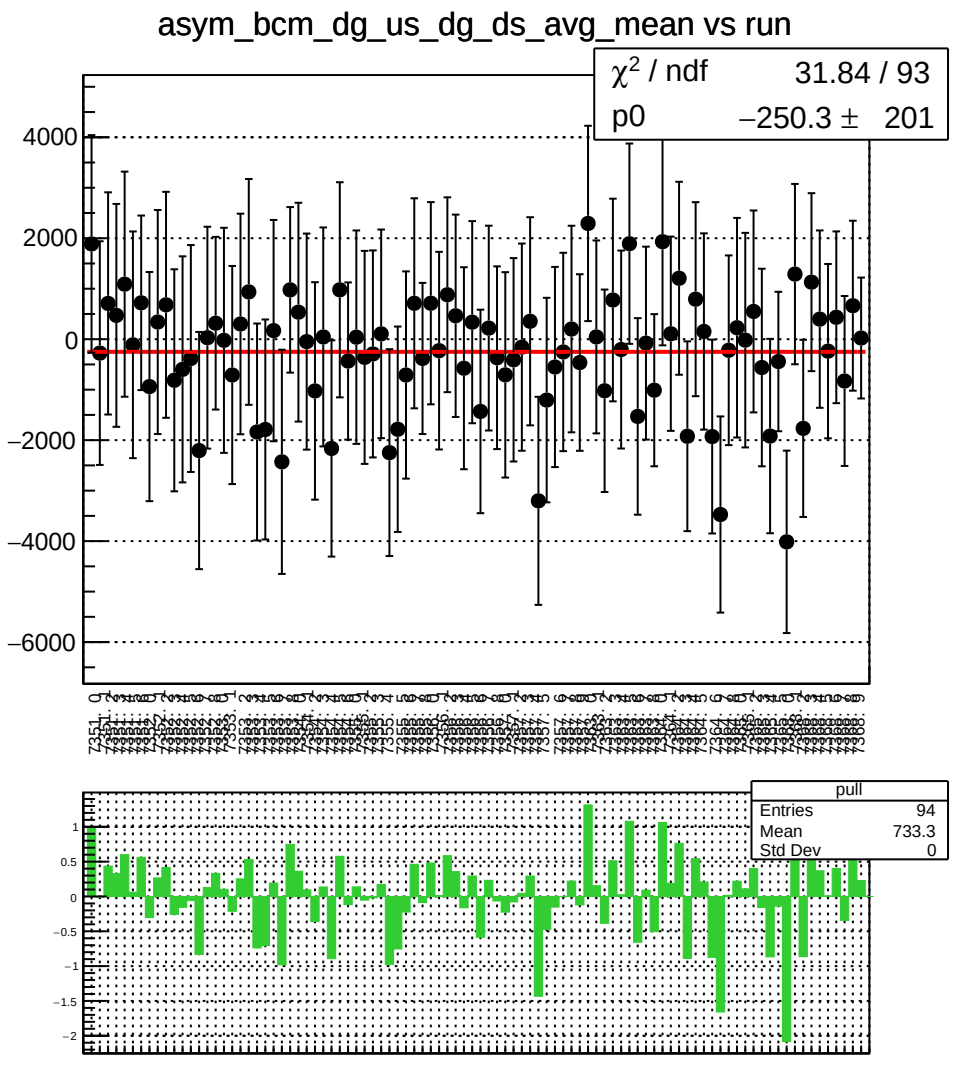

asym_bcm_an_us_an_ds3_avg_mean vs run
χ² / ndf 29.35 / 93
p0 −282.6 ± 197.1
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean 1653
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

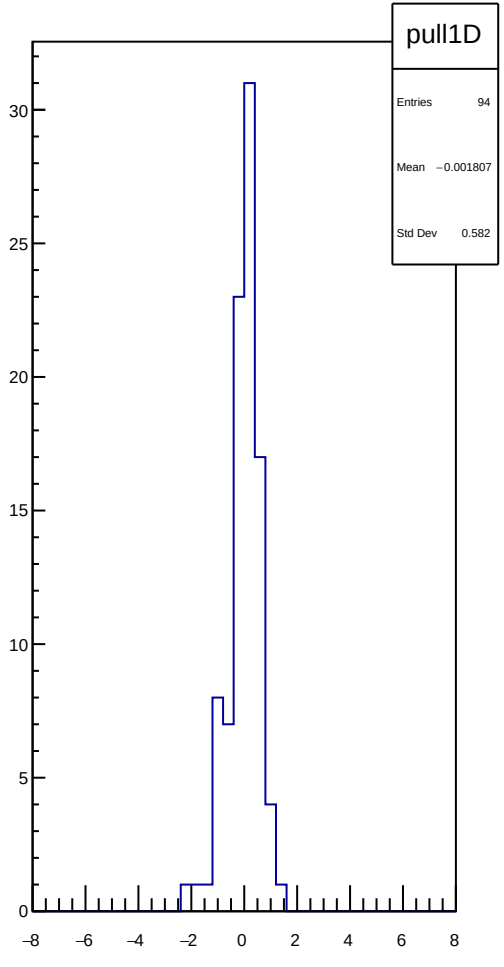

pull1D
Entries 94
Mean −0.001238
Std Dev 0.5588
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

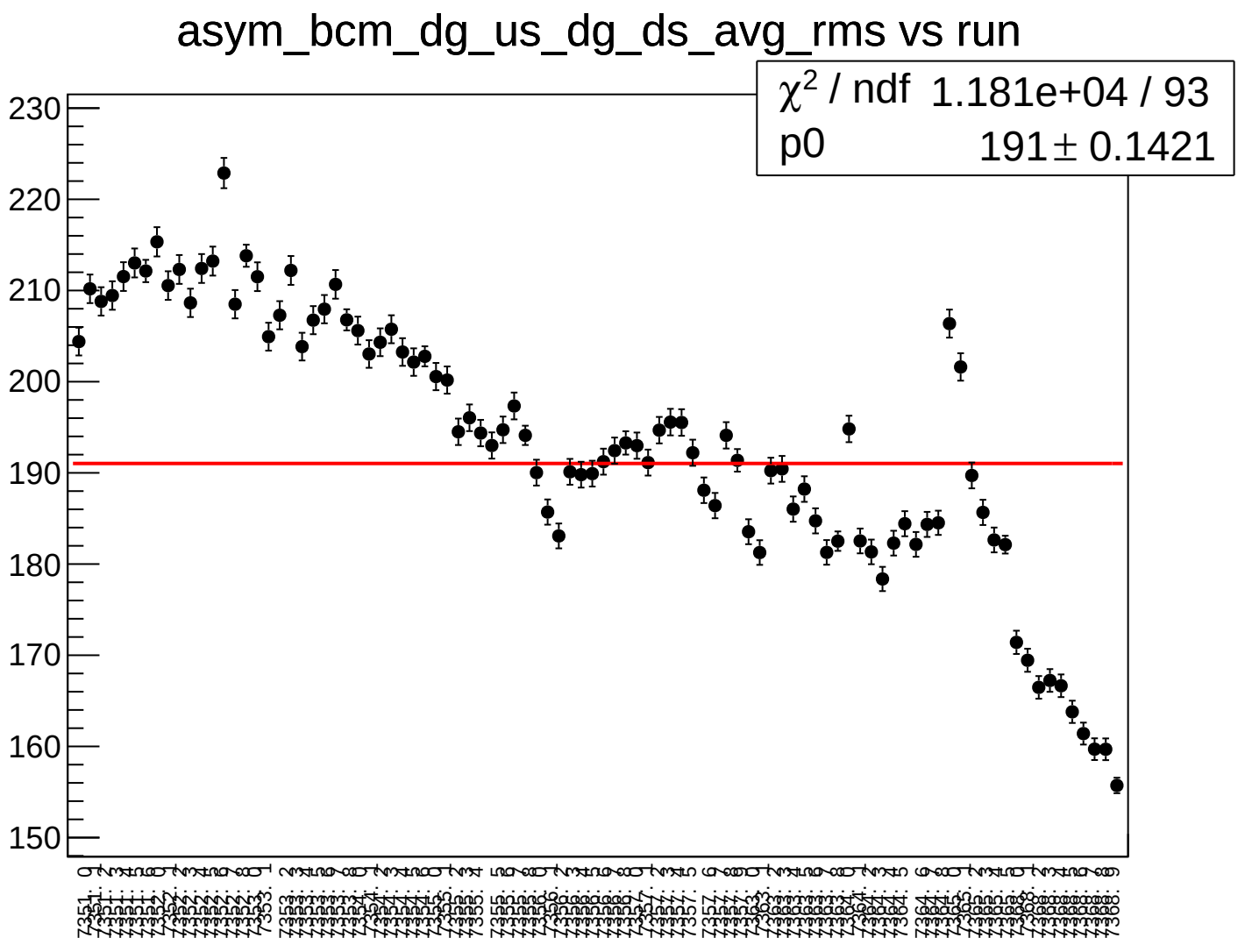

asym_bcm_an_us_an_ds3_avg_rms vs run
χ^2 / ndf 1.273e+04 / 93
p0 187.3 ± 0.1393
220
210
200
190
180
170
160
150

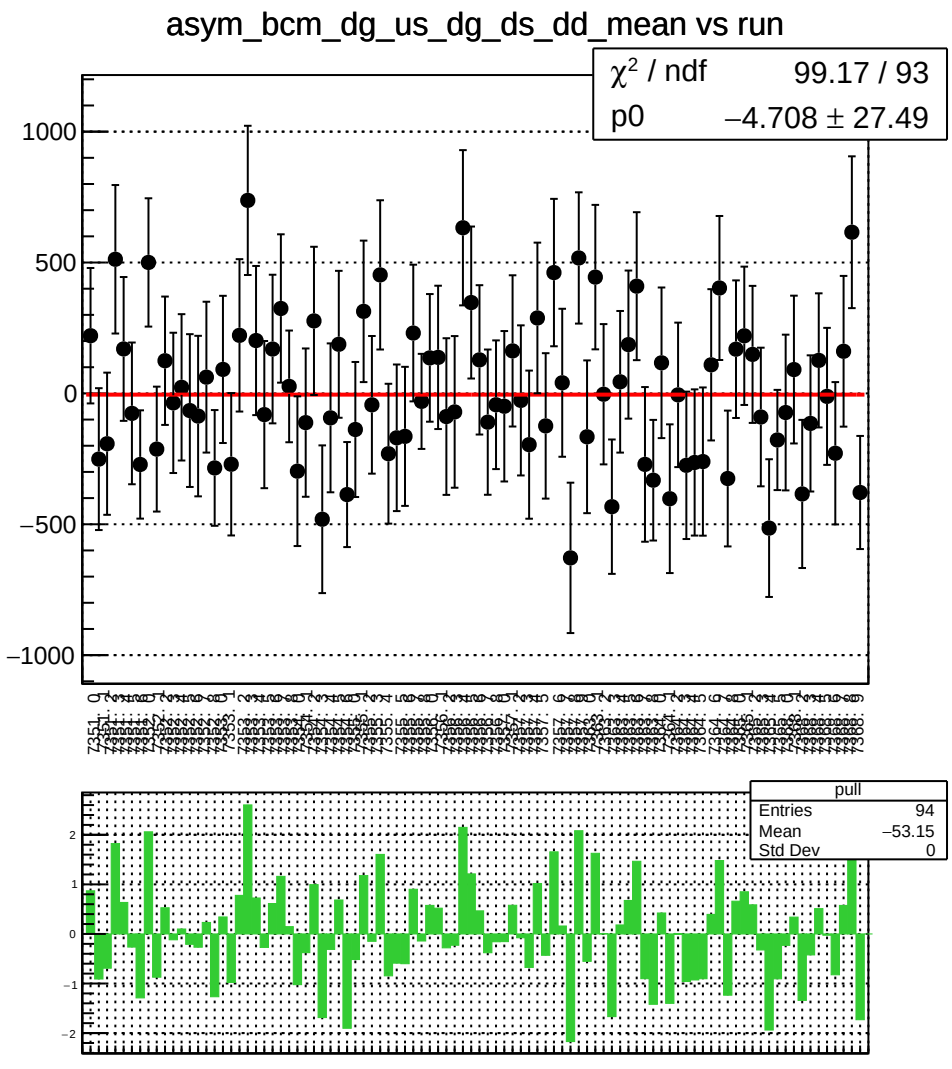

asym_bcm_an_us_an_ds3_dd_mean vs run
χ² / ndf 105 / 93
p0 25.59 ± 11.08
400
200
0
−200
−400
pull
Entries 94
Mean 328.2
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.0036
Std Dev 1.057
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

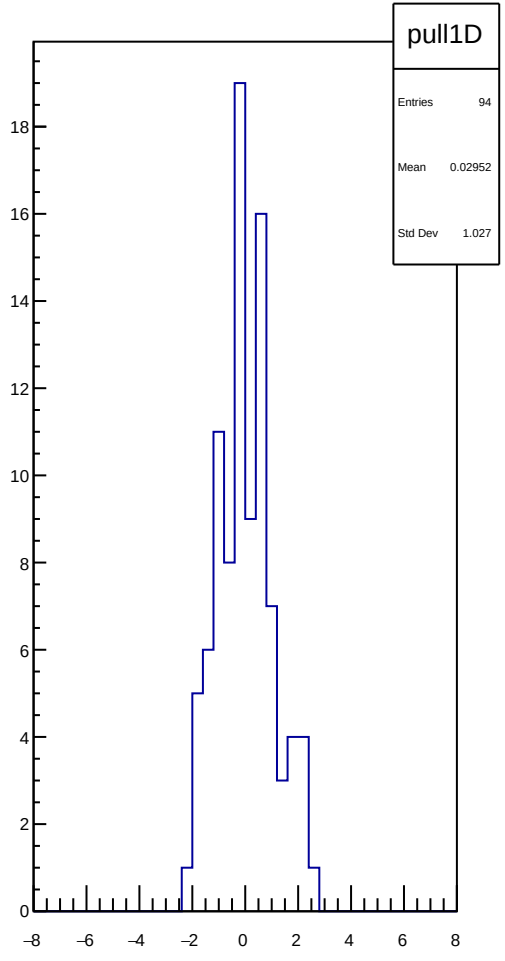

asym_bcm_an_us_an_ds3_dd_rms vs run
χ² / ndf 2.536e+04 / 93
p0 10.49 ± 0.007834
14
13
12
11
10
9

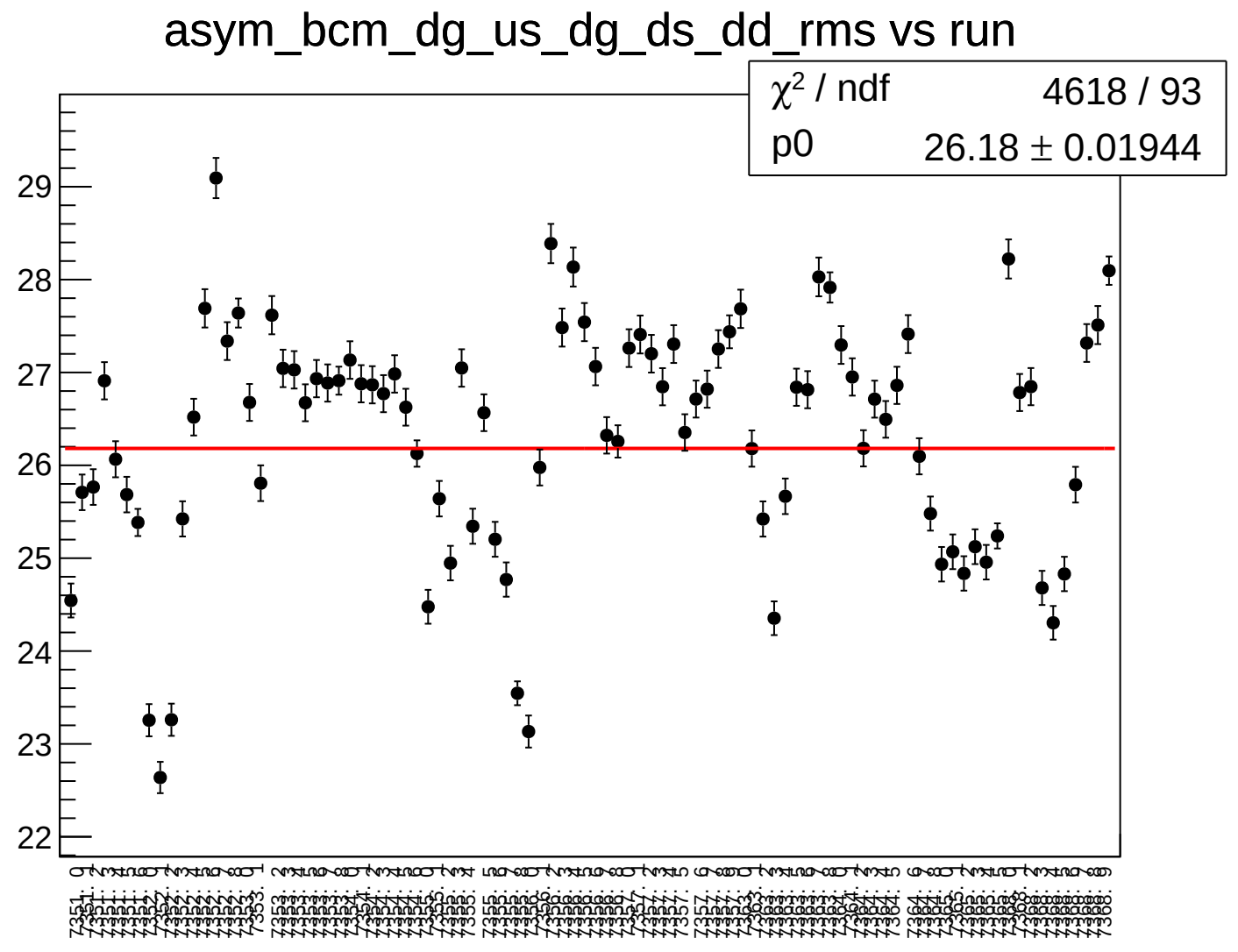

asym_bcm_dg_us_dg_ds_avg_mean vs run
χ² / ndf 31.84 / 93
p0 −250.3 ± 201
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean 733.3
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

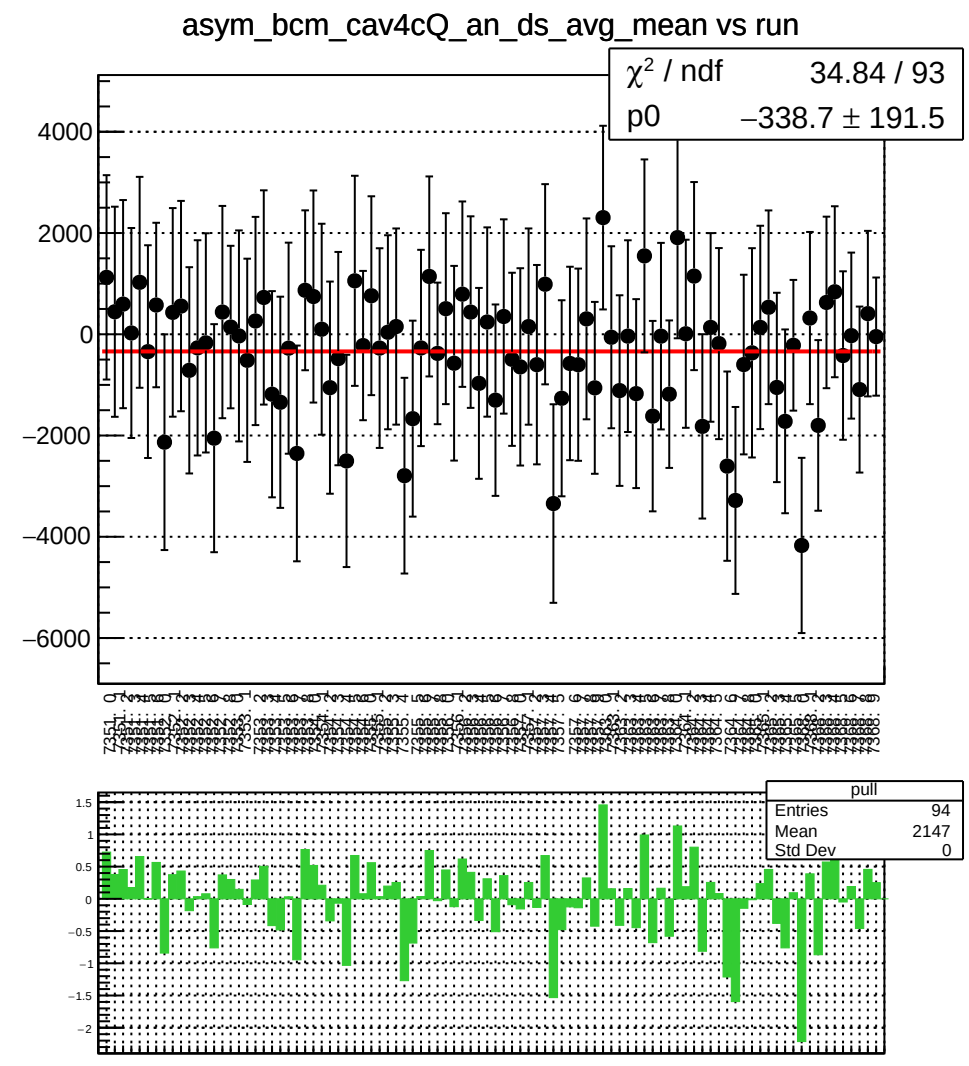

pull1D
Entries 94
Mean −0.001807
Std Dev 0.582
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

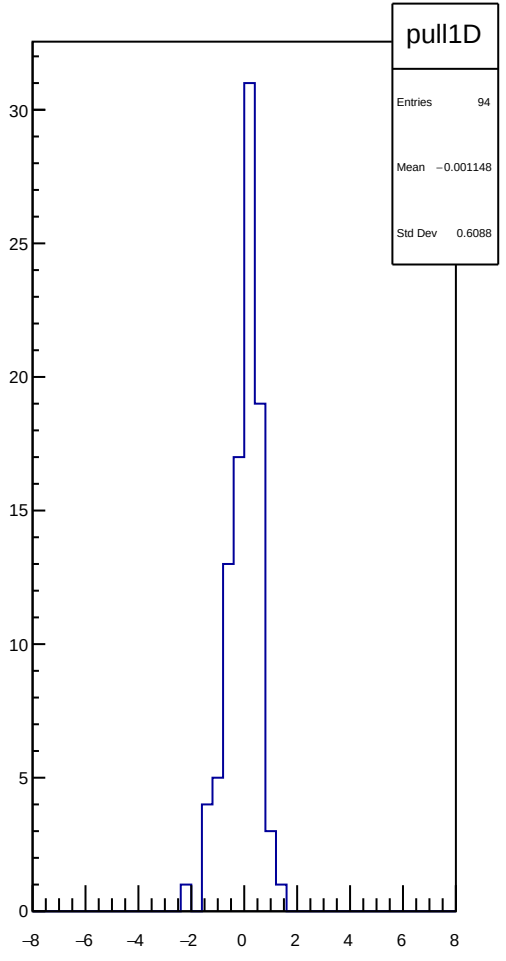

asym_bcm_dg_us_dg_ds_avg_rms vs run
χ² / ndf 1.181e+04 / 93
p0 191 ± 0.1421
230
220
210
200
190
180
170
160
150

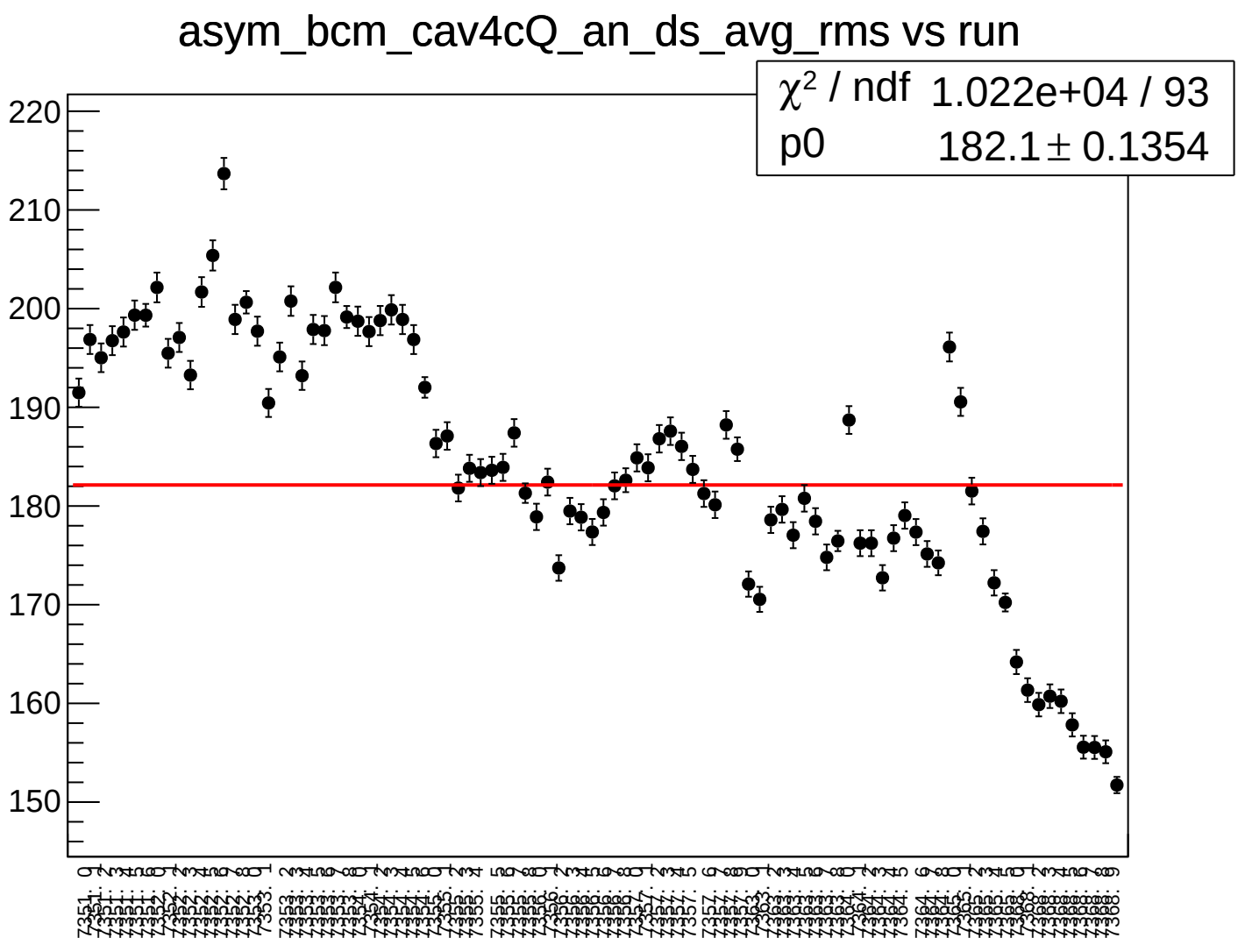

asym_bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 99.17 / 93
p0 −4.708 ± 27.49
1000
500
0
−500
−1000
pull
Entries 94
Mean −53.15
Std Dev 0
2
1
0
−1
−2

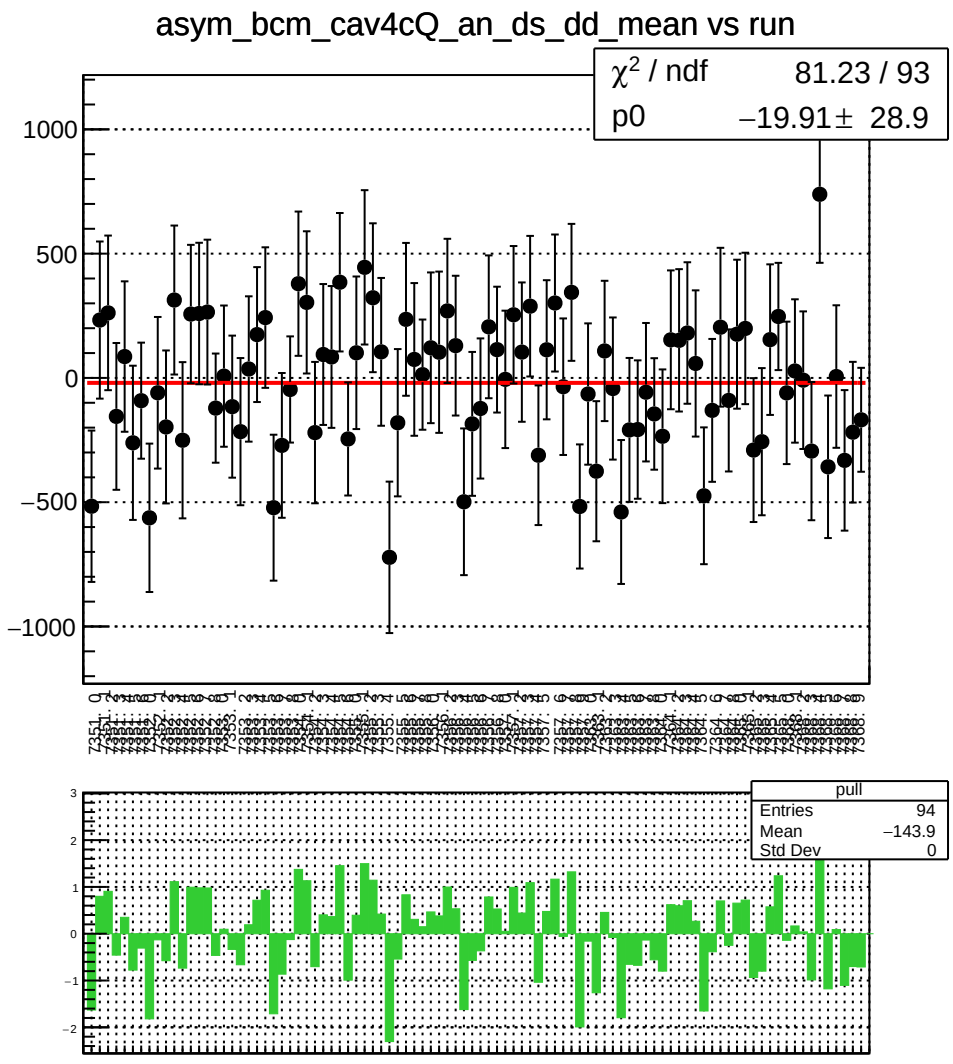

pull1D
Entries 94
Mean 0.02952
Std Dev 1.027
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

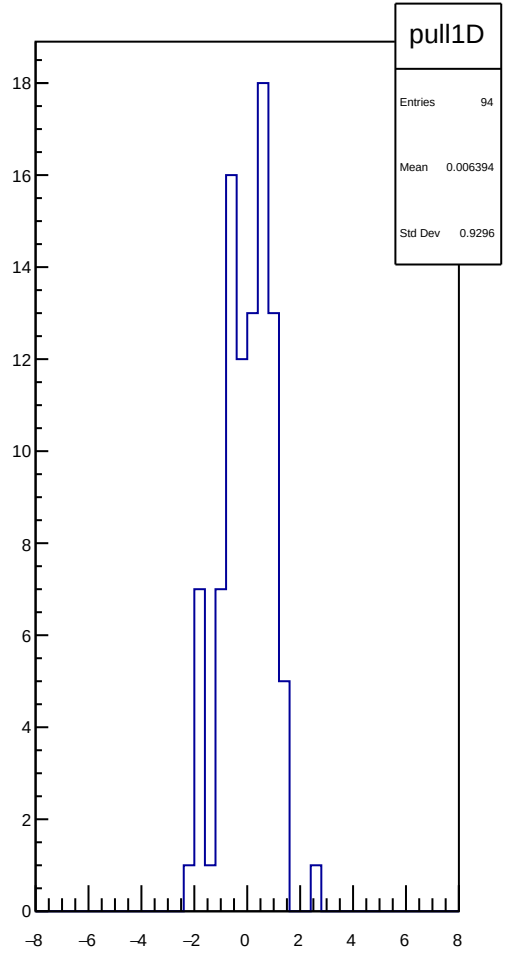

asym_bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 4618 / 93
p0 26.18 ± 0.01944
29
28
27
26
25
24
23
22

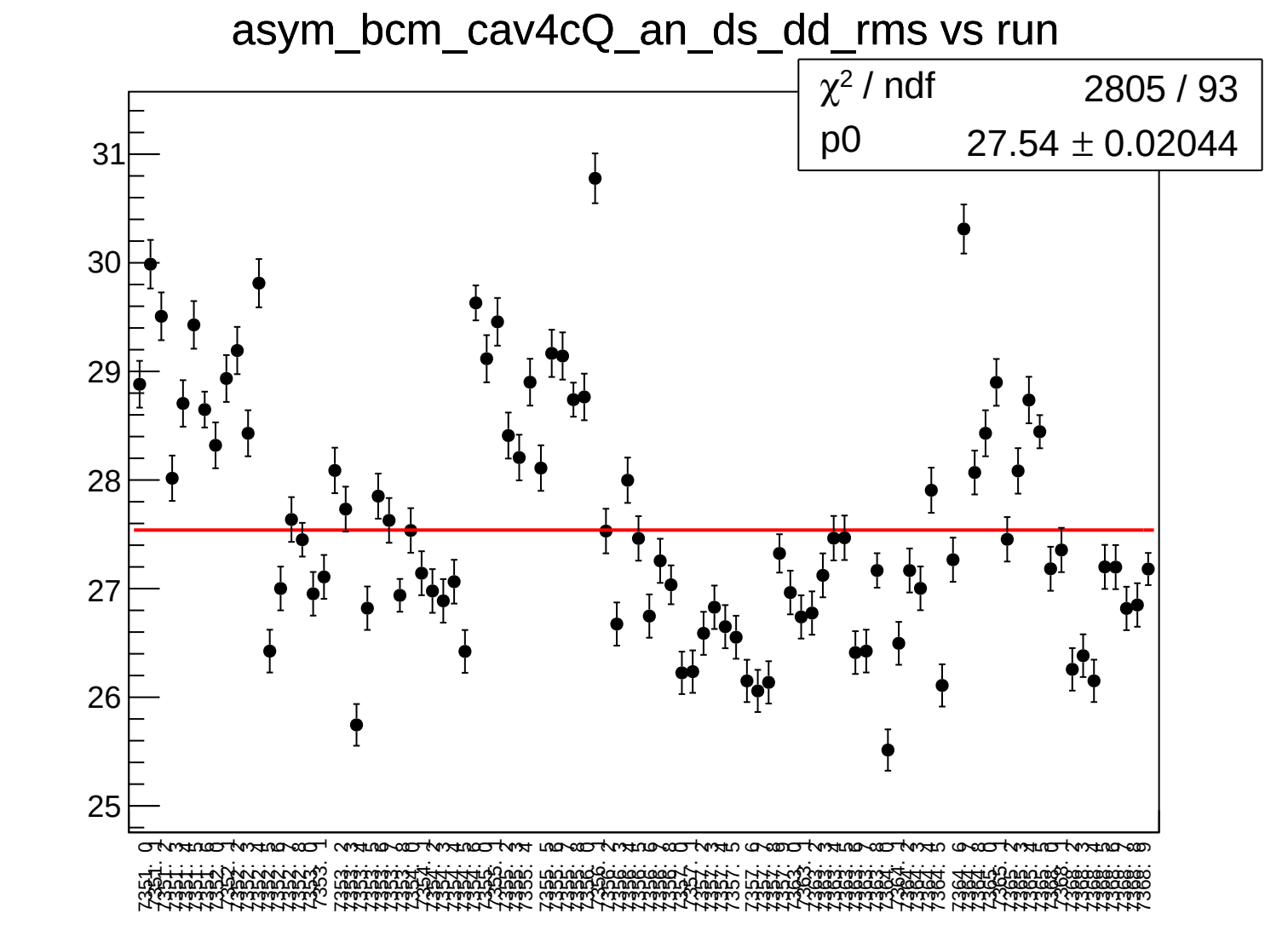

asym_bcm_cav4cQ_an_ds_avg_mean vs run
χ² / ndf 34.84 / 93
p0 −338.7 ± 191.5
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean 2147
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

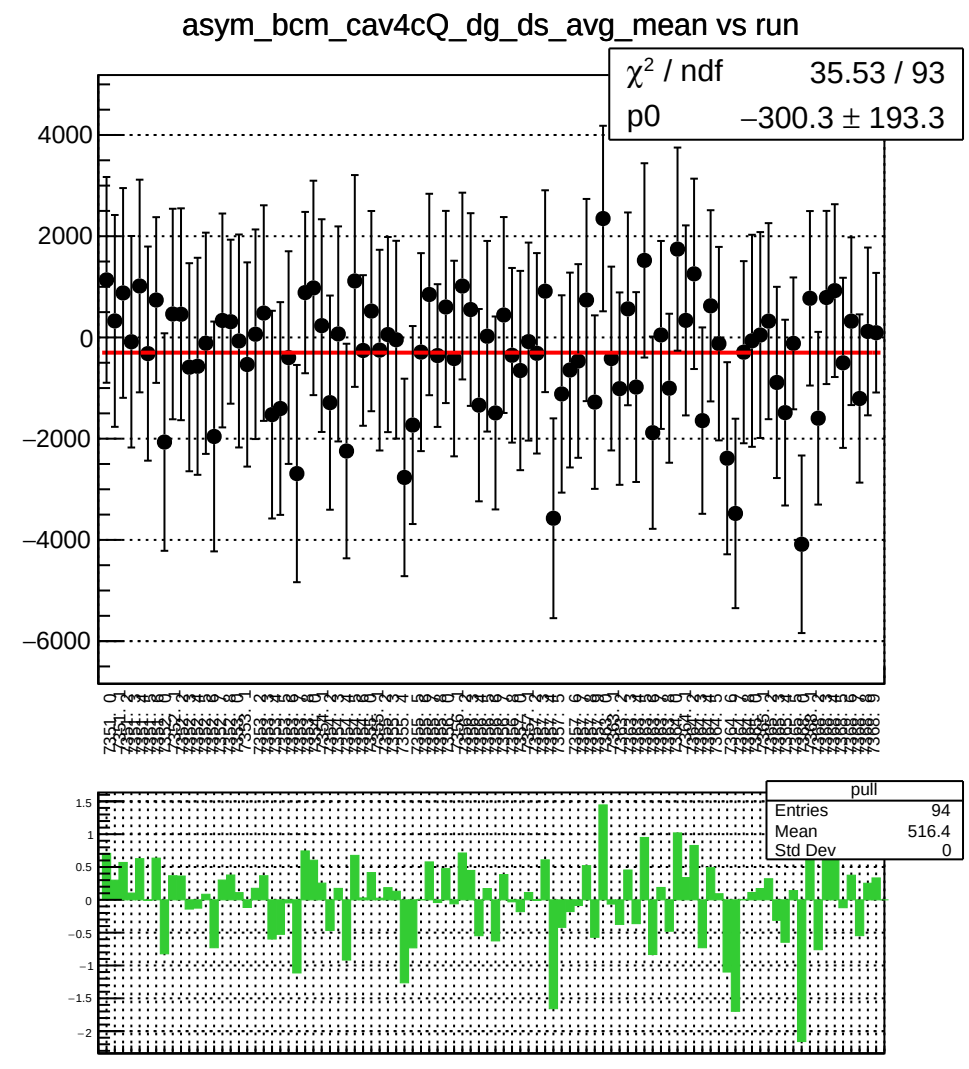

pull1D
Entries 94
Mean −0.001148
Std Dev 0.6088
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

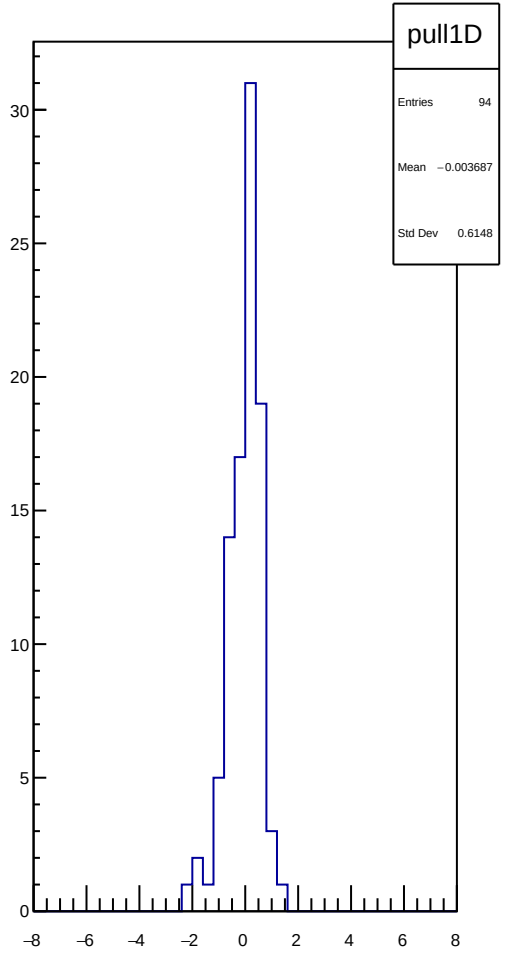

asym_bcm_cav4cQ_an_ds_avg_rms vs run
χ² / ndf 1.022e+04 / 93
p0 182.1 ± 0.1354
220
210
200
190
180
170
160
150

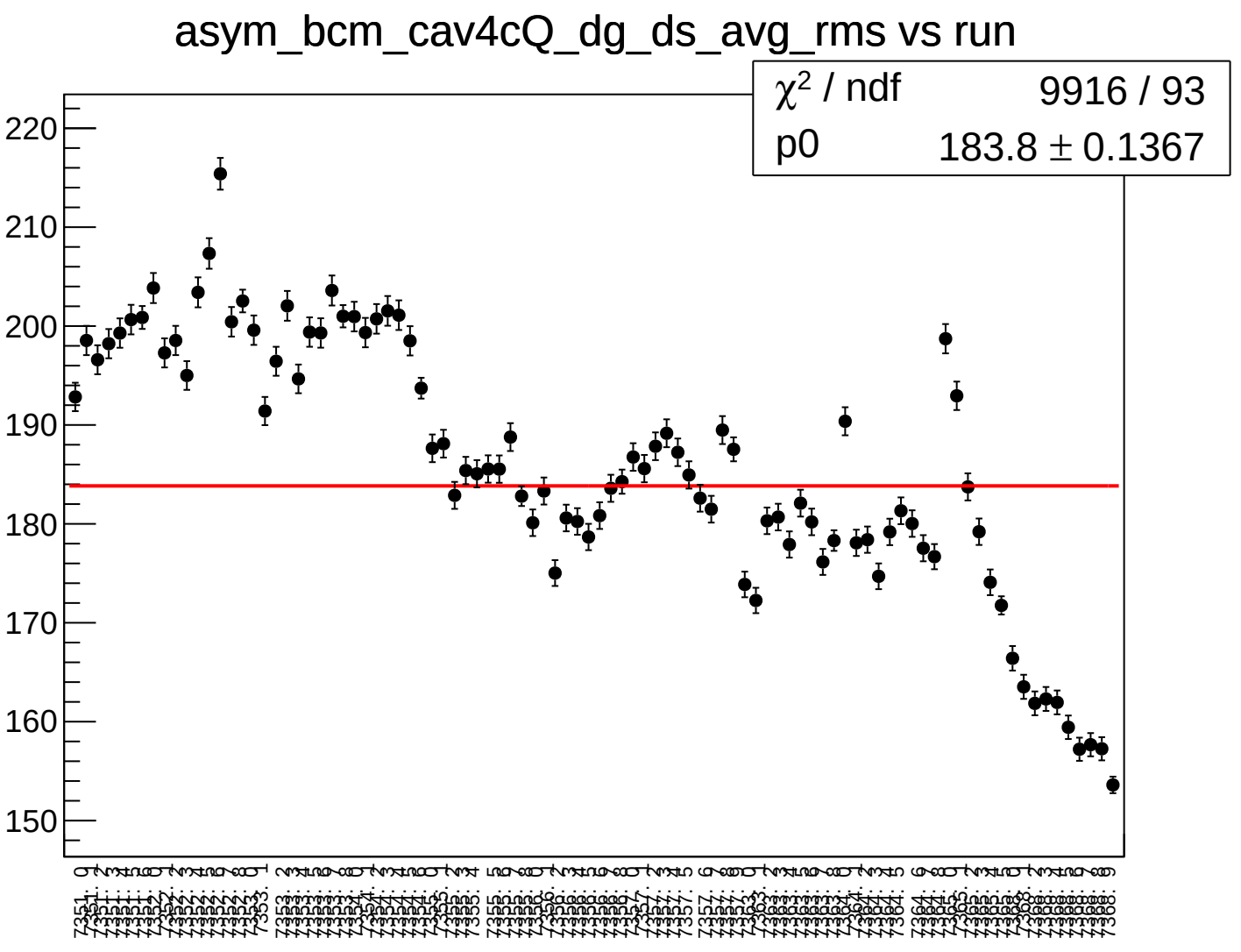

asym_bcm_cav4cQ_an_ds_dd_mean vs run
χ² / ndf 81.23 / 93
p0 −19.91 ± 28.9
1000
500
0
−500
−1000
pull
Entries 94
Mean −143.9
Std Dev 0
3
2
1
0
−1
−2

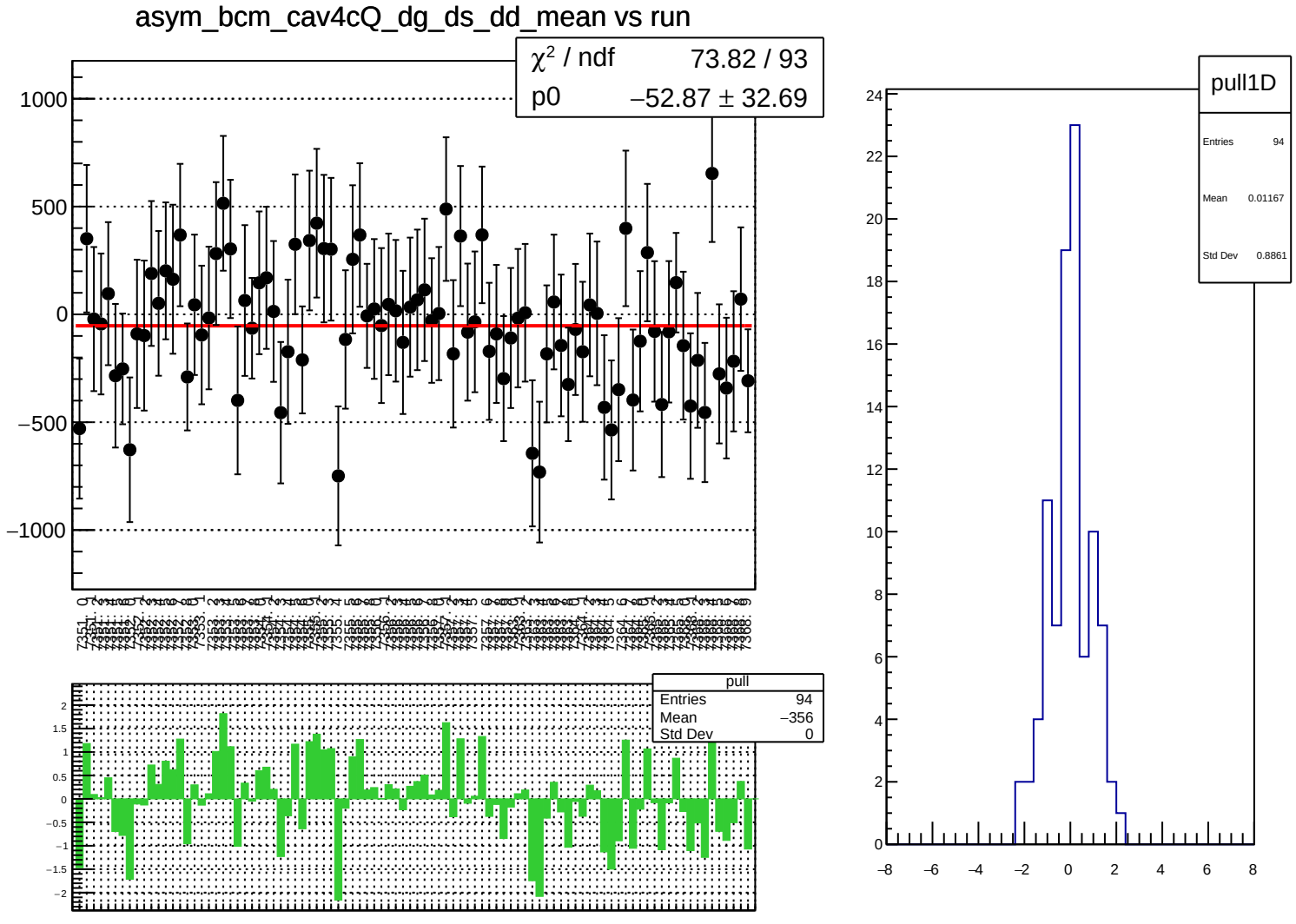

pull1D
Entries 94
Mean 0.006394
Std Dev 0.9296
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

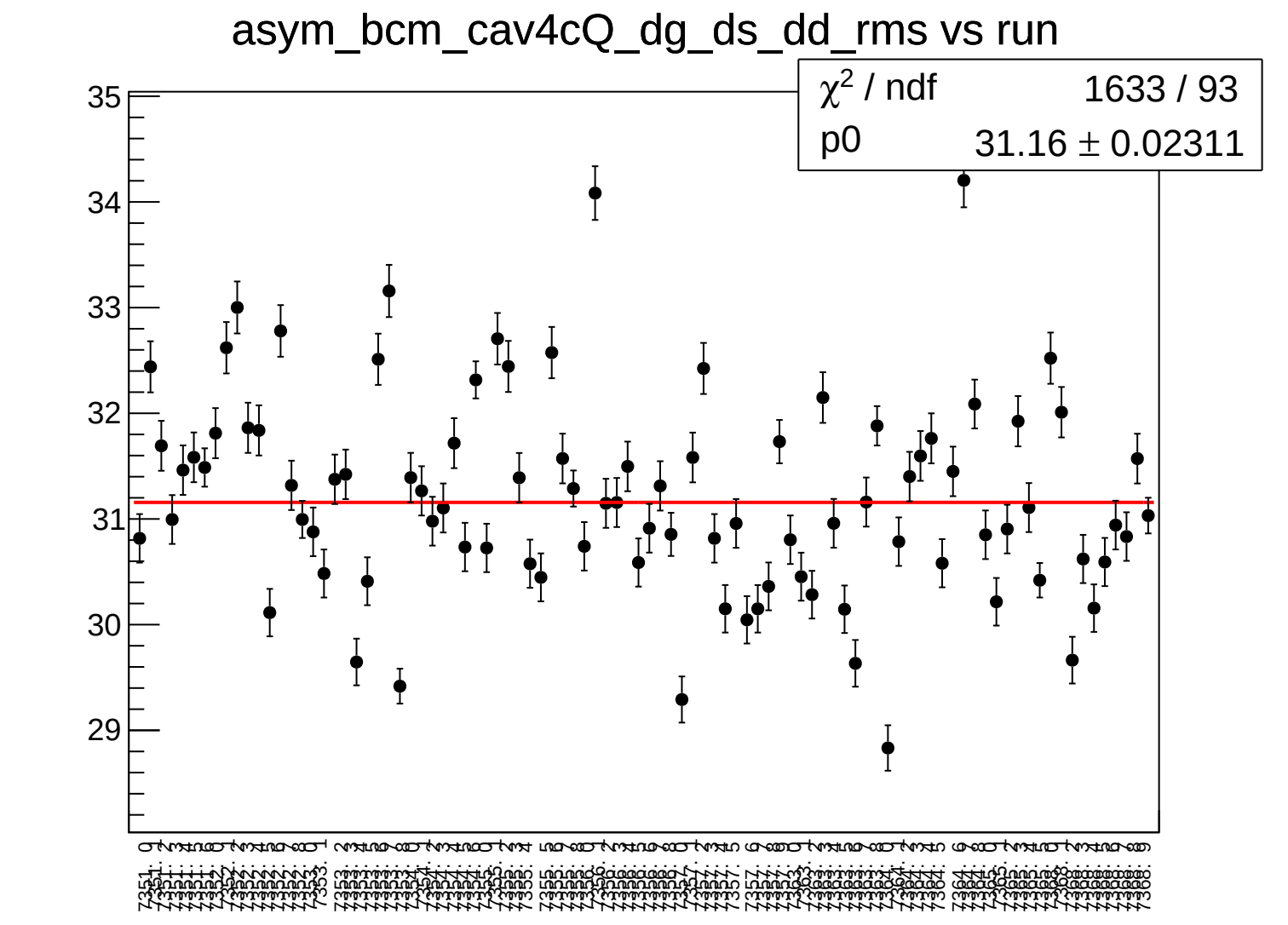

asym_bcm_cav4cQ_an_ds_dd_rms vs run
χ² / ndf 2805 / 93
p0 27.54 ± 0.02044
31
30
29
28
27
26
25

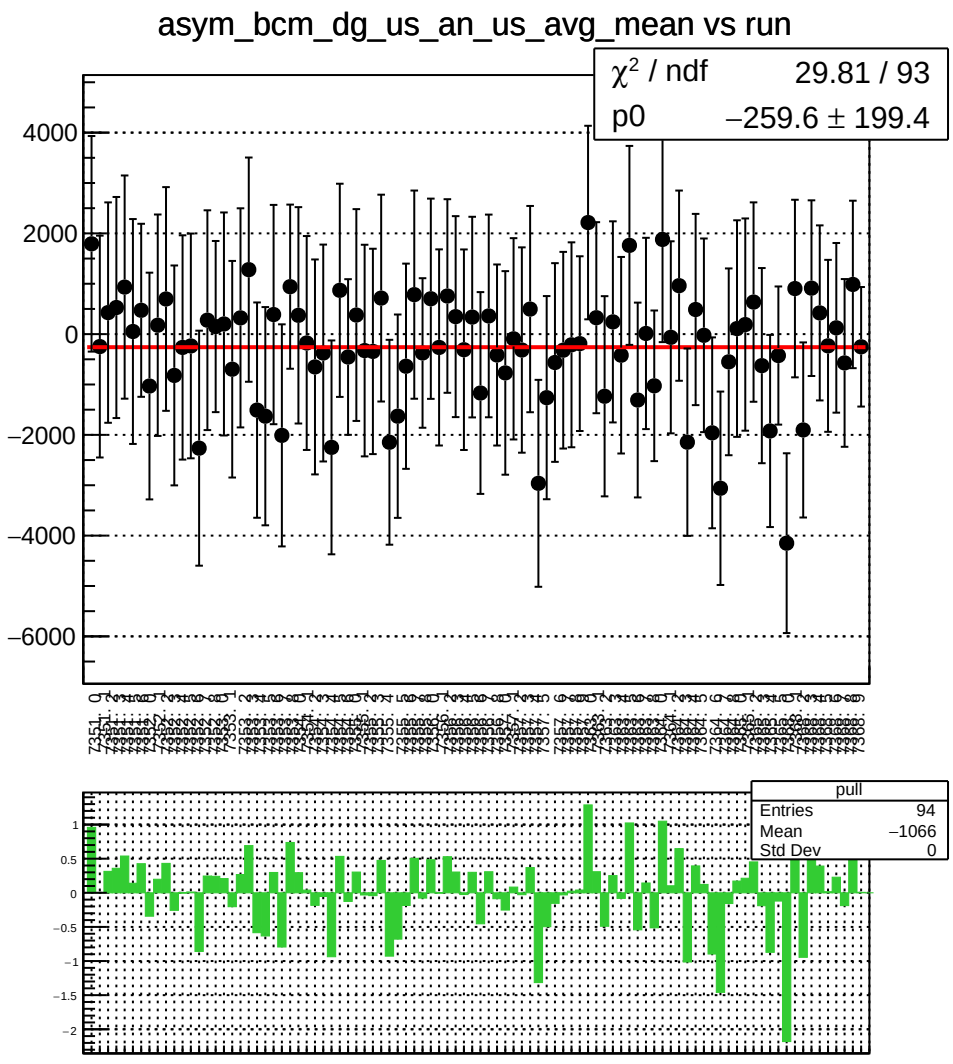

asym_bcm_cav4cQ_dg_ds_avg_mean vs run
χ² / ndf 35.53 / 93
p0 −300.3 ± 193.3
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean 516.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

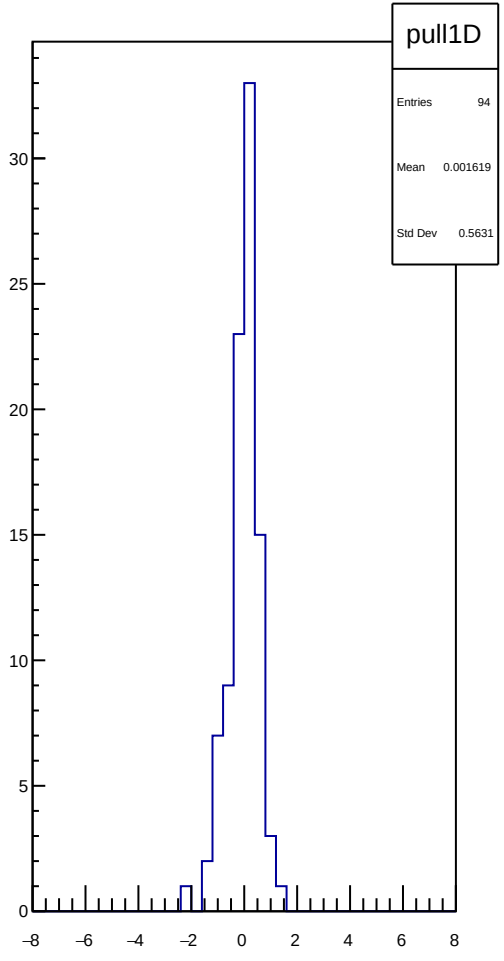

pull1D
Entries 94
Mean −0.003687
Std Dev 0.6148
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

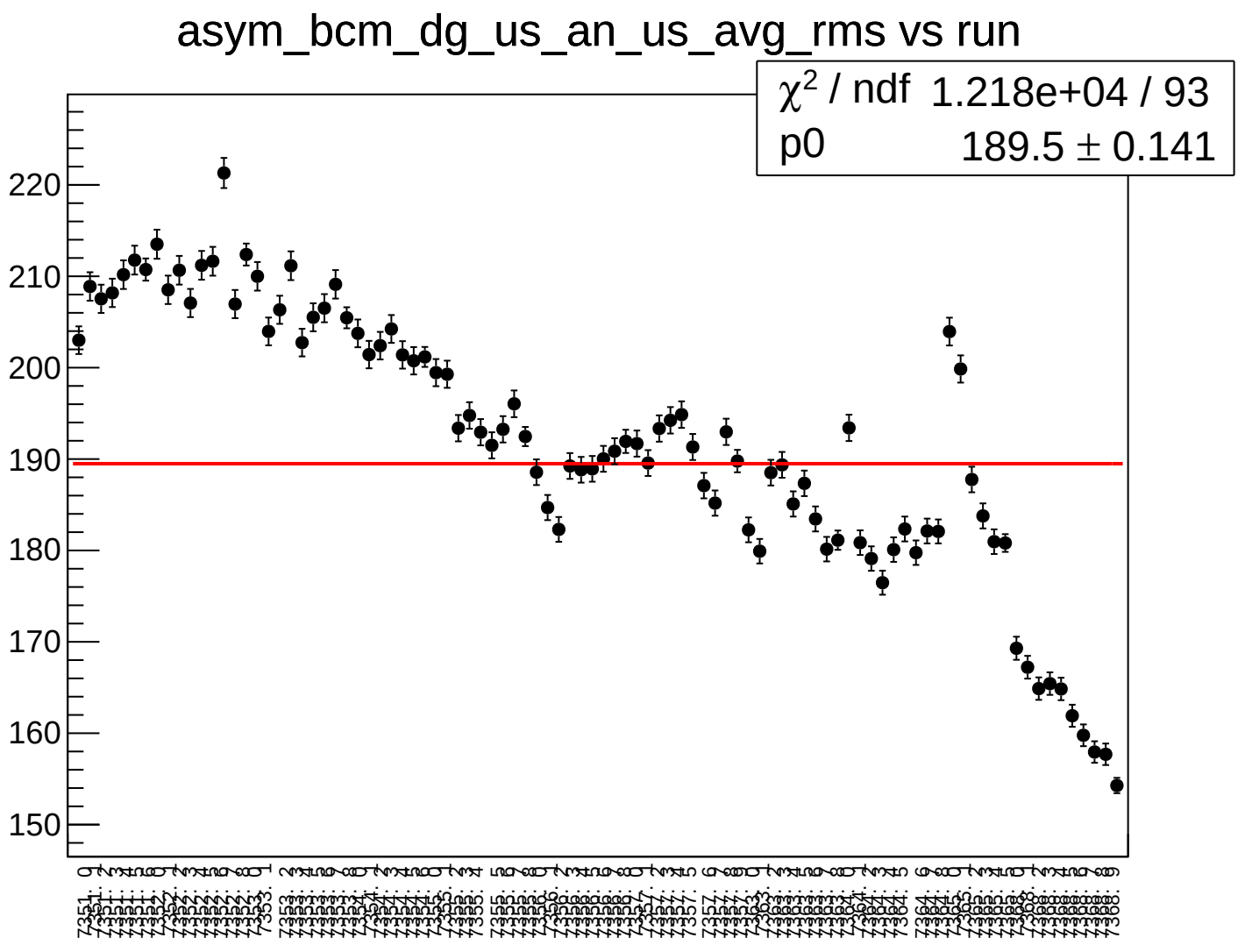

asym_bcm_cav4cQ_dg_ds_avg_rms vs run
χ^2 / ndf 9916 / 93
p0 183.8 ± 0.1367
220
210
200
190
180
170
160
150

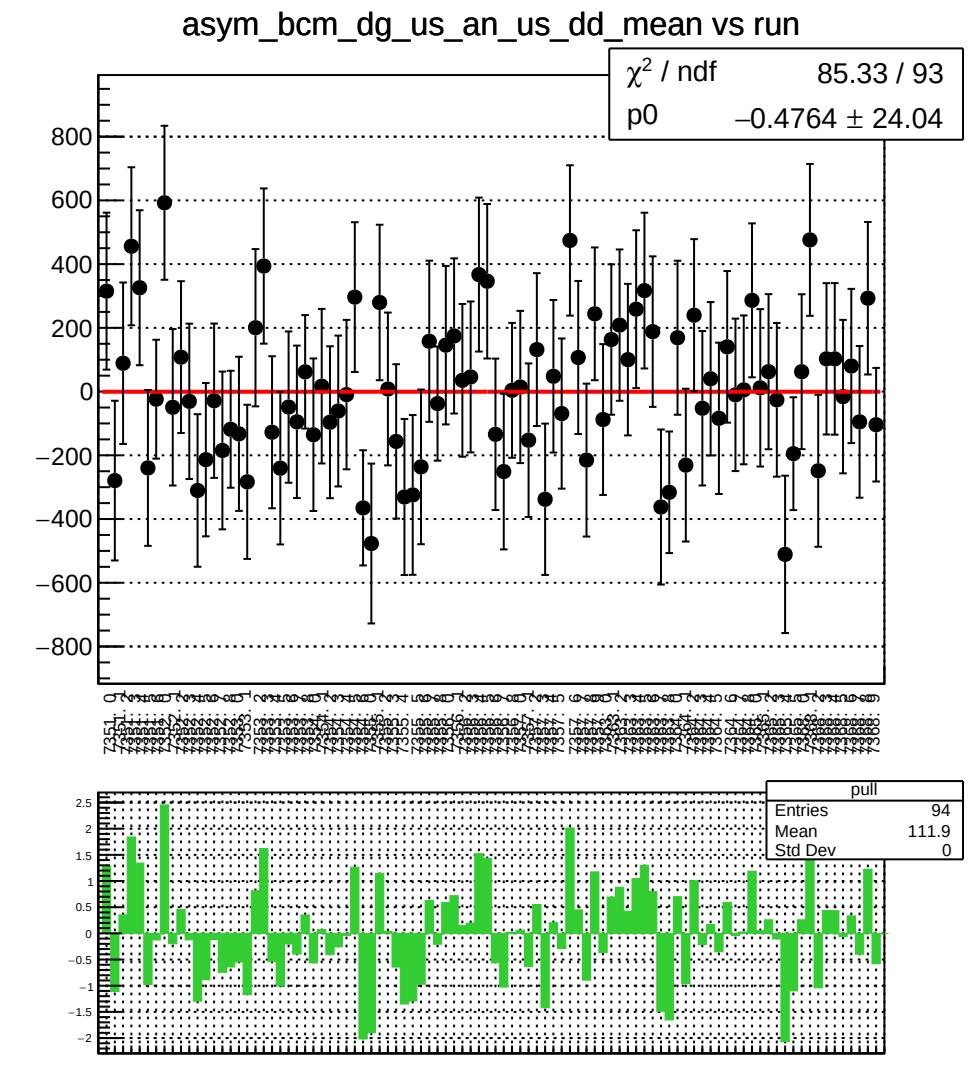

asym_bcm_cav4cQ_dg_ds_dd_mean vs run
χ² / ndf 73.82 / 93
p0 −52.87 ± 32.69
1000
500
0
−500
−1000
pull
Entries 94
Mean −356
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean 0.01167
Std Dev 0.8861
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

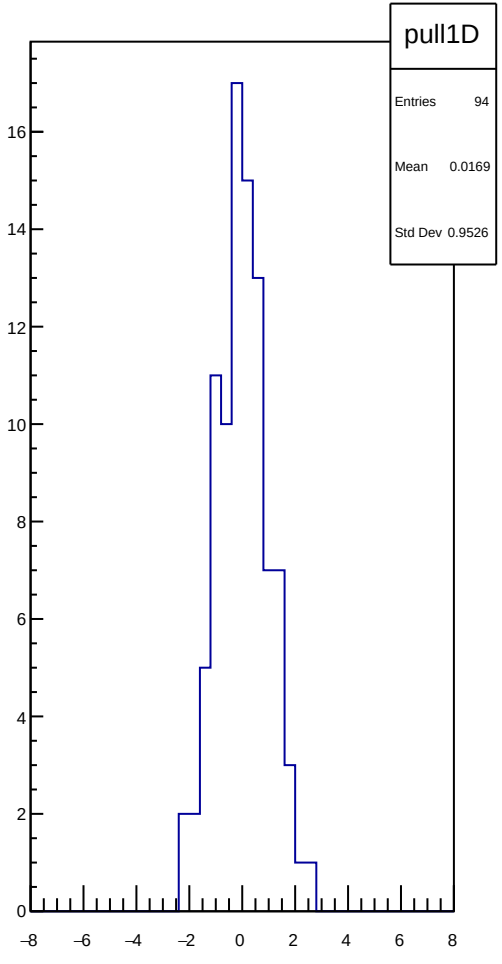

asym_bcm_cav4cQ_dg_ds_dd_rms vs run
χ² / ndf 1633 / 93
p0 31.16 ± 0.02311
35
34
33
32
31
30
29

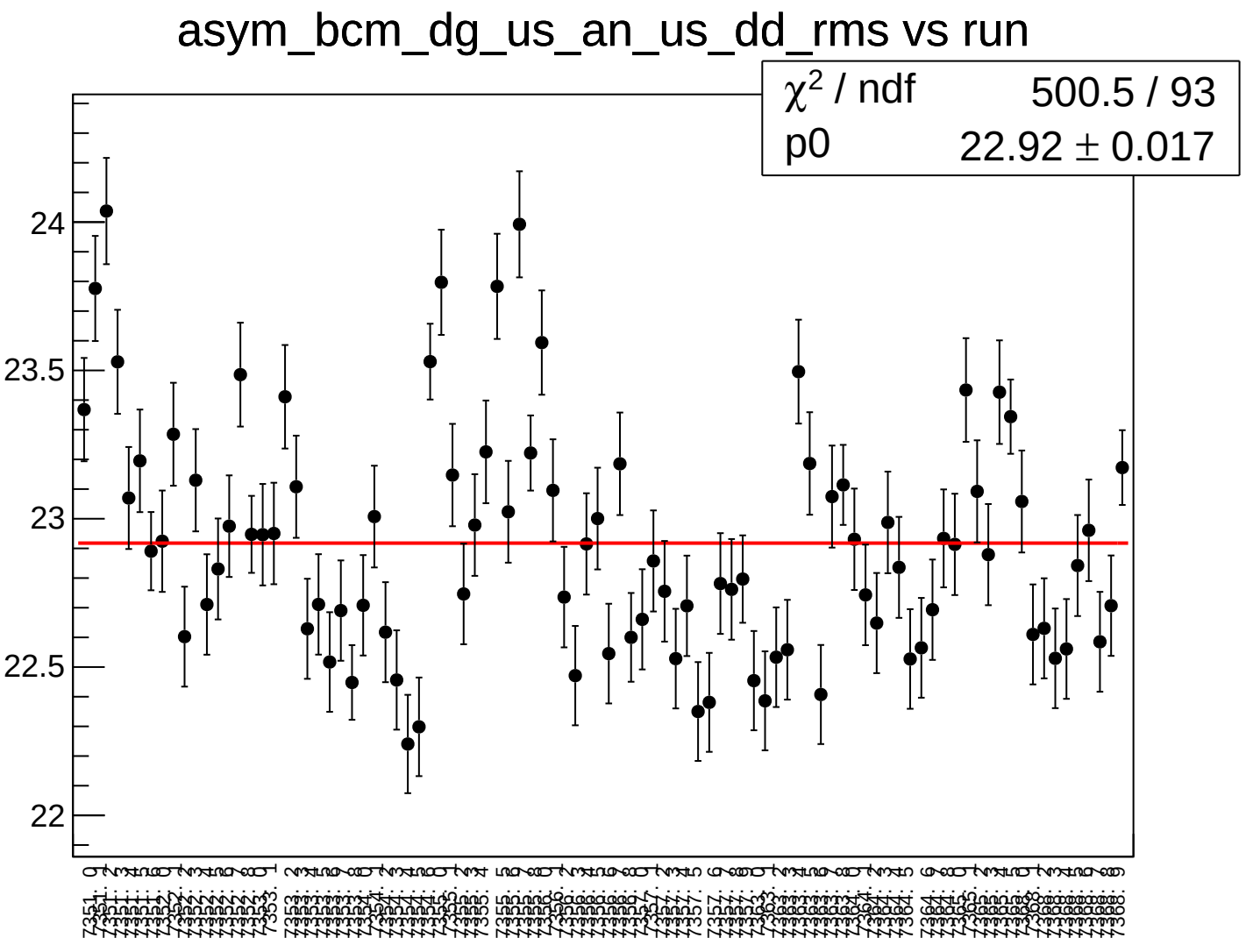

asym_bcm_dg_us_an_us_avg_mean vs run
χ² / ndf 29.81 / 93
p0 −259.6 ± 199.4
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean −1066
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

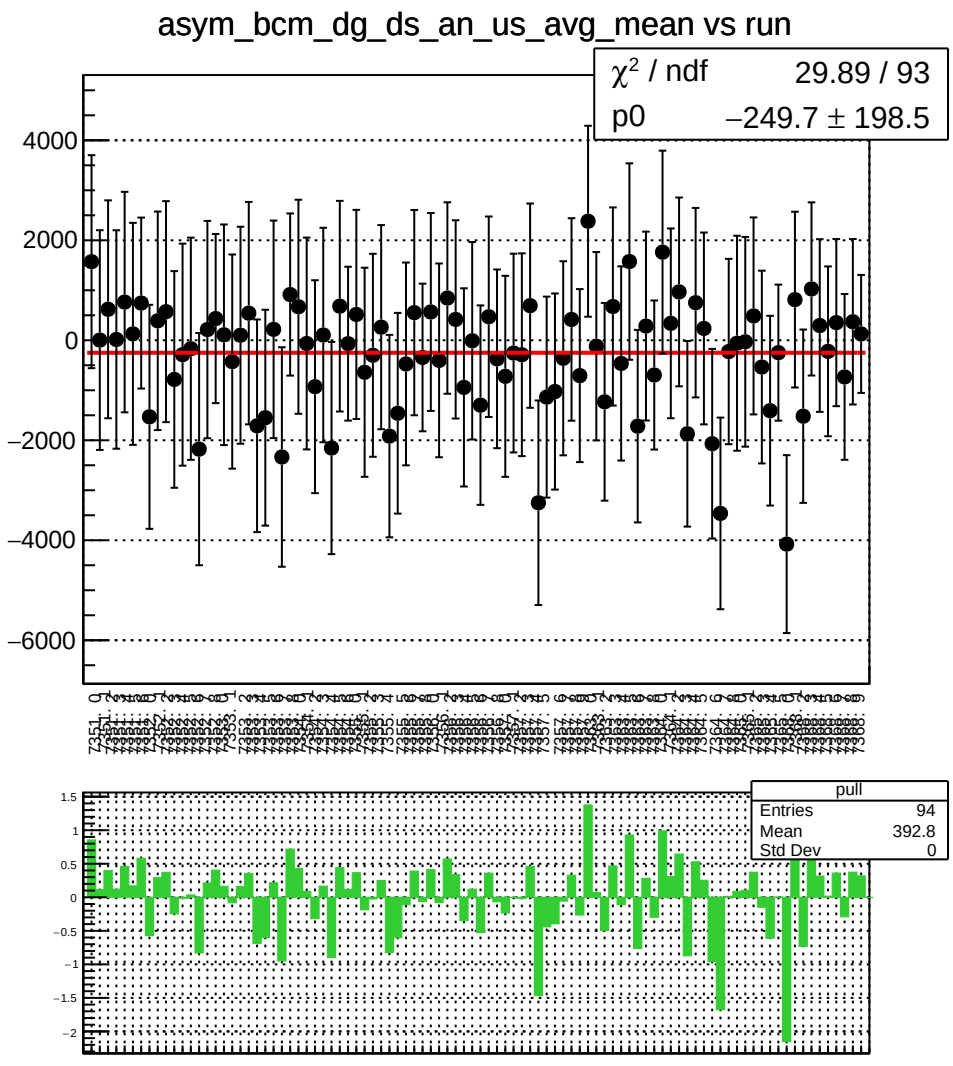

pull1D
Entries 94
Mean 0.001619
Std Dev 0.5631
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

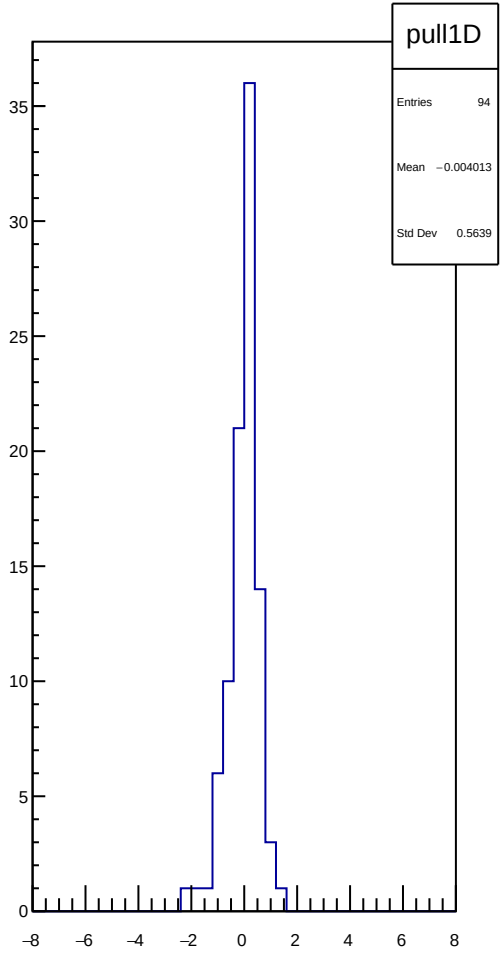

asym_bcm_dg_us_an_us_avg_rms vs run
χ² / ndf 1.218e+04 / 93
p0 189.5 ± 0.141
220
210
200
190
180
170
160
150

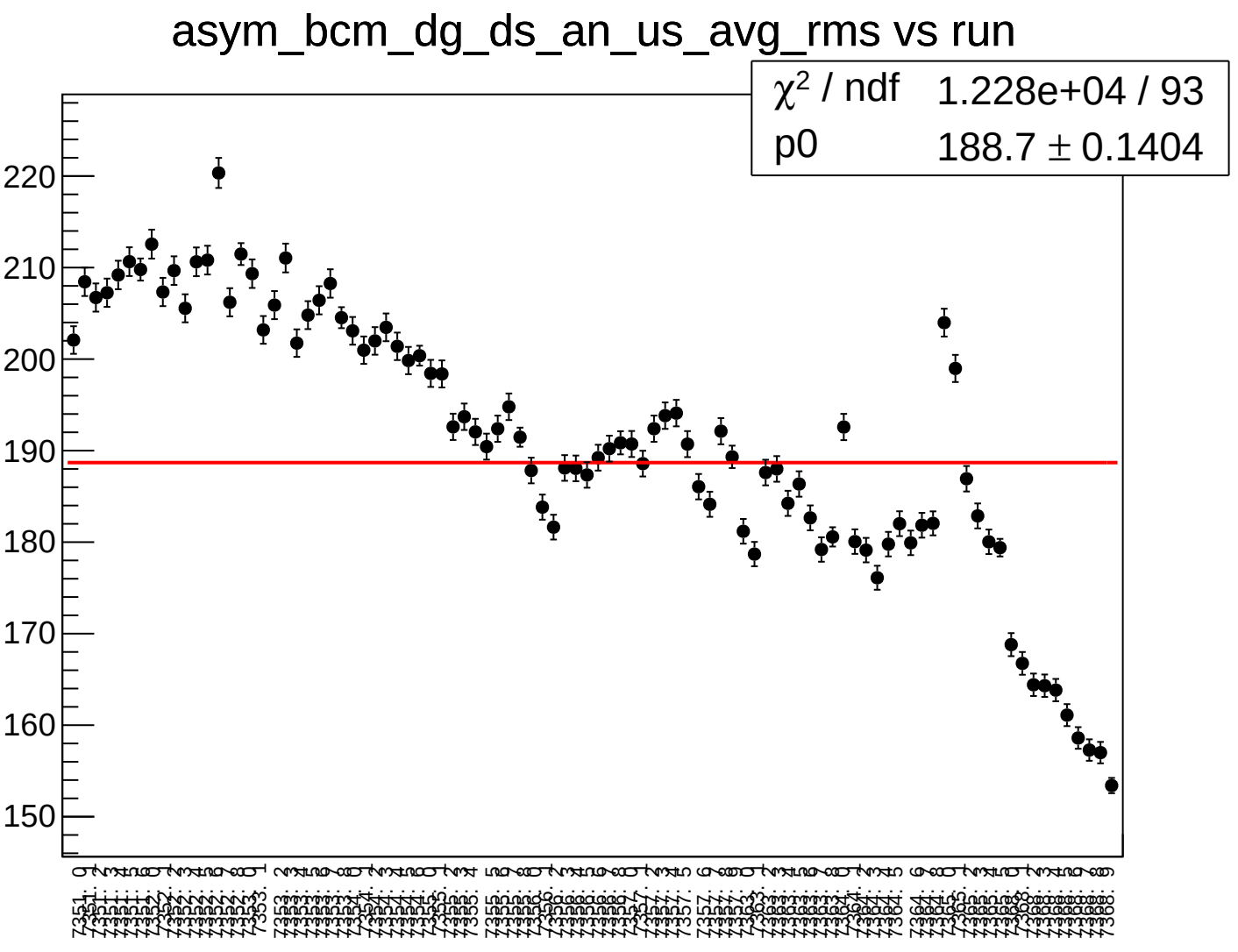

asym_bcm_dg_us_an_us_dd_mean vs run
χ² / ndf 85.33 / 93
p0 −0.4764 ± 24.04
pull
Entries 94
Mean 111.9
Std Dev 0

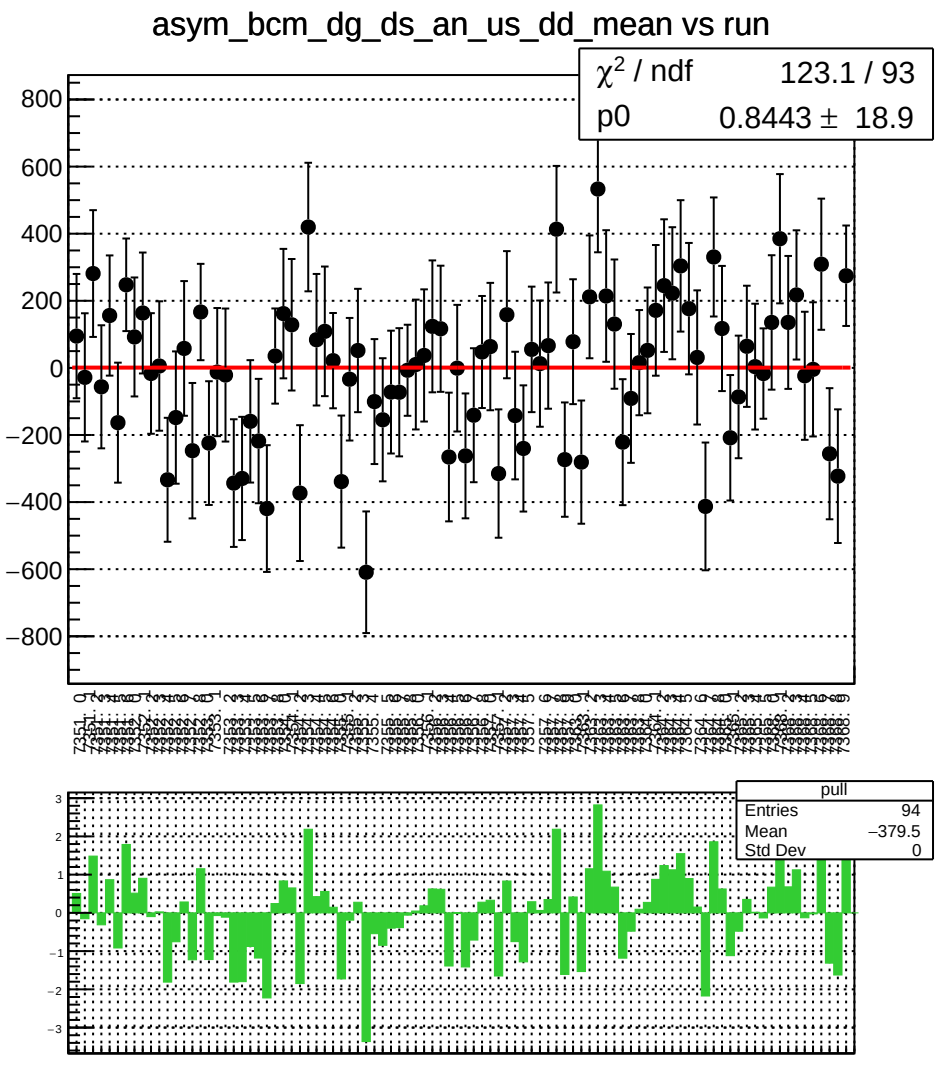

pull1D
Entries 94
Mean 0.0169
Std Dev 0.9526

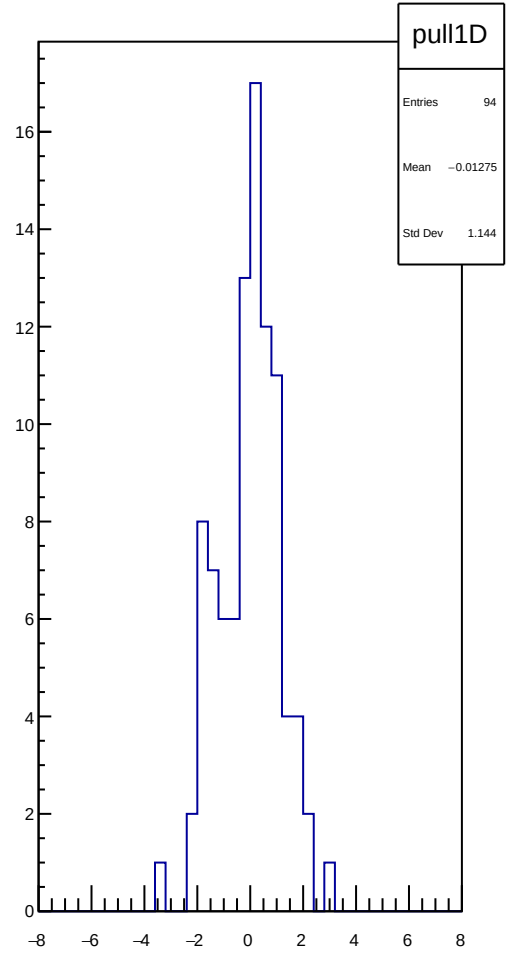

asym_bcm_dg_us_an_us_dd_rms vs run
χ² / ndf 500.5 / 93
p0 22.92 ± 0.017
24
23.5
23
22.5
22

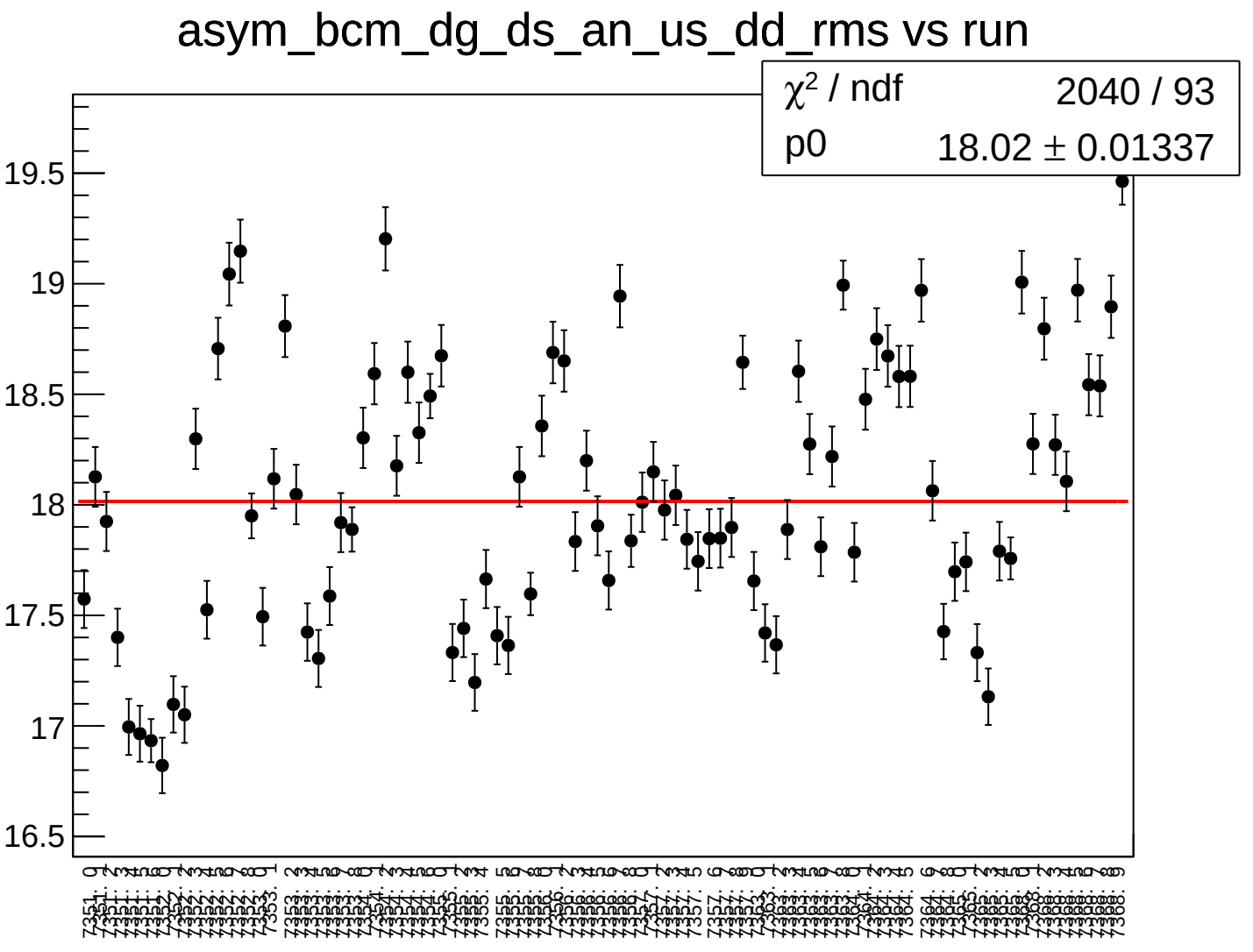

asym_bcm_dg_ds_an_us_avg_mean vs run
χ² / ndf 29.89 / 93
p0 −249.7 ± 198.5
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean 392.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

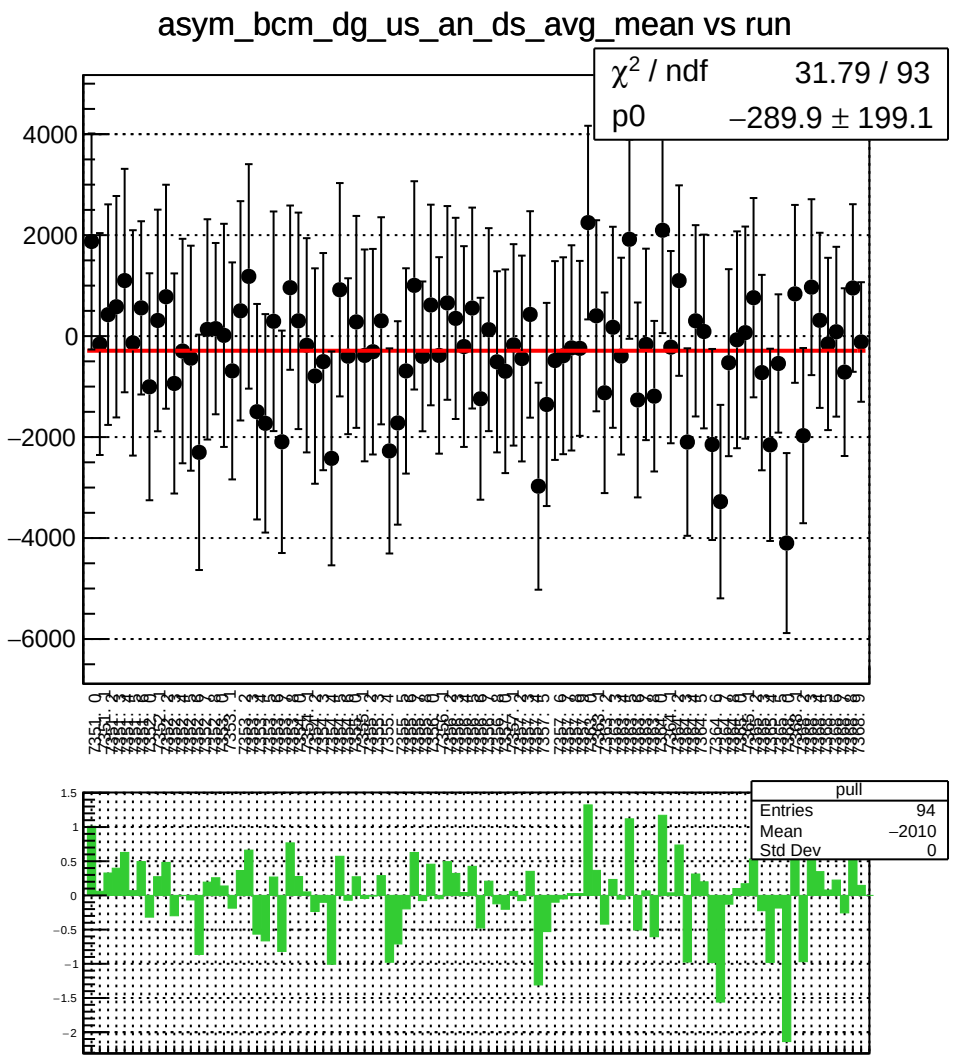

pull1D
Entries 94
Mean −0.004013
Std Dev 0.5639
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

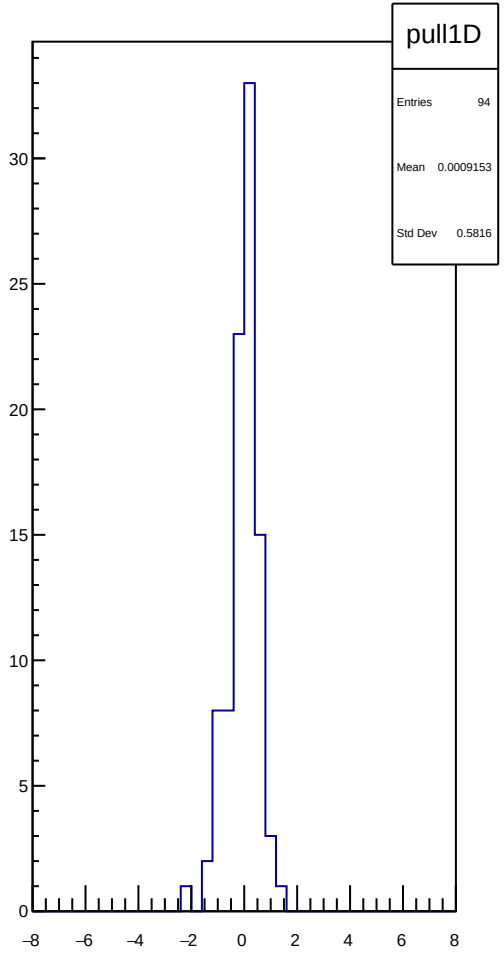

asym_bcm_dg_ds_an_us_avg_rms vs run
χ^2 / ndf 1.228e+04 / 93
p0 188.7 ± 0.1404
220
210
200
190
180
170
160
150

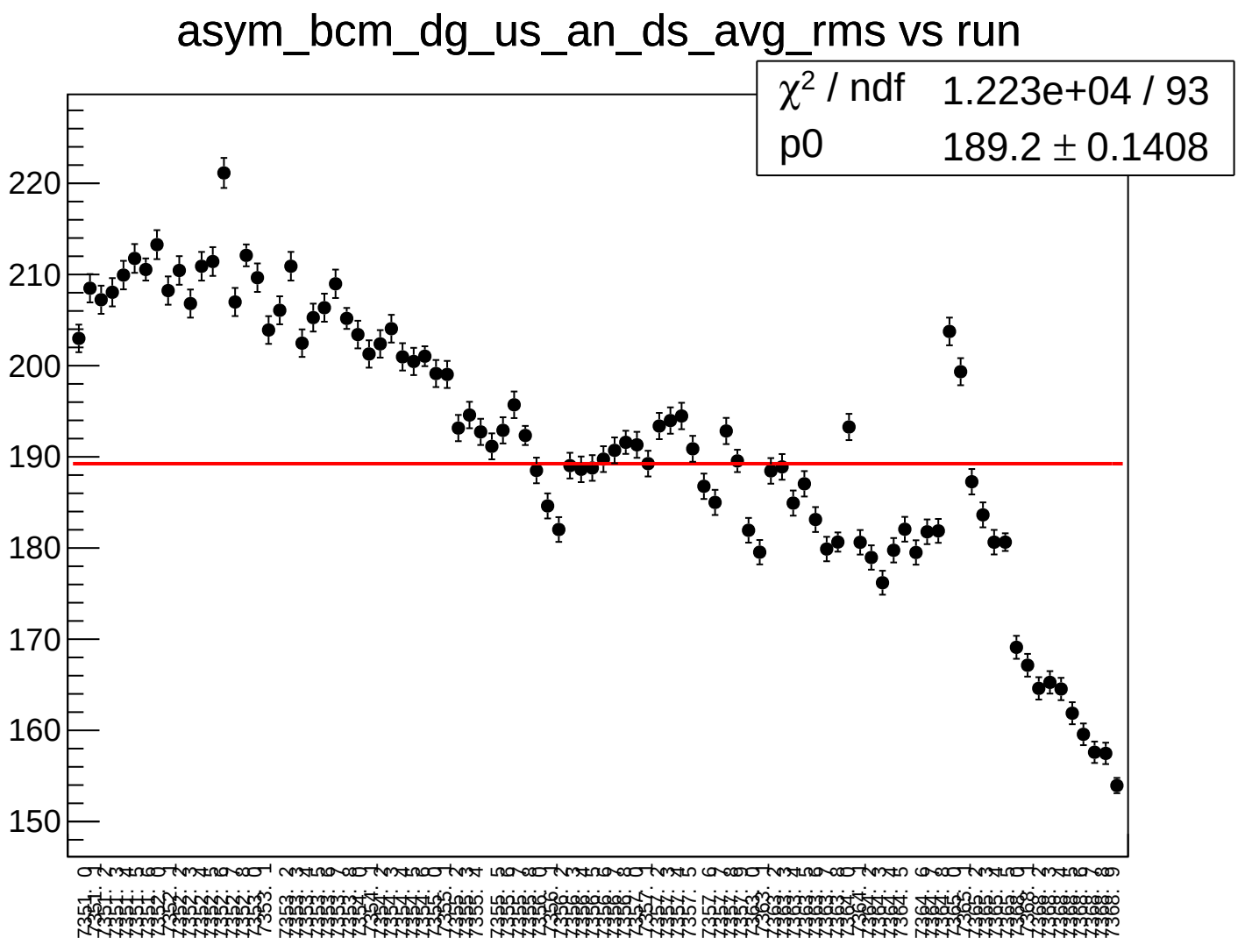

asym_bcm_dg_ds_an_us_dd_mean vs run
χ² / ndf 123.1 / 93
p0 0.8443 ± 18.9
pull
Entries 94
Mean −379.5
Std Dev 0

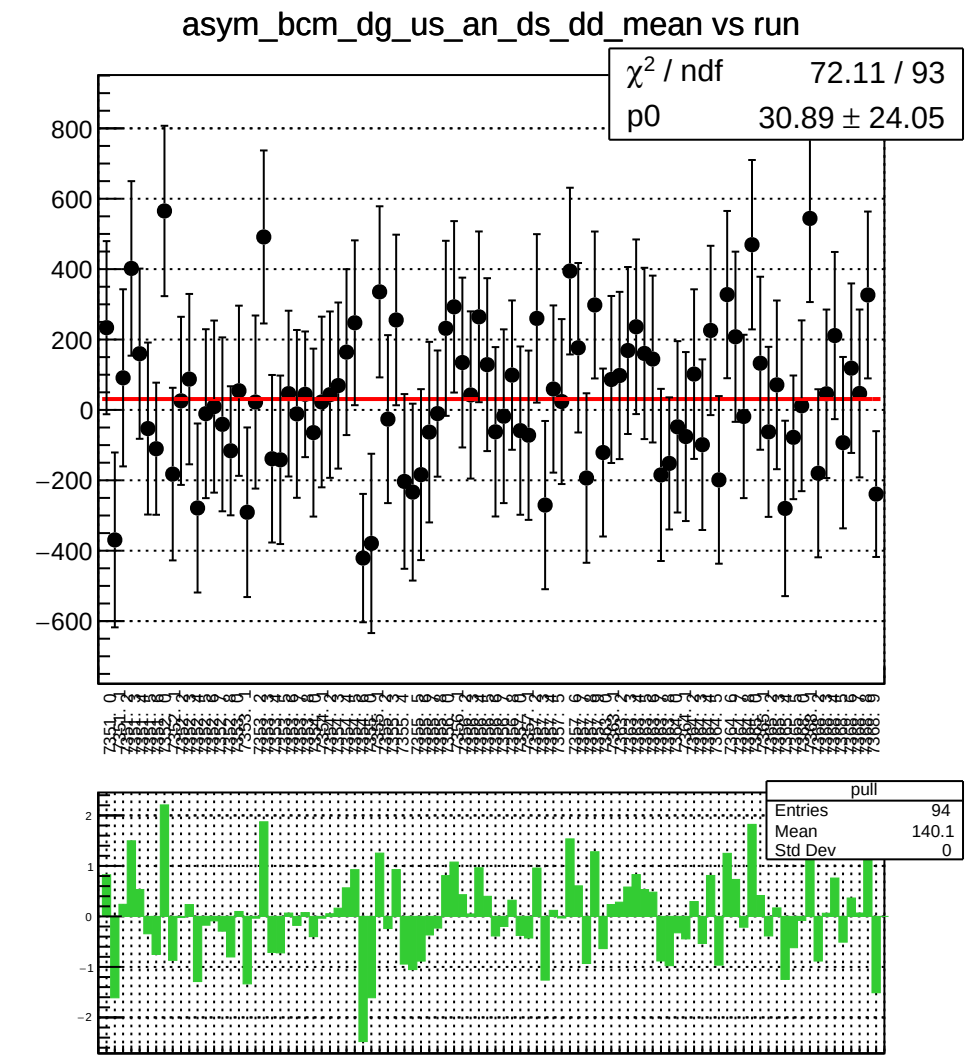

pull1D
Entries 94
Mean −0.01275
Std Dev 1.144

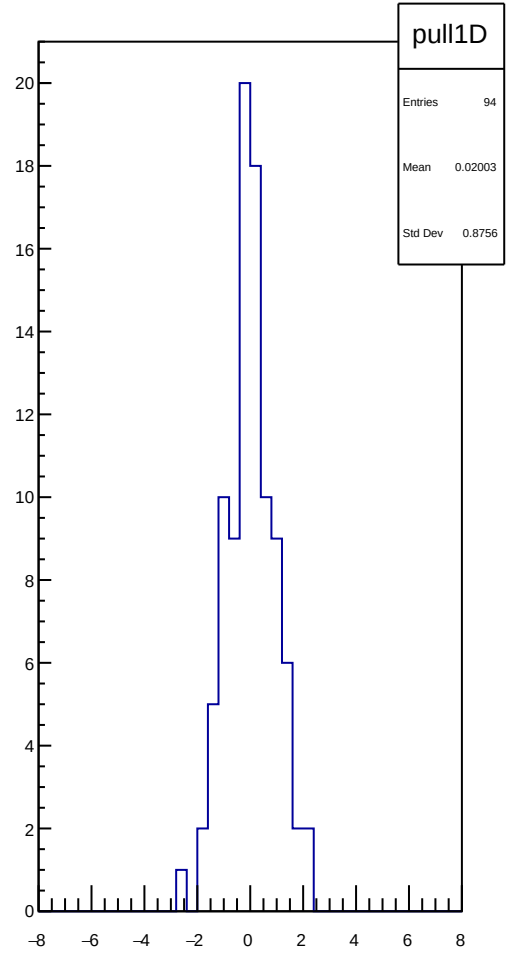

asym_bcm_dg_ds_an_us_dd_rms vs run
χ^2 / ndf 2040 / 93
p0 18.02 ± 0.01337
19.5
19
18.5
18
17.5
17
16.5

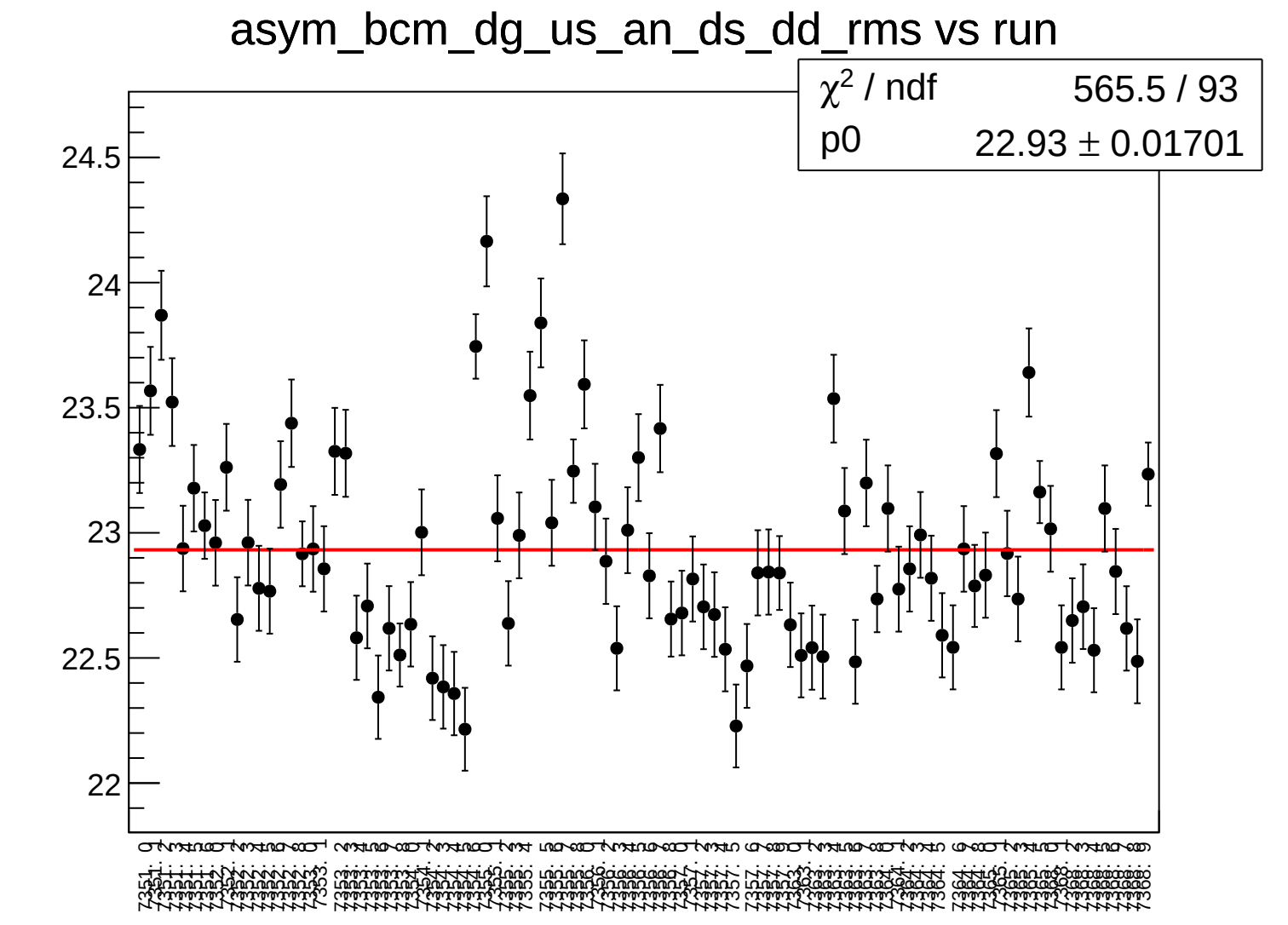

asym_bcm_dg_us_an_ds_avg_mean vs run
χ² / ndf 31.79 / 93
p0 −289.9 ± 199.1
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean −2010
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

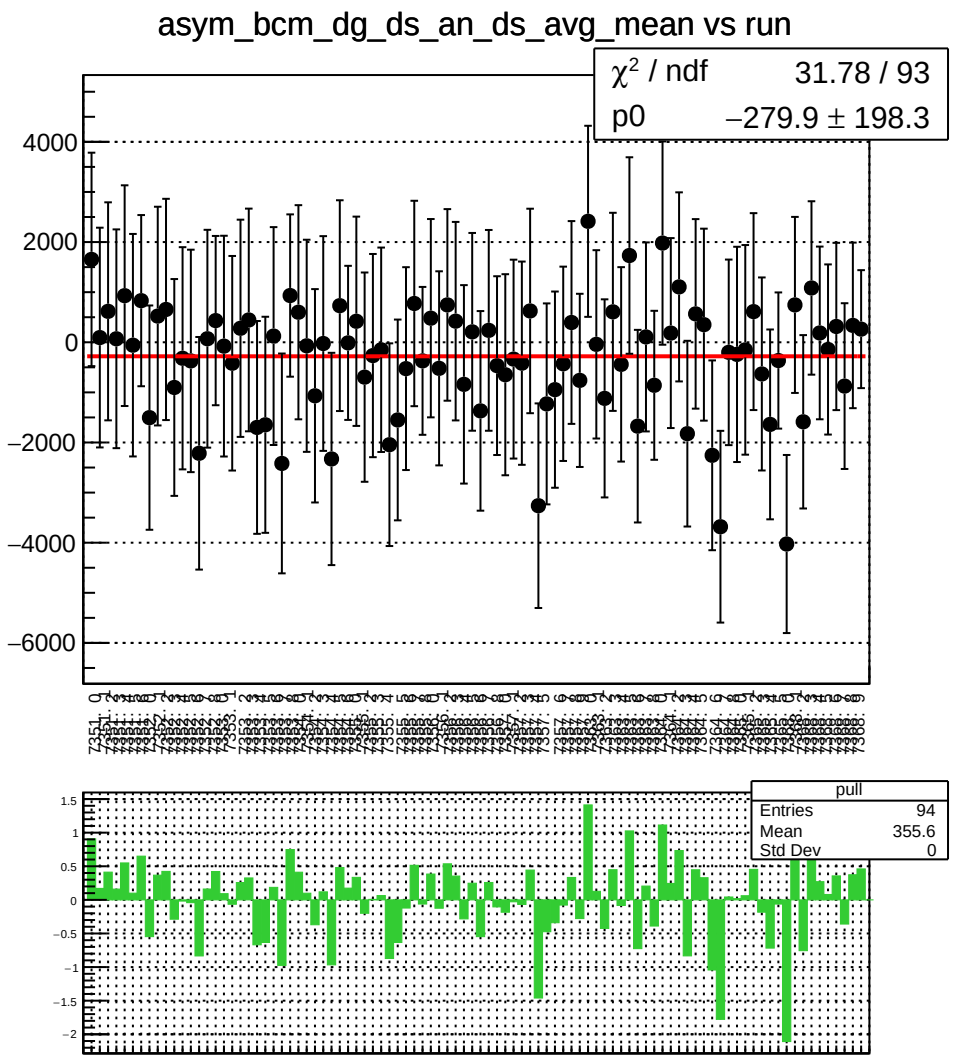

pull1D
Entries 94
Mean 0.0009153
Std Dev 0.5816
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

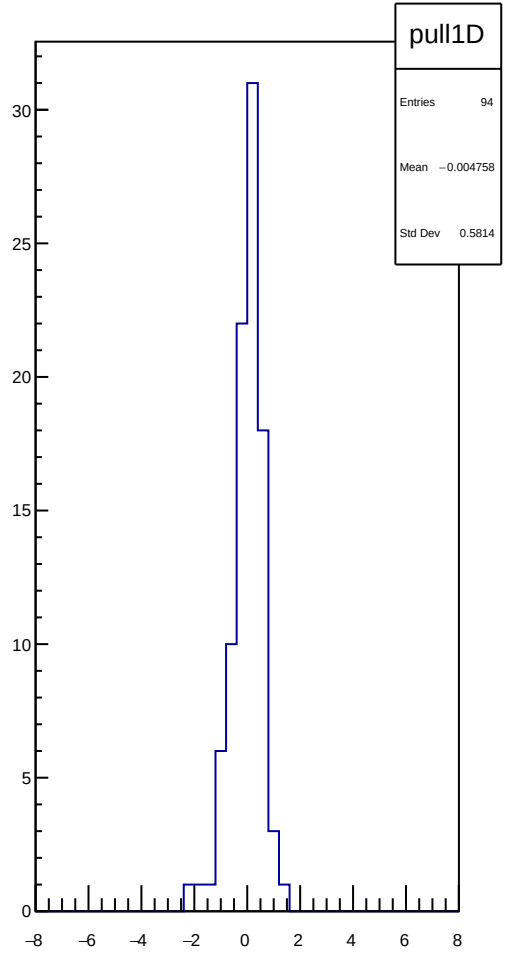

asym_bcm_dg_us_an_ds_avg_rms vs run
χ² / ndf 1.223e+04 / 93
p0 189.2 ± 0.1408
220
210
200
190
180
170
160
150

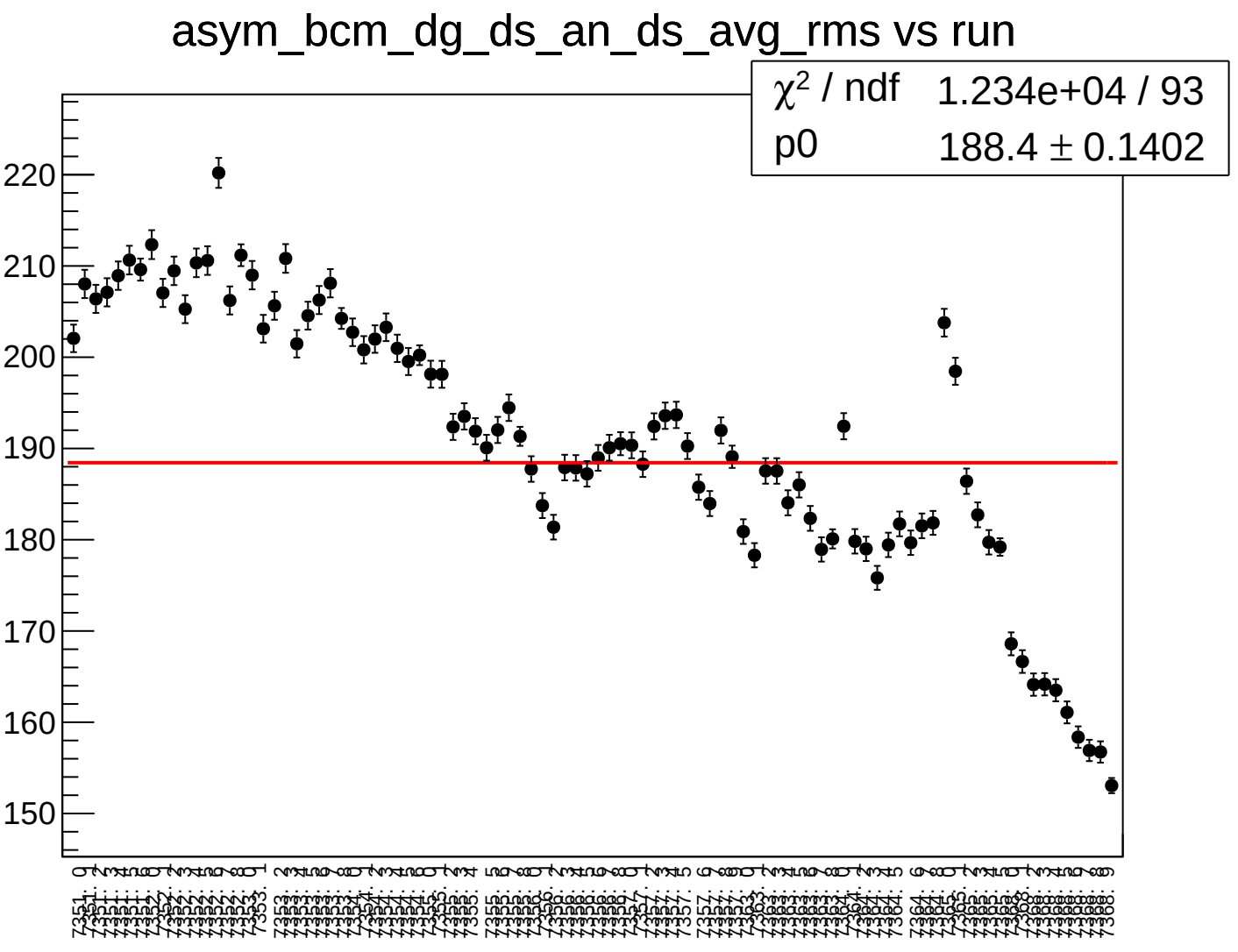

asym_bcm_dg_us_an_ds_dd_mean vs run
χ² / ndf 72.11 / 93
p0 30.89 ± 24.05
pull
Entries 94
Mean 140.1
Std Dev 0

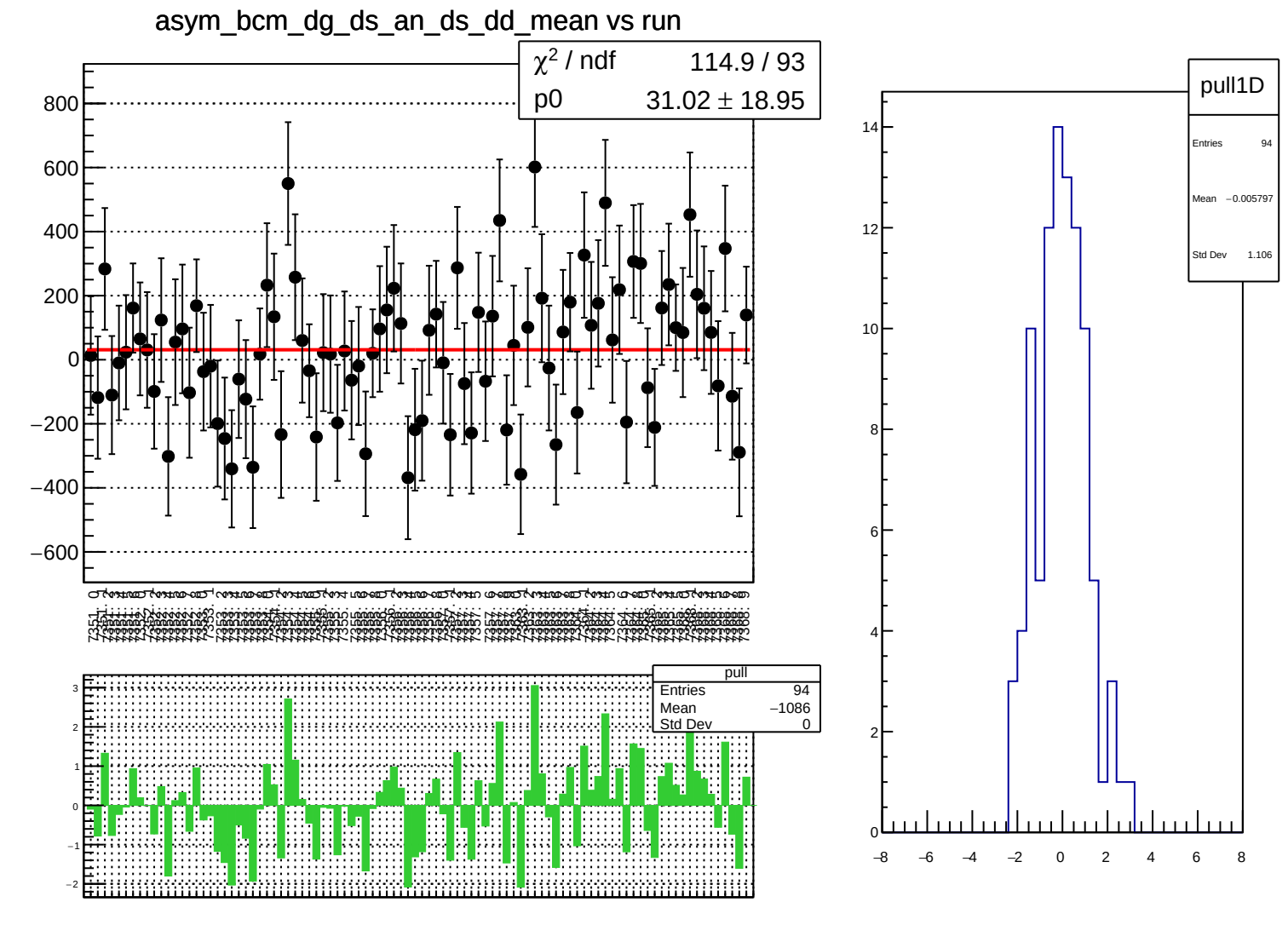

pull1D
Entries 94
Mean 0.02003
Std Dev 0.8756


asym_bcm_dg_us_an_ds_dd_rms vs run
χ² / ndf 565.5 / 93
p0 22.93 ± 0.01701
24.5
24
23.5
23
22.5
22

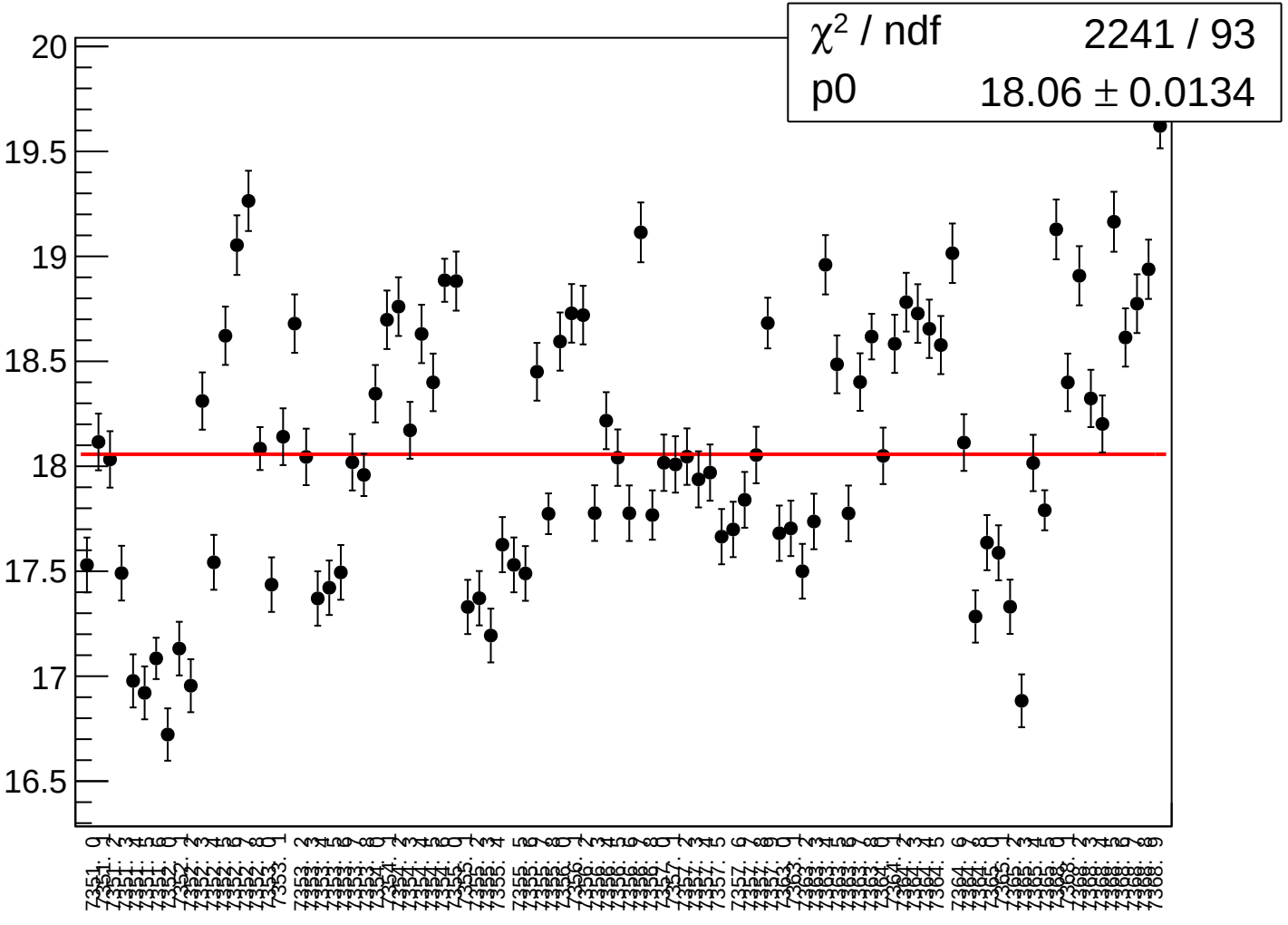

asym_bcm_dg_ds_an_ds_avg_mean vs run
χ² / ndf 31.78 / 93
p0 −279.9 ± 198.3
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean 355.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

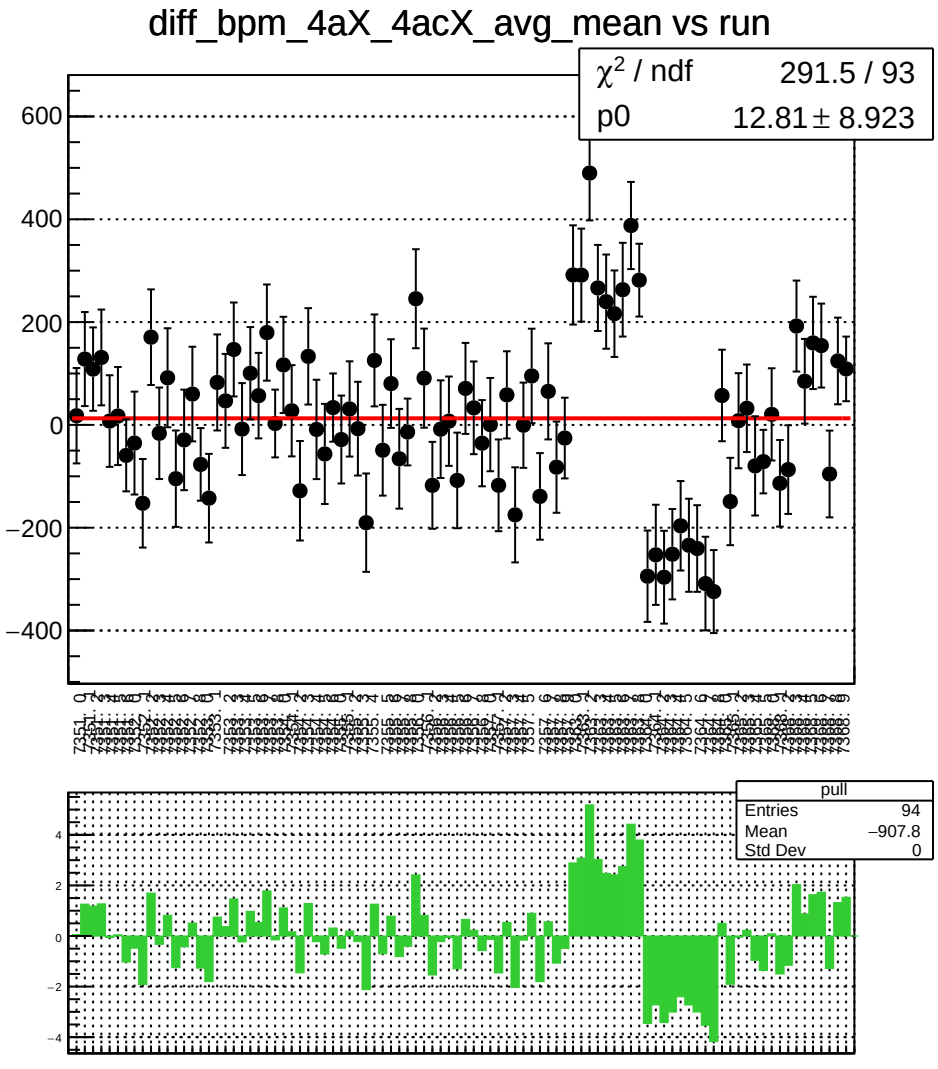

pull1D
Entries 94
Mean −0.004758
Std Dev 0.5814
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

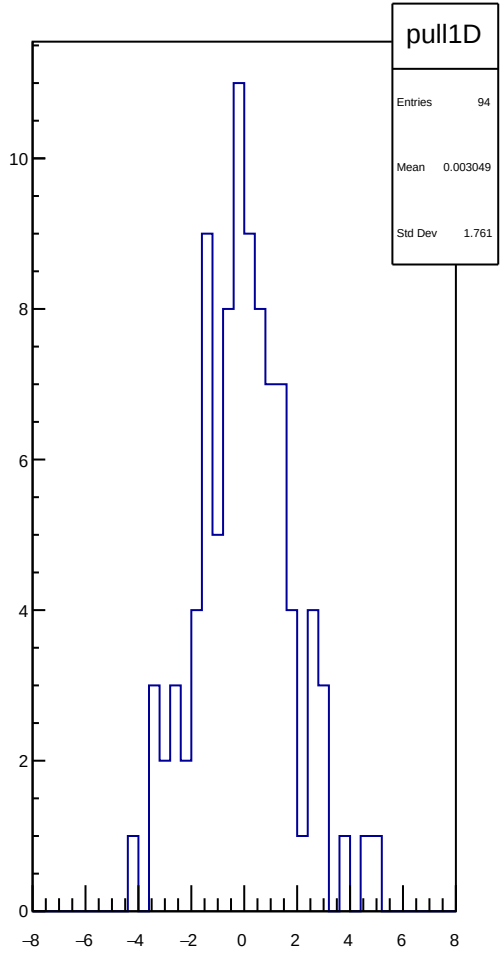

asym_bcm_dg_ds_an_ds_avg_rms vs run
χ^2 / ndf 1.234e+04 / 93
p0 188.4 ± 0.1402
220
210
200
190
180
170
160
150

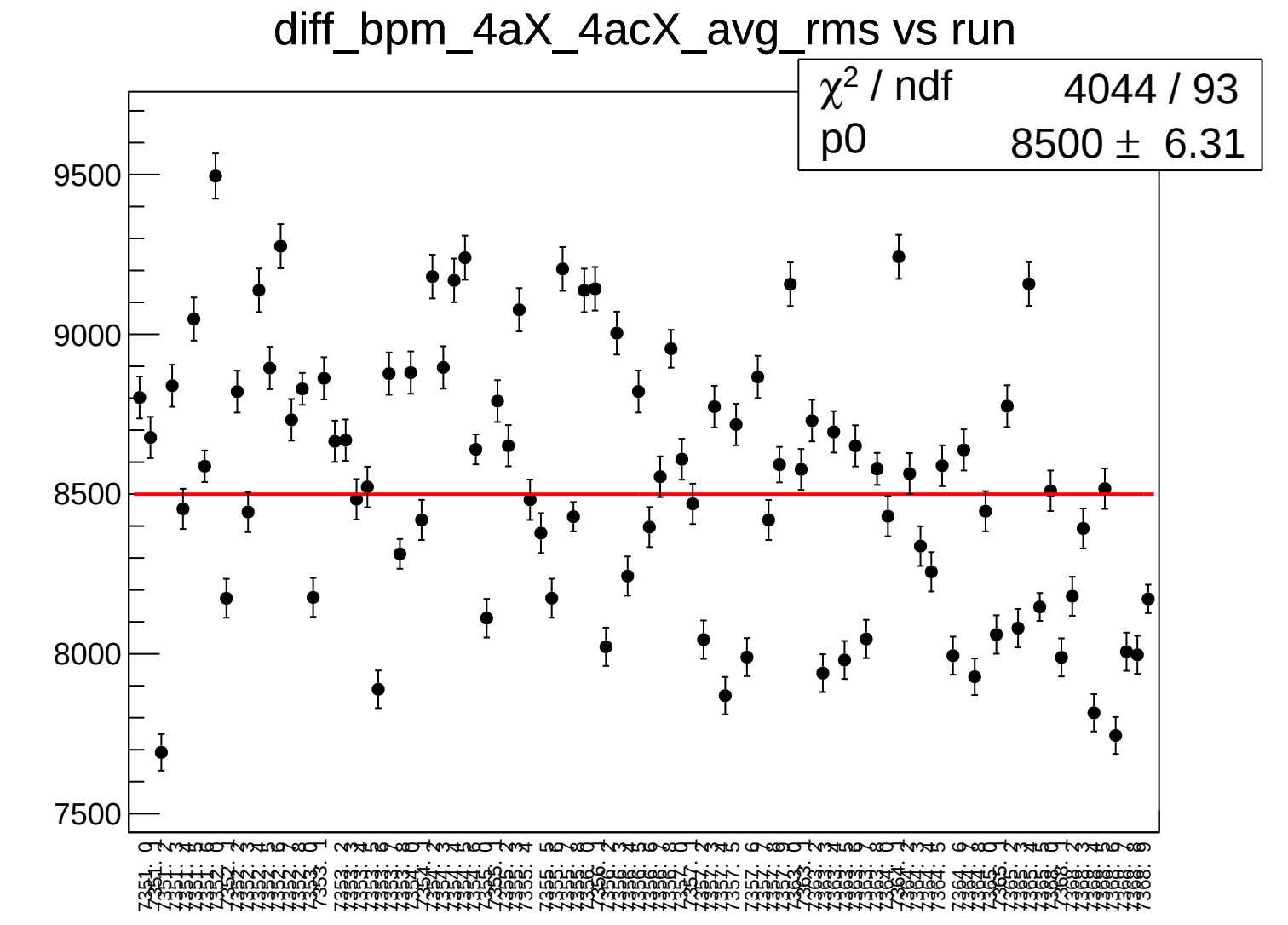

asym_bcm_dg_ds_an_ds_dd_mean vs run
χ² / ndf 114.9 / 93
p0 31.02 ± 18.95
pull
Entries 94
Mean −1086
Std Dev 0
pull1D
Entries 94
Mean −0.005797
Std Dev 1.106

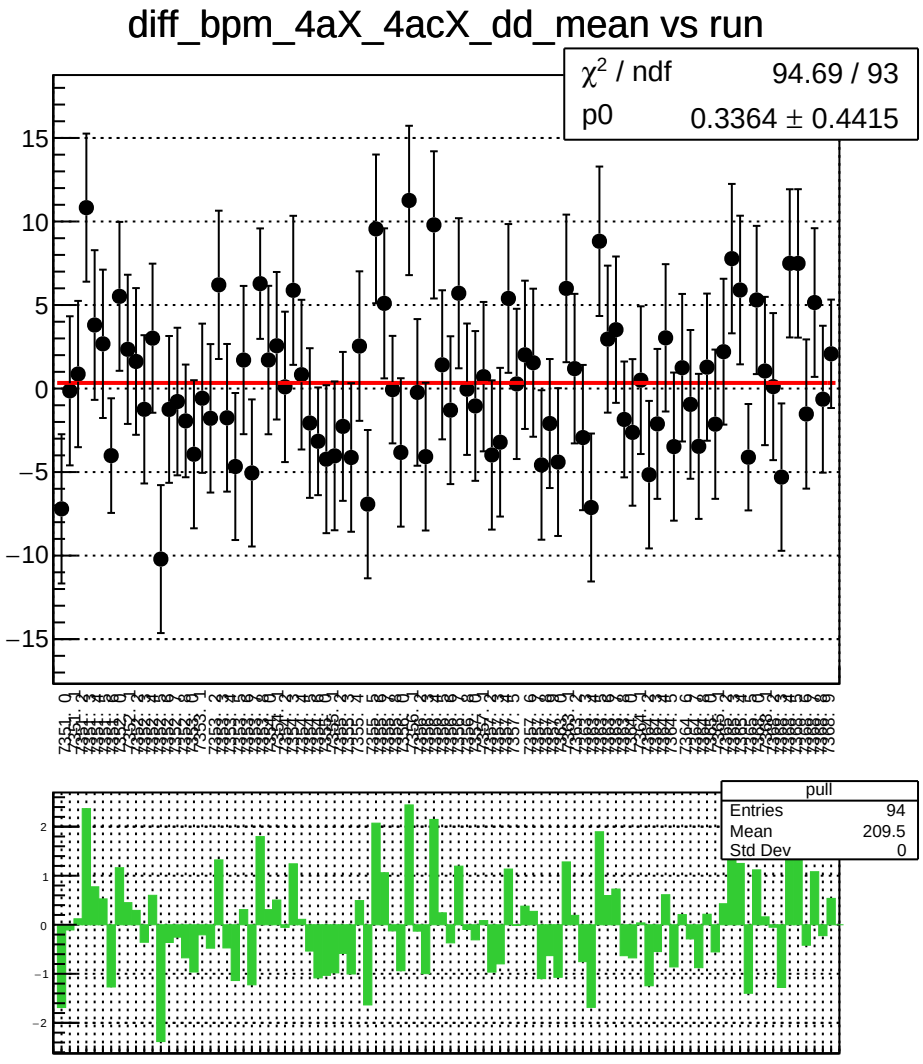
asym_bcm_dg_ds_an_ds_dd_rms vs run

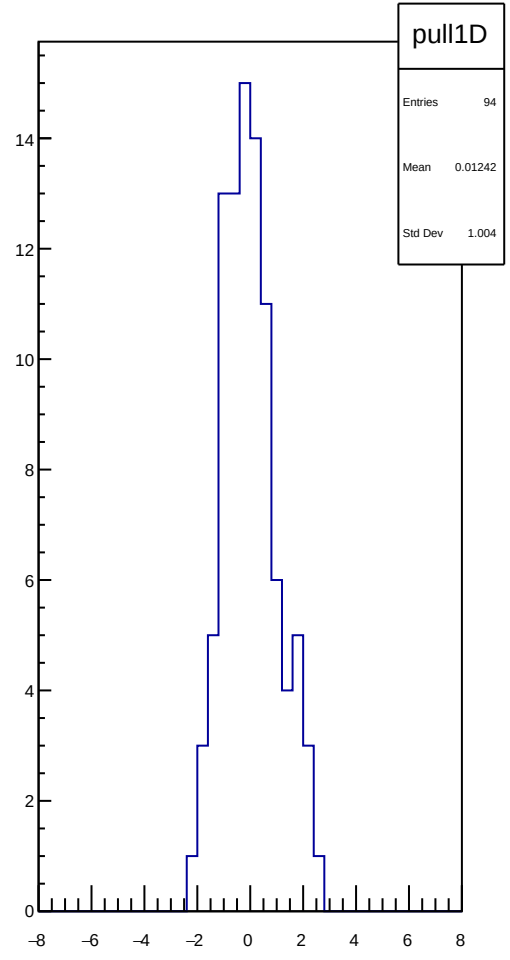


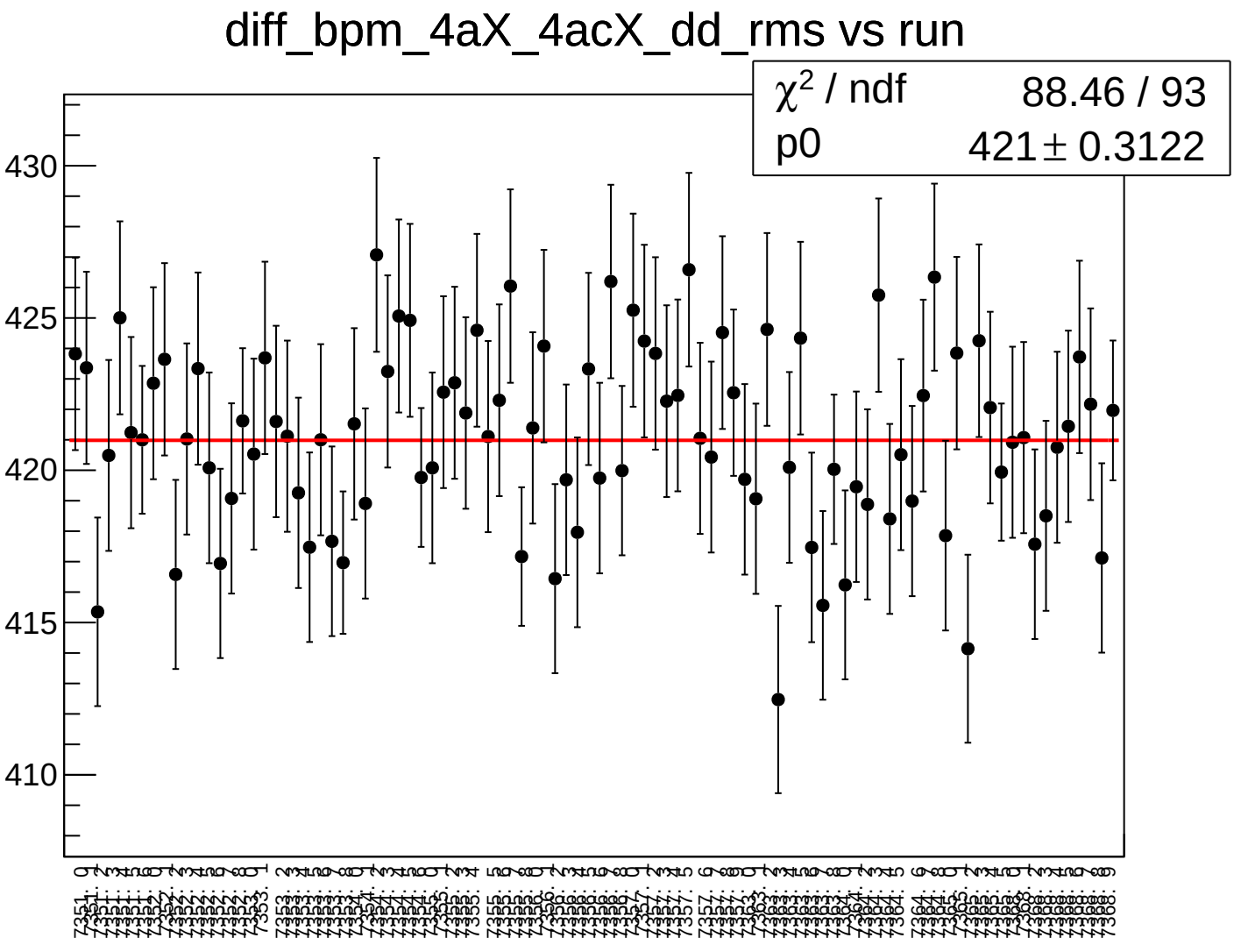

diff_bpm_4aX_4acX_avg_mean vs run
χ^2 / ndf 291.5 / 93
p0 12.81 ± 8.923
600
400
200
0
−200
−400
pull
Entries 94
Mean −907.8
Std Dev 0
4
2
0
−2
−4

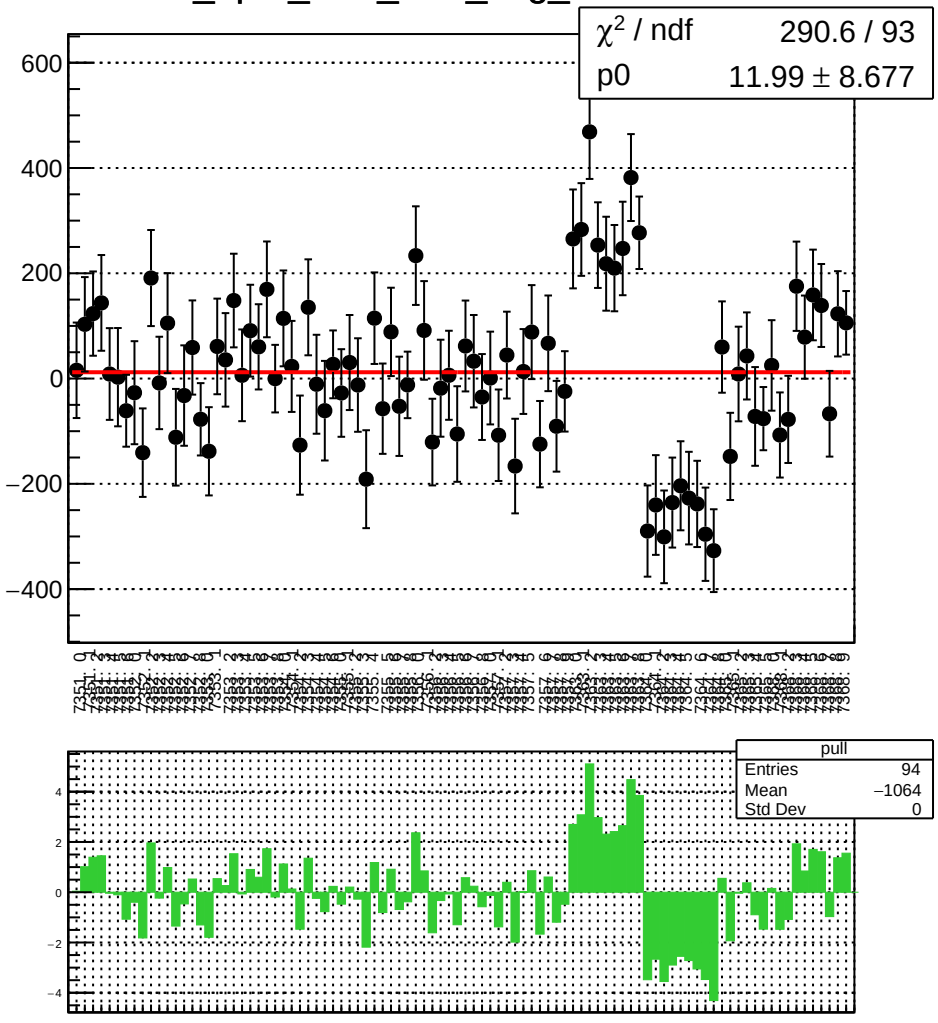

pull1D
Entries 94
Mean 0.003049
Std Dev 1.761
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

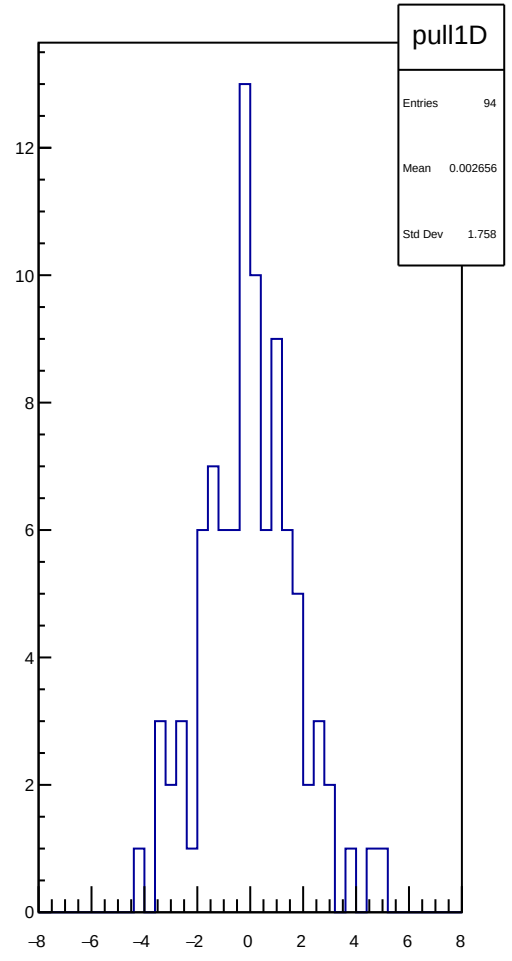

diff_bpm_4aX_4acX_avg_rms vs run
χ² / ndf 4044 / 93
p0 8500 ± 6.31
9500
9000
8500
8000
7500

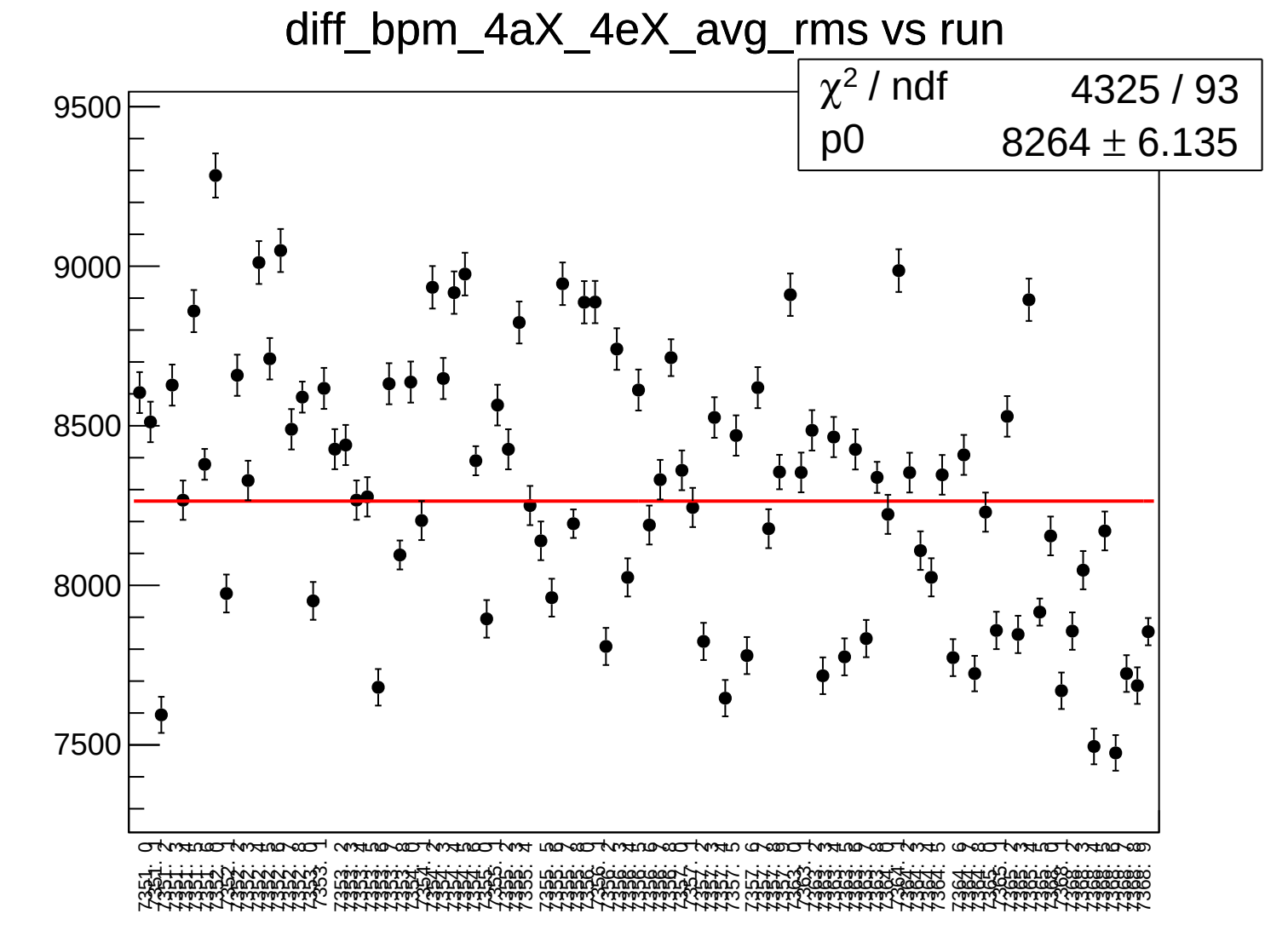

diff_bpm_4aX_4acX_dd_mean vs run
χ² / ndf 94.69 / 93
p0 0.3364 ± 0.4415
pull
Entries 94
Mean 209.5
Std Dev 0

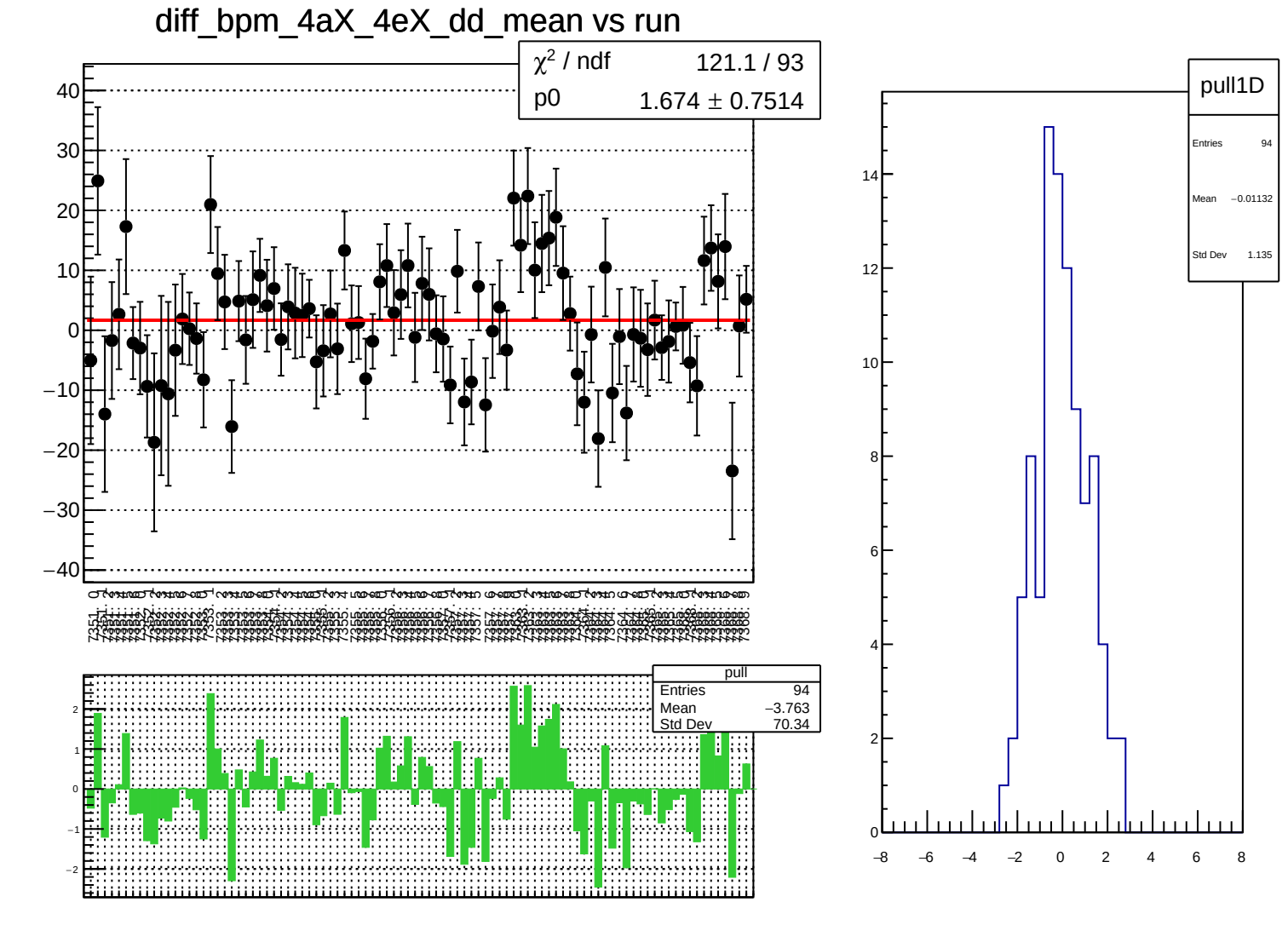

pull1D
Entries 94
Mean 0.01242
Std Dev 1.004

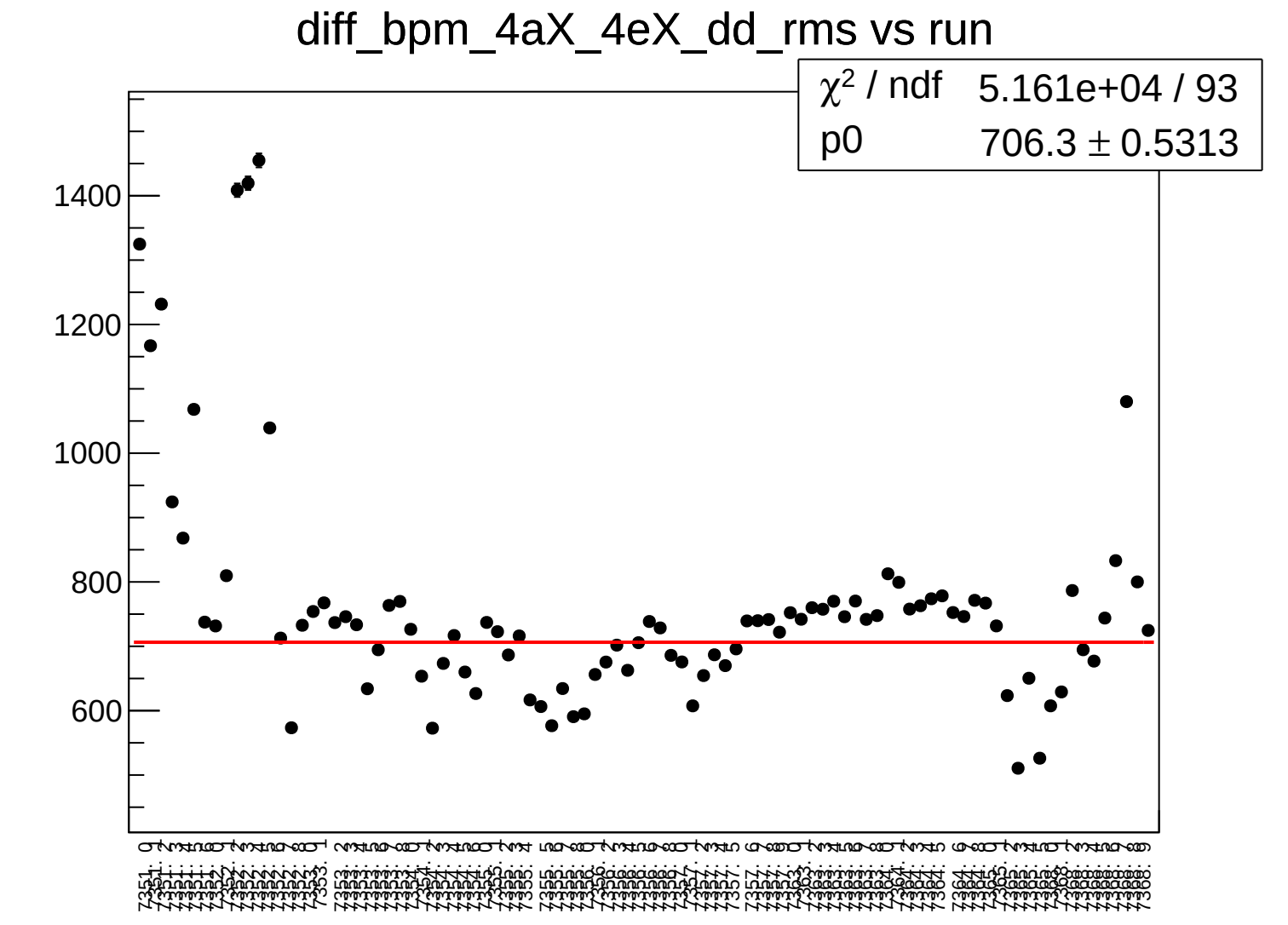

diff_bpm_4aX_4acX_dd_rms vs run
χ² / ndf 88.46 / 93
p0 421 ± 0.3122
430
425
420
415
410

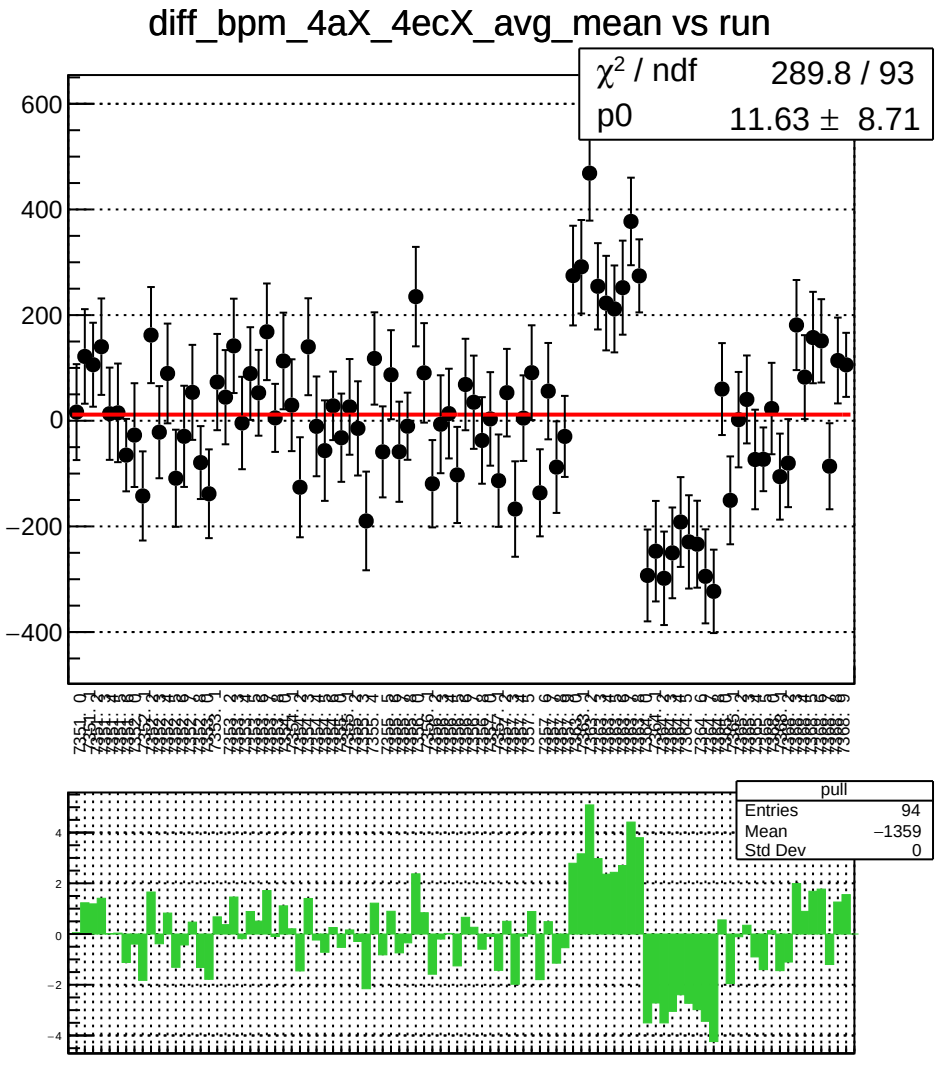

diff_bpm_4aX_4eX_avg_mean vs run
χ² / ndf 290.6 / 93
p0 11.99 ± 8.677
600
400
200
0
−200
−400
pull
Entries 94
Mean −1064
Std Dev 0
4
2
0
−2
−4

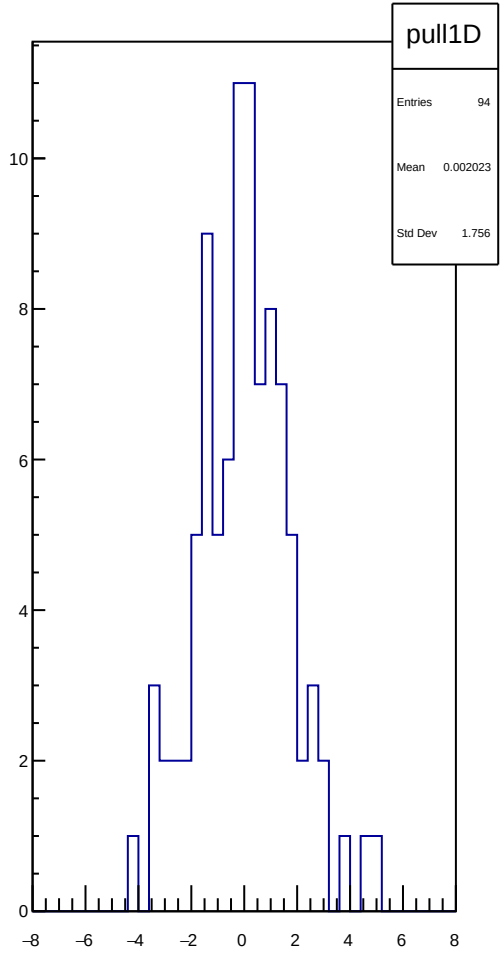

pull1D
Entries 94
Mean 0.002656
Std Dev 1.758
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

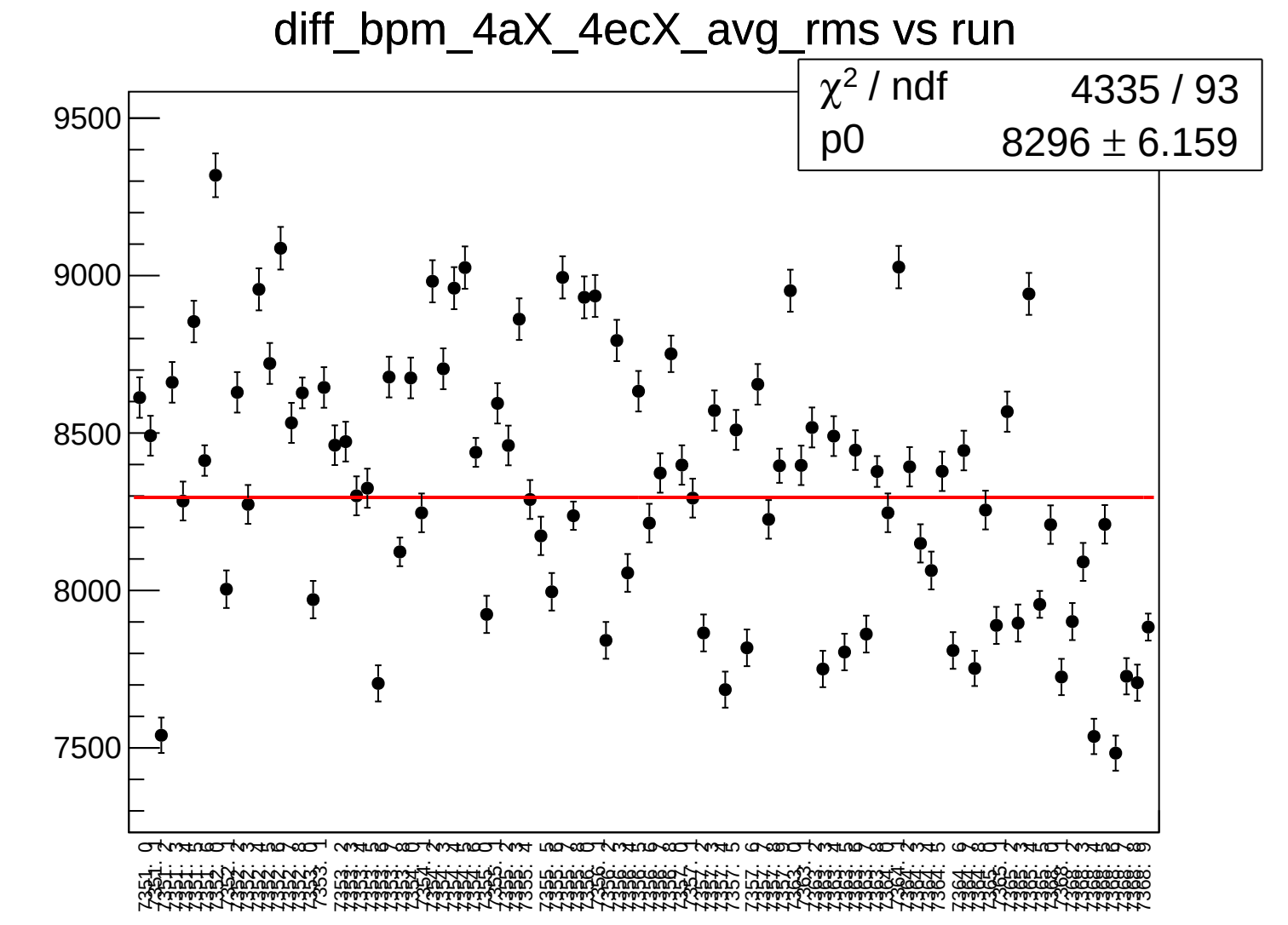

diff_bpm_4aX_4eX_avg_rms vs run
χ² / ndf 4325 / 93
p0 8264 ± 6.135
9500
9000
8500
8000
7500

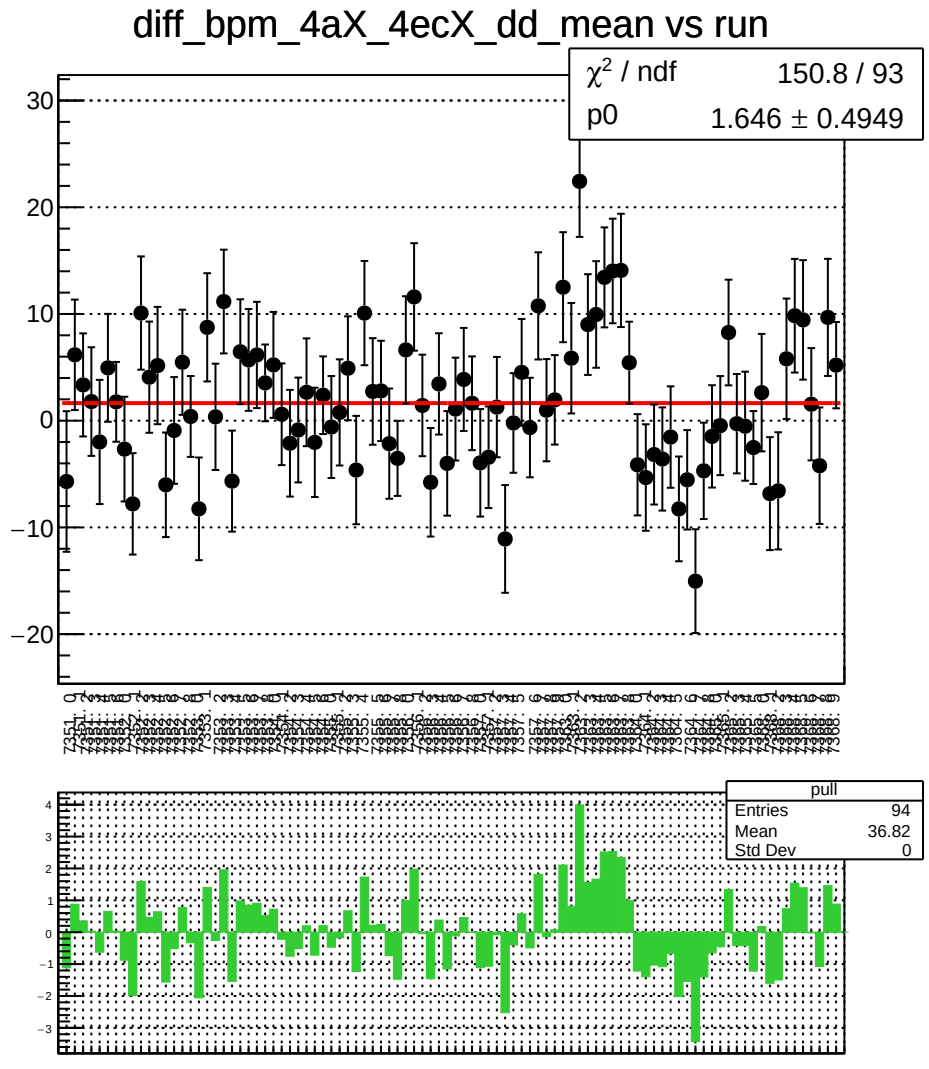

diff_bpm_4aX_4eX_dd_mean vs run
χ² / ndf 121.1 / 93
p0 1.674 ± 0.7514
pull
Entries 94
Mean −3.763
Std Dev 70.34
pull1D
Entries 94
Mean −0.01132
Std Dev 1.135

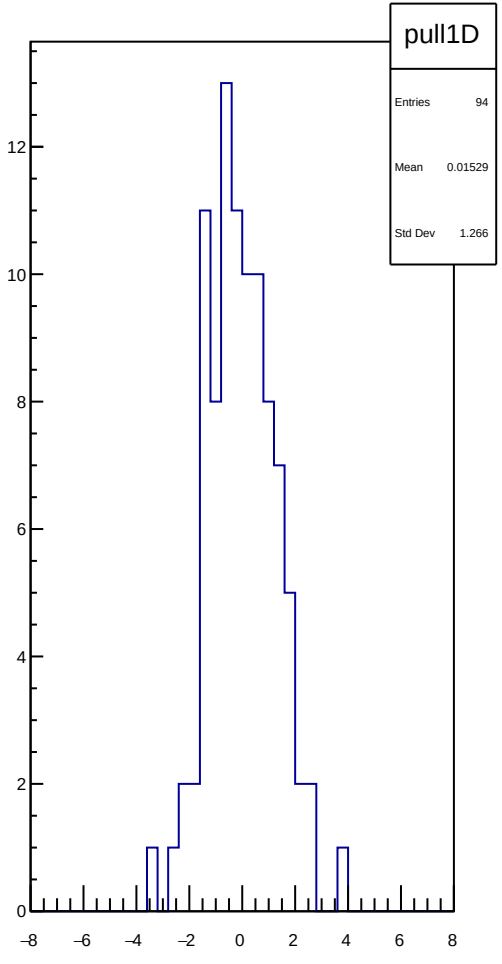

diff_bpm_4aX_4eX_dd_rms vs run
χ² / ndf 5.161e+04 / 93
p0 706.3 ± 0.5313
1400
1200
1000
800
600

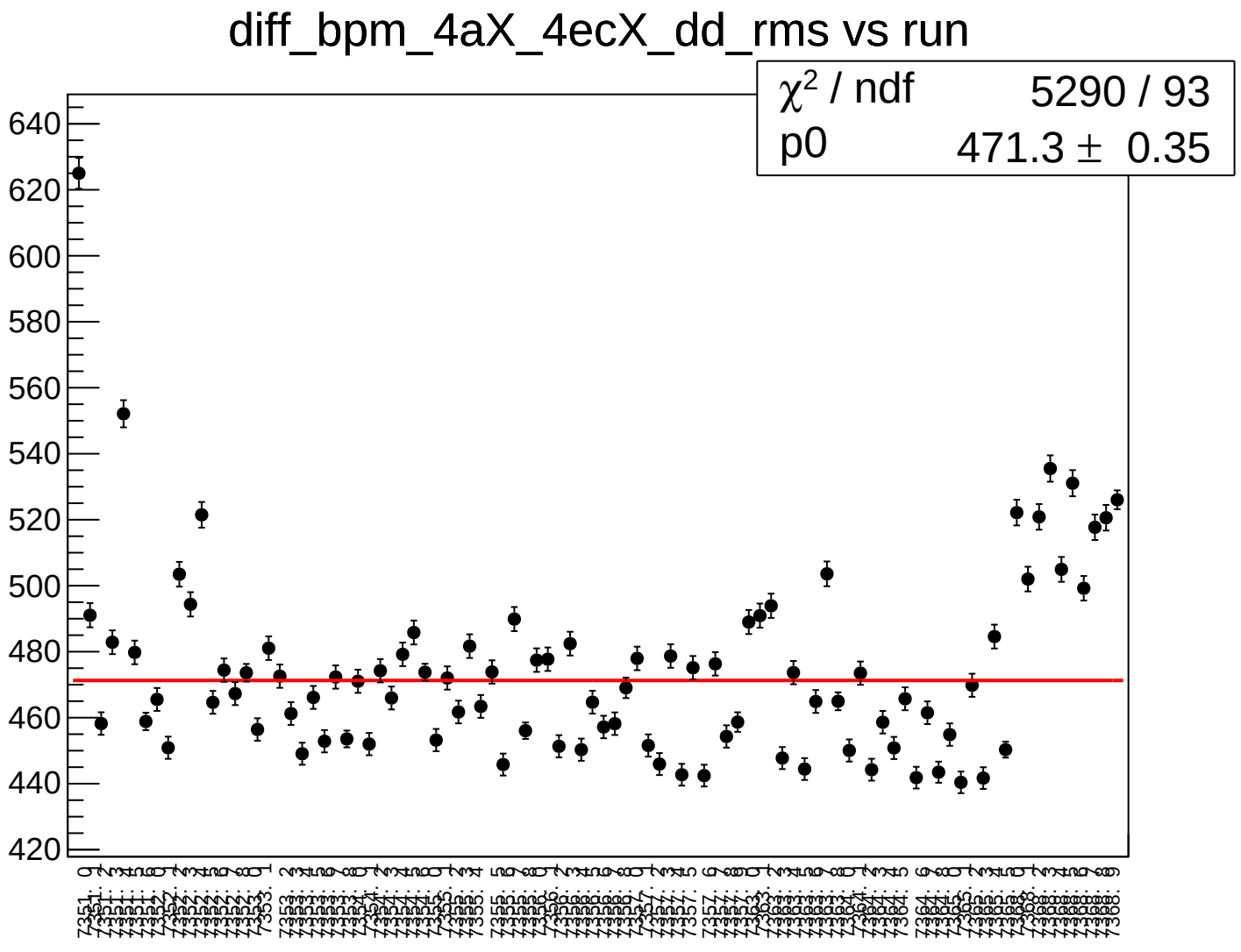

diff_bpm_4aX_4ecX_avg_mean vs run
χ² / ndf 289.8 / 93
p0 11.63 ± 8.71
600
400
200
0
−200
−400
pull
Entries 94
Mean −1359
Std Dev 0
4
2
0
−2
−4

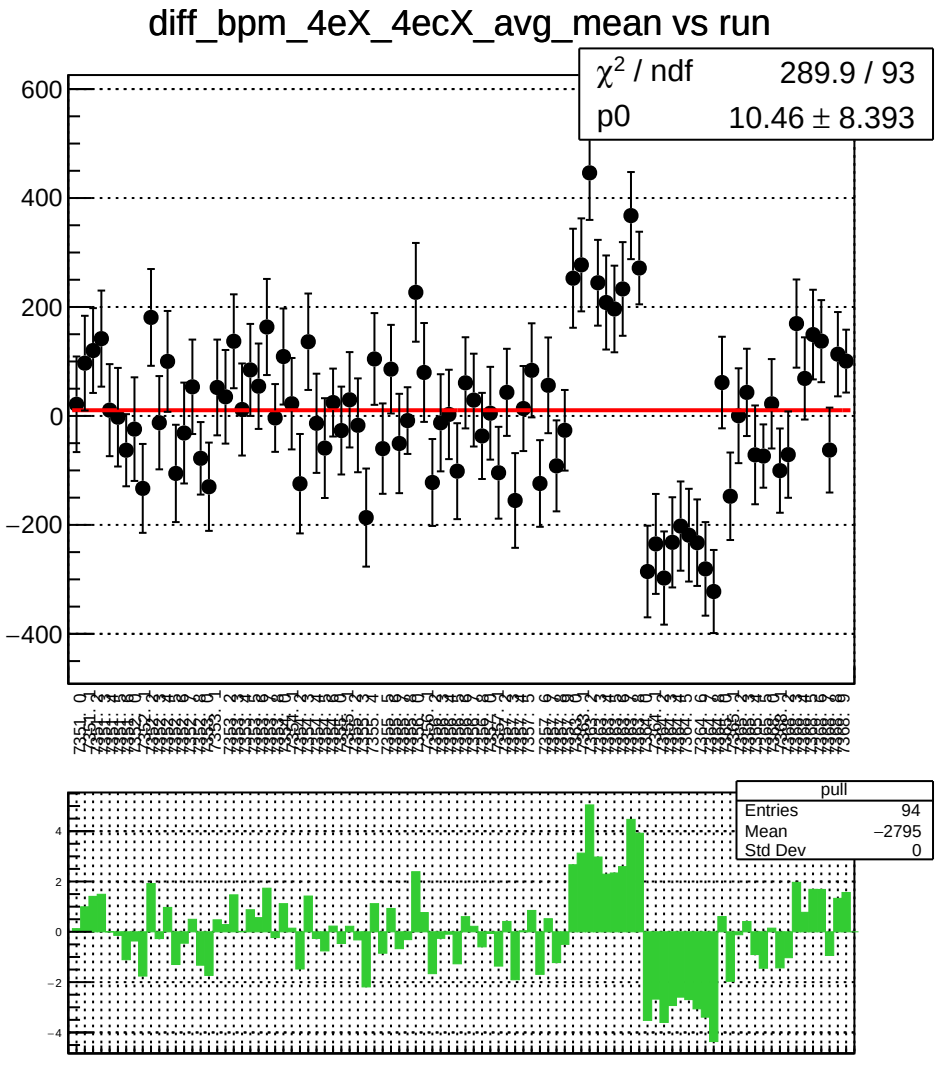

pull1D
Entries 94
Mean 0.002023
Std Dev 1.756
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

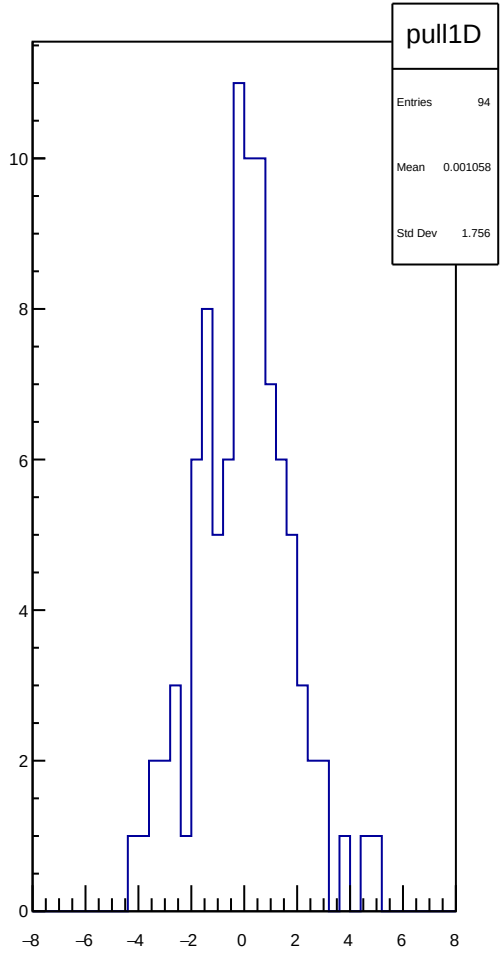

diff_bpm_4aX_4ecX_avg_rms vs run
χ^2 / ndf 4335 / 93
p0 8296 ± 6.159
9500
9000
8500
8000
7500

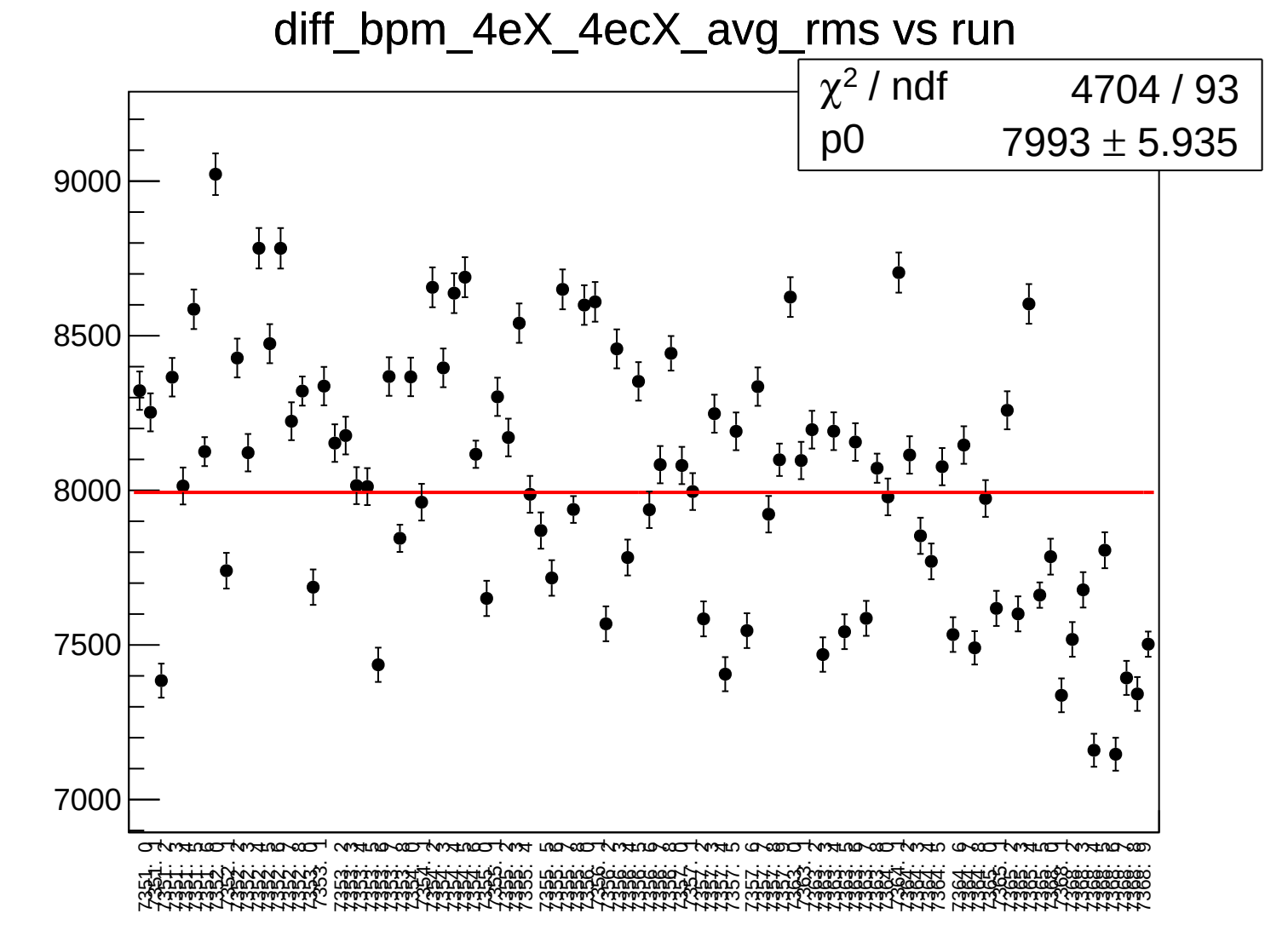

diff_bpm_4aX_4ecX_dd_mean vs run
χ² / ndf 150.8 / 93
p0 1.646 ± 0.4949
pull
Entries 94
Mean 36.82
Std Dev 0

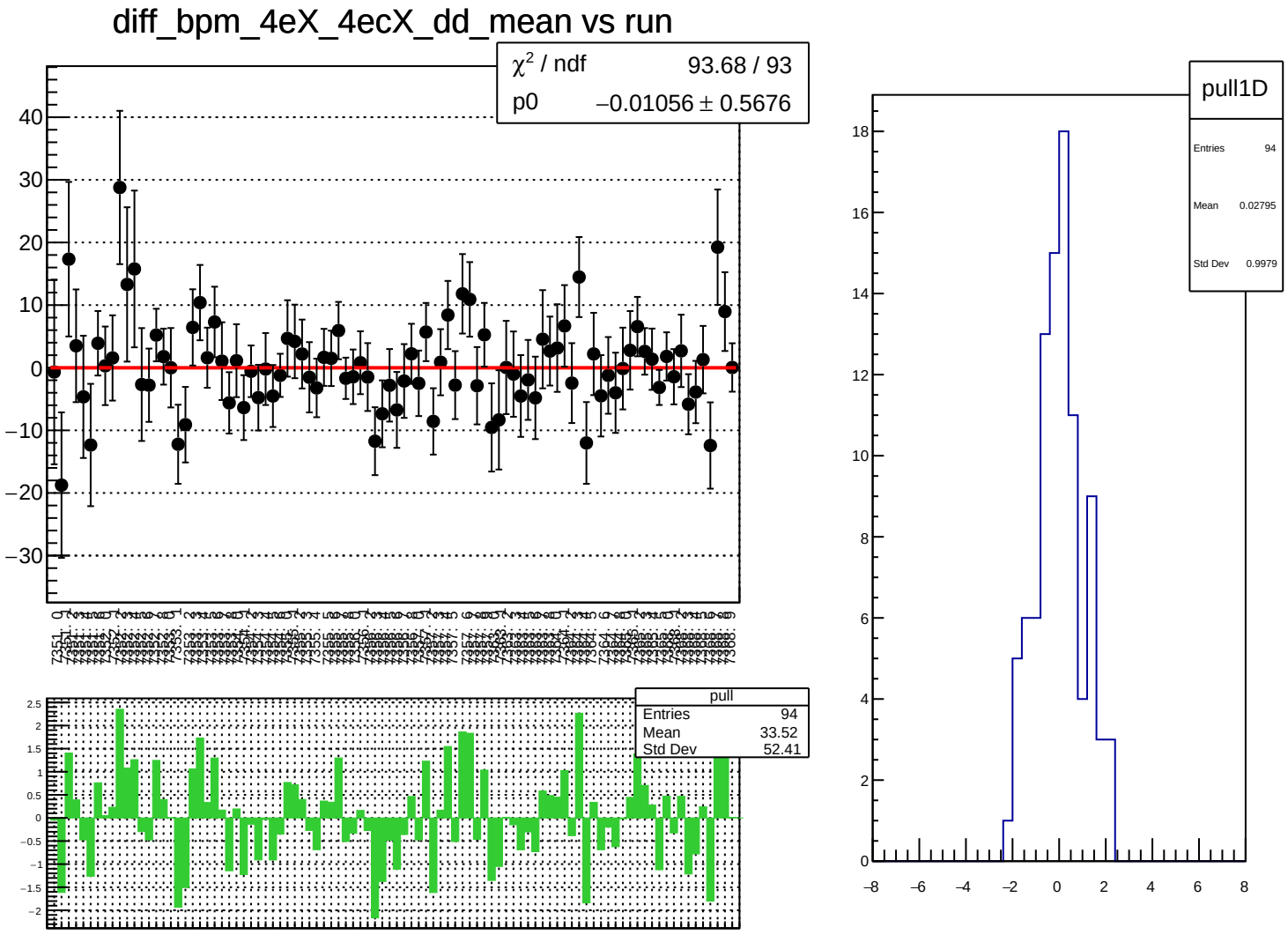

pull1D
Entries 94
Mean 0.01529
Std Dev 1.266

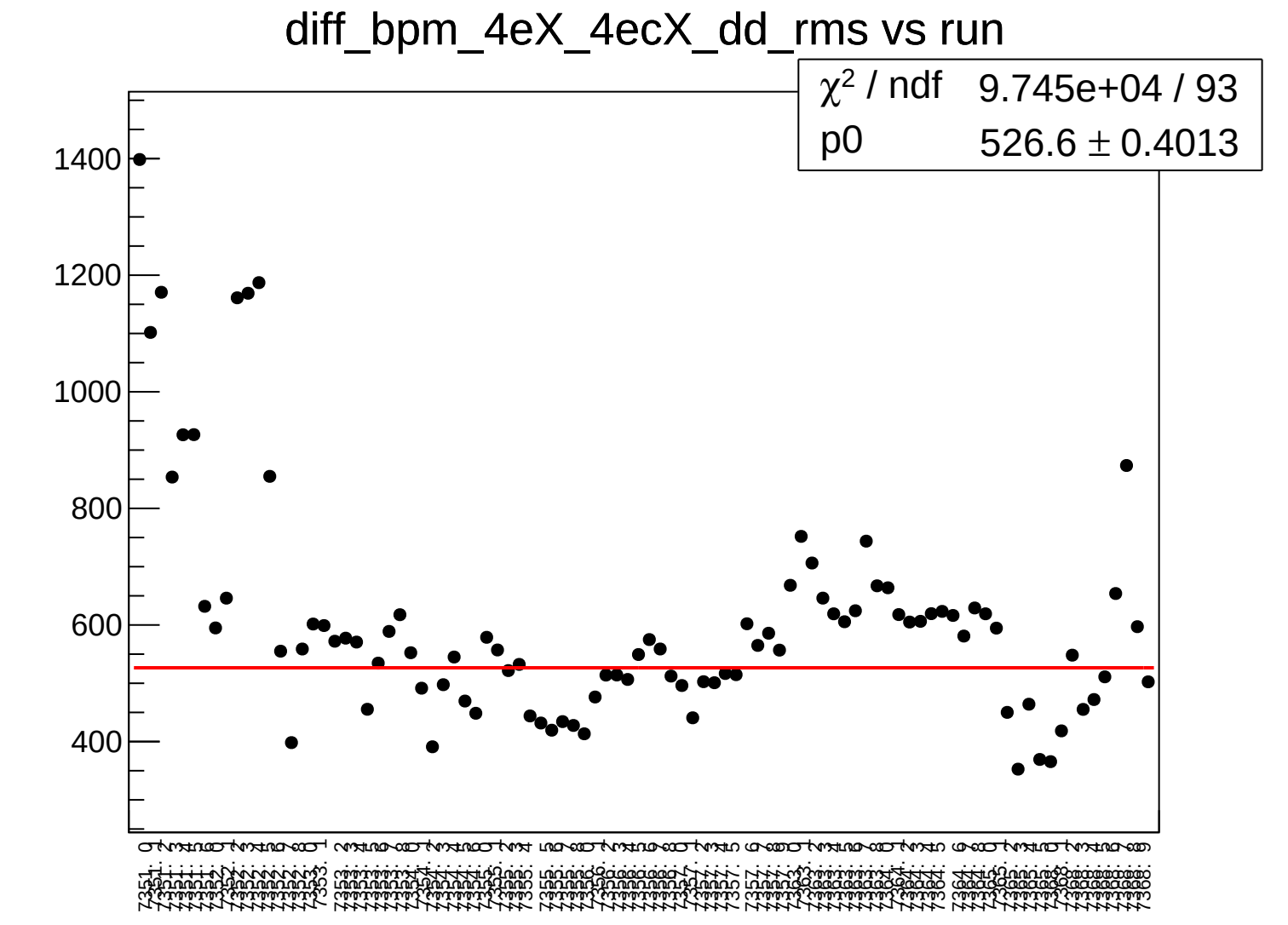

diff_bpm_4aX_4ecX_dd_rms vs run
χ² / ndf 5290 / 93
p0 471.3 ± 0.35
640
620
600
580
560
540
520
500
480
460
440
420

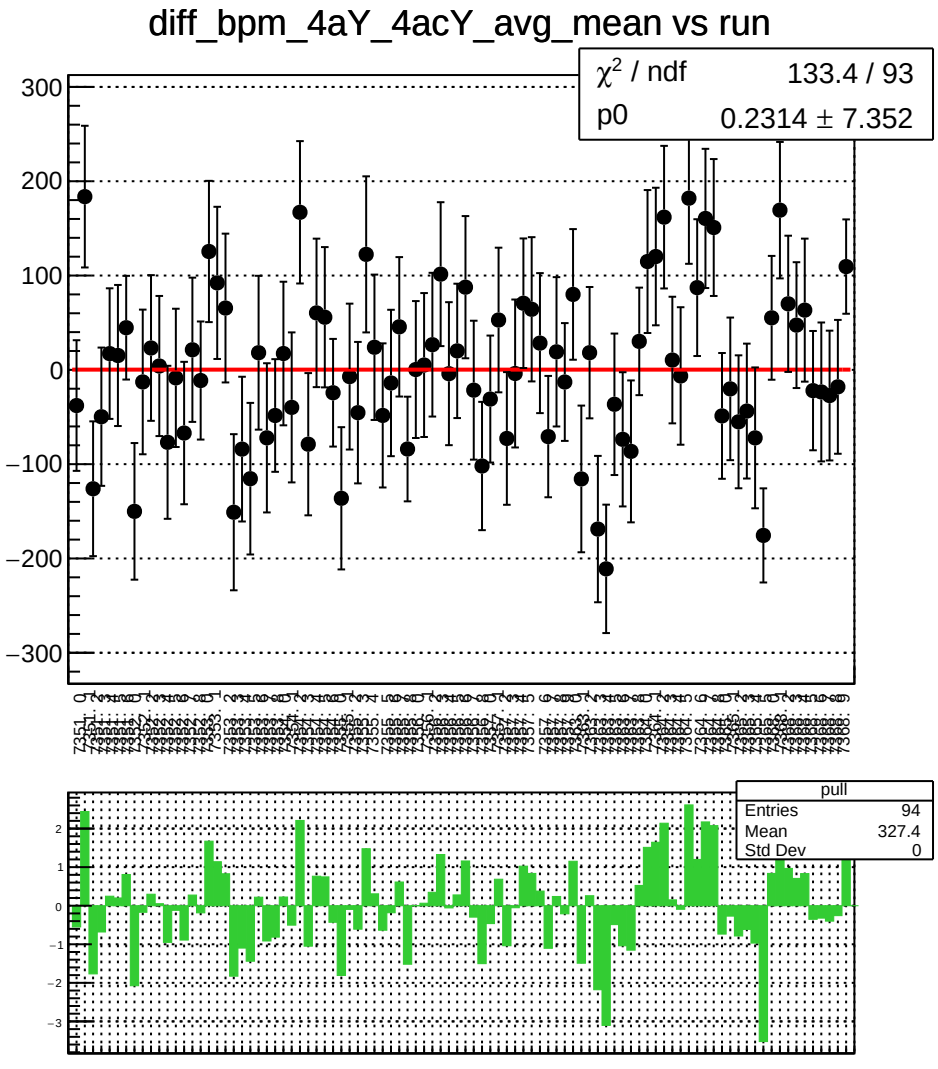

diff_bpm_4eX_4ecX_avg_mean vs run
χ² / ndf 289.9 / 93
p0 10.46 ± 8.393
600
400
200
0
−200
−400
pull
Entries 94
Mean −2795
Std Dev 0
4
2
0
−2
−4

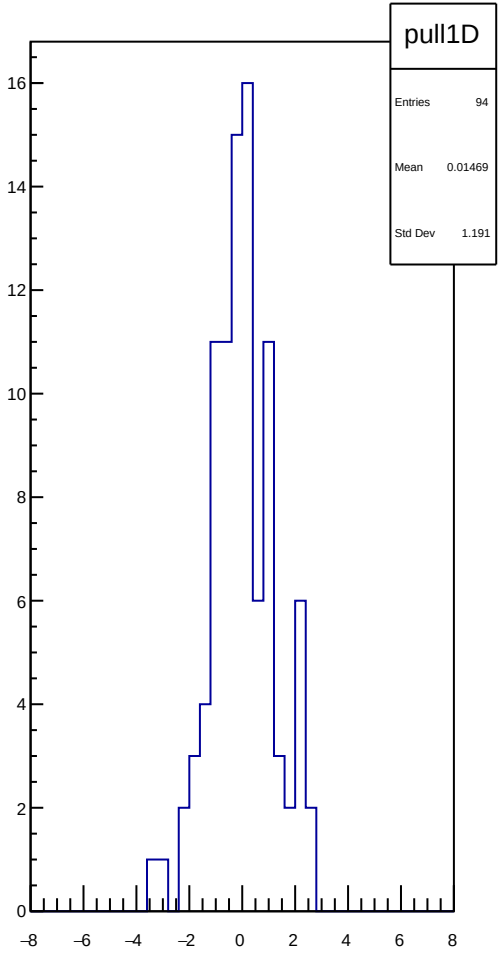

pull1D
Entries 94
Mean 0.001058
Std Dev 1.756
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

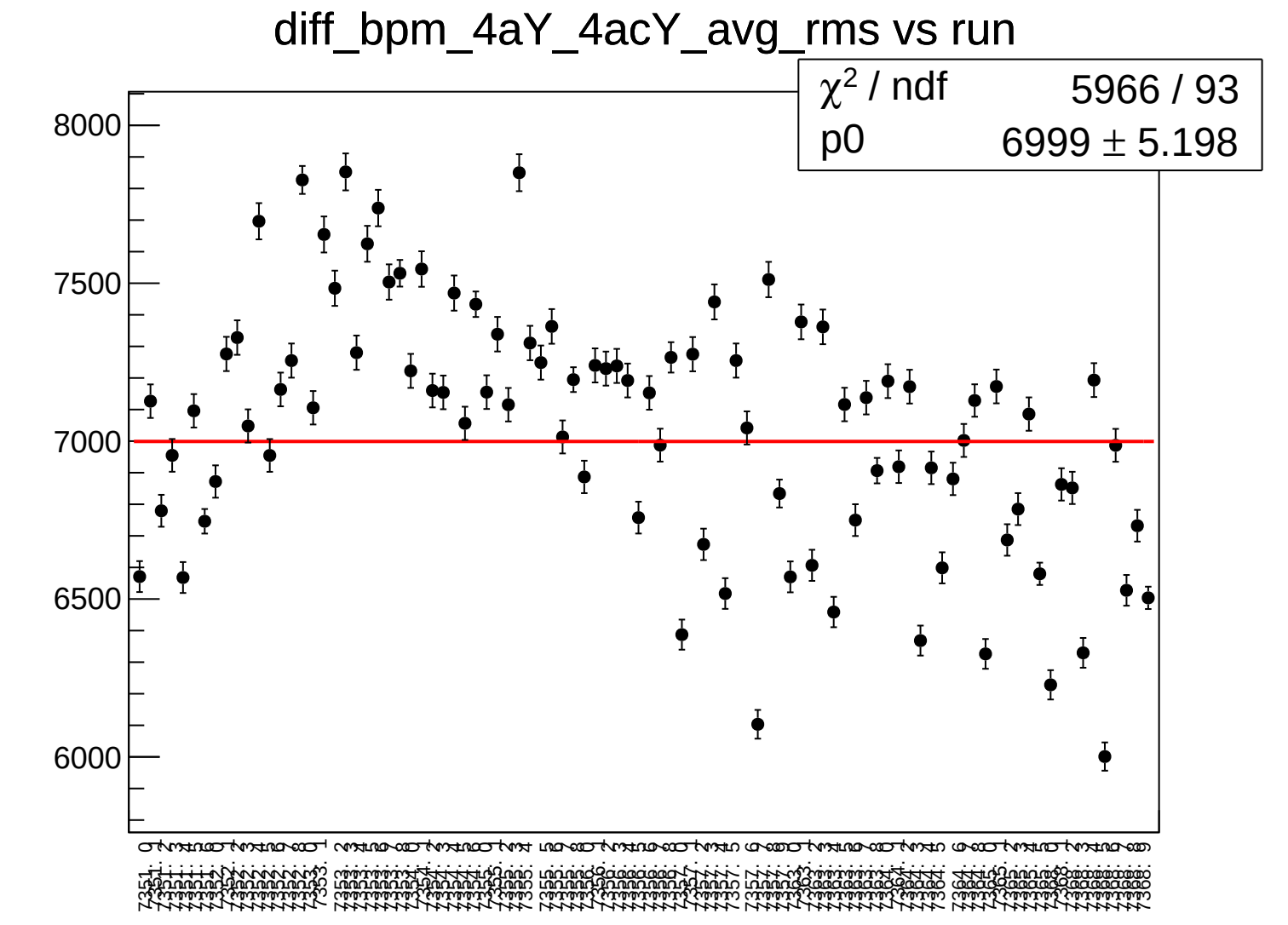

diff_bpm_4eX_4ecX_avg_rms vs run
χ^2 / ndf 4704 / 93
p0 7993 ± 5.935
9000
8500
8000
7500
7000

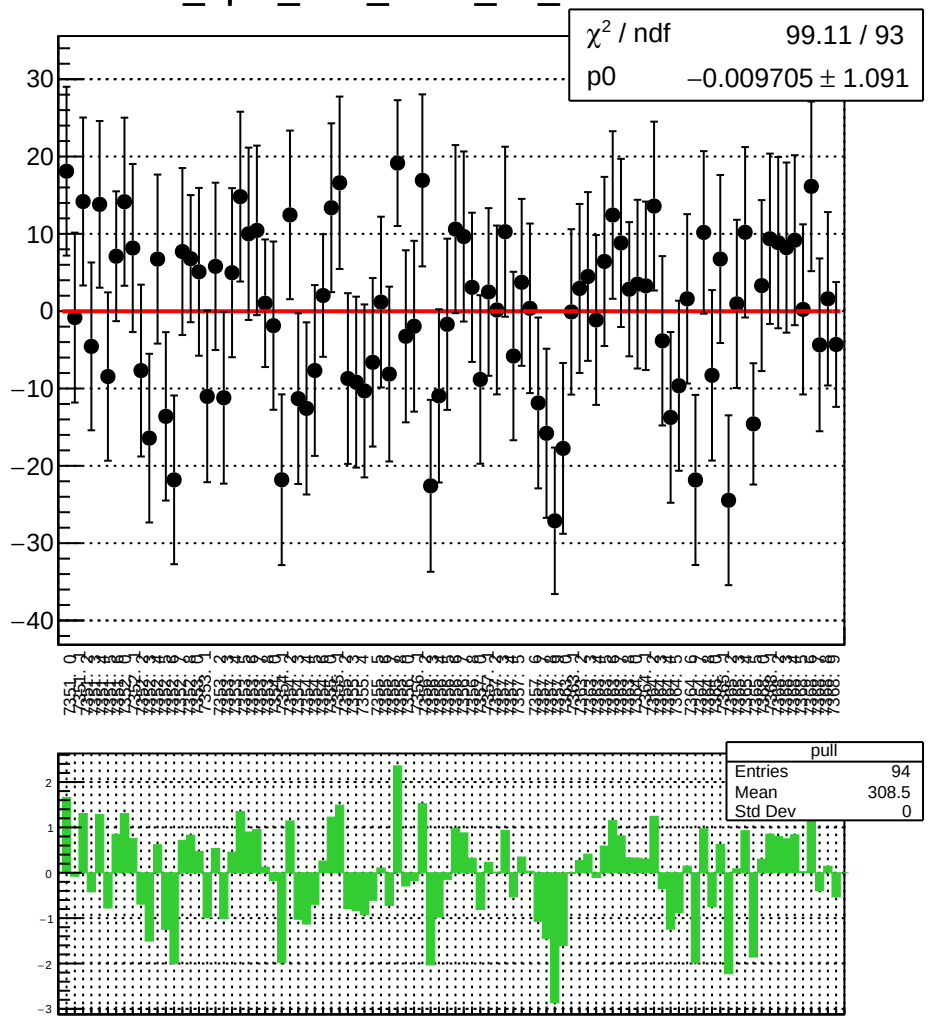

diff_bpm_4eX_4ecX_dd_mean vs run
χ² / ndf 93.68 / 93
p0 −0.01056 ± 0.5676
pull
Entries 94
Mean 33.52
Std Dev 52.41
pull1D
Entries 94
Mean 0.02795
Std Dev 0.9979

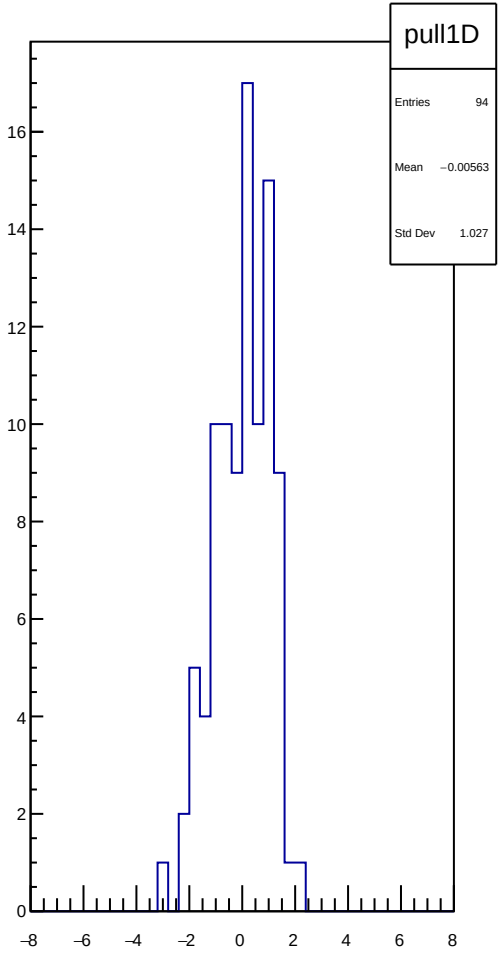

diff_bpm_4eX_4ecX_dd_rms vs run
χ² / ndf 9.745e+04 / 93
p0 526.6 ± 0.4013
1400
1200
1000
800
600
400

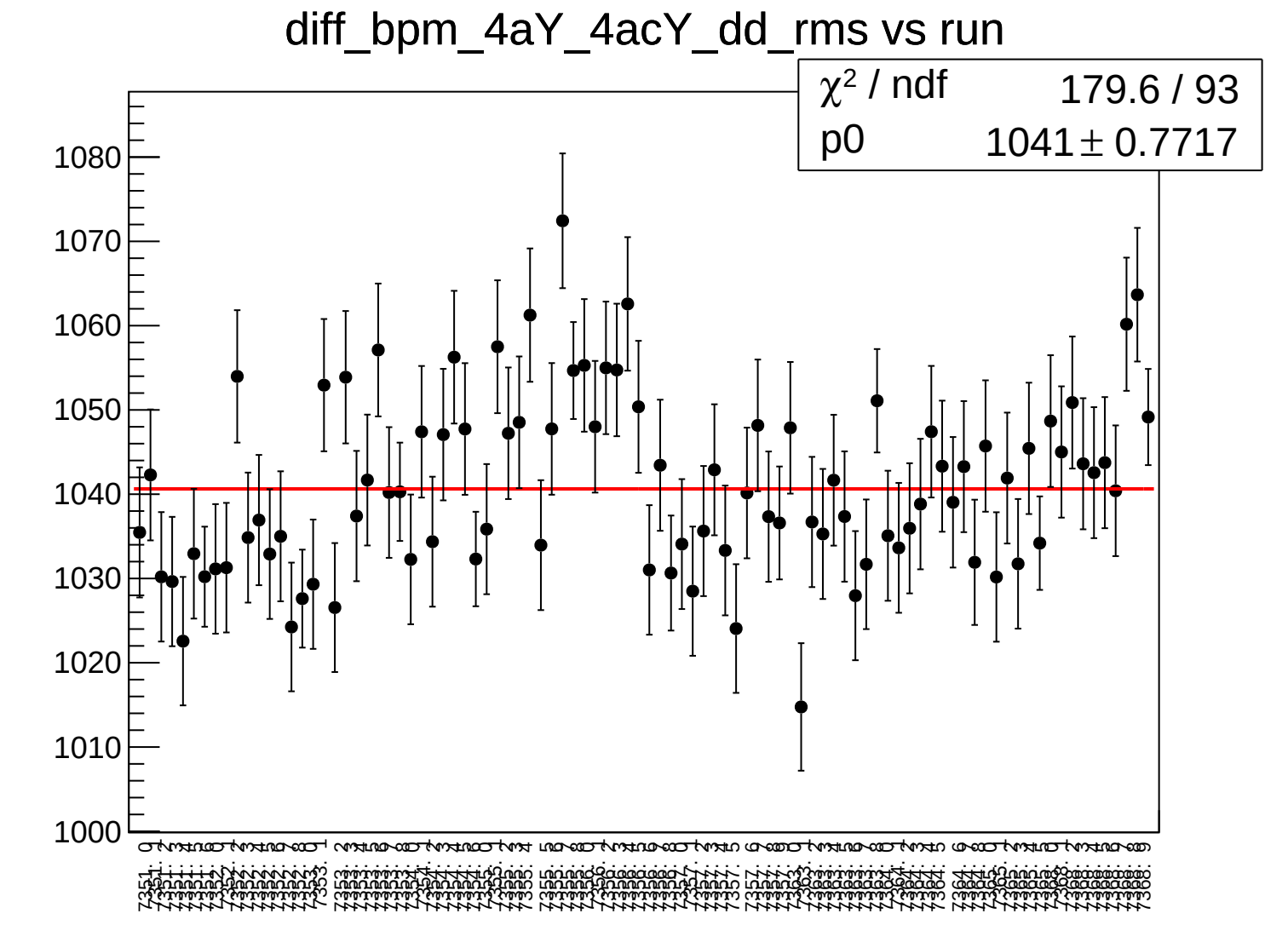

diff_bpm_4aY_4acY_avg_mean vs run
χ² / ndf 133.4 / 93
p0 0.2314 ± 7.352
pull
Entries 94
Mean 327.4
Std Dev 0

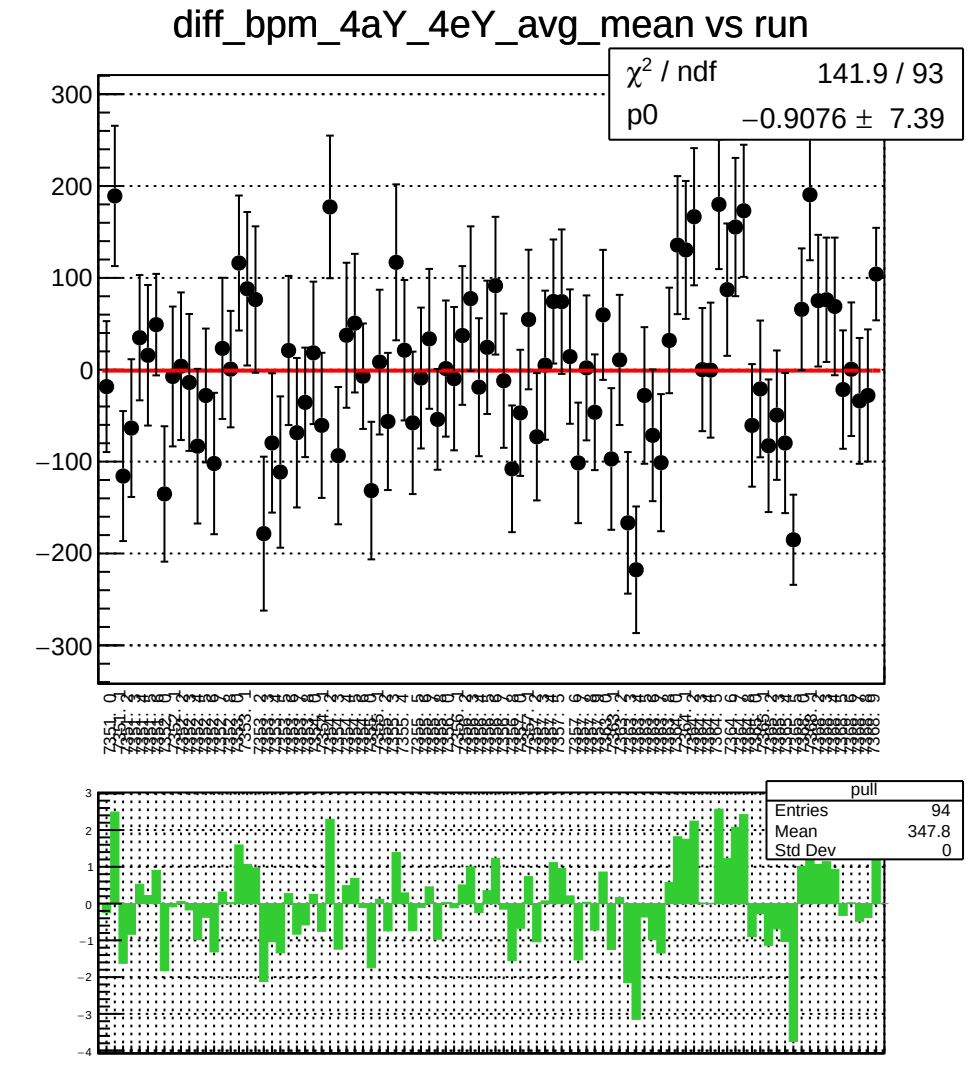

pull1D
Entries 94
Mean 0.01469
Std Dev 1.191

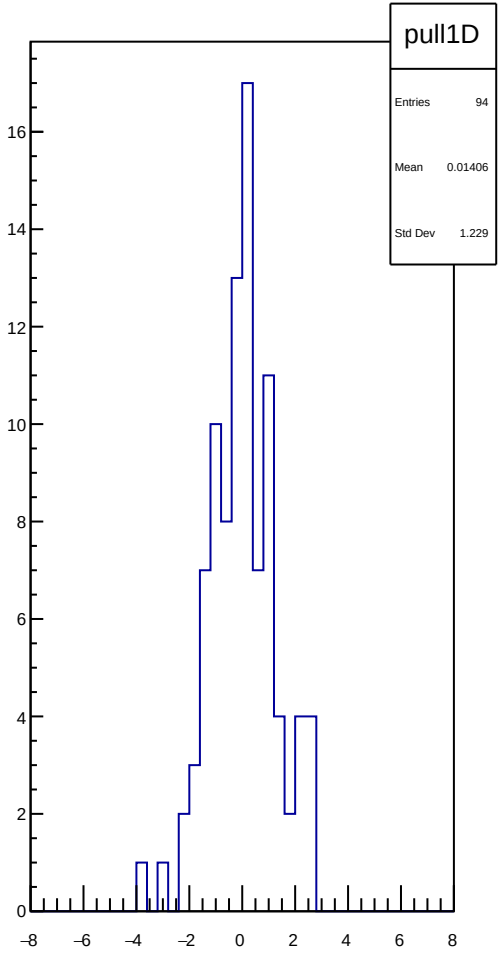

diff_bpm_4aY_4acY_avg_rms vs run
χ² / ndf 5966 / 93
p0 6999 ± 5.198
8000
7500
7000
6500
6000

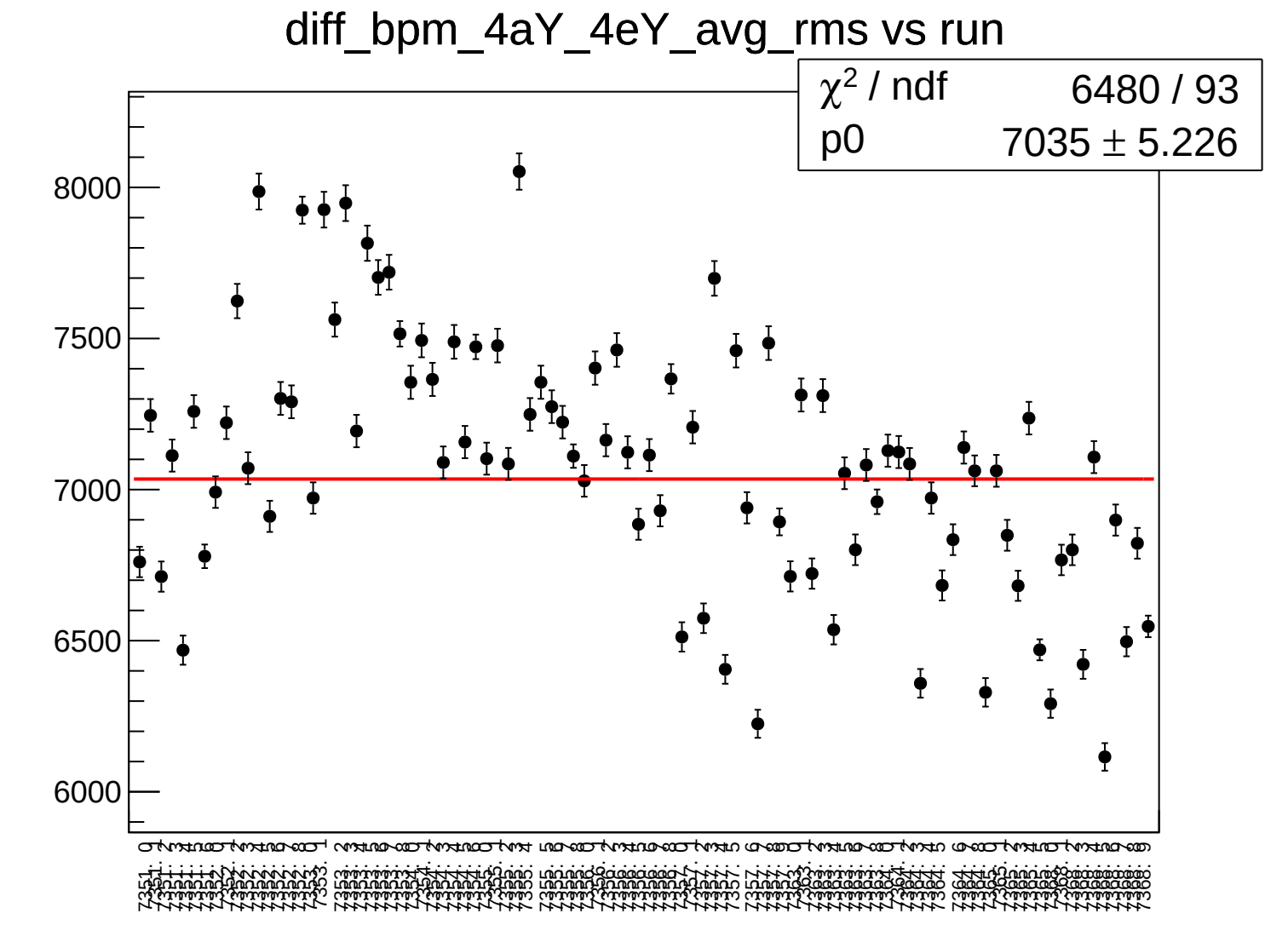

diff_bpm_4aY_4acY_dd_mean vs run
χ² / ndf 99.11 / 93
p0 −0.009705 ± 1.091
pull
Entries 94
Mean 308.5
Std Dev 0

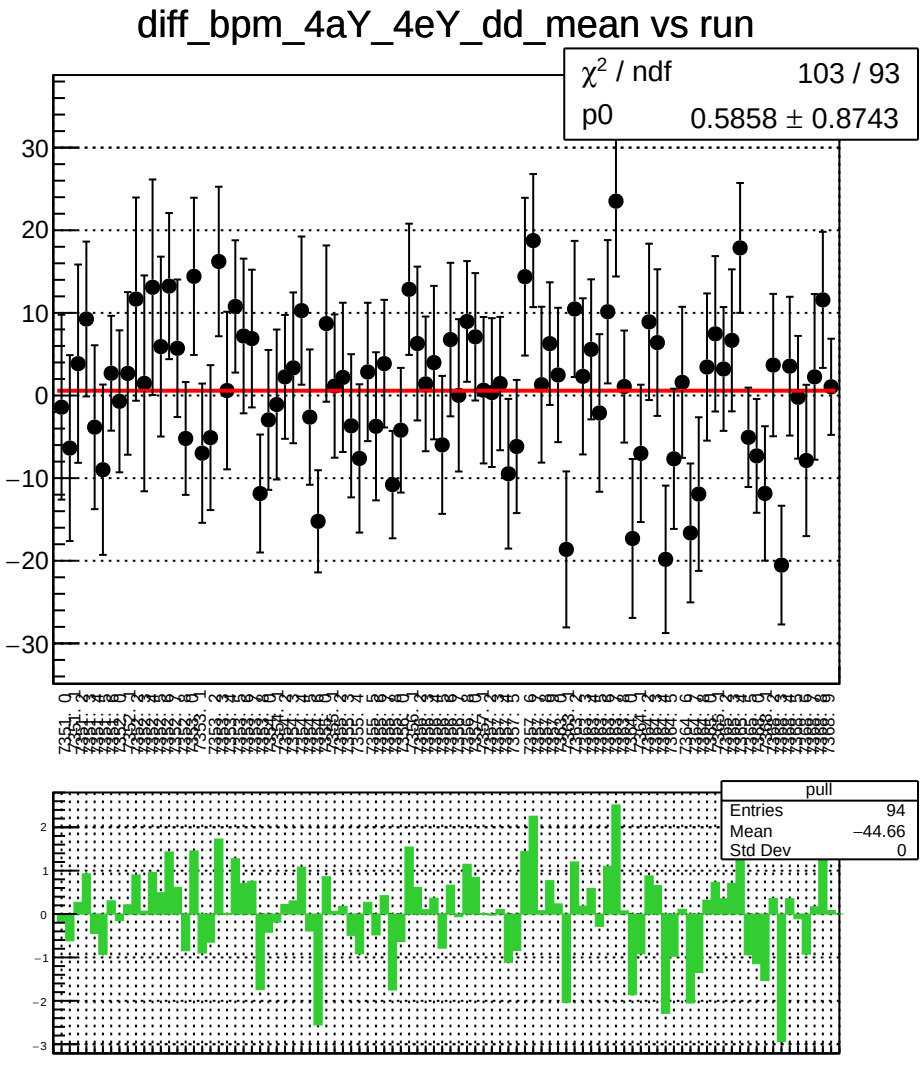

pull1D
Entries 94
Mean −0.00563
Std Dev 1.027

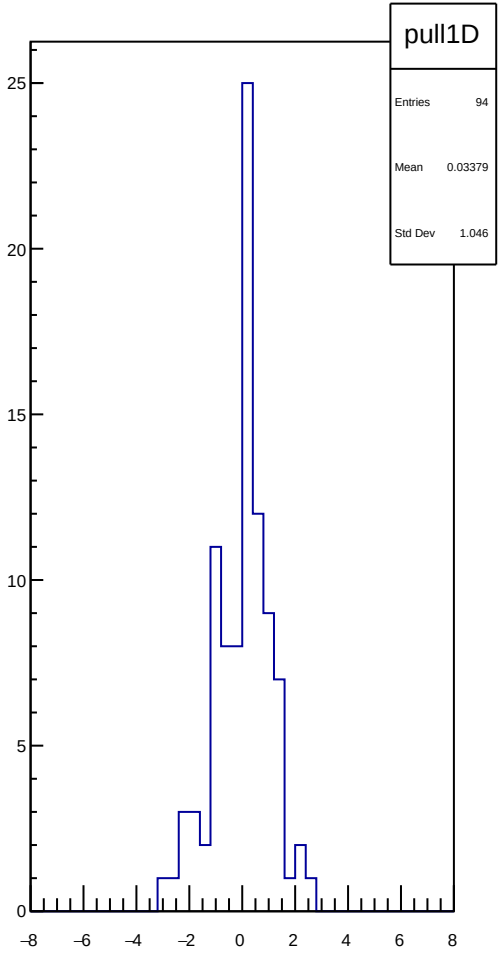

diff_bpm_4aY_4acY_dd_rms vs run
χ² / ndf 179.6 / 93
p0 1041 ± 0.7717
1080
1070
1060
1050
1040
1030
1020
1010
1000

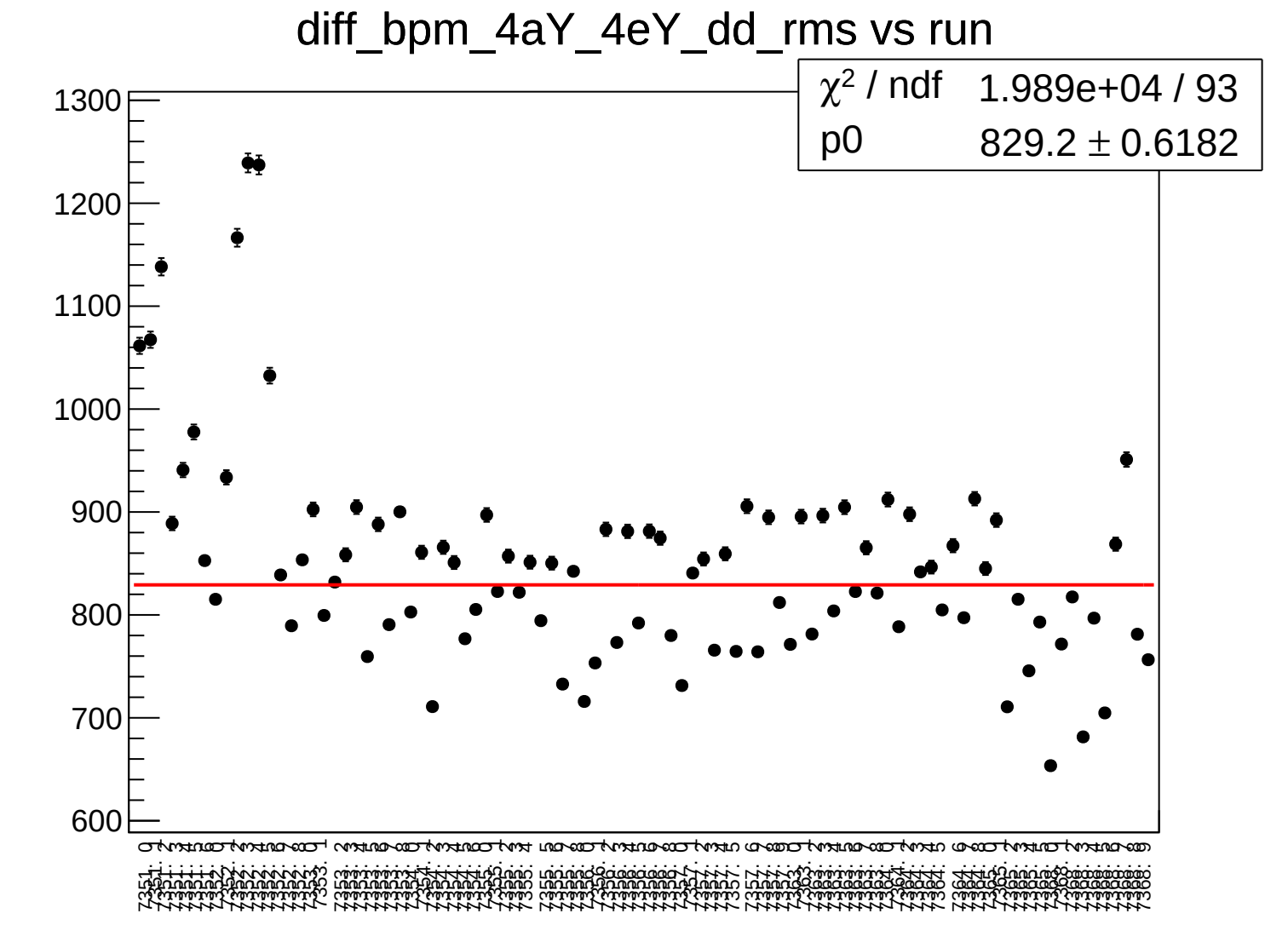

diff_bpm_4aY_4eY_avg_mean vs run
χ² / ndf 141.9 / 93
p0 −0.9076 ± 7.39
300
200
100
0
−100
−200
−300
pull
Entries 94
Mean 347.8
Std Dev 0
3
2
1
0
−1
−2
−3
−4

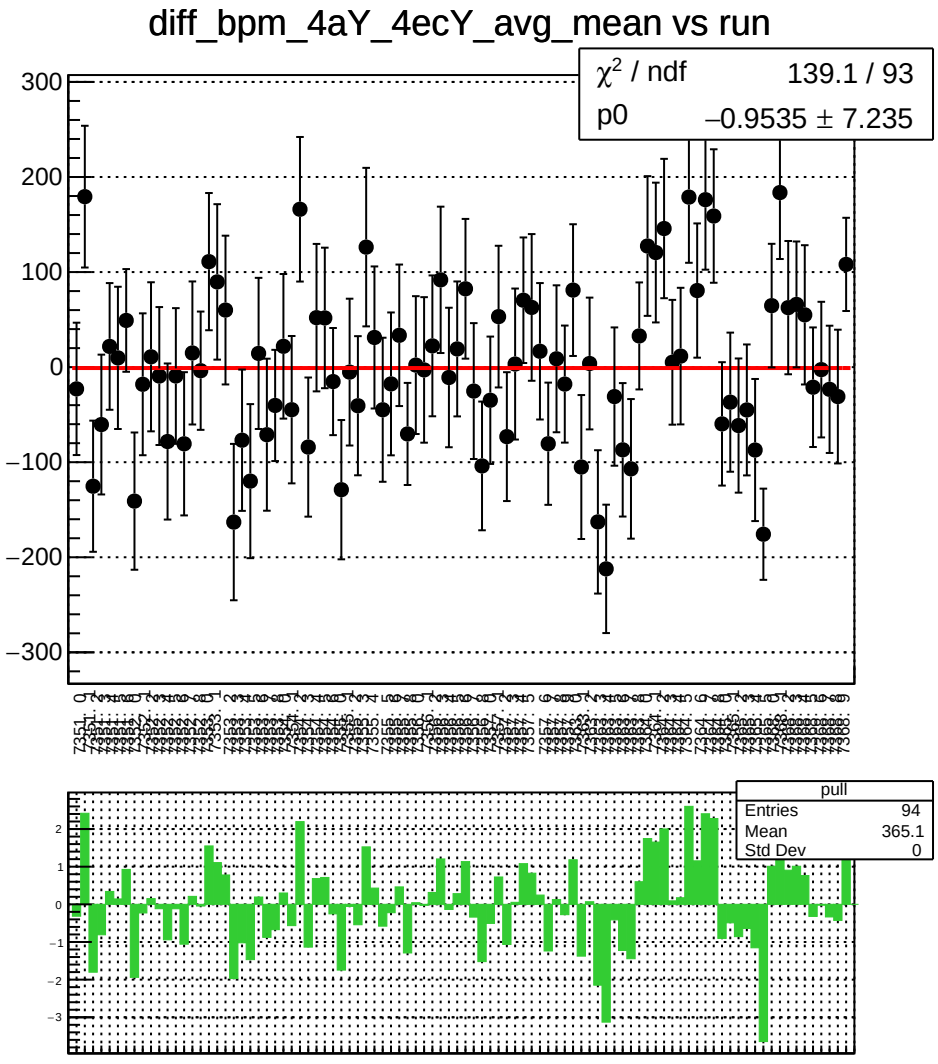

pull1D
Entries 94
Mean 0.01406
Std Dev 1.229
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

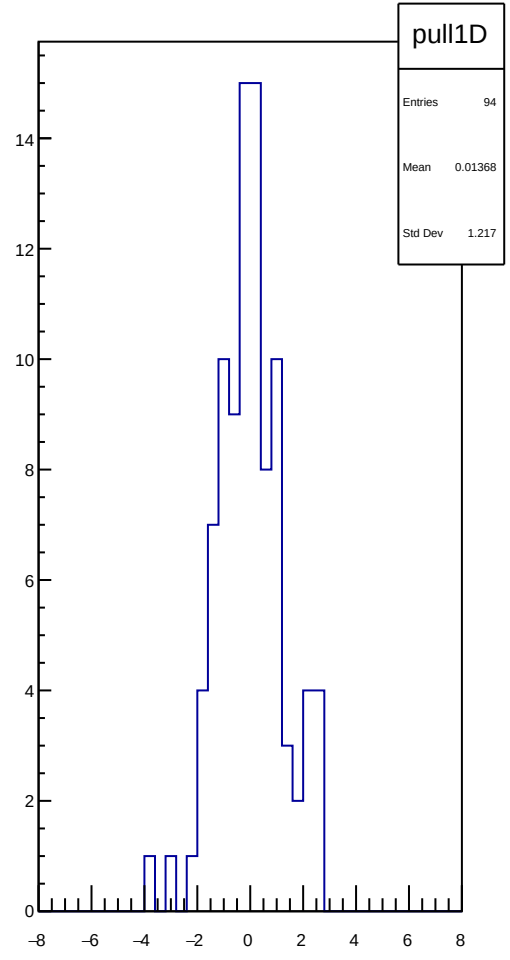

diff_bpm_4aY_4eY_avg_rms vs run
χ² / ndf 6480 / 93
p0 7035 ± 5.226
8000
7500
7000
6500
6000

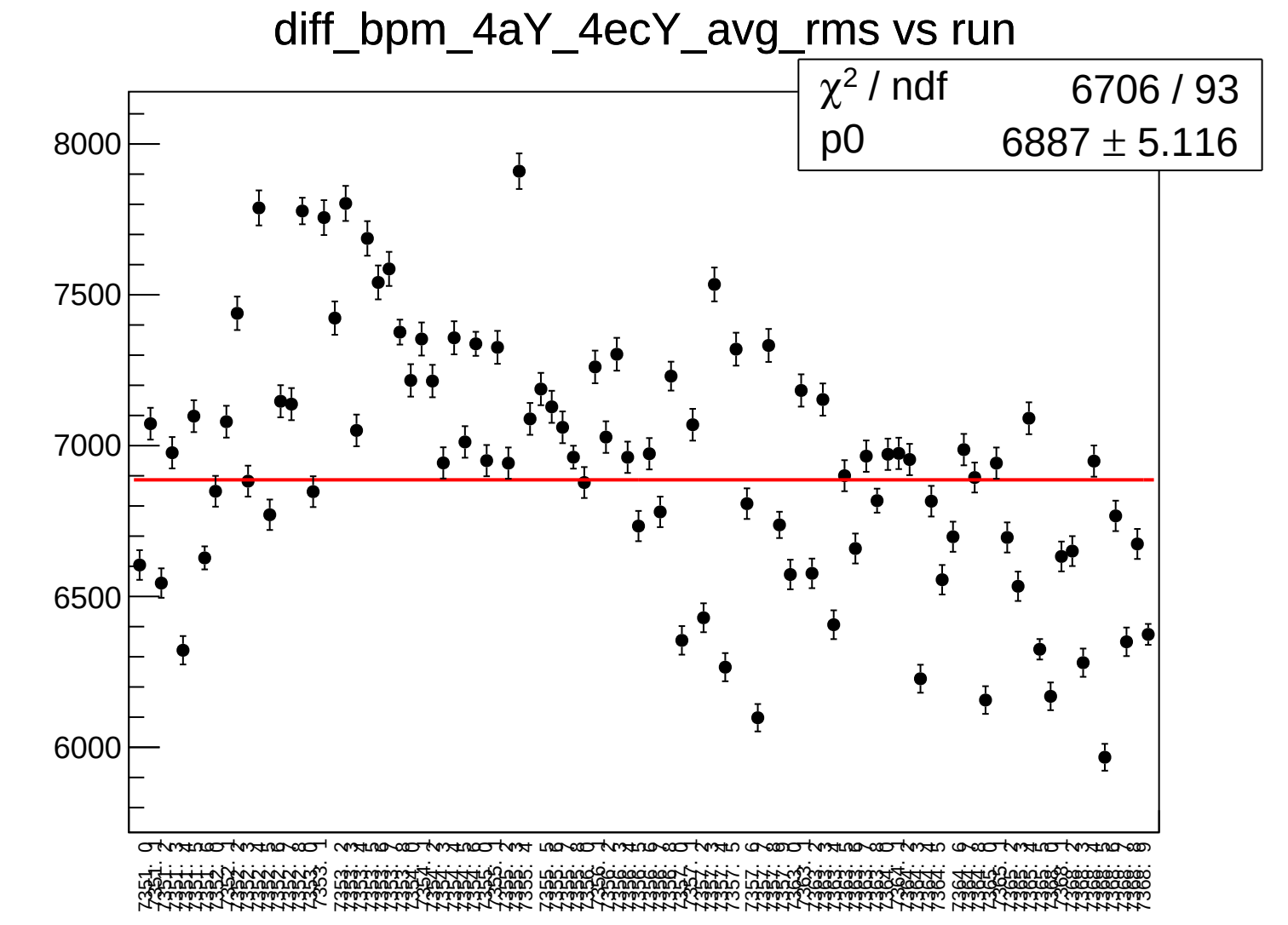

diff_bpm_4aY_4eY_dd_mean vs run
χ² / ndf 103 / 93
p0 0.5858 ± 0.8743
pull
Entries 94
Mean −44.66
Std Dev 0

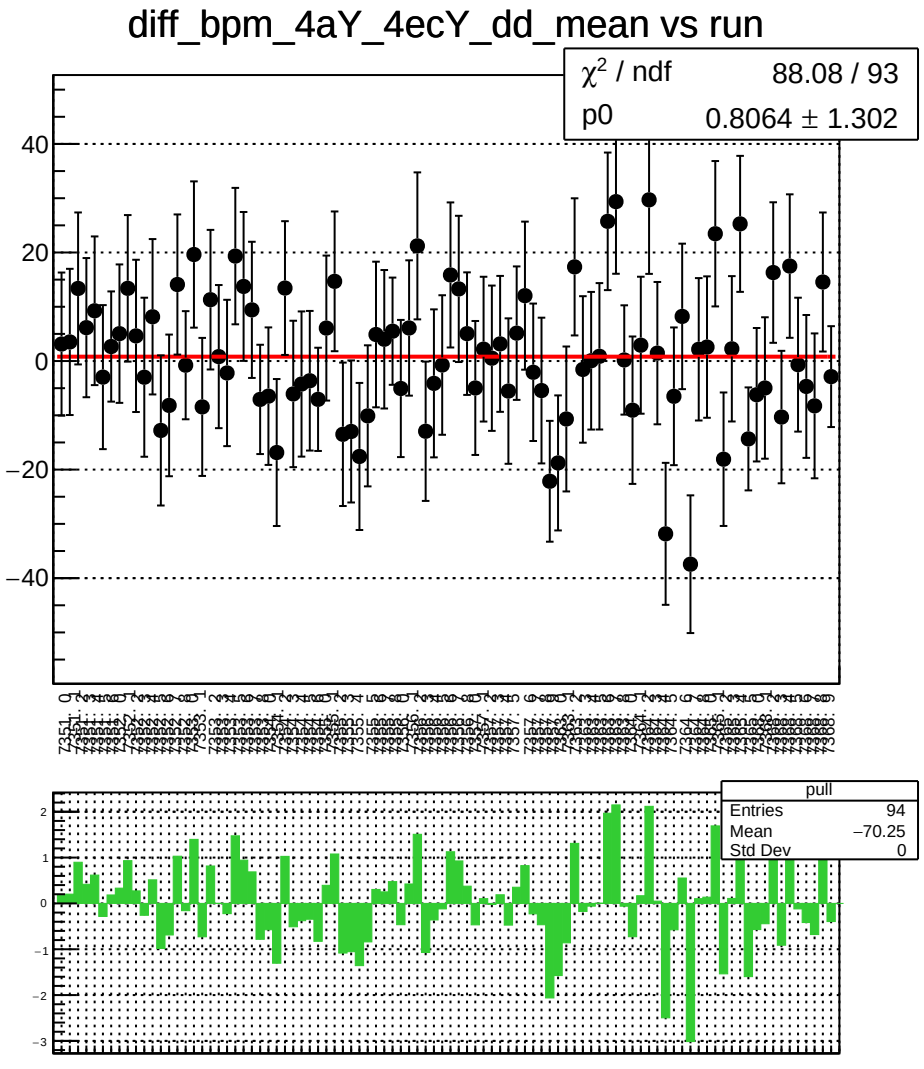

pull1D
Entries 94
Mean 0.03379
Std Dev 1.046

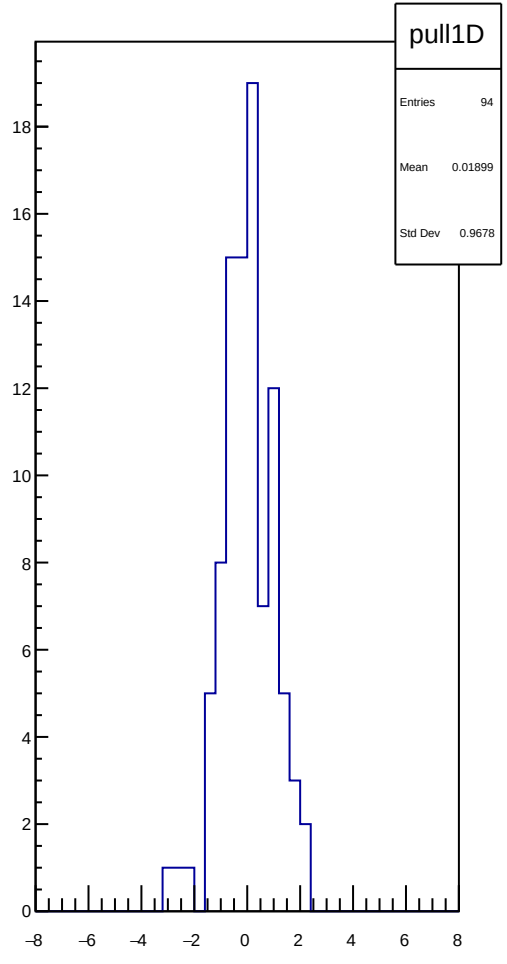

diff_bpm_4aY_4eY_dd_rms vs run
χ² / ndf 1.989e+04 / 93
p0 829.2 ± 0.6182
1300
1200
1100
1000
900
800
700
600

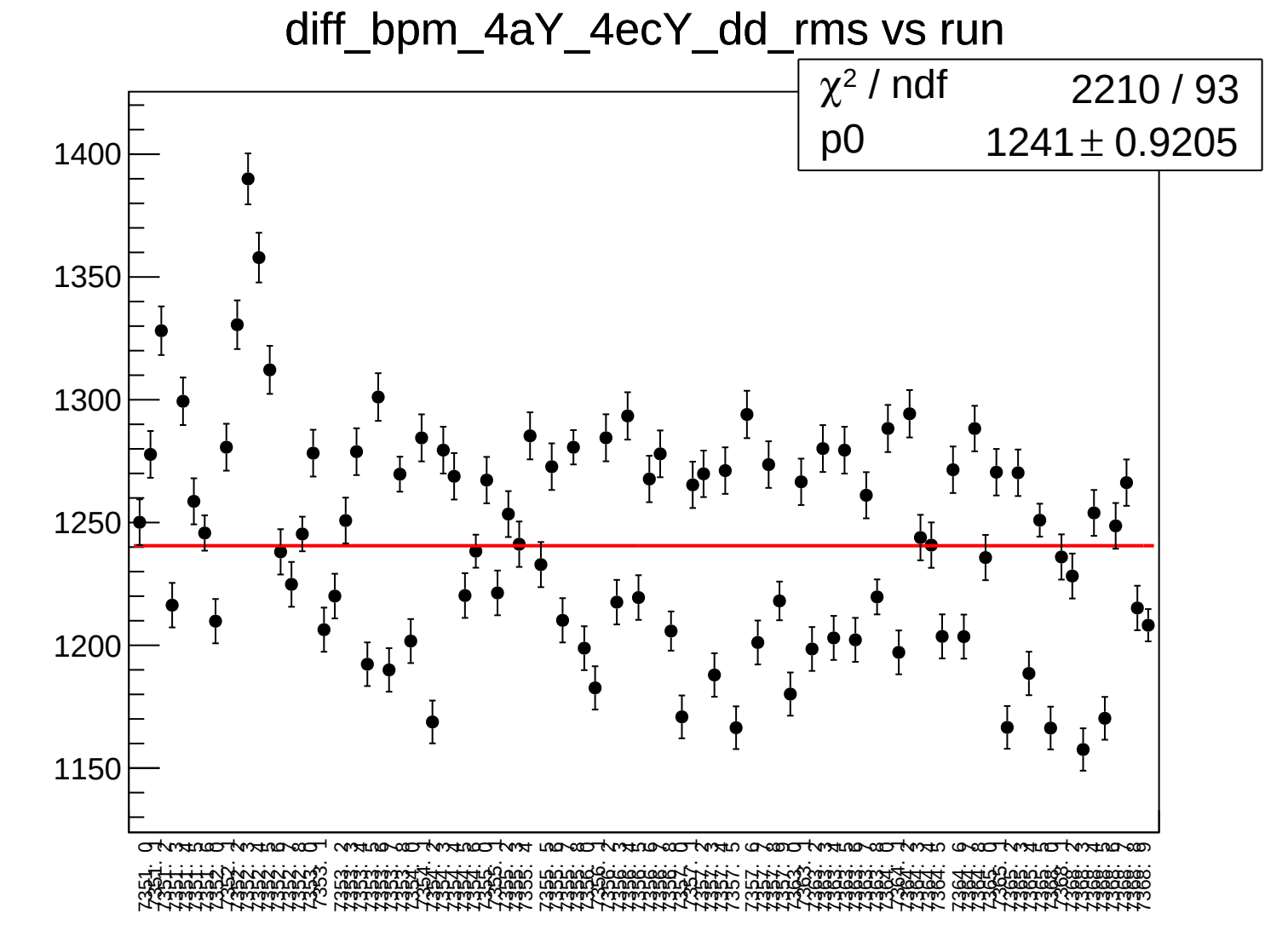

diff_bpm_4aY_4ecY_avg_mean vs run
χ² / ndf 139.1 / 93
p0 −0.9535 ± 7.235
300
200
100
0
−100
−200
−300
pull
Entries 94
Mean 365.1
Std Dev 0
2
1
0
−1
−2
−3

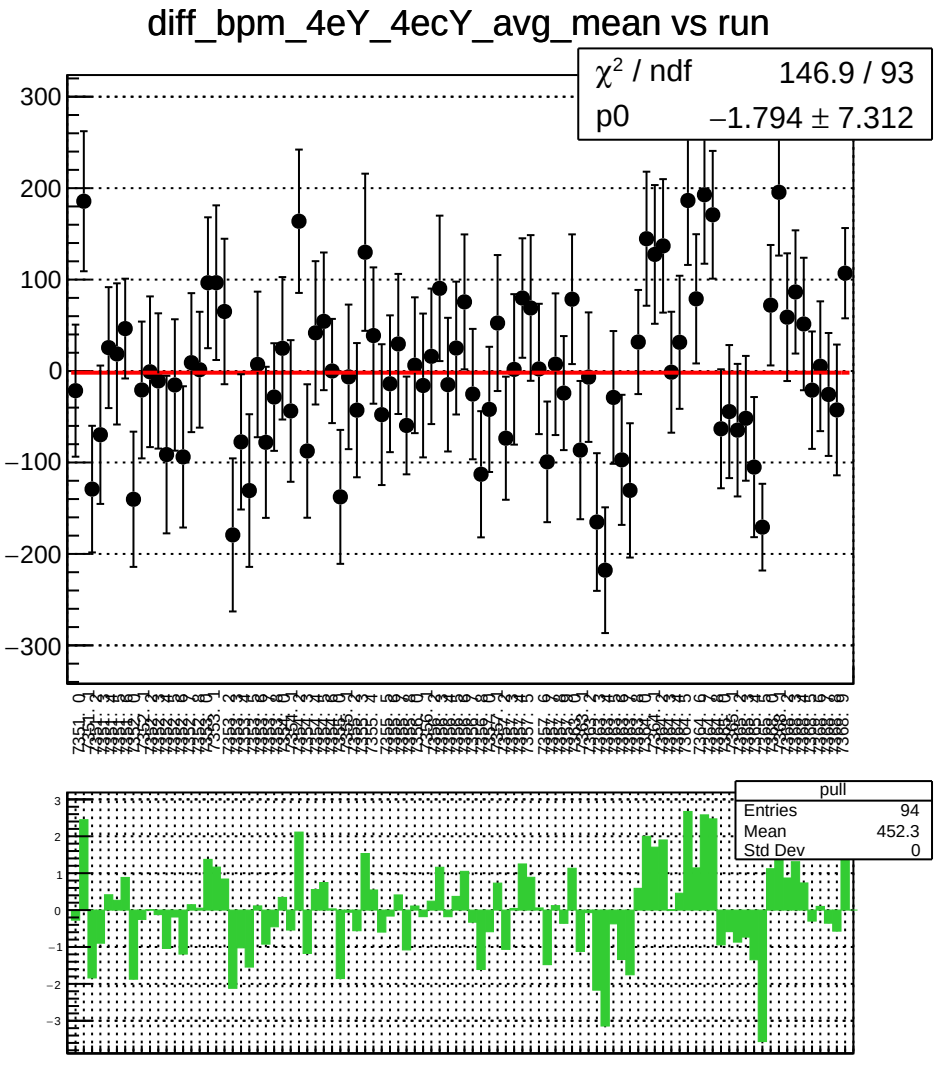

pull1D
Entries 94
Mean 0.01368
Std Dev 1.217
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

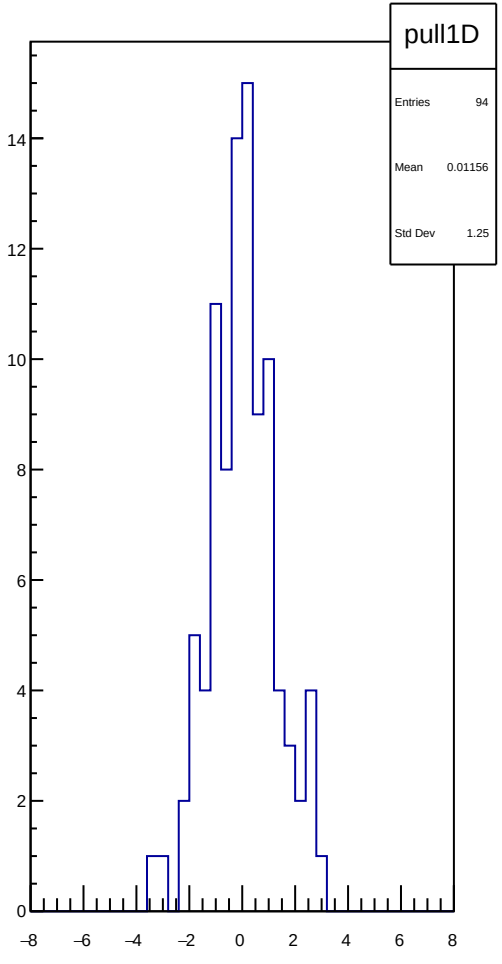

diff_bpm_4aY_4ecY_avg_rms vs run
χ^2 / ndf 6706 / 93
p0 6887 ± 5.116
8000
7500
7000
6500
6000

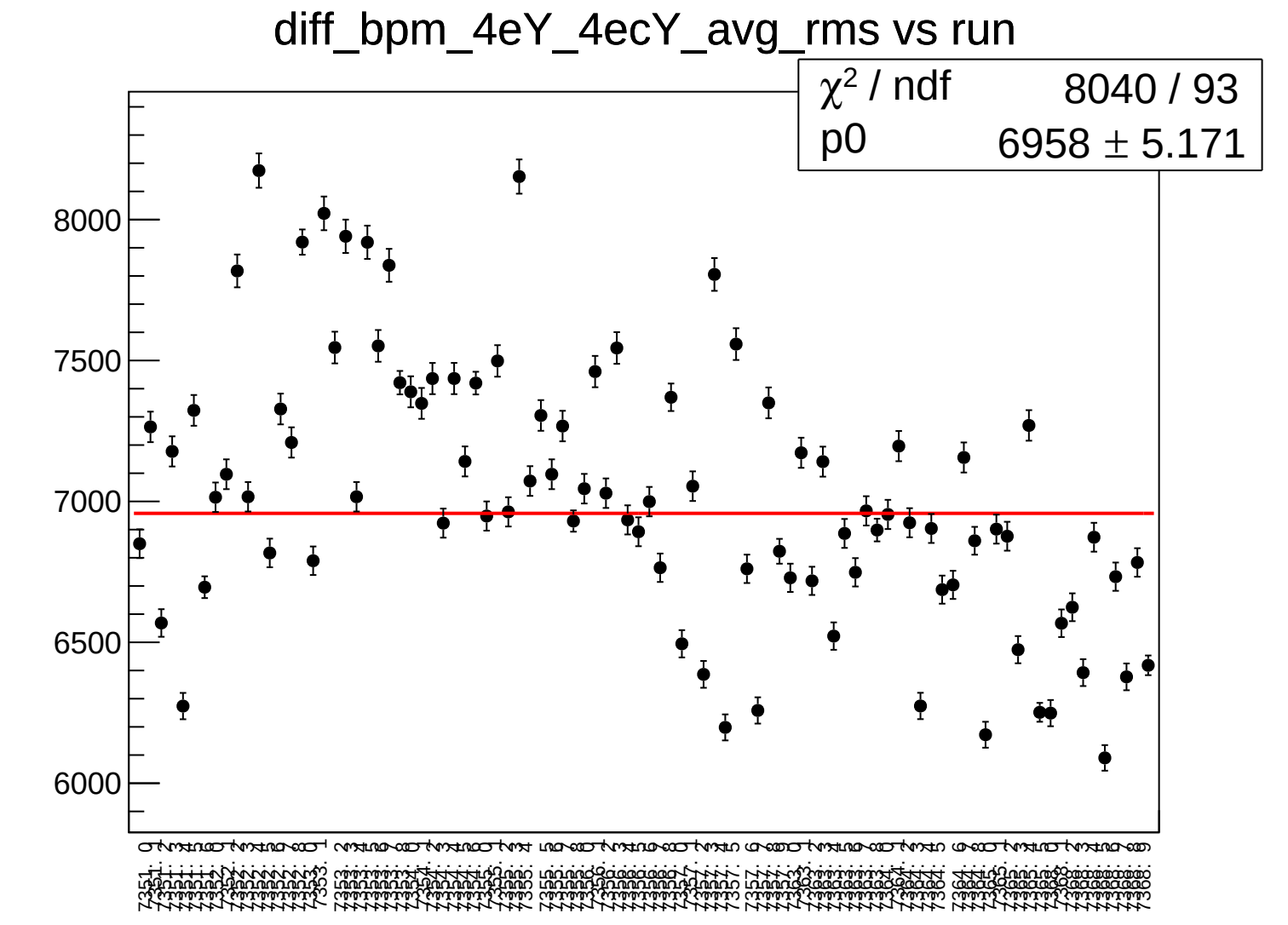

diff_bpm_4aY_4ecY_dd_mean vs run
χ² / ndf 88.08 / 93
p0 0.8064 ± 1.302
40
20
0
−20
−40
pull
Entries 94
Mean −70.25
Std Dev 0
2
1
0
−1
−2
−3

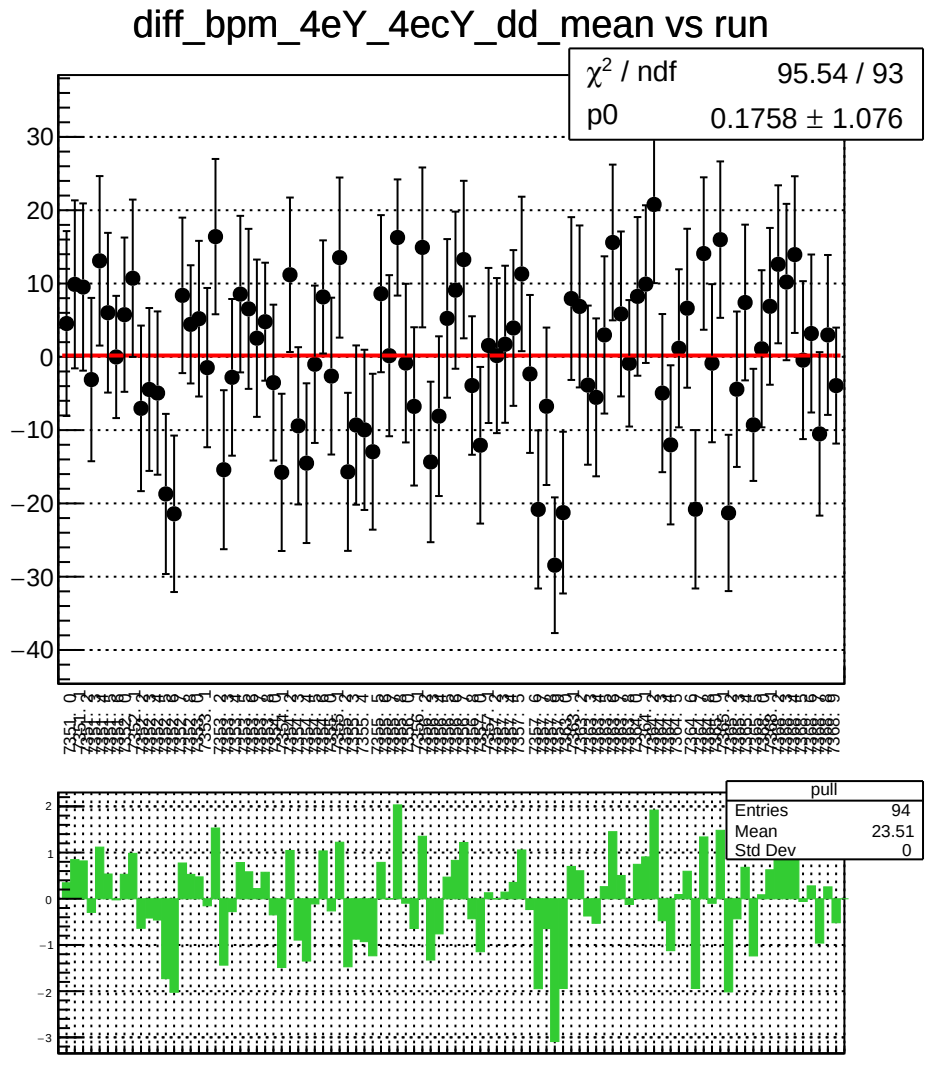

pull1D
Entries 94
Mean 0.01899
Std Dev 0.9678
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

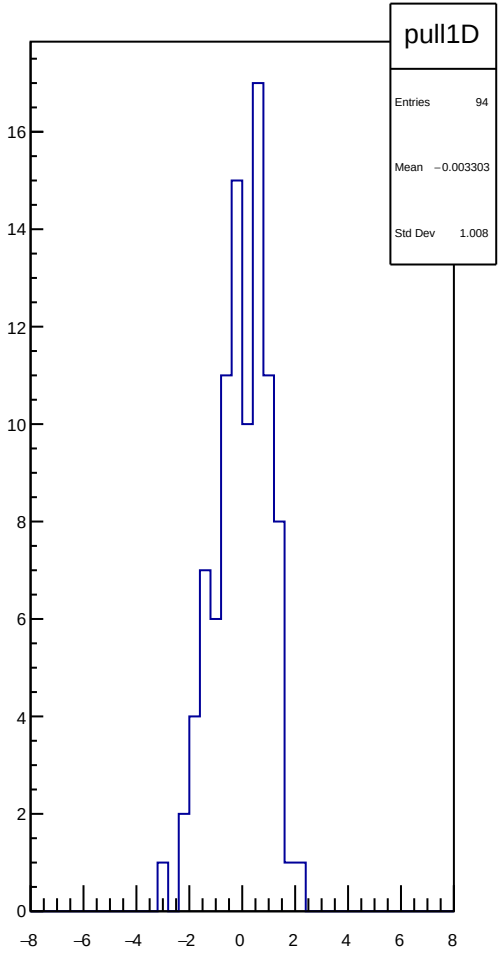

diff_bpm_4aY_4ecY_dd_rms vs run
χ² / ndf 2210 / 93
p0 1241 ± 0.9205
1400
1350
1300
1250
1200
1150

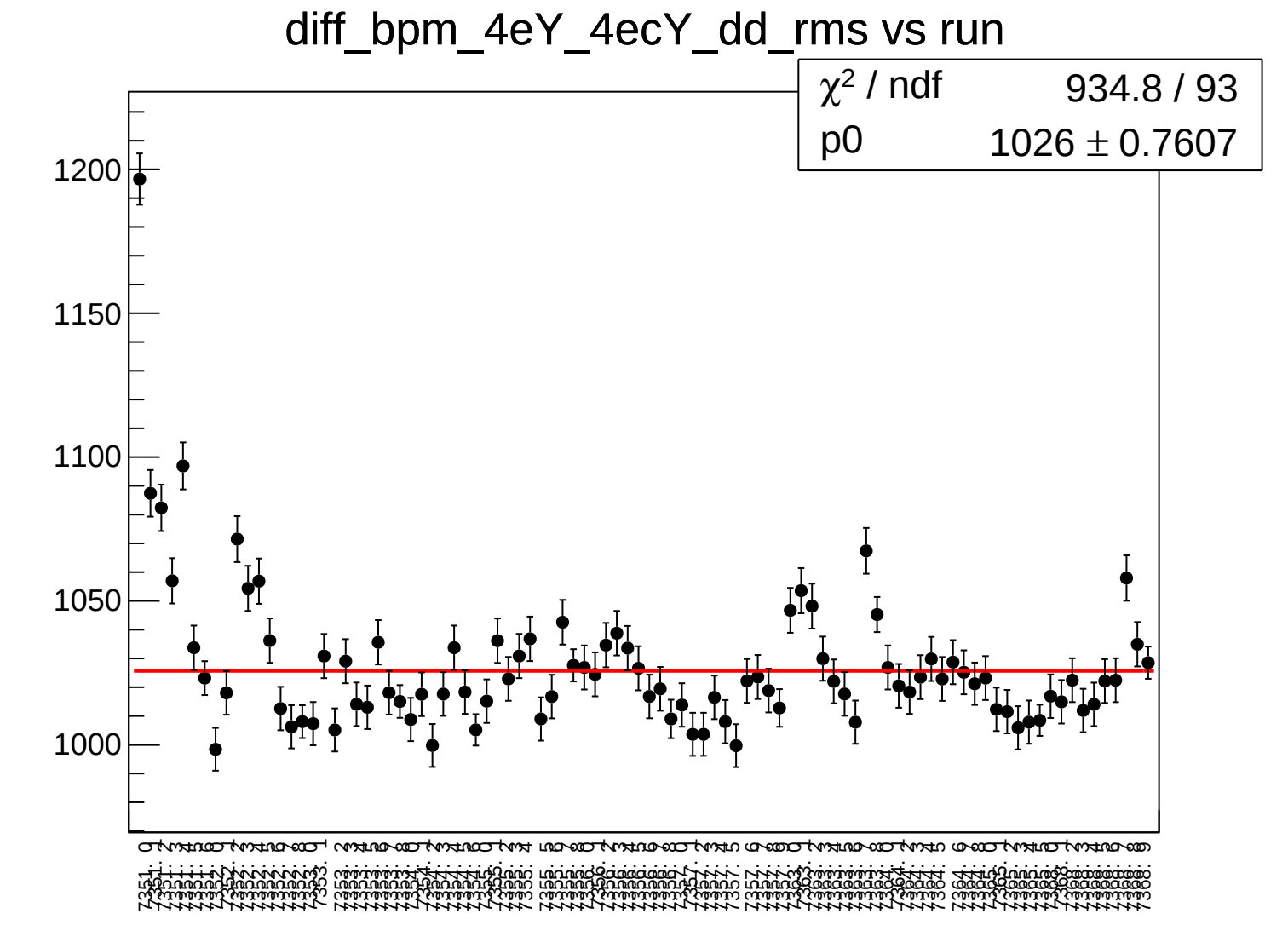

diff_bpm_4eY_4ecY_avg_mean vs run
χ² / ndf 146.9 / 93
p0 −1.794 ± 7.312
pull
Entries 94
Mean 452.3
Std Dev 0

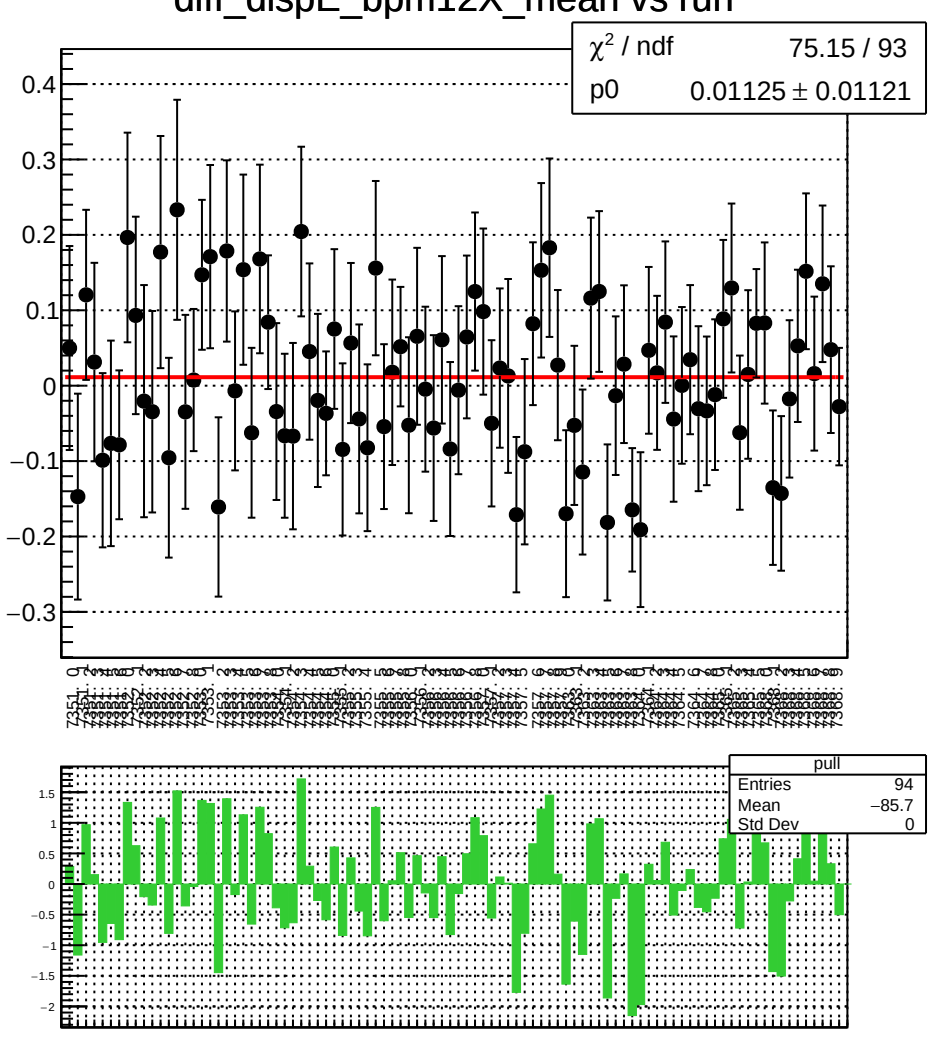

pull1D
Entries 94
Mean 0.01156
Std Dev 1.25

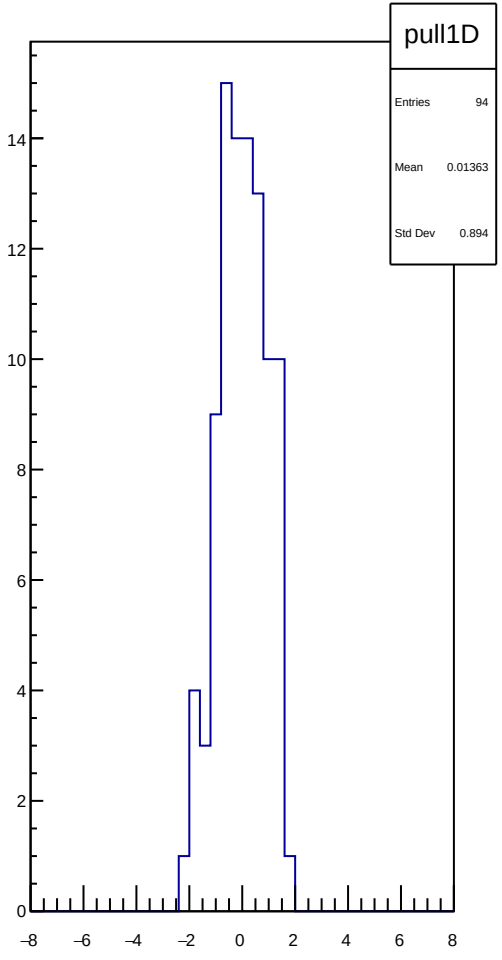

diff_bpm_4eY_4ecY_avg_rms vs run
χ² / ndf 8040 / 93
p0 6958 ± 5.171
8000
7500
7000
6500
6000

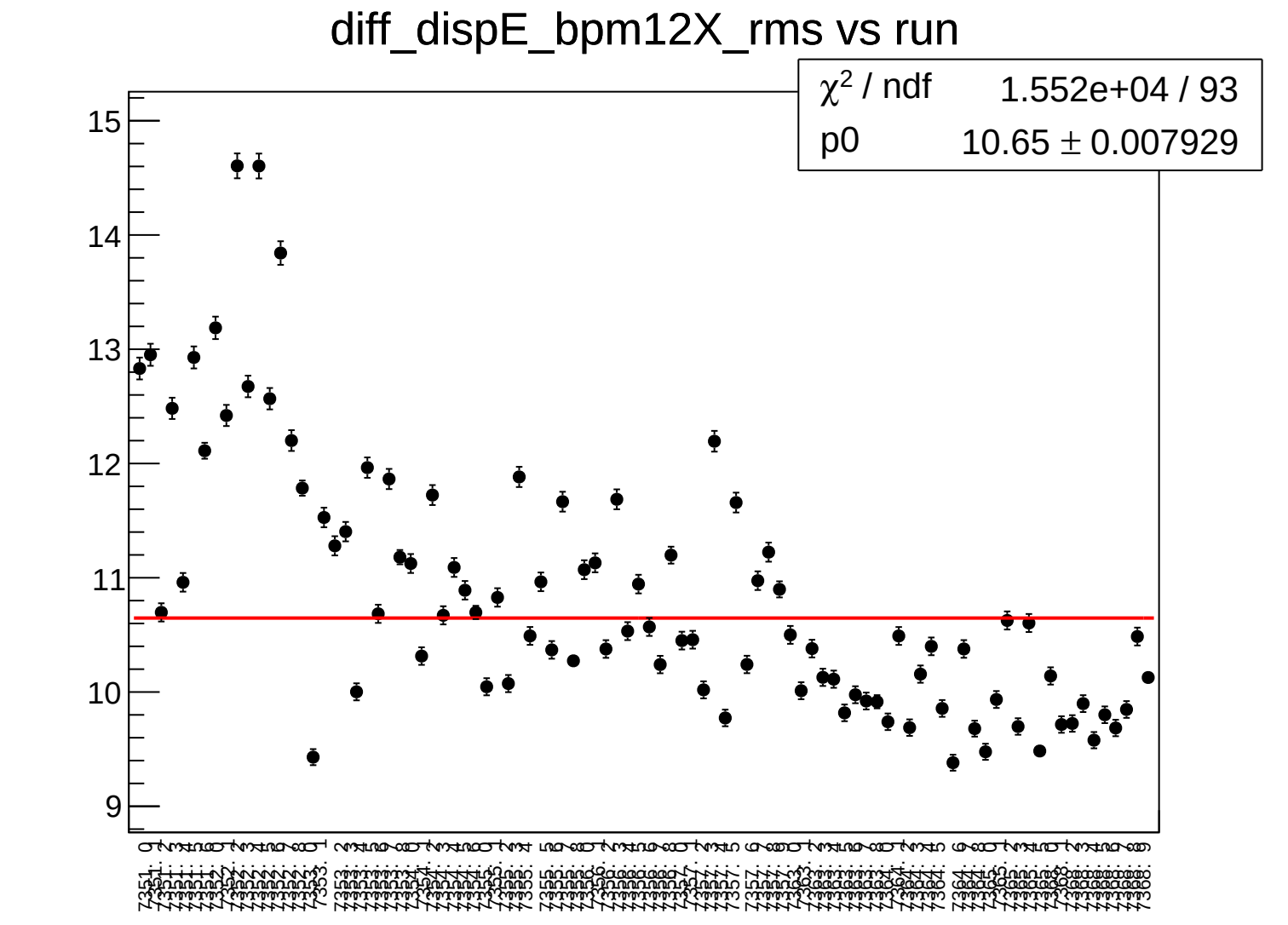

diff_bpm_4eY_4ecY_dd_mean vs run
χ² / ndf 95.54 / 93
p0 0.1758 ± 1.076
pull
Entries 94
Mean 23.51
Std Dev 0

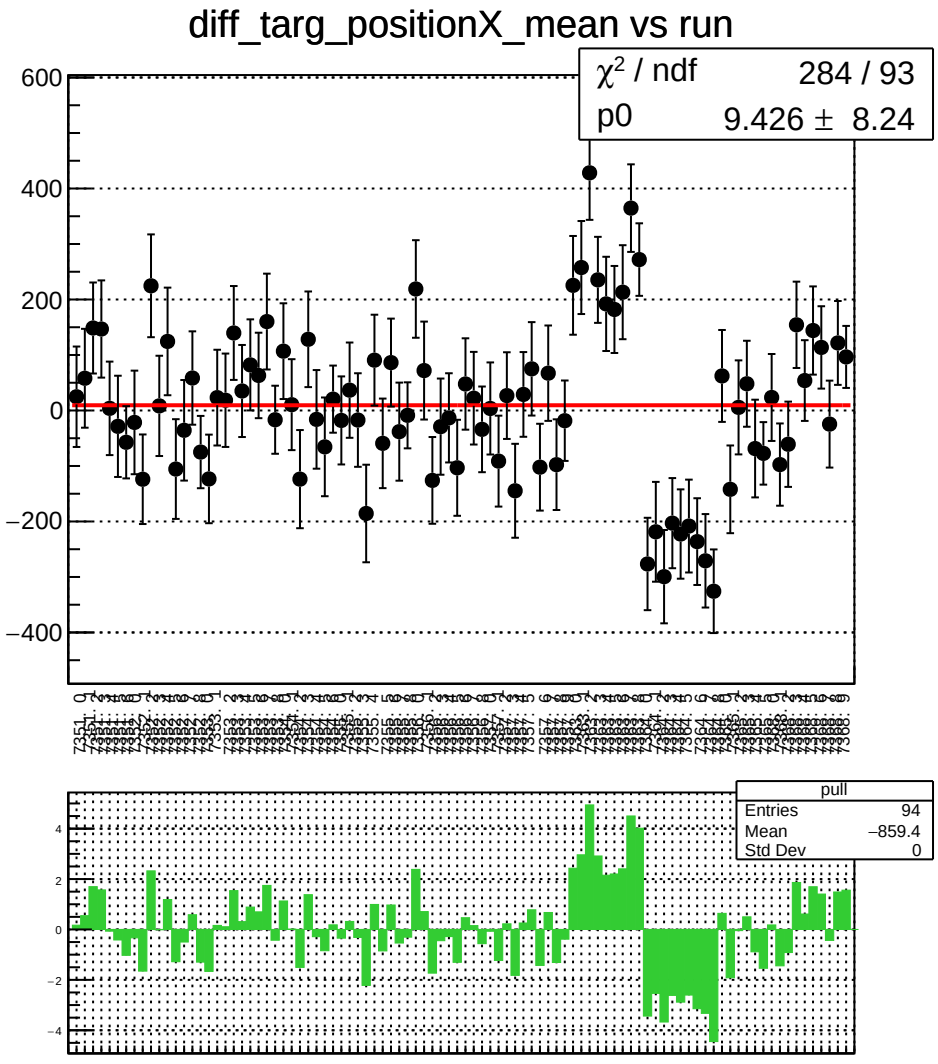

pull1D
Entries 94
Mean −0.003303
Std Dev 1.008

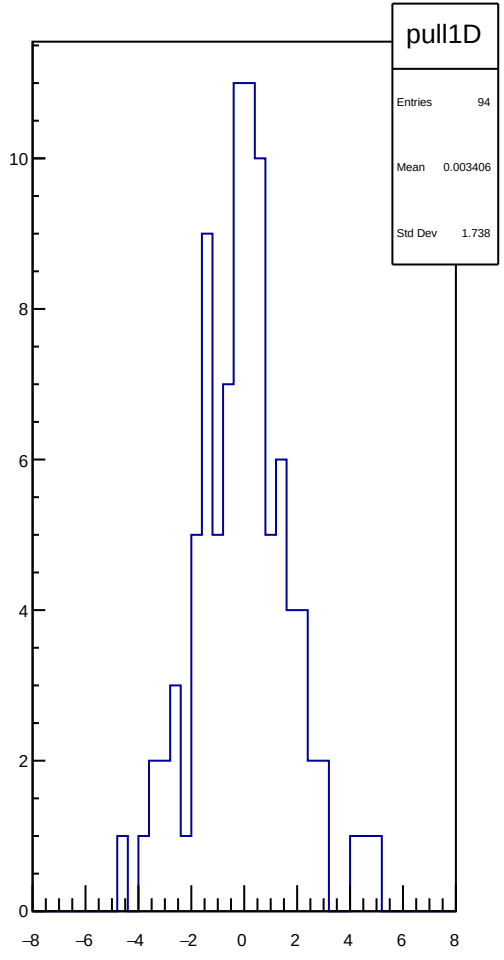

diff_bpm_4eY_4ecY_dd_rms vs run
χ² / ndf 934.8 / 93
p0 1026 ± 0.7607
1200
1150
1100
1050
1000

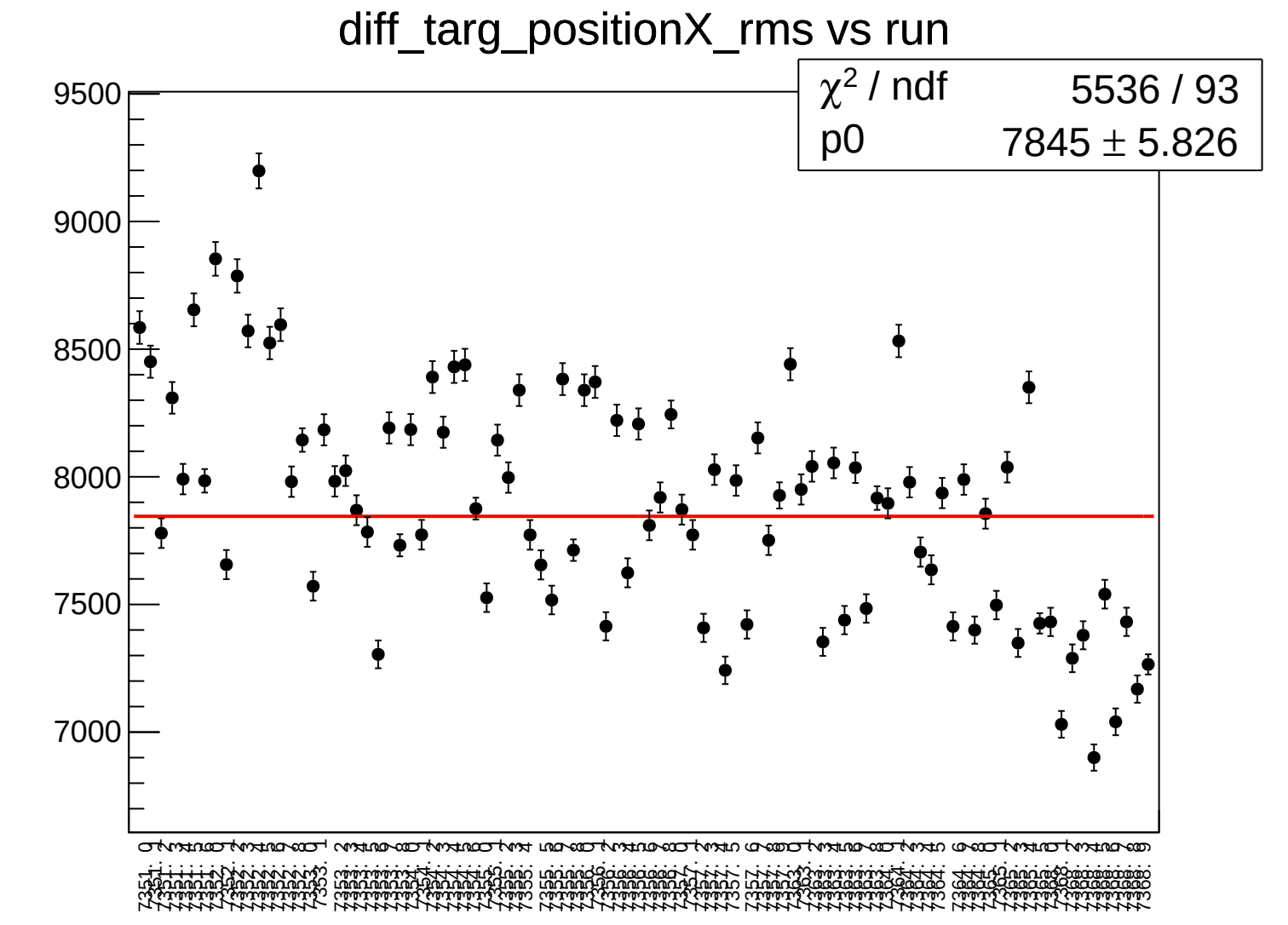

diff_dispE_bpm12X_mean vs run
χ^2 / ndf 75.15 / 93
p0 0.01125 ± 0.01121
pull
Entries 94
Mean −85.7
Std Dev 0

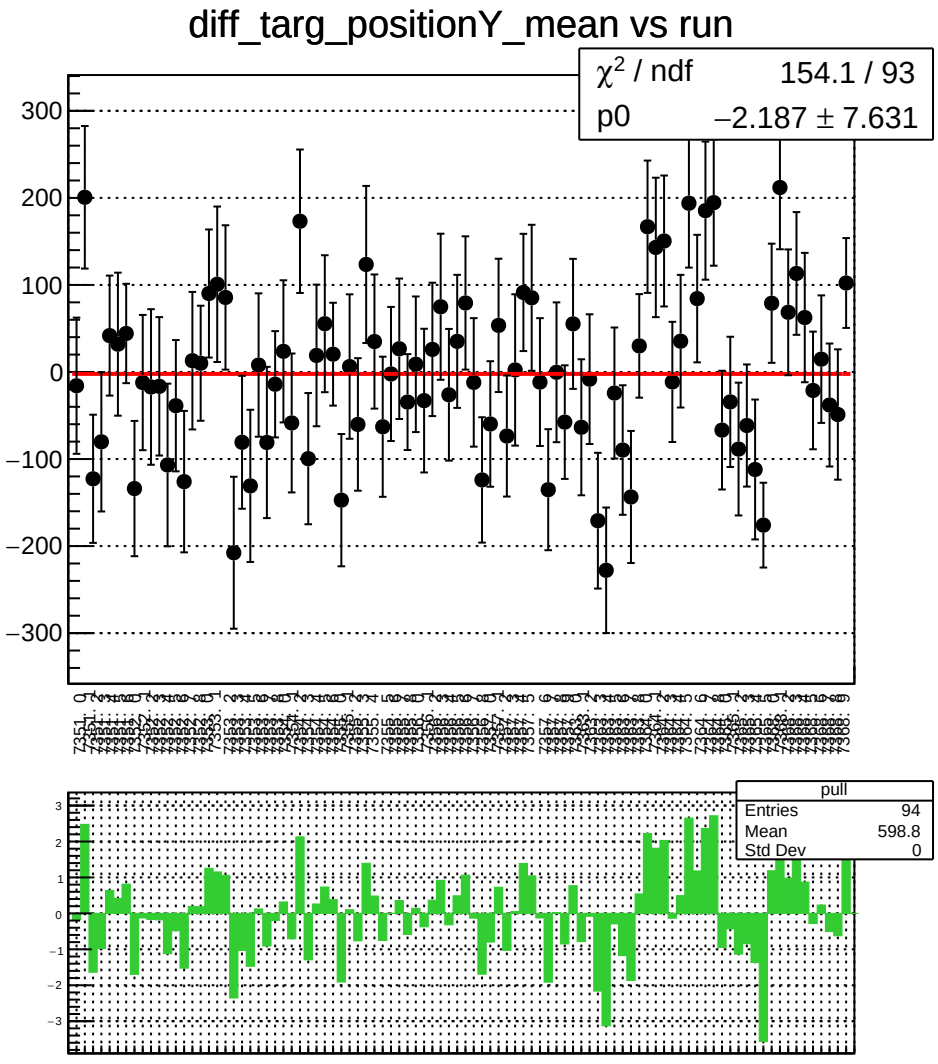

pull1D
Entries 94
Mean 0.01363
Std Dev 0.894

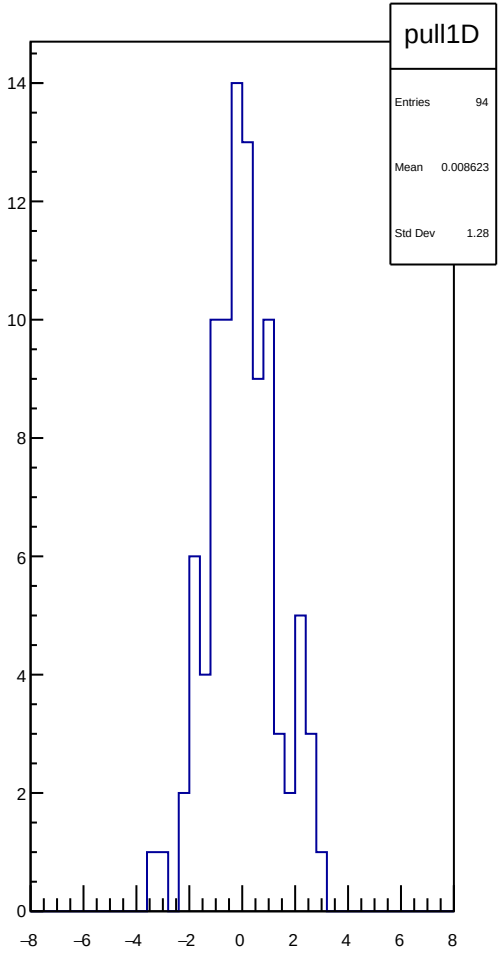

diff_dispE_bpm12X_rms vs run
χ^2 / ndf 1.552e+04 / 93
p0 10.65 ± 0.007929
15
14
13
12
11
10
9

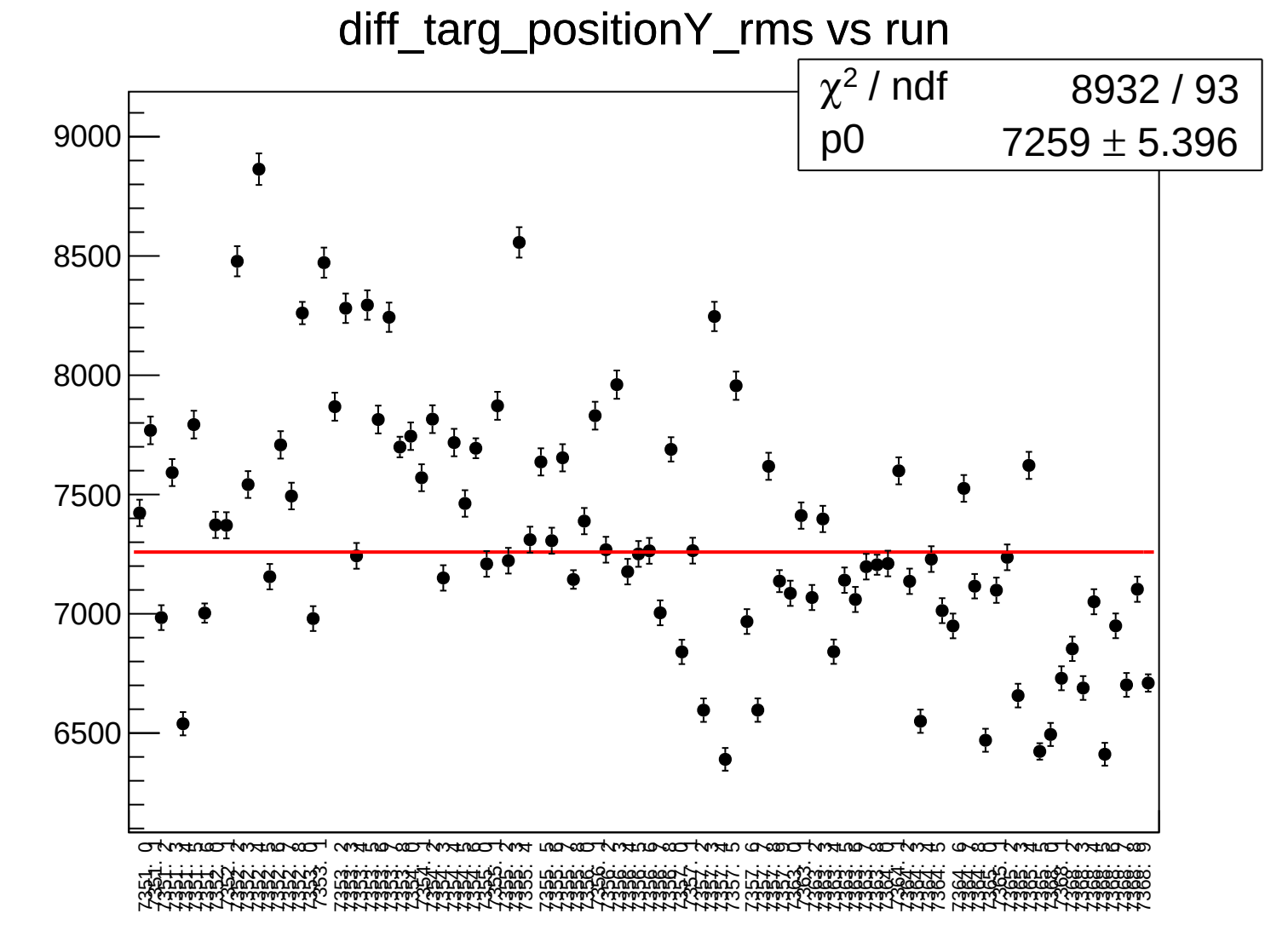

diff_targ_positionX_mean vs run
χ² / ndf 284 / 93
p0 9.426 ± 8.24
600
400
200
0
−200
−400
pull
Entries 94
Mean −859.4
Std Dev 0
4
2
0
−2
−4

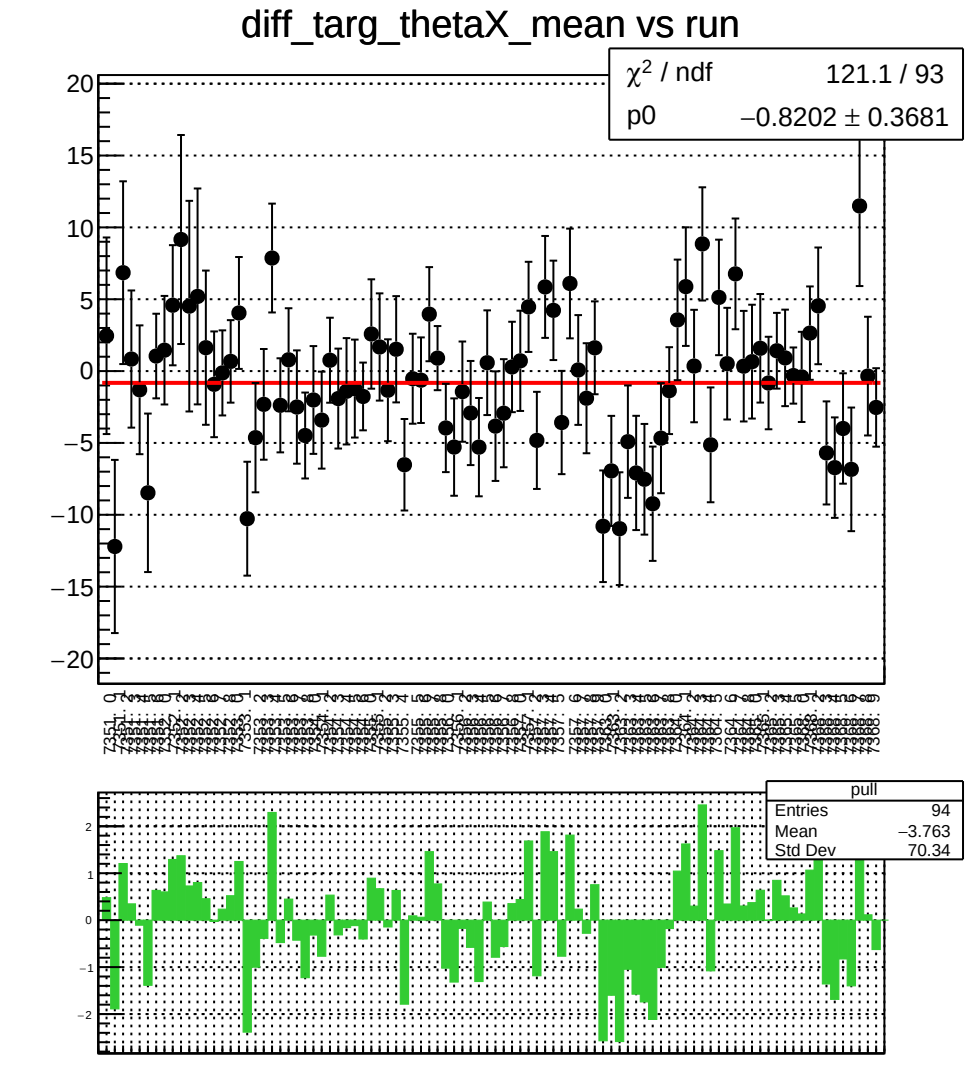

pull1D
Entries 94
Mean 0.003406
Std Dev 1.738
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

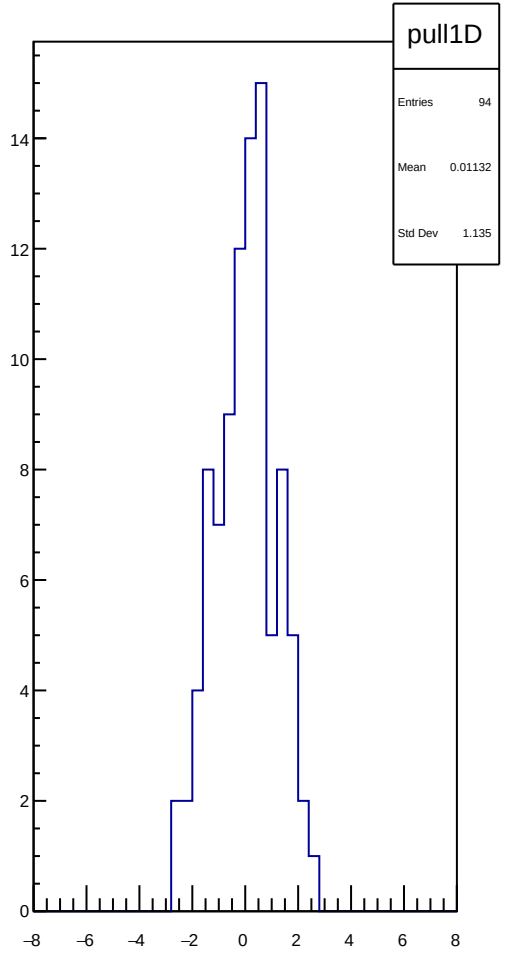

diff_targ_positionX_rms vs run
χ^2 / ndf 5536 / 93
p0 7845 ± 5.826
9500
9000
8500
8000
7500
7000

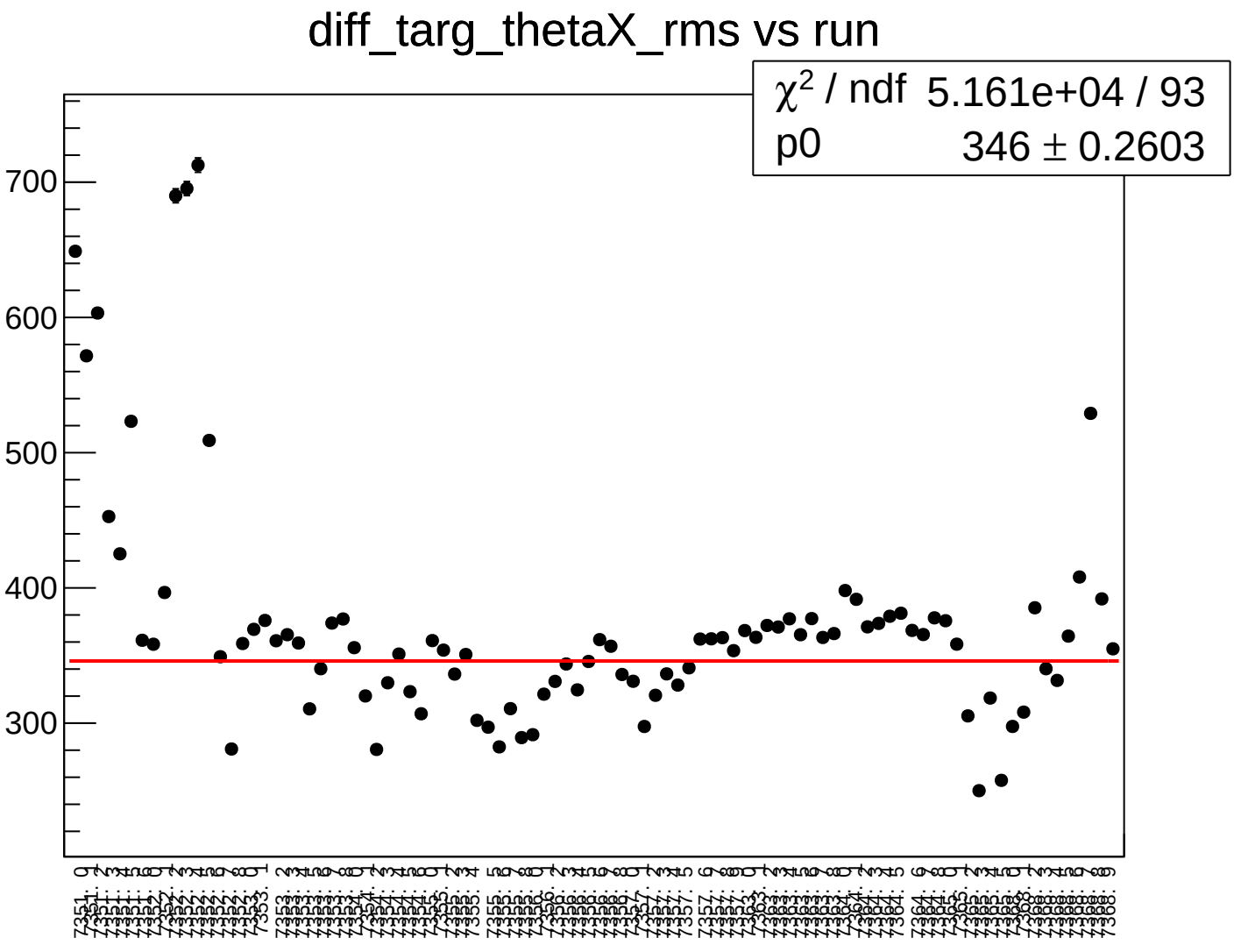

diff_targ_positionY_mean vs run
χ² / ndf 154.1 / 93
p0 −2.187 ± 7.631
pull
Entries 94
Mean 598.8
Std Dev 0

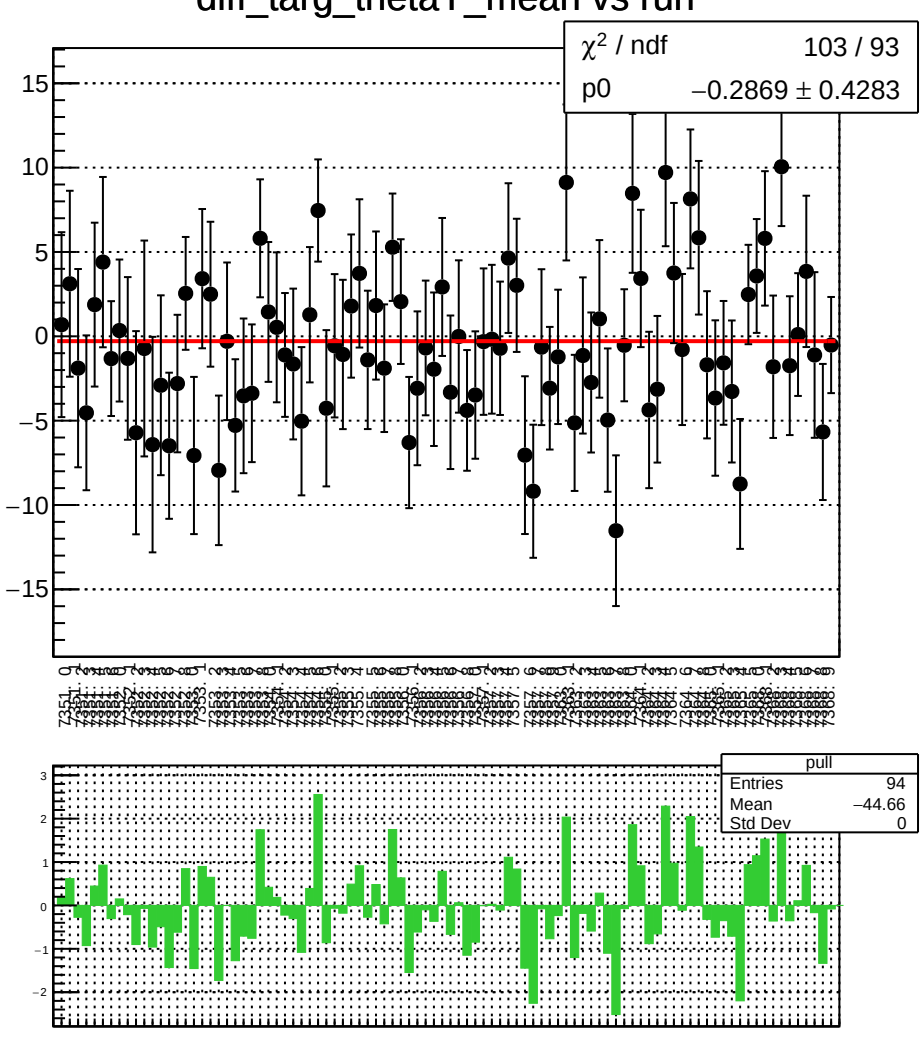

pull1D
Entries 94
Mean 0.008623
Std Dev 1.28

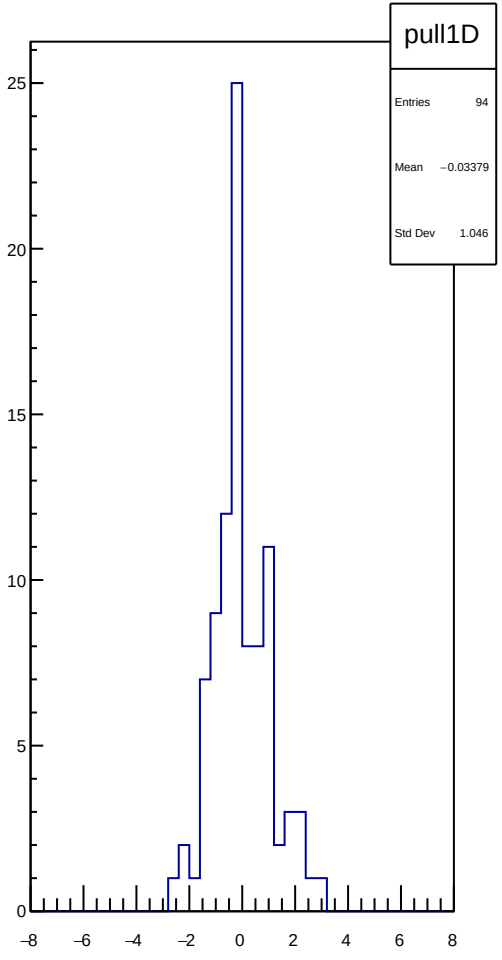

diff_targ_positionY_rms vs run
χ^2 / ndf 8932 / 93
p0 7259 ± 5.396
9000
8500
8000
7500
7000
6500

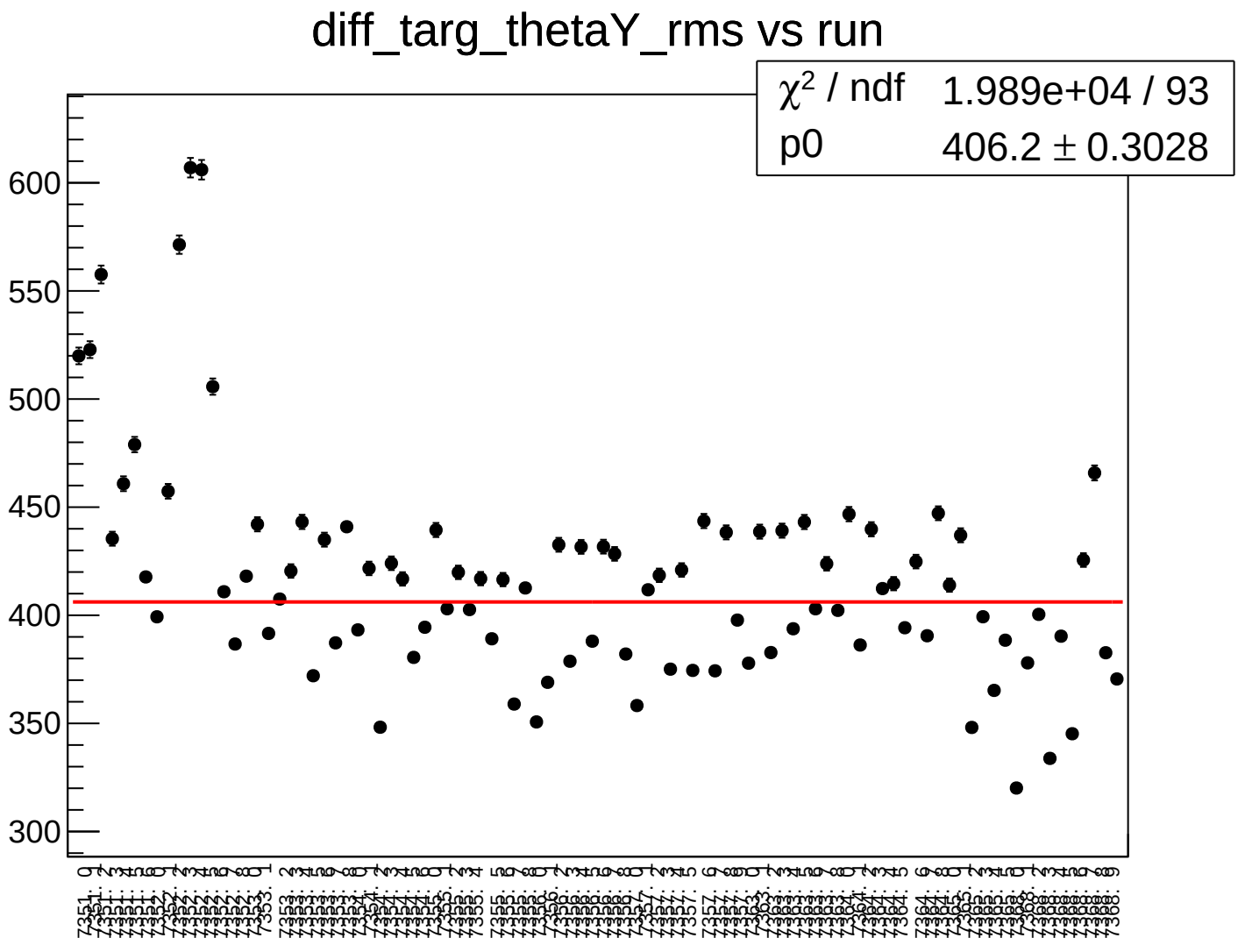

diff_targ_thetaX_mean vs run
χ² / ndf 121.1 / 93
p0 −0.8202 ± 0.3681
pull
Entries 94
Mean −3.763
Std Dev 70.34

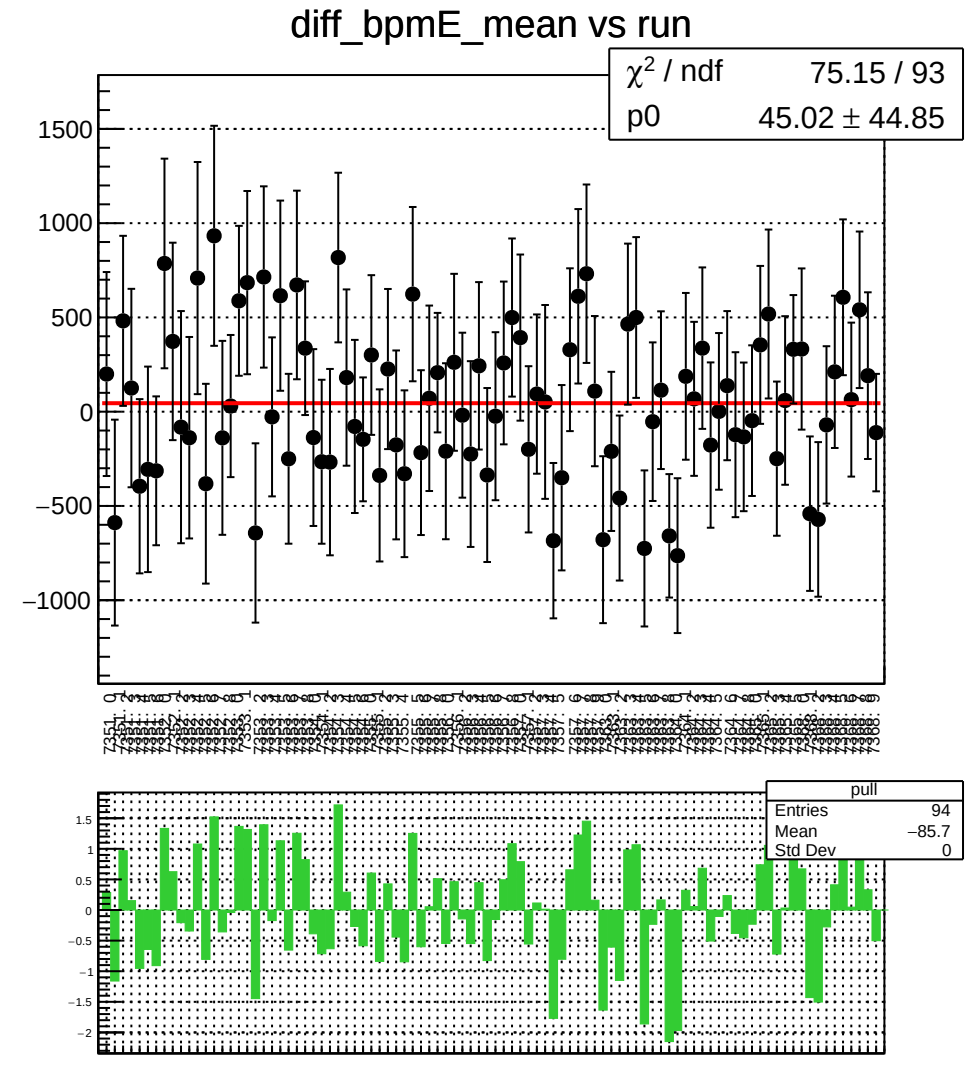

pull1D
Entries 94
Mean 0.01132
Std Dev 1.135

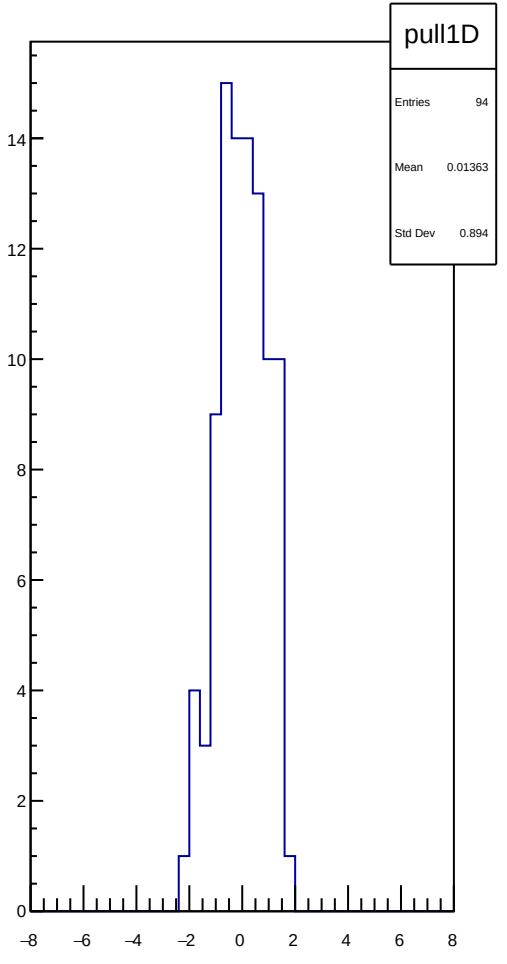

diff_targ_thetaX_rms vs run
χ^2 / ndf 5.161e+04 / 93
p0 346 ± 0.2603
700
600
500
400
300

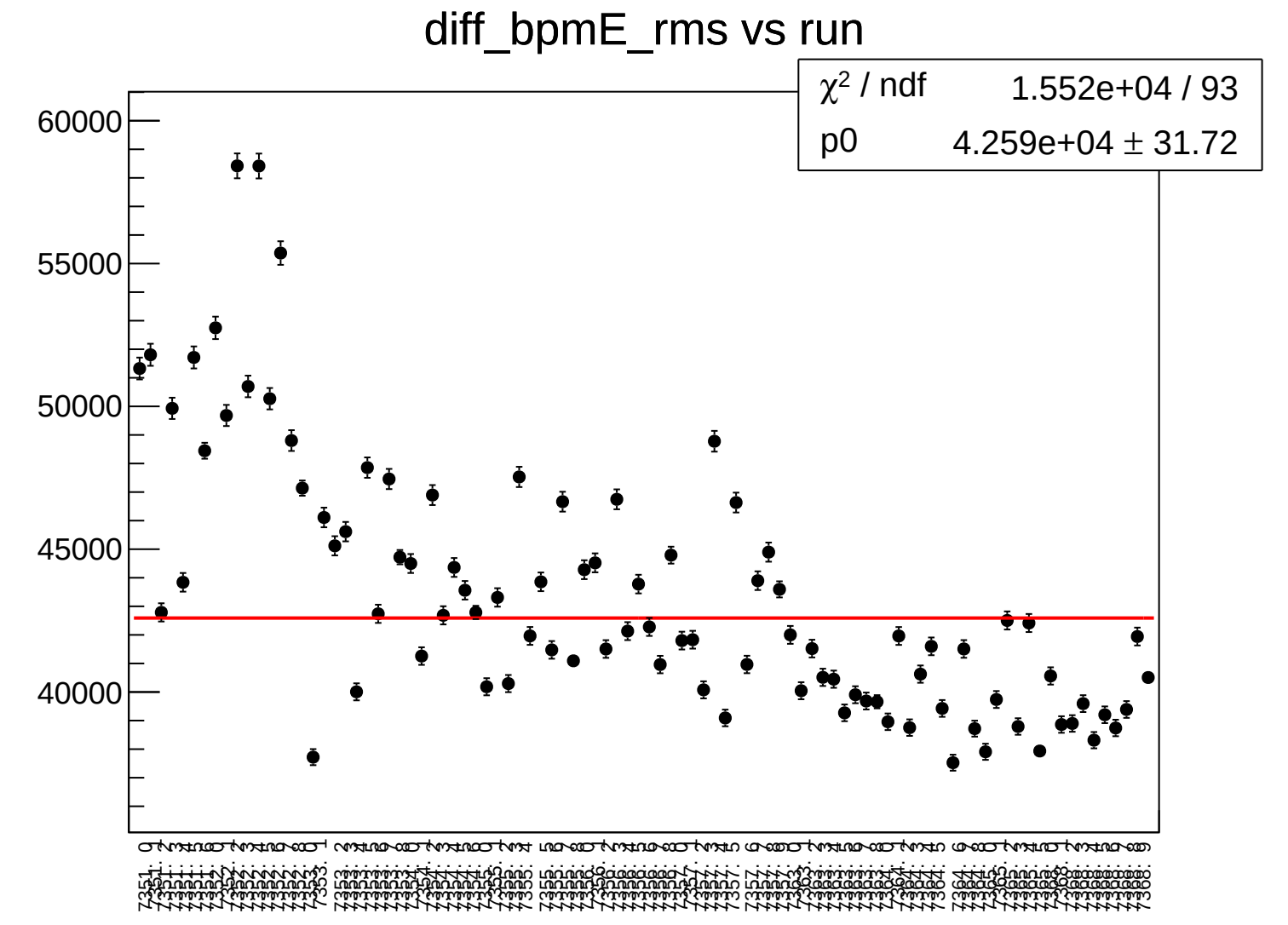

diff_targ_thetaY_mean vs run
χ² / ndf 103 / 93
p0 −0.2869 ± 0.4283
pull
Entries 94
Mean −44.66
Std Dev 0

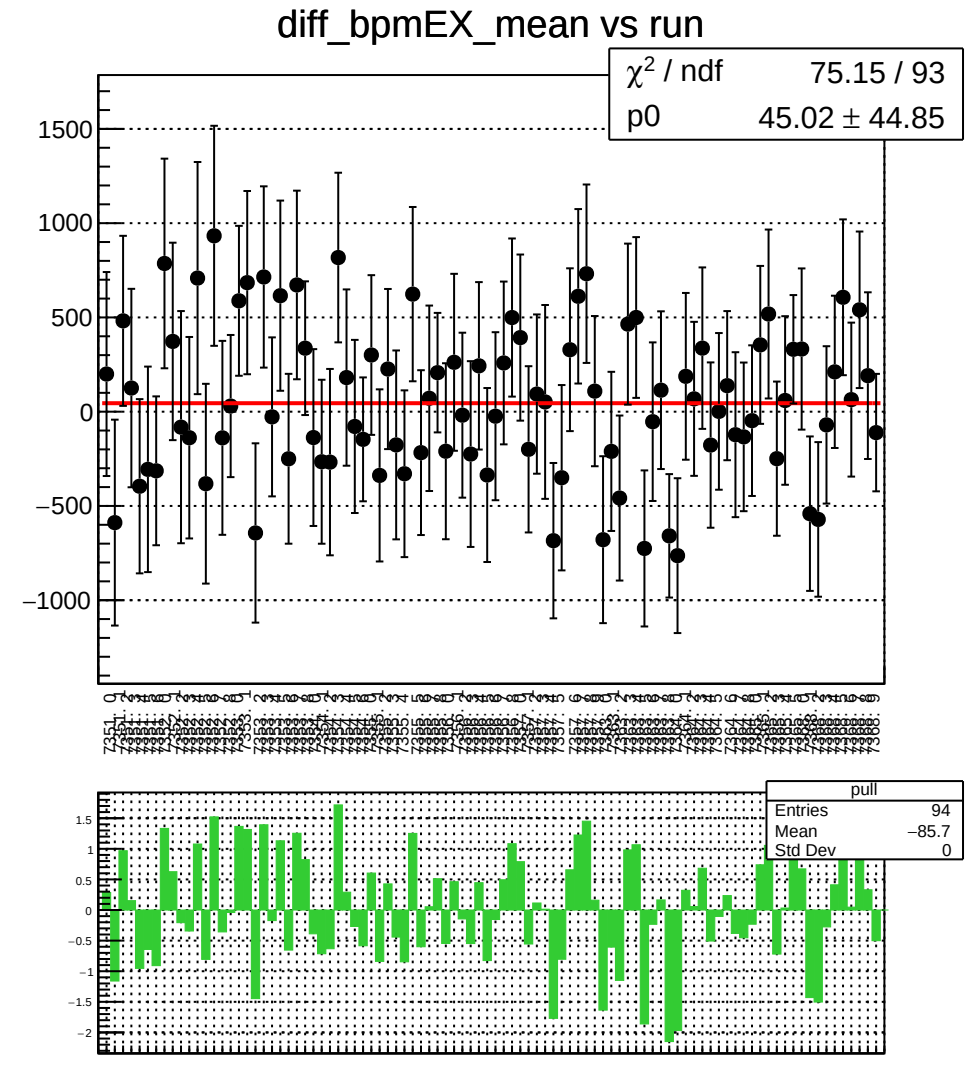

pull1D
Entries 94
Mean −0.03379
Std Dev 1.046

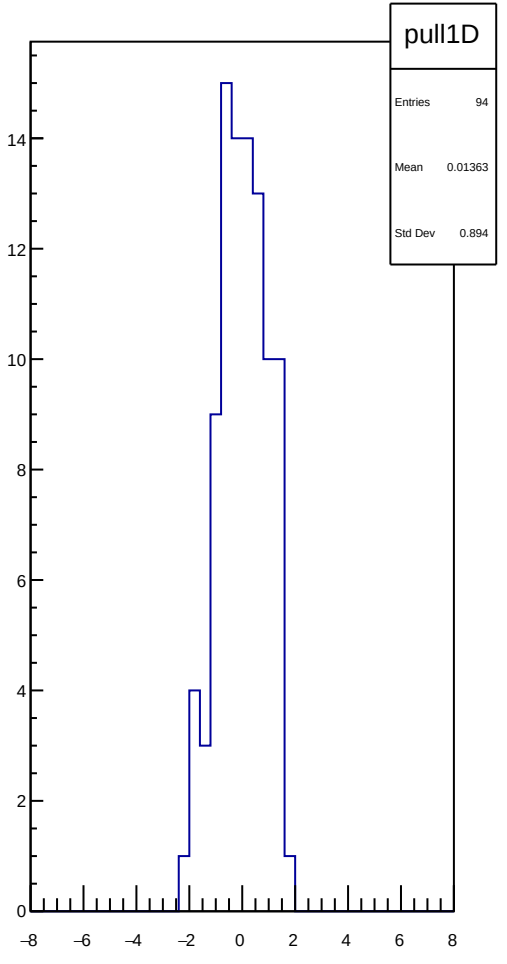

diff_targ_thetaY_rms vs run
χ^2 / ndf 1.989e+04 / 93
p0 406.2 ± 0.3028
600
550
500
450
400
350
300

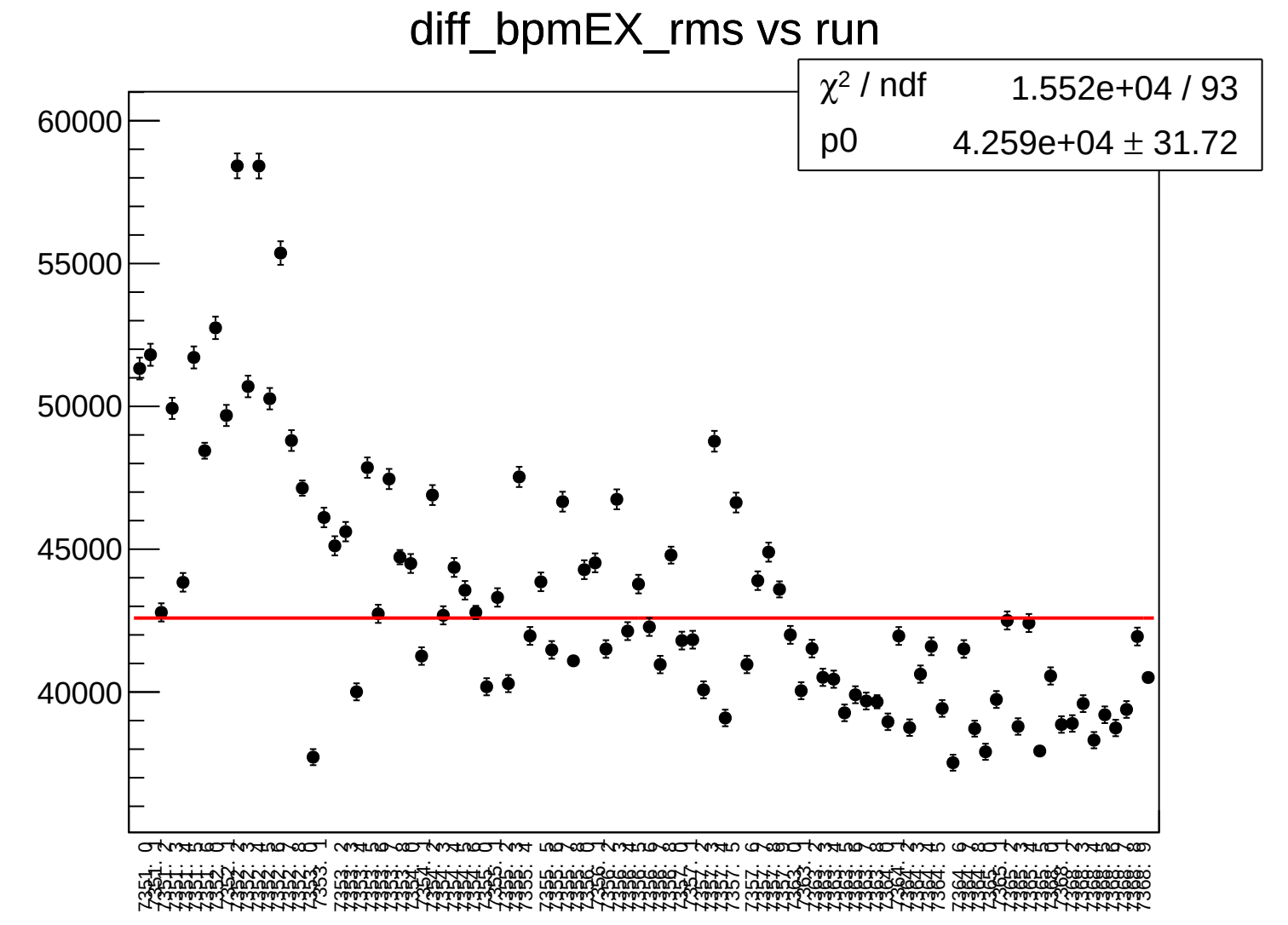

diff_bpmE_mean vs run
χ² / ndf 75.15 / 93
p0 45.02 ± 44.85
1500
1000
500
0
−500
−1000
pull
Entries 94
Mean −85.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

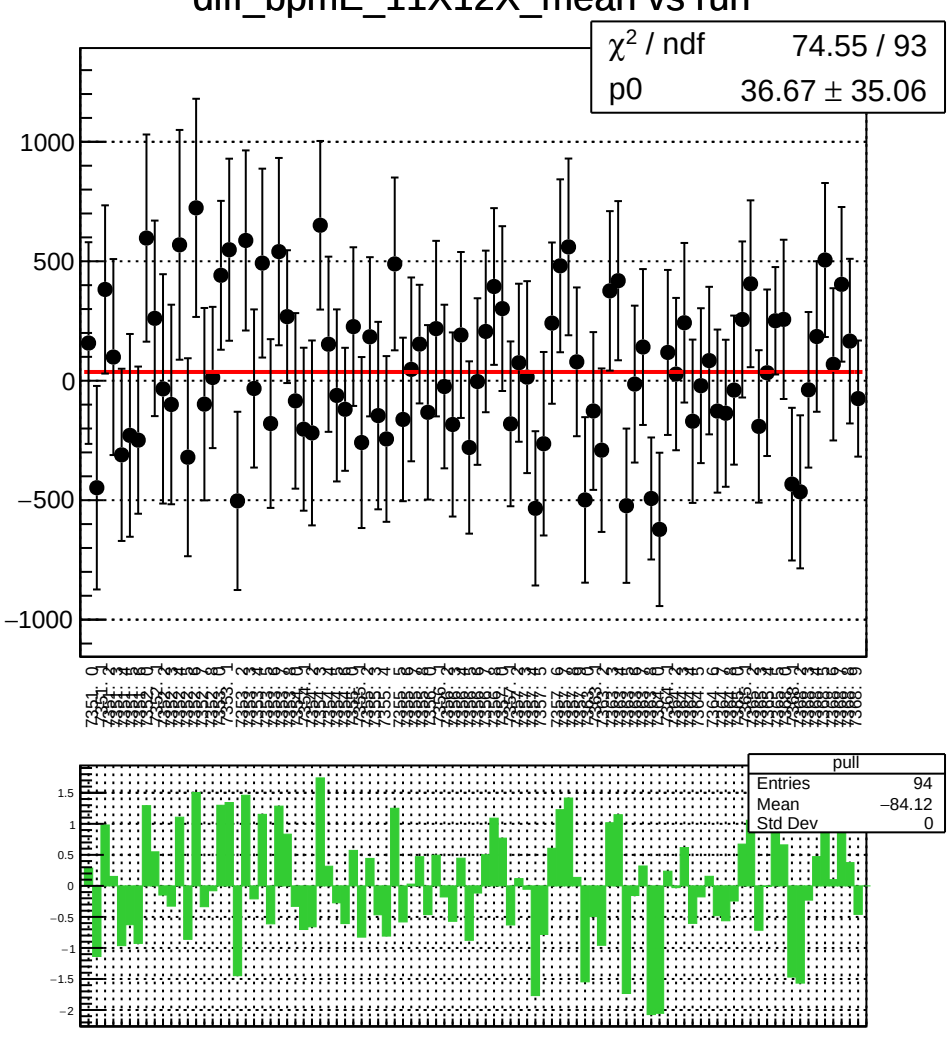

pull1D
Entries 94
Mean 0.01363
Std Dev 0.894
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

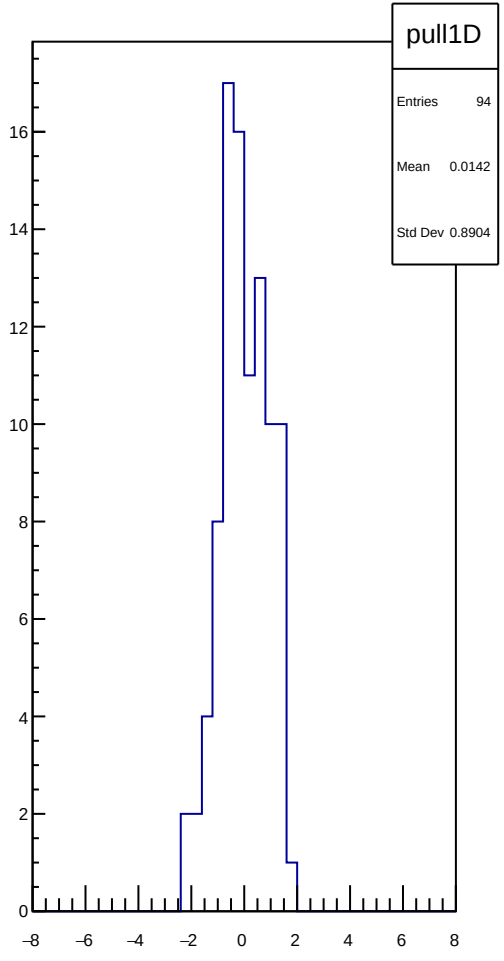

diff_bpmE_rms vs run
χ² / ndf 1.552e+04 / 93
p0 4.259e+04 ± 31.72
60000
55000
50000
45000
40000

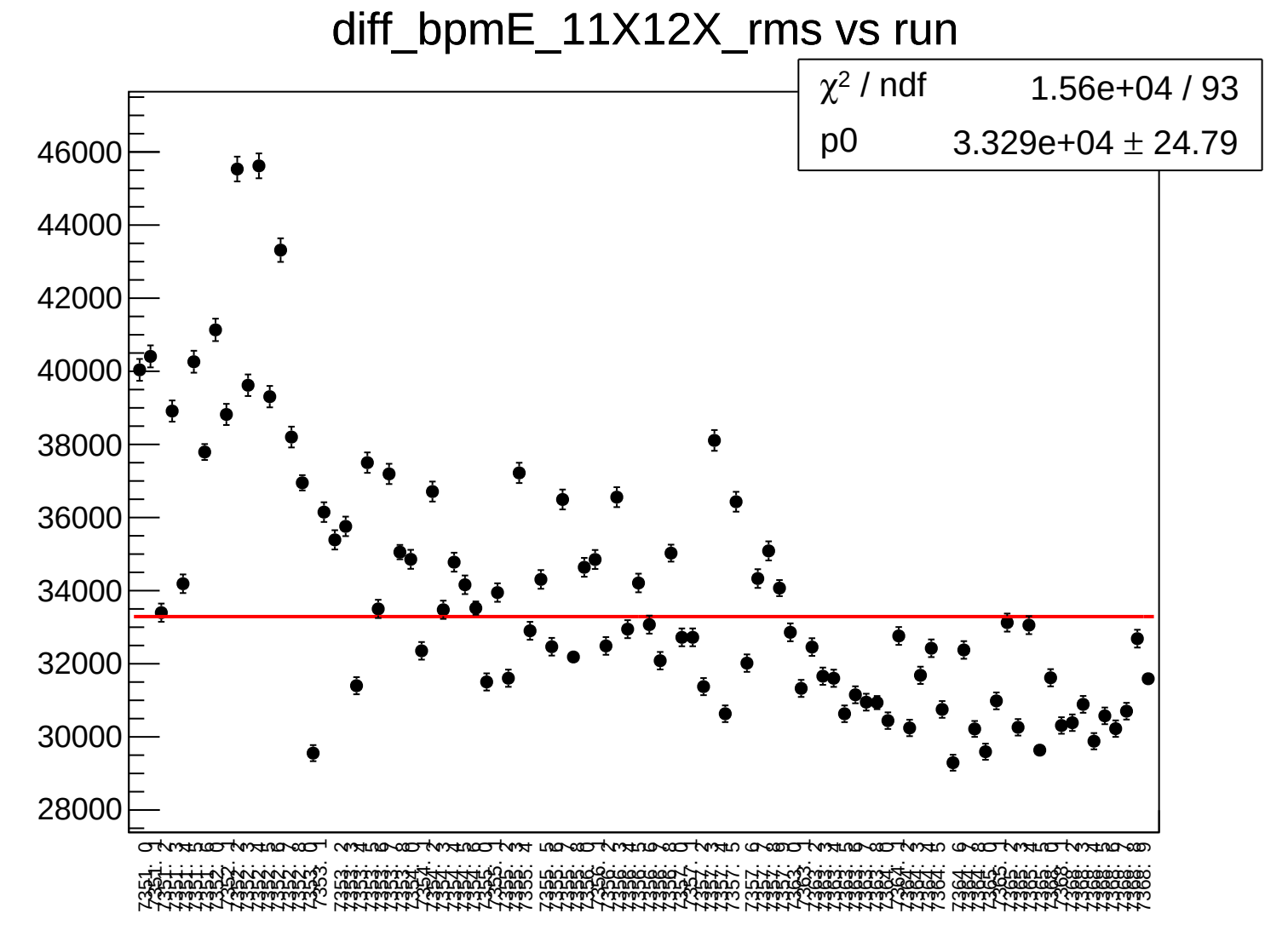

diff_bpmEX_mean vs run
χ² / ndf 75.15 / 93
p0 45.02 ± 44.85
1500
1000
500
0
−500
−1000
pull
Entries 94
Mean −85.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

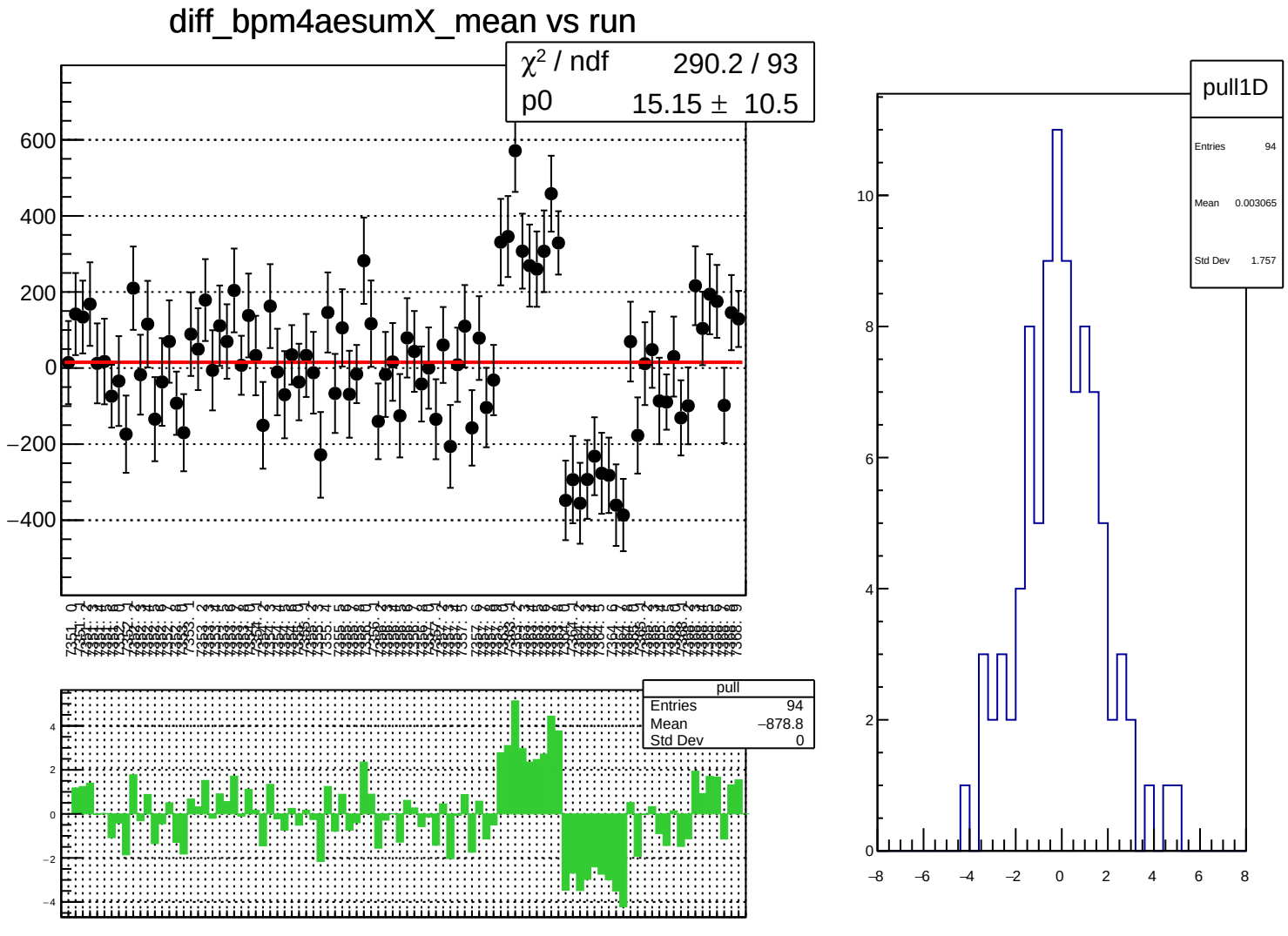

pull1D
Entries 94
Mean 0.01363
Std Dev 0.894
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

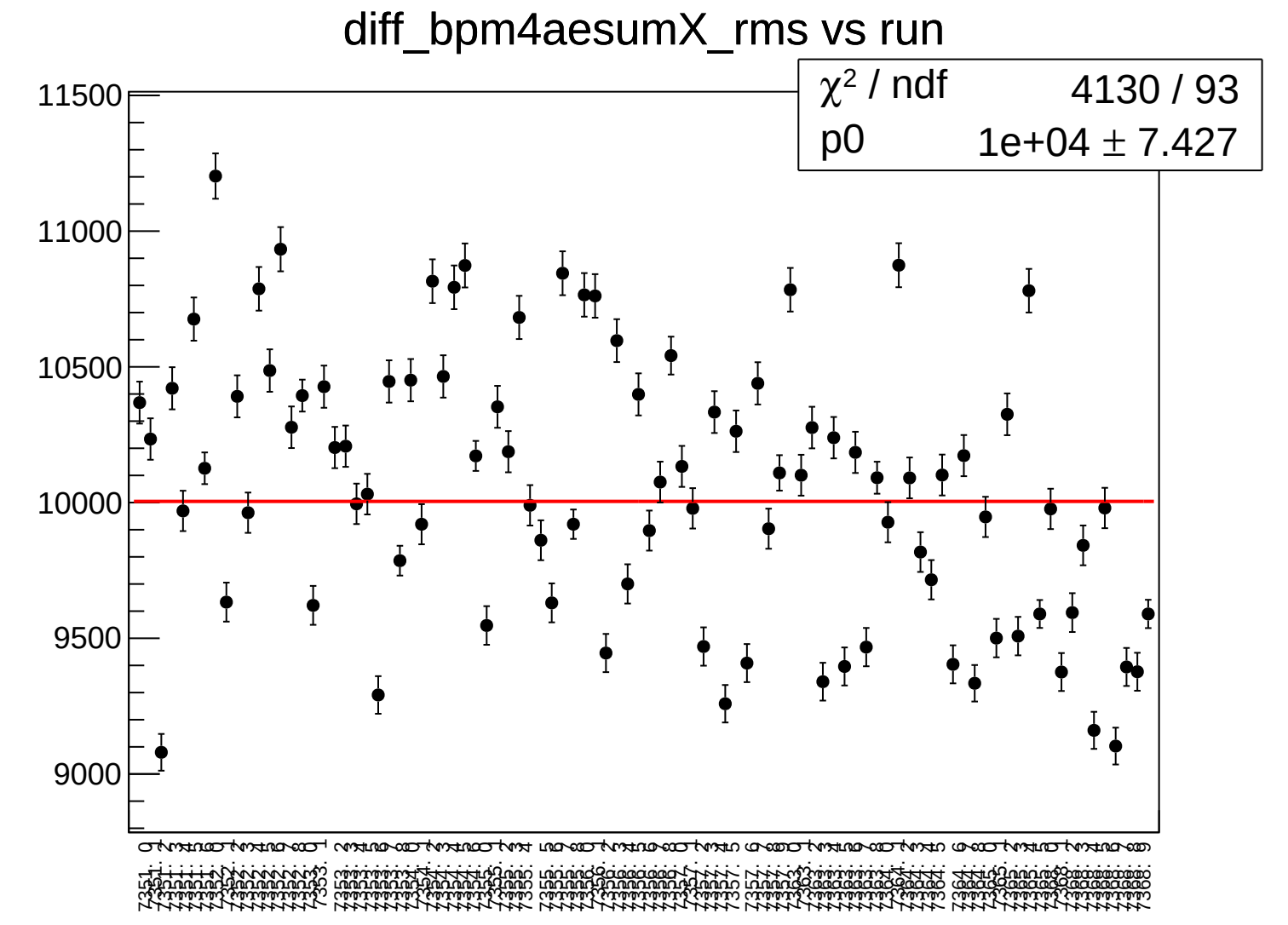

diff_bpmEX_rms vs run
χ² / ndf 1.552e+04 / 93
p0 4.259e+04 ± 31.72
60000
55000
50000
45000
40000

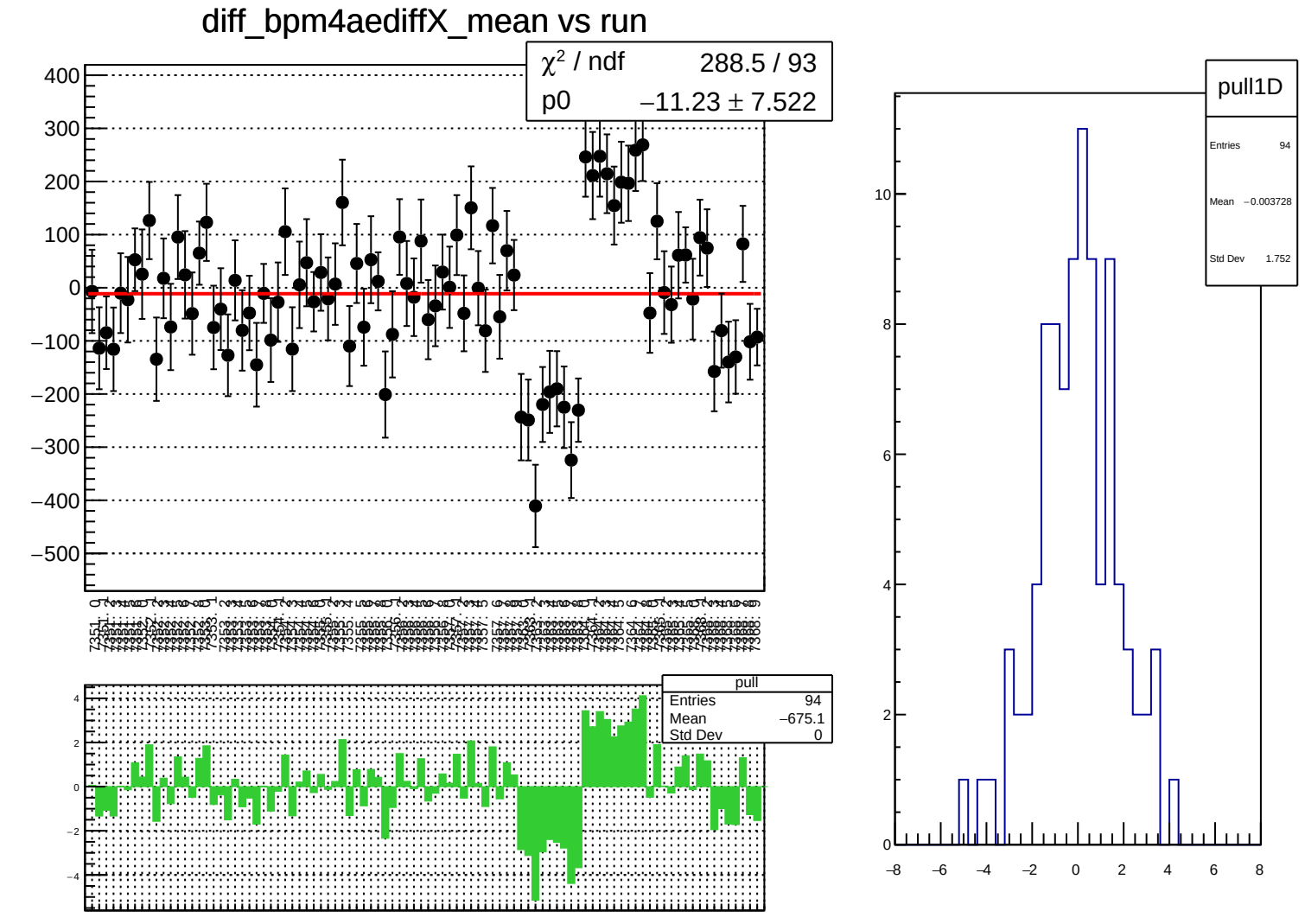

diff_bpmE_11X12X_mean vs run
χ² / ndf 74.55 / 93
p0 36.67 ± 35.06
1000
500
0
−500
−1000
pull
Entries 94
Mean −84.12
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

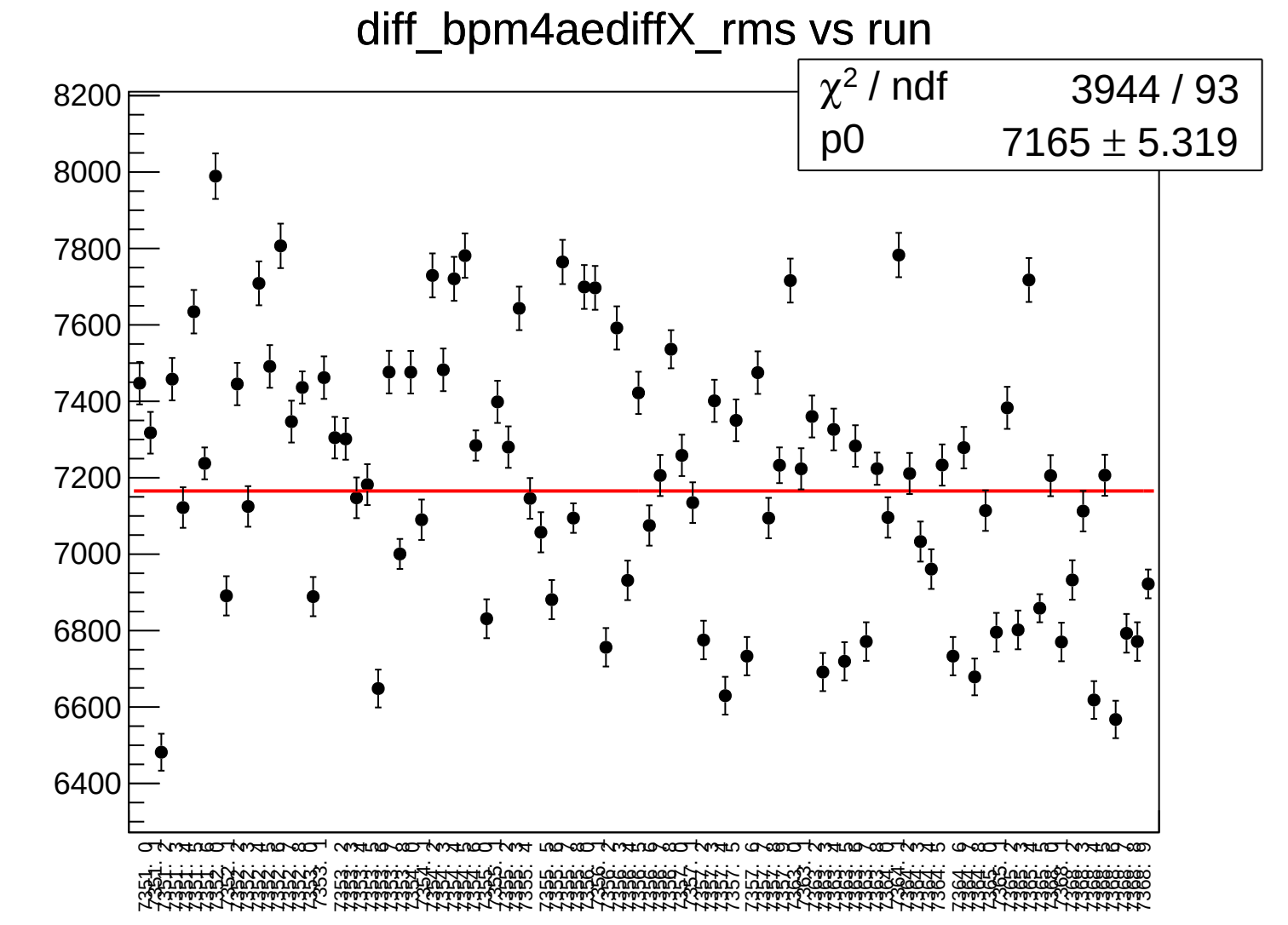

pull1D
Entries 94
Mean 0.0142
Std Dev 0.8904
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

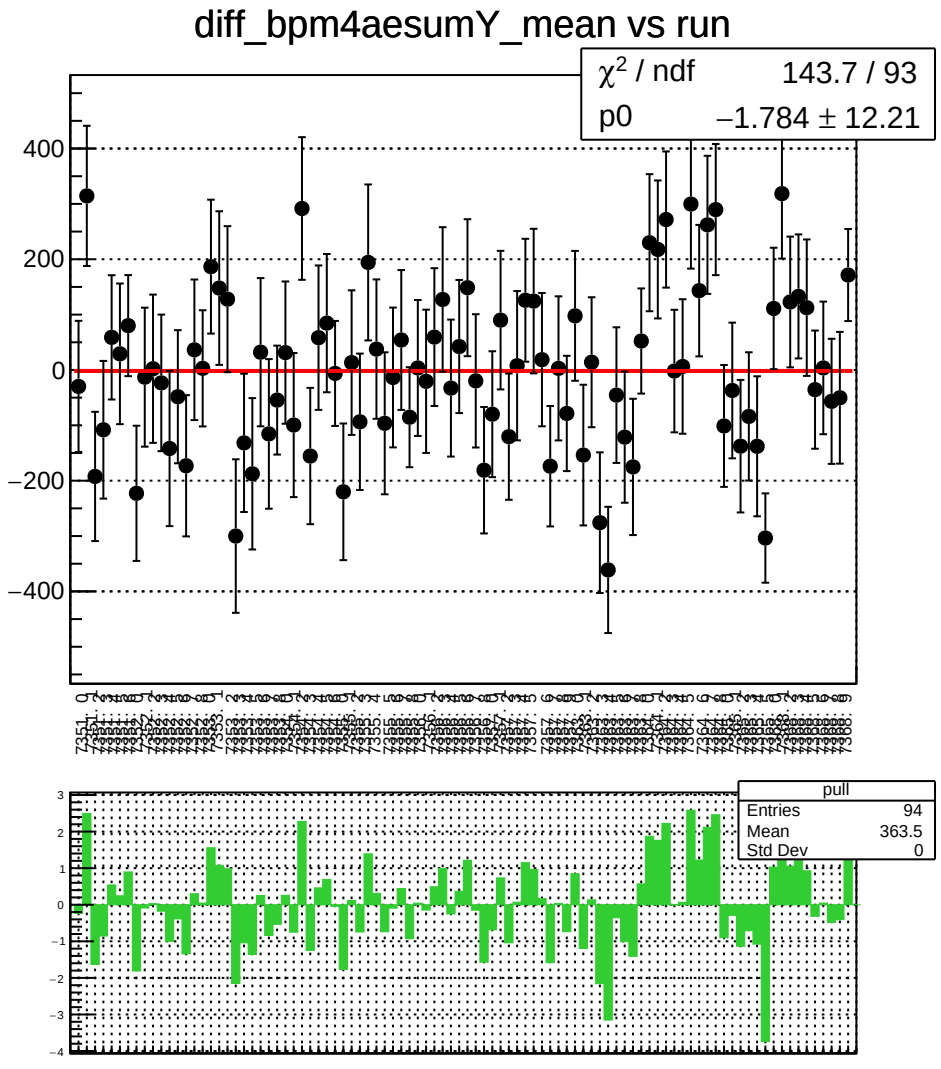

diff_bpmE_11X12X_rms vs run
χ² / ndf 1.56e+04 / 93
p0 3.329e+04 ± 24.79
46000
44000
42000
40000
38000
36000
34000
32000
30000
28000

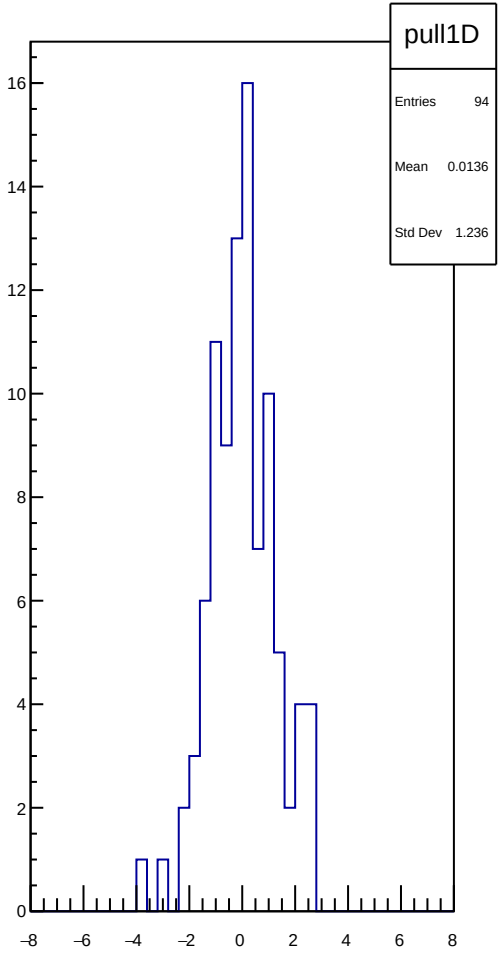

diff_bpm4aesumX_mean vs run
χ² / ndf 290.2 / 93
p0 15.15 ± 10.5
600
400
200
0
−200
−400
pull
Entries 94
Mean −878.8
Std Dev 0
4
2
0
−2
−4
pull1D
Entries 94
Mean 0.003065
Std Dev 1.757
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

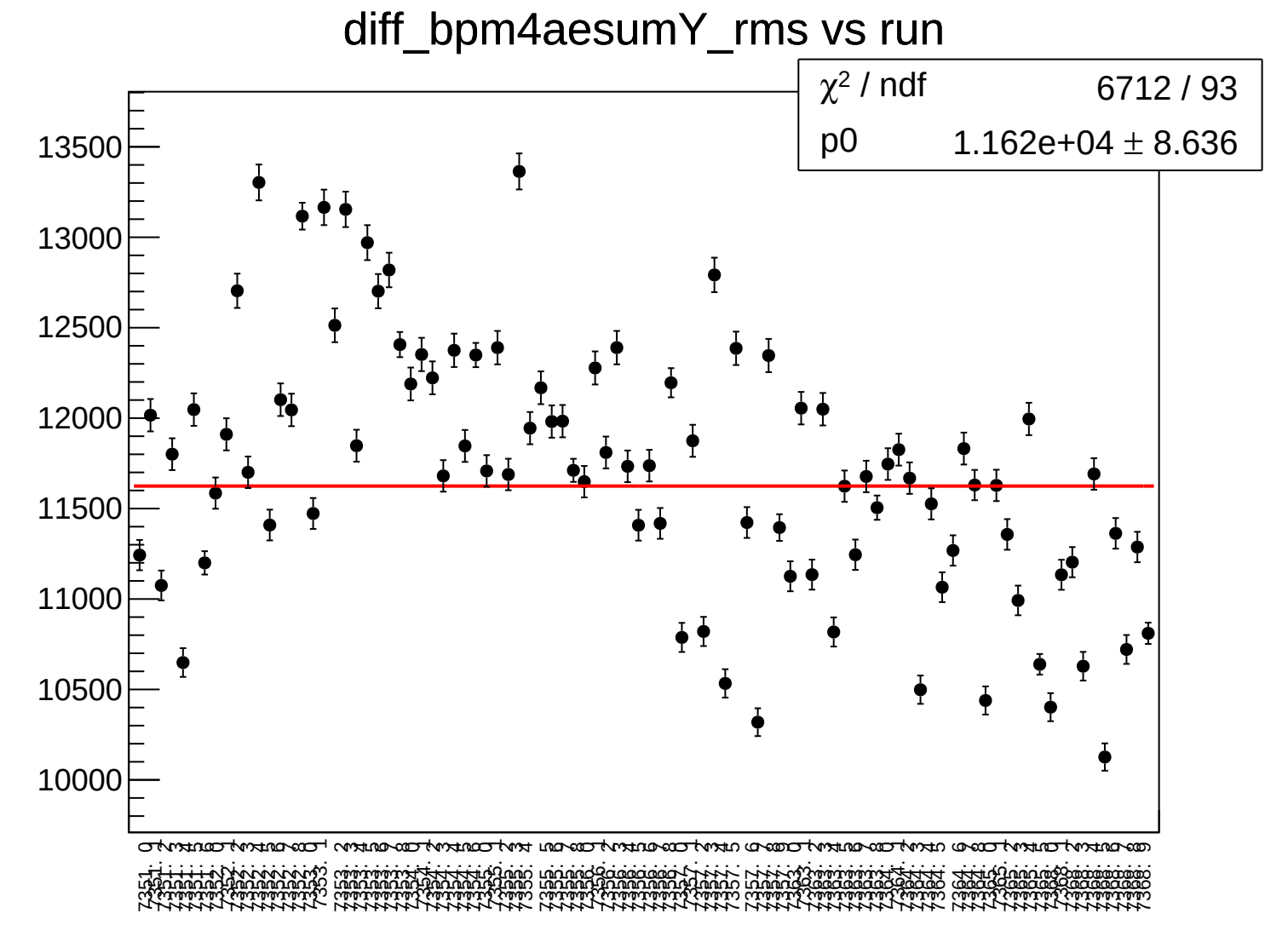

diff_bpm4aesumX_rms vs run
χ² / ndf 4130 / 93
p0 1e+04 ± 7.427
11500
11000
10500
10000
9500
9000

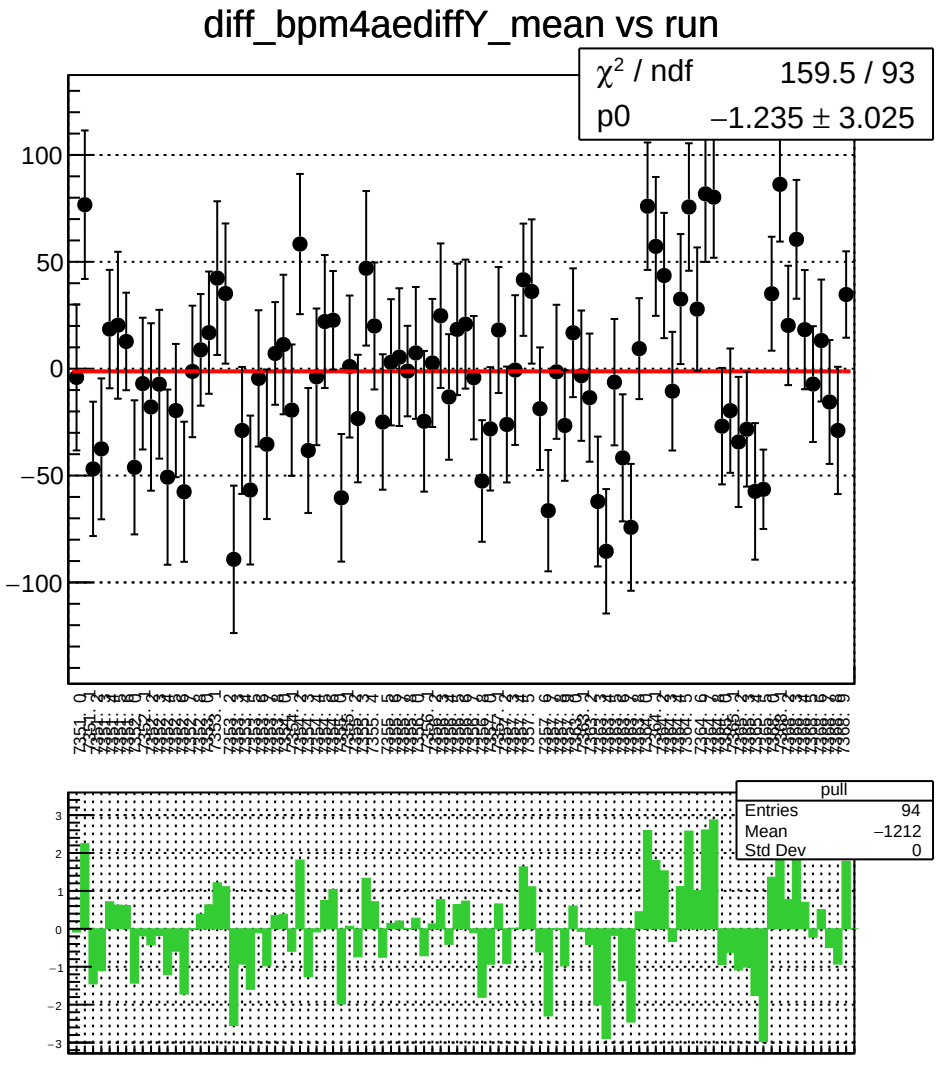

diff_bpm4aediffX_mean vs run
χ² / ndf 288.5 / 93
p0 −11.23 ± 7.522
pull
Entries 94
Mean −675.1
Std Dev 0
pull1D
Entries 94
Mean −0.003728
Std Dev 1.752

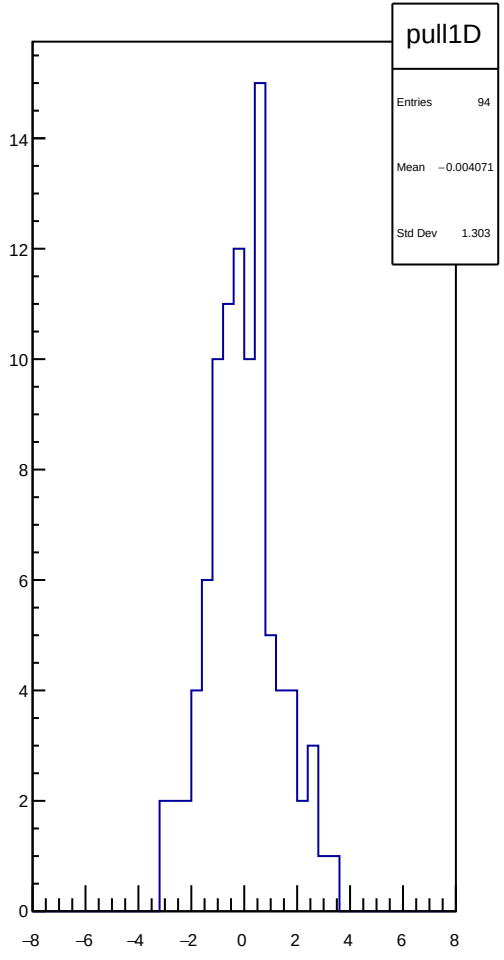

diff_bpm4aediffX_rms vs run
χ^2 / ndf 3944 / 93
p0 7165 ± 5.319
8200
8000
7800
7600
7400
7200
7000
6800
6600
6400

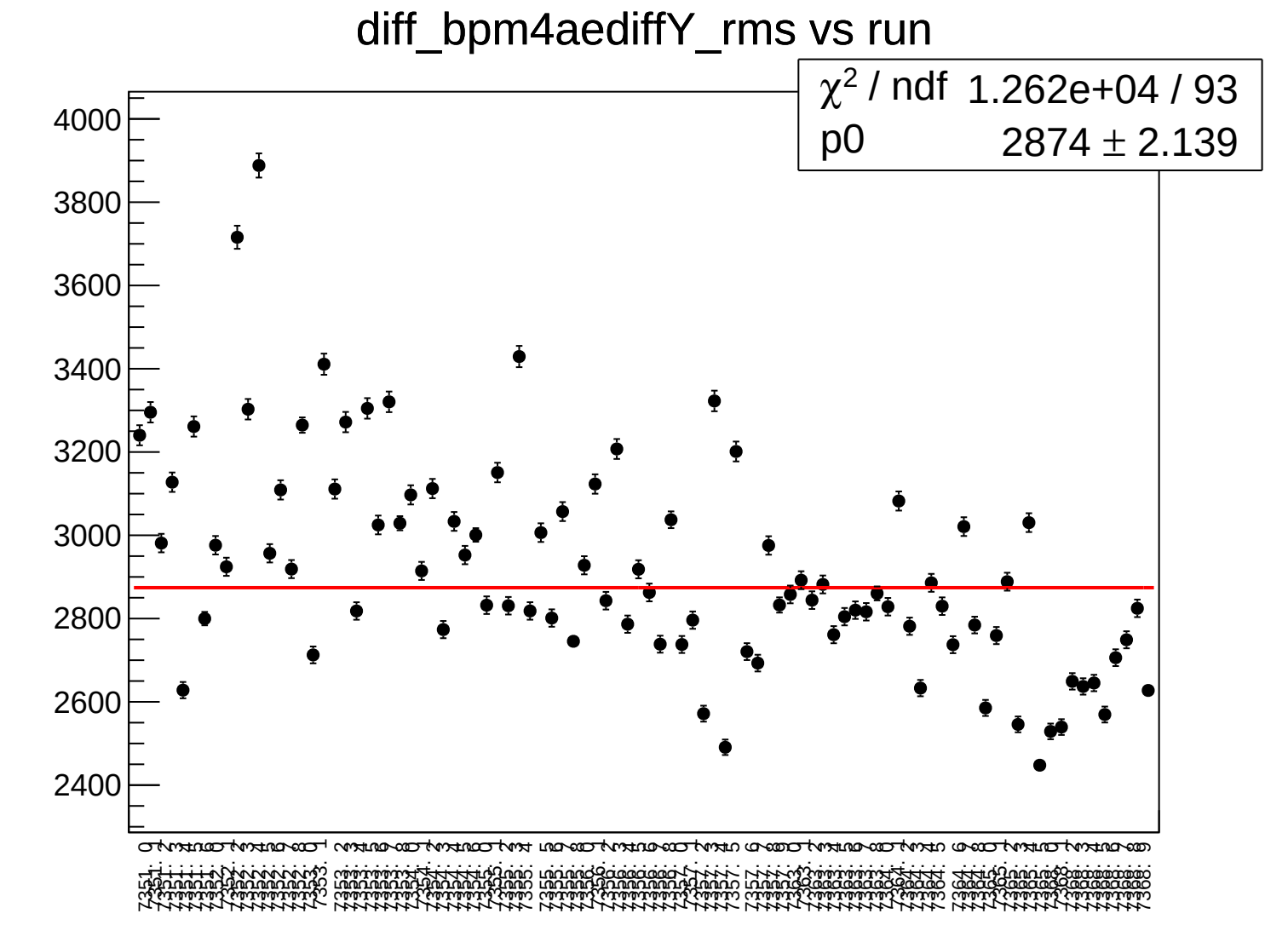

diff_bpm4aesumY_mean vs run
χ² / ndf 143.7 / 93
p0 −1.784 ± 12.21
400
200
0
−200
−400
pull
Entries 94
Mean 363.5
Std Dev 0
3
2
1
0
−1
−2
−3
−4

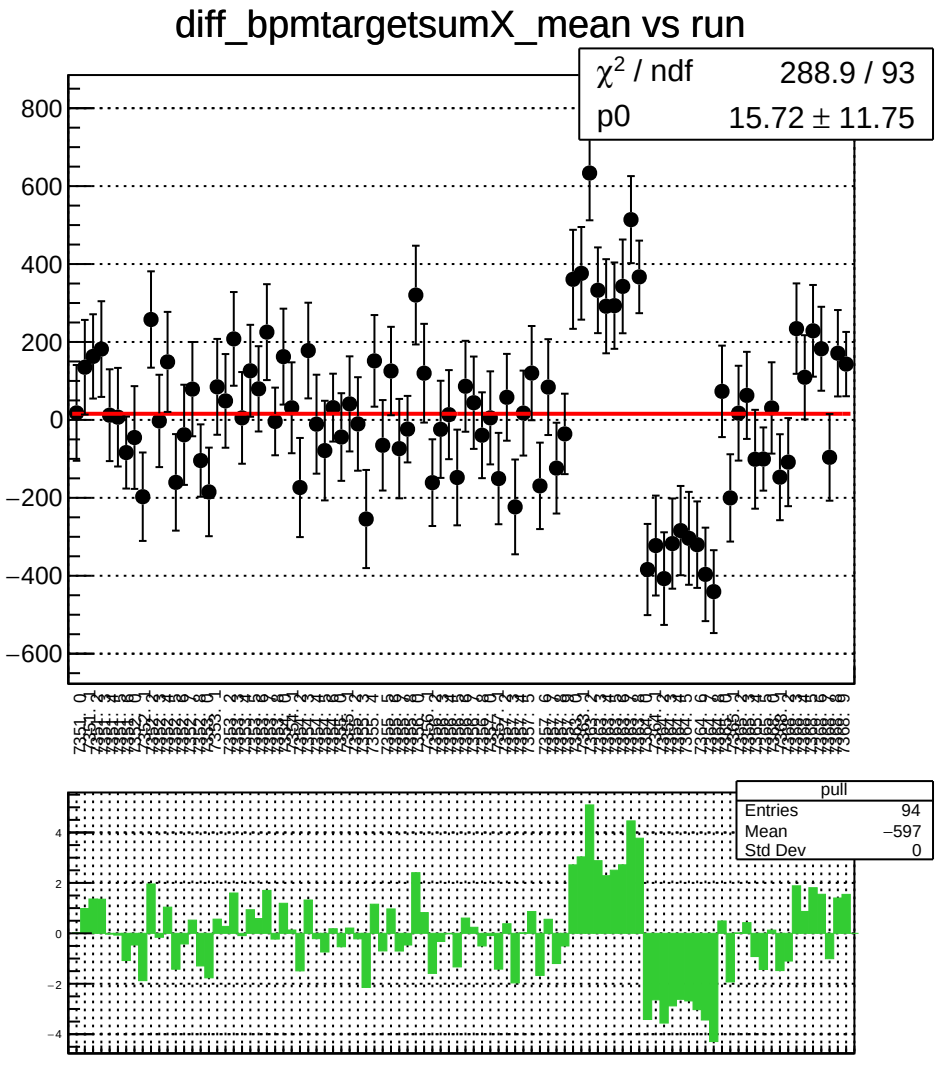

pull1D
Entries 94
Mean 0.0136
Std Dev 1.236
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

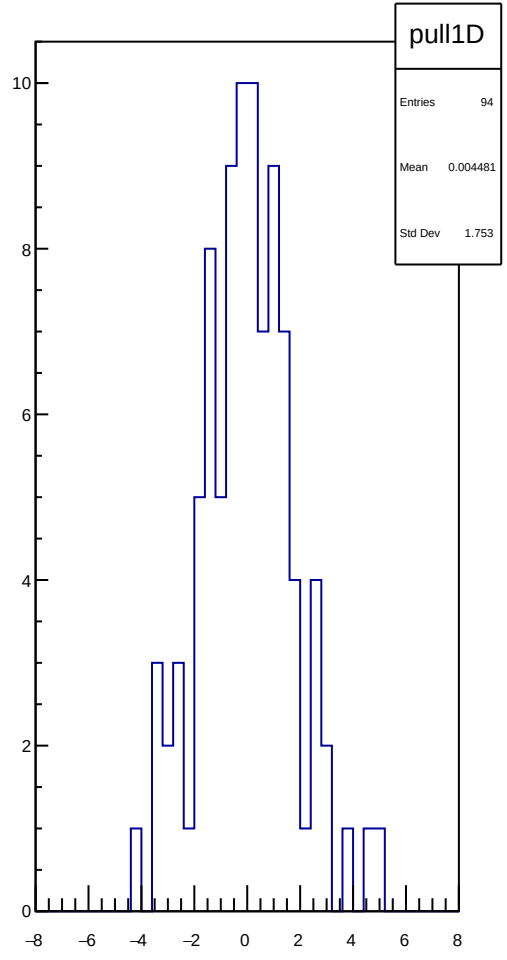

diff_bpm4aesumY_rms vs run
χ² / ndf 6712 / 93
p0 1.162e+04 ± 8.636
13500
13000
12500
12000
11500
11000
10500
10000

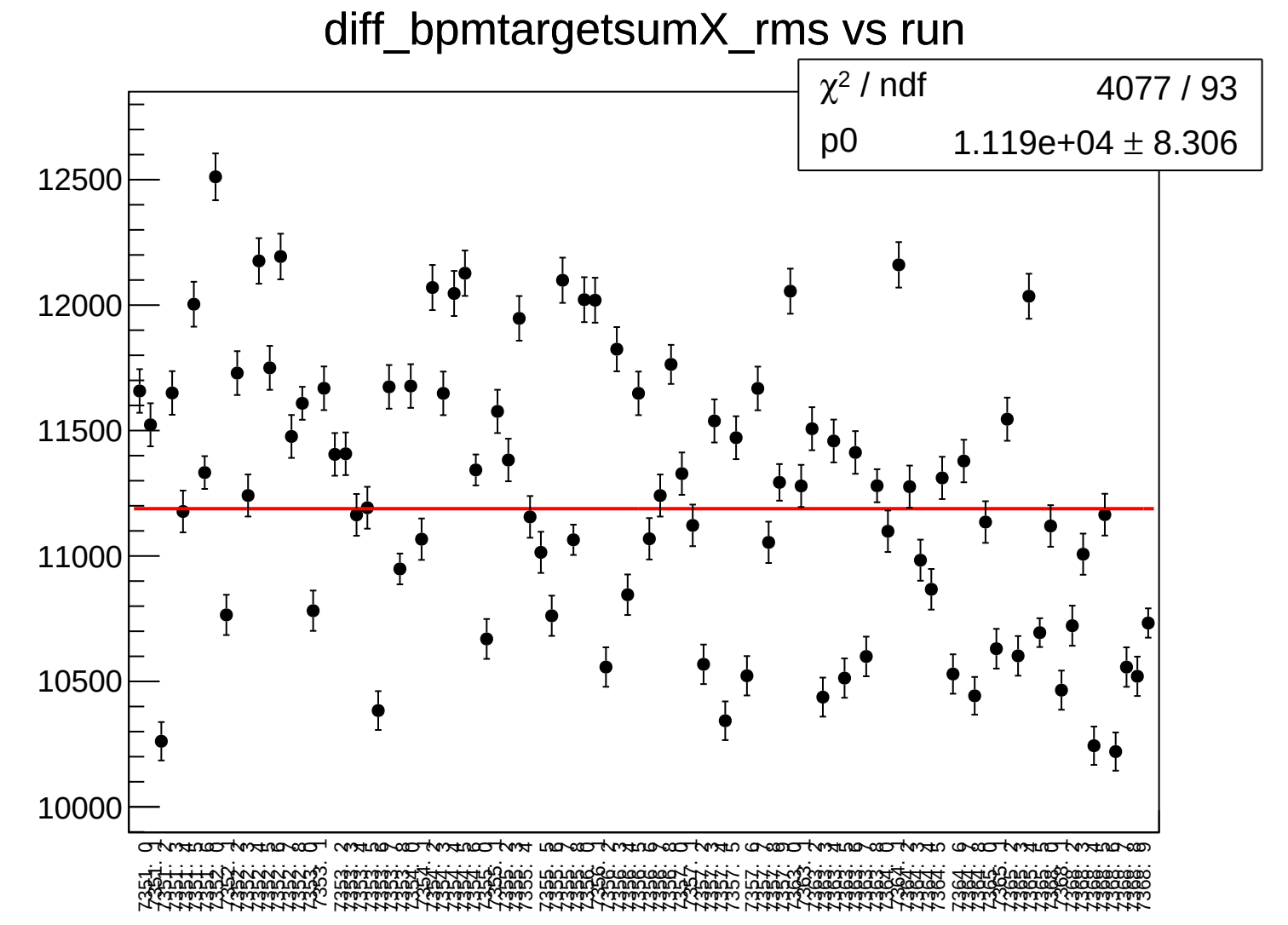

diff_bpm4aediffY_mean vs run
χ² / ndf 159.5 / 93
p0 −1.235 ± 3.025
100
50
0
−50
−100
pull
Entries 94
Mean −1212
Std Dev 0
3
2
1
0
−1
−2
−3

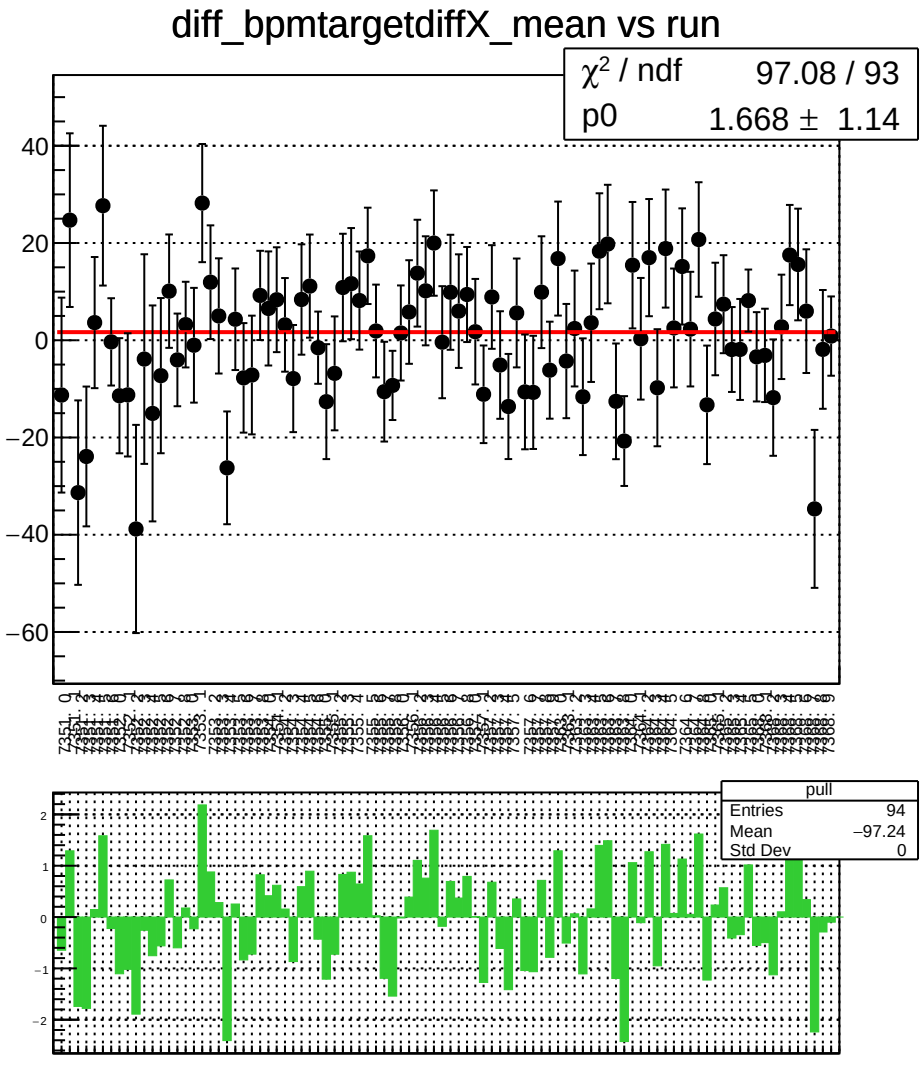

pull1D
Entries 94
Mean −0.004071
Std Dev 1.303
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

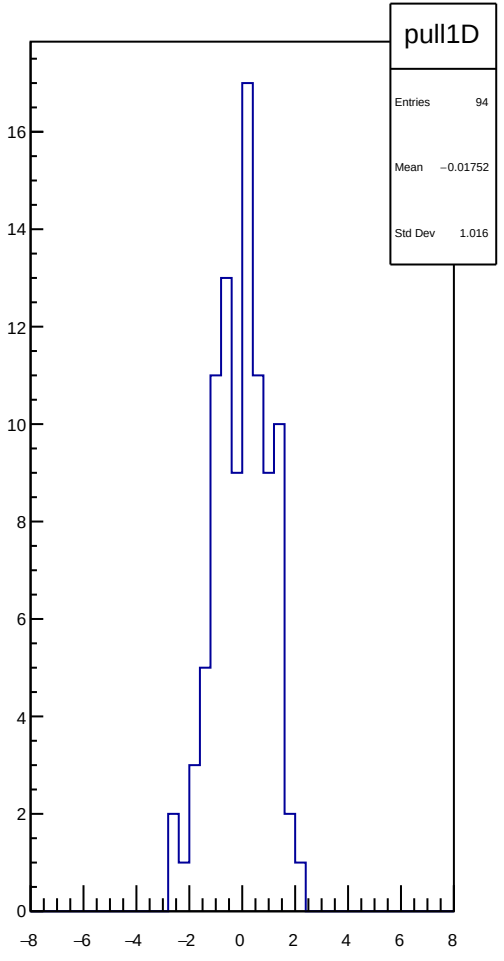

diff_bpm4aediffY_rms vs run
χ^2 / ndf 1.262e+04 / 93
p0 2874 ± 2.139
4000
3800
3600
3400
3200
3000
2800
2600
2400

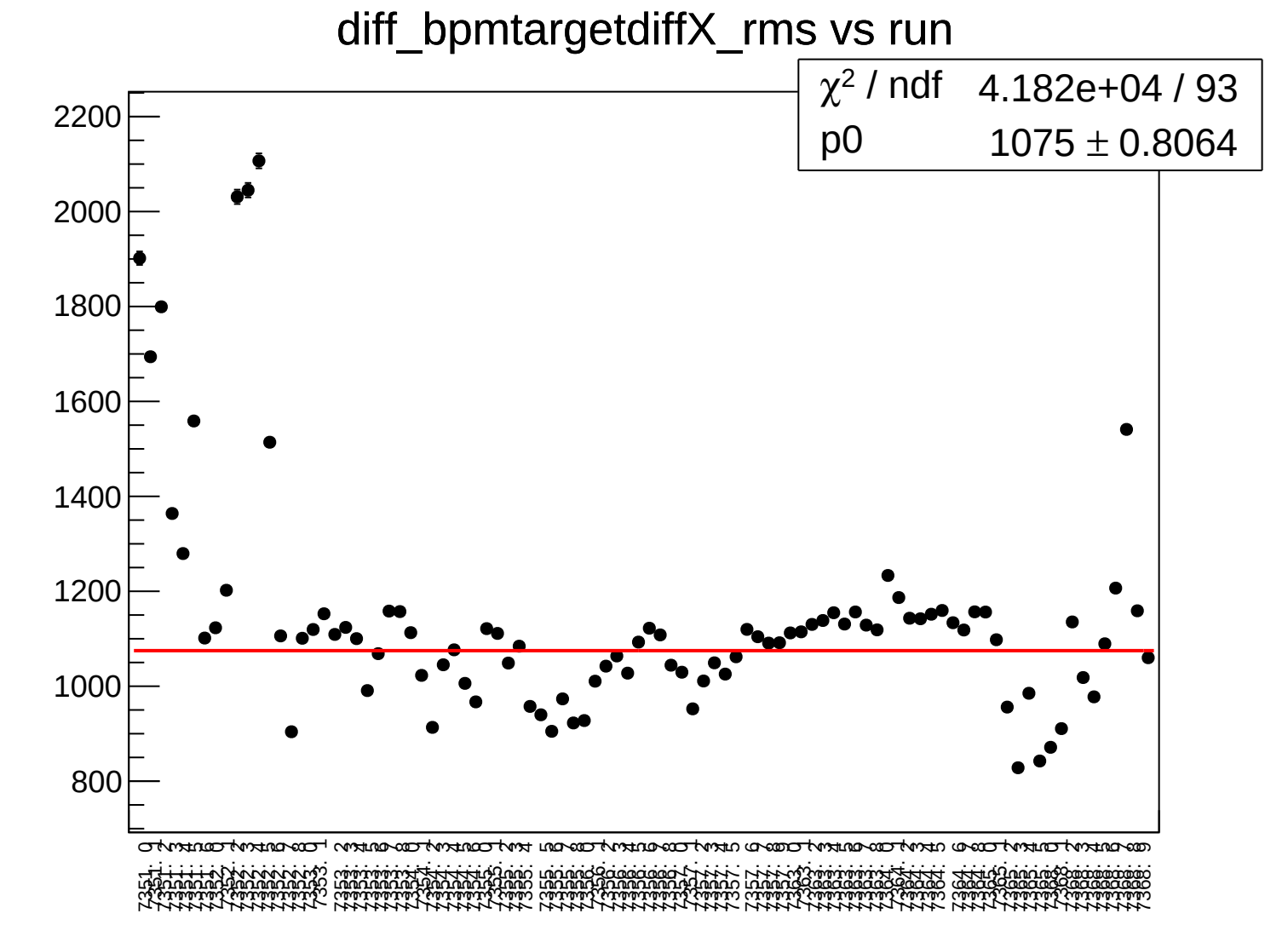

diff_bpmtargetsumX_mean vs run
χ² / ndf 288.9 / 93
p0 15.72 ± 11.75
800
600
400
200
0
−200
−400
−600
pull
Entries 94
Mean −597
Std Dev 0
4
2
0
−2
−4

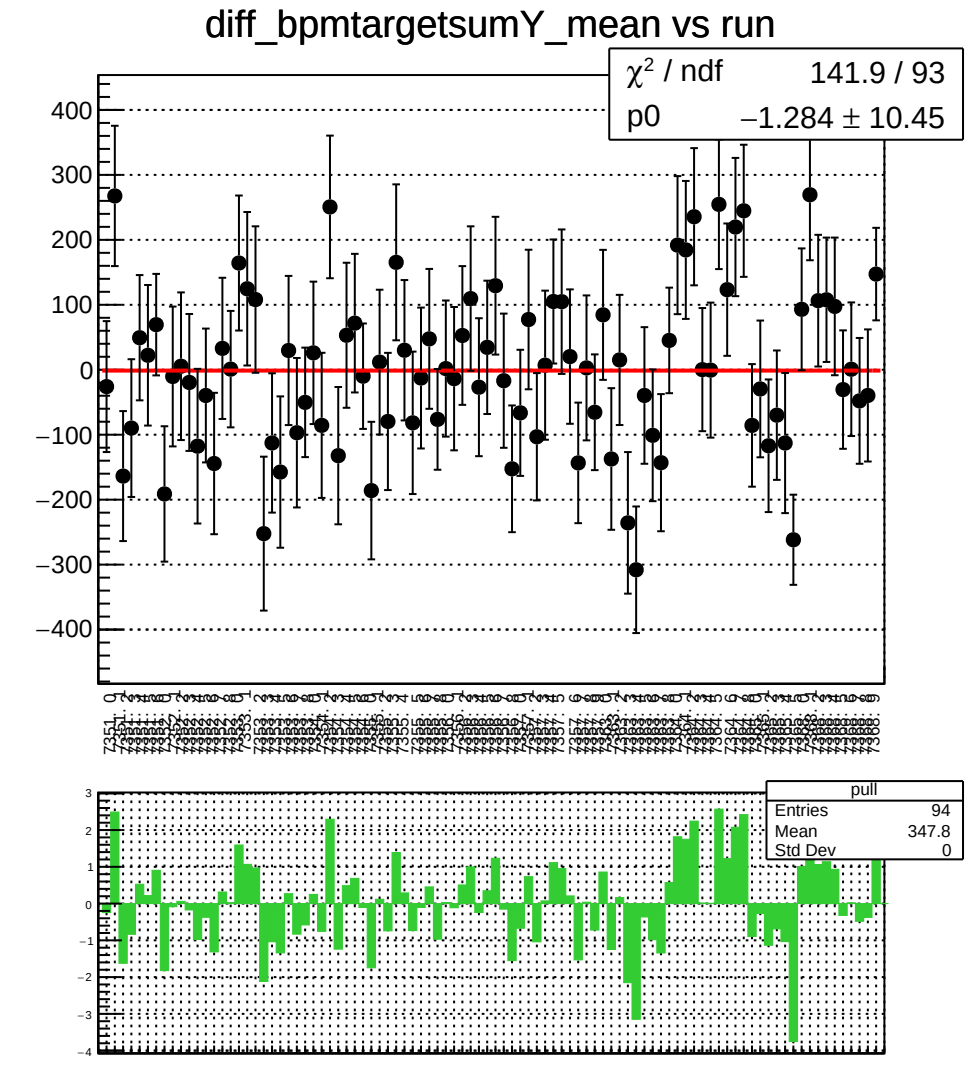

pull1D
Entries 94
Mean 0.004481
Std Dev 1.753
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

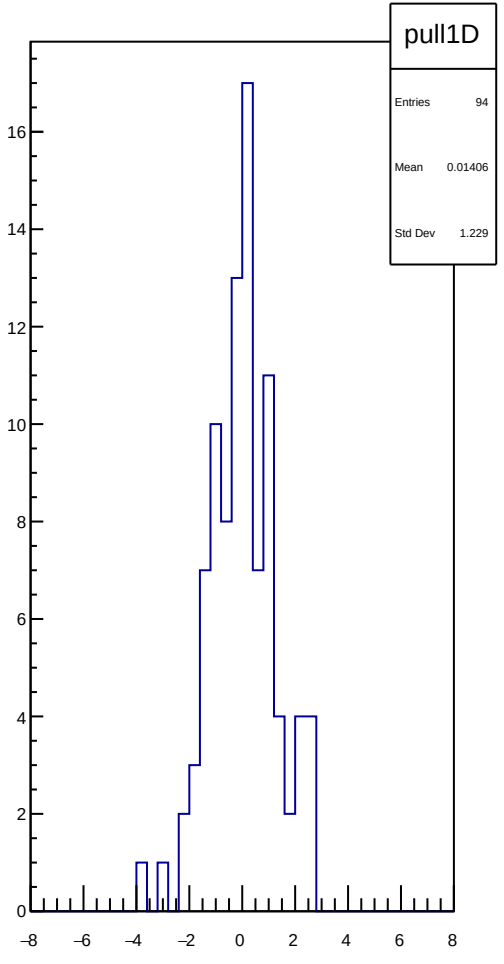

diff_bpmtargetsumX_rms vs run
χ² / ndf 4077 / 93
p0 1.119e+04 ± 8.306
12500
12000
11500
11000
10500
10000

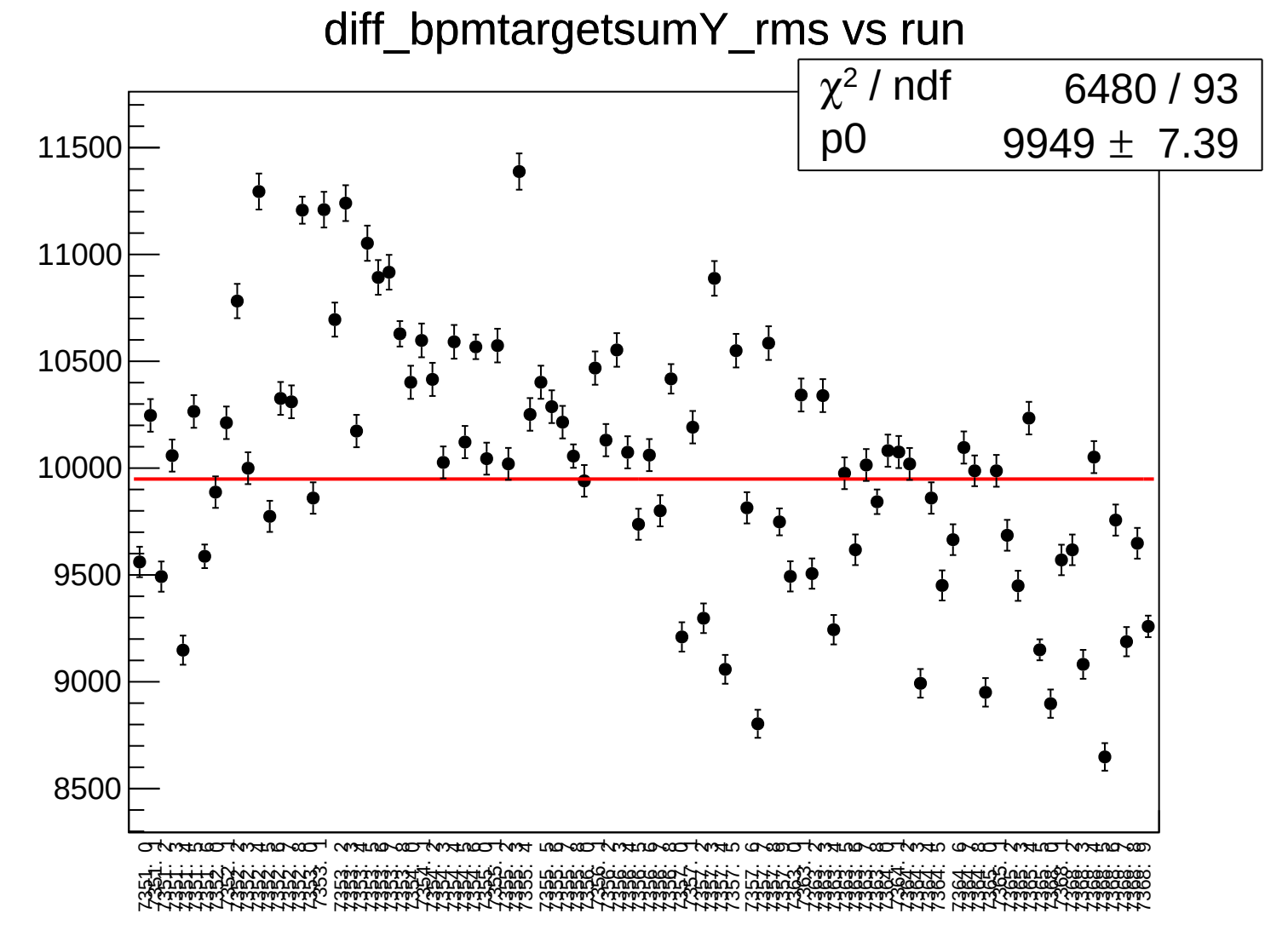

diff_bpmtargetdiffX_mean vs run
χ² / ndf 97.08 / 93
p0 1.668 ± 1.14
pull
Entries 94
Mean −97.24
Std Dev 0

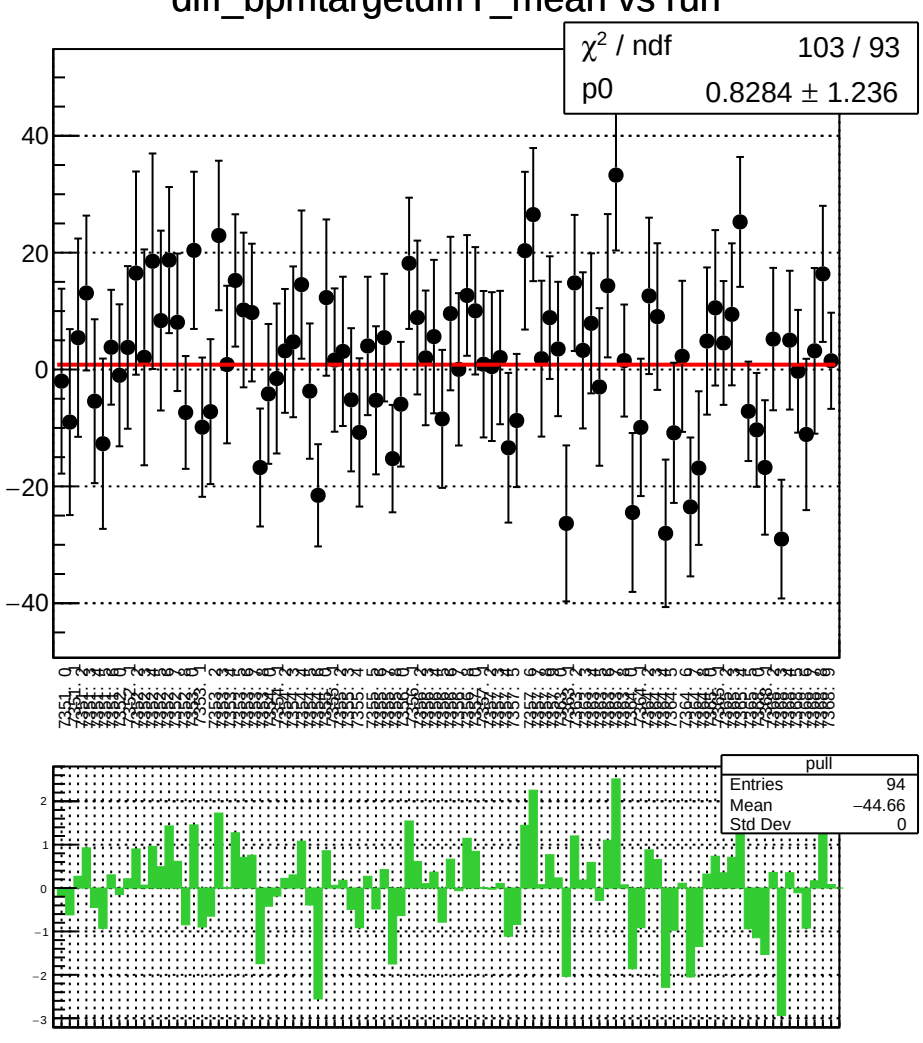

pull1D
Entries 94
Mean −0.01752
Std Dev 1.016

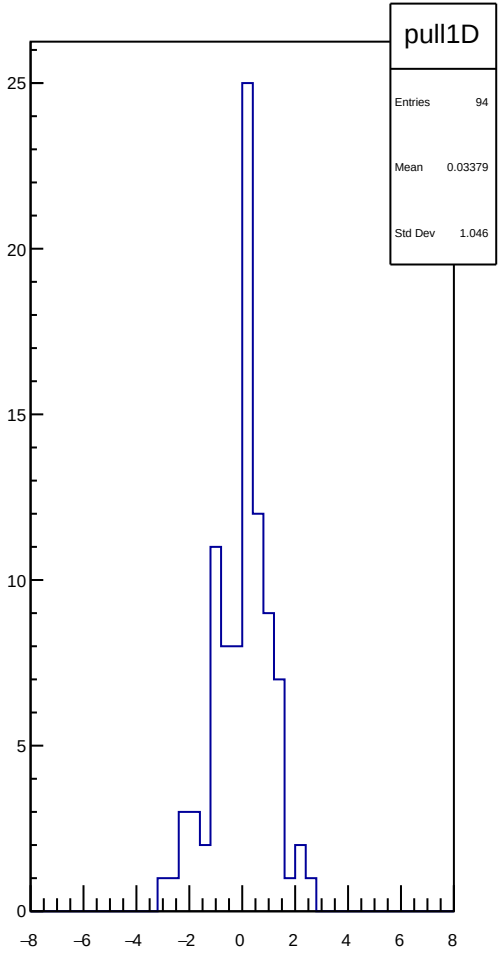

diff_bpmtargetdiffX_rms vs run
χ² / ndf 4.182e+04 / 93
p0 1075 ± 0.8064
2200
2000
1800
1600
1400
1200
1000
800

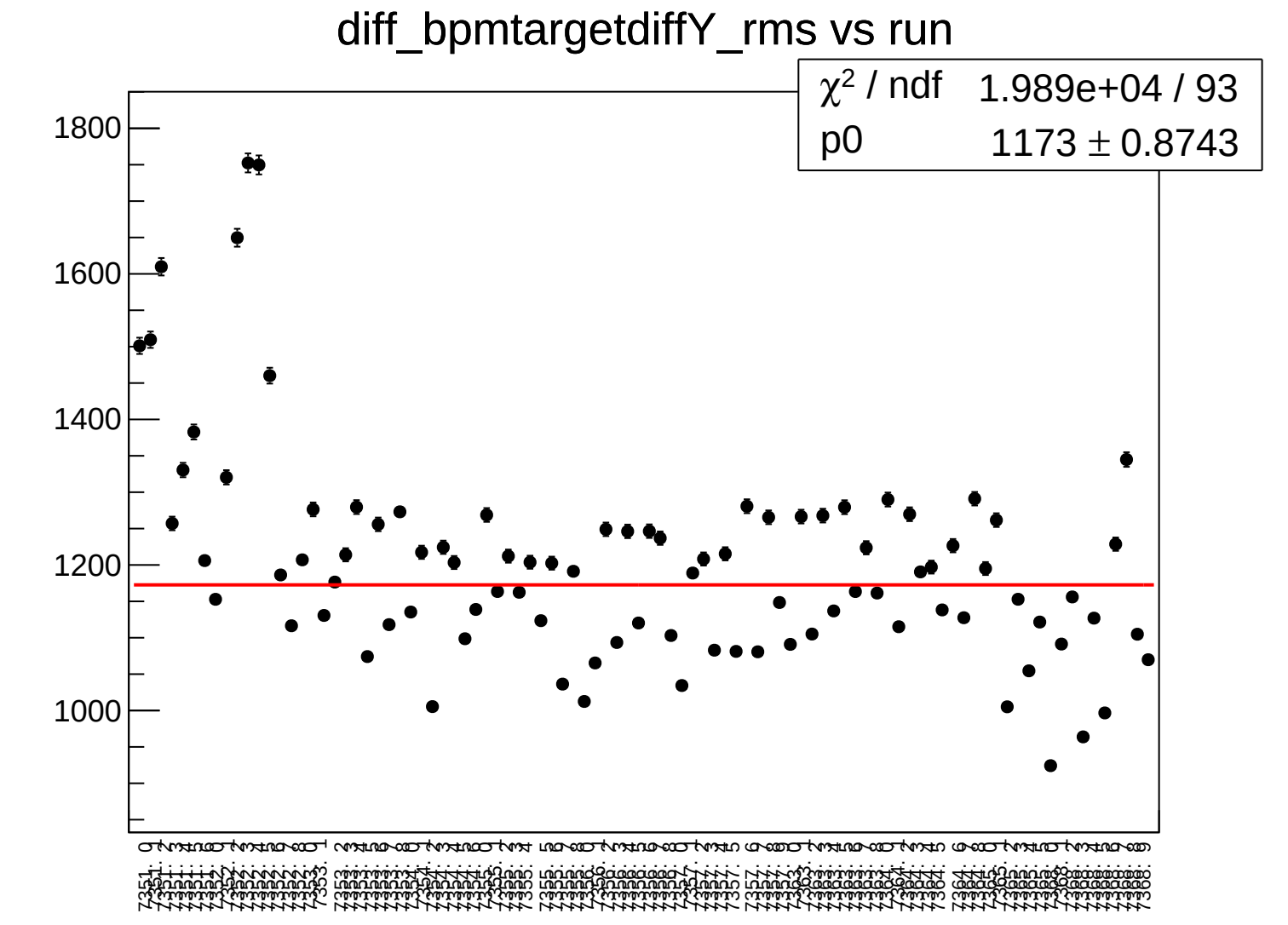

diff_bpmtargetsumY_mean vs run
χ² / ndf 141.9 / 93
p0 −1.284 ± 10.45
pull
Entries 94
Mean 347.8
Std Dev 0

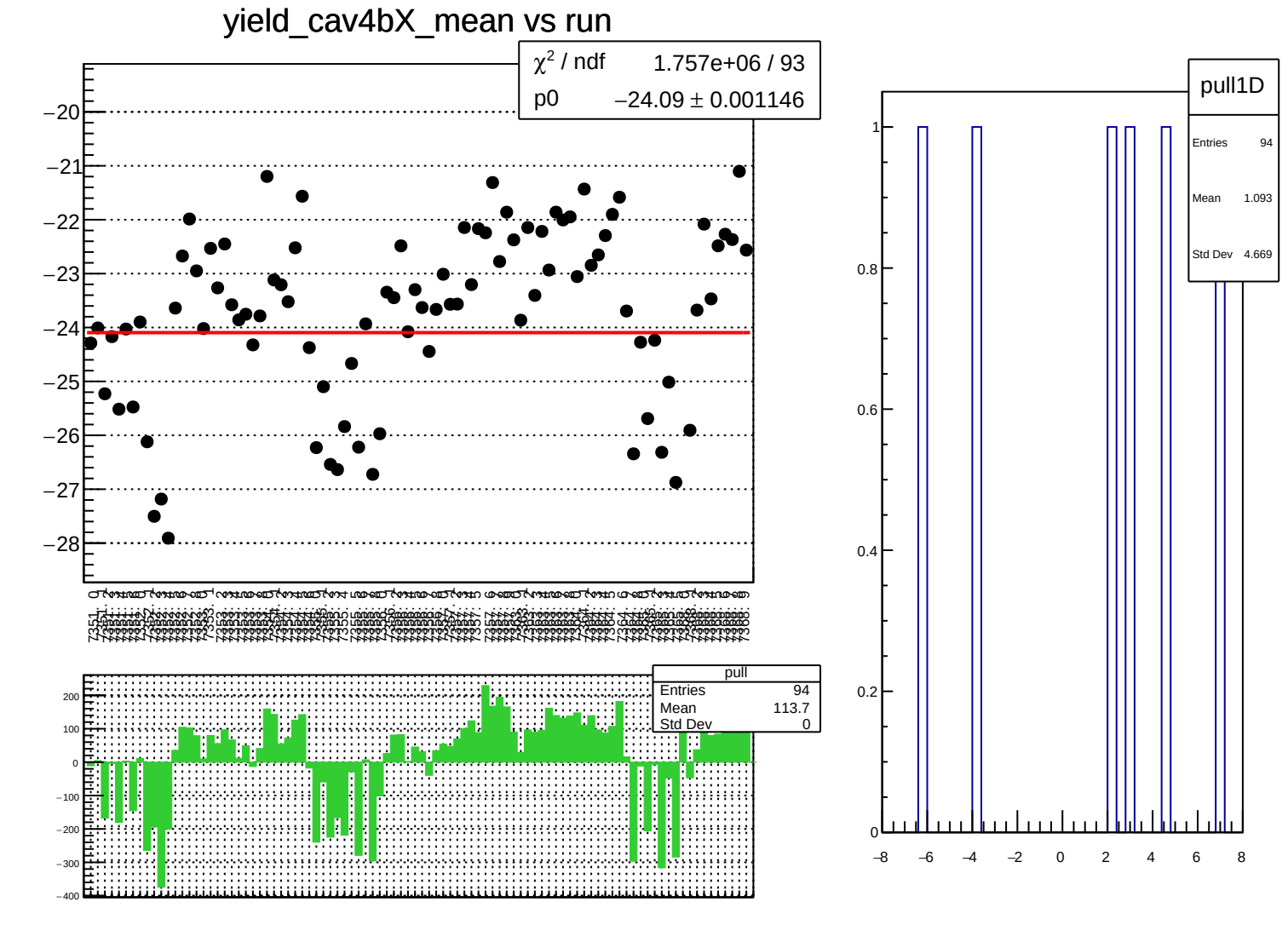

pull1D
Entries 94
Mean 0.01406
Std Dev 1.229

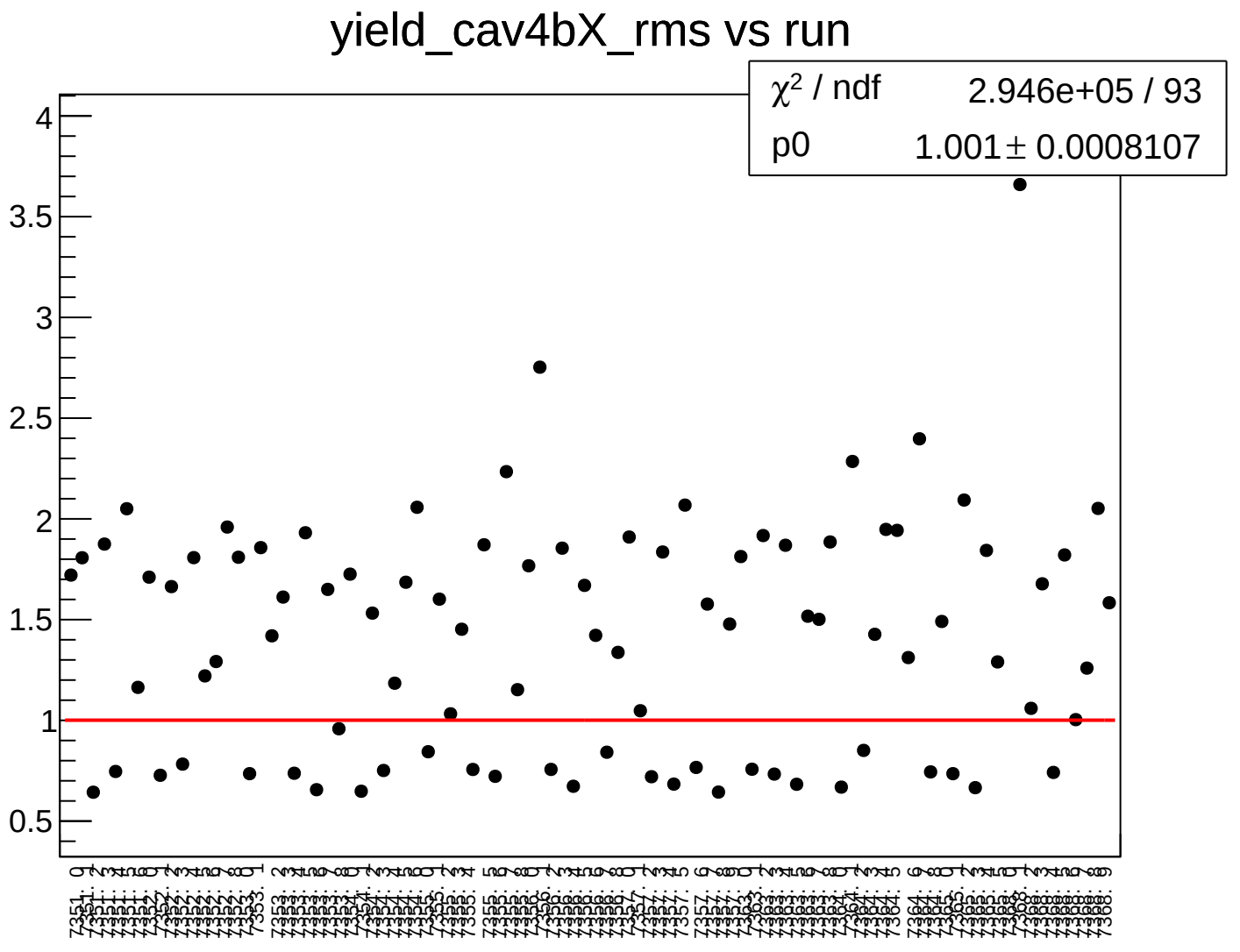

diff_bpmtargetsumY_rms vs run
χ² / ndf 6480 / 93
p0 9949 ± 7.39
11500
11000
10500
10000
9500
9000
8500

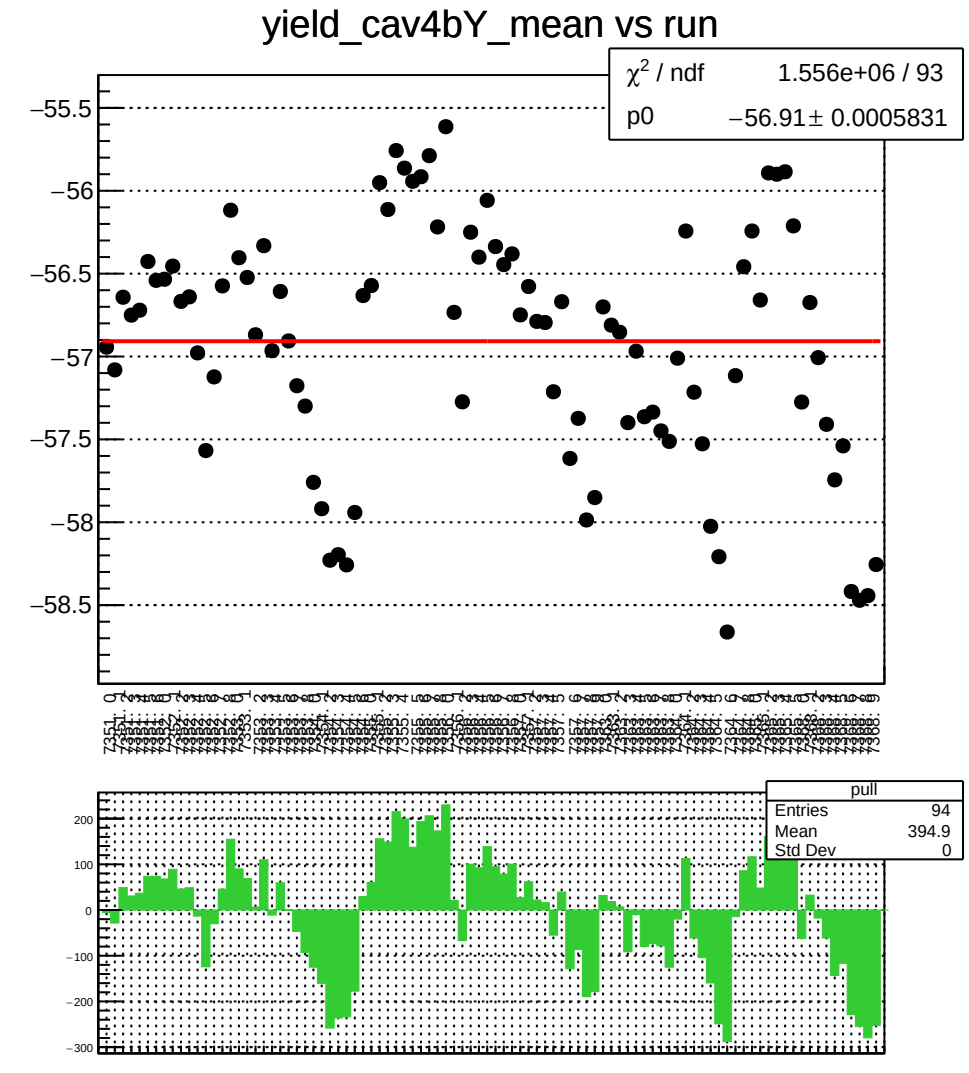

diff_bpmtargetdiffY_mean vs run
χ² / ndf 103 / 93
p0 0.8284 ± 1.236
pull
Entries 94
Mean −44.66
Std Dev 0

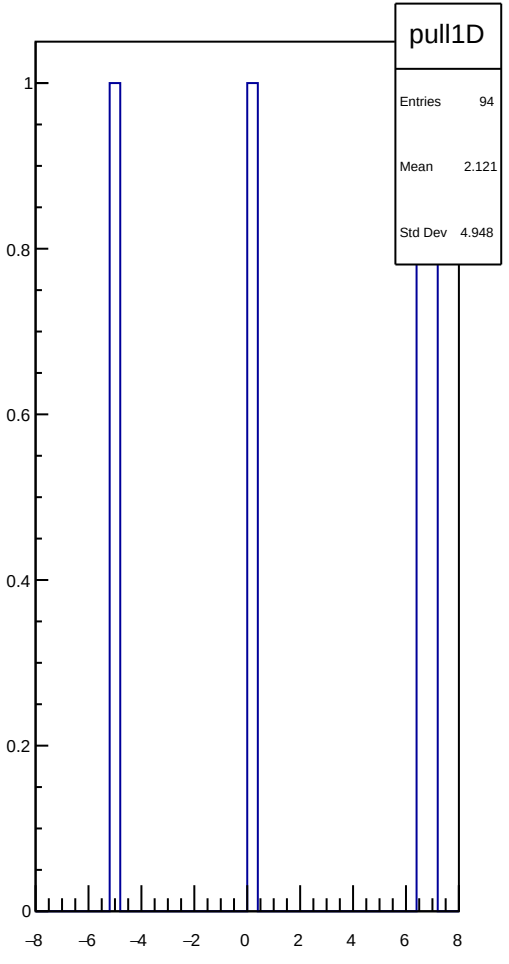

pull1D
Entries 94
Mean 0.03379
Std Dev 1.046

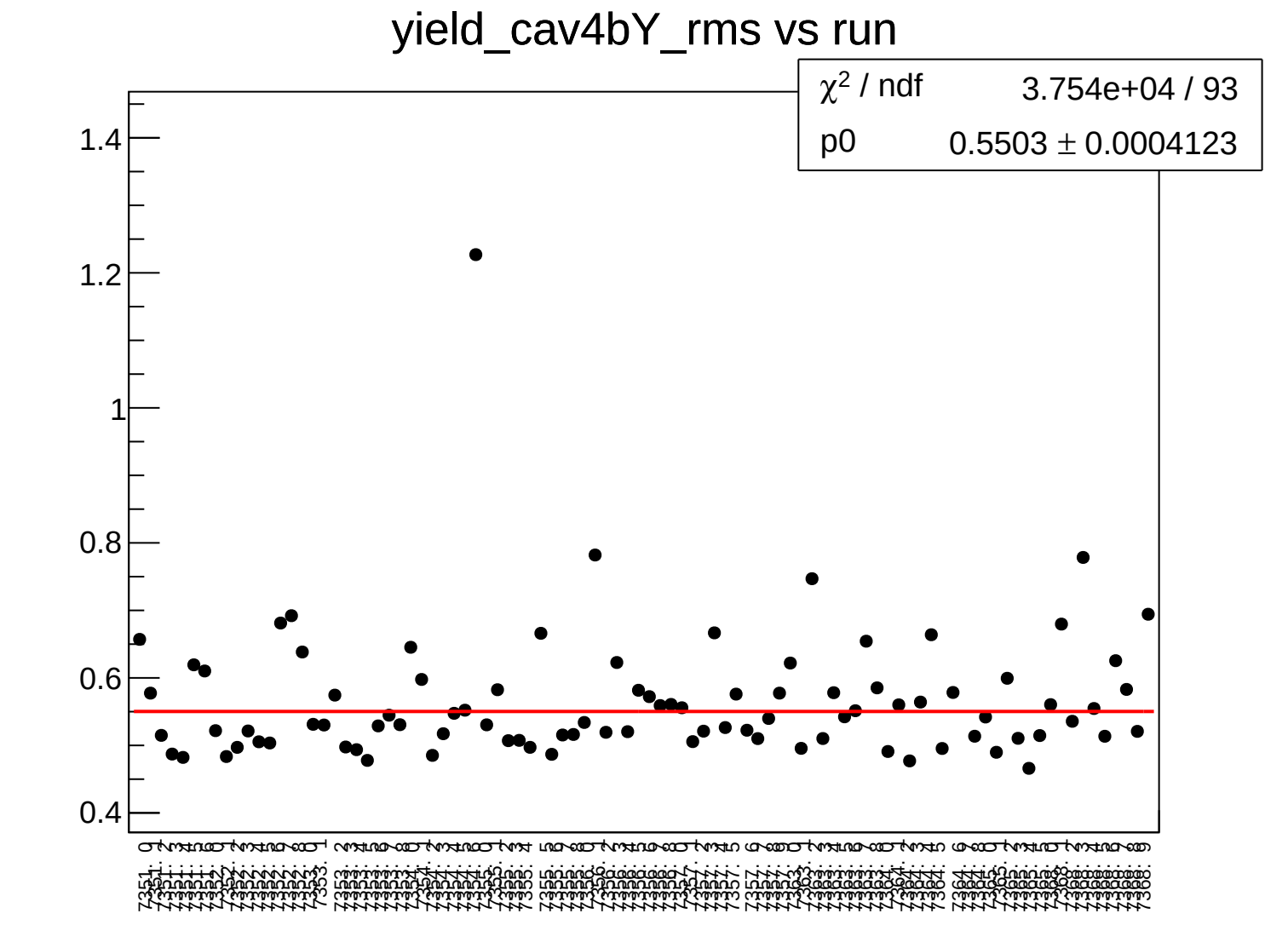

diff_bpmtargetdiffY_rms vs run
χ² / ndf 1.989e+04 / 93
p0 1173 ± 0.8743
1800
1600
1400
1200
1000

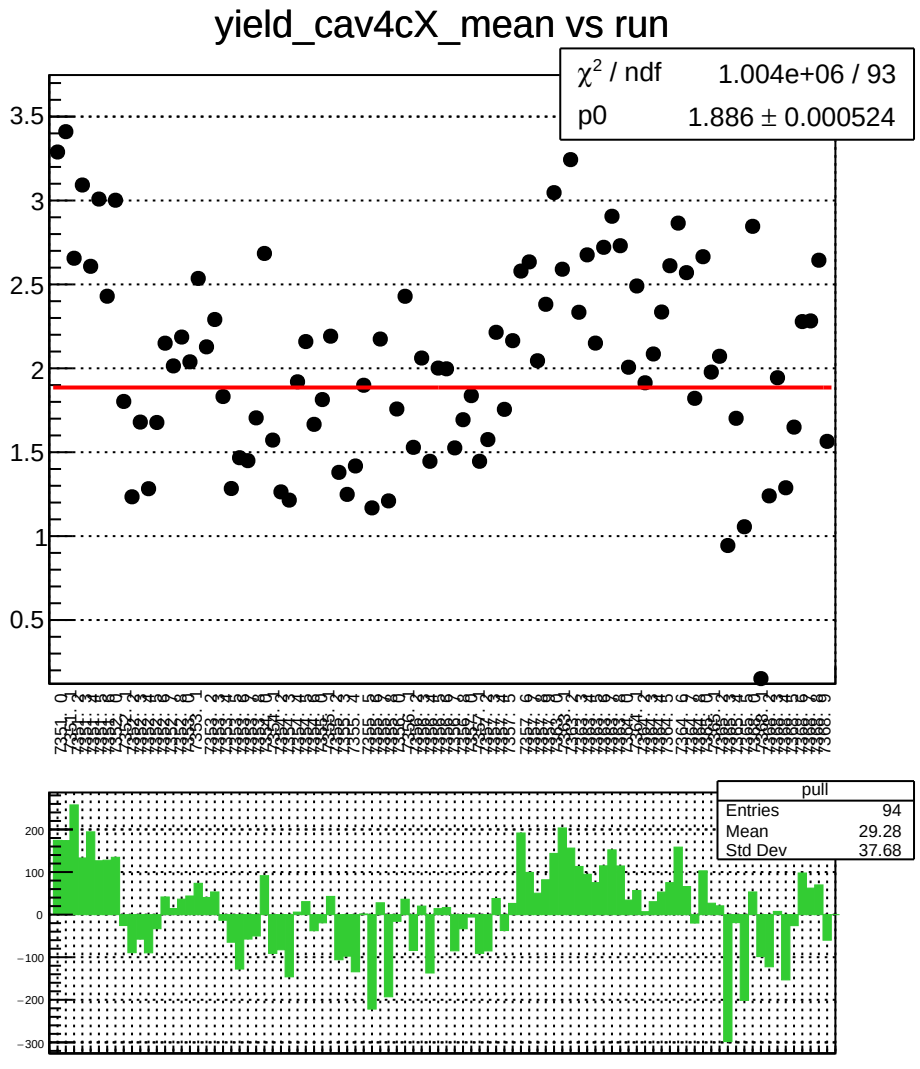

yield_cav4bX_mean vs run
χ² / ndf 1.757e+06 / 93
p0 −24.09 ± 0.001146
−20
−21
−22
−23
−24
−25
−26
−27
−28
pull
Entries 94
Mean 113.7
Std Dev 0
200
100
0
−100
−200
−300
−400
pull1D
Entries 94
Mean 1.093
Std Dev 4.669
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

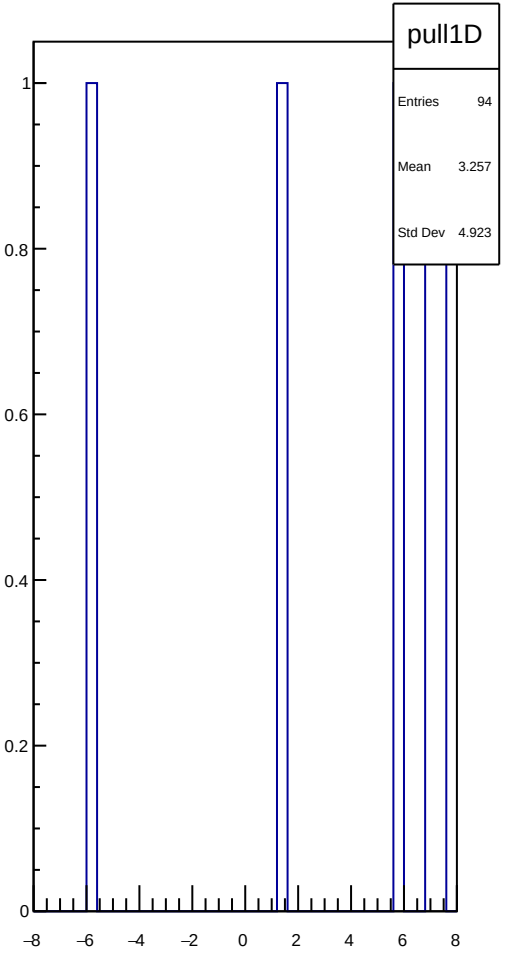

yield_cav4bX_rms vs run
χ² / ndf 2.946e+05 / 93
p0 1.001 ± 0.0008107
4
3.5
3
2.5
2
1.5
1
0.5

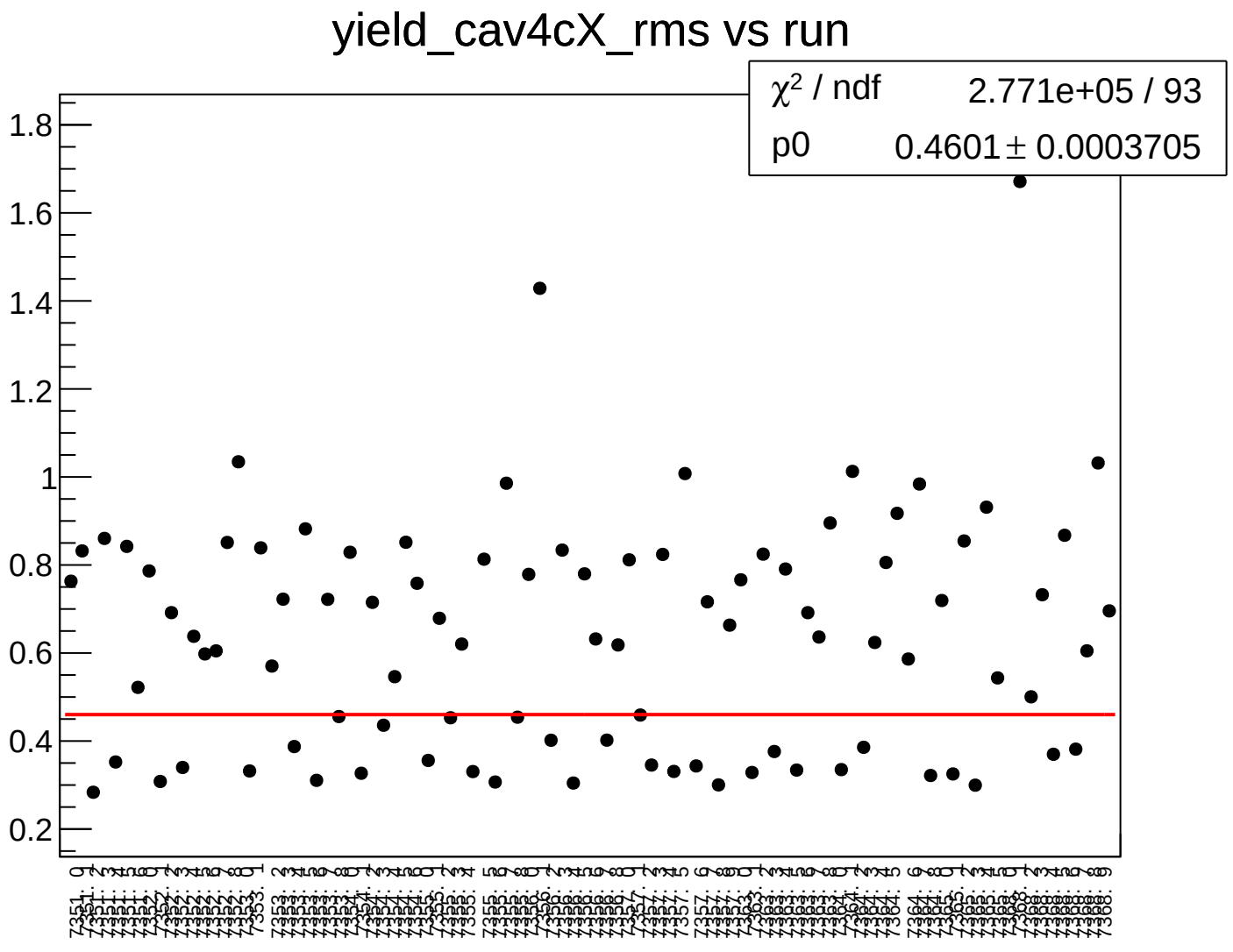

yield_cav4bY_mean vs run
χ² / ndf 1.556e+06 / 93
p0 −56.91± 0.0005831
−55.5
−56
−56.5
−57
−57.5
−58
−58.5
pull
Entries 94
Mean 394.9
Std Dev 0
200
100
0
−100
−200
−300

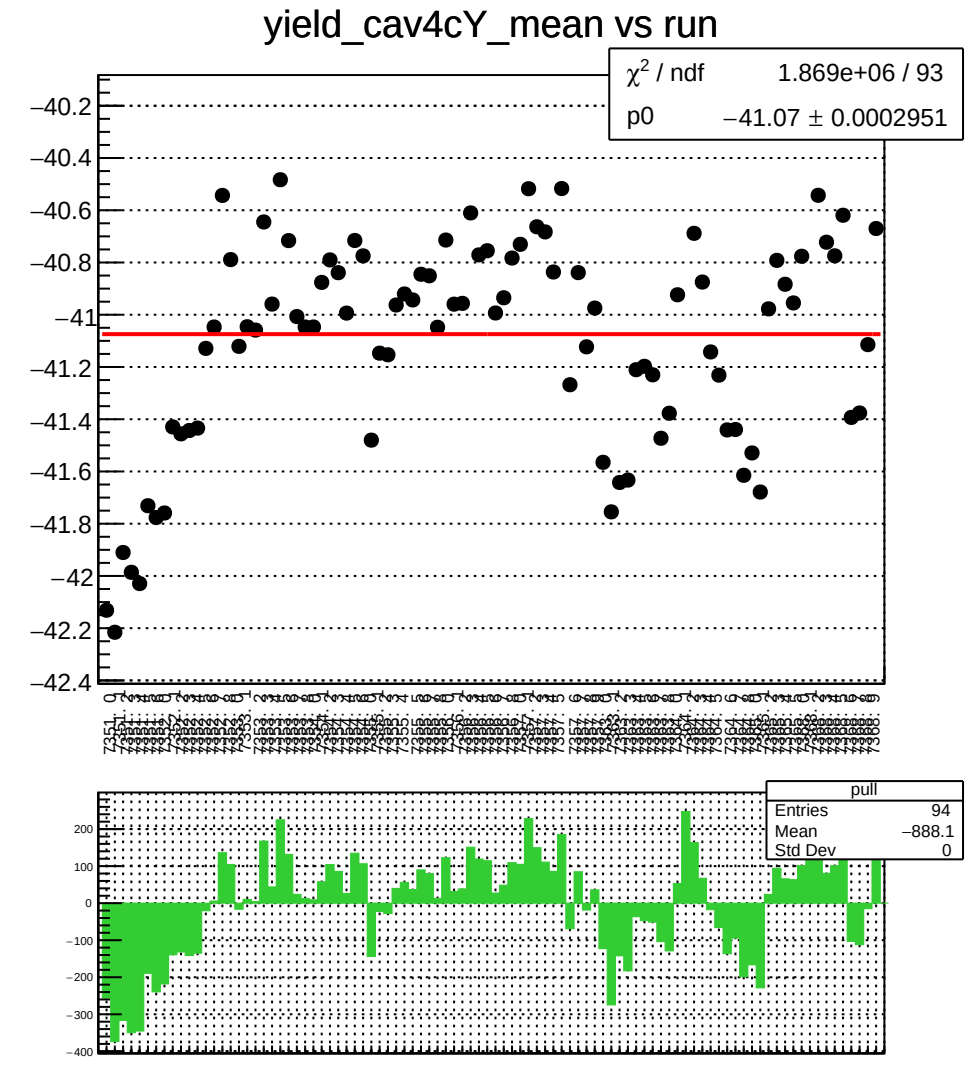

pull1D
Entries 94
Mean 2.121
Std Dev 4.948
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

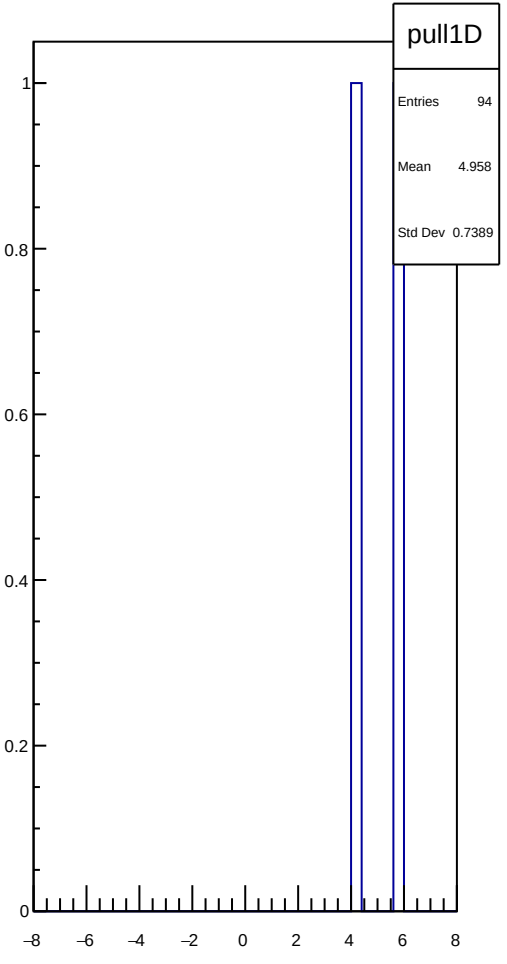

yield_cav4bY_rms vs run
χ² / ndf 3.754e+04 / 93
p0 0.5503 ± 0.0004123
1.4
1.2
1
0.8
0.6
0.4

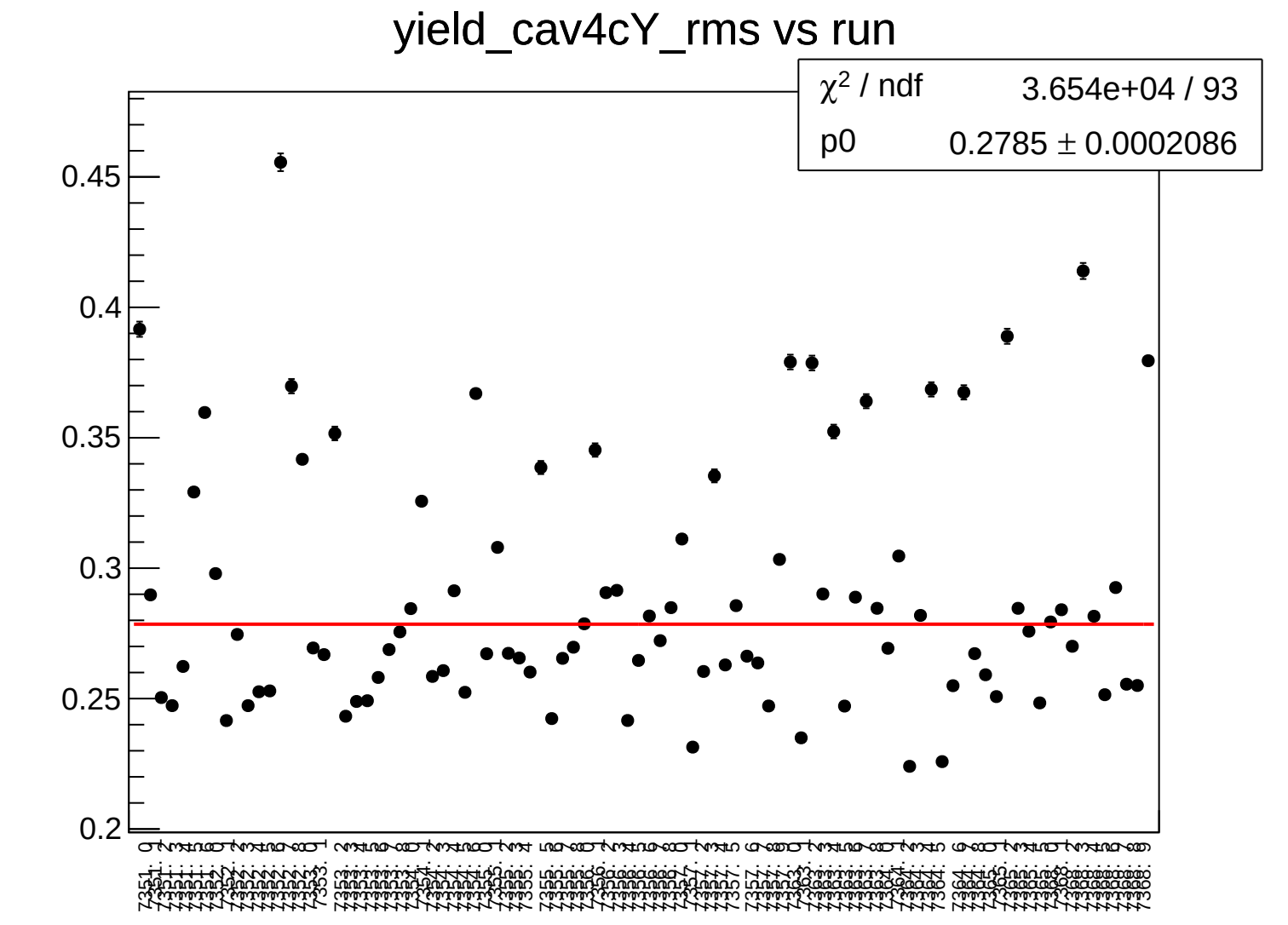

yield_cav4cX_mean vs run
χ² / ndf 1.004e+06 / 93
p0 1.886 ± 0.000524
pull
Entries 94
Mean 29.28
Std Dev 37.68

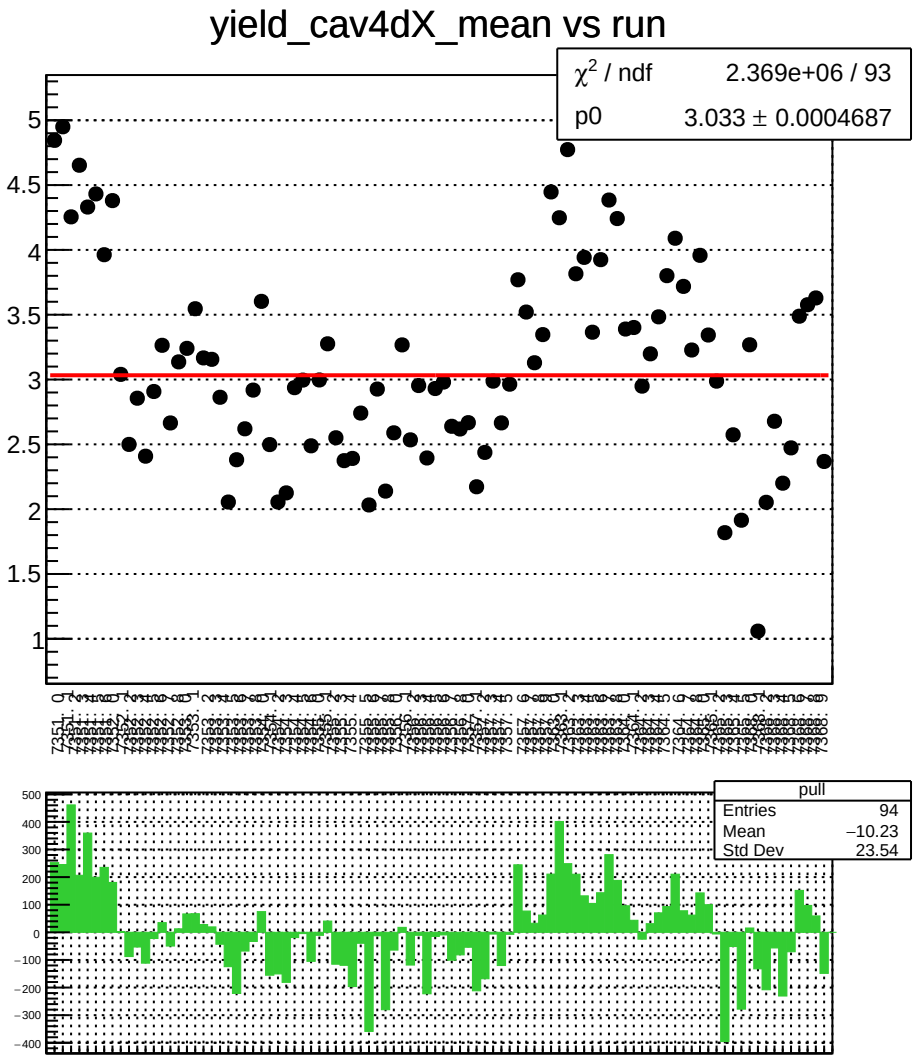

pull1D
Entries 94
Mean 3.257
Std Dev 4.923

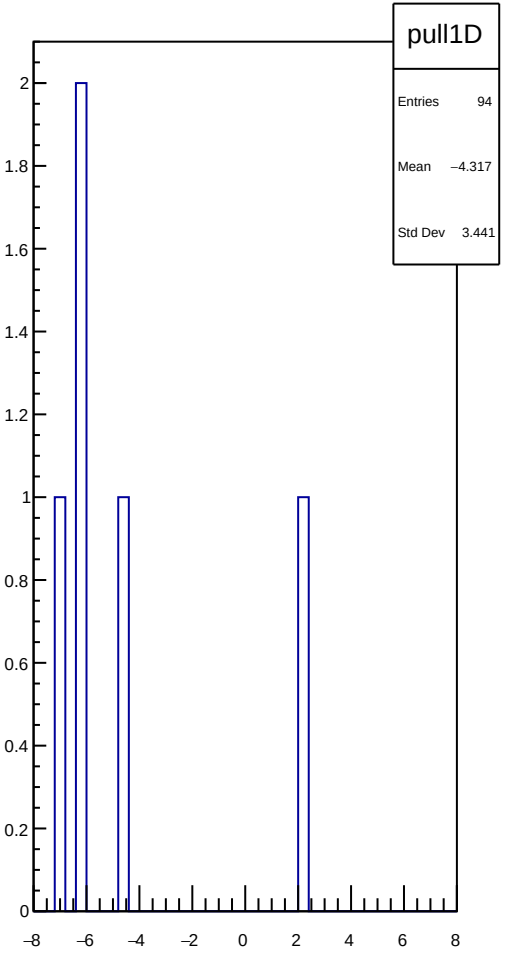

yield_cav4cX_rms vs run
χ² / ndf 2.771e+05 / 93
p0 0.4601 ± 0.0003705
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

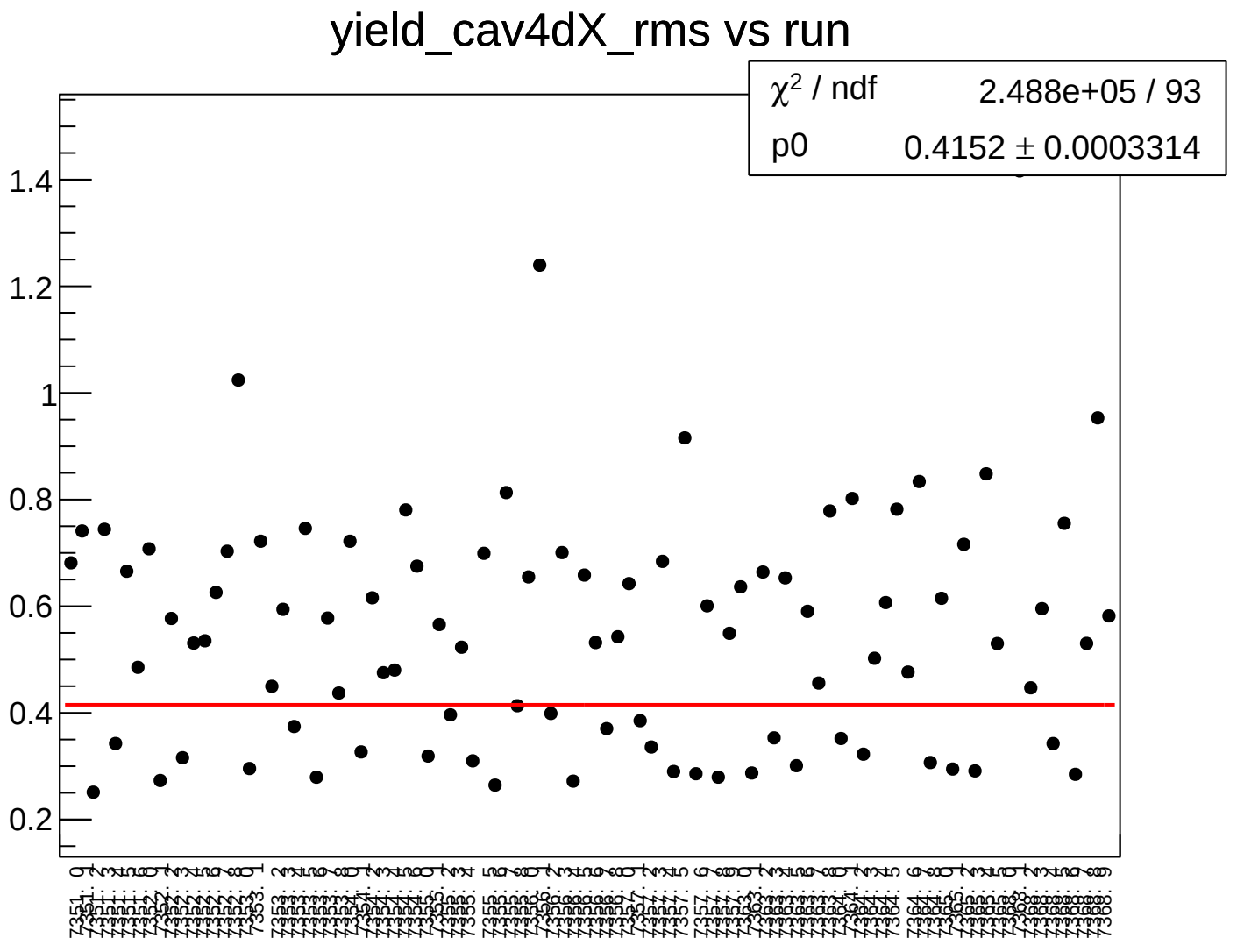

yield_cav4cY_mean vs run
χ² / ndf 1.869e+06 / 93
p0 −41.07 ± 0.0002951
−40.2
−40.4
−40.6
−40.8
−41
−41.2
−41.4
−41.6
−41.8
−42
−42.2
−42.4
pull
Entries 94
Mean −888.1
Std Dev 0
200
100
0
−100
−200
−300
−400

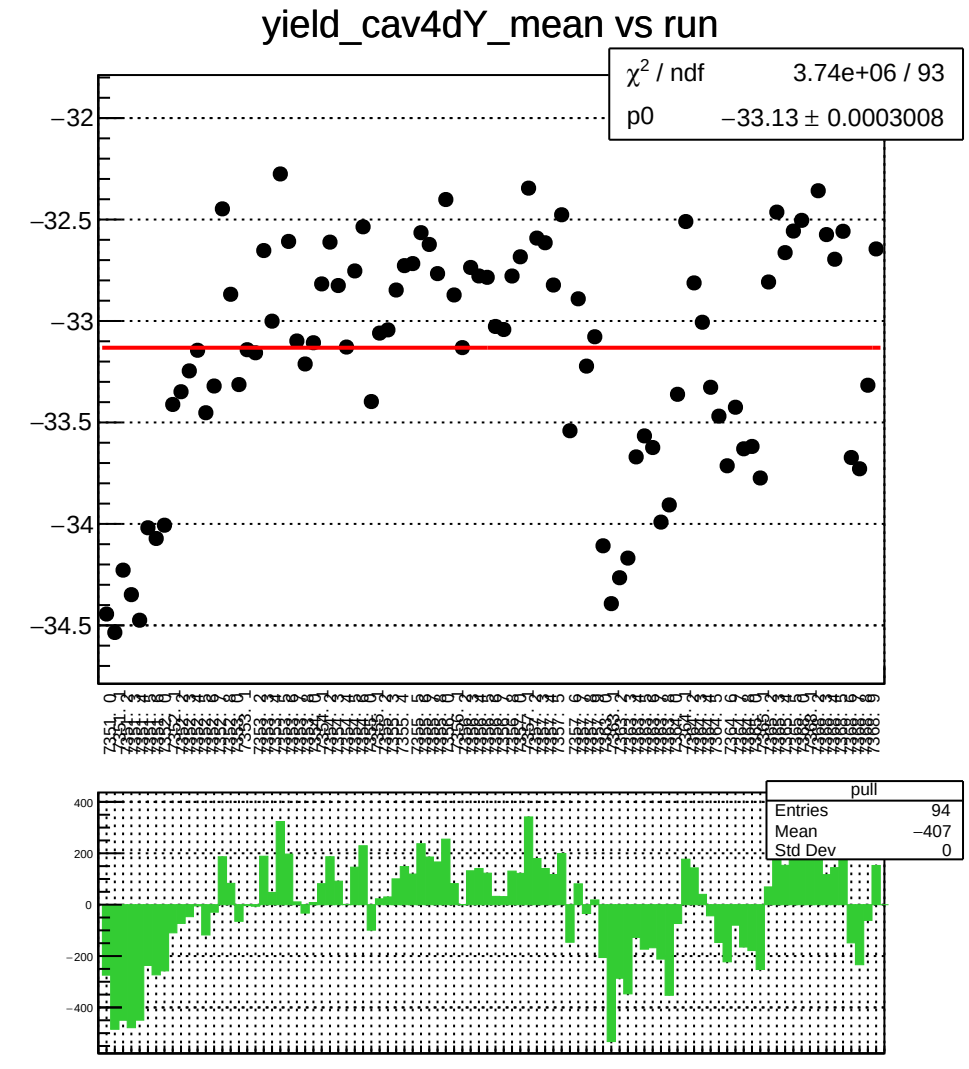

pull1D
Entries 94
Mean 4.958
Std Dev 0.7389
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

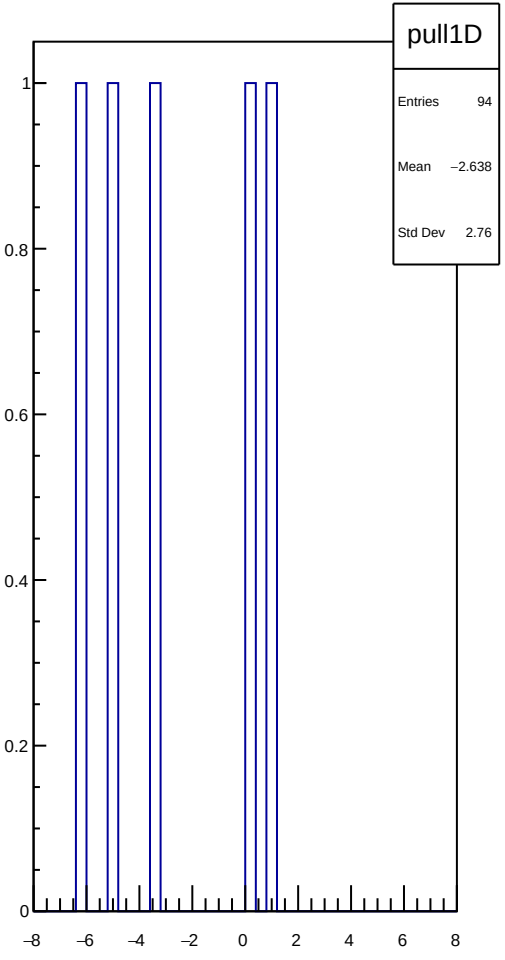

yield_cav4cY_rms vs run
χ² / ndf 3.654e+04 / 93
p0 0.2785 ± 0.0002086
0.45
0.4
0.35
0.3
0.25
0.2

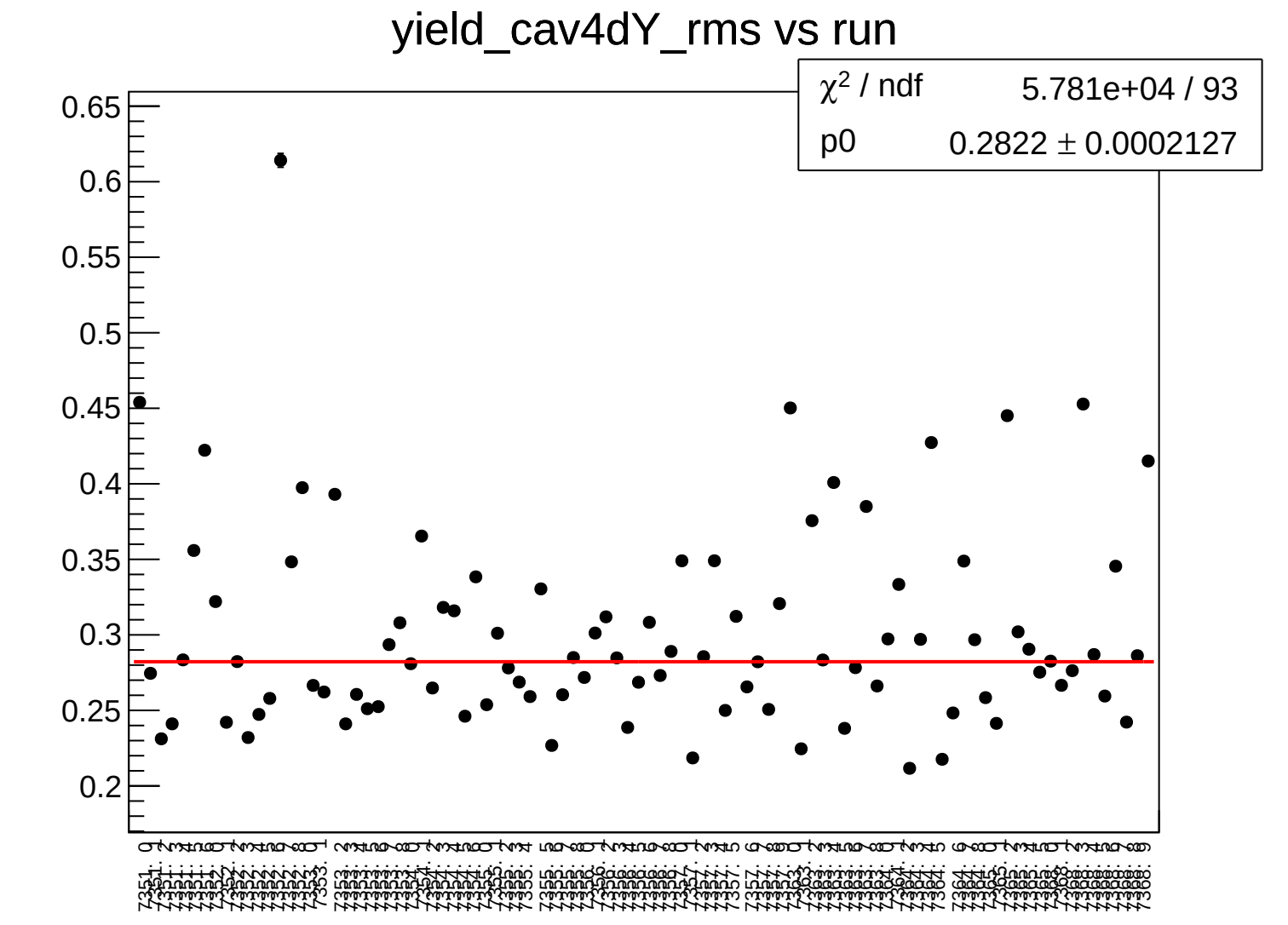

yield_cav4dX_mean vs run
χ² / ndf 2.369e+06 / 93
p0 3.033 ± 0.0004687
pull
Entries 94
Mean −10.23
Std Dev 23.54

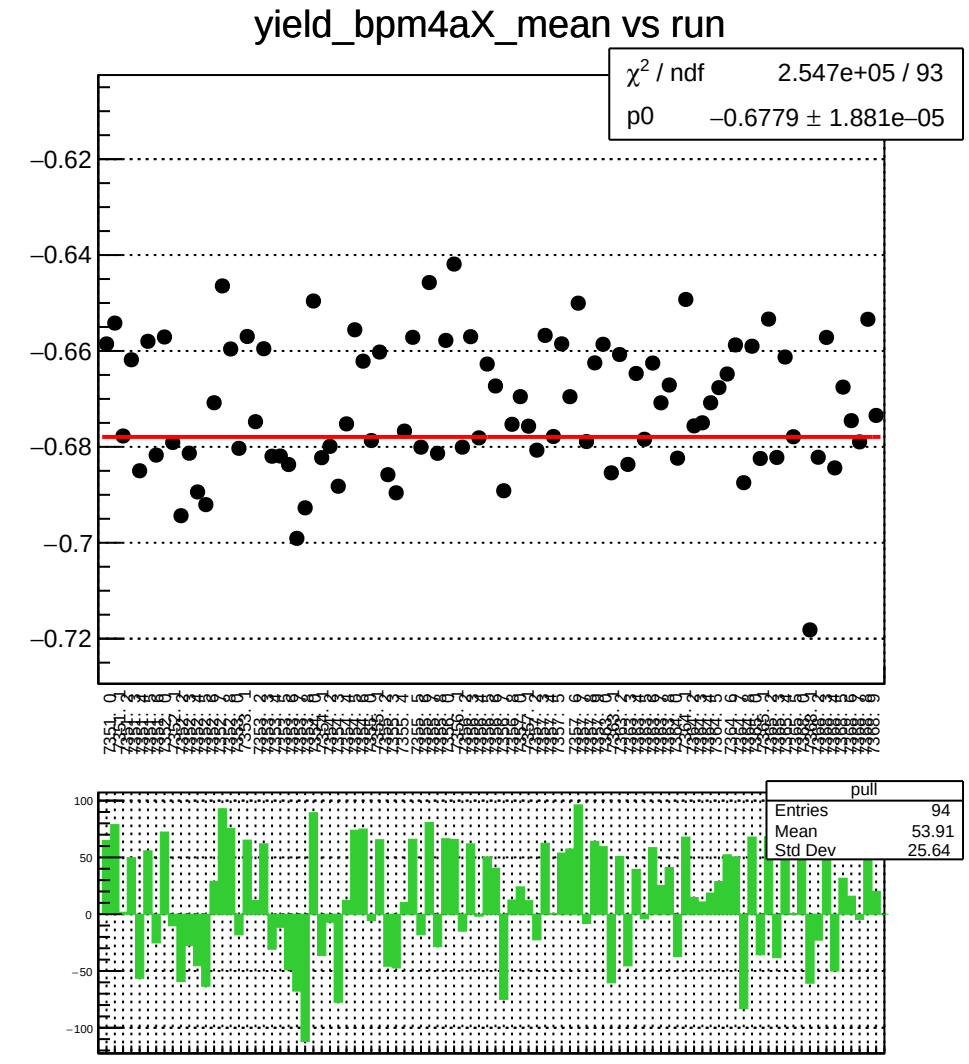

pull1D
Entries 94
Mean −4.317
Std Dev 3.441

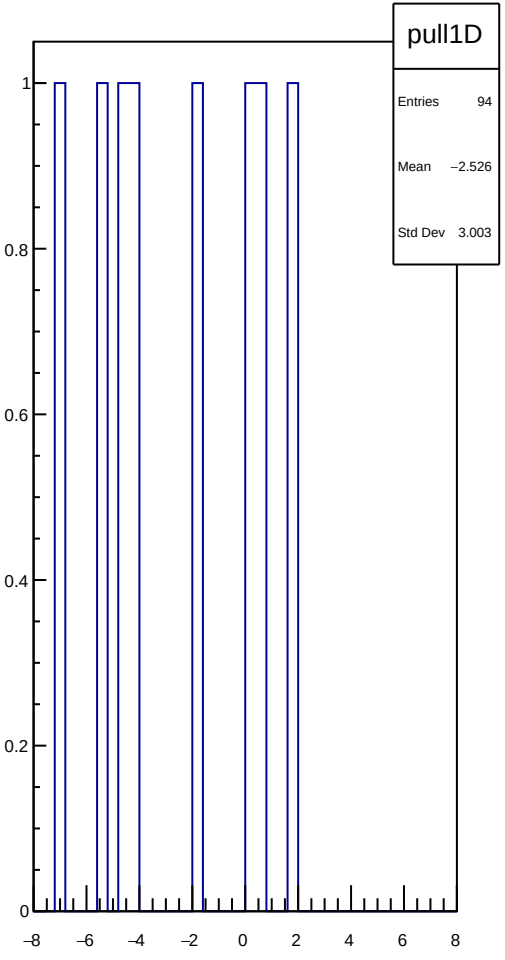

yield_cav4dX_rms vs run
χ² / ndf 2.488e+05 / 93
p0 0.4152 ± 0.0003314
1.4
1.2
1
0.8
0.6
0.4
0.2

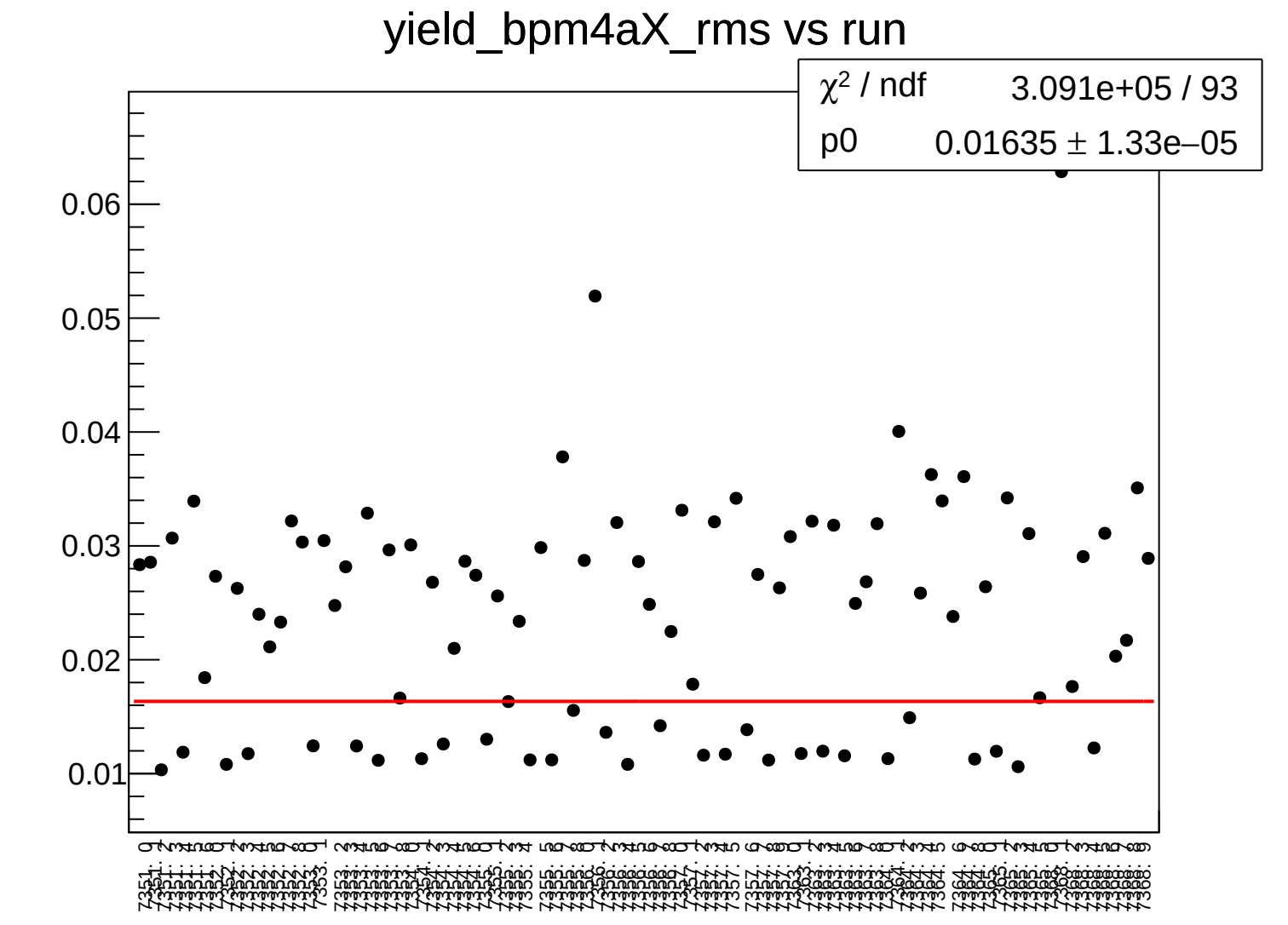

yield_cav4dY_mean vs run
χ² / ndf 3.74e+06 / 93
p0 −33.13 ± 0.0003008
−32
−32.5
−33
−33.5
−34
−34.5
pull
Entries 94
Mean −407
Std Dev 0
400
200
0
−200
−400

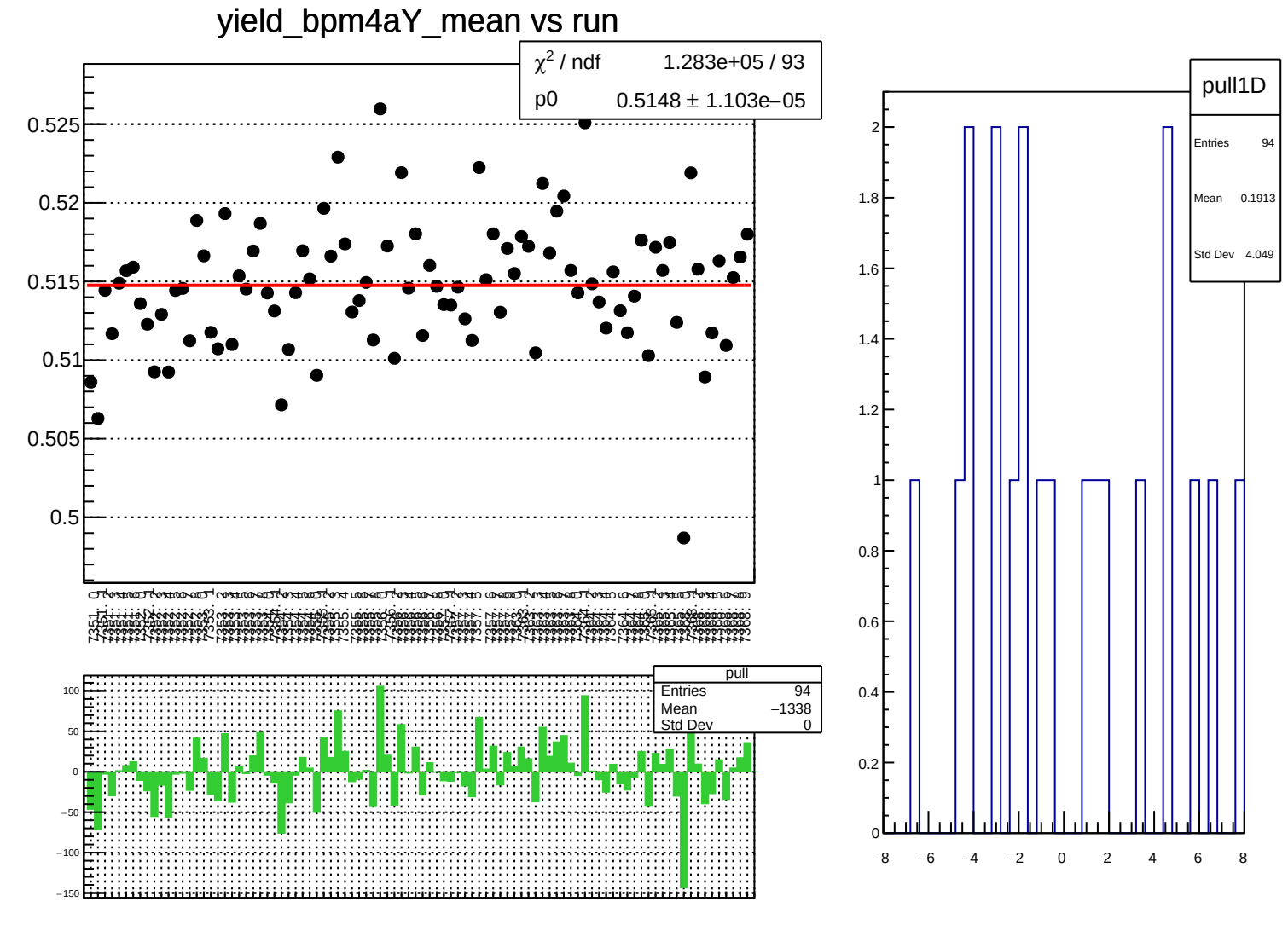

pull1D
Entries 94
Mean −2.638
Std Dev 2.76
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_cav4dY_rms vs run
χ^2 / ndf 5.781e+04 / 93
p0 0.2822 ± 0.0002127
0.65
0.6
0.55
0.5
0.45
0.4
0.35
0.3
0.25
0.2

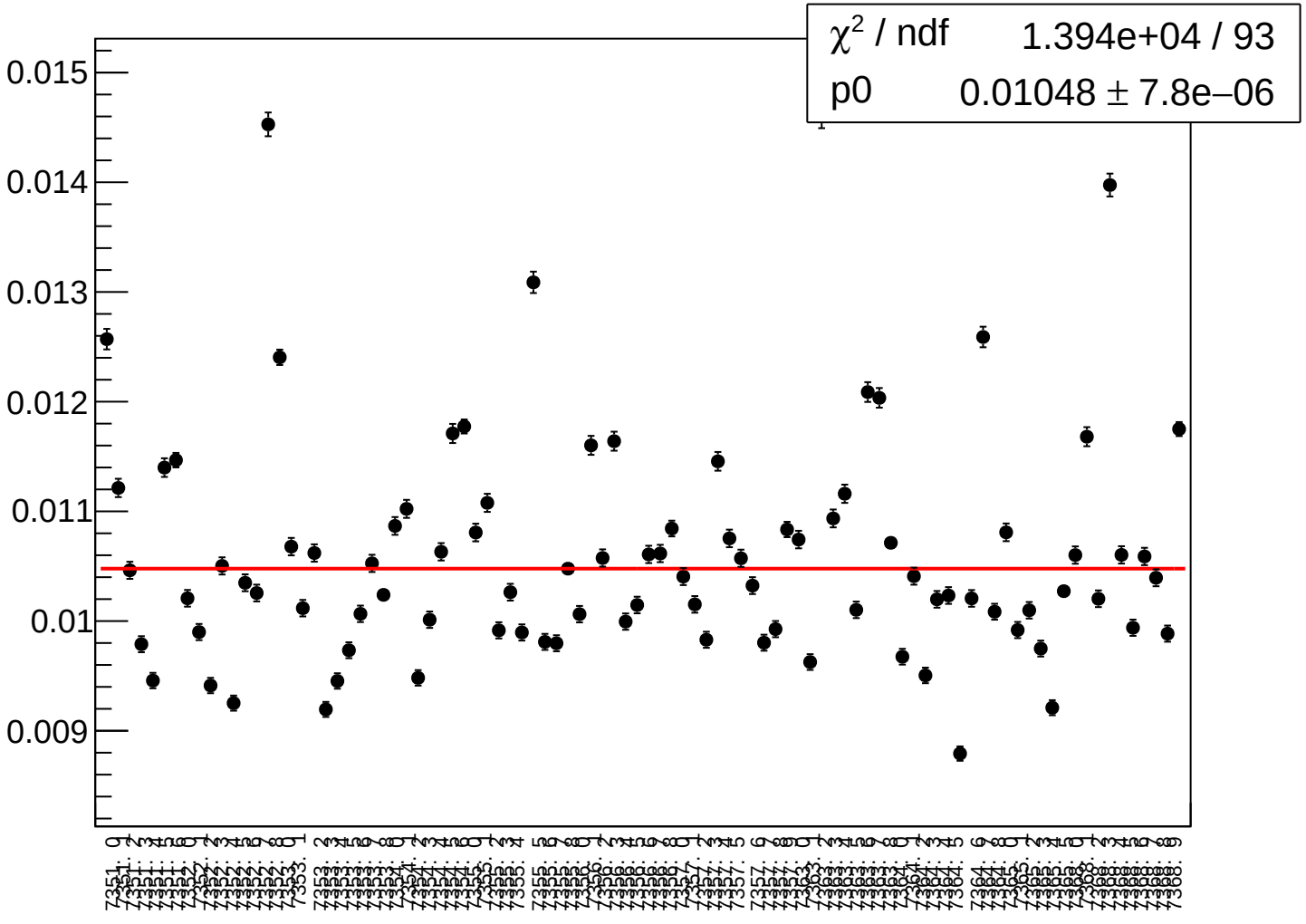

yield_bpm4aX_mean vs run
χ² / ndf 2.547e+05 / 93
p0 −0.6779 ± 1.881e−05
−0.62
−0.64
−0.66
−0.68
−0.7
−0.72
pull
Entries 94
Mean 53.91
Std Dev 25.64
100
50
0
−50
−100

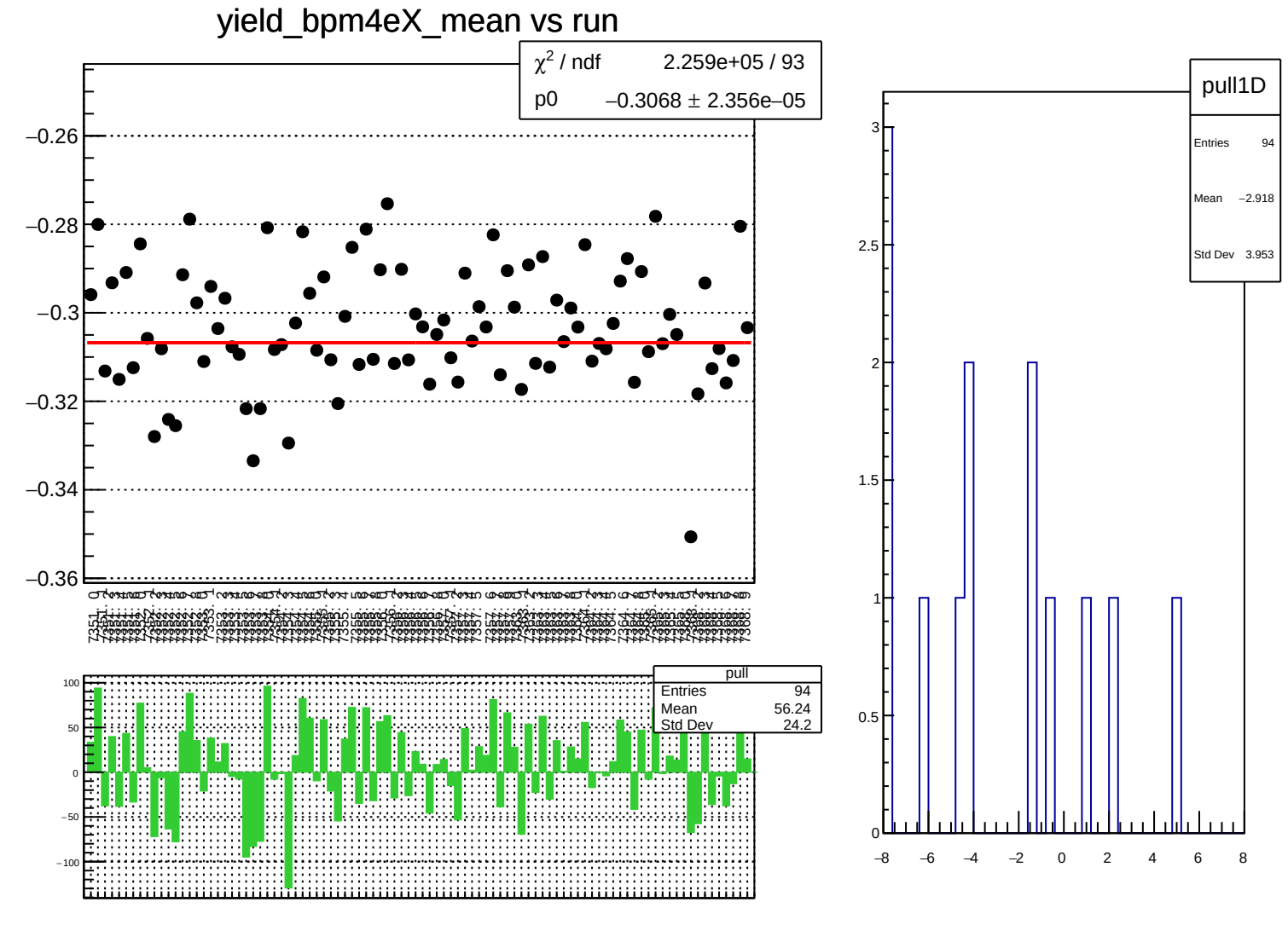

pull1D
Entries 94
Mean −2.526
Std Dev 3.003
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

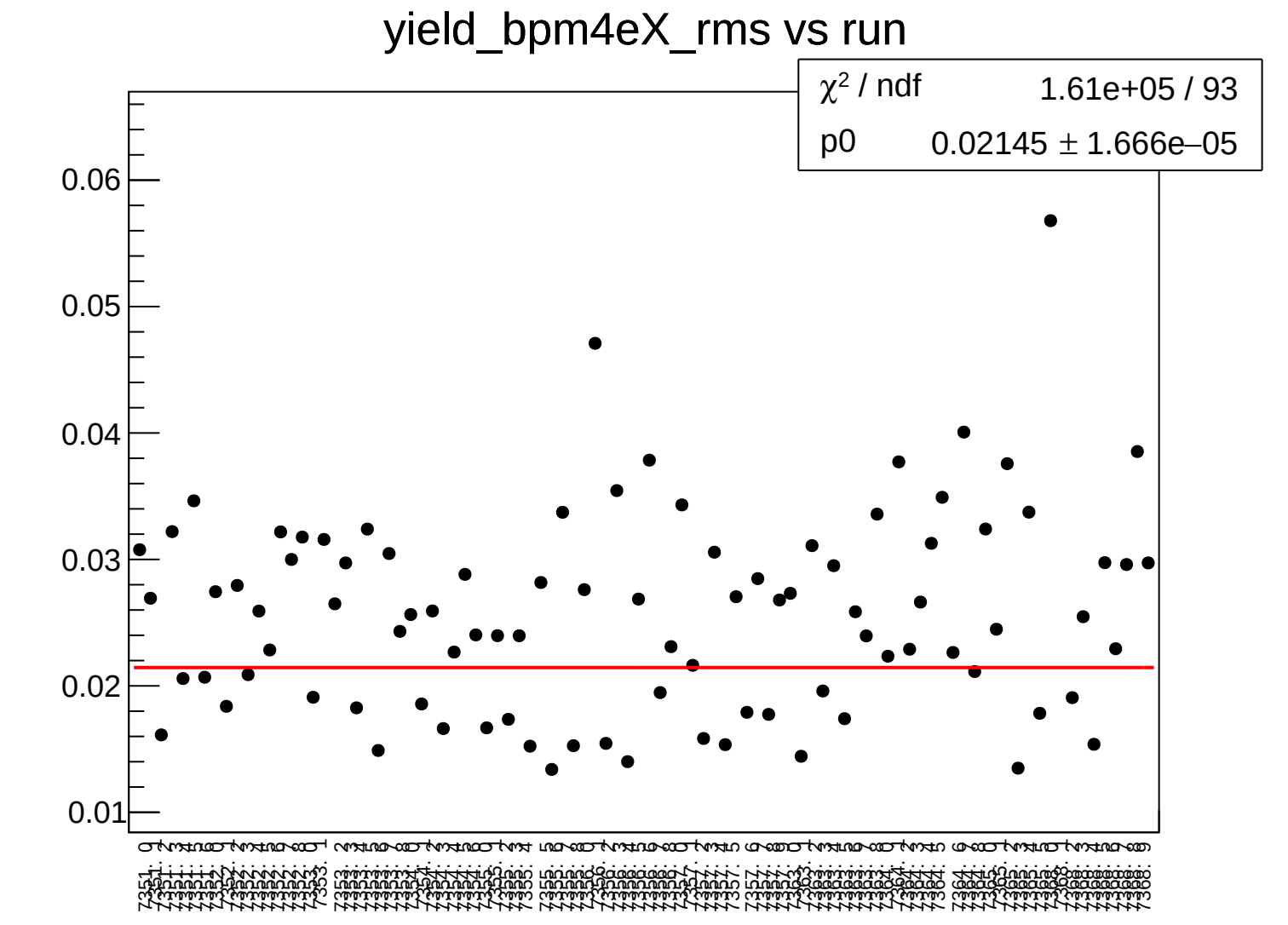

yield_bpm4aX_rms vs run
χ² / ndf 3.091e+05 / 93
p0 0.01635 ± 1.33e−05
0.06
0.05
0.04
0.03
0.02
0.01

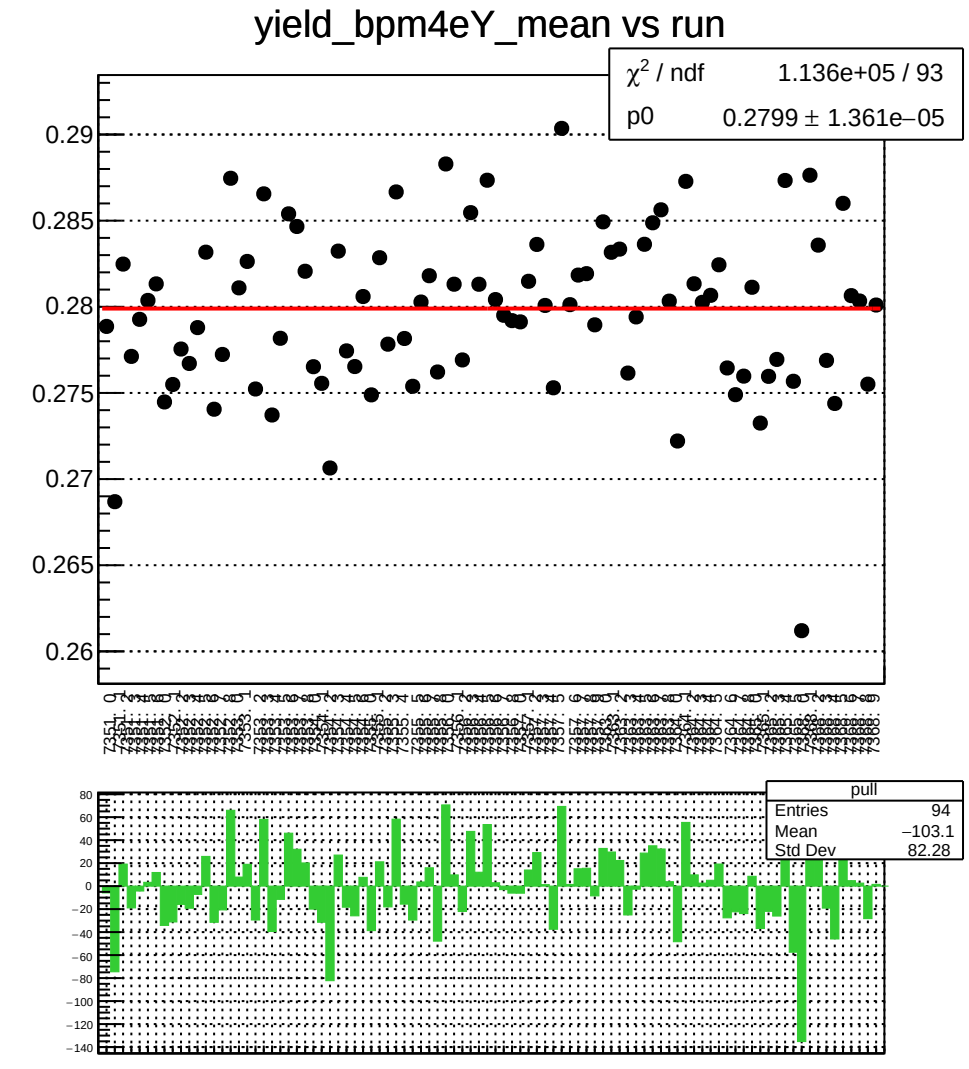

yield_bpm4aY_mean vs run
χ² / ndf 1.283e+05 / 93
p0 0.5148 ± 1.103e−05
0.525
0.52
0.515
0.51
0.505
0.5
pull
Entries 94
Mean −1338
Std Dev 0
100
50
0
−50
−100
−150
pull1D
Entries 94
Mean 0.1913
Std Dev 4.049
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

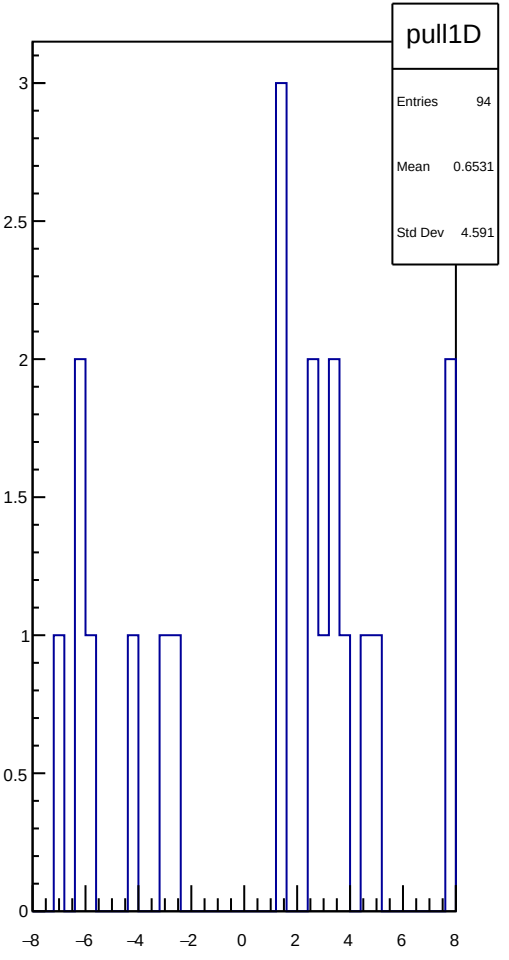
yield_bpm4aY_rms vs run

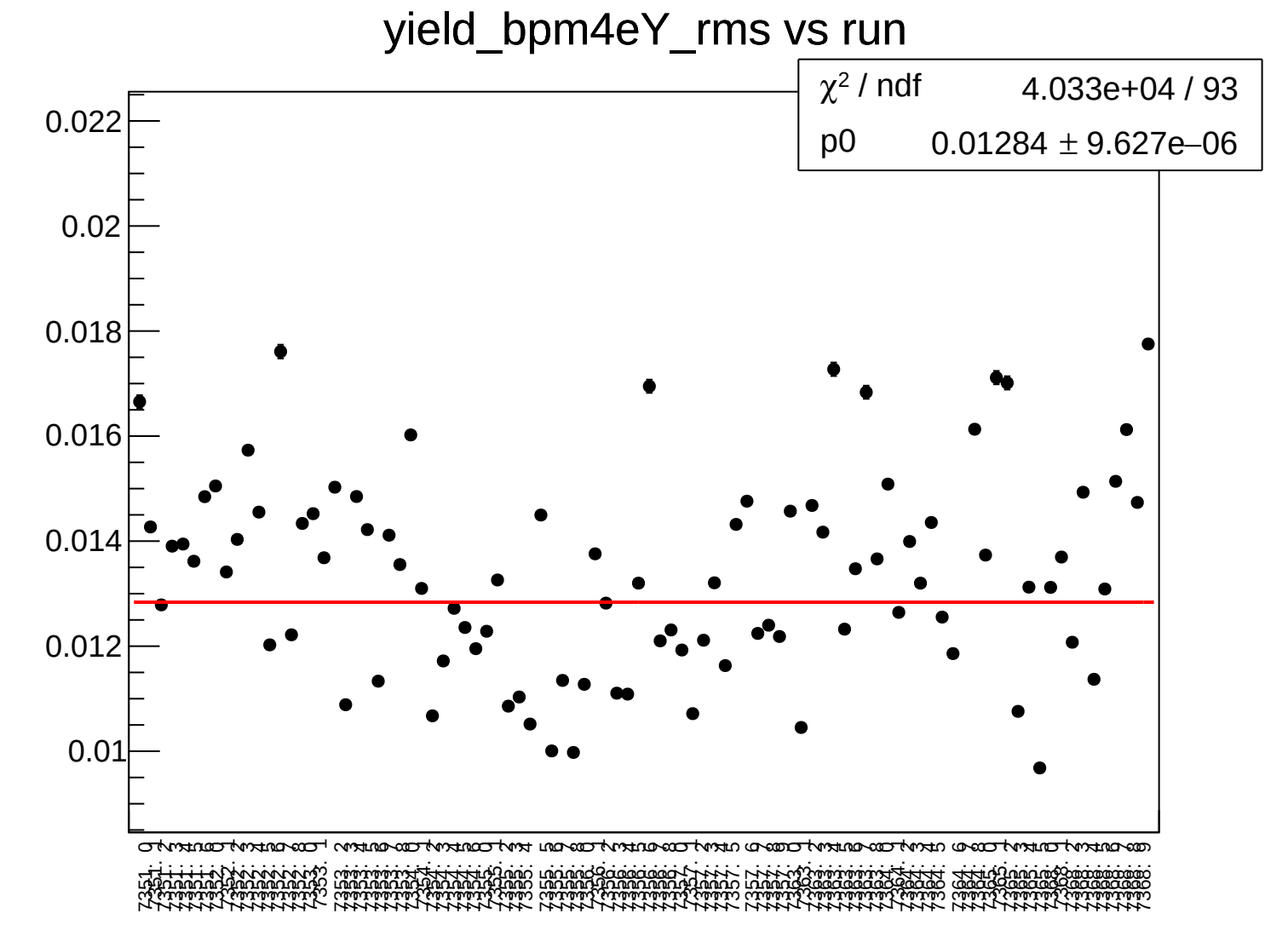


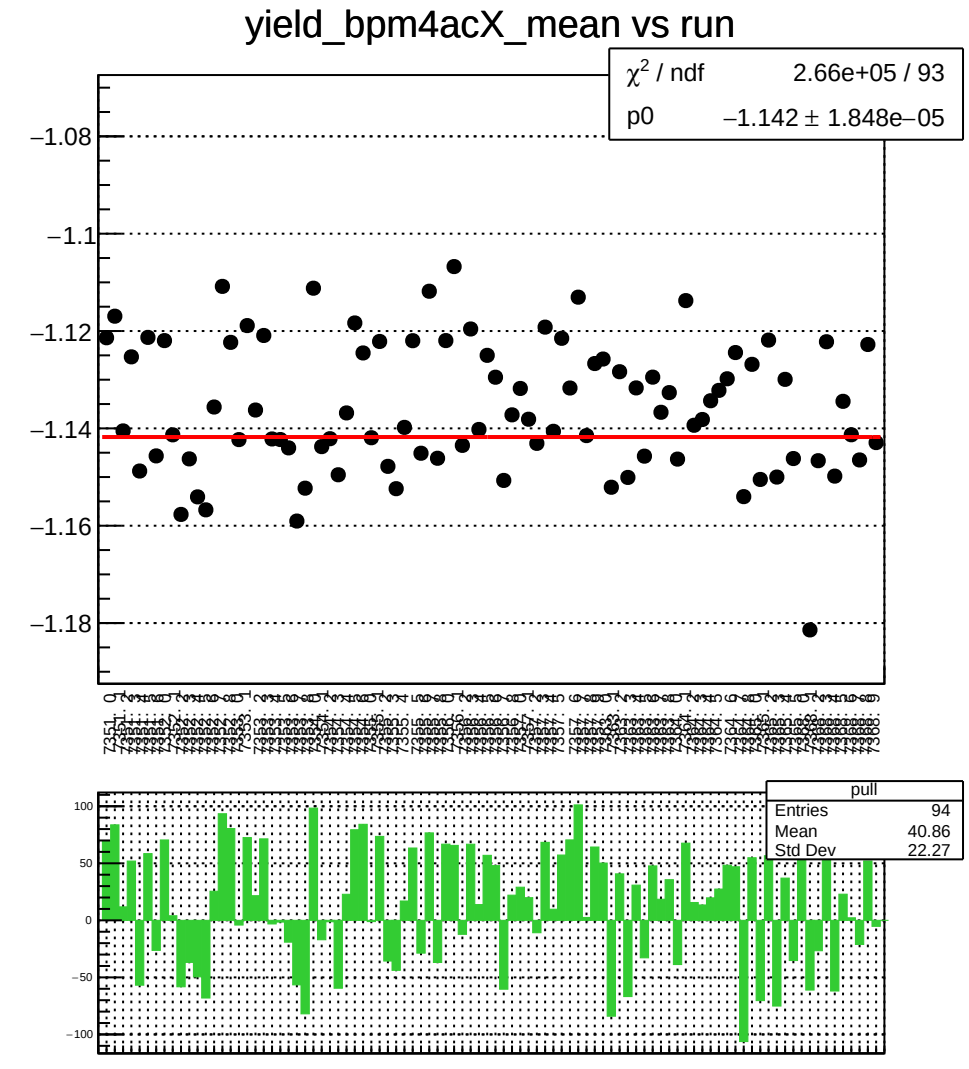

yield_bpm4eX_mean vs run
χ² / ndf 2.259e+05 / 93
p0 −0.3068 ± 2.356e−05
−0.26
−0.28
−0.3
−0.32
−0.34
−0.36
pull
Entries 94
Mean 56.24
Std Dev 24.2
100
50
0
−50
−100
pull1D
Entries 94
Mean −2.918
Std Dev 3.953
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

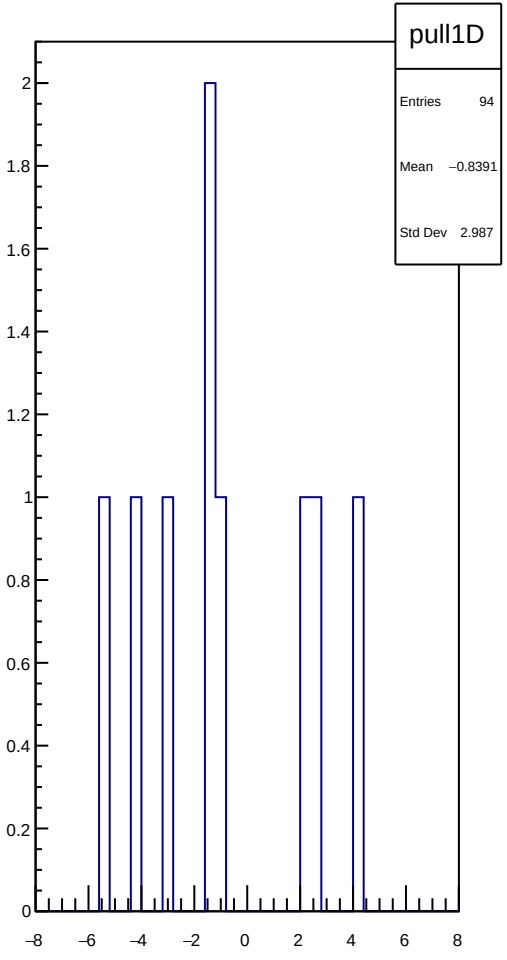

yield_bpm4eX_rms vs run
χ² / ndf 1.61e+05 / 93
p0 0.02145 ± 1.666e−05
0.06
0.05
0.04
0.03
0.02
0.01

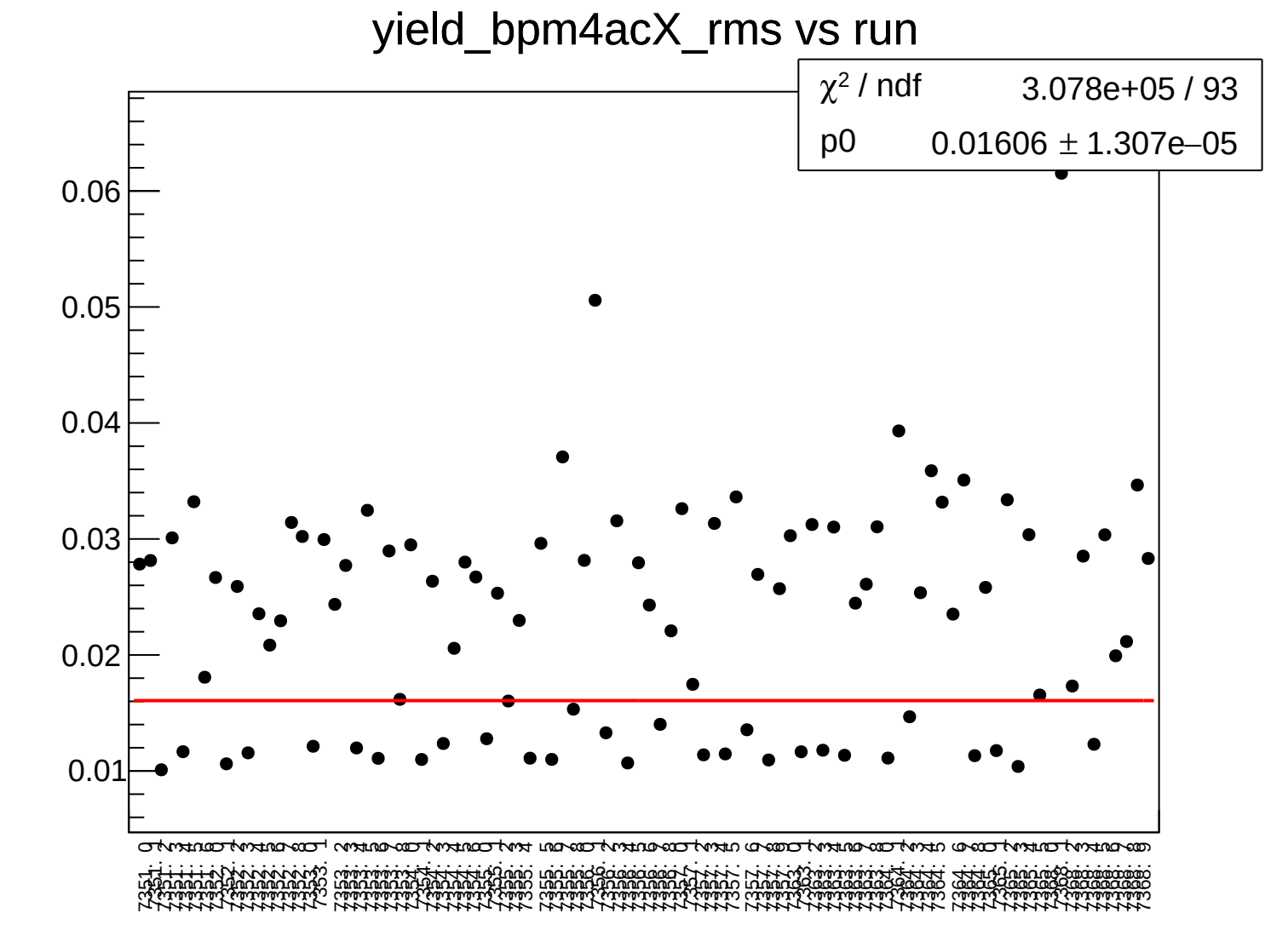

yield_bpm4eY_mean vs run
χ² / ndf 1.136e+05 / 93
p0 0.2799 ± 1.361e−05
0.29
0.285
0.28
0.275
0.27
0.265
0.26
pull
Entries 94
Mean −103.1
Std Dev 82.28
80
60
40
20
0
−20
−40
−60
−80
−100
−120
−140

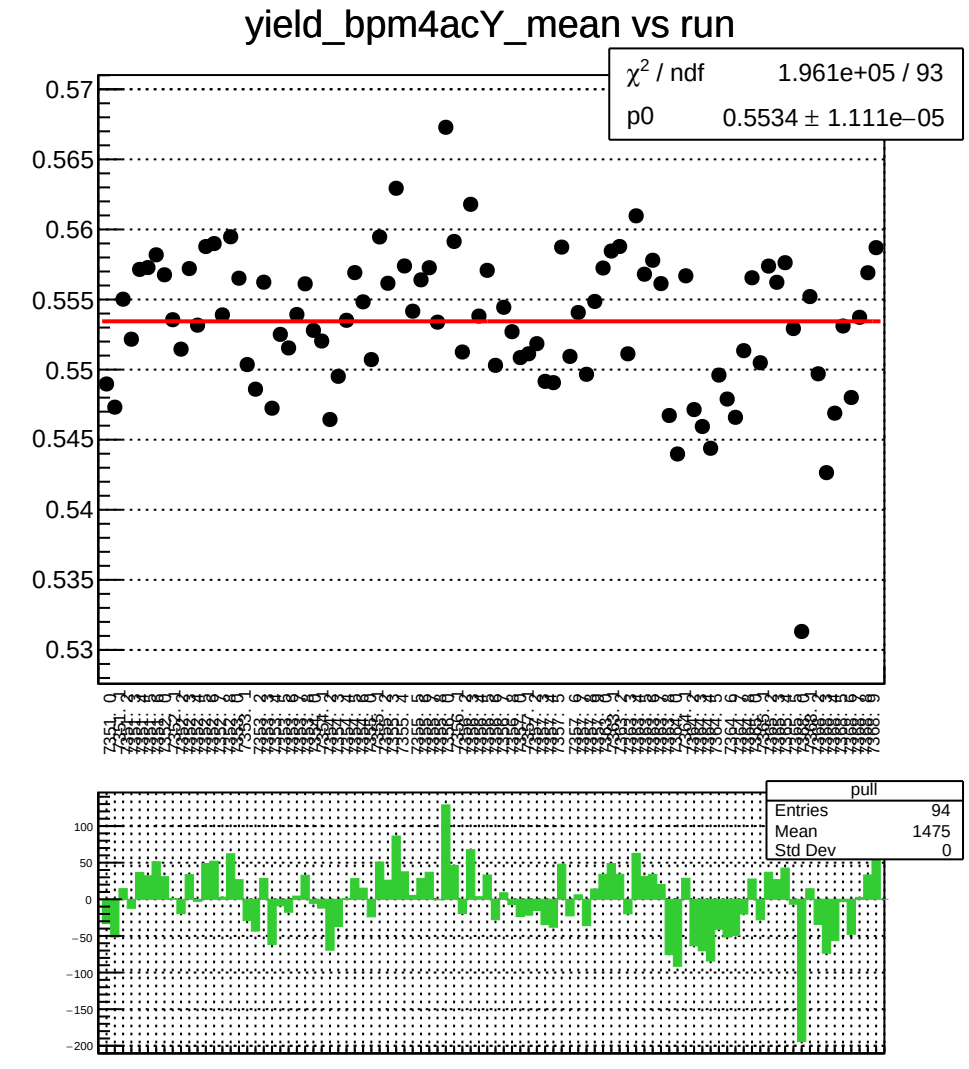

pull1D
Entries 94
Mean 0.6531
Std Dev 4.591
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

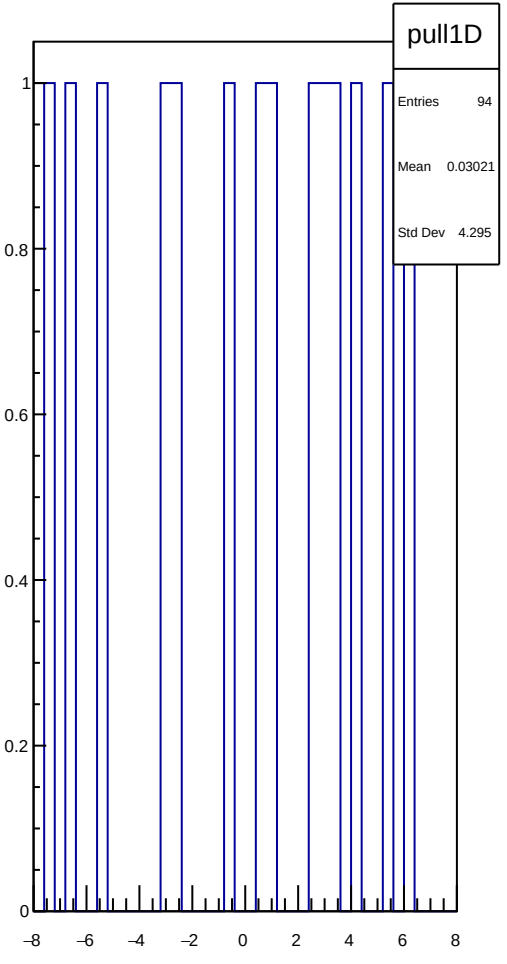

yield_bpm4eY_rms vs run
χ² / ndf 4.033e+04 / 93
p0 0.01284 ± 9.627e–06
0.022
0.02
0.018
0.016
0.014
0.012
0.01

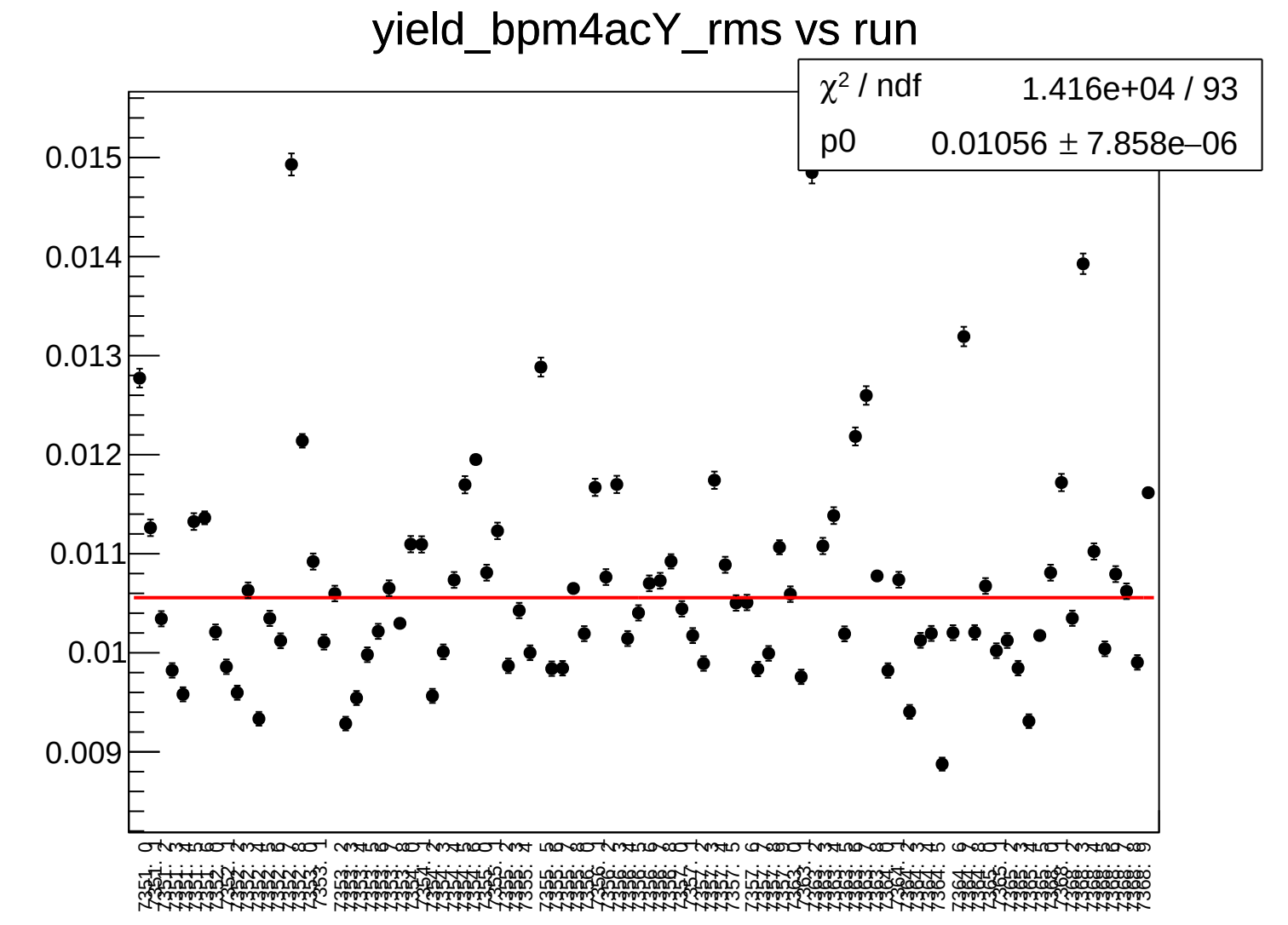

yield_bpm4acX_mean vs run
χ² / ndf 2.66e+05 / 93
p0 −1.142 ± 1.848e−05
−1.08
−1.1
−1.12
−1.14
−1.16
−1.18
pull
Entries 94
Mean 40.86
Std Dev 22.27
100
50
0
−50
−100

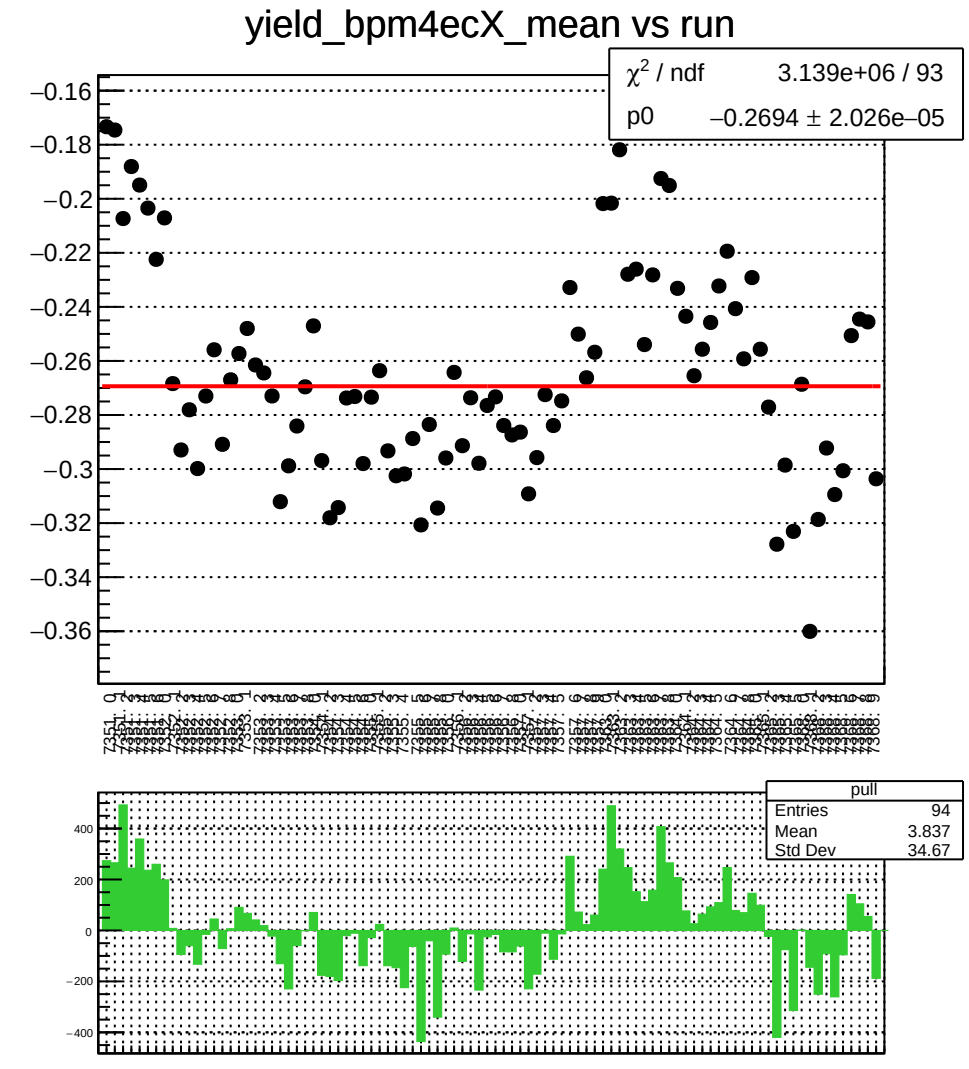

pull1D
Entries 94
Mean −0.8391
Std Dev 2.987
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

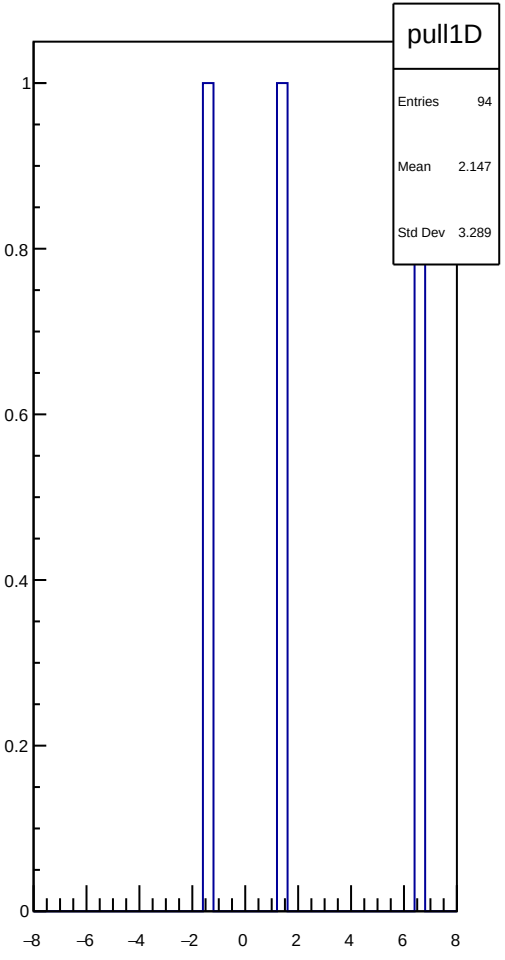

yield_bpm4acX_rms vs run
χ² / ndf 3.078e+05 / 93
p0 0.01606 ± 1.307e–05
0.06
0.05
0.04
0.03
0.02
0.01

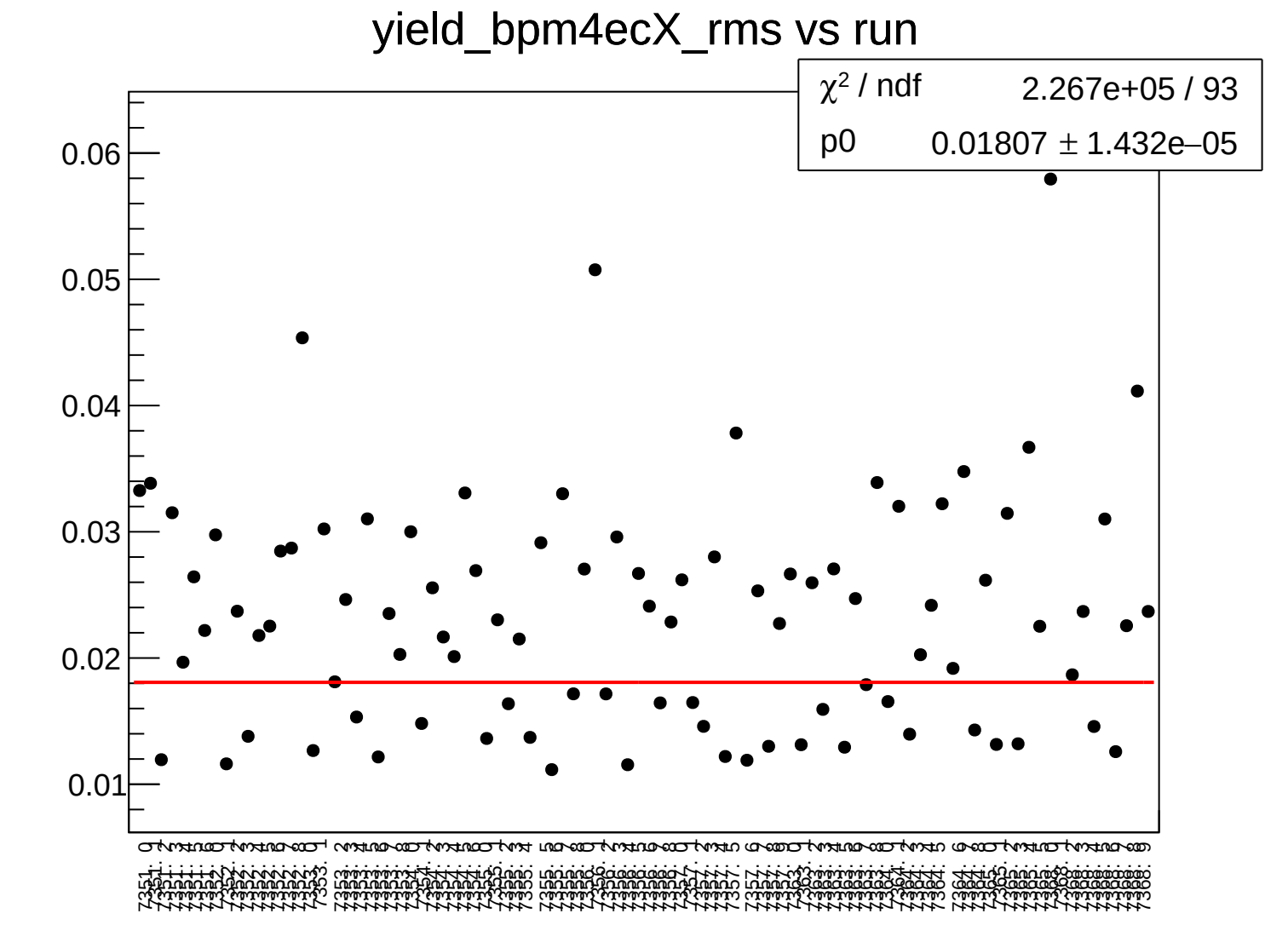

yield_bpm4acY_mean vs run
χ² / ndf 1.961e+05 / 93
p0 0.5534 ± 1.111e−05
0.57
0.565
0.56
0.555
0.55
0.545
0.54
0.535
0.53
pull
Entries 94
Mean 1475
Std Dev 0
100
50
0
−50
−100
−150
−200

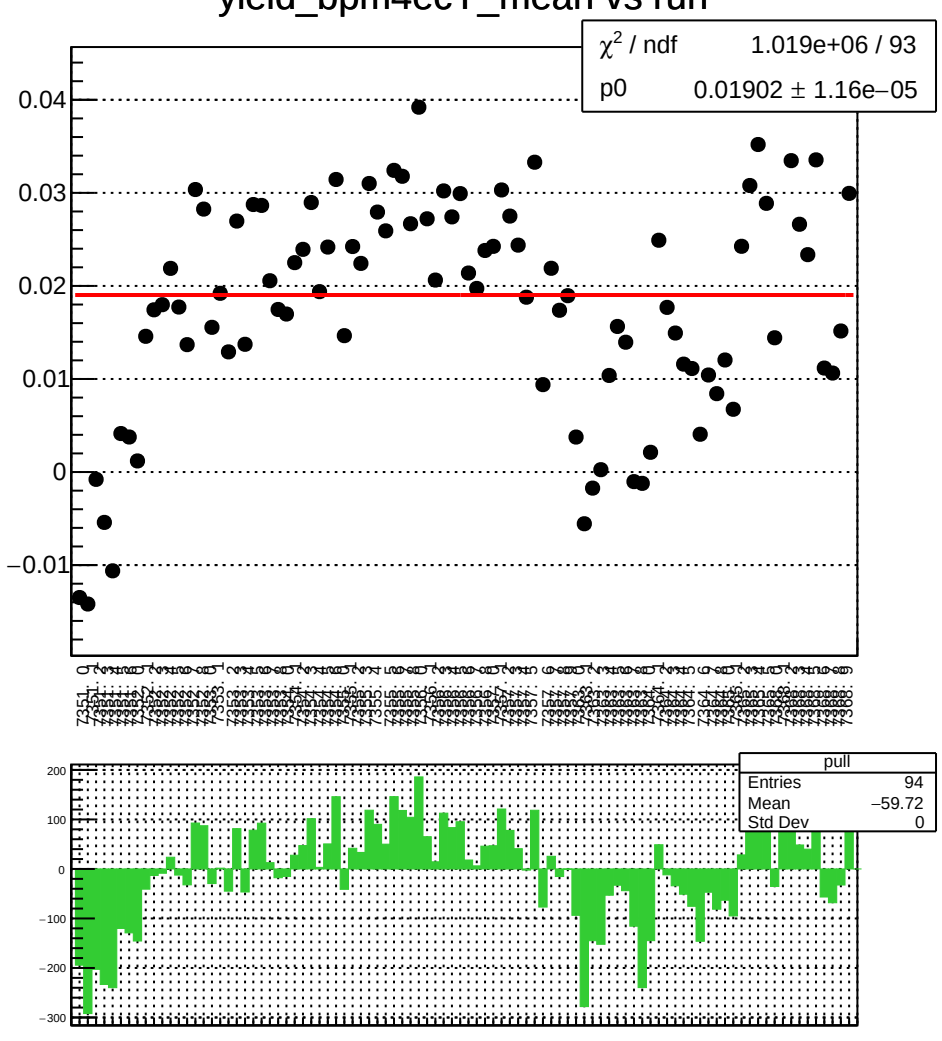

pull1D
Entries 94
Mean 0.03021
Std Dev 4.295
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

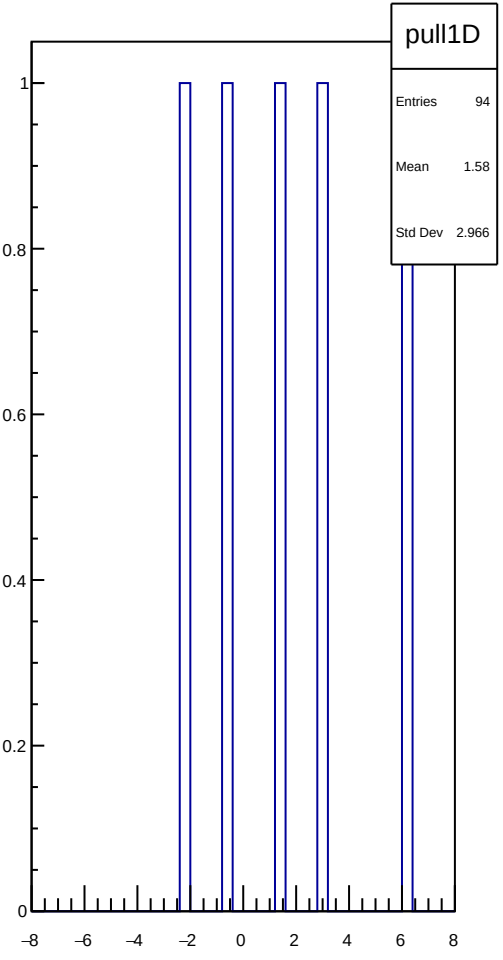

yield_bpm4acY_rms vs run
χ² / ndf 1.416e+04 / 93
p0 0.01056 ± 7.858e–06
0.015
0.014
0.013
0.012
0.011
0.01
0.009

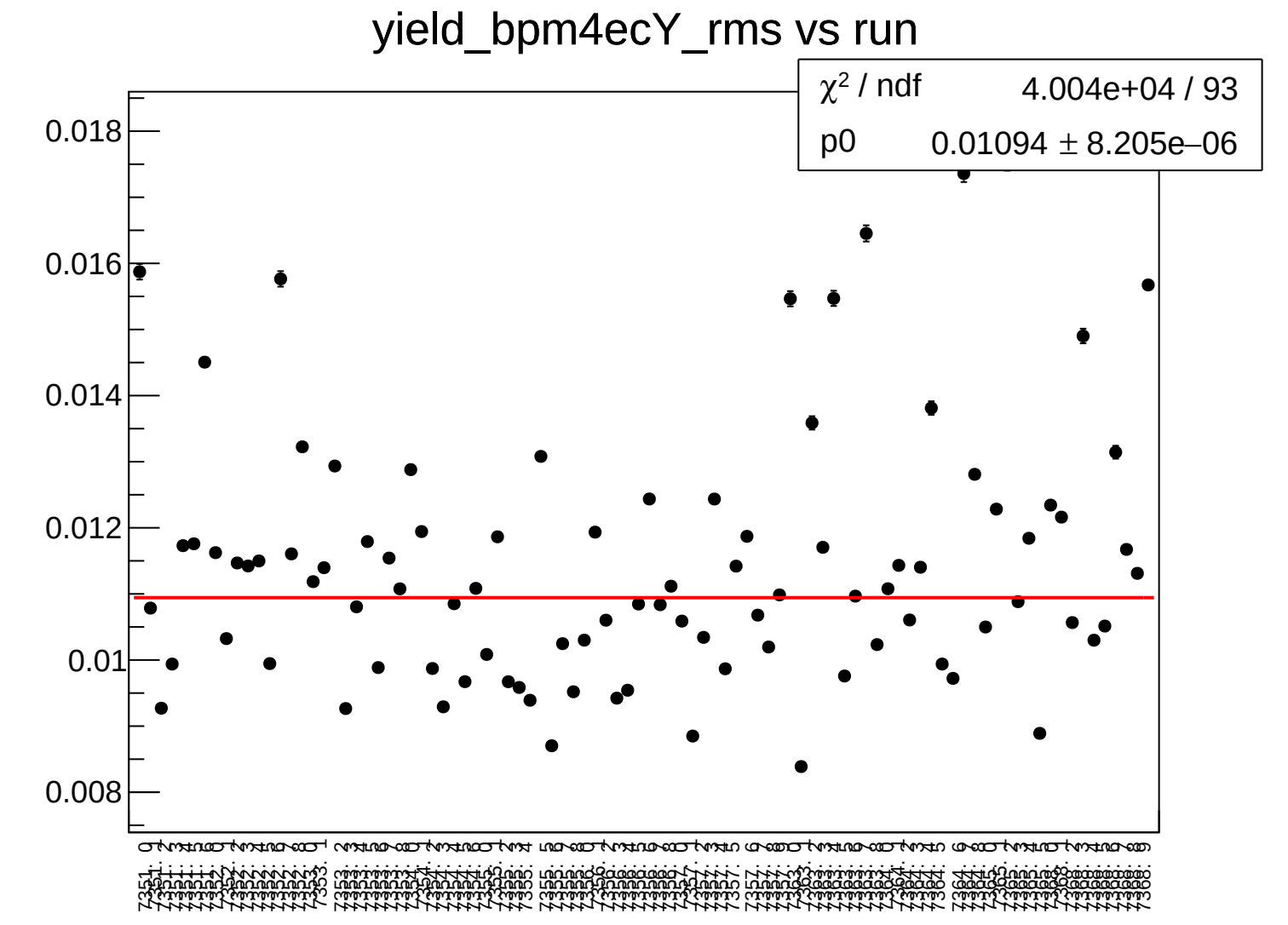

yield_bpm4ecX_mean vs run
χ² / ndf 3.139e+06 / 93
p0 −0.2694 ± 2.026e−05
−0.16
−0.18
−0.2
−0.22
−0.24
−0.26
−0.28
−0.3
−0.32
−0.34
−0.36
pull
Entries 94
Mean 3.837
Std Dev 34.67
400
200
0
−200
−400

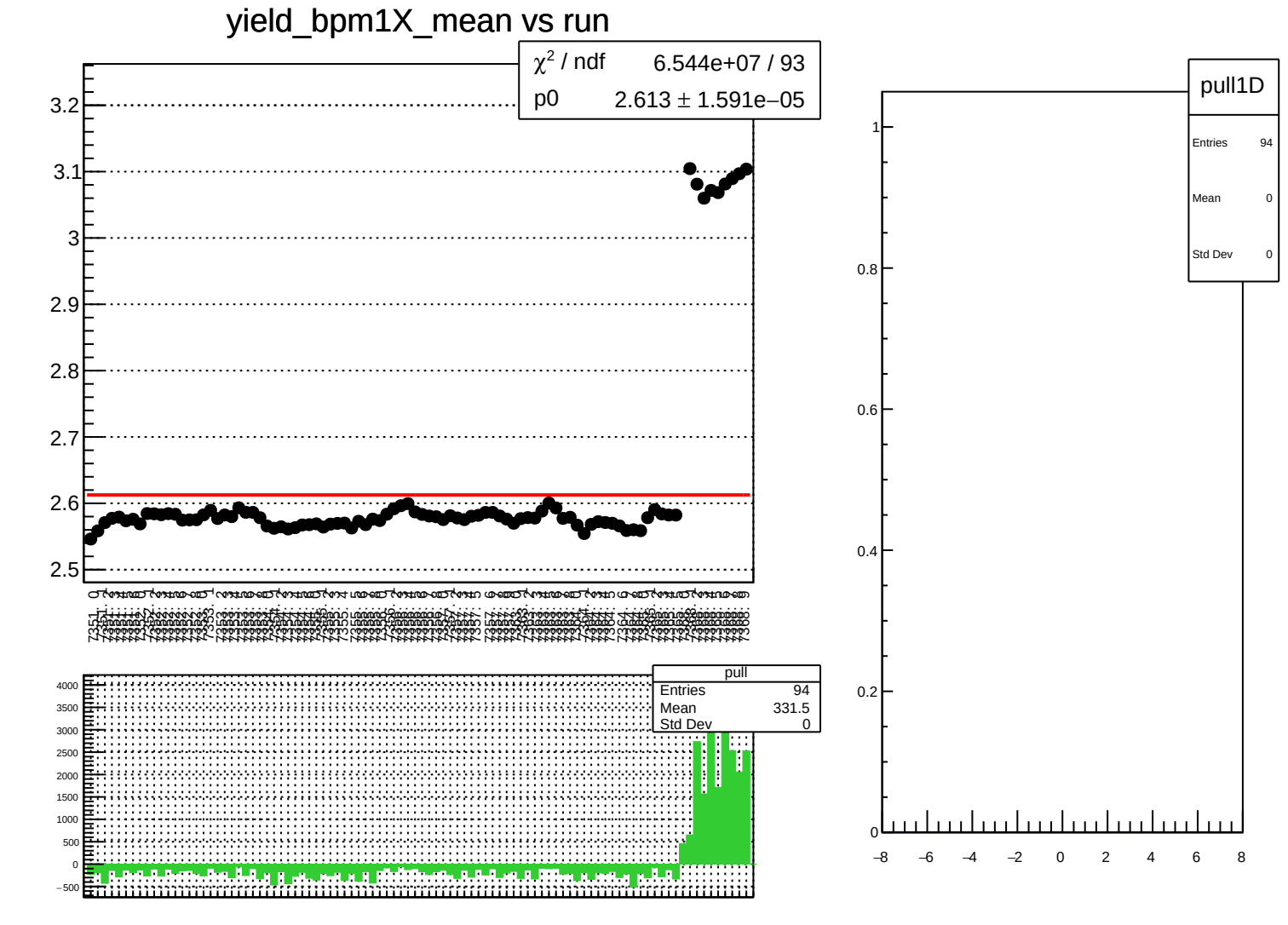

pull1D
Entries 94
Mean 2.147
Std Dev 3.289
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

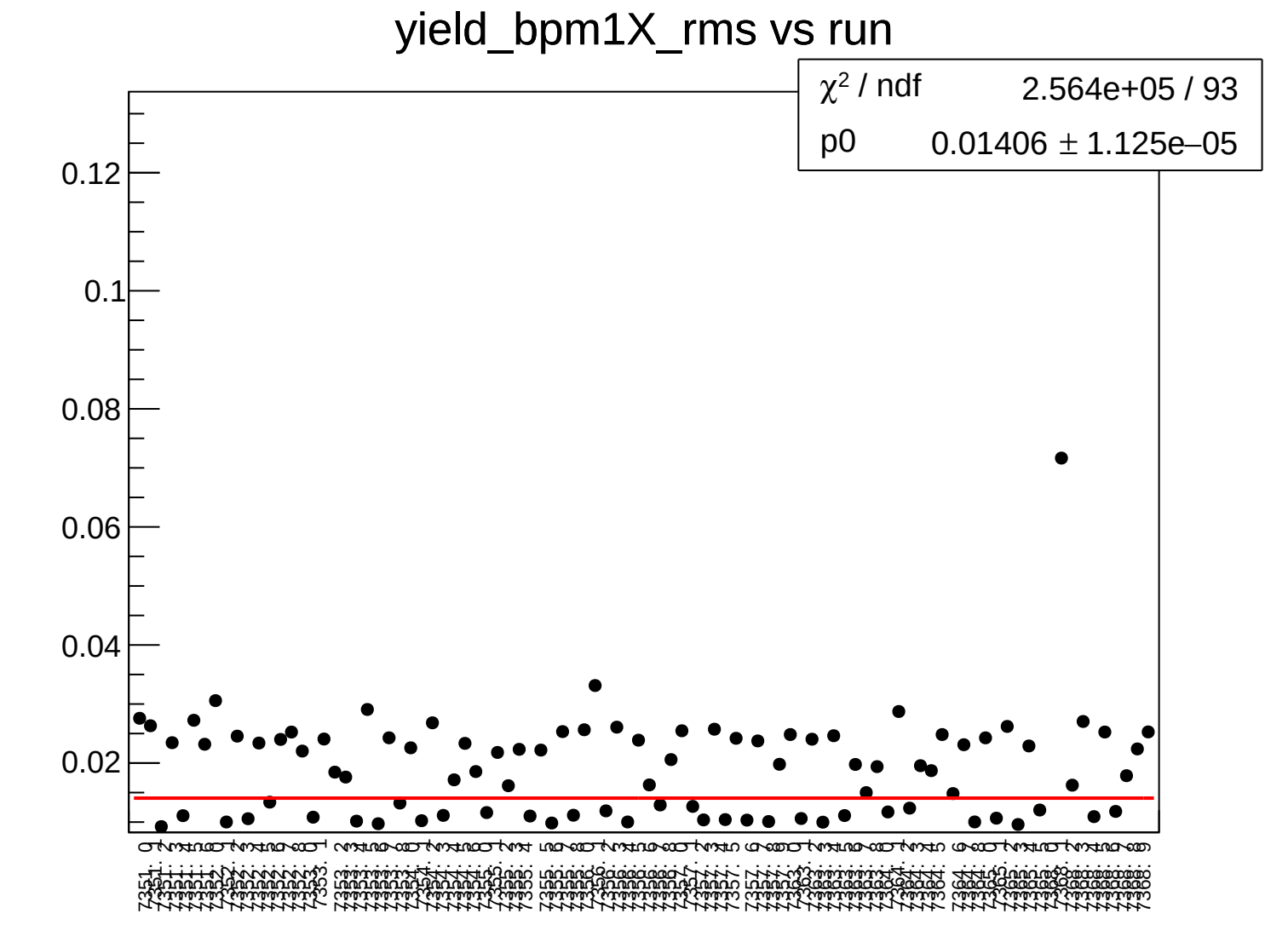

yield_bpm4ecX_rms vs run
χ² / ndf 2.267e+05 / 93
p0 0.01807 ± 1.432e–05
0.06
0.05
0.04
0.03
0.02
0.01

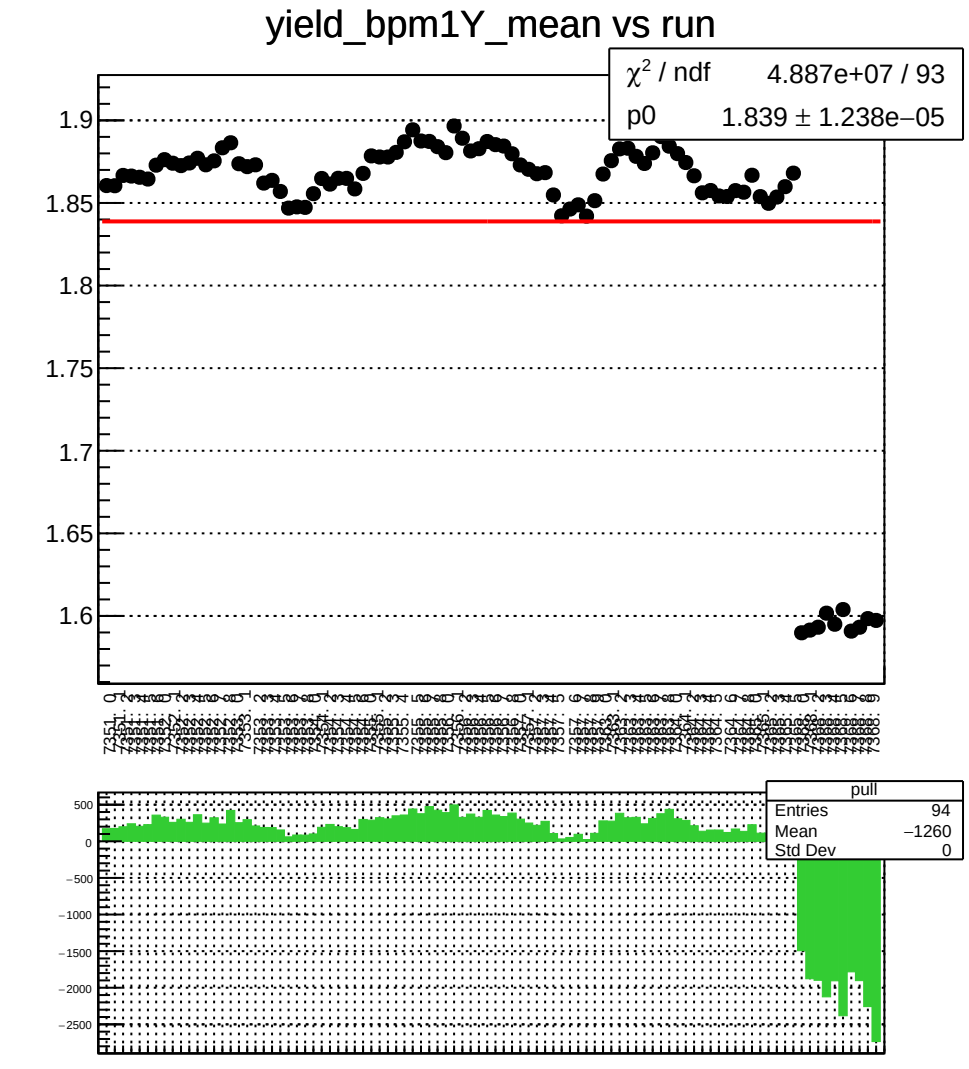

yield_bpm4ecY_mean vs run
χ² / ndf 1.019e+06 / 93
p0 0.01902 ± 1.16e−05
0.04
0.03
0.02
0.01
0
−0.01
pull
Entries 94
Mean −59.72
Std Dev 0
200
100
0
−100
−200
−300

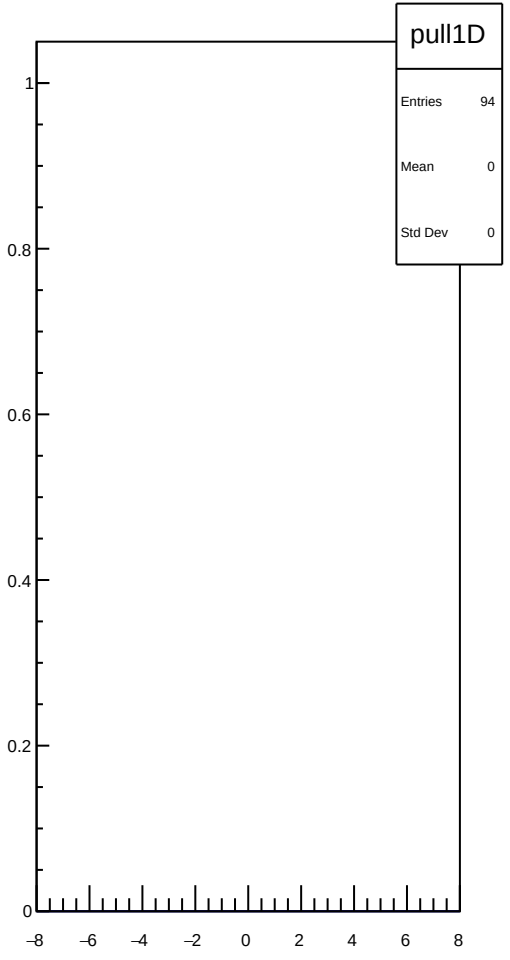

pull1D
Entries 94
Mean 1.58
Std Dev 2.966
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

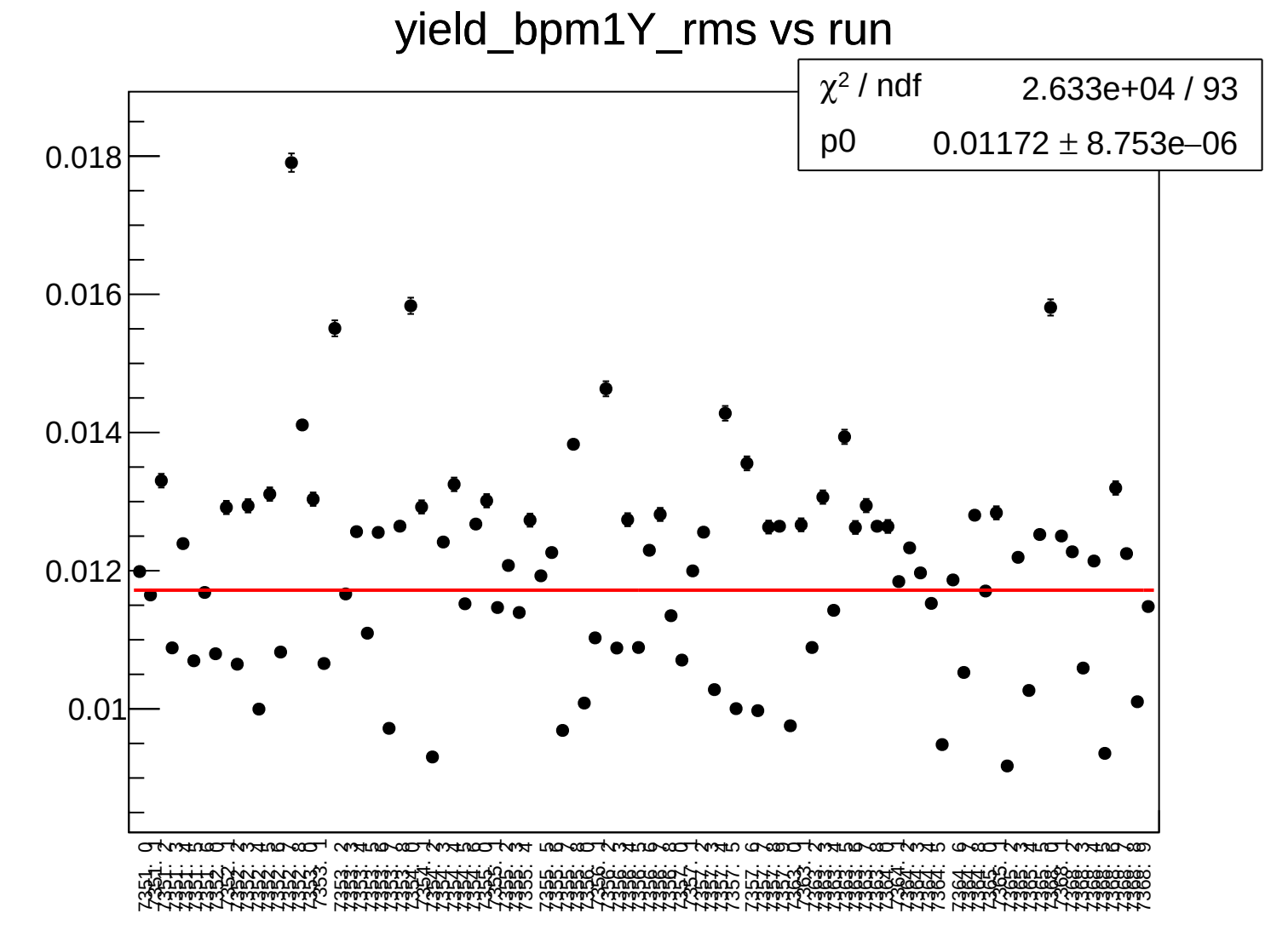

yield_bpm4ecY_rms vs run
χ² / ndf 4.004e+04 / 93
p0 0.01094 ± 8.205e–06
0.018
0.016
0.014
0.012
0.01
0.008

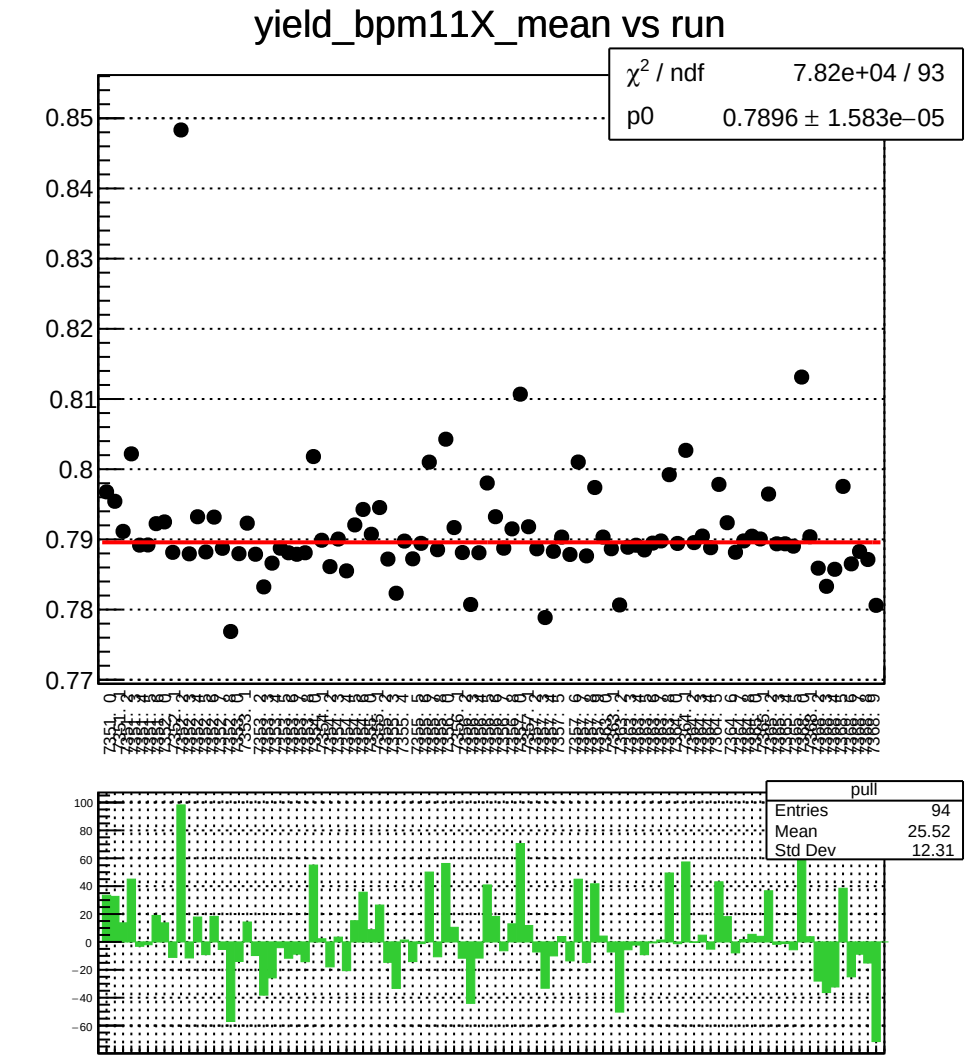

yield_bpm1X_mean vs run
χ² / ndf 6.544e+07 / 93
p0 2.613 ± 1.591e−05
3.2
3.1
3
2.9
2.8
2.7
2.6
2.5
pull
Entries 94
Mean 331.5
Std Dev 0
4000
3500
3000
2500
2000
1500
1000
500
0
−500
pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

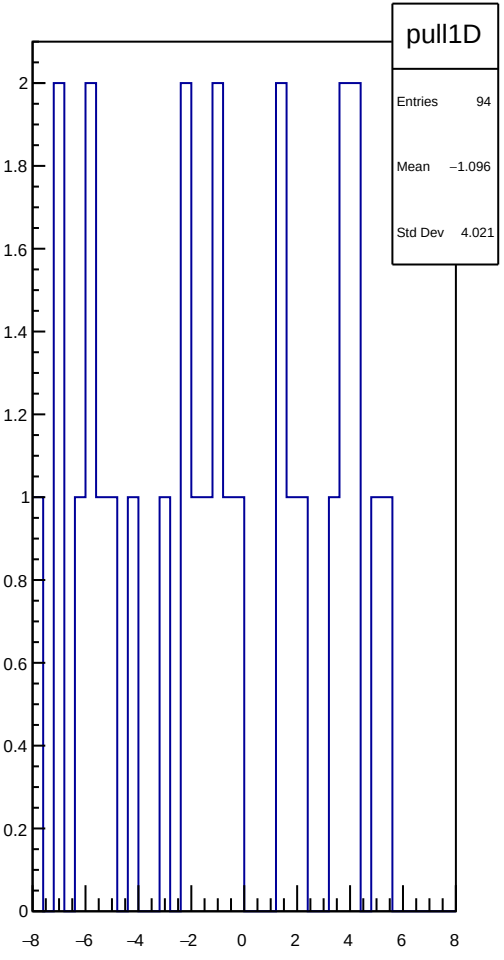

yield_bpm1X_rms vs run
χ² / ndf 2.564e+05 / 93
p0 0.01406 ± 1.125e−05
0.12
0.1
0.08
0.06
0.04
0.02

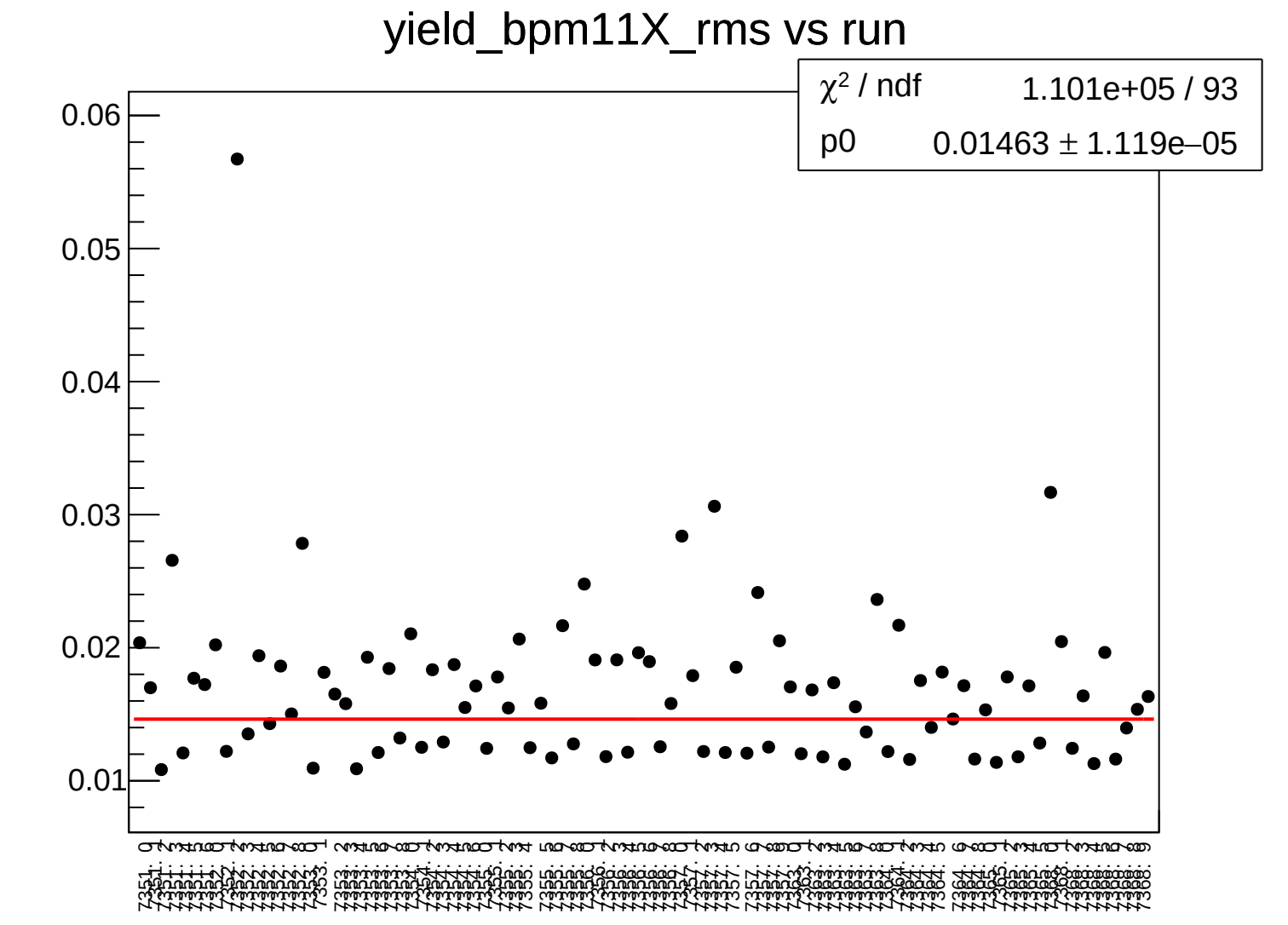

yield_bpm1Y_mean vs run
χ² / ndf 4.887e+07 / 93
p0 1.839 ± 1.238e−05
1.9
1.85
1.8
1.75
1.7
1.65
1.6
pull
Entries 94
Mean −1260
Std Dev 0
500
0
−500
−1000
−1500
−2000
−2500

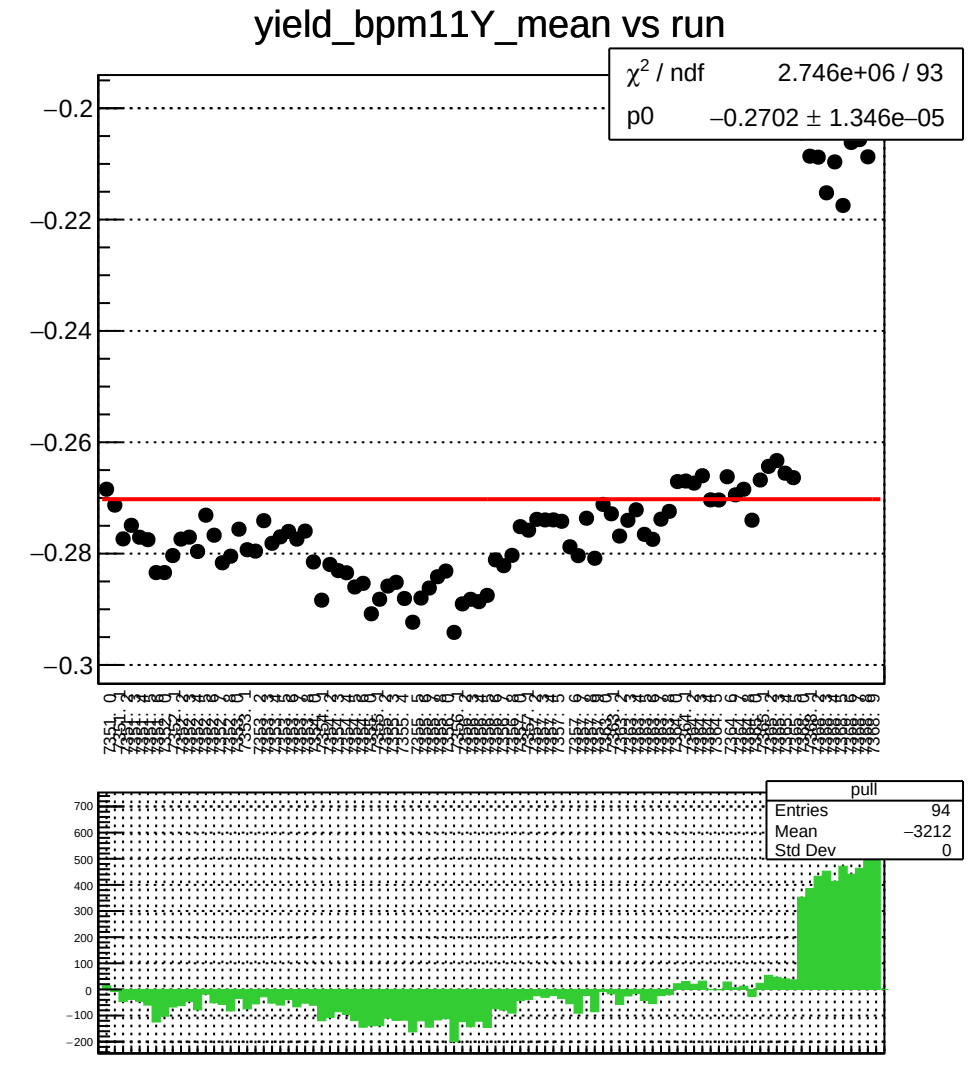

pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

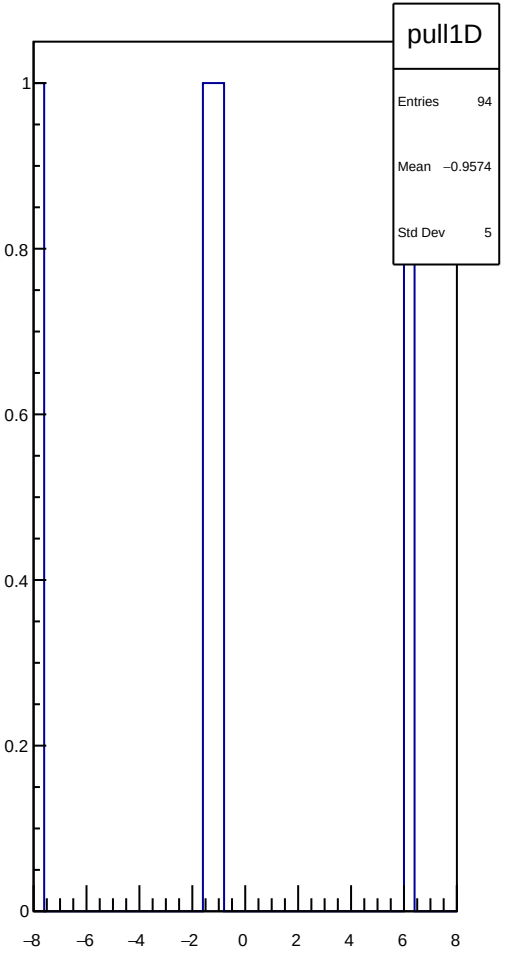

yield_bpm1Y_rms vs run
χ² / ndf 2.633e+04 / 93
p0 0.01172 ± 8.753e–06
0.018
0.016
0.014
0.012
0.01

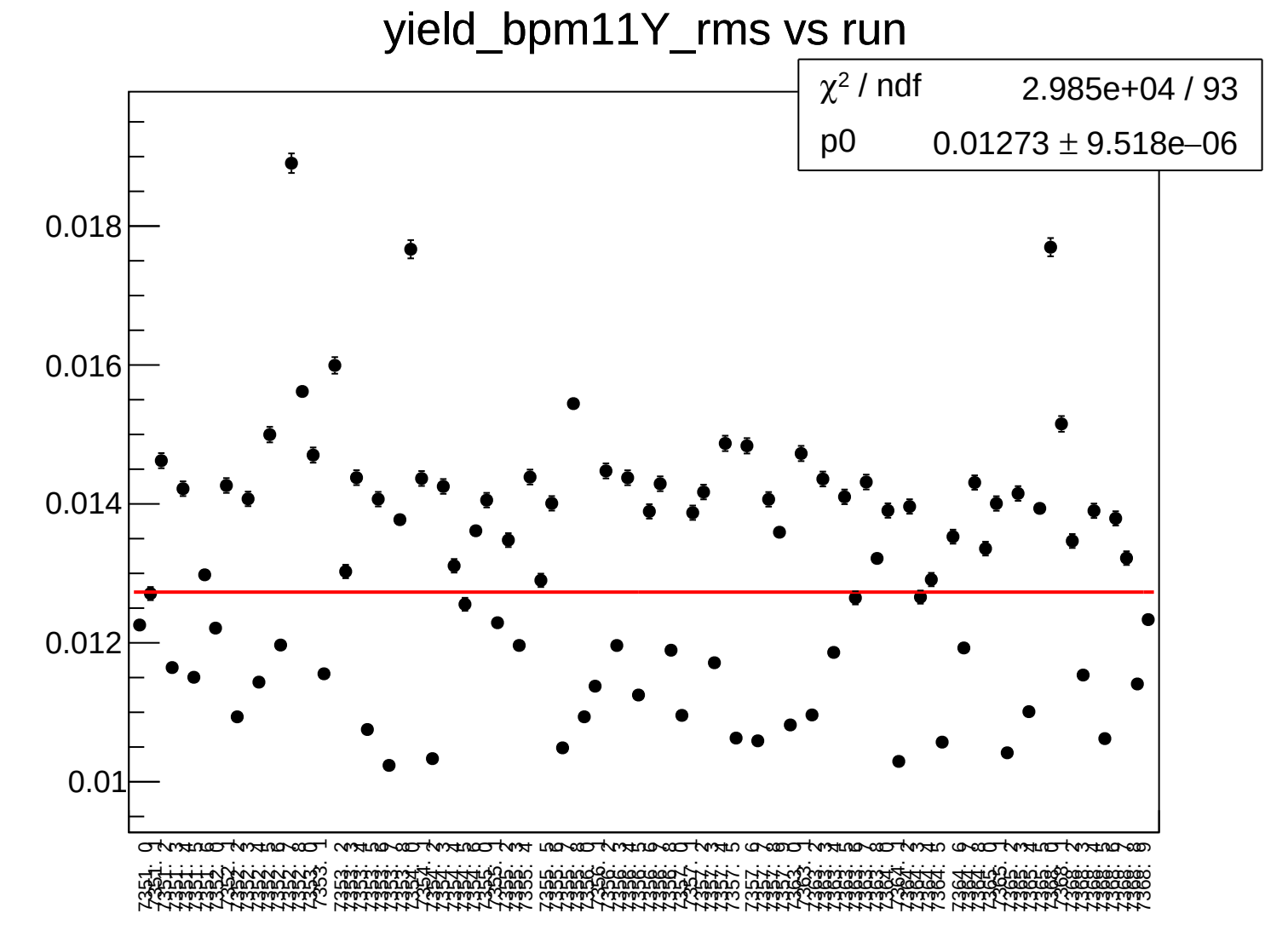

yield_bpm11X_mean vs run
χ² / ndf 7.82e+04 / 93
p0 0.7896 ± 1.583e−05
0.85
0.84
0.83
0.82
0.81
0.8
0.79
0.78
0.77
pull
Entries 94
Mean 25.52
Std Dev 12.31
100
80
60
40
20
0
−20
−40
−60

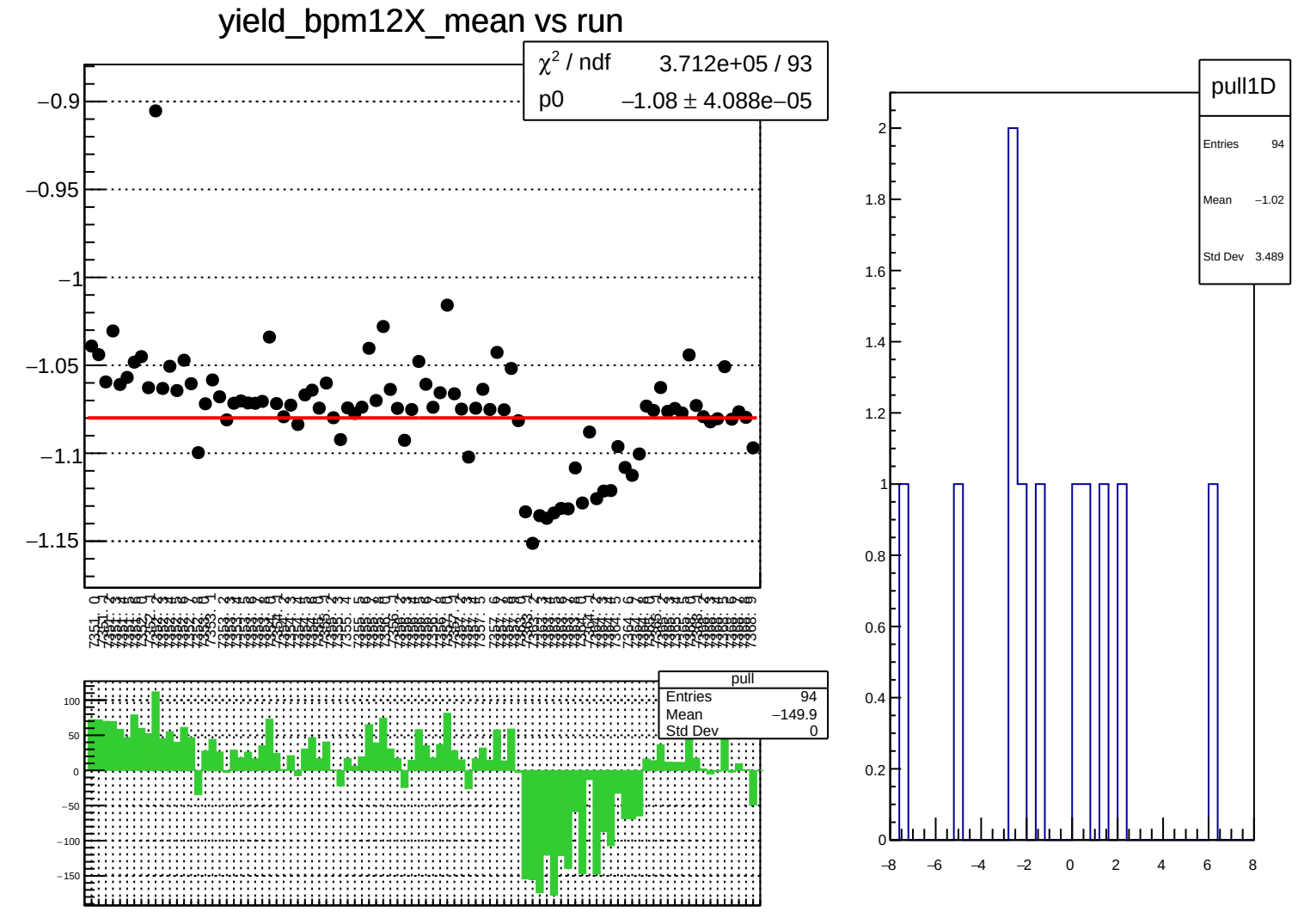

pull1D
Entries 94
Mean −1.096
Std Dev 4.021
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

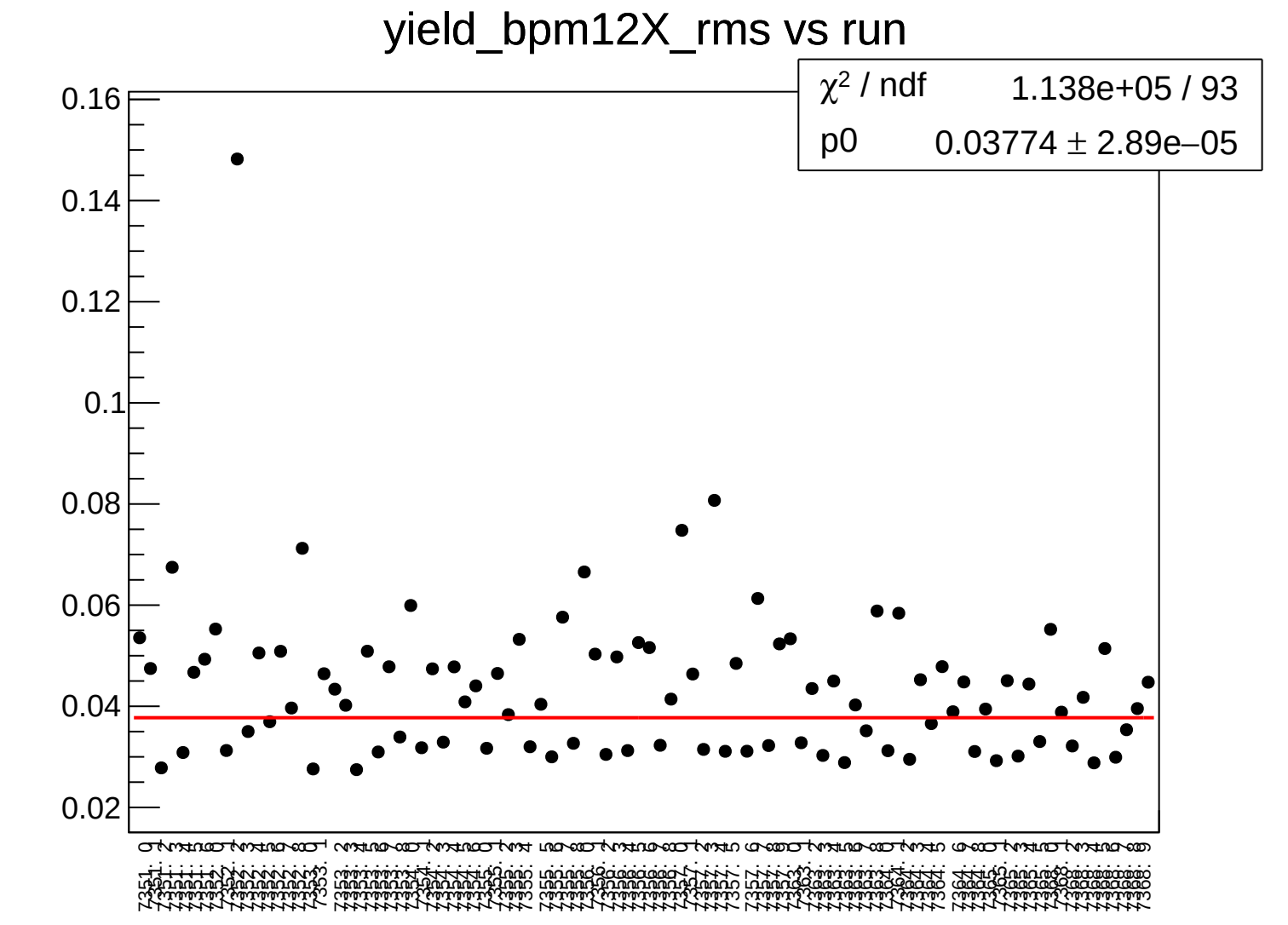

yield_bpm11X_rms vs run
χ² / ndf 1.101e+05 / 93
p0 0.01463 ± 1.119e–05
0.06
0.05
0.04
0.03
0.02
0.01

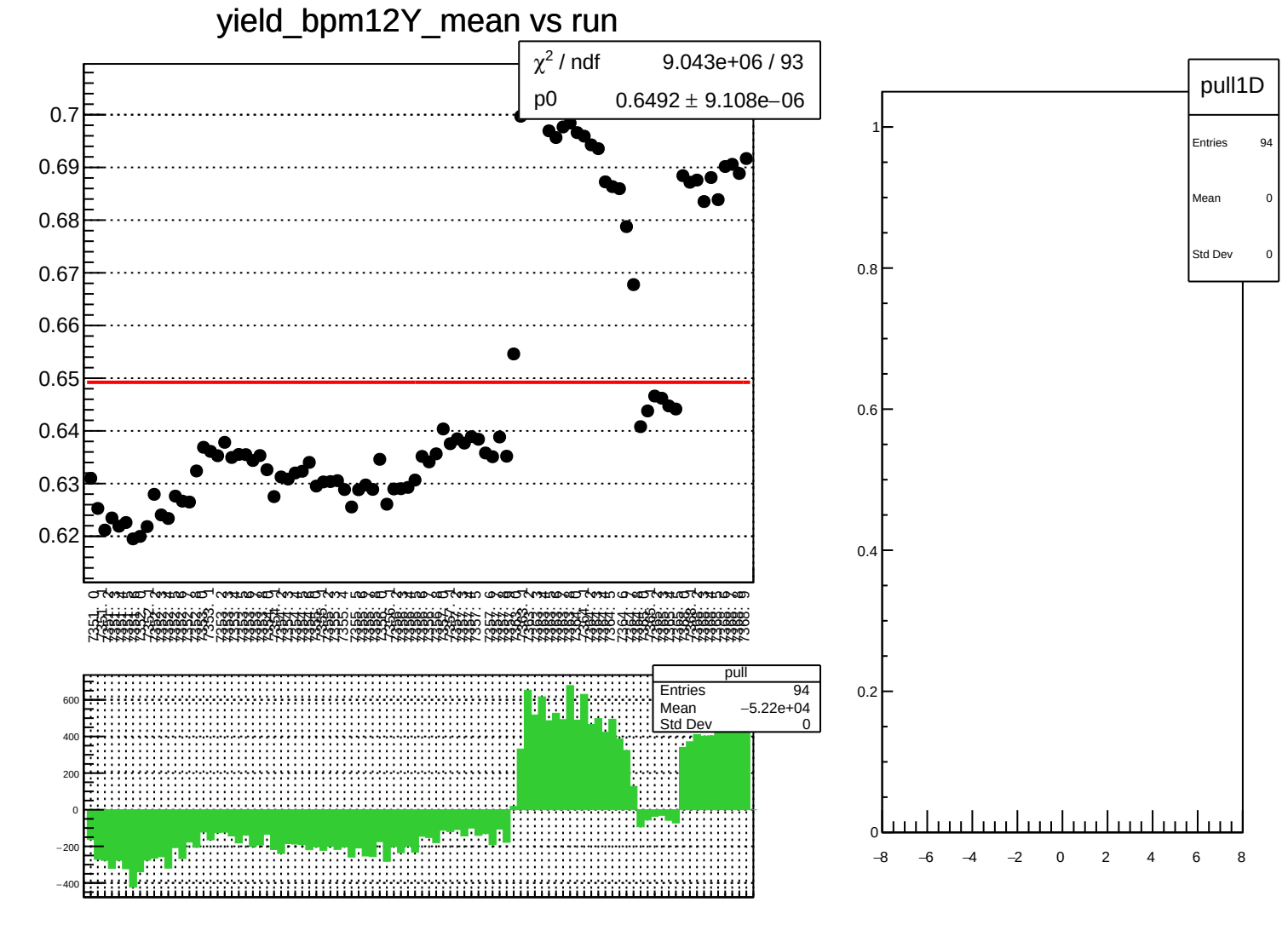

yield_bpm11Y_mean vs run
χ² / ndf 2.746e+06 / 93
p0 −0.2702 ± 1.346e−05
−0.2
−0.22
−0.24
−0.26
−0.28
−0.3
pull
Entries 94
Mean −3212
Std Dev 0
700
600
500
400
300
200
100
0
−100
−200

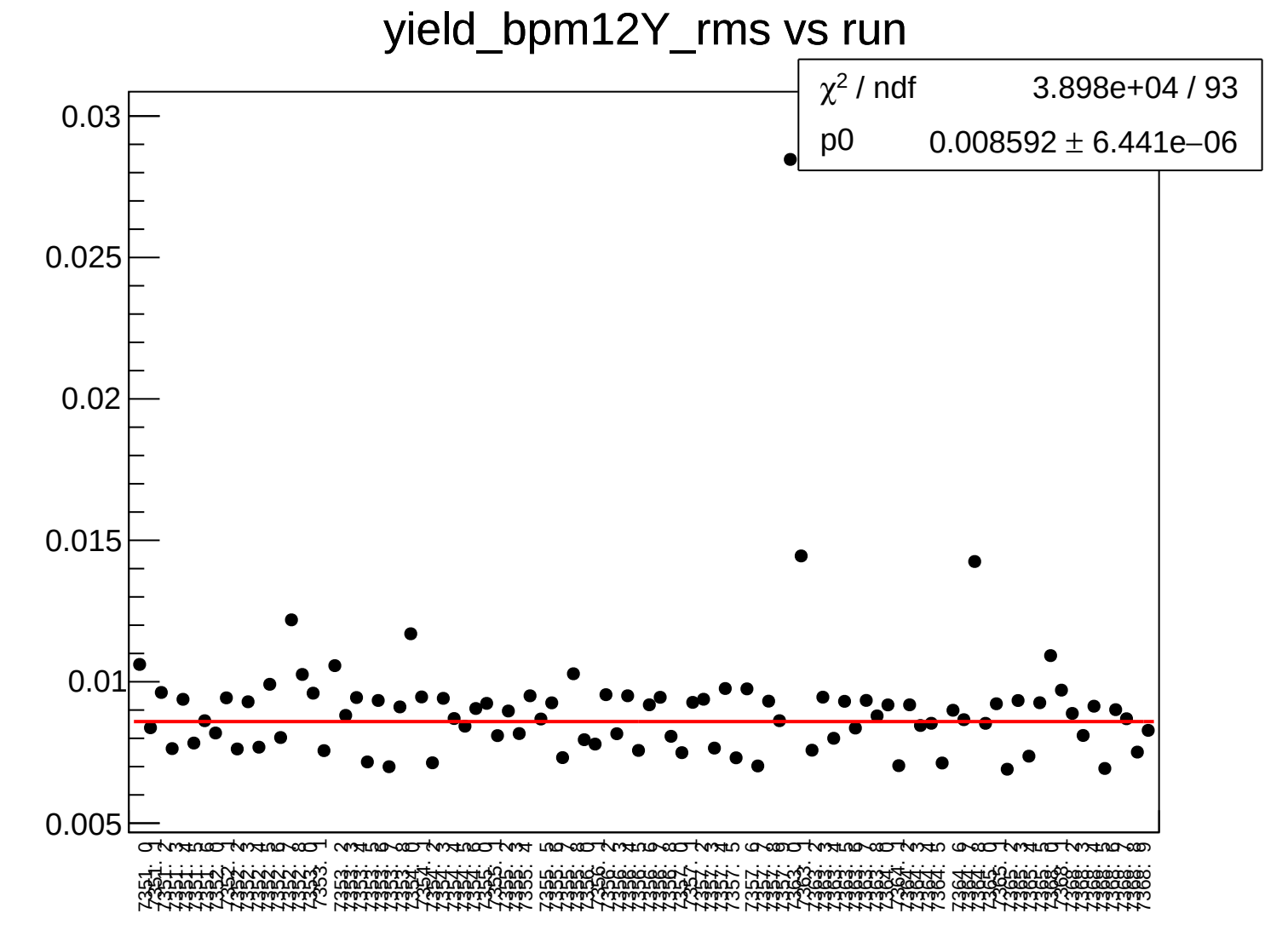

pull1D
Entries 94
Mean −0.9574
Std Dev 5
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

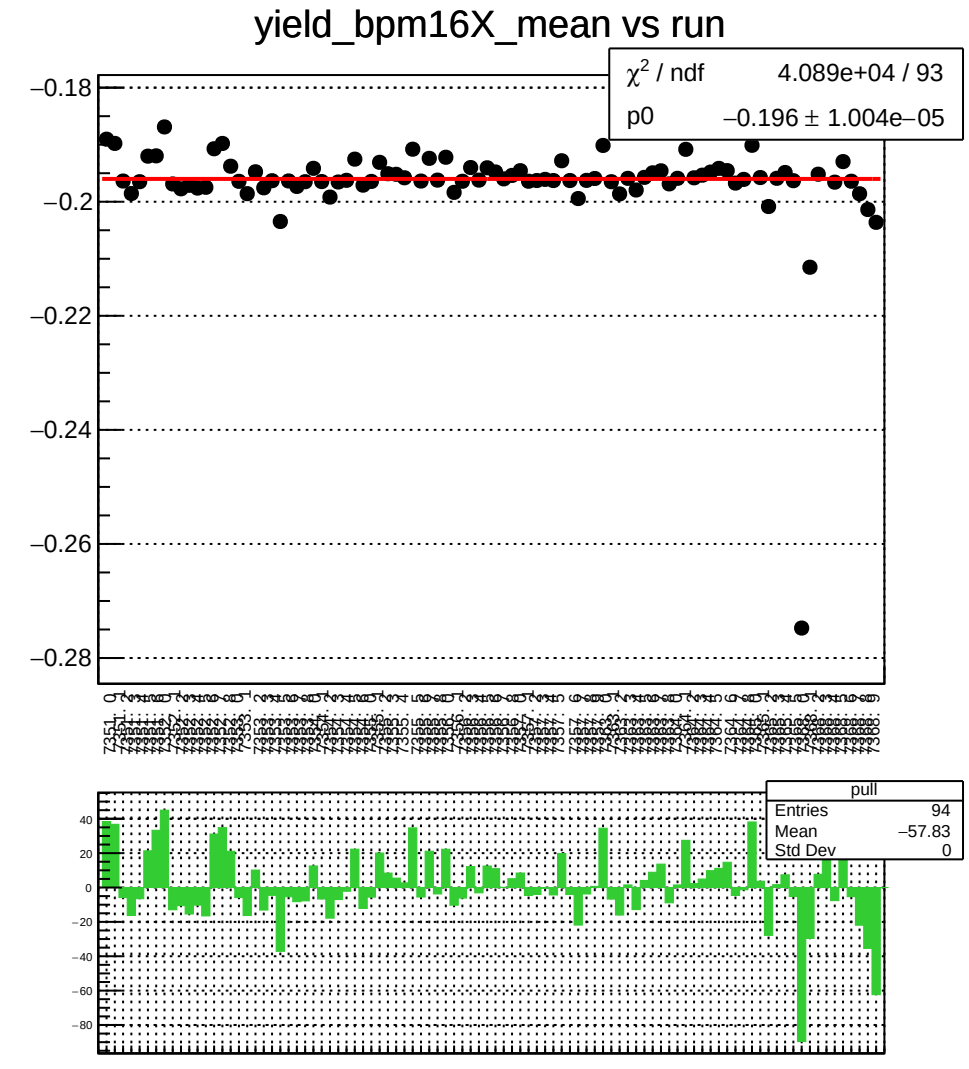

yield_bpm11Y_rms vs run
χ² / ndf 2.985e+04 / 93
p0 0.01273 ± 9.518e–06
0.018
0.016
0.014
0.012
0.01

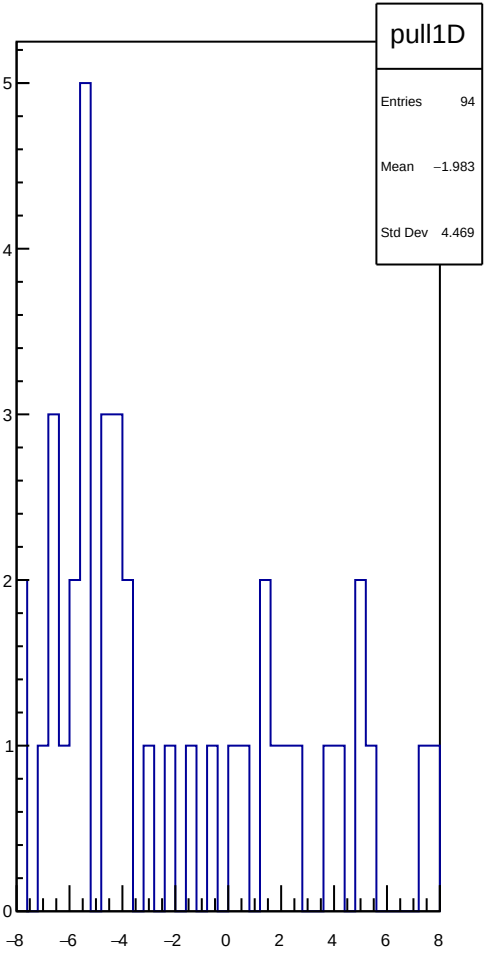

yield_bpm12X_mean vs run
χ² / ndf 3.712e+05 / 93
p0 −1.08 ± 4.088e−05
−0.9
−0.95
−1
−1.05
−1.1
−1.15
pull
Entries 94
Mean −149.9
Std Dev 0
100
50
0
−50
−100
−150
pull1D
Entries 94
Mean −1.02
Std Dev 3.489
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

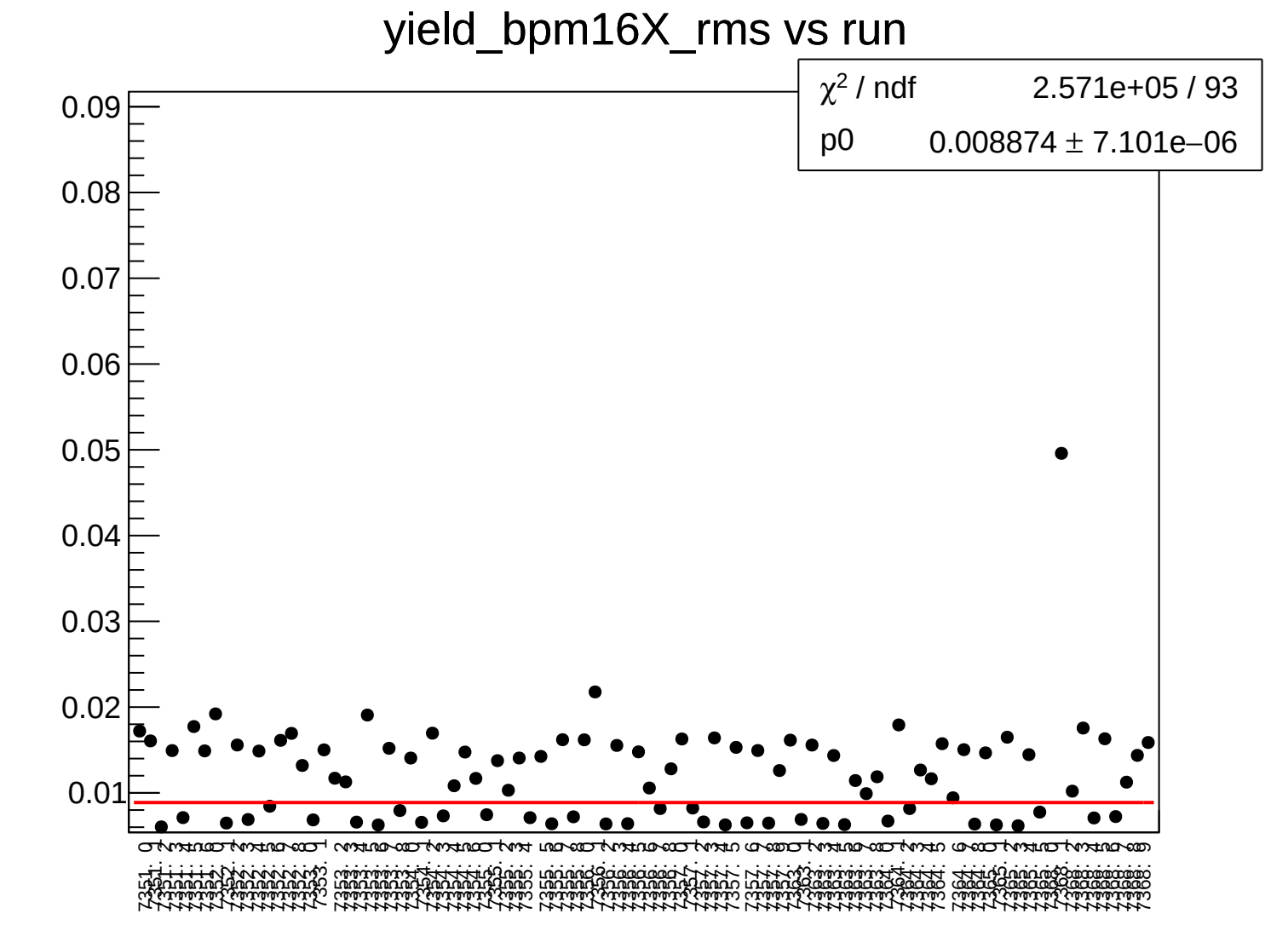

yield_bpm12X_rms vs run
χ² / ndf 1.138e+05 / 93
p0 0.03774 ± 2.89e−05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

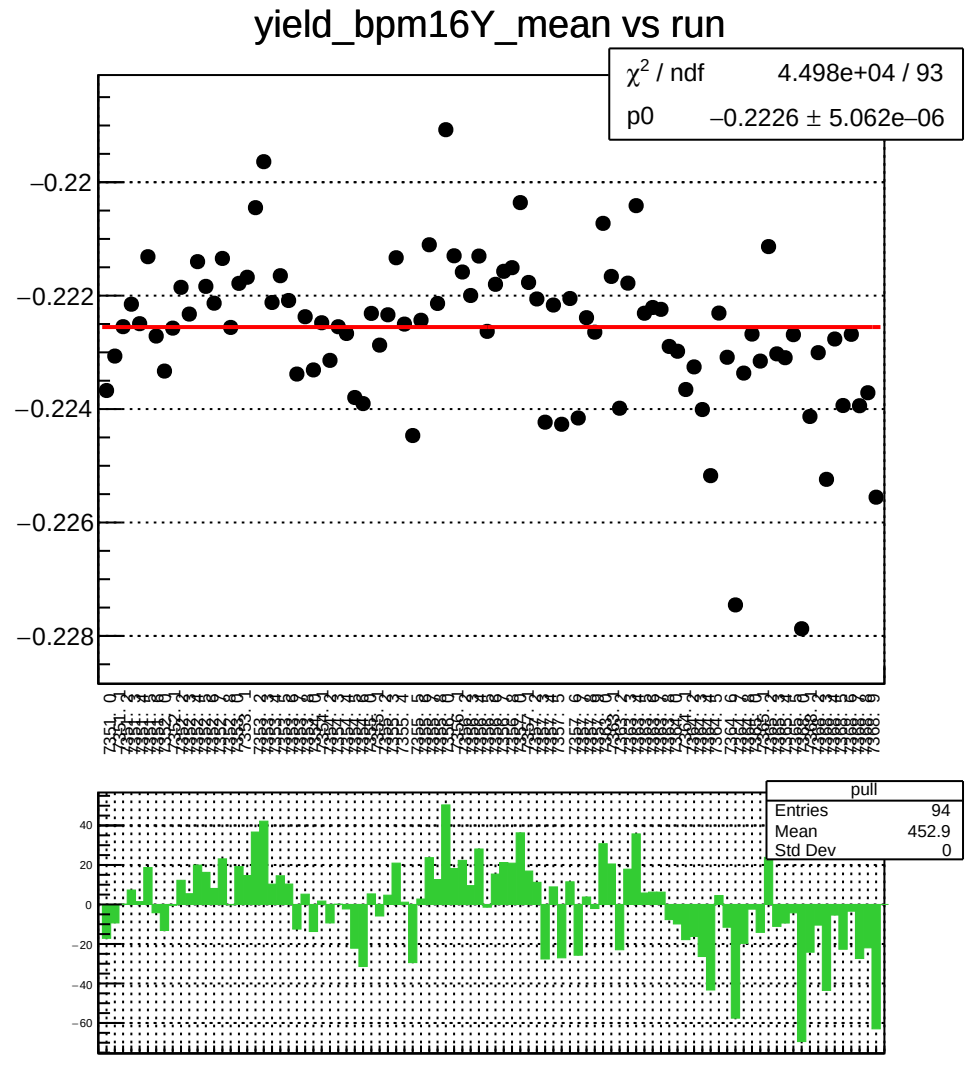

yield_bpm12Y_mean vs run
χ² / ndf 9.043e+06 / 93
p0 0.6492 ± 9.108e−06
0.7
0.69
0.68
0.67
0.66
0.65
0.64
0.63
0.62
pull
Entries 94
Mean −5.22e+04
Std Dev 0
600
400
200
0
−200
−400
pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

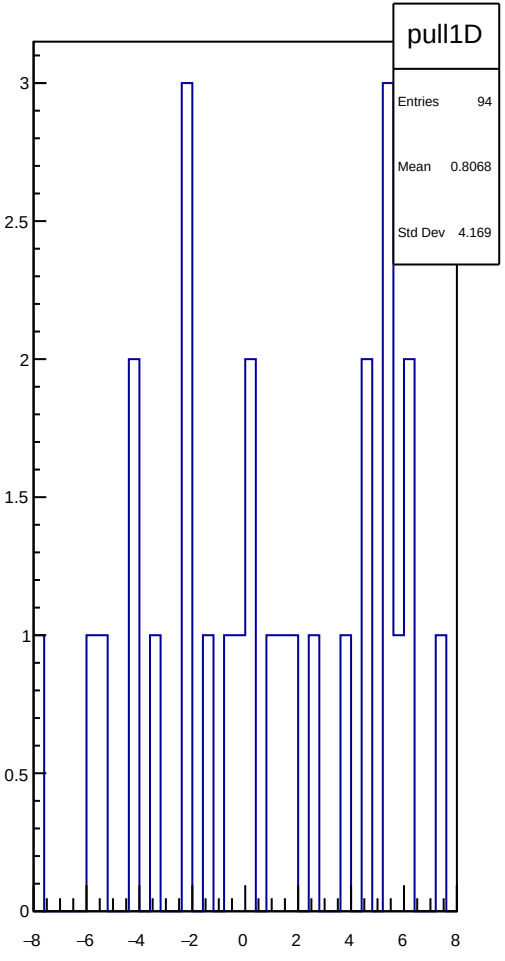

yield_bpm12Y_rms vs run
χ² / ndf 3.898e+04 / 93
p0 0.008592 ± 6.441e−06
0.03
0.025
0.02
0.015
0.01
0.005

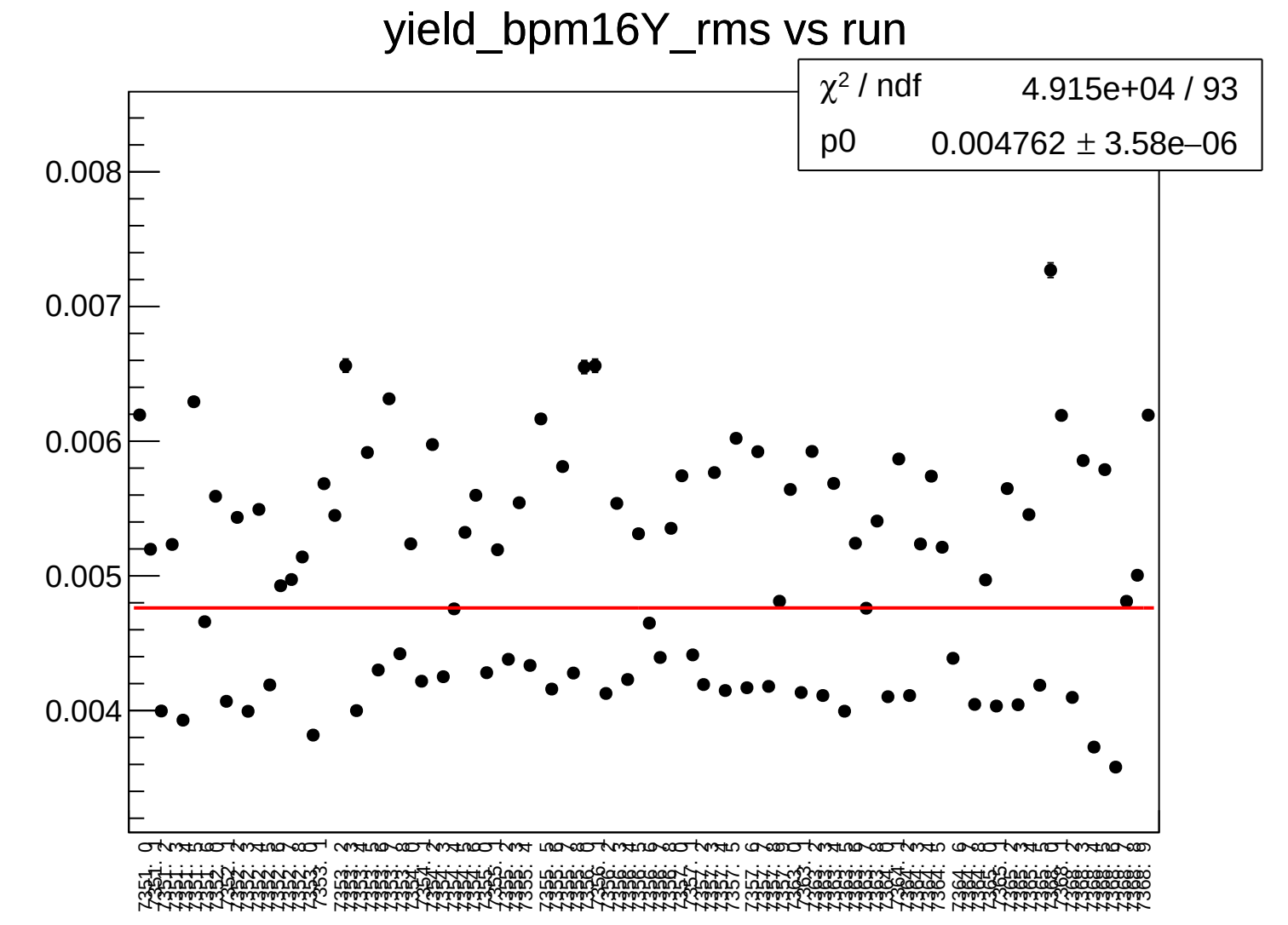

yield_bpm16X_mean vs run
χ² / ndf 4.089e+04 / 93
p0 −0.196 ± 1.004e−05
−0.18
−0.2
−0.22
−0.24
−0.26
−0.28
pull
Entries 94
Mean −57.83
Std Dev 0
40
20
0
−20
−40
−60
−80

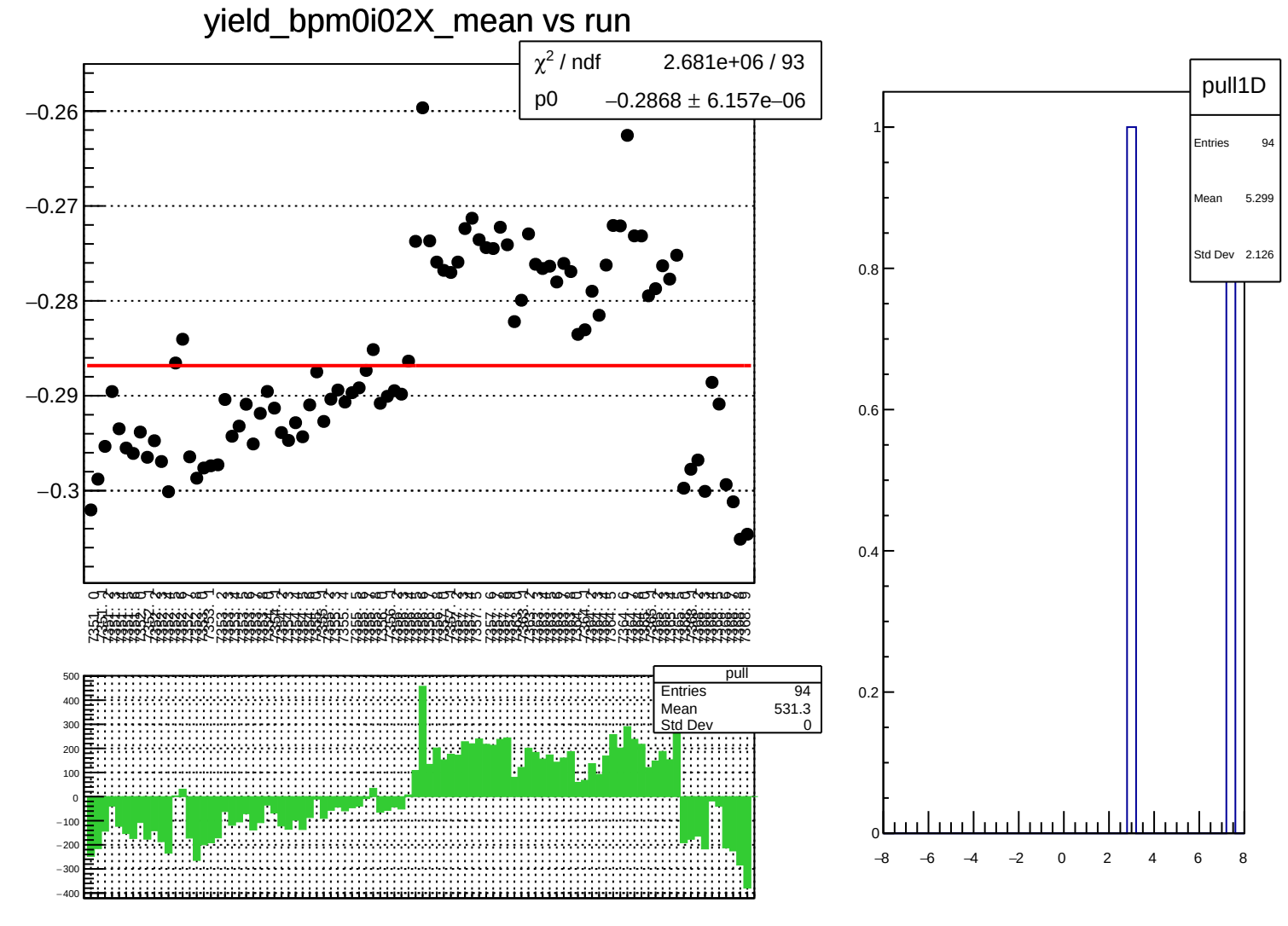

pull1D
Entries 94
Mean −1.983
Std Dev 4.469
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

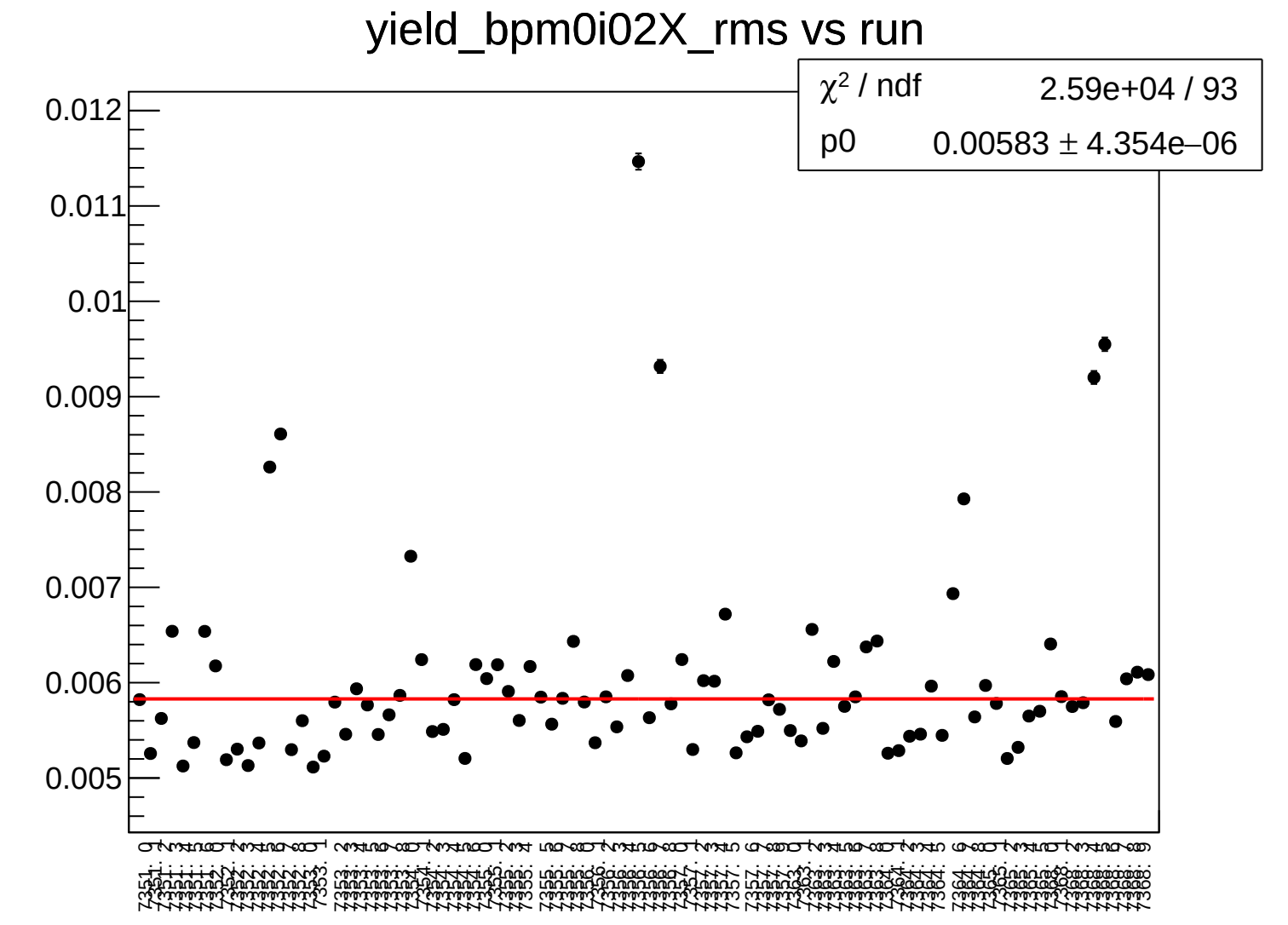

yield_bpm16X_rms vs run
χ² / ndf 2.571e+05 / 93
p0 0.008874 ± 7.101e−06
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

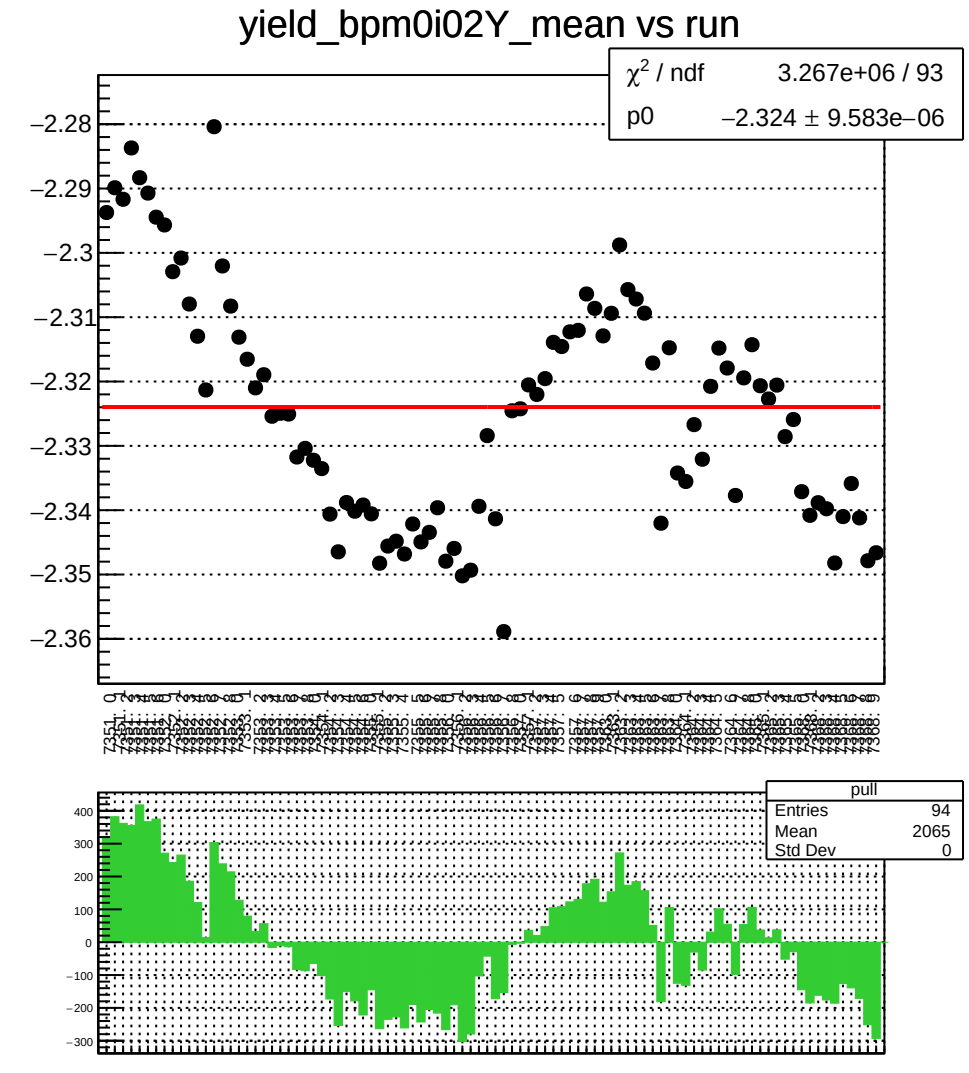

yield_bpm16Y_mean vs run
χ² / ndf 4.498e+04 / 93
p0 −0.2226 ± 5.062e−06
−0.22
−0.222
−0.224
−0.226
−0.228
pull
Entries 94
Mean 452.9
Std Dev 0
40
20
0
−20
−40
−60

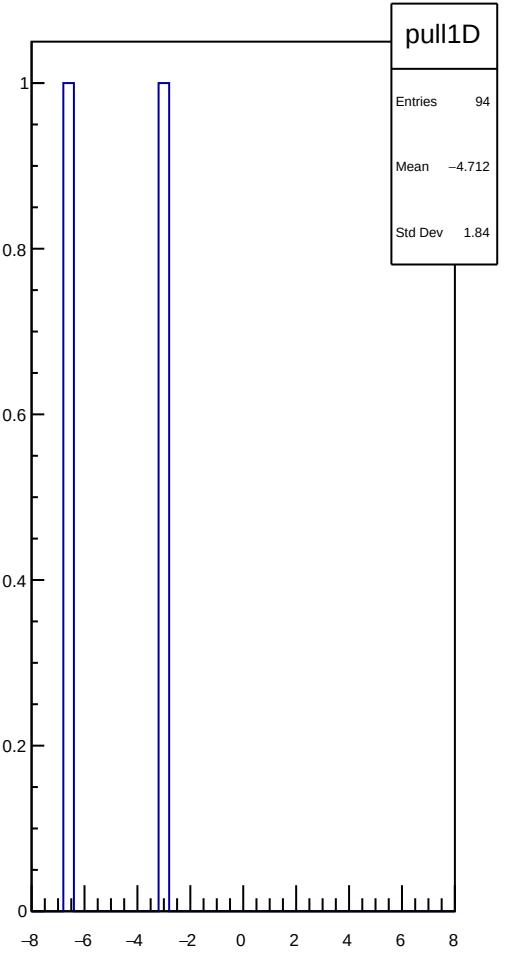

pull1D
Entries 94
Mean 0.8068
Std Dev 4.169
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

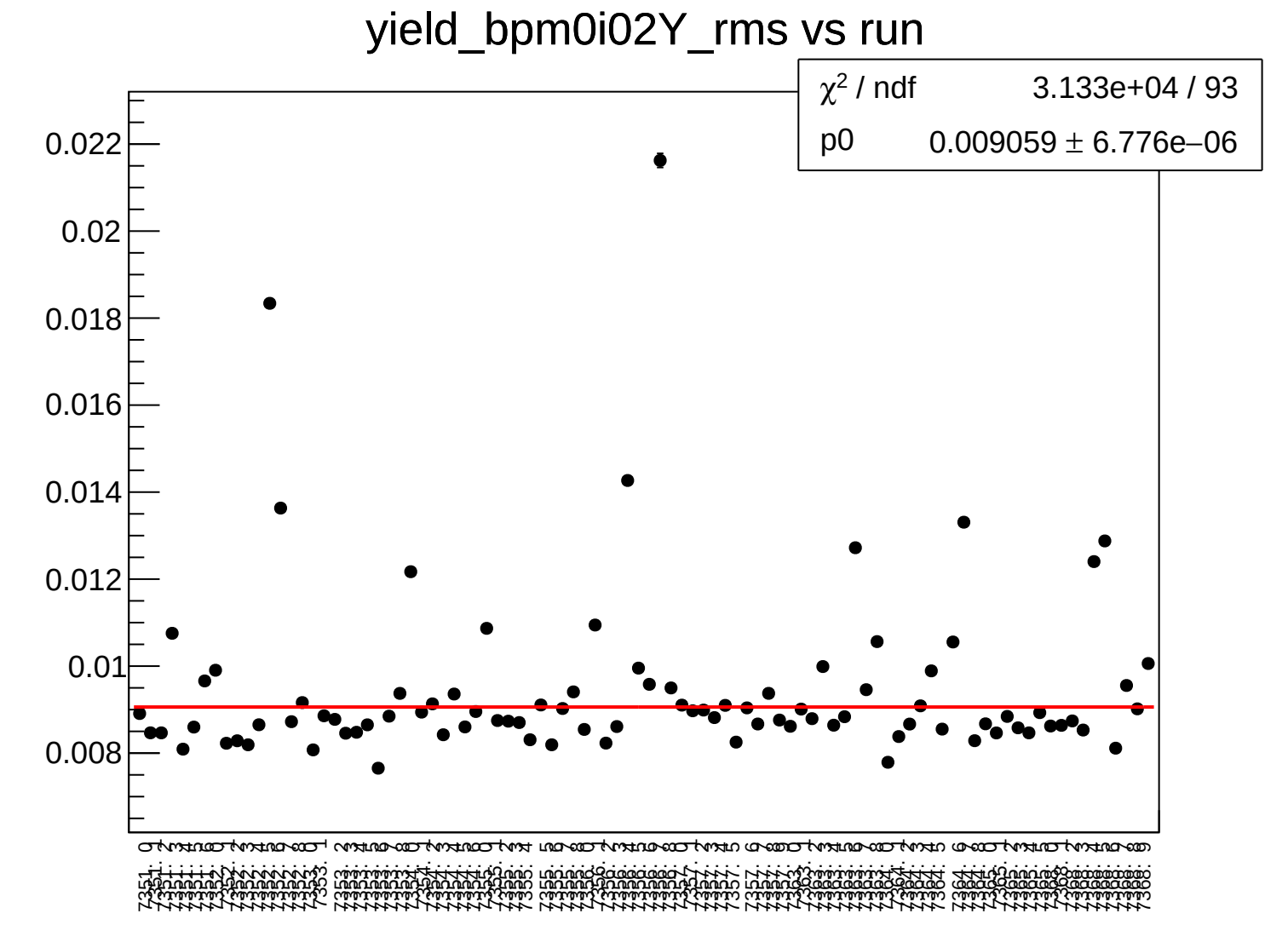

yield_bpm16Y_rms vs run
χ² / ndf 4.915e+04 / 93
p0 0.004762 ± 3.58e−06
0.008
0.007
0.006
0.005
0.004

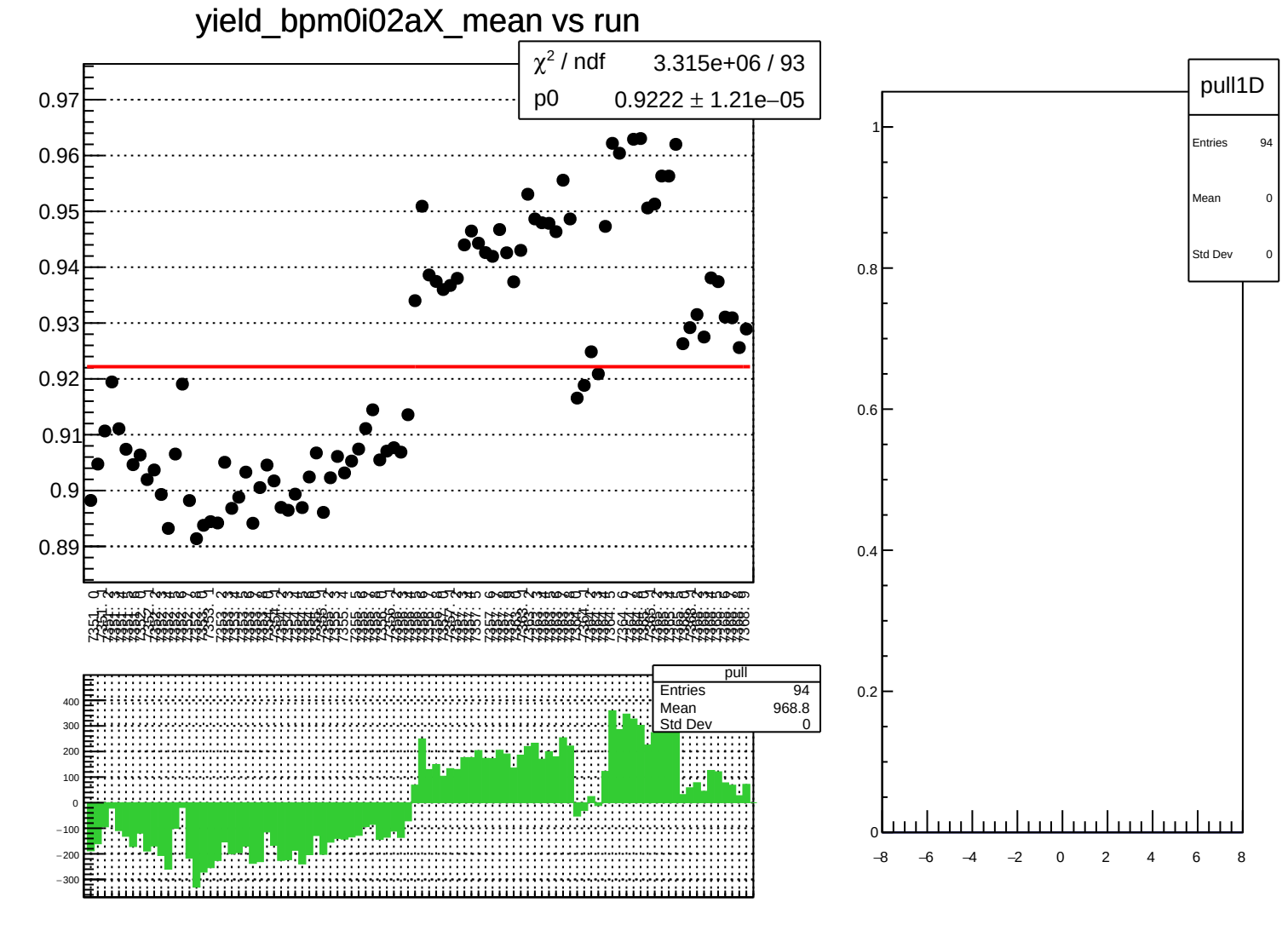

yield_bpm0i02X_mean vs run
χ² / ndf 2.681e+06 / 93
p0 −0.2868 ± 6.157e−06
−0.26
−0.27
−0.28
−0.29
−0.3
pull
Entries 94
Mean 531.3
Std Dev 0
500
400
300
200
100
0
−100
−200
−300
−400
pull1D
Entries 94
Mean 5.299
Std Dev 2.126
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

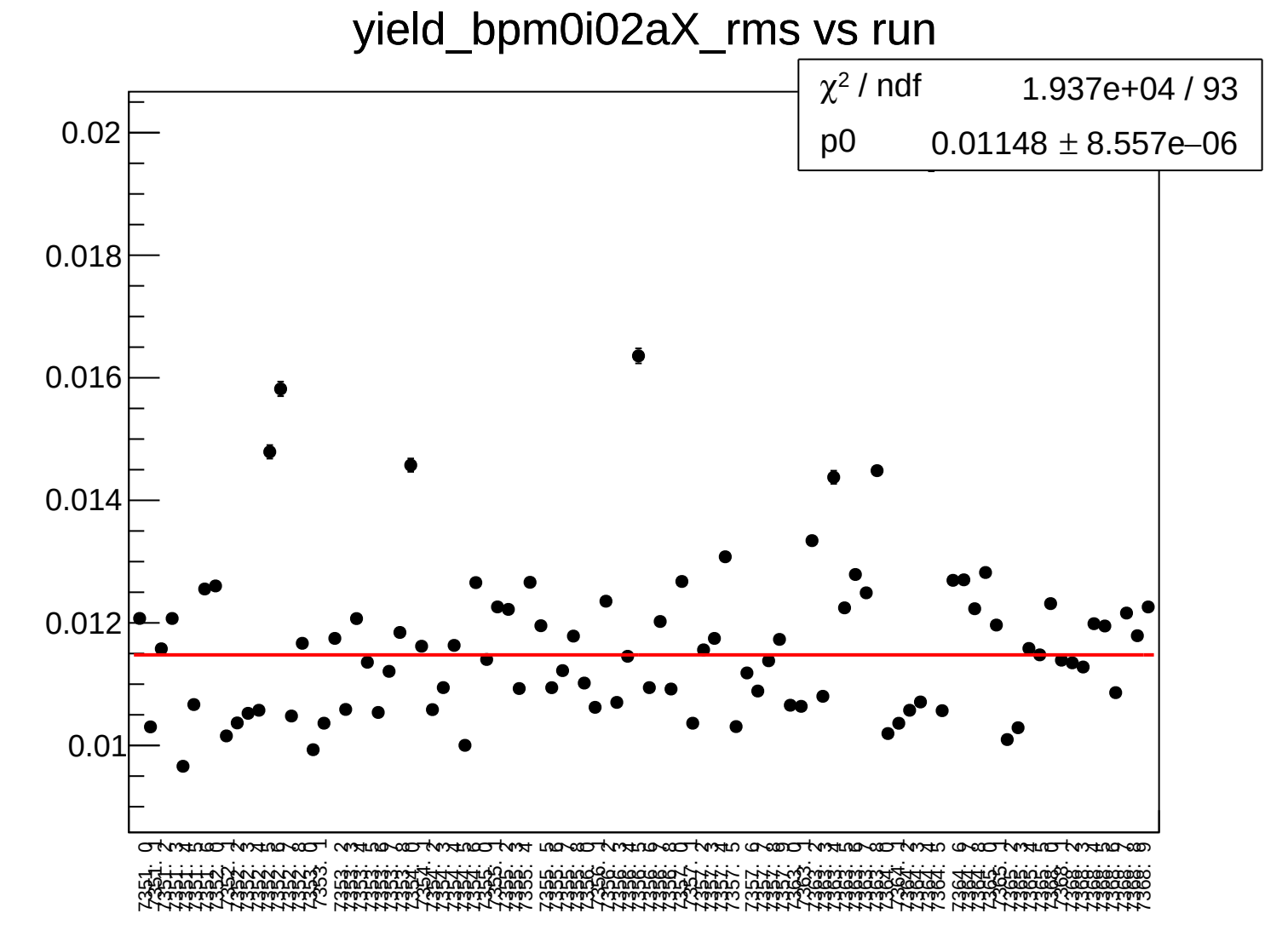

yield_bpm0i02X_rms vs run
χ² / ndf 2.59e+04 / 93
p0 0.00583 ± 4.354e–06
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005

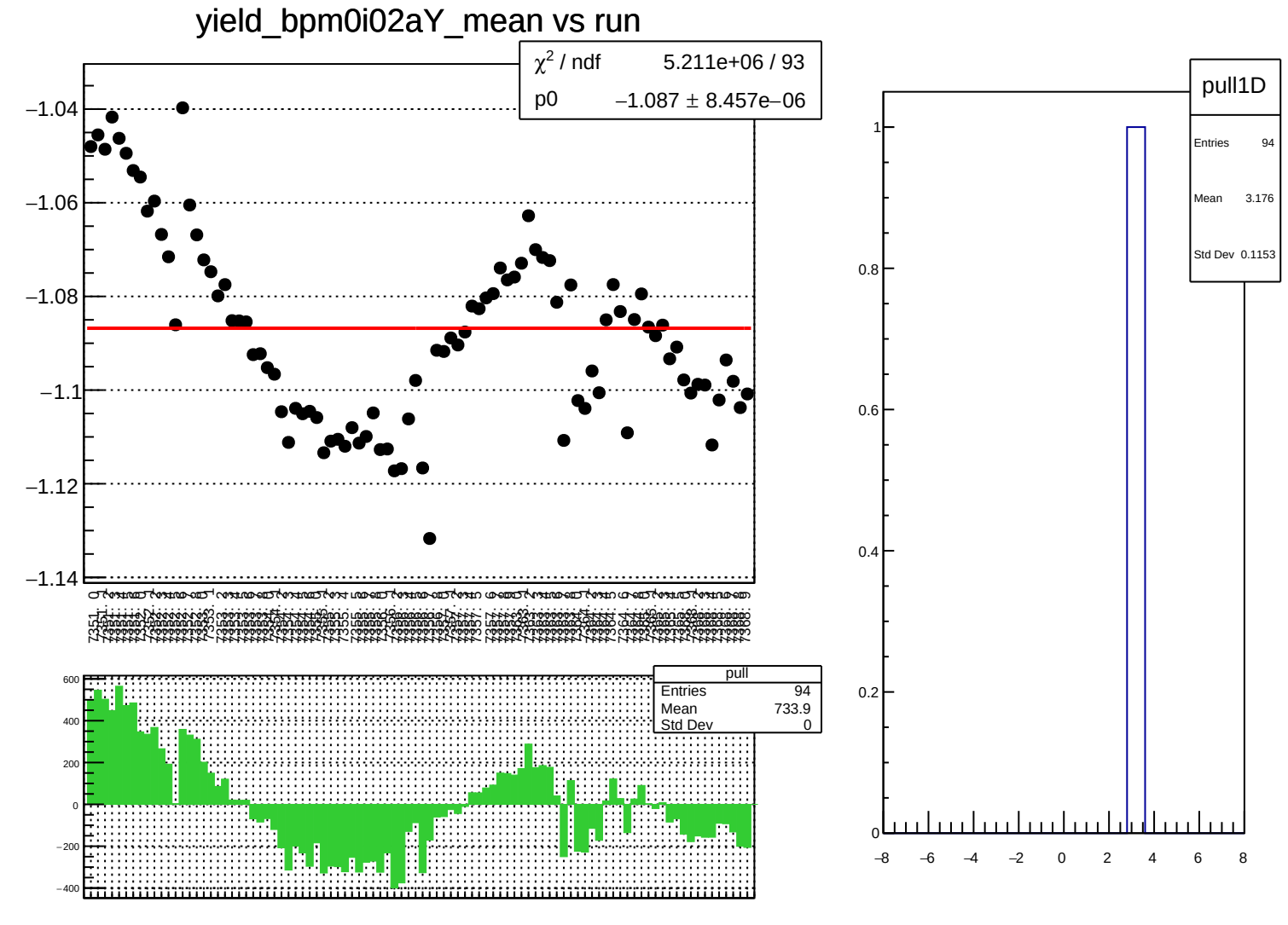

yield_bpm0i02Y_mean vs run
χ² / ndf 3.267e+06 / 93
p0 −2.324 ± 9.583e−06
−2.28
−2.29
−2.3
−2.31
−2.32
−2.33
−2.34
−2.35
−2.36
pull
Entries 94
Mean 2065
Std Dev 0
400
300
200
100
0
−100
−200
−300

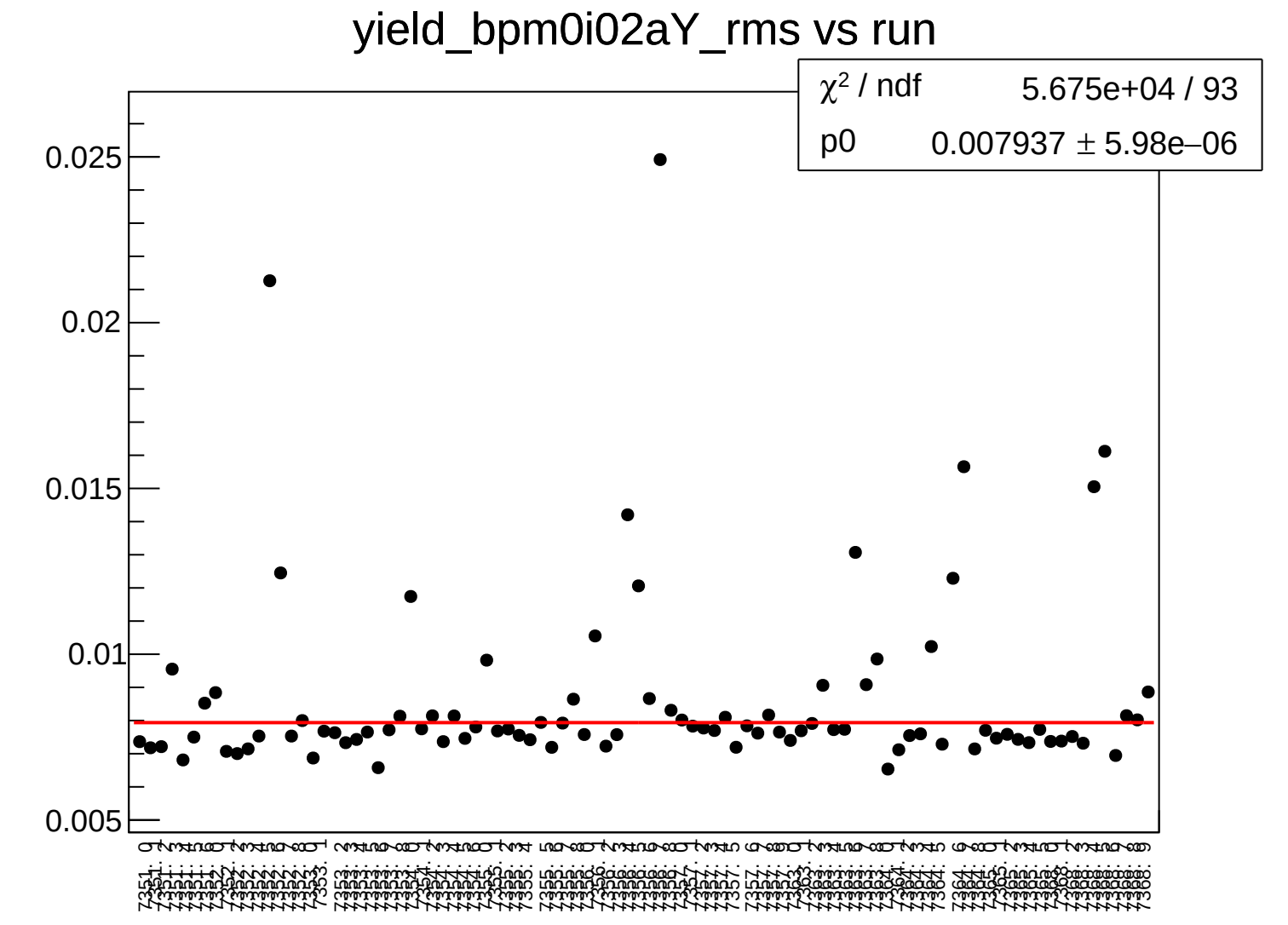

pull1D
Entries 94
Mean −4.712
Std Dev 1.84
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

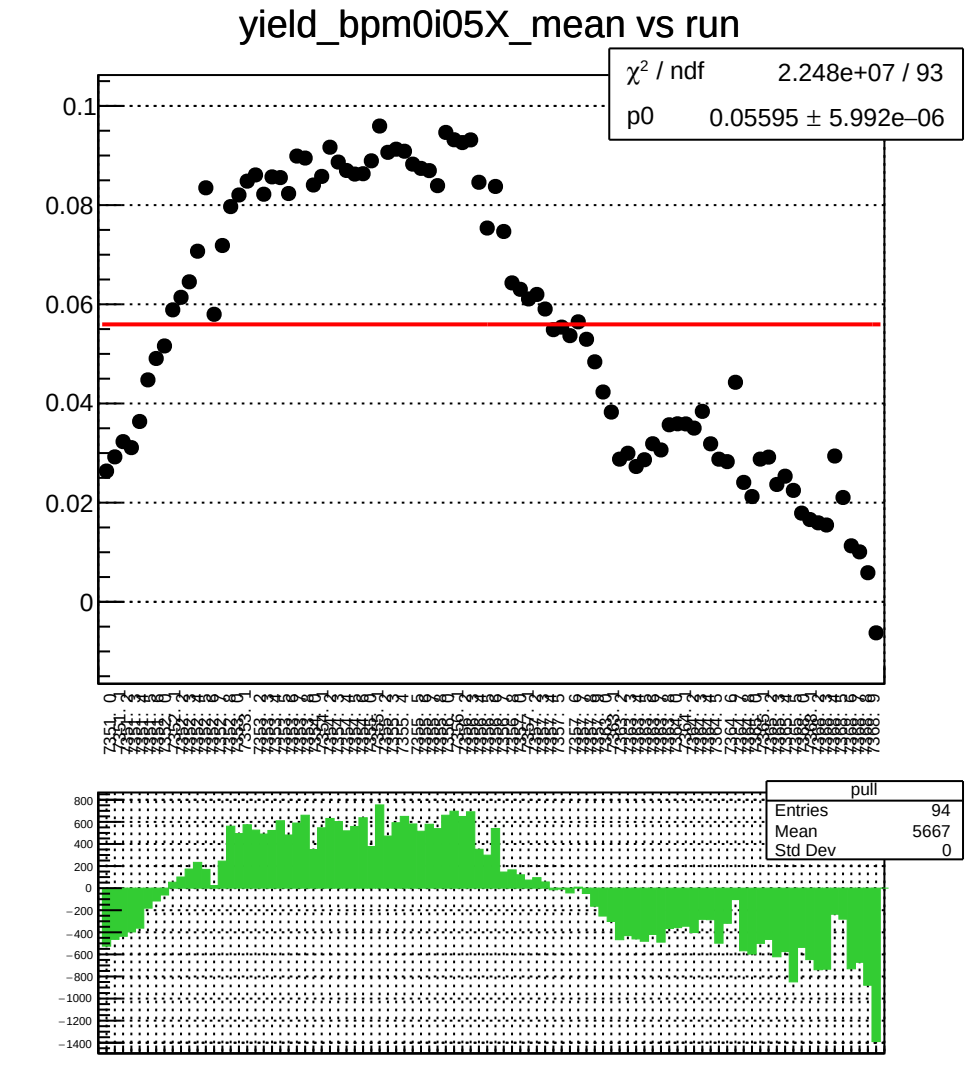

yield_bpm0i02Y_rms vs run
χ^2 / ndf 3.133e+04 / 93
p0 0.009059 ± 6.776e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008

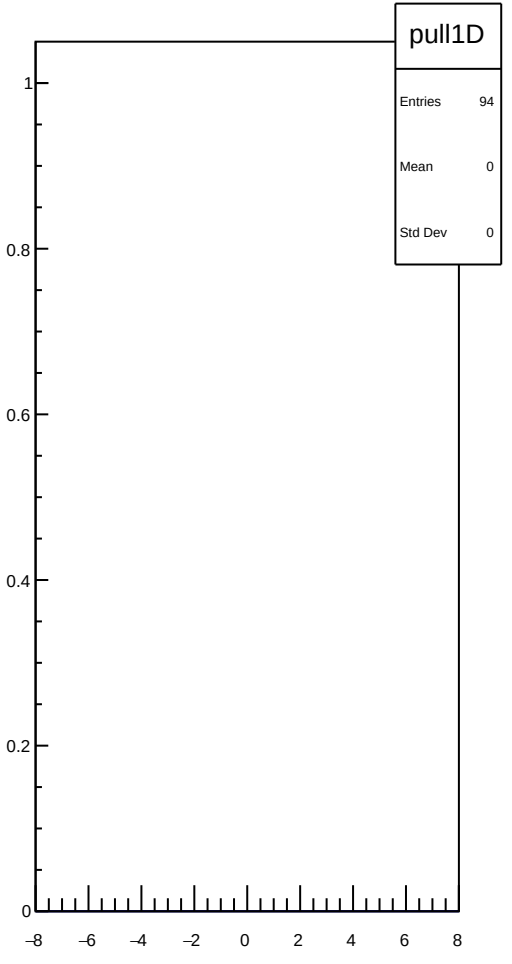

yield_bpm0i02aX_mean vs run
χ² / ndf 3.315e+06 / 93
p0 0.9222 ± 1.21e−05
0.97
0.96
0.95
0.94
0.93
0.92
0.91
0.9
0.89
pull
Entries 94
Mean 968.8
Std Dev 0
400
300
200
100
0
−100
−200
−300
pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

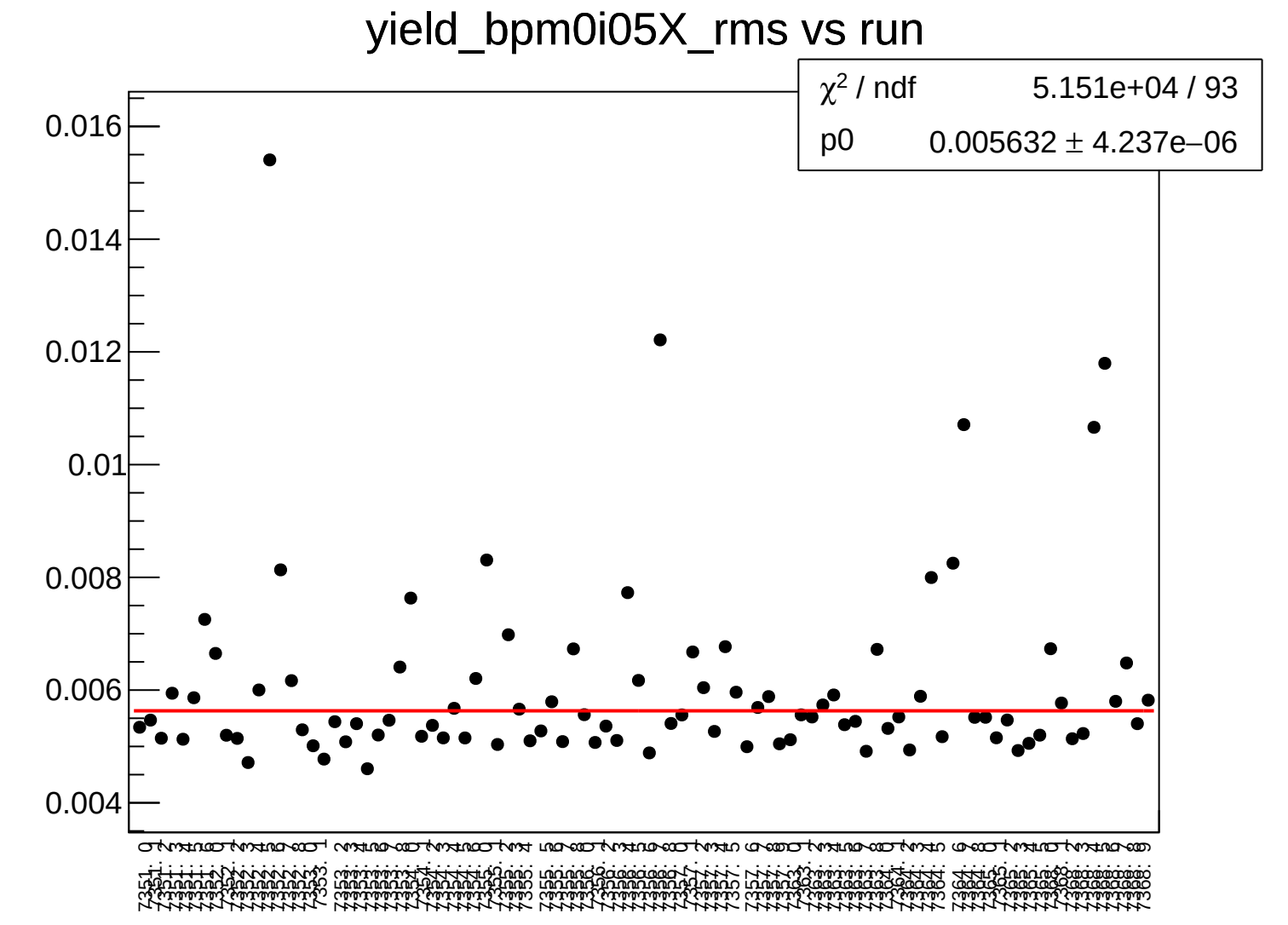

yield_bpm0i02aX_rms vs run
χ² / ndf 1.937e+04 / 93
p0 0.01148 ± 8.557e–06
0.02
0.018
0.016
0.014
0.012
0.01

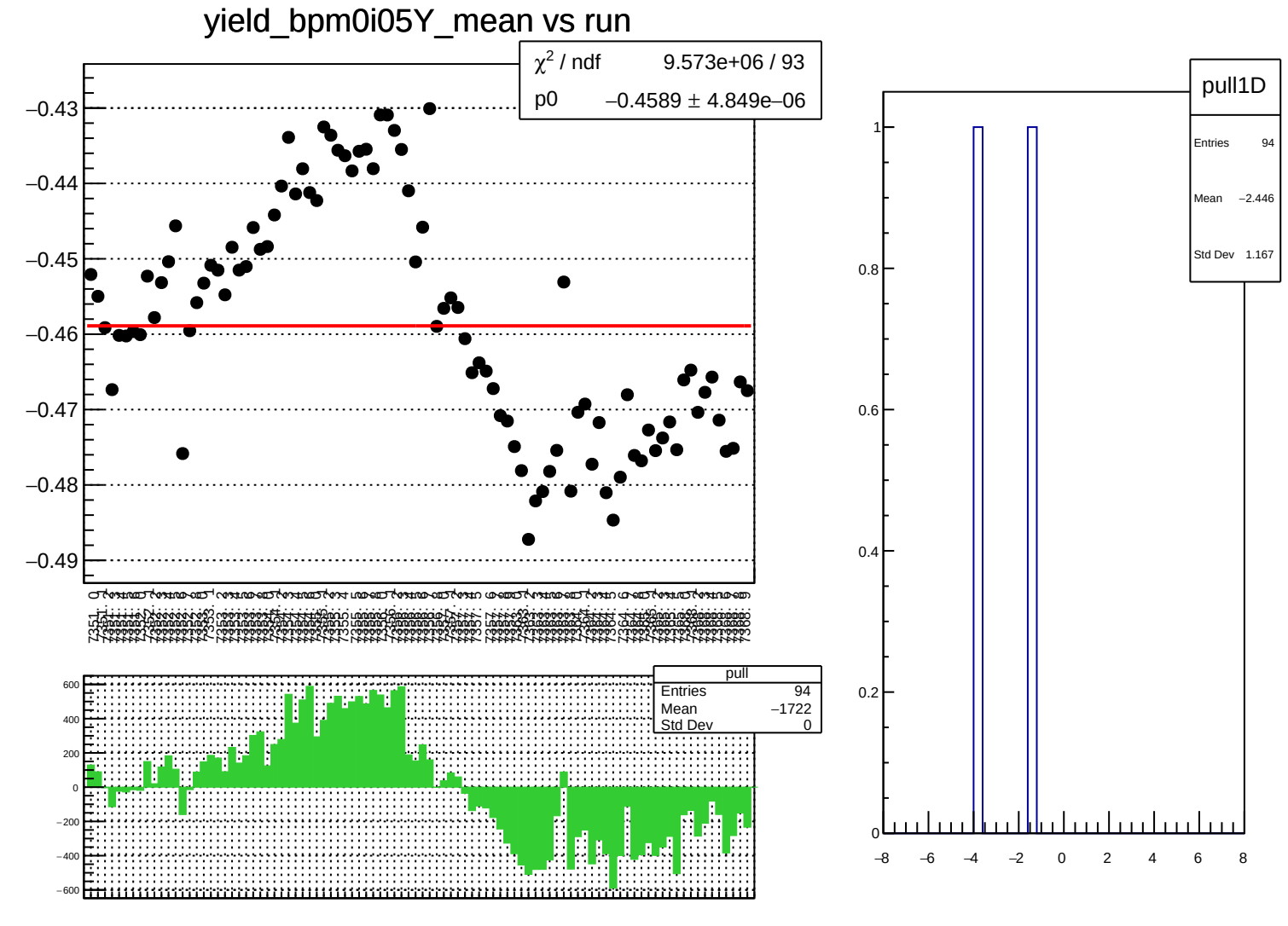

yield_bpm0i02aY_mean vs run
χ² / ndf 5.211e+06 / 93
p0 −1.087 ± 8.457e−06
−1.04
−1.06
−1.08
−1.1
−1.12
−1.14
pull
Entries 94
Mean 733.9
Std Dev 0
600
400
200
0
−200
−400
pull1D
Entries 94
Mean 3.176
Std Dev 0.1153
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

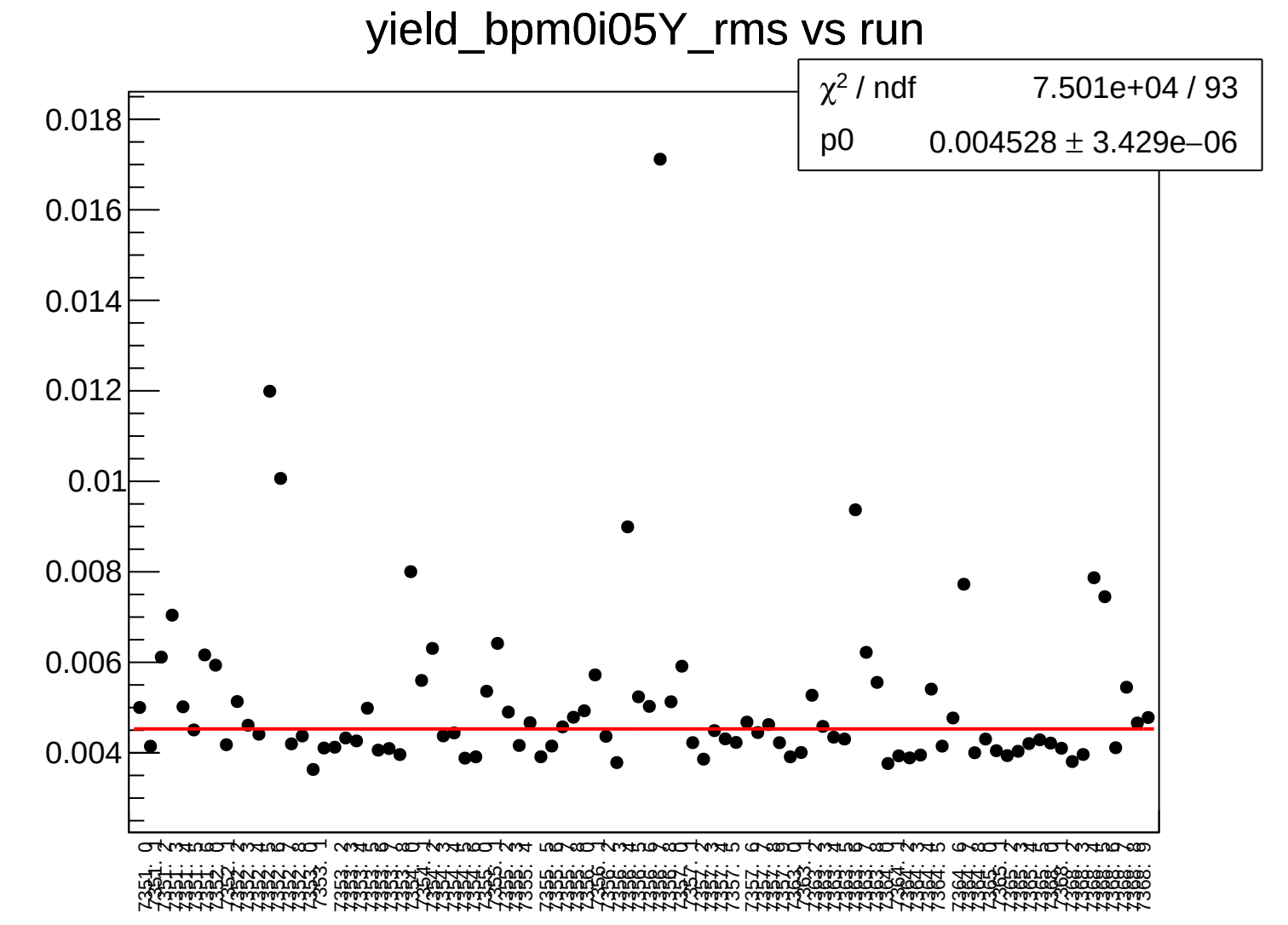

yield_bpm0i02aY_rms vs run
χ² / ndf 5.675e+04 / 93
p0 0.007937 ± 5.98e–06
0.025
0.02
0.015
0.01
0.005

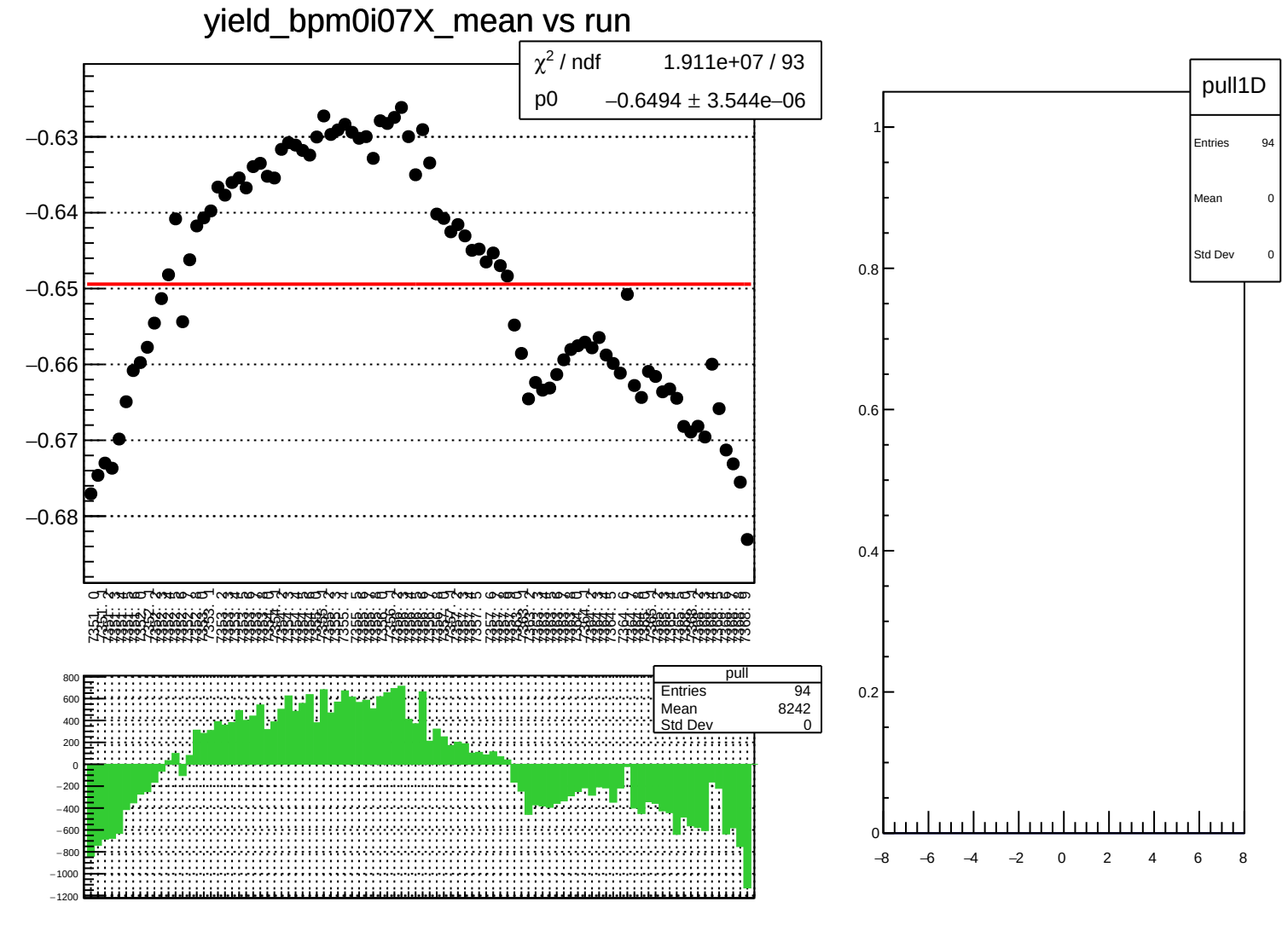

yield_bpm0i05X_mean vs run
χ² / ndf 2.248e+07 / 93
p0 0.05595 ± 5.992e−06
0.1
0.08
0.06
0.04
0.02
0
pull
Entries 94
Mean 5667
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800
−1000
−1200
−1400

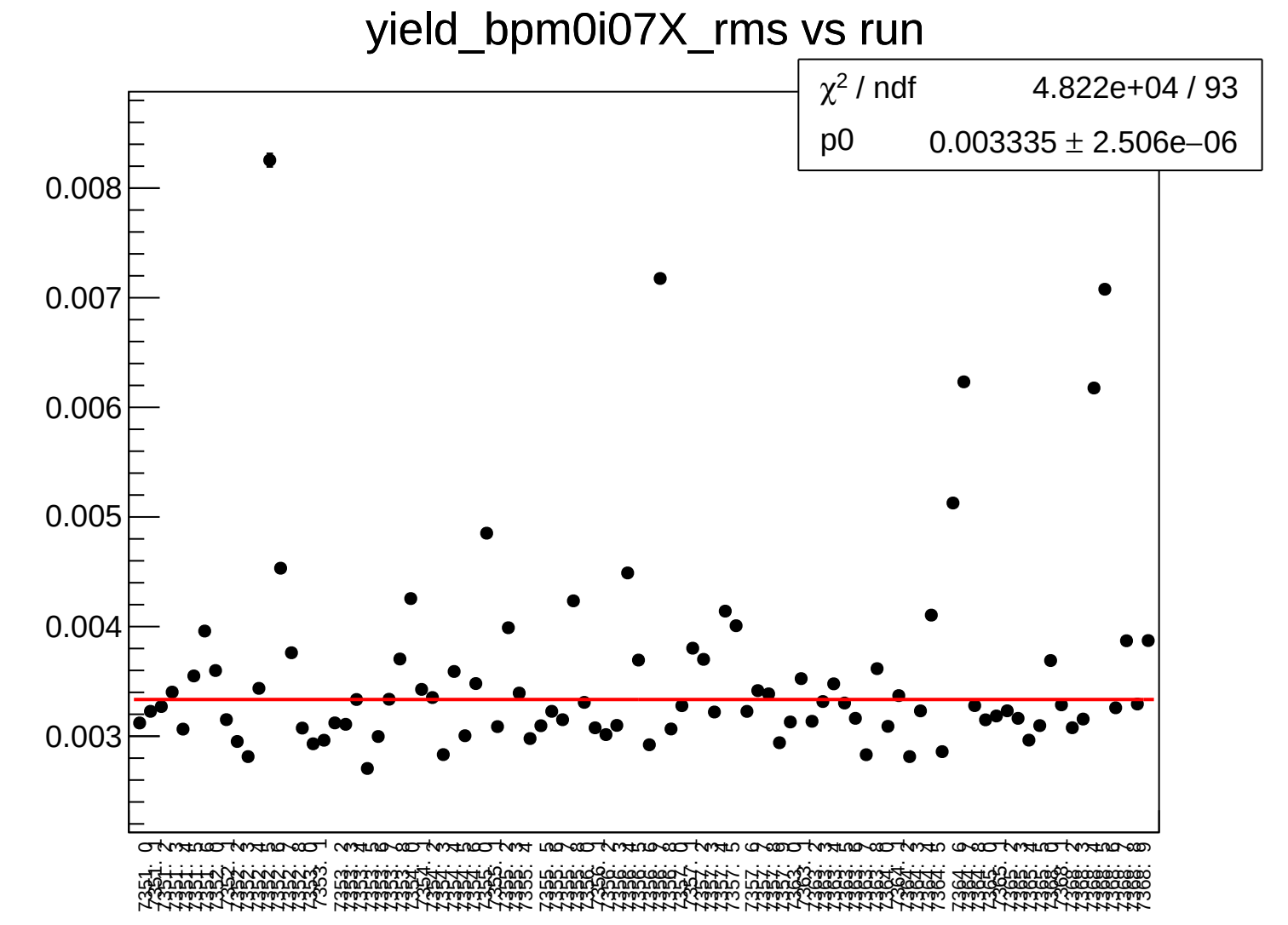

pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

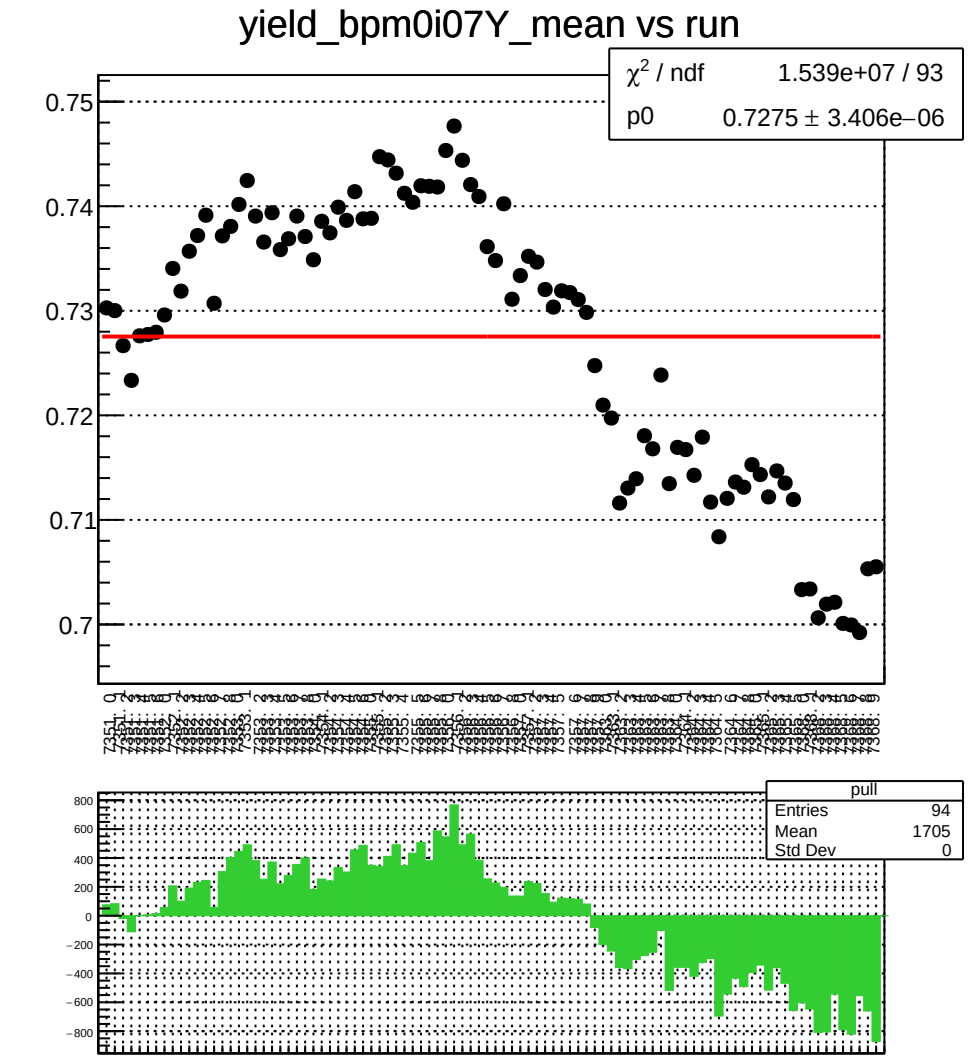

yield_bpm0i05X_rms vs run
χ^2 / ndf 5.151e+04 / 93
p0 0.005632 ± 4.237e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004

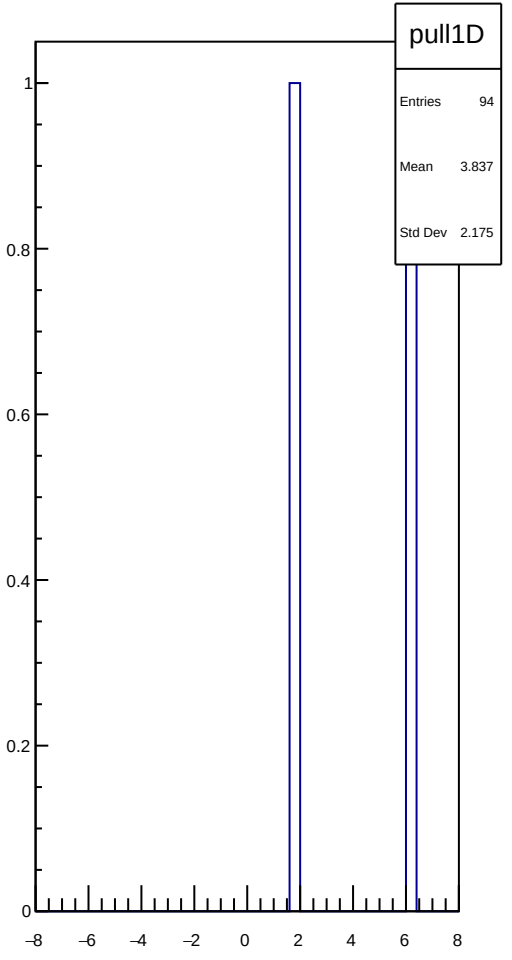

yield_bpm0i05Y_mean vs run
χ² / ndf 9.573e+06 / 93
p0 −0.4589 ± 4.849e−06
−0.43
−0.44
−0.45
−0.46
−0.47
−0.48
−0.49
pull
Entries 94
Mean −1722
Std Dev 0
600
400
200
0
−200
−400
−600
pull1D
Entries 94
Mean −2.446
Std Dev 1.167
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

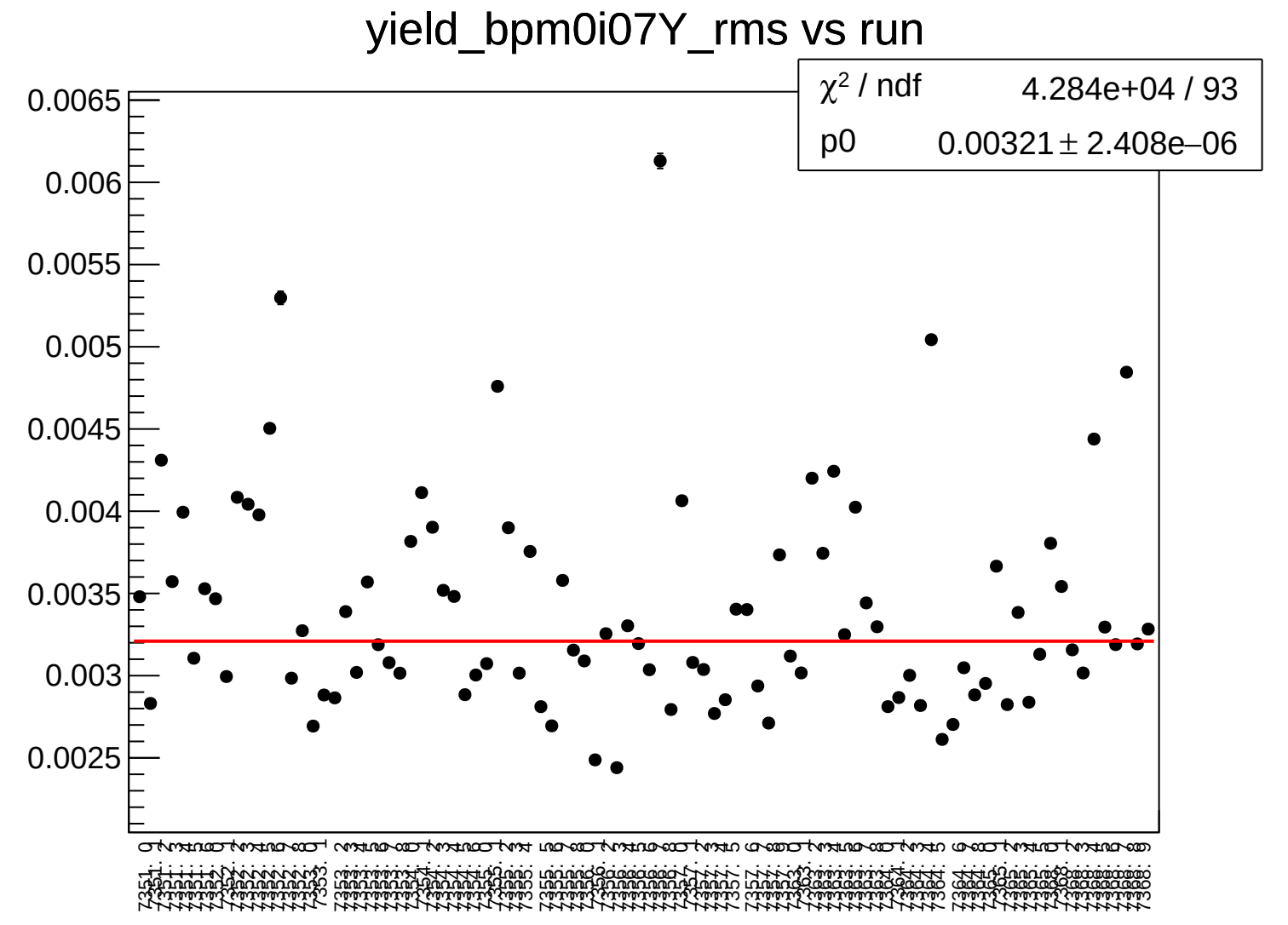

yield_bpm0i05Y_rms vs run
χ² / ndf 7.501e+04 / 93
p0 0.004528 ± 3.429e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

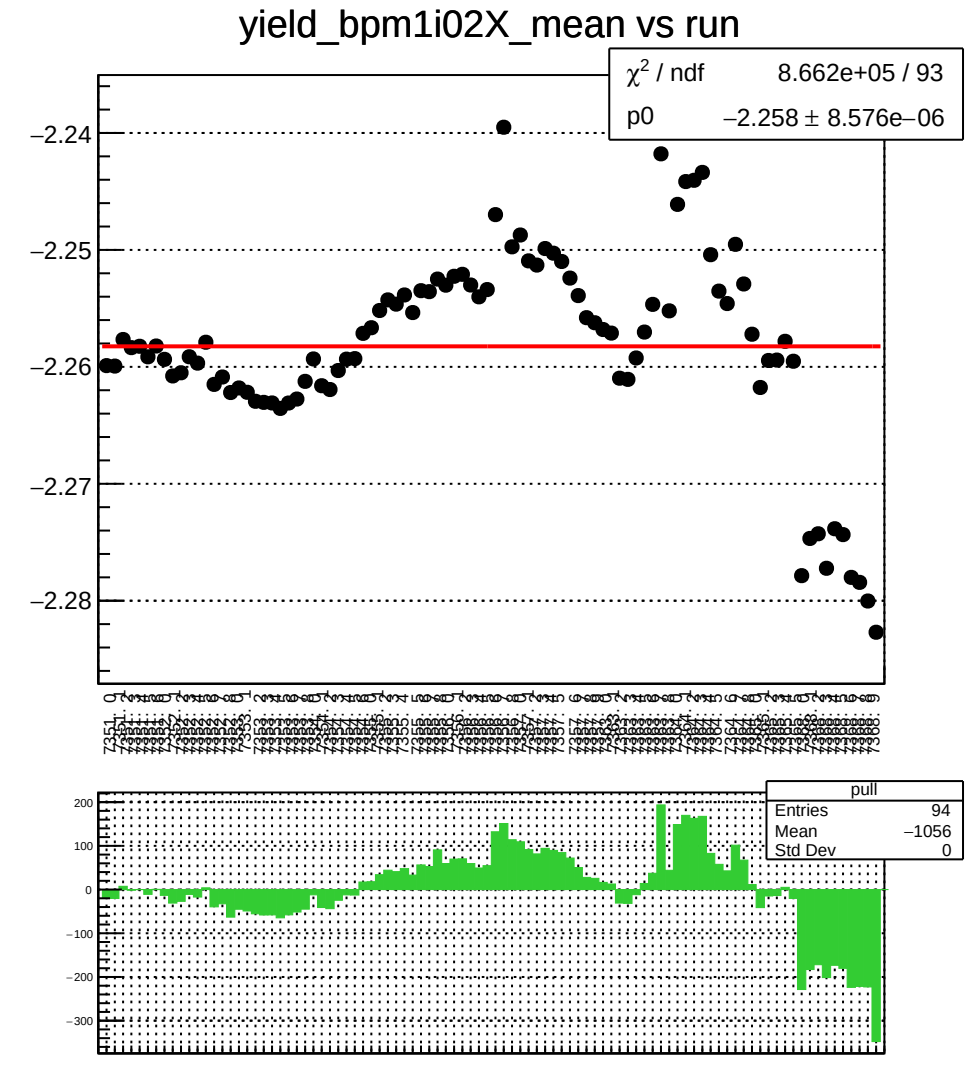

yield_bpm0i07X_mean vs run
χ² / ndf 1.911e+07 / 93
p0 −0.6494 ± 3.544e−06
−0.63
−0.64
−0.65
−0.66
−0.67
−0.68
pull
Entries 94
Mean 8242
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800
−1000
−1200
pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

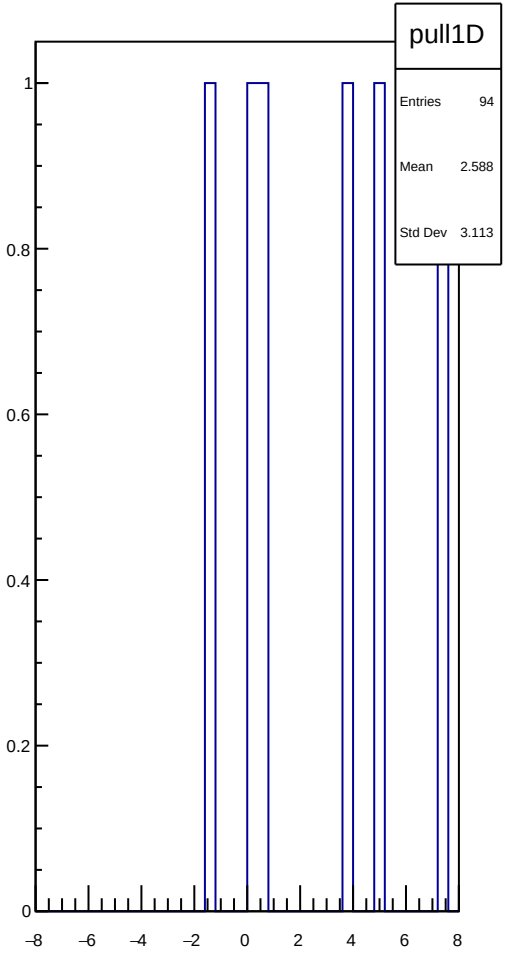

yield_bpm0i07X_rms vs run
χ² / ndf 4.822e+04 / 93
p0 0.003335 ± 2.506e−06
0.008
0.007
0.006
0.005
0.004
0.003

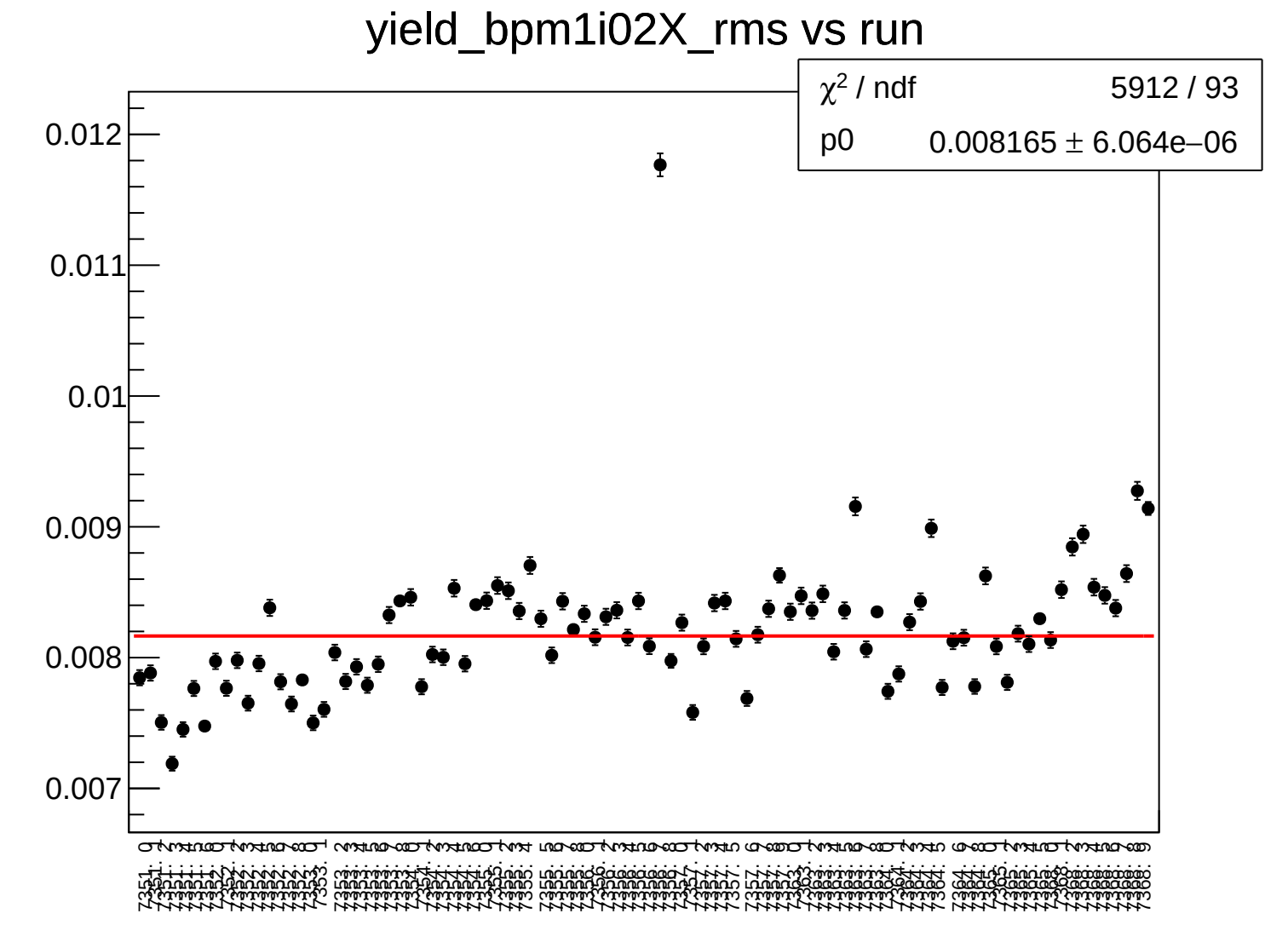

yield_bpm0i07Y_mean vs run
χ² / ndf 1.539e+07 / 93
p0 0.7275 ± 3.406e−06
0.75
0.74
0.73
0.72
0.71
0.7
pull
Entries 94
Mean 1705
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800

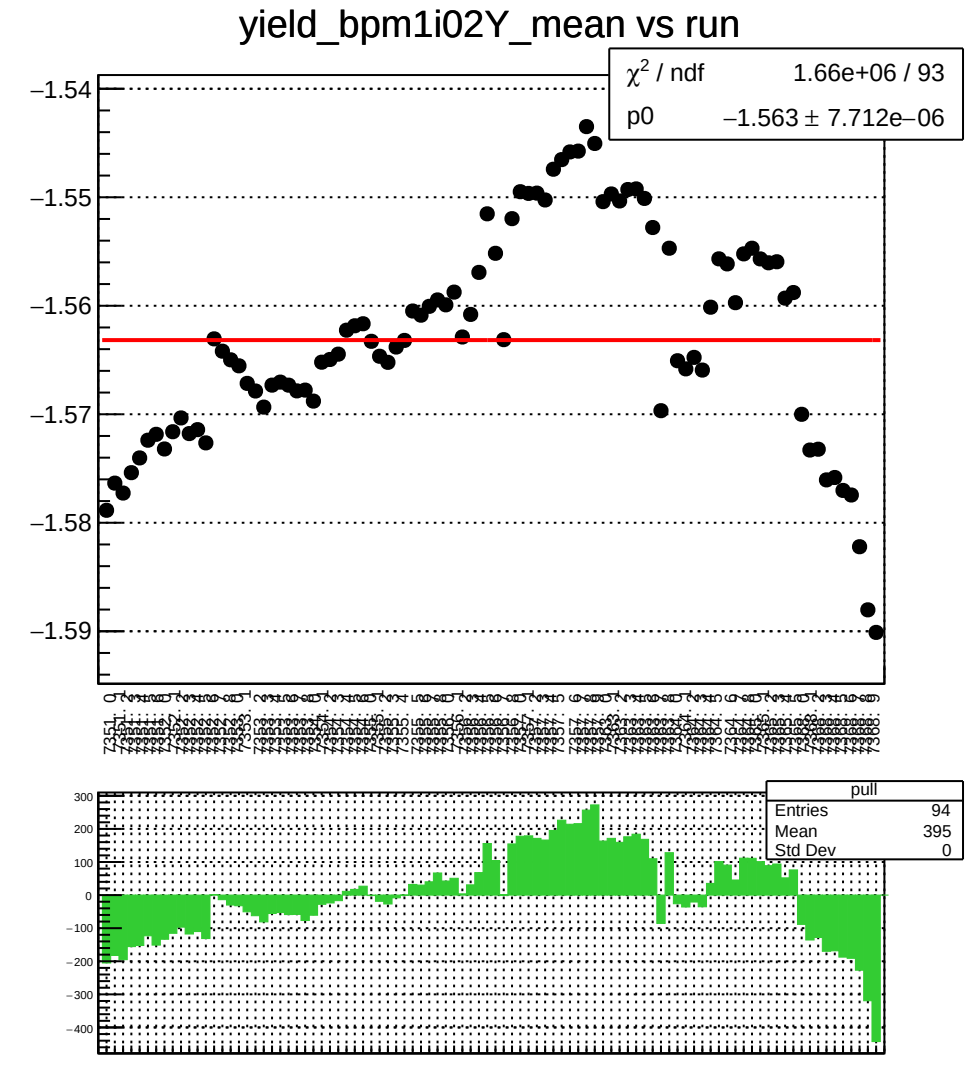

pull1D
Entries 94
Mean 3.837
Std Dev 2.175
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

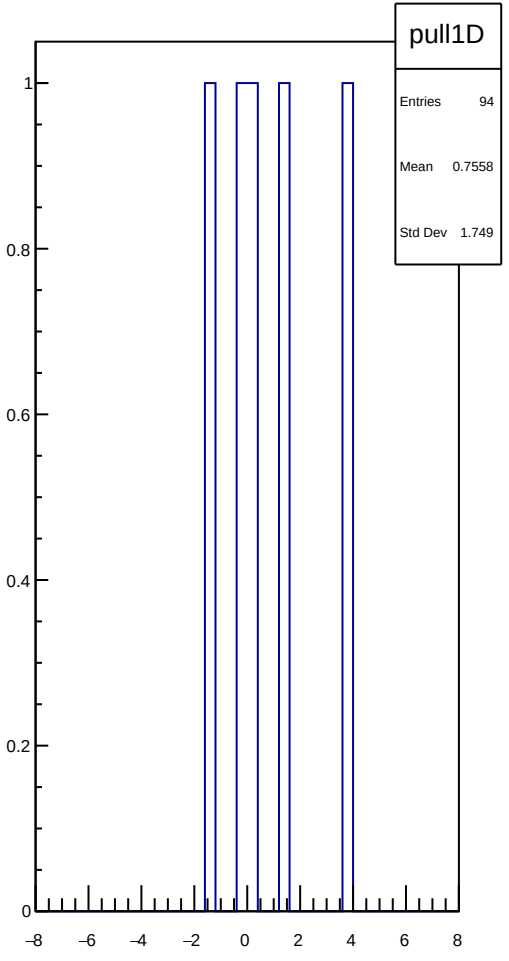

yield_bpm0i07Y_rms vs run
χ² / ndf 4.284e+04 / 93
p0 0.00321 ± 2.408e–06
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025

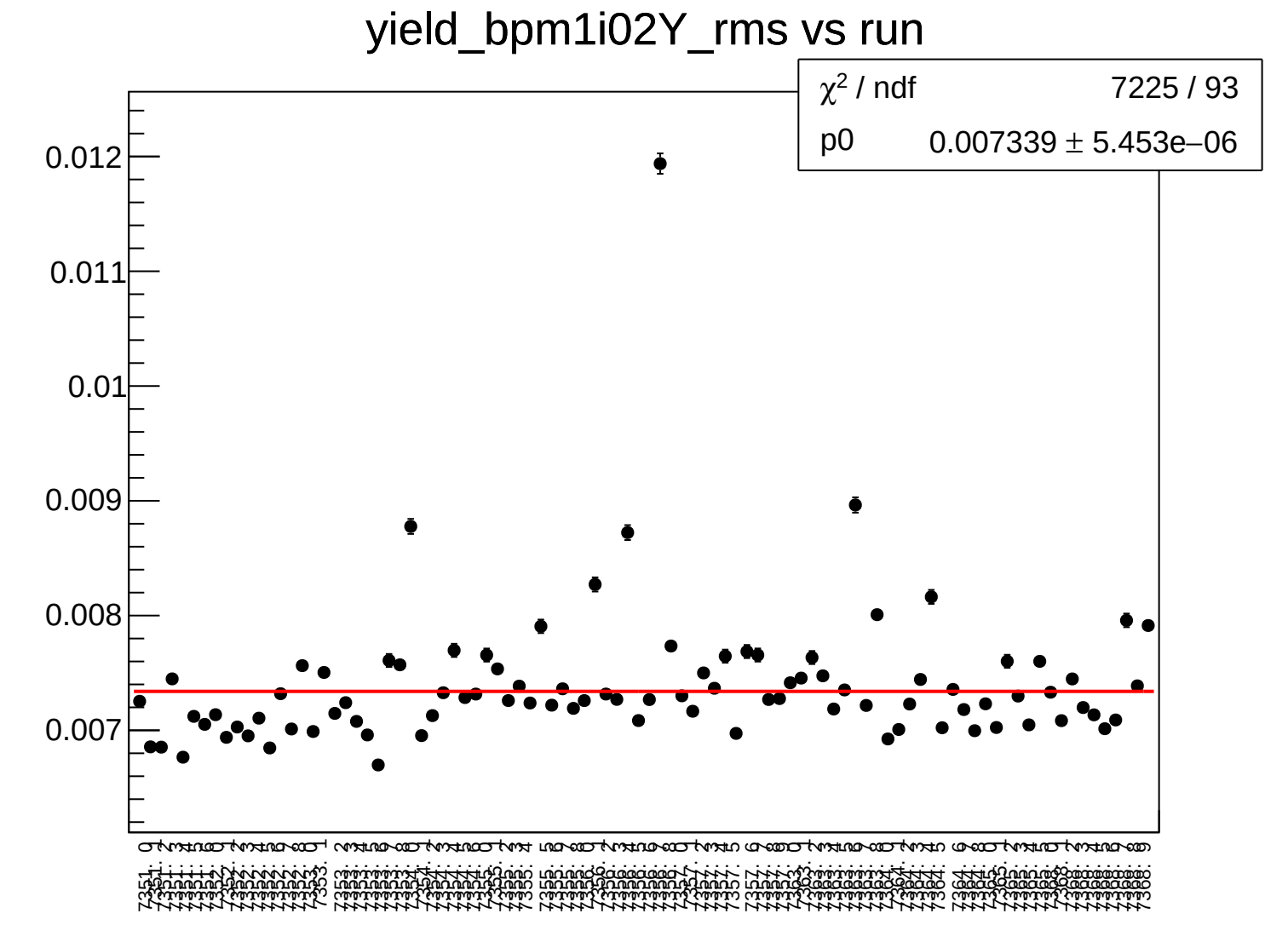

yield_bpm1i02X_mean vs run
χ² / ndf 8.662e+05 / 93
p0 −2.258 ± 8.576e−06
−2.24
−2.25
−2.26
−2.27
−2.28
pull
Entries 94
Mean −1056
Std Dev 0
200
100
0
−100
−200
−300

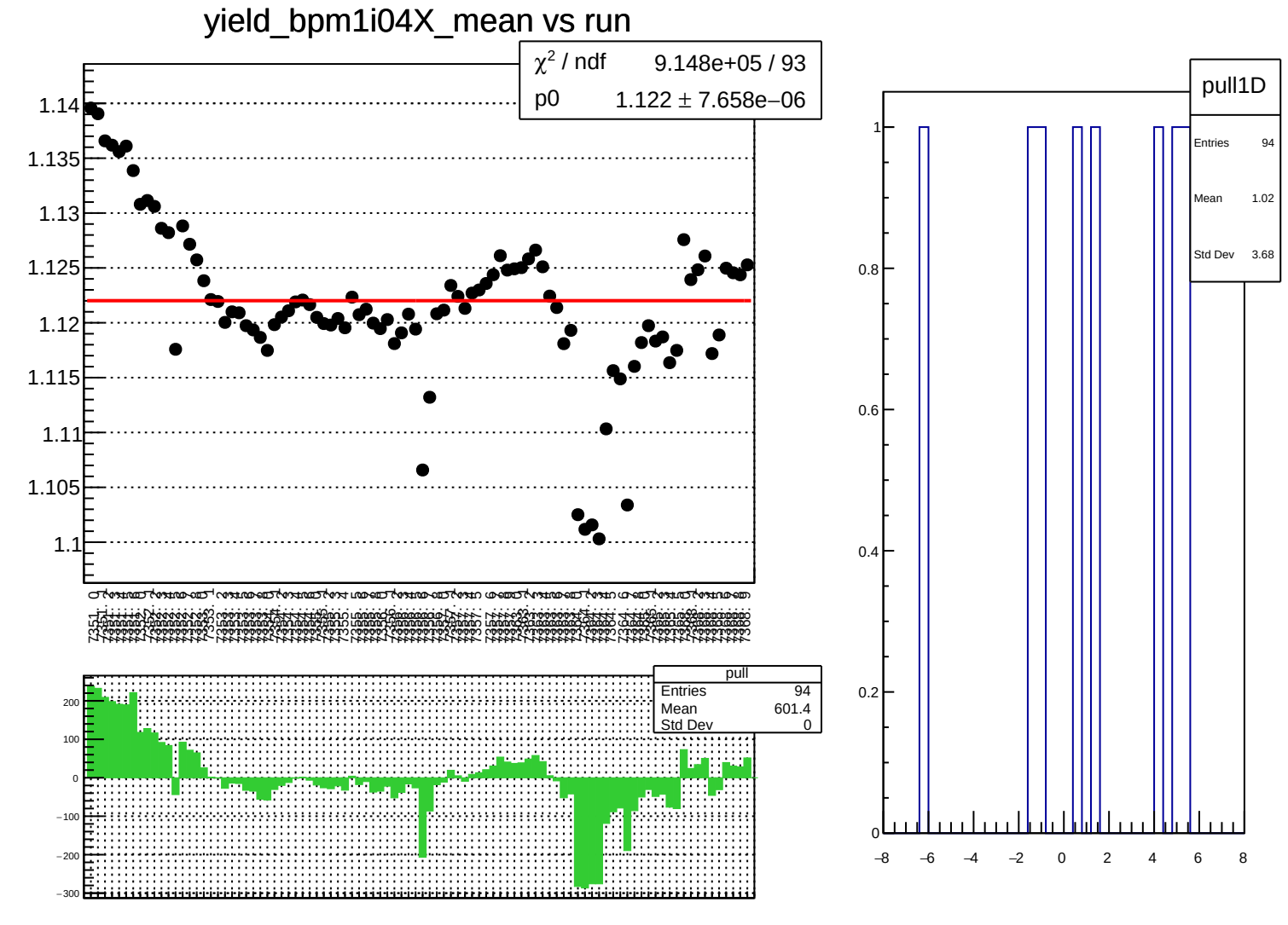

pull1D
Entries 94
Mean 2.588
Std Dev 3.113
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

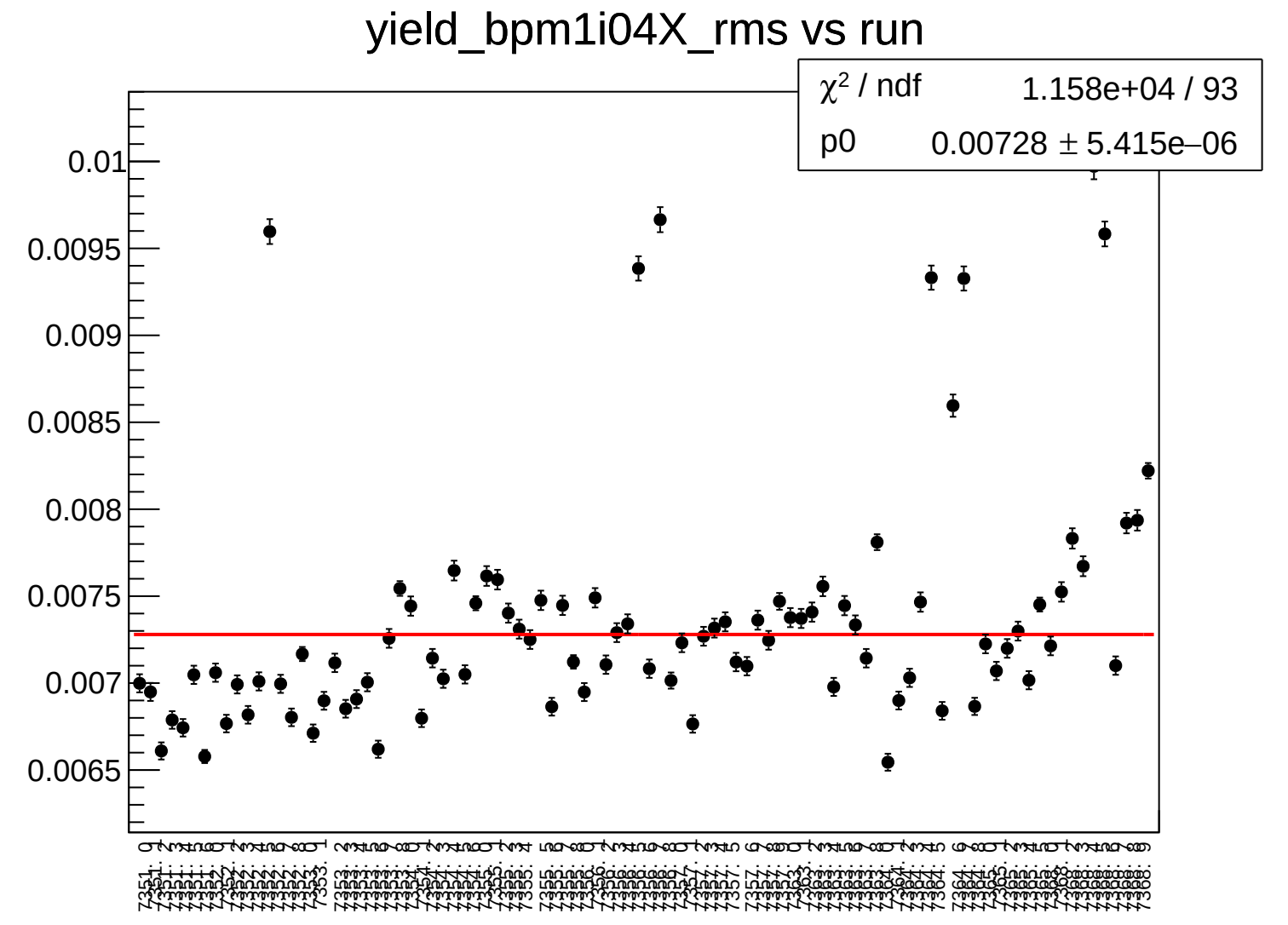

yield_bpm1i02X_rms vs run
χ² / ndf 5912 / 93
p0 0.008165 ± 6.064e−06
0.012
0.011
0.01
0.009
0.008
0.007

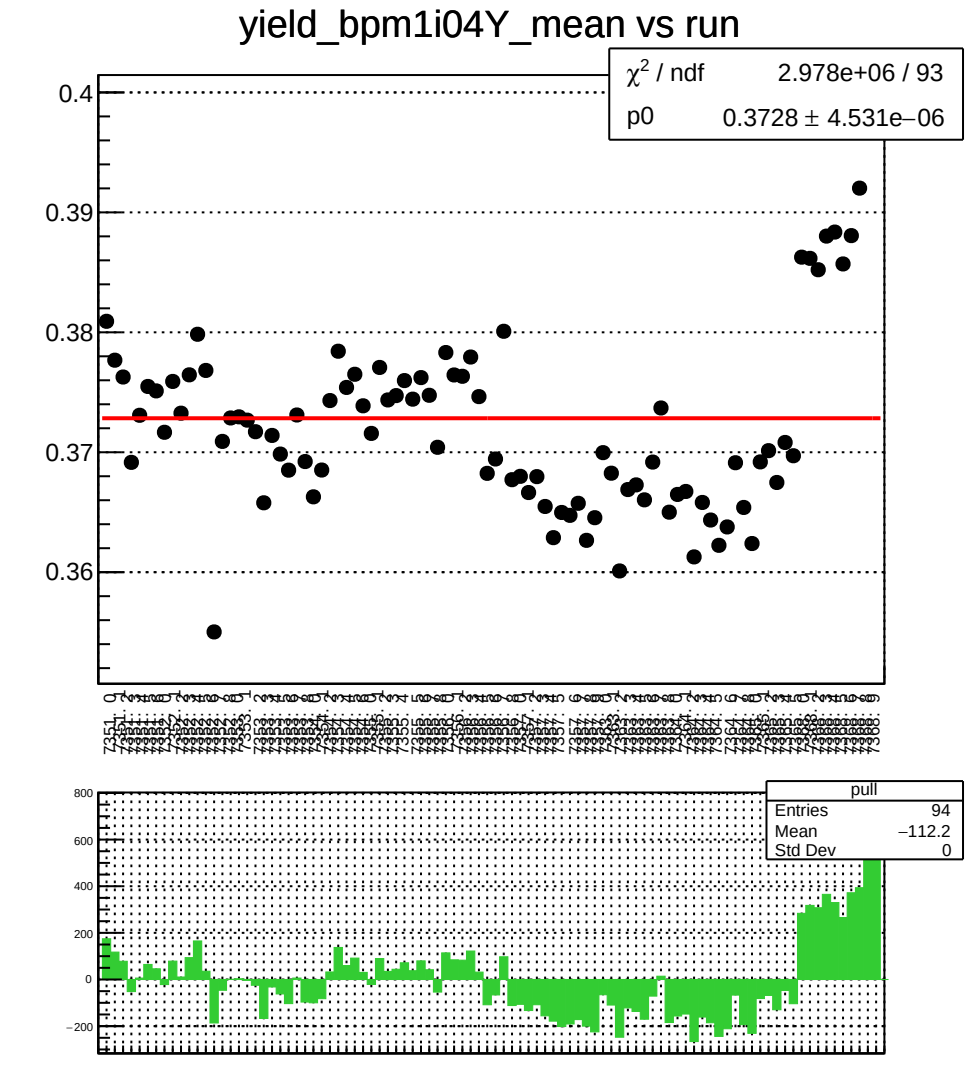

yield_bpm1i02Y_mean vs run
χ² / ndf 1.66e+06 / 93
p0 −1.563 ± 7.712e−06
−1.54
−1.55
−1.56
−1.57
−1.58
−1.59
pull
Entries 94
Mean 395
Std Dev 0
300
200
100
0
−100
−200
−300
−400

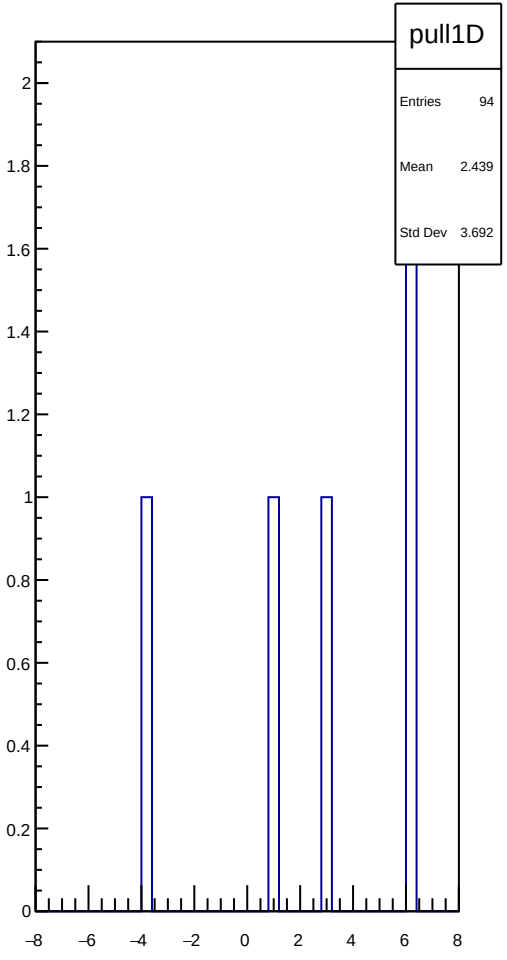

pull1D
Entries 94
Mean 0.7558
Std Dev 1.749
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

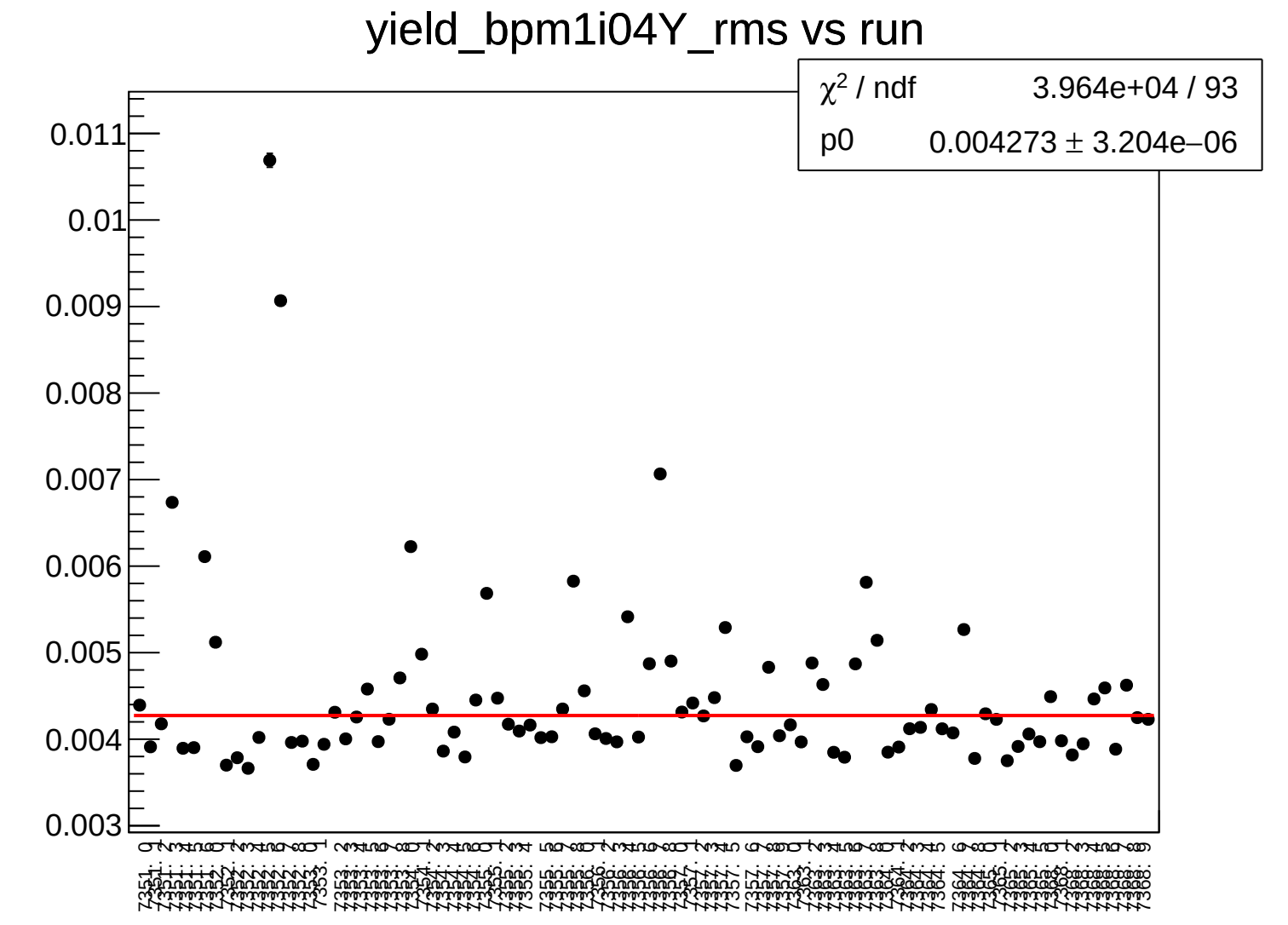

yield_bpm1i02Y_rms vs run
χ² / ndf 7225 / 93
p0 0.007339 ± 5.453e−06
0.012
0.011
0.01
0.009
0.008
0.007

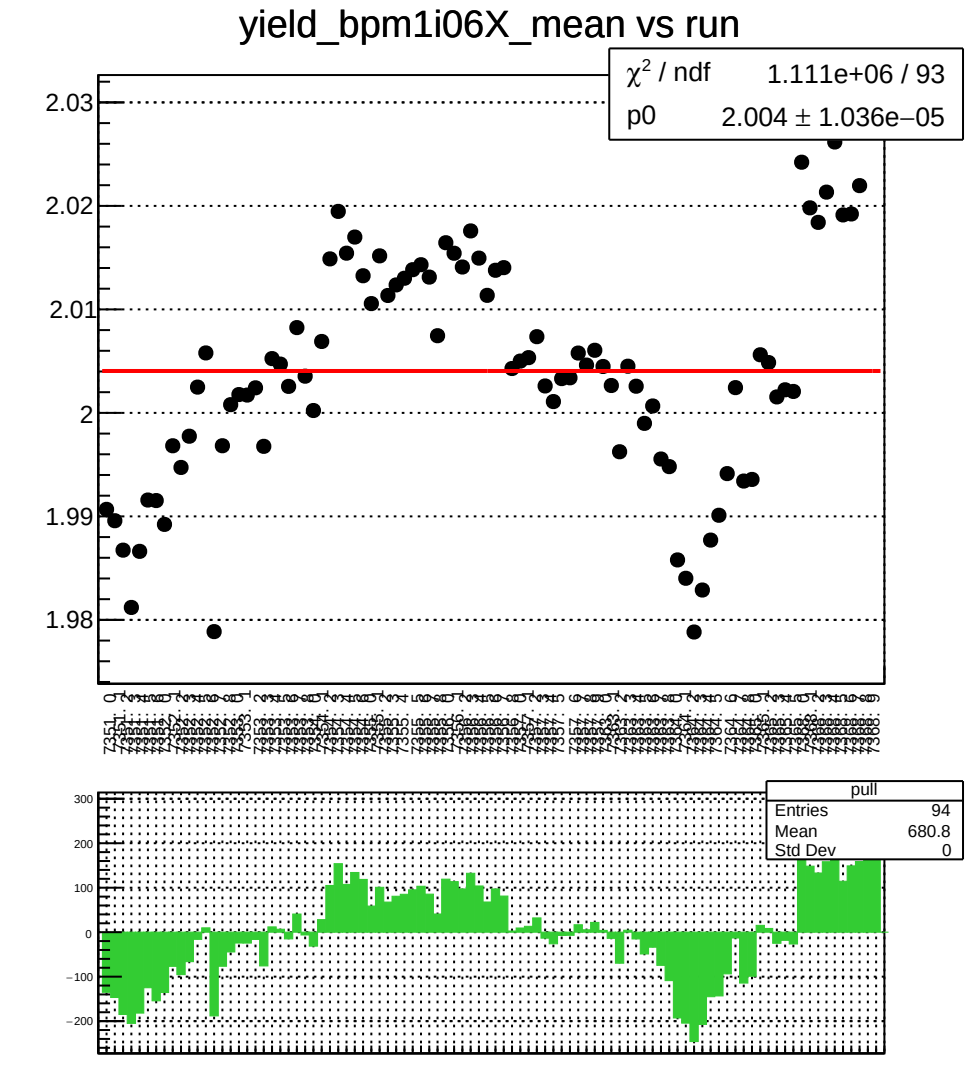

yield_bpm1i04X_mean vs run
χ² / ndf 9.148e+05 / 93
p0 1.122 ± 7.658e−06
1.14
1.135
1.13
1.125
1.12
1.115
1.11
1.105
1.1
pull
Entries 94
Mean 601.4
Std Dev 0
200
100
0
−100
−200
−300
pull1D
Entries 94
Mean 1.02
Std Dev 3.68
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

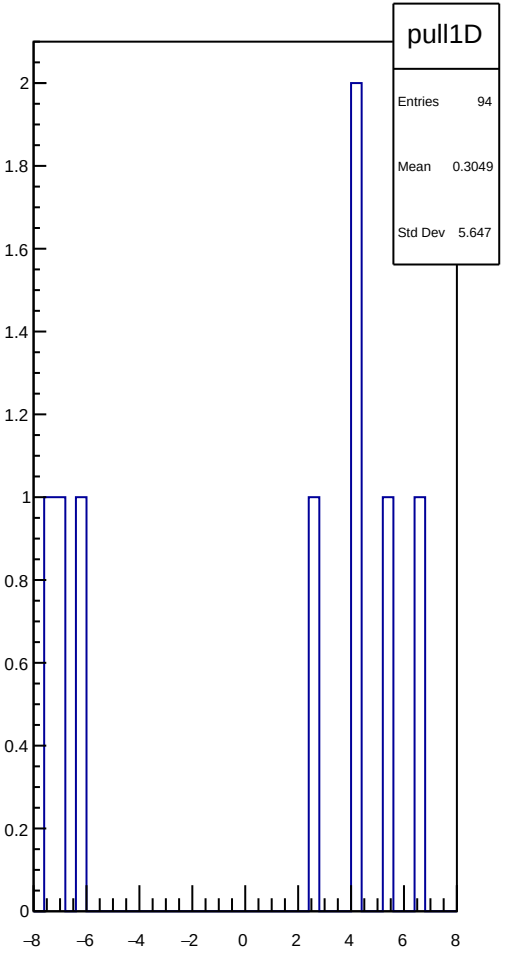

yield_bpm1i04X_rms vs run
χ² / ndf 1.158e+04 / 93
p0 0.00728 ± 5.415e−06
0.01
0.0095
0.009
0.0085
0.008
0.0075
0.007
0.0065

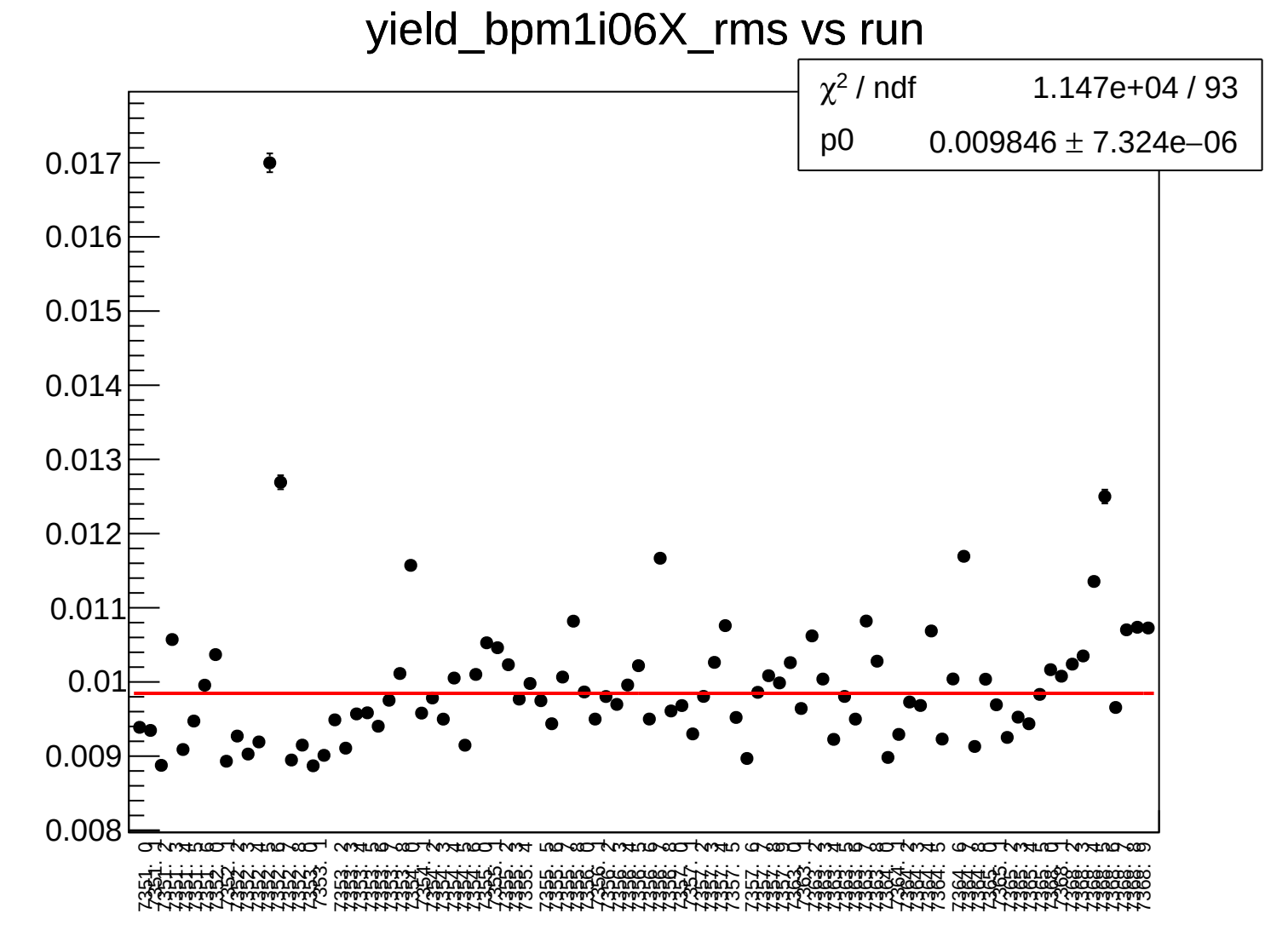

yield_bpm1i04Y_mean vs run
χ² / ndf 2.978e+06 / 93
p0 0.3728 ± 4.531e−06
0.4
0.39
0.38
0.37
0.36
pull
Entries 94
Mean −112.2
Std Dev 0
800
600
400
200
0
−200

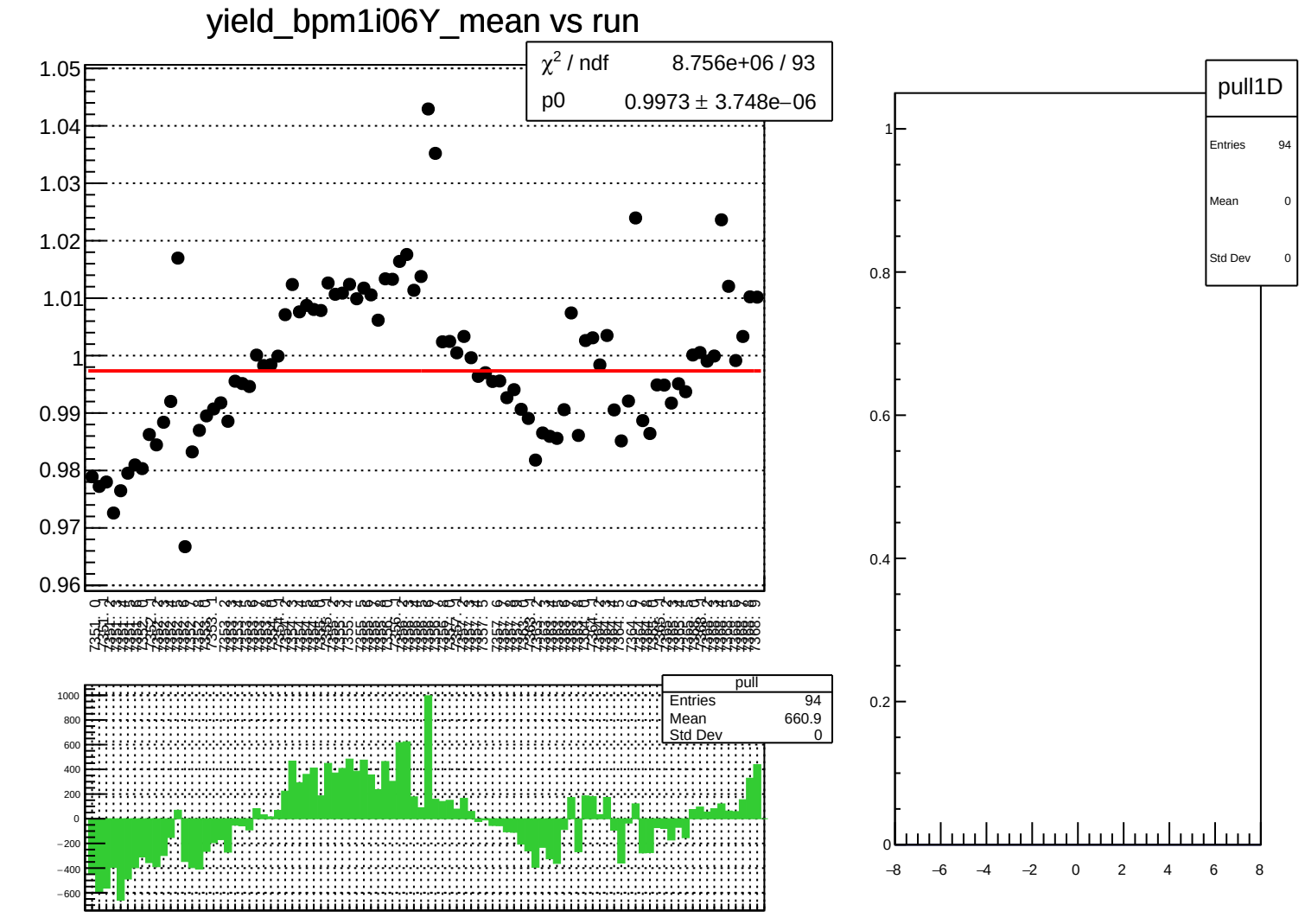

pull1D
Entries 94
Mean 2.439
Std Dev 3.692
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

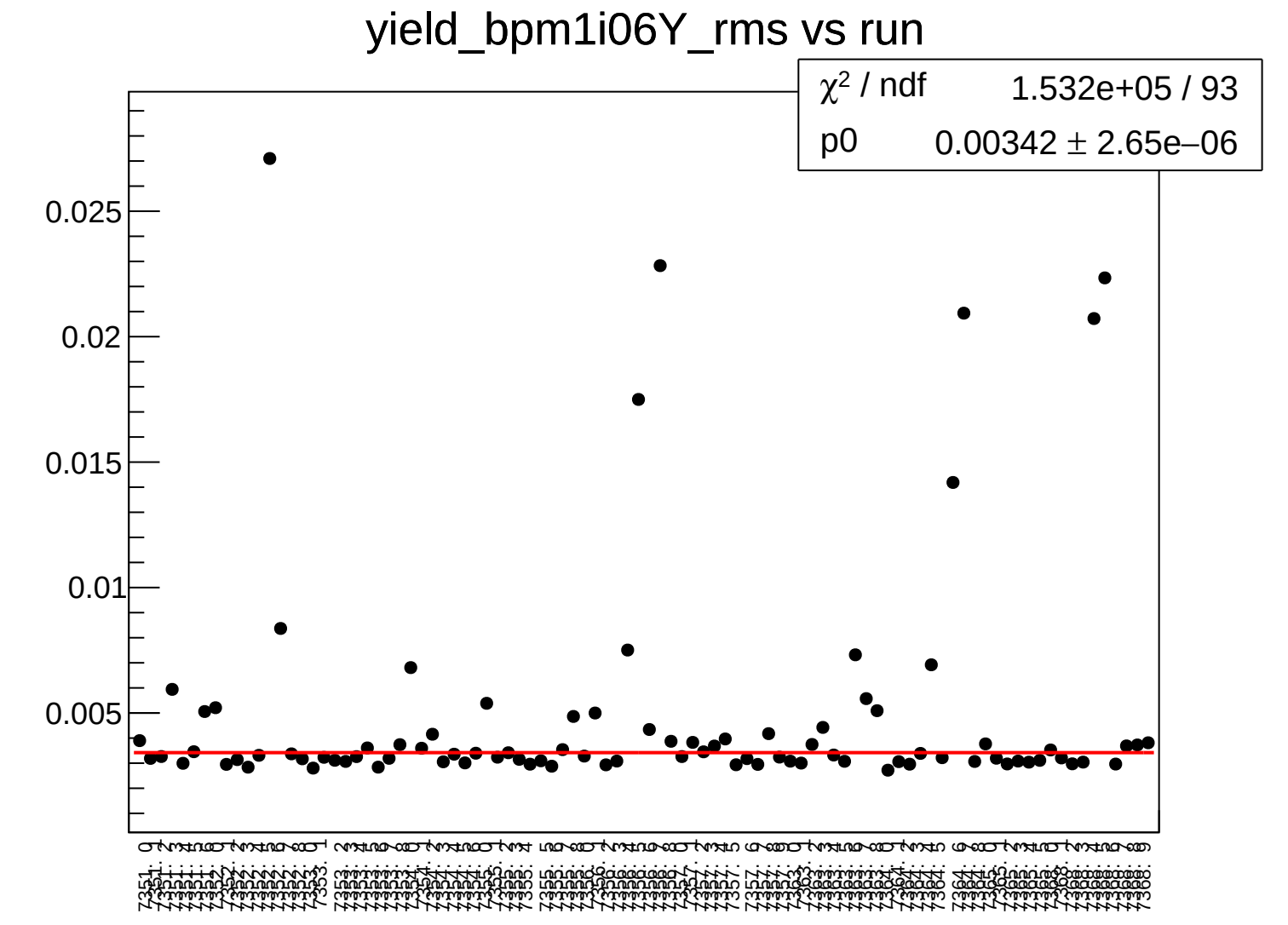

yield_bpm1i04Y_rms vs run
χ² / ndf 3.964e+04 / 93
p0 0.004273 ± 3.204e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003

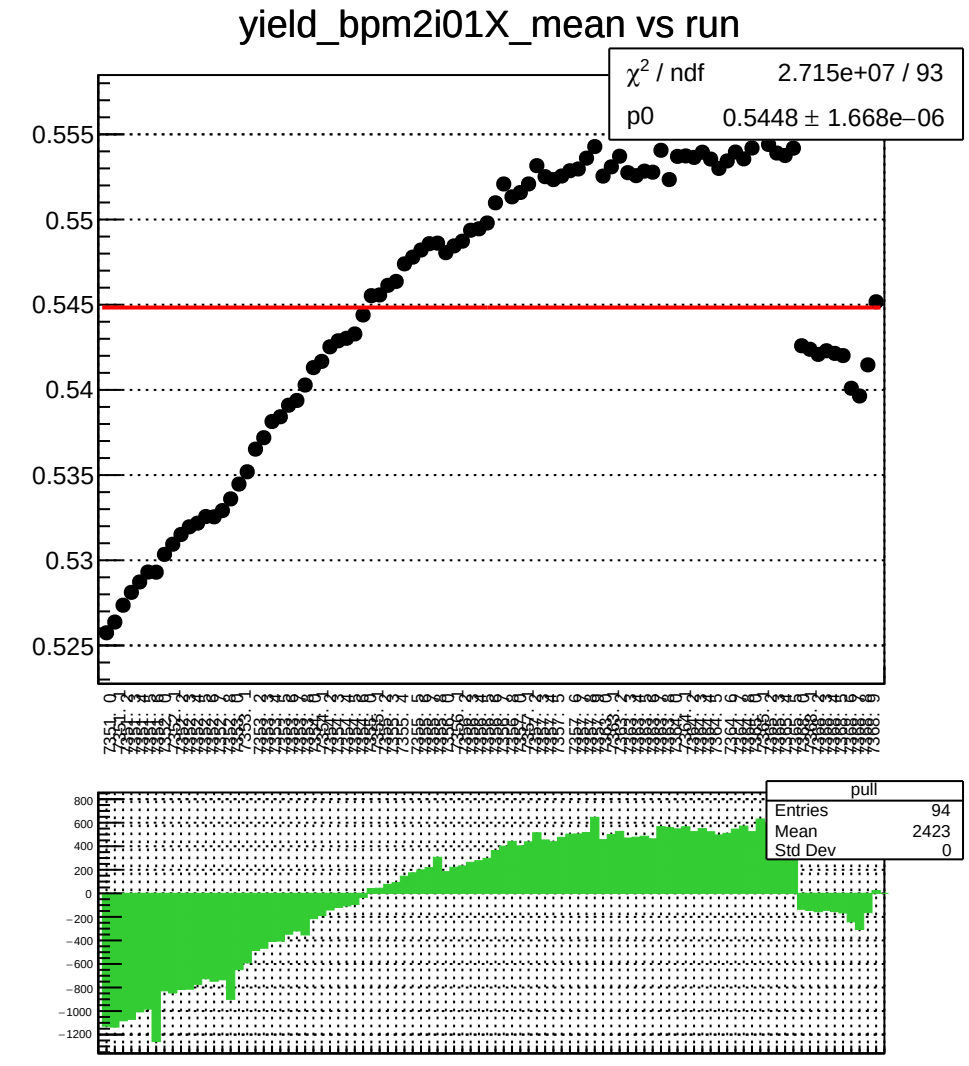

yield_bpm1i06X_mean vs run
χ² / ndf 1.111e+06 / 93
p0 2.004 ± 1.036e−05
2.03
2.02
2.01
2
1.99
1.98
pull
Entries 94
Mean 680.8
Std Dev 0
300
200
100
0
−100
−200

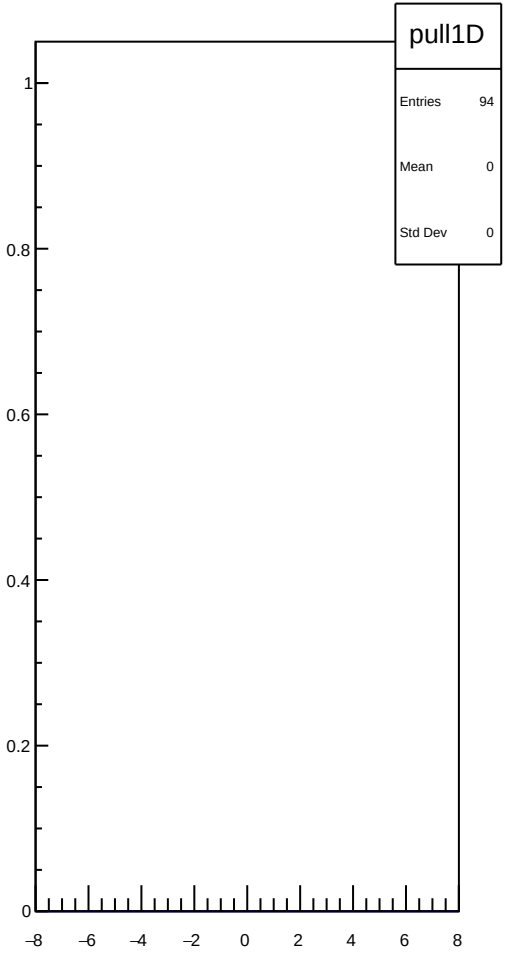

pull1D
Entries 94
Mean 0.3049
Std Dev 5.647
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

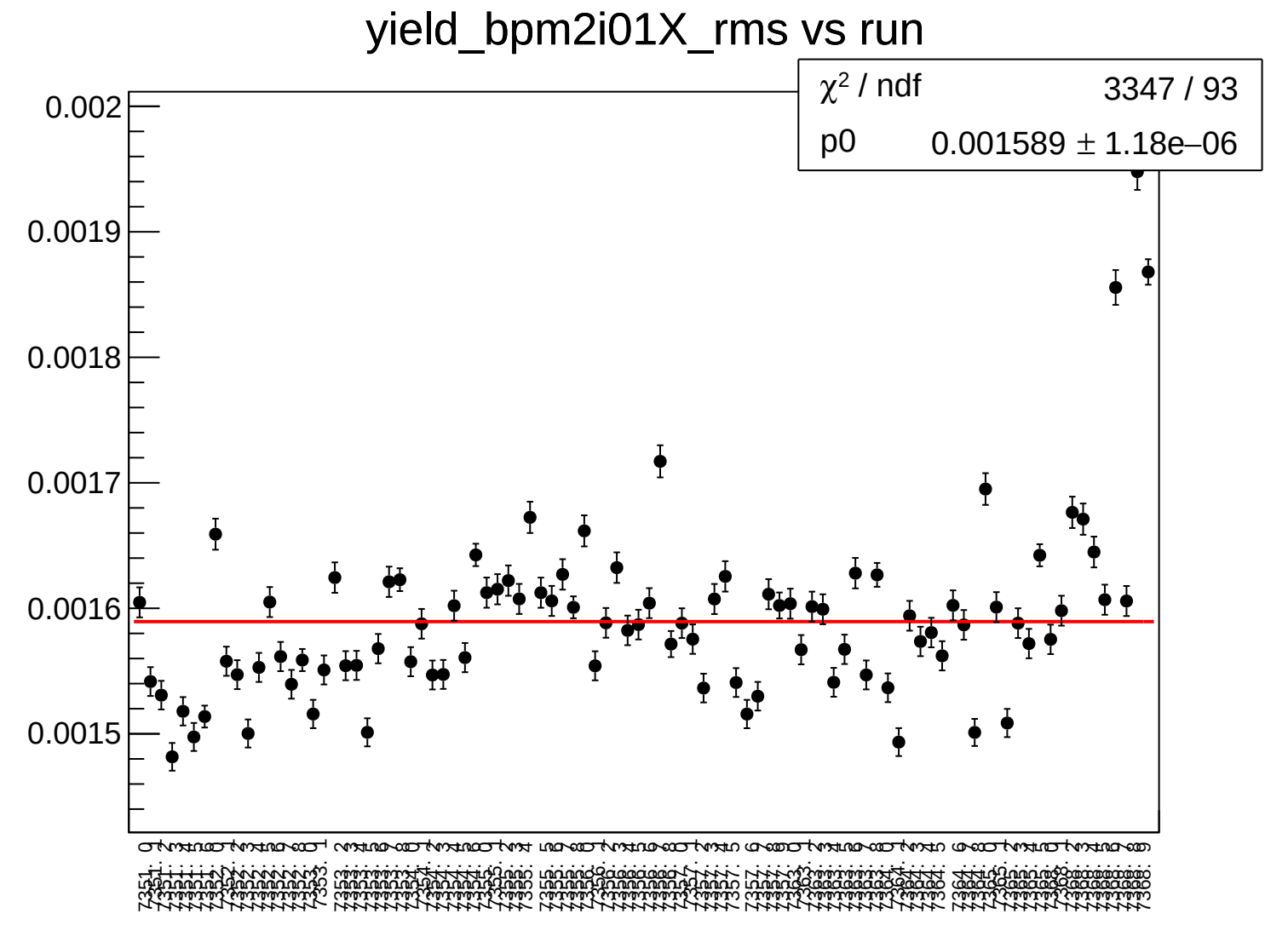

yield_bpm1i06X_rms vs run
χ^2 / ndf 1.147e+04 / 93
p0 0.009846 ± 7.324e−06
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008

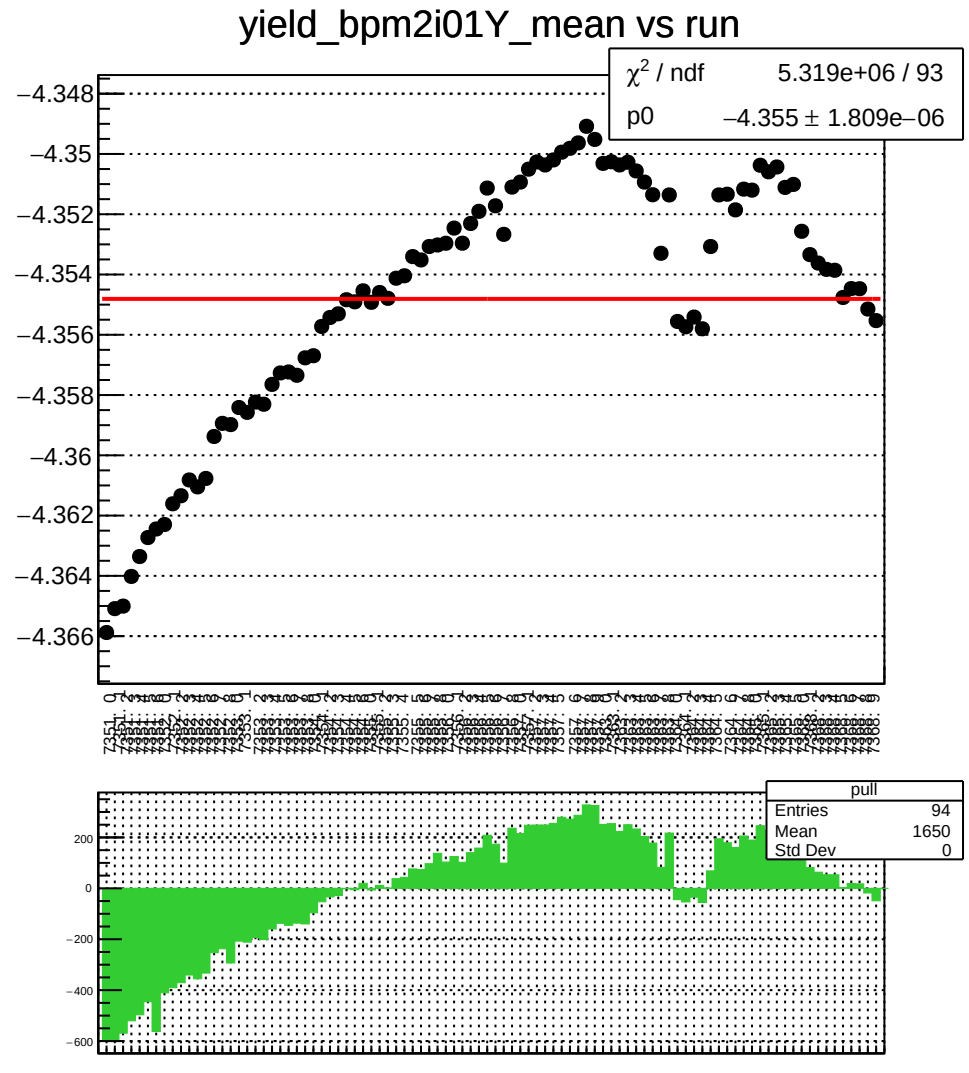

yield_bpm1i06Y_mean vs run
χ² / ndf 8.756e+06 / 93
p0 0.9973 ± 3.748e−06
pull
Entries 94
Mean 660.9
Std Dev 0
pull1D
Entries 94
Mean 0
Std Dev 0

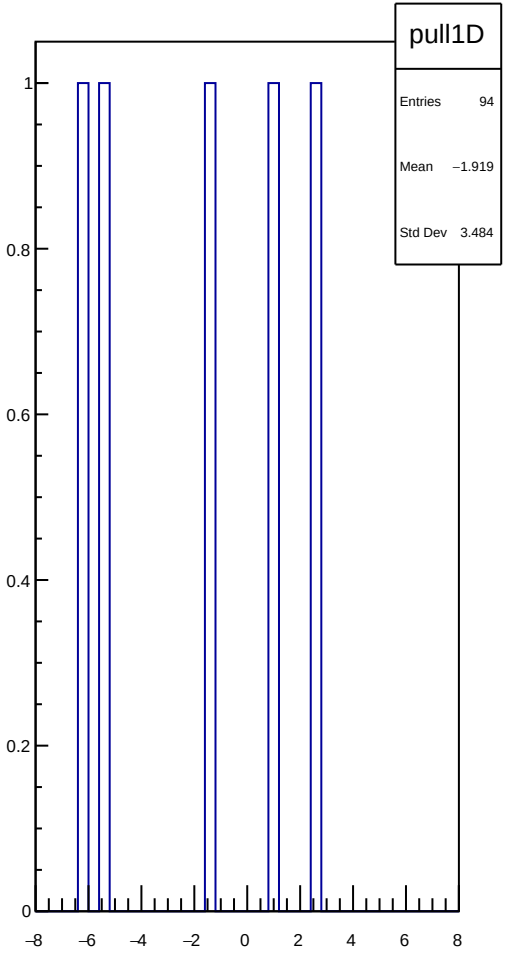

yield_bpm1i06Y_rms vs run
χ² / ndf 1.532e+05 / 93
p0 0.00342 ± 2.65e−06
0.025
0.02
0.015
0.01
0.005


yield_bpm2i01X_mean vs run
χ² / ndf 2.715e+07 / 93
p0 0.5448 ± 1.668e−06
0.555
0.55
0.545
0.54
0.535
0.53
0.525
pull
Entries 94
Mean 2423
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800
−1000
−1200

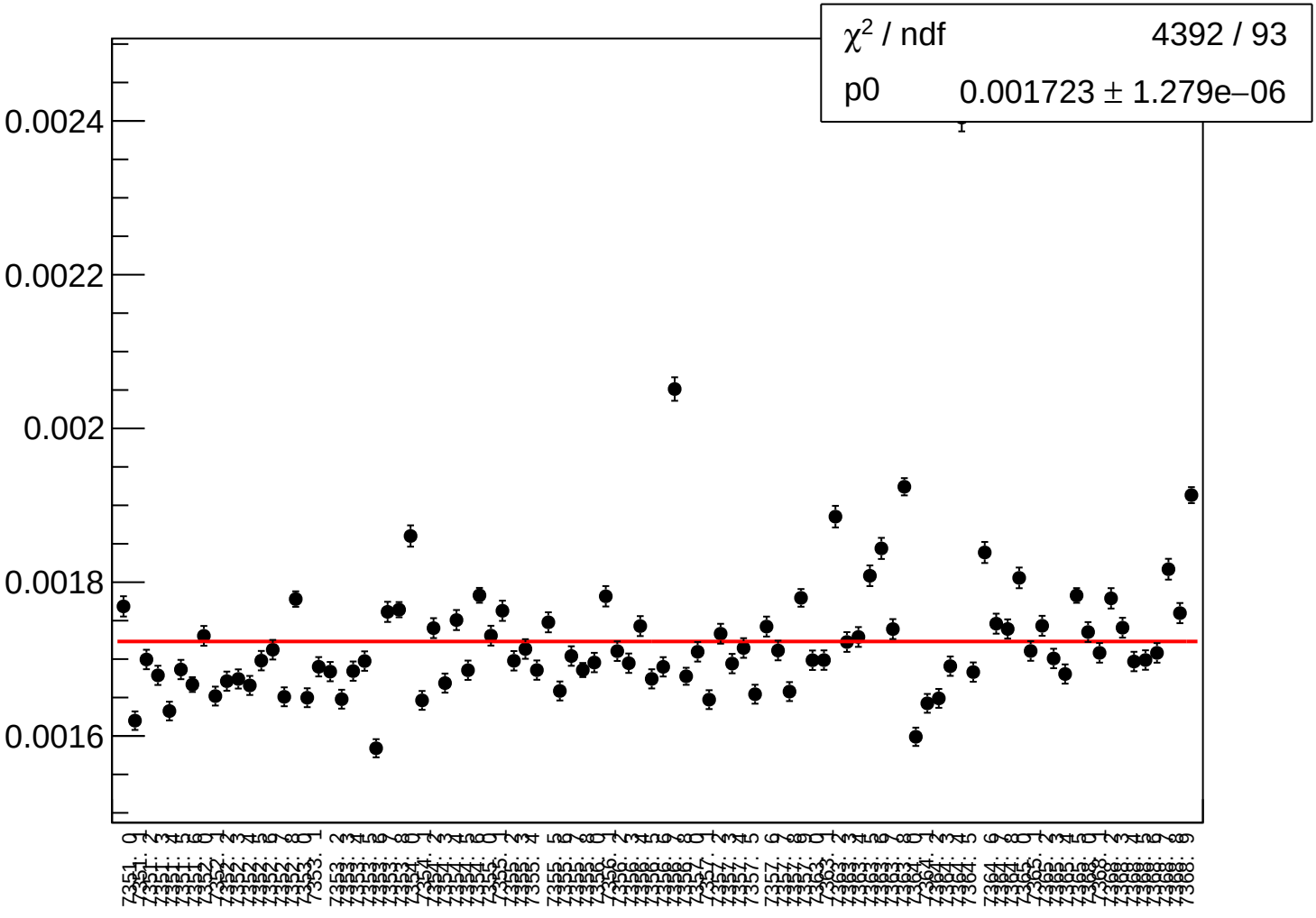

pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

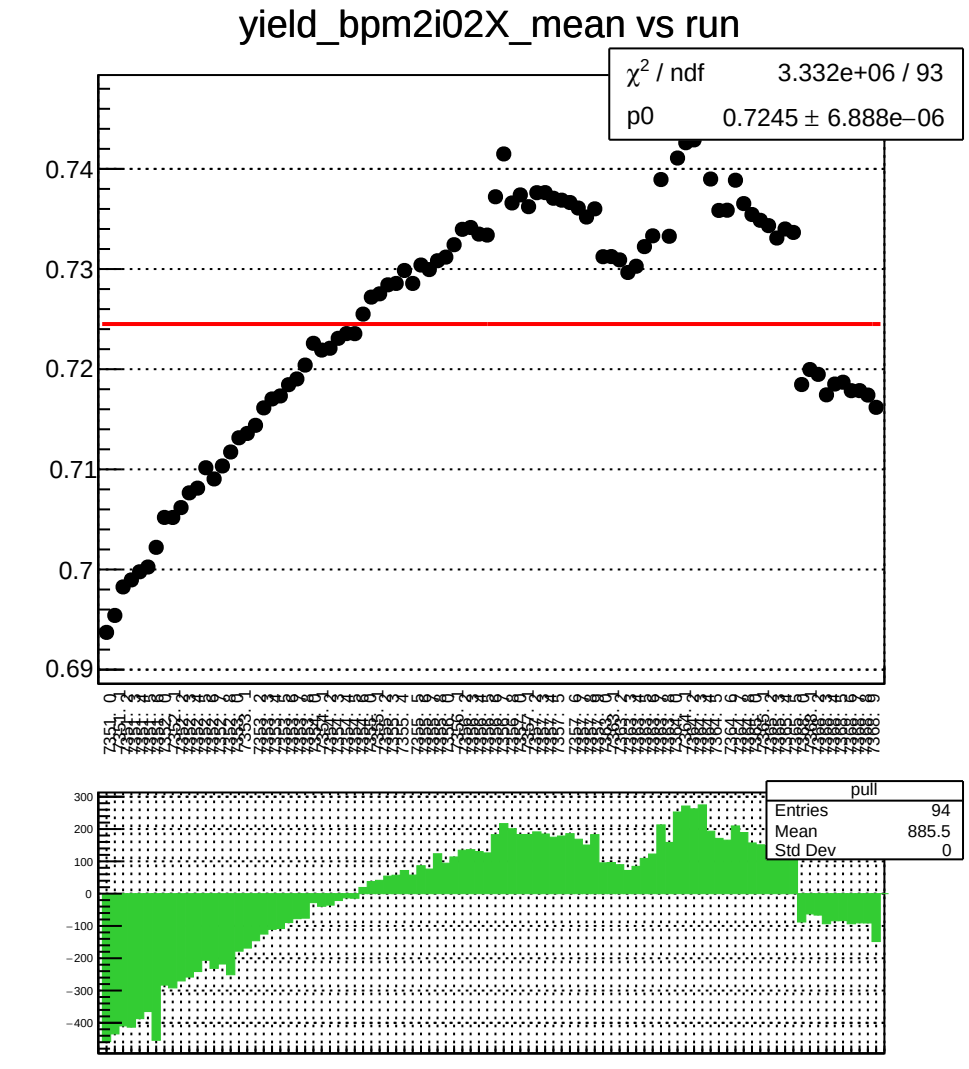

yield_bpm2i01X_rms vs run
χ² / ndf 3347 / 93
p0 0.001589 ± 1.18e–06
0.002
0.0019
0.0018
0.0017
0.0016
0.0015

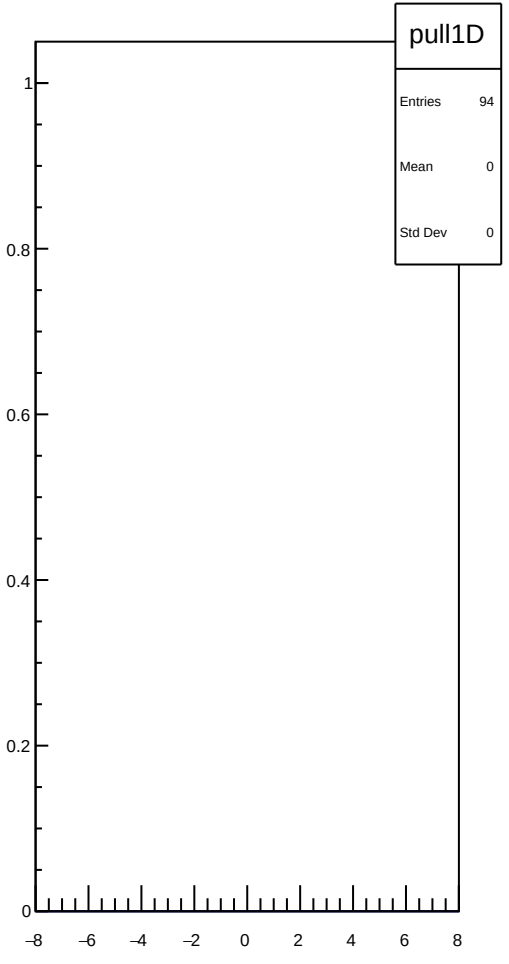

yield_bpm2i01Y_mean vs run
χ² / ndf 5.319e+06 / 93
p0 −4.355 ± 1.809e−06
−4.348
−4.35
−4.352
−4.354
−4.356
−4.358
−4.36
−4.362
−4.364
−4.366
pull
Entries 94
Mean 1650
Std Dev 0
200
0
−200
−400
−600

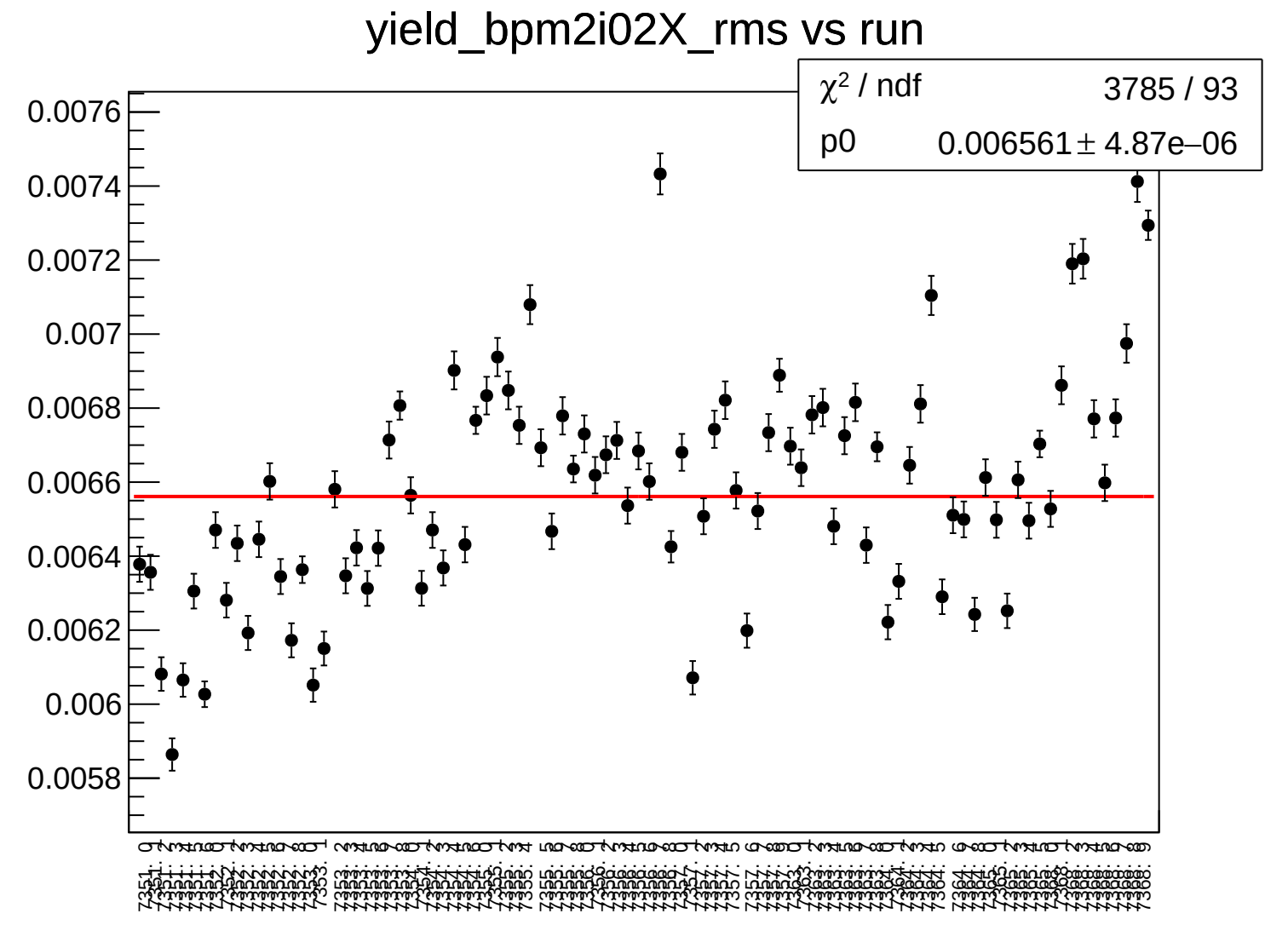

pull1D
Entries 94
Mean −1.919
Std Dev 3.484
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

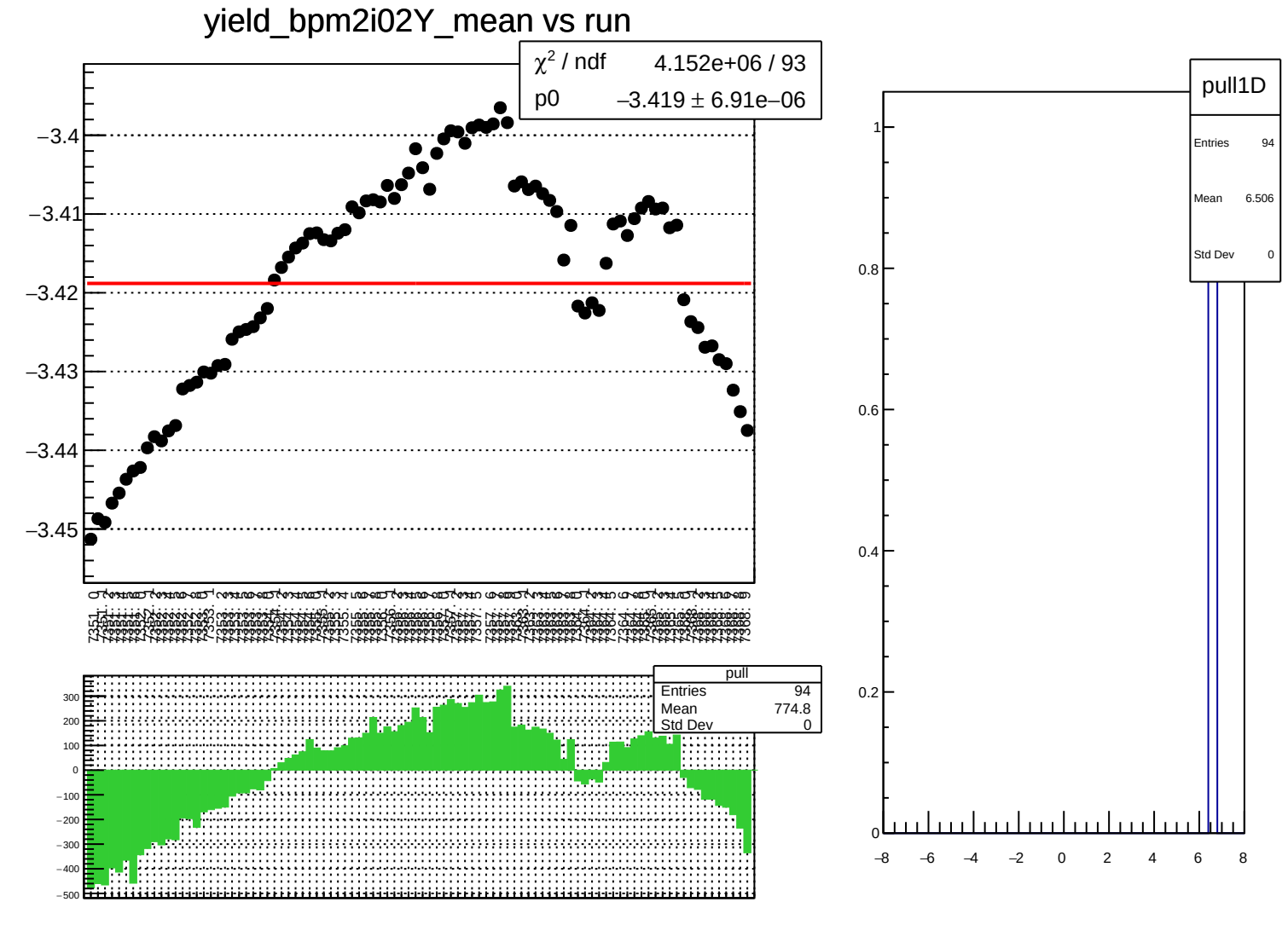
yield_bpm2i01Y_rms vs run

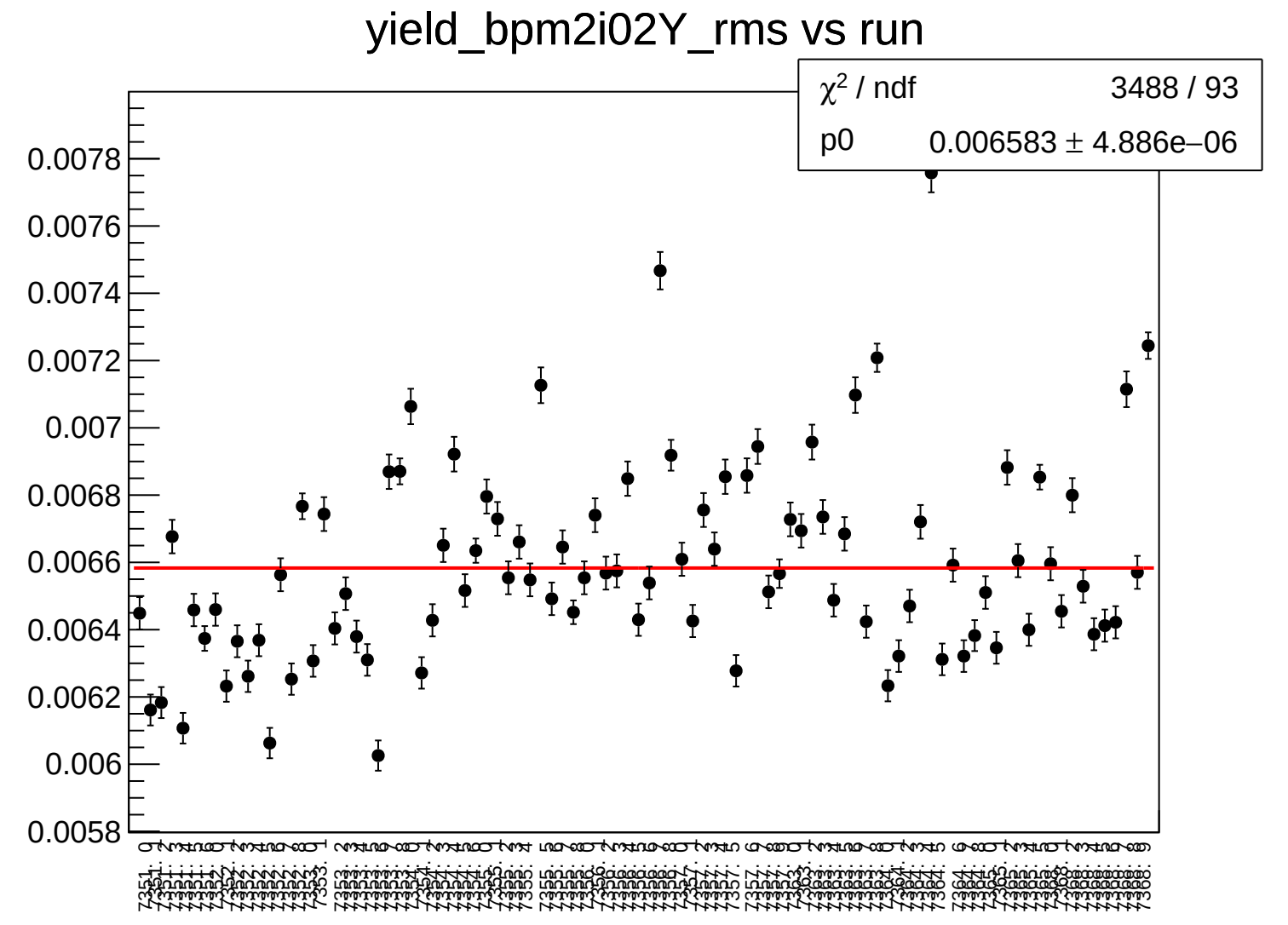


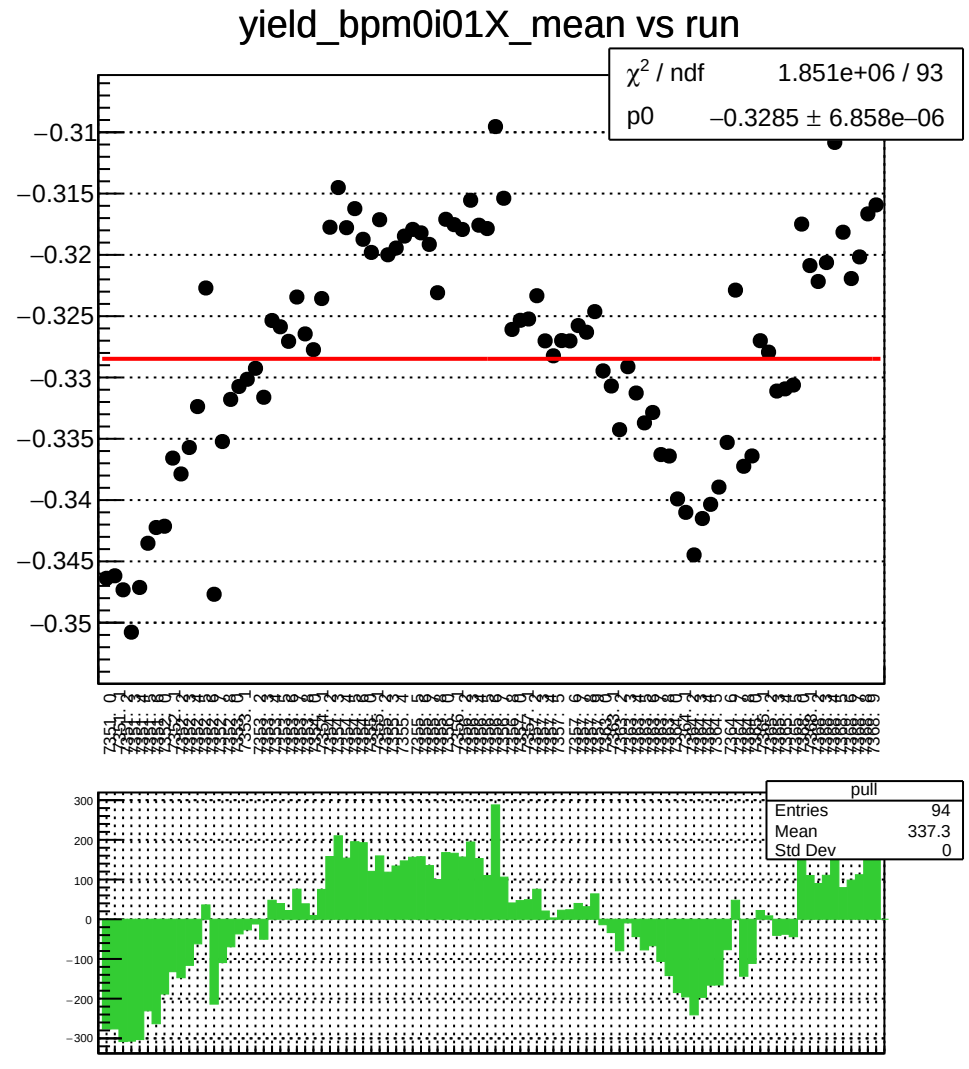

yield_bpm2i02X_mean vs run
χ² / ndf 3.332e+06 / 93
p0 0.7245 ± 6.888e−06
0.74
0.73
0.72
0.71
0.7
0.69
pull
Entries 94
Mean 885.5
Std Dev 0
300
200
100
0
−100
−200
−300
−400

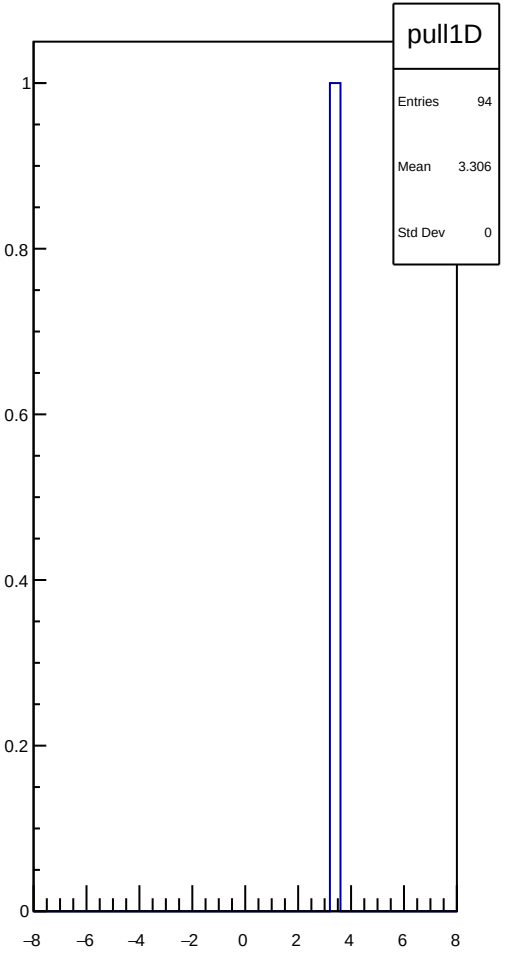

pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

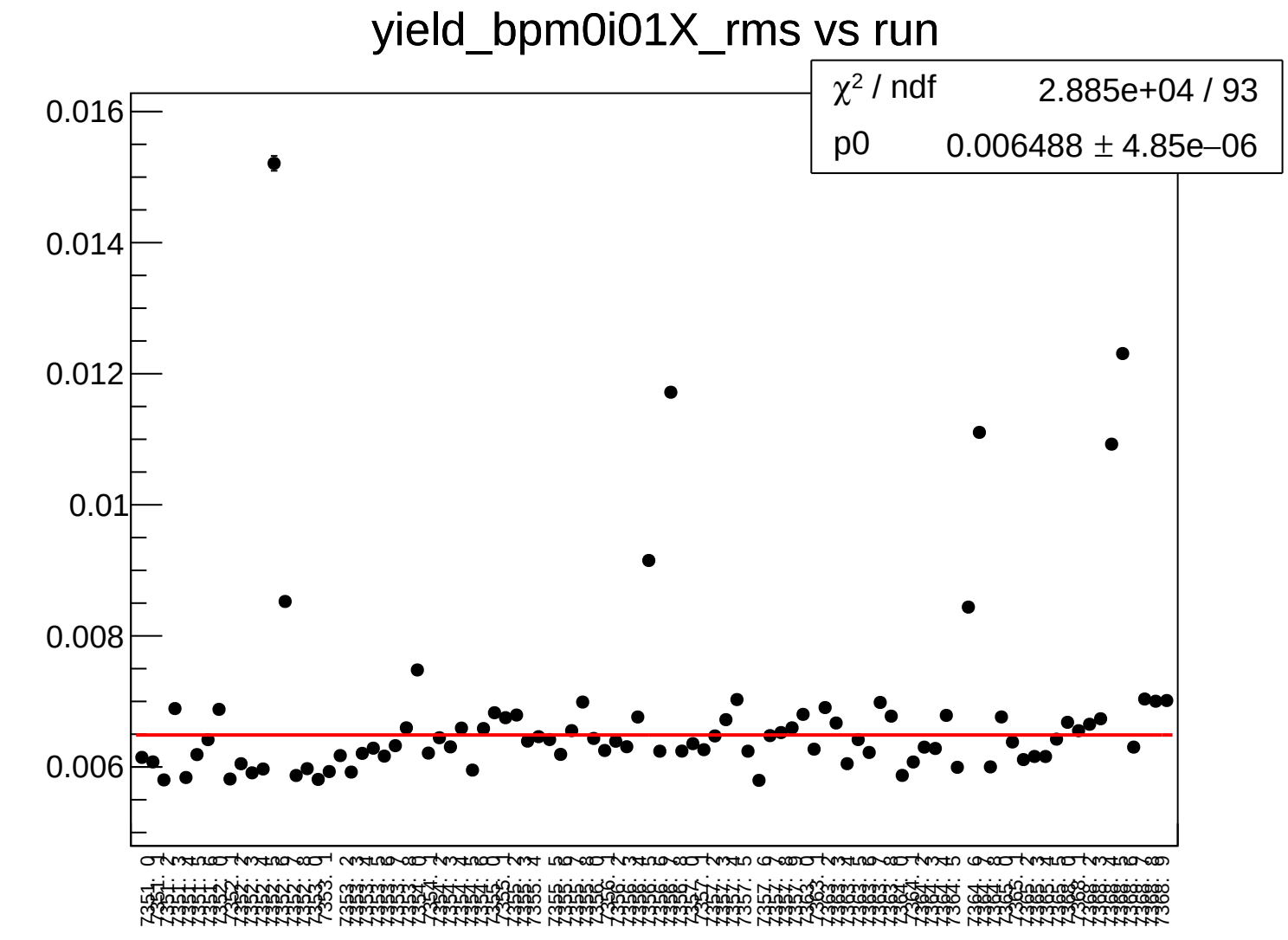

yield_bpm2i02X_rms vs run
χ² / ndf 3785 / 93
p0 0.006561 ± 4.87e–06
0.0076
0.0074
0.0072
0.007
0.0068
0.0066
0.0064
0.0062
0.006
0.0058

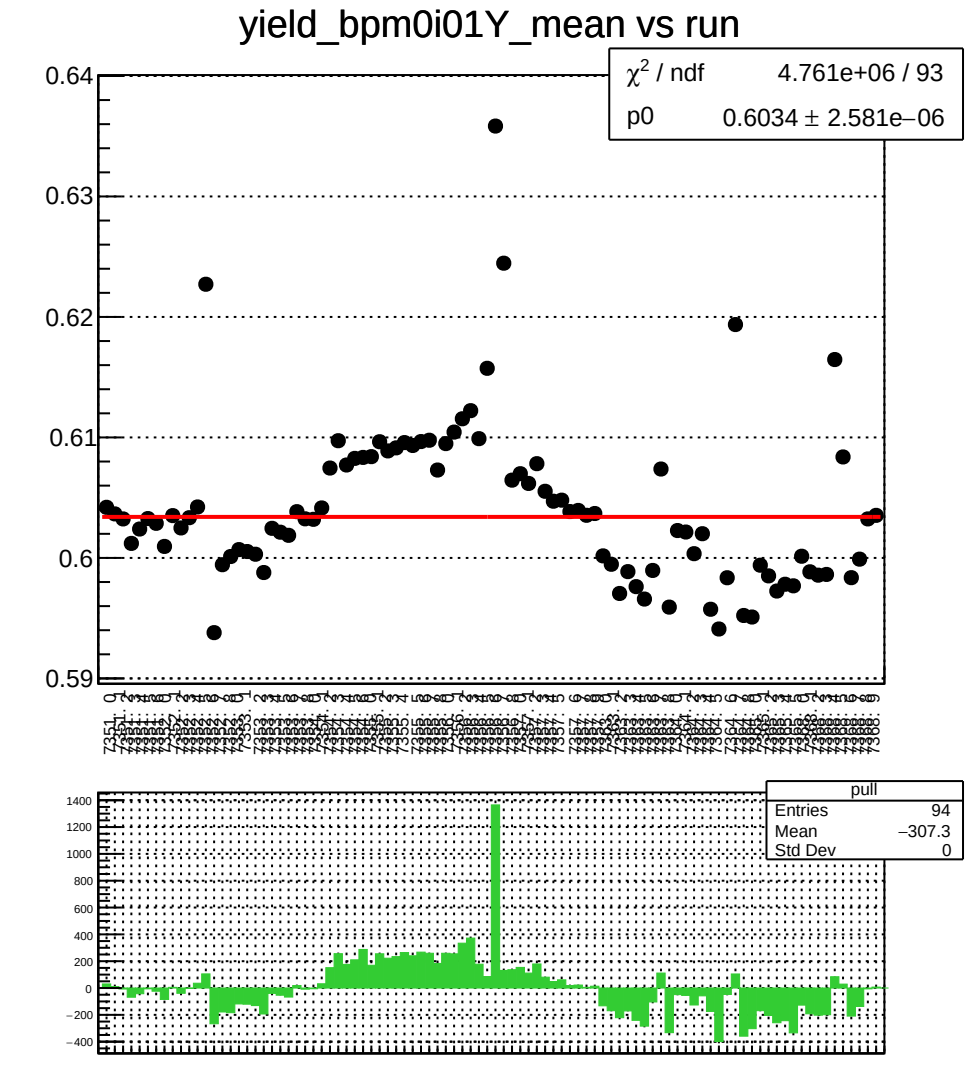

yield_bpm2i02Y_mean vs run
χ² / ndf 4.152e+06 / 93
p0 −3.419 ± 6.91e−06
−3.4
−3.41
−3.42
−3.43
−3.44
−3.45
pull
Entries 94
Mean 774.8
Std Dev 0
300
200
100
0
−100
−200
−300
−400
−500
pull1D
Entries 94
Mean 6.506
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

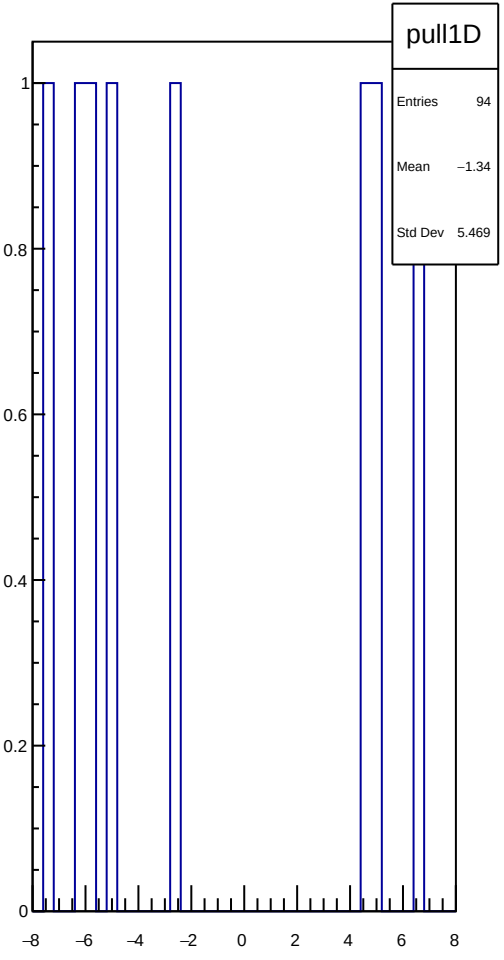

yield_bpm2i02Y_rms vs run
χ² / ndf 3488 / 93
p0 0.006583 ± 4.886e−06
0.0078
0.0076
0.0074
0.0072
0.007
0.0068
0.0066
0.0064
0.0062
0.006
0.0058

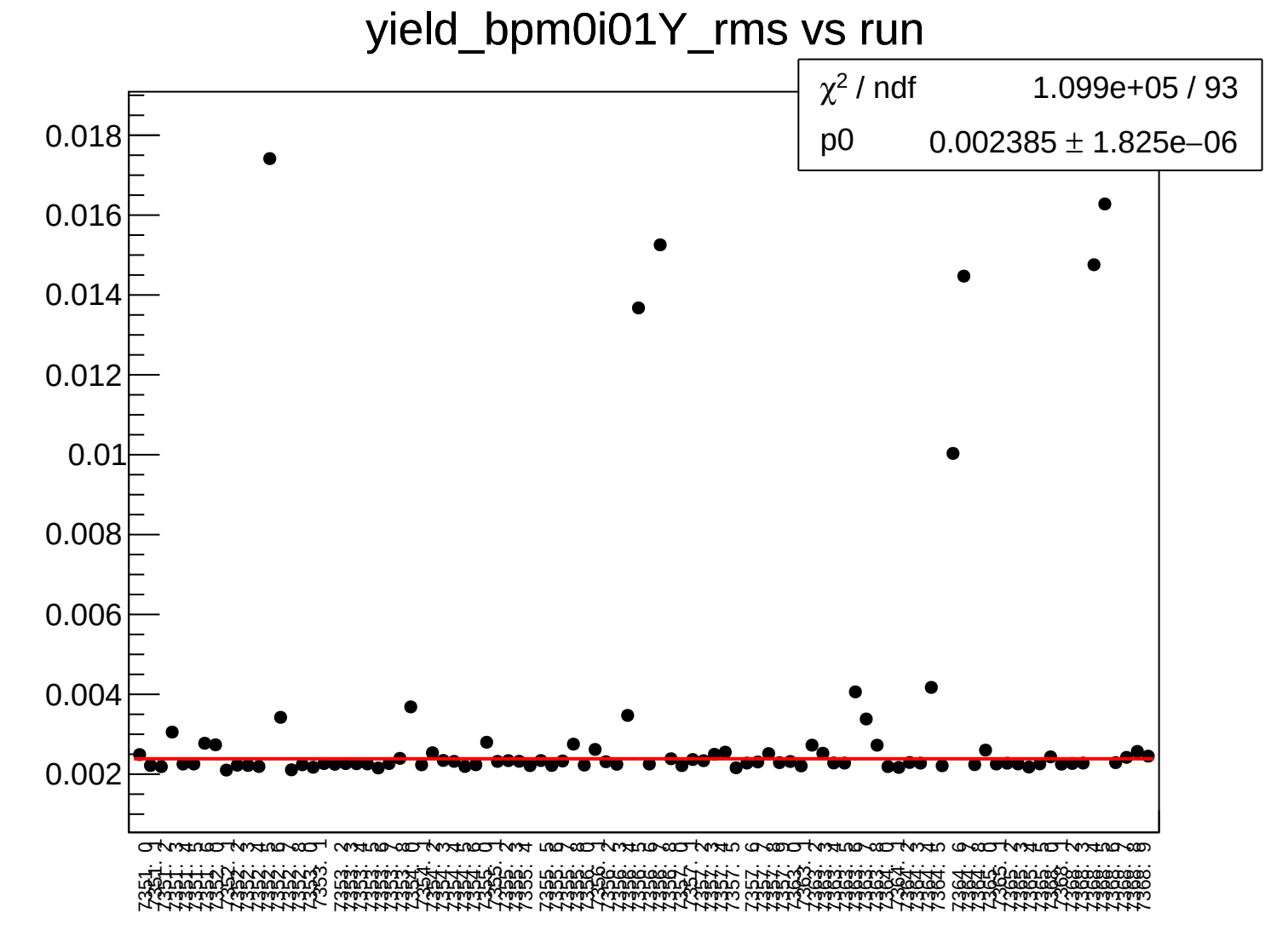

yield_bpm0i01X_mean vs run
χ² / ndf 1.851e+06 / 93
p0 −0.3285 ± 6.858e−06
−0.31
−0.315
−0.32
−0.325
−0.33
−0.335
−0.34
−0.345
−0.35
pull
Entries 94
Mean 337.3
Std Dev 0
300
200
100
0
−100
−200
−300

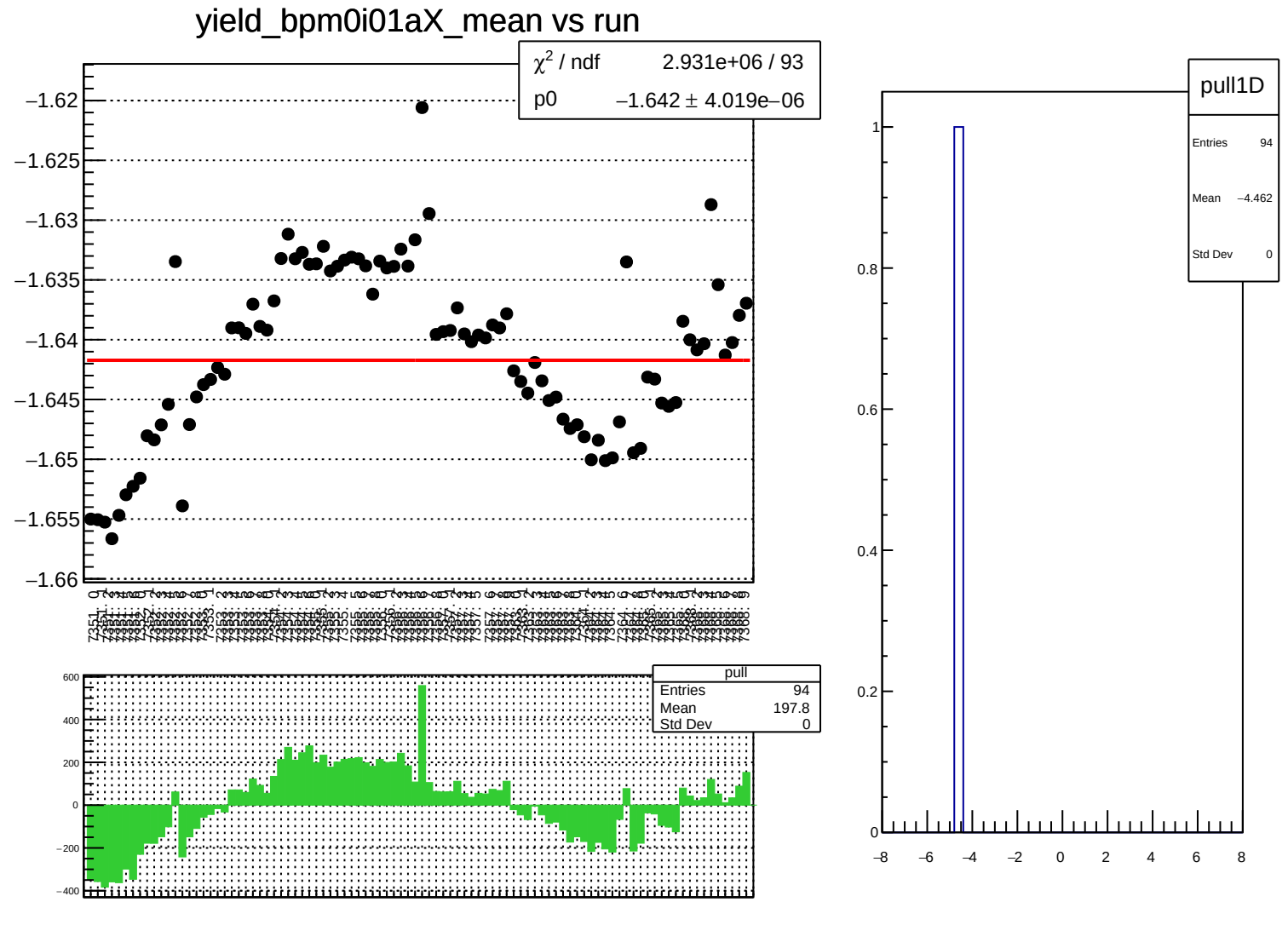

pull1D
Entries 94
Mean 3.306
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

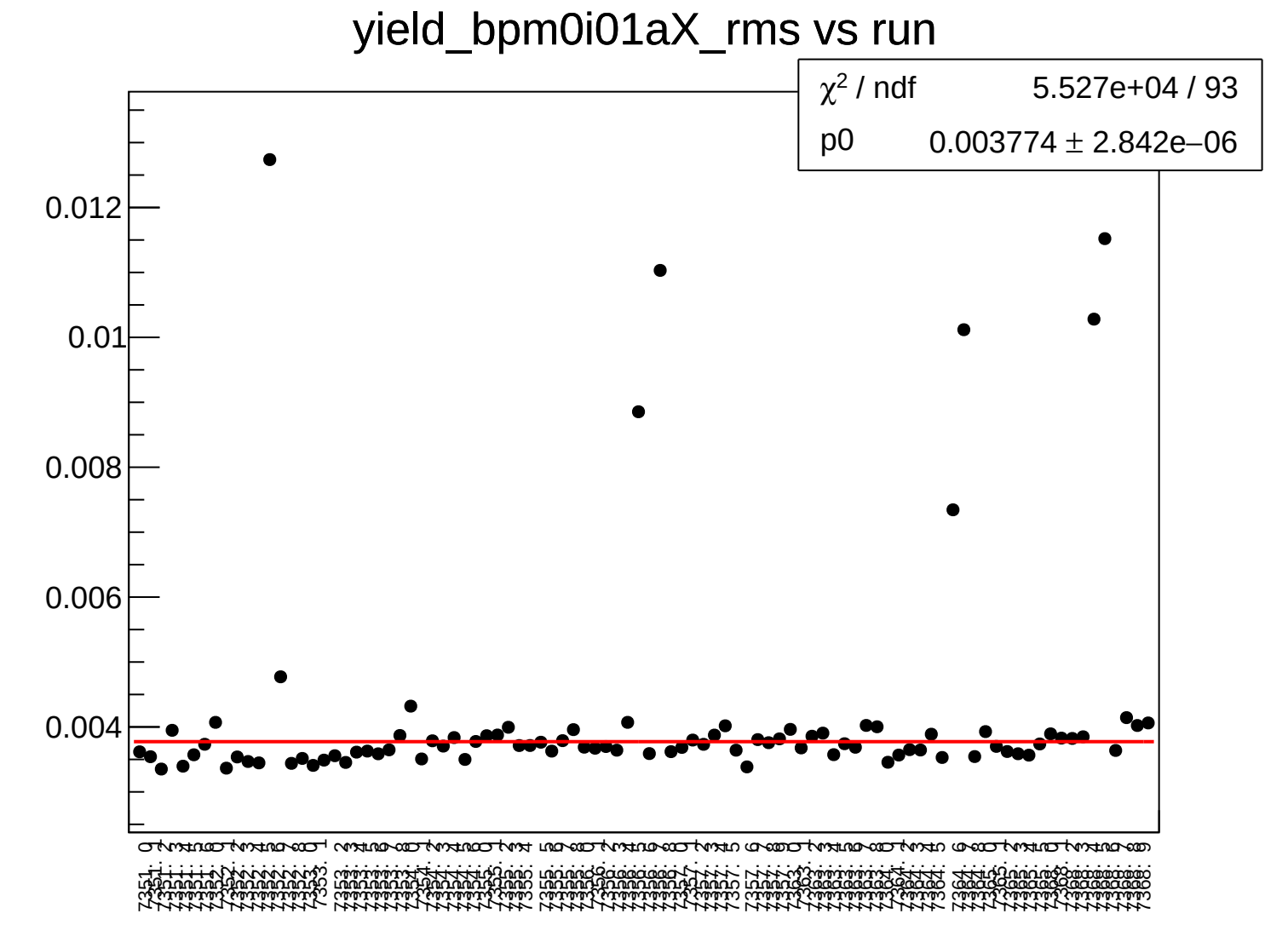

yield_bpm0i01X_rms vs run
χ² / ndf 2.885e+04 / 93
p0 0.006488 ± 4.85e–06
0.016
0.014
0.012
0.01
0.008
0.006

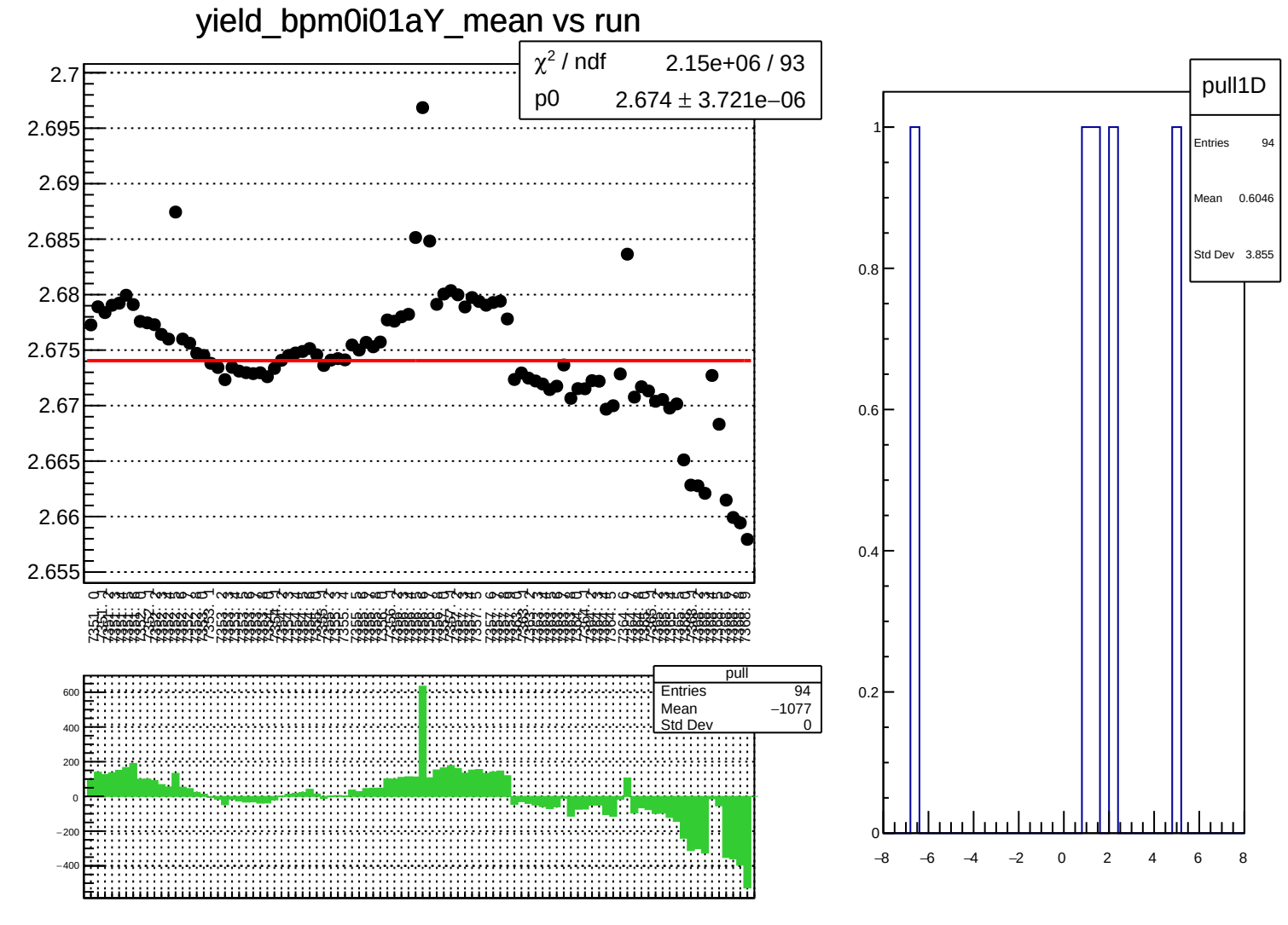

yield_bpm0i01Y_mean vs run
χ² / ndf 4.761e+06 / 93
p0 0.6034 ± 2.581e−06
0.64
0.63
0.62
0.61
0.6
0.59
pull
Entries 94
Mean −307.3
Std Dev 0
1400
1200
1000
800
600
400
200
0
−200
−400

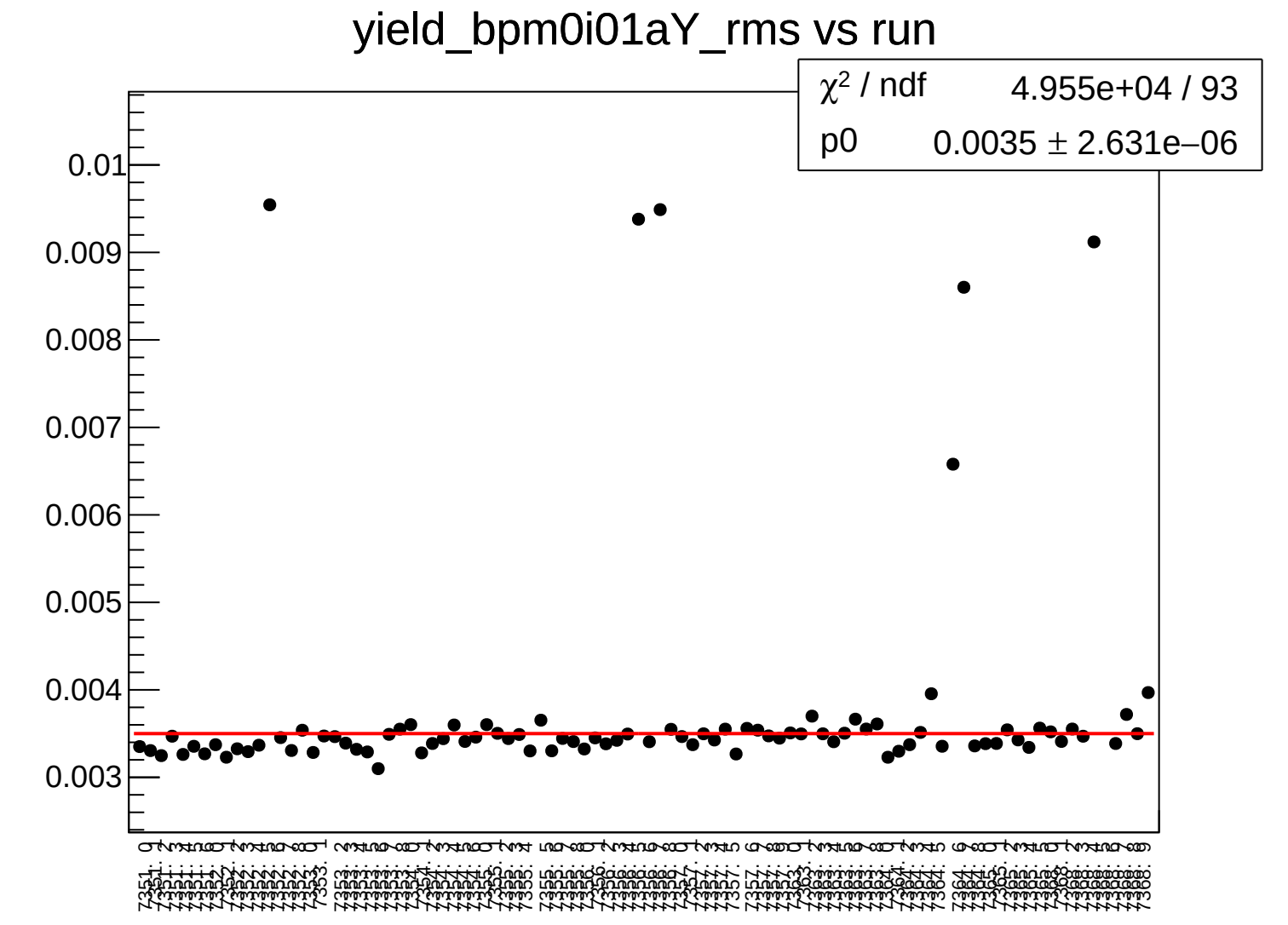

pull1D
Entries 94
Mean −1.34
Std Dev 5.469
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

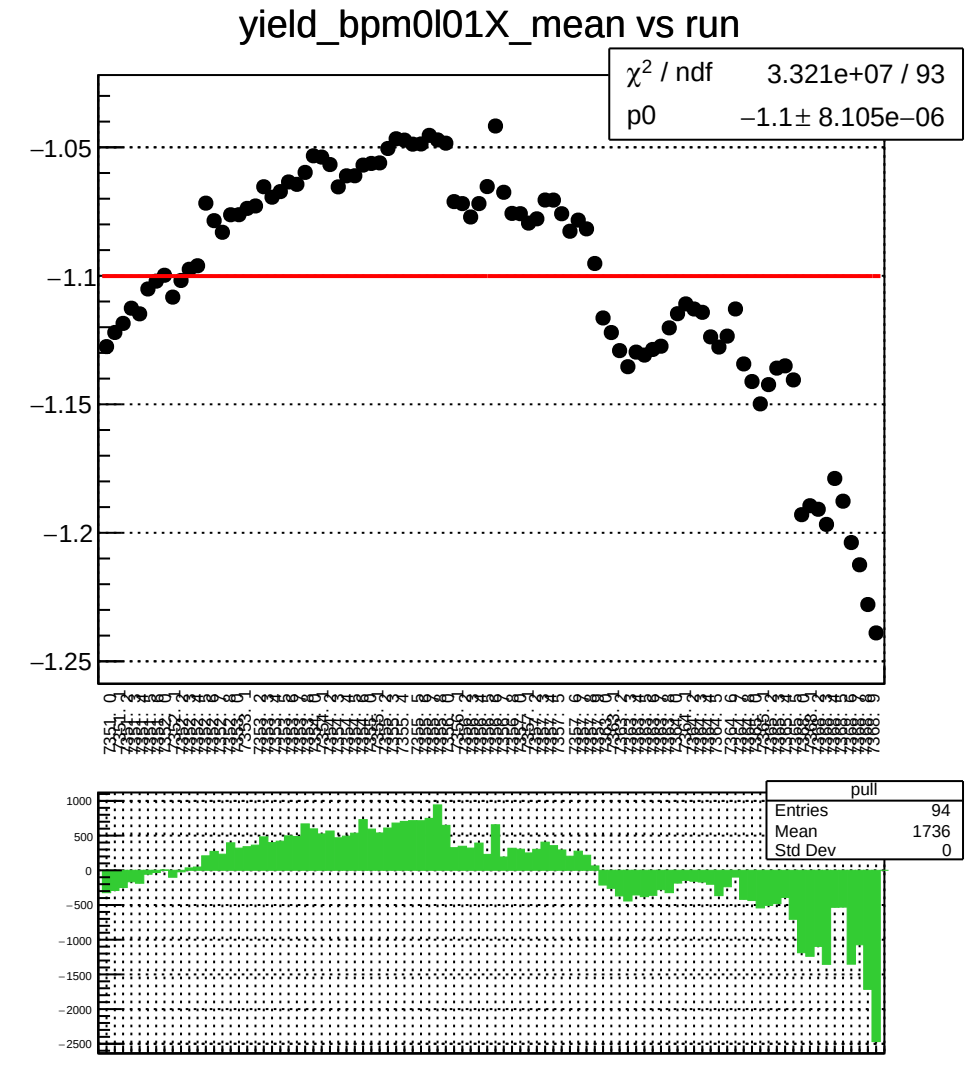

yield_bpm0i01Y_rms vs run
χ² / ndf 1.099e+05 / 93
p0 0.002385 ± 1.825e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

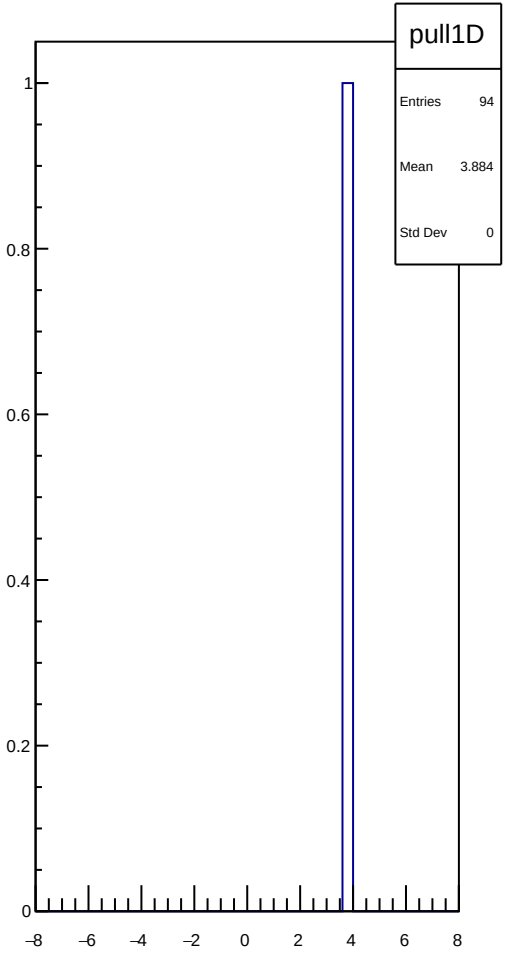

yield_bpm0i01aX_mean vs run
χ² / ndf 2.931e+06 / 93
p0 −1.642 ± 4.019e−06
−1.62
−1.625
−1.63
−1.635
−1.64
−1.645
−1.65
−1.655
−1.66
pull
Entries 94
Mean 197.8
Std Dev 0
600
400
200
0
−200
−400
pull1D
Entries 94
Mean −4.462
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

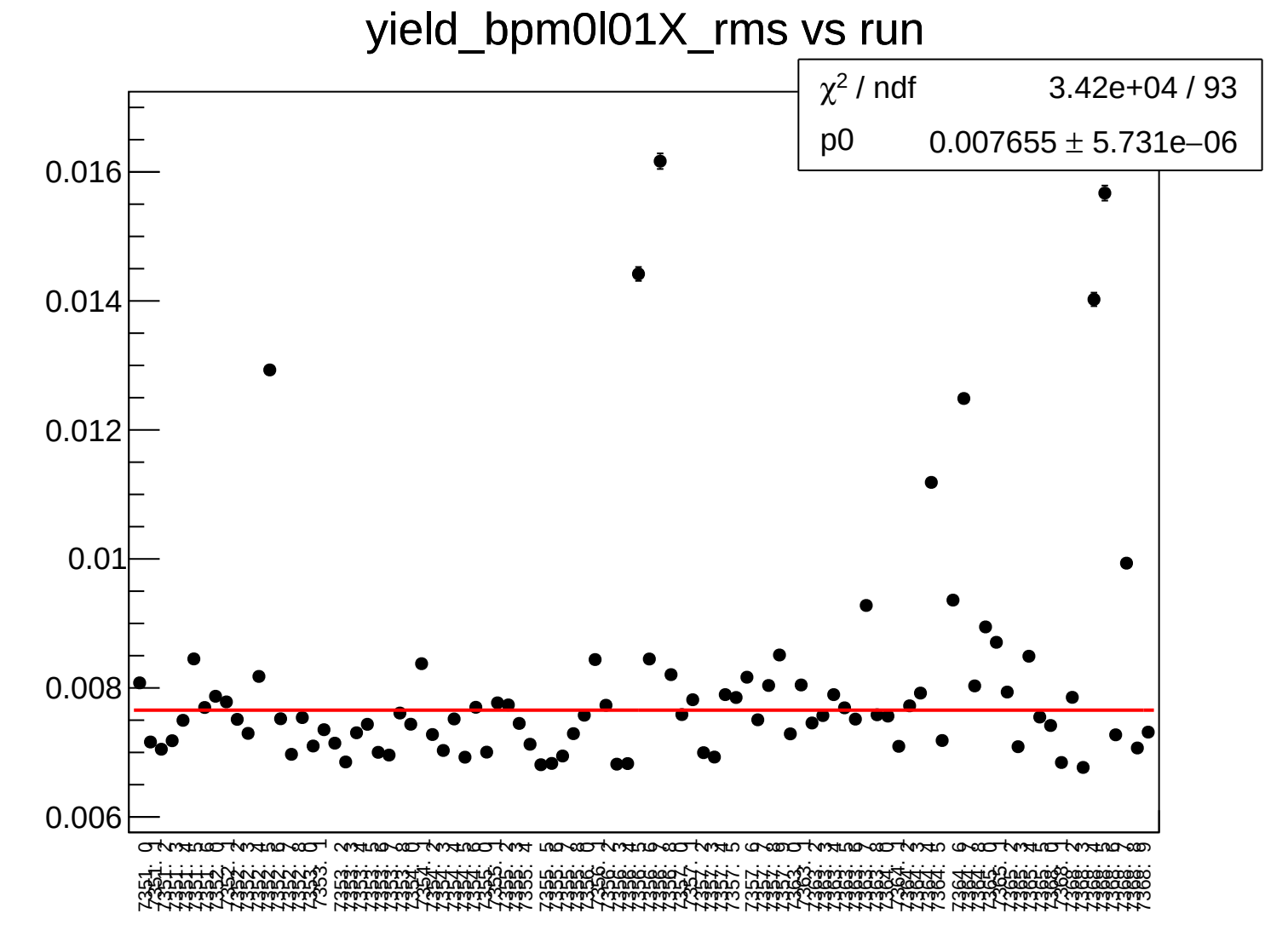

yield_bpm0i01aX_rms vs run
χ² / ndf 5.527e+04 / 93
p0 0.003774 ± 2.842e−06
0.012
0.01
0.008
0.006
0.004

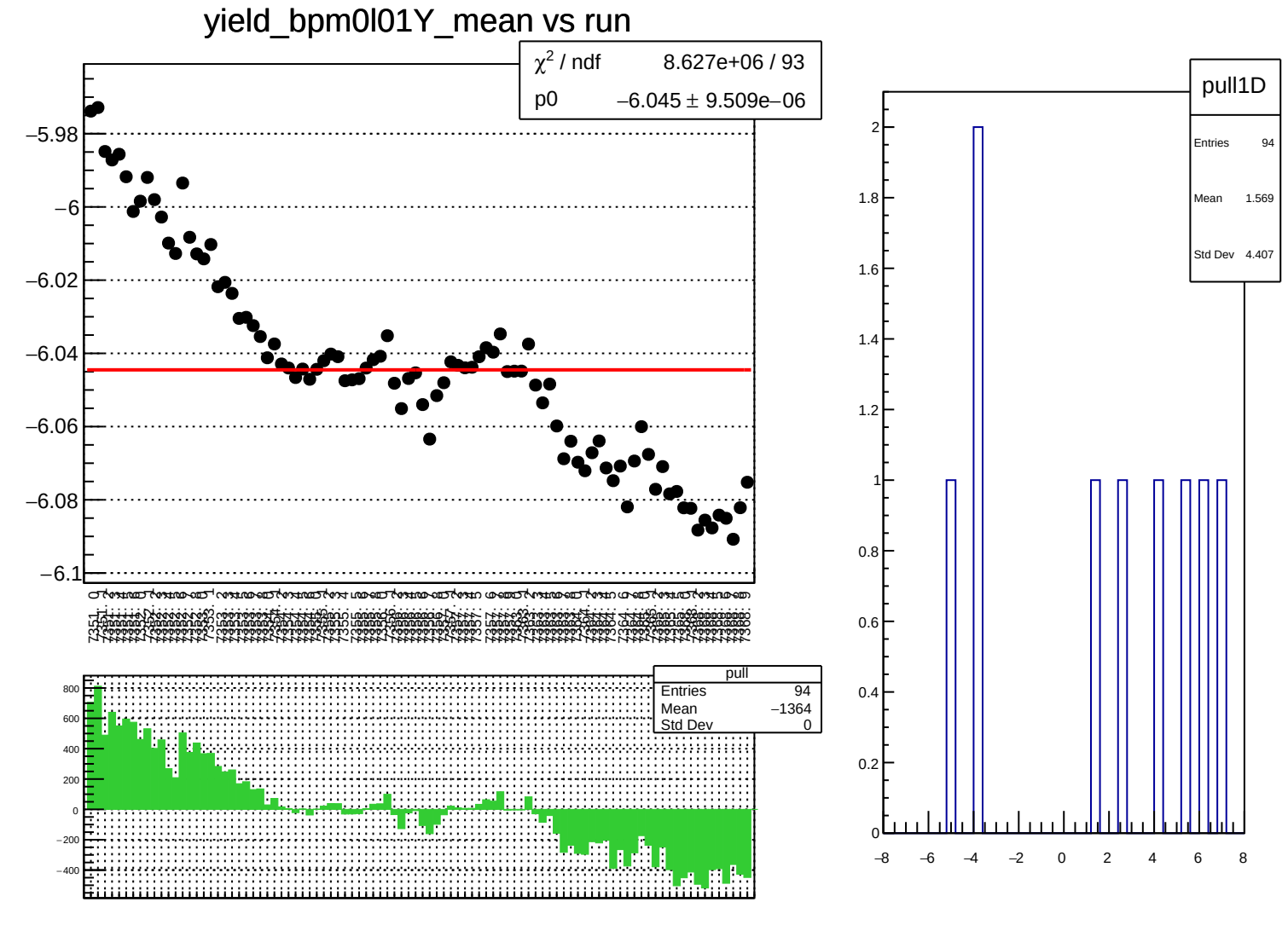

yield_bpm0i01aY_mean vs run
χ² / ndf 2.15e+06 / 93
p0 2.674 ± 3.721e−06
2.7
2.695
2.69
2.685
2.68
2.675
2.67
2.665
2.66
2.655
pull
Entries 94
Mean −1077
Std Dev 0
600
400
200
0
−200
−400
pull1D
Entries 94
Mean 0.6046
Std Dev 3.855
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

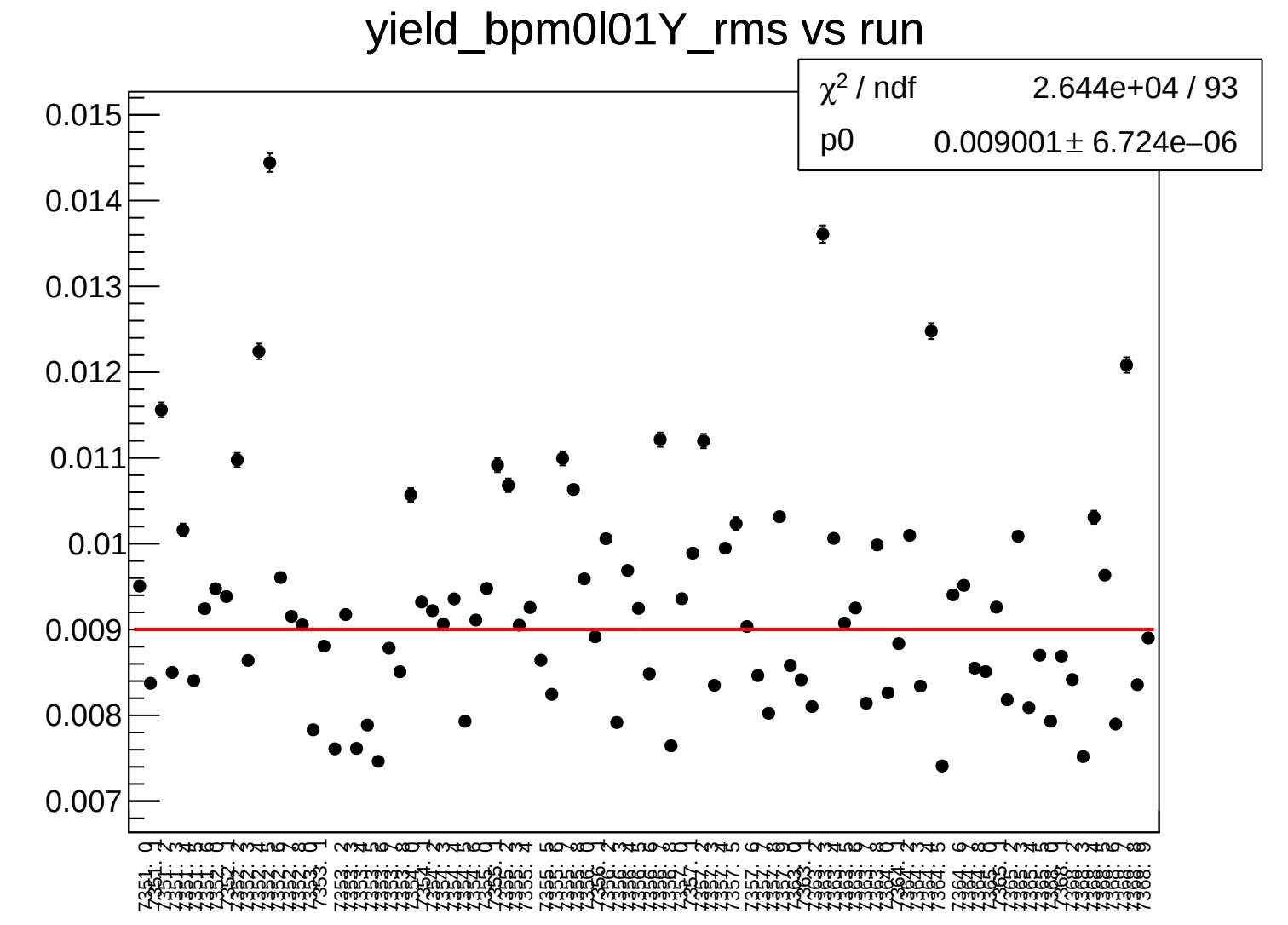

yield_bpm0i01aY_rms vs run
χ² / ndf 4.955e+04 / 93
p0 0.0035 ± 2.631e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003

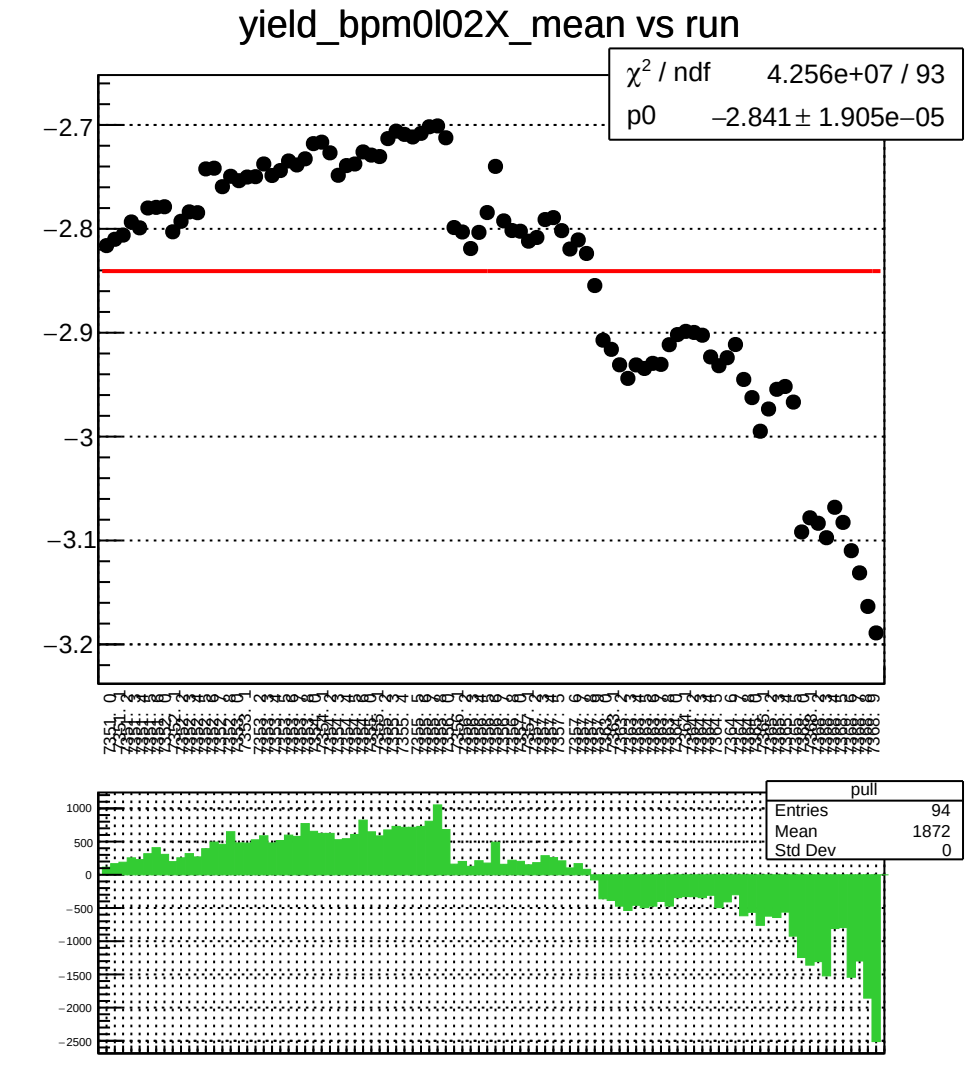

yield_bpm0l01X_mean vs run
χ² / ndf 3.321e+07 / 93
p0 −1.1 ± 8.105e−06
−1.05
−1.1
−1.15
−1.2
−1.25
pull
Entries 94
Mean 1736
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000
−2500

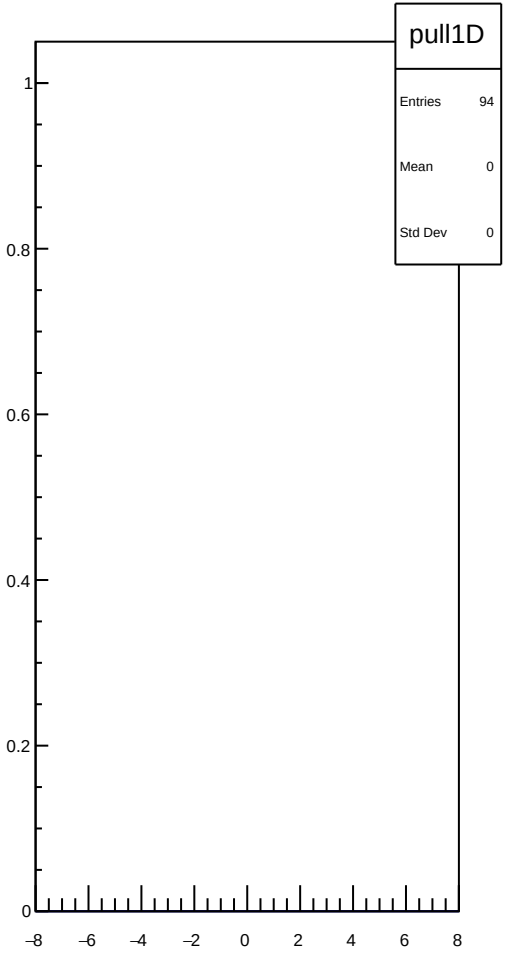

pull1D
Entries 94
Mean 3.884
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

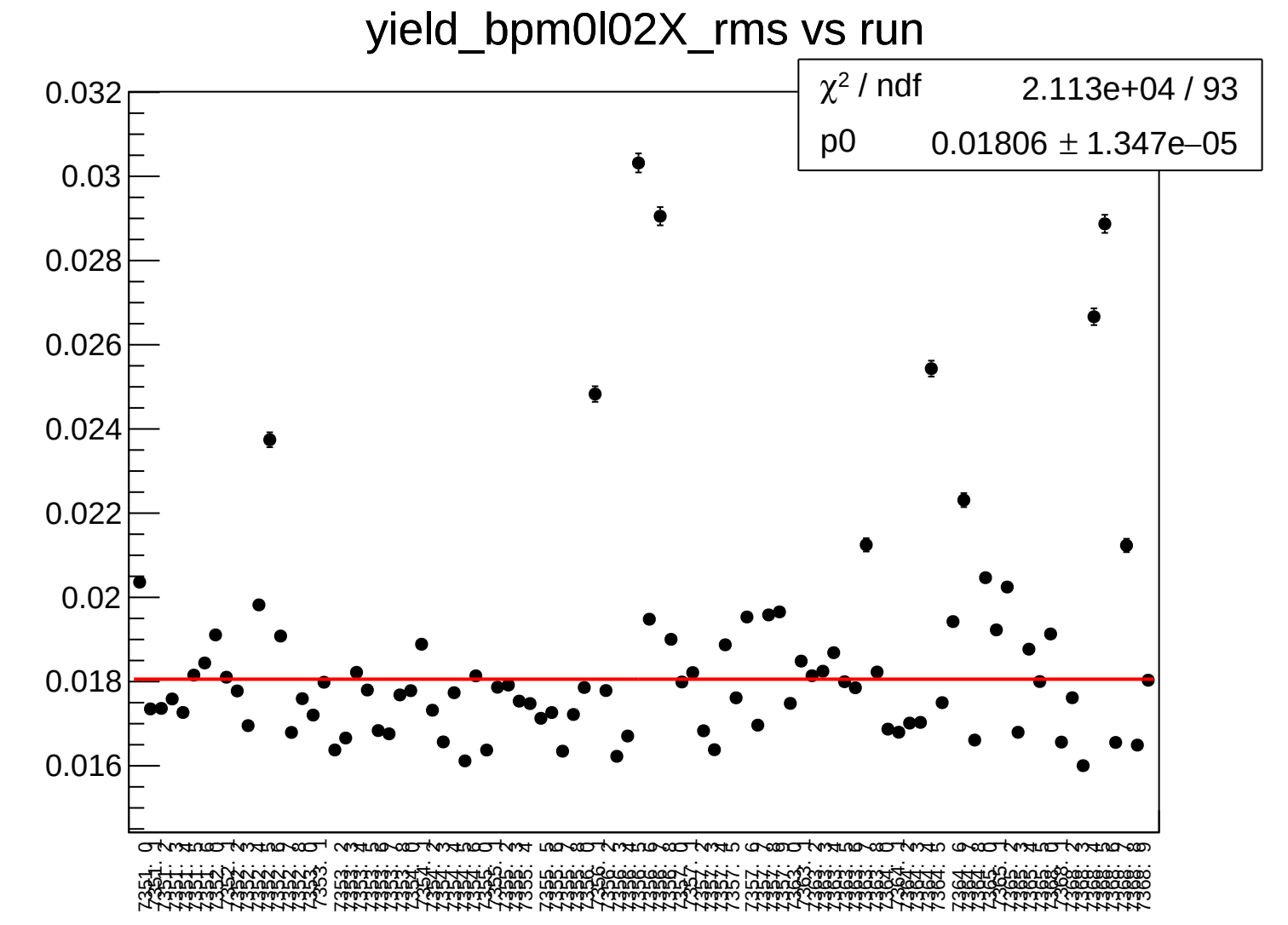

yield_bpm0l01X_rms vs run
χ² / ndf 3.42e+04 / 93
p0 0.007655 ± 5.731e−06
0.016
0.014
0.012
0.01
0.008
0.006

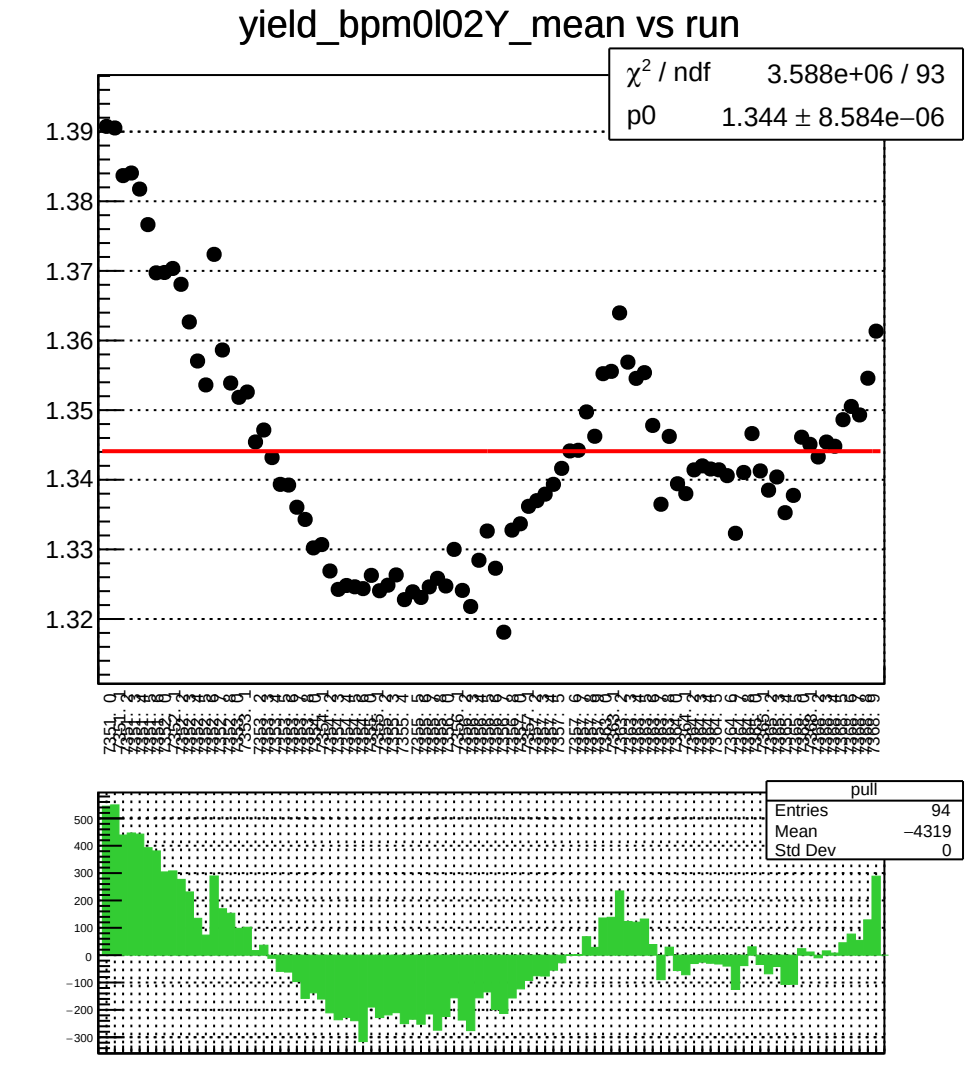

yield_bpm0l01Y_mean vs run
χ² / ndf 8.627e+06 / 93
p0 −6.045 ± 9.509e−06
−5.98
−6
−6.02
−6.04
−6.06
−6.08
−6.1
pull
Entries 94
Mean −1364
Std Dev 0
800
600
400
200
0
−200
−400
pull1D
Entries 94
Mean 1.569
Std Dev 4.407
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

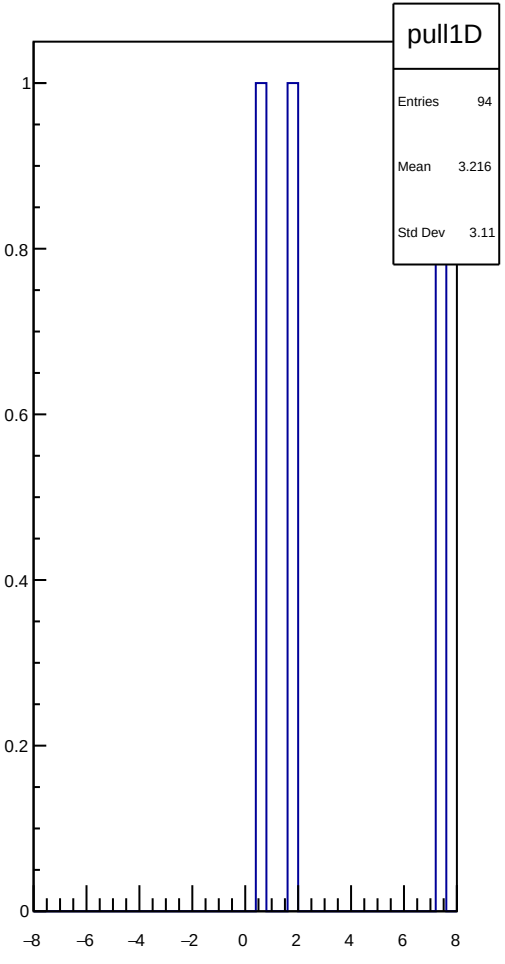

yield_bpm0l01Y_rms vs run
χ² / ndf 2.644e+04 / 93
p0 0.009001 ± 6.724e−06
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007

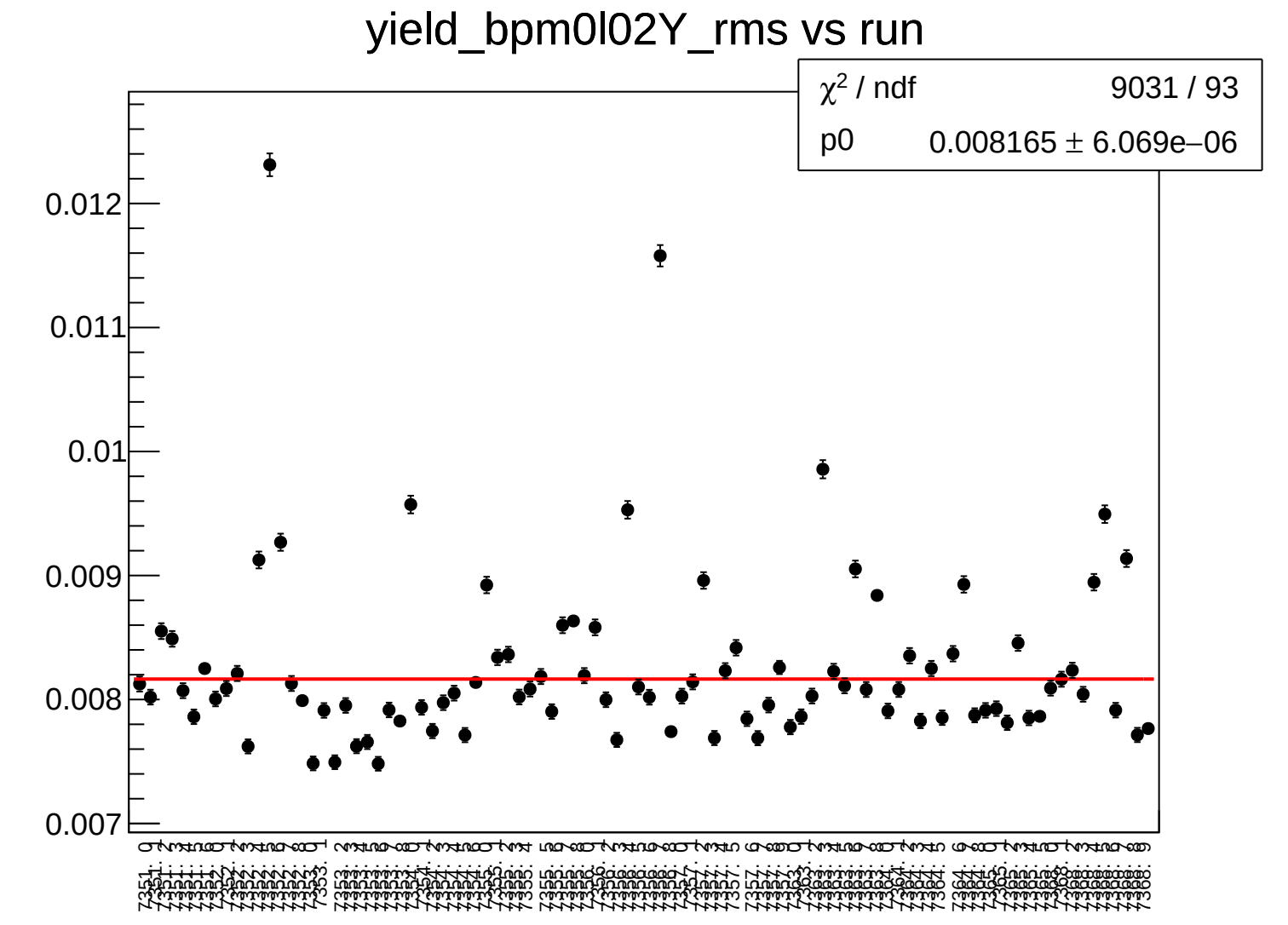

yield_bpm0l02X_mean vs run
χ² / ndf 4.256e+07 / 93
p0 −2.841 ± 1.905e−05
−2.7
−2.8
−2.9
−3
−3.1
−3.2
pull
Entries 94
Mean 1872
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000
−2500

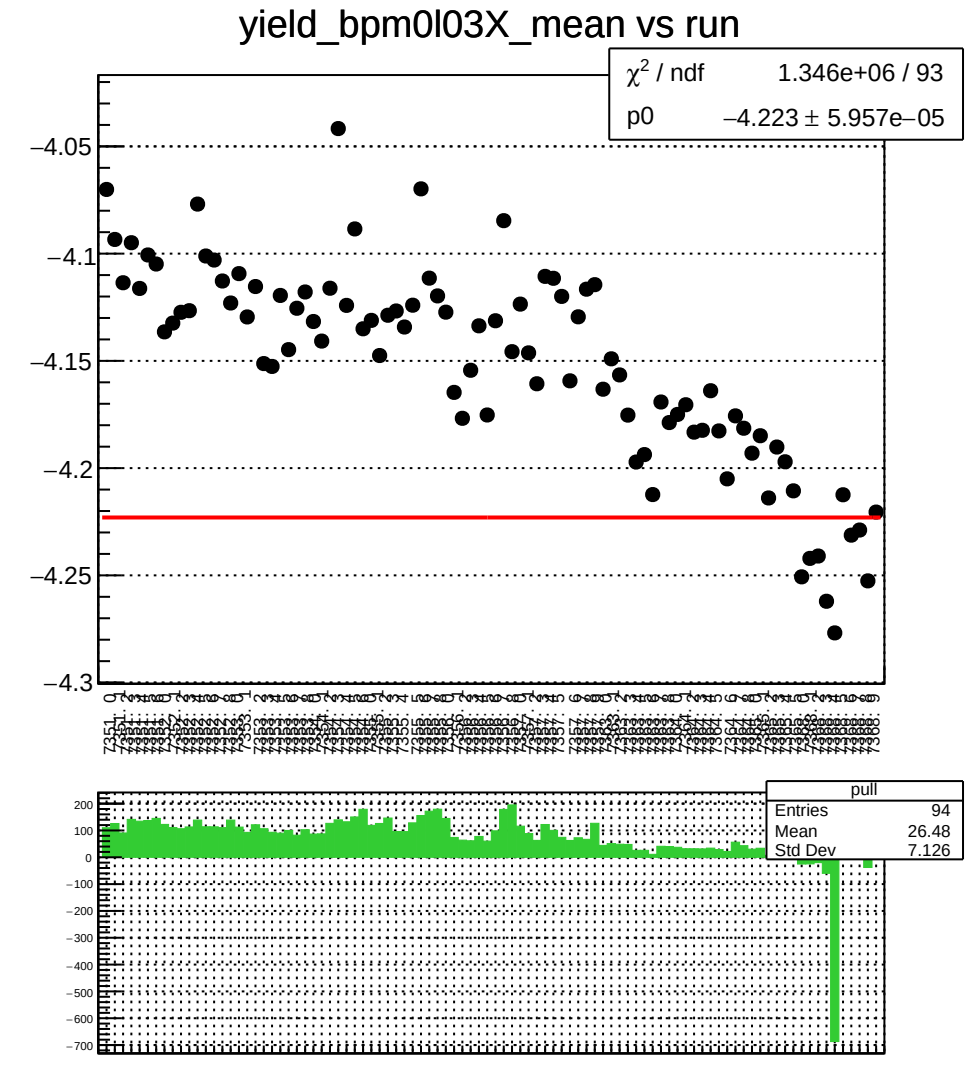

pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

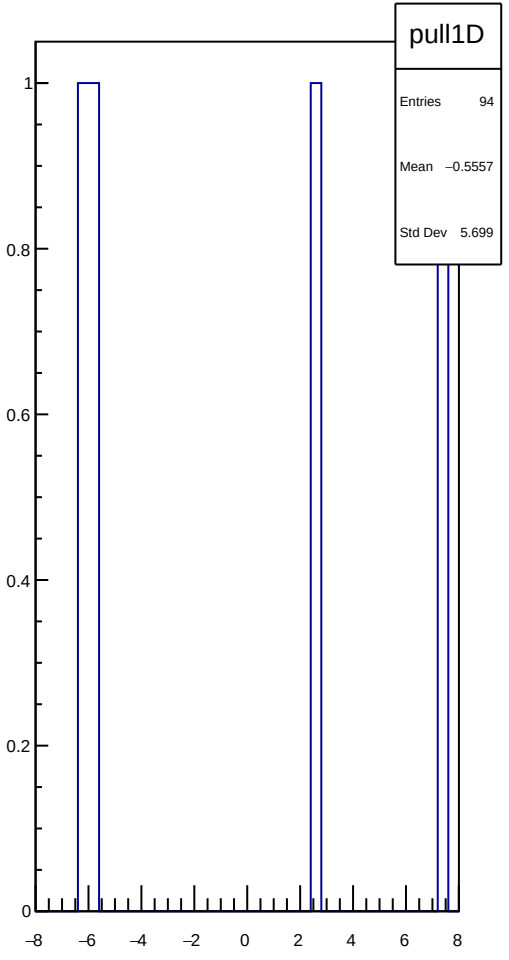

yield_bpm0l02X_rms vs run
χ² / ndf 2.113e+04 / 93
p0 0.01806 ± 1.347e−05
0.032
0.03
0.028
0.026
0.024
0.022
0.02
0.018
0.016

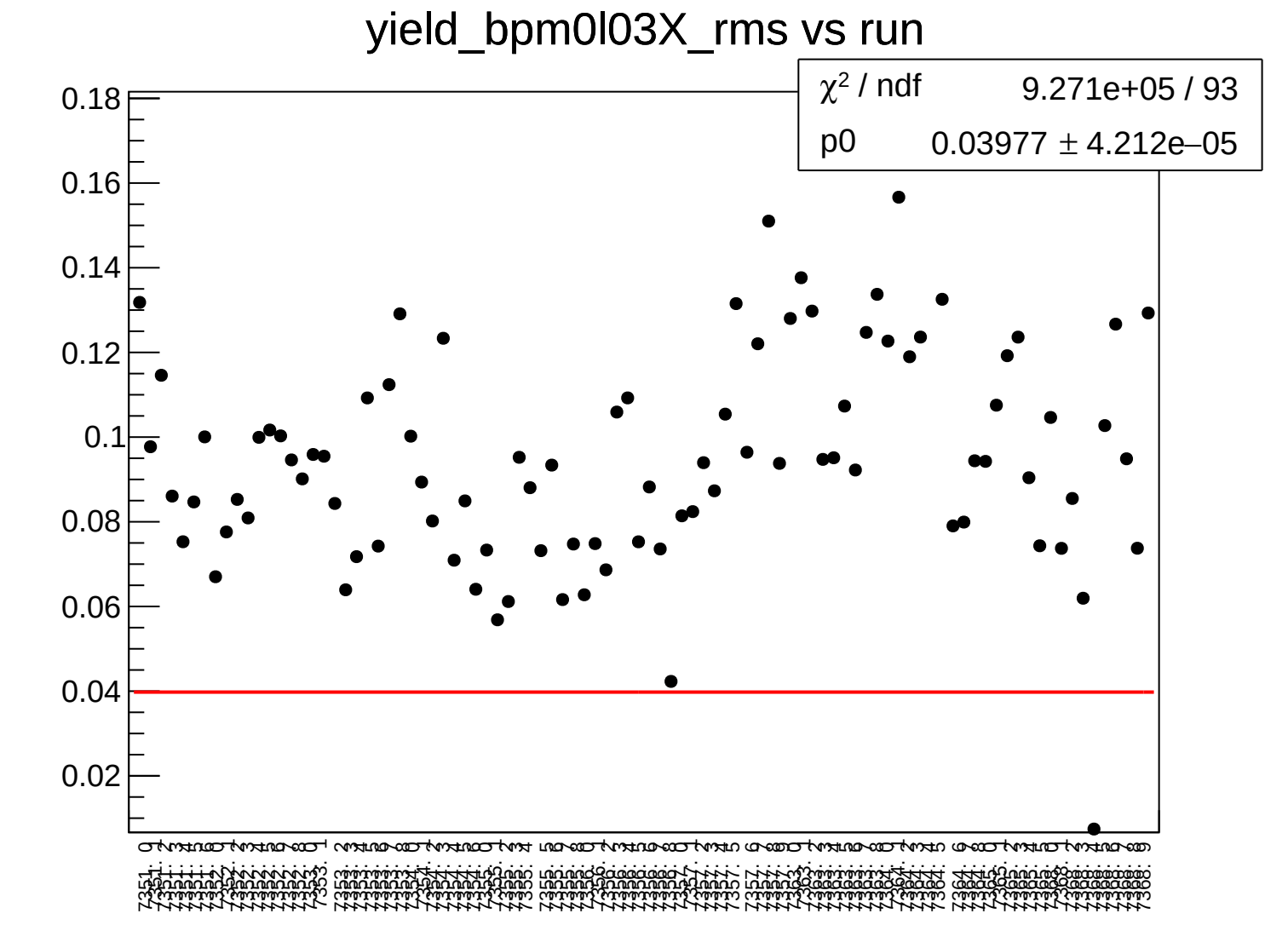

yield_bpm0l02Y_mean vs run
χ² / ndf 3.588e+06 / 93
p0 1.344 ± 8.584e−06
1.39
1.38
1.37
1.36
1.35
1.34
1.33
1.32
pull
Entries 94
Mean −4319
Std Dev 0
500
400
300
200
100
0
−100
−200
−300

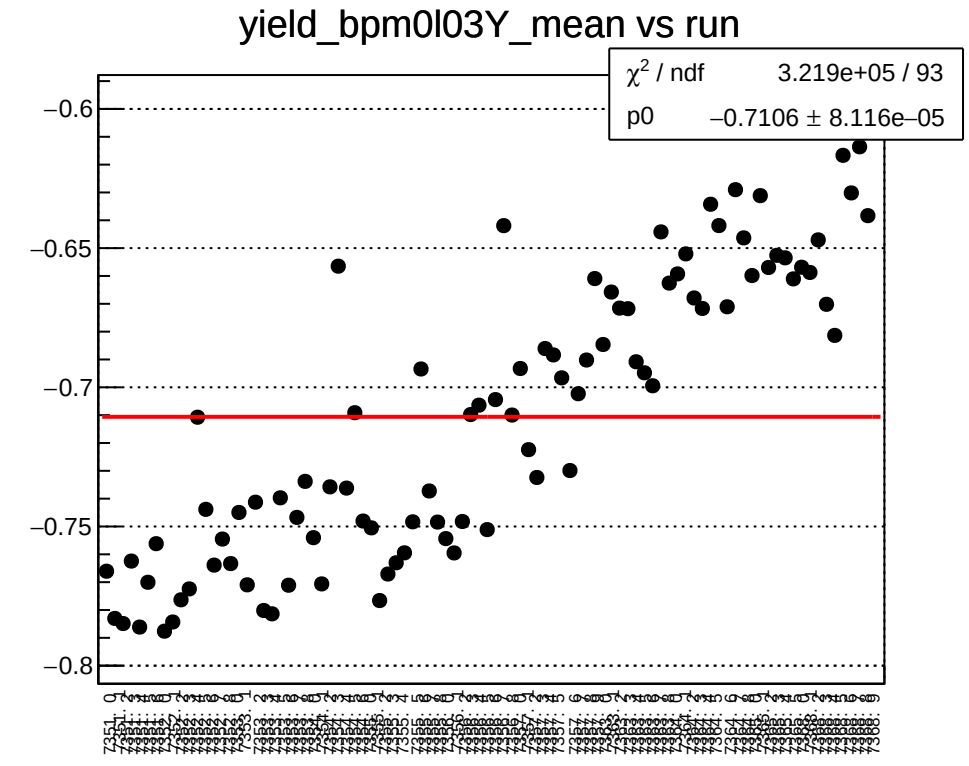

pull1D
Entries 94
Mean 3.216
Std Dev 3.11
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

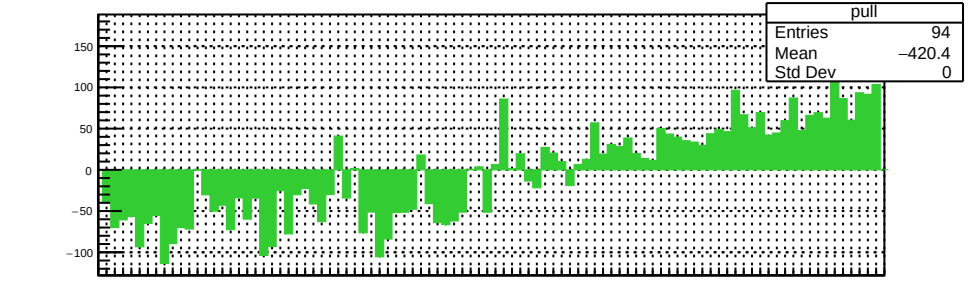

yield_bpm0l02Y_rms vs run
χ^2 / ndf 9031 / 93
p0 0.008165 ± 6.069e−06
0.012
0.011
0.01
0.009
0.008
0.007

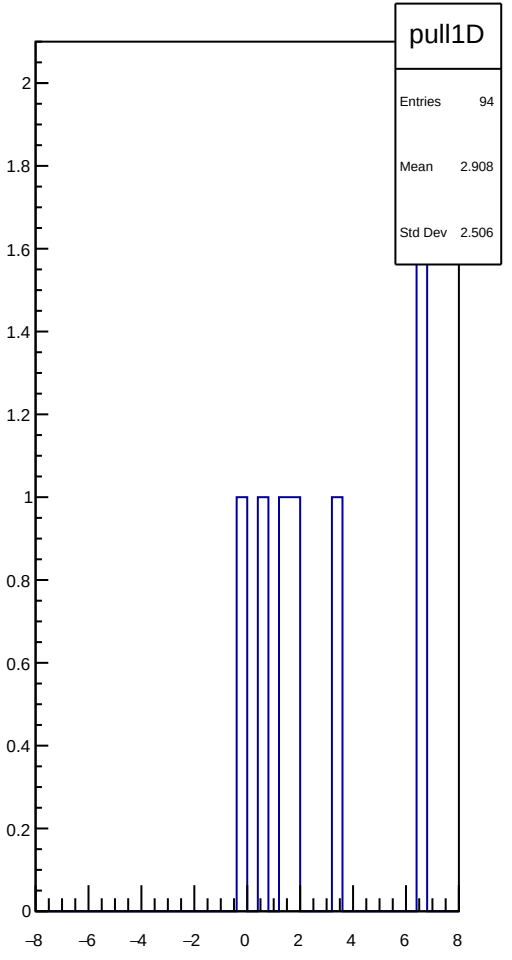

yield_bpm0l03X_mean vs run
χ² / ndf 1.346e+06 / 93
p0 −4.223 ± 5.957e−05
−4.05
−4.1
−4.15
−4.2
−4.25
−4.3
pull
Entries 94
Mean 26.48
Std Dev 7.126
200
100
0
−100
−200
−300
−400
−500
−600
−700

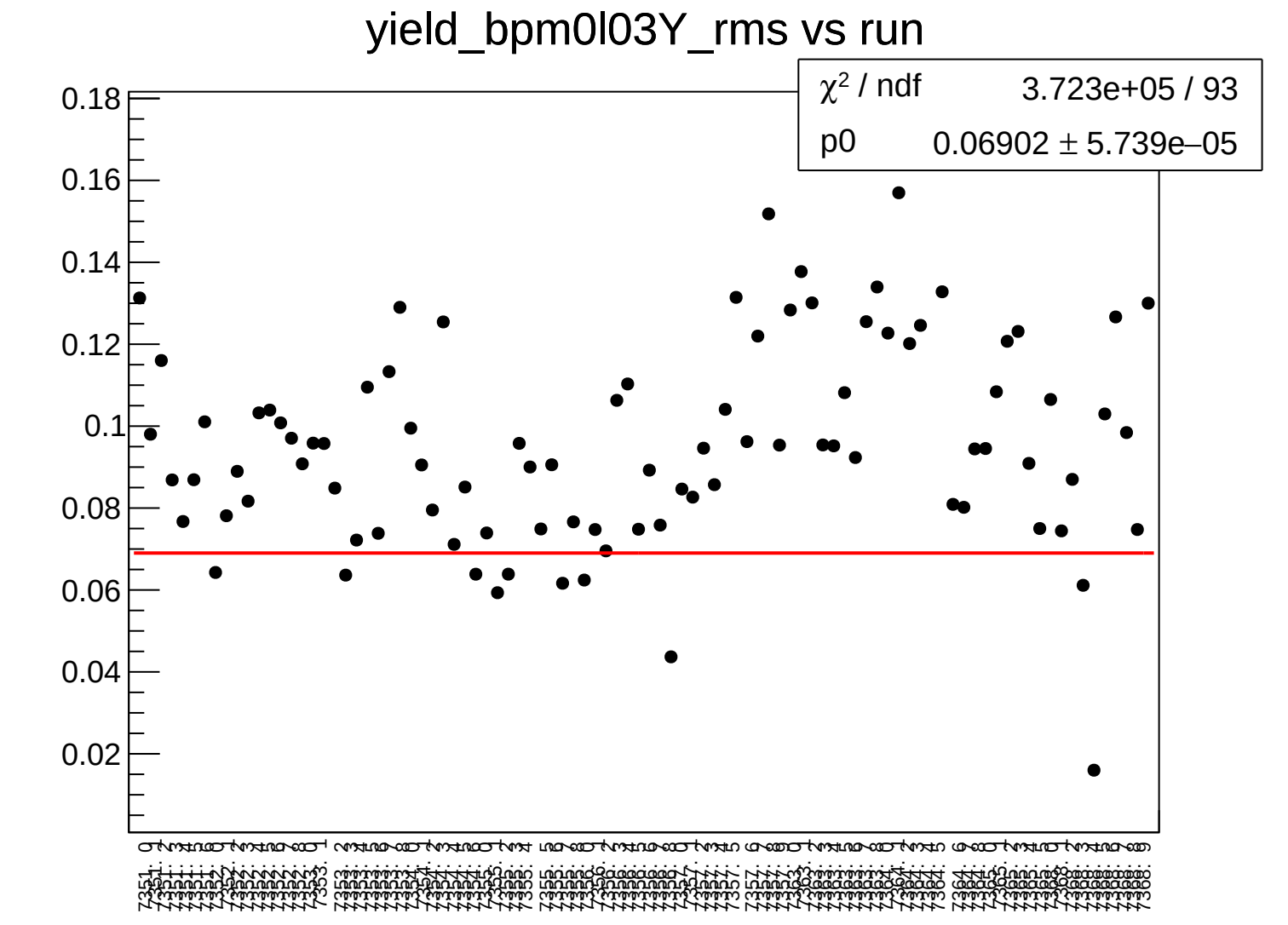

pull1D
Entries 94
Mean −0.5557
Std Dev 5.699
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

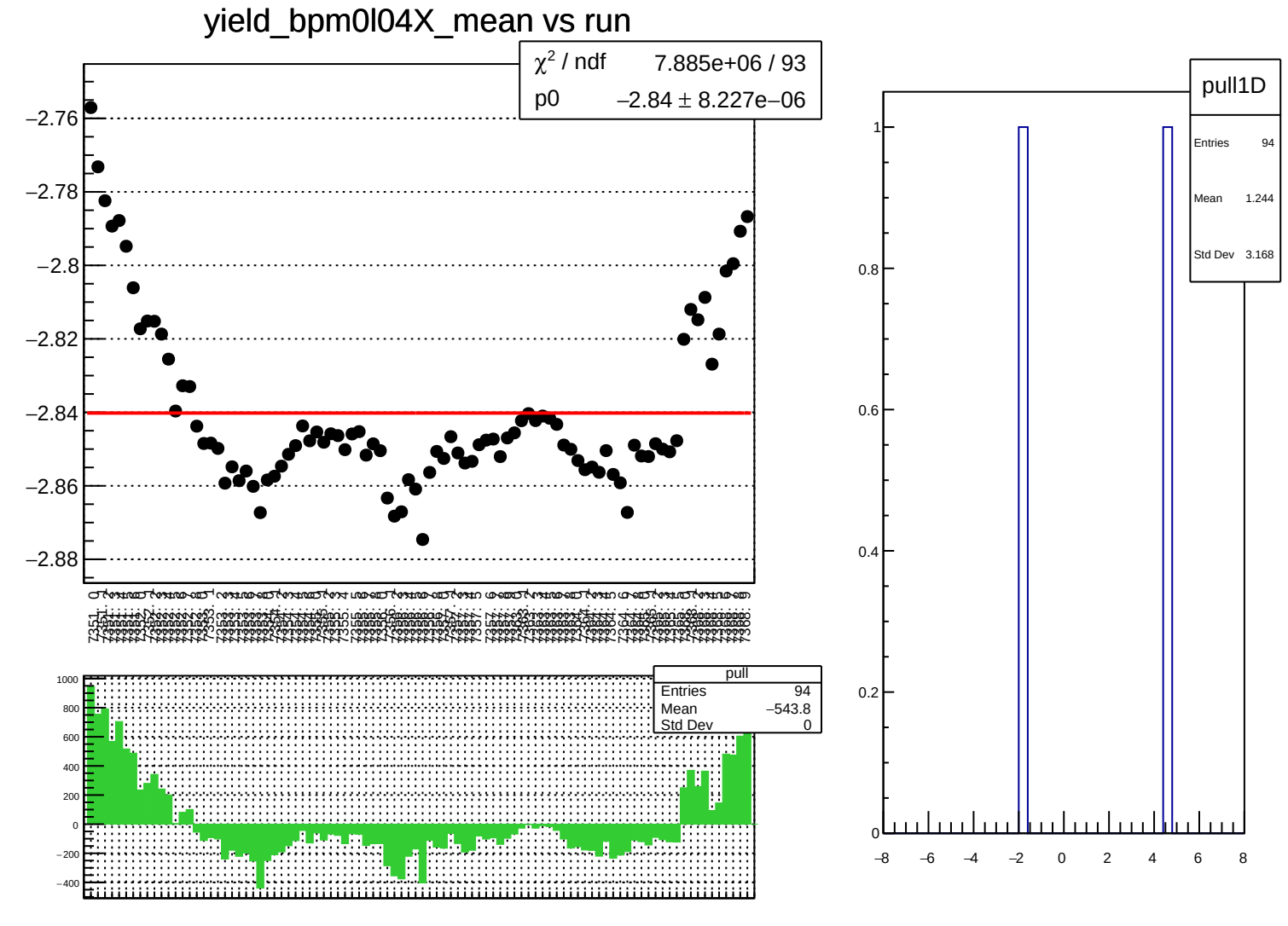

yield_bpm0l03X_rms vs run
χ² / ndf 9.271e+05 / 93
p0 0.03977 ± 4.212e–05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

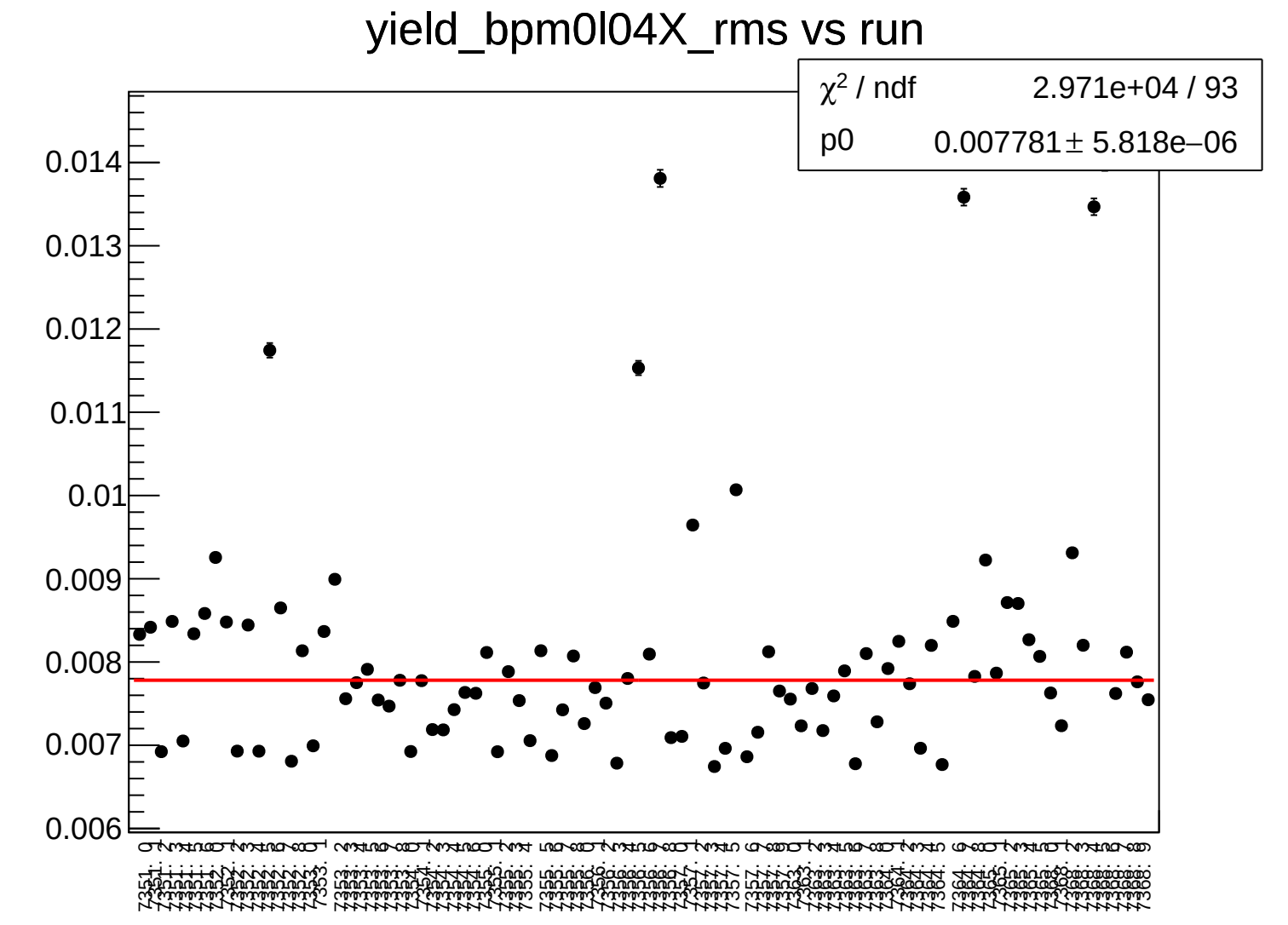

yield_bpm0l03Y_mean vs run
χ² / ndf 3.219e+05 / 93
p0 −0.7106 ± 8.116e−05
−0.6
−0.65
−0.7
−0.75
−0.8

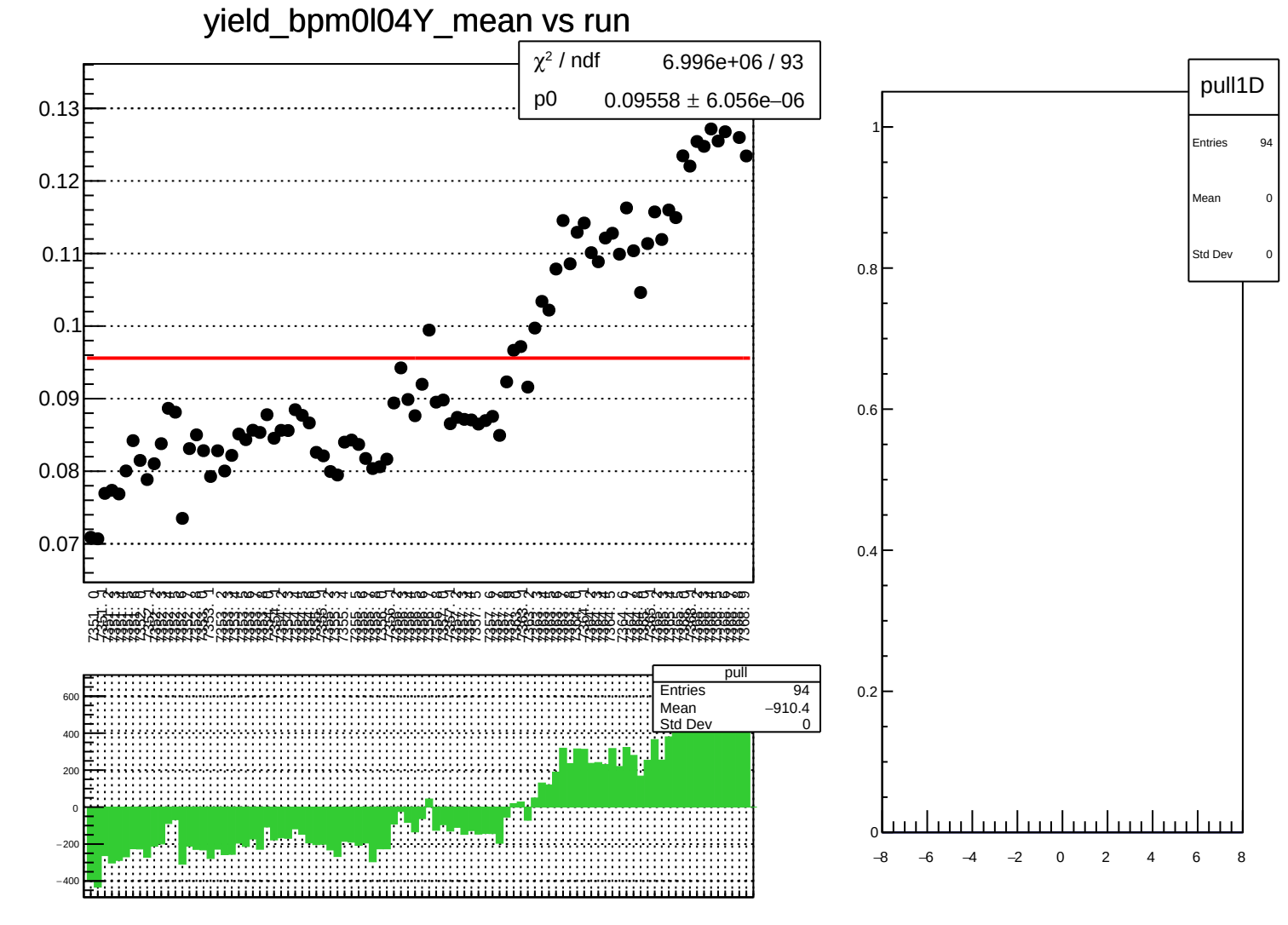

pull
Entries 94
Mean −420.4
Std Dev 0
150
100
50
0
−50
−100

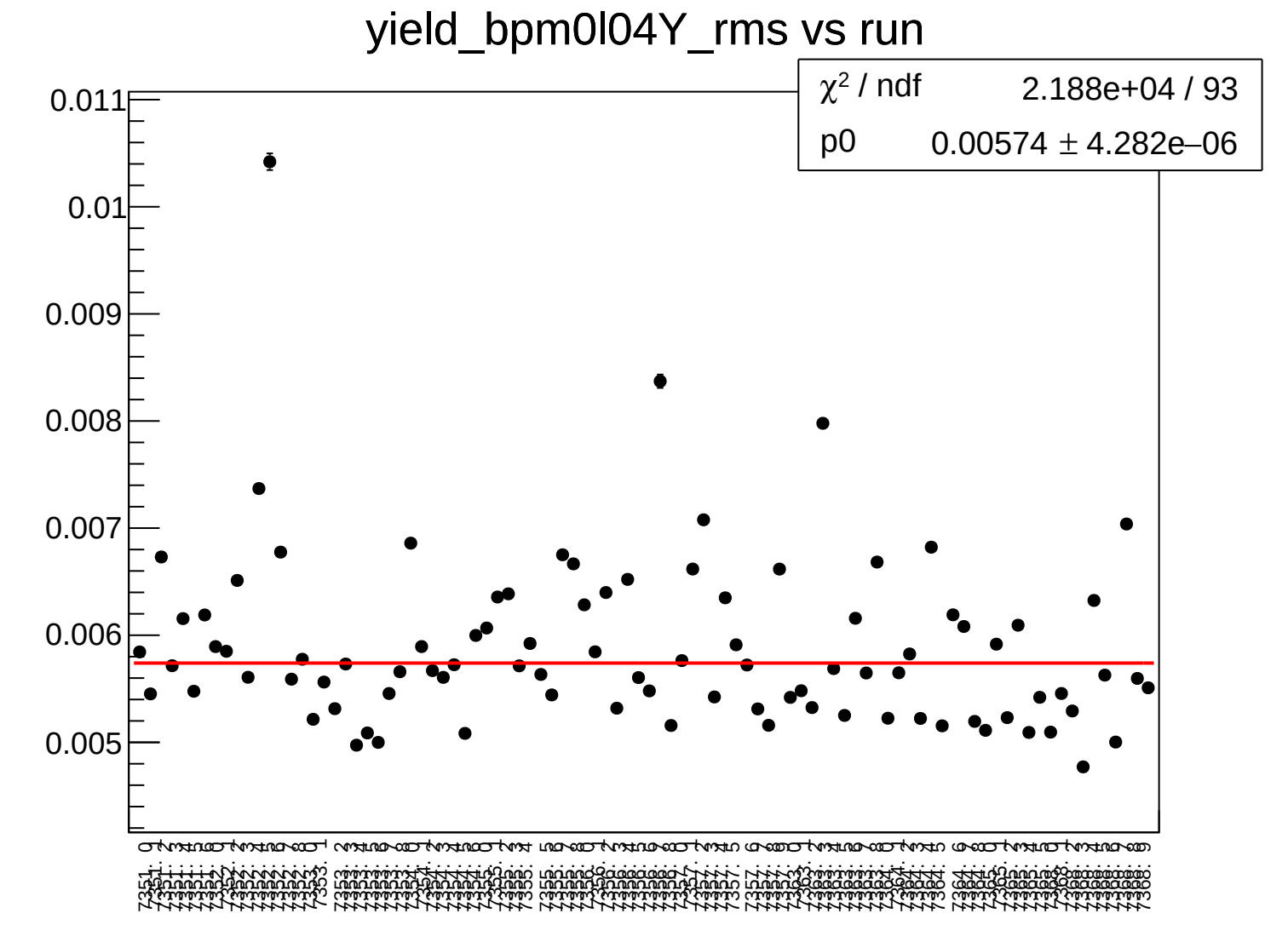

pull1D
Entries 94
Mean 2.908
Std Dev 2.506
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

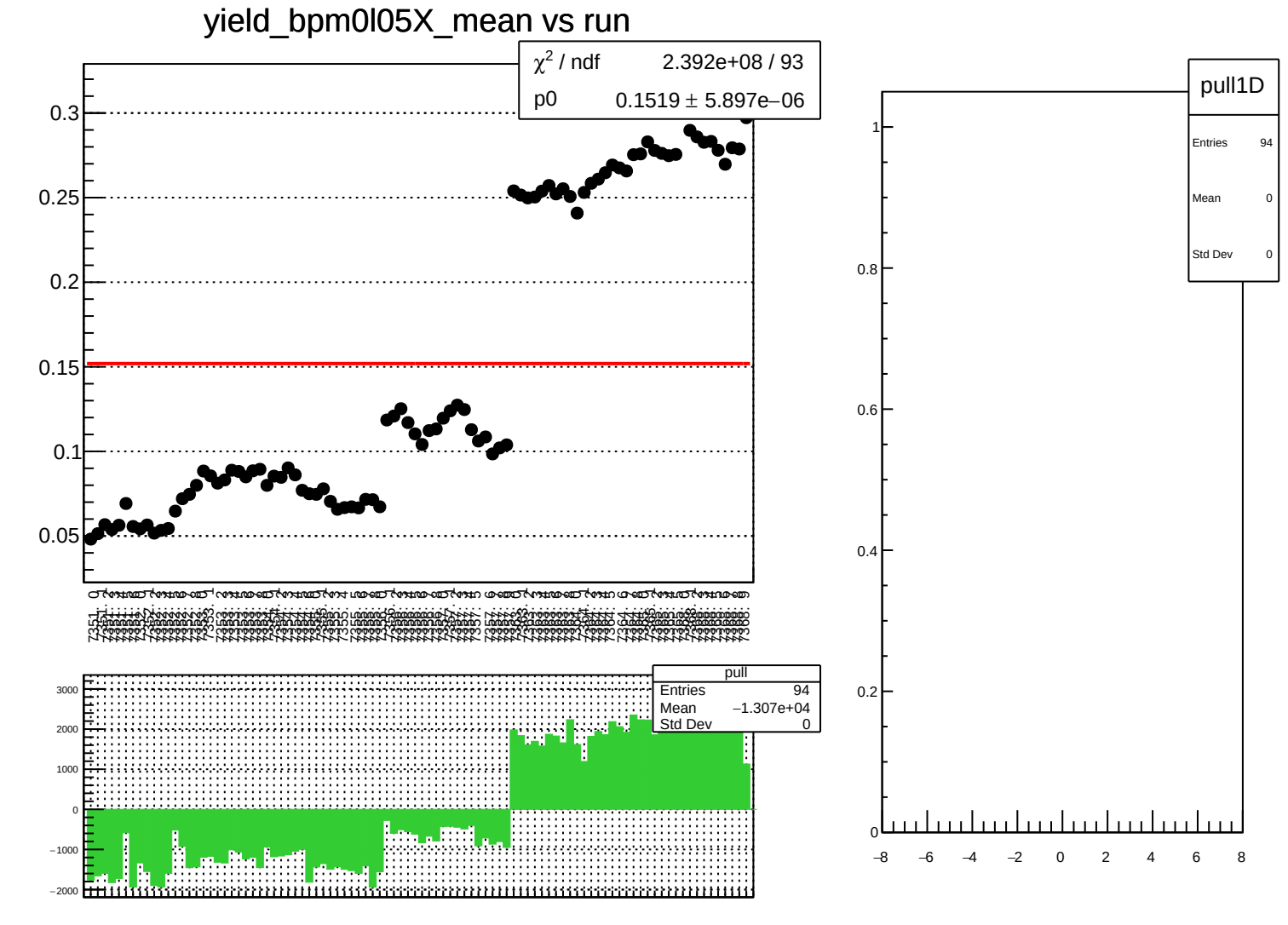

yield_bpm0l03Y_rms vs run
χ² / ndf 3.723e+05 / 93
p0 0.06902 ± 5.739e–05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

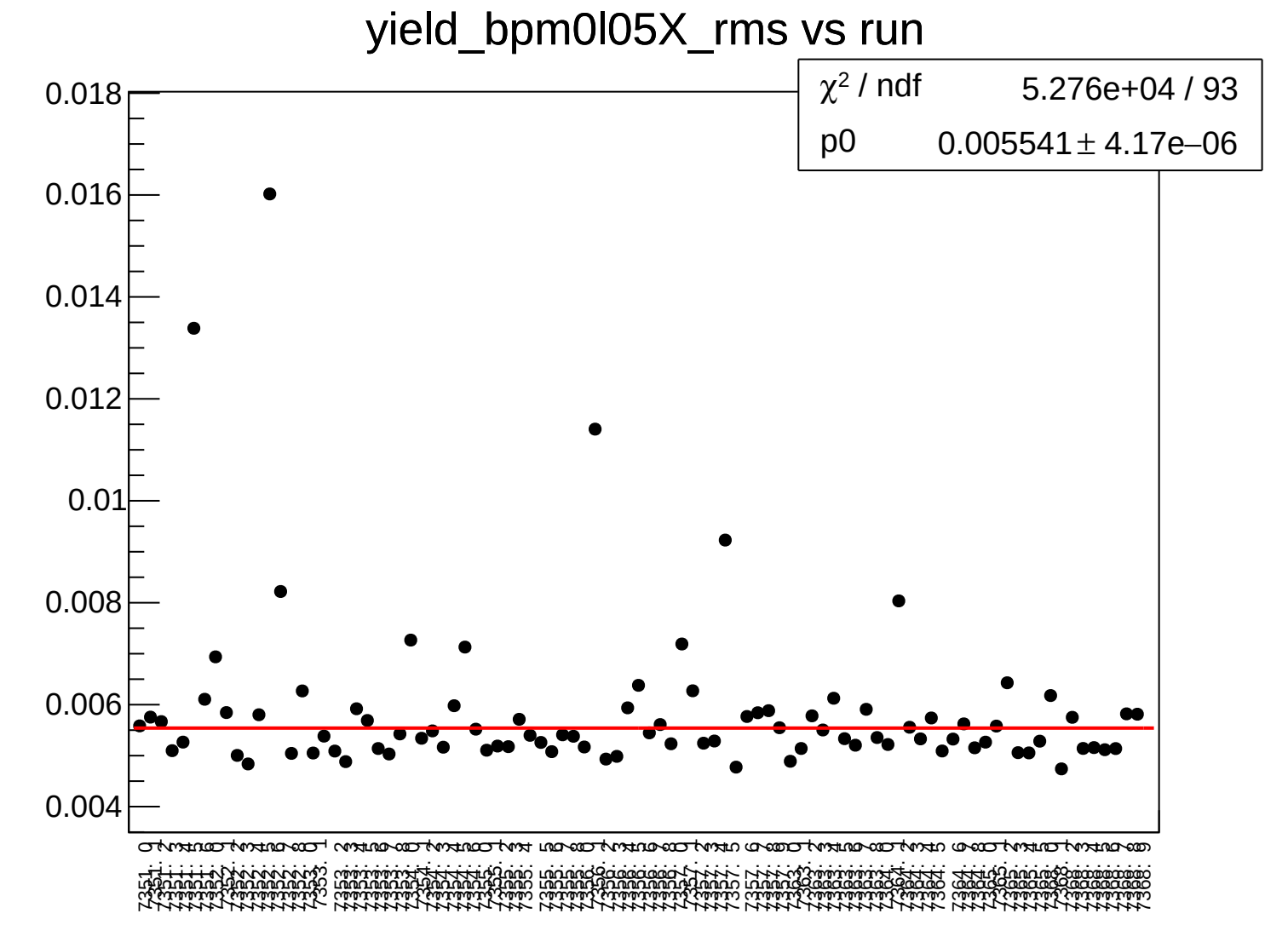

yield_bpm0l04X_mean vs run
χ² / ndf 7.885e+06 / 93
p0 −2.84 ± 8.227e−06
−2.76
−2.78
−2.8
−2.82
−2.84
−2.86
−2.88
pull
Entries 94
Mean −543.8
Std Dev 0
1000
800
600
400
200
0
−200
−400
pull1D
Entries 94
Mean 1.244
Std Dev 3.168
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

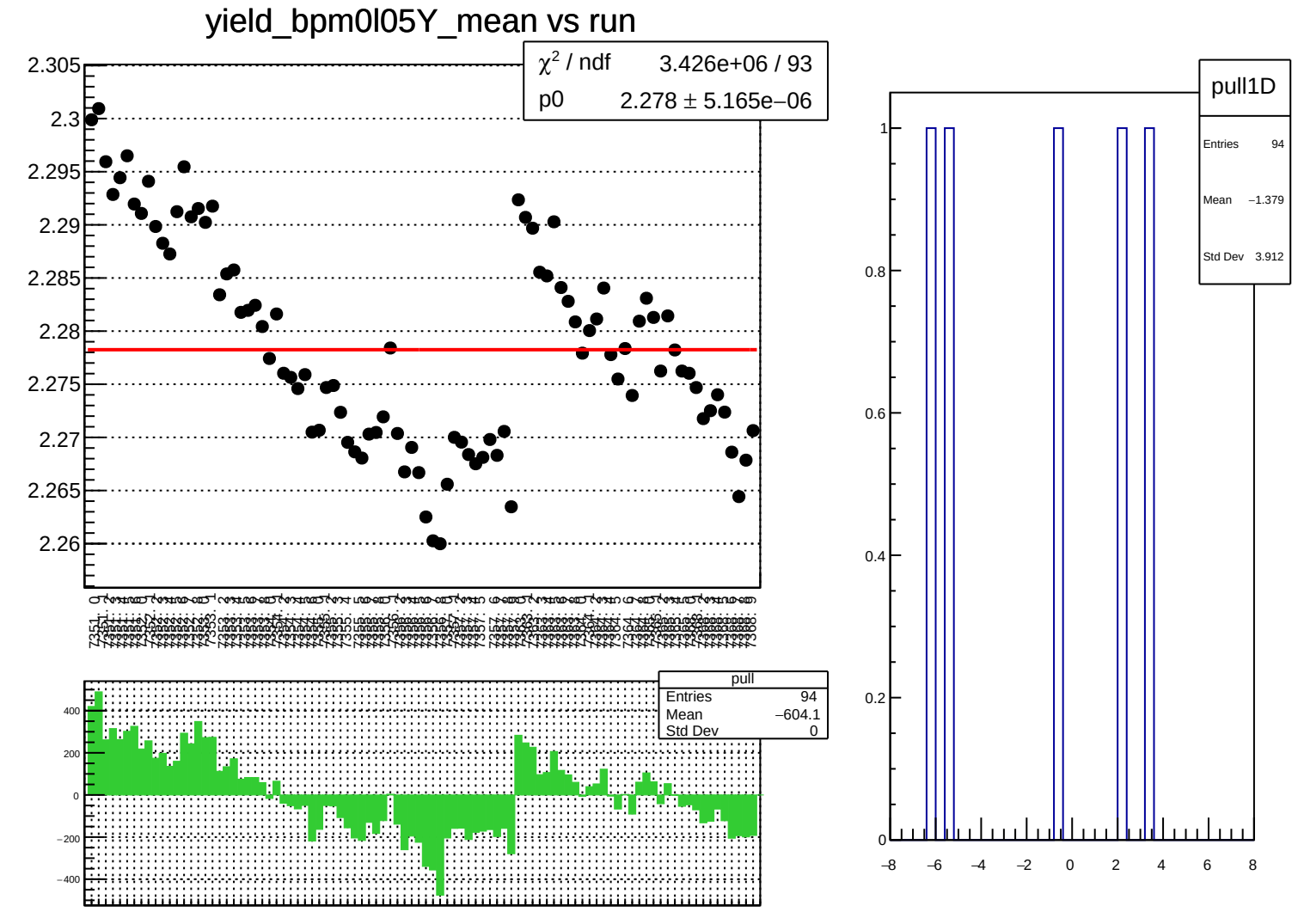

yield_bpm0l04X_rms vs run
χ² / ndf 2.971e+04 / 93
p0 0.007781 ± 5.818e−06
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006

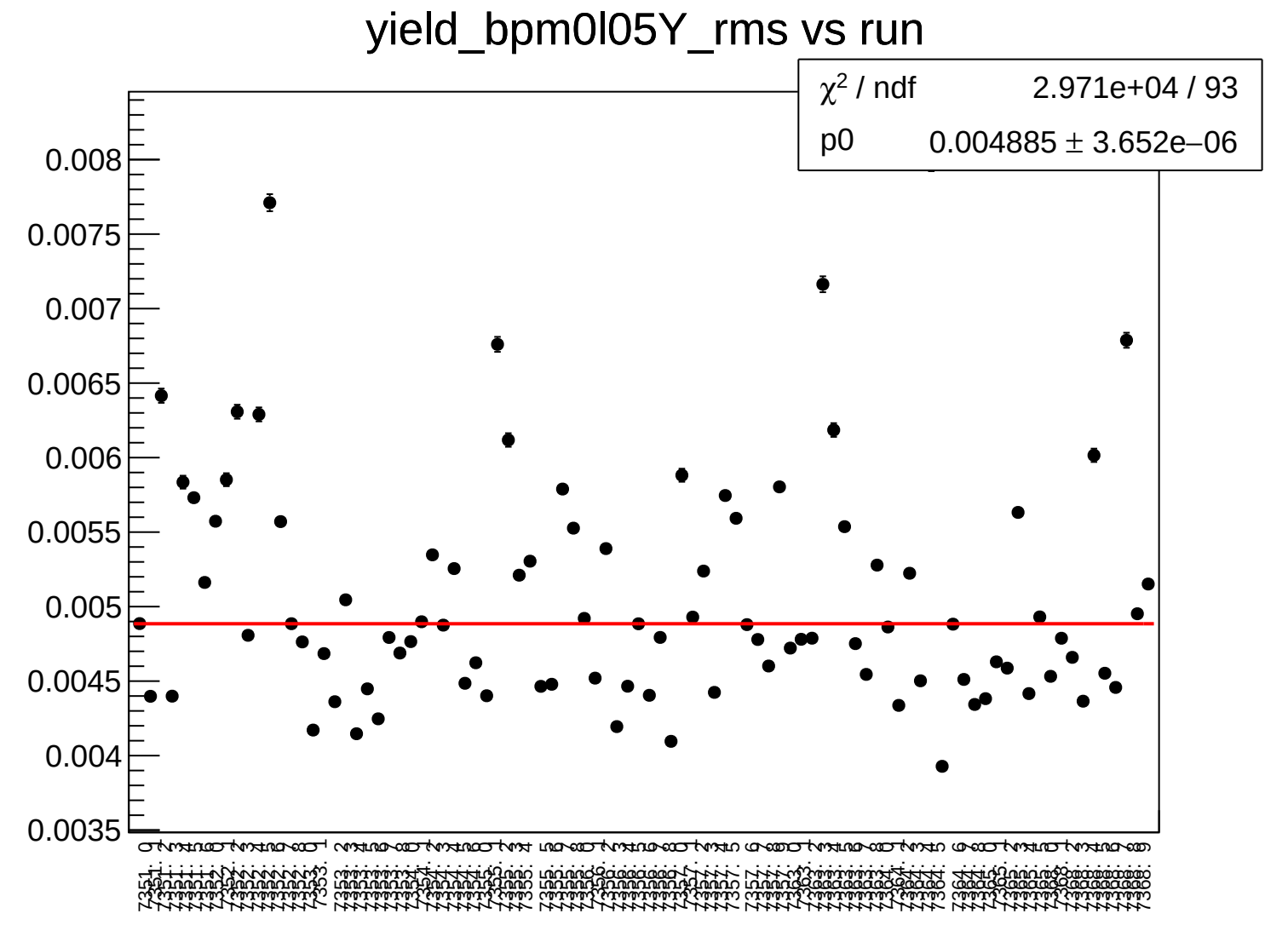

yield_bpm0l04Y_mean vs run
χ² / ndf 6.996e+06 / 93
p0 0.09558 ± 6.056e–06
0.13
0.12
0.11
0.1
0.09
0.08
0.07
pull
Entries 94
Mean –910.4
Std Dev 0
600
400
200
0
–200
–400
pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

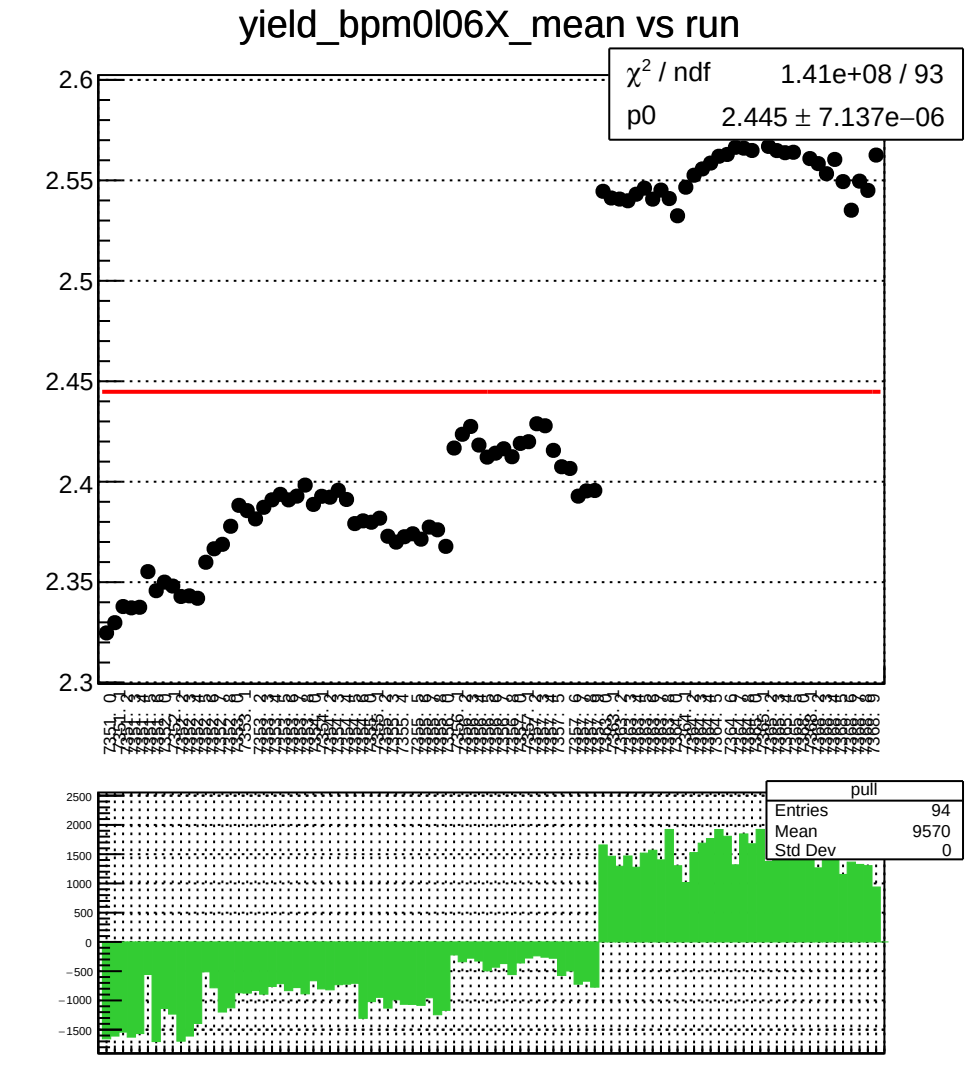

yield_bpm0l04Y_rms vs run
χ² / ndf 2.188e+04 / 93
p0 0.00574 ± 4.282e–06
0.011
0.01
0.009
0.008
0.007
0.006
0.005

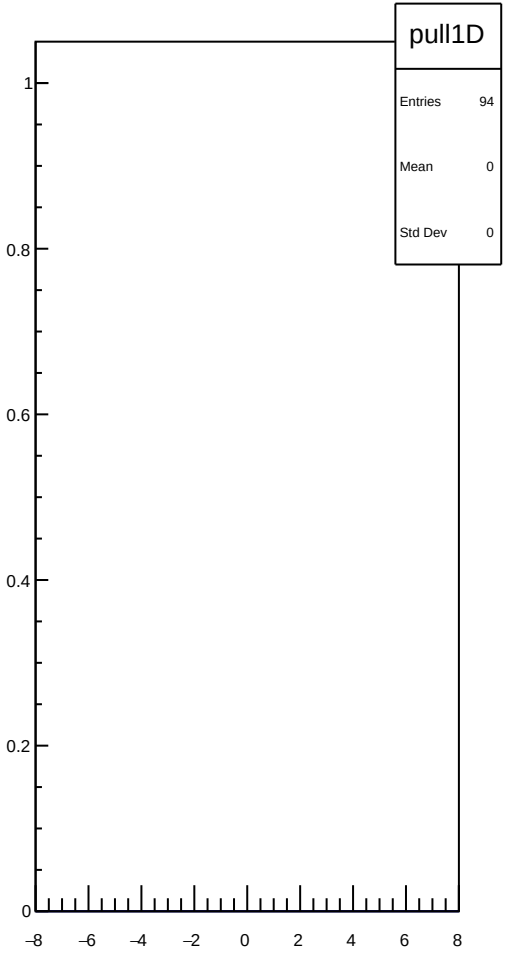

yield_bpm0l05X_mean vs run
χ² / ndf 2.392e+08 / 93
p0 0.1519 ± 5.897e−06
pull
Entries 94
Mean −1.307e+04
Std Dev 0
pull1D
Entries 94
Mean 0
Std Dev 0

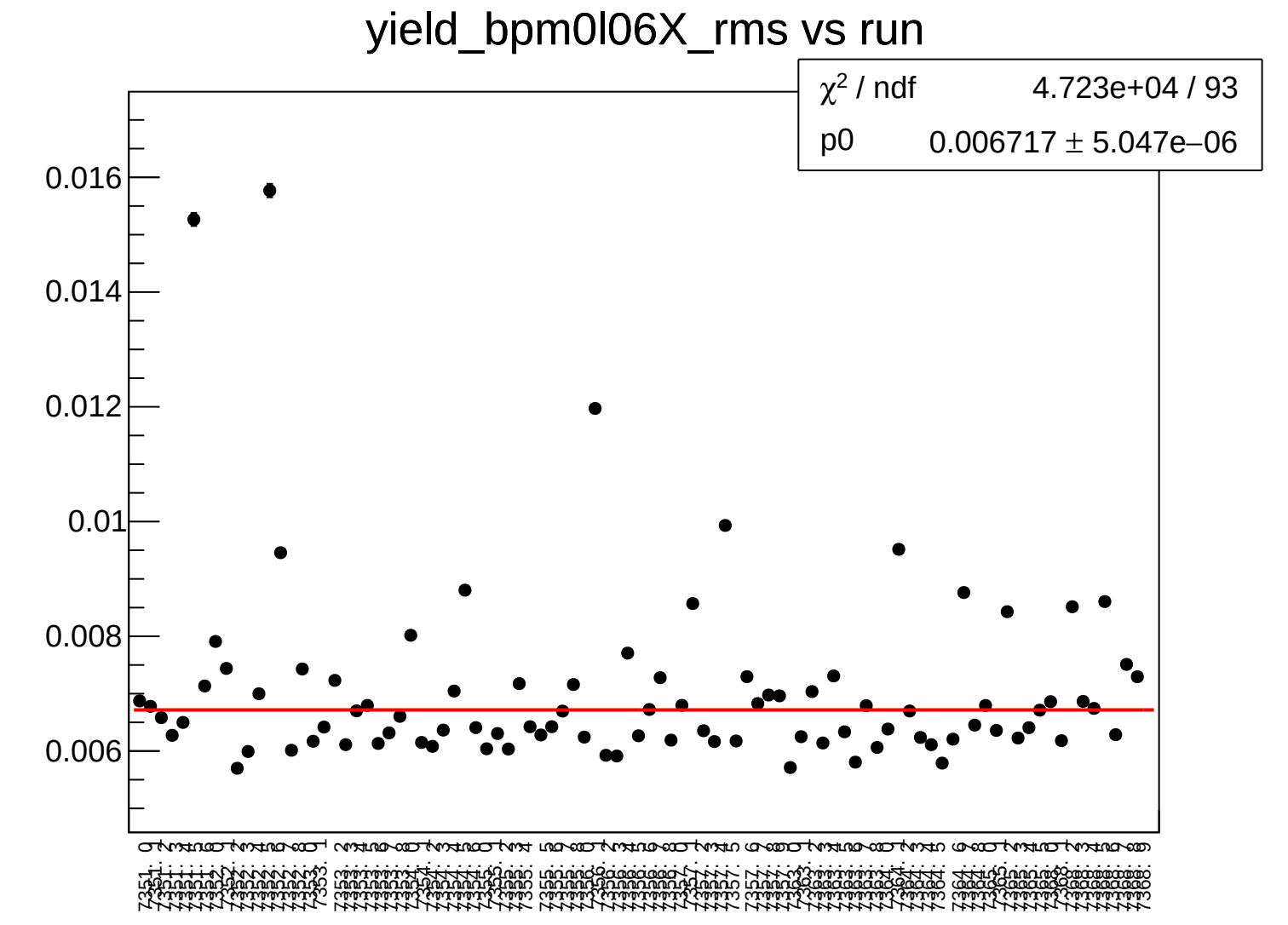

yield_bpm0l05X_rms vs run
χ² / ndf 5.276e+04 / 93
p0 0.005541 ± 4.17e–06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

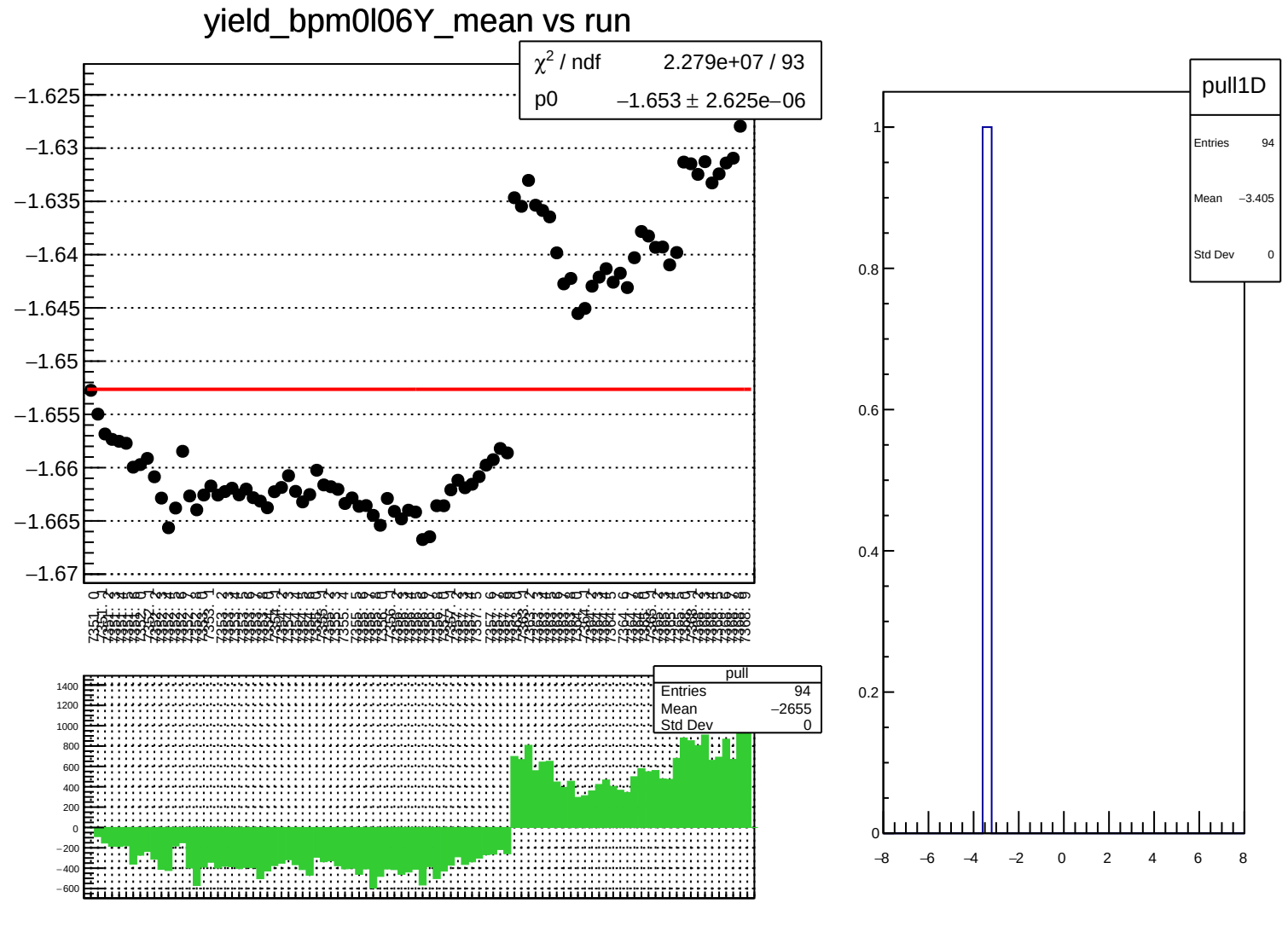

yield_bpm0l05Y_mean vs run
χ² / ndf 3.426e+06 / 93
p0 2.278 ± 5.165e−06
2.305
2.3
2.295
2.29
2.285
2.28
2.275
2.27
2.265
2.26
pull
Entries 94
Mean −604.1
Std Dev 0
400
200
0
−200
−400
pull1D
Entries 94
Mean −1.379
Std Dev 3.912
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

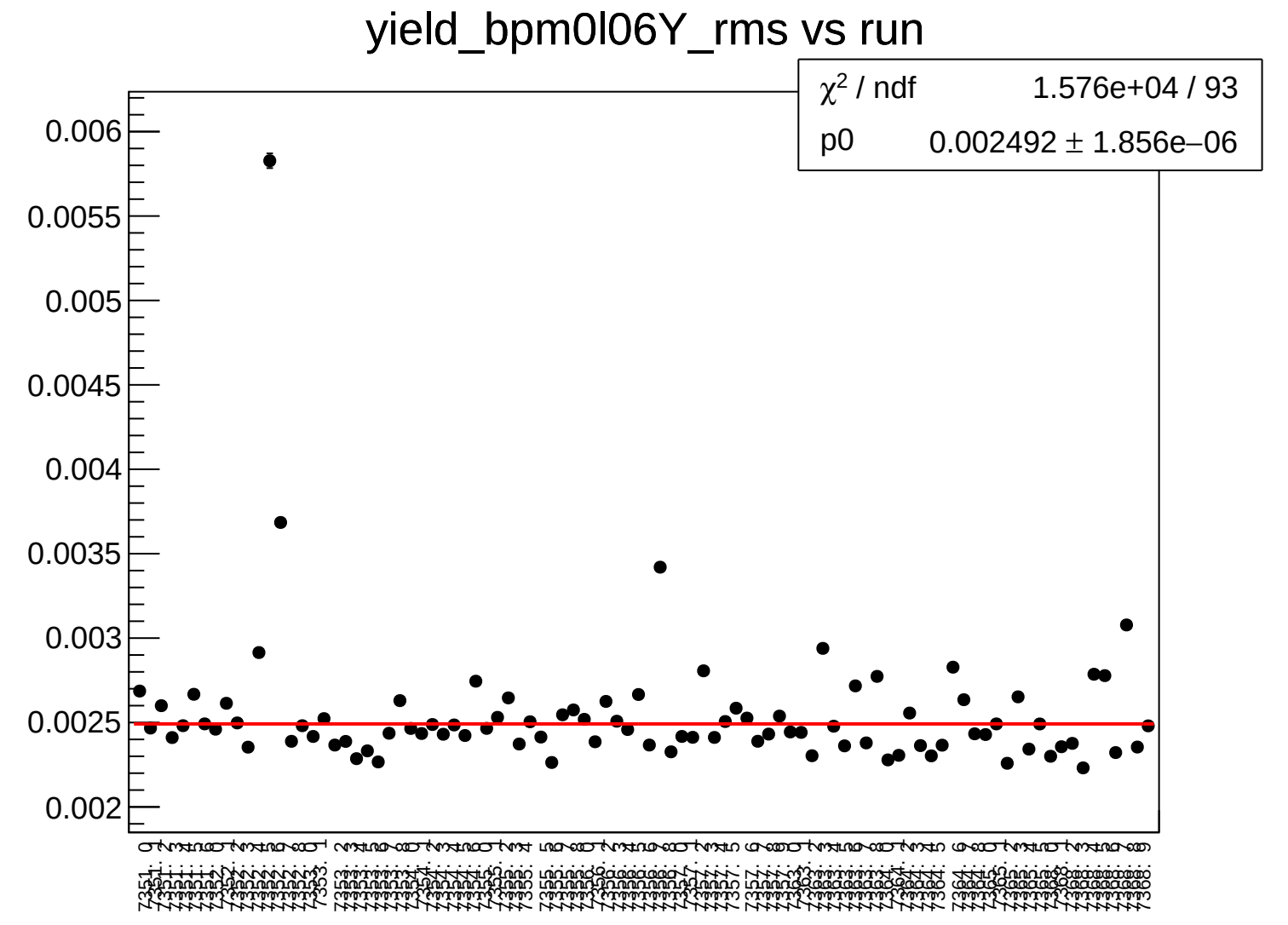

yield_bpm0l05Y_rms vs run
χ² / ndf 2.971e+04 / 93
p0 0.004885 ± 3.652e−06
0.008
0.0075
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035

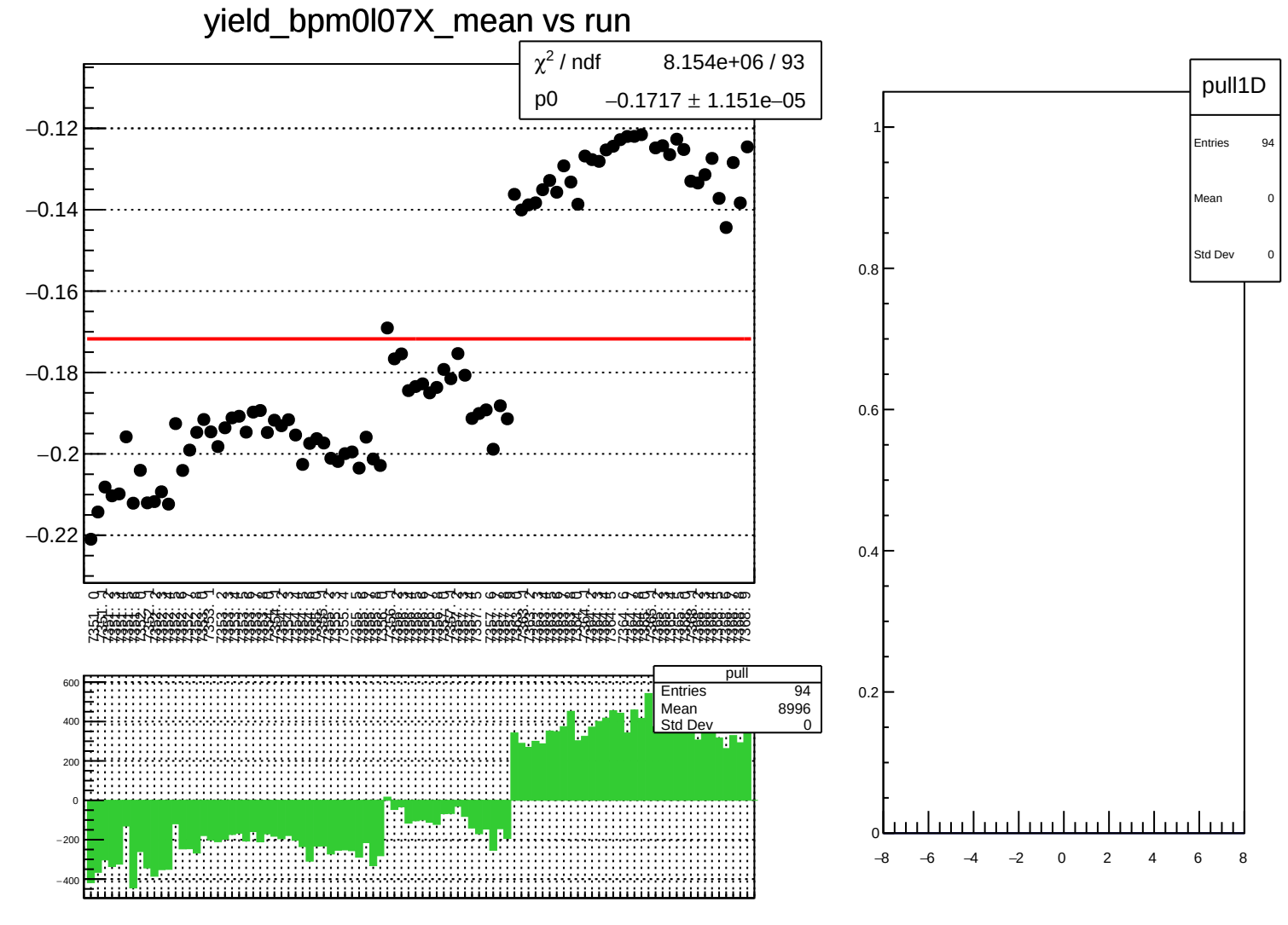

yield_bpm0l06X_mean vs run
χ² / ndf 1.41e+08 / 93
p0 2.445 ± 7.137e−06
2.6
2.55
2.5
2.45
2.4
2.35
2.3
pull
Entries 94
Mean 9570
Std Dev 0
2500
2000
1500
1000
500
0
−500
−1000
−1500

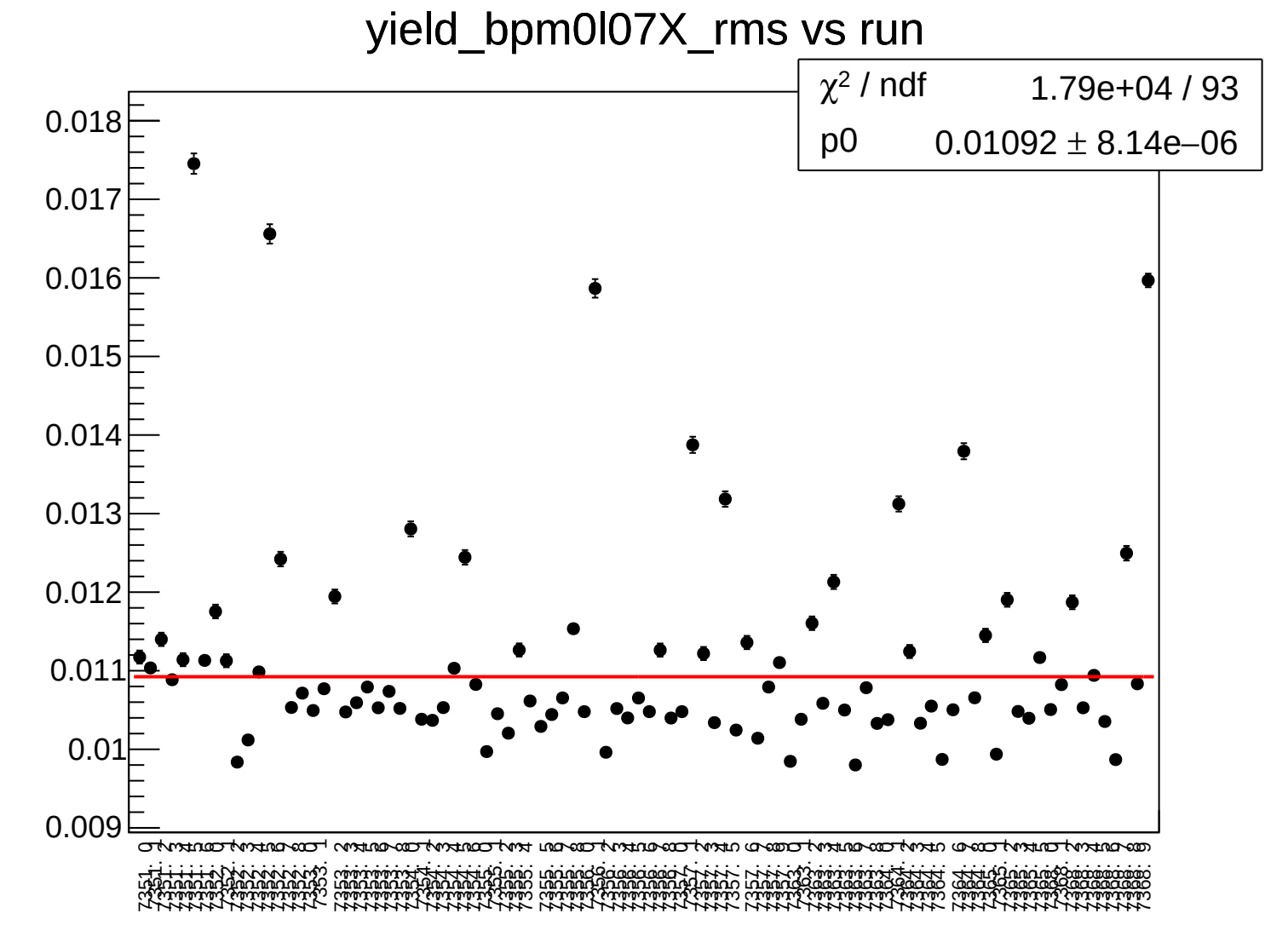

pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

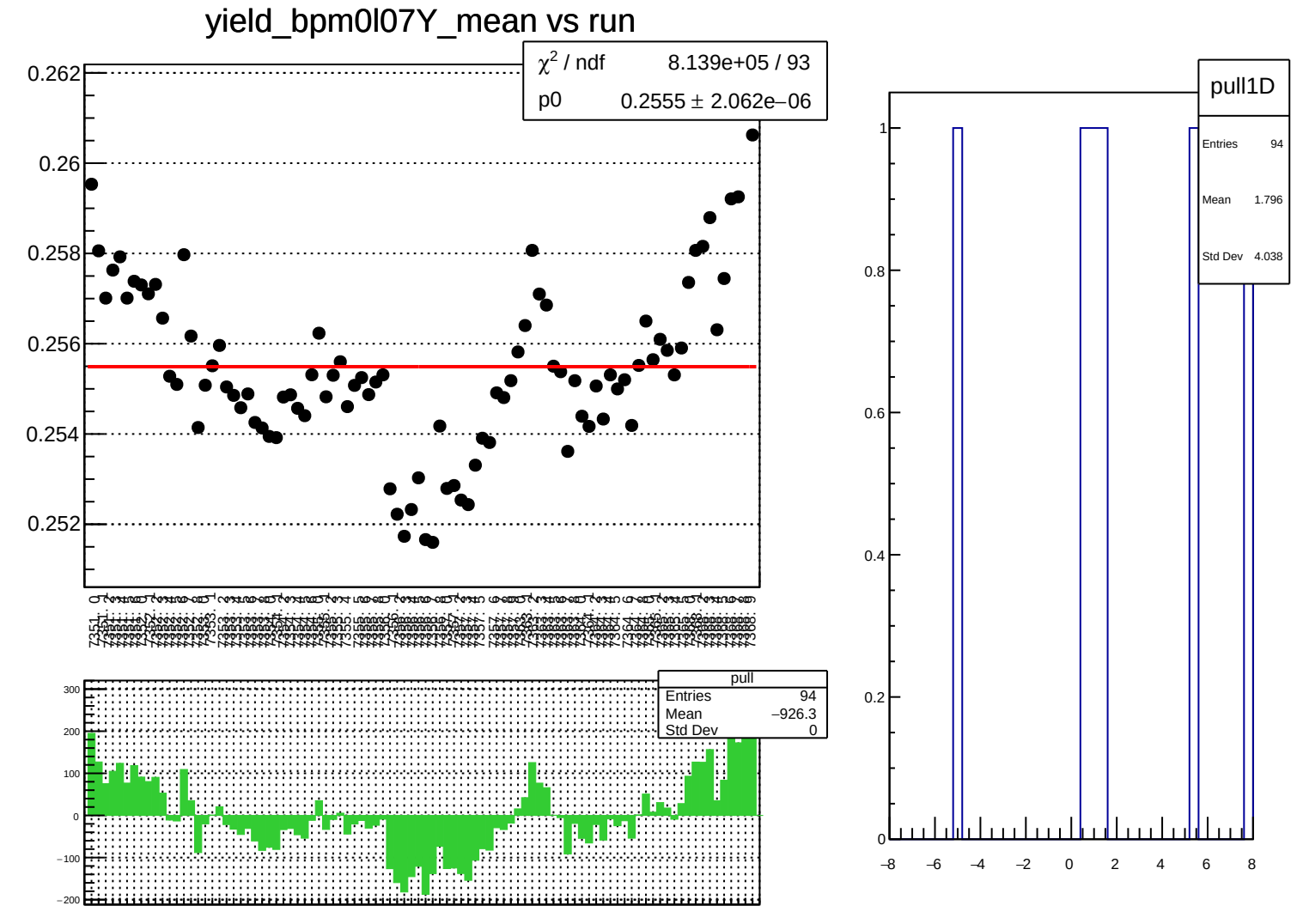

yield_bpm0l06X_rms vs run
χ² / ndf 4.723e+04 / 93
p0 0.006717 ± 5.047e−06
0.016
0.014
0.012
0.01
0.008
0.006


yield_bpm0l06Y_mean vs run
χ² / ndf 2.279e+07 / 93
p0 −1.653 ± 2.625e−06
−1.625
−1.63
−1.635
−1.64
−1.645
−1.65
−1.655
−1.66
−1.665
−1.67
pull
Entries 94
Mean −2655
Std Dev 0
1400
1200
1000
800
600
400
200
0
−200
−400
−600
pull1D
Entries 94
Mean −3.405
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

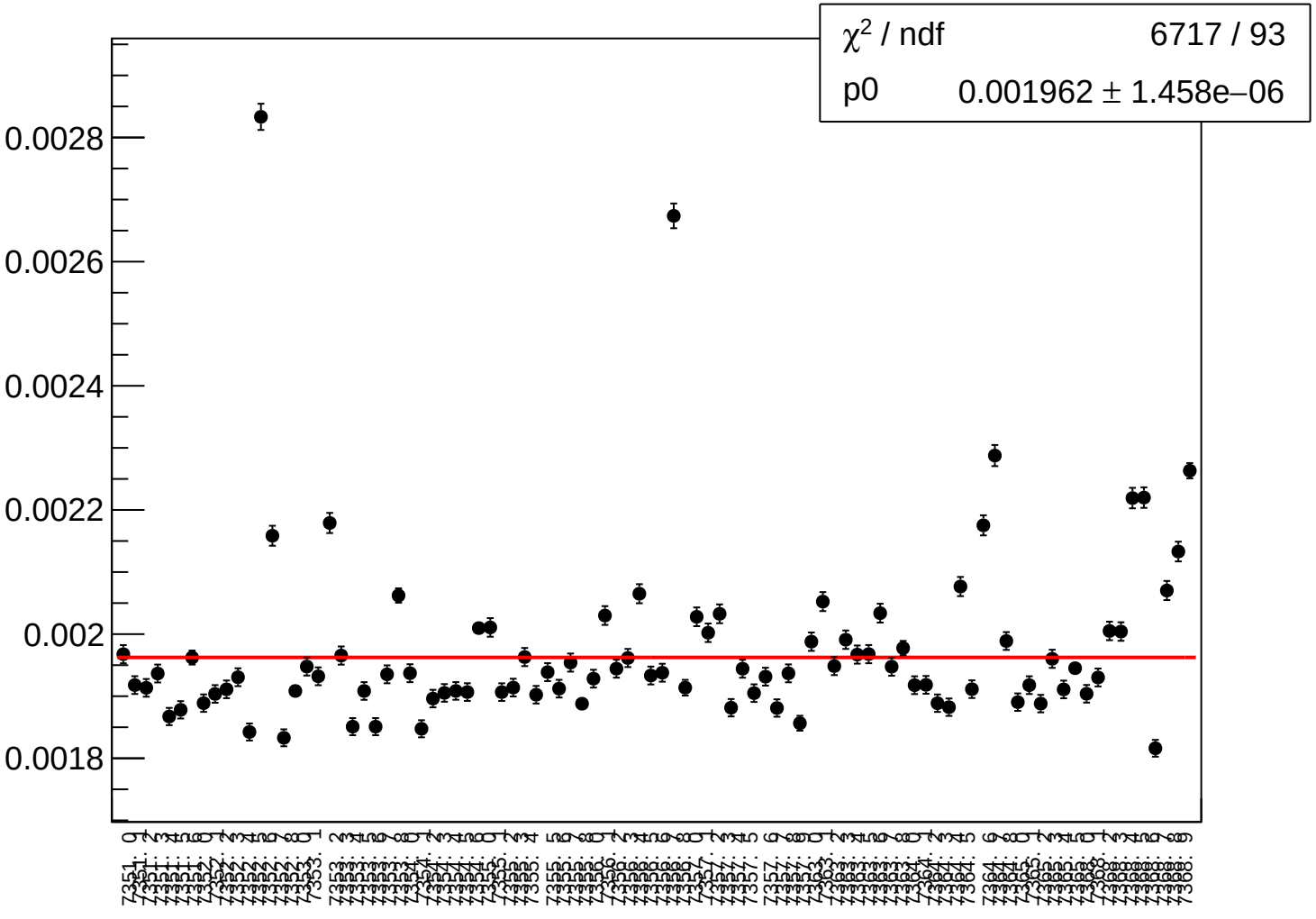

yield_bpm0l06Y_rms vs run
χ^2 / ndf 1.576e+04 / 93
p0 0.002492 ± 1.856e−06
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002

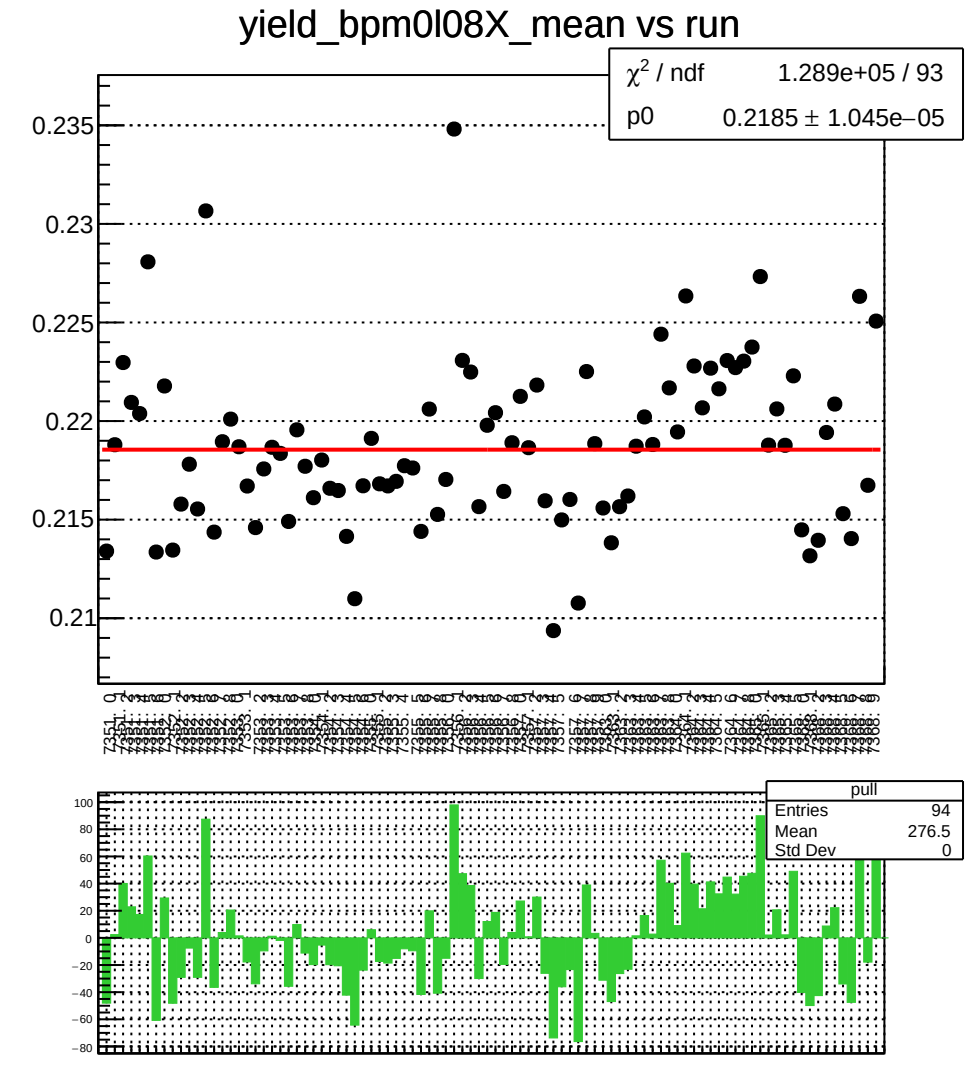

yield_bpm0l07X_mean vs run
χ² / ndf 8.154e+06 / 93
p0 −0.1717 ± 1.151e−05
−0.12
−0.14
−0.16
−0.18
−0.2
−0.22
pull
Entries 94
Mean 8996
Std Dev 0
600
400
200
0
−200
−400
pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

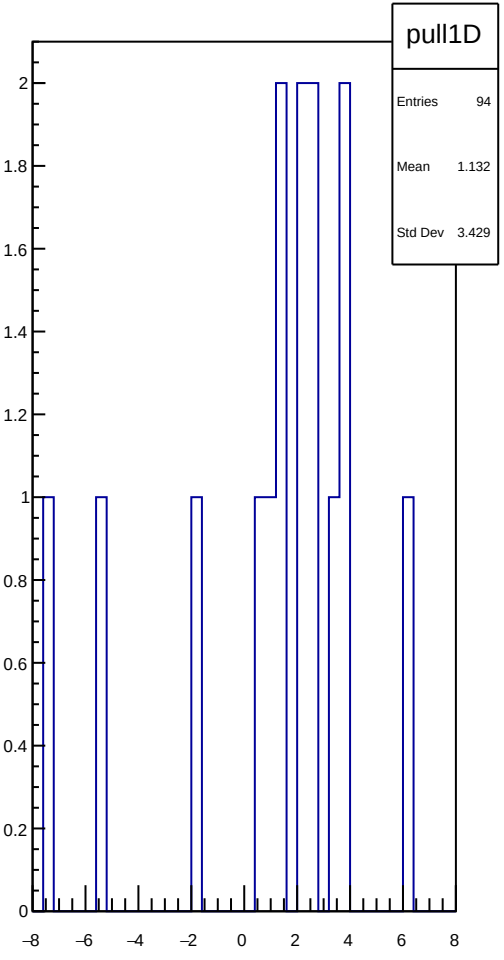

yield_bpm0l07X_rms vs run
χ² / ndf 1.79e+04 / 93
p0 0.01092 ± 8.14e−06
0.018
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009

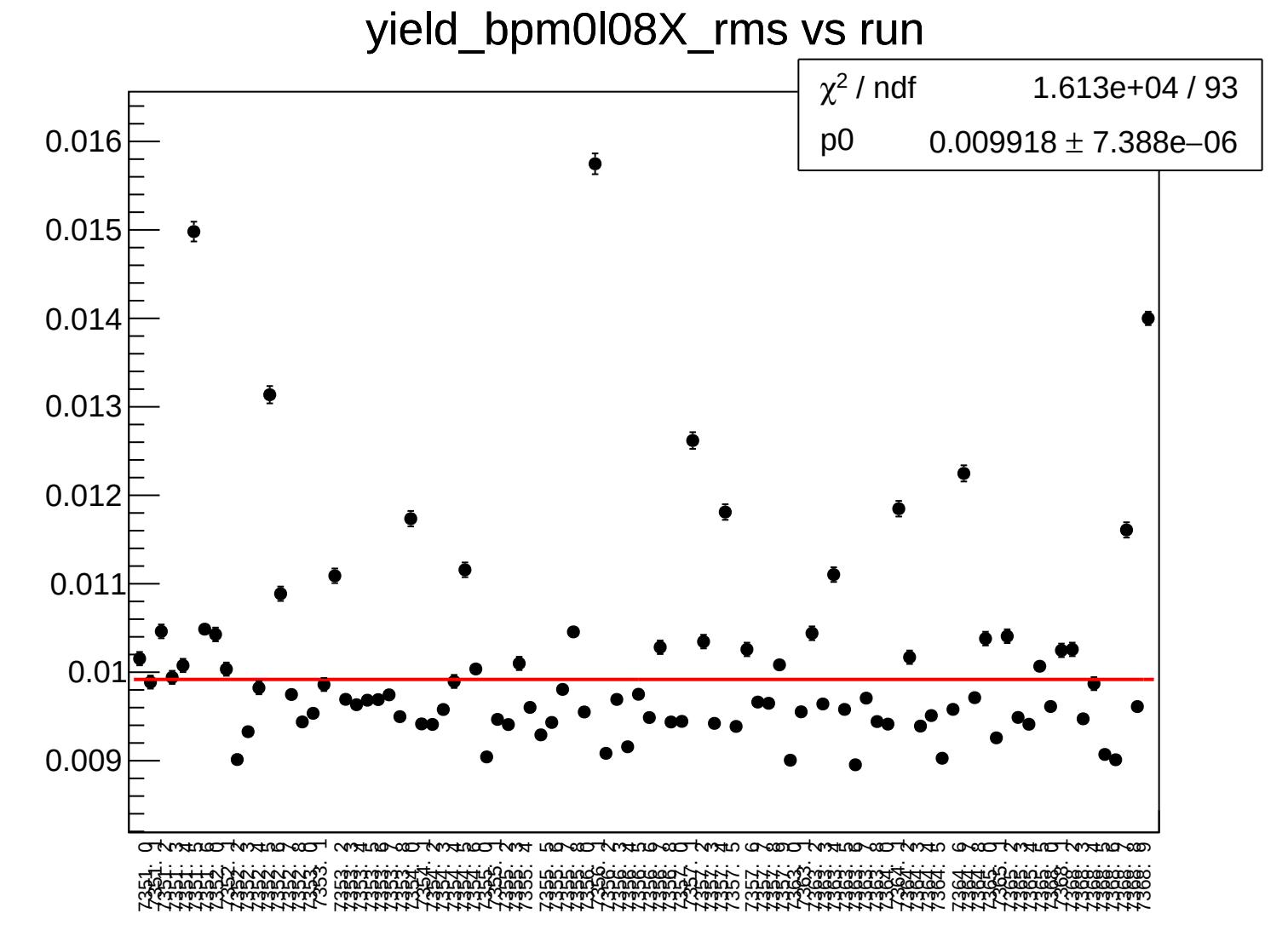

yield_bpm0l07Y_mean vs run
χ² / ndf 8.139e+05 / 93
p0 0.2555 ± 2.062e−06
0.262
0.26
0.258
0.256
0.254
0.252
pull
Entries 94
Mean −926.3
Std Dev 0
300
200
100
0
−100
−200
pull1D
Entries 94
Mean 1.796
Std Dev 4.038
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

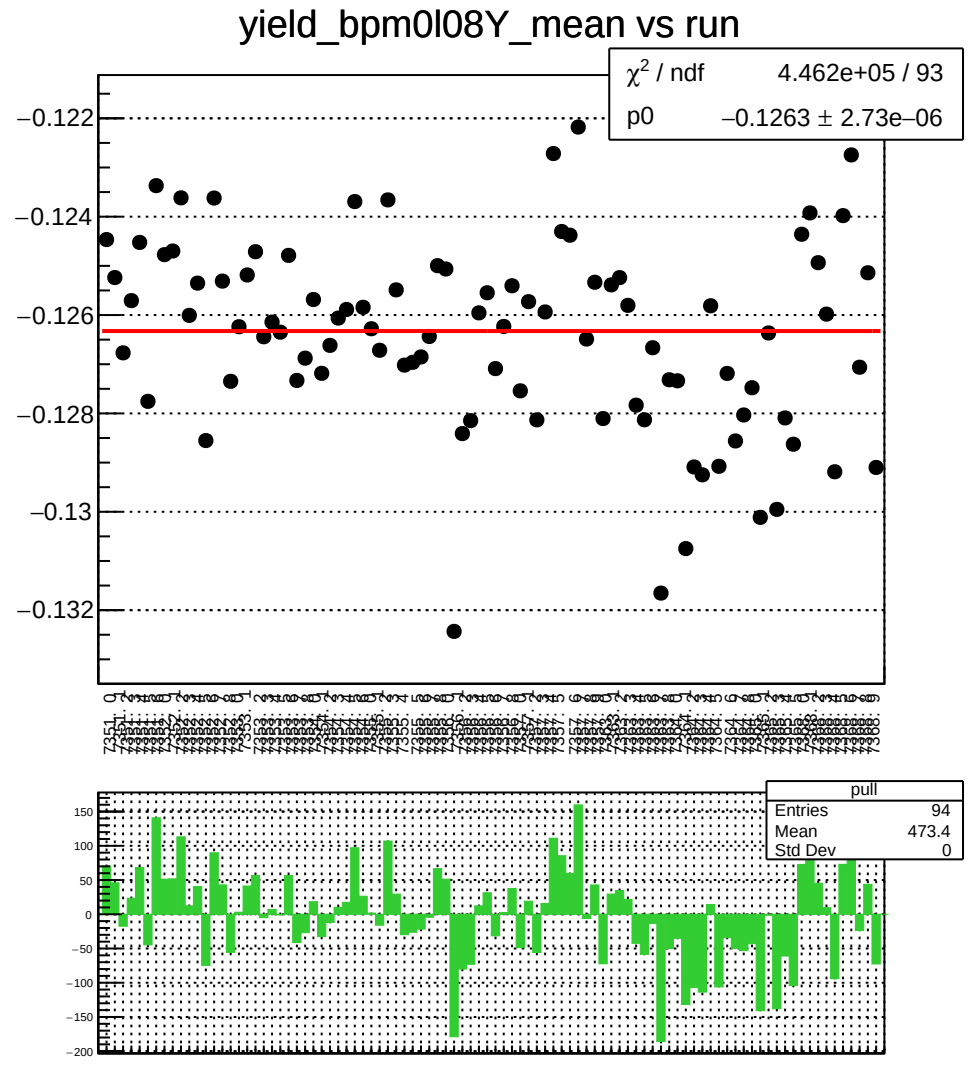
yield_bpm0l07Y_rms vs run

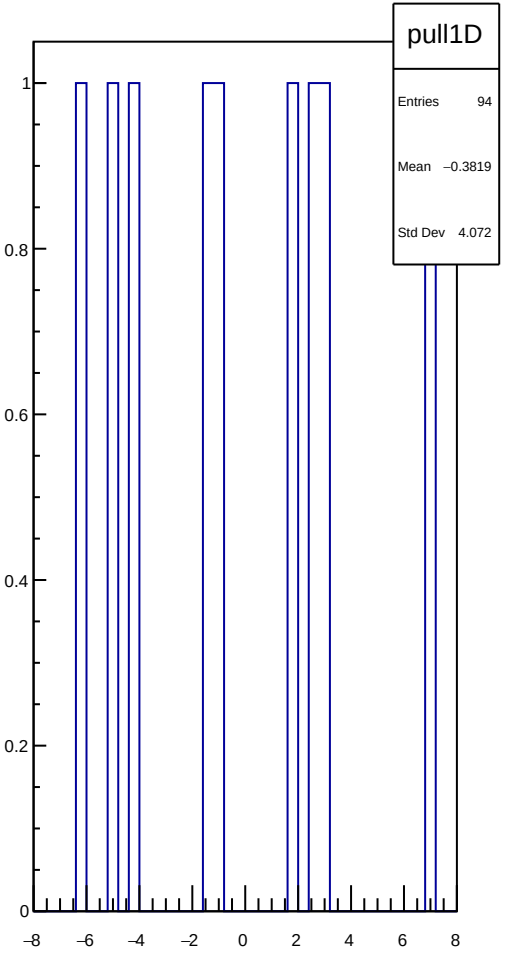


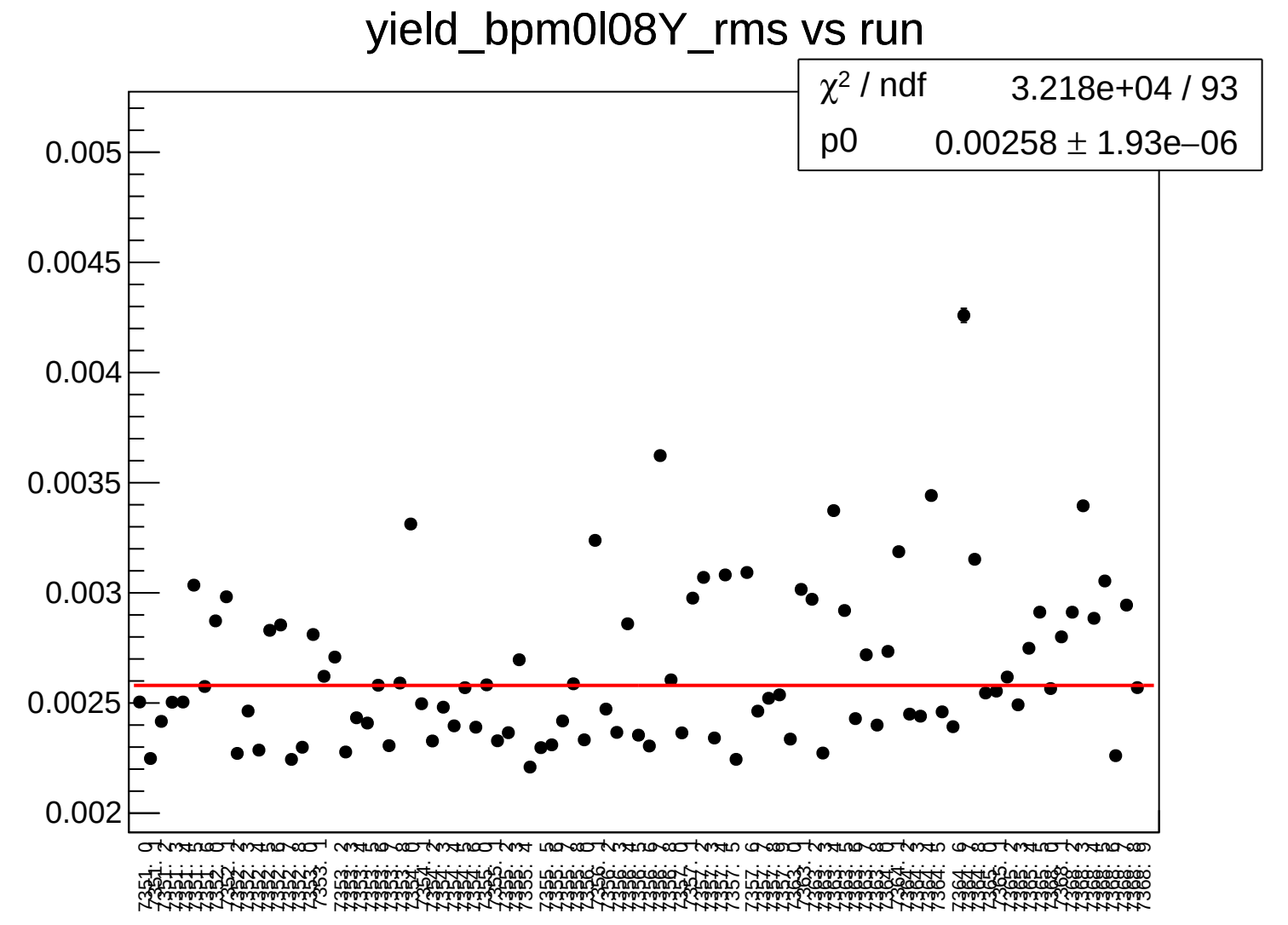

yield_bpm0l08X_mean vs run
χ² / ndf 1.289e+05 / 93
p0 0.2185 ± 1.045e−05
0.235
0.23
0.225
0.22
0.215
0.21
pull
Entries 94
Mean 276.5
Std Dev 0
100
80
60
40
20
0
−20
−40
−60
−80

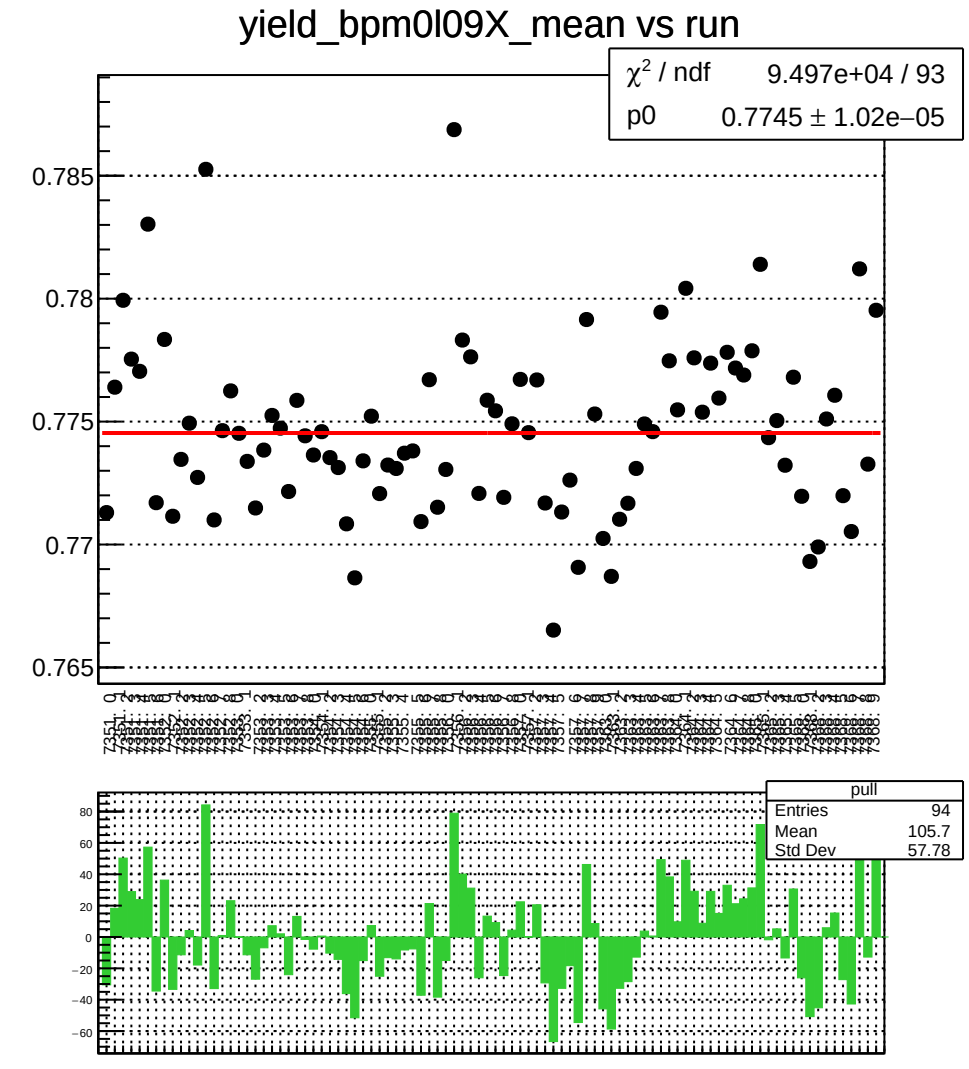

pull1D
Entries 94
Mean 1.132
Std Dev 3.429
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

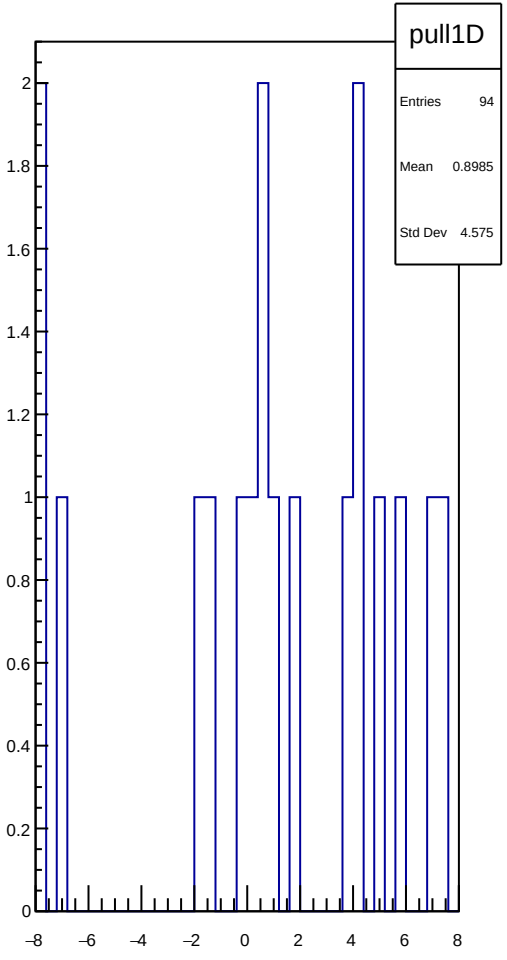

yield_bpm0l08X_rms vs run
χ² / ndf 1.613e+04 / 93
p0 0.009918 ± 7.388e−06
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009


yield_bpm0l08Y_mean vs run
χ² / ndf 4.462e+05 / 93
p0 −0.1263 ± 2.73e−06
−0.122
−0.124
−0.126
−0.128
−0.13
−0.132
pull
Entries 94
Mean 473.4
Std Dev 0
150
100
50
0
−50
−100
−150
−200

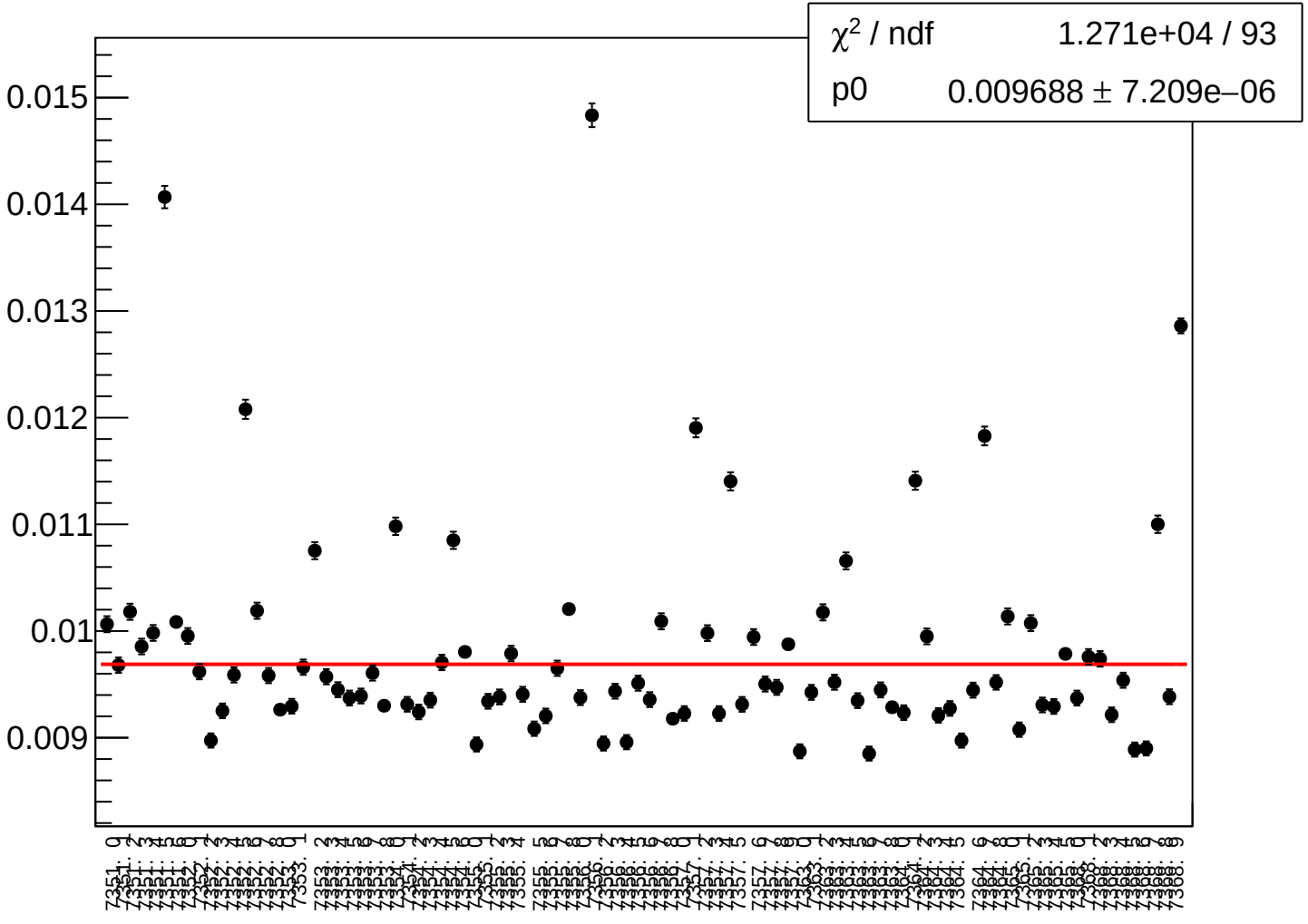

pull1D
Entries 94
Mean −0.3819
Std Dev 4.072
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

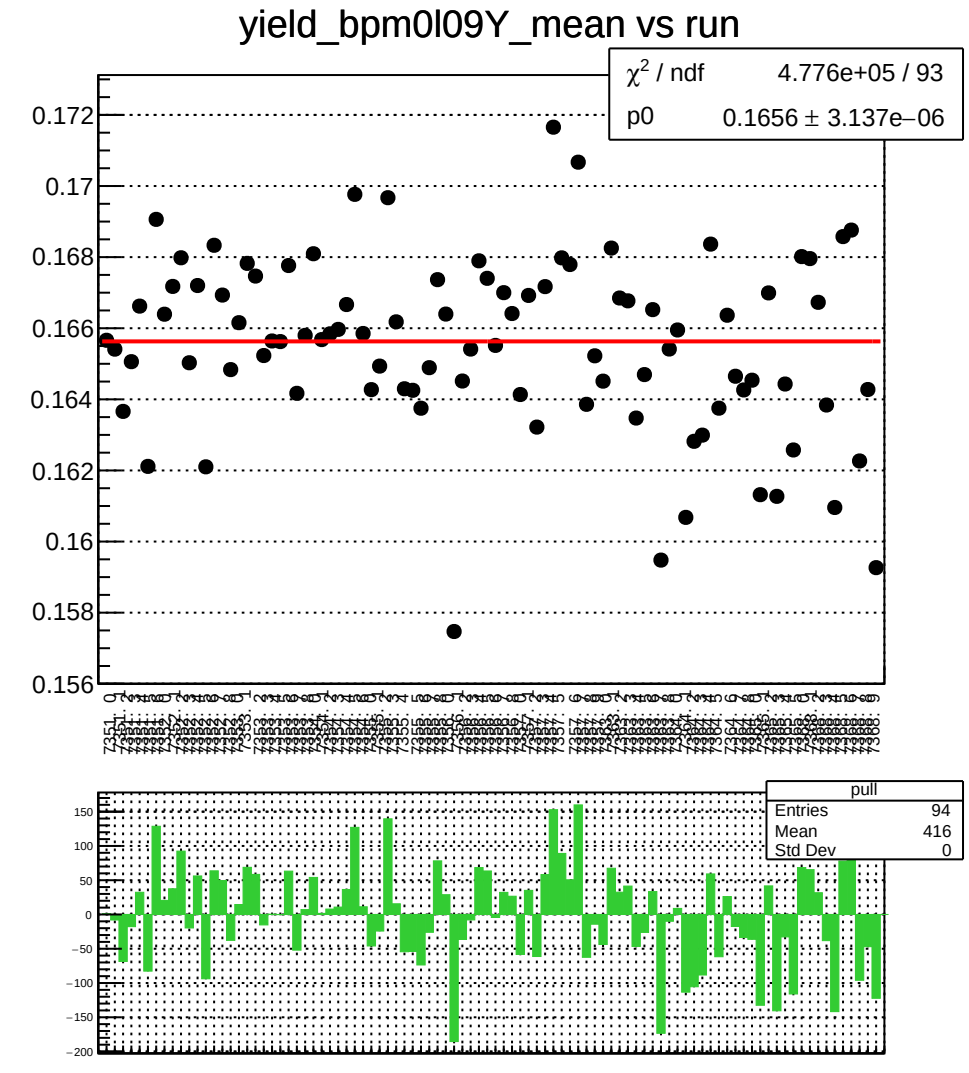

yield_bpm0l08Y_rms vs run
χ² / ndf 3.218e+04 / 93
p0 0.00258 ± 1.93e−06
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002

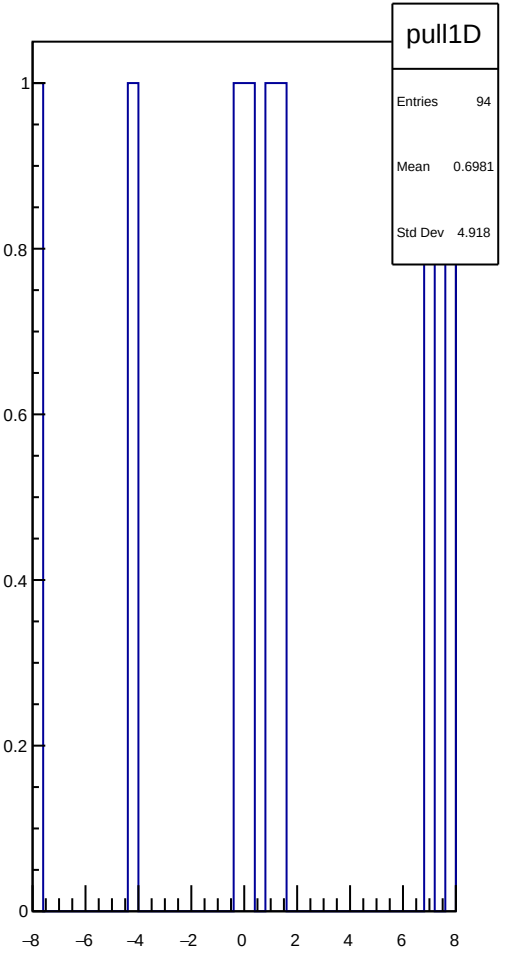

yield_bpm0l09X_mean vs run
χ² / ndf 9.497e+04 / 93
p0 0.7745 ± 1.02e−05
0.785
0.78
0.775
0.77
0.765
pull
Entries 94
Mean 105.7
Std Dev 57.78
80
60
40
20
0
−20
−40
−60

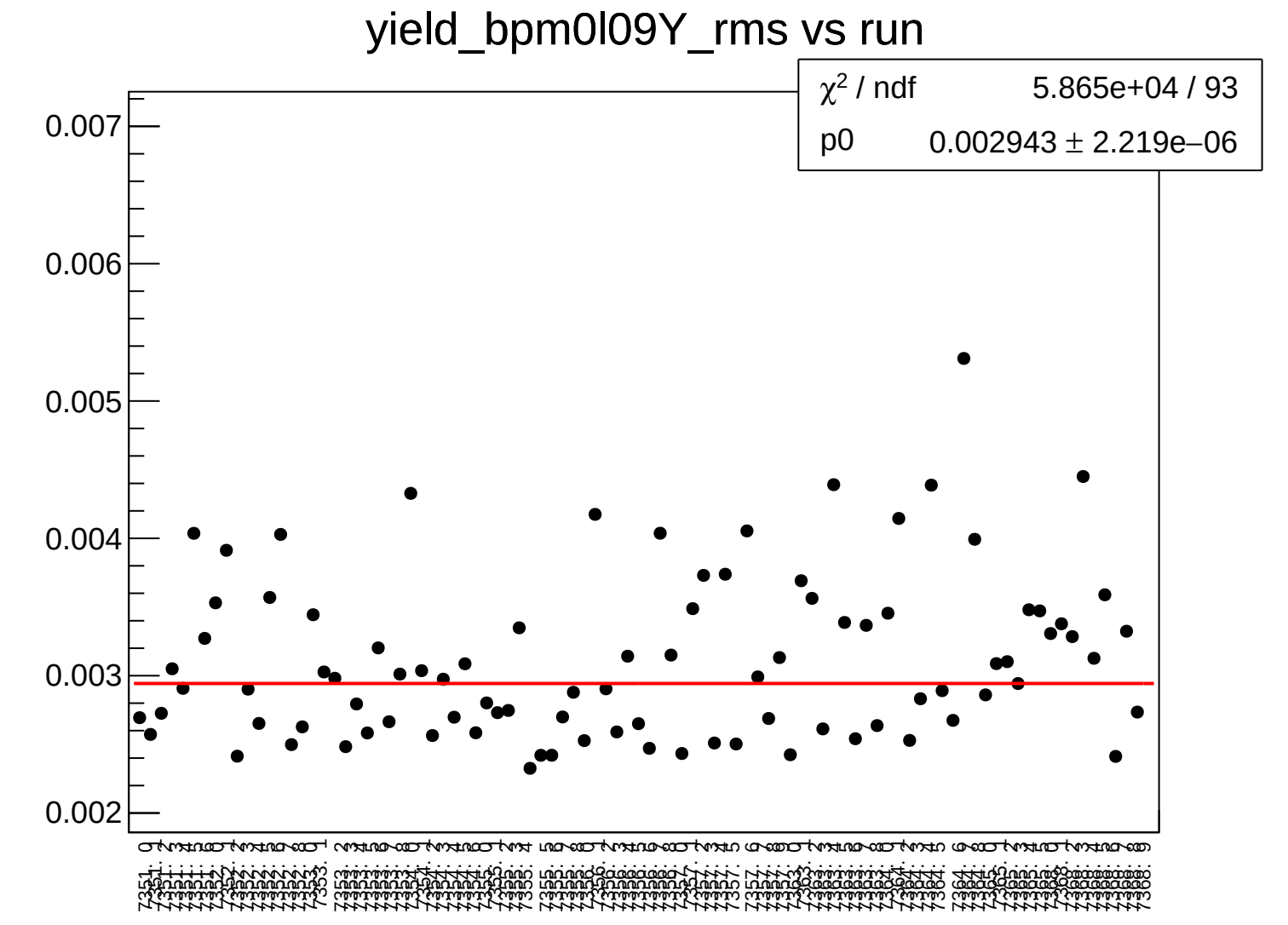

pull1D
Entries 94
Mean 0.8985
Std Dev 4.575
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

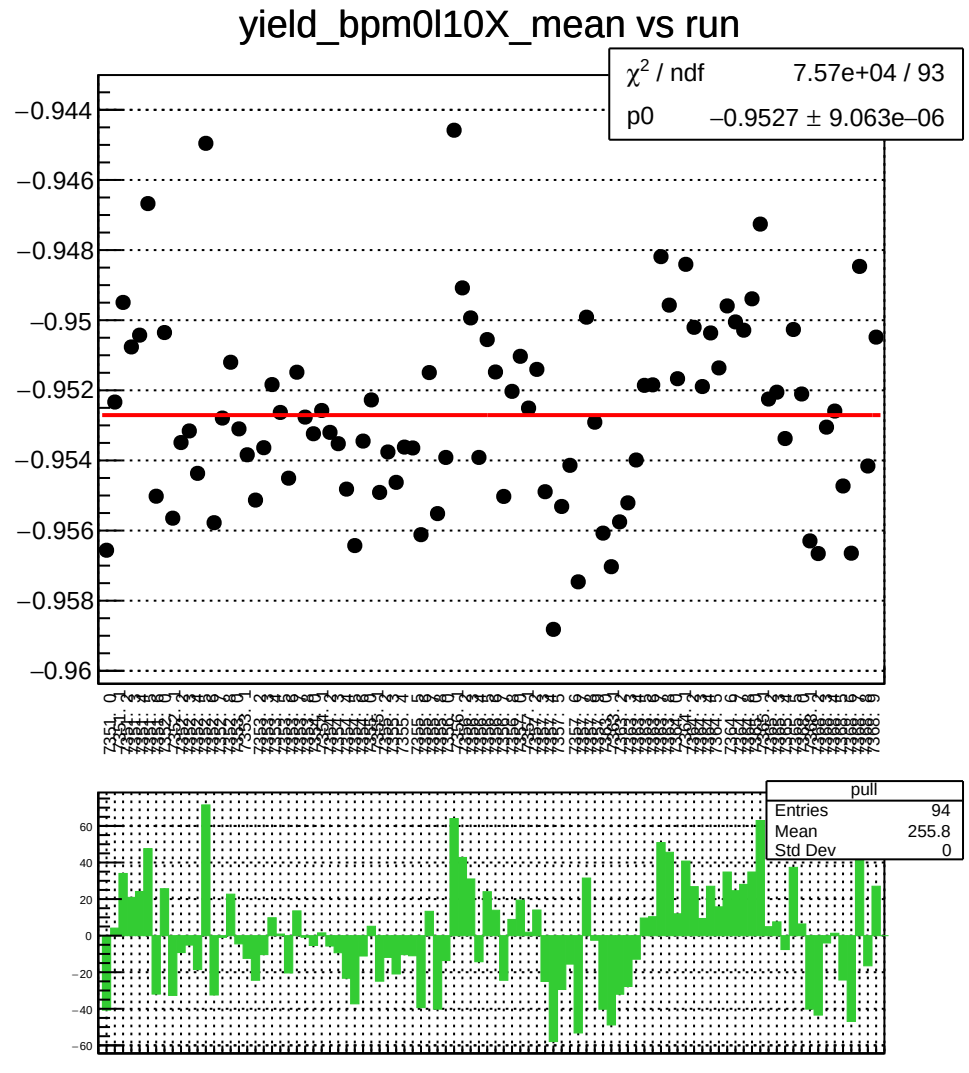
yield_bpm0l09X_rms vs run

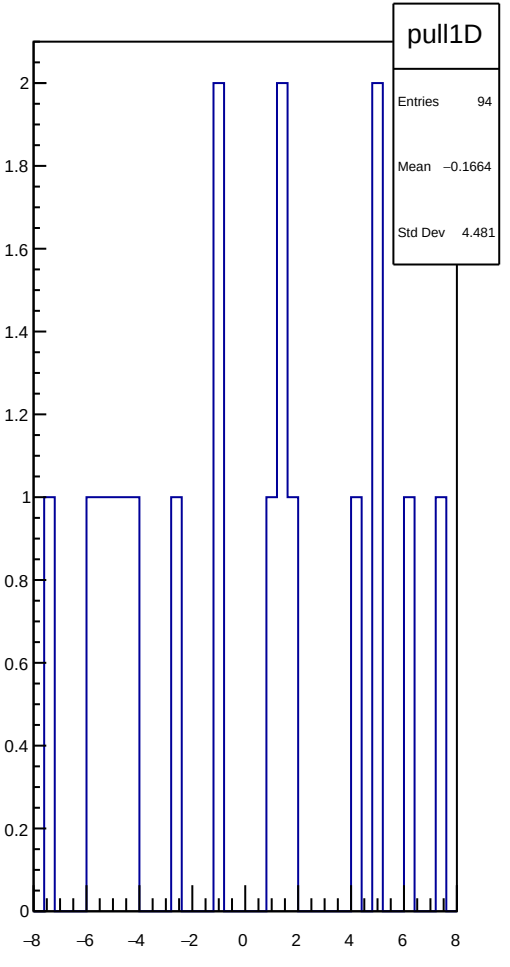


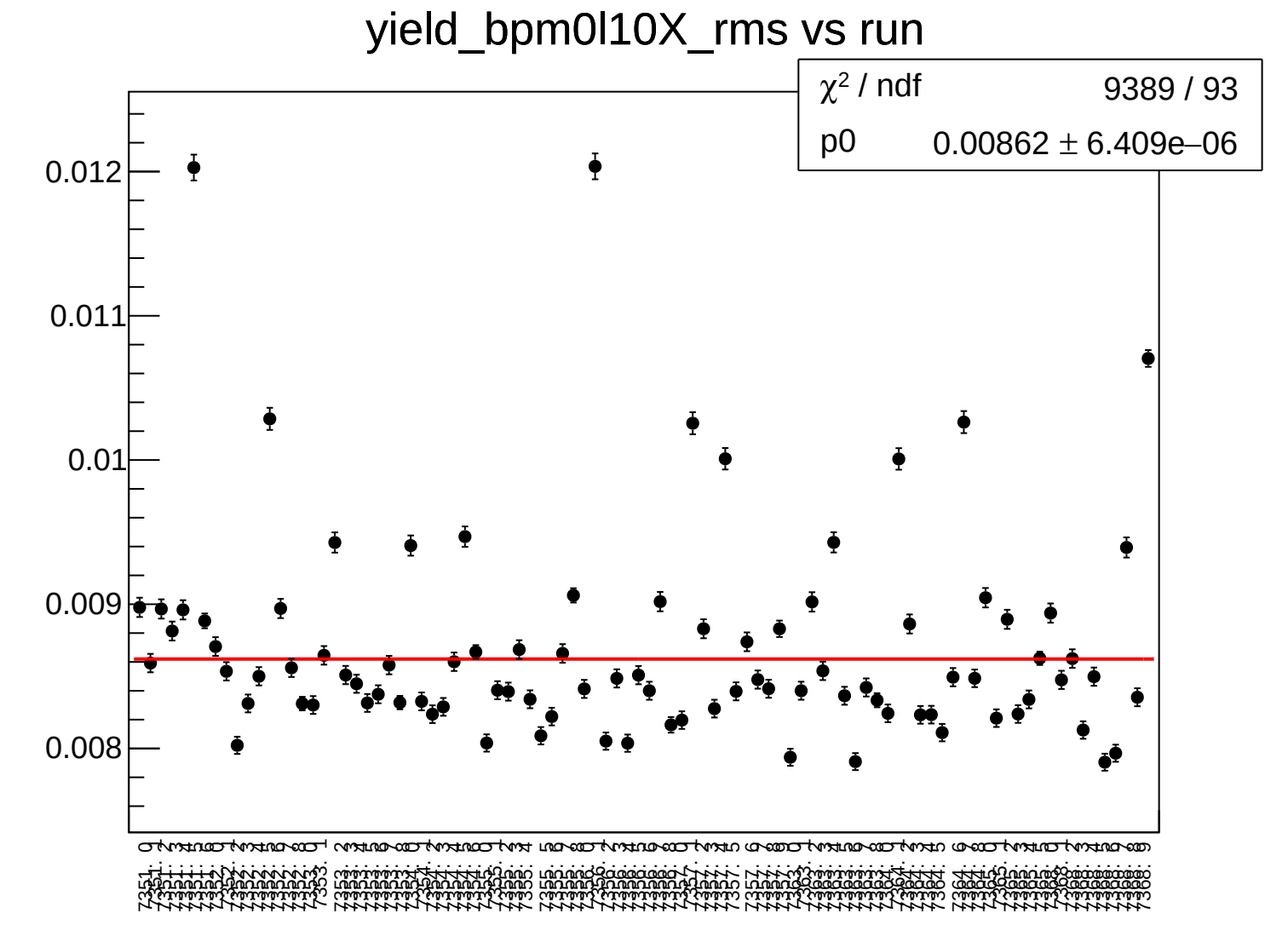

yield_bpm0l09Y_mean vs run
χ² / ndf 4.776e+05 / 93
p0 0.1656 ± 3.137e−06
0.172
0.17
0.168
0.166
0.164
0.162
0.16
0.158
0.156
pull
Entries 94
Mean 416
Std Dev 0
150
100
50
0
−50
−100
−150
−200

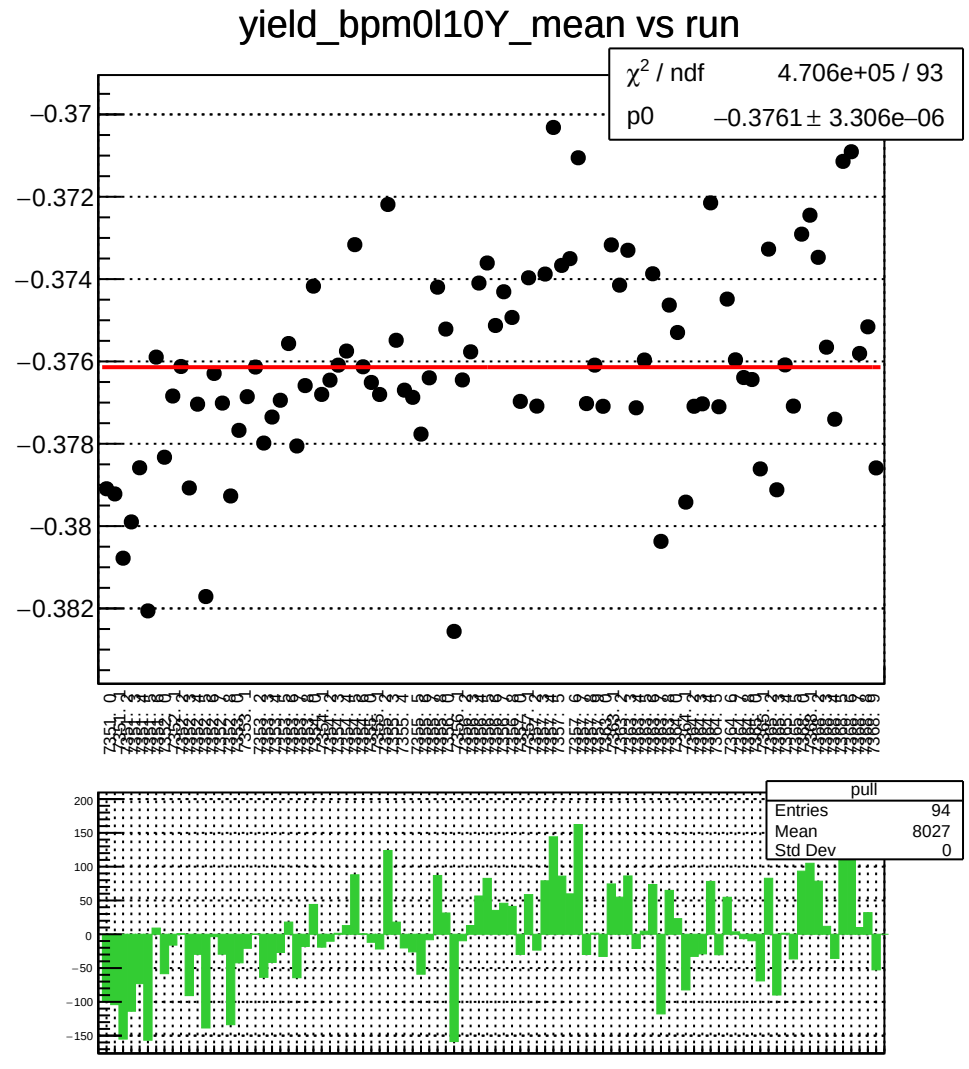

pull1D
Entries 94
Mean 0.6981
Std Dev 4.918
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

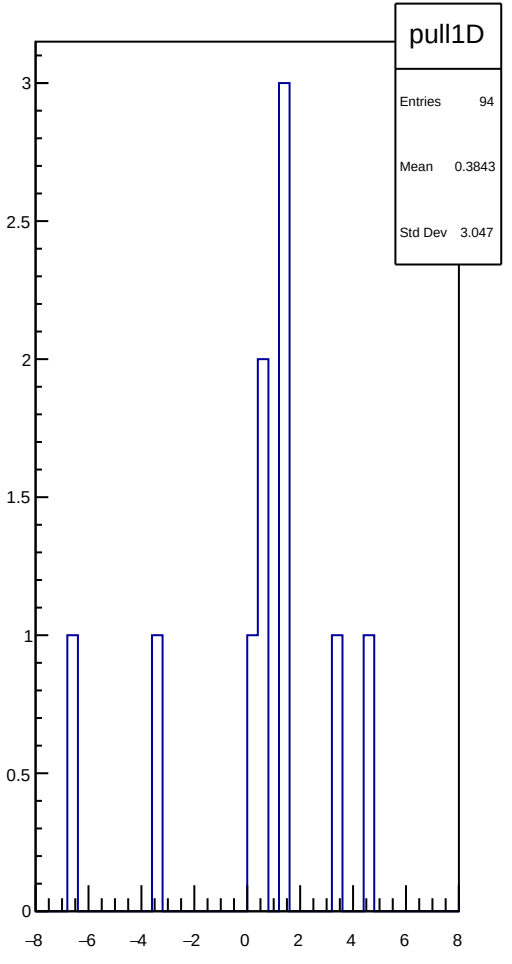

yield_bpm0l09Y_rms vs run
χ² / ndf 5.865e+04 / 93
p0 0.002943 ± 2.219e−06
0.007
0.006
0.005
0.004
0.003
0.002

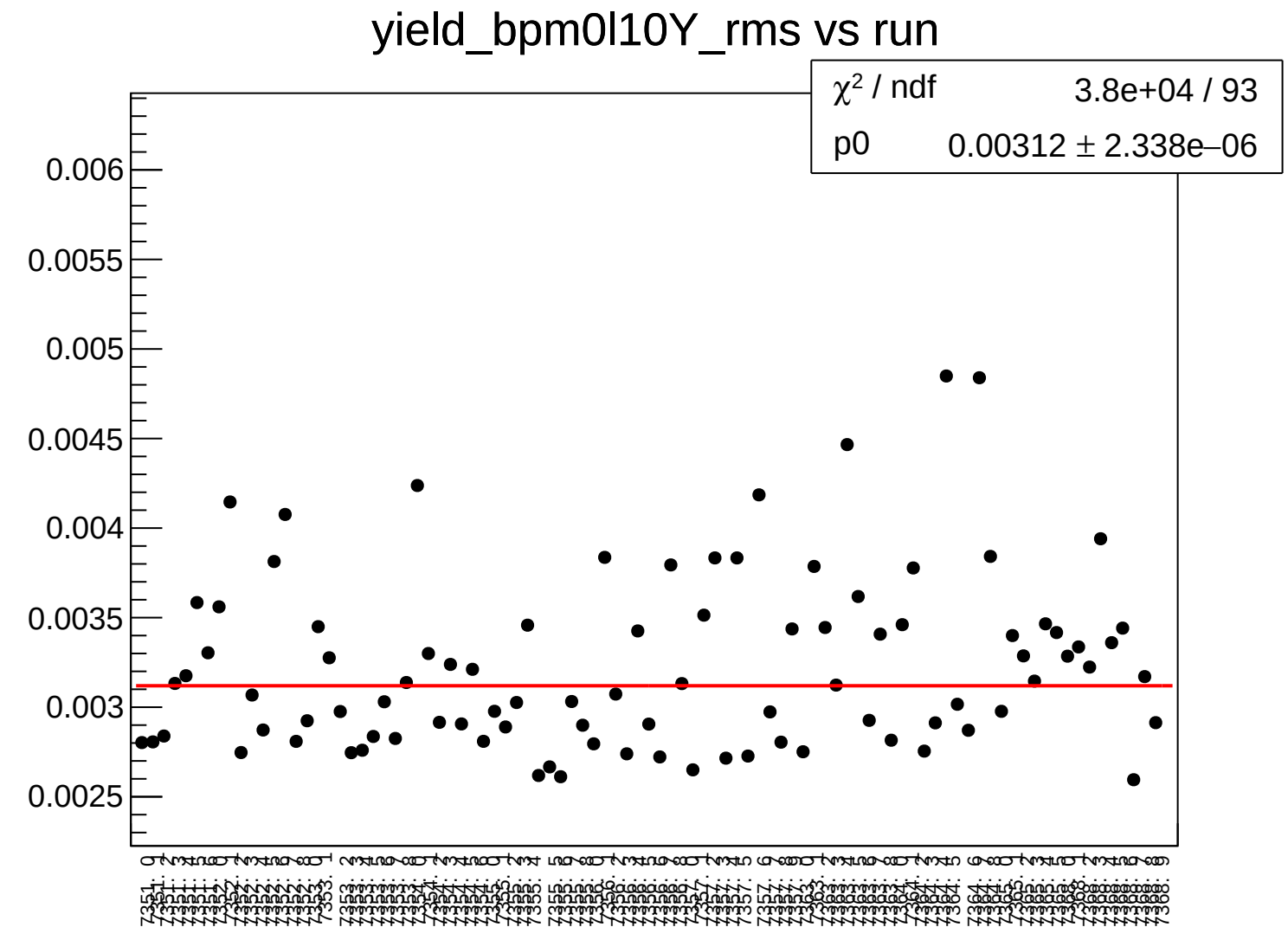

yield_bpm0l10X_mean vs run
χ² / ndf 7.57e+04 / 93
p0 −0.9527 ± 9.063e−06
−0.944
−0.946
−0.948
−0.95
−0.952
−0.954
−0.956
−0.958
−0.96
pull
Entries 94
Mean 255.8
Std Dev 0
60
40
20
0
−20
−40
−60

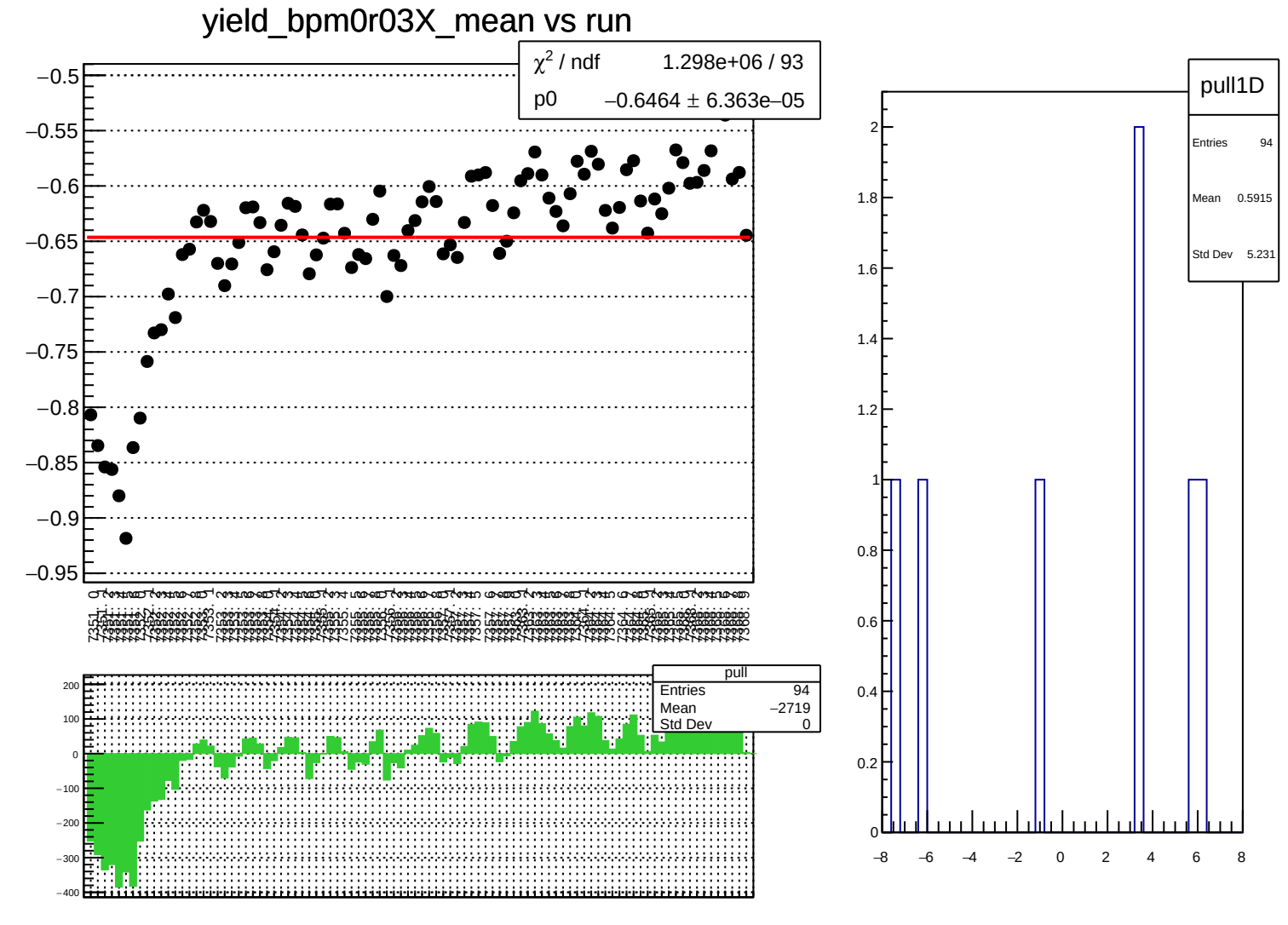

pull1D
Entries 94
Mean −0.1664
Std Dev 4.481
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

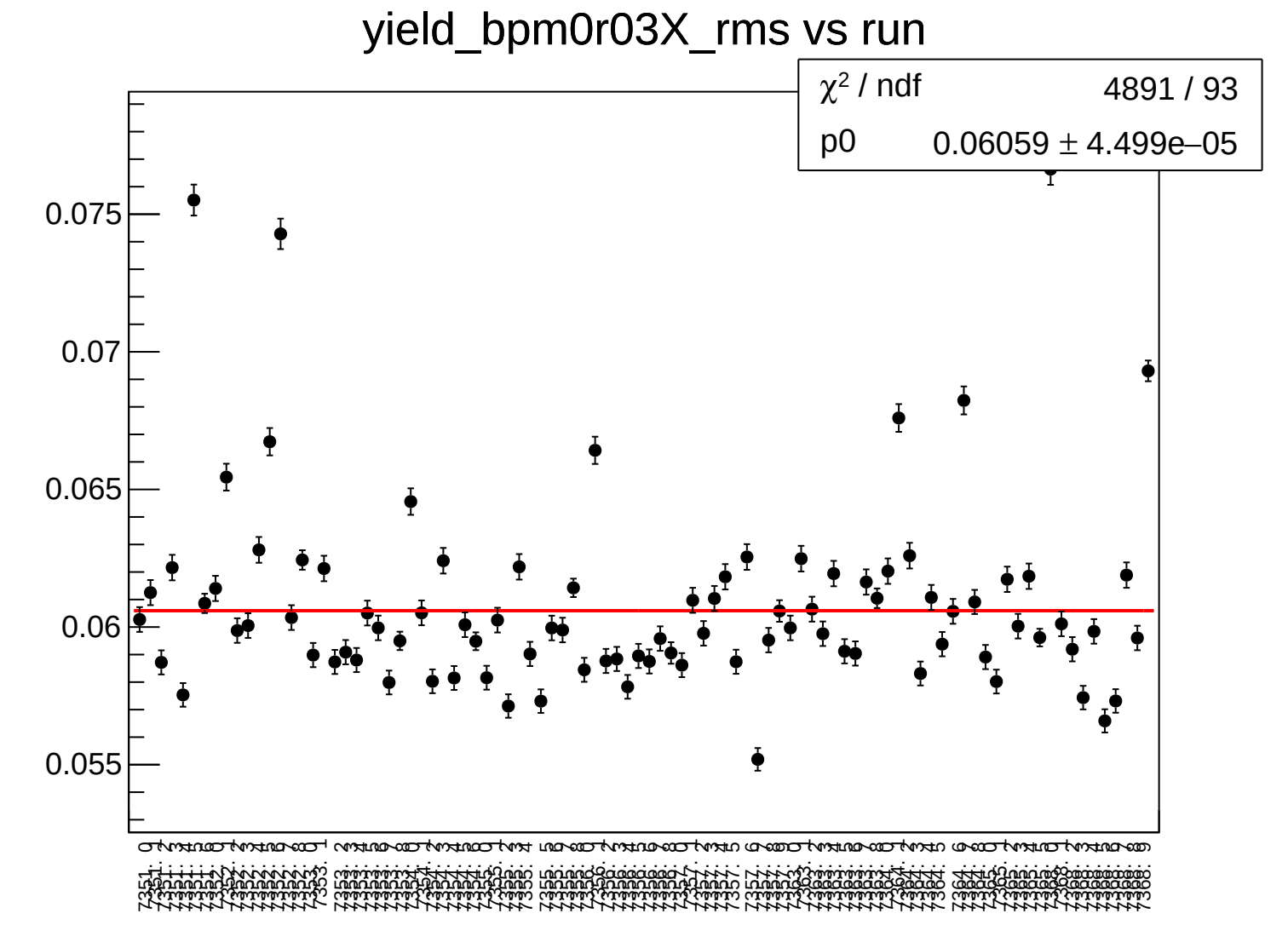

yield_bpm0l10X_rms vs run
χ² / ndf 9389 / 93
p0 0.00862 ± 6.409e–06
0.012
0.011
0.01
0.009
0.008

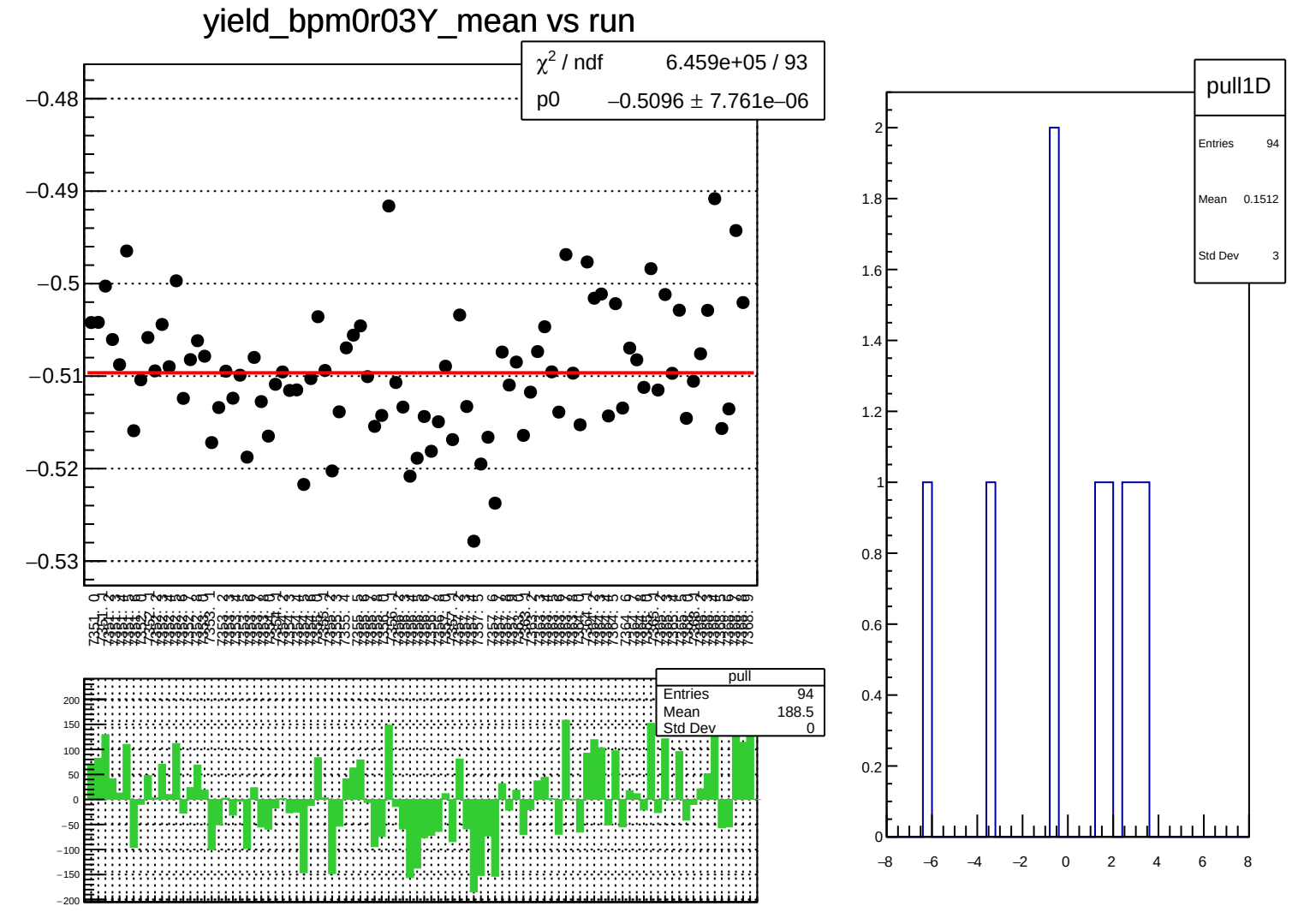

yield_bpm0l10Y_mean vs run
χ² / ndf 4.706e+05 / 93
p0 −0.3761 ± 3.306e−06
−0.37
−0.372
−0.374
−0.376
−0.378
−0.38
−0.382
pull
Entries 94
Mean 8027
Std Dev 0
200
150
100
50
0
−50
−100
−150

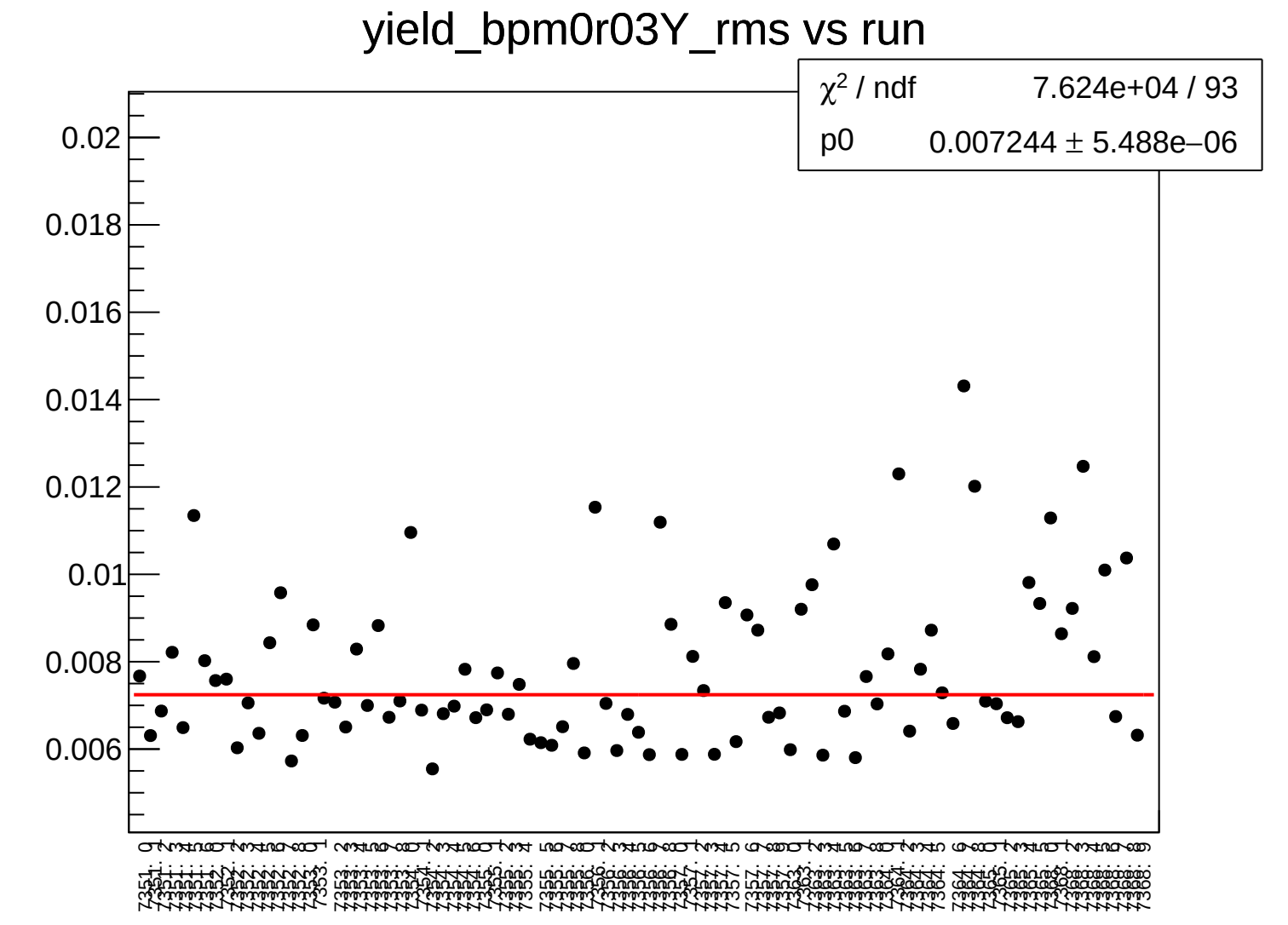

pull1D
Entries 94
Mean 0.3843
Std Dev 3.047
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

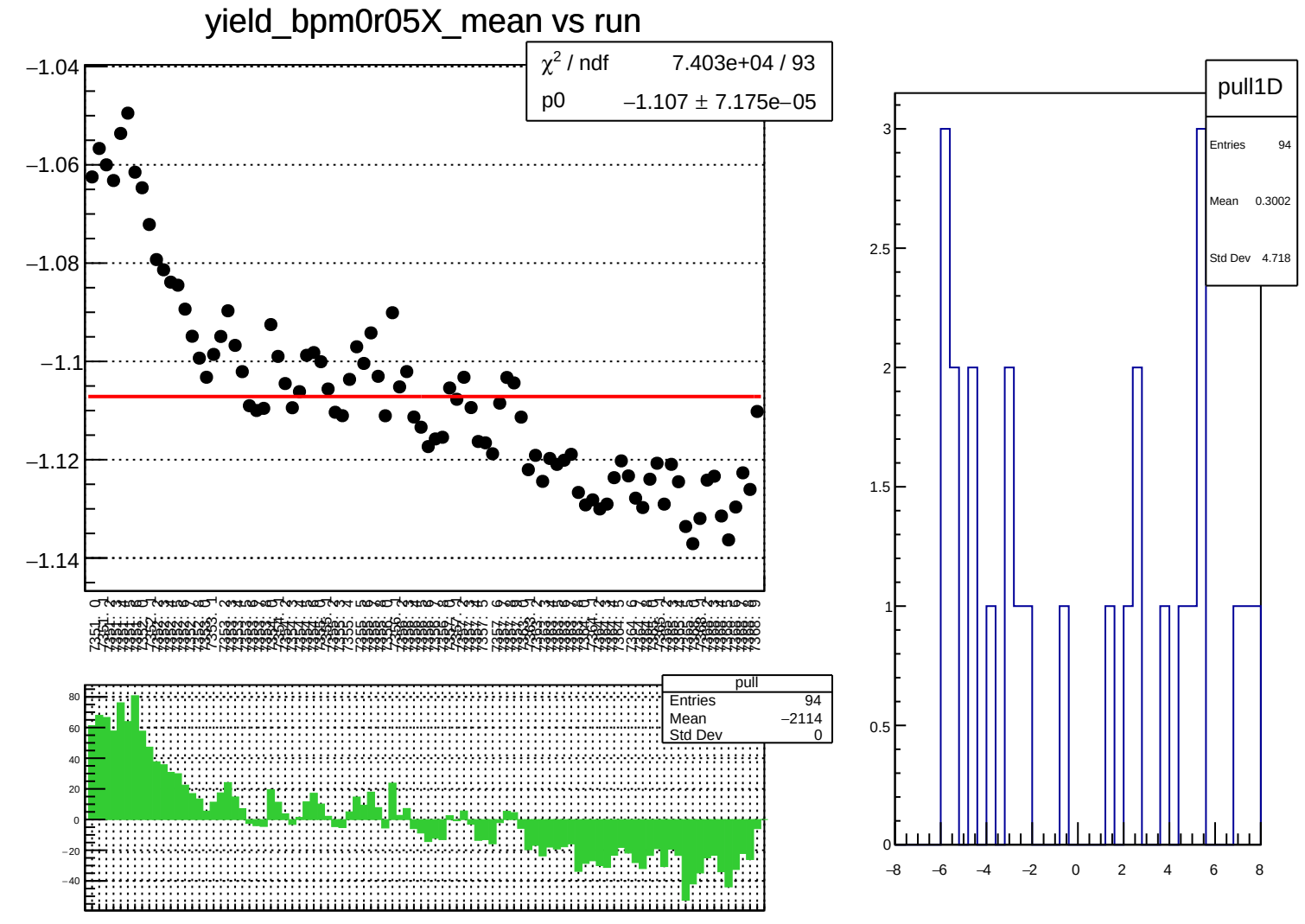

yield_bpm0l10Y_rms vs run
χ² / ndf 3.8e+04 / 93
p0 0.00312 ± 2.338e–06
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025

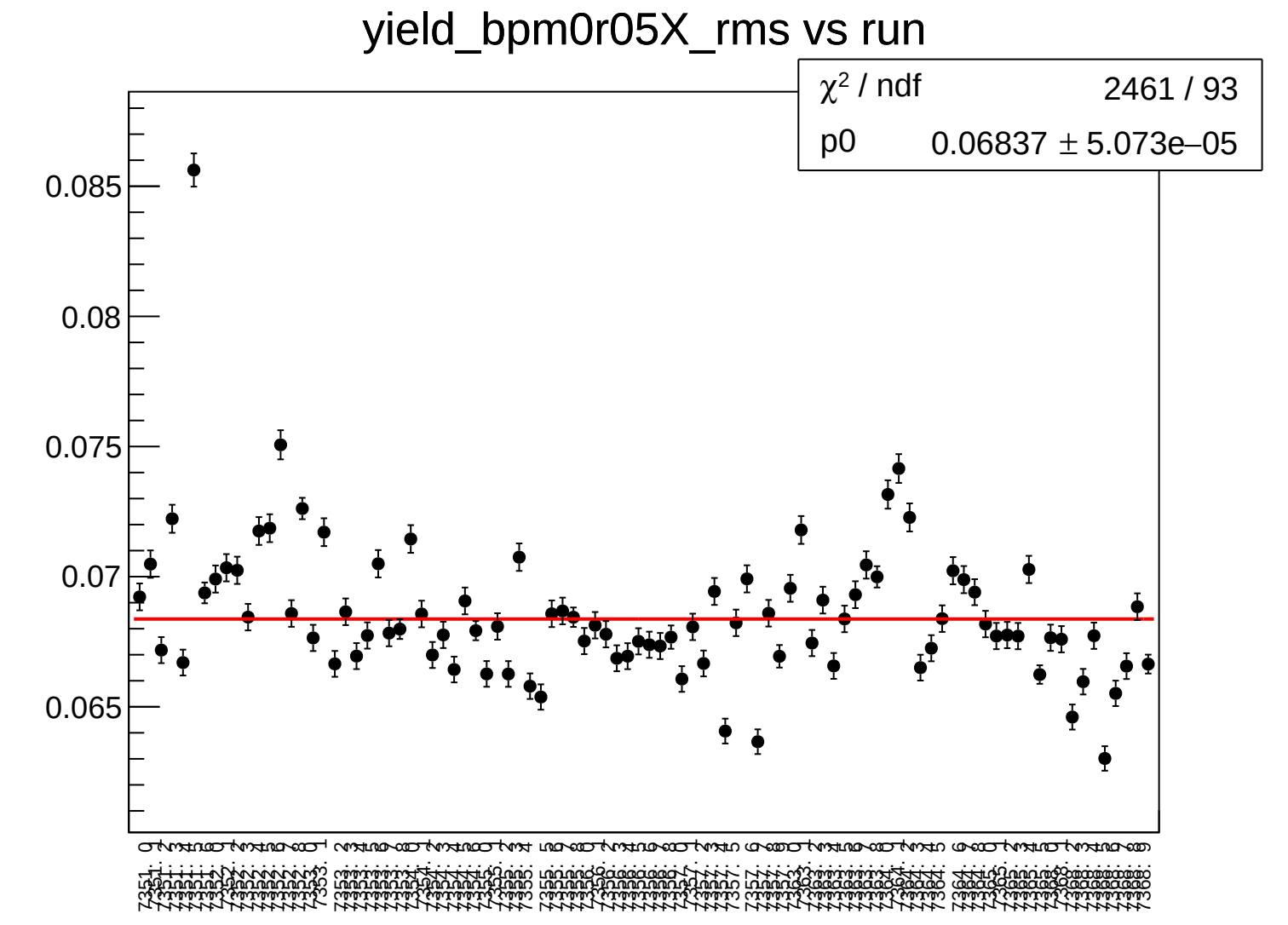

yield_bpm0r03X_mean vs run
χ² / ndf 1.298e+06 / 93
p0 −0.6464 ± 6.363e−05
pull
Entries 94
Mean −2719
Std Dev 0
pull1D
Entries 94
Mean 0.5915
Std Dev 5.231

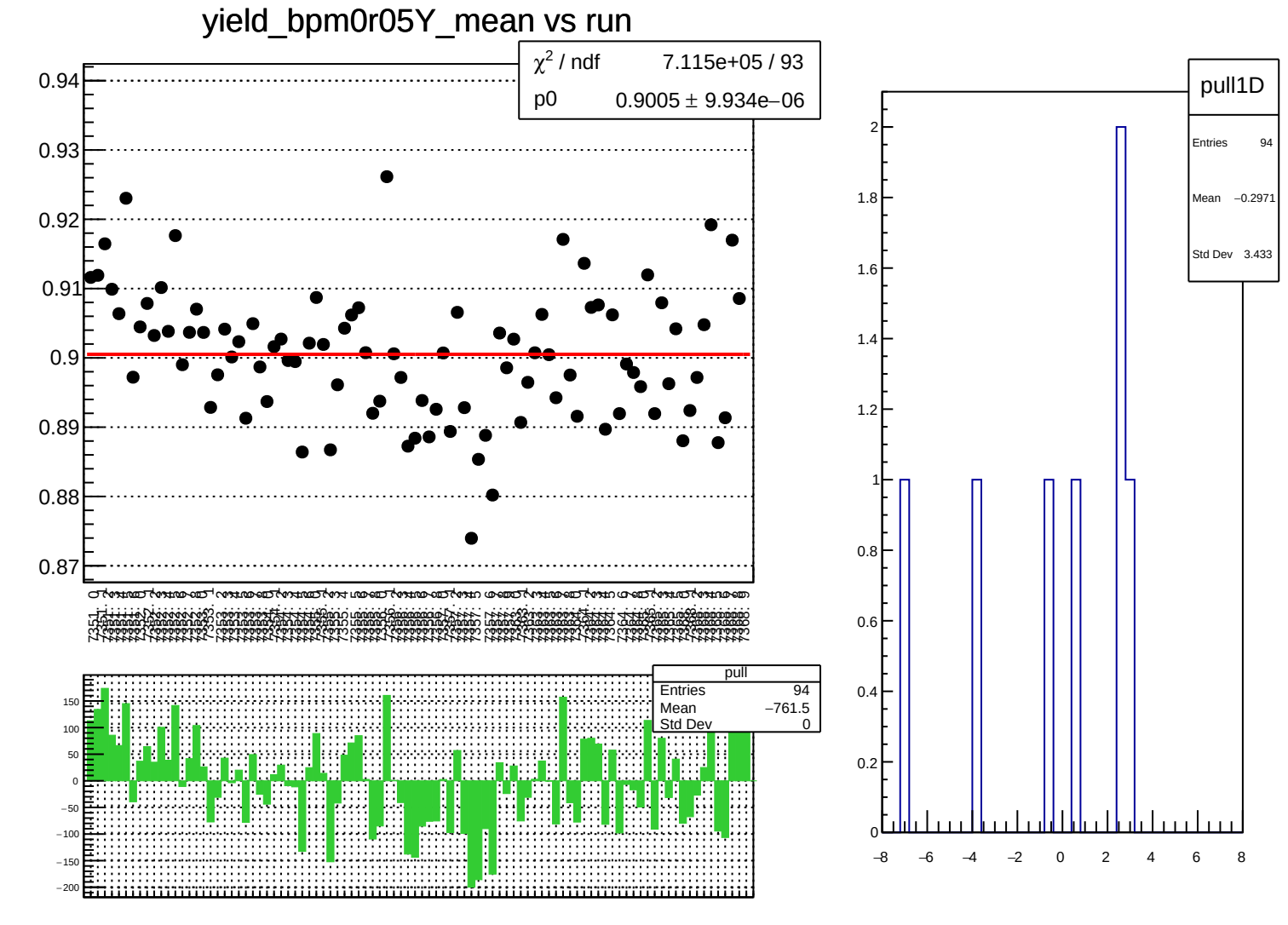

yield_bpm0r03X_rms vs run
χ² / ndf 4891 / 93
p0 0.06059 ± 4.499e−05
0.075
0.07
0.065
0.06
0.055

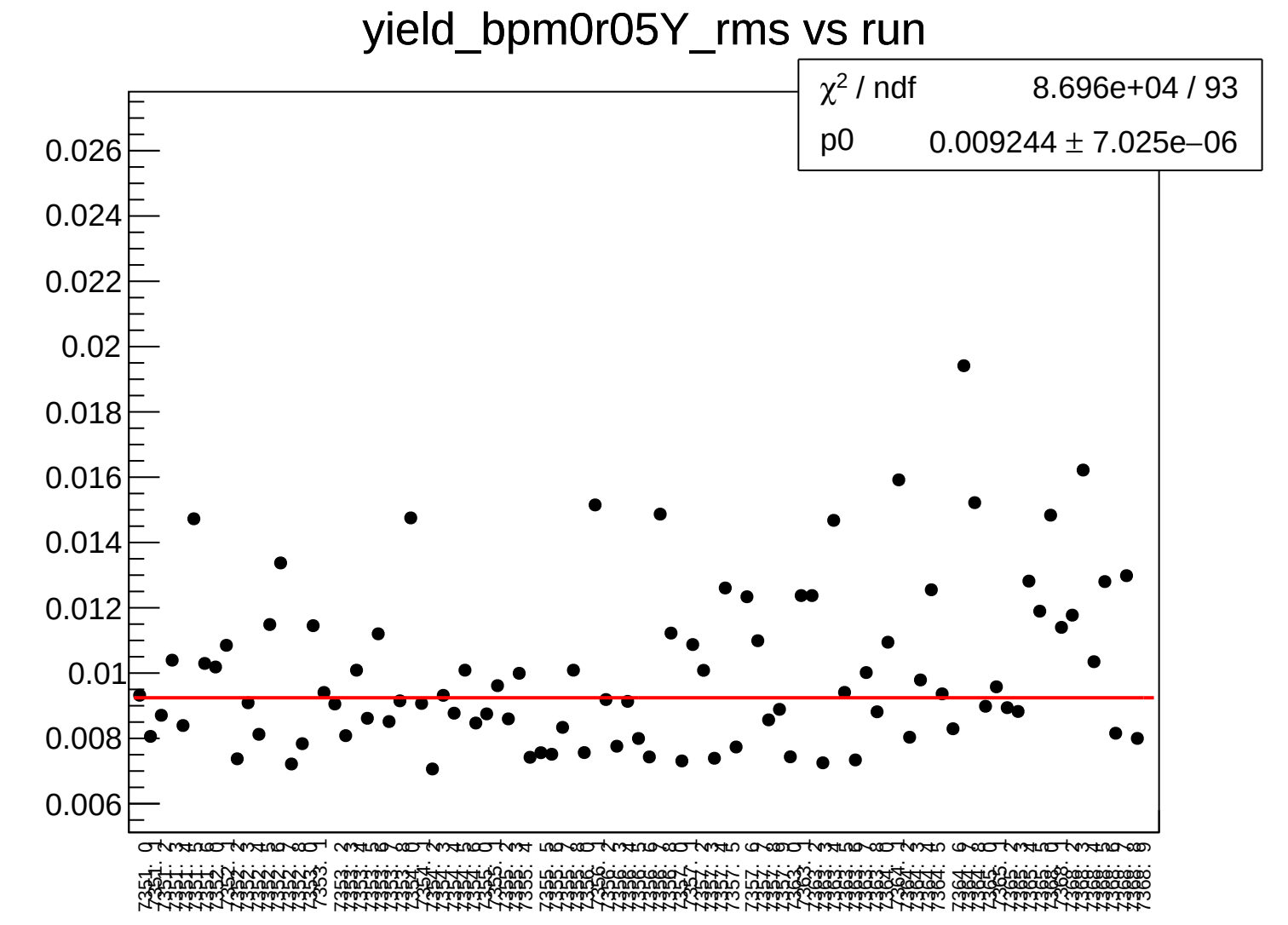

yield_bpm0r03Y_mean vs run
χ² / ndf 6.459e+05 / 93
p0 −0.5096 ± 7.761e−06
−0.48
−0.49
−0.5
−0.51
−0.52
−0.53
pull
Entries 94
Mean 188.5
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200
pull1D
Entries 94
Mean 0.1512
Std Dev 3
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

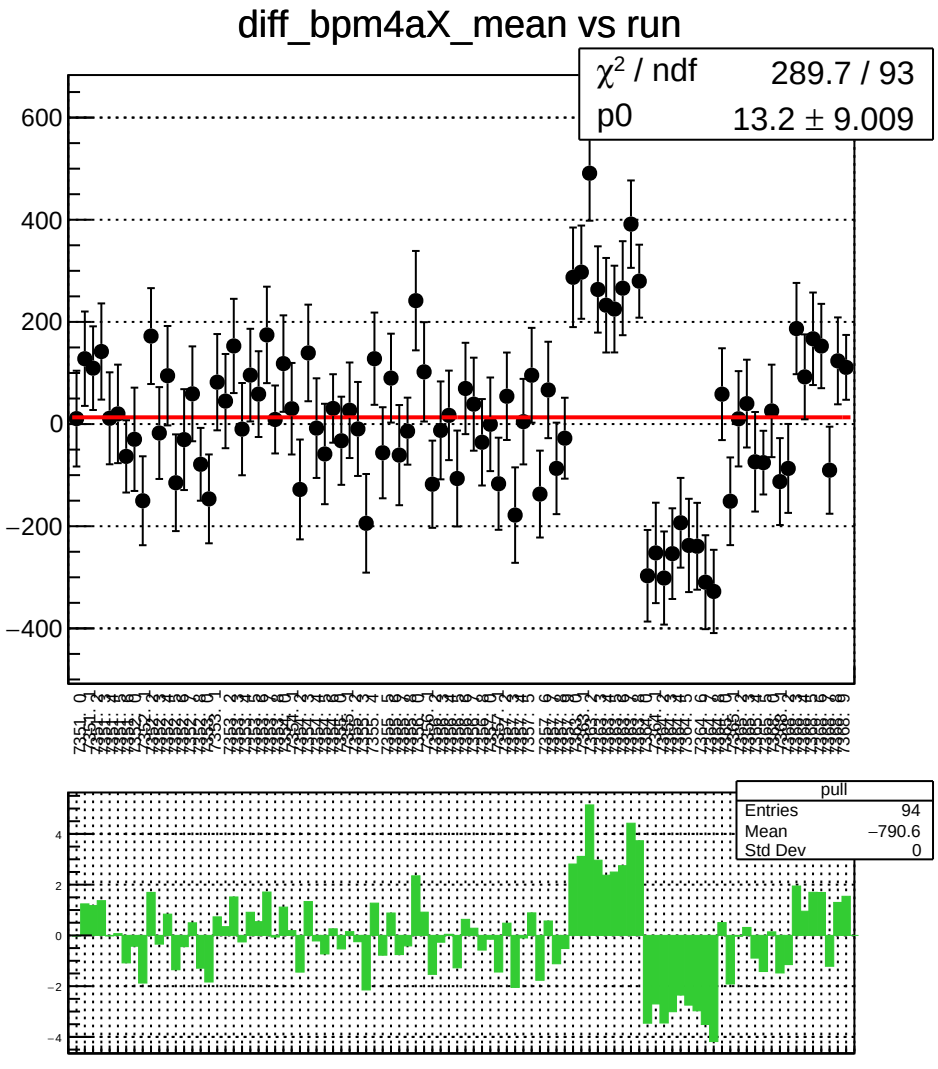

yield_bpm0r03Y_rms vs run
χ^2 / ndf 7.624e+04 / 93
p0 0.007244 ± 5.488e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

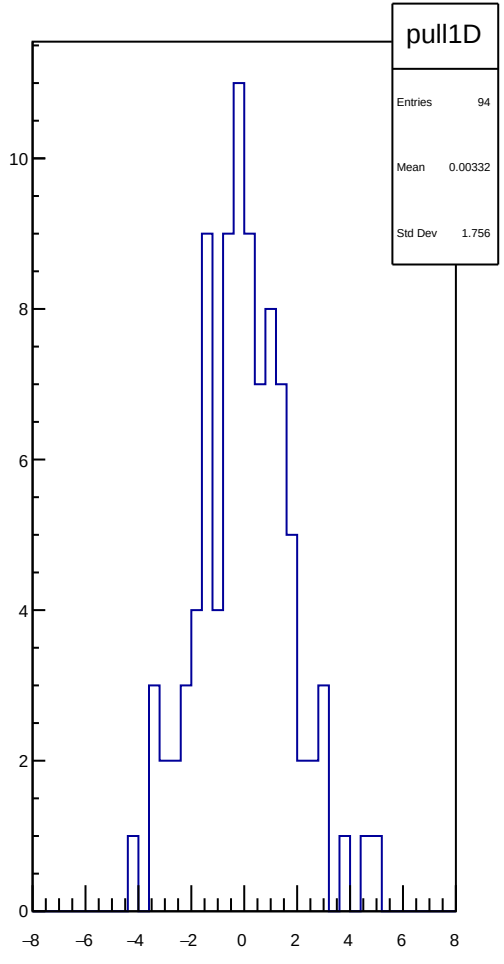

yield_bpm0r05X_mean vs run
χ² / ndf 7.403e+04 / 93
p0 −1.107 ± 7.175e−05
−1.04
−1.06
−1.08
−1.1
−1.12
−1.14
pull
Entries 94
Mean −2114
Std Dev 0
80
60
40
20
0
−20
−40
pull1D
Entries 94
Mean 0.3002
Std Dev 4.718
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

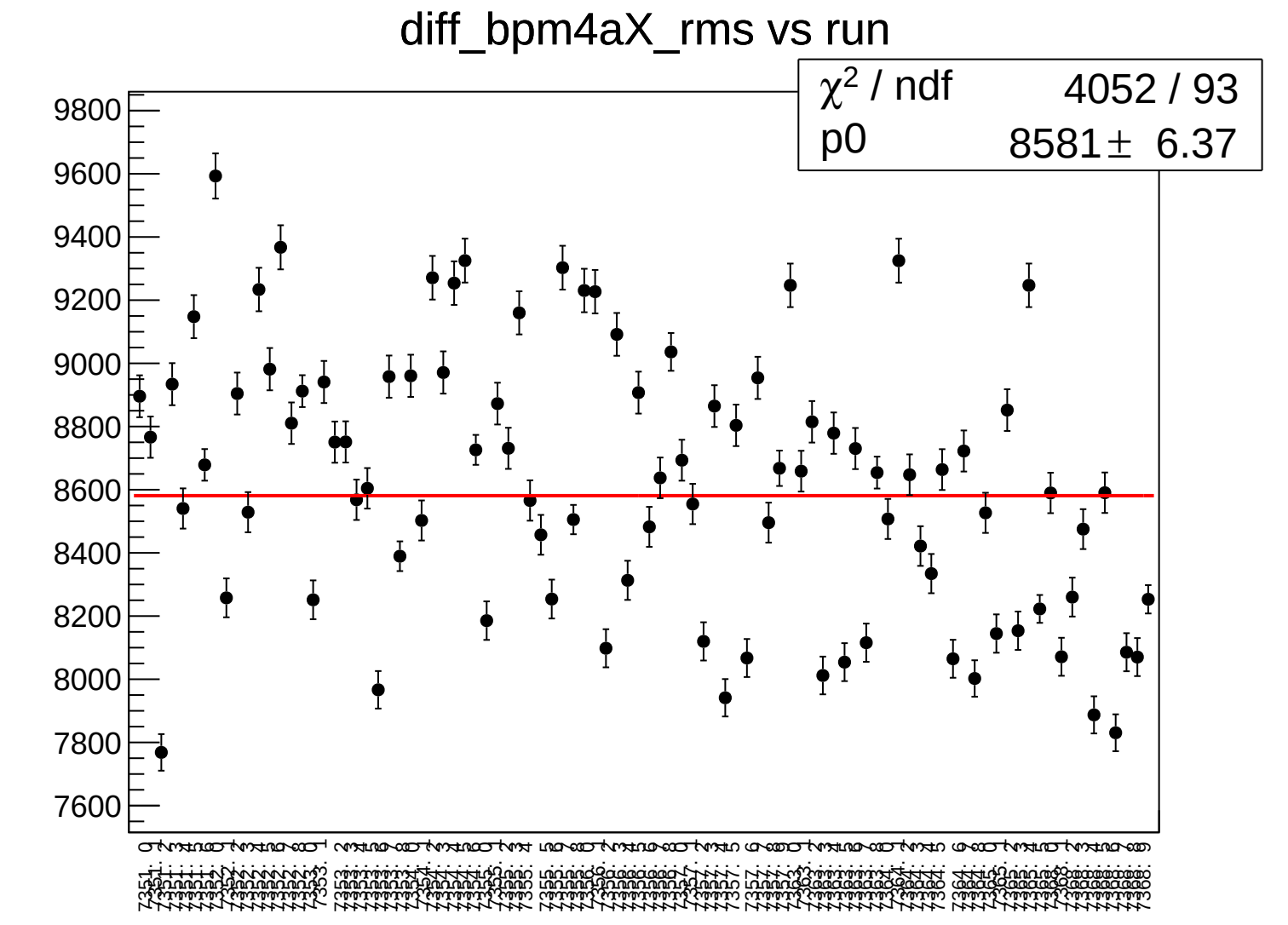

yield_bpm0r05X_rms vs run
χ² / ndf 2461 / 93
p0 0.06837 ± 5.073e–05
0.085
0.08
0.075
0.07
0.065

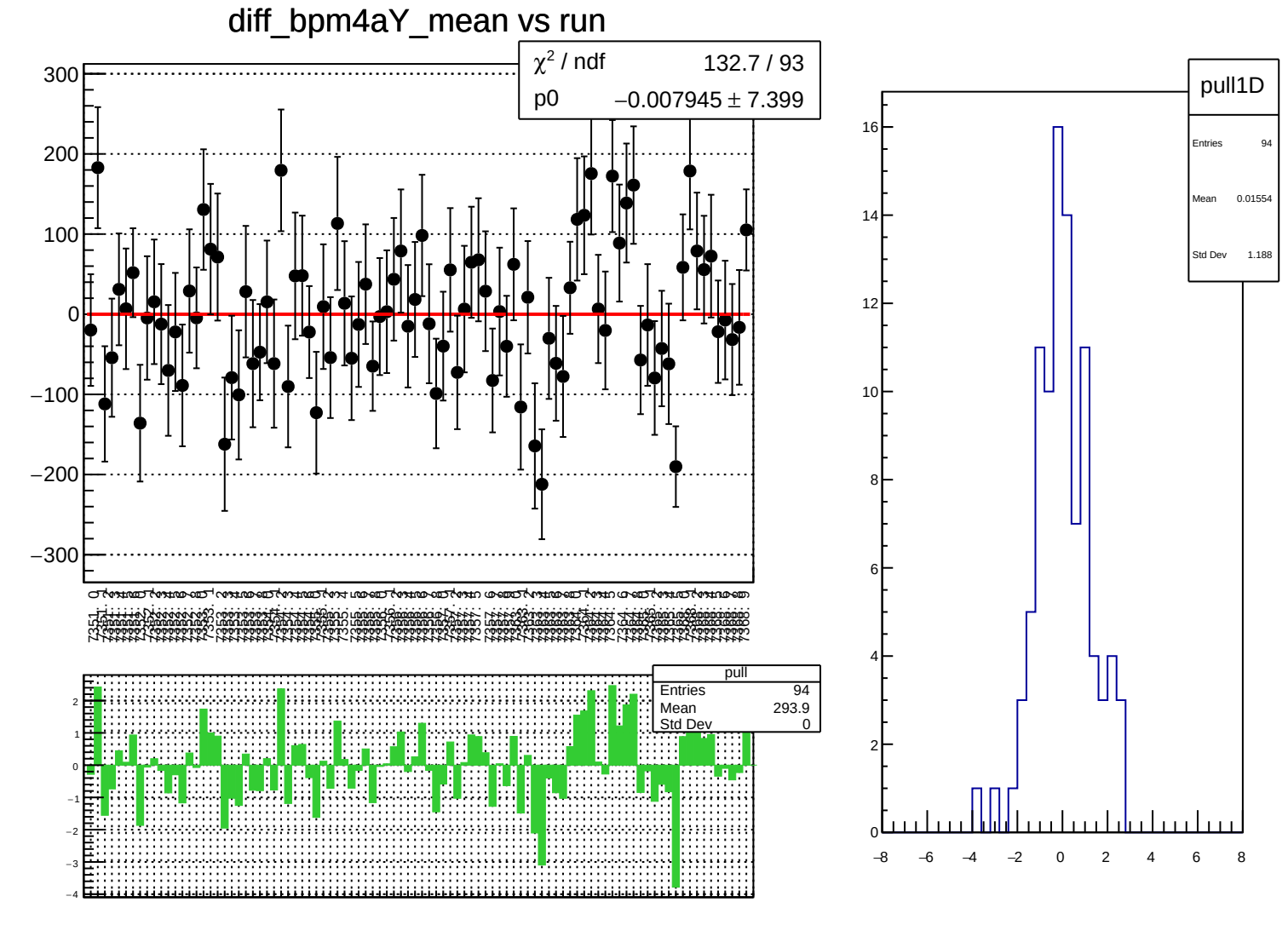

yield_bpm0r05Y_mean vs run
χ² / ndf 7.115e+05 / 93
p0 0.9005 ± 9.934e−06
pull
Entries 94
Mean −761.5
Std Dev 0
pull1D
Entries 94
Mean −0.2971
Std Dev 3.433

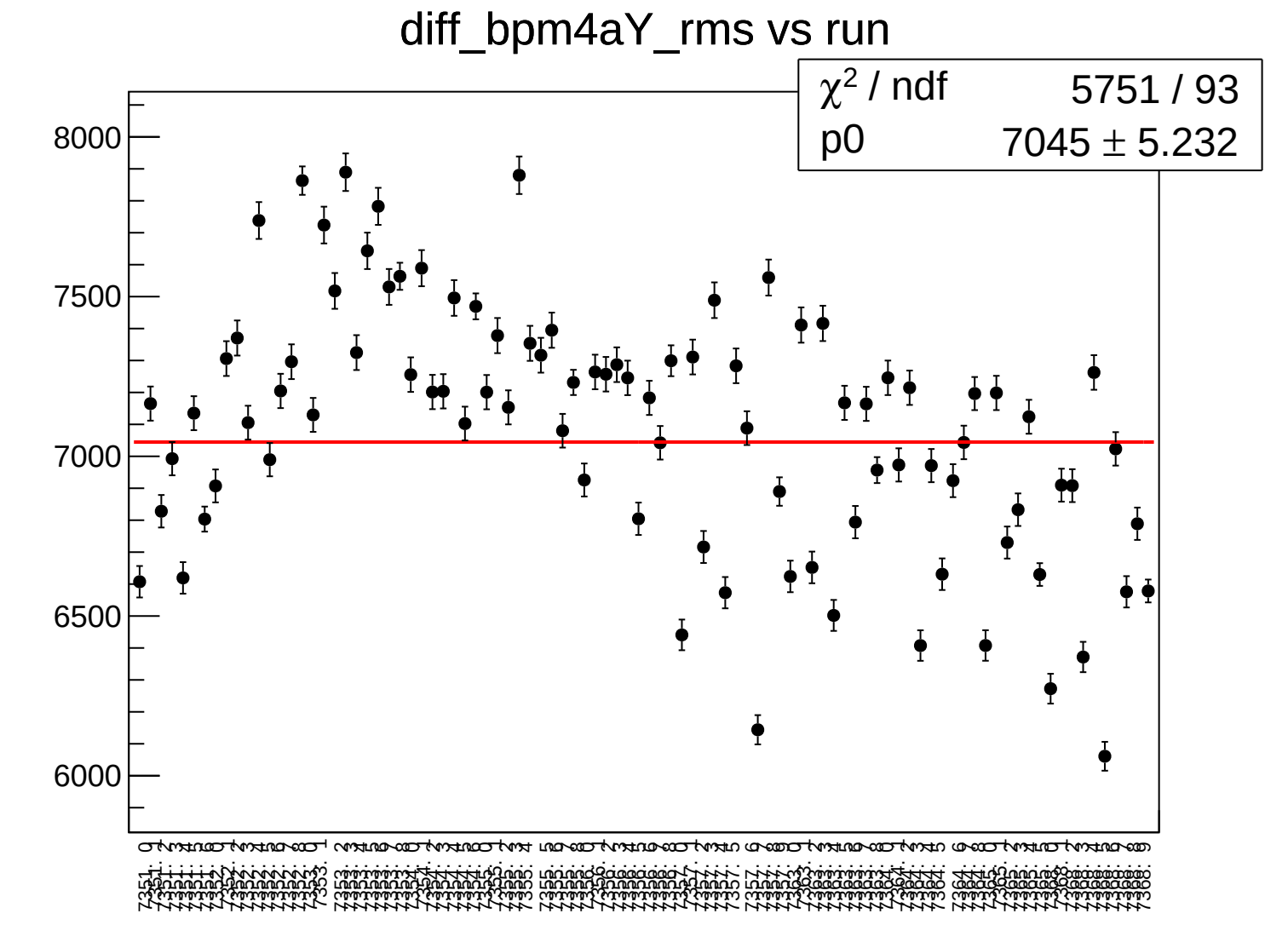

yield_bpm0r05Y_rms vs run
χ² / ndf 8.696e+04 / 93
p0 0.009244 ± 7.025e−06
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

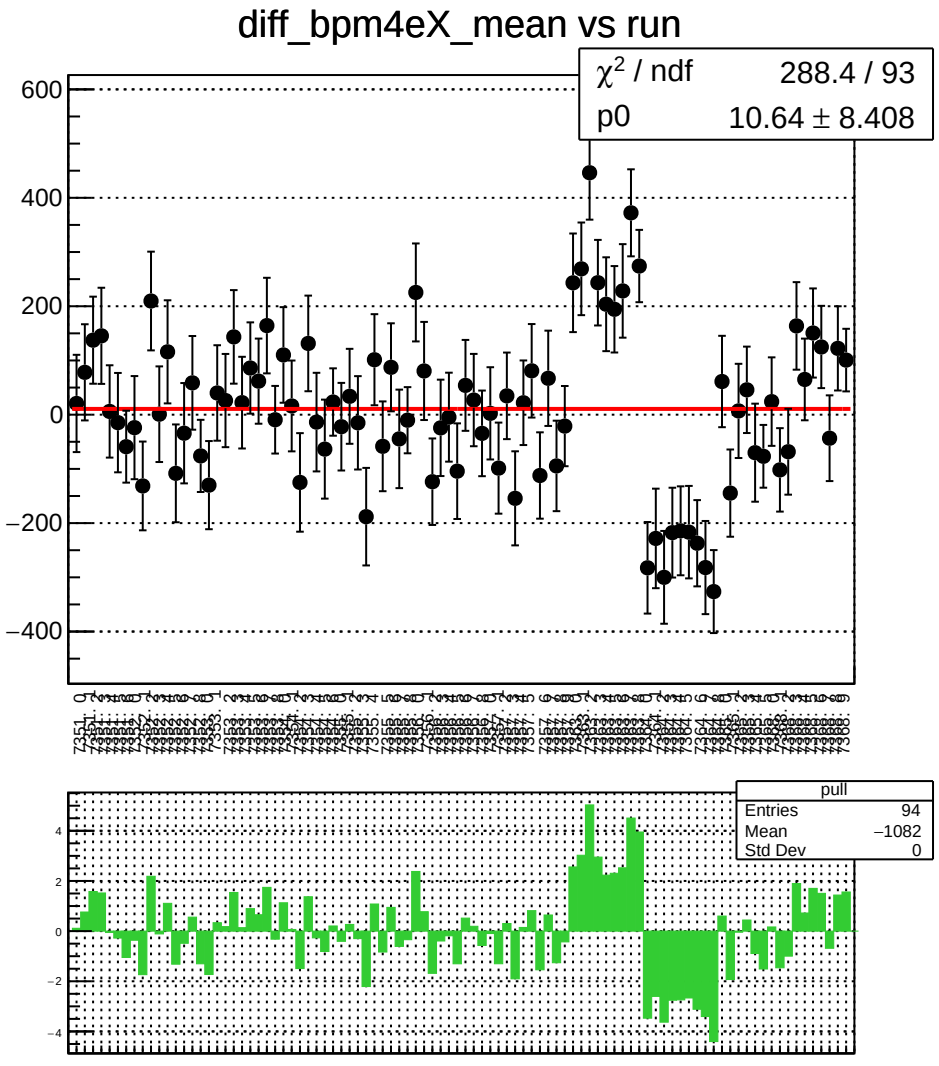

diff_bpm4aX_mean vs run
χ² / ndf 289.7 / 93
p0 13.2 ± 9.009
600
400
200
0
−200
−400
pull
Entries 94
Mean −790.6
Std Dev 0
4
2
0
−2
−4

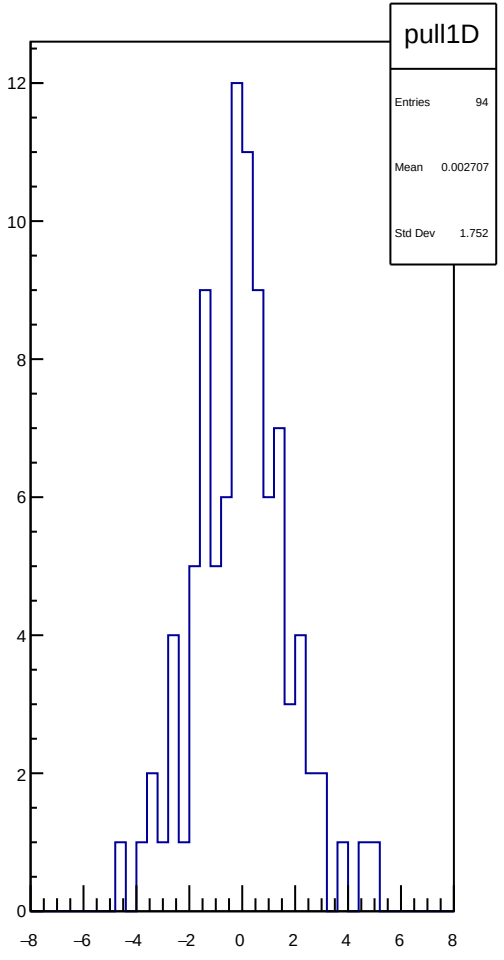

pull1D
Entries 94
Mean 0.00332
Std Dev 1.756
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

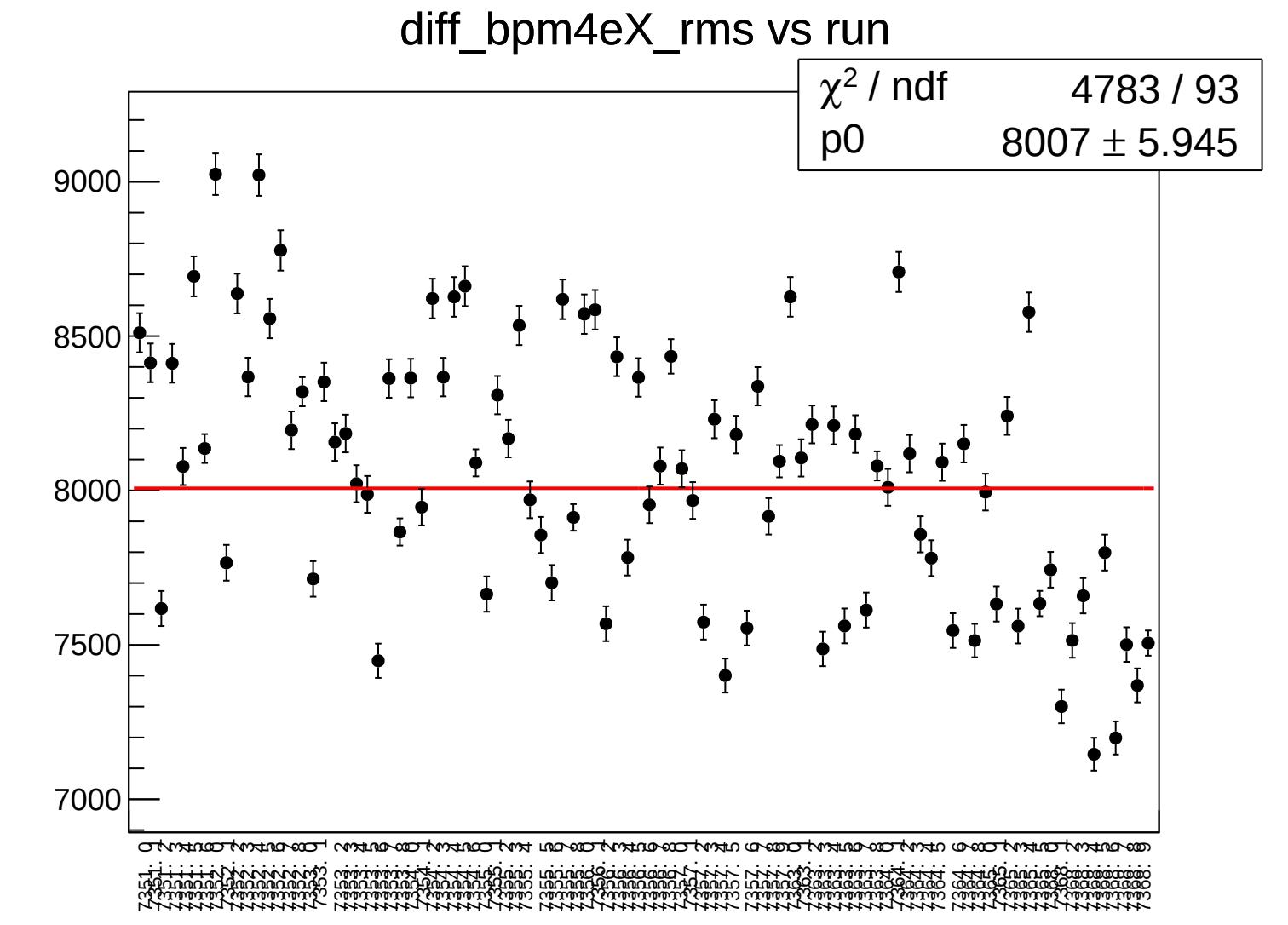

diff_bpm4aX_rms vs run
χ^2 / ndf 4052 / 93
p0 8581 ± 6.37
9800
9600
9400
9200
9000
8800
8600
8400
8200
8000
7800
7600

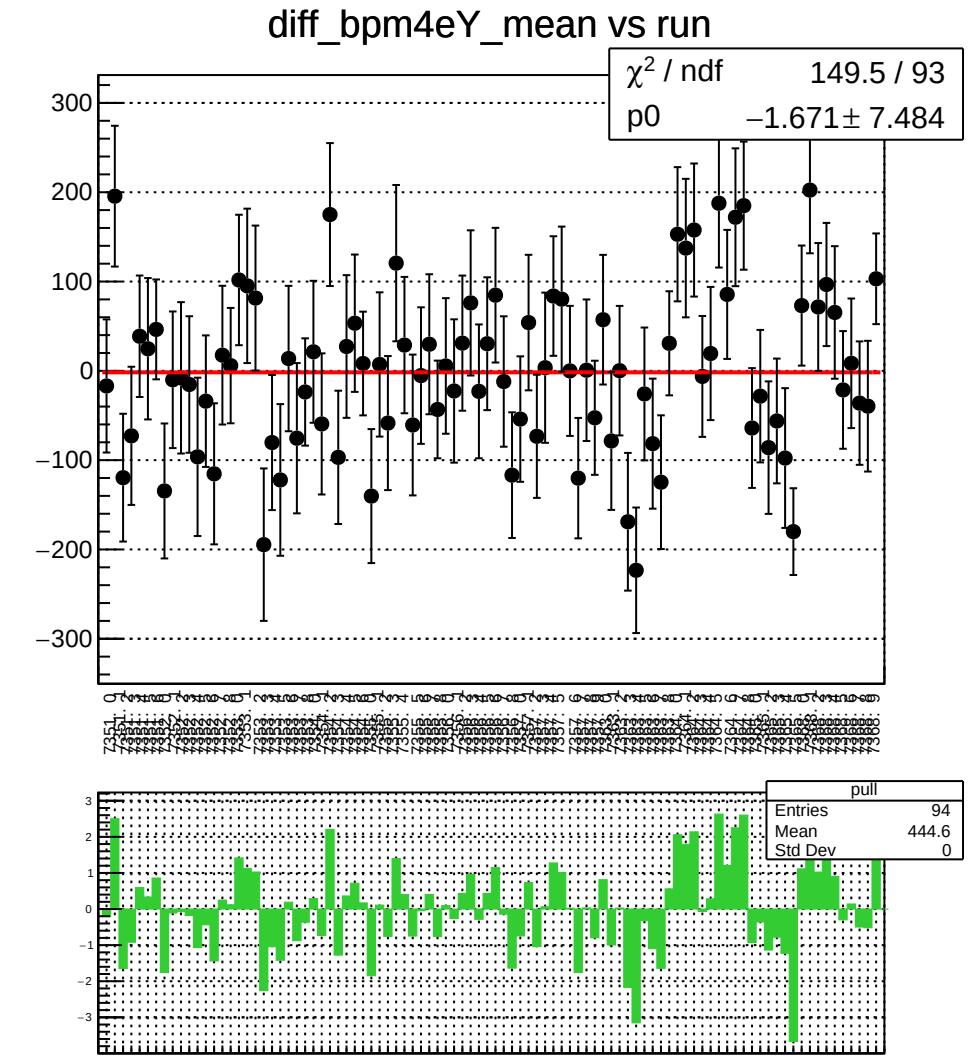

diff_bpm4aY_mean vs run
χ² / ndf 132.7 / 93
p0 −0.007945 ± 7.399
300
200
100
0
−100
−200
−300
pull
Entries 94
Mean 293.9
Std Dev 0
2
1
0
−1
−2
−3
−4
pull1D
Entries 94
Mean 0.01554
Std Dev 1.188
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

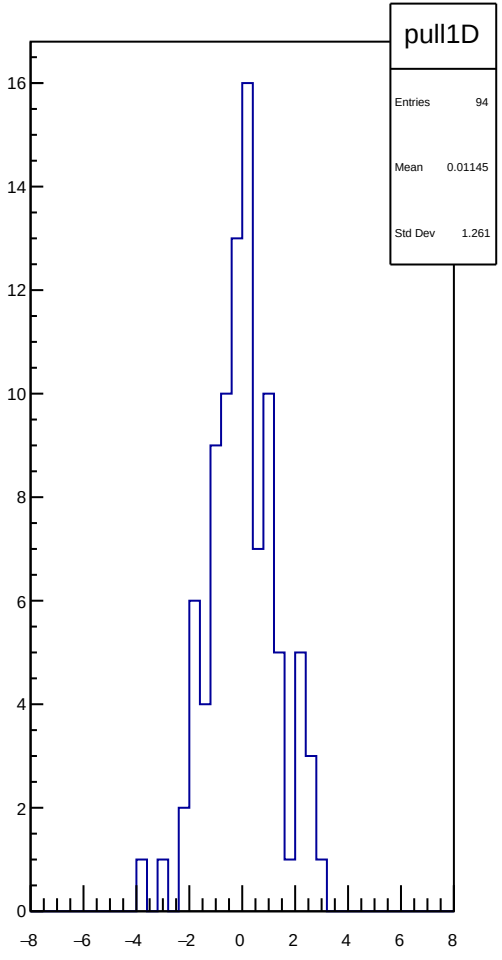

diff_bpm4aY_rms vs run
χ² / ndf 5751 / 93
p0 7045 ± 5.232
8000
7500
7000
6500
6000

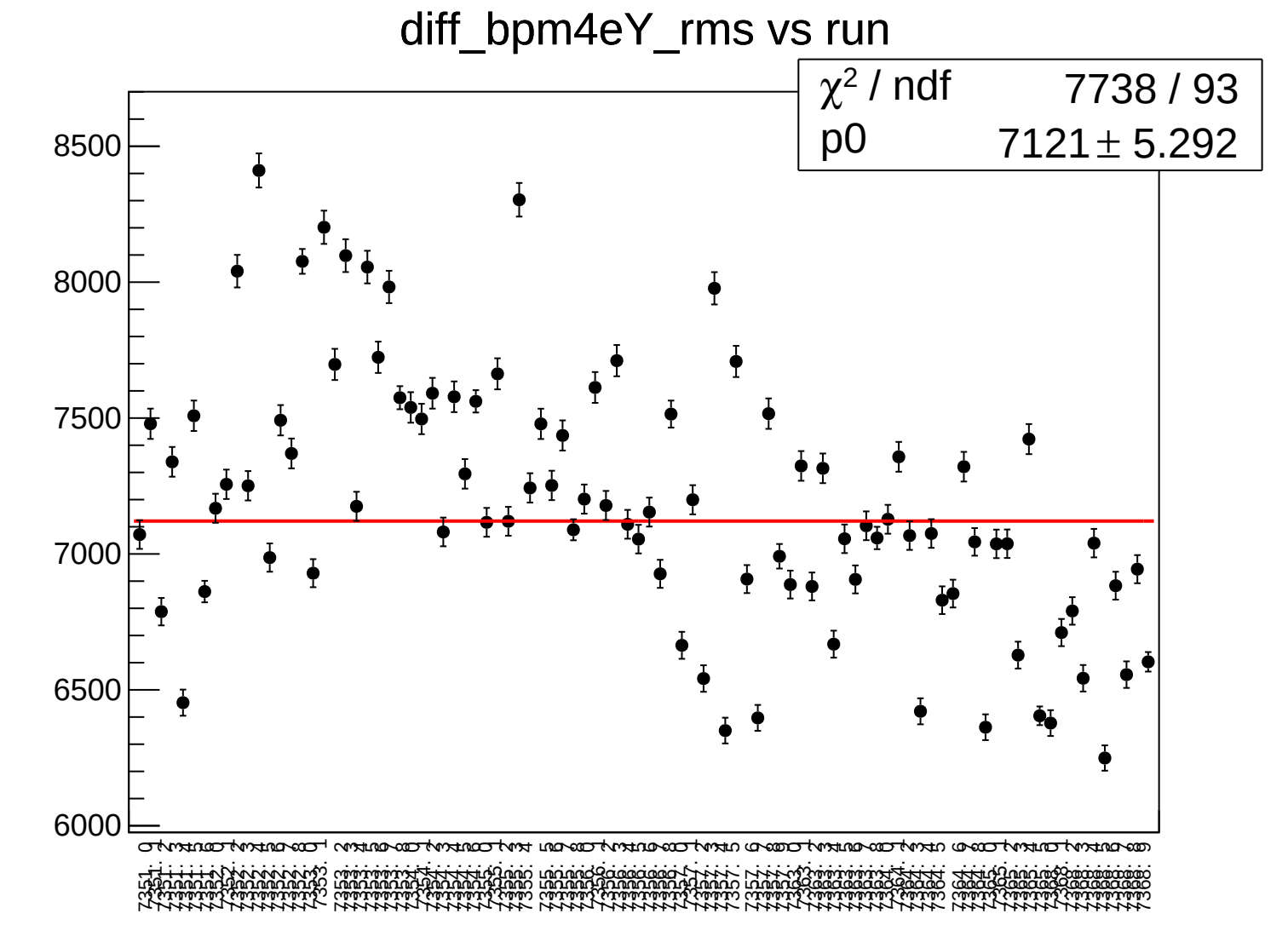

diff_bpm4eX_mean vs run
χ² / ndf 288.4 / 93
p0 10.64 ± 8.408
pull
Entries 94
Mean −1082
Std Dev 0

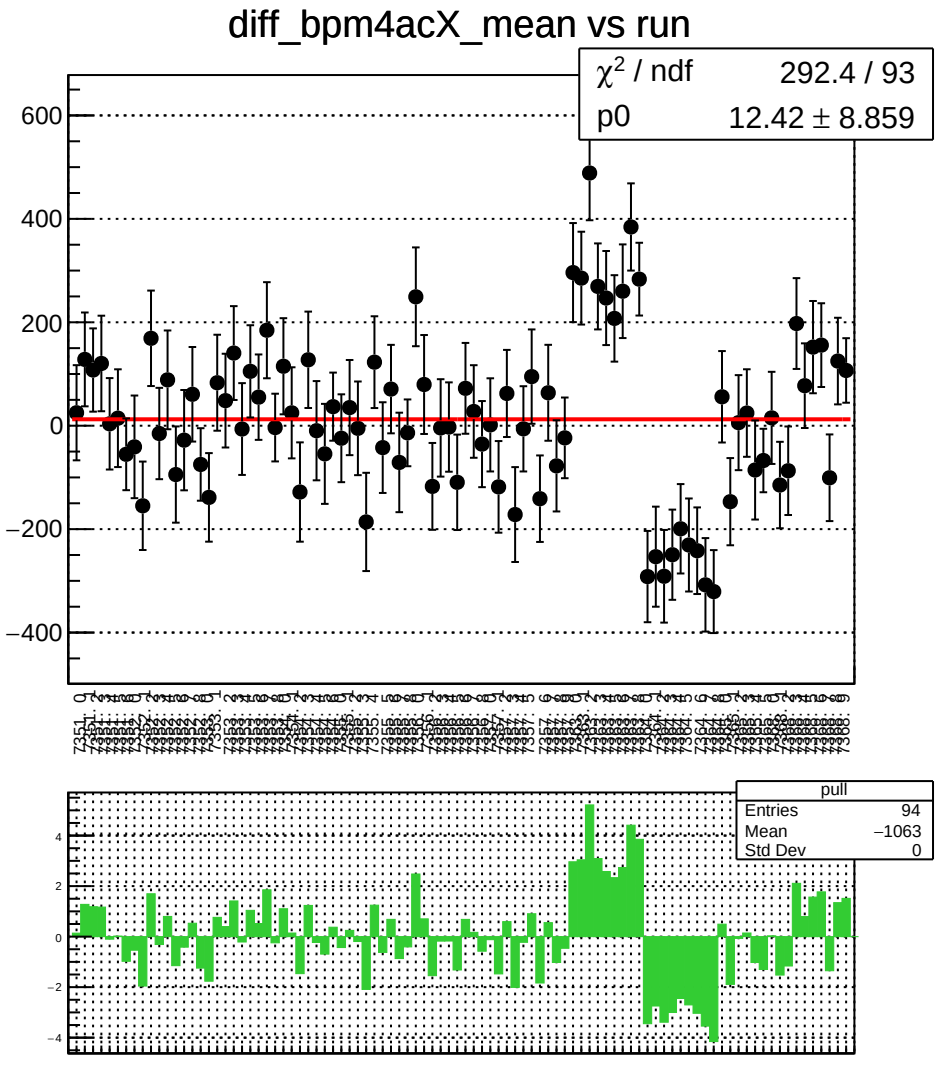

pull1D
Entries 94
Mean 0.002707
Std Dev 1.752

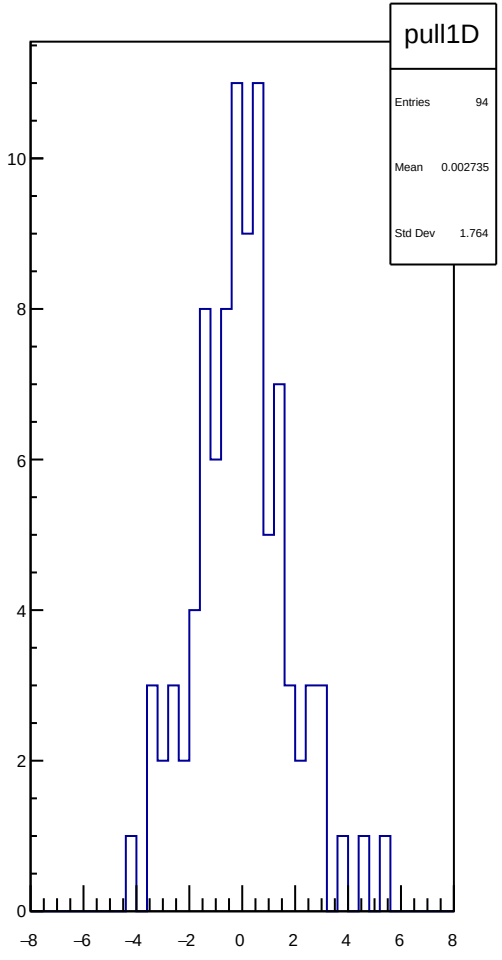

diff_bpm4eX_rms vs run
χ^2 / ndf 4783 / 93
p0 8007 ± 5.945
9000
8500
8000
7500
7000

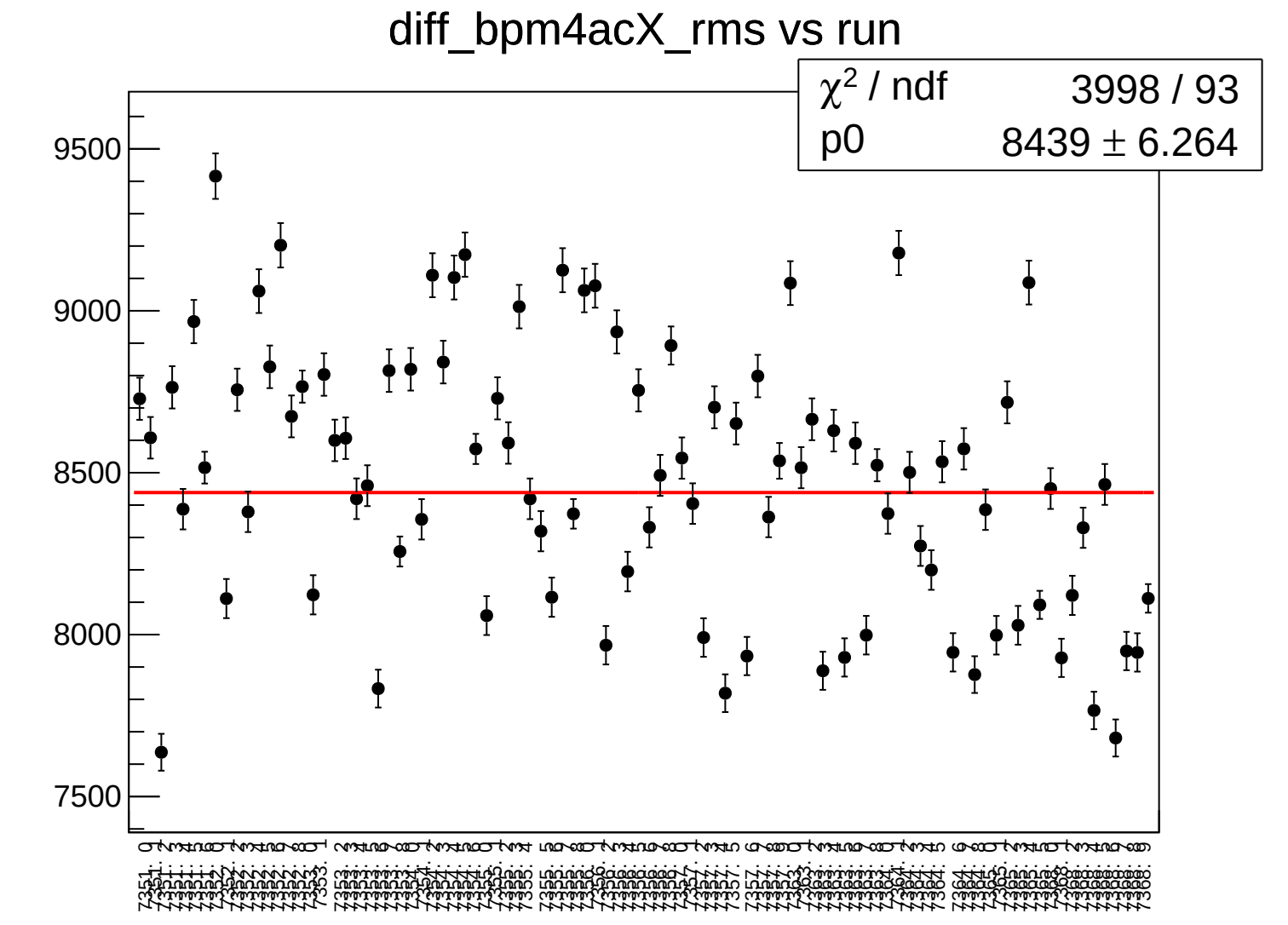

diff_bpm4eY_mean vs run
χ² / ndf 149.5 / 93
p0 −1.671± 7.484
300
200
100
0
−100
−200
−300
pull
Entries 94
Mean 444.6
Std Dev 0
3
2
1
0
−1
−2
−3

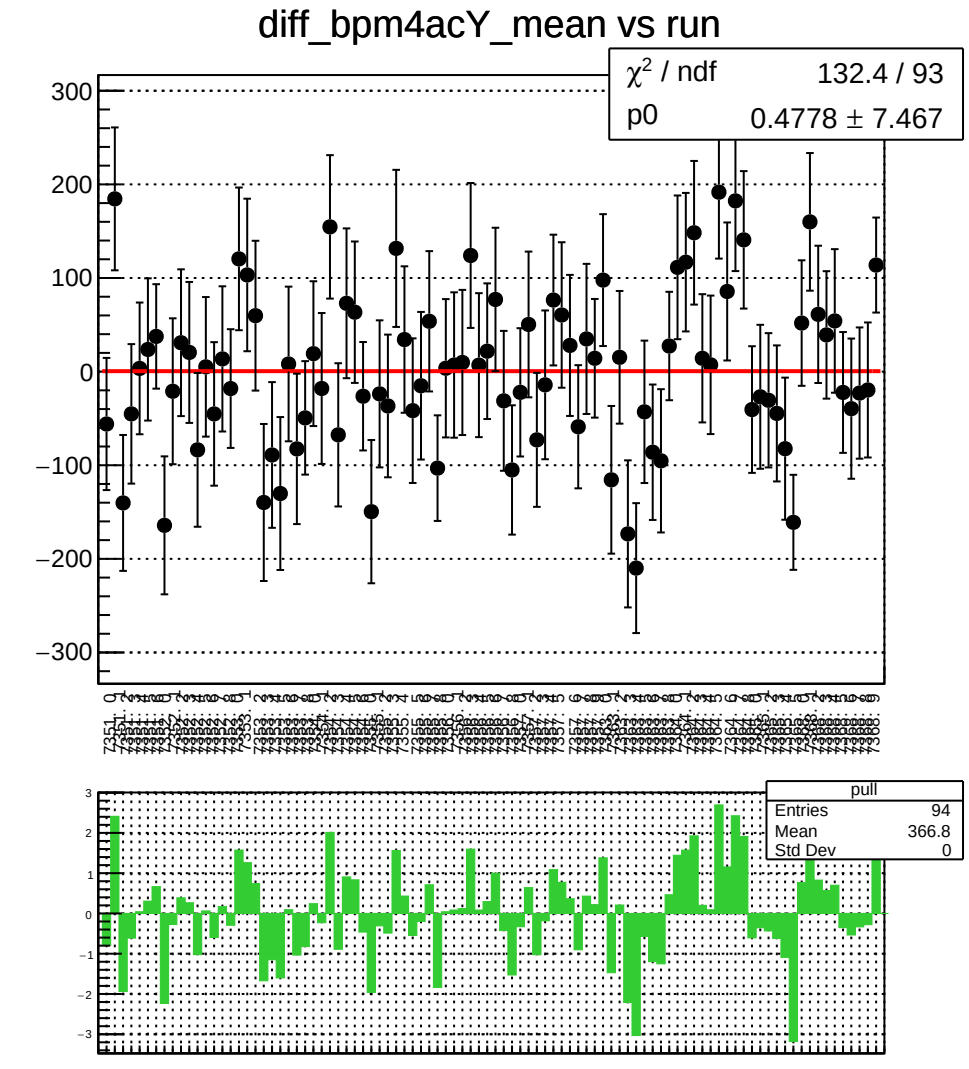

pull1D
Entries 94
Mean 0.01145
Std Dev 1.261
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

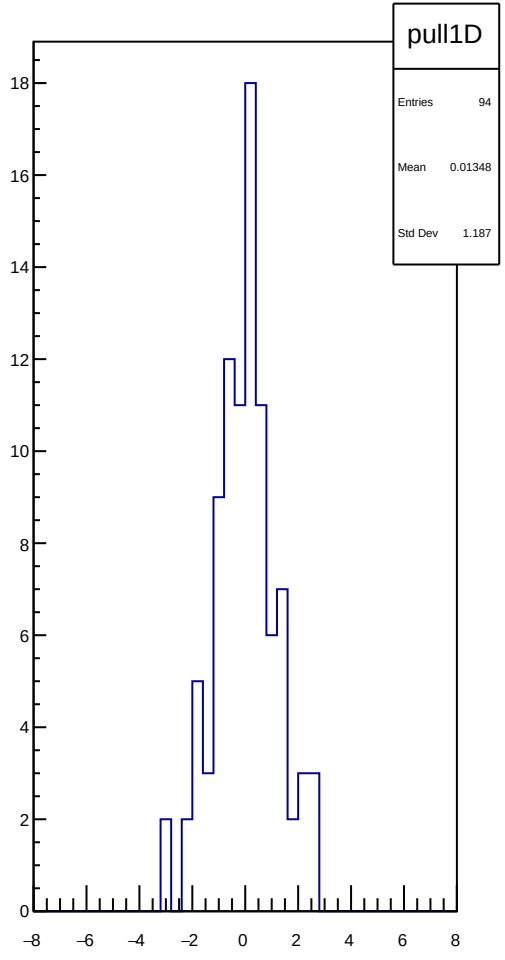

diff_bpm4eY_rms vs run
χ² / ndf 7738 / 93
p0 7121 ± 5.292
8500
8000
7500
7000
6500
6000

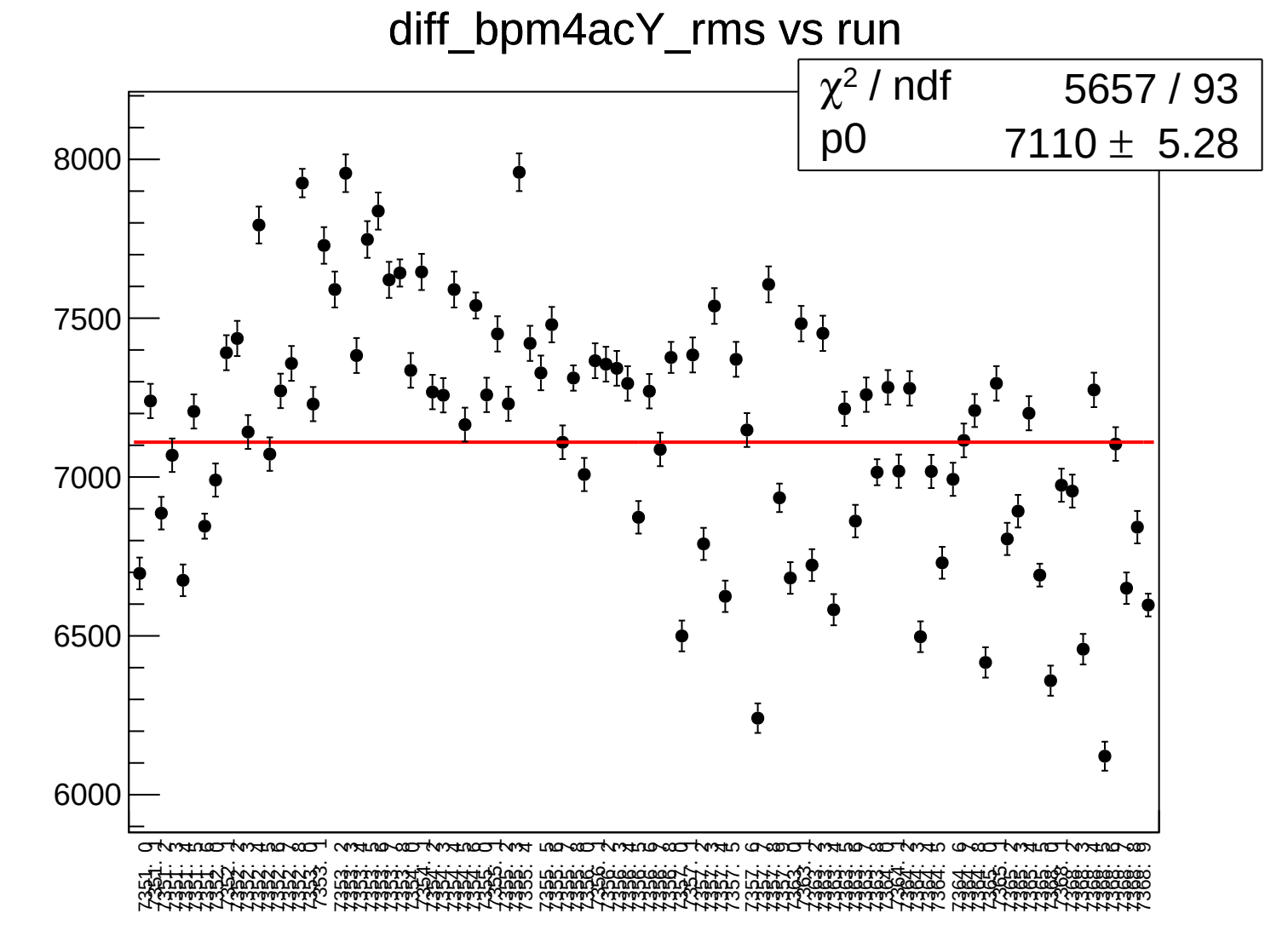

diff_bpm4acX_mean vs run
χ² / ndf 292.4 / 93
p0 12.42 ± 8.859
pull
Entries 94
Mean −1063
Std Dev 0

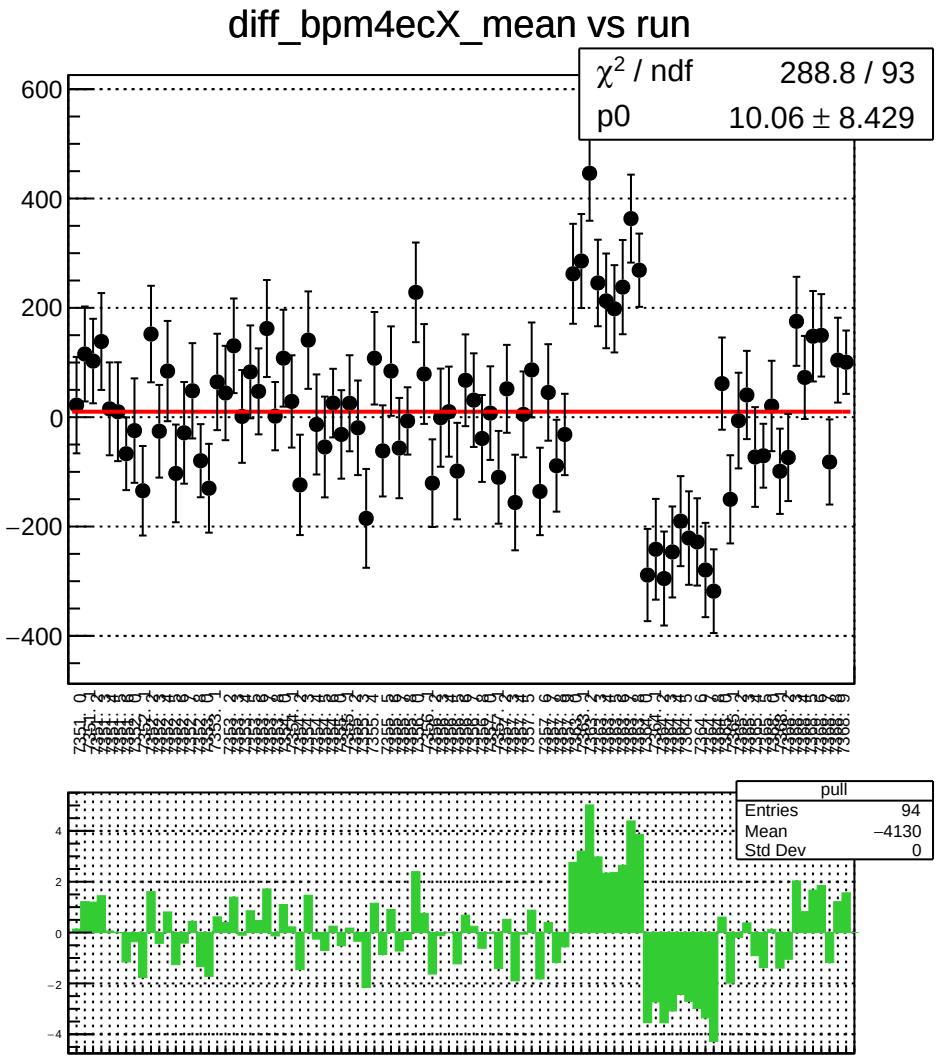

pull1D
Entries 94
Mean 0.002735
Std Dev 1.764

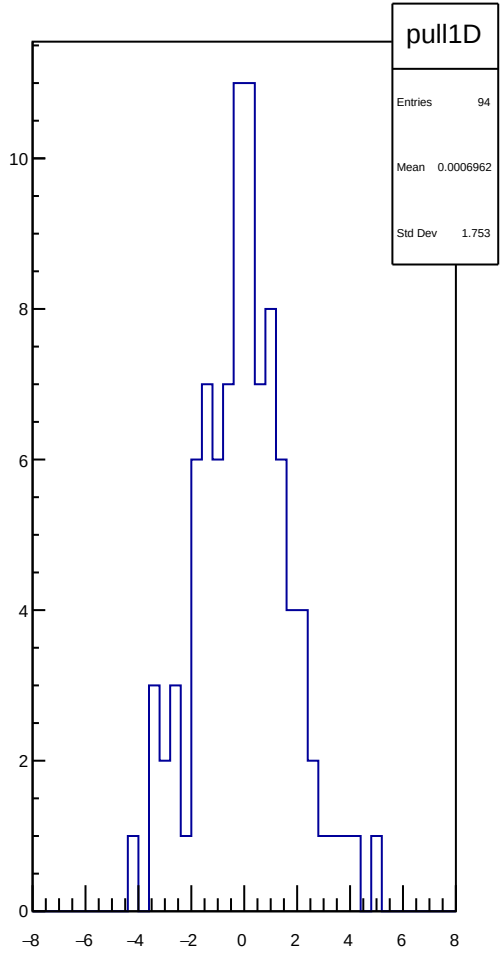

diff_bpm4acX_rms vs run
χ² / ndf 3998 / 93
p0 8439 ± 6.264
9500
9000
8500
8000
7500

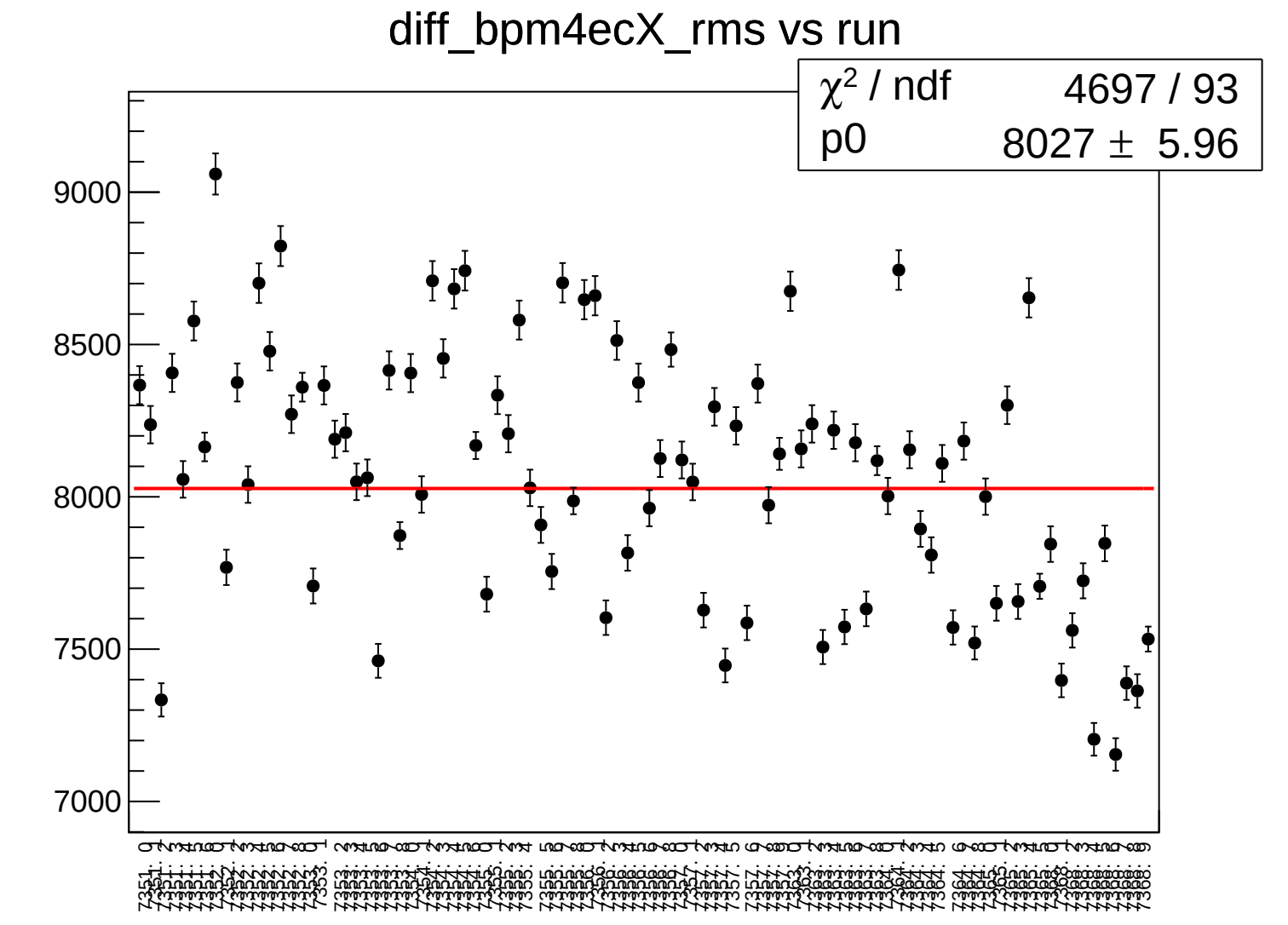

diff_bpm4acY_mean vs run
χ² / ndf 132.4 / 93
p0 0.4778 ± 7.467
300
200
100
0
−100
−200
−300
pull
Entries 94
Mean 366.8
Std Dev 0
3
2
1
0
−1
−2
−3

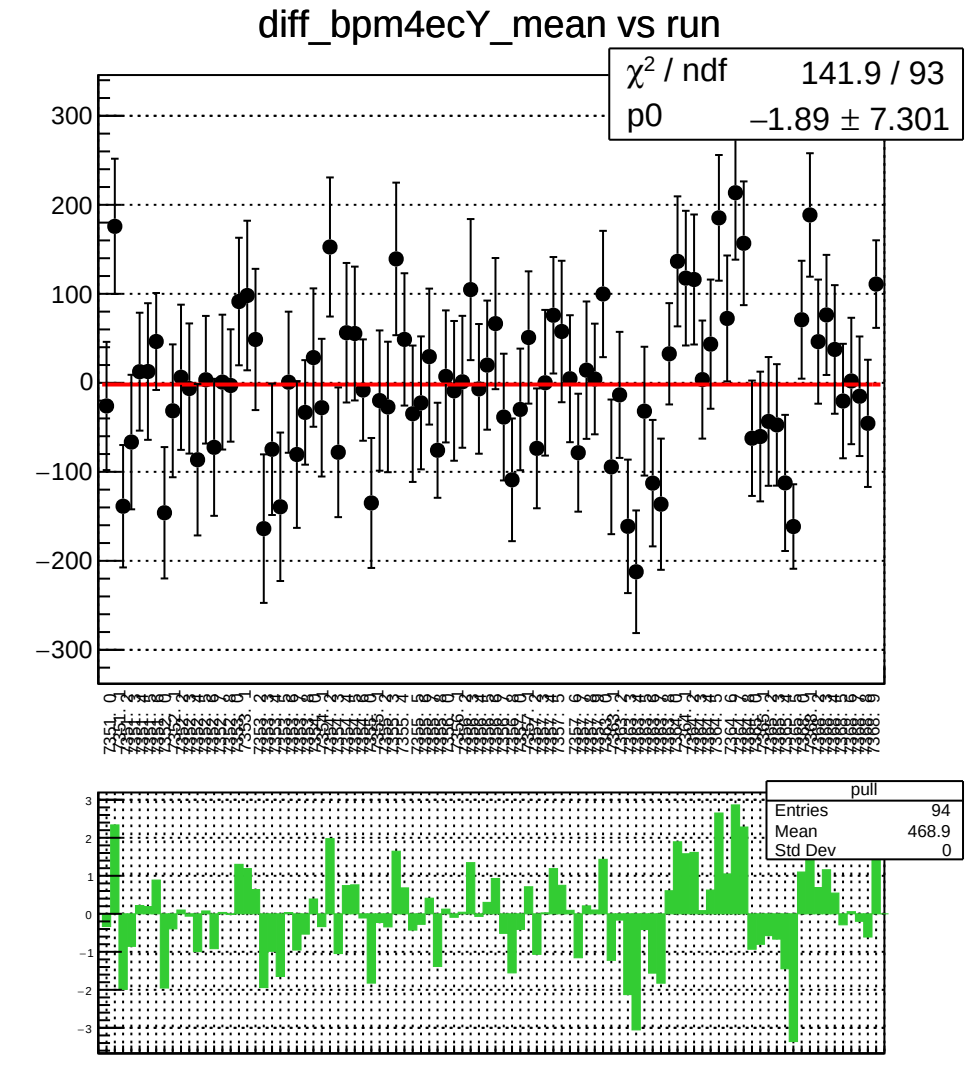

pull1D
Entries 94
Mean 0.01348
Std Dev 1.187
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

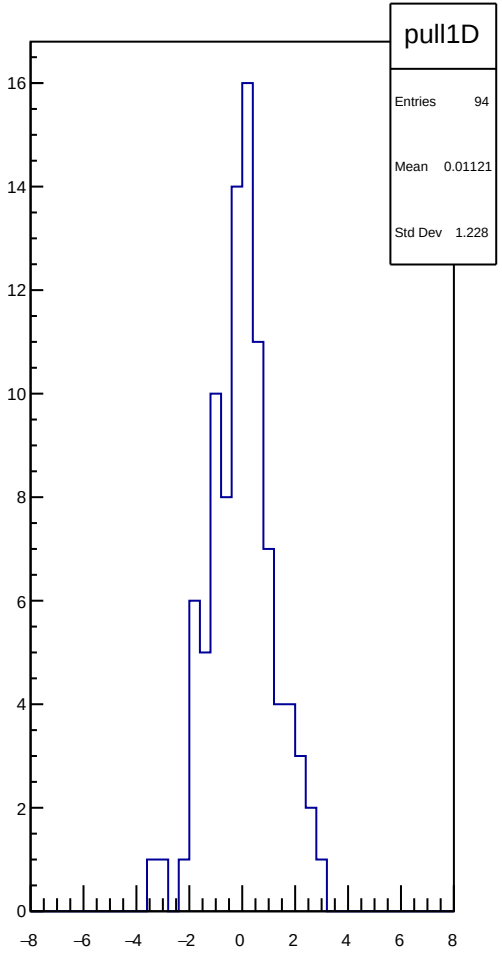

diff_bpm4acY_rms vs run
χ² / ndf 5657 / 93
p0 7110 ± 5.28
8000
7500
7000
6500
6000

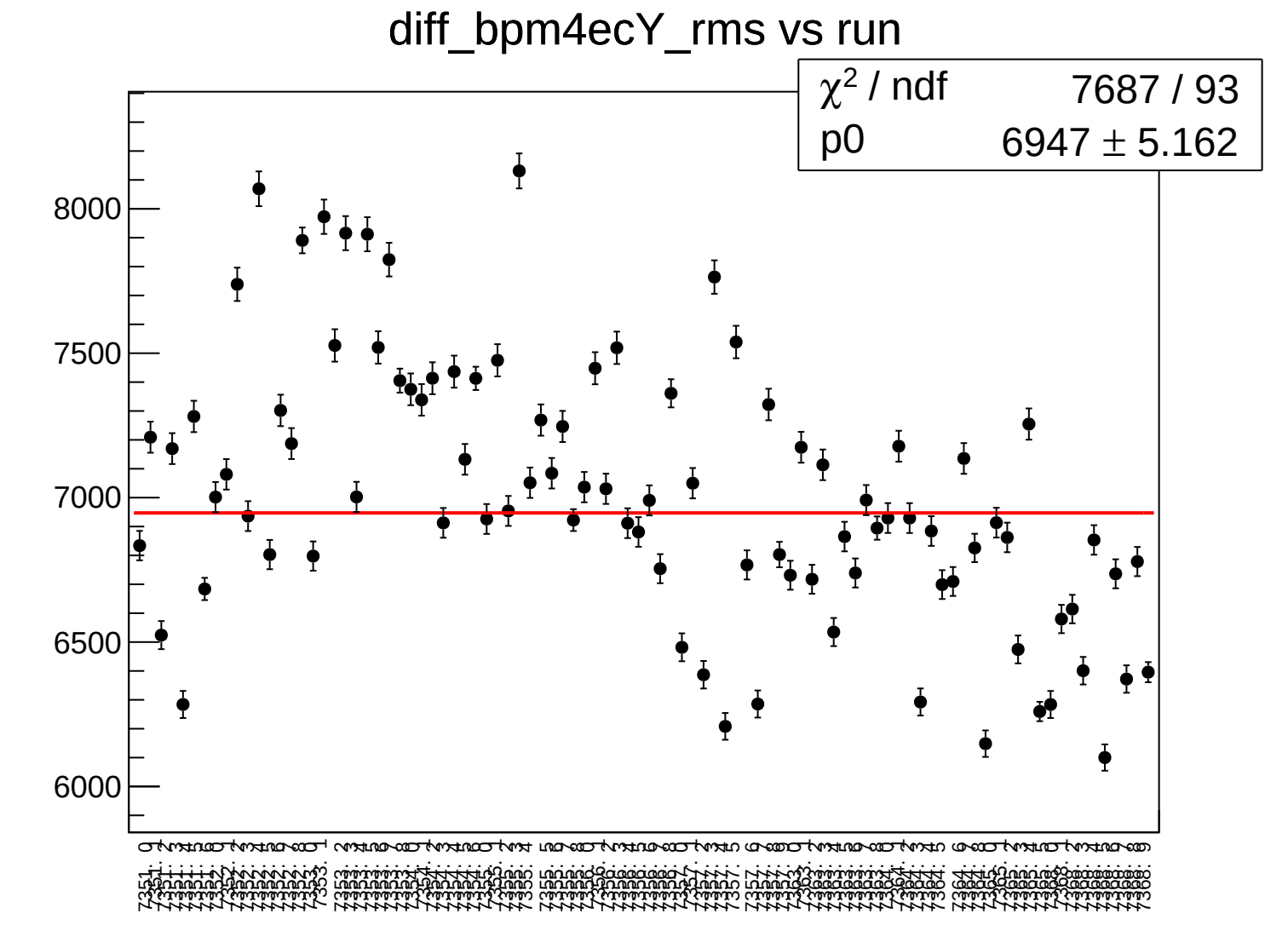

diff_bpm4ecX_mean vs run
χ² / ndf 288.8 / 93
p0 10.06 ± 8.429
600
400
200
0
−200
−400
pull
Entries 94
Mean −4130
Std Dev 0
4
2
0
−2
−4

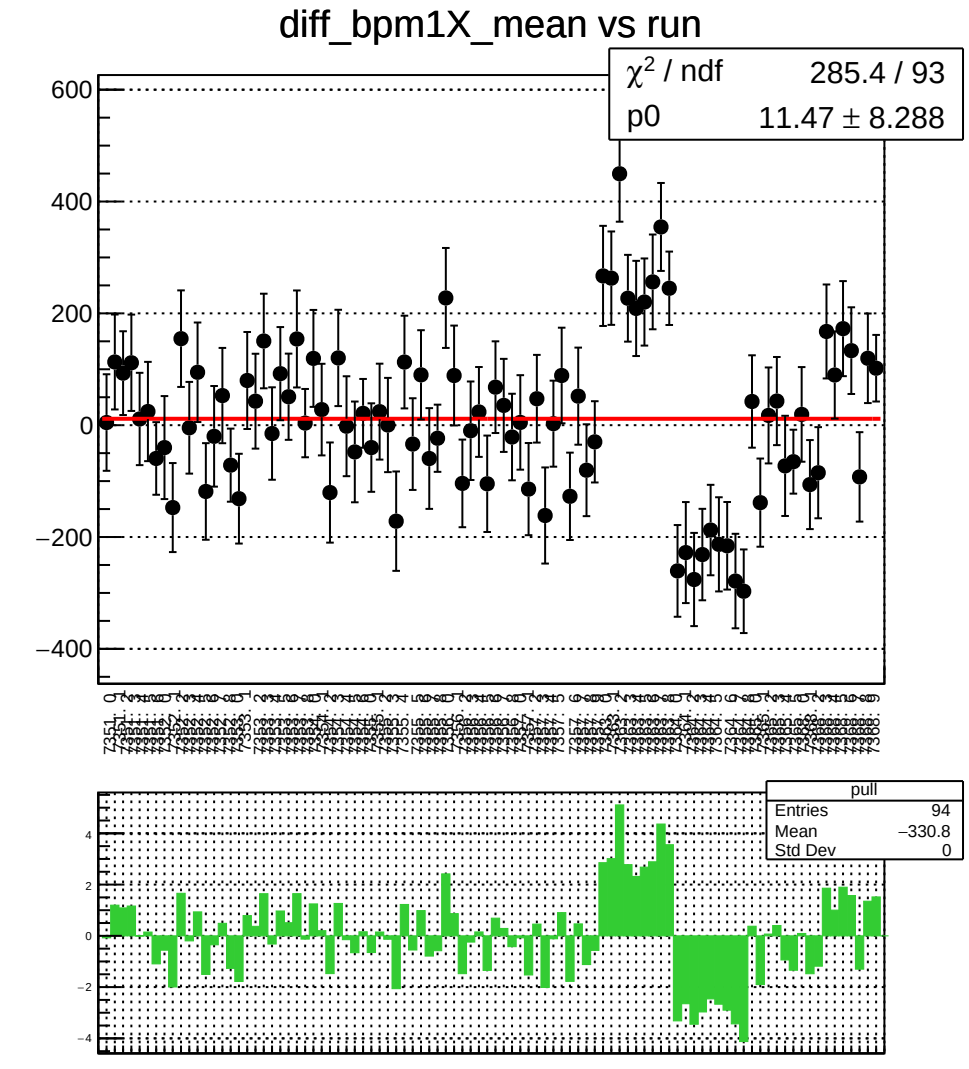

pull1D
Entries 94
Mean 0.0006962
Std Dev 1.753
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

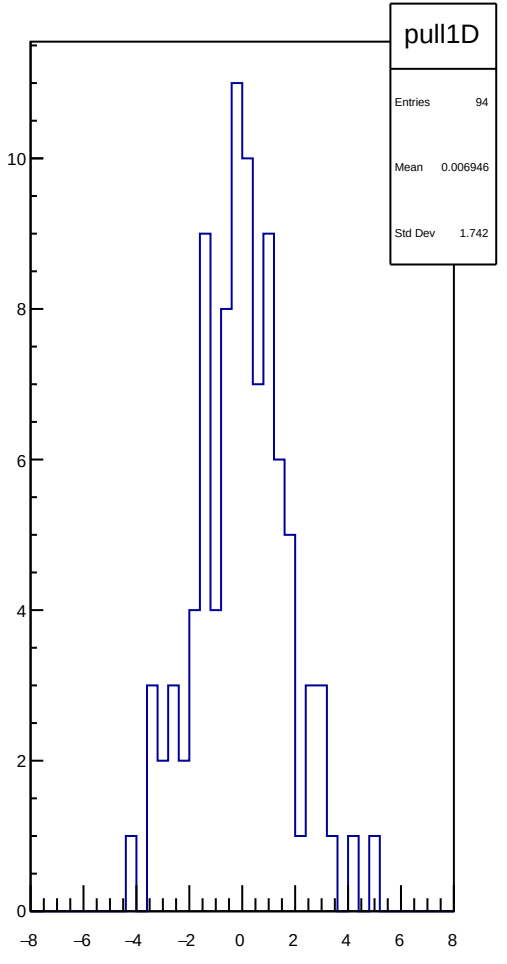

diff_bpm4ecX_rms vs run
χ² / ndf 4697 / 93
p0 8027 ± 5.96
9000
8500
8000
7500
7000

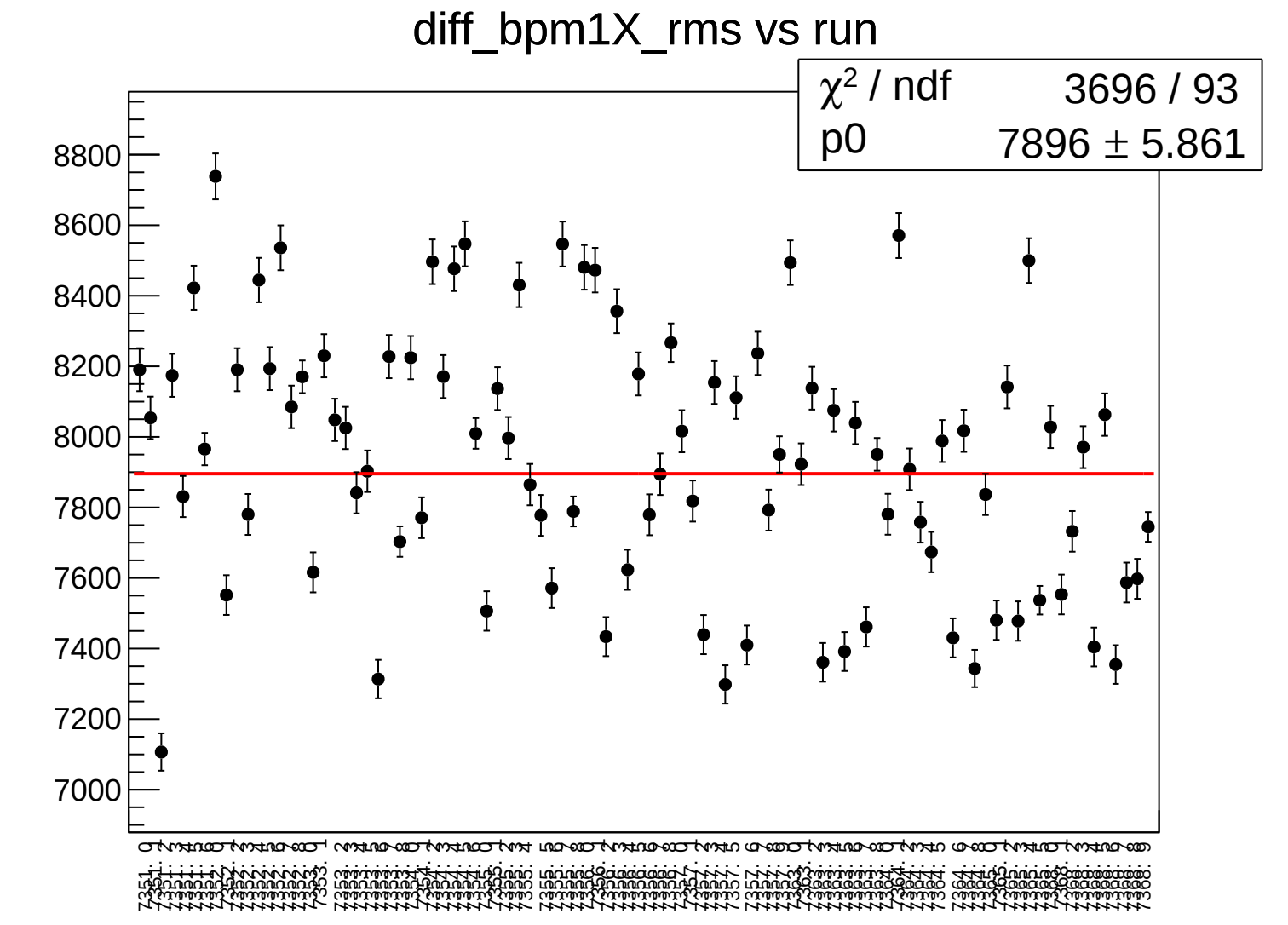

diff_bpm4ecY_mean vs run
χ² / ndf 141.9 / 93
p0 −1.89 ± 7.301
pull
Entries 94
Mean 468.9
Std Dev 0

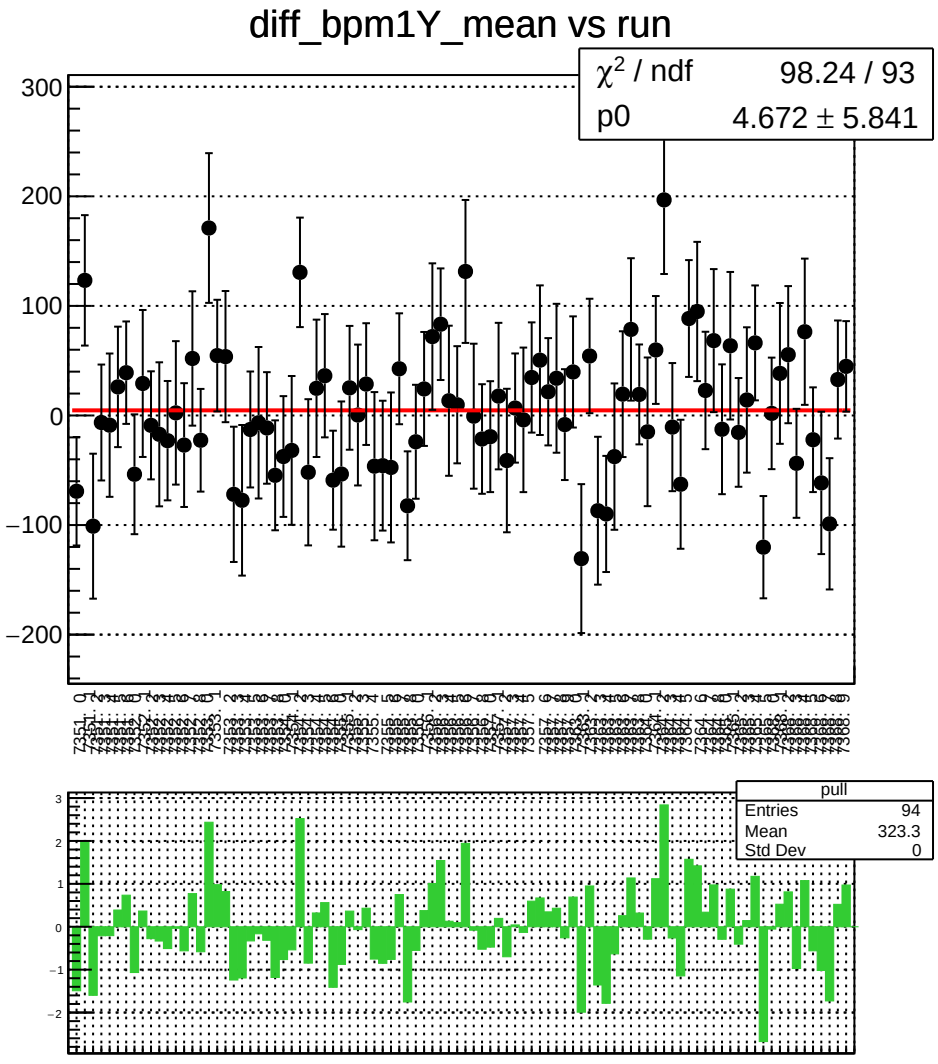

pull1D
Entries 94
Mean 0.01121
Std Dev 1.228

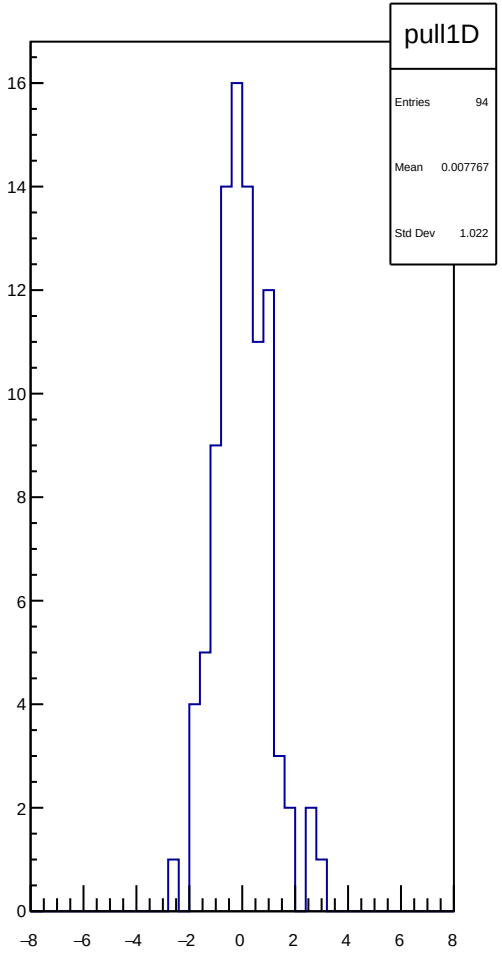

diff_bpm4ecY_rms vs run
χ² / ndf 7687 / 93
p0 6947 ± 5.162
8000
7500
7000
6500
6000

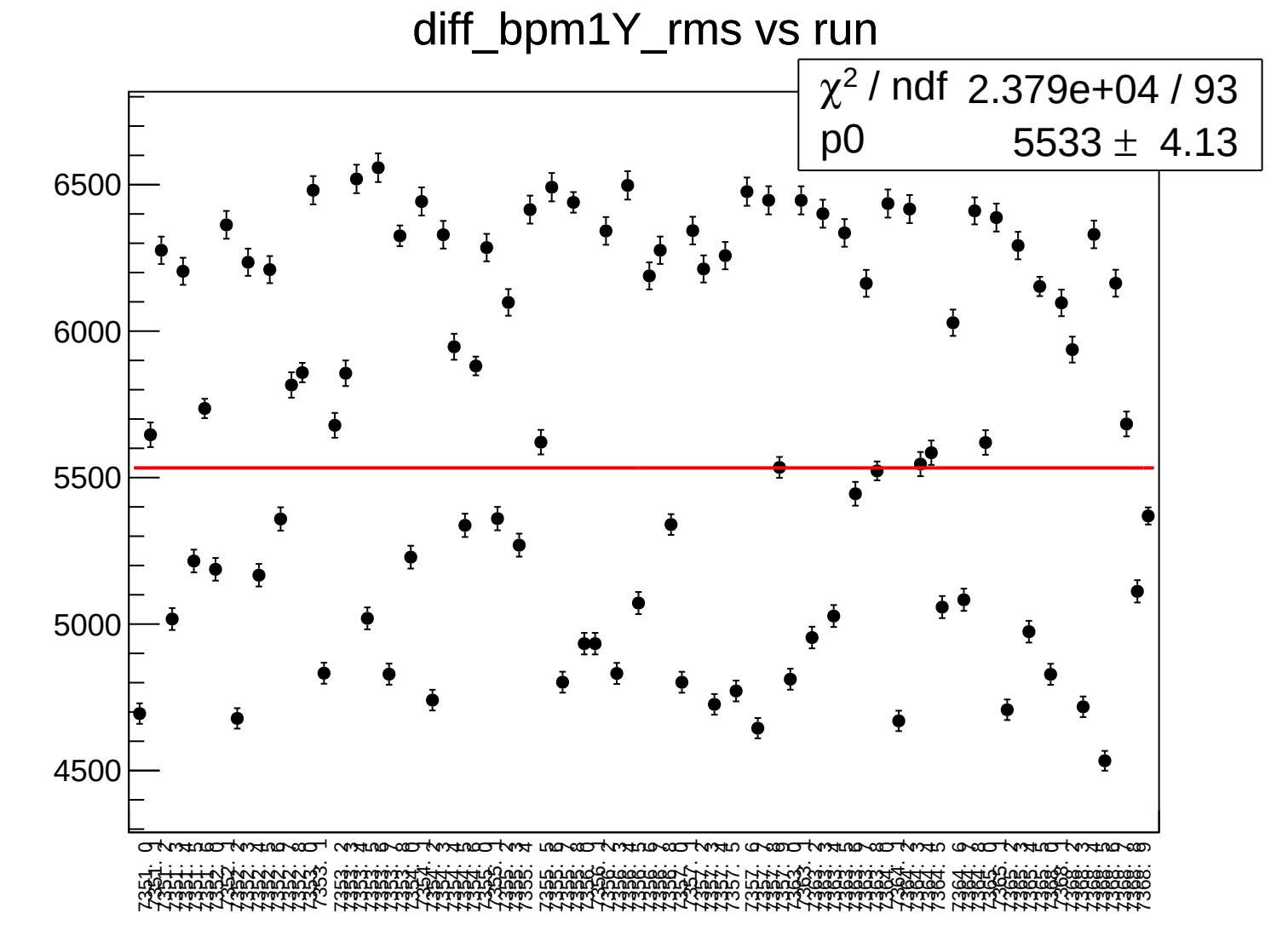

diff_bpm1X_mean vs run
χ² / ndf 285.4 / 93
p0 11.47 ± 8.288
600
400
200
0
−200
−400
pull
Entries 94
Mean −330.8
Std Dev 0
4
2
0
−2
−4

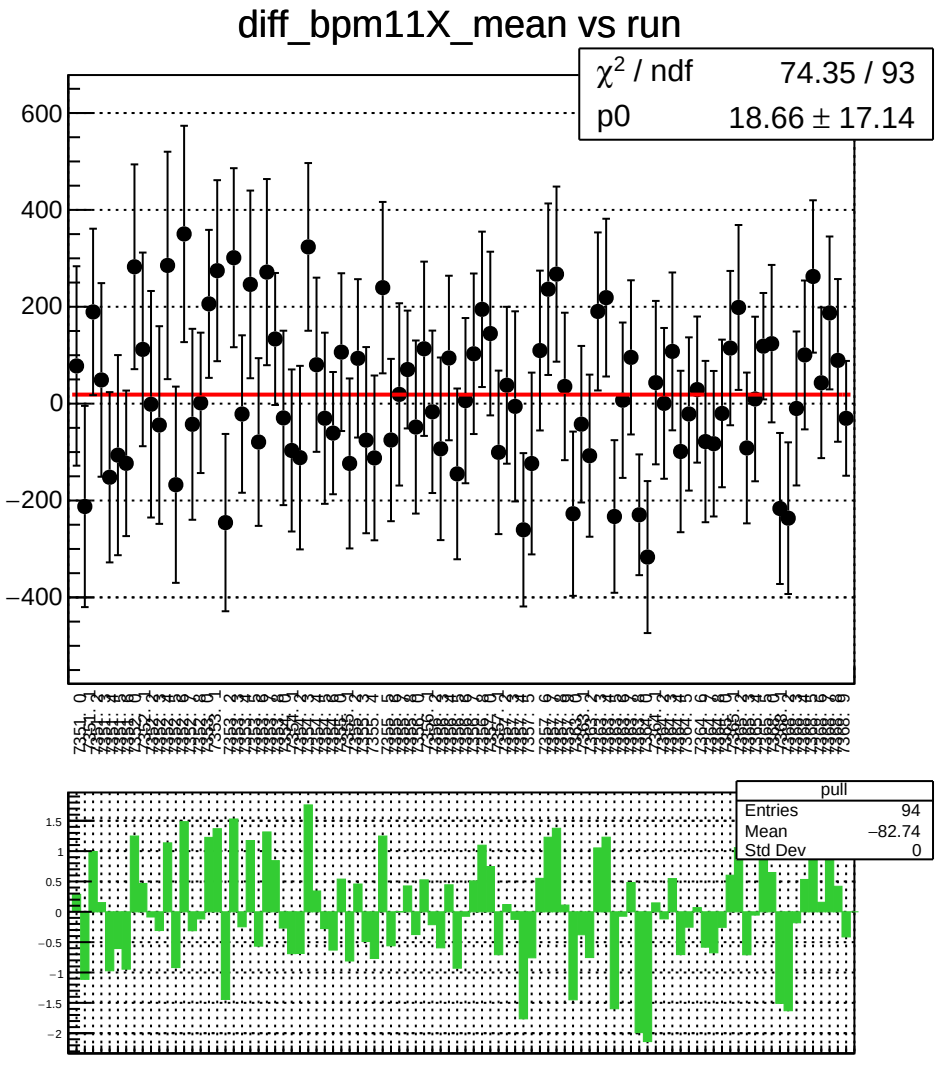

pull1D
Entries 94
Mean 0.006946
Std Dev 1.742
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

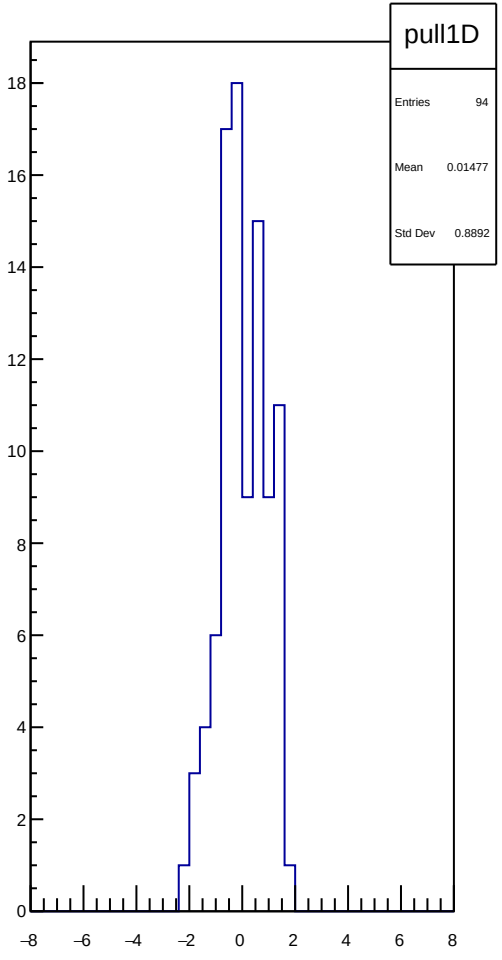

diff_bpm1X_rms vs run
χ² / ndf 3696 / 93
p0 7896 ± 5.861
8800
8600
8400
8200
8000
7800
7600
7400
7200
7000

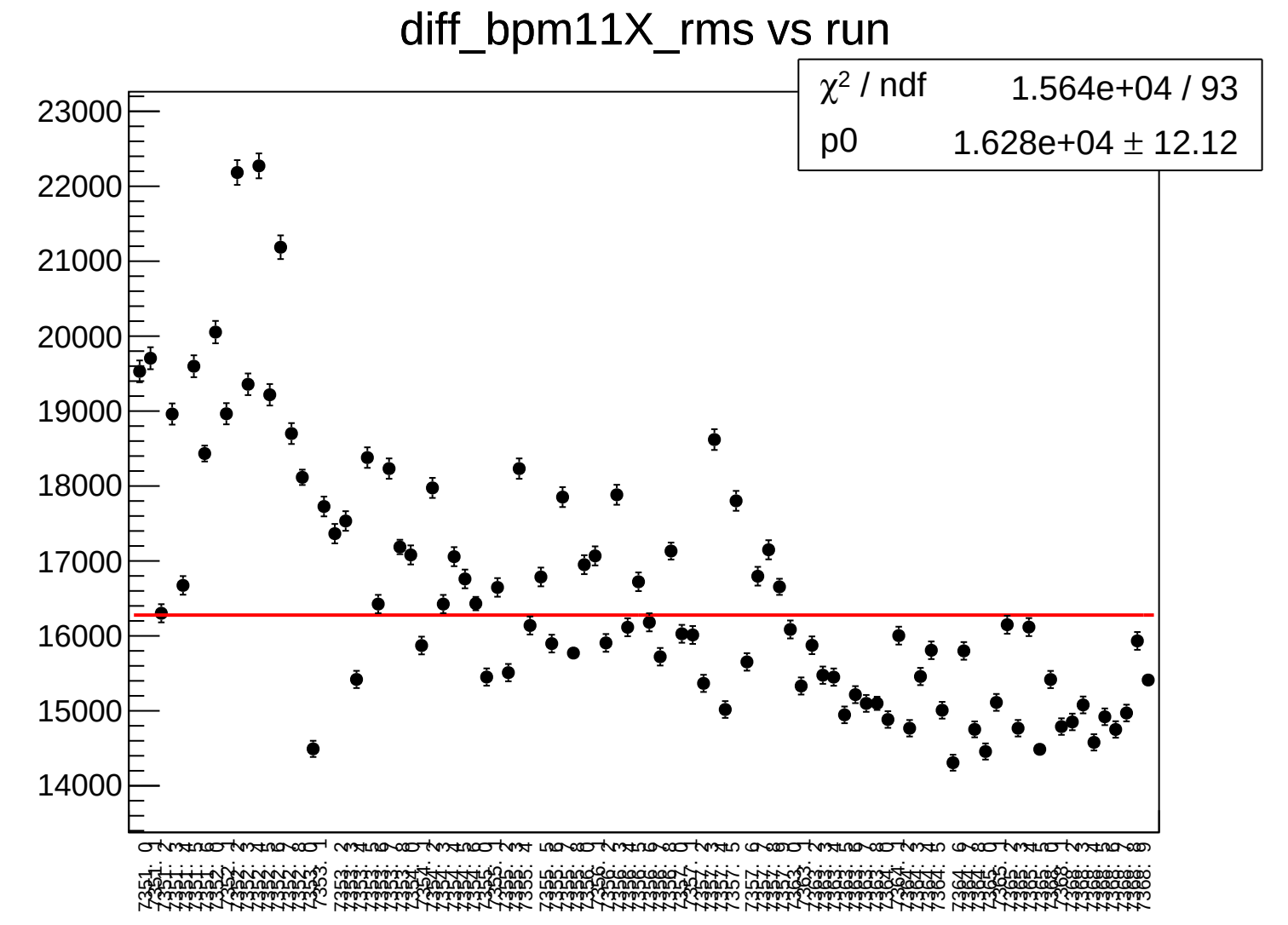

diff_bpm1Y_mean vs run
χ² / ndf 98.24 / 93
p0 4.672 ± 5.841
300
200
100
0
−100
−200
pull
Entries 94
Mean 323.3
Std Dev 0
3
2
1
0
−1
−2

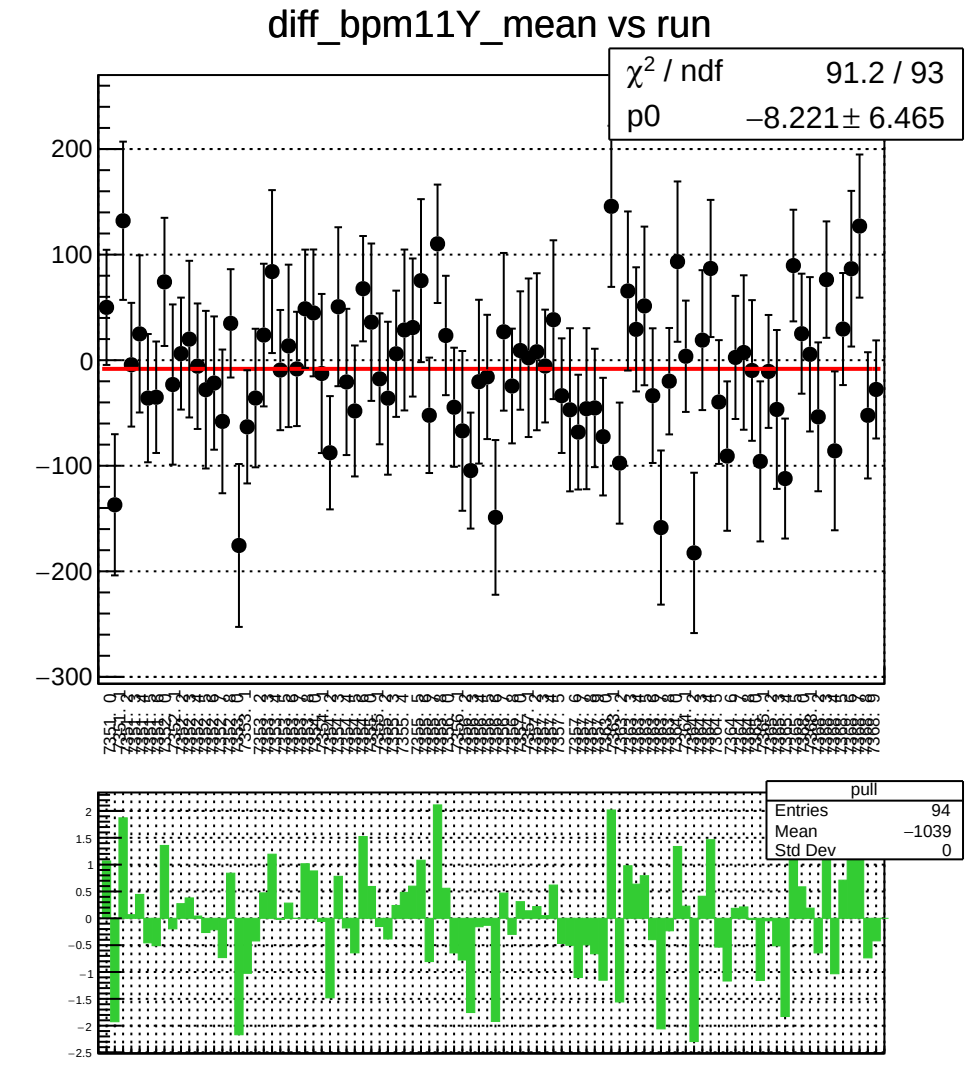

pull1D
Entries 94
Mean 0.007767
Std Dev 1.022
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

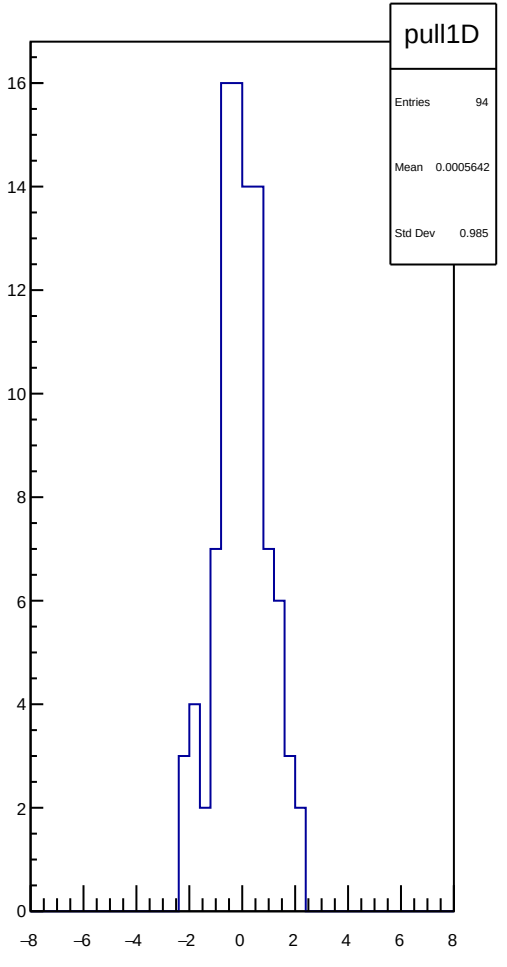

diff_bpm1Y_rms vs run
χ² / ndf 2.379e+04 / 93
p0 5533 ± 4.13
6500
6000
5500
5000
4500

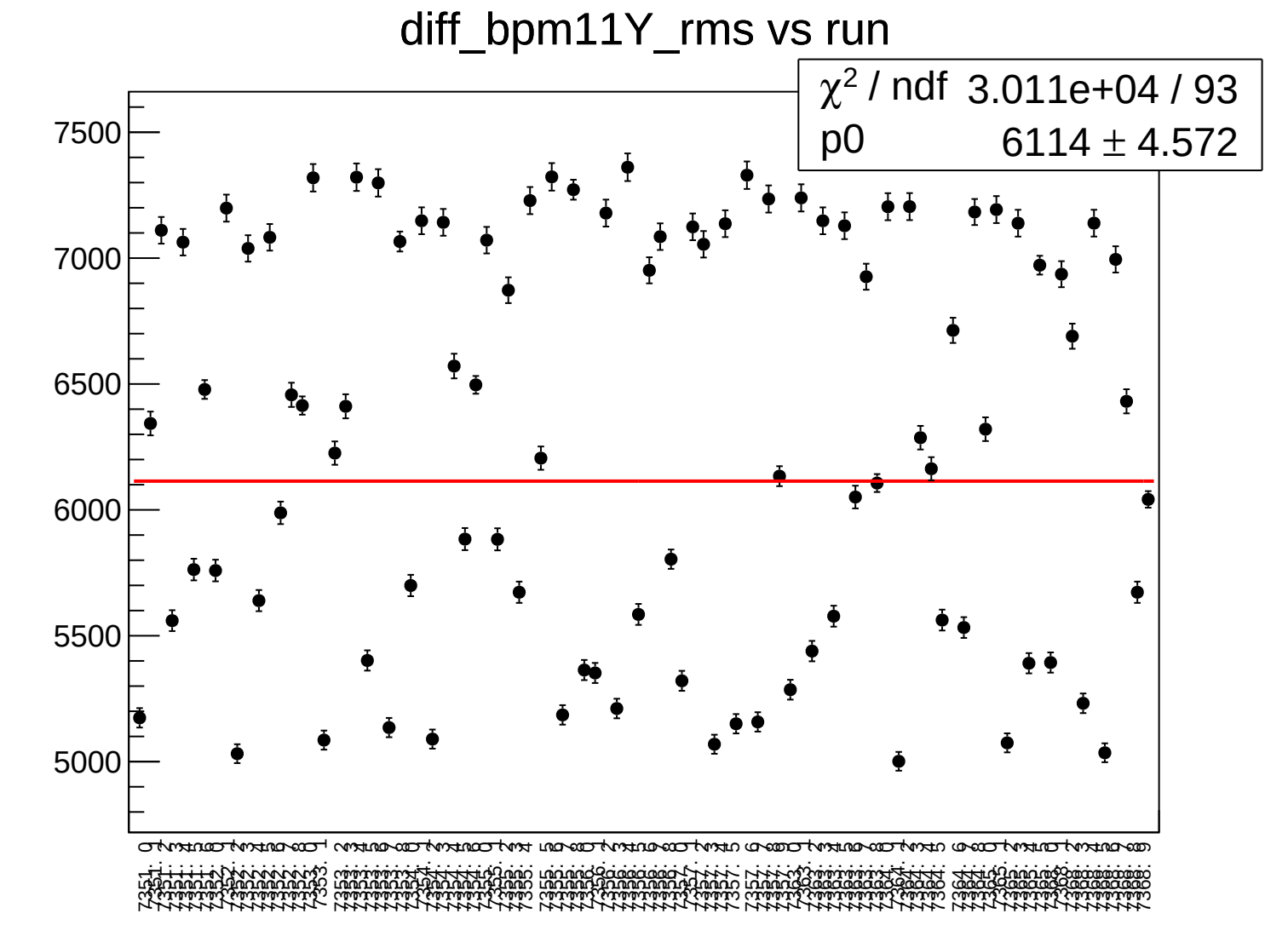

diff_bpm11X_mean vs run
χ^2 / ndf 74.35 / 93
p0 18.66 ± 17.14
pull
Entries 94
Mean −82.74
Std Dev 0

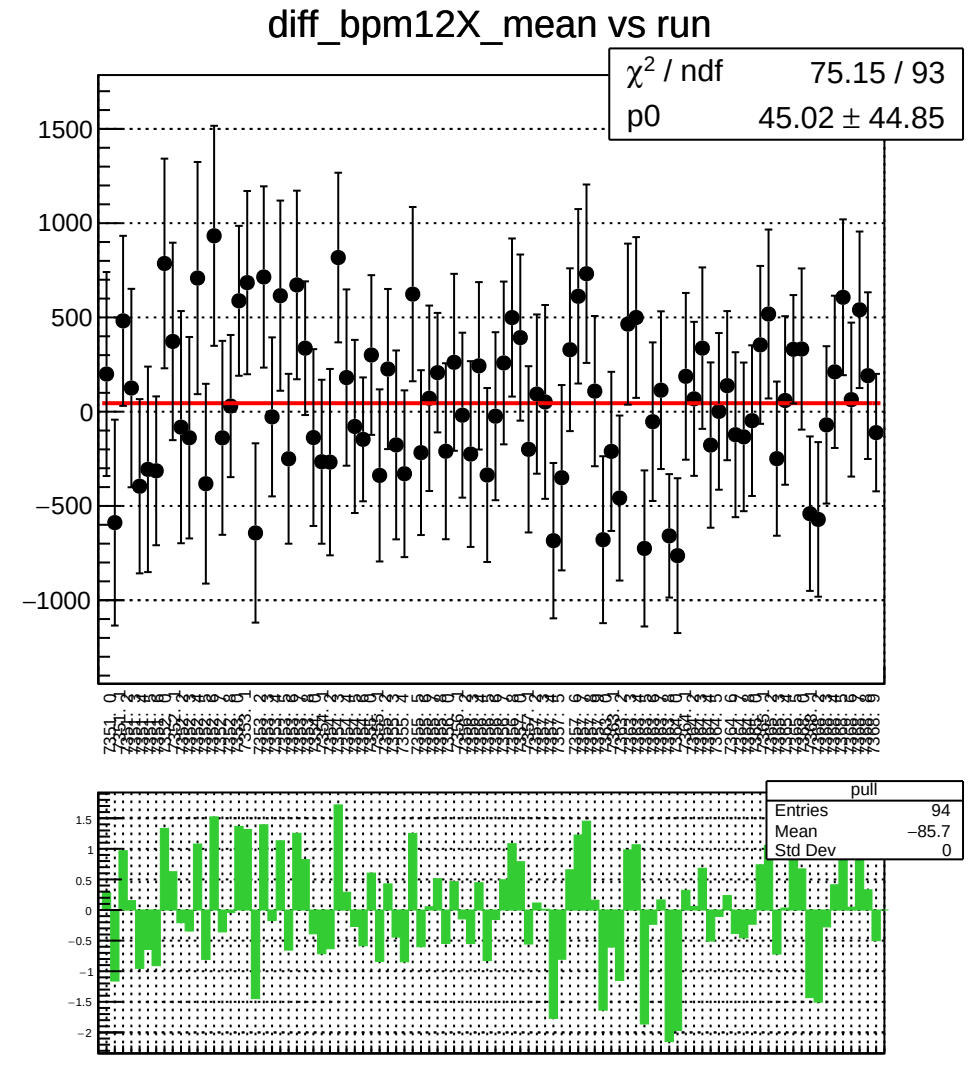

pull1D
Entries 94
Mean 0.01477
Std Dev 0.8892

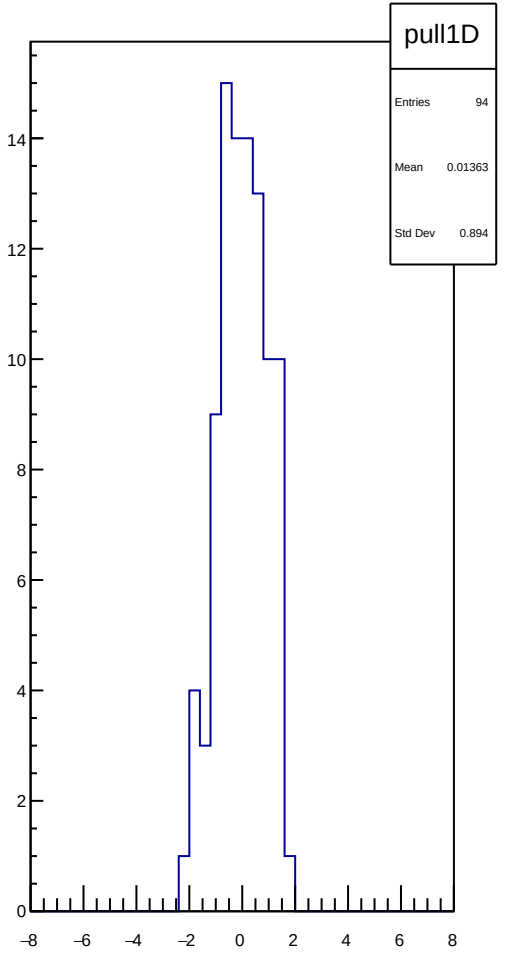

diff_bpm11X_rms vs run
χ² / ndf 1.564e+04 / 93
p0 1.628e+04 ± 12.12
23000
22000
21000
20000
19000
18000
17000
16000
15000
14000

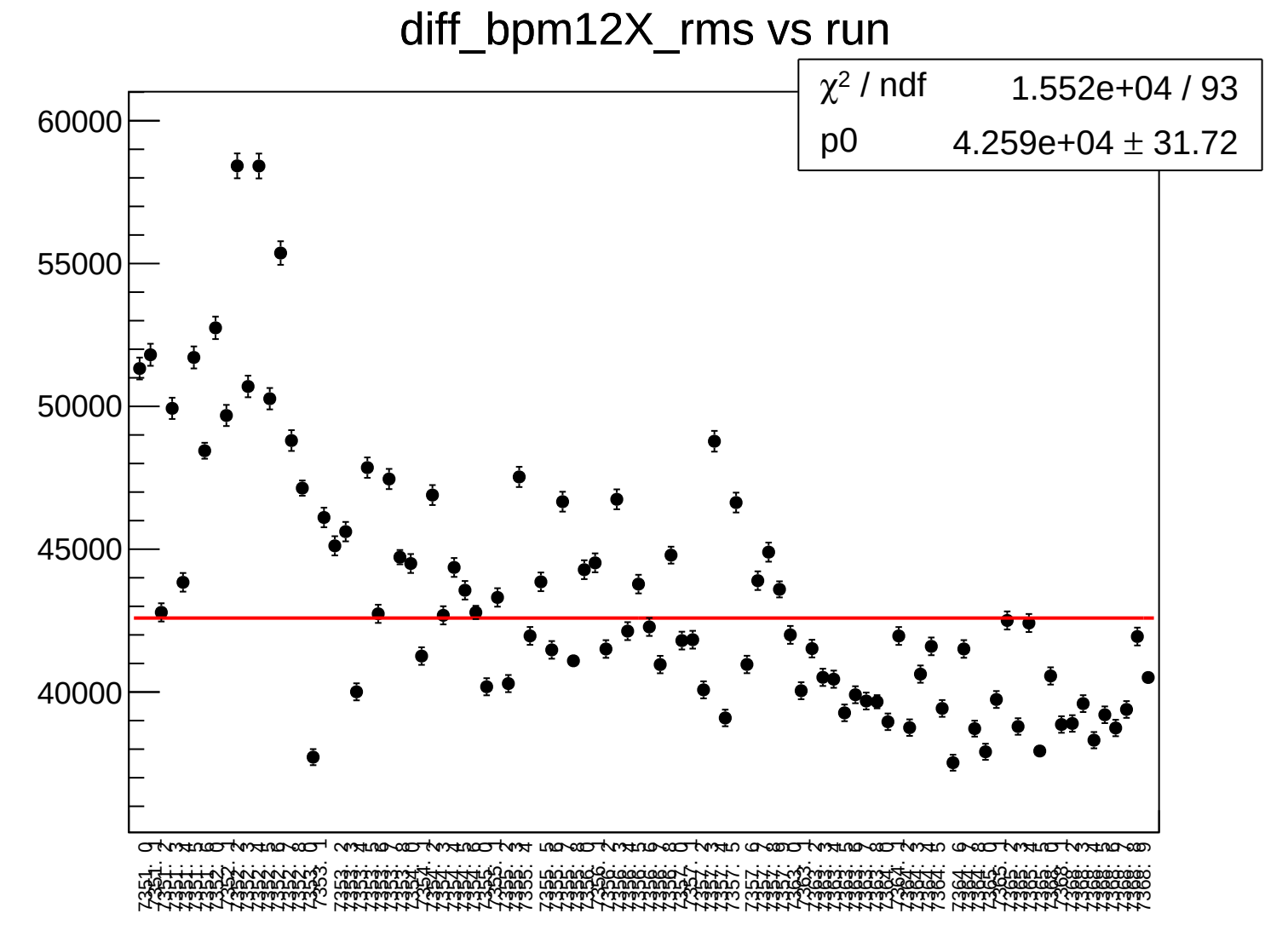

diff_bpm11Y_mean vs run
χ² / ndf 91.2 / 93
p0 −8.221 ± 6.465
200
100
0
−100
−200
−300
pull
Entries 94
Mean −1039
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

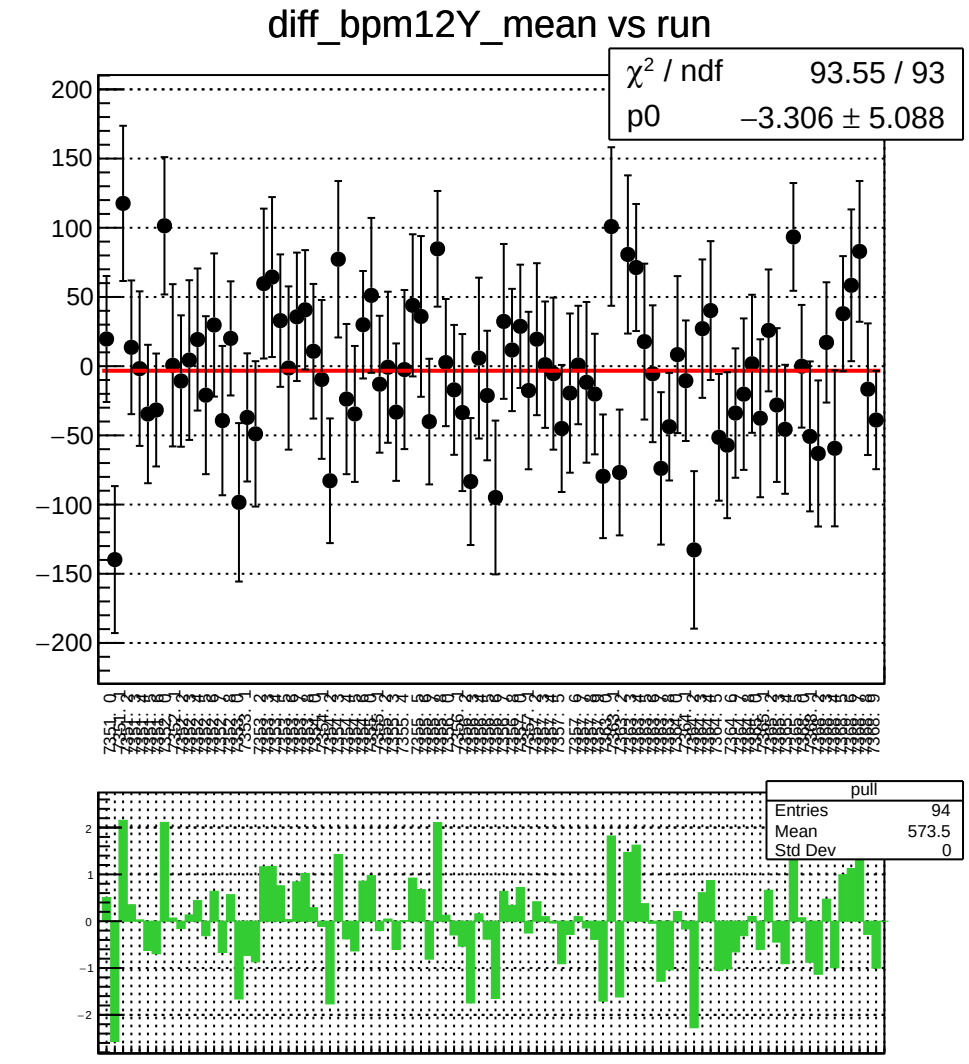

pull1D
Entries 94
Mean 0.0005642
Std Dev 0.985
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

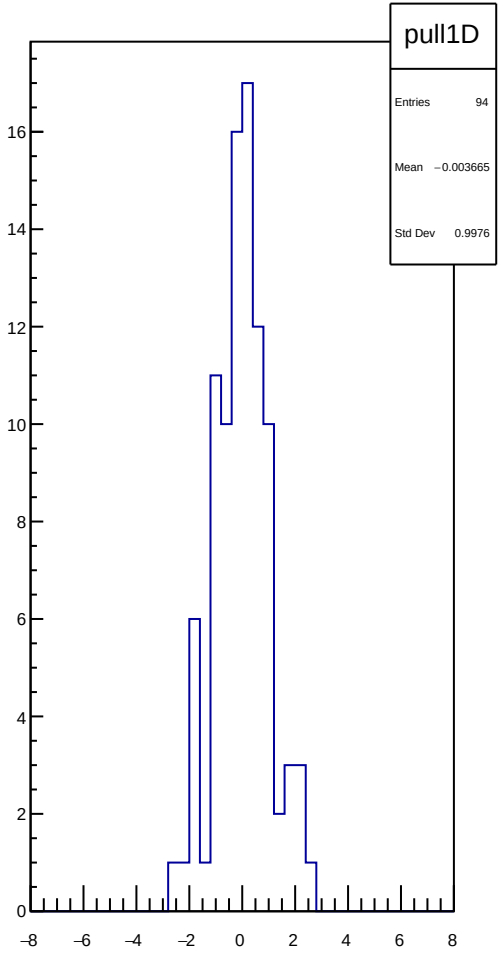

diff_bpm11Y_rms vs run
χ^2 / ndf 3.011e+04 / 93
p0 6114 ± 4.572
7500
7000
6500
6000
5500
5000

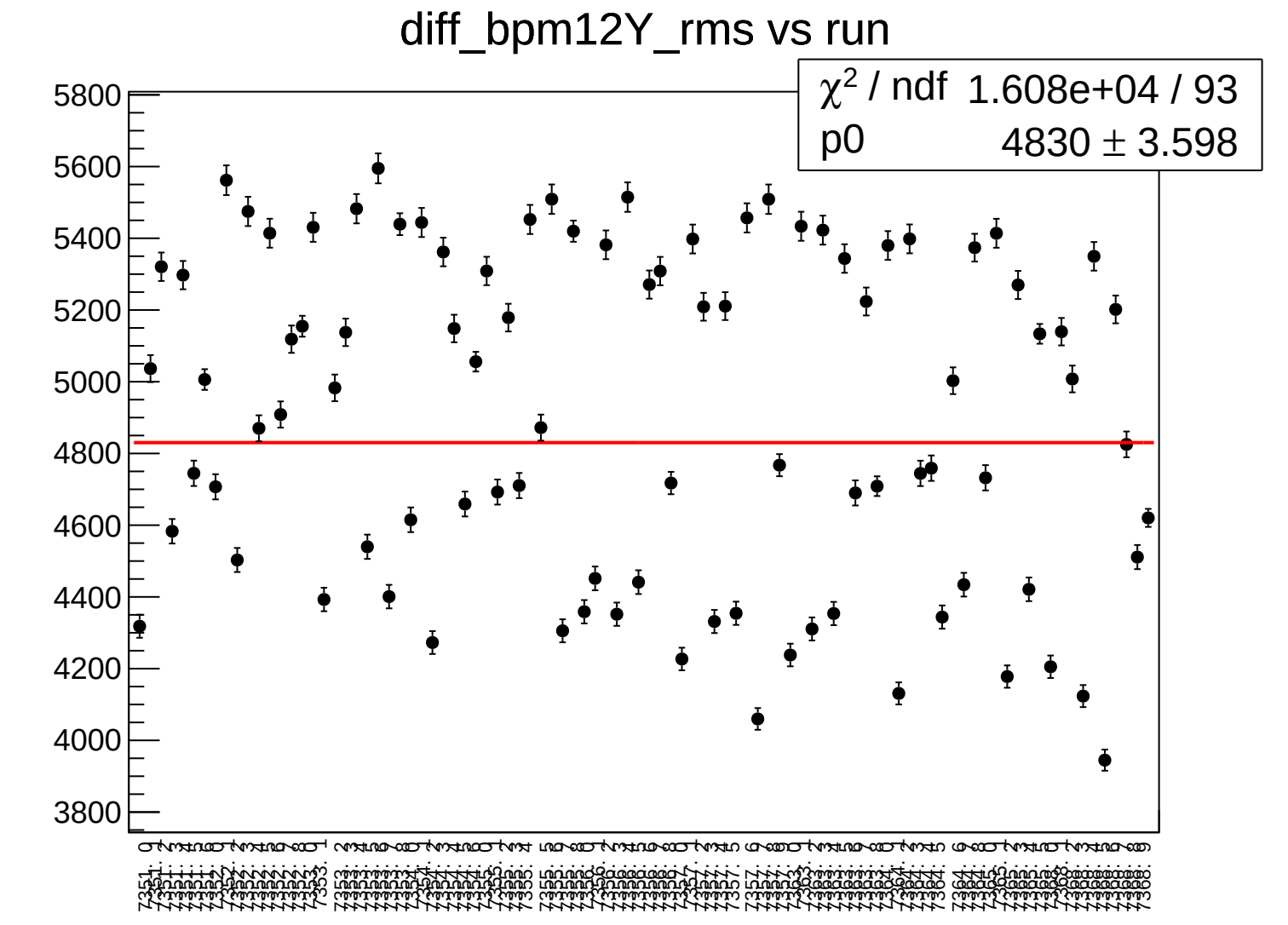

diff_bpm12X_mean vs run
χ² / ndf 75.15 / 93
p0 45.02 ± 44.85
1500
1000
500
0
−500
−1000
pull
Entries 94
Mean −85.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

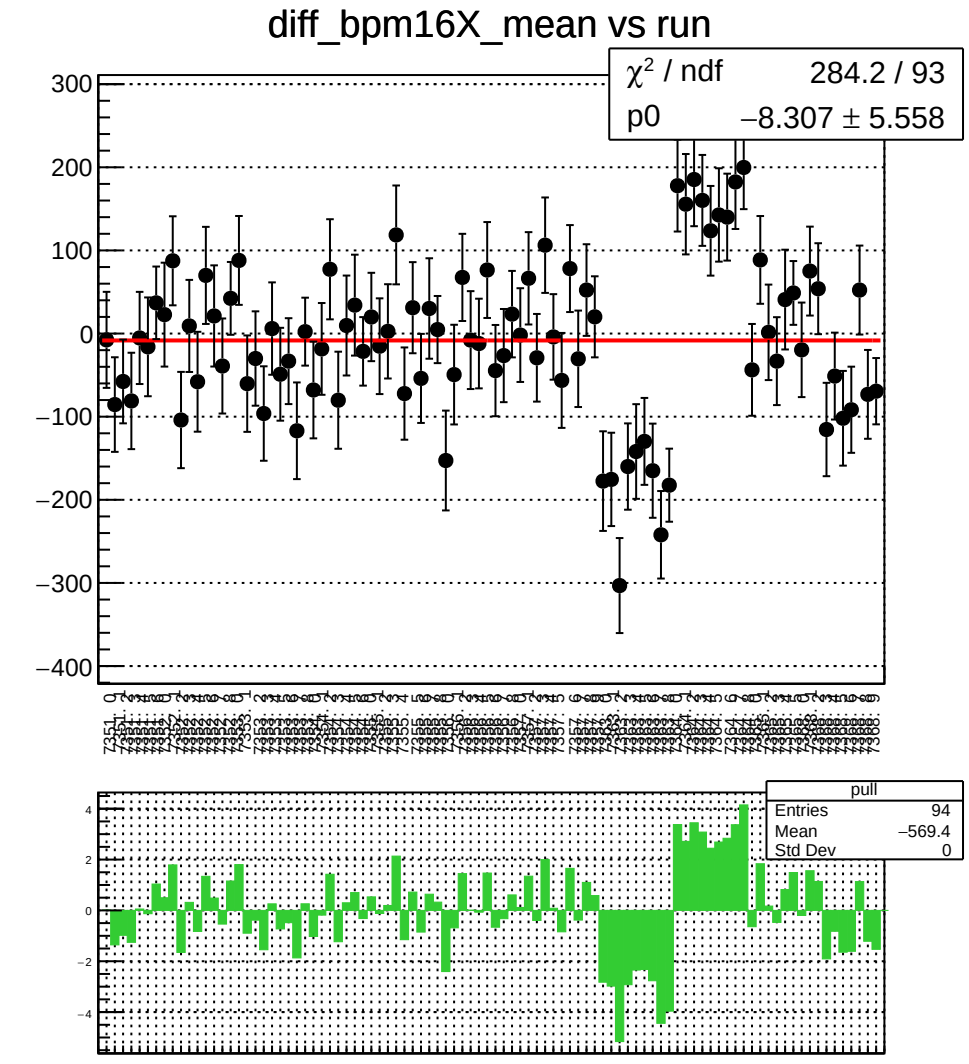

pull1D
Entries 94
Mean 0.01363
Std Dev 0.894
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

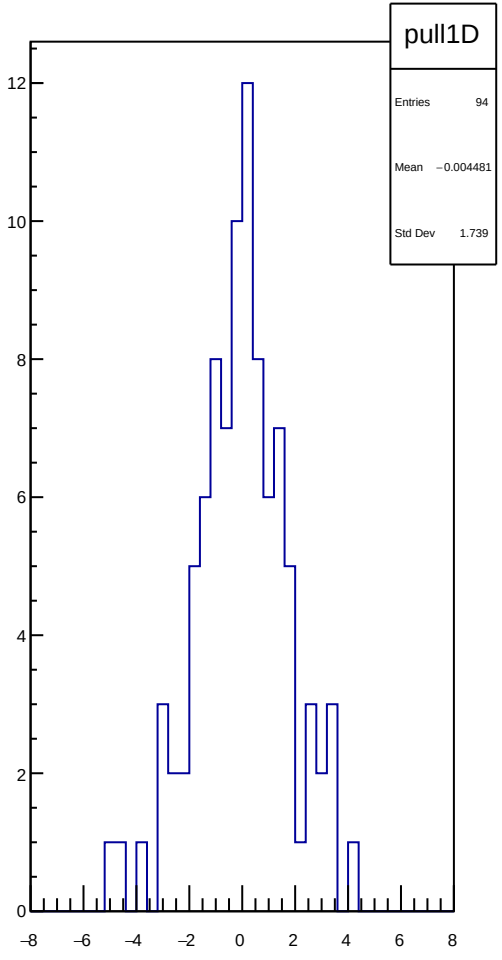

diff_bpm12X_rms vs run
χ² / ndf 1.552e+04 / 93
p0 4.259e+04 ± 31.72
60000
55000
50000
45000
40000

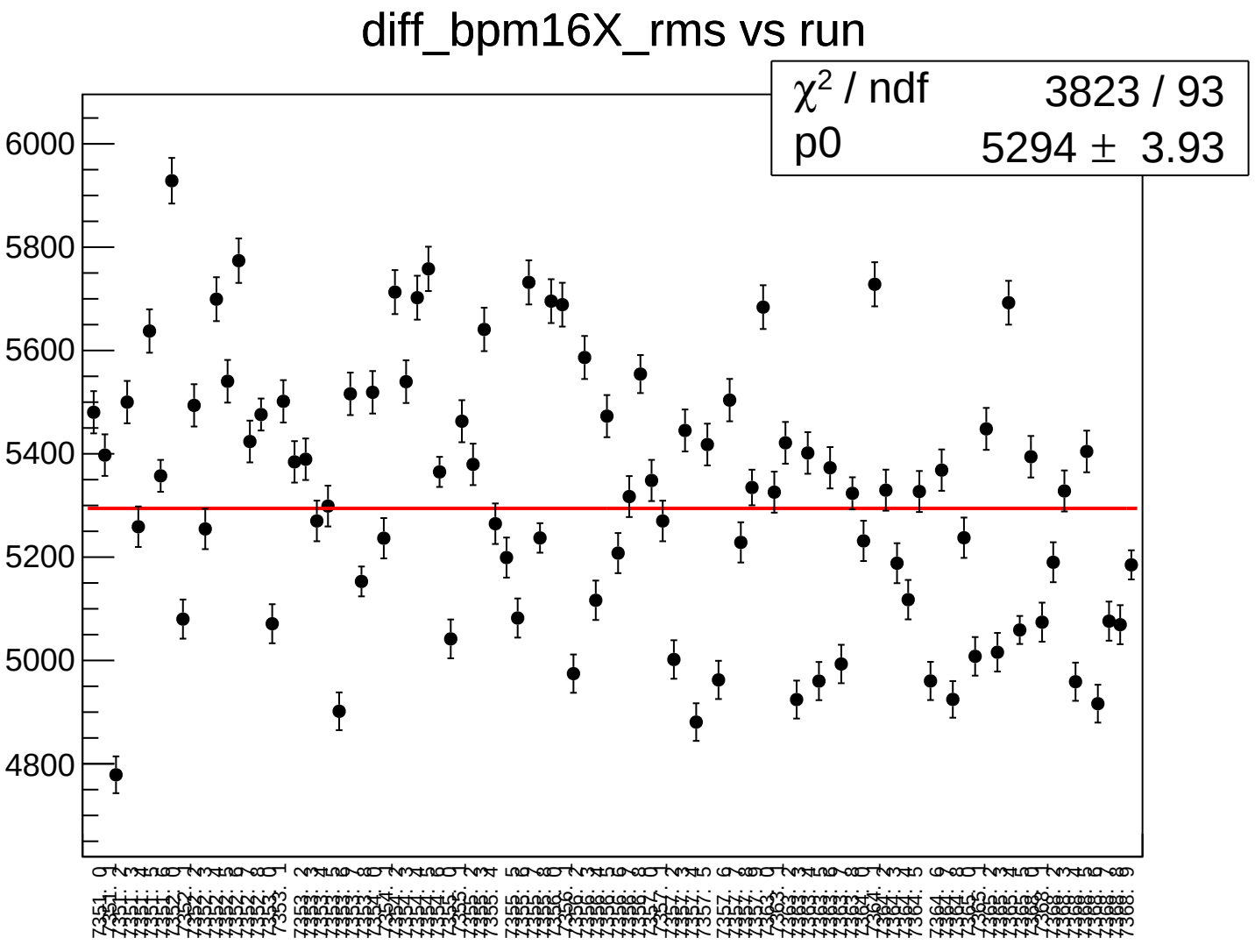

diff_bpm12Y_mean vs run
χ² / ndf 93.55 / 93
p0 −3.306 ± 5.088
pull
Entries 94
Mean 573.5
Std Dev 0

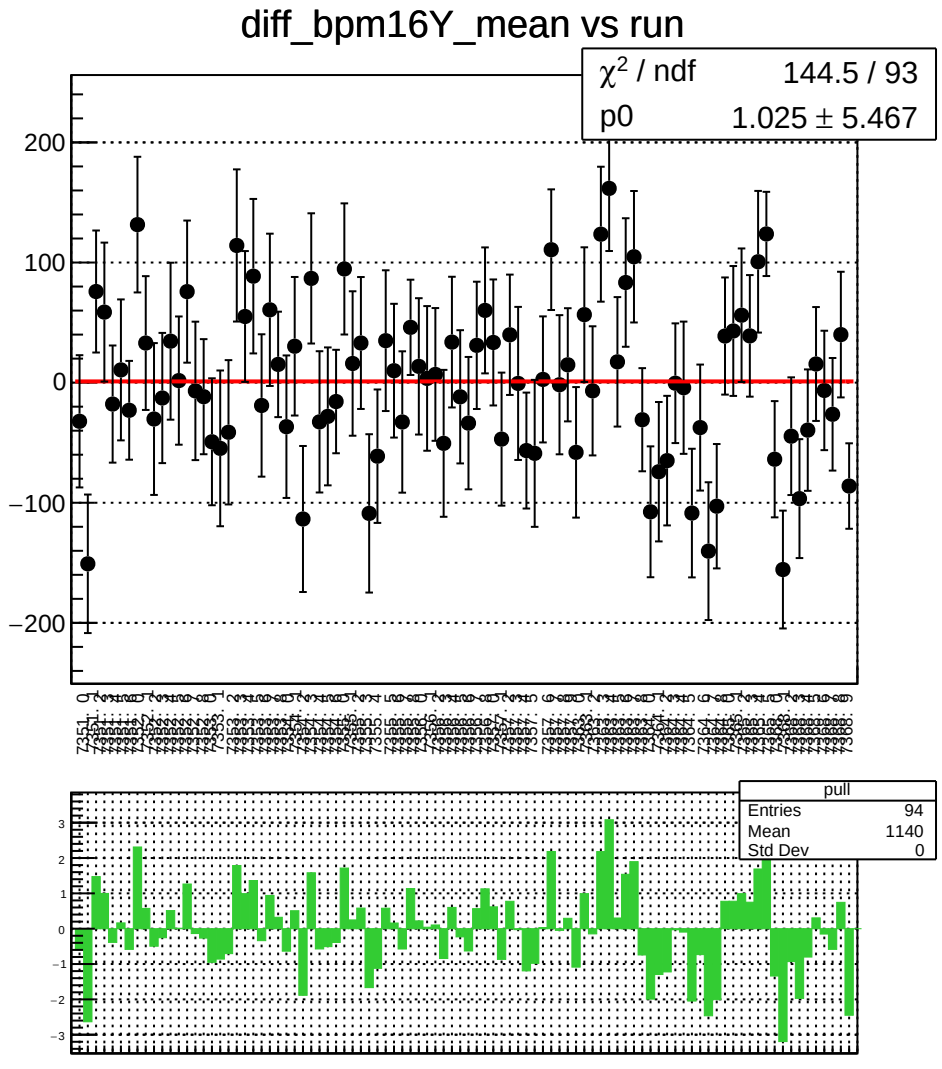

pull1D
Entries 94
Mean −0.003665
Std Dev 0.9976

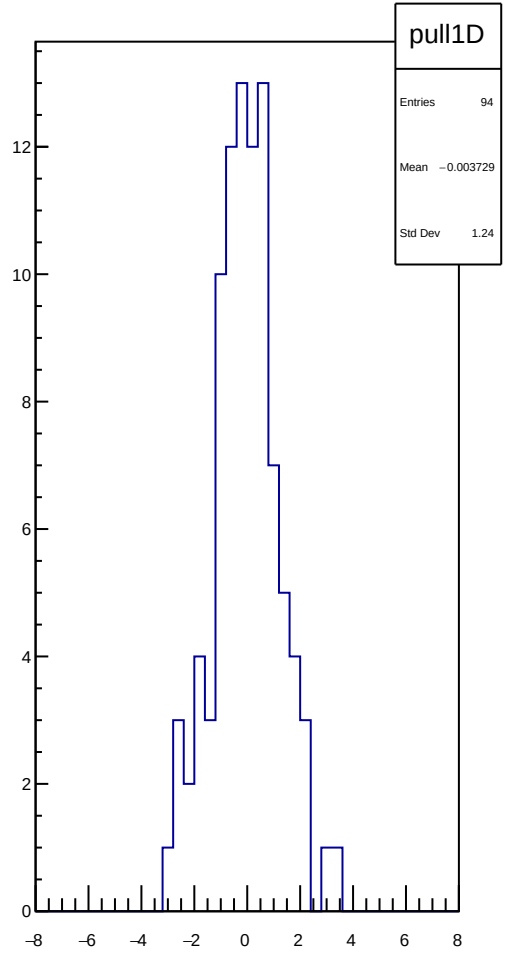

diff_bpm12Y_rms vs run
χ² / ndf 1.608e+04 / 93
p0 4830 ± 3.598
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800

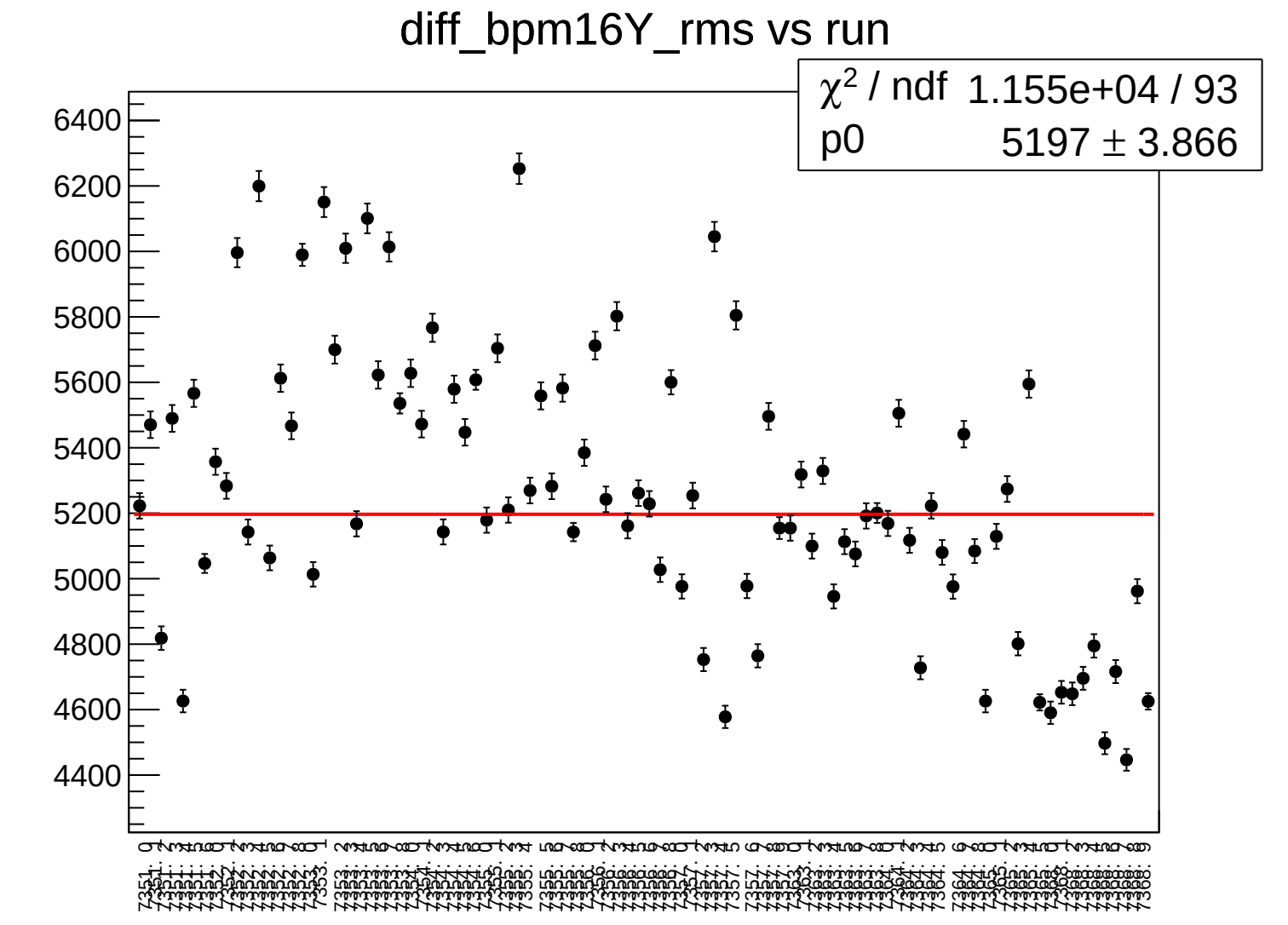

diff_bpm16X_mean vs run
χ² / ndf 284.2 / 93
p0 −8.307 ± 5.558
pull
Entries 94
Mean −569.4
Std Dev 0

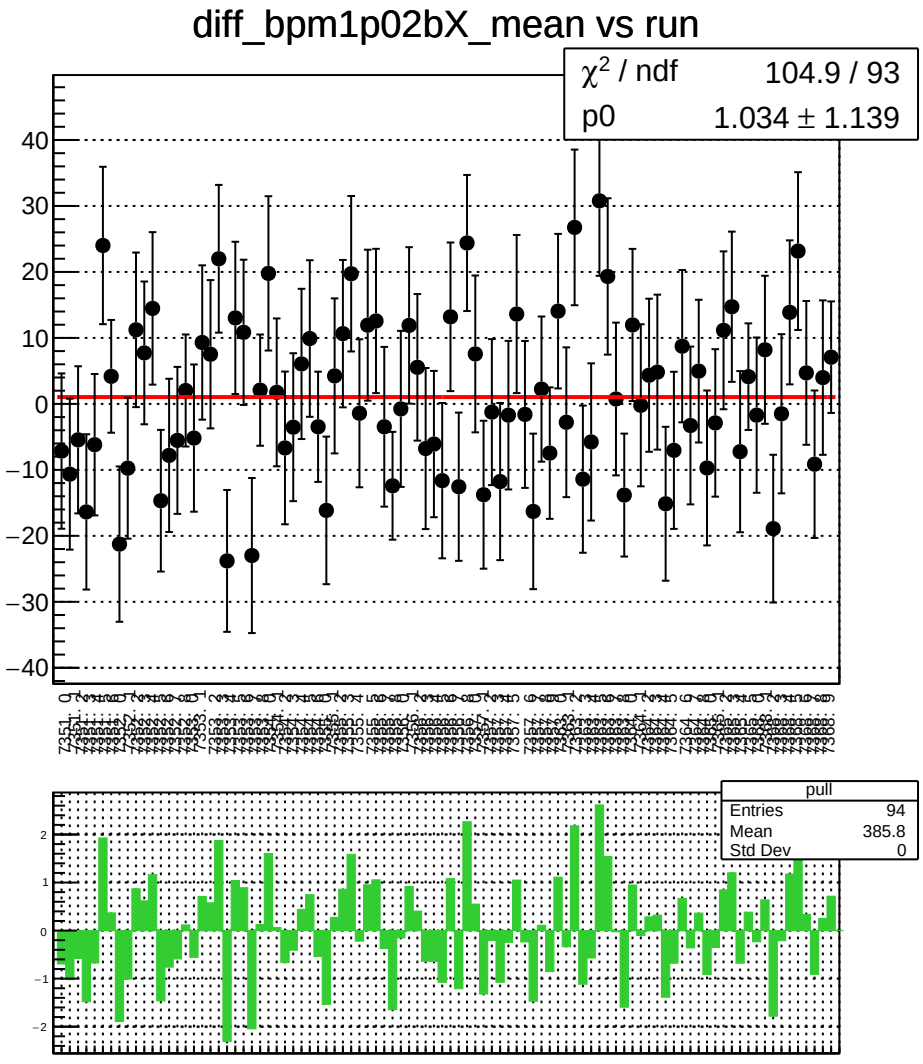

pull1D
Entries 94
Mean −0.004481
Std Dev 1.739

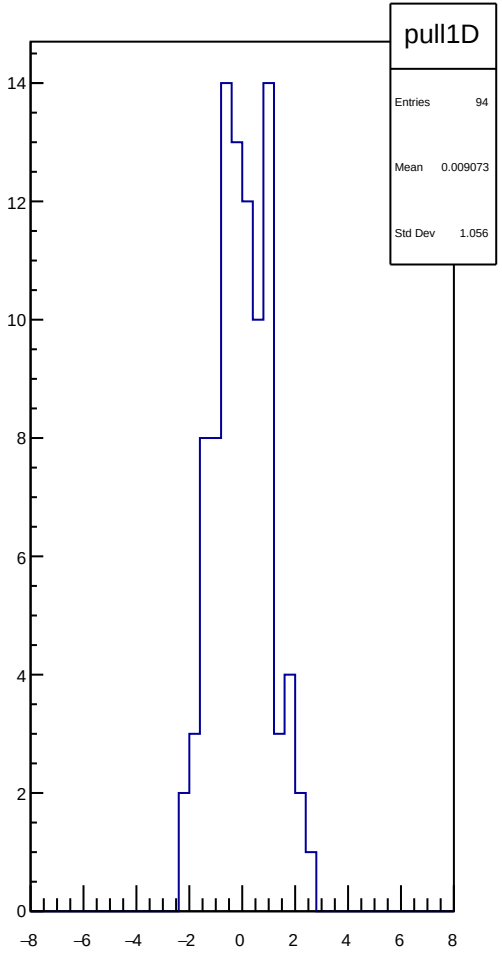

diff_bpm16X_rms vs run
χ² / ndf 3823 / 93
p0 5294 ± 3.93
6000
5800
5600
5400
5200
5000
4800

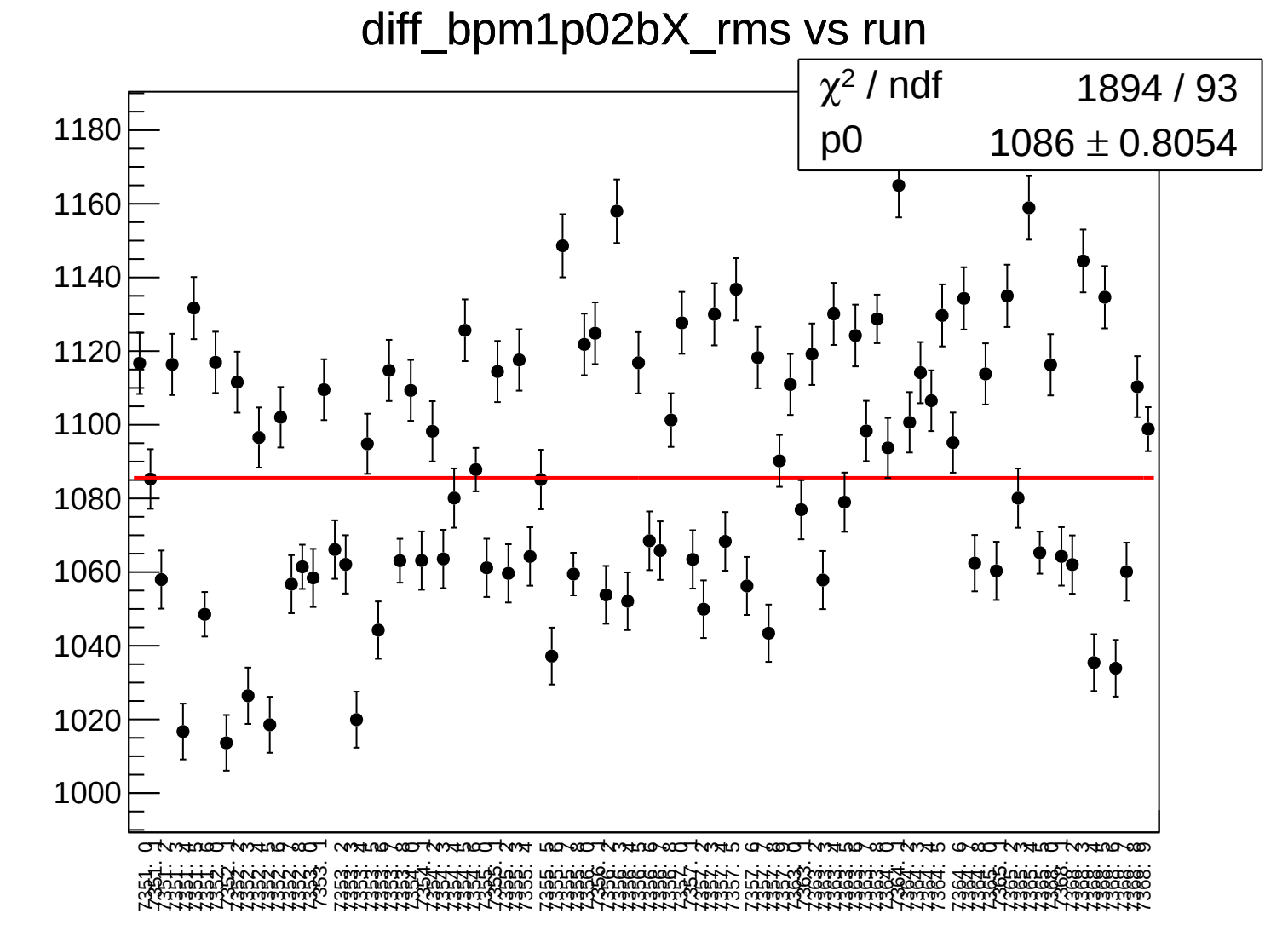

diff_bpm16Y_mean vs run
χ² / ndf 144.5 / 93
p0 1.025 ± 5.467
200
100
0
−100
−200
pull
Entries 94
Mean 1140
Std Dev 0
3
2
1
0
−1
−2
−3

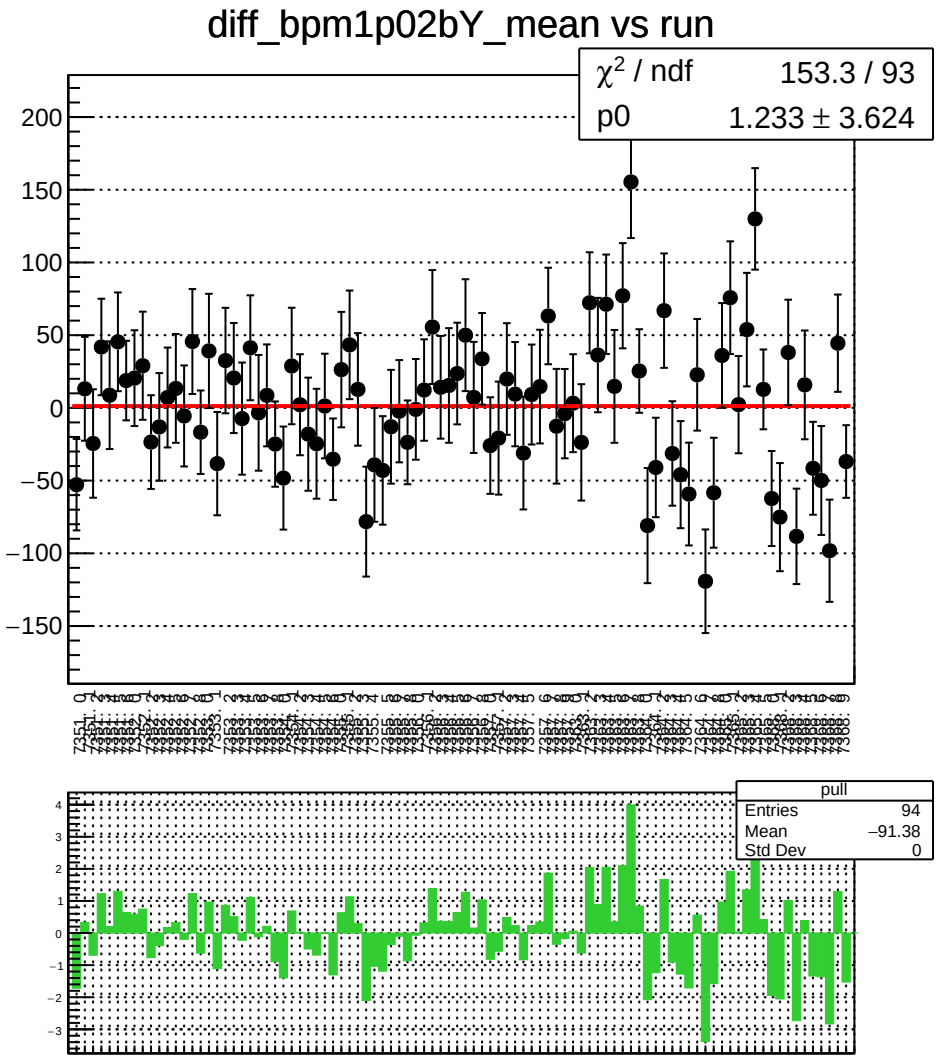

pull1D
Entries 94
Mean −0.003729
Std Dev 1.24
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

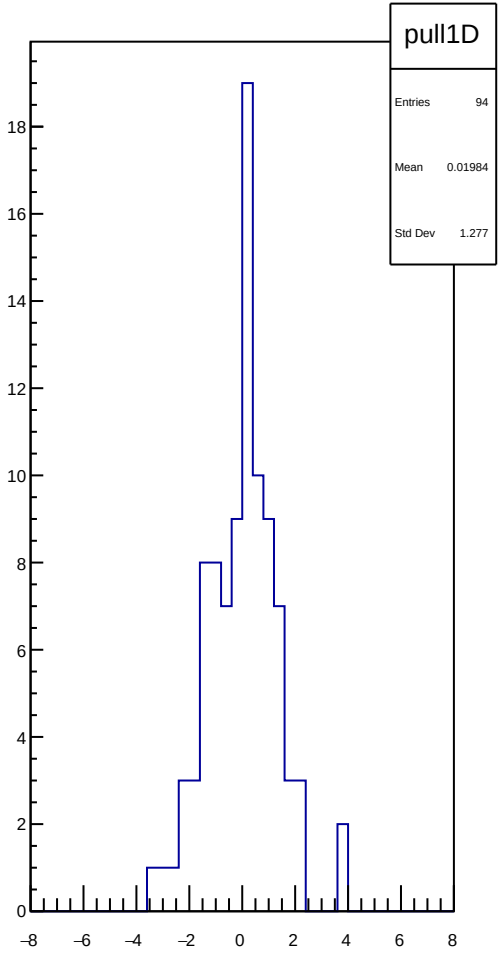

diff_bpm16Y_rms vs run
χ^2 / ndf 1.155e+04 / 93
p0 5197 ± 3.866
6400
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400

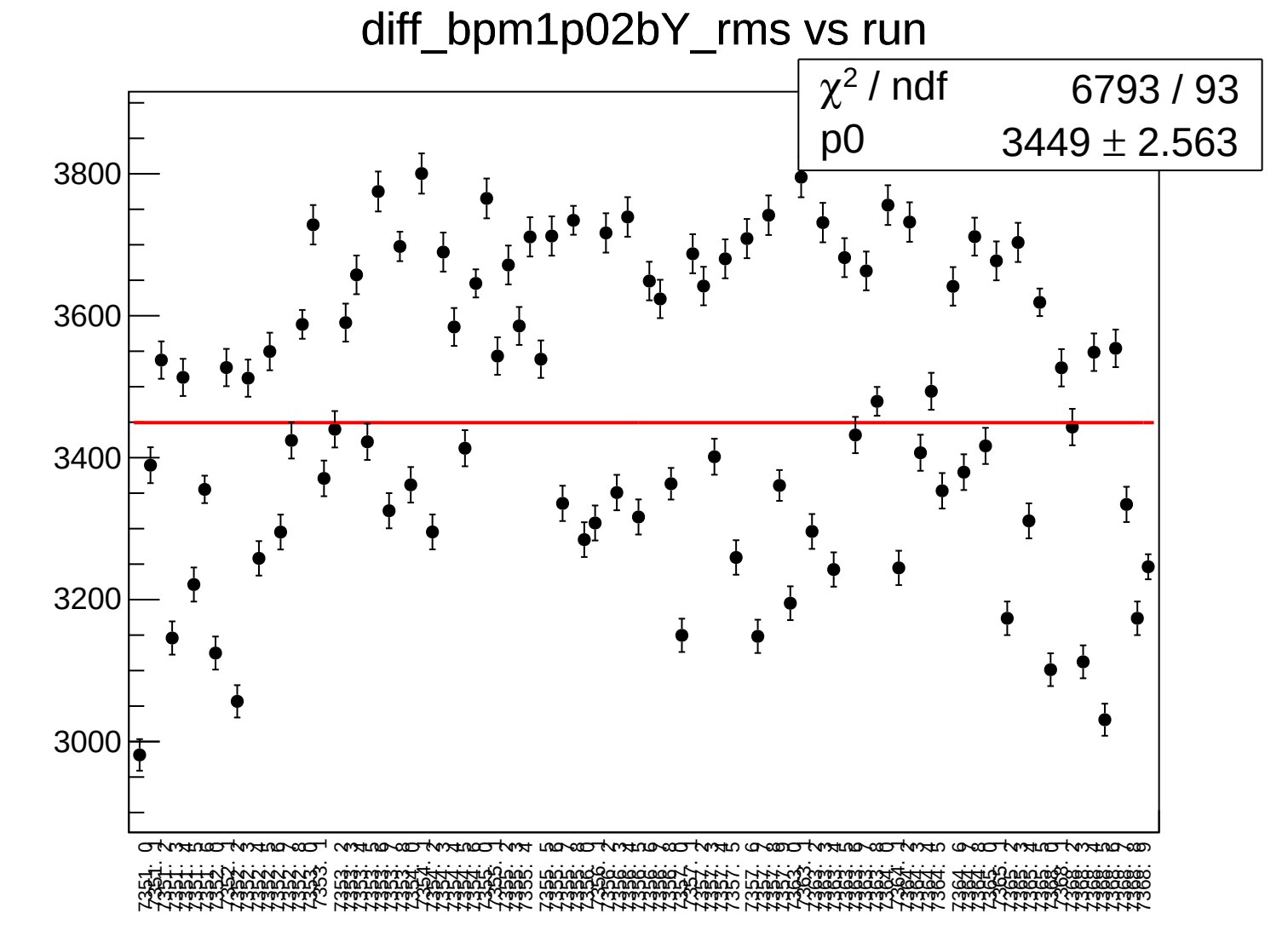

diff_bpm1p02bX_mean vs run
χ² / ndf 104.9 / 93
p0 1.034 ± 1.139
pull
Entries 94
Mean 385.8
Std Dev 0

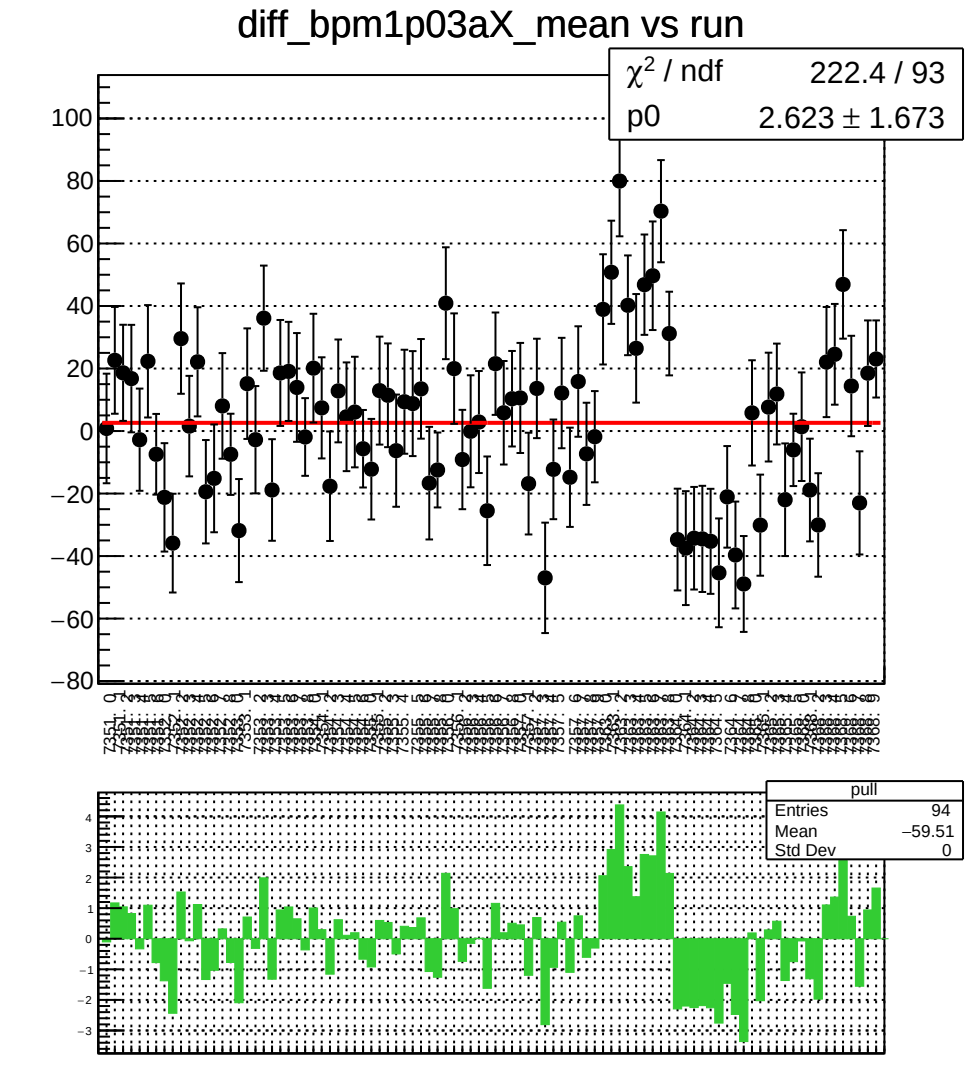

pull1D
Entries 94
Mean 0.009073
Std Dev 1.056

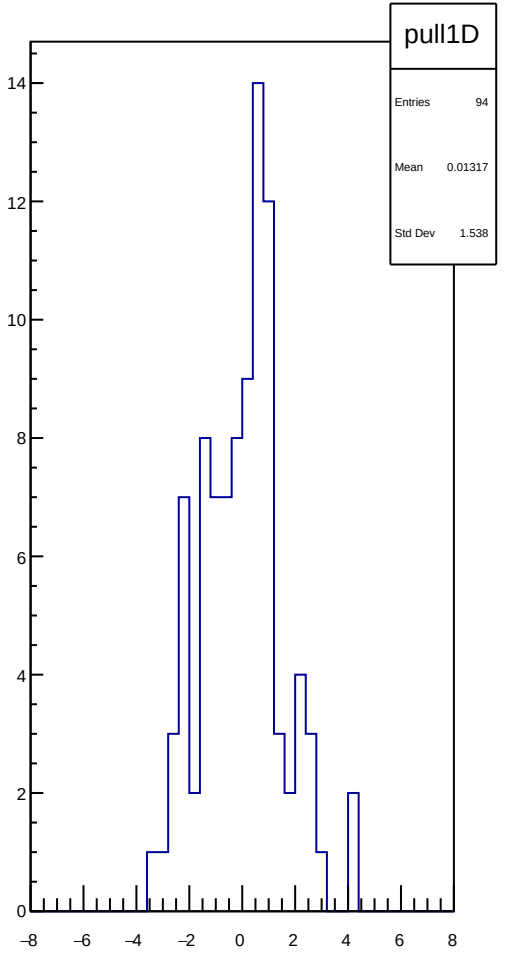

diff_bpm1p02bX_rms vs run
χ² / ndf 1894 / 93
p0 1086 ± 0.8054
1180
1160
1140
1120
1100
1080
1060
1040
1020
1000

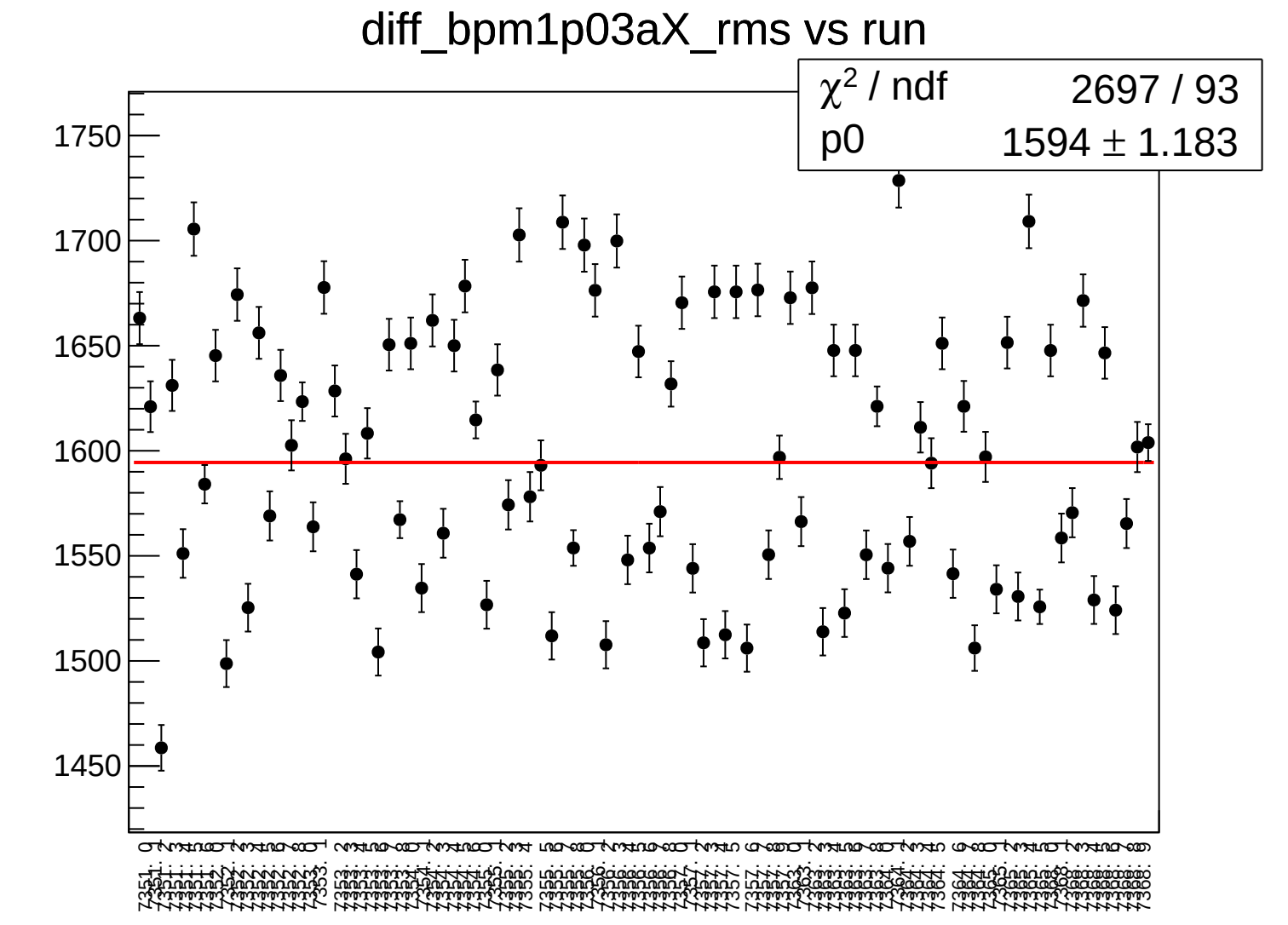

diff_bpm1p02bY_mean vs run
χ² / ndf 153.3 / 93
p0 1.233 ± 3.624
pull
Entries 94
Mean −91.38
Std Dev 0

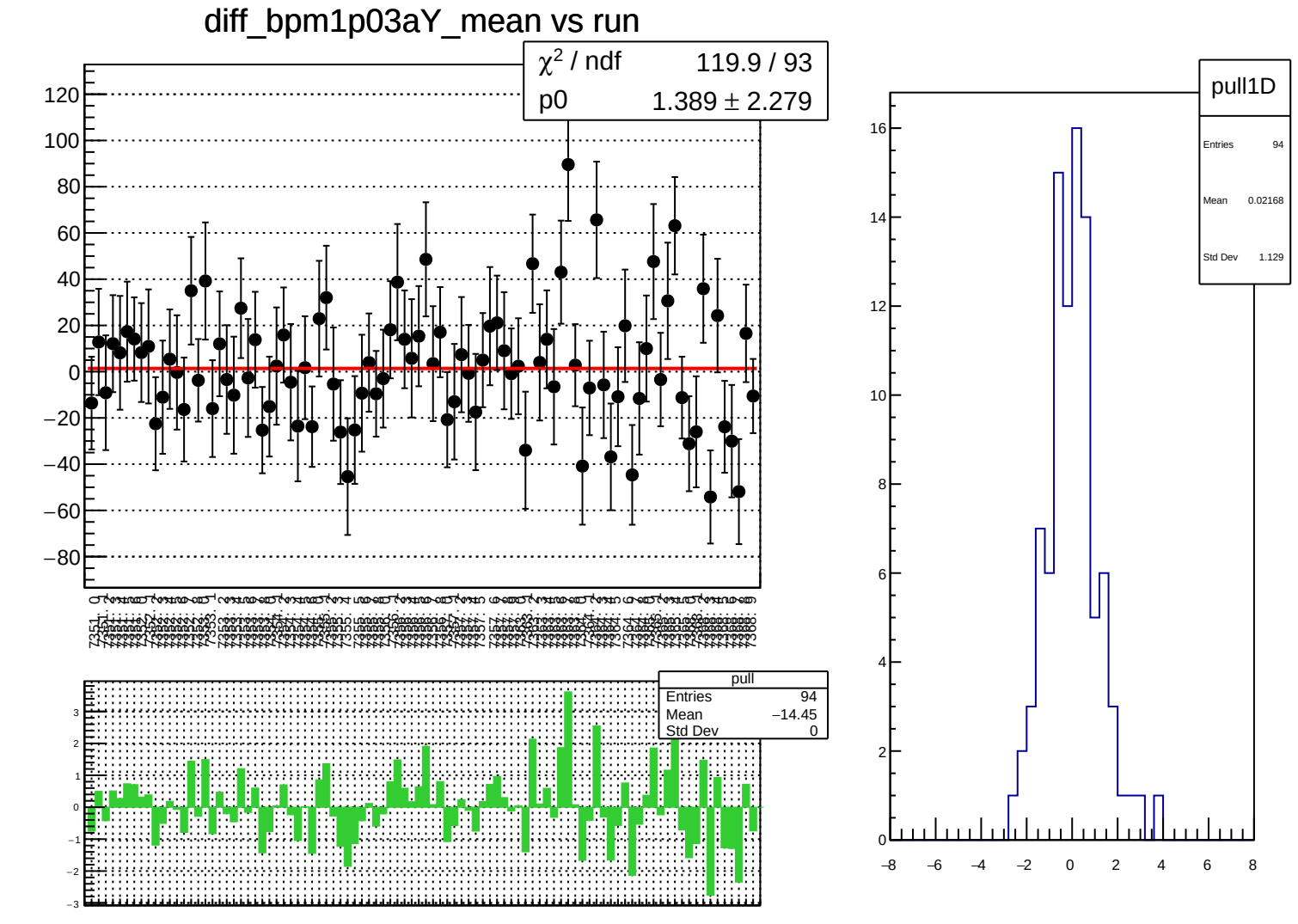

pull1D
Entries 94
Mean 0.01984
Std Dev 1.277

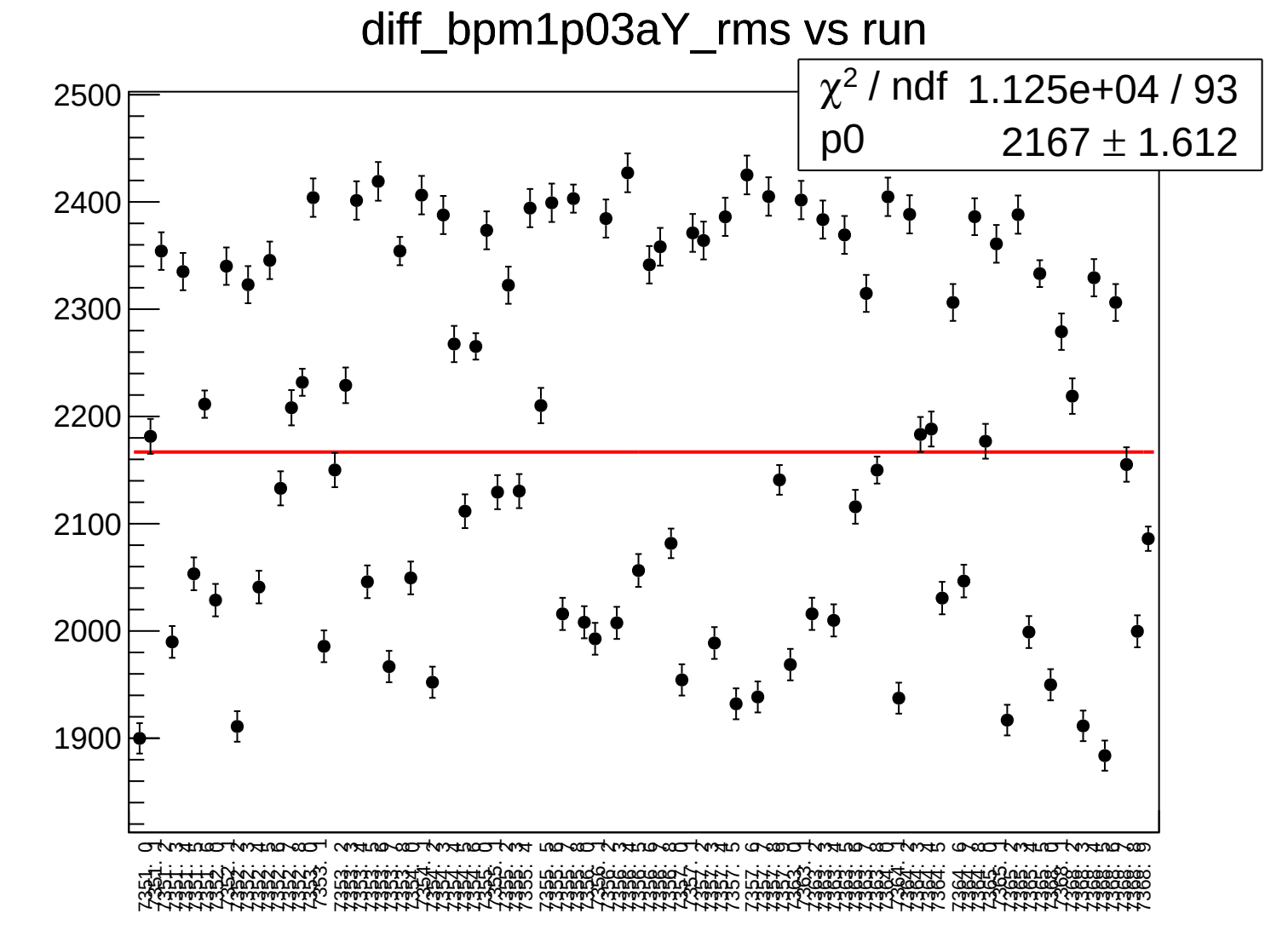

diff_bpm1p02bY_rms vs run
χ² / ndf 6793 / 93
p0 3449 ± 2.563
3800
3600
3400
3200
3000

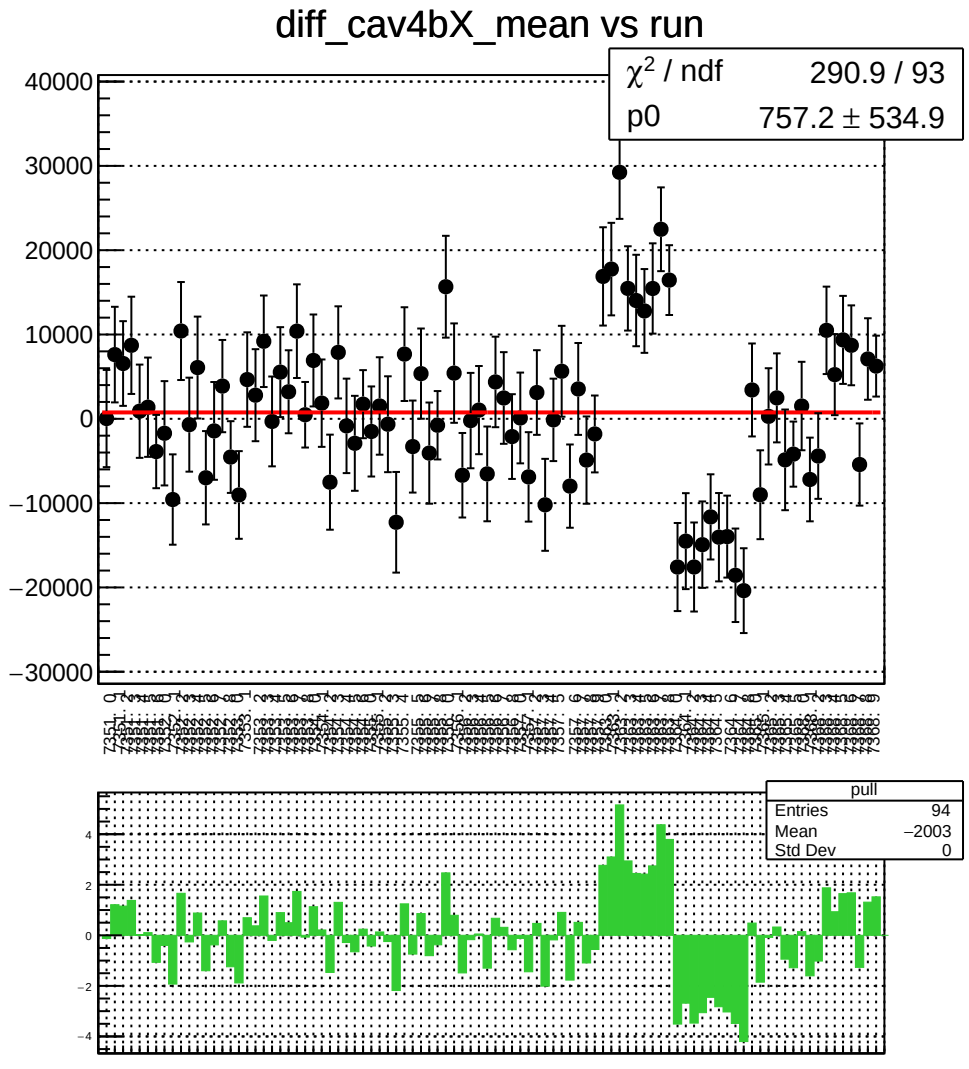

diff_bpm1p03aX_mean vs run
χ² / ndf 222.4 / 93
p0 2.623 ± 1.673
pull
Entries 94
Mean −59.51
Std Dev 0

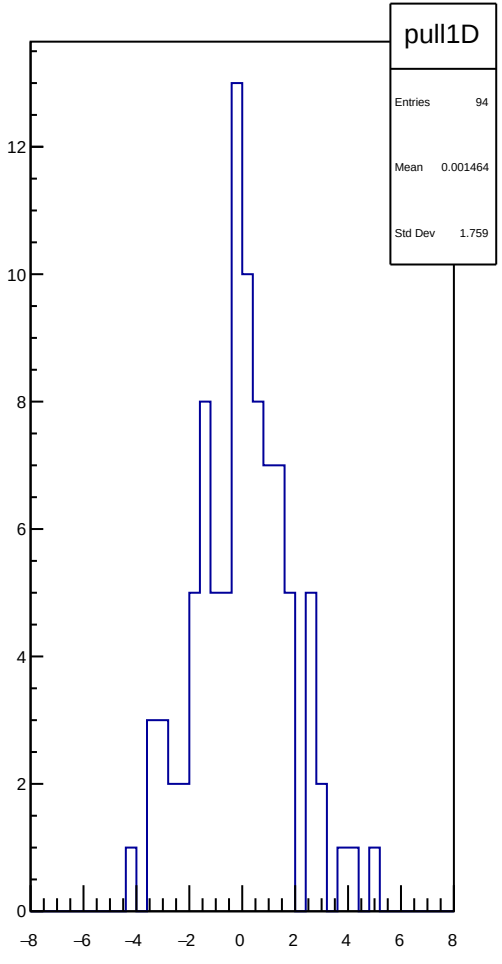

pull1D
Entries 94
Mean 0.01317
Std Dev 1.538

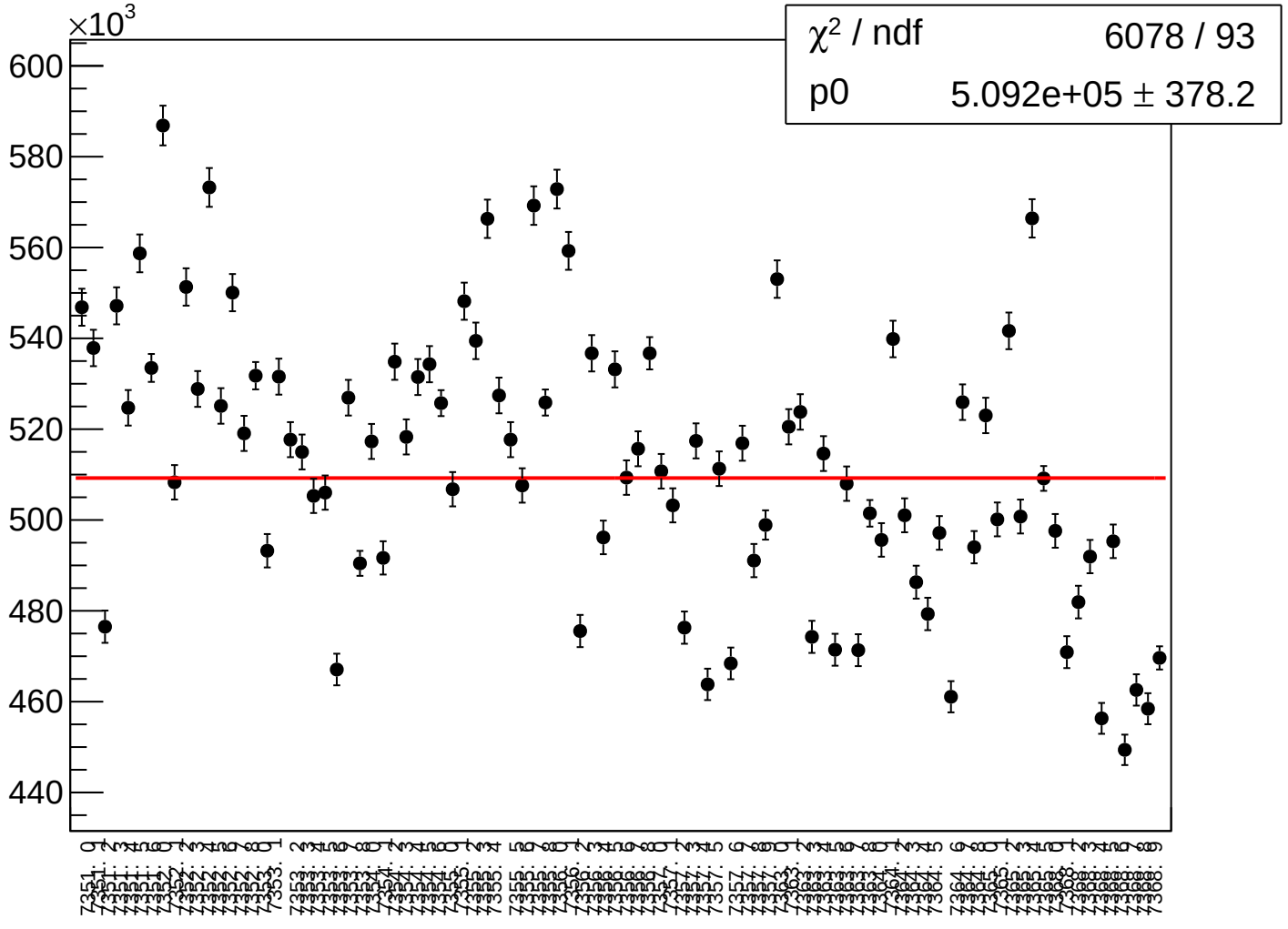

diff_bpm1p03aX_rms vs run
χ² / ndf 2697 / 93
p0 1594 ± 1.183
1750
1700
1650
1600
1550
1500
1450

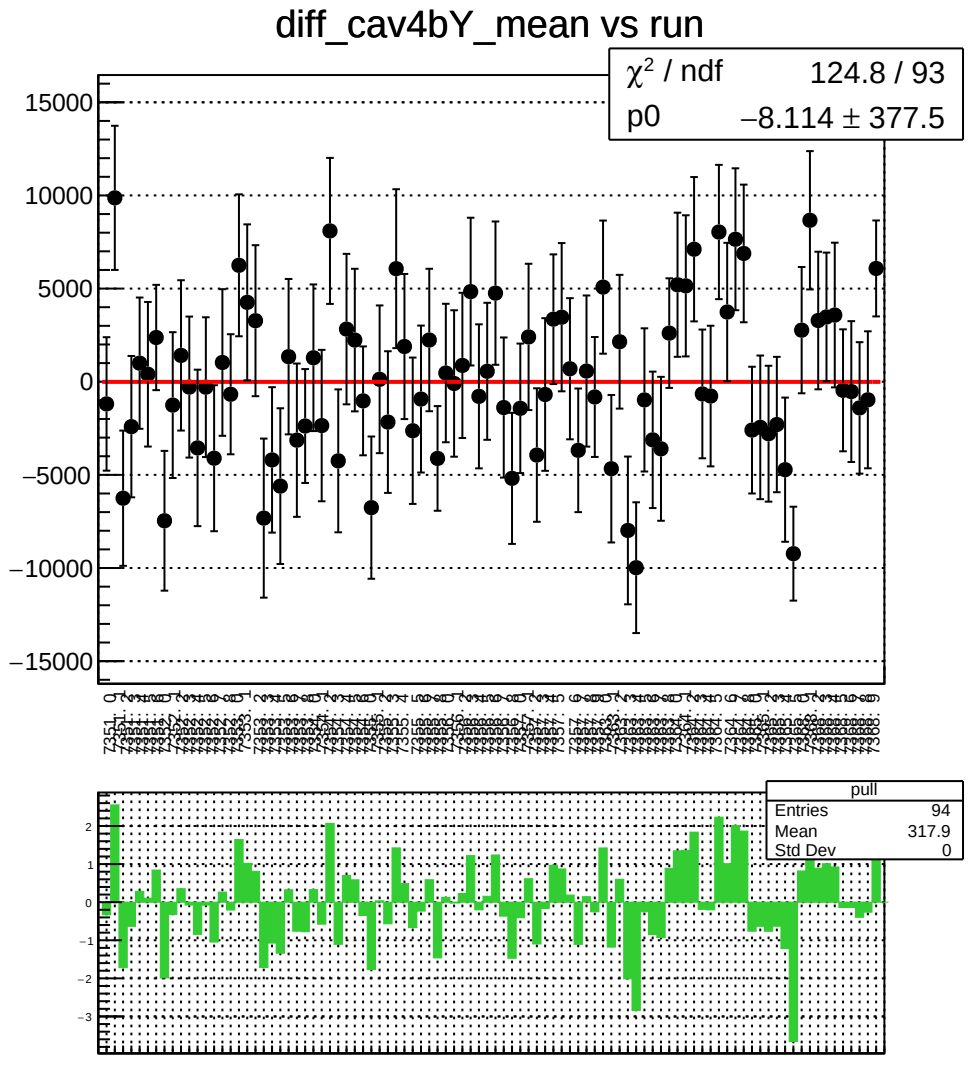

diff_bpm1p03aY_mean vs run
χ² / ndf 119.9 / 93
p0 1.389 ± 2.279
pull
Entries 94
Mean −14.45
Std Dev 0
pull1D
Entries 94
Mean 0.02168
Std Dev 1.129

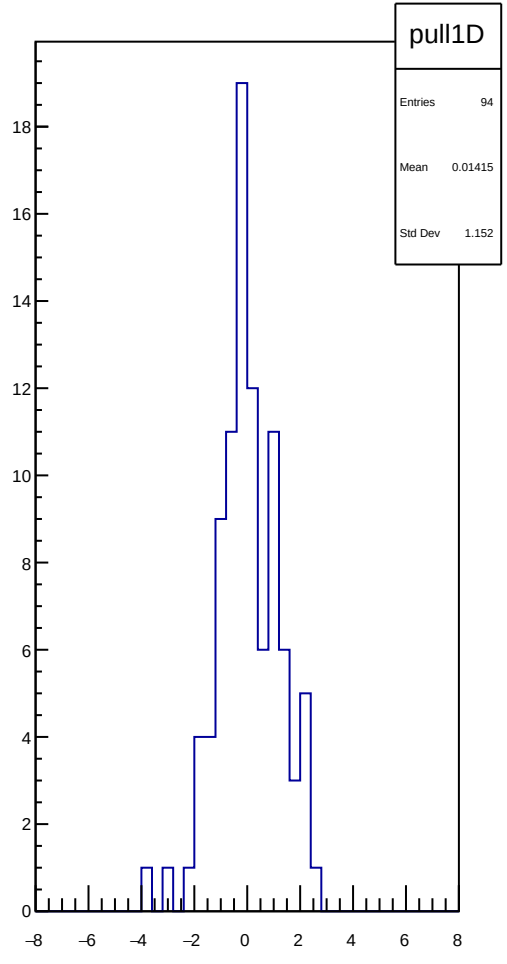

diff_bpm1p03aY_rms vs run
χ² / ndf 1.125e+04 / 93
p0 2167 ± 1.612
2500
2400
2300
2200
2100
2000
1900

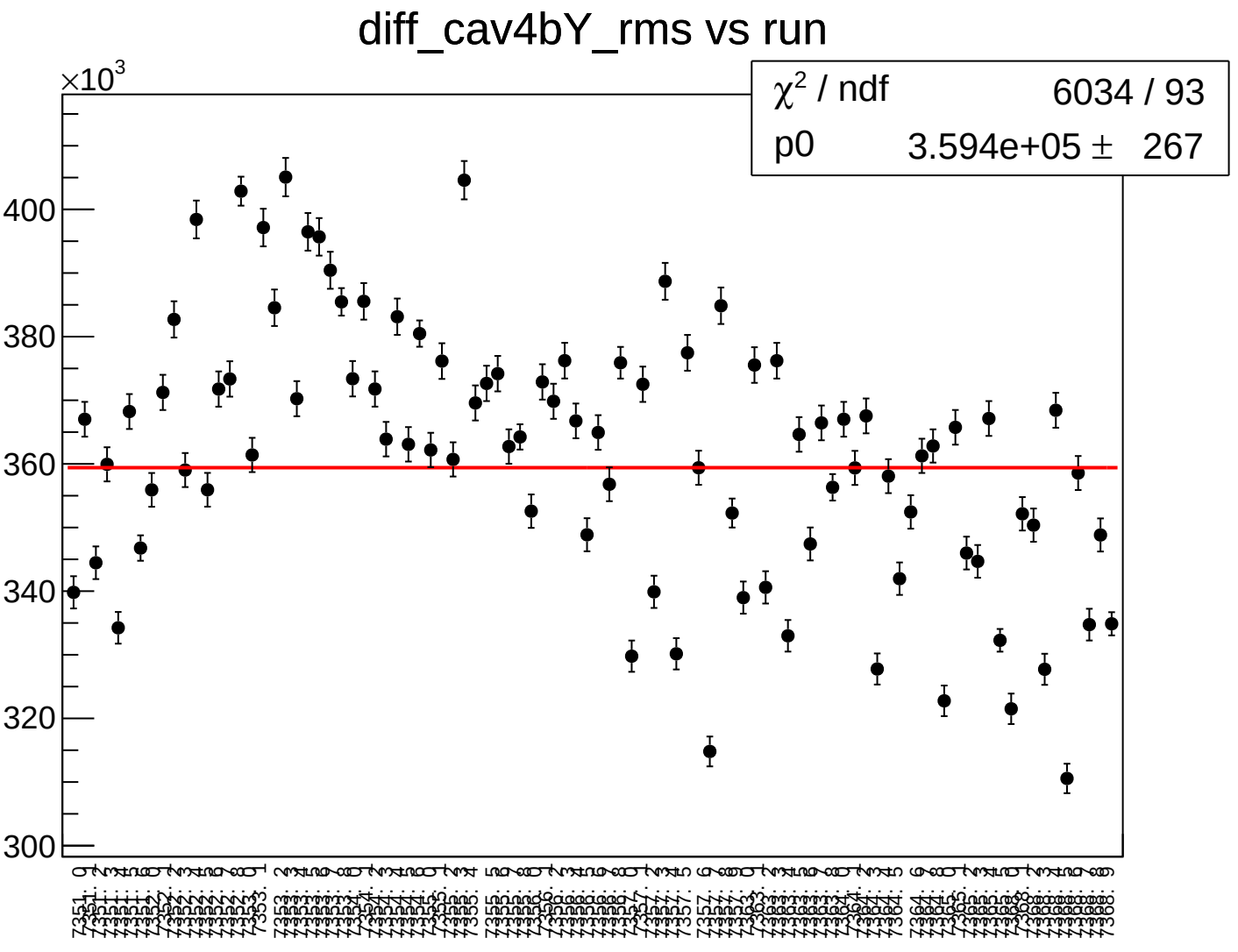

diff_cav4bX_mean vs run
χ² / ndf 290.9 / 93
p0 757.2 ± 534.9
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −2003
Std Dev 0
4
2
0
−2
−4

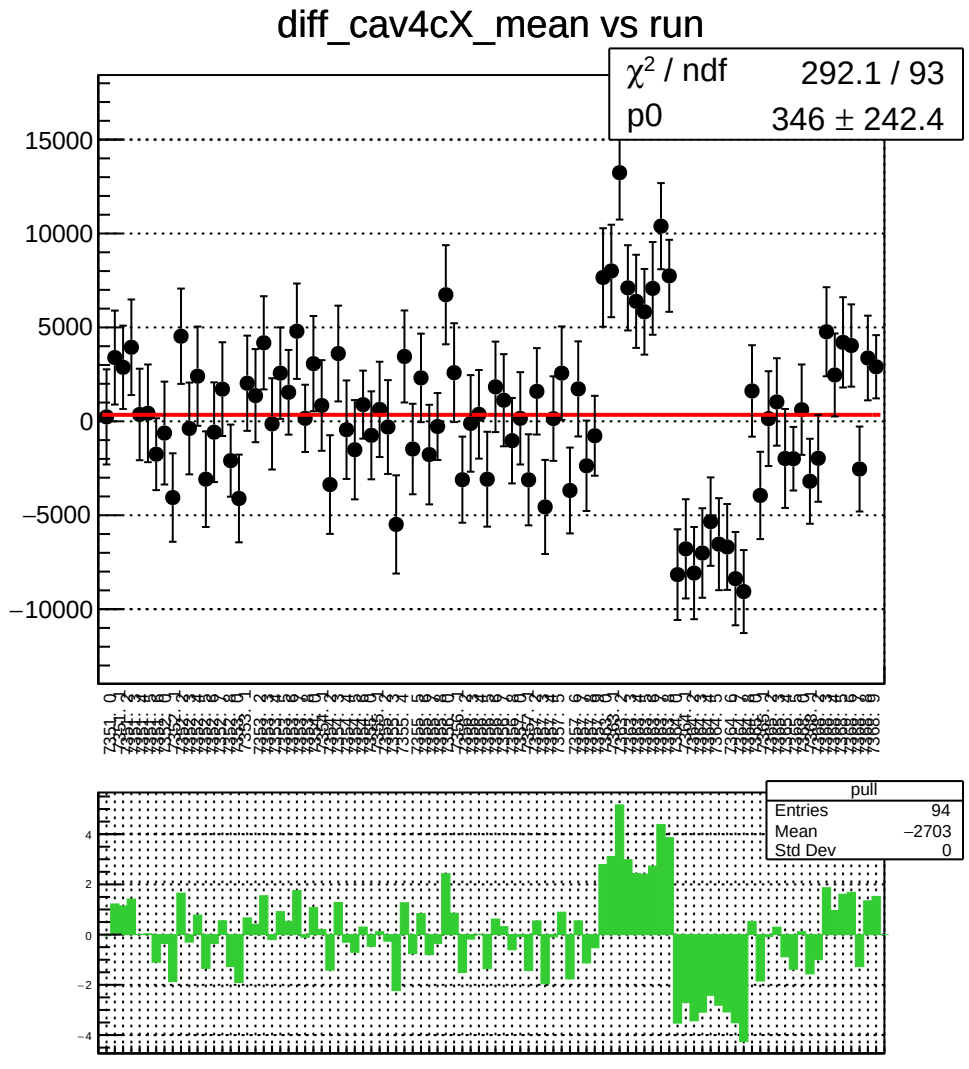

pull1D
Entries 94
Mean 0.001464
Std Dev 1.759
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

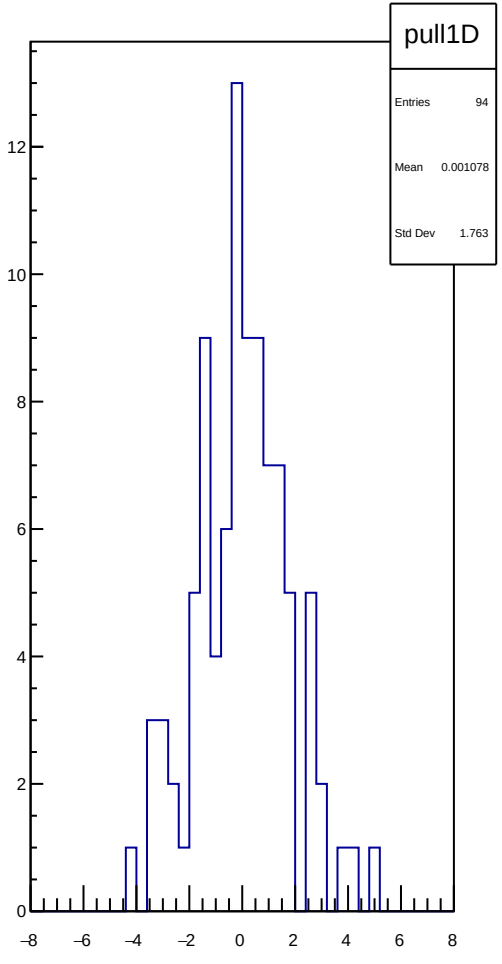

diff_cav4bX_rms vs run
×10^3
600
580
560
540
520
500
480
460
440
χ² / ndf 6078 / 93
p0 5.092e+05 ± 378.2

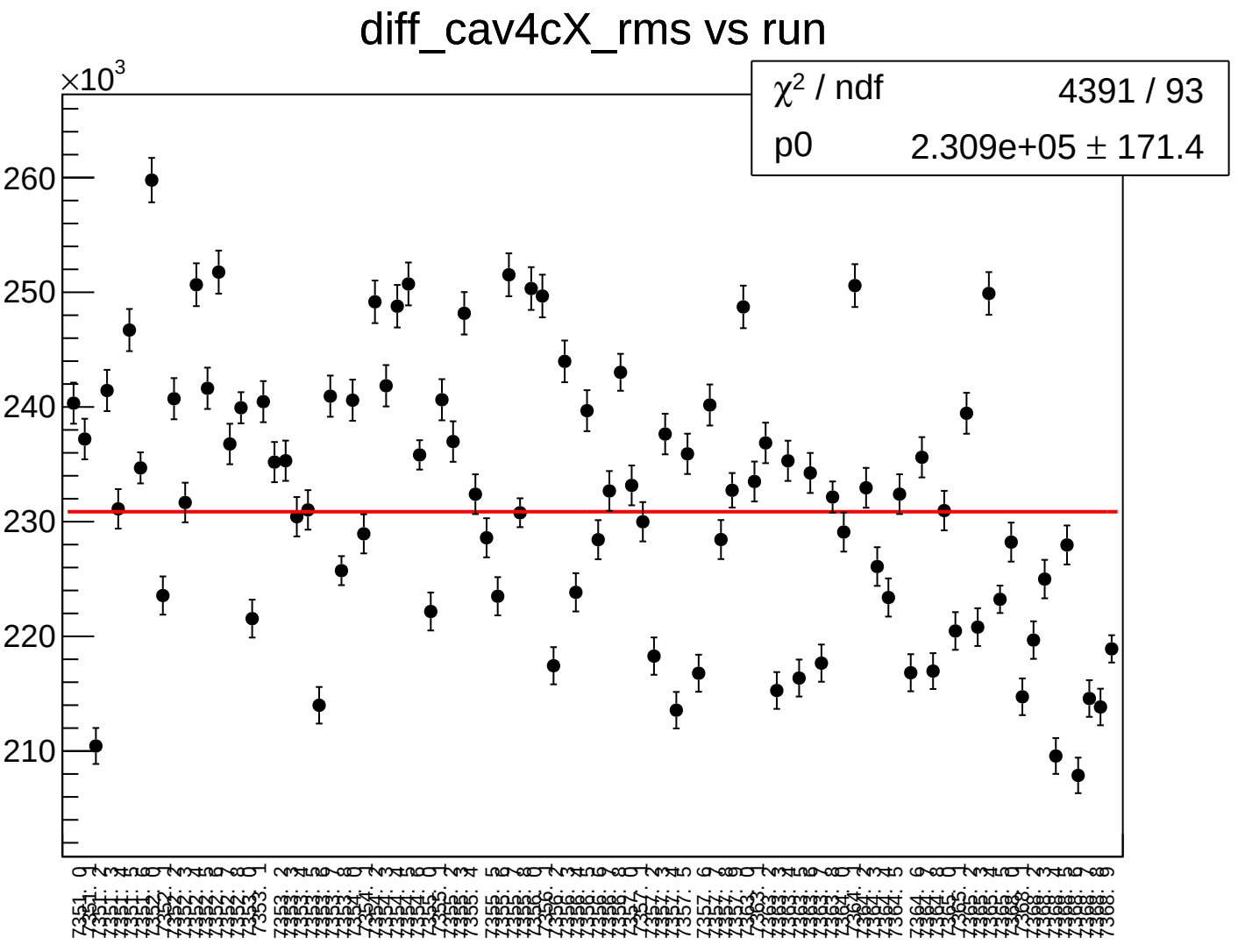

diff_cav4bY_mean vs run
χ² / ndf 124.8 / 93
p0 −8.114 ± 377.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean 317.9
Std Dev 0
2
1
0
−1
−2
−3

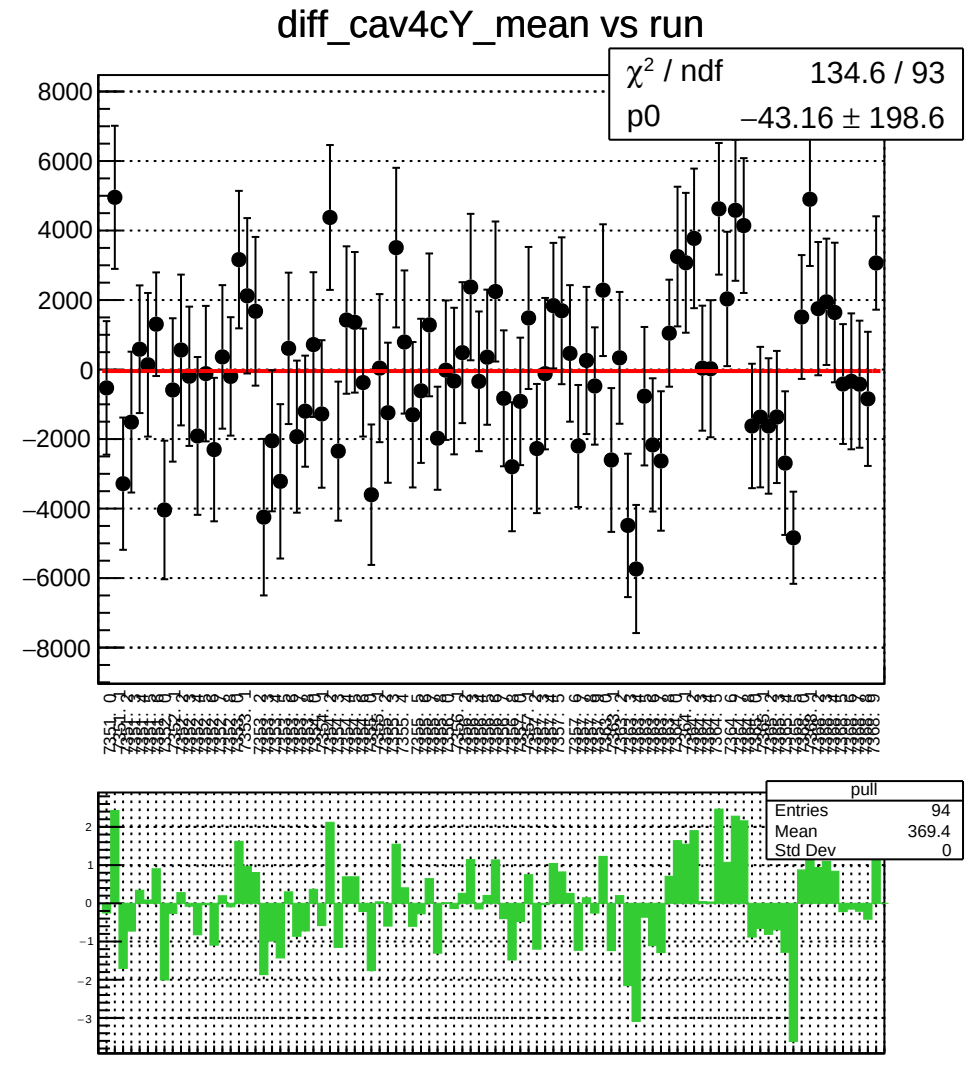

pull1D
Entries 94
Mean 0.01415
Std Dev 1.152
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

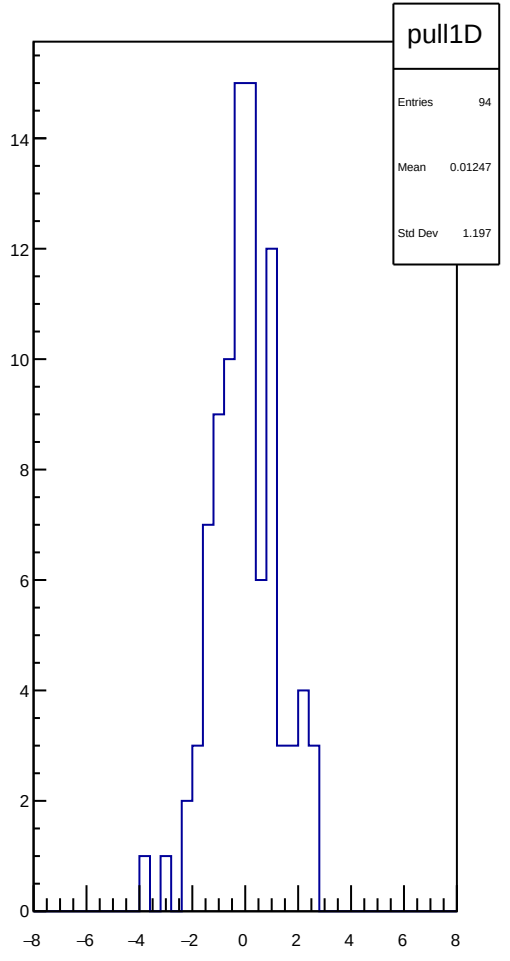

diff_cav4bY_rms vs run
×10^3
χ² / ndf 6034 / 93
p0 3.594e+05 ± 267
400
380
360
340
320
300

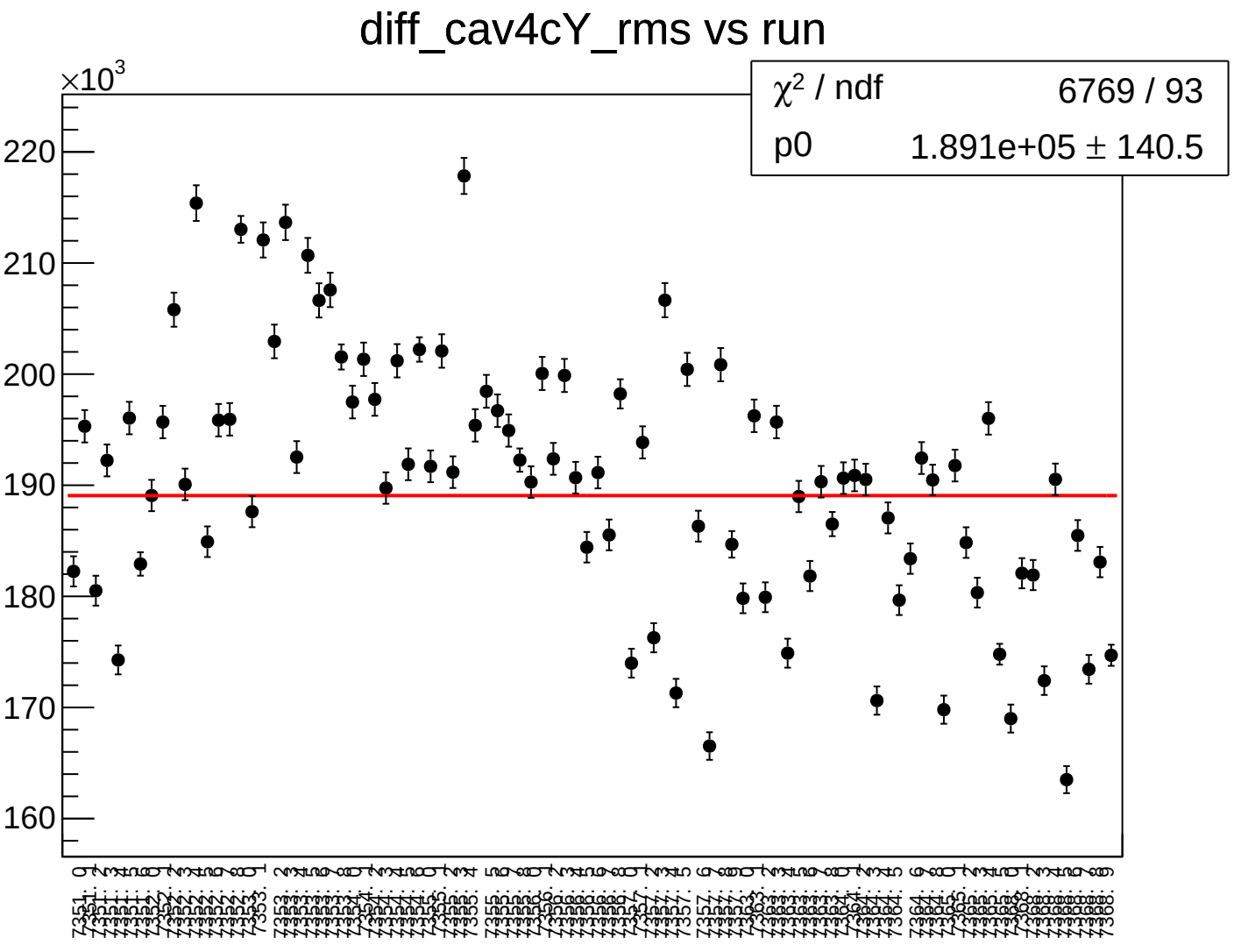

diff_cav4cX_mean vs run
χ² / ndf 292.1 / 93
p0 346 ± 242.4
15000
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −2703
Std Dev 0
4
2
0
−2
−4

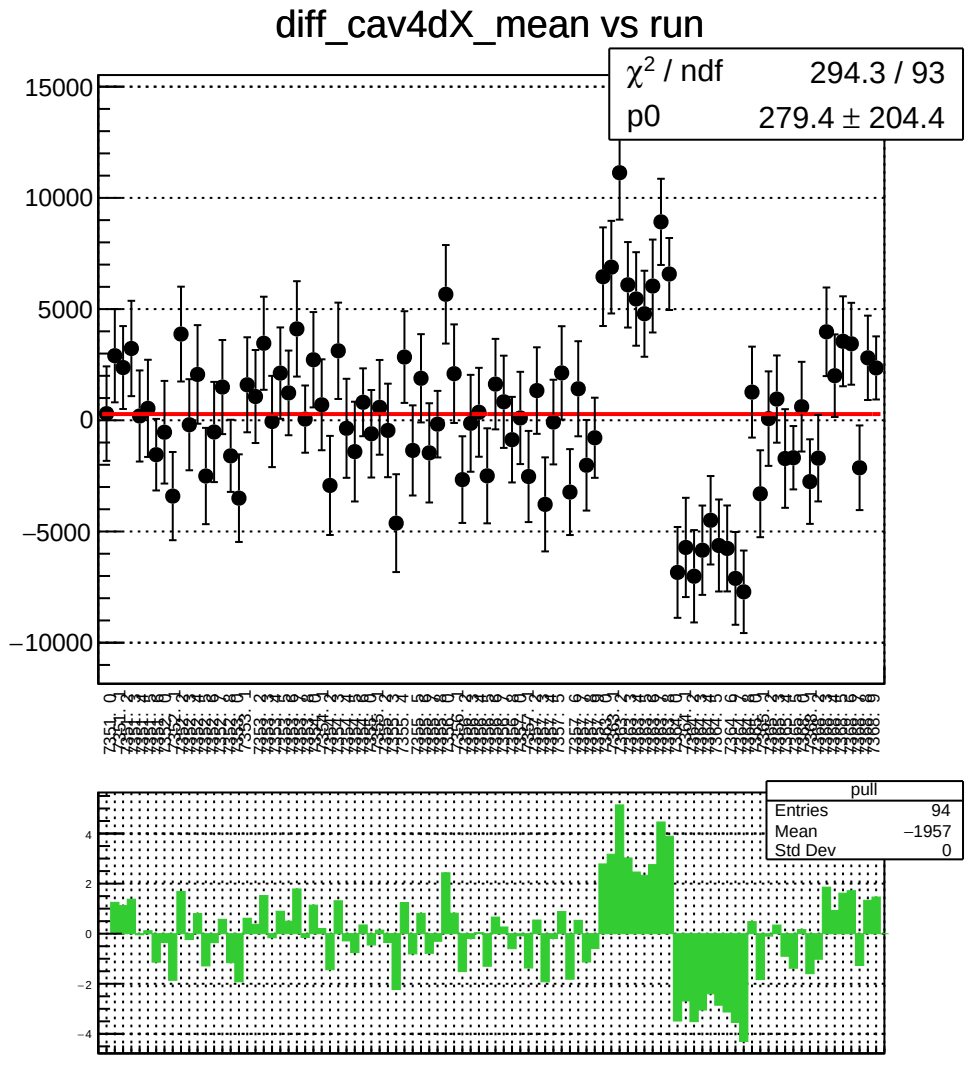

pull1D
Entries 94
Mean 0.001078
Std Dev 1.763
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

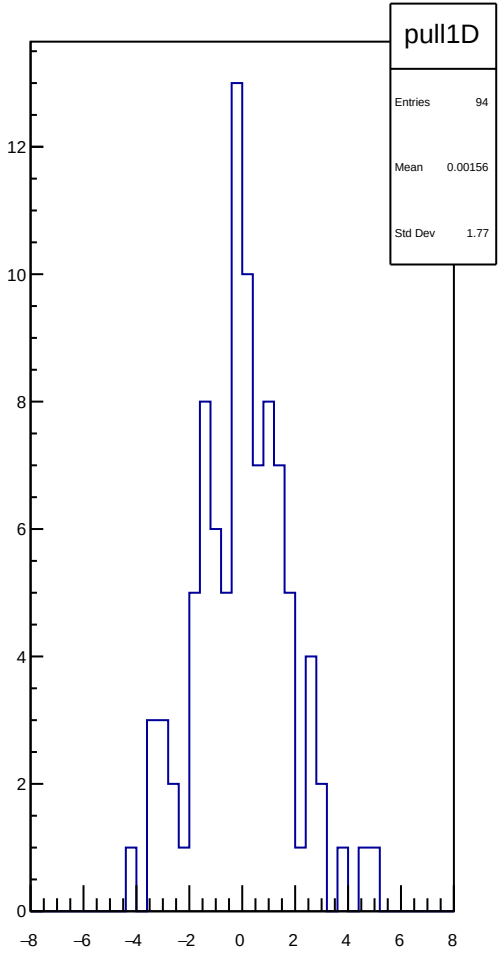

diff_cav4cX_rms vs run
×10^3
260
250
240
230
220
210
χ² / ndf 4391 / 93
p0 2.309e+05 ± 171.4

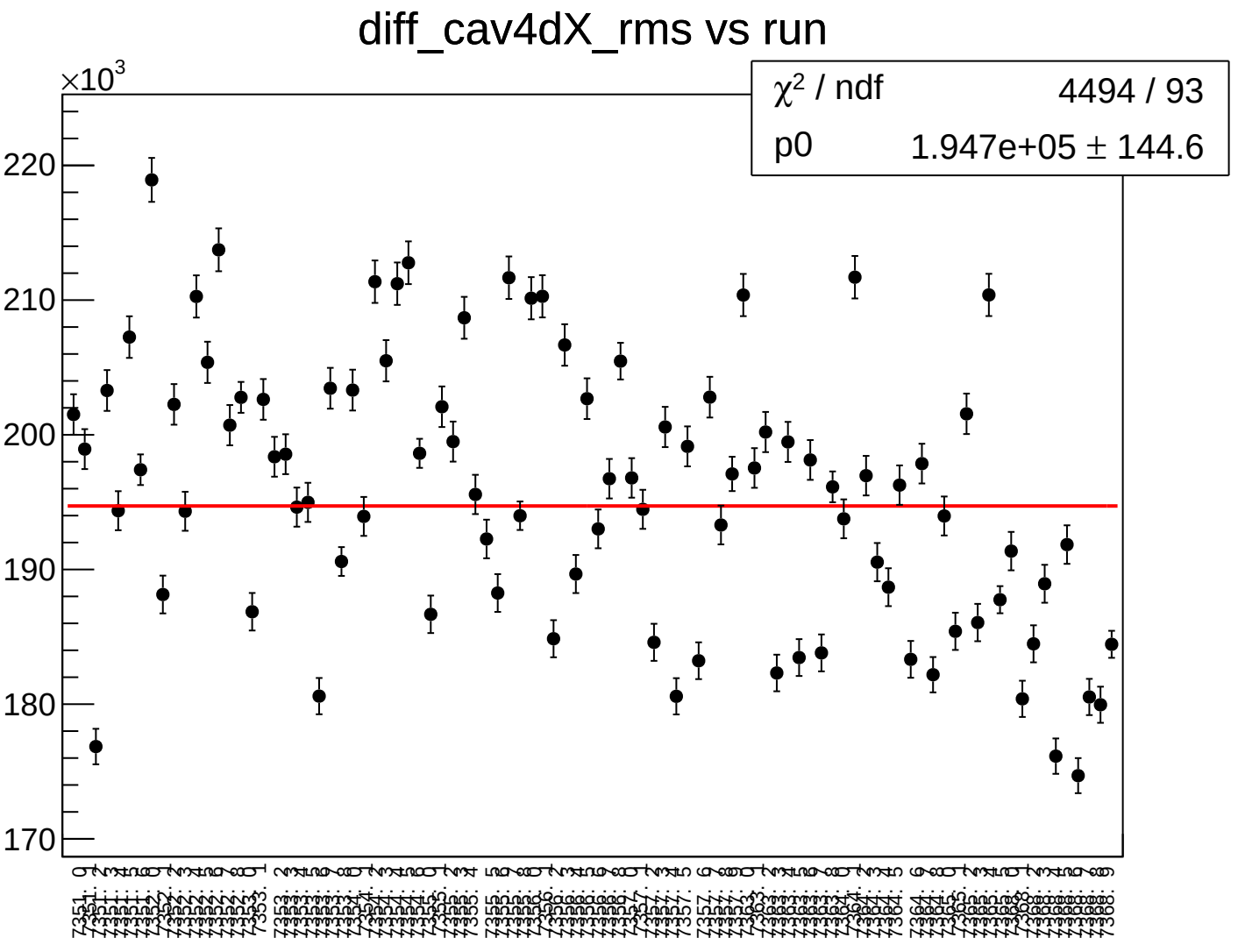

diff_cav4cY_mean vs run
χ² / ndf 134.6 / 93
p0 −43.16 ± 198.6
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 94
Mean 369.4
Std Dev 0
2
1
0
−1
−2
−3

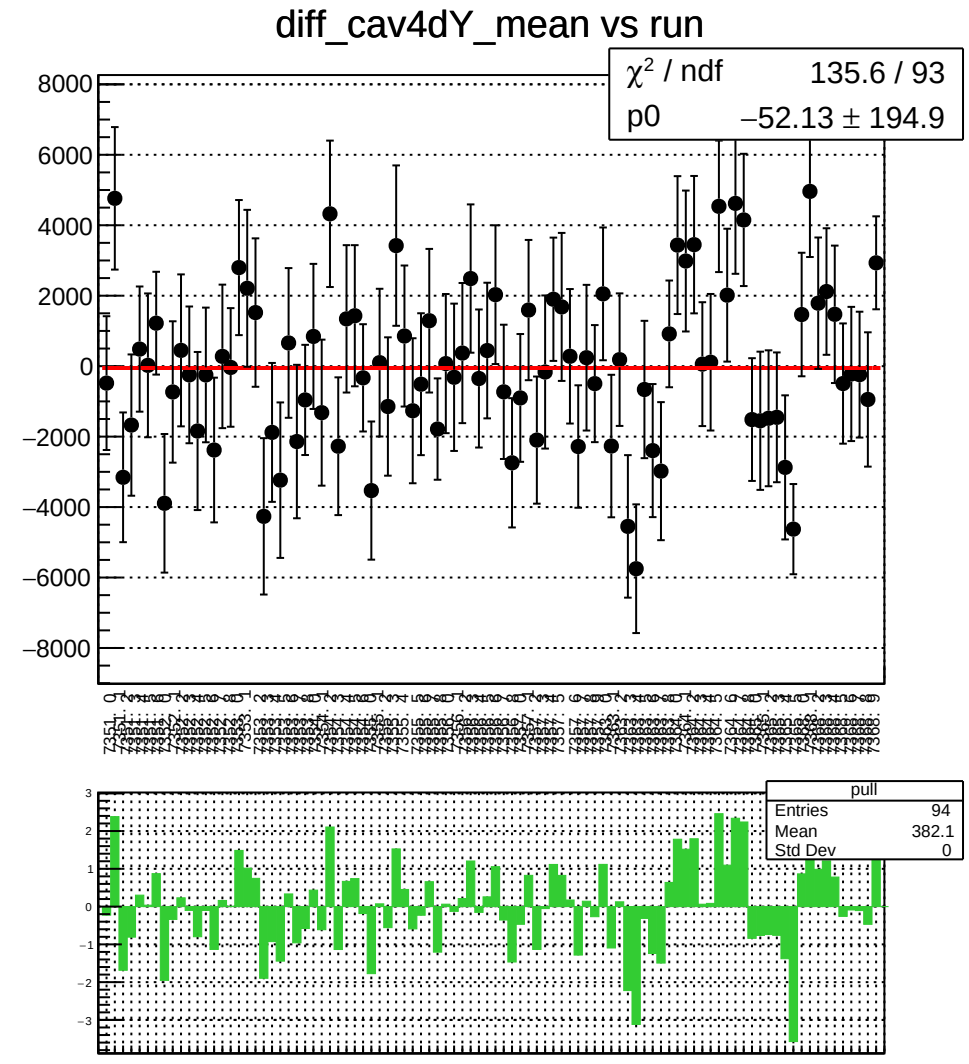

pull1D
Entries 94
Mean 0.01247
Std Dev 1.197
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

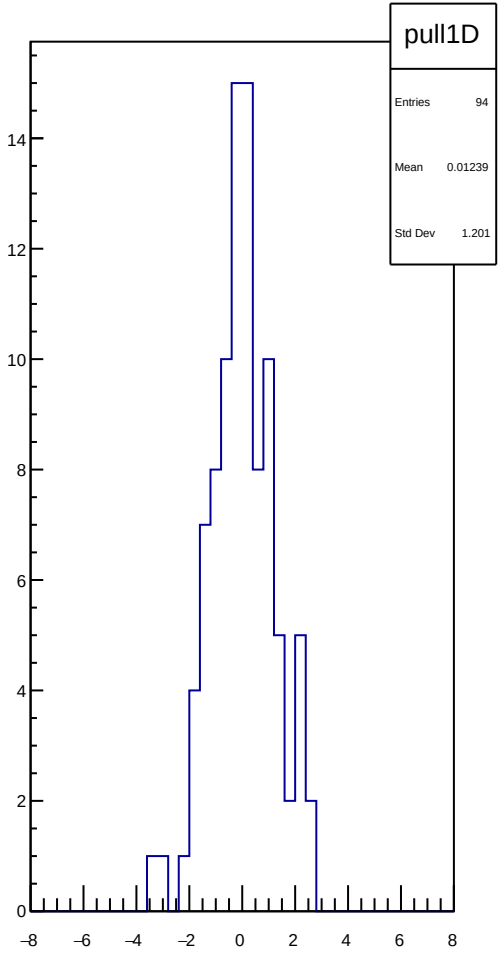

diff_cav4cY_rms vs run
×10^3
χ² / ndf 6769 / 93
p0 1.891e+05 ± 140.5
220
210
200
190
180
170
160

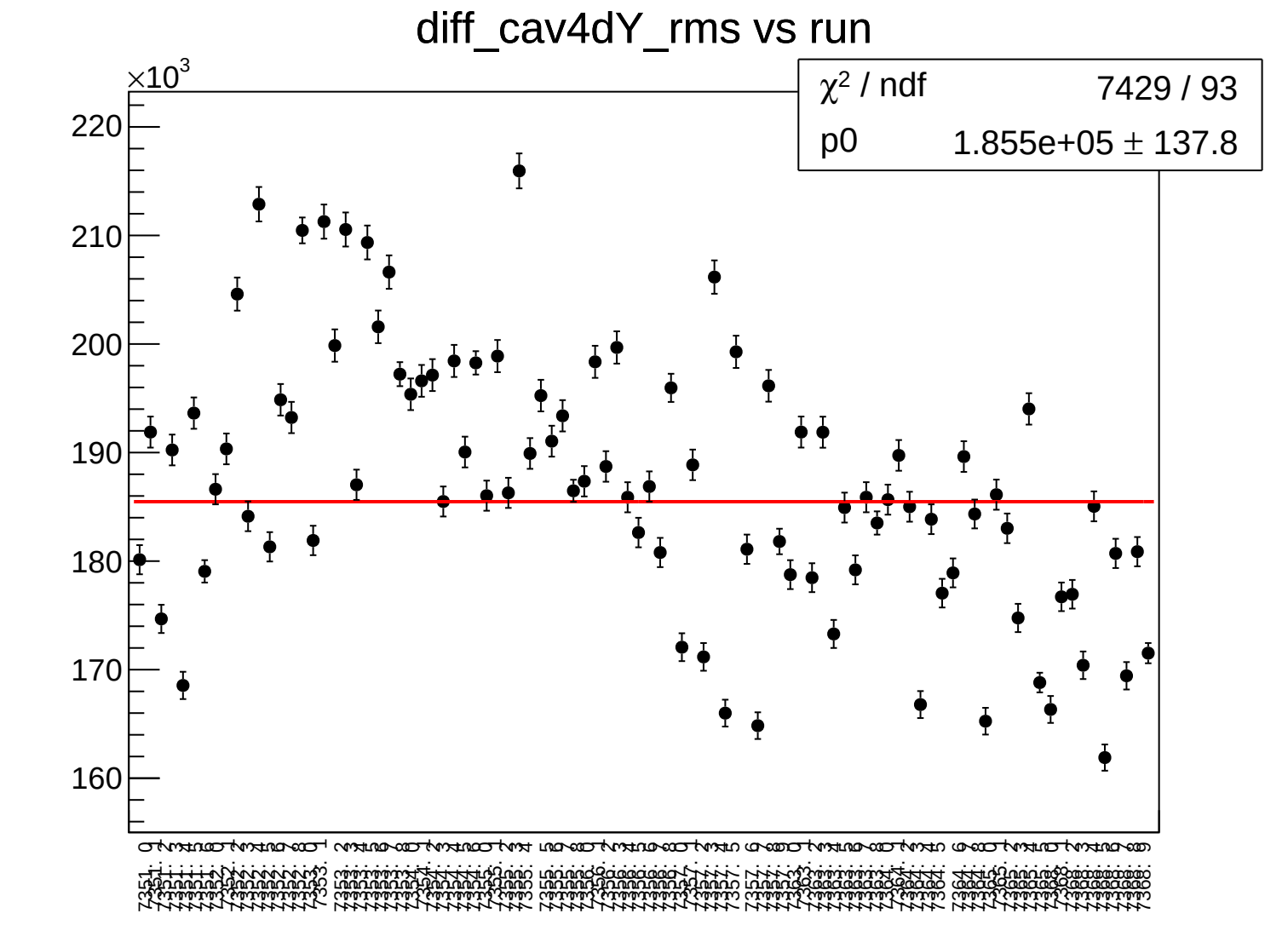

diff_cav4dX_mean vs run
χ² / ndf 294.3 / 93
p0 279.4 ± 204.4
15000
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −1957
Std Dev 0
4
2
0
−2
−4

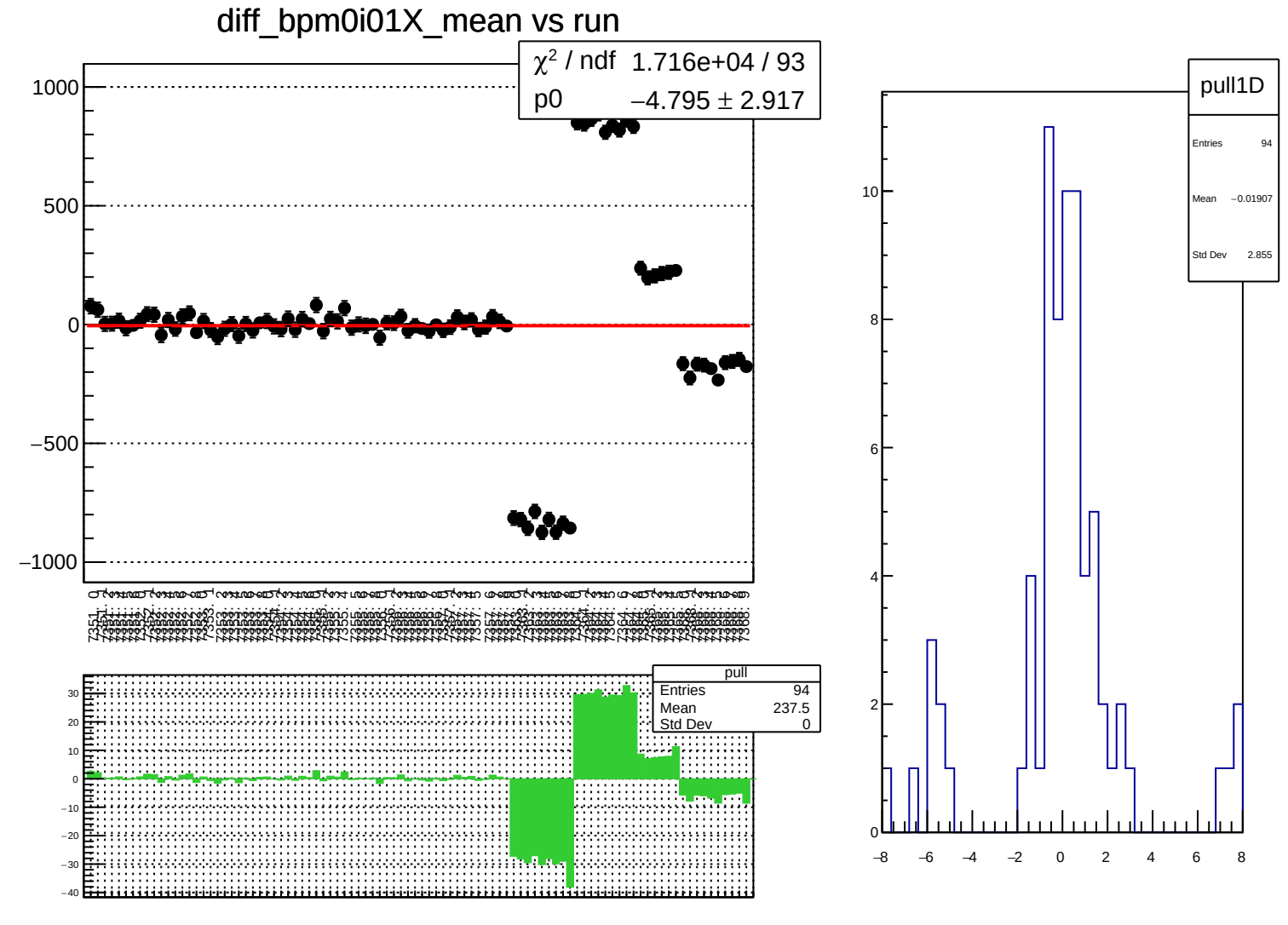

pull1D
Entries 94
Mean 0.00156
Std Dev 1.77
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

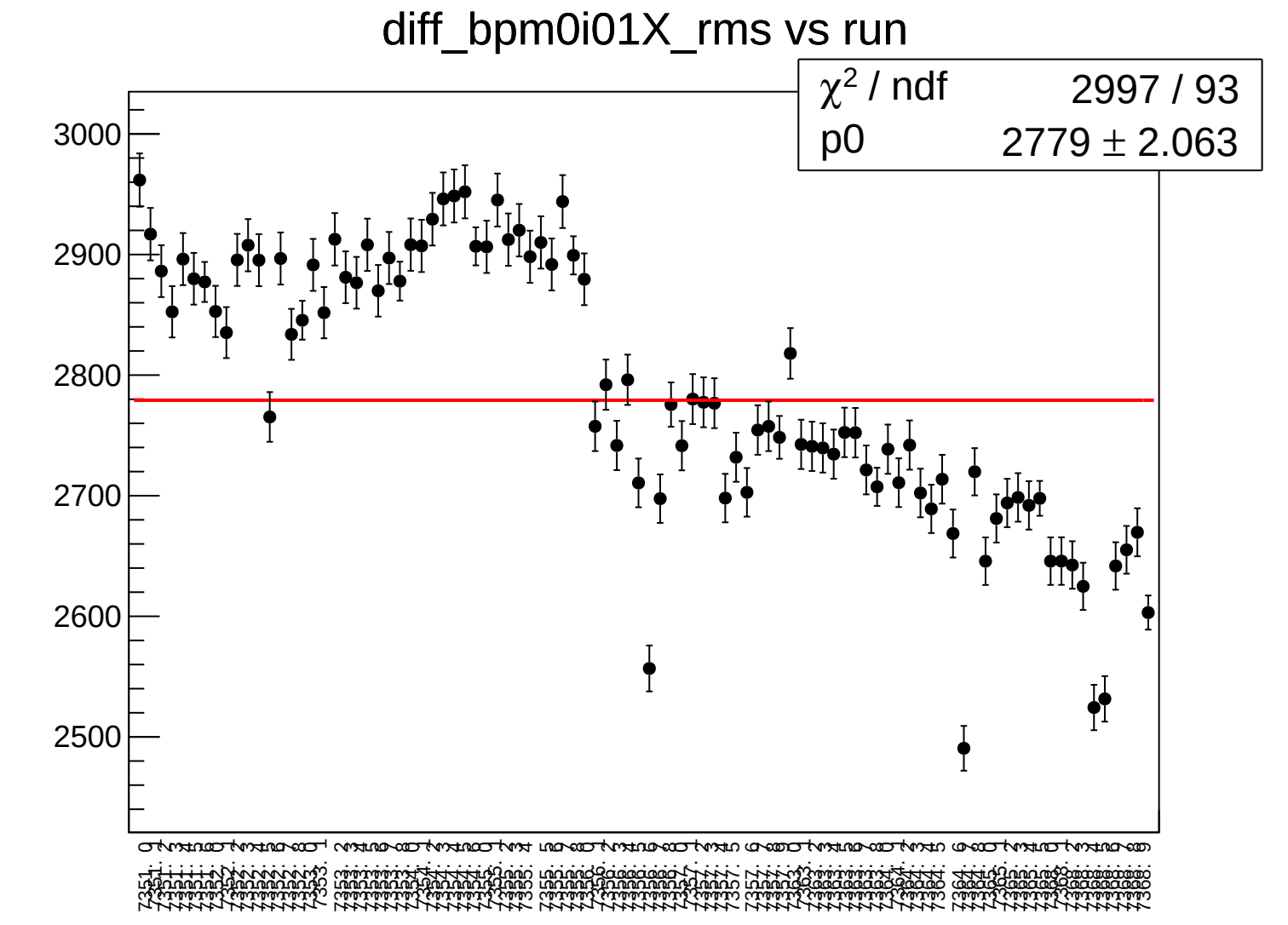

diff_cav4dX_rms vs run
×10^3
χ² / ndf 4494 / 93
p0 1.947e+05 ± 144.6
220
210
200
190
180
170

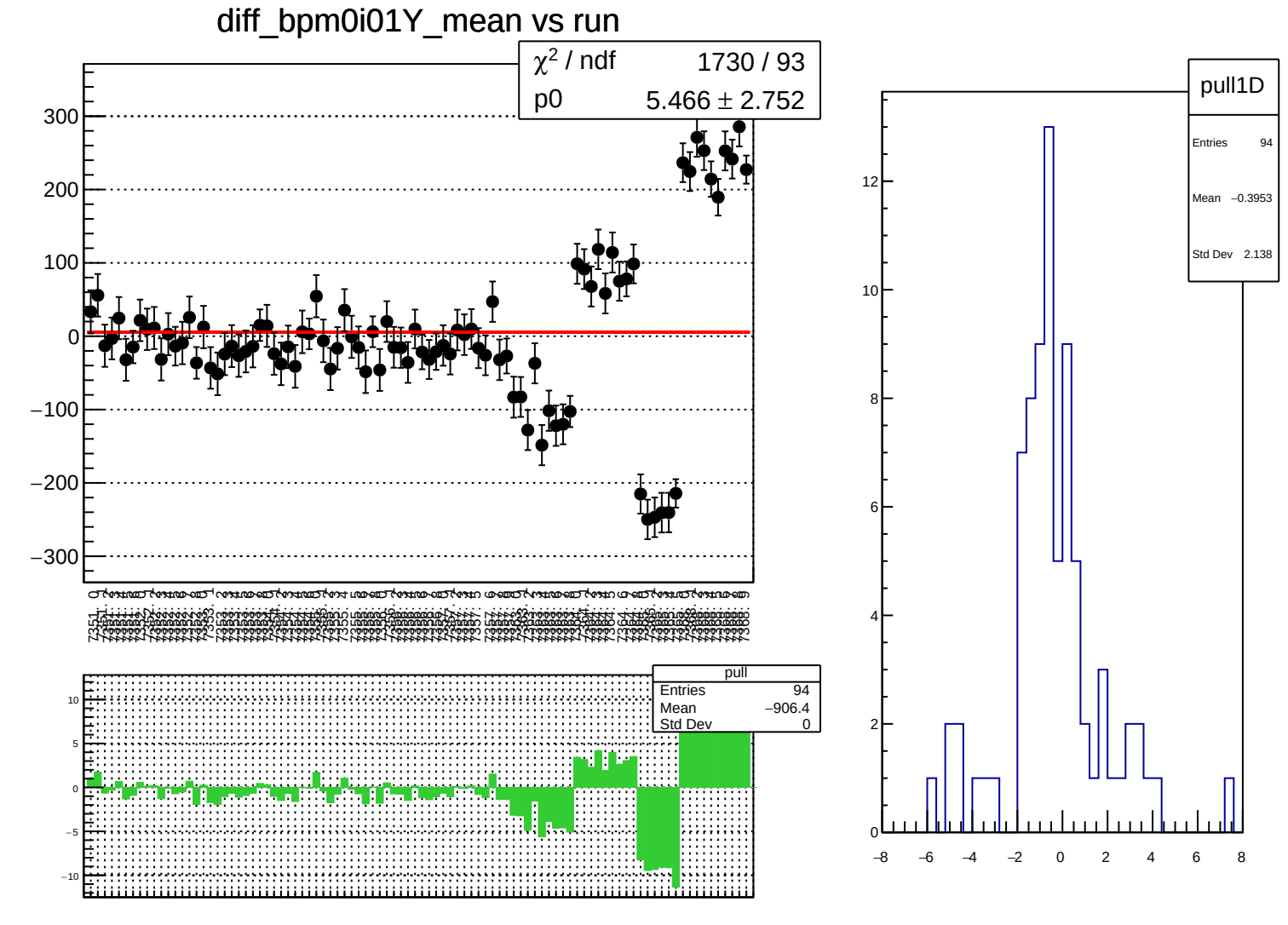

diff_cav4dY_mean vs run
χ² / ndf 135.6 / 93
p0 −52.13 ± 194.9
pull
Entries 94
Mean 382.1
Std Dev 0

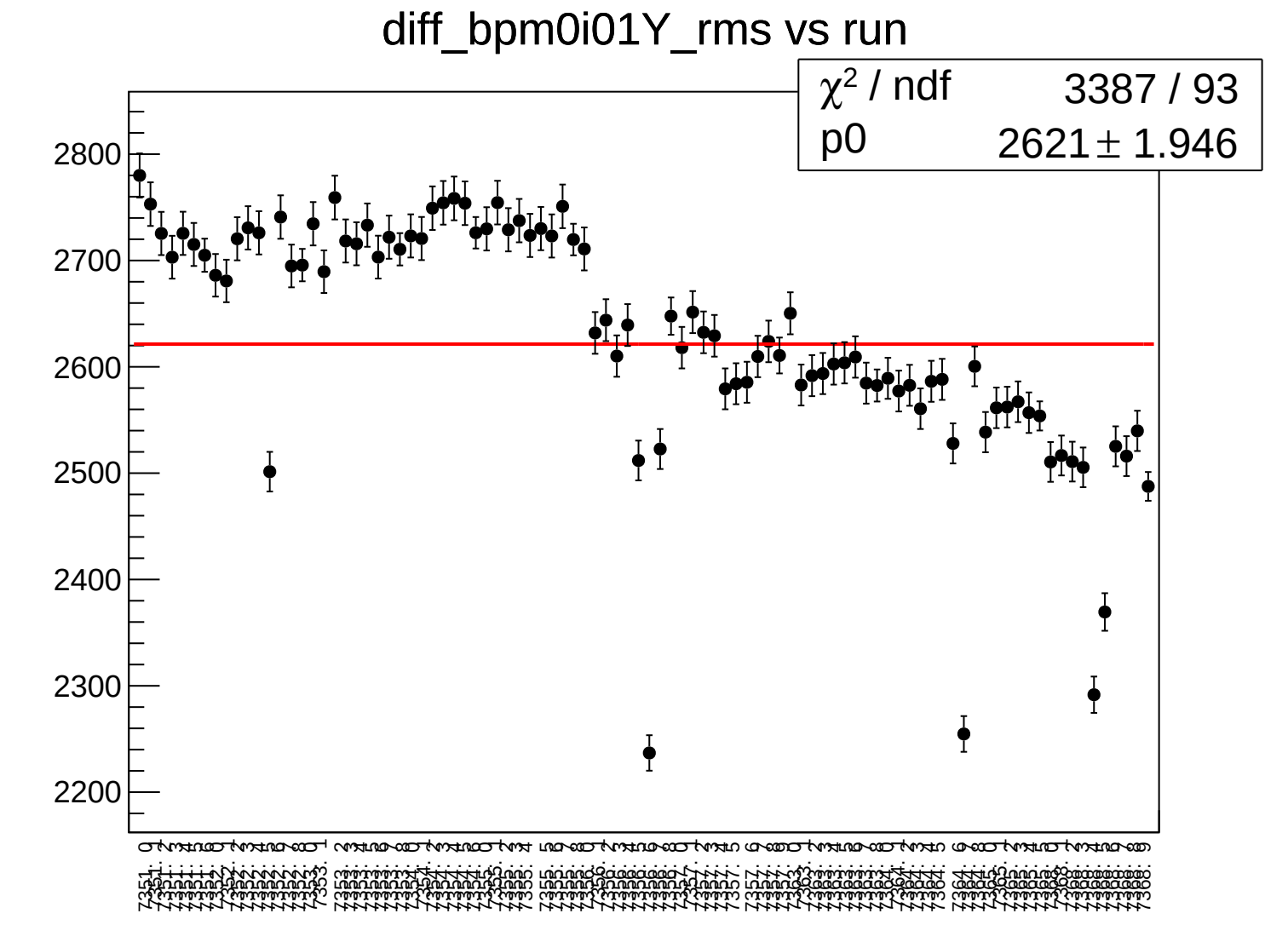

pull1D
Entries 94
Mean 0.01239
Std Dev 1.201

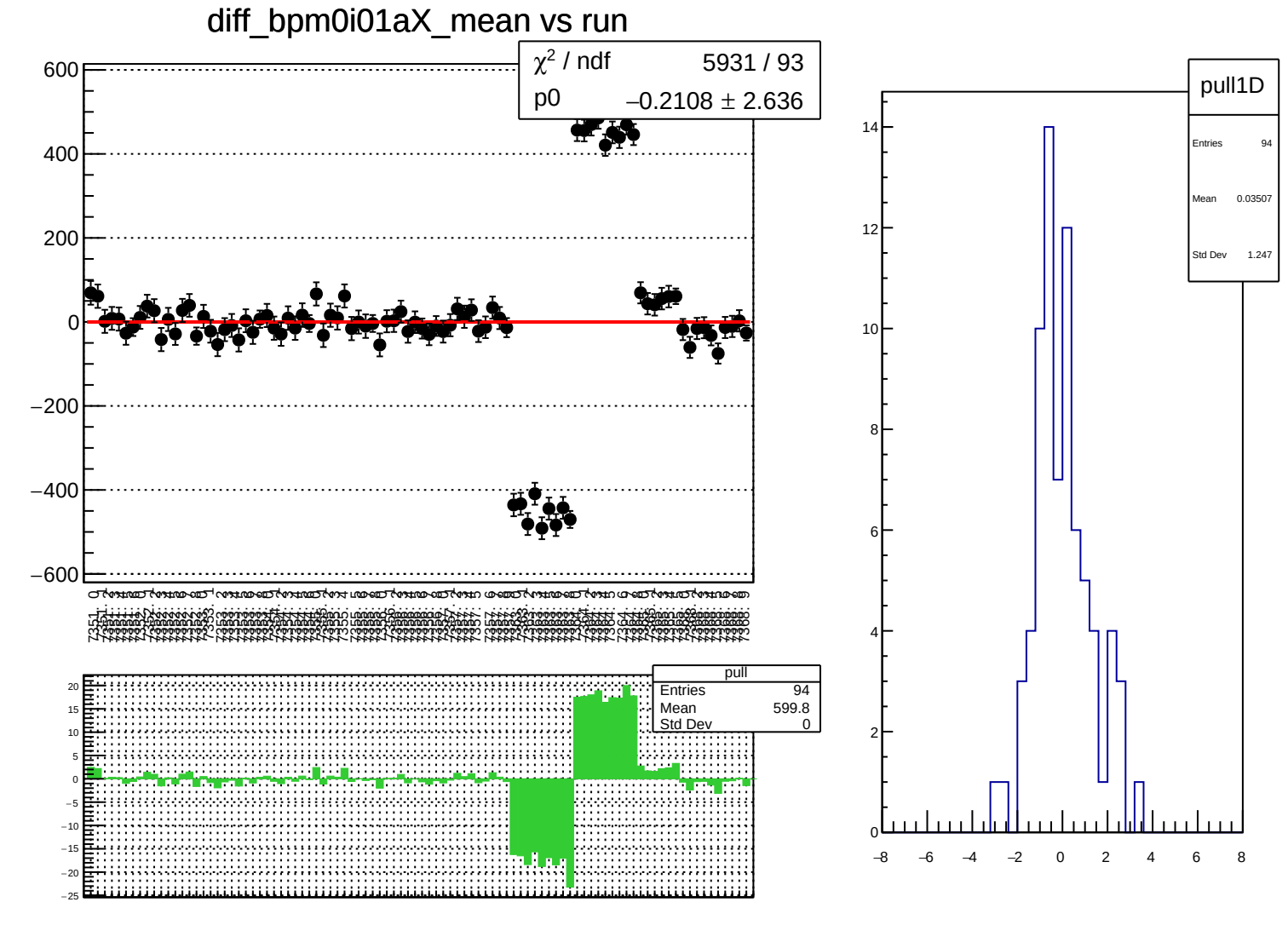

diff_cav4dY_rms vs run
×10^3
χ² / ndf 7429 / 93
p0 1.855e+05 ± 137.8
220
210
200
190
180
170
160

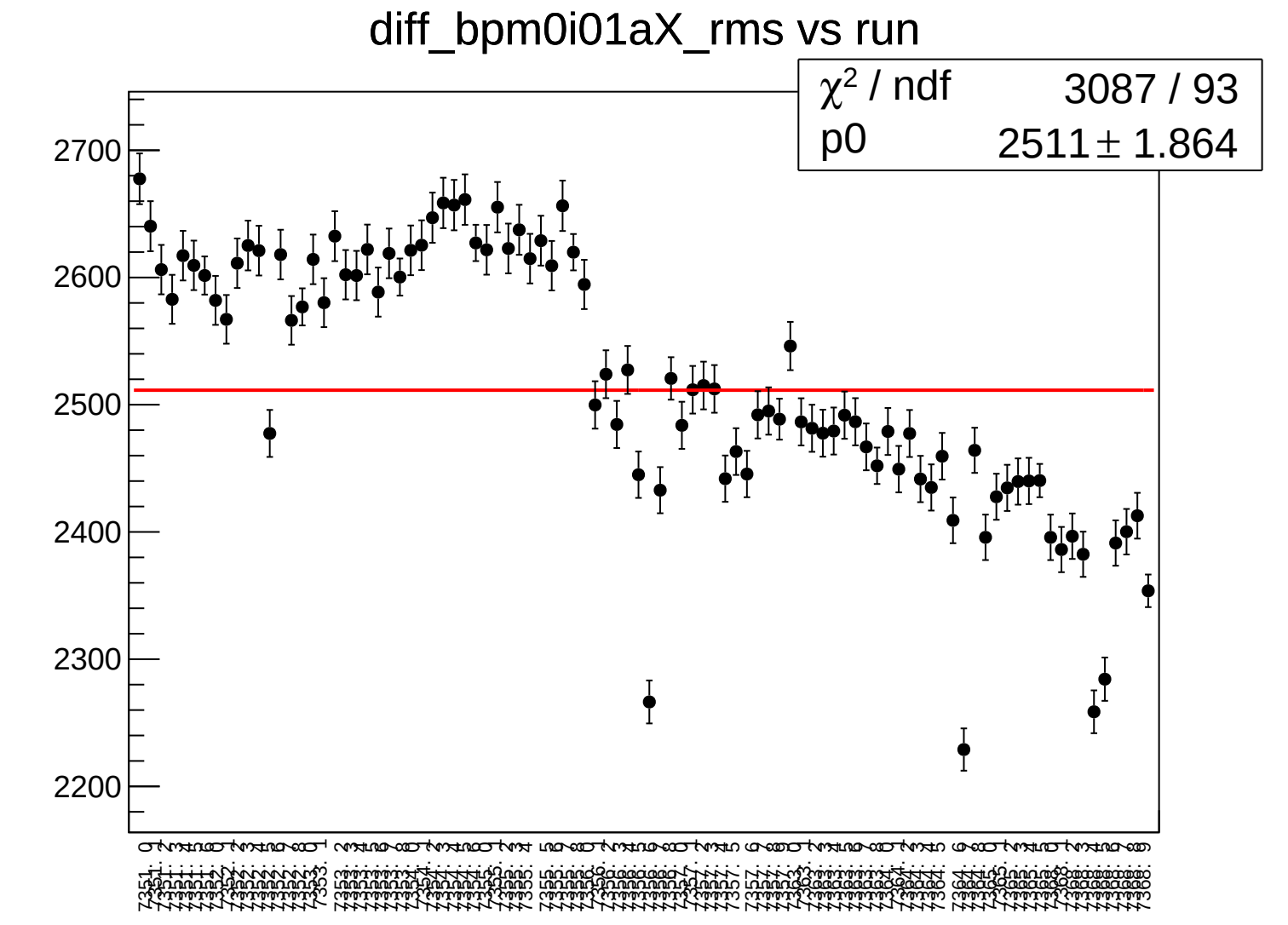

diff_bpm0i01X_mean vs run
χ² / ndf 1.716e+04 / 93
p0 −4.795 ± 2.917
1000
500
0
−500
−1000
pull
Entries 94
Mean 237.5
Std Dev 0
30
20
10
0
−10
−20
−30
−40
pull1D
Entries 94
Mean −0.01907
Std Dev 2.855
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

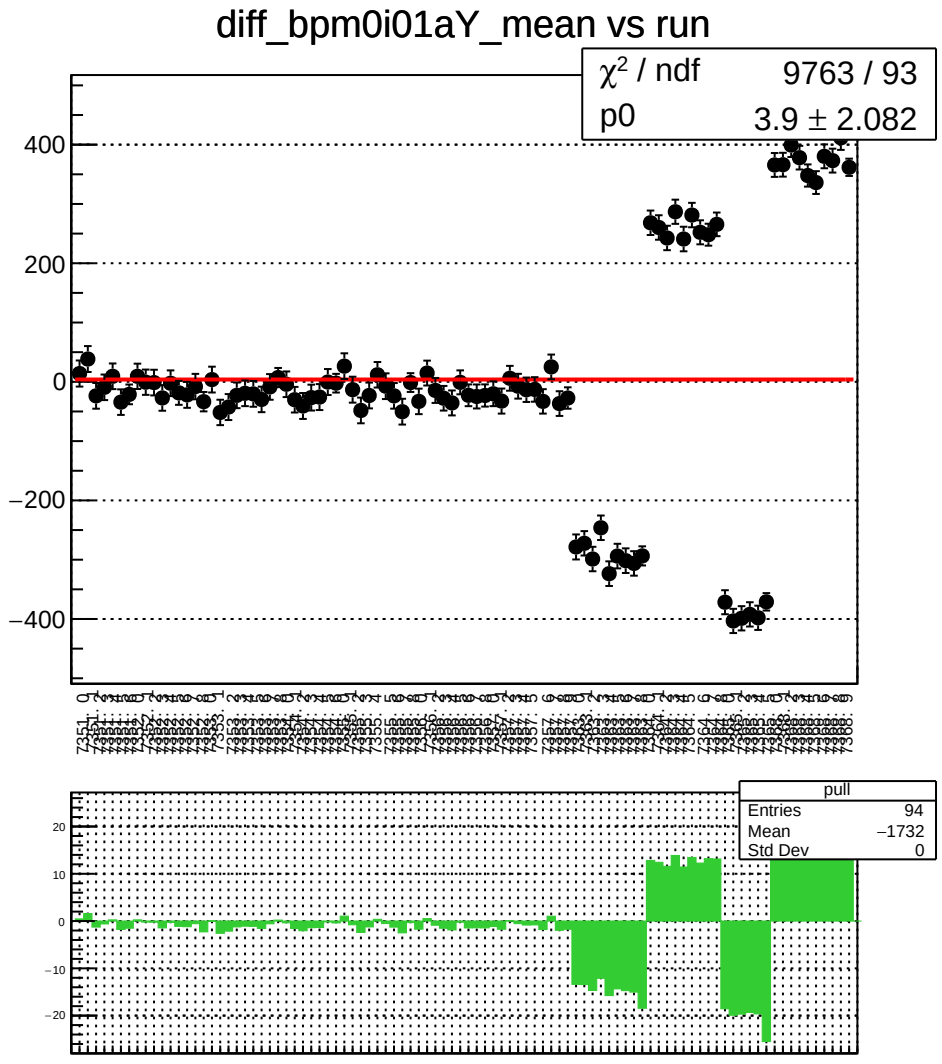

diff_bpm0i01X_rms vs run
χ² / ndf 2997 / 93
p0 2779 ± 2.063
3000
2900
2800
2700
2600
2500

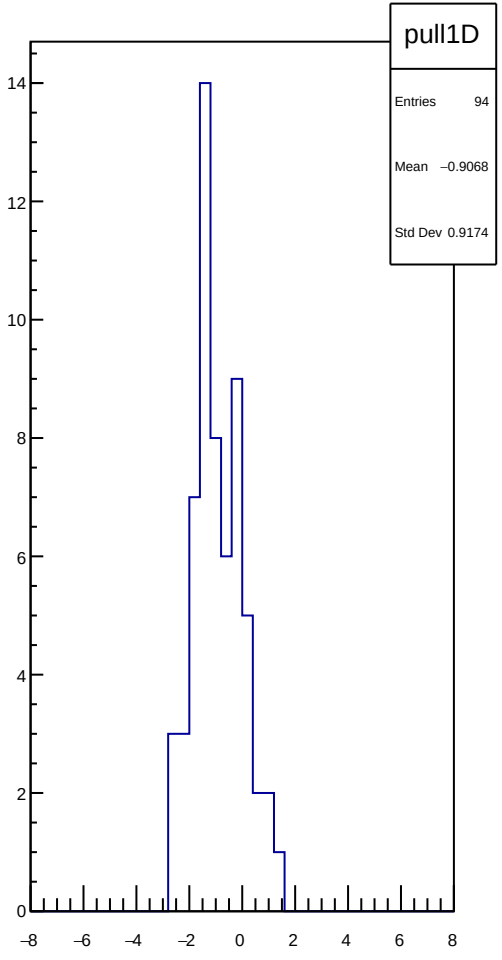

diff_bpm0i01Y_mean vs run
χ² / ndf 1730 / 93
p0 5.466 ± 2.752
300
200
100
0
−100
−200
−300
pull
Entries 94
Mean −906.4
Std Dev 0
10
5
0
−5
−10
pull1D
Entries 94
Mean −0.3953
Std Dev 2.138
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

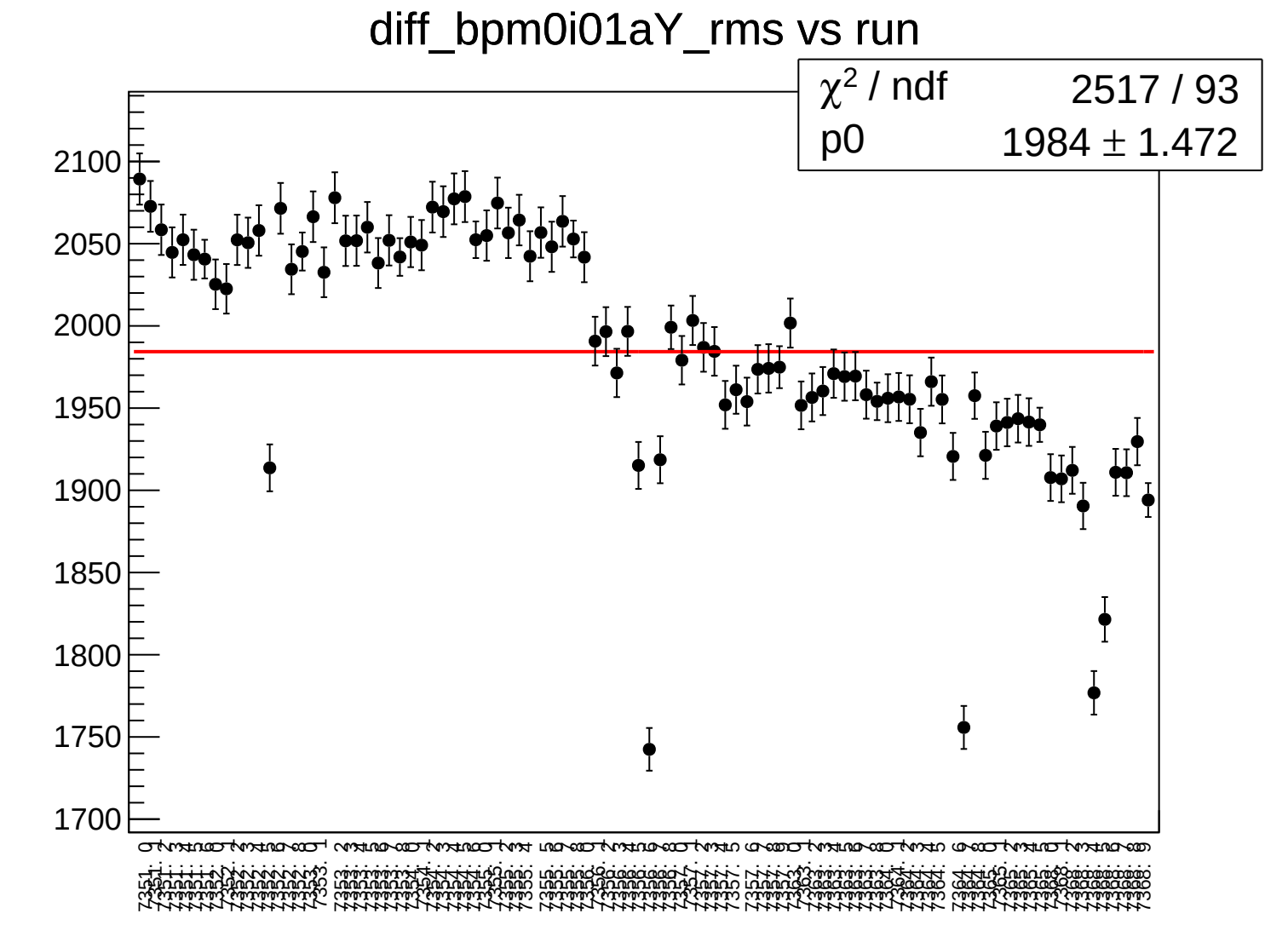

diff_bpm0i01Y_rms vs run
χ^2 / ndf 3387 / 93
p0 2621 ± 1.946
2800
2700
2600
2500
2400
2300
2200

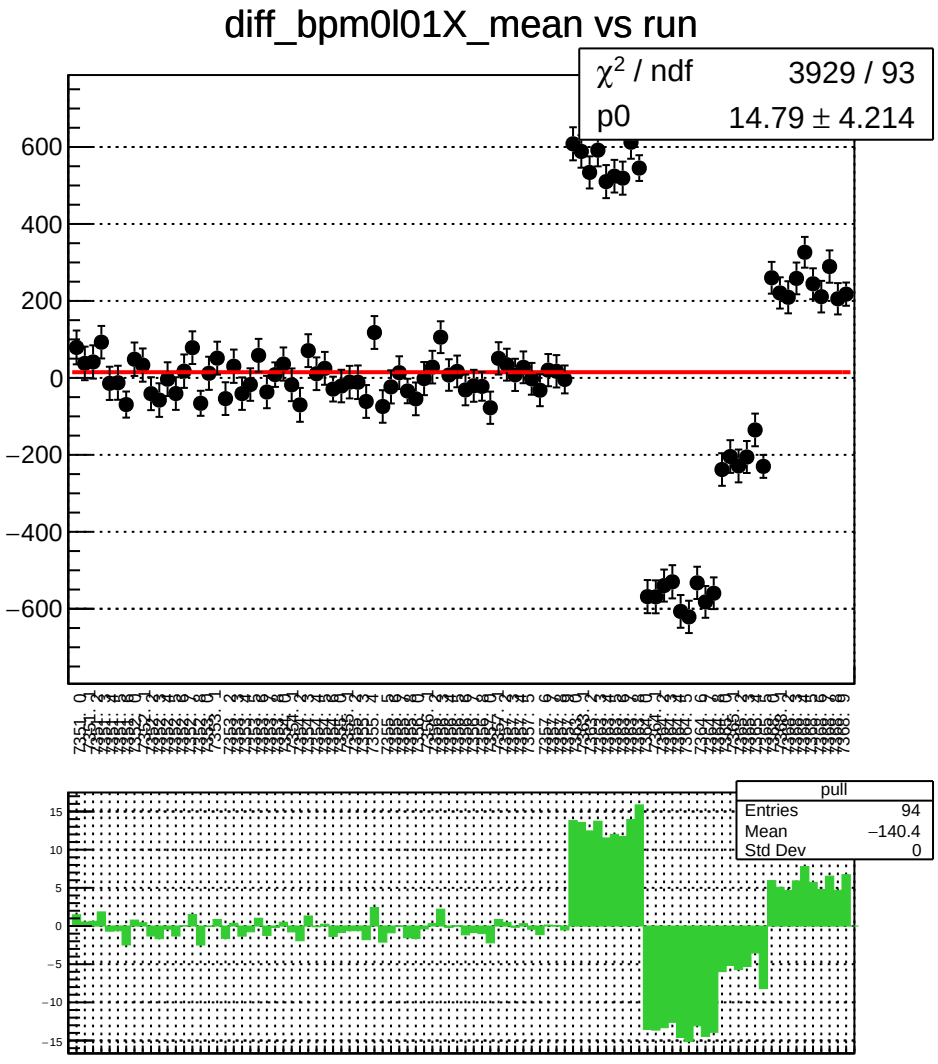

diff_bpm0i01aX_mean vs run
χ^2 / ndf 5931 / 93
p0 −0.2108 ± 2.636
pull
Entries 94
Mean 599.8
Std Dev 0
pull1D
Entries 94
Mean 0.03507
Std Dev 1.247

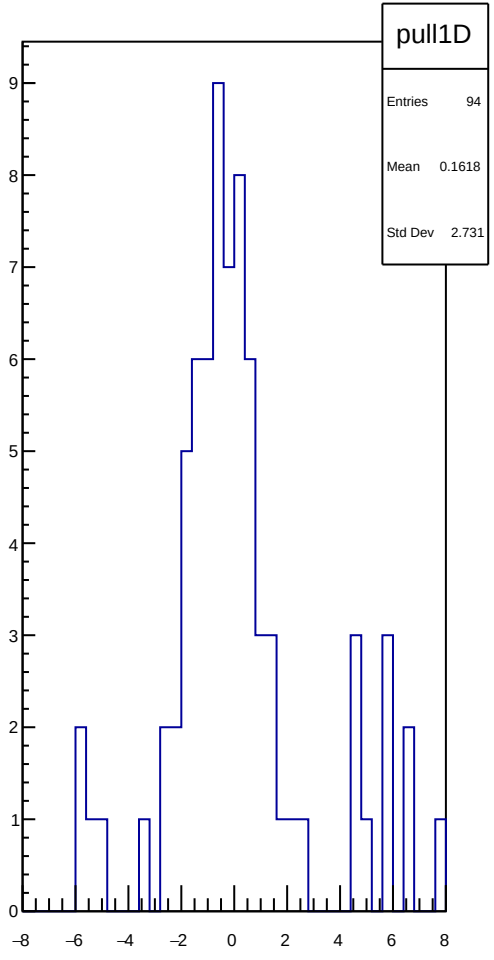

diff_bpm0i01aX_rms vs run
χ^2 / ndf 3087 / 93
p0 2511 ± 1.864
2700
2600
2500
2400
2300
2200

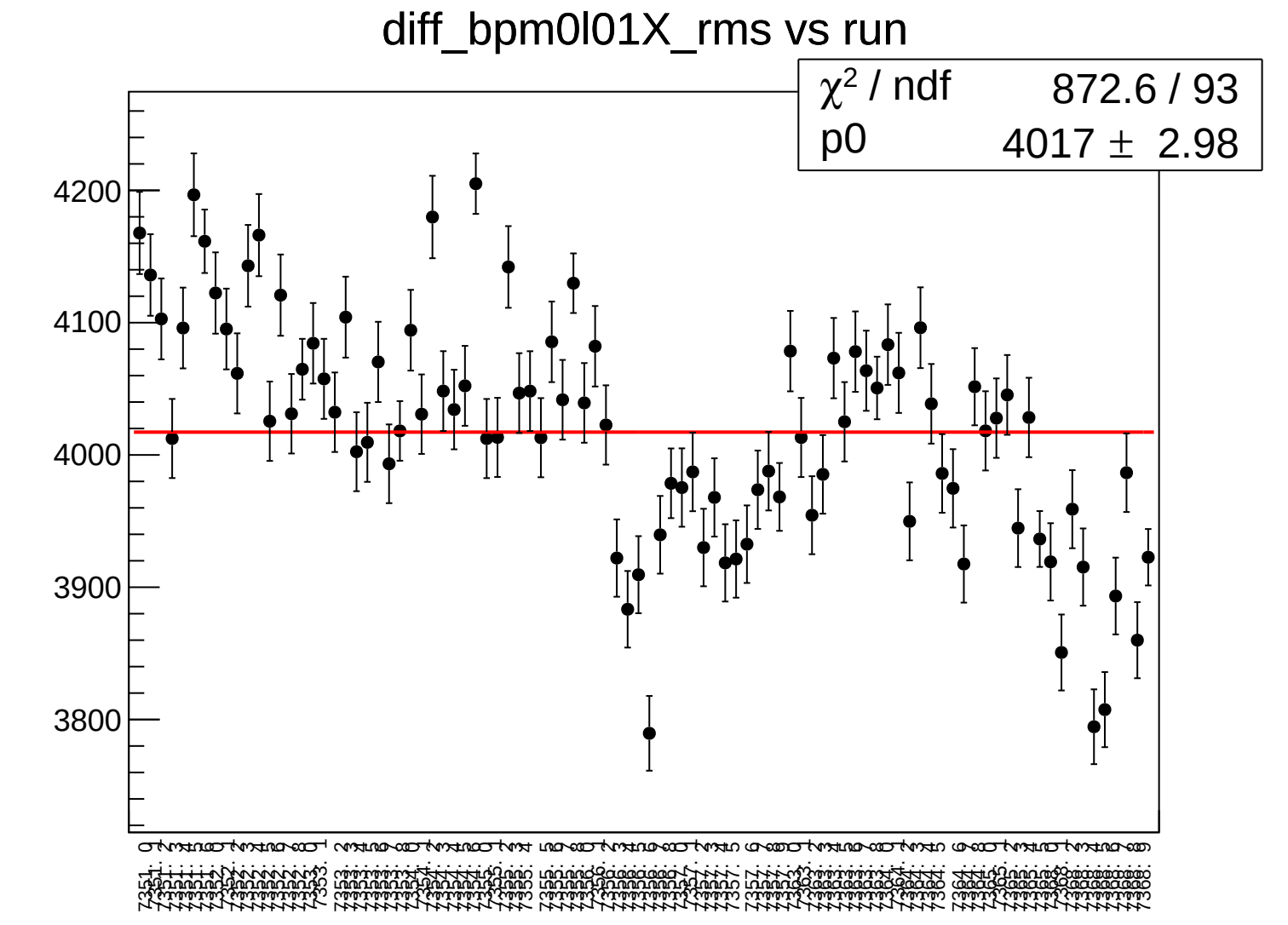

diff_bpm0i01aY_mean vs run
χ² / ndf 9763 / 93
p0 3.9 ± 2.082
400
200
0
−200
−400
pull
Entries 94
Mean −1732
Std Dev 0
20
10
0
−10
−20

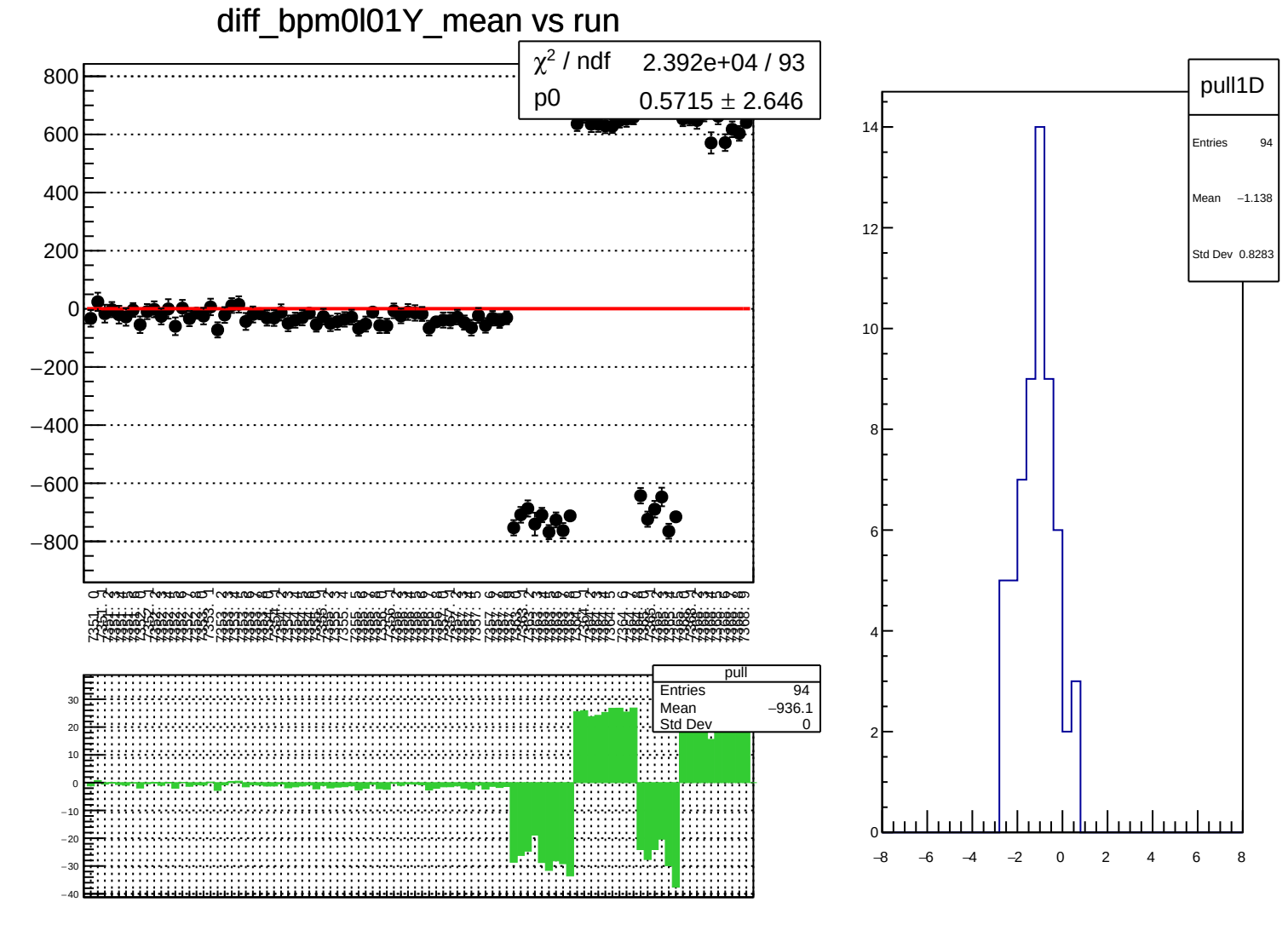

pull1D
Entries 94
Mean −0.9068
Std Dev 0.9174
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

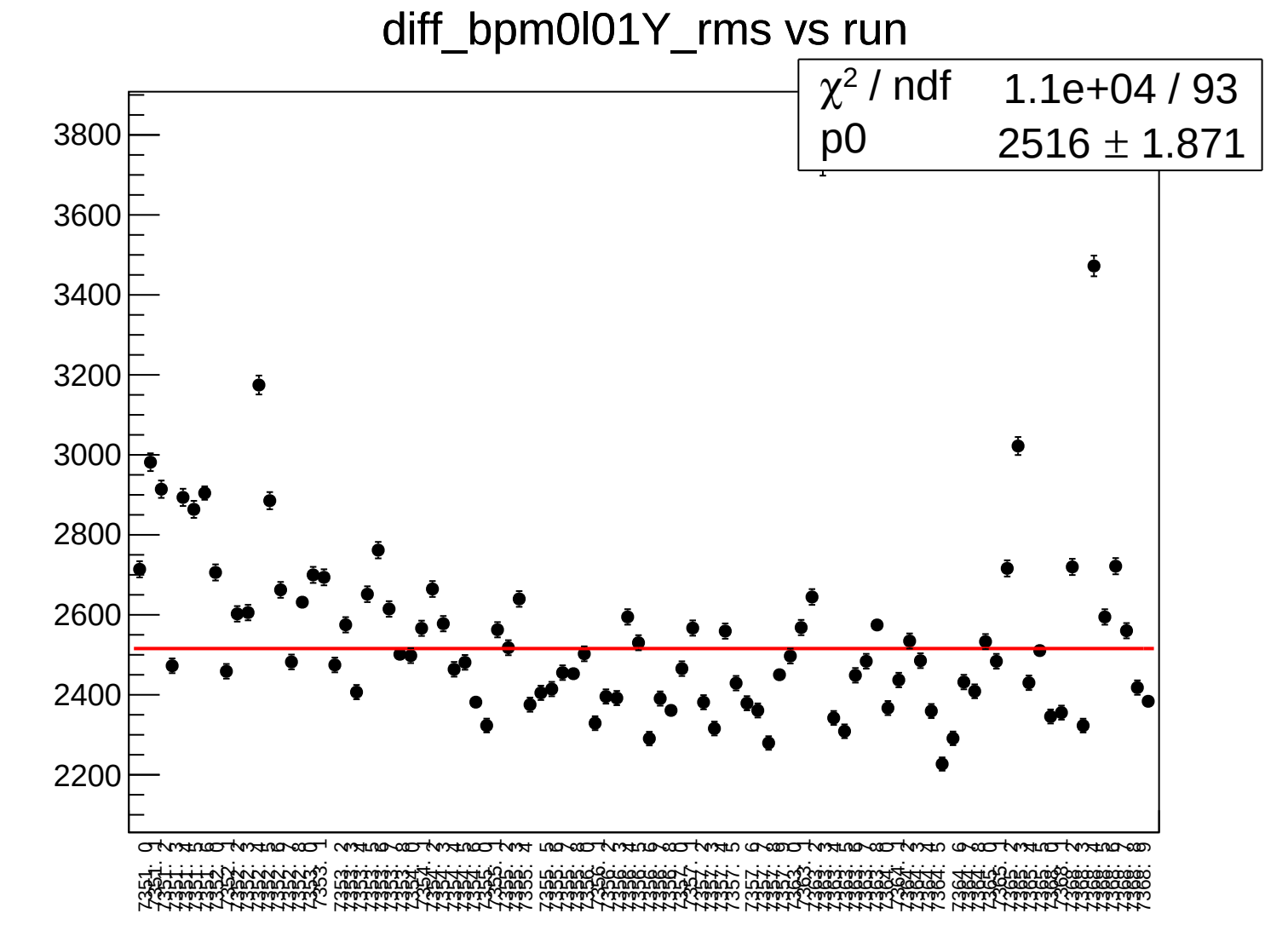

diff_bpm0i01aY_rms vs run
χ² / ndf 2517 / 93
p0 1984 ± 1.472
2100
2050
2000
1950
1900
1850
1800
1750
1700

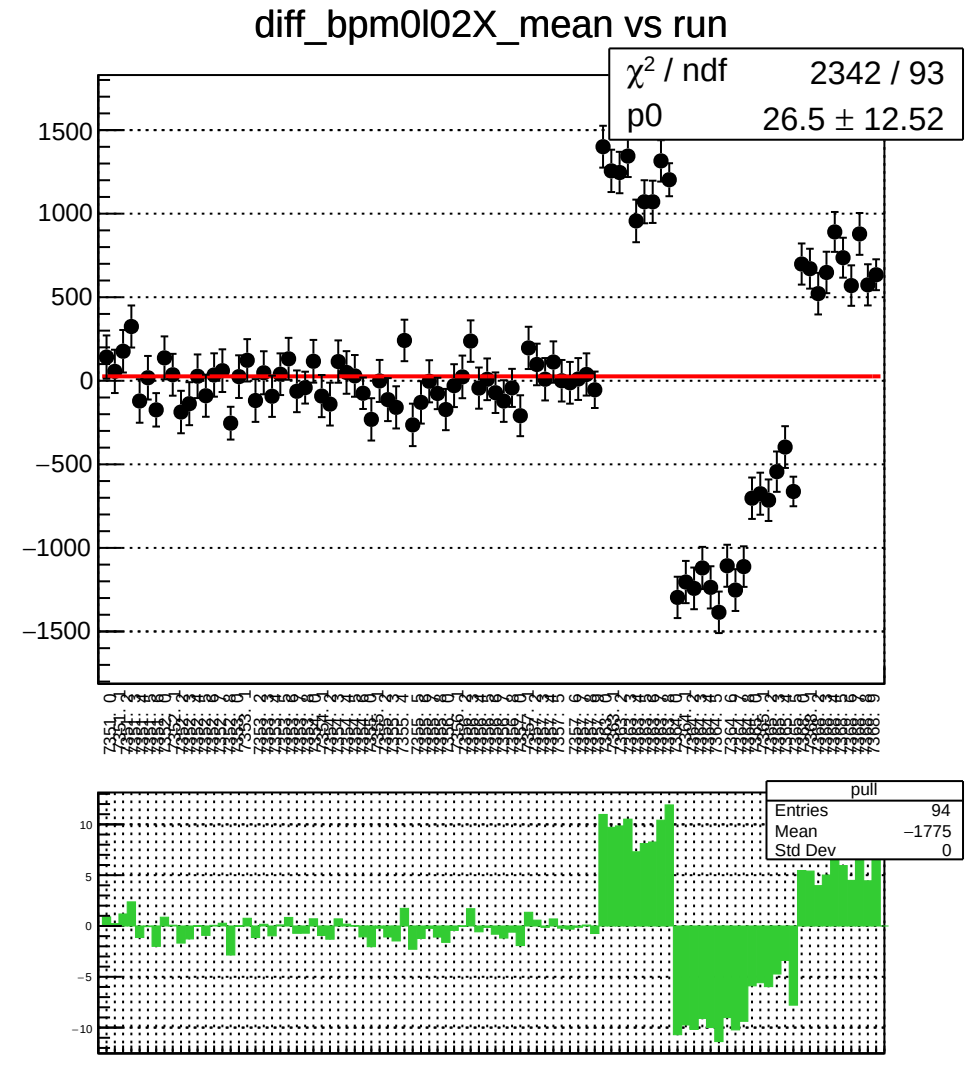

diff_bpm0l01X_mean vs run
χ^2 / ndf 3929 / 93
p0 14.79 ± 4.214
pull
Entries 94
Mean −140.4
Std Dev 0

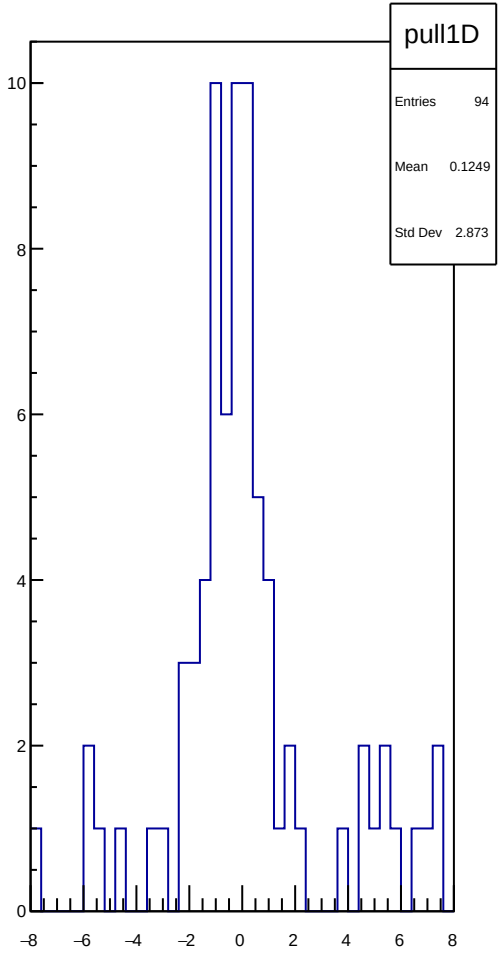

pull1D
Entries 94
Mean 0.1618
Std Dev 2.731

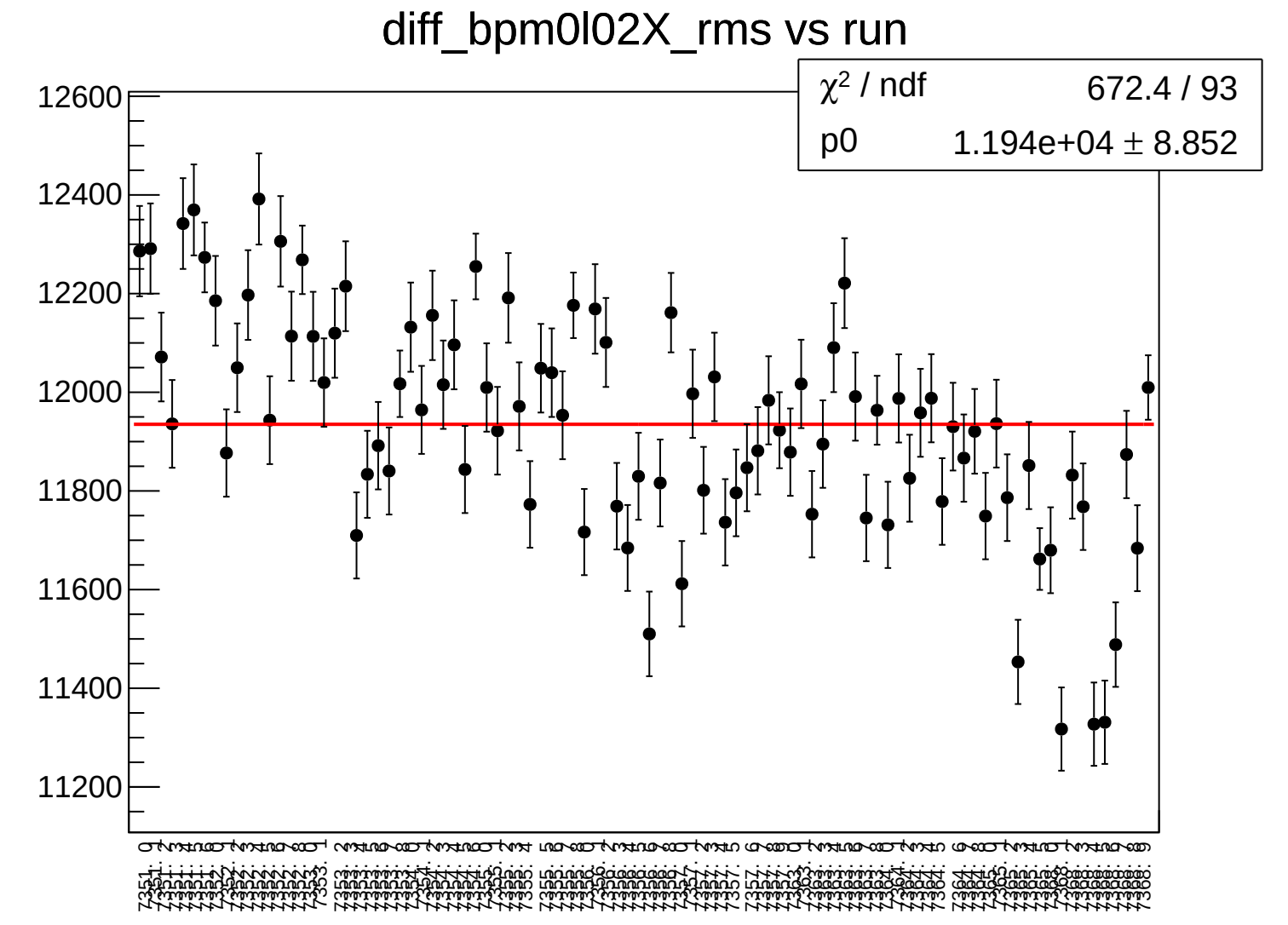

diff_bpm0l01X_rms vs run
χ² / ndf 872.6 / 93
p0 4017 ± 2.98
4200
4100
4000
3900
3800

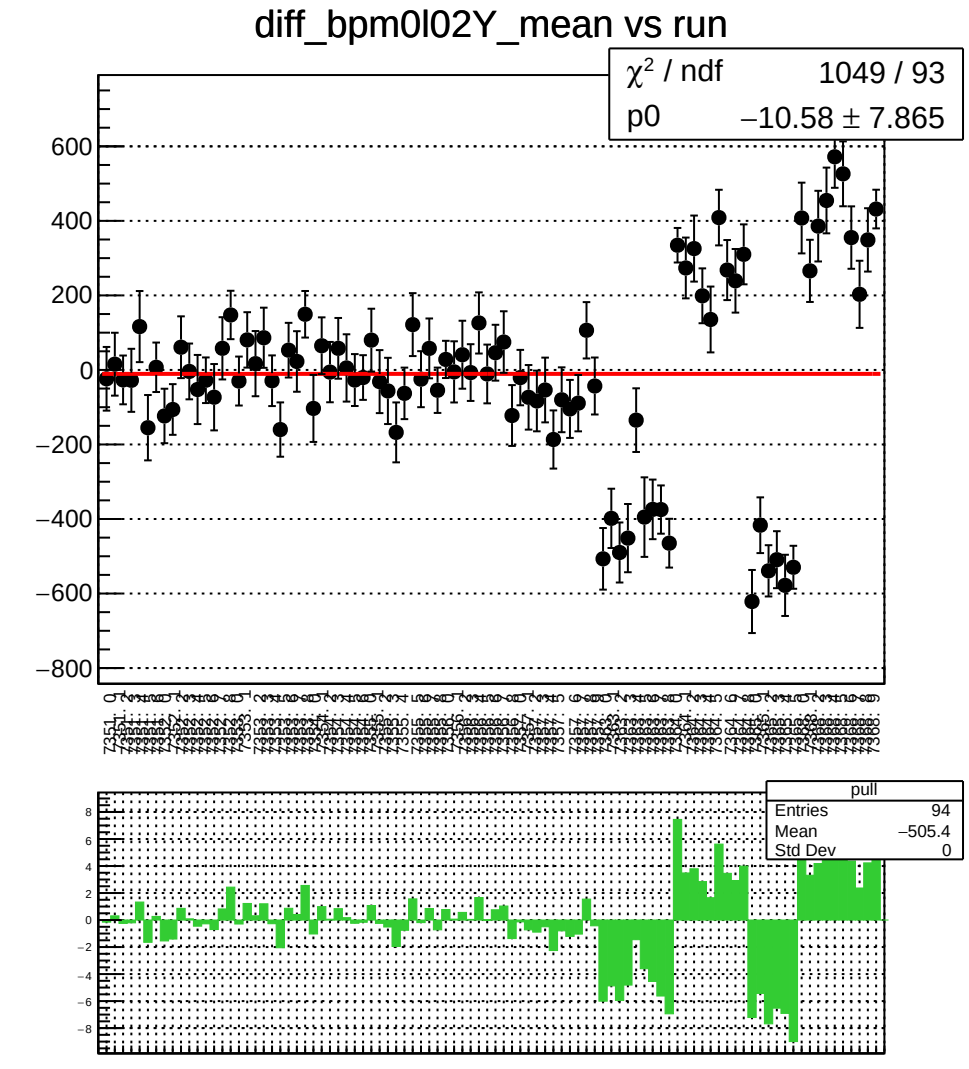

diff_bpm0l01Y_mean vs run
χ² / ndf 2.392e+04 / 93
p0 0.5715 ± 2.646
pull
Entries 94
Mean −936.1
Std Dev 0
pull1D
Entries 94
Mean −1.138
Std Dev 0.8283

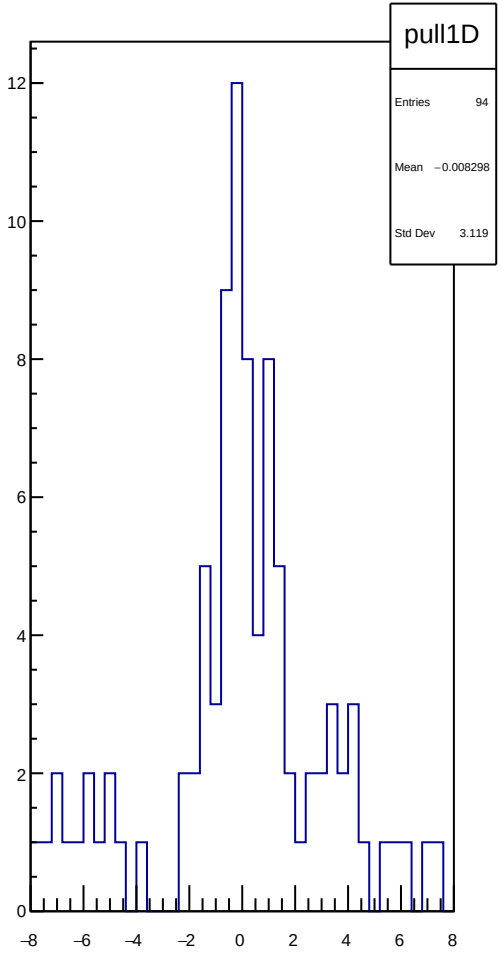

diff_bpm0l01Y_rms vs run
χ² / ndf 1.1e+04 / 93
p0 2516 ± 1.871
3800
3600
3400
3200
3000
2800
2600
2400
2200

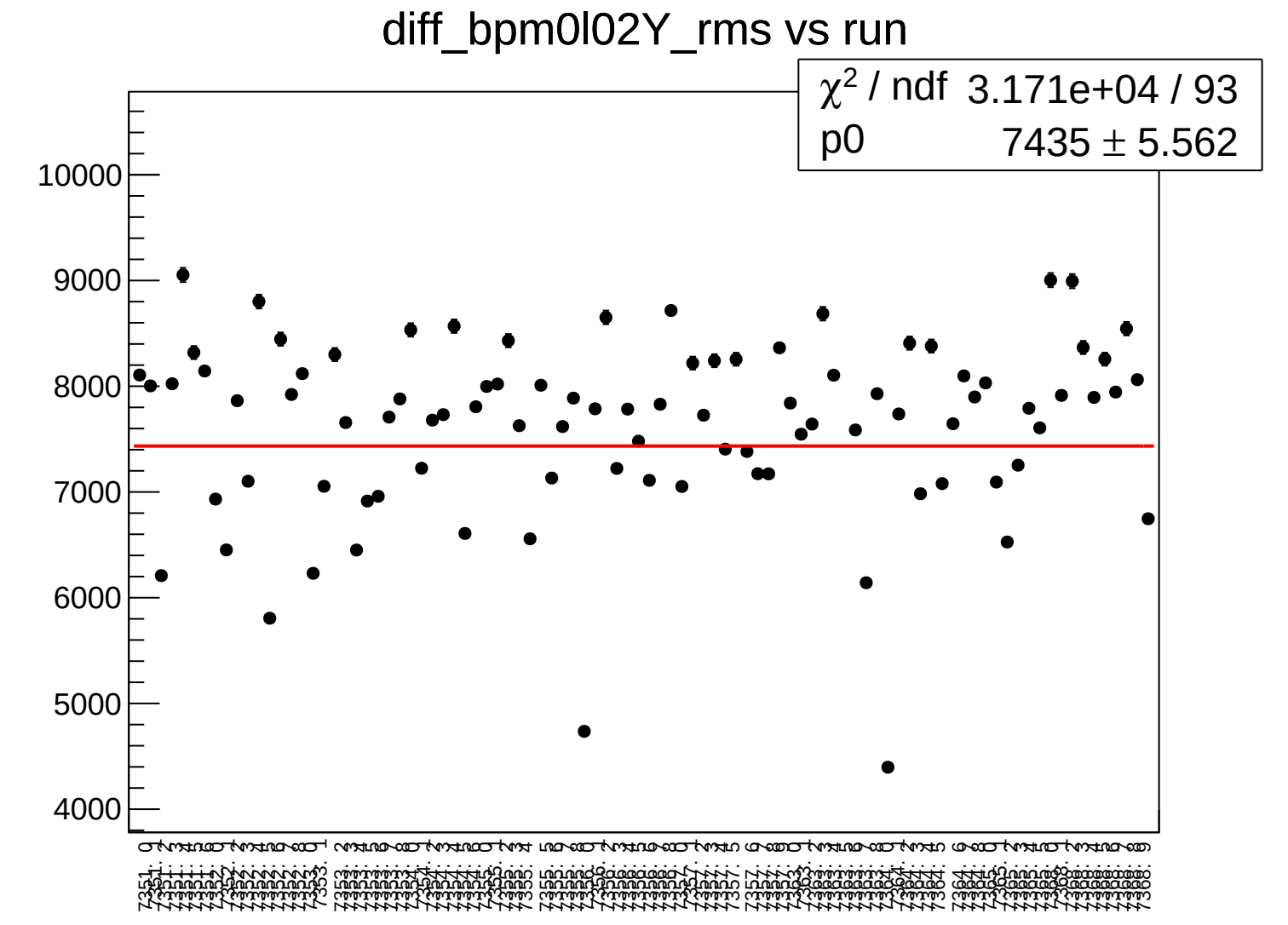

diff_bpm0l02X_mean vs run
χ² / ndf 2342 / 93
p0 26.5 ± 12.52
1500
1000
500
0
−500
−1000
−1500
pull
Entries 94
Mean −1775
Std Dev 0
10
5
0
−5
−10

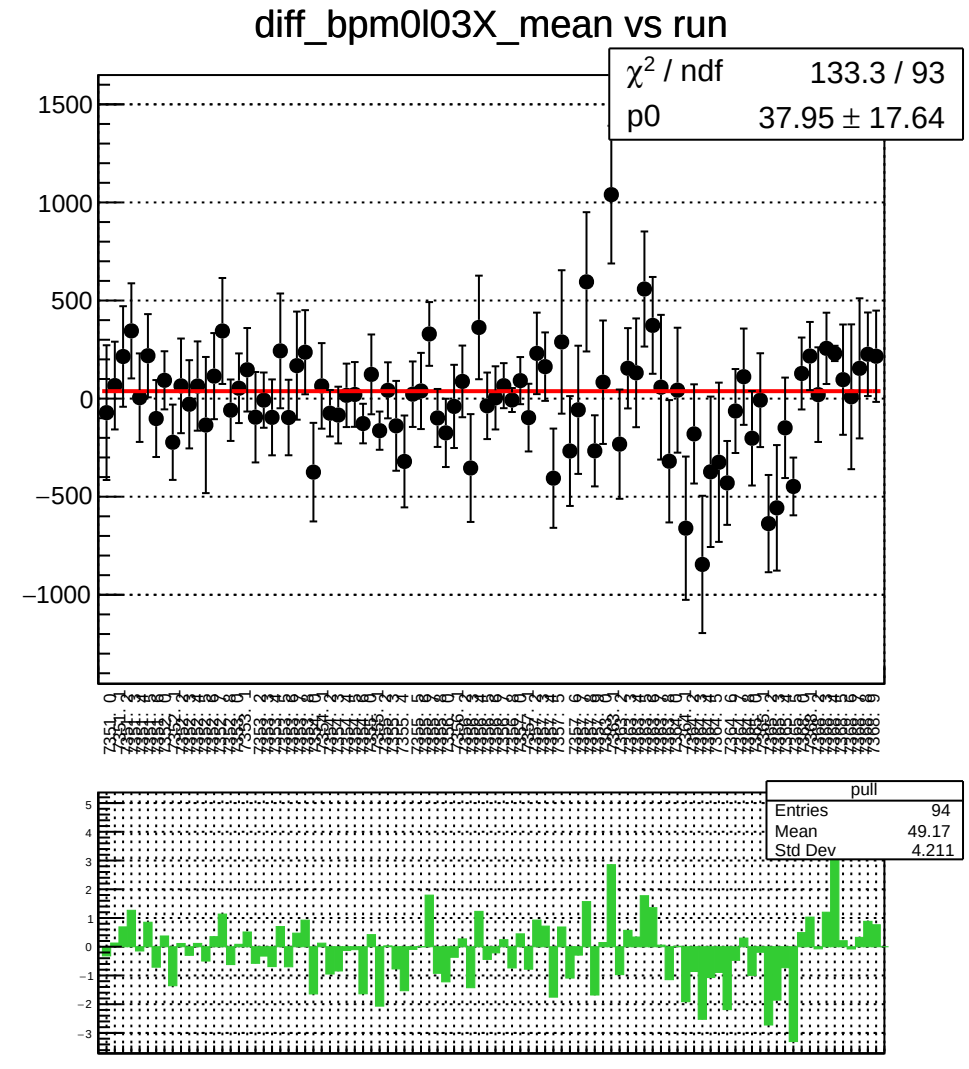

pull1D
Entries 94
Mean 0.1249
Std Dev 2.873
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

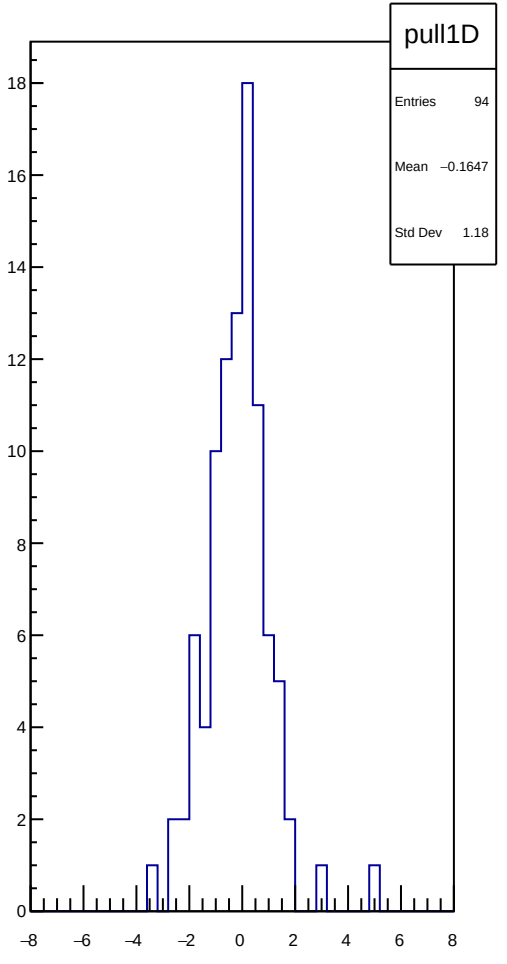

diff_bpm0l02X_rms vs run
χ² / ndf 672.4 / 93
p0 1.194e+04 ± 8.852
12600
12400
12200
12000
11800
11600
11400
11200

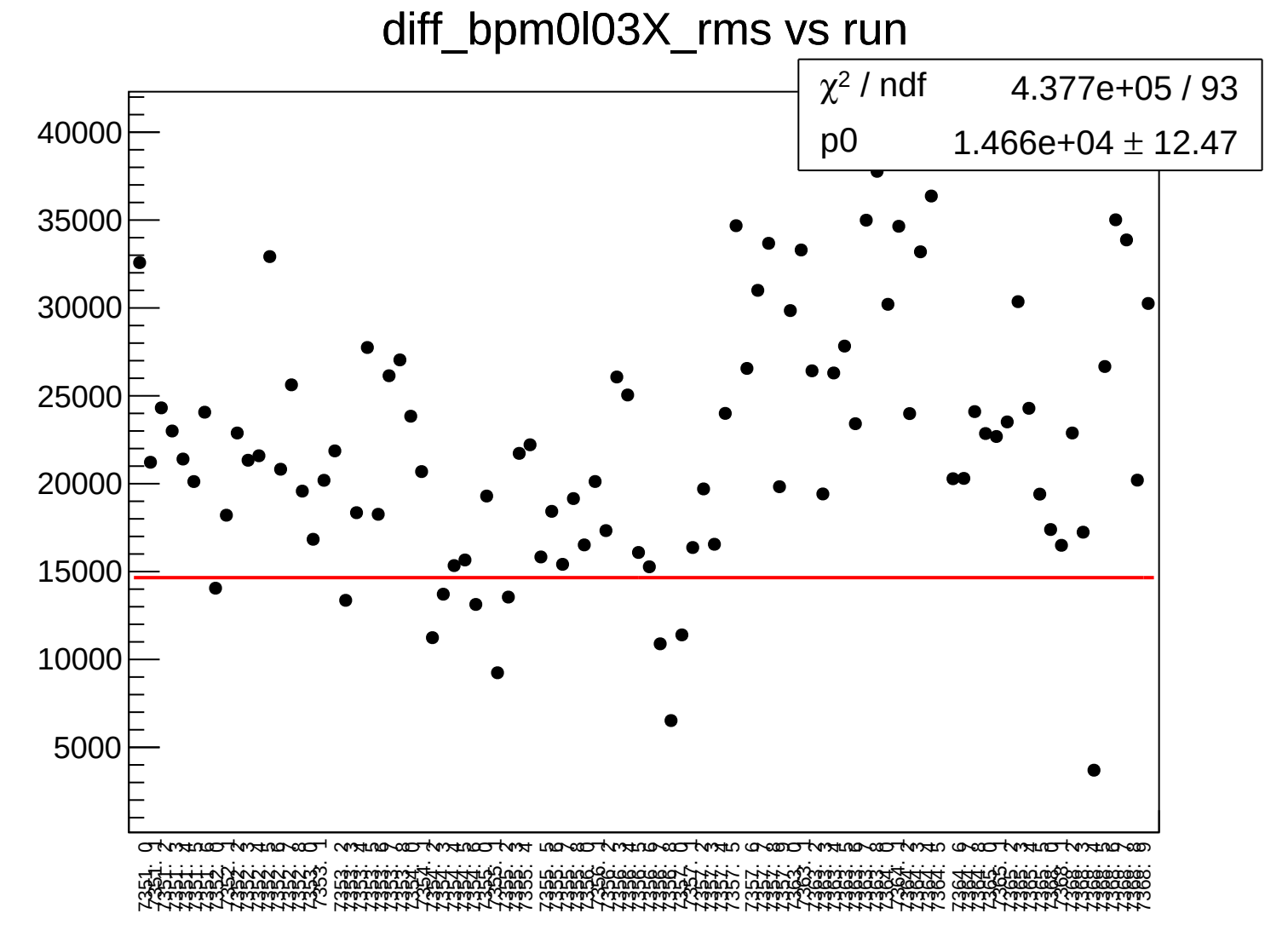

diff_bpm0l02Y_mean vs run
χ² / ndf 1049 / 93
p0 −10.58 ± 7.865
pull
Entries 94
Mean −505.4
Std Dev 0

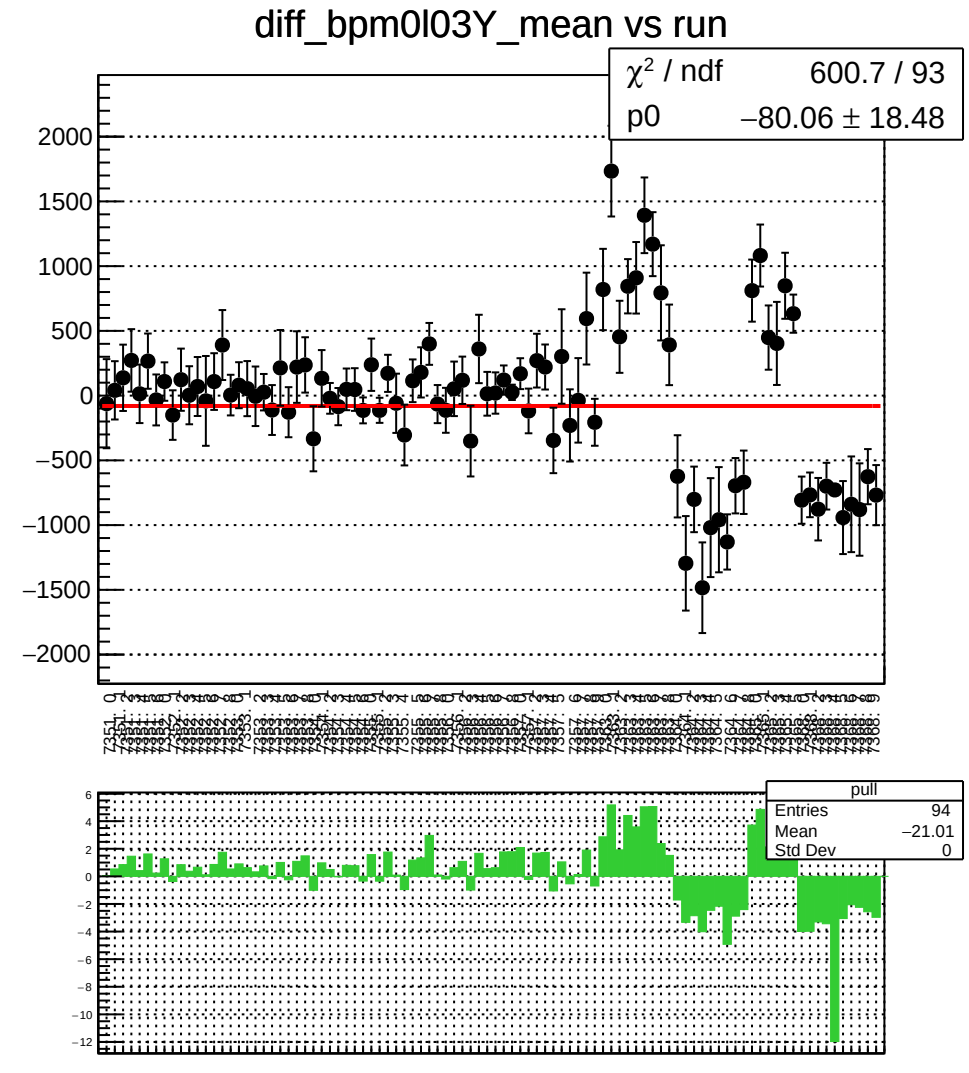

pull1D
Entries 94
Mean −0.008298
Std Dev 3.119

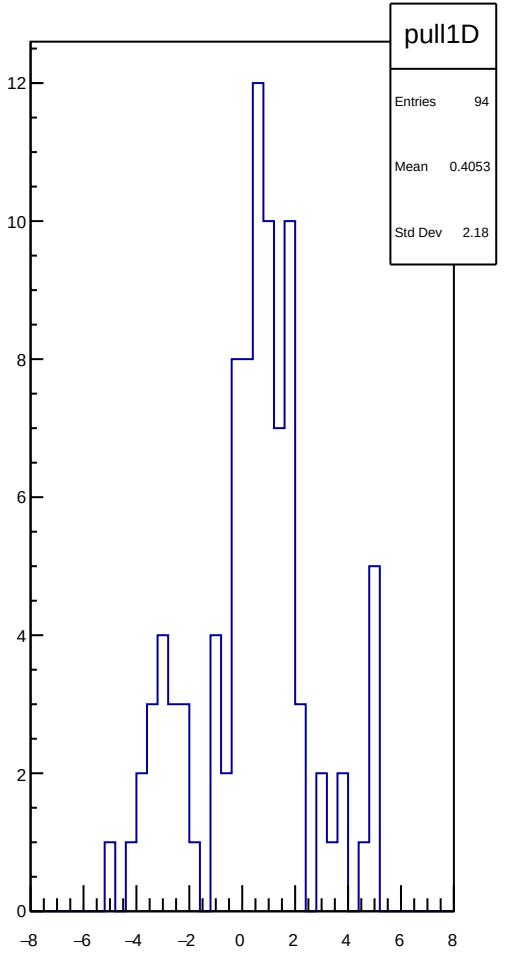

diff_bpm0l02Y_rms vs run
χ^2 / ndf 3.171e+04 / 93
p0 7435 ± 5.562
10000
9000
8000
7000
6000
5000
4000

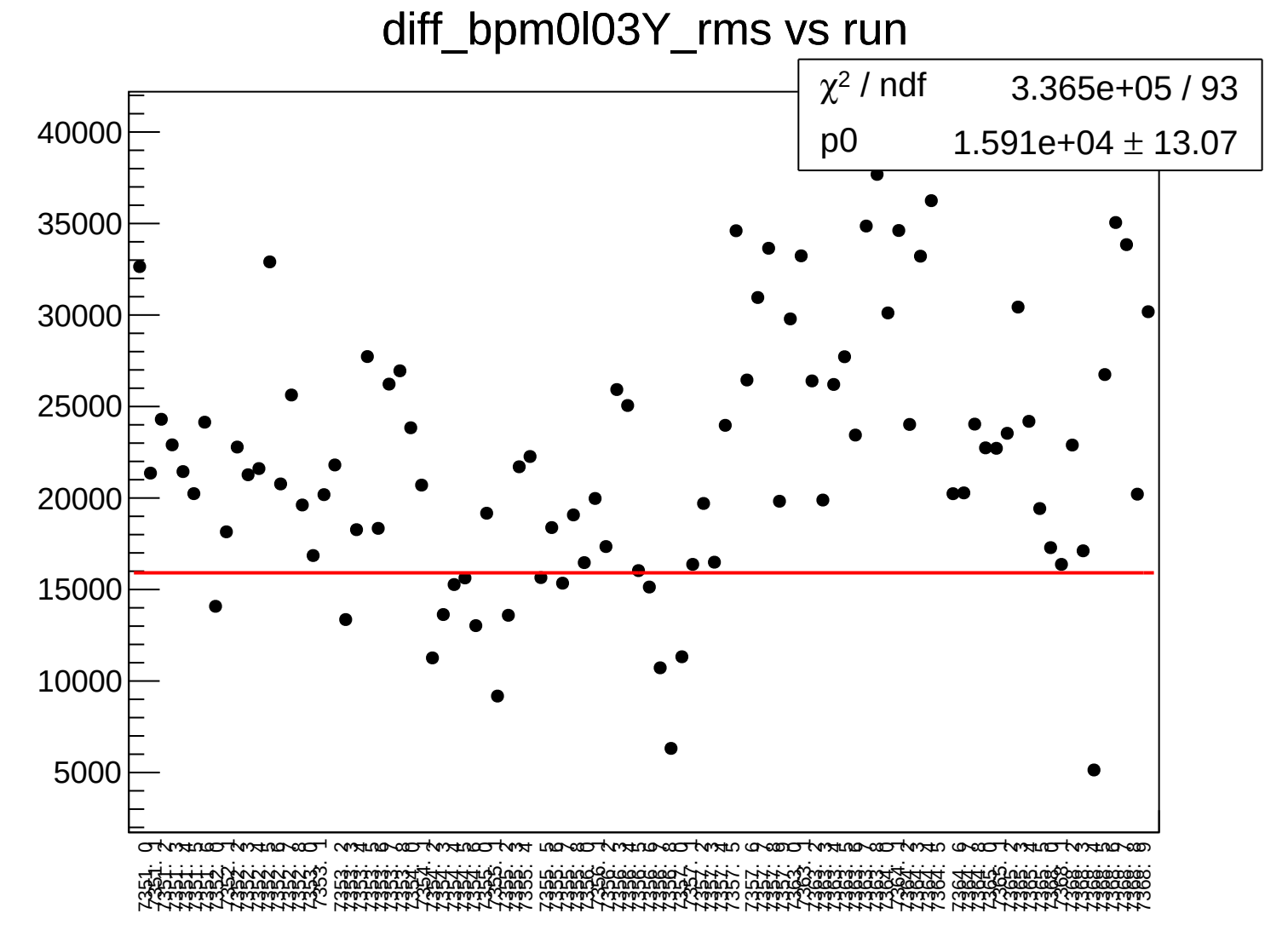

diff_bpm0l03X_mean vs run
χ^2 / ndf 133.3 / 93
p0 37.95 ± 17.64
1500
1000
500
0
−500
−1000
pull
Entries 94
Mean 49.17
Std Dev 4.211
5
4
3
2
1
0
−1
−2
−3

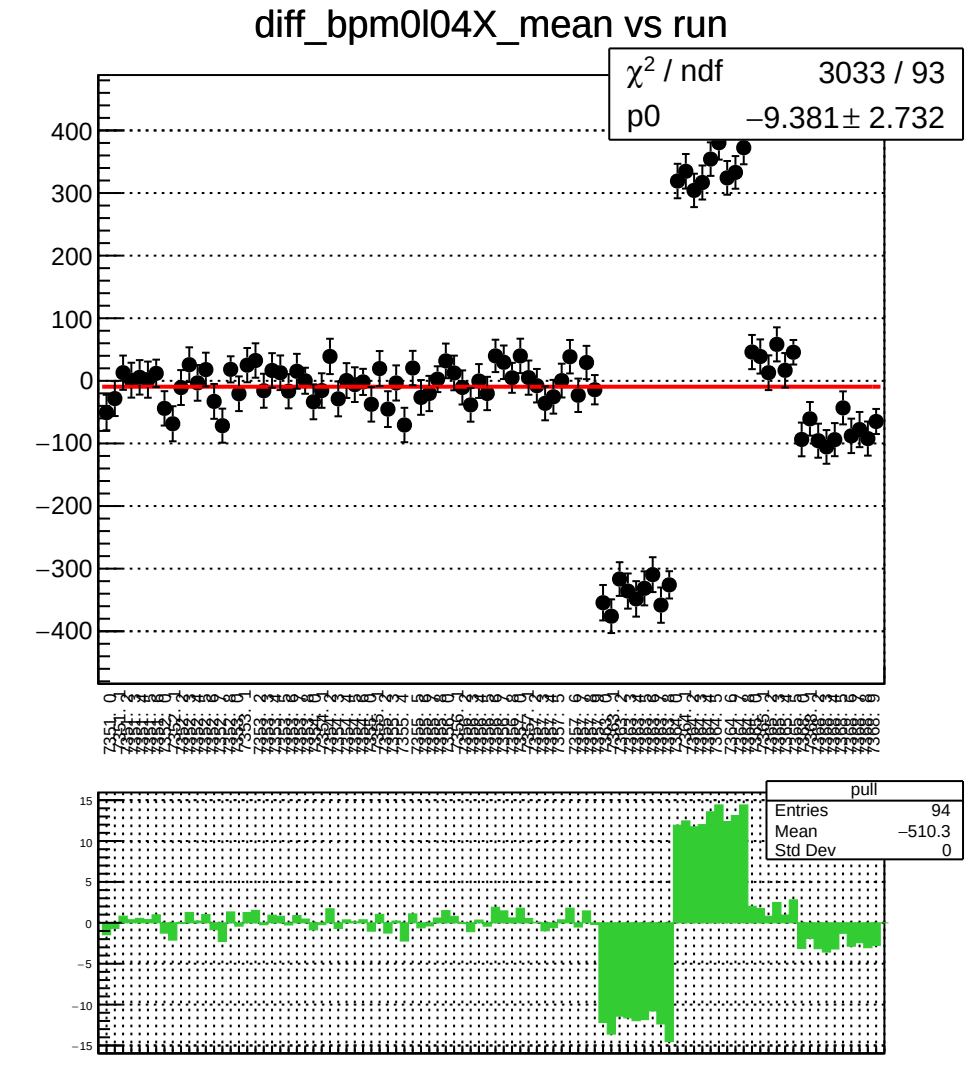

pull1D
Entries 94
Mean −0.1647
Std Dev 1.18
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

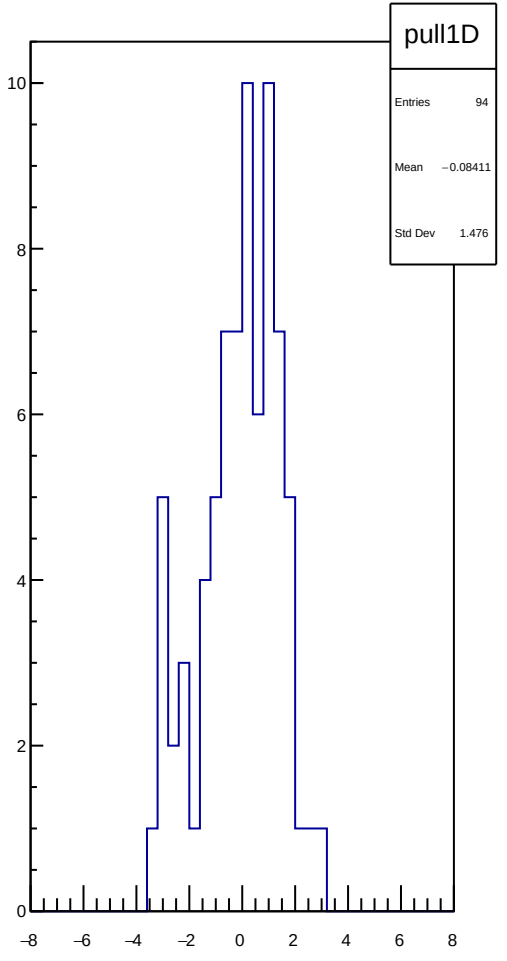

diff_bpm0l03X_rms vs run
χ² / ndf 4.377e+05 / 93
p0 1.466e+04 ± 12.47
40000
35000
30000
25000
20000
15000
10000
5000

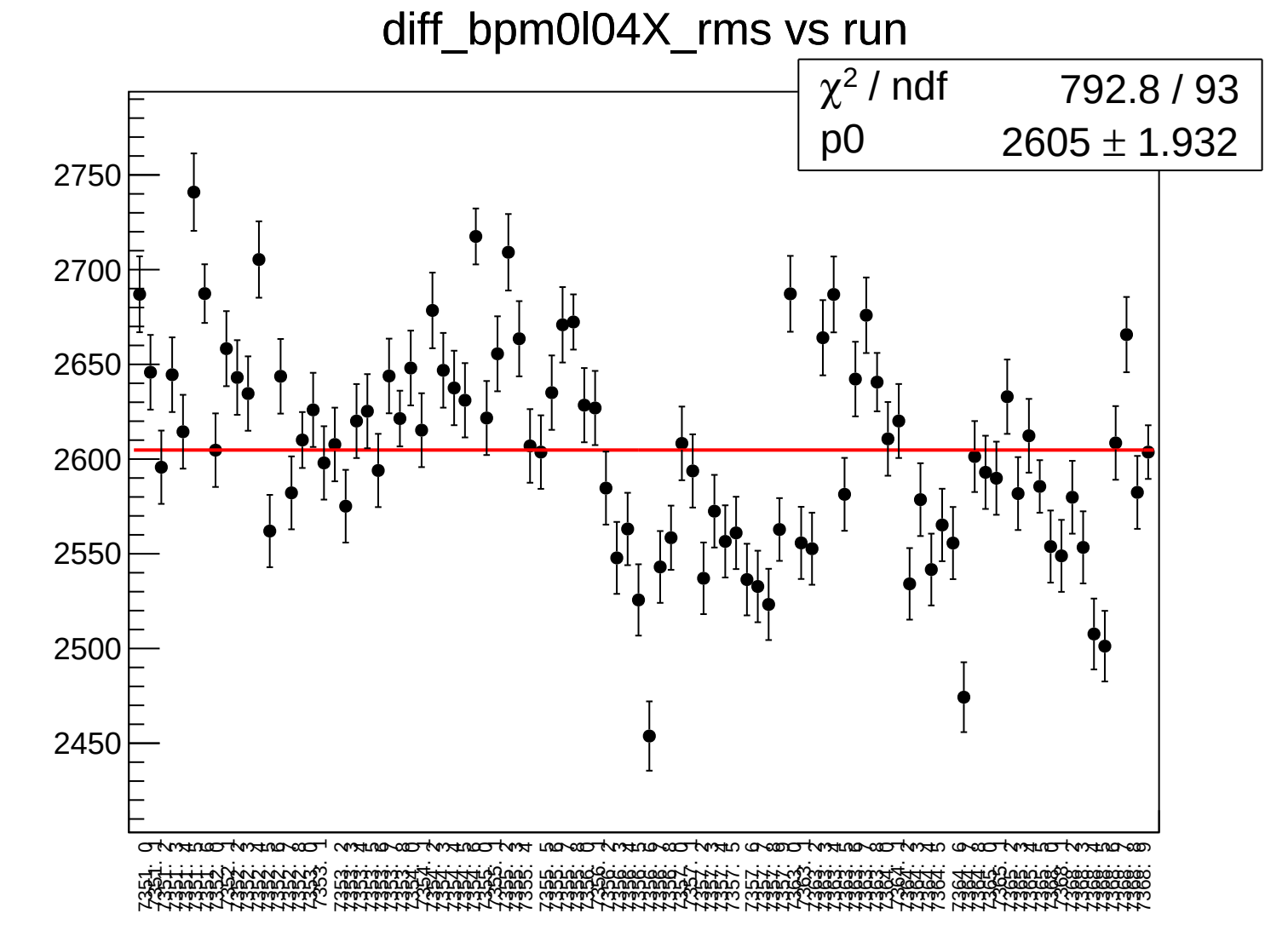

diff_bpm0l03Y_mean vs run
χ² / ndf 600.7 / 93
p0 −80.06 ± 18.48
pull
Entries 94
Mean −21.01
Std Dev 0

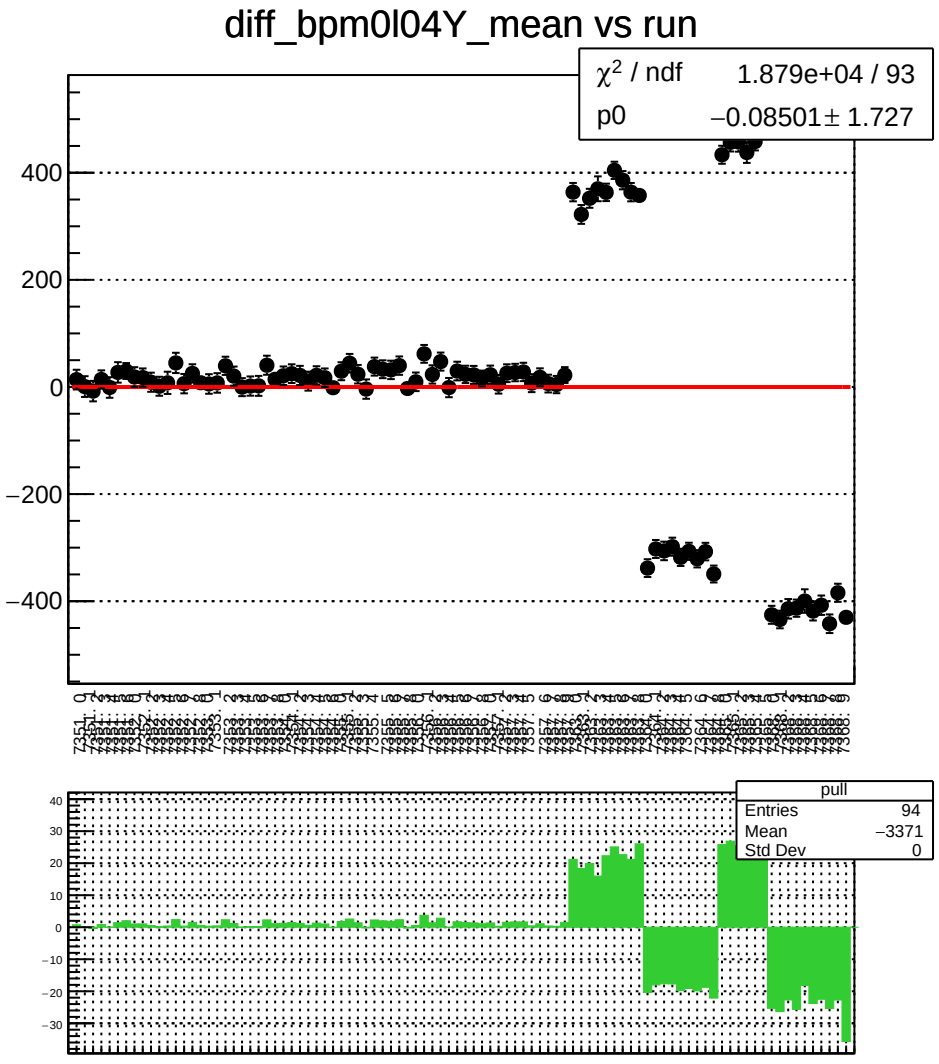

pull1D
Entries 94
Mean 0.4053
Std Dev 2.18

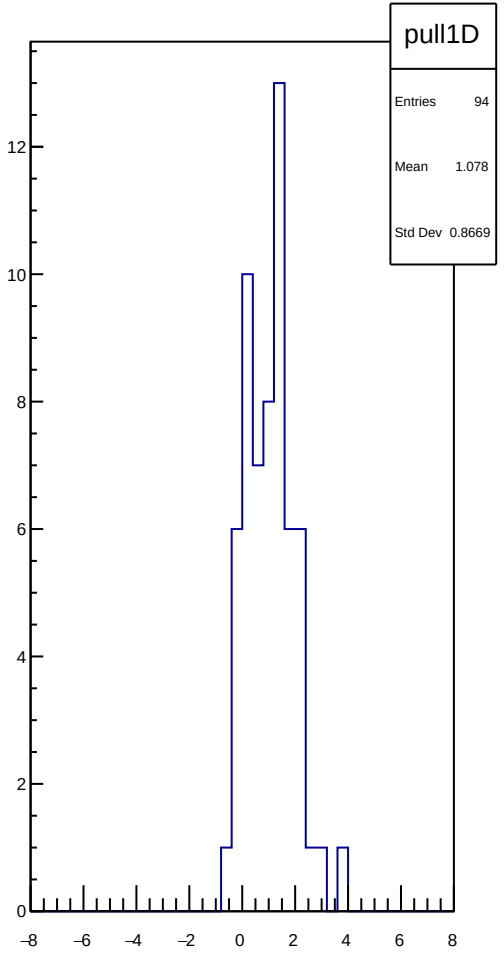

diff_bpm0l03Y_rms vs run
χ² / ndf 3.365e+05 / 93
p0 1.591e+04 ± 13.07
40000
35000
30000
25000
20000
15000
10000
5000

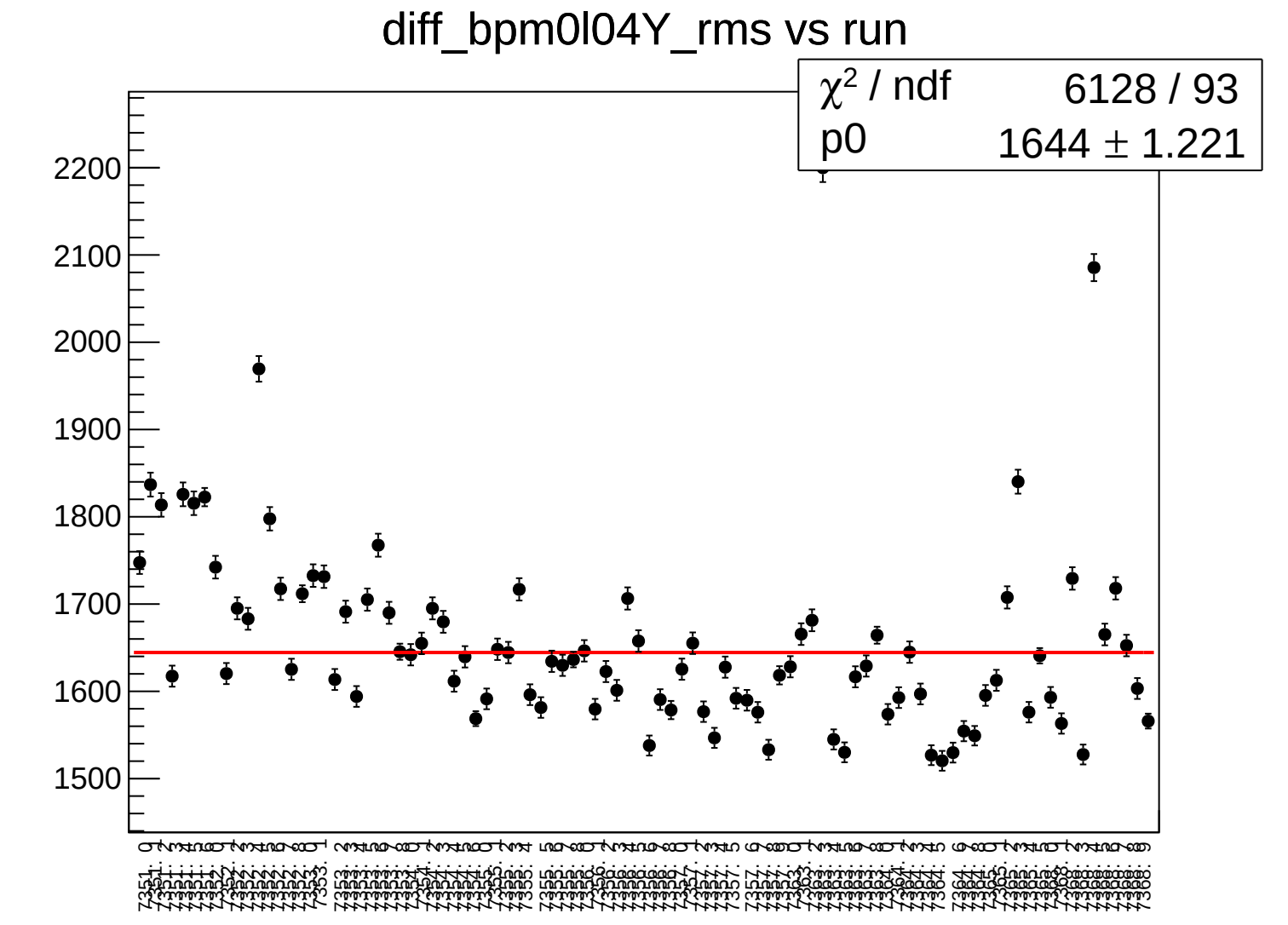

diff_bpm0l04X_mean vs run
χ² / ndf 3033 / 93
p0 −9.381 ± 2.732
pull
Entries 94
Mean −510.3
Std Dev 0

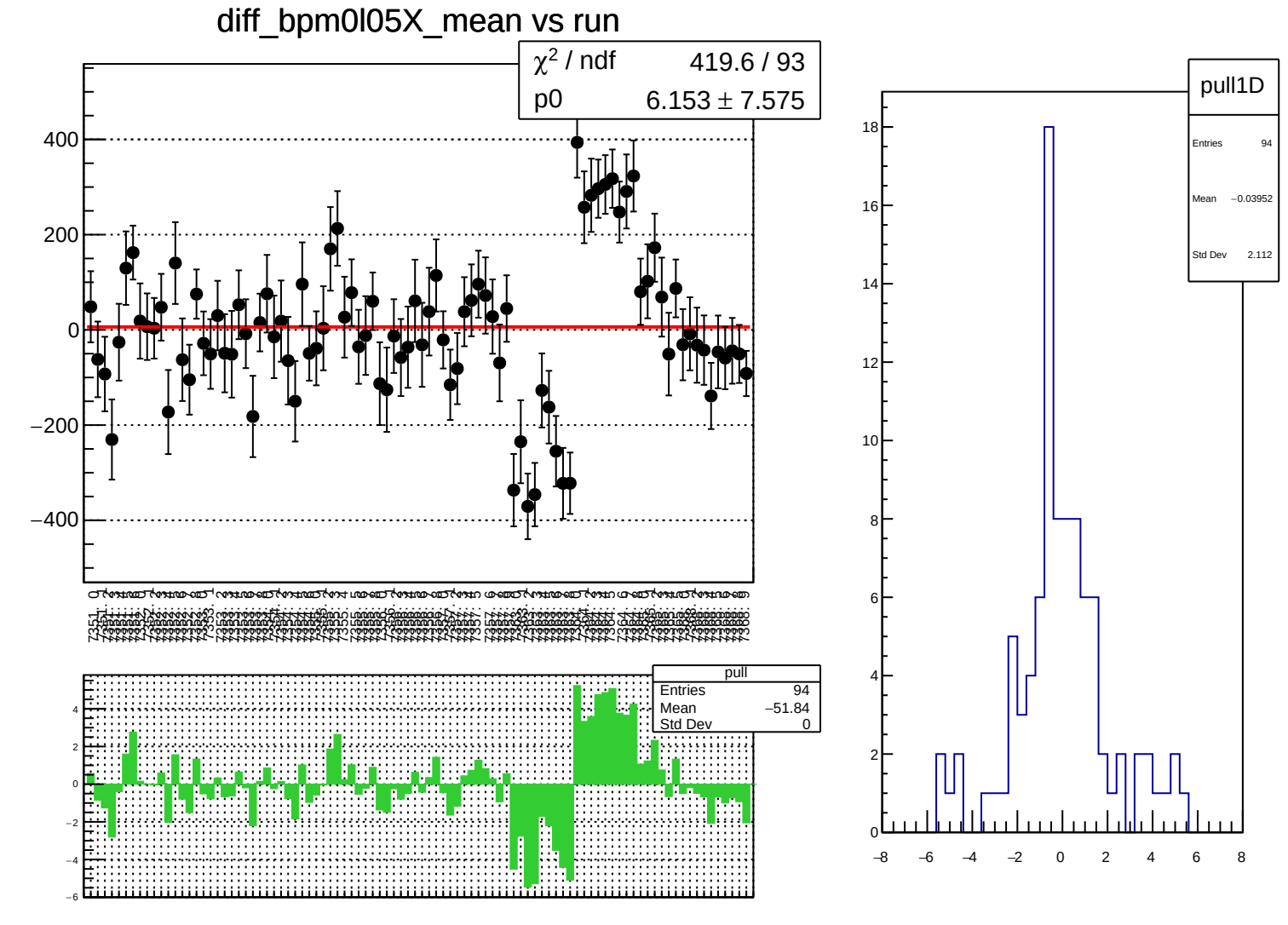

pull1D
Entries 94
Mean −0.08411
Std Dev 1.476

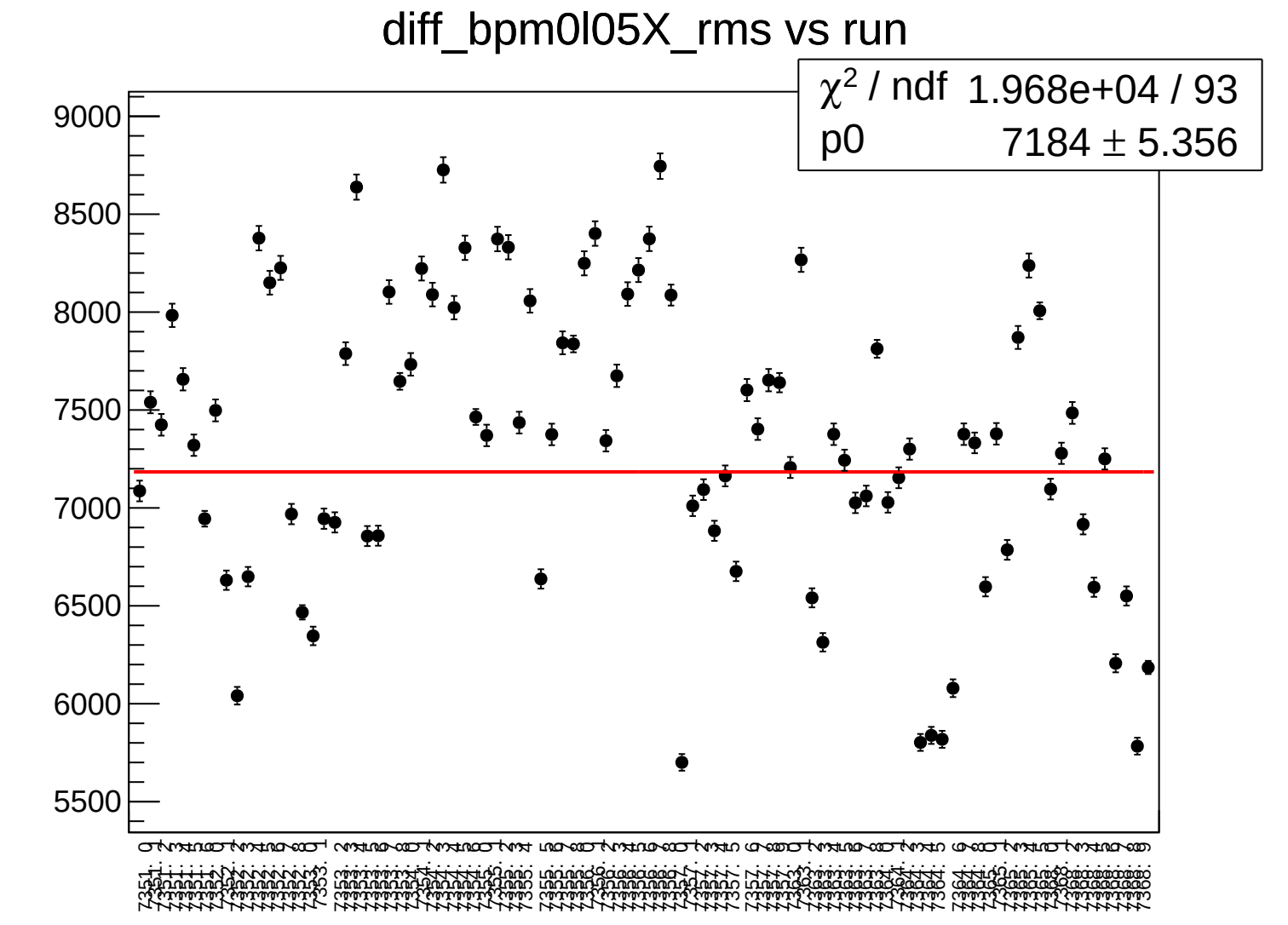

diff_bpm0l04X_rms vs run
χ² / ndf 792.8 / 93
p0 2605 ± 1.932
2750
2700
2650
2600
2550
2500
2450

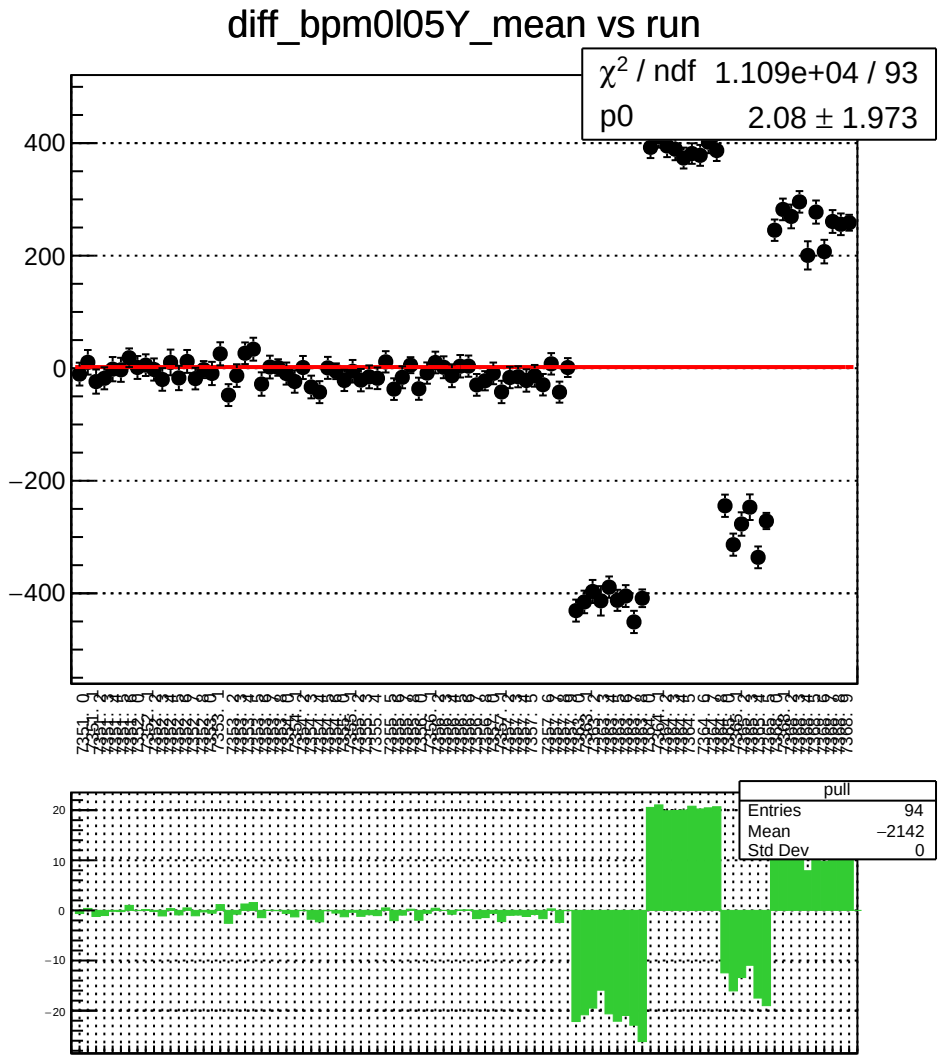

diff_bpm0l04Y_mean vs run
χ² / ndf 1.879e+04 / 93
p0 −0.08501 ± 1.727
400
200
0
−200
−400
pull
Entries 94
Mean −3371
Std Dev 0
40
30
20
10
0
−10
−20
−30

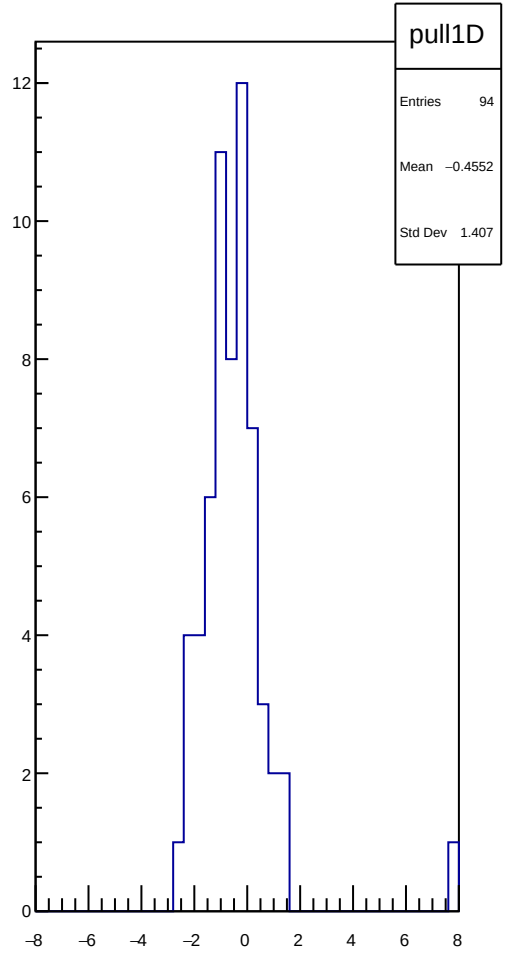

pull1D
Entries 94
Mean 1.078
Std Dev 0.8669
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

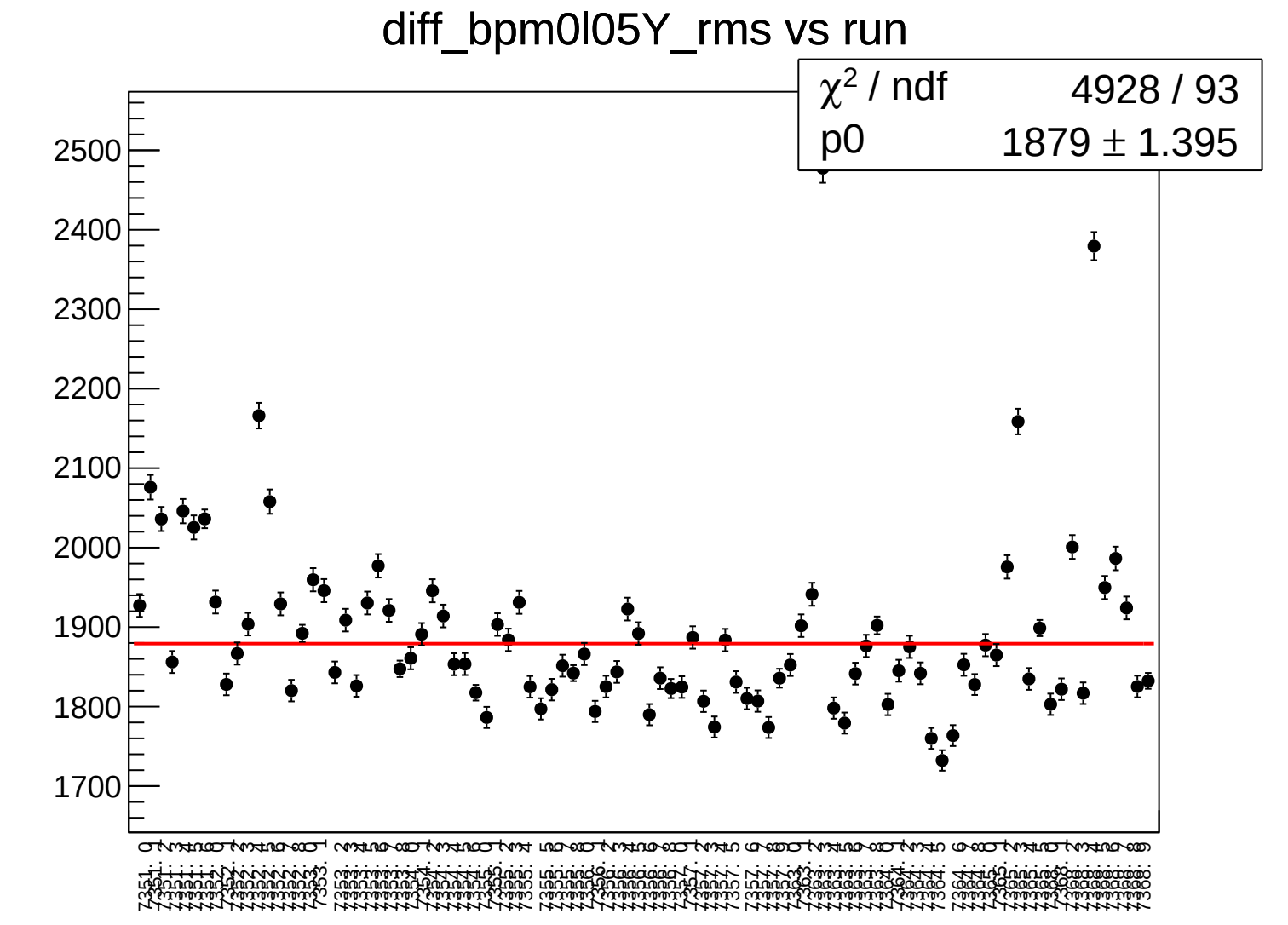

diff_bpm0l04Y_rms vs run
χ² / ndf 6128 / 93
p0 1644 ± 1.221
2200
2100
2000
1900
1800
1700
1600
1500

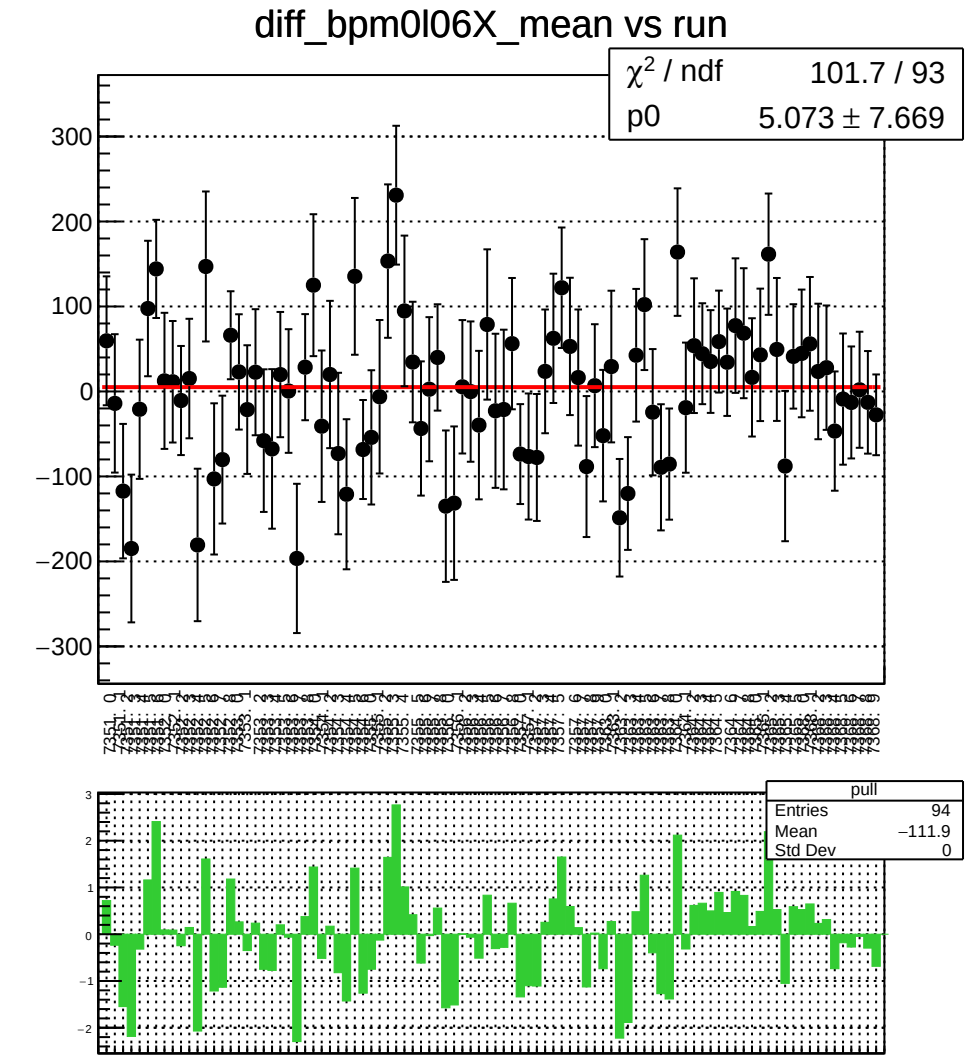

diff_bpm0l05X_mean vs run
χ² / ndf 419.6 / 93
p0 6.153 ± 7.575
400
200
0
−200
−400
pull
Entries 94
Mean −51.84
Std Dev 0
4
2
0
−2
−4
−6
pull1D
Entries 94
Mean −0.03952
Std Dev 2.112
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

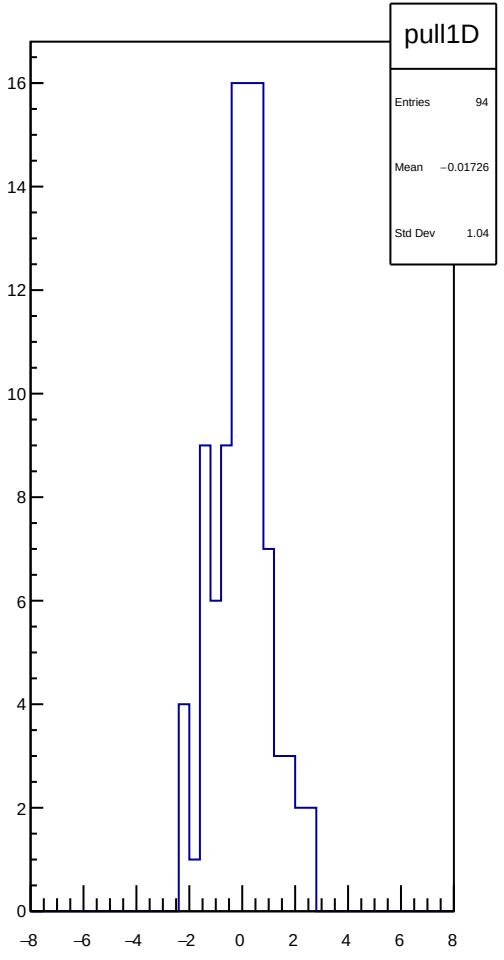

diff_bpm0l05X_rms vs run
χ^2 / ndf 1.968e+04 / 93
p0 7184 ± 5.356
9000
8500
8000
7500
7000
6500
6000
5500

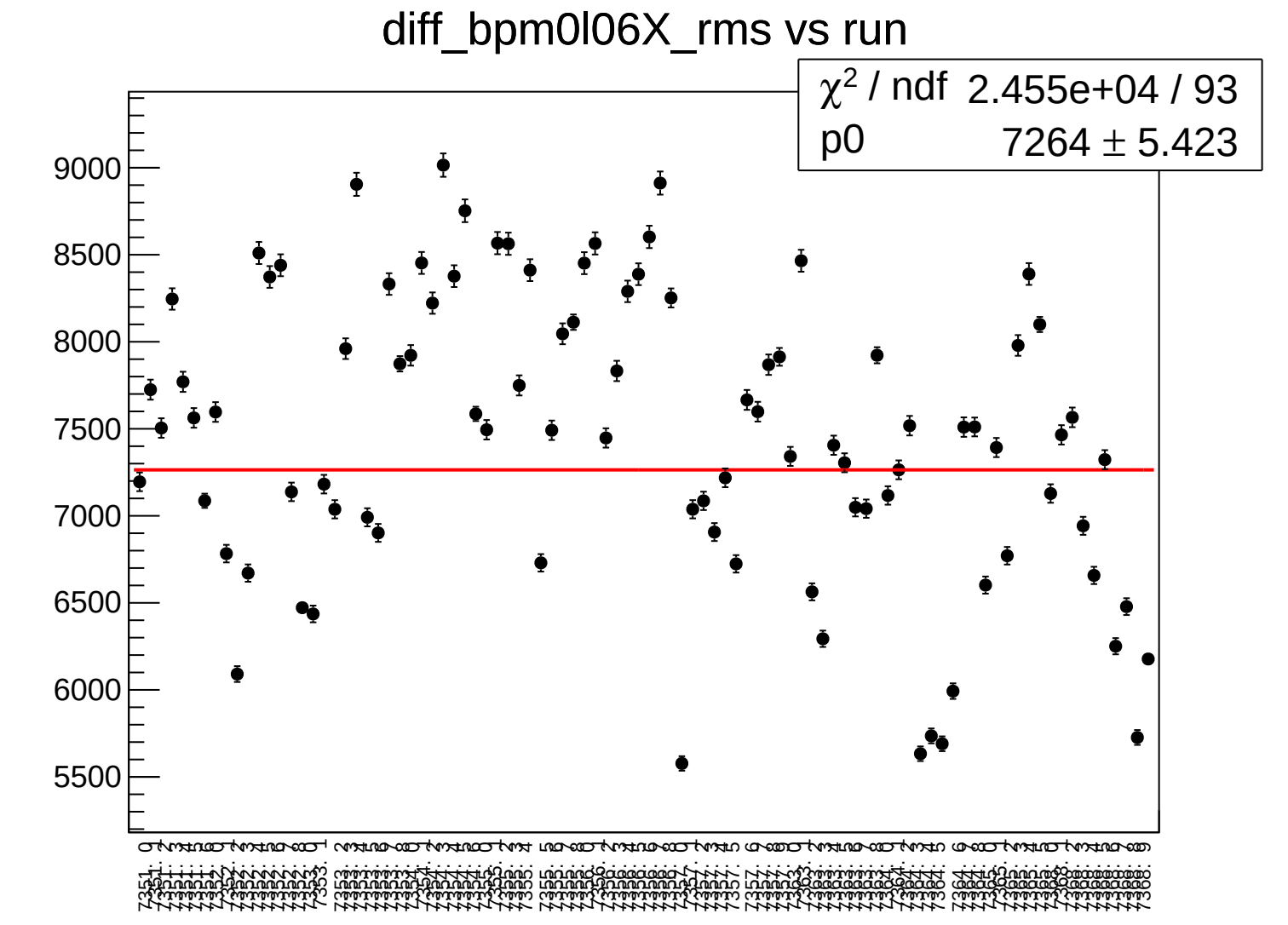

diff_bpm0l05Y_mean vs run
χ² / ndf 1.109e+04 / 93
p0 2.08 ± 1.973
400
200
0
−200
−400
pull
Entries 94
Mean −2142
Std Dev 0
20
10
0
−10
−20

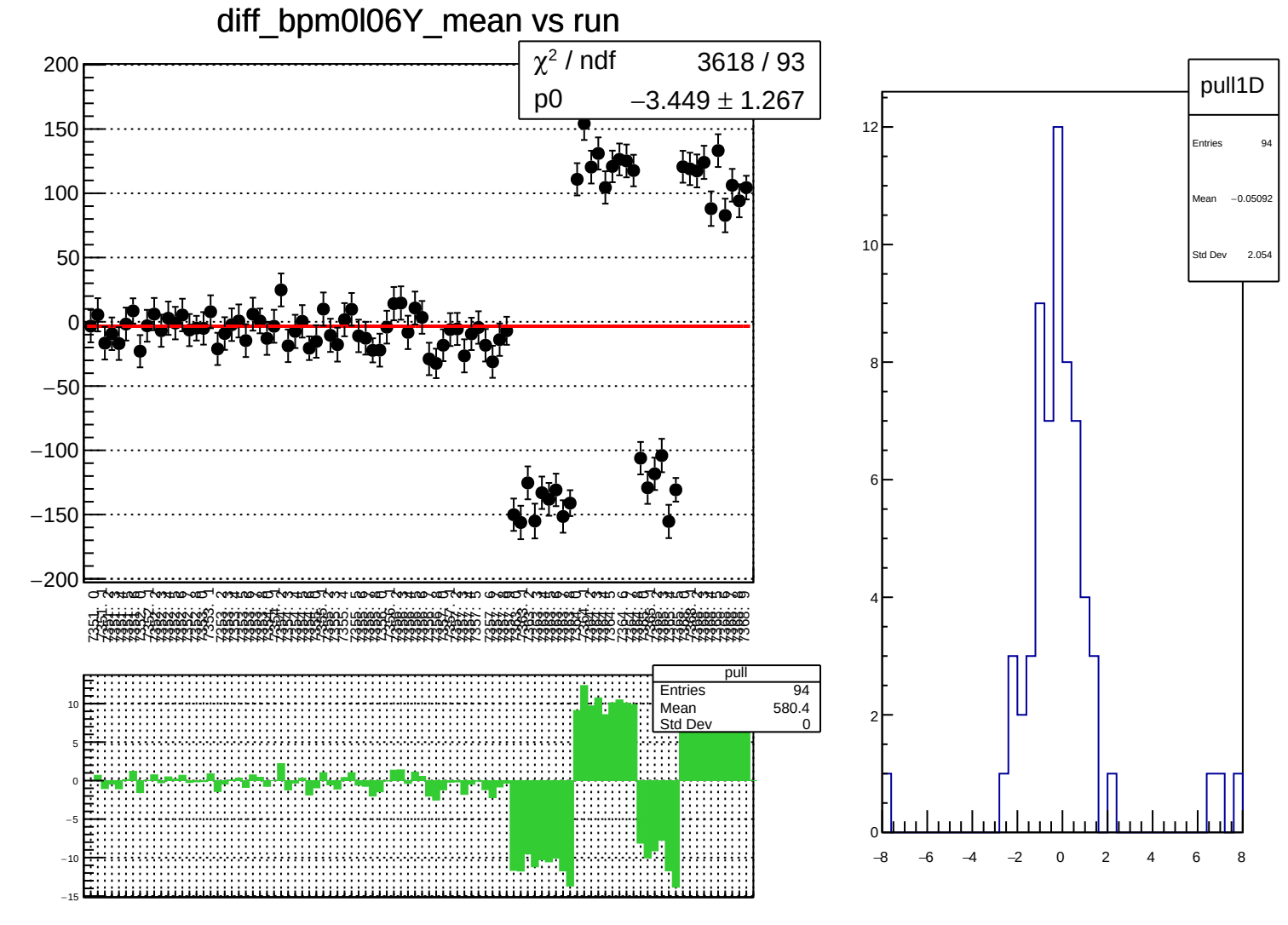

pull1D
Entries 94
Mean −0.4552
Std Dev 1.407
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

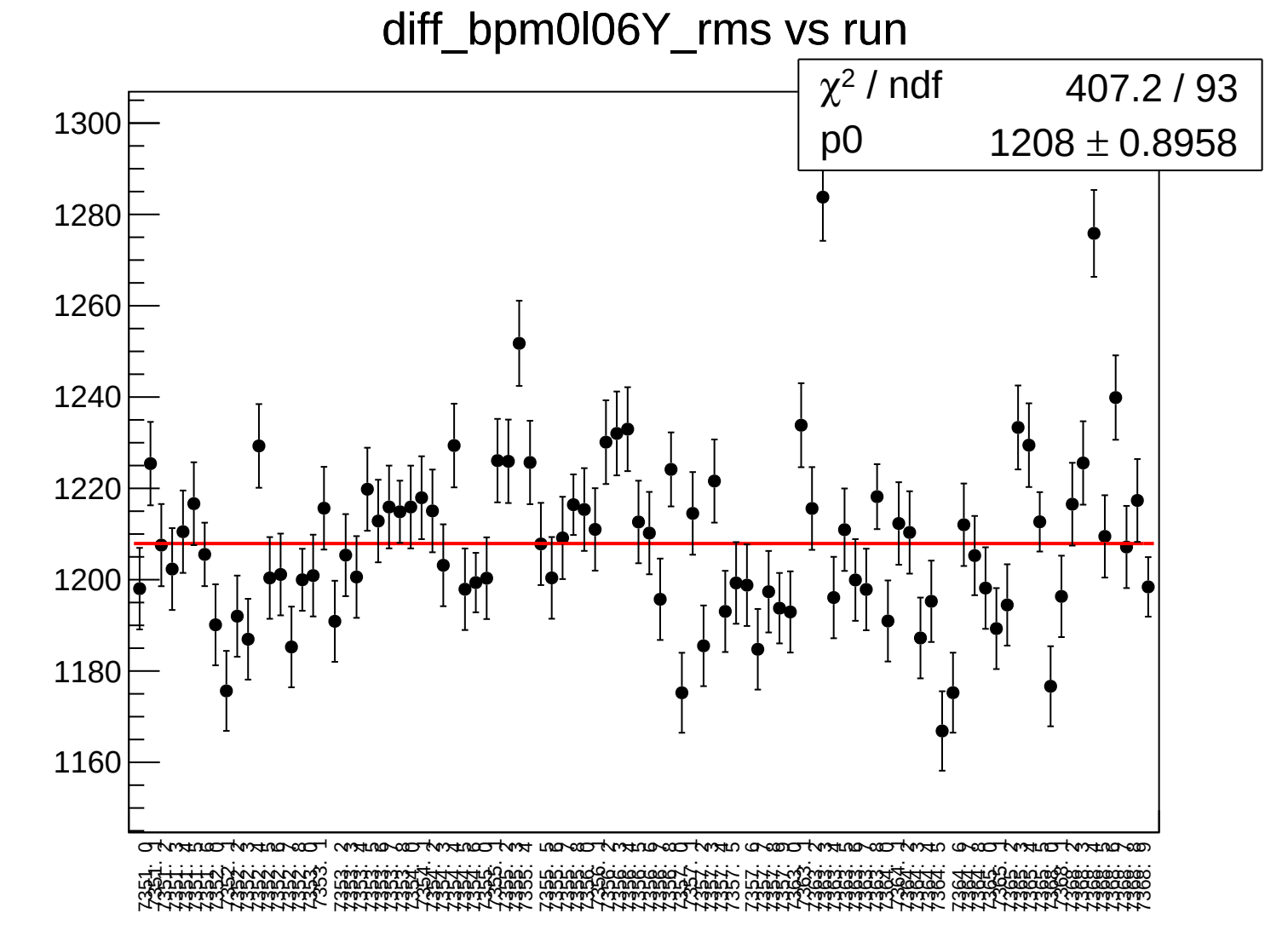

diff_bpm0l05Y_rms vs run
χ² / ndf 4928 / 93
p0 1879 ± 1.395
2500
2400
2300
2200
2100
2000
1900
1800
1700

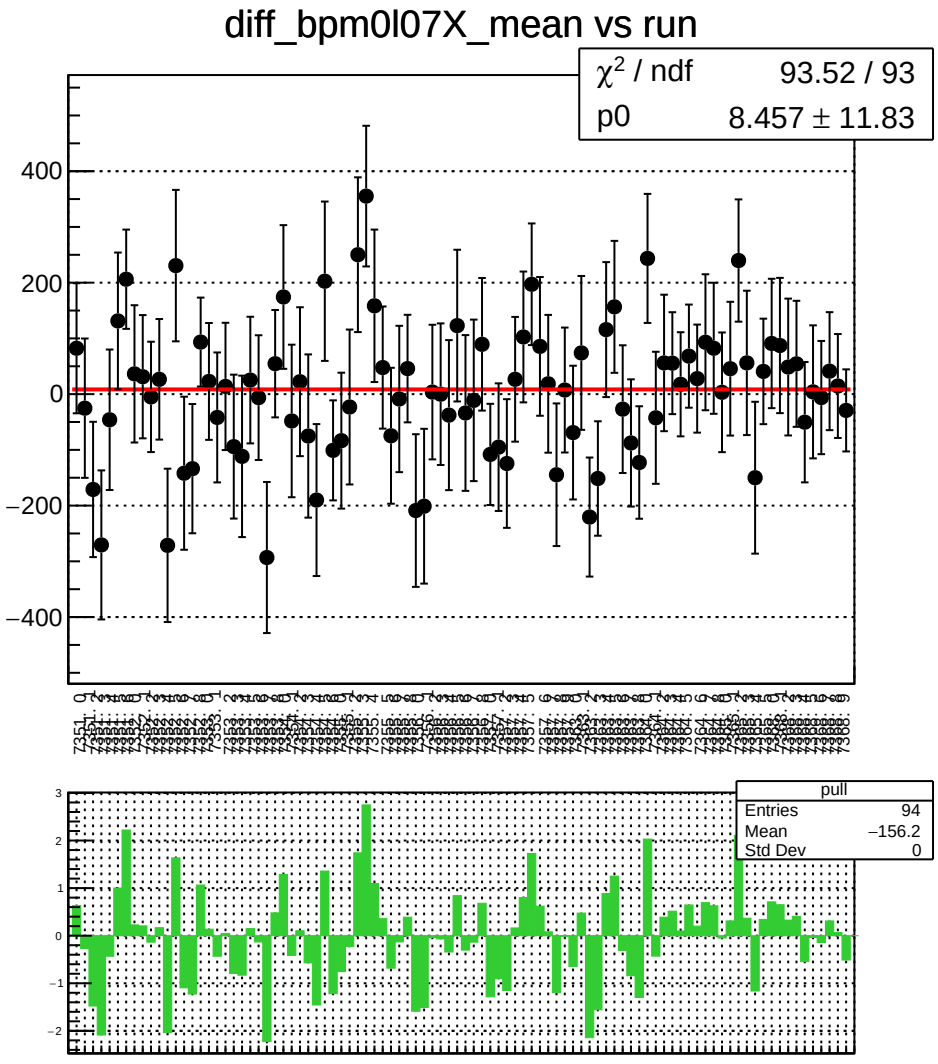

diff_bpm0l06X_mean vs run
χ² / ndf 101.7 / 93
p0 5.073 ± 7.669
300
200
100
0
−100
−200
−300
pull
Entries 94
Mean −111.9
Std Dev 0
3
2
1
0
−1
−2

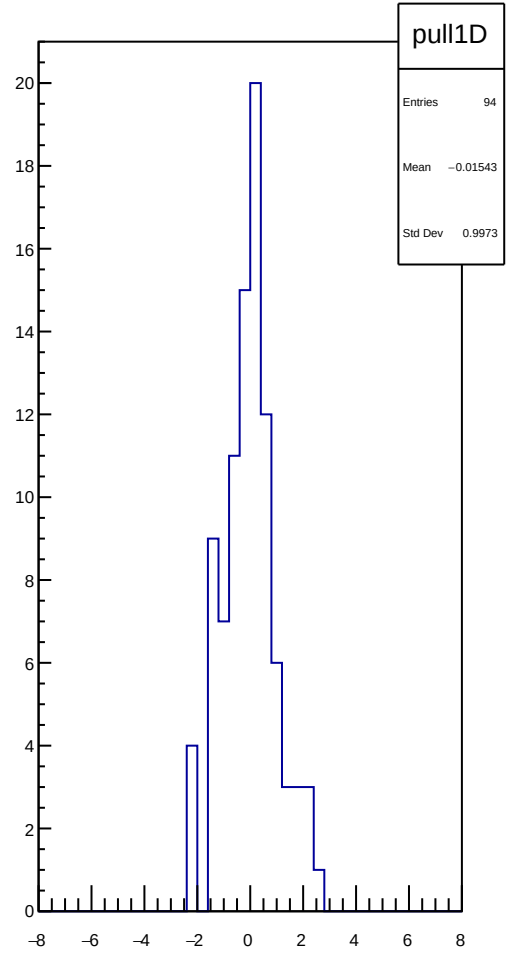

pull1D
Entries 94
Mean −0.01726
Std Dev 1.04
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

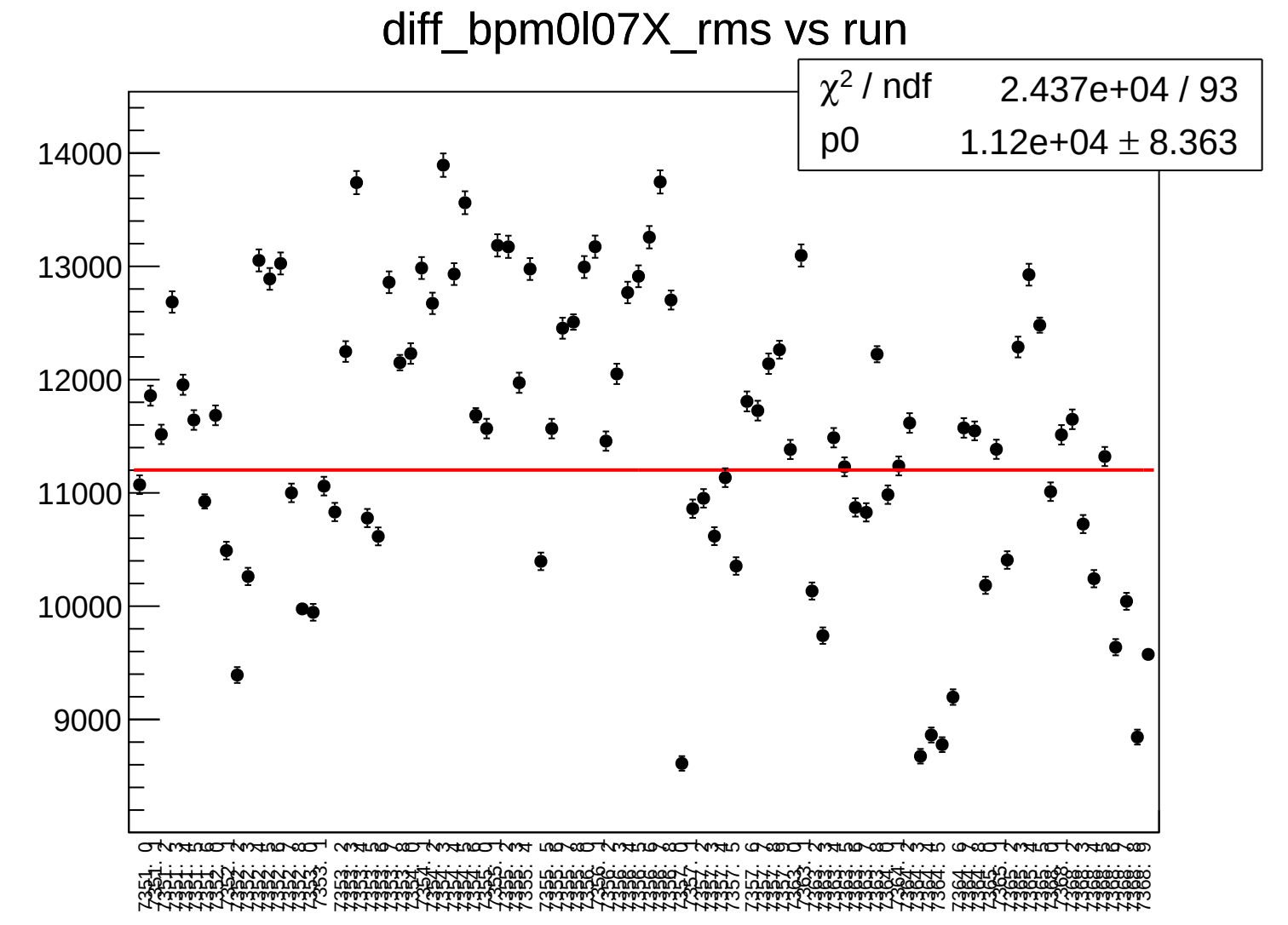

diff_bpm0l06X_rms vs run
χ^2 / ndf 2.455e+04 / 93
p0 7264 ± 5.423
9000
8500
8000
7500
7000
6500
6000
5500

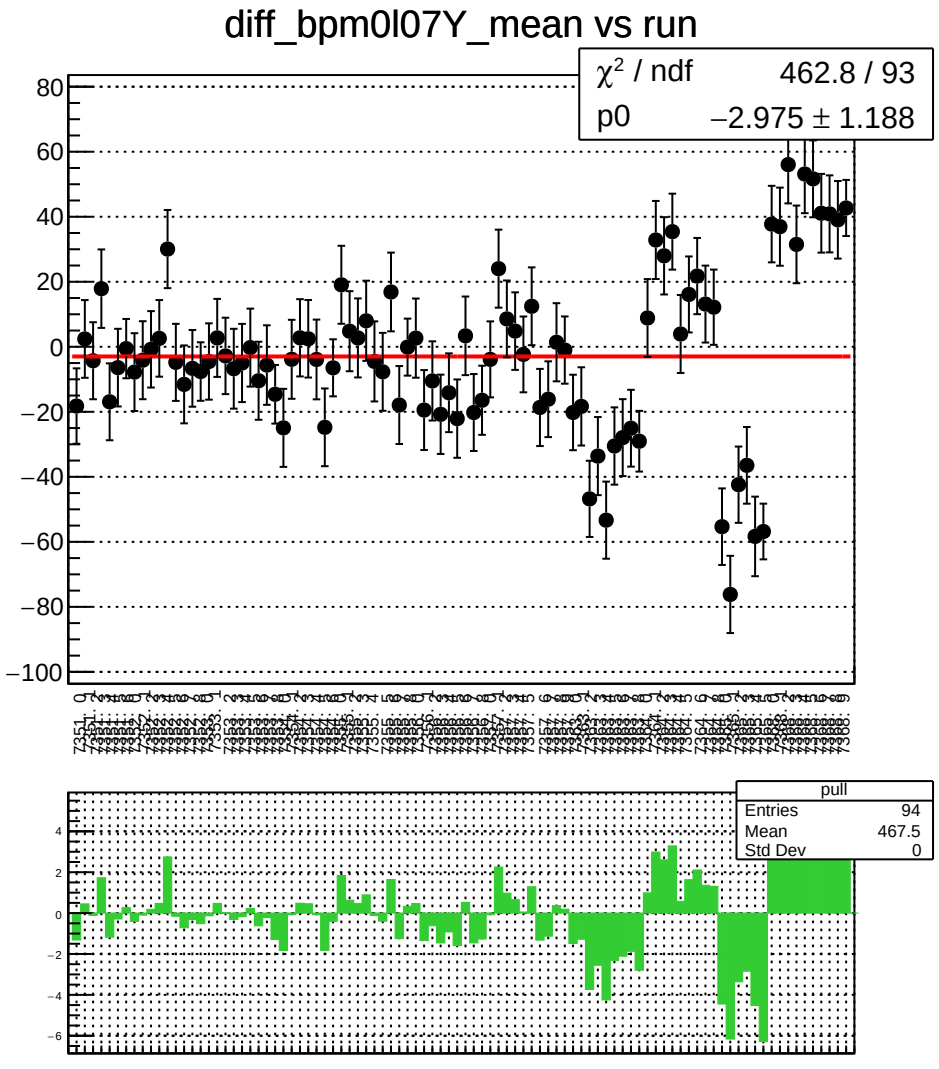

diff_bpm0l06Y_mean vs run
χ² / ndf 3618 / 93
p0 −3.449 ± 1.267
pull
Entries 94
Mean 580.4
Std Dev 0
pull1D
Entries 94
Mean −0.05092
Std Dev 2.054

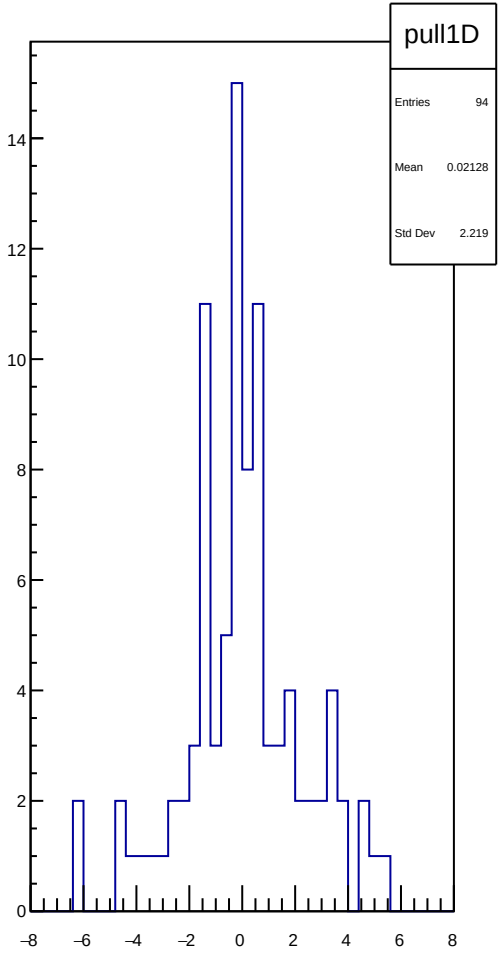

diff_bpm0l06Y_rms vs run
χ² / ndf 407.2 / 93
p0 1208 ± 0.8958
1300
1280
1260
1240
1220
1200
1180
1160

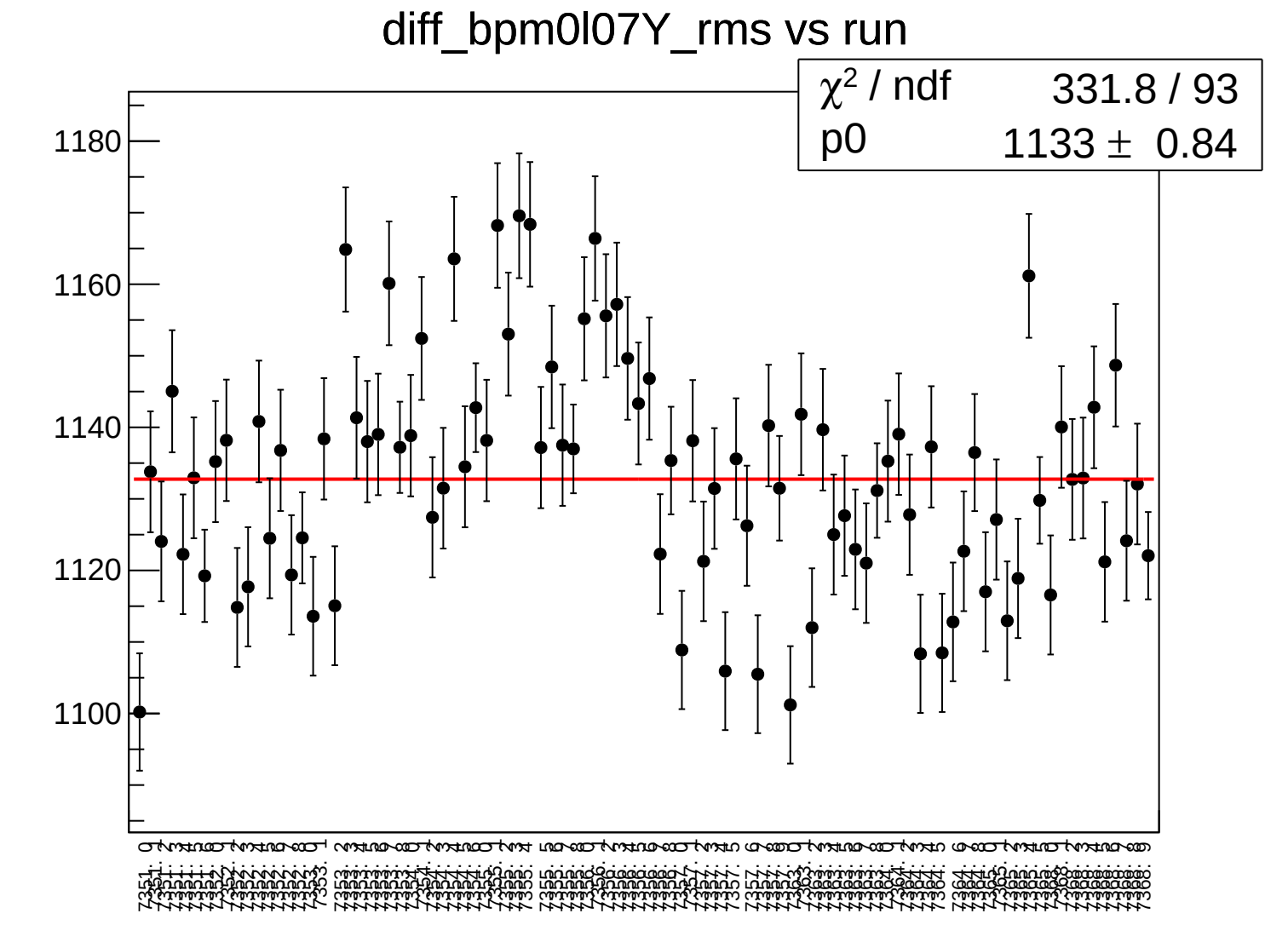

diff_bpm0l07X_mean vs run
χ^2 / ndf 93.52 / 93
p0 8.457 ± 11.83
400
200
0
−200
−400
pull
Entries 94
Mean −156.2
Std Dev 0
3
2
1
0
−1
−2

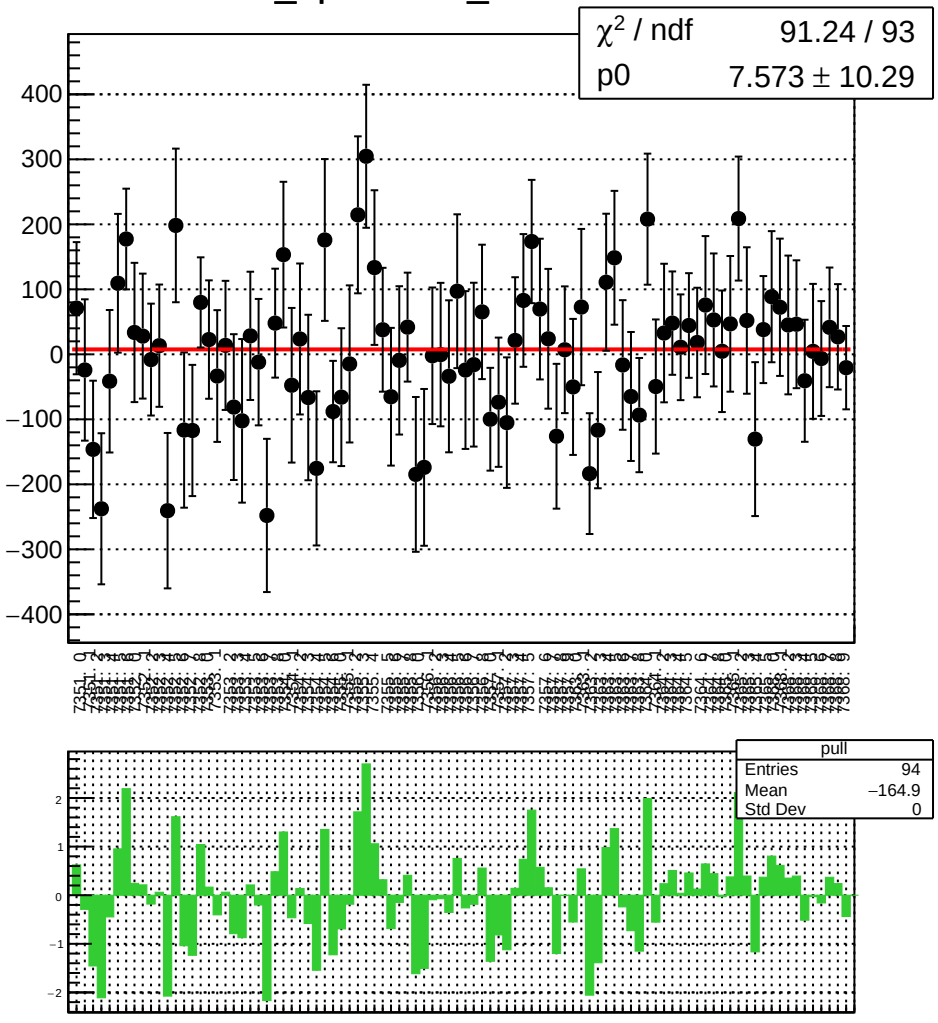

pull1D
Entries 94
Mean −0.01543
Std Dev 0.9973
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

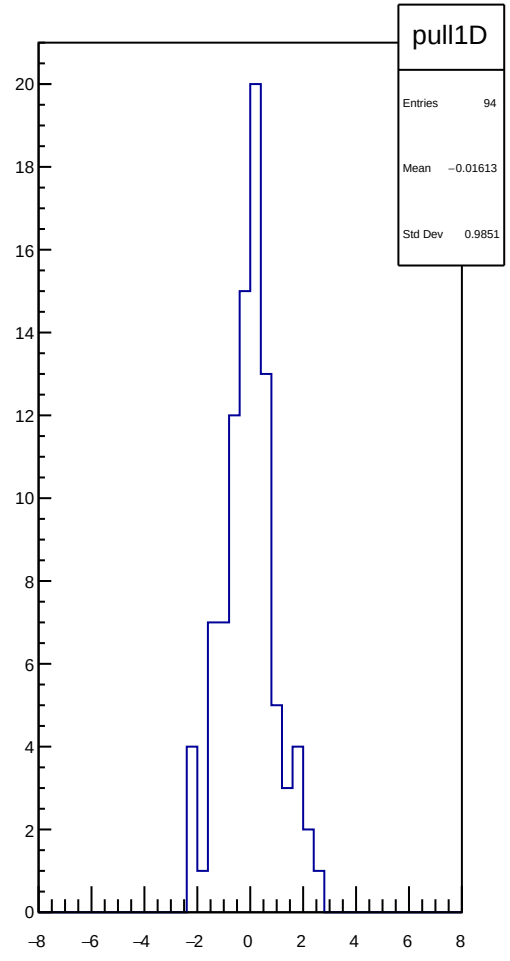

diff_bpm0l07X_rms vs run
χ² / ndf 2.437e+04 / 93
p0 1.12e+04 ± 8.363
14000
13000
12000
11000
10000
9000

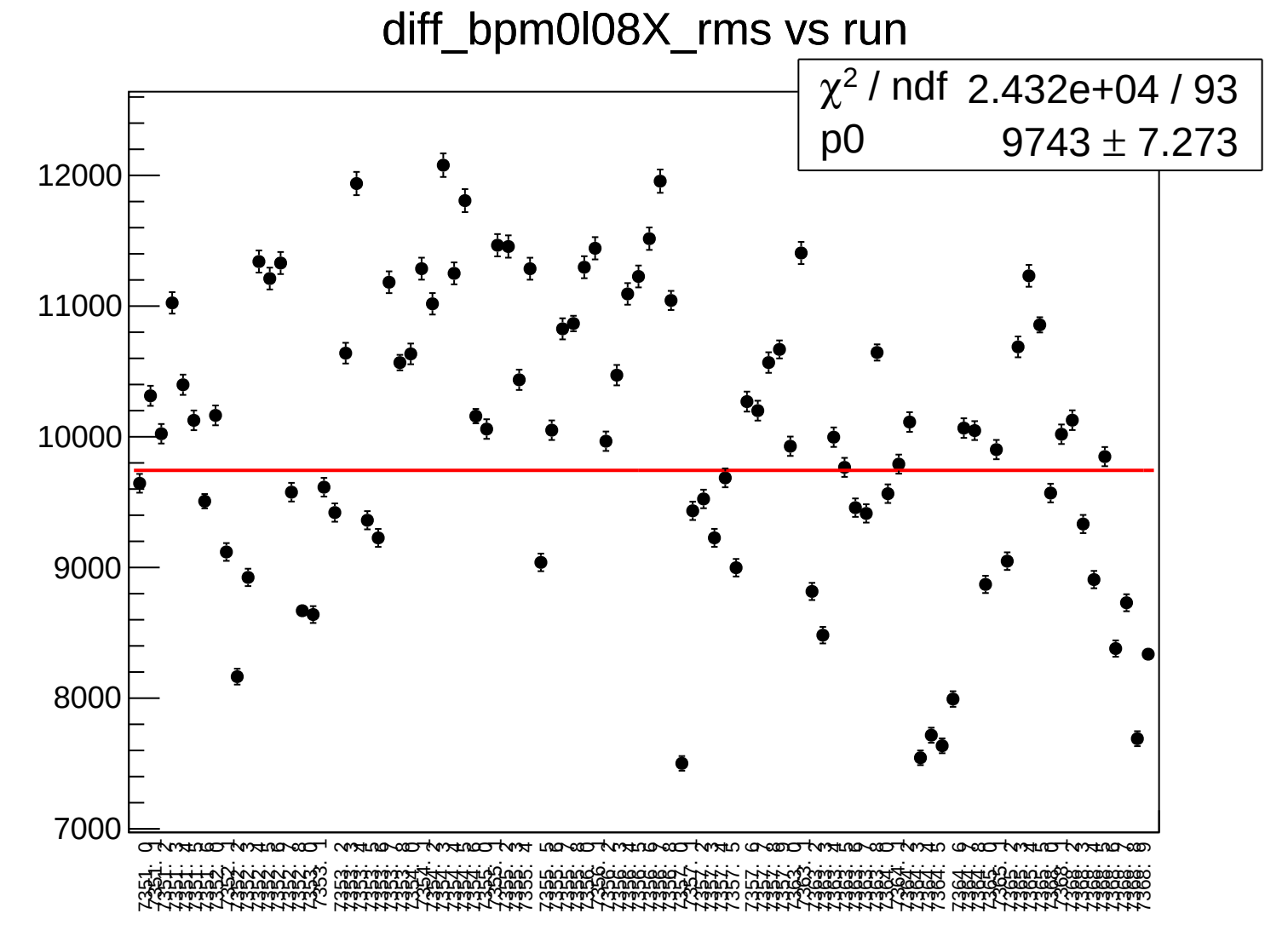

diff_bpm0l07Y_mean vs run
χ² / ndf 462.8 / 93
p0 −2.975 ± 1.188
pull
Entries 94
Mean 467.5
Std Dev 0

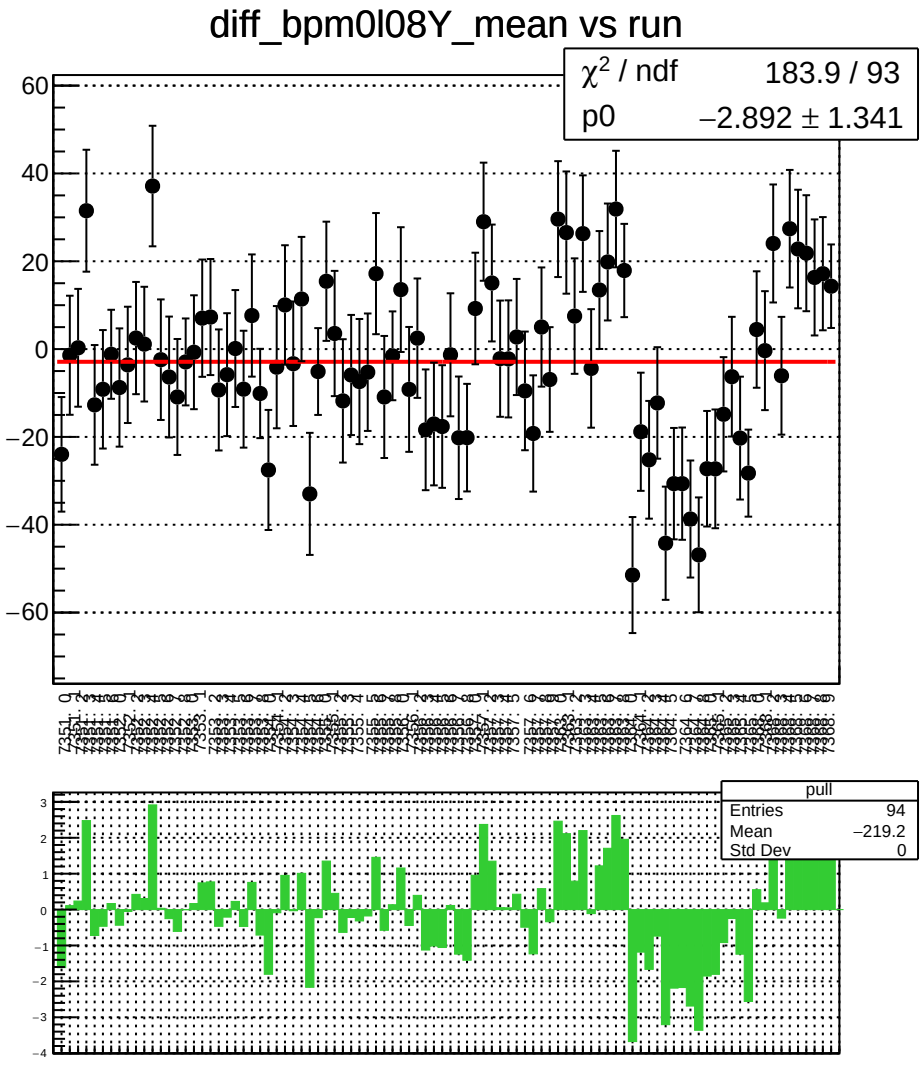

pull1D
Entries 94
Mean 0.02128
Std Dev 2.219

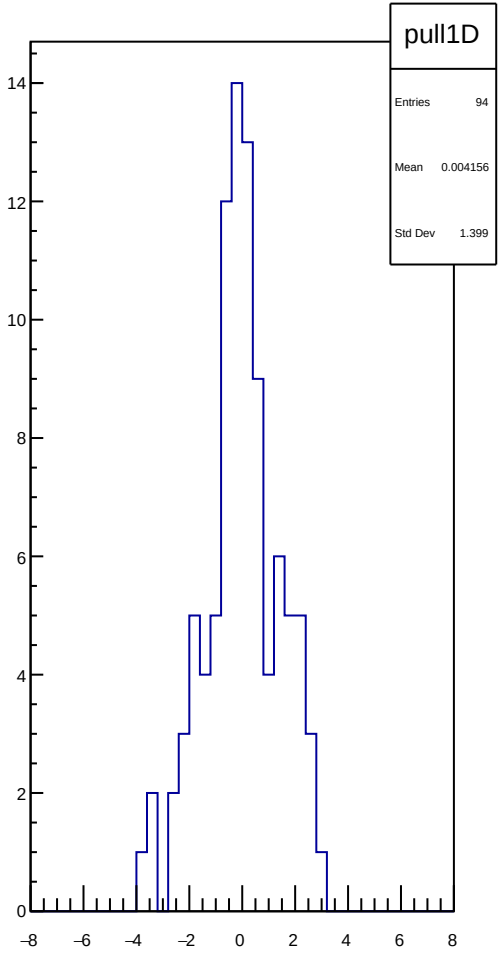

diff_bpm0l07Y_rms vs run
χ² / ndf 331.8 / 93
p0 1133 ± 0.84
1180
1160
1140
1120
1100

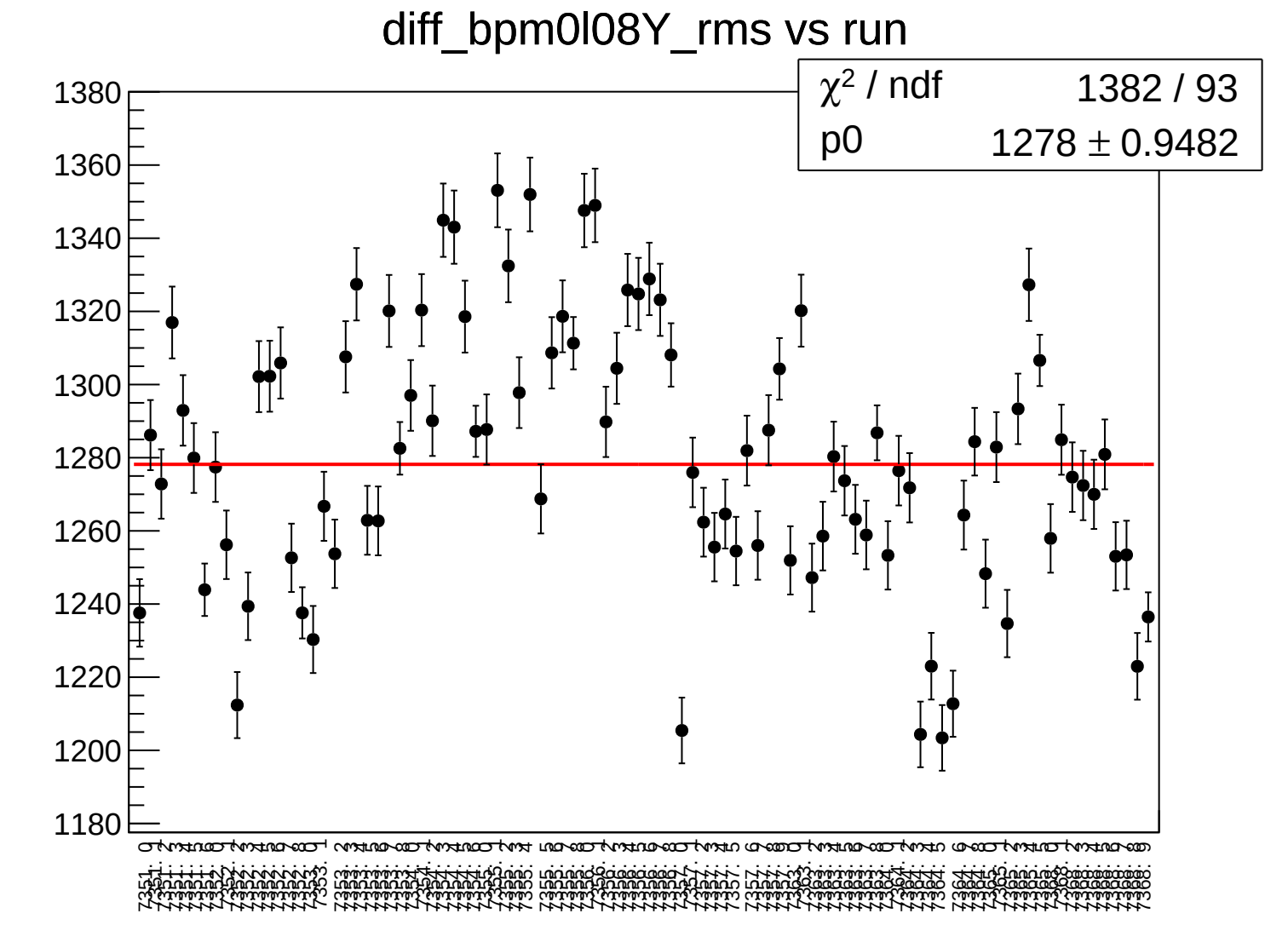

diff_bpm0l08X_mean vs run
χ² / ndf 91.24 / 93
p0 7.573 ± 10.29
pull
Entries 94
Mean −164.9
Std Dev 0

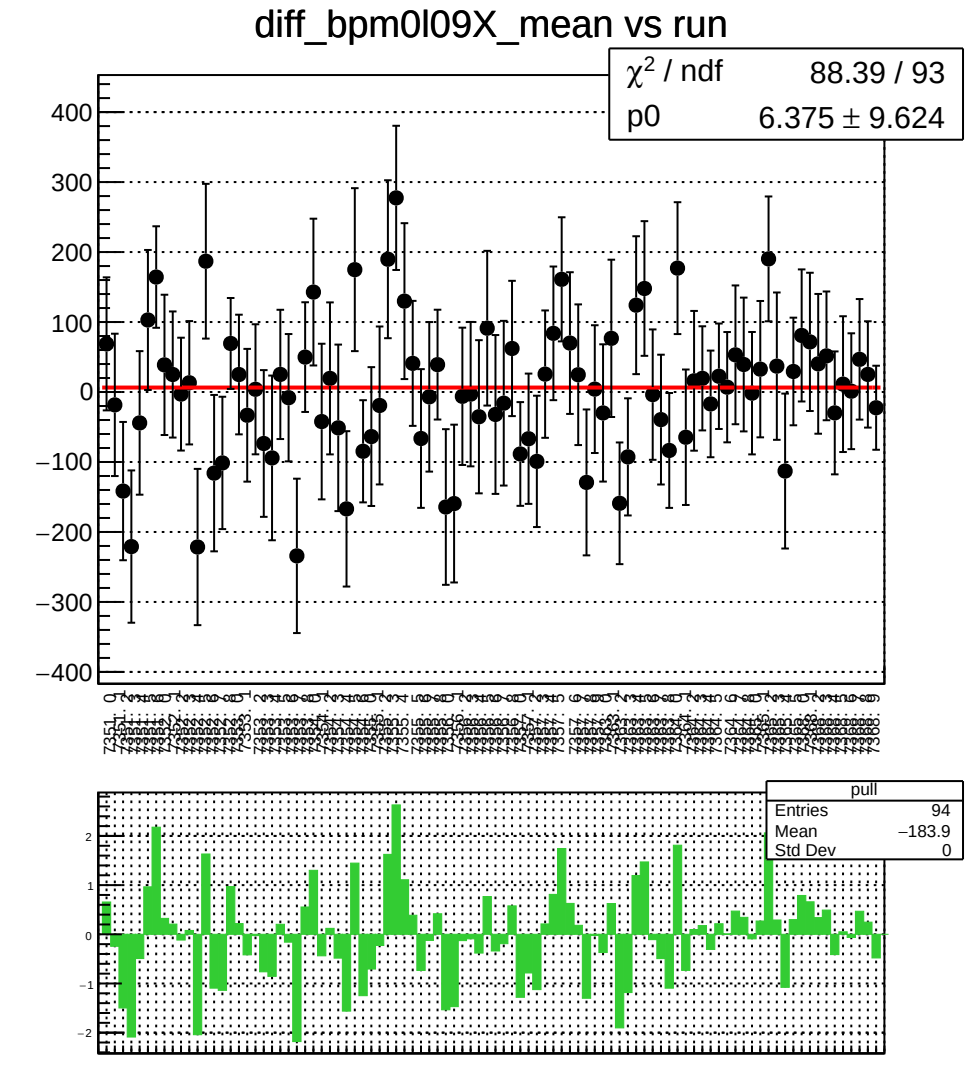

pull1D
Entries 94
Mean −0.01613
Std Dev 0.9851

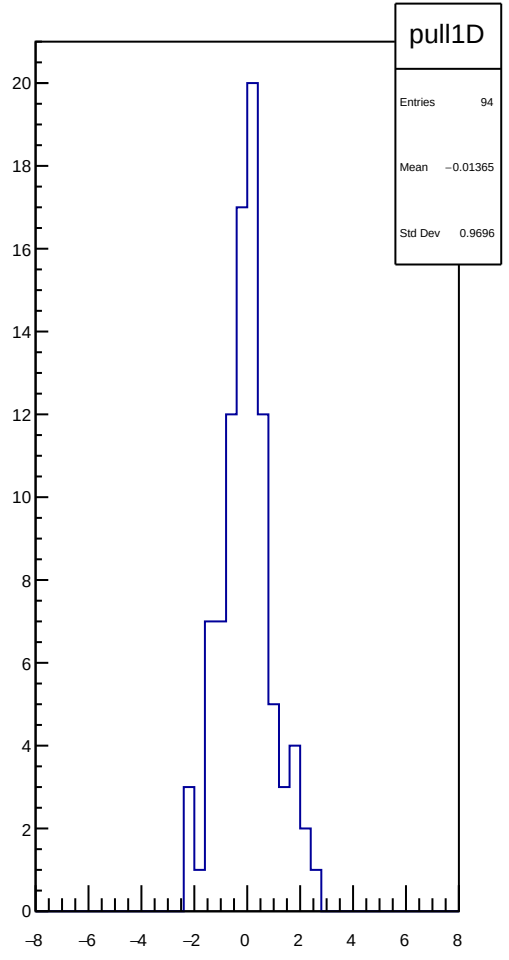

diff_bpm0l08X_rms vs run
χ² / ndf 2.432e+04 / 93
p0 9743 ± 7.273
12000
11000
10000
9000
8000
7000

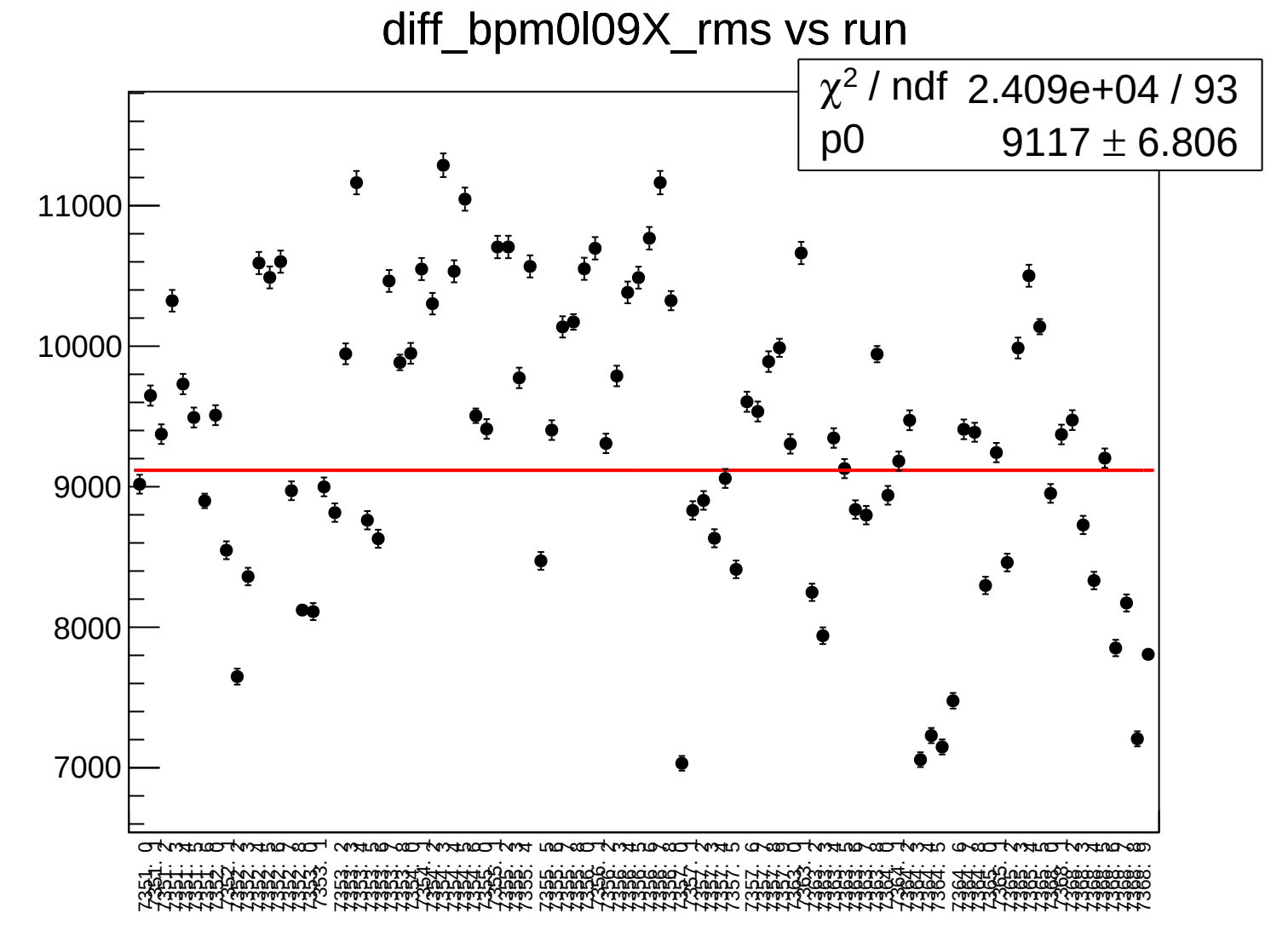

diff_bpm0l08Y_mean vs run
χ² / ndf 183.9 / 93
p0 −2.892 ± 1.341
pull
Entries 94
Mean −219.2
Std Dev 0

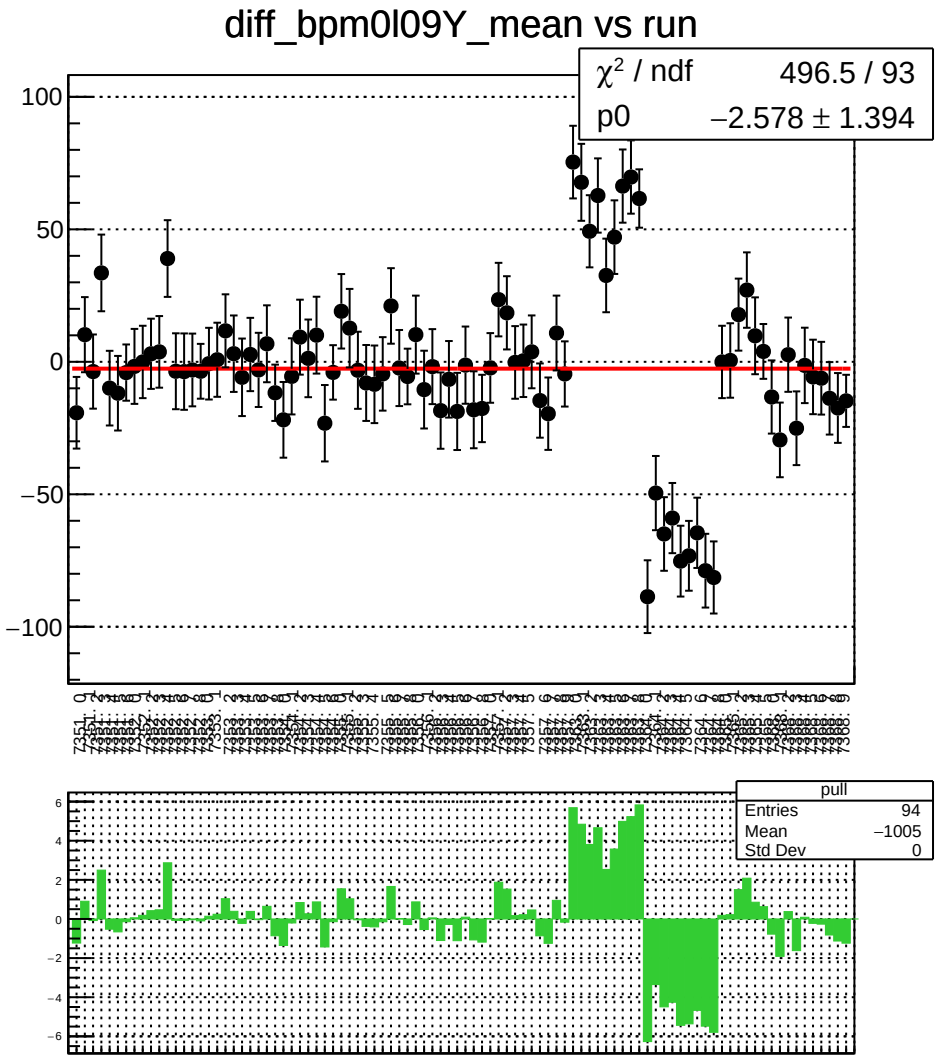

pull1D
Entries 94
Mean 0.004156
Std Dev 1.399

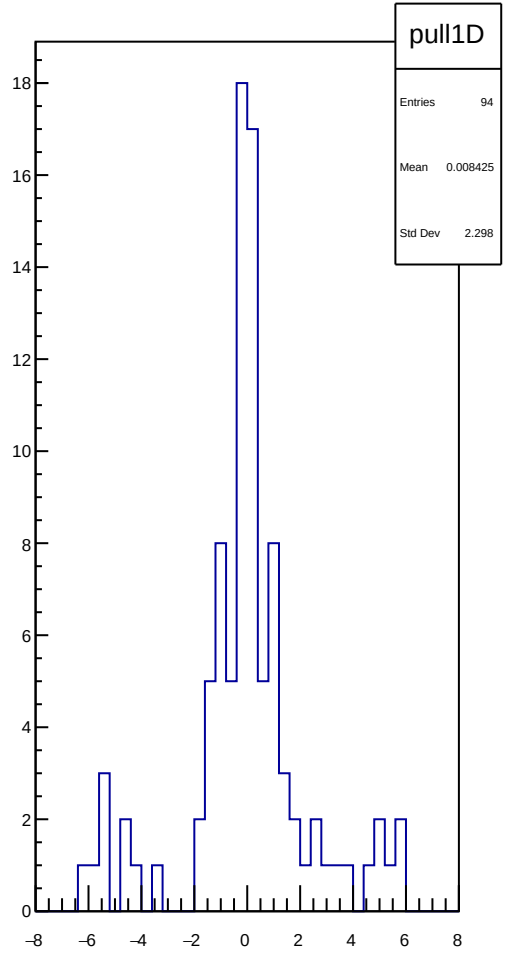

diff_bpm0l08Y_rms vs run
χ² / ndf 1382 / 93
p0 1278 ± 0.9482
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200
1180

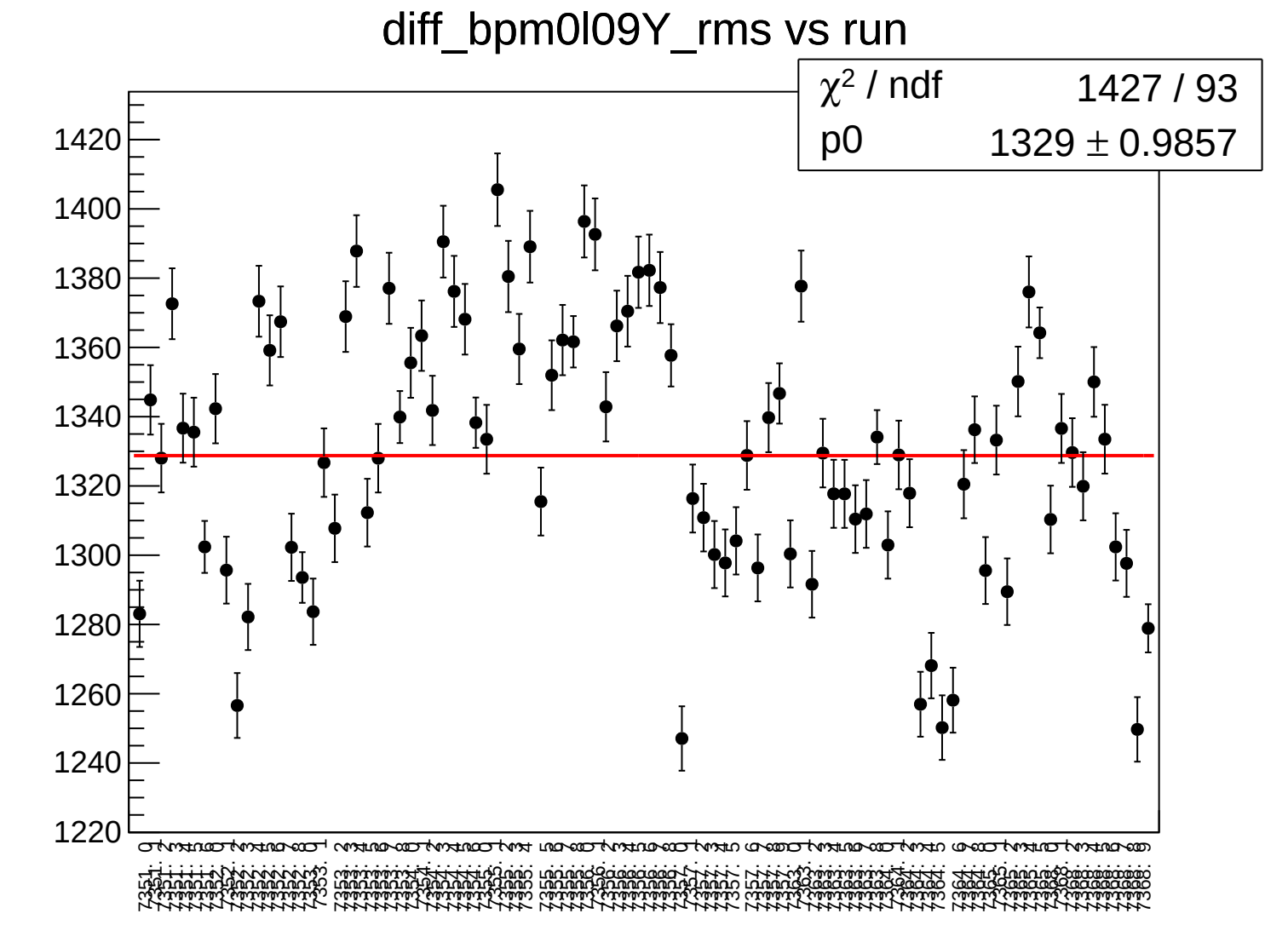

diff_bpm0l09X_mean vs run
χ^2 / ndf 88.39 / 93
p0 6.375 ± 9.624
pull
Entries 94
Mean −183.9
Std Dev 0

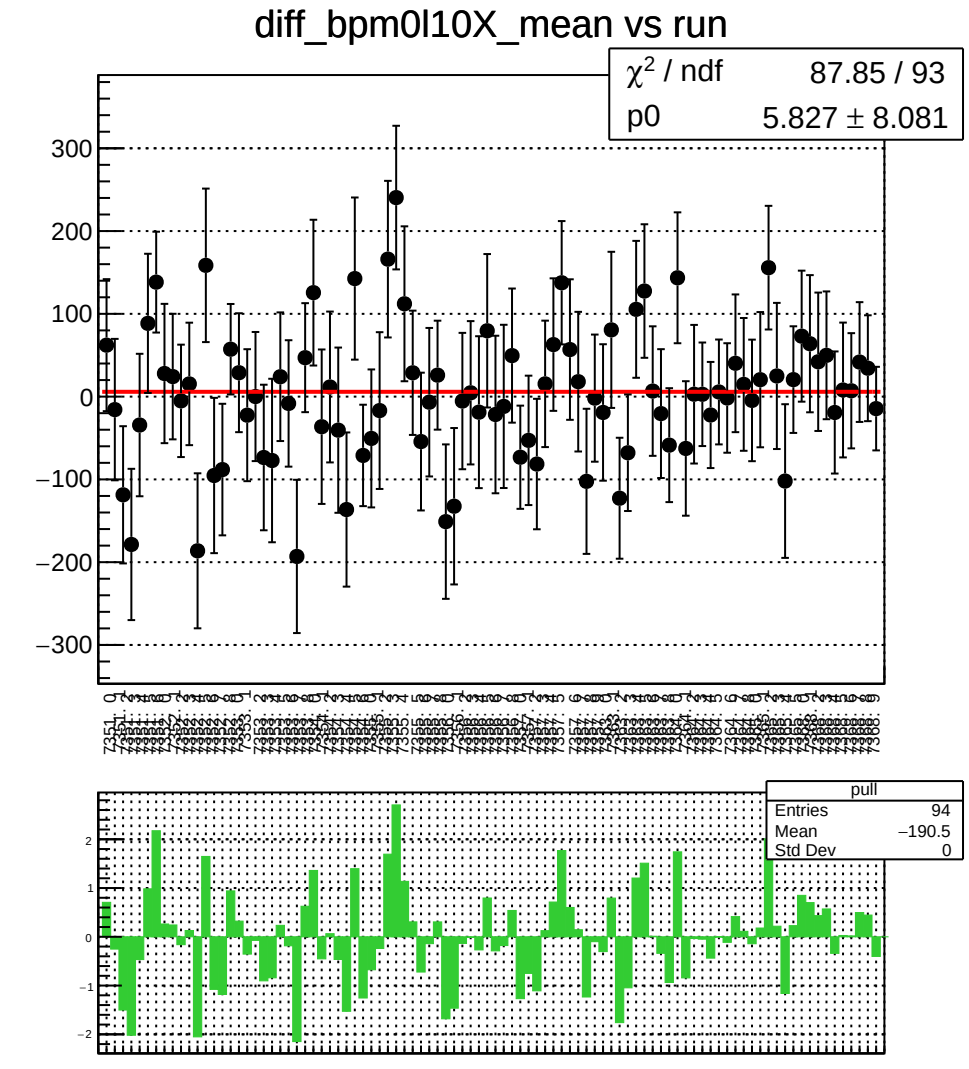

pull1D
Entries 94
Mean −0.01365
Std Dev 0.9696

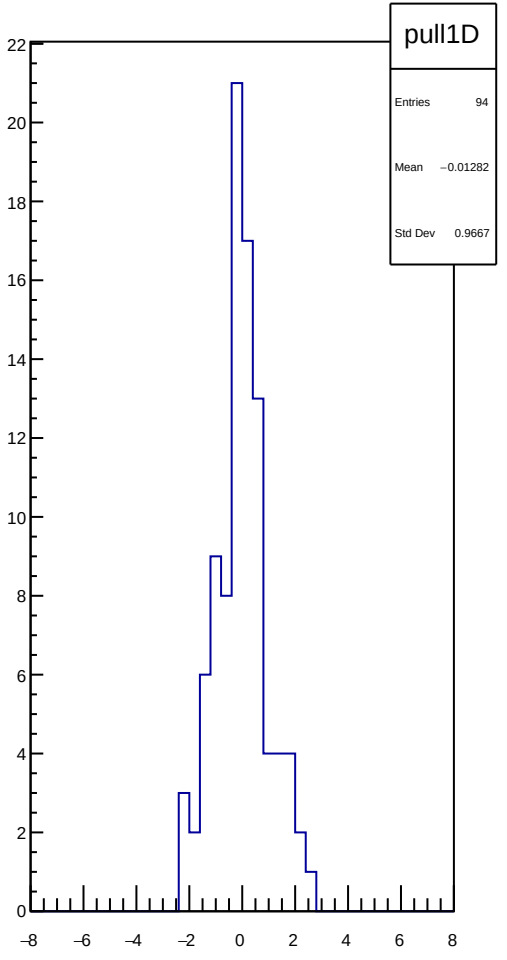

diff_bpm0l09X_rms vs run
χ² / ndf 2.409e+04 / 93
p0 9117 ± 6.806
11000
10000
9000
8000
7000

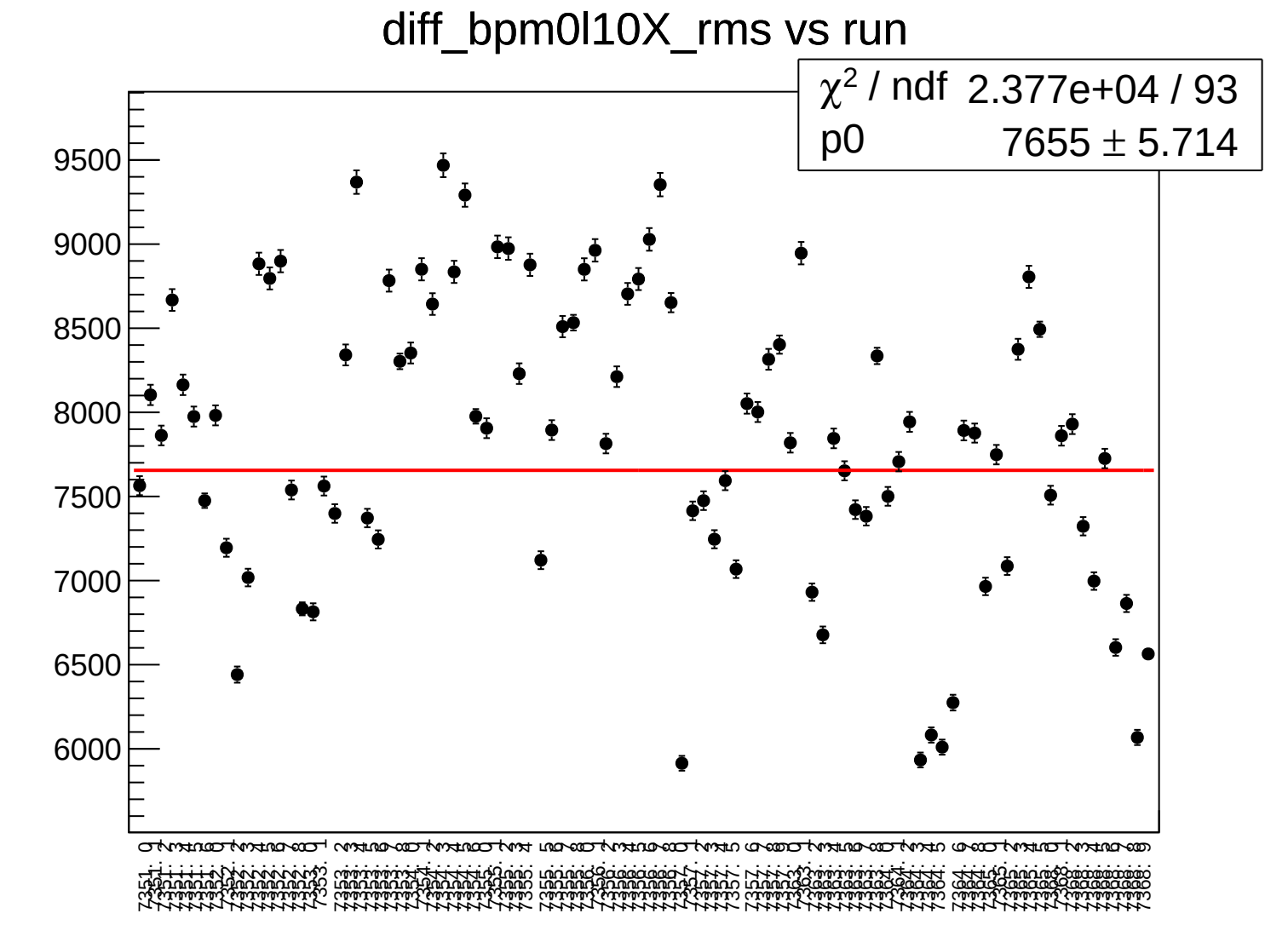

diff_bpm0l09Y_mean vs run
χ² / ndf 496.5 / 93
p0 −2.578 ± 1.394
100
50
0
−50
−100
pull
Entries 94
Mean −1005
Std Dev 0
6
4
2
0
−2
−4
−6

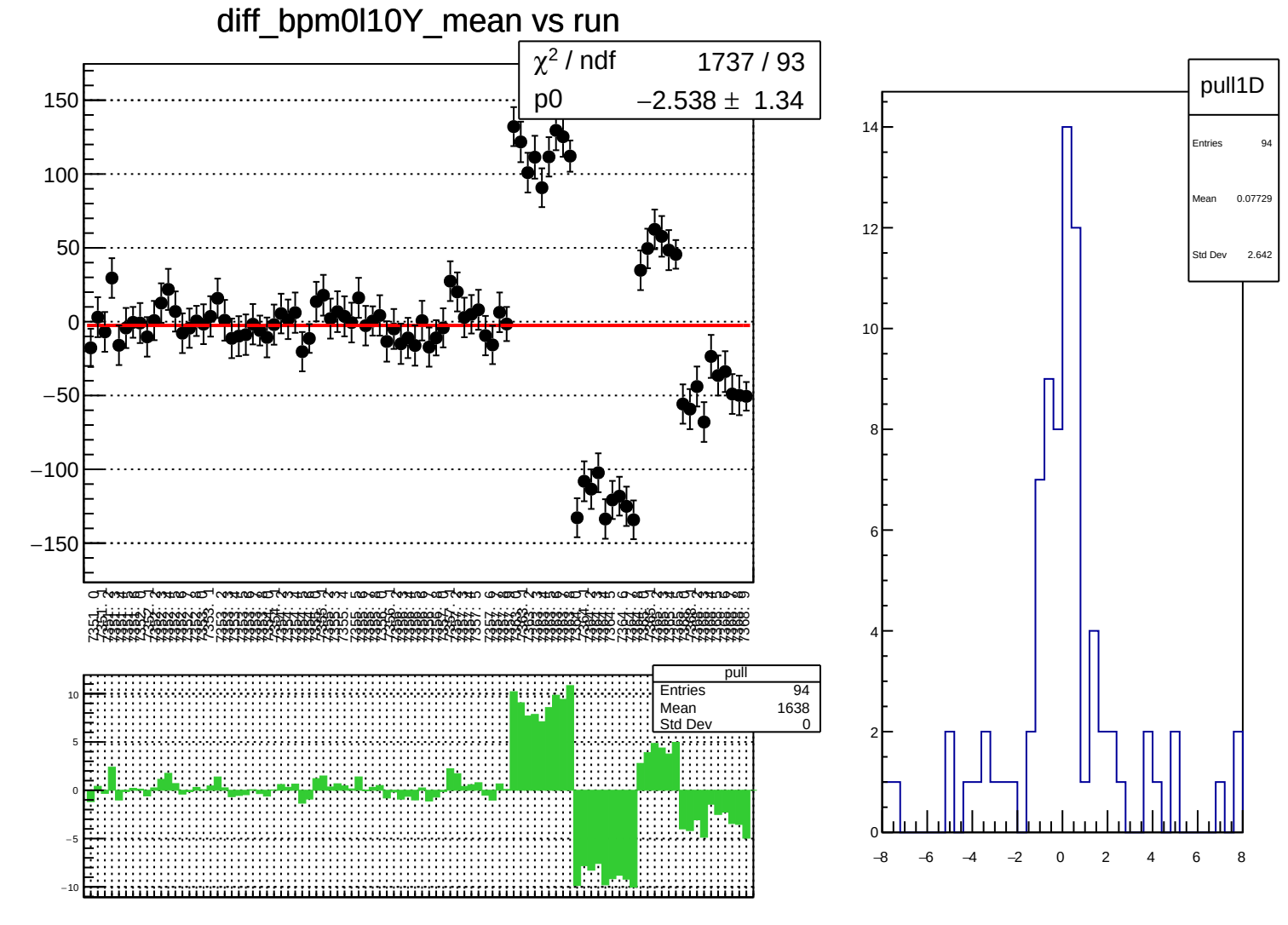

pull1D
Entries 94
Mean 0.008425
Std Dev 2.298
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

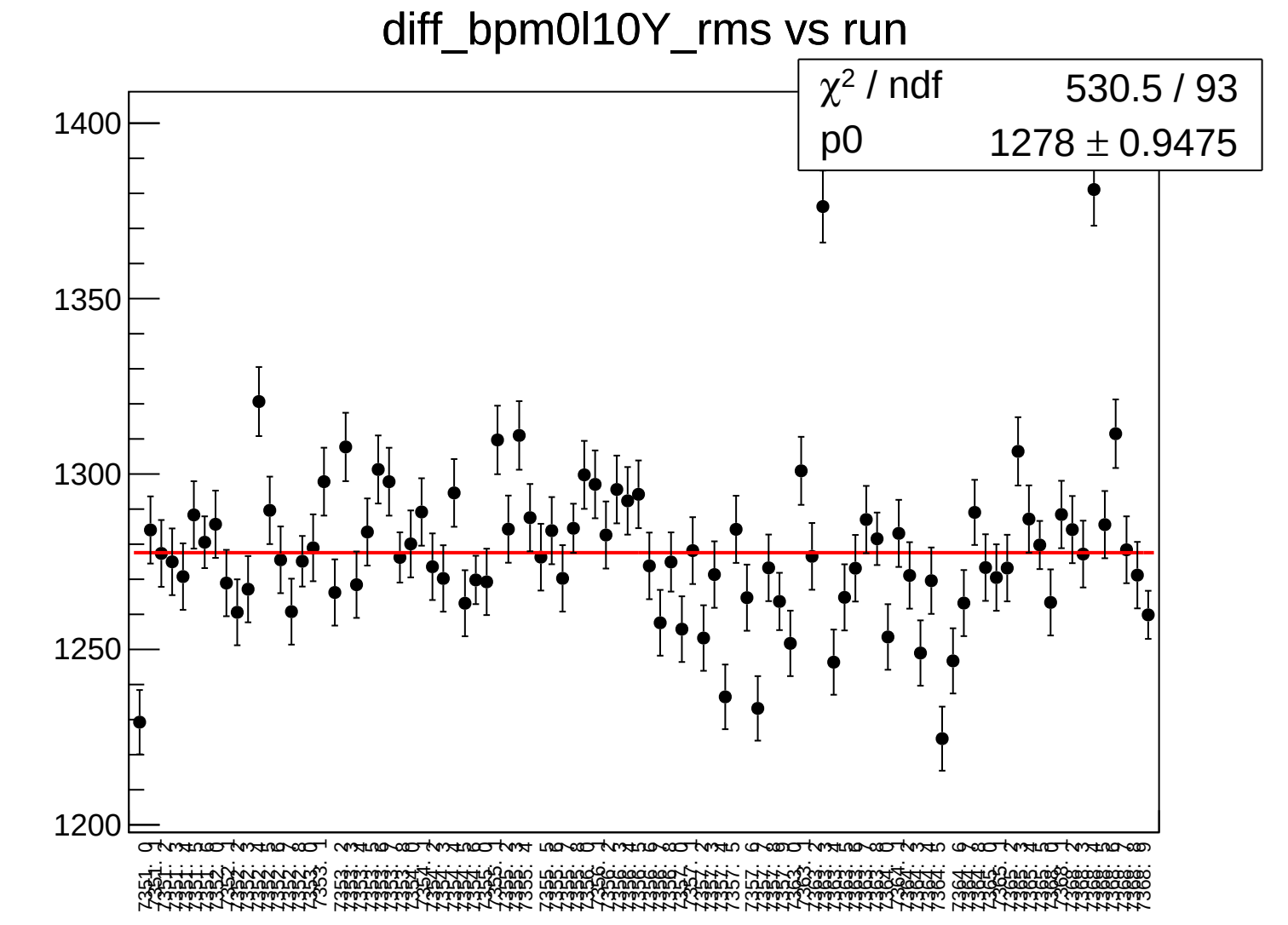

diff_bpm0l09Y_rms vs run
χ² / ndf 1427 / 93
p0 1329 ± 0.9857
1420
1400
1380
1360
1340
1320
1300
1280
1260
1240
1220

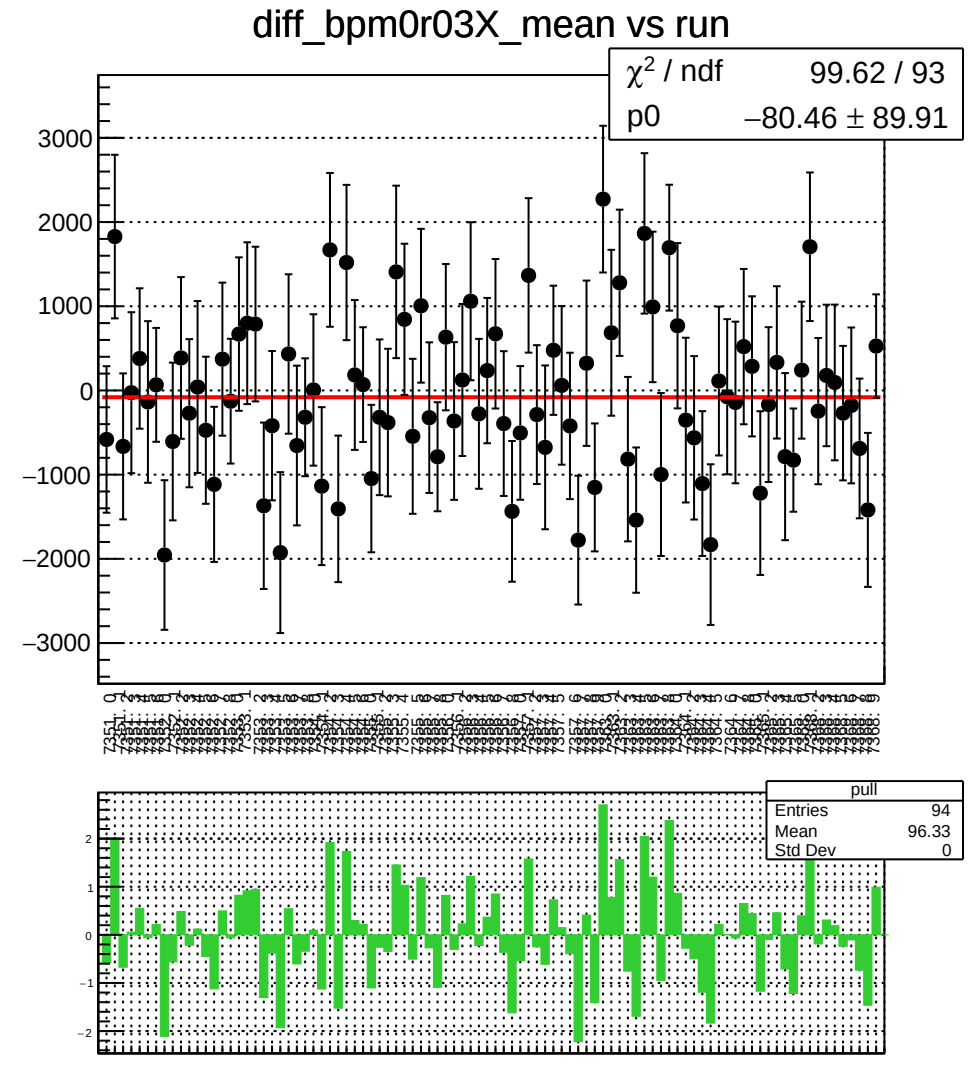

diff_bpm0l10X_mean vs run
χ² / ndf 87.85 / 93
p0 5.827 ± 8.081
pull
Entries 94
Mean −190.5
Std Dev 0

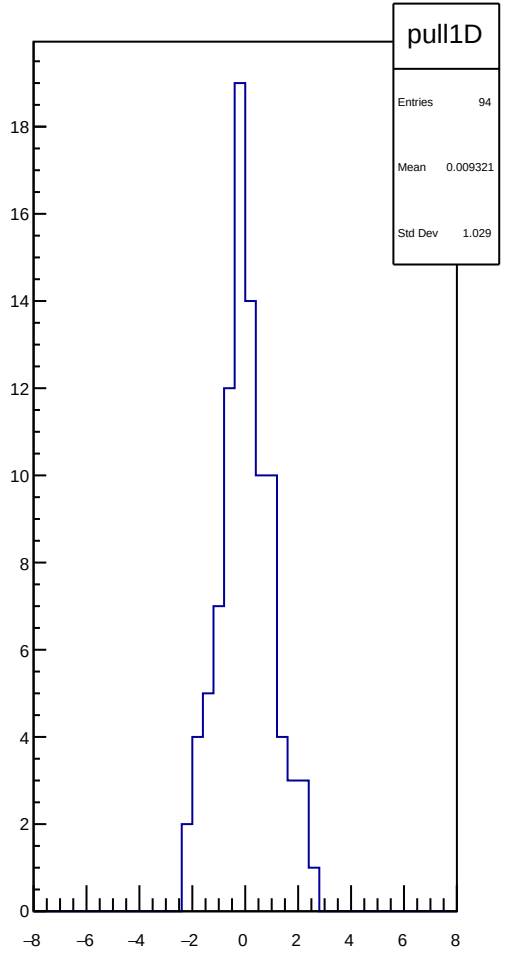

pull1D
Entries 94
Mean −0.01282
Std Dev 0.9667

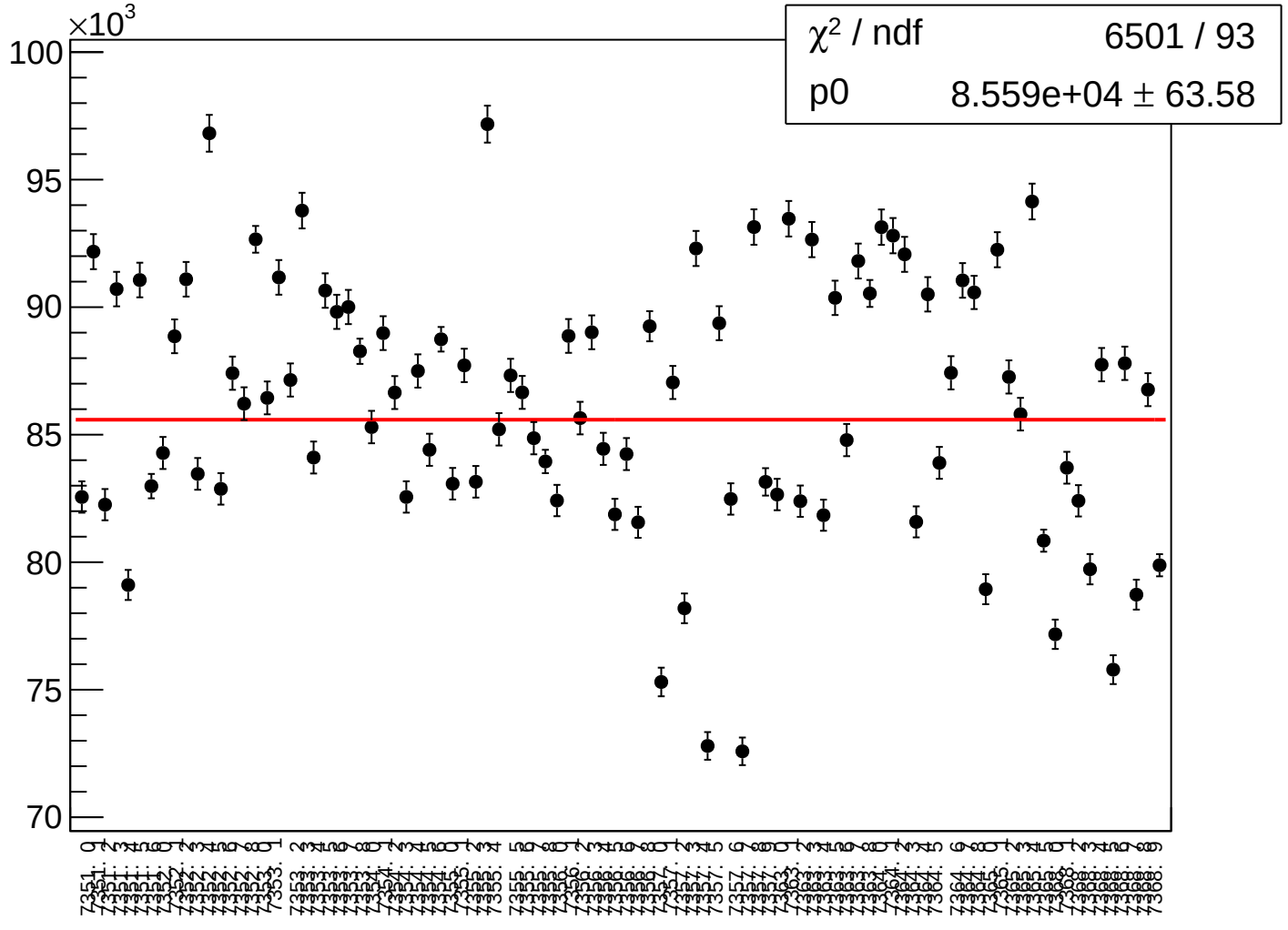

diff_bpm0l10X_rms vs run
χ^2 / ndf 2.377e+04 / 93
p0 7655 ± 5.714
9500
9000
8500
8000
7500
7000
6500
6000

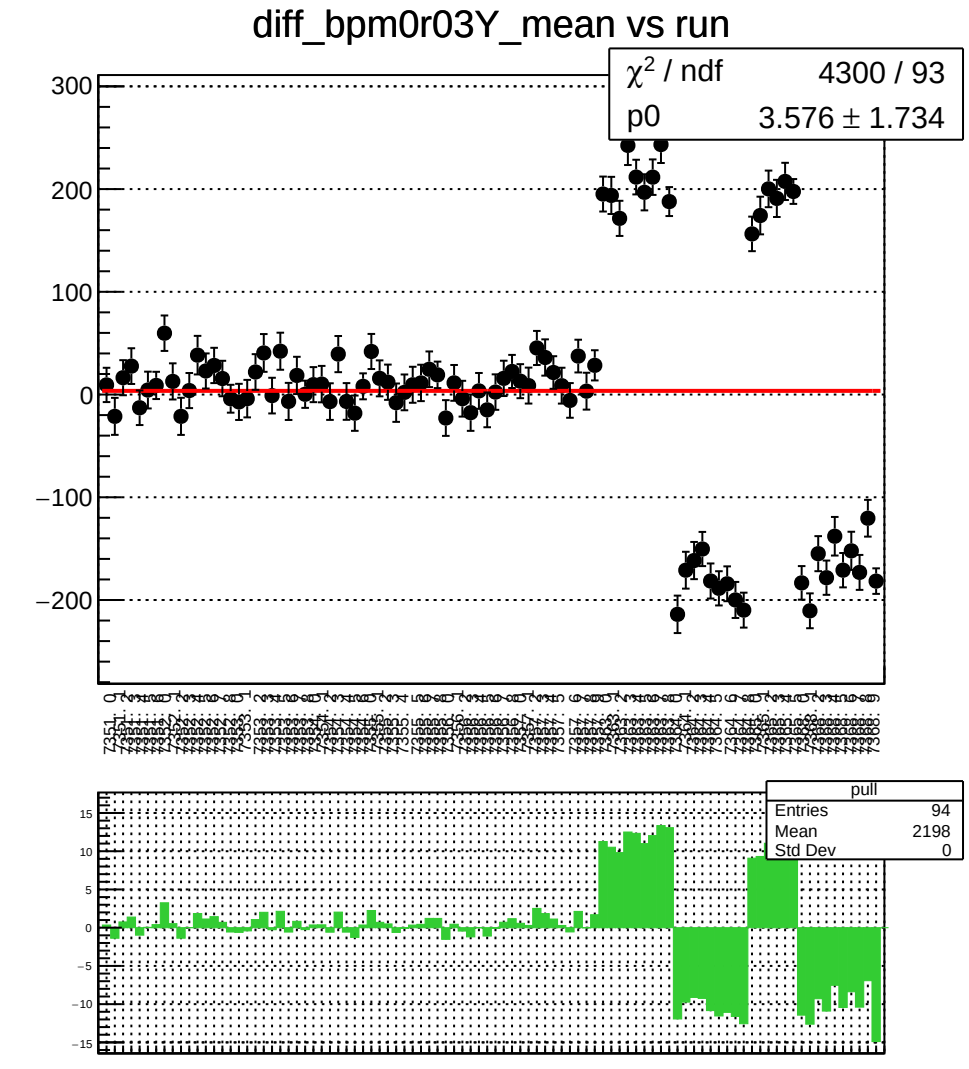

diff_bpm0l10Y_mean vs run
χ² / ndf 1737 / 93
p0 −2.538 ± 1.34
150
100
50
0
−50
−100
−150
pull
Entries 94
Mean 1638
Std Dev 0
10
5
0
−5
−10
pull1D
Entries 94
Mean 0.07729
Std Dev 2.642
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

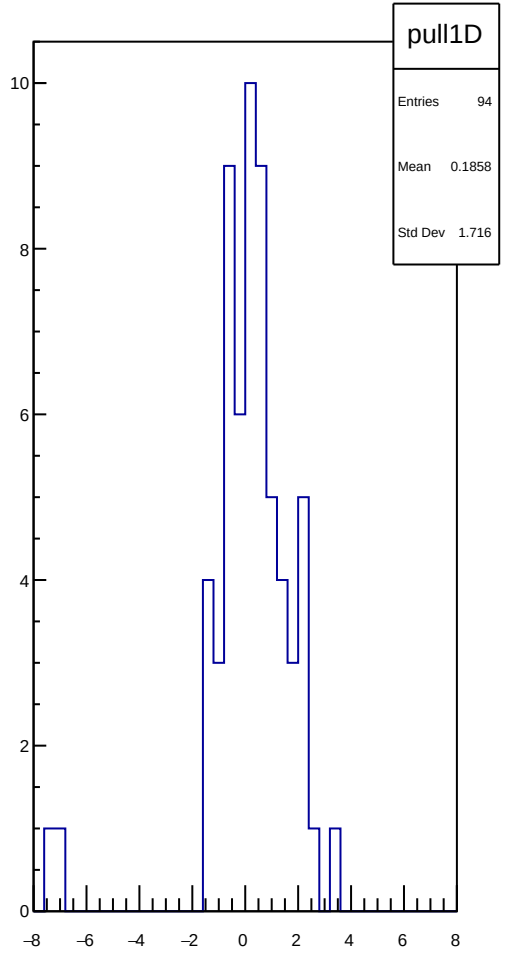

diff_bpm0l10Y_rms vs run
χ² / ndf 530.5 / 93
p0 1278 ± 0.9475
1400
1350
1300
1250
1200

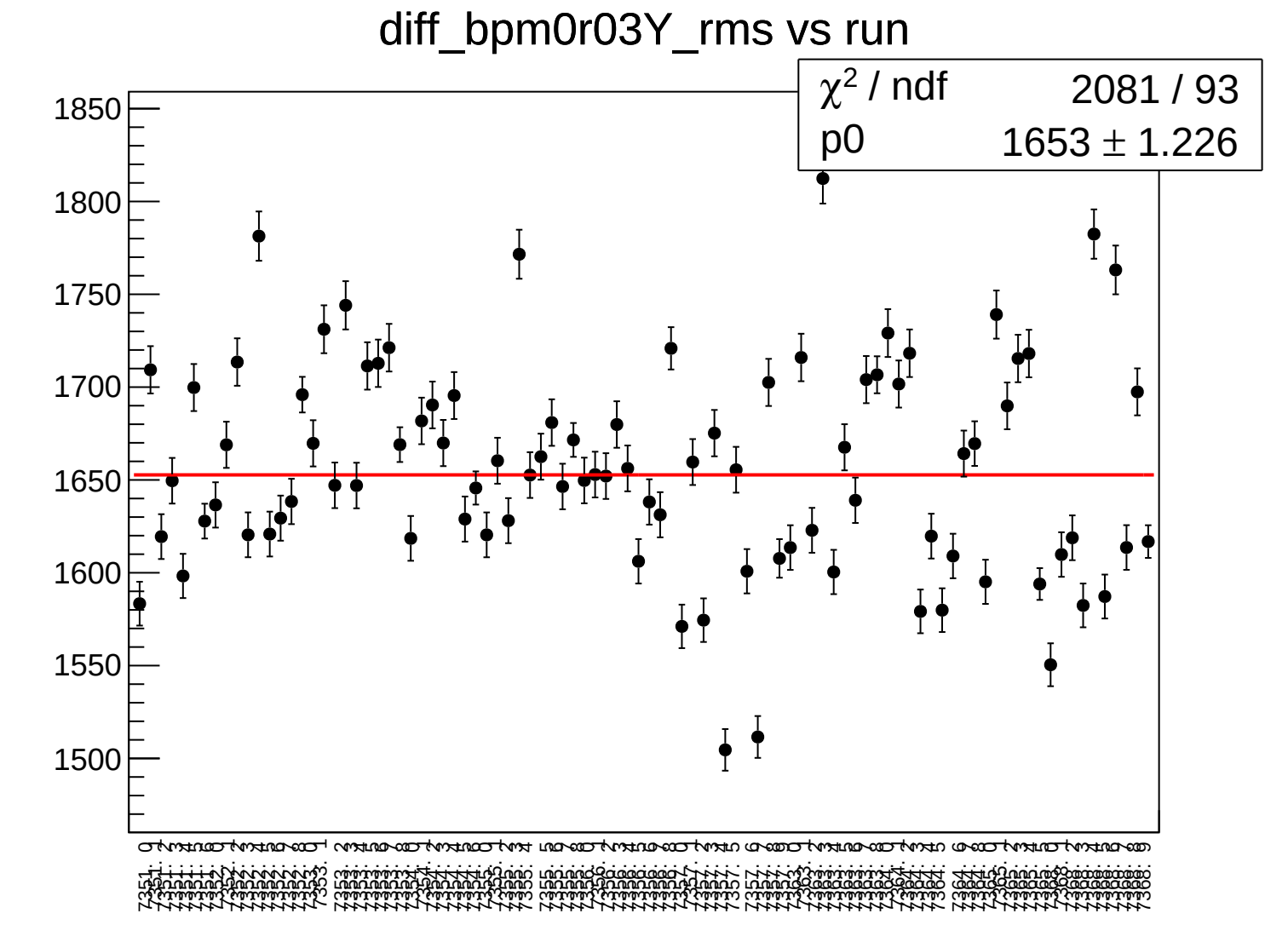

diff_bpm0r03X_mean vs run
χ² / ndf 99.62 / 93
p0 −80.46 ± 89.91
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 94
Mean 96.33
Std Dev 0
2
1
0
−1
−2

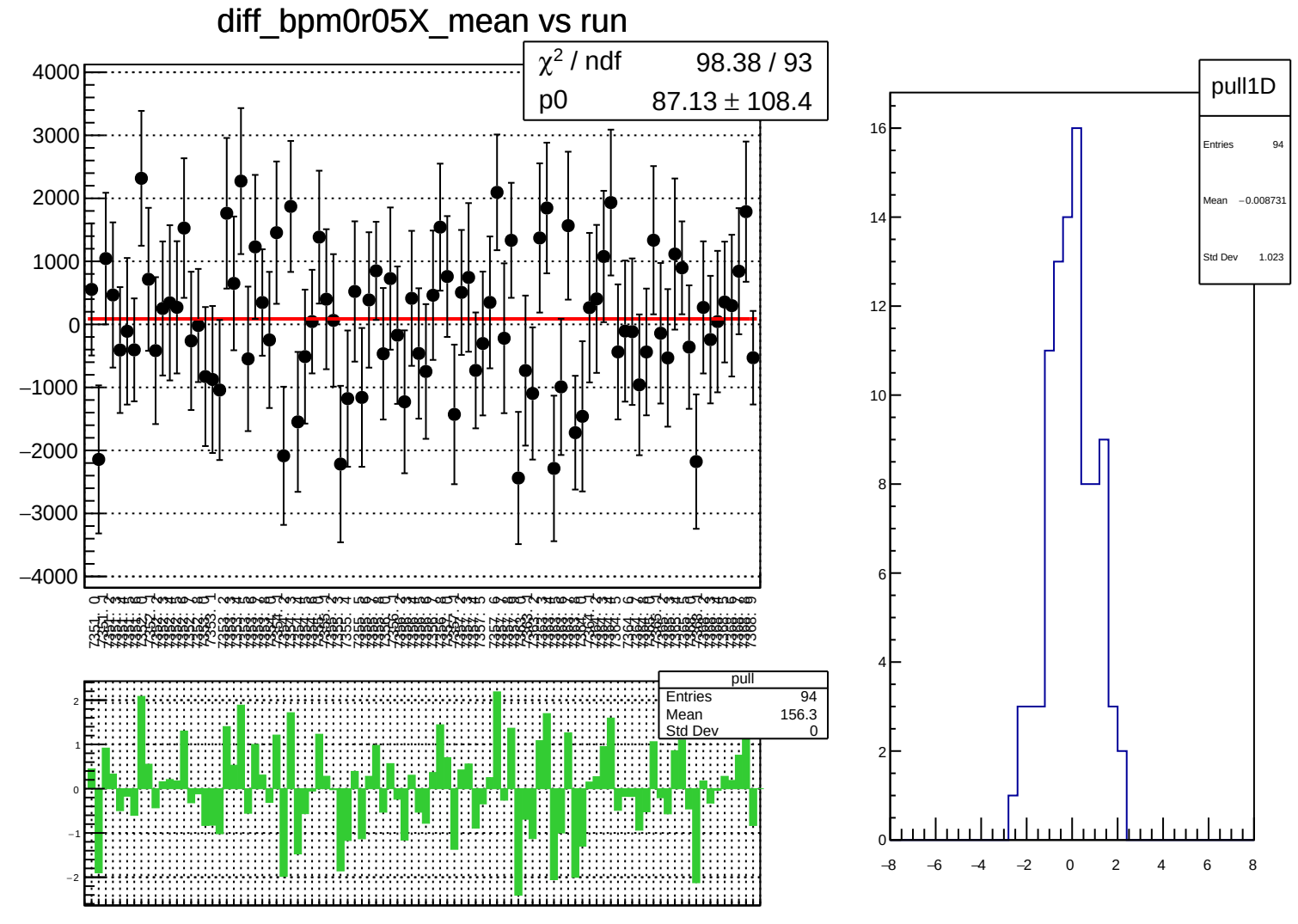

pull1D
Entries 94
Mean 0.009321
Std Dev 1.029
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

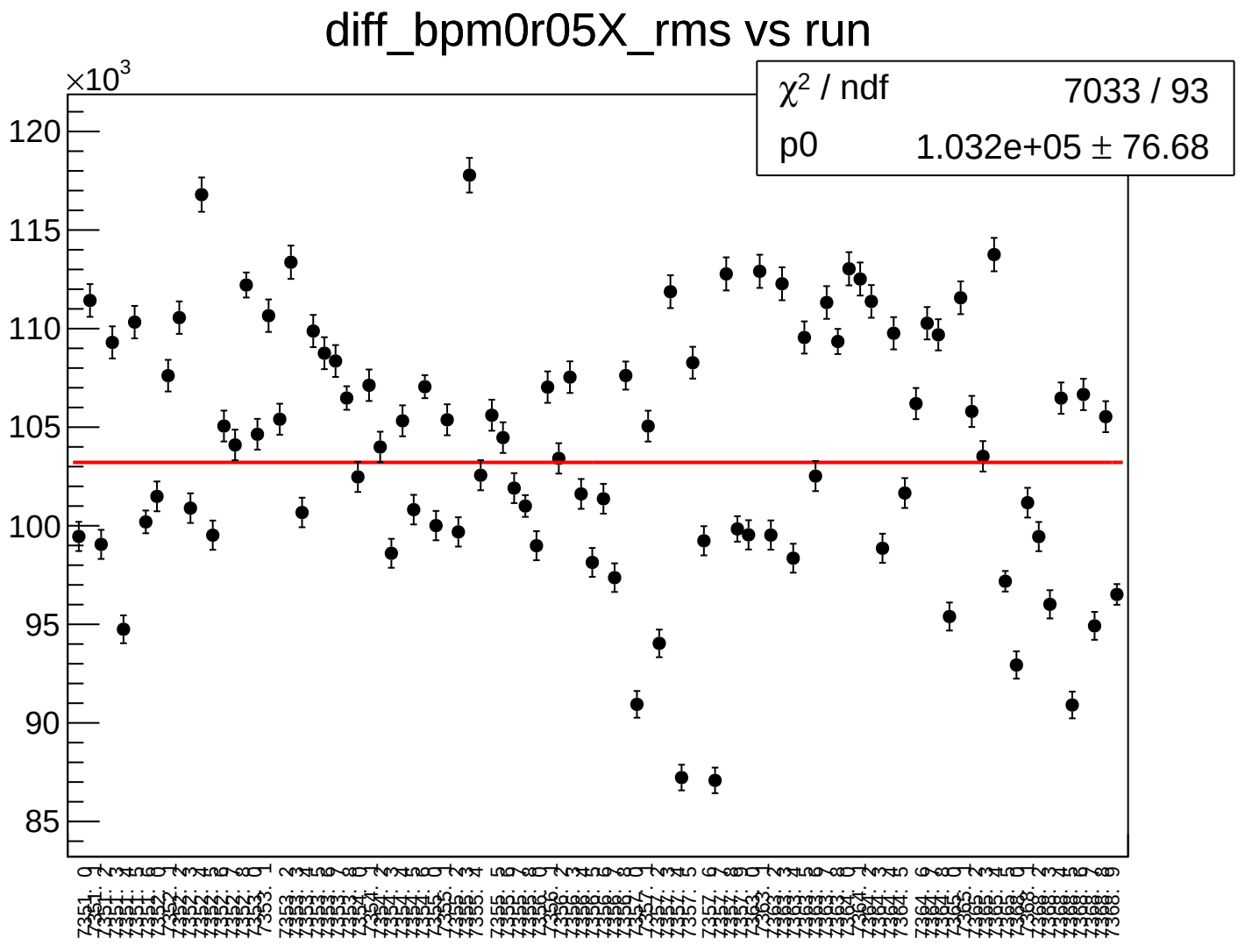

diff_bpm0r03X_rms vs run
×10^3
100
95
90
85
80
75
70
χ² / ndf 6501 / 93
p0 8.559e+04 ± 63.58

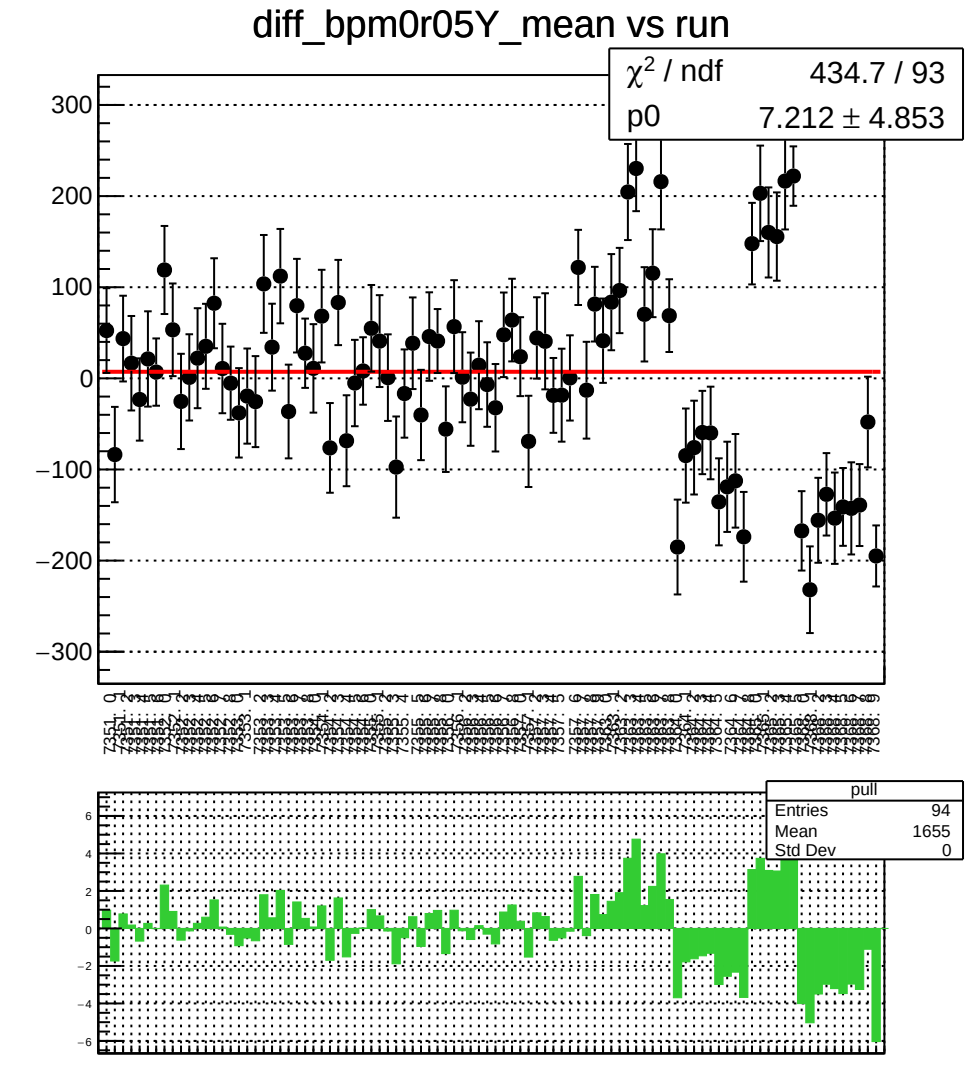

diff_bpm0r03Y_mean vs run
χ² / ndf 4300 / 93
p0 3.576 ± 1.734
300
200
100
0
−100
−200
pull
Entries 94
Mean 2198
Std Dev 0
15
10
5
0
−5
−10
−15

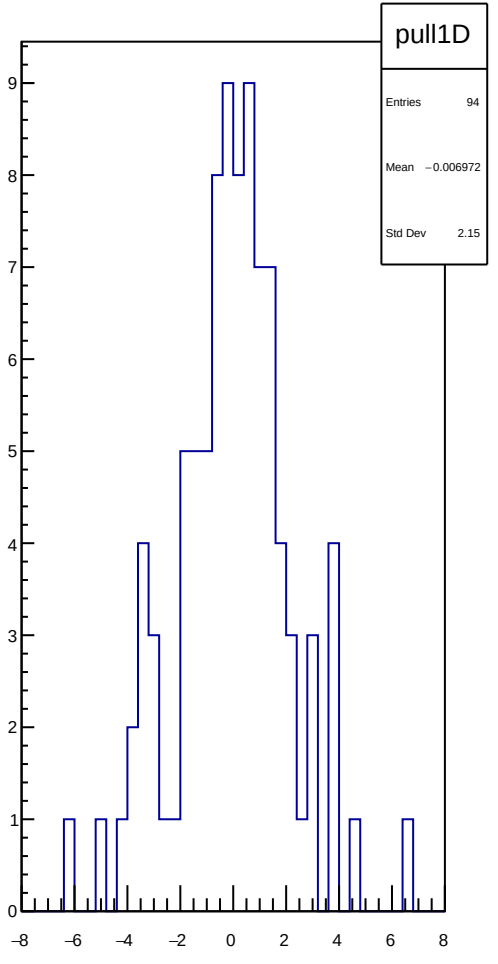

pull1D
Entries 94
Mean 0.1858
Std Dev 1.716
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

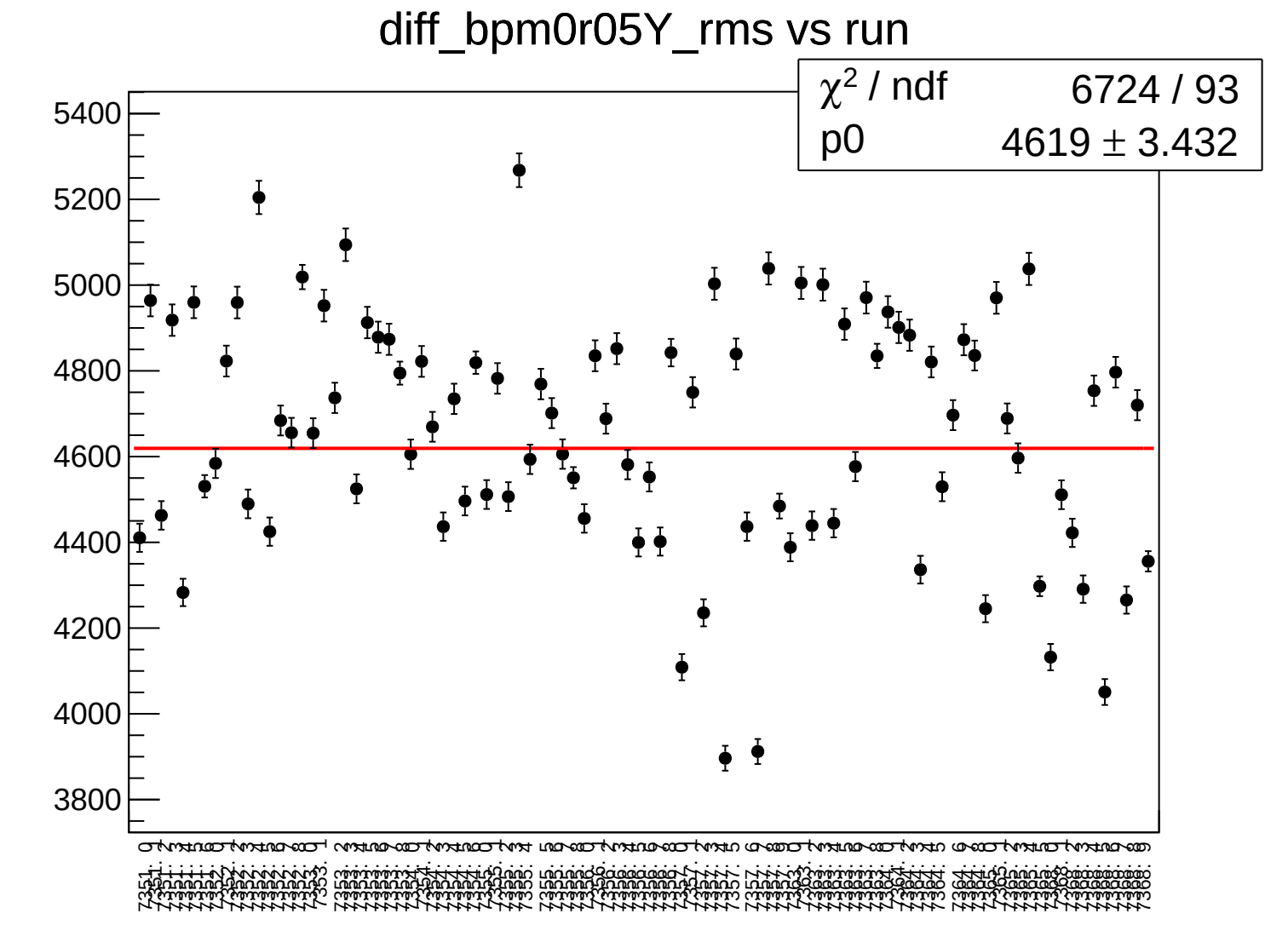

diff_bpm0r03Y_rms vs run
χ² / ndf 2081 / 93
p0 1653 ± 1.226
1850
1800
1750
1700
1650
1600
1550
1500

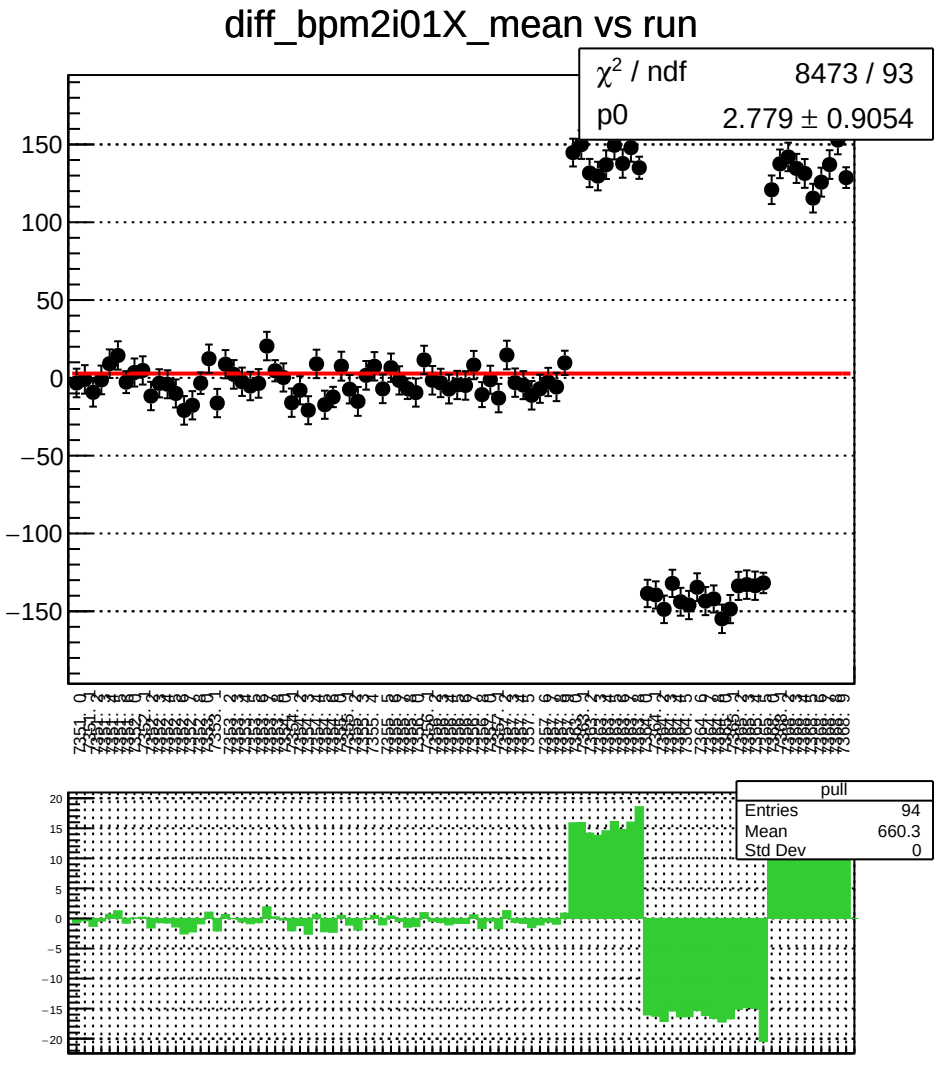

diff_bpm0r05X_mean vs run
χ² / ndf 98.38 / 93
p0 87.13 ± 108.4
pull
Entries 94
Mean 156.3
Std Dev 0
pull1D
Entries 94
Mean −0.008731
Std Dev 1.023

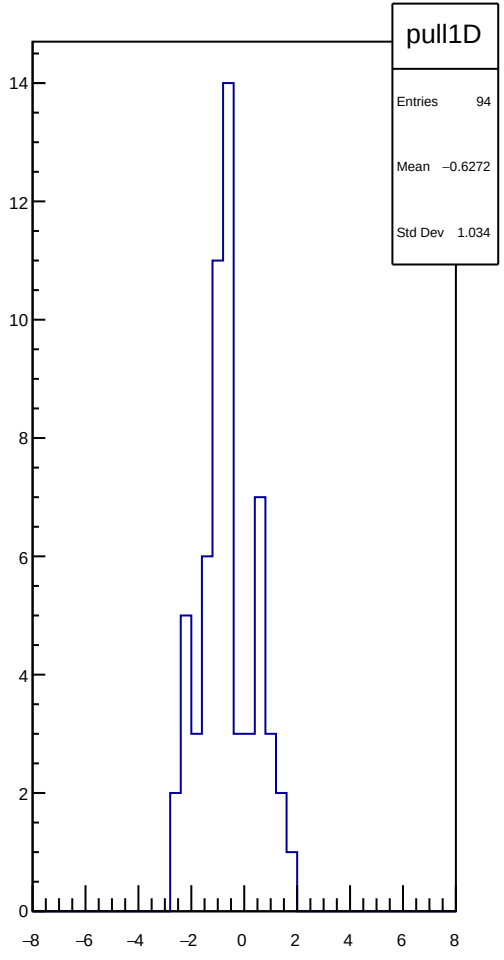

diff_bpm0r05X_rms vs run
×10^3
120
115
110
105
100
95
90
85
χ² / ndf 7033 / 93
p0 1.032e+05 ± 76.68

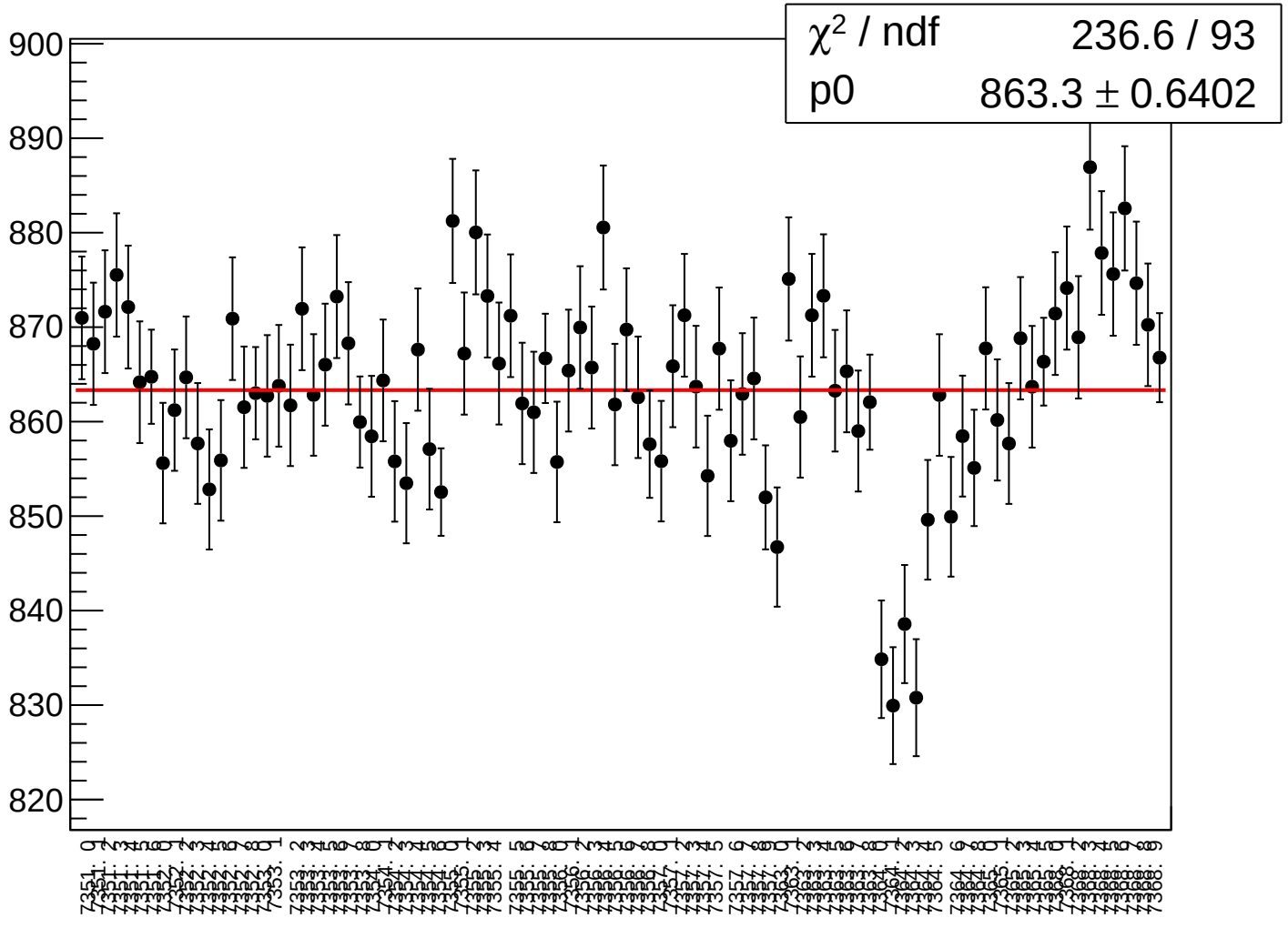

diff_bpm0r05Y_mean vs run
χ² / ndf 434.7 / 93
p0 7.212 ± 4.853
300
200
100
0
−100
−200
−300
pull
Entries 94
Mean 1655
Std Dev 0
6
4
2
0
−2
−4
−6

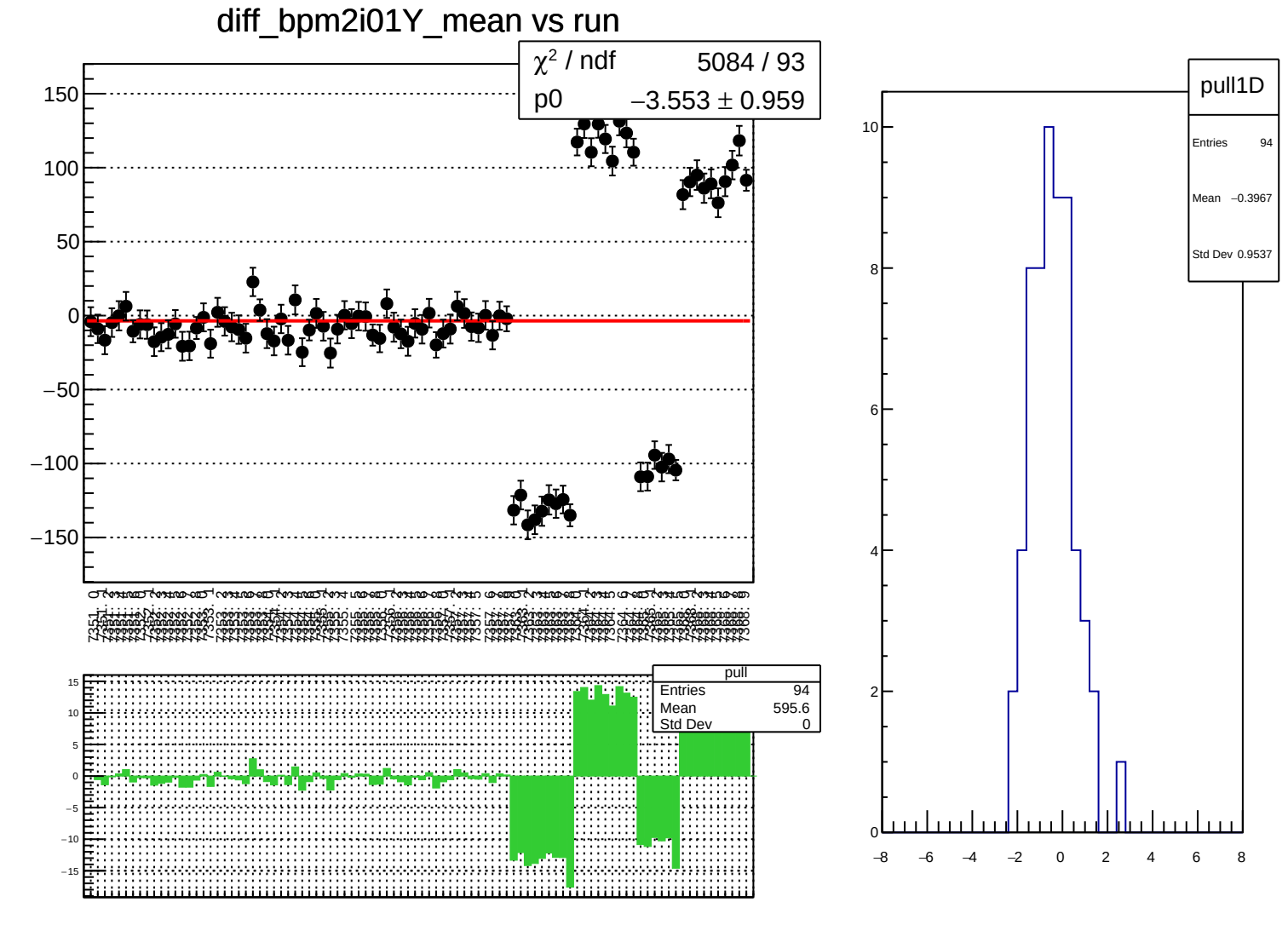

pull1D
Entries 94
Mean −0.006972
Std Dev 2.15
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

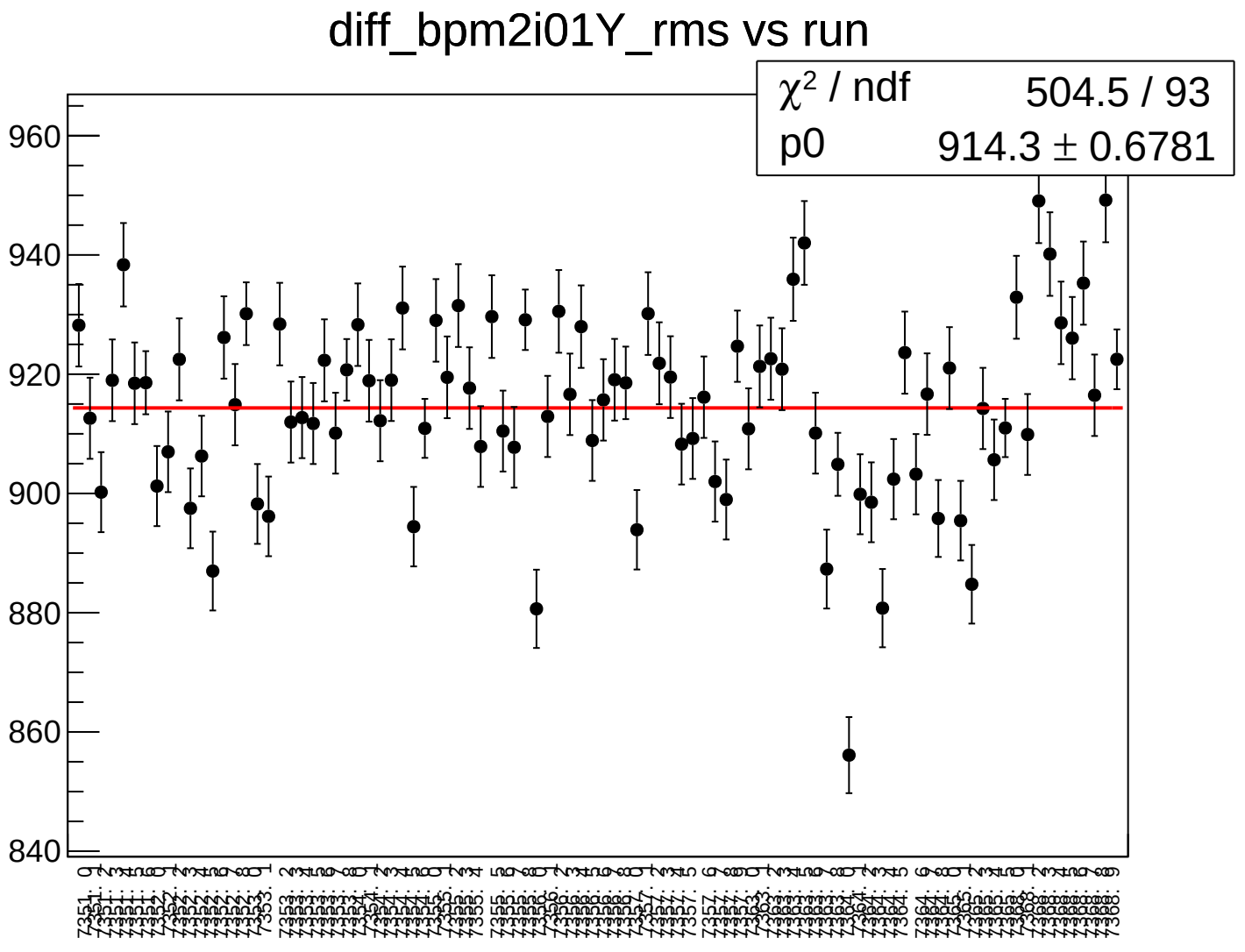

diff_bpm0r05Y_rms vs run
χ^2 / ndf 6724 / 93
p0 4619 ± 3.432
5400
5200
5000
4800
4600
4400
4200
4000
3800

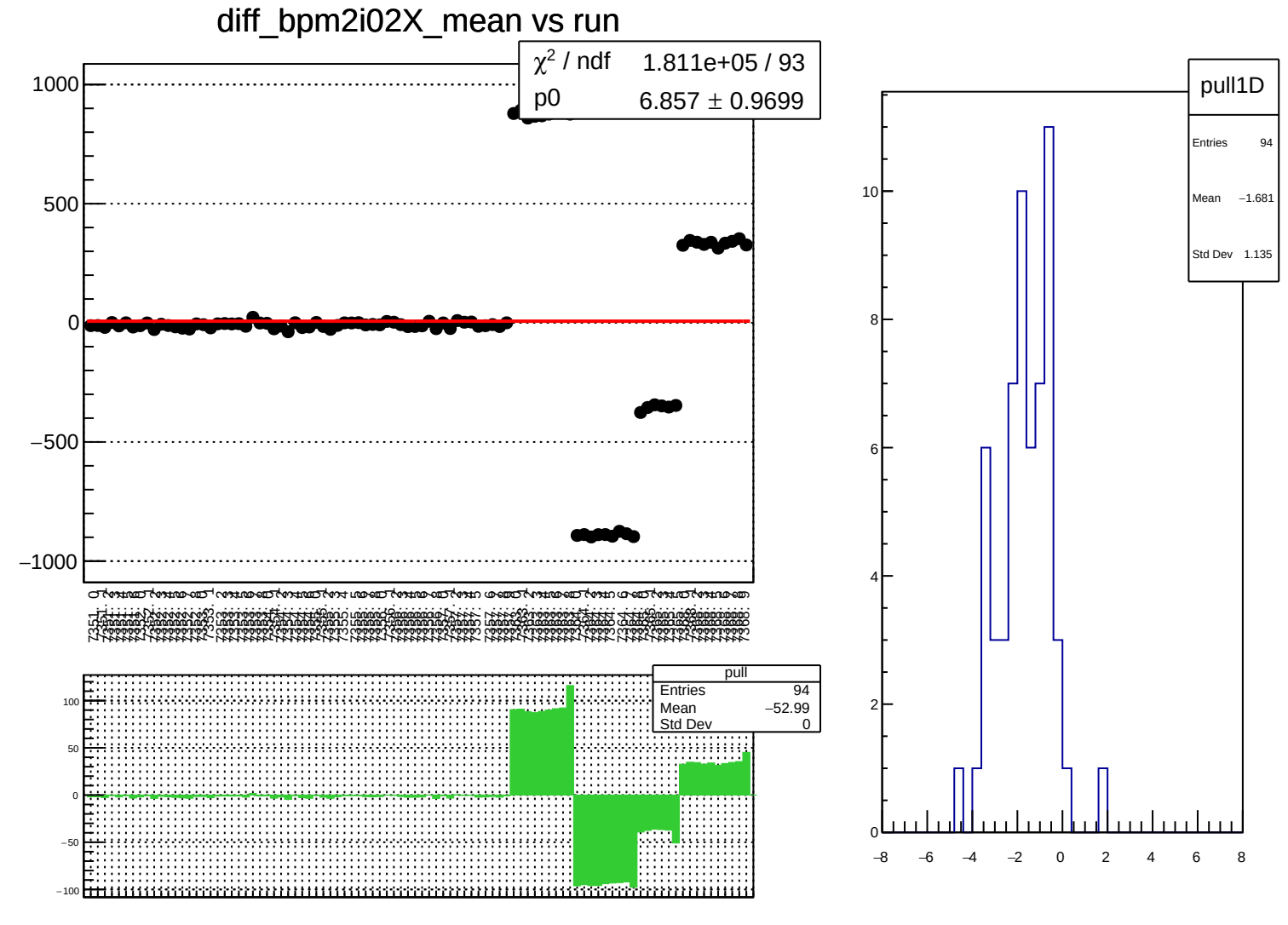

diff_bpm2i01X_mean vs run
χ² / ndf 8473 / 93
p0 2.779 ± 0.9054
150
100
50
0
−50
−100
−150
pull
Entries 94
Mean 660.3
Std Dev 0
20
15
10
5
0
−5
−10
−15
−20

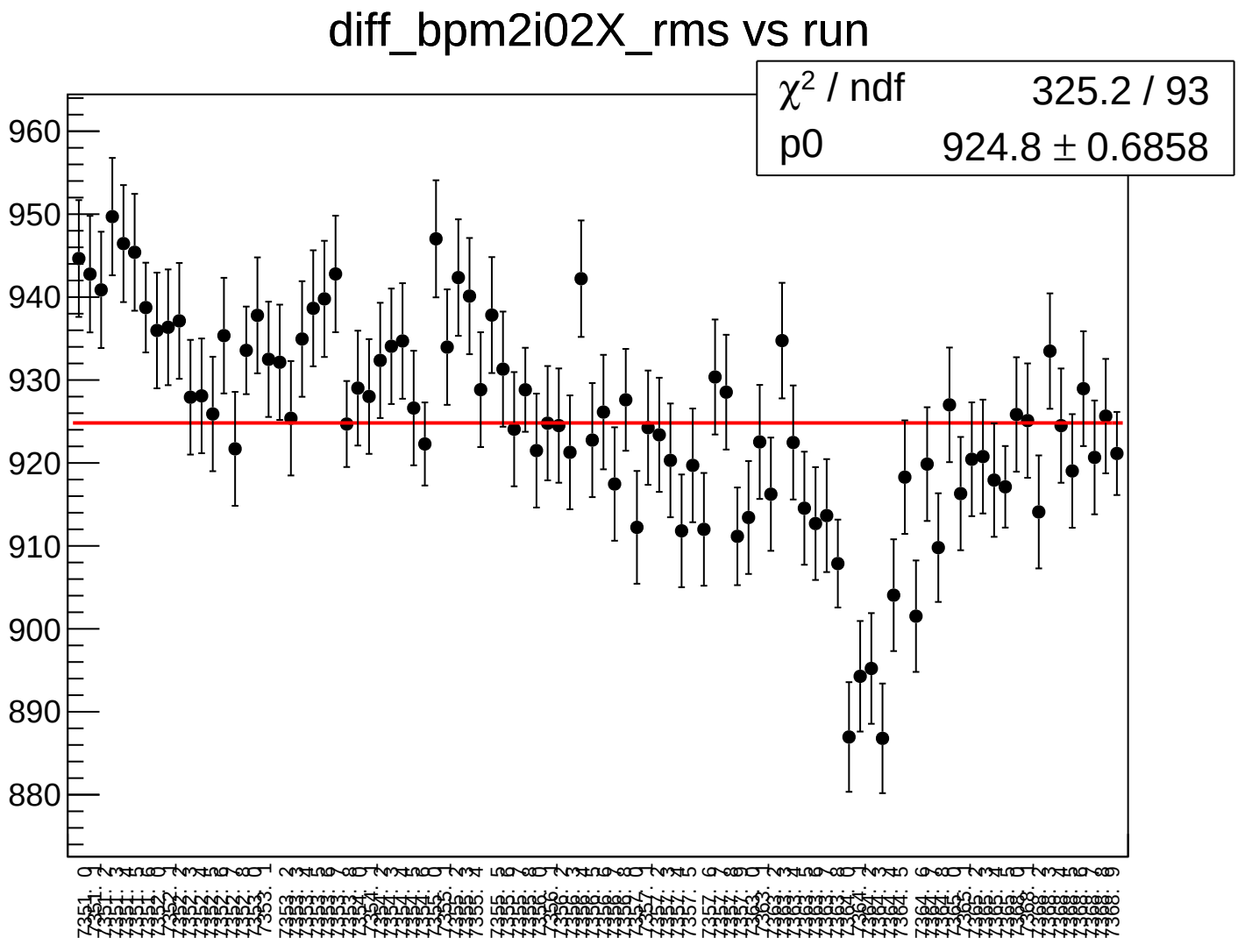

pull1D
Entries 94
Mean −0.6272
Std Dev 1.034
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

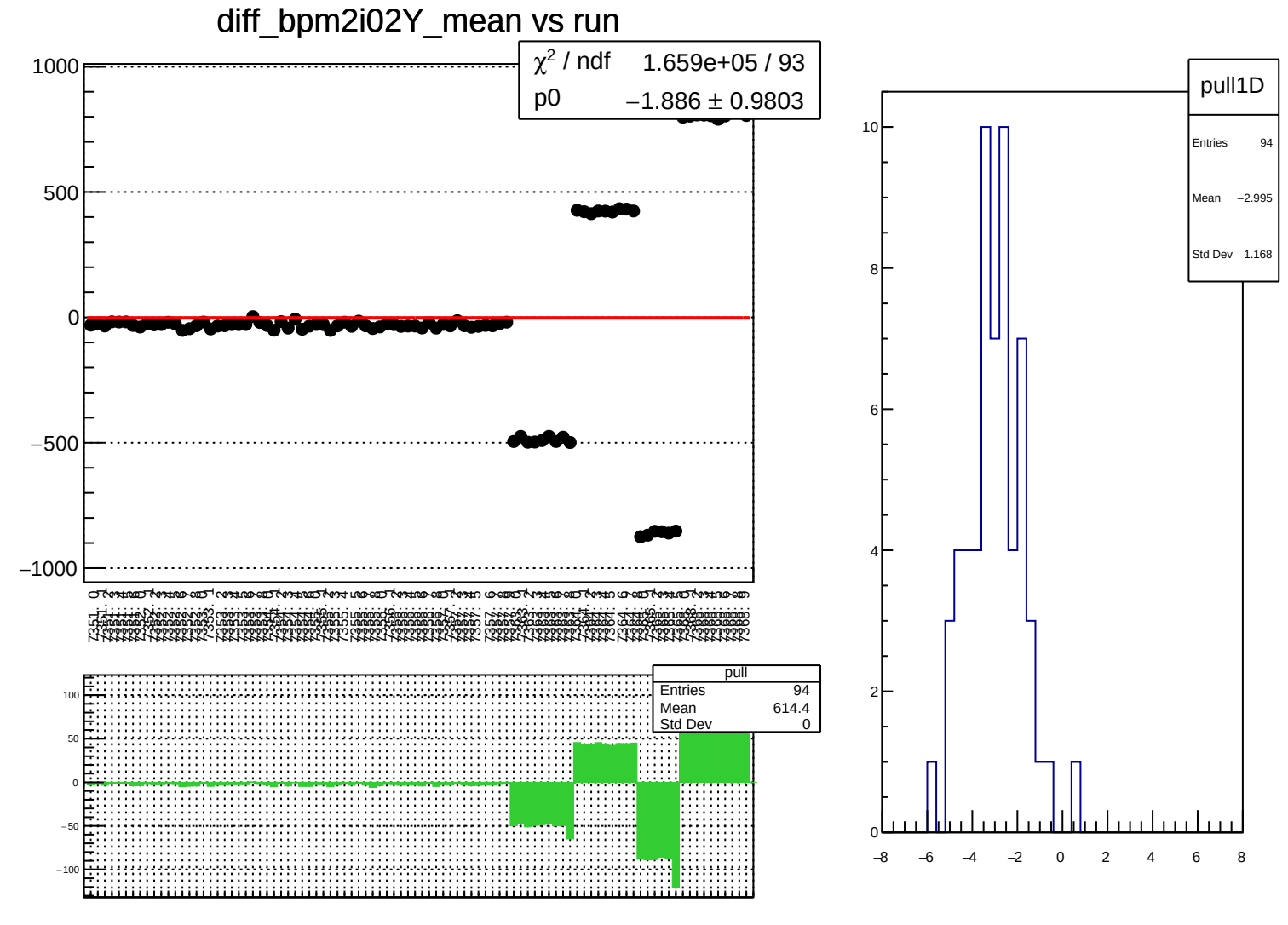

diff_bpm2i01X_rms vs run
χ² / ndf 236.6 / 93
p0 863.3 ± 0.6402
900
890
880
870
860
850
840
830
820

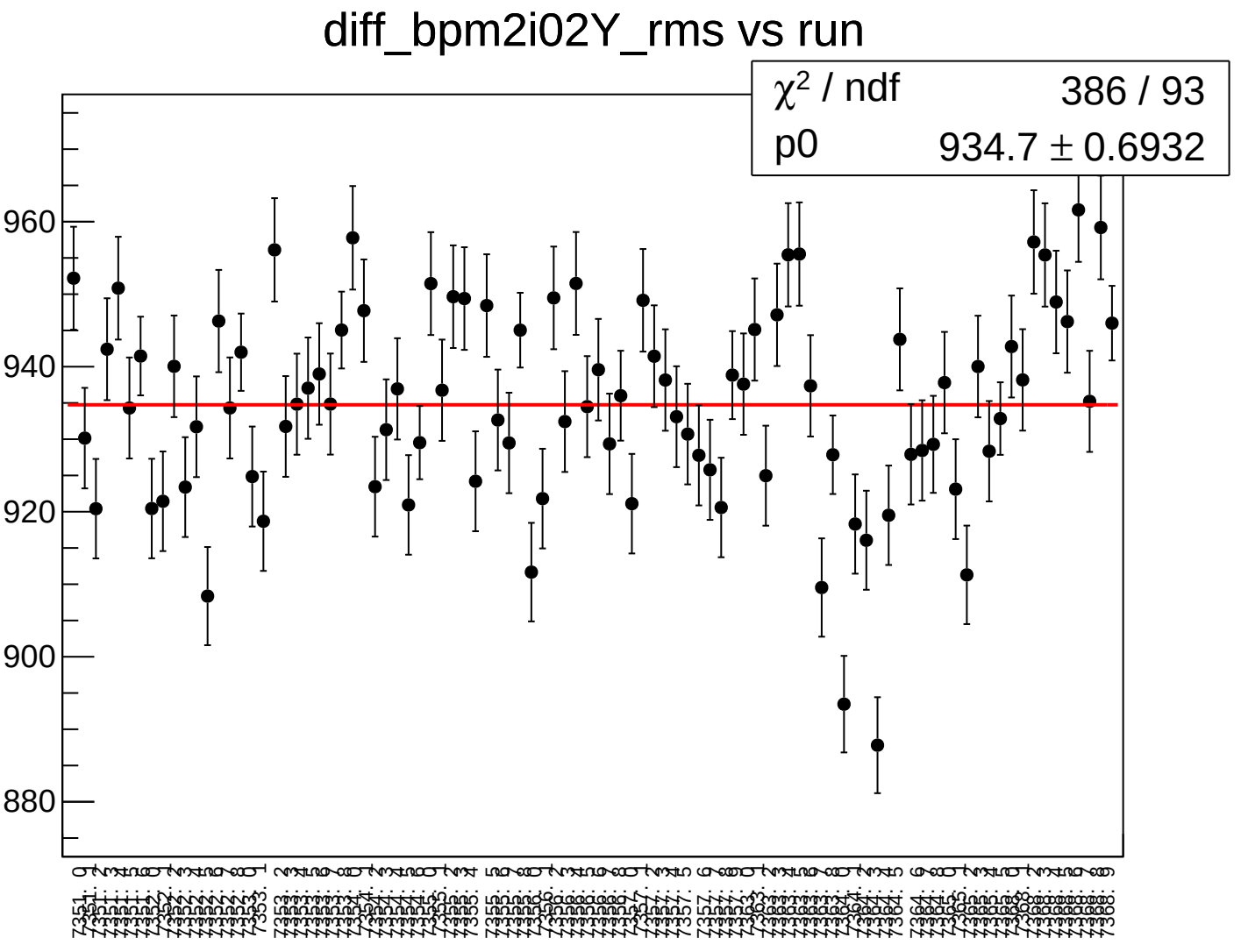

diff_bpm2i01Y_mean vs run
χ² / ndf 5084 / 93
p0 −3.553 ± 0.959
150
100
50
0
−50
−100
−150
pull
Entries 94
Mean 595.6
Std Dev 0
15
10
5
0
−5
−10
−15
pull1D
Entries 94
Mean −0.3967
Std Dev 0.9537
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

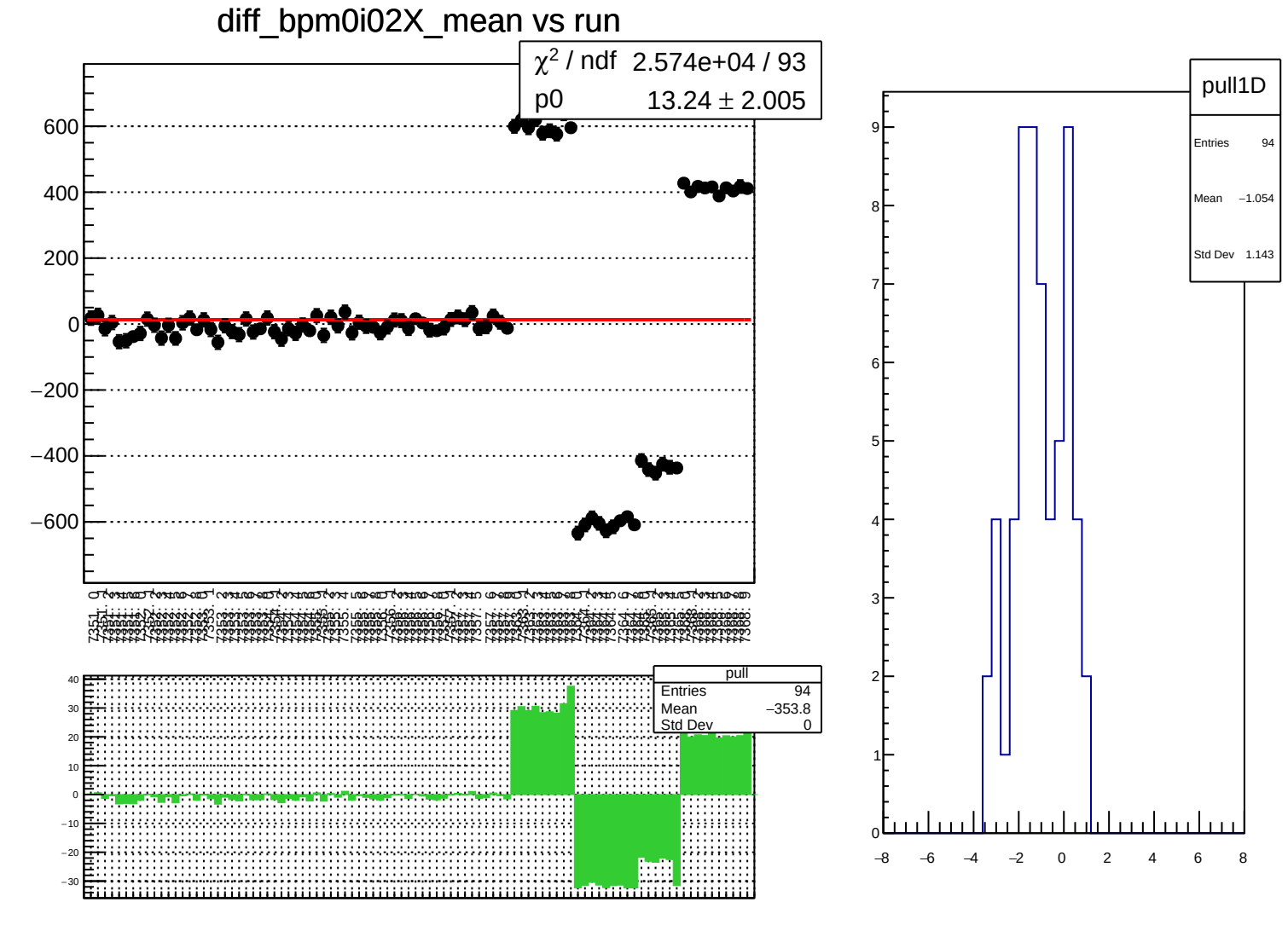

diff_bpm2i01Y_rms vs run
χ² / ndf 504.5 / 93
p0 914.3 ± 0.6781
960
940
920
900
880
860
840

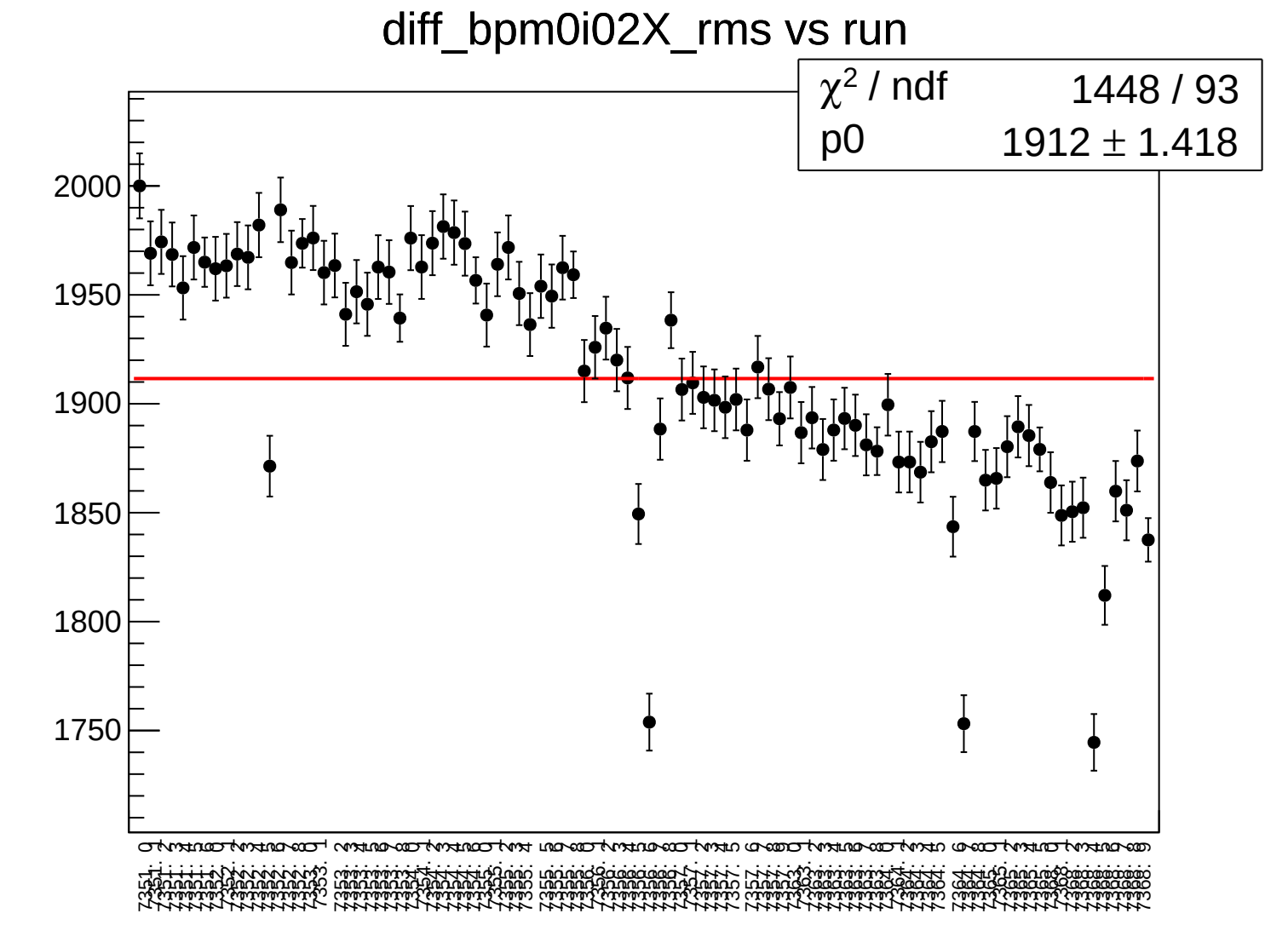

diff_bpm2i02X_mean vs run
χ² / ndf 1.811e+05 / 93
p0 6.857 ± 0.9699
1000
500
0
−500
−1000
pull
Entries 94
Mean −52.99
Std Dev 0
100
50
0
−50
−100
pull1D
Entries 94
Mean −1.681
Std Dev 1.135
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

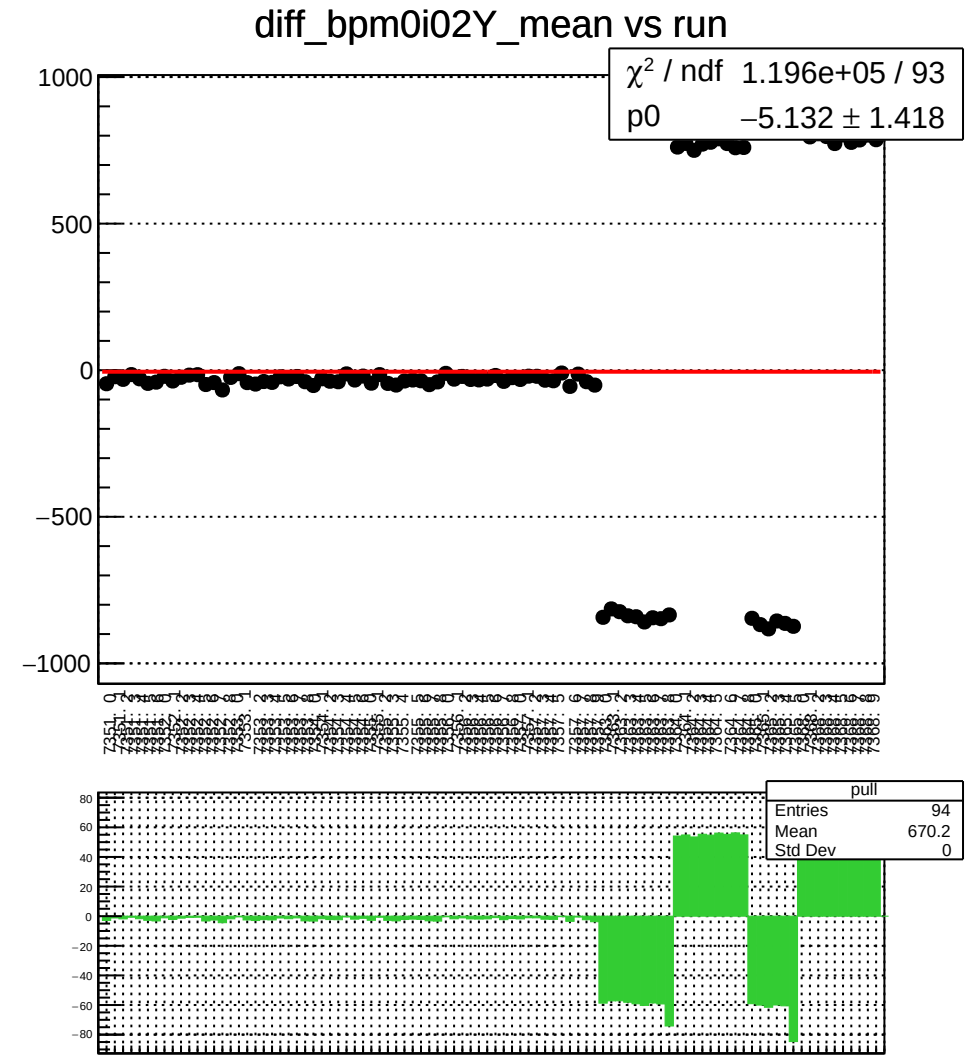

diff_bpm2i02X_rms vs run
χ² / ndf 325.2 / 93
p0 924.8 ± 0.6858
960
950
940
930
920
910
900
890
880

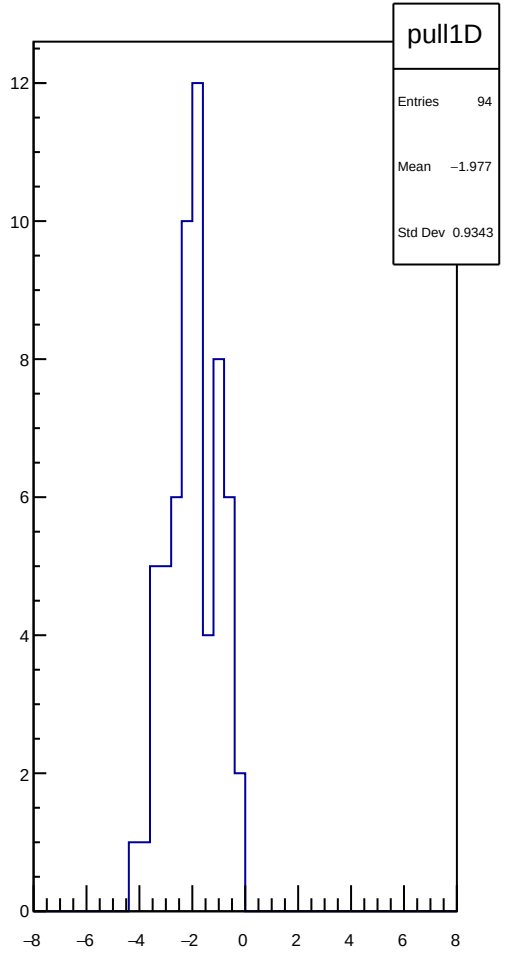

diff_bpm2i02Y_mean vs run
χ² / ndf 1.659e+05 / 93
p0 −1.886 ± 0.9803
1000
500
0
−500
−1000
pull
Entries 94
Mean 614.4
Std Dev 0
100
50
0
−50
−100
pull1D
Entries 94
Mean −2.995
Std Dev 1.168
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

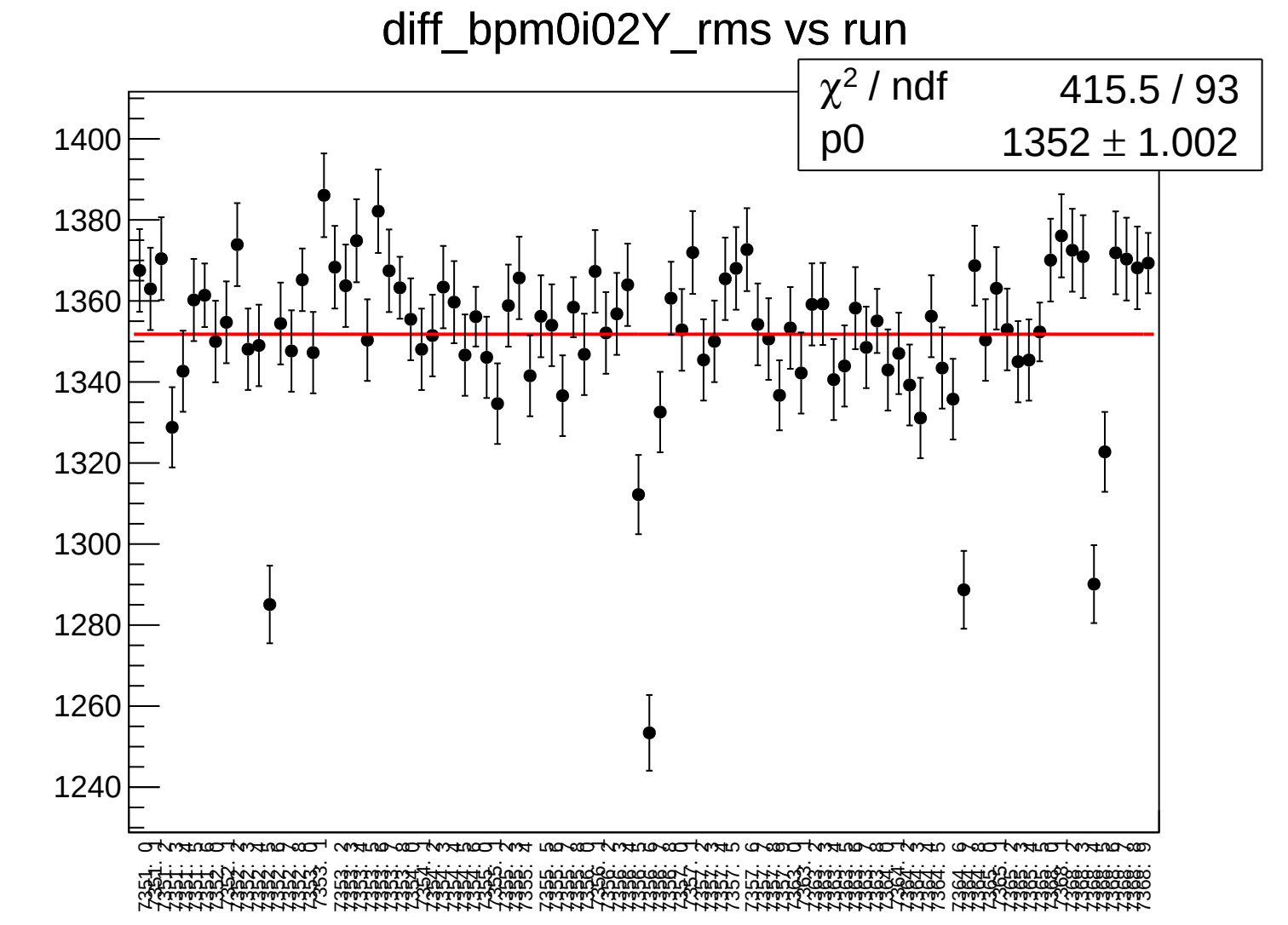

diff_bpm2i02Y_rms vs run
χ² / ndf 386 / 93
p0 934.7 ± 0.6932
960
940
920
900
880

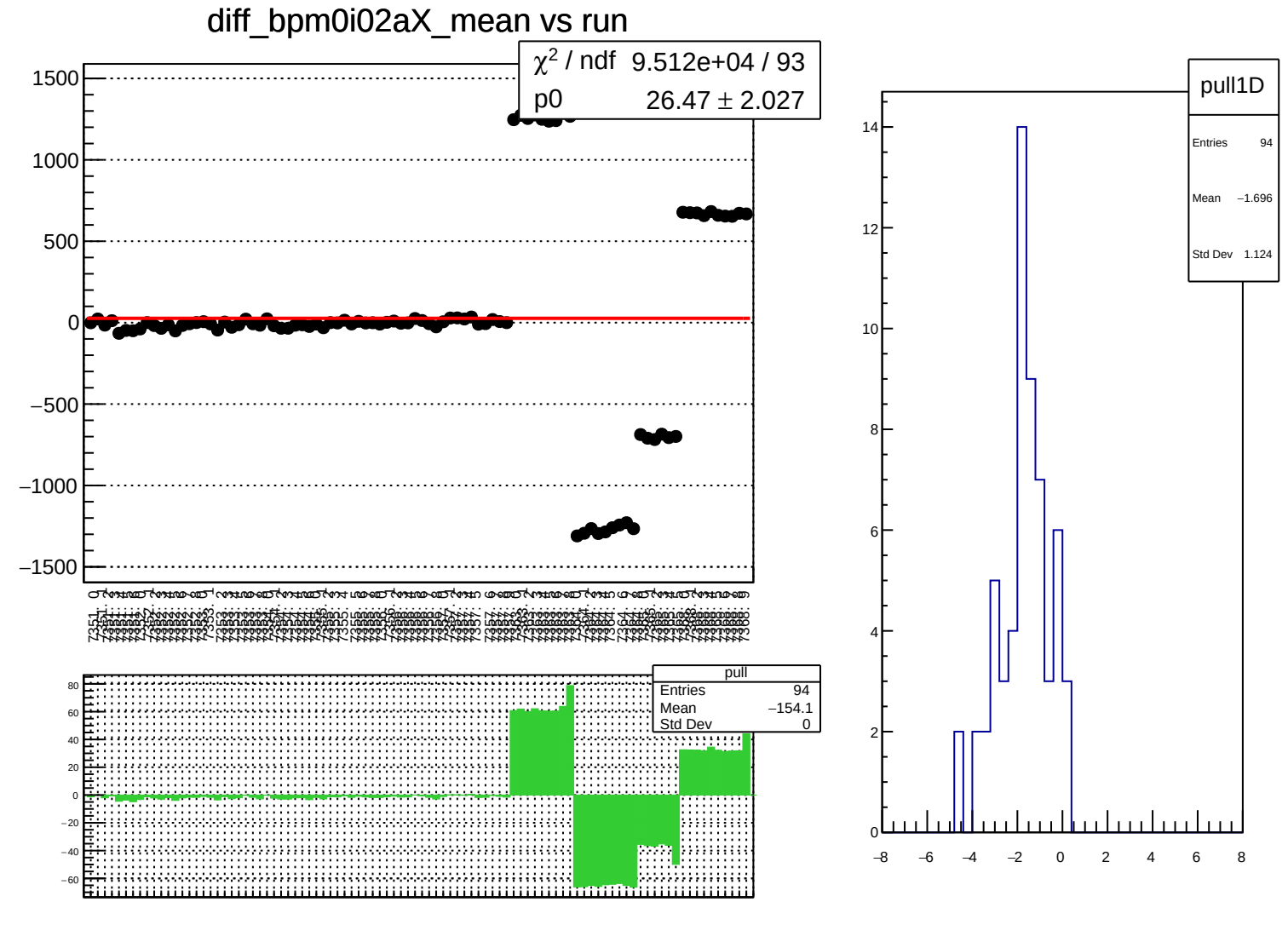

diff_bpm0i02X_mean vs run
χ² / ndf 2.574e+04 / 93
p0 13.24 ± 2.005
600
400
200
0
−200
−400
−600
pull
Entries 94
Mean −353.8
Std Dev 0
40
30
20
10
0
−10
−20
−30
pull1D
Entries 94
Mean −1.054
Std Dev 1.143
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

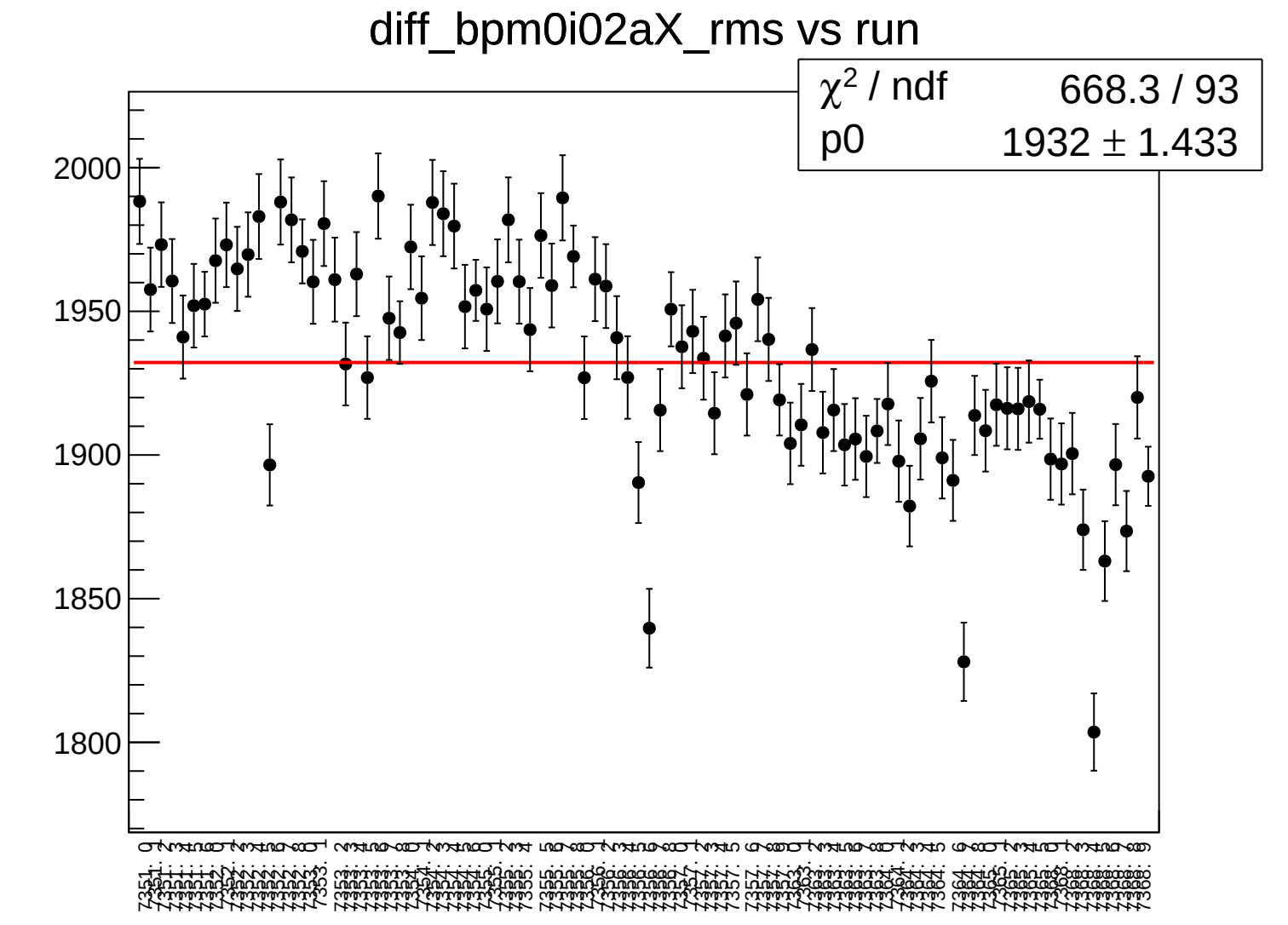

diff_bpm0i02X_rms vs run
χ² / ndf 1448 / 93
p0 1912 ± 1.418
2000
1950
1900
1850
1800
1750

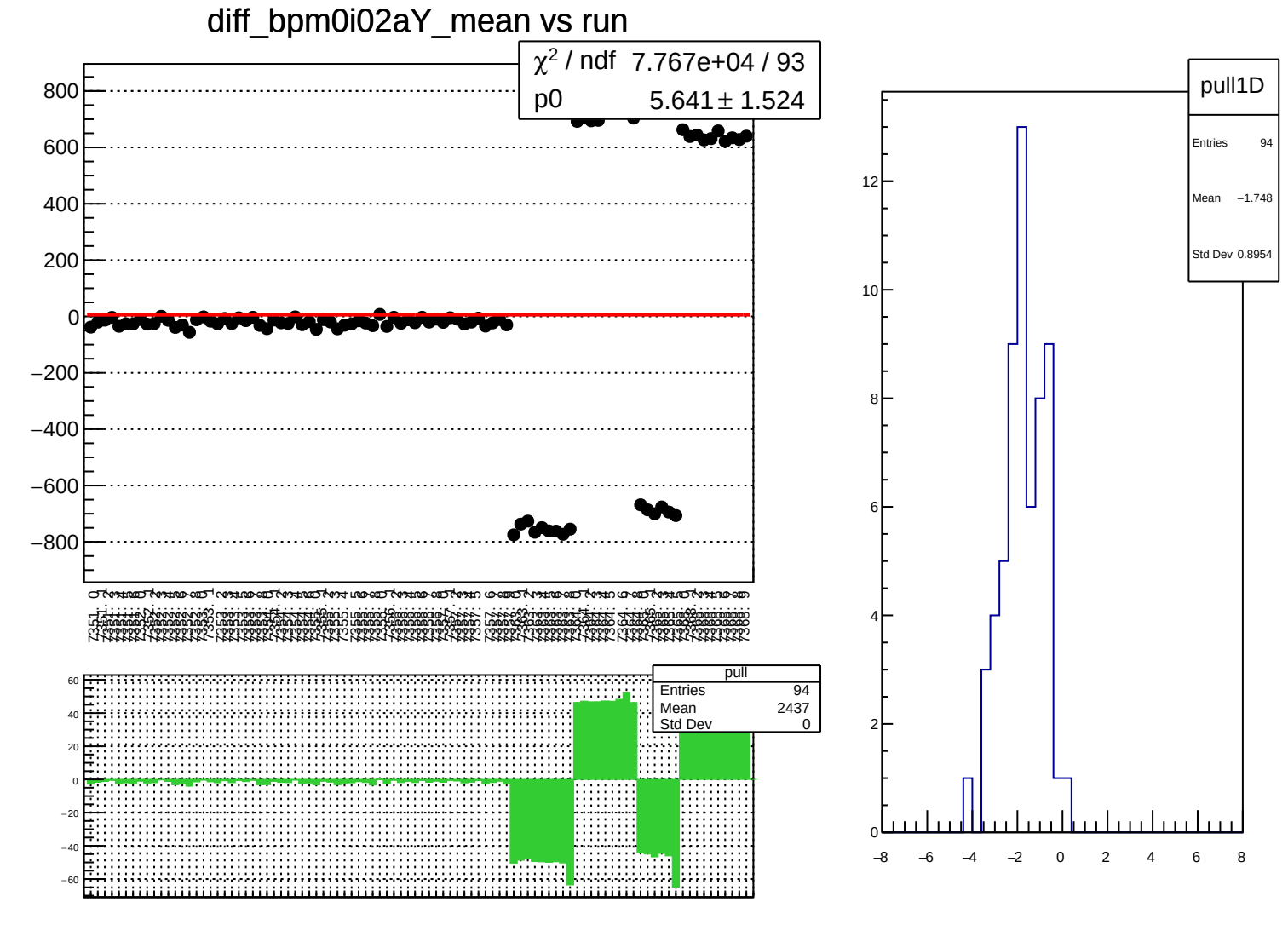

diff_bpm0i02Y_mean vs run
χ² / ndf 1.196e+05 / 93
p0 −5.132 ± 1.418
1000
500
0
−500
−1000
pull
Entries 94
Mean 670.2
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80

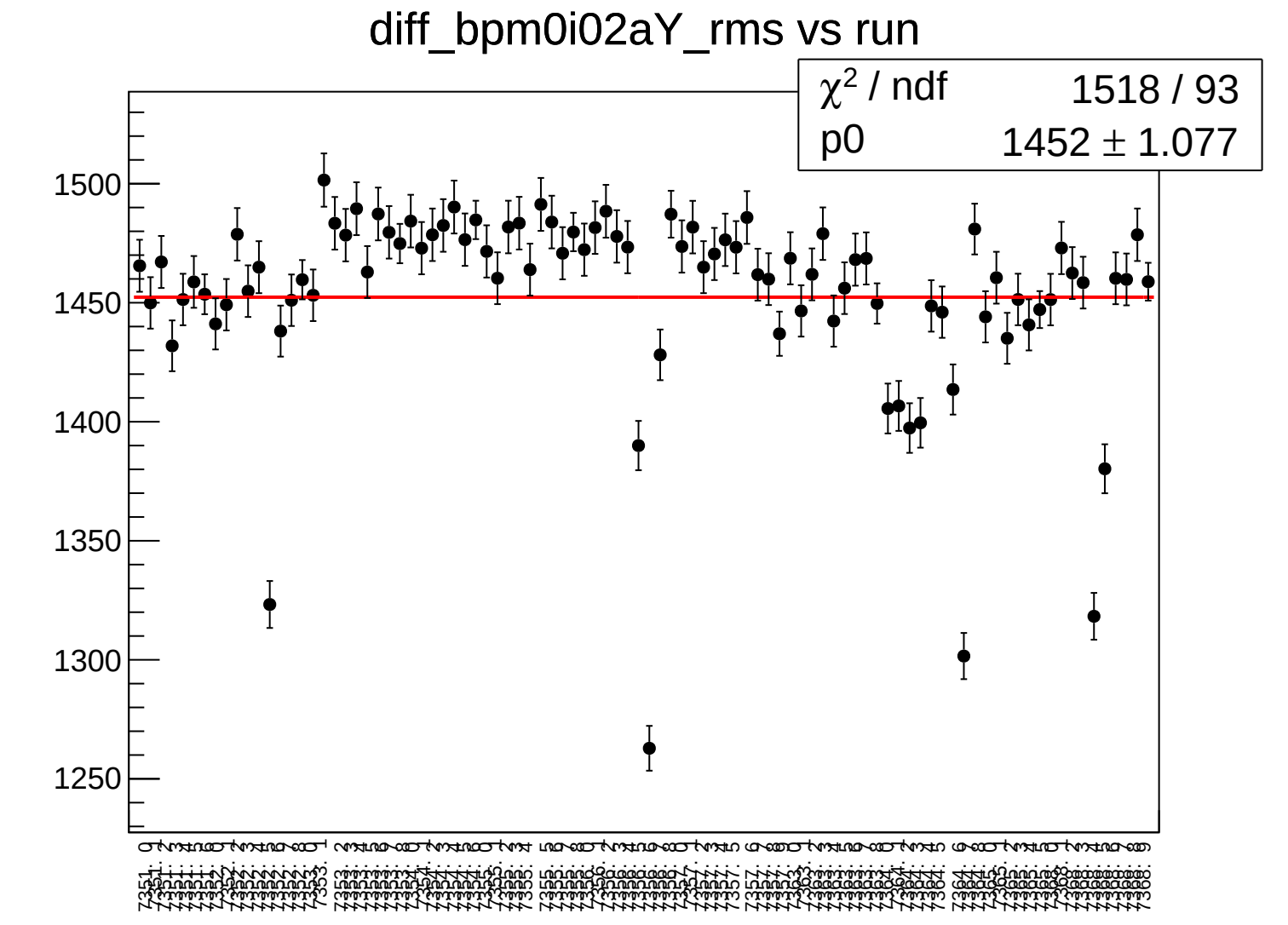

pull1D
Entries 94
Mean −1.977
Std Dev 0.9343
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

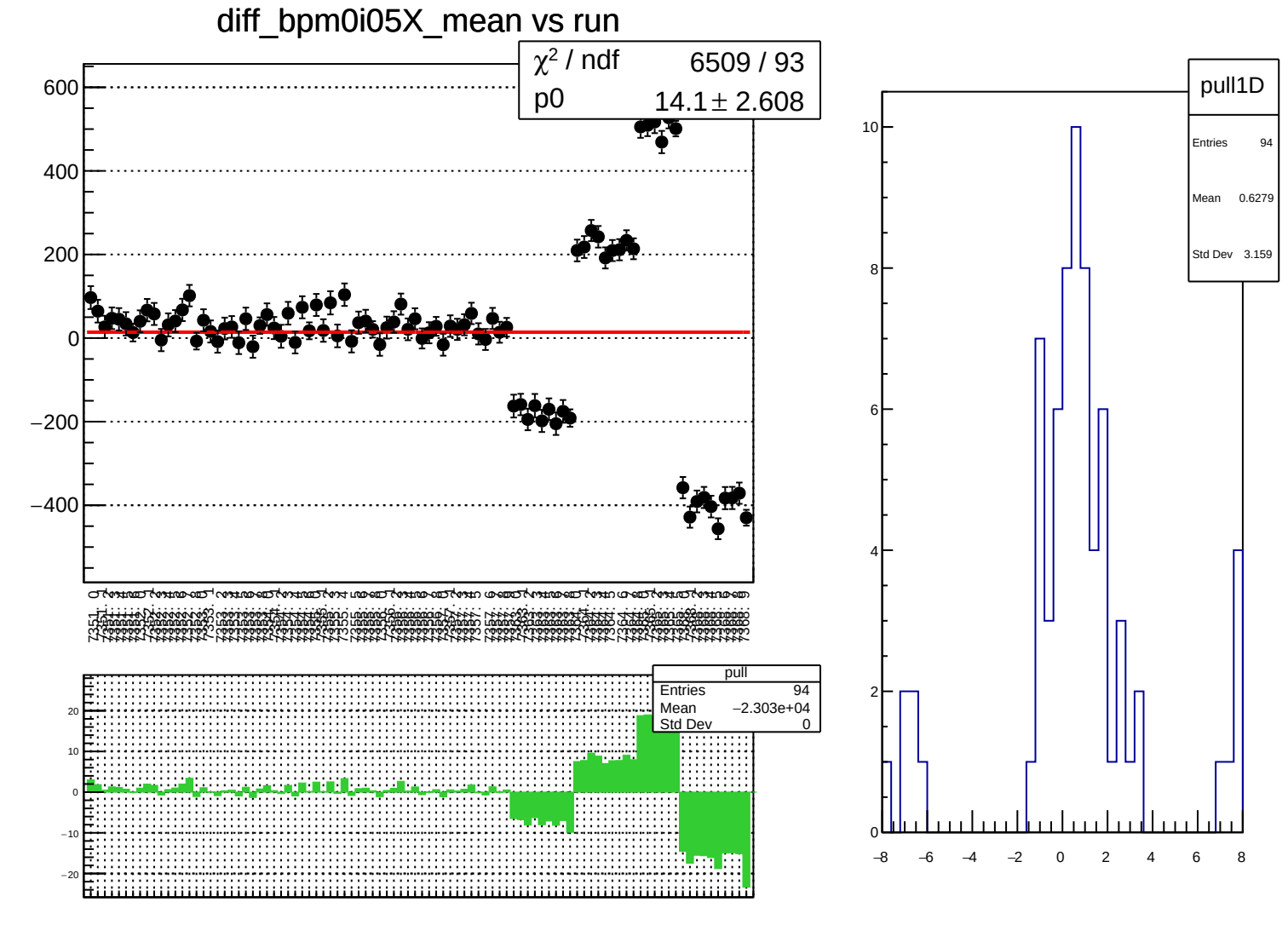

diff_bpm0i02Y_rms vs run
χ² / ndf 415.5 / 93
p0 1352 ± 1.002
1400
1380
1360
1340
1320
1300
1280
1260
1240

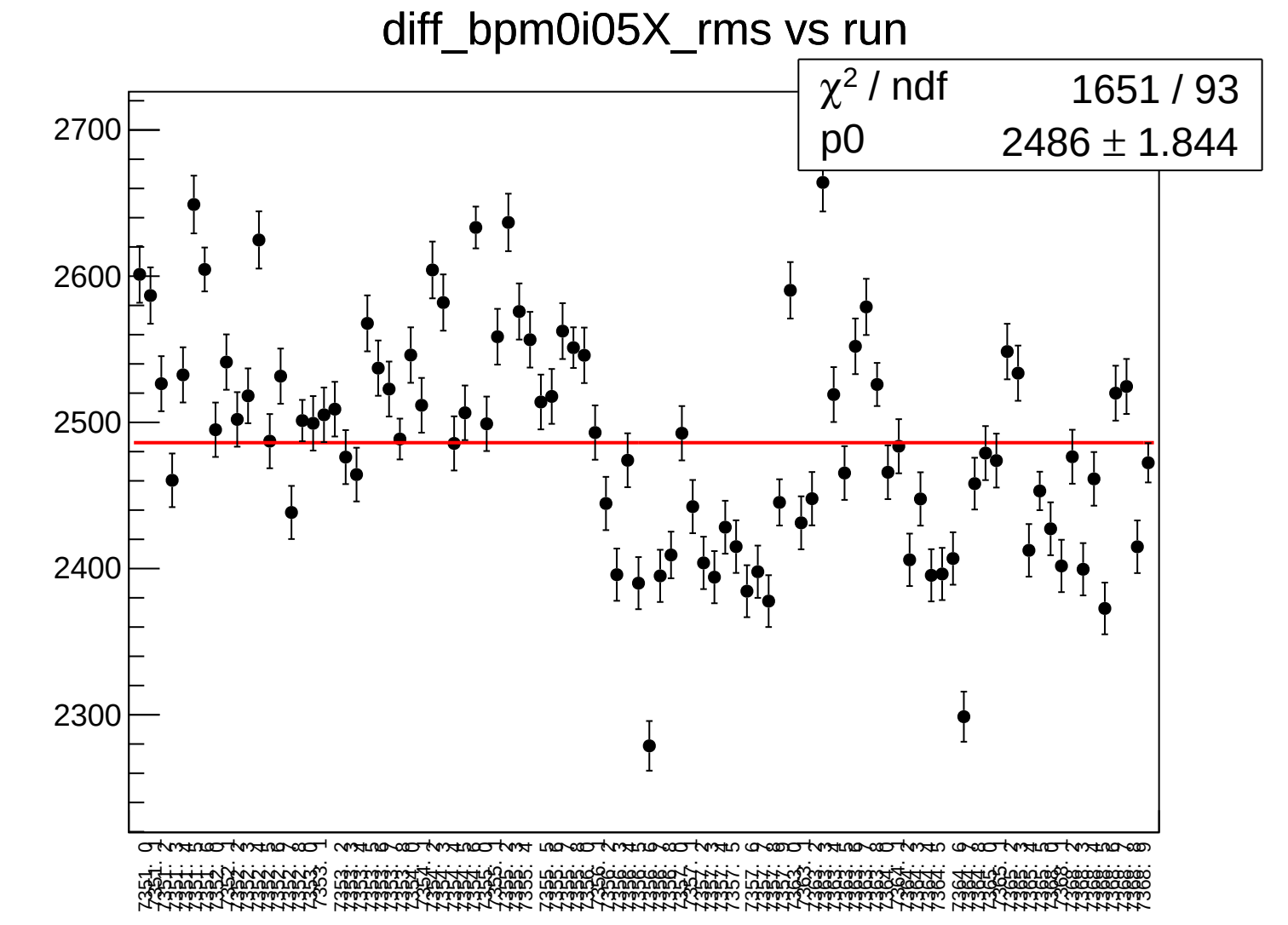

diff_bpm0i02aX_mean vs run
χ² / ndf 9.512e+04 / 93
p0 26.47 ± 2.027
1500
1000
500
0
−500
−1000
−1500
pull
Entries 94
Mean −154.1
Std Dev 0
80
60
40
20
0
−20
−40
−60
pull1D
Entries 94
Mean −1.696
Std Dev 1.124
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

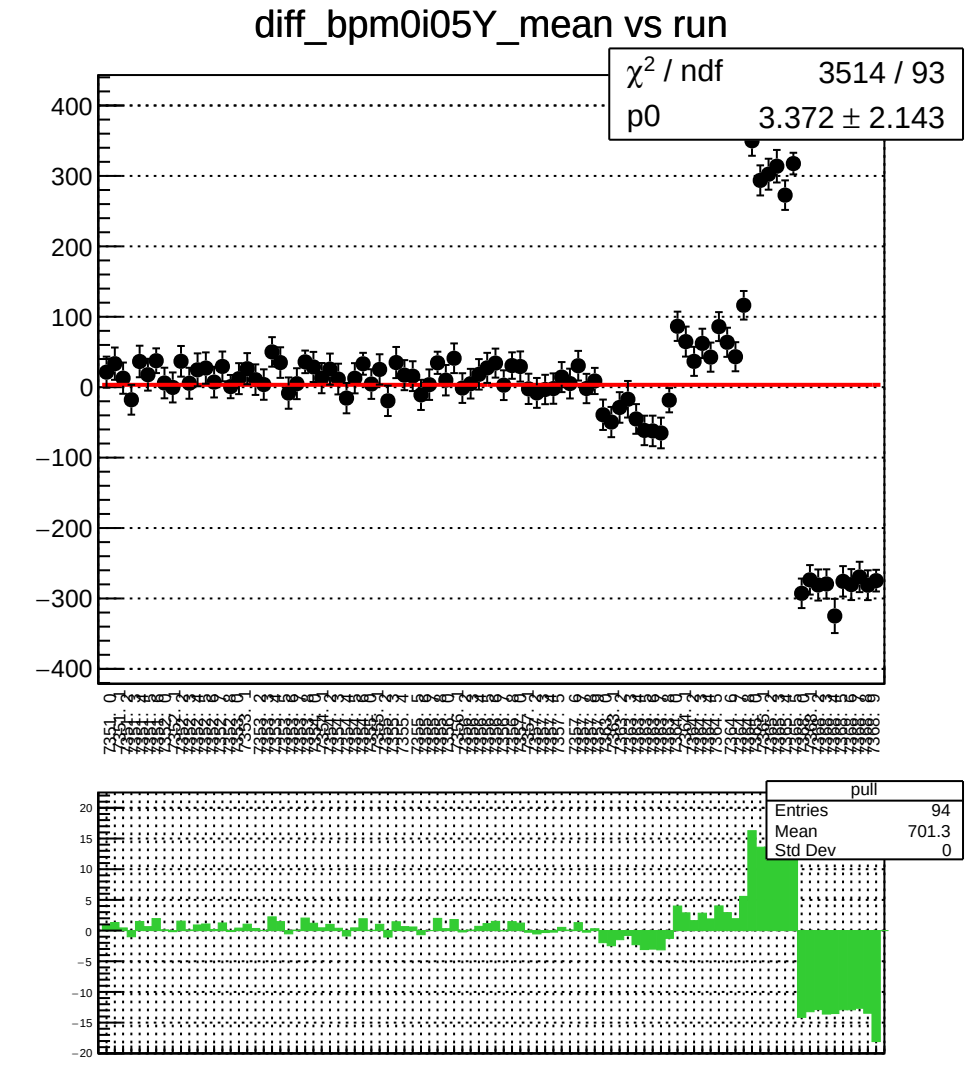

diff_bpm0i02aX_rms vs run
χ^2 / ndf 668.3 / 93
p0 1932 ± 1.433
2000
1950
1900
1850
1800

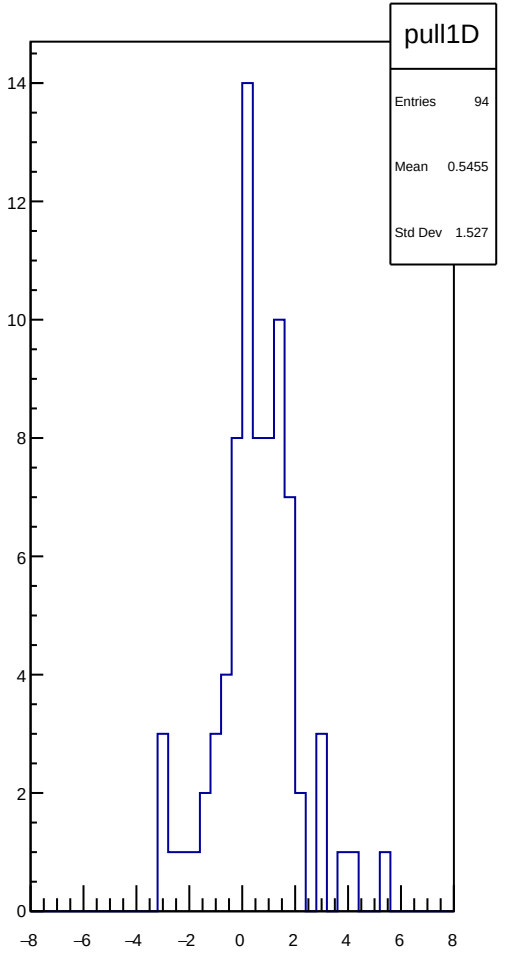

diff_bpm0i02aY_mean vs run
χ² / ndf 7.767e+04 / 93
p0 5.641 ± 1.524
pull
Entries 94
Mean 2437
Std Dev 0
pull1D
Entries 94
Mean −1.748
Std Dev 0.8954

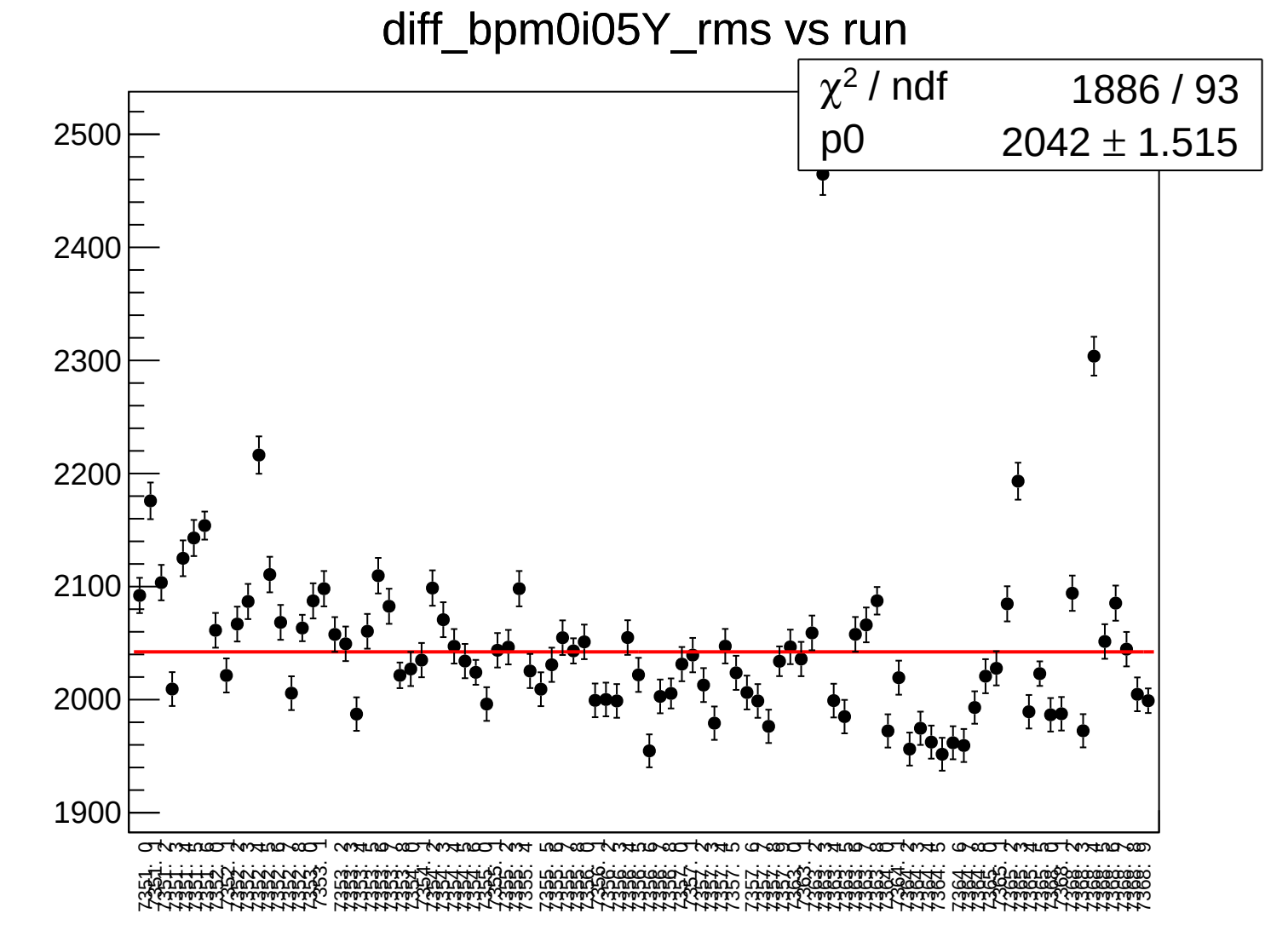

diff_bpm0i02aY_rms vs run
χ² / ndf 1518 / 93
p0 1452 ± 1.077
1500
1450
1400
1350
1300
1250

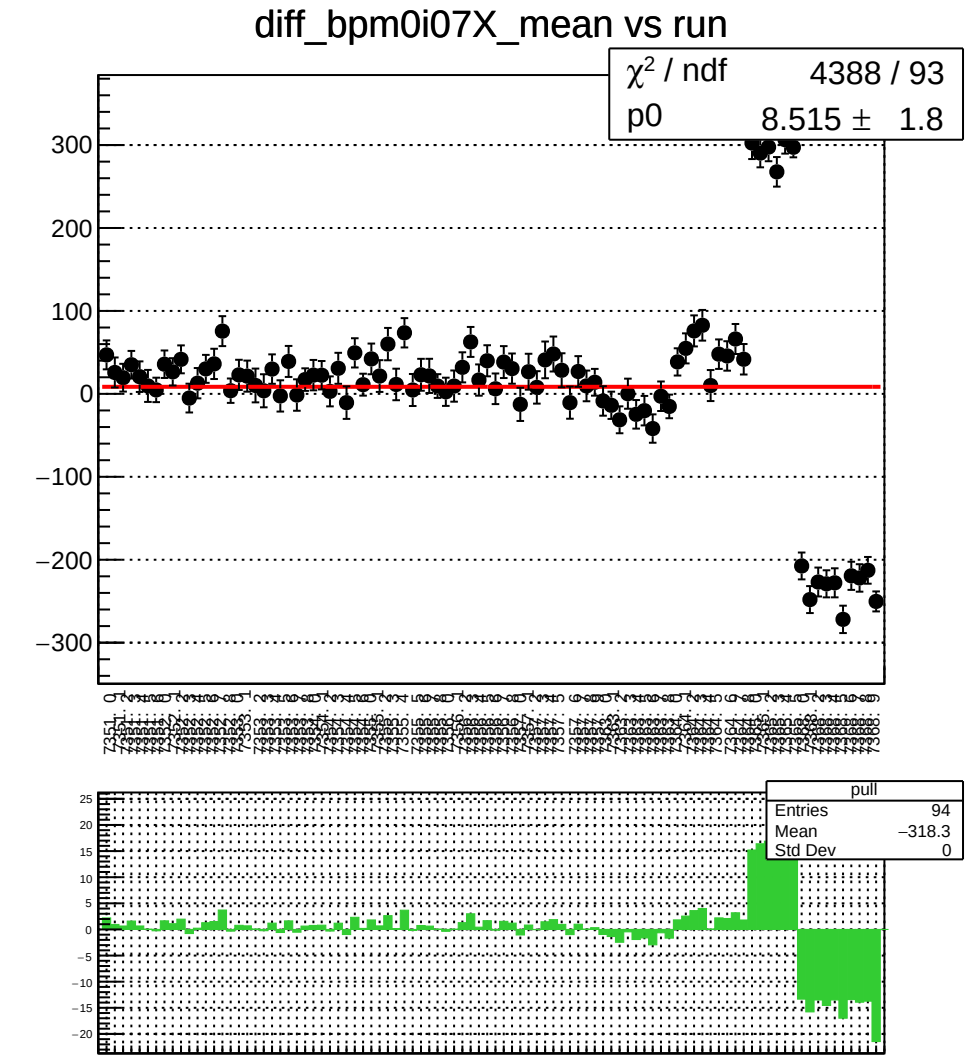

diff_bpm0i05X_mean vs run
χ² / ndf 6509 / 93
p0 14.1 ± 2.608
600
400
200
0
−200
−400
pull
Entries 94
Mean −2.303e+04
Std Dev 0
20
10
0
−10
−20
pull1D
Entries 94
Mean 0.6279
Std Dev 3.159
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

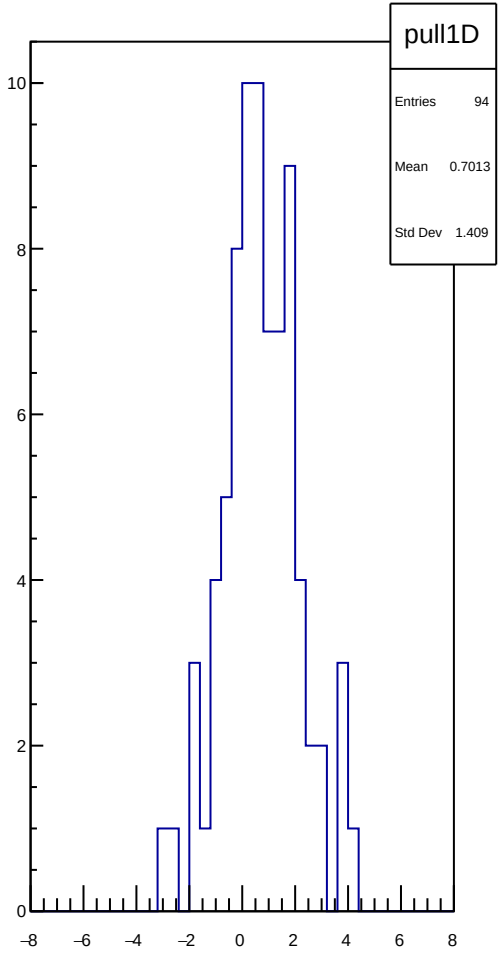

diff_bpm0i05X_rms vs run
χ^2 / ndf 1651 / 93
p0 2486 ± 1.844
2700
2600
2500
2400
2300

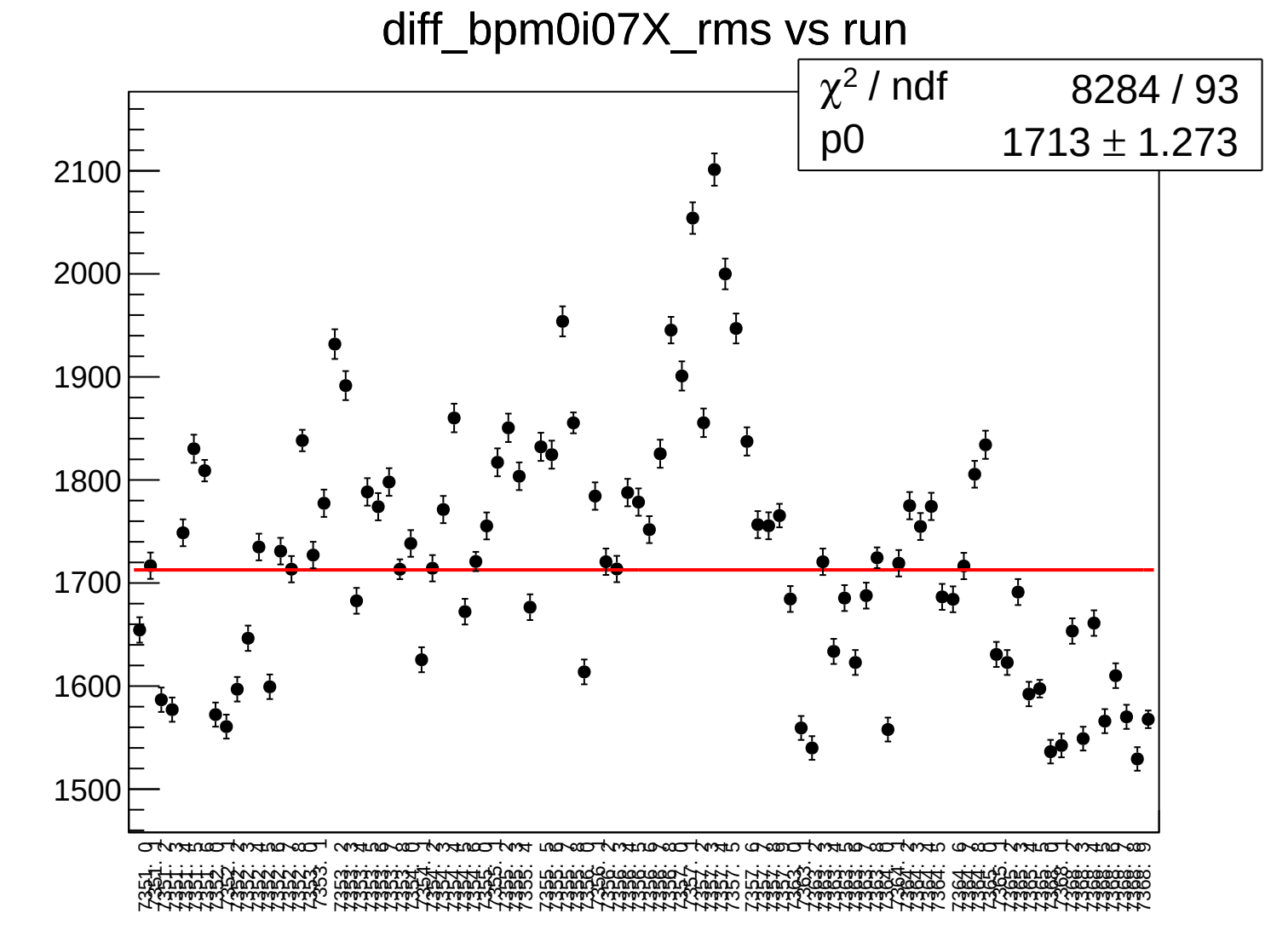

diff_bpm0i05Y_mean vs run
χ² / ndf 3514 / 93
p0 3.372 ± 2.143
pull
Entries 94
Mean 701.3
Std Dev 0

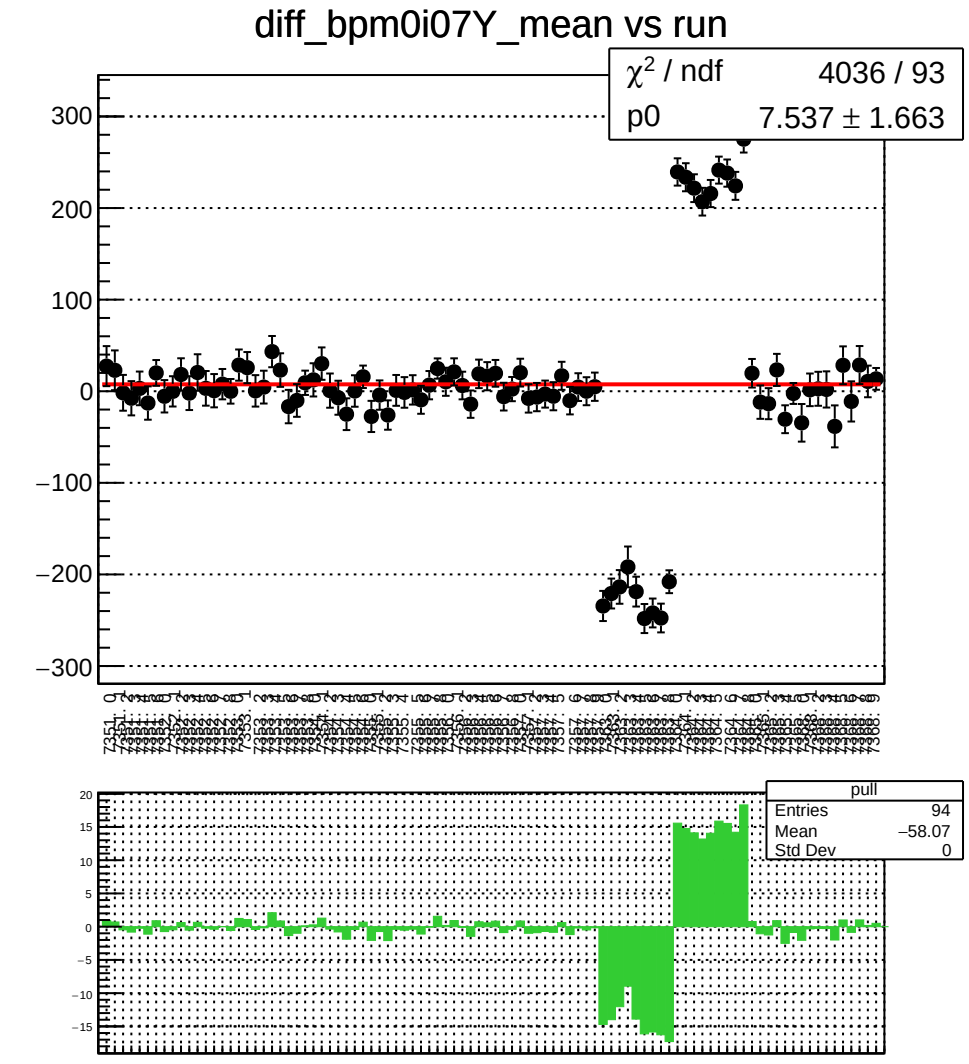

pull1D
Entries 94
Mean 0.5455
Std Dev 1.527

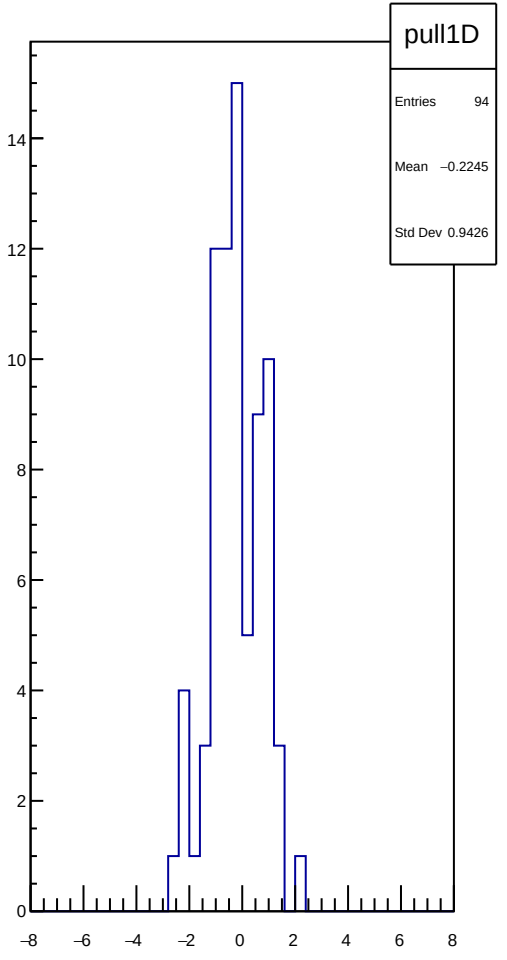

diff_bpm0i05Y_rms vs run
χ² / ndf 1886 / 93
p0 2042 ± 1.515
2500
2400
2300
2200
2100
2000
1900

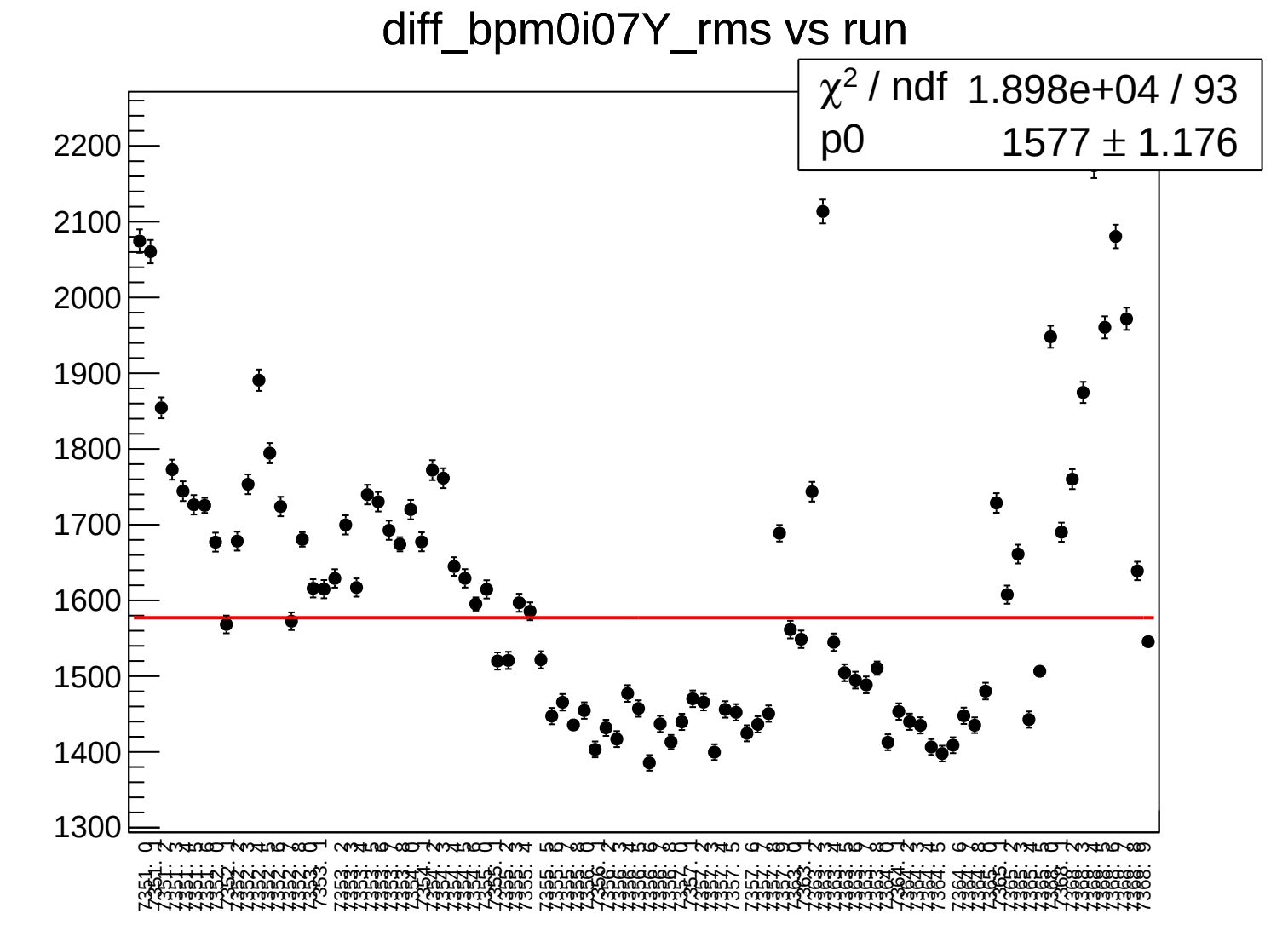

diff_bpm0i07X_mean vs run
χ² / ndf 4388 / 93
p0 8.515 ± 1.8
300
200
100
0
−100
−200
−300
pull
Entries 94
Mean −318.3
Std Dev 0
25
20
15
10
5
0
−5
−10
−15
−20

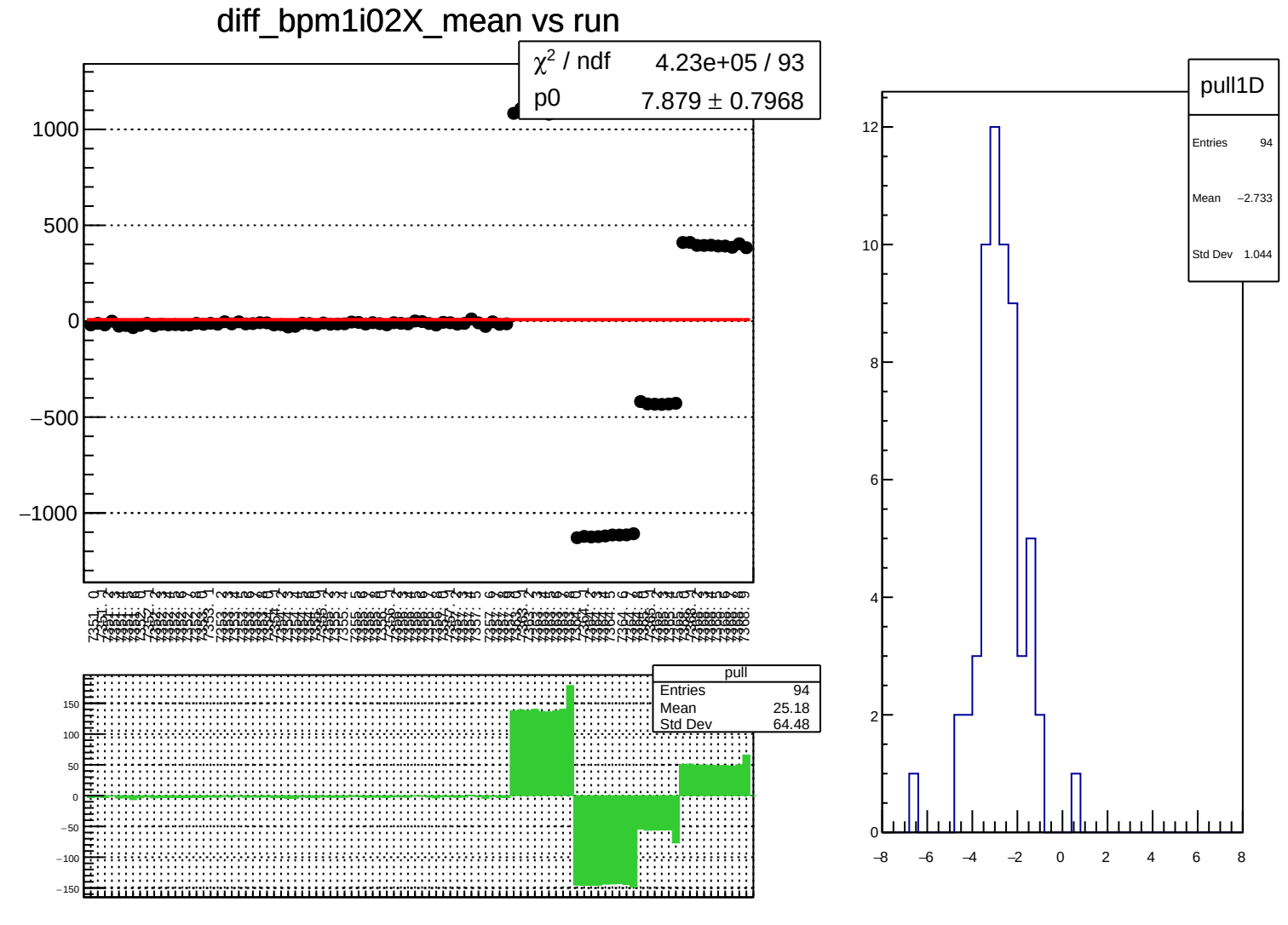

pull1D
Entries 94
Mean 0.7013
Std Dev 1.409
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

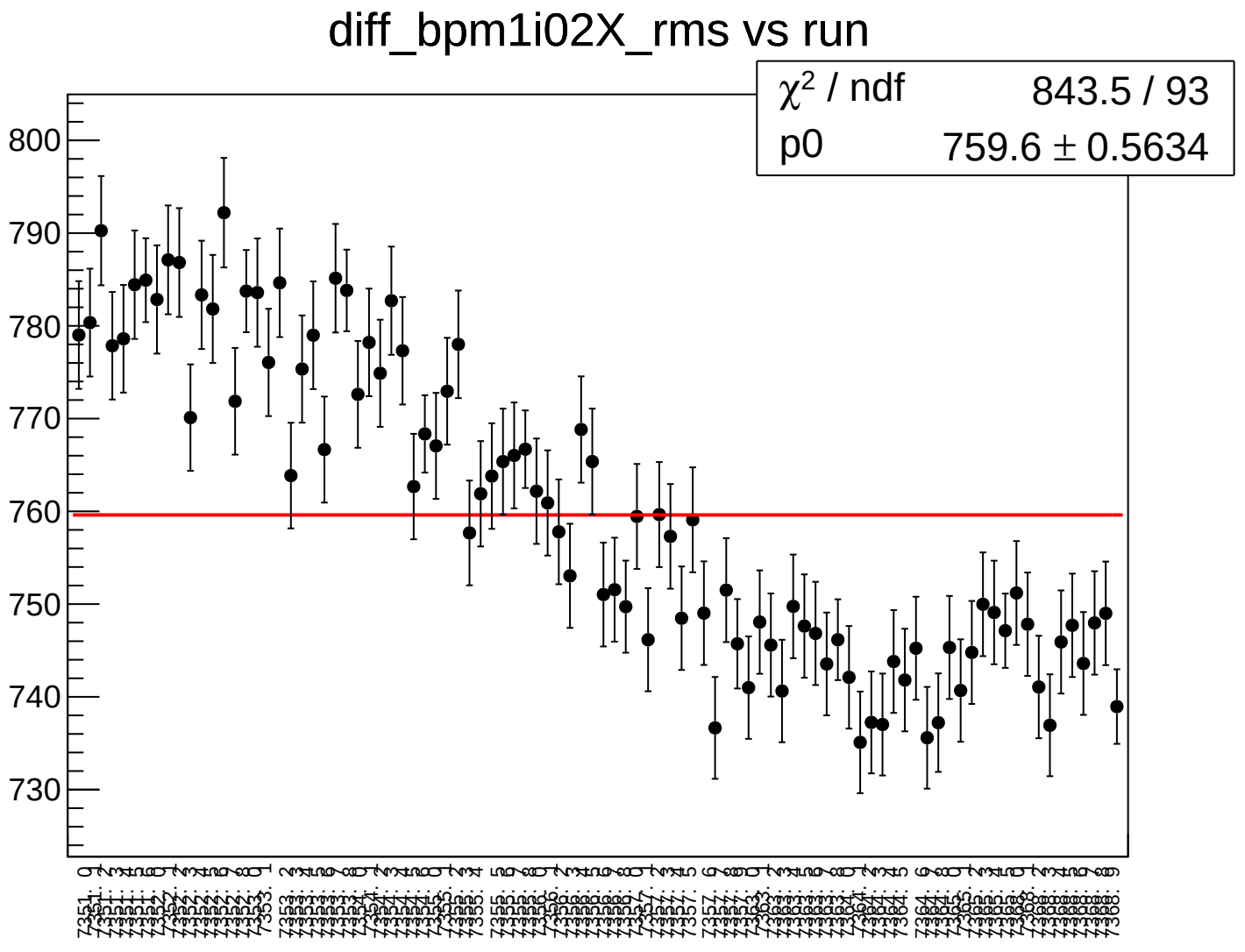

diff_bpm0i07X_rms vs run
χ² / ndf 8284 / 93
p0 1713 ± 1.273
2100
2000
1900
1800
1700
1600
1500

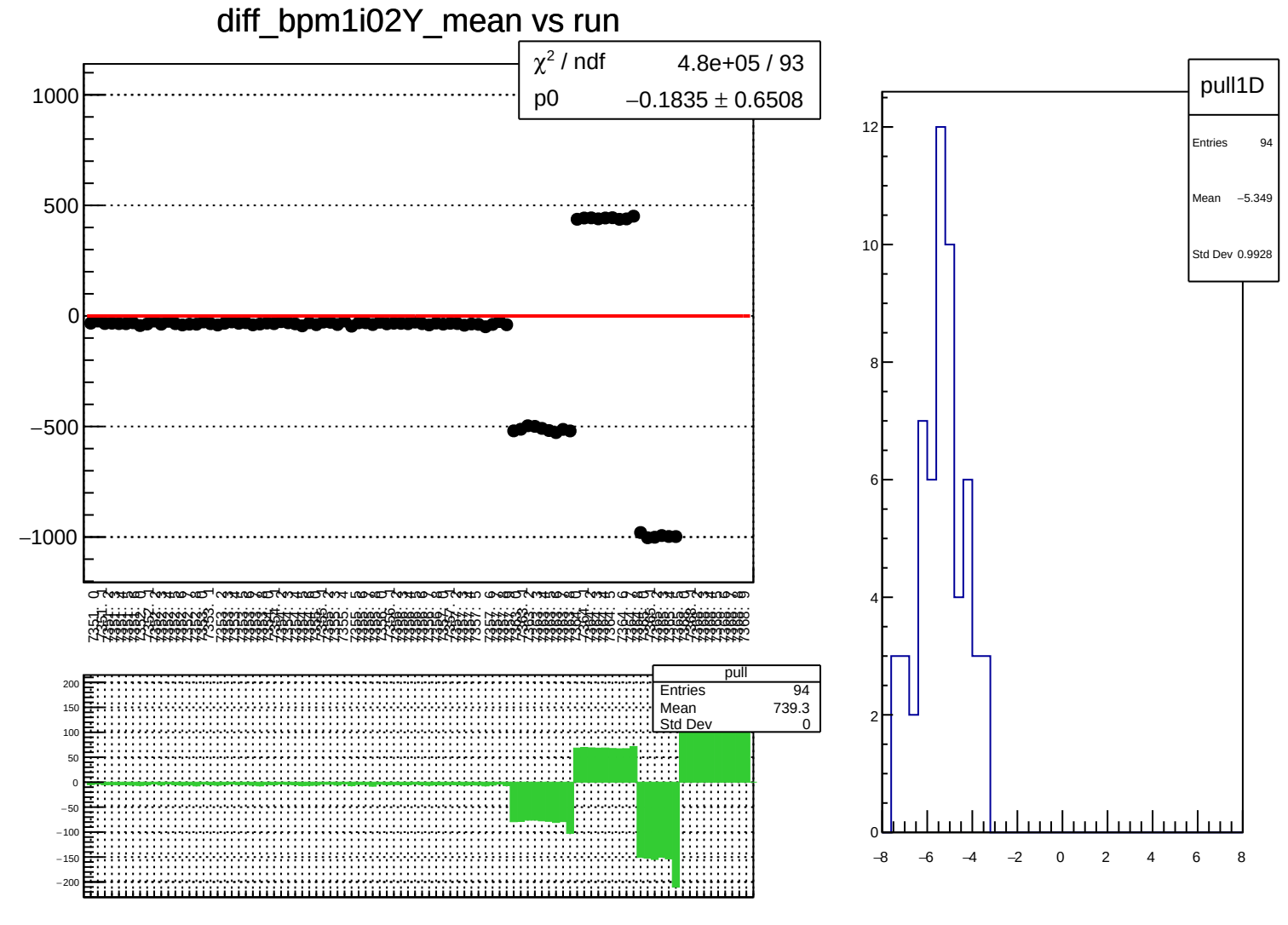

diff_bpm0i07Y_mean vs run
χ² / ndf 4036 / 93
p0 7.537 ± 1.663
pull
Entries 94
Mean −58.07
Std Dev 0

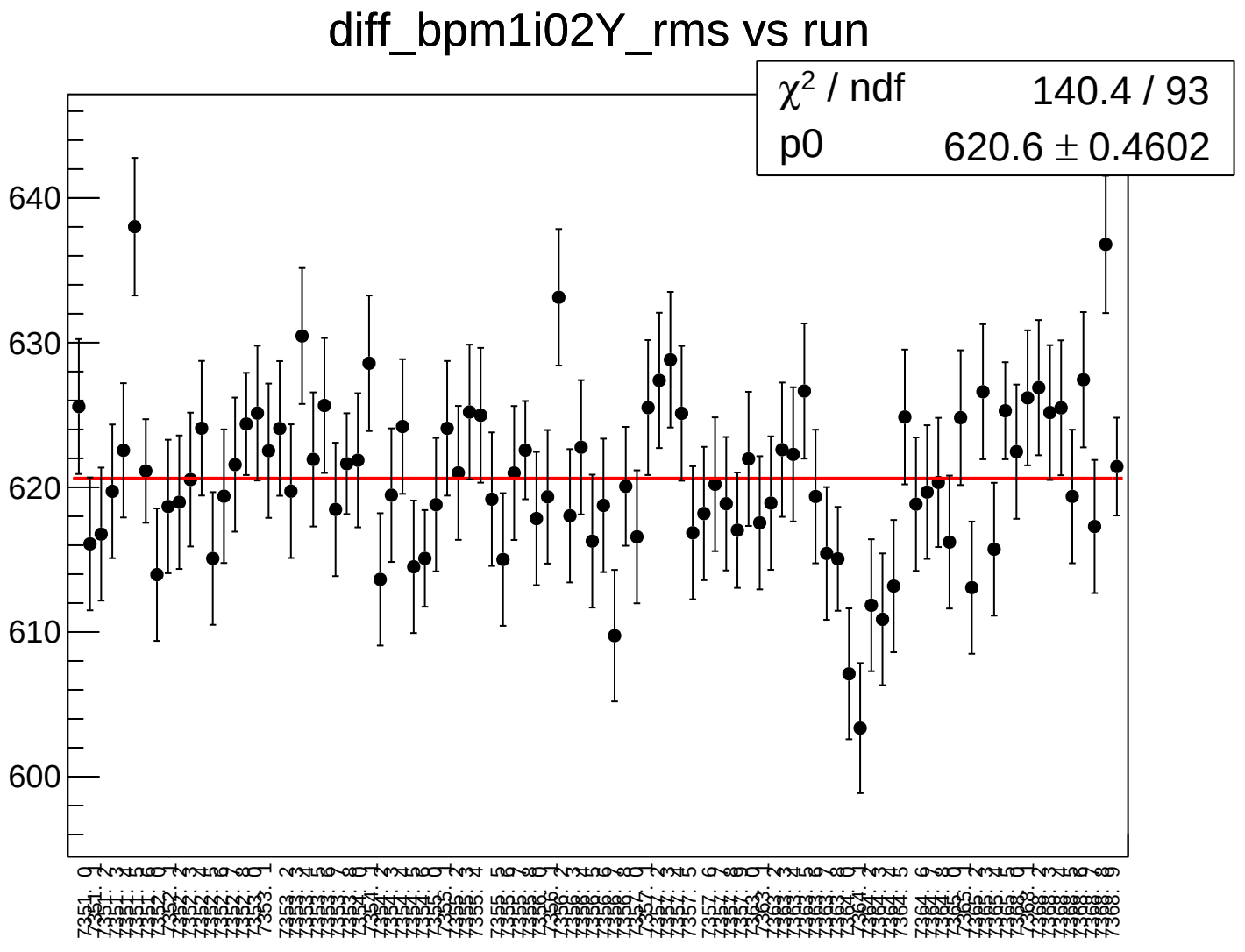

pull1D
Entries 94
Mean −0.2245
Std Dev 0.9426

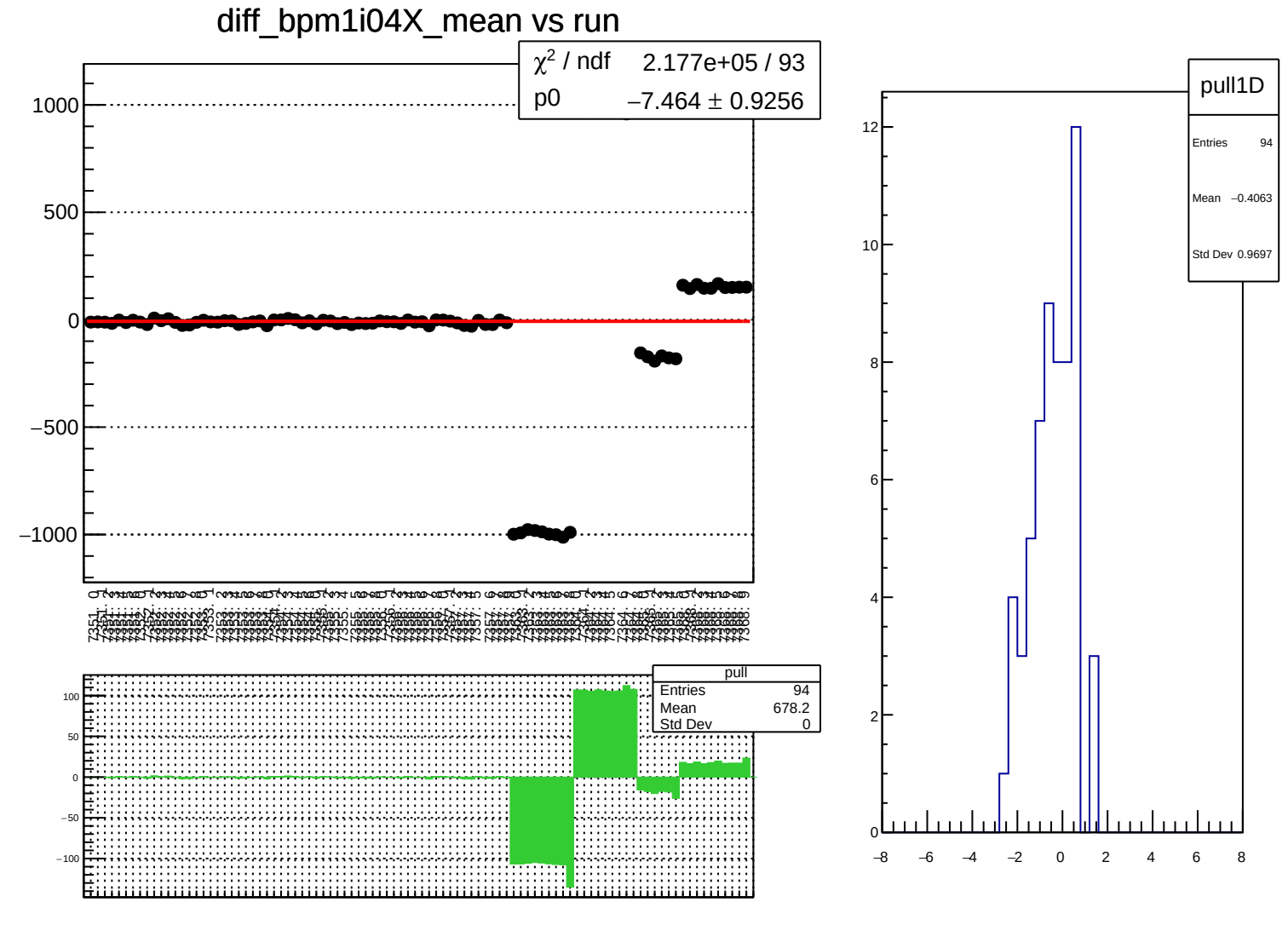

diff_bpm0i07Y_rms vs run
χ² / ndf 1.898e+04 / 93
p0 1577 ± 1.176
2200
2100
2000
1900
1800
1700
1600
1500
1400
1300

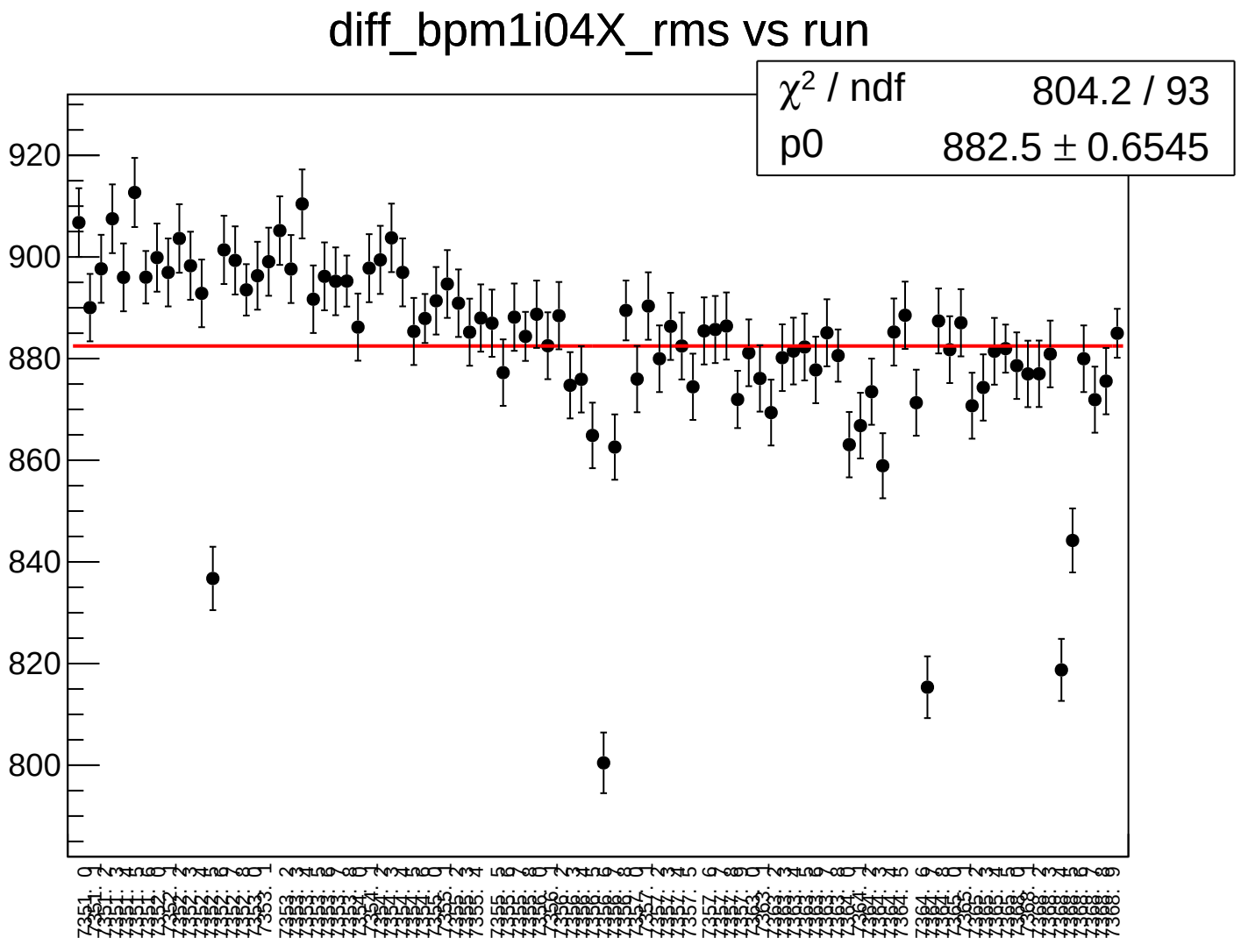

diff_bpm1i02X_mean vs run
χ² / ndf 4.23e+05 / 93
p0 7.879 ± 0.7968
1000
500
0
−500
−1000
pull
Entries 94
Mean 25.18
Std Dev 64.48
150
100
50
0
−50
−100
−150
pull1D
Entries 94
Mean −2.733
Std Dev 1.044
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

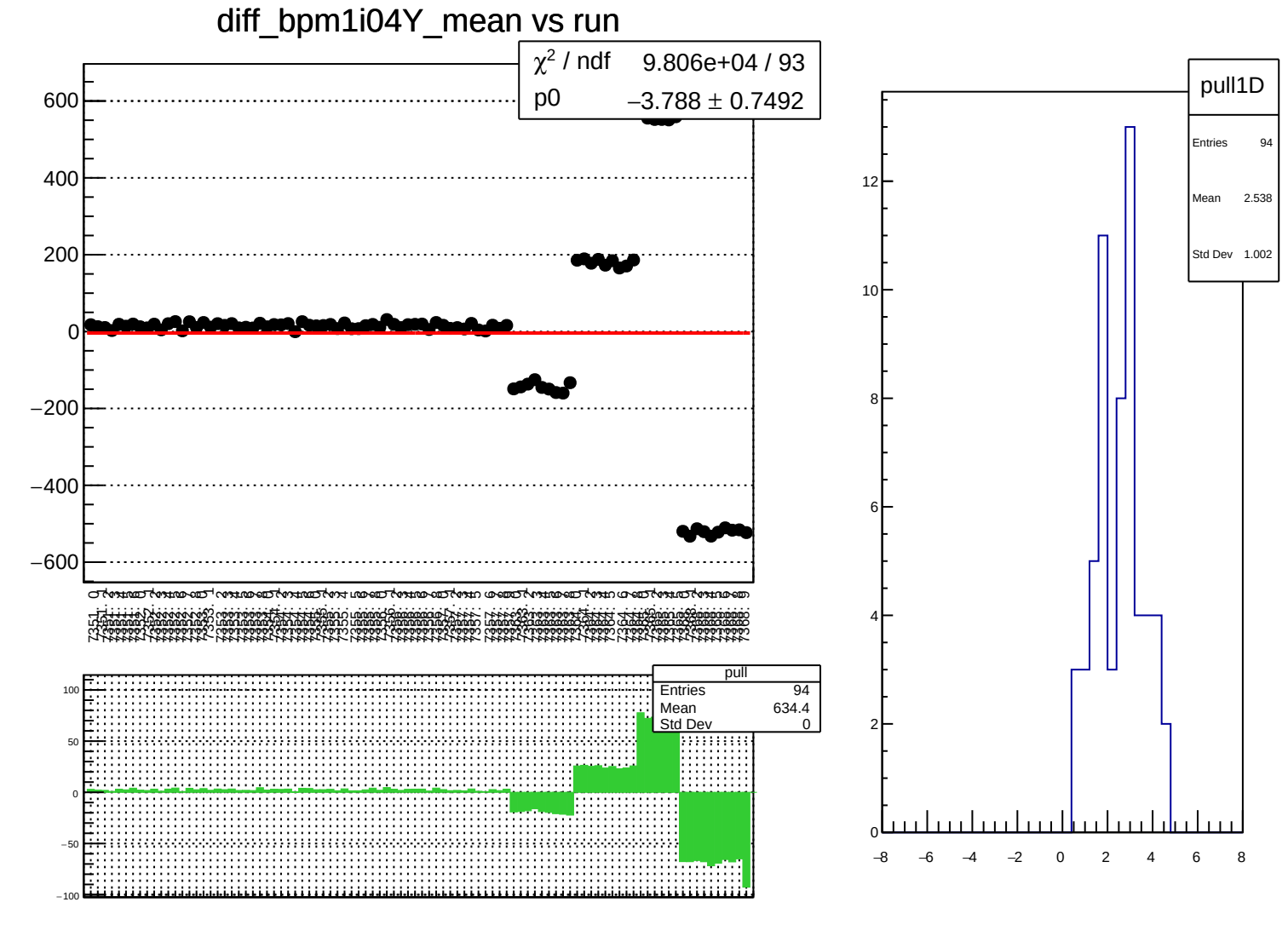

diff_bpm1i02X_rms vs run
χ² / ndf 843.5 / 93
p0 759.6 ± 0.5634
800
790
780
770
760
750
740
730

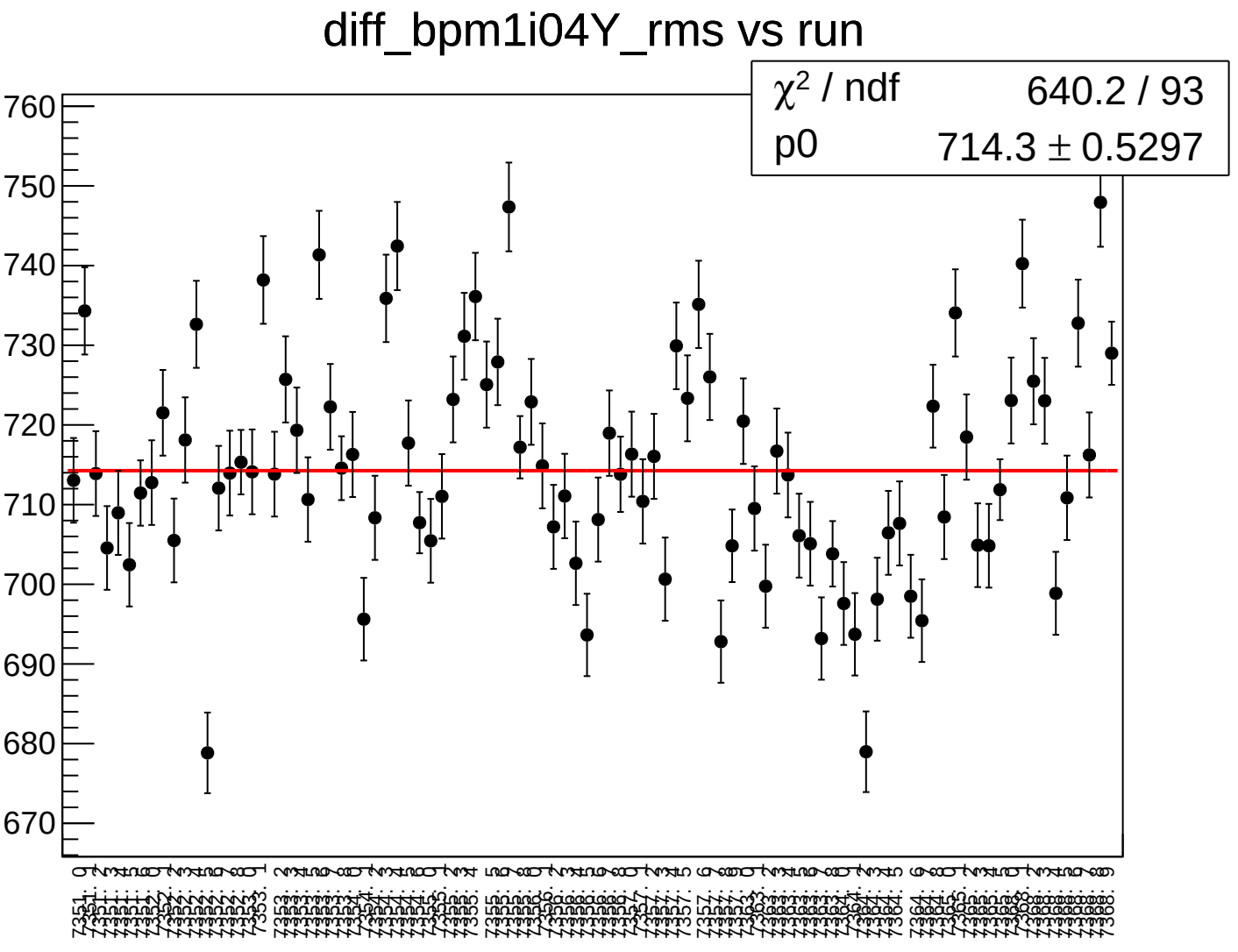

diff_bpm1i02Y_mean vs run
χ² / ndf 4.8e+05 / 93
p0 −0.1835 ± 0.6508
1000
500
0
−500
−1000
pull
Entries 94
Mean 739.3
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200
pull1D
Entries 94
Mean −5.349
Std Dev 0.9928
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

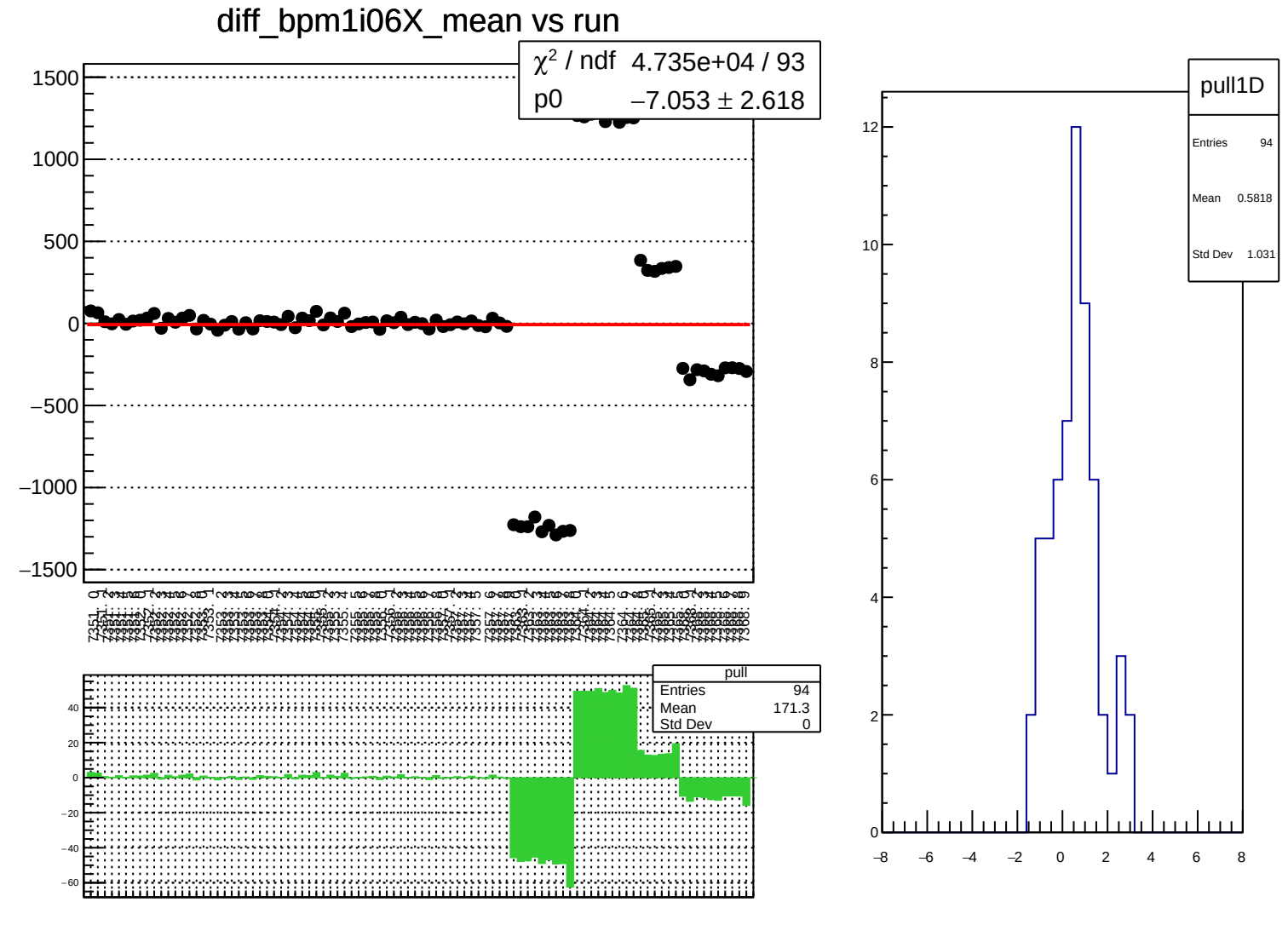

diff_bpm1i02Y_rms vs run
χ² / ndf 140.4 / 93
p0 620.6 ± 0.4602
640
630
620
610
600

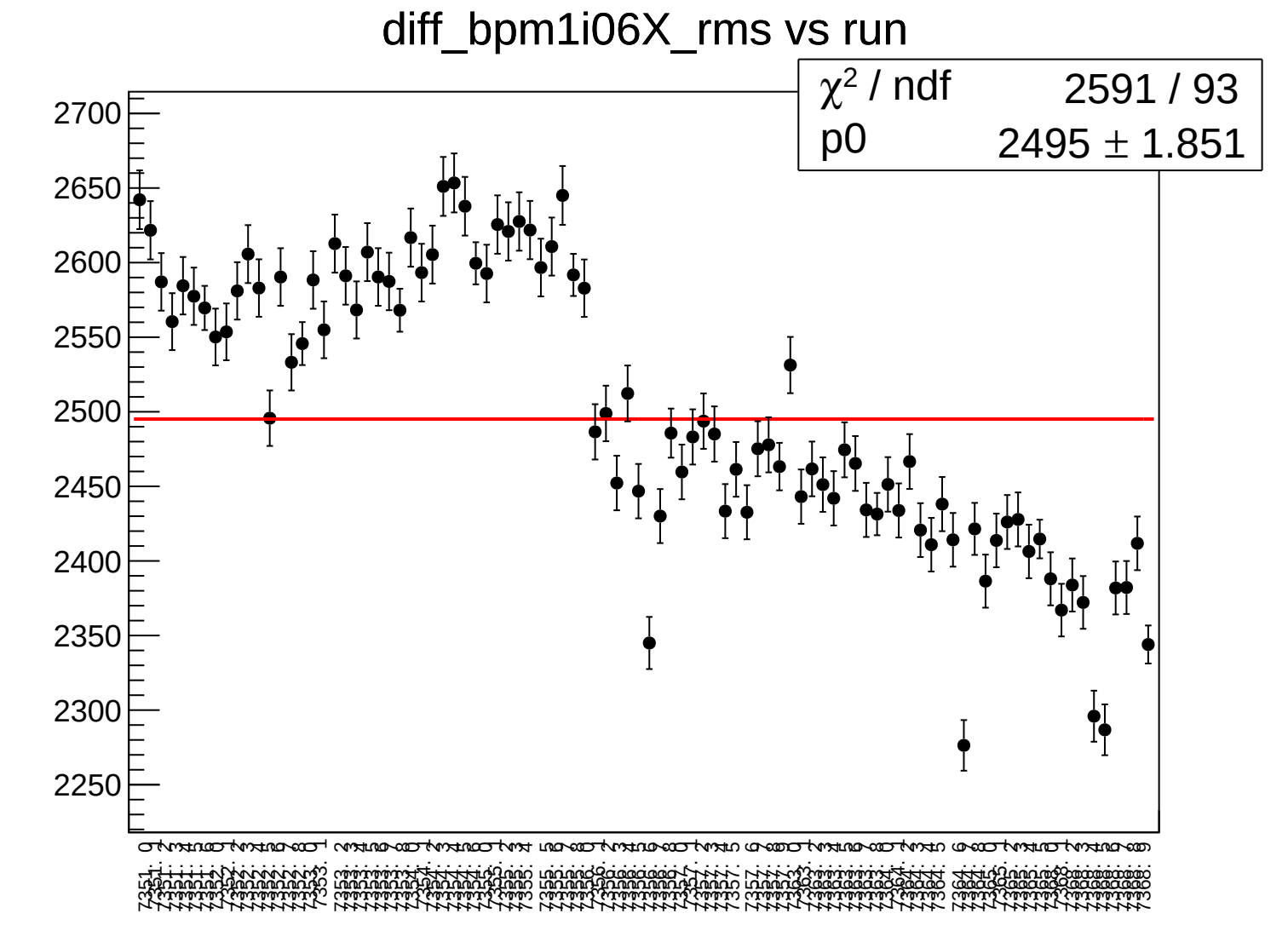

diff_bpm1i04X_mean vs run
χ² / ndf 2.177e+05 / 93
p0 −7.464 ± 0.9256
1000
500
0
−500
−1000
pull
Entries 94
Mean 678.2
Std Dev 0
100
50
0
−50
−100
pull1D
Entries 94
Mean −0.4063
Std Dev 0.9697
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

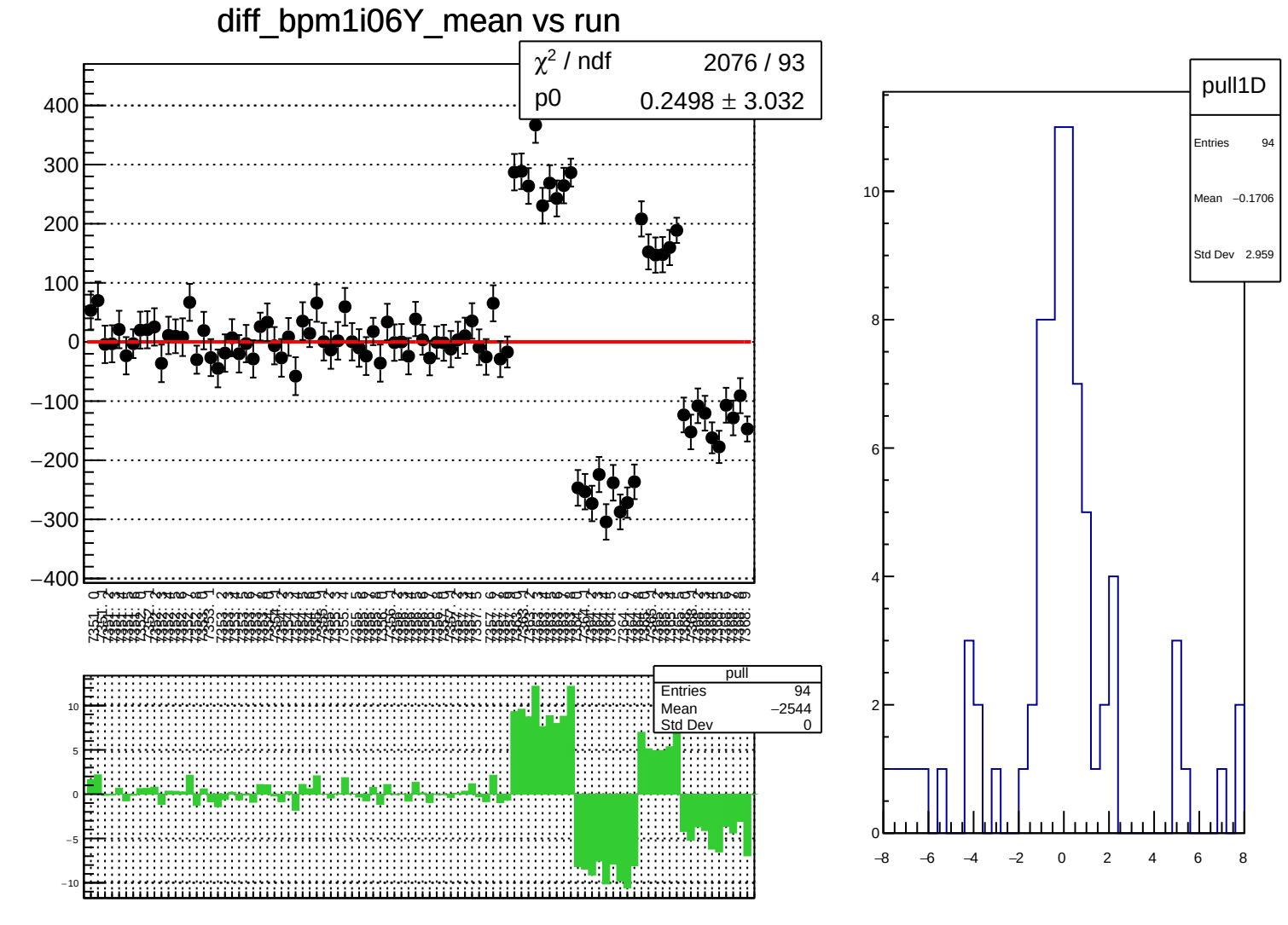

diff_bpm1i04X_rms vs run
χ² / ndf 804.2 / 93
p0 882.5 ± 0.6545
920
900
880
860
840
820
800

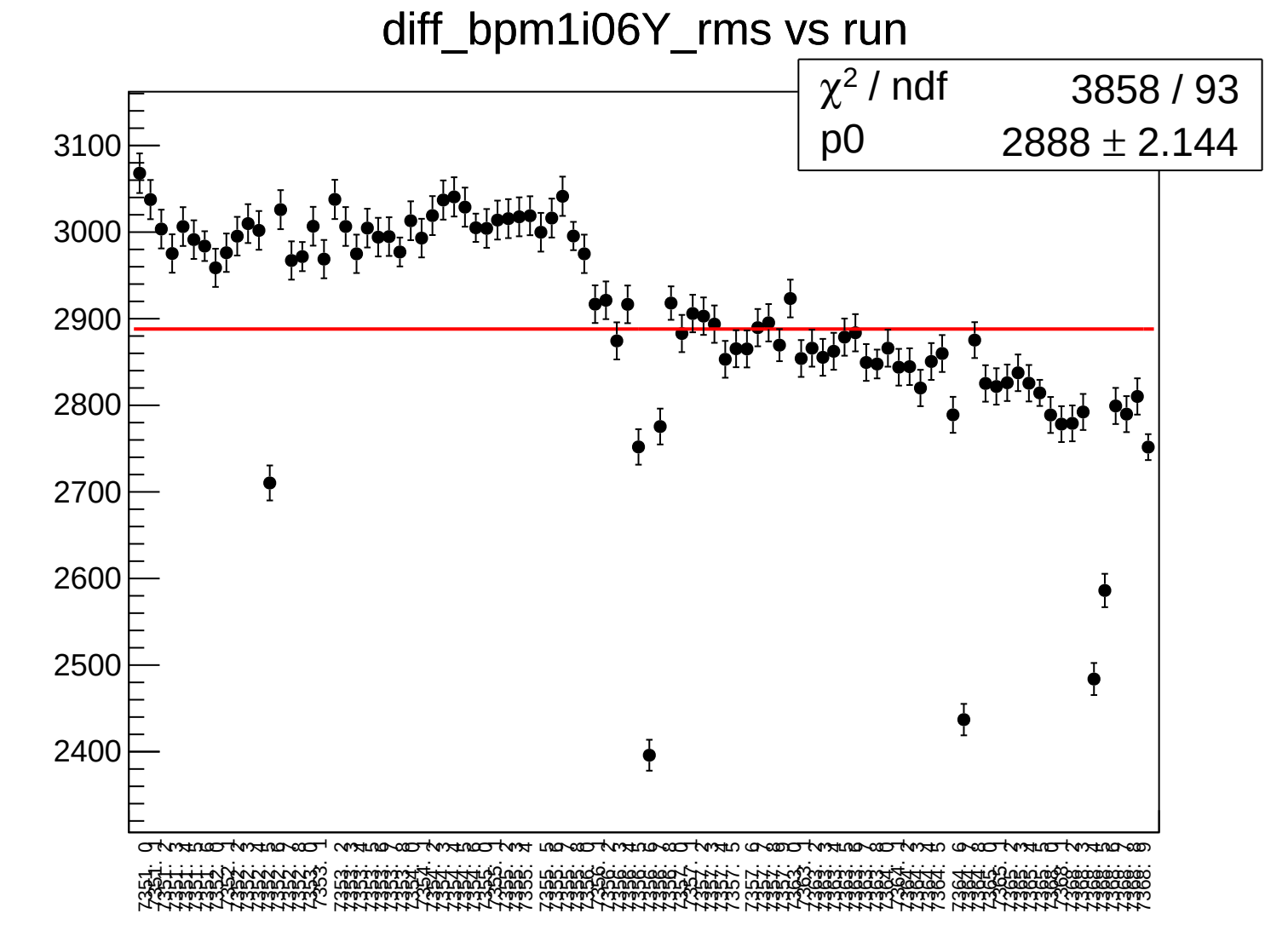

diff_bpm1i04Y_mean vs run
χ² / ndf 9.806e+04 / 93
p0 −3.788 ± 0.7492
600
400
200
0
−200
−400
−600
pull
Entries 94
Mean 634.4
Std Dev 0
100
50
0
−50
−100
pull1D
Entries 94
Mean 2.538
Std Dev 1.002
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

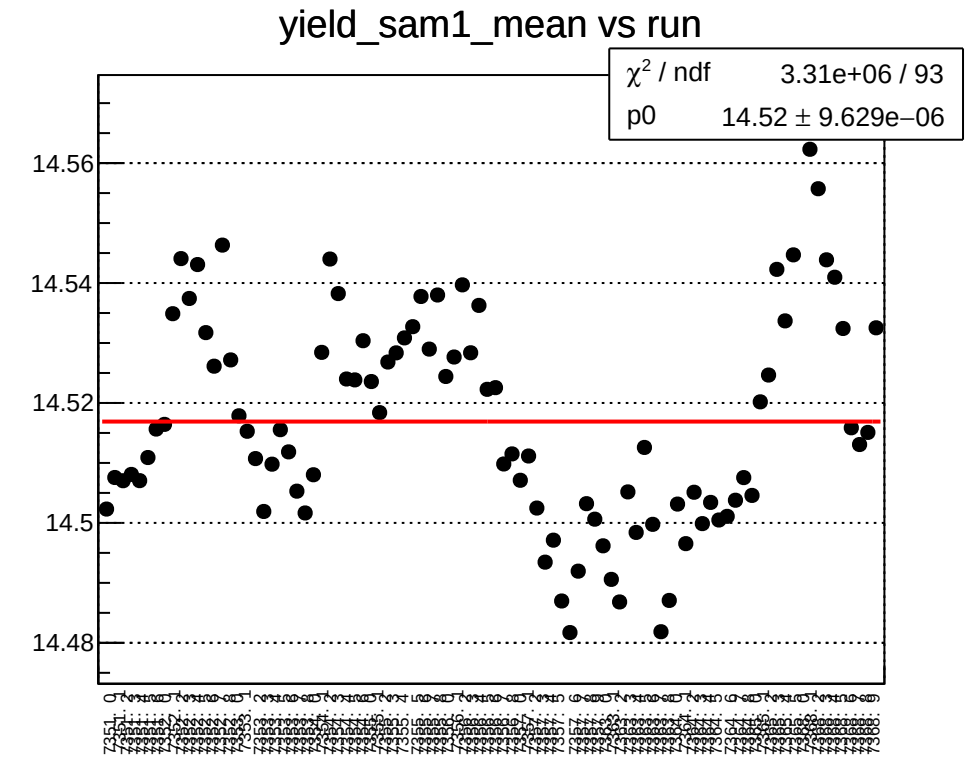

diff_bpm1i04Y_rms vs run
χ² / ndf 640.2 / 93
p0 714.3 ± 0.5297
760
750
740
730
720
710
700
690
680
670

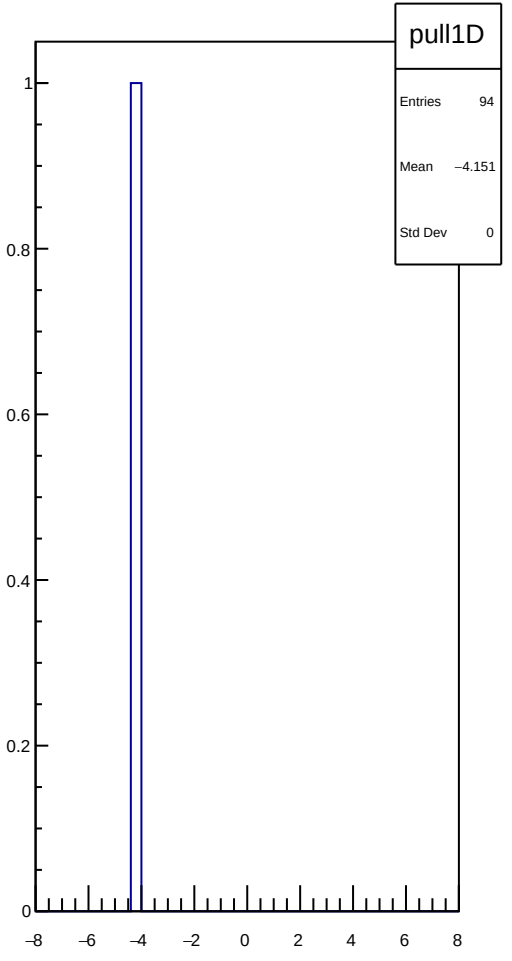

diff_bpm1i06X_mean vs run
χ² / ndf 4.735e+04 / 93
p0 −7.053 ± 2.618
1500
1000
500
0
−500
−1000
−1500
pull
Entries 94
Mean 171.3
Std Dev 0
40
20
0
−20
−40
−60
pull1D
Entries 94
Mean 0.5818
Std Dev 1.031
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

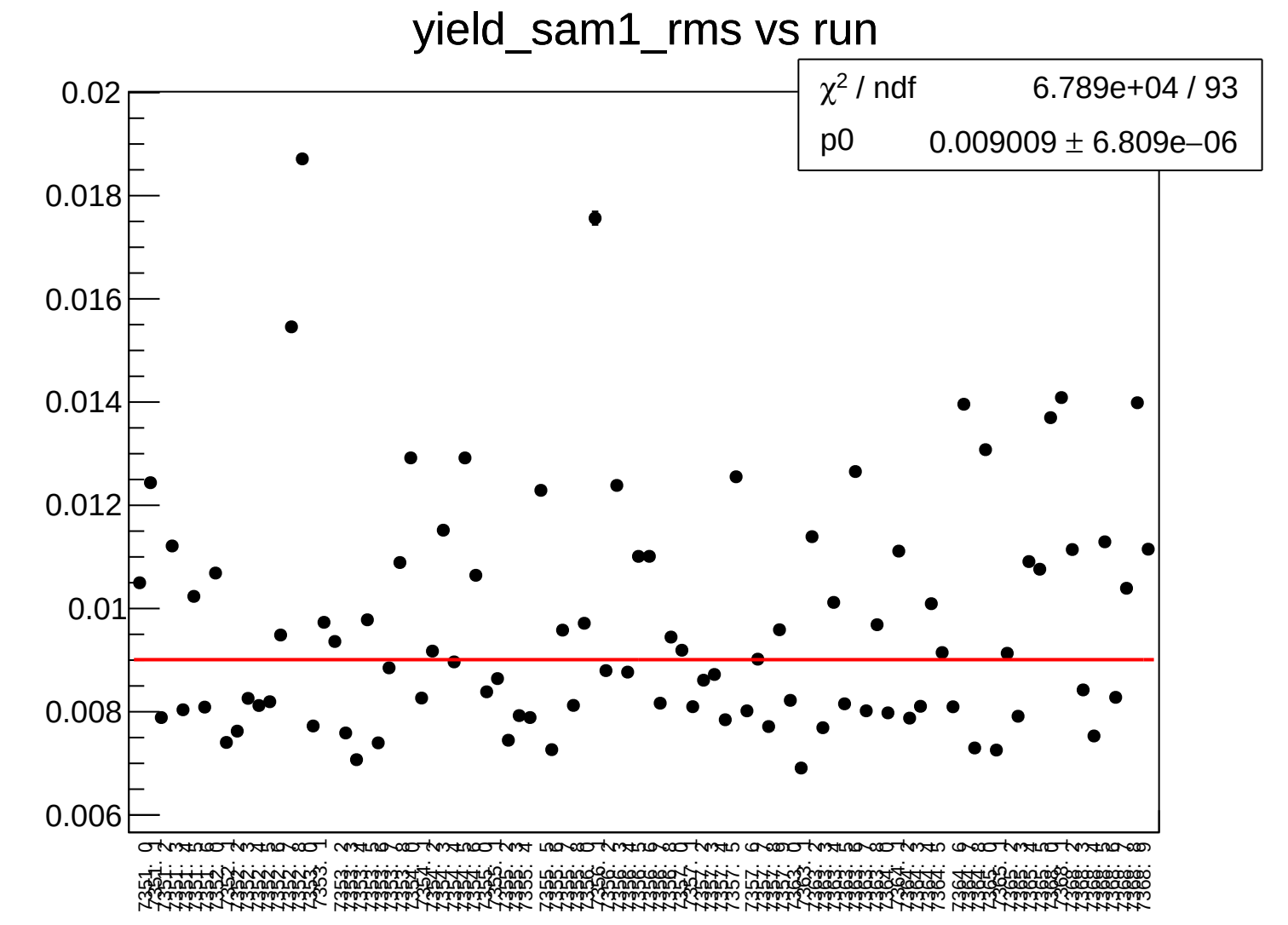

diff_bpm1i06X_rms vs run
χ^2 / ndf 2591 / 93
p0 2495 ± 1.851
2700
2650
2600
2550
2500
2450
2400
2350
2300
2250

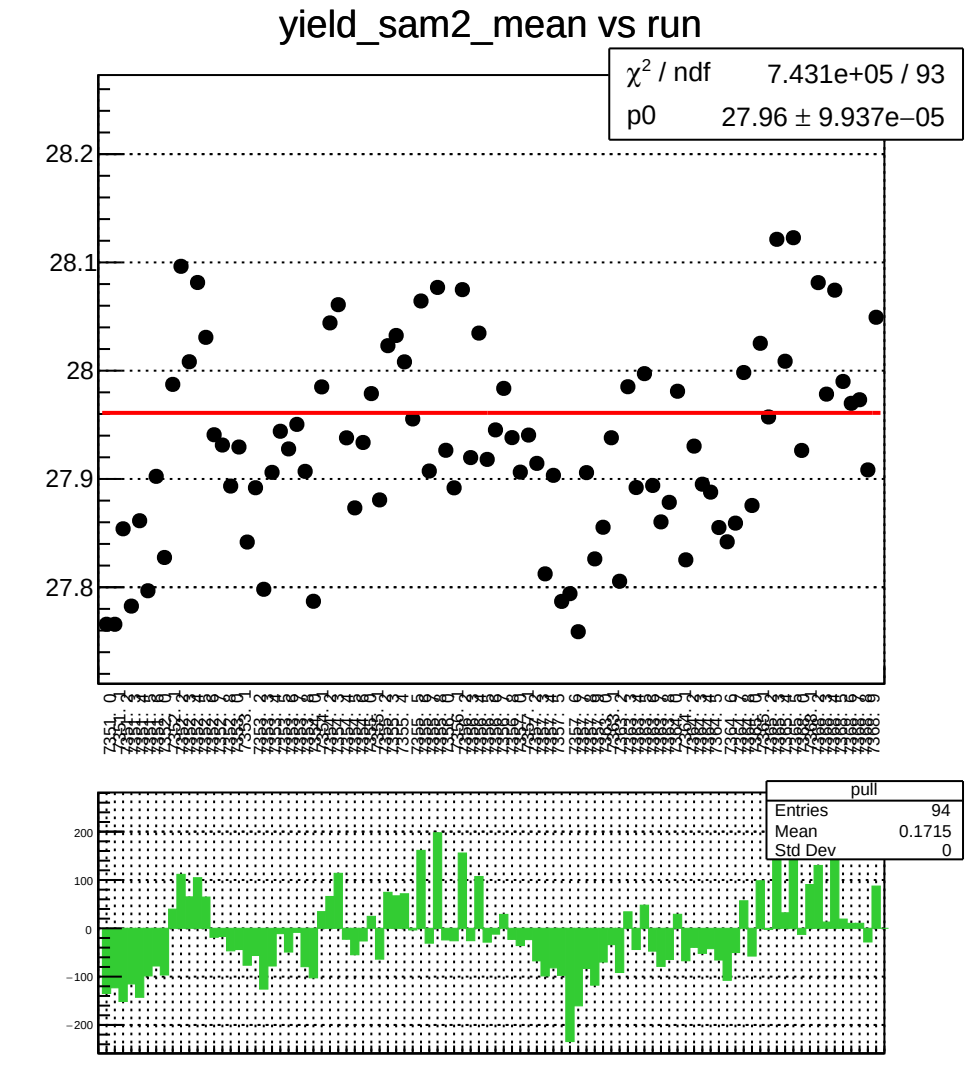

diff_bpm1i06Y_mean vs run
χ² / ndf 2076 / 93
p0 0.2498 ± 3.032
pull
Entries 94
Mean −2544
Std Dev 0
pull1D
Entries 94
Mean −0.1706
Std Dev 2.959

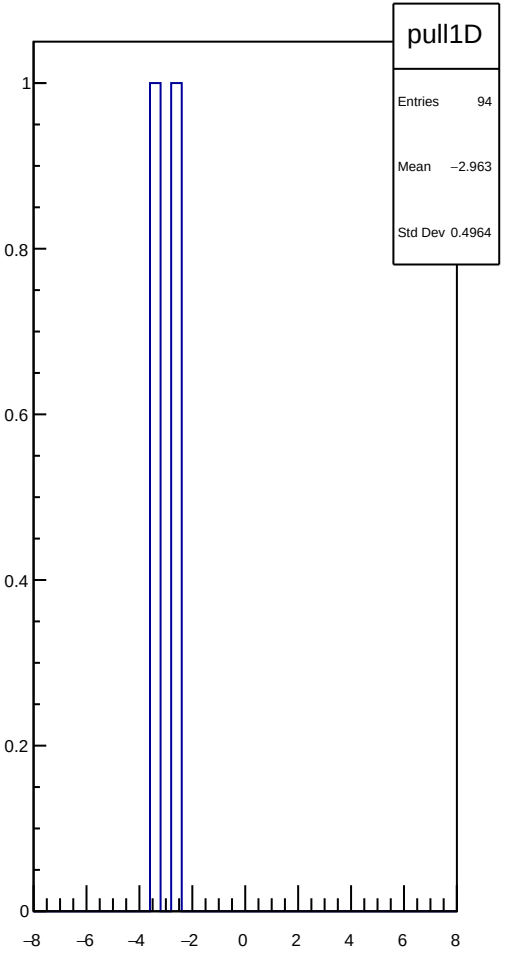

diff_bpm1i06Y_rms vs run
χ^2 / ndf 3858 / 93
p0 2888 ± 2.144
3100
3000
2900
2800
2700
2600
2500
2400

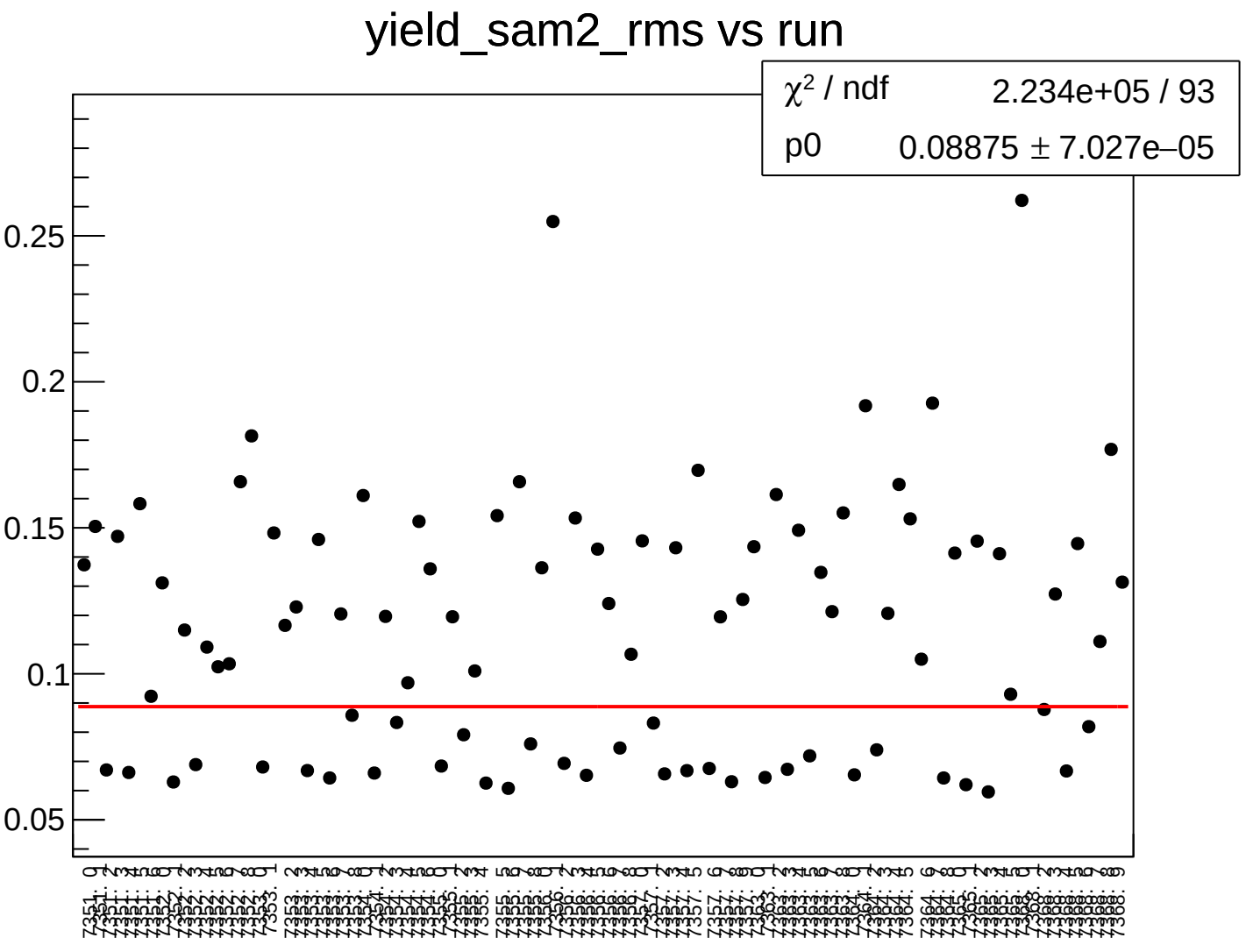

yield_sam1_mean vs run
χ² / ndf 3.31e+06 / 93
p0 14.52 ± 9.629e−06
14.56
14.54
14.52
14.5
14.48
pull
Entries 94
Mean −119
Std Dev 0
300
200
100
0
−100
−200
−300
−400

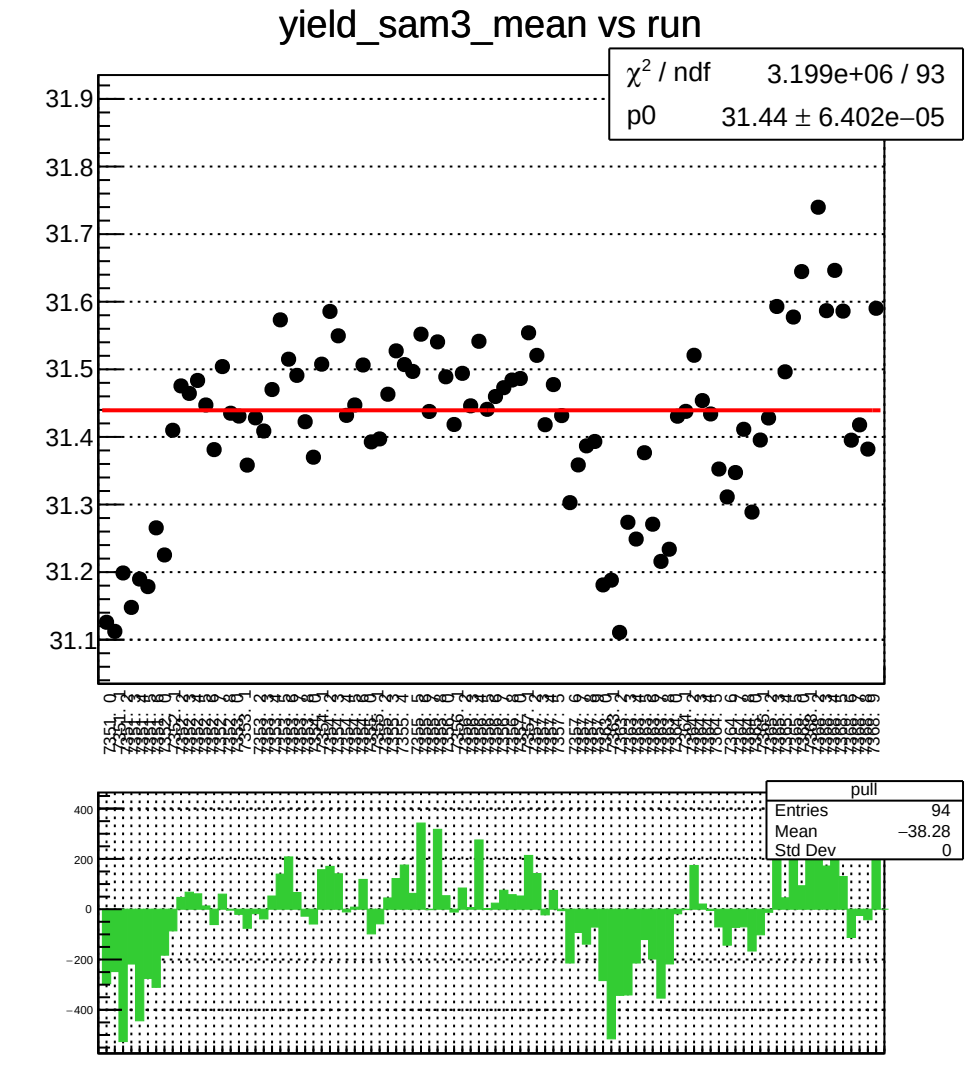

pull1D
Entries 94
Mean −4.151
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

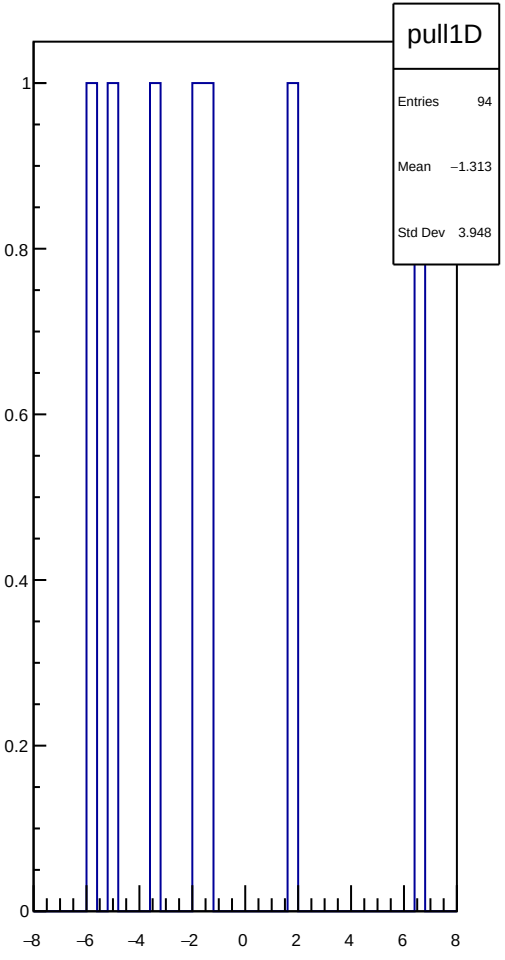

yield_sam1_rms vs run
χ² / ndf 6.789e+04 / 93
p0 0.009009 ± 6.809e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006


yield_sam2_mean vs run
χ² / ndf 7.431e+05 / 93
p0 27.96 ± 9.937e−05
28.2
28.1
28
27.9
27.8
pull
Entries 94
Mean 0.1715
Std Dev 0
200
100
0
−100
−200

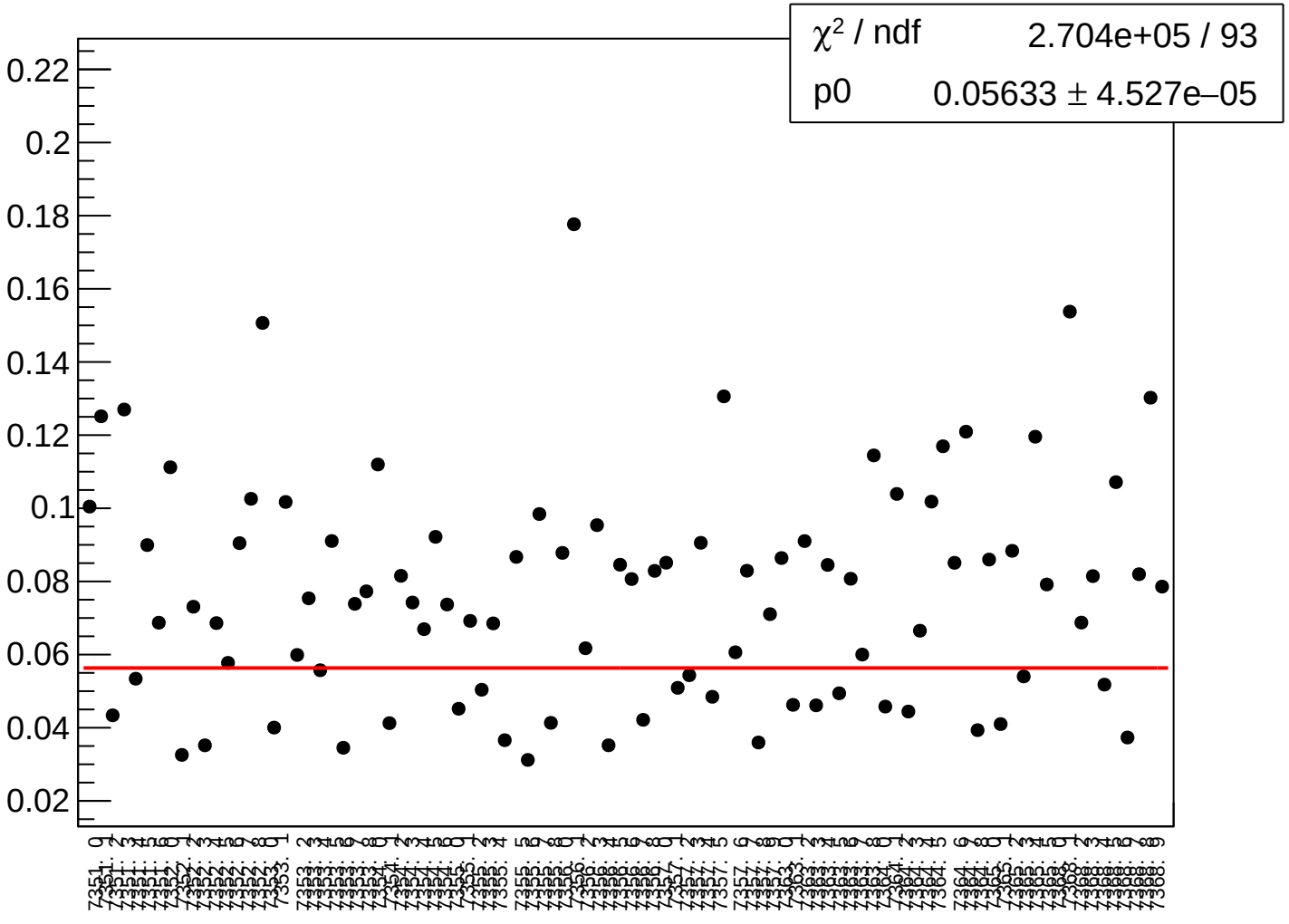

pull1D
Entries 94
Mean −2.963
Std Dev 0.4964
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

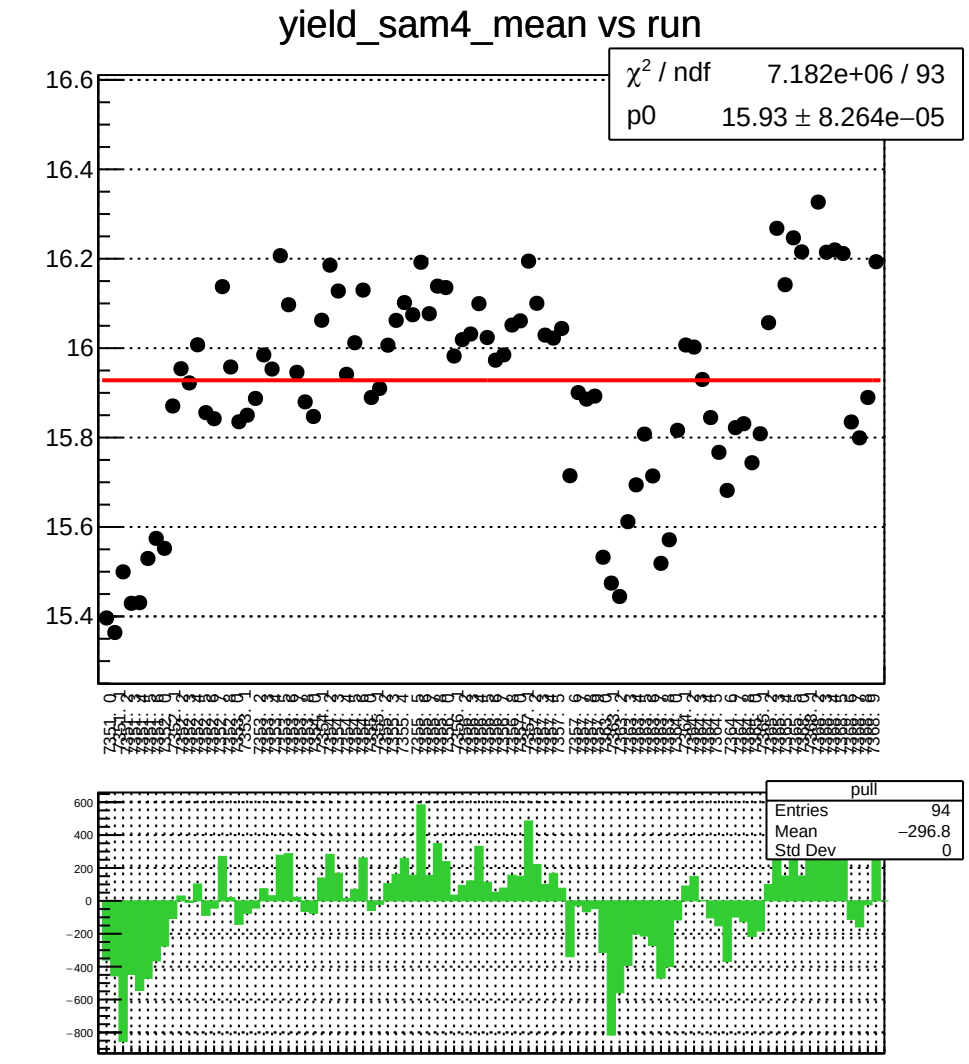

yield_sam2_rms vs run
χ² / ndf 2.234e+05 / 93
p0 0.08875 ± 7.027e–05
0.25
0.2
0.15
0.1
0.05

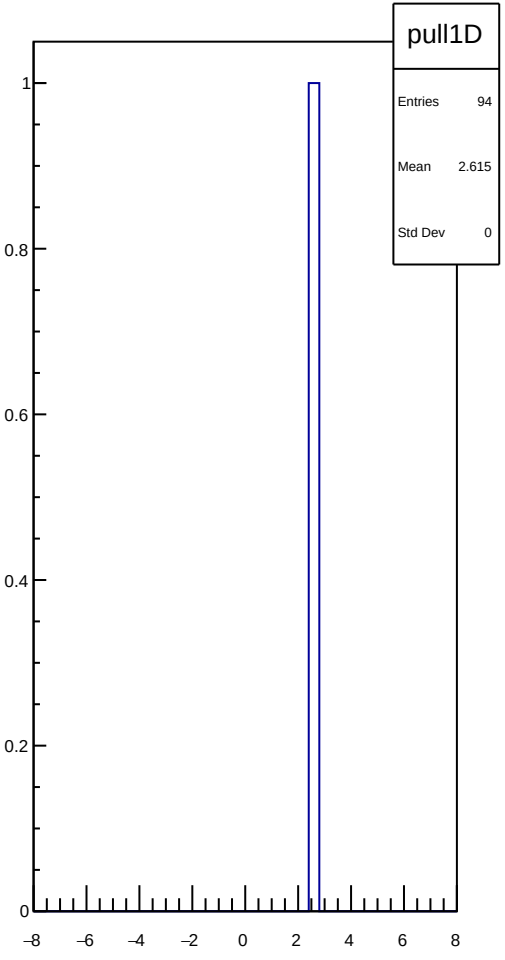

yield_sam3_mean vs run
χ² / ndf 3.199e+06 / 93
p0 31.44 ± 6.402e−05
31.9
31.8
31.7
31.6
31.5
31.4
31.3
31.2
31.1
pull
Entries 94
Mean −38.28
Std Dev 0
400
200
0
−200
−400

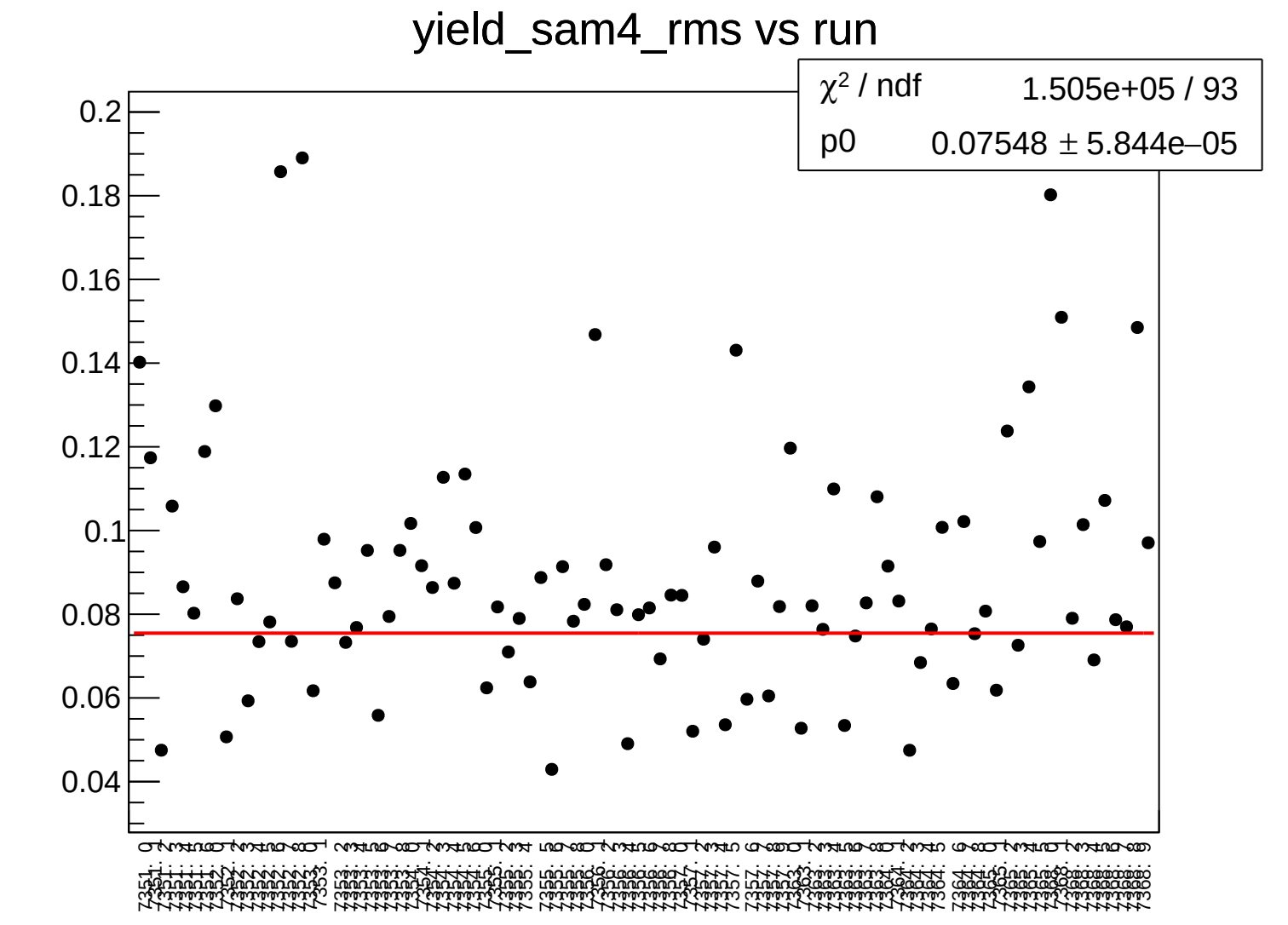

pull1D
Entries 94
Mean −1.313
Std Dev 3.948
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

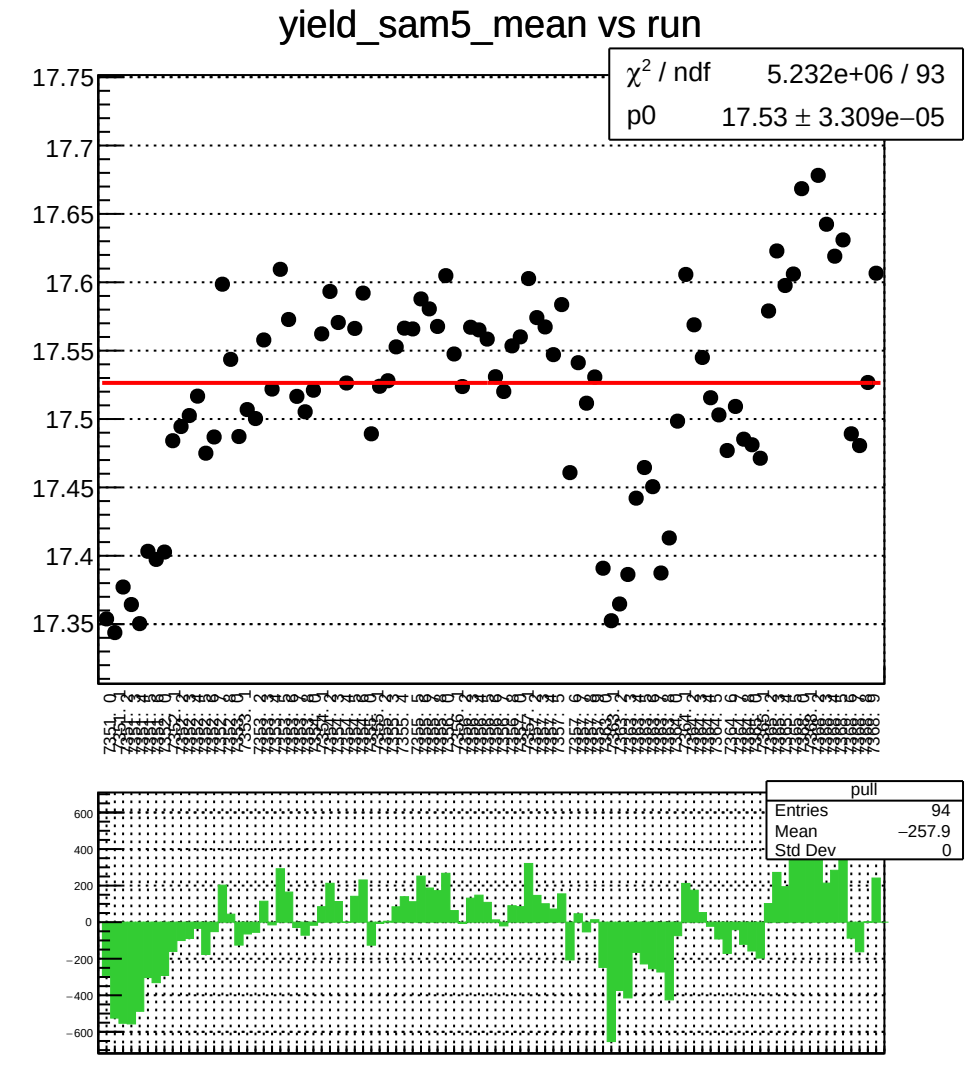
yield_sam3_rms vs run

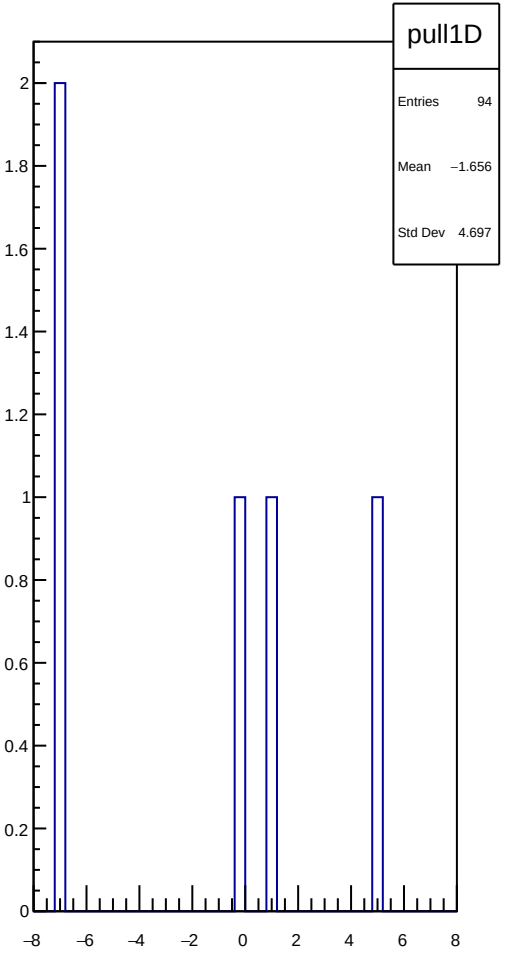


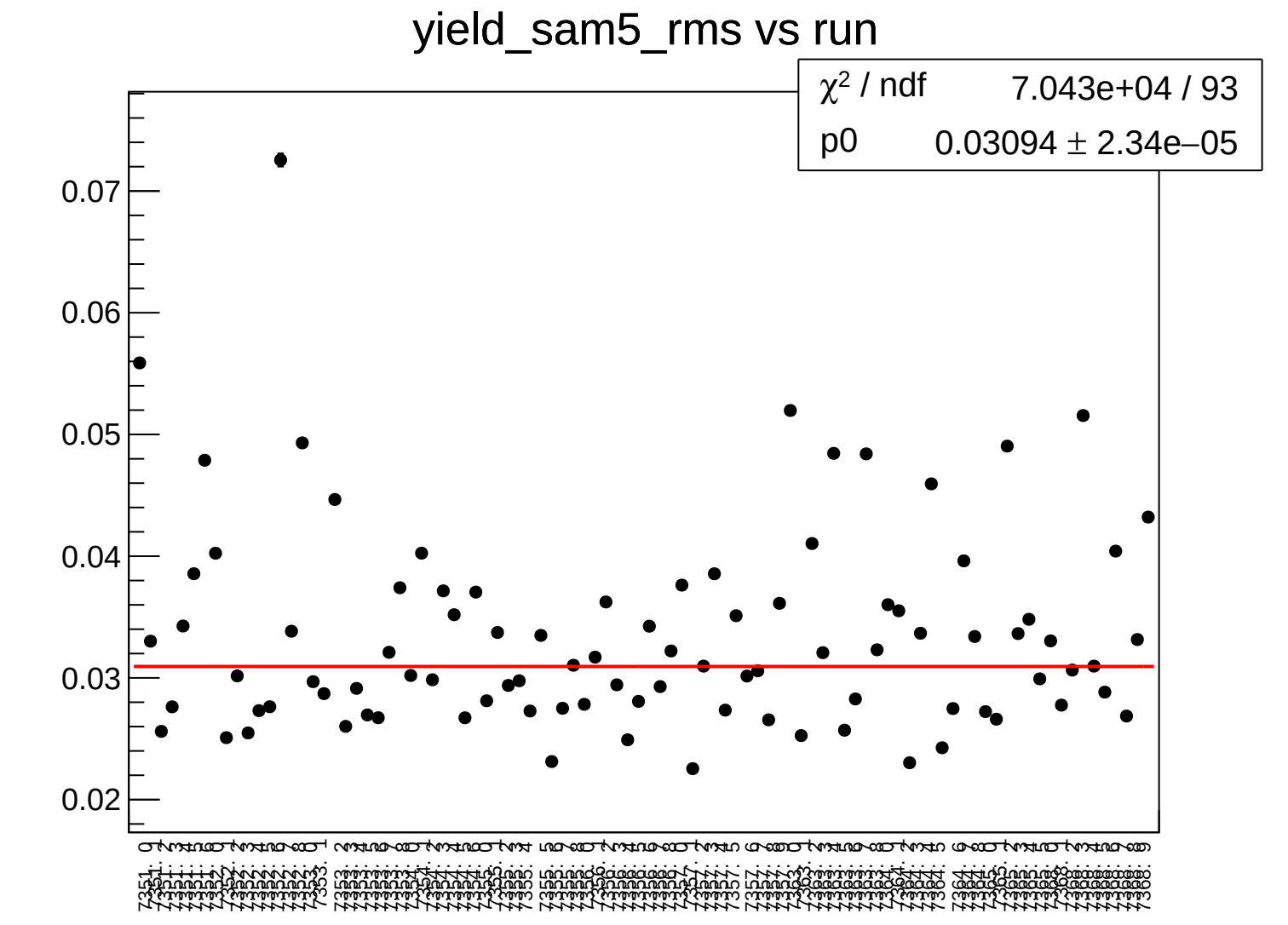

yield_sam4_mean vs run
χ² / ndf 7.182e+06 / 93
p0 15.93 ± 8.264e−05
16.6
16.4
16.2
16
15.8
15.6
15.4
pull
Entries 94
Mean −296.8
Std Dev 0
600
400
200
0
−200
−400
−600
−800

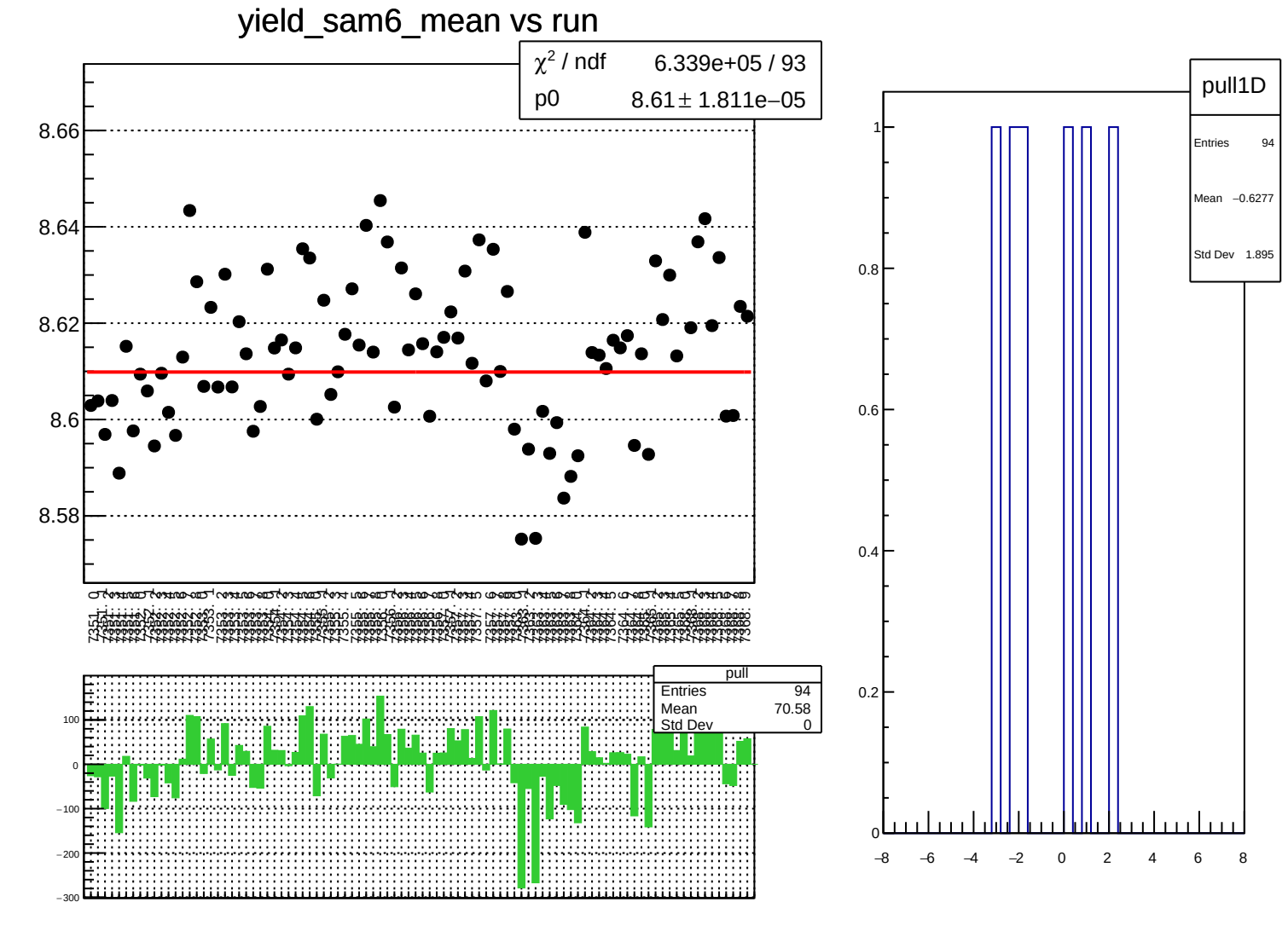

pull1D
Entries 94
Mean 2.615
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

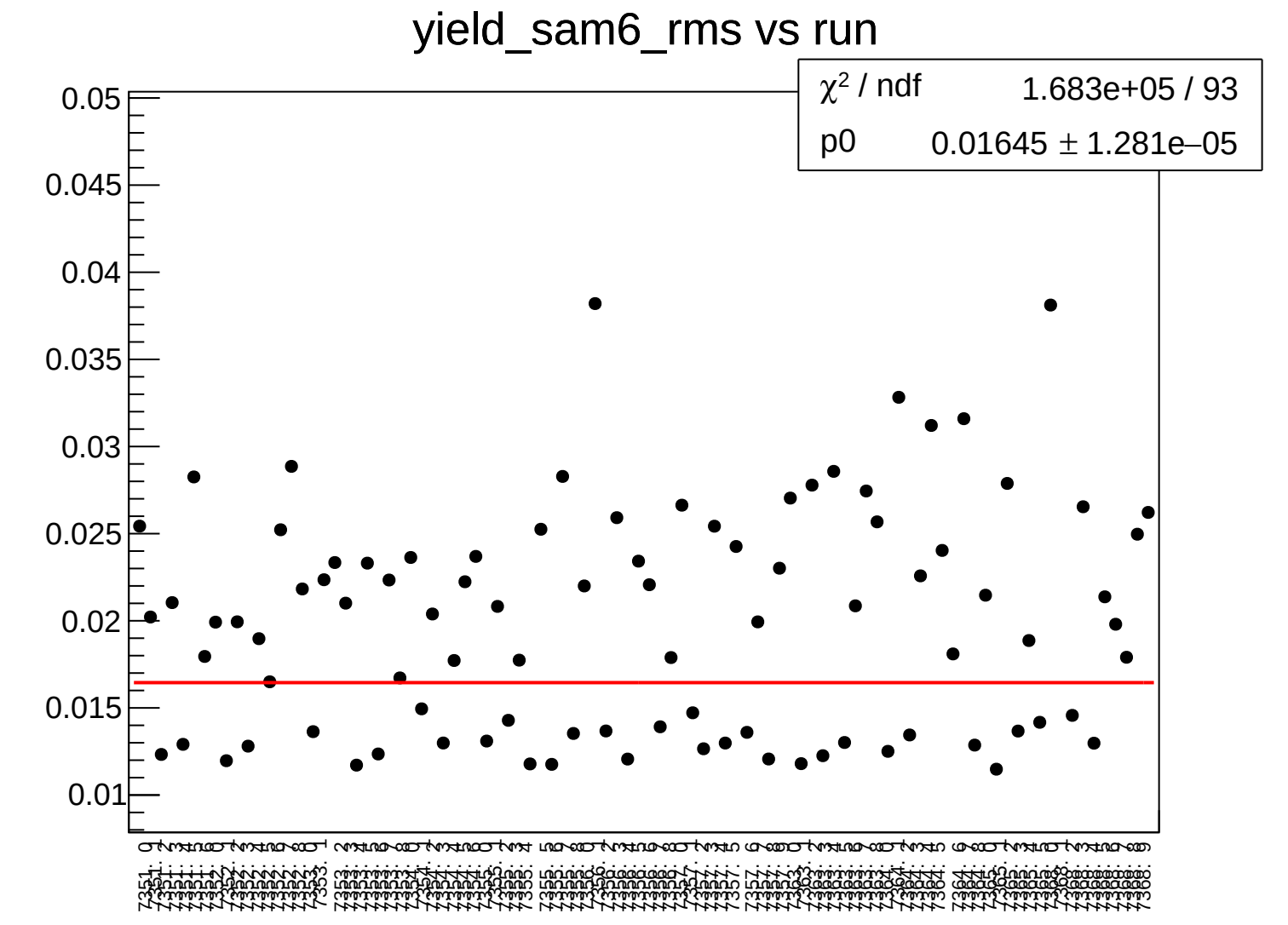

yield_sam4_rms vs run
χ² / ndf 1.505e+05 / 93
p0 0.07548 ± 5.844e−05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04

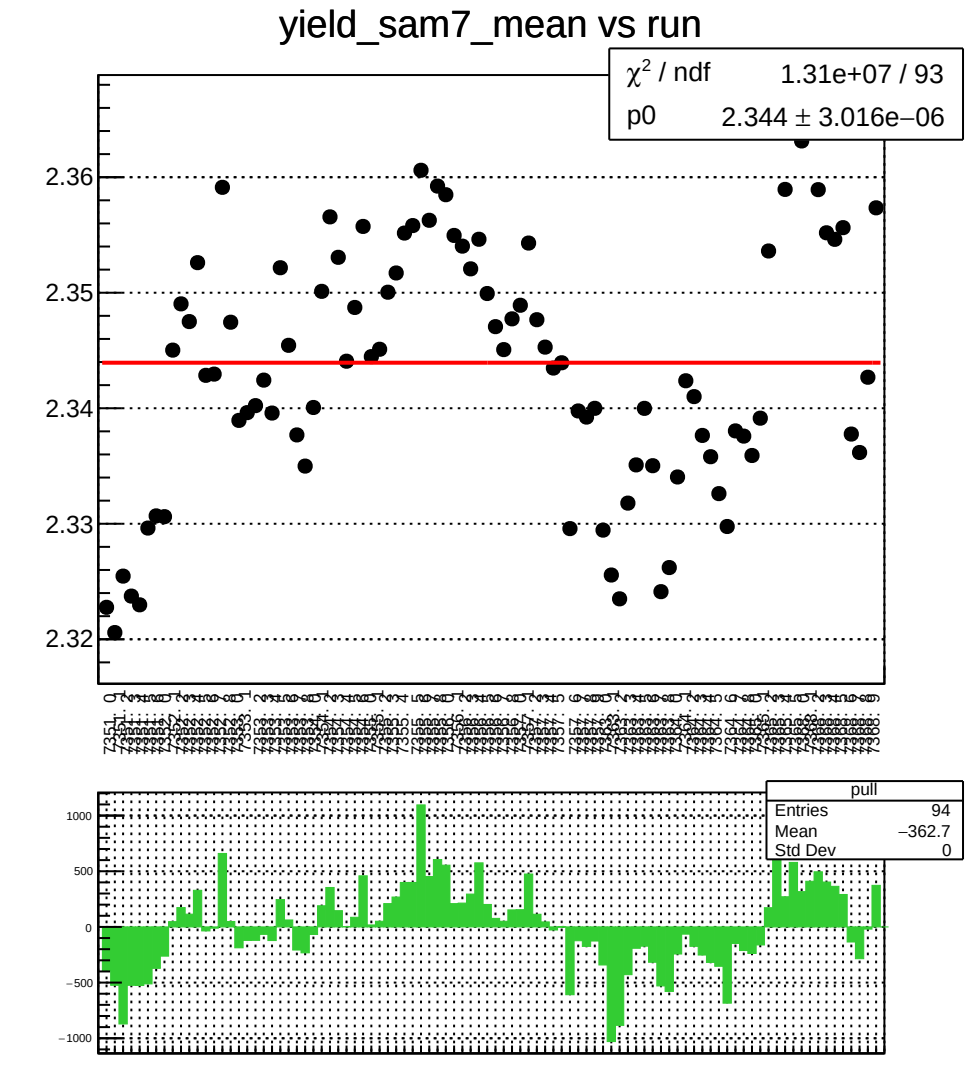

yield_sam5_mean vs run
χ² / ndf 5.232e+06 / 93
p0 17.53 ± 3.309e−05
17.75
17.7
17.65
17.6
17.55
17.5
17.45
17.4
17.35
pull
Entries 94
Mean −257.9
Std Dev 0
600
400
200
0
−200
−400
−600

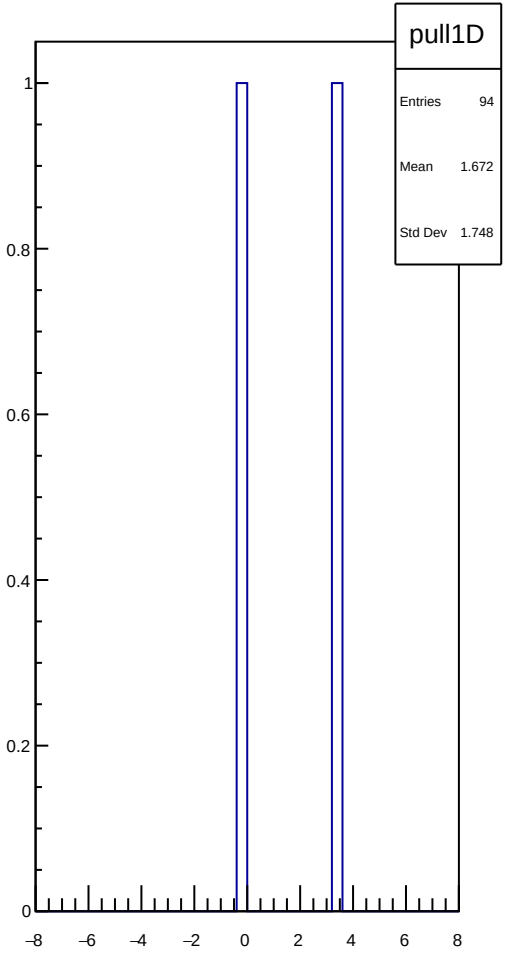

pull1D
Entries 94
Mean −1.656
Std Dev 4.697
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

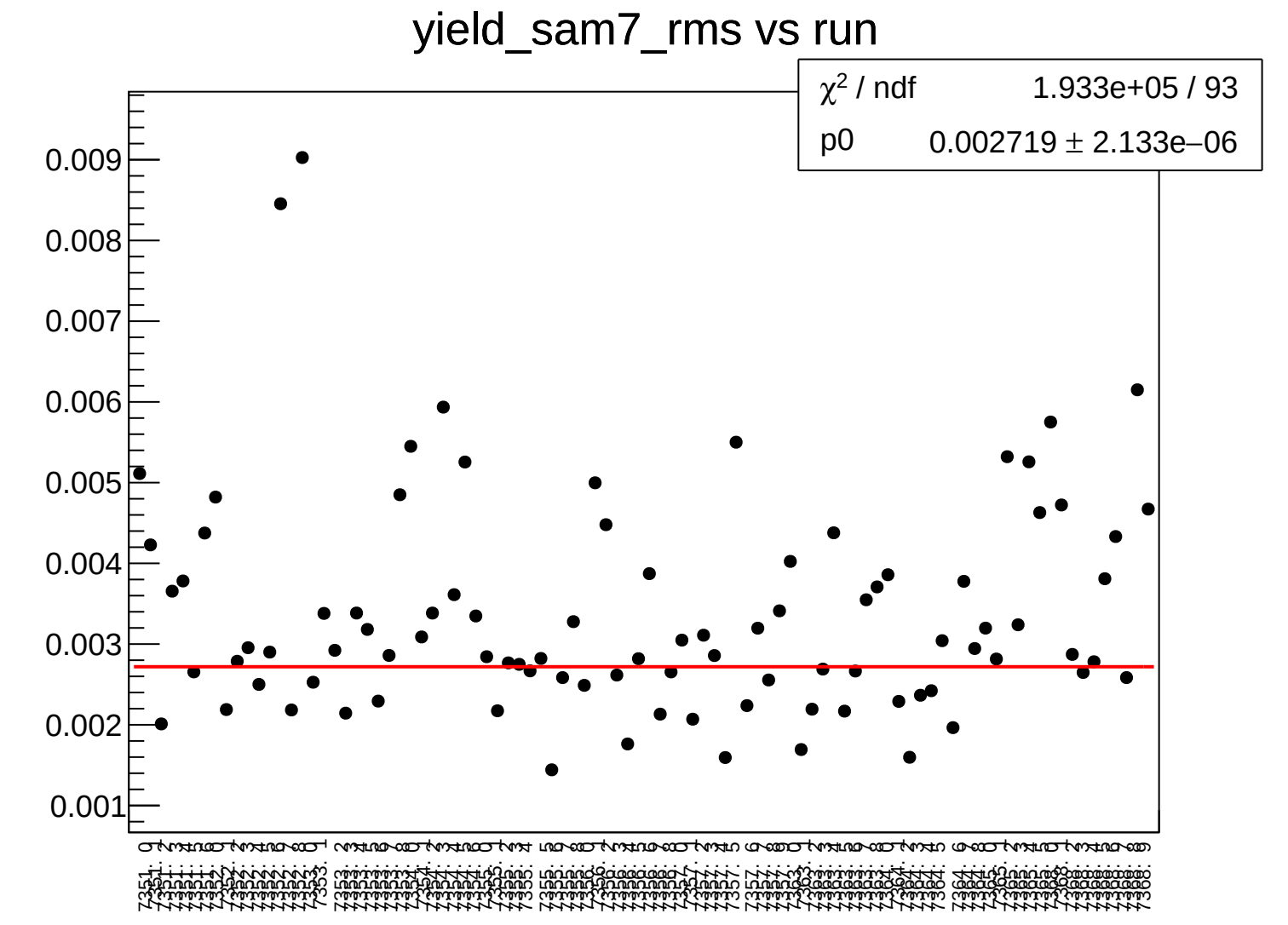

yield_sam5_rms vs run
χ^2 / ndf 7.043e+04 / 93
p0 0.03094 ± 2.34e−05
0.07
0.06
0.05
0.04
0.03
0.02

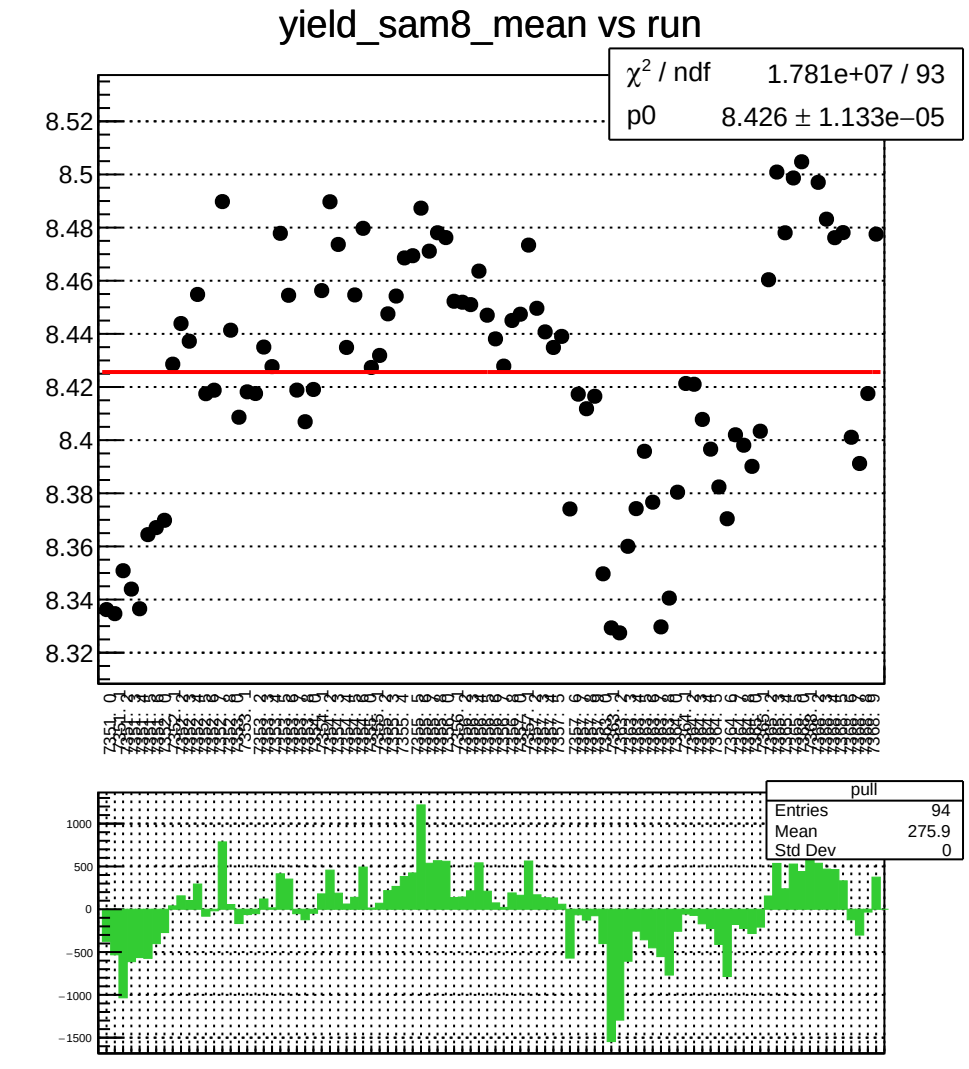

yield_sam6_mean vs run
χ² / ndf 6.339e+05 / 93
p0 8.61 ± 1.811e−05
8.66
8.64
8.62
8.6
8.58
pull
Entries 94
Mean 70.58
Std Dev 0
100
0
−100
−200
−300
pull1D
Entries 94
Mean −0.6277
Std Dev 1.895
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

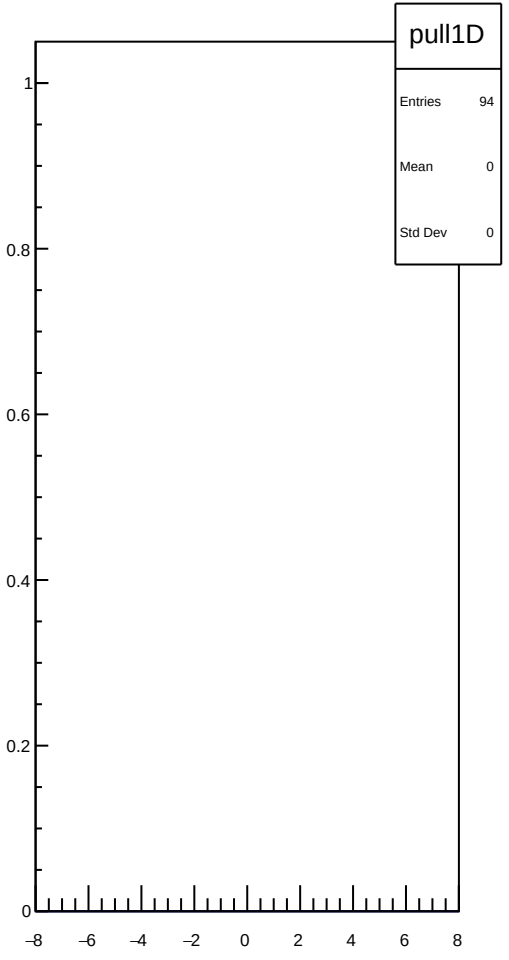

yield_sam6_rms vs run
χ² / ndf 1.683e+05 / 93
p0 0.01645 ± 1.281e−05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

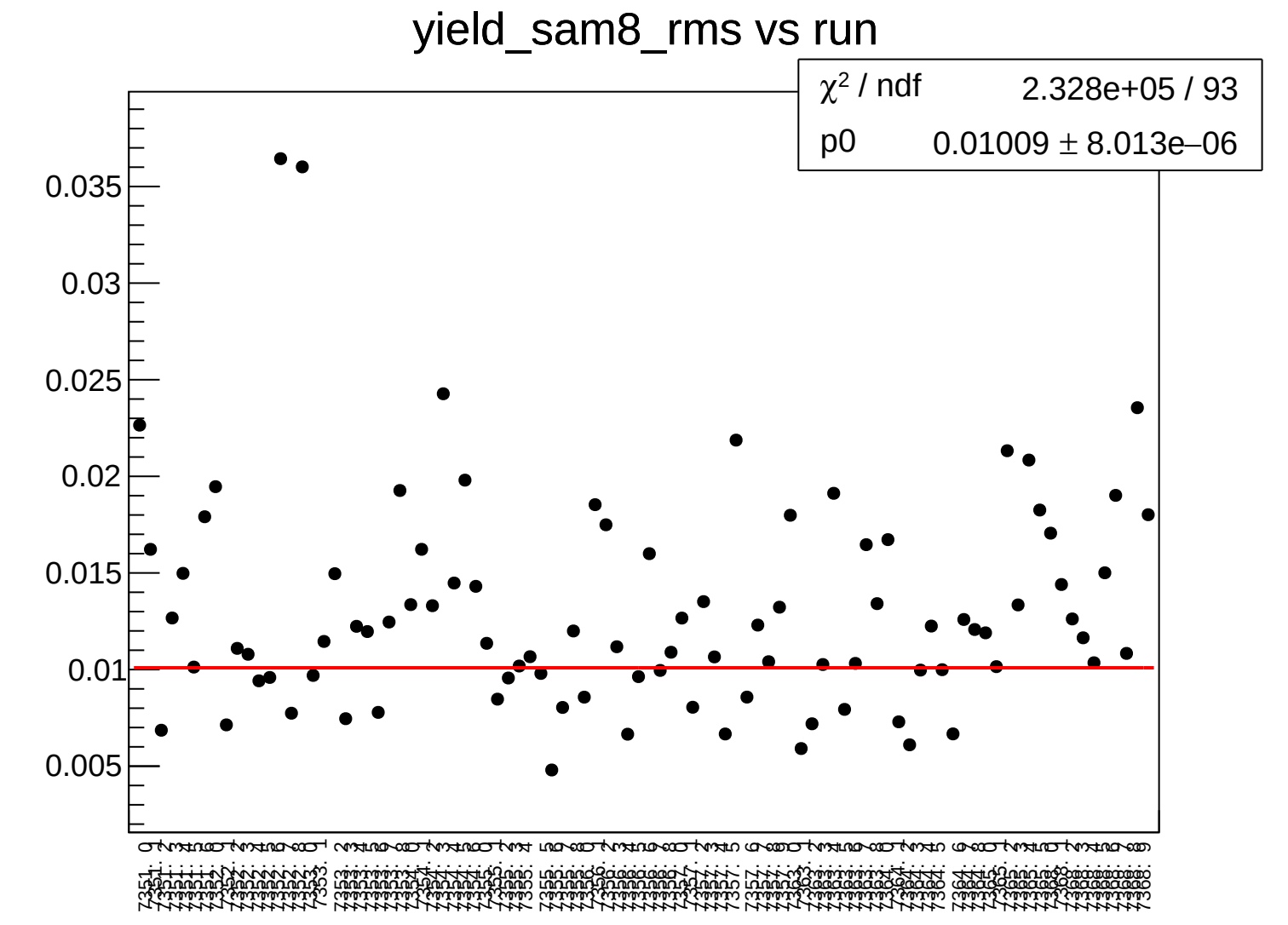

yield_sam7_mean vs run
χ² / ndf 1.31e+07 / 93
p0 2.344 ± 3.016e−06
2.36
2.35
2.34
2.33
2.32
pull
Entries 94
Mean −362.7
Std Dev 0
1000
500
0
−500
−1000

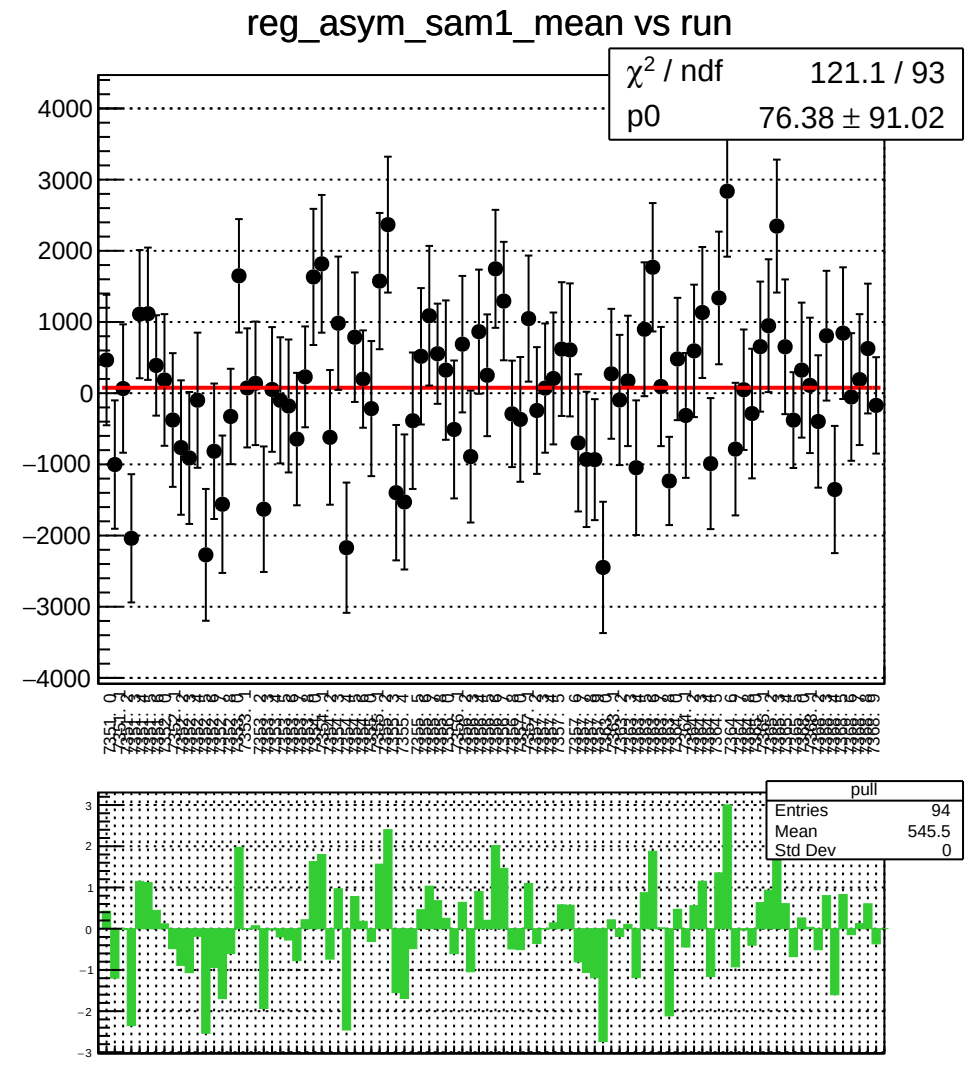

pull1D
Entries 94
Mean 1.672
Std Dev 1.748
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

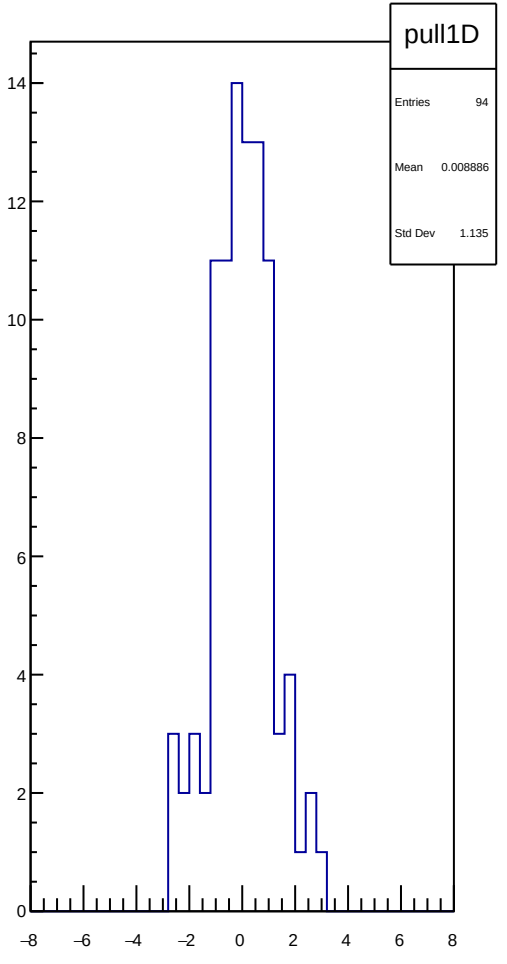

yield_sam7_rms vs run
χ^2 / ndf 1.933e+05 / 93
p0 0.002719 ± 2.133e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001

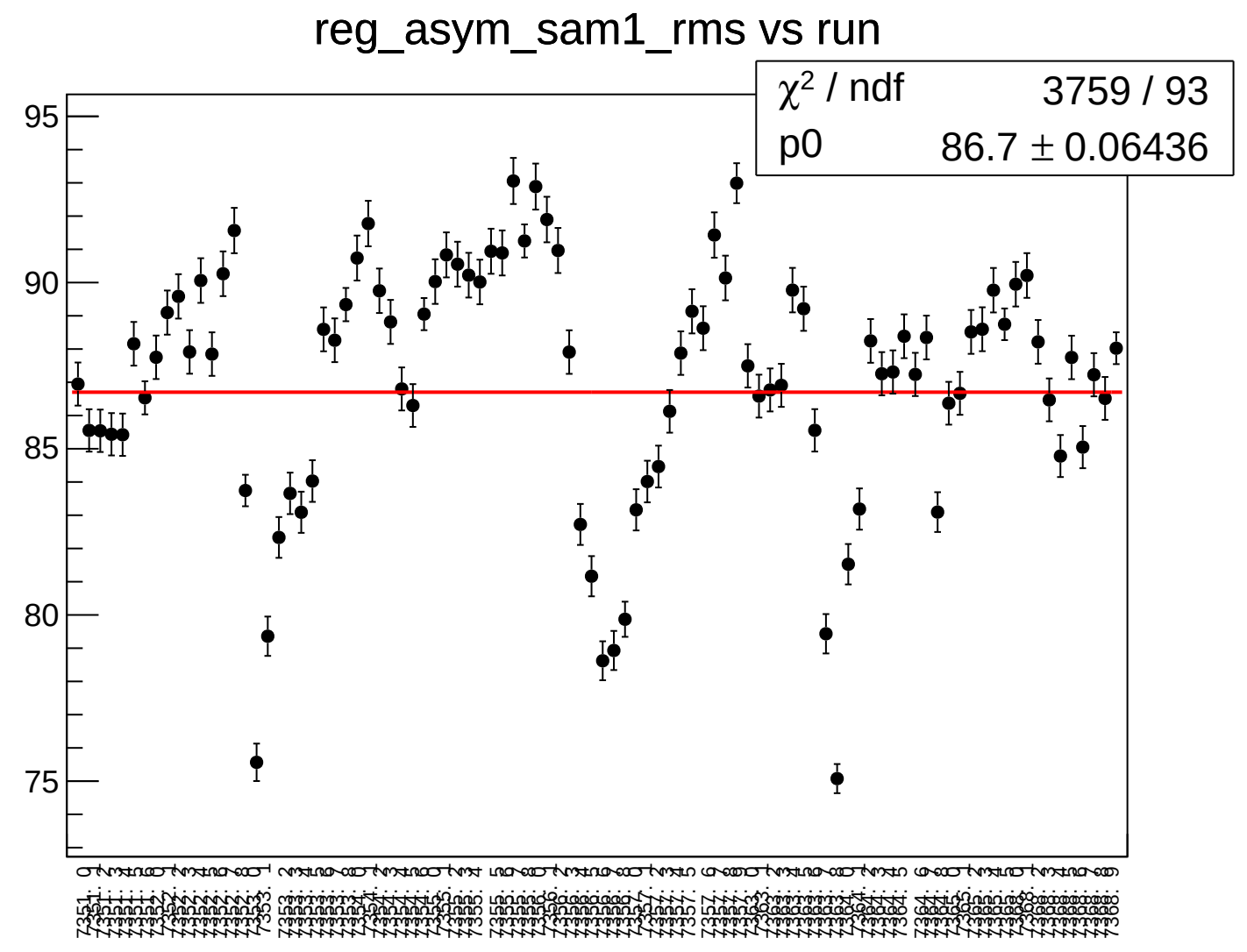

yield_sam8_mean vs run
χ² / ndf 1.781e+07 / 93
p0 8.426 ± 1.133e−05
8.52
8.5
8.48
8.46
8.44
8.42
8.4
8.38
8.36
8.34
8.32
pull
Entries 94
Mean 275.9
Std Dev 0
1000
500
0
−500
−1000
−1500

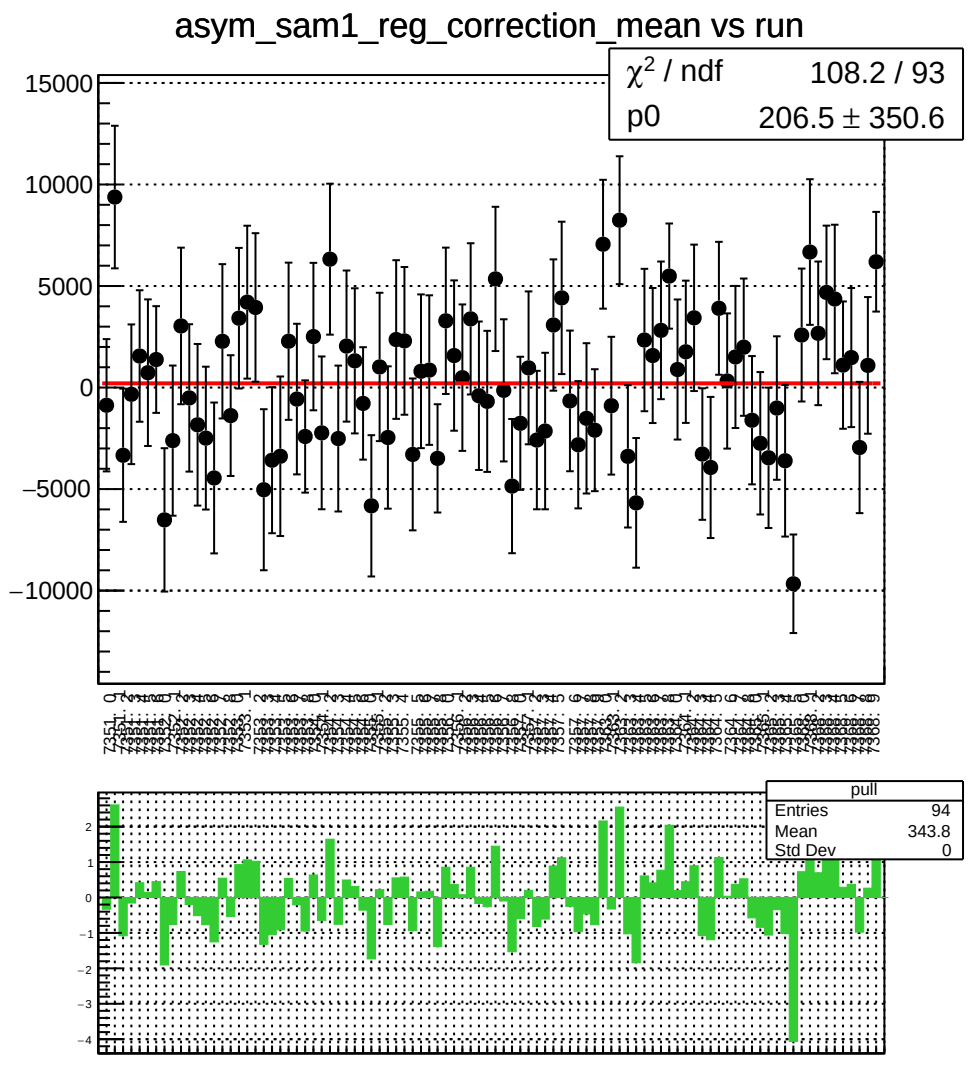

pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

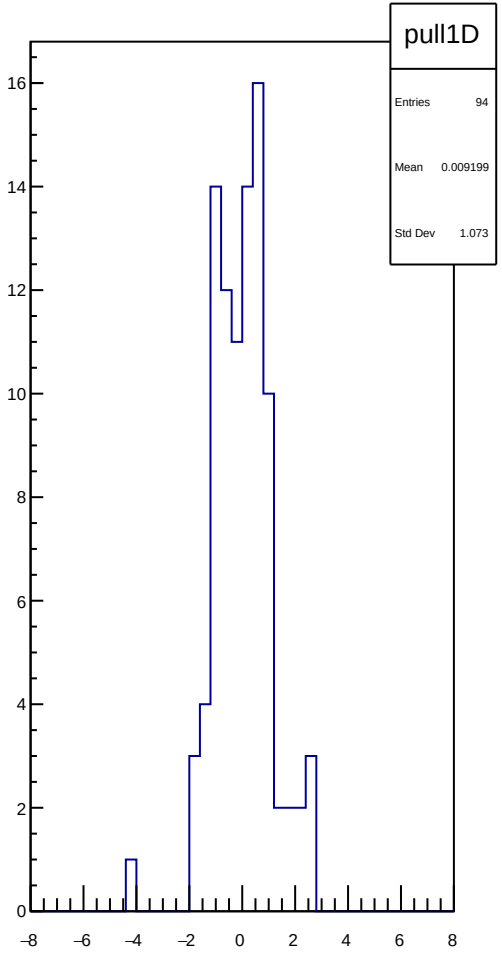

yield_sam8_rms vs run
χ² / ndf 2.328e+05 / 93
p0 0.01009 ± 8.013e–06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

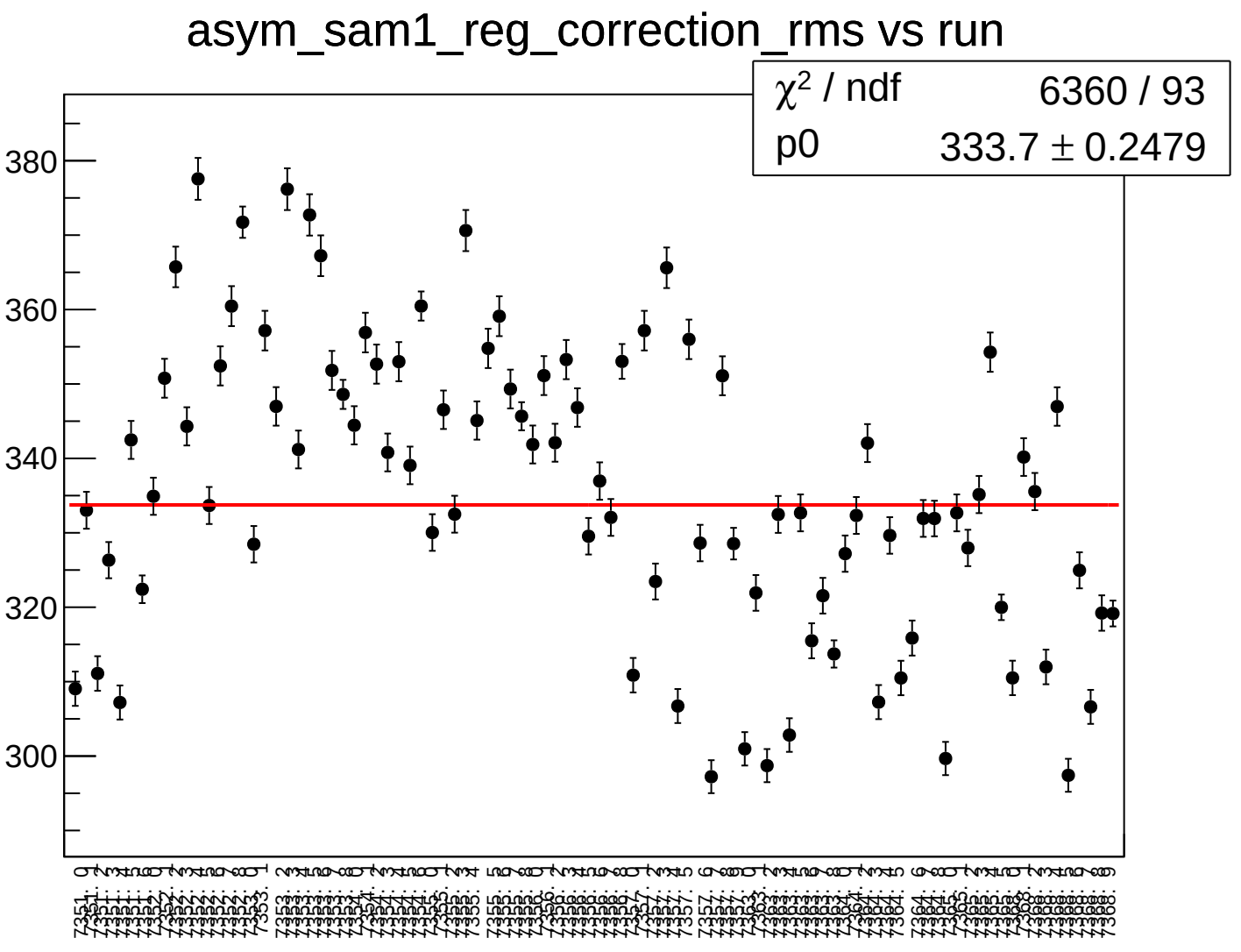

reg_asym_sam1_mean vs run
χ² / ndf 121.1 / 93
p0 76.38 ± 91.02
pull
Entries 94
Mean 545.5
Std Dev 0

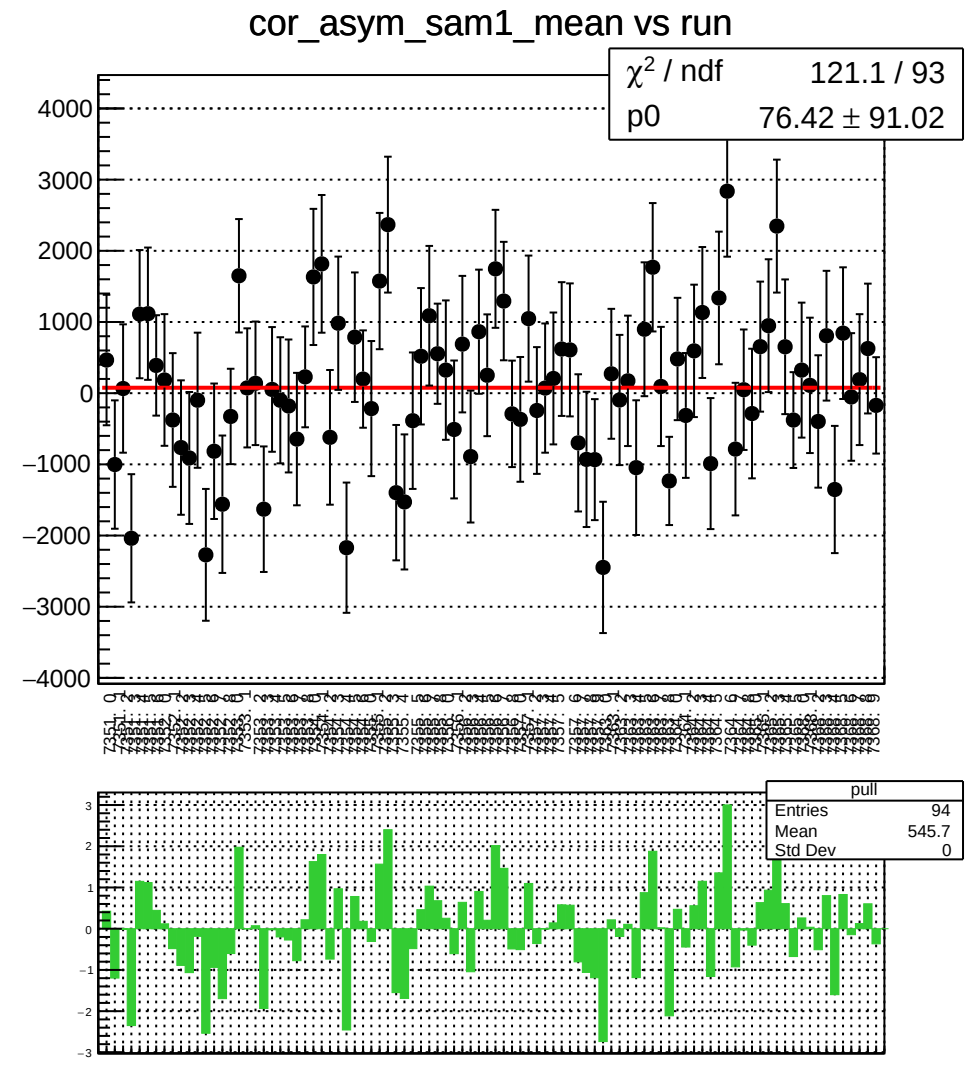

pull1D
Entries 94
Mean 0.008886
Std Dev 1.135

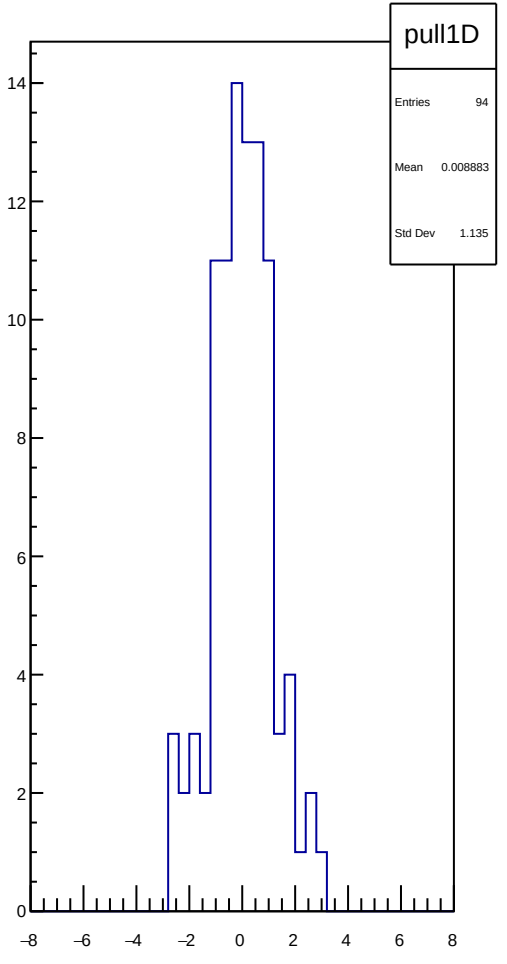

reg_asym_sam1_rms vs run
χ^2 / ndf 3759 / 93
p0 86.7 ± 0.06436
95
90
85
80
75

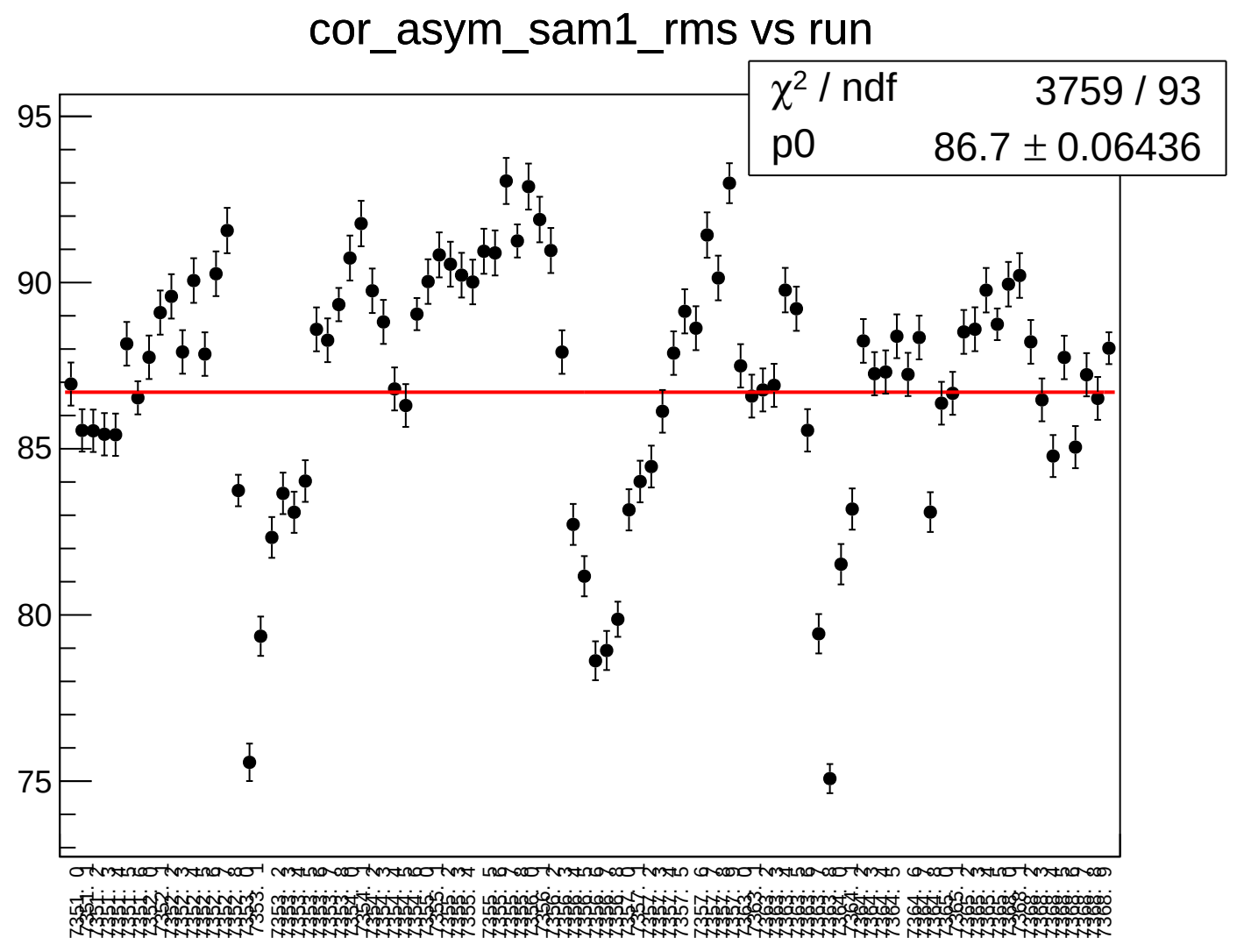

asym_sam1_reg_correction_mean vs run
χ² / ndf 108.2 / 93
p0 206.5 ± 350.6
15000
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 343.8
Std Dev 0
2
1
0
−1
−2
−3
−4

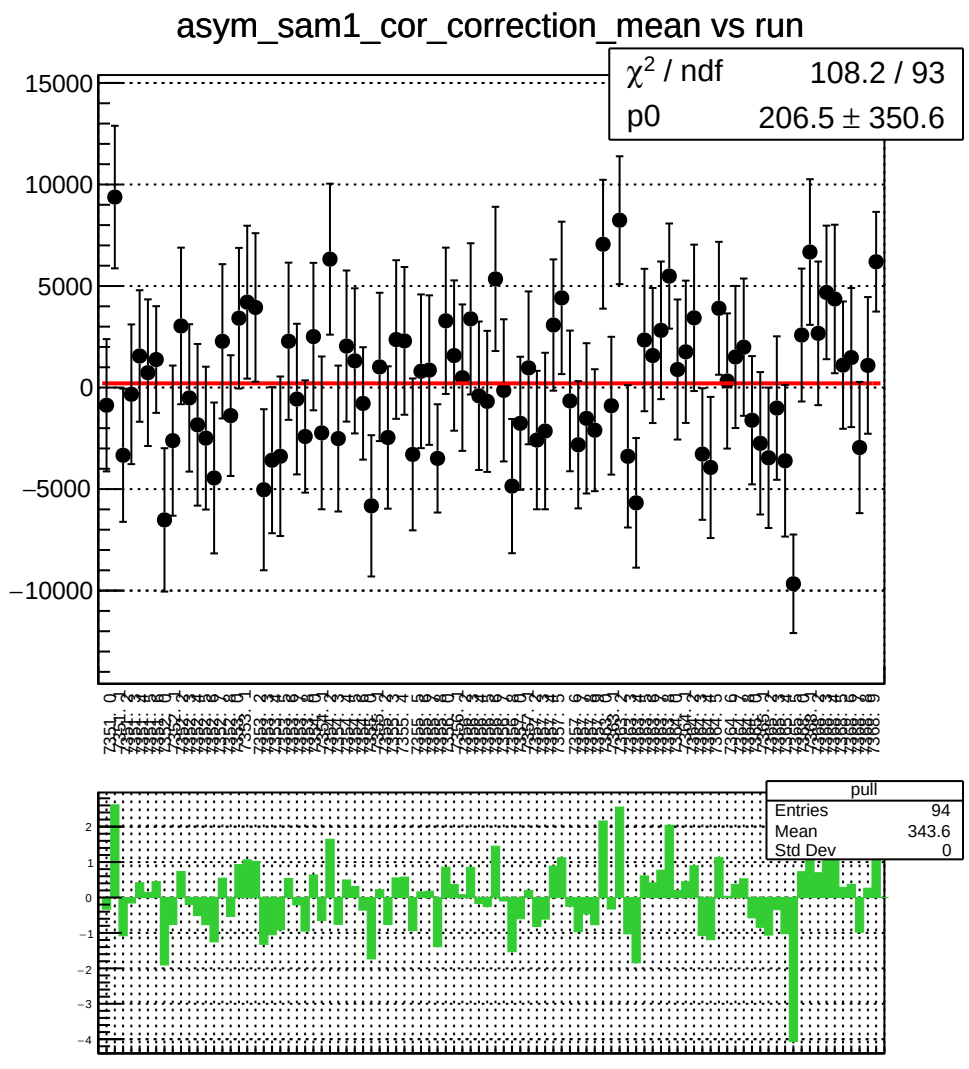

pull1D
Entries 94
Mean 0.009199
Std Dev 1.073
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

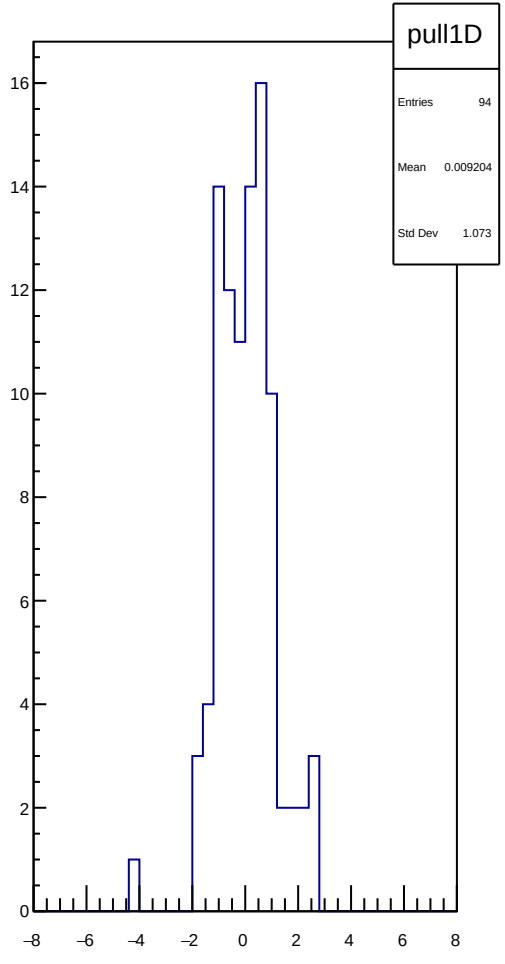

asym_sam1_reg_correction_rms vs run
χ² / ndf 6360 / 93
p0 333.7 ± 0.2479
380
360
340
320
300

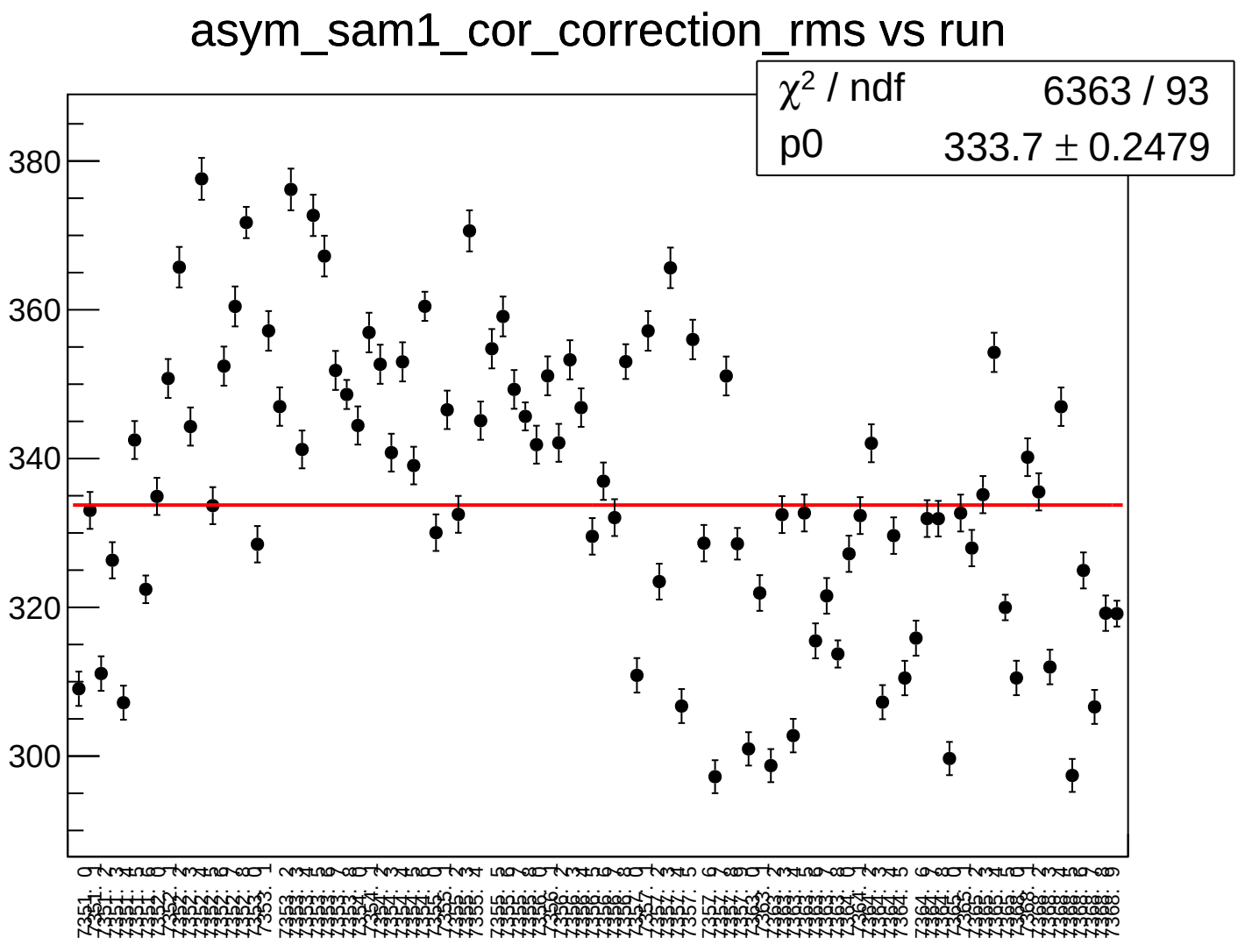

cor_asym_sam1_mean vs run
χ² / ndf 121.1 / 93
p0 76.42 ± 91.02
pull
Entries 94
Mean 545.7
Std Dev 0

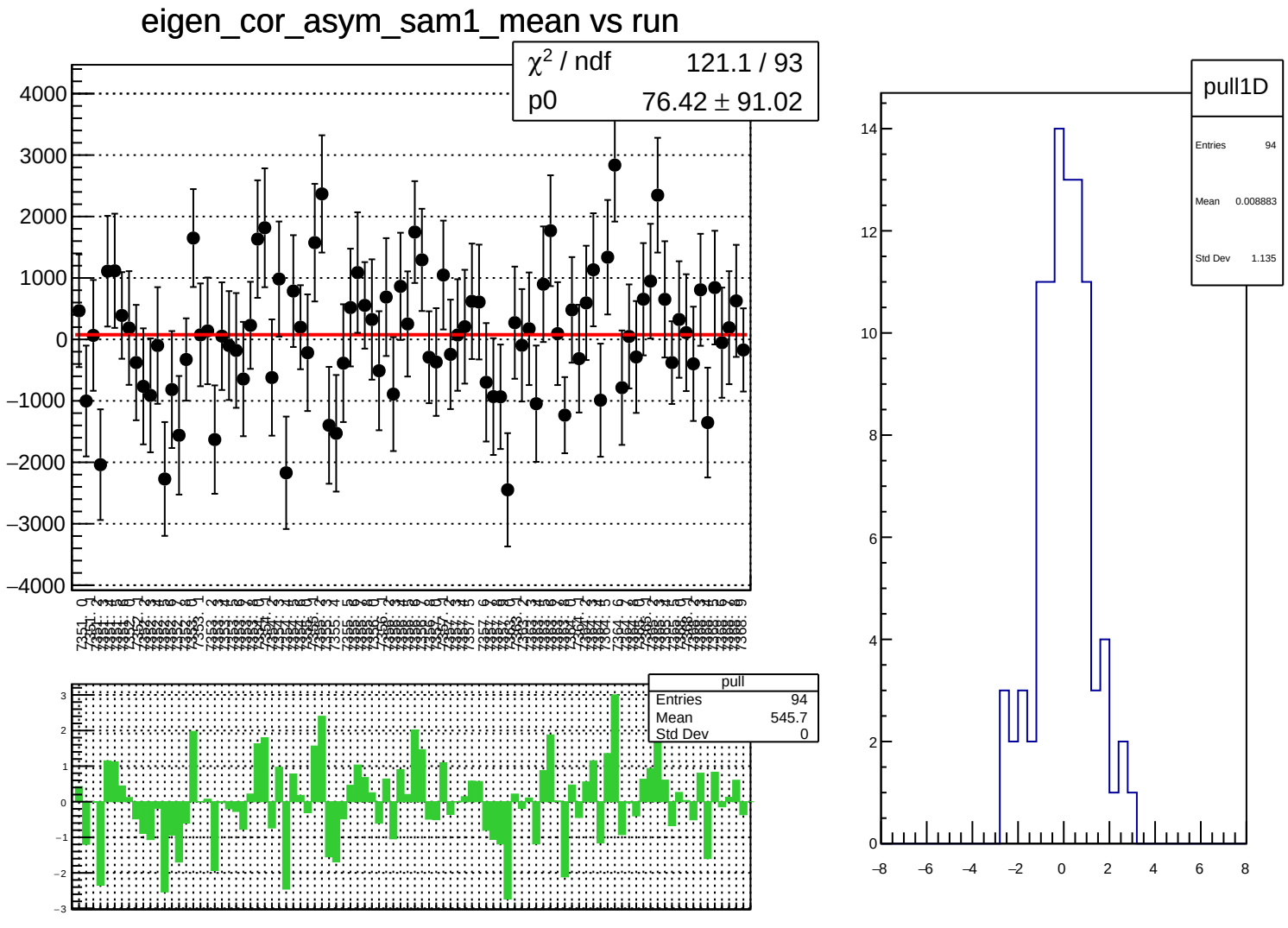

pull1D
Entries 94
Mean 0.008883
Std Dev 1.135

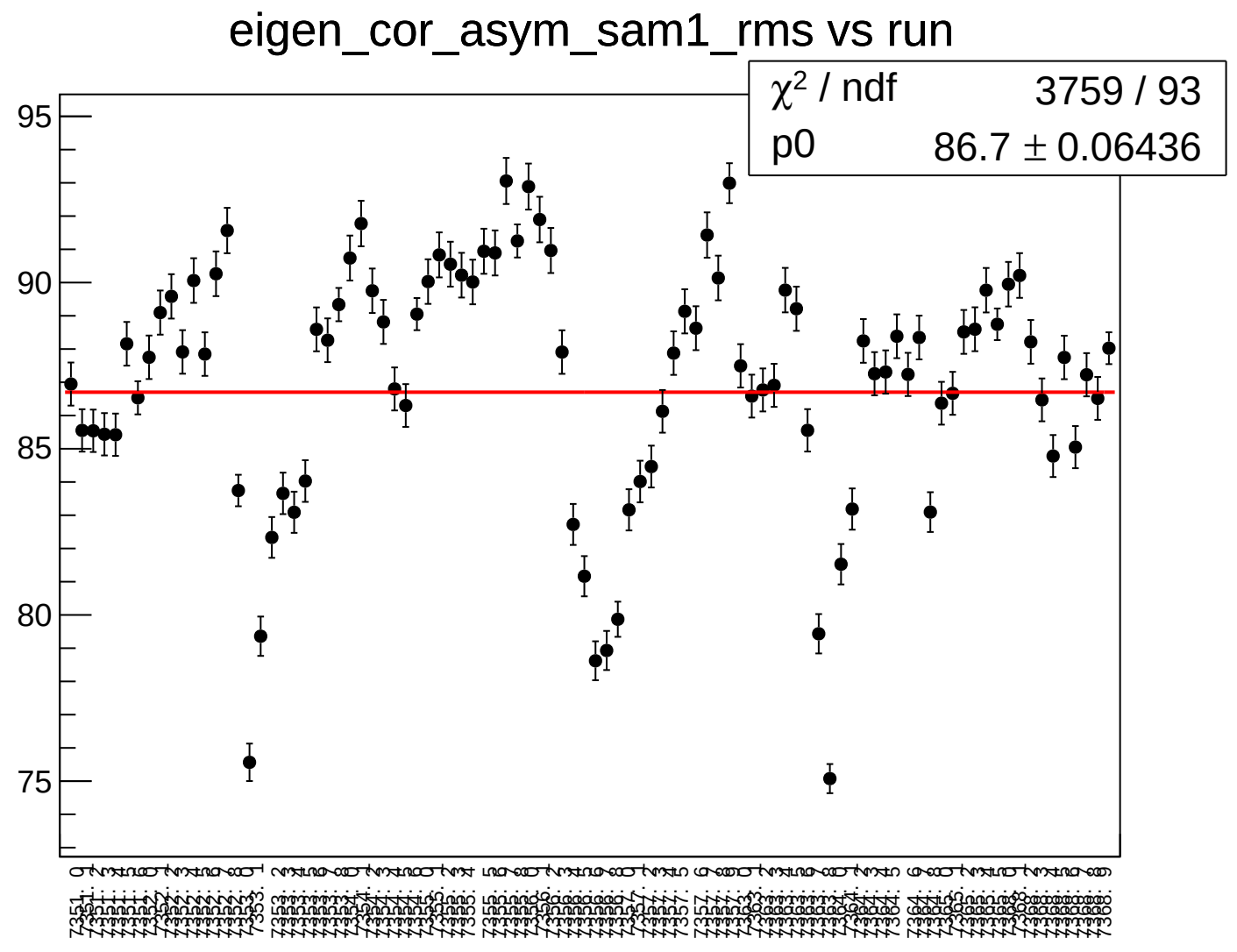

cor_asym_sam1_rms vs run
χ^2 / ndf 3759 / 93
p0 86.7 ± 0.06436
95
90
85
80
75

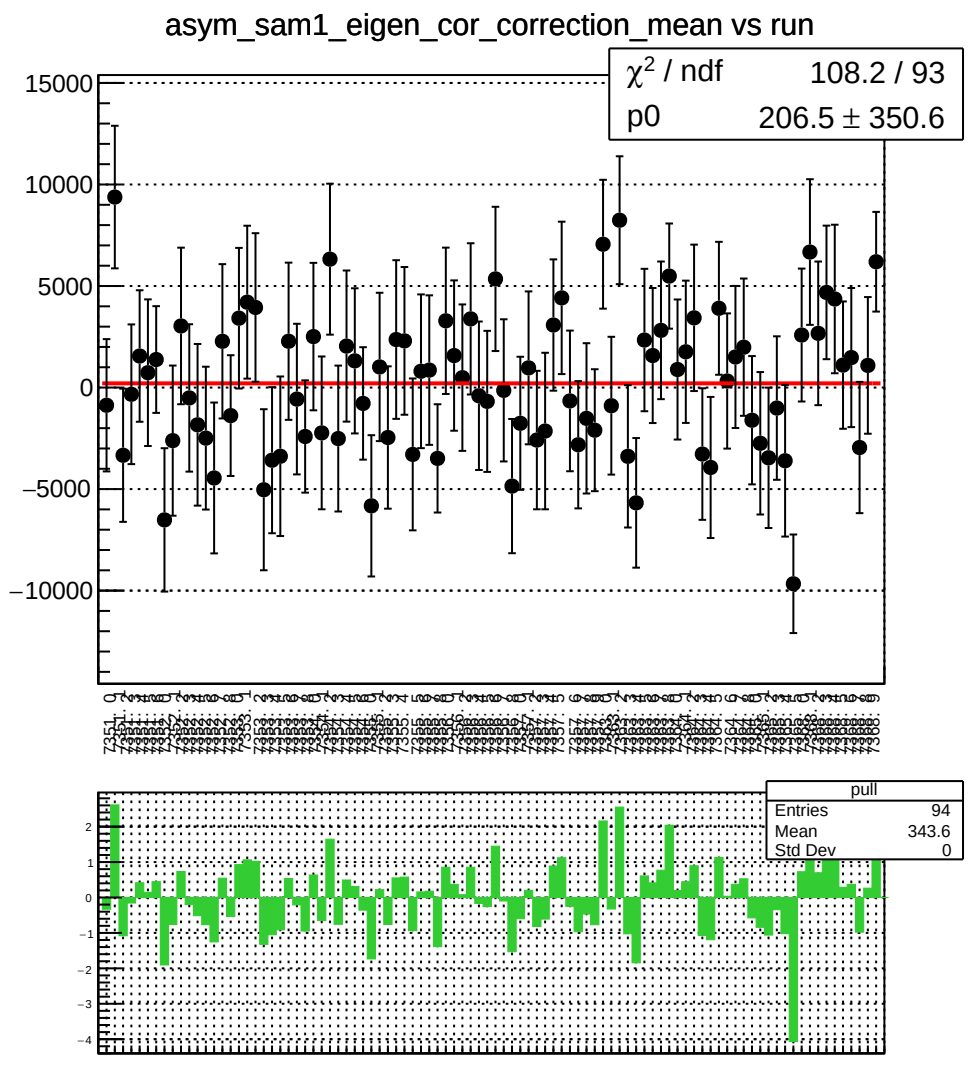

asym_sam1_cor_correction_mean vs run
χ² / ndf 108.2 / 93
p0 206.5 ± 350.6
15000
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 343.6
Std Dev 0
2
1
0
−1
−2
−3
−4

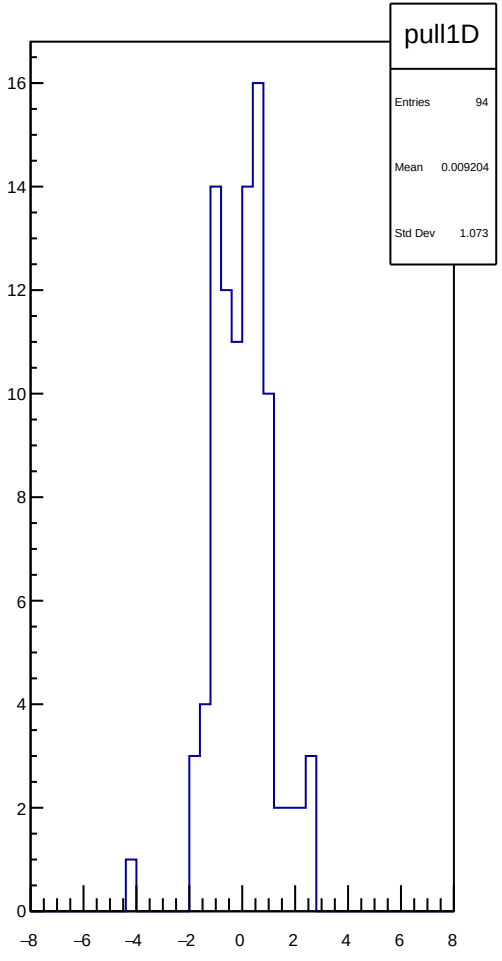

pull1D
Entries 94
Mean 0.009204
Std Dev 1.073
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

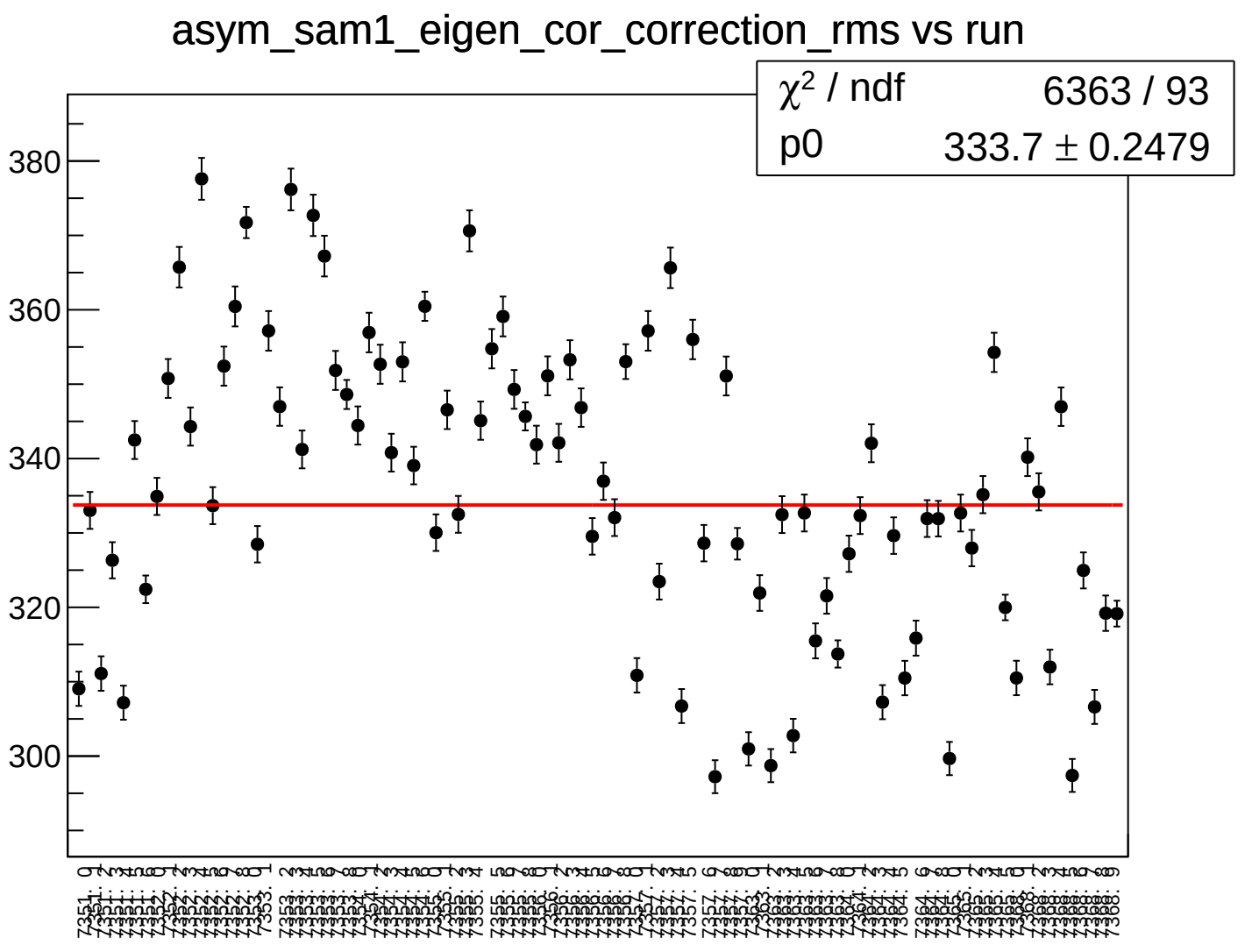

asym_sam1_cor_correction_rms vs run
χ² / ndf 6363 / 93
p0 333.7 ± 0.2479
380
360
340
320
300

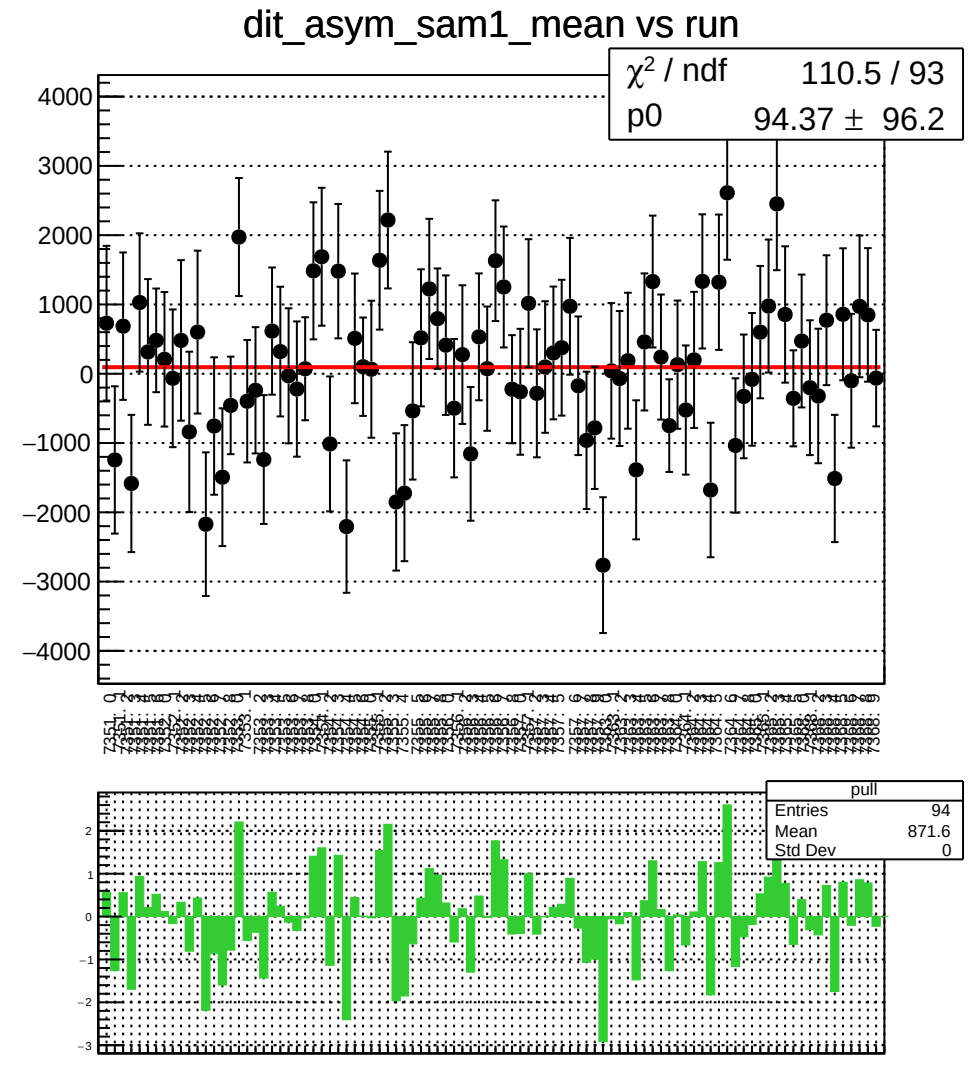

eigen_cor_asym_sam1_mean vs run
χ² / ndf 121.1 / 93
p0 76.42 ± 91.02
pull
Entries 94
Mean 545.7
Std Dev 0
pull1D
Entries 94
Mean 0.008883
Std Dev 1.135

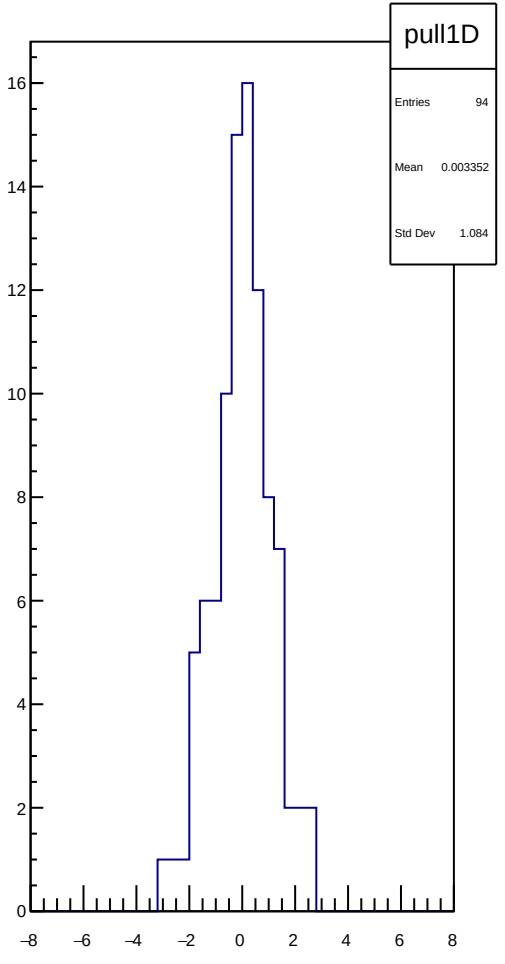

eigen_cor_asym_sam1_rms vs run
χ² / ndf 3759 / 93
p0 86.7 ± 0.06436
95
90
85
80
75

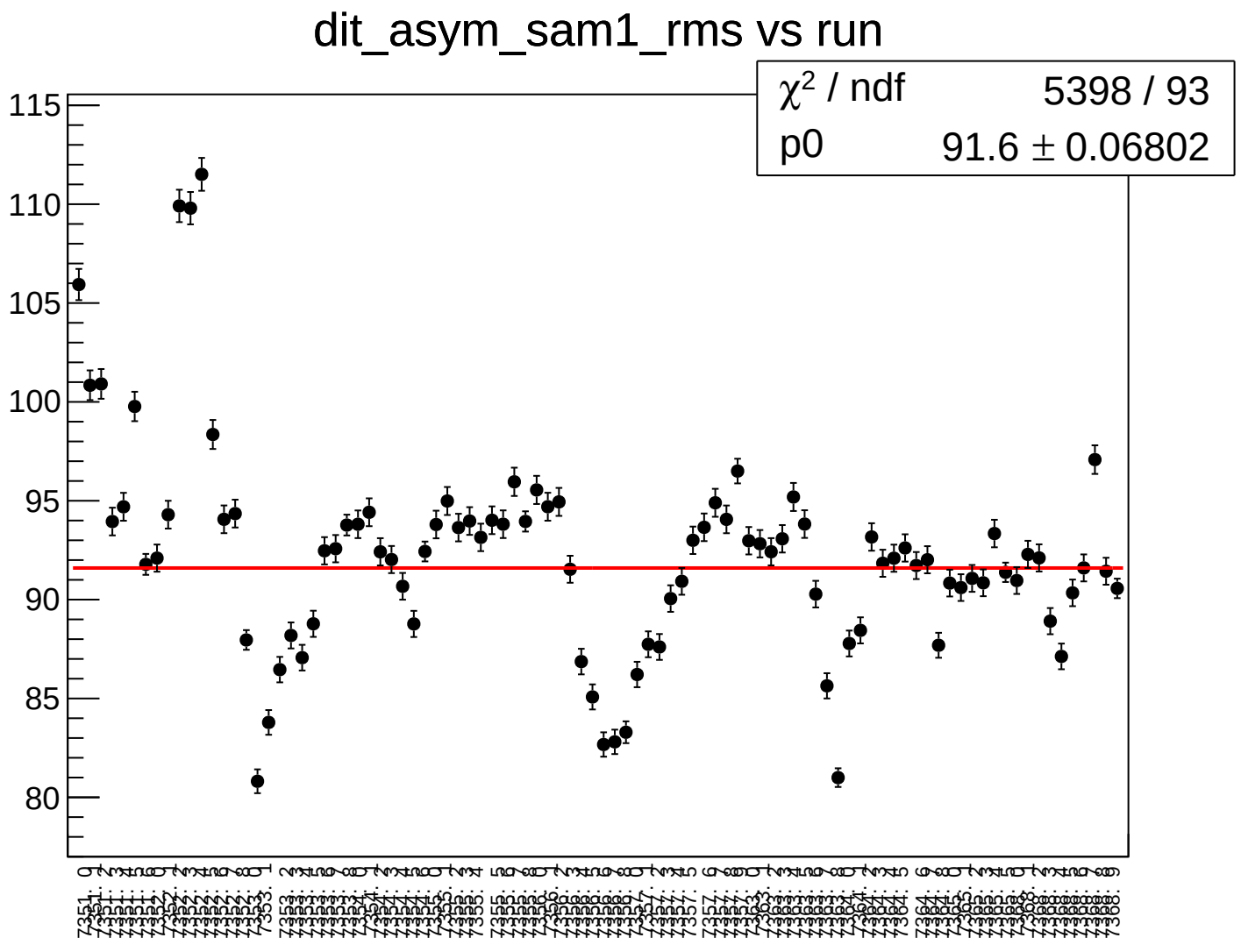

asym_sam1_eigen_cor_correction_mean vs run
χ² / ndf 108.2 / 93
p0 206.5 ± 350.6
15000
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 343.6
Std Dev 0
2
1
0
−1
−2
−3
−4

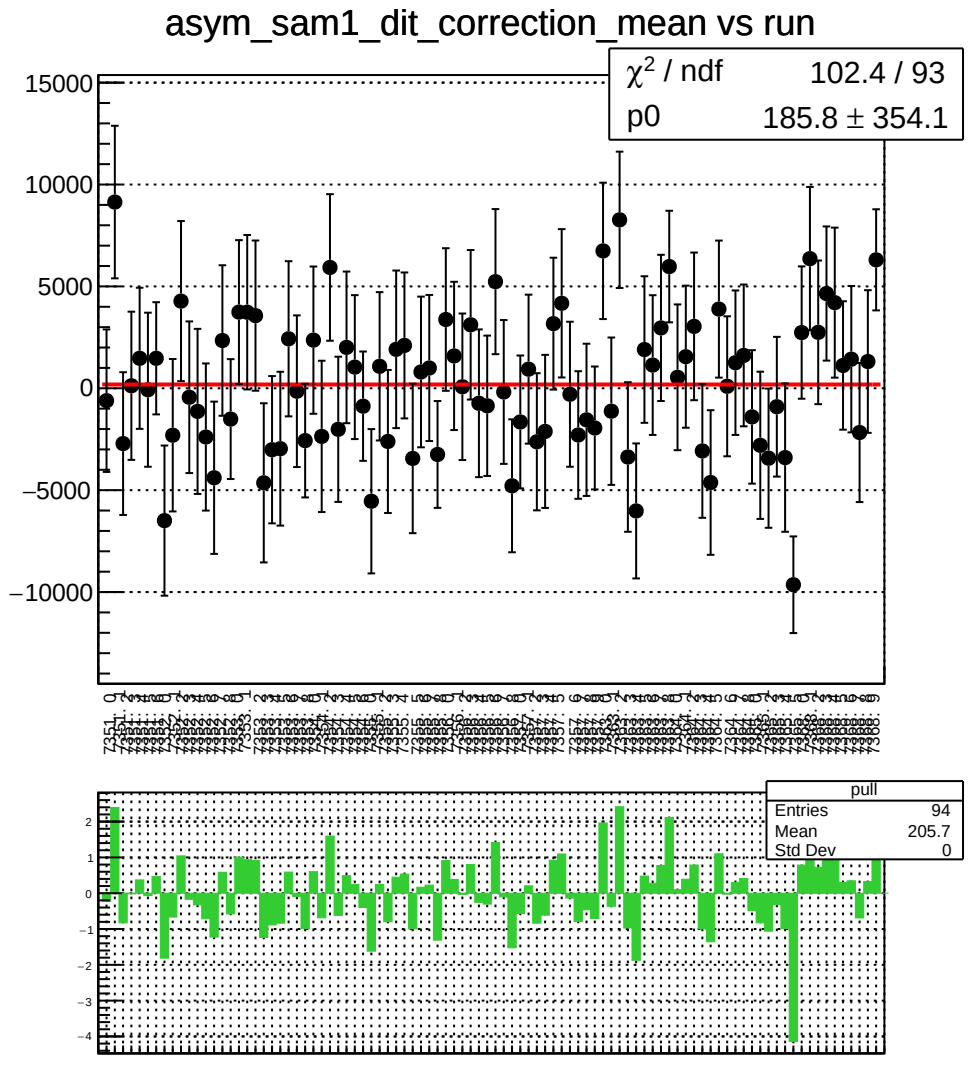

pull1D
Entries 94
Mean 0.009204
Std Dev 1.073
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

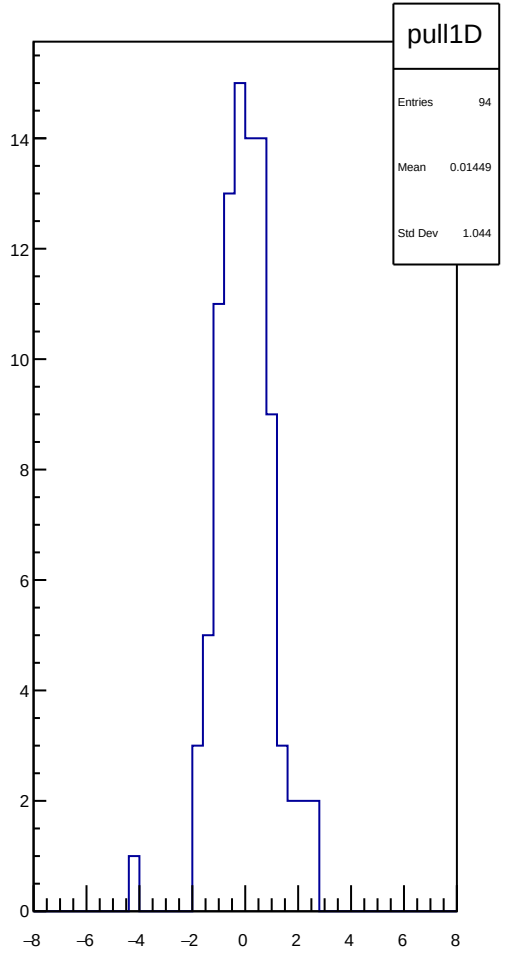

asym_sam1_eigen_cor_correction_rms vs run
χ² / ndf 6363 / 93
p0 333.7 ± 0.2479
380
360
340
320
300

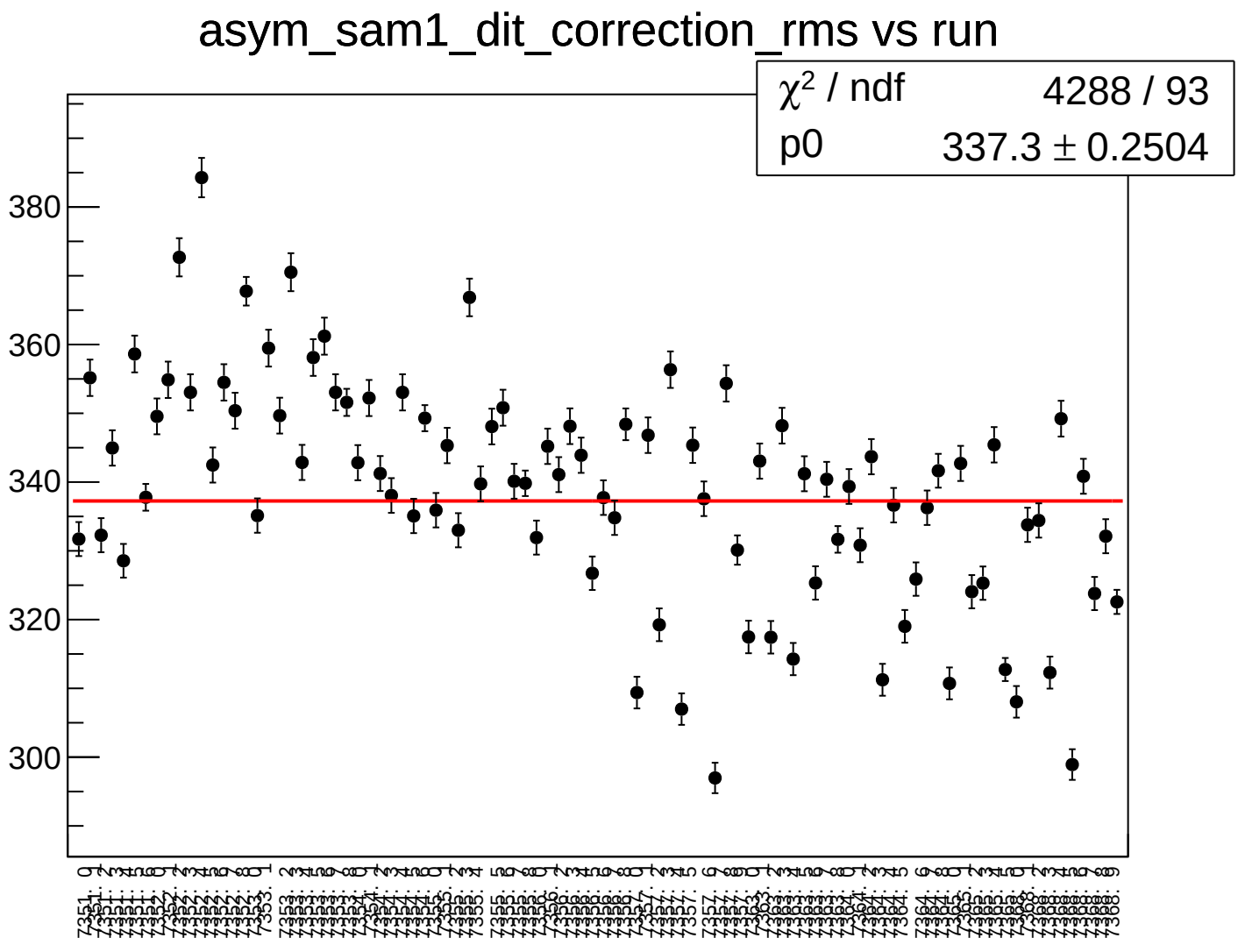

dit_asym_sam1_mean vs run
χ² / ndf 110.5 / 93
p0 94.37 ± 96.2
pull
Entries 94
Mean 871.6
Std Dev 0

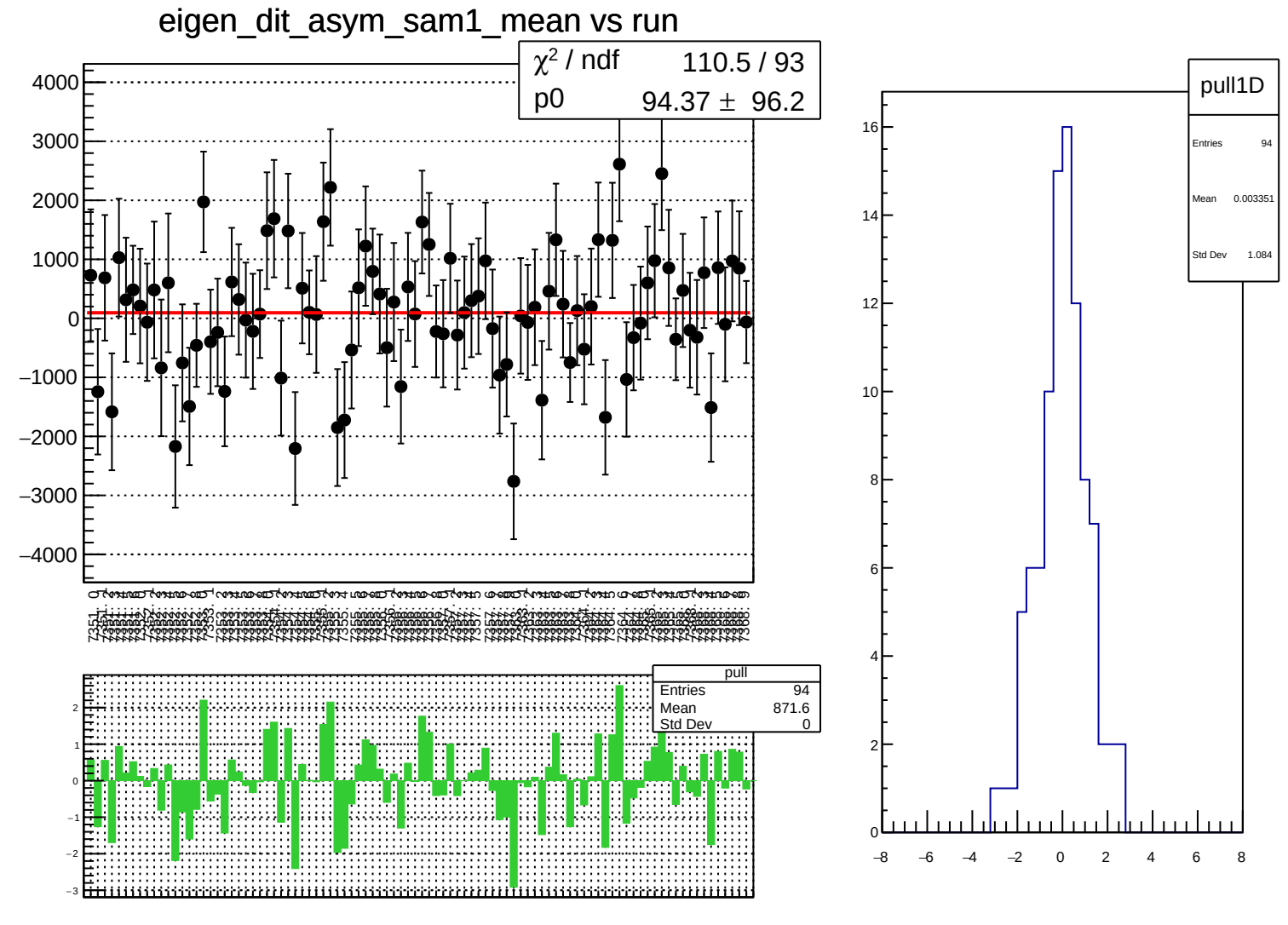

pull1D
Entries 94
Mean 0.003352
Std Dev 1.084

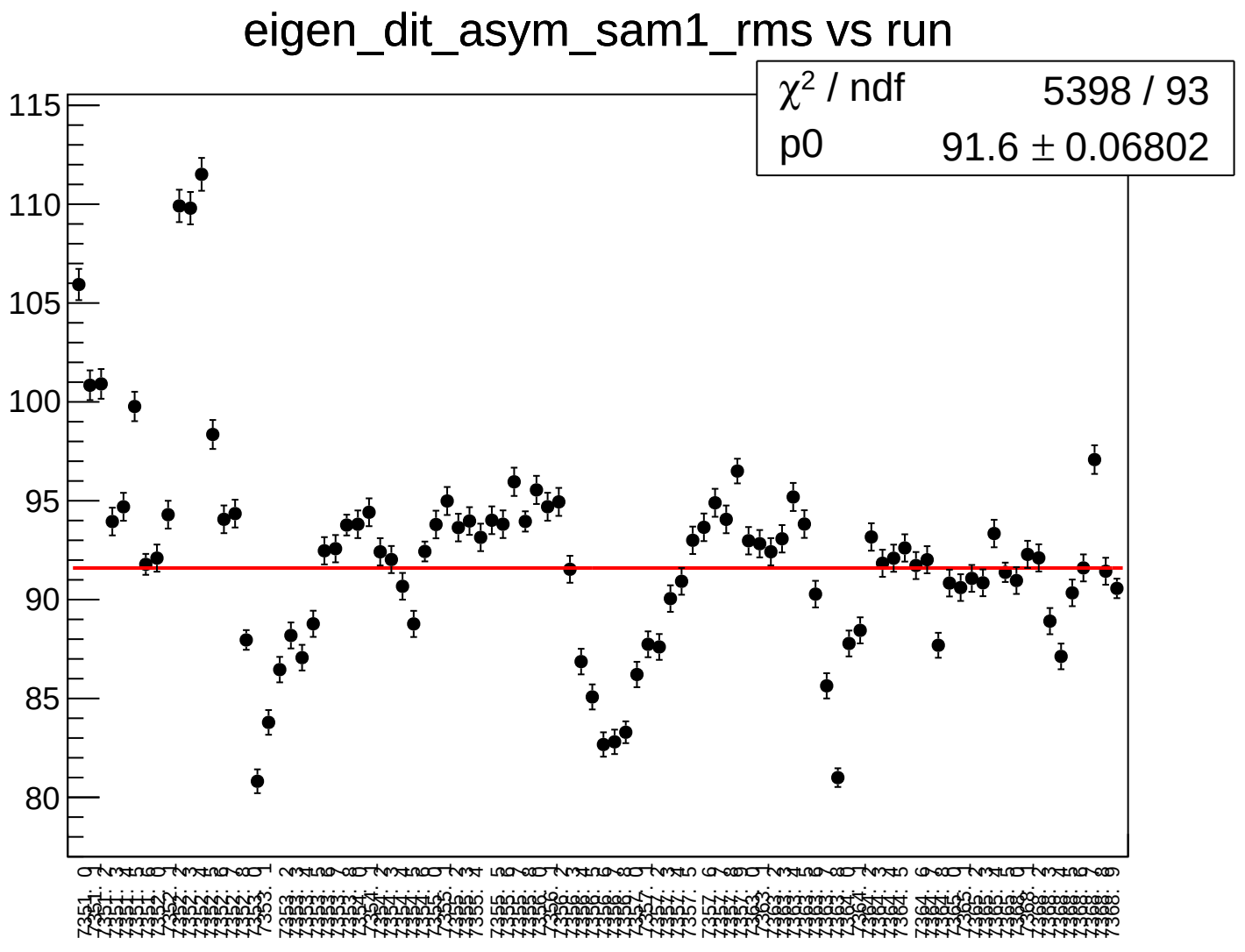

dit_asym_sam1_rms vs run
χ^2 / ndf 5398 / 93
p0 91.6 ± 0.06802
115
110
105
100
95
90
85
80

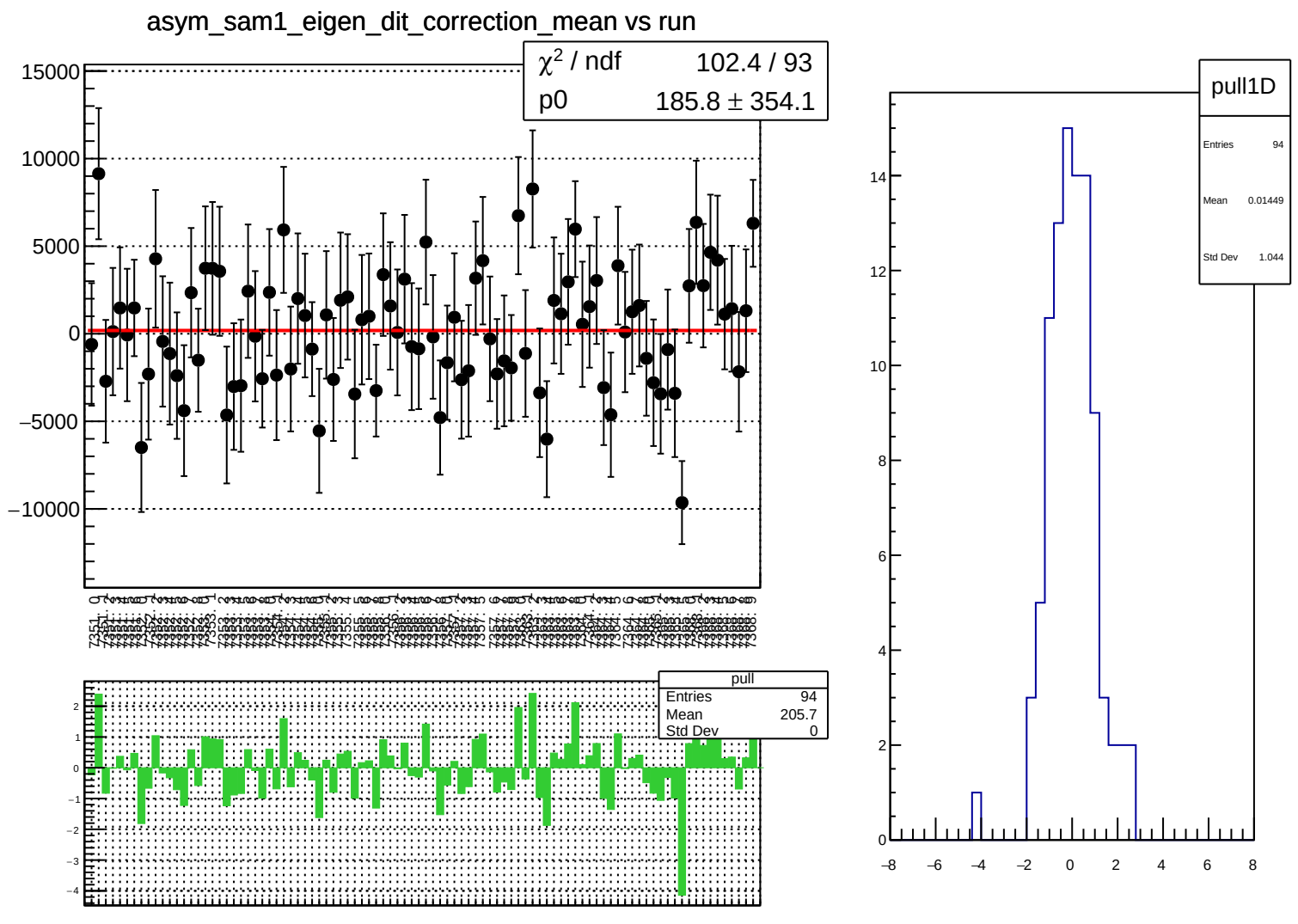

asym_sam1_dit_correction_mean vs run
χ² / ndf 102.4 / 93
p0 185.8 ± 354.1
15000
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 205.7
Std Dev 0
2
1
0
−1
−2
−3
−4

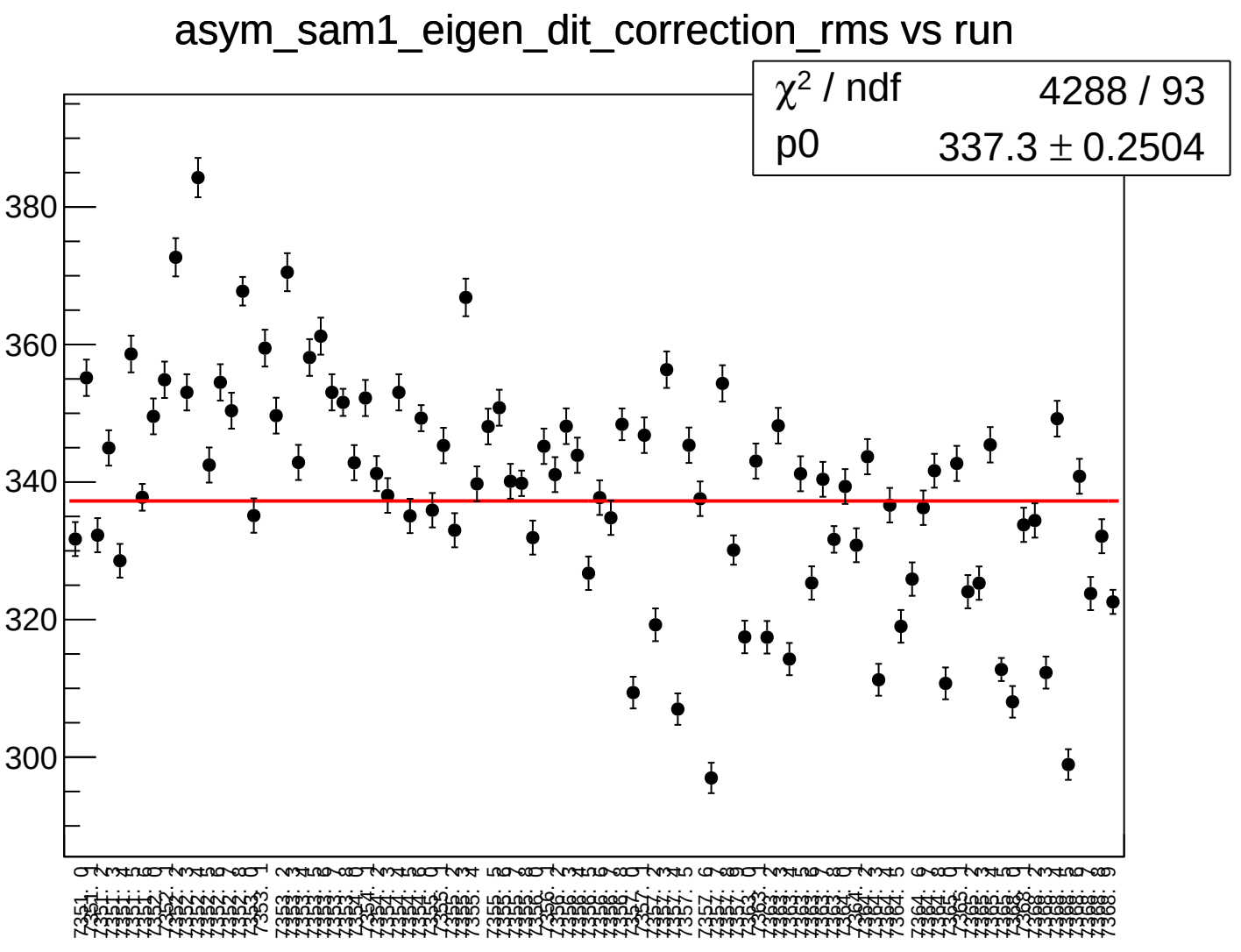

pull1D
Entries 94
Mean 0.01449
Std Dev 1.044
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

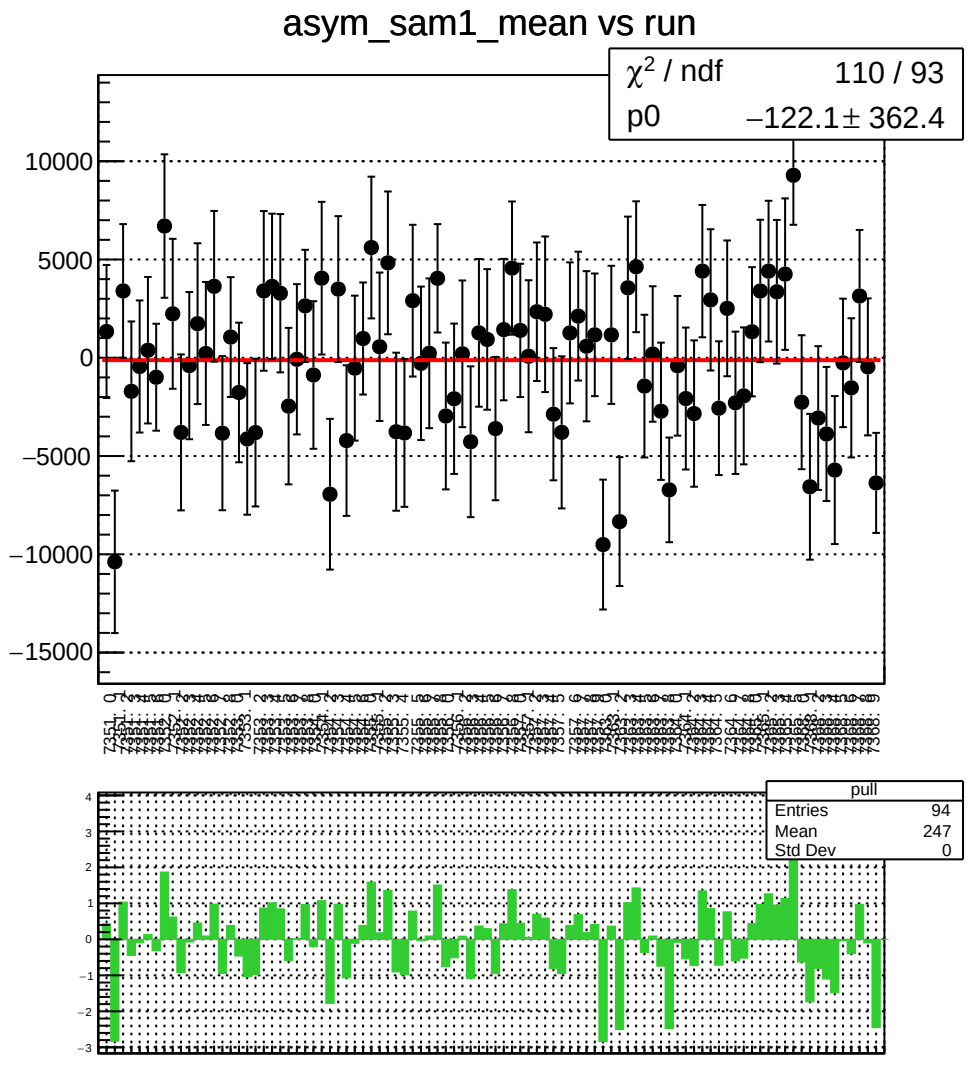

asym_sam1_dit_correction_rms vs run
χ² / ndf 4288 / 93
p0 337.3 ± 0.2504
380
360
340
320
300

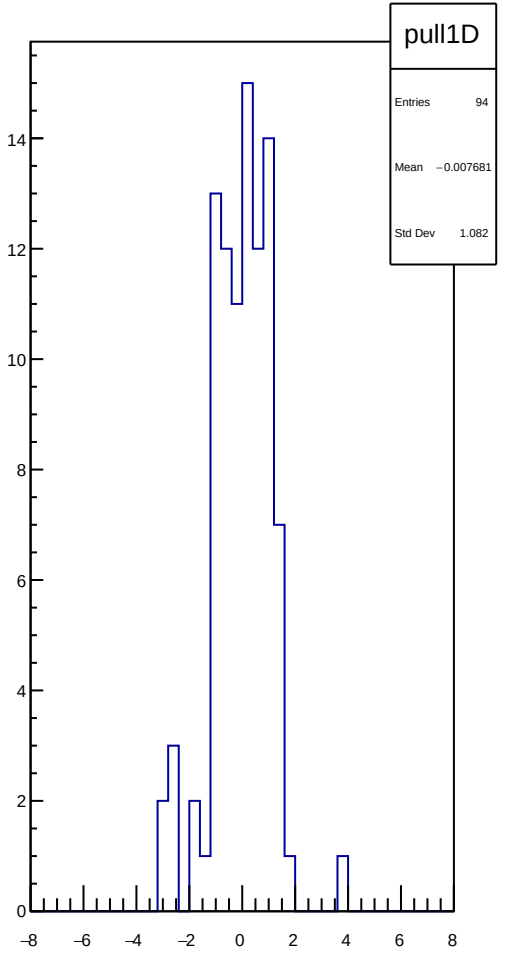

eigen_dit_asym_sam1_mean vs run
χ² / ndf 110.5 / 93
p0 94.37 ± 96.2
pull
Entries 94
Mean 871.6
Std Dev 0
pull1D
Entries 94
Mean 0.003351
Std Dev 1.084

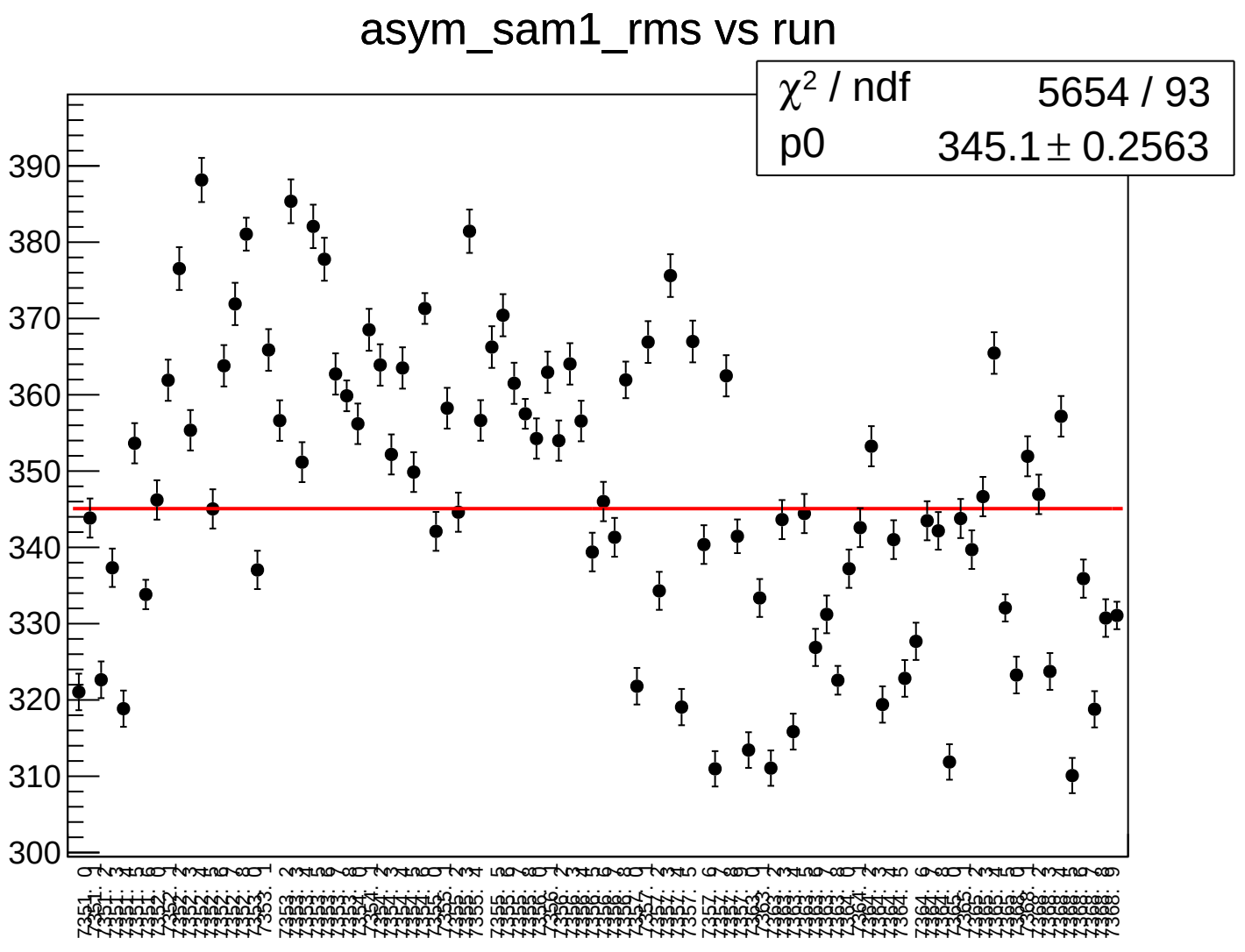

eigen_dit_asym_sam1_rms vs run
χ² / ndf 5398 / 93
p0 91.6 ± 0.06802
115
110
105
100
95
90
85
80

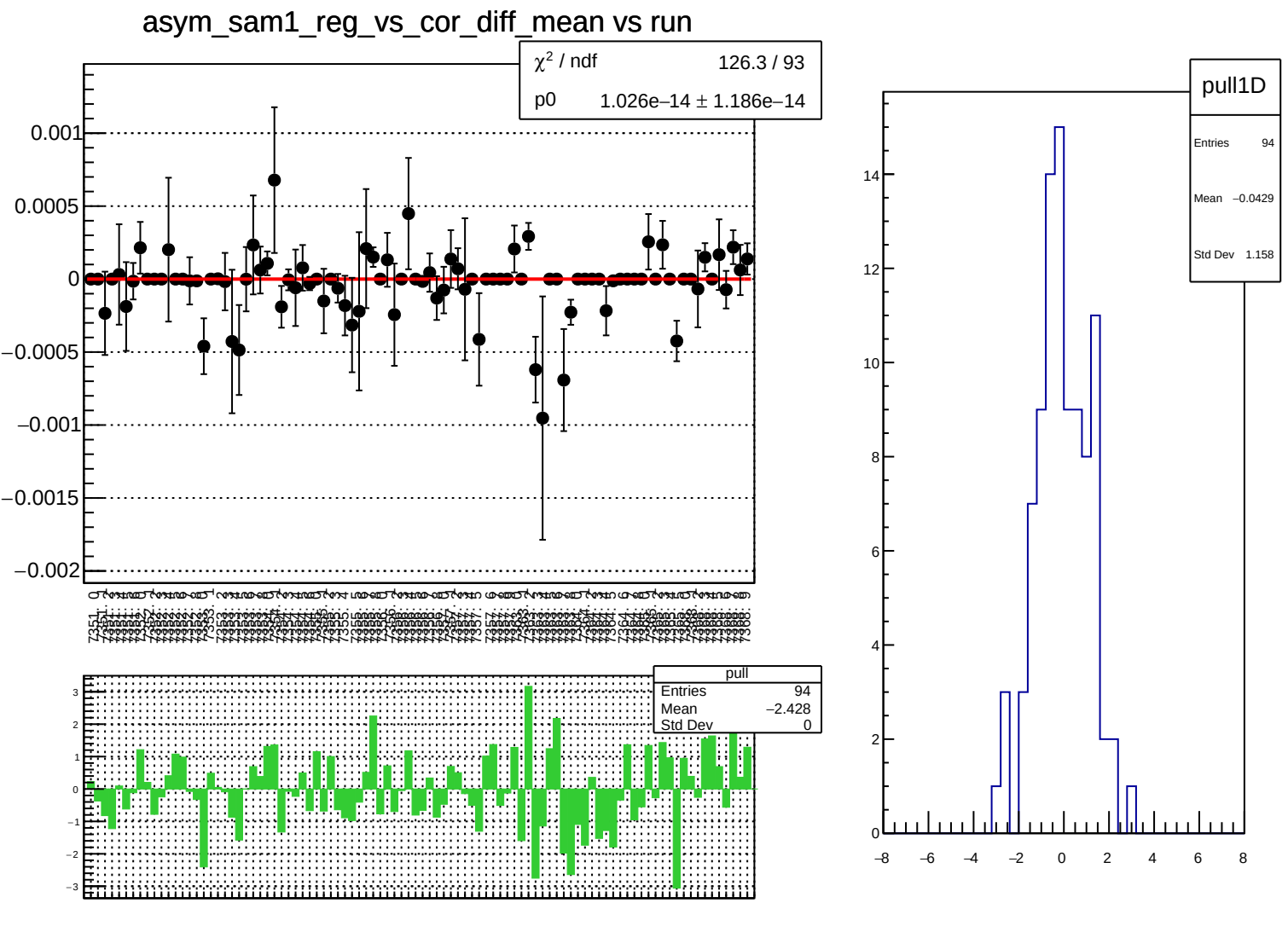

asym_sam1_eigen_dit_correction_mean vs run
χ² / ndf 102.4 / 93
p0 185.8 ± 354.1
15000
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 205.7
Std Dev 0
pull1D
Entries 94
Mean 0.01449
Std Dev 1.044

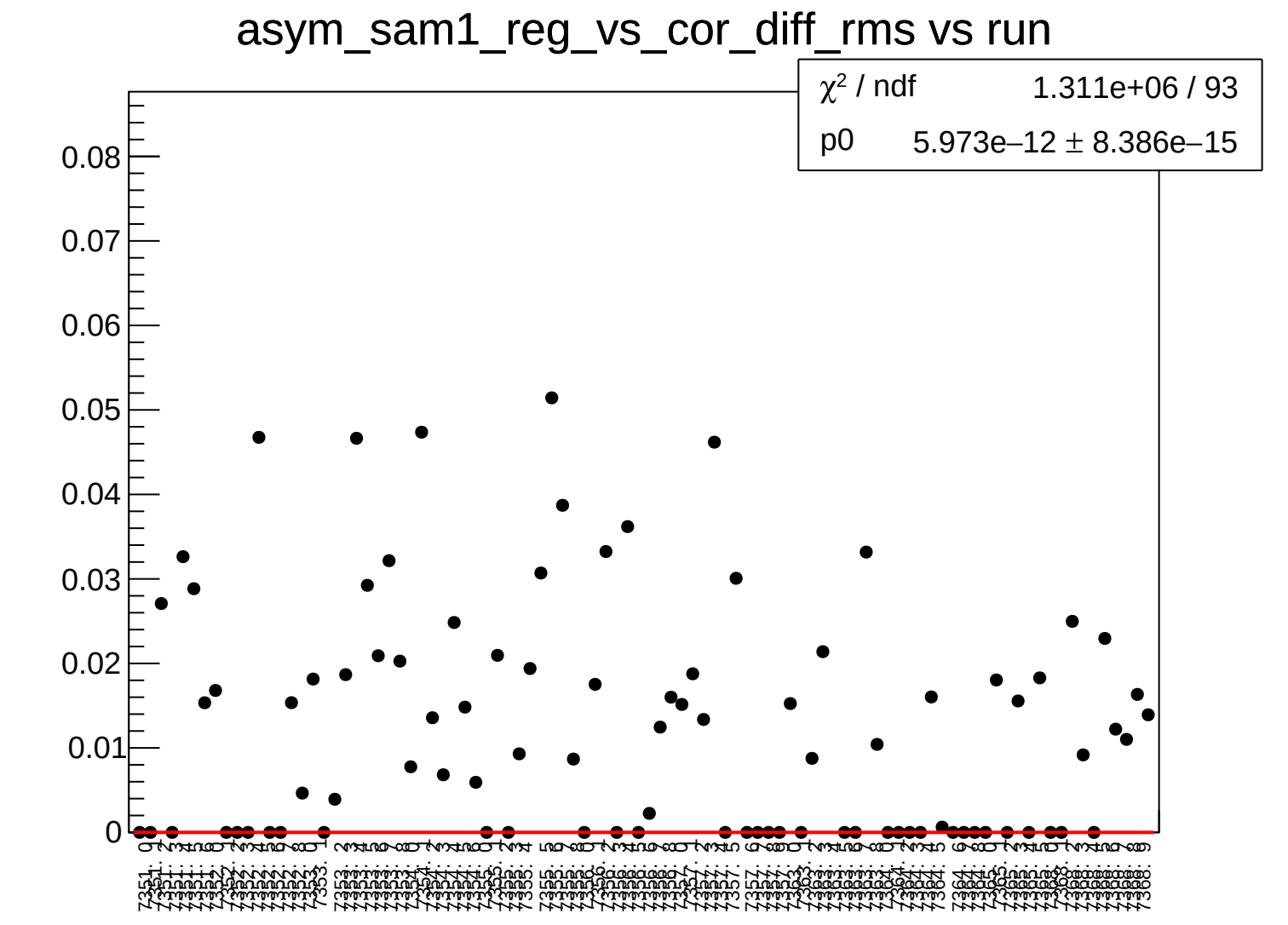

asym_sam1_eigen_dit_correction_rms vs run
χ² / ndf 4288 / 93
p0 337.3 ± 0.2504
380
360
340
320
300

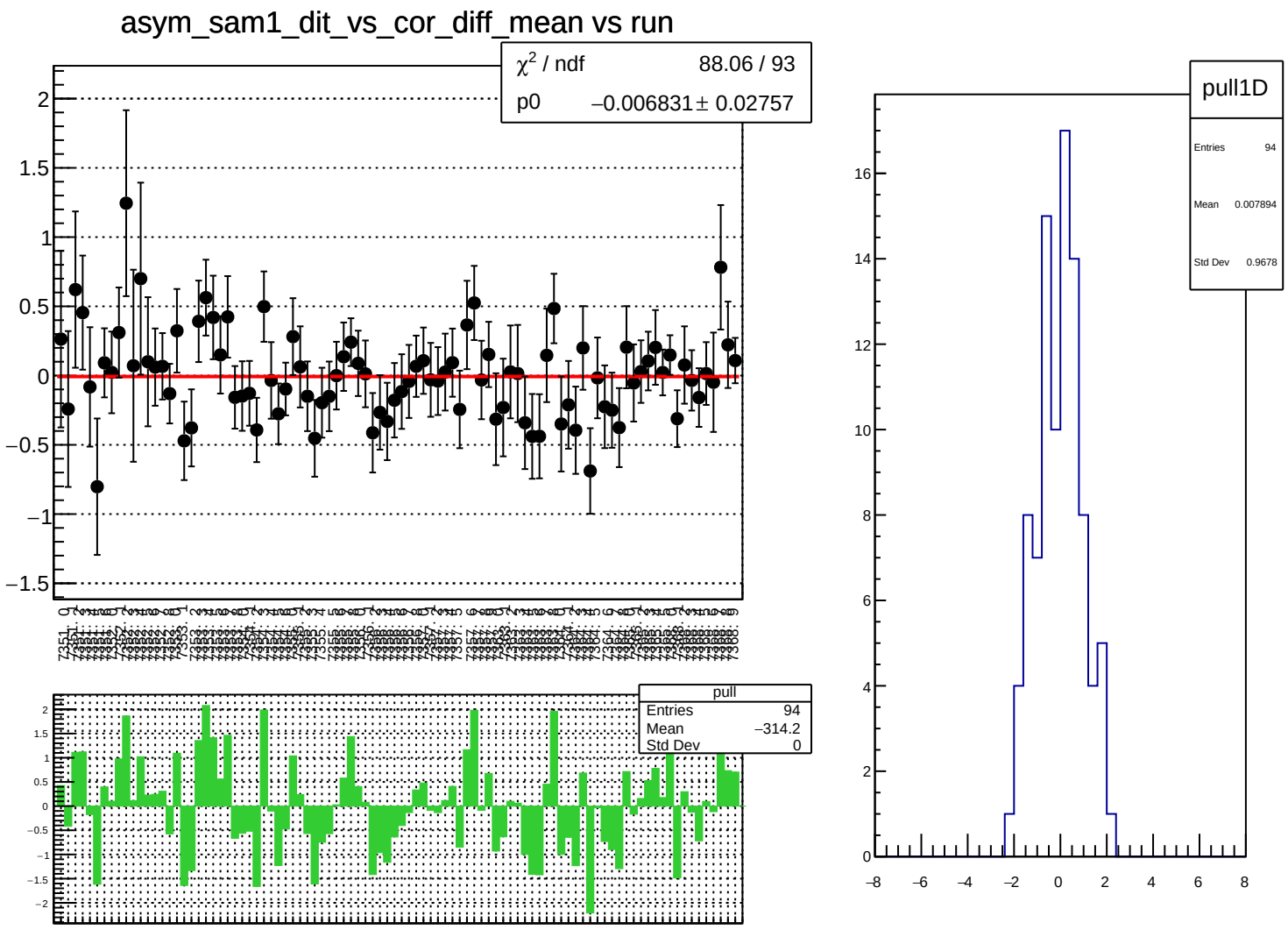

asym_sam1_mean vs run
χ² / ndf 110 / 93
p0 −122.1± 362.4
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean 247
Std Dev 0
4
3
2
1
0
−1
−2
−3

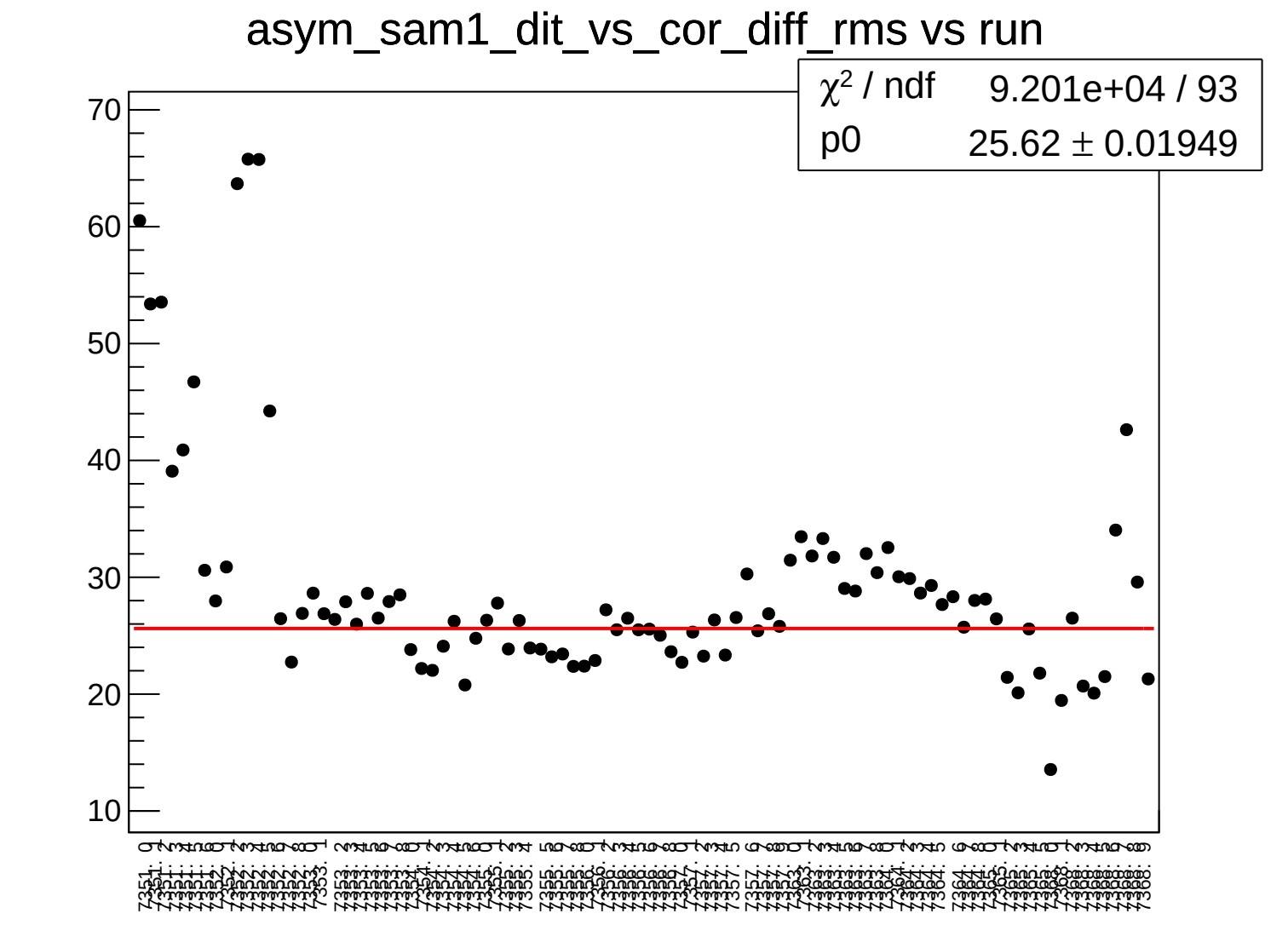

pull1D
Entries 94
Mean −0.007681
Std Dev 1.082
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

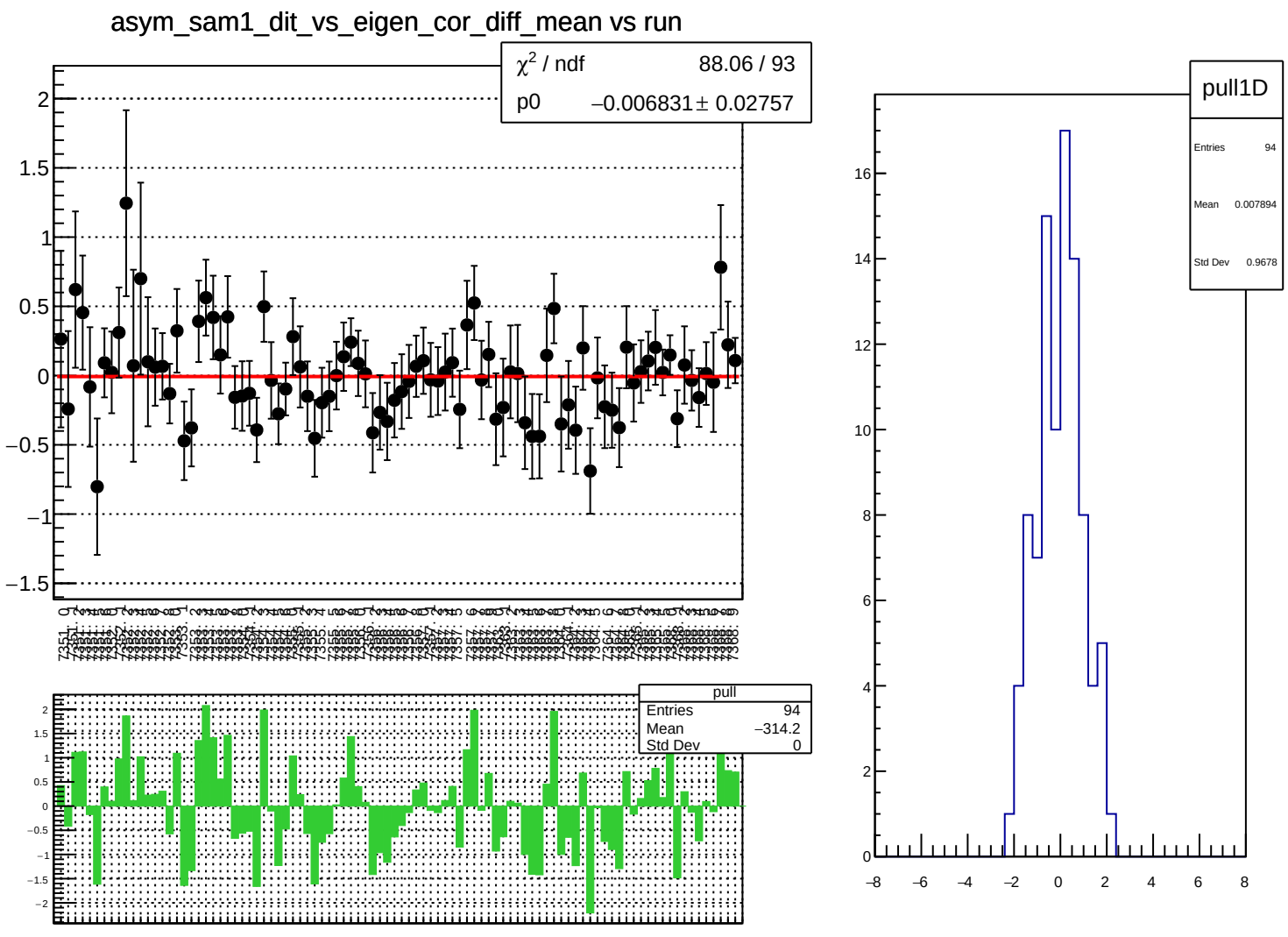

asym_sam1_rms vs run
χ² / ndf 5654 / 93
p0 345.1 ± 0.2563
390
380
370
360
350
340
330
320
310
300

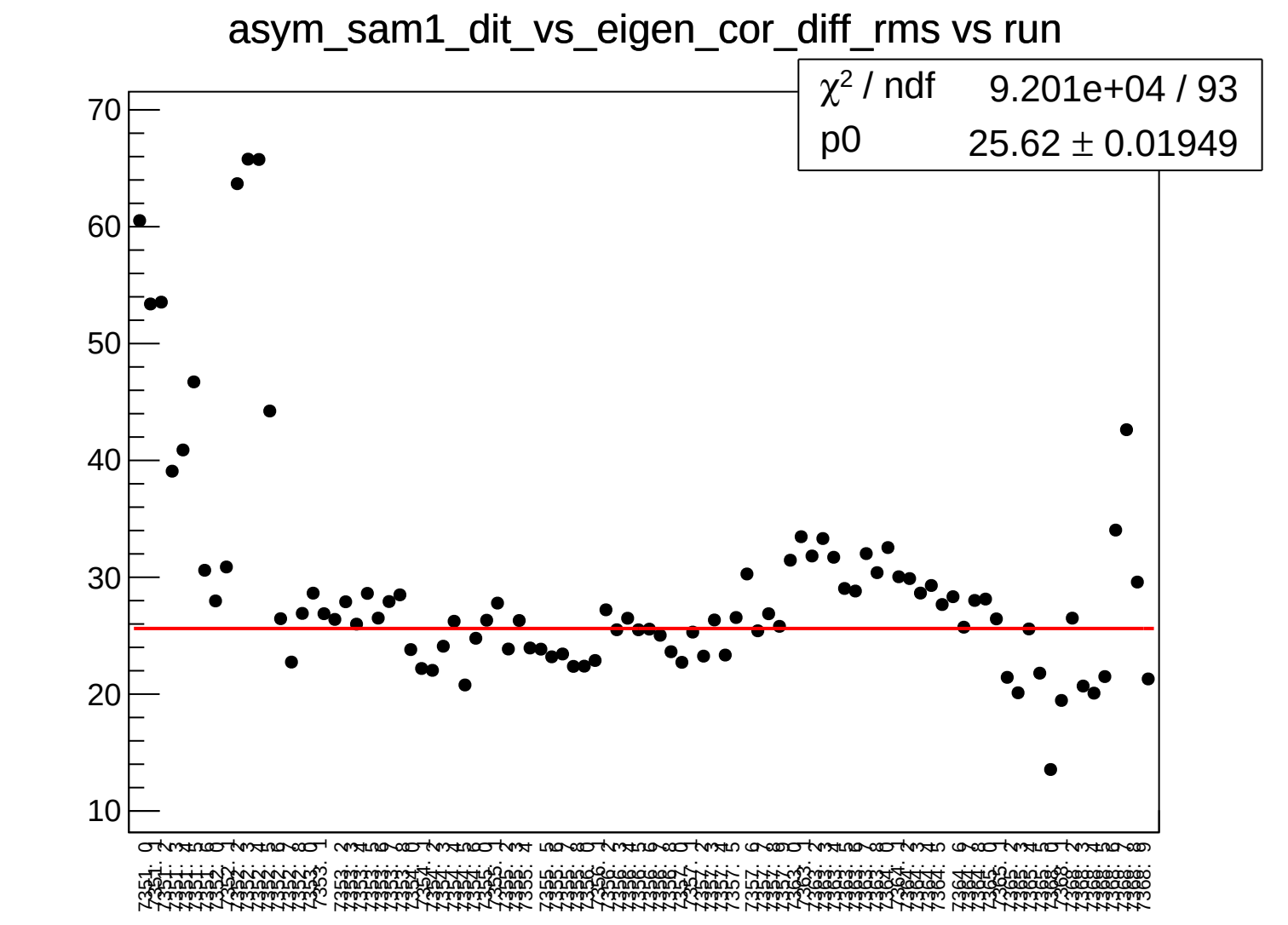

asym_sam1_reg_vs_cor_diff_mean vs run
χ² / ndf 126.3 / 93
p0 1.026e−14 ± 1.186e−14
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 94
Mean −2.428
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.0429
Std Dev 1.158
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

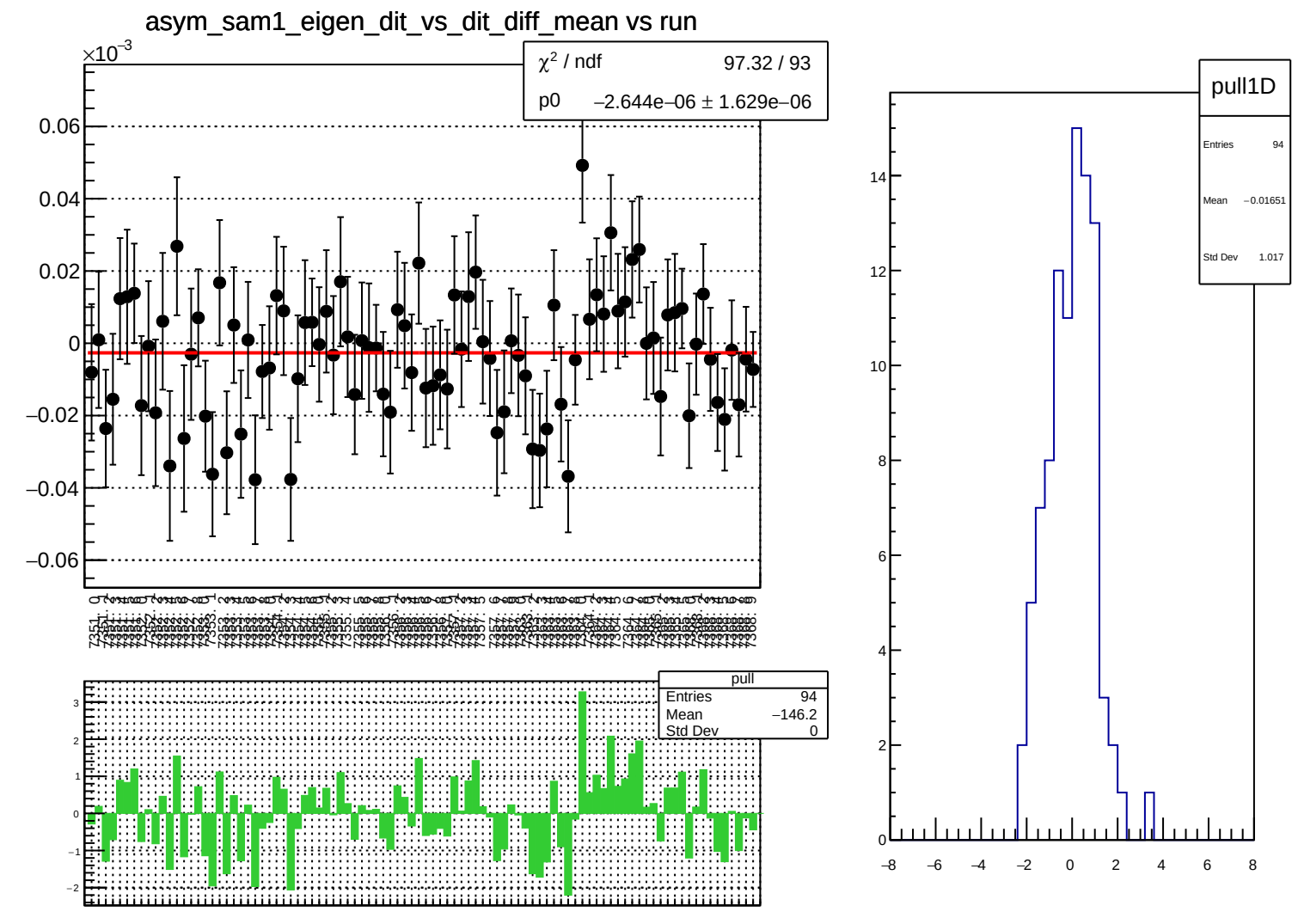

asym_sam1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.311e+06 / 93
p0 5.973e−12 ± 8.386e−15
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

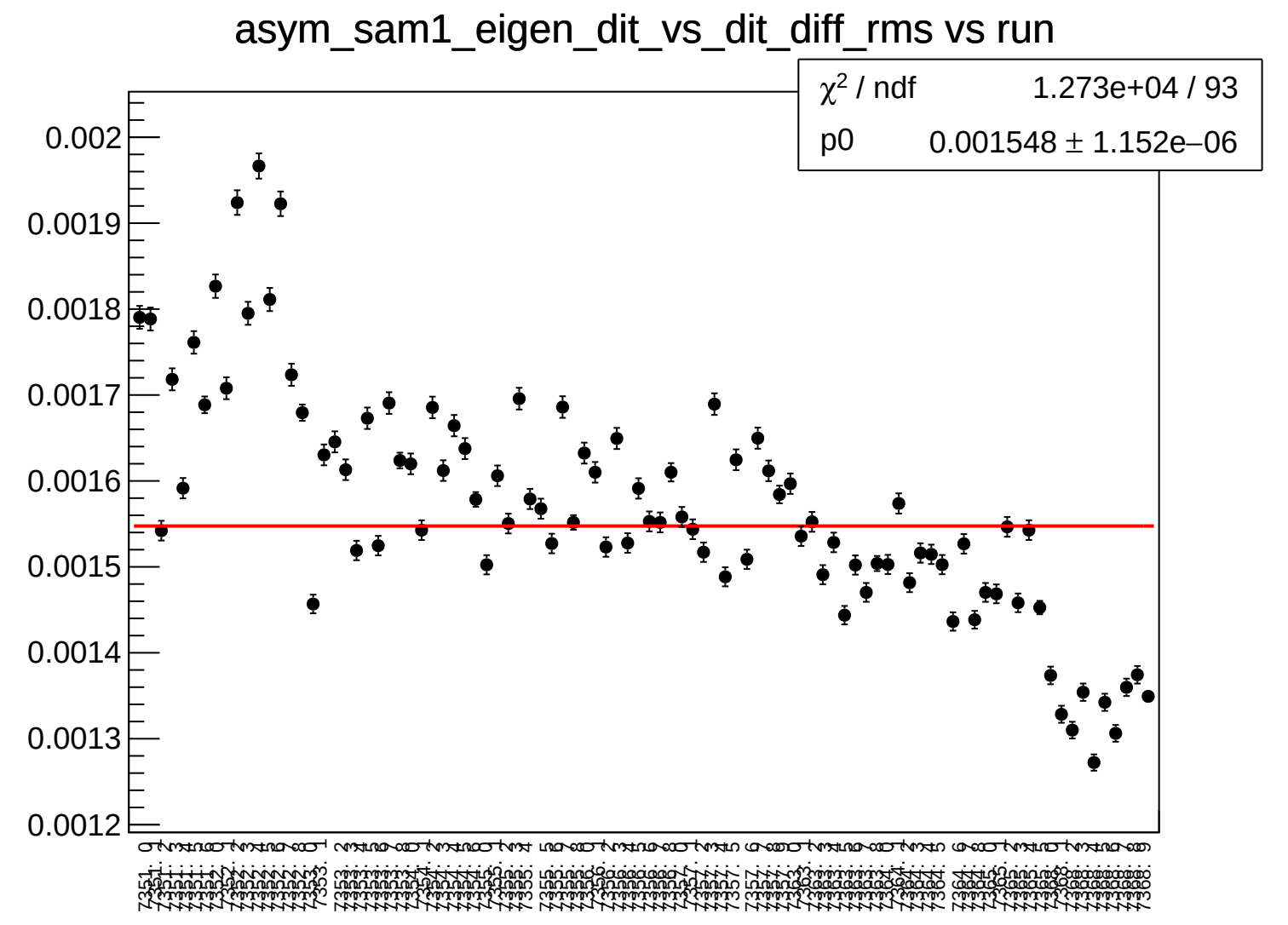

asym_sam1_dit_vs_cor_diff_mean vs run
χ² / ndf 88.06 / 93
p0 −0.006831 ± 0.02757
pull
Entries 94
Mean −314.2
Std Dev 0
pull1D
Entries 94
Mean 0.007894
Std Dev 0.9678

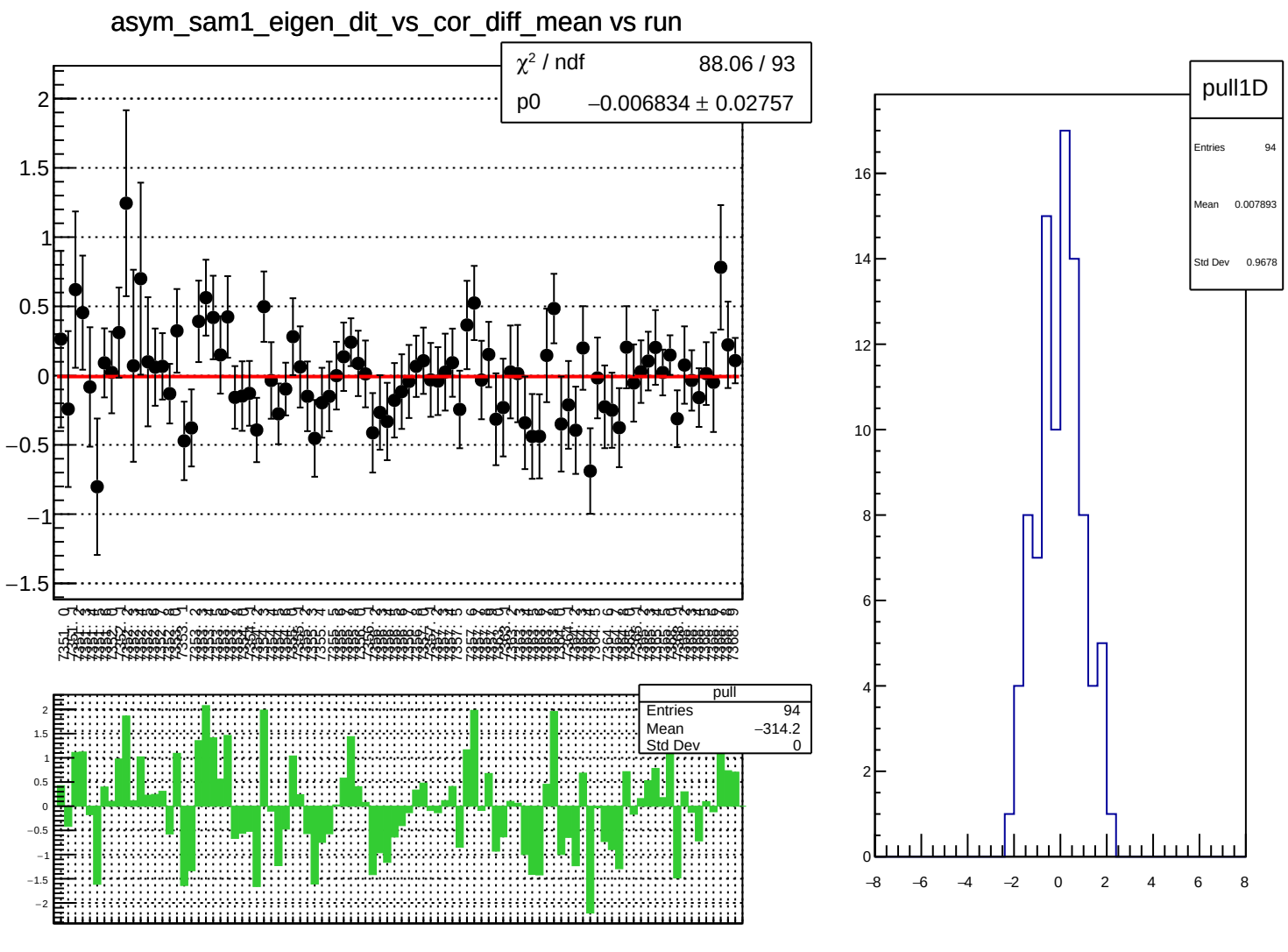

asym_sam1_dit_vs_cor_diff_rms vs run
χ^2 / ndf 9.201e+04 / 93
p0 25.62 ± 0.01949
70
60
50
40
30
20
10

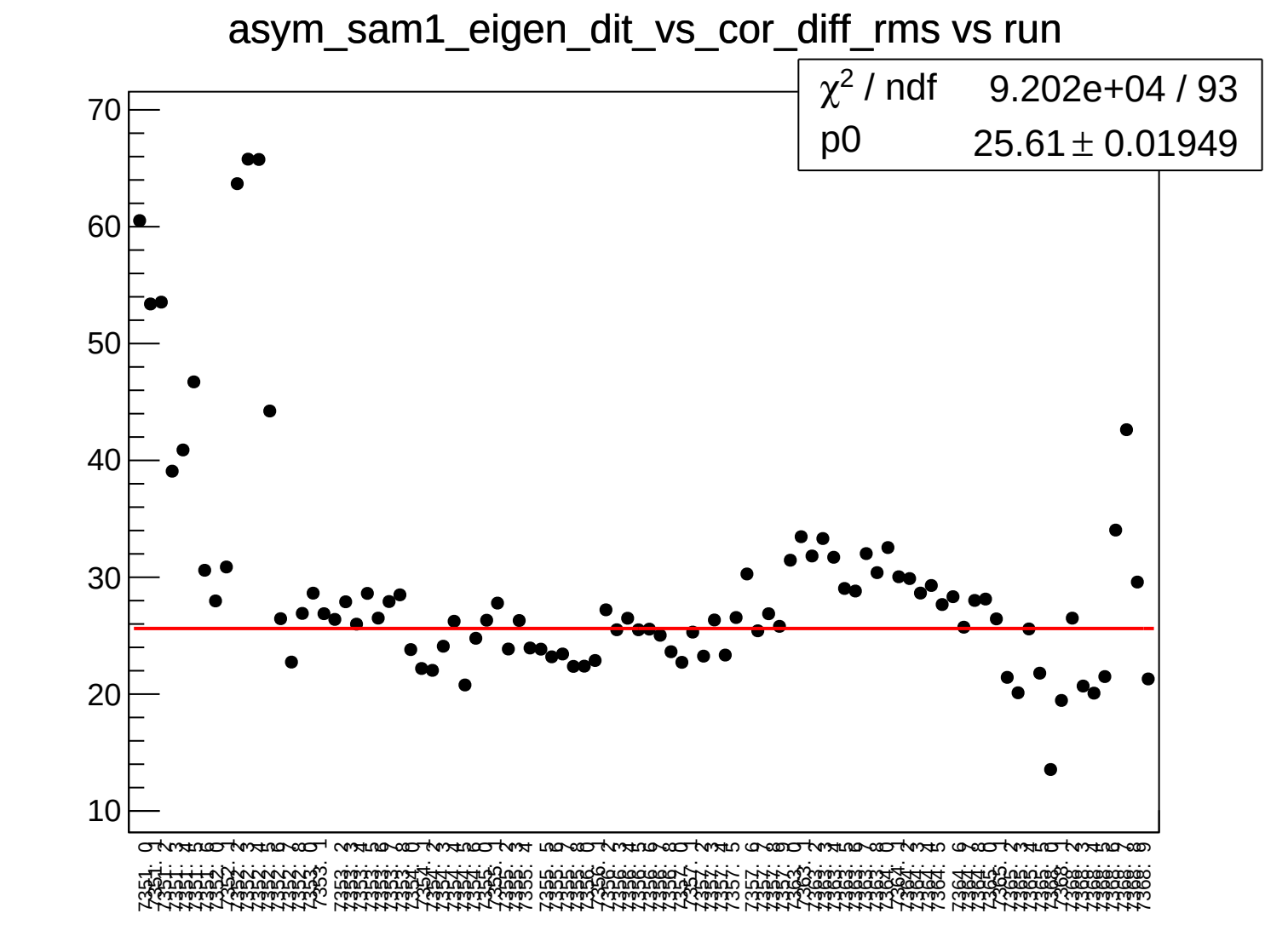

asym_sam1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.06 / 93
p0 −0.006831 ± 0.02757
pull
Entries 94
Mean −314.2
Std Dev 0
pull1D
Entries 94
Mean 0.007894
Std Dev 0.9678

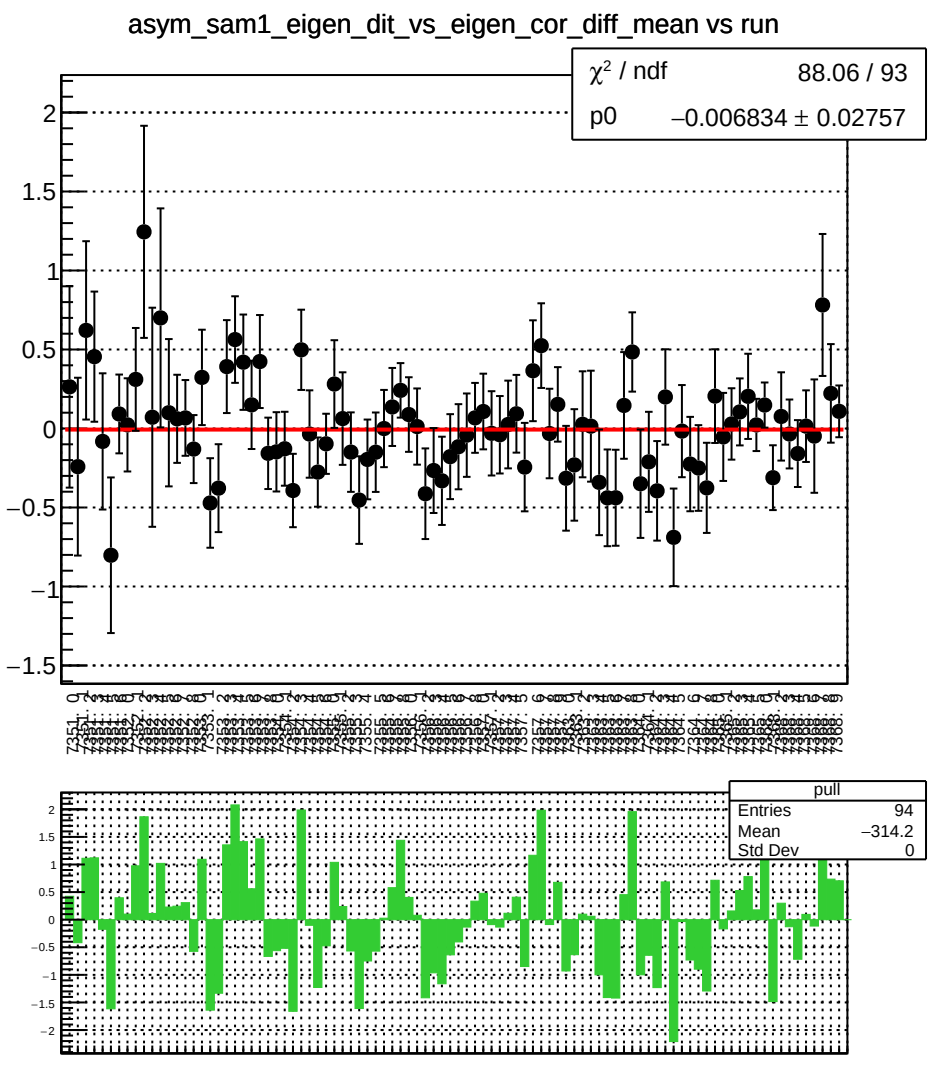

asym_sam1_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 9.201e+04 / 93
p0 25.62 ± 0.01949
70
60
50
40
30
20
10

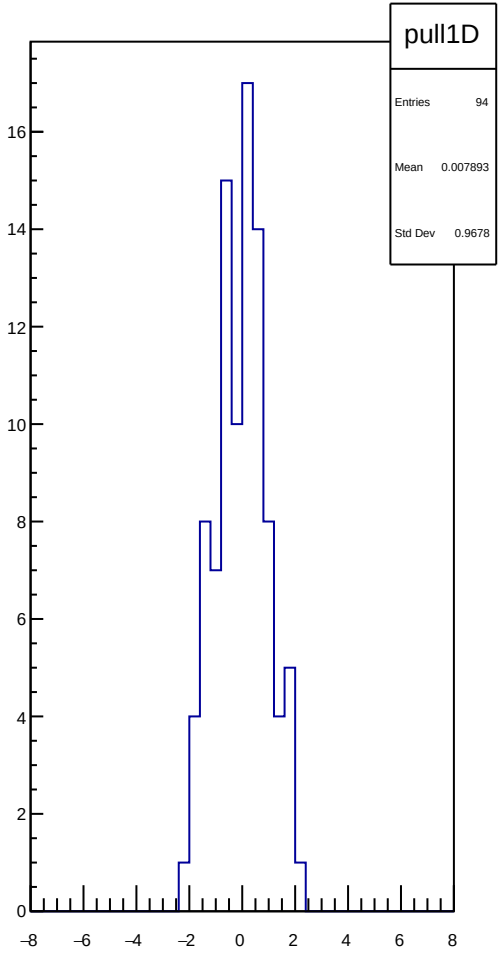

asym_sam1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.32 / 93
p0 −2.644e−06 ± 1.629e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 94
Mean −146.2
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.01651
Std Dev 1.017
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

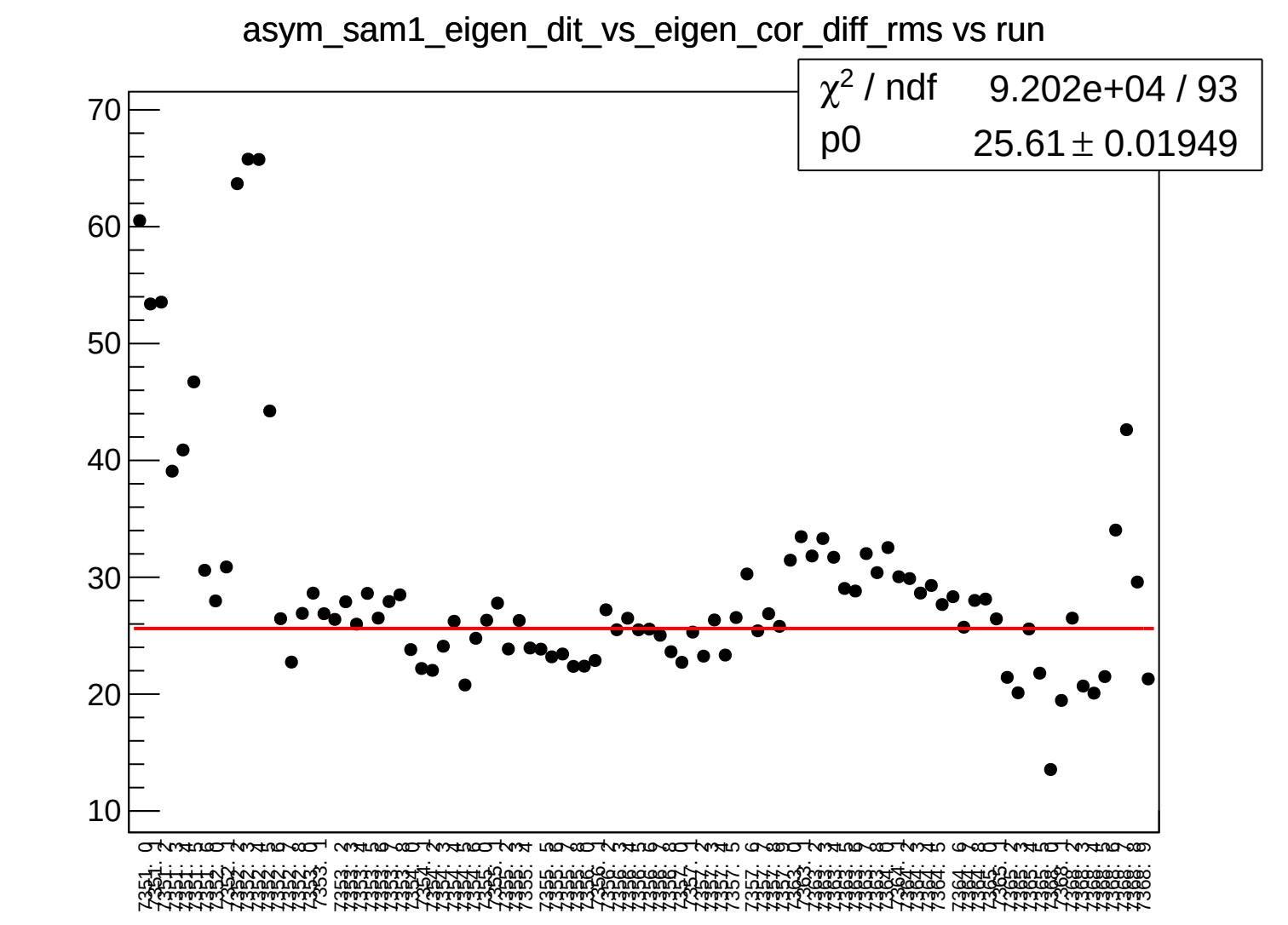

asym_sam1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.273e+04 / 93
p0 0.001548 ± 1.152e−06
0.002
0.0019
0.0018
0.0017
0.0016
0.0015
0.0014
0.0013
0.0012

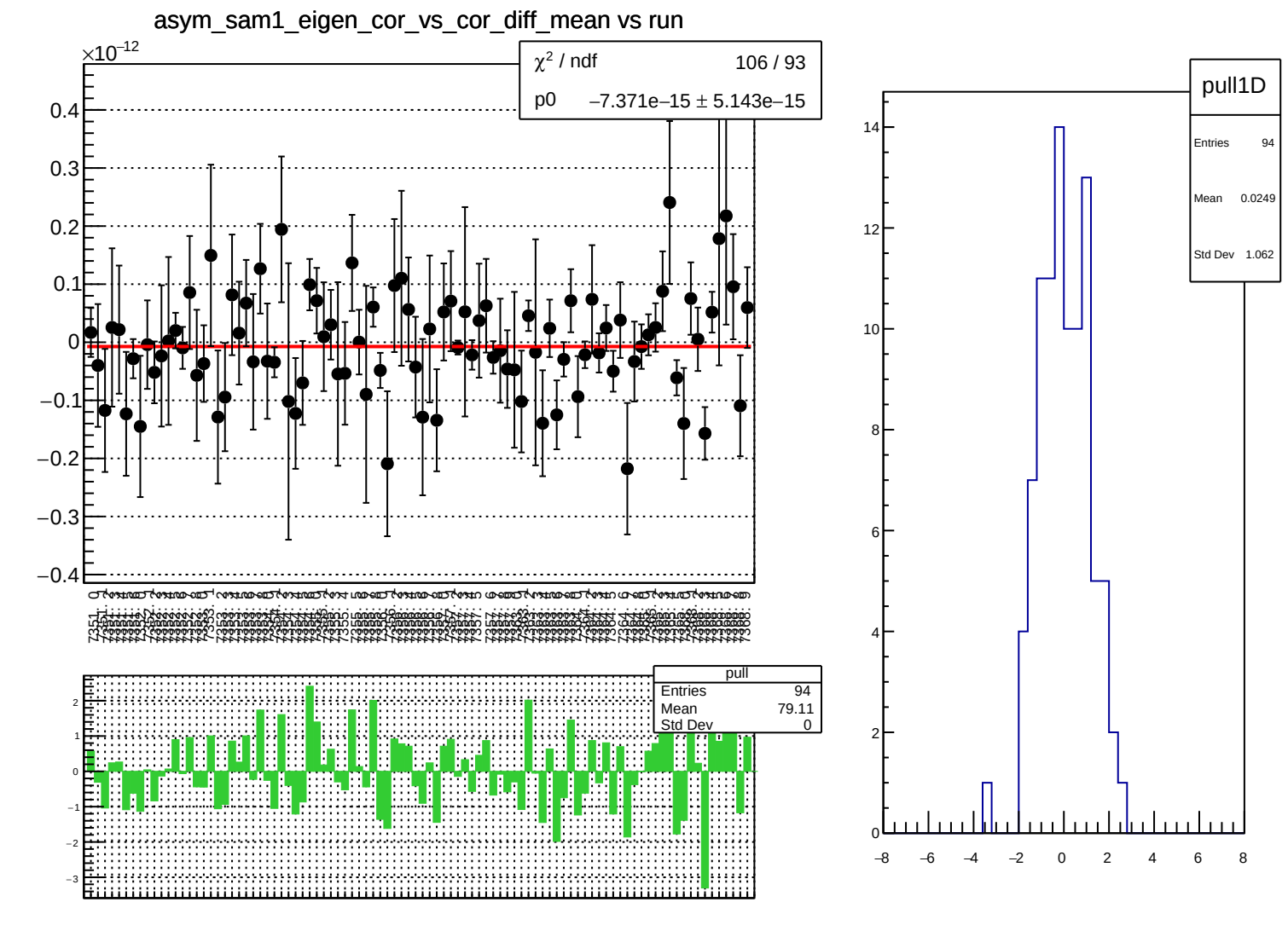

asym_sam1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.06 / 93
p0 −0.006834 ± 0.02757
pull
Entries 94
Mean −314.2
Std Dev 0
pull1D
Entries 94
Mean 0.007893
Std Dev 0.9678

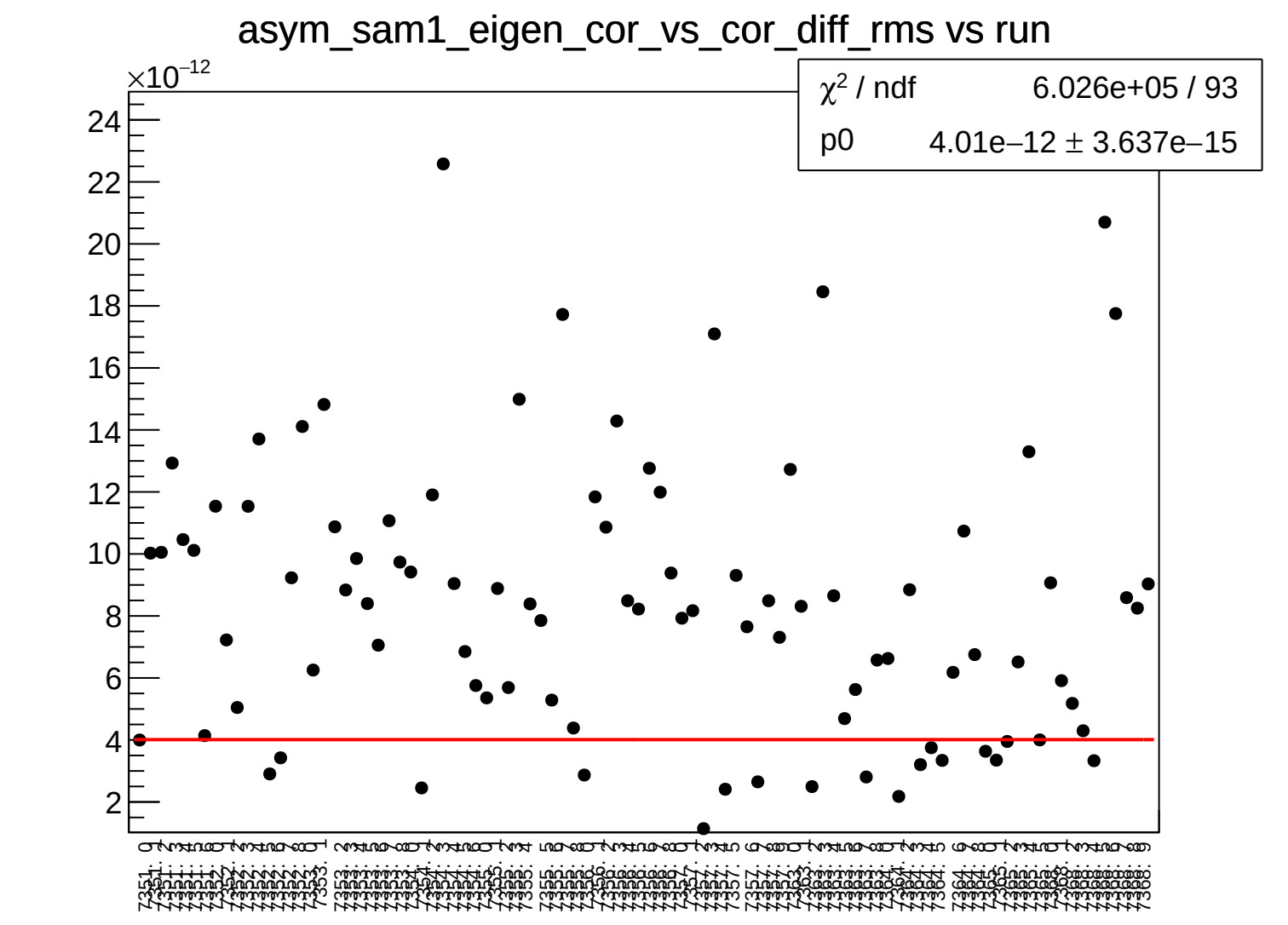

asym_sam1_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 9.202e+04 / 93
p0 25.61 ± 0.01949
70
60
50
40
30
20
10

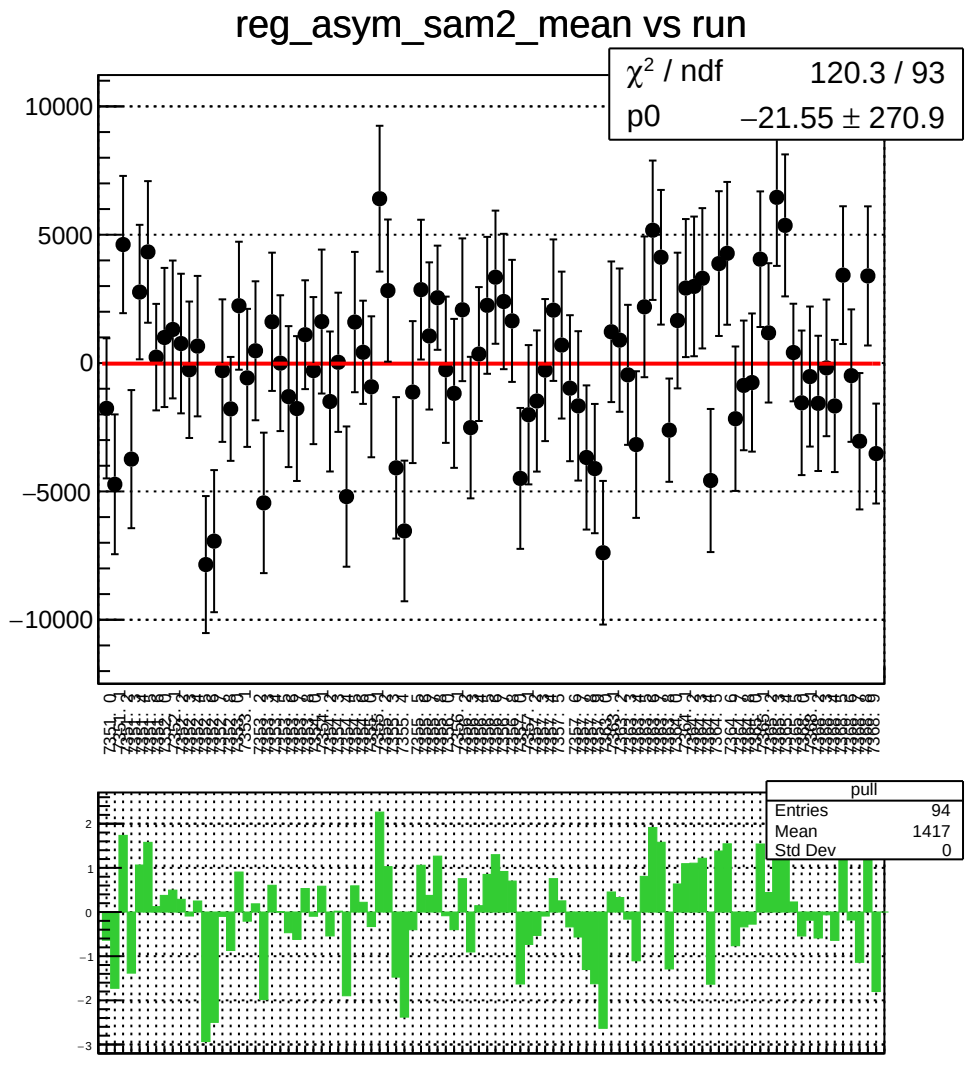

asym_sam1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.06 / 93
p0 −0.006834 ± 0.02757
pull
Entries 94
Mean −314.2
Std Dev 0

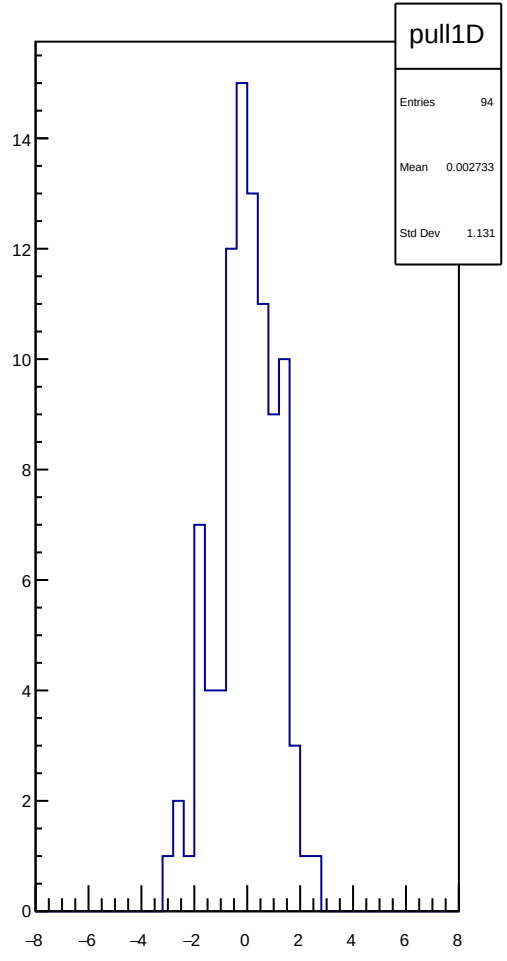

pull1D
Entries 94
Mean 0.007893
Std Dev 0.9678

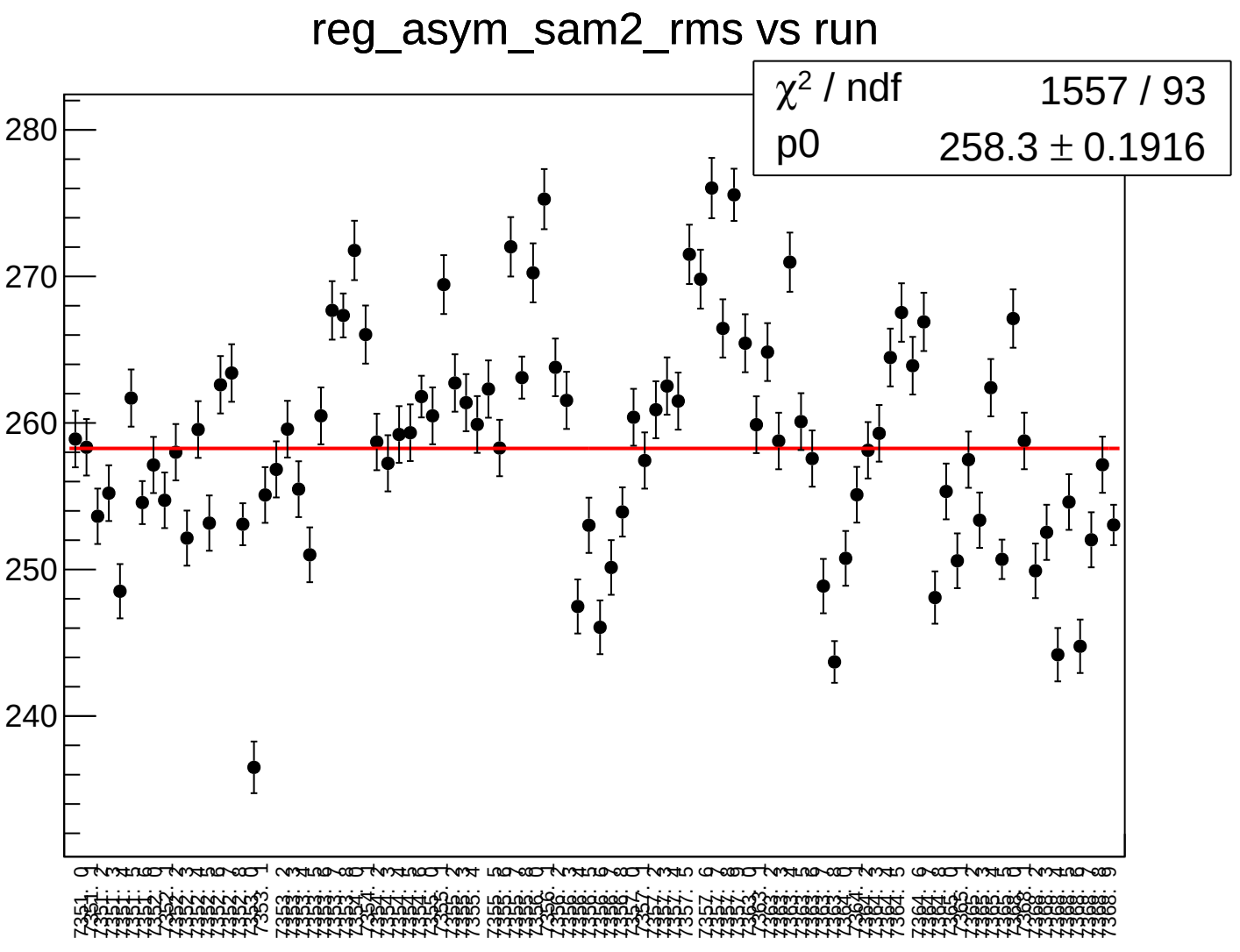

asym_sam1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 9.202e+04 / 93
p0 25.61 ± 0.01949
70
60
50
40
30
20
10

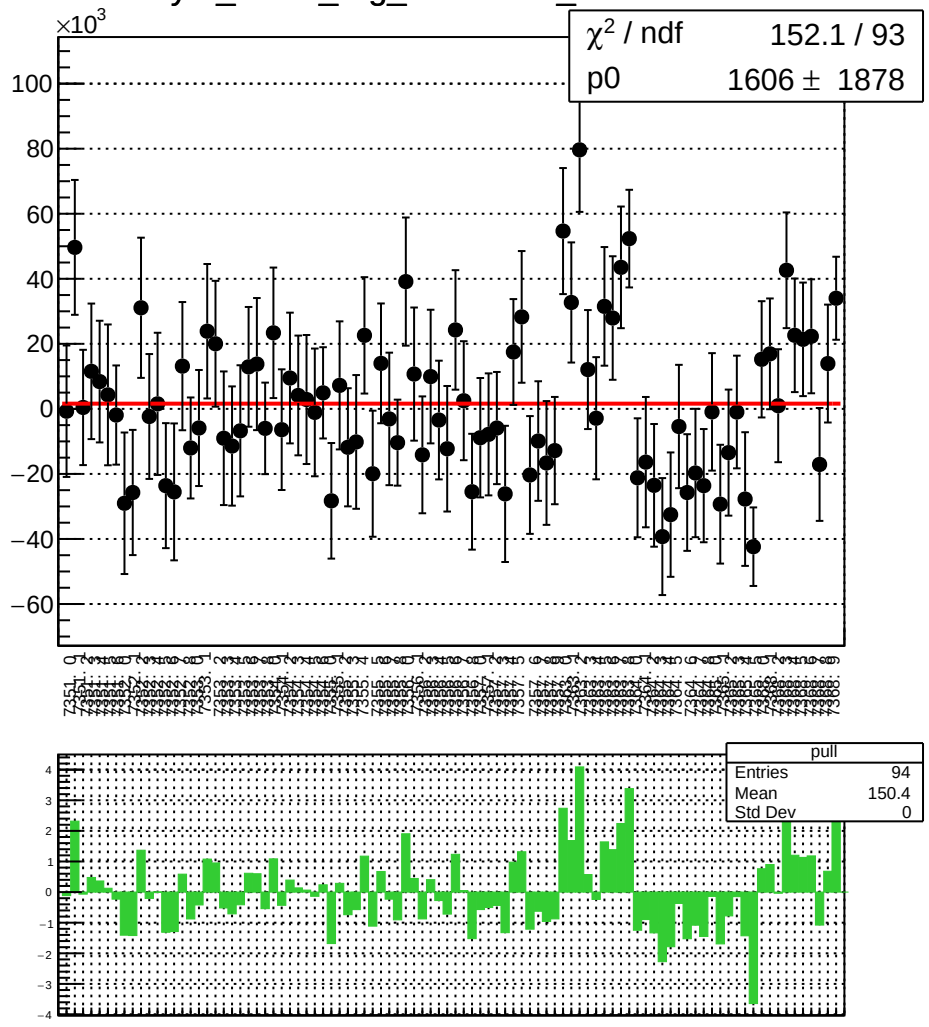

asym_sam1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 106 / 93
p0 −7.371e−15 ± 5.143e−15
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull
Entries 94
Mean 79.11
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.0249
Std Dev 1.062
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

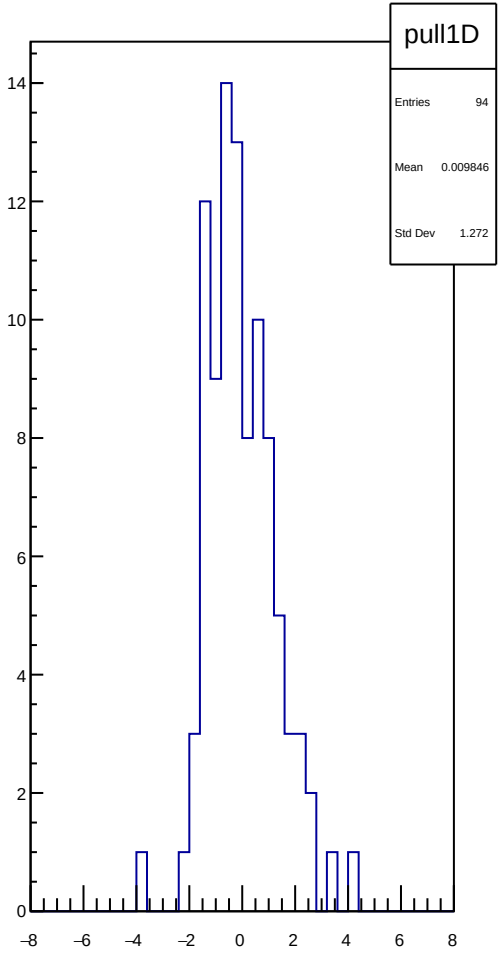

asym_sam1_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.026e+05 / 93
p0 4.01e−12 ± 3.637e−15
24
22
20
18
16
14
12
10
8
6
4
2

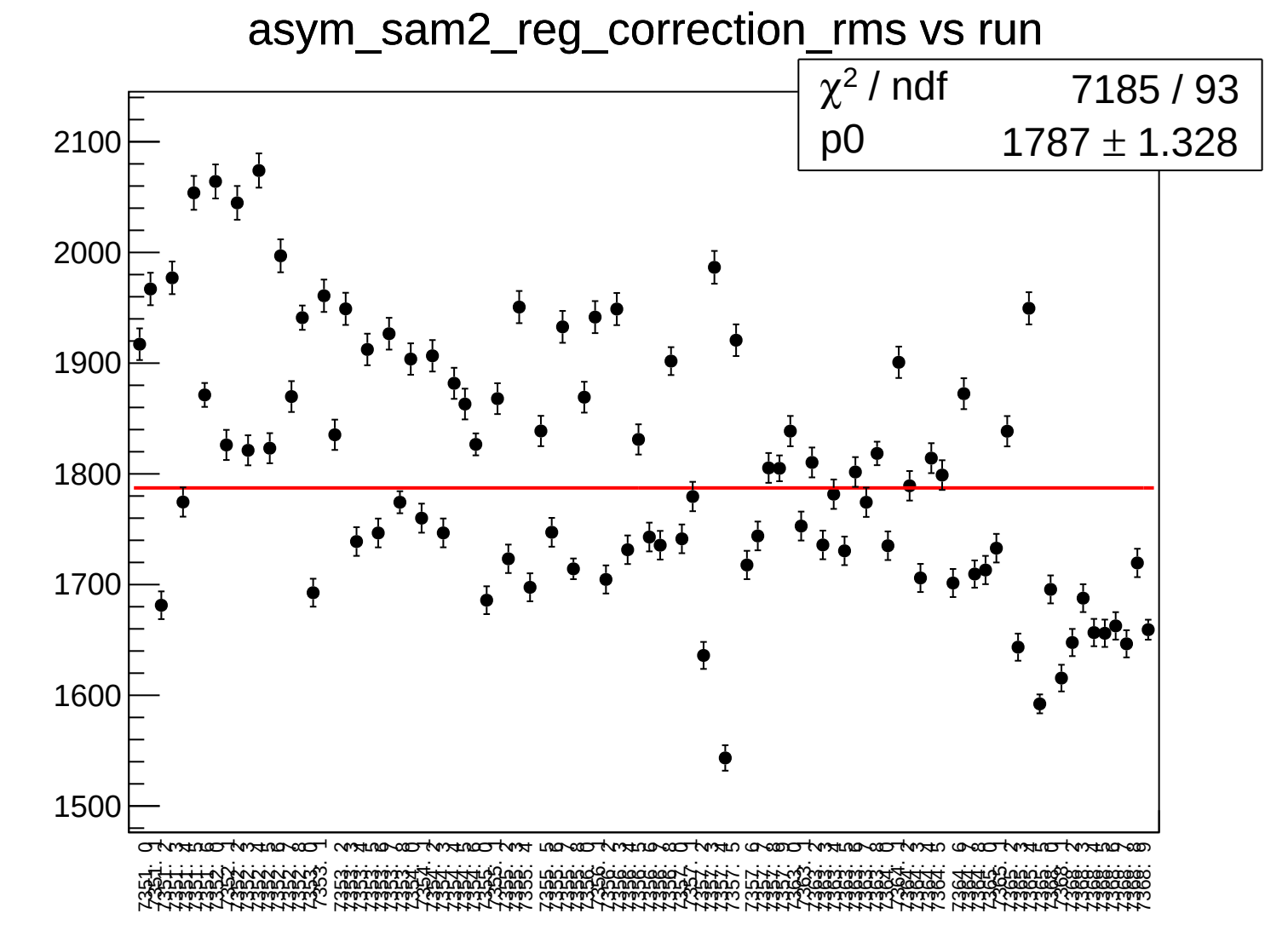

reg_asym_sam2_mean vs run
χ² / ndf 120.3 / 93
p0 −21.55 ± 270.9
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 1417
Std Dev 0
2
1
0
−1
−2
−3

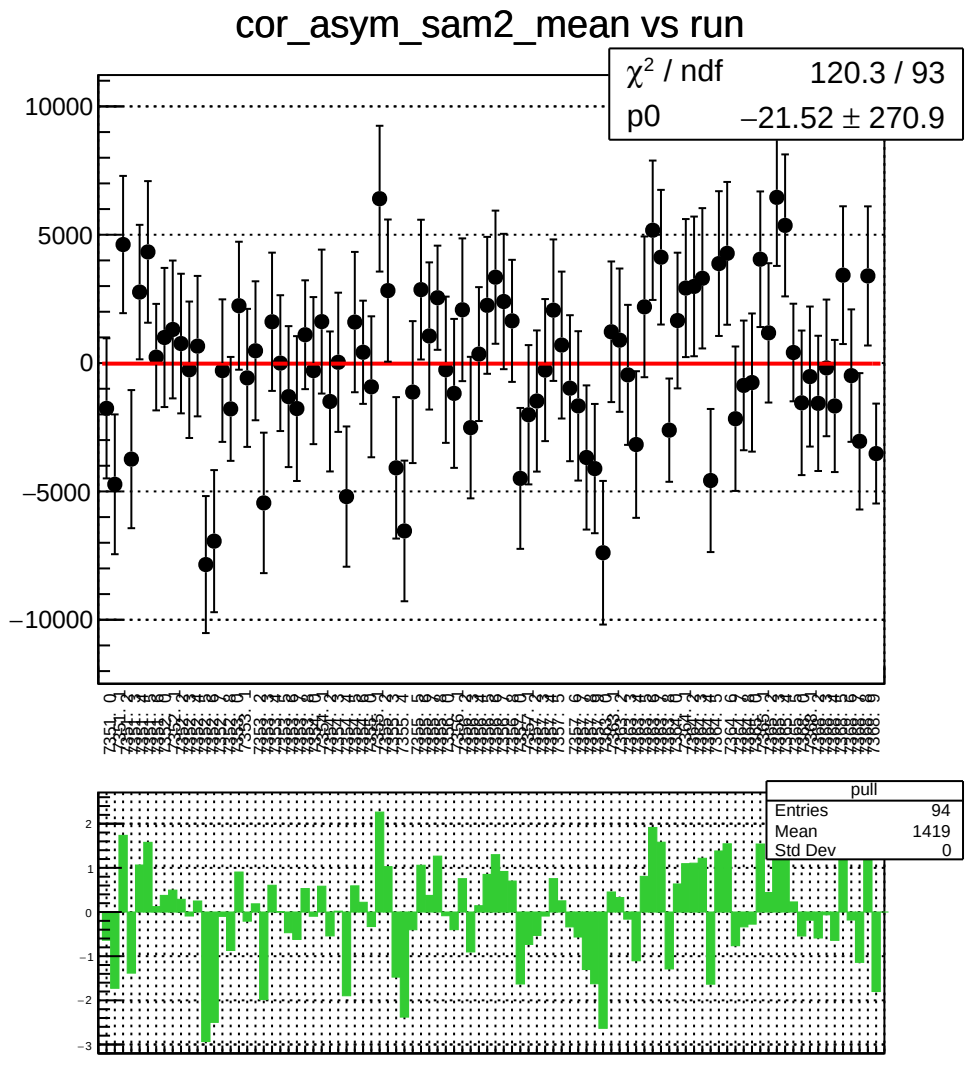

pull1D
Entries 94
Mean 0.002733
Std Dev 1.131
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

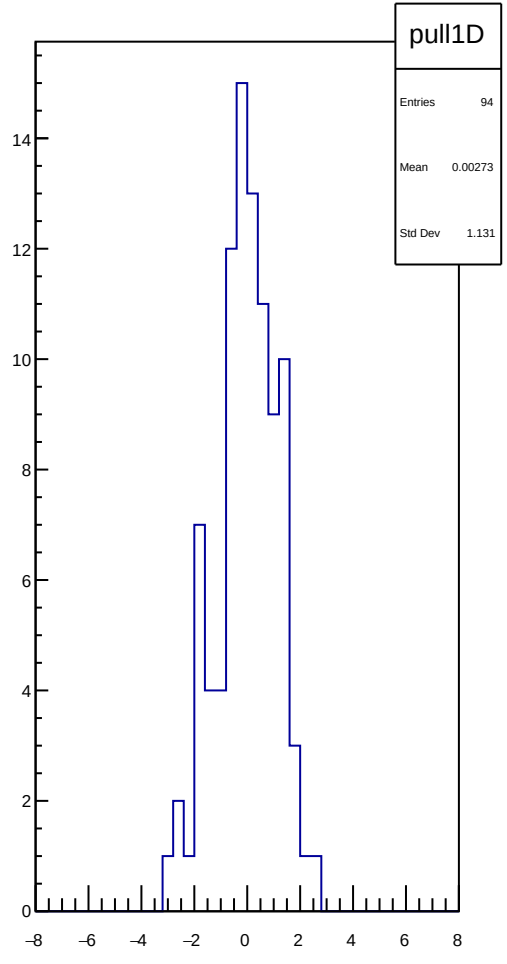

reg_asym_sam2_rms vs run
χ² / ndf 1557 / 93
p0 258.3 ± 0.1916
280
270
260
250
240

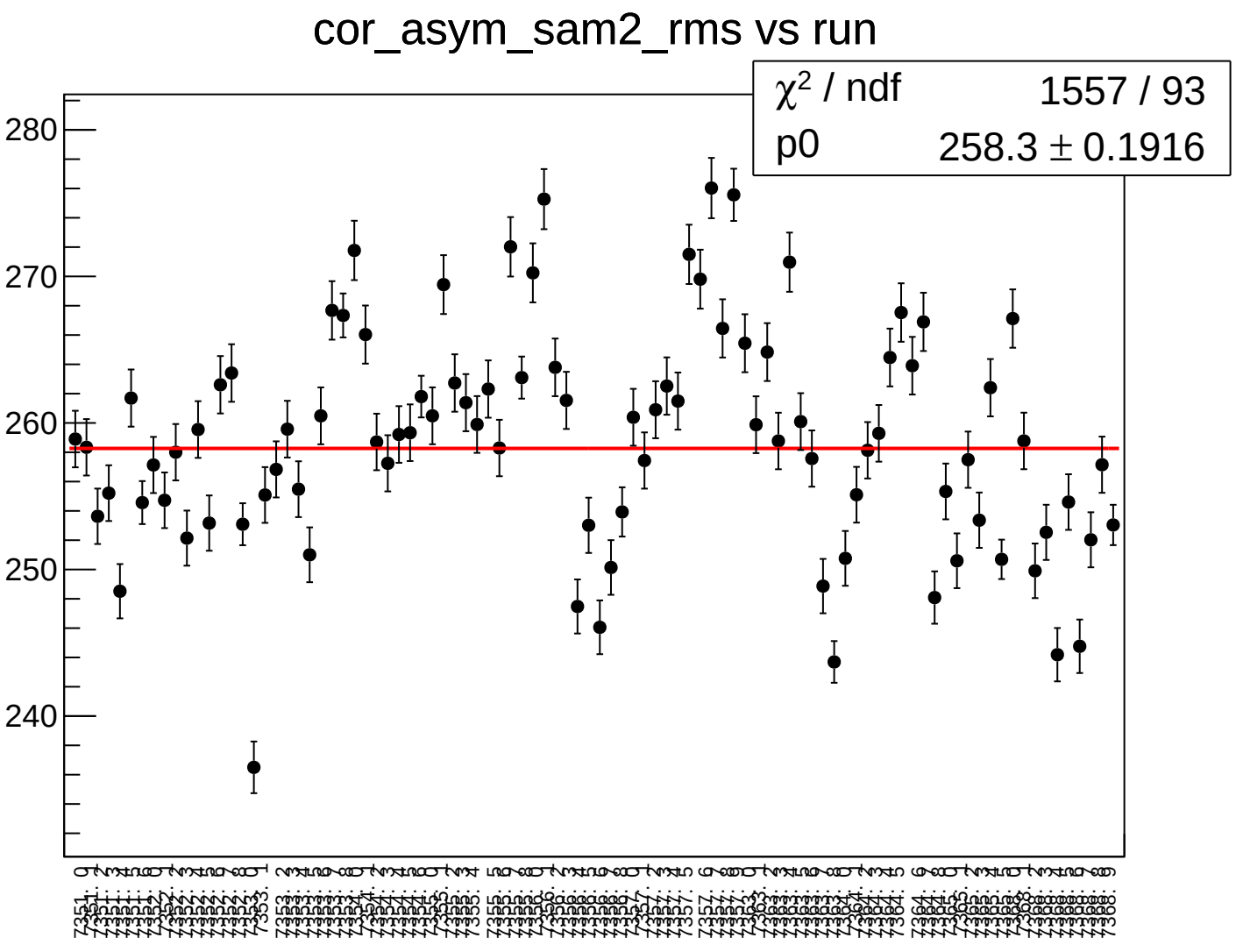

asym_sam2_reg_correction_mean vs run
×10^3
χ² / ndf 152.1 / 93
p0 1606 ± 1878
pull
Entries 94
Mean 150.4
Std Dev 0

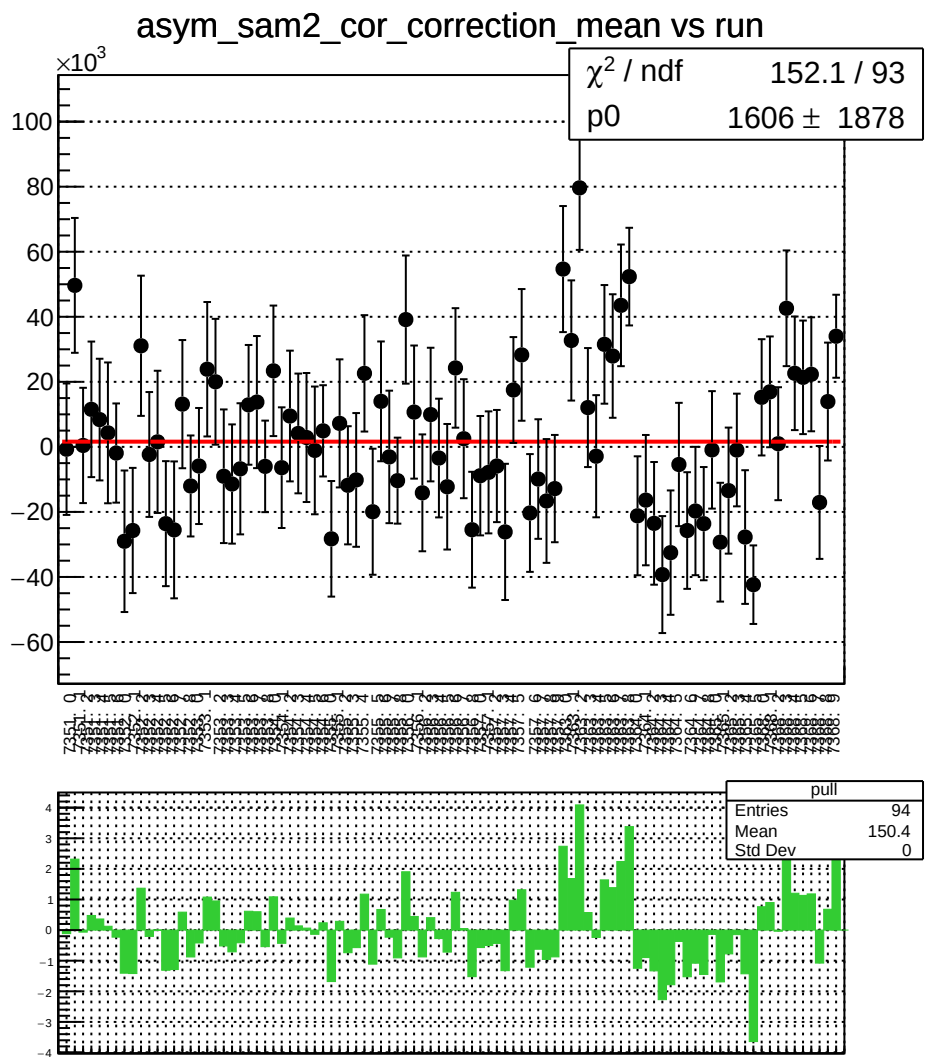

pull1D
Entries 94
Mean 0.009846
Std Dev 1.272

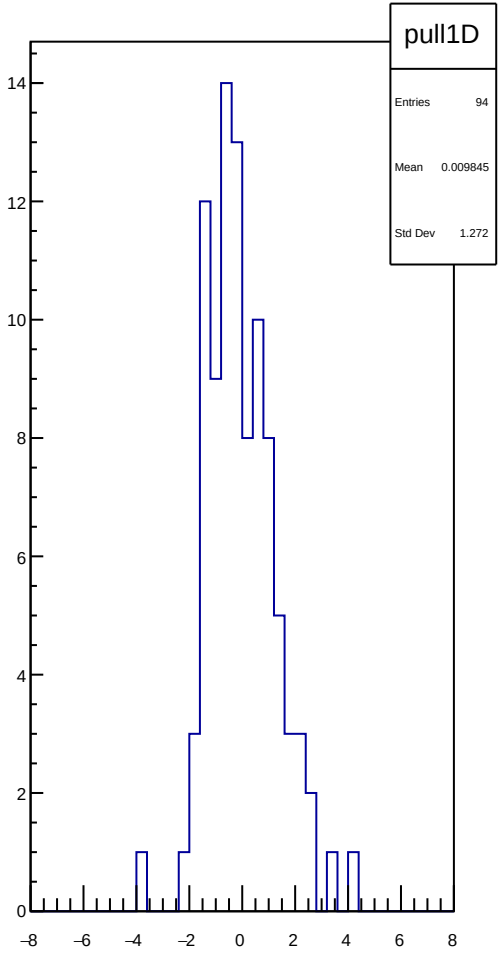

asym_sam2_reg_correction_rms vs run
χ² / ndf 7185 / 93
p0 1787 ± 1.328
2100
2000
1900
1800
1700
1600
1500

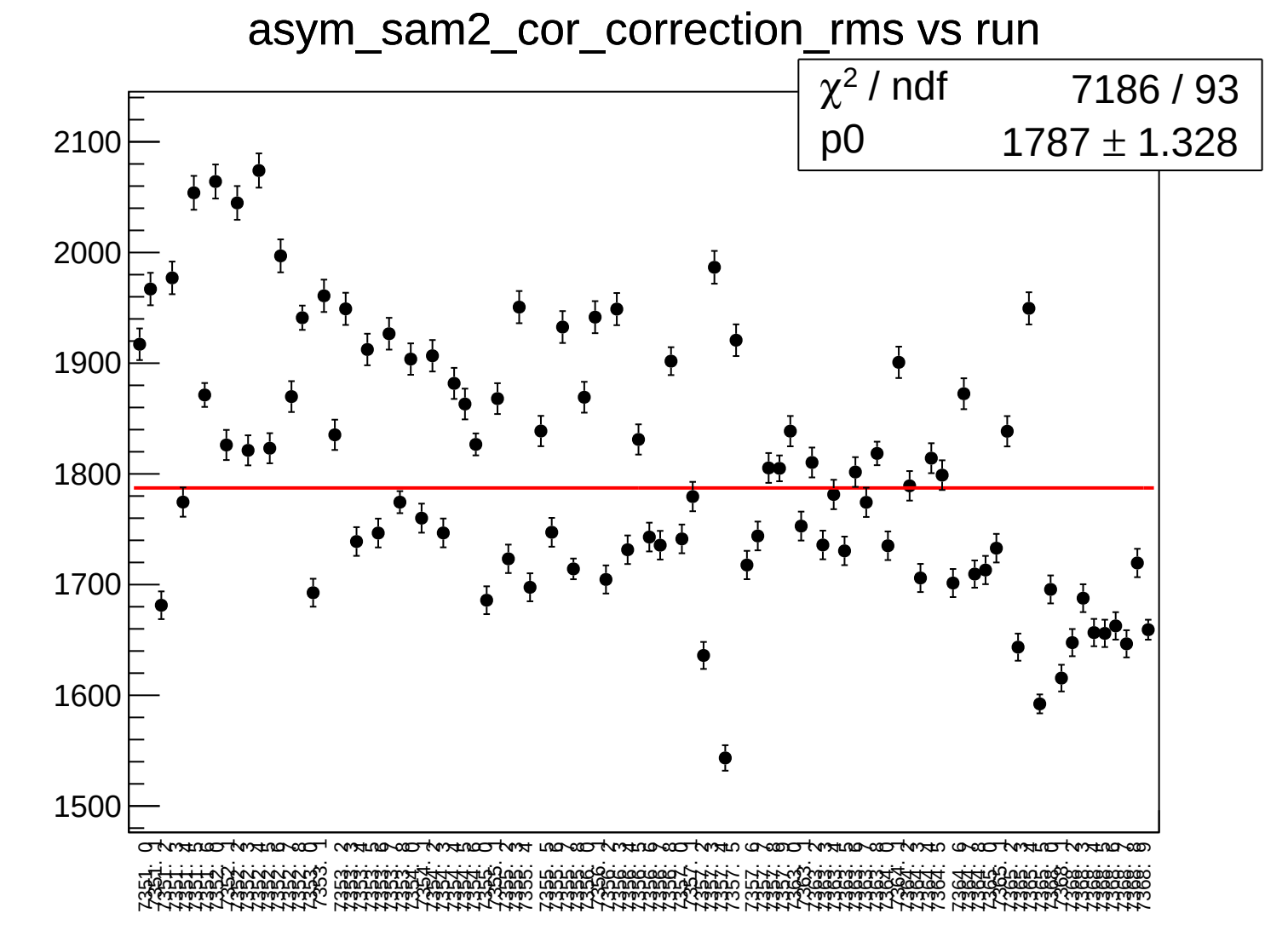

cor_asym_sam2_mean vs run
χ² / ndf 120.3 / 93
p0 −21.52 ± 270.9
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 1419
Std Dev 0
2
1
0
−1
−2
−3

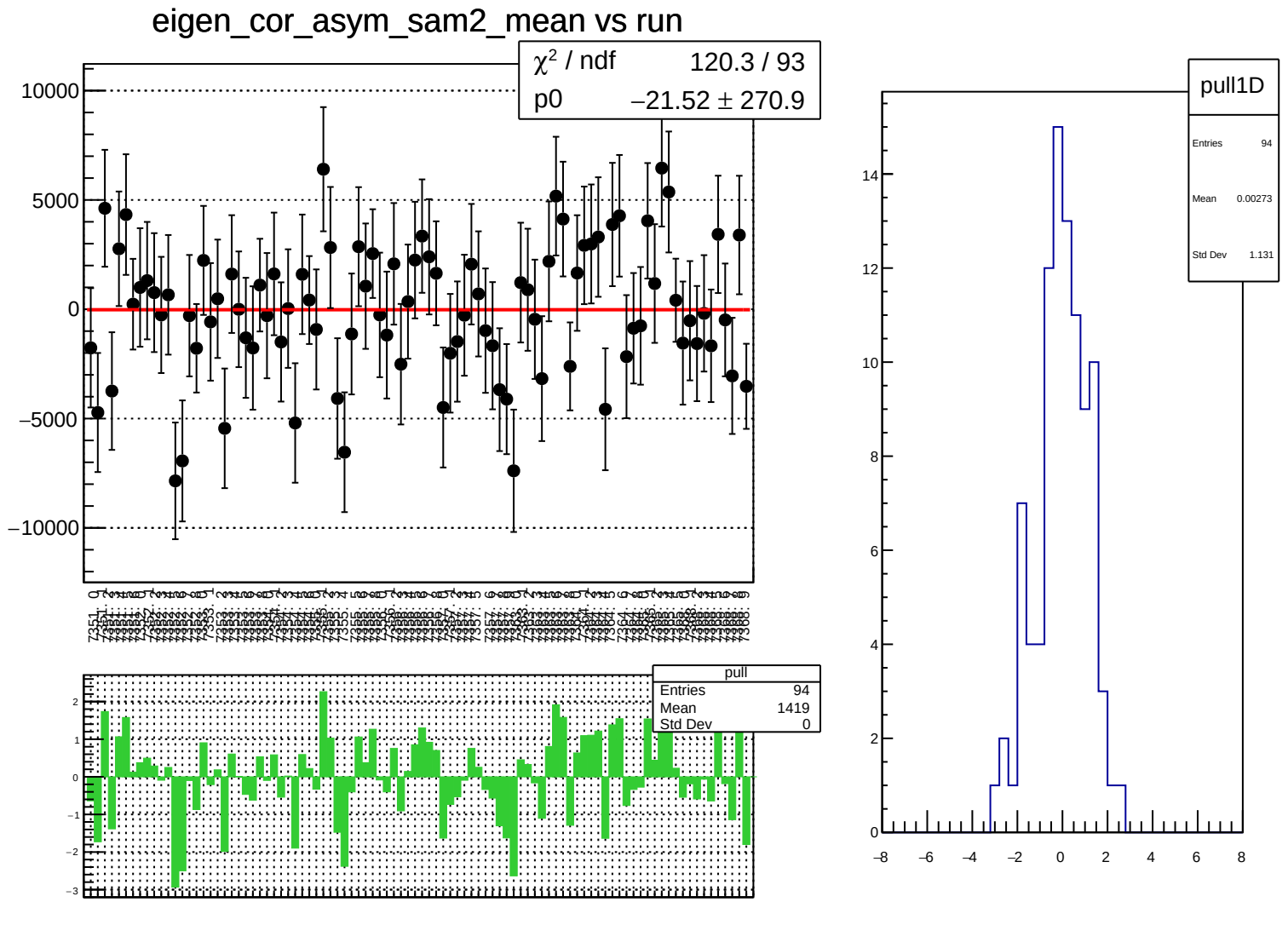

pull1D
Entries 94
Mean 0.00273
Std Dev 1.131
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

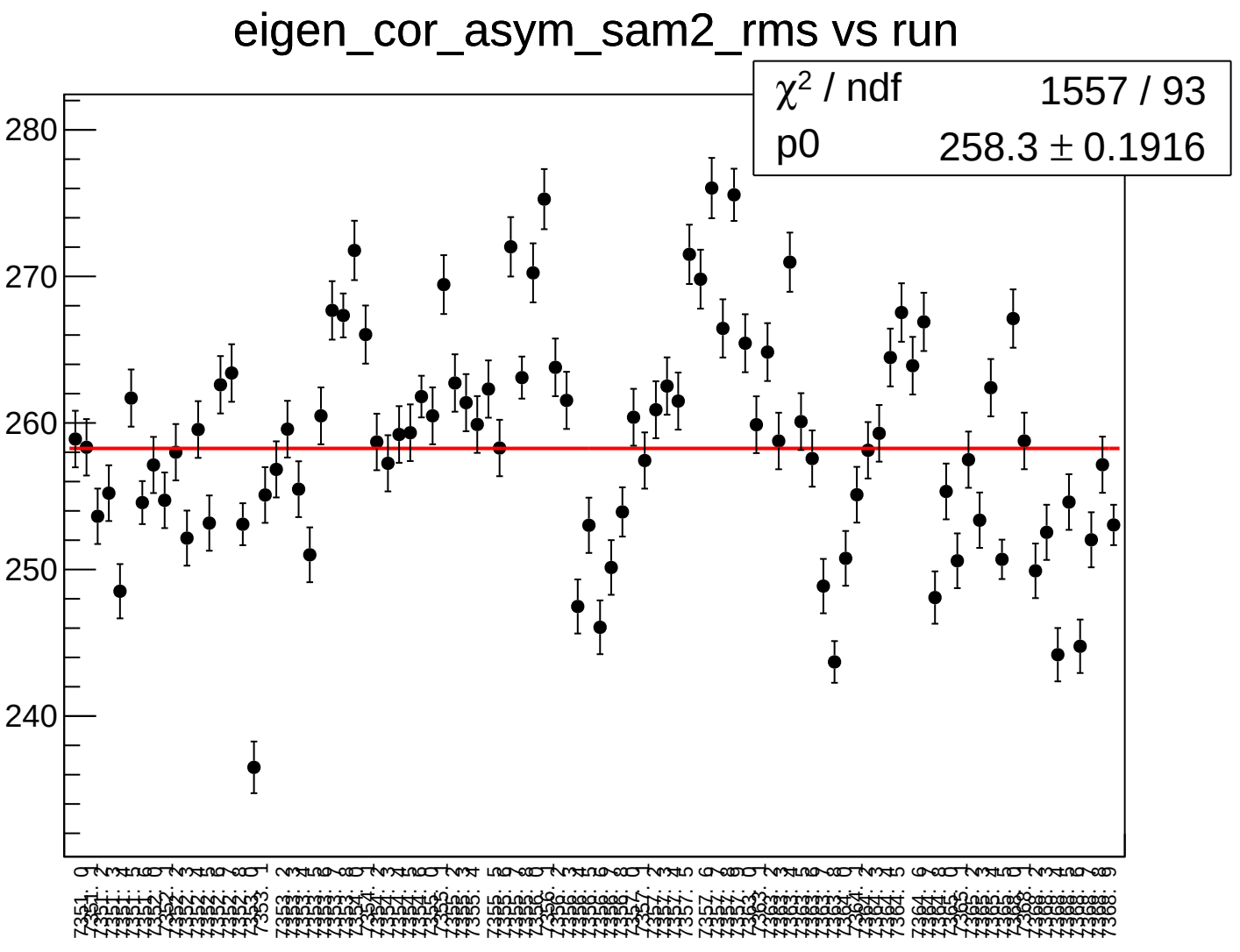

cor_asym_sam2_rms vs run
χ² / ndf 1557 / 93
p0 258.3 ± 0.1916
280
270
260
250
240

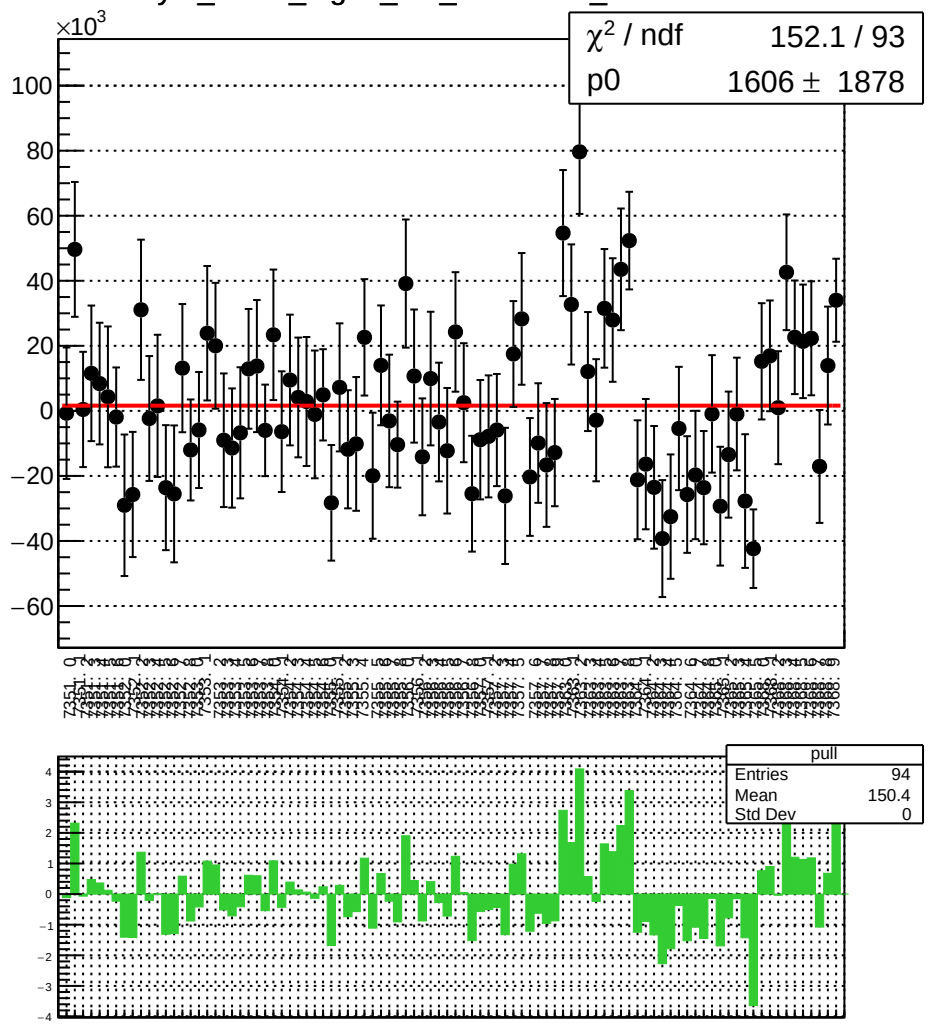

asym_sam2_cor_correction_mean vs run
×10^3
χ² / ndf 152.1 / 93
p0 1606 ± 1878
pull
Entries 94
Mean 150.4
Std Dev 0

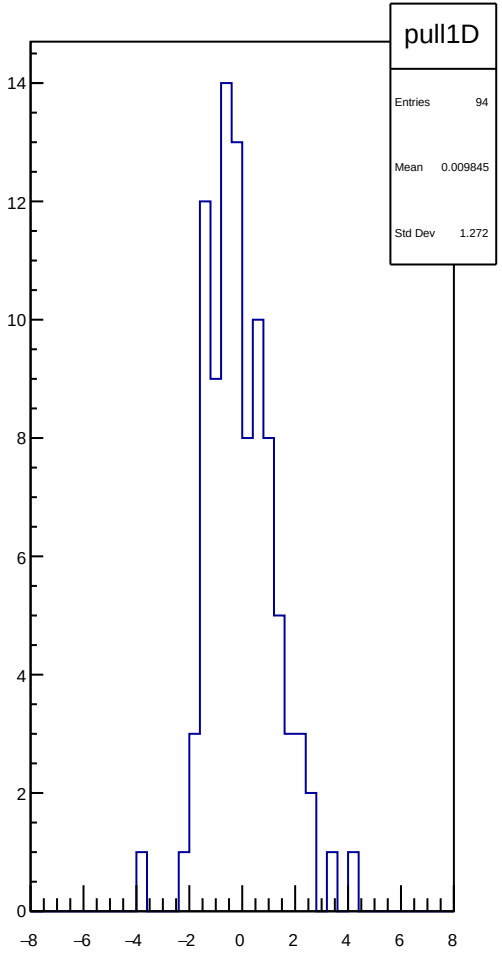

pull1D
Entries 94
Mean 0.009845
Std Dev 1.272

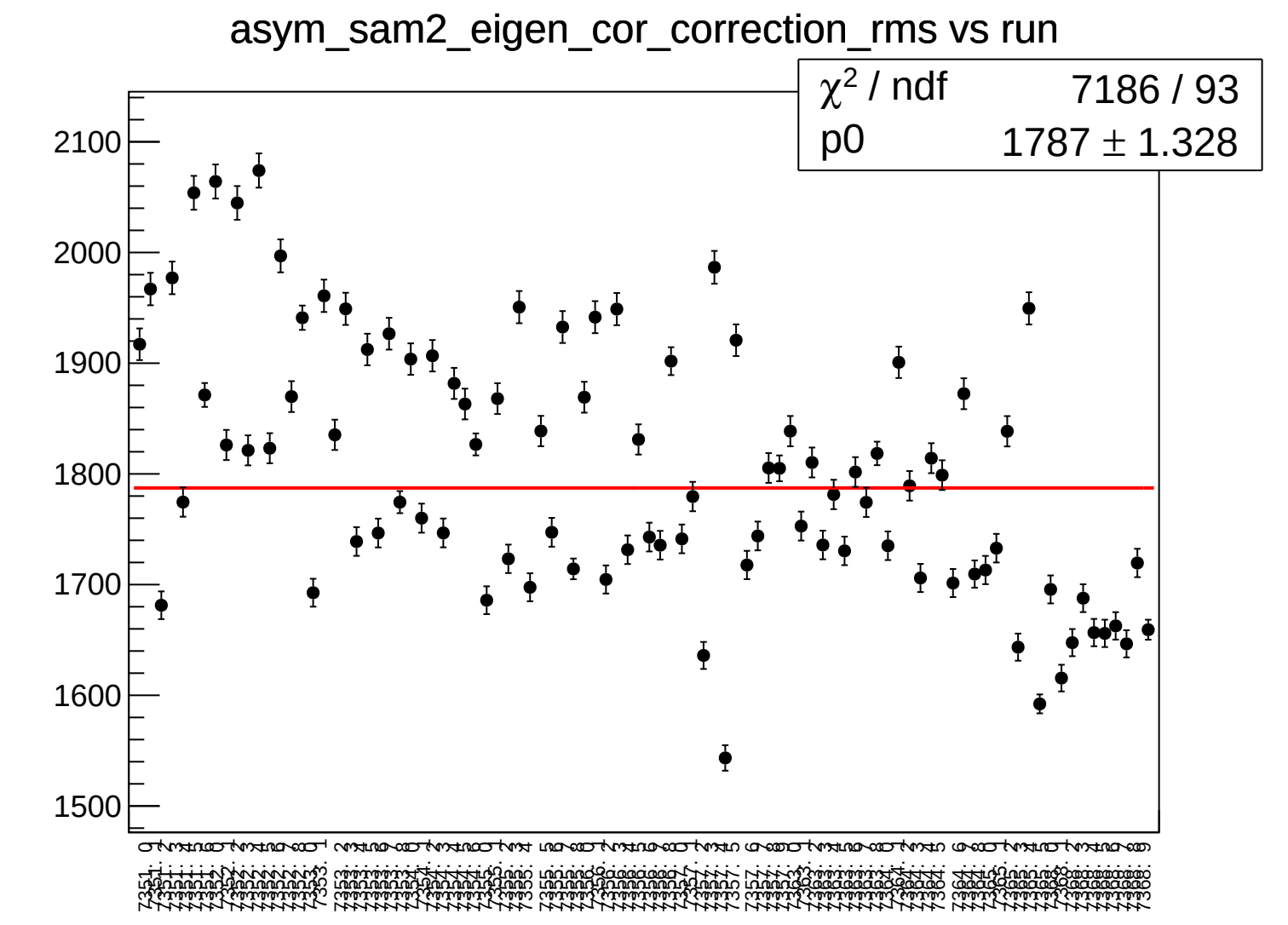

asym_sam2_cor_correction_rms vs run
χ² / ndf 7186 / 93
p0 1787 ± 1.328
2100
2000
1900
1800
1700
1600
1500

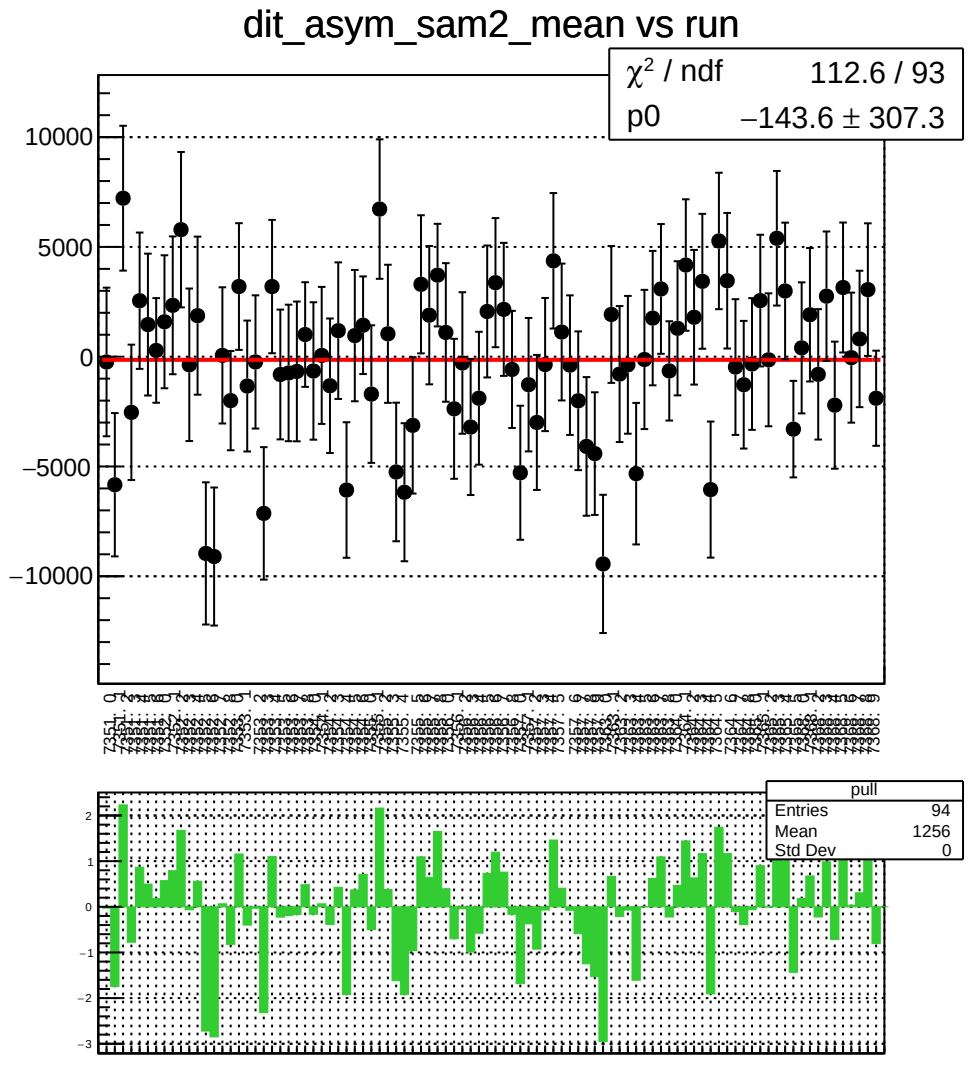

eigen_cor_asym_sam2_mean vs run
χ² / ndf 120.3 / 93
p0 −21.52 ± 270.9
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 1419
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.00273
Std Dev 1.131
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

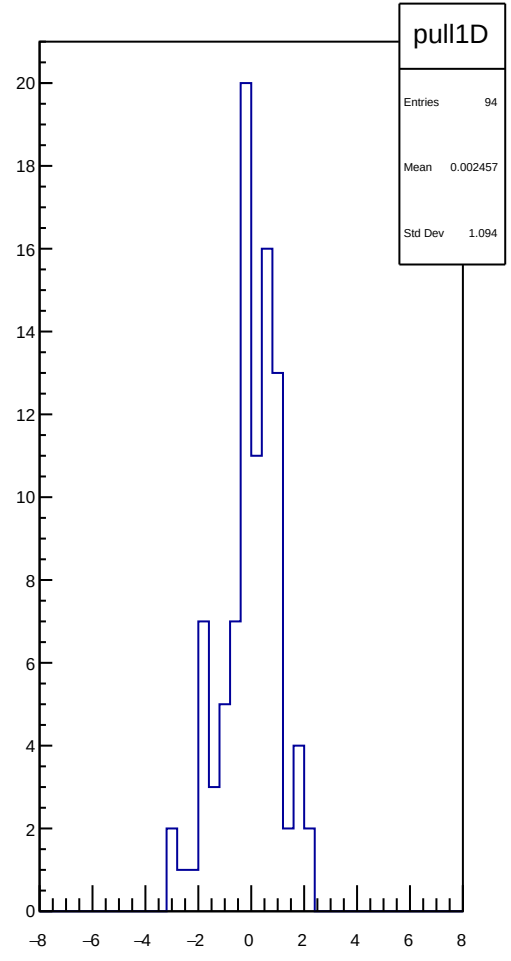

eigen_cor_asym_sam2_rms vs run
χ² / ndf 1557 / 93
p0 258.3 ± 0.1916
280
270
260
250
240

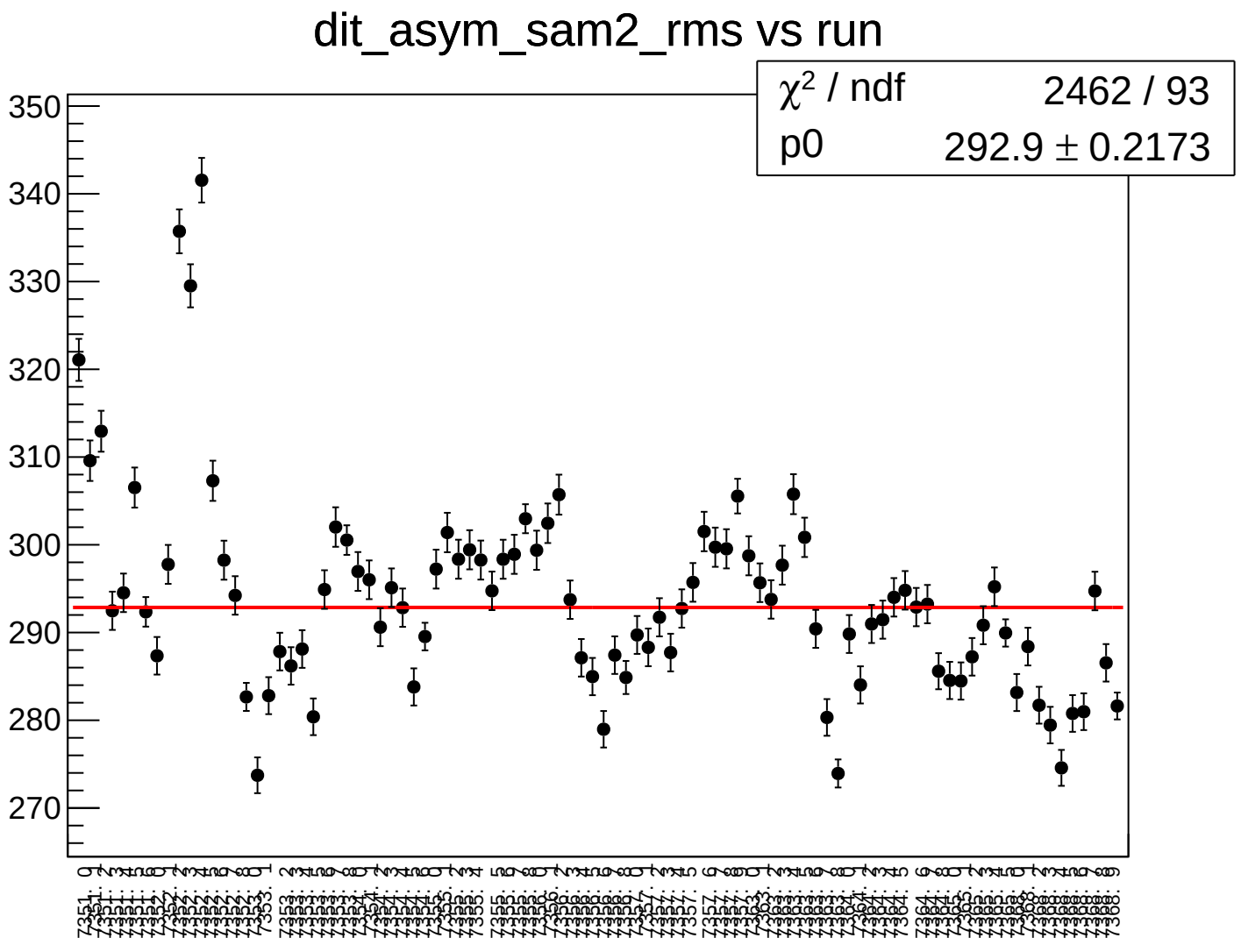

asym_sam2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 152.1 / 93
p0 1606 ± 1878
pull
Entries 94
Mean 150.4
Std Dev 0

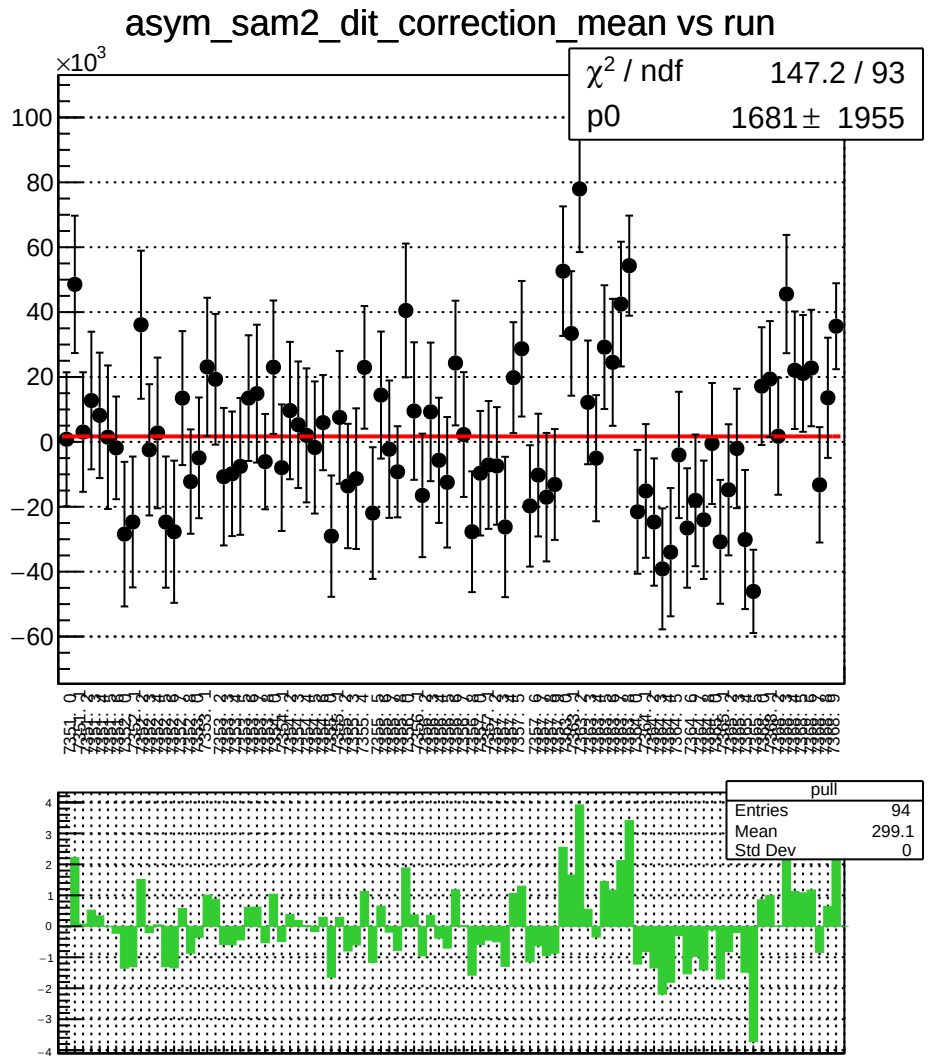

pull1D
Entries 94
Mean 0.009845
Std Dev 1.272

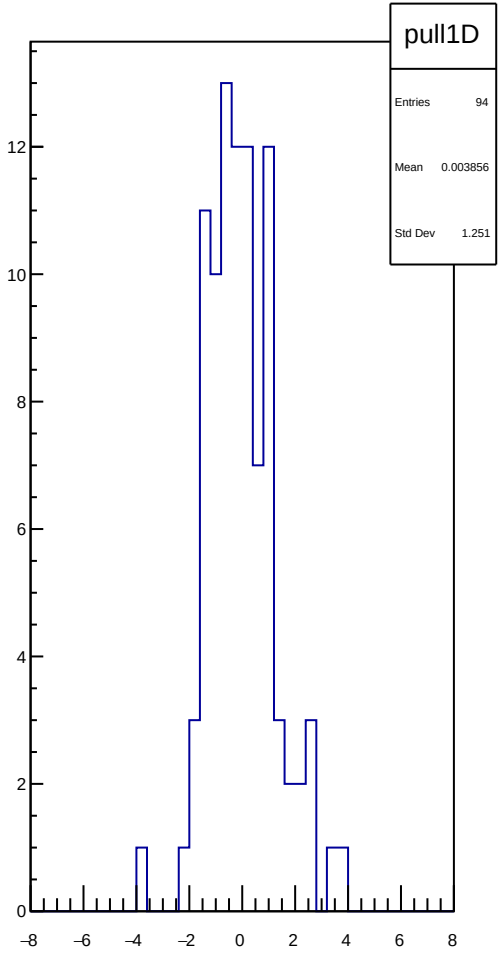

asym_sam2_eigen_cor_correction_rms vs run
χ^2 / ndf 7186 / 93
p0 1787 ± 1.328
2100
2000
1900
1800
1700
1600
1500

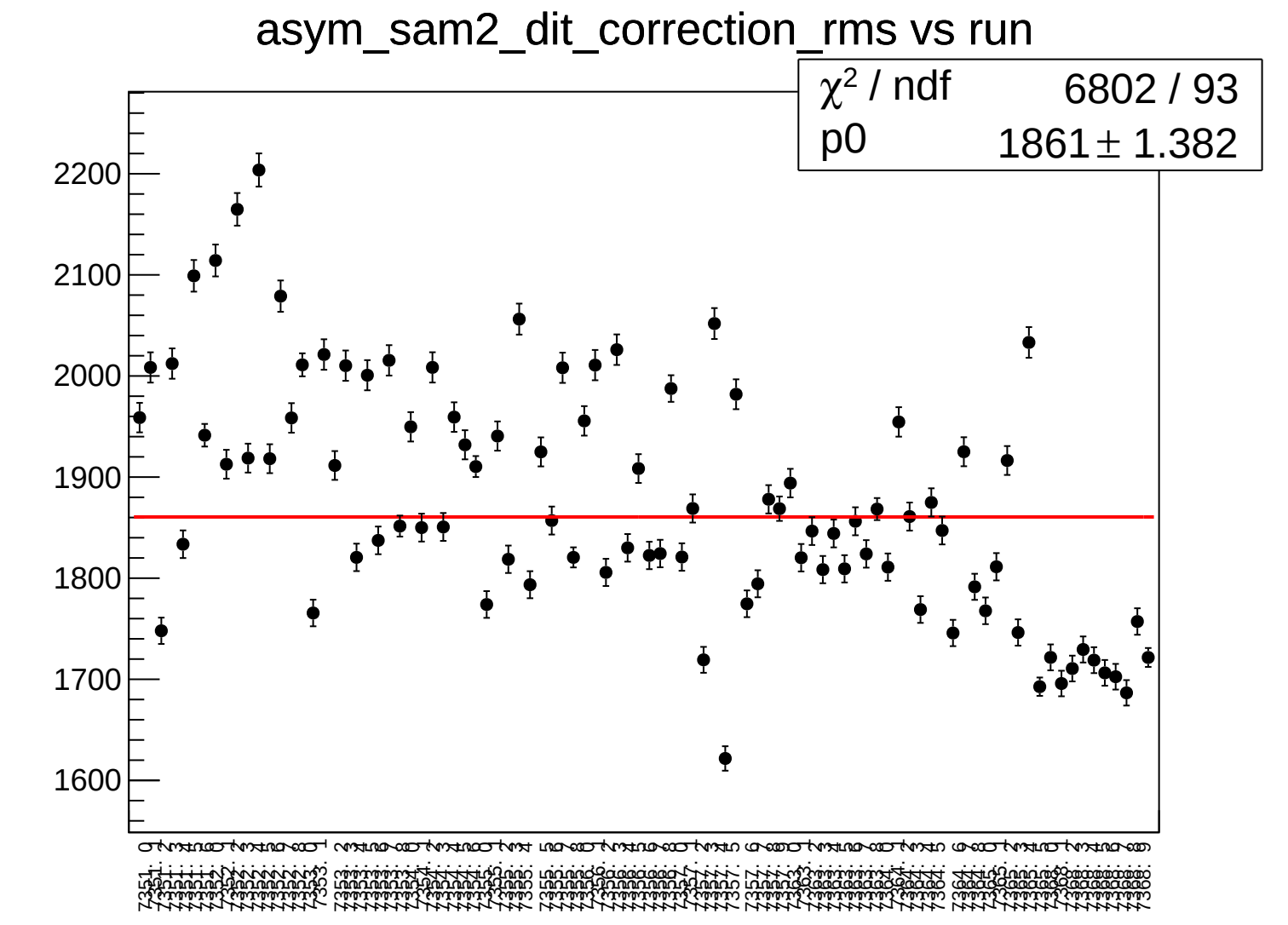

dit_asym_sam2_mean vs run
χ² / ndf 112.6 / 93
p0 −143.6 ± 307.3
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 1256
Std Dev 0
2
1
0
−1
−2
−3

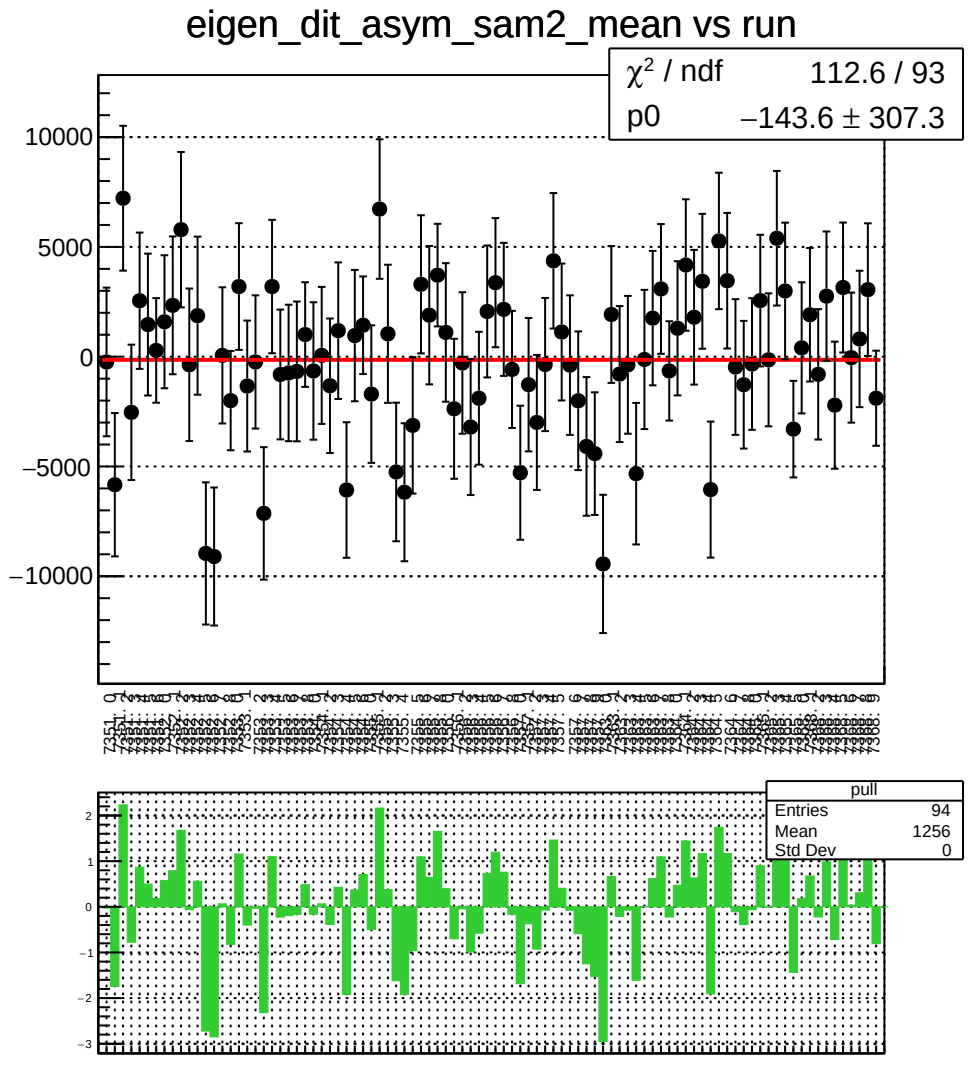

pull1D
Entries 94
Mean 0.002457
Std Dev 1.094
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

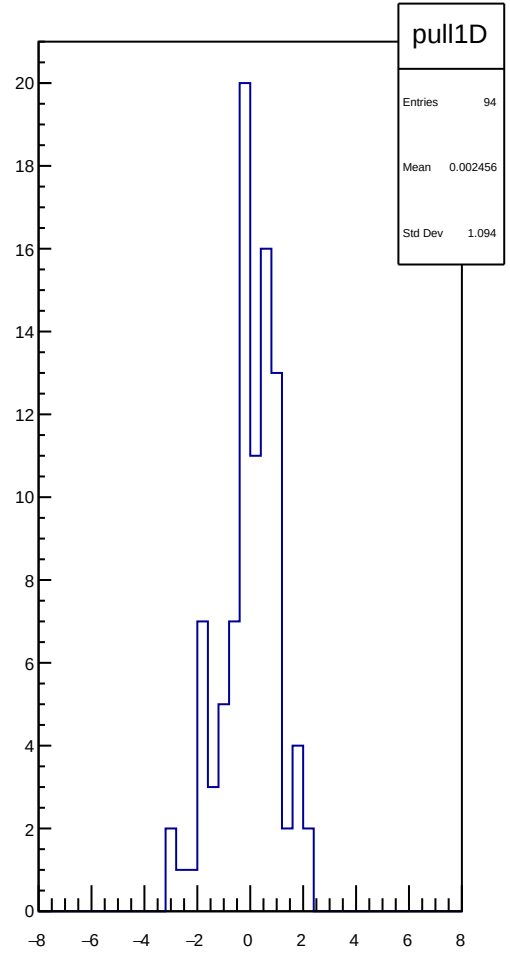

dit_asym_sam2_rms vs run
χ² / ndf 2462 / 93
p0 292.9 ± 0.2173
350
340
330
320
310
300
290
280
270

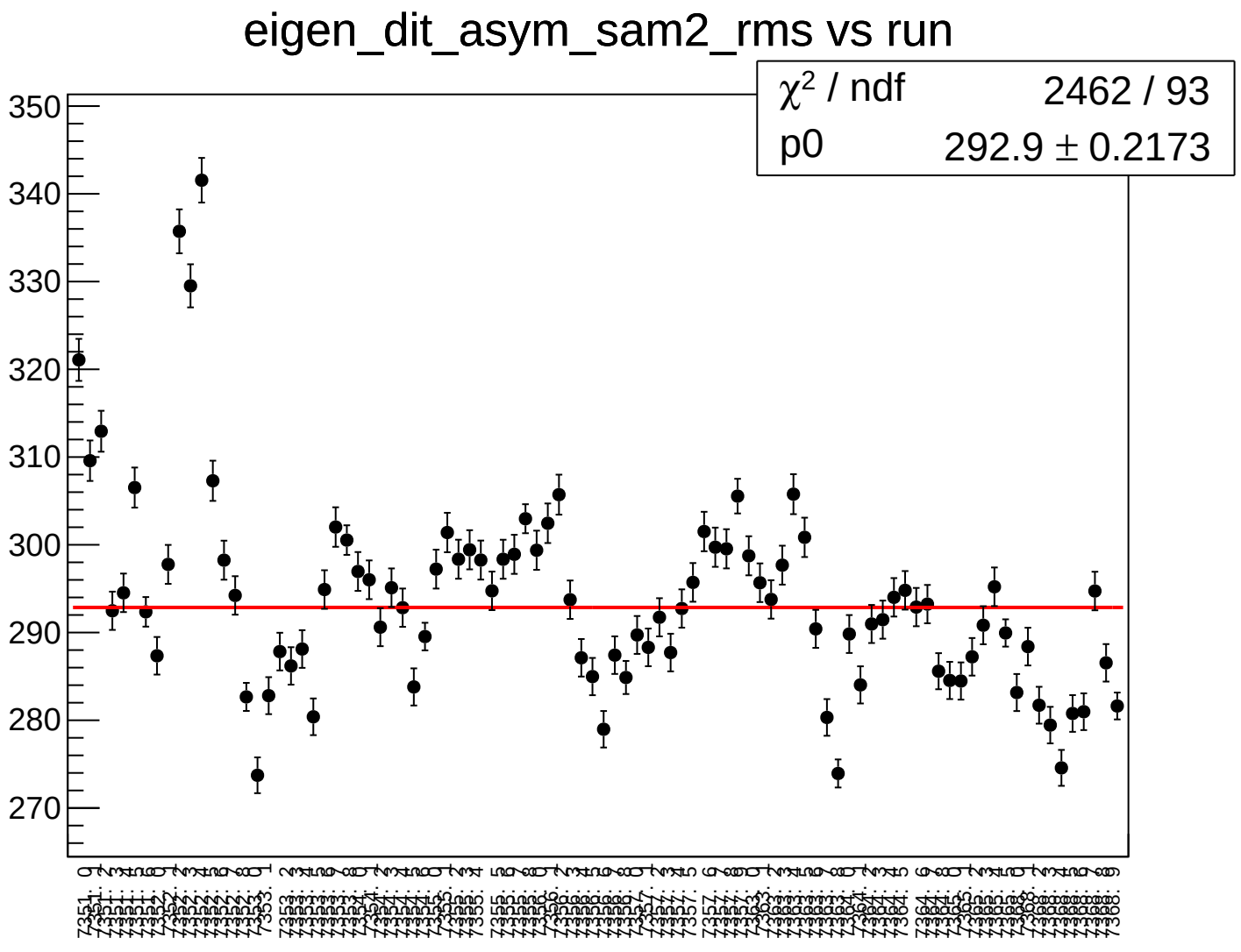

asym_sam2_dit_correction_mean vs run
×10^3
χ² / ndf 147.2 / 93
p0 1681 ± 1955
pull
Entries 94
Mean 299.1
Std Dev 0

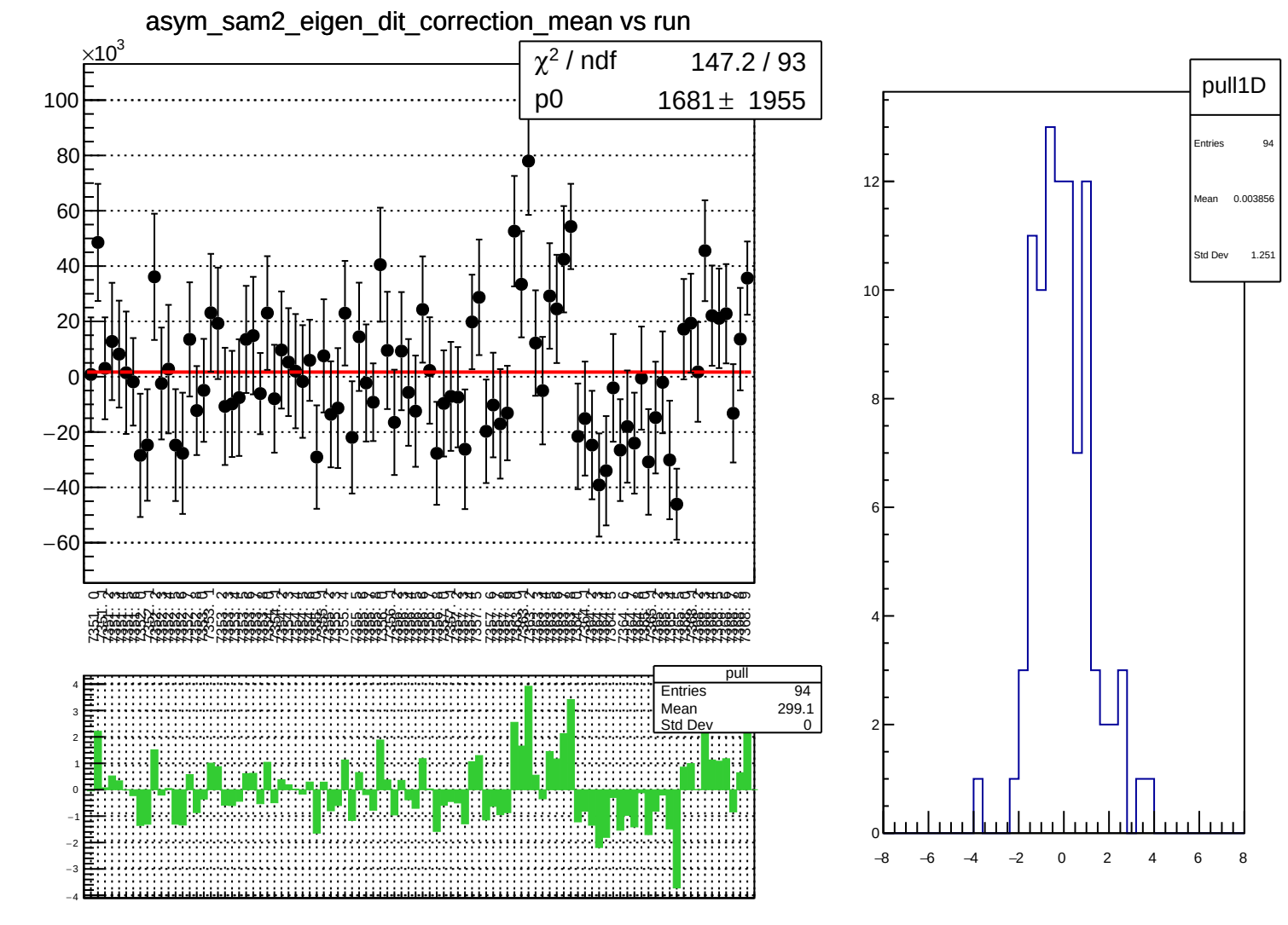

pull1D
Entries 94
Mean 0.003856
Std Dev 1.251

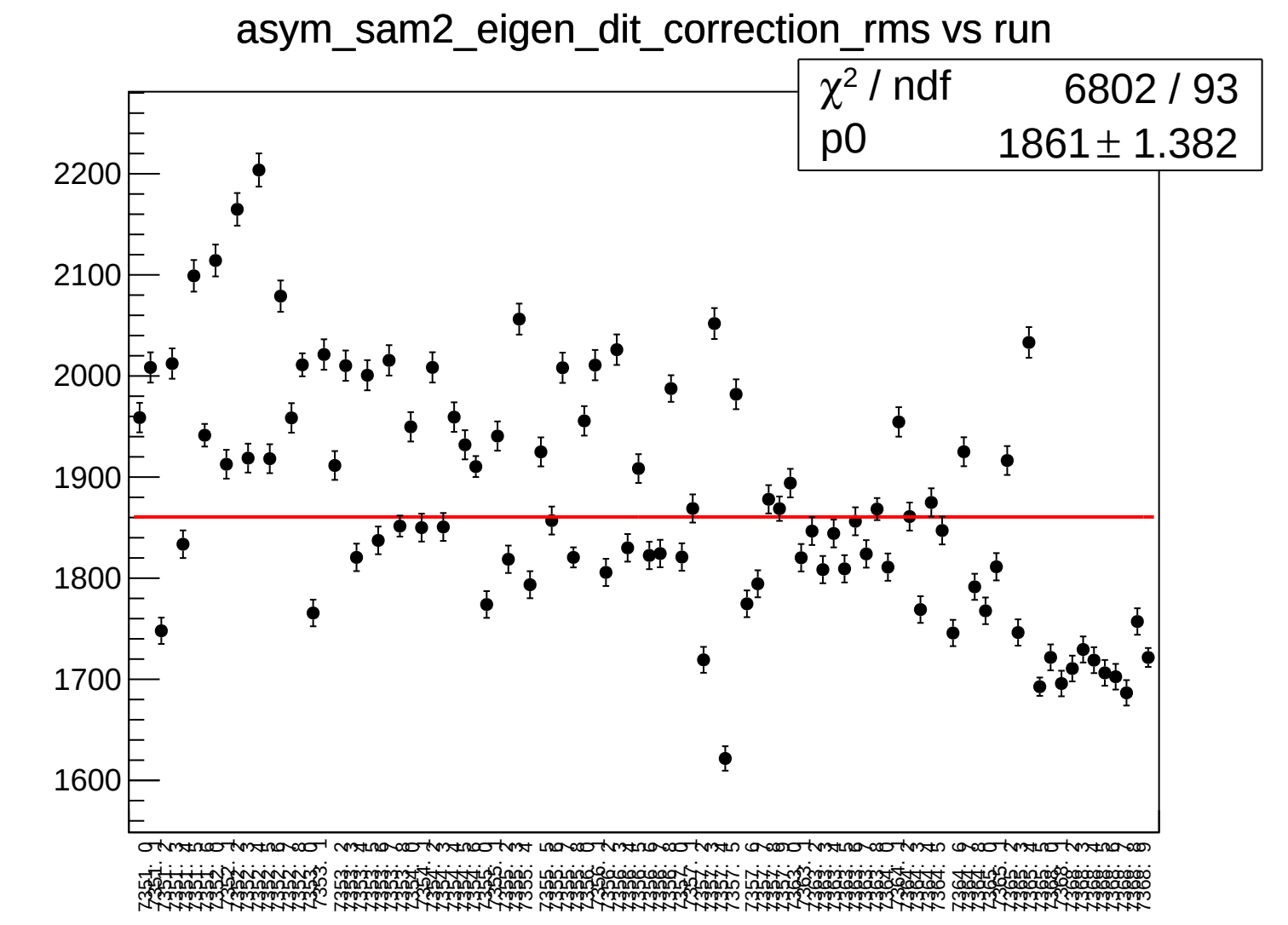

asym_sam2_dit_correction_rms vs run
χ^2 / ndf 6802 / 93
p0 1861 ± 1.382
2200
2100
2000
1900
1800
1700
1600

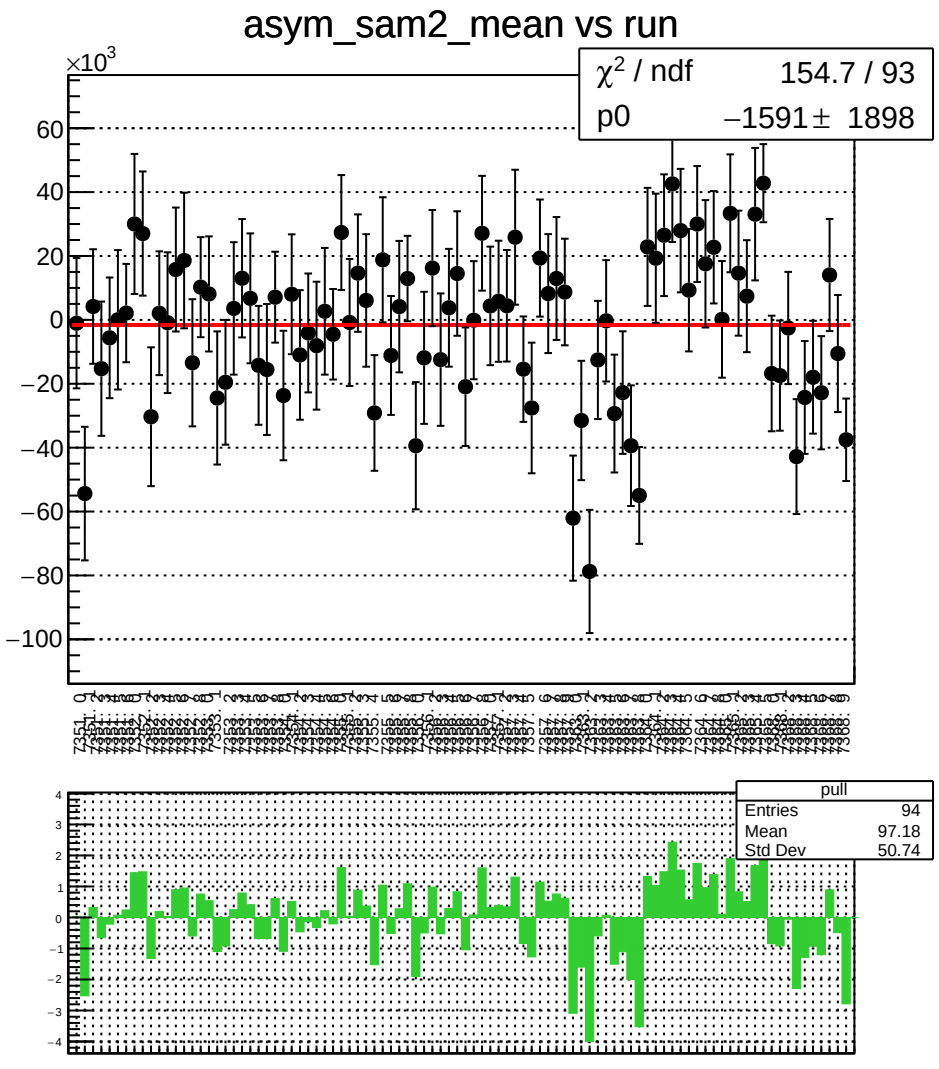

eigen_dit_asym_sam2_mean vs run
χ² / ndf 112.6 / 93
p0 −143.6 ± 307.3
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 1256
Std Dev 0
2
1
0
−1
−2
−3

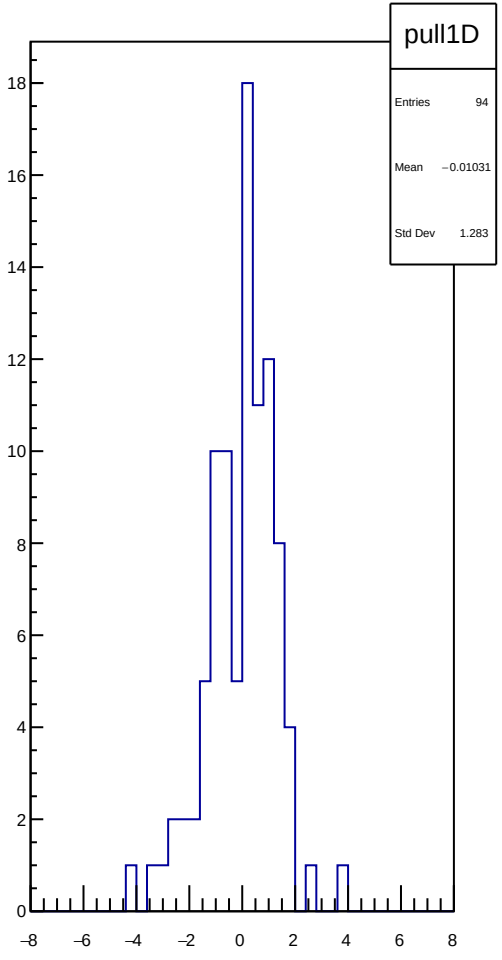

pull1D
Entries 94
Mean 0.002456
Std Dev 1.094
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

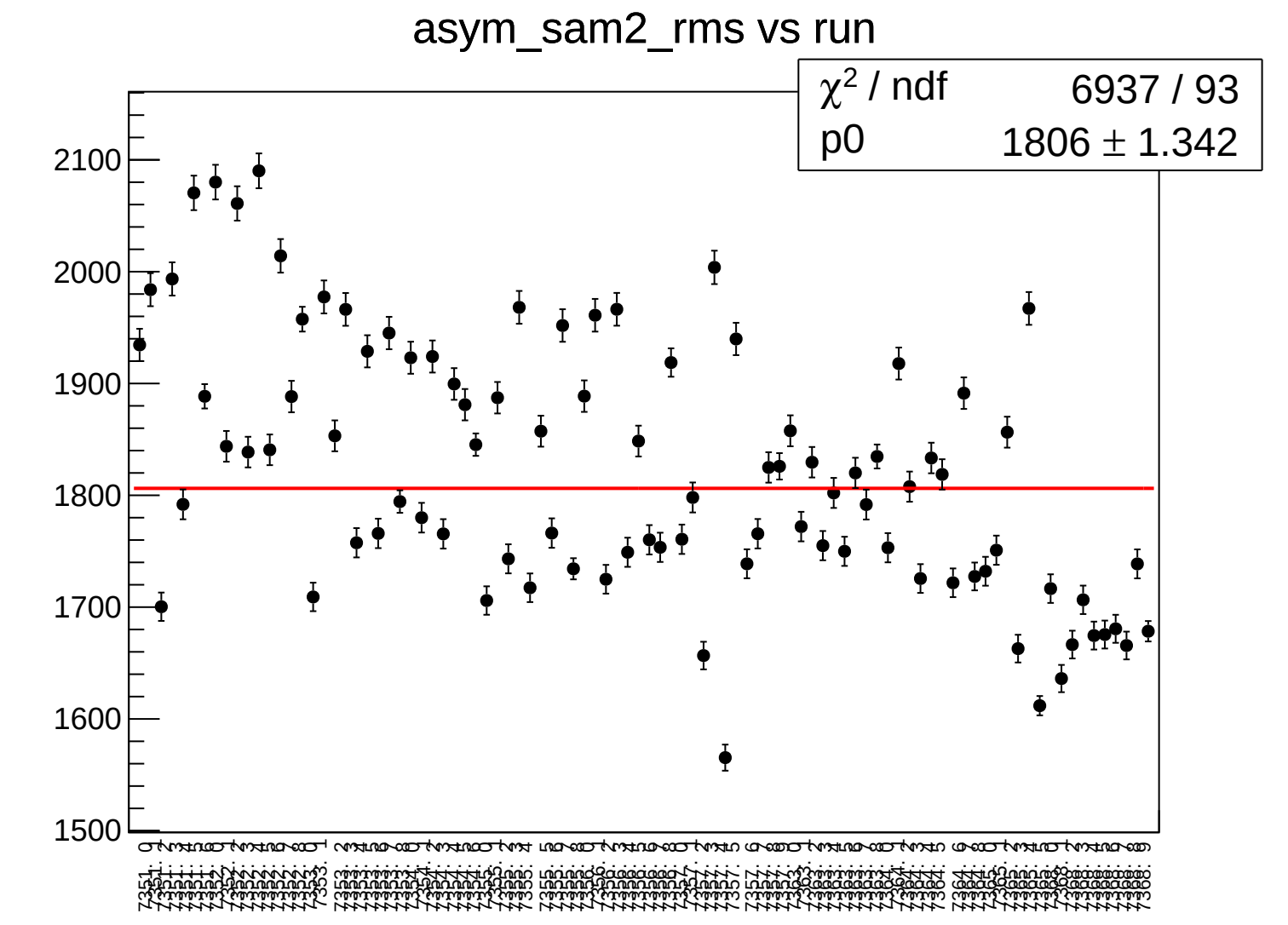

eigen_dit_asym_sam2_rms vs run
χ² / ndf 2462 / 93
p0 292.9 ± 0.2173
350
340
330
320
310
300
290
280
270

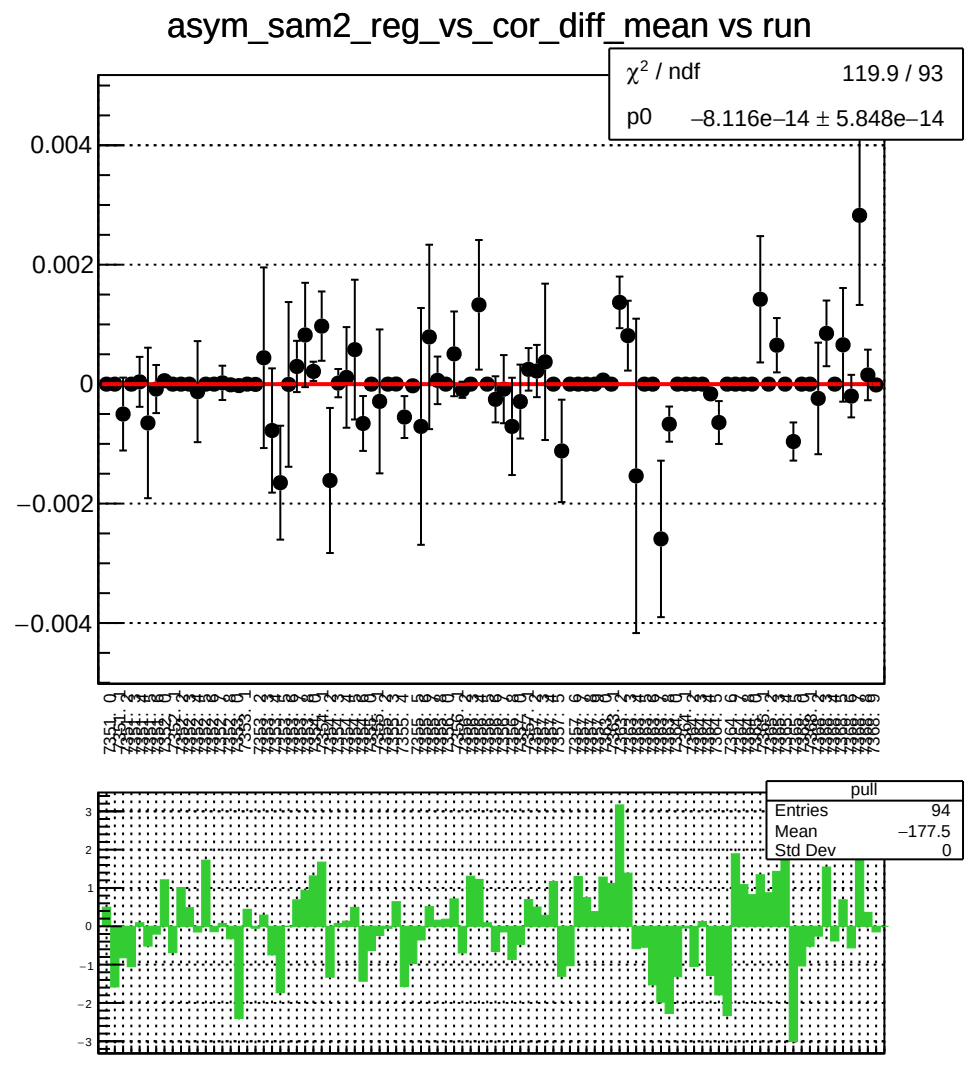

asym_sam2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 147.2 / 93
p0 1681 ± 1955
100
80
60
40
20
0
−20
−40
−60
pull
Entries 94
Mean 299.1
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 94
Mean 0.003856
Std Dev 1.251
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

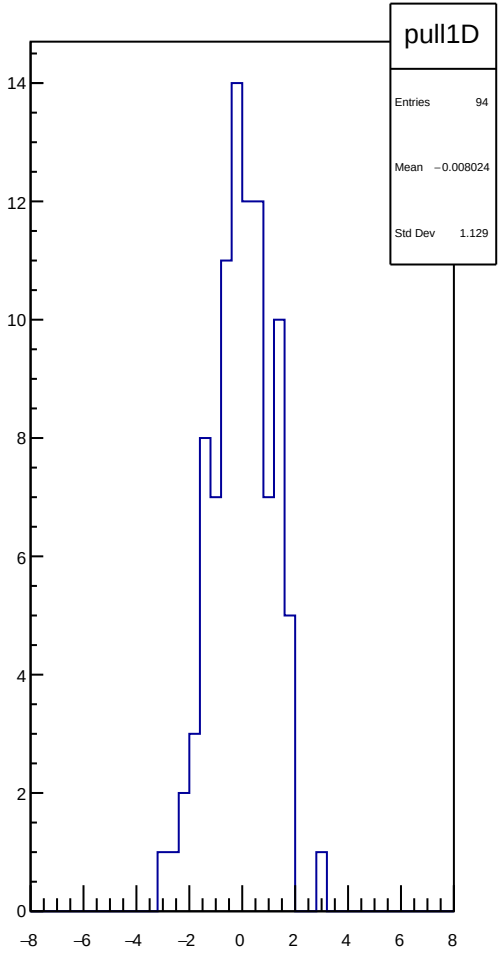

asym_sam2_eigen_dit_correction_rms vs run
χ² / ndf 6802 / 93
p0 1861 ± 1.382
2200
2100
2000
1900
1800
1700
1600

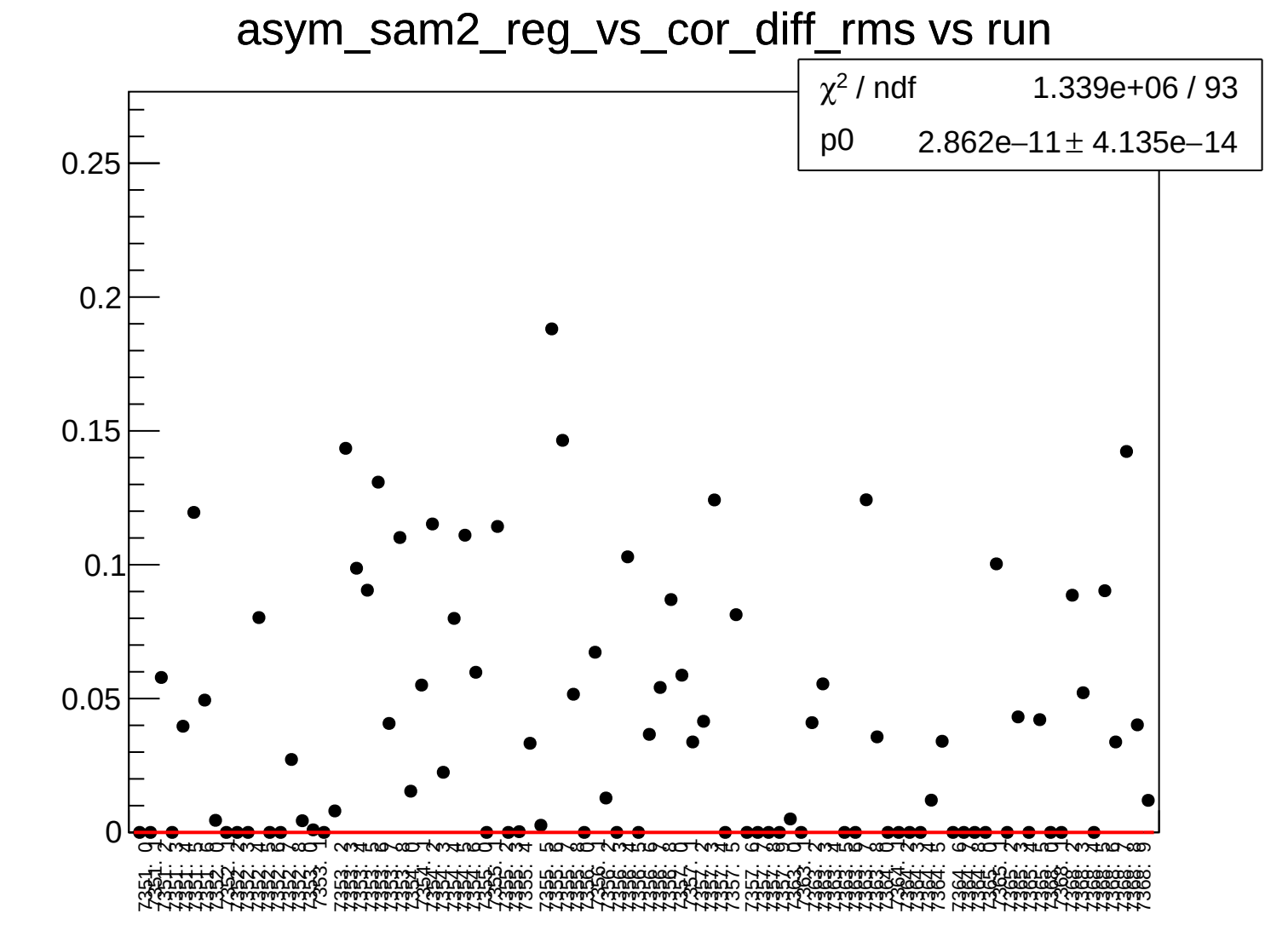

asym_sam2_mean vs run
×10^3
χ^2 / ndf 154.7 / 93
p0 −1591 ± 1898
pull
Entries 94
Mean 97.18
Std Dev 50.74

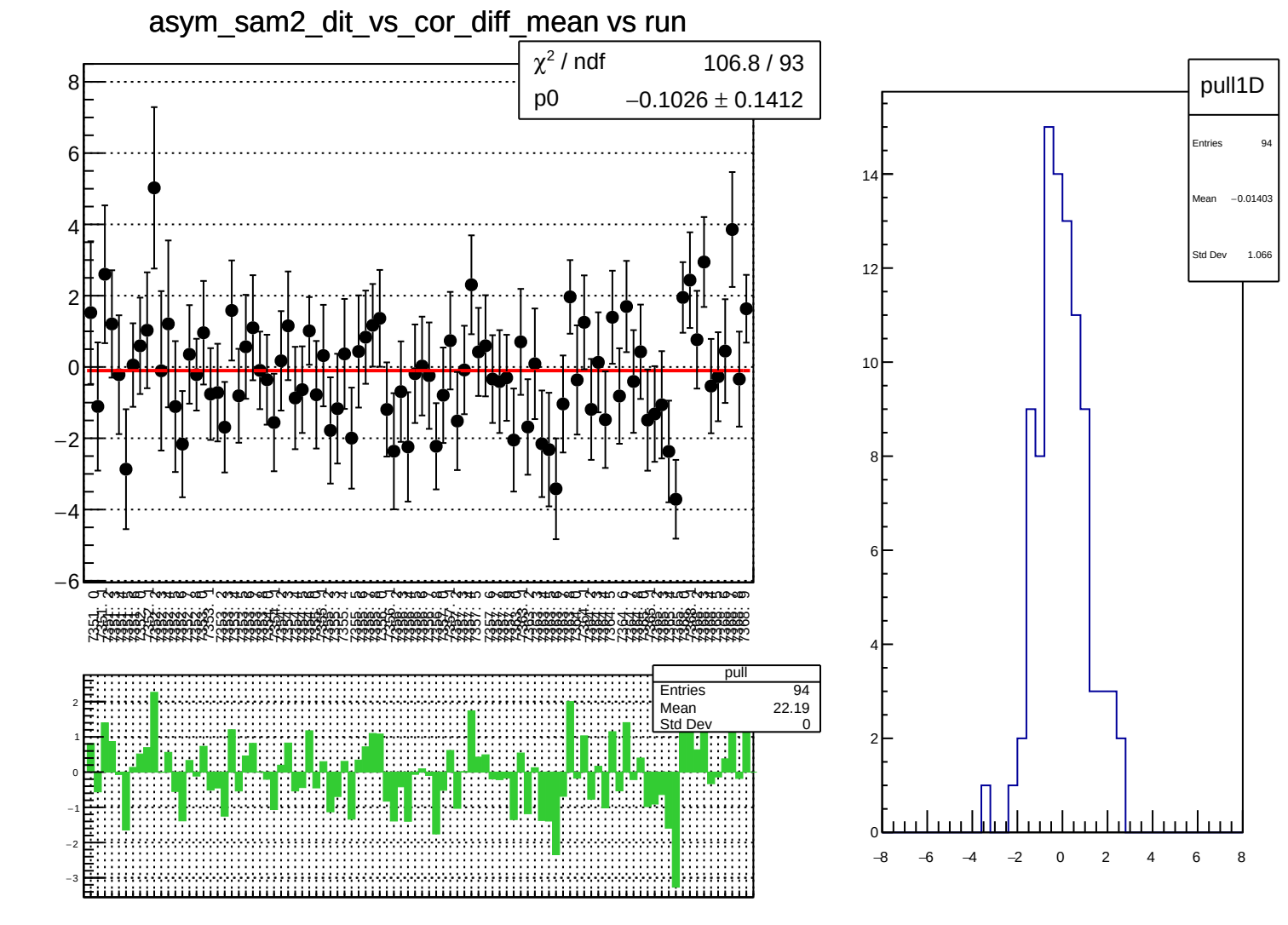

pull1D
Entries 94
Mean −0.01031
Std Dev 1.283

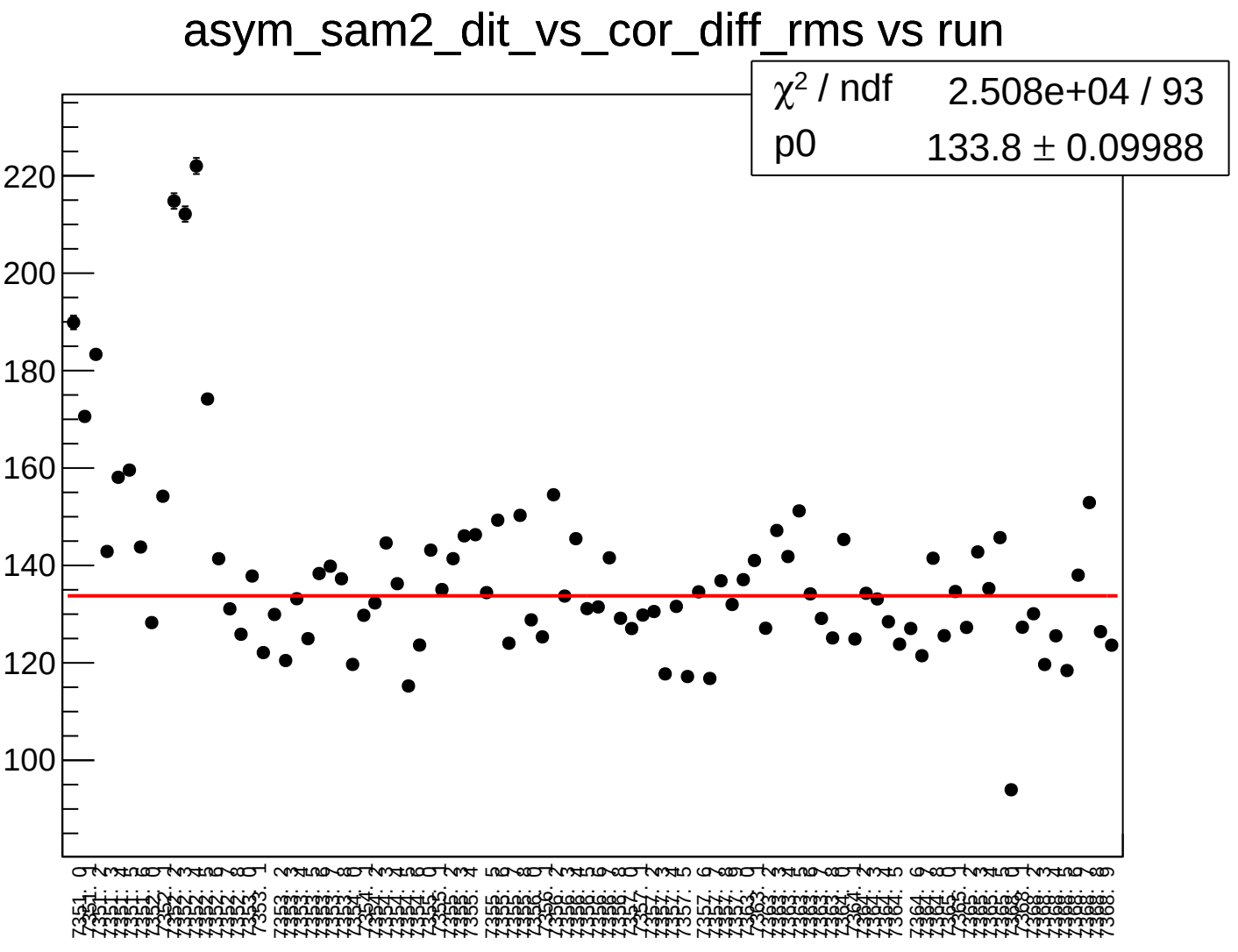

asym_sam2_rms vs run
χ^2 / ndf 6937 / 93
p0 1806 ± 1.342
2100
2000
1900
1800
1700
1600
1500

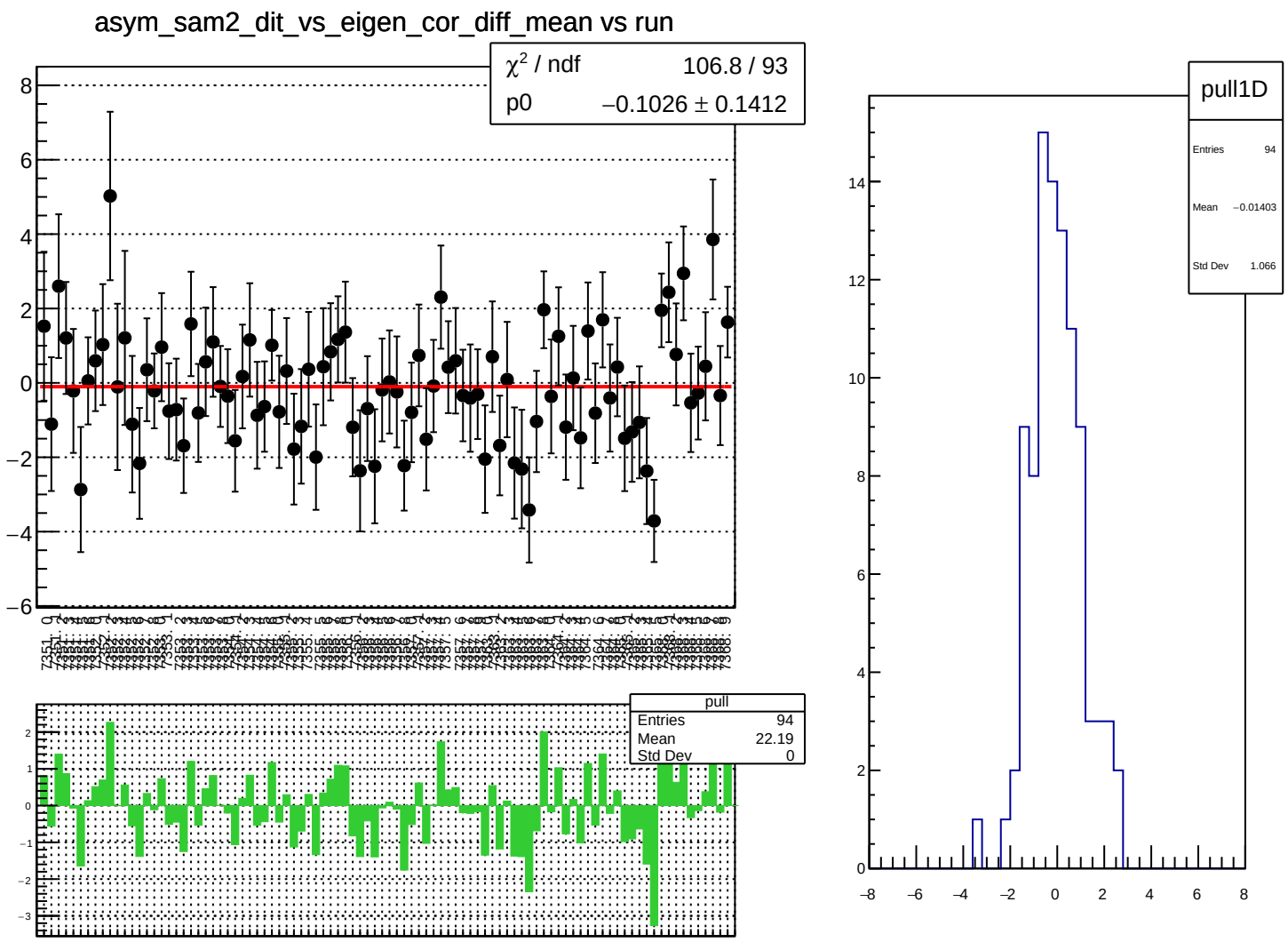

asym_sam2_reg_vs_cor_diff_mean vs run
χ² / ndf 119.9 / 93
p0 −8.116e−14 ± 5.848e−14
0.004
0.002
0
−0.002
−0.004
pull
Entries 94
Mean −177.5
Std Dev 0
3
2
1
0
−1
−2
−3

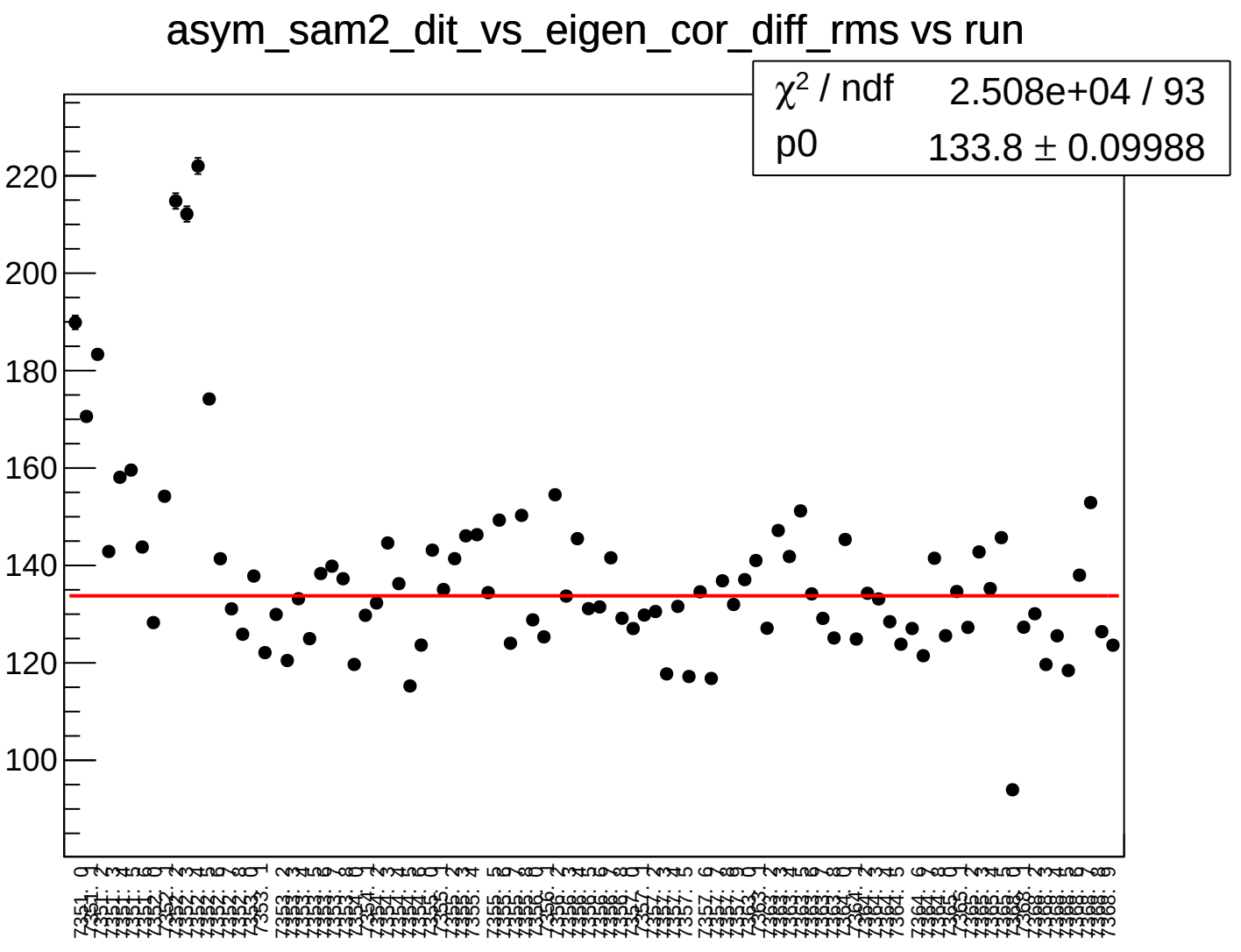

pull1D
Entries 94
Mean −0.008024
Std Dev 1.129
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

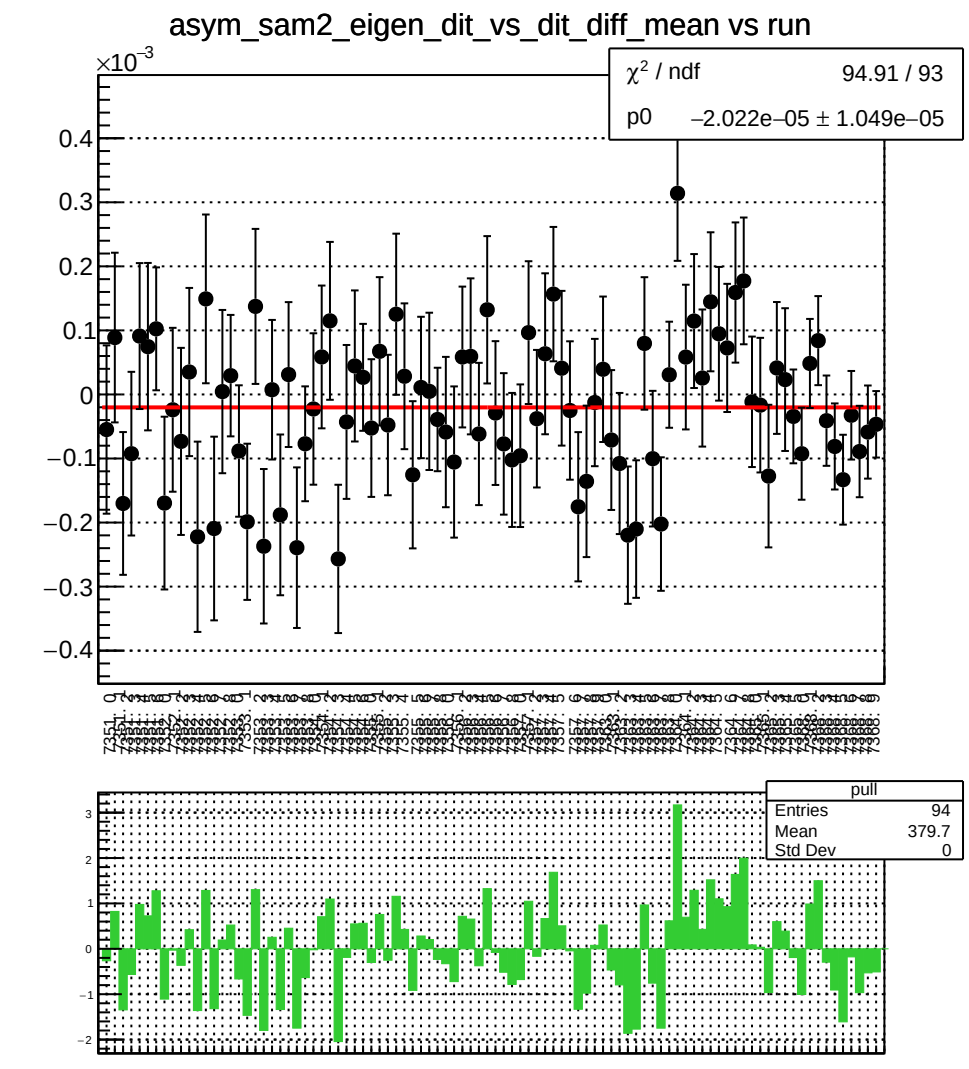

asym_sam2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.339e+06 / 93
p0 2.862e−11 ± 4.135e−14
0.25
0.2
0.15
0.1
0.05
0

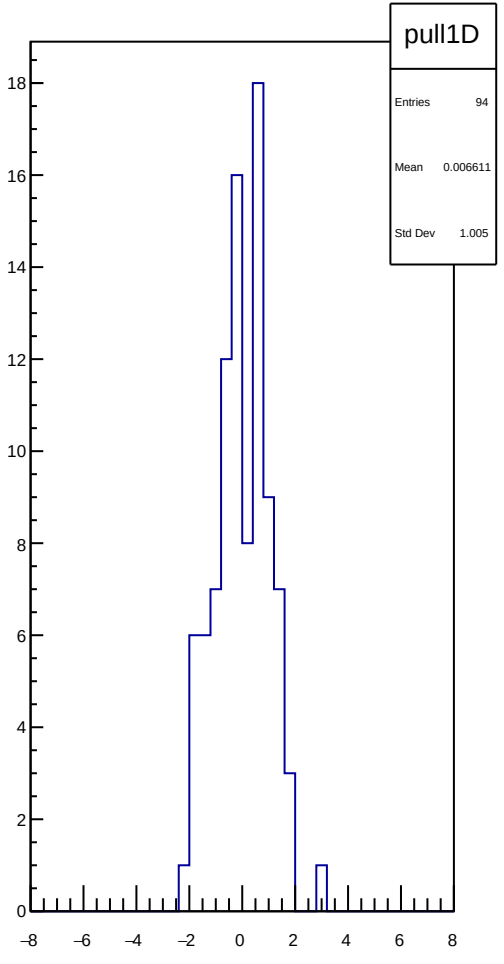

asym_sam2_dit_vs_cor_diff_mean vs run
χ² / ndf 106.8 / 93
p0 −0.1026 ± 0.1412
pull
Entries 94
Mean 22.19
Std Dev 0
pull1D
Entries 94
Mean −0.01403
Std Dev 1.066

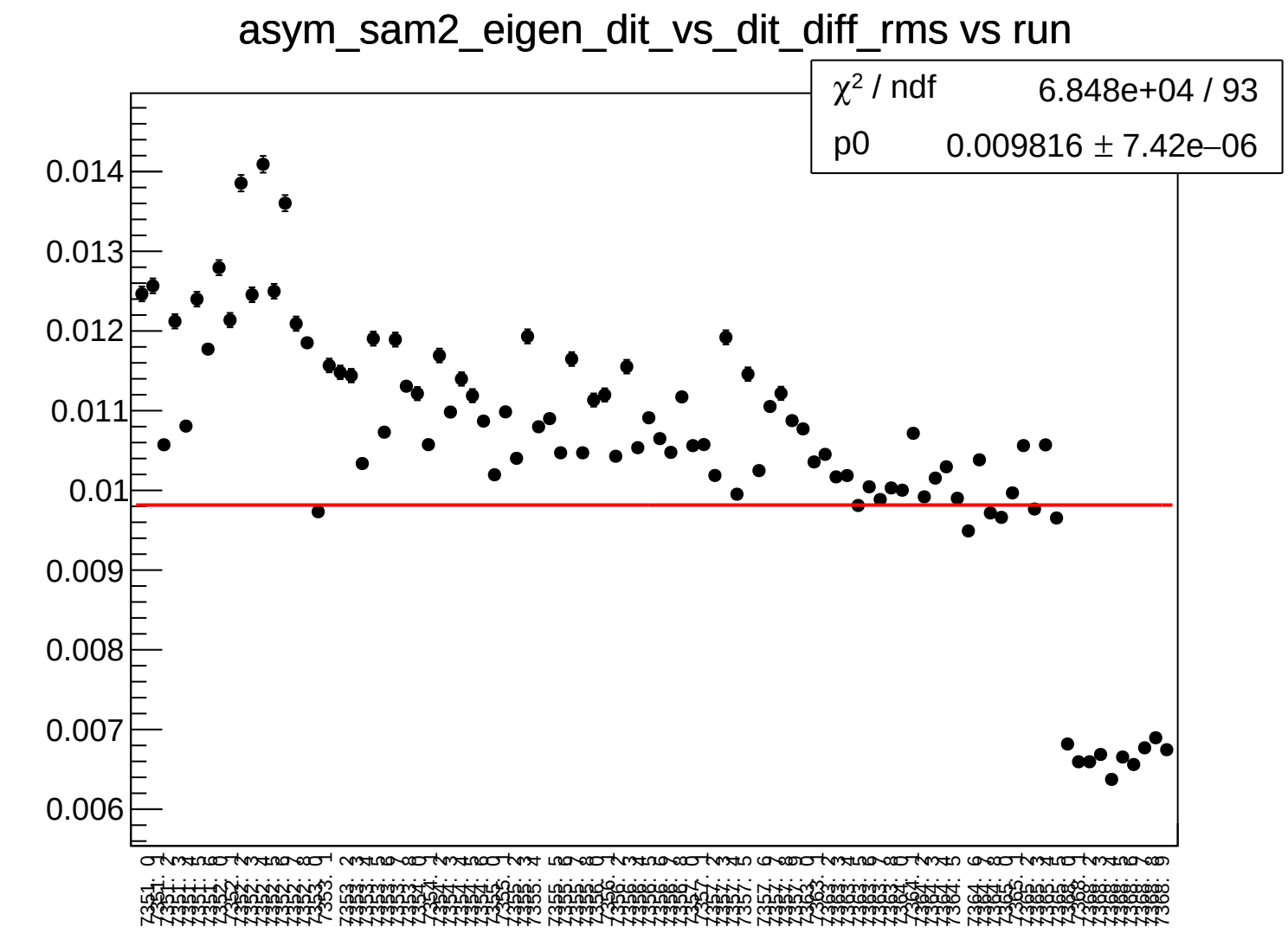

asym_sam2_dit_vs_cor_diff_rms vs run
χ² / ndf 2.508e+04 / 93
p0 133.8 ± 0.09988
220
200
180
160
140
120
100

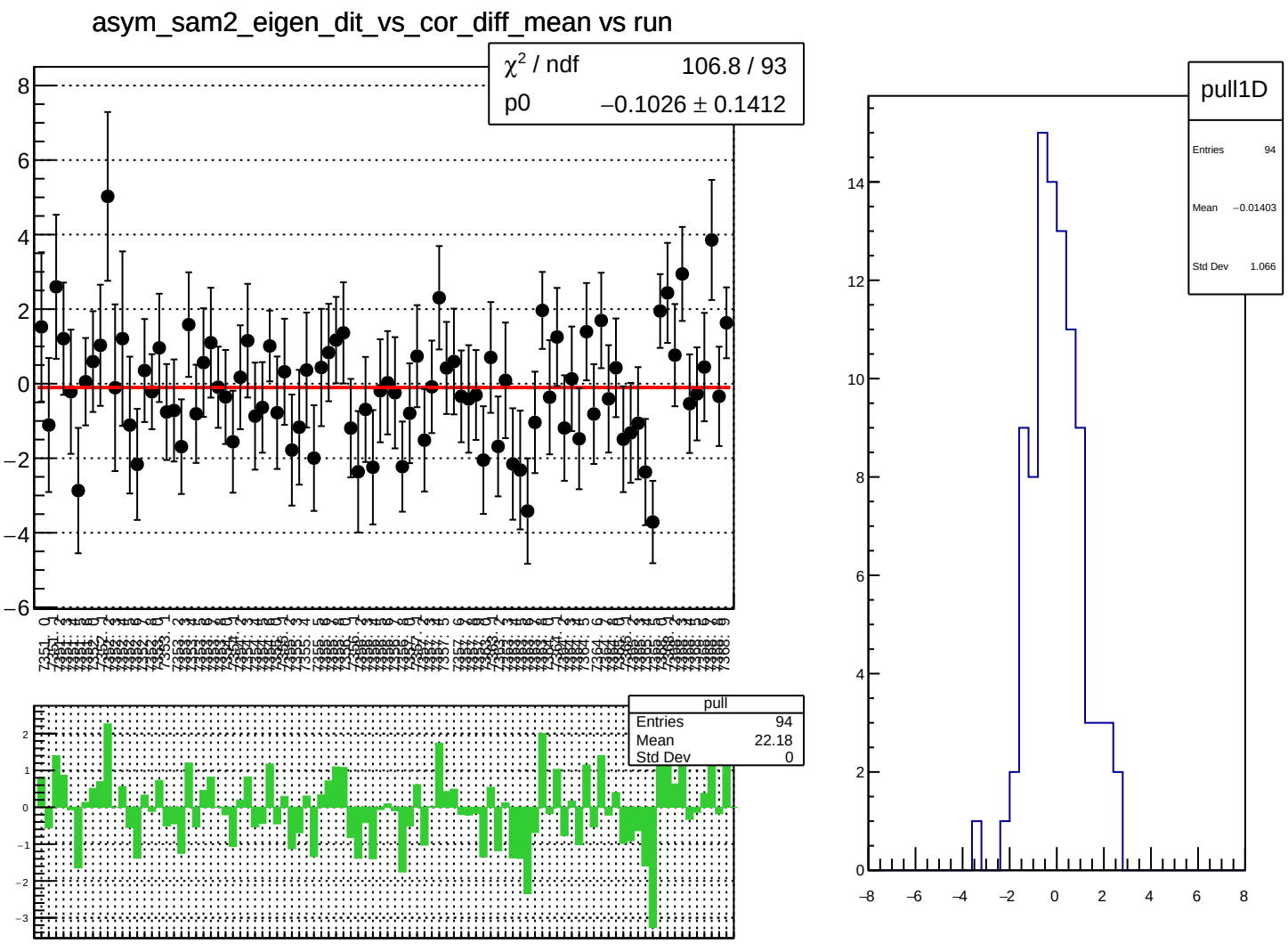

asym_sam2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.8 / 93
p0 −0.1026 ± 0.1412
pull
Entries 94
Mean 22.19
Std Dev 0
pull1D
Entries 94
Mean −0.01403
Std Dev 1.066

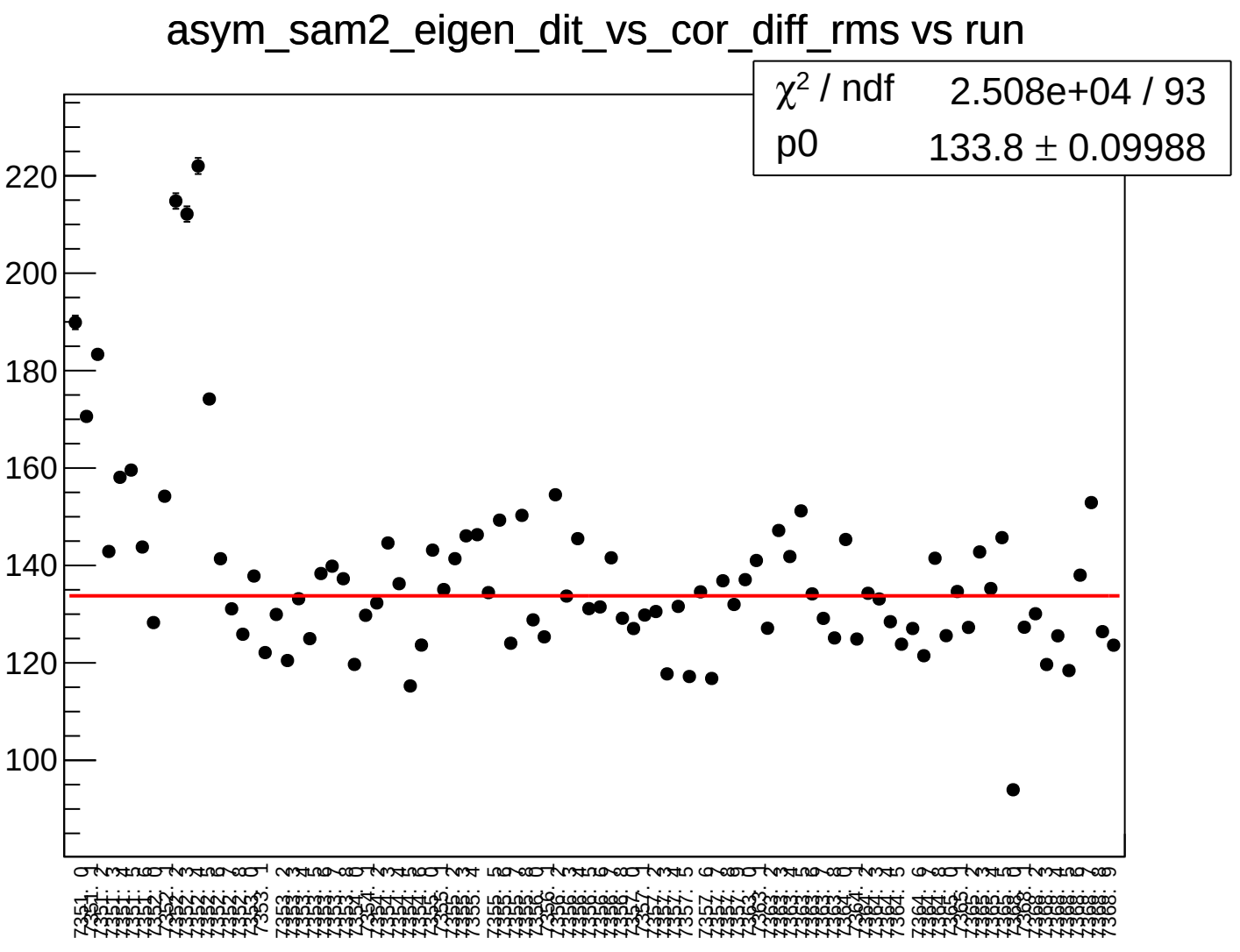

asym_sam2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.508e+04 / 93
p0 133.8 ± 0.09988
220
200
180
160
140
120
100

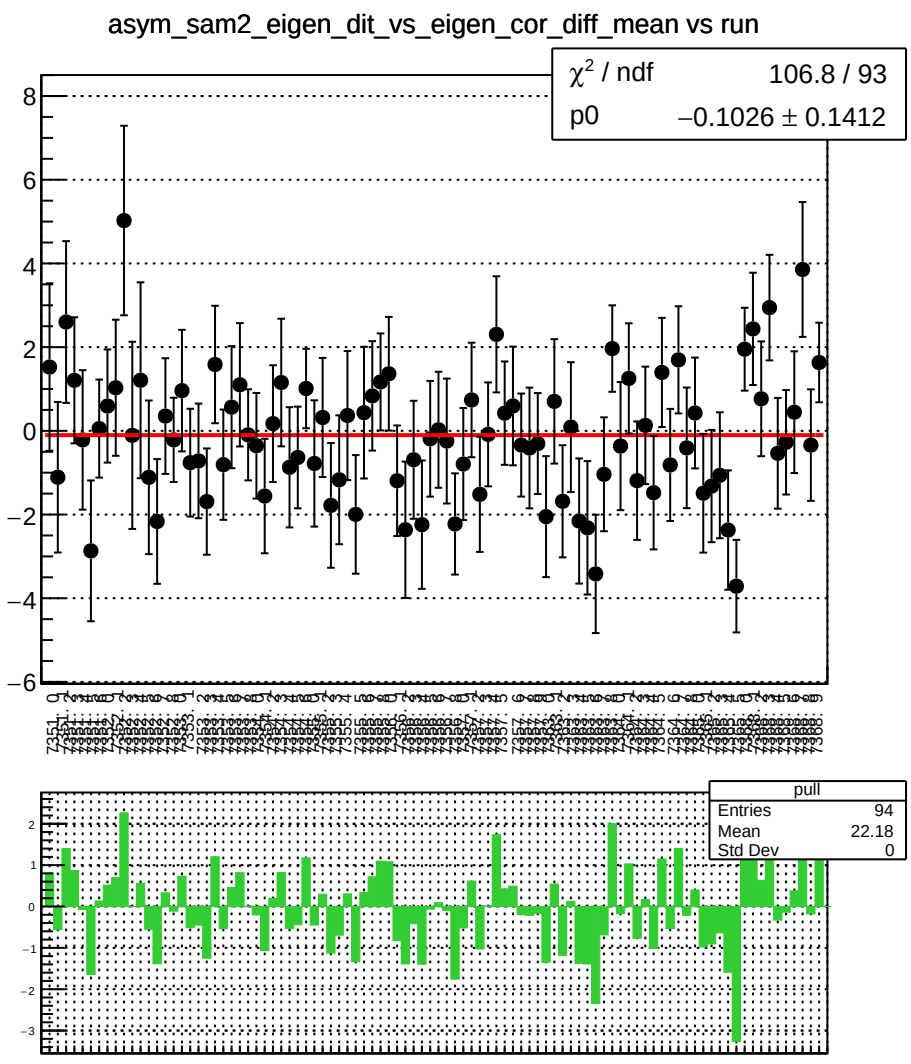

asym_sam2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 94.91 / 93
p0 −2.022e−05 ± 1.049e−05
pull
Entries 94
Mean 379.7
Std Dev 0

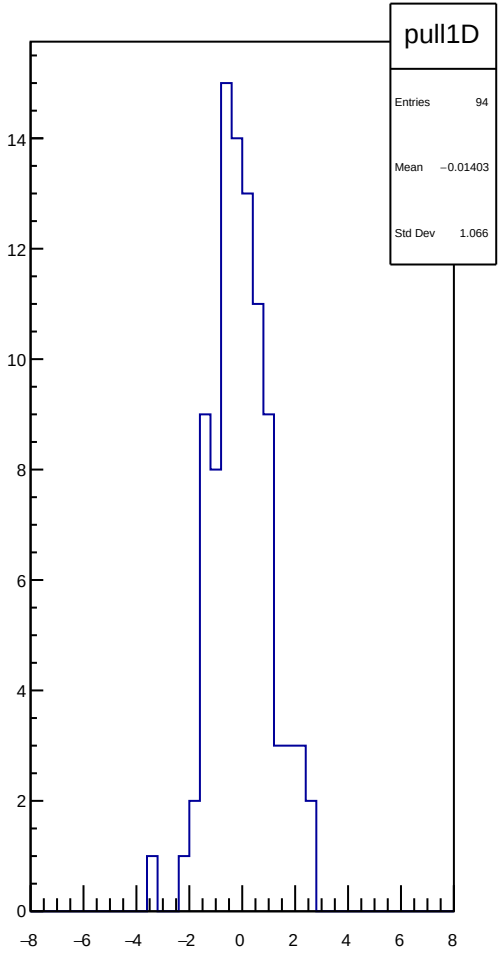

pull1D
Entries 94
Mean 0.006611
Std Dev 1.005

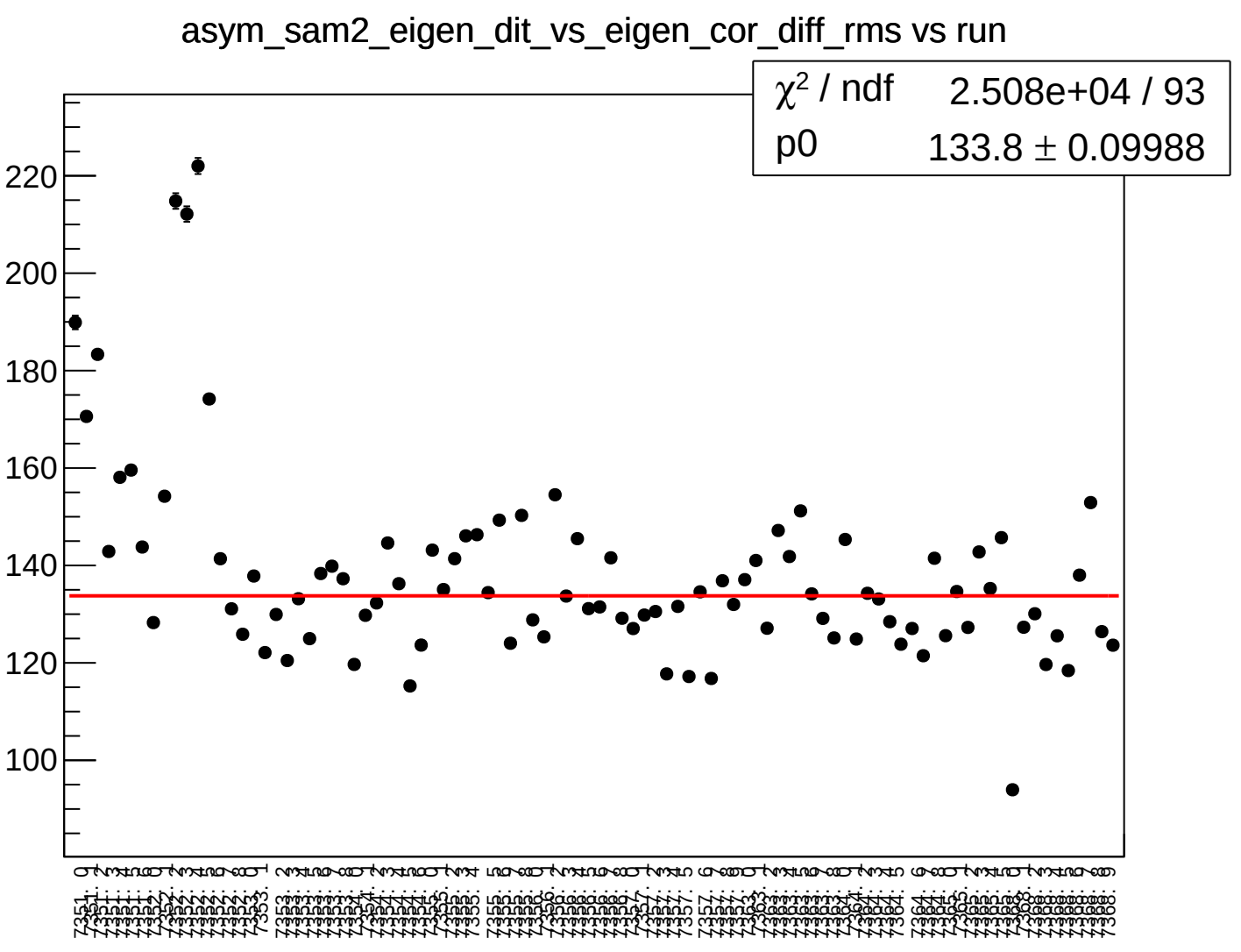

asym_sam2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.848e+04 / 93
p0 0.009816 ± 7.42e–06
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006

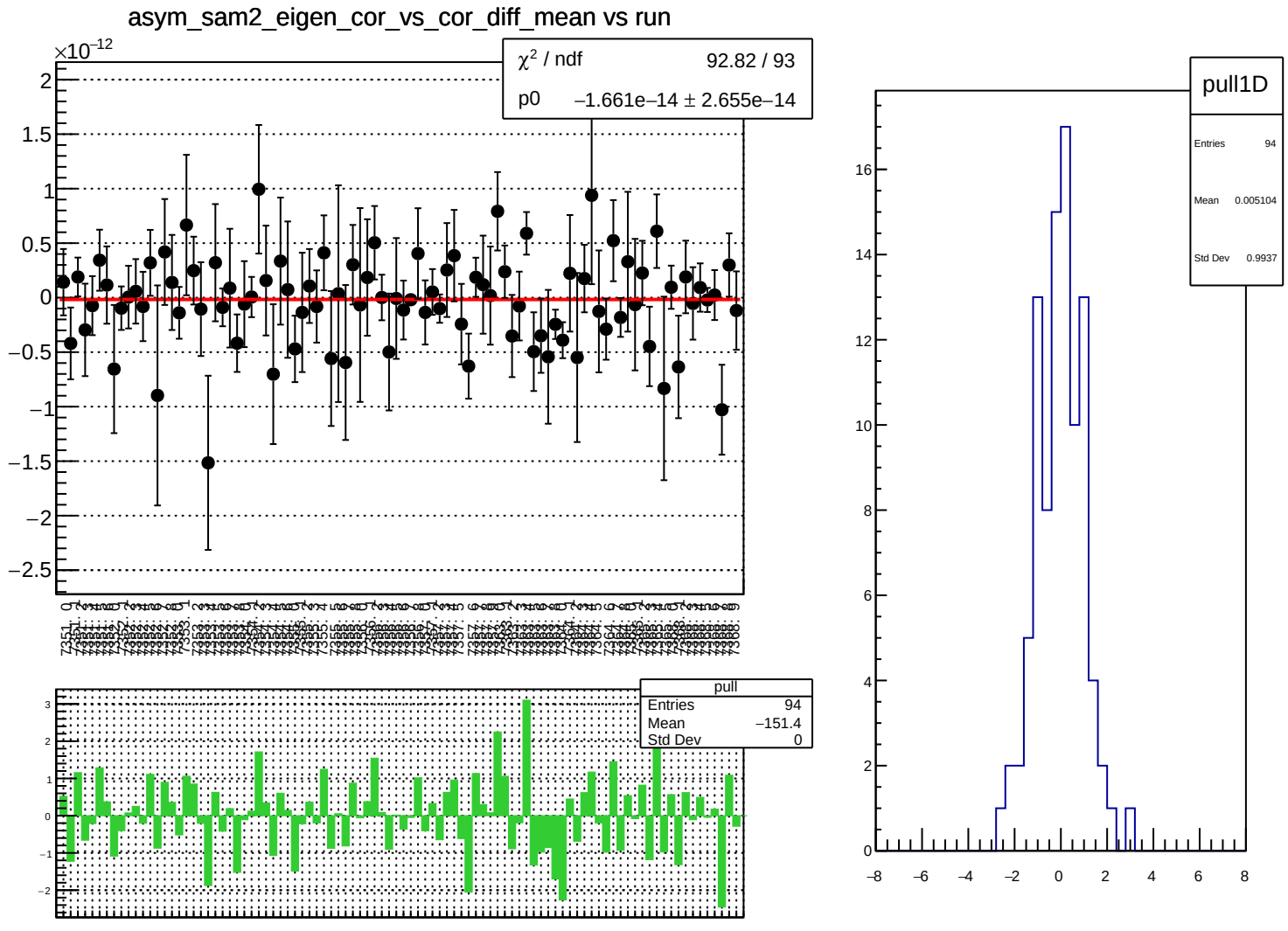

asym_sam2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 106.8 / 93
p0 −0.1026 ± 0.1412
pull
Entries 94
Mean 22.18
Std Dev 0
pull1D
Entries 94
Mean −0.01403
Std Dev 1.066

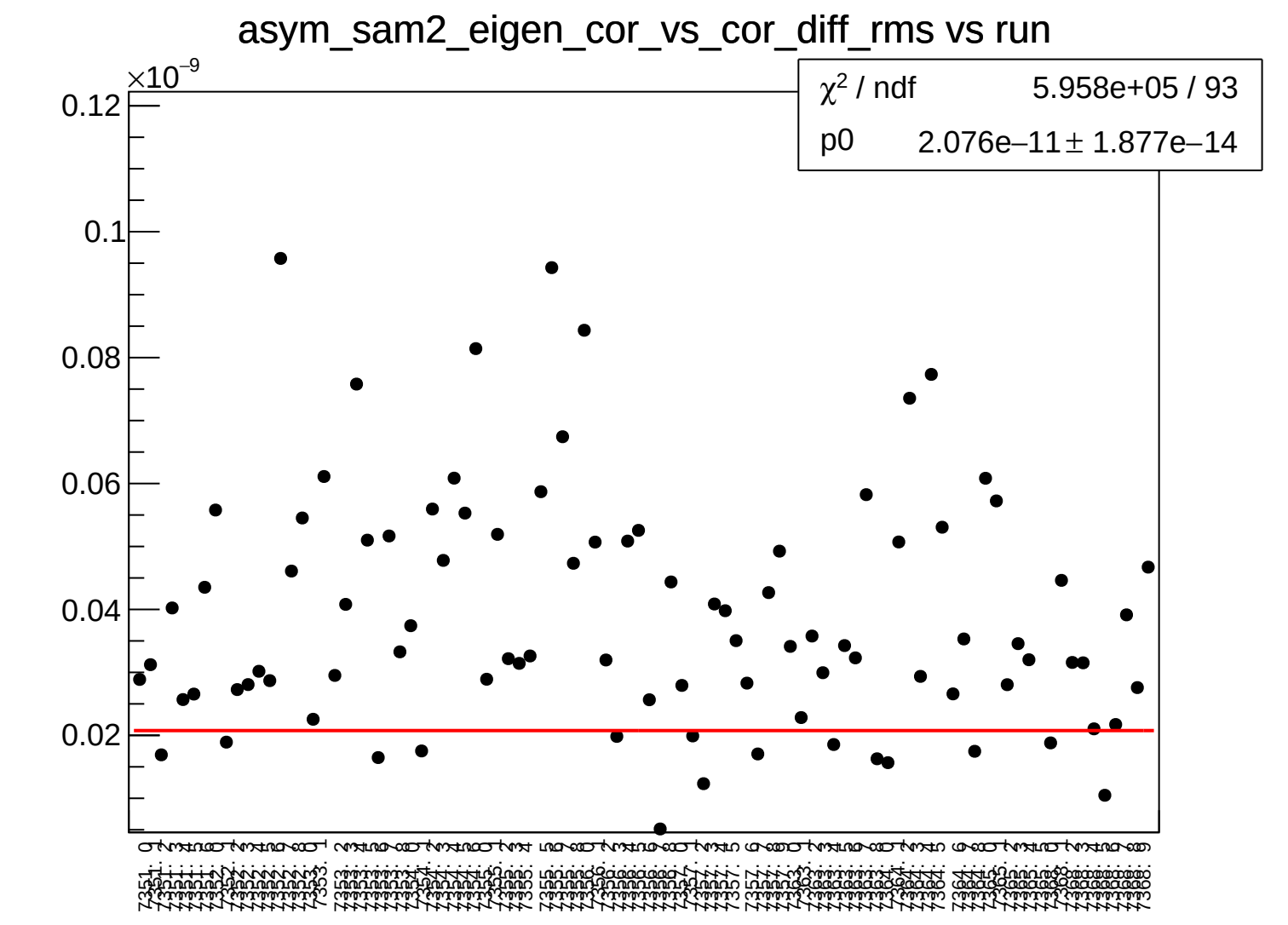

asym_sam2_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.508e+04 / 93
p0 133.8 ± 0.09988
220
200
180
160
140
120
100

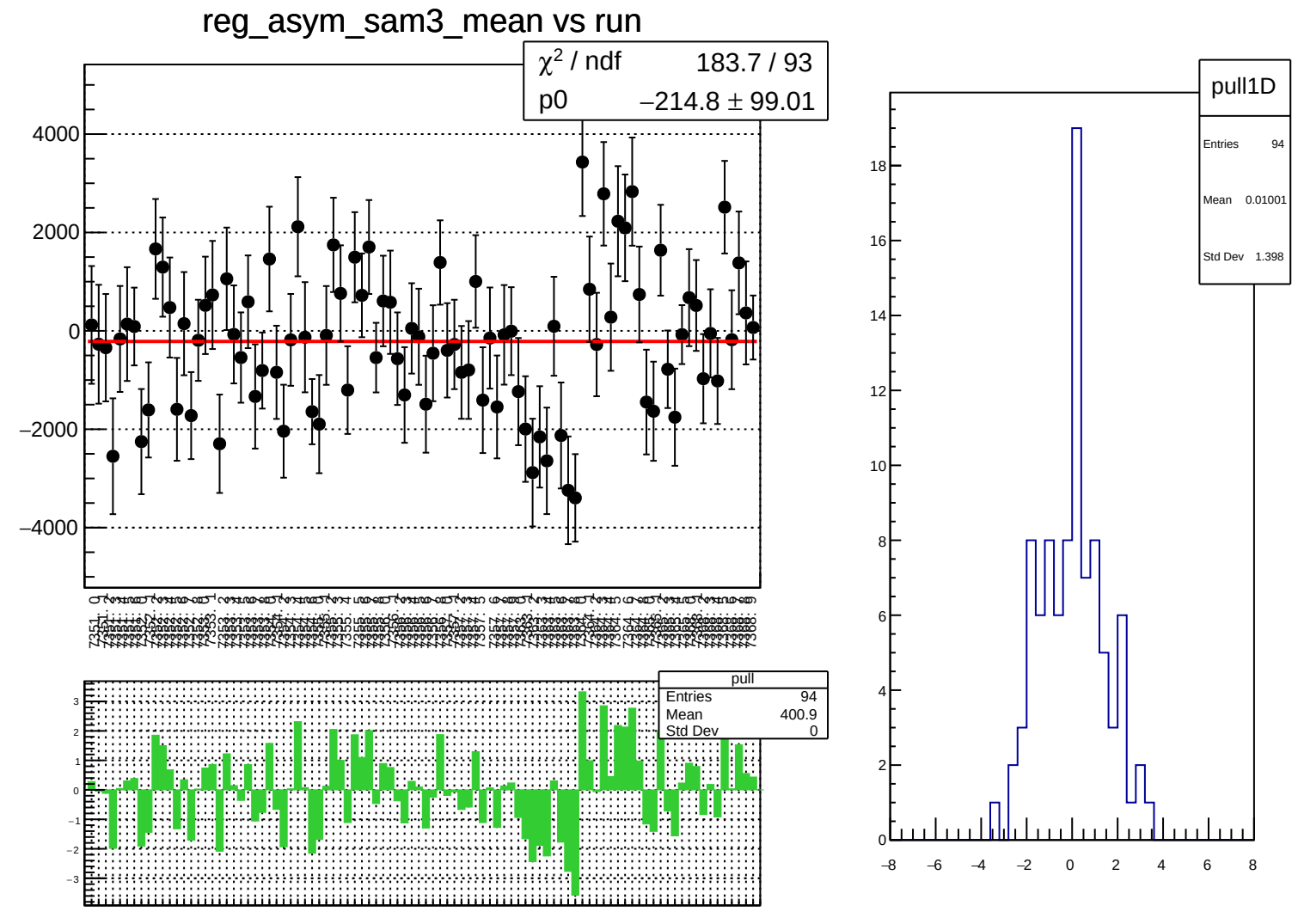

asym_sam2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.8 / 93
p0 −0.1026 ± 0.1412
pull
Entries 94
Mean 22.18
Std Dev 0

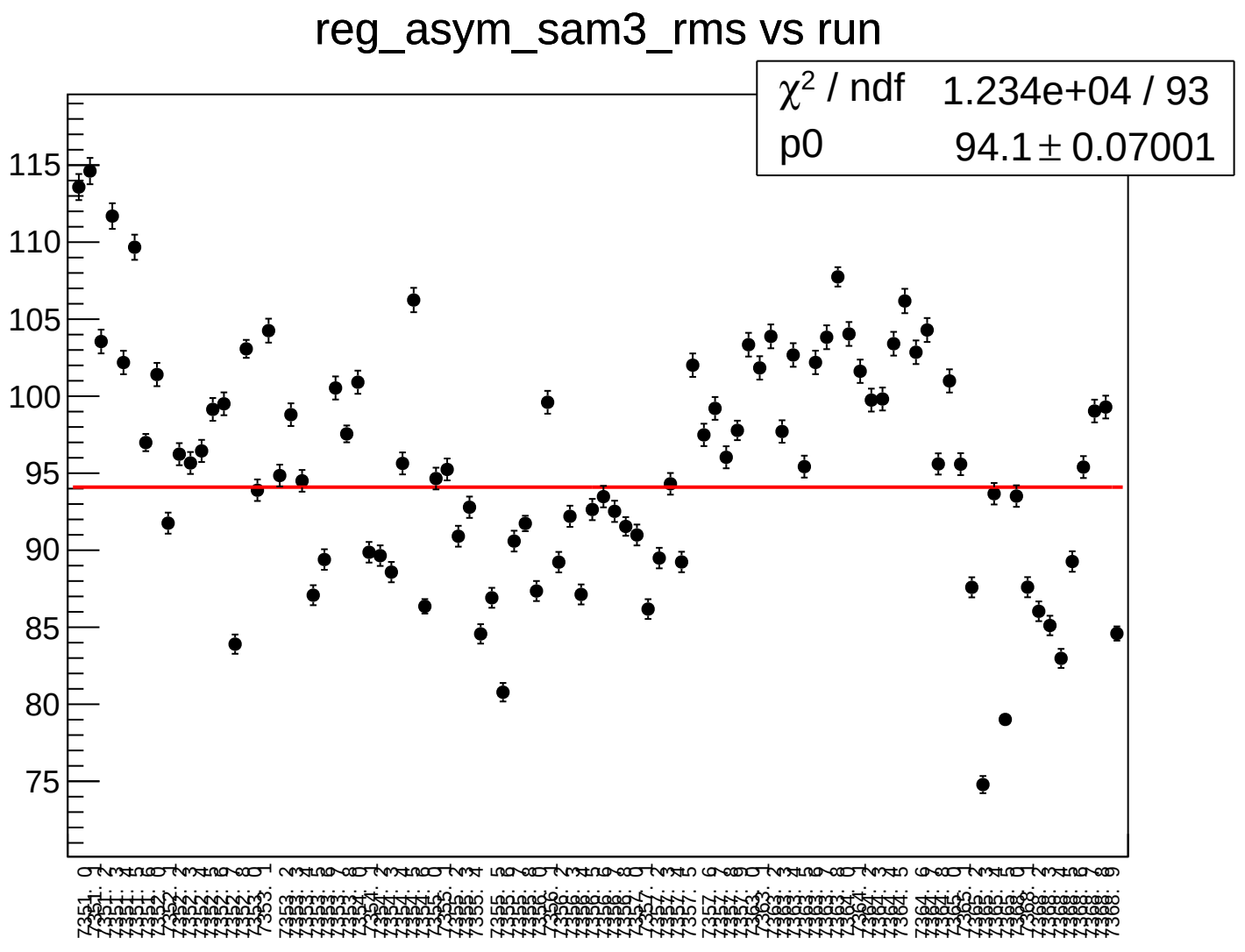

pull1D
Entries 94
Mean −0.01403
Std Dev 1.066

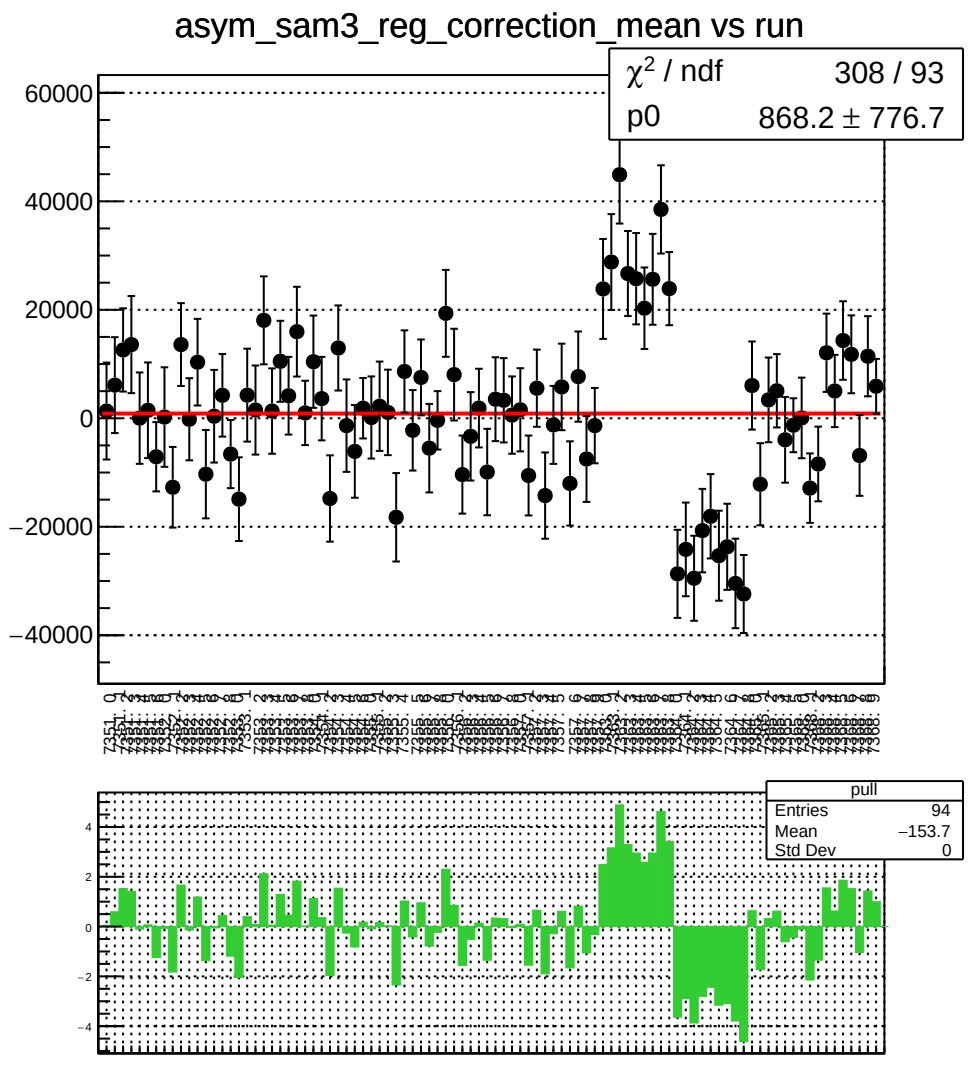

asym_sam2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.508e+04 / 93
p0 133.8 ± 0.09988
220
200
180
160
140
120
100

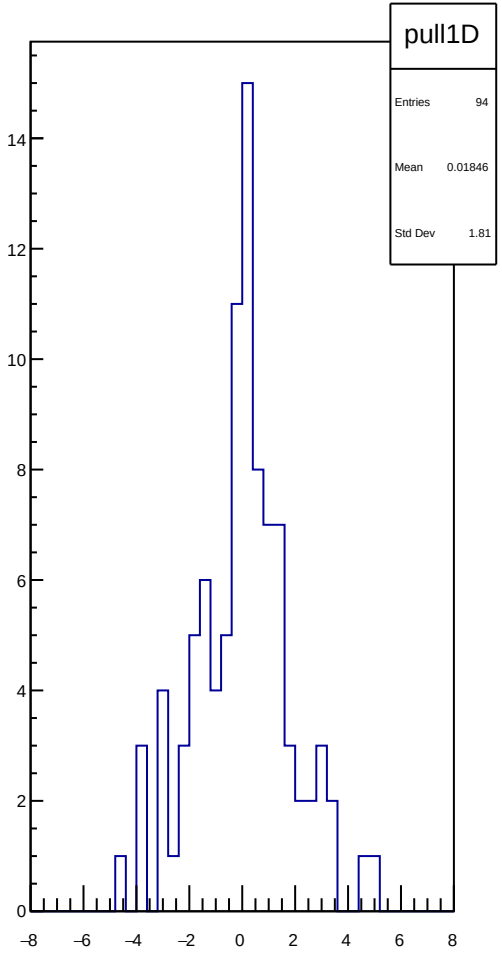

asym_sam2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.82 / 93
p0 −1.661e−14 ± 2.655e−14
pull
Entries 94
Mean −151.4
Std Dev 0
pull1D
Entries 94
Mean 0.005104
Std Dev 0.9937

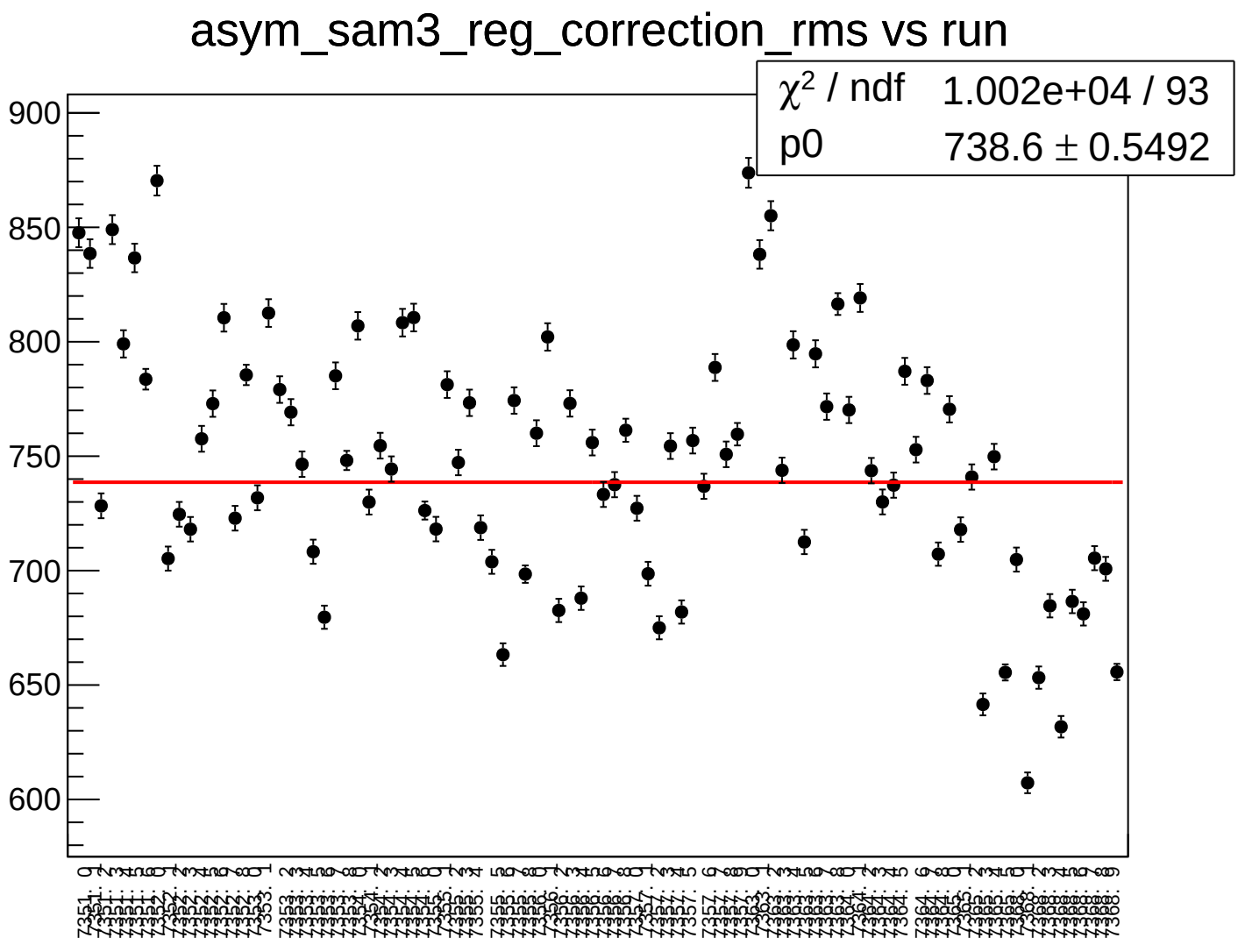

asym_sam2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.12
0.1
0.08
0.06
0.04
0.02
χ² / ndf 5.958e+05 / 93
p0 2.076e−11 ± 1.877e−14

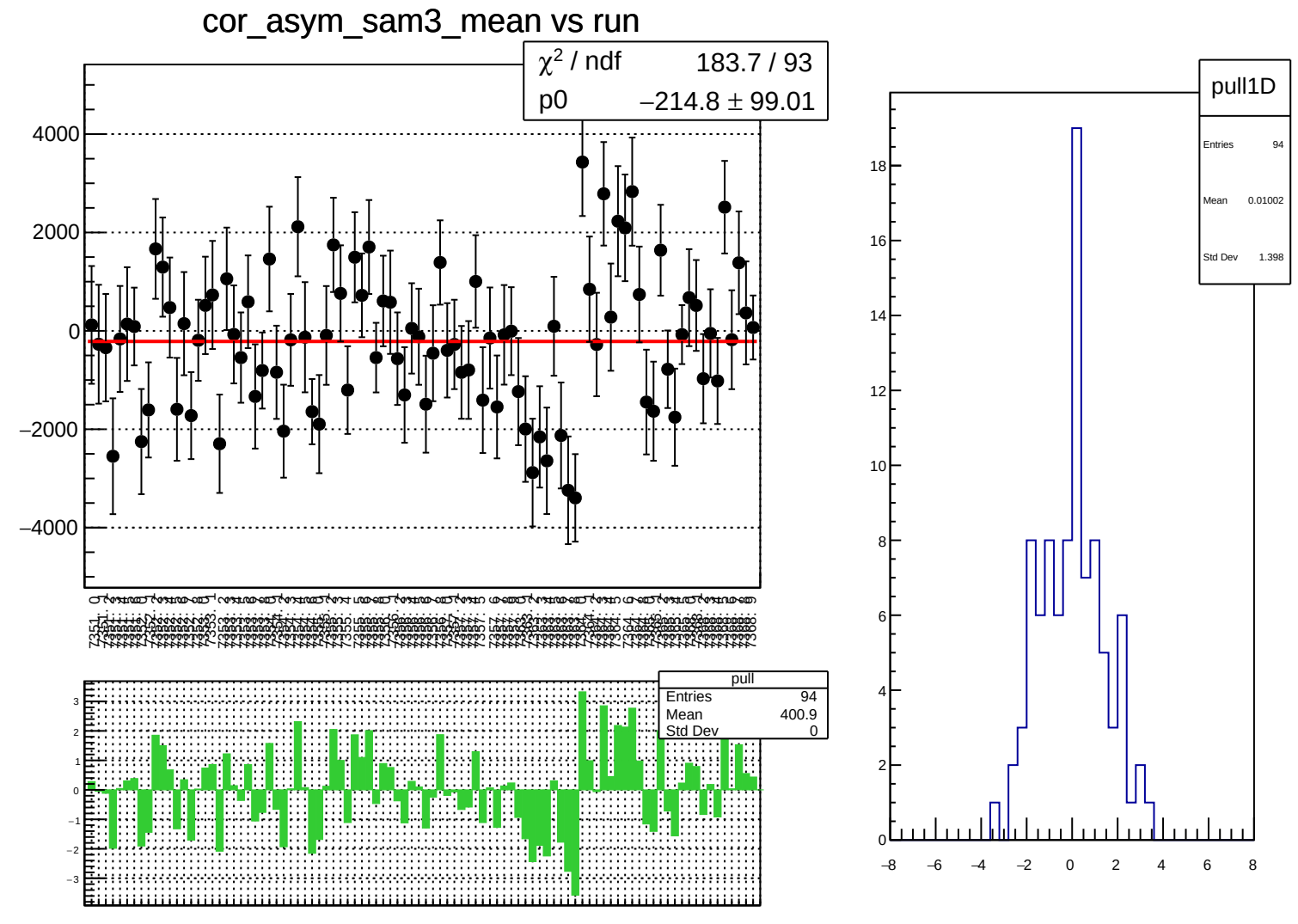

reg_asym_sam3_mean vs run
χ² / ndf 183.7 / 93
p0 −214.8 ± 99.01
4000
2000
0
−2000
−4000
pull
Entries 94
Mean 400.9
Std Dev 0
pull1D
Entries 94
Mean 0.01001
Std Dev 1.398

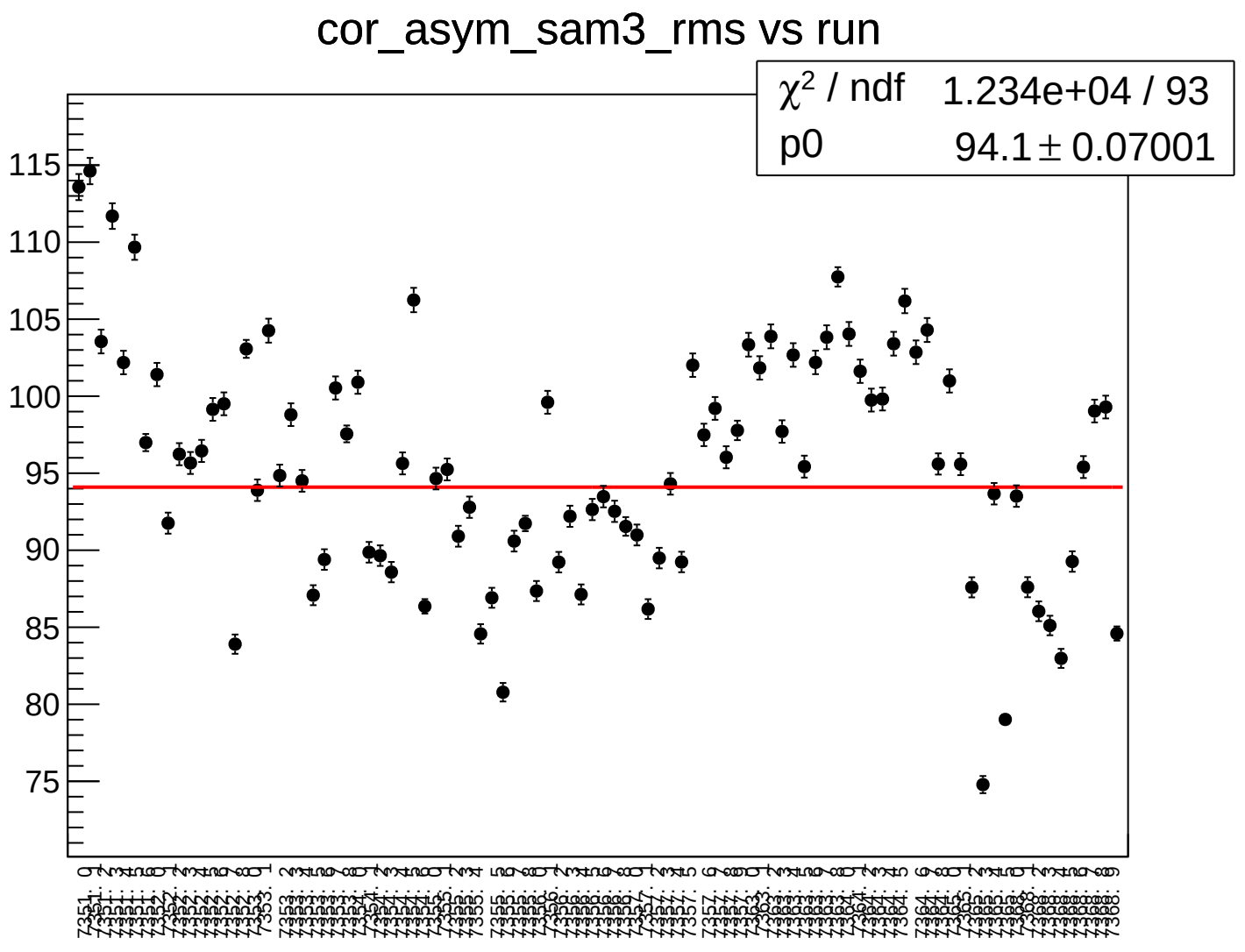

reg_asym_sam3_rms vs run
χ^2 / ndf 1.234e+04 / 93
p0 94.1 ± 0.07001
115
110
105
100
95
90
85
80
75

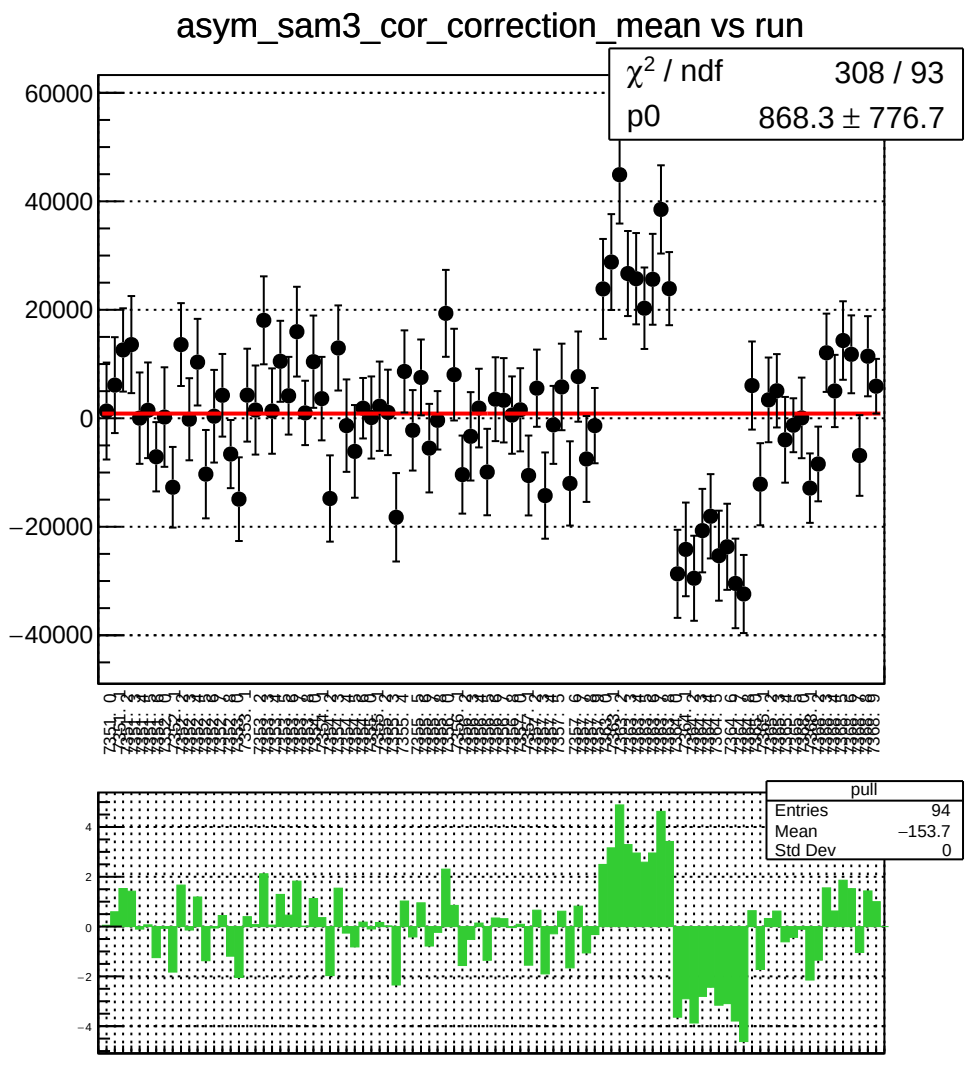

asym_sam3_reg_correction_mean vs run
χ² / ndf 308 / 93
p0 868.2 ± 776.7
pull
Entries 94
Mean −153.7
Std Dev 0

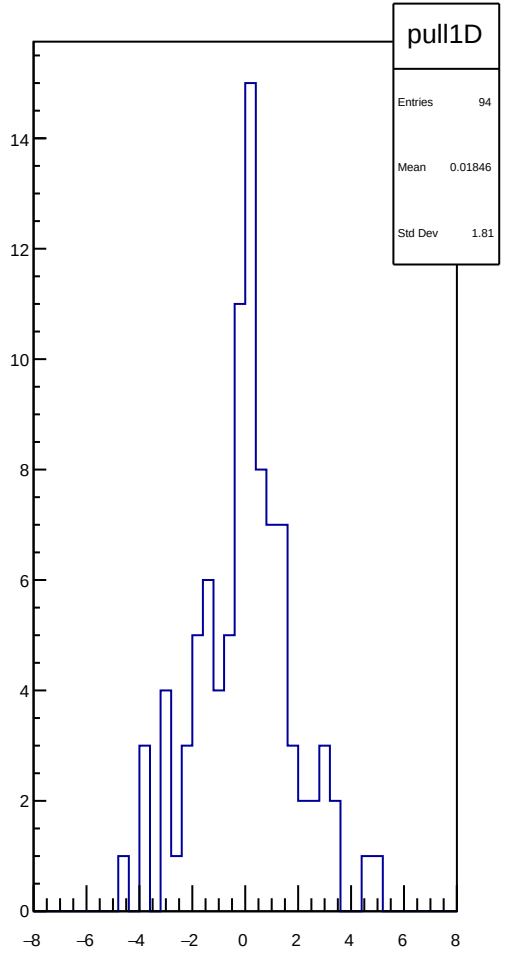

pull1D
Entries 94
Mean 0.01846
Std Dev 1.81

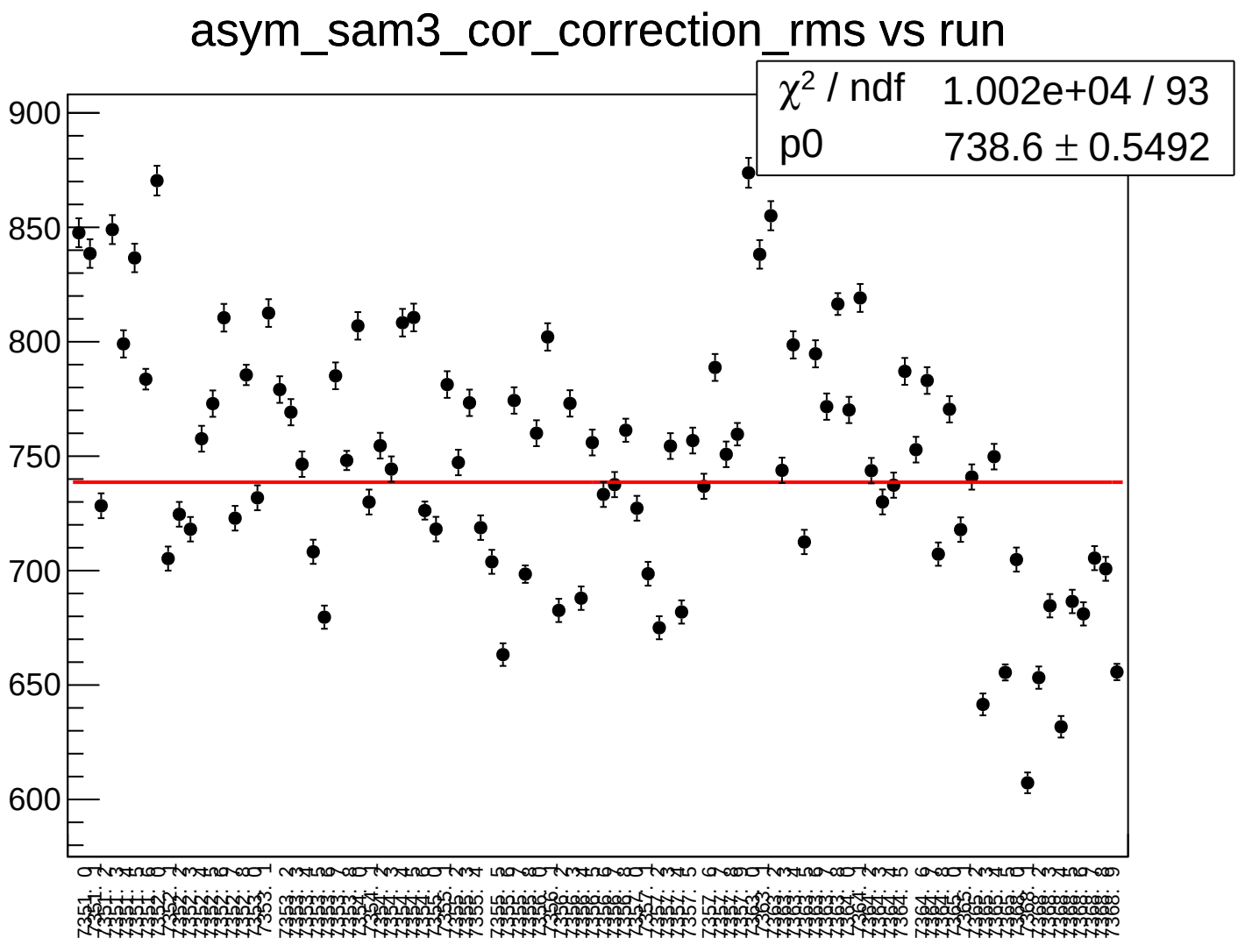

asym_sam3_reg_correction_rms vs run
χ² / ndf 1.002e+04 / 93
p0 738.6 ± 0.5492
900
850
800
750
700
650
600

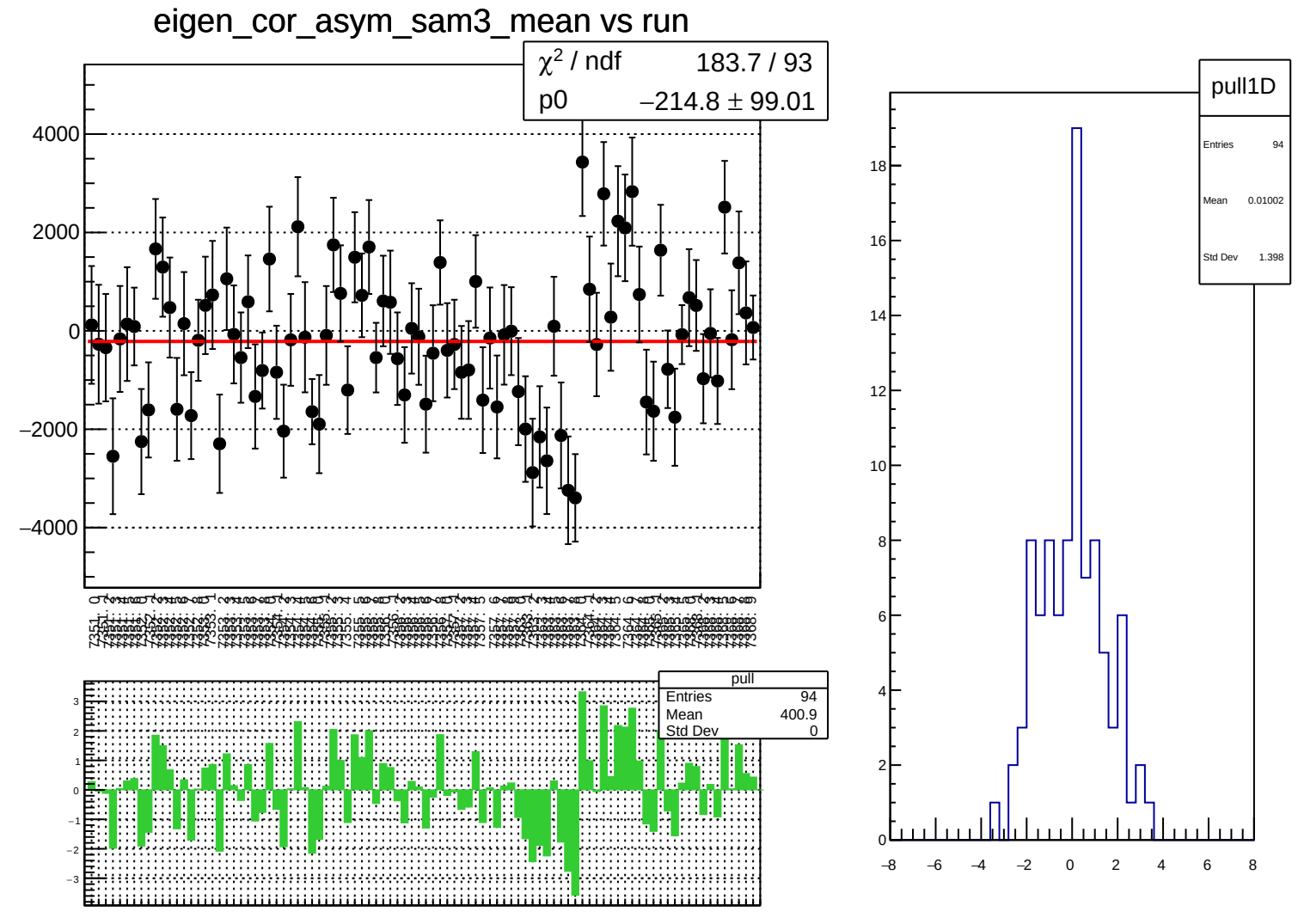

cor_asym_sam3_mean vs run
χ² / ndf 183.7 / 93
p0 −214.8 ± 99.01
4000
2000
0
−2000
−4000
pull
Entries 94
Mean 400.9
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.01002
Std Dev 1.398
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

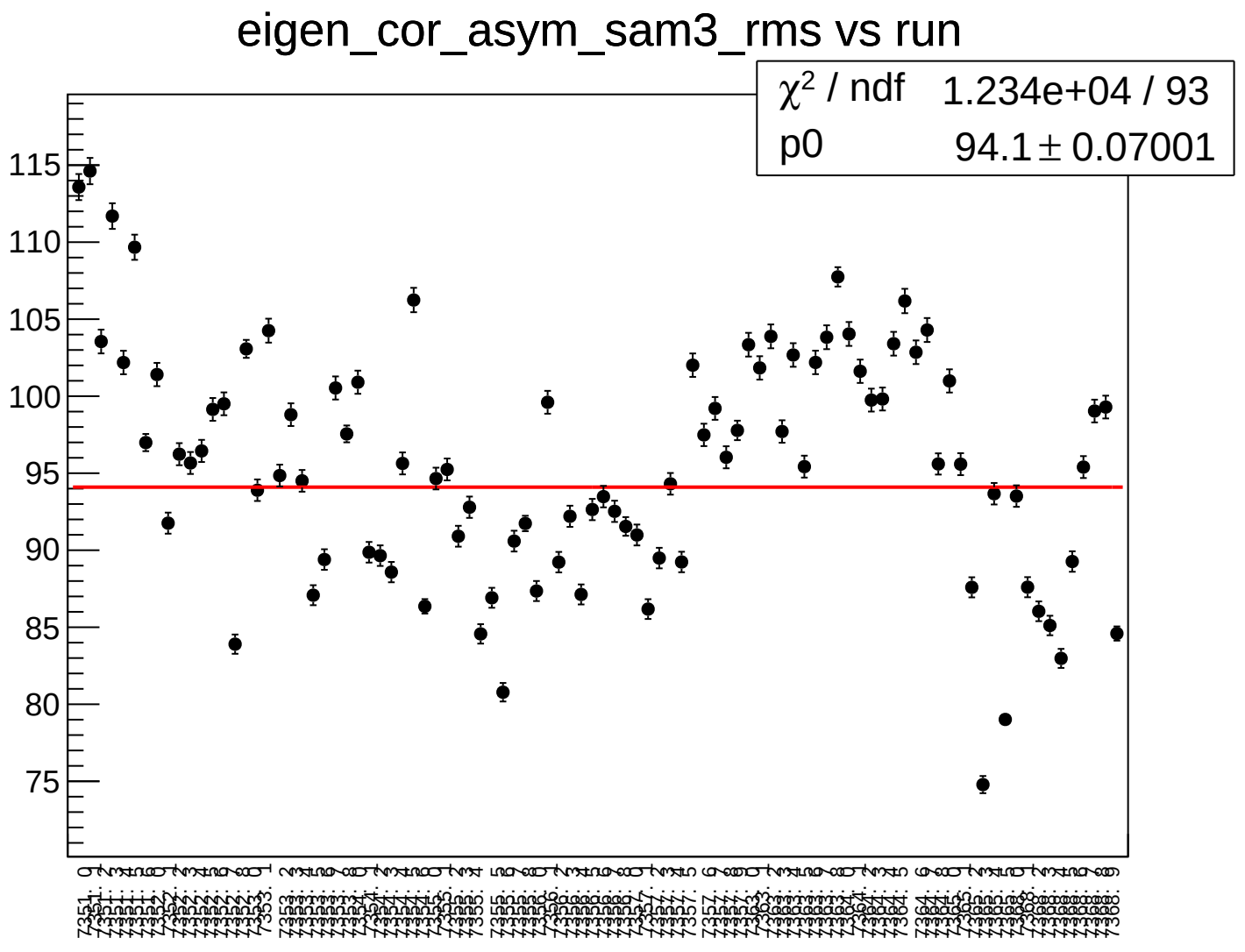

cor_asym_sam3_rms vs run
χ^2 / ndf 1.234e+04 / 93
p0 94.1 ± 0.07001
115
110
105
100
95
90
85
80
75

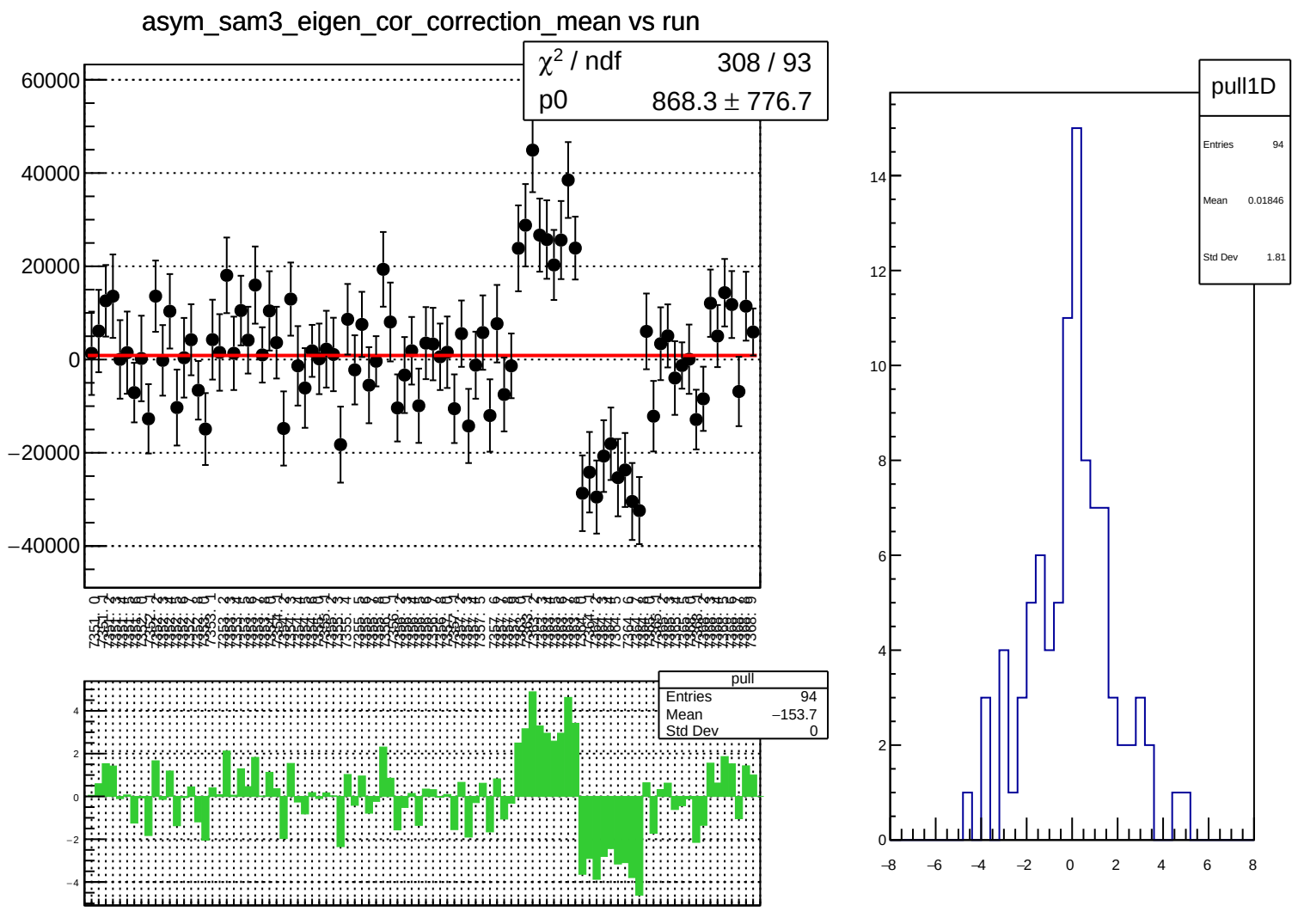

asym_sam3_cor_correction_mean vs run
χ² / ndf 308 / 93
p0 868.3 ± 776.7
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −153.7
Std Dev 0
4
2
0
−2
−4

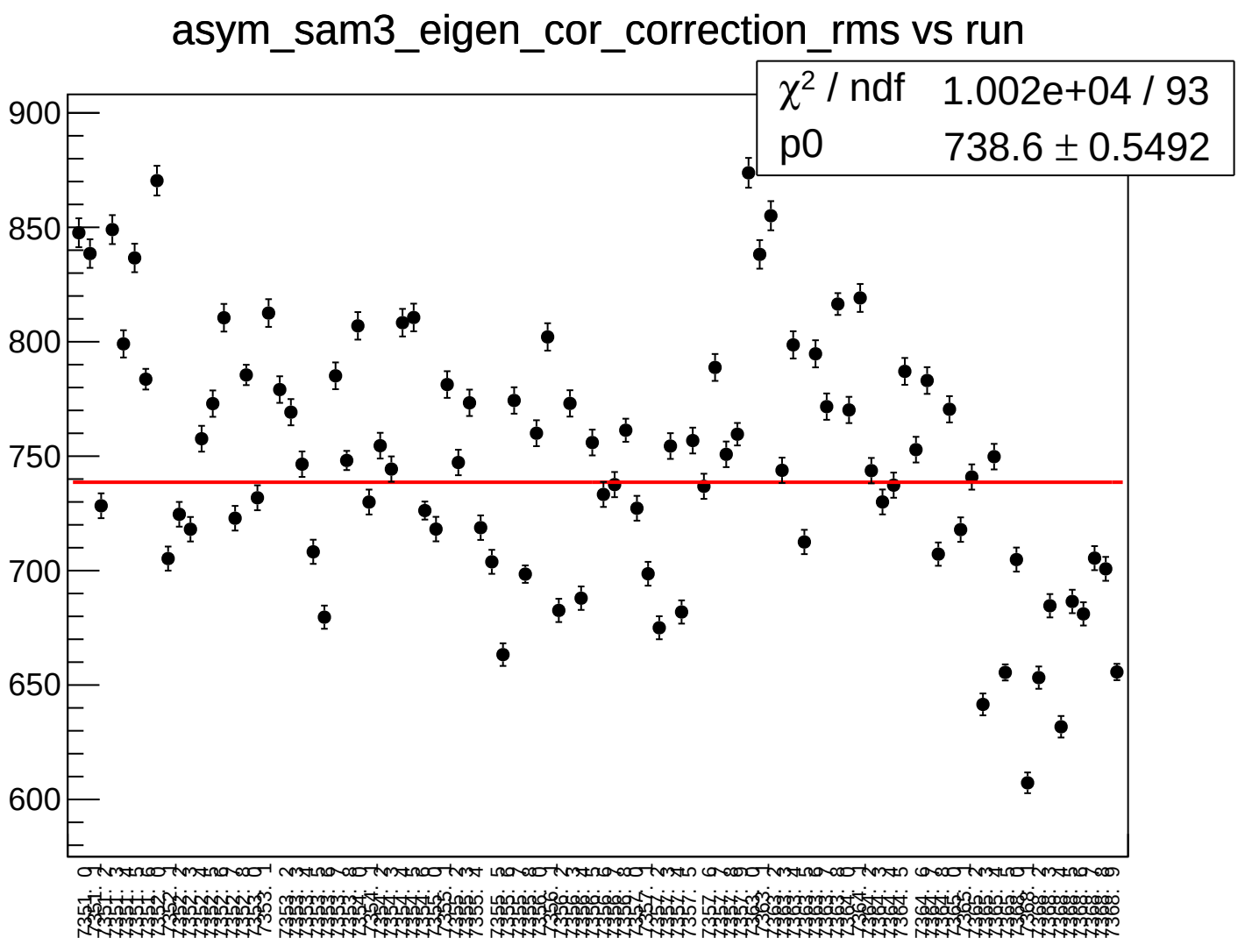

pull1D
Entries 94
Mean 0.01846
Std Dev 1.81
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

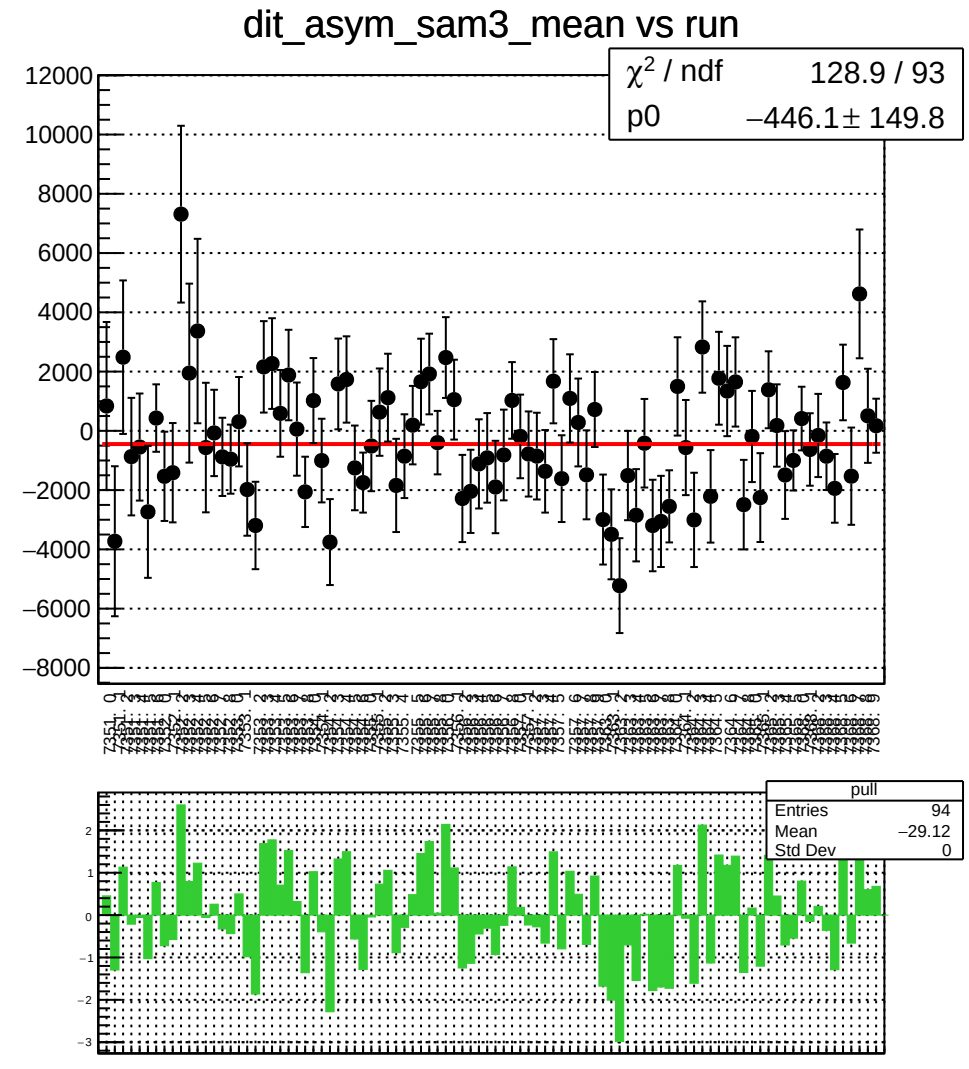

asym_sam3_cor_correction_rms vs run
χ² / ndf 1.002e+04 / 93
p0 738.6 ± 0.5492
900
850
800
750
700
650
600

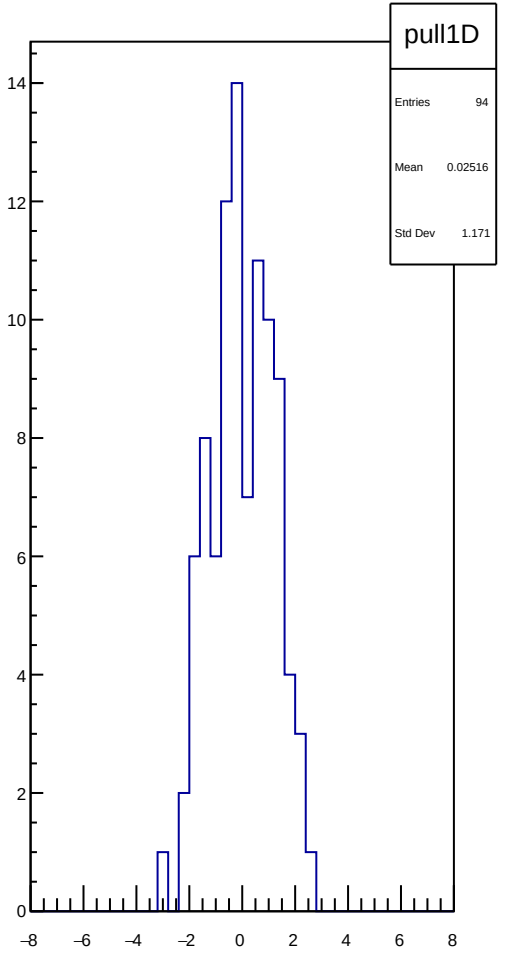

eigen_cor_asym_sam3_mean vs run
χ² / ndf 183.7 / 93
p0 −214.8 ± 99.01
4000
2000
0
−2000
−4000
pull
Entries 94
Mean 400.9
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.01002
Std Dev 1.398
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

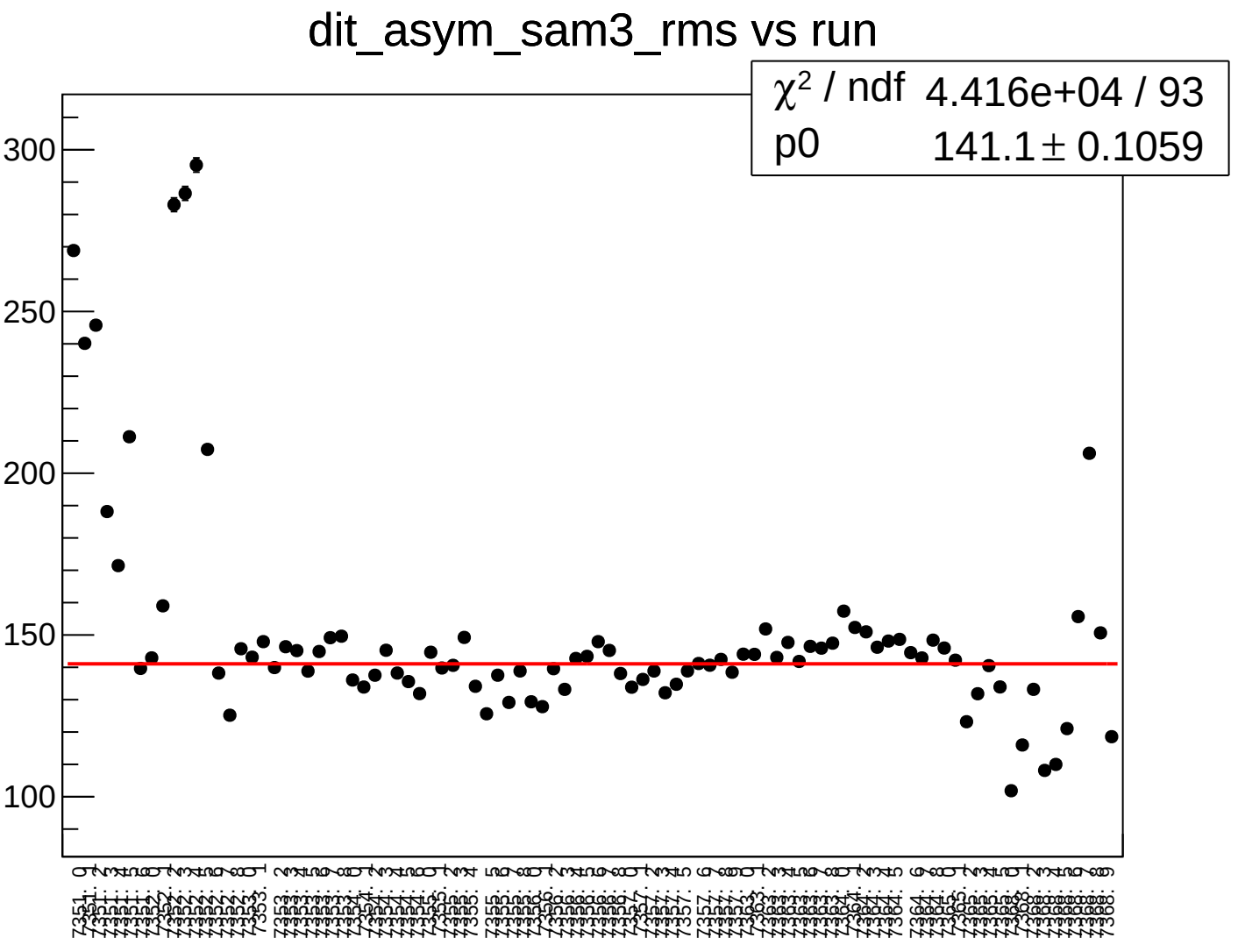

eigen_cor_asym_sam3_rms vs run
χ² / ndf 1.234e+04 / 93
p0 94.1 ± 0.07001
115
110
105
100
95
90
85
80
75

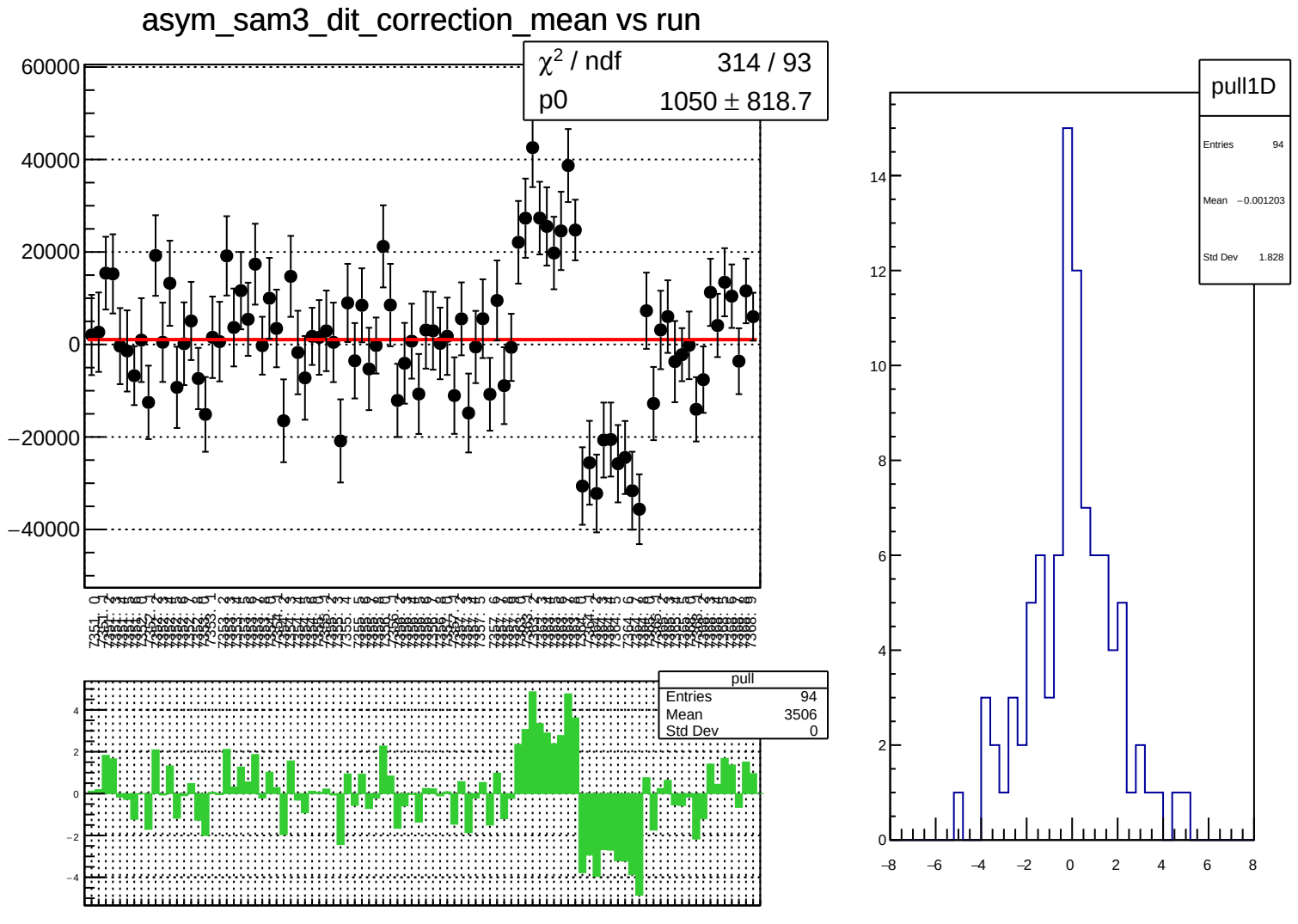

asym_sam3_eigen_cor_correction_mean vs run
χ² / ndf 308 / 93
p0 868.3 ± 776.7
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −153.7
Std Dev 0
4
2
0
−2
−4
pull1D
Entries 94
Mean 0.01846
Std Dev 1.81
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

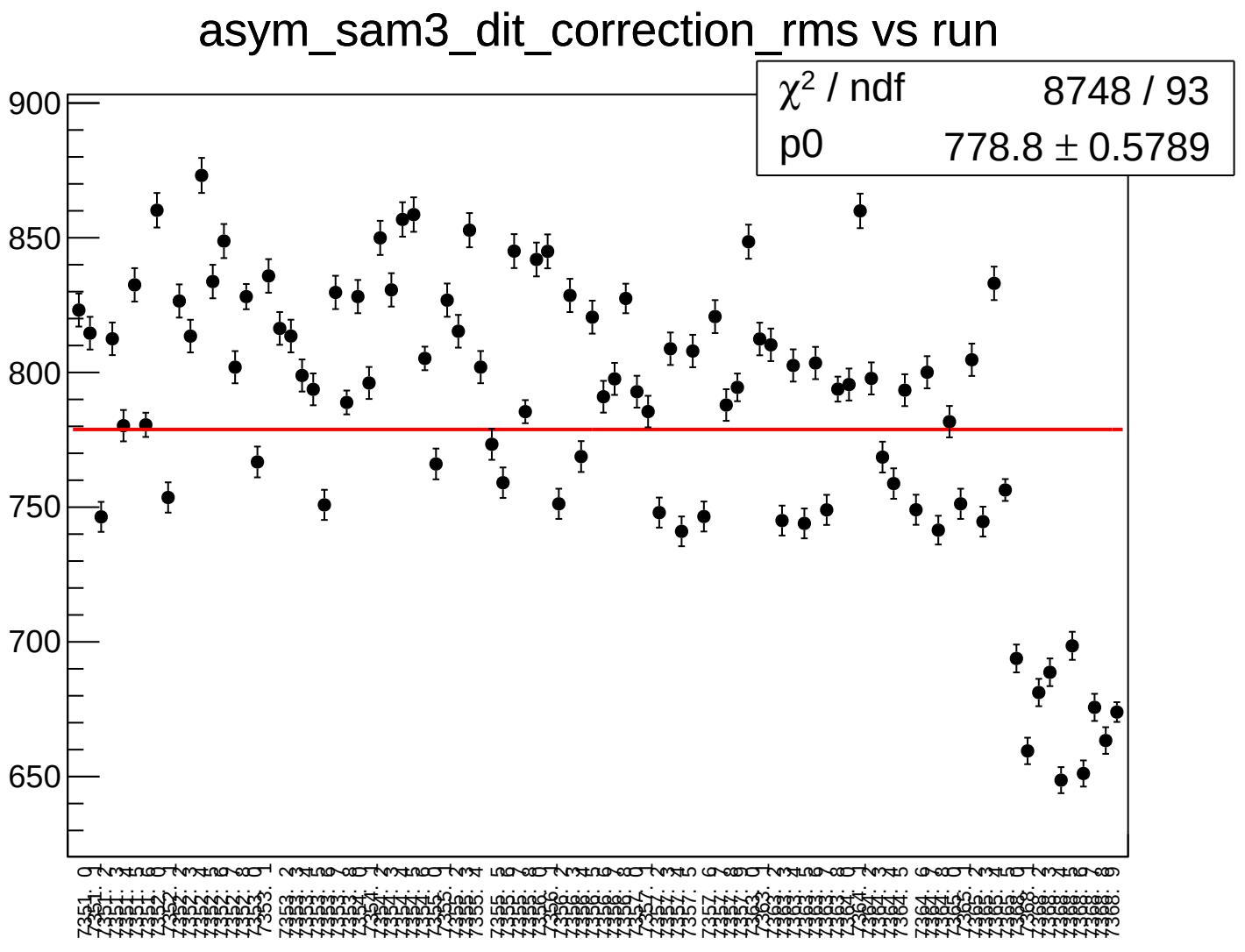

asym_sam3_eigen_cor_correction_rms vs run
χ^2 / ndf 1.002e+04 / 93
p0 738.6 ± 0.5492
900
850
800
750
700
650
600

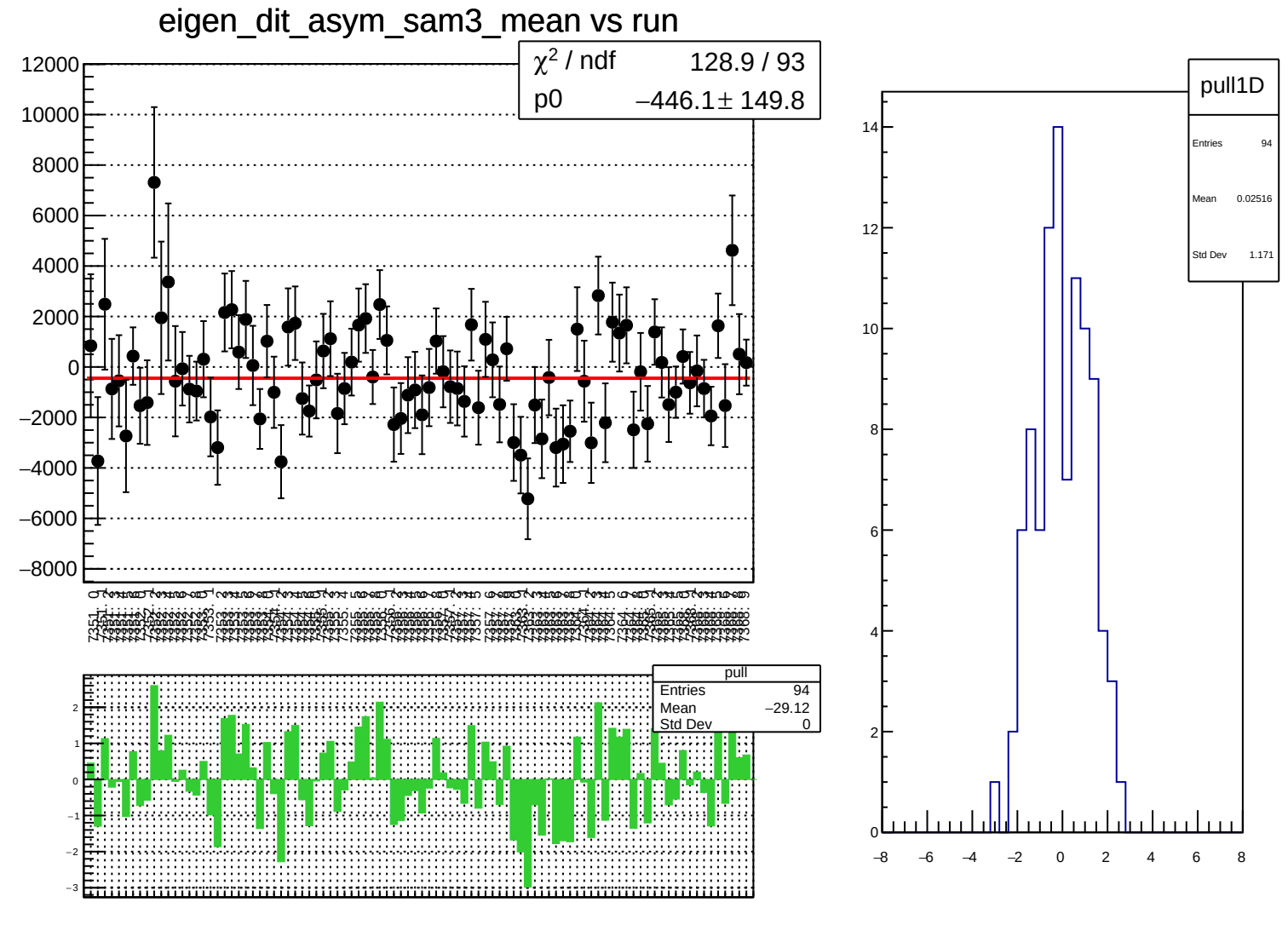

dit_asym_sam3_mean vs run
χ² / ndf 128.9 / 93
p0 −446.1± 149.8
pull
Entries 94
Mean −29.12
Std Dev 0

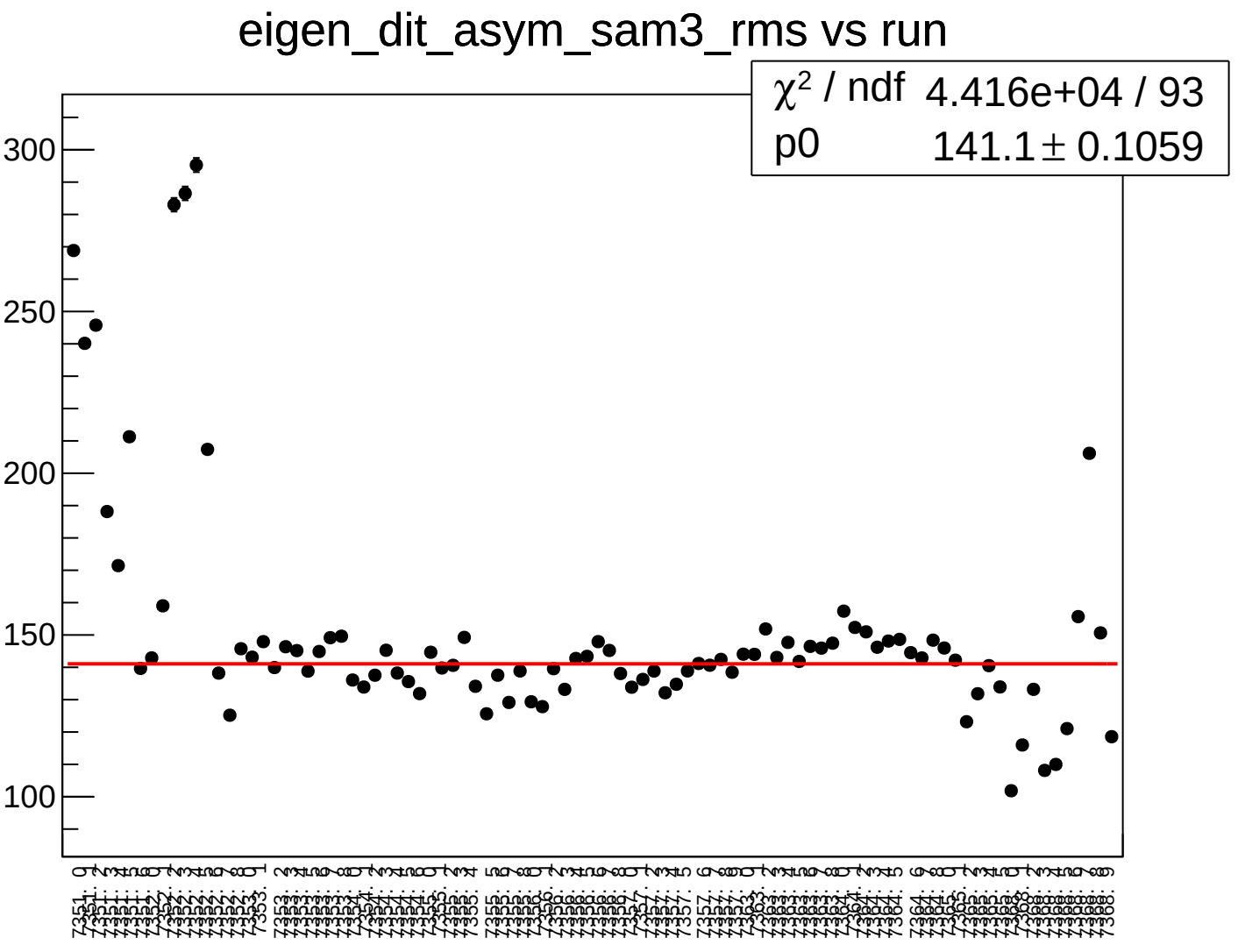

pull1D
Entries 94
Mean 0.02516
Std Dev 1.171

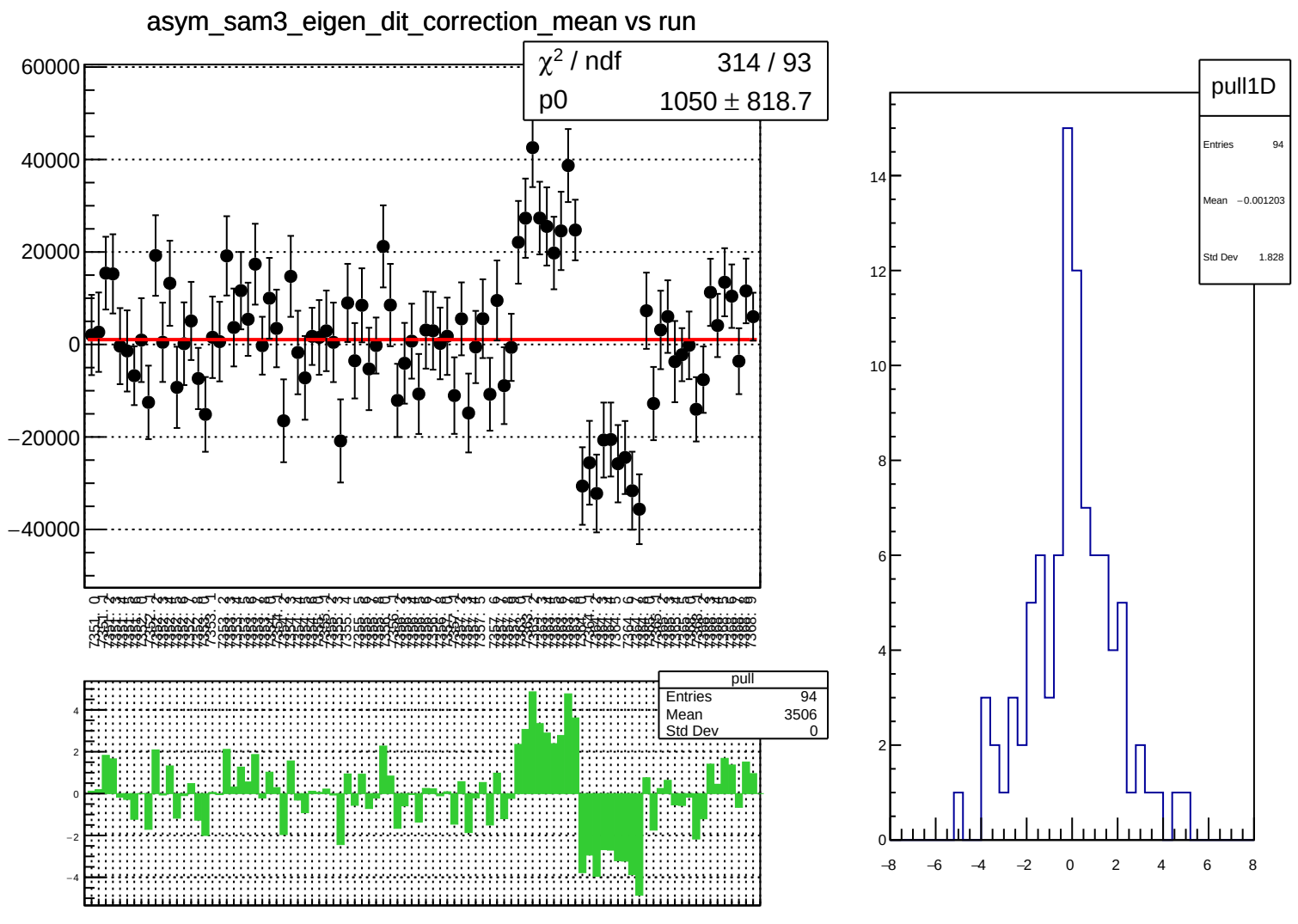

dit_asym_sam3_rms vs run
χ² / ndf 4.416e+04 / 93
p0 141.1 ± 0.1059
300
250
200
150
100

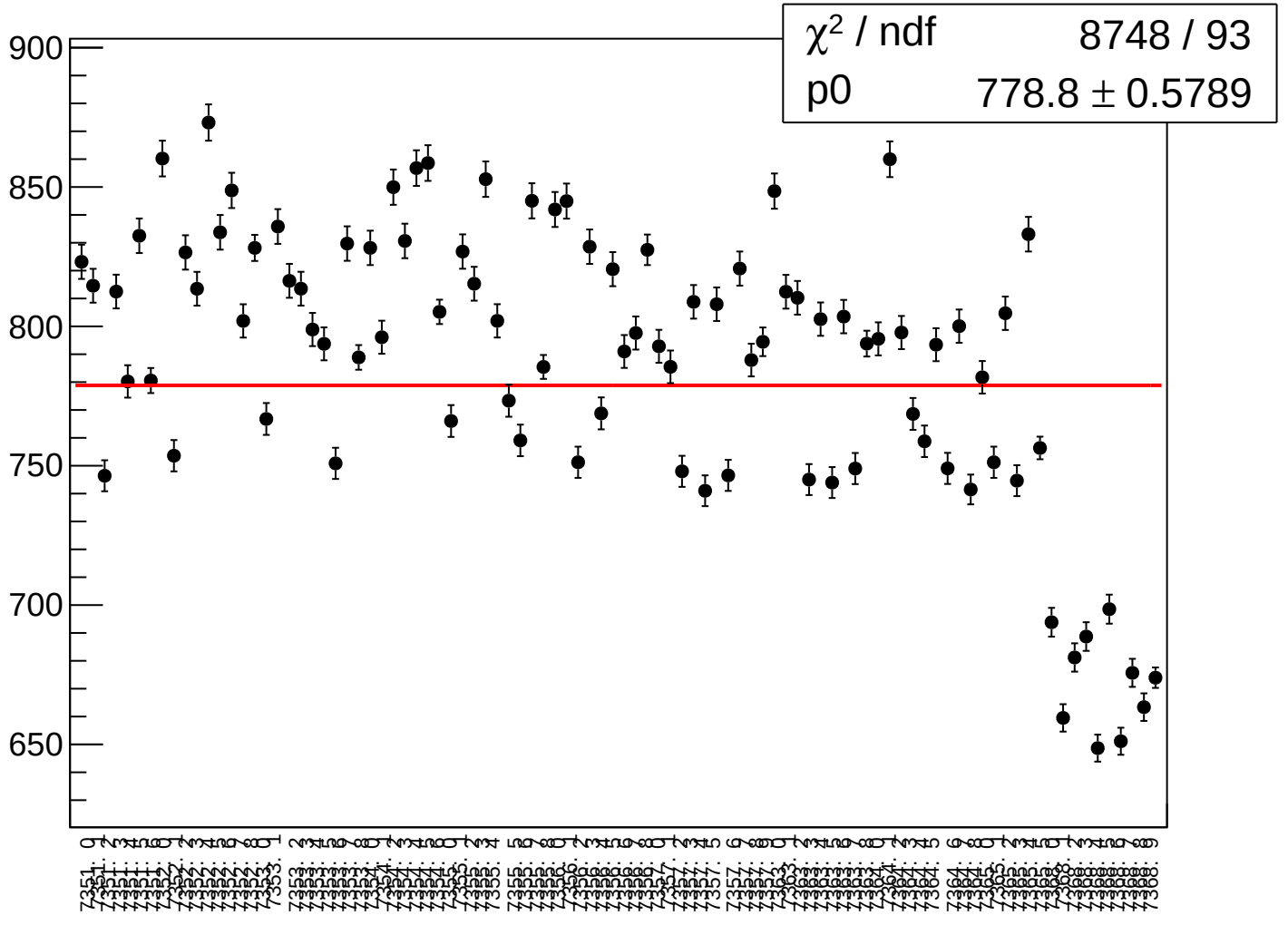

asym_sam3_dit_correction_mean vs run
χ² / ndf 314 / 93
p0 1050 ± 818.7
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 3506
Std Dev 0
4
2
0
−2
−4
pull1D
Entries 94
Mean −0.001203
Std Dev 1.828
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

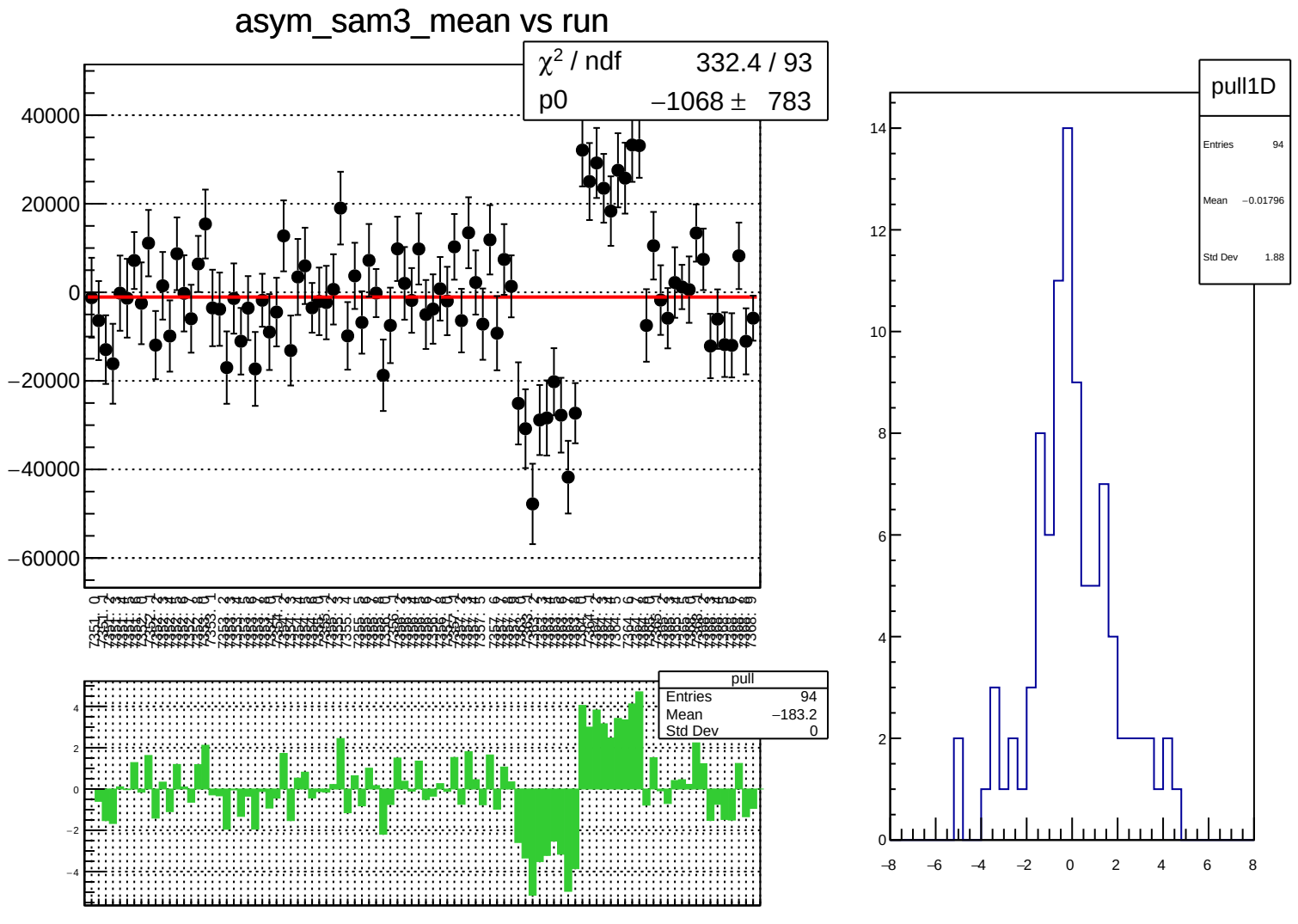

asym_sam3_dit_correction_rms vs run
χ^2 / ndf 8748 / 93
p0 778.8 ± 0.5789
900
850
800
750
700
650

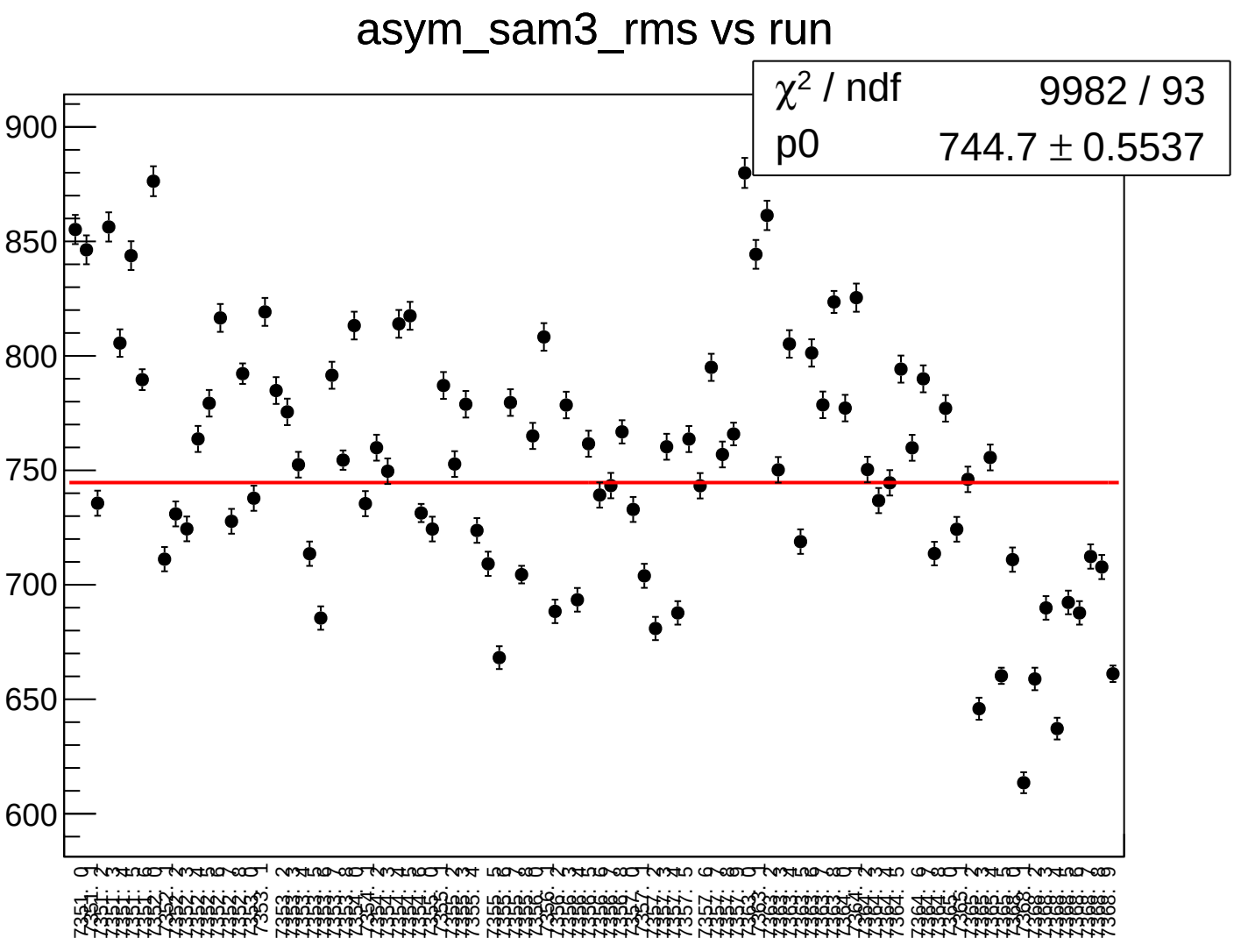

eigen_dit_asym_sam3_mean vs run
χ² / ndf 128.9 / 93
p0 −446.1 ± 149.8
pull
Entries 94
Mean −29.12
Std Dev 0
pull1D
Entries 94
Mean 0.02516
Std Dev 1.171

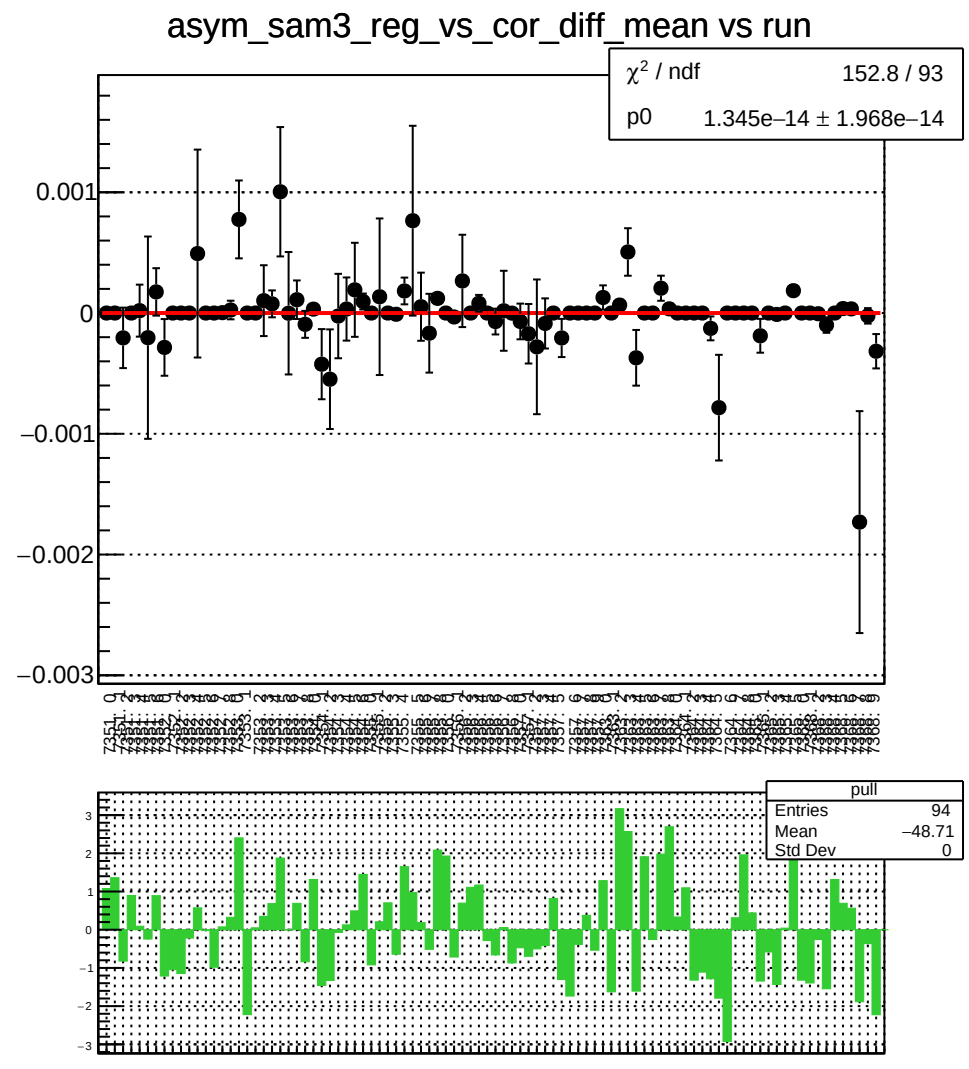

eigen_dit_asym_sam3_rms vs run
χ² / ndf 4.416e+04 / 93
p0 141.1 ± 0.1059
300
250
200
150
100

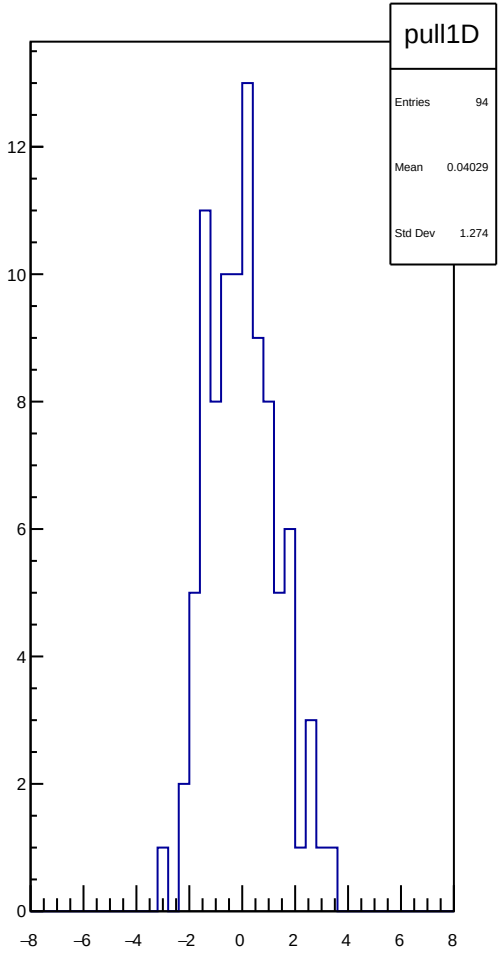

asym_sam3_eigen_dit_correction_mean vs run
χ² / ndf 314 / 93
p0 1050 ± 818.7
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 3506
Std Dev 0
4
2
0
−2
−4
pull1D
Entries 94
Mean −0.001203
Std Dev 1.828
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

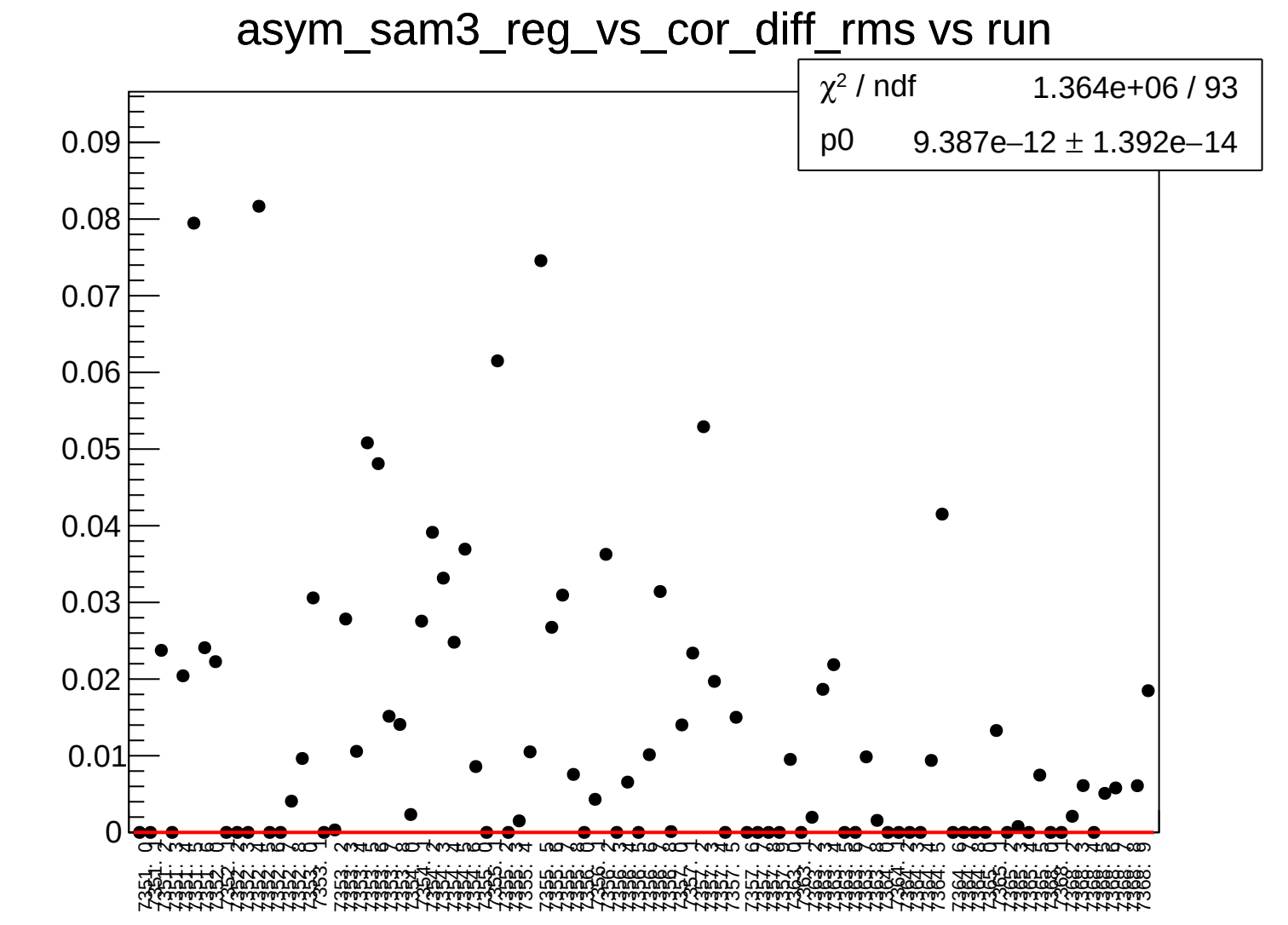

asym_sam3_eigen_dit_correction_rms vs run
χ^2 / ndf 8748 / 93
p0 778.8 ± 0.5789
900
850
800
750
700
650

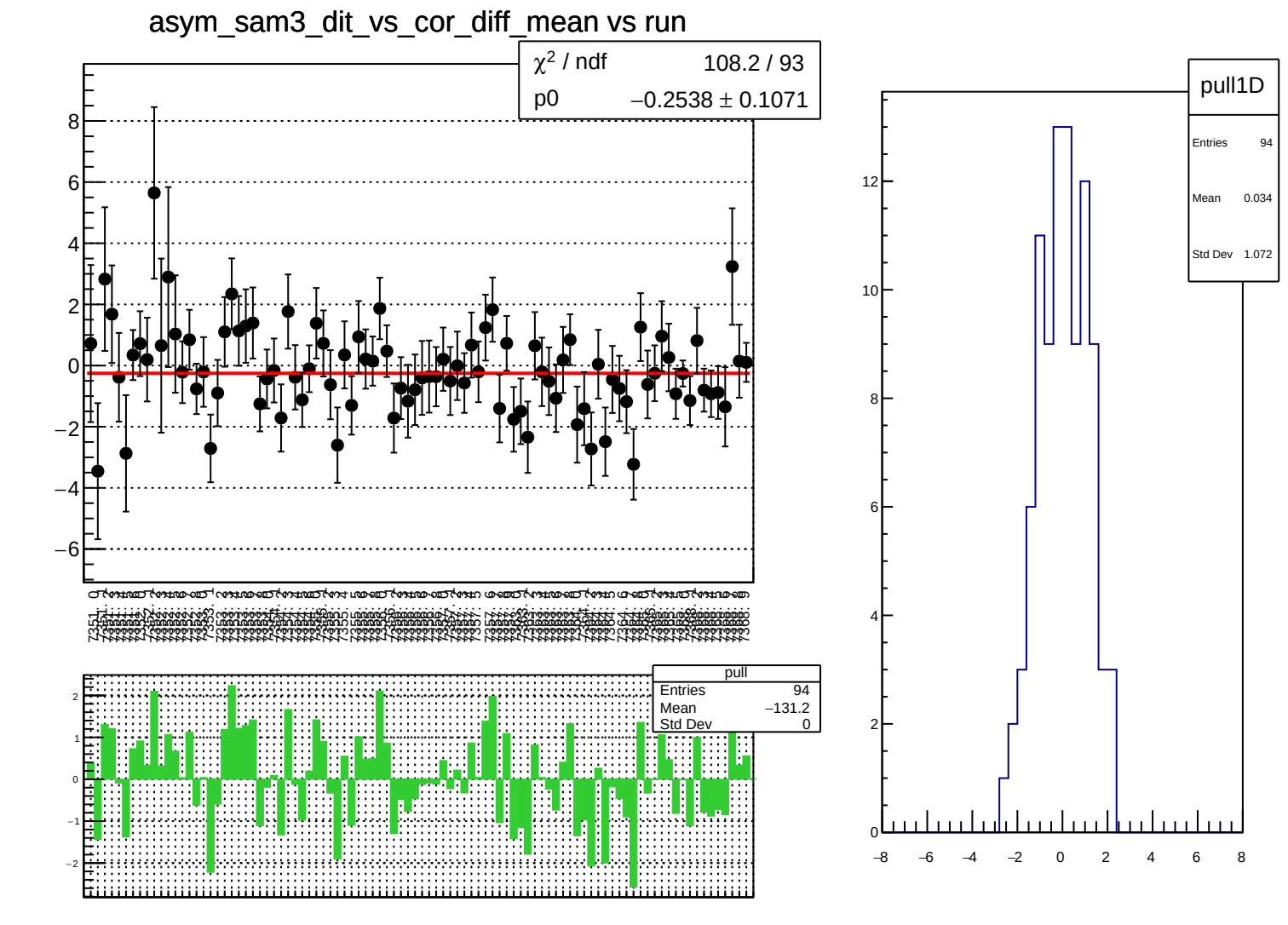

asym_sam3_mean vs run
χ² / ndf 332.4 / 93
p0 −1068 ± 783
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −183.2
Std Dev 0
4
2
0
−2
−4
pull1D
Entries 94
Mean −0.01796
Std Dev 1.88
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

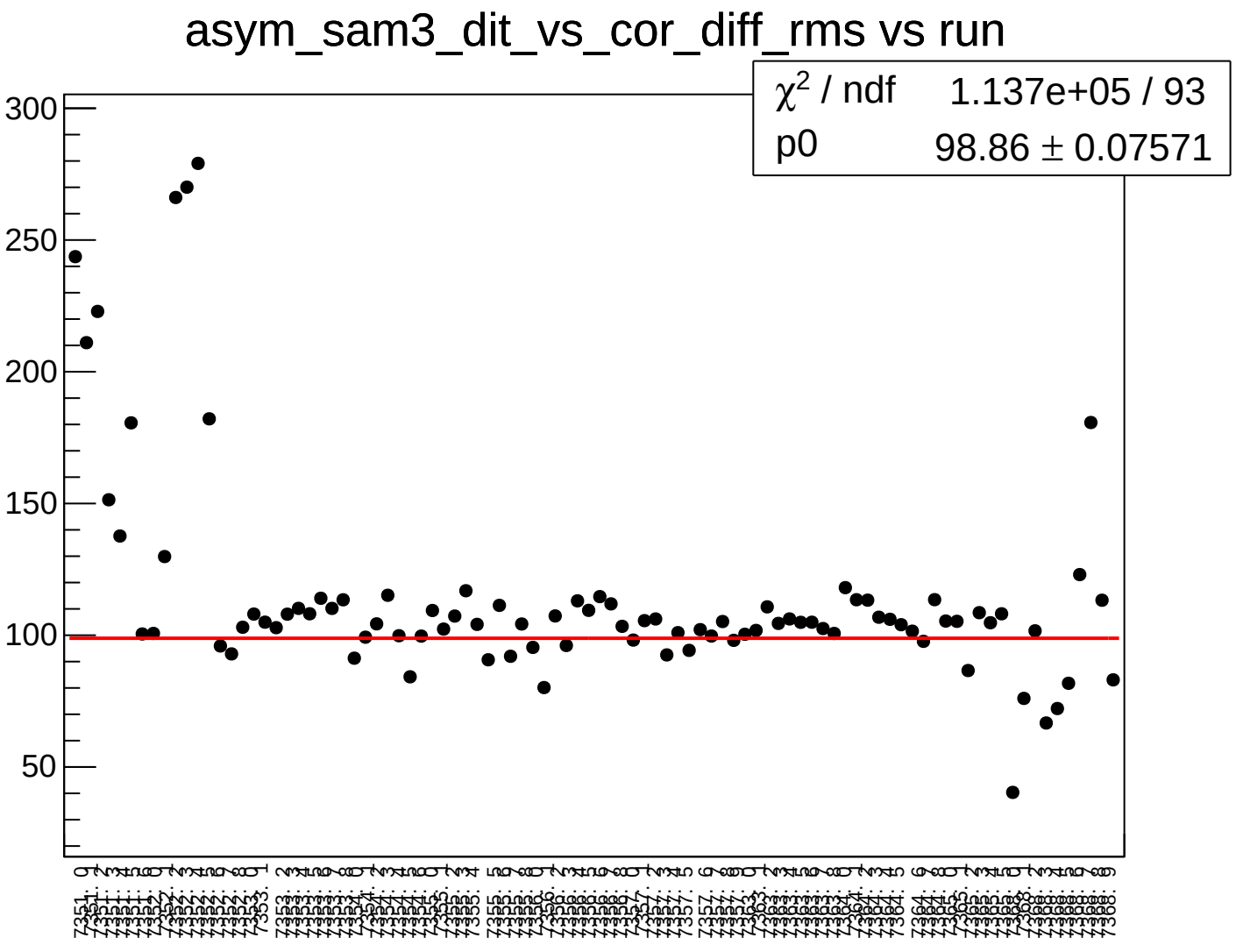

asym_sam3_rms vs run
χ^2 / ndf 9982 / 93
p0 744.7 ± 0.5537
900
850
800
750
700
650
600

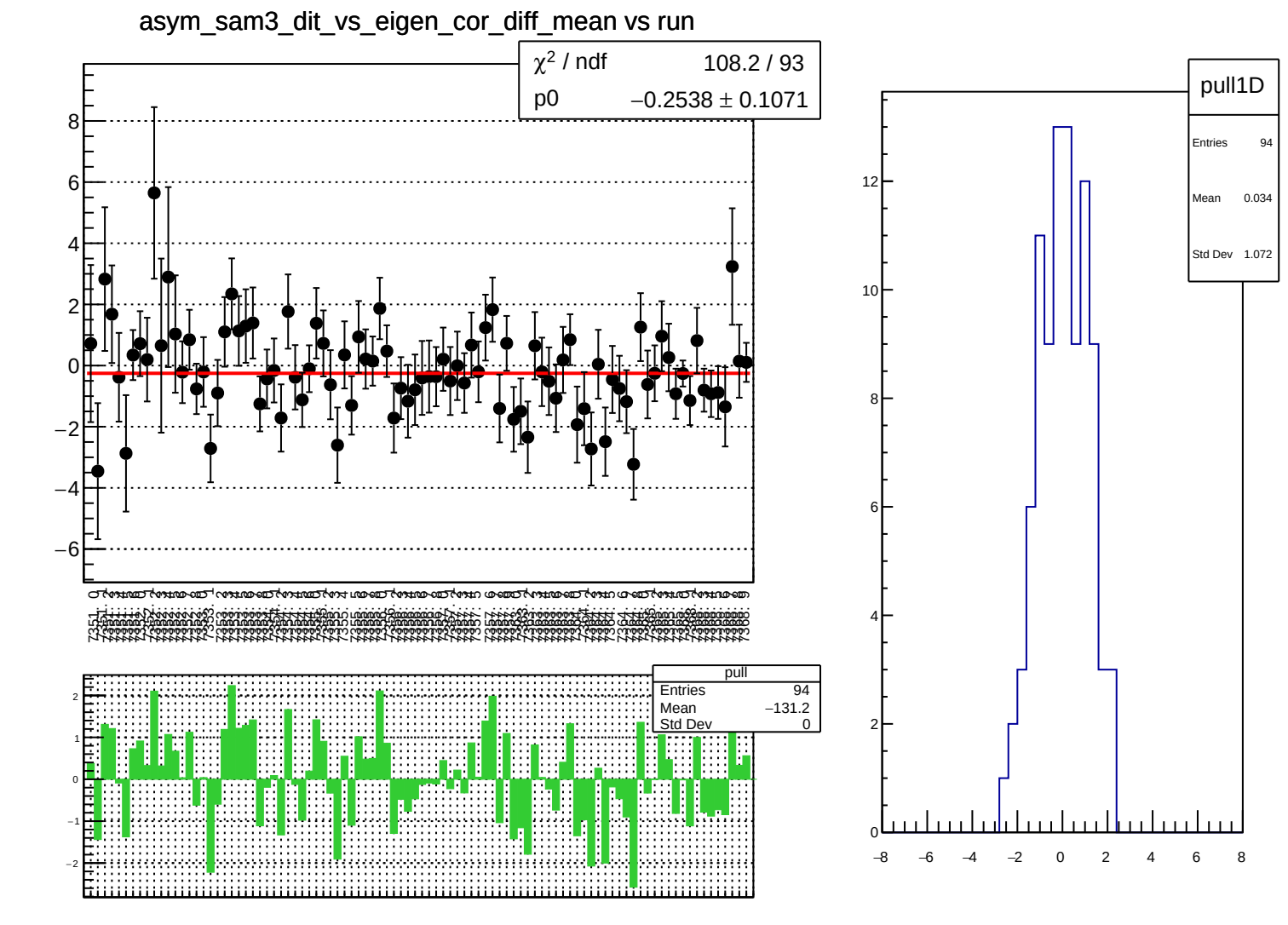

asym_sam3_reg_vs_cor_diff_mean vs run
χ² / ndf 152.8 / 93
p0 1.345e−14 ± 1.968e−14
0.001
0
−0.001
−0.002
−0.003
pull
Entries 94
Mean −48.71
Std Dev 0
3
2
1
0
−1
−2
−3

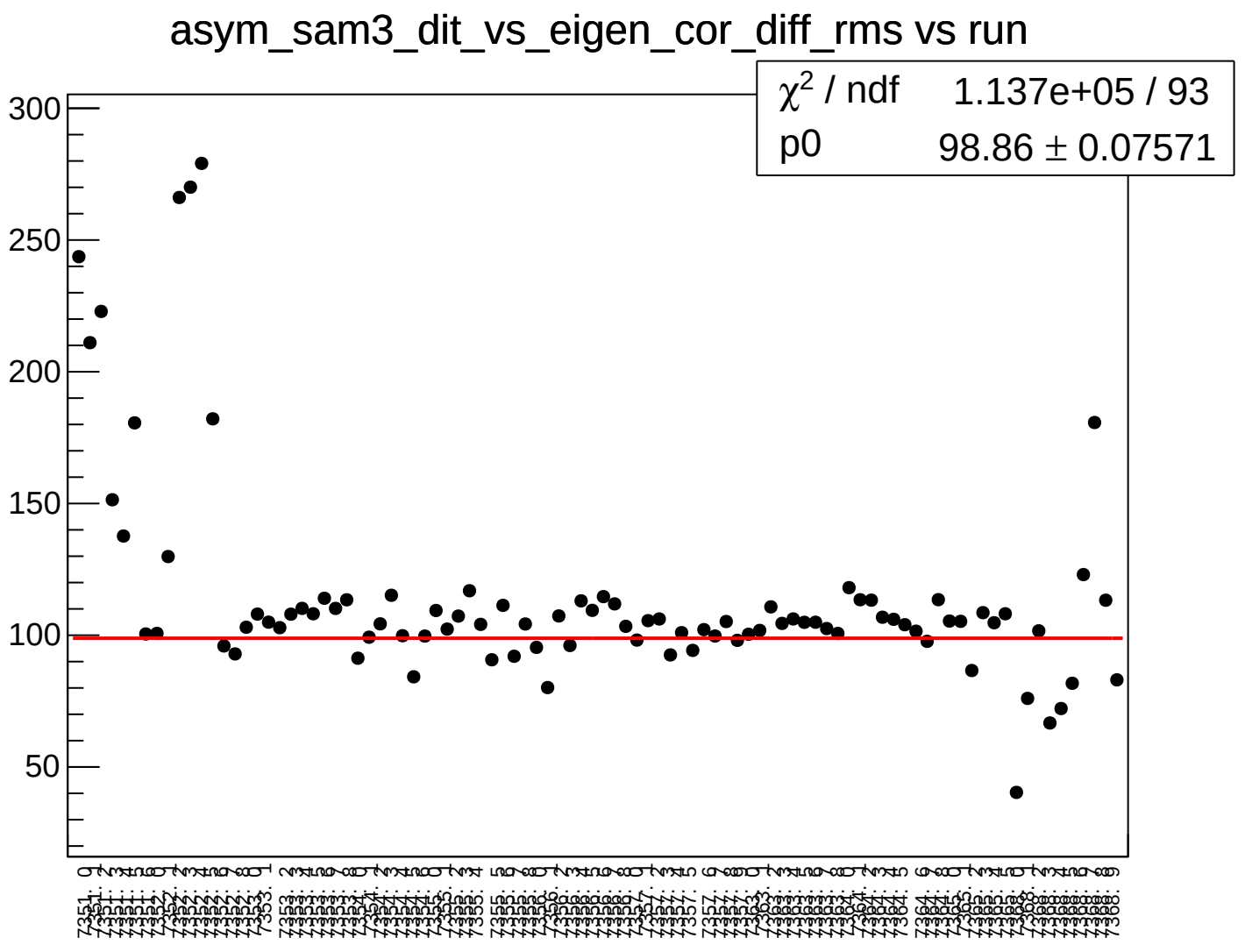

pull1D
Entries 94
Mean 0.04029
Std Dev 1.274
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

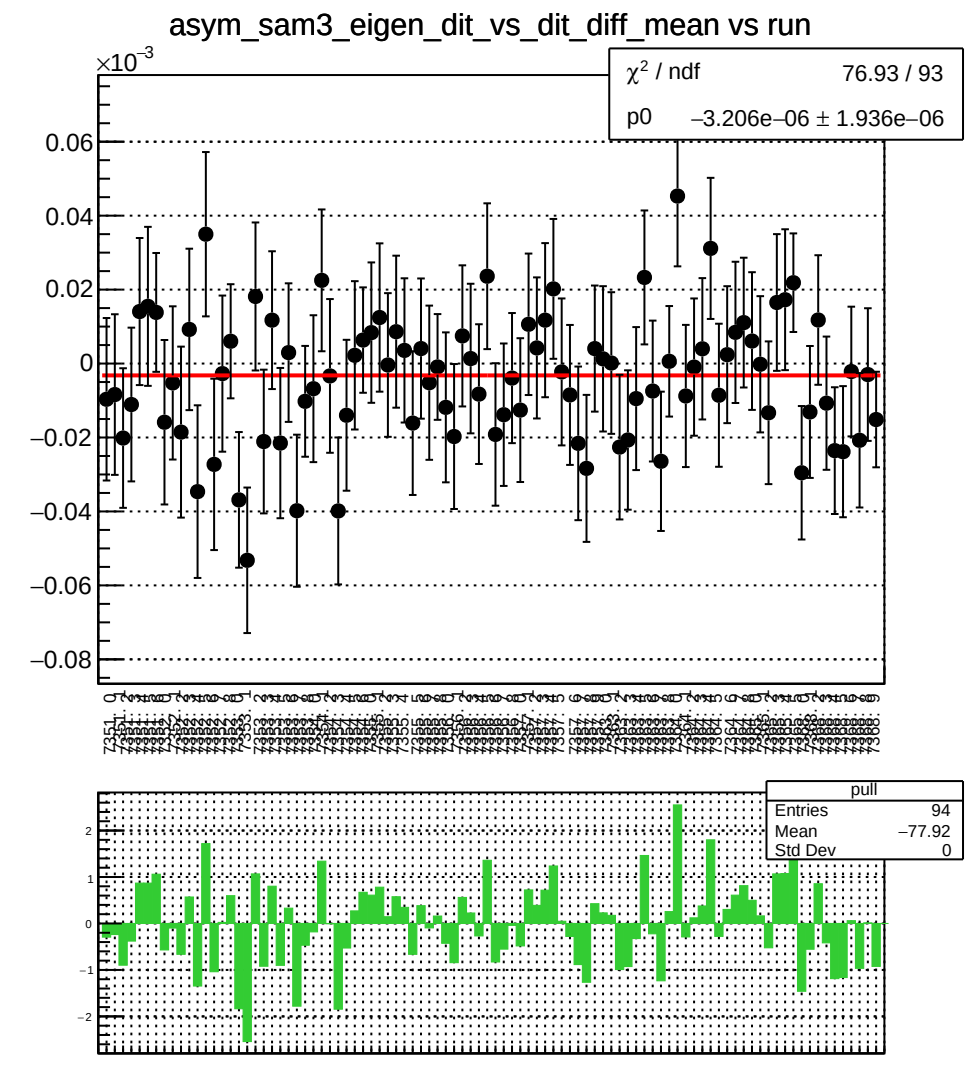

asym_sam3_reg_vs_cor_diff_rms vs run
χ² / ndf 1.364e+06 / 93
p0 9.387e−12 ± 1.392e−14
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

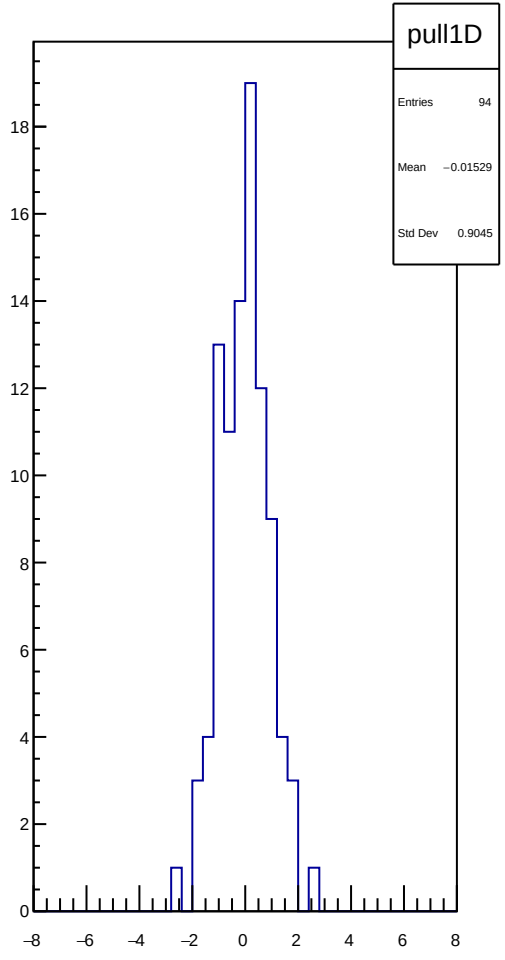

asym_sam3_dit_vs_cor_diff_mean vs run
χ² / ndf 108.2 / 93
p0 −0.2538 ± 0.1071
pull
Entries 94
Mean −131.2
Std Dev 0
pull1D
Entries 94
Mean 0.034
Std Dev 1.072

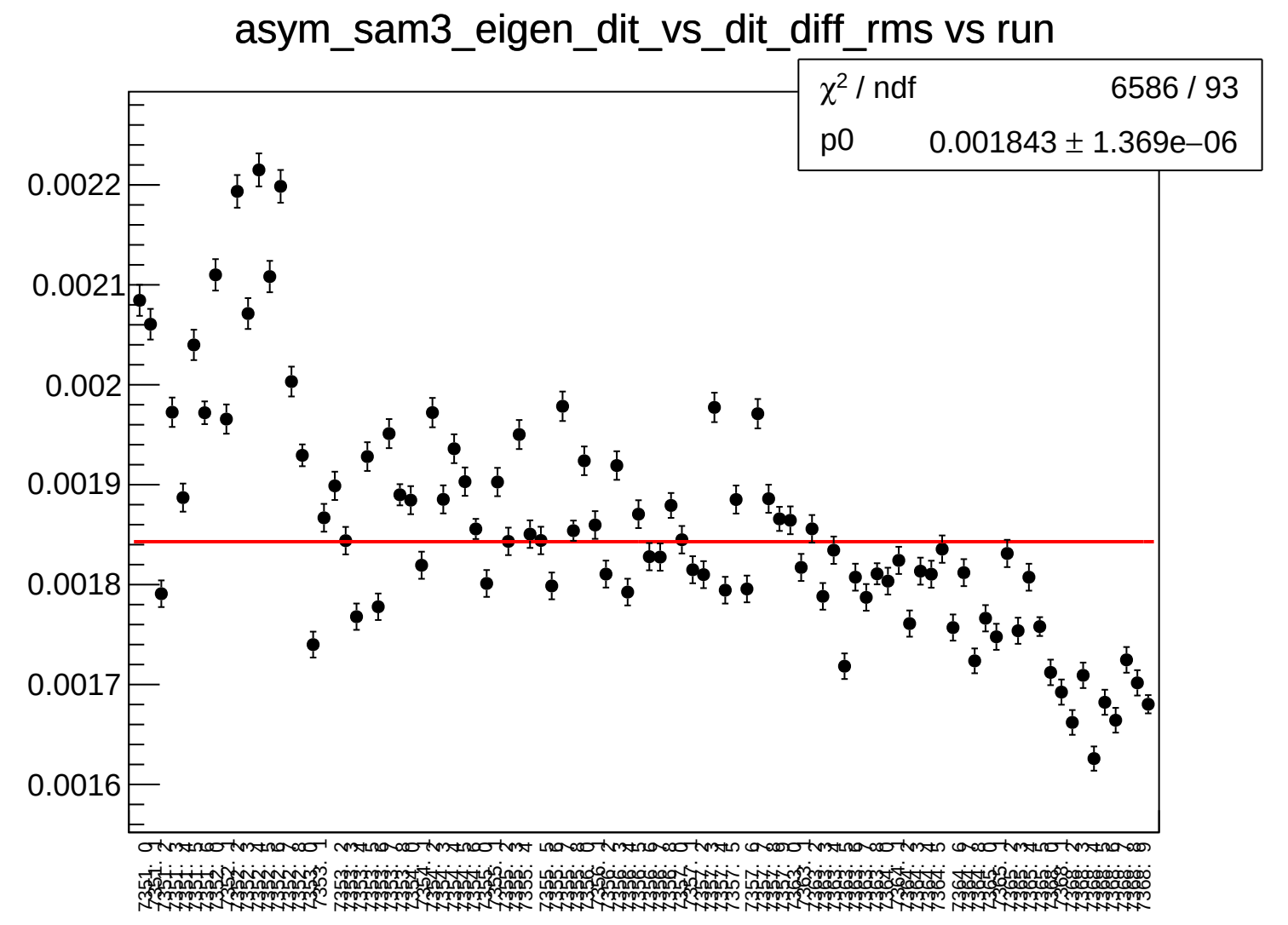

asym_sam3_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.137e+05 / 93
p0 98.86 ± 0.07571
300
250
200
150
100
50

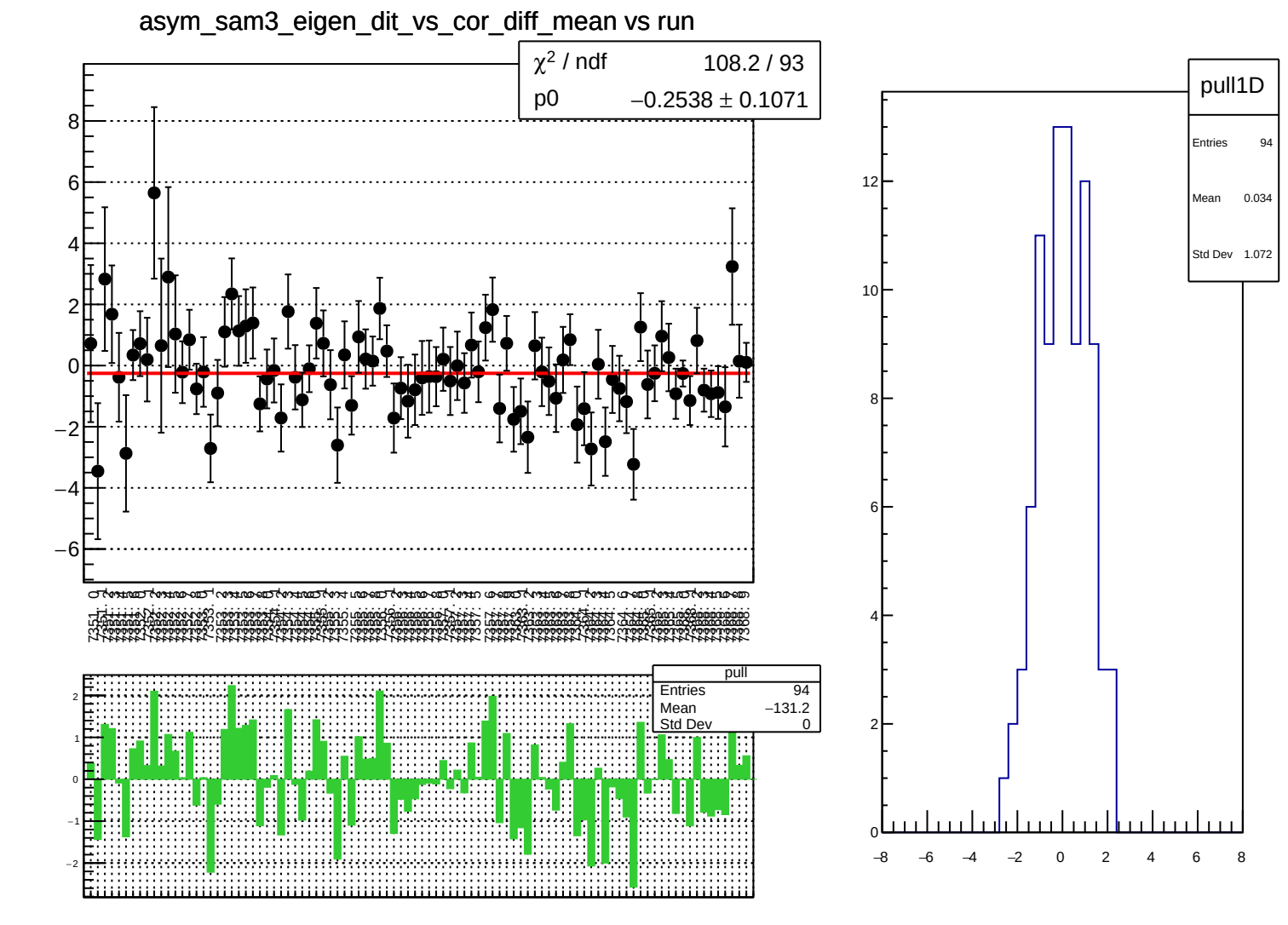

asym_sam3_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 108.2 / 93
p0 −0.2538 ± 0.1071
pull
Entries 94
Mean −131.2
Std Dev 0
pull1D
Entries 94
Mean 0.034
Std Dev 1.072

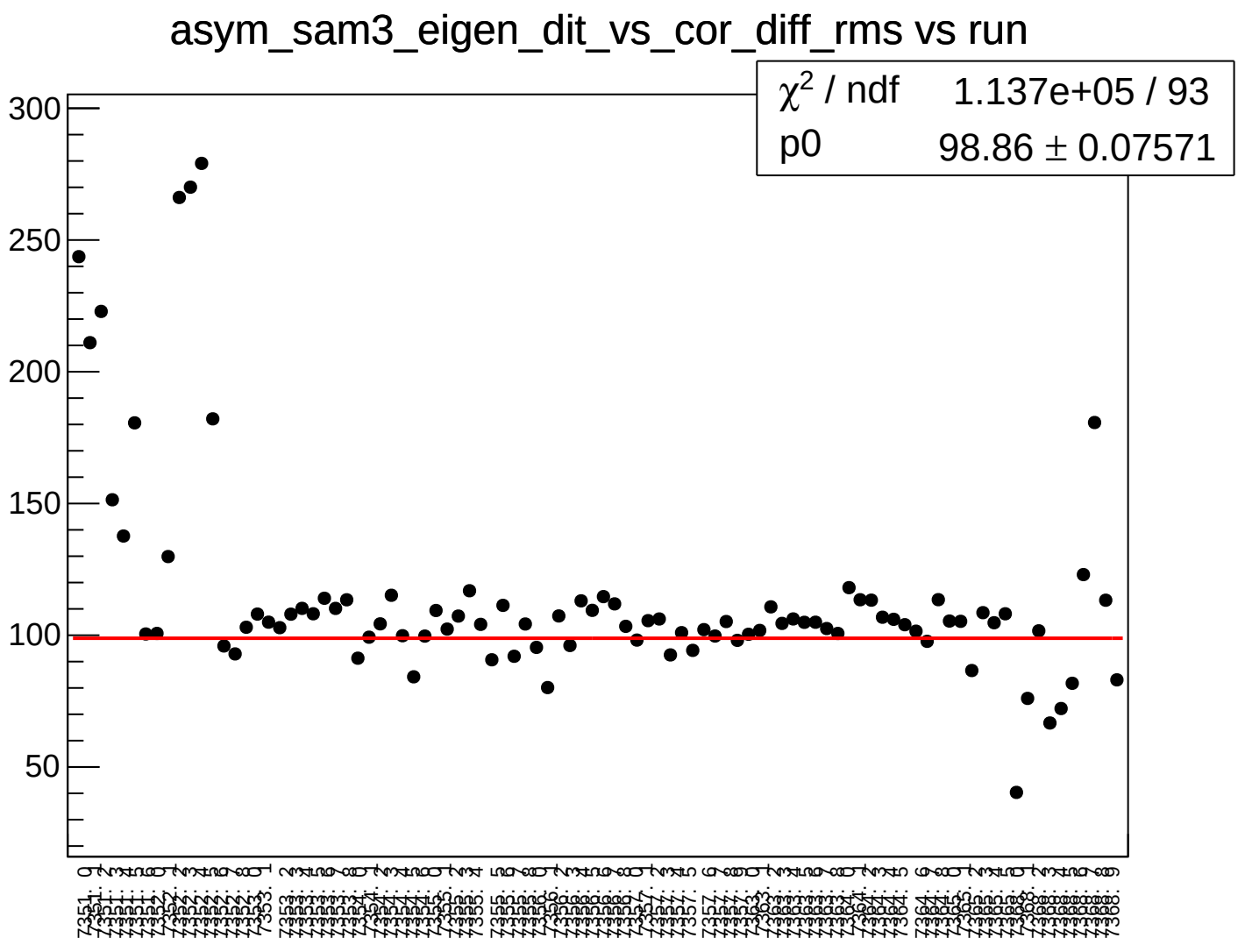

asym_sam3_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.137e+05 / 93
p0 98.86 ± 0.07571
300
250
200
150
100
50

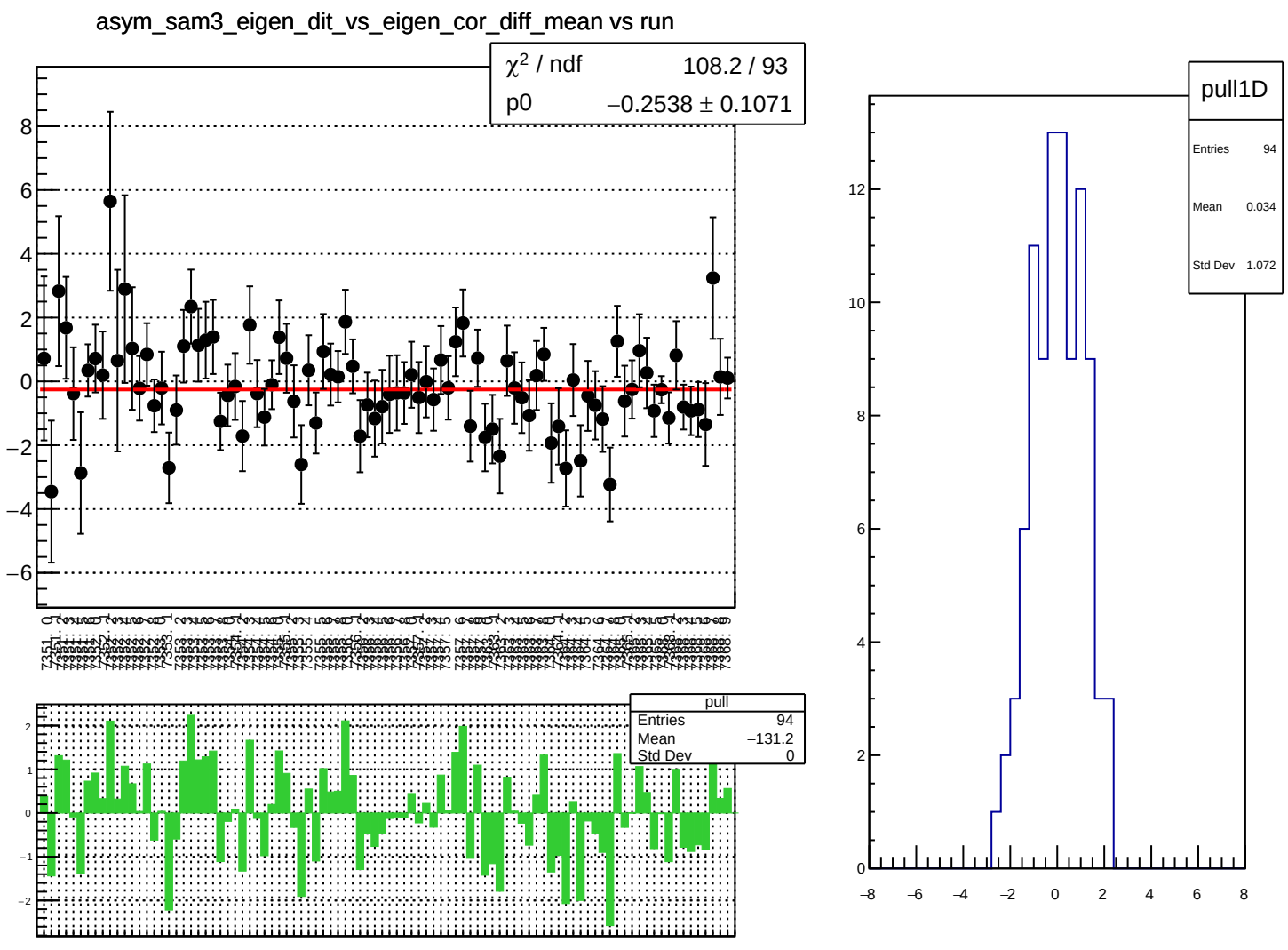

asym_sam3_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 76.93 / 93
p0 −3.206e−06 ± 1.936e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 94
Mean −77.92
Std Dev 0
2
1
0
−1
−2

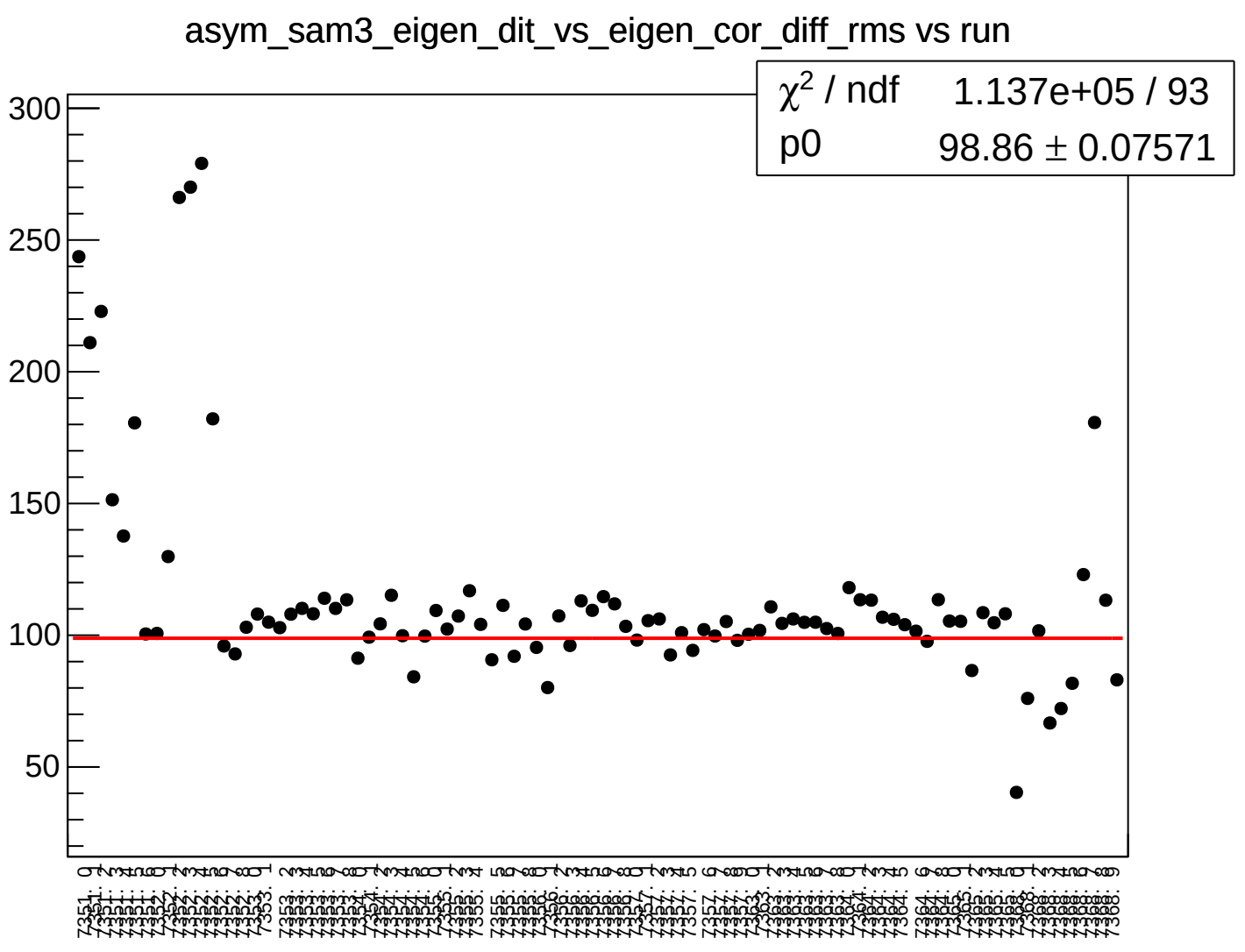

pull1D
Entries 94
Mean −0.01529
Std Dev 0.9045
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

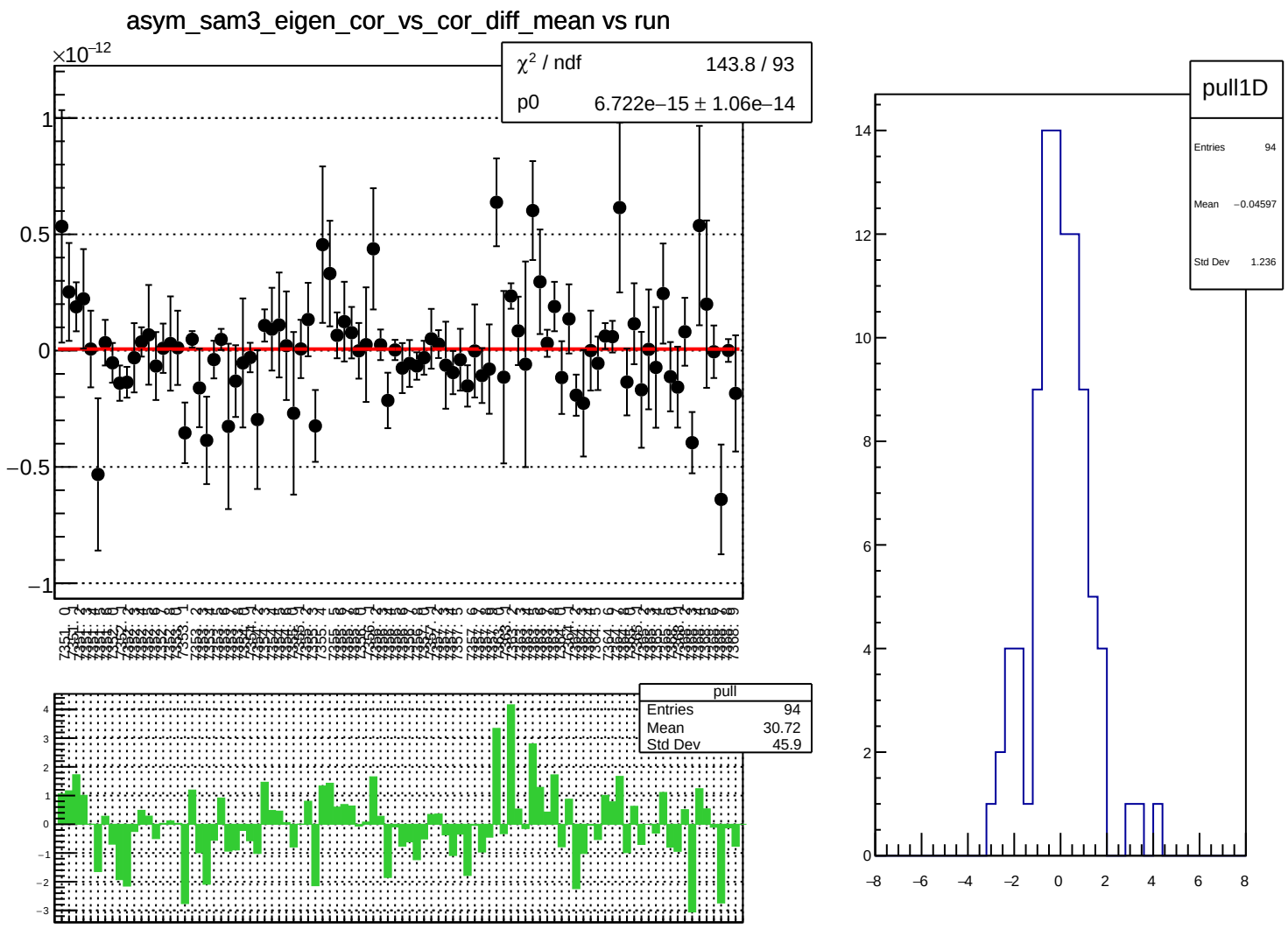

asym_sam3_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6586 / 93
p0 0.001843 ± 1.369e−06
0.0022
0.0021
0.002
0.0019
0.0018
0.0017
0.0016

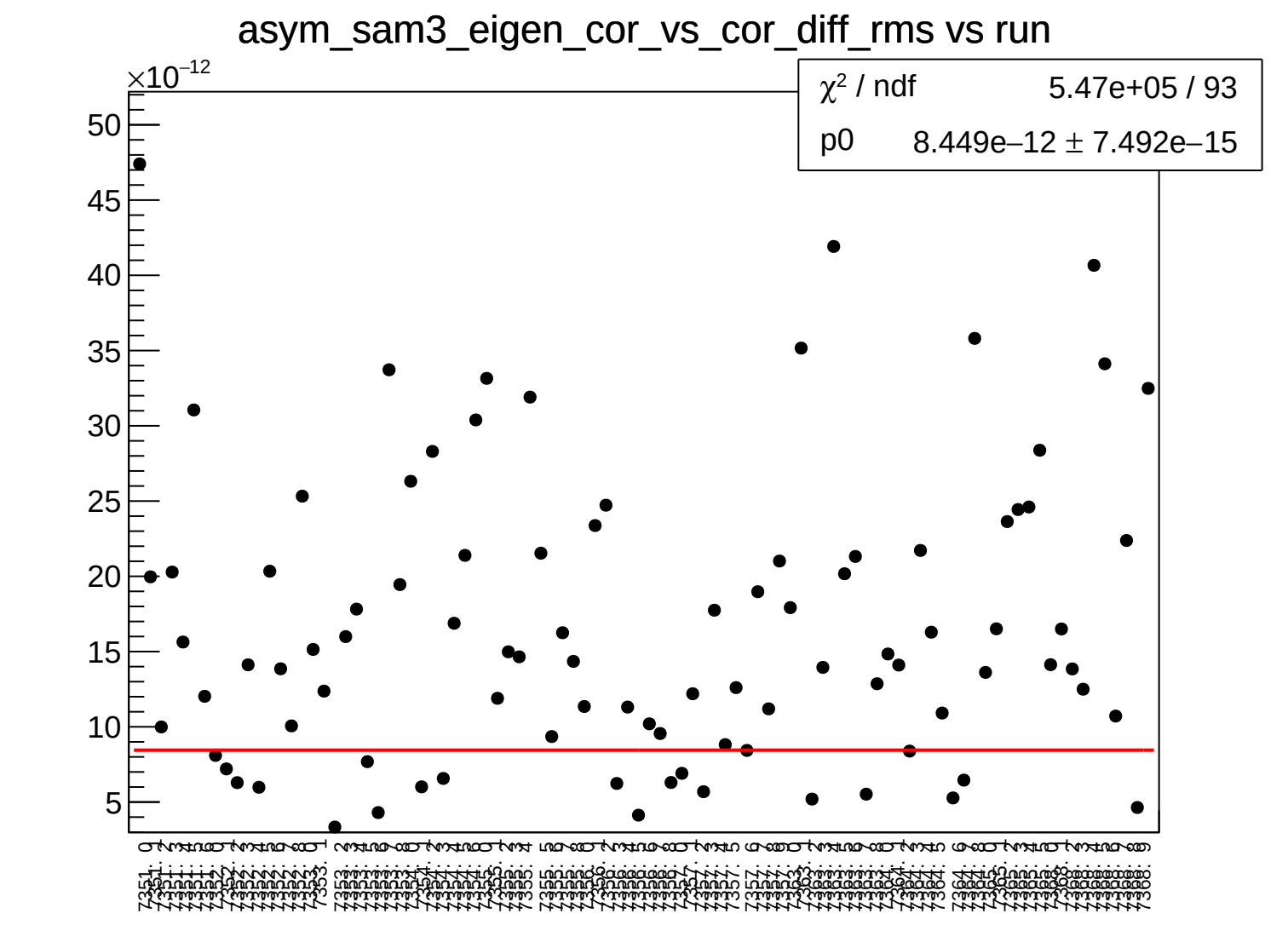

asym_sam3_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 108.2 / 93
p0 −0.2538 ± 0.1071
pull
Entries 94
Mean −131.2
Std Dev 0
pull1D
Entries 94
Mean 0.034
Std Dev 1.072

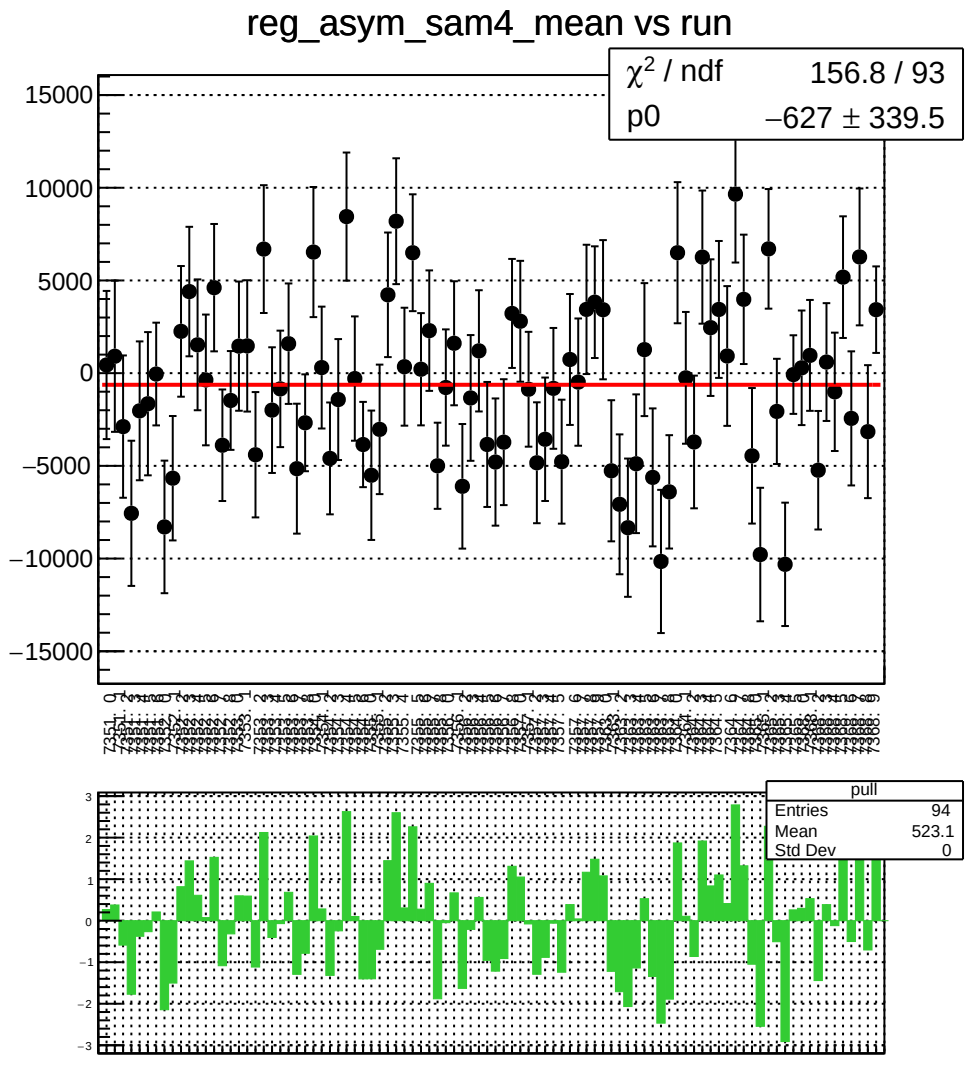

asym_sam3_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.137e+05 / 93
p0 98.86 ± 0.07571
300
250
200
150
100
50

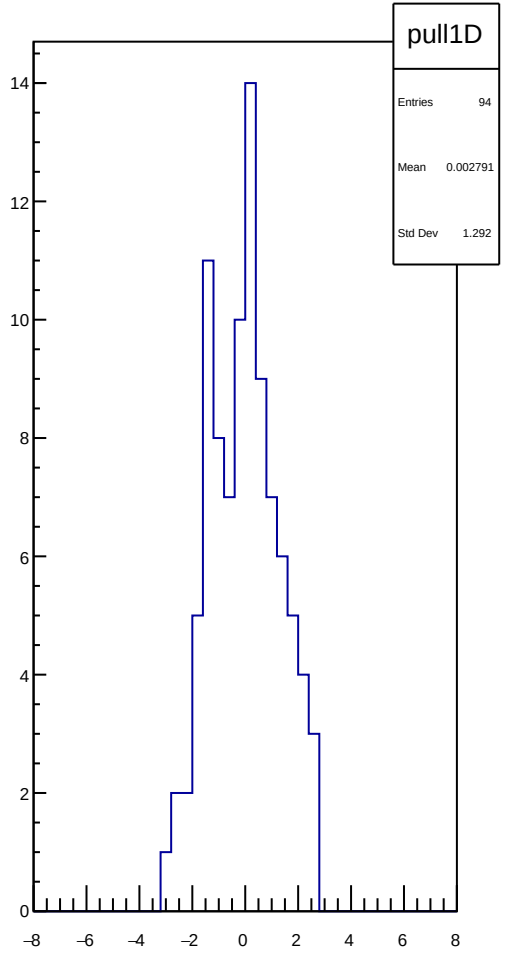

asym_sam3_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 108.2 / 93
p0 −0.2538 ± 0.1071
pull
Entries 94
Mean −131.2
Std Dev 0
pull1D
Entries 94
Mean 0.034
Std Dev 1.072

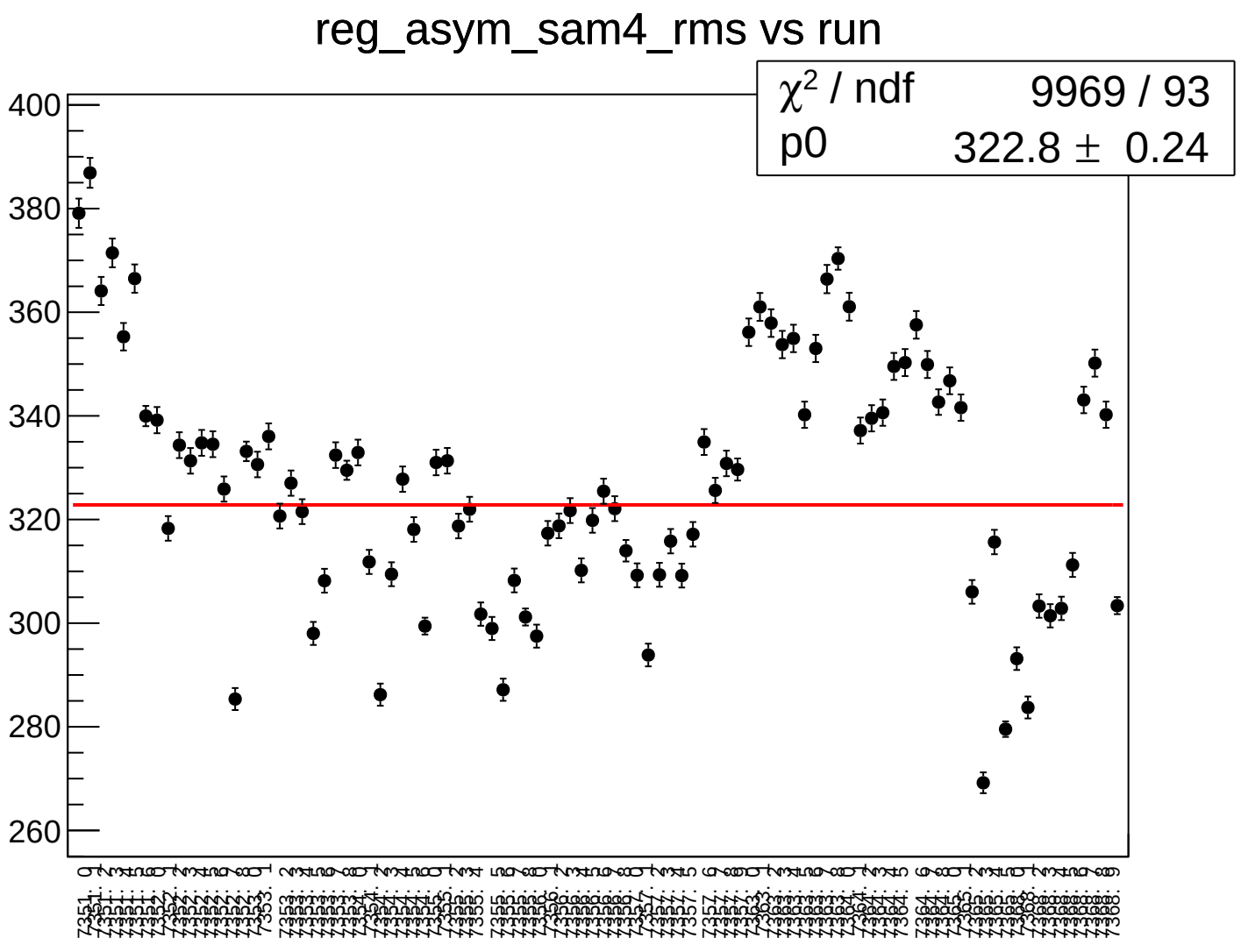

asym_sam3_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.137e+05 / 93
p0 98.86 ± 0.07571
300
250
200
150
100
50

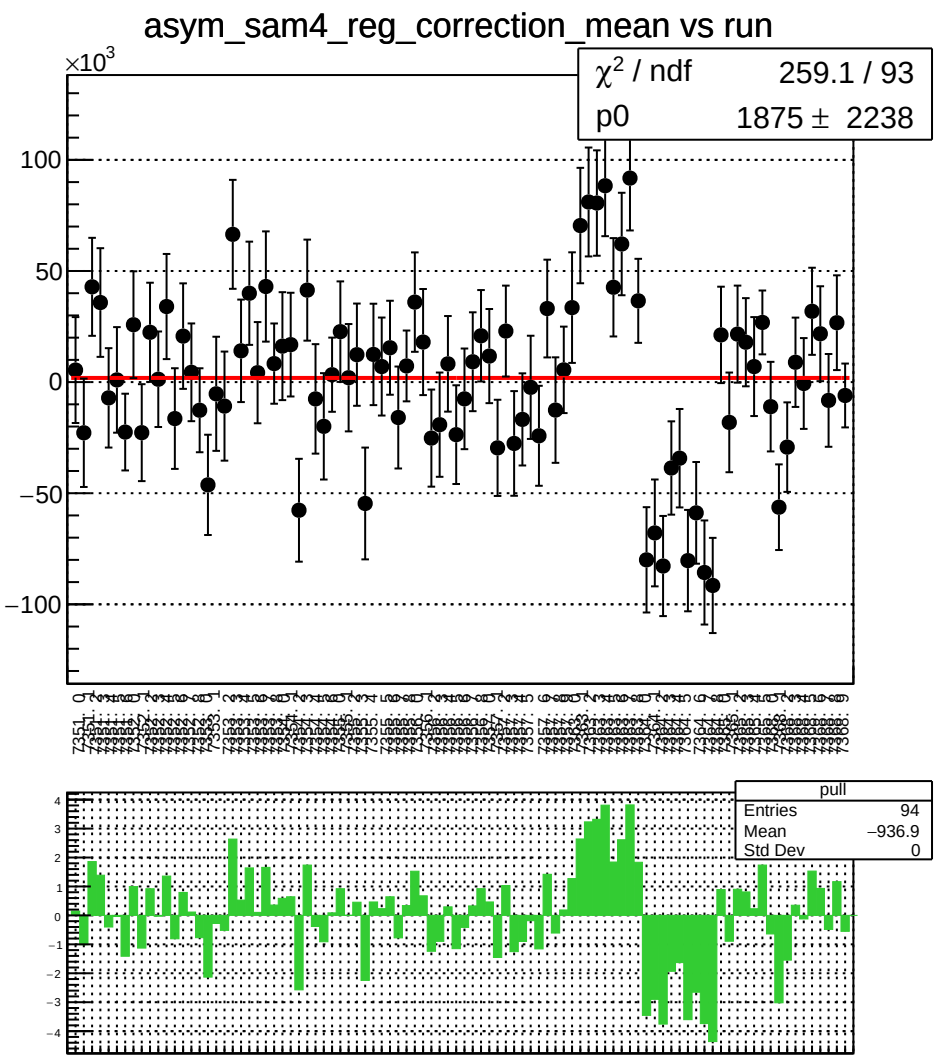

asym_sam3_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 143.8 / 93
p0 6.722e−15 ± 1.06e−14
pull
Entries 94
Mean 30.72
Std Dev 45.9
pull1D
Entries 94
Mean −0.04597
Std Dev 1.236

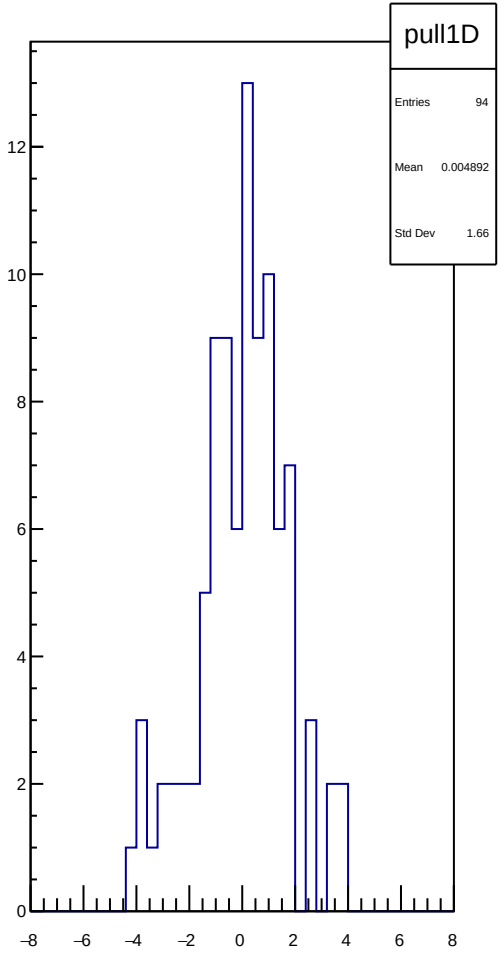

asym_sam3_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.47e+05 / 93
p0 8.449e−12 ± 7.492e−15
50
45
40
35
30
25
20
15
10
5

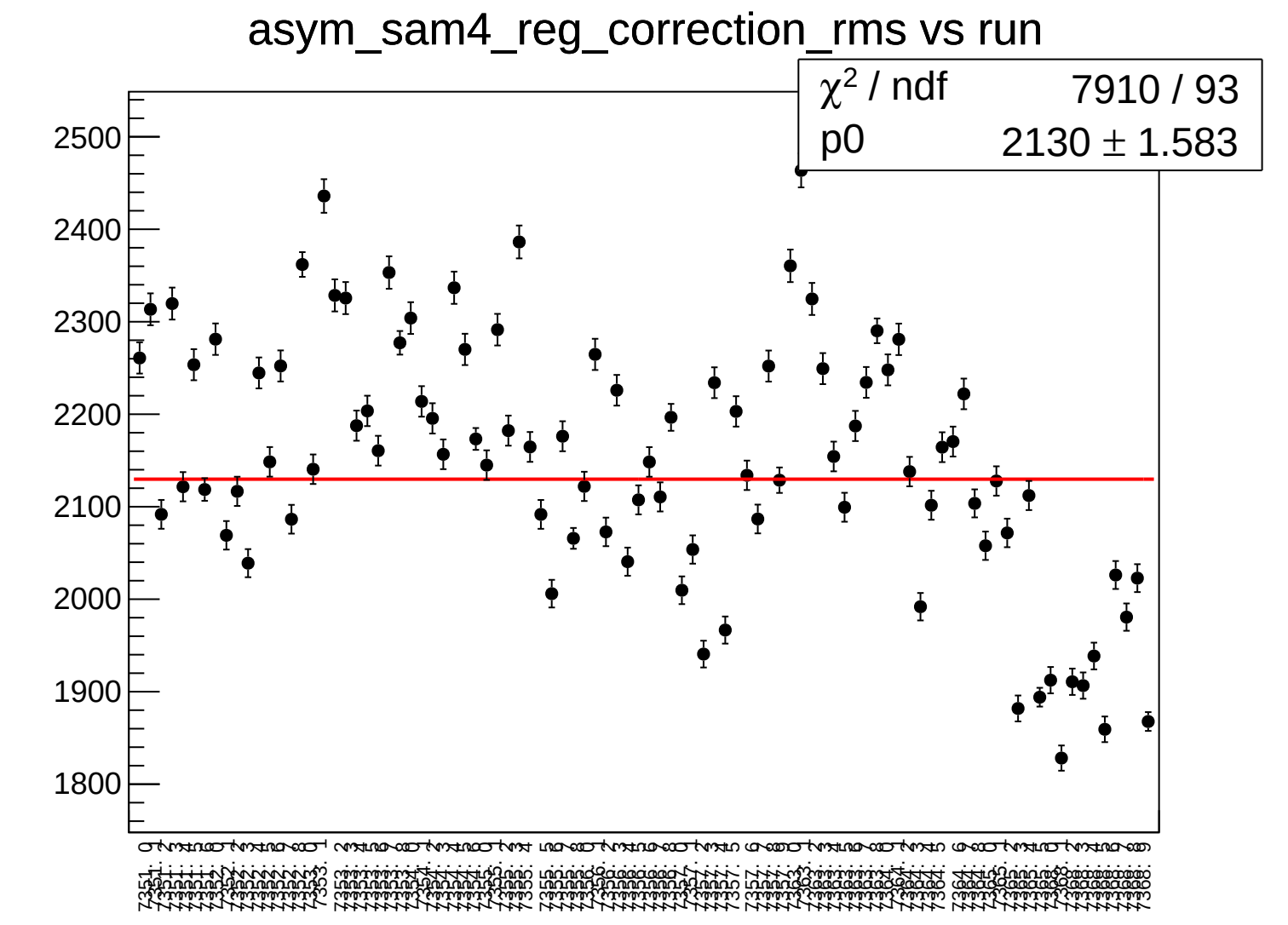

reg_asym_sam4_mean vs run
χ² / ndf 156.8 / 93
p0 −627 ± 339.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean 523.1
Std Dev 0
3
2
1
0
−1
−2
−3

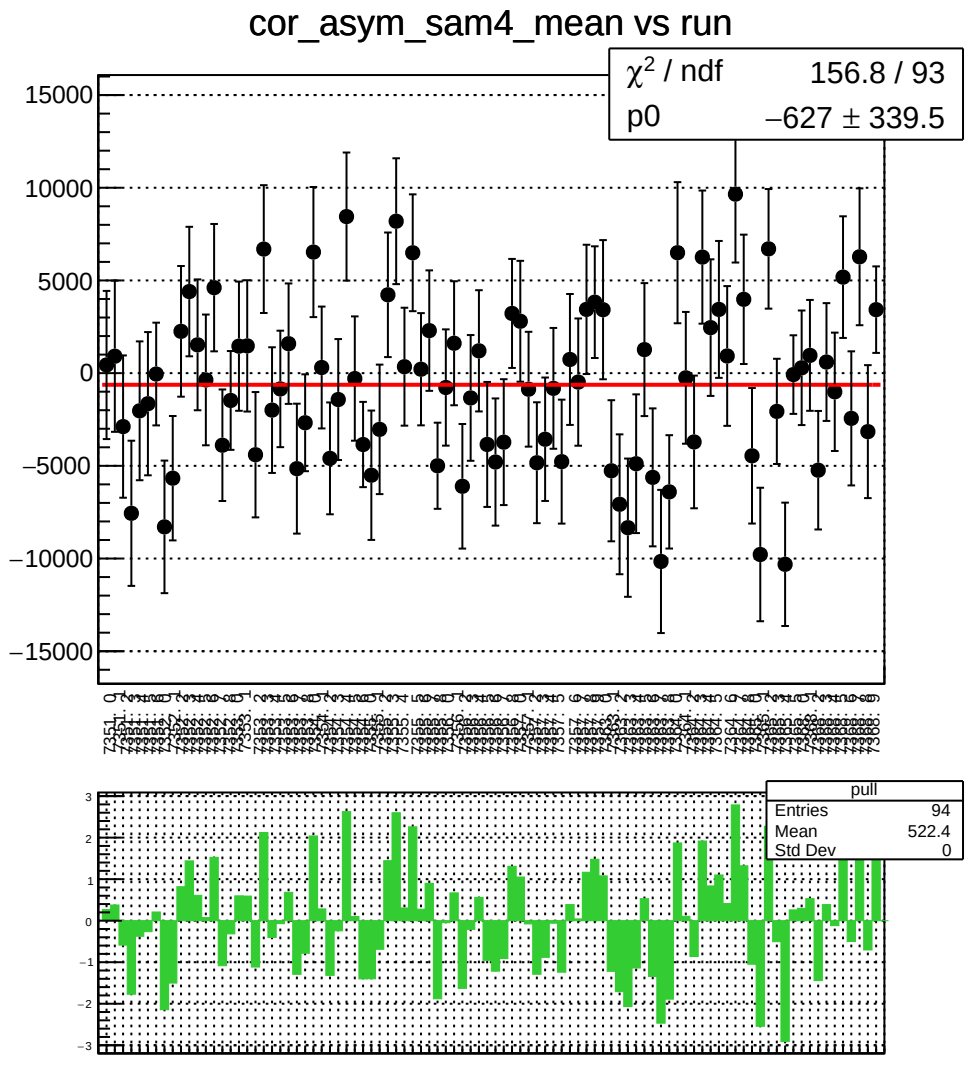

pull1D
Entries 94
Mean 0.002791
Std Dev 1.292
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

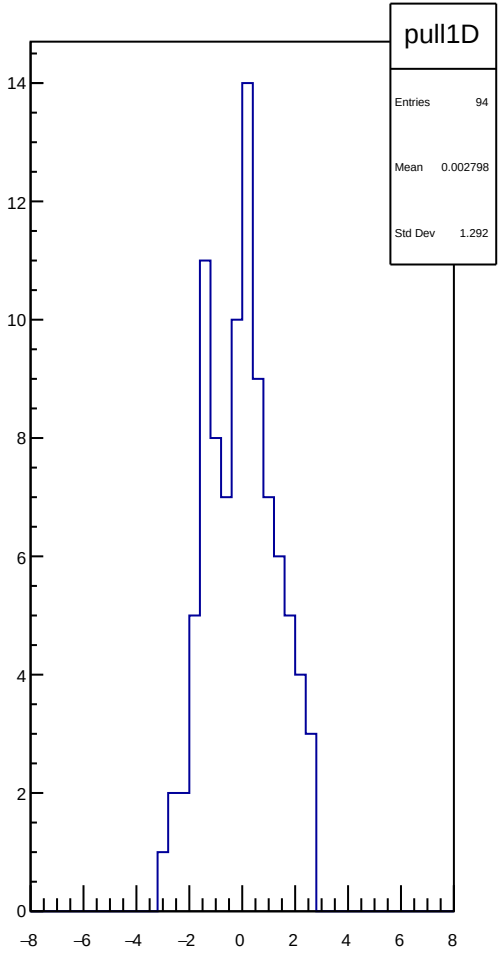

reg_asym_sam4_rms vs run
χ² / ndf 9969 / 93
p0 322.8 ± 0.24
400
380
360
340
320
300
280
260

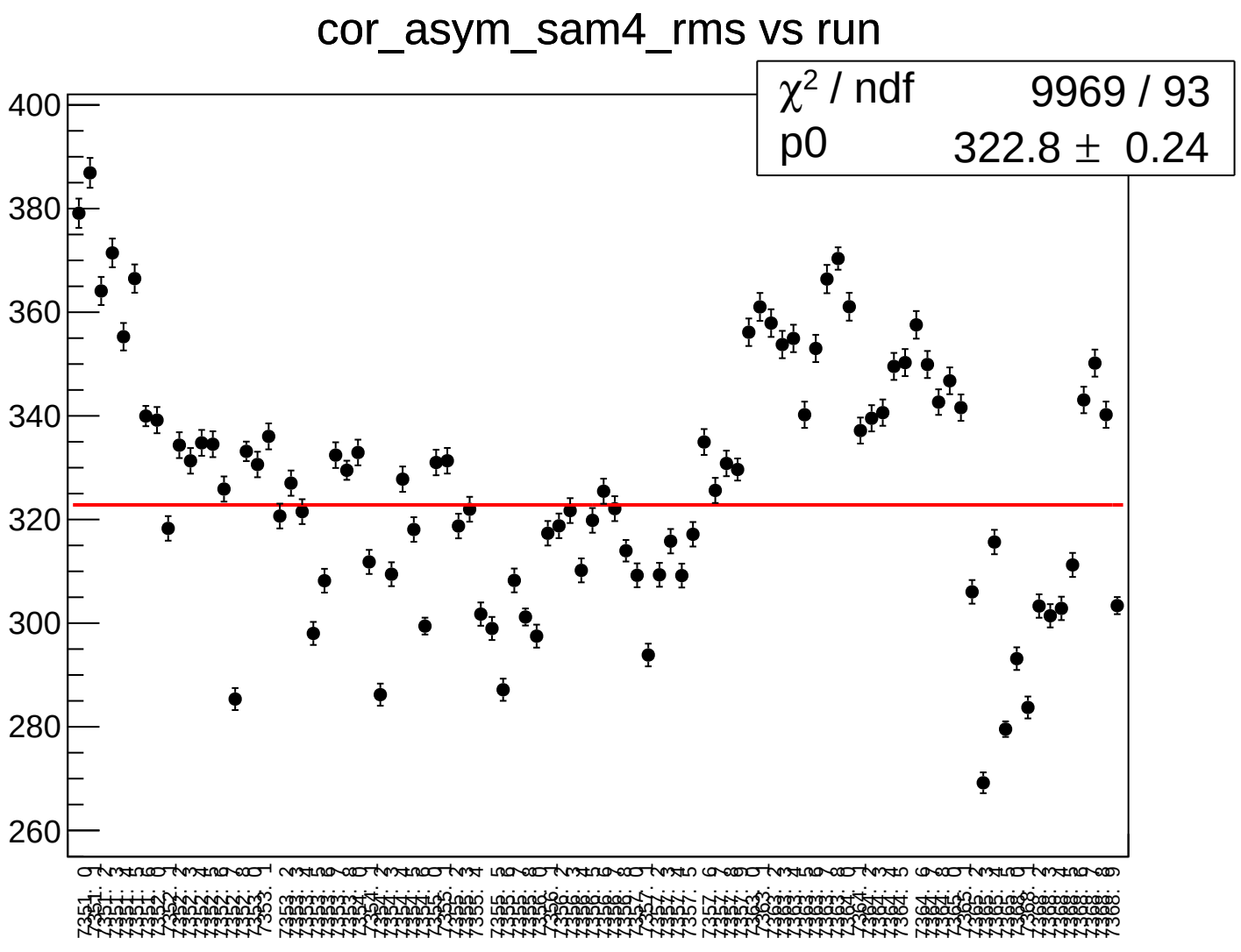

asym_sam4_reg_correction_mean vs run
×10^3
χ² / ndf 259.1 / 93
p0 1875 ± 2238
100
50
0
−50
−100
pull
Entries 94
Mean −936.9
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4

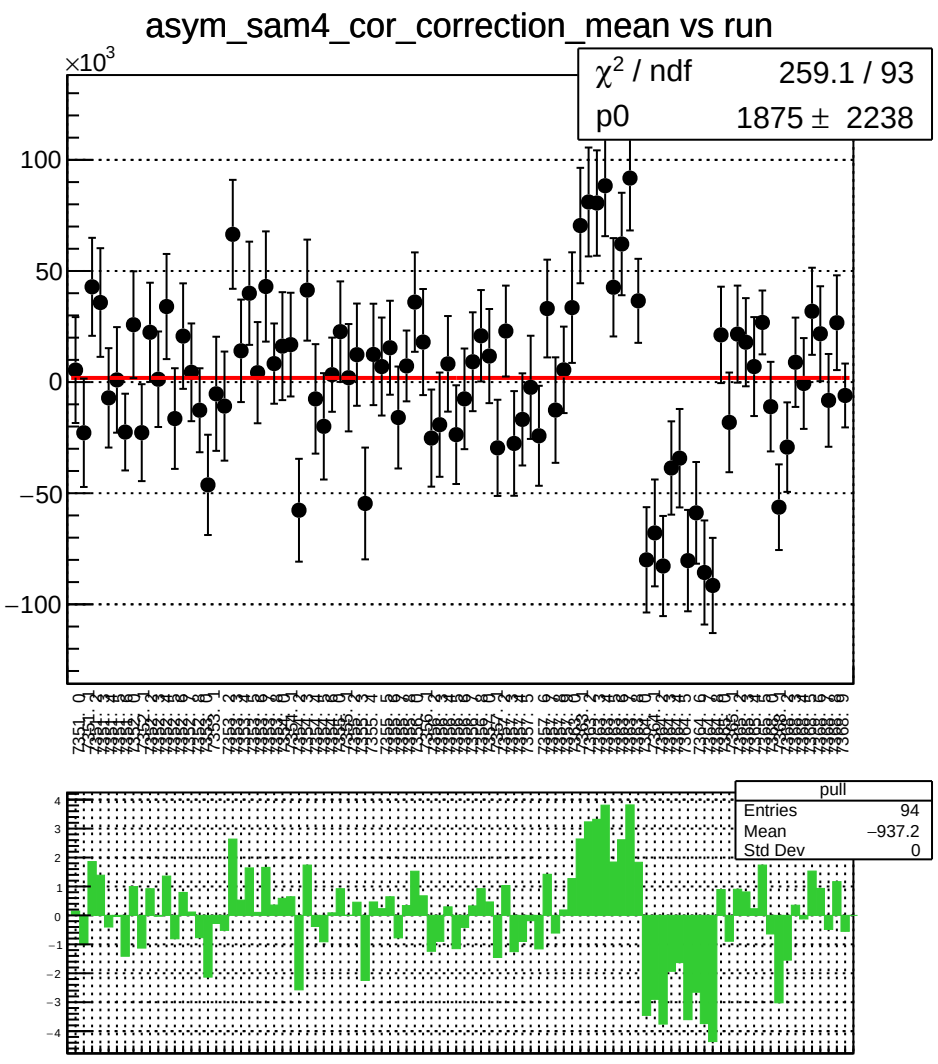

pull1D
Entries 94
Mean 0.004892
Std Dev 1.66
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

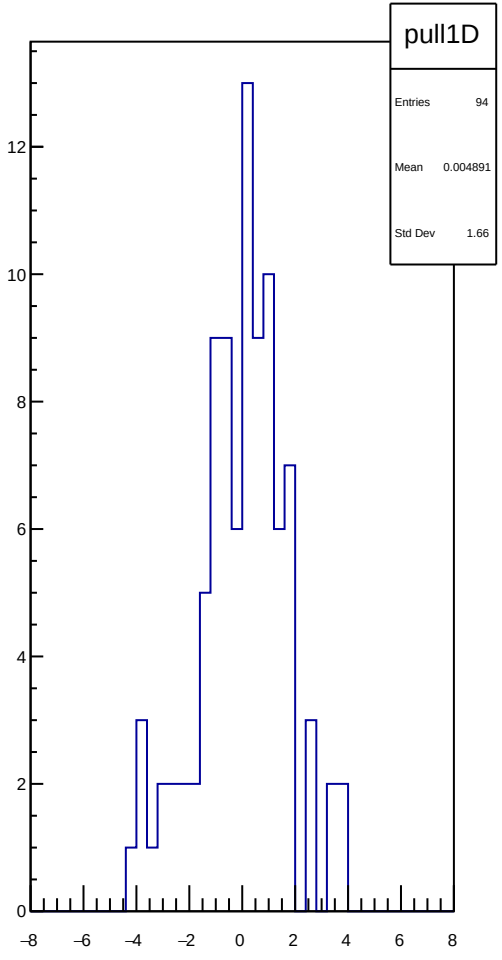

asym_sam4_reg_correction_rms vs run
χ² / ndf 7910 / 93
p0 2130 ± 1.583
2500
2400
2300
2200
2100
2000
1900
1800

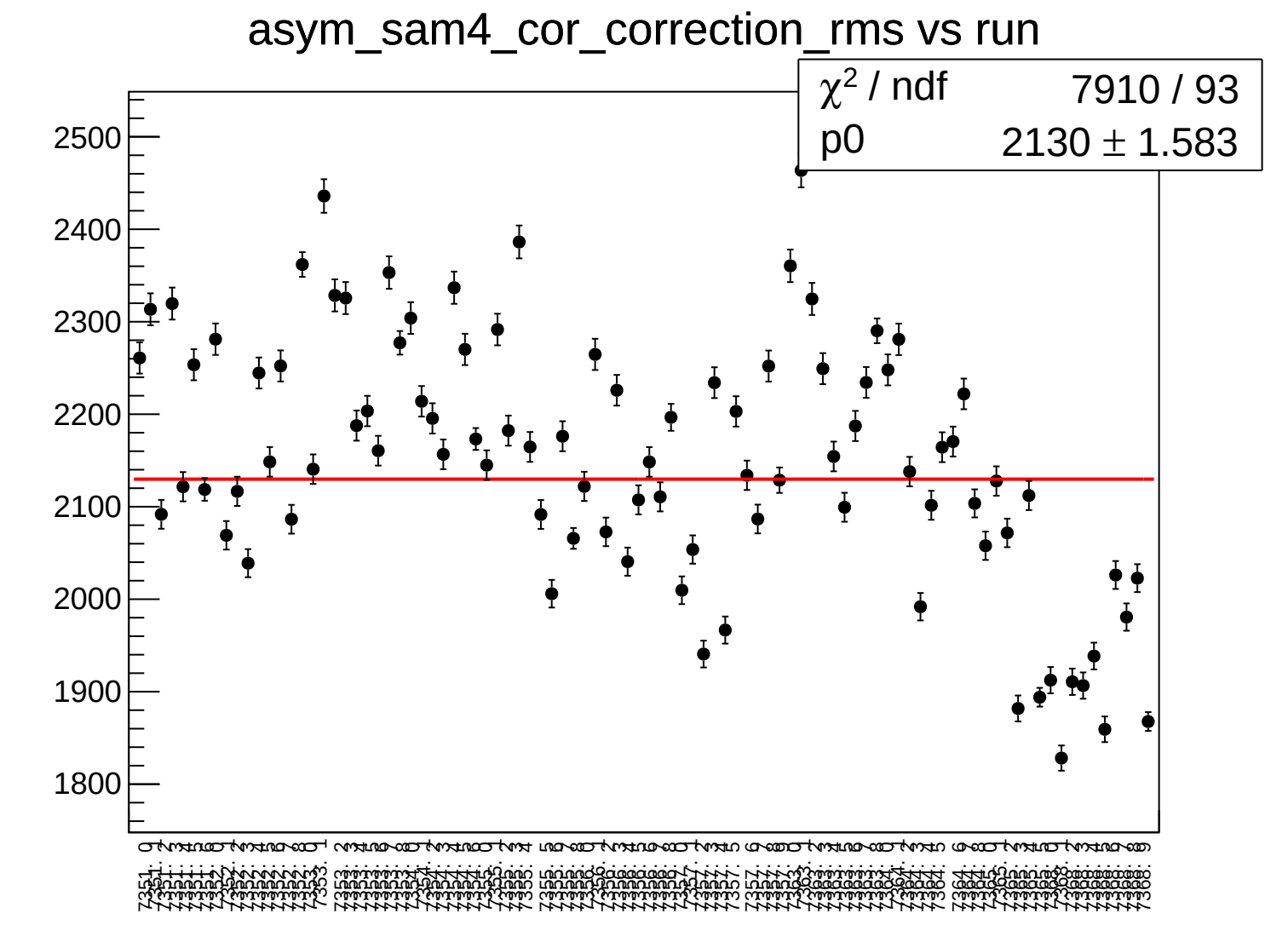

cor_asym_sam4_mean vs run
χ² / ndf 156.8 / 93
p0 −627 ± 339.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean 522.4
Std Dev 0
3
2
1
0
−1
−2
−3

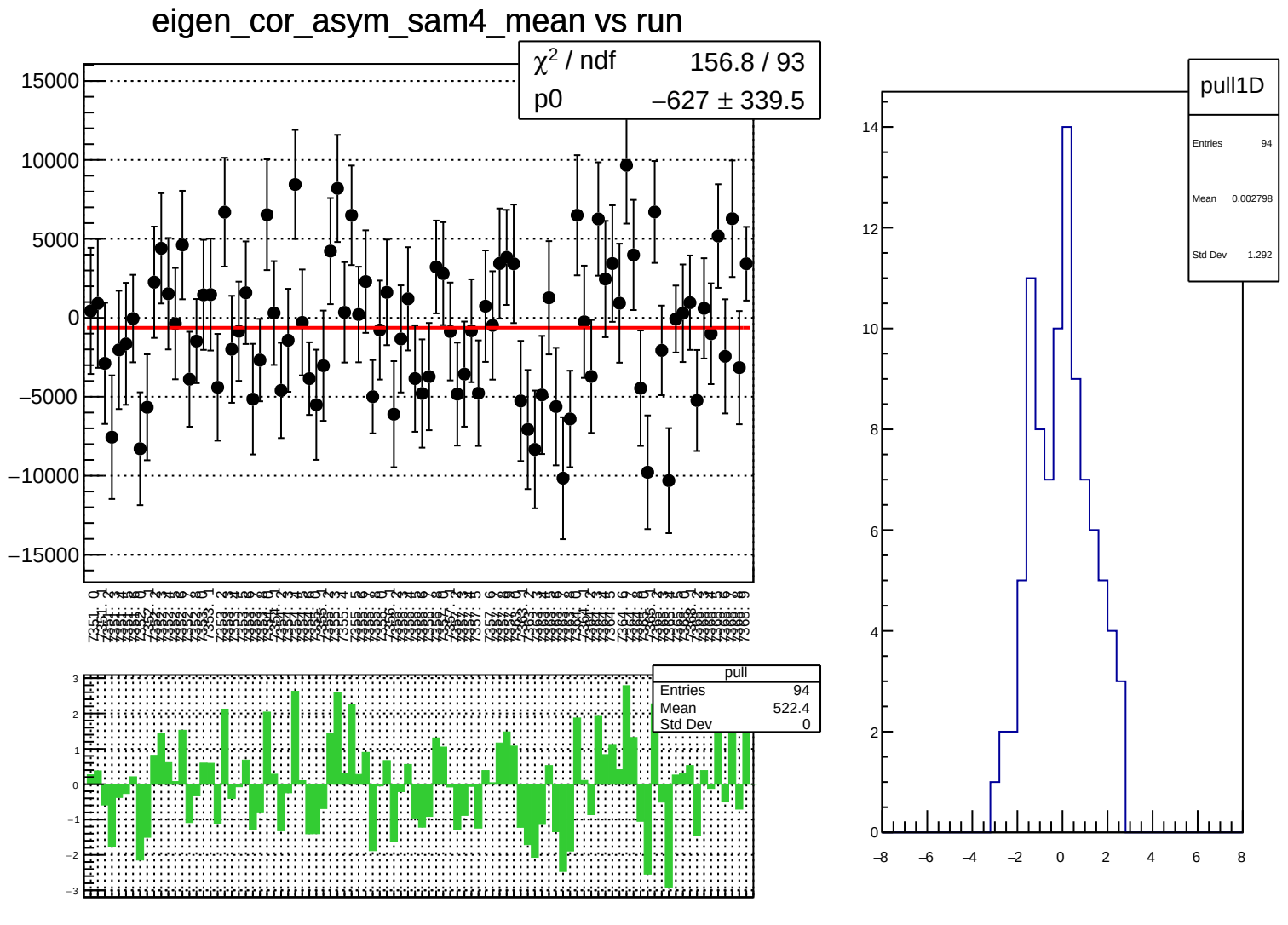

pull1D
Entries 94
Mean 0.002798
Std Dev 1.292
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

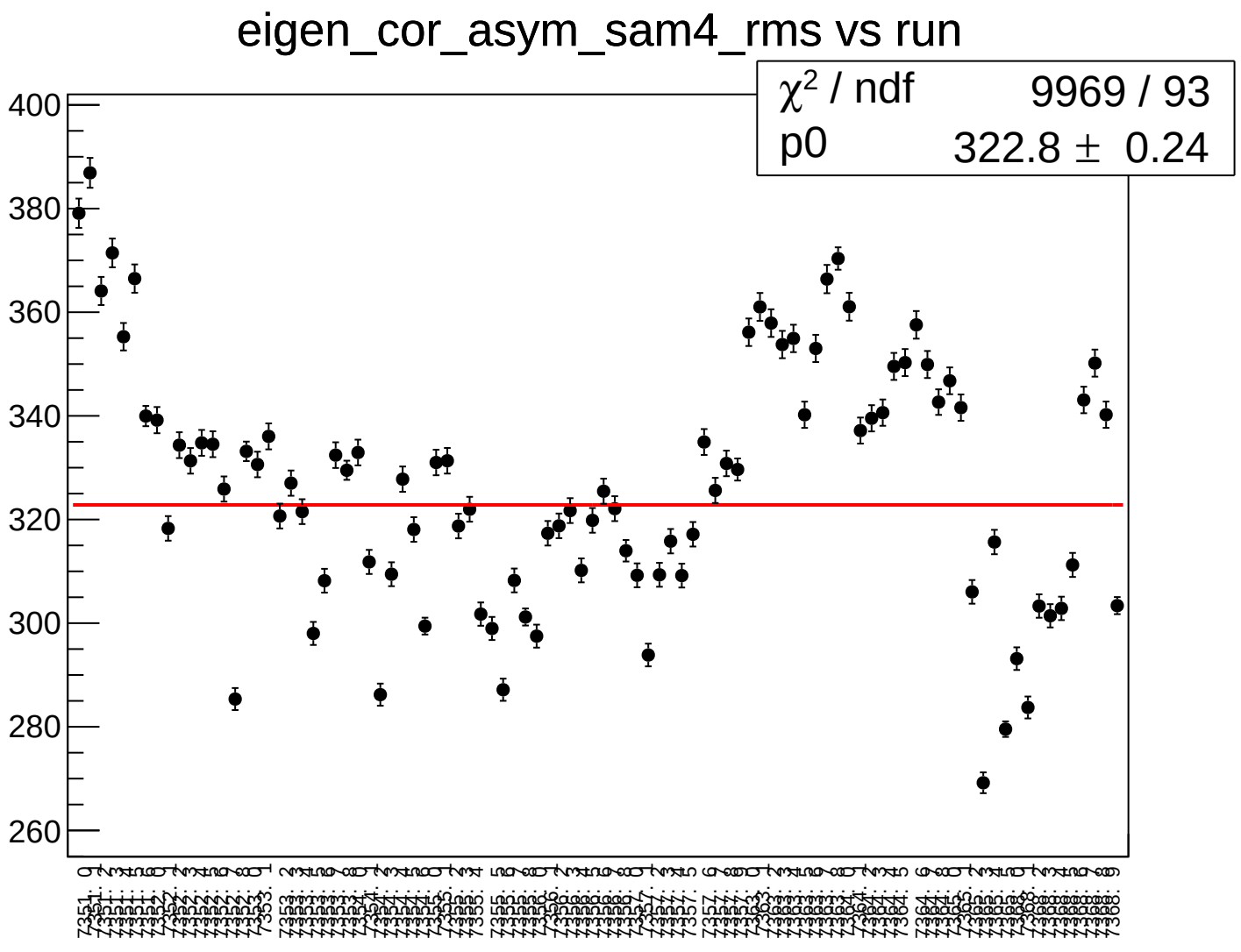

cor_asym_sam4_rms vs run
χ² / ndf 9969 / 93
p0 322.8 ± 0.24
400
380
360
340
320
300
280
260

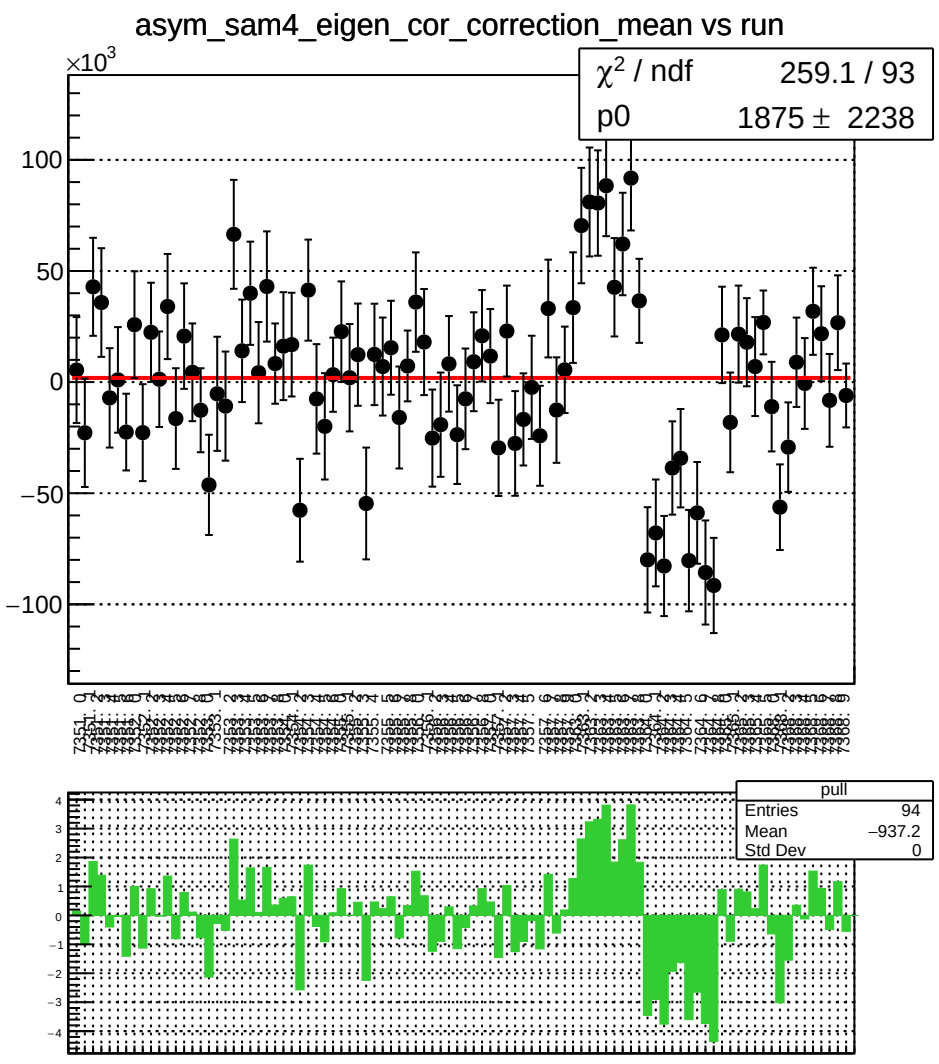

asym_sam4_cor_correction_mean vs run
×10^3
χ² / ndf 259.1 / 93
p0 1875 ± 2238
100
50
0
−50
−100
pull
Entries 94
Mean −937.2
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4

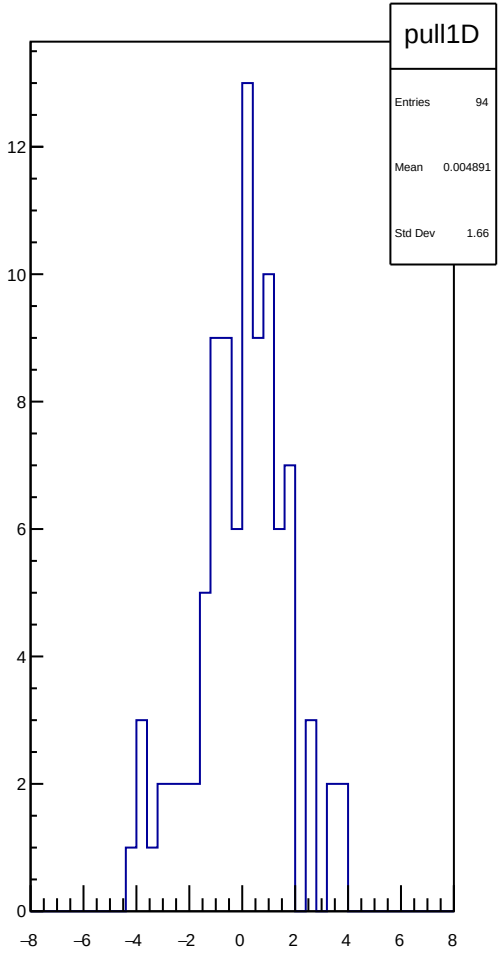

pull1D
Entries 94
Mean 0.004891
Std Dev 1.66
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

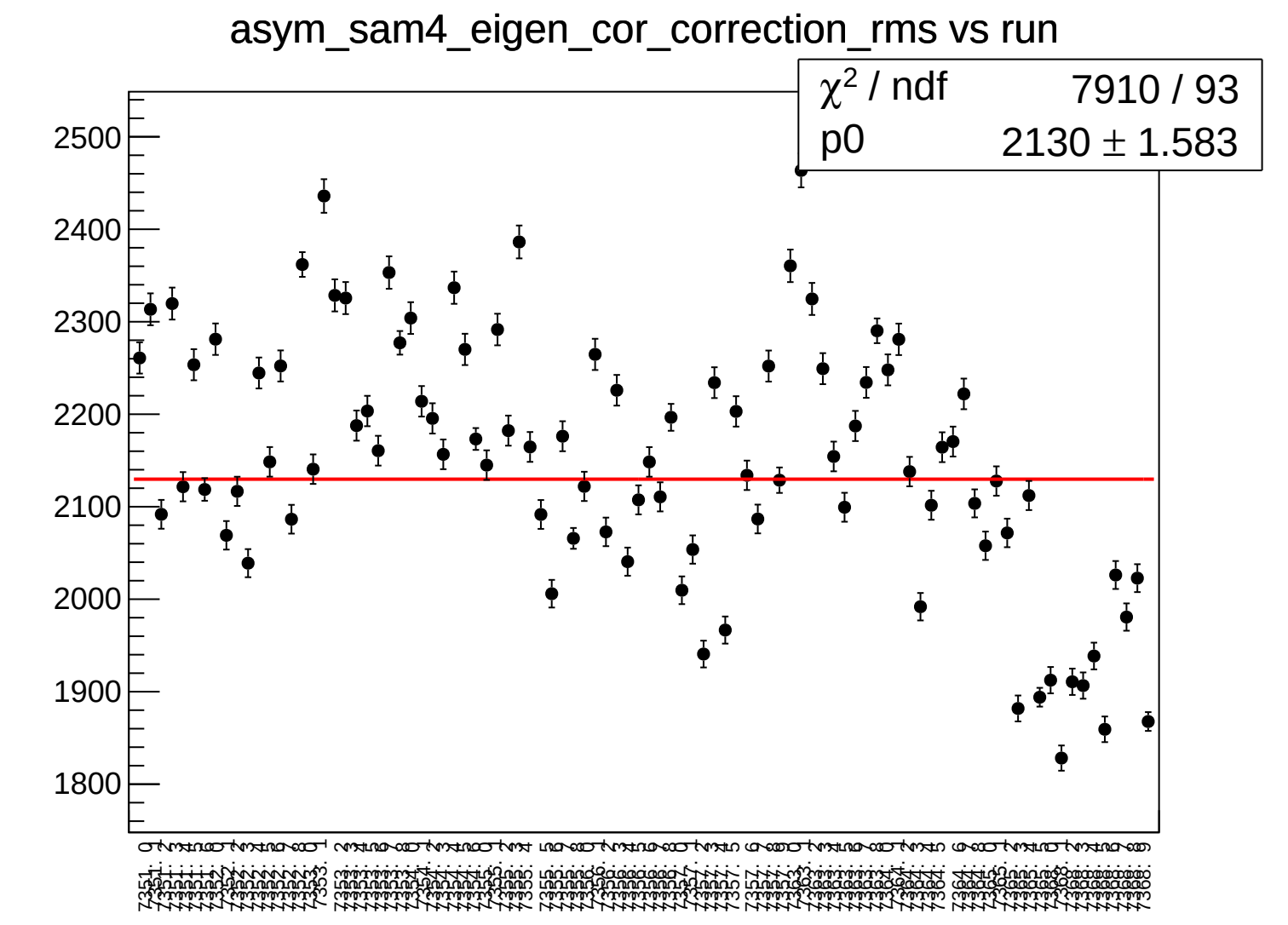

asym_sam4_cor_correction_rms vs run
χ² / ndf 7910 / 93
p0 2130 ± 1.583
2500
2400
2300
2200
2100
2000
1900
1800

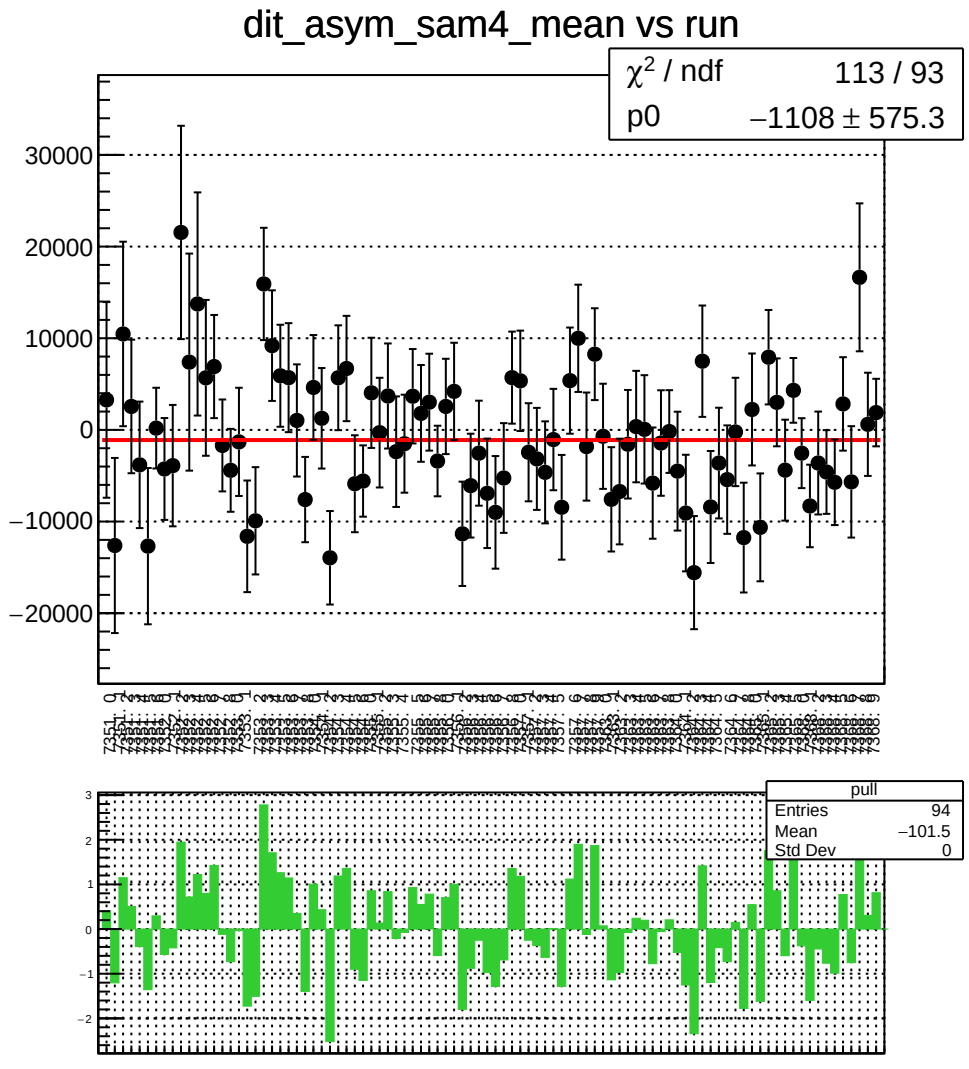

eigen_cor_asym_sam4_mean vs run
χ² / ndf 156.8 / 93
p0 −627 ± 339.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean 522.4
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.002798
Std Dev 1.292
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

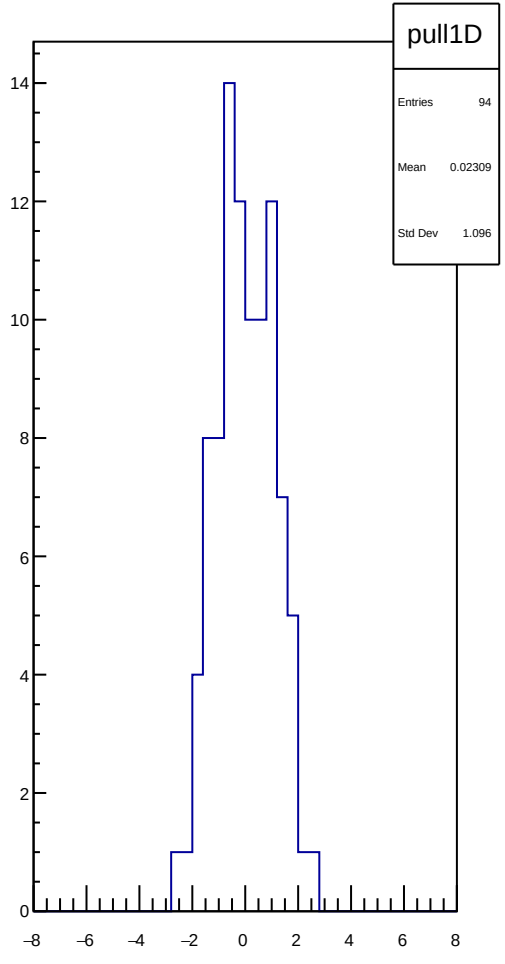

eigen_cor_asym_sam4_rms vs run
χ² / ndf 9969 / 93
p0 322.8 ± 0.24
400
380
360
340
320
300
280
260

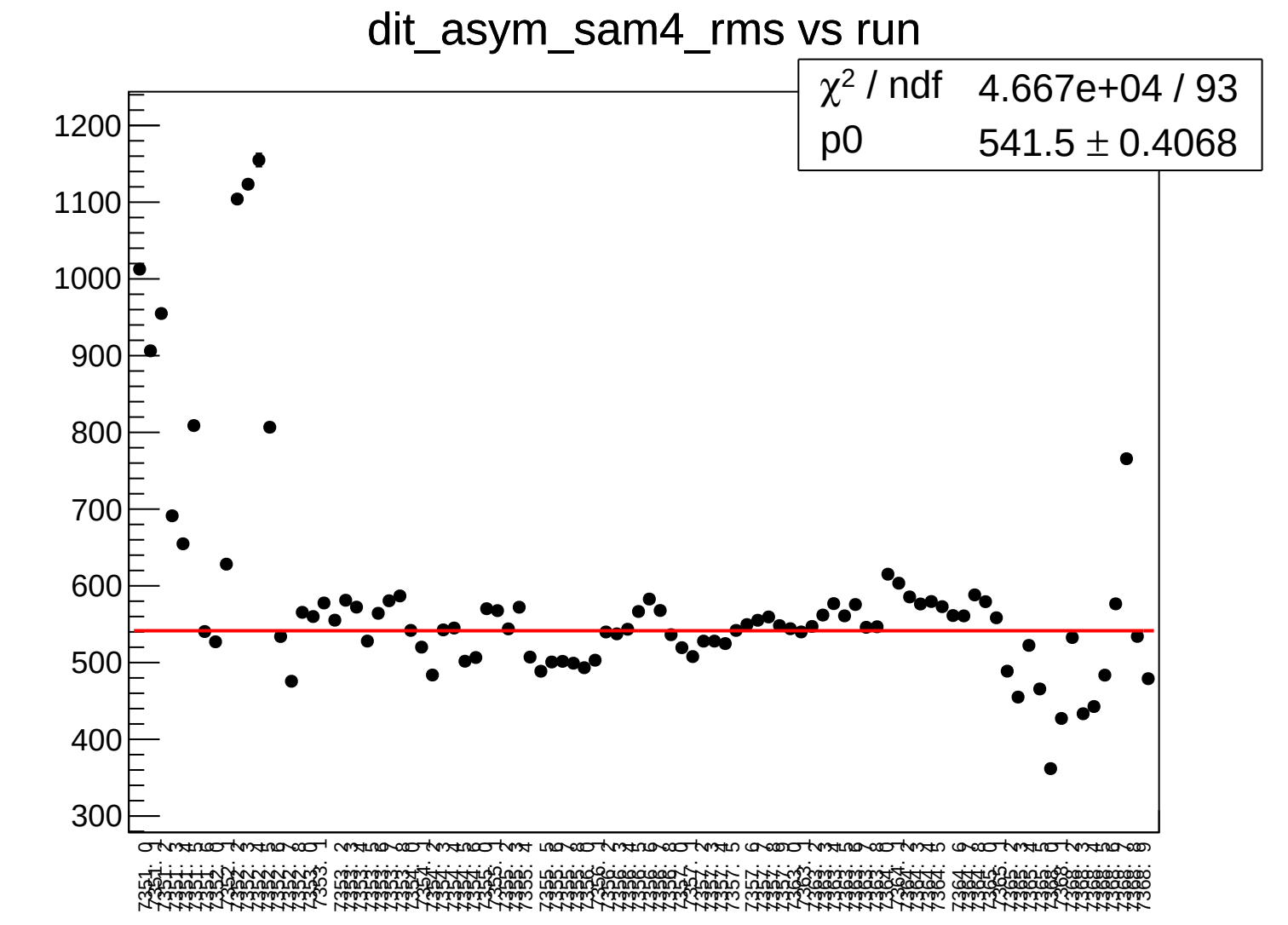

asym_sam4_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 259.1 / 93
p0 1875 ± 2238
100
50
0
−50
−100
pull
Entries 94
Mean −937.2
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4

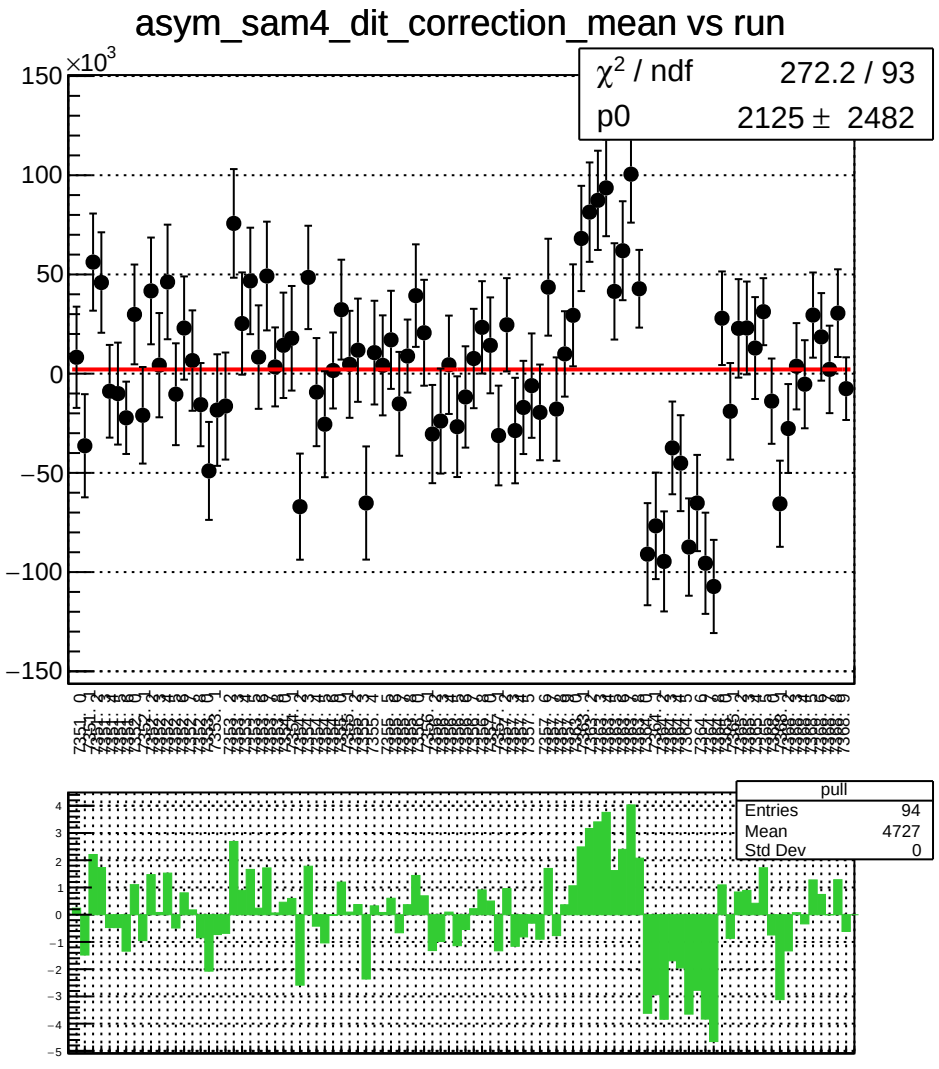

pull1D
Entries 94
Mean 0.004891
Std Dev 1.66
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

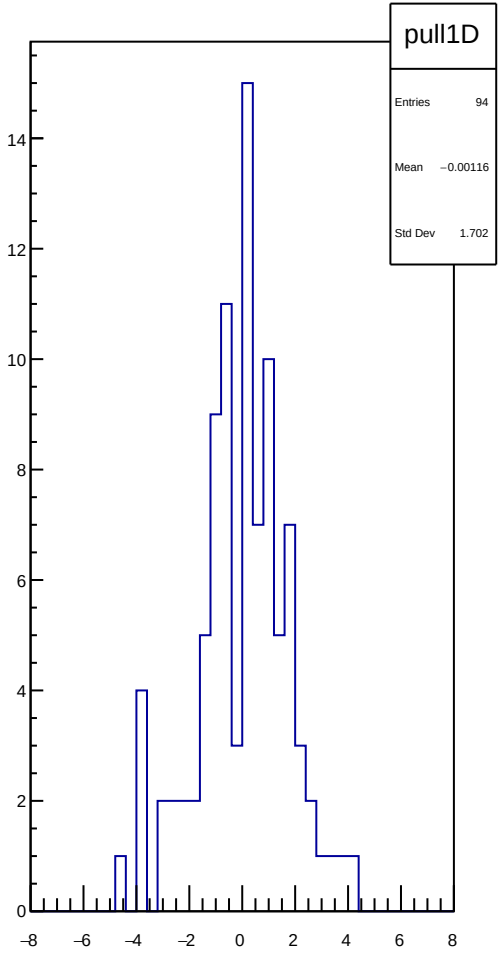

asym_sam4_eigen_cor_correction_rms vs run
χ^2 / ndf 7910 / 93
p0 2130 ± 1.583
2500
2400
2300
2200
2100
2000
1900
1800

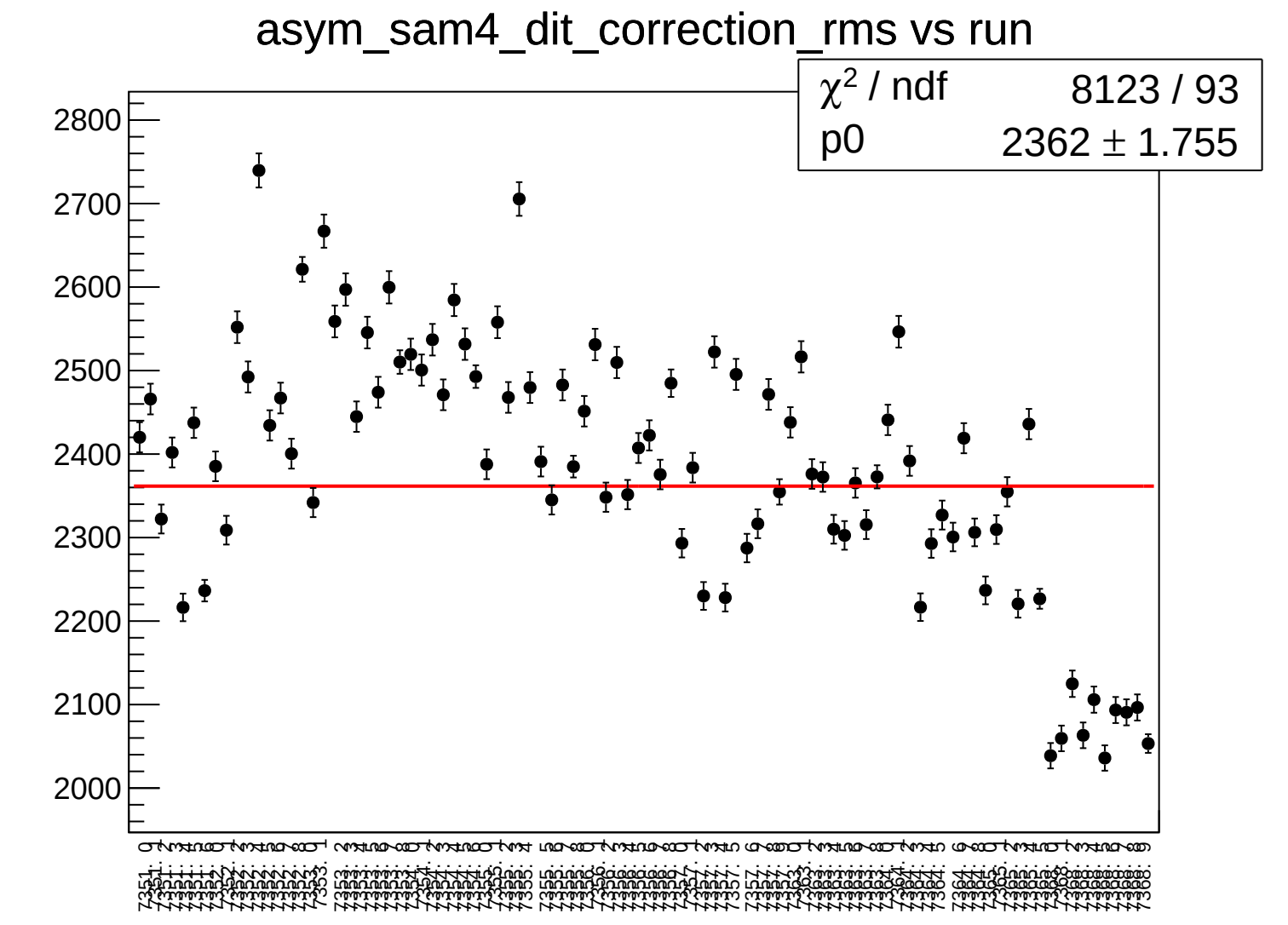

dit_asym_sam4_mean vs run
χ² / ndf 113 / 93
p0 −1108 ± 575.3
30000
20000
10000
0
−10000
−20000
pull
Entries 94
Mean −101.5
Std Dev 0
3
2
1
0
−1
−2

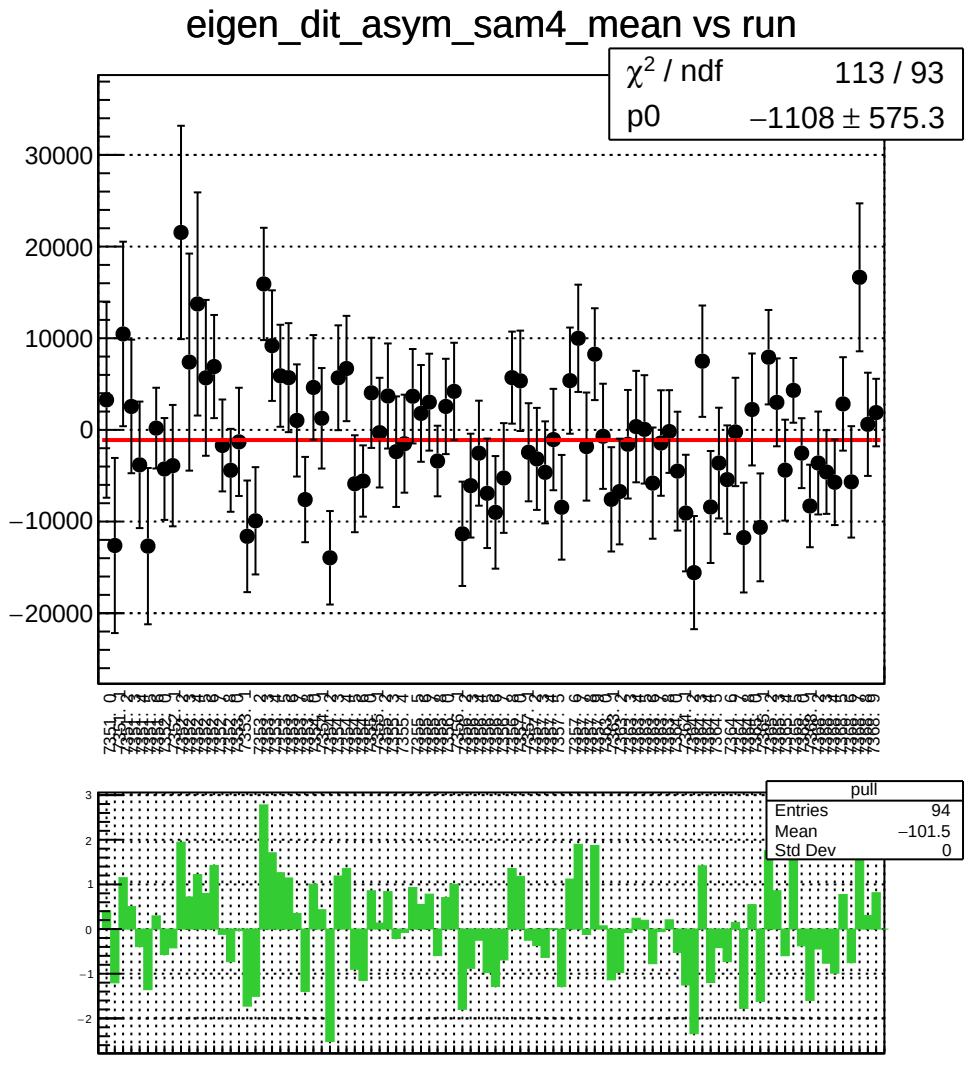

pull1D
Entries 94
Mean 0.02309
Std Dev 1.096
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

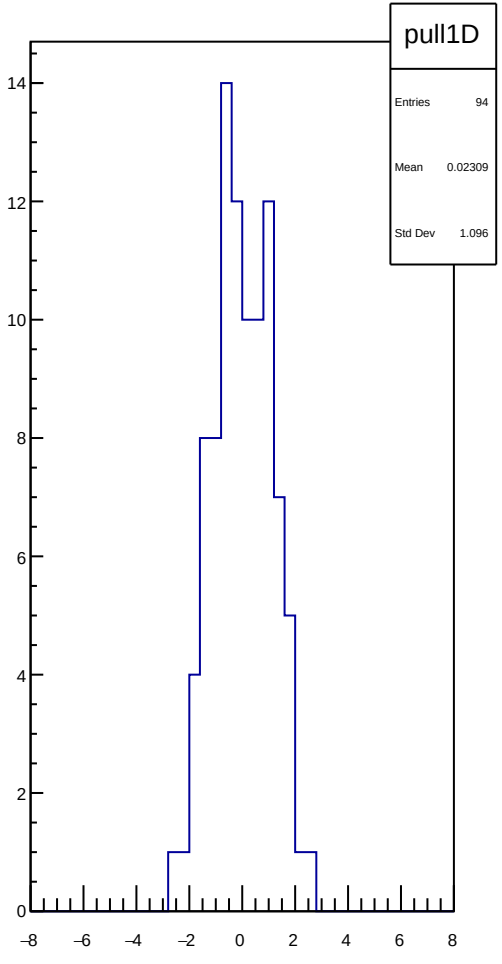

dit_asym_sam4_rms vs run
χ² / ndf 4.667e+04 / 93
p0 541.5 ± 0.4068
1200
1100
1000
900
800
700
600
500
400
300

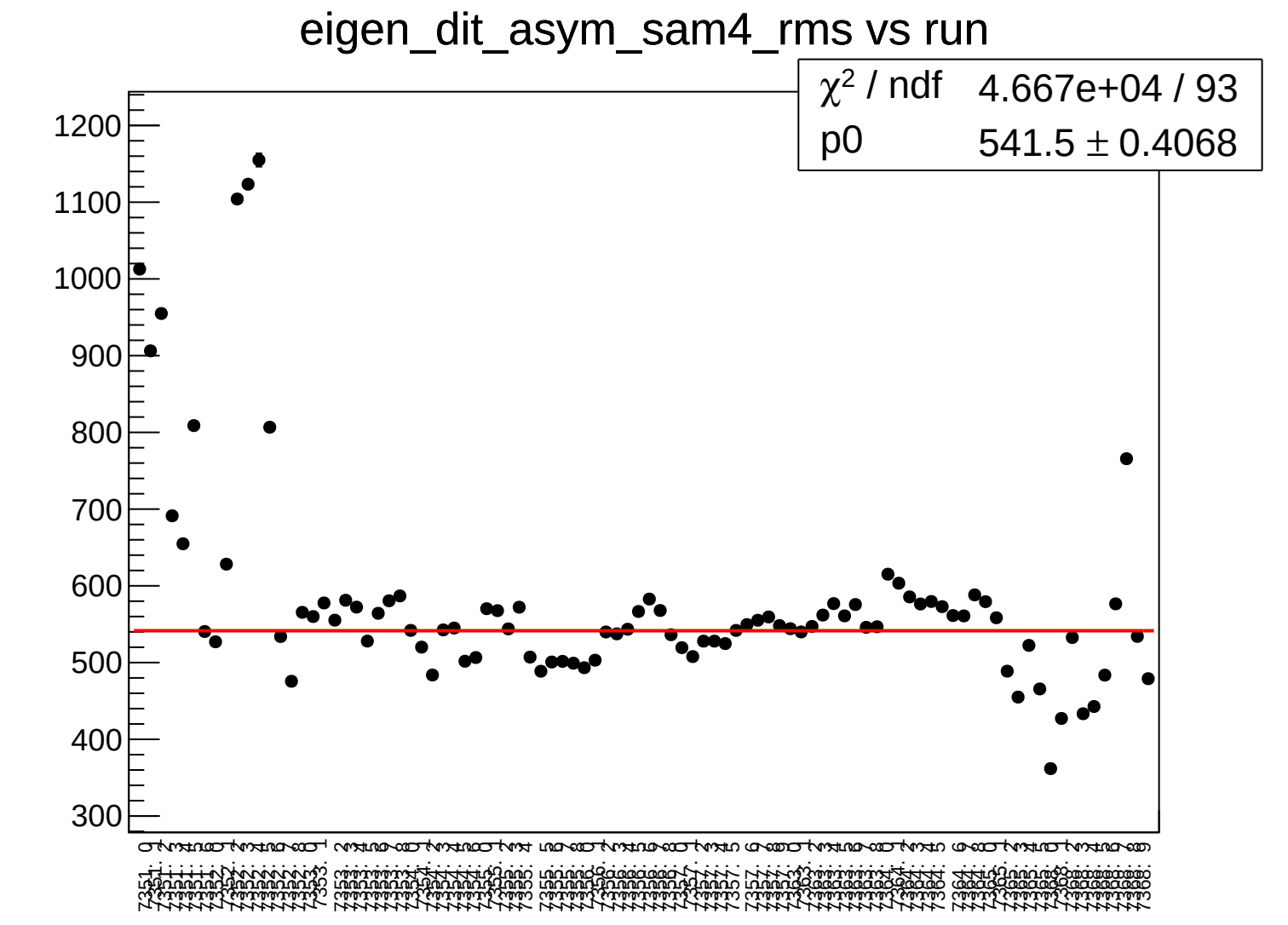

asym_sam4_dit_correction_mean vs run
×10^3
χ² / ndf 272.2 / 93
p0 2125 ± 2482
pull
Entries 94
Mean 4727
Std Dev 0

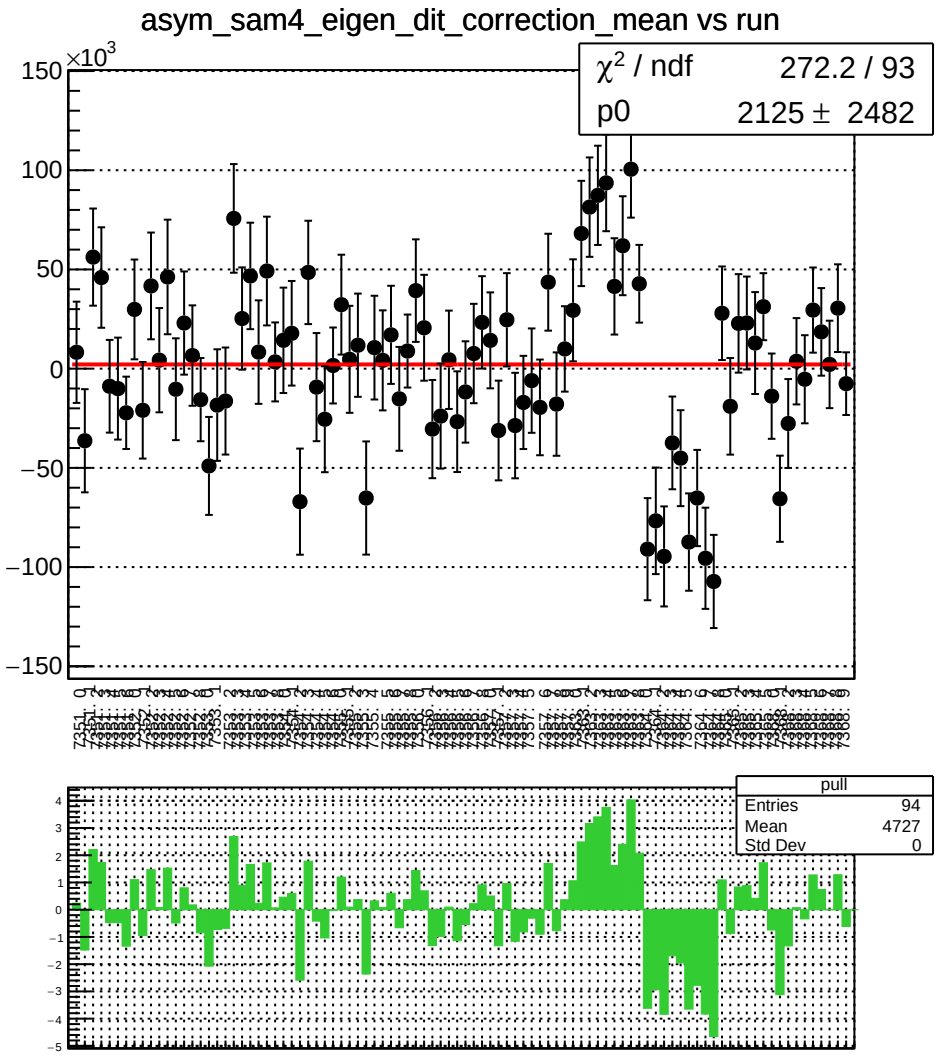

pull1D
Entries 94
Mean −0.00116
Std Dev 1.702

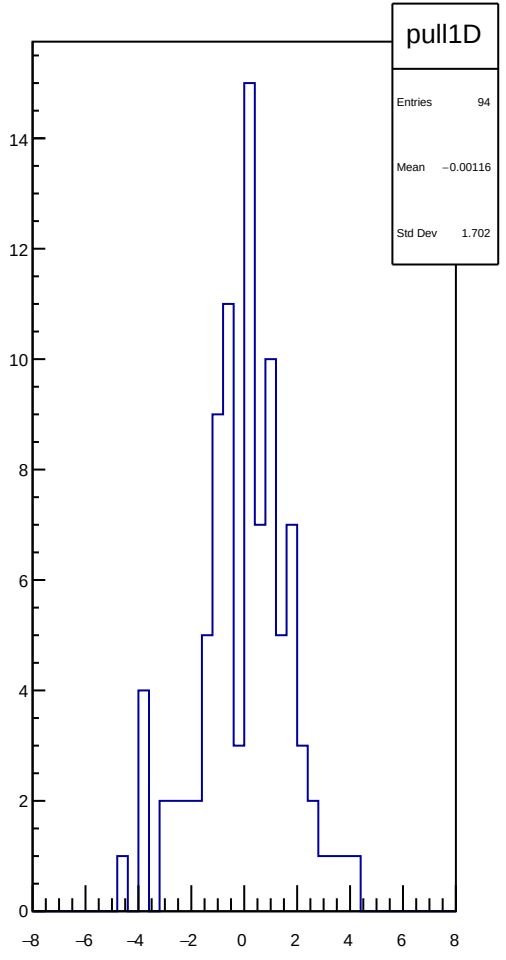

asym_sam4_dit_correction_rms vs run
χ^2 / ndf 8123 / 93
p0 2362 ± 1.755
2800
2700
2600
2500
2400
2300
2200
2100
2000

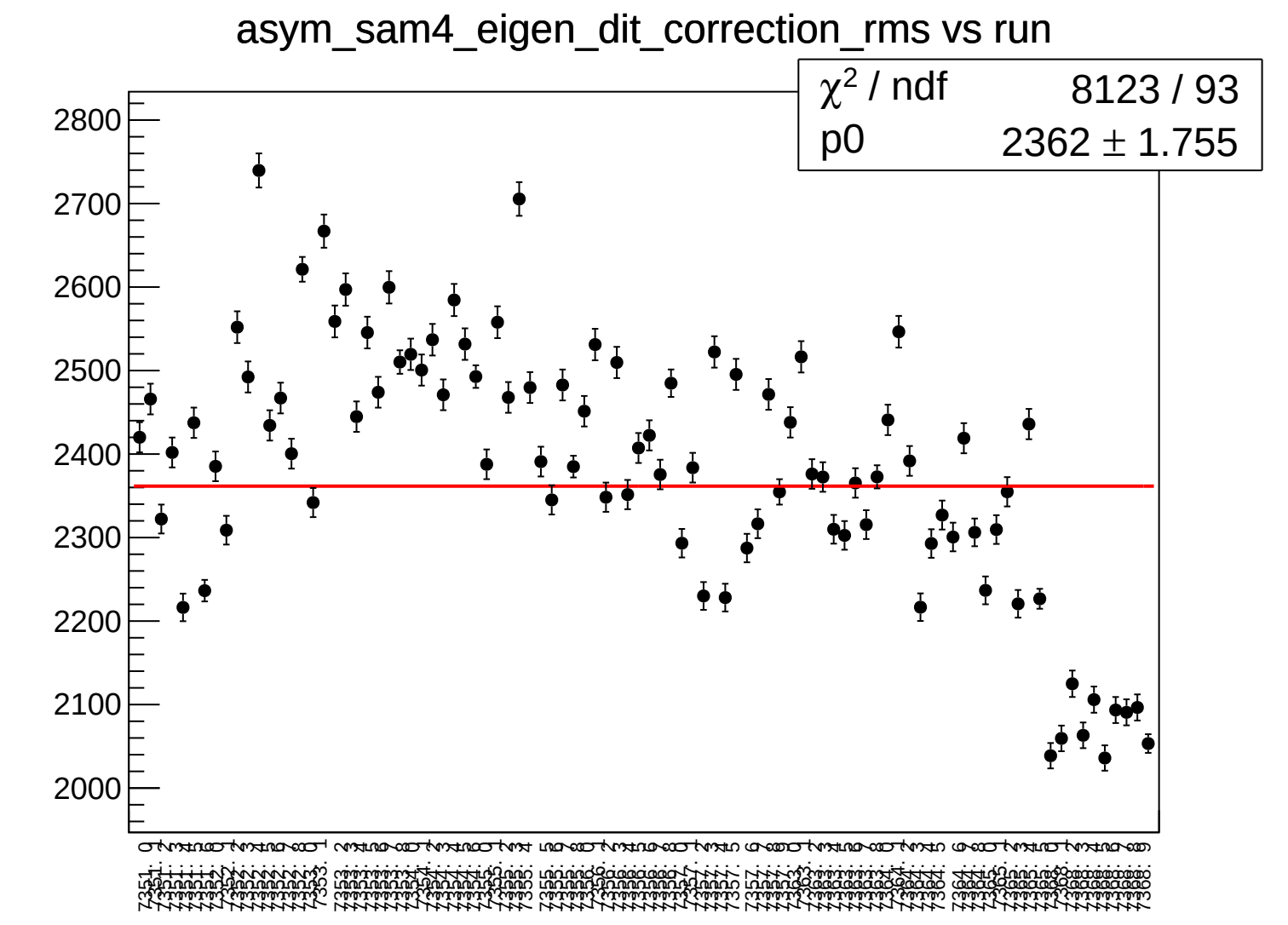

eigen_dit_asym_sam4_mean vs run
χ² / ndf 113 / 93
p0 −1108 ± 575.3
30000
20000
10000
0
−10000
−20000
pull
Entries 94
Mean −101.5
Std Dev 0
3
2
1
0
−1
−2

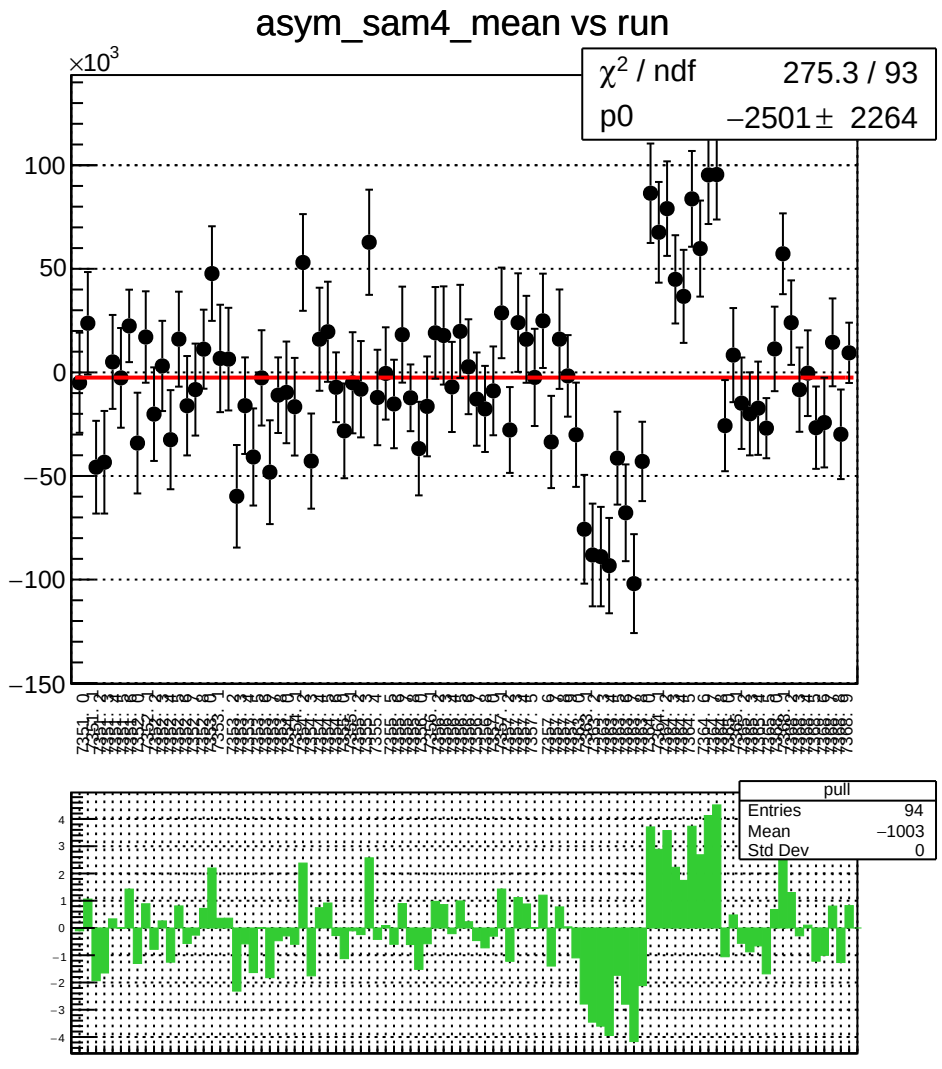

pull1D
Entries 94
Mean 0.02309
Std Dev 1.096
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

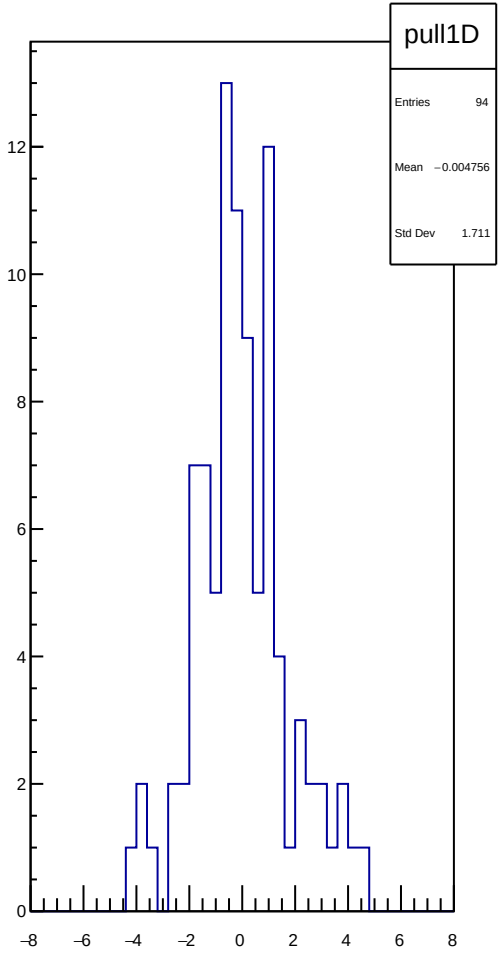

eigen_dit_asym_sam4_rms vs run
χ² / ndf 4.667e+04 / 93
p0 541.5 ± 0.4068
1200
1100
1000
900
800
700
600
500
400
300

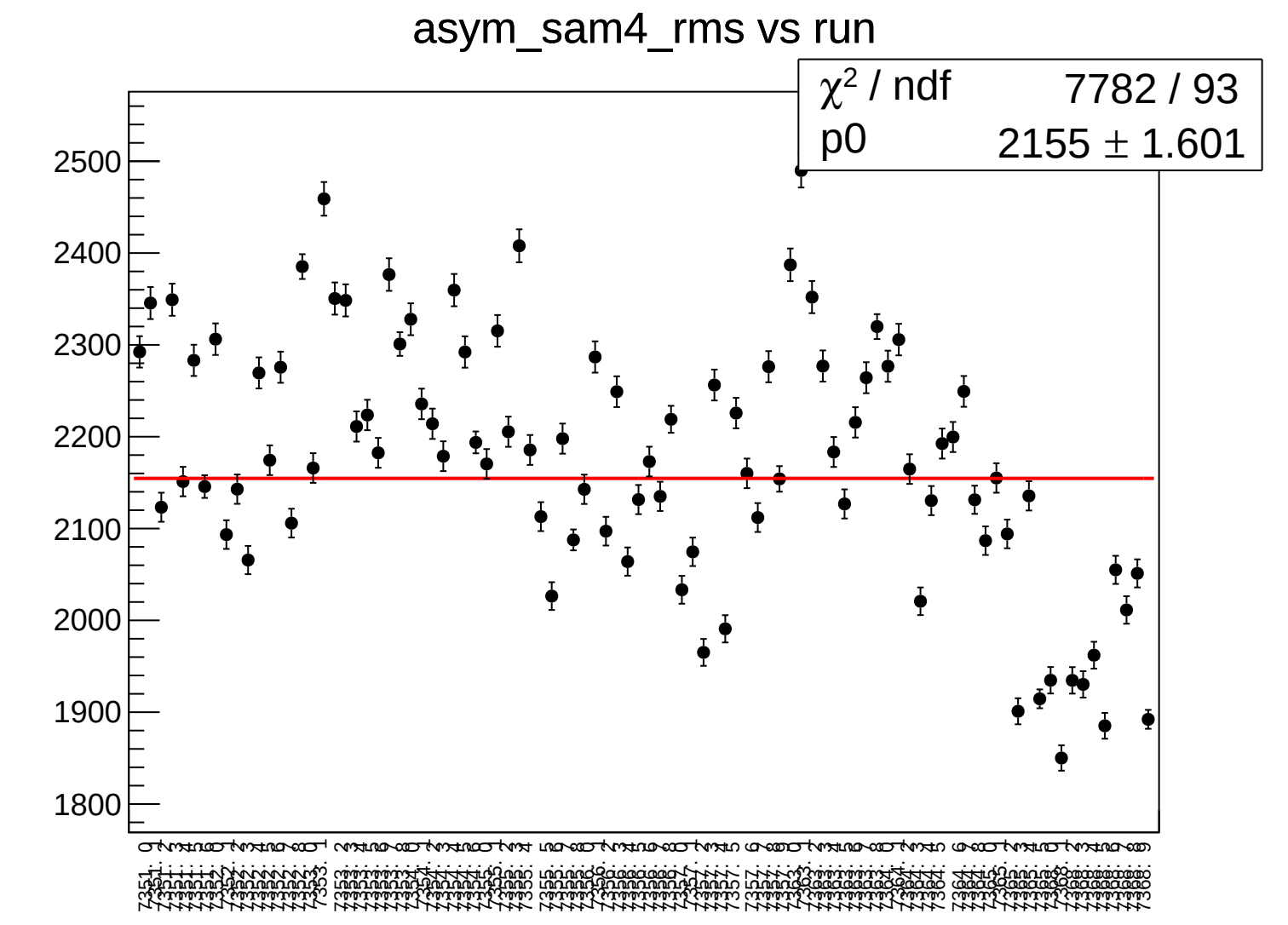

asym_sam4_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 272.2 / 93
p0 2125 ± 2482
150
100
50
0
−50
−100
−150
pull
Entries 94
Mean 4727
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4
−5

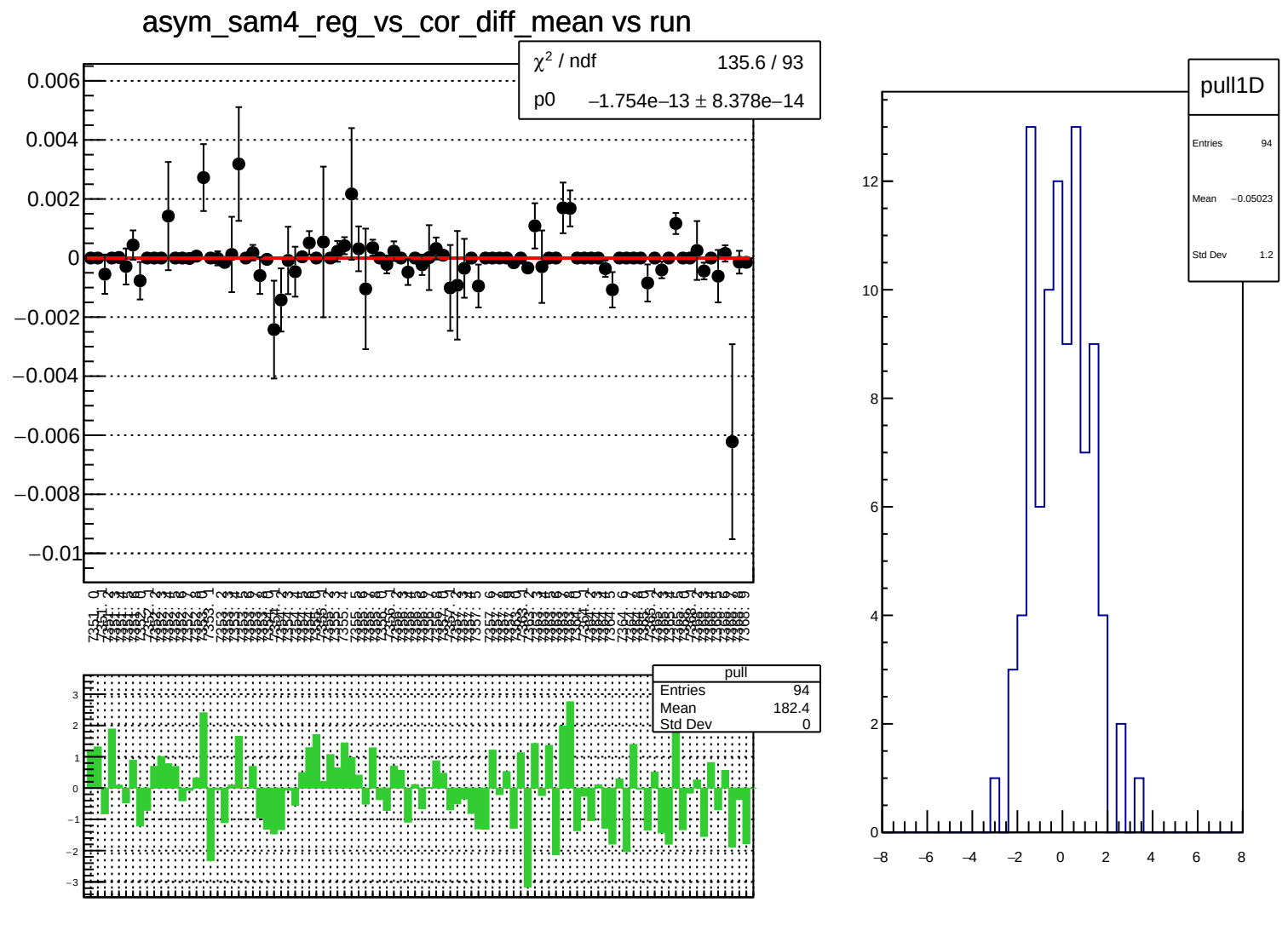

pull1D
Entries 94
Mean −0.00116
Std Dev 1.702
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

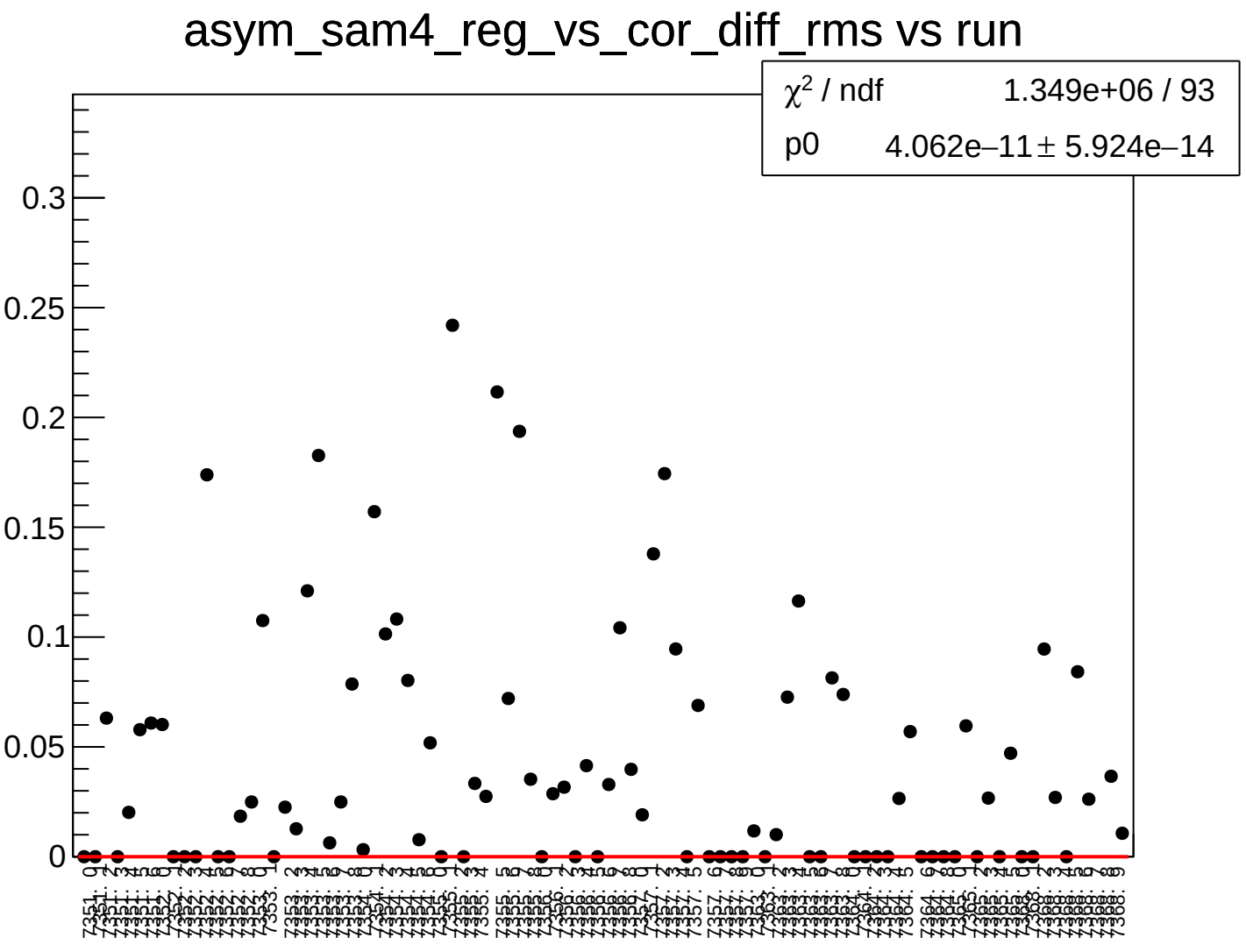

asym_sam4_eigen_dit_correction_rms vs run
χ^2 / ndf 8123 / 93
p0 2362 ± 1.755
2800
2700
2600
2500
2400
2300
2200
2100
2000

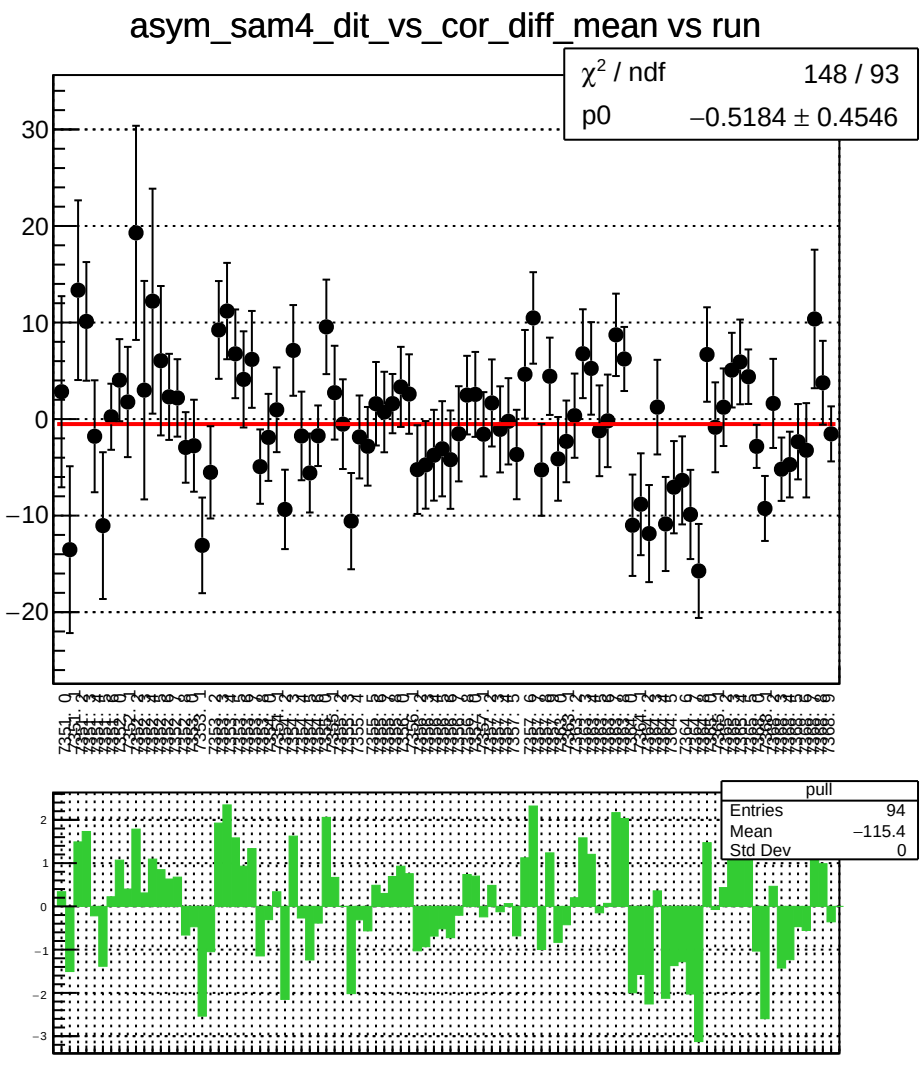

asym_sam4_mean vs run
×10^3
χ^2 / ndf 275.3 / 93
p0 −2501 ± 2264
100
50
0
−50
−100
−150
pull
Entries 94
Mean −1003
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4

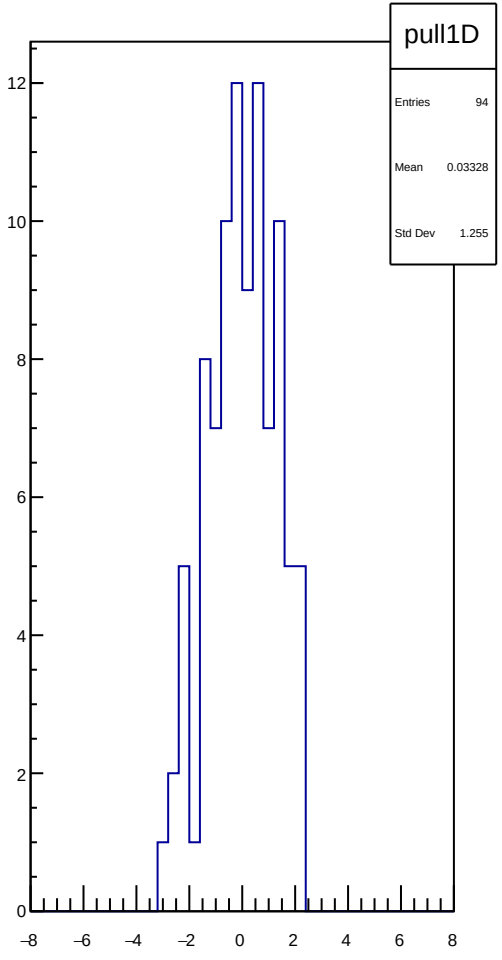

pull1D
Entries 94
Mean −0.004756
Std Dev 1.711
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

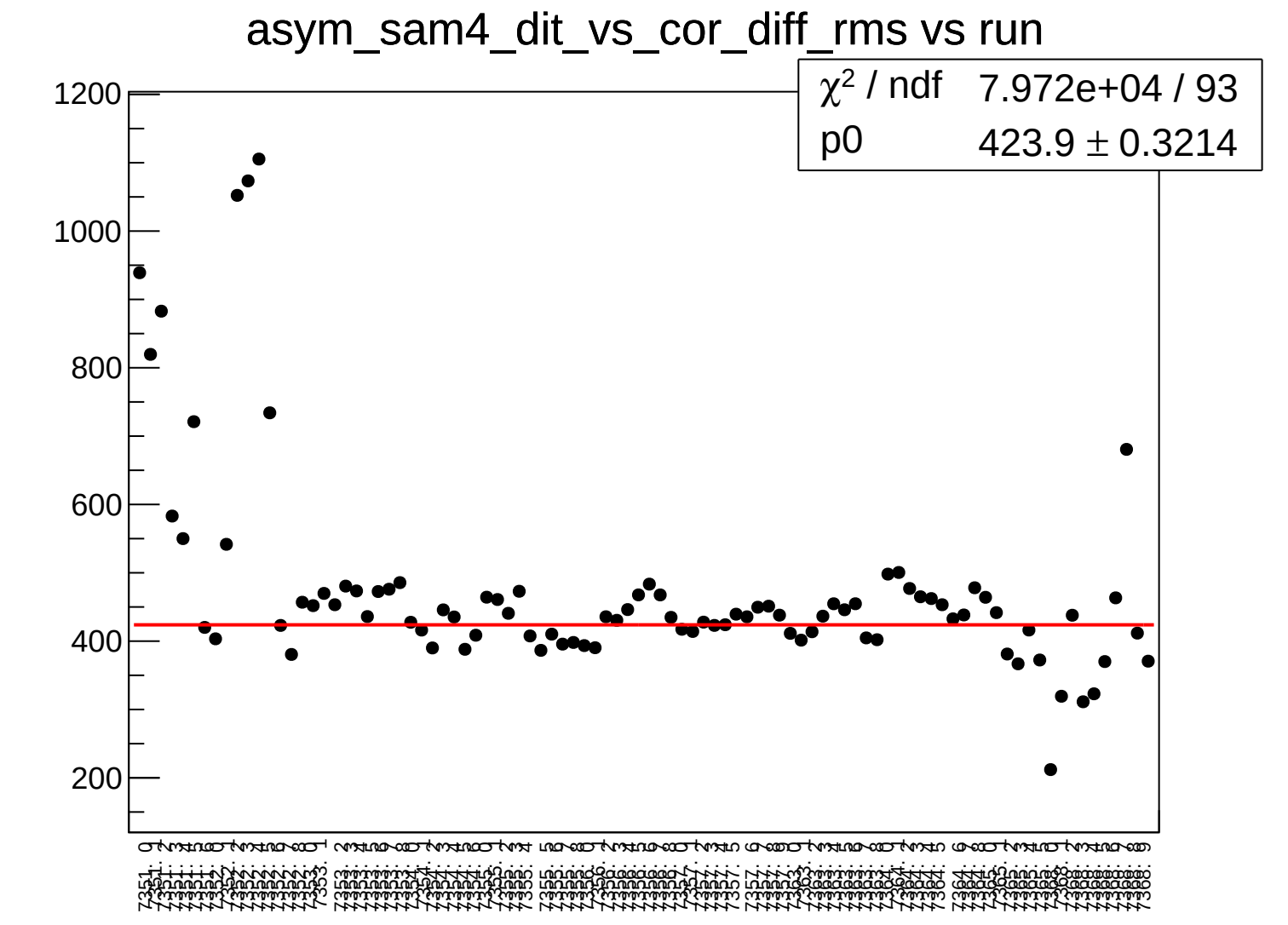

asym_sam4_rms vs run
χ^2 / ndf 7782 / 93
p0 2155 ± 1.601
2500
2400
2300
2200
2100
2000
1900
1800

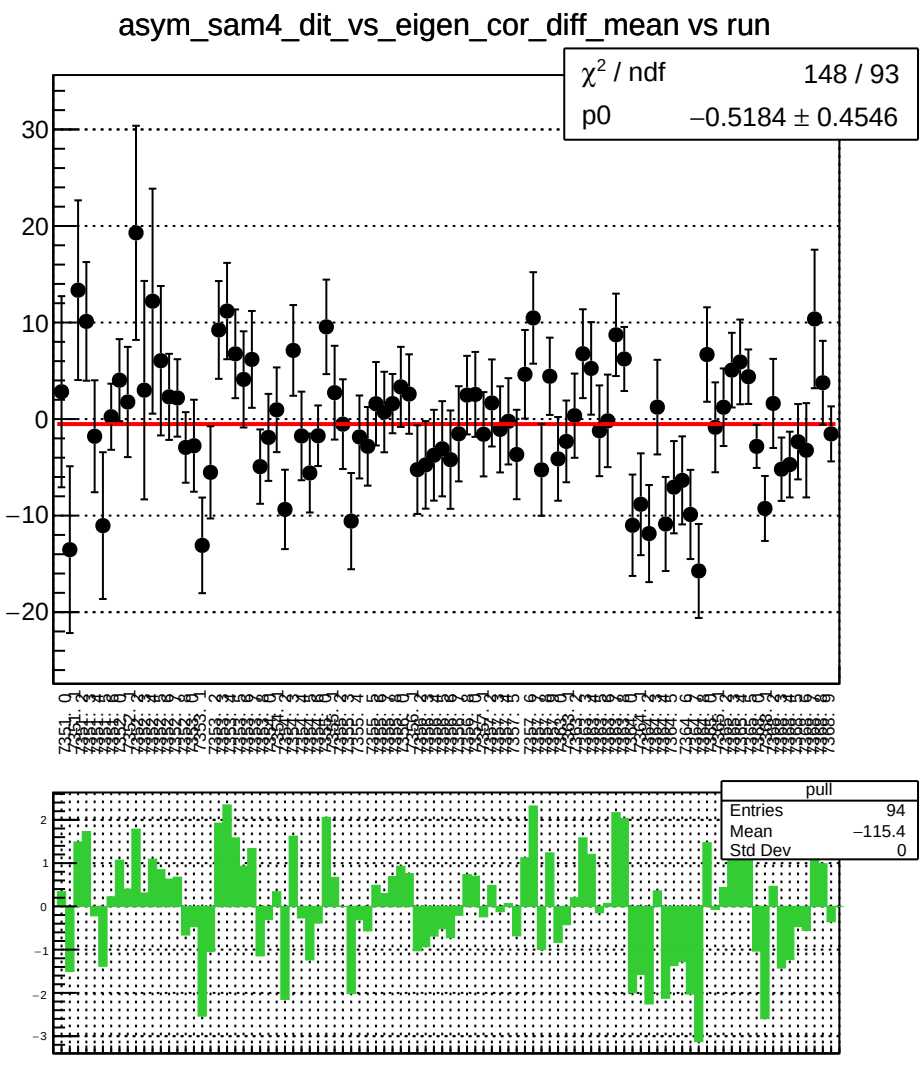

asym_sam4_reg_vs_cor_diff_mean vs run
χ² / ndf 135.6 / 93
p0 −1.754e−13 ± 8.378e−14
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
−0.01
pull
Entries 94
Mean 182.4
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.05023
Std Dev 1.2
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

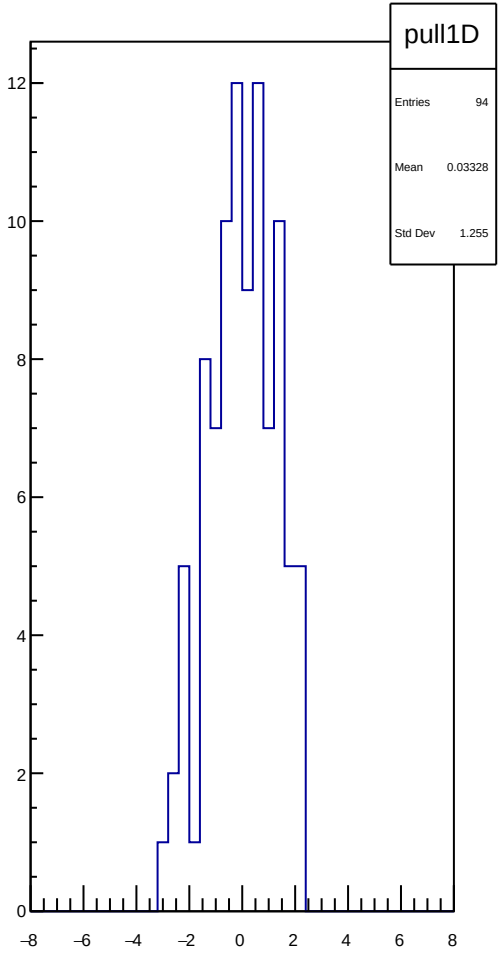

asym_sam4_reg_vs_cor_diff_rms vs run
χ² / ndf 1.349e+06 / 93
p0 4.062e−11 ± 5.924e−14
0.3
0.25
0.2
0.15
0.1
0.05
0

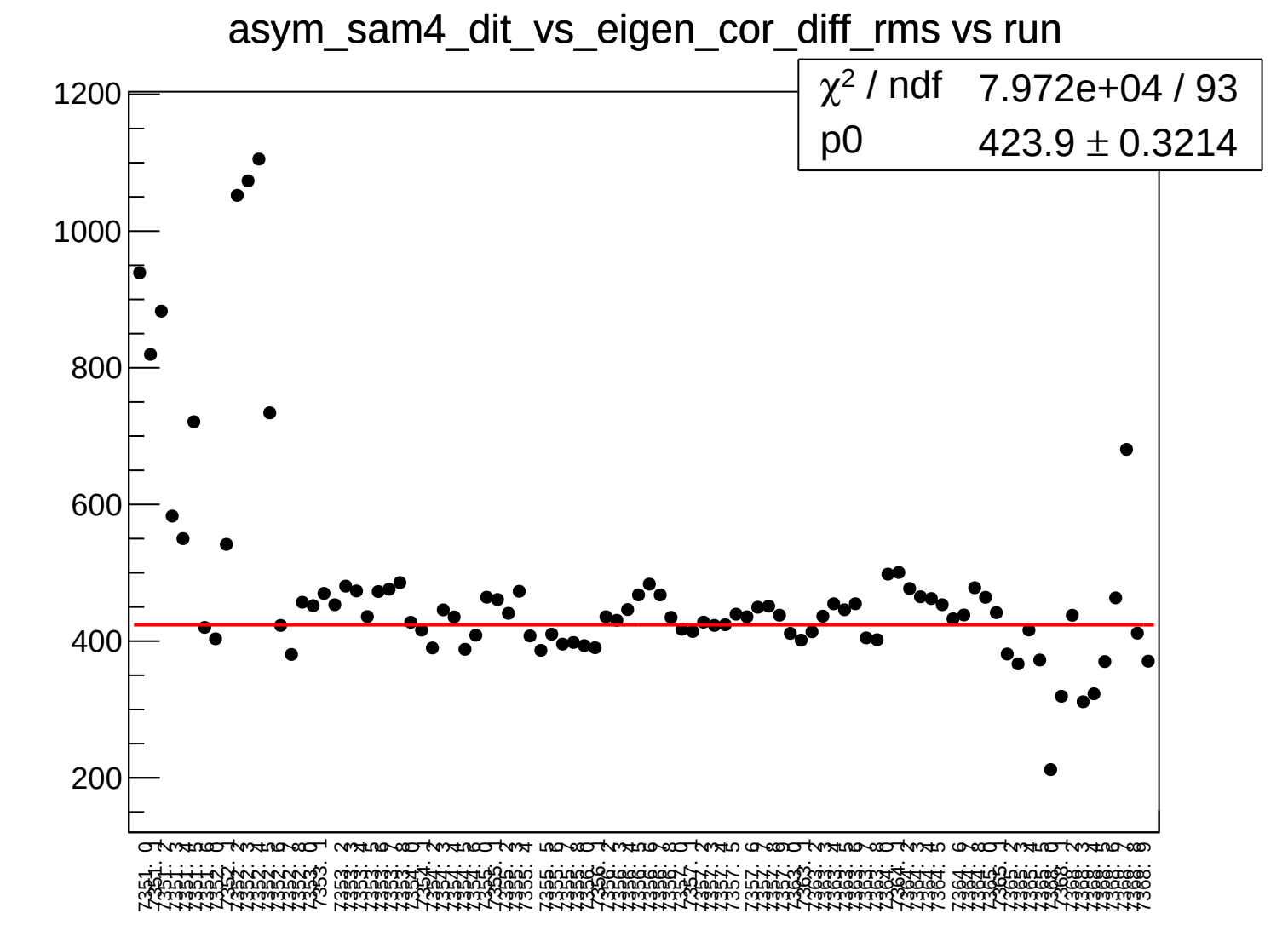

asym_sam4_dit_vs_cor_diff_mean vs run
χ² / ndf 148 / 93
p0 −0.5184 ± 0.4546
pull
Entries 94
Mean −115.4
Std Dev 0

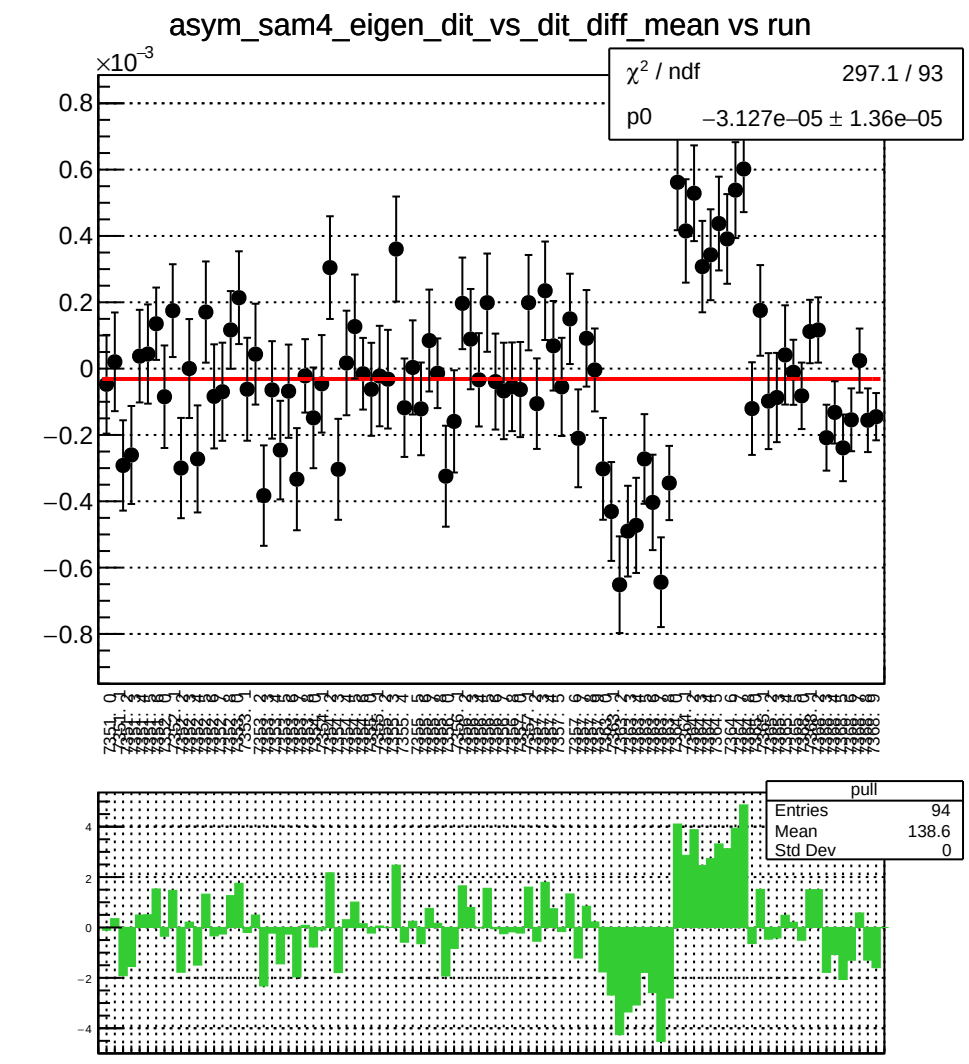

pull1D
Entries 94
Mean 0.03328
Std Dev 1.255

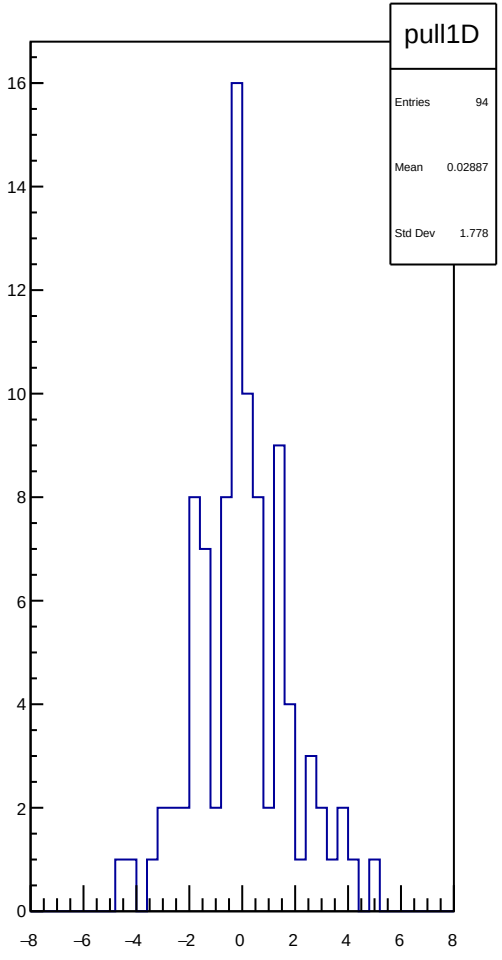

asym_sam4_dit_vs_cor_diff_rms vs run
χ² / ndf 7.972e+04 / 93
p0 423.9 ± 0.3214
1200
1000
800
600
400
200

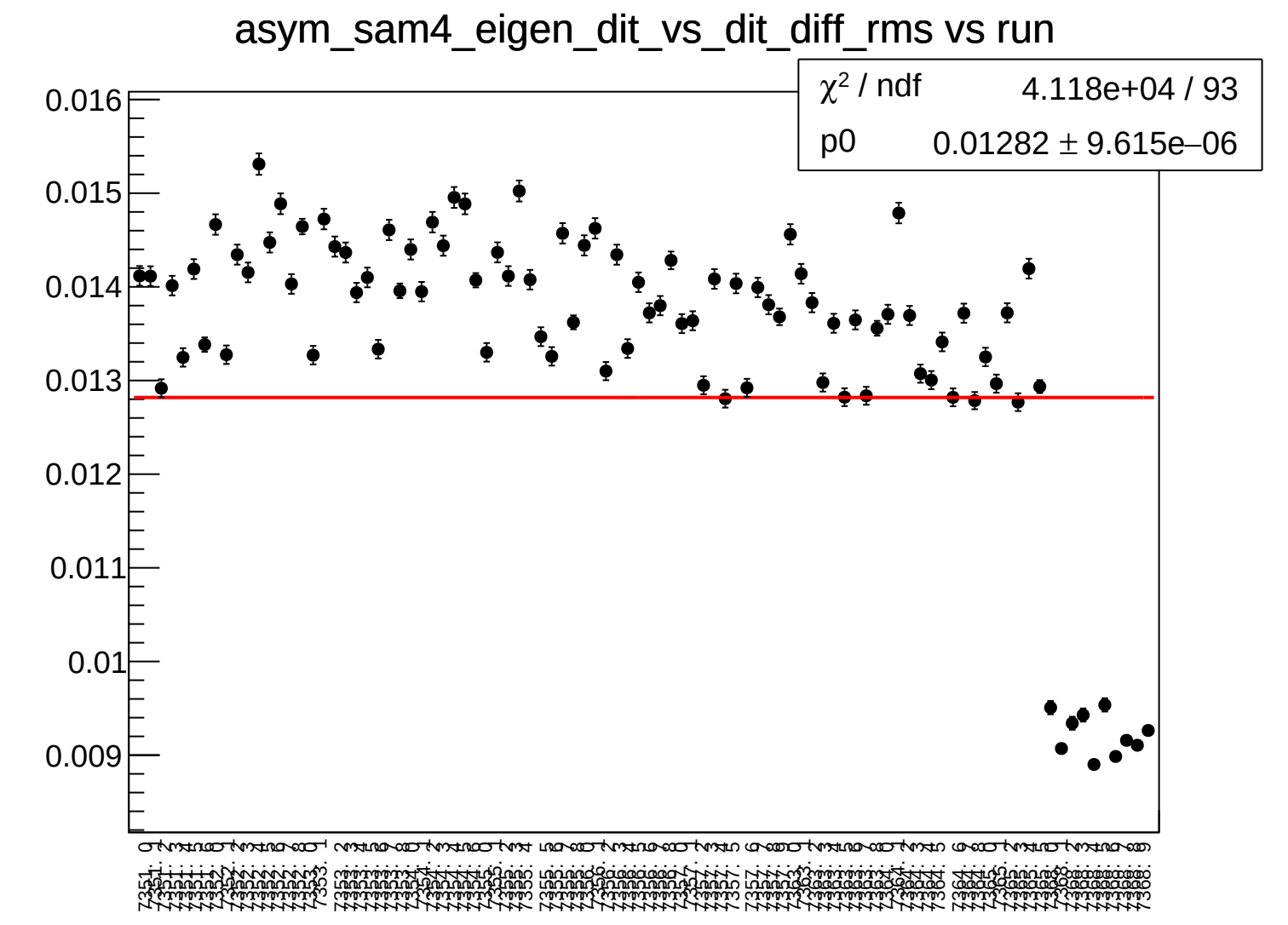

asym_sam4_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 148 / 93
p0 −0.5184 ± 0.4546
pull
Entries 94
Mean −115.4
Std Dev 0

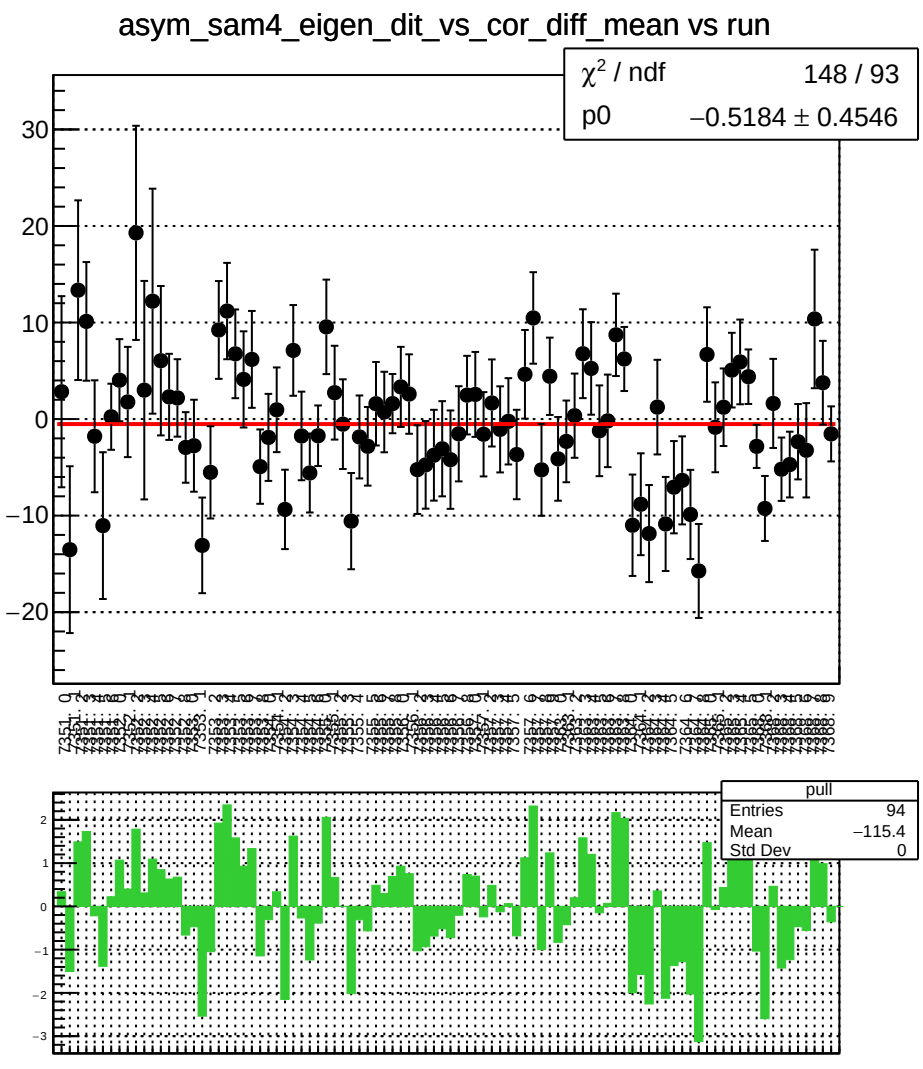

pull1D
Entries 94
Mean 0.03328
Std Dev 1.255

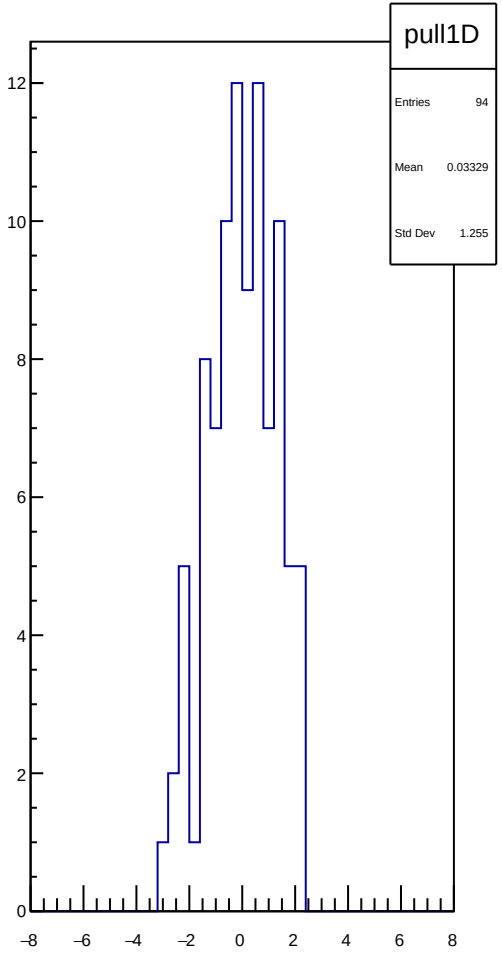

asym_sam4_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.972e+04 / 93
p0 423.9 ± 0.3214
1200
1000
800
600
400
200

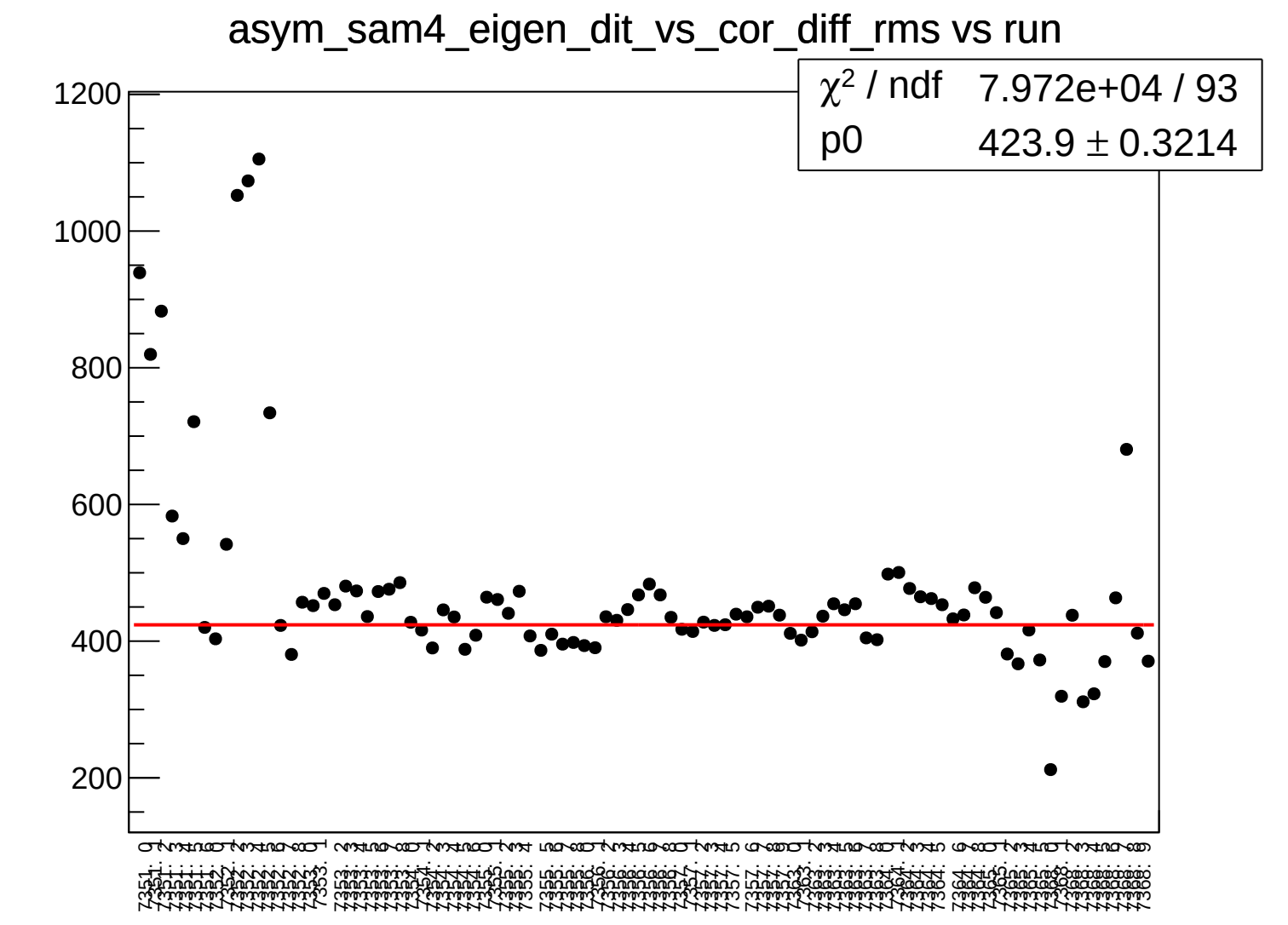

asym_sam4_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 297.1 / 93
p0 −3.127e−05 ± 1.36e−05
pull
Entries 94
Mean 138.6
Std Dev 0

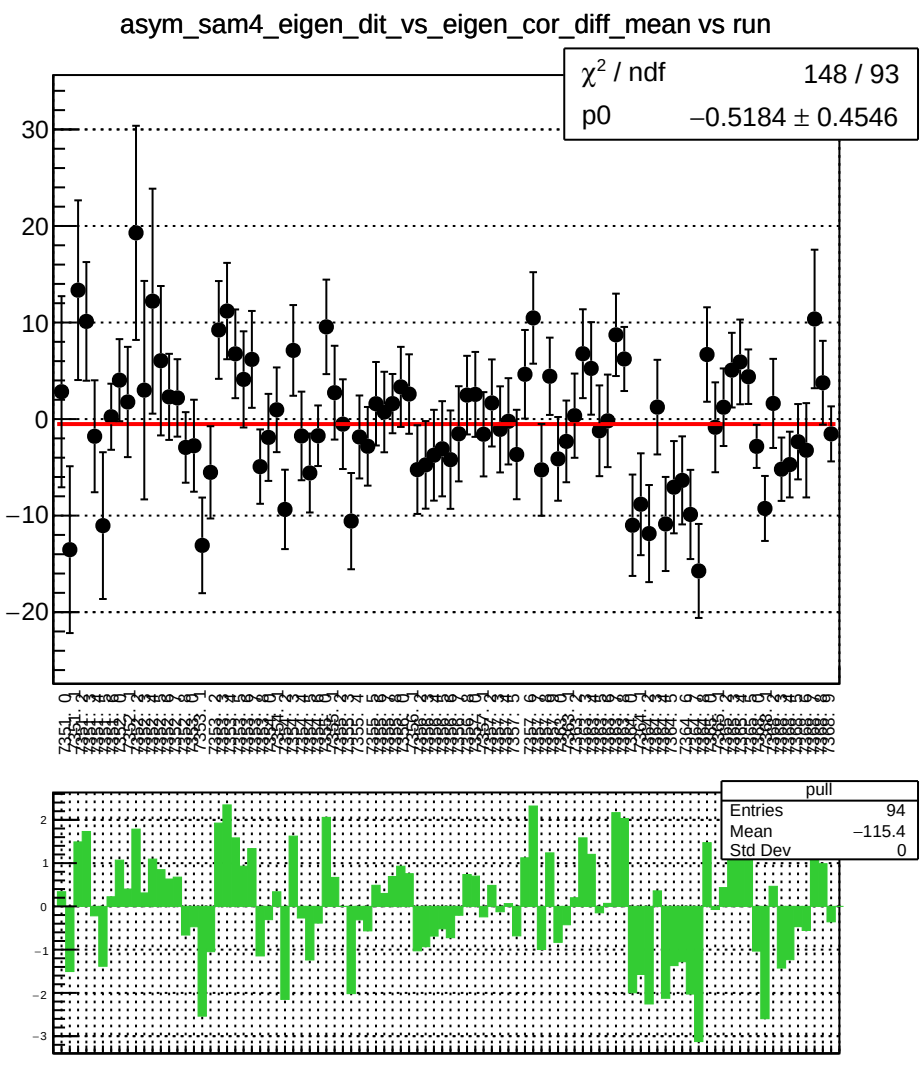

pull1D
Entries 94
Mean 0.02887
Std Dev 1.778

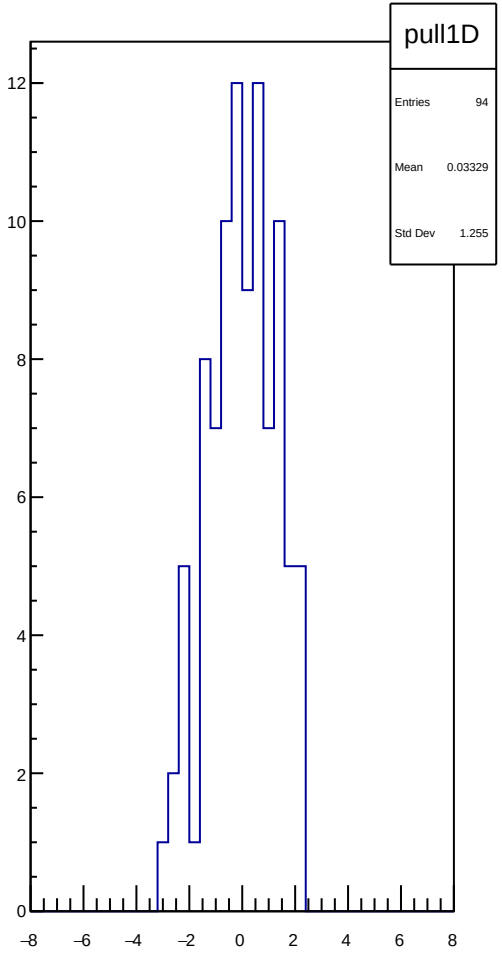

asym_sam4_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.118e+04 / 93
p0 0.01282 ± 9.615e–06
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009

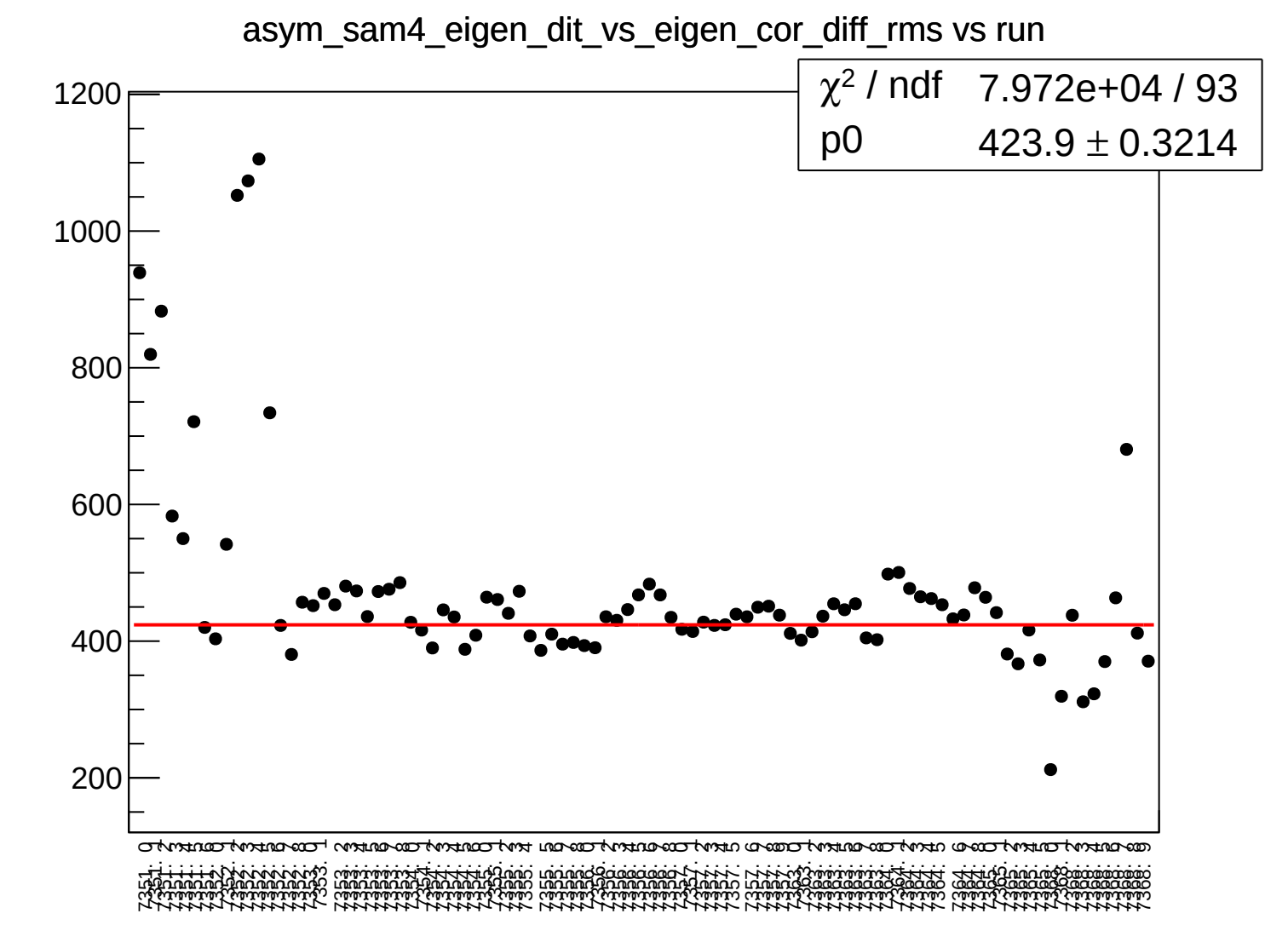

asym_sam4_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 148 / 93
p0 −0.5184 ± 0.4546
pull
Entries 94
Mean −115.4
Std Dev 0

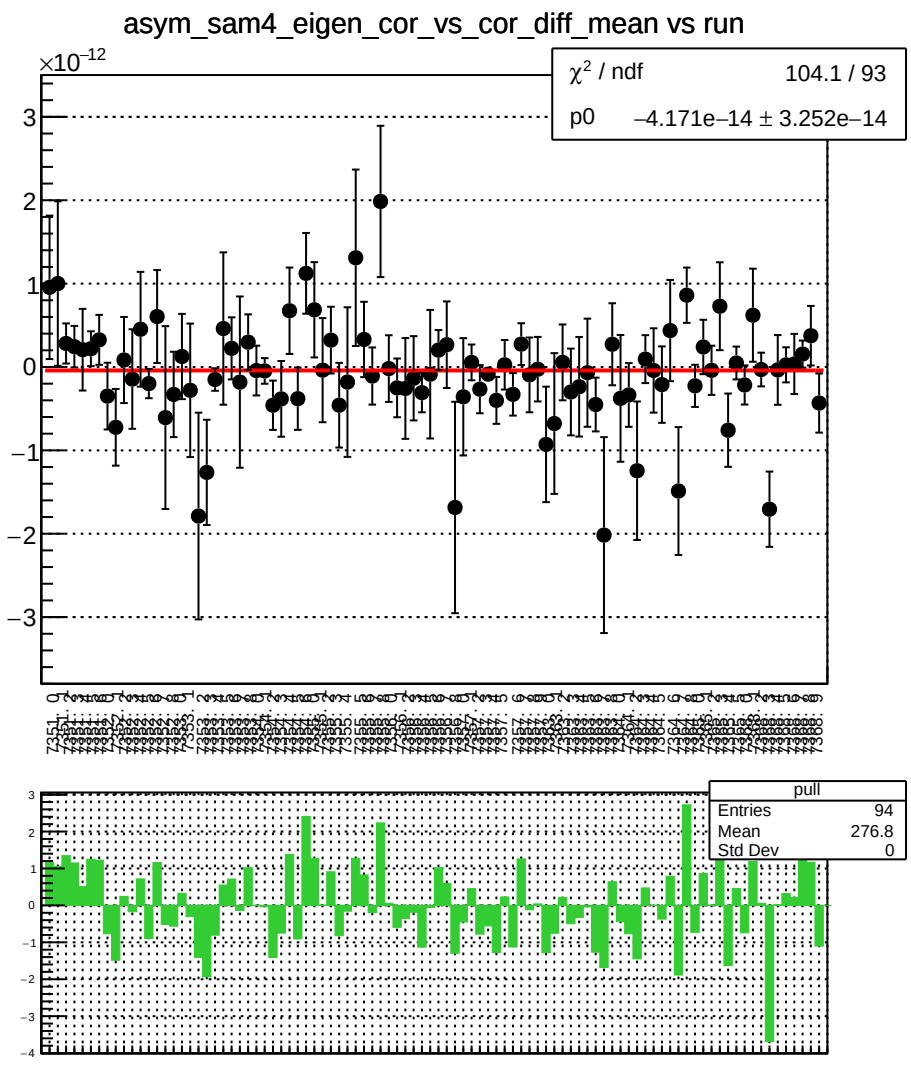

pull1D
Entries 94
Mean 0.03329
Std Dev 1.255

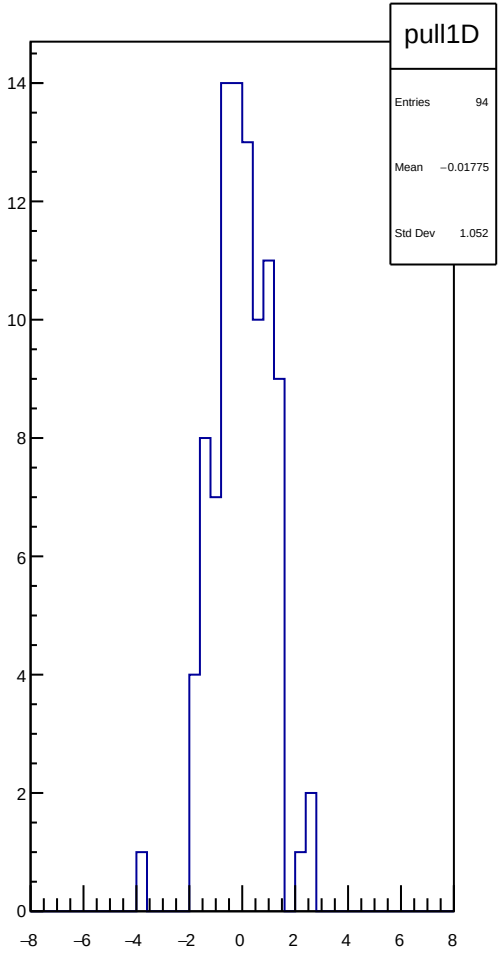

asym_sam4_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.972e+04 / 93
p0 423.9 ± 0.3214
1200
1000
800
600
400
200

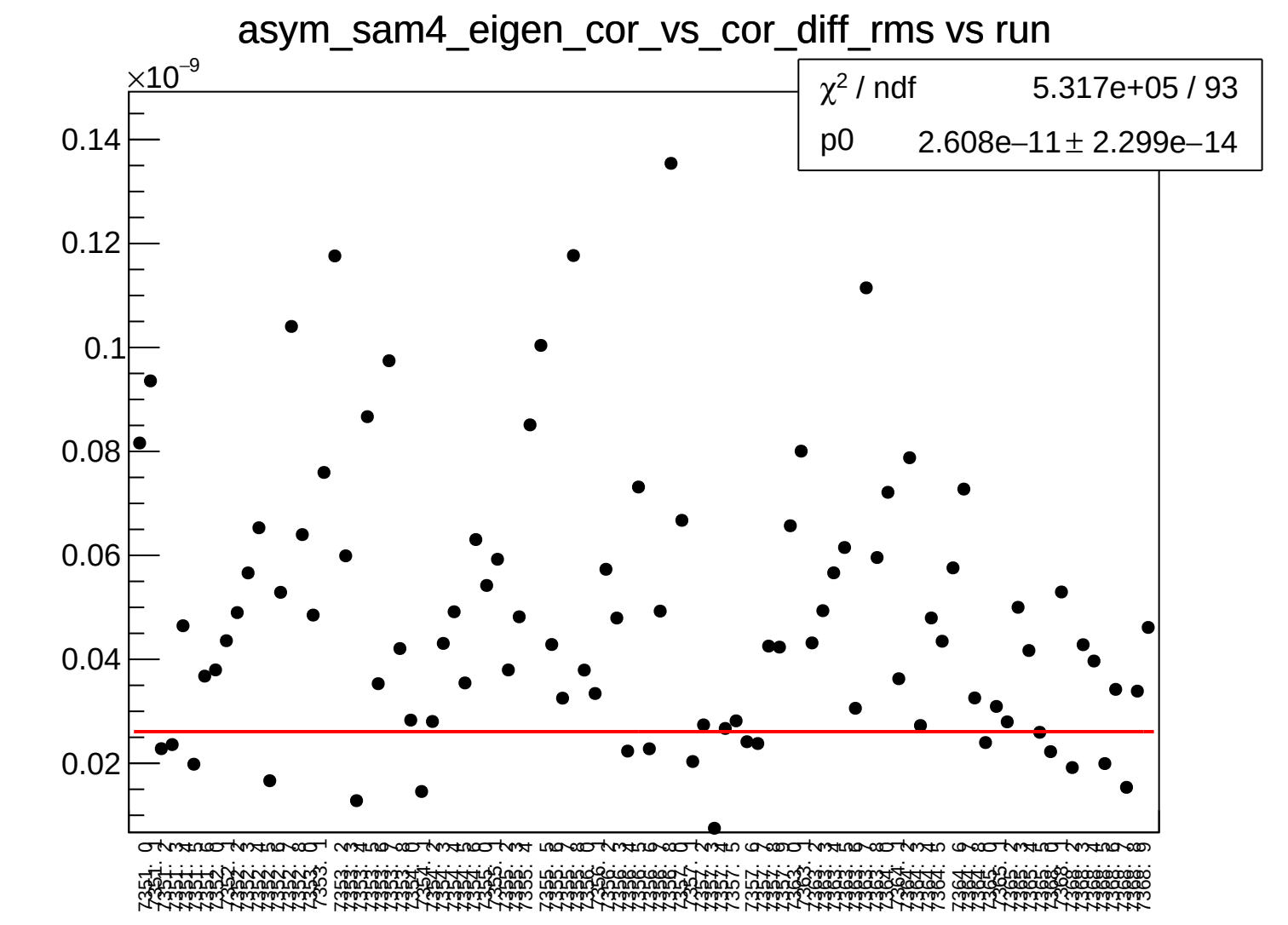

asym_sam4_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 148 / 93
p0 −0.5184 ± 0.4546
pull
Entries 94
Mean −115.4
Std Dev 0

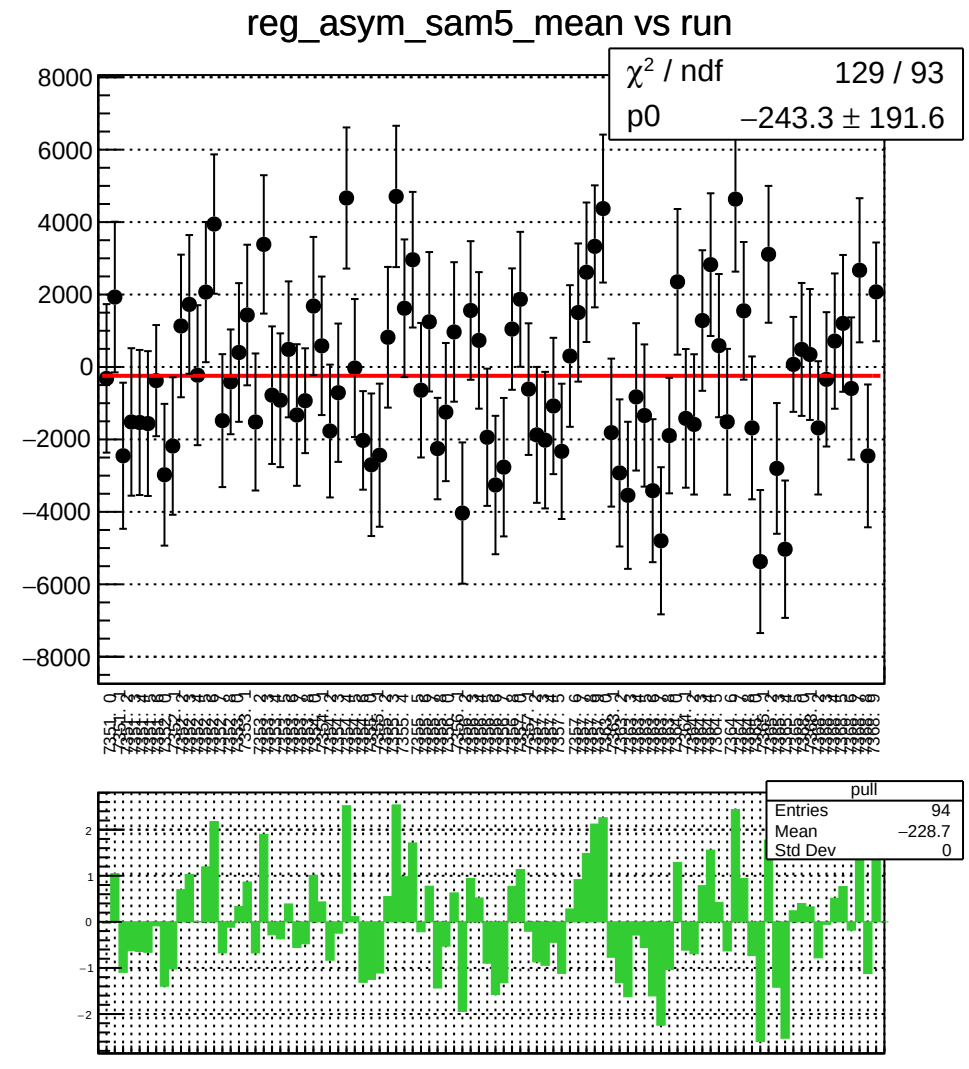

pull1D
Entries 94
Mean 0.03329
Std Dev 1.255

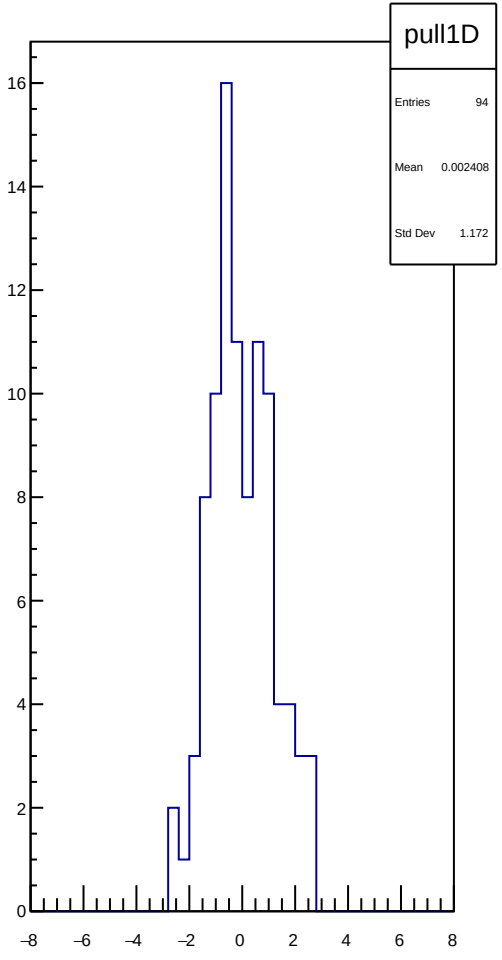

asym_sam4_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.972e+04 / 93
p0 423.9 ± 0.3214
1200
1000
800
600
400
200

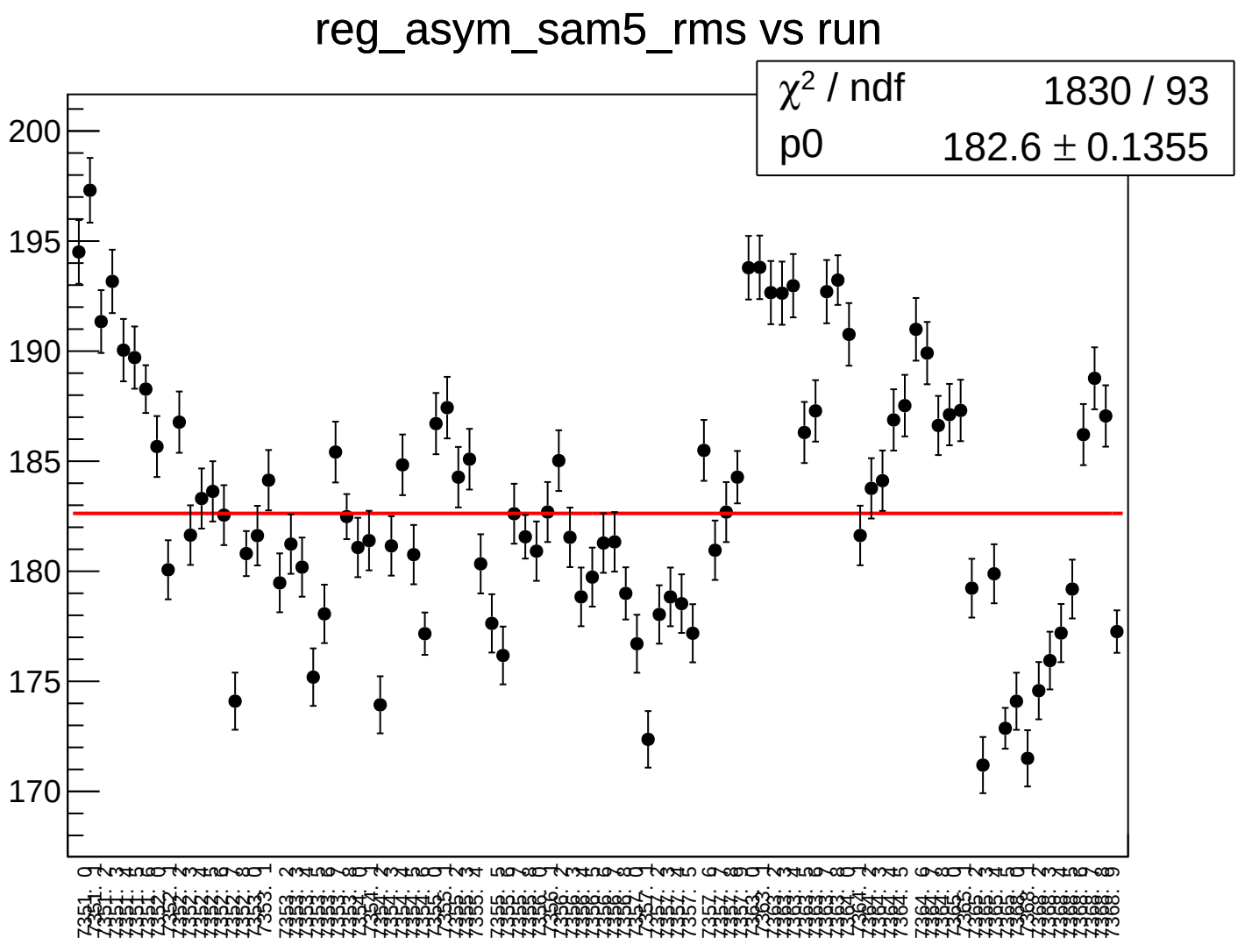

asym_sam4_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 104.1 / 93
p0 −4.171e−14 ± 3.252e−14
pull
Entries 94
Mean 276.8
Std Dev 0

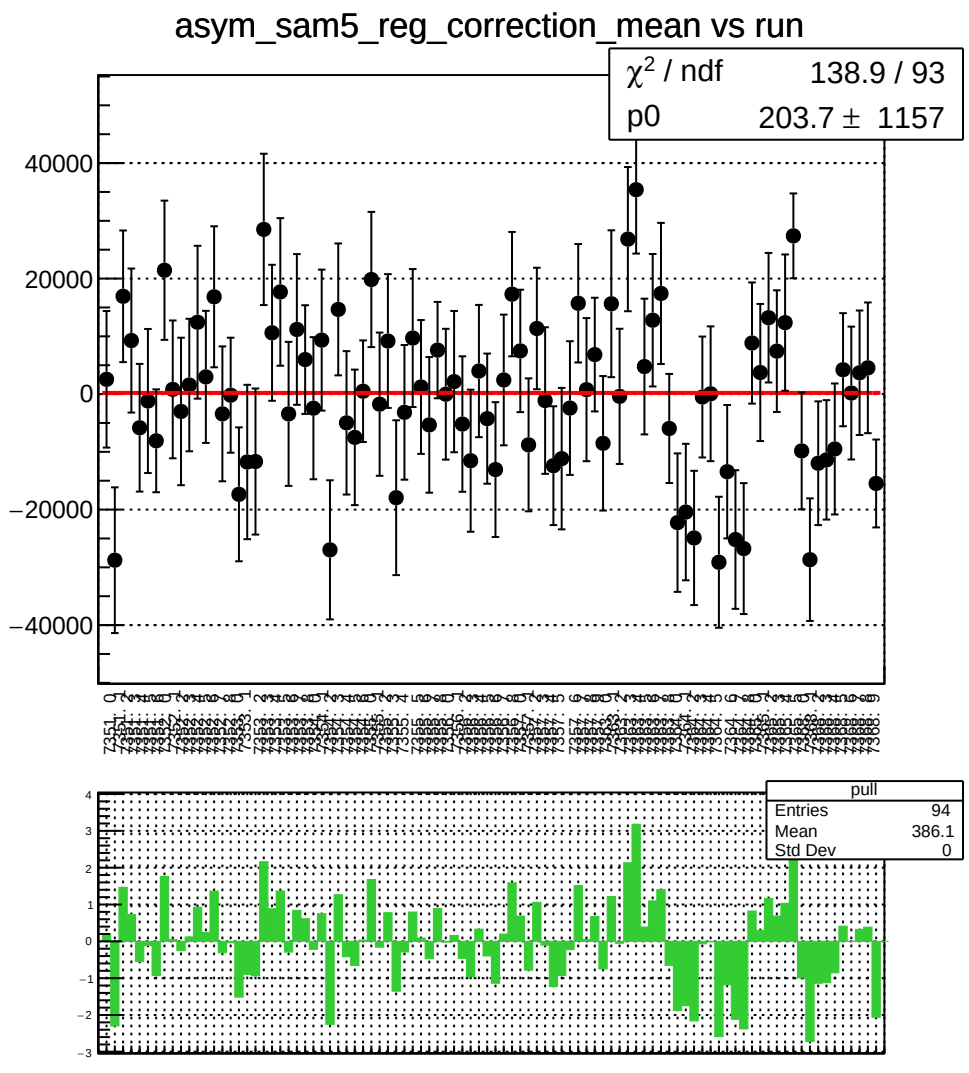

pull1D
Entries 94
Mean −0.01775
Std Dev 1.052

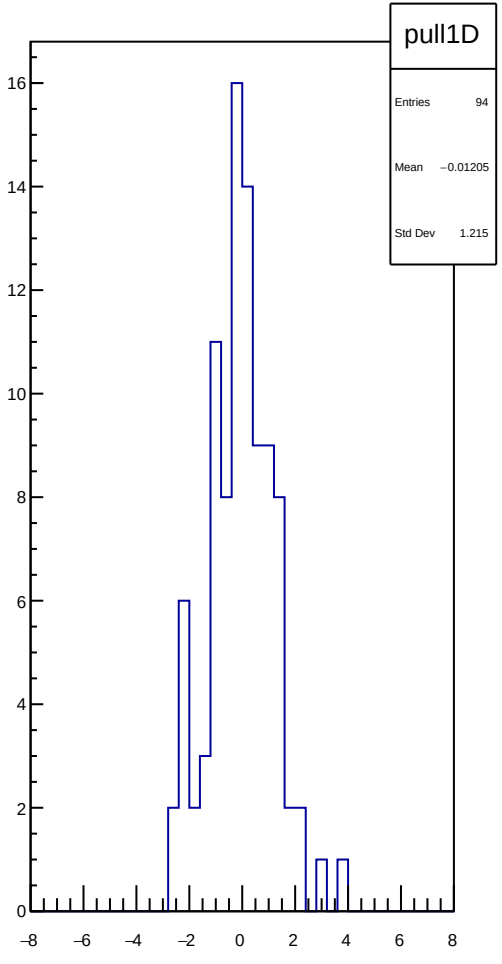

asym_sam4_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.317e+05 / 93
p0 2.608e−11 ± 2.299e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

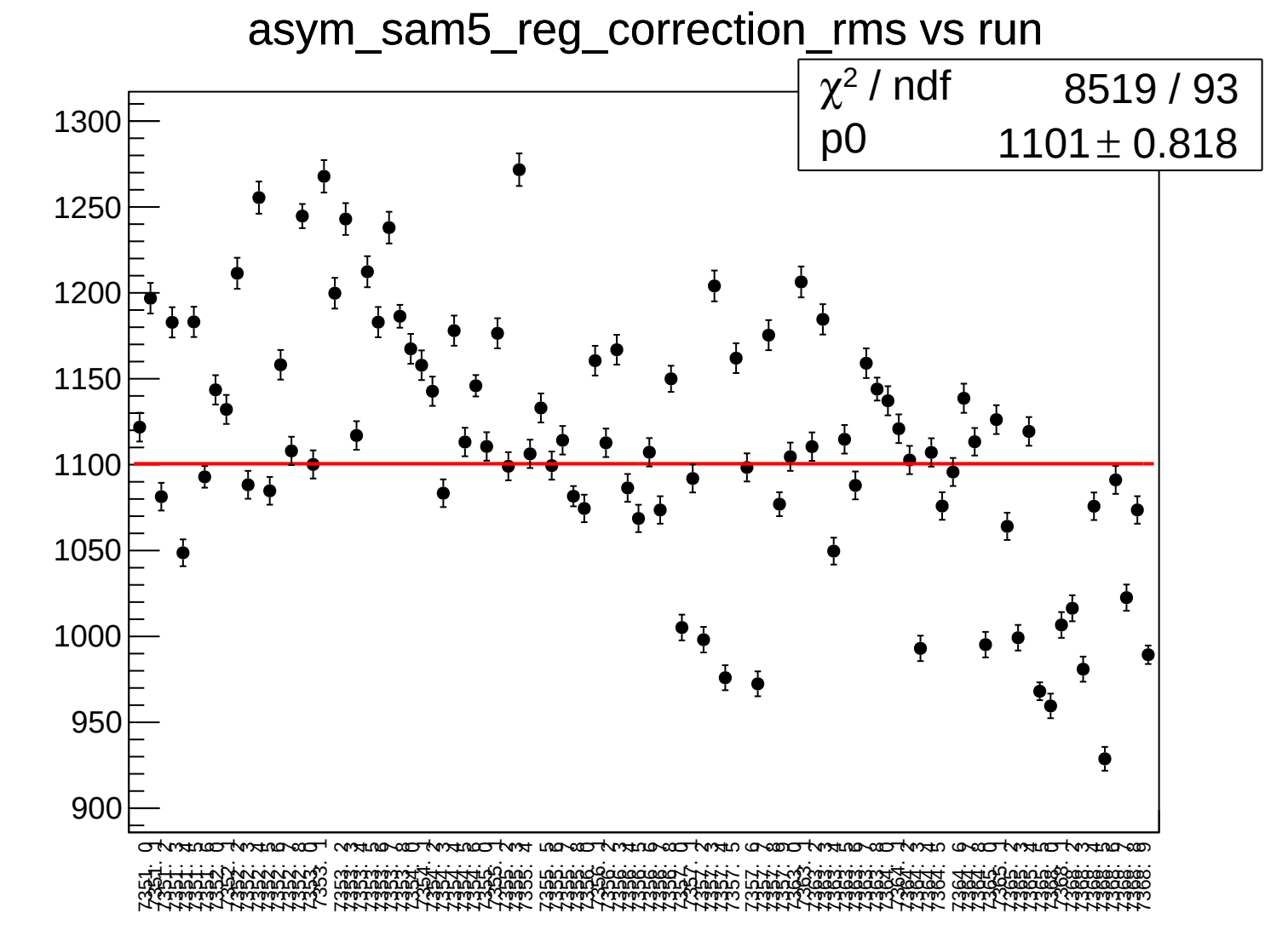

reg_asym_sam5_mean vs run
χ² / ndf 129 / 93
p0 −243.3 ± 191.6
pull
Entries 94
Mean −228.7
Std Dev 0

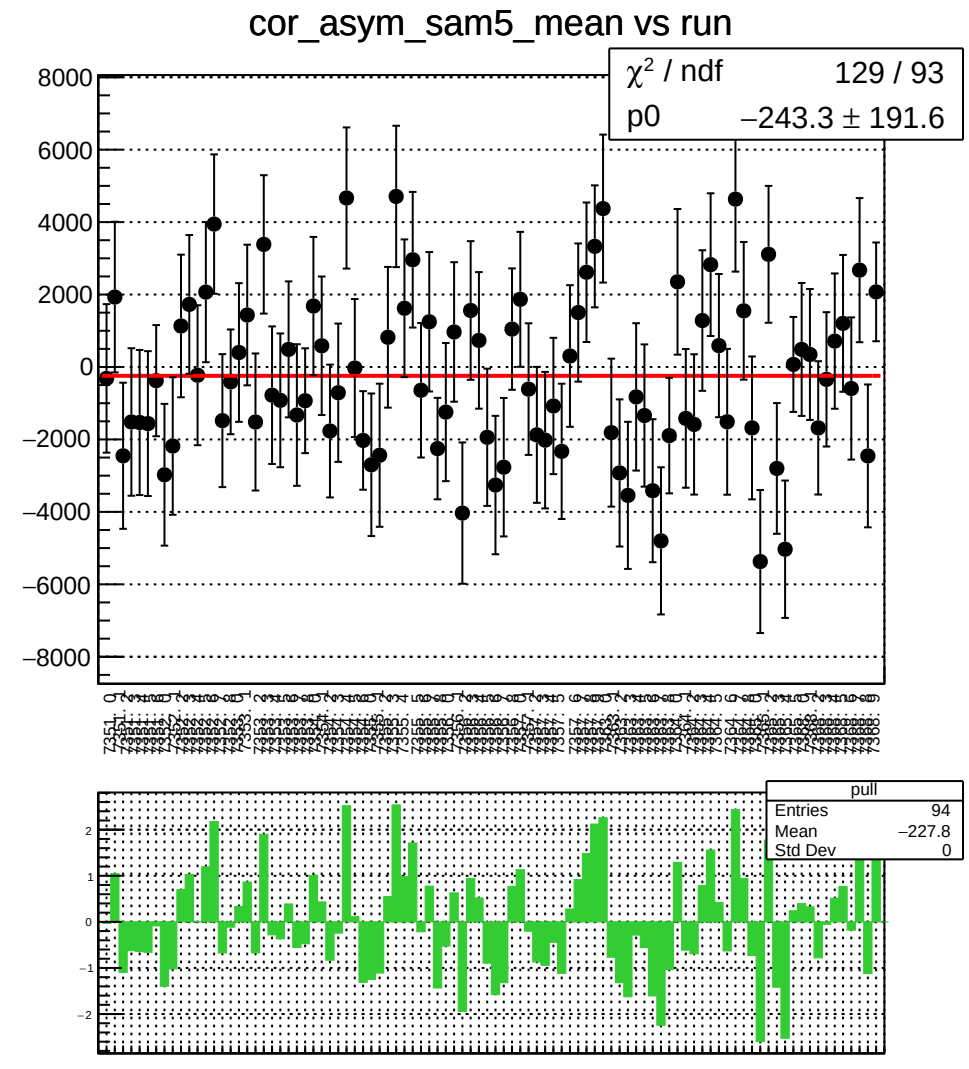

pull1D
Entries 94
Mean 0.002408
Std Dev 1.172

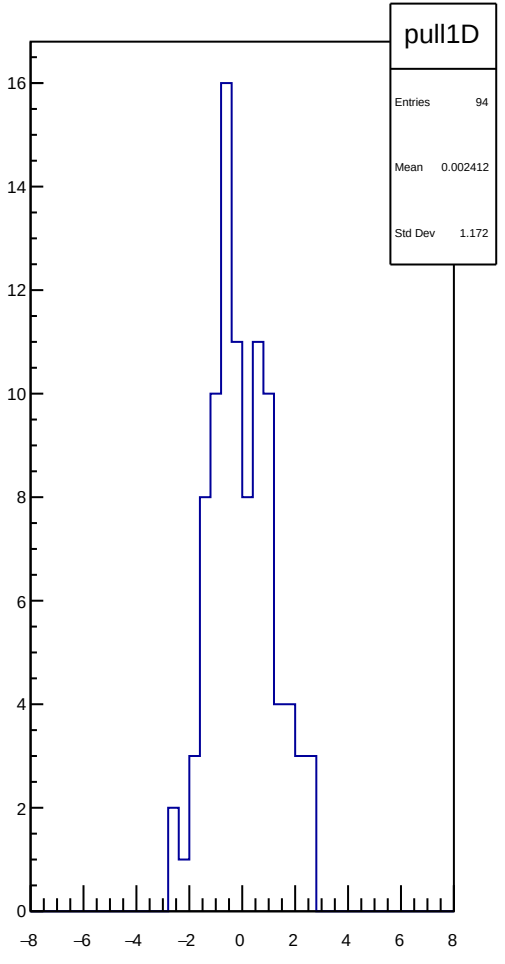

reg_asym_sam5_rms vs run
χ² / ndf 1830 / 93
p0 182.6 ± 0.1355
200
195
190
185
180
175
170

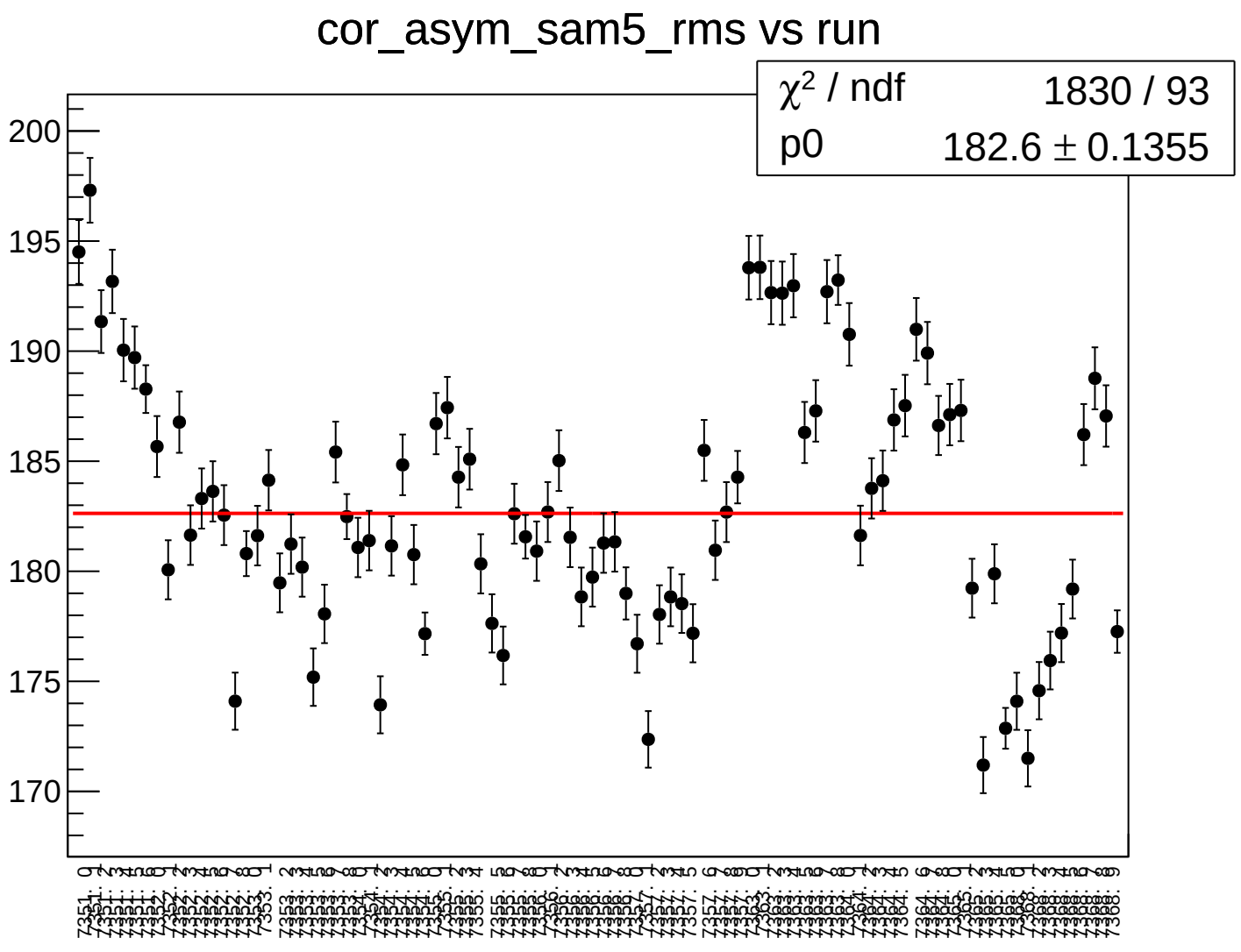

asym_sam5_reg_correction_mean vs run
χ² / ndf 138.9 / 93
p0 203.7 ± 1157
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 386.1
Std Dev 0
4
3
2
1
0
−1
−2
−3

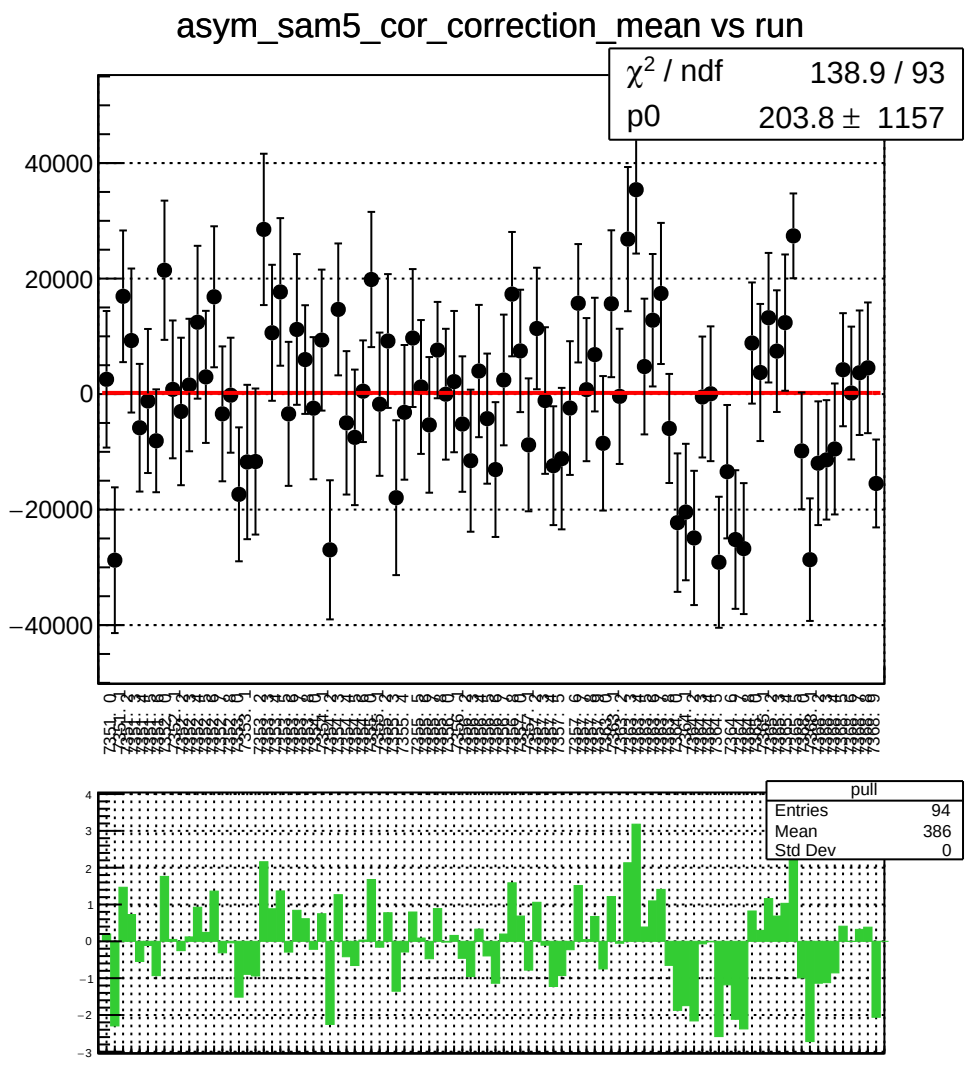

pull1D
Entries 94
Mean −0.01205
Std Dev 1.215
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

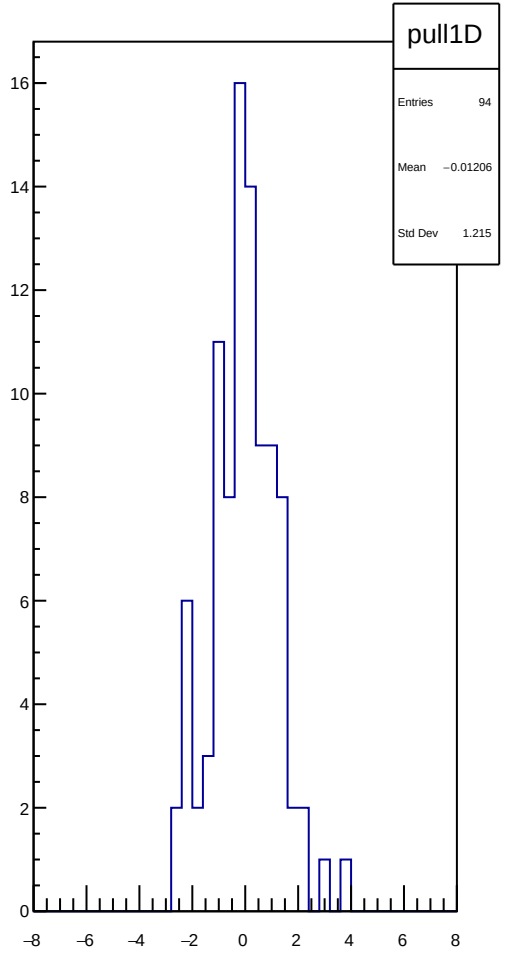

asym_sam5_reg_correction_rms vs run
χ² / ndf 8519 / 93
p0 1101 ± 0.818
1300
1250
1200
1150
1100
1050
1000
950
900

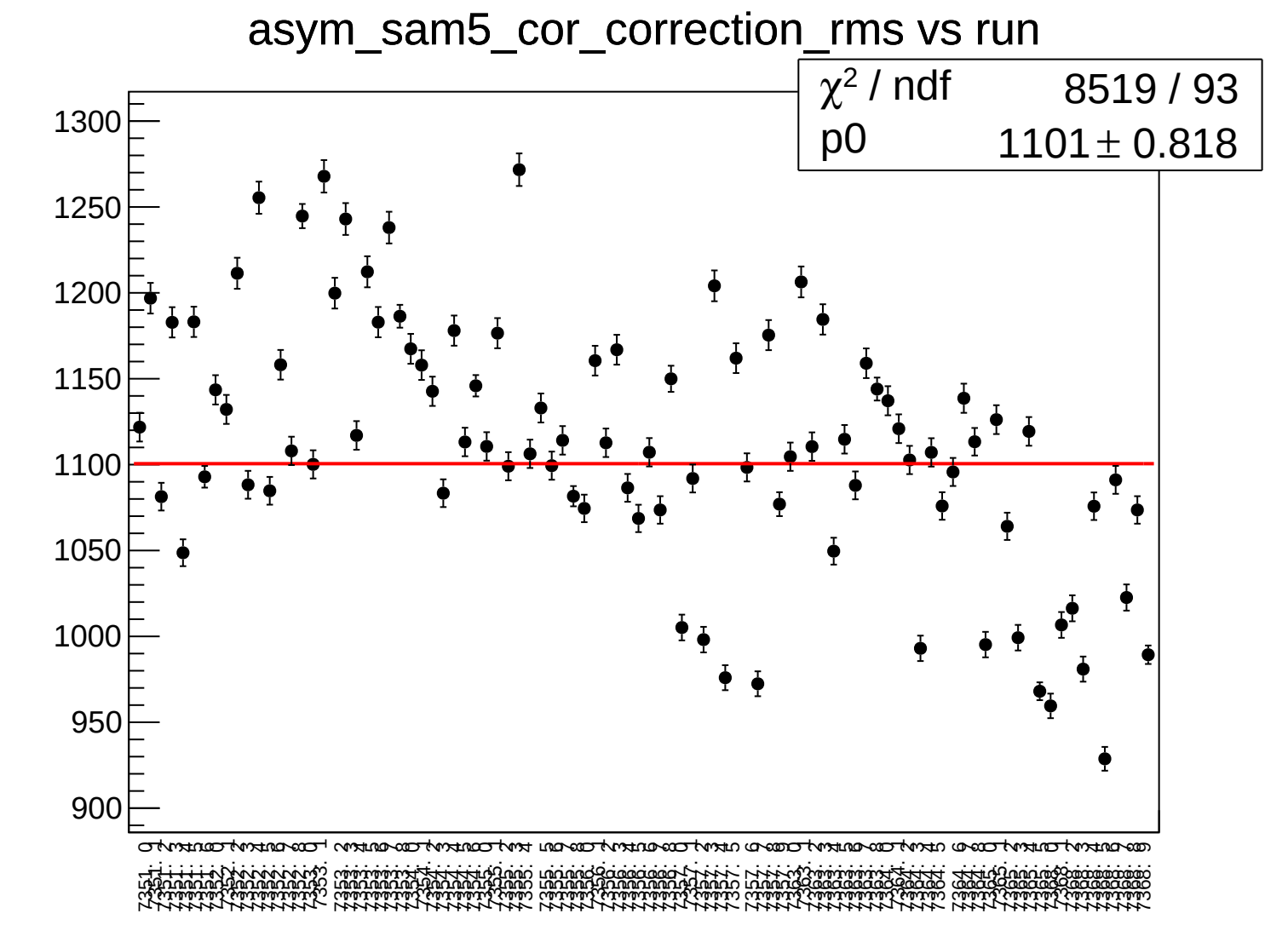

cor_asym_sam5_mean vs run
χ² / ndf 129 / 93
p0 −243.3 ± 191.6
pull
Entries 94
Mean −227.8
Std Dev 0

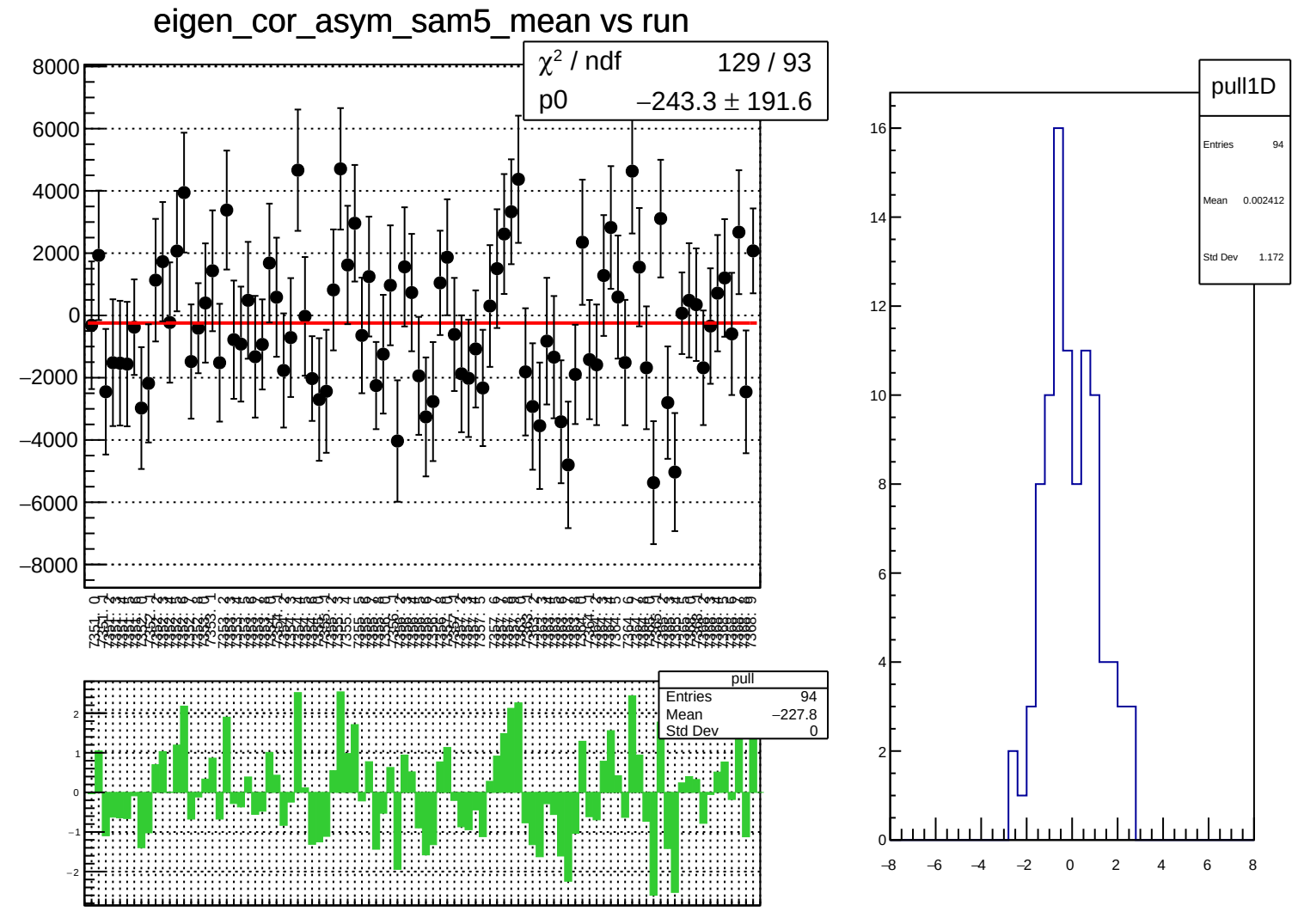

pull1D
Entries 94
Mean 0.002412
Std Dev 1.172

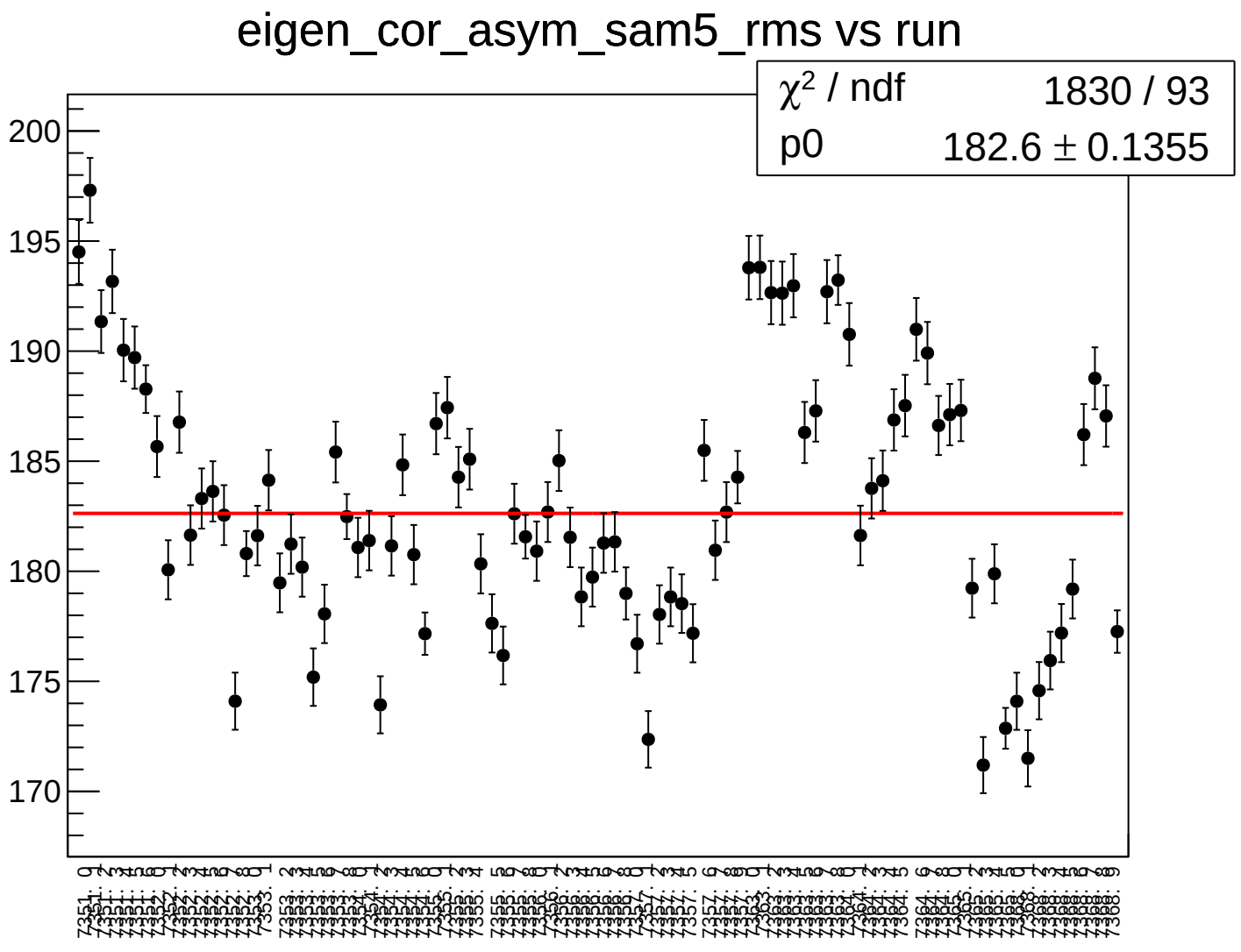

cor_asym_sam5_rms vs run
χ^2 / ndf 1830 / 93
p0 182.6 ± 0.1355
200
195
190
185
180
175
170

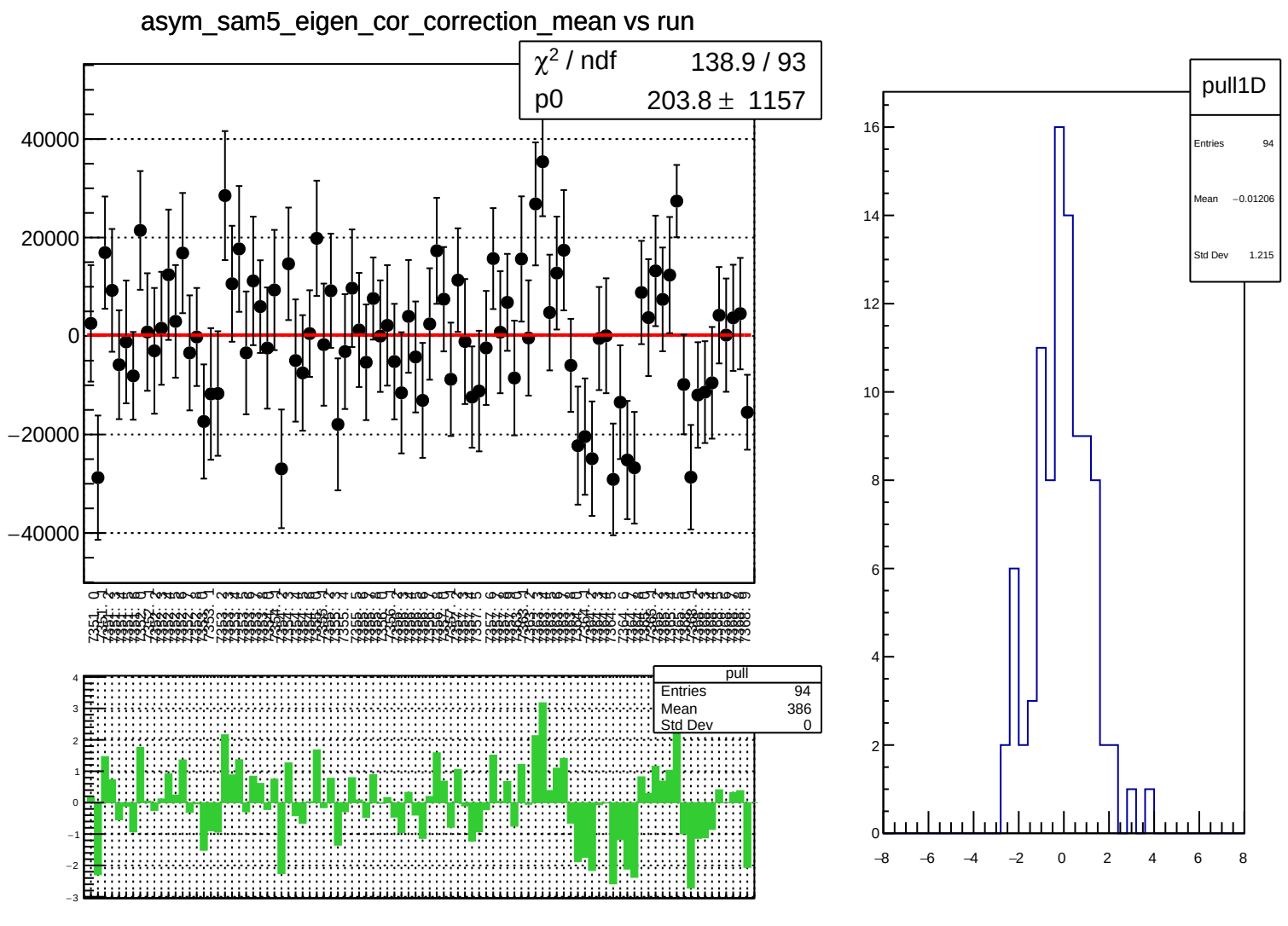

asym_sam5_cor_correction_mean vs run
χ² / ndf 138.9 / 93
p0 203.8 ± 1157
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 386
Std Dev 0
4
3
2
1
0
−1
−2
−3

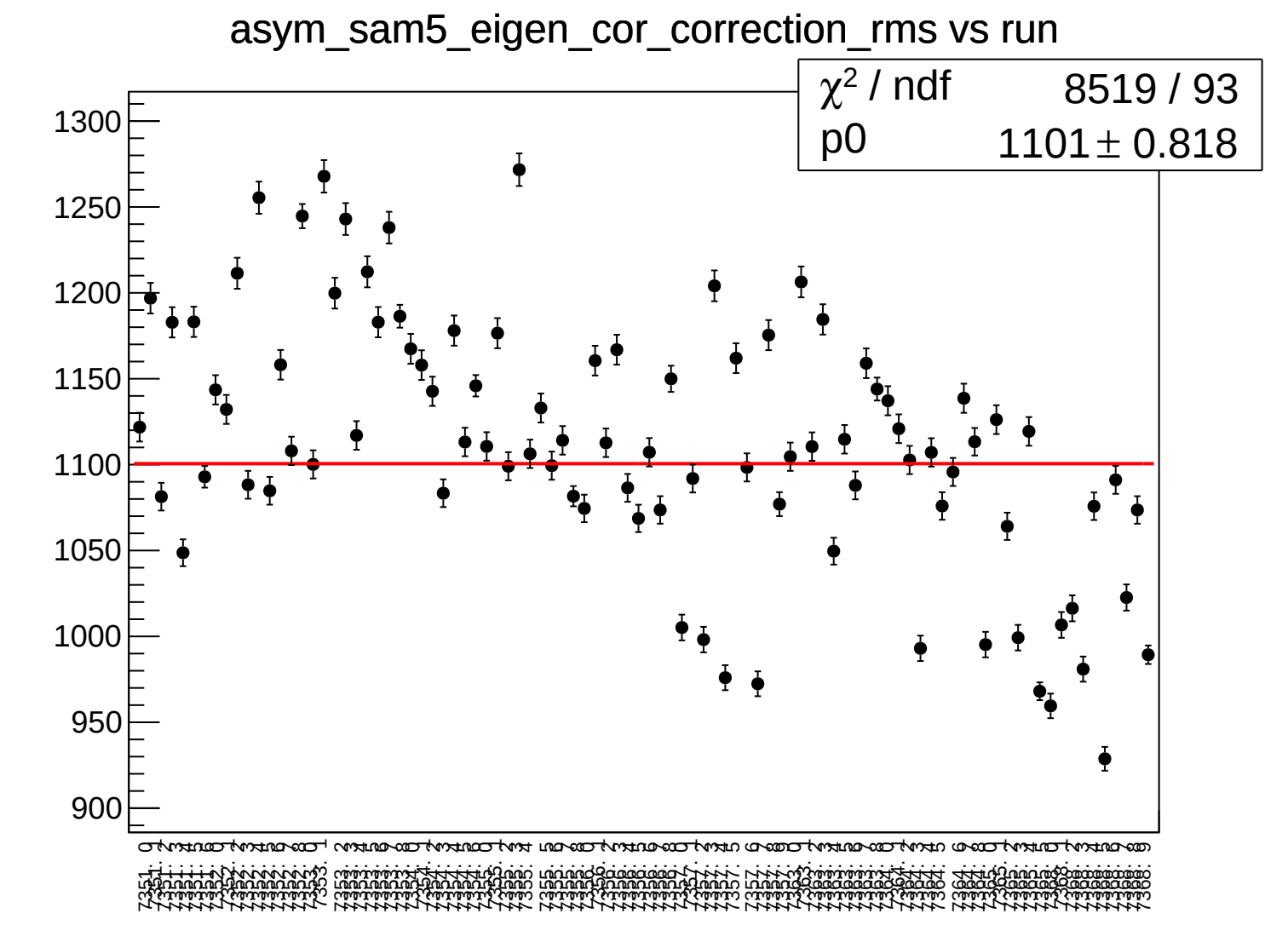

pull1D
Entries 94
Mean −0.01206
Std Dev 1.215
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

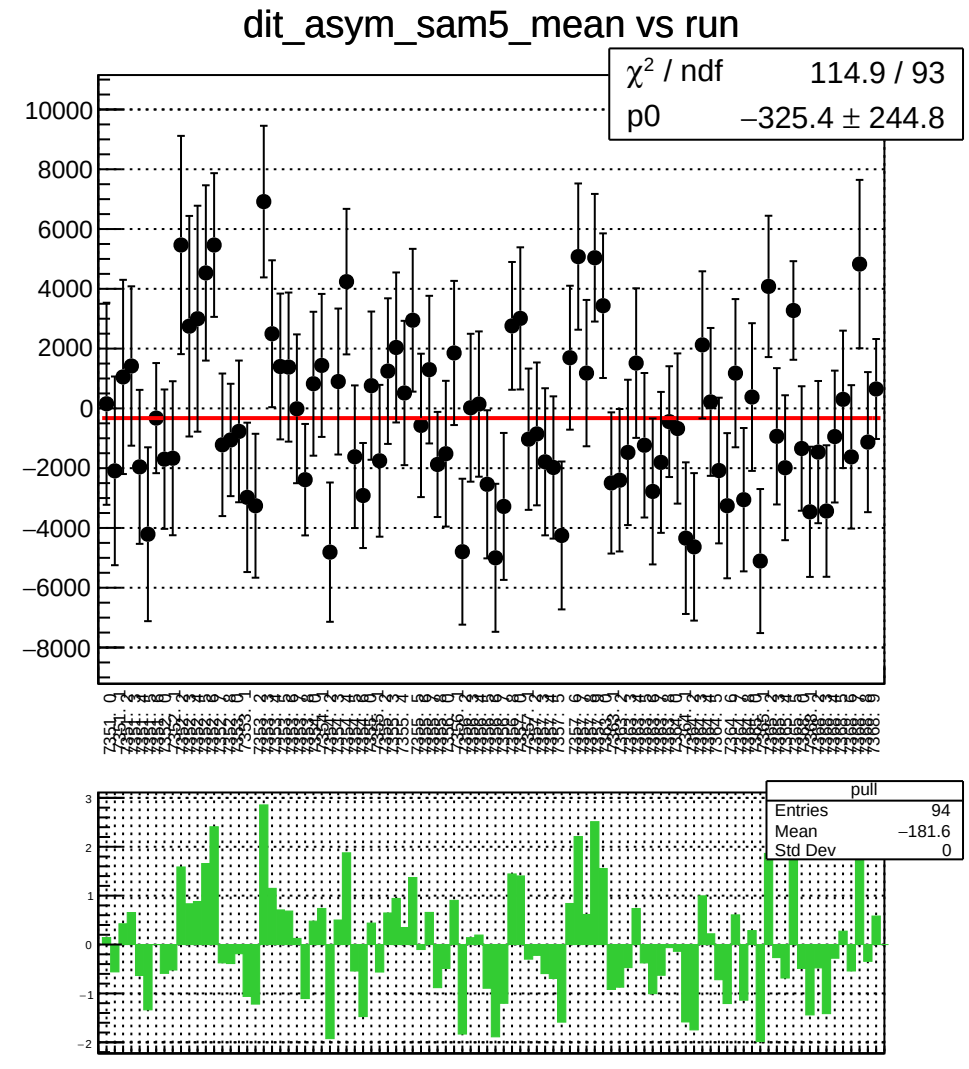

asym_sam5_cor_correction_rms vs run
χ² / ndf 8519 / 93
p0 1101 ± 0.818
1300
1250
1200
1150
1100
1050
1000
950
900

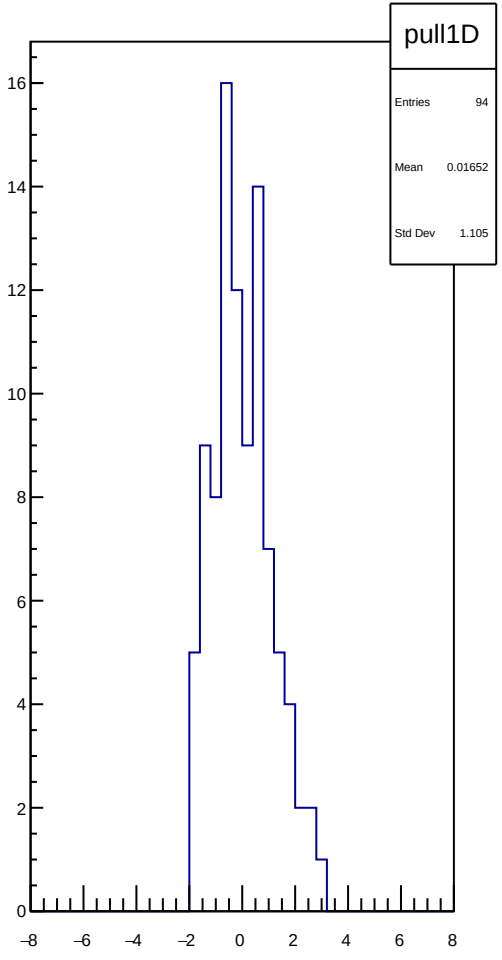

eigen_cor_asym_sam5_mean vs run
χ² / ndf 129 / 93
p0 −243.3 ± 191.6
pull
Entries 94
Mean −227.8
Std Dev 0
pull1D
Entries 94
Mean 0.002412
Std Dev 1.172

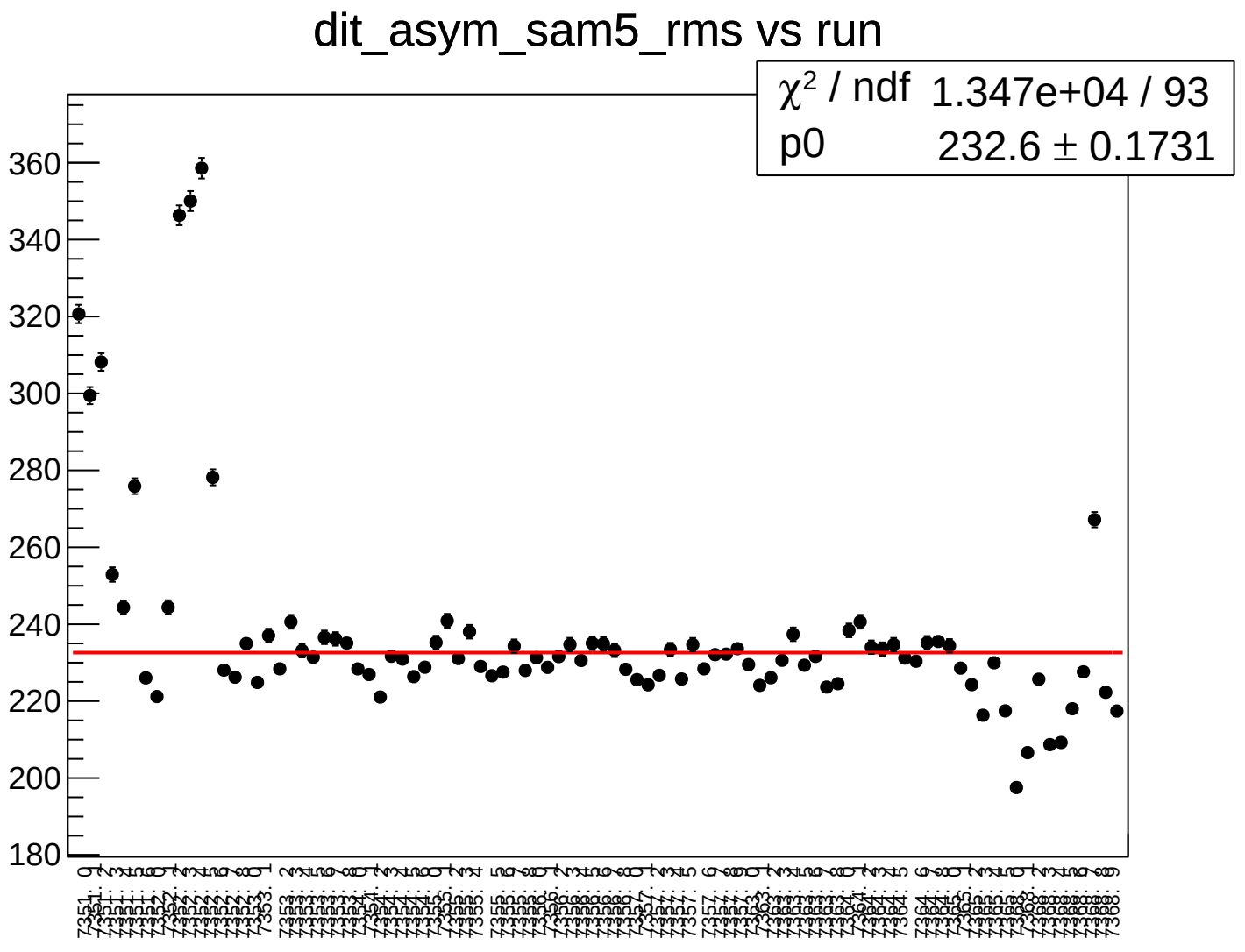

eigen_cor_asym_sam5_rms vs run
χ² / ndf 1830 / 93
p0 182.6 ± 0.1355
200
195
190
185
180
175
170

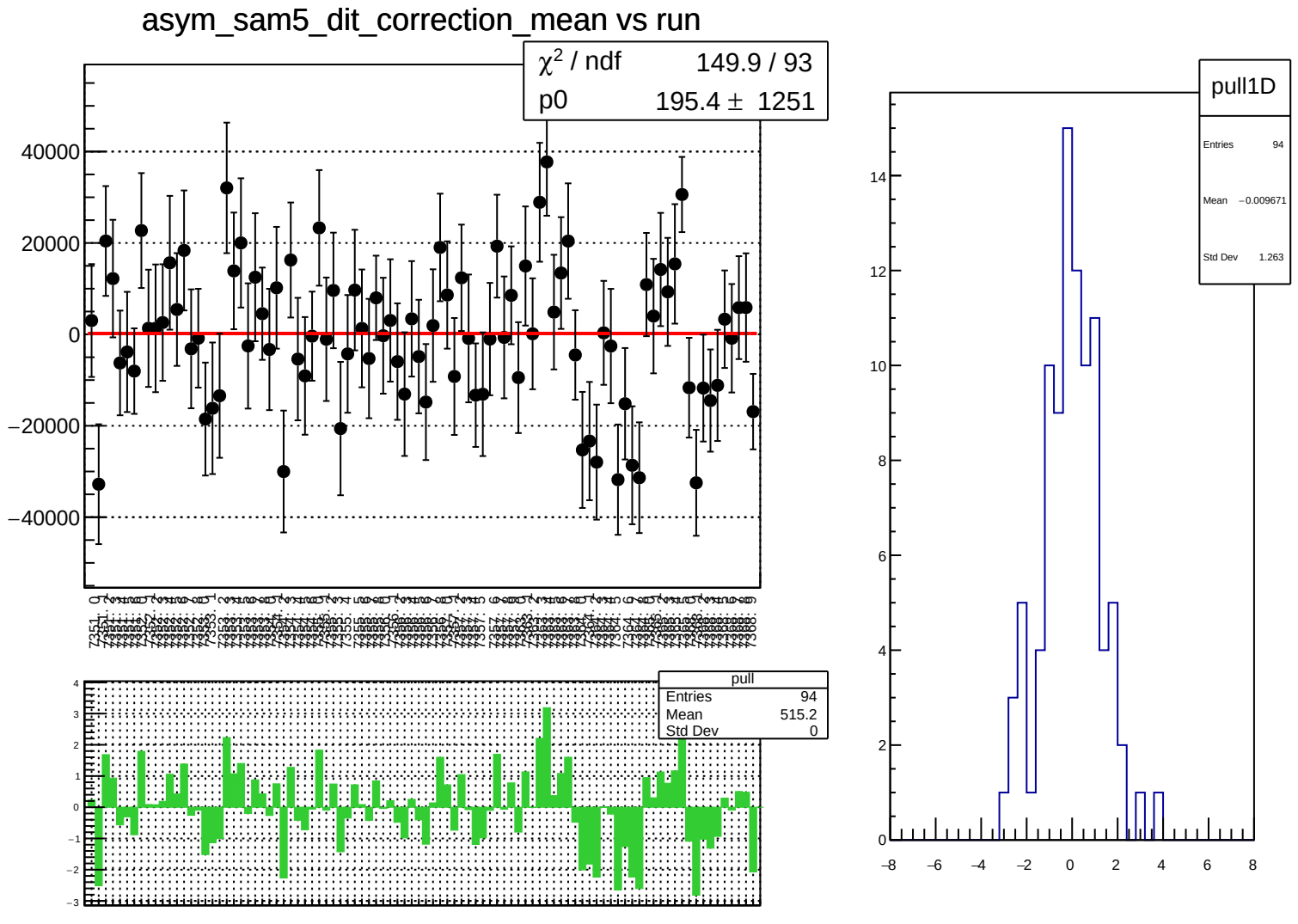

asym_sam5_eigen_cor_correction_mean vs run
χ² / ndf 138.9 / 93
p0 203.8 ± 1157
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 386
Std Dev 0
4
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.01206
Std Dev 1.215
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

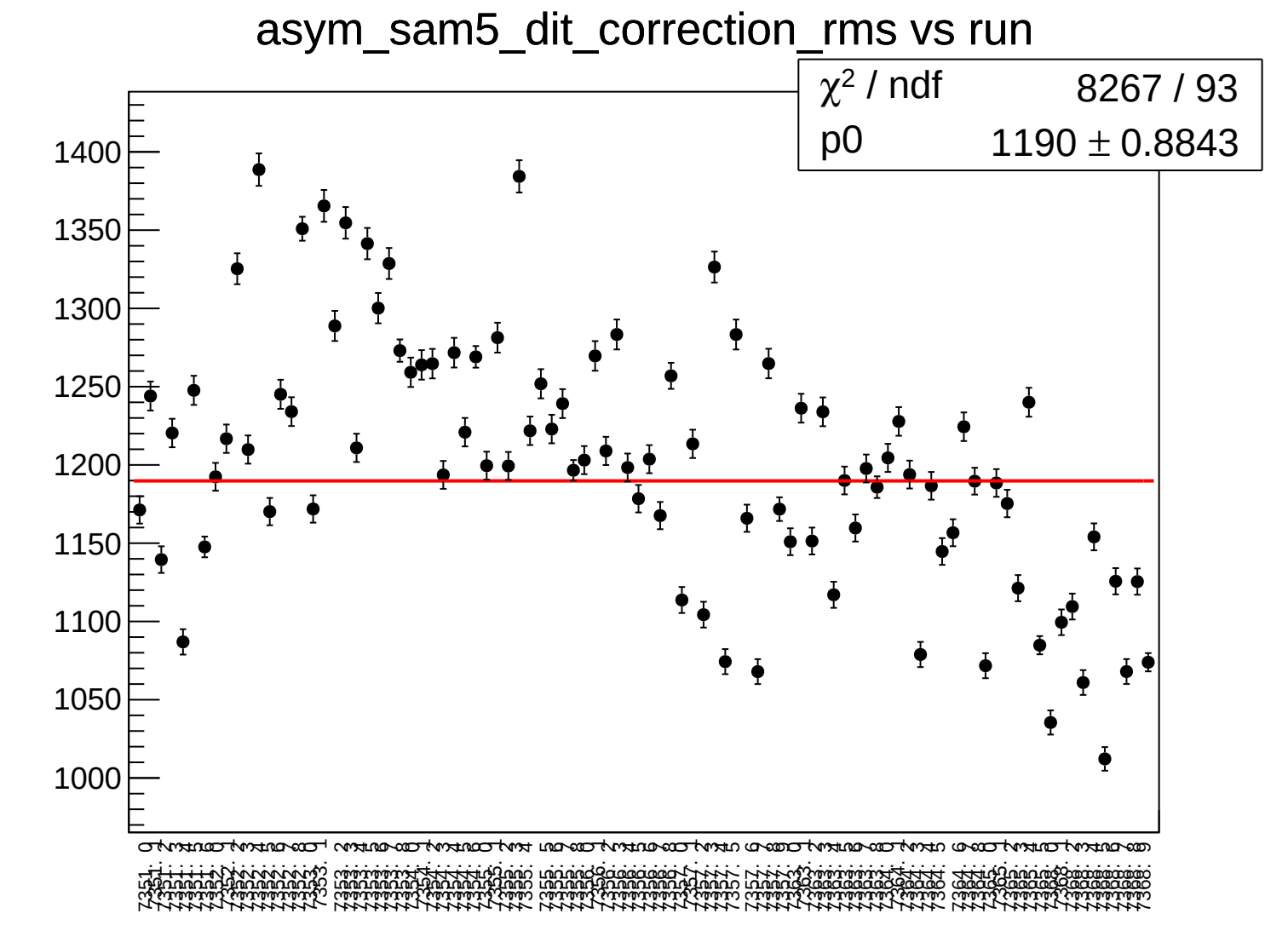

asym_sam5_eigen_cor_correction_rms vs run
χ^2 / ndf 8519 / 93
p0 1101 ± 0.818
1300
1250
1200
1150
1100
1050
1000
950
900

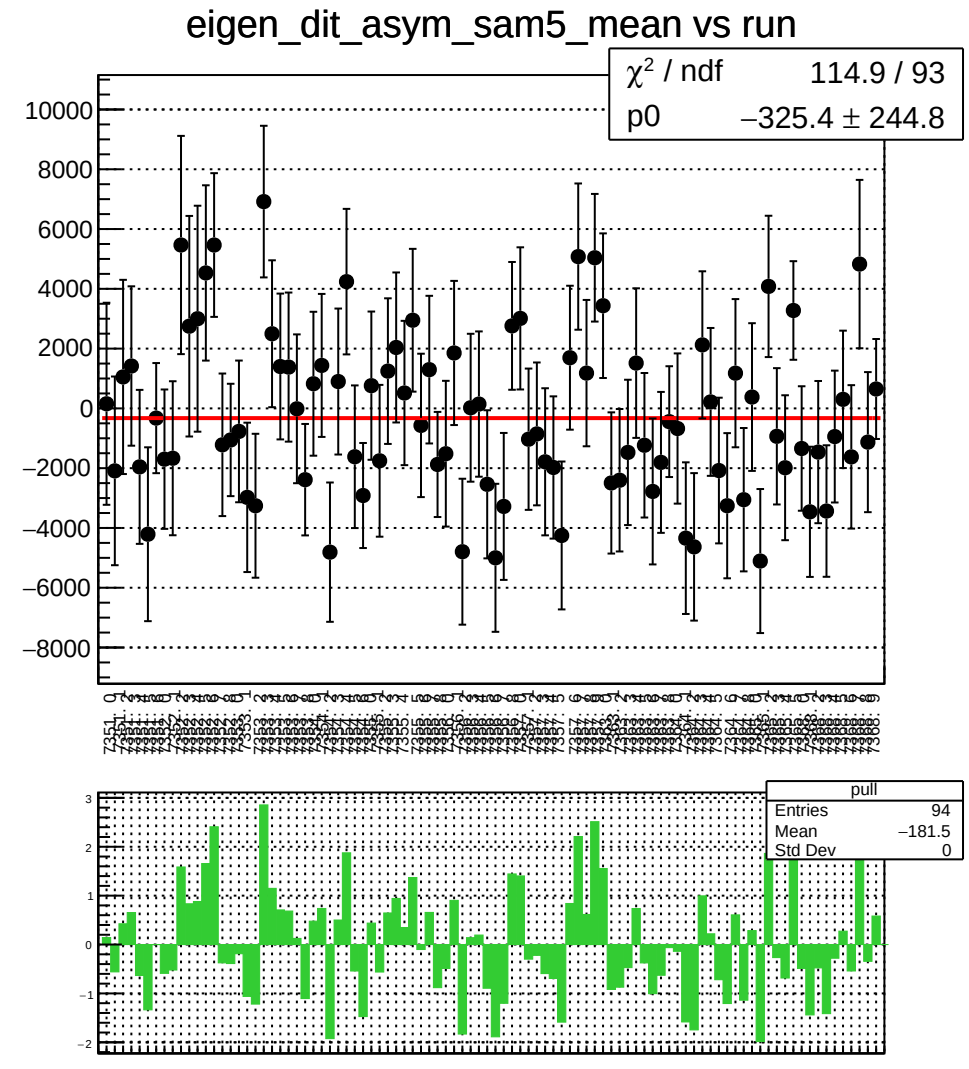

dit_asym_sam5_mean vs run
χ² / ndf 114.9 / 93
p0 −325.4 ± 244.8
pull
Entries 94
Mean −181.6
Std Dev 0

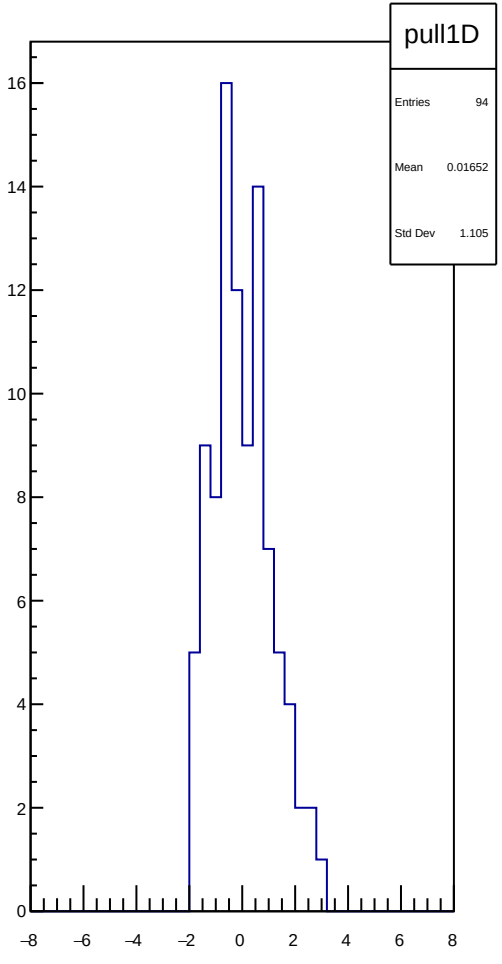

pull1D
Entries 94
Mean 0.01652
Std Dev 1.105

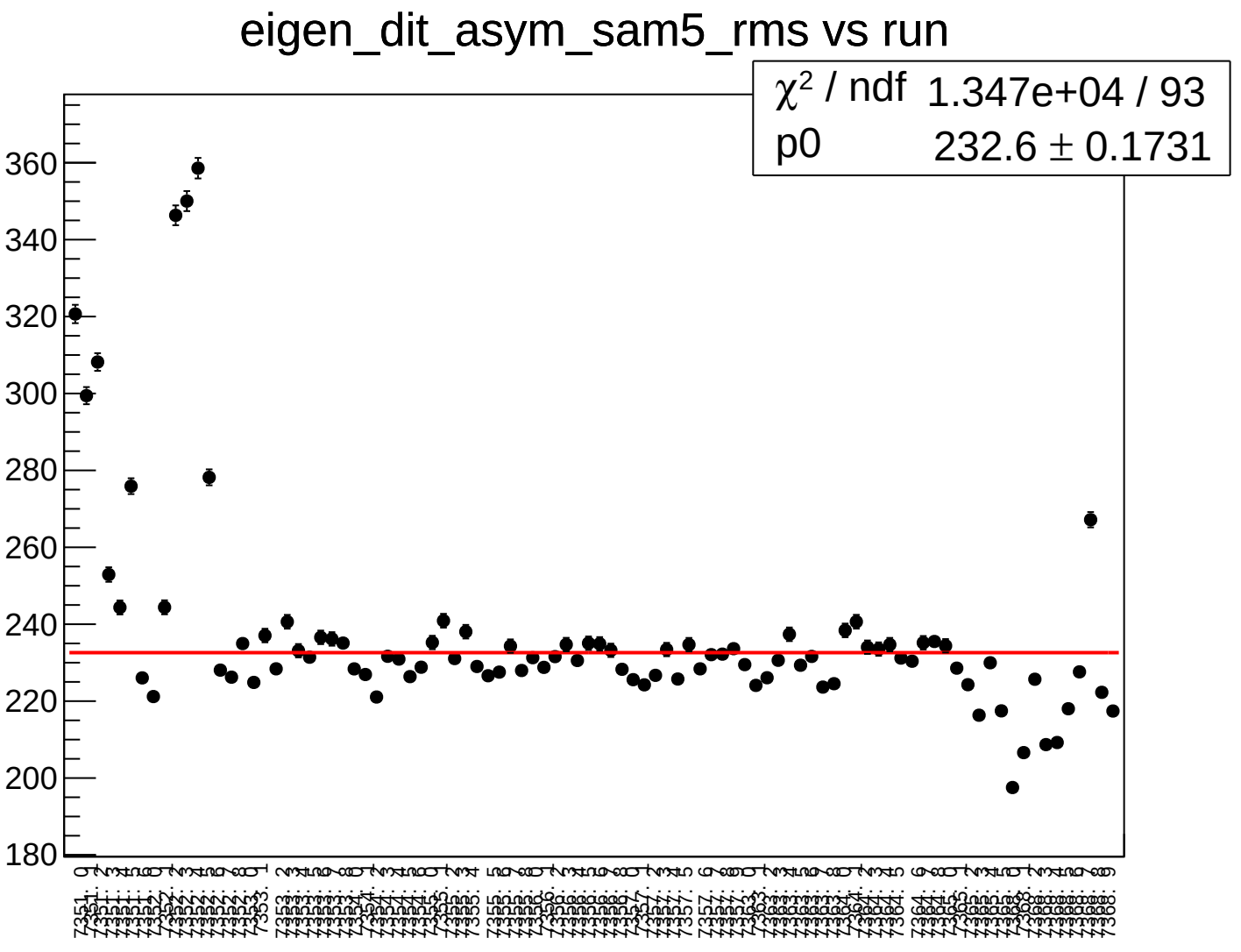

dit_asym_sam5_rms vs run
χ² / ndf 1.347e+04 / 93
p0 232.6 ± 0.1731
360
340
320
300
280
260
240
220
200
180

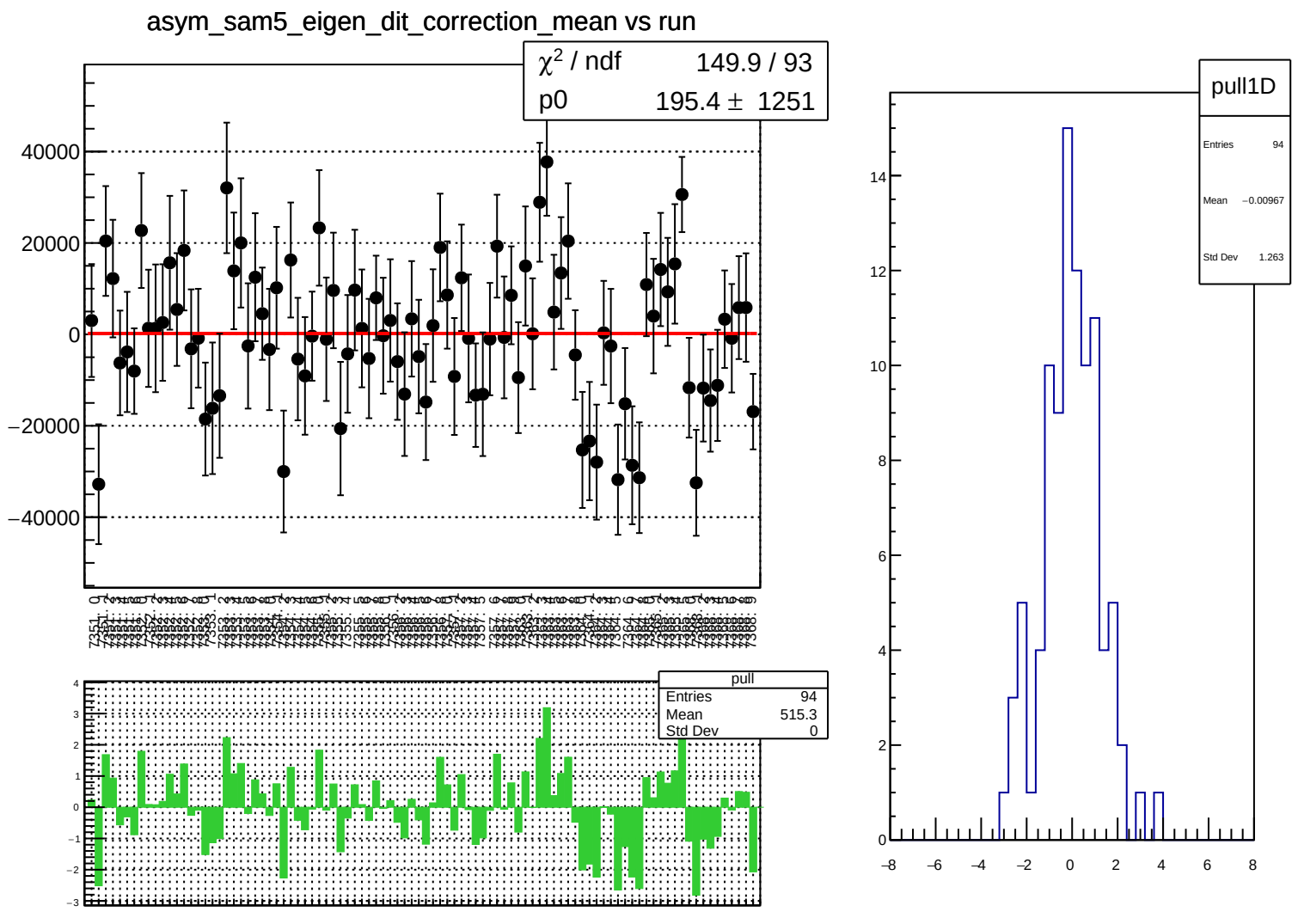

asym_sam5_dit_correction_mean vs run
χ² / ndf 149.9 / 93
p0 195.4 ± 1251
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 515.2
Std Dev 0
pull1D
Entries 94
Mean −0.009671
Std Dev 1.263

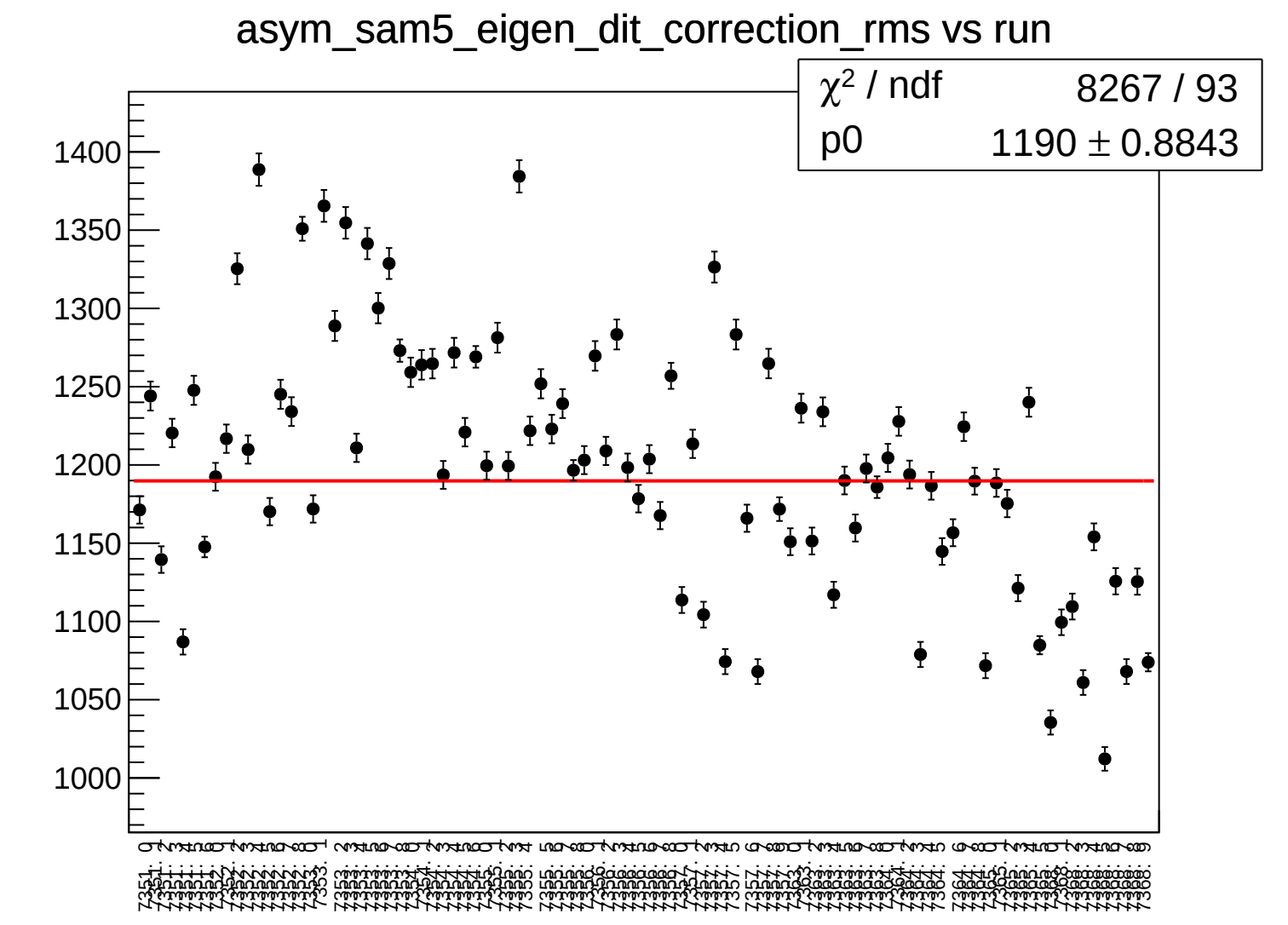

asym_sam5_dit_correction_rms vs run
χ² / ndf 8267 / 93
p0 1190 ± 0.8843
1400
1350
1300
1250
1200
1150
1100
1050
1000

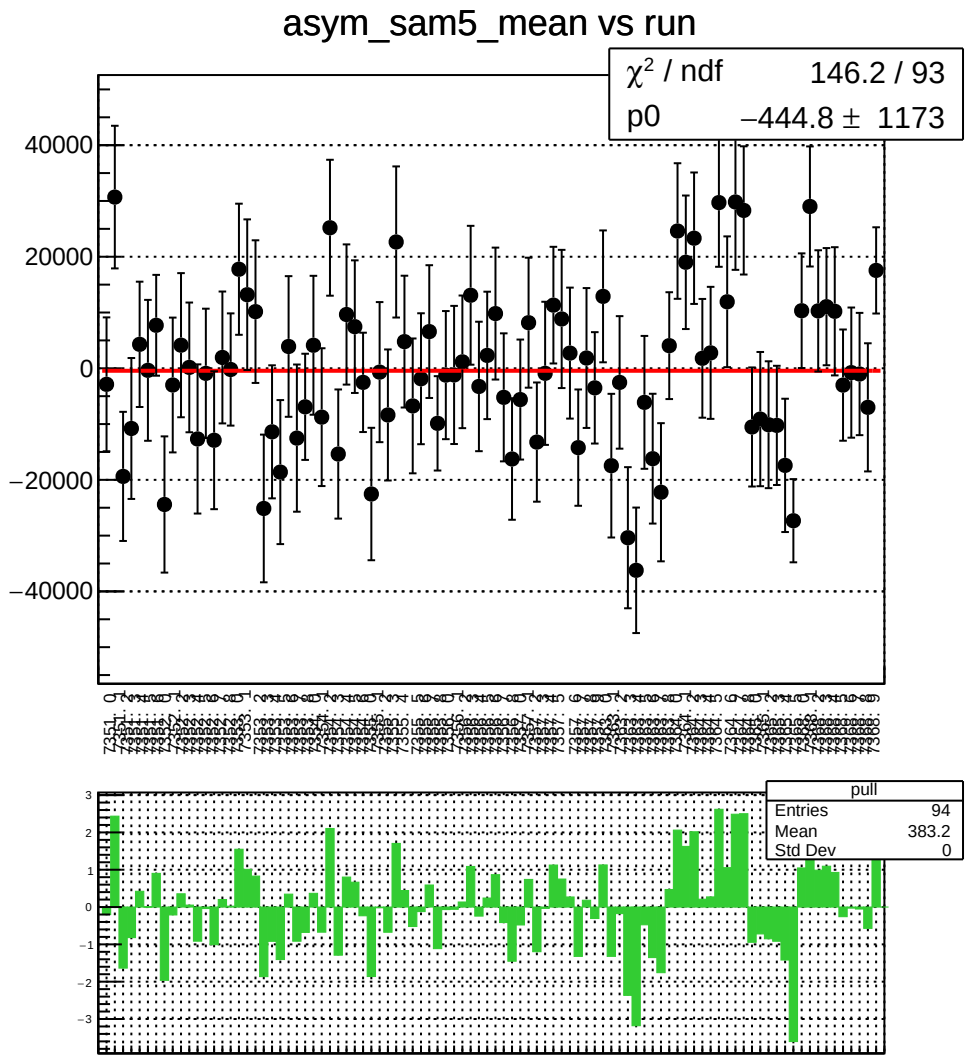

eigen_dit_asym_sam5_mean vs run
χ² / ndf 114.9 / 93
p0 −325.4 ± 244.8
pull
Entries 94
Mean −181.5
Std Dev 0

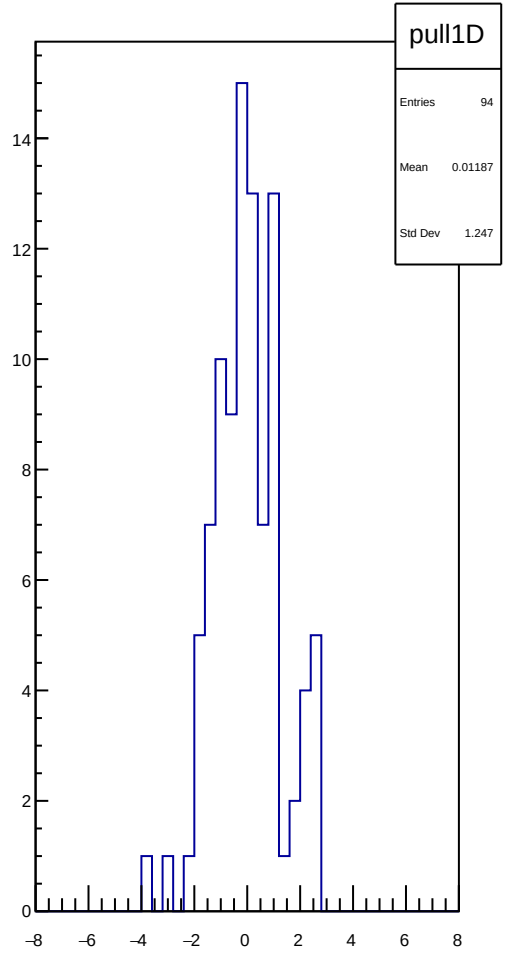

pull1D
Entries 94
Mean 0.01652
Std Dev 1.105

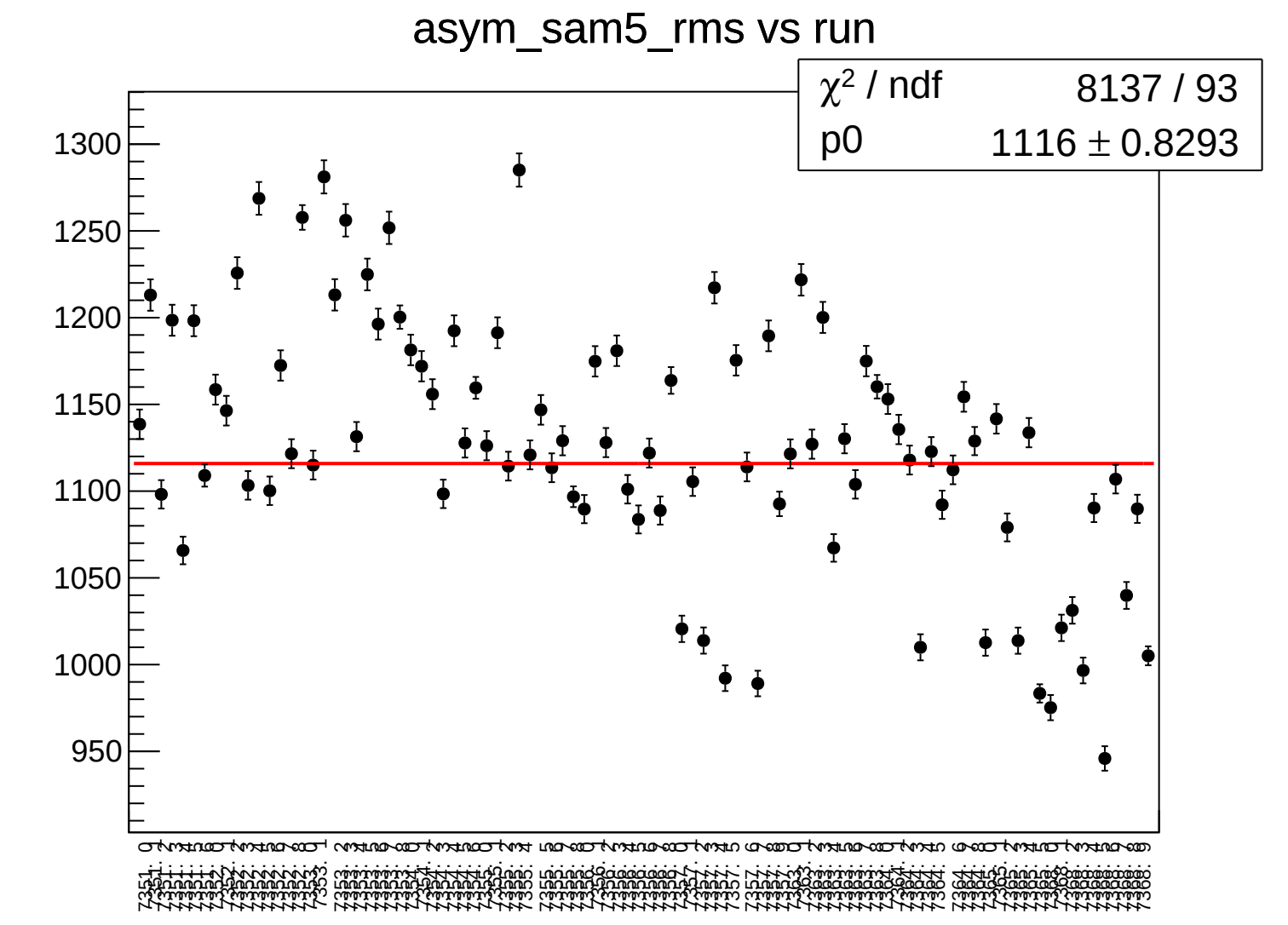

eigen_dit_asym_sam5_rms vs run
χ² / ndf 1.347e+04 / 93
p0 232.6 ± 0.1731
360
340
320
300
280
260
240
220
200
180

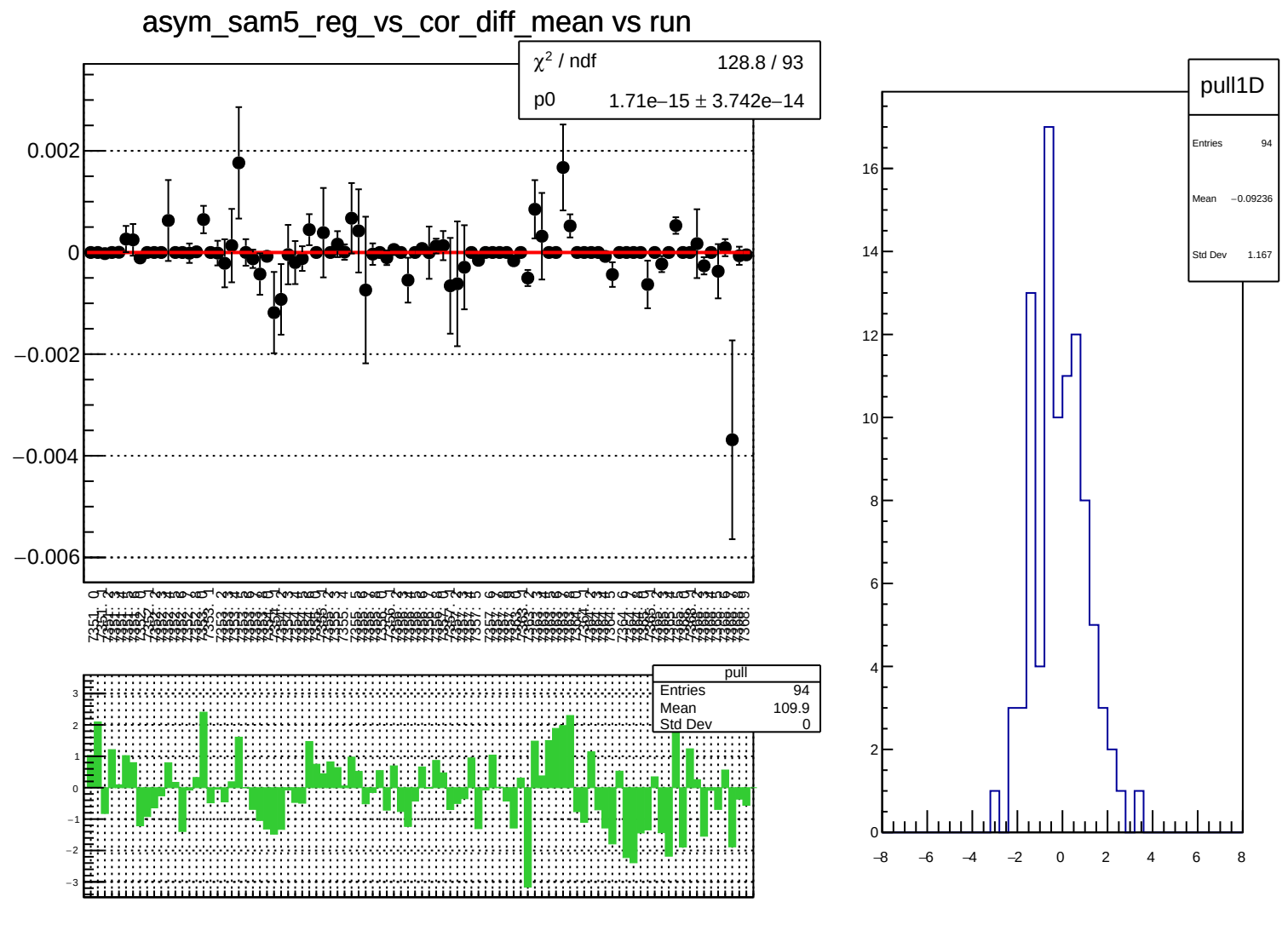

asym_sam5_eigen_dit_correction_mean vs run
χ² / ndf 149.9 / 93
p0 195.4 ± 1251
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 515.3
Std Dev 0
4
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.00967
Std Dev 1.263
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

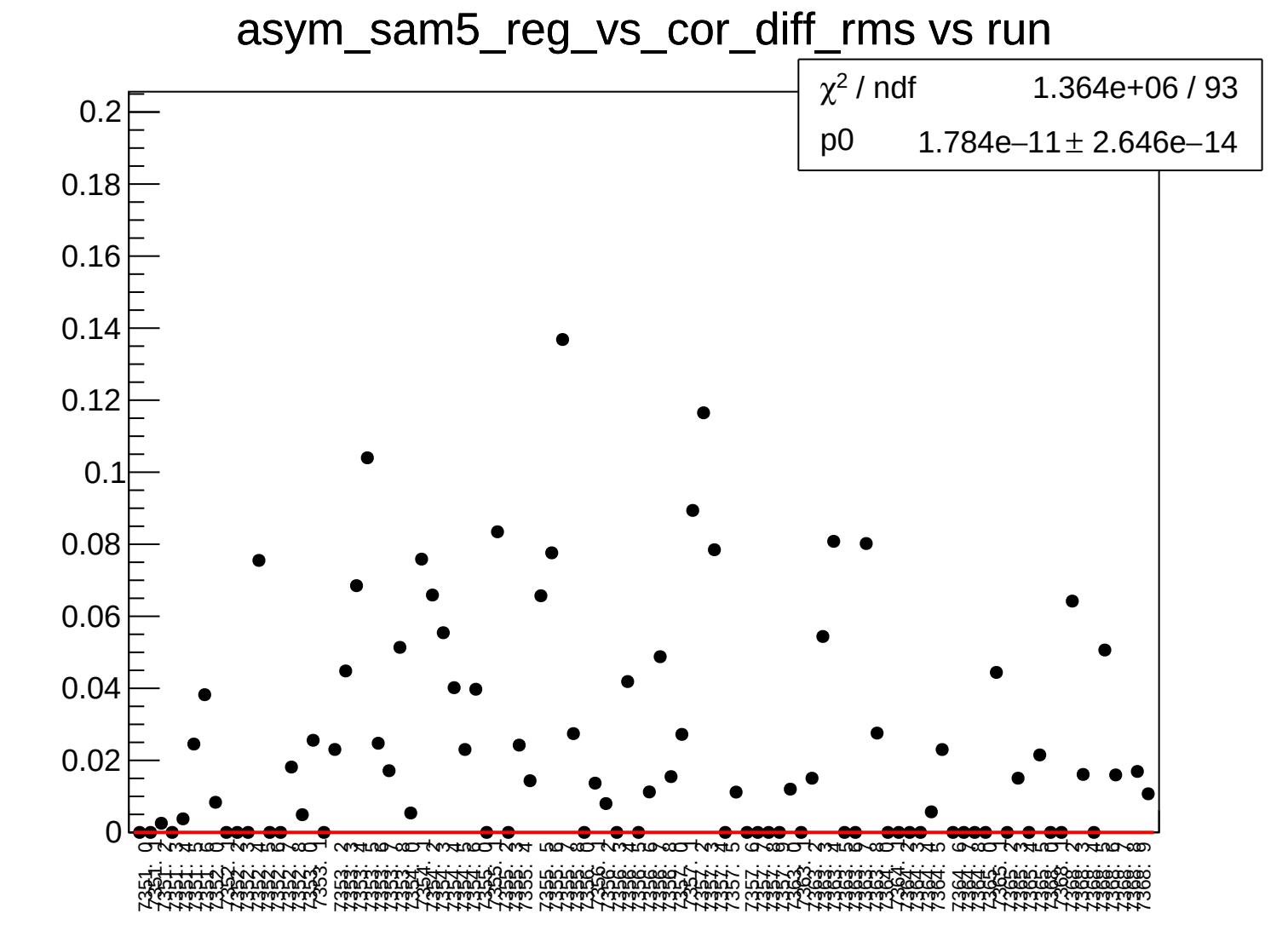

asym_sam5_eigen_dit_correction_rms vs run
χ² / ndf 8267 / 93
p0 1190 ± 0.8843
1400
1350
1300
1250
1200
1150
1100
1050
1000

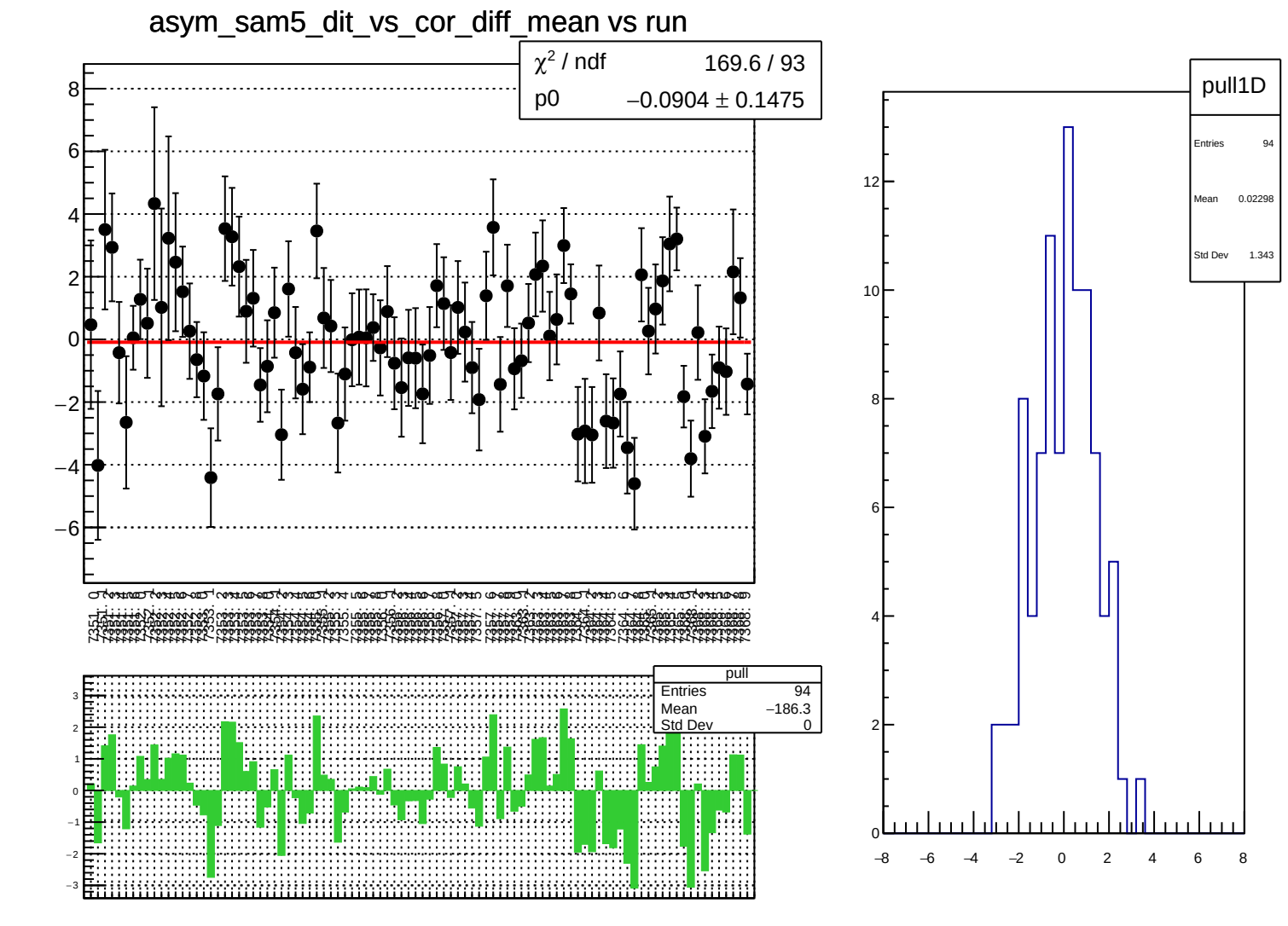

asym_sam5_mean vs run
χ² / ndf 146.2 / 93
p0 −444.8 ± 1173
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 383.2
Std Dev 0
3
2
1
0
−1
−2
−3

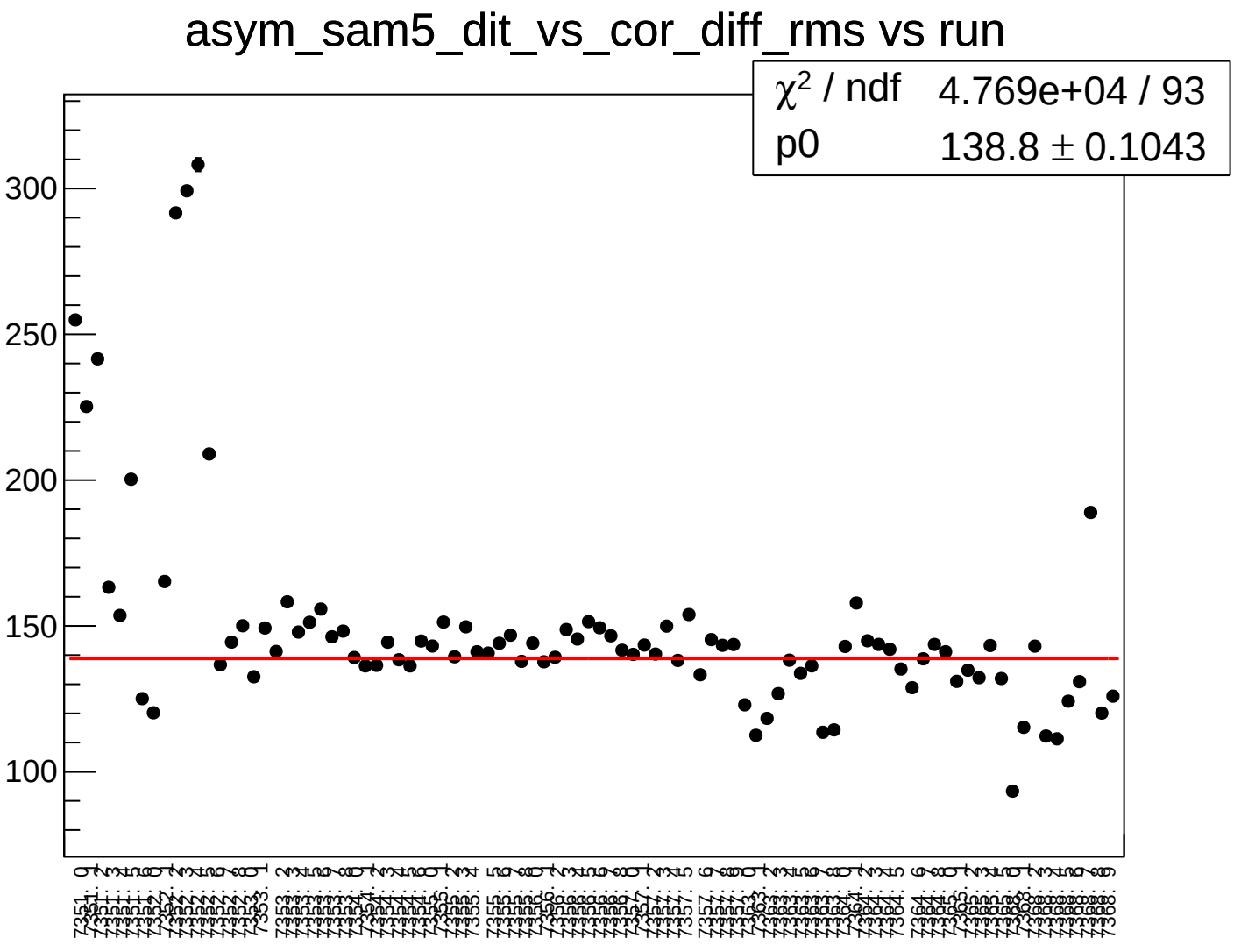

pull1D
Entries 94
Mean 0.01187
Std Dev 1.247
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

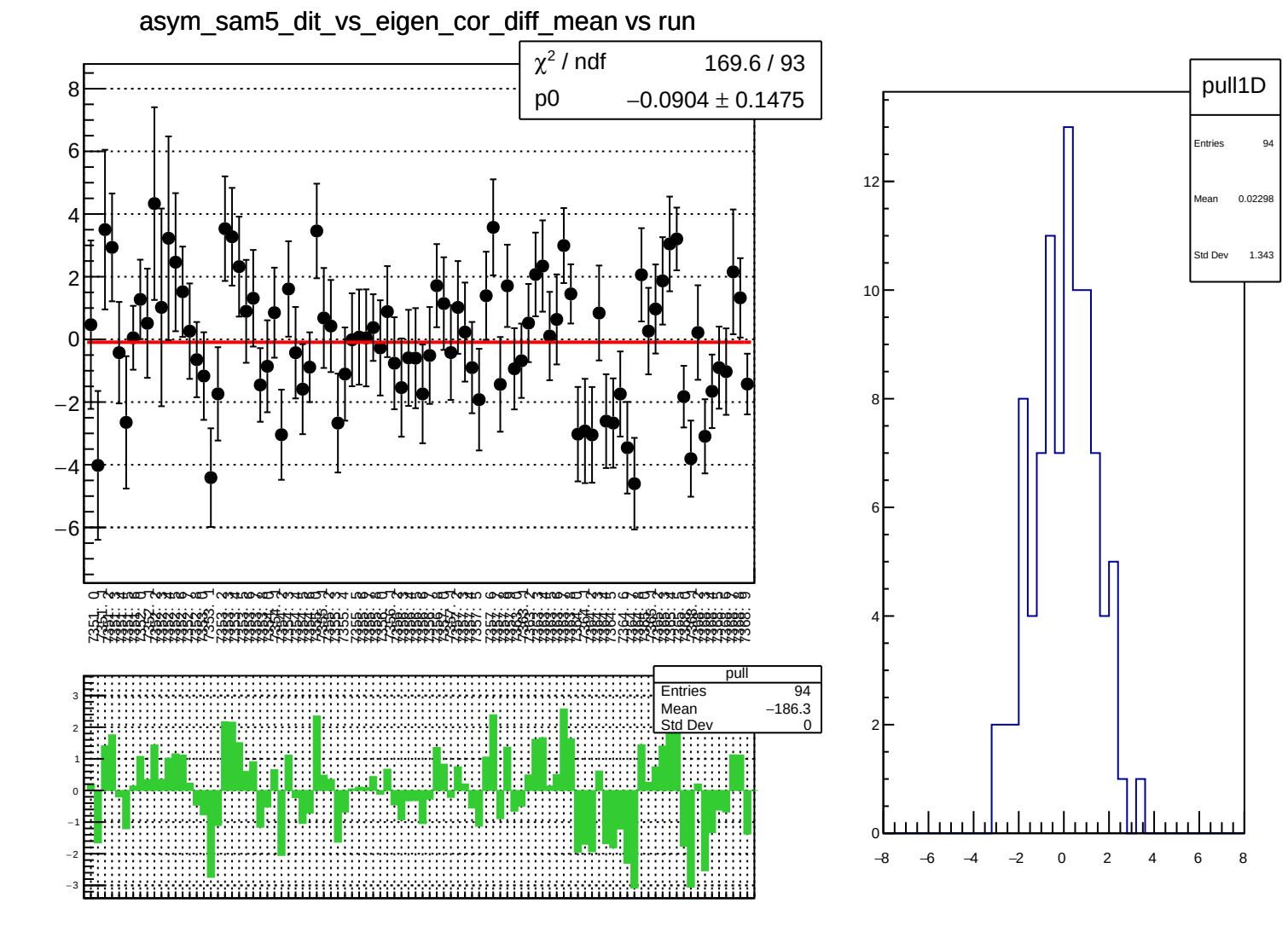

asym_sam5_rms vs run
χ² / ndf 8137 / 93
p0 1116 ± 0.8293
1300
1250
1200
1150
1100
1050
1000
950

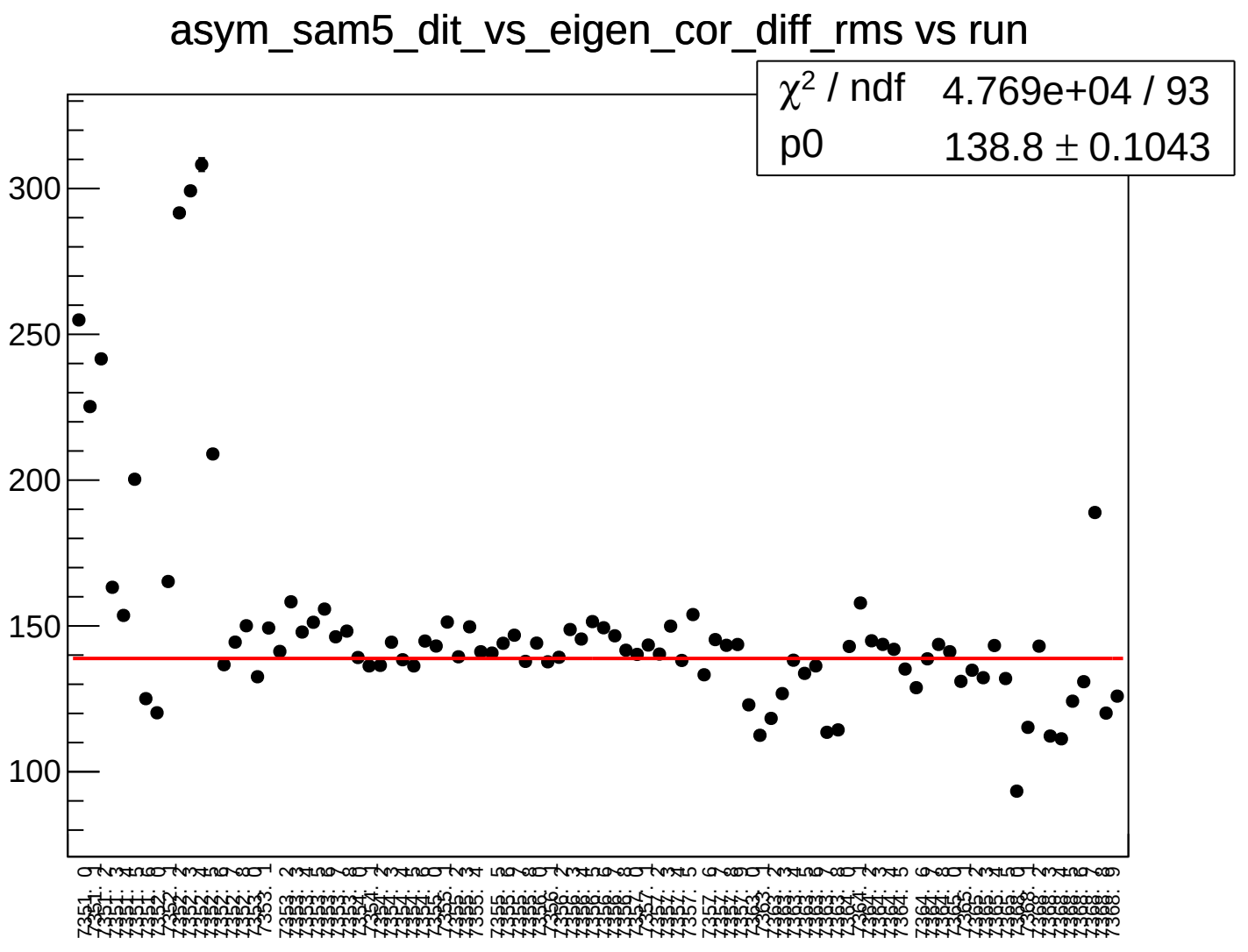

asym_sam5_reg_vs_cor_diff_mean vs run
χ² / ndf 128.8 / 93
p0 1.71e−15 ± 3.742e−14
0.002
0
−0.002
−0.004
−0.006
pull
Entries 94
Mean 109.9
Std Dev 0
pull1D
Entries 94
Mean −0.09236
Std Dev 1.167
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

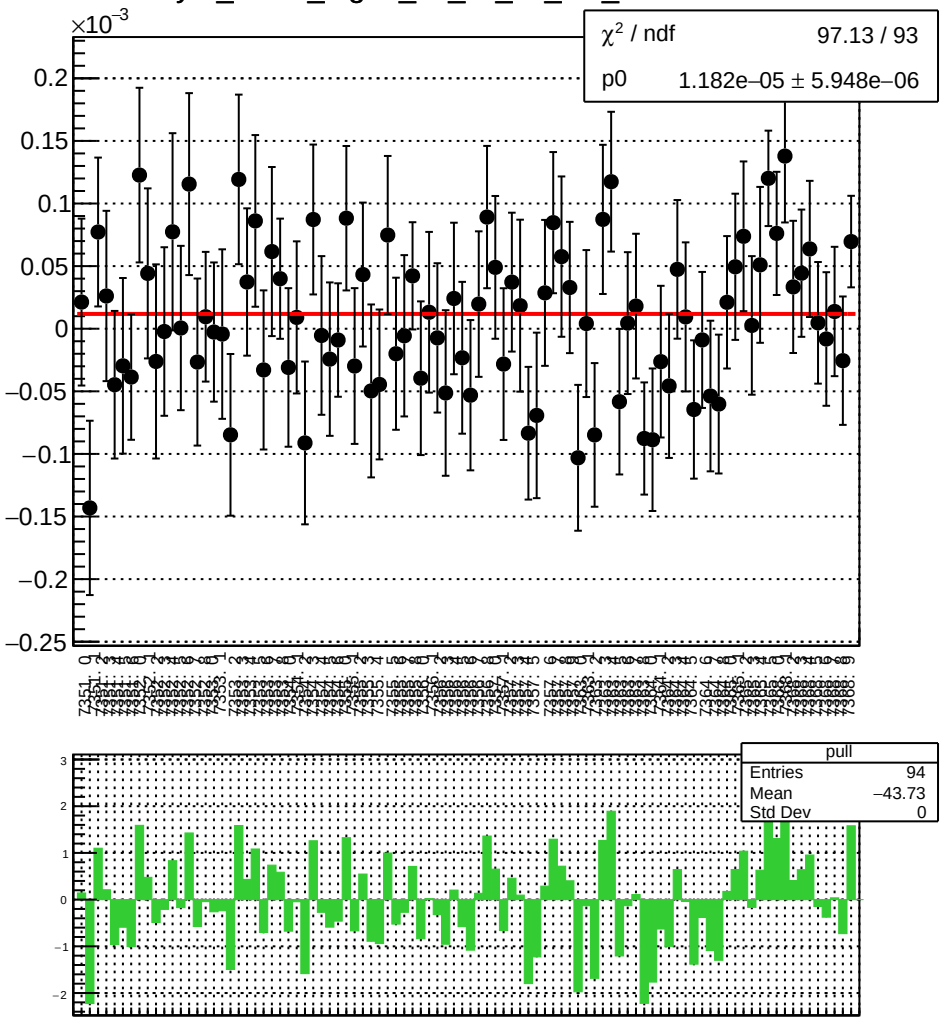

asym_sam5_reg_vs_cor_diff_rms vs run
χ² / ndf 1.364e+06 / 93
p0 1.784e−11 ± 2.646e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

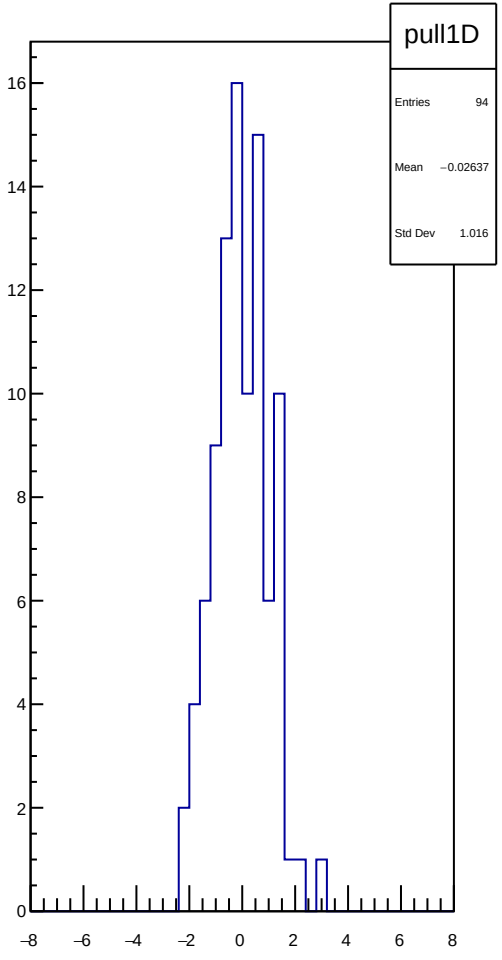

asym_sam5_dit_vs_cor_diff_mean vs run
χ² / ndf 169.6 / 93
p0 −0.0904 ± 0.1475
pull
Entries 94
Mean −186.3
Std Dev 0
pull1D
Entries 94
Mean 0.02298
Std Dev 1.343

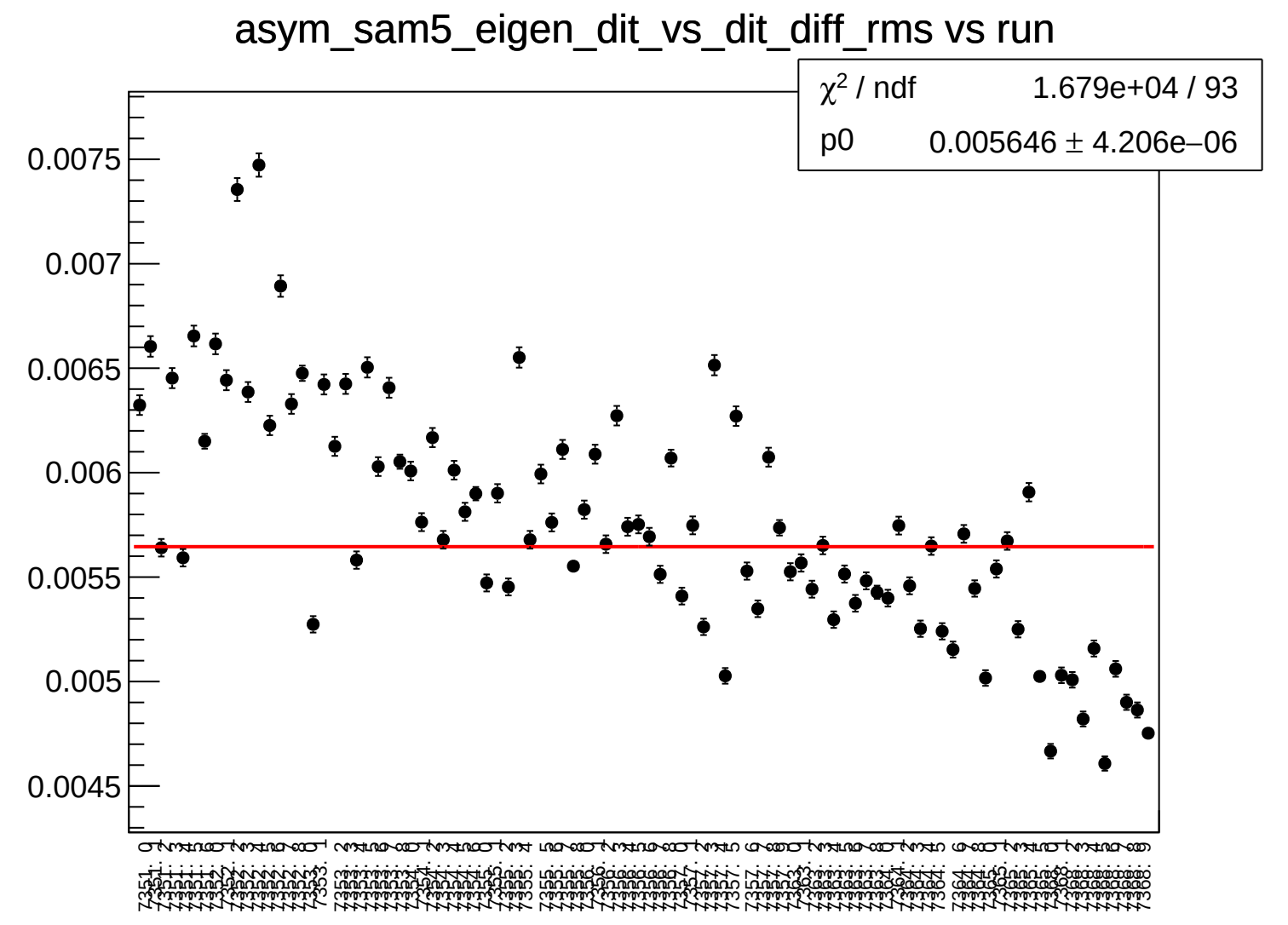

asym_sam5_dit_vs_cor_diff_rms vs run
χ² / ndf 4.769e+04 / 93
p0 138.8 ± 0.1043
300
250
200
150
100

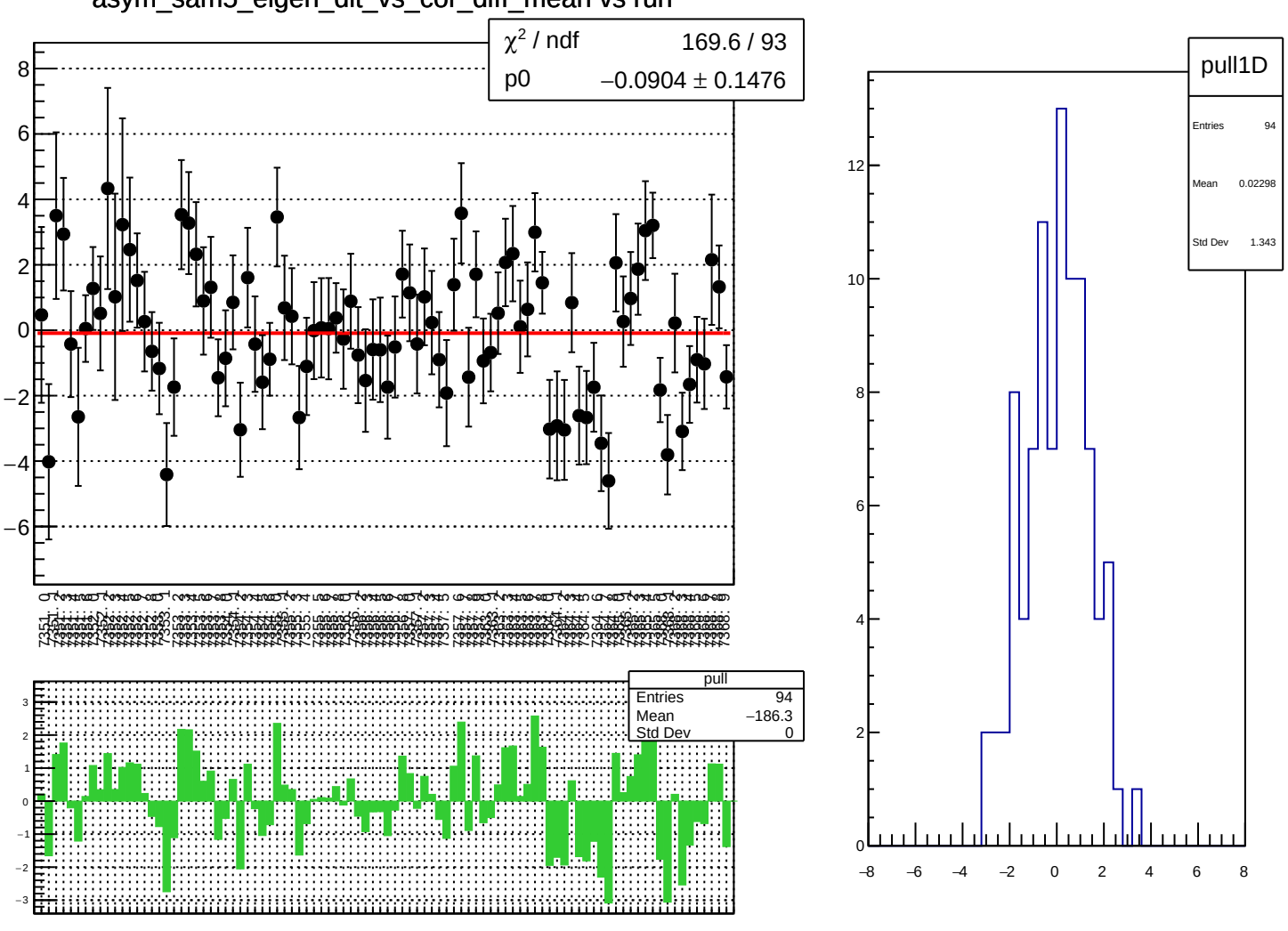

asym_sam5_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 169.6 / 93
p0 −0.0904 ± 0.1475
pull
Entries 94
Mean −186.3
Std Dev 0
pull1D
Entries 94
Mean 0.02298
Std Dev 1.343

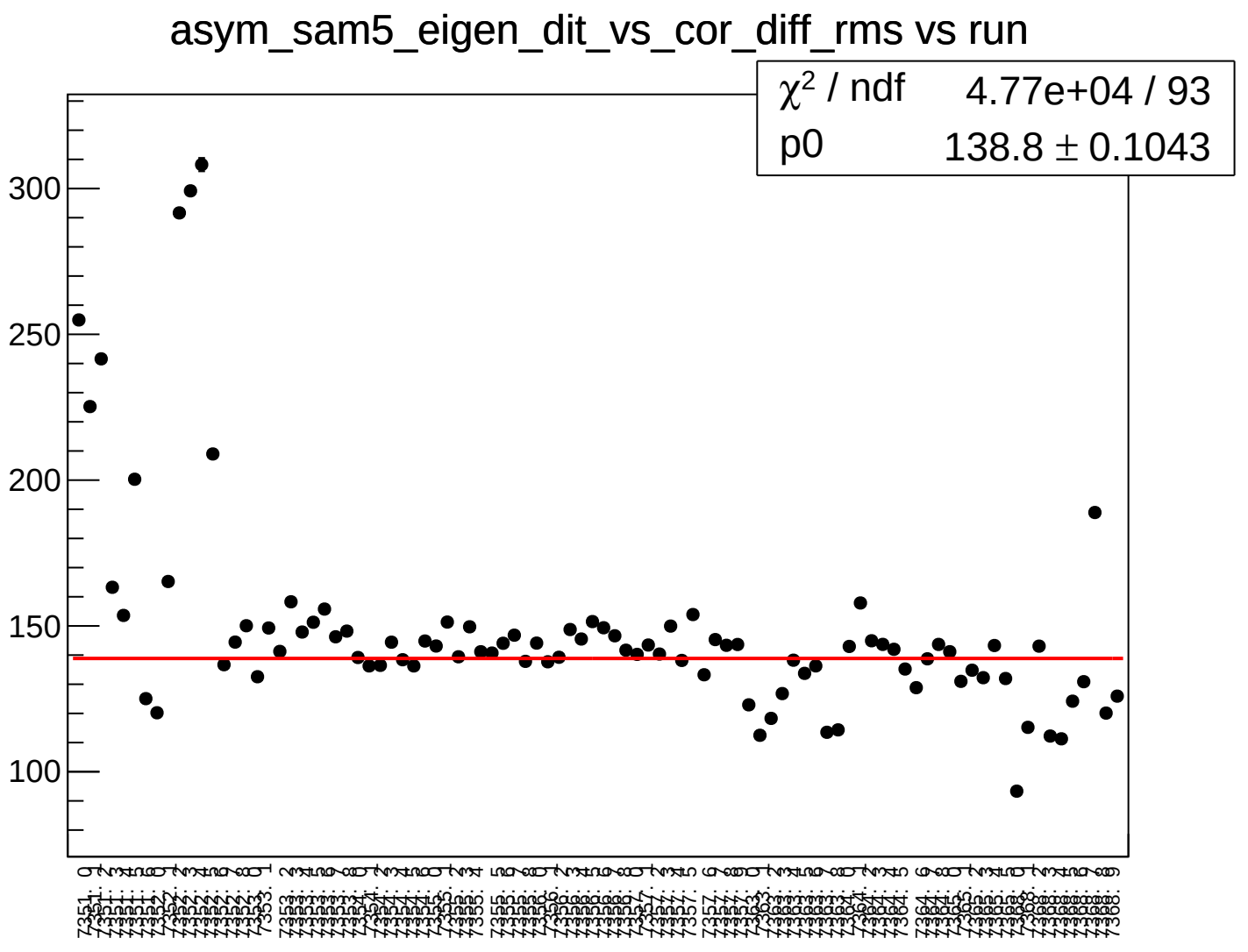

asym_sam5_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.769e+04 / 93
p0 138.8 ± 0.1043
300
250
200
150
100

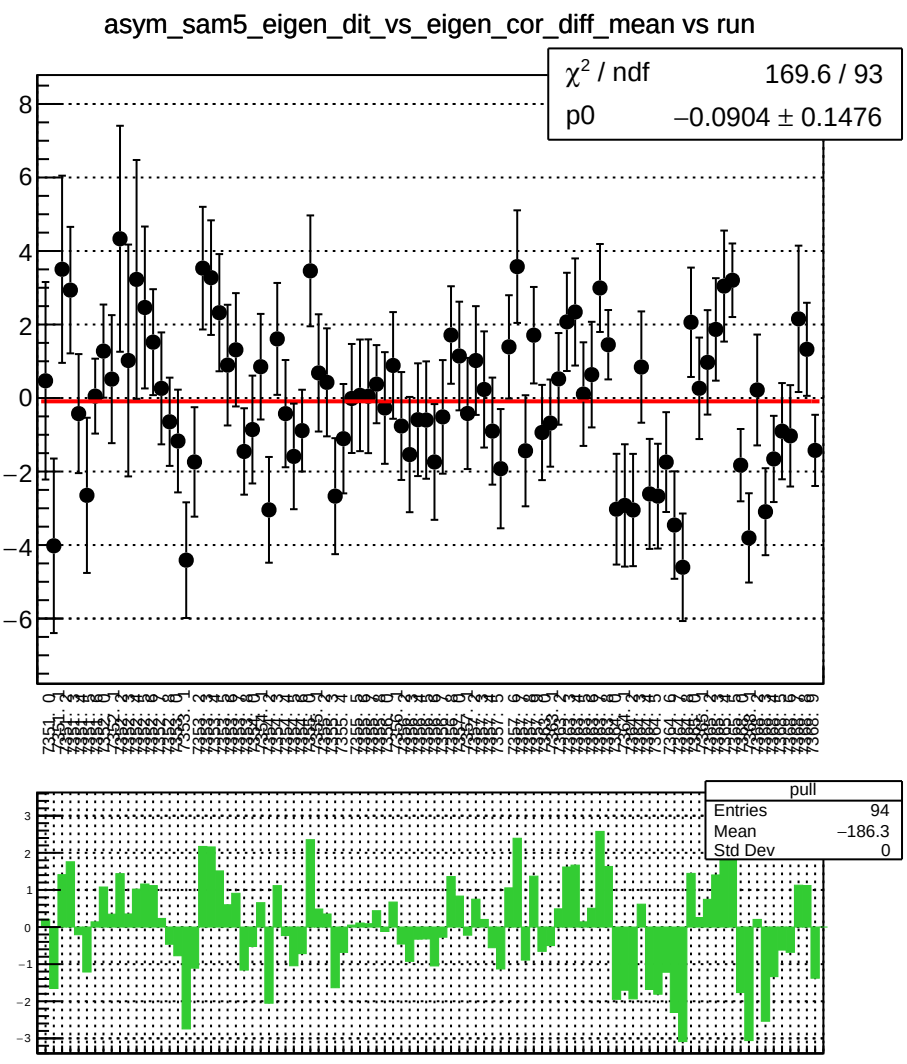

asym_sam5_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.13 / 93
p0 1.182e−05 ± 5.948e−06
pull
Entries 94
Mean −43.73
Std Dev 0

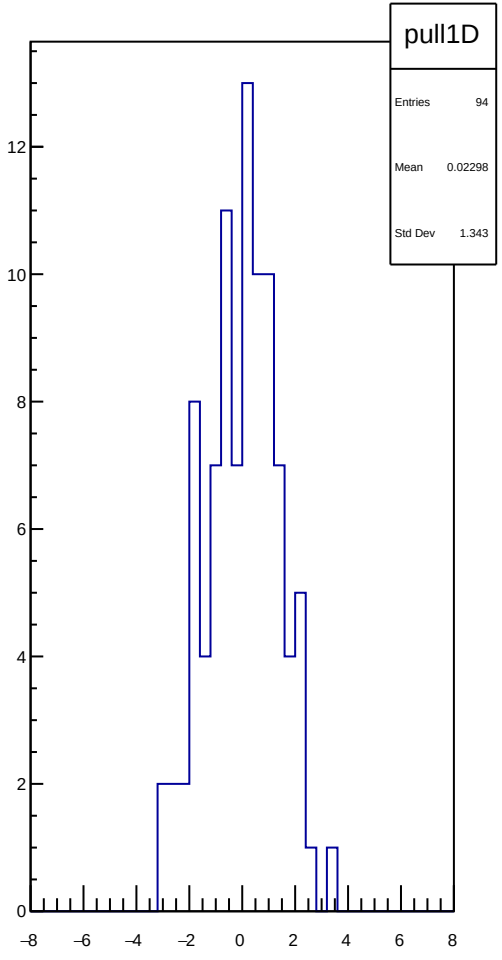

pull1D
Entries 94
Mean −0.02637
Std Dev 1.016

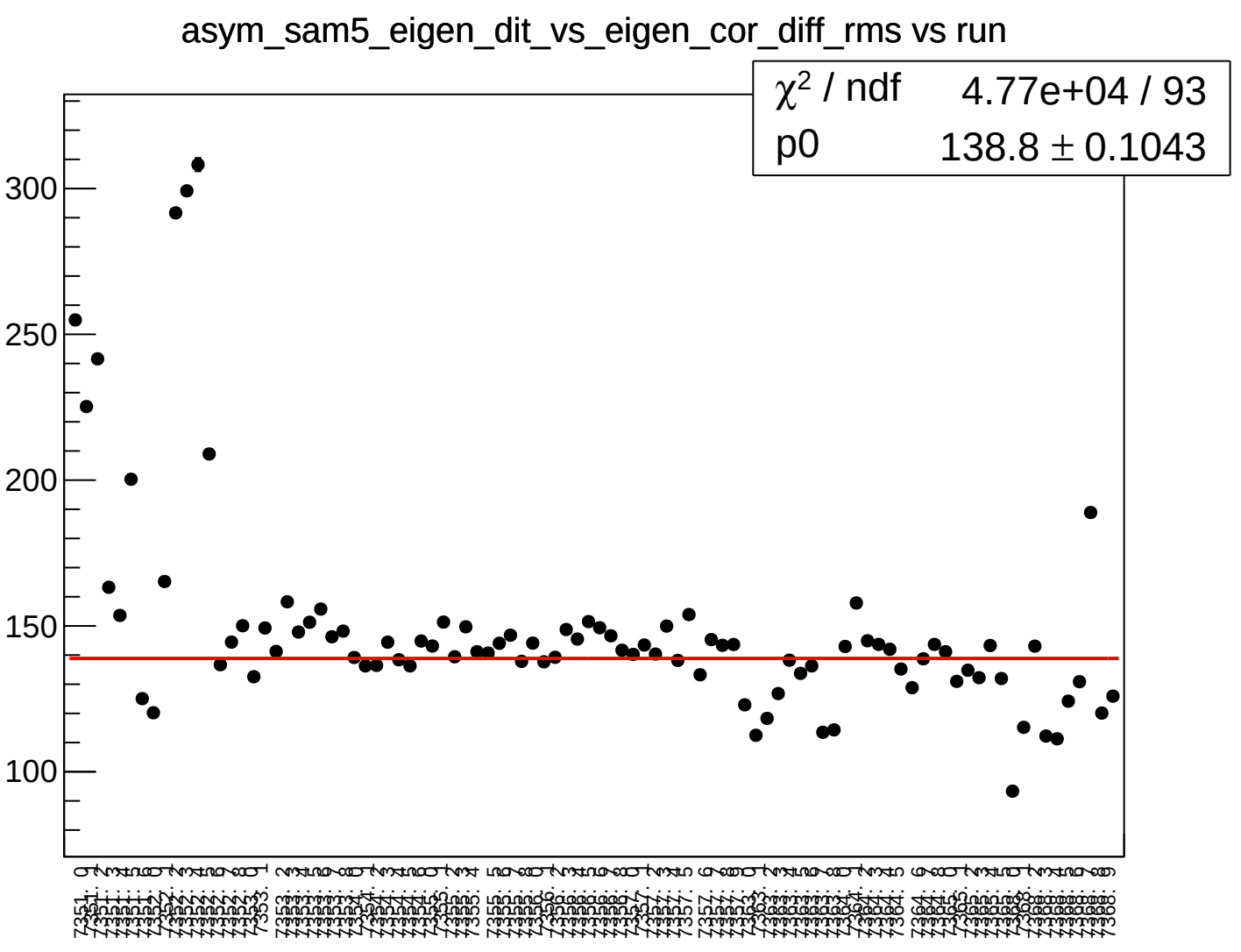

asym_sam5_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.679e+04 / 93
p0 0.005646 ± 4.206e−06
0.0075
0.007
0.0065
0.006
0.0055
0.005
0.0045

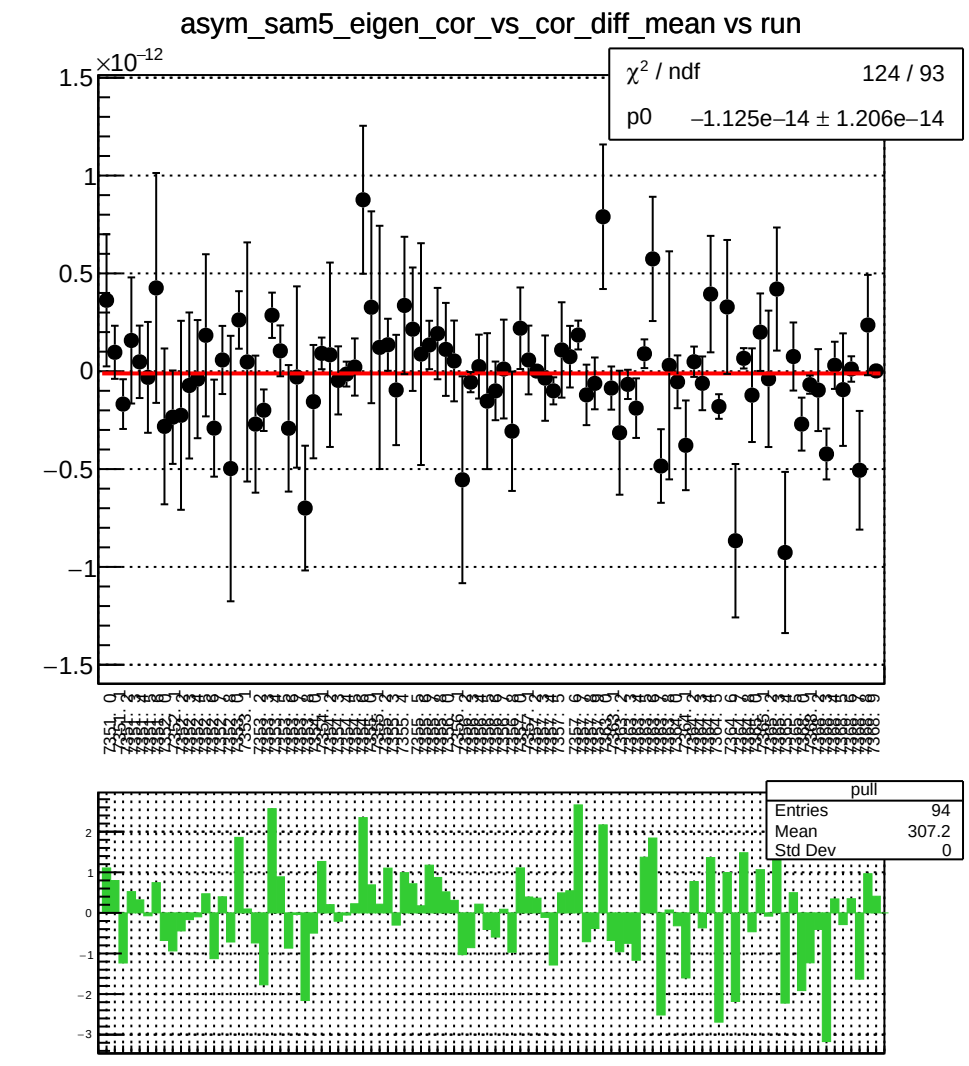

asym_sam5_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 169.6 / 93
p0 −0.0904 ± 0.1476
pull
Entries 94
Mean −186.3
Std Dev 0
pull1D
Entries 94
Mean 0.02298
Std Dev 1.343

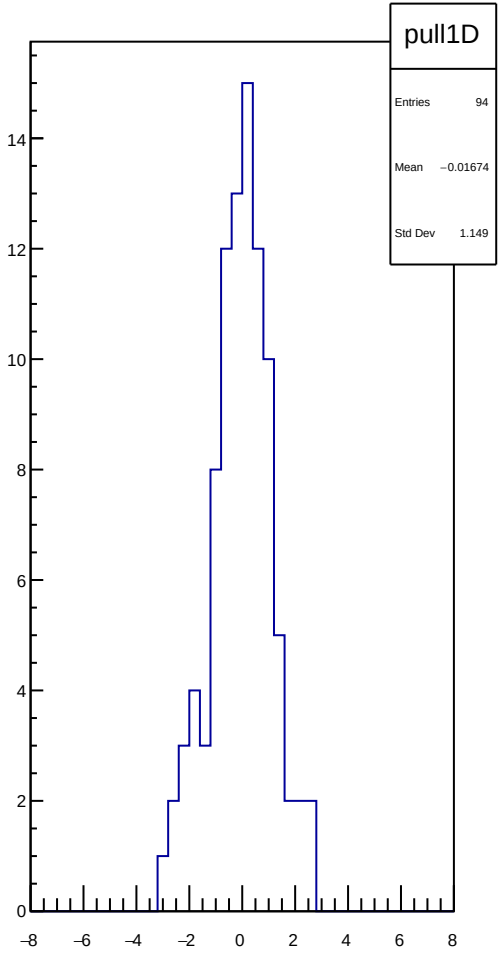

asym_sam5_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.77e+04 / 93
p0 138.8 ± 0.1043
300
250
200
150
100

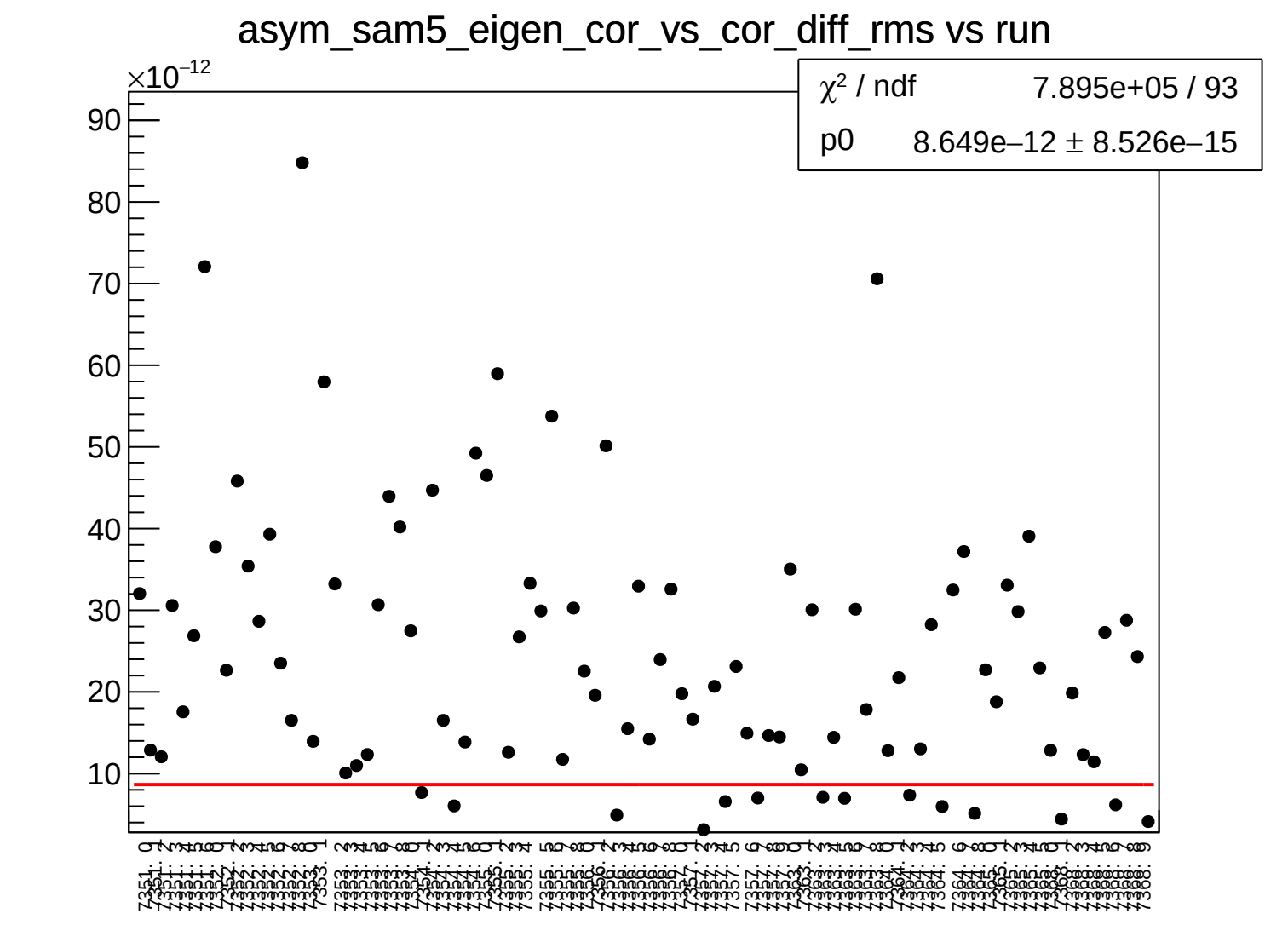

asym_sam5_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 169.6 / 93
p0 −0.0904 ± 0.1476
pull
Entries 94
Mean −186.3
Std Dev 0

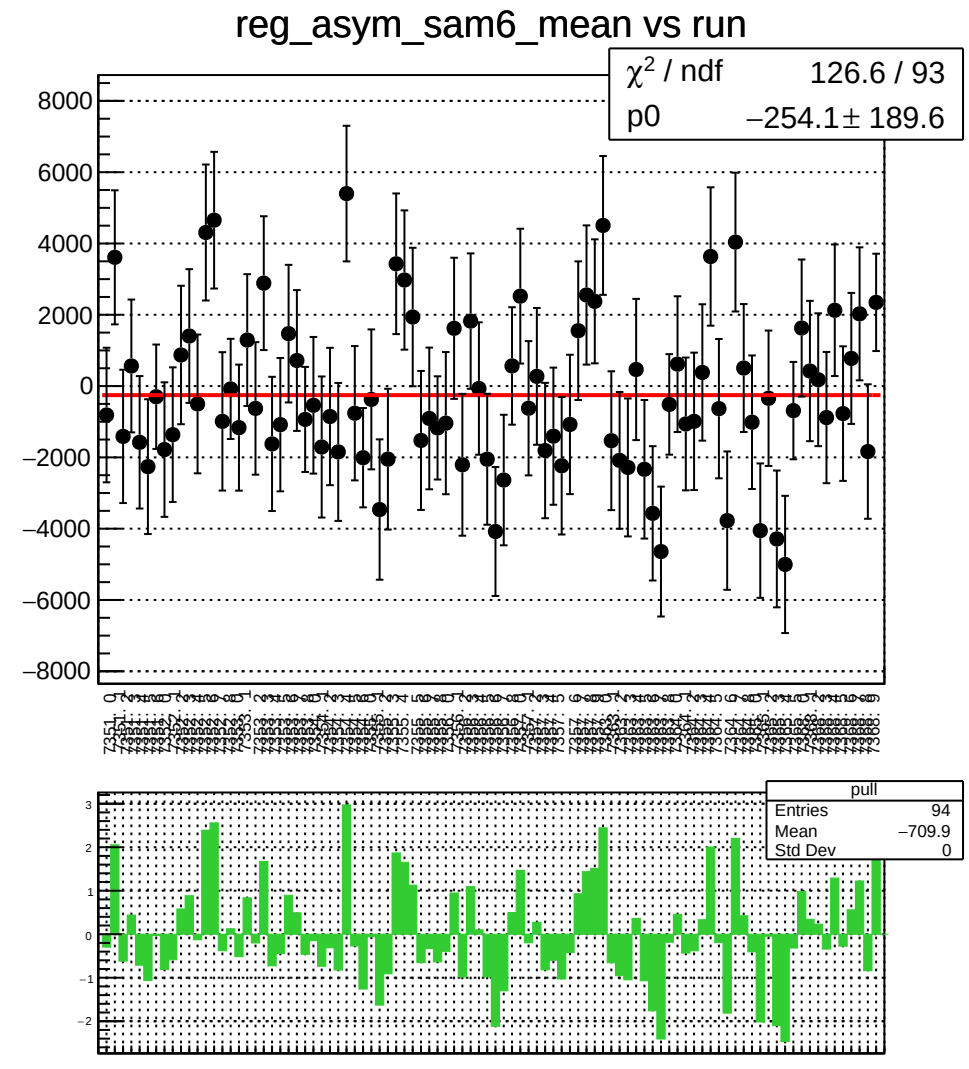

pull1D
Entries 94
Mean 0.02298
Std Dev 1.343

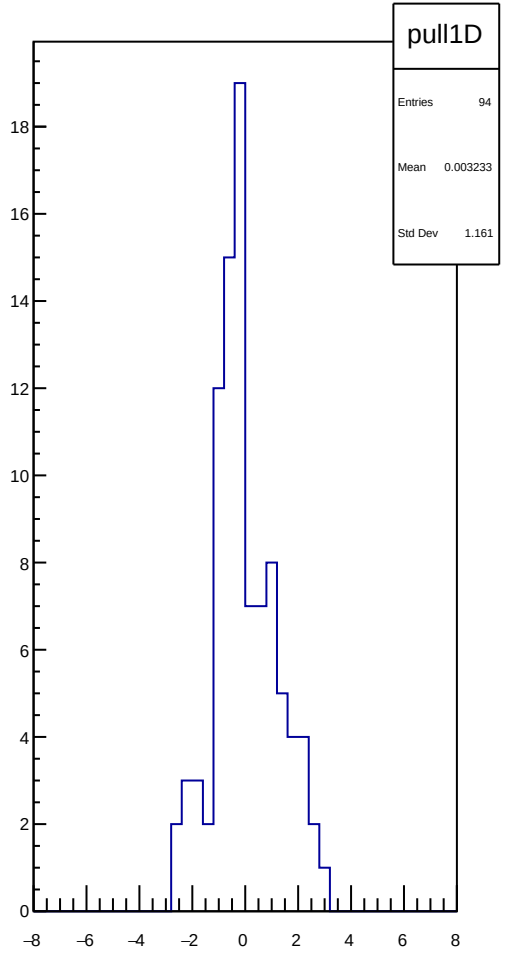

asym_sam5_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.77e+04 / 93
p0 138.8 ± 0.1043
300
250
200
150
100

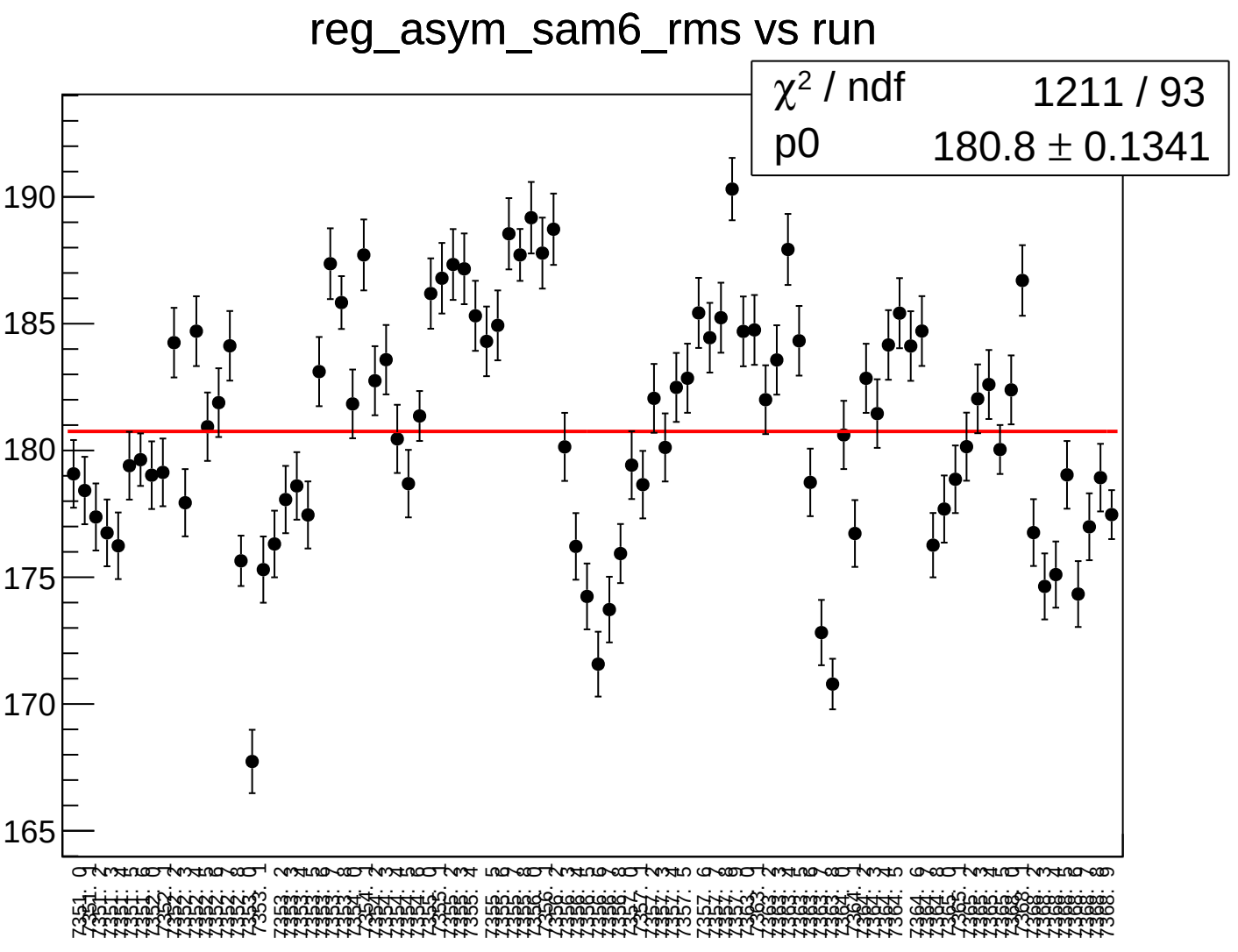

asym_sam5_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 124 / 93
p0 −1.125e−14 ± 1.206e−14
pull
Entries 94
Mean 307.2
Std Dev 0

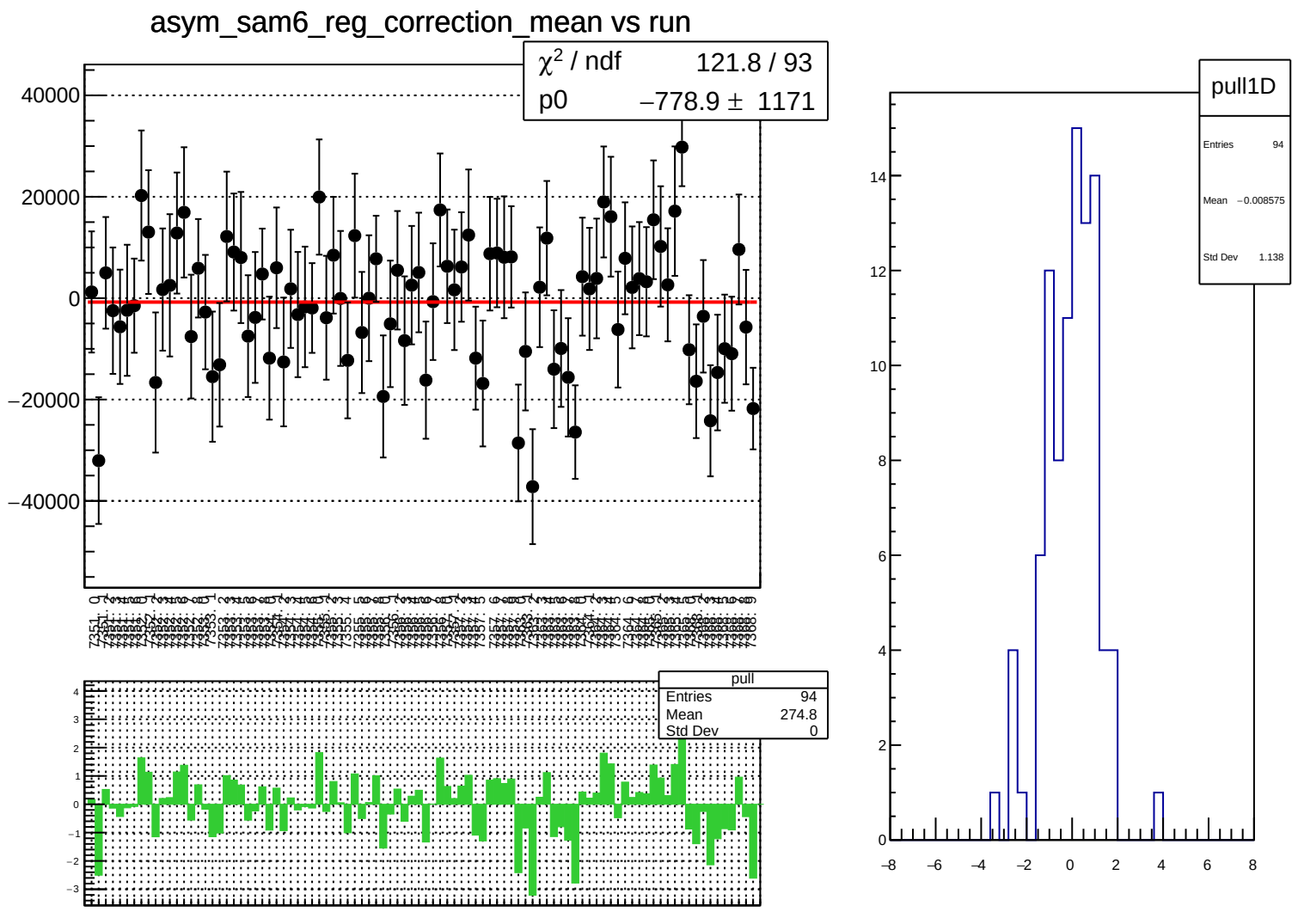

pull1D
Entries 94
Mean −0.01674
Std Dev 1.149

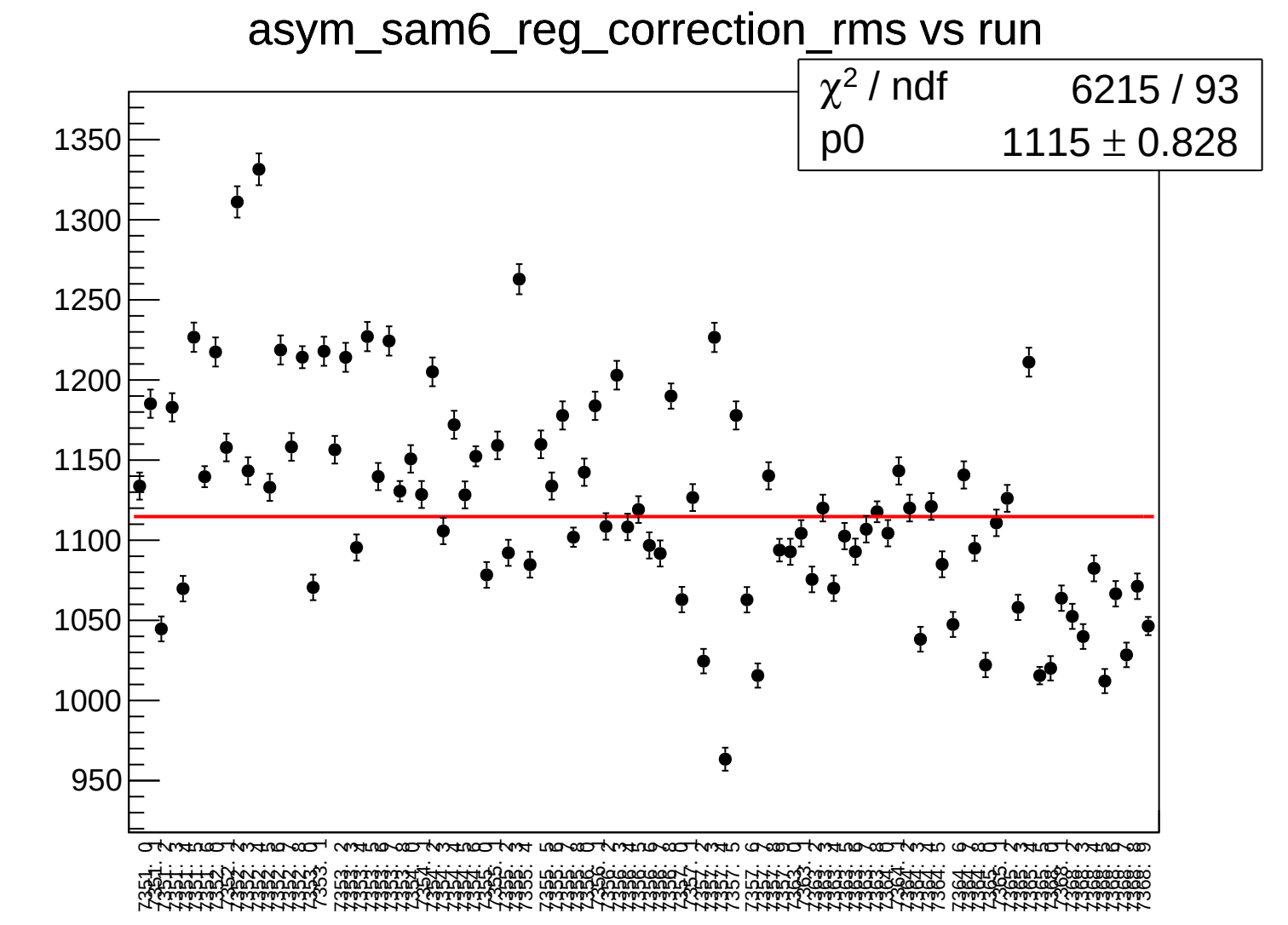

asym_sam5_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.895e+05 / 93
p0 8.649e−12 ± 8.526e−15
90
80
70
60
50
40
30
20
10

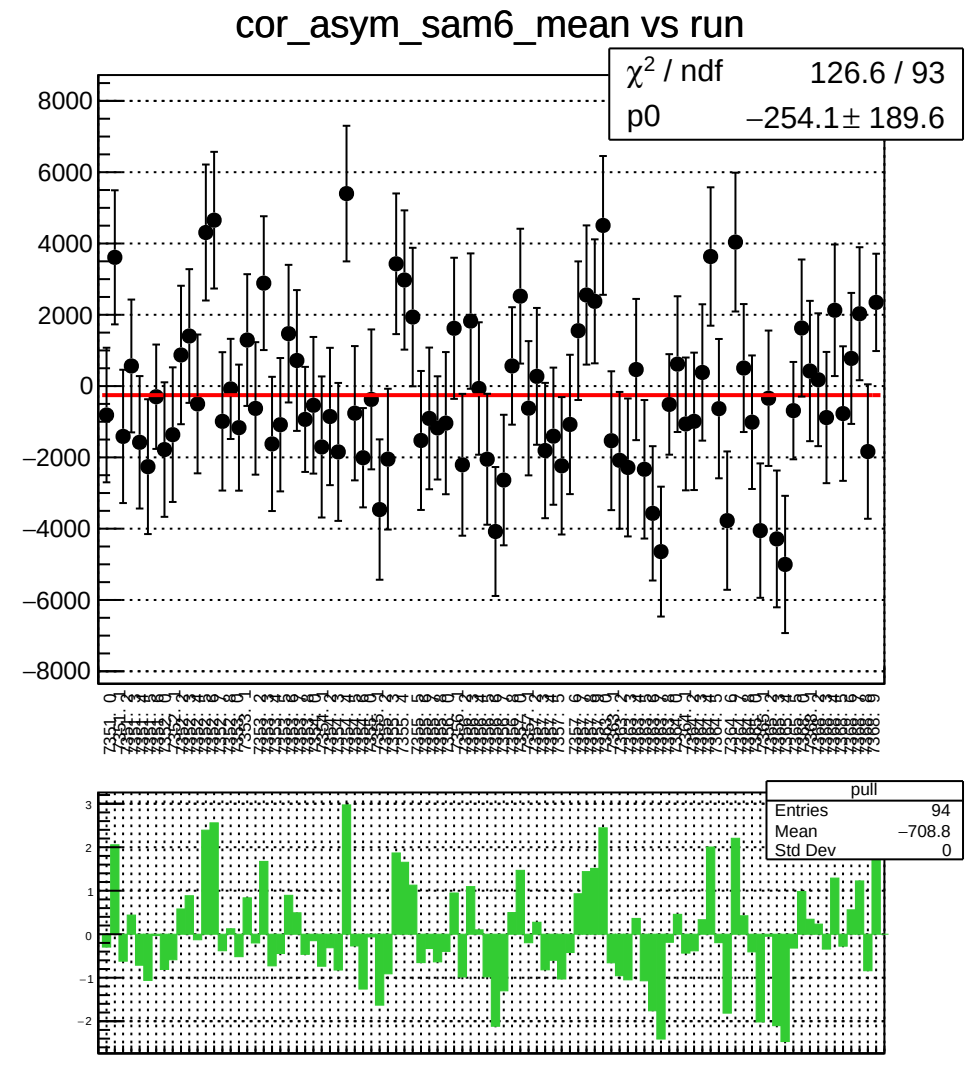

reg_asym_sam6_mean vs run
χ² / ndf 126.6 / 93
p0 −254.1± 189.6
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 94
Mean −709.9
Std Dev 0
3
2
1
0
−1
−2

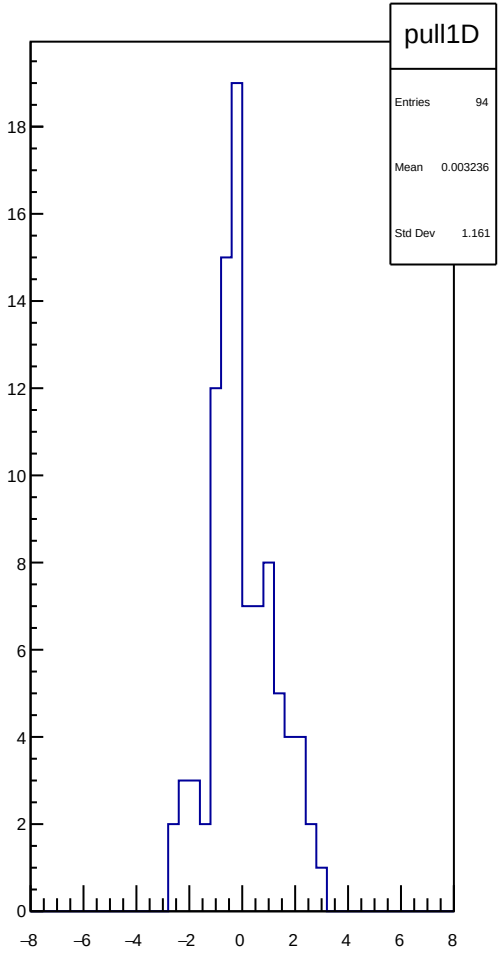

pull1D
Entries 94
Mean 0.003233
Std Dev 1.161
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

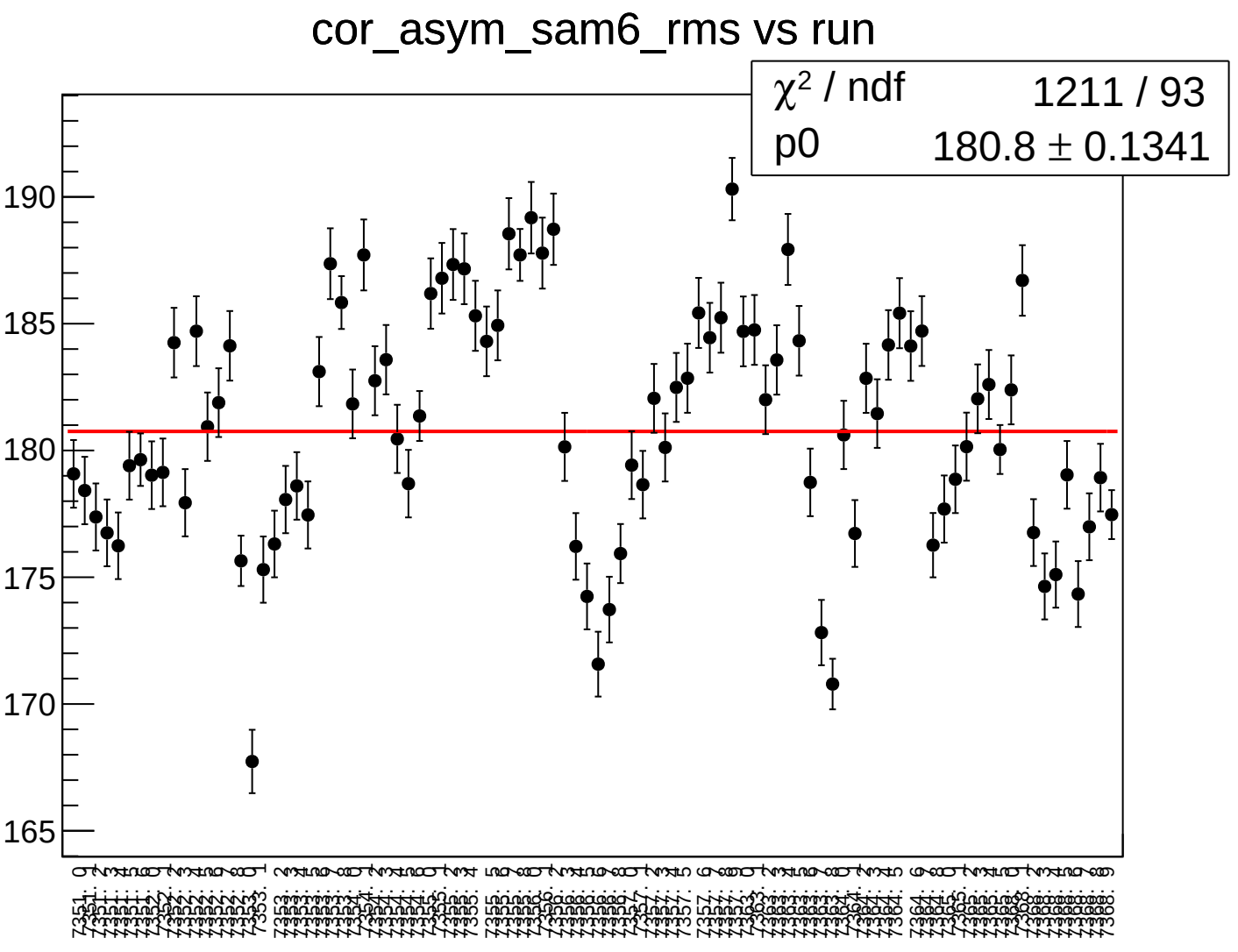

reg_asym_sam6_rms vs run
χ² / ndf 1211 / 93
p0 180.8 ± 0.1341
190
185
180
175
170
165

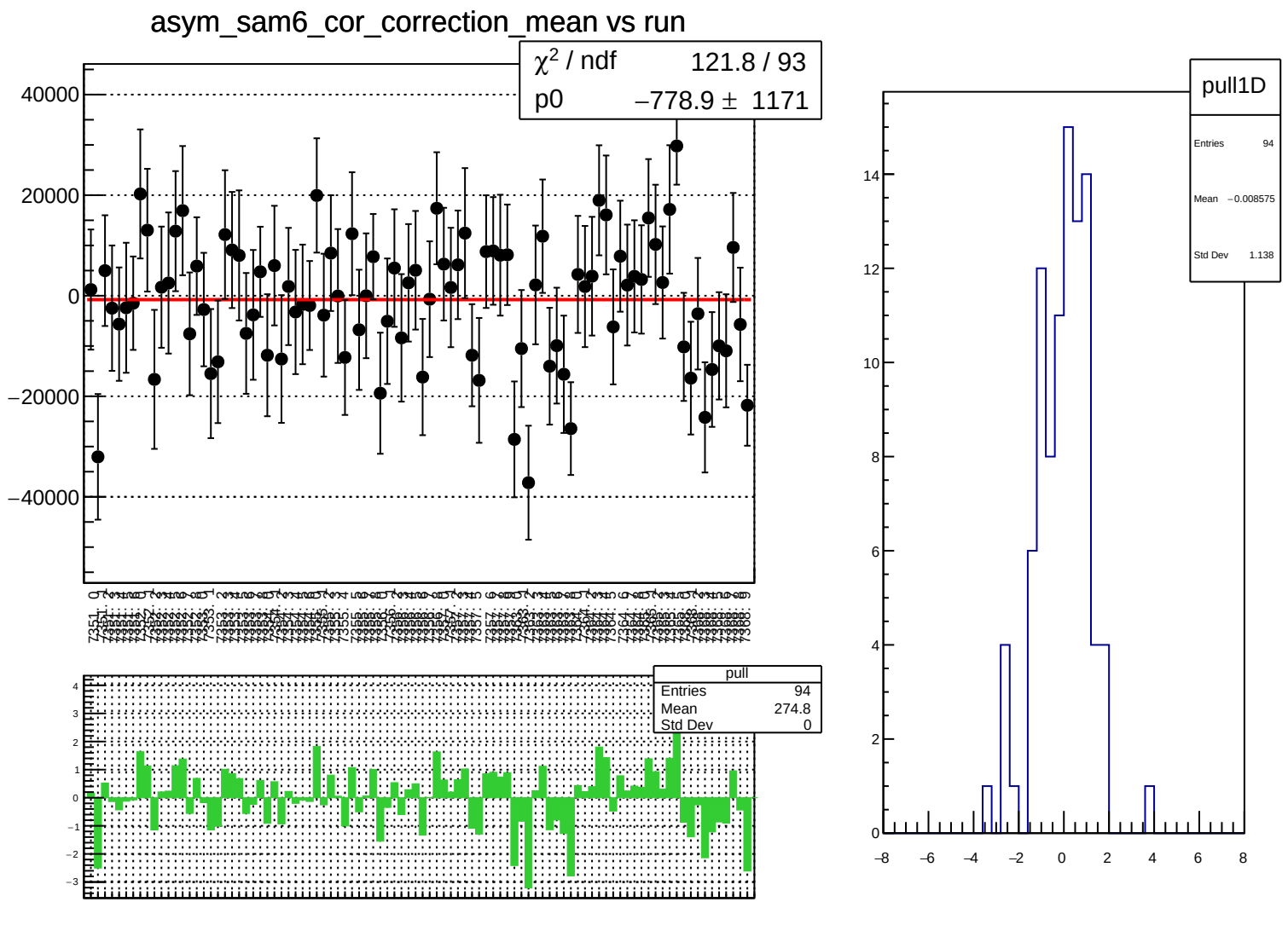

asym_sam6_reg_correction_mean vs run
χ² / ndf 121.8 / 93
p0 −778.9 ± 1171
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 274.8
Std Dev 0
pull1D
Entries 94
Mean −0.008575
Std Dev 1.138
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

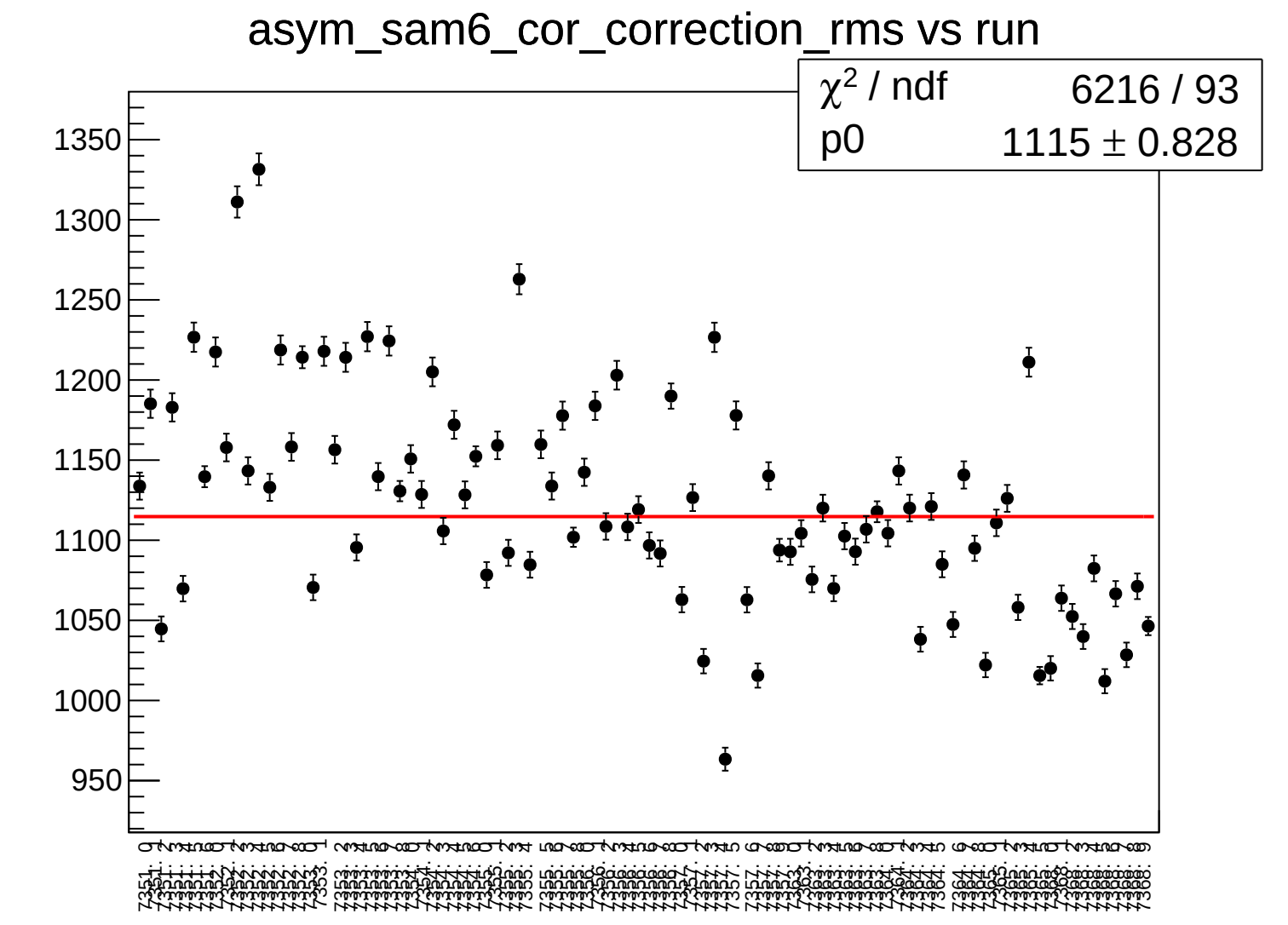

asym_sam6_reg_correction_rms vs run
χ² / ndf 6215 / 93
p0 1115 ± 0.828
1350
1300
1250
1200
1150
1100
1050
1000
950

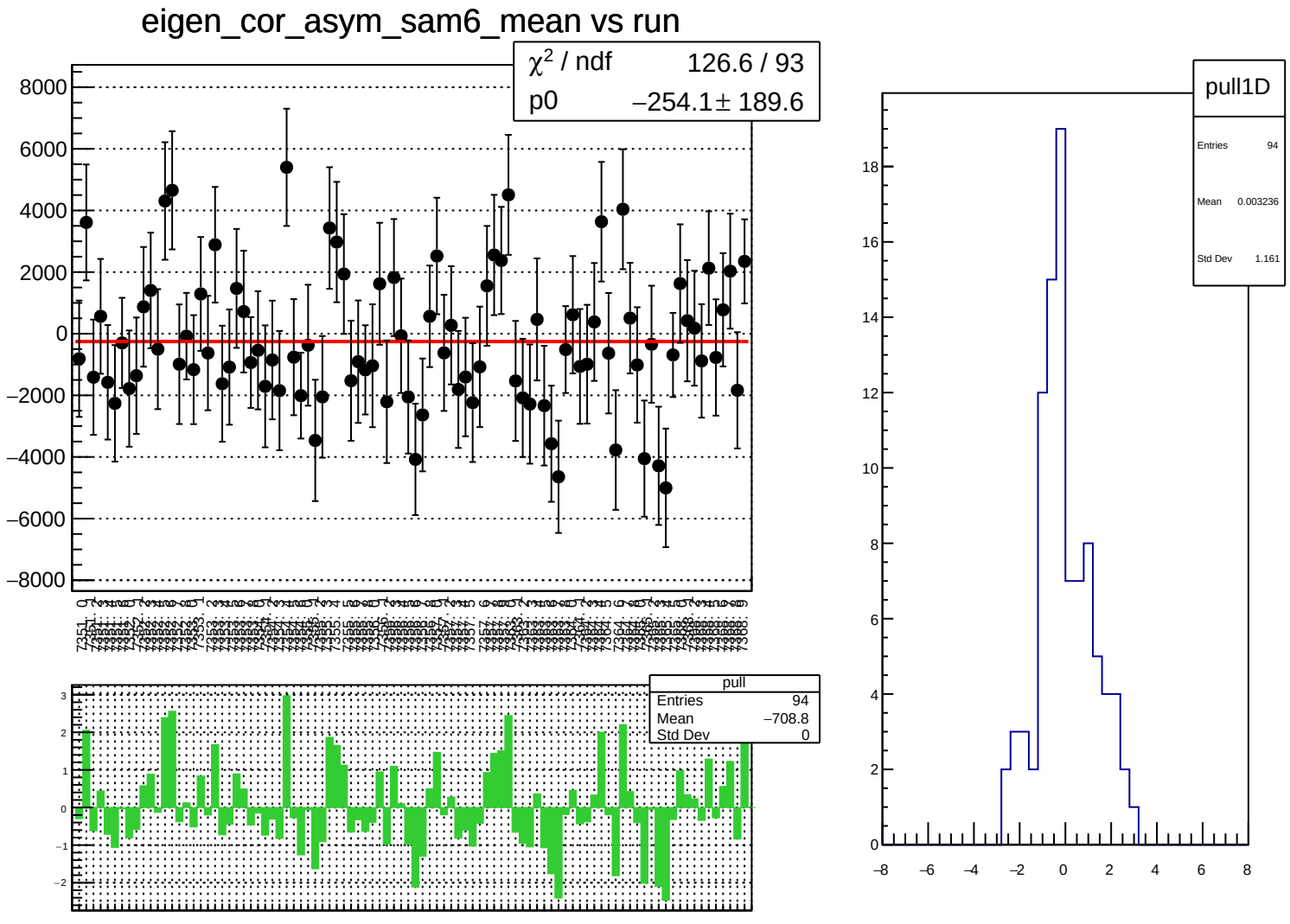

cor_asym_sam6_mean vs run
χ² / ndf 126.6 / 93
p0 −254.1± 189.6
pull
Entries 94
Mean −708.8
Std Dev 0

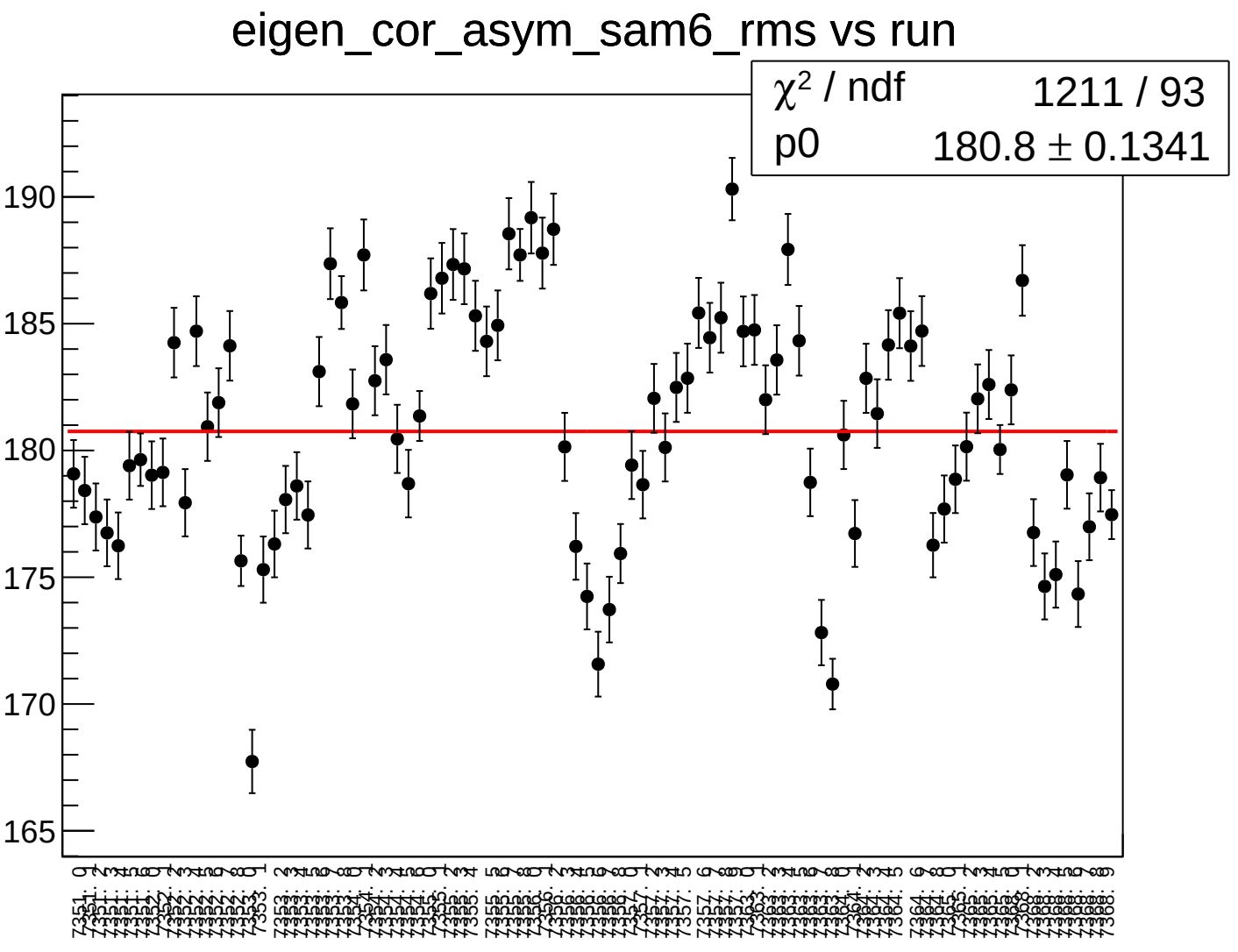

pull1D
Entries 94
Mean 0.003236
Std Dev 1.161

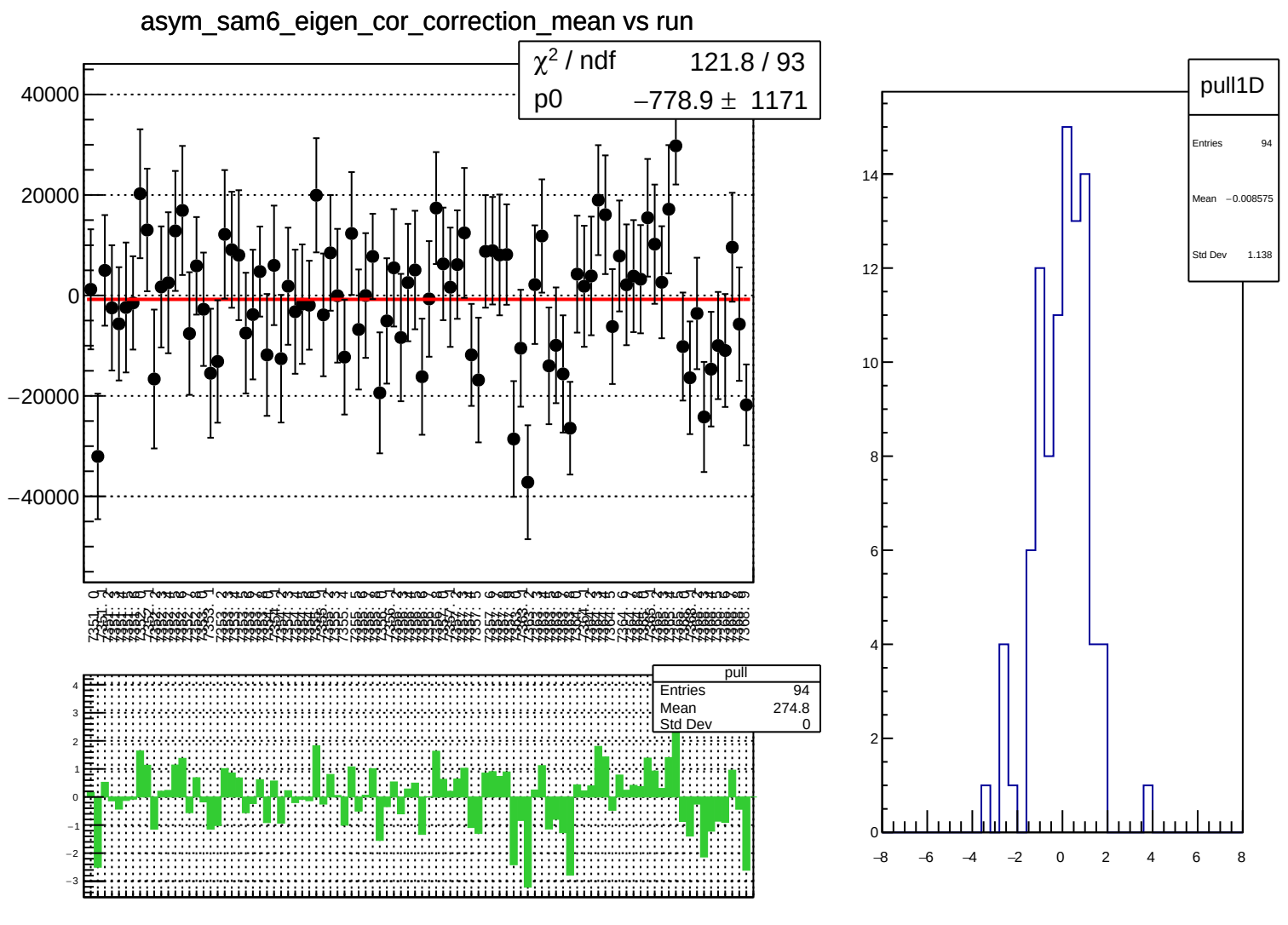

cor_asym_sam6_rms vs run
χ² / ndf 1211 / 93
p0 180.8 ± 0.1341
190
185
180
175
170
165

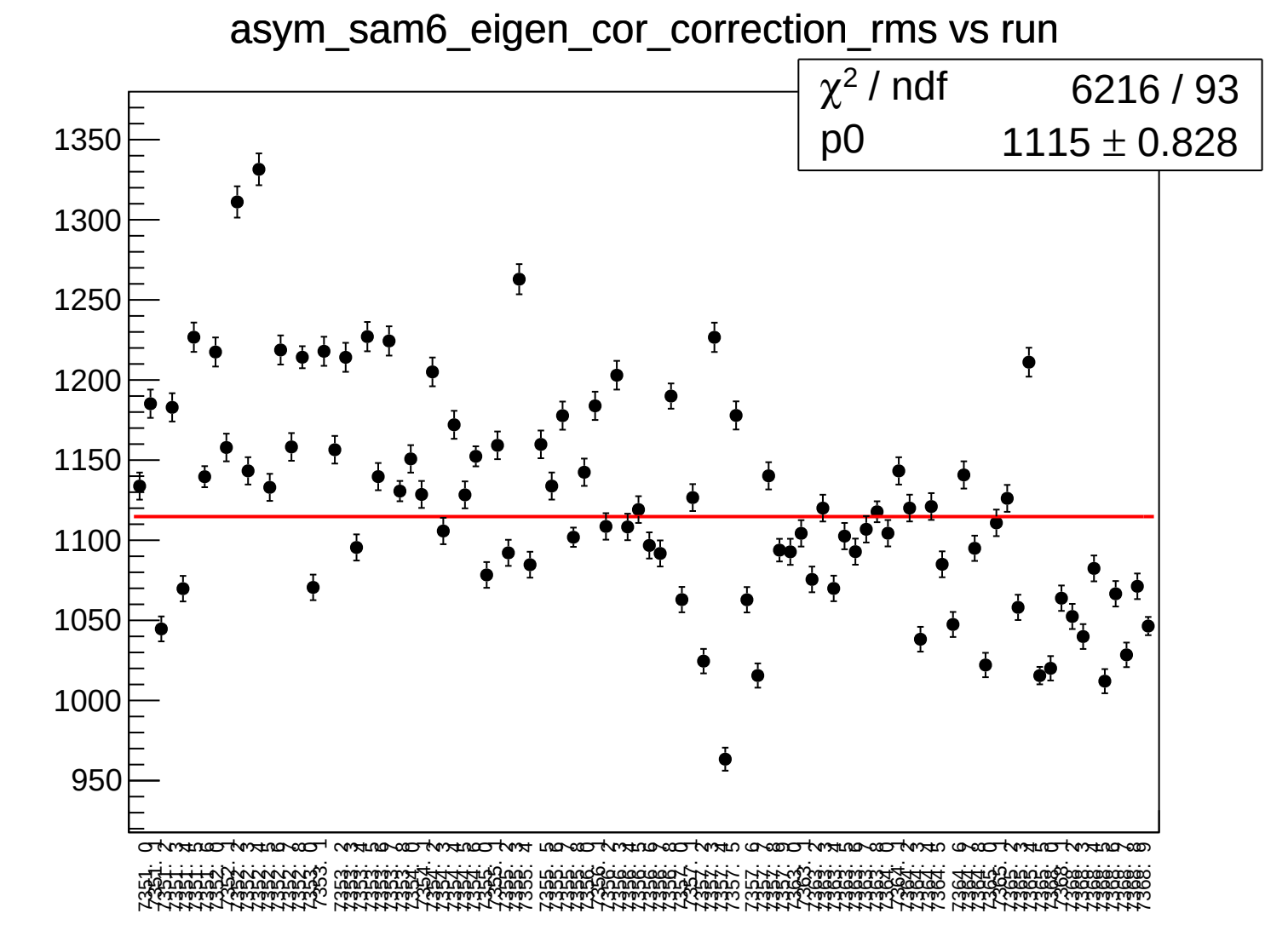

asym_sam6_cor_correction_mean vs run
χ² / ndf 121.8 / 93
p0 −778.9 ± 1171
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 274.8
Std Dev 0
pull1D
Entries 94
Mean −0.008575
Std Dev 1.138

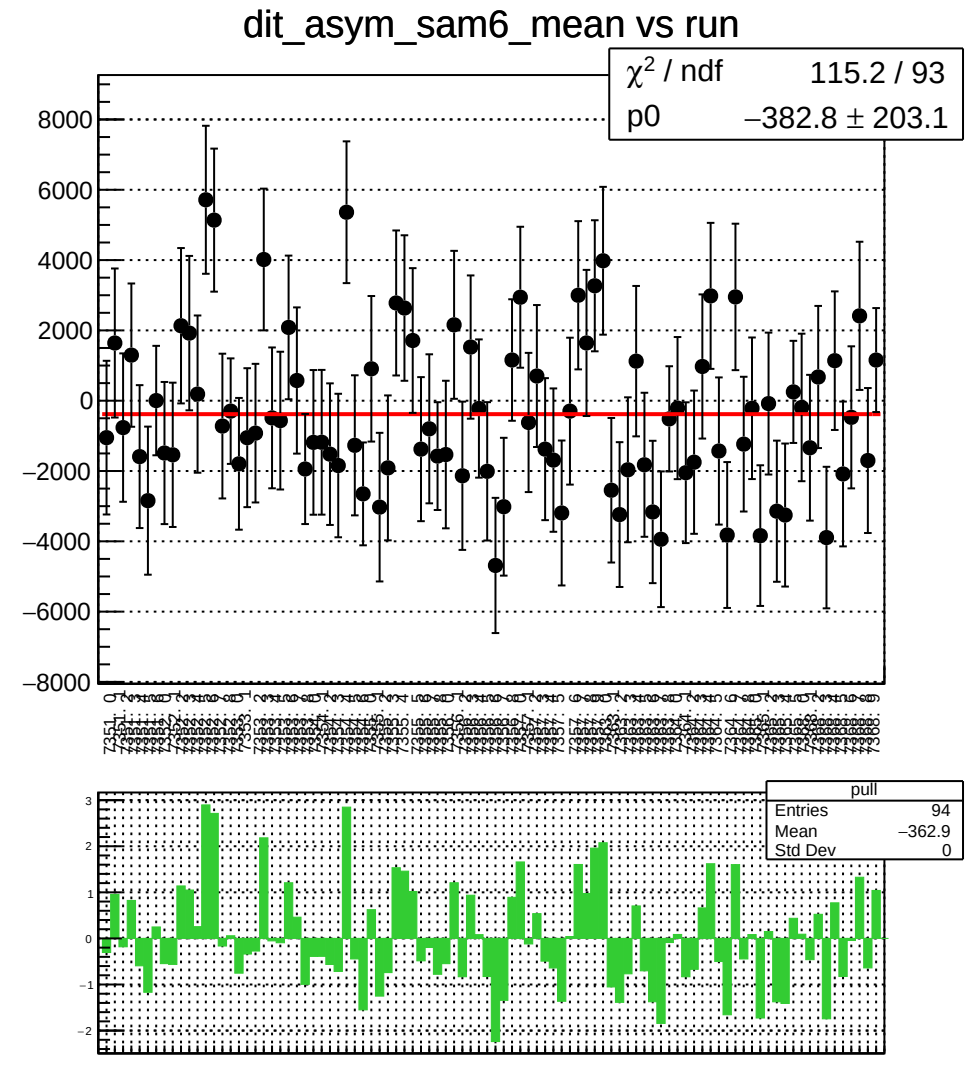

asym_sam6_cor_correction_rms vs run
χ² / ndf 6216 / 93
p0 1115 ± 0.828
1350
1300
1250
1200
1150
1100
1050
1000
950

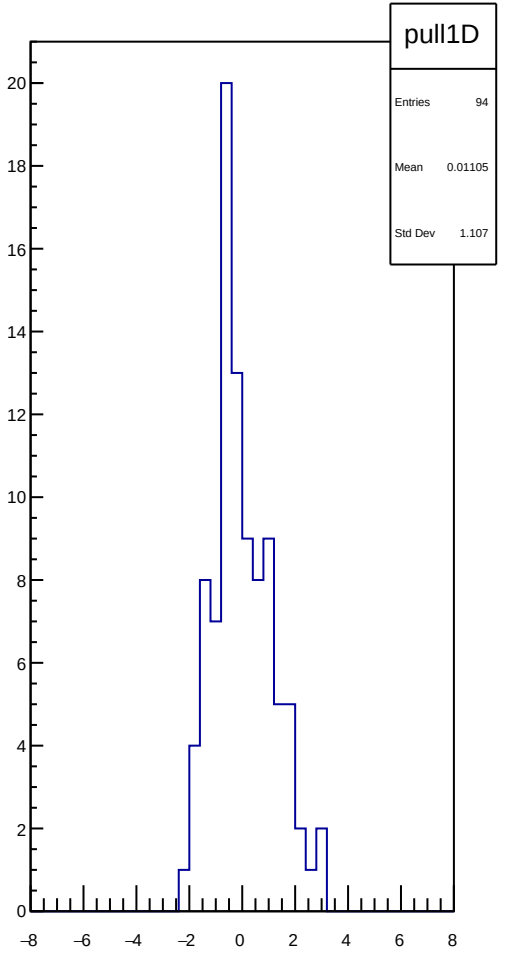

eigen_cor_asym_sam6_mean vs run
χ² / ndf 126.6 / 93
p0 −254.1± 189.6
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 94
Mean −708.8
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.003236
Std Dev 1.161
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

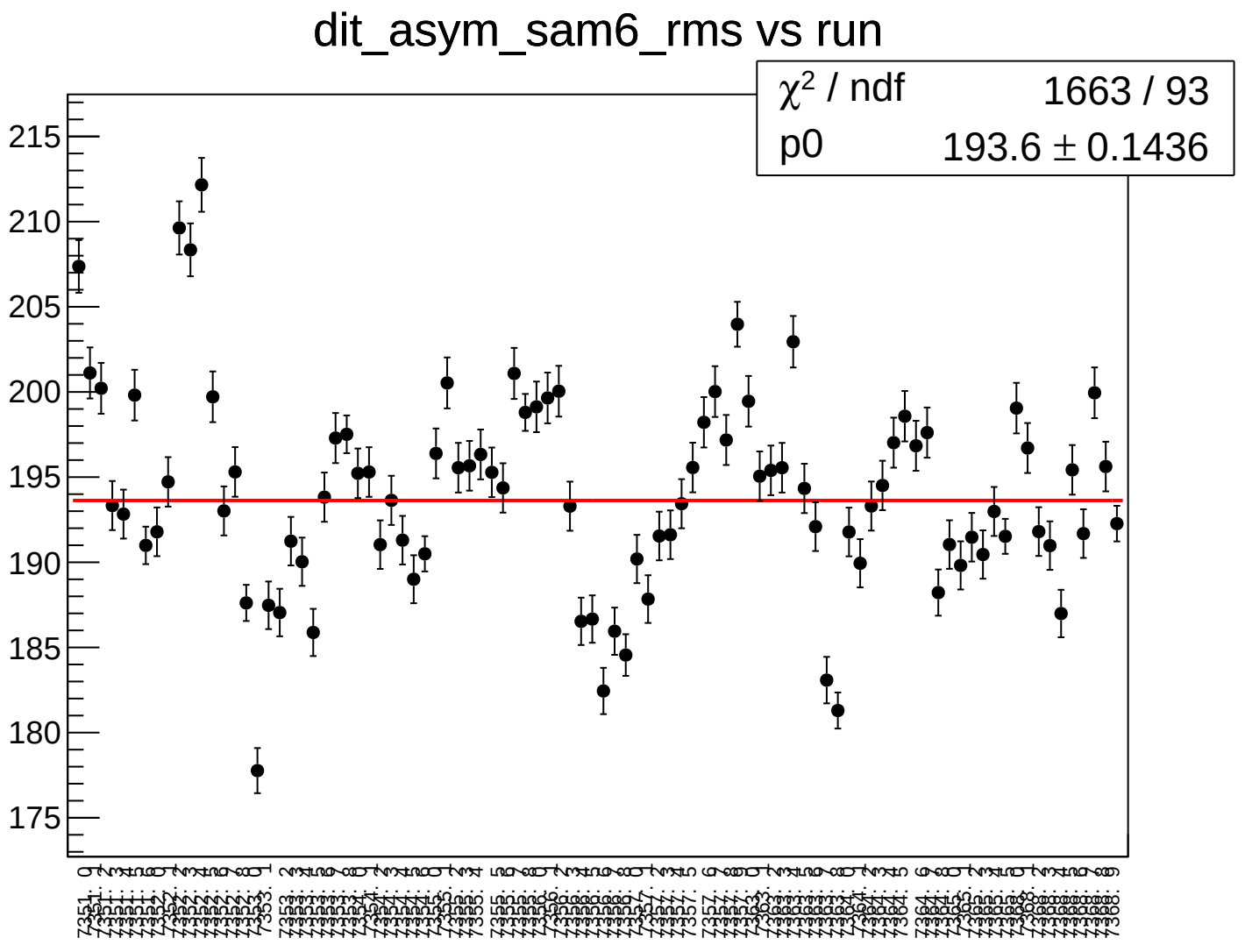

eigen_cor_asym_sam6_rms vs run
χ² / ndf 1211 / 93
p0 180.8 ± 0.1341
190
185
180
175
170
165

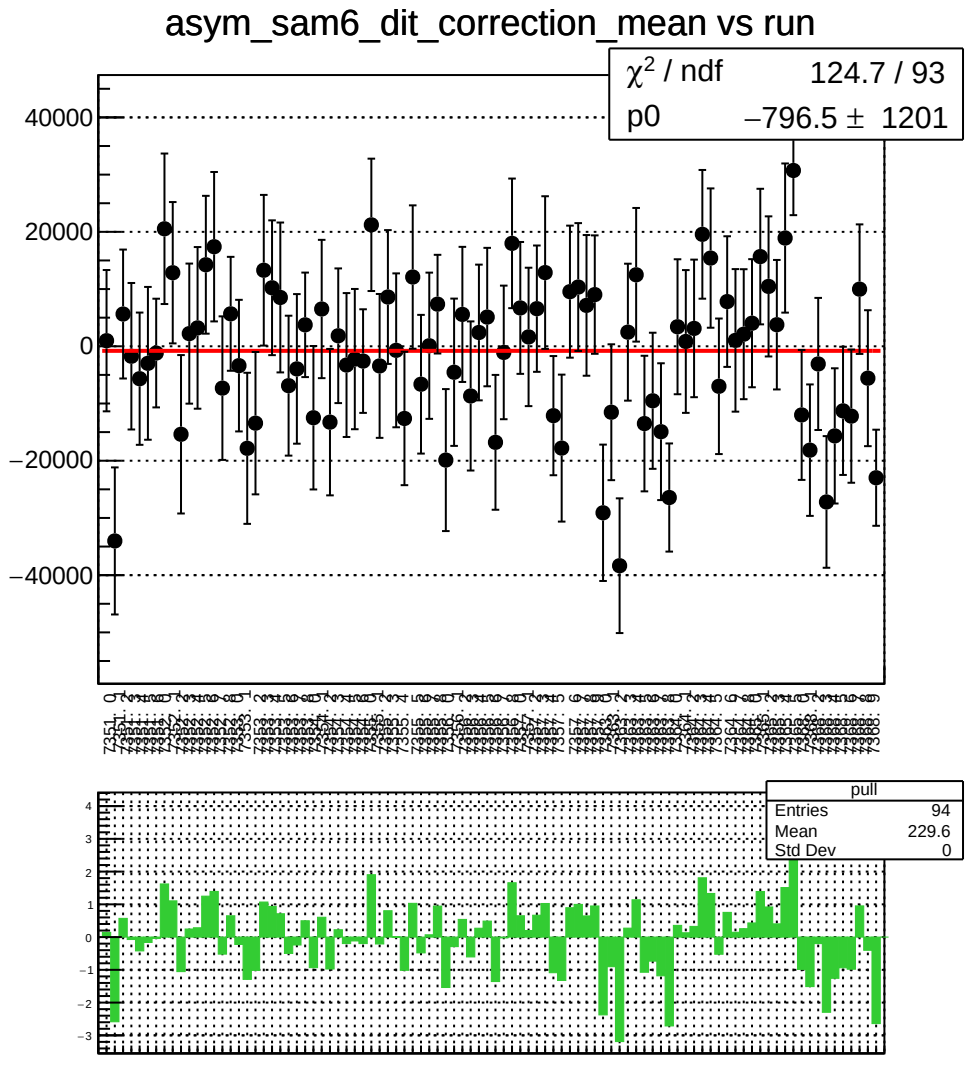

asym_sam6_eigen_cor_correction_mean vs run
χ² / ndf 121.8 / 93
p0 −778.9 ± 1171
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 274.8
Std Dev 0
pull1D
Entries 94
Mean −0.008575
Std Dev 1.138

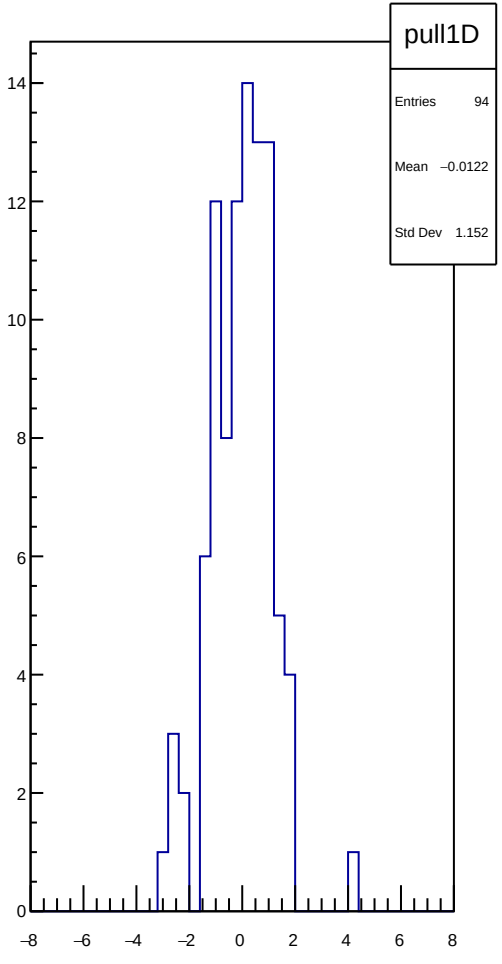

asym_sam6_eigen_cor_correction_rms vs run
χ^2 / ndf 6216 / 93
p0 1115 ± 0.828
1350
1300
1250
1200
1150
1100
1050
1000
950

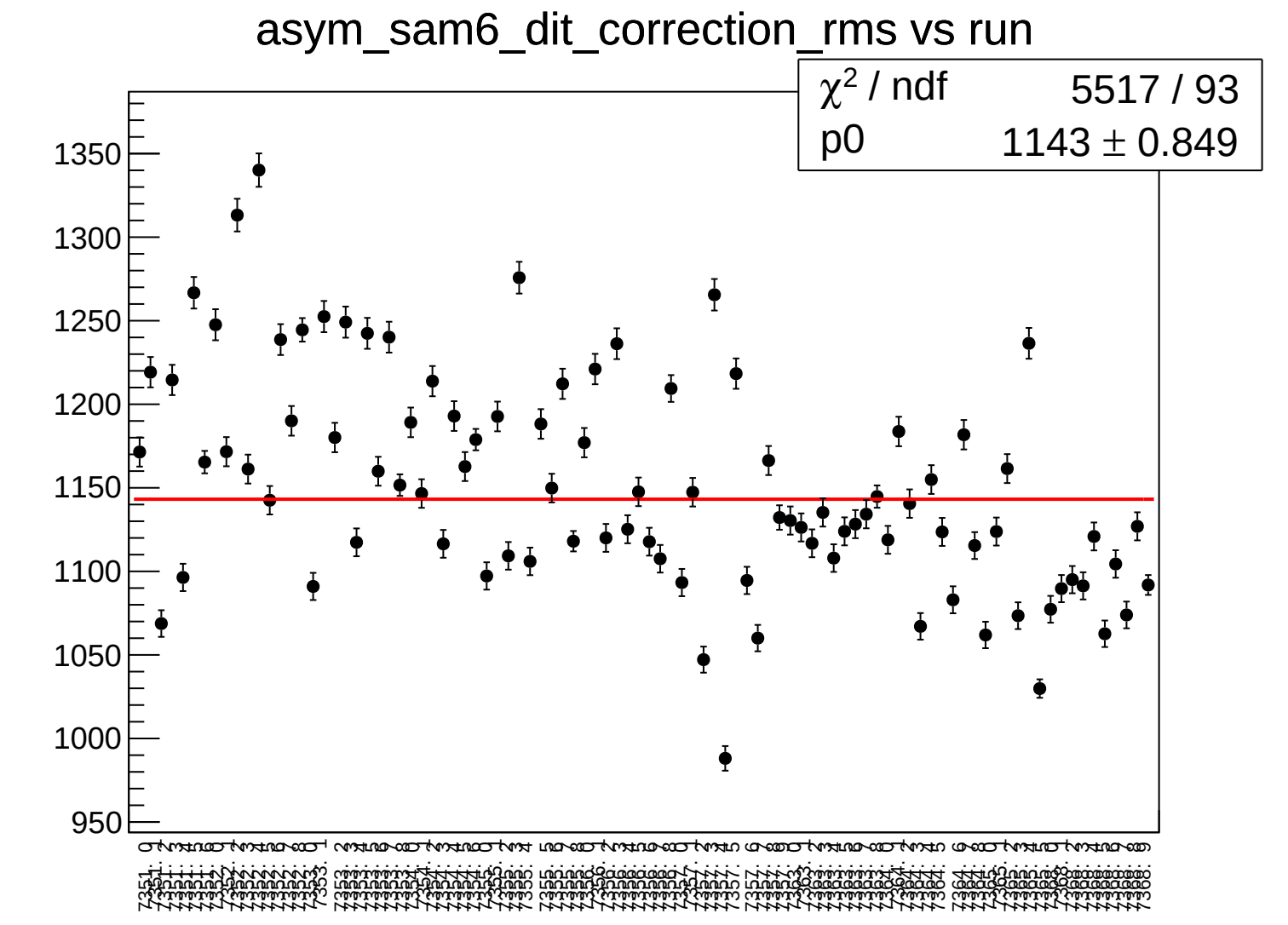

dit_asym_sam6_mean vs run
χ² / ndf 115.2 / 93
p0 −382.8 ± 203.1
pull
Entries 94
Mean −362.9
Std Dev 0

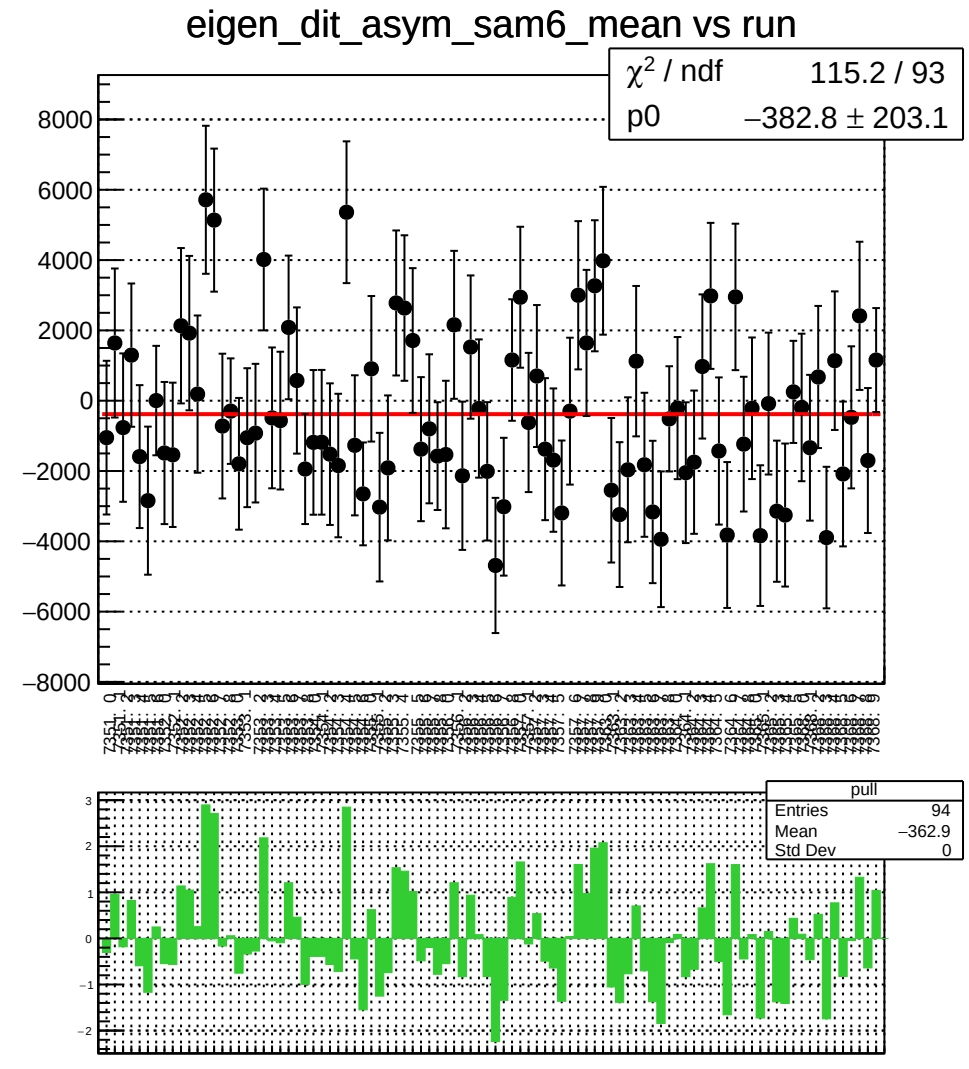

pull1D
Entries 94
Mean 0.01105
Std Dev 1.107

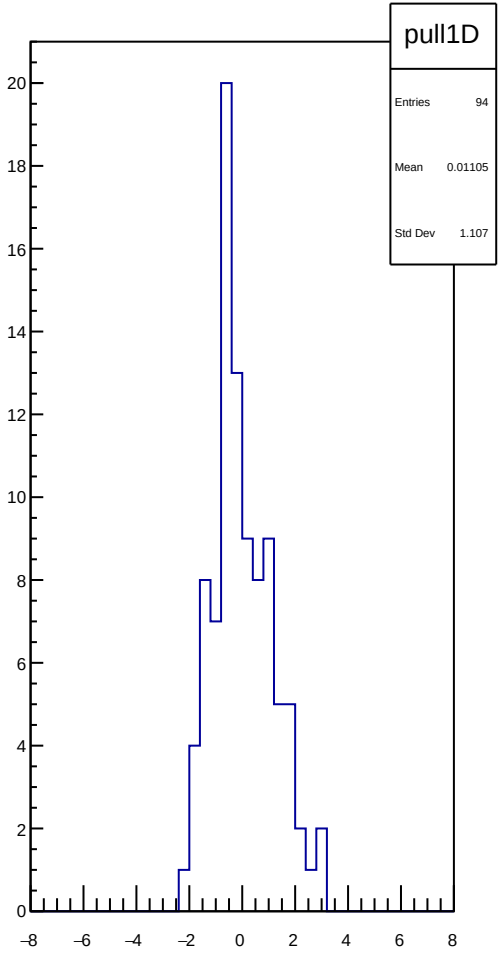

dit_asym_sam6_rms vs run
χ² / ndf 1663 / 93
p0 193.6 ± 0.1436
215
210
205
200
195
190
185
180
175

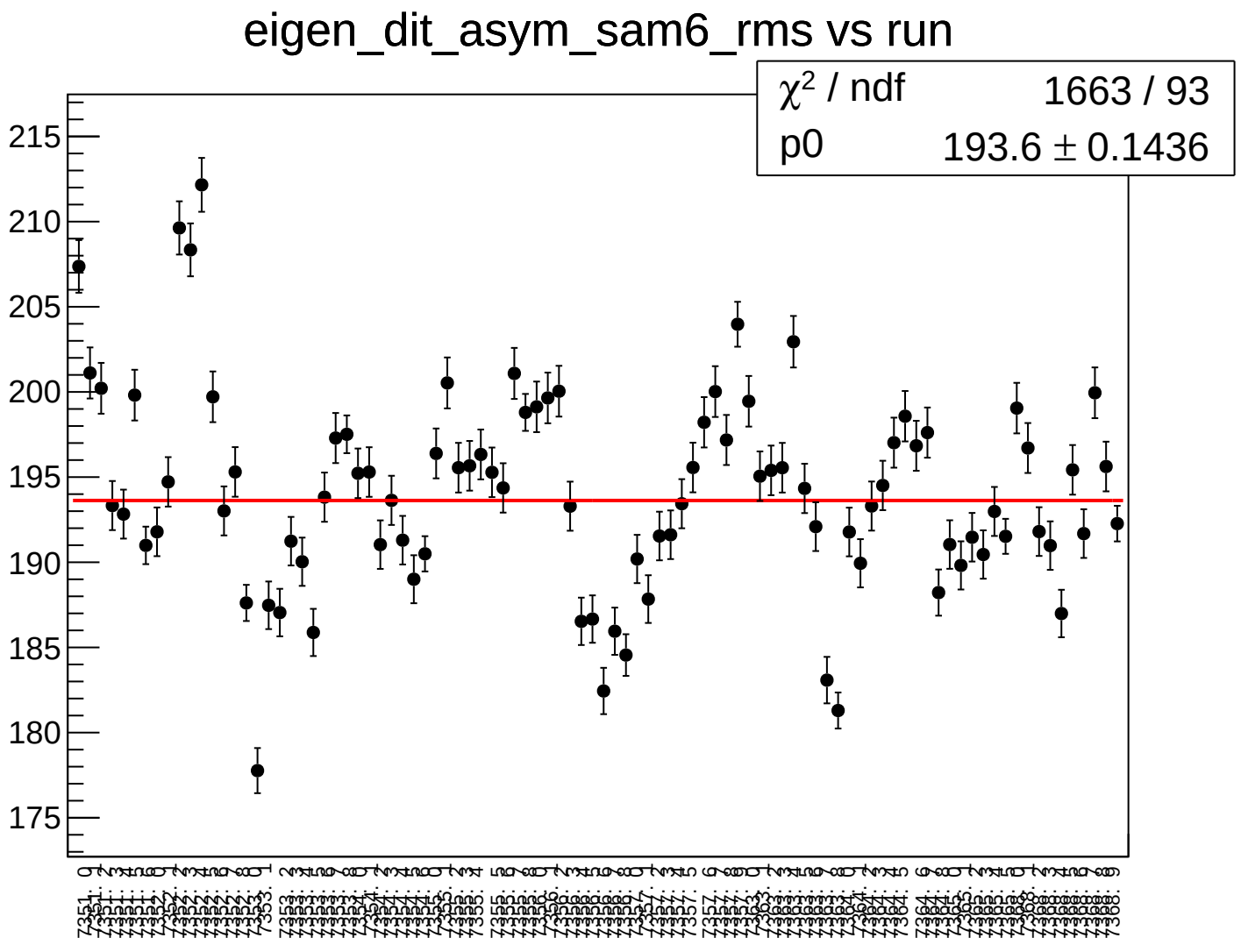

asym_sam6_dit_correction_mean vs run
χ² / ndf 124.7 / 93
p0 −796.5 ± 1201
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 229.6
Std Dev 0
4
3
2
1
0
−1
−2
−3

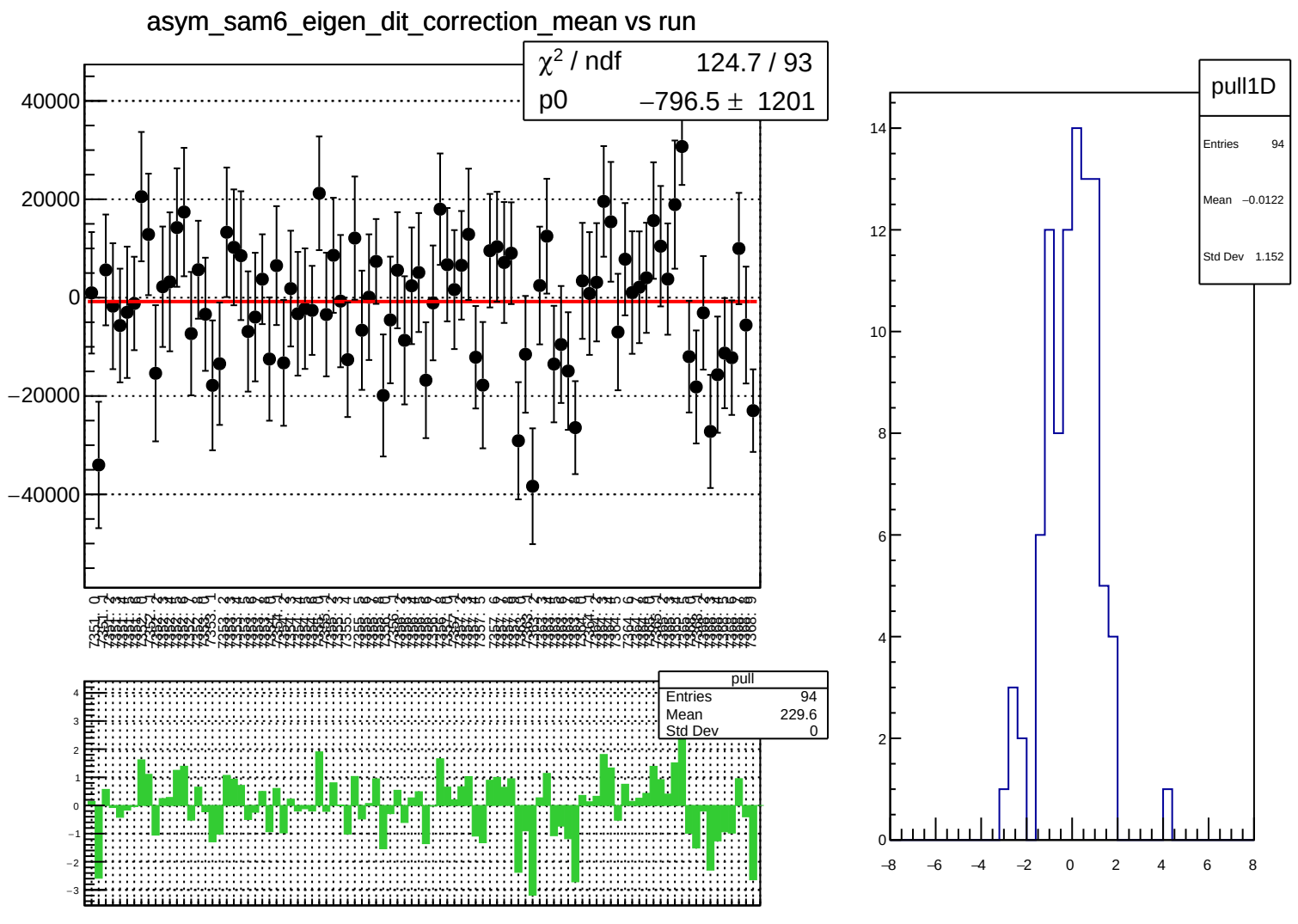

pull1D
Entries 94
Mean −0.0122
Std Dev 1.152
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

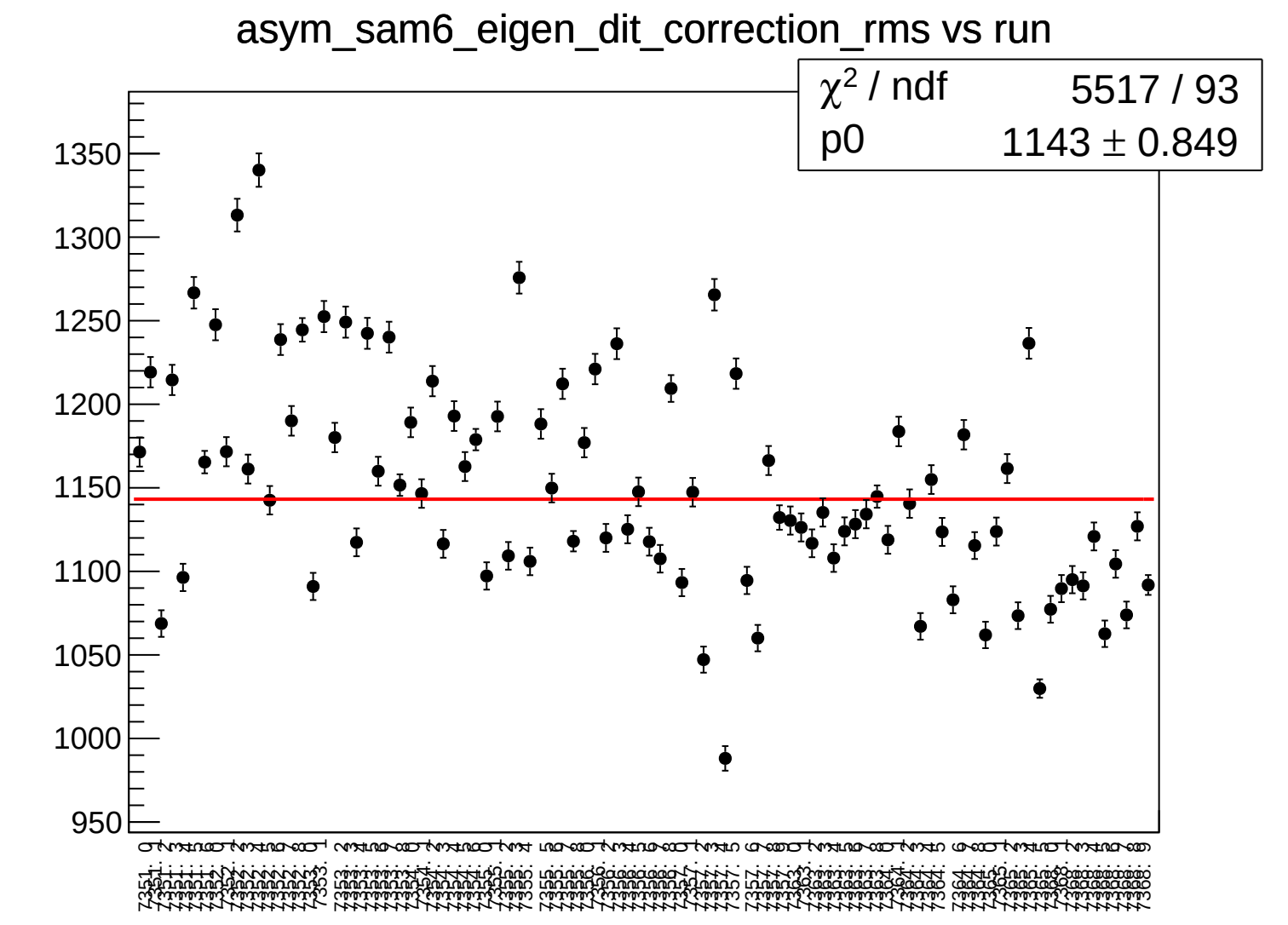

asym_sam6_dit_correction_rms vs run
χ^2 / ndf 5517 / 93
p0 1143 ± 0.849
1350
1300
1250
1200
1150
1100
1050
1000
950

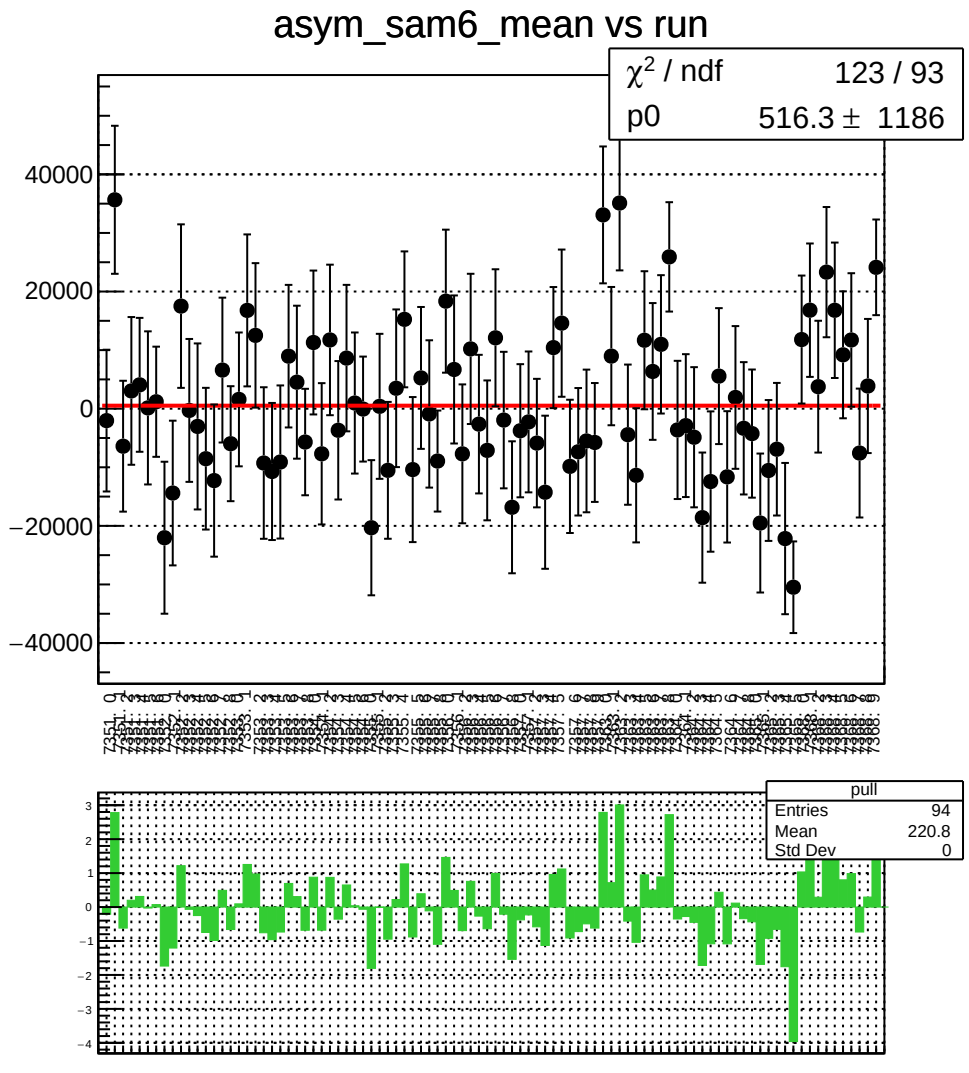

eigen_dit_asym_sam6_mean vs run
χ² / ndf 115.2 / 93
p0 −382.8 ± 203.1
pull
Entries 94
Mean −362.9
Std Dev 0

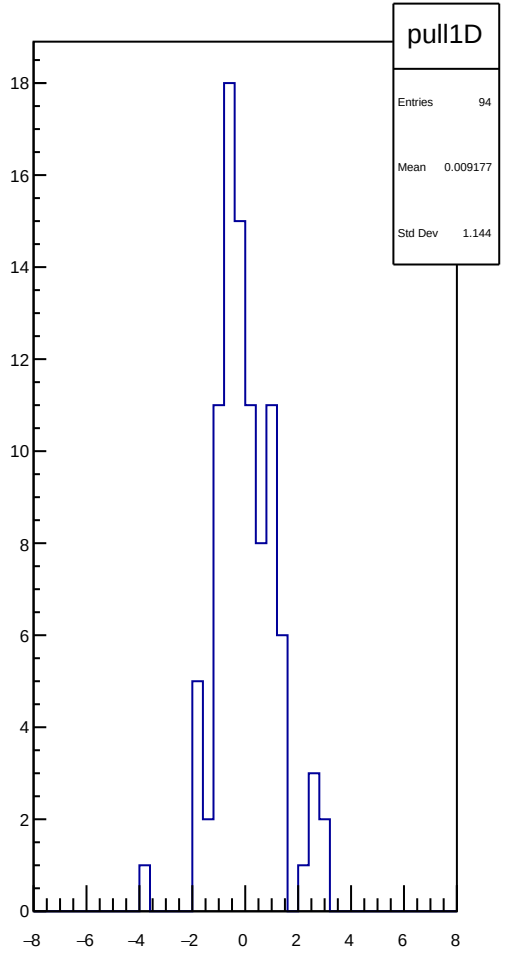

pull1D
Entries 94
Mean 0.01105
Std Dev 1.107

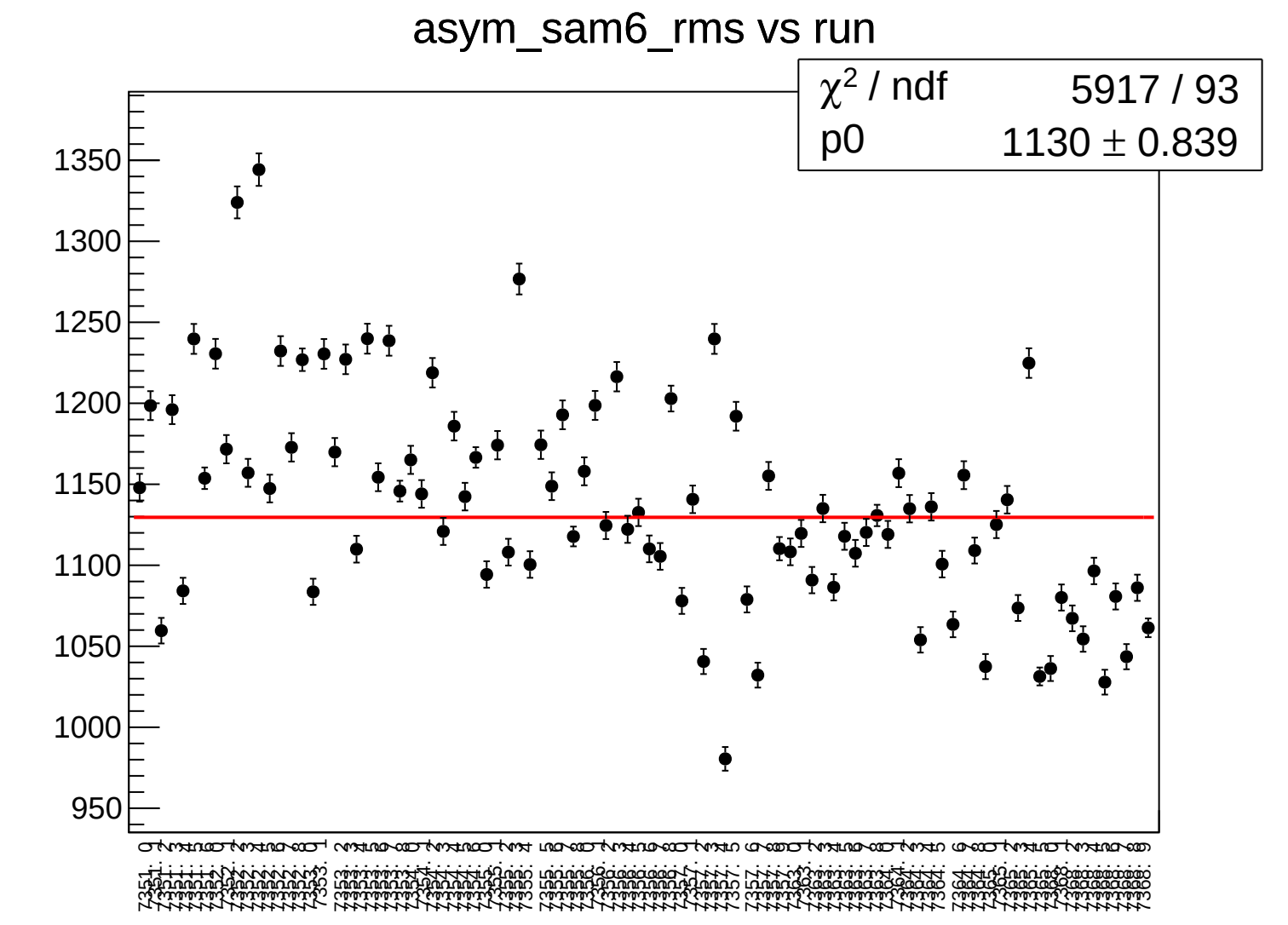

eigen_dit_asym_sam6_rms vs run
χ² / ndf 1663 / 93
p0 193.6 ± 0.1436
215
210
205
200
195
190
185
180
175

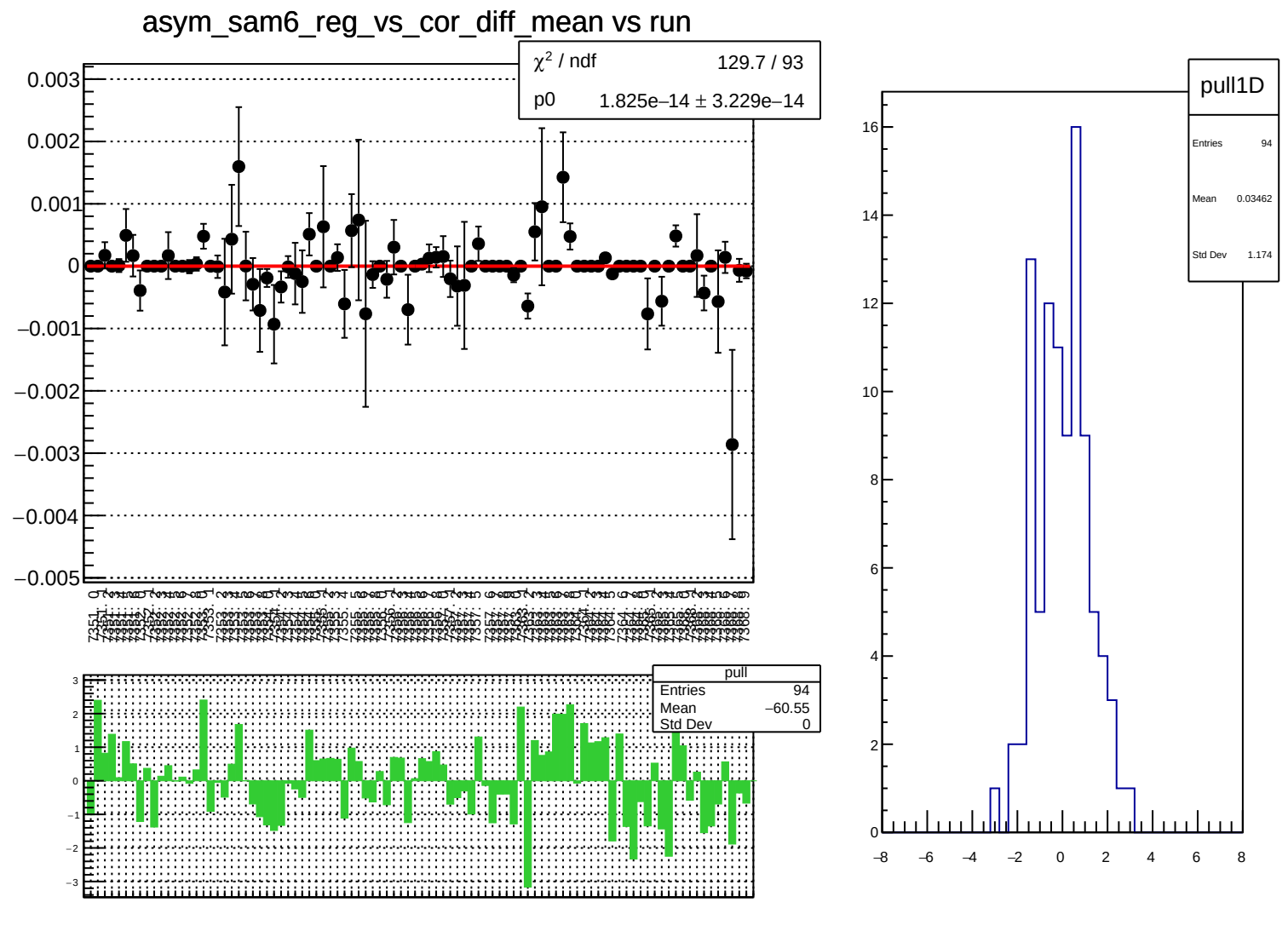

asym_sam6_eigen_dit_correction_mean vs run
χ² / ndf 124.7 / 93
p0 −796.5 ± 1201
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 229.6
Std Dev 0
pull1D
Entries 94
Mean −0.0122
Std Dev 1.152

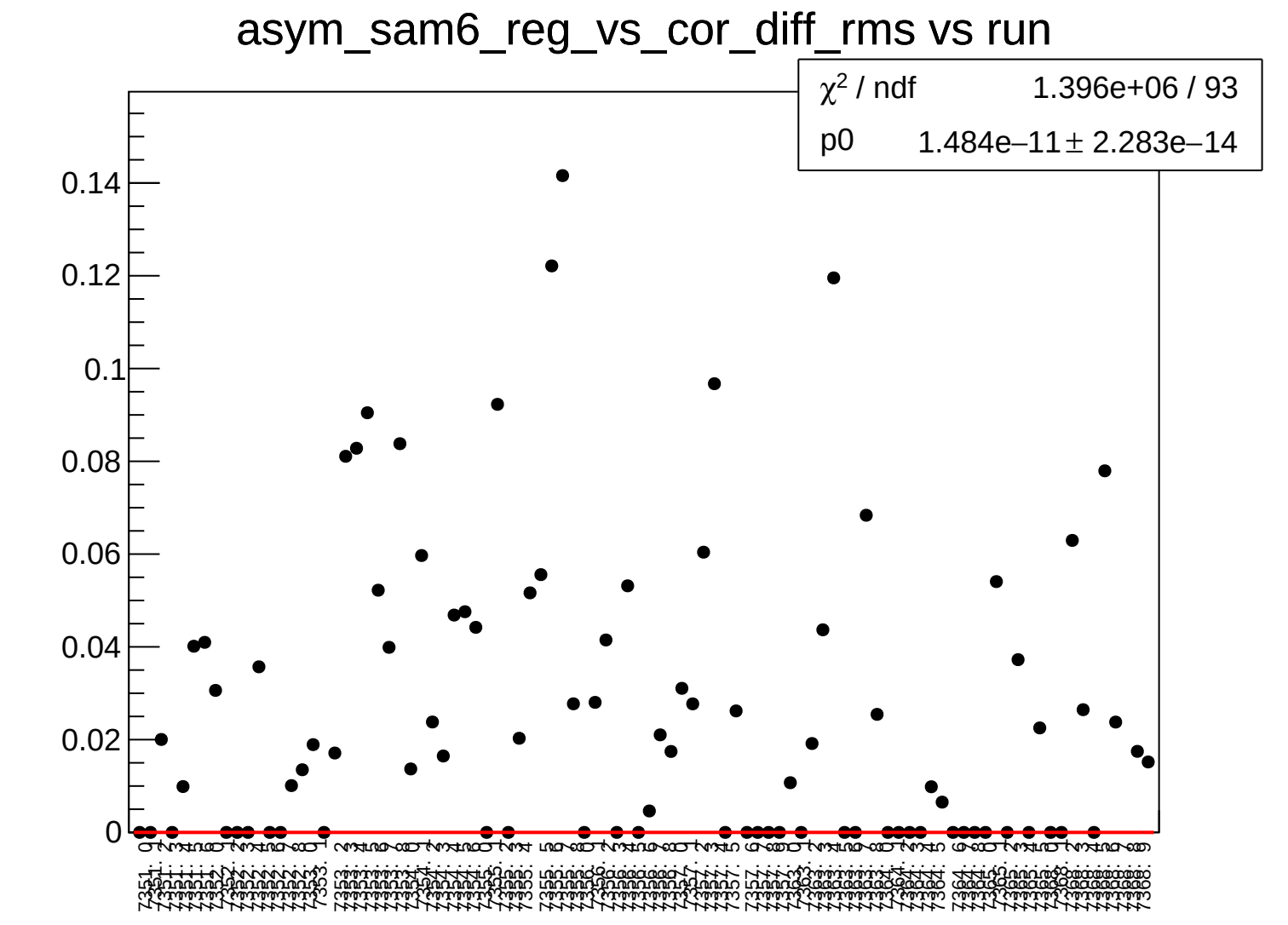

asym_sam6_eigen_dit_correction_rms vs run
χ^2 / ndf 5517 / 93
p0 1143 ± 0.849
1350
1300
1250
1200
1150
1100
1050
1000
950

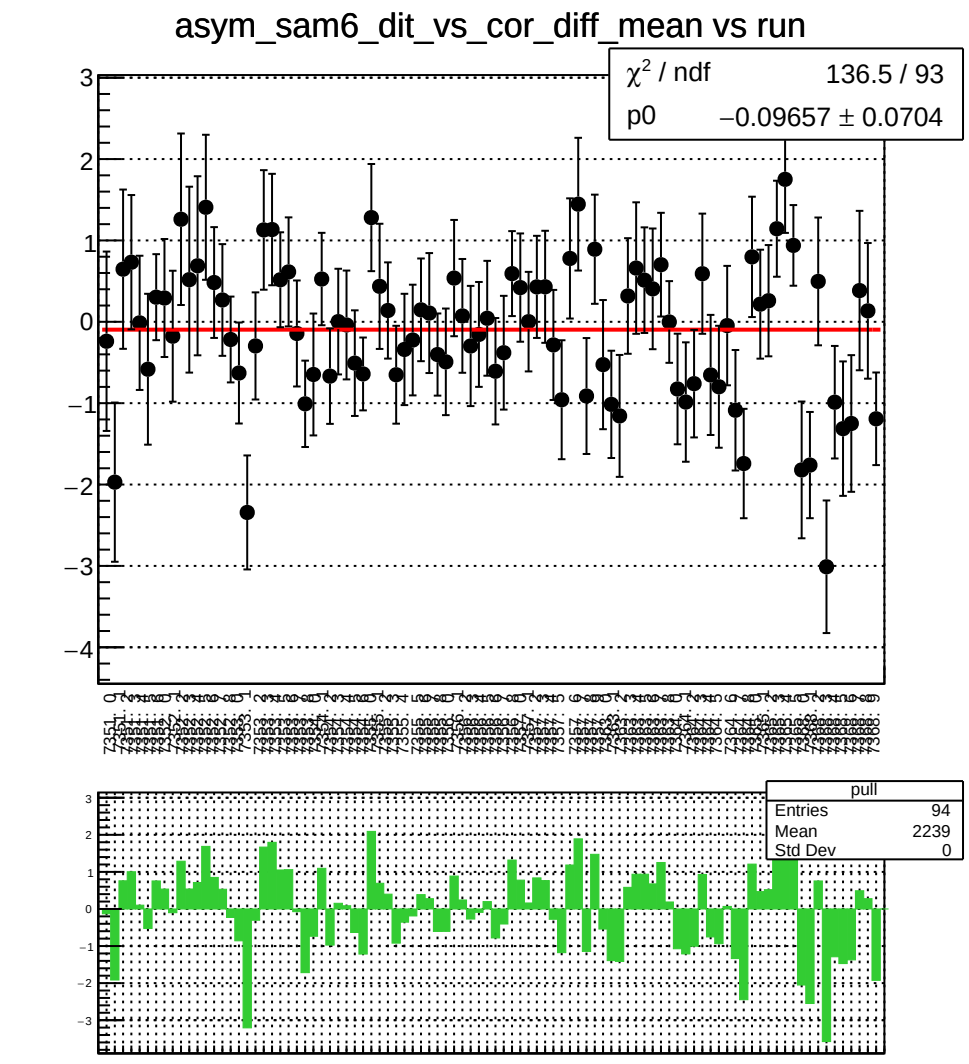

asym_sam6_mean vs run
χ² / ndf 123 / 93
p0 516.3 ± 1186
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 220.8
Std Dev 0
3
2
1
0
−1
−2
−3
−4

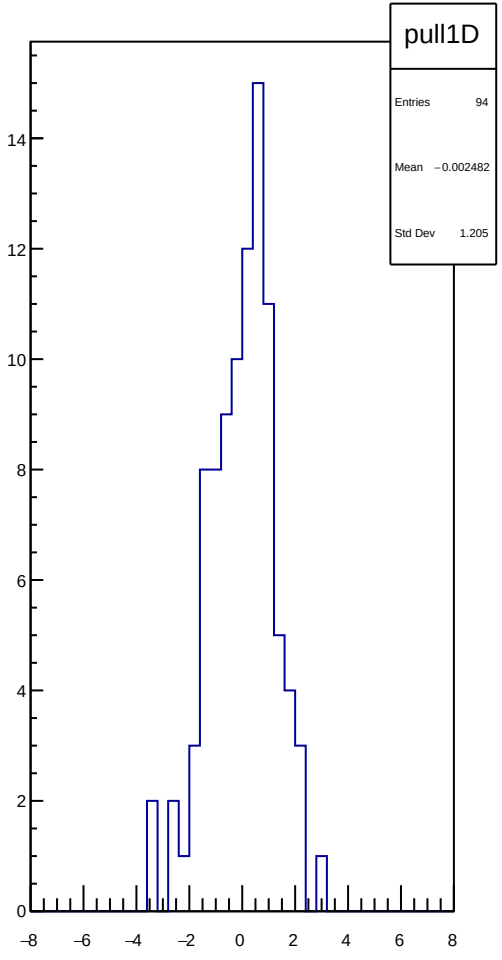

pull1D
Entries 94
Mean 0.009177
Std Dev 1.144
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

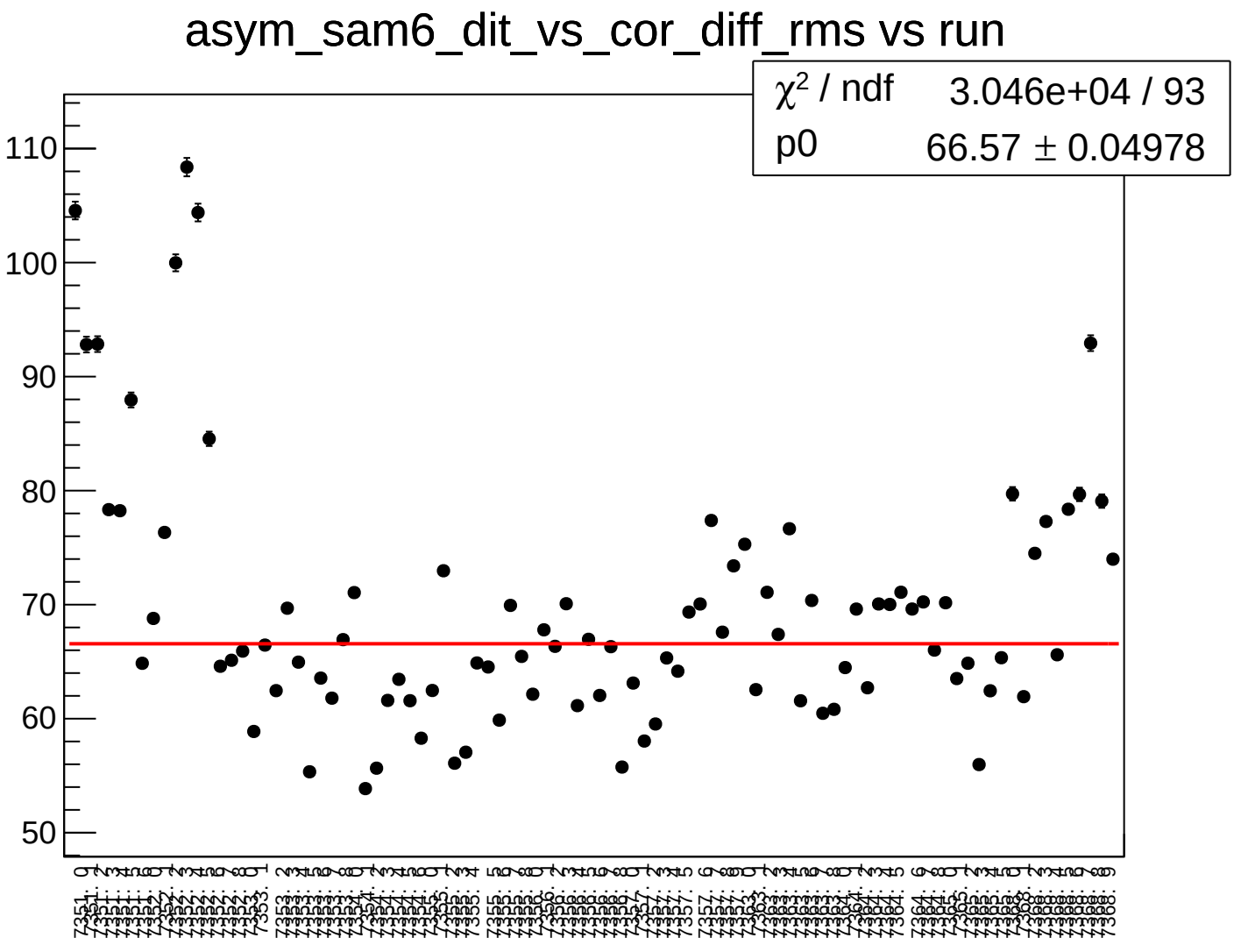

asym_sam6_rms vs run
χ^2 / ndf 5917 / 93
p0 1130 ± 0.839
1350
1300
1250
1200
1150
1100
1050
1000
950

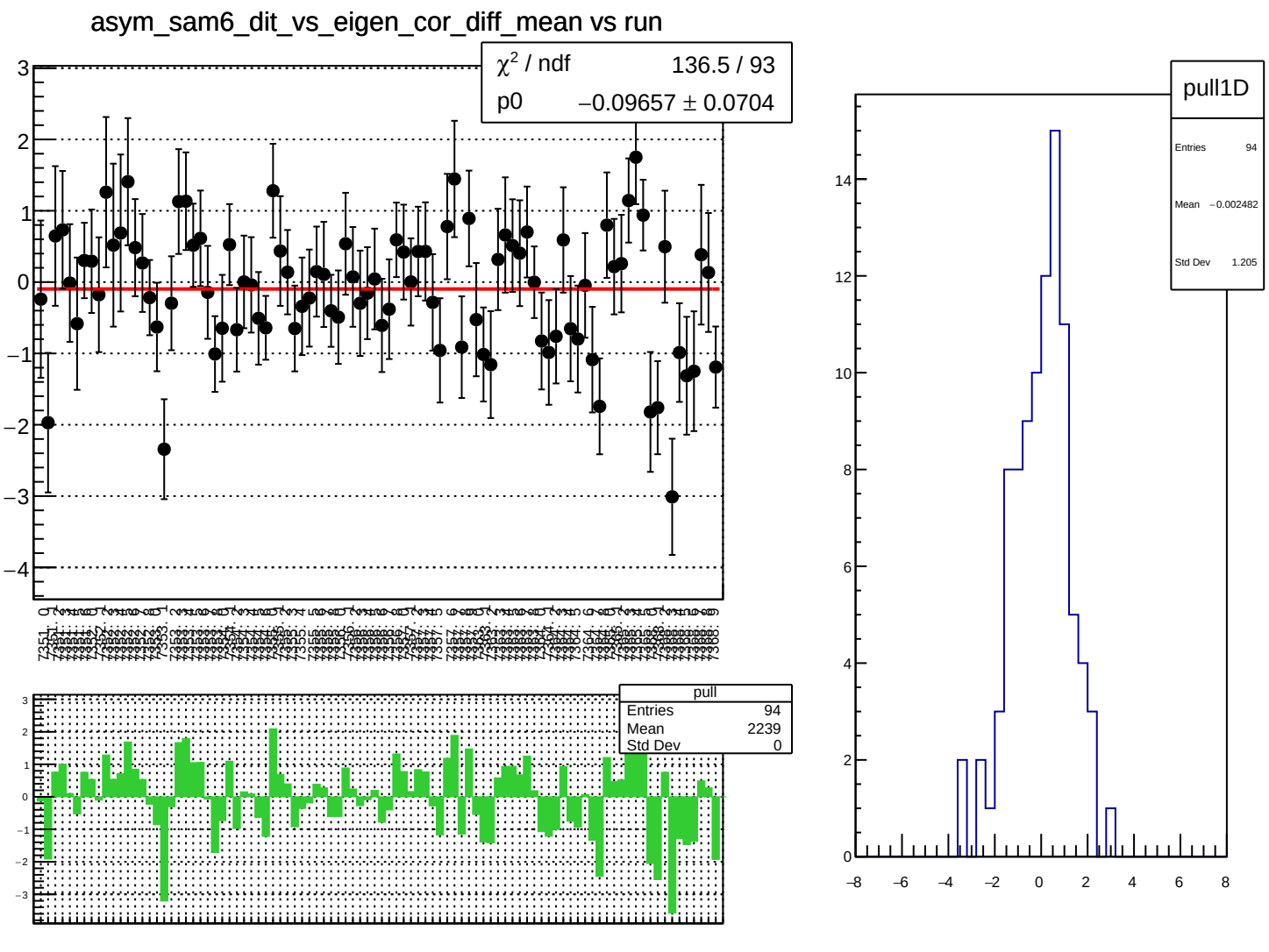

asym_sam6_reg_vs_cor_diff_mean vs run
χ² / ndf 129.7 / 93
p0 1.825e−14 ± 3.229e−14
0.003
0.002
0.001
0
−0.001
−0.002
−0.003
−0.004
−0.005
pull
Entries 94
Mean −60.55
Std Dev 0
pull1D
Entries 94
Mean 0.03462
Std Dev 1.174

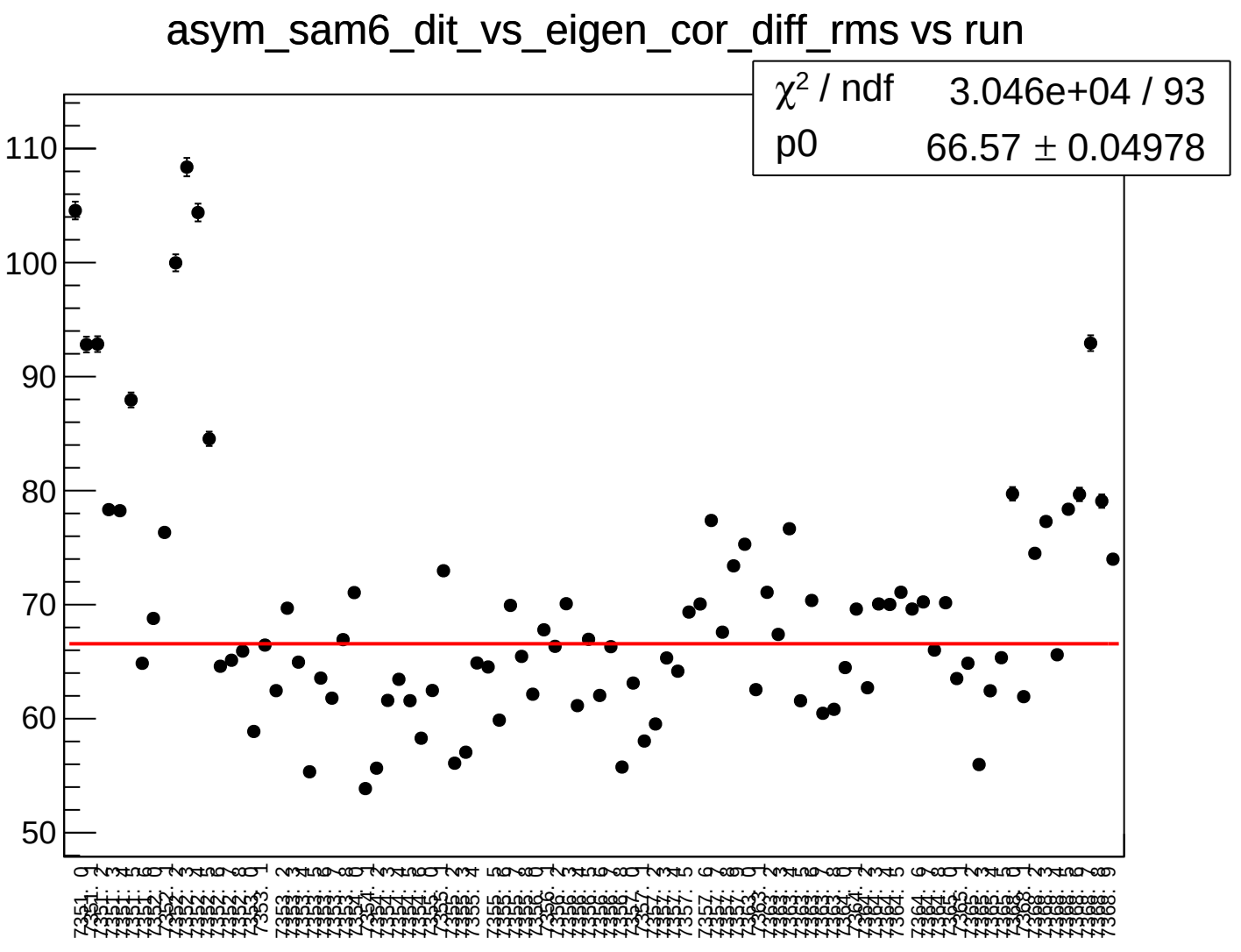

asym_sam6_reg_vs_cor_diff_rms vs run
χ^2 / ndf 1.396e+06 / 93
p0 1.484e−11 ± 2.283e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

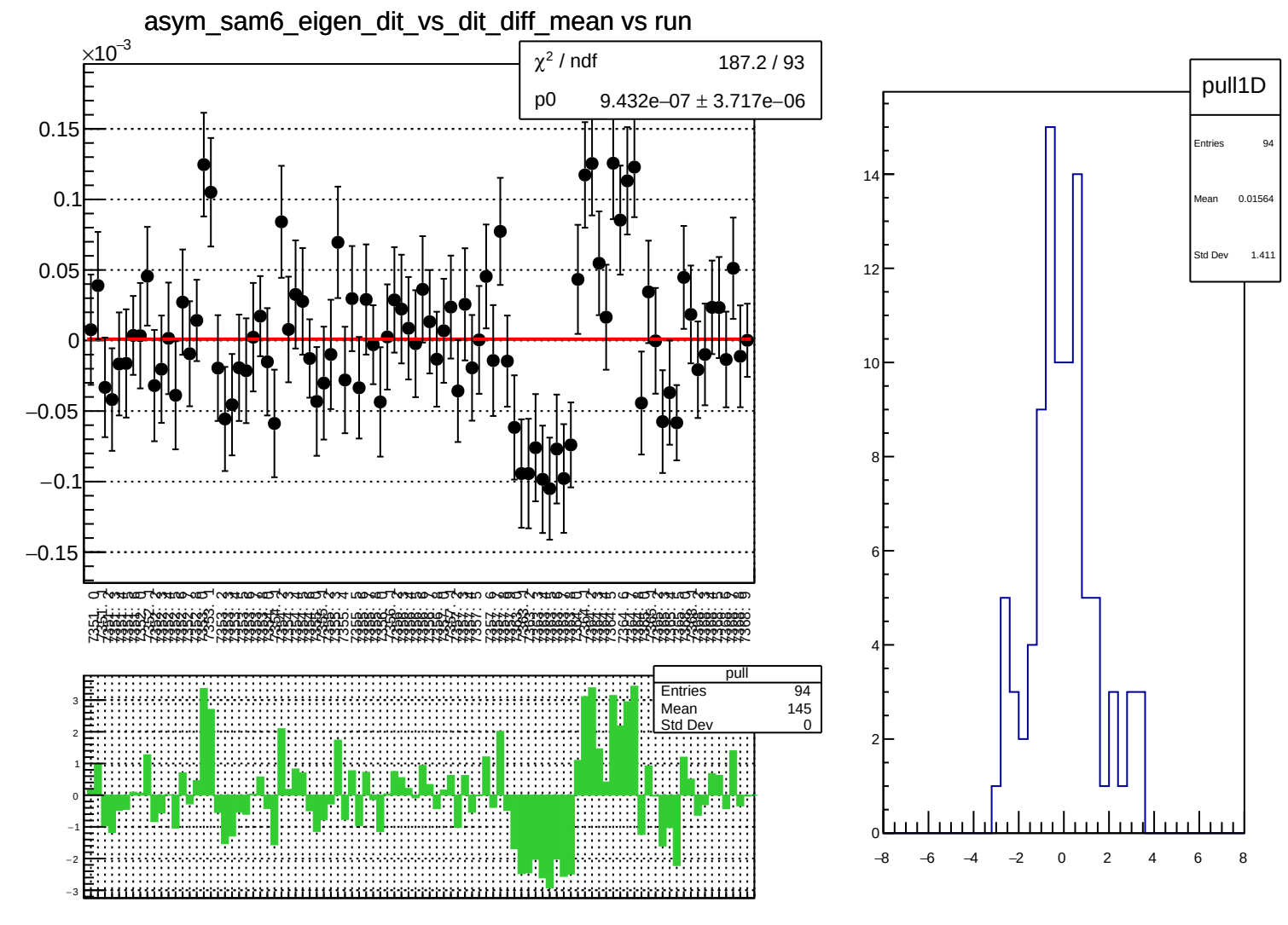

asym_sam6_dit_vs_cor_diff_mean vs run
χ² / ndf 136.5 / 93
p0 −0.09657 ± 0.0704
pull
Entries 94
Mean 2239
Std Dev 0

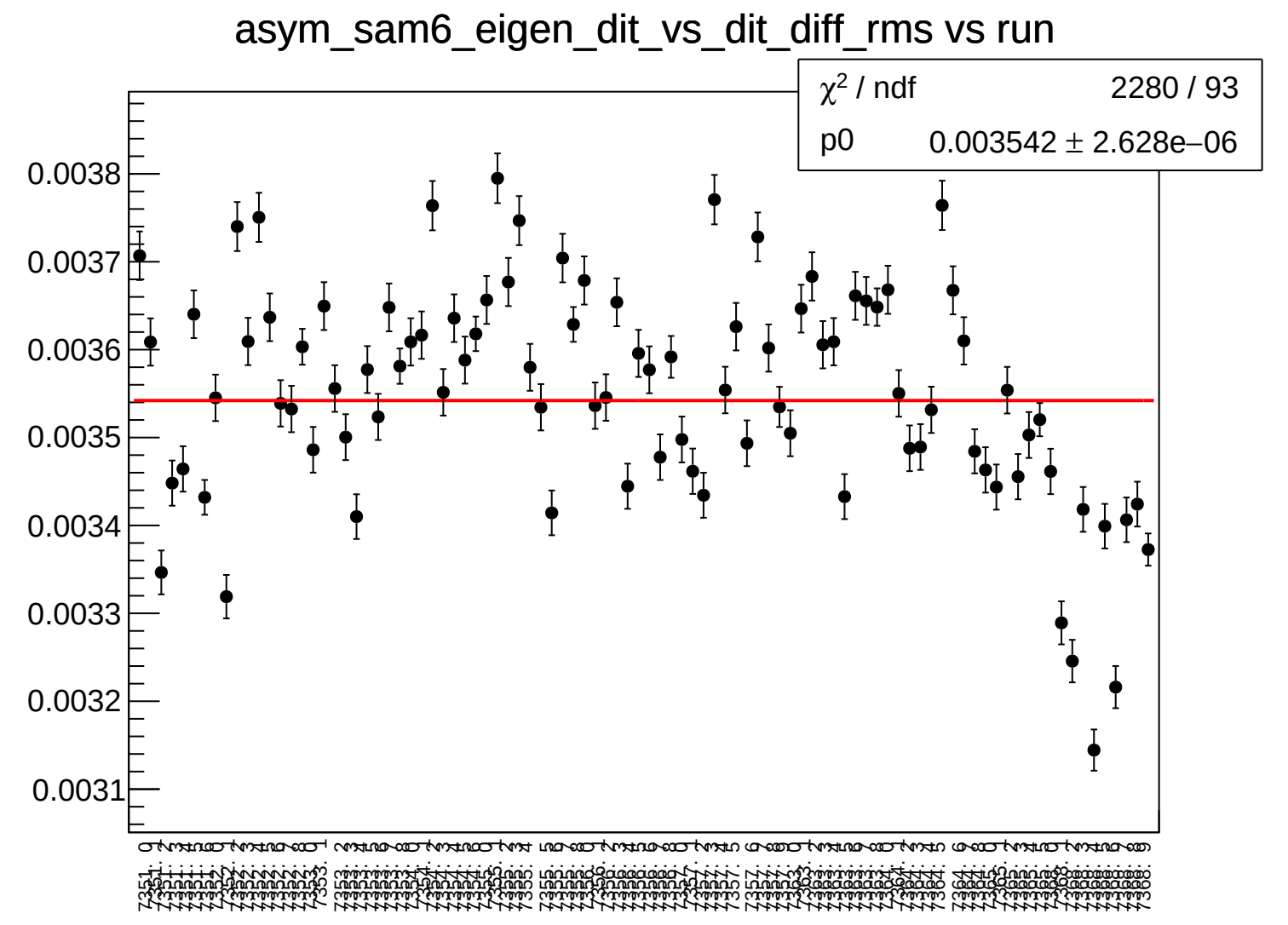

pull1D
Entries 94
Mean −0.002482
Std Dev 1.205

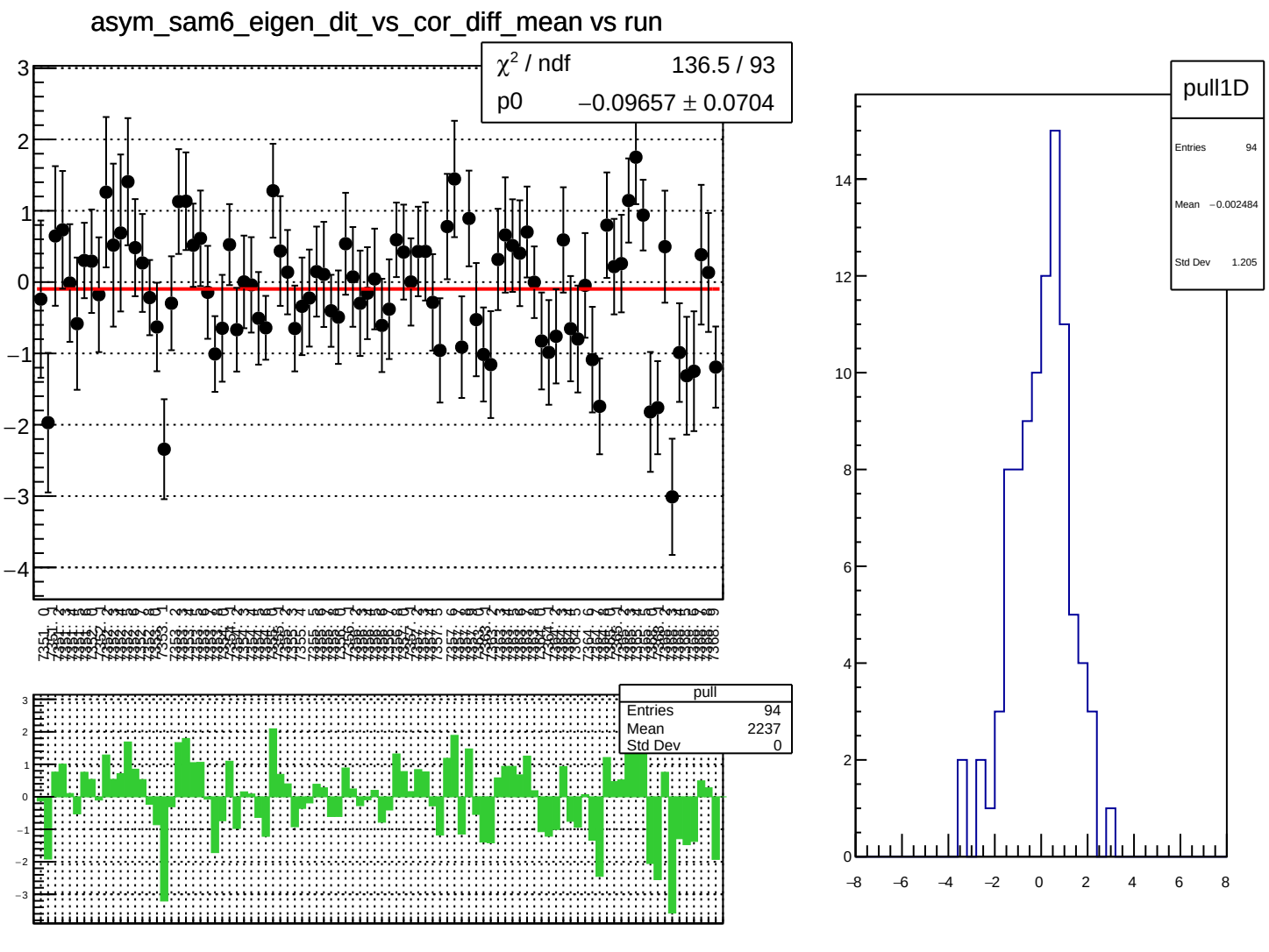

asym_sam6_dit_vs_cor_diff_rms vs run
χ² / ndf 3.046e+04 / 93
p0 66.57 ± 0.04978
110
100
90
80
70
60
50

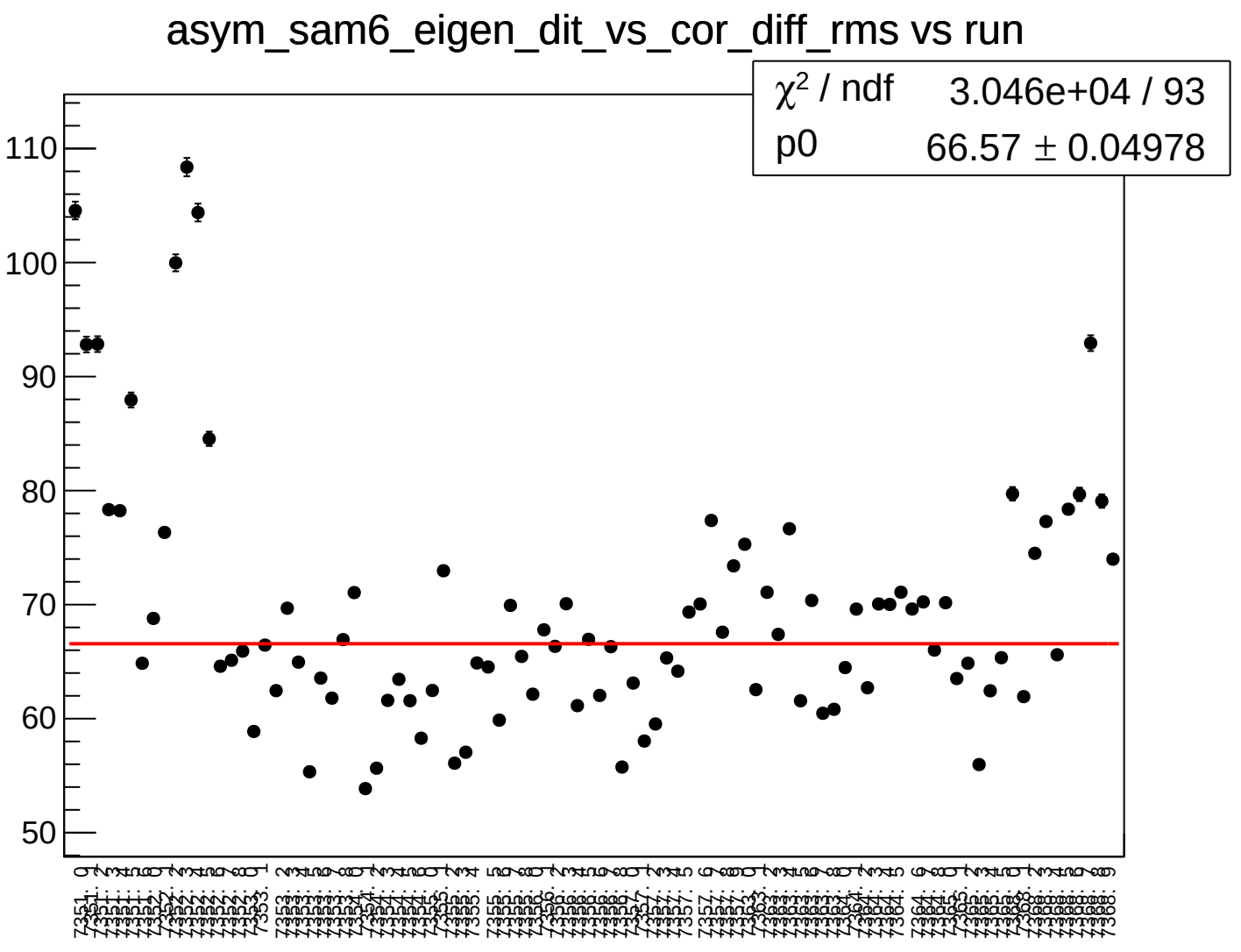

asym_sam6_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 136.5 / 93
p0 −0.09657 ± 0.0704
pull
Entries 94
Mean 2239
Std Dev 0
pull1D
Entries 94
Mean −0.002482
Std Dev 1.205

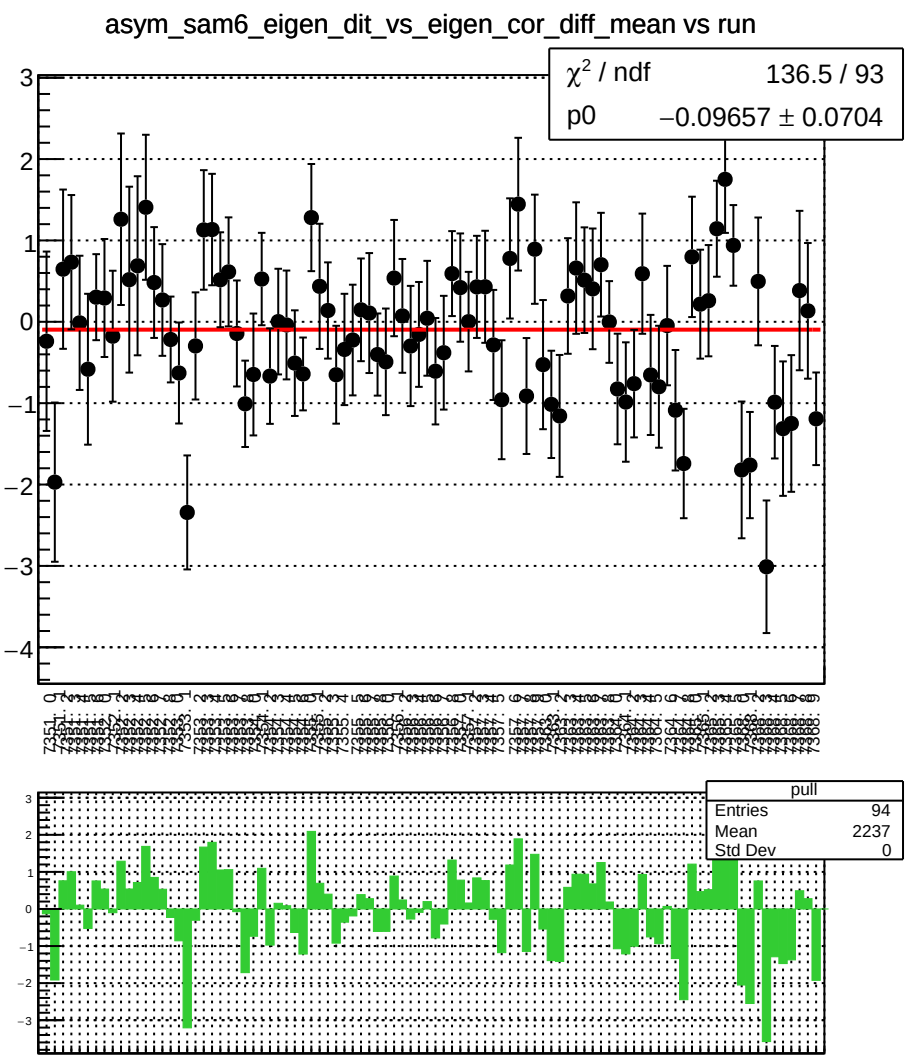

asym_sam6_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.046e+04 / 93
p0 66.57 ± 0.04978
110
100
90
80
70
60
50

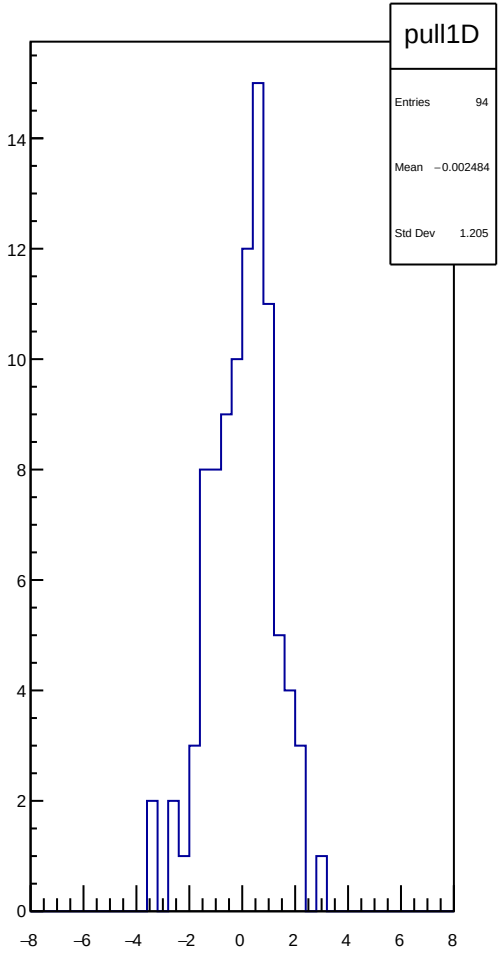

asym_sam6_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 187.2 / 93
p0 9.432e−07 ± 3.717e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 94
Mean 145
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.01564
Std Dev 1.411
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

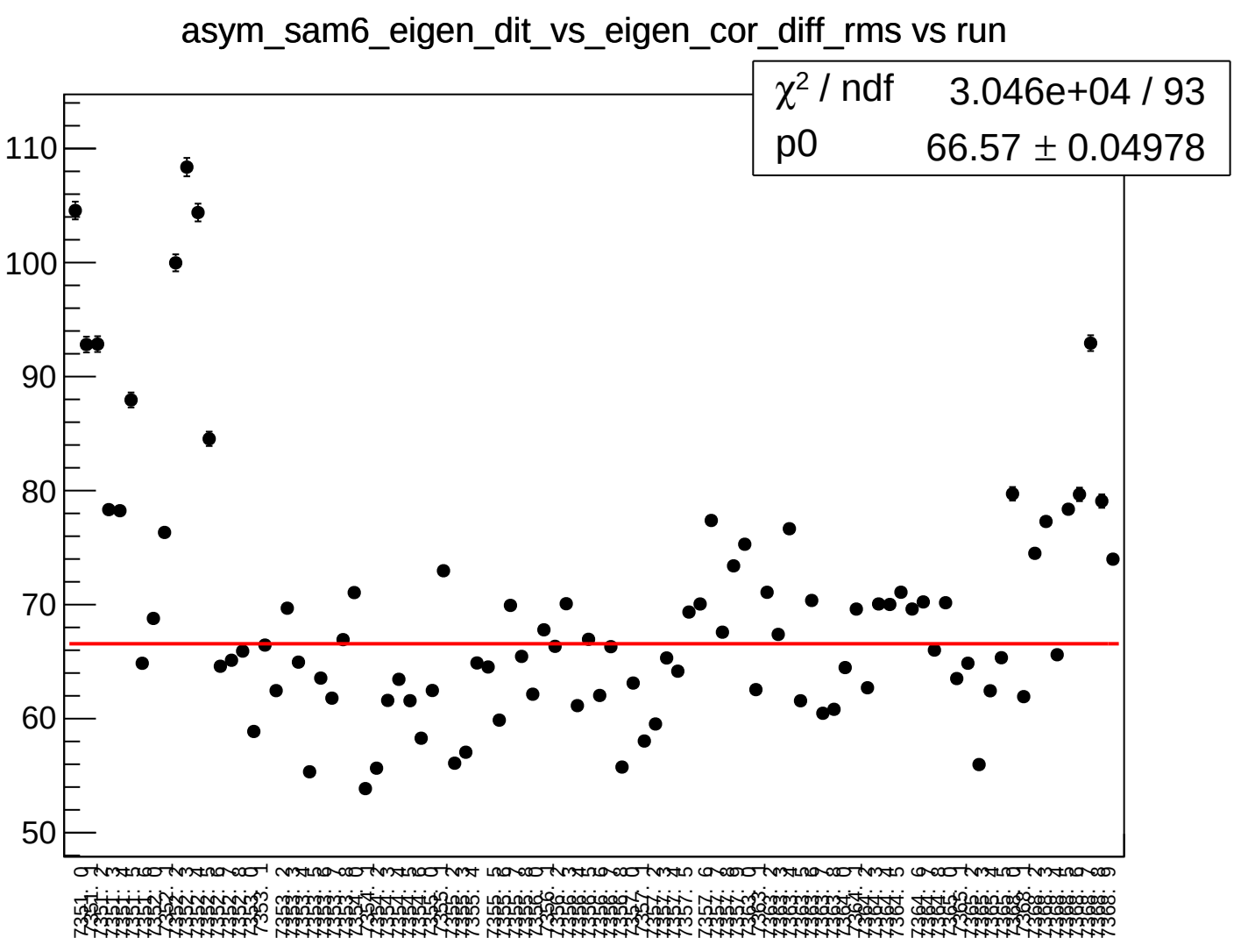

asym_sam6_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2280 / 93
p0 0.003542 ± 2.628e−06
0.0038
0.0037
0.0036
0.0035
0.0034
0.0033
0.0032
0.0031

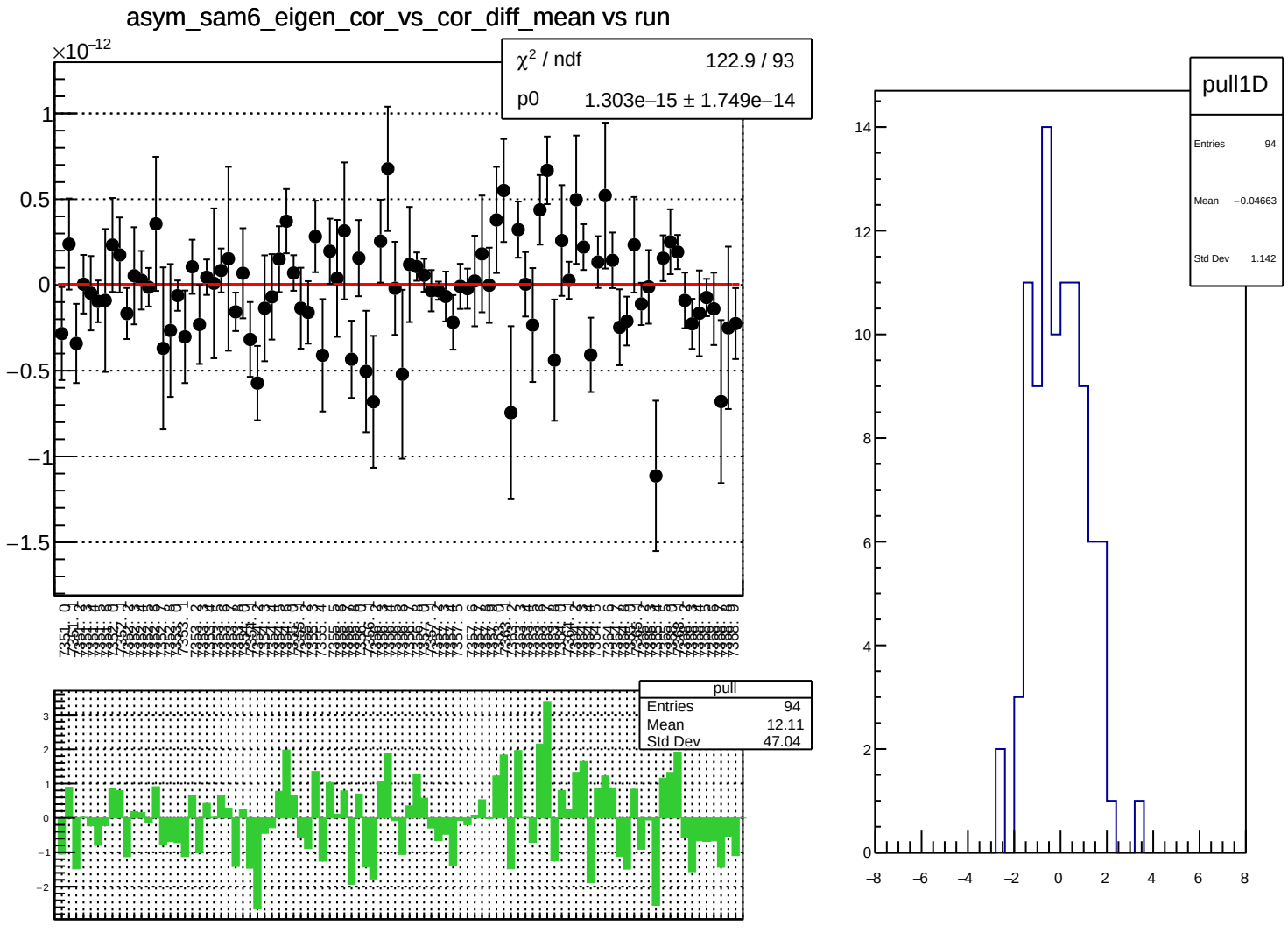

asym_sam6_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 136.5 / 93
p0 −0.09657 ± 0.0704
pull
Entries 94
Mean 2237
Std Dev 0
pull1D
Entries 94
Mean −0.002484
Std Dev 1.205

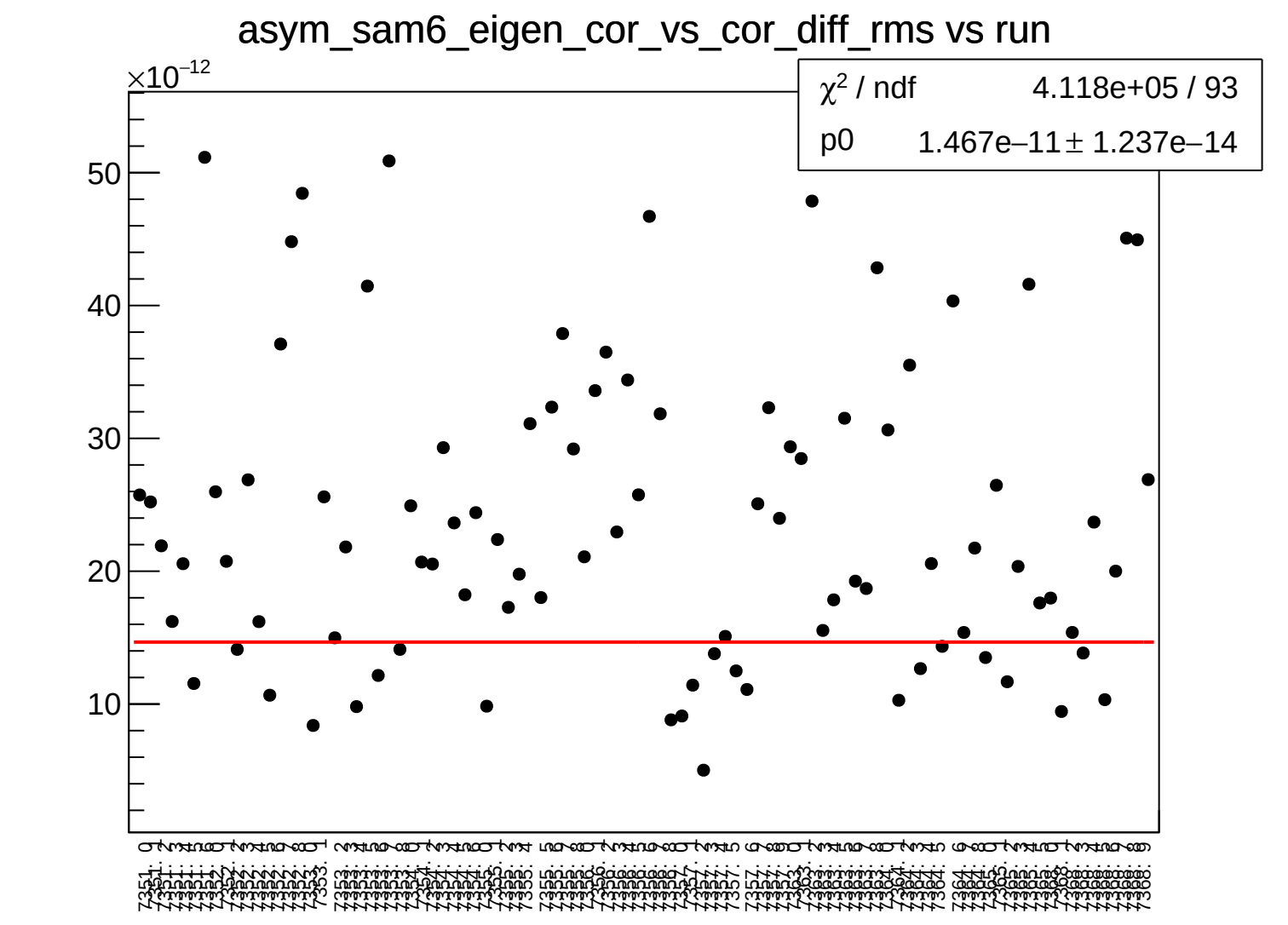

asym_sam6_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.046e+04 / 93
p0 66.57 ± 0.04978
110
100
90
80
70
60
50

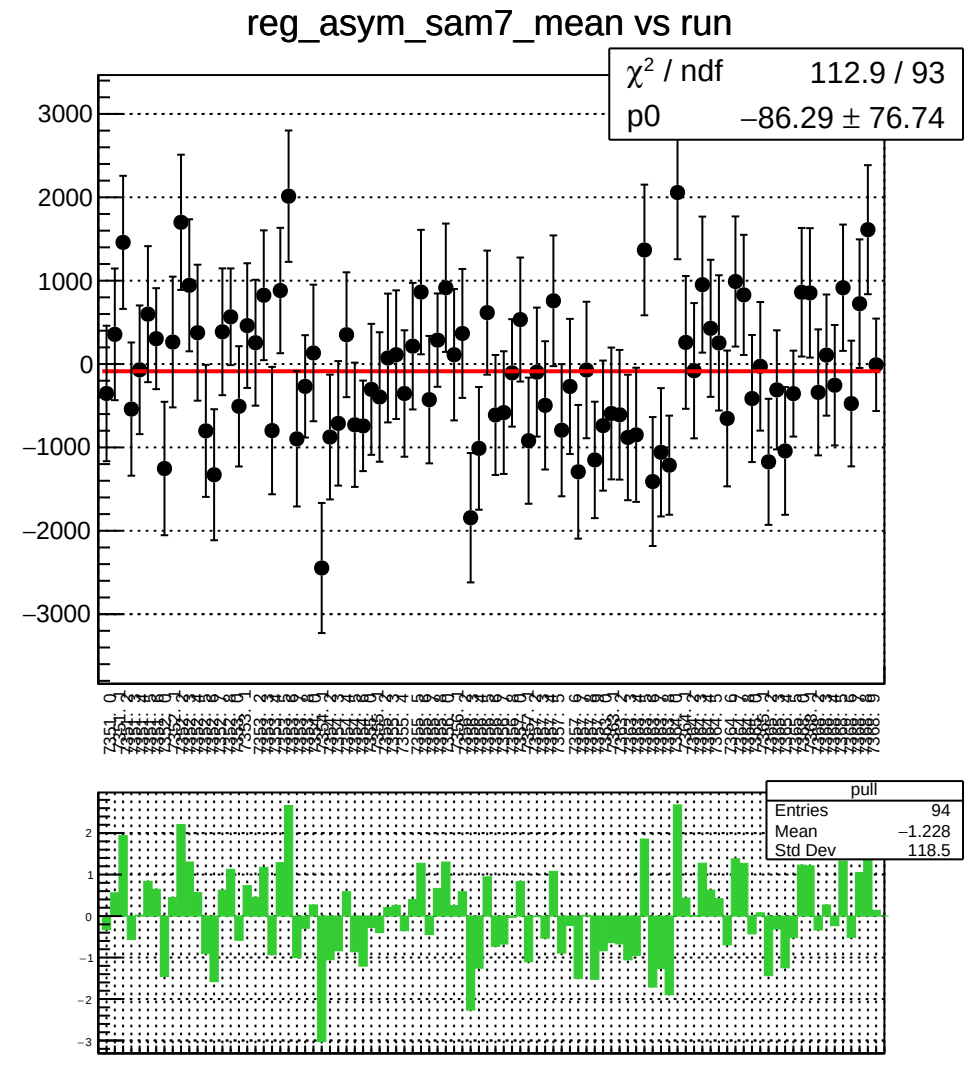

asym_sam6_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 136.5 / 93
p0 −0.09657 ± 0.0704
pull
Entries 94
Mean 2237
Std Dev 0

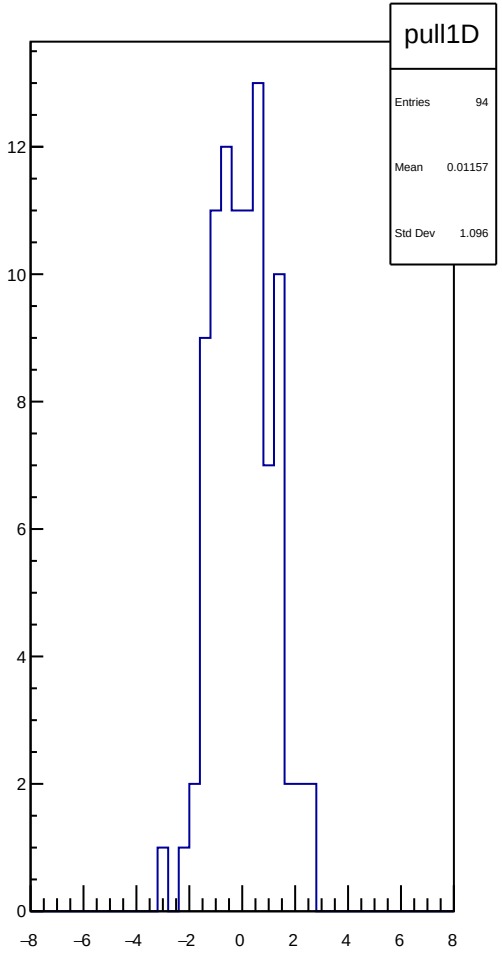

pull1D
Entries 94
Mean −0.002484
Std Dev 1.205

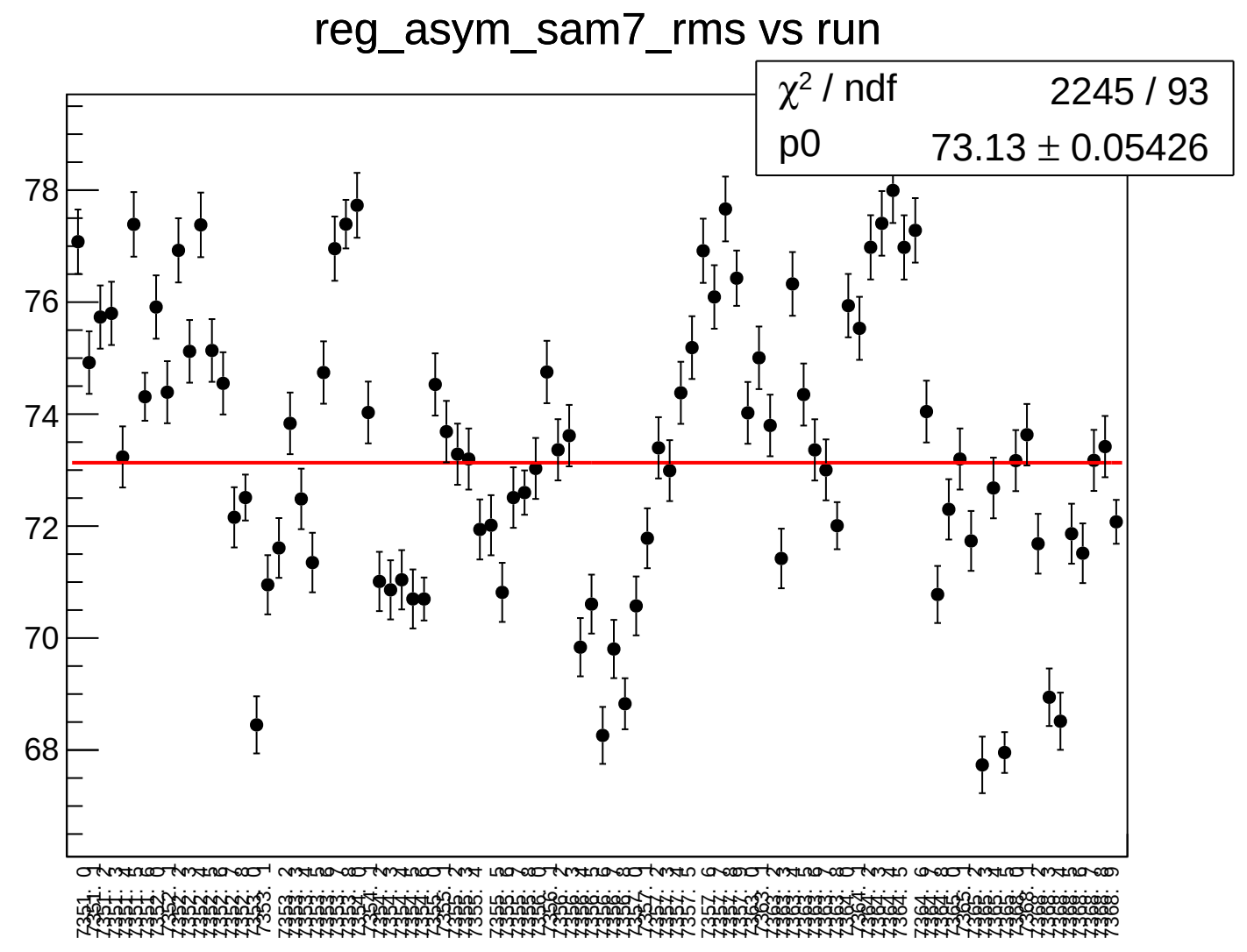

asym_sam6_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.046e+04 / 93
p0 66.57 ± 0.04978
110
100
90
80
70
60
50

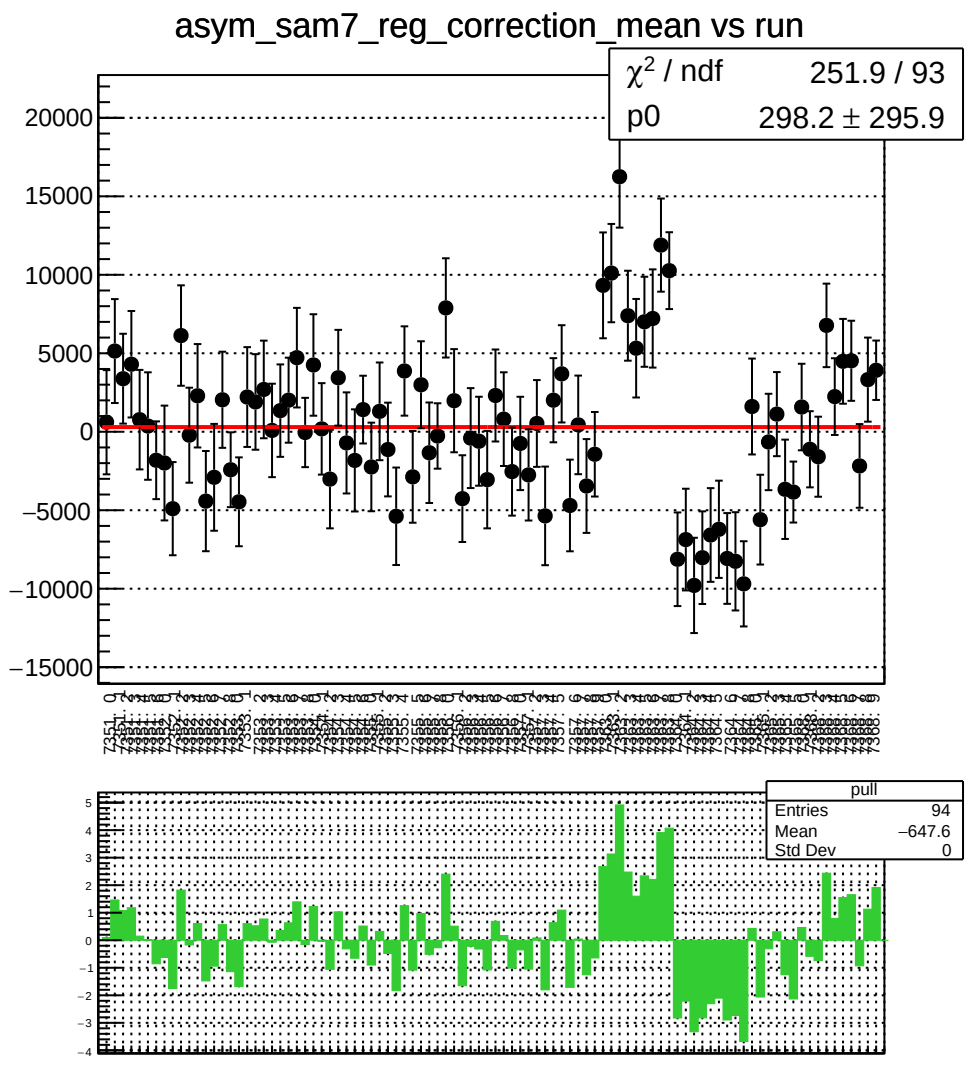

asym_sam6_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 122.9 / 93
p0 1.303e−15 ± 1.749e−14
pull
Entries 94
Mean 12.11
Std Dev 47.04
pull1D
Entries 94
Mean −0.04663
Std Dev 1.142

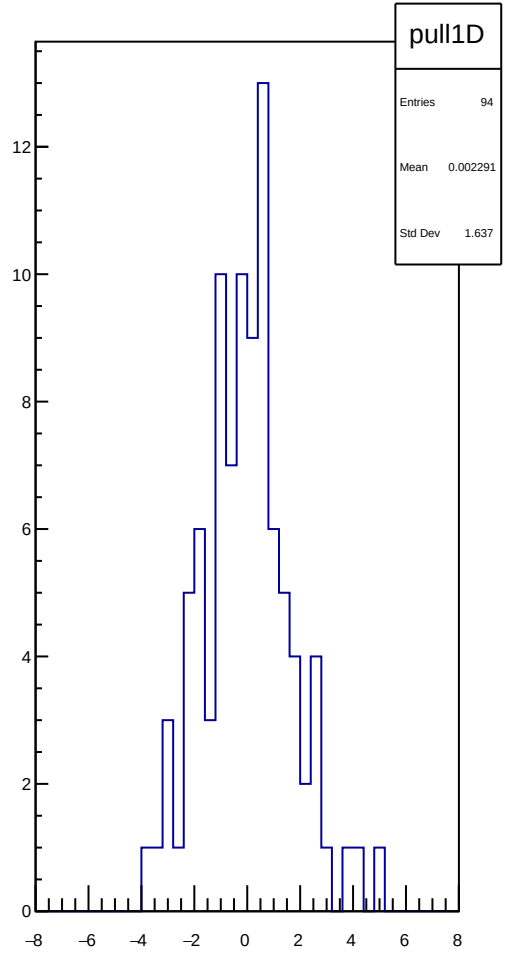

asym_sam6_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.118e+05 / 93
p0 1.467e−11 ± 1.237e−14
50
40
30
20
10

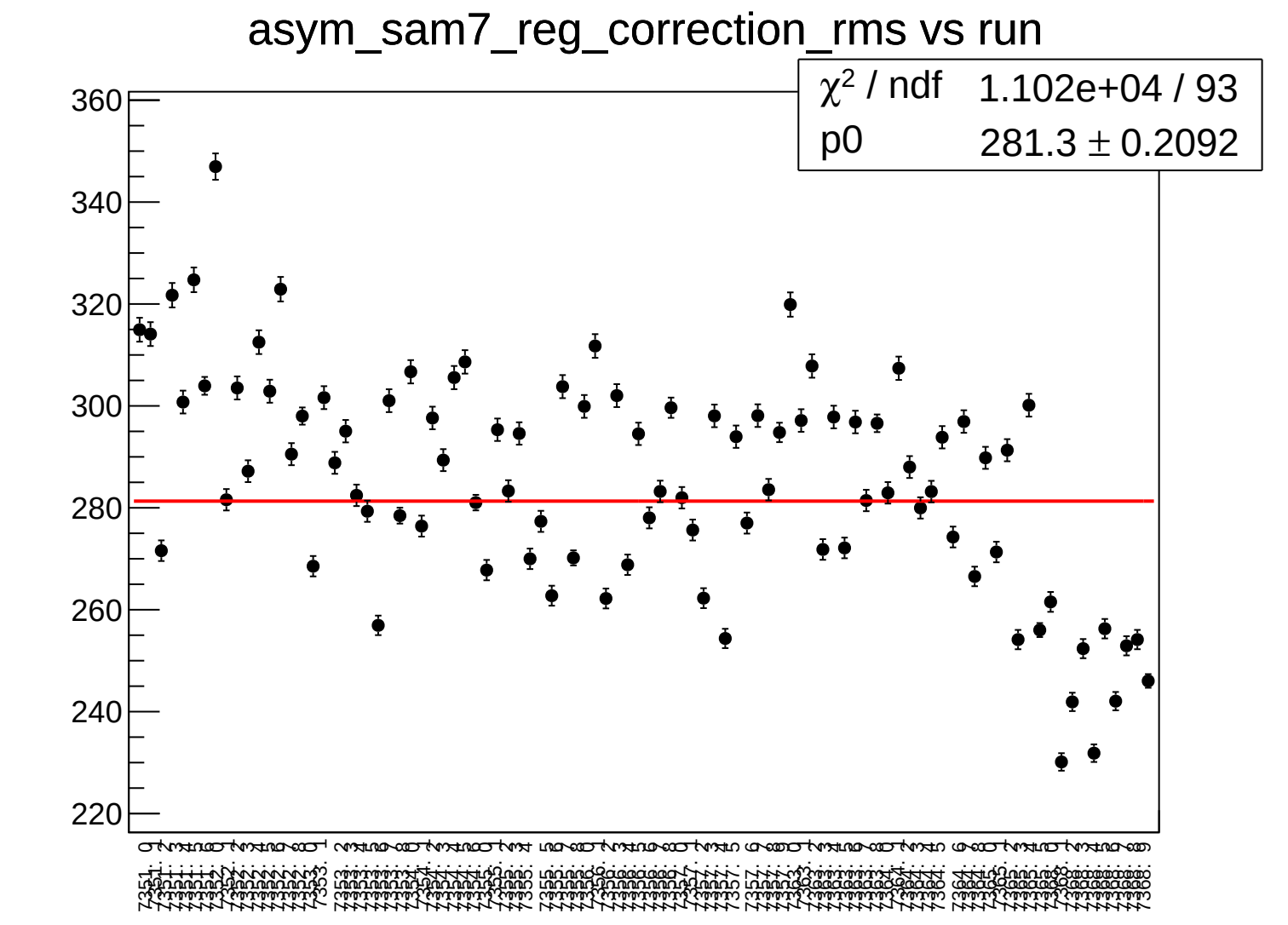

reg_asym_sam7_mean vs run
χ² / ndf 112.9 / 93
p0 −86.29 ± 76.74
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 94
Mean −1.228
Std Dev 118.5
2
1
0
−1
−2
−3

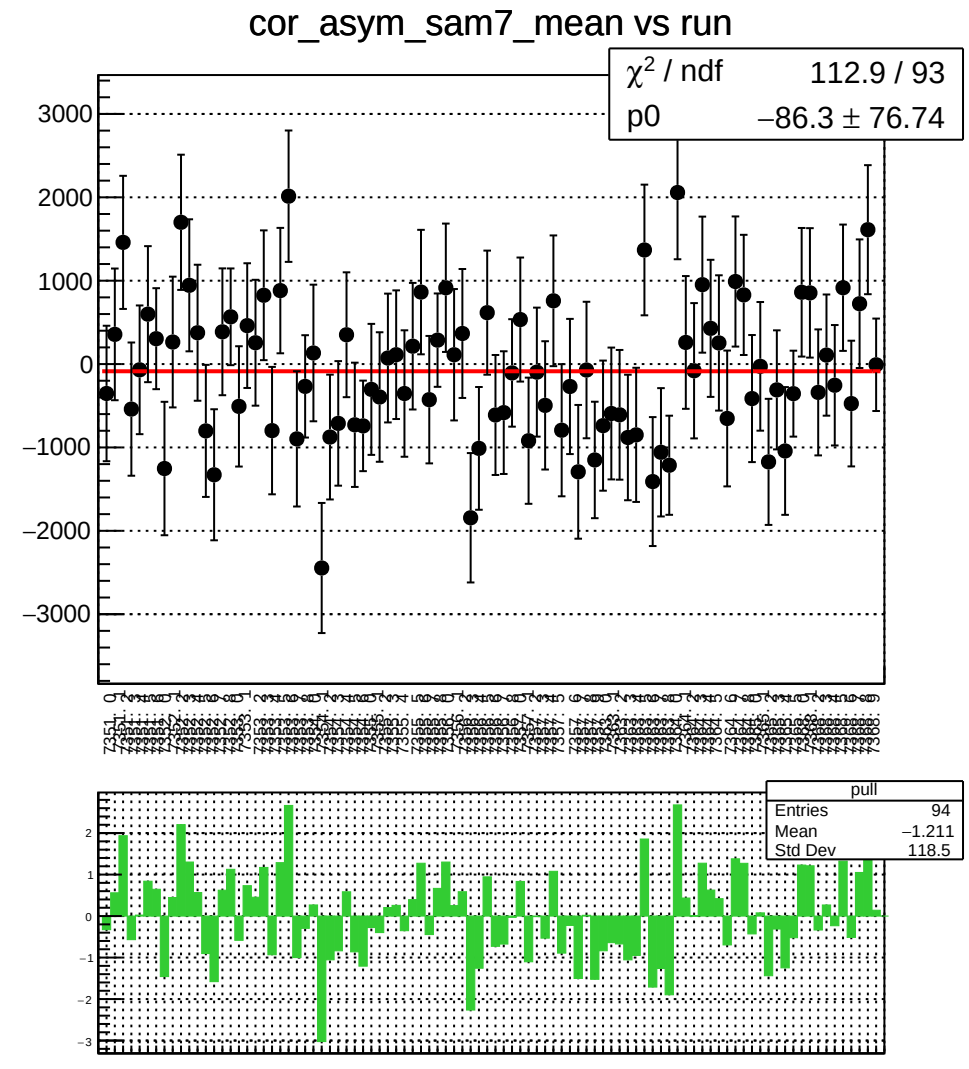

pull1D
Entries 94
Mean 0.01157
Std Dev 1.096
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

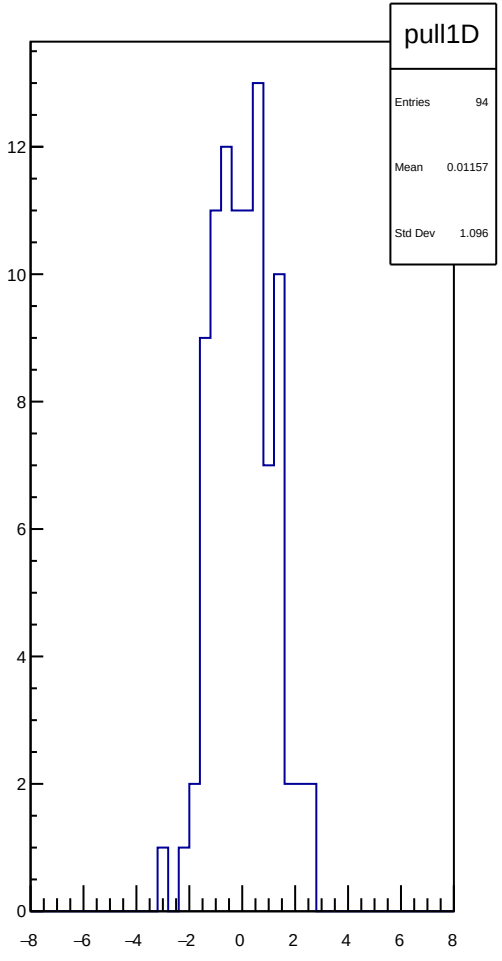

reg_asym_sam7_rms vs run
χ² / ndf 2245 / 93
p0 73.13 ± 0.05426
78
76
74
72
70
68

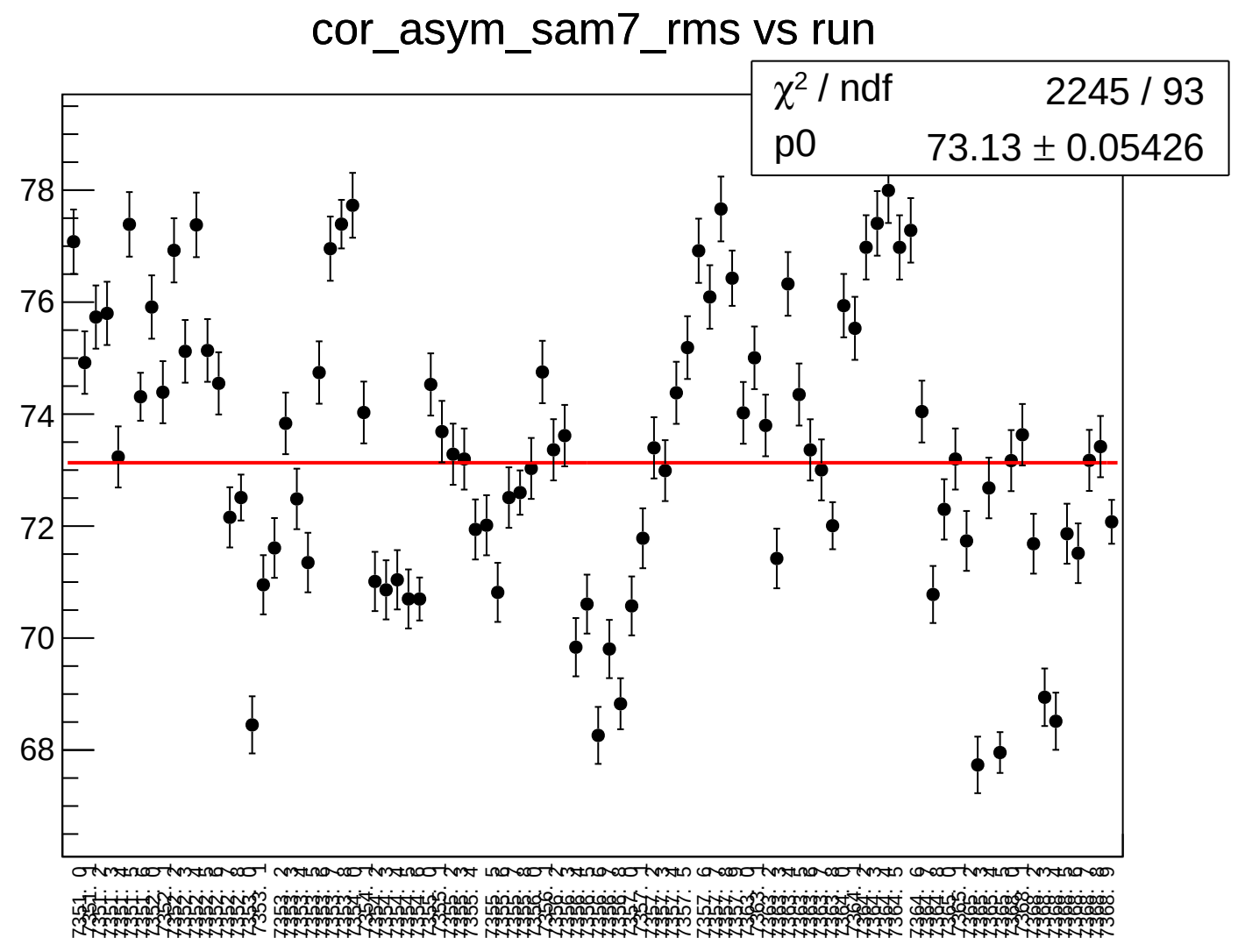

asym_sam7_reg_correction_mean vs run
χ² / ndf 251.9 / 93
p0 298.2 ± 295.9
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean −647.6
Std Dev 0
5
4
3
2
1
0
−1
−2
−3
−4

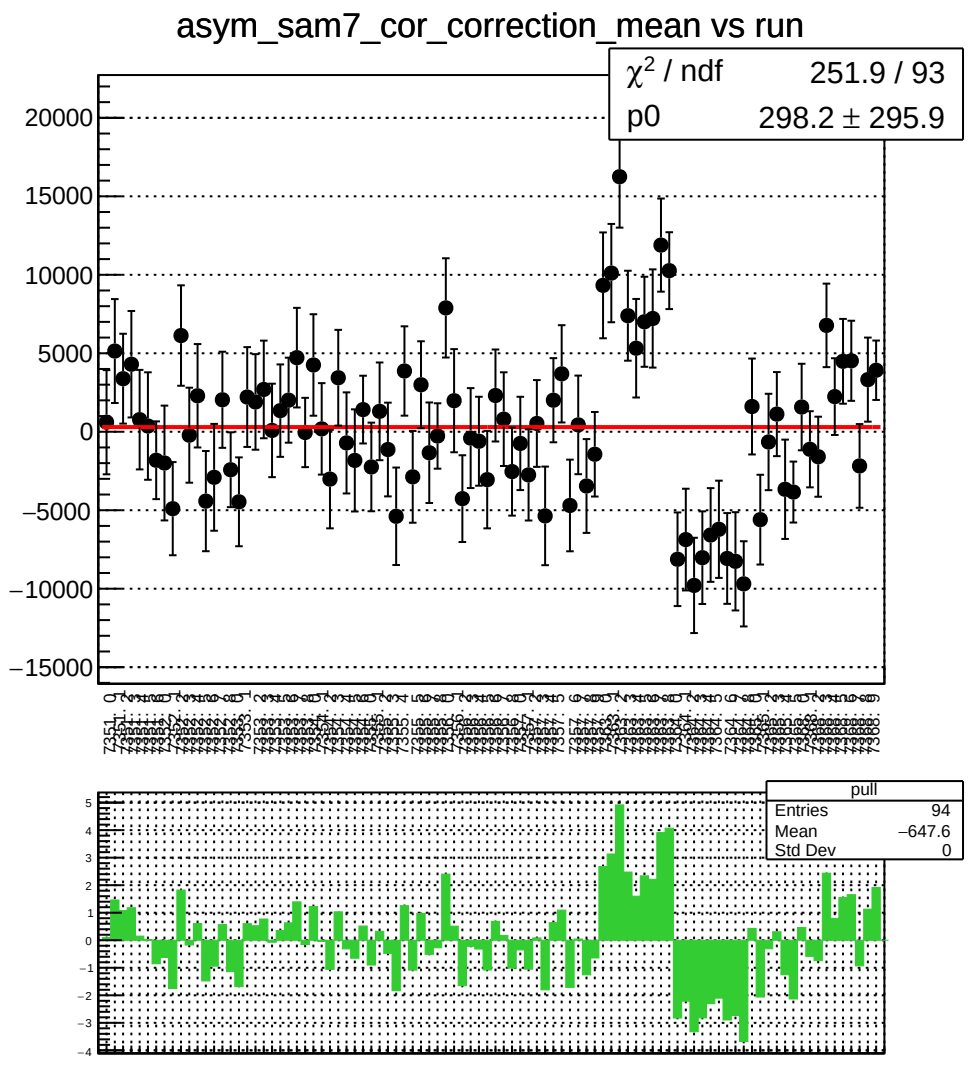

pull1D
Entries 94
Mean 0.002291
Std Dev 1.637
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

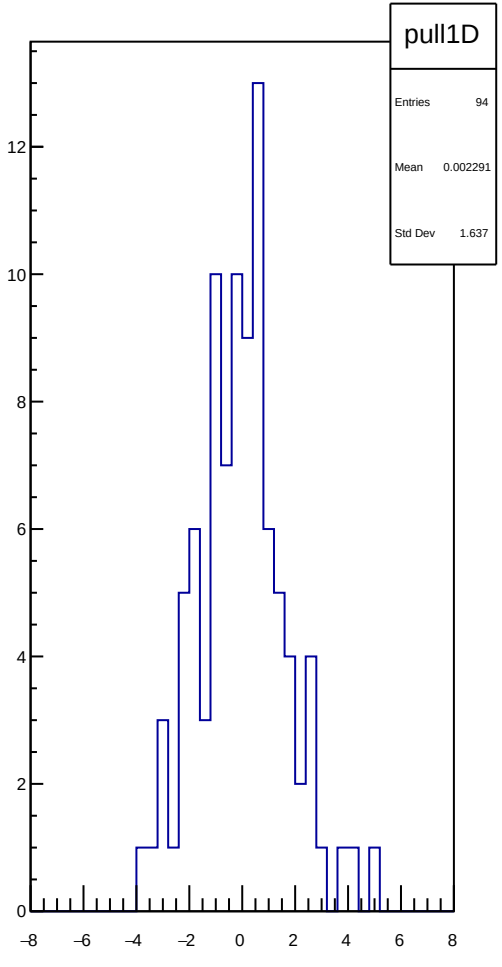

asym_sam7_reg_correction_rms vs run
χ² / ndf 1.102e+04 / 93
p0 281.3 ± 0.2092
360
340
320
300
280
260
240
220

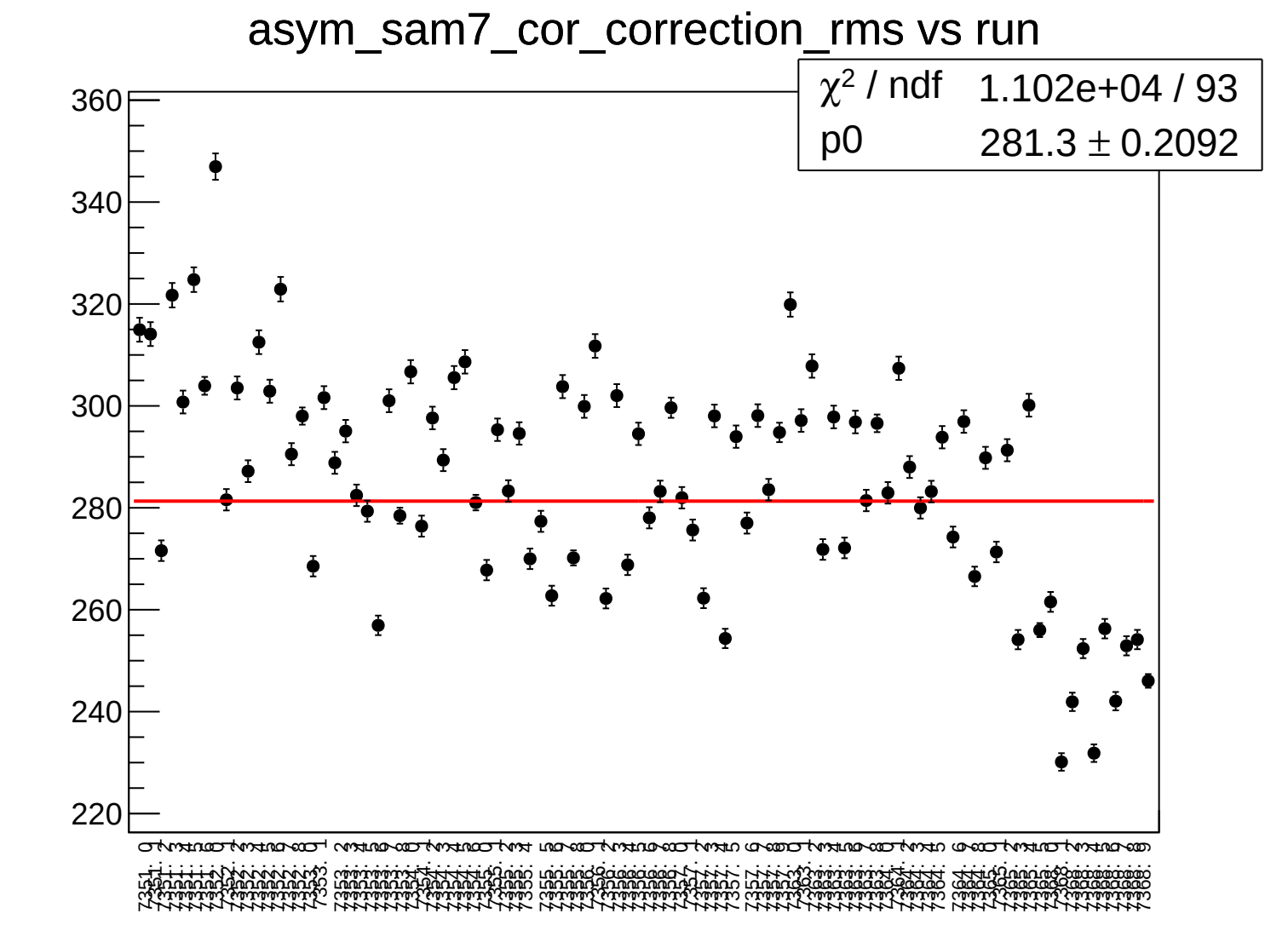

cor_asym_sam7_mean vs run
χ² / ndf 112.9 / 93
p0 −86.3 ± 76.74
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 94
Mean −1.211
Std Dev 118.5
2
1
0
−1
−2
−3

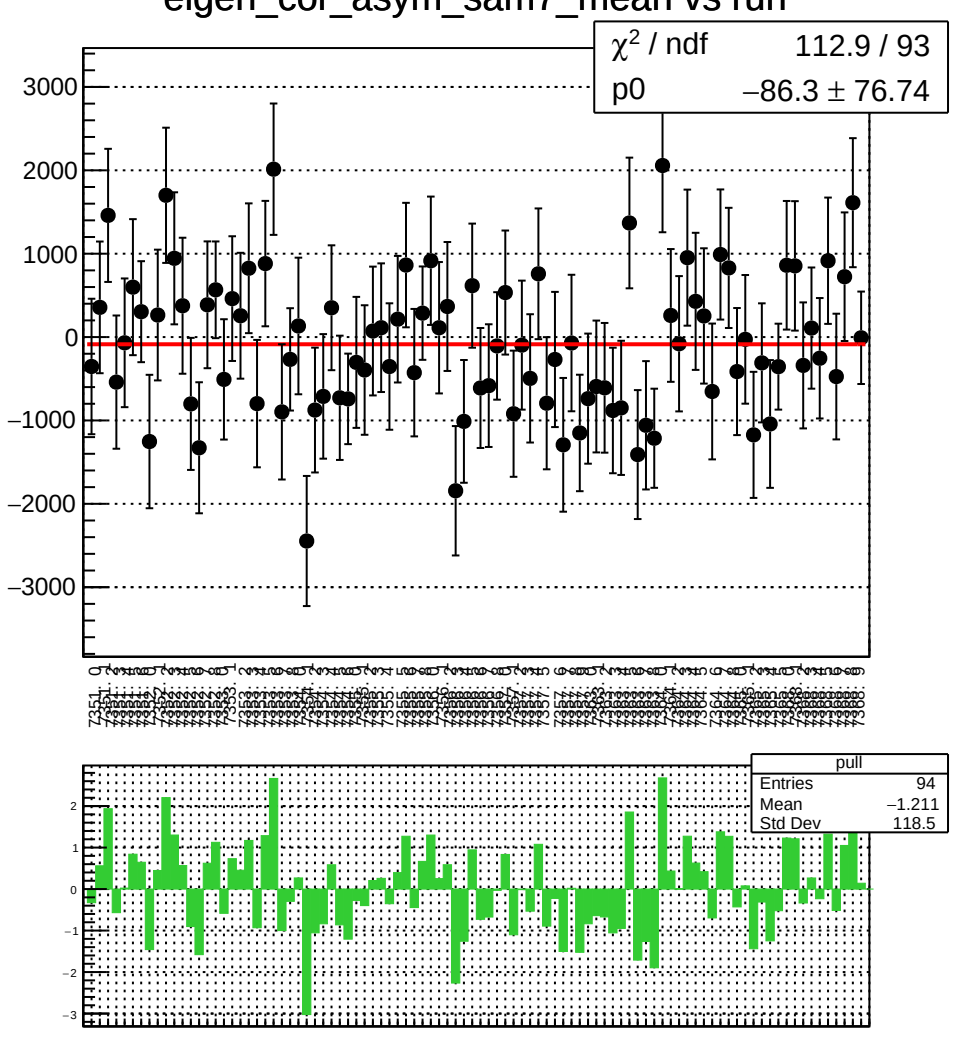

pull1D
Entries 94
Mean 0.01157
Std Dev 1.096
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

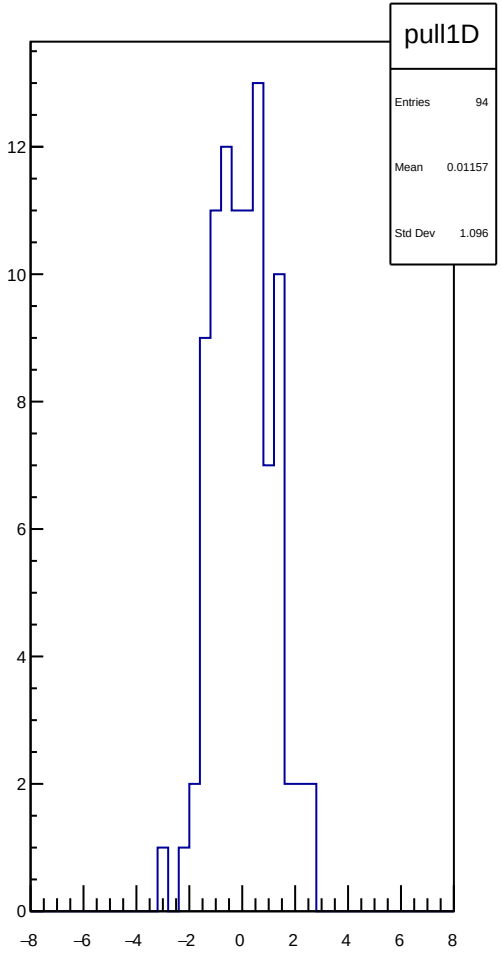

cor_asym_sam7_rms vs run
χ² / ndf 2245 / 93
p0 73.13 ± 0.05426
78
76
74
72
70
68

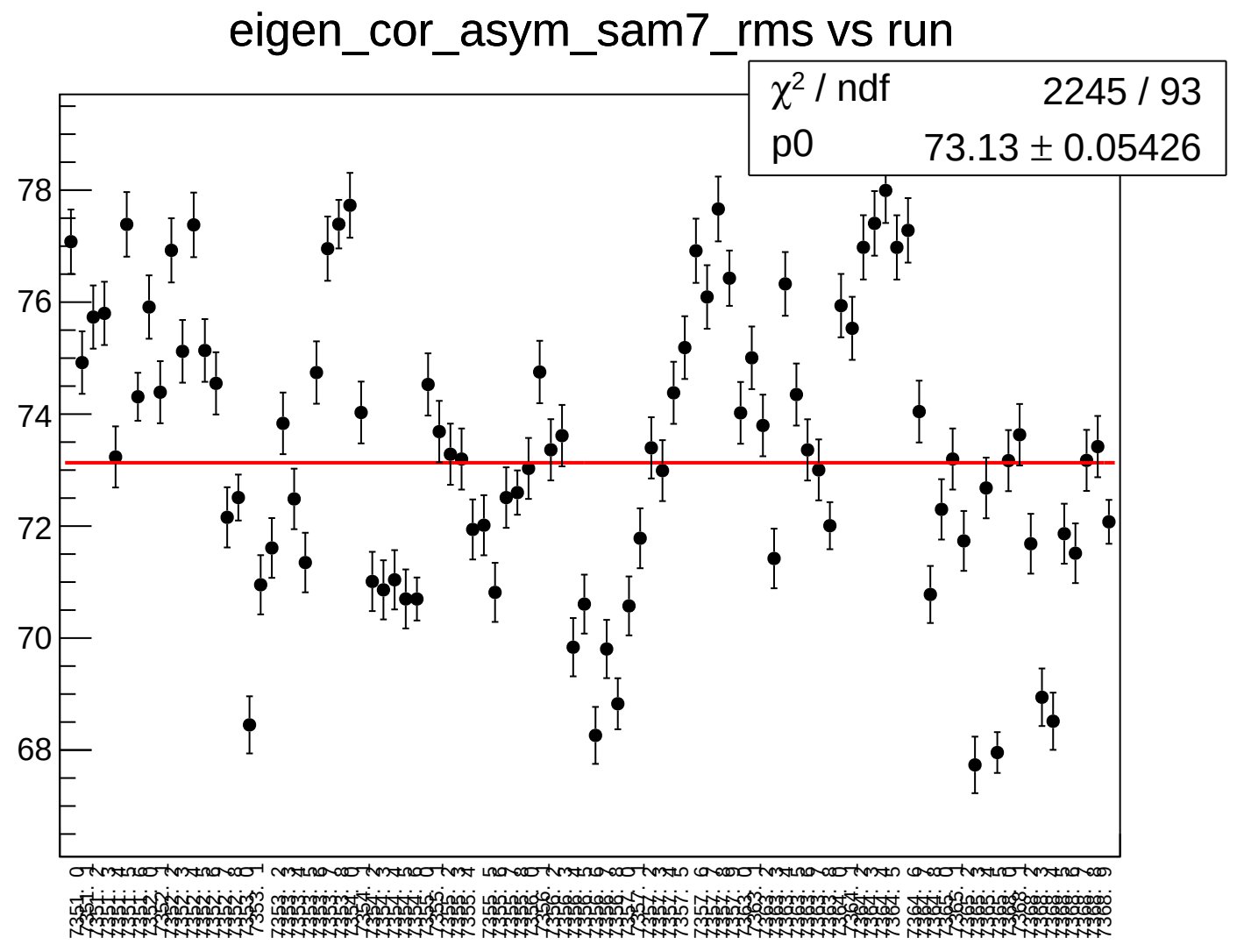

asym_sam7_cor_correction_mean vs run
χ² / ndf 251.9 / 93
p0 298.2 ± 295.9
pull
Entries 94
Mean −647.6
Std Dev 0

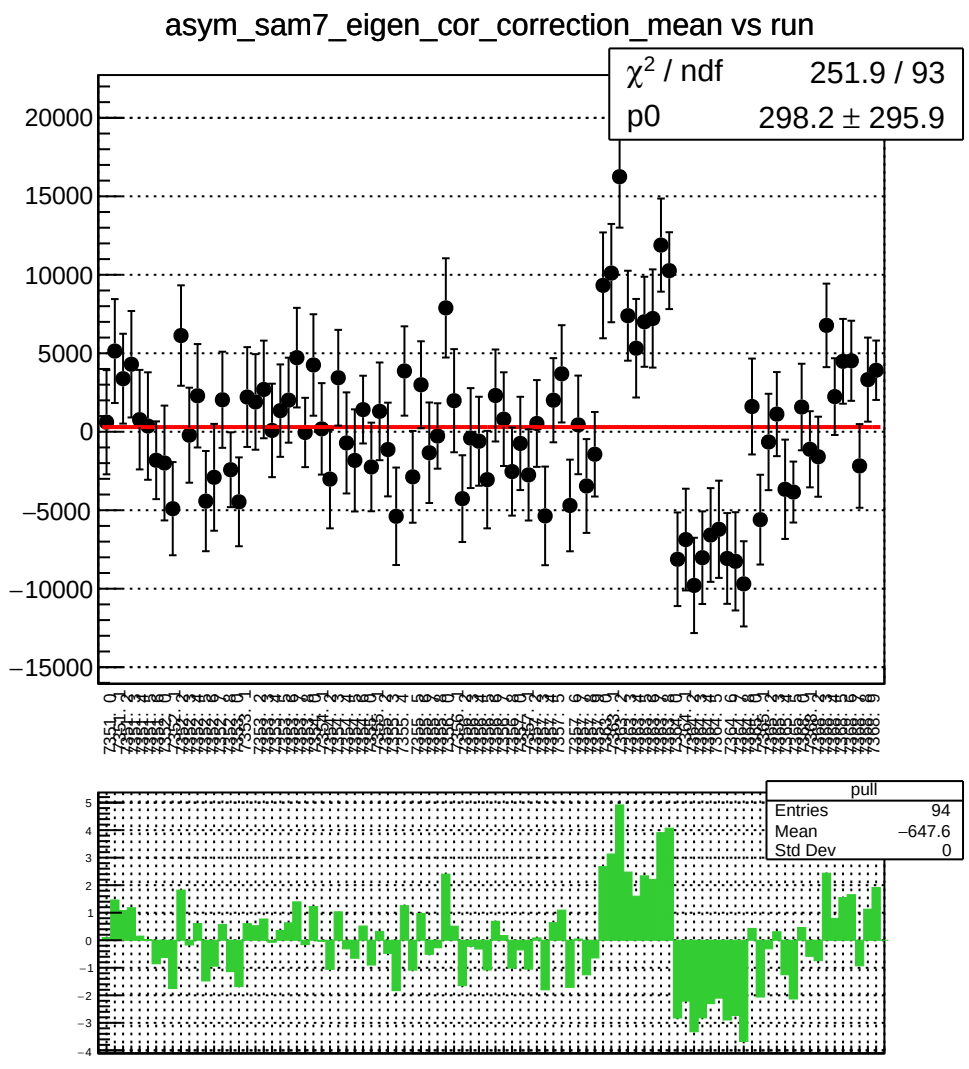

pull1D
Entries 94
Mean 0.002291
Std Dev 1.637

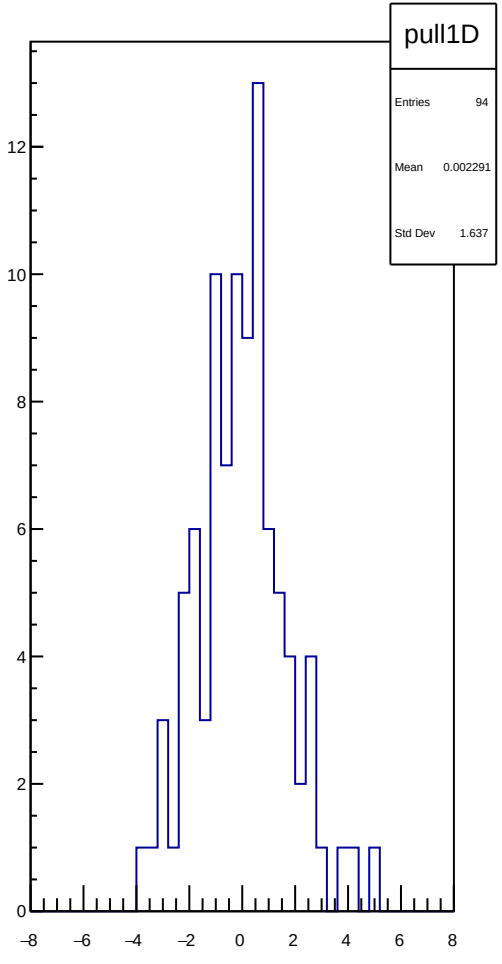

asym_sam7_cor_correction_rms vs run
χ² / ndf 1.102e+04 / 93
p0 281.3 ± 0.2092
360
340
320
300
280
260
240
220

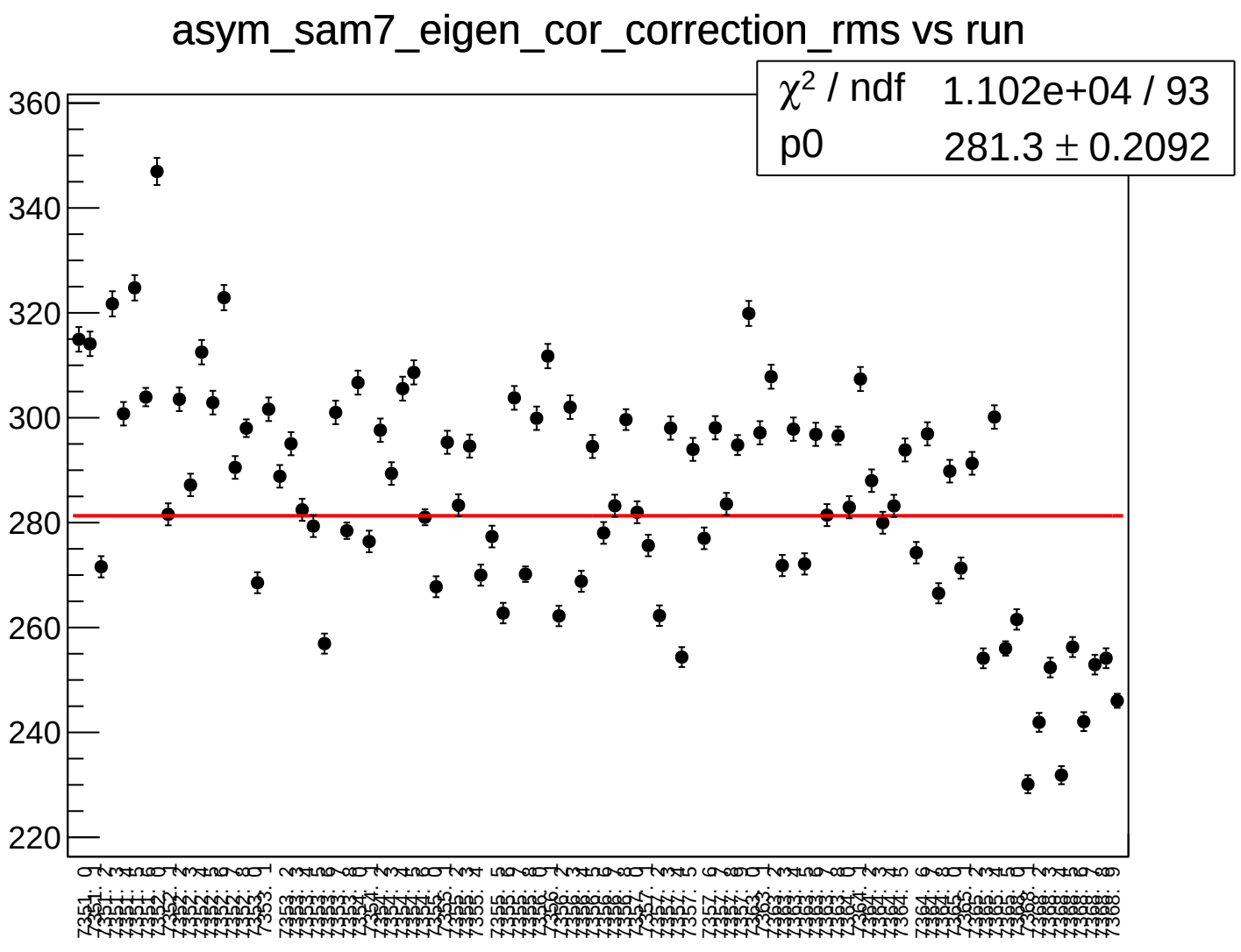

eigen_cor_asym_sam7_mean vs run
χ² / ndf 112.9 / 93
p0 −86.3 ± 76.74
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 94
Mean −1.211
Std Dev 118.5
2
1
0
−1
−2
−3

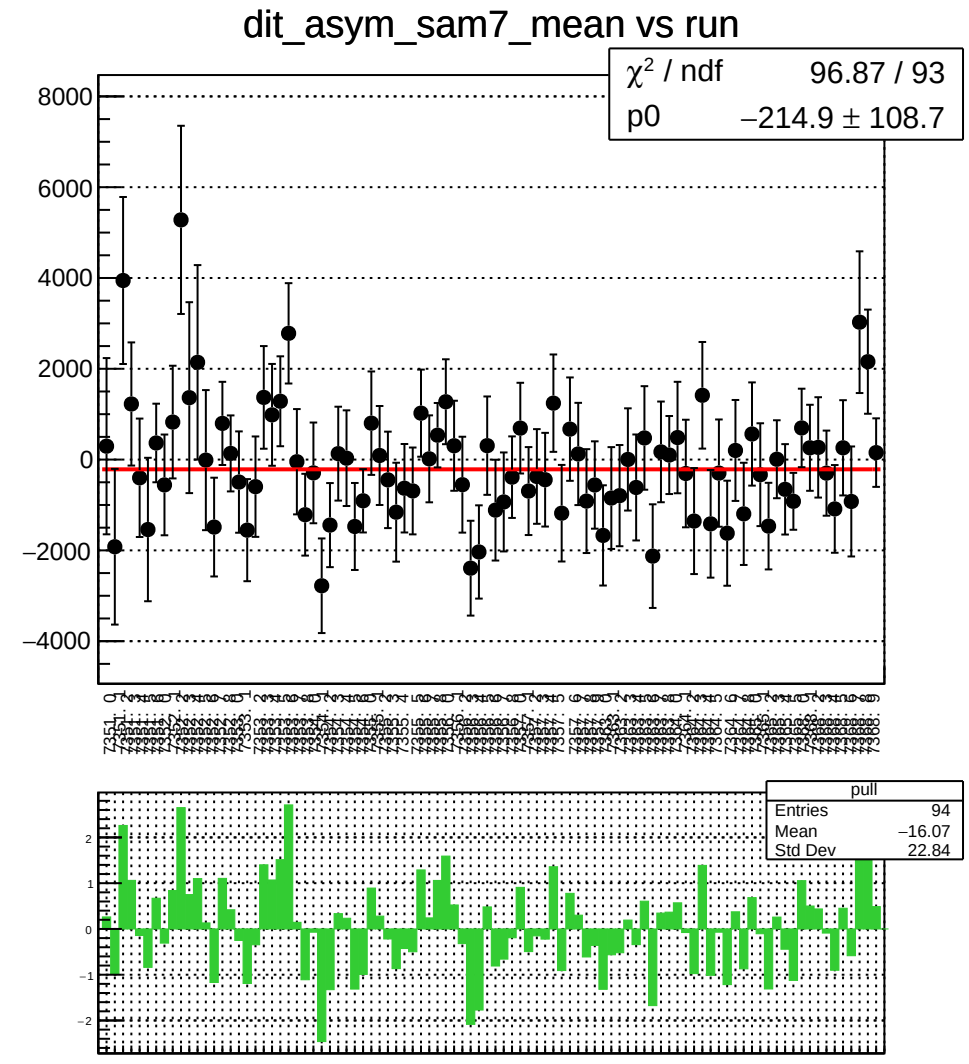

pull1D
Entries 94
Mean 0.01157
Std Dev 1.096
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

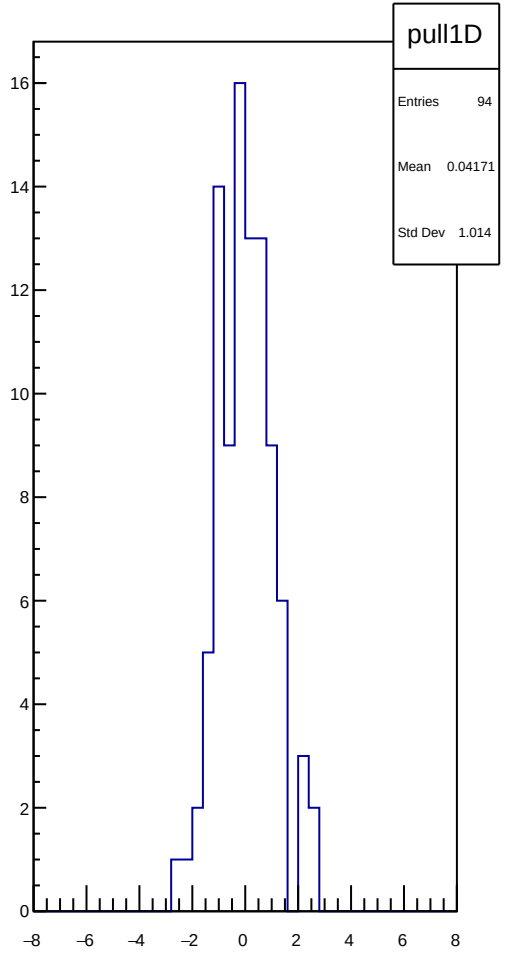

eigen_cor_asym_sam7_rms vs run
χ² / ndf 2245 / 93
p0 73.13 ± 0.05426
78
76
74
72
70
68

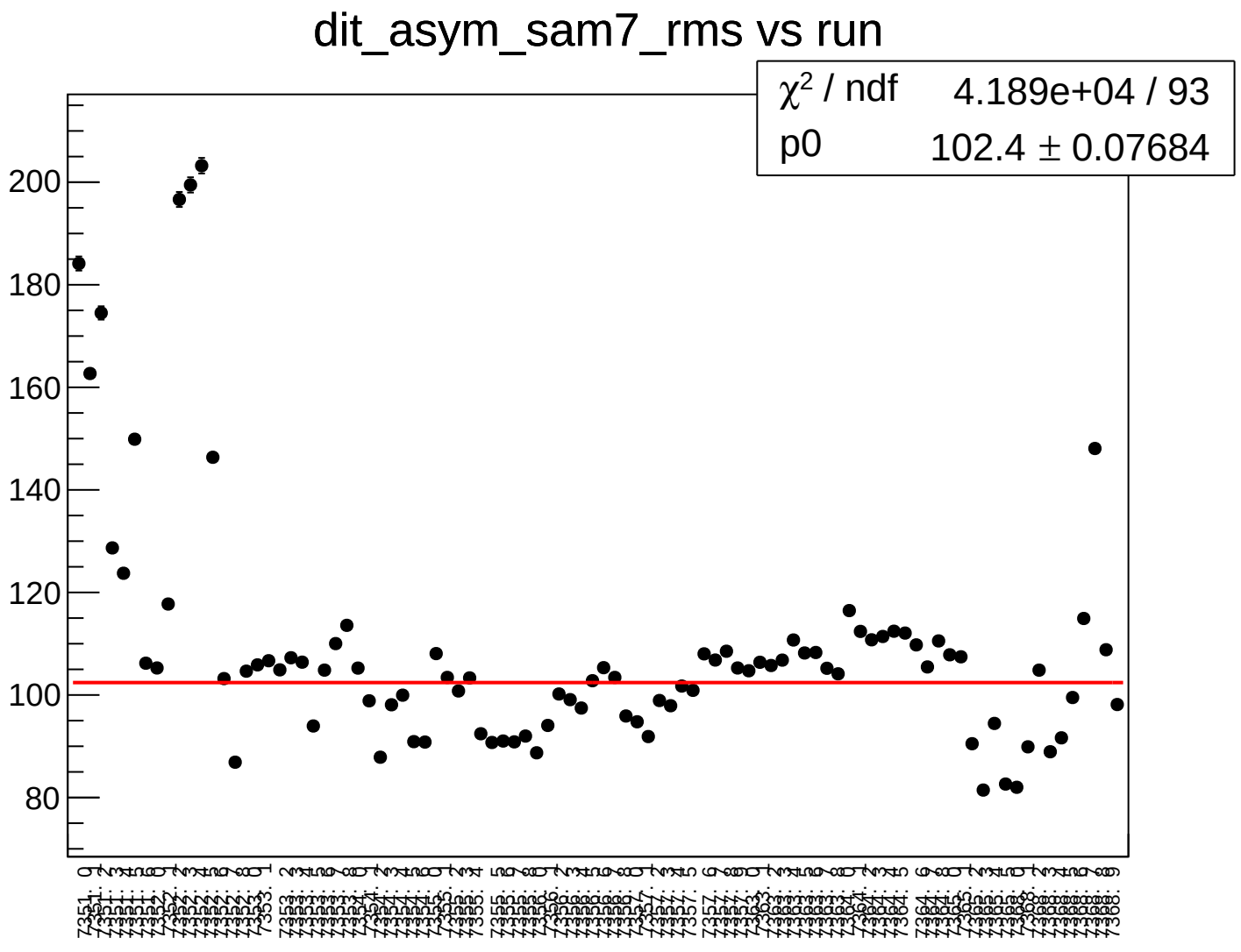

asym_sam7_eigen_cor_correction_mean vs run
χ² / ndf 251.9 / 93
p0 298.2 ± 295.9
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean −647.6
Std Dev 0
5
4
3
2
1
0
−1
−2
−3
−4

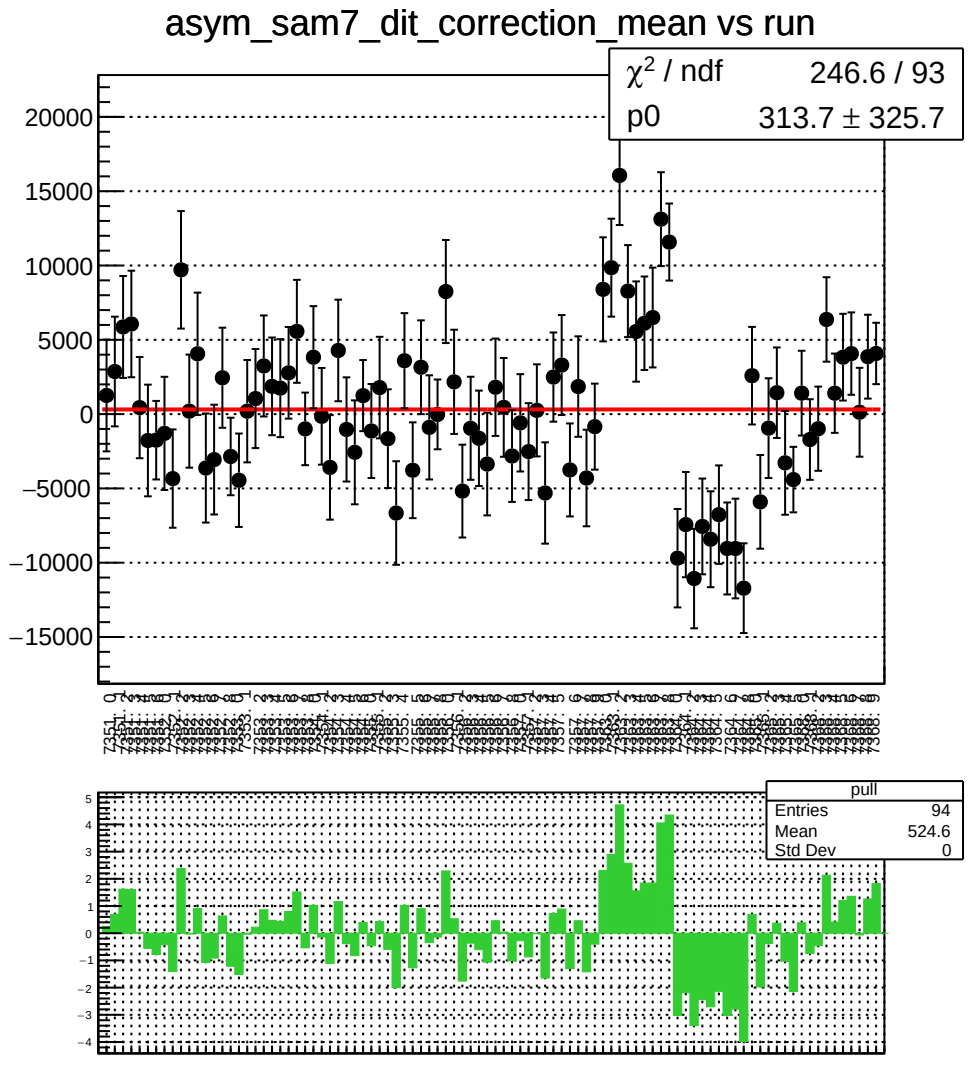

pull1D
Entries 94
Mean 0.002291
Std Dev 1.637
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

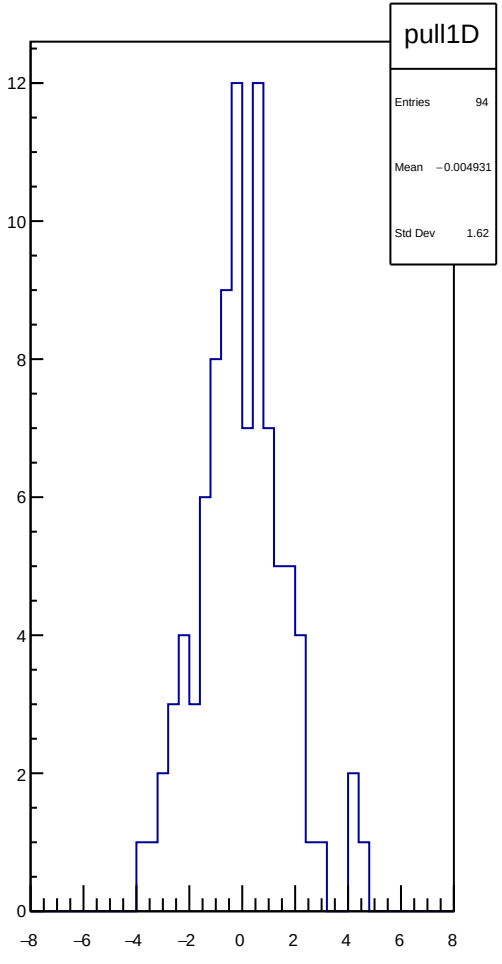

asym_sam7_eigen_cor_correction_rms vs run
χ² / ndf 1.102e+04 / 93
p0 281.3 ± 0.2092
360
340
320
300
280
260
240
220

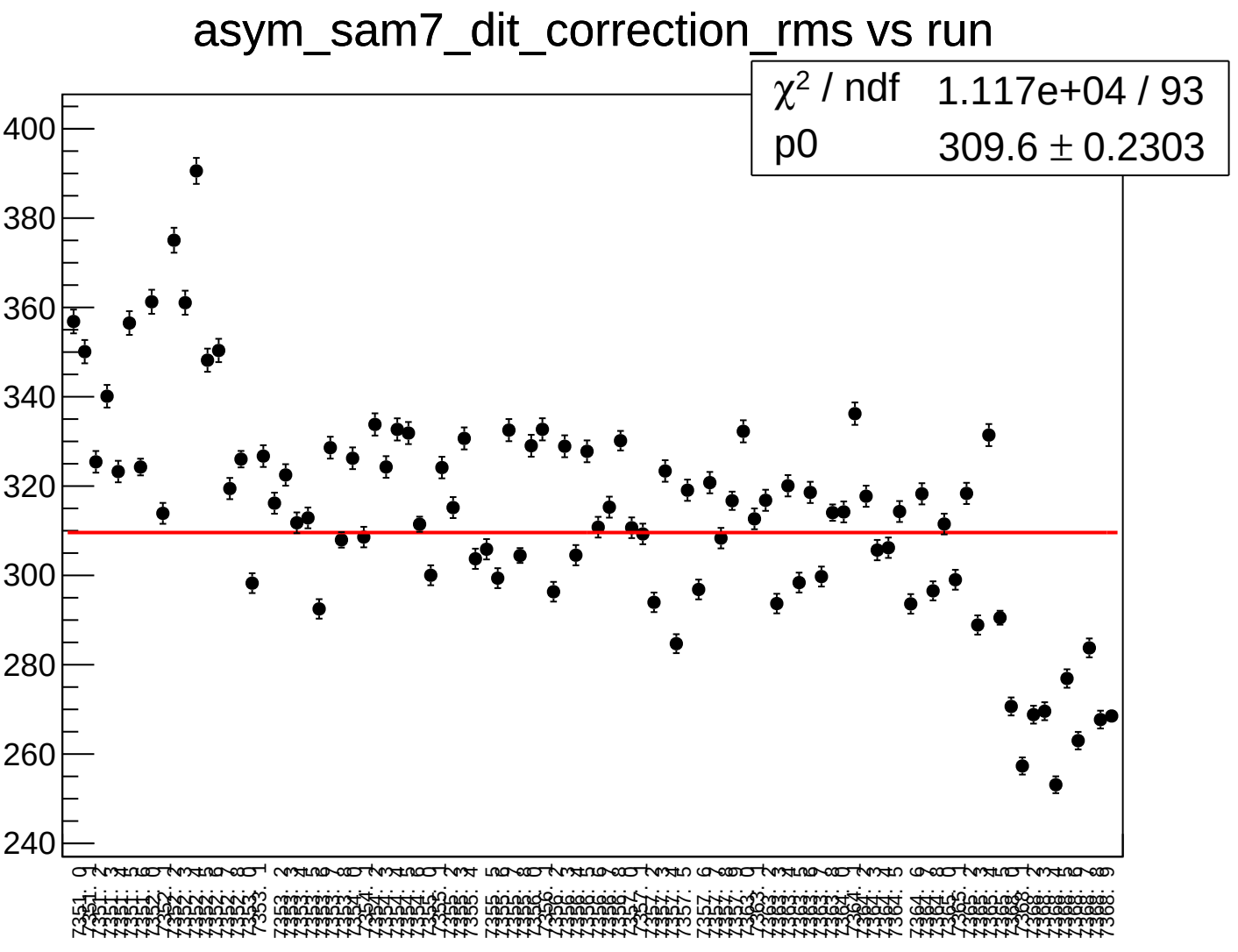

dit_asym_sam7_mean vs run
χ² / ndf 96.87 / 93
p0 −214.9 ± 108.7
8000
6000
4000
2000
0
−2000
−4000
pull
Entries 94
Mean −16.07
Std Dev 22.84
2
1
0
−1
−2

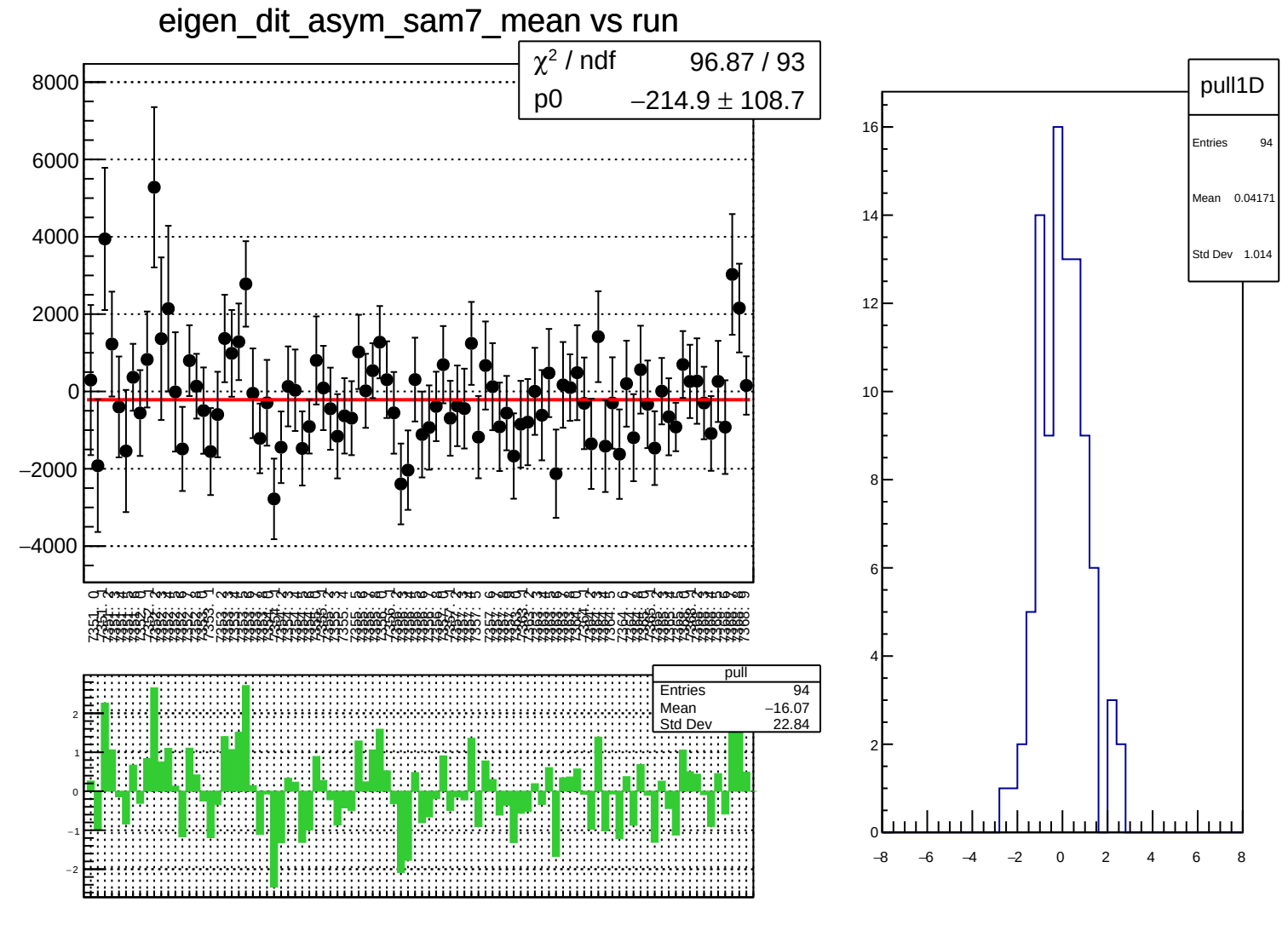

pull1D
Entries 94
Mean 0.04171
Std Dev 1.014
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

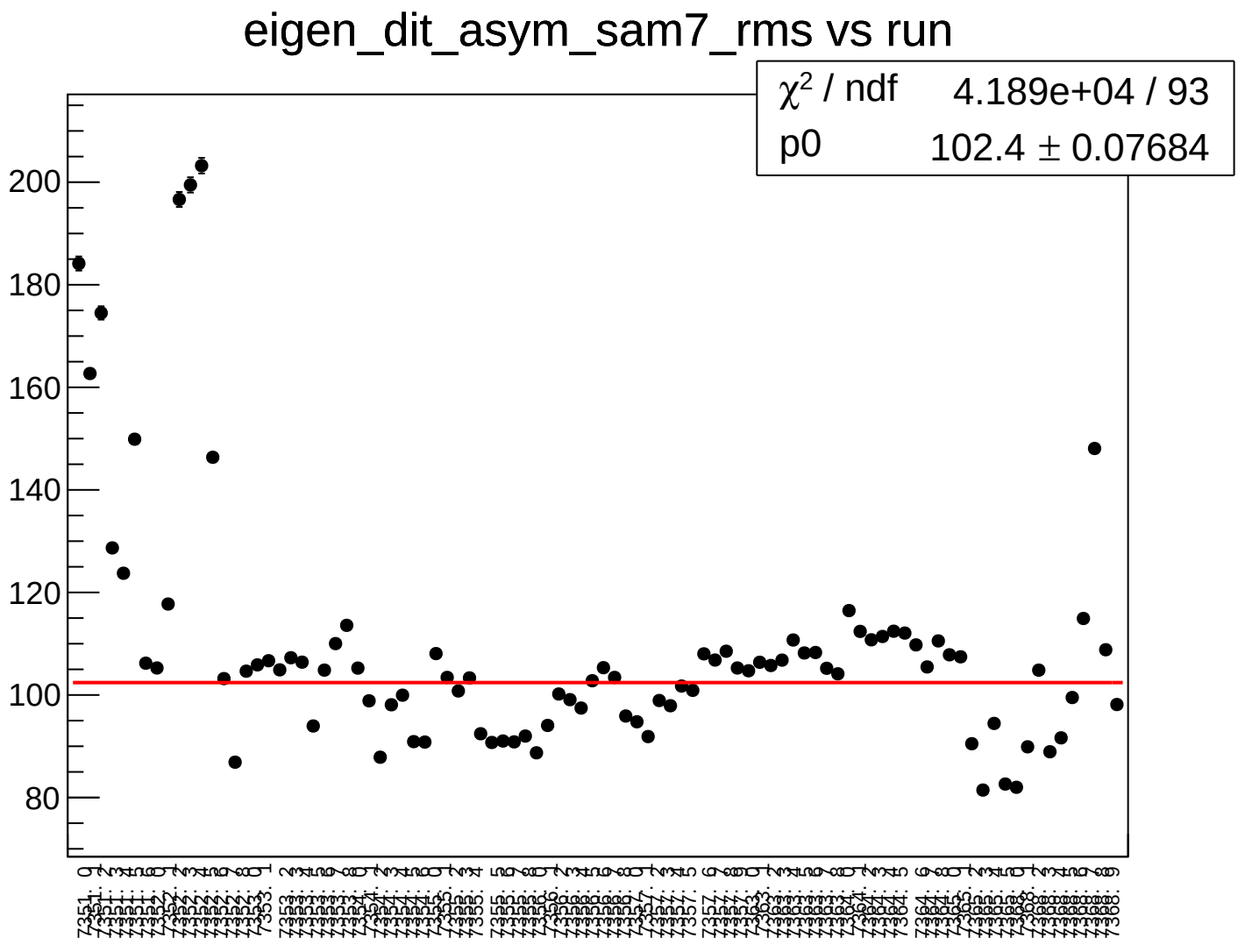

dit_asym_sam7_rms vs run
χ^2 / ndf 4.189e+04 / 93
p0 102.4 ± 0.07684
200
180
160
140
120
100
80

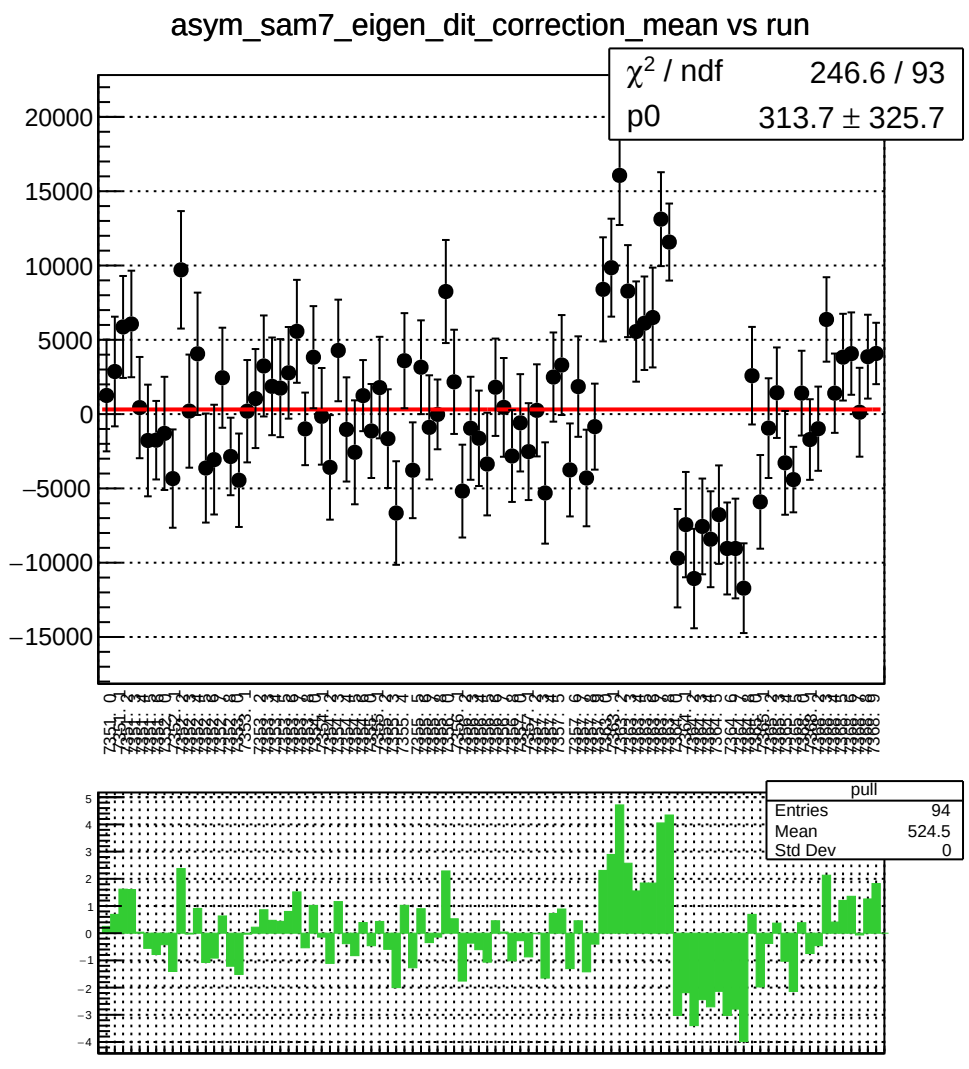

asym_sam7_dit_correction_mean vs run
χ² / ndf 246.6 / 93
p0 313.7 ± 325.7
pull
Entries 94
Mean 524.6
Std Dev 0

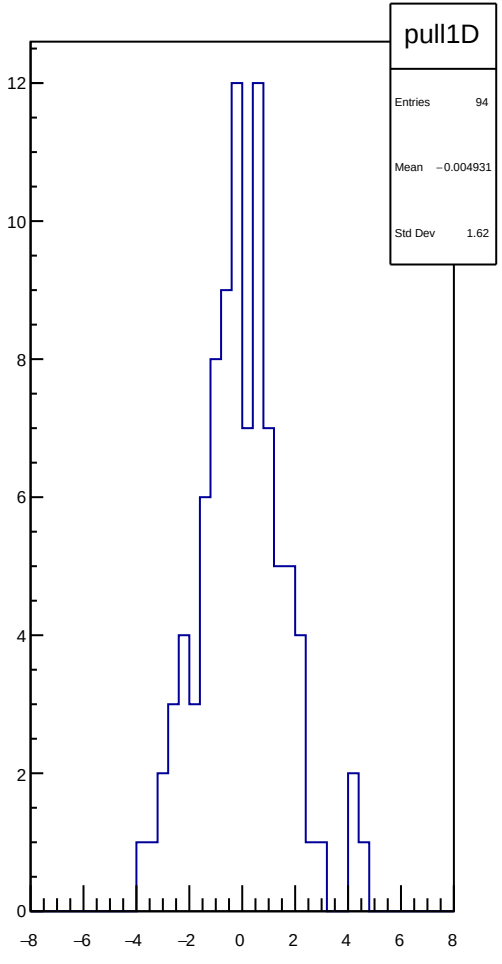

pull1D
Entries 94
Mean −0.004931
Std Dev 1.62

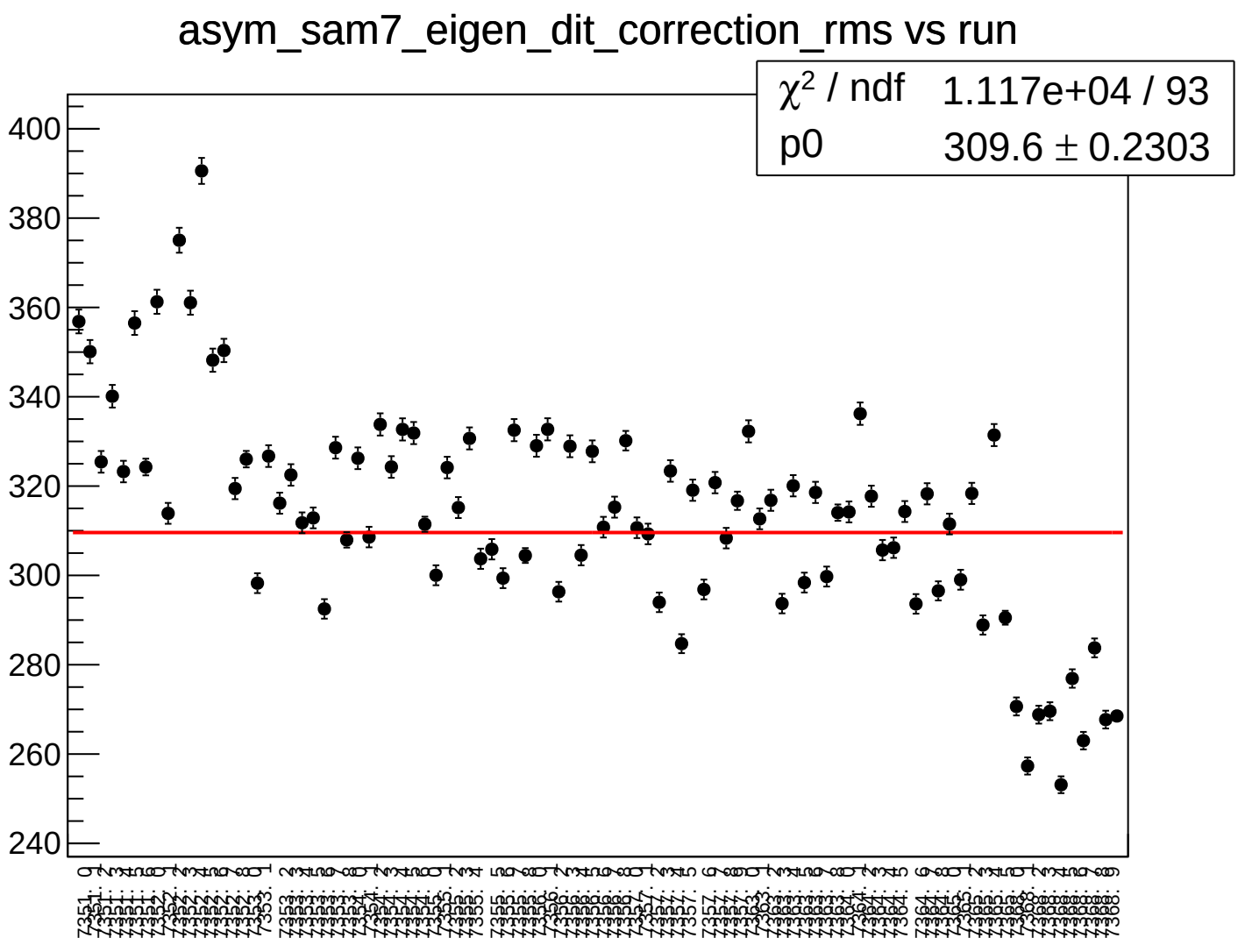

asym_sam7_dit_correction_rms vs run
χ² / ndf 1.117e+04 / 93
p0 309.6 ± 0.2303
400
380
360
340
320
300
280
260
240

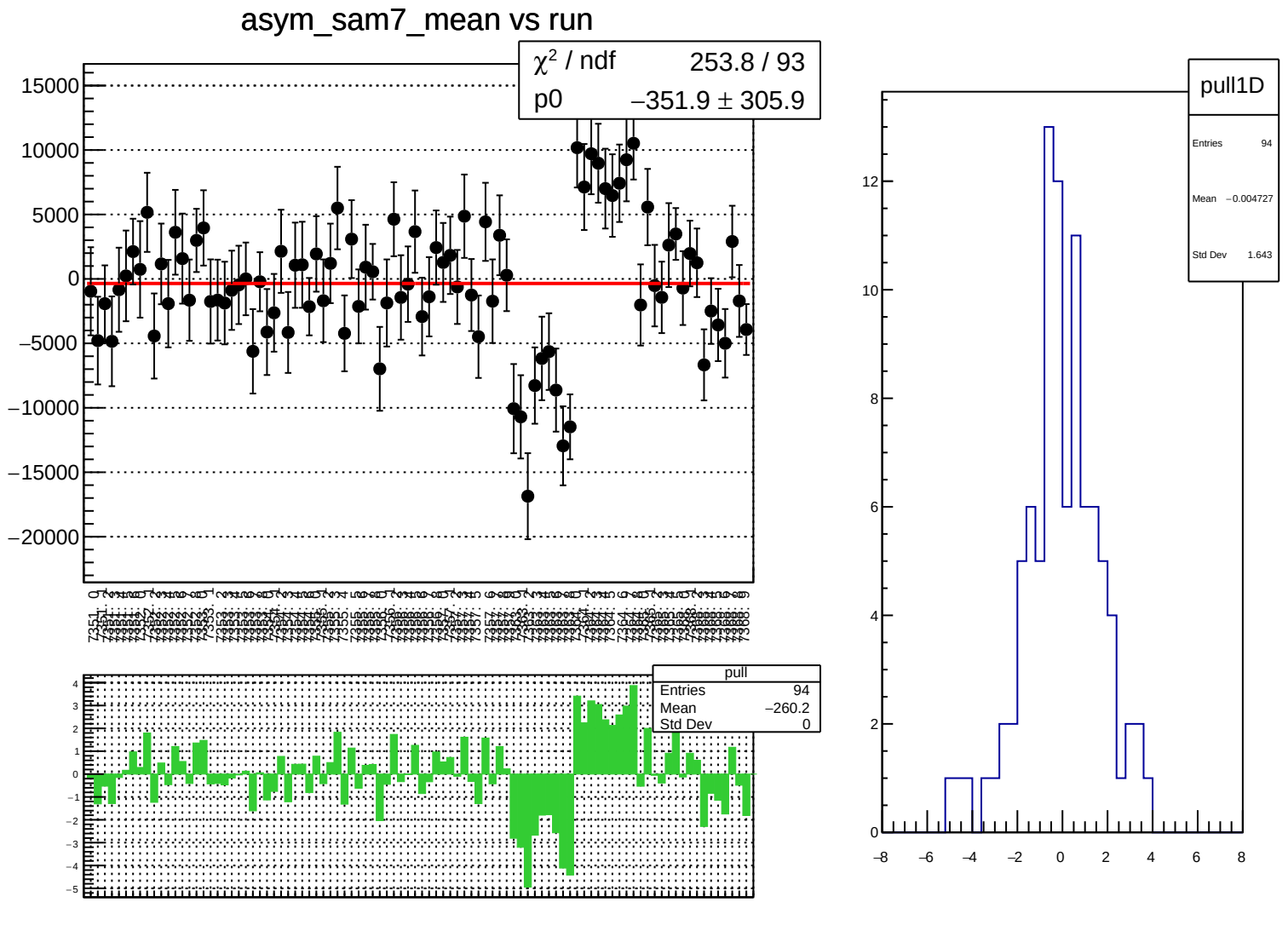

eigen_dit_asym_sam7_mean vs run
χ² / ndf 96.87 / 93
p0 −214.9 ± 108.7
pull
Entries 94
Mean −16.07
Std Dev 22.84
pull1D
Entries 94
Mean 0.04171
Std Dev 1.014

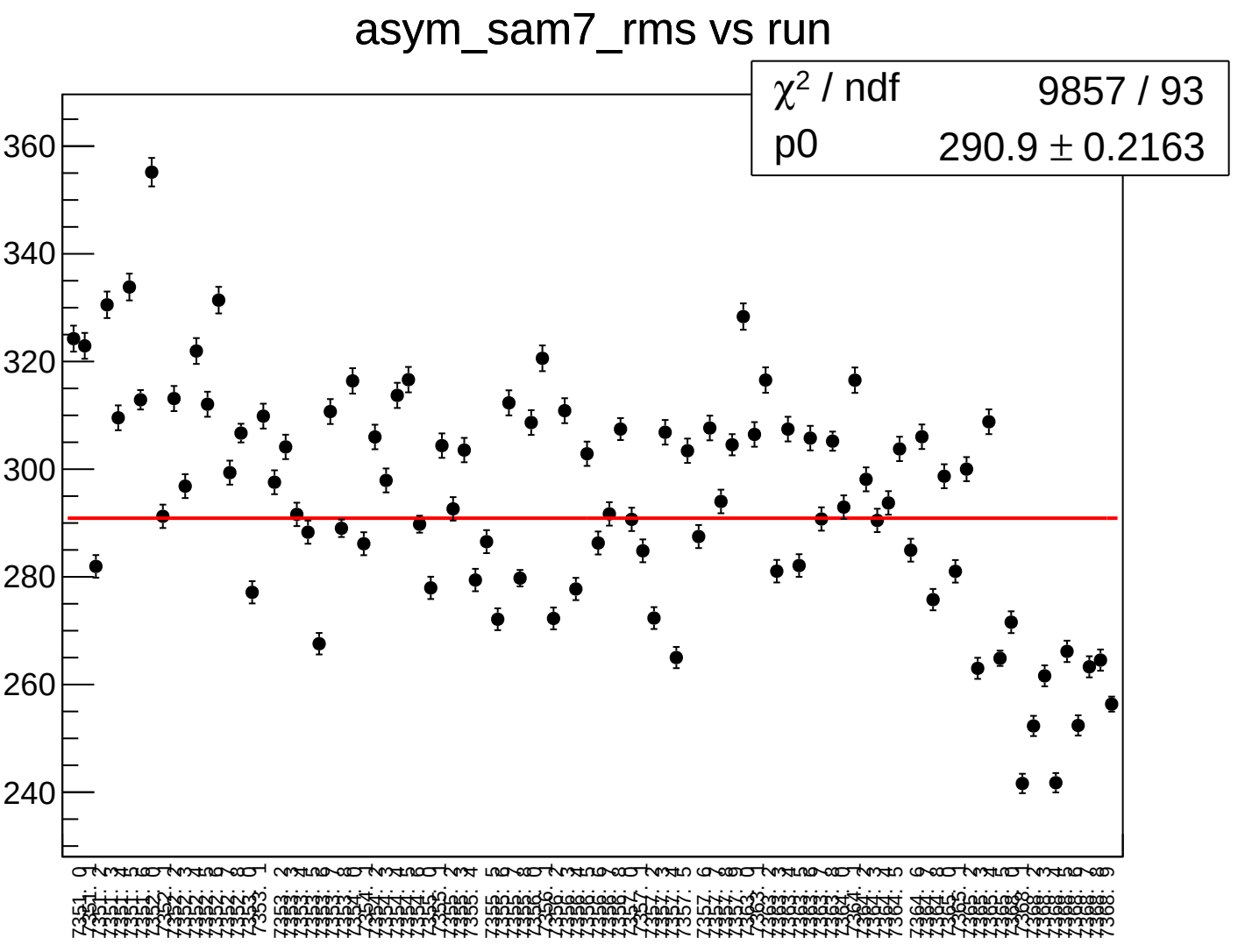

eigen_dit_asym_sam7_rms vs run
χ^2 / ndf 4.189e+04 / 93
p0 102.4 ± 0.07684
200
180
160
140
120
100
80

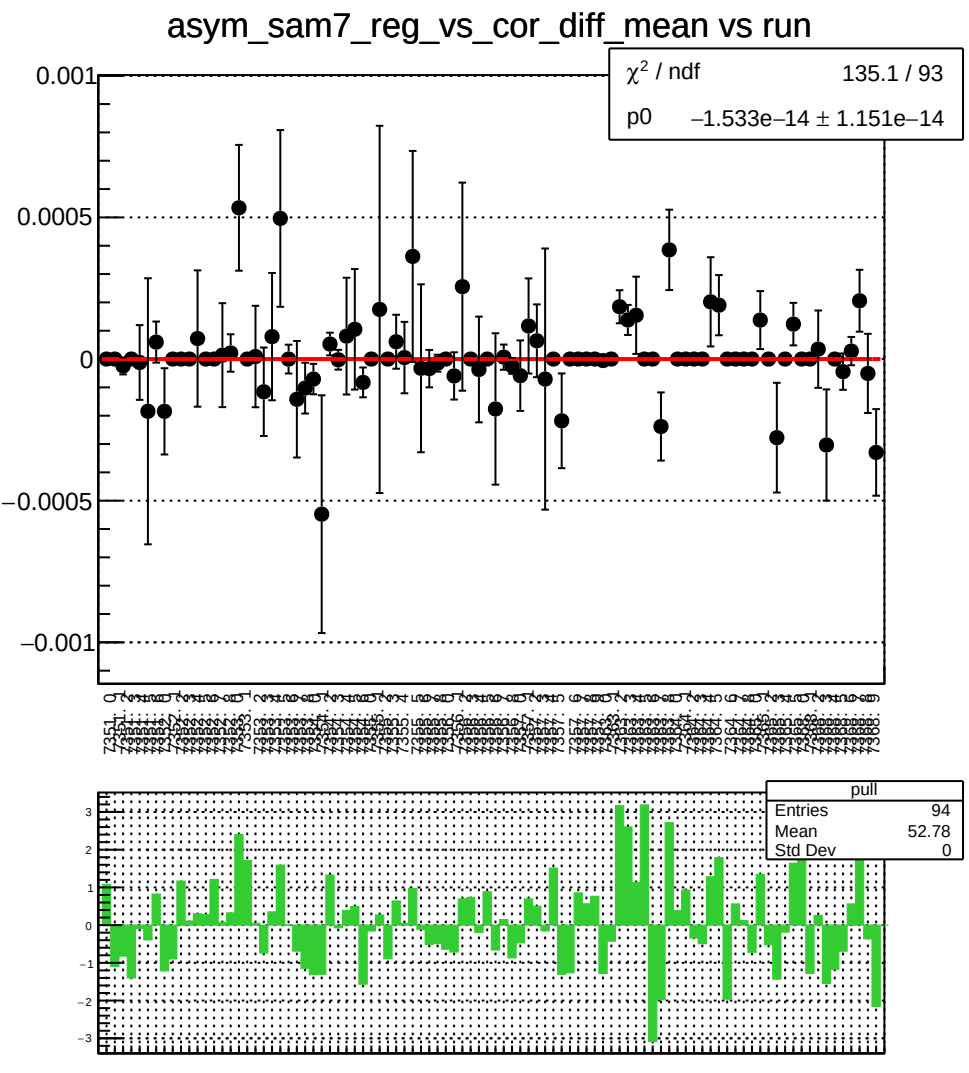

asym_sam7_eigen_dit_correction_mean vs run
χ² / ndf 246.6 / 93
p0 313.7 ± 325.7
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean 524.5
Std Dev 0
5
4
3
2
1
0
−1
−2
−3
−4

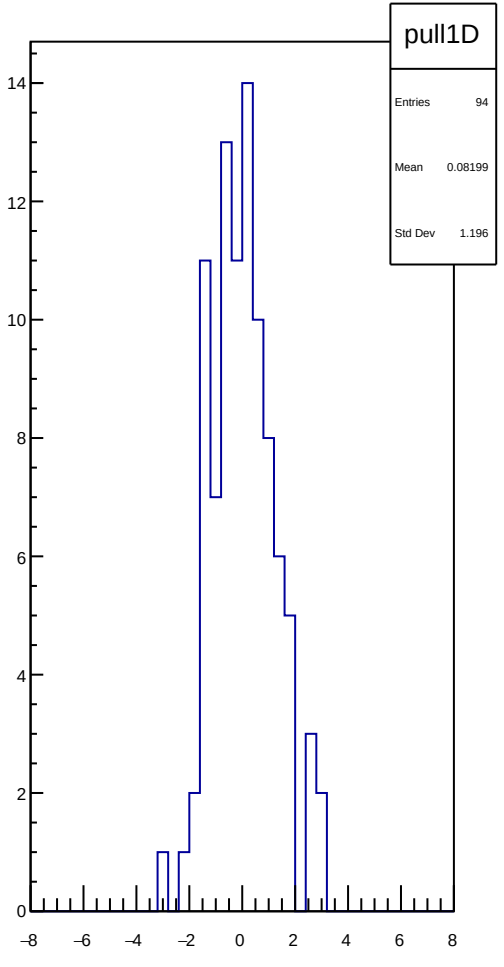

pull1D
Entries 94
Mean −0.004931
Std Dev 1.62
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

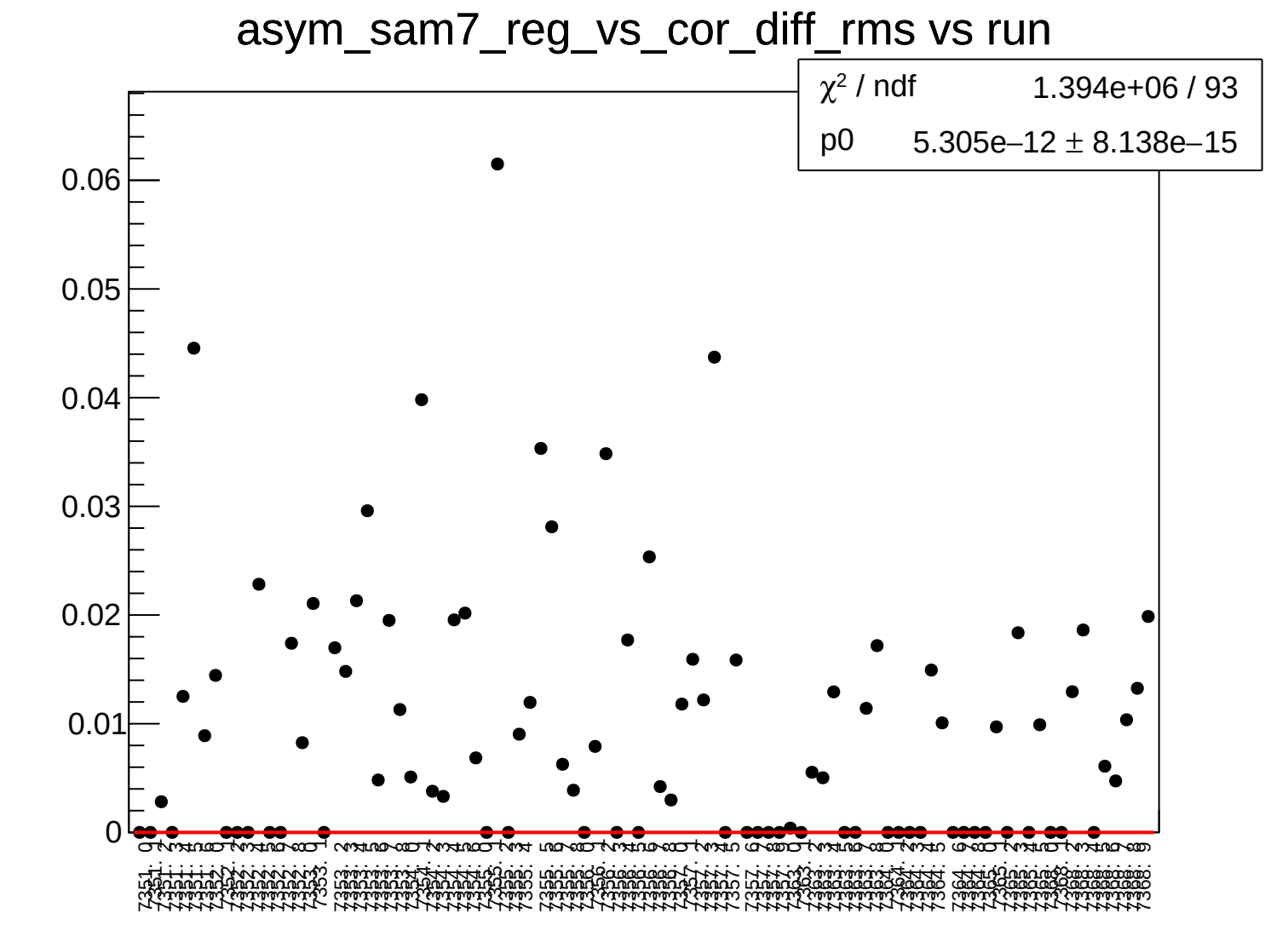

asym_sam7_eigen_dit_correction_rms vs run
χ² / ndf 1.117e+04 / 93
p0 309.6 ± 0.2303
400
380
360
340
320
300
280
260
240

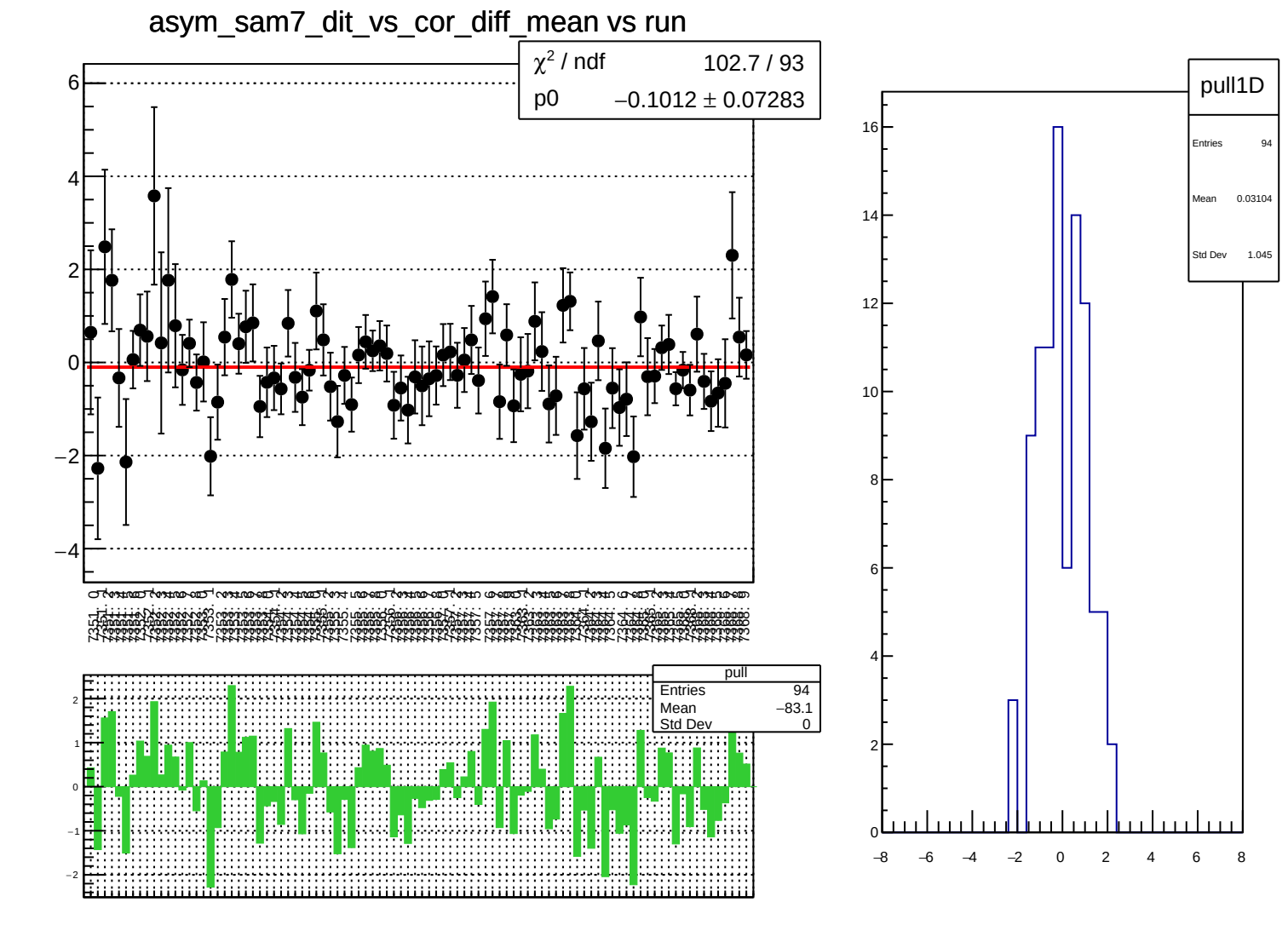

asym_sam7_mean vs run
χ² / ndf 253.8 / 93
p0 −351.9 ± 305.9
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 94
Mean −260.2
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4
−5
pull1D
Entries 94
Mean −0.004727
Std Dev 1.643
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

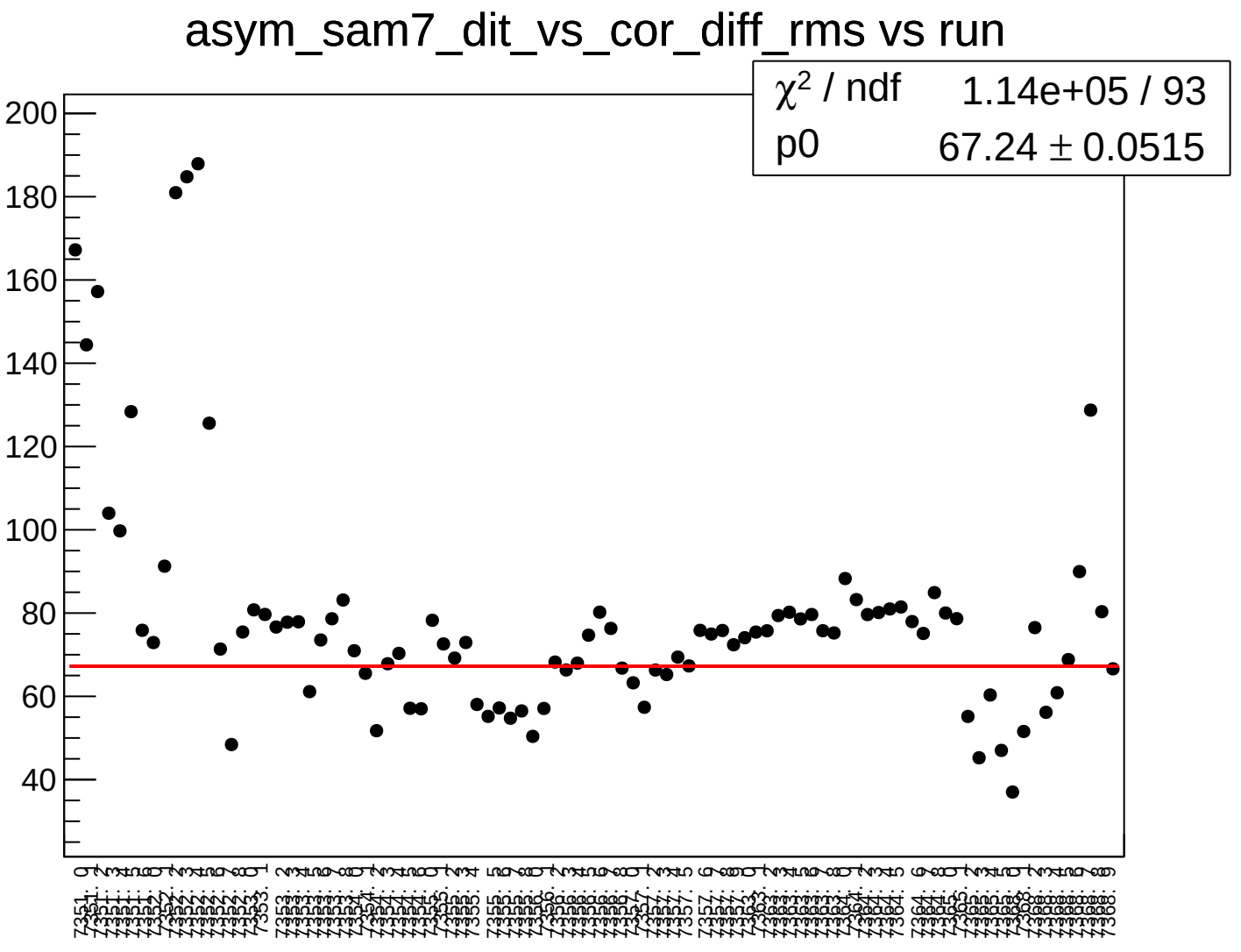

asym_sam7_rms vs run
χ² / ndf 9857 / 93
p0 290.9 ± 0.2163
360
340
320
300
280
260
240

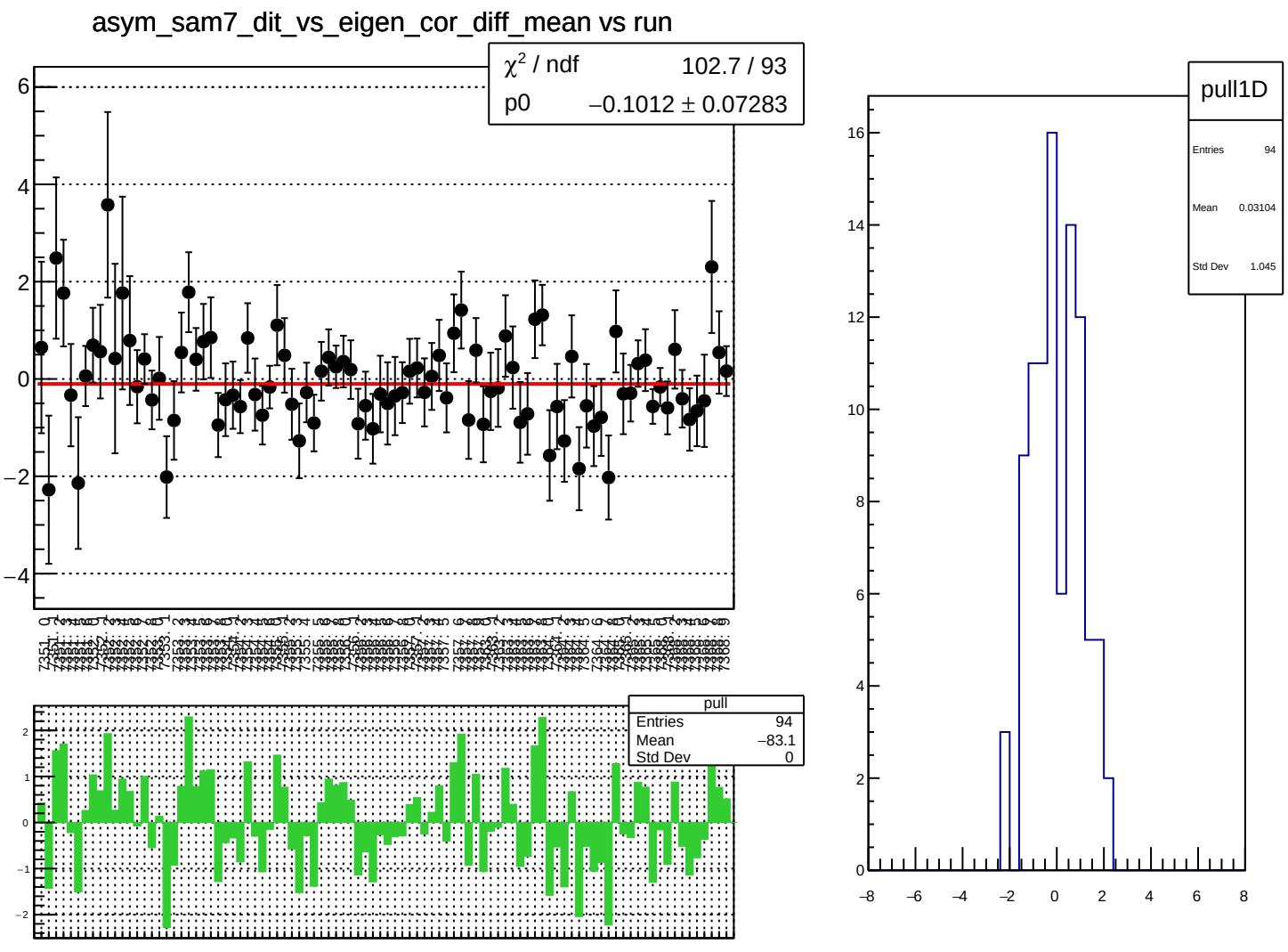

asym_sam7_reg_vs_cor_diff_mean vs run
χ² / ndf 135.1 / 93
p0 −1.533e−14 ± 1.151e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 94
Mean 52.78
Std Dev 0
3
2
1
0
−1
−2
−3

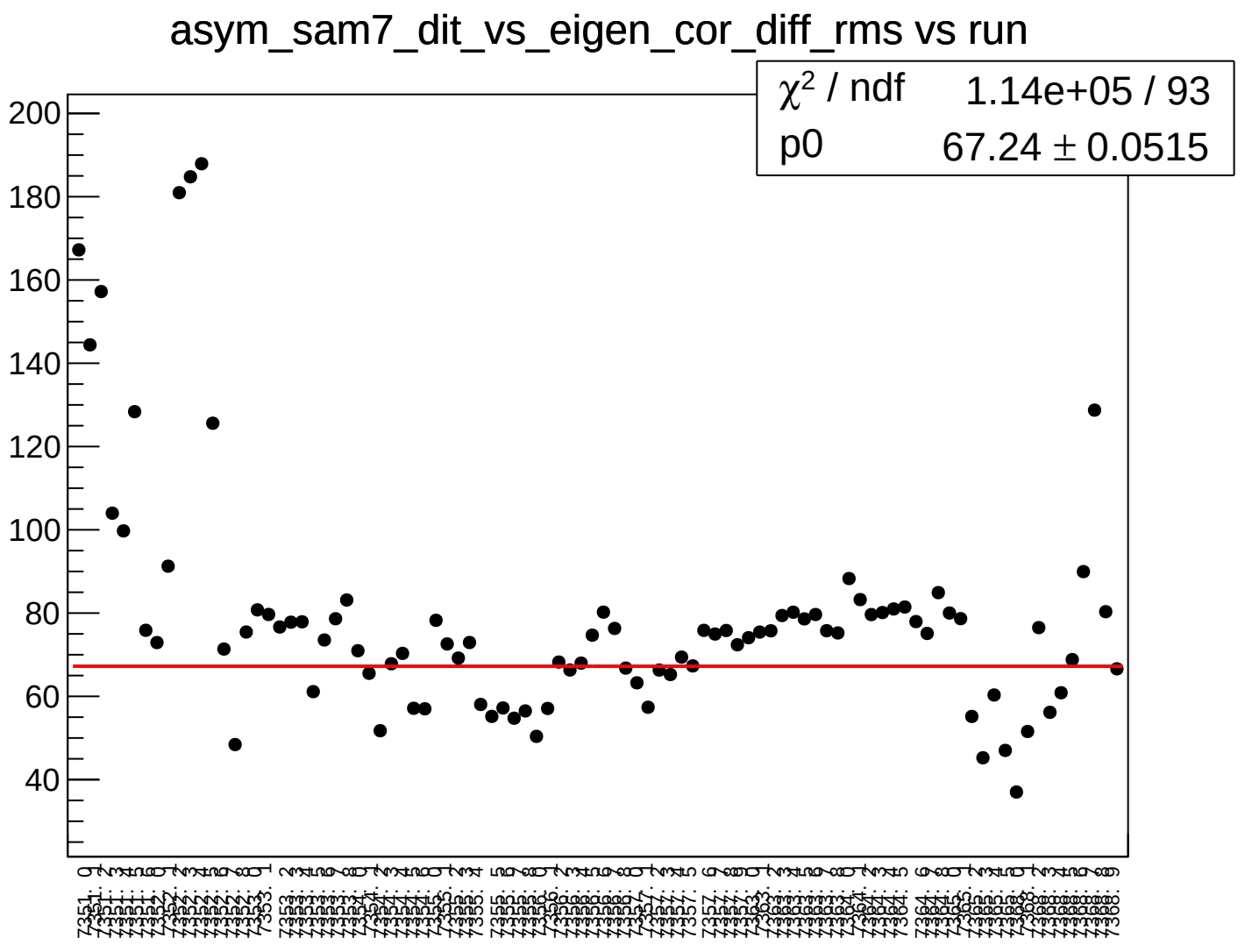

pull1D
Entries 94
Mean 0.08199
Std Dev 1.196
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

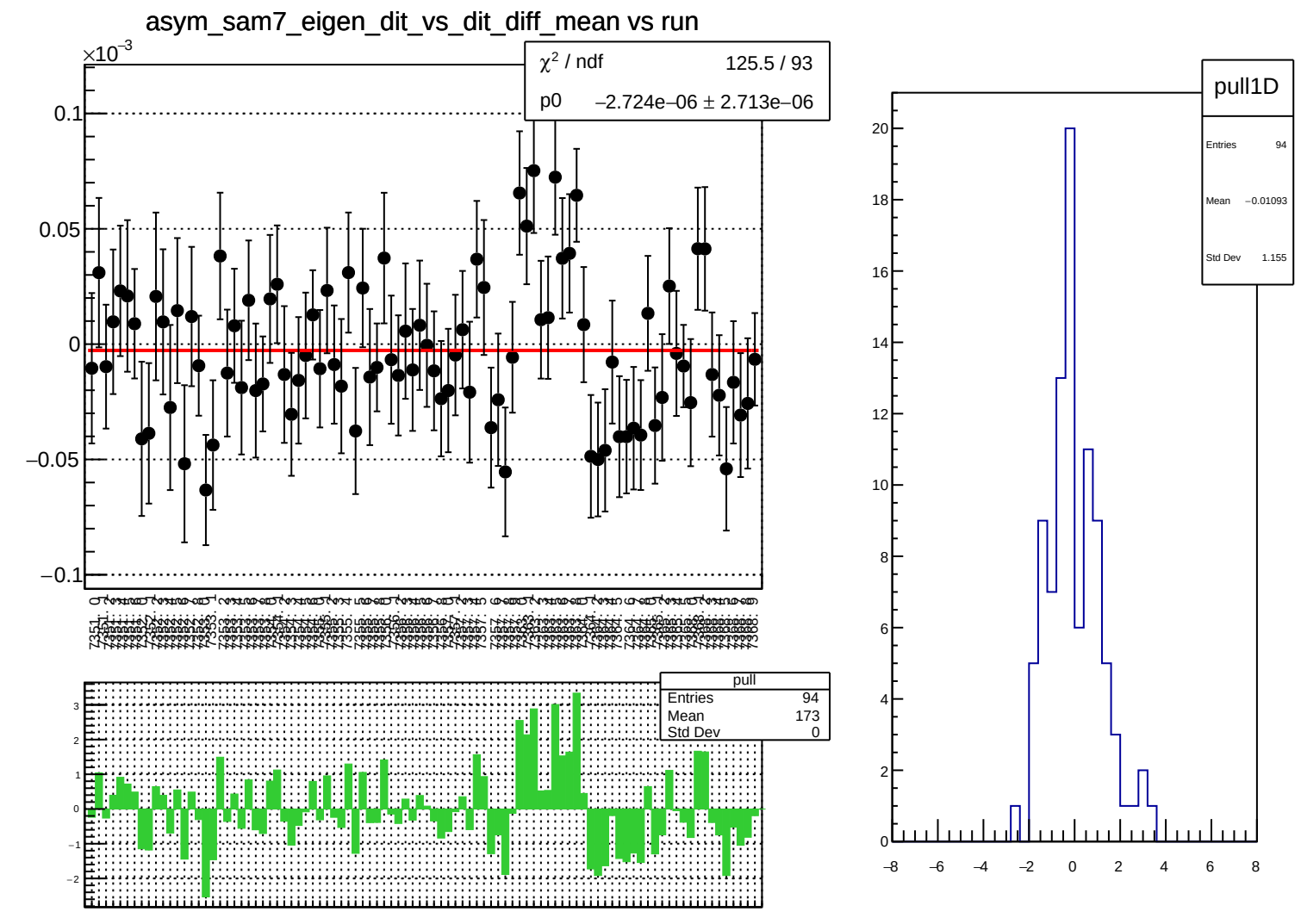

asym_sam7_reg_vs_cor_diff_rms vs run
χ² / ndf 1.394e+06 / 93
p0 5.305e−12 ± 8.138e−15
0.06
0.05
0.04
0.03
0.02
0.01
0

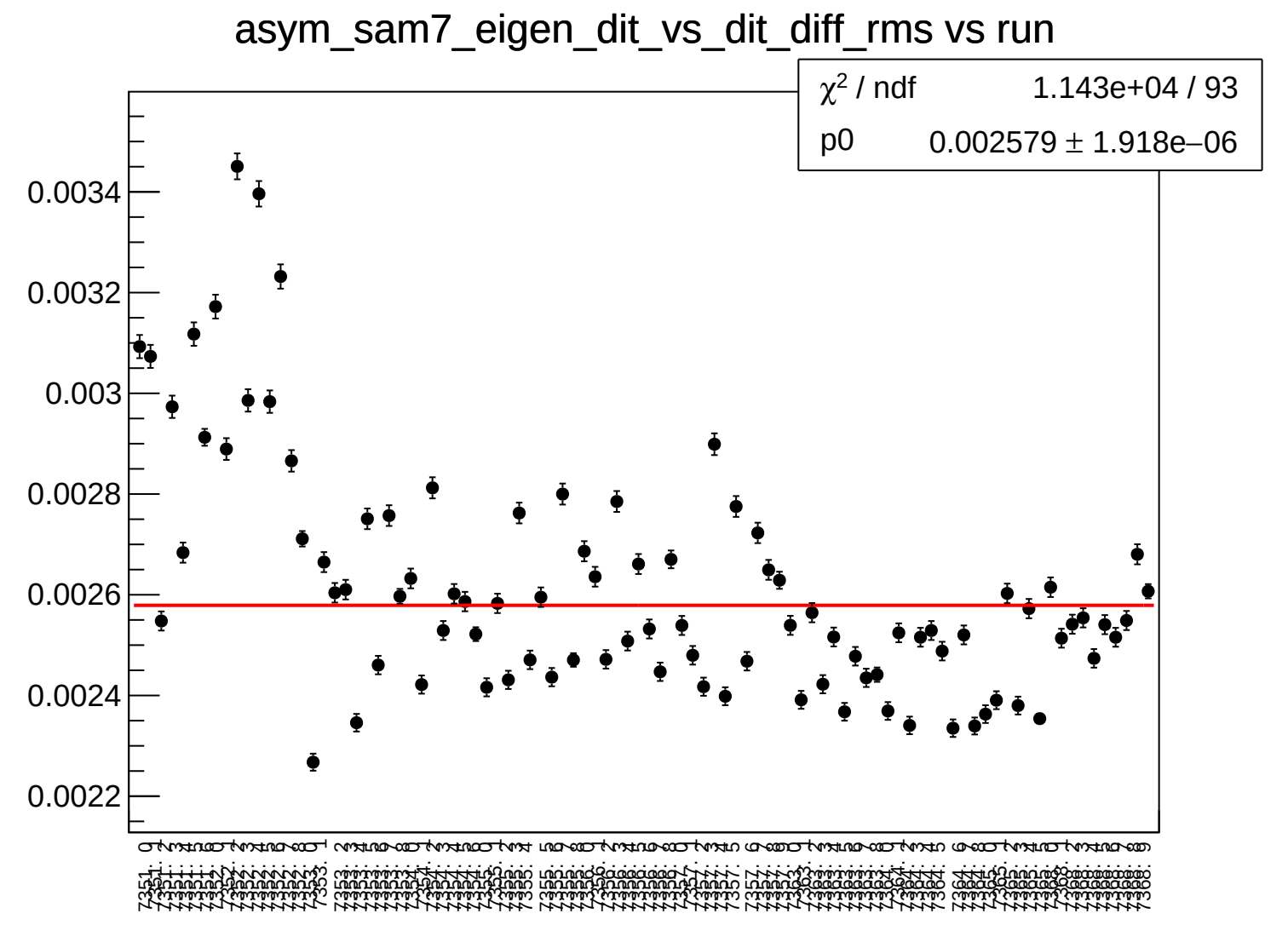

asym_sam7_dit_vs_cor_diff_mean vs run
χ² / ndf 102.7 / 93
p0 −0.1012 ± 0.07283
pull
Entries 94
Mean −83.1
Std Dev 0
pull1D
Entries 94
Mean 0.03104
Std Dev 1.045

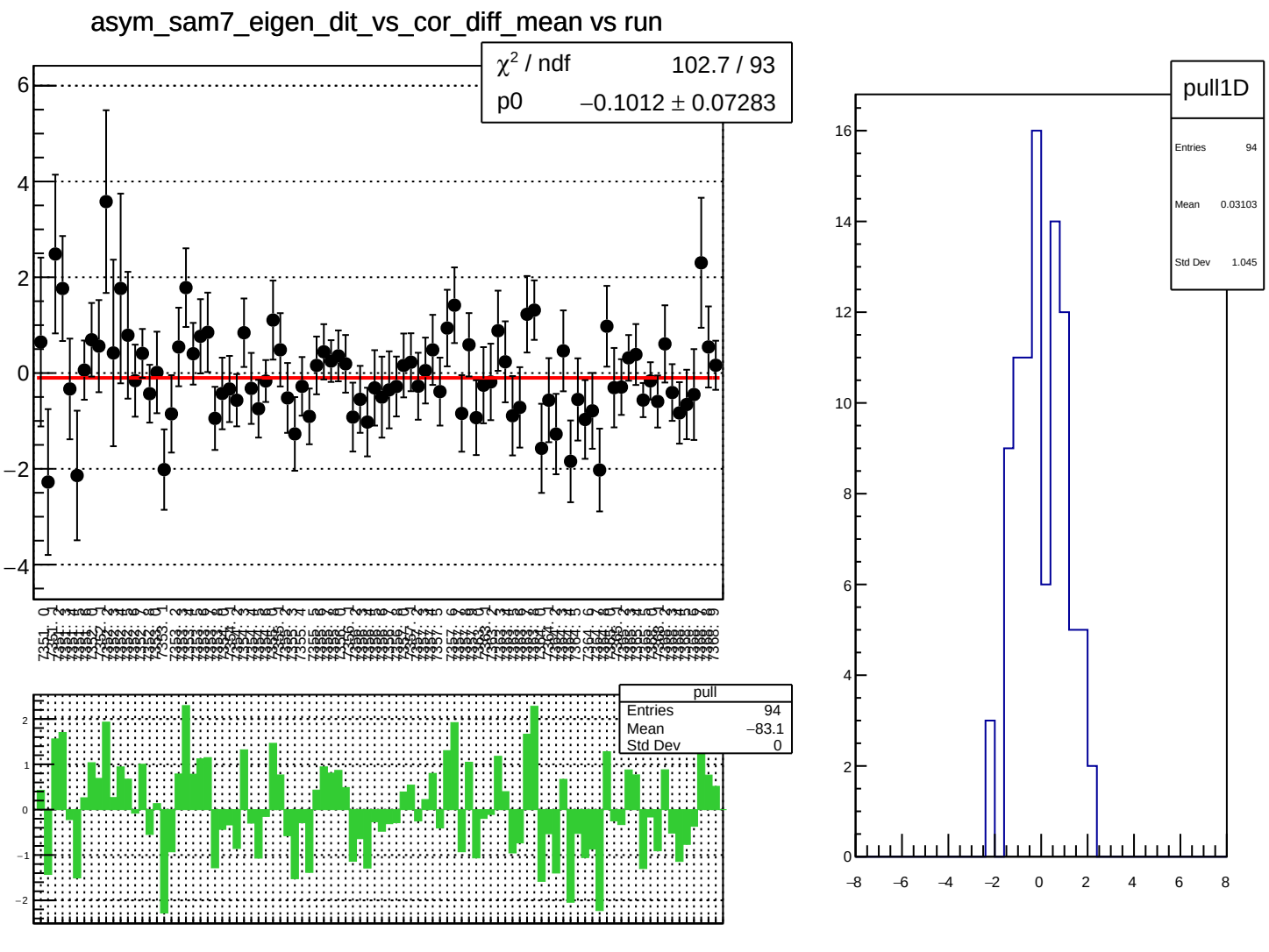

asym_sam7_dit_vs_cor_diff_rms vs run
χ² / ndf 1.14e+05 / 93
p0 67.24 ± 0.0515
200
180
160
140
120
100
80
60
40

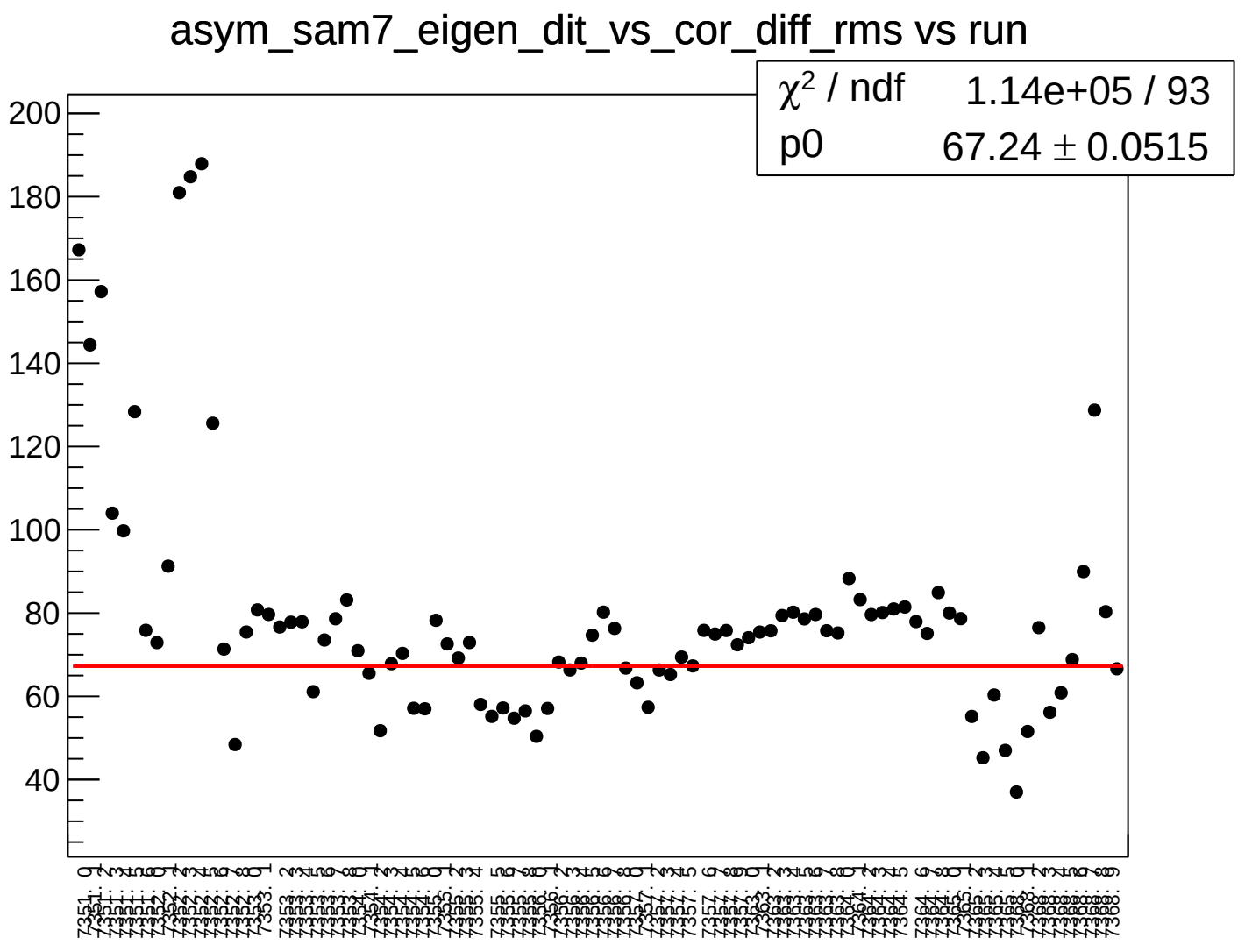

asym_sam7_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.7 / 93
p0 −0.1012 ± 0.07283
pull
Entries 94
Mean −83.1
Std Dev 0
pull1D
Entries 94
Mean 0.03104
Std Dev 1.045

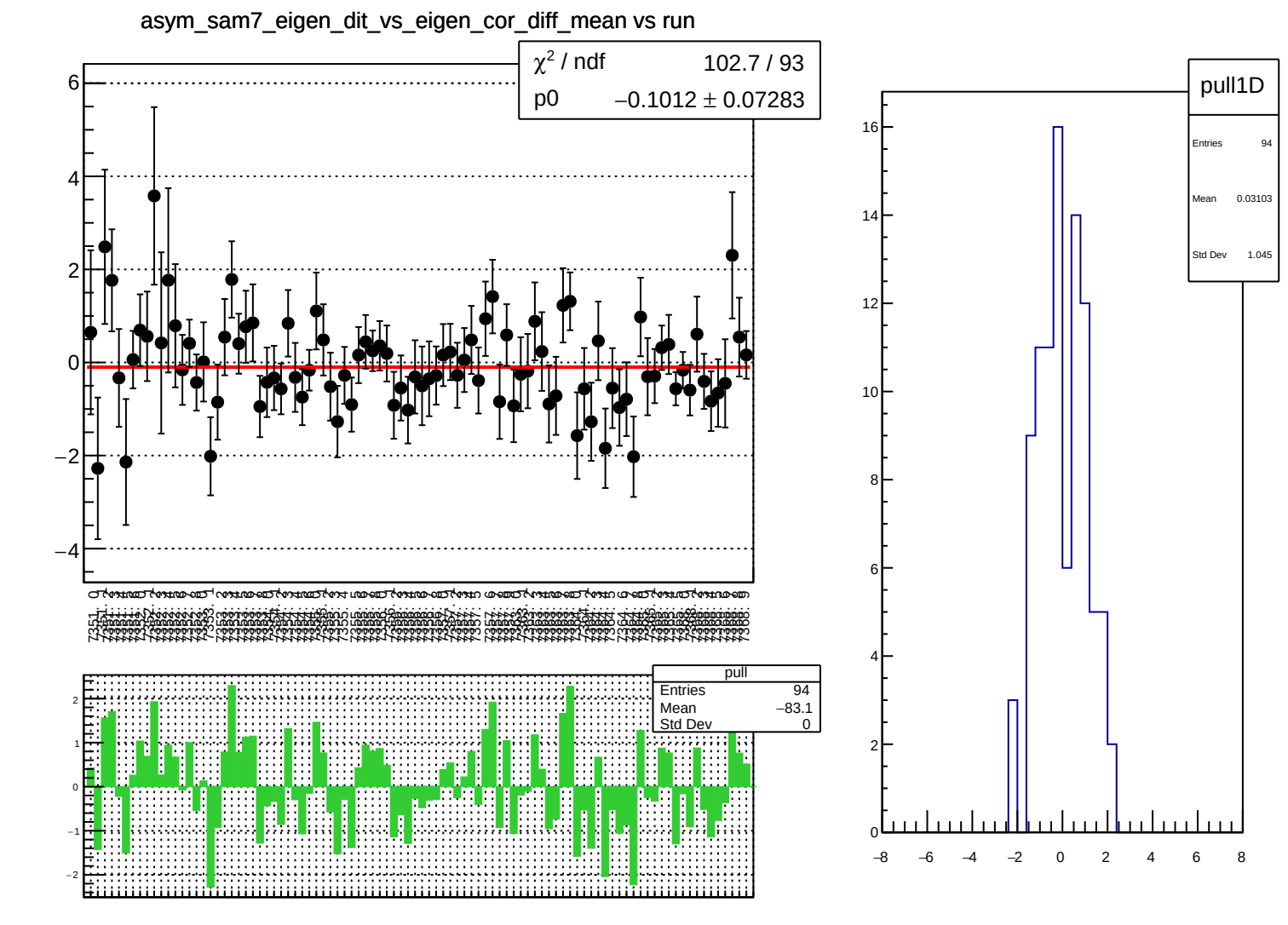

asym_sam7_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.14e+05 / 93
p0 67.24 ± 0.0515
200
180
160
140
120
100
80
60
40

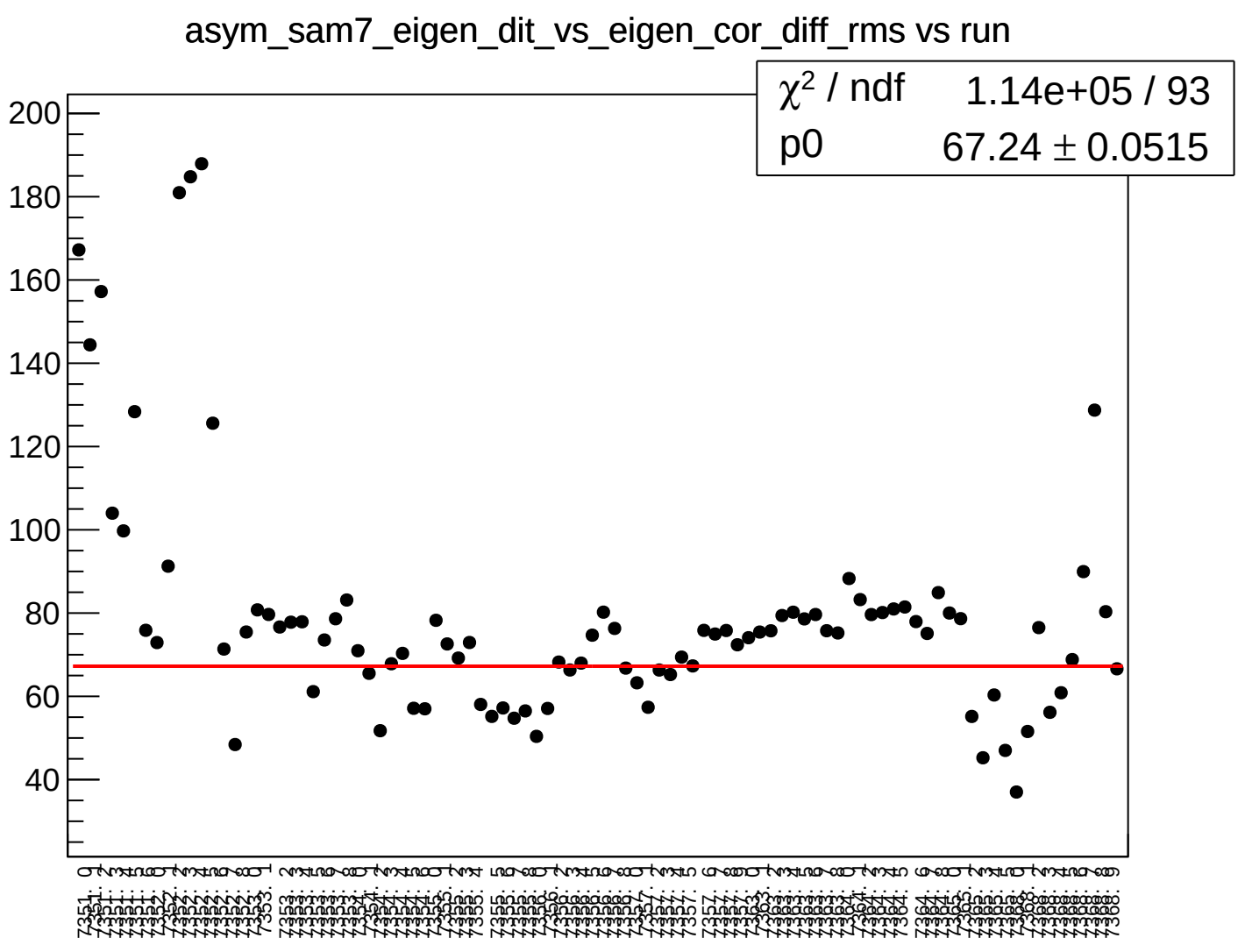

asym_sam7_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 125.5 / 93
p0 −2.724e−06 ± 2.713e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 94
Mean 173
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.01093
Std Dev 1.155
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

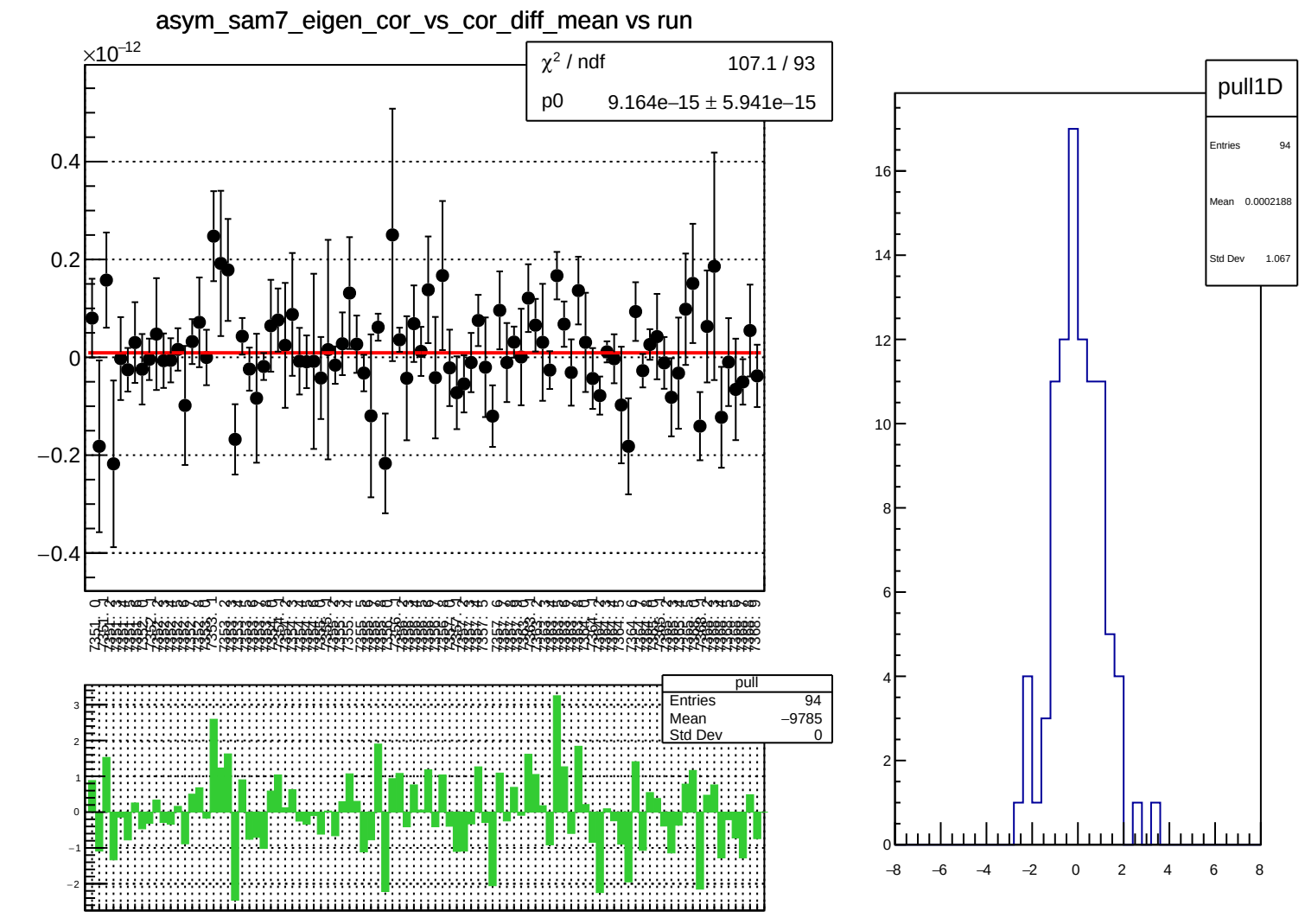

asym_sam7_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.143e+04 / 93
p0 0.002579 ± 1.918e−06
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022

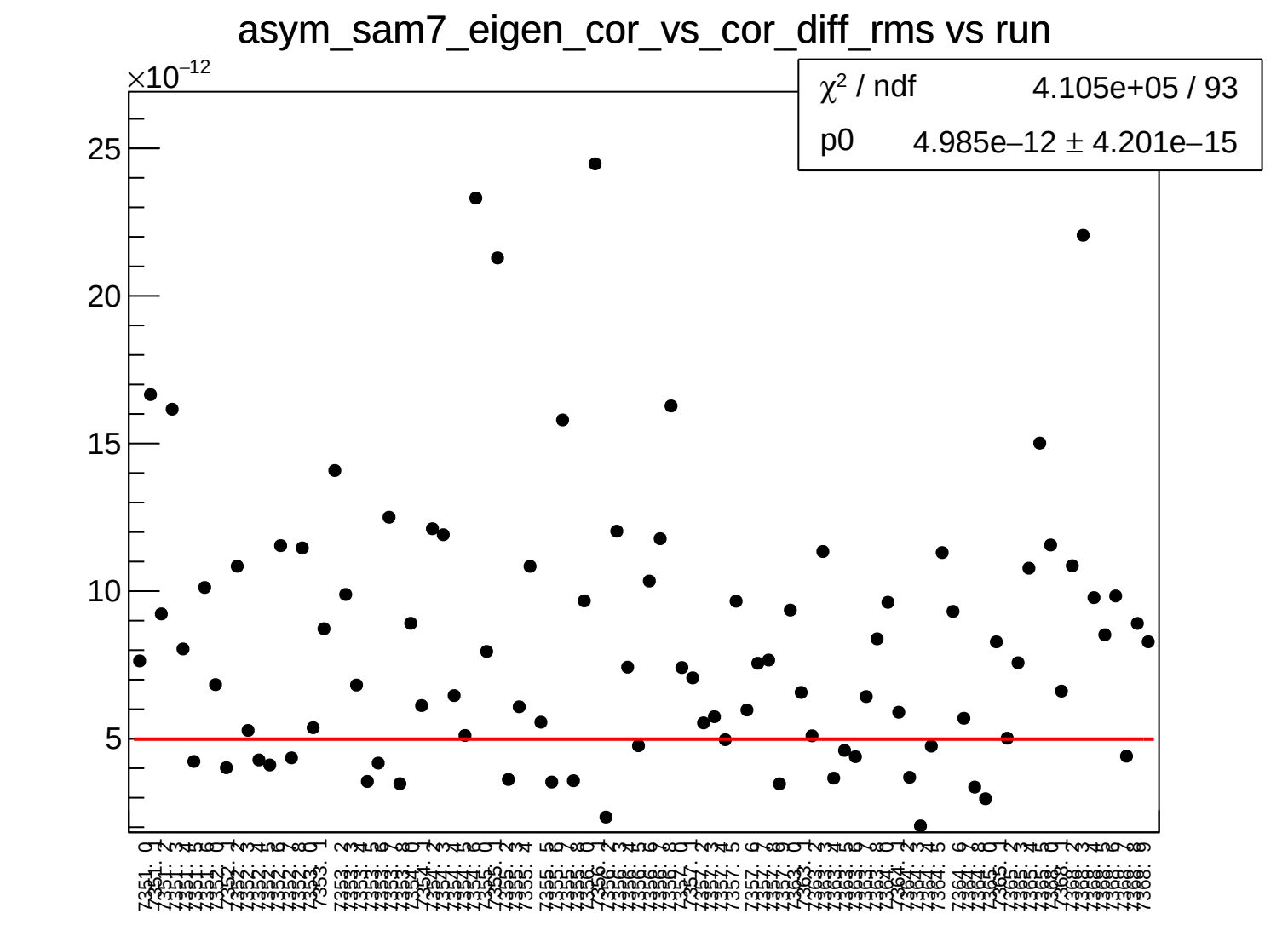

asym_sam7_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 102.7 / 93
p0 −0.1012 ± 0.07283
pull
Entries 94
Mean −83.1
Std Dev 0
pull1D
Entries 94
Mean 0.03103
Std Dev 1.045

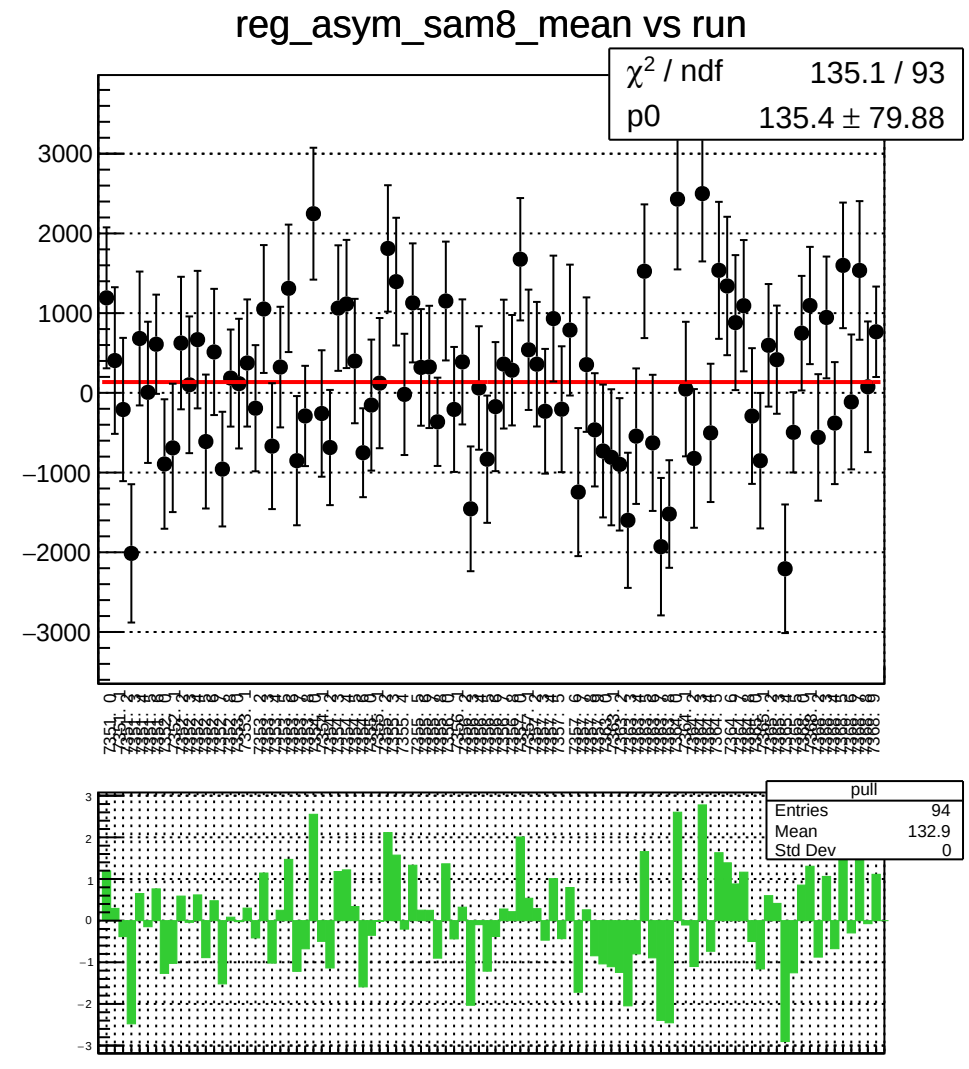

asym_sam7_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.14e+05 / 93
p0 67.24 ± 0.0515
200
180
160
140
120
100
80
60
40

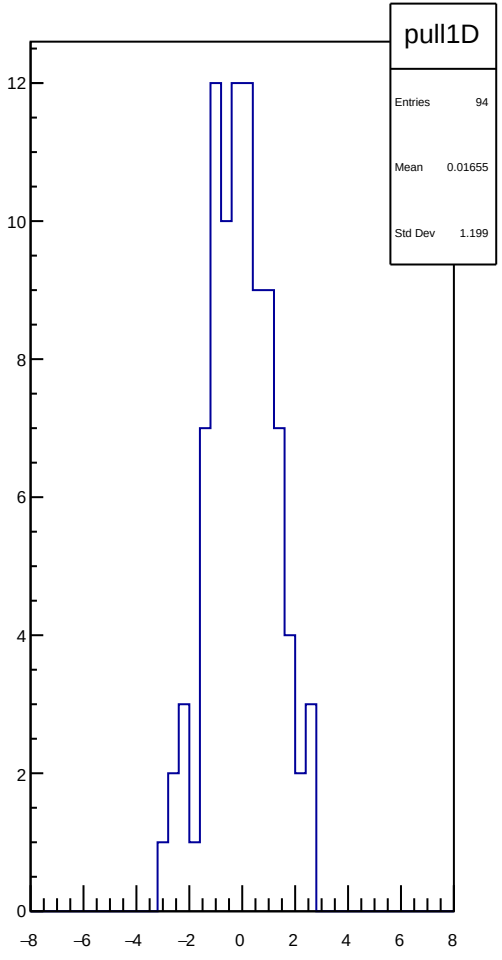

asym_sam7_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.7 / 93
p0 −0.1012 ± 0.07283
pull
Entries 94
Mean −83.1
Std Dev 0
pull1D
Entries 94
Mean 0.03103
Std Dev 1.045

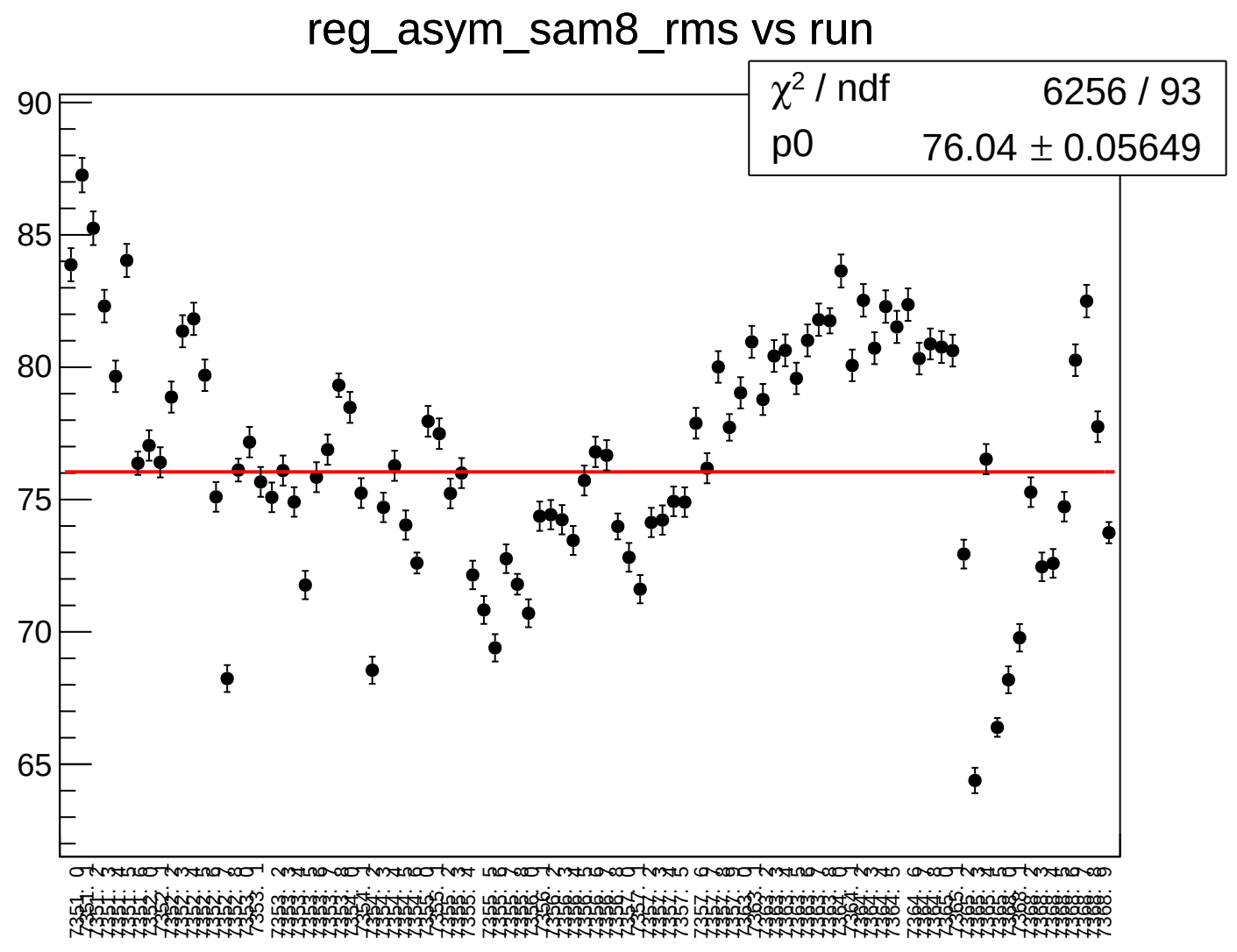

asym_sam7_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.14e+05 / 93
p0 67.24 ± 0.0515
200
180
160
140
120
100
80
60
40

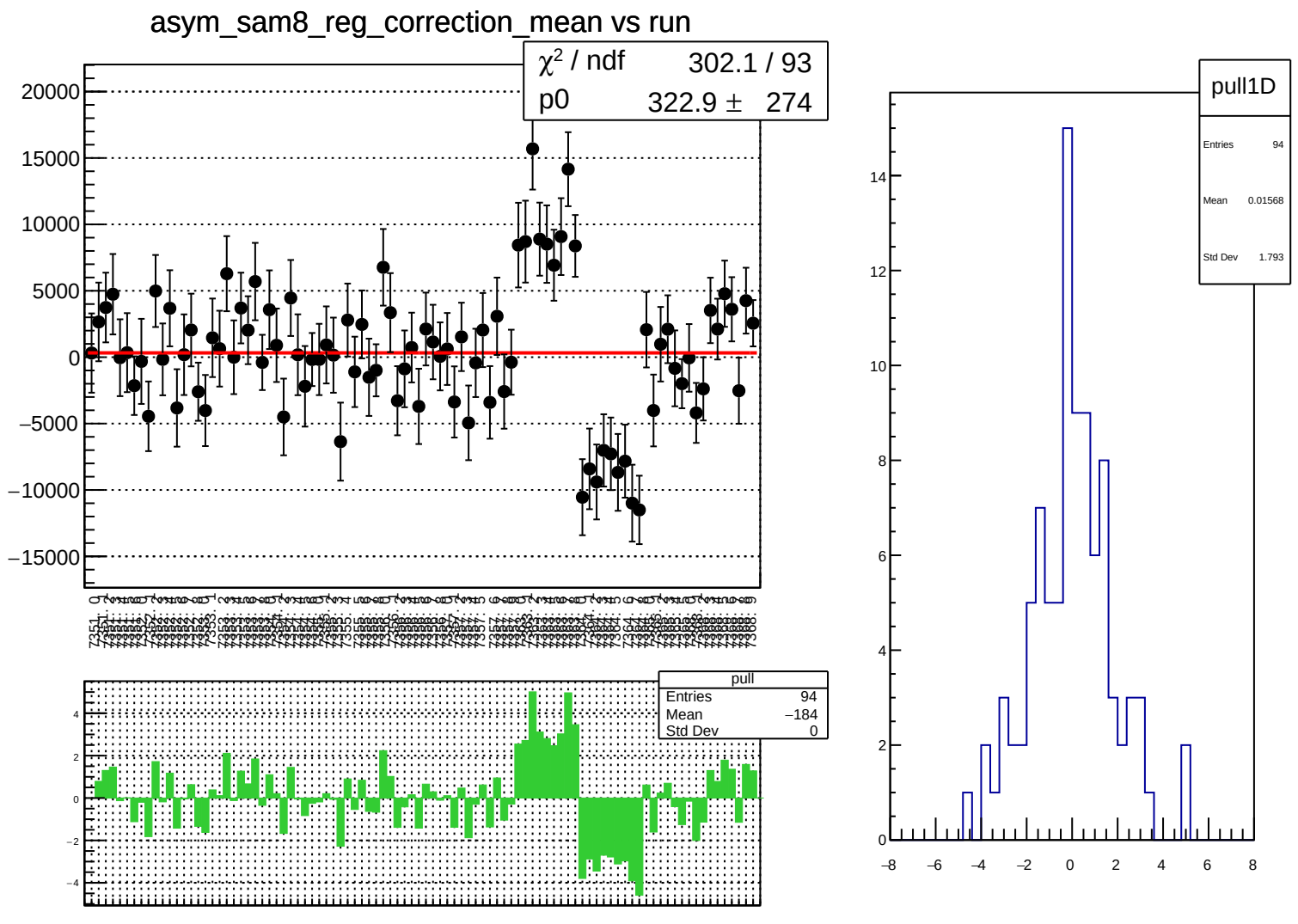

asym_sam7_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 107.1 / 93
p0 9.164e−15 ± 5.941e−15
0.4
0.2
0
−0.2
−0.4
pull
Entries 94
Mean −9785
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.0002188
Std Dev 1.067
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

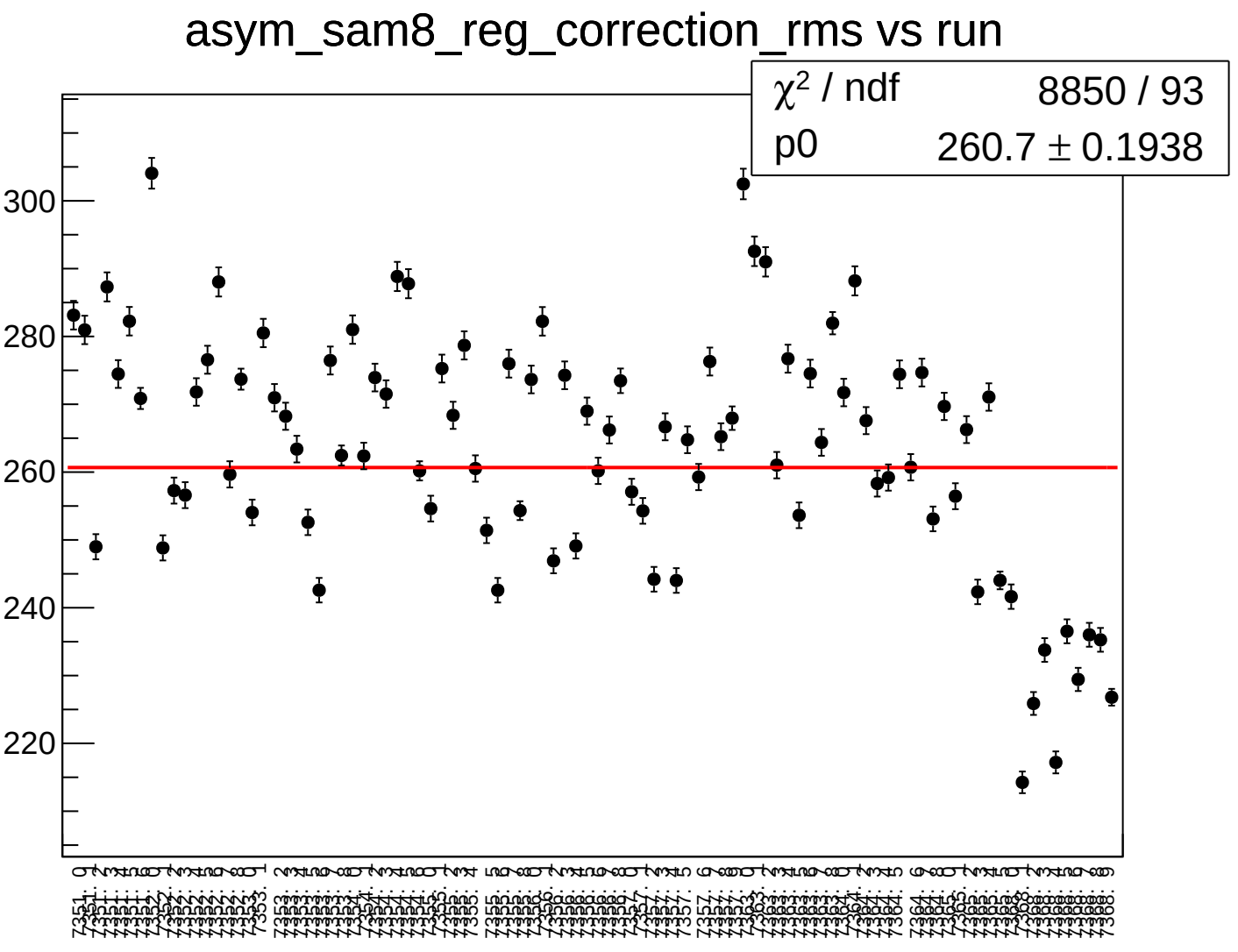

asym_sam7_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.105e+05 / 93
p0 4.985e−12 ± 4.201e−15
25
20
15
10
5

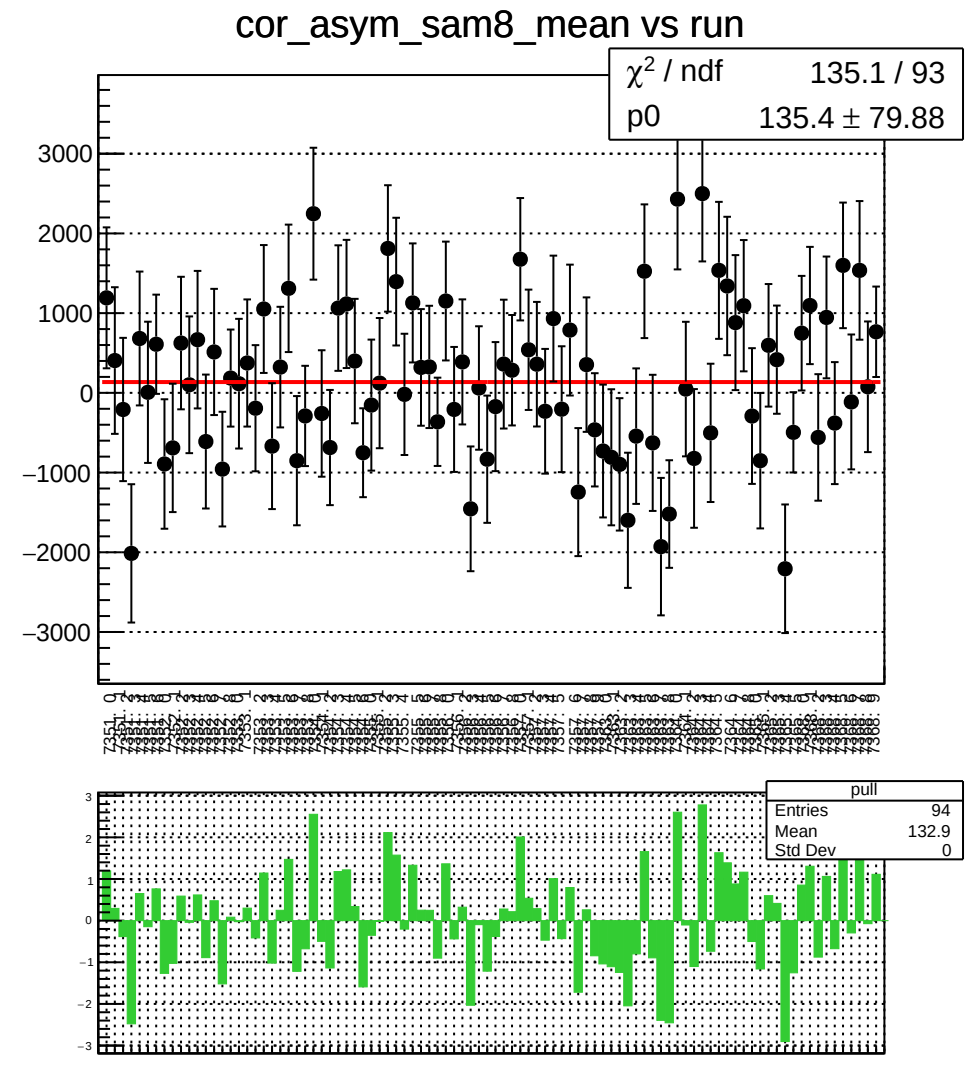

reg_asym_sam8_mean vs run
χ² / ndf 135.1 / 93
p0 135.4 ± 79.88
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 94
Mean 132.9
Std Dev 0
3
2
1
0
−1
−2
−3

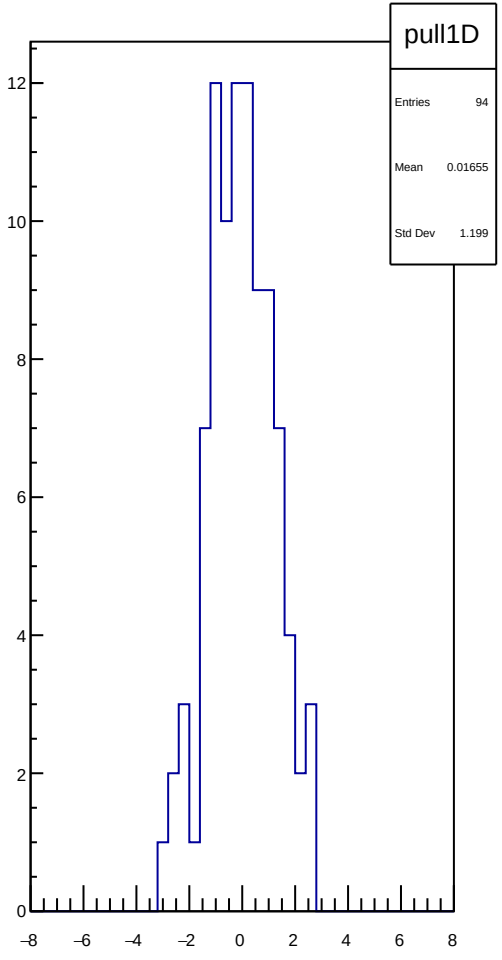

pull1D
Entries 94
Mean 0.01655
Std Dev 1.199
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

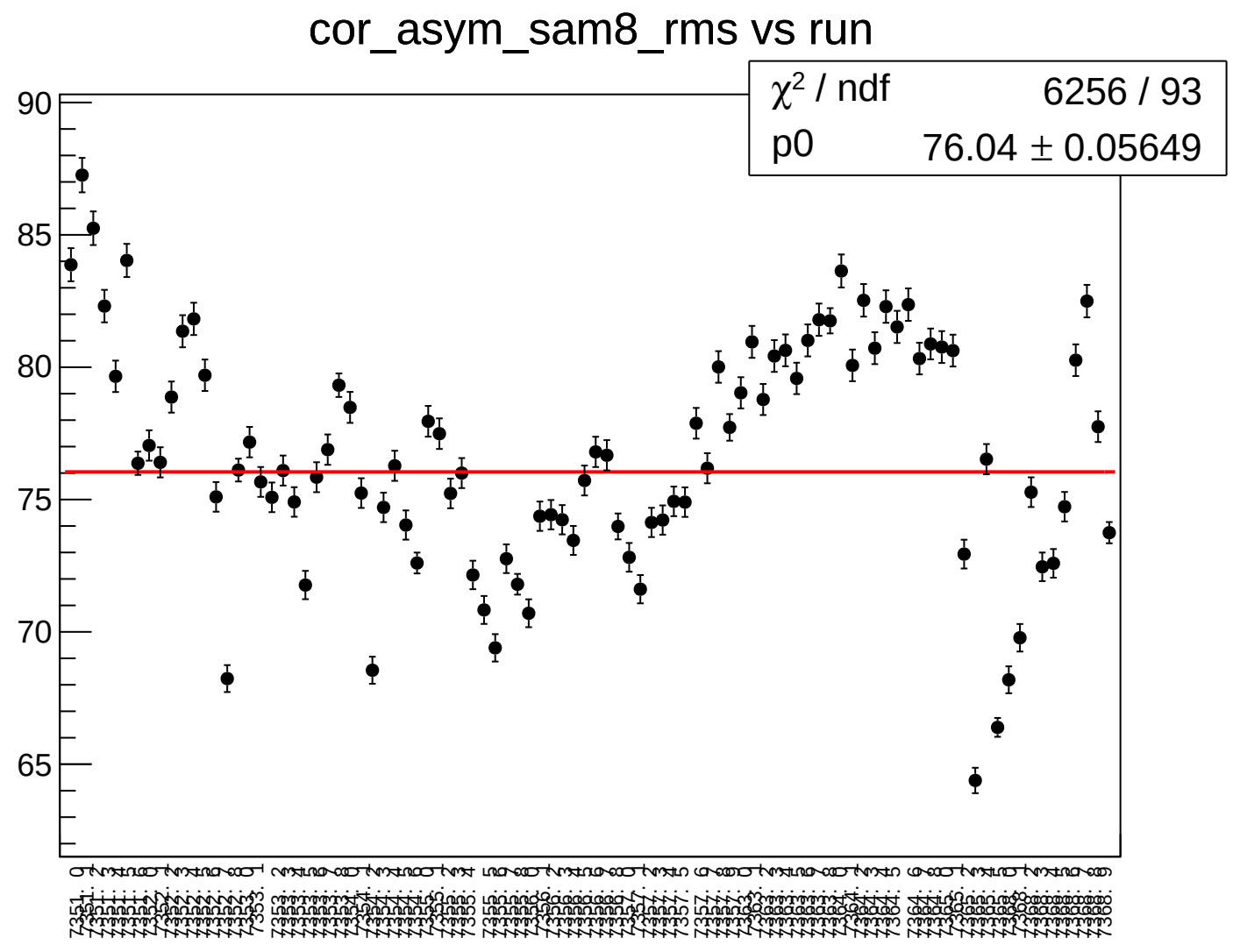

reg_asym_sam8_rms vs run
χ^2 / ndf 6256 / 93
p0 76.04 ± 0.05649
90
85
80
75
70
65

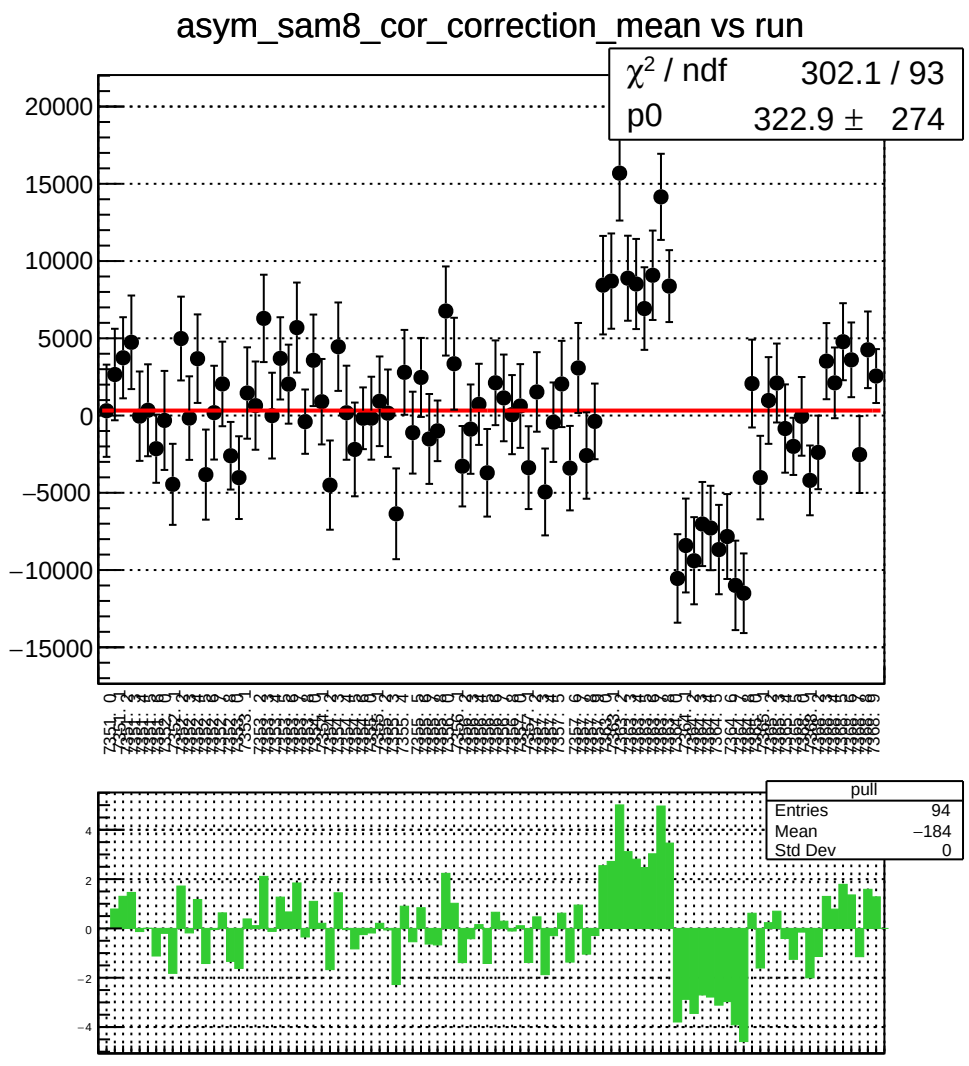

asym_sam8_reg_correction_mean vs run
χ² / ndf 302.1 / 93
p0 322.9 ± 274
pull
Entries 94
Mean −184
Std Dev 0
pull1D
Entries 94
Mean 0.01568
Std Dev 1.793

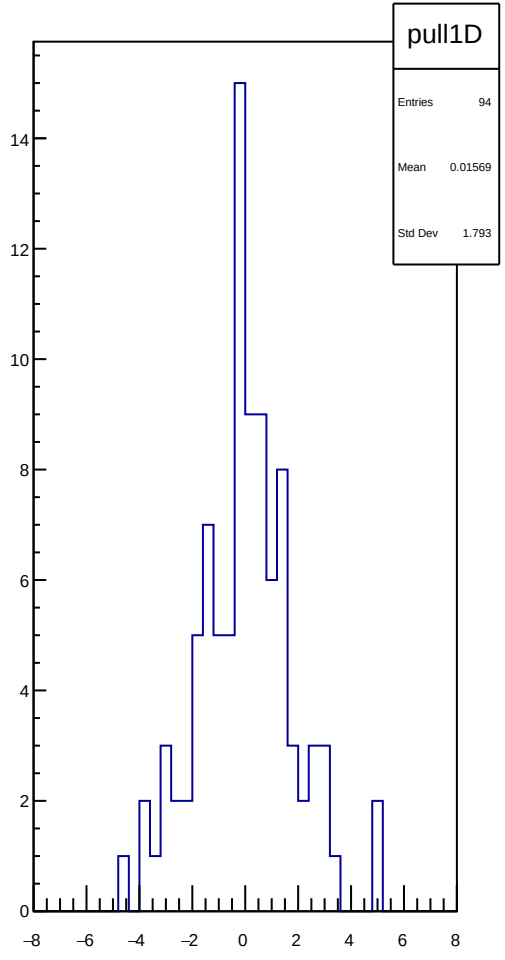

asym_sam8_reg_correction_rms vs run
χ² / ndf 8850 / 93
p0 260.7 ± 0.1938
300
280
260
240
220

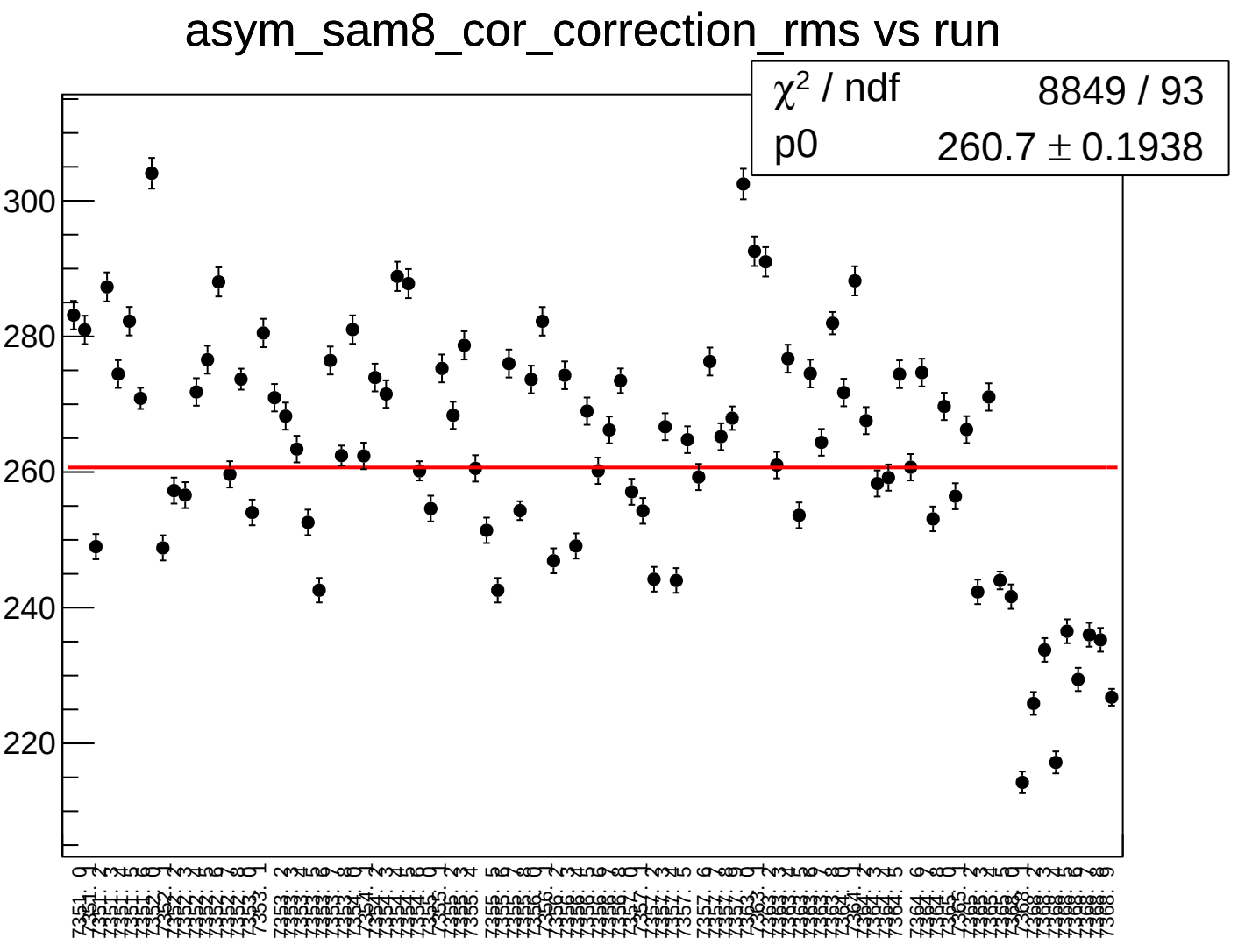

cor_asym_sam8_mean vs run
χ² / ndf 135.1 / 93
p0 135.4 ± 79.88
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 94
Mean 132.9
Std Dev 0
3
2
1
0
−1
−2
−3

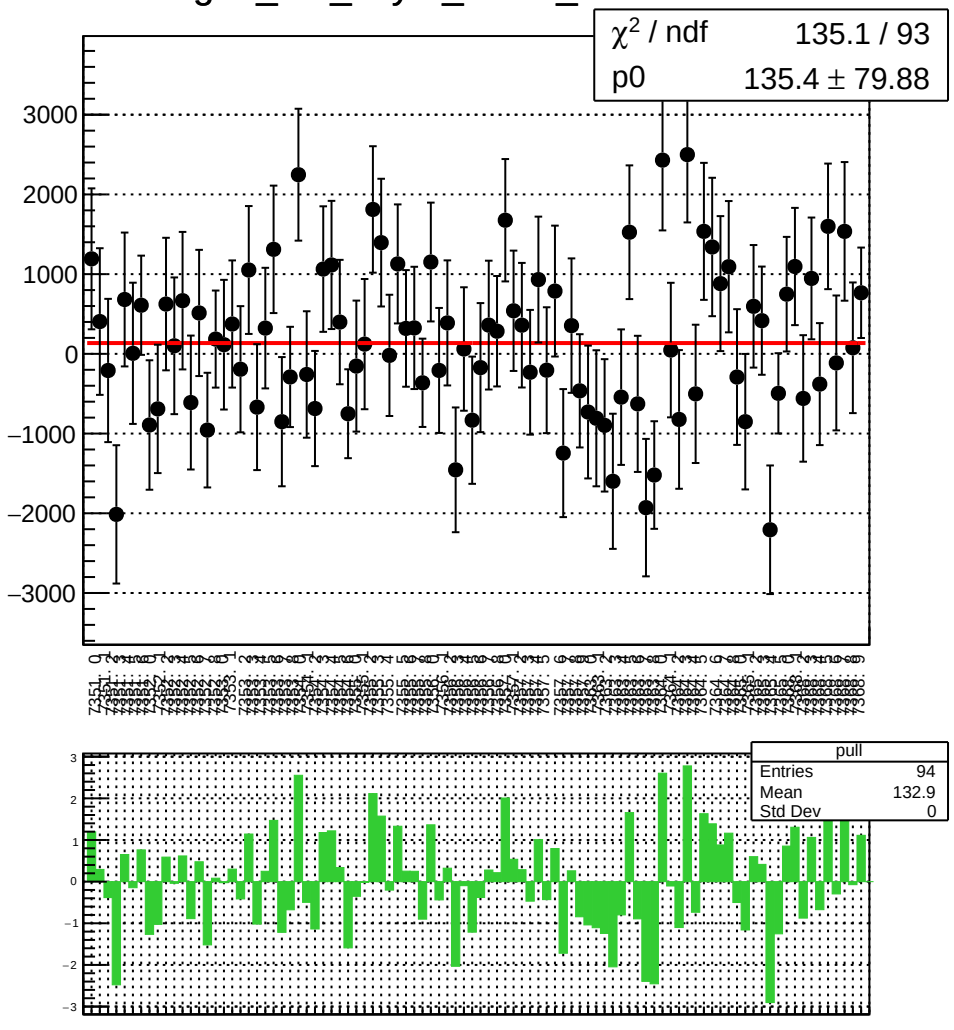

pull1D
Entries 94
Mean 0.01655
Std Dev 1.199
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

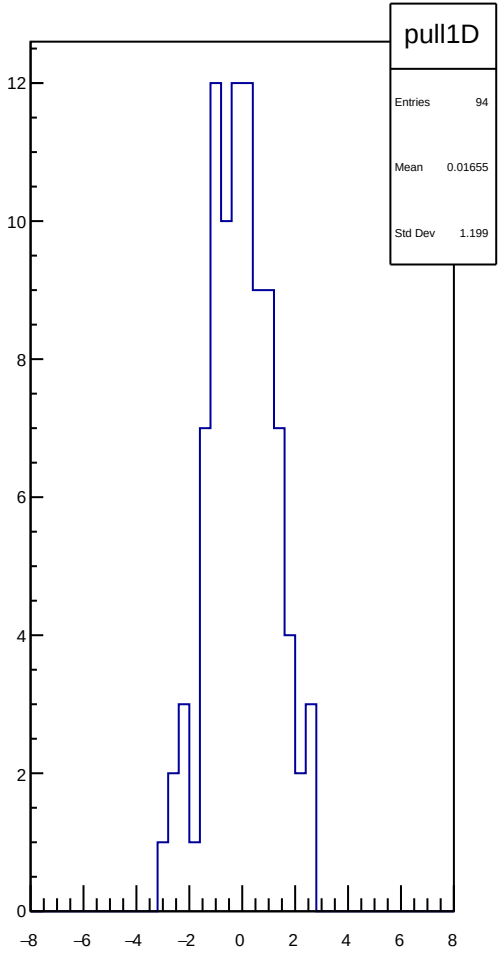

cor_asym_sam8_rms vs run
χ^2 / ndf 6256 / 93
p0 76.04 ± 0.05649
90
85
80
75
70
65

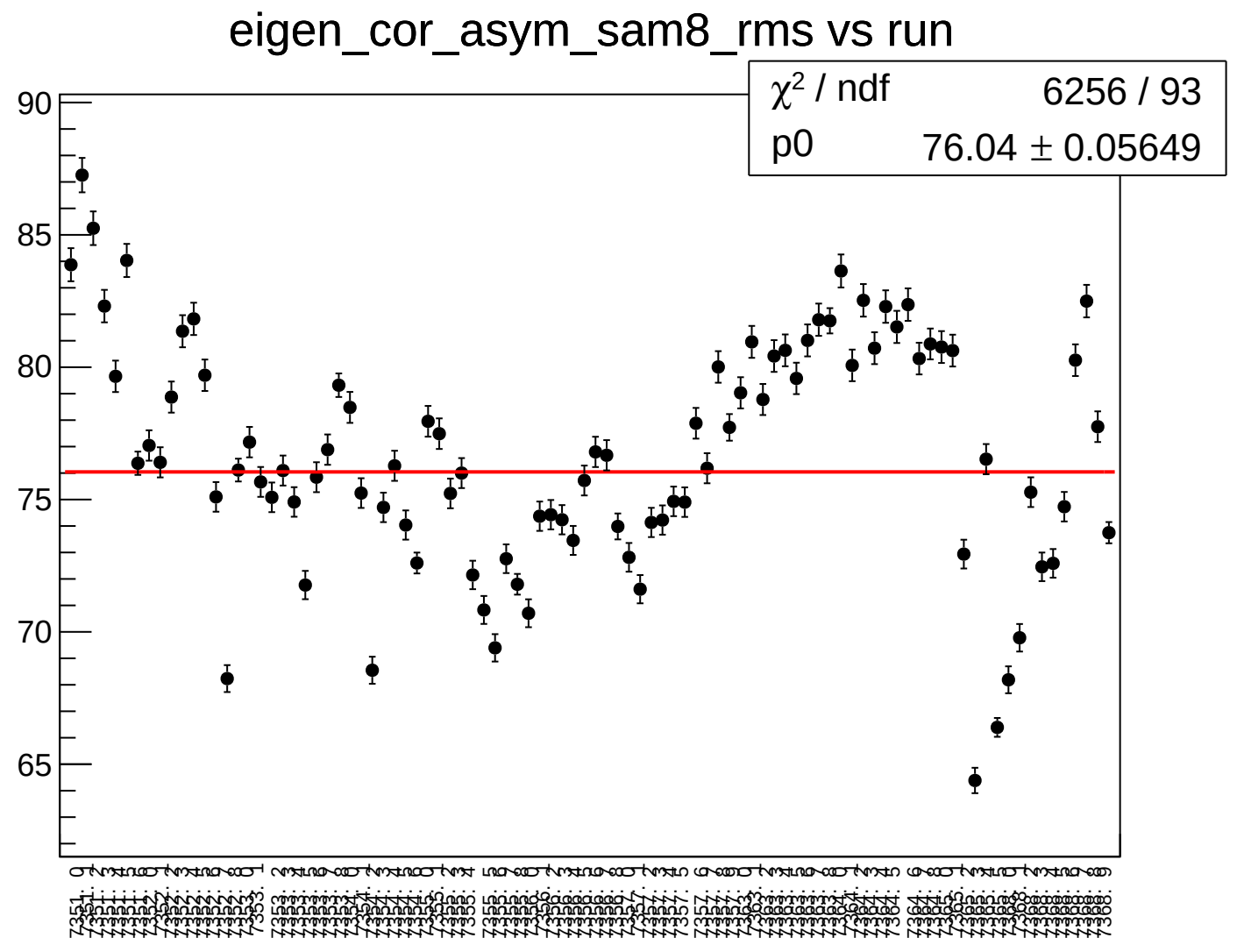

asym_sam8_cor_correction_mean vs run
χ² / ndf 302.1 / 93
p0 322.9 ± 274
pull
Entries 94
Mean −184
Std Dev 0

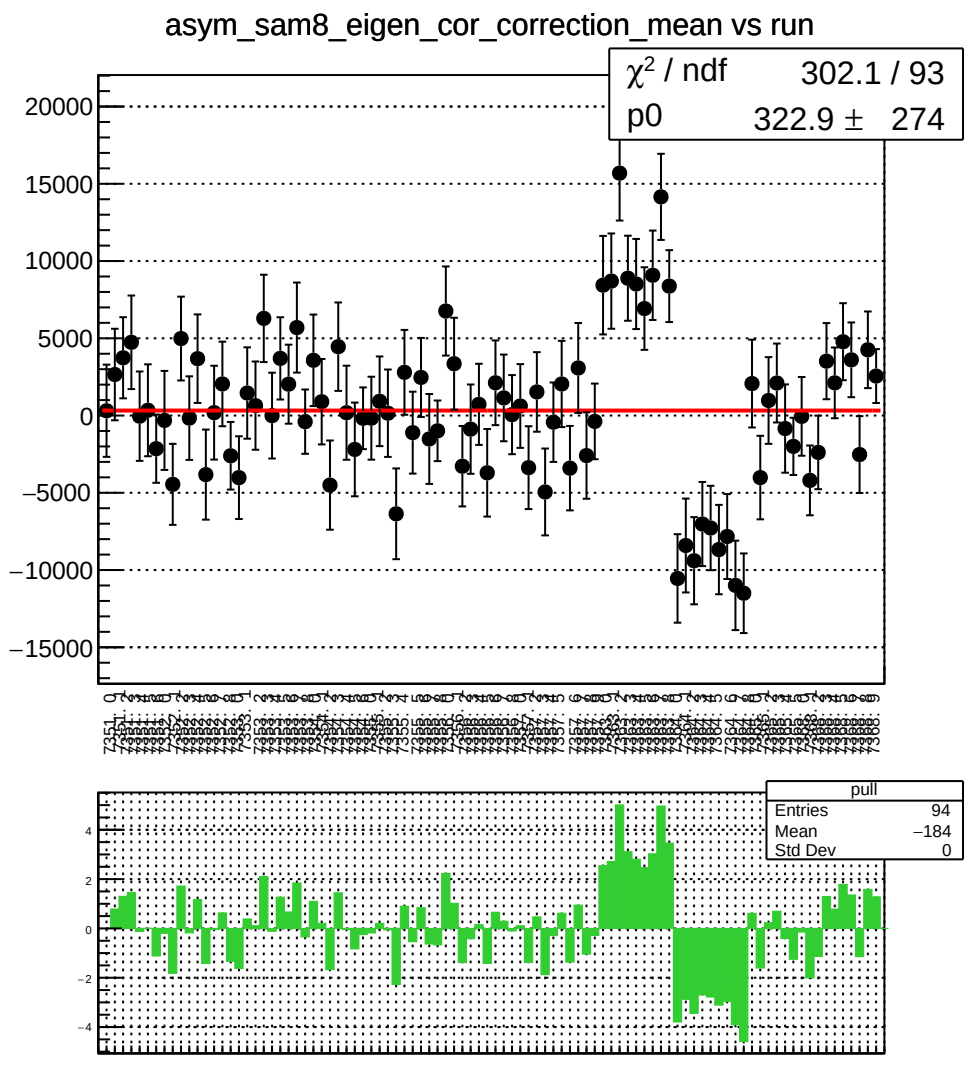

pull1D
Entries 94
Mean 0.01569
Std Dev 1.793

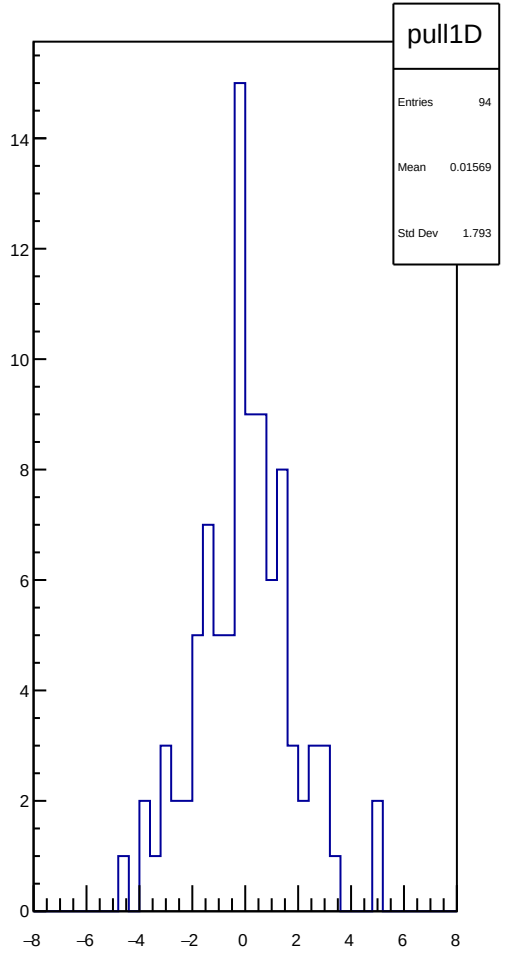

asym_sam8_cor_correction_rms vs run
χ² / ndf 8849 / 93
p0 260.7 ± 0.1938
300
280
260
240
220

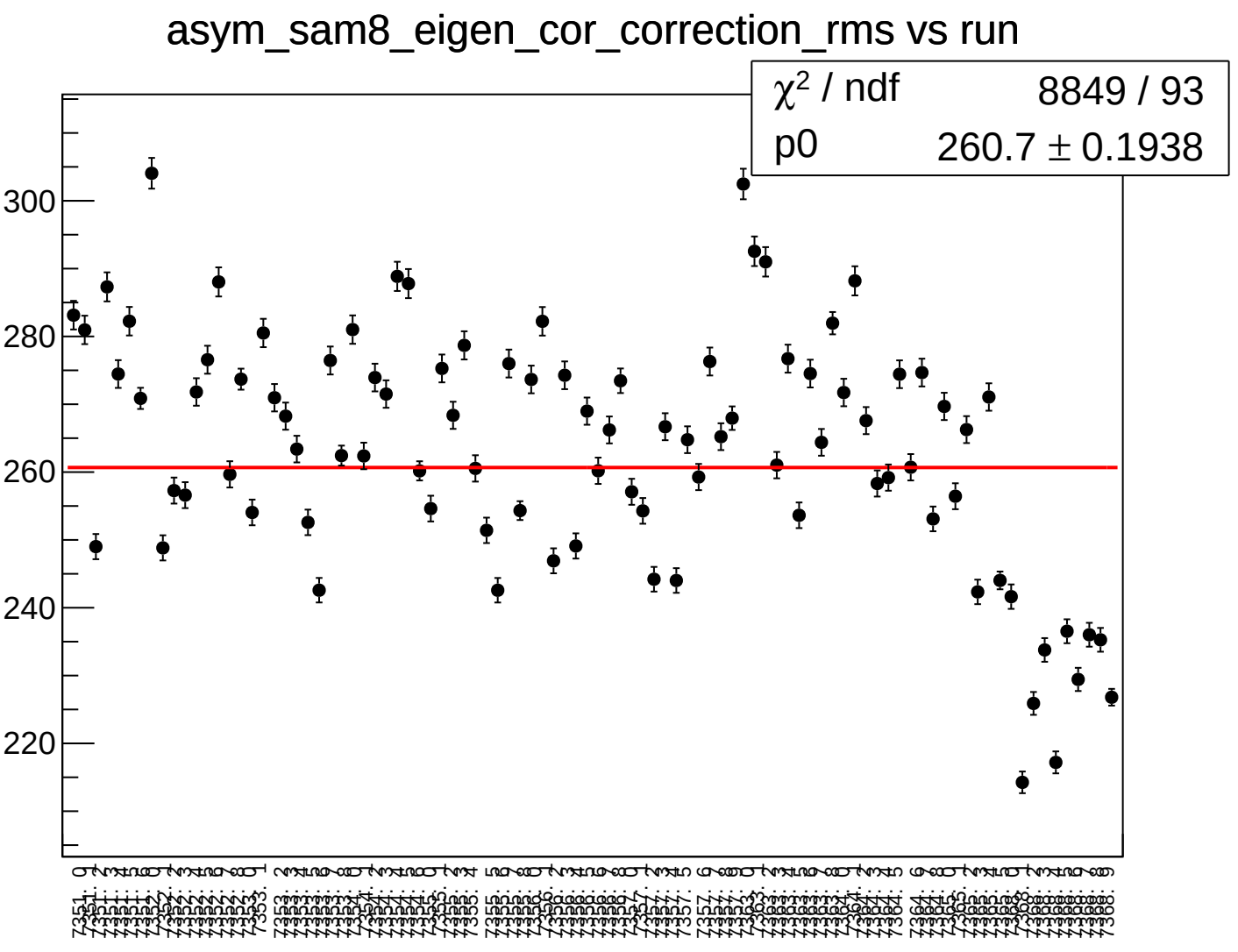

eigen_cor_asym_sam8_mean vs run
χ² / ndf 135.1 / 93
p0 135.4 ± 79.88
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 94
Mean 132.9
Std Dev 0
3
2
1
0
−1
−2
−3

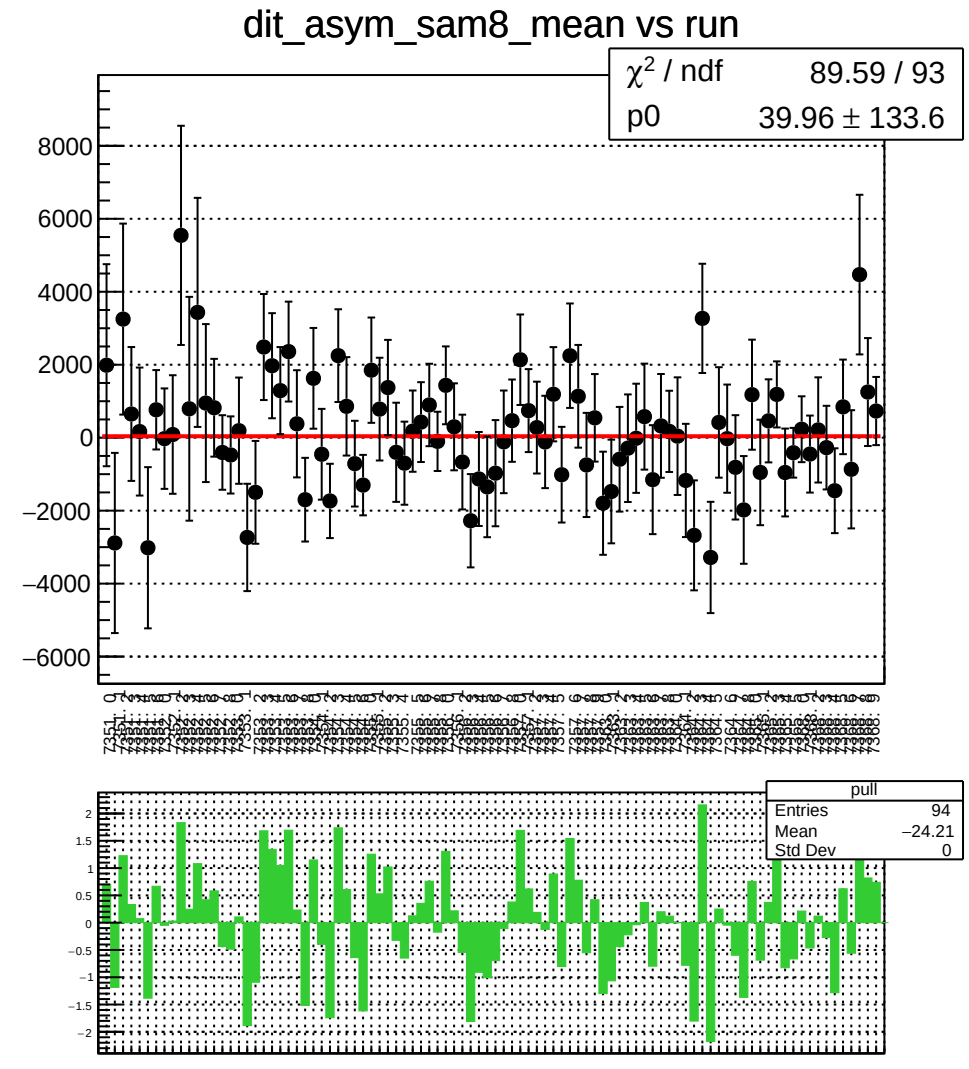

pull1D
Entries 94
Mean 0.01655
Std Dev 1.199
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

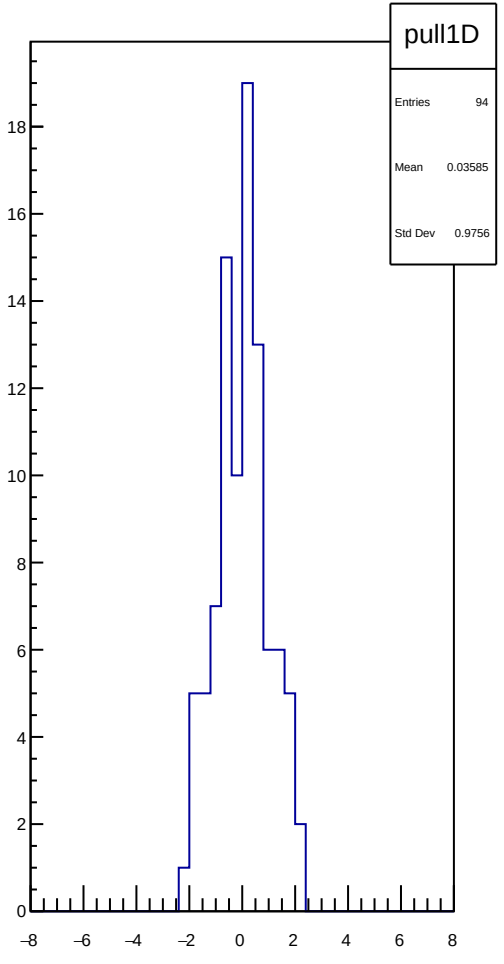

eigen_cor_asym_sam8_rms vs run
χ² / ndf 6256 / 93
p0 76.04 ± 0.05649
90
85
80
75
70
65

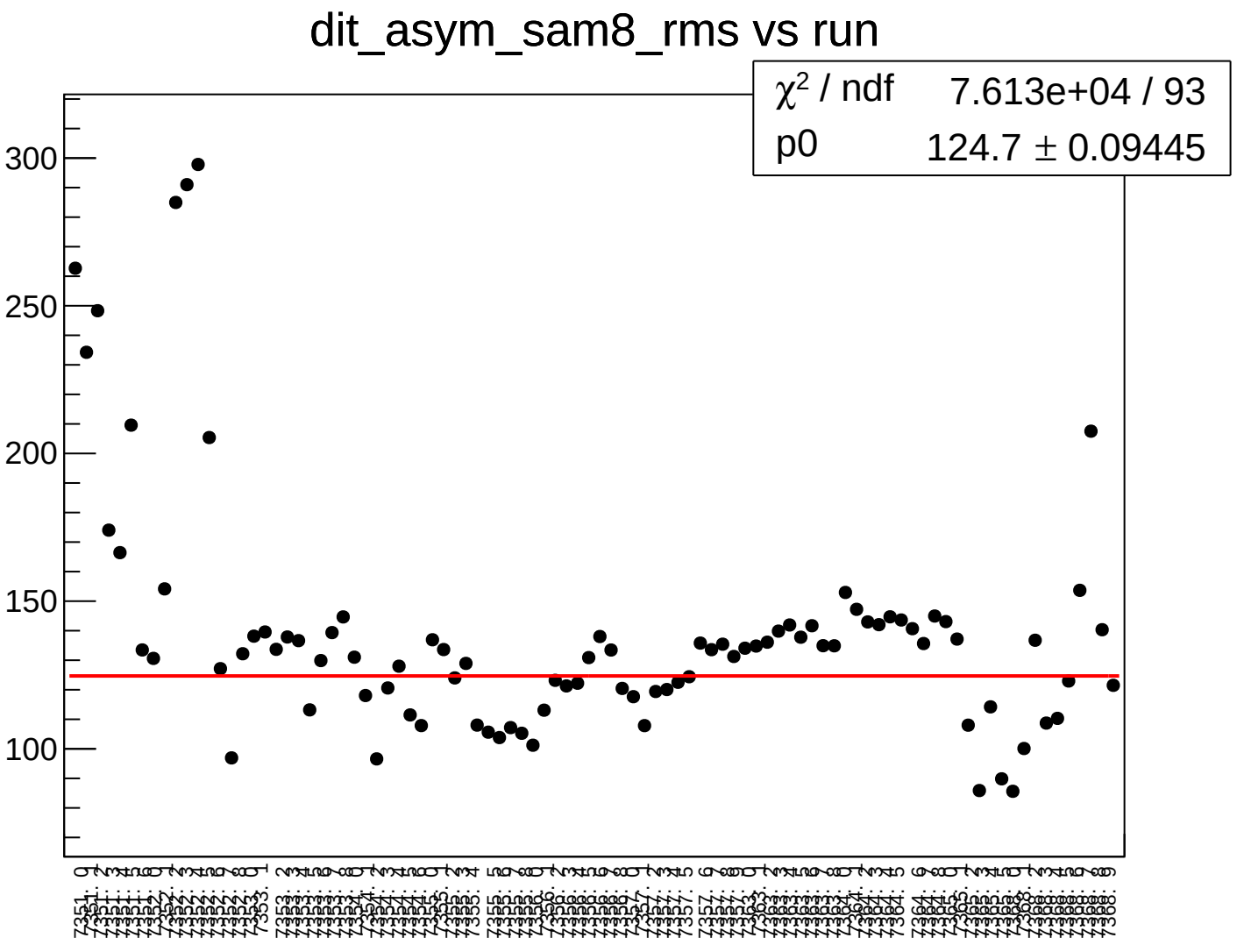

asym_sam8_eigen_cor_correction_mean vs run
χ² / ndf 302.1 / 93
p0 322.9 ± 274
pull
Entries 94
Mean −184
Std Dev 0

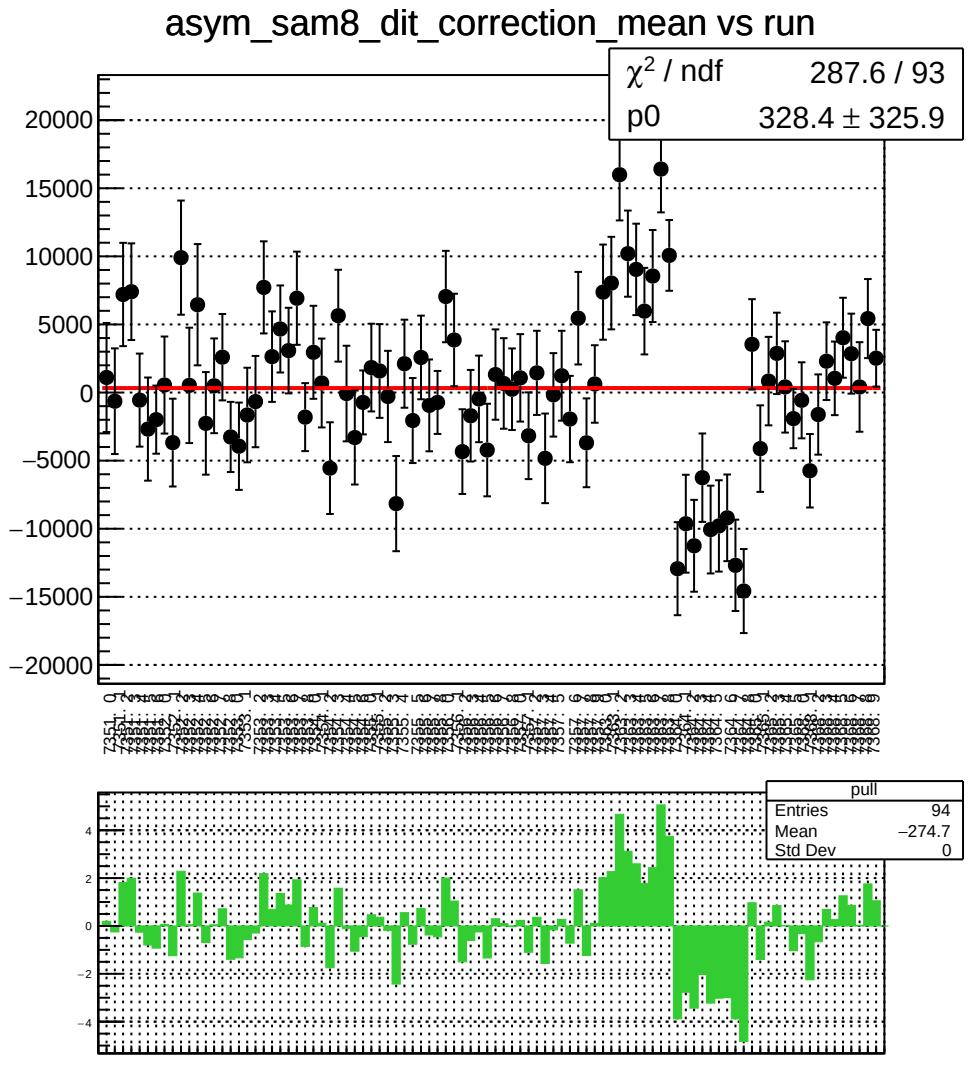

pull1D
Entries 94
Mean 0.01569
Std Dev 1.793

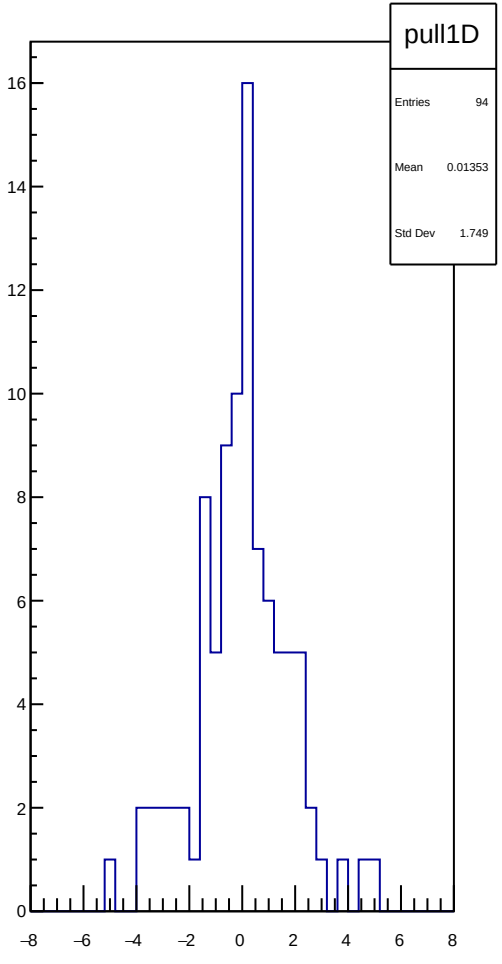

asym_sam8_eigen_cor_correction_rms vs run
χ² / ndf 8849 / 93
p0 260.7 ± 0.1938
300
280
260
240
220

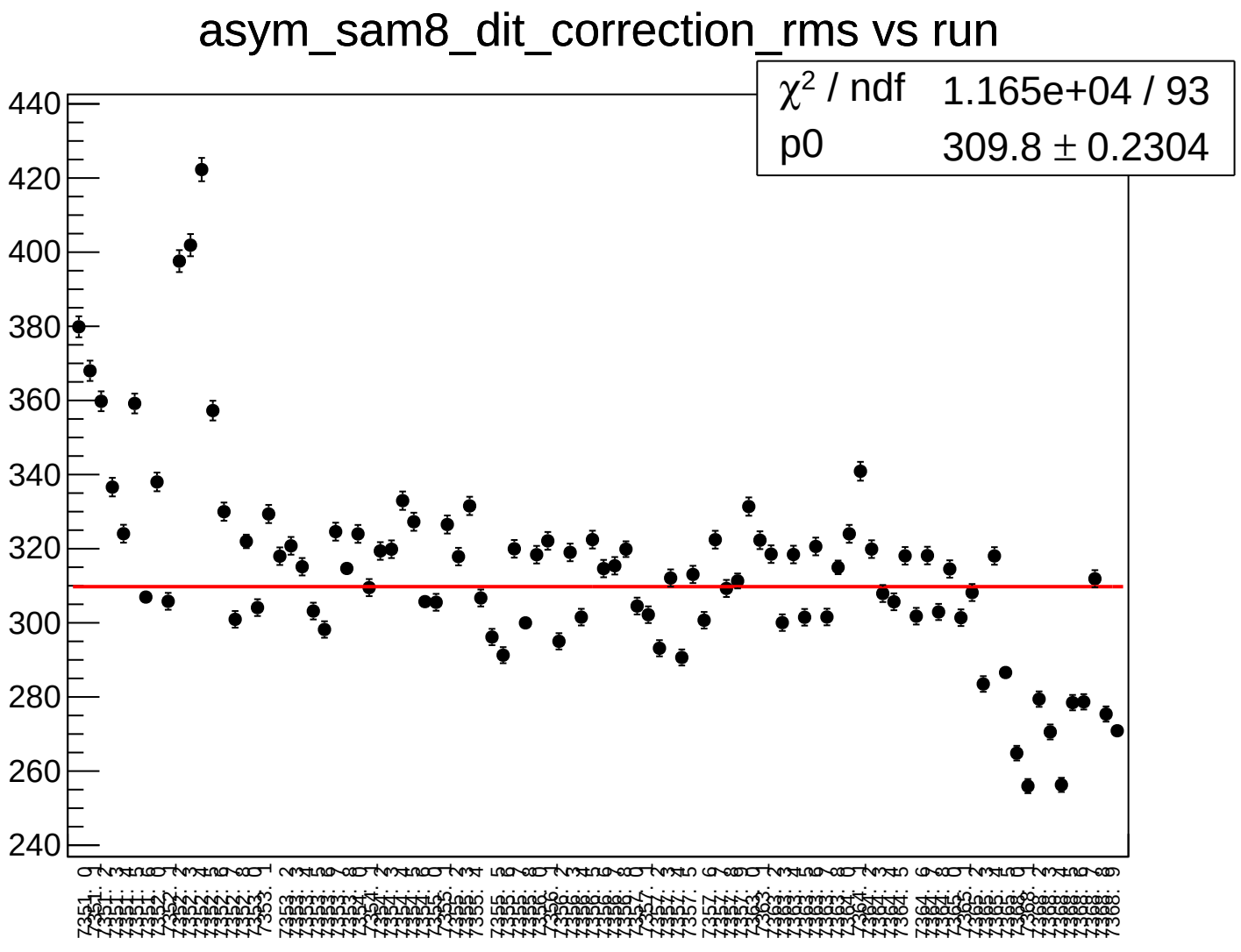

dit_asym_sam8_mean vs run
χ^2 / ndf 89.59 / 93
p0 39.96 ± 133.6
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean −24.21
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

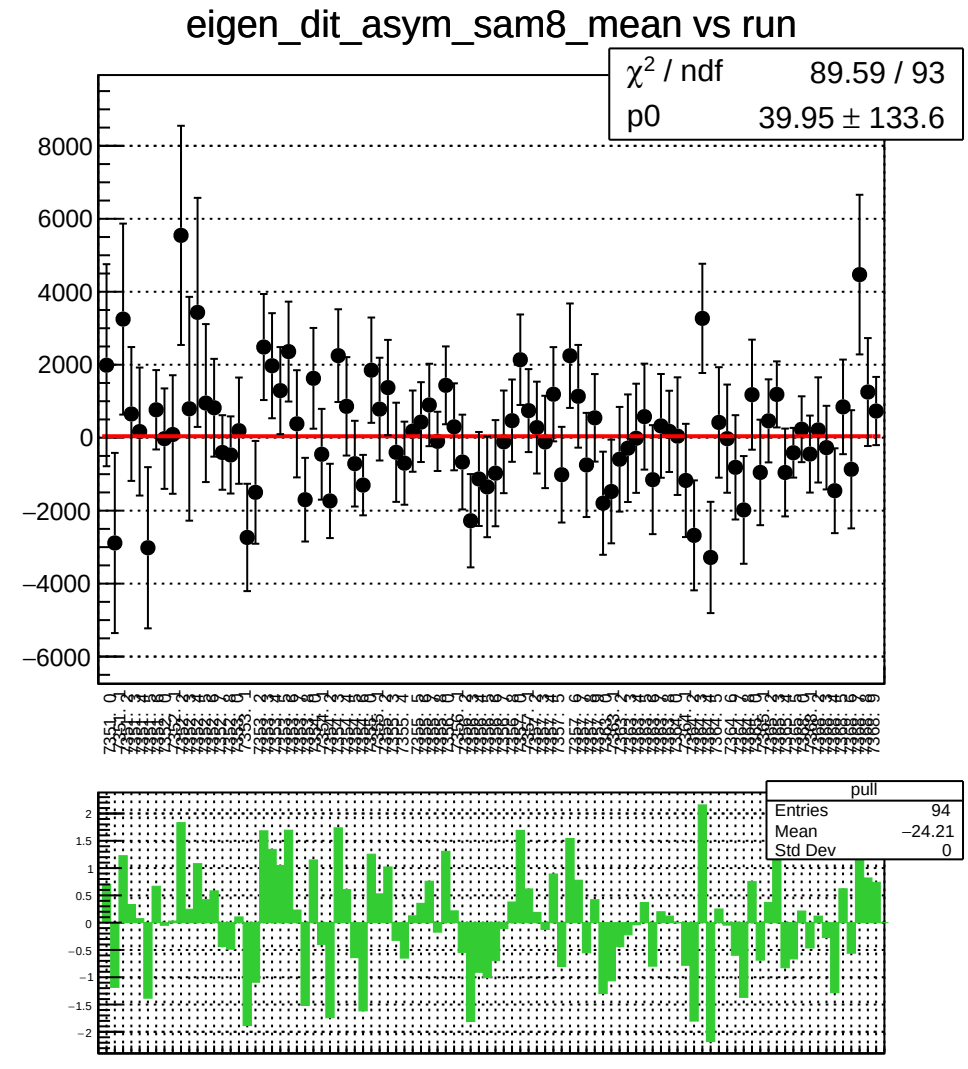

pull1D
Entries 94
Mean 0.03585
Std Dev 0.9756
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

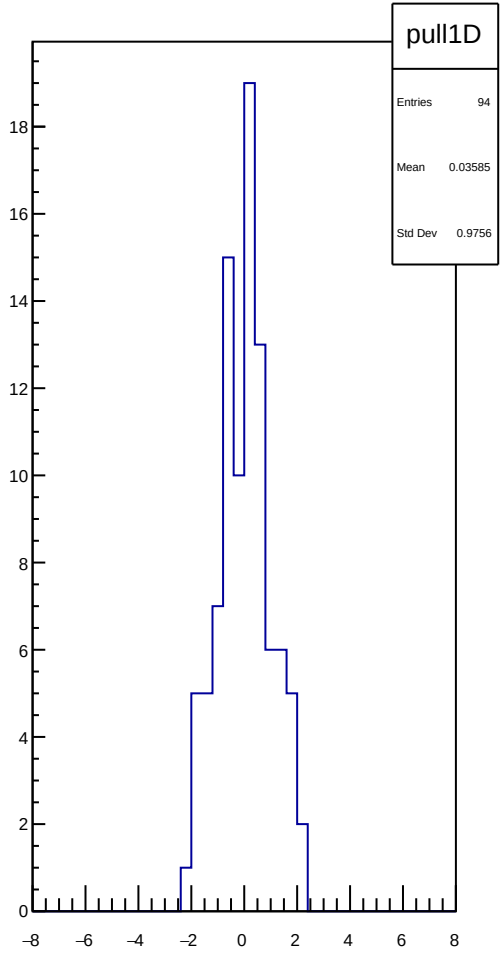

dit_asym_sam8_rms vs run
χ² / ndf 7.613e+04 / 93
p0 124.7 ± 0.09445
300
250
200
150
100

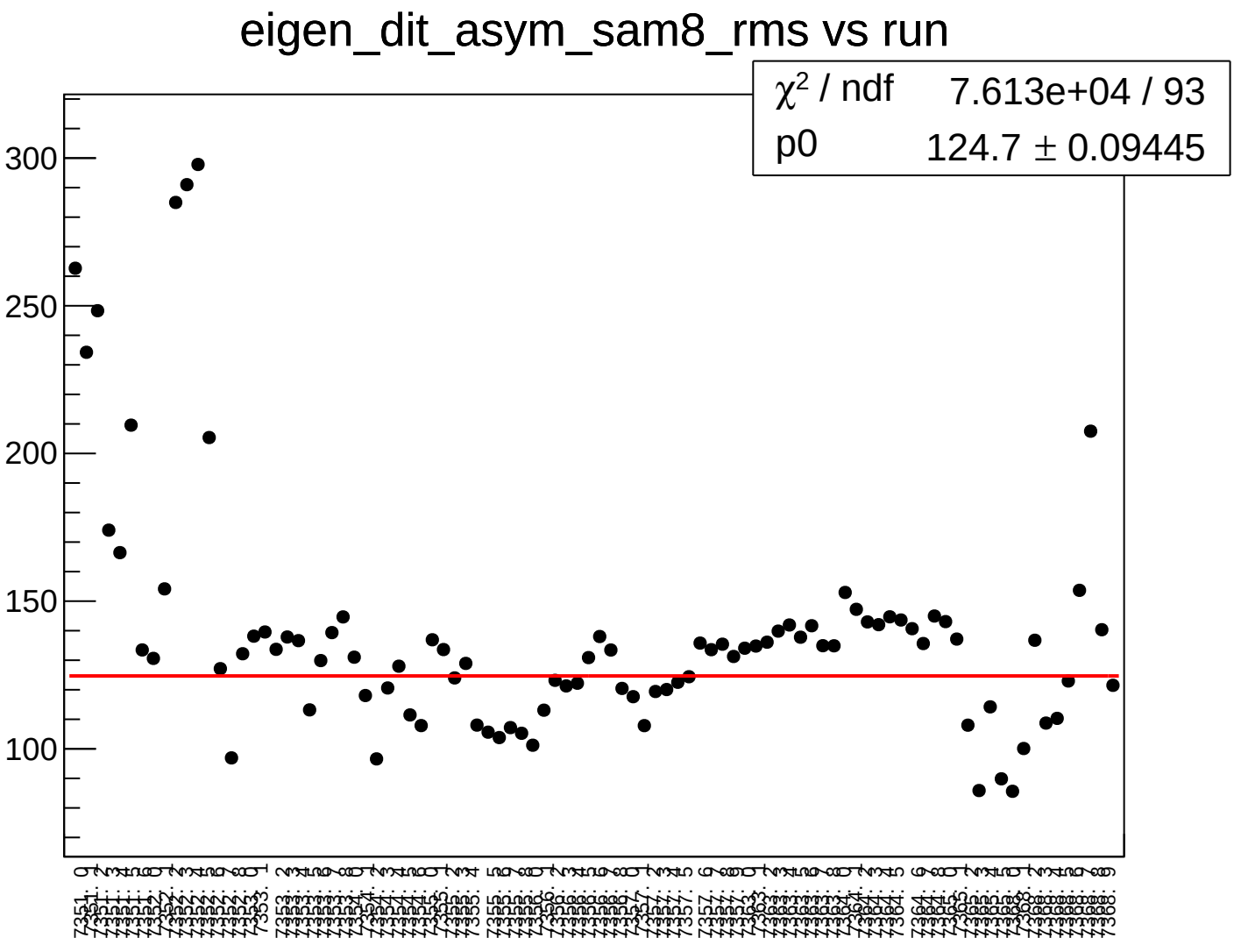

asym_sam8_dit_correction_mean vs run
χ² / ndf 287.6 / 93
p0 328.4 ± 325.9
pull
Entries 94
Mean −274.7
Std Dev 0

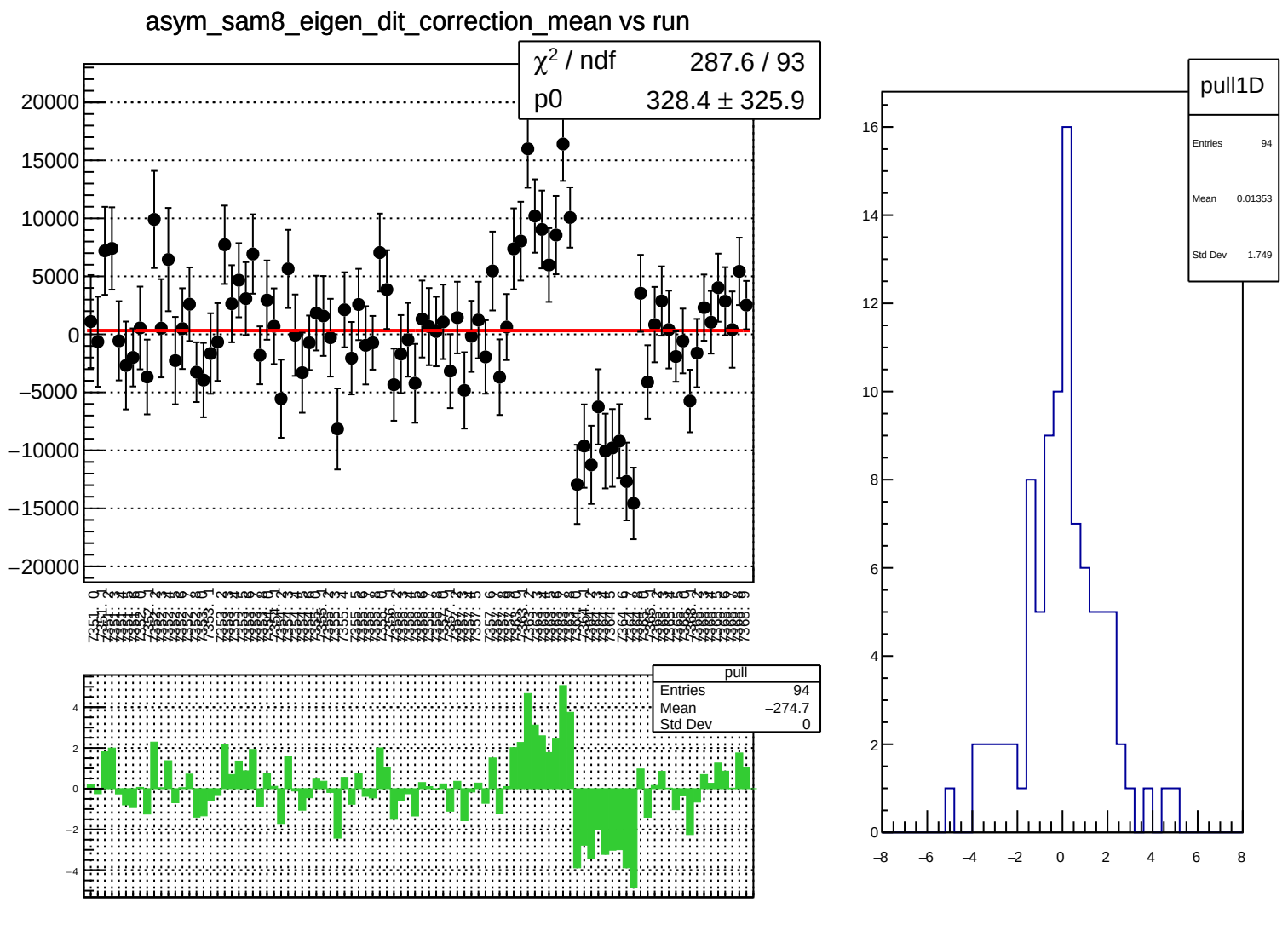

pull1D
Entries 94
Mean 0.01353
Std Dev 1.749

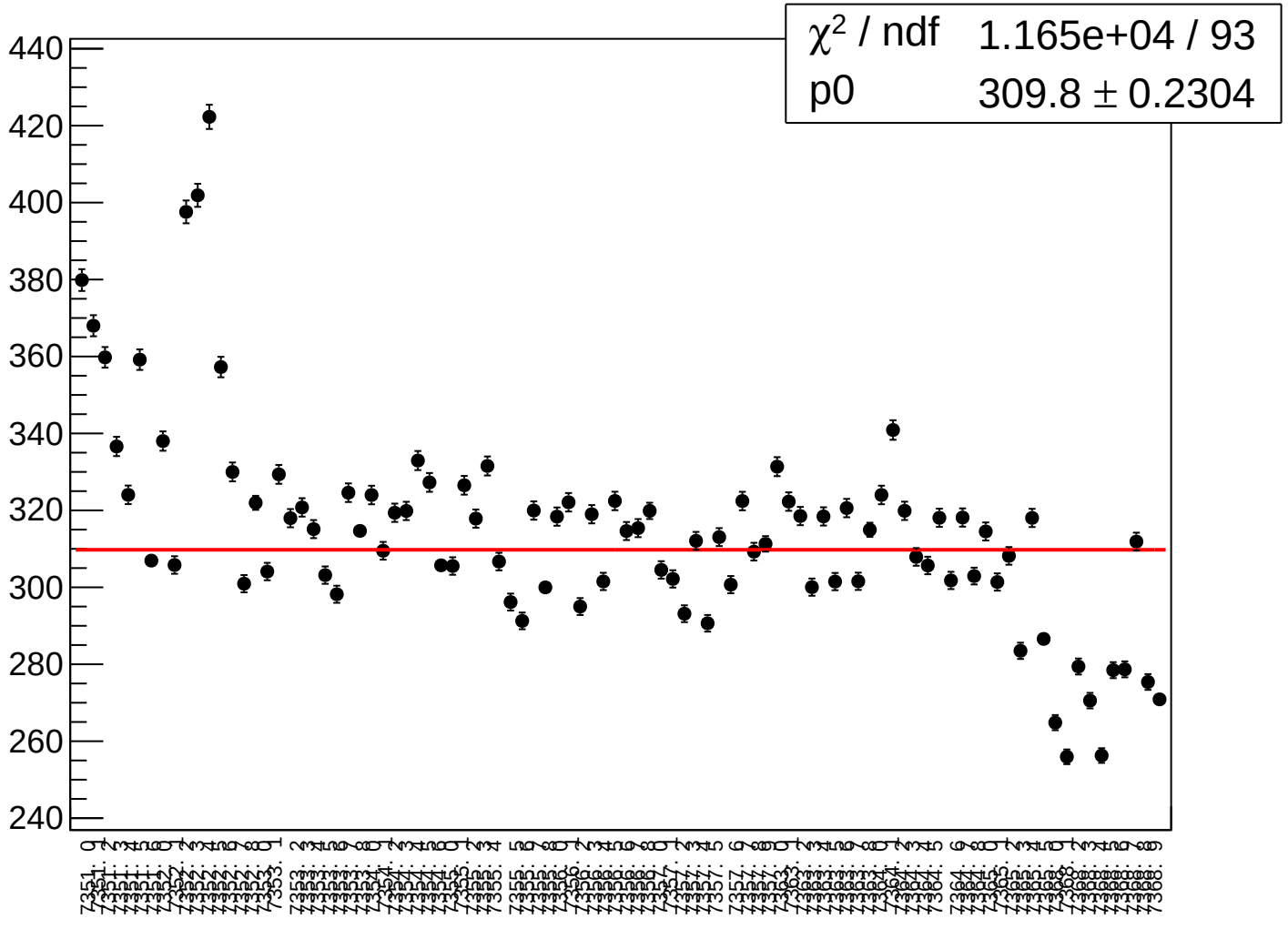

asym_sam8_dit_correction_rms vs run
χ^2 / ndf 1.165e+04 / 93
p0 309.8 ± 0.2304
440
420
400
380
360
340
320
300
280
260
240

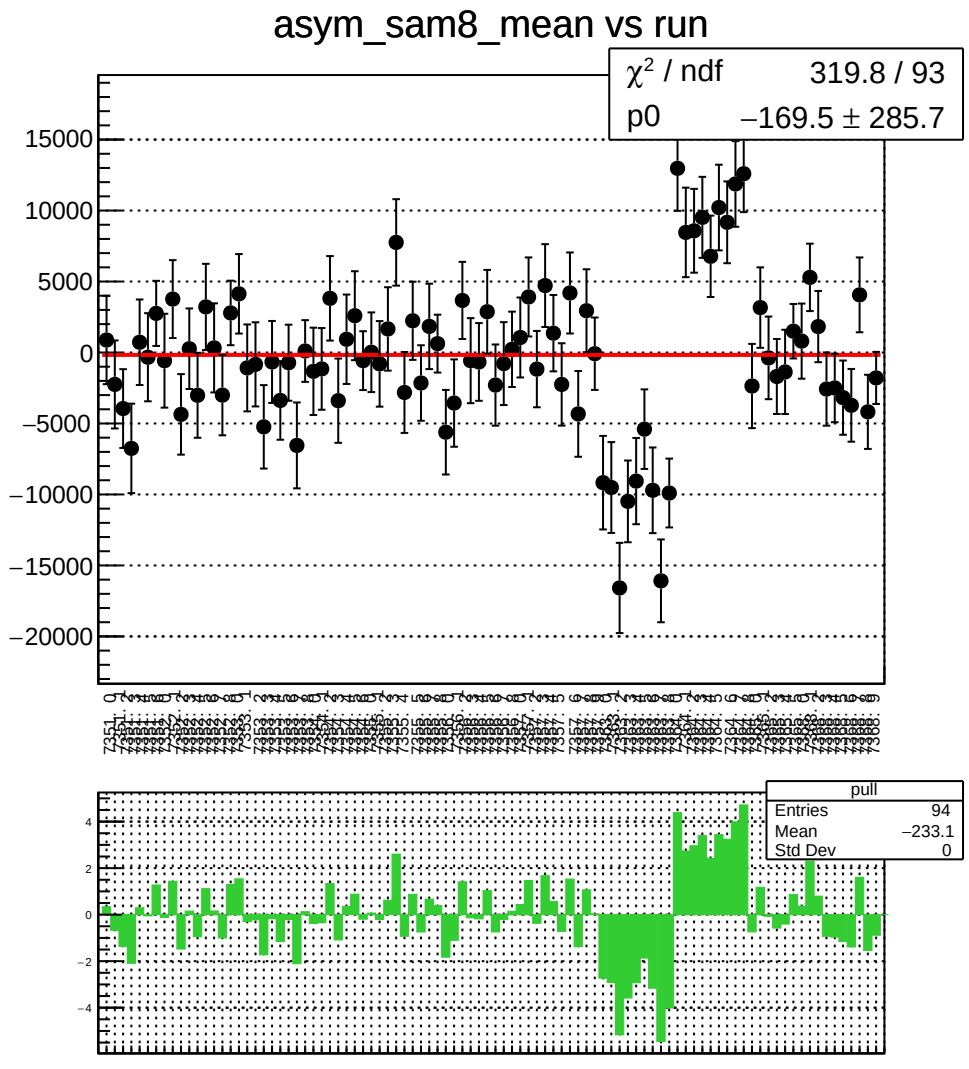

eigen_dit_asym_sam8_mean vs run
χ² / ndf 89.59 / 93
p0 39.95 ± 133.6
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean −24.21
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

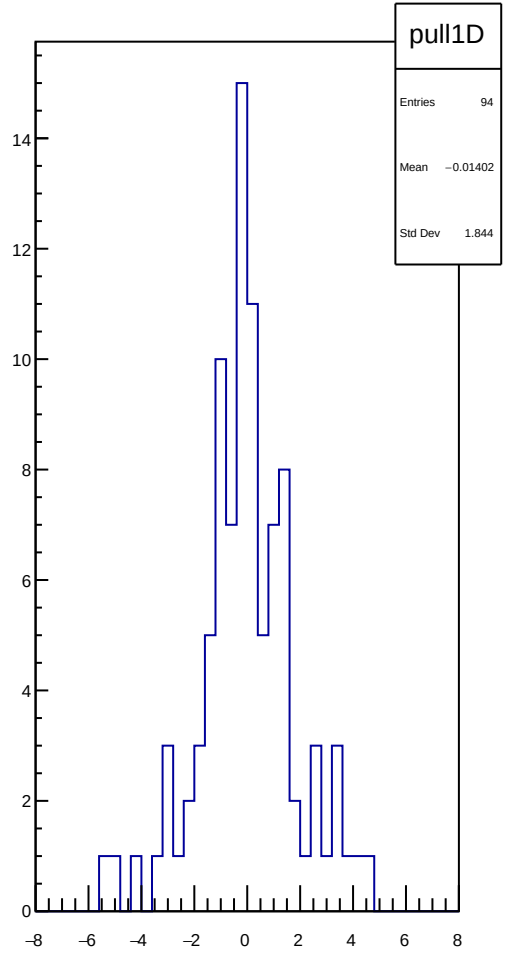

pull1D
Entries 94
Mean 0.03585
Std Dev 0.9756
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

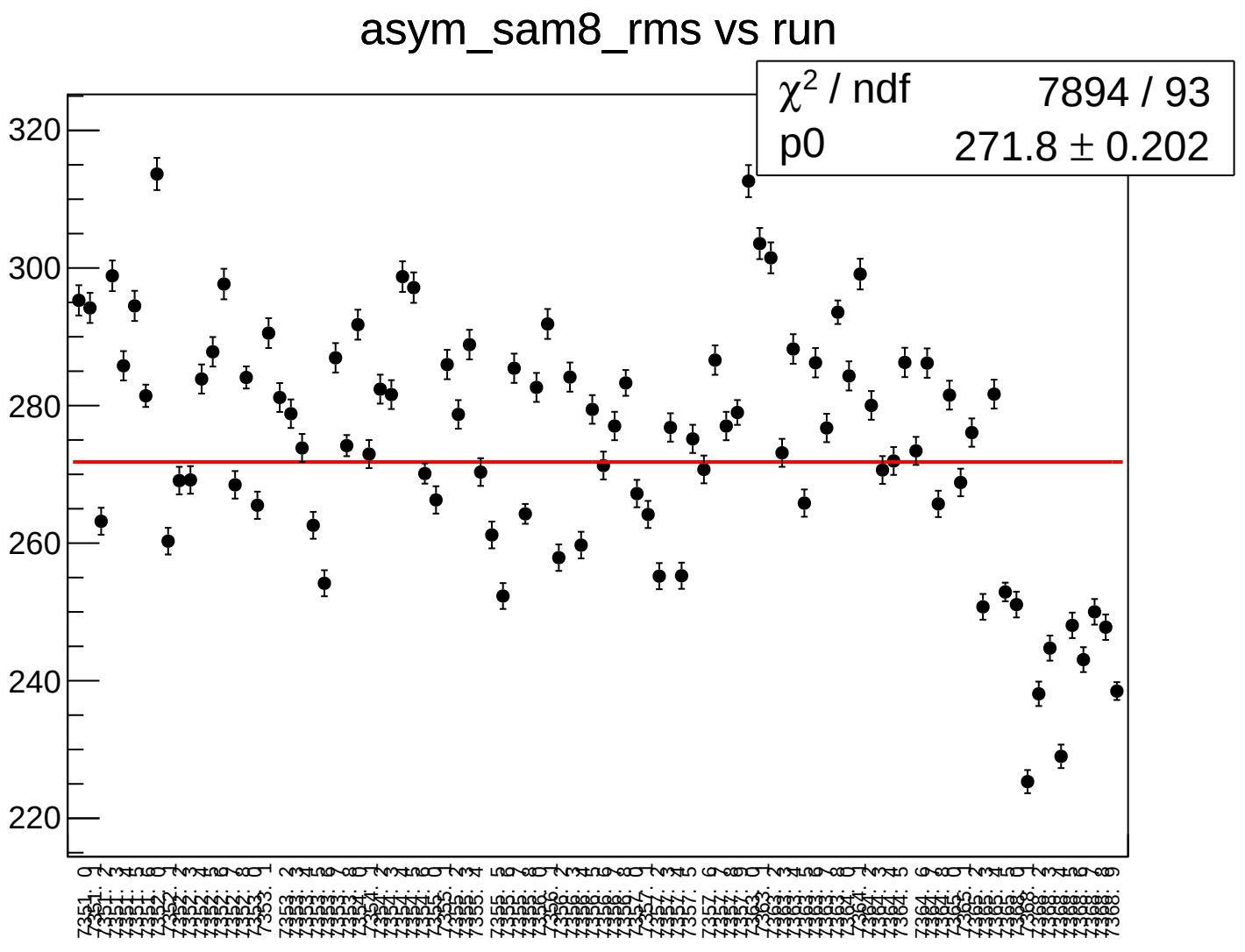

eigen_dit_asym_sam8_rms vs run
χ^2 / ndf 7.613e+04 / 93
p0 124.7 ± 0.09445
300
250
200
150
100

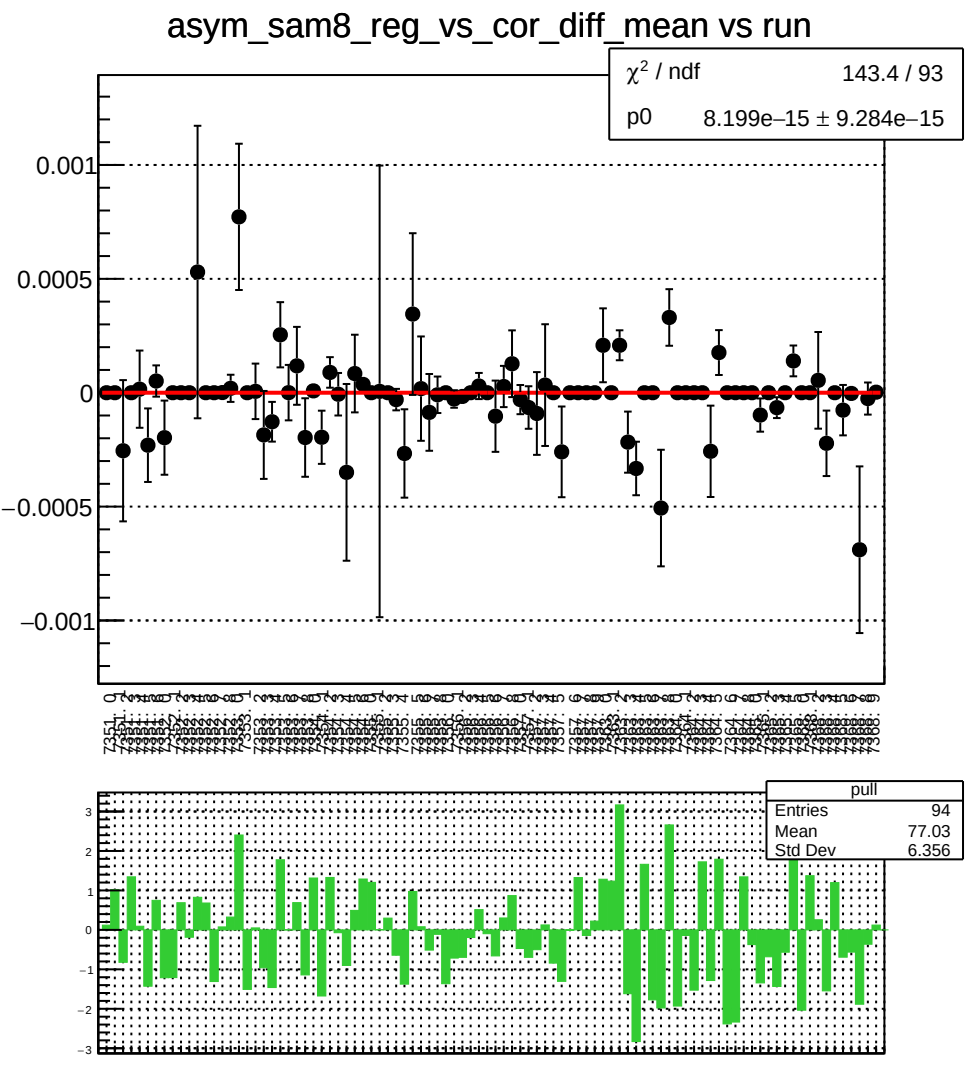

asym_sam8_eigen_dit_correction_mean vs run
χ² / ndf 287.6 / 93
p0 328.4 ± 325.9
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 94
Mean −274.7
Std Dev 0
4
2
0
−2
−4
pull1D
Entries 94
Mean 0.01353
Std Dev 1.749
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

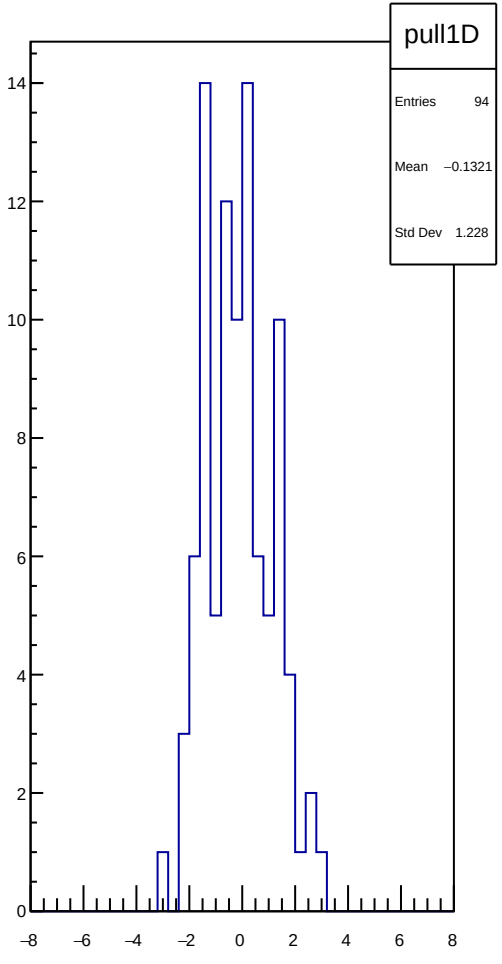

asym_sam8_eigen_dit_correction_rms vs run
χ² / ndf 1.165e+04 / 93
p0 309.8 ± 0.2304
440
420
400
380
360
340
320
300
280
260
240

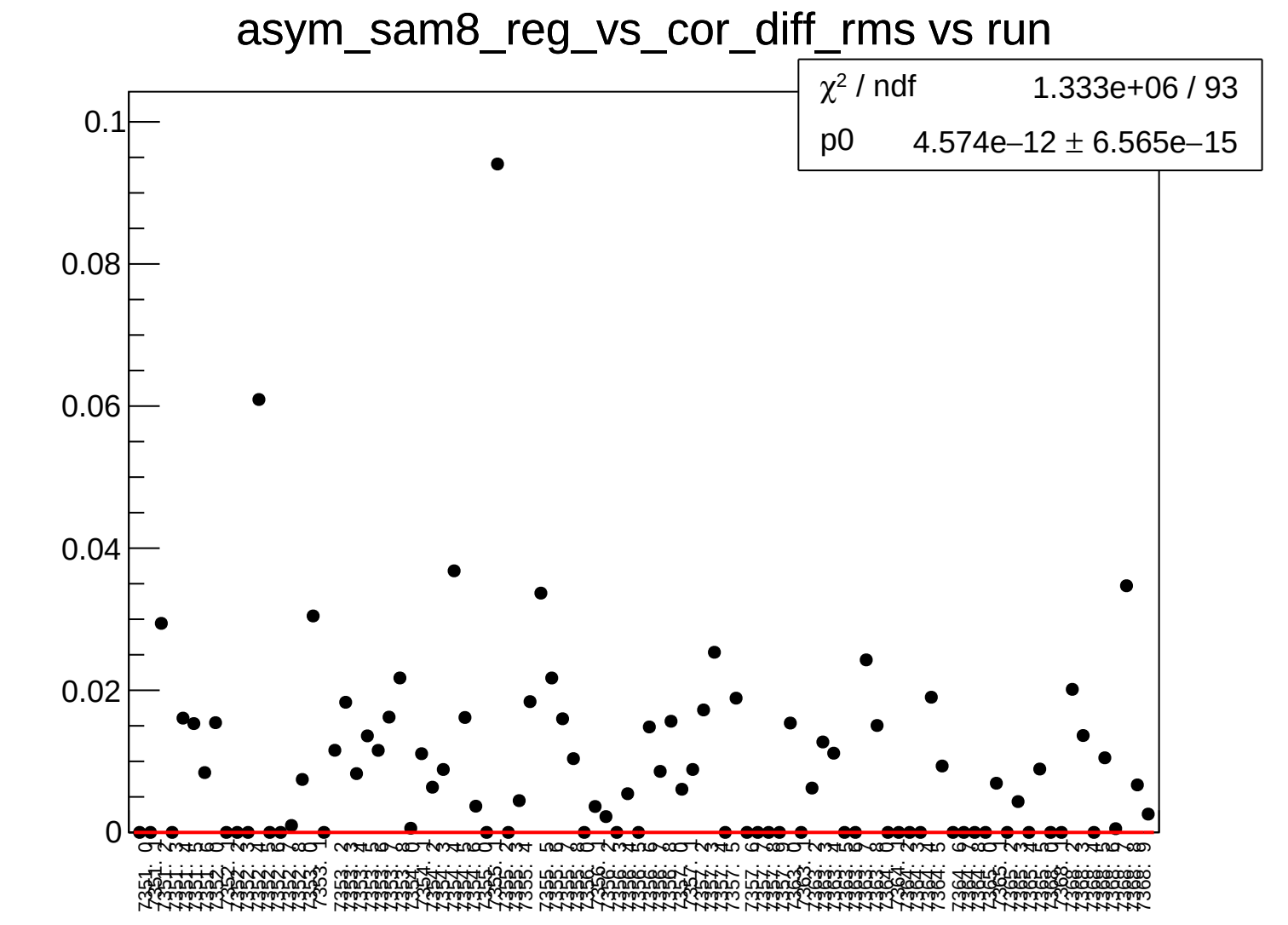

asym_sam8_mean vs run
χ² / ndf 319.8 / 93
p0 −169.5 ± 285.7
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 94
Mean −233.1
Std Dev 0
4
2
0
−2
−4

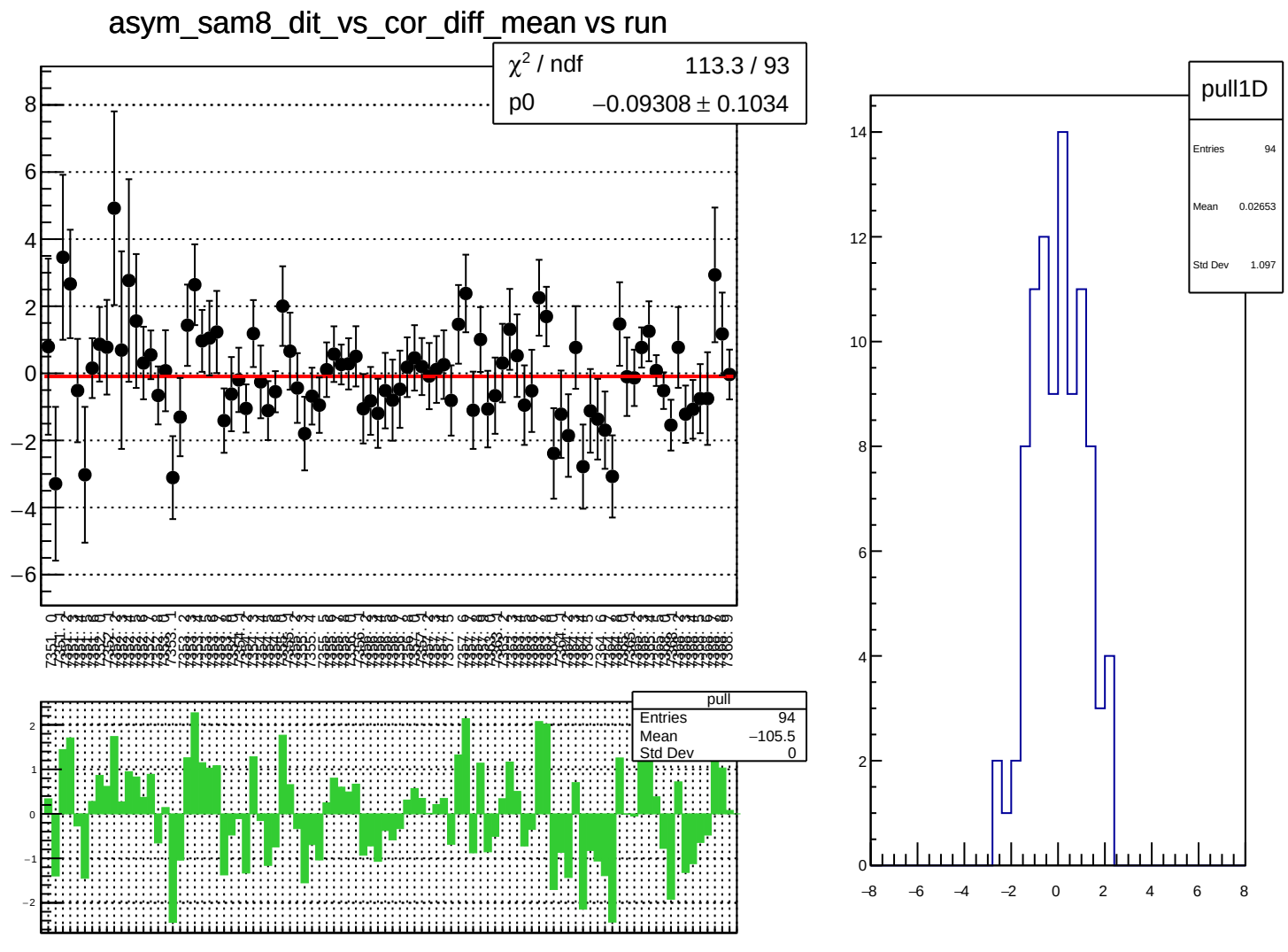

pull1D
Entries 94
Mean −0.01402
Std Dev 1.844
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

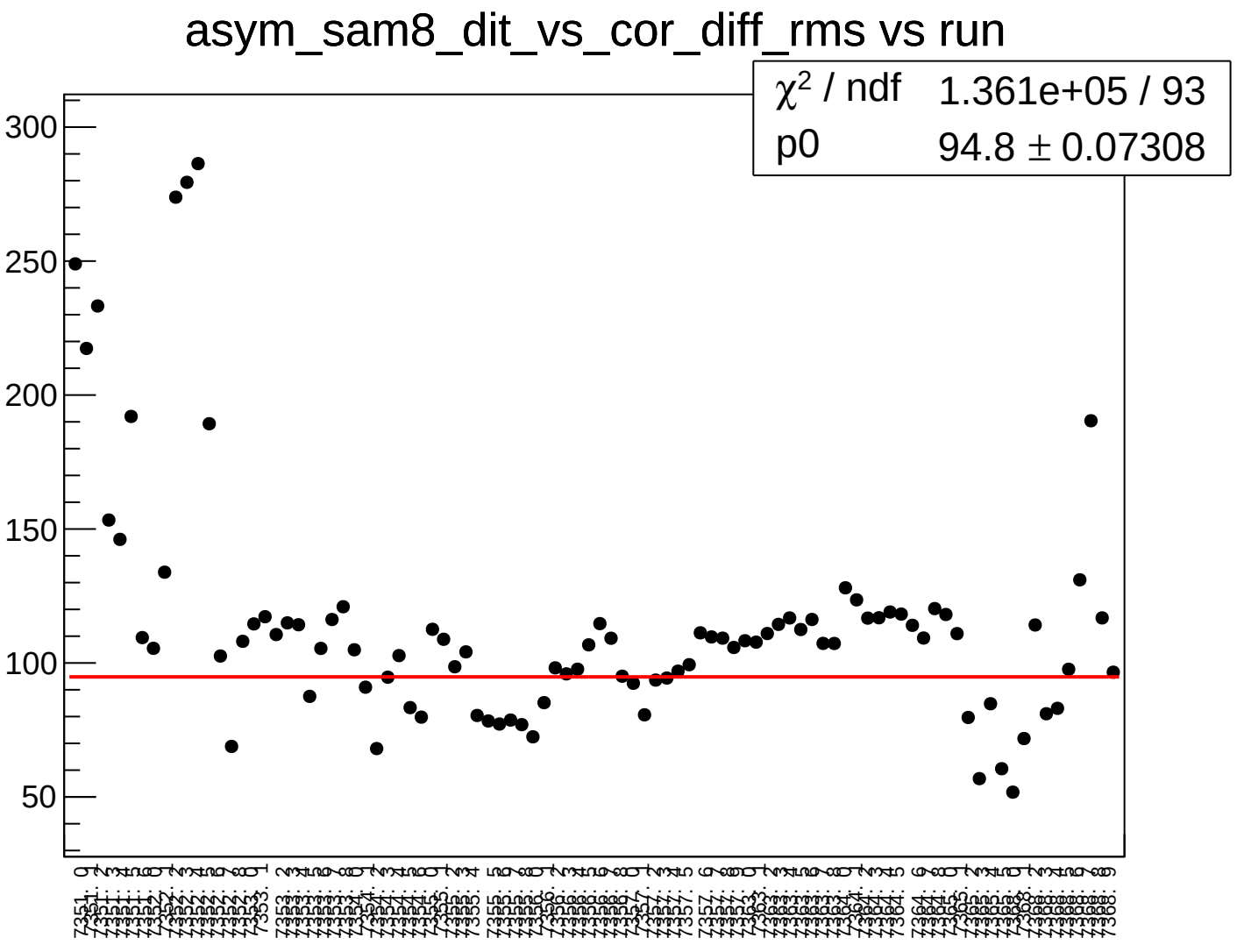

asym_sam8_rms vs run
χ^2 / ndf 7894 / 93
p0 271.8 ± 0.202
320
300
280
260
240
220

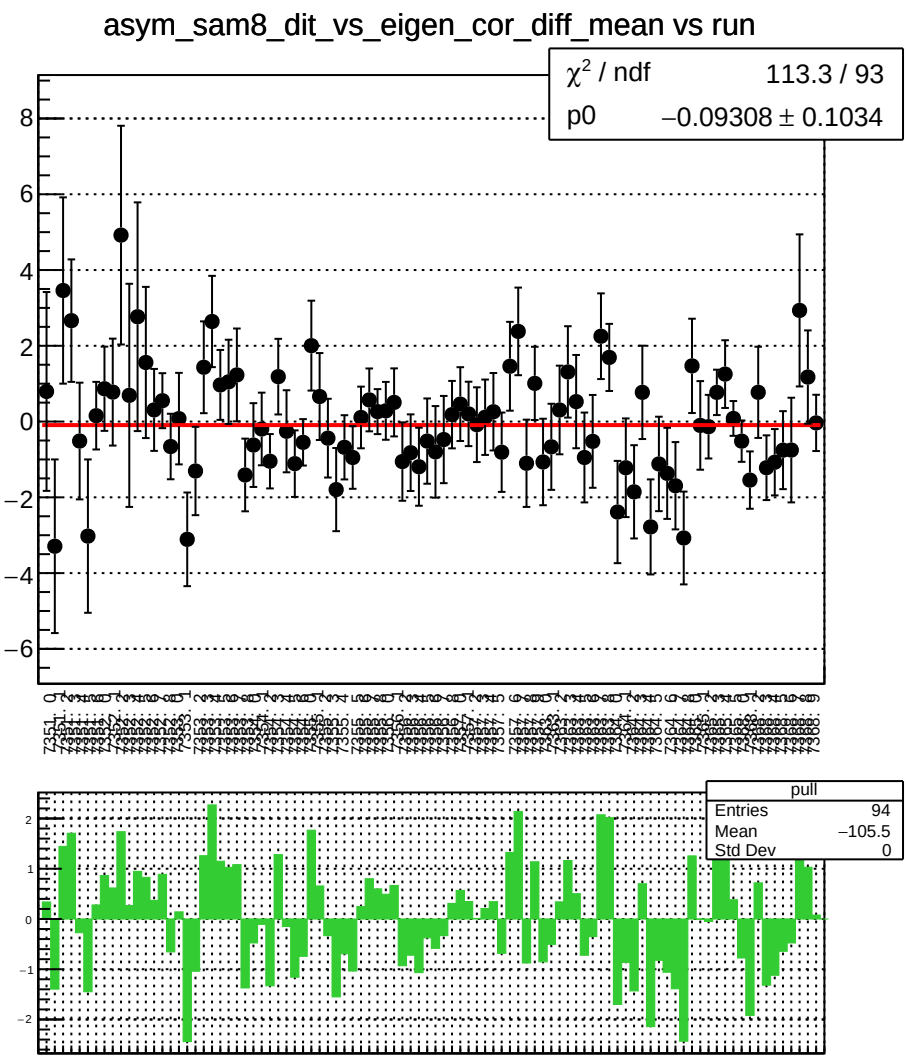

asym_sam8_reg_vs_cor_diff_mean vs run
χ² / ndf 143.4 / 93
p0 8.199e−15 ± 9.284e−15
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 94
Mean 77.03
Std Dev 6.356
3
2
1
0
−1
−2
−3

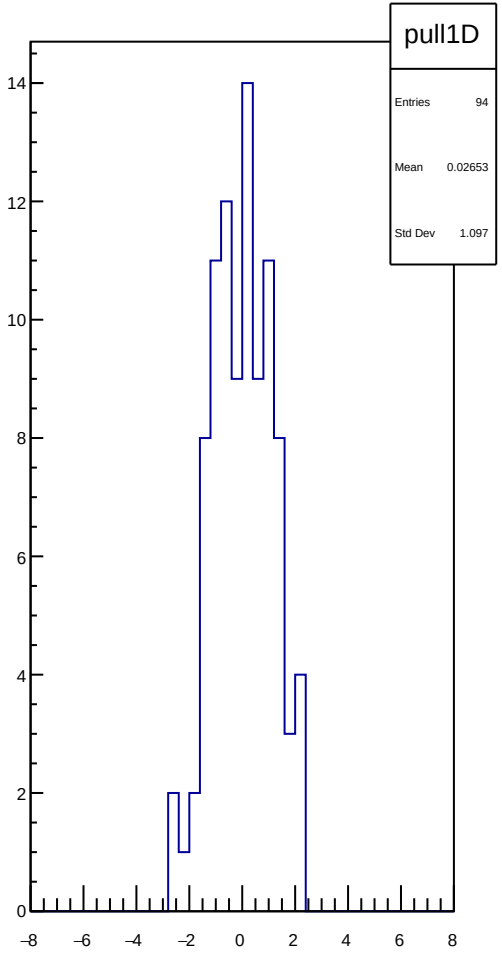

pull1D
Entries 94
Mean −0.1321
Std Dev 1.228
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

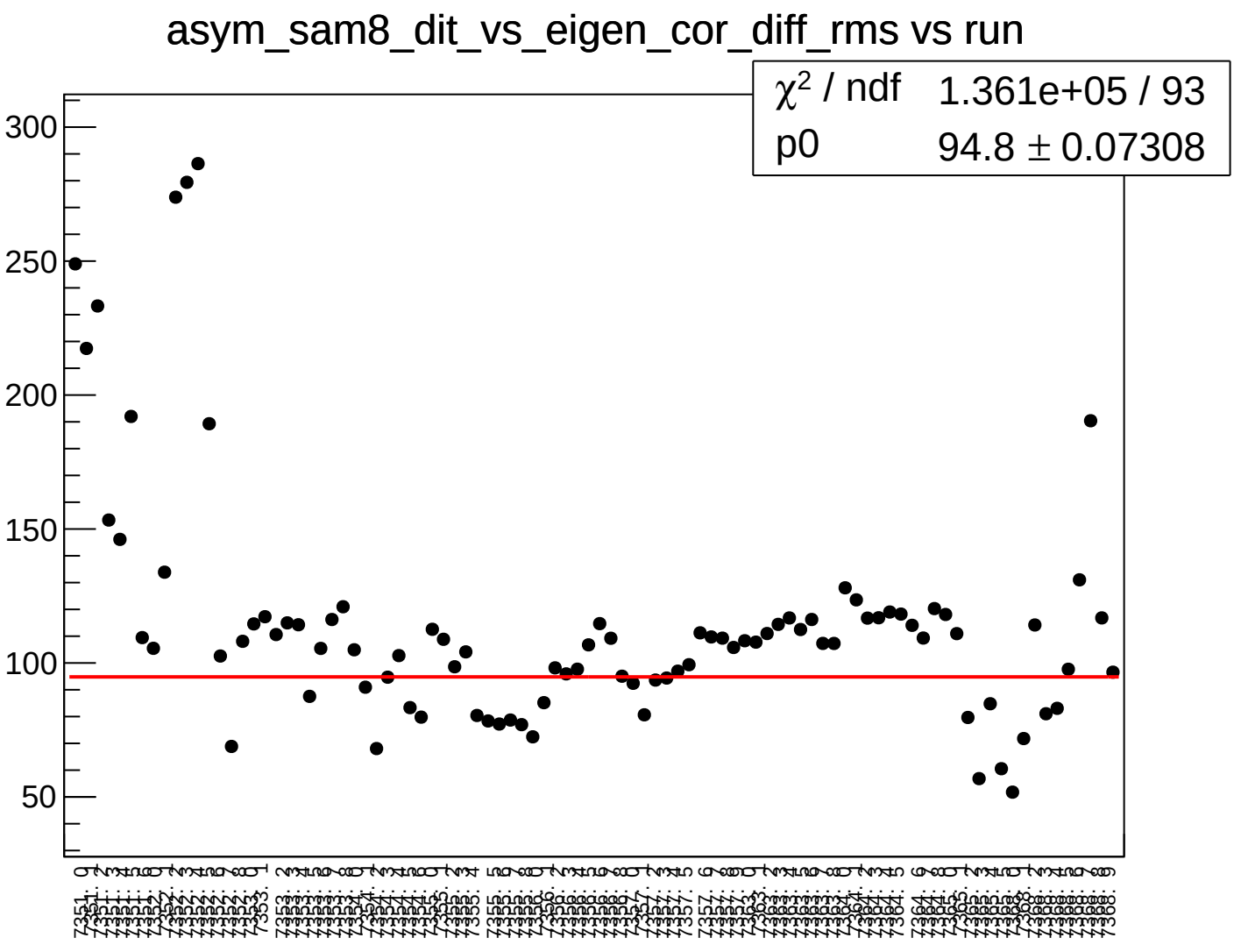

asym_sam8_reg_vs_cor_diff_rms vs run
χ² / ndf 1.333e+06 / 93
p0 4.574e−12 ± 6.565e−15
0.1
0.08
0.06
0.04
0.02
0

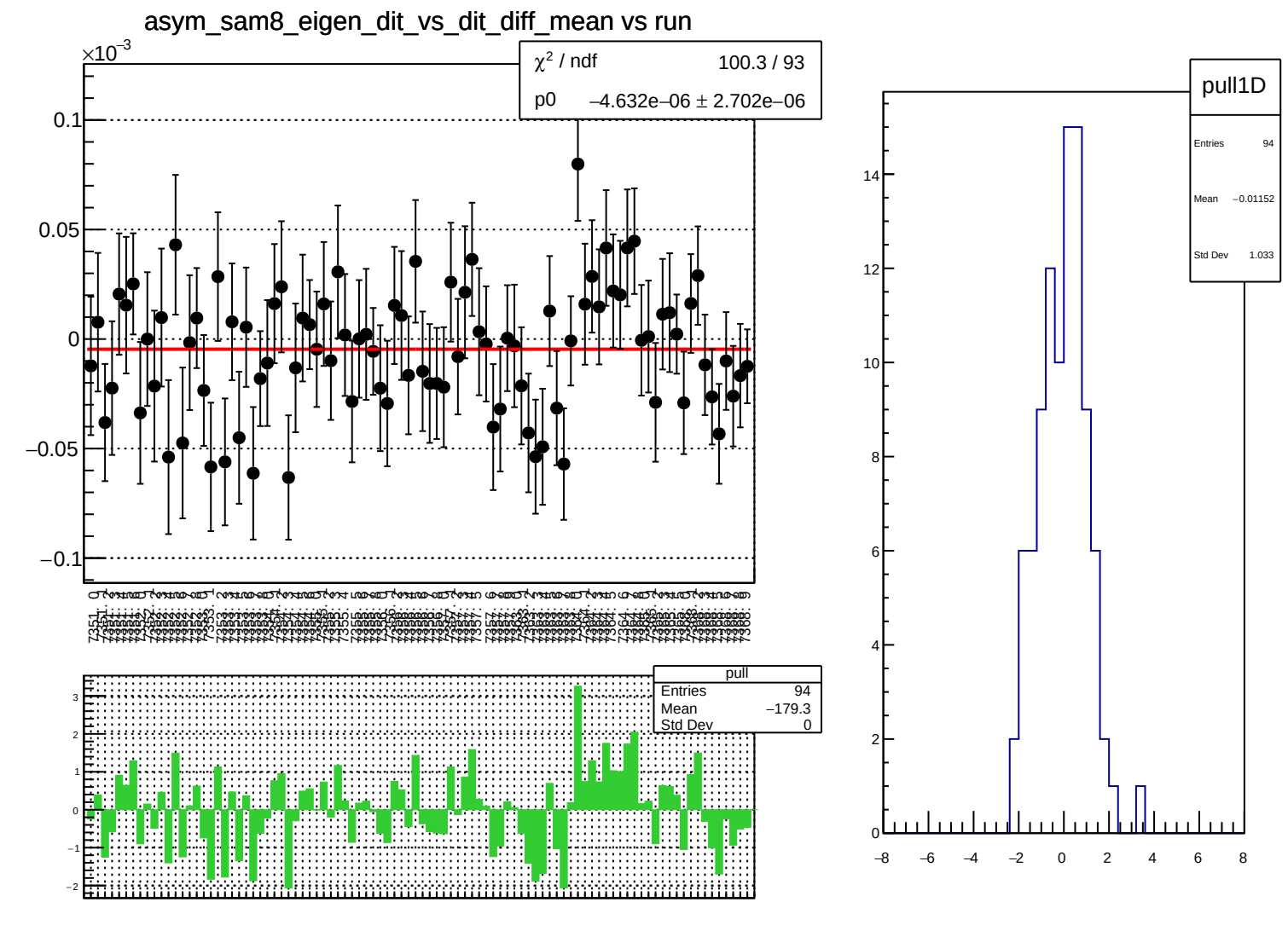

asym_sam8_dit_vs_cor_diff_mean vs run
χ² / ndf 113.3 / 93
p0 −0.09308 ± 0.1034
pull
Entries 94
Mean −105.5
Std Dev 0
pull1D
Entries 94
Mean 0.02653
Std Dev 1.097

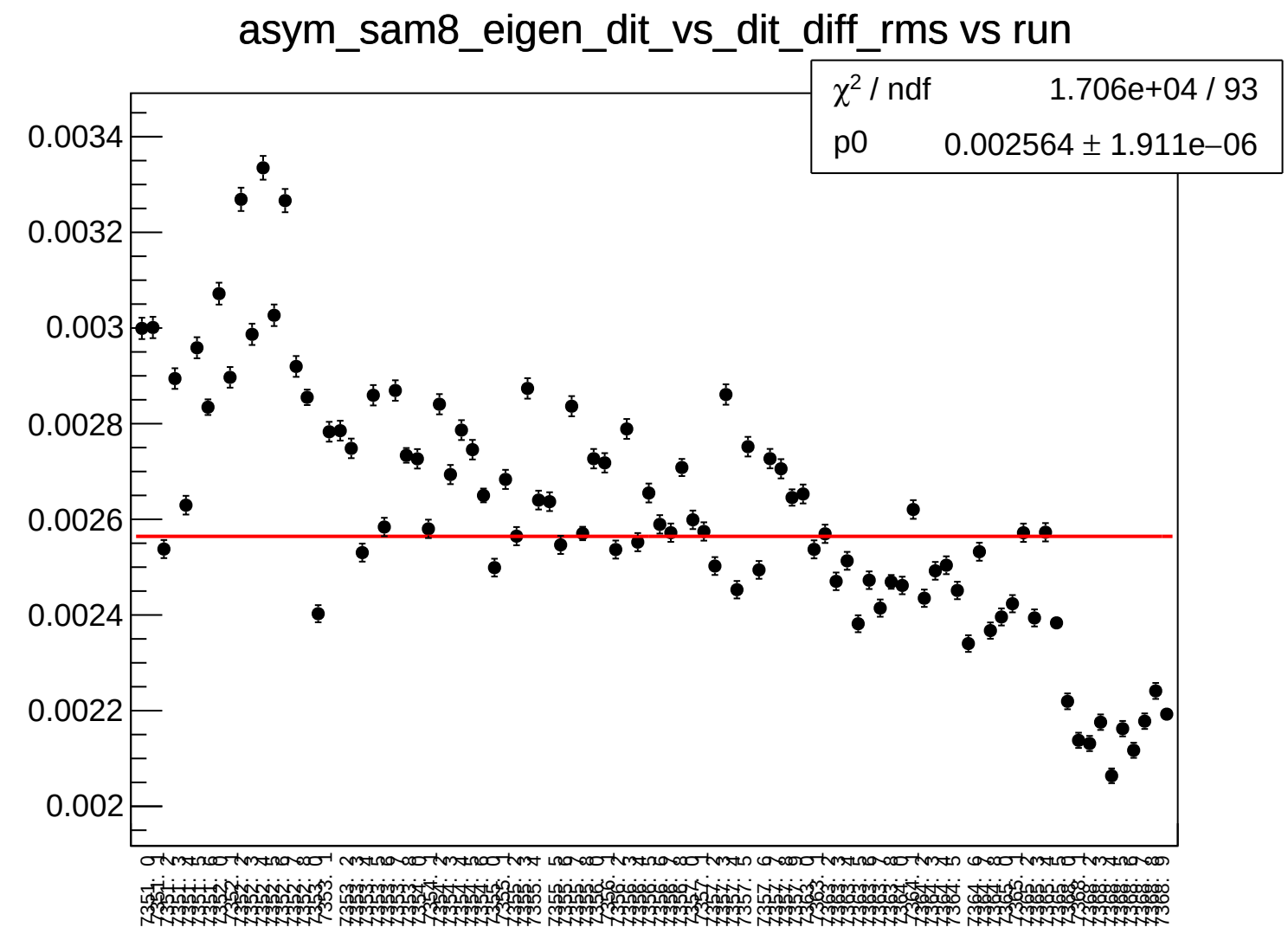

asym_sam8_dit_vs_cor_diff_rms vs run
χ² / ndf 1.361e+05 / 93
p0 94.8 ± 0.07308
300
250
200
150
100
50

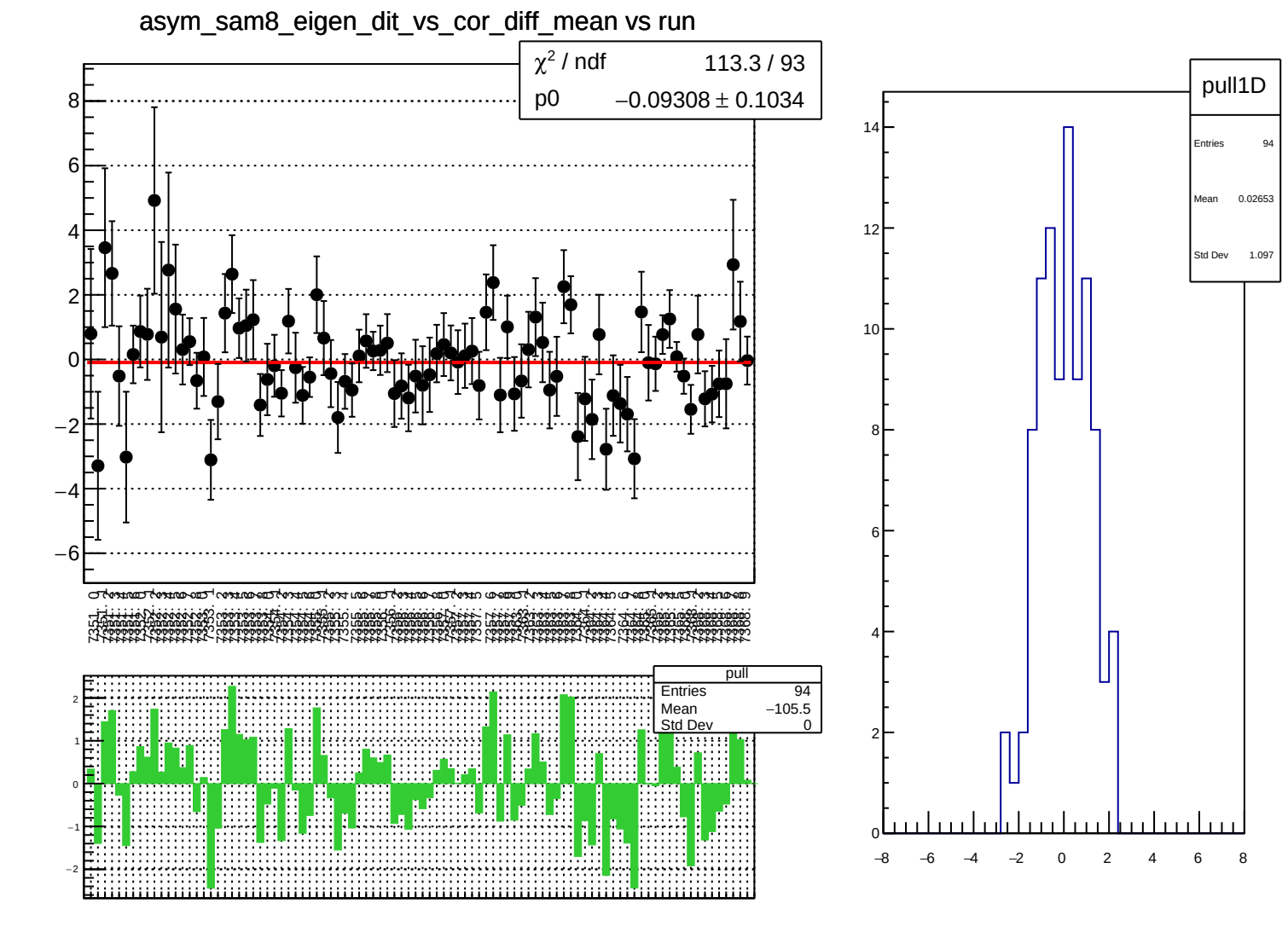

asym_sam8_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 113.3 / 93
p0 −0.09308 ± 0.1034
pull
Entries 94
Mean −105.5
Std Dev 0

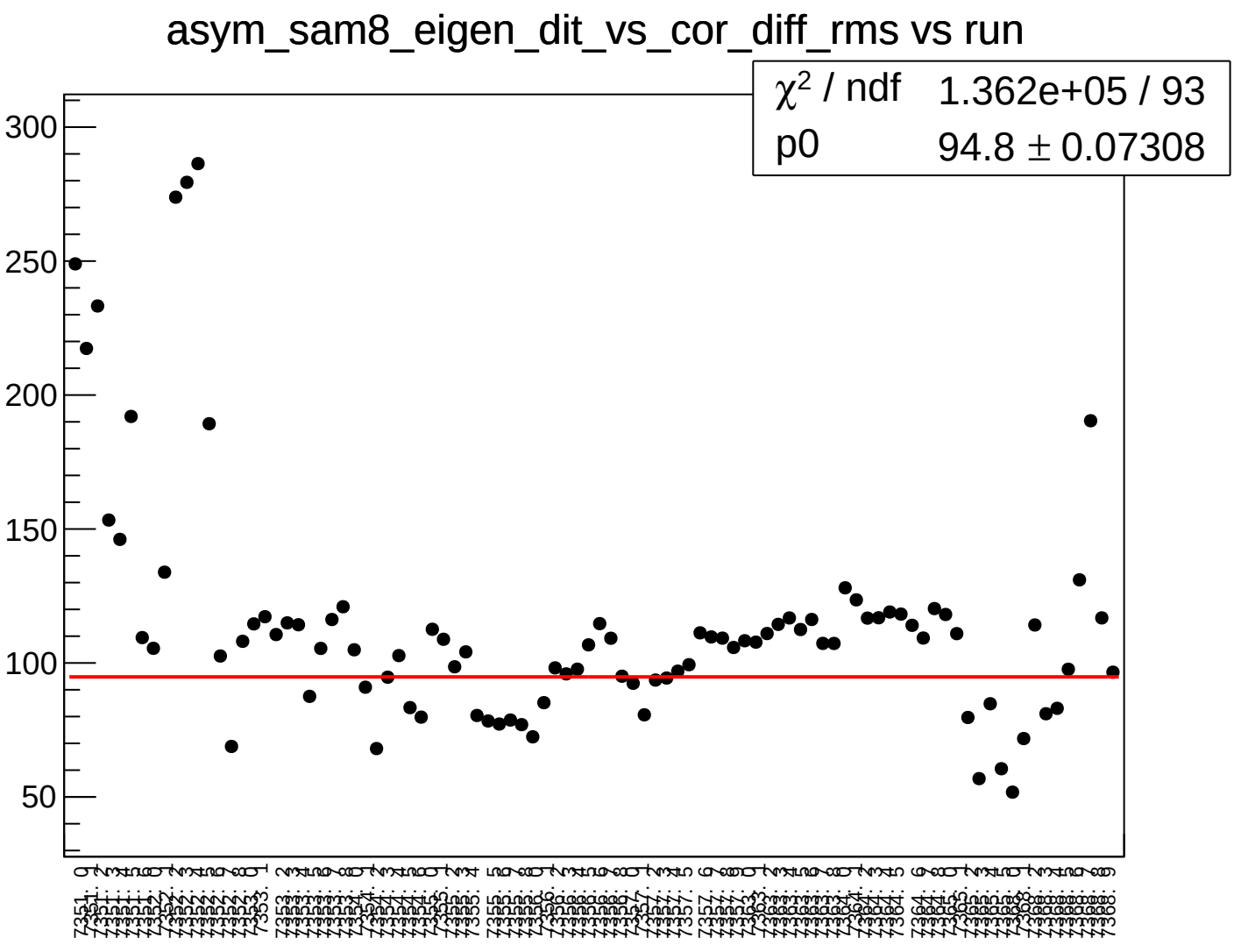

pull1D
Entries 94
Mean 0.02653
Std Dev 1.097

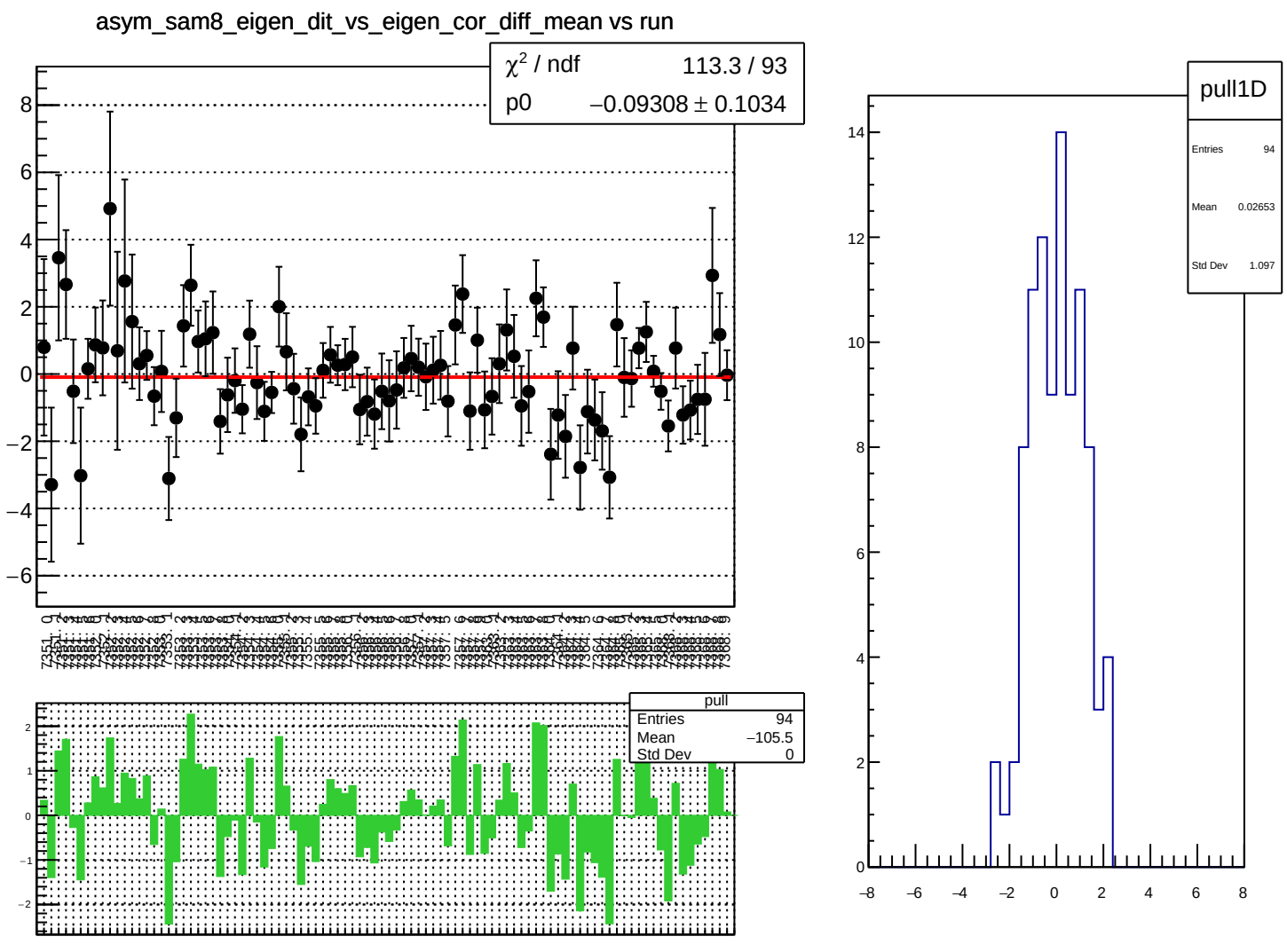

asym_sam8_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.361e+05 / 93
p0 94.8 ± 0.07308
300
250
200
150
100
50

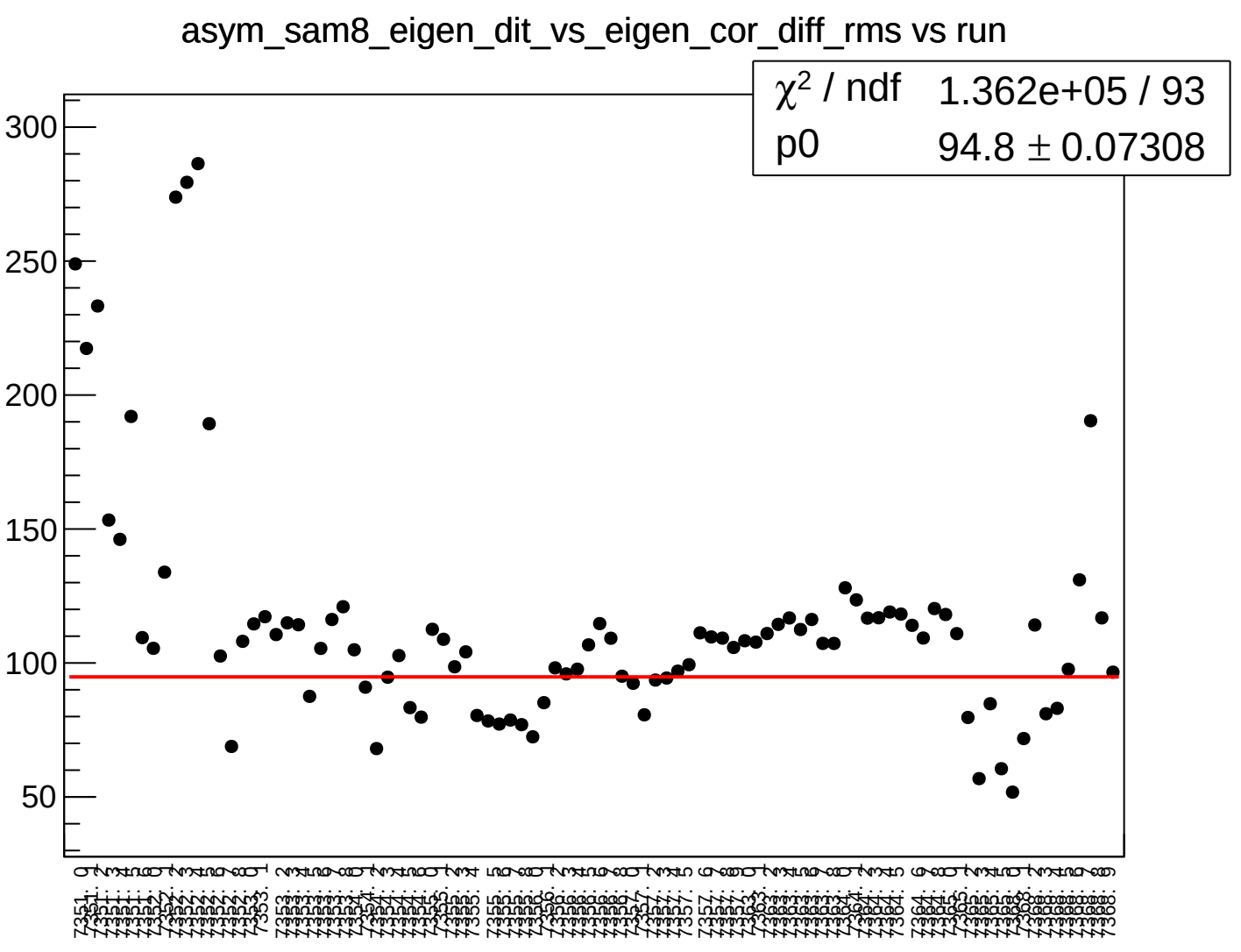

asym_sam8_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 100.3 / 93
p0 −4.632e−06 ± 2.702e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 94
Mean −179.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.01152
Std Dev 1.033
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

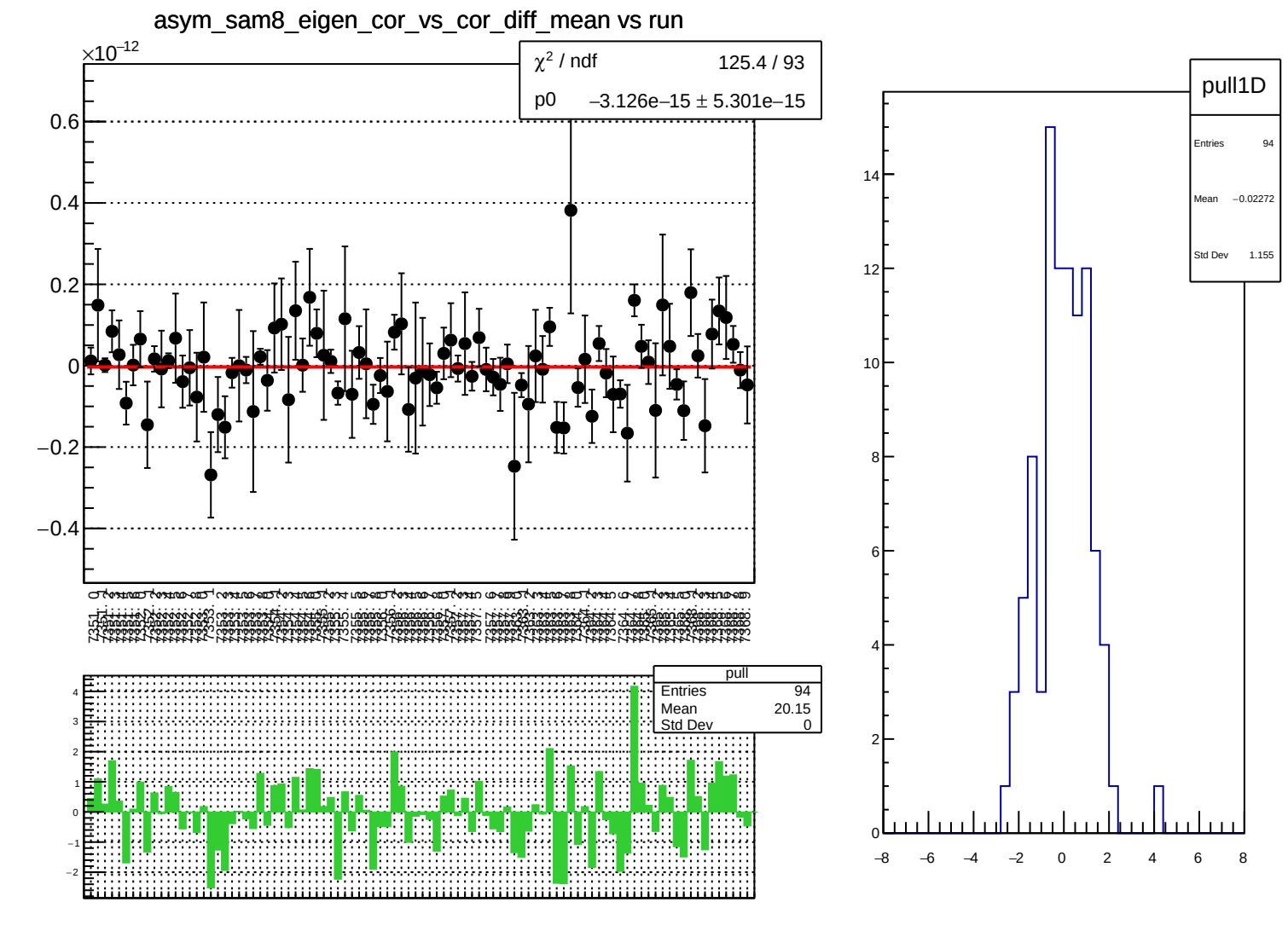

asym_sam8_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.706e+04 / 93
p0 0.002564 ± 1.911e−06
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002

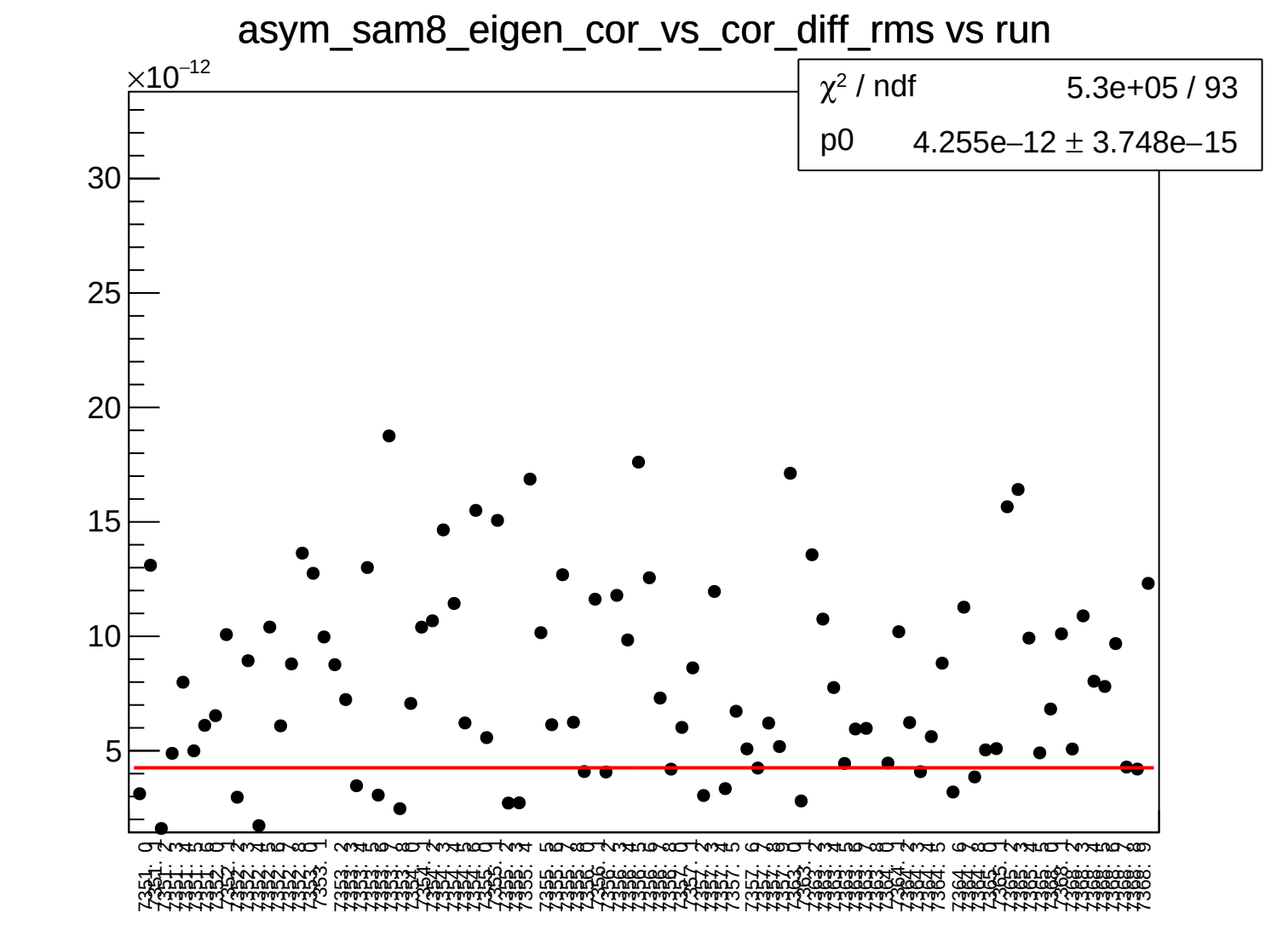

asym_sam8_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 113.3 / 93
p0 −0.09308 ± 0.1034
pull
Entries 94
Mean −105.5
Std Dev 0
pull1D
Entries 94
Mean 0.02653
Std Dev 1.097

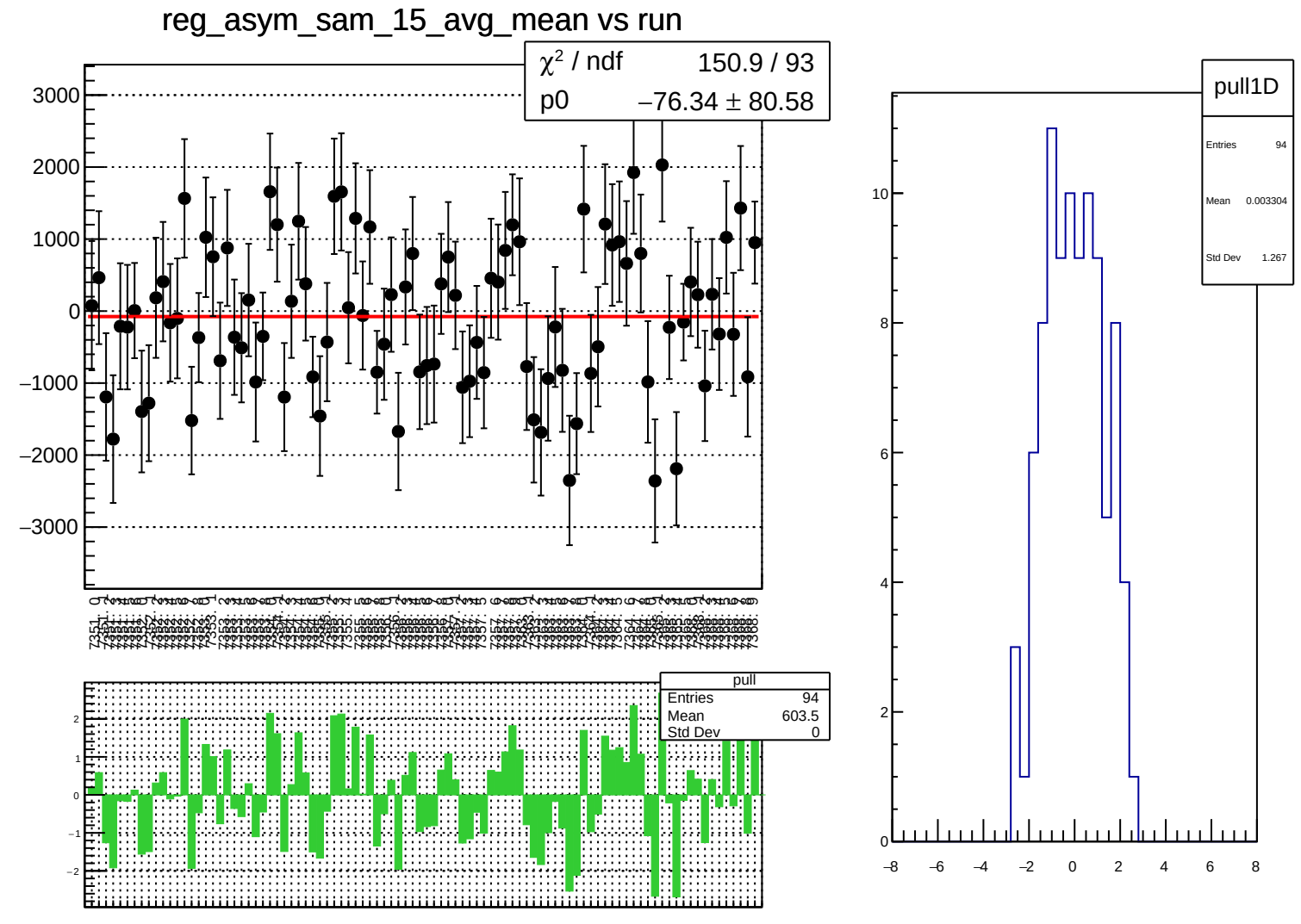

asym_sam8_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.362e+05 / 93
p0 94.8 ± 0.07308
300
250
200
150
100
50

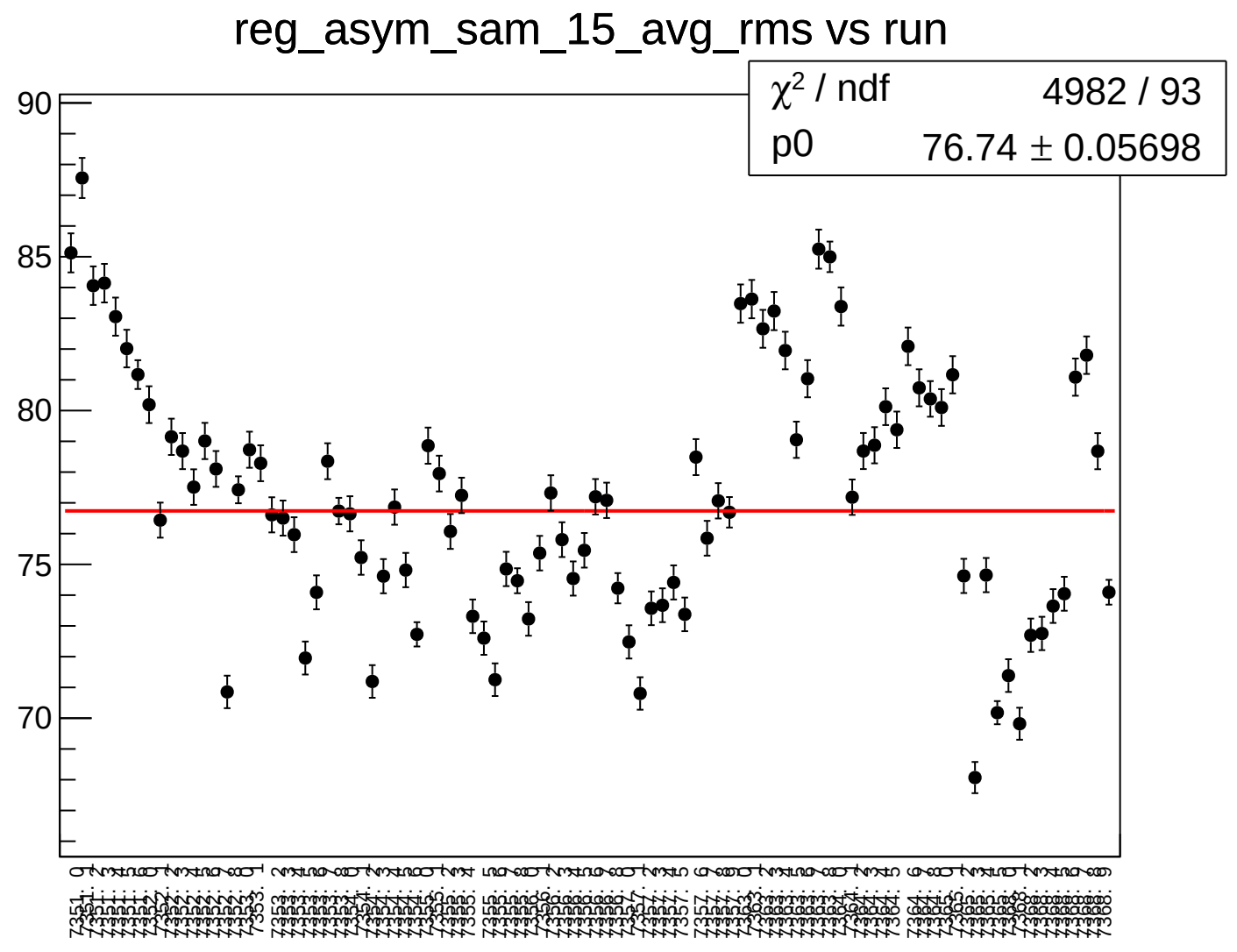

asym_sam8_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 113.3 / 93
p0 −0.09308 ± 0.1034
pull
Entries 94
Mean −105.5
Std Dev 0
pull1D
Entries 94
Mean 0.02653
Std Dev 1.097

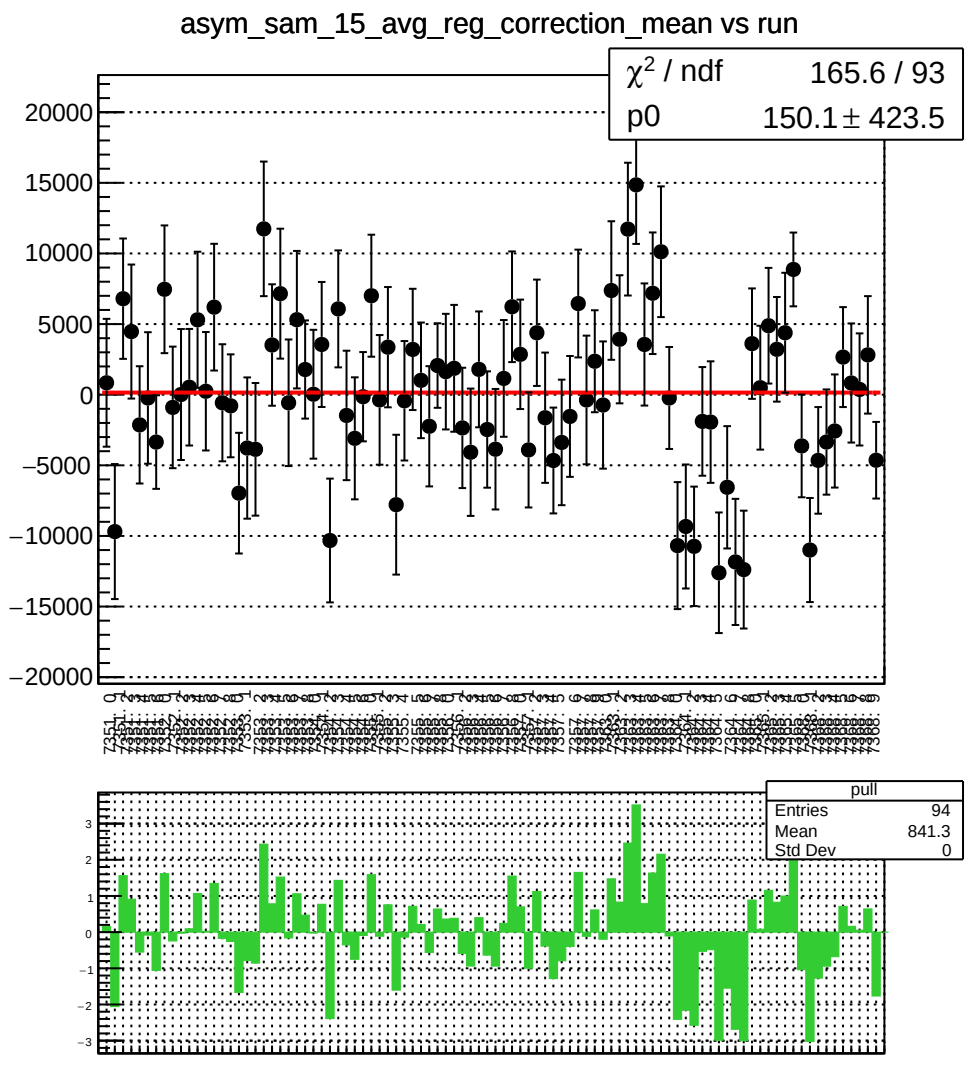

asym_sam8_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.362e+05 / 93
p0 94.8 ± 0.07308
300
250
200
150
100
50

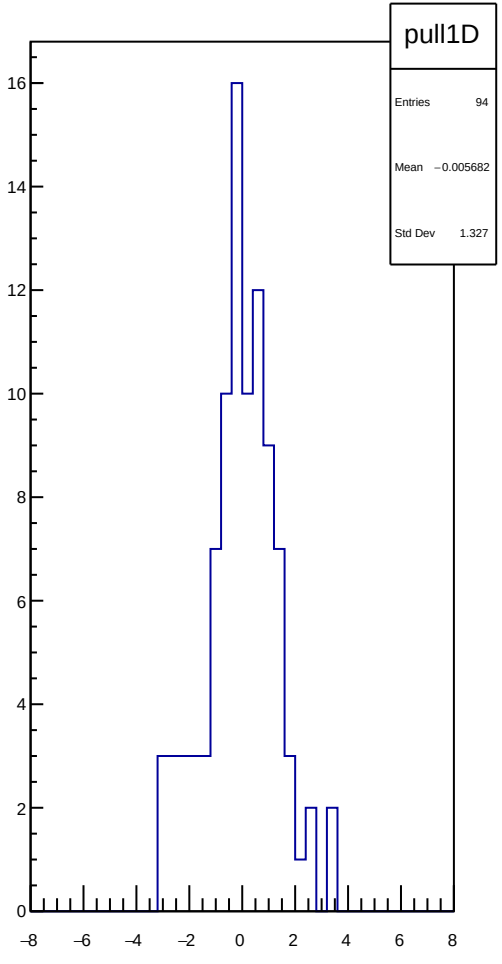

asym_sam8_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 125.4 / 93
p0 −3.126e−15 ± 5.301e−15
0.6
0.4
0.2
0
−0.2
−0.4
pull
Entries 94
Mean 20.15
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.02272
Std Dev 1.155
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

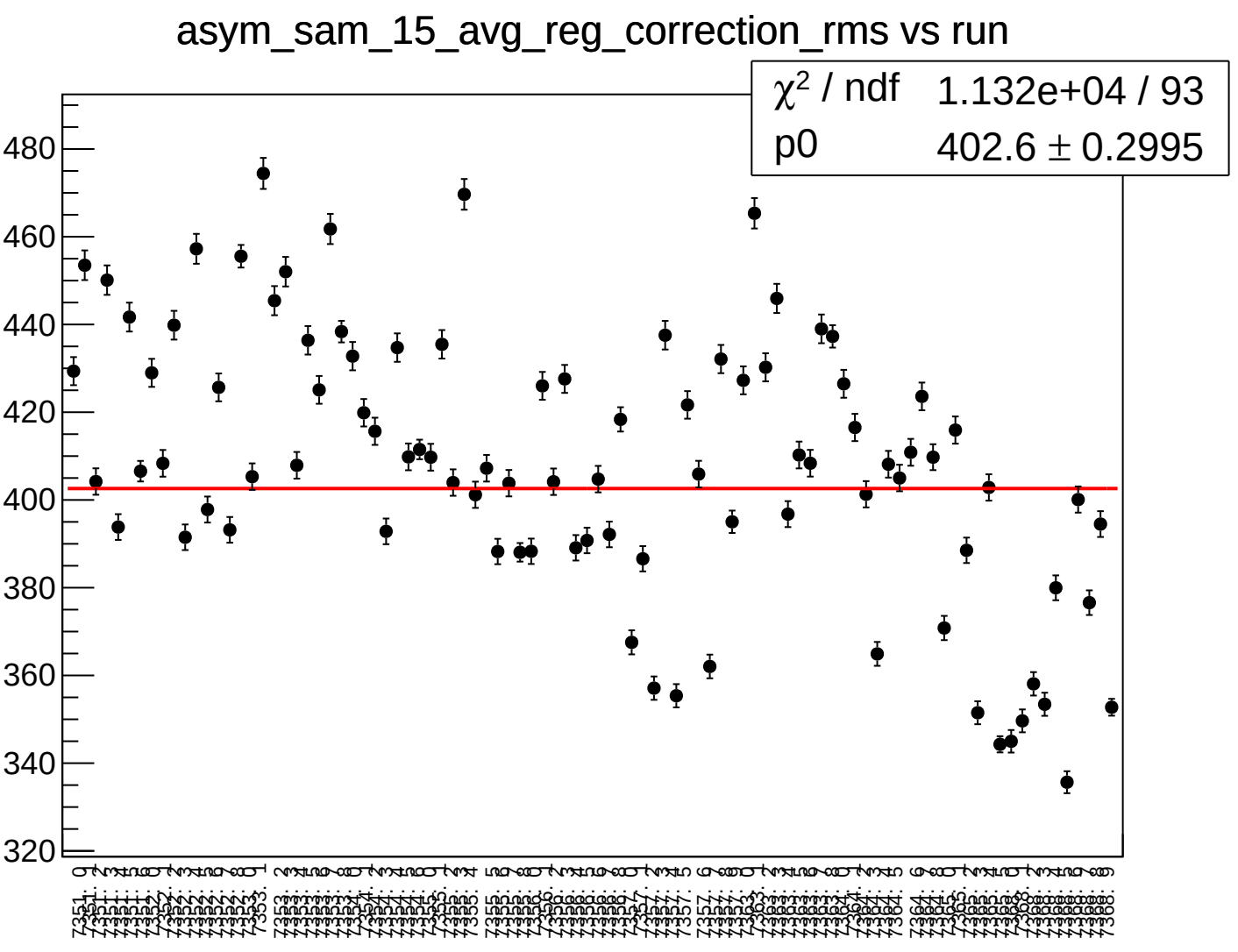

asym_sam8_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.3e+05 / 93
p0 4.255e−12 ± 3.748e−15
30
25
20
15
10
5

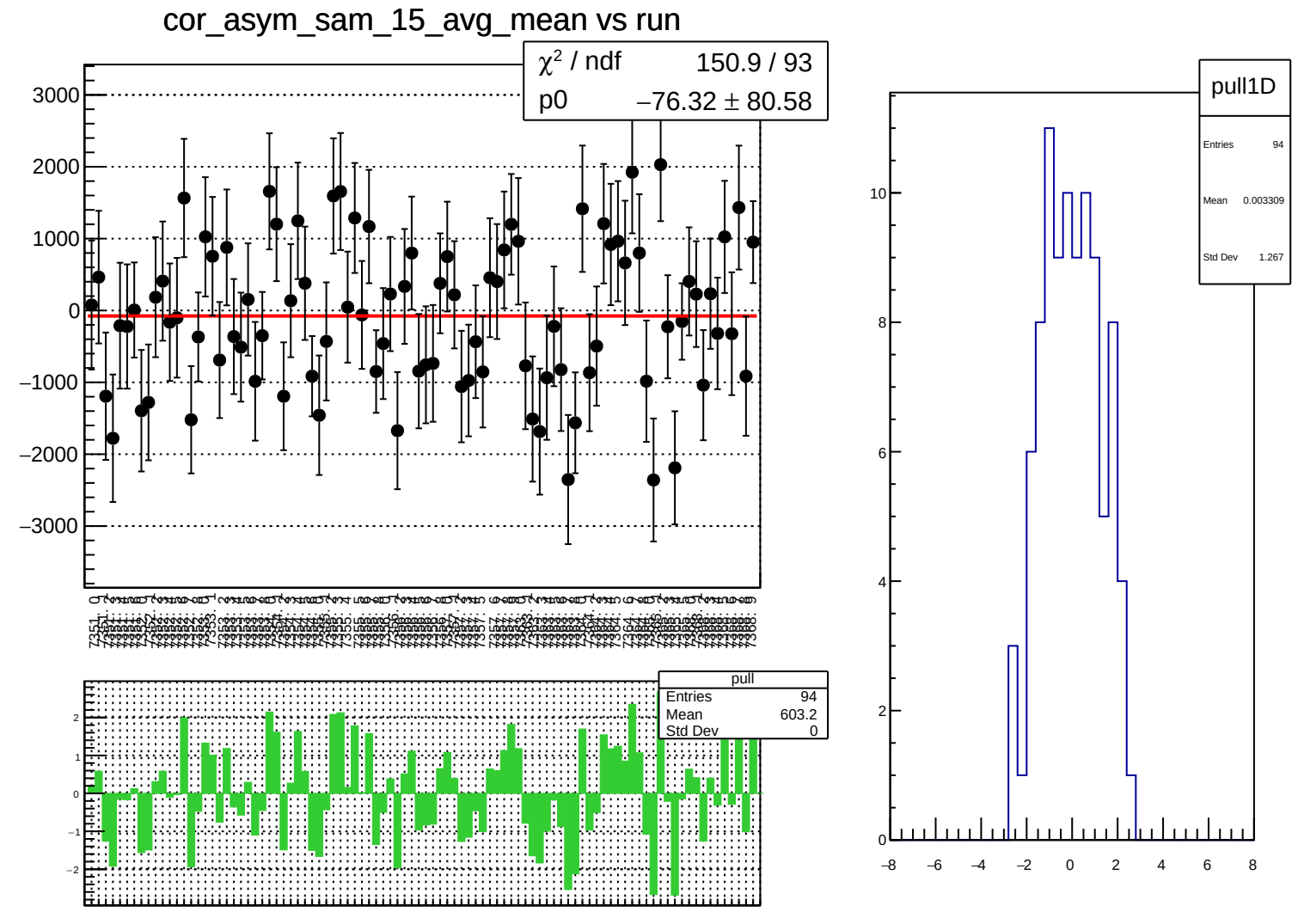

reg_asym_sam_15_avg_mean vs run
χ² / ndf 150.9 / 93
p0 −76.34 ± 80.58
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 94
Mean 603.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.003304
Std Dev 1.267
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

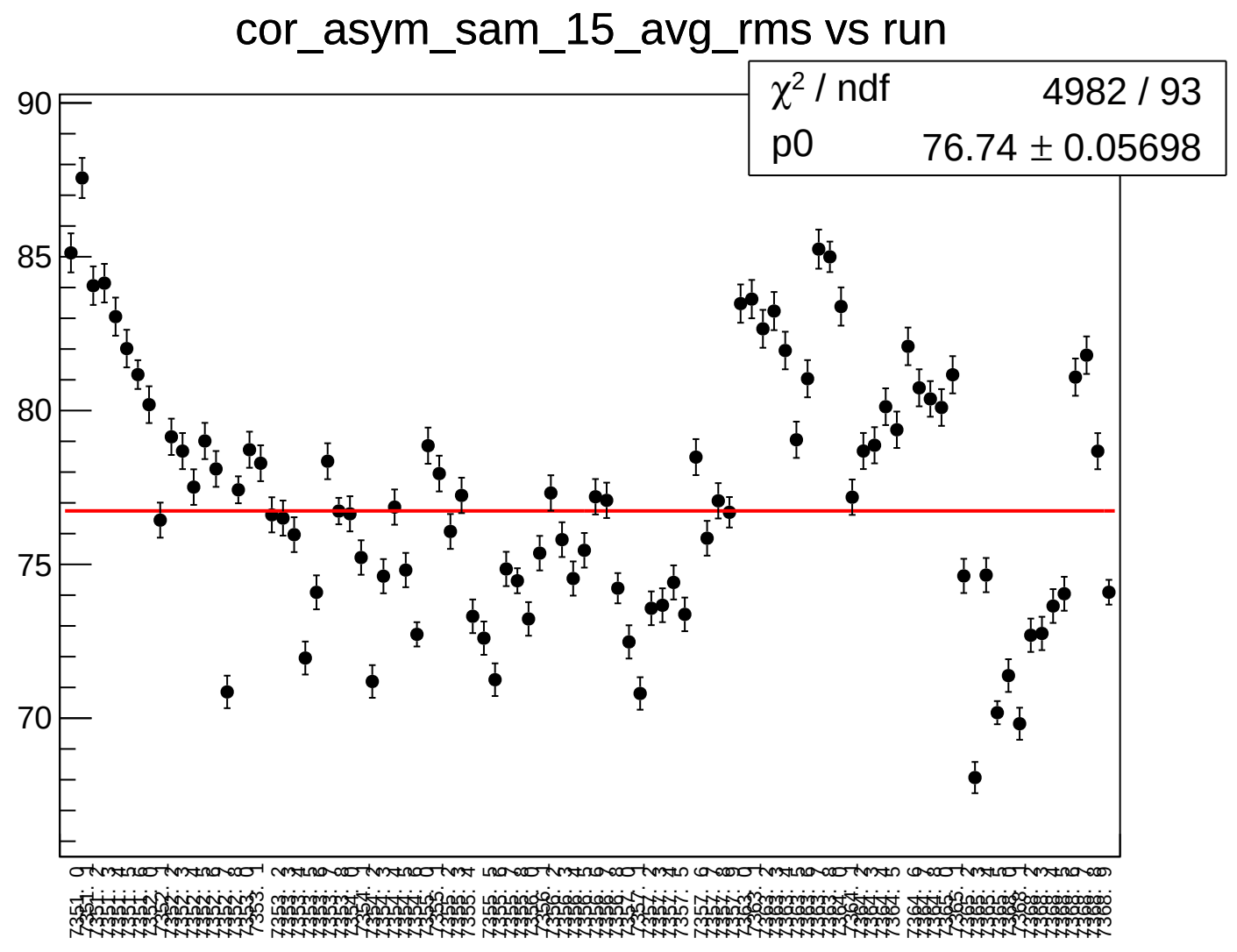

reg_asym_sam_15_avg_rms vs run
χ^2 / ndf 4982 / 93
p0 76.74 ± 0.05698
90
85
80
75
70

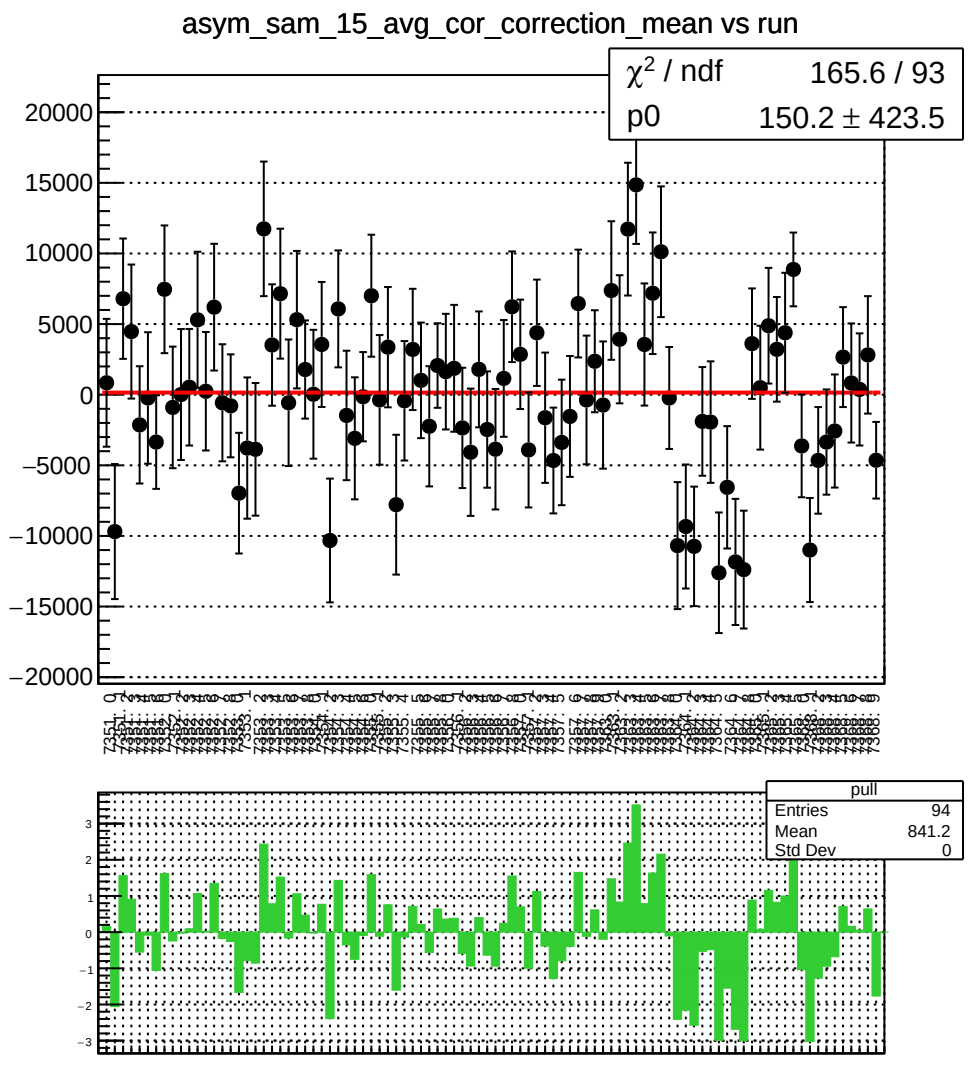

asym_sam_15_avg_reg_correction_mean vs run
χ² / ndf 165.6 / 93
p0 150.1 ± 423.5
pull
Entries 94
Mean 841.3
Std Dev 0

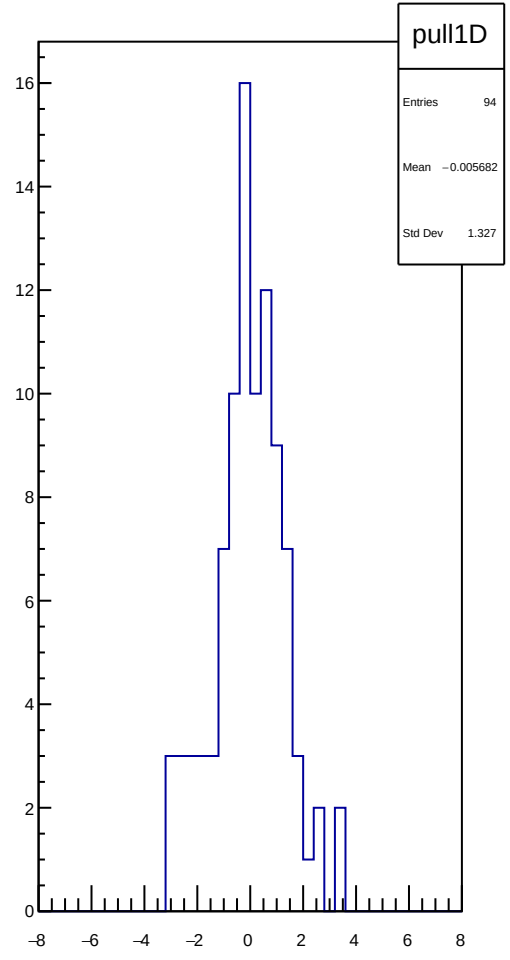

pull1D
Entries 94
Mean −0.005682
Std Dev 1.327

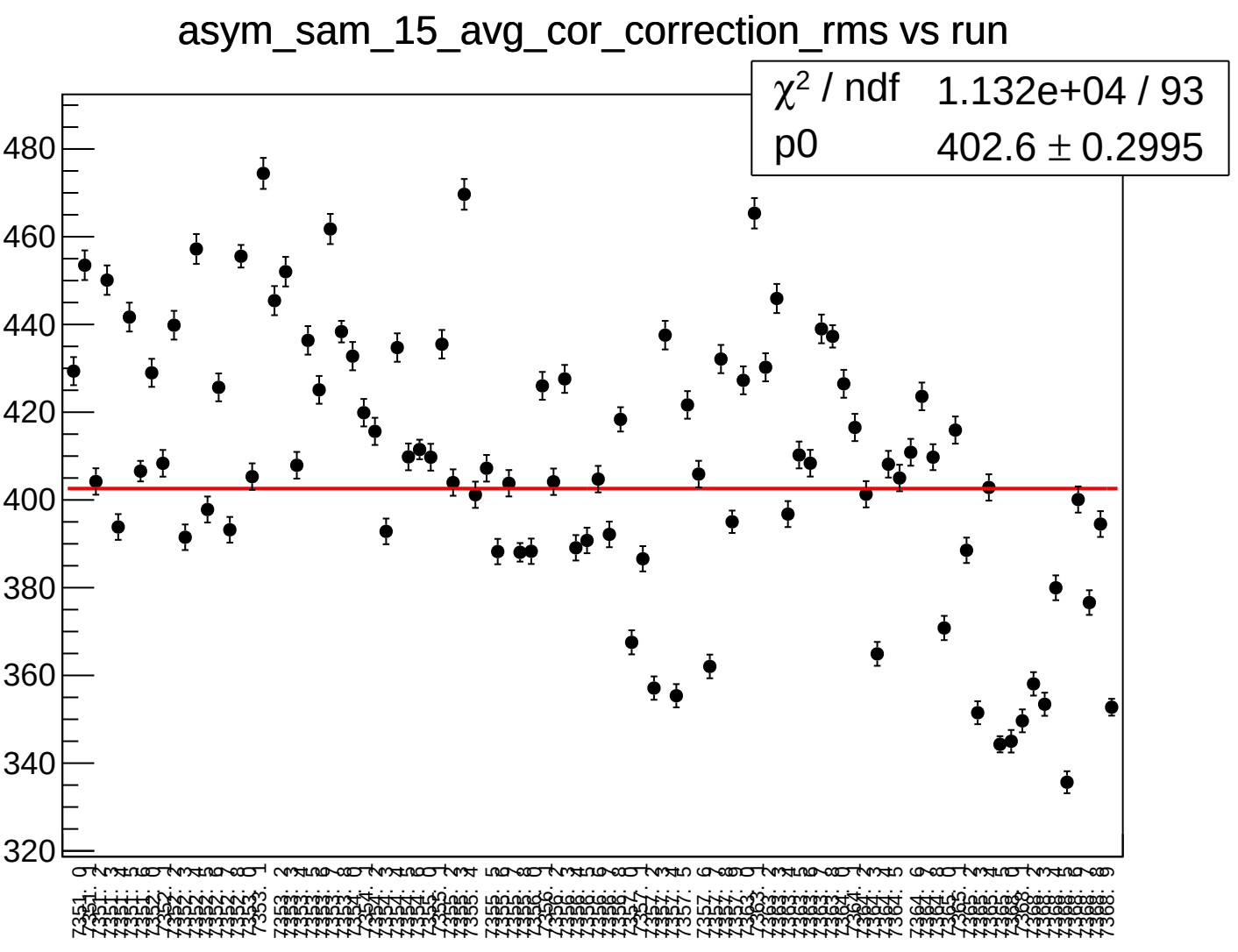

asym_sam_15_avg_reg_correction_rms vs run
χ² / ndf 1.132e+04 / 93
p0 402.6 ± 0.2995
480
460
440
420
400
380
360
340
320

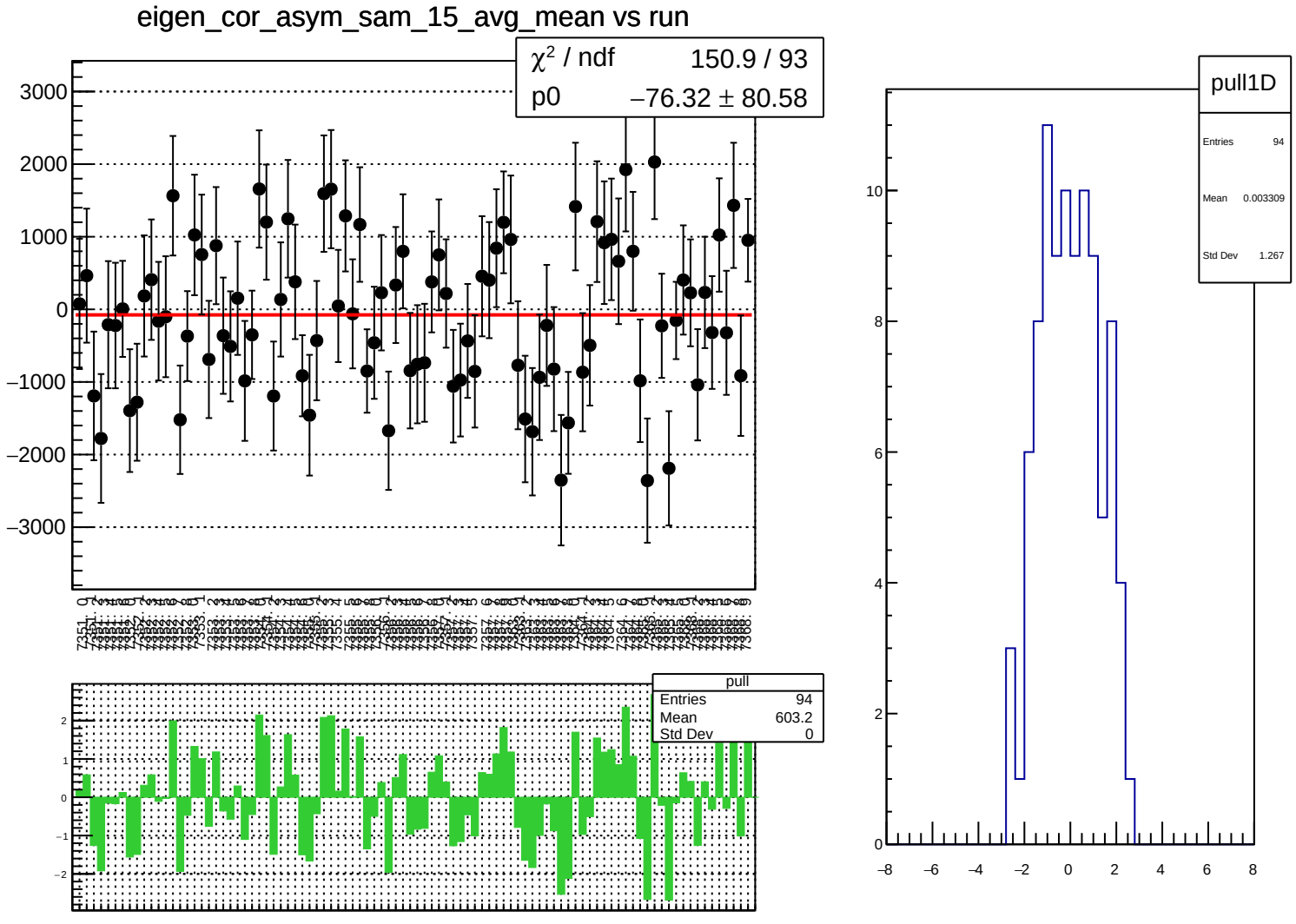

cor_asym_sam_15_avg_mean vs run
χ² / ndf 150.9 / 93
p0 −76.32 ± 80.58
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 94
Mean 603.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.003309
Std Dev 1.267
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

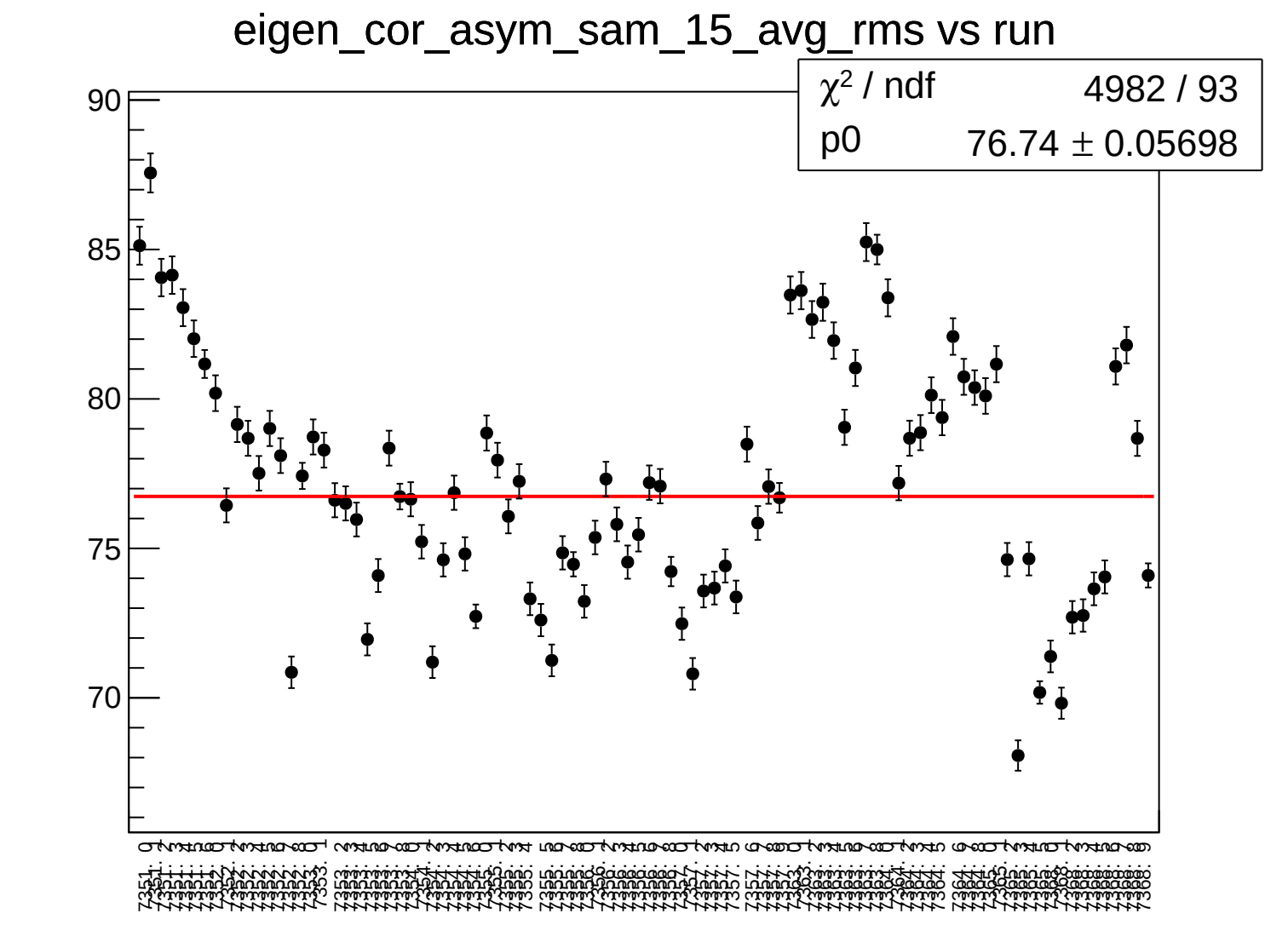

cor_asym_sam_15_avg_rms vs run
χ^2 / ndf 4982 / 93
p0 76.74 ± 0.05698
90
85
80
75
70

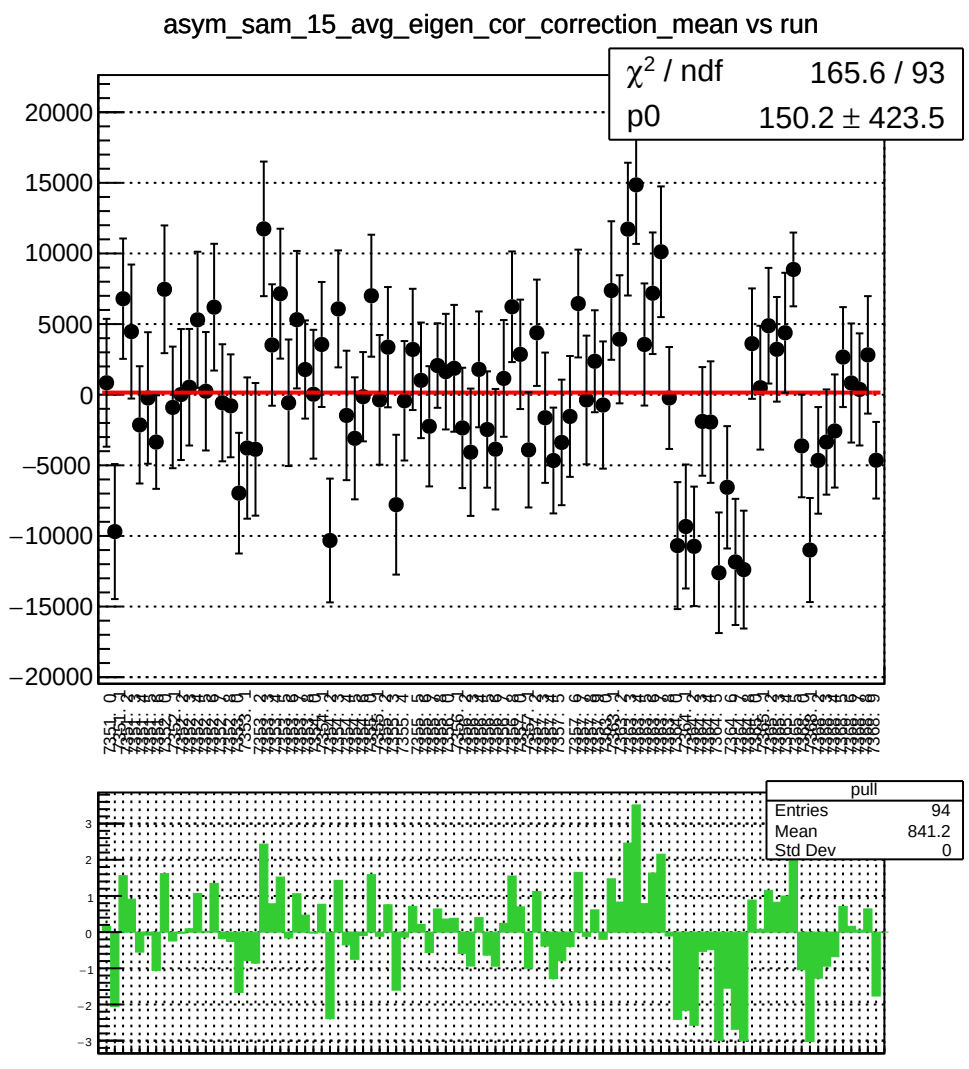

asym_sam_15_avg_cor_correction_mean vs run
χ² / ndf 165.6 / 93
p0 150.2 ± 423.5
pull
Entries 94
Mean 841.2
Std Dev 0

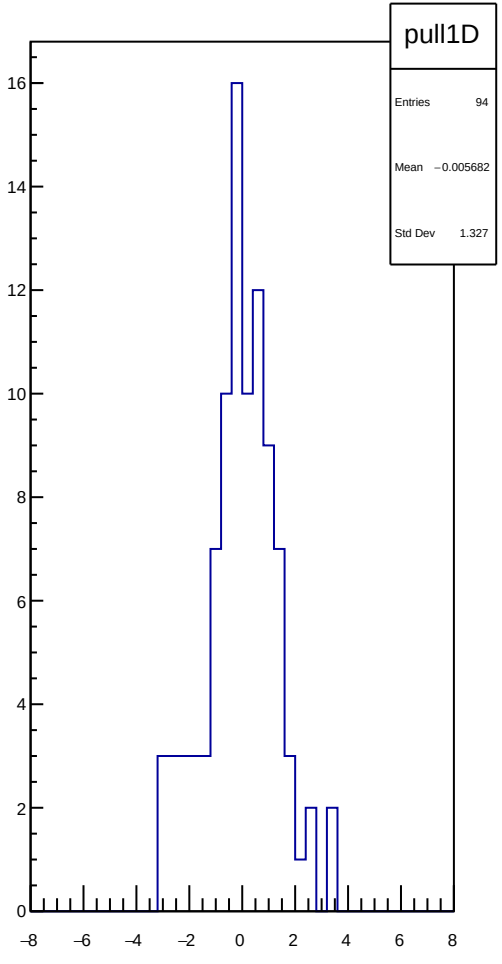

pull1D
Entries 94
Mean −0.005682
Std Dev 1.327

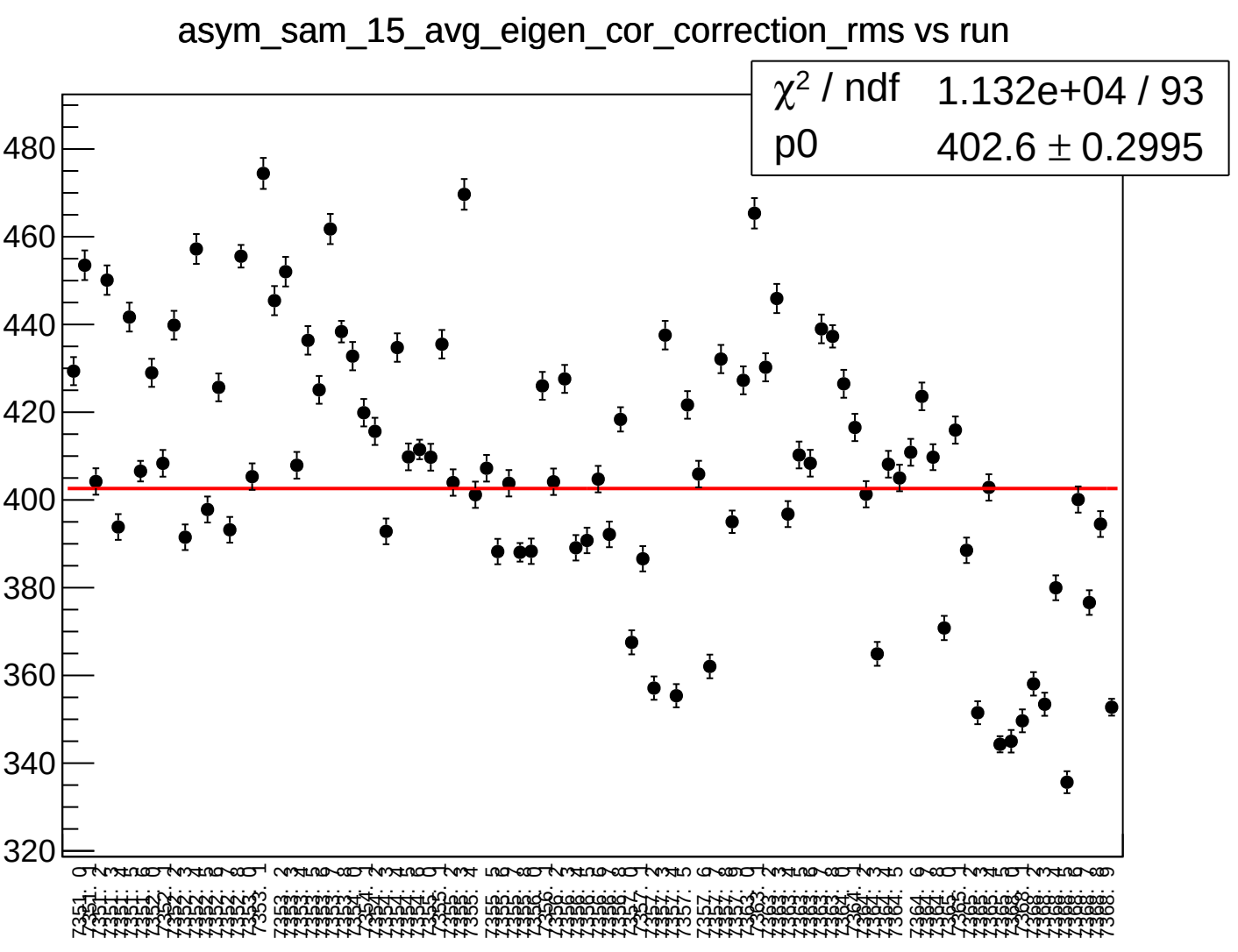

asym_sam_15_avg_cor_correction_rms vs run
χ² / ndf 1.132e+04 / 93
p0 402.6 ± 0.2995
480
460
440
420
400
380
360
340
320

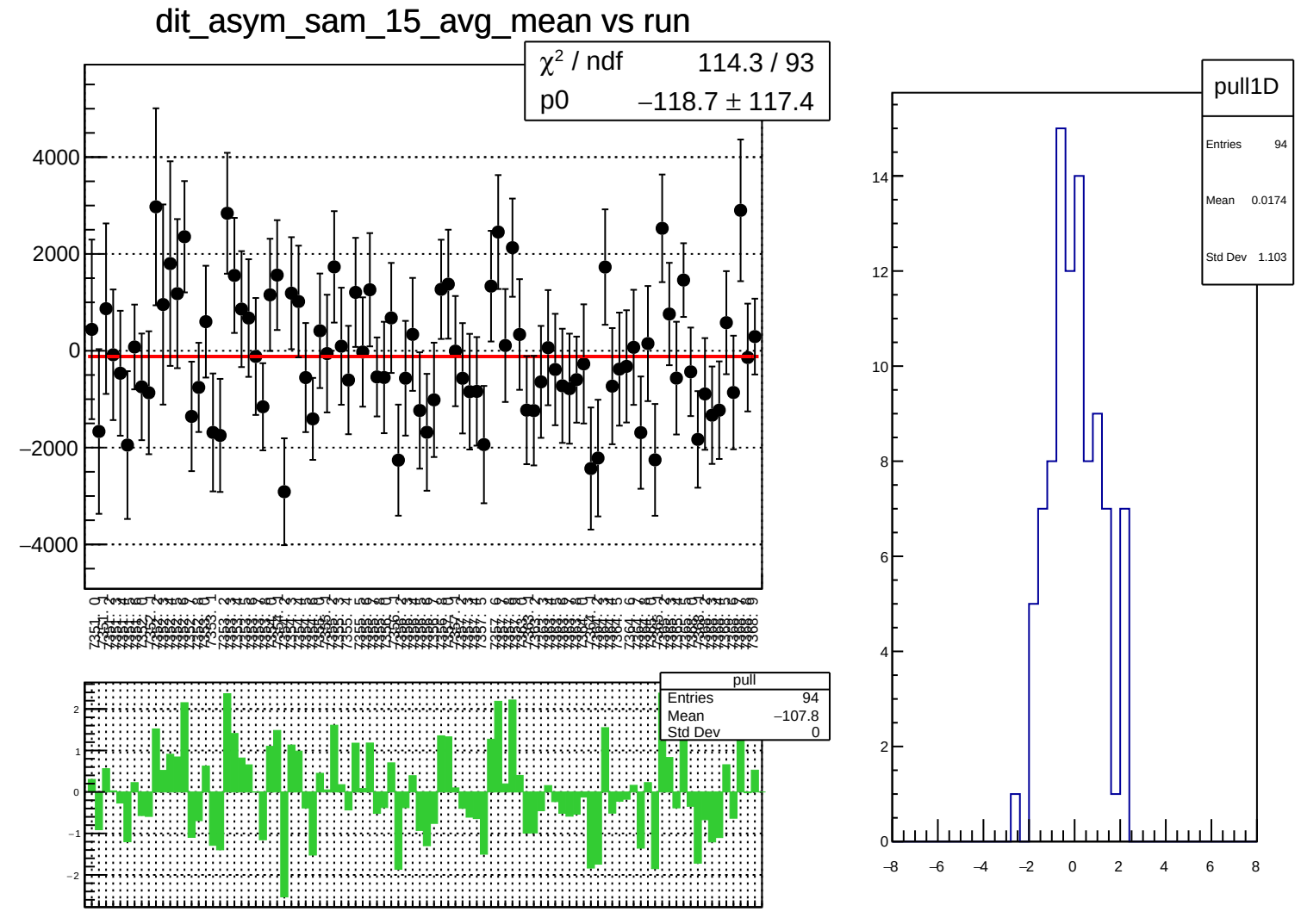

eigen_cor_asym_sam_15_avg_mean vs run
χ² / ndf 150.9 / 93
p0 −76.32 ± 80.58
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 94
Mean 603.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.003309
Std Dev 1.267
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

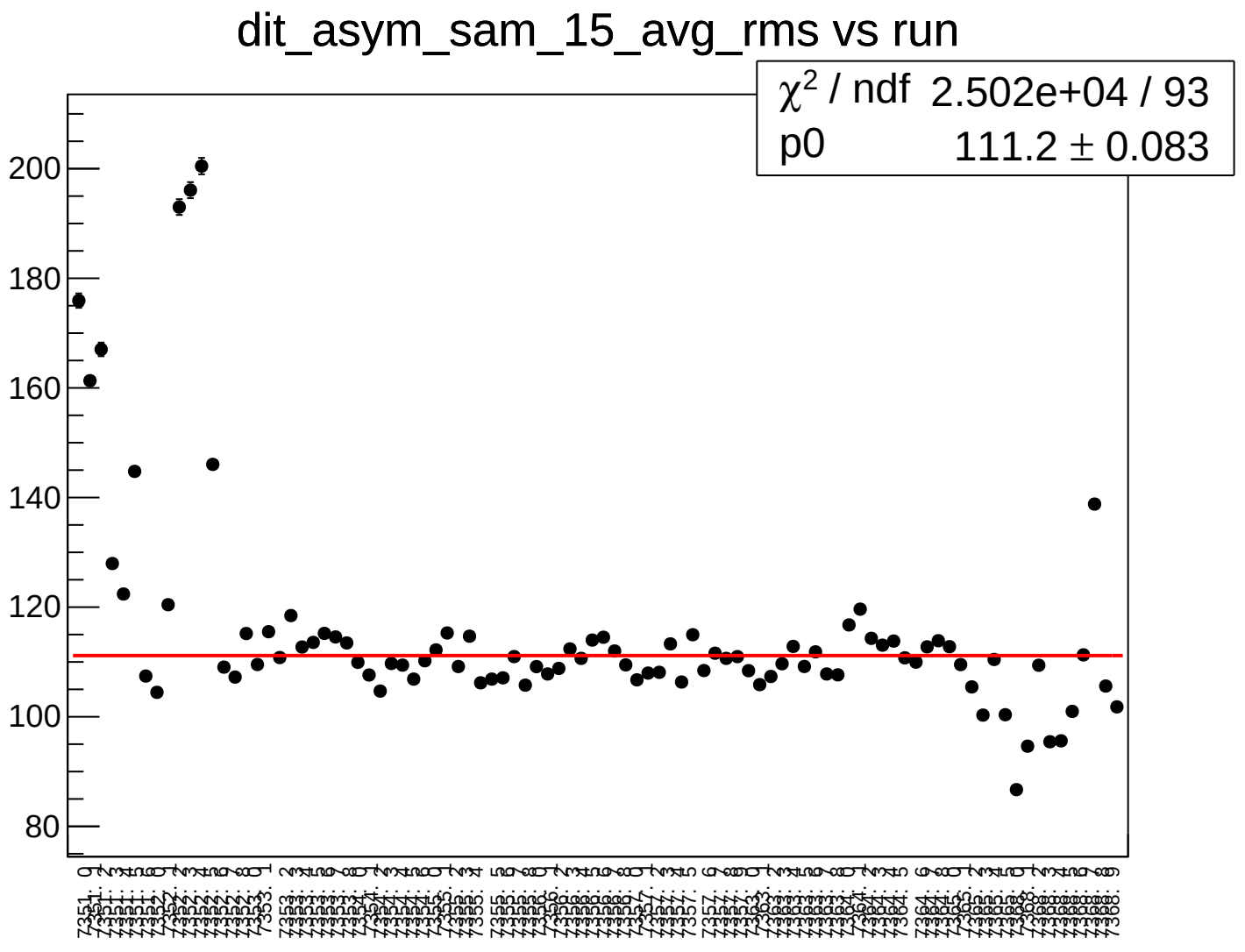

eigen_cor_asym_sam_15_avg_rms vs run
χ² / ndf 4982 / 93
p0 76.74 ± 0.05698
90
85
80
75
70

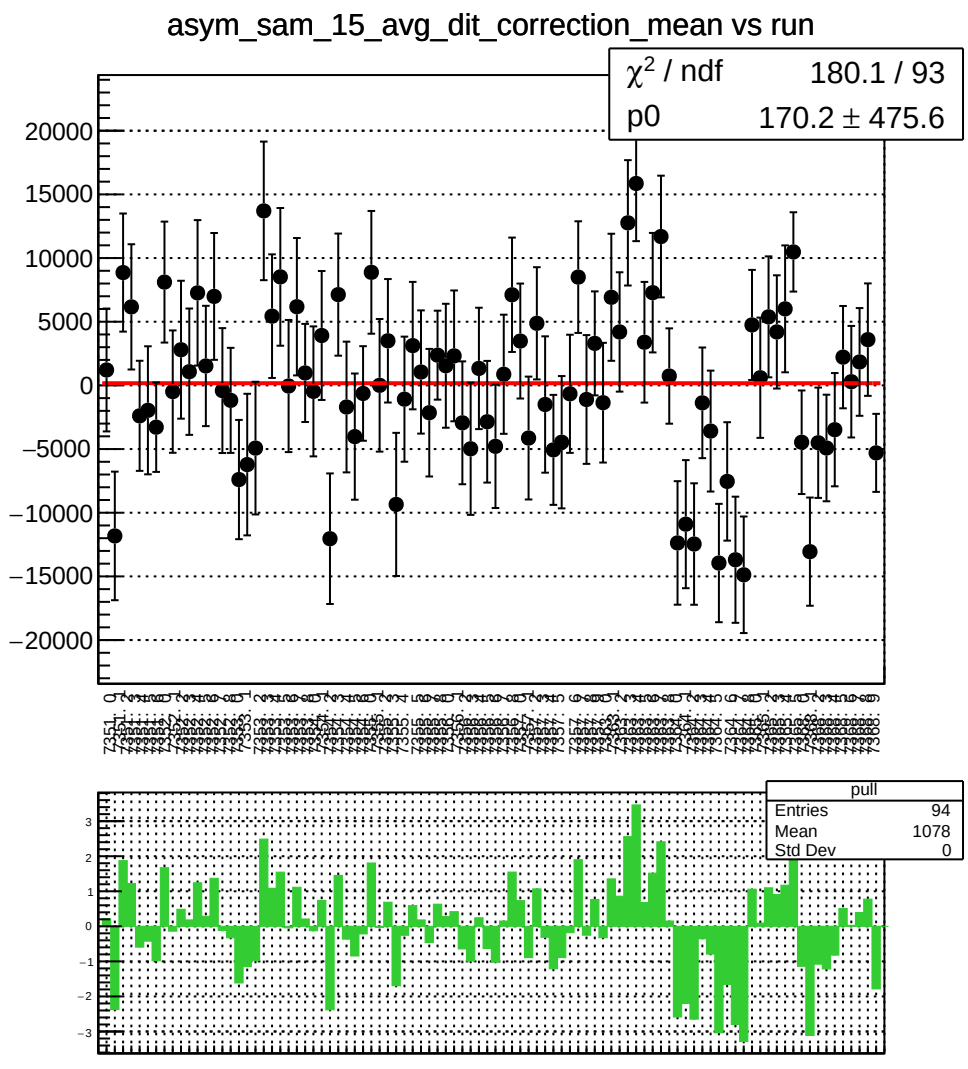

asym_sam_15_avg_eigen_cor_correction_mean vs run
χ² / ndf 165.6 / 93
p0 150.2 ± 423.5
pull
Entries 94
Mean 841.2
Std Dev 0

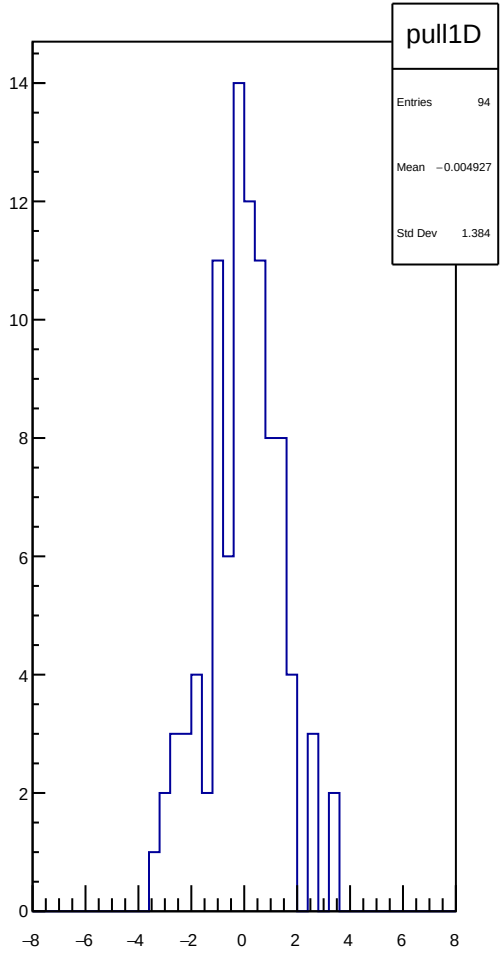

pull1D
Entries 94
Mean −0.005682
Std Dev 1.327

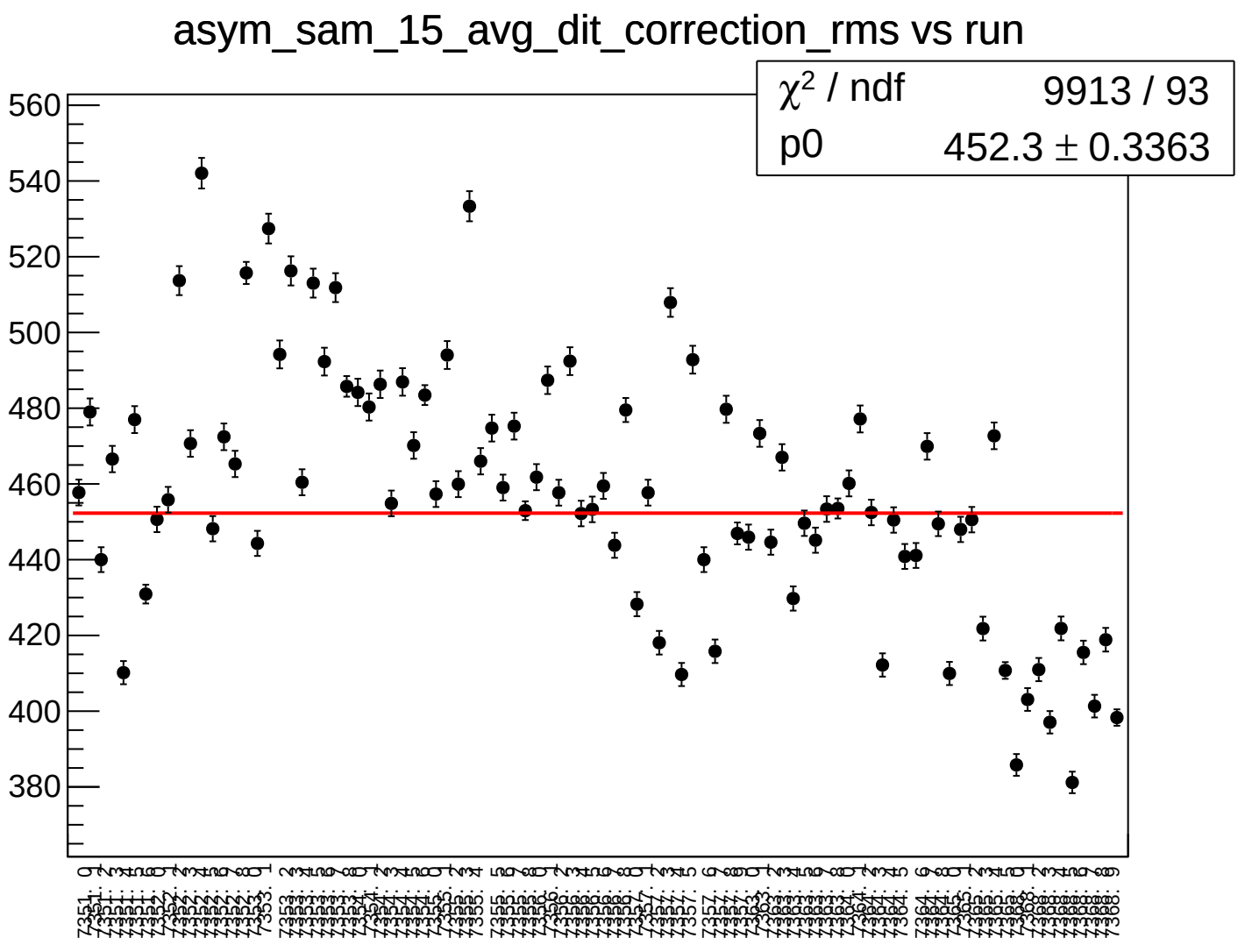

asym_sam_15_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.132e+04 / 93
p0 402.6 ± 0.2995
480
460
440
420
400
380
360
340
320

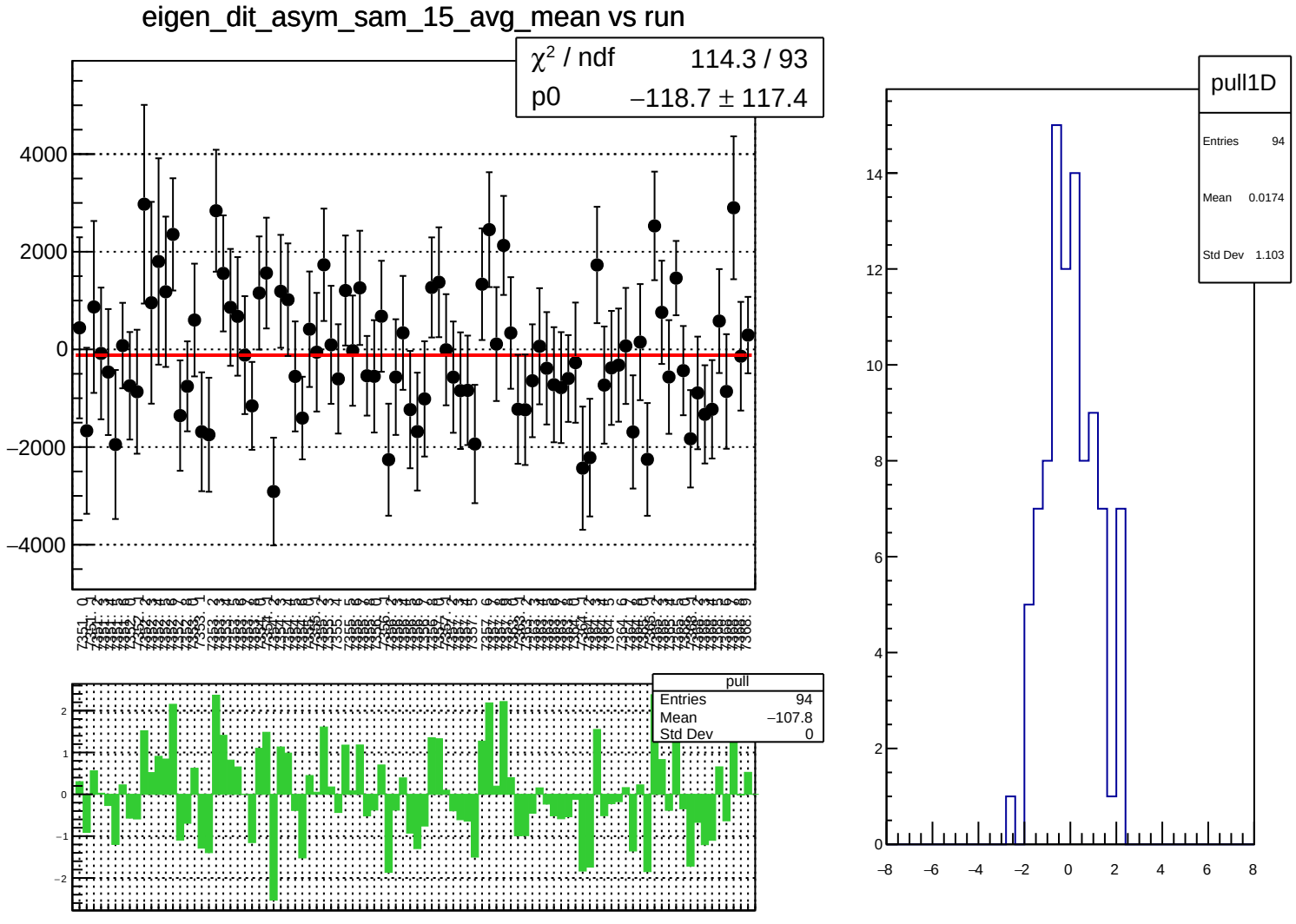

dit_asym_sam_15_avg_mean vs run
χ² / ndf 114.3 / 93
p0 −118.7 ± 117.4
4000
2000
0
−2000
−4000
pull
Entries 94
Mean −107.8
Std Dev 0
pull1D
Entries 94
Mean 0.0174
Std Dev 1.103
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

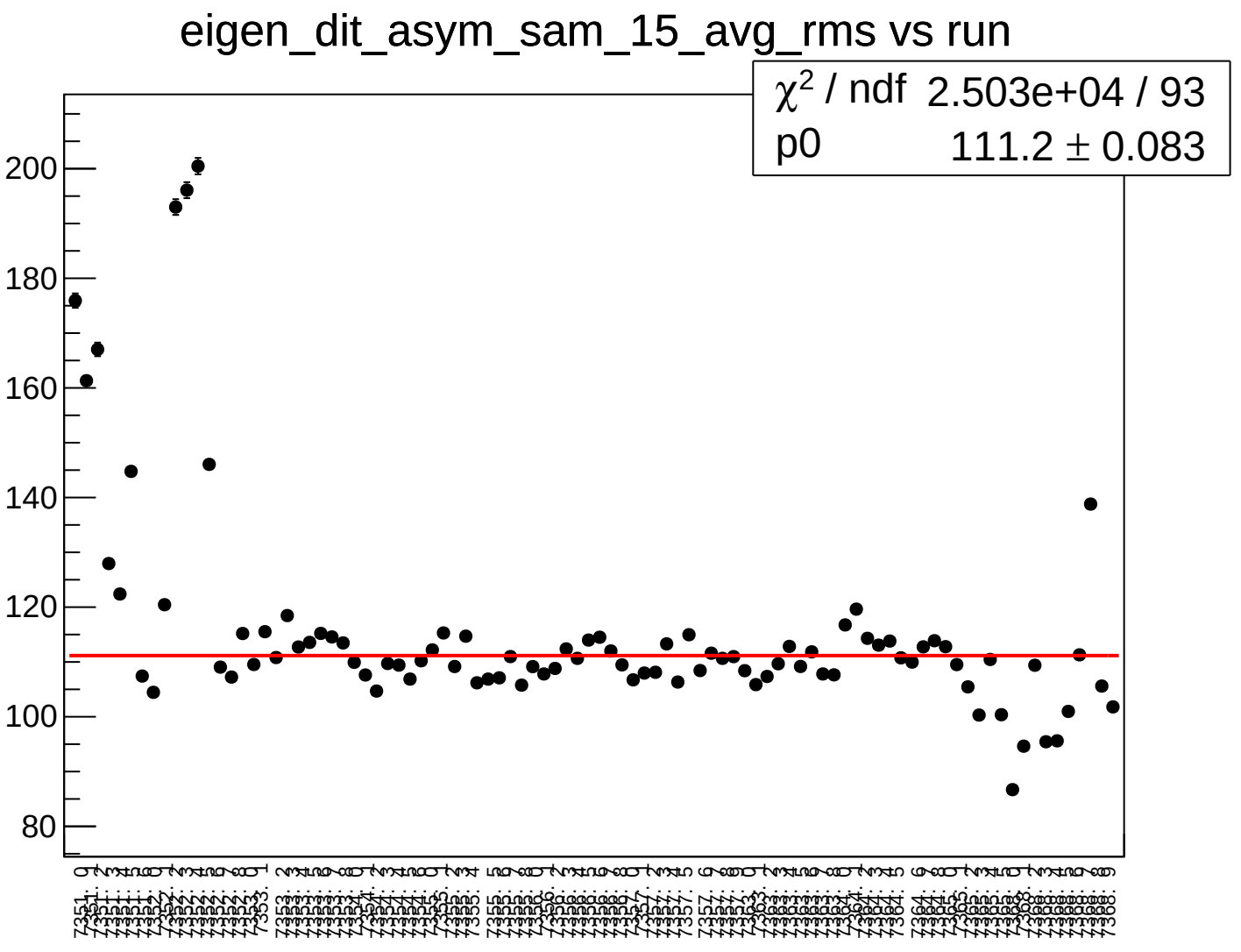

dit_asym_sam_15_avg_rms vs run
χ^2 / ndf 2.502e+04 / 93
p0 111.2 ± 0.083
200
180
160
140
120
100
80

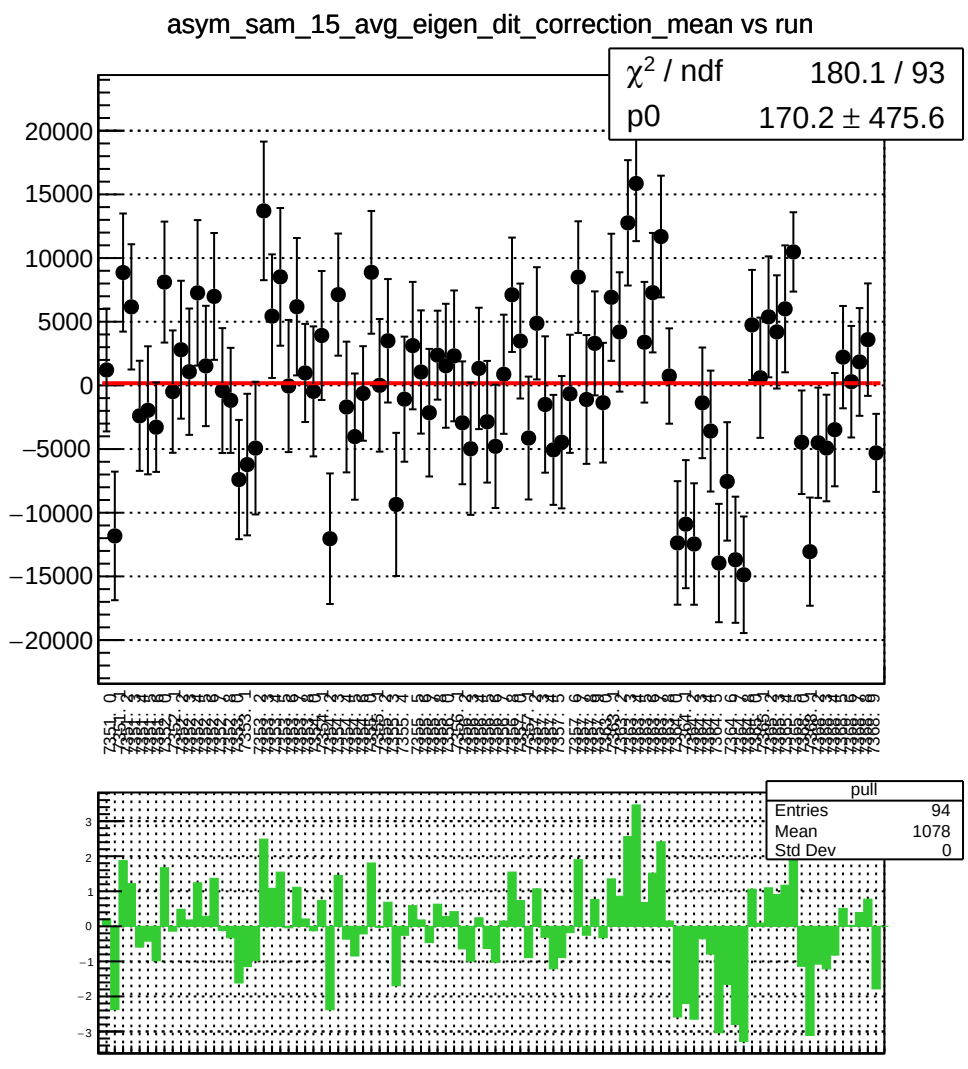

asym_sam_15_avg_dit_correction_mean vs run
χ² / ndf 180.1 / 93
p0 170.2 ± 475.6
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 94
Mean 1078
Std Dev 0
3
2
1
0
−1
−2
−3

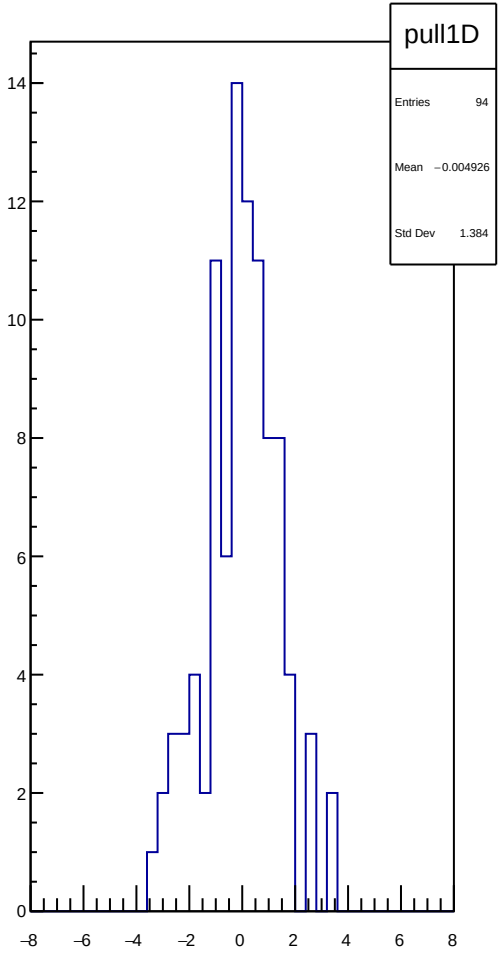

pull1D
Entries 94
Mean −0.004927
Std Dev 1.384
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

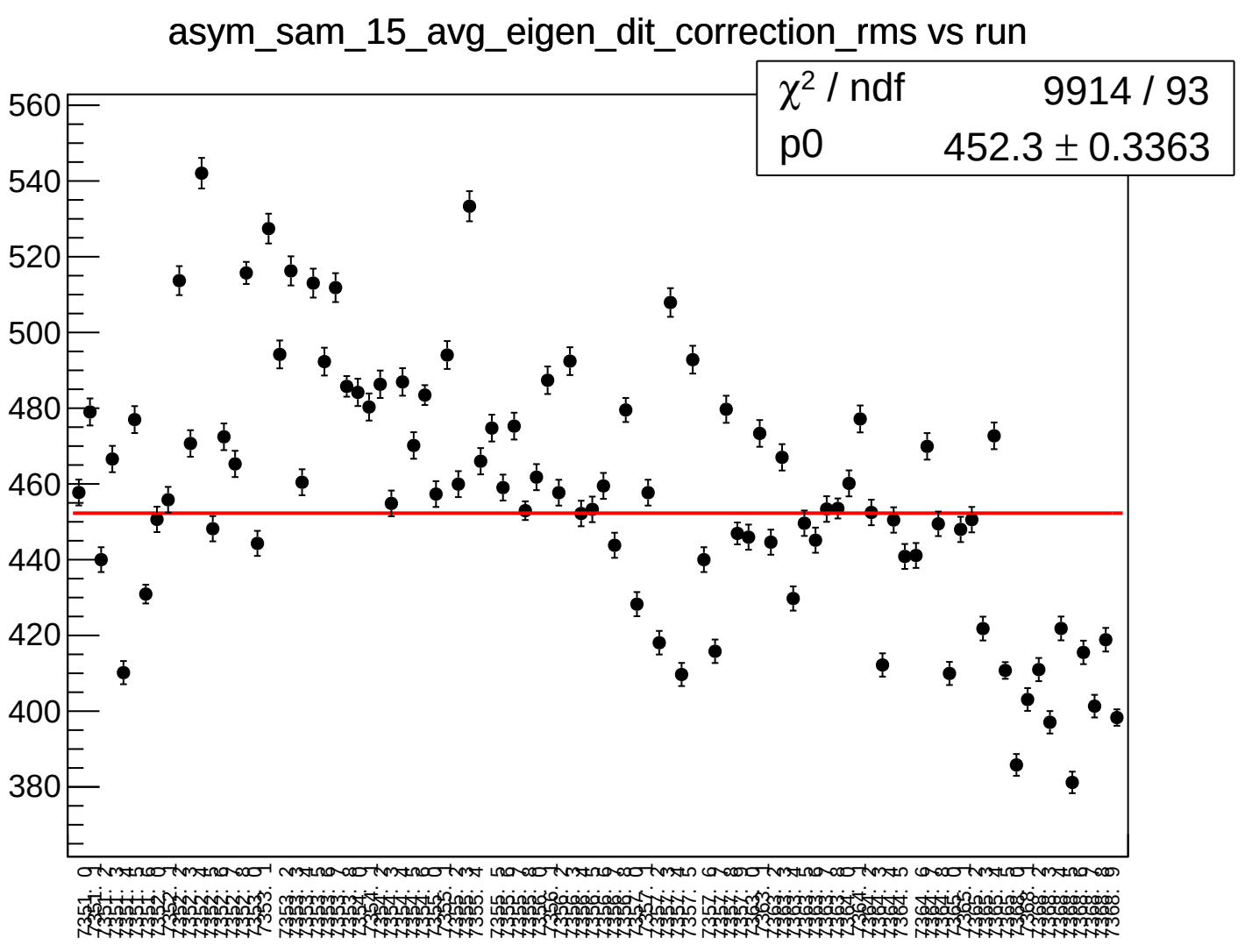

asym_sam_15_avg_dit_correction_rms vs run
χ² / ndf 9913 / 93
p0 452.3 ± 0.3363
560
540
520
500
480
460
440
420
400
380

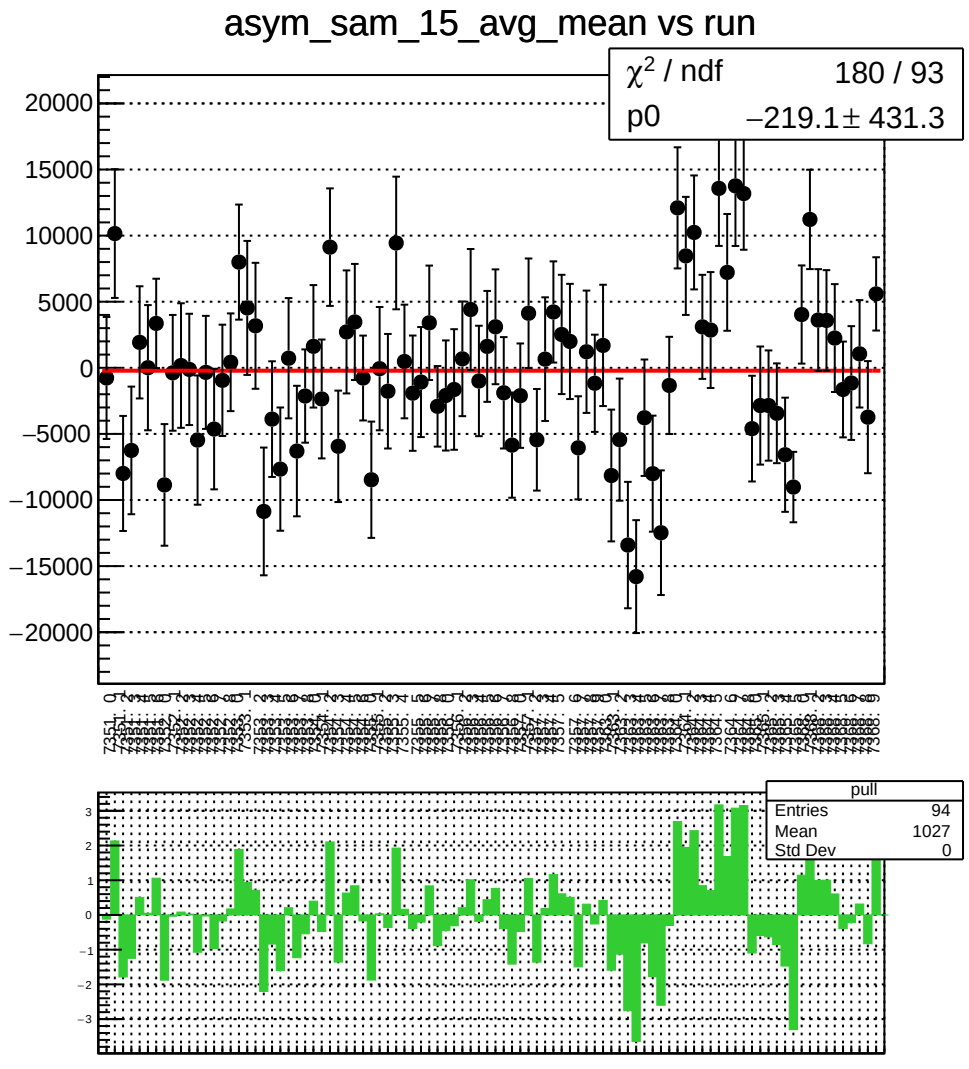

eigen_dit_asym_sam_15_avg_mean vs run
χ² / ndf 114.3 / 93
p0 −118.7 ± 117.4
4000
2000
0
−2000
−4000
pull
Entries 94
Mean −107.8
Std Dev 0
pull1D
Entries 94
Mean 0.0174
Std Dev 1.103
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

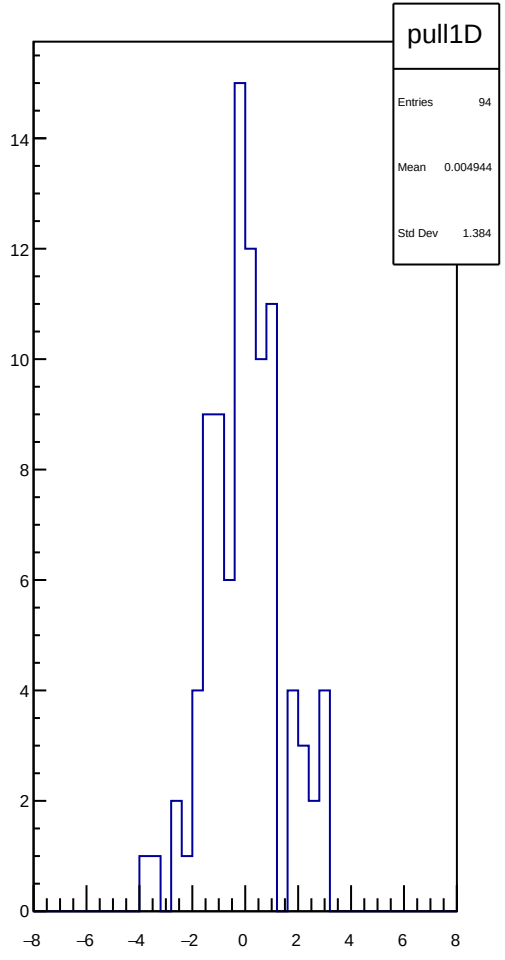

eigen_dit_asym_sam_15_avg_rms vs run
χ² / ndf 2.503e+04 / 93
p0 111.2 ± 0.083
200
180
160
140
120
100
80

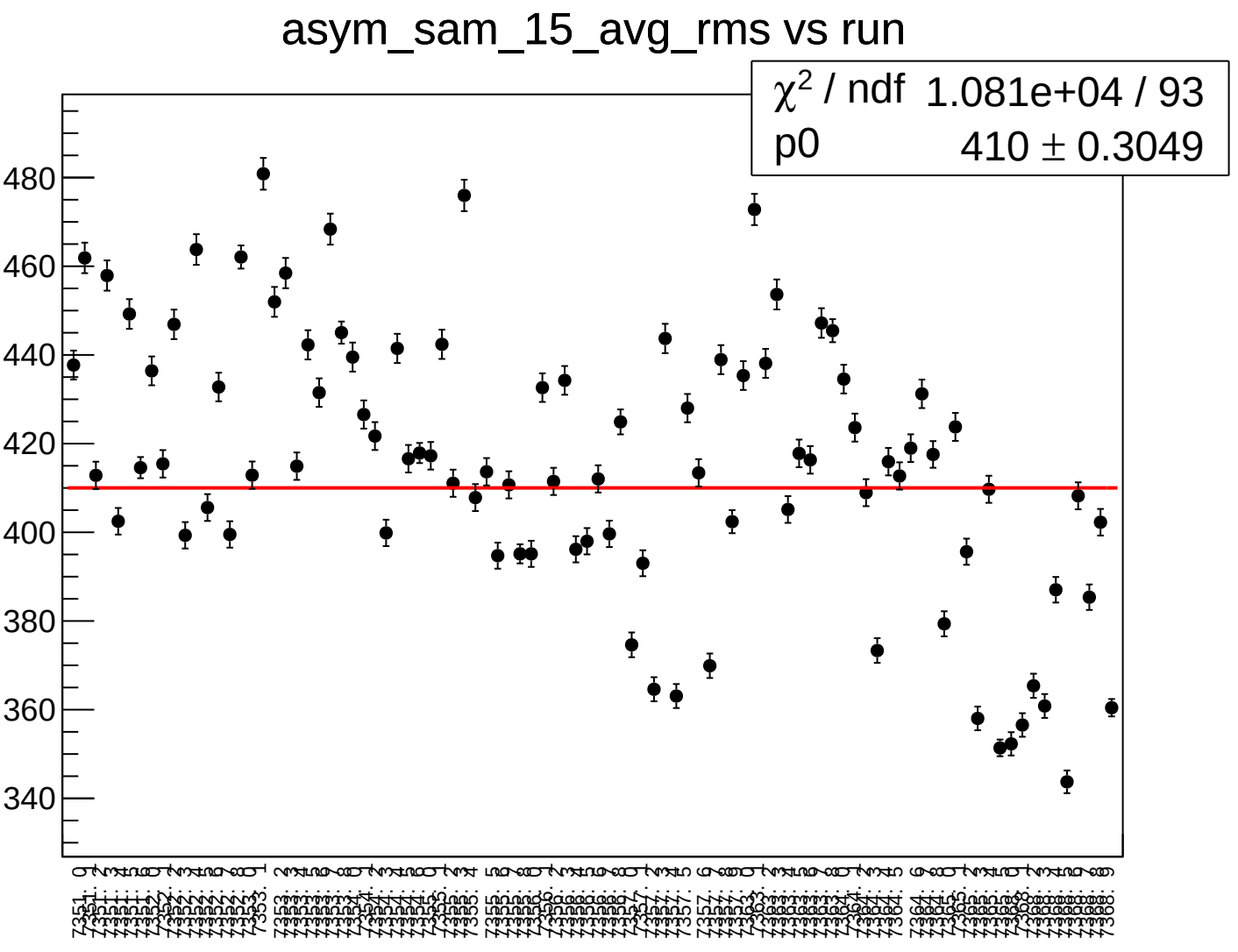

asym_sam_15_avg_eigen_dit_correction_mean vs run
χ² / ndf 180.1 / 93
p0 170.2 ± 475.6
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 94
Mean 1078
Std Dev 0
3
2
1
0
−1
−2
−3

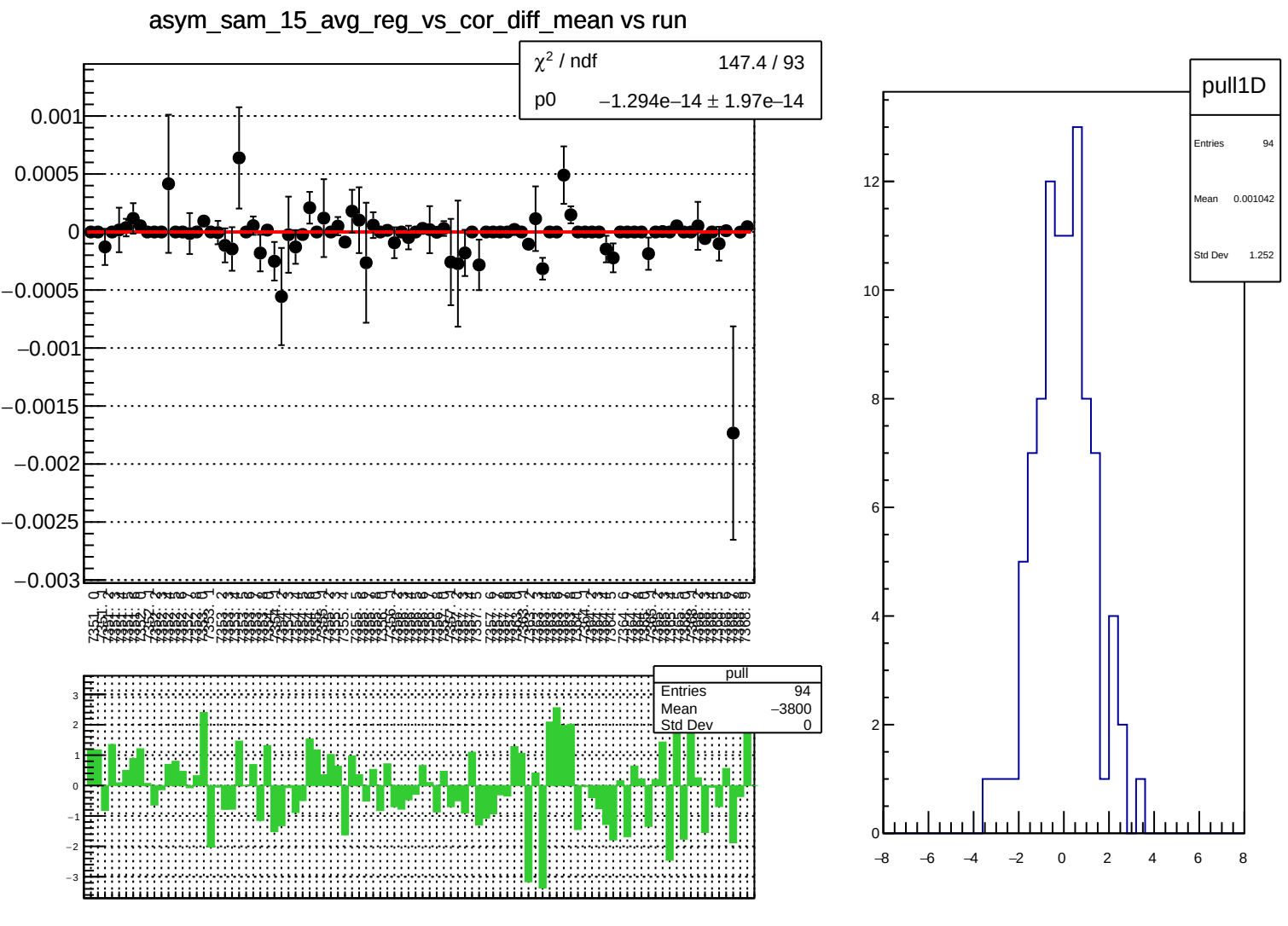

pull1D
Entries 94
Mean −0.004926
Std Dev 1.384
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

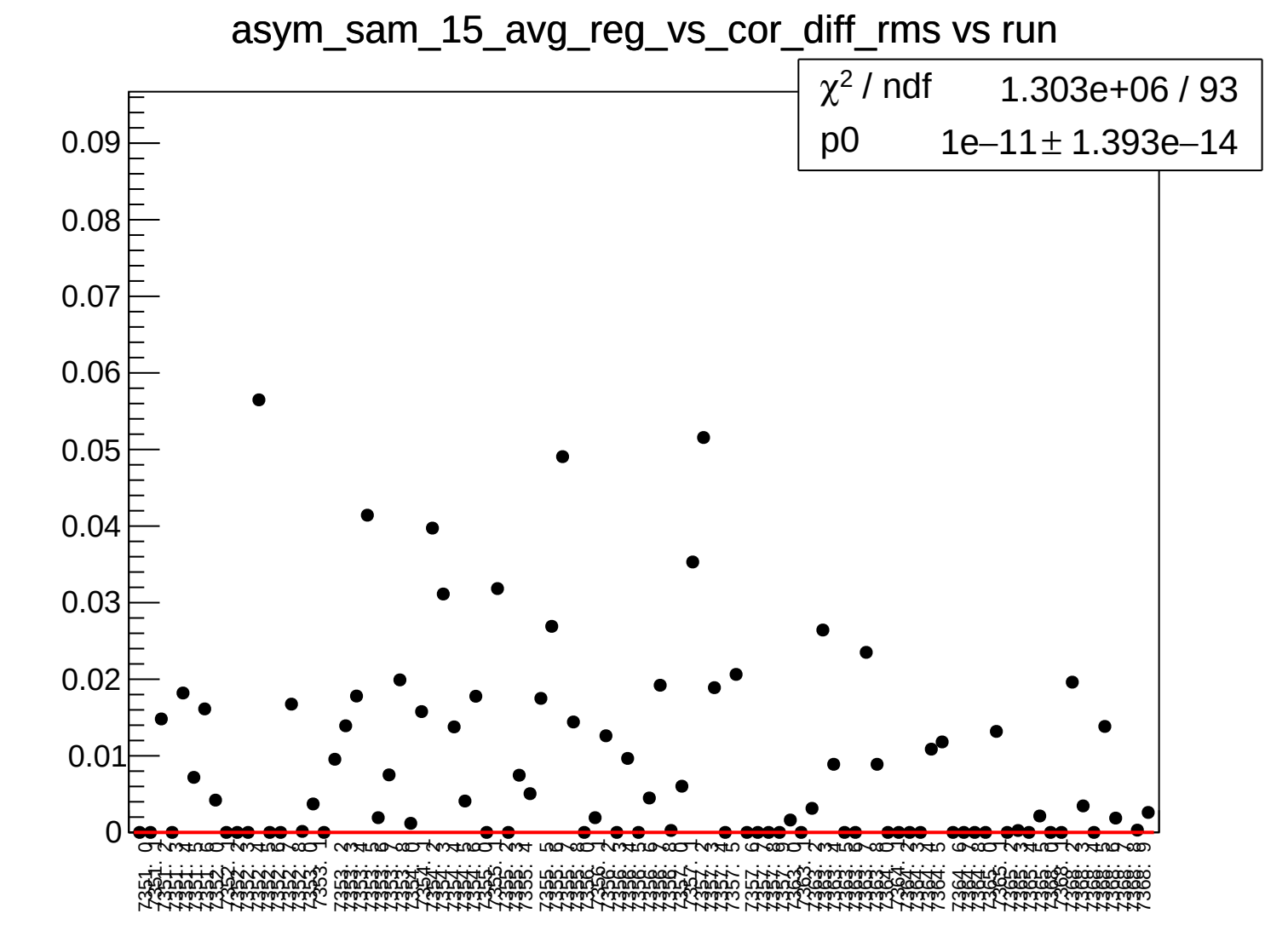

asym_sam_15_avg_eigen_dit_correction_rms vs run
χ² / ndf 9914 / 93
p0 452.3 ± 0.3363
560
540
520
500
480
460
440
420
400
380

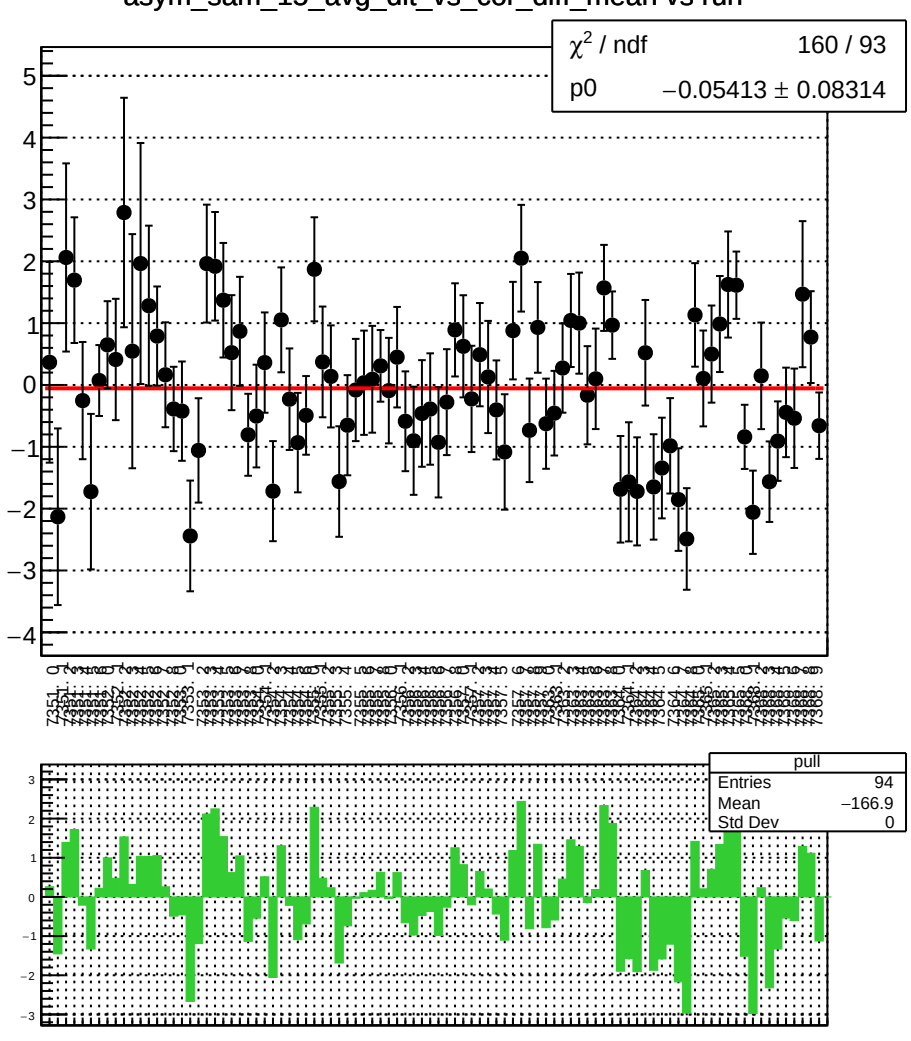

asym_sam_15_avg_mean vs run
χ² / ndf 180 / 93
p0 −219.1± 431.3
pull
Entries 94
Mean 1027
Std Dev 0

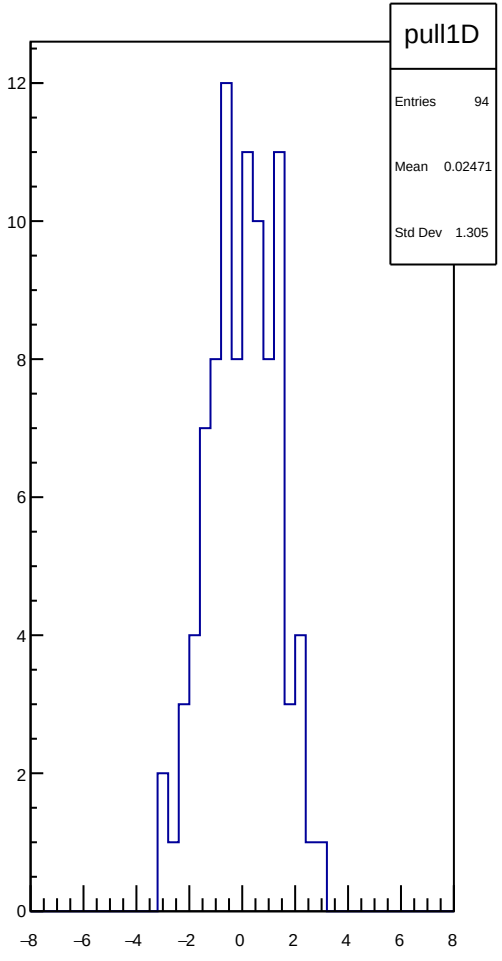

pull1D
Entries 94
Mean 0.004944
Std Dev 1.384

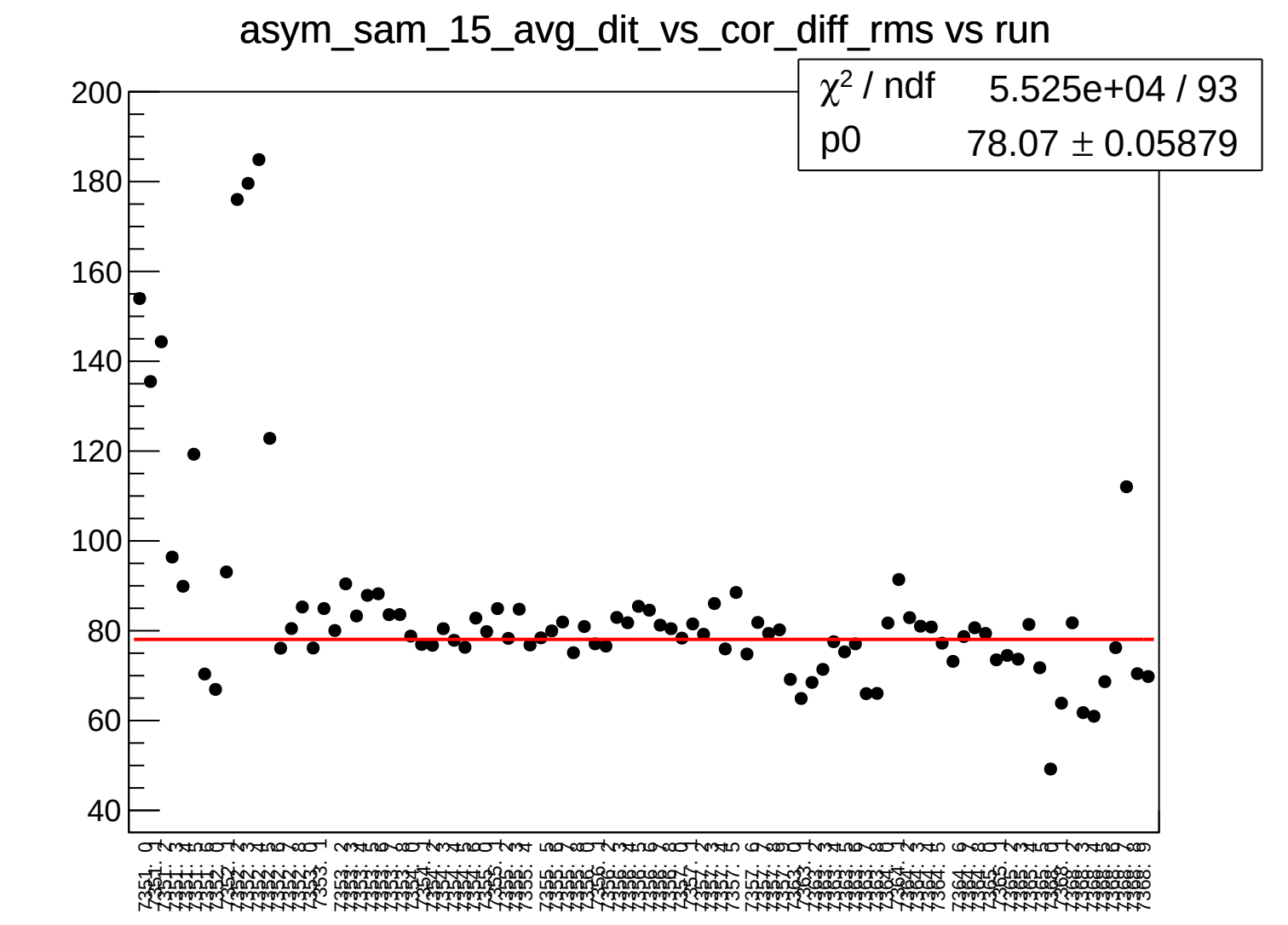

asym_sam_15_avg_rms vs run
χ^2 / ndf 1.081e+04 / 93
p0 410 ± 0.3049
480
460
440
420
400
380
360
340

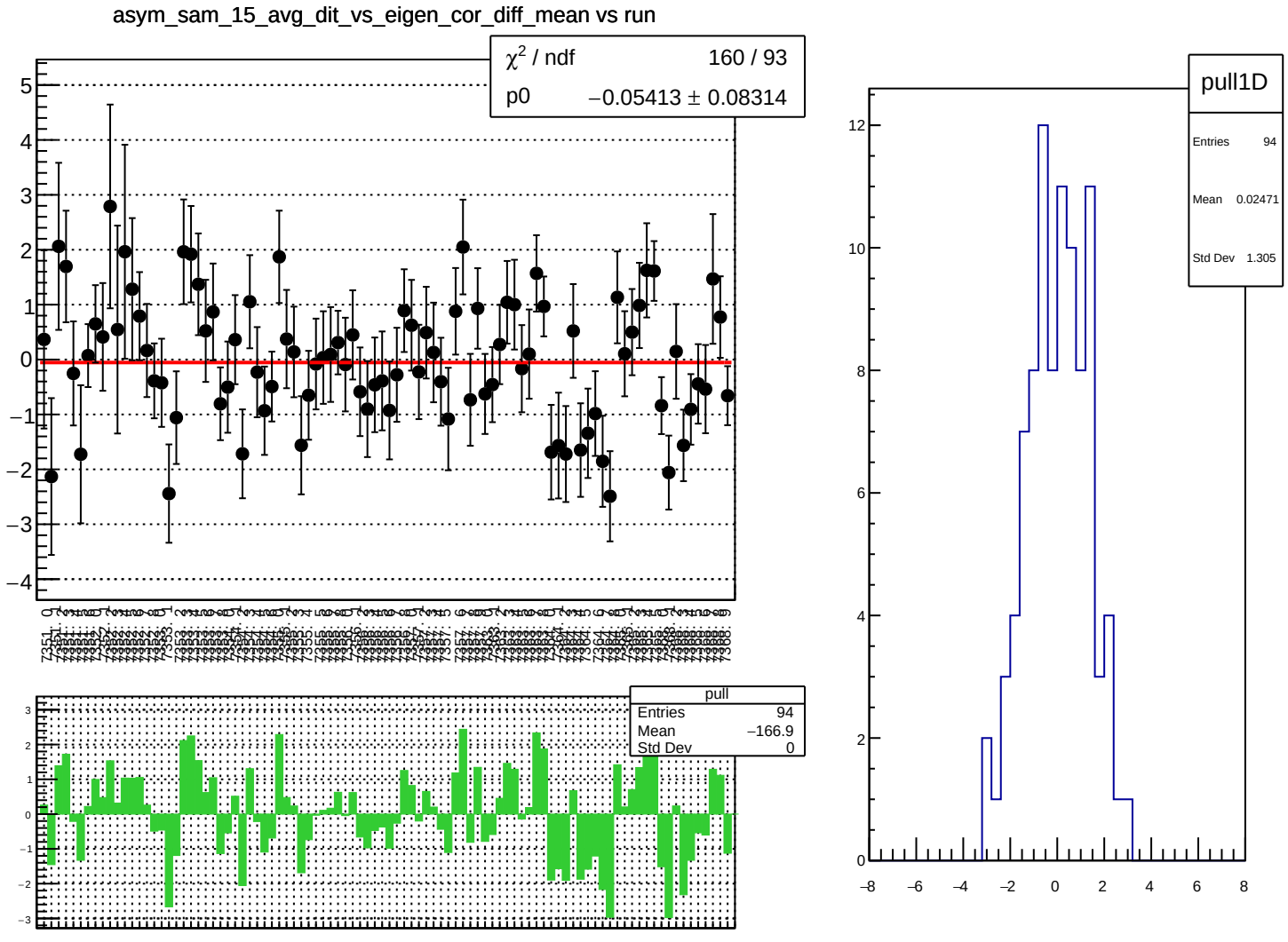

asym_sam_15_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 147.4 / 93
p0 −1.294e−14 ± 1.97e−14
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
−0.0025
−0.003
pull
Entries 94
Mean −3800
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.001042
Std Dev 1.252
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

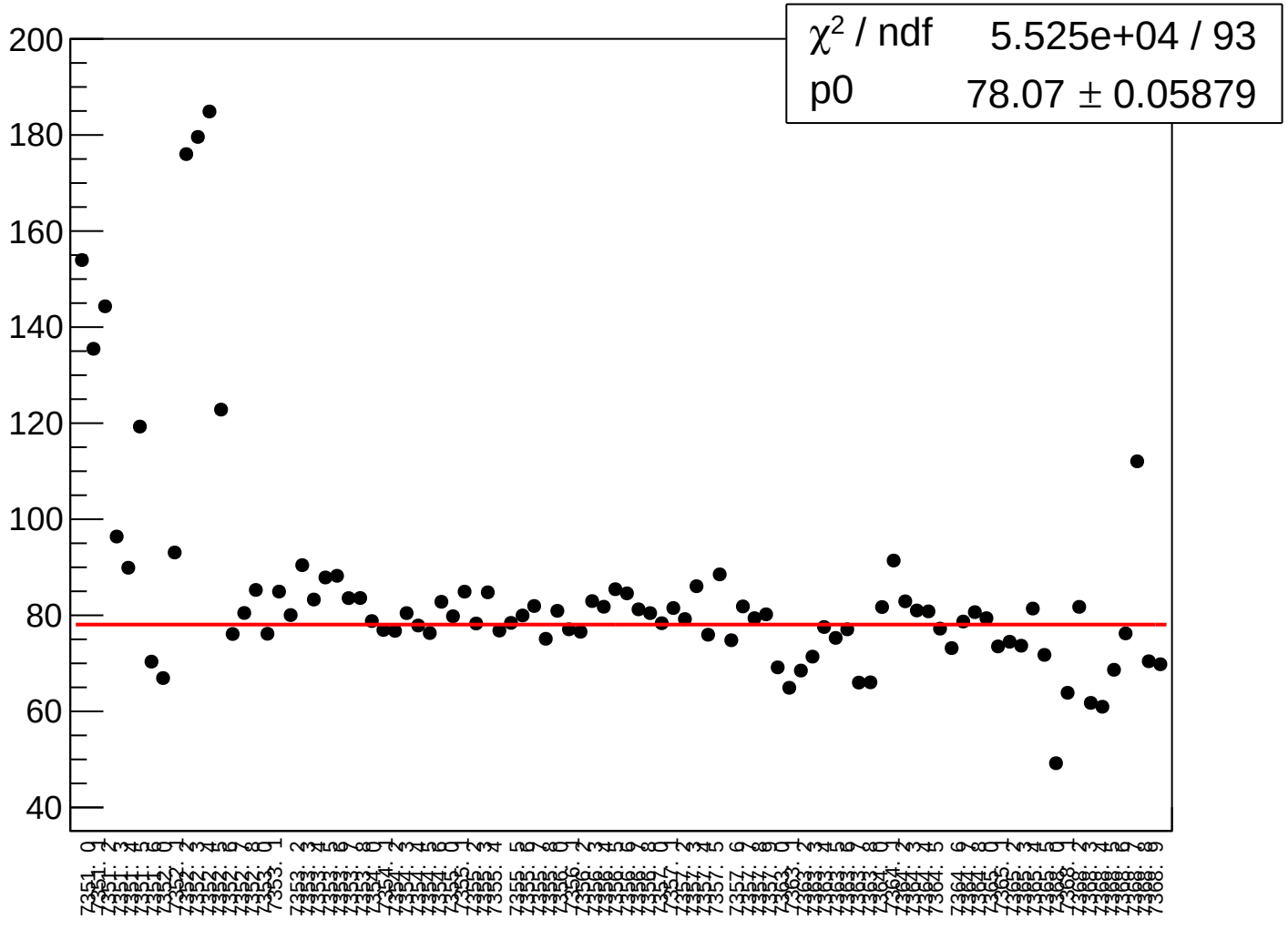

asym_sam_15_avg_reg_vs_cor_diff_rms vs run
χ^2 / ndf 1.303e+06 / 93
p0 1e−11 ± 1.393e−14
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

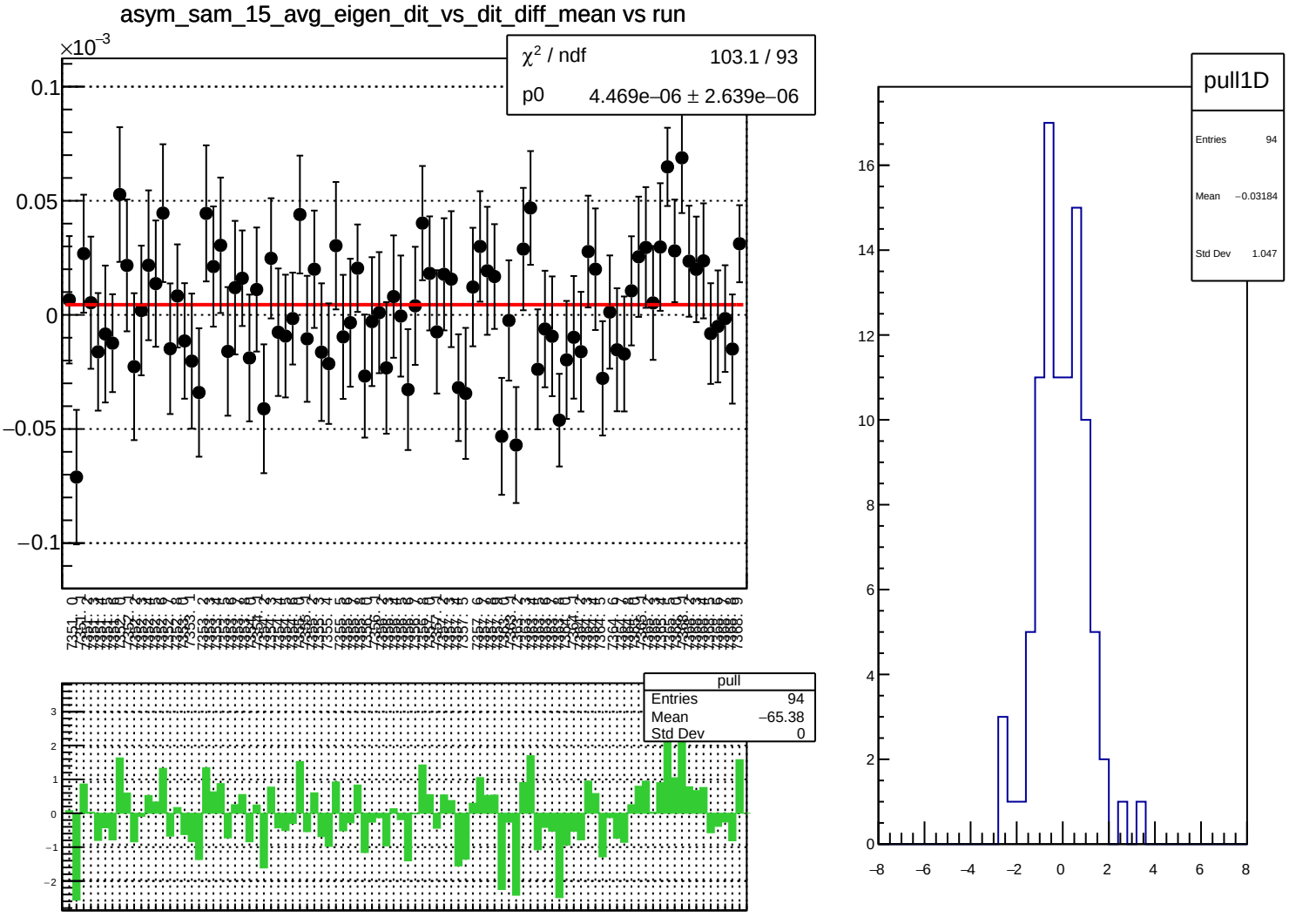

asym_sam_15_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 160 / 93
p0 −0.05413 ± 0.08314
pull
Entries 94
Mean −166.9
Std Dev 0

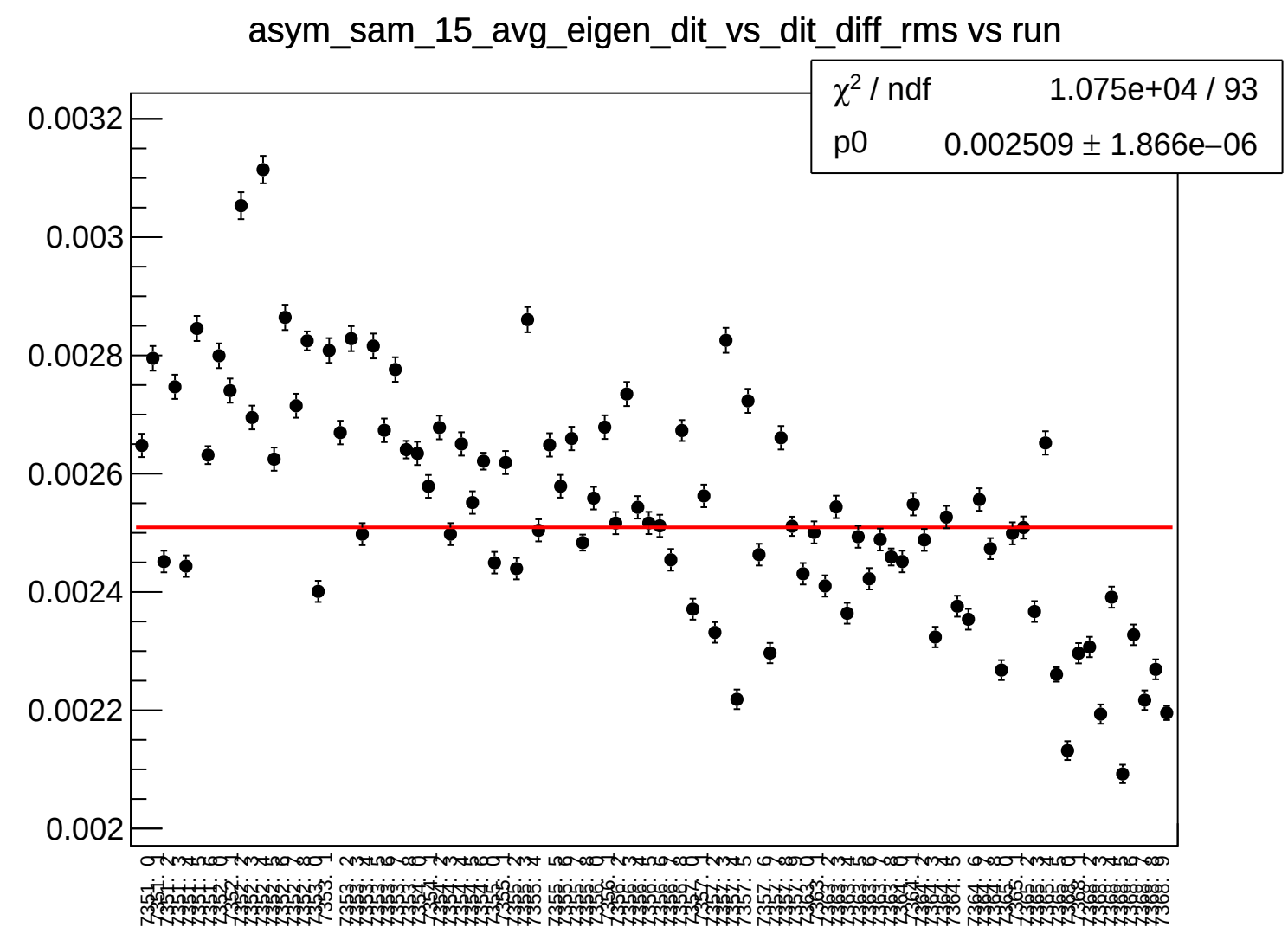

pull1D
Entries 94
Mean 0.02471
Std Dev 1.305

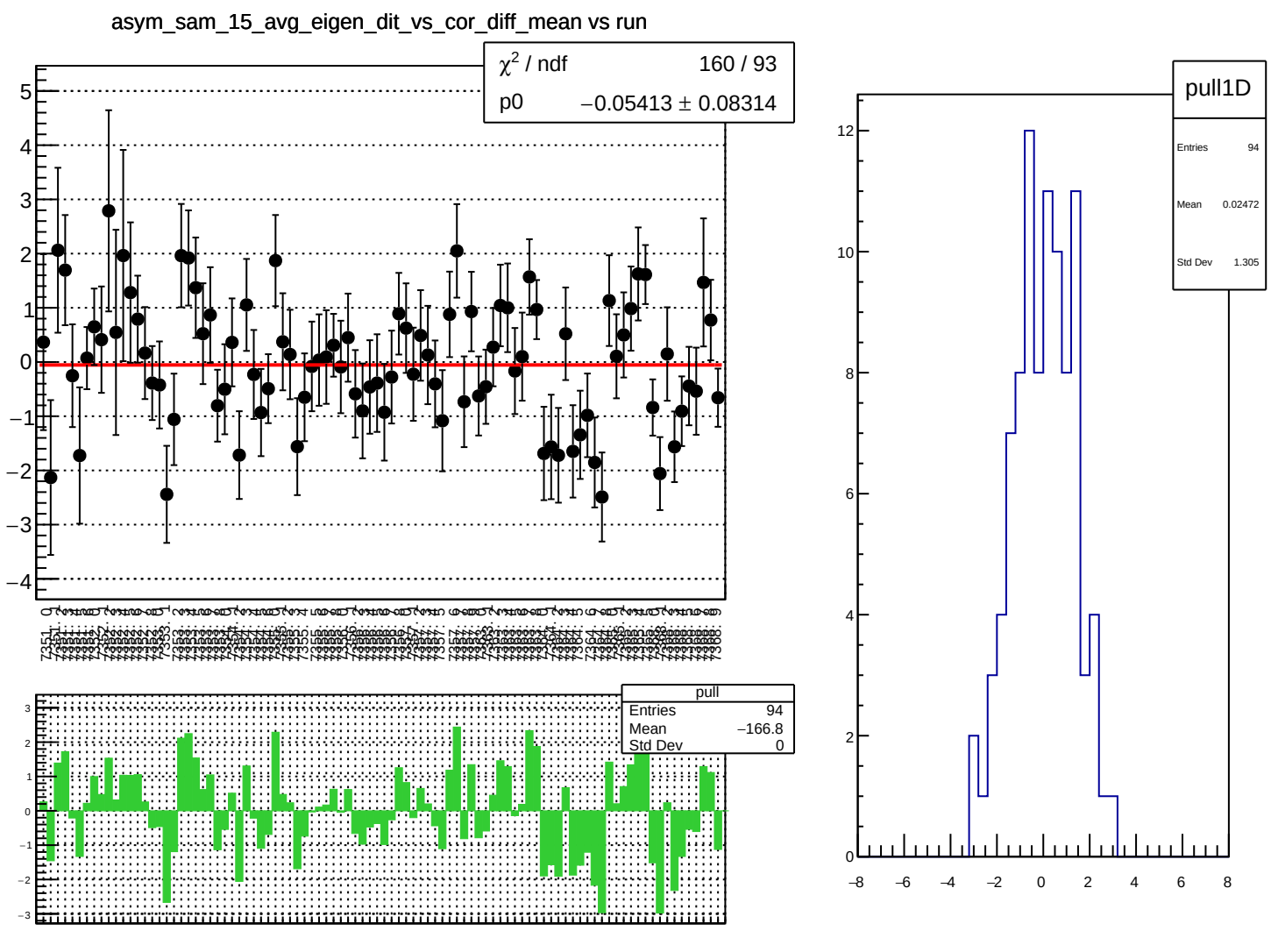

asym_sam_15_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.525e+04 / 93
p0 78.07 ± 0.05879
200
180
160
140
120
100
80
60
40

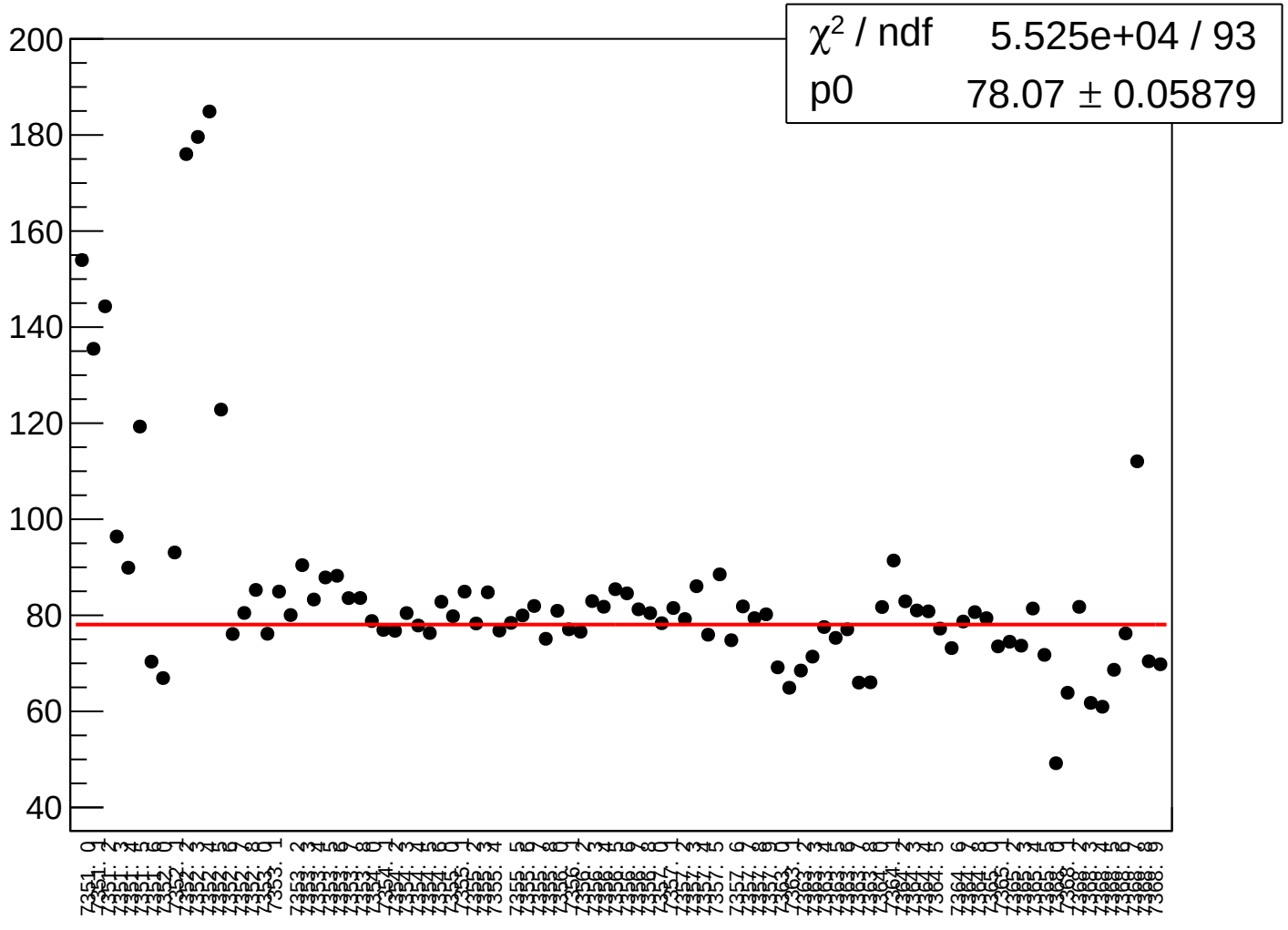

asym_sam_15_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 160 / 93
p0 −0.05413 ± 0.08314
pull
Entries 94
Mean −166.9
Std Dev 0
pull1D
Entries 94
Mean 0.02471
Std Dev 1.305

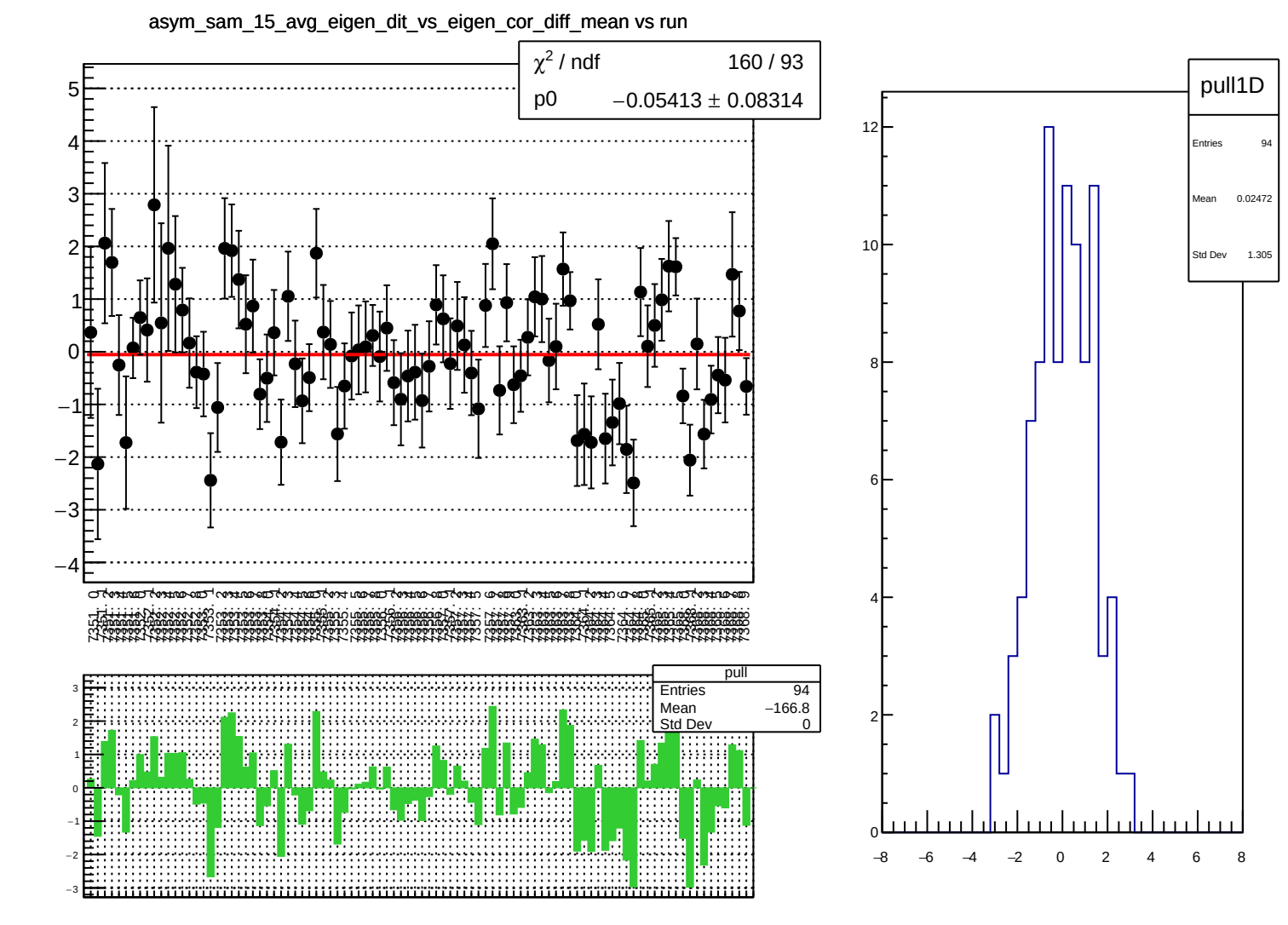

asym_sam_15_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.525e+04 / 93
p0 78.07 ± 0.05879
200
180
160
140
120
100
80
60
40

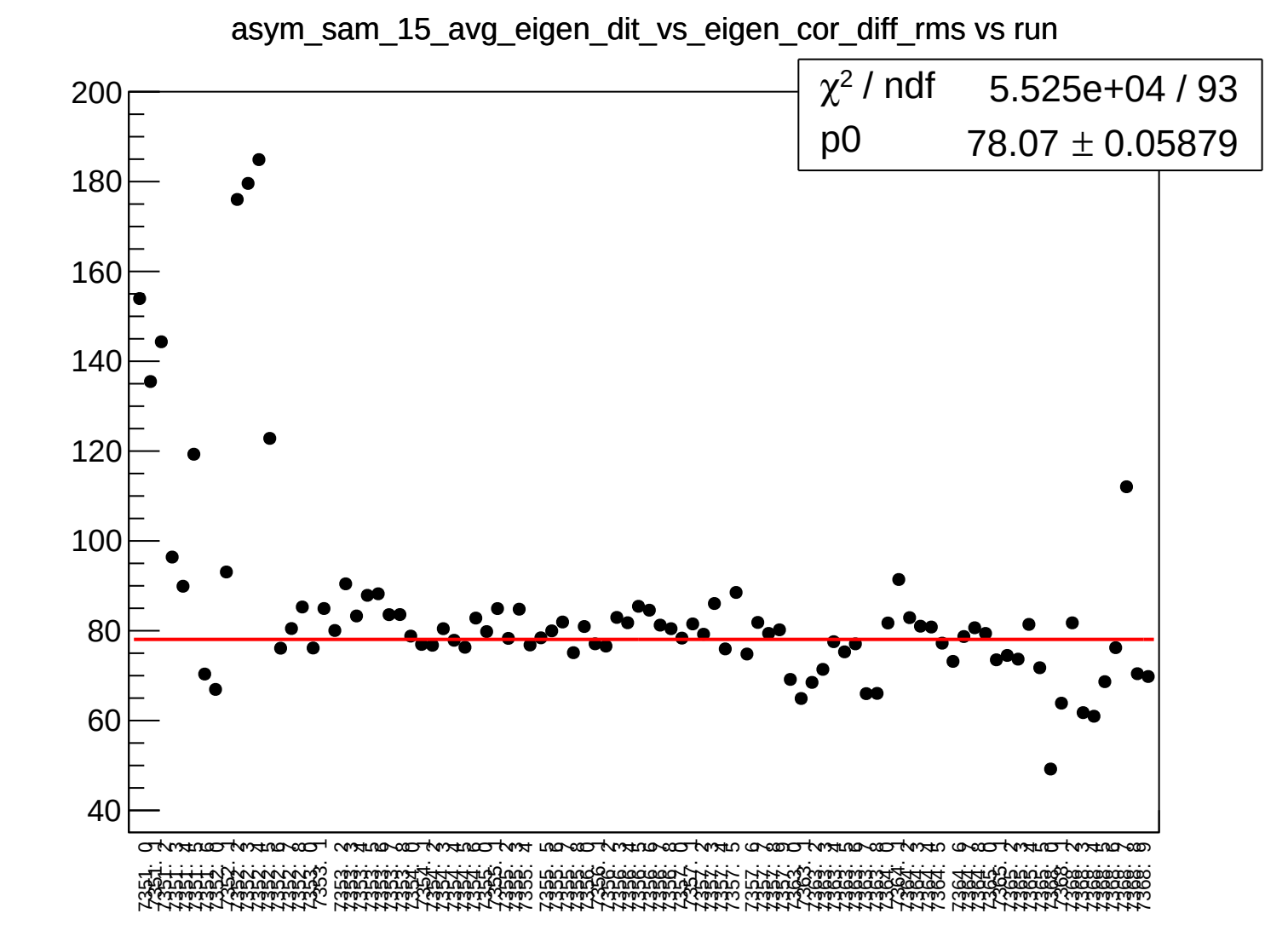

asym_sam_15_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 103.1 / 93
p0 4.469e−06 ± 2.639e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 94
Mean −65.38
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.03184
Std Dev 1.047
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

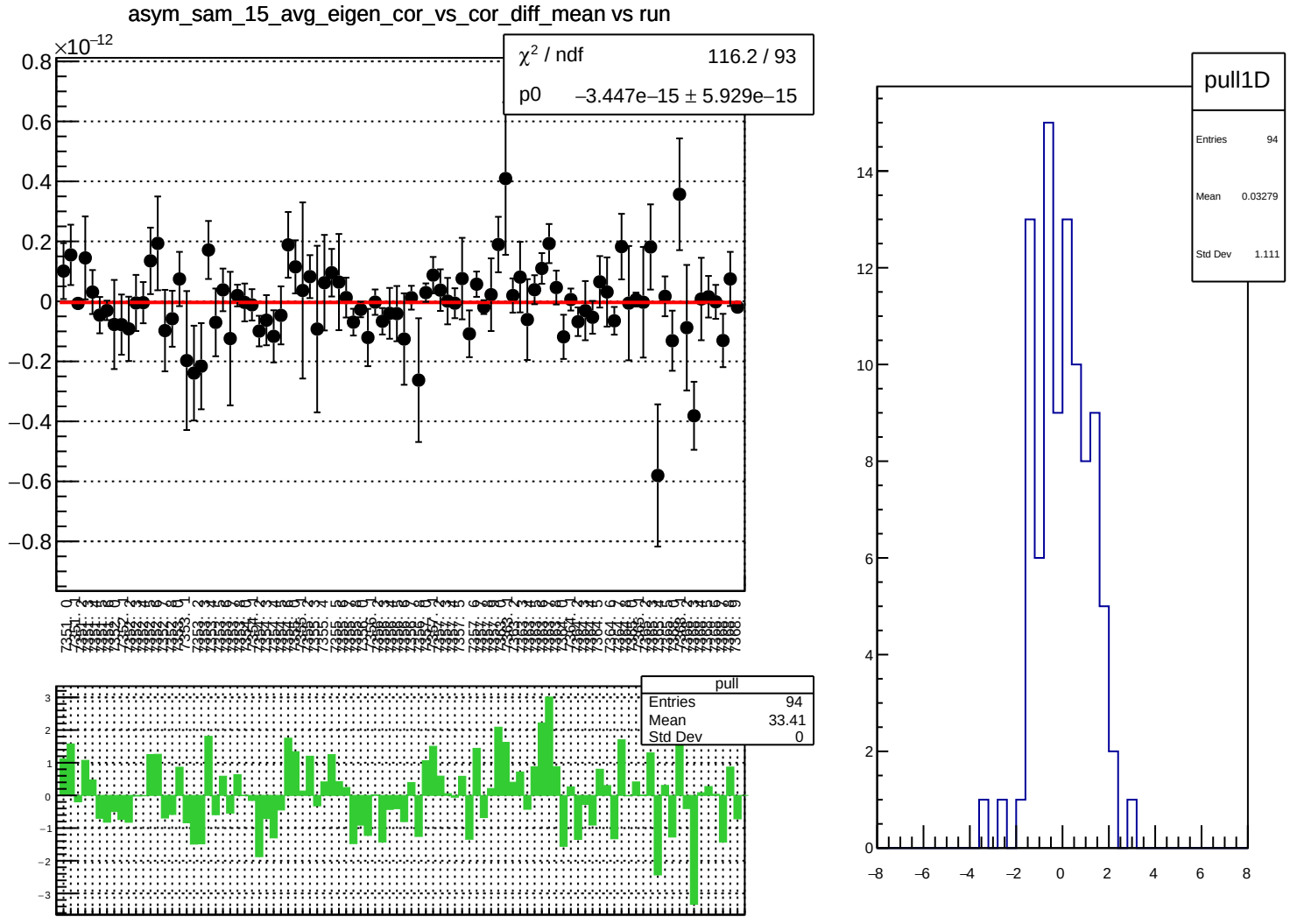

asym_sam_15_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.075e+04 / 93
p0 0.002509 ± 1.866e−06
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002

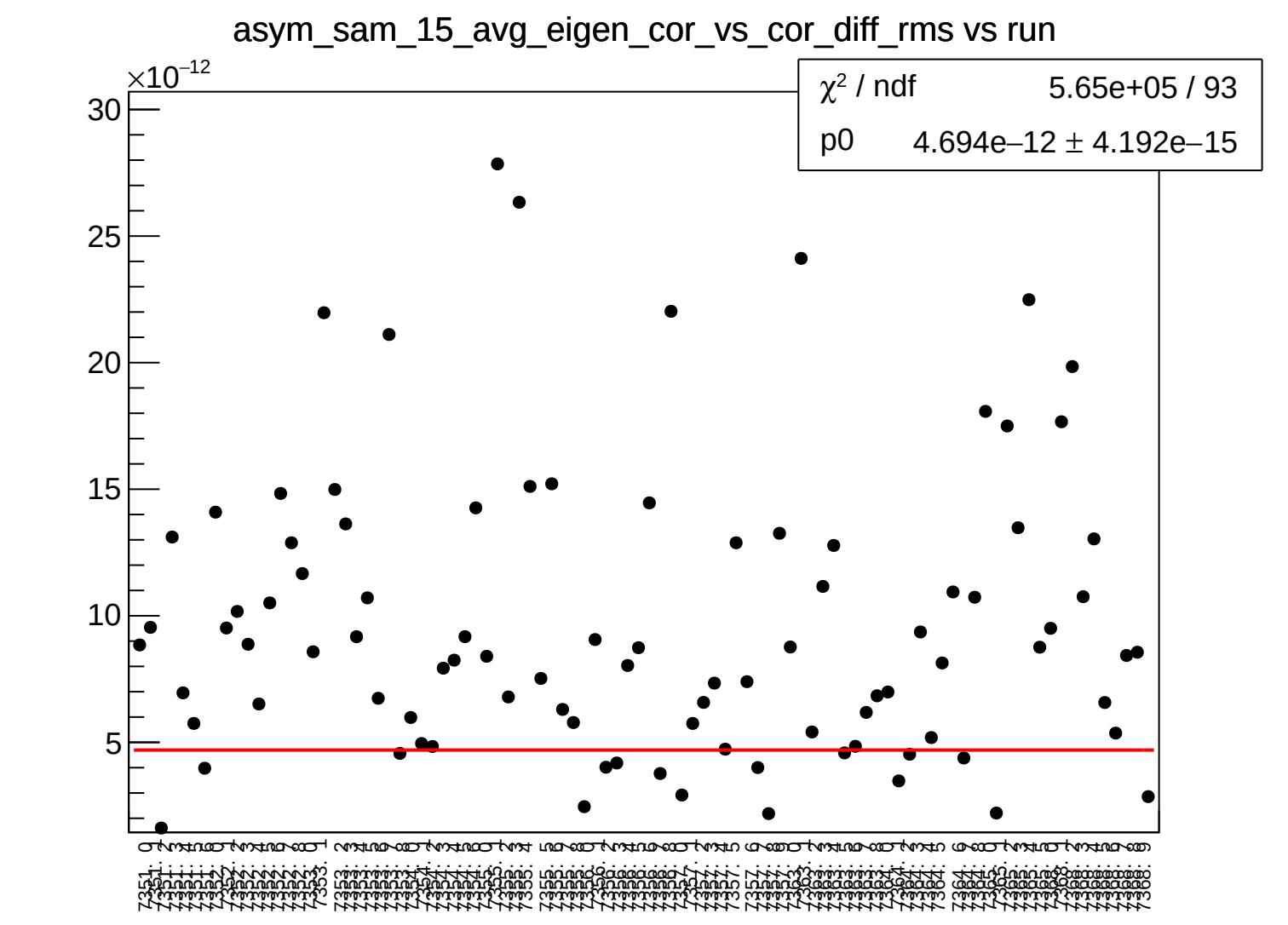

asym_sam_15_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 160 / 93
p0 −0.05413 ± 0.08314
pull
Entries 94
Mean −166.8
Std Dev 0
pull1D
Entries 94
Mean 0.02472
Std Dev 1.305

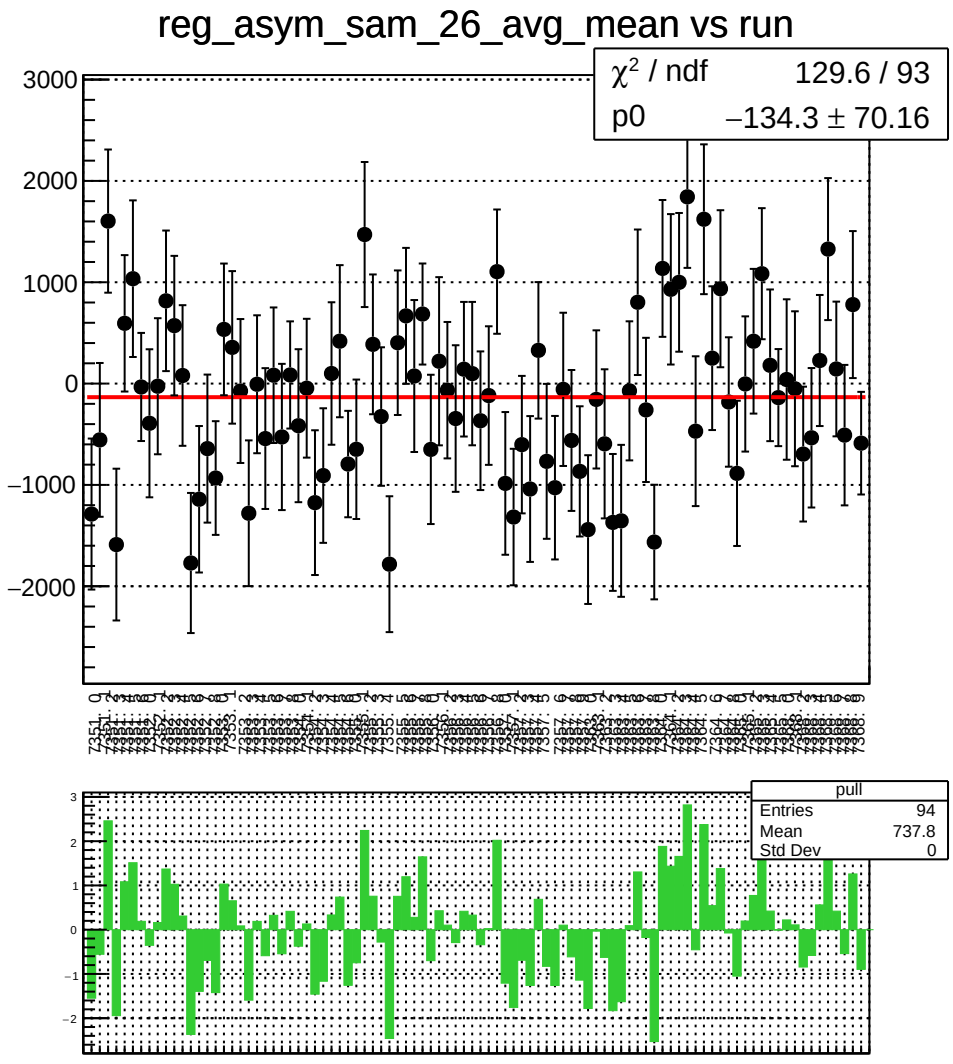

asym_sam_15_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.525e+04 / 93
p0 78.07 ± 0.05879
200
180
160
140
120
100
80
60
40

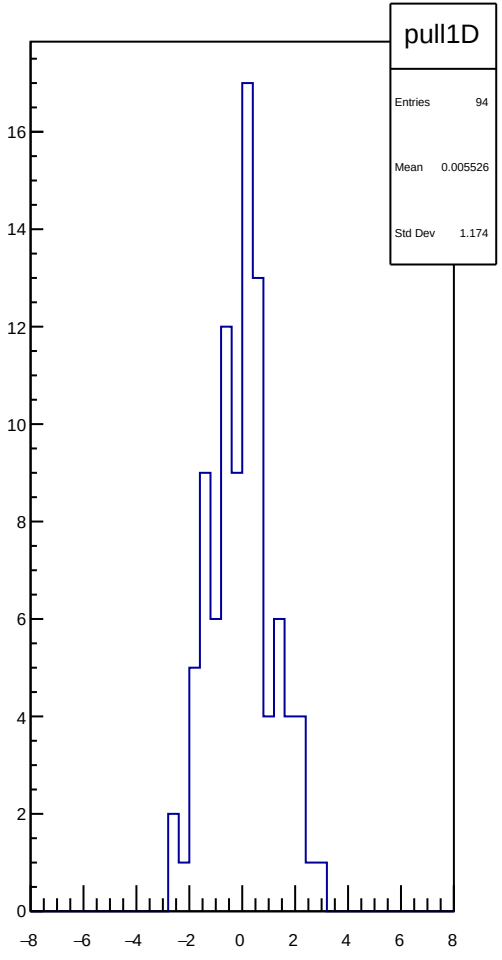

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 160 / 93
p0 −0.05413 ± 0.08314
pull
Entries 94
Mean −166.8
Std Dev 0
pull1D
Entries 94
Mean 0.02472
Std Dev 1.305

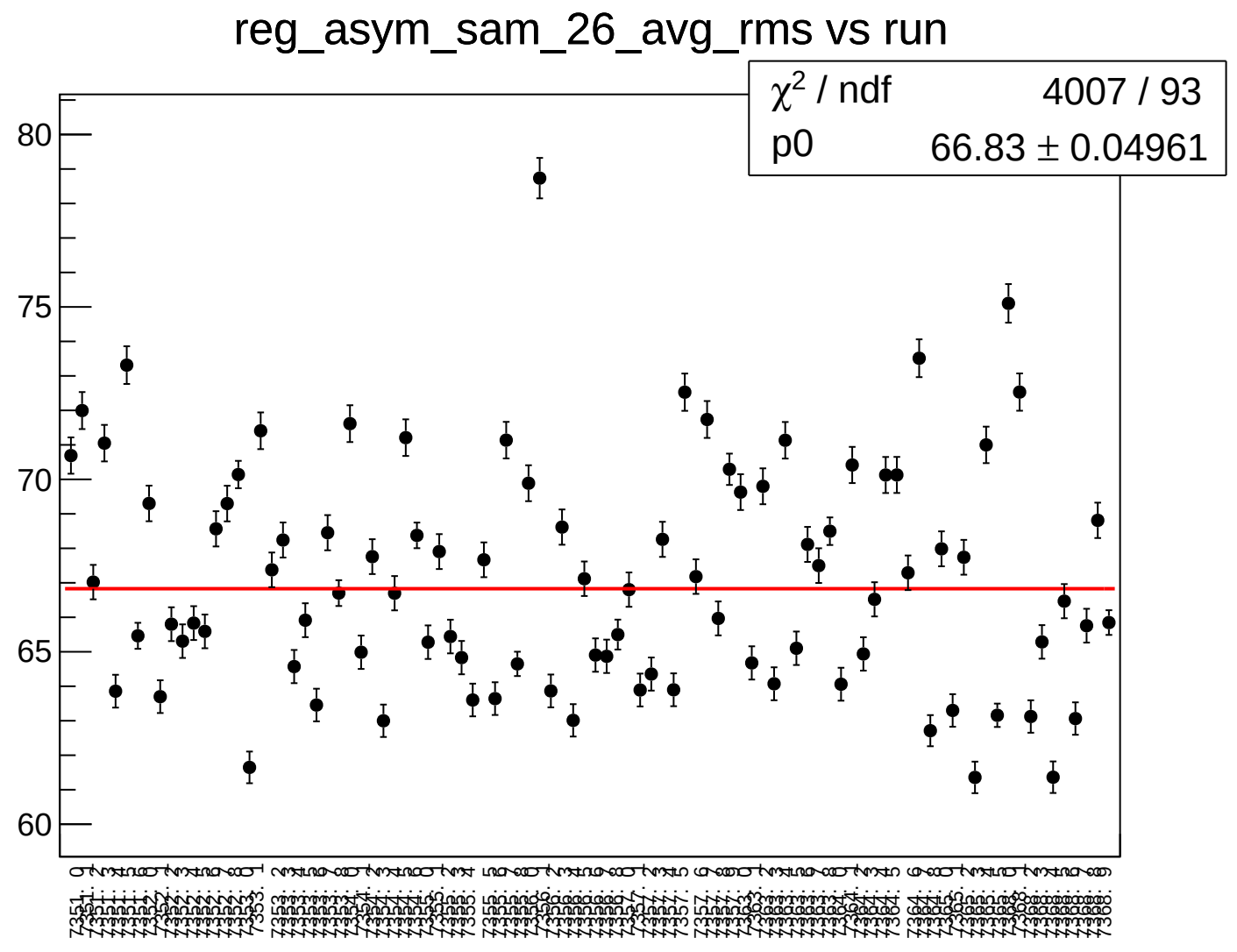

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.525e+04 / 93
p0 78.07 ± 0.05879
200
180
160
140
120
100
80
60
40

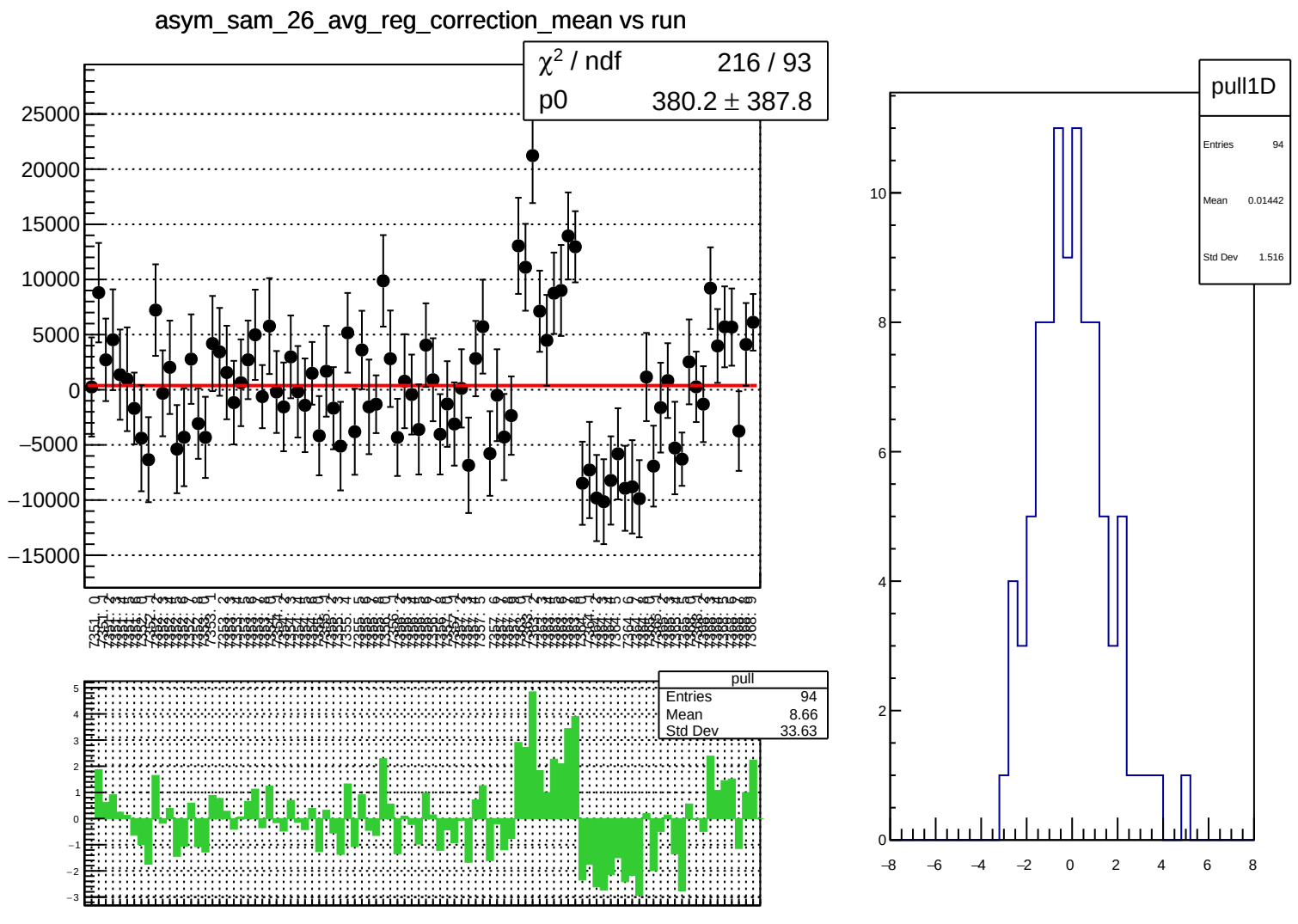

asym_sam_15_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 116.2 / 93
p0 −3.447e−15 ± 5.929e−15
pull
Entries 94
Mean 33.41
Std Dev 0
pull1D
Entries 94
Mean 0.03279
Std Dev 1.111

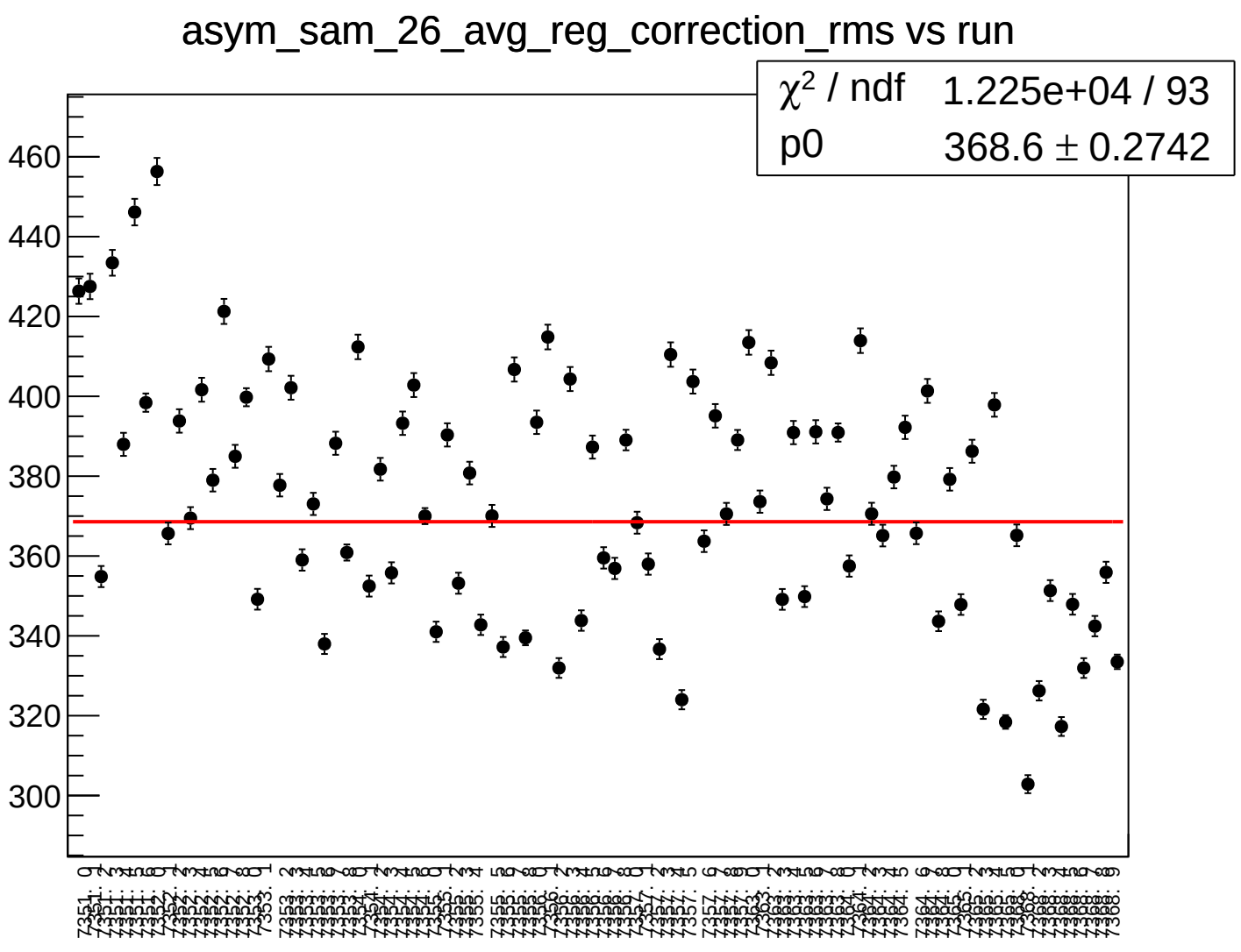

asym_sam_15_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
30
25
20
15
10
5
χ² / ndf 5.65e+05 / 93
p0 4.694e−12 ± 4.192e−15

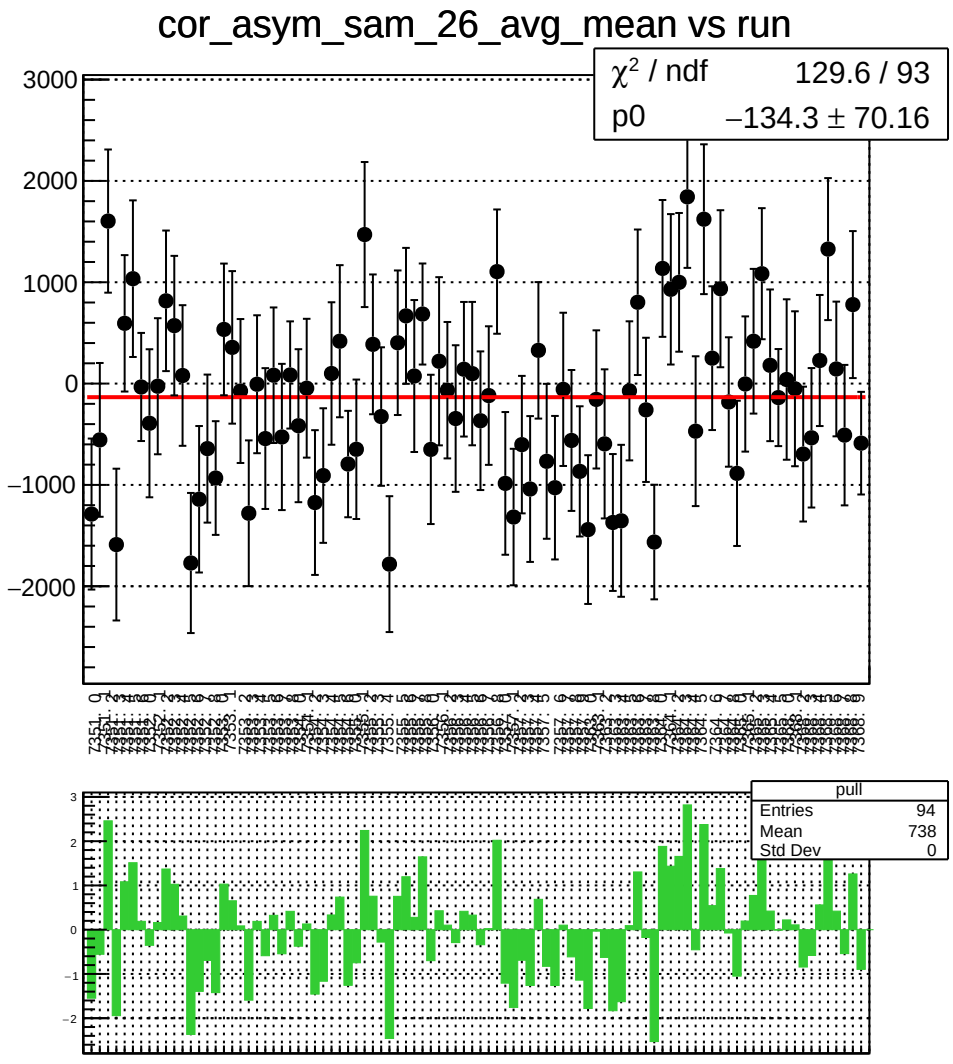

reg_asym_sam_26_avg_mean vs run
χ² / ndf 129.6 / 93
p0 −134.3 ± 70.16
3000
2000
1000
0
−1000
−2000
pull
Entries 94
Mean 737.8
Std Dev 0
3
2
1
0
−1
−2

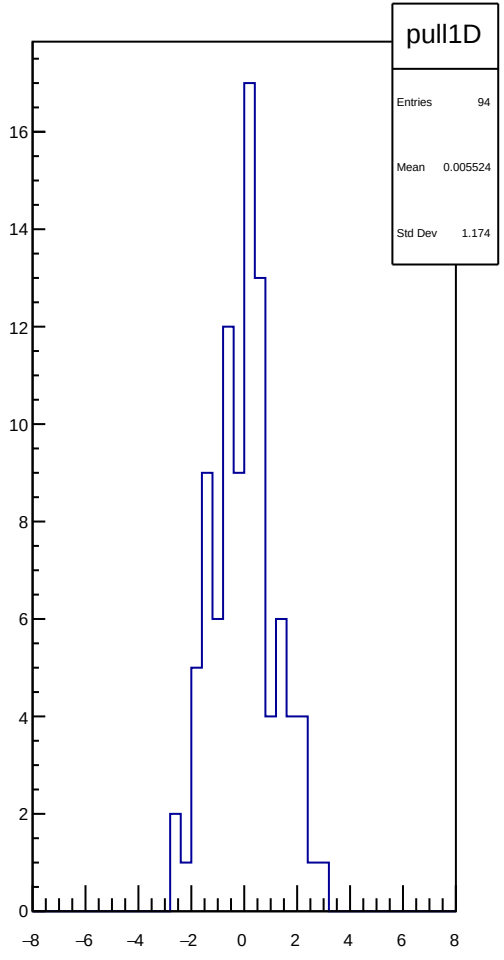

pull1D
Entries 94
Mean 0.005526
Std Dev 1.174
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

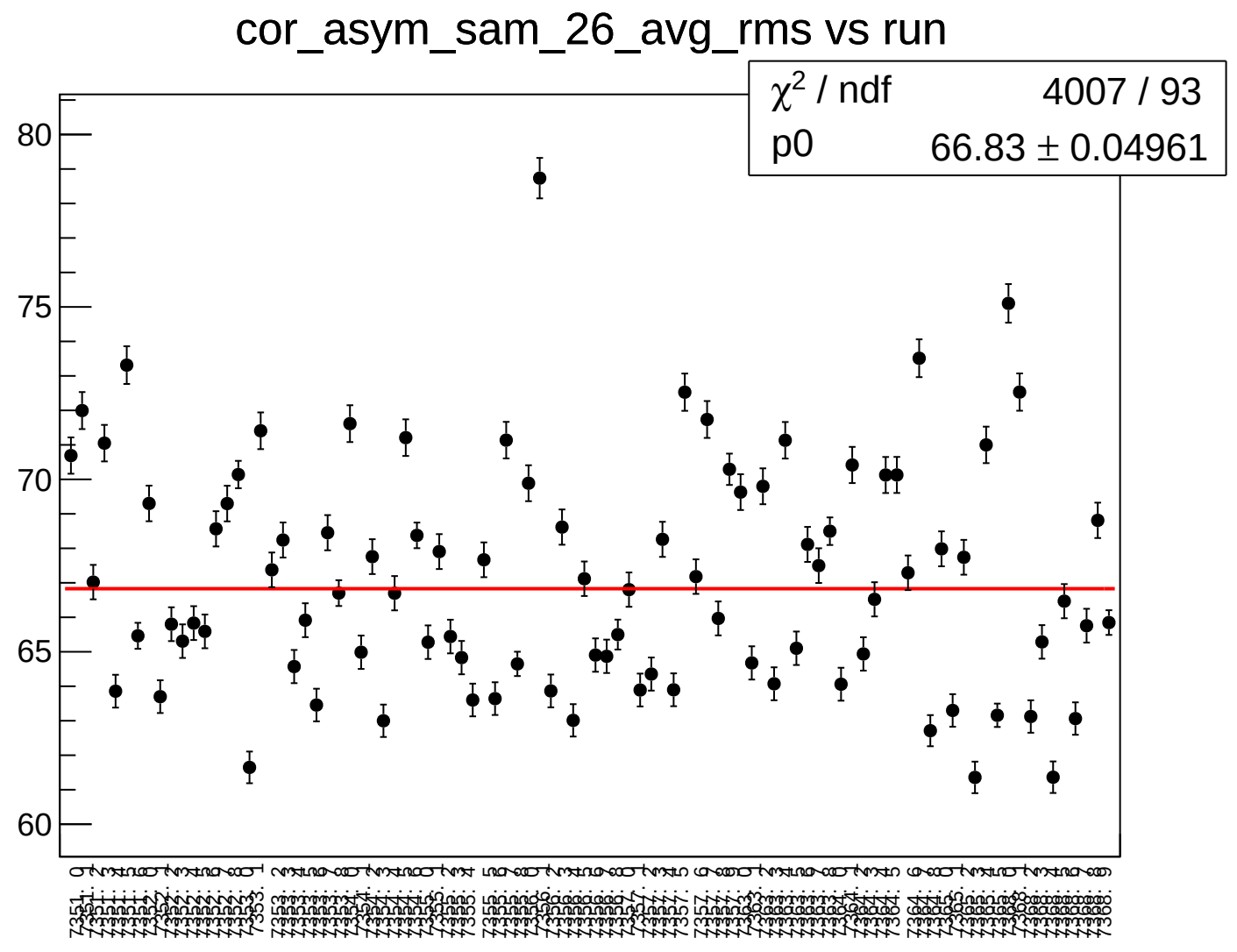

reg_asym_sam_26_avg_rms vs run
χ² / ndf 4007 / 93
p0 66.83 ± 0.04961
80
75
70
65
60

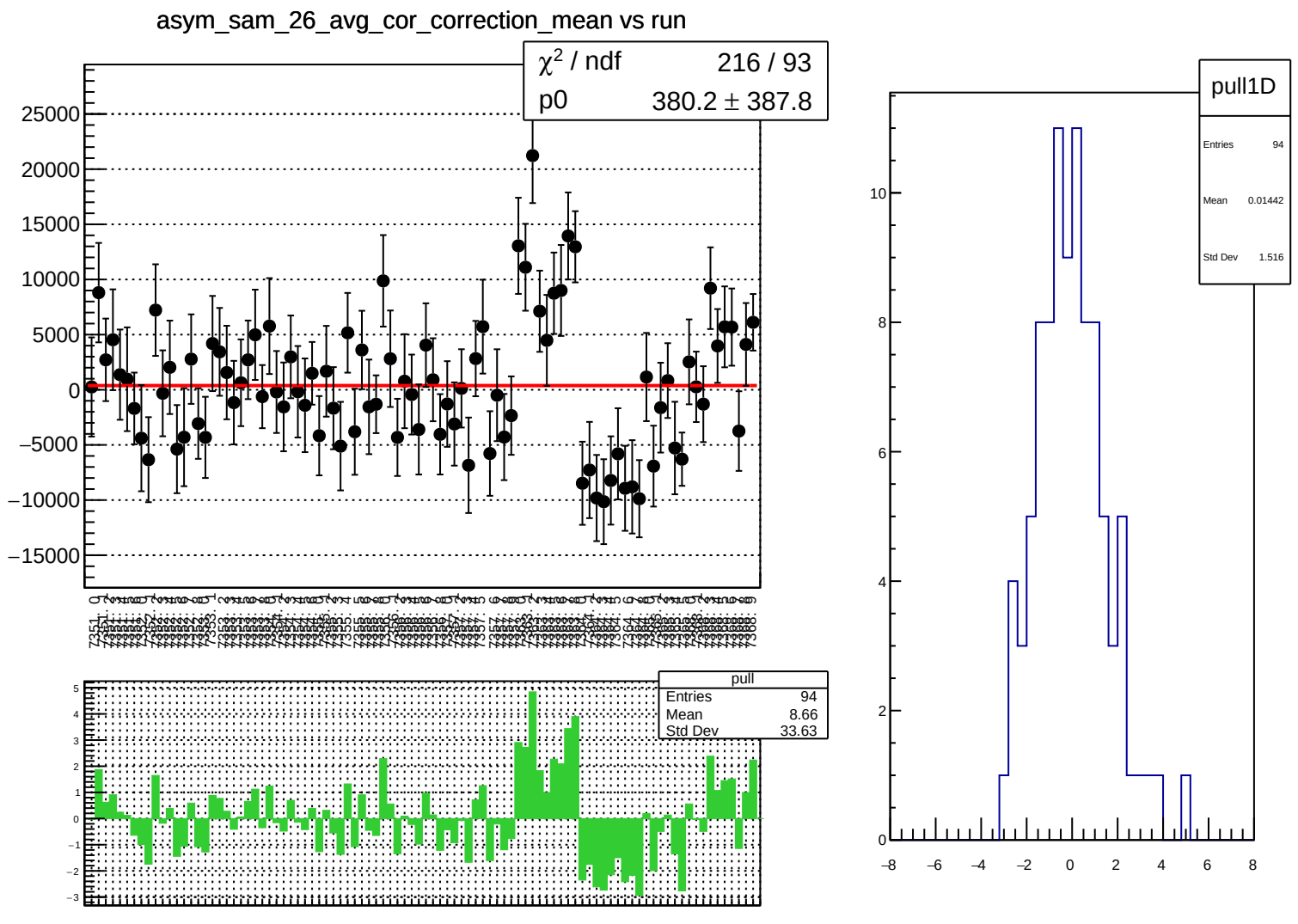

asym_sam_26_avg_reg_correction_mean vs run
χ² / ndf 216 / 93
p0 380.2 ± 387.8
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean 8.66
Std Dev 33.63
5
4
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.01442
Std Dev 1.516
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

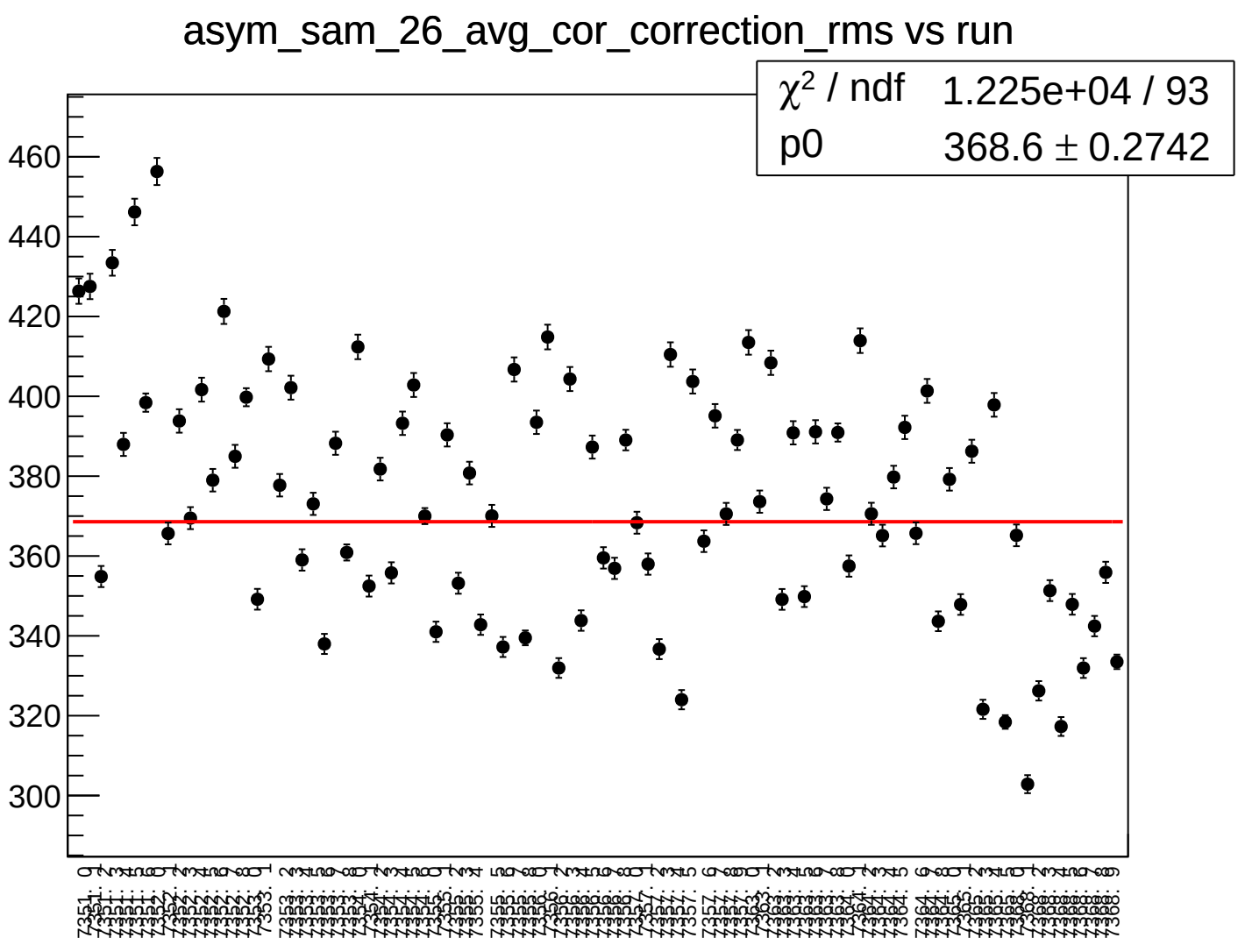

asym_sam_26_avg_reg_correction_rms vs run
χ² / ndf 1.225e+04 / 93
p0 368.6 ± 0.2742
460
440
420
400
380
360
340
320
300

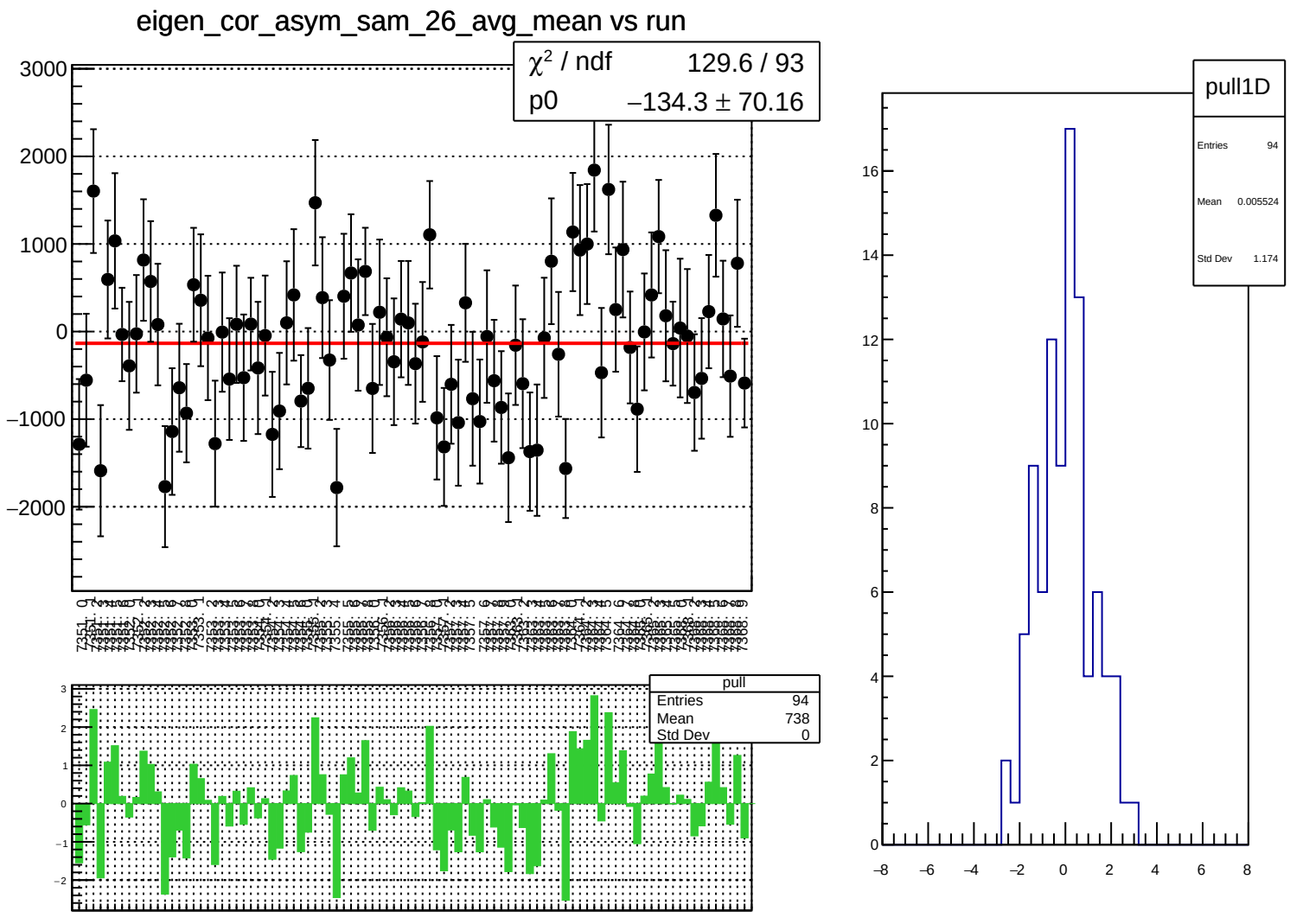

cor_asym_sam_26_avg_mean vs run
χ² / ndf 129.6 / 93
p0 −134.3 ± 70.16
3000
2000
1000
0
−1000
−2000
pull
Entries 94
Mean 738
Std Dev 0
3
2
1
0
−1
−2

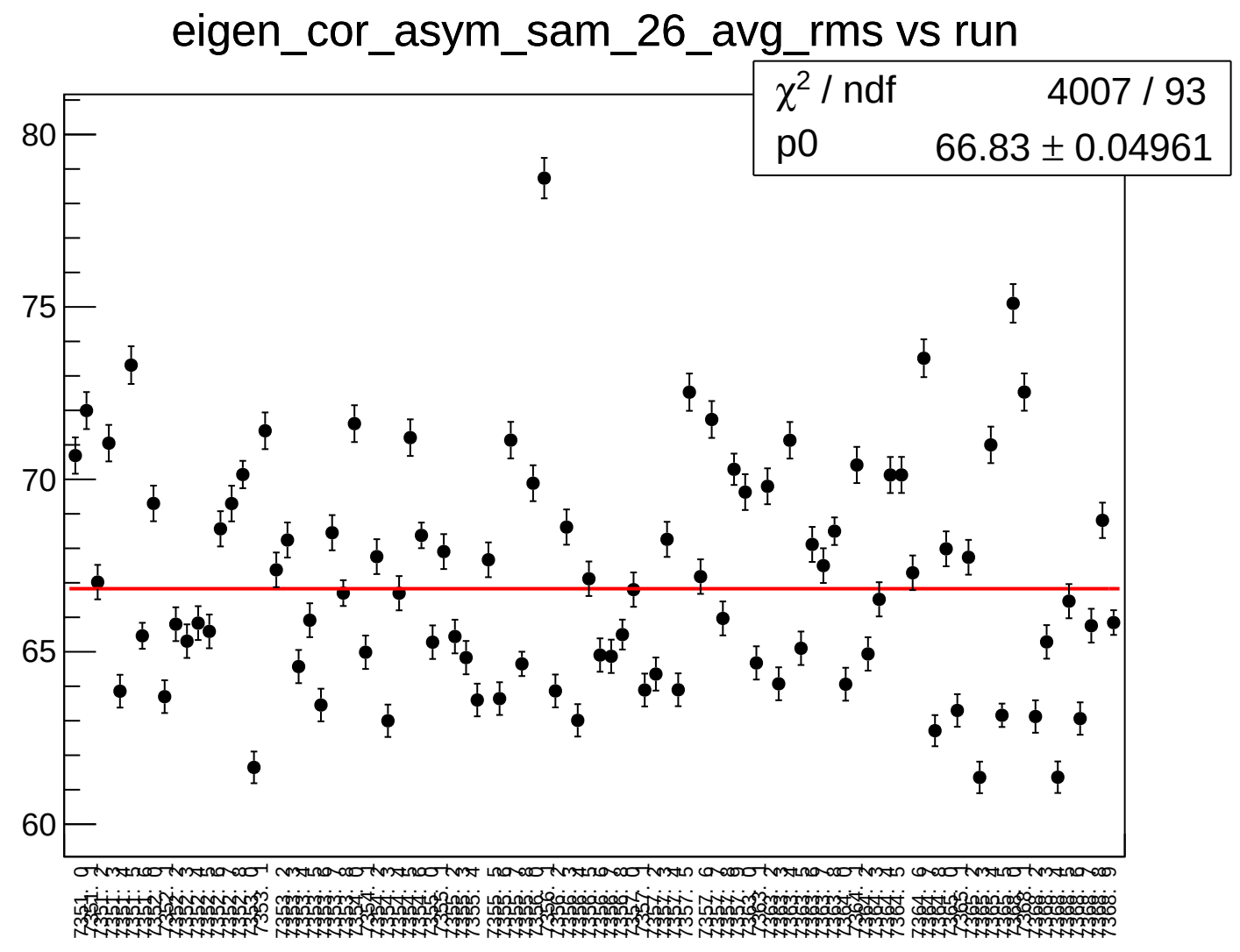

pull1D
Entries 94
Mean 0.005524
Std Dev 1.174
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

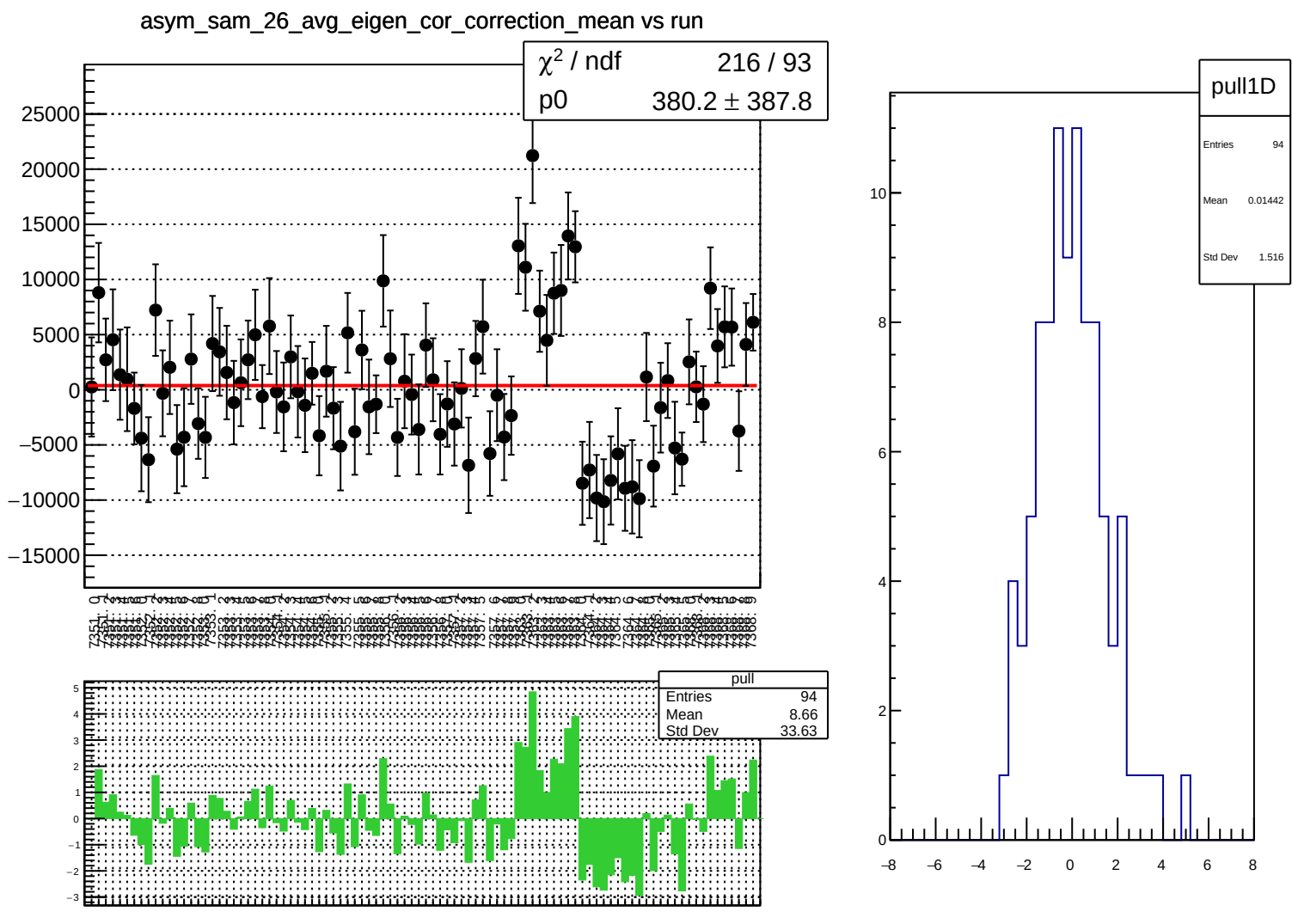

cor_asym_sam_26_avg_rms vs run
χ^2 / ndf 4007 / 93
p0 66.83 ± 0.04961
80
75
70
65
60

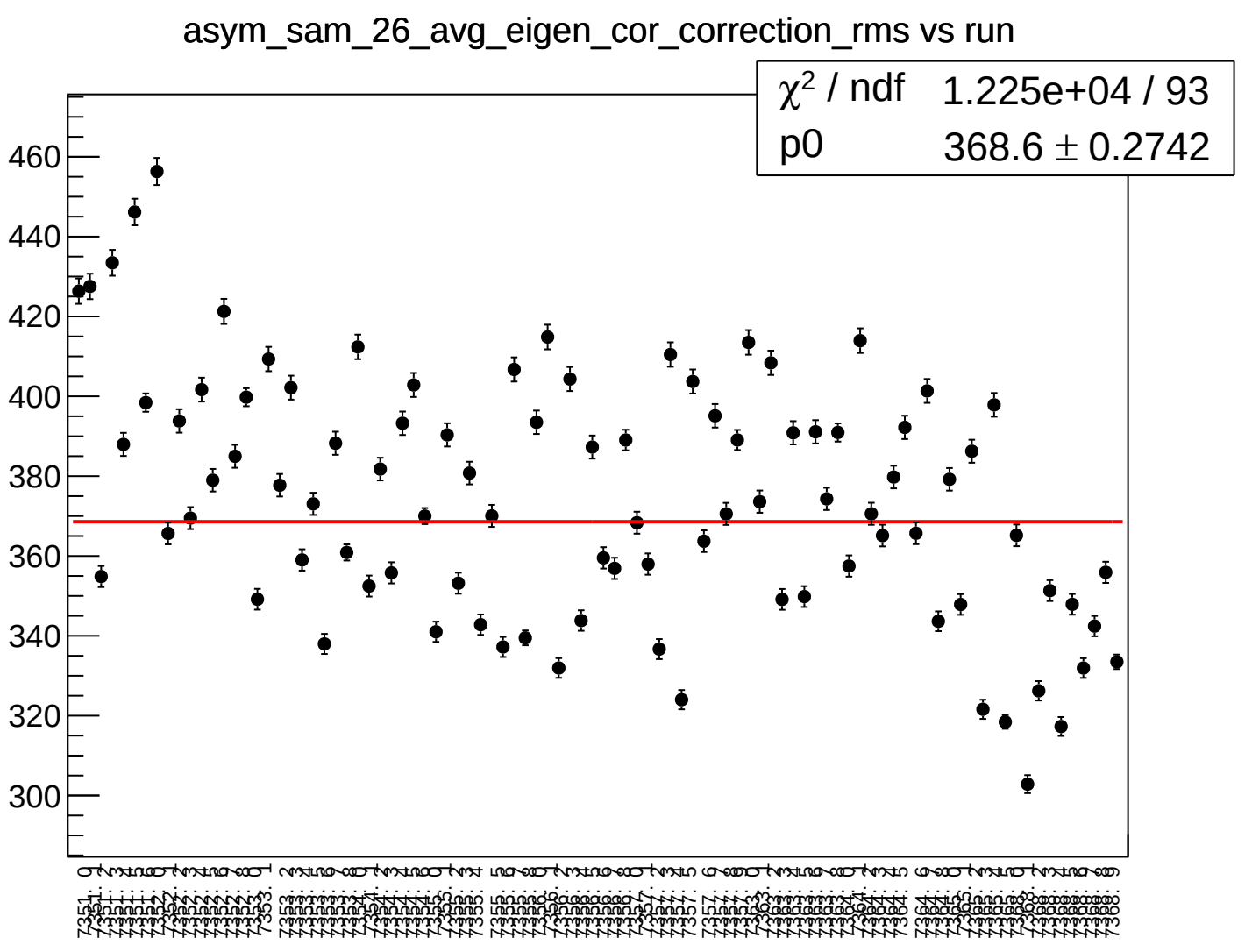

asym_sam_26_avg_cor_correction_mean vs run
χ² / ndf 216 / 93
p0 380.2 ± 387.8
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean 8.66
Std Dev 33.63
5
4
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.01442
Std Dev 1.516
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

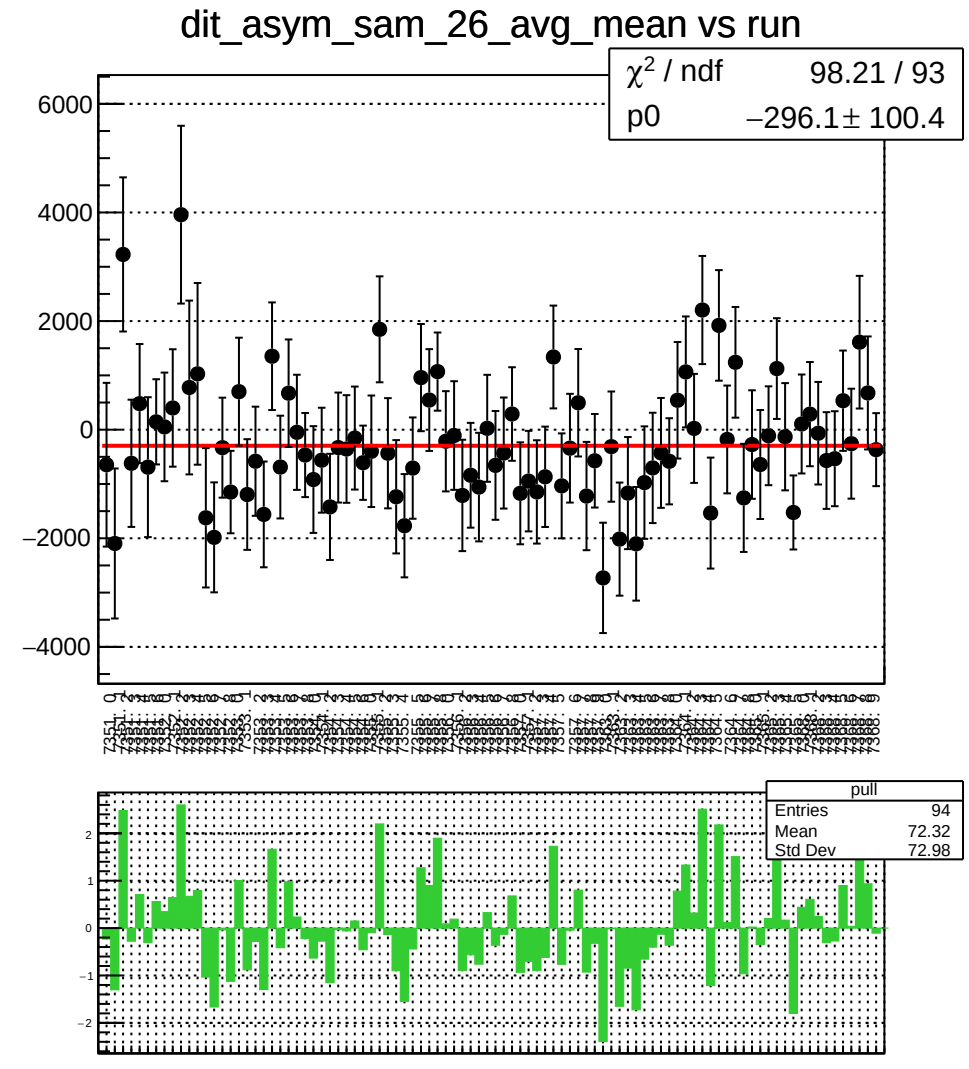

asym_sam_26_avg_cor_correction_rms vs run
χ^2 / ndf 1.225e+04 / 93
p0 368.6 ± 0.2742
460
440
420
400
380
360
340
320
300

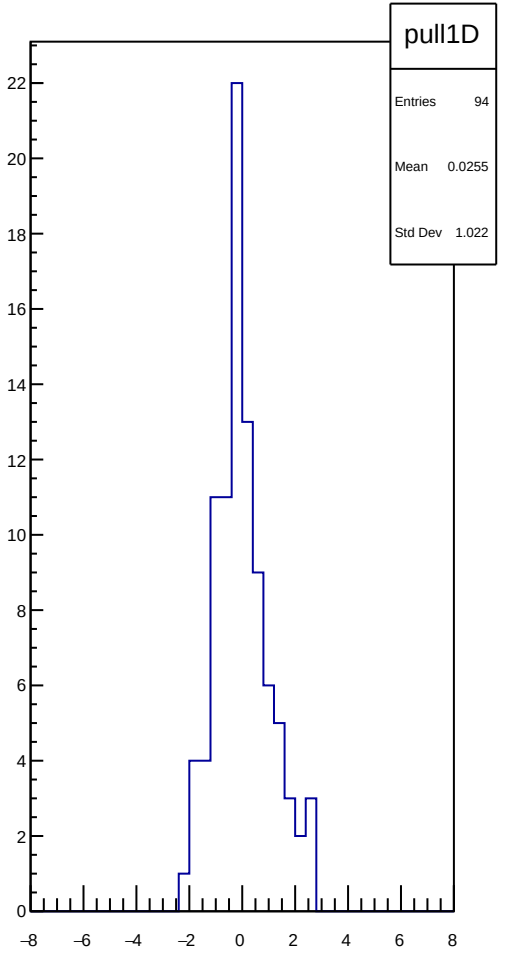

eigen_cor_asym_sam_26_avg_mean vs run
χ² / ndf 129.6 / 93
p0 −134.3 ± 70.16
3000
2000
1000
0
−1000
−2000
pull
Entries 94
Mean 738
Std Dev 0
pull1D
Entries 94
Mean 0.005524
Std Dev 1.174
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

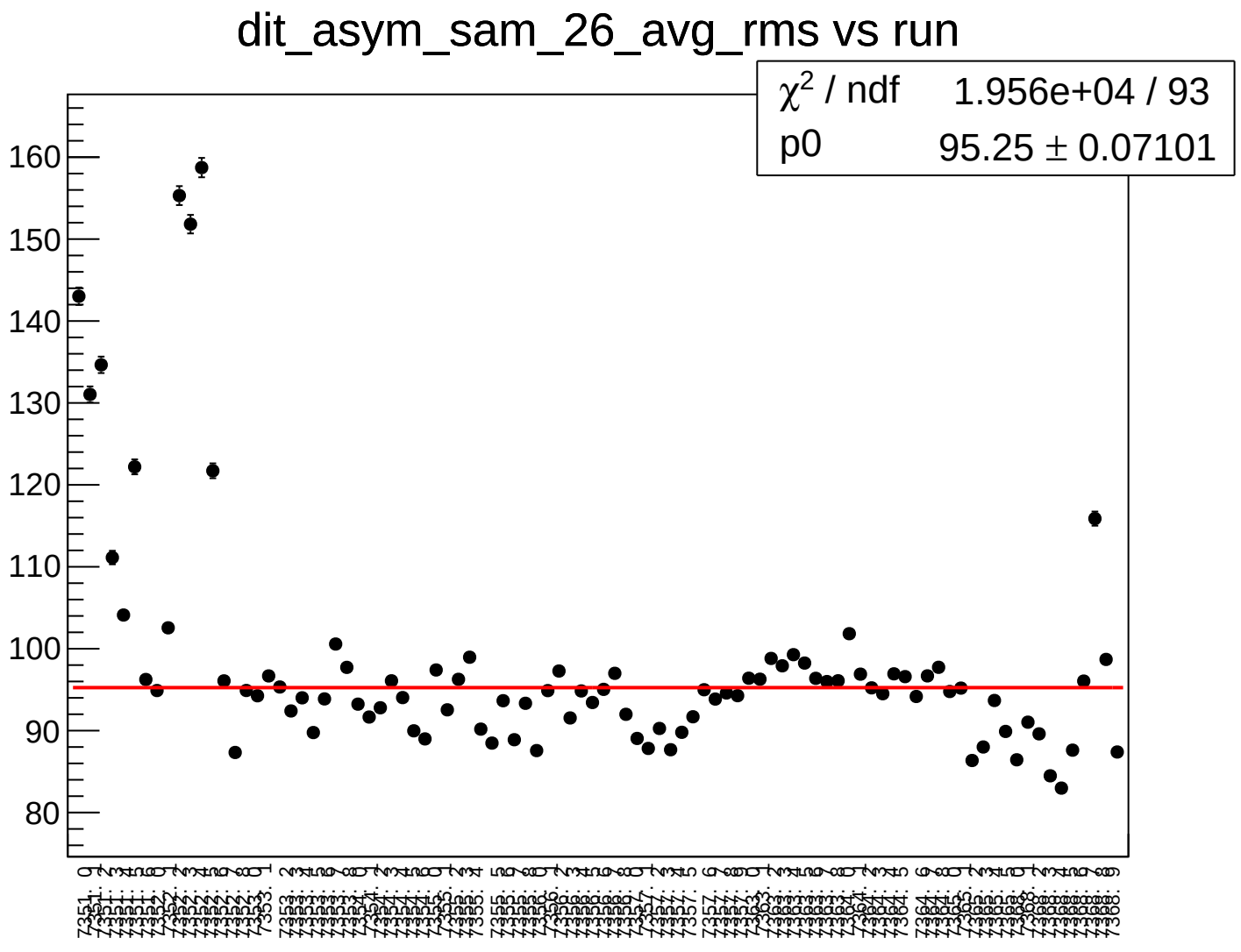

eigen_cor_asym_sam_26_avg_rms vs run
χ² / ndf 4007 / 93
p0 66.83 ± 0.04961
80
75
70
65
60

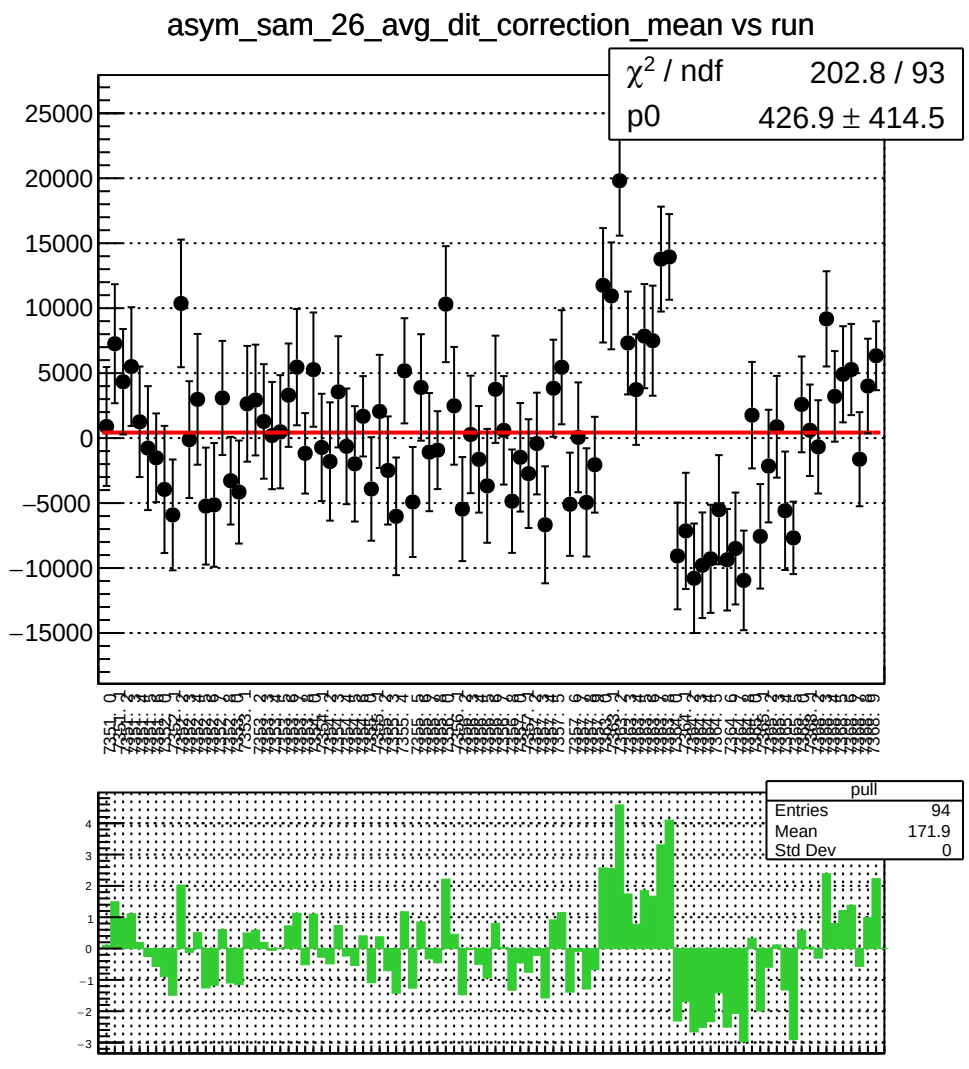

asym_sam_26_avg_eigen_cor_correction_mean vs run
χ² / ndf 216 / 93
p0 380.2 ± 387.8
pull
Entries 94
Mean 8.66
Std Dev 33.63
pull1D
Entries 94
Mean 0.01442
Std Dev 1.516

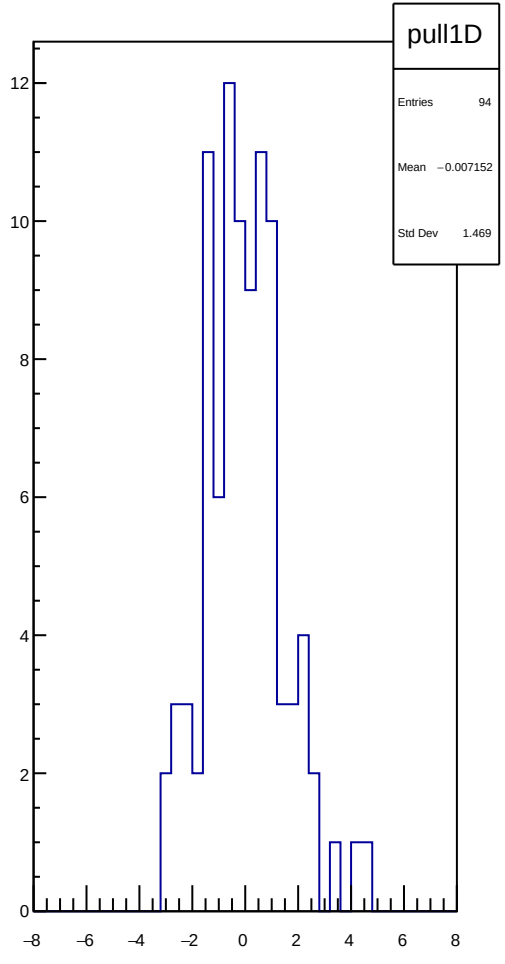

asym_sam_26_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.225e+04 / 93
p0 368.6 ± 0.2742
460
440
420
400
380
360
340
320
300

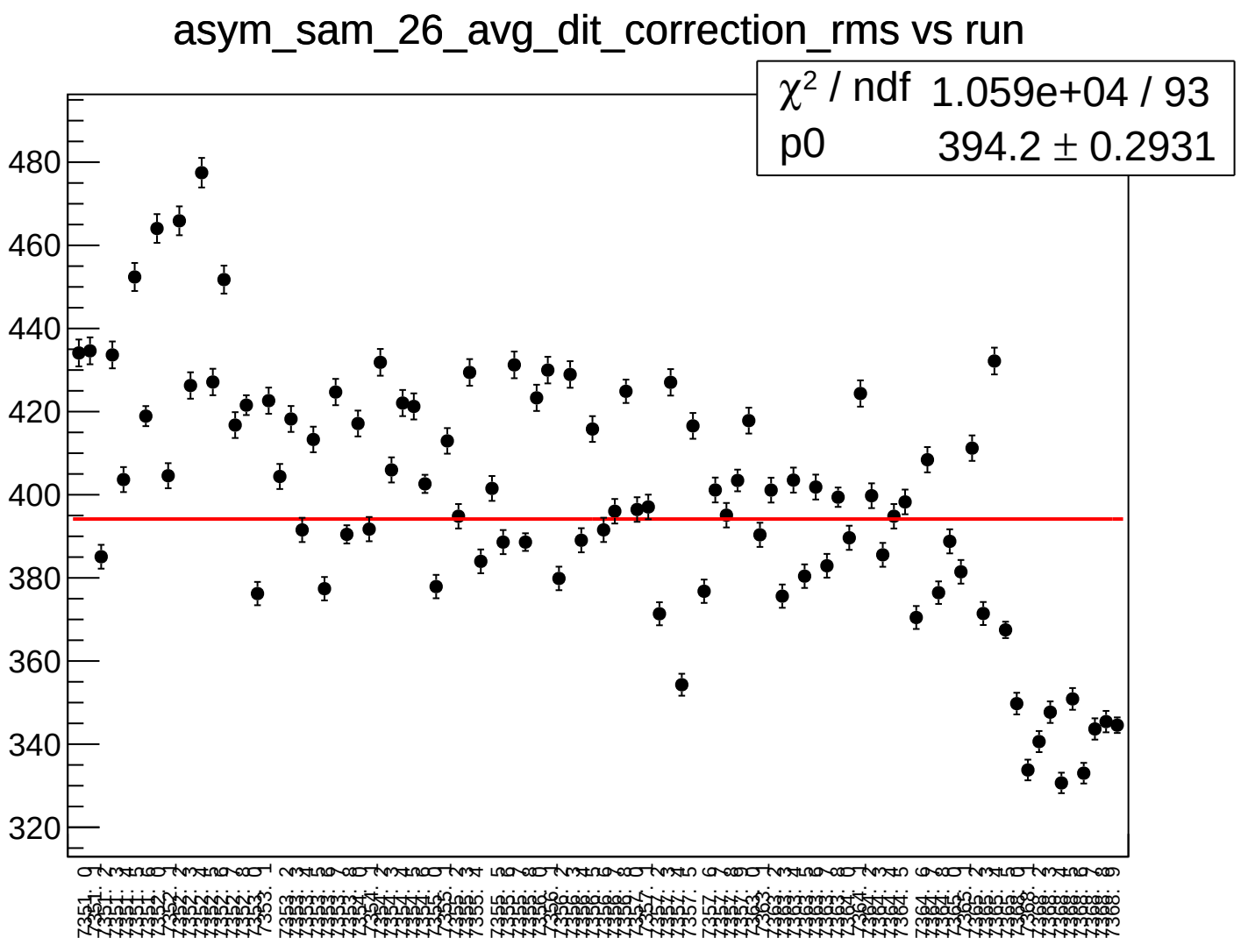

dit_asym_sam_26_avg_mean vs run
χ² / ndf 98.21 / 93
p0 −296.1± 100.4
6000
4000
2000
0
−2000
−4000
pull
Entries 94
Mean 72.32
Std Dev 72.98
2
1
0
−1
−2

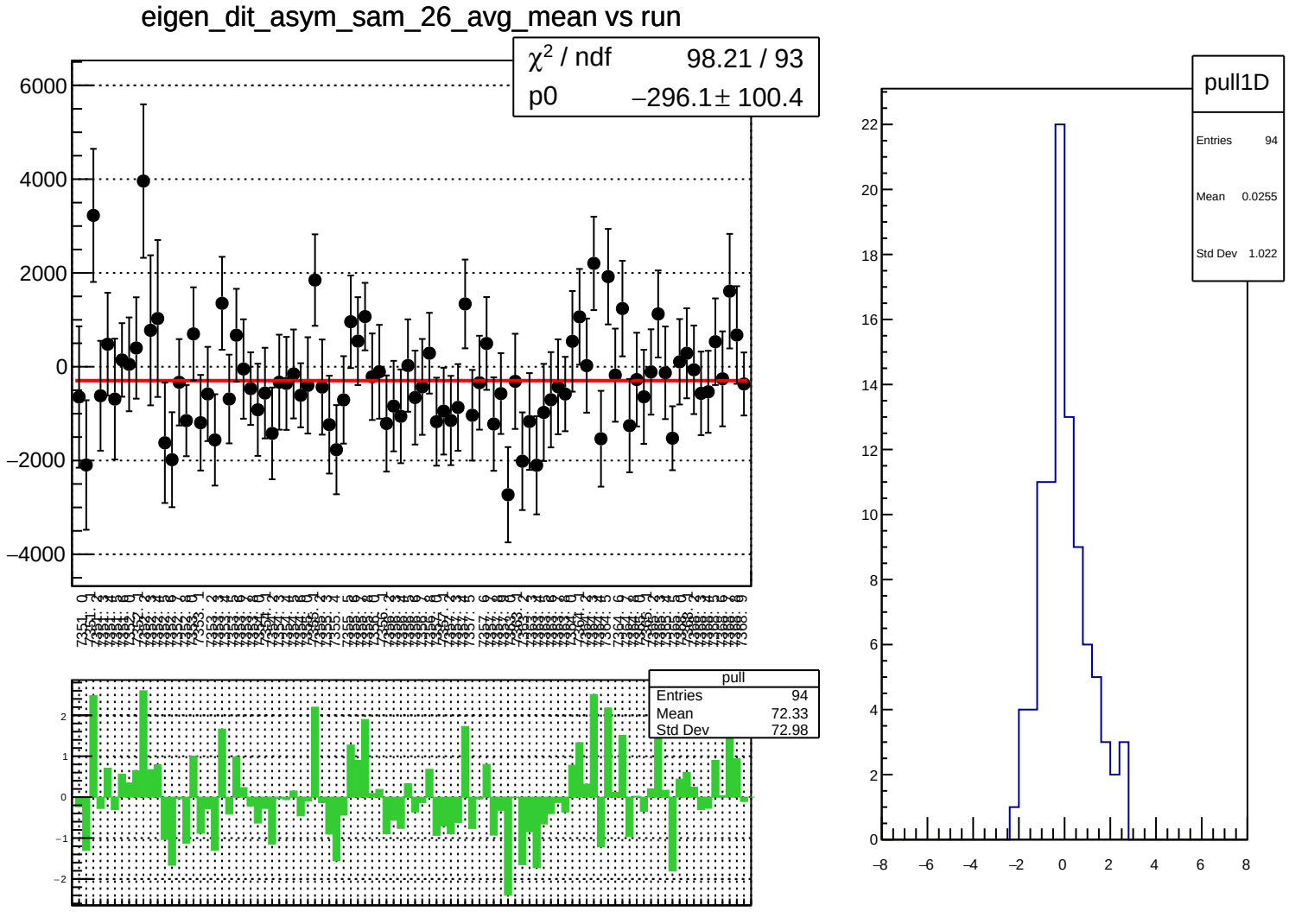

pull1D
Entries 94
Mean 0.0255
Std Dev 1.022
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

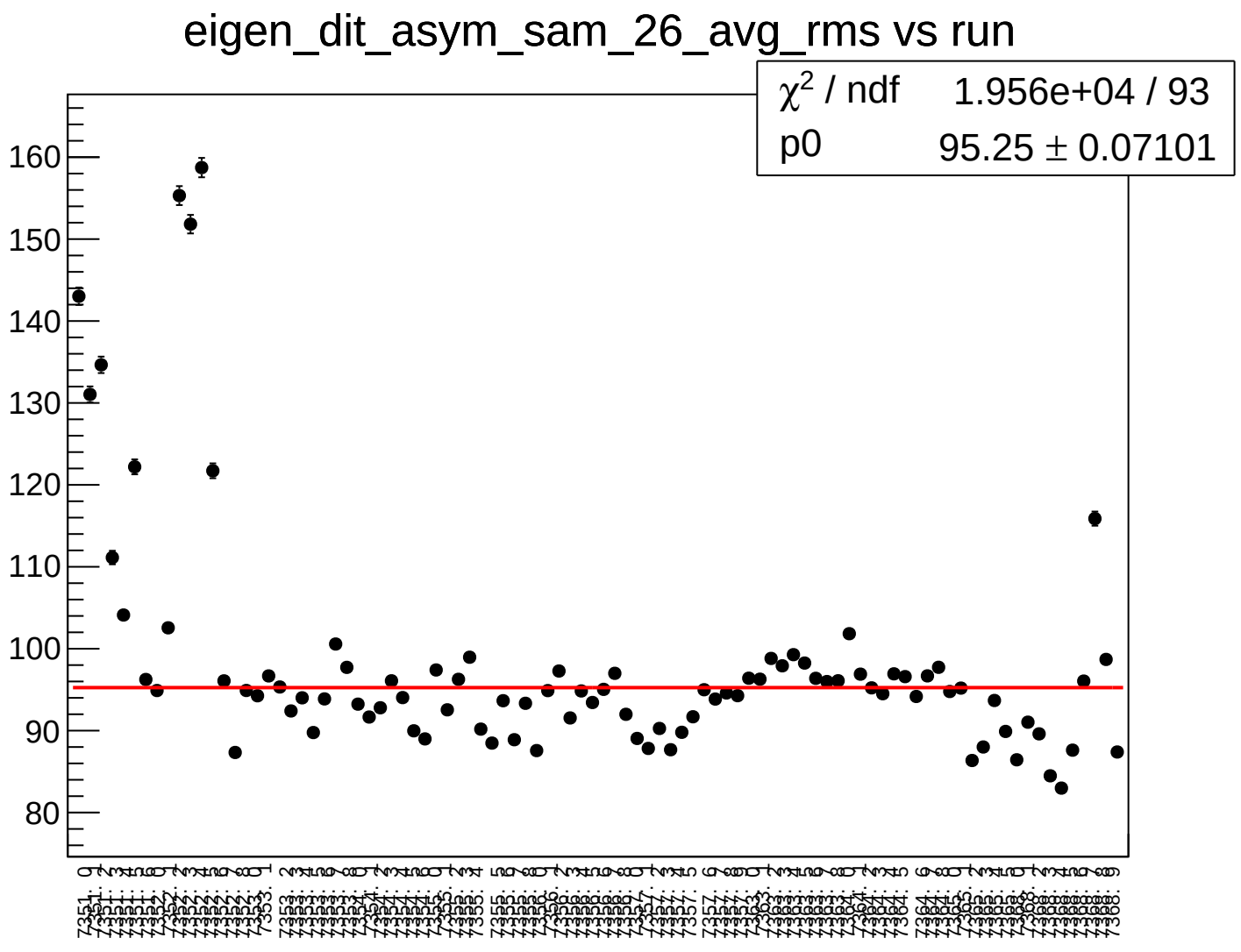

dit_asym_sam_26_avg_rms vs run
χ^2 / ndf 1.956e+04 / 93
p0 95.25 ± 0.07101
160
150
140
130
120
110
100
90
80

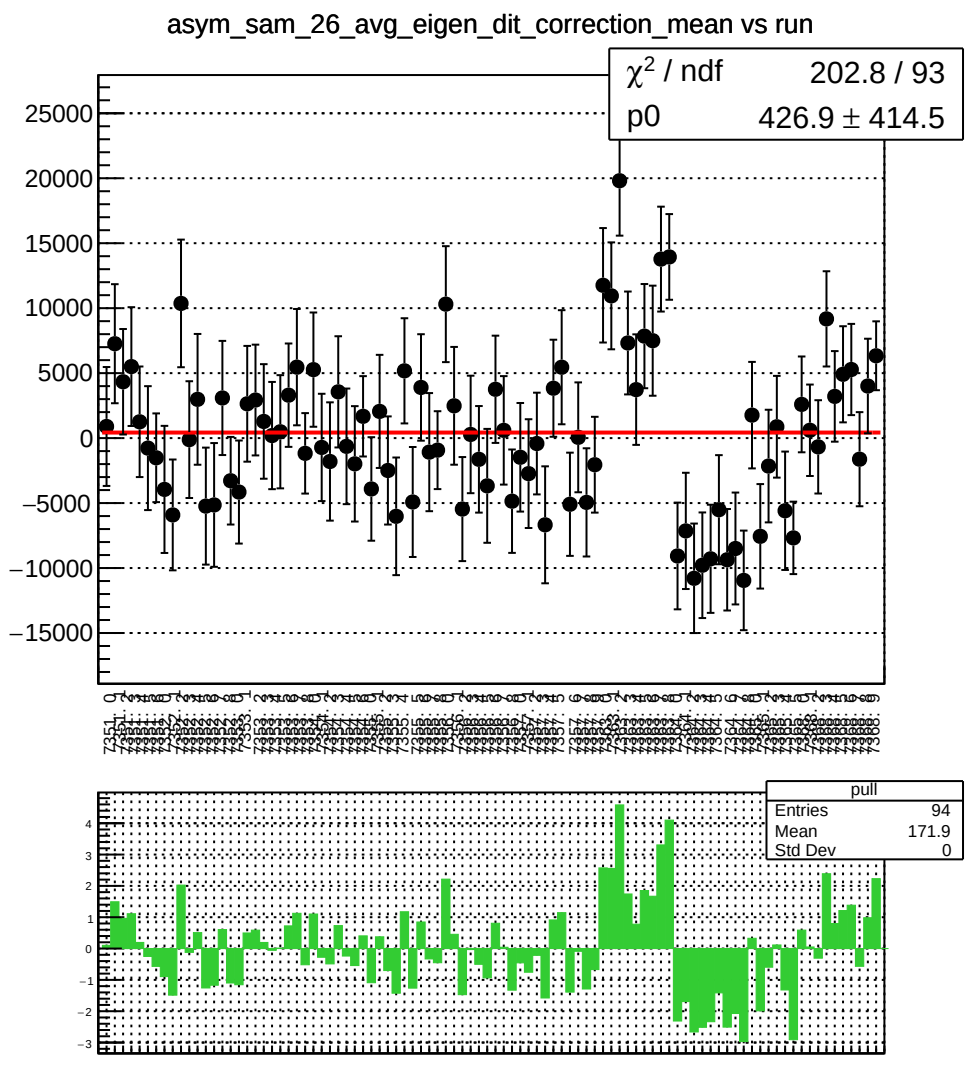

asym_sam_26_avg_dit_correction_mean vs run
χ² / ndf 202.8 / 93
p0 426.9 ± 414.5
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean 171.9
Std Dev 0
4
3
2
1
0
−1
−2
−3

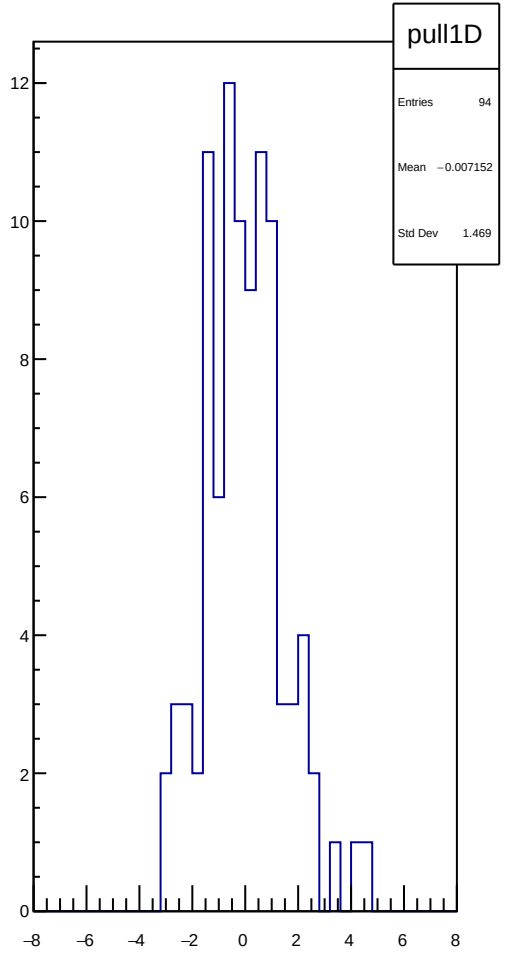

pull1D
Entries 94
Mean −0.007152
Std Dev 1.469
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

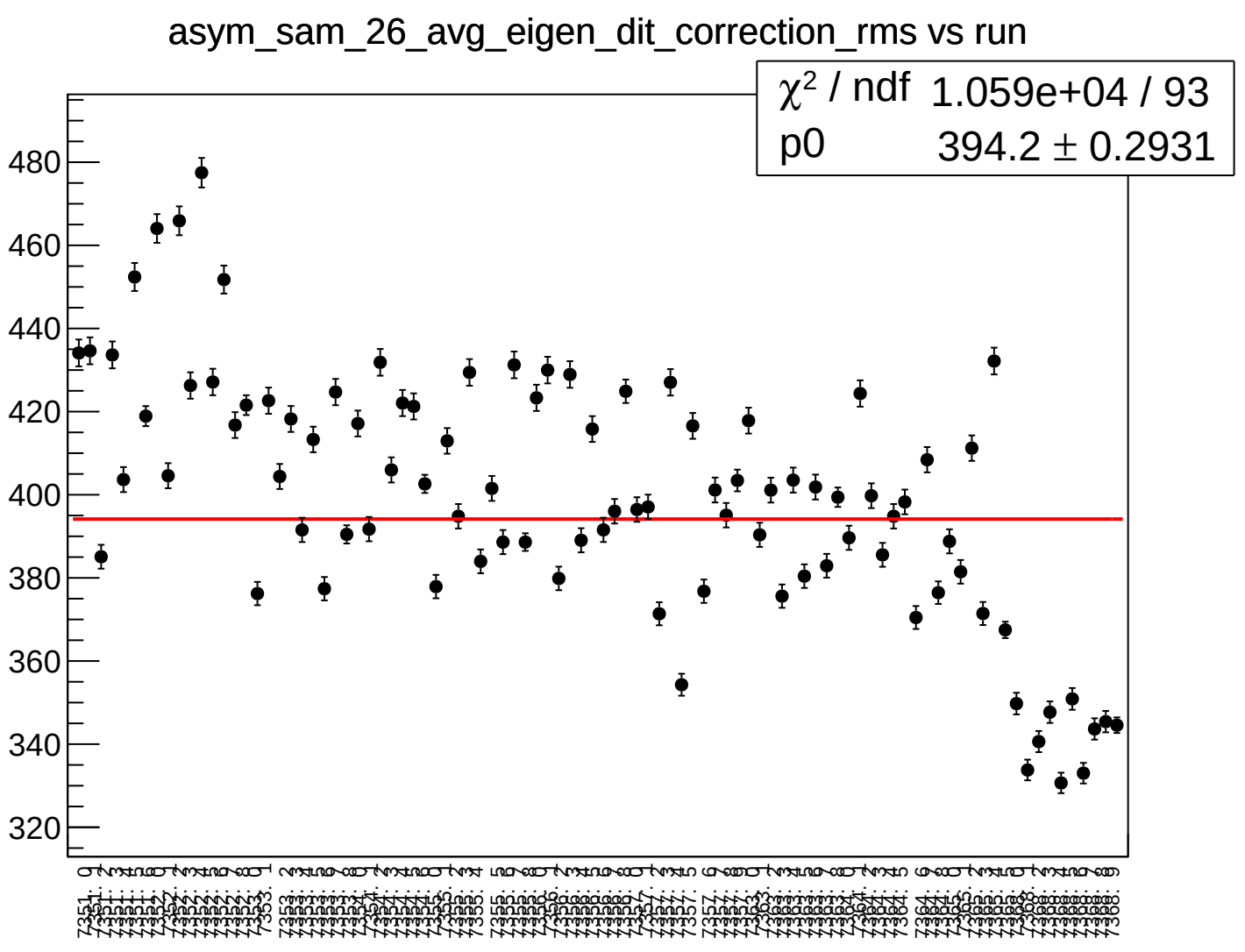

asym_sam_26_avg_dit_correction_rms vs run
χ² / ndf 1.059e+04 / 93
p0 394.2 ± 0.2931
480
460
440
420
400
380
360
340
320

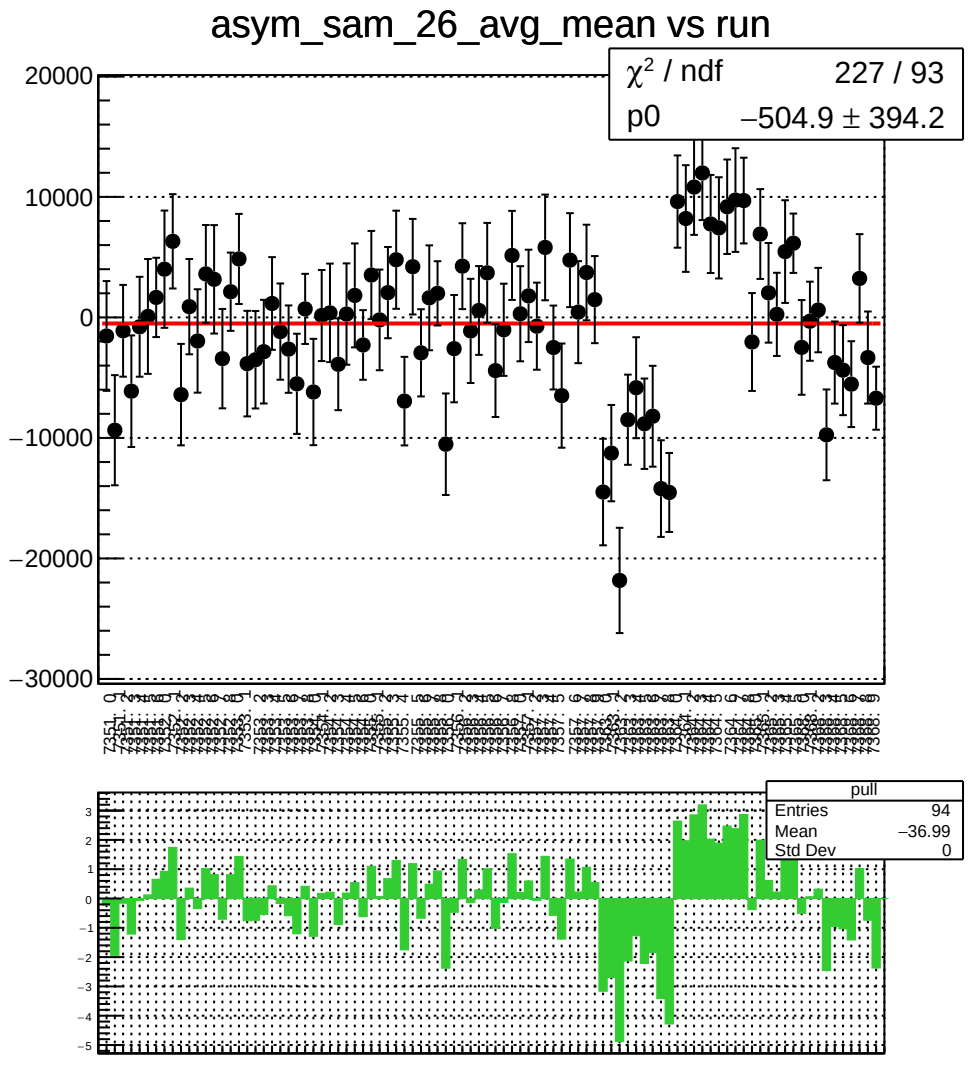

eigen_dit_asym_sam_26_avg_mean vs run
χ² / ndf 98.21 / 93
p0 −296.1± 100.4
6000
4000
2000
0
−2000
−4000
pull
Entries 94
Mean 72.33
Std Dev 72.98
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.0255
Std Dev 1.022
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

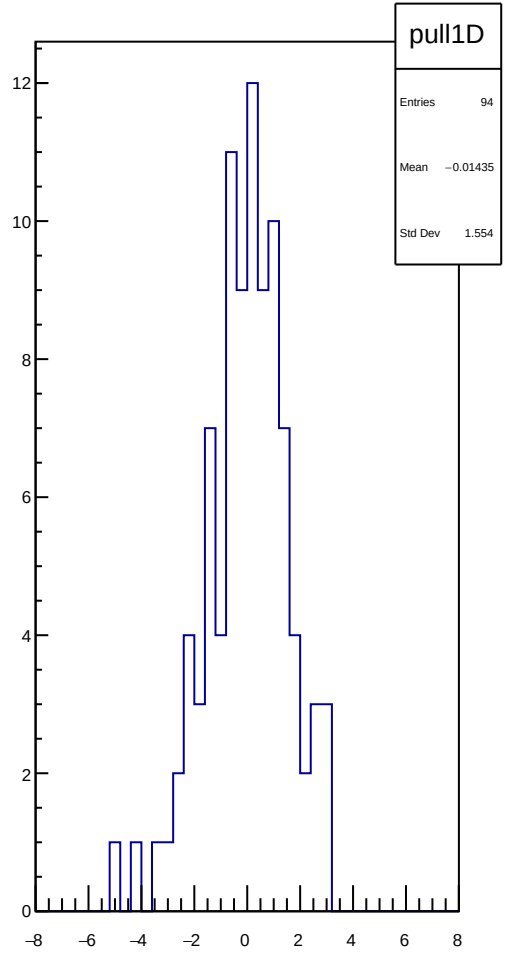

eigen_dit_asym_sam_26_avg_rms vs run
χ^2 / ndf 1.956e+04 / 93
p0 95.25 ± 0.07101
160
150
140
130
120
110
100
90
80

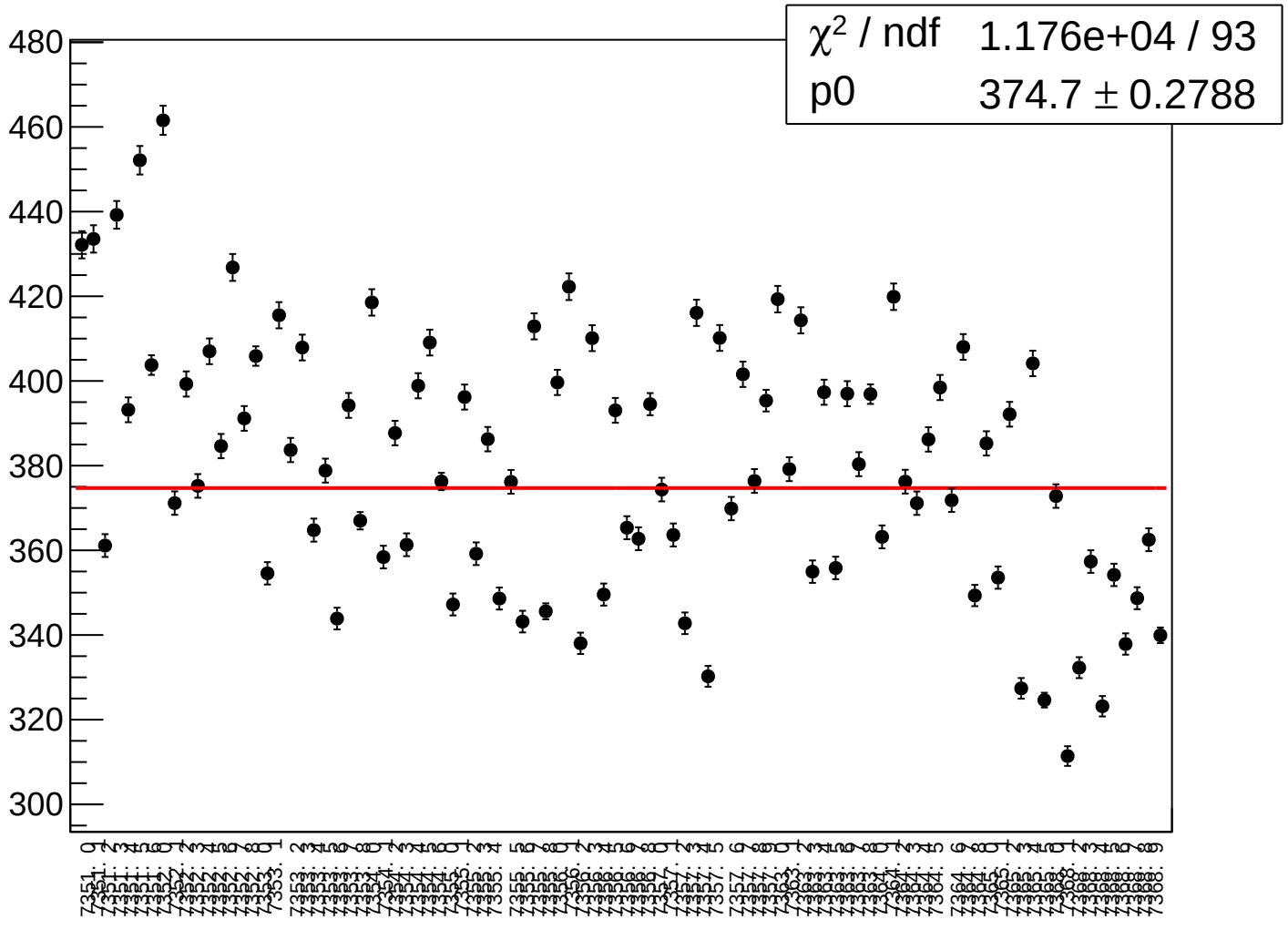

asym_sam_26_avg_eigen_dit_correction_mean vs run
χ² / ndf 202.8 / 93
p0 426.9 ± 414.5
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean 171.9
Std Dev 0
4
3
2
1
0
−1
−2
−3

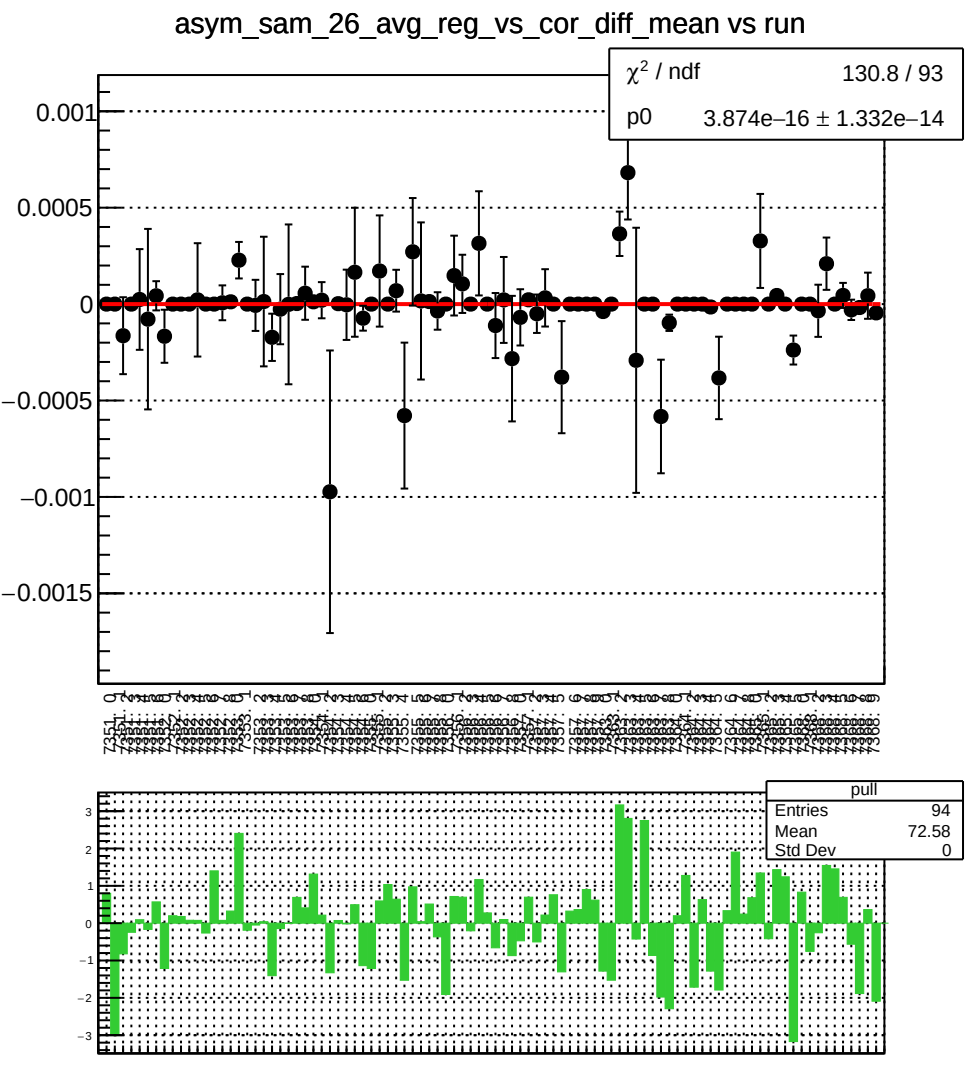

pull1D
Entries 94
Mean −0.007152
Std Dev 1.469
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

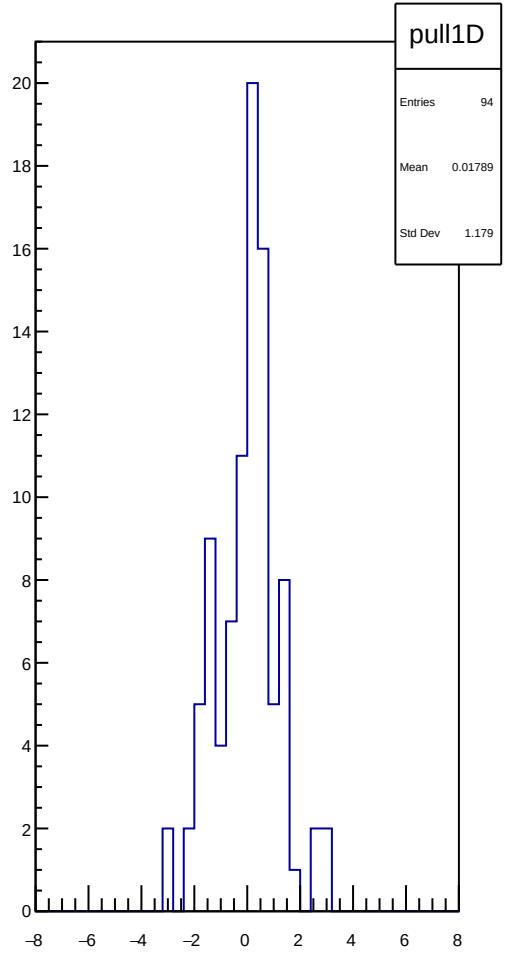

asym_sam_26_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.059e+04 / 93
p0 394.2 ± 0.2931
480
460
440
420
400
380
360
340
320

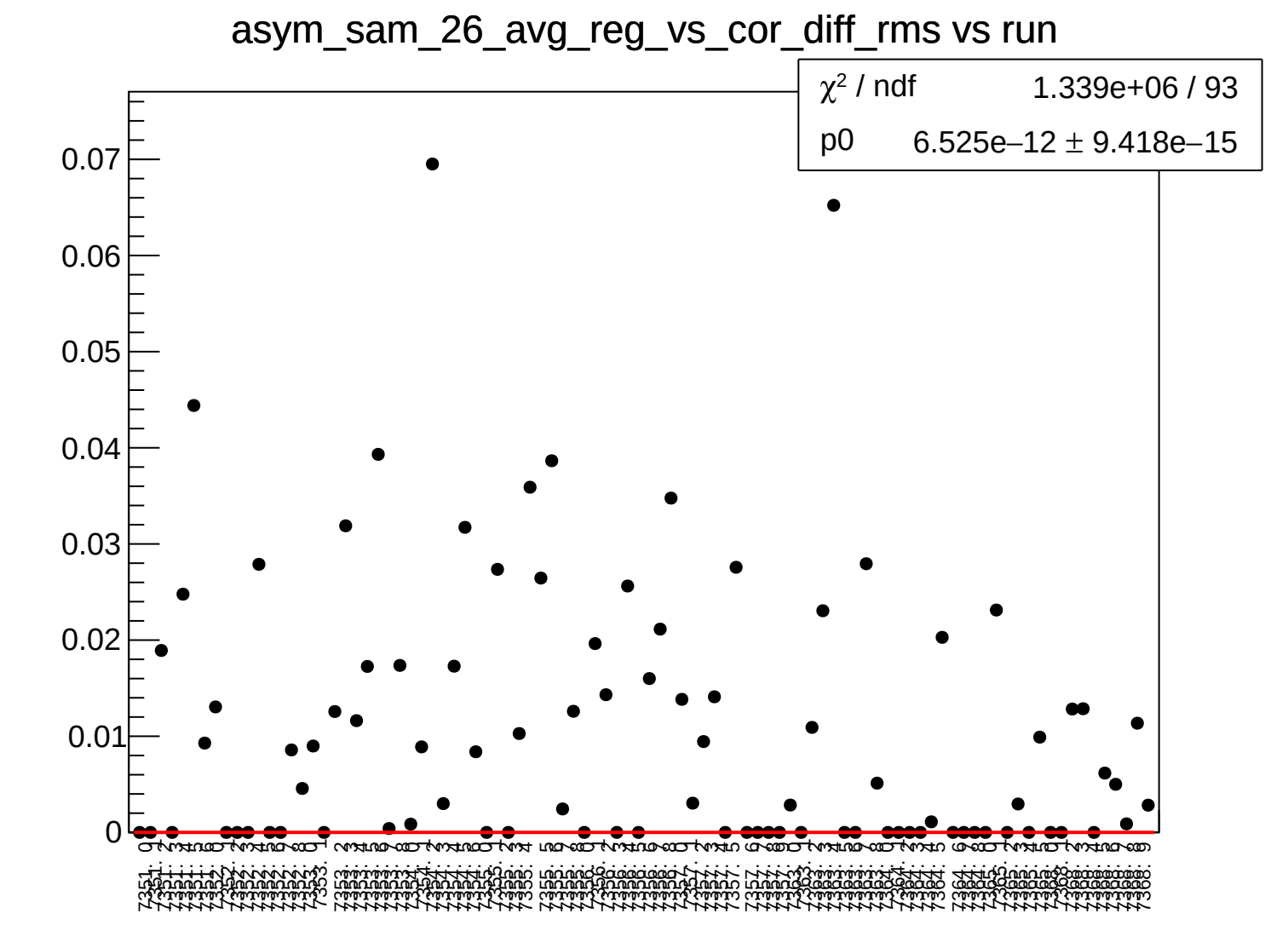

asym_sam_26_avg_mean vs run
χ² / ndf 227 / 93
p0 −504.9 ± 394.2
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −36.99
Std Dev 0
3
2
1
0
−1
−2
−3
−4
−5

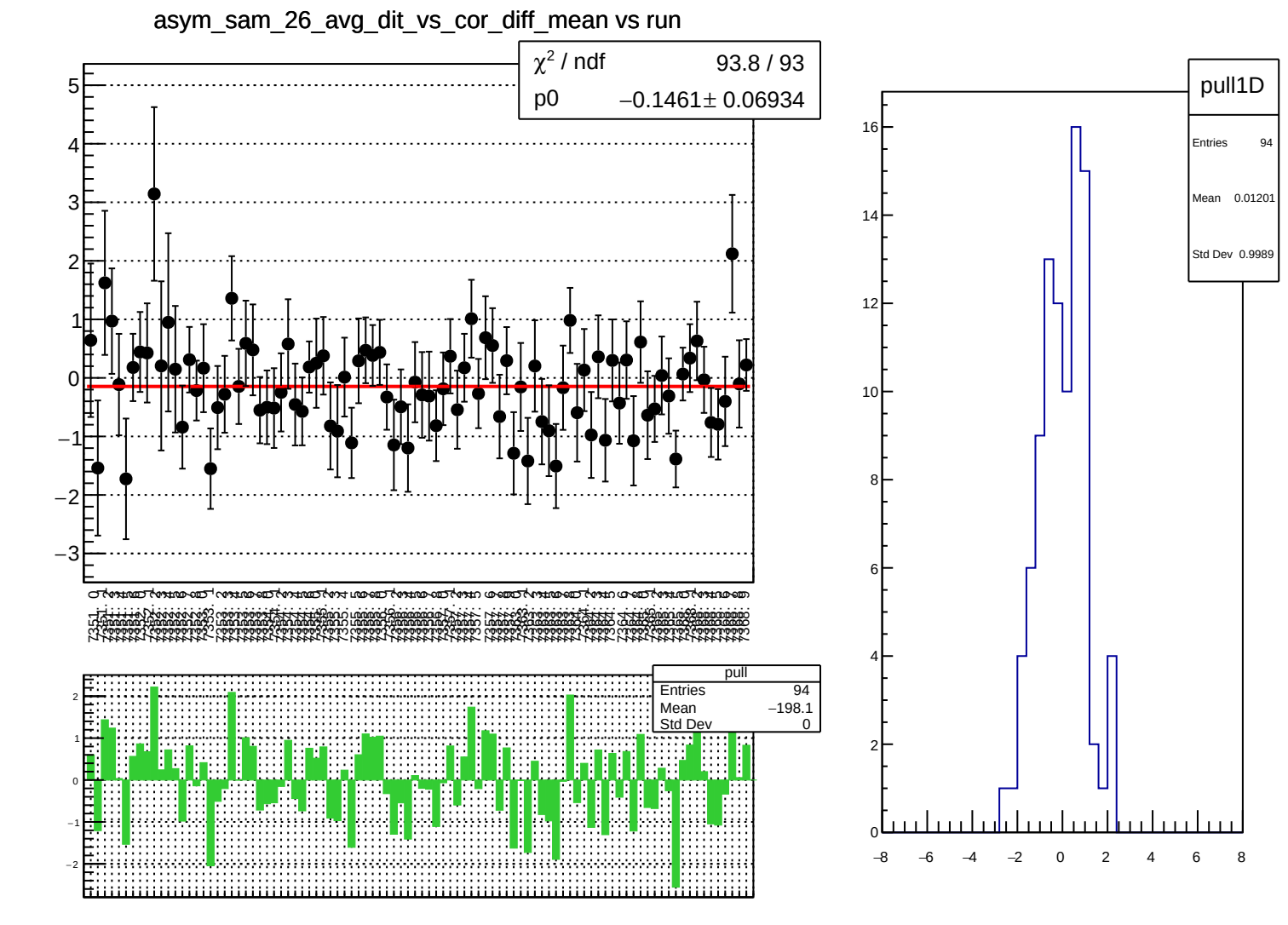

pull1D
Entries 94
Mean −0.01435
Std Dev 1.554
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

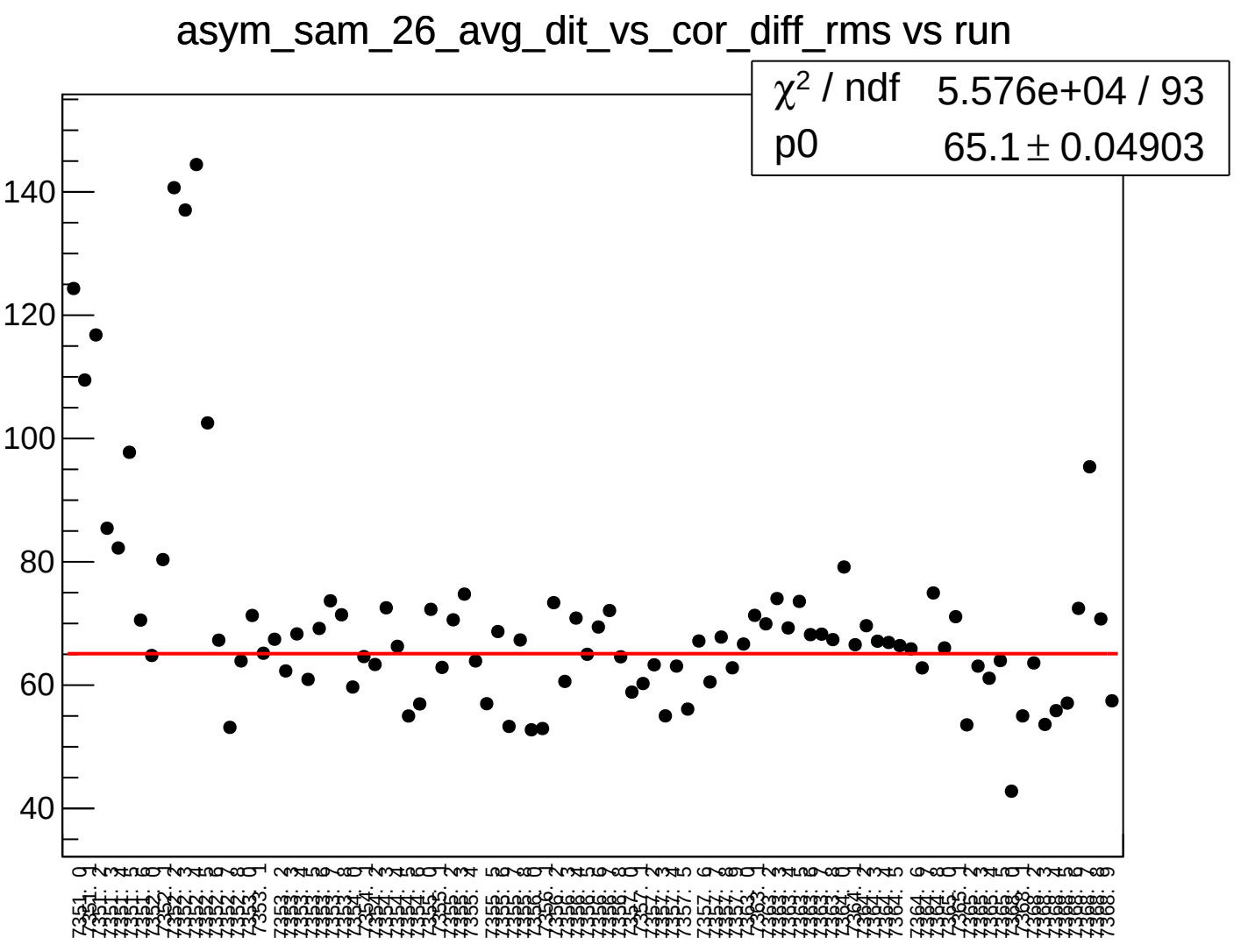

asym_sam_26_avg_rms vs run
χ² / ndf 1.176e+04 / 93
p0 374.7 ± 0.2788
480
460
440
420
400
380
360
340
320
300

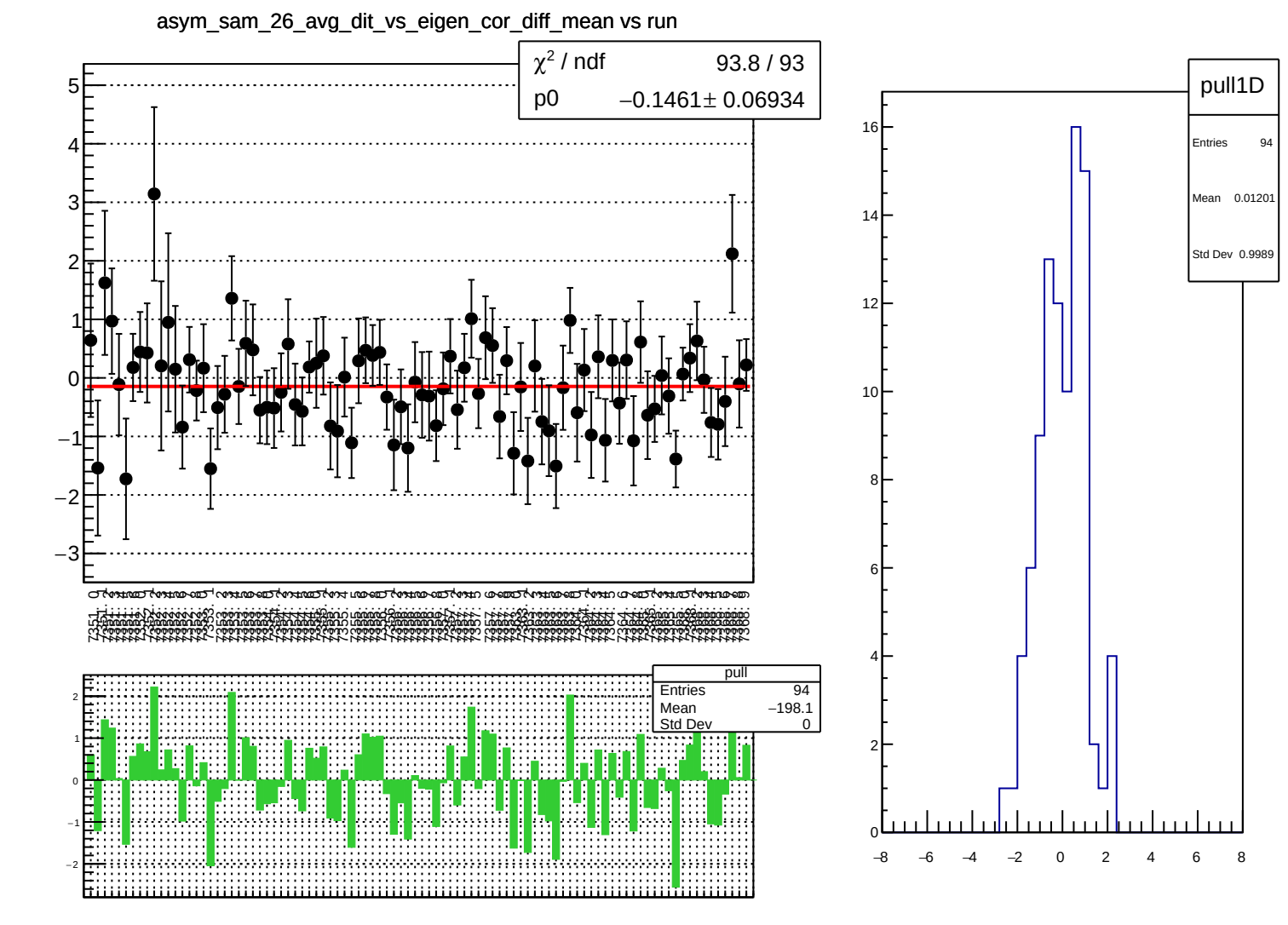

asym_sam_26_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 130.8 / 93
p0 3.874e−16 ± 1.332e−14
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 94
Mean 72.58
Std Dev 0
3
2
1
0
−1
−2
−3

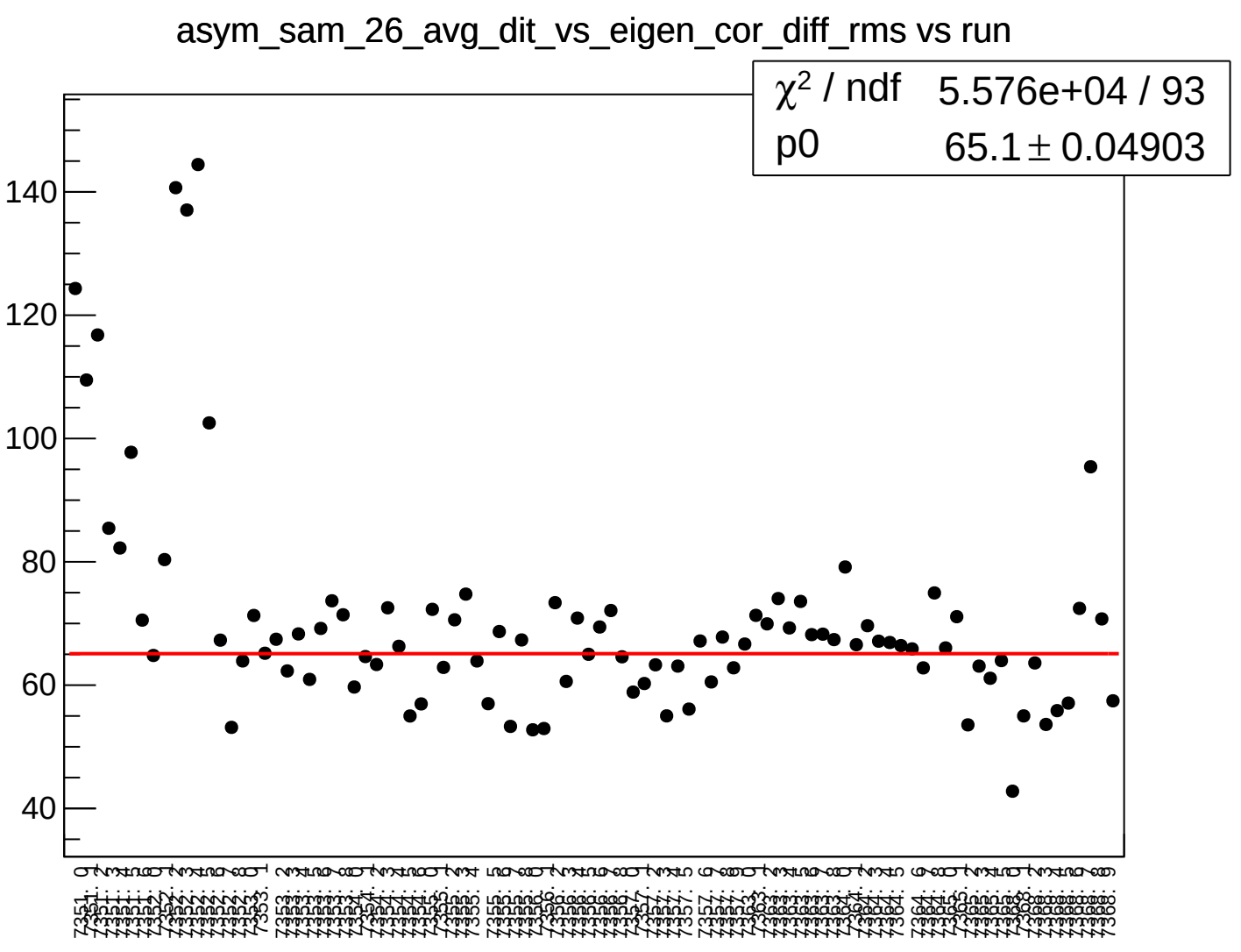

pull1D
Entries 94
Mean 0.01789
Std Dev 1.179
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

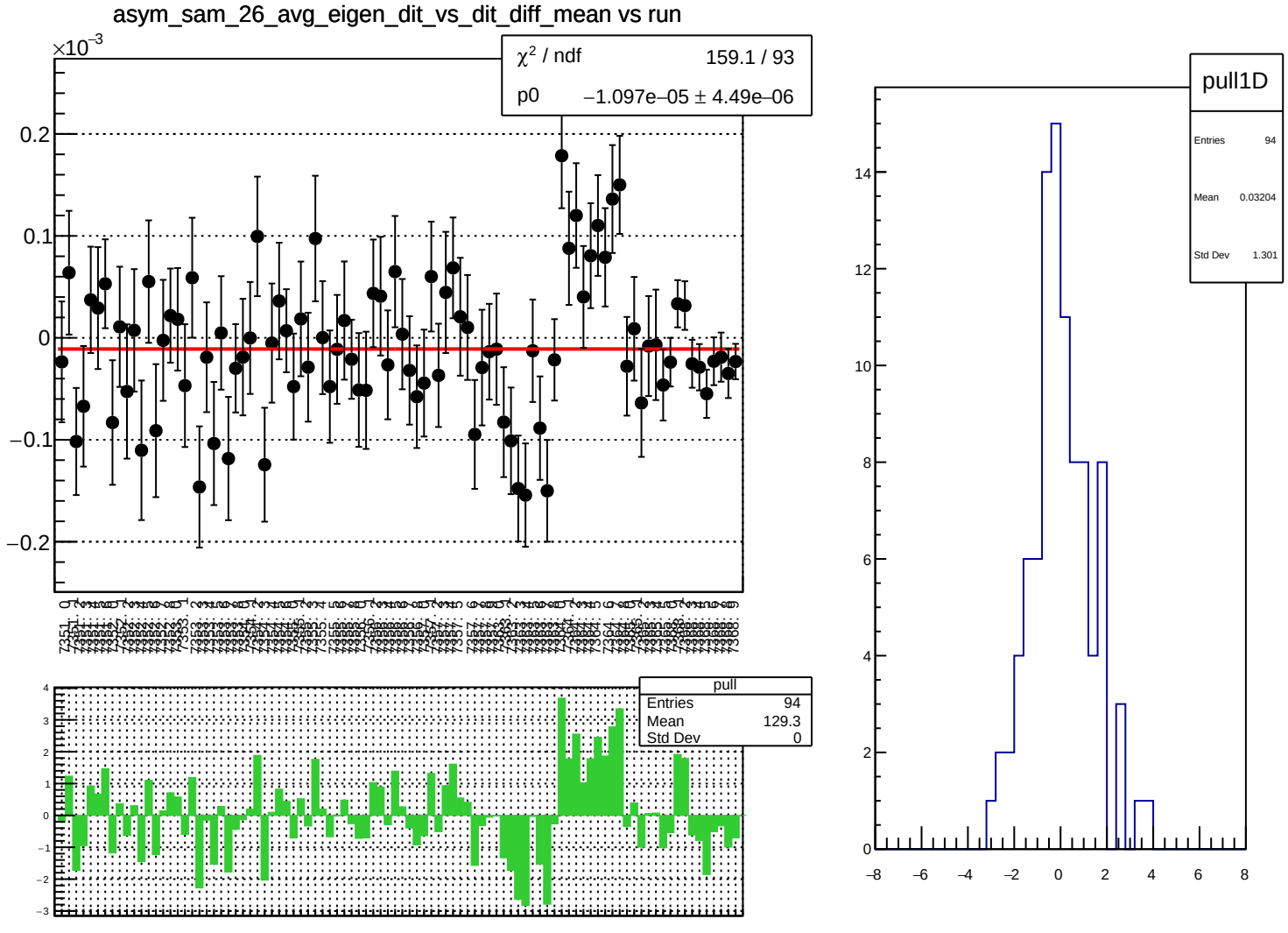

asym_sam_26_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.339e+06 / 93
p0 6.525e−12 ± 9.418e−15
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

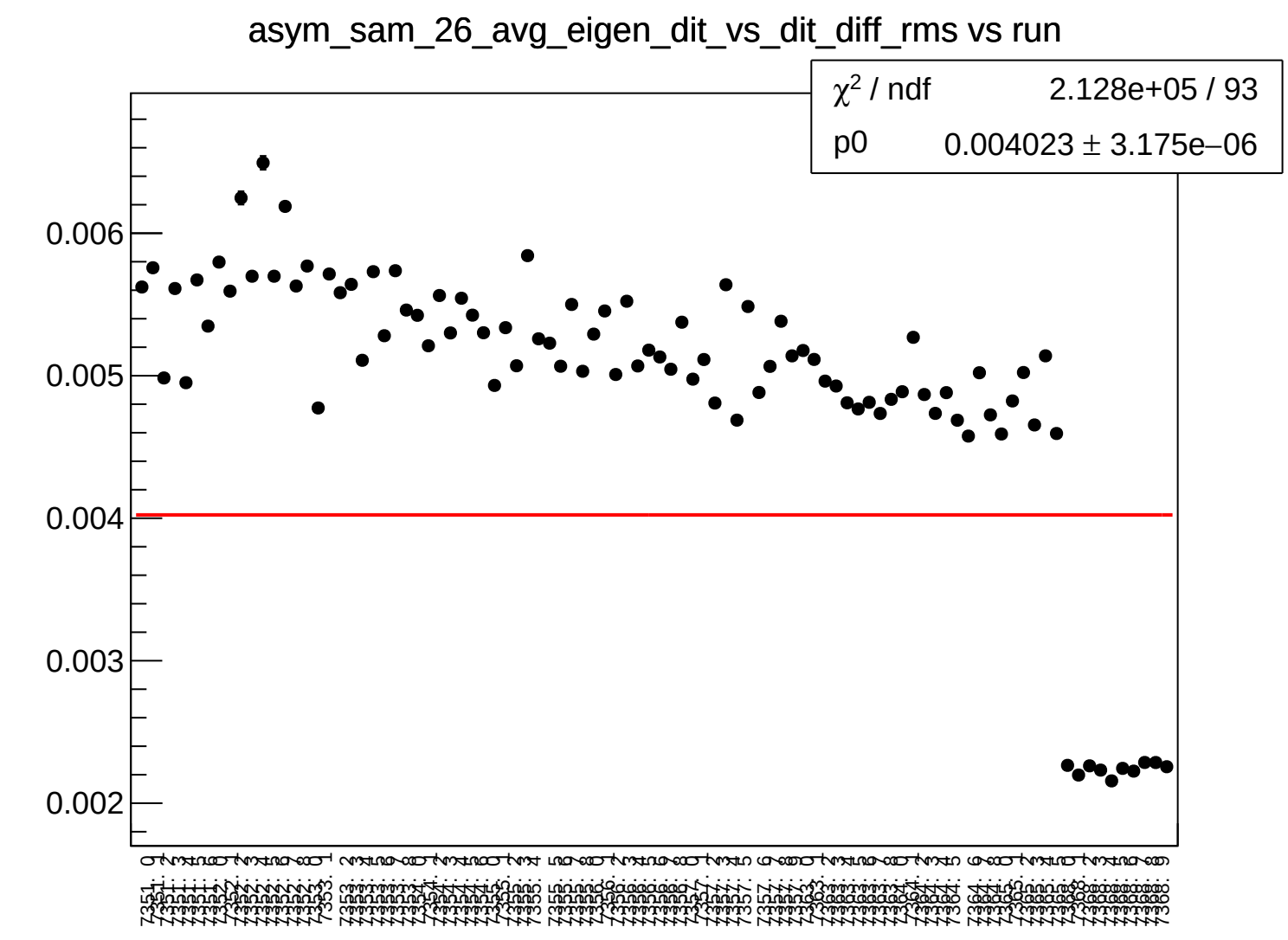

asym_sam_26_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 93.8 / 93
p0 −0.1461± 0.06934
pull
Entries 94
Mean −198.1
Std Dev 0
pull1D
Entries 94
Mean 0.01201
Std Dev 0.9989

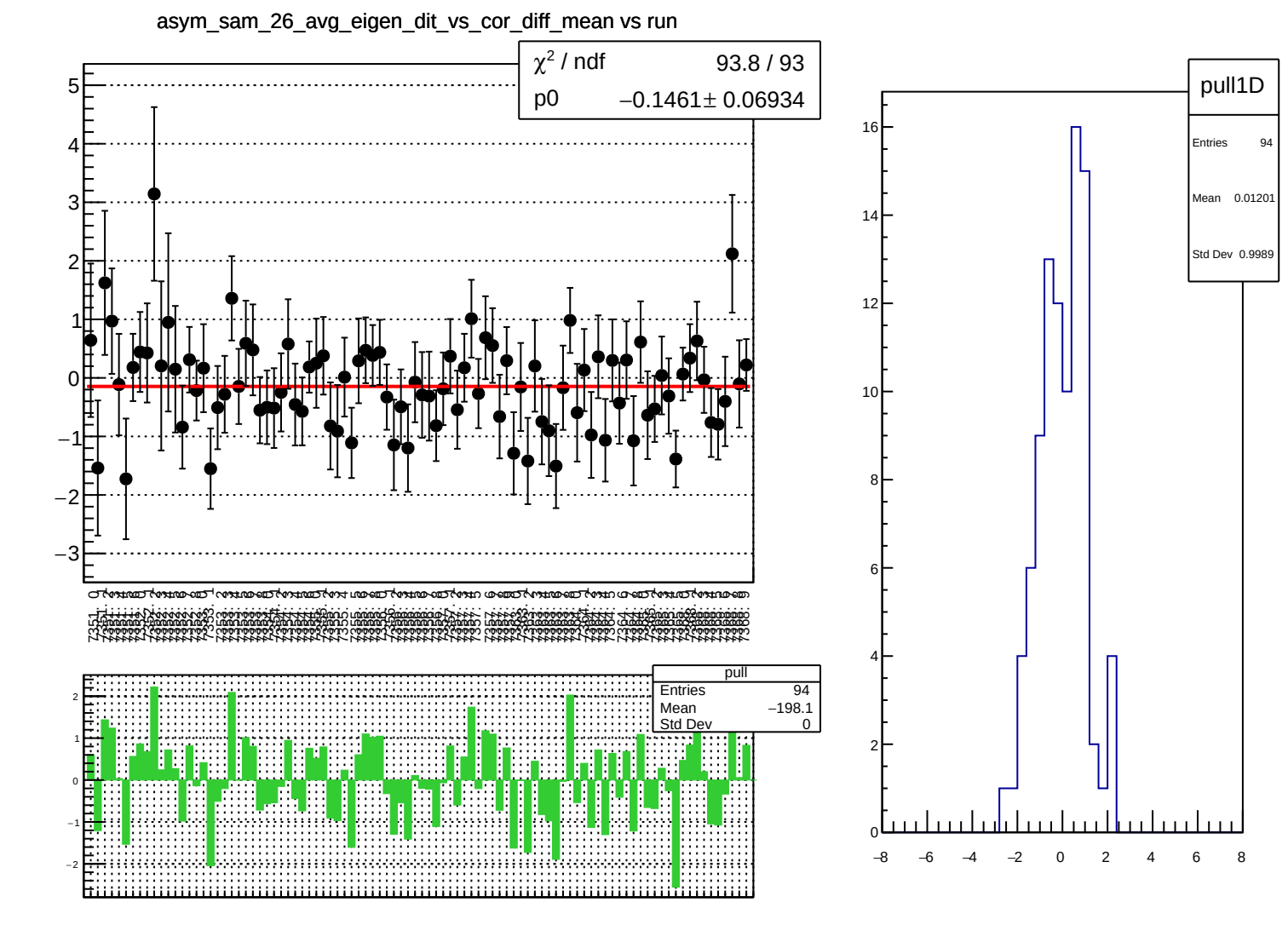

asym_sam_26_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 5.576e+04 / 93
p0 65.1 ± 0.04903
140
120
100
80
60
40

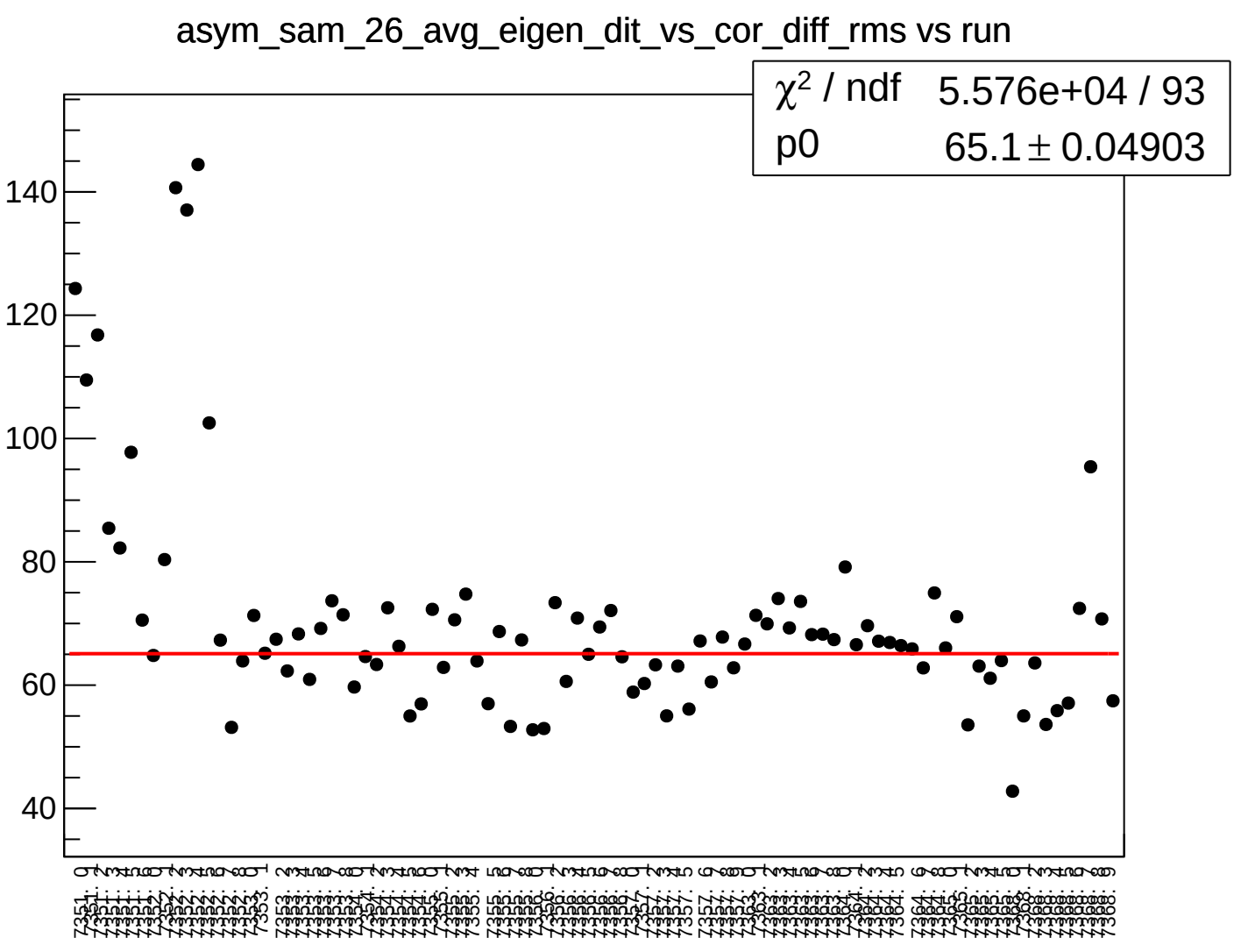

asym_sam_26_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.8 / 93
p0 −0.1461± 0.06934
pull
Entries 94
Mean −198.1
Std Dev 0
pull1D
Entries 94
Mean 0.01201
Std Dev 0.9989

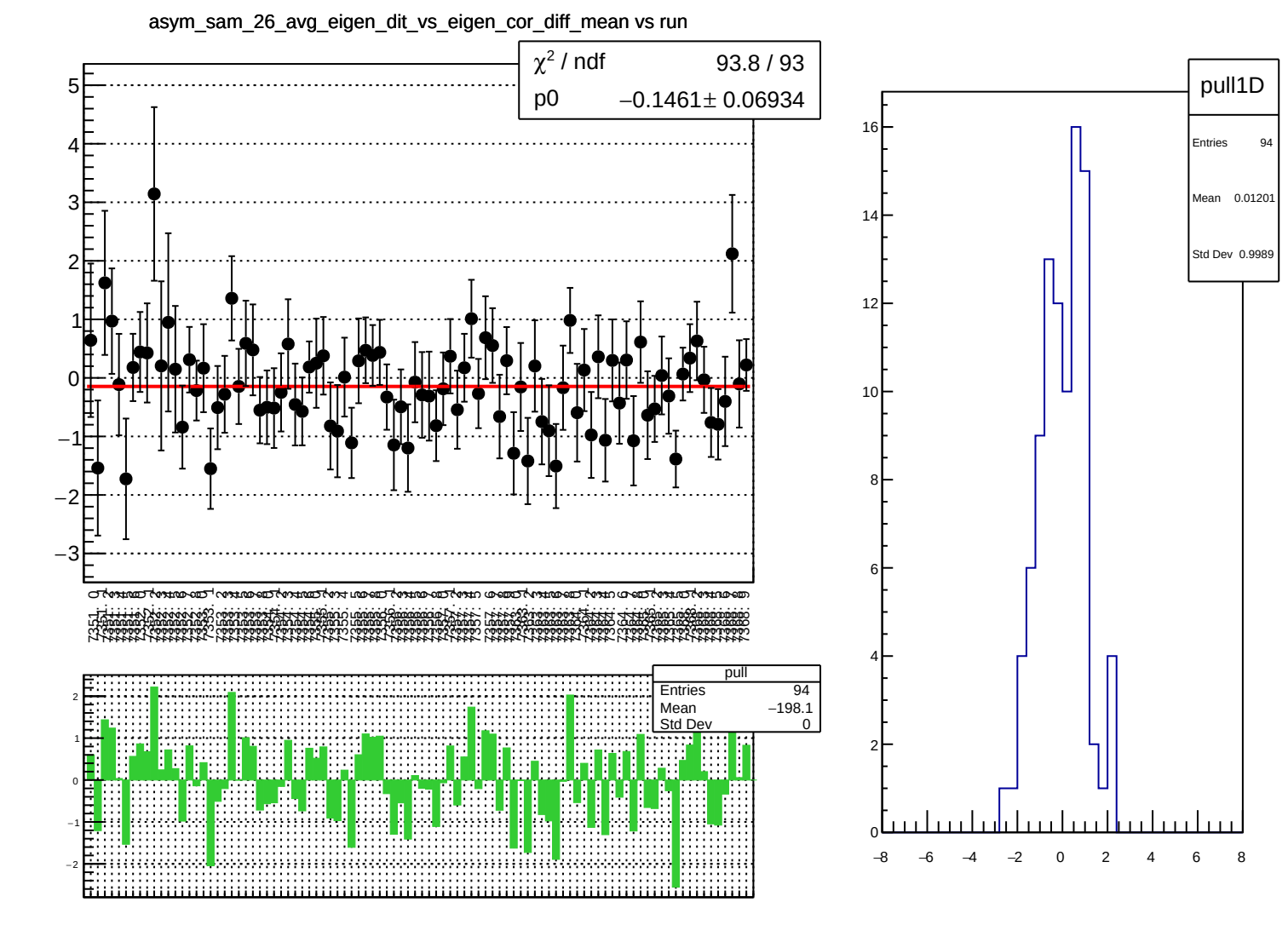

asym_sam_26_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.576e+04 / 93
p0 65.1 ± 0.04903
140
120
100
80
60
40

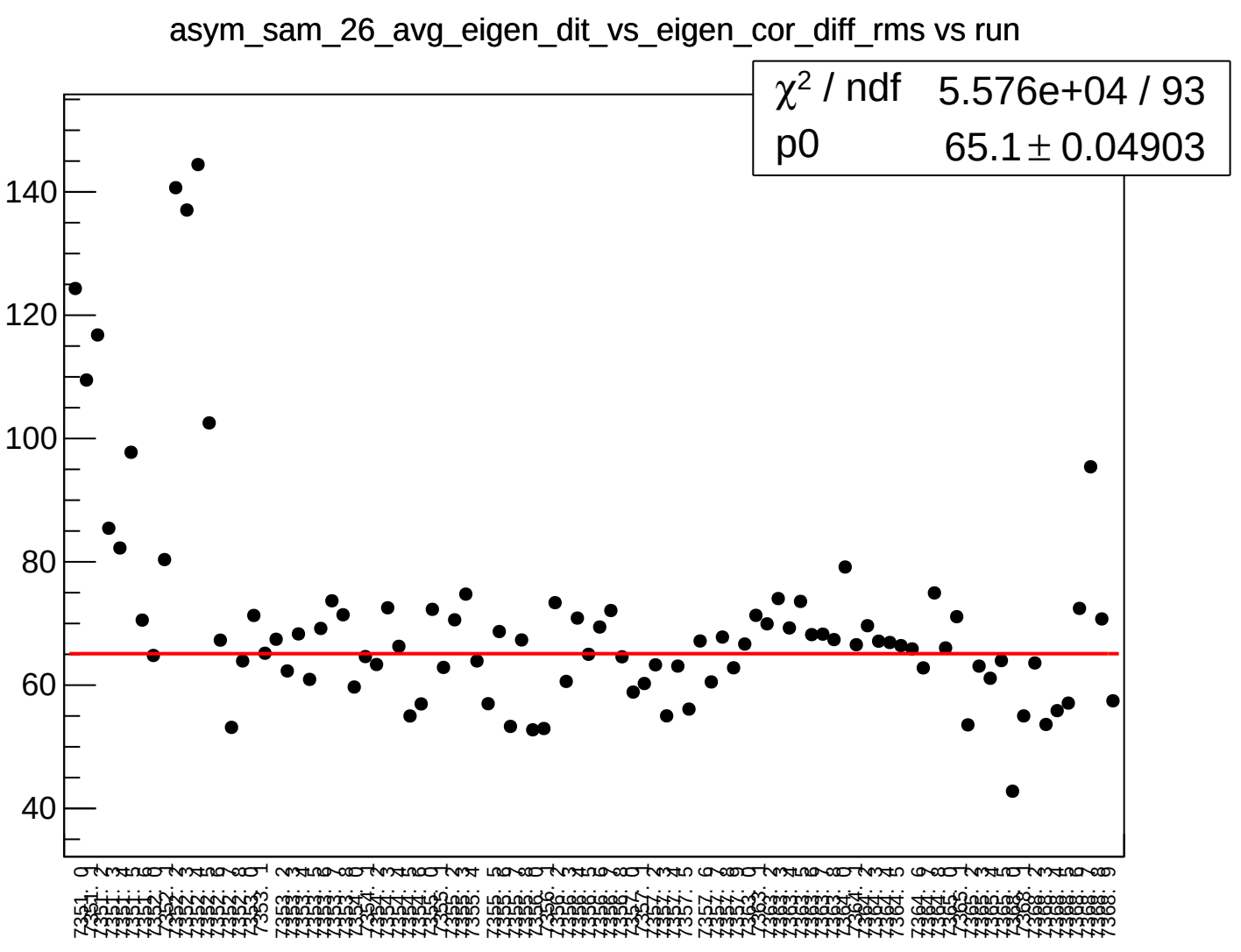

asym_sam_26_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 159.1 / 93
p0 −1.097e−05 ± 4.49e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 94
Mean 129.3
Std Dev 0
pull1D
Entries 94
Mean 0.03204
Std Dev 1.301
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

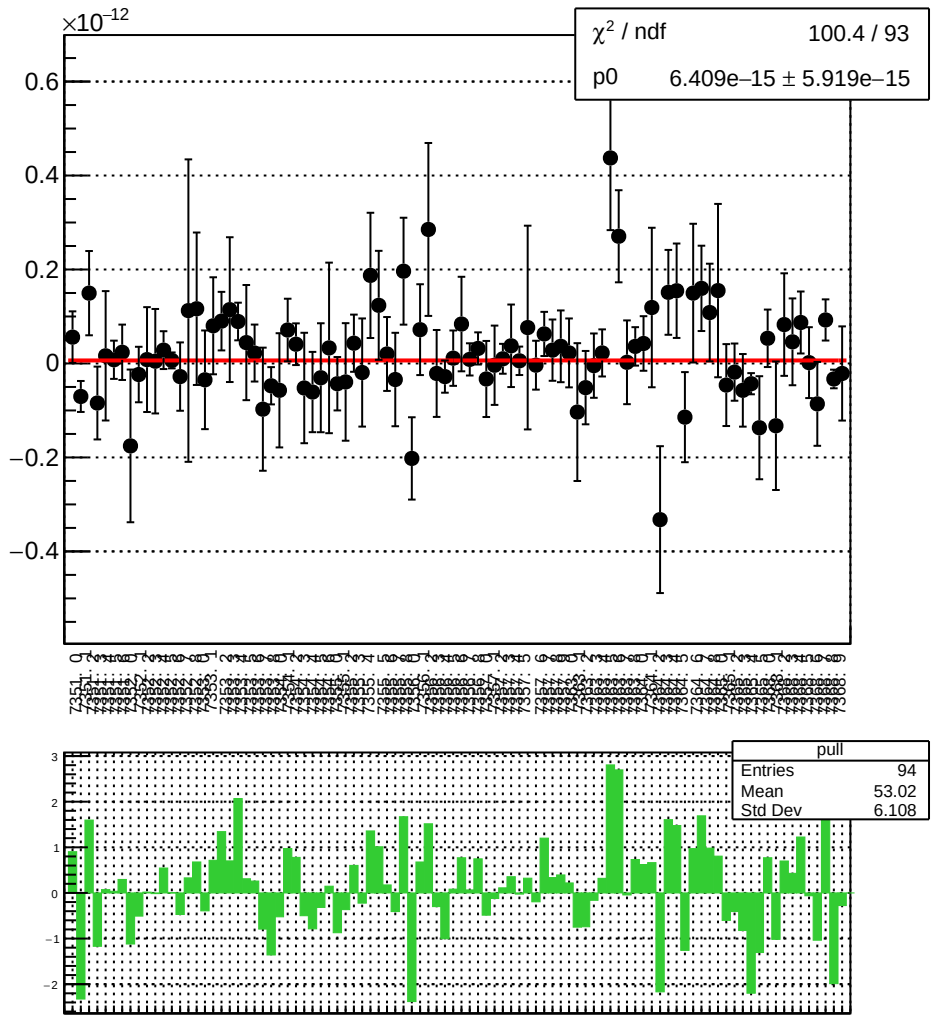

asym_sam_26_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.128e+05 / 93
p0 0.004023 ± 3.175e−06
0.006
0.005
0.004
0.003
0.002

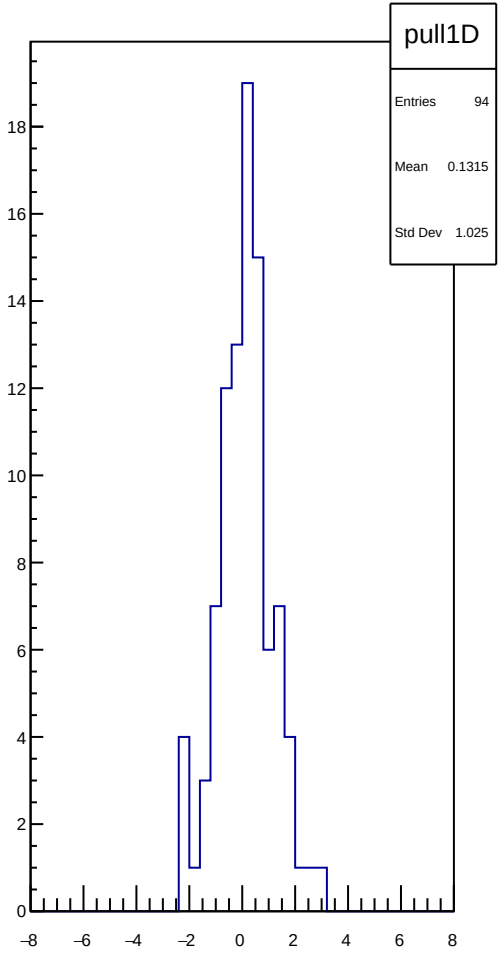

asym_sam_26_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.8 / 93
p0 −0.1461± 0.06934
pull
Entries 94
Mean −198.1
Std Dev 0
pull1D
Entries 94
Mean 0.01201
Std Dev 0.9989

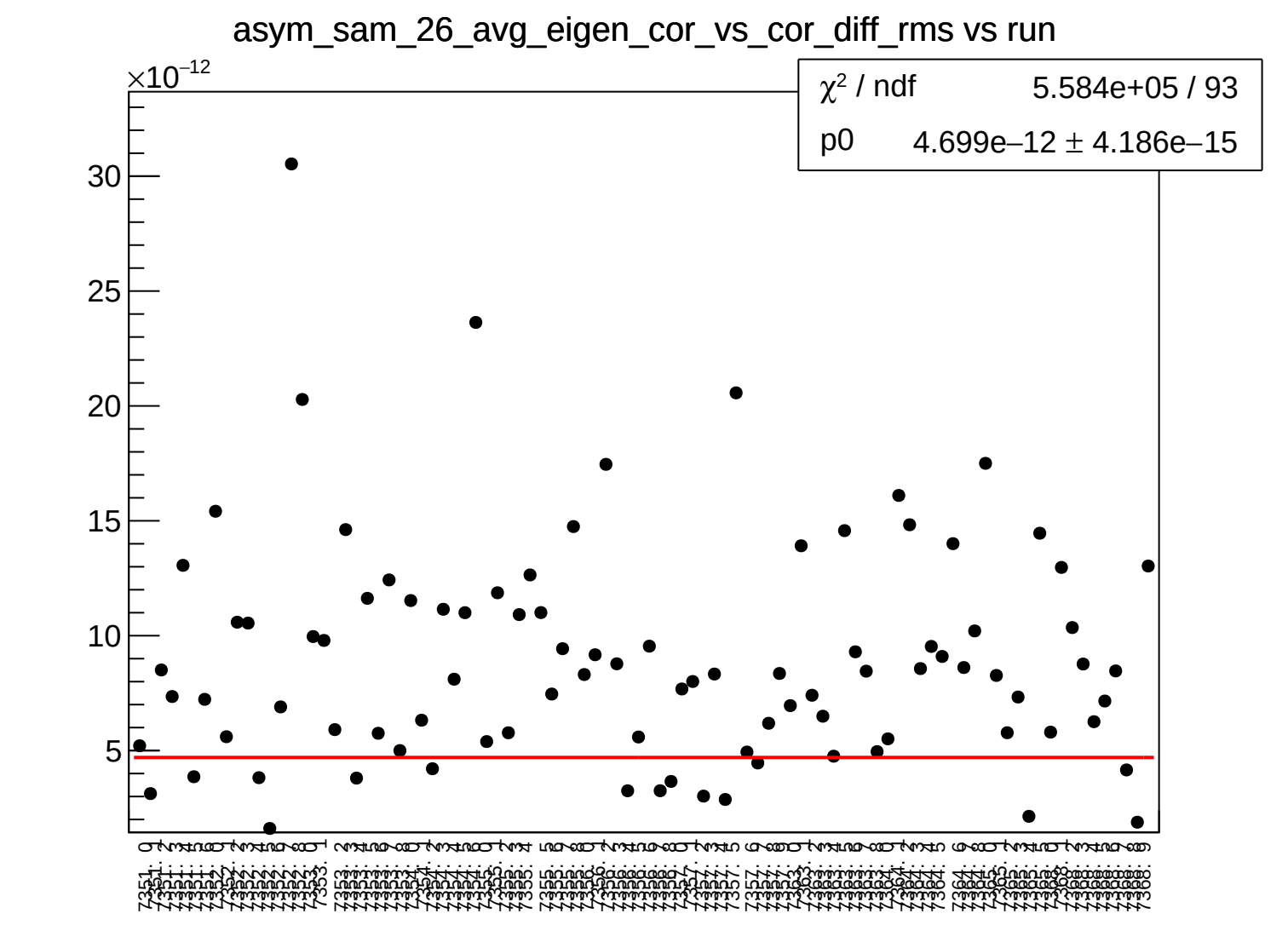

asym_sam_26_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.576e+04 / 93
p0 65.1 ± 0.04903
140
120
100
80
60
40

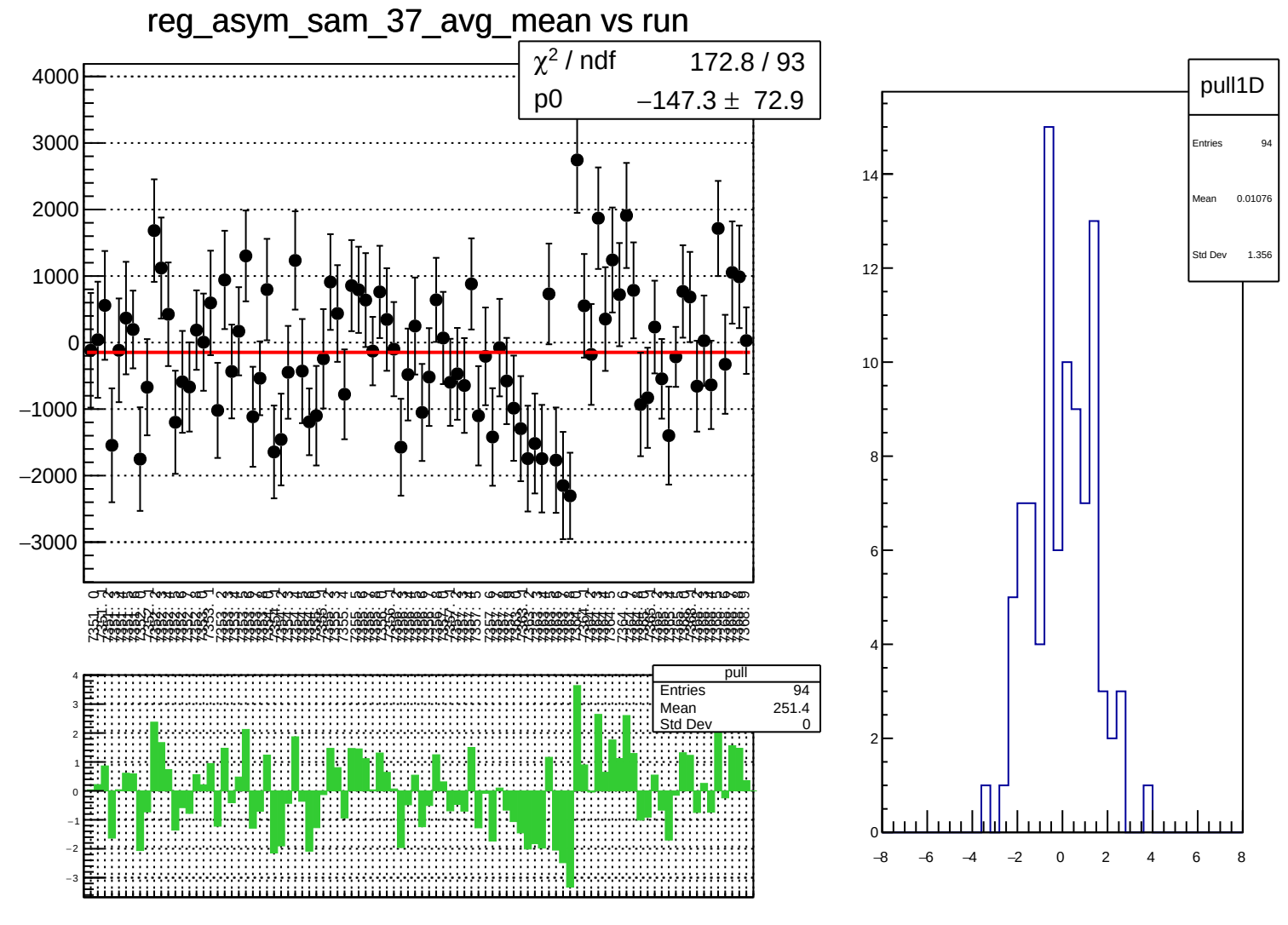

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.8 / 93
p0 −0.1461± 0.06934
pull
Entries 94
Mean −198.1
Std Dev 0
pull1D
Entries 94
Mean 0.01201
Std Dev 0.9989

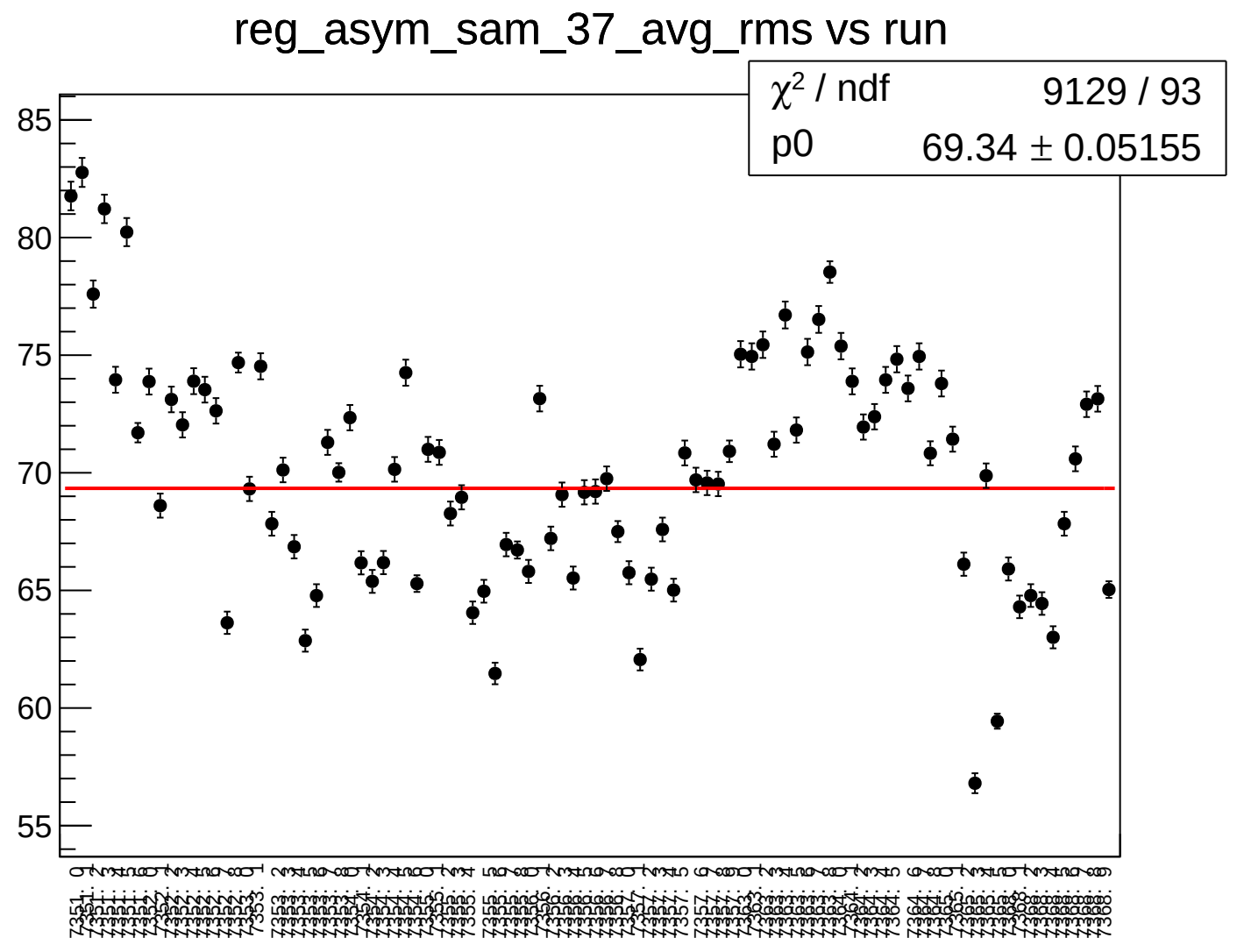

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.576e+04 / 93
p0 65.1 ± 0.04903
140
120
100
80
60
40

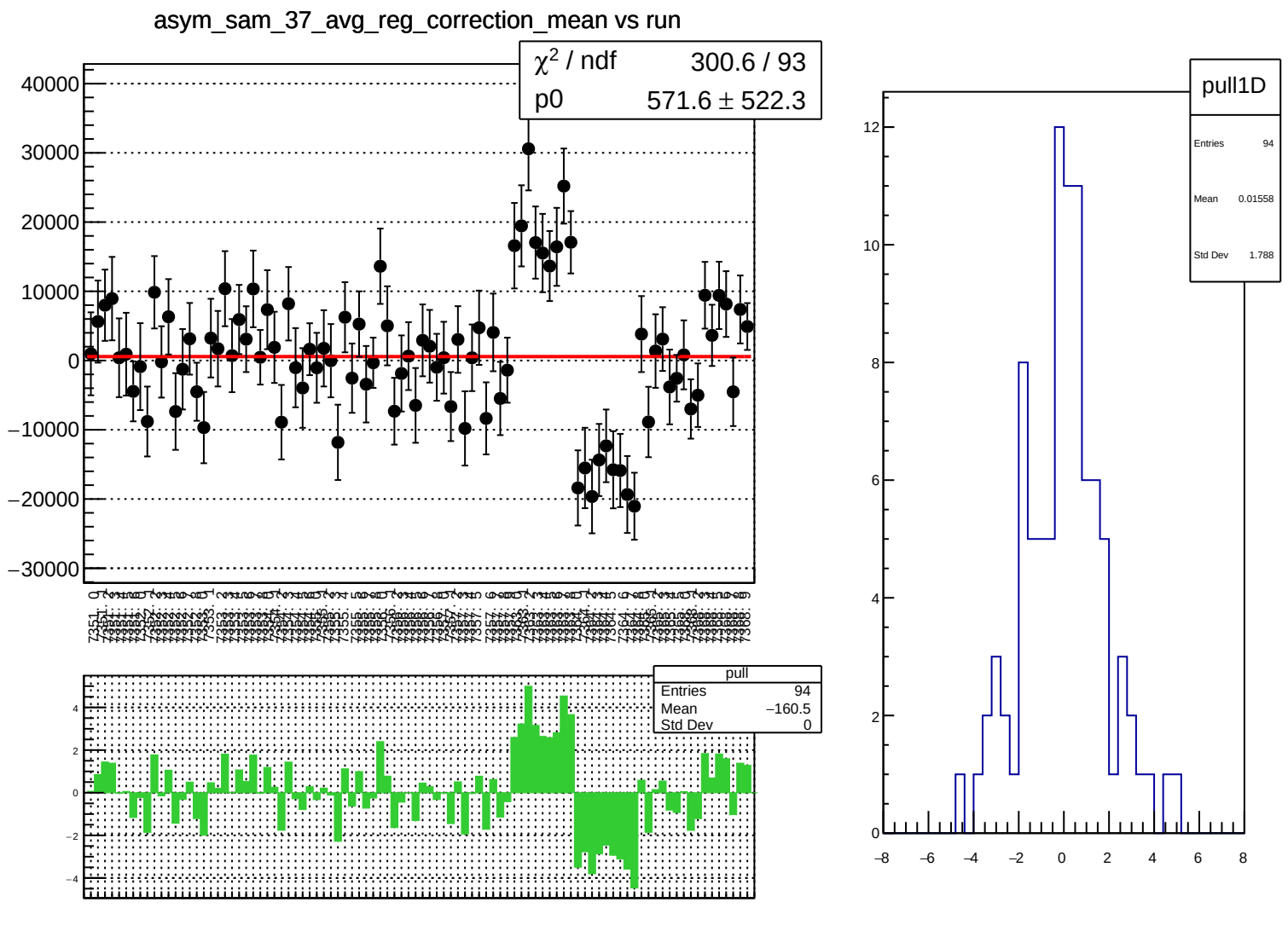

asym_sam_26_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 100.4 / 93
p0 6.409e−15 ± 5.919e−15
0.6
0.4
0.2
0
−0.2
−0.4
pull
Entries 94
Mean 53.02
Std Dev 6.108
3
2
1
0
−1
−2

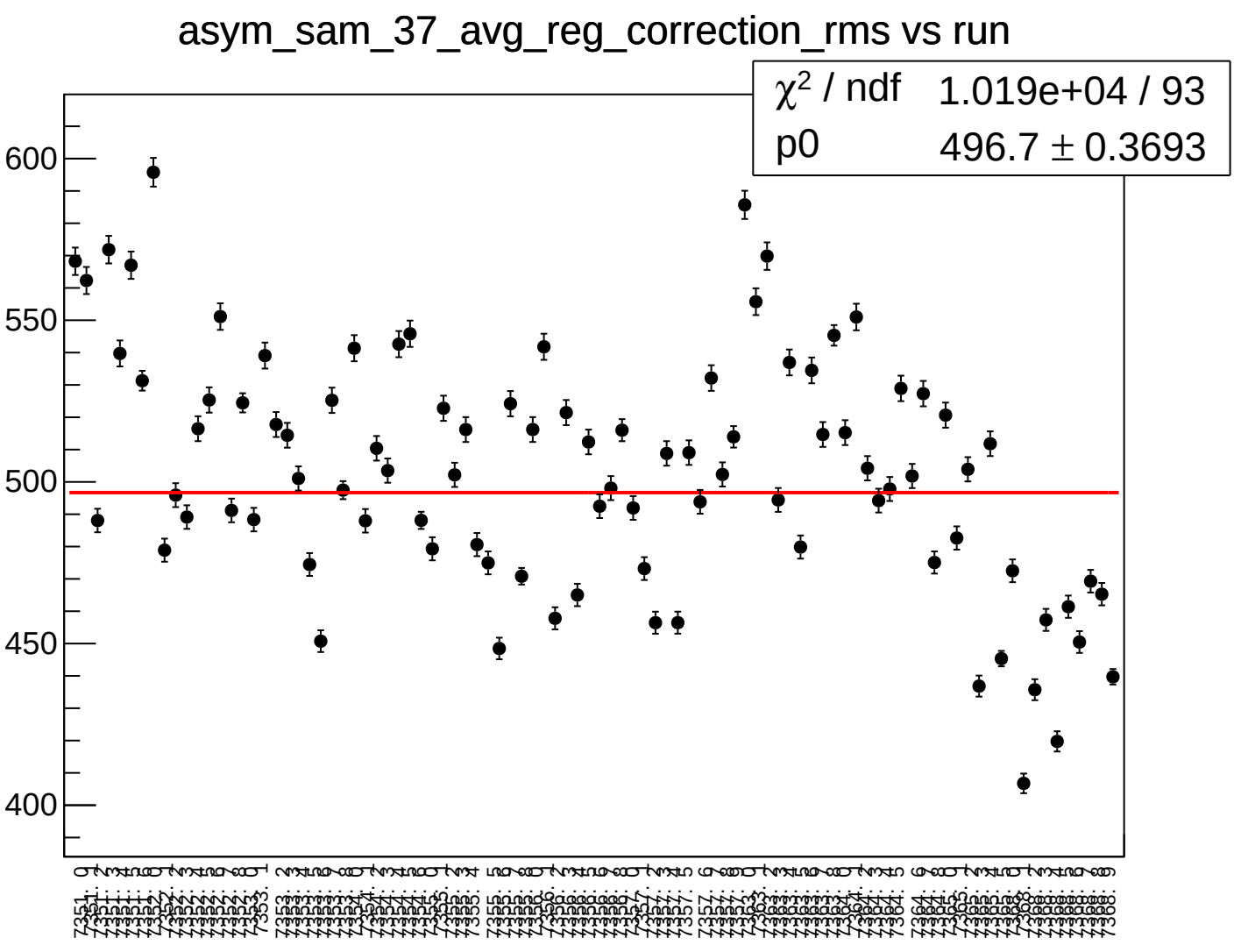

pull1D
Entries 94
Mean 0.1315
Std Dev 1.025
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

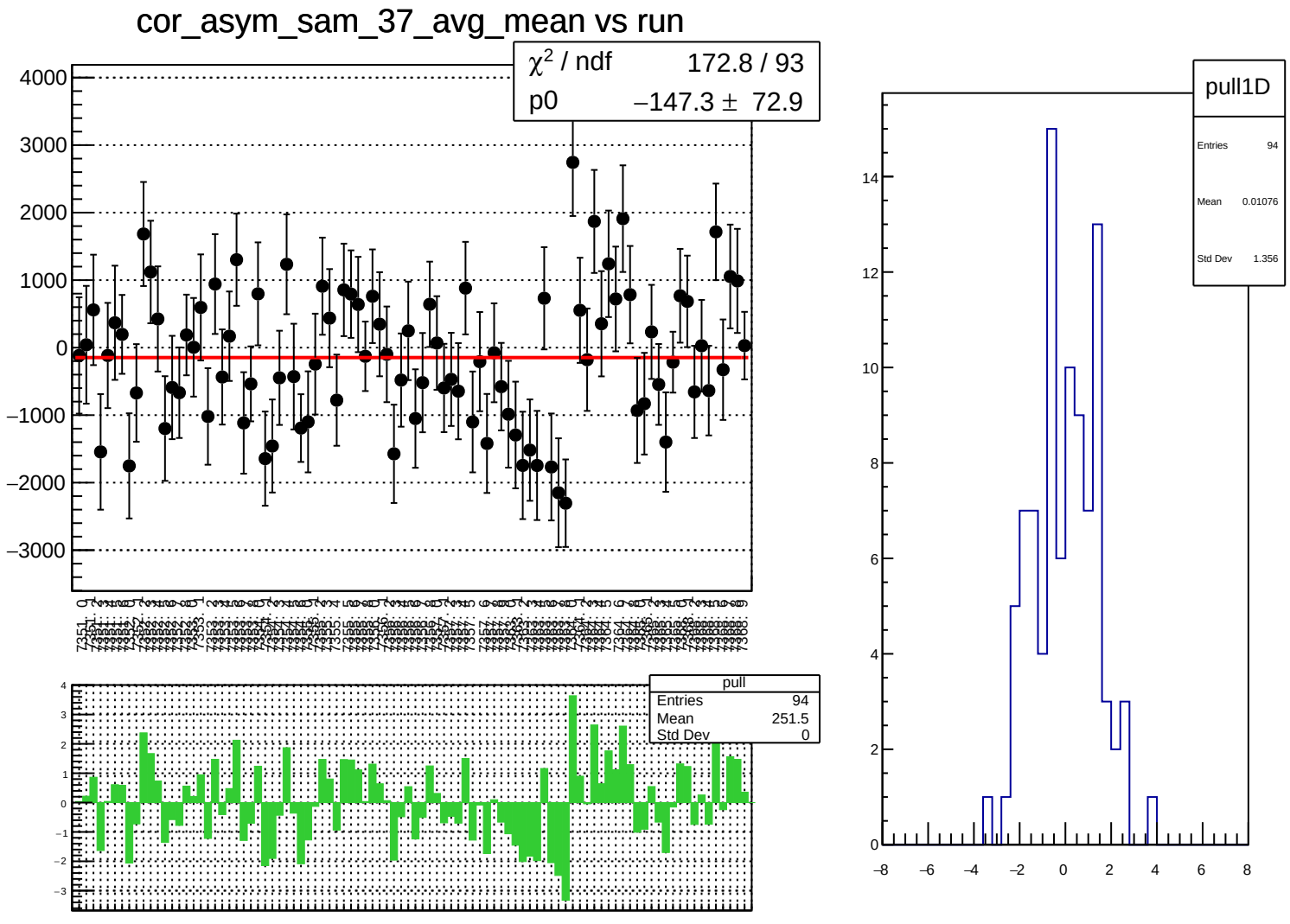

asym_sam_26_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.584e+05 / 93
p0 4.699e−12 ± 4.186e−15
30
25
20
15
10
5

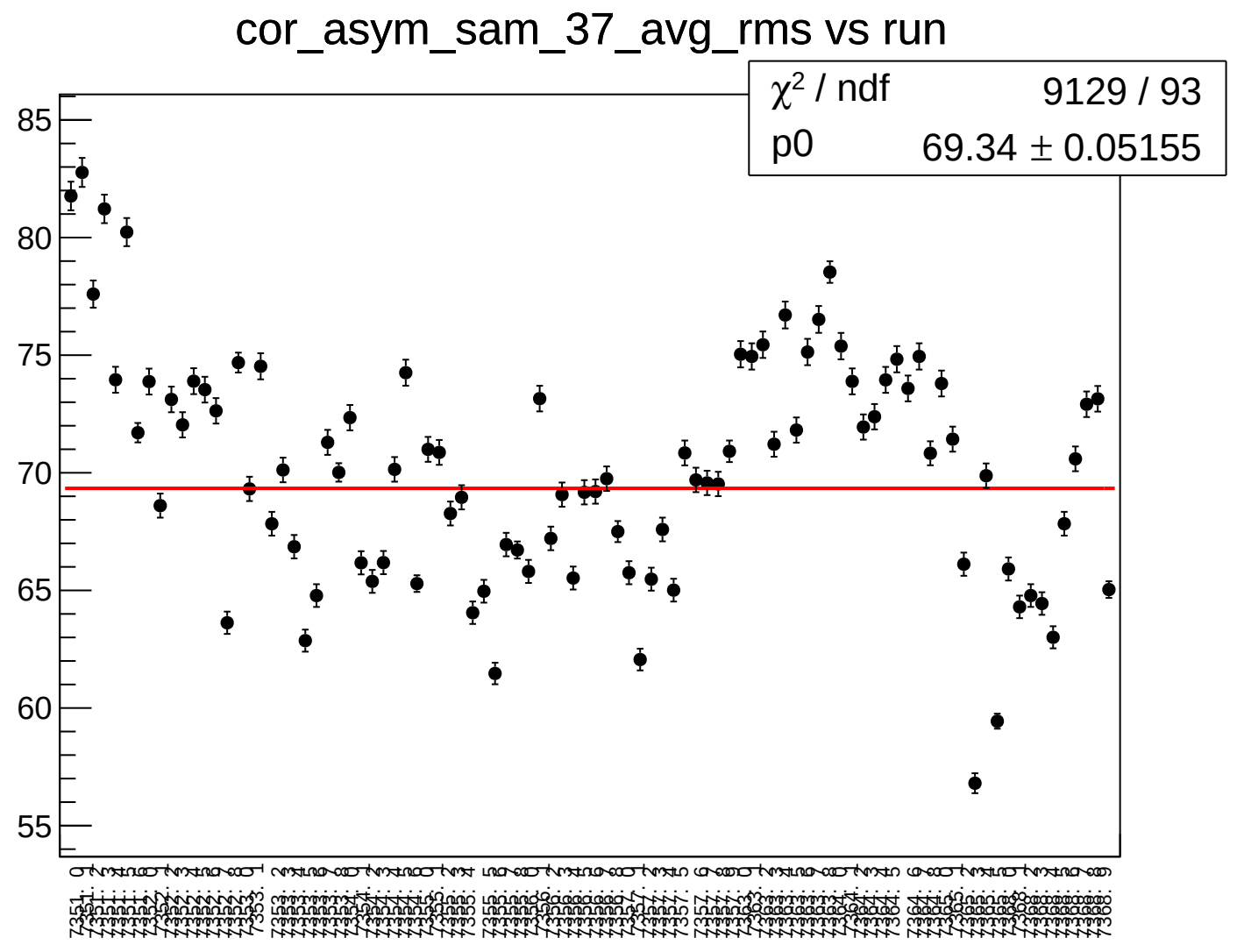

reg_asym_sam_37_avg_mean vs run
χ² / ndf 172.8 / 93
p0 −147.3 ± 72.9
pull
Entries 94
Mean 251.4
Std Dev 0
pull1D
Entries 94
Mean 0.01076
Std Dev 1.356

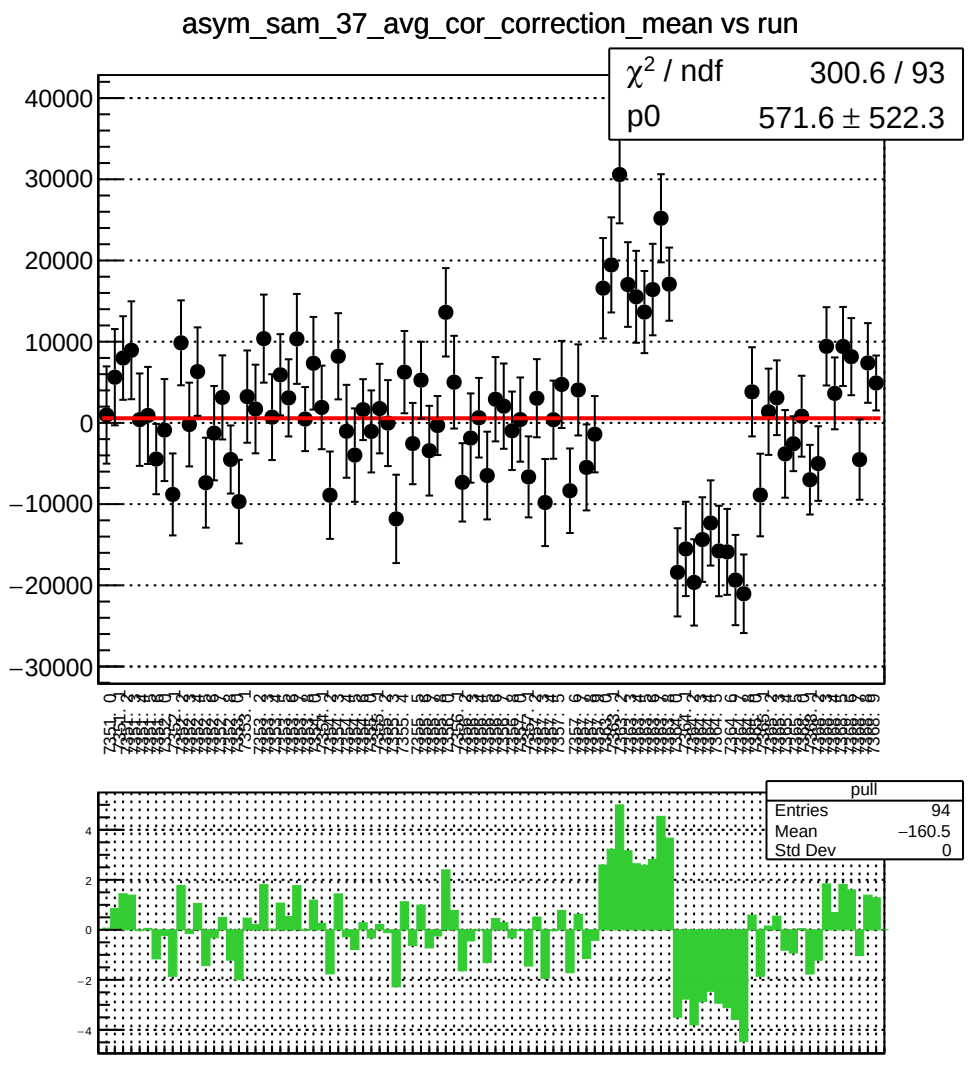

reg_asym_sam_37_avg_rms vs run
χ^2 / ndf 9129 / 93
p0 69.34 ± 0.05155
85
80
75
70
65
60
55

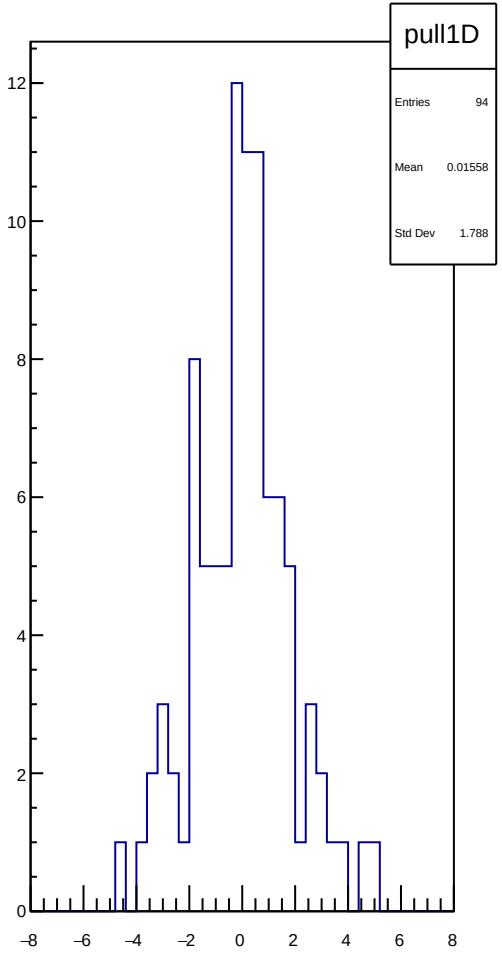

asym_sam_37_avg_reg_correction_mean vs run
χ² / ndf 300.6 / 93
p0 571.6 ± 522.3
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −160.5
Std Dev 0
4
2
0
−2
−4
pull1D
Entries 94
Mean 0.01558
Std Dev 1.788
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

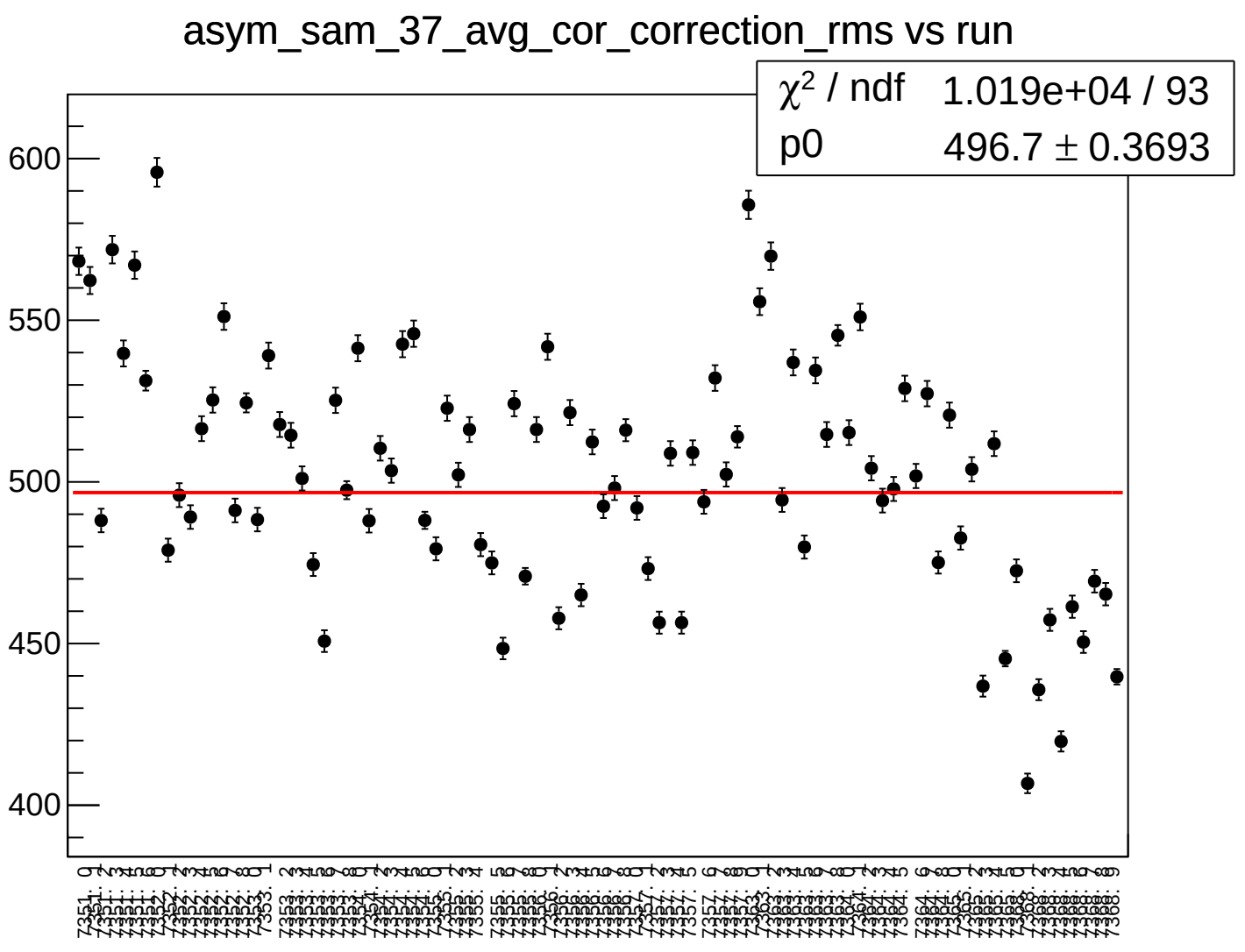

asym_sam_37_avg_reg_correction_rms vs run
χ² / ndf 1.019e+04 / 93
p0 496.7 ± 0.3693
600
550
500
450
400

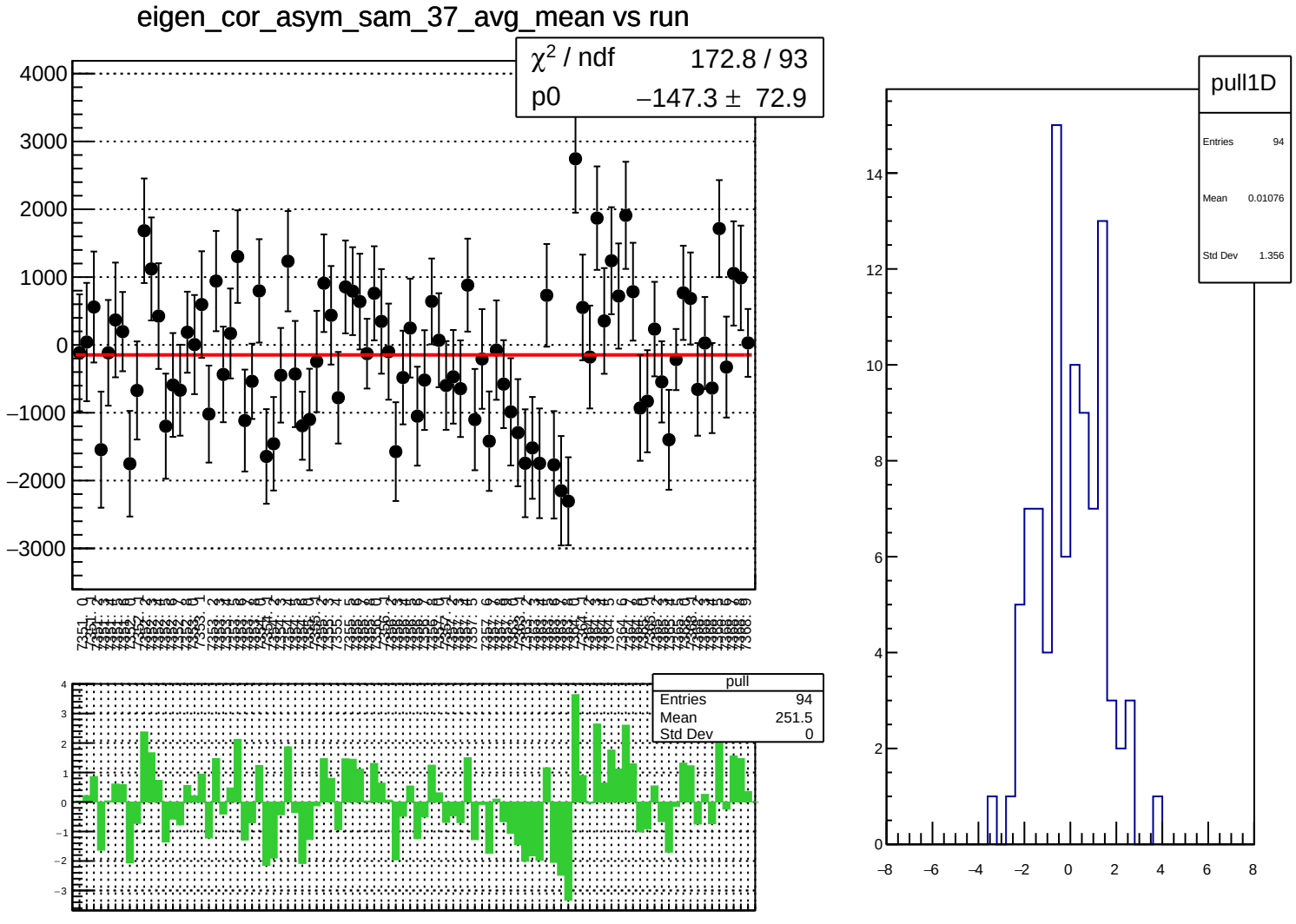

cor_asym_sam_37_avg_mean vs run
χ² / ndf 172.8 / 93
p0 −147.3 ± 72.9
pull
Entries 94
Mean 251.5
Std Dev 0
pull1D
Entries 94
Mean 0.01076
Std Dev 1.356

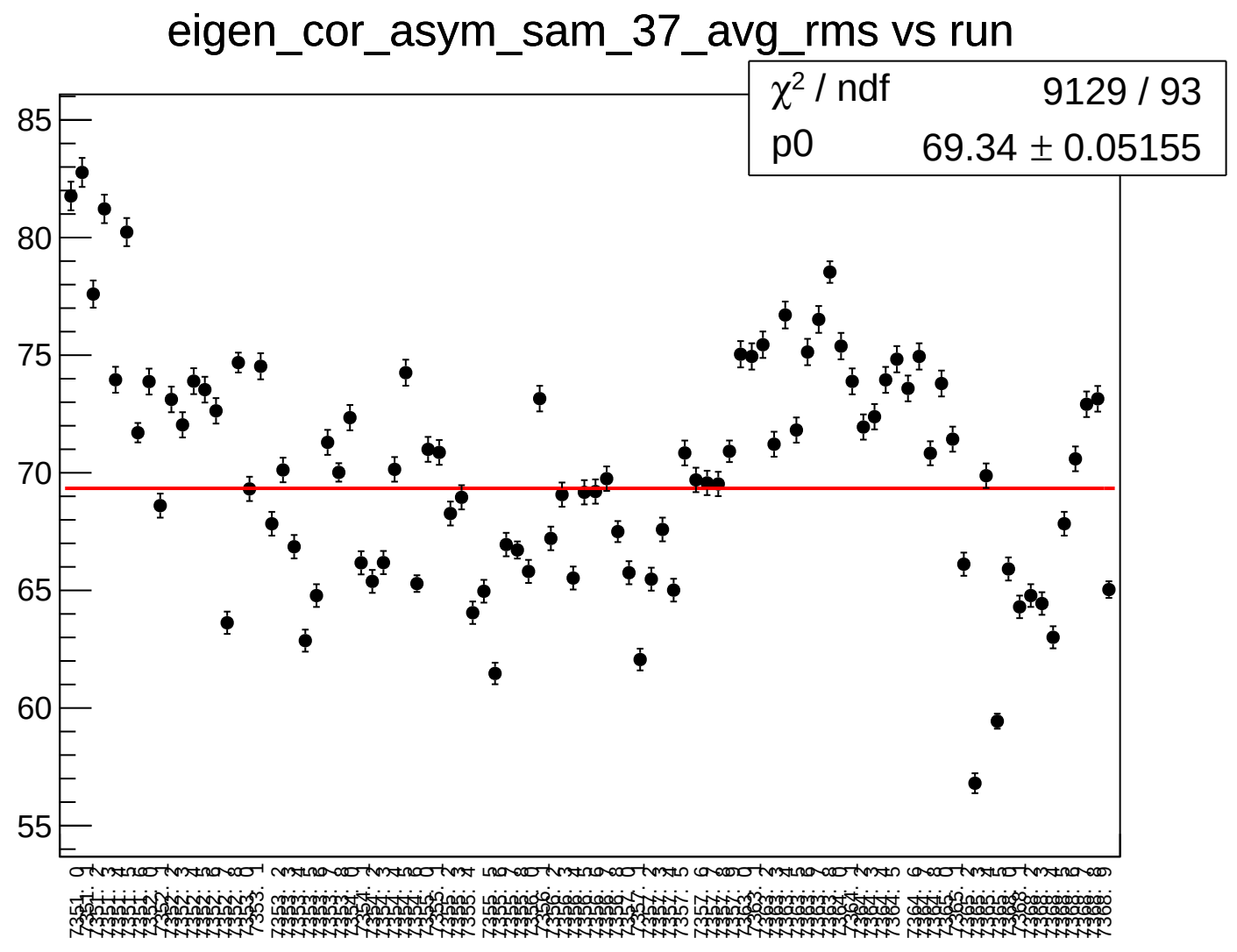

cor_asym_sam_37_avg_rms vs run
χ^2 / ndf 9129 / 93
p0 69.34 ± 0.05155
85
80
75
70
65
60
55

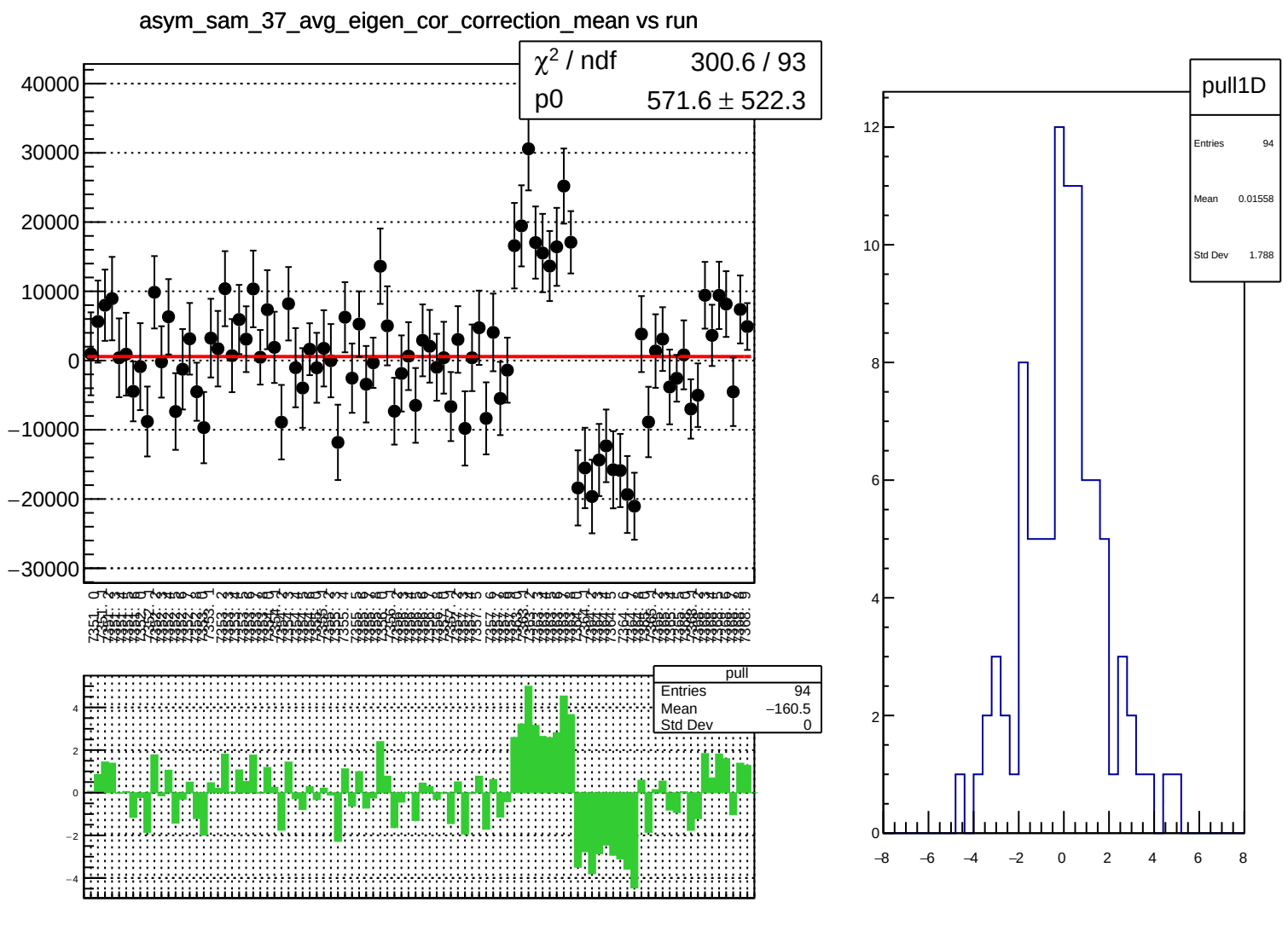

asym_sam_37_avg_cor_correction_mean vs run
χ² / ndf 300.6 / 93
p0 571.6 ± 522.3
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −160.5
Std Dev 0
4
2
0
−2
−4

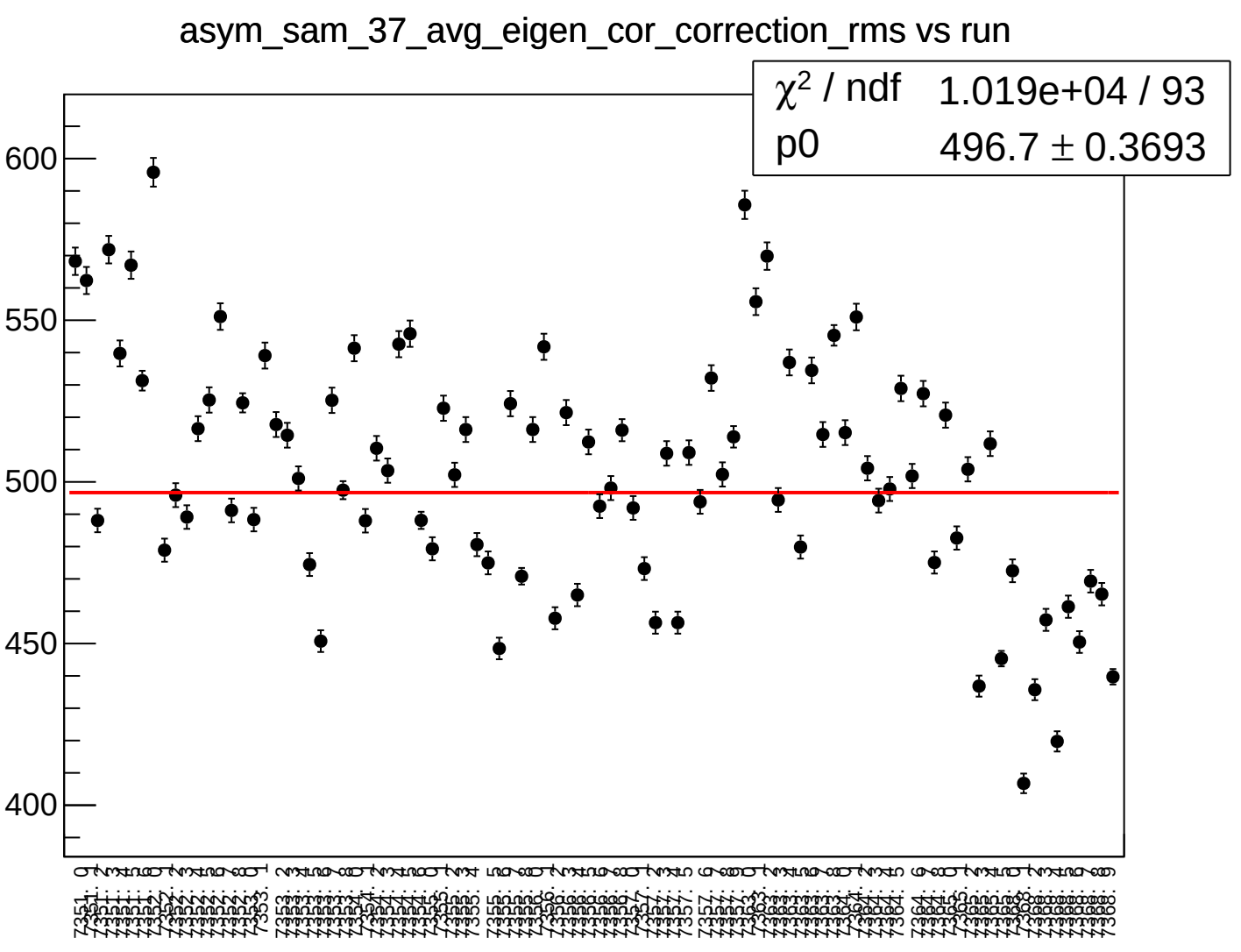

pull1D
Entries 94
Mean 0.01558
Std Dev 1.788
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

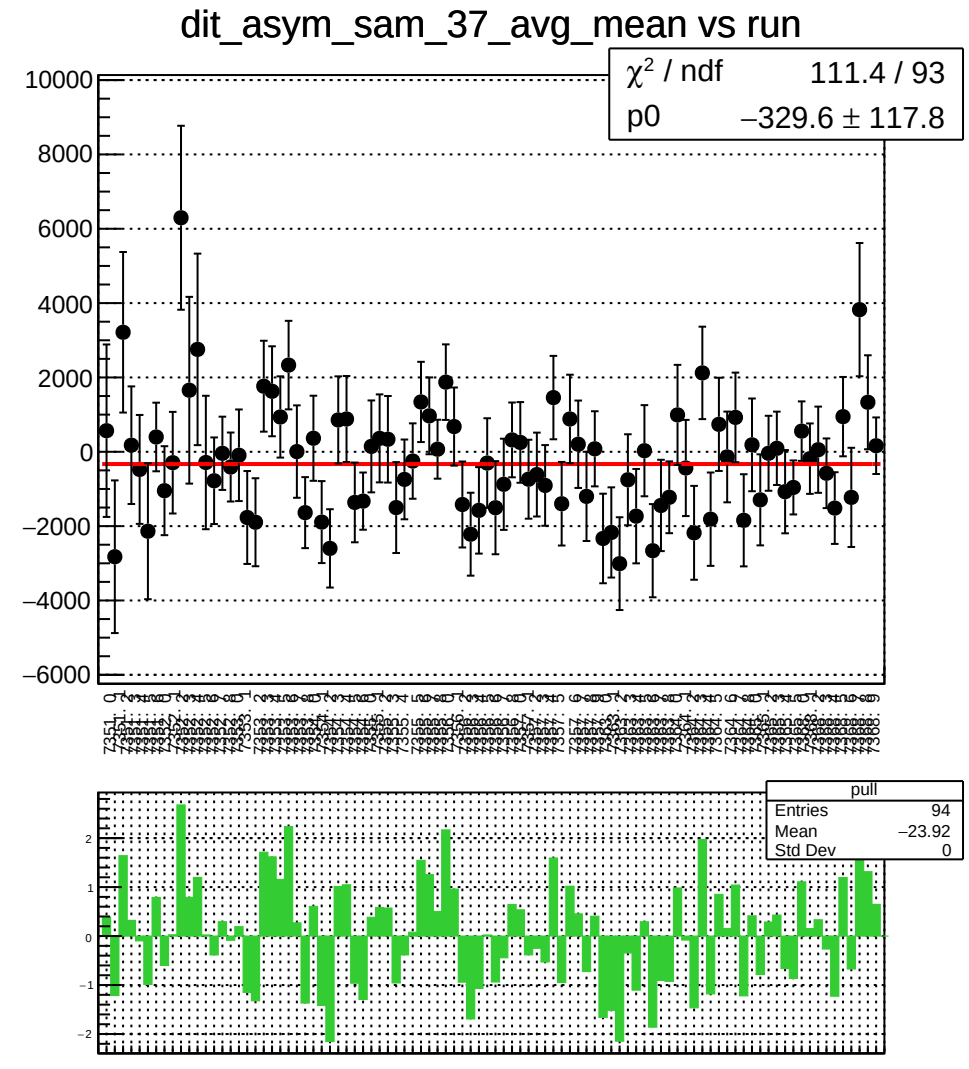

asym_sam_37_avg_cor_correction_rms vs run
χ² / ndf 1.019e+04 / 93
p0 496.7 ± 0.3693
600
550
500
450
400

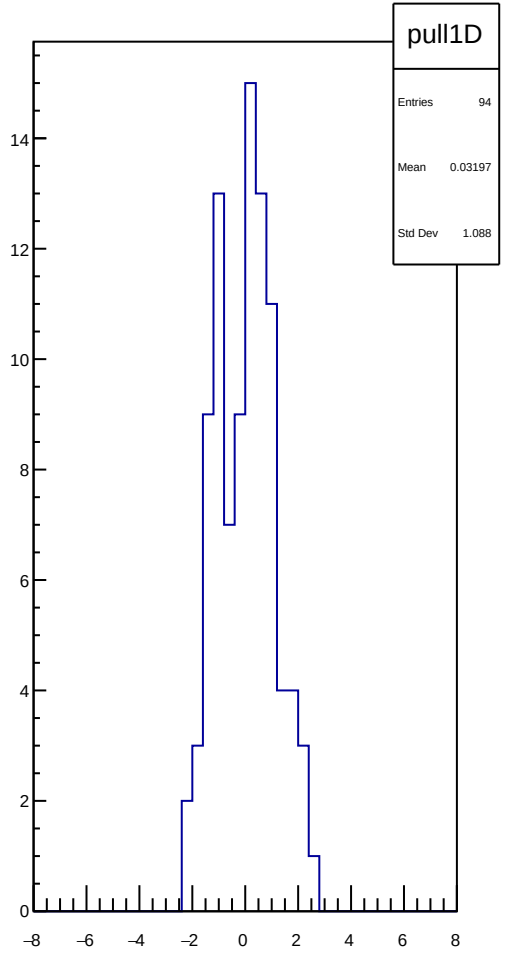

eigen_cor_asym_sam_37_avg_mean vs run
χ² / ndf 172.8 / 93
p0 −147.3 ± 72.9
pull
Entries 94
Mean 251.5
Std Dev 0
pull1D
Entries 94
Mean 0.01076
Std Dev 1.356

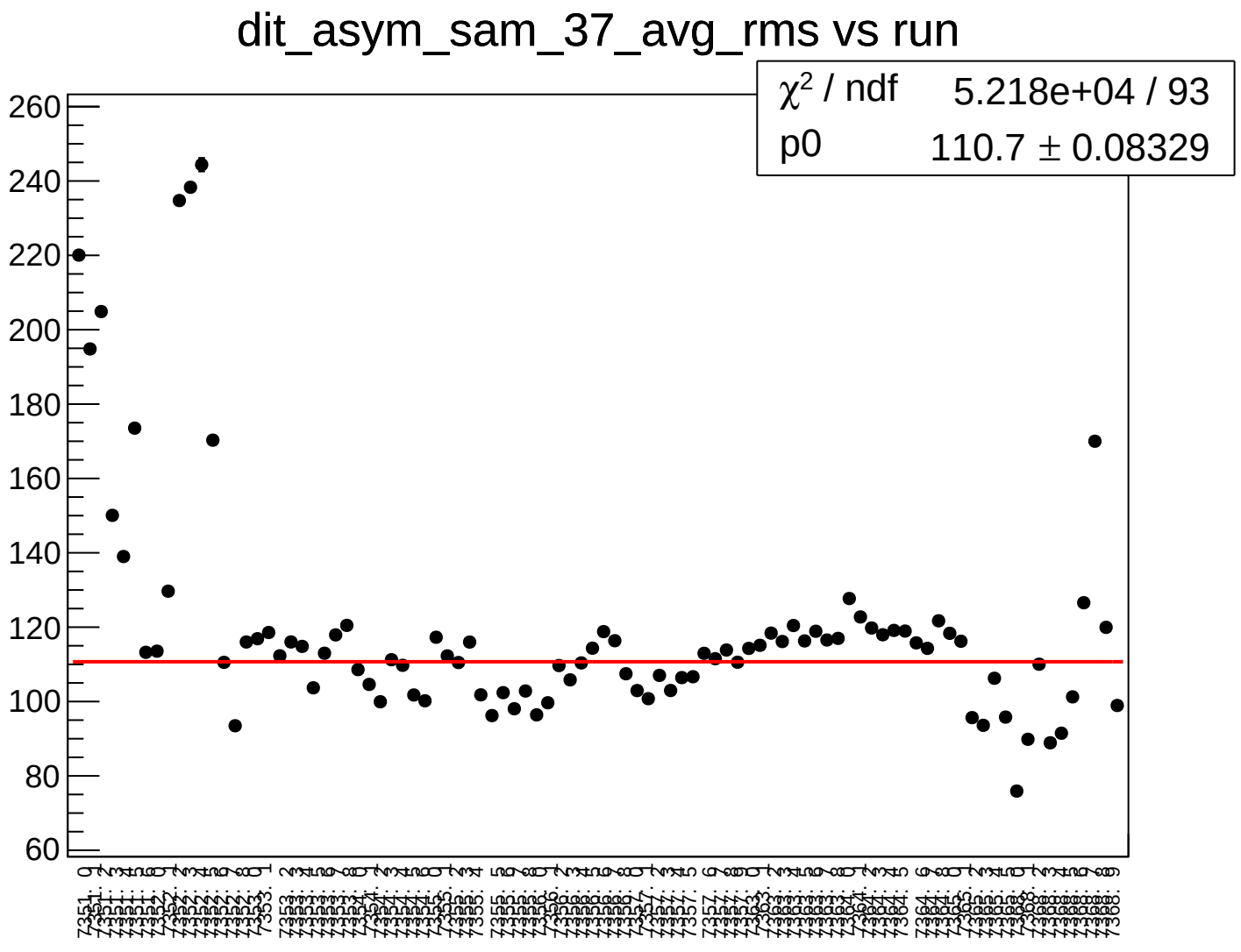

eigen_cor_asym_sam_37_avg_rms vs run
χ² / ndf 9129 / 93
p0 69.34 ± 0.05155
85
80
75
70
65
60
55

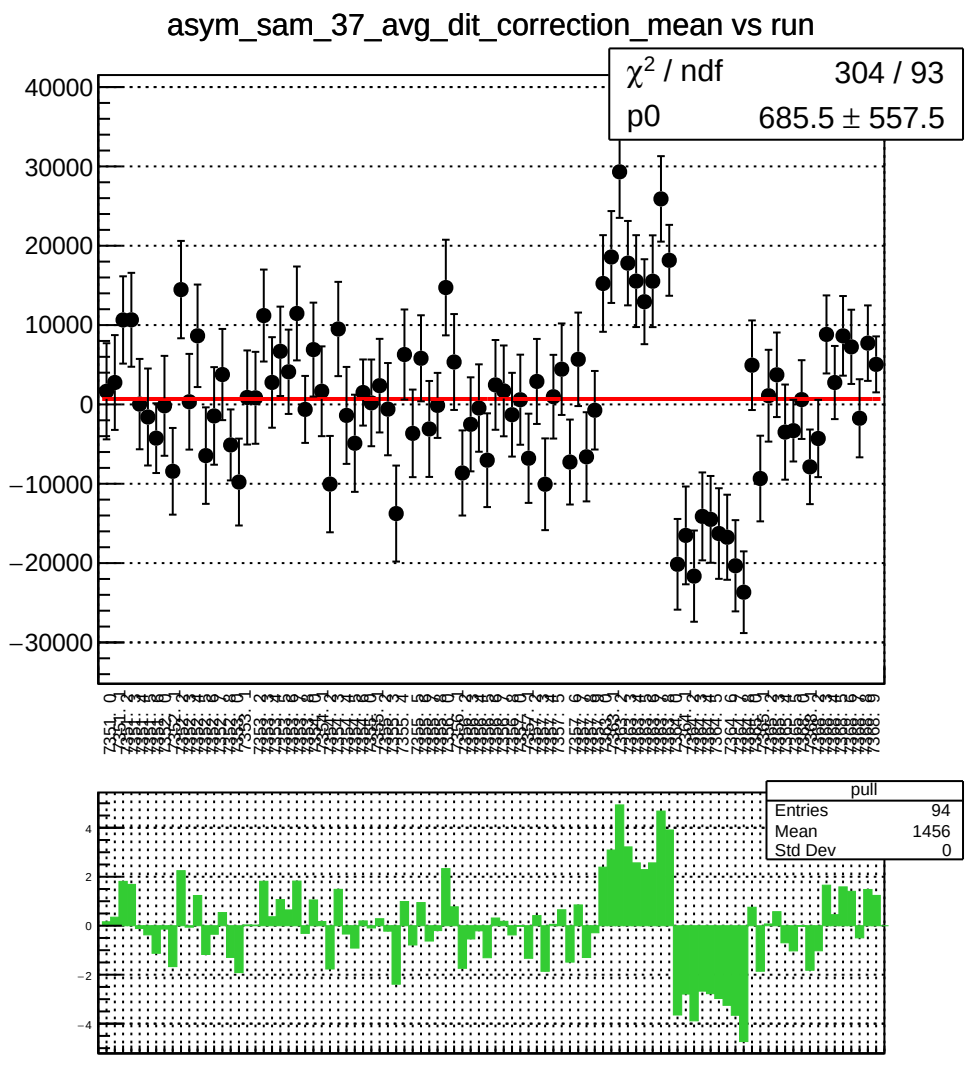

asym_sam_37_avg_eigen_cor_correction_mean vs run
χ² / ndf 300.6 / 93
p0 571.6 ± 522.3
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −160.5
Std Dev 0
4
2
0
−2
−4
pull1D
Entries 94
Mean 0.01558
Std Dev 1.788
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

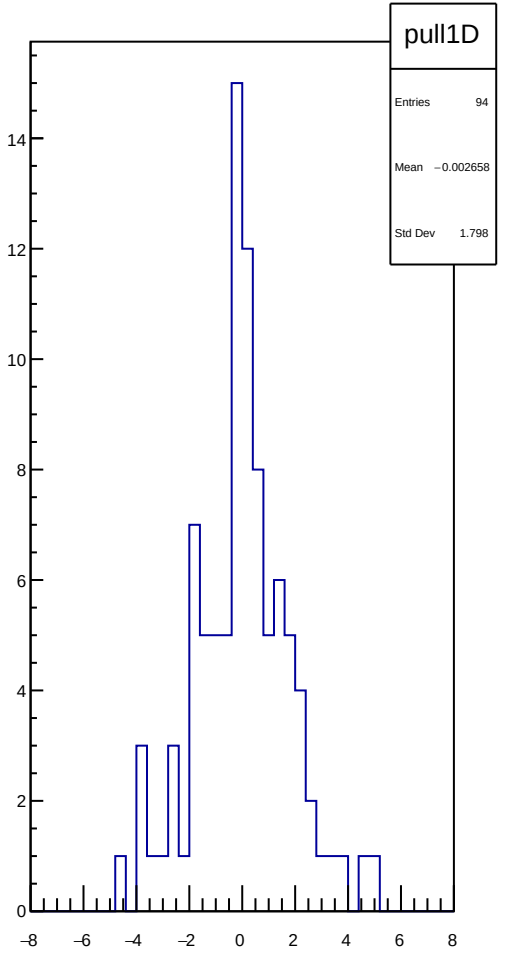

asym_sam_37_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.019e+04 / 93
p0 496.7 ± 0.3693
600
550
500
450
400

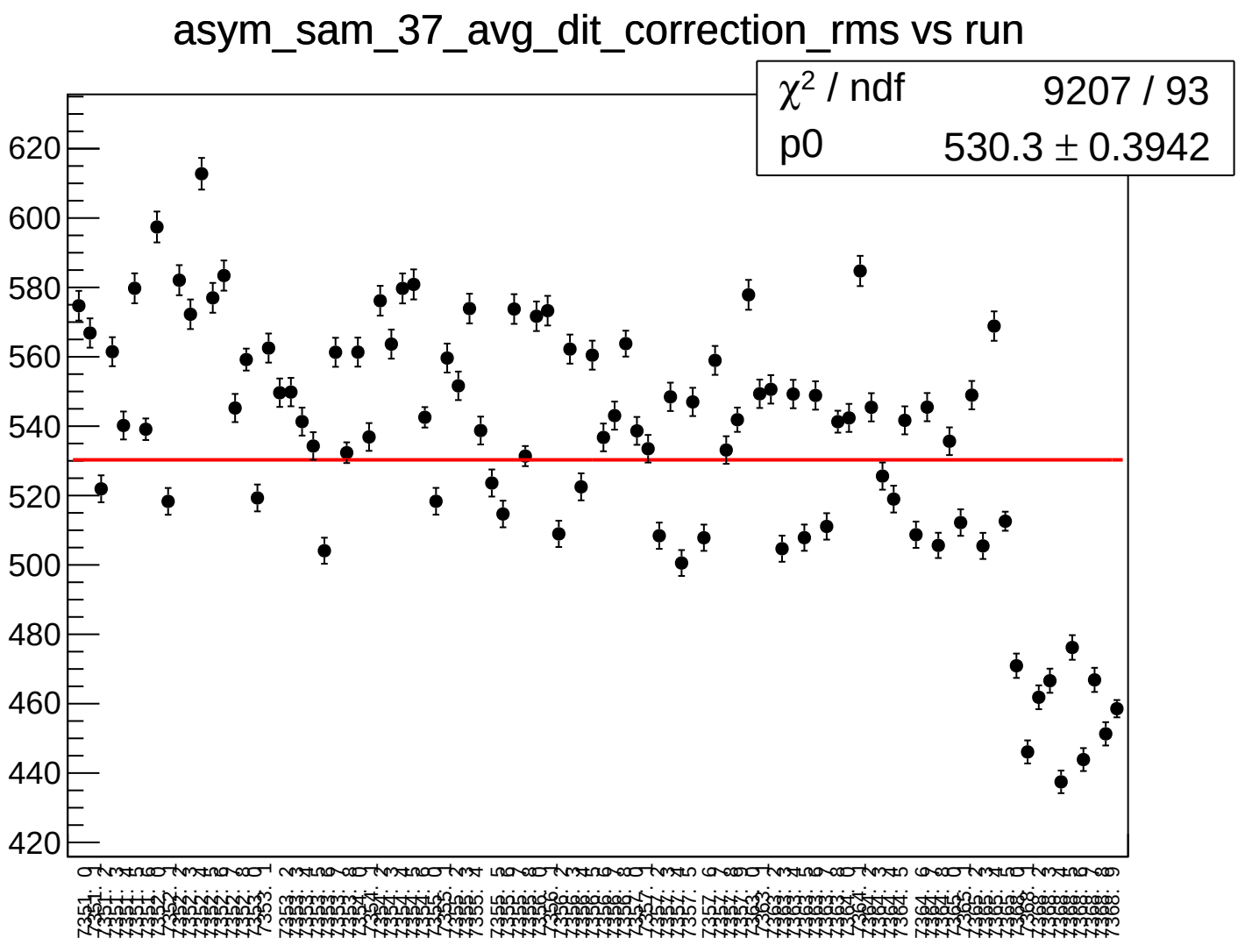

dit_asym_sam_37_avg_mean vs run
χ² / ndf 111.4 / 93
p0 −329.6 ± 117.8
pull
Entries 94
Mean −23.92
Std Dev 0

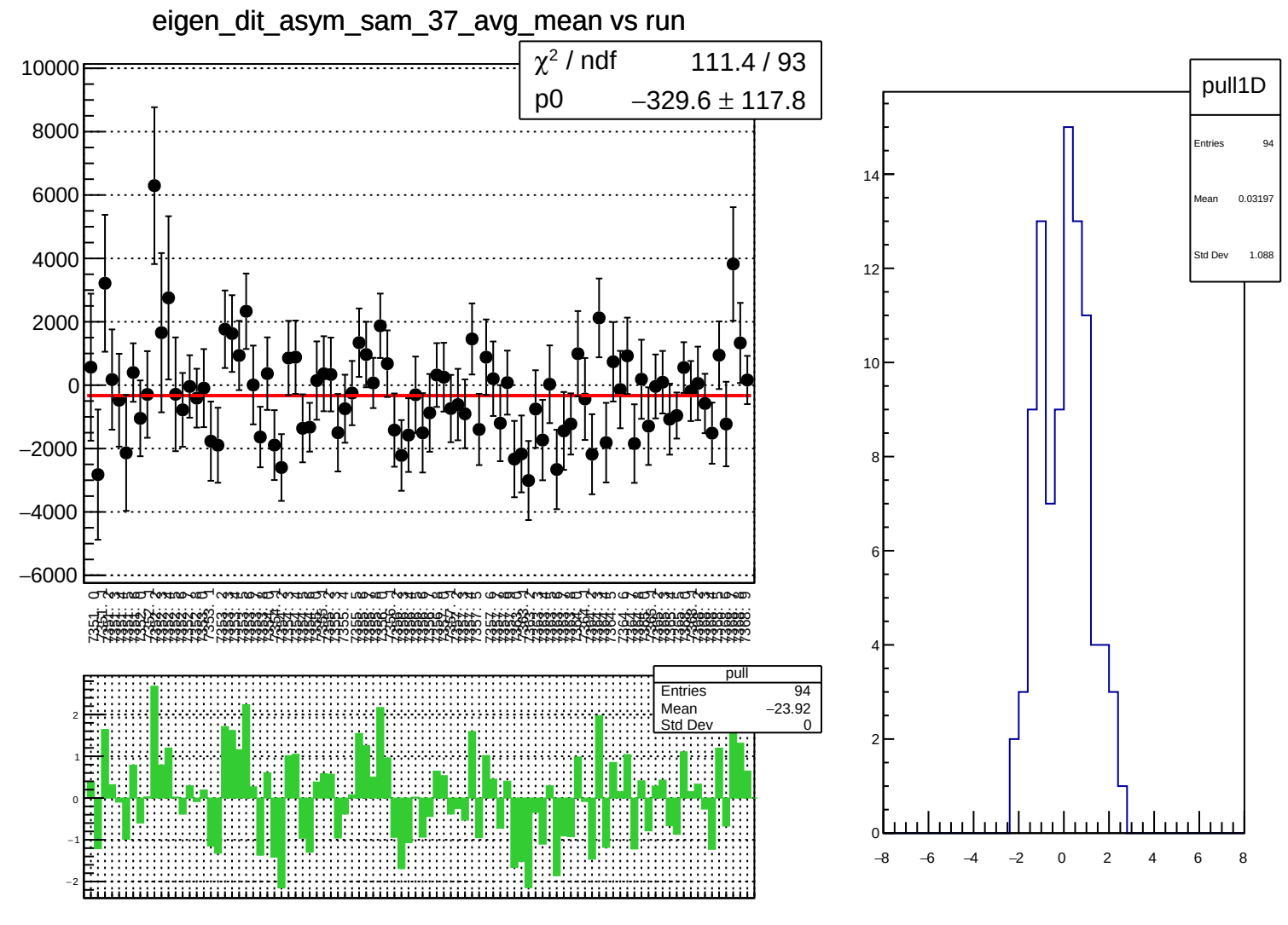

pull1D
Entries 94
Mean 0.03197
Std Dev 1.088

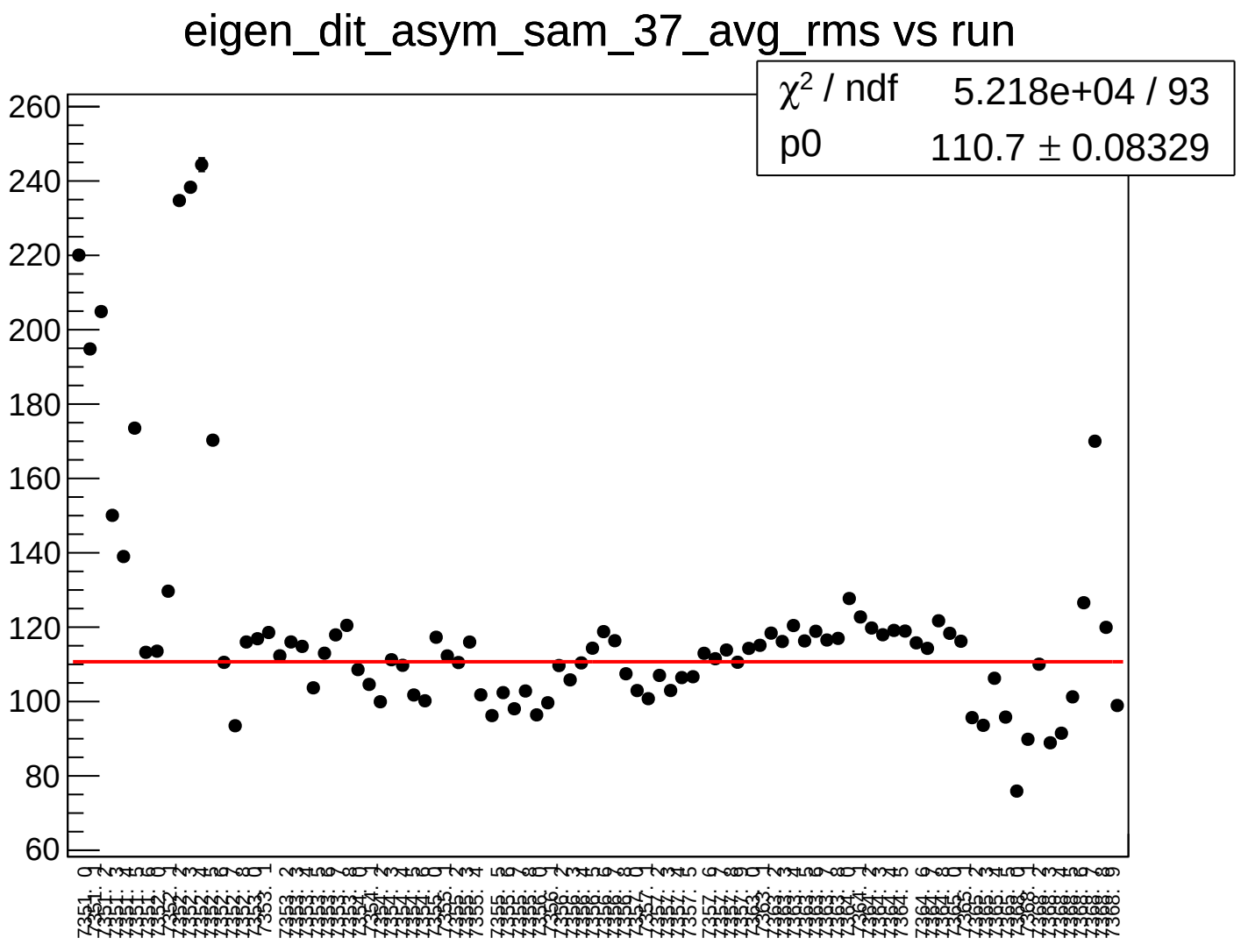

dit_asym_sam_37_avg_rms vs run
χ^2 / ndf 5.218e+04 / 93
p0 110.7 ± 0.08329
260
240
220
200
180
160
140
120
100
80
60

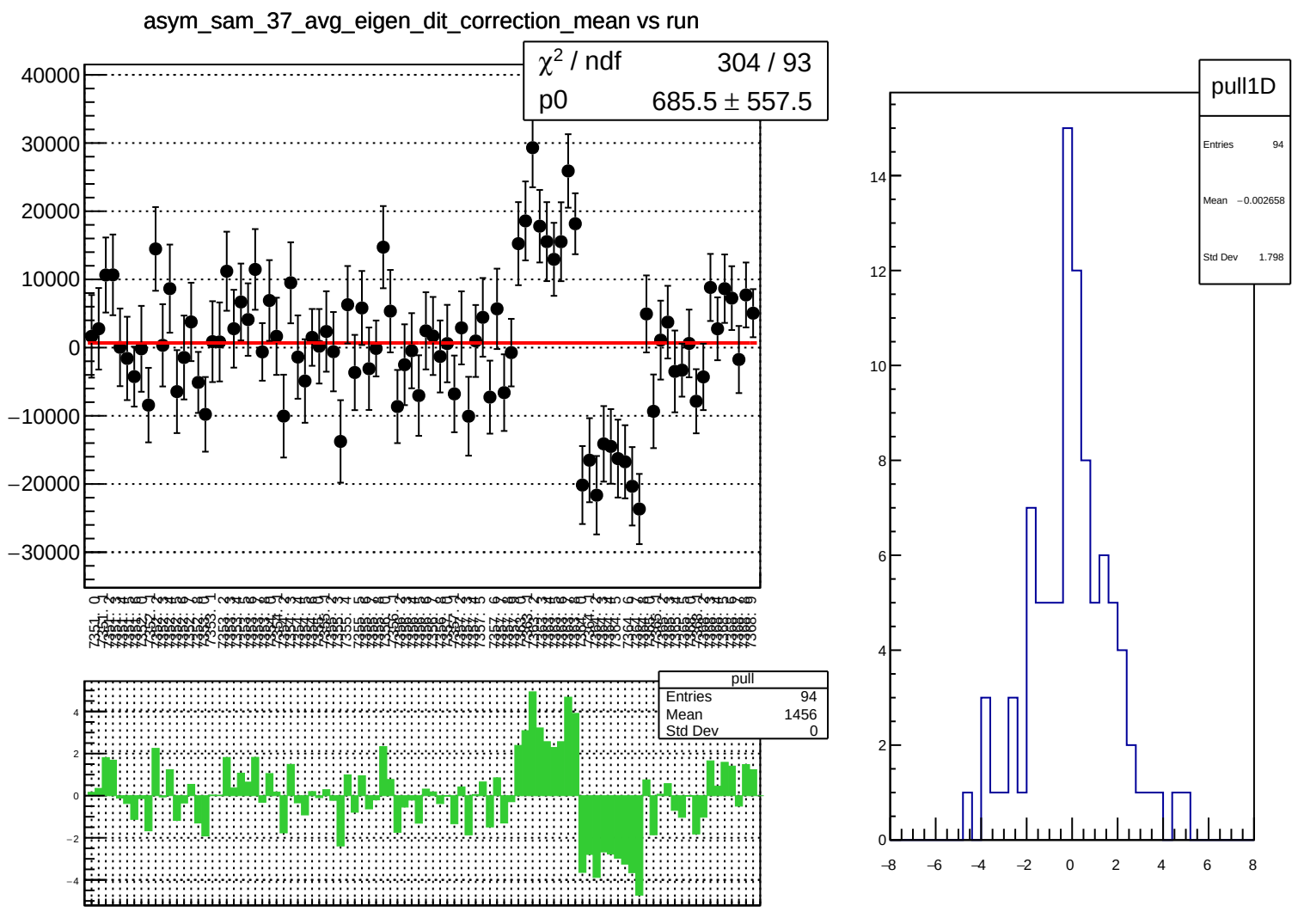

asym_sam_37_avg_dit_correction_mean vs run
χ² / ndf 304 / 93
p0 685.5 ± 557.5
pull
Entries 94
Mean 1456
Std Dev 0

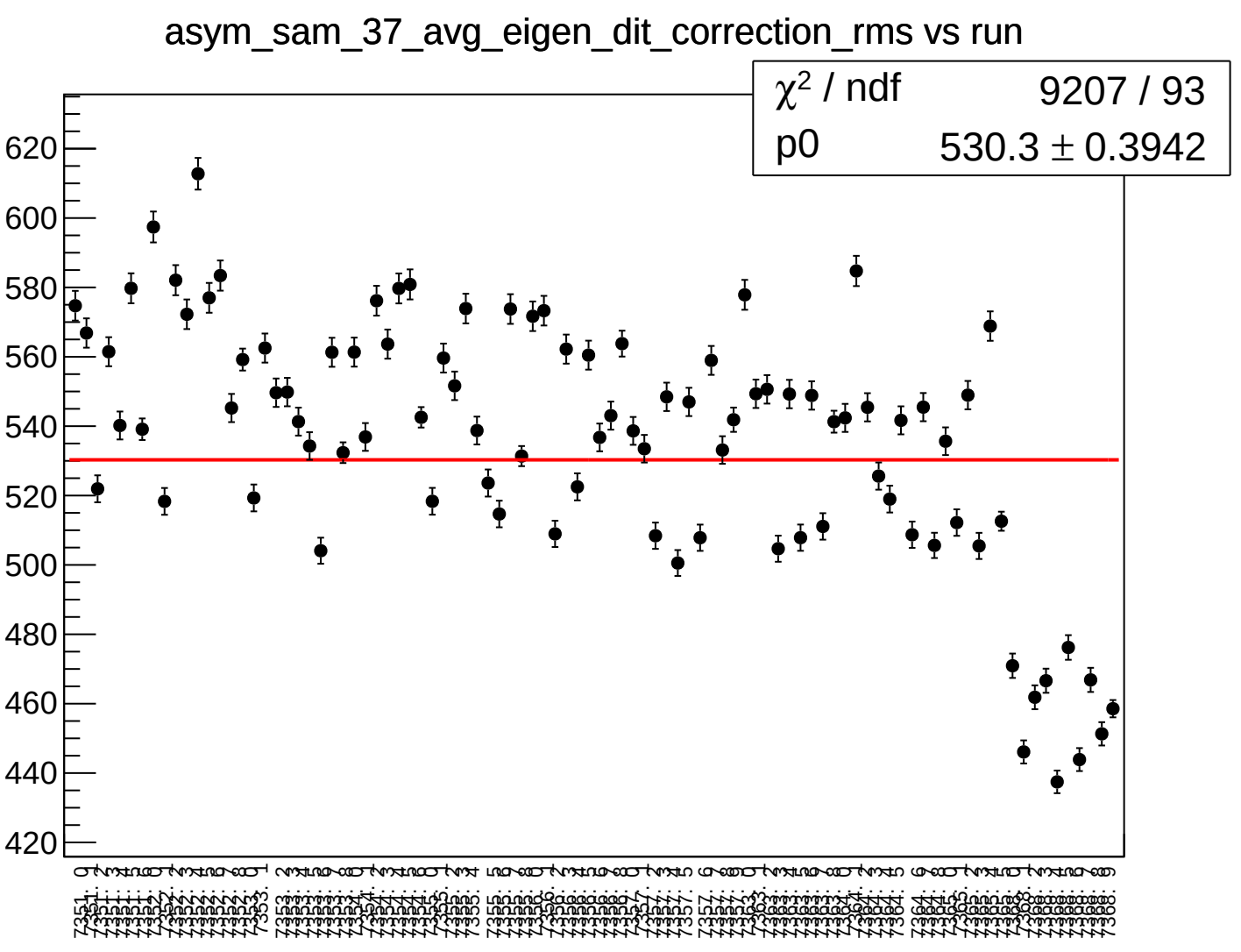

pull1D
Entries 94
Mean −0.002658
Std Dev 1.798

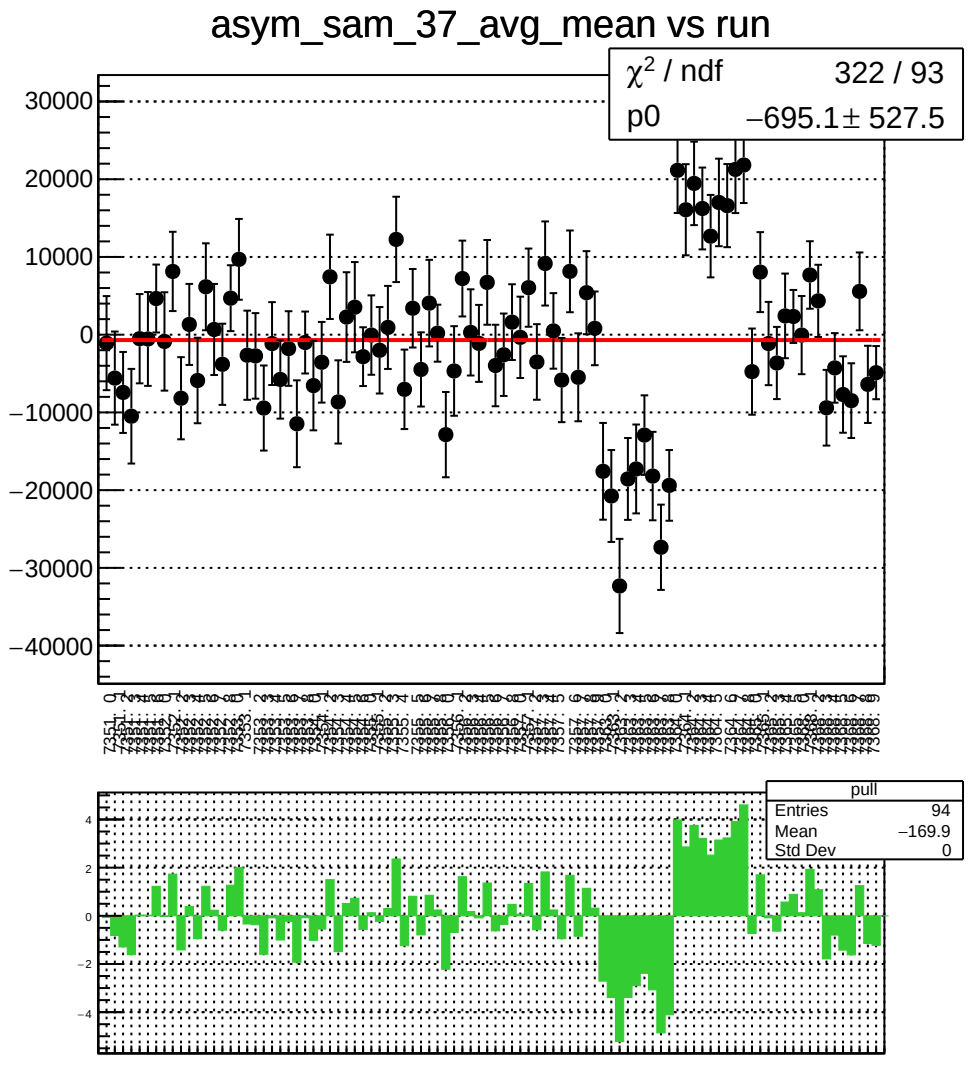

asym_sam_37_avg_dit_correction_rms vs run
χ² / ndf 9207 / 93
p0 530.3 ± 0.3942
620
600
580
560
540
520
500
480
460
440
420

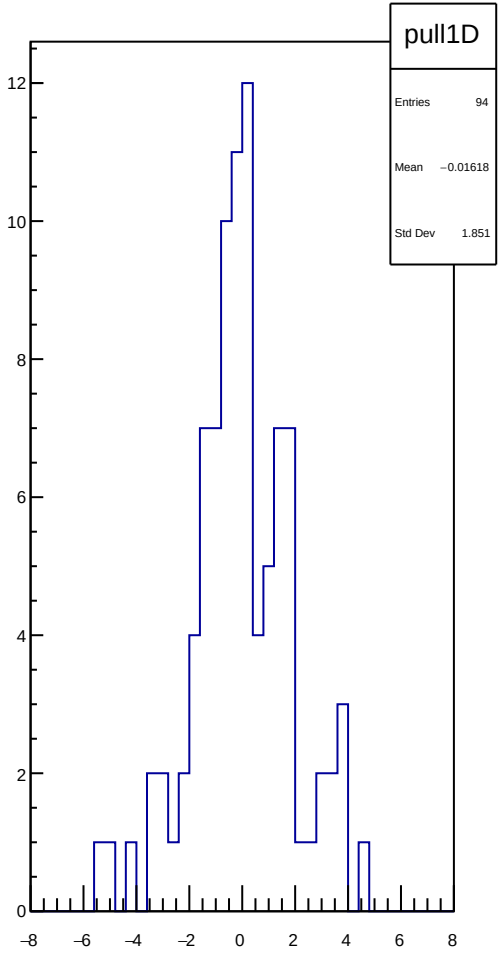

eigen_dit_asym_sam_37_avg_mean vs run
χ² / ndf 111.4 / 93
p0 −329.6 ± 117.8
pull
Entries 94
Mean −23.92
Std Dev 0
pull1D
Entries 94
Mean 0.03197
Std Dev 1.088

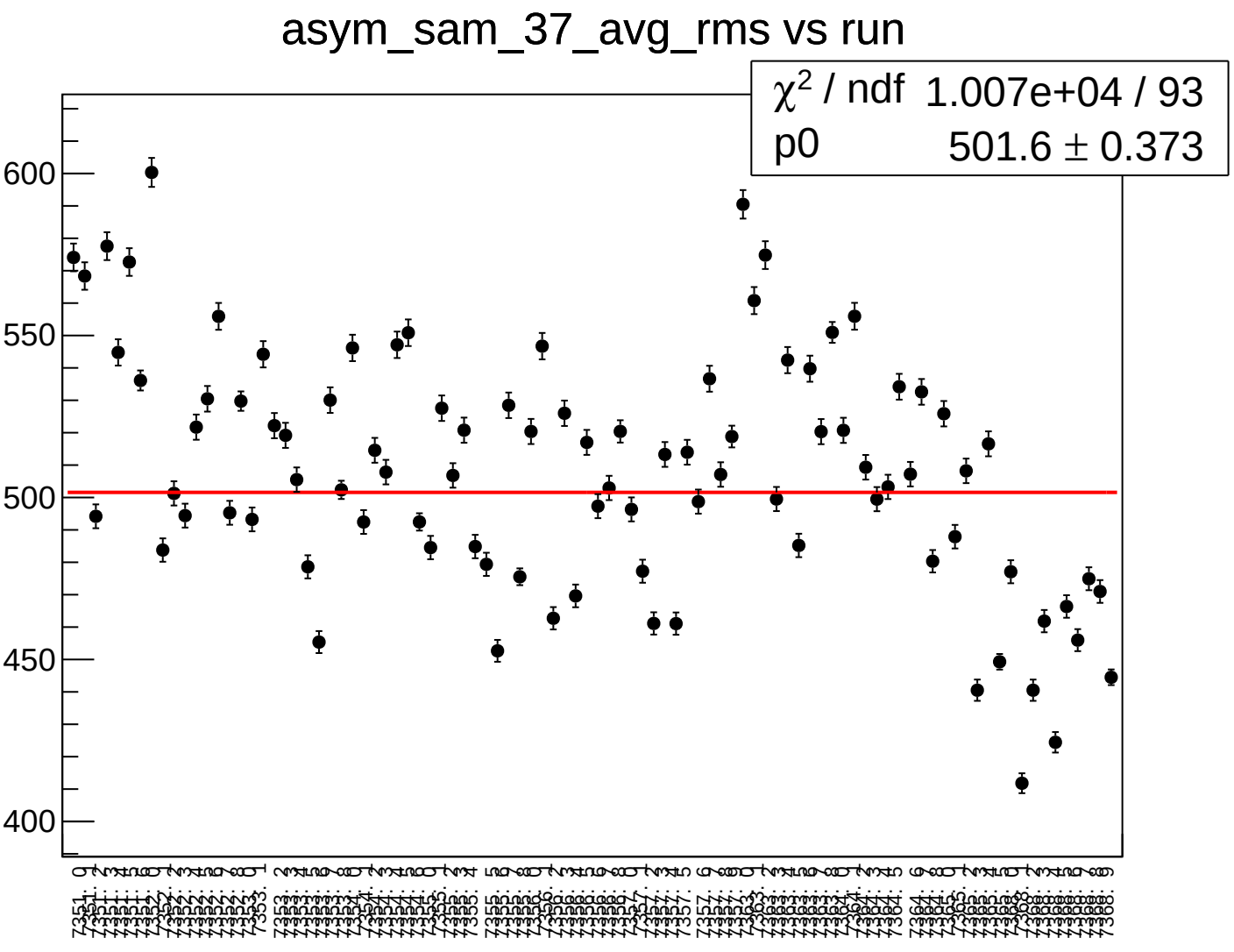

eigen_dit_asym_sam_37_avg_rms vs run
χ² / ndf 5.218e+04 / 93
p0 110.7 ± 0.08329
260
240
220
200
180
160
140
120
100
80
60

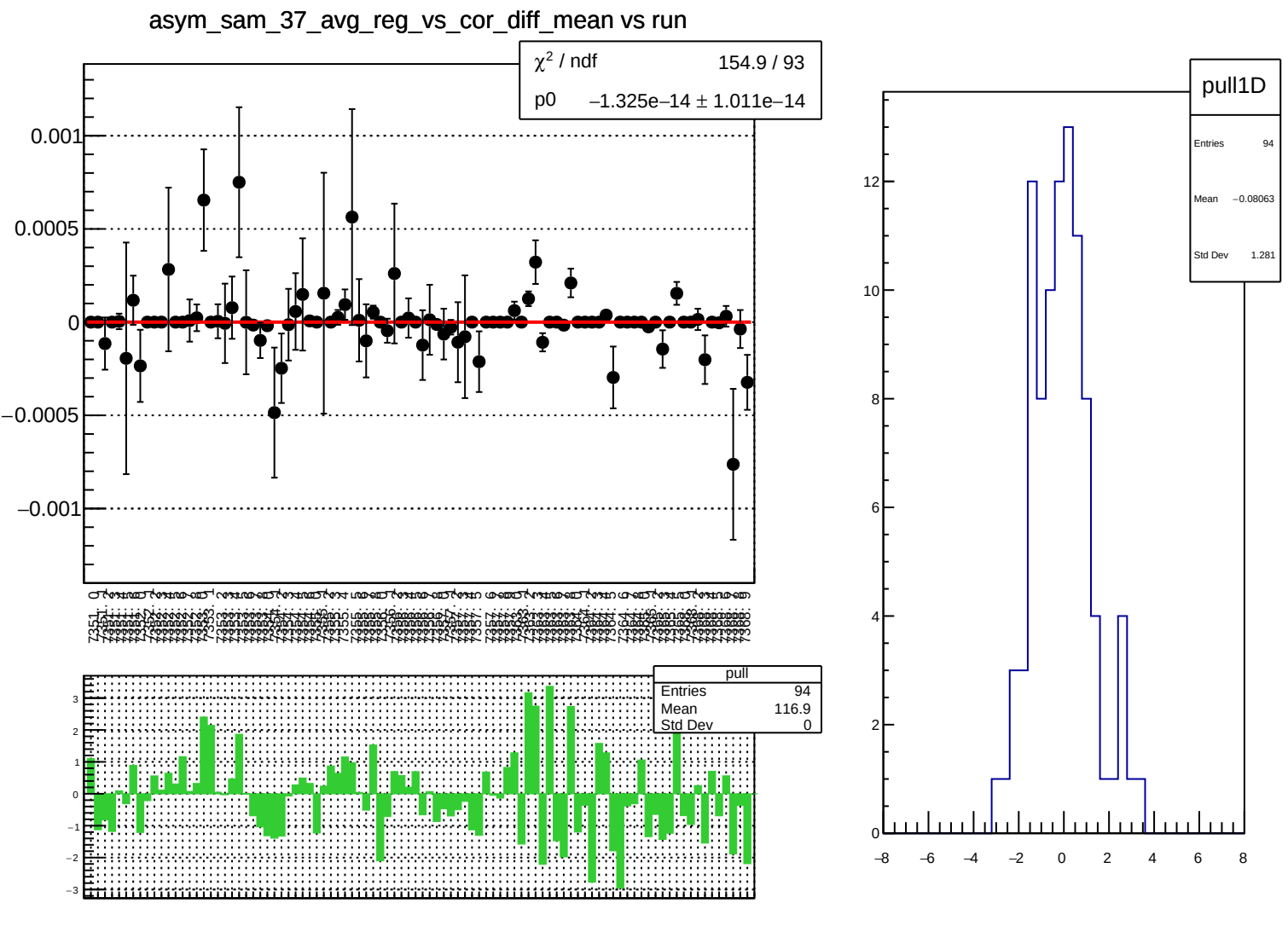

asym_sam_37_avg_eigen_dit_correction_mean vs run
χ² / ndf 304 / 93
p0 685.5 ± 557.5
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean 1456
Std Dev 0
4
2
0
−2
−4
pull1D
Entries 94
Mean −0.002658
Std Dev 1.798
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

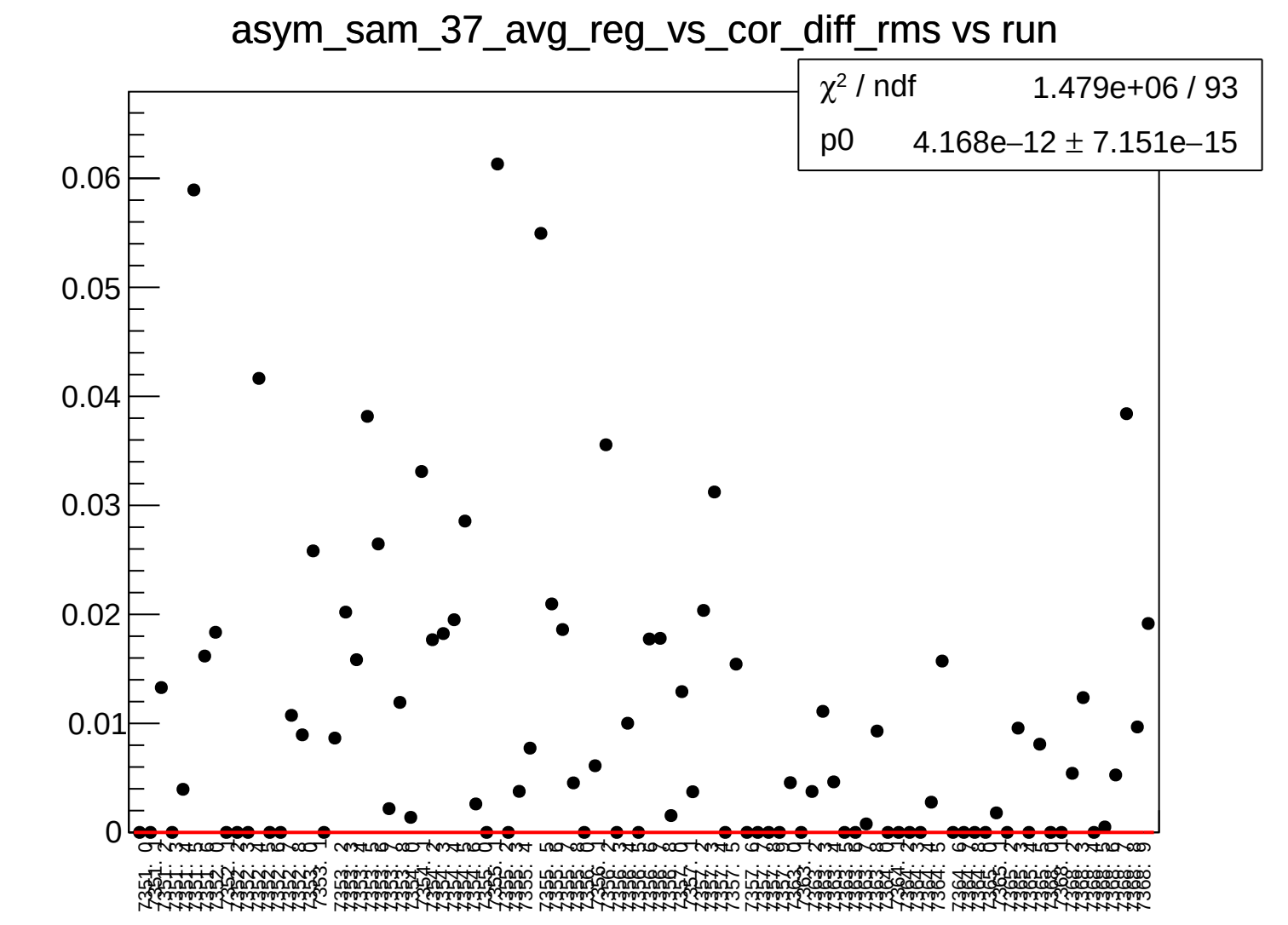

asym_sam_37_avg_eigen_dit_correction_rms vs run
χ² / ndf 9207 / 93
p0 530.3 ± 0.3942
620
600
580
560
540
520
500
480
460
440
420

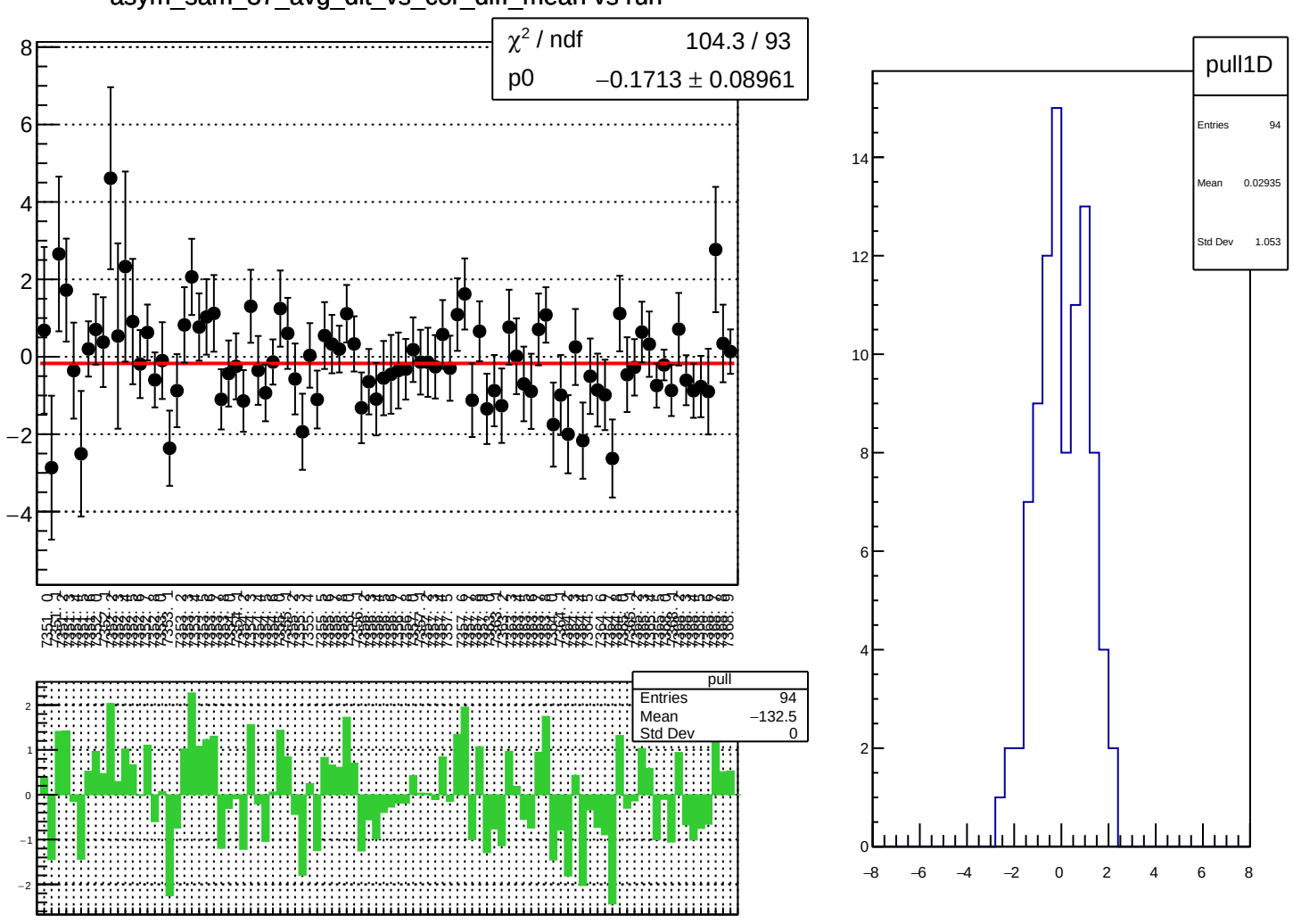

asym_sam_37_avg_mean vs run
χ² / ndf 322 / 93
p0 −695.1 ± 527.5
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 94
Mean −169.9
Std Dev 0
4
2
0
−2
−4

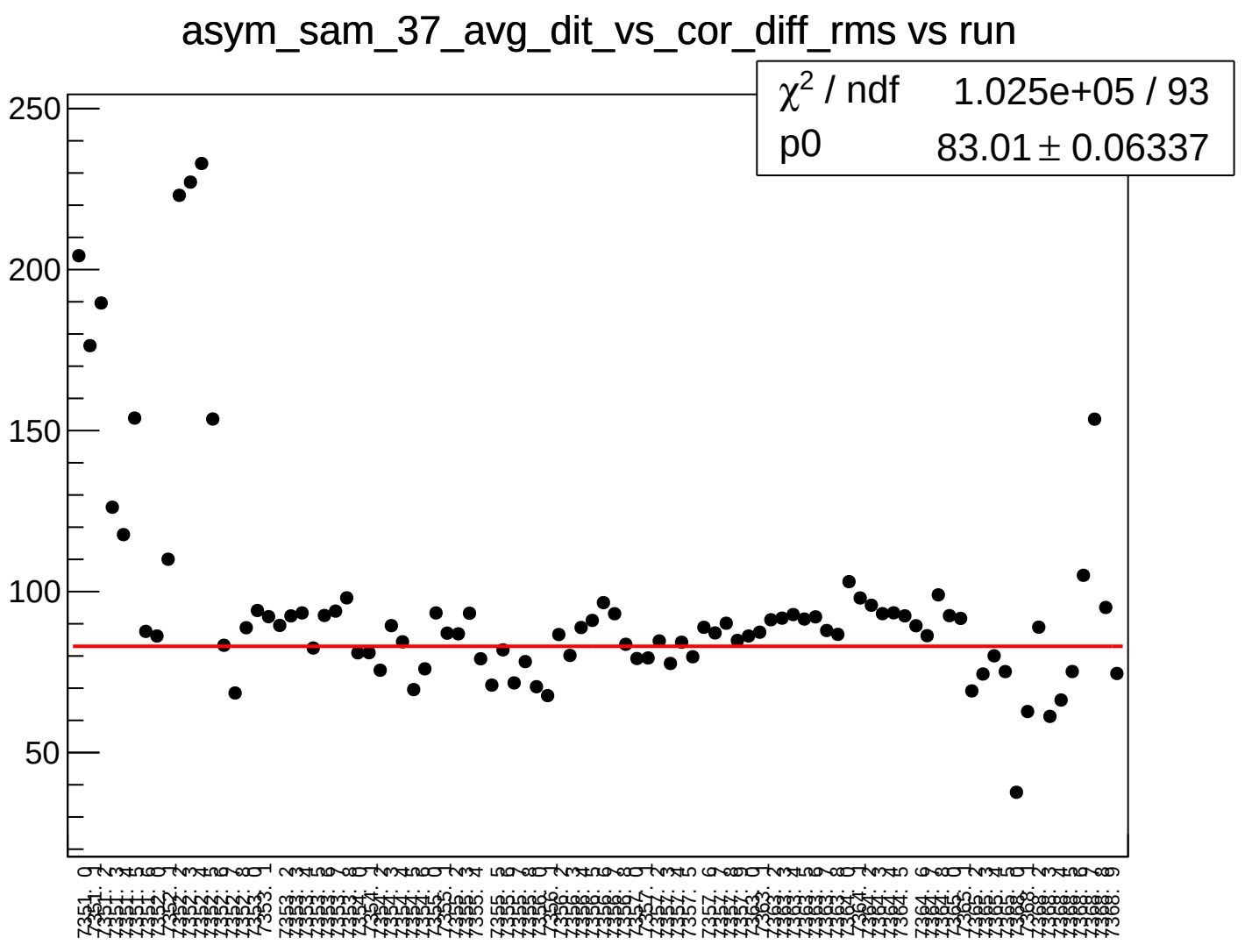

pull1D
Entries 94
Mean −0.01618
Std Dev 1.851
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

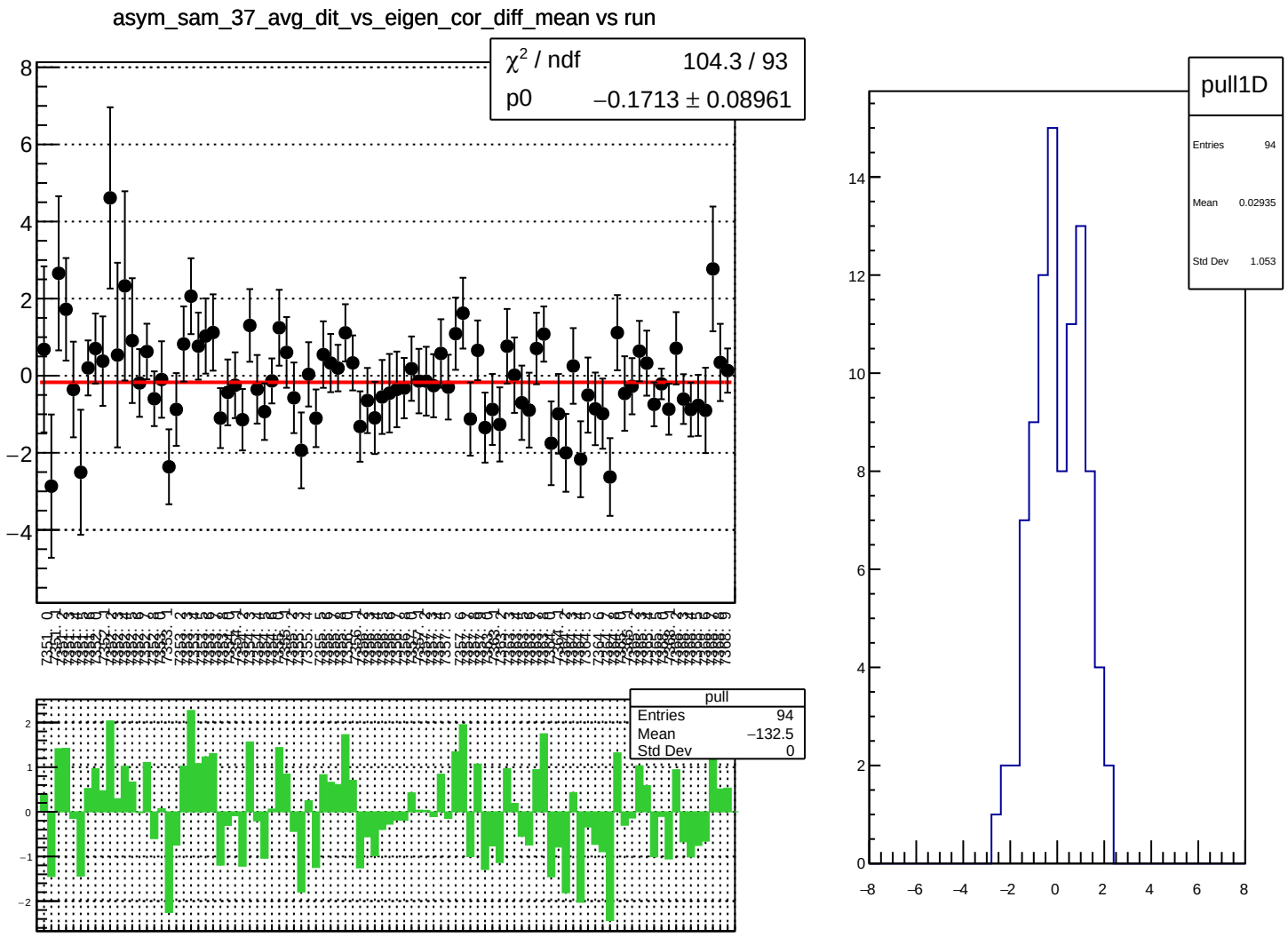

asym_sam_37_avg_rms vs run
χ² / ndf 1.007e+04 / 93
p0 501.6 ± 0.373
600
550
500
450
400

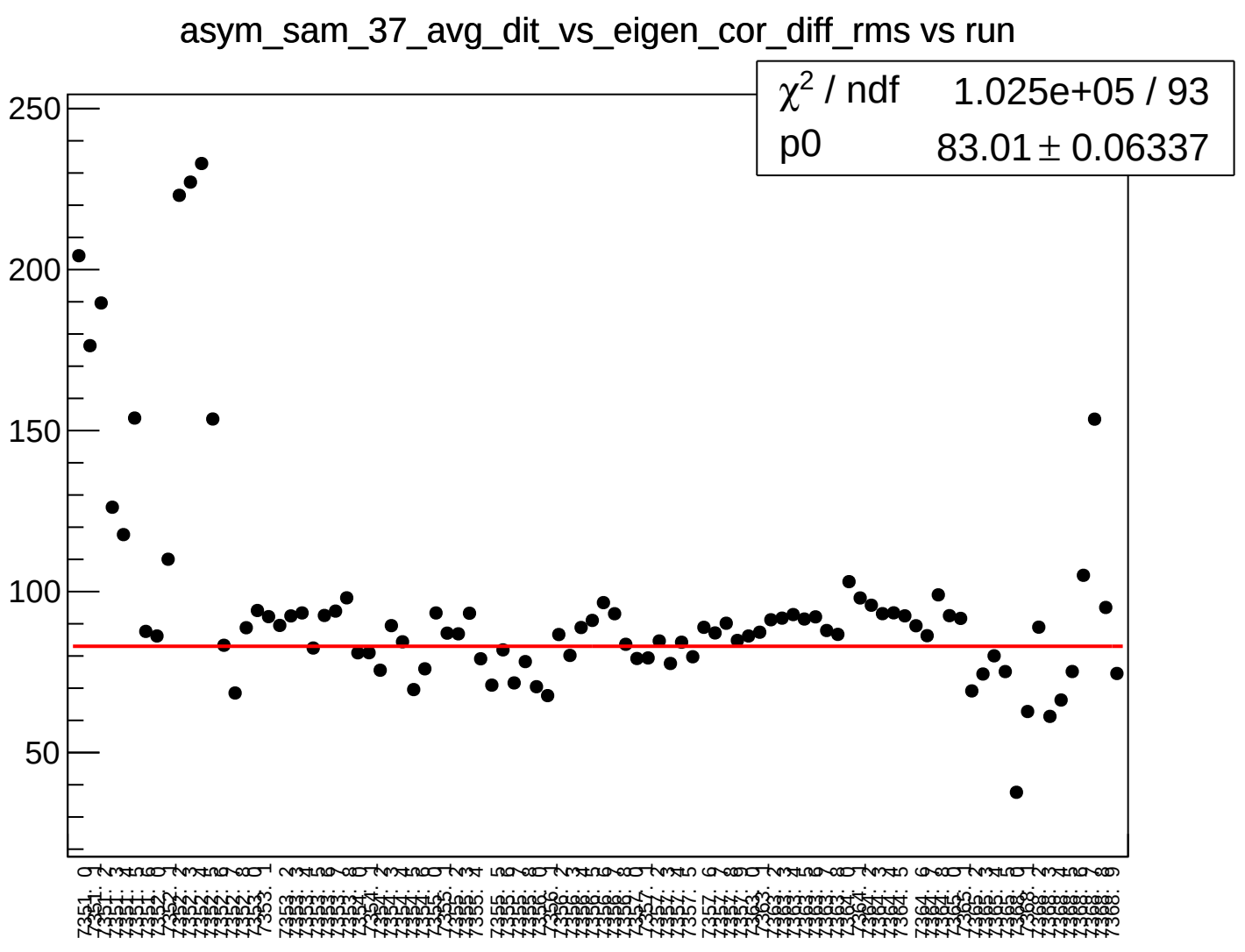

asym_sam_37_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 154.9 / 93
p0 −1.325e−14 ± 1.011e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 94
Mean 116.9
Std Dev 0
pull1D
Entries 94
Mean −0.08063
Std Dev 1.281
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

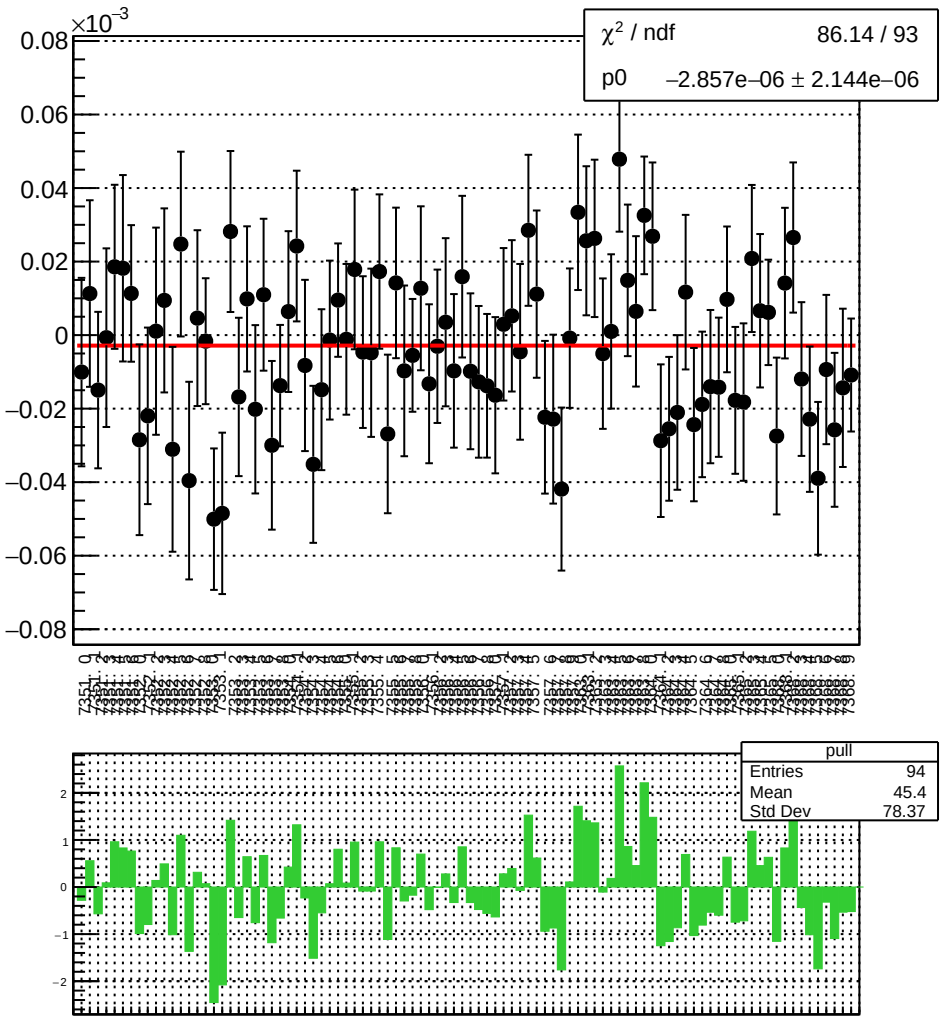

asym_sam_37_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.479e+06 / 93
p0 4.168e−12 ± 7.151e−15
0.06
0.05
0.04
0.03
0.02
0.01
0

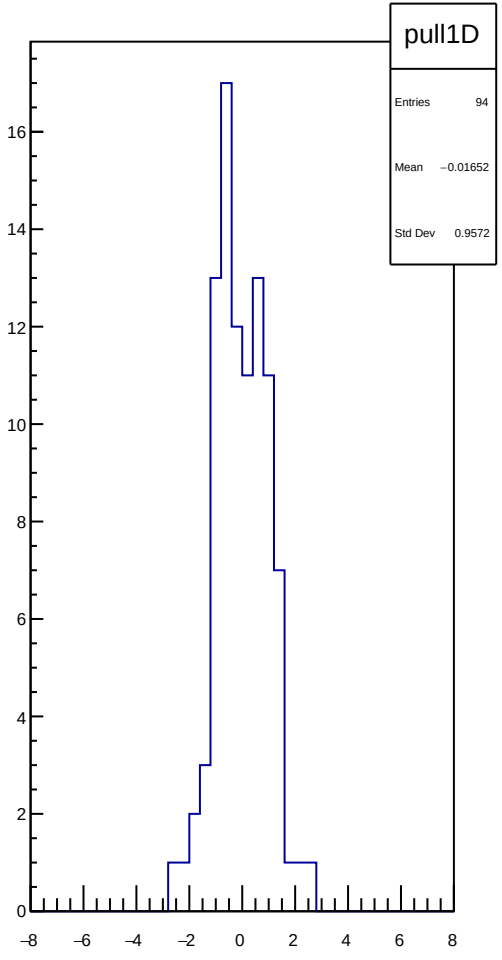

asym_sam_37_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 104.3 / 93
p0 −0.1713 ± 0.08961
pull
Entries 94
Mean −132.5
Std Dev 0
pull1D
Entries 94
Mean 0.02935
Std Dev 1.053

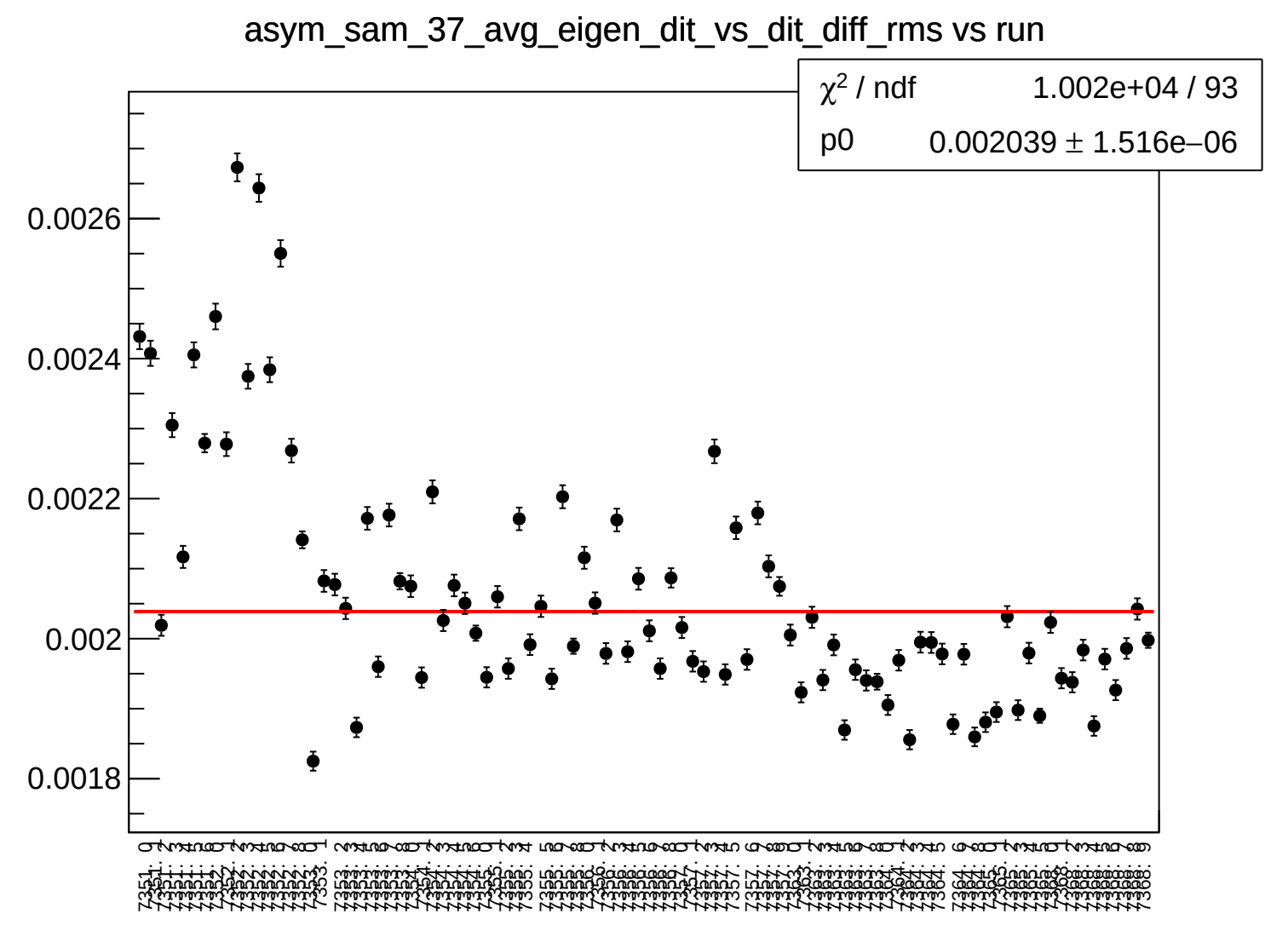

asym_sam_37_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.025e+05 / 93
p0 83.01 ± 0.06337
250
200
150
100
50

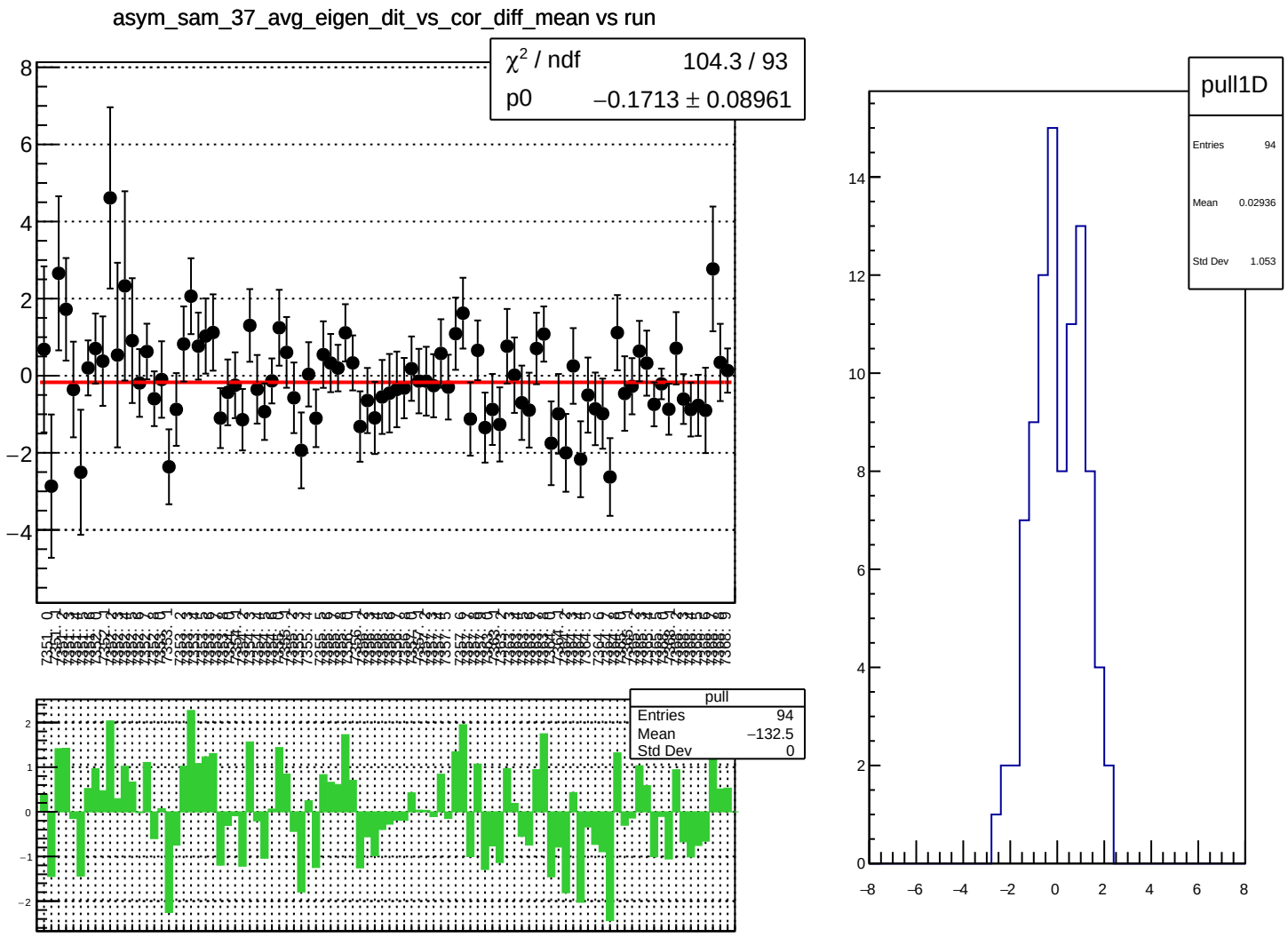

asym_sam_37_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.3 / 93
p0 −0.1713 ± 0.08961
pull
Entries 94
Mean −132.5
Std Dev 0
pull1D
Entries 94
Mean 0.02935
Std Dev 1.053

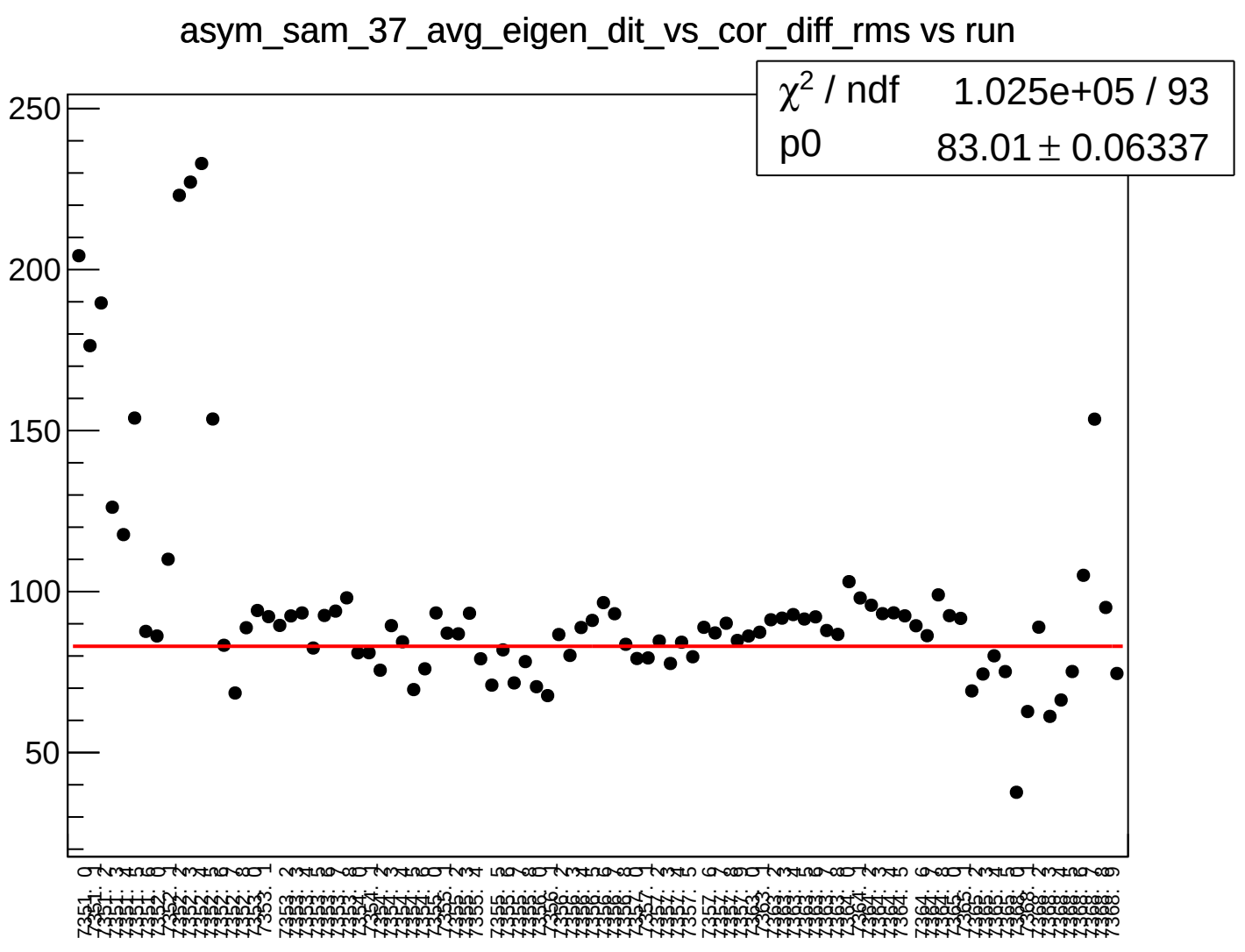

asym_sam_37_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.025e+05 / 93
p0 83.01 ± 0.06337
250
200
150
100
50

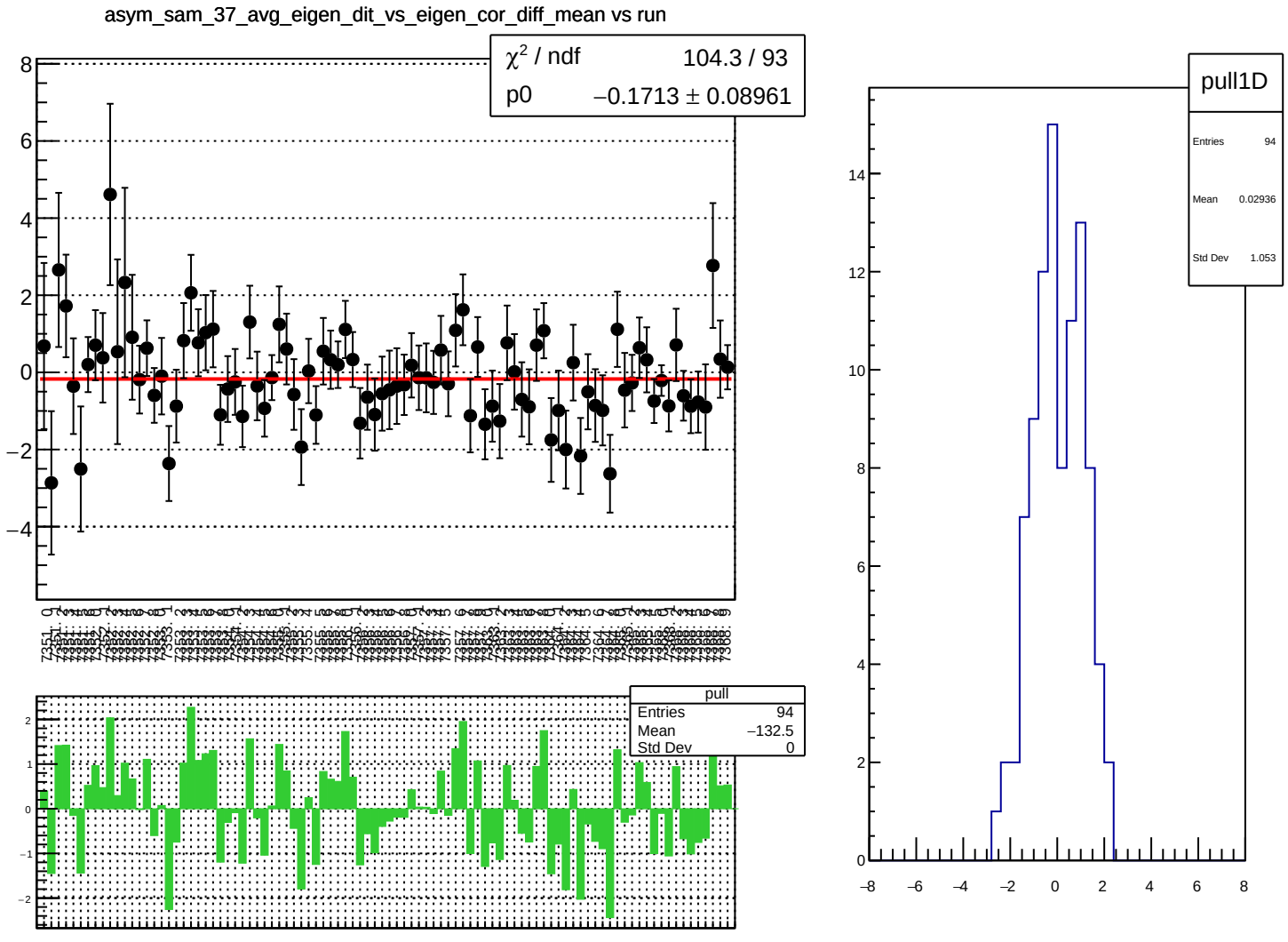

asym_sam_37_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 86.14 / 93
p0 −2.857e−06 ± 2.144e−06
pull
Entries 94
Mean 45.4
Std Dev 78.37

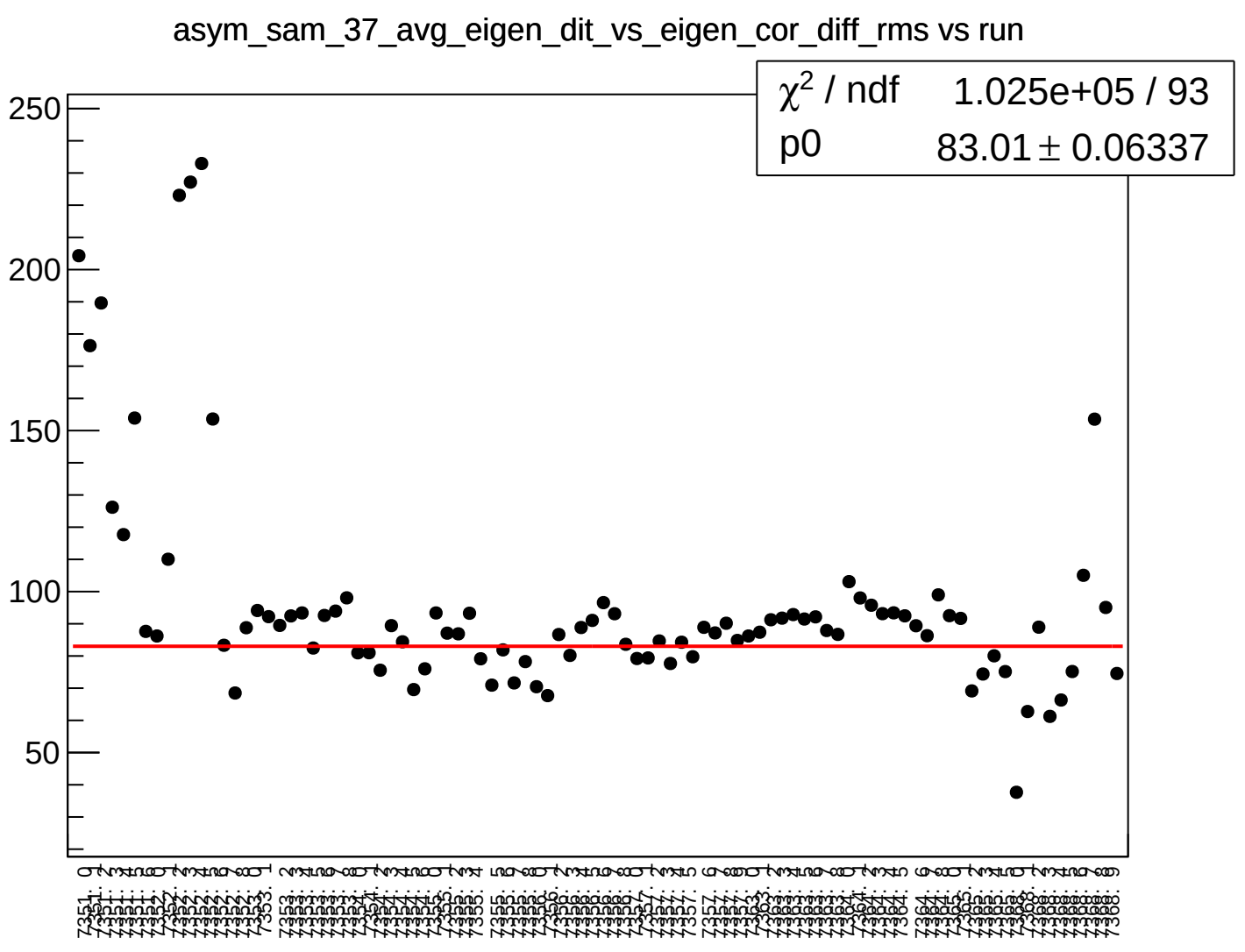

pull1D
Entries 94
Mean −0.01652
Std Dev 0.9572

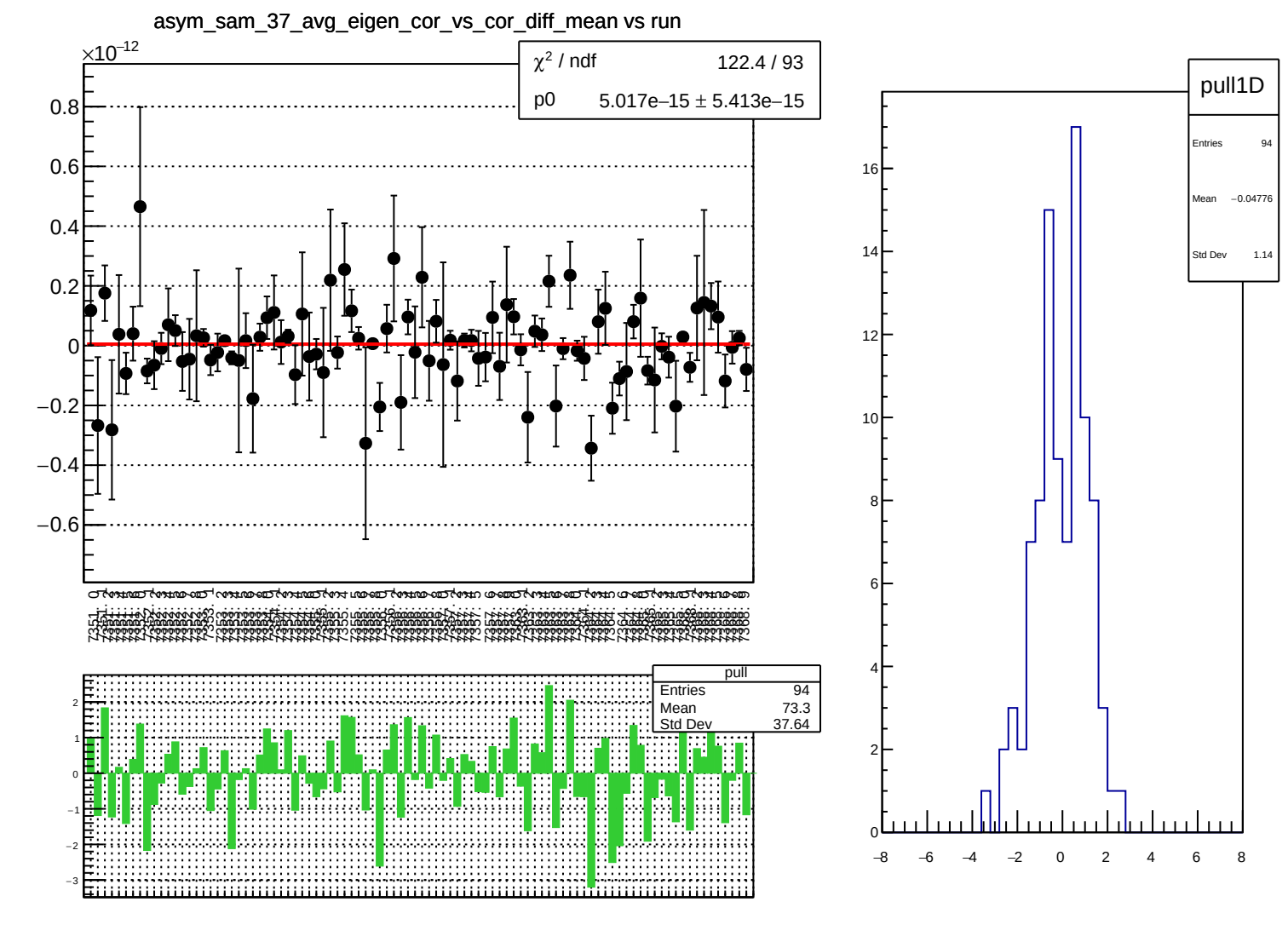

asym_sam_37_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.002e+04 / 93
p0 0.002039 ± 1.516e−06
0.0026
0.0024
0.0022
0.002
0.0018

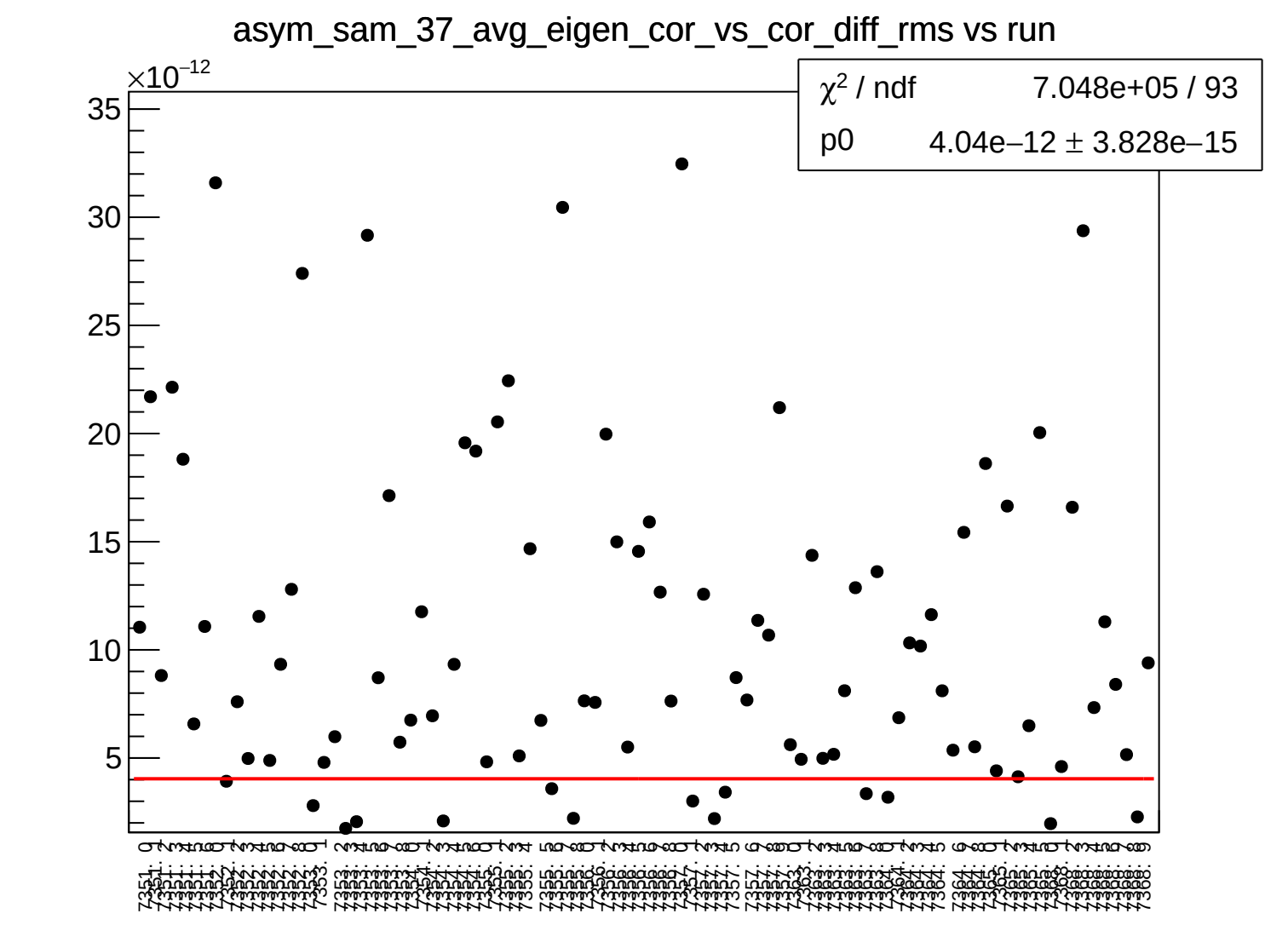

asym_sam_37_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 104.3 / 93
p0 −0.1713 ± 0.08961
pull
Entries 94
Mean −132.5
Std Dev 0
pull1D
Entries 94
Mean 0.02936
Std Dev 1.053

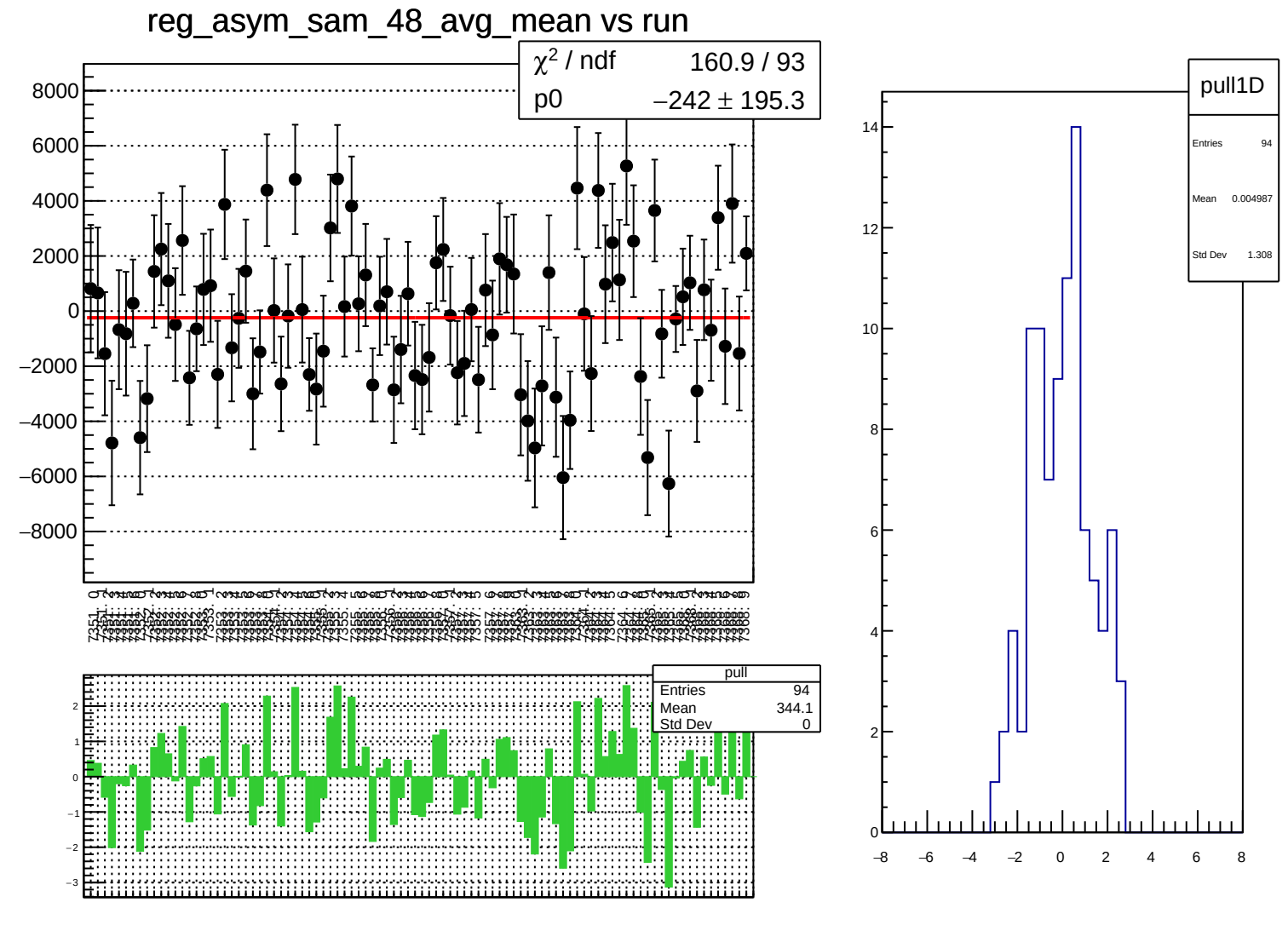

asym_sam_37_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.025e+05 / 93
p0 83.01 ± 0.06337
250
200
150
100
50

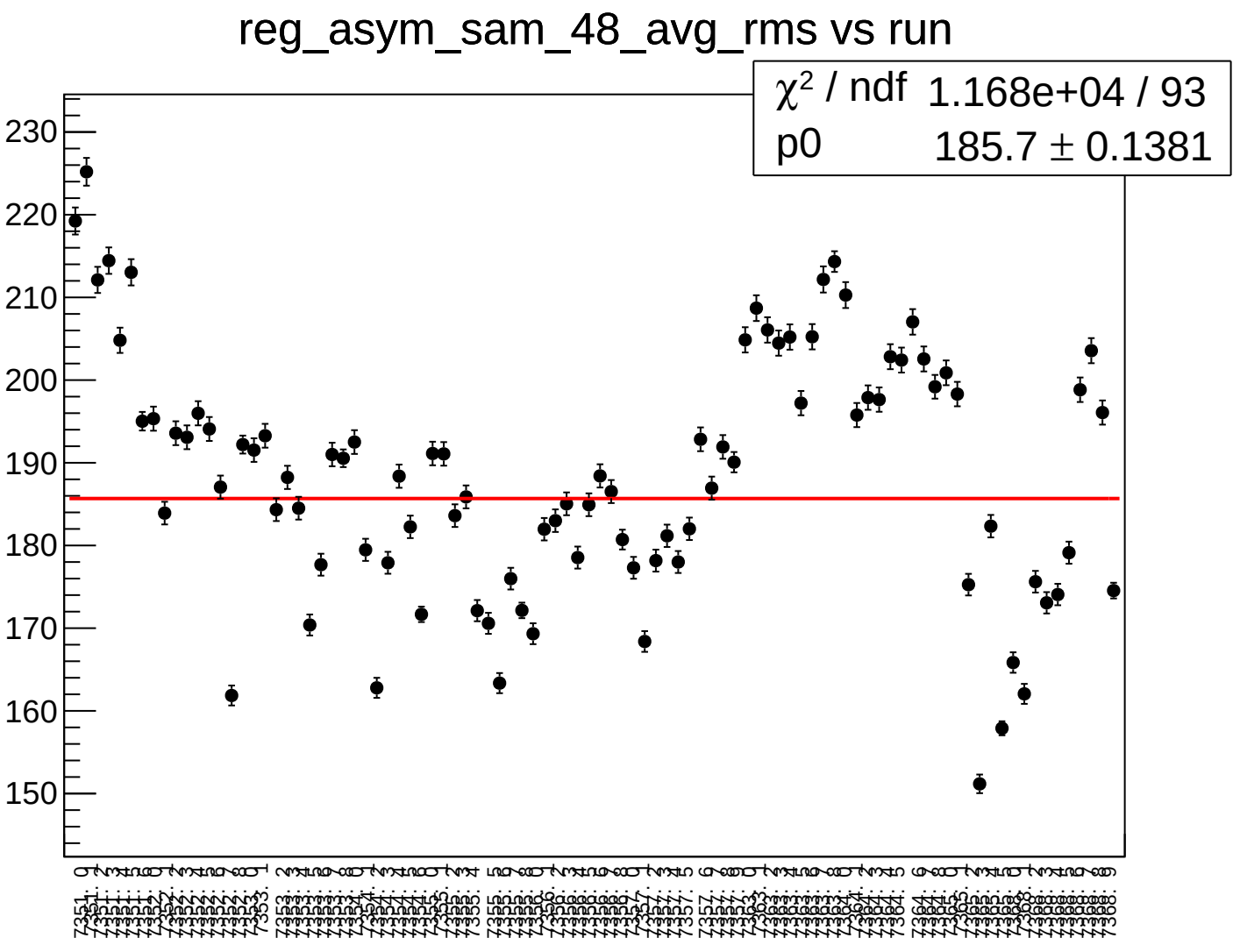

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.3 / 93
p0 −0.1713 ± 0.08961
pull
Entries 94
Mean −132.5
Std Dev 0
pull1D
Entries 94
Mean 0.02936
Std Dev 1.053

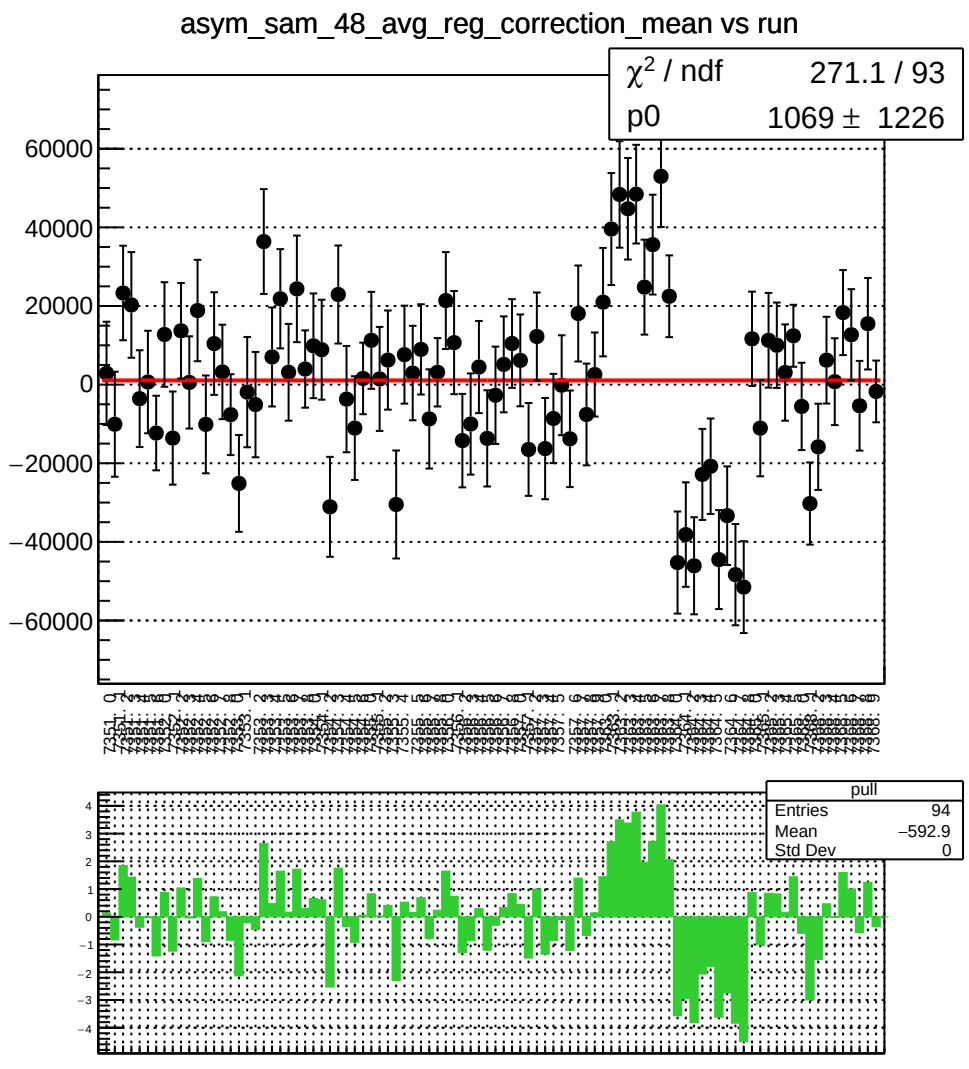

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.025e+05 / 93
p0 83.01 ± 0.06337
250
200
150
100
50

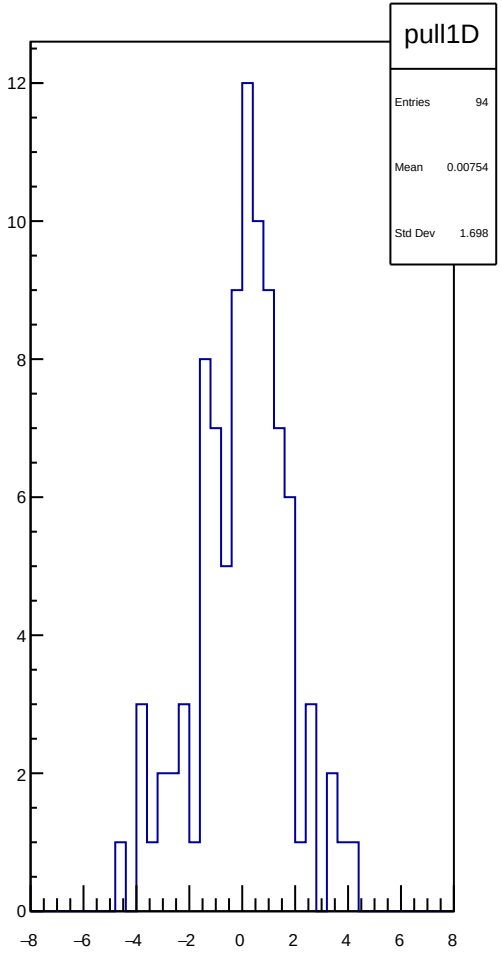

asym_sam_37_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 122.4 / 93
p0 5.017e−15 ± 5.413e−15
pull
Entries 94
Mean 73.3
Std Dev 37.64
pull1D
Entries 94
Mean −0.04776
Std Dev 1.14

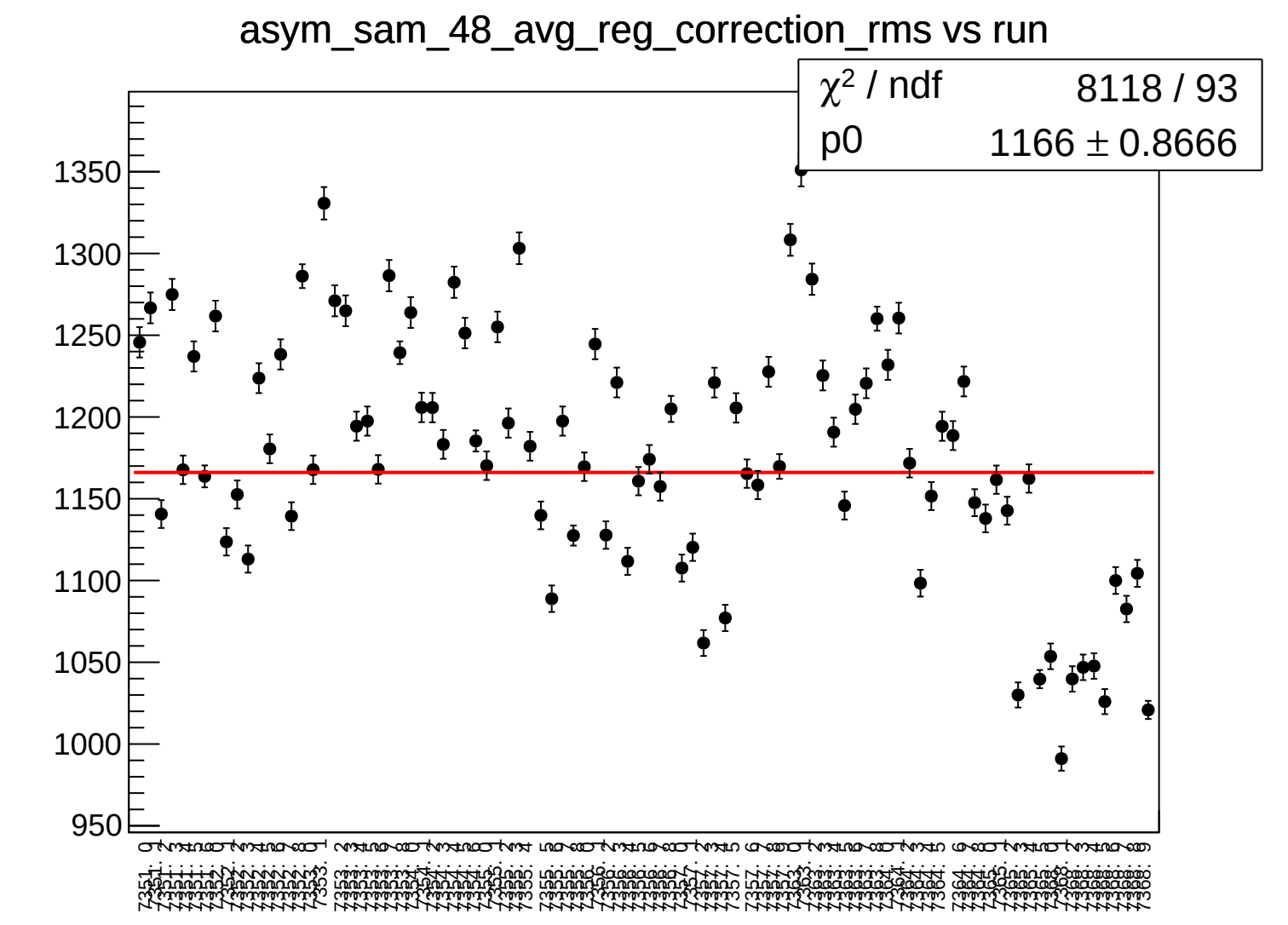

asym_sam_37_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.048e+05 / 93
p0 4.04e−12 ± 3.828e−15
35
30
25
20
15
10
5

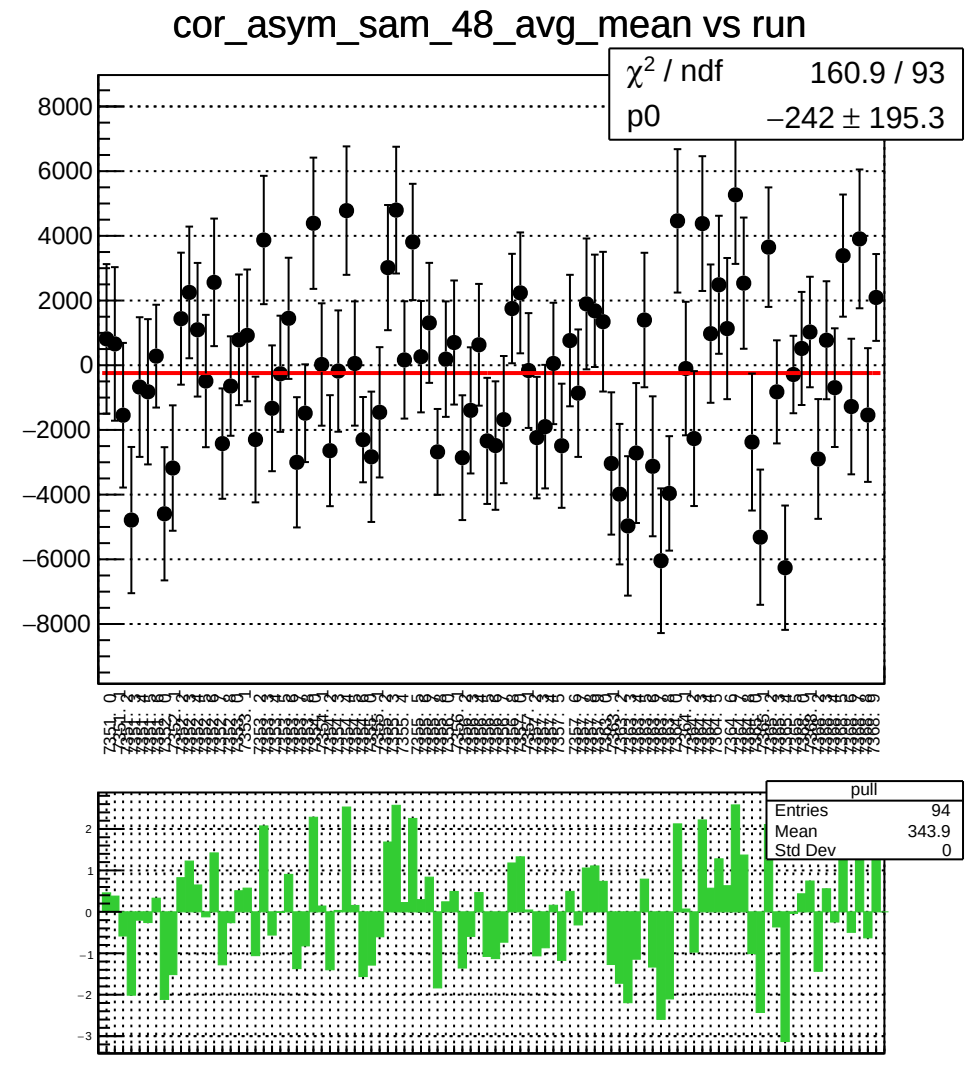

reg_asym_sam_48_avg_mean vs run
χ² / ndf 160.9 / 93
p0 −242 ± 195.3
pull
Entries 94
Mean 344.1
Std Dev 0
pull1D
Entries 94
Mean 0.004987
Std Dev 1.308

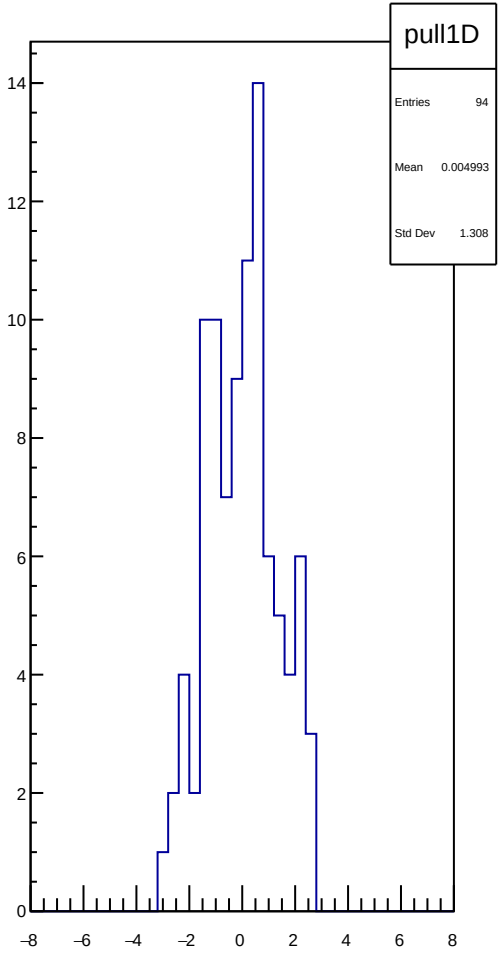

reg_asym_sam_48_avg_rms vs run
χ² / ndf 1.168e+04 / 93
p0 185.7 ± 0.1381
230
220
210
200
190
180
170
160
150

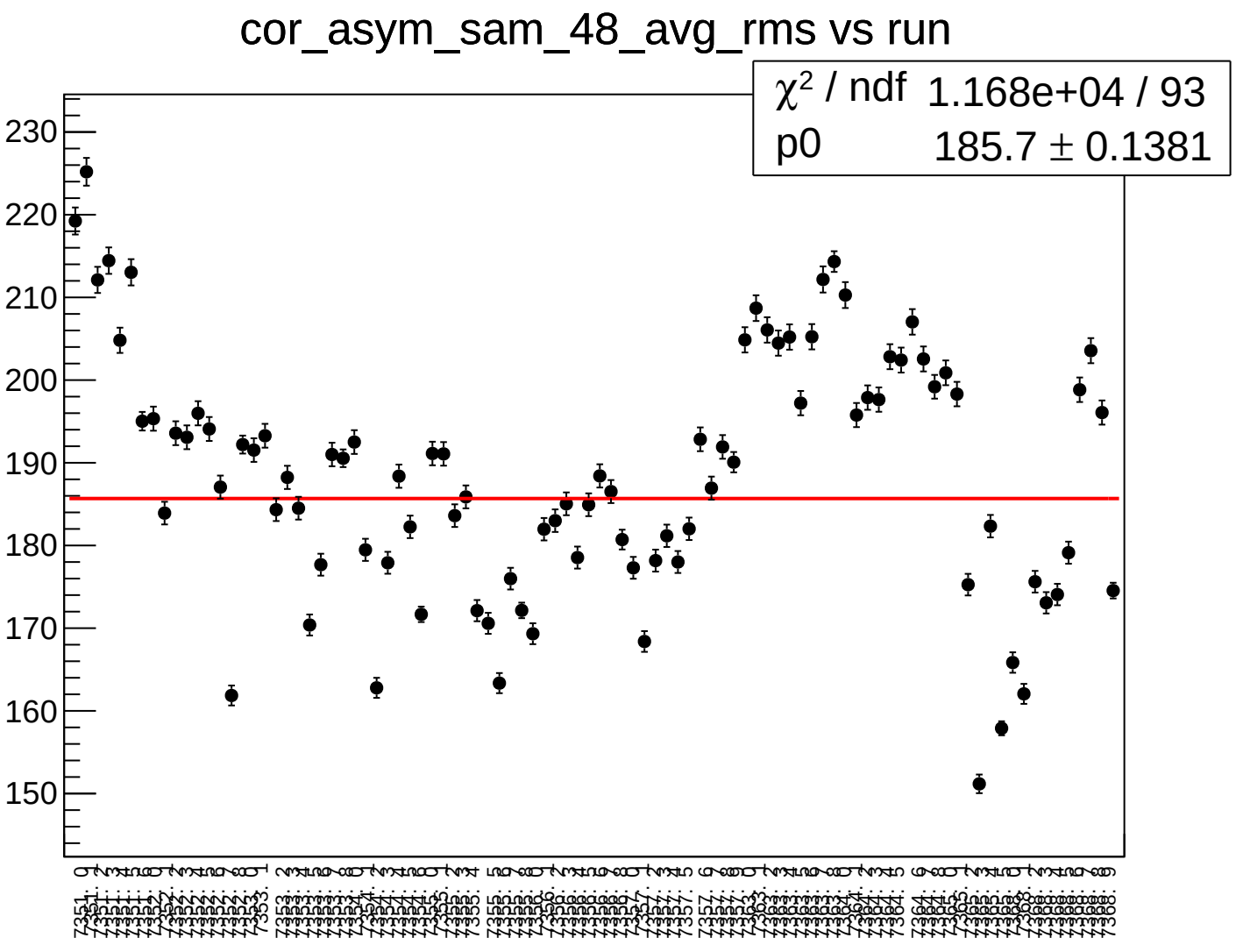

asym_sam_48_avg_reg_correction_mean vs run
χ² / ndf 271.1 / 93
p0 1069 ± 1226
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −592.9
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4

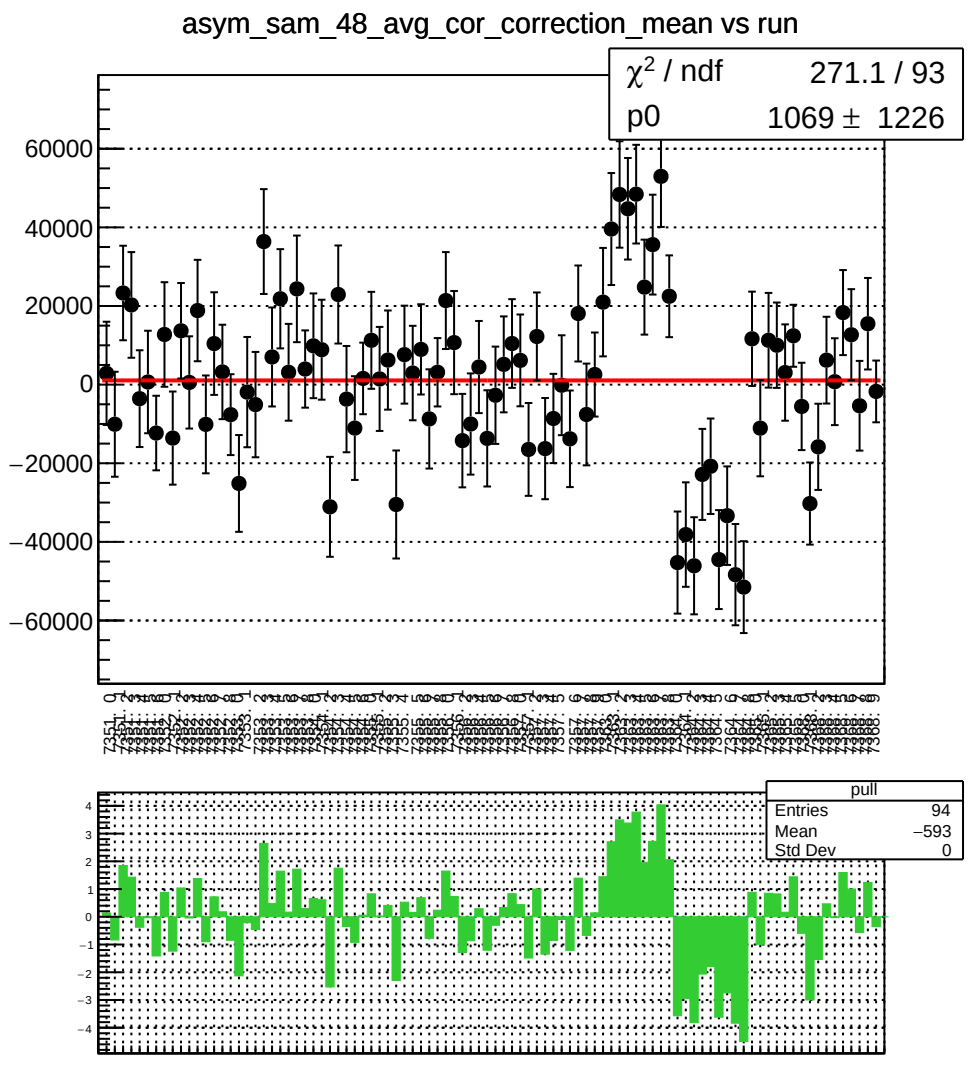

pull1D
Entries 94
Mean 0.00754
Std Dev 1.698
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

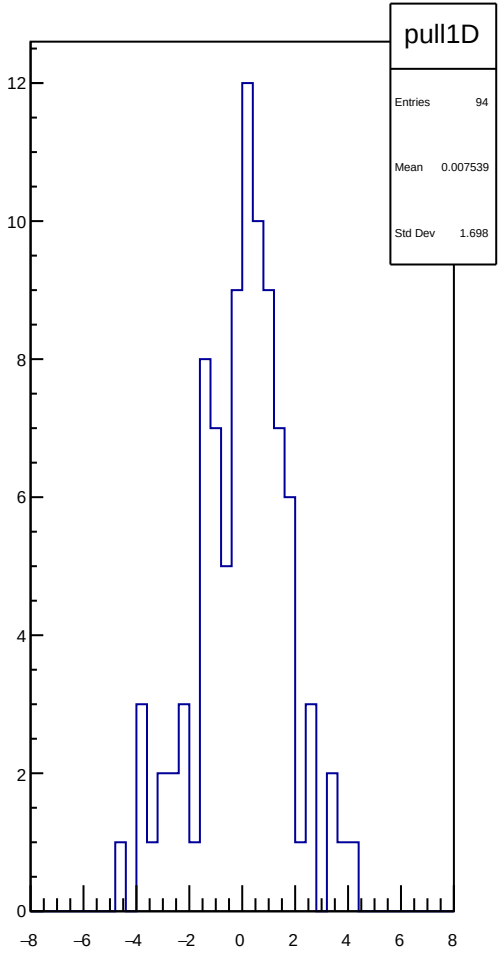

asym_sam_48_avg_reg_correction_rms vs run
χ² / ndf 8118 / 93
p0 1166 ± 0.8666
1350
1300
1250
1200
1150
1100
1050
1000
950

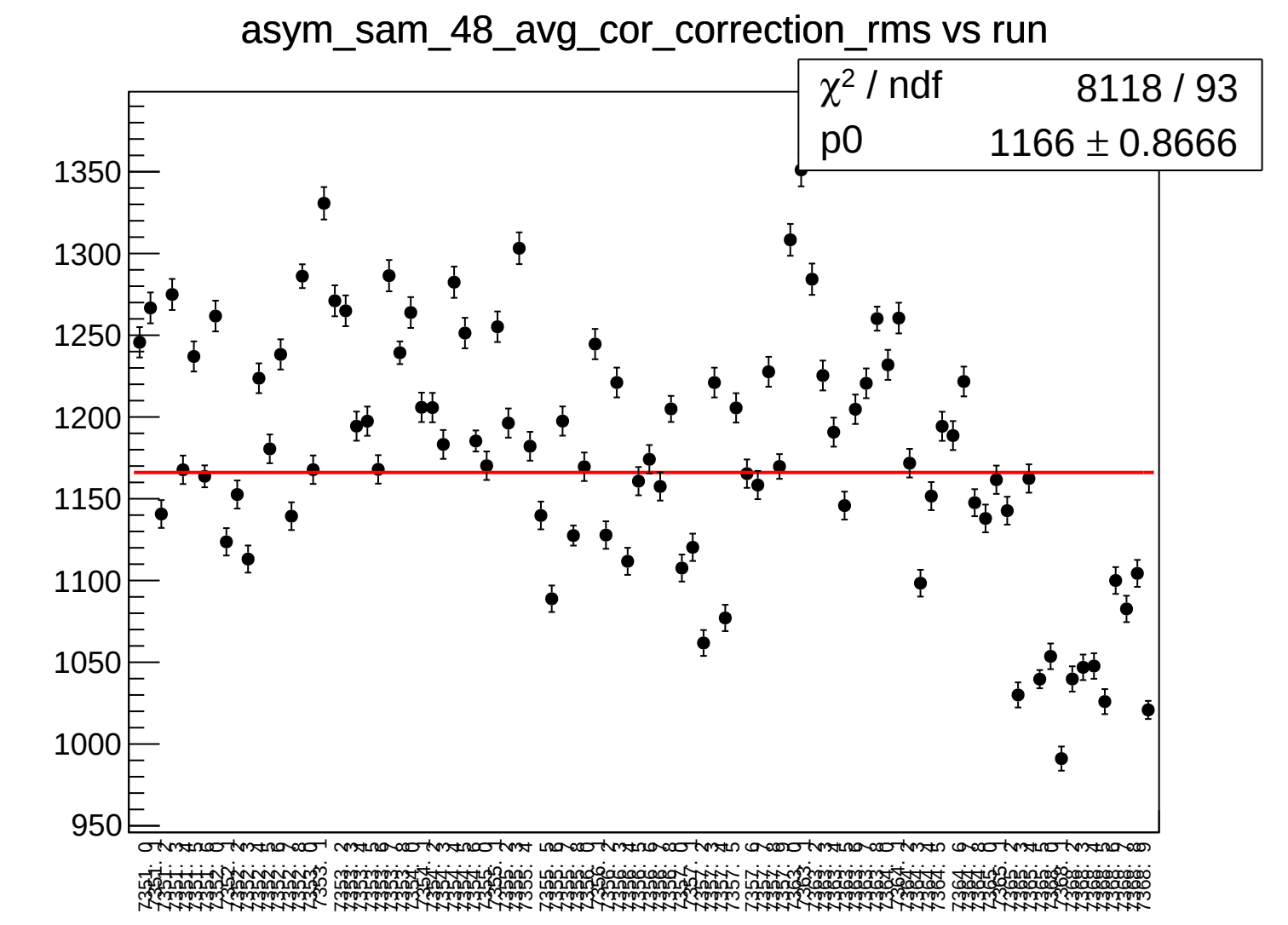

cor_asym_sam_48_avg_mean vs run
χ² / ndf 160.9 / 93
p0 −242 ± 195.3
pull
Entries 94
Mean 343.9
Std Dev 0

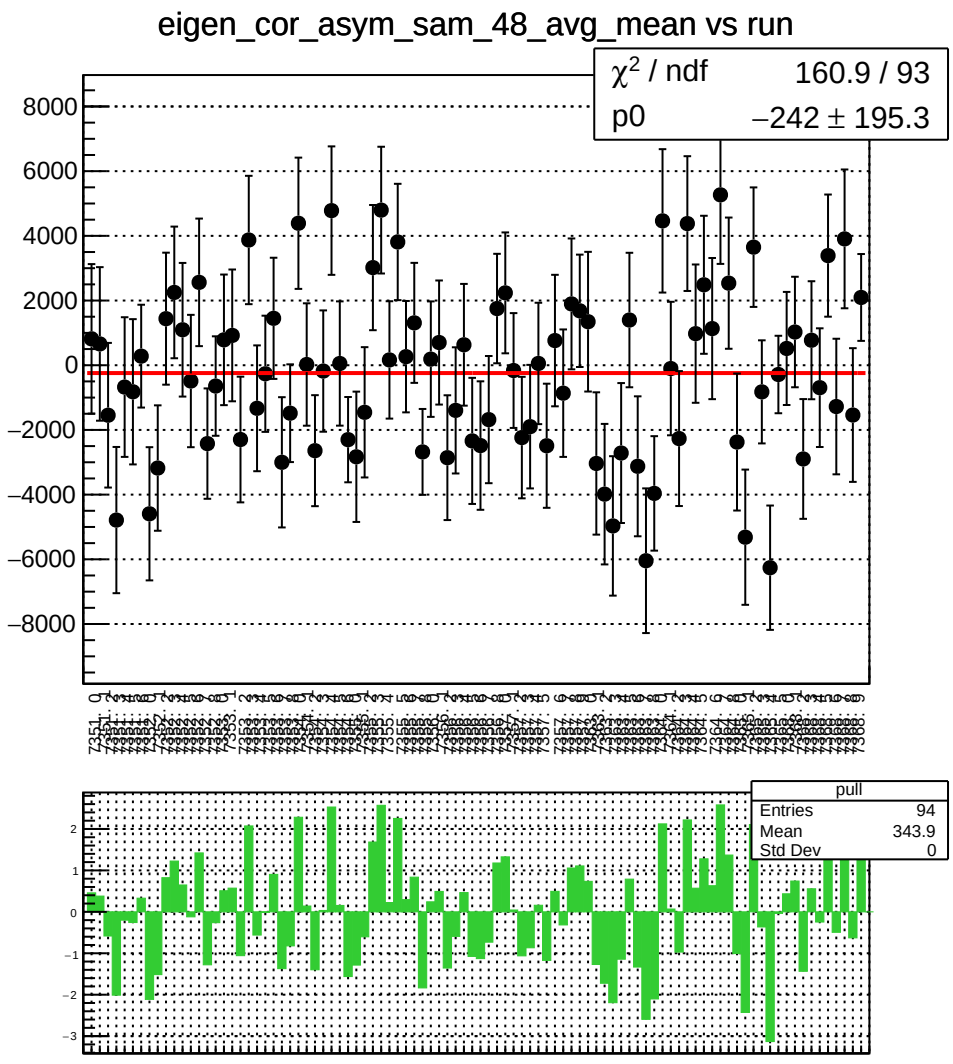

pull1D
Entries 94
Mean 0.004993
Std Dev 1.308

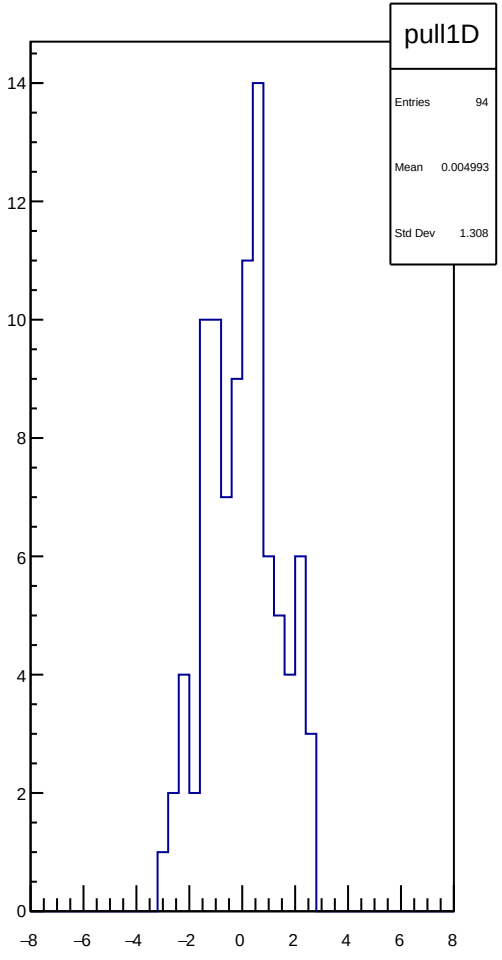

cor_asym_sam_48_avg_rms vs run
χ² / ndf 1.168e+04 / 93
p0 185.7 ± 0.1381
230
220
210
200
190
180
170
160
150

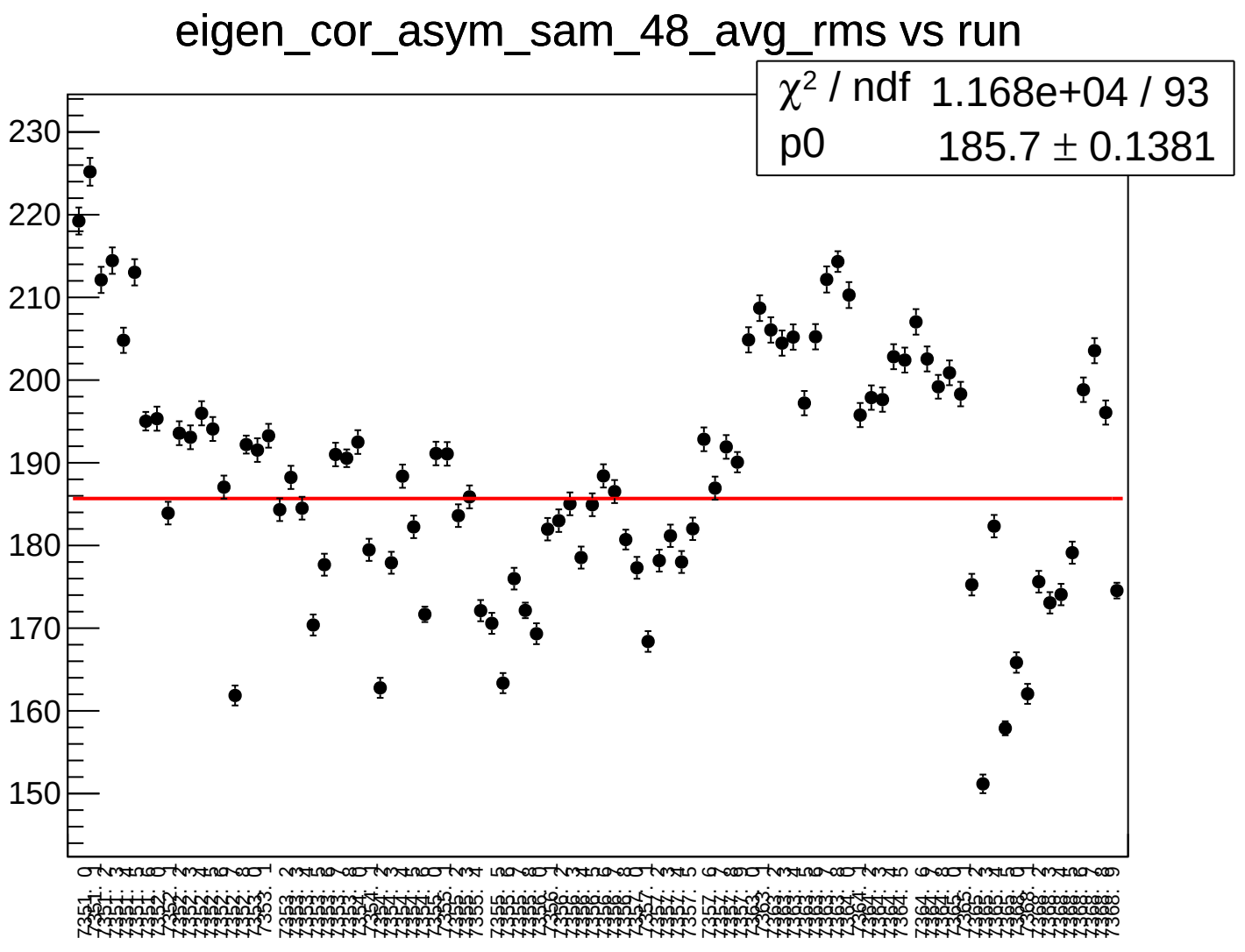

asym_sam_48_avg_cor_correction_mean vs run
χ² / ndf 271.1 / 93
p0 1069 ± 1226
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −593
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4

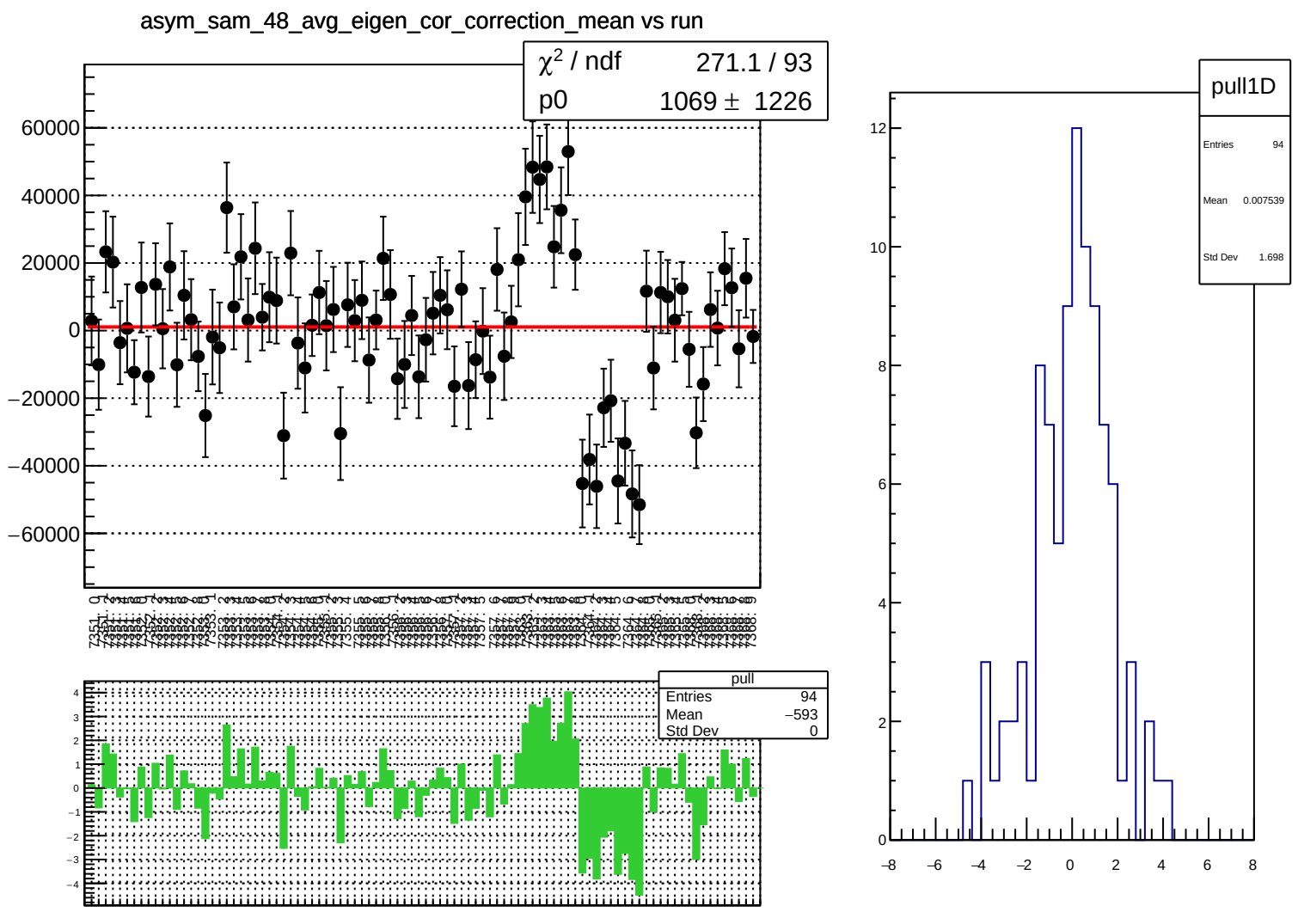

pull1D
Entries 94
Mean 0.007539
Std Dev 1.698
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

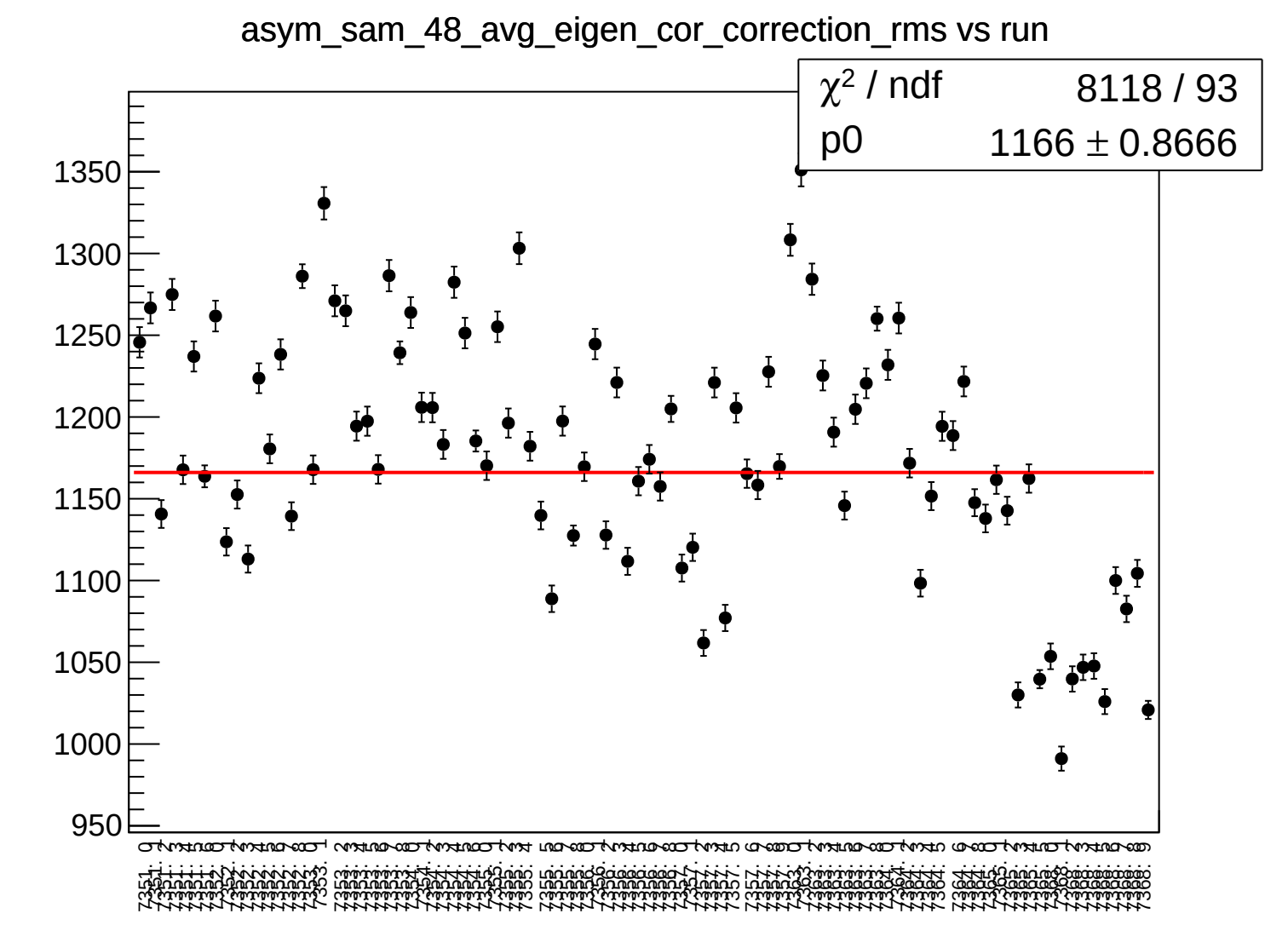

asym_sam_48_avg_cor_correction_rms vs run
χ² / ndf 8118 / 93
p0 1166 ± 0.8666
1350
1300
1250
1200
1150
1100
1050
1000
950

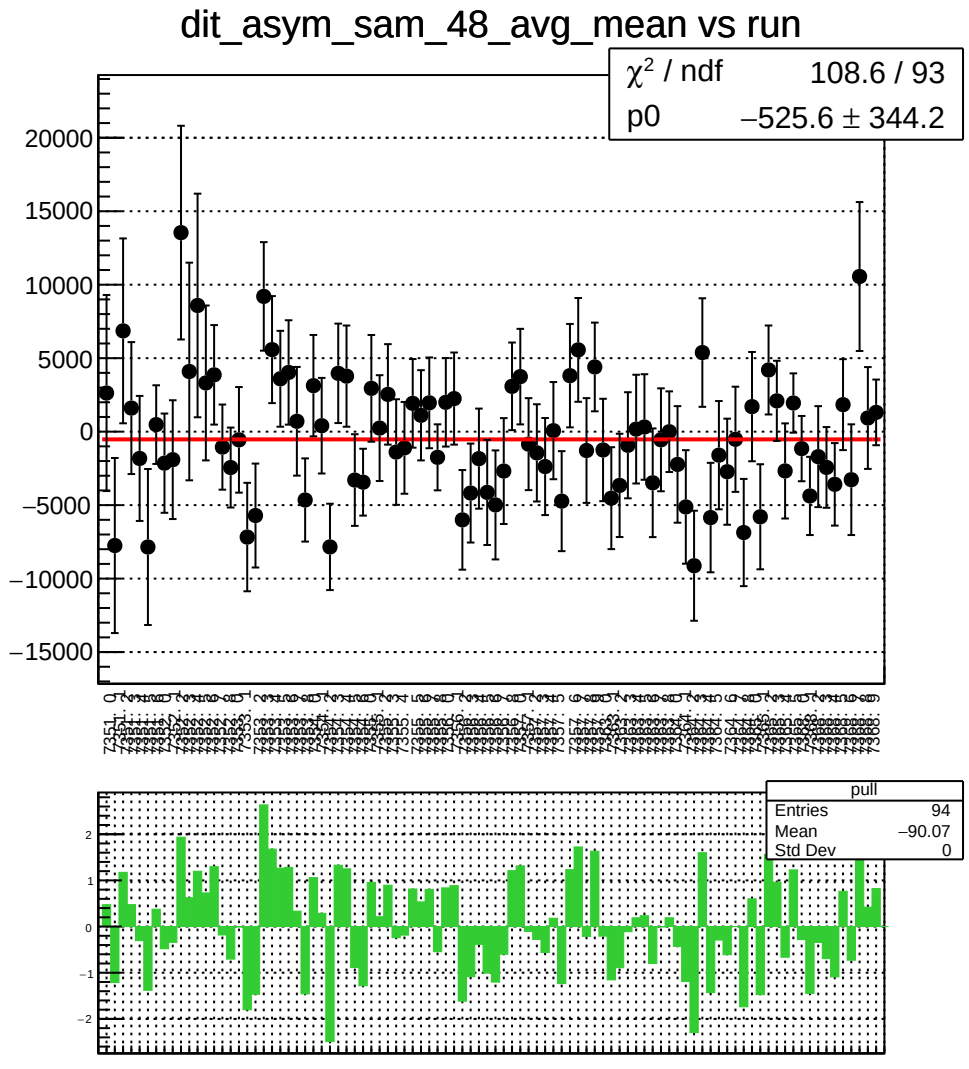

eigen_cor_asym_sam_48_avg_mean vs run
χ² / ndf 160.9 / 93
p0 −242 ± 195.3
pull
Entries 94
Mean 343.9
Std Dev 0

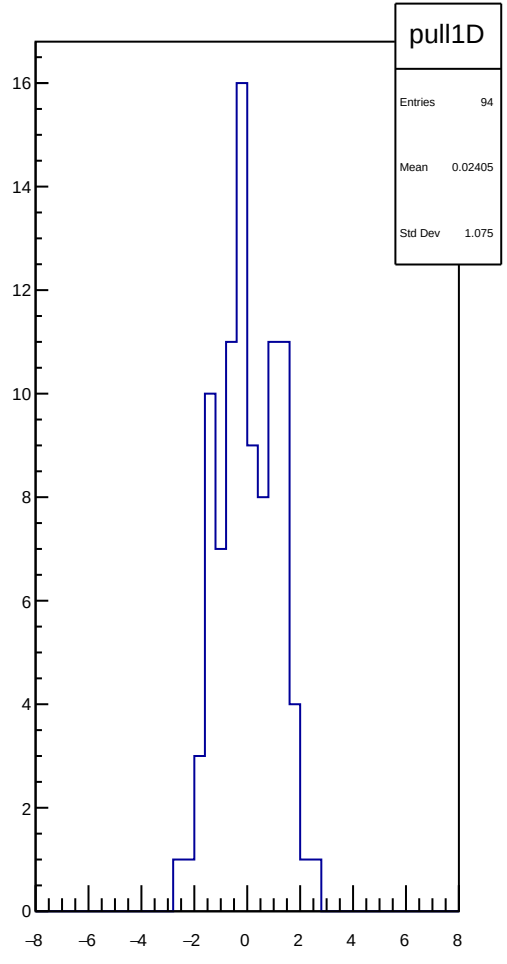

pull1D
Entries 94
Mean 0.004993
Std Dev 1.308

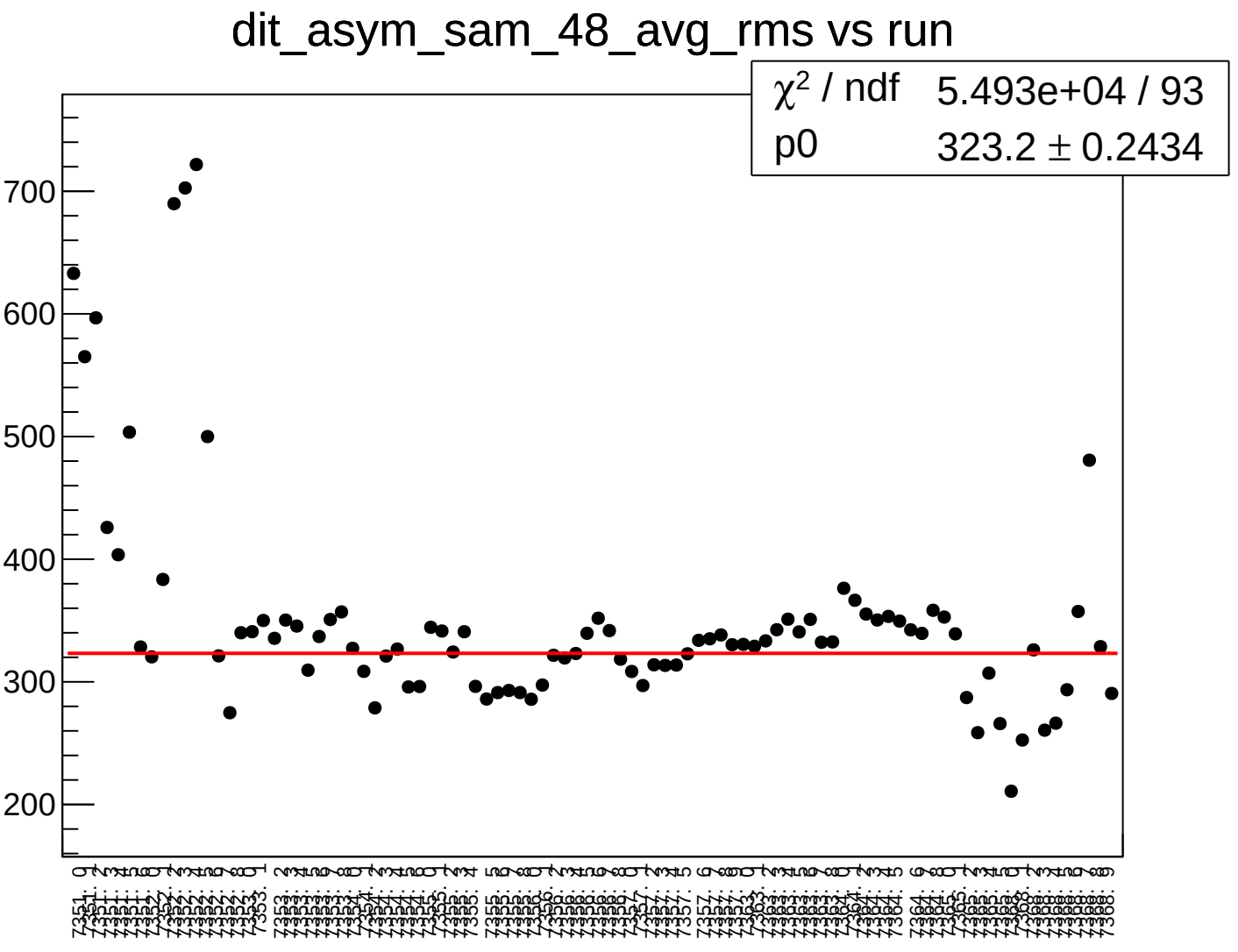

eigen_cor_asym_sam_48_avg_rms vs run
χ^2 / ndf 1.168e+04 / 93
p0 185.7 ± 0.1381
230
220
210
200
190
180
170
160
150

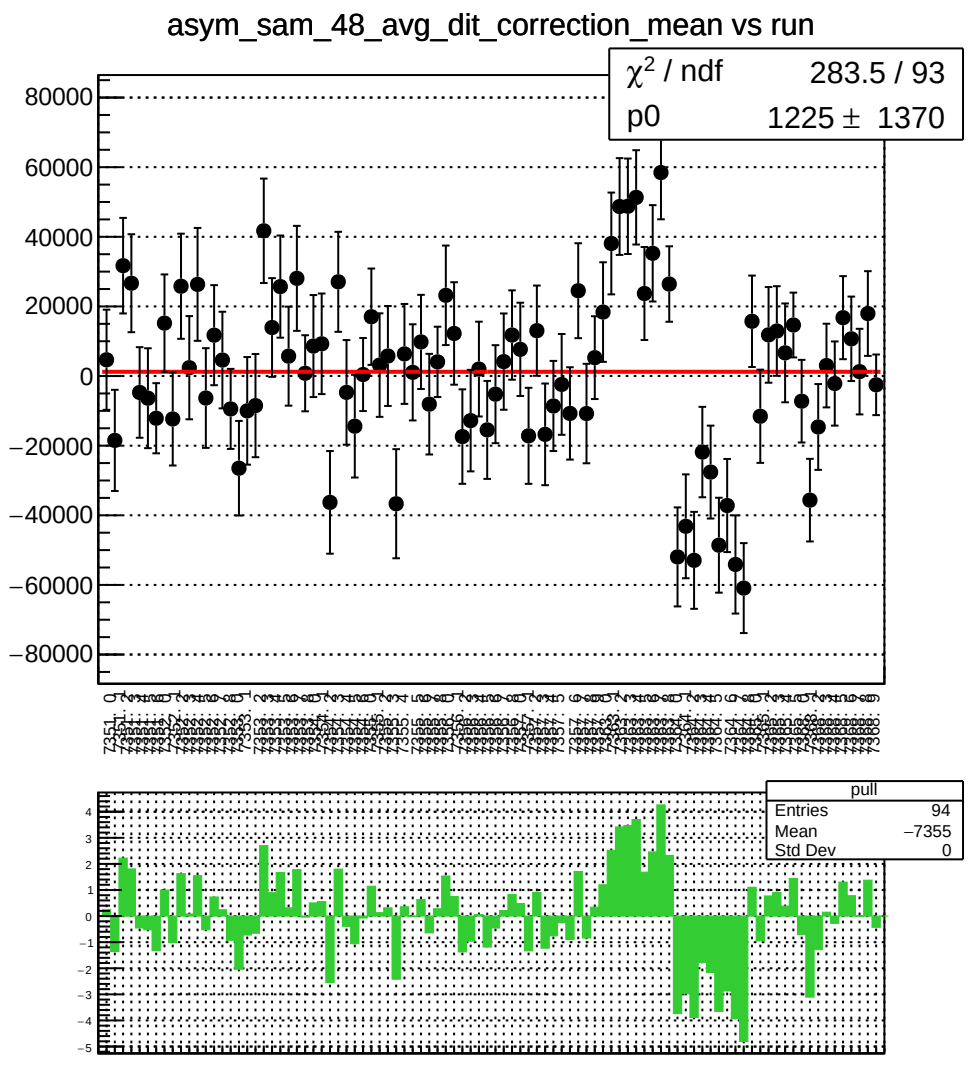

asym_sam_48_avg_eigen_cor_correction_mean vs run
χ² / ndf 271.1 / 93
p0 1069 ± 1226
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −593
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 94
Mean 0.007539
Std Dev 1.698
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

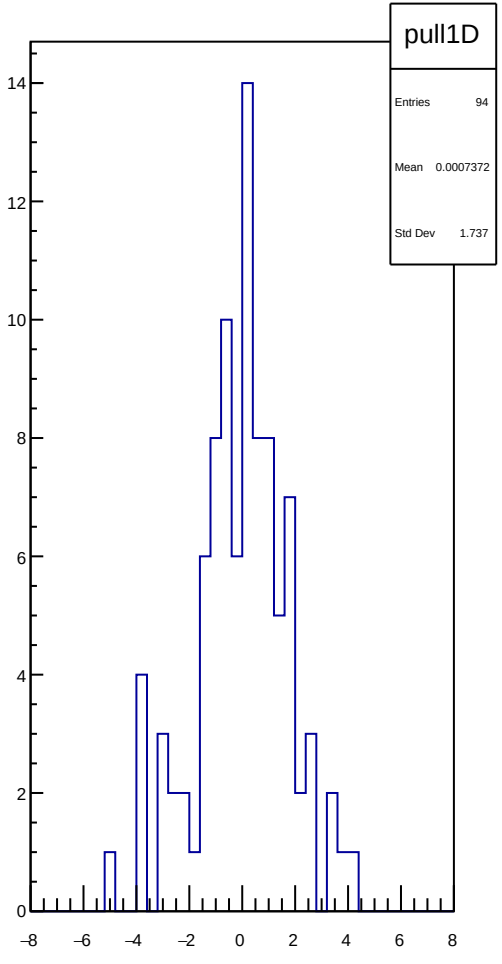

asym_sam_48_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 8118 / 93
p0 1166 ± 0.8666
1350
1300
1250
1200
1150
1100
1050
1000
950

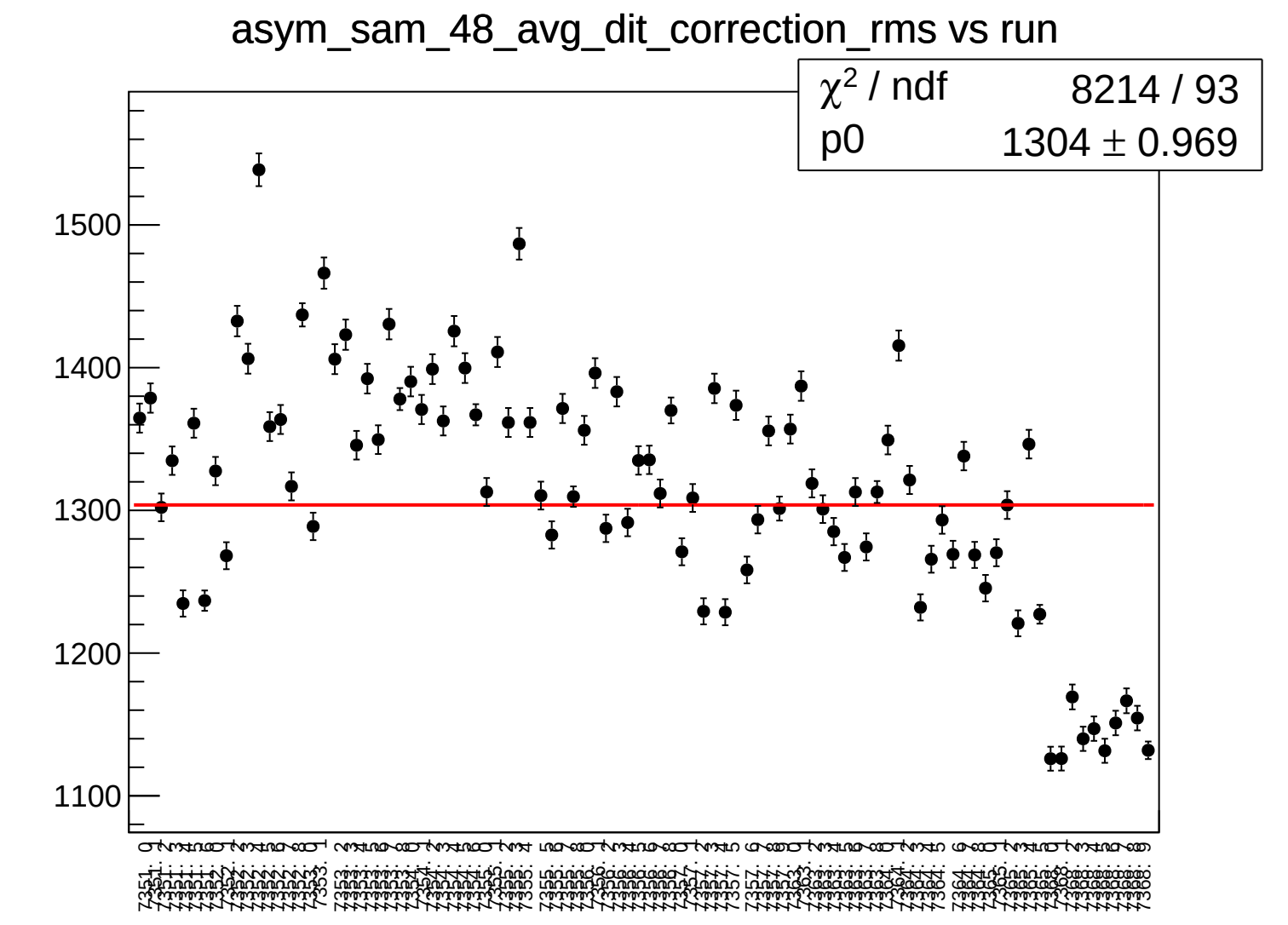

dit_asym_sam_48_avg_mean vs run
χ² / ndf 108.6 / 93
p0 −525.6 ± 344.2
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean −90.07
Std Dev 0
2
1
0
−1
−2

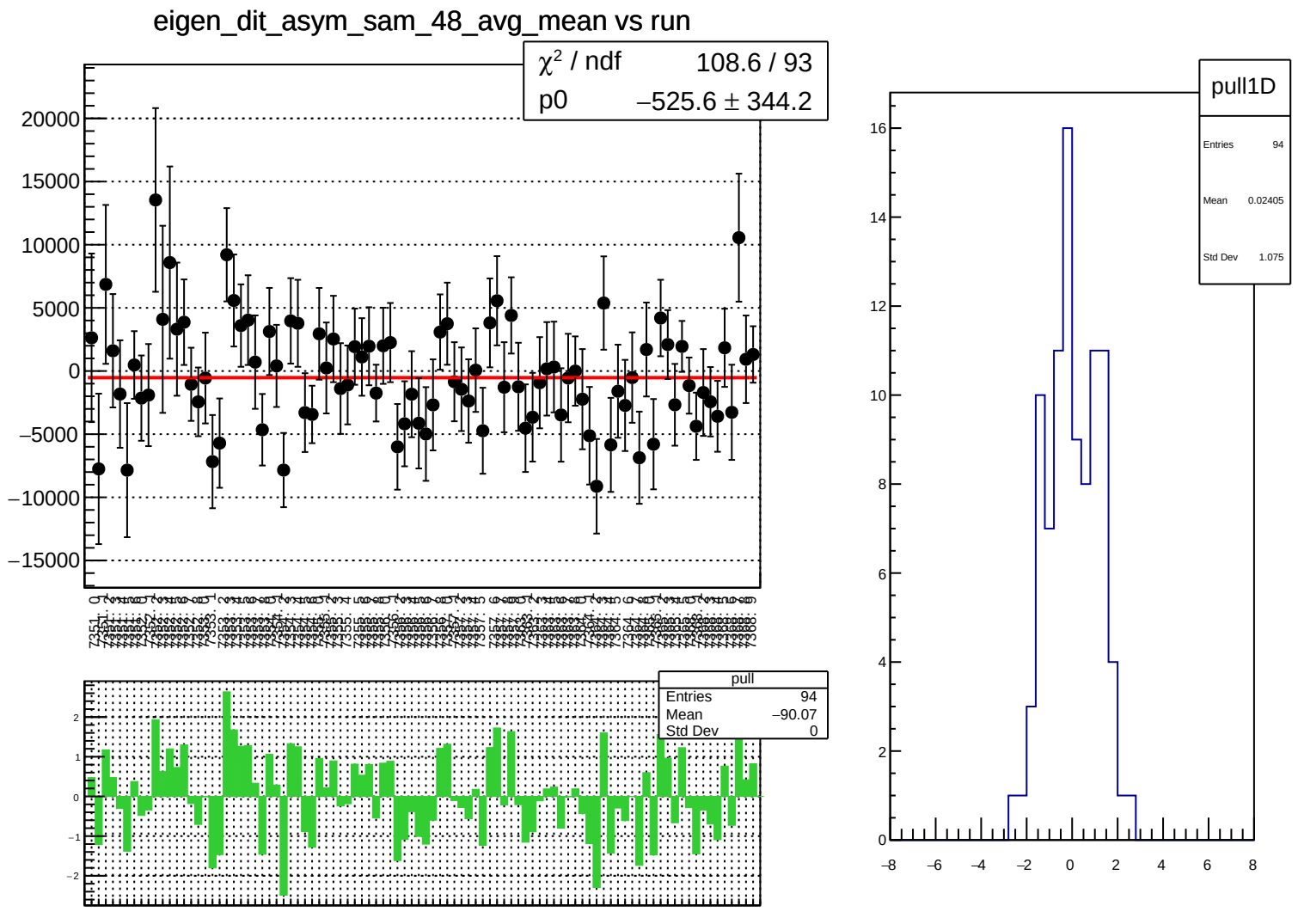

pull1D
Entries 94
Mean 0.02405
Std Dev 1.075
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

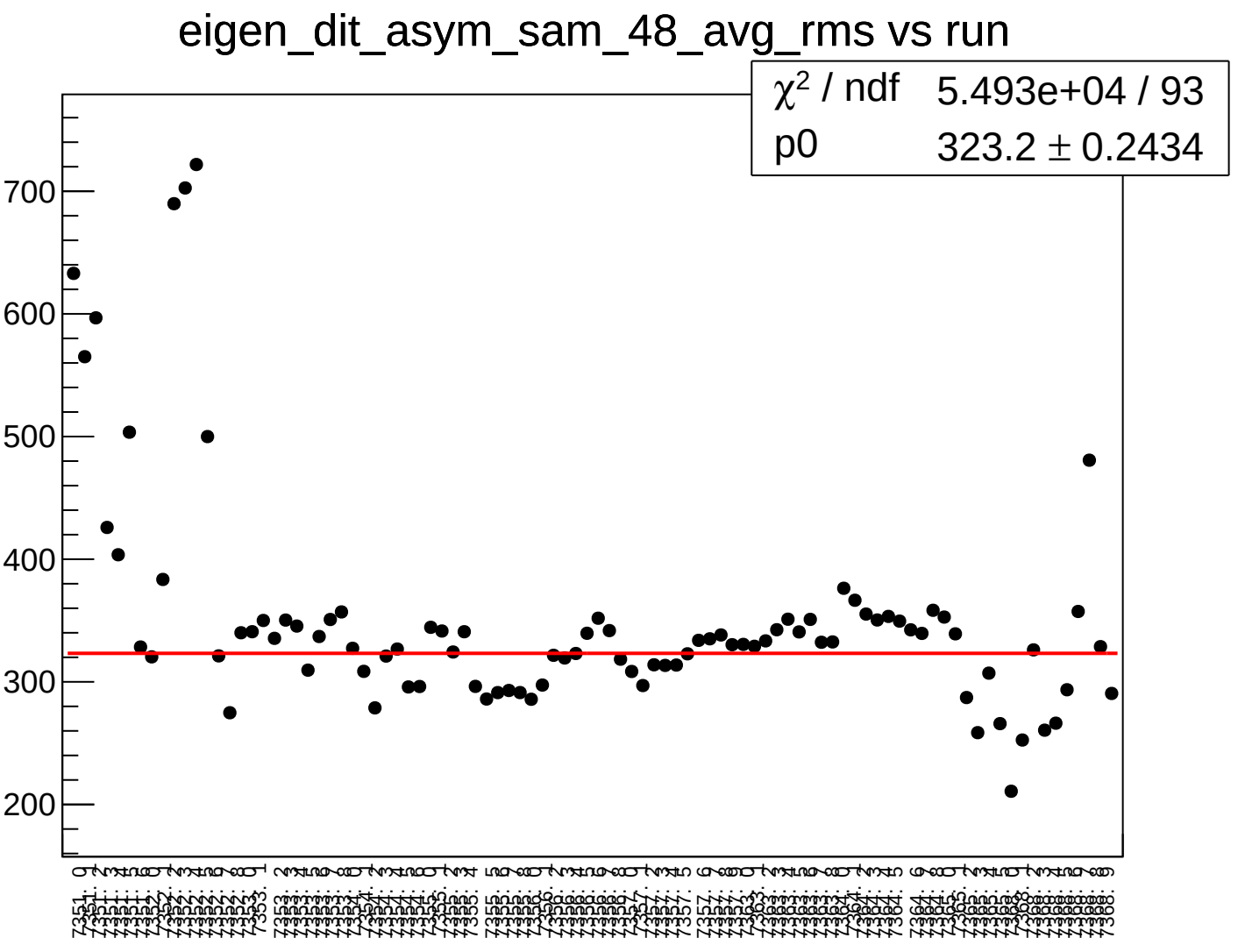

dit_asym_sam_48_avg_rms vs run
χ^2 / ndf 5.493e+04 / 93
p0 323.2 ± 0.2434
700
600
500
400
300
200

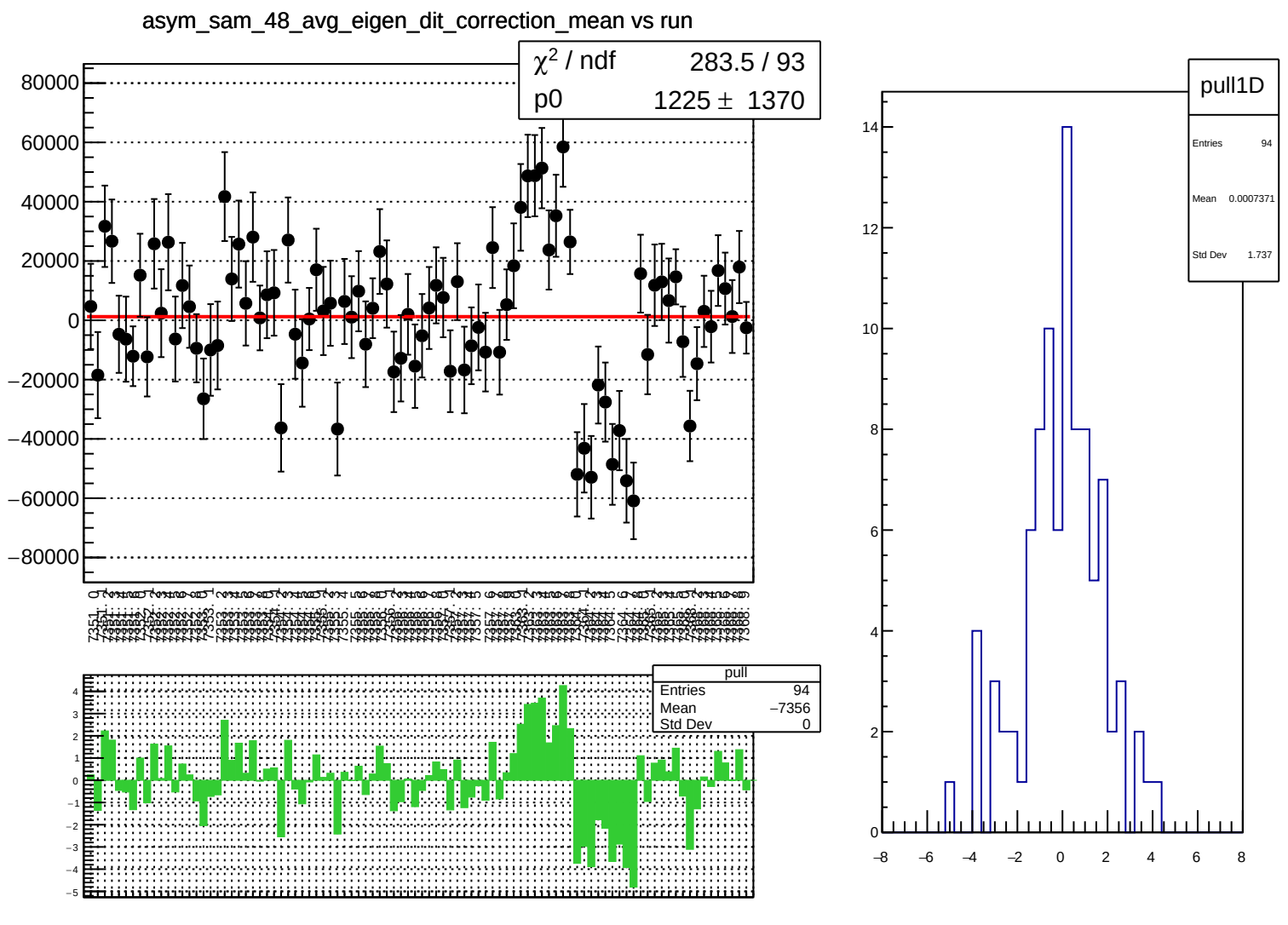

asym_sam_48_avg_dit_correction_mean vs run
χ² / ndf 283.5 / 93
p0 1225 ± 1370
pull
Entries 94
Mean −7355
Std Dev 0

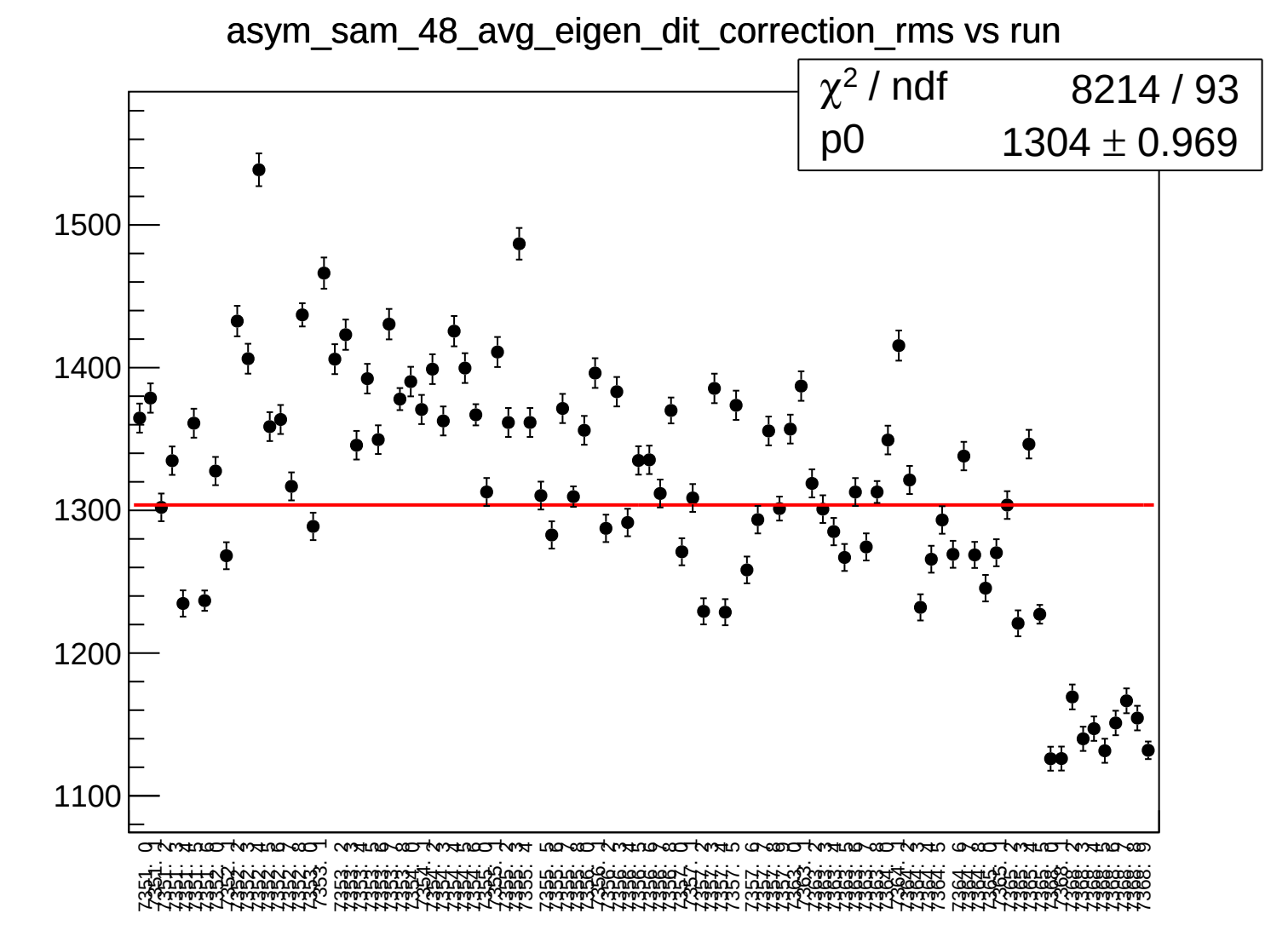

pull1D
Entries 94
Mean 0.0007372
Std Dev 1.737

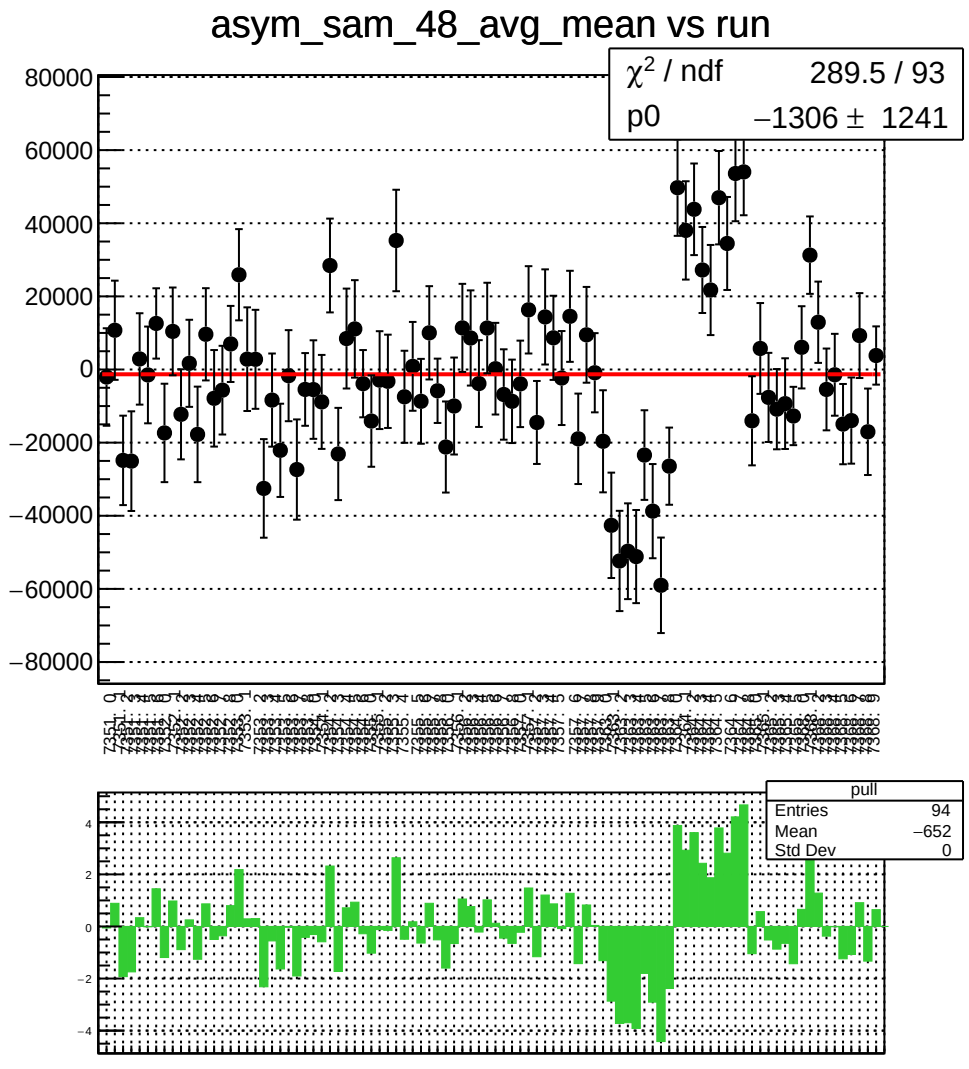

asym_sam_48_avg_dit_correction_rms vs run
χ² / ndf 8214 / 93
p0 1304 ± 0.969
1500
1400
1300
1200
1100

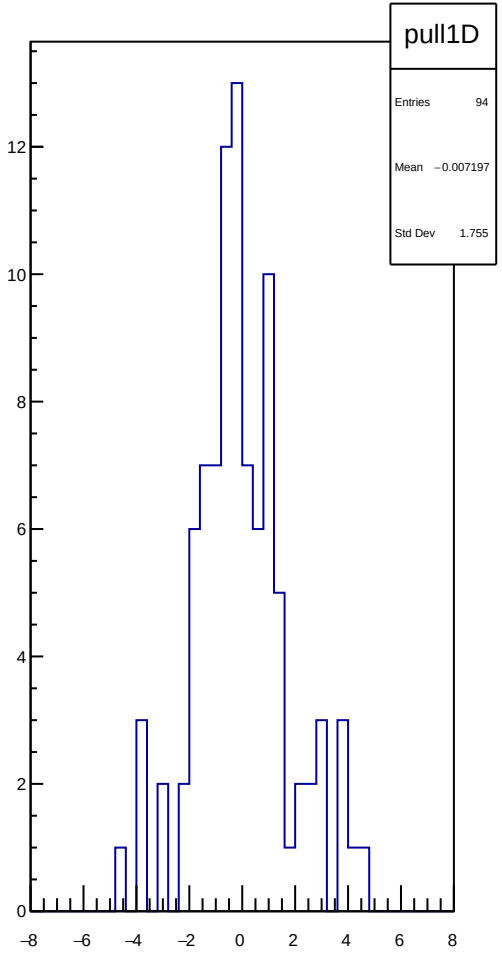

eigen_dit_asym_sam_48_avg_mean vs run
χ² / ndf 108.6 / 93
p0 −525.6 ± 344.2
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean −90.07
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.02405
Std Dev 1.075
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

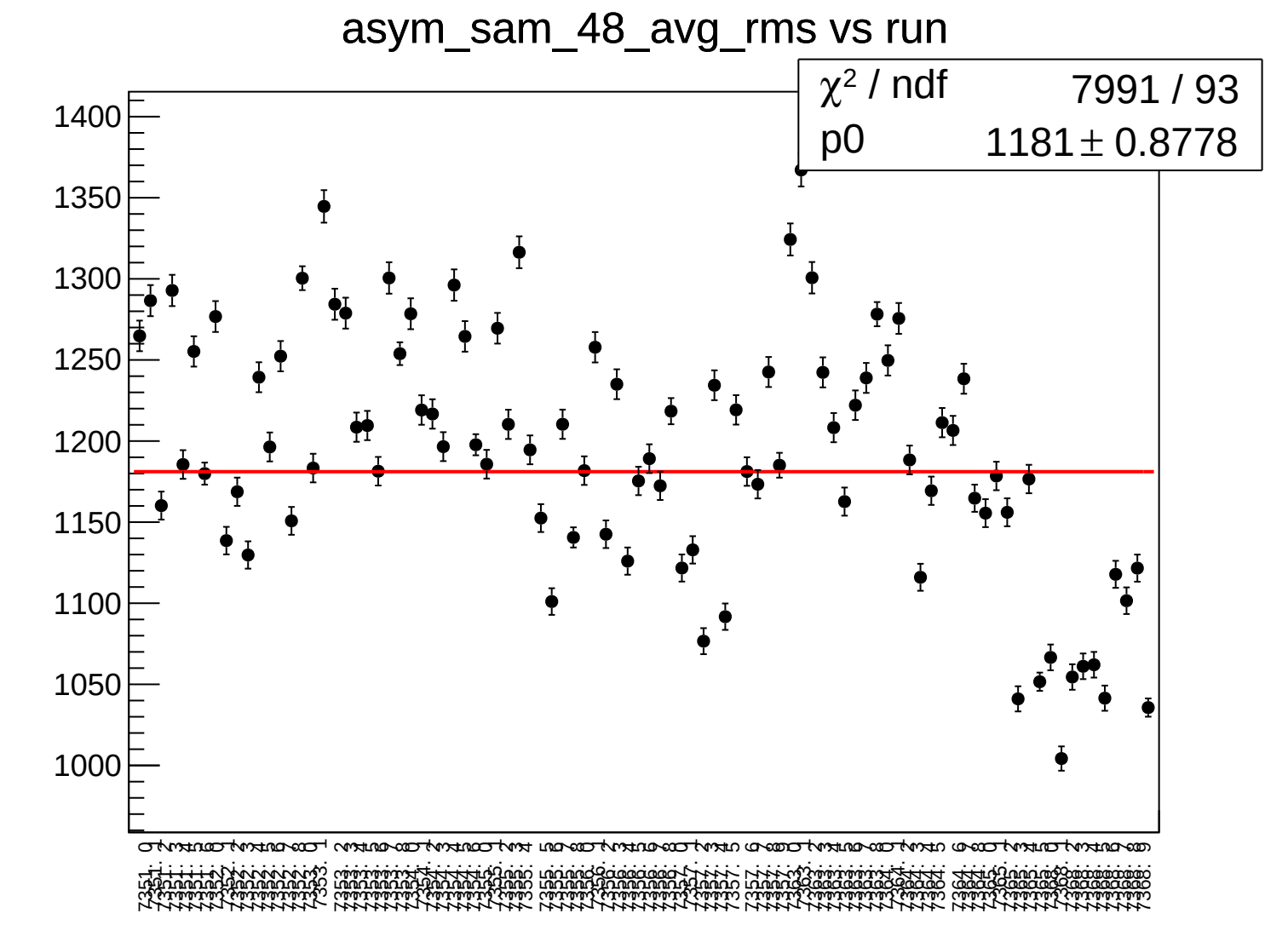

eigen_dit_asym_sam_48_avg_rms vs run
χ² / ndf 5.493e+04 / 93
p0 323.2 ± 0.2434
700
600
500
400
300
200

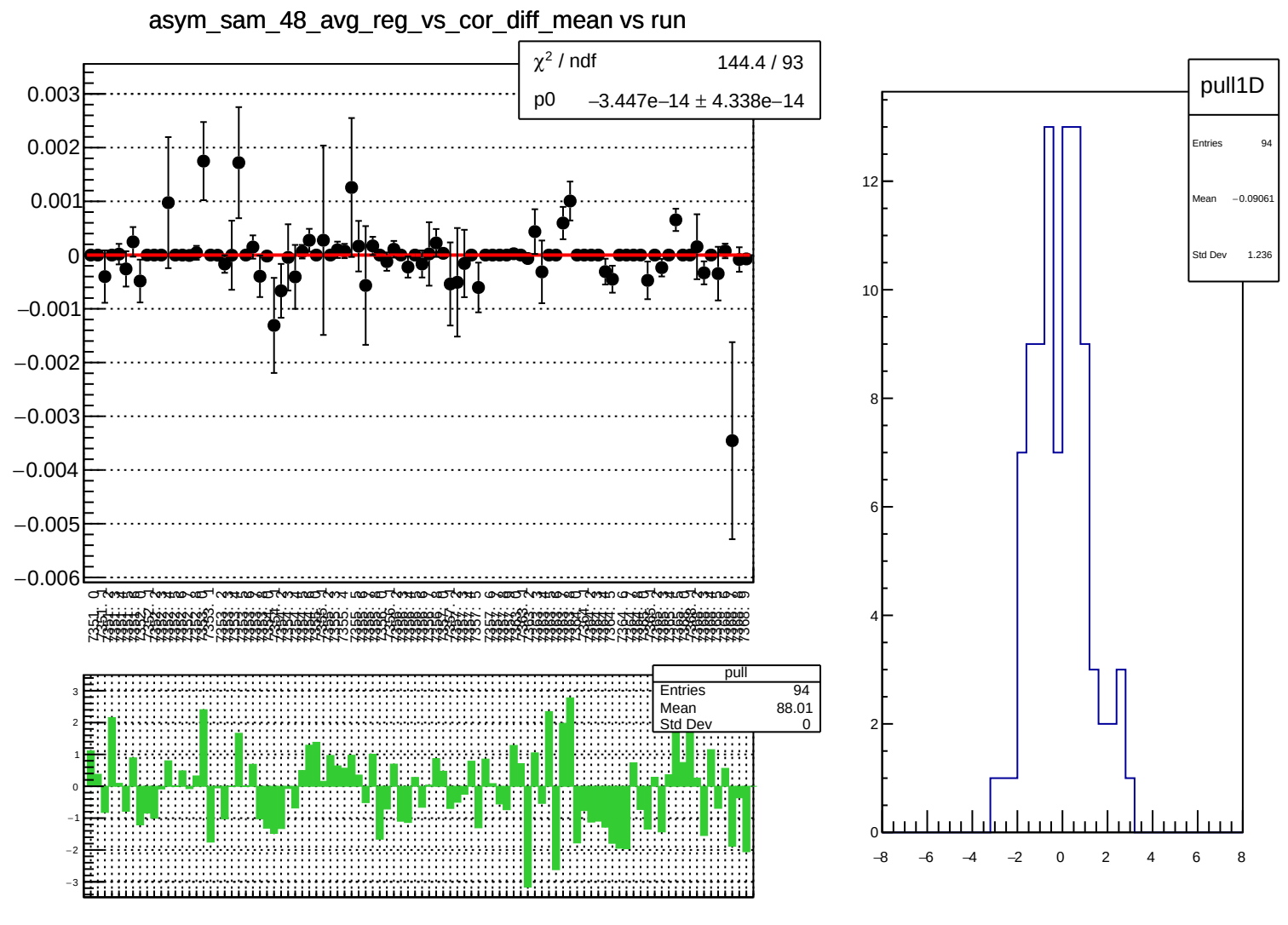

asym_sam_48_avg_eigen_dit_correction_mean vs run
χ² / ndf 283.5 / 93
p0 1225 ± 1370
pull
Entries 94
Mean −7356
Std Dev 0
pull1D
Entries 94
Mean 0.0007371
Std Dev 1.737

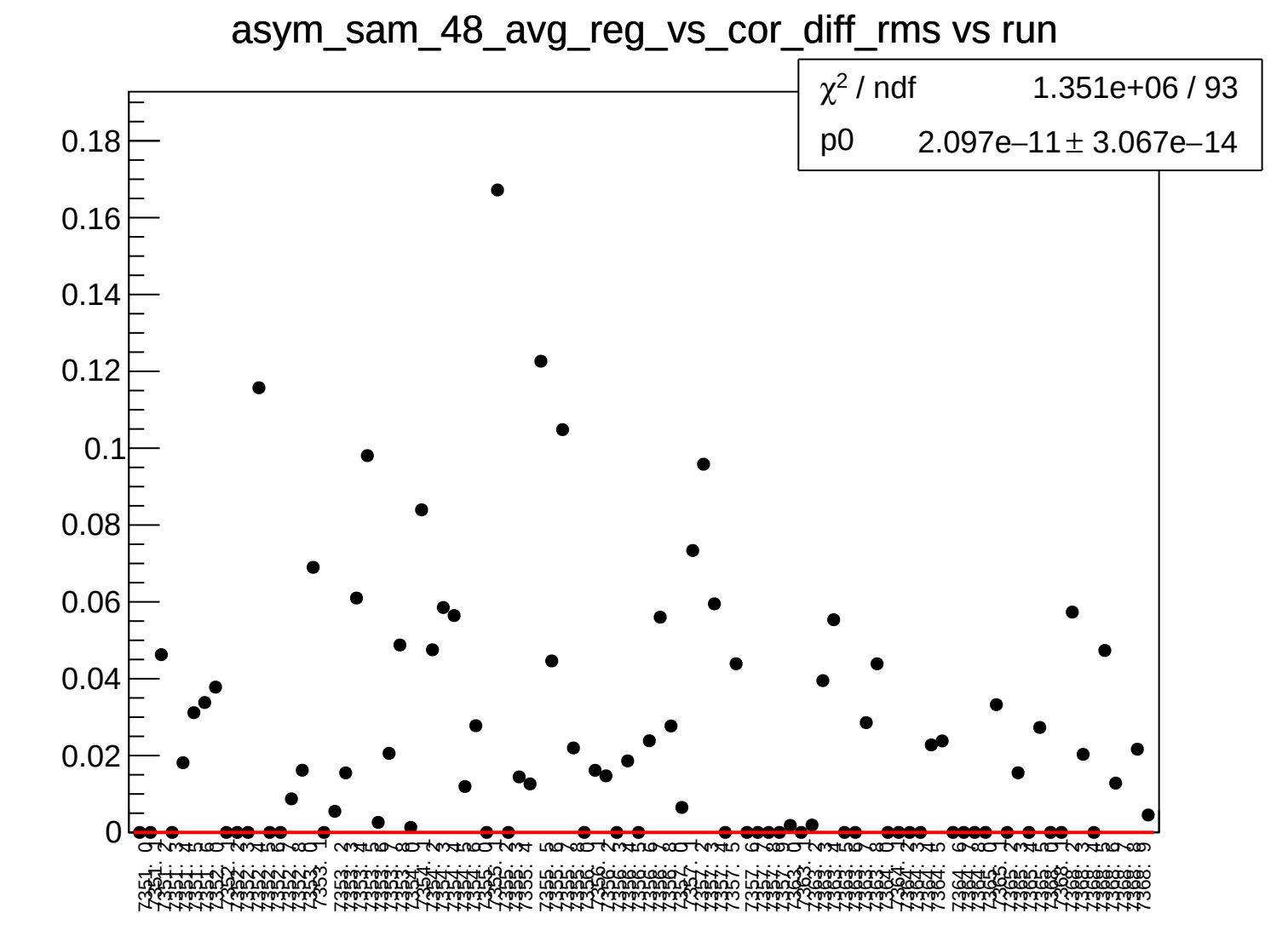

asym_sam_48_avg_eigen_dit_correction_rms vs run
χ² / ndf 8214 / 93
p0 1304 ± 0.969
1500
1400
1300
1200
1100

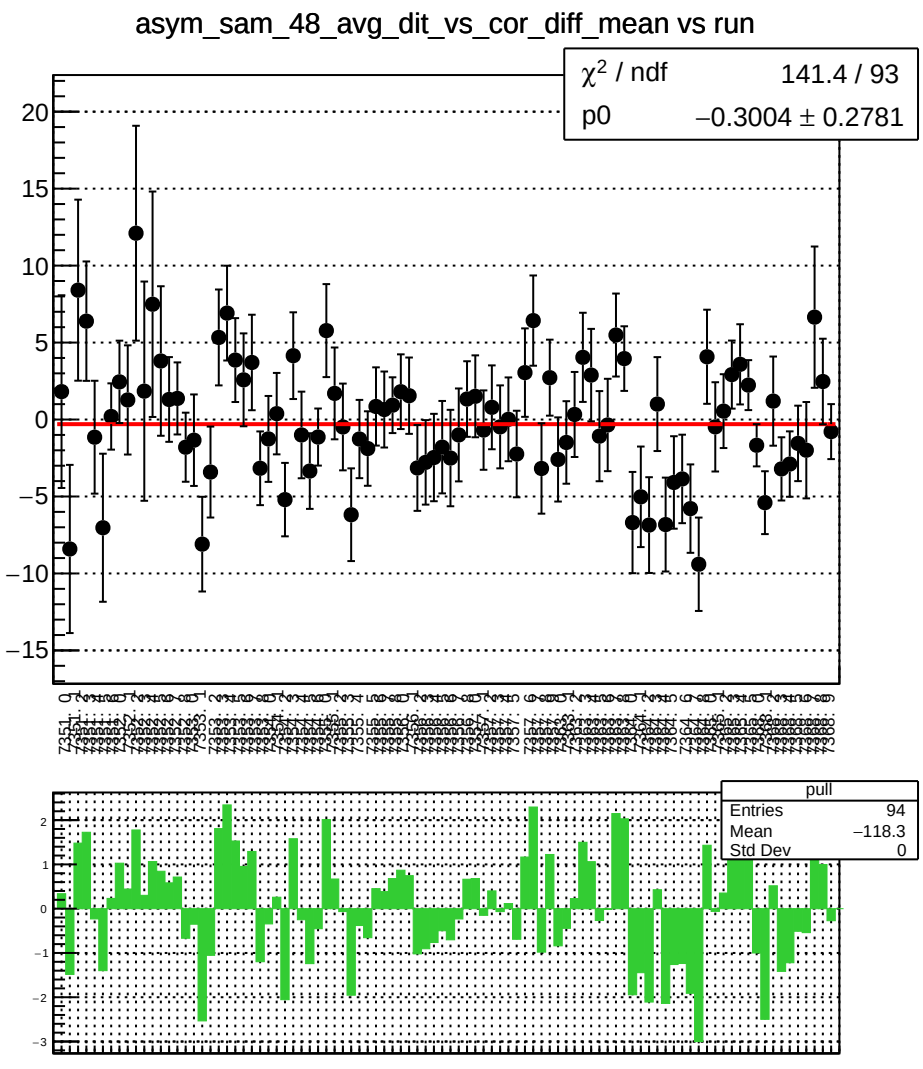

asym_sam_48_avg_mean vs run
χ² / ndf 289.5 / 93
p0 −1306 ± 1241
pull
Entries 94
Mean −652
Std Dev 0

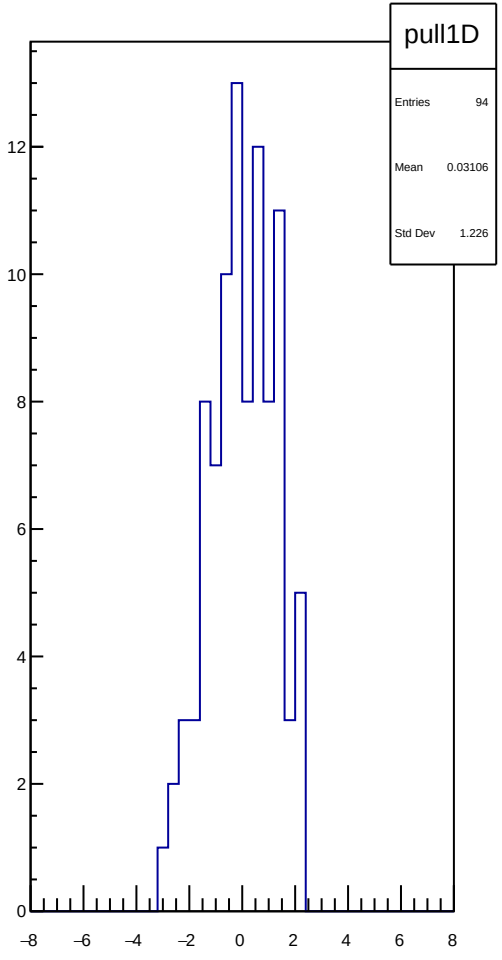

pull1D
Entries 94
Mean −0.007197
Std Dev 1.755

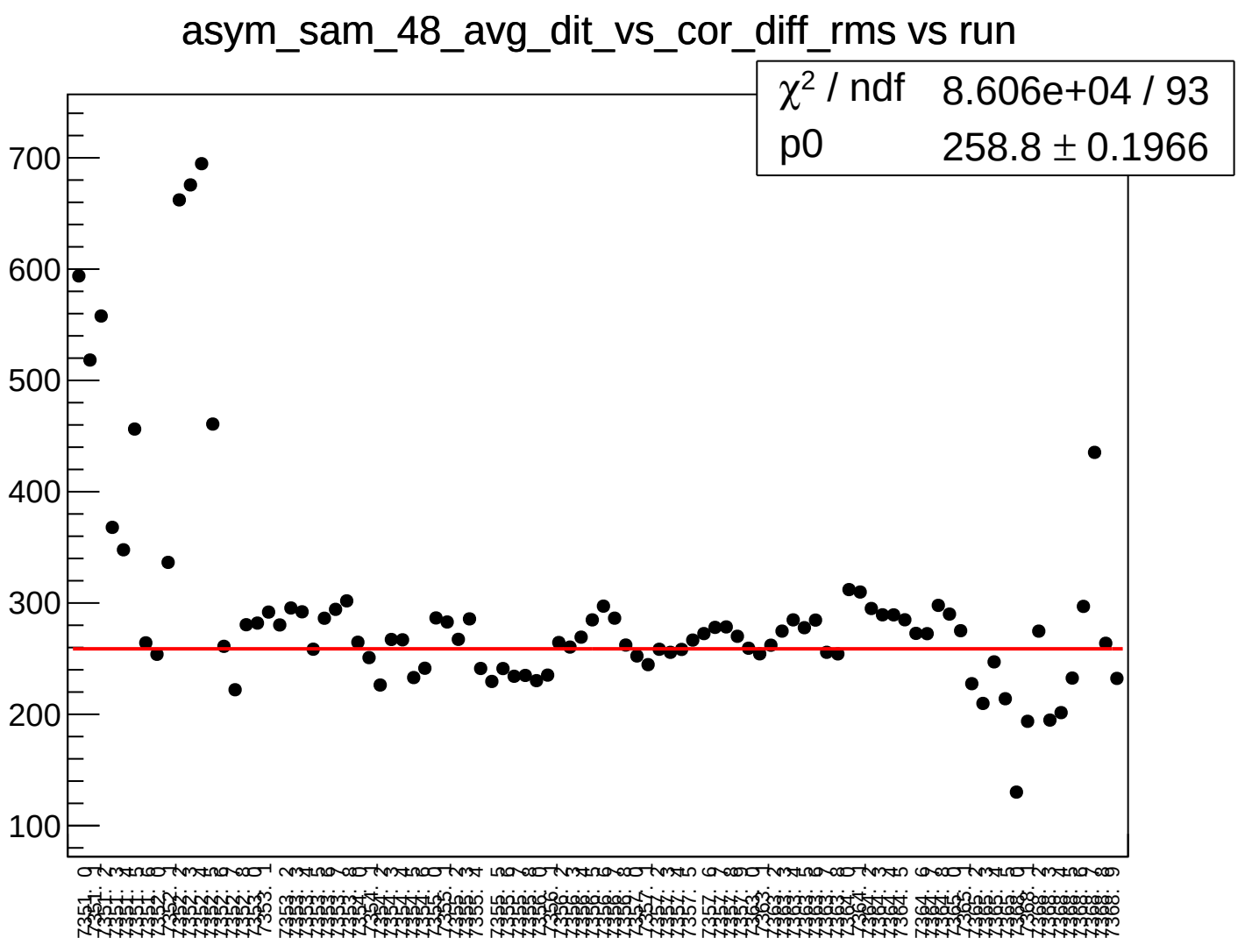

asym_sam_48_avg_rms vs run
χ² / ndf 7991 / 93
p0 1181 ± 0.8778
1400
1350
1300
1250
1200
1150
1100
1050
1000

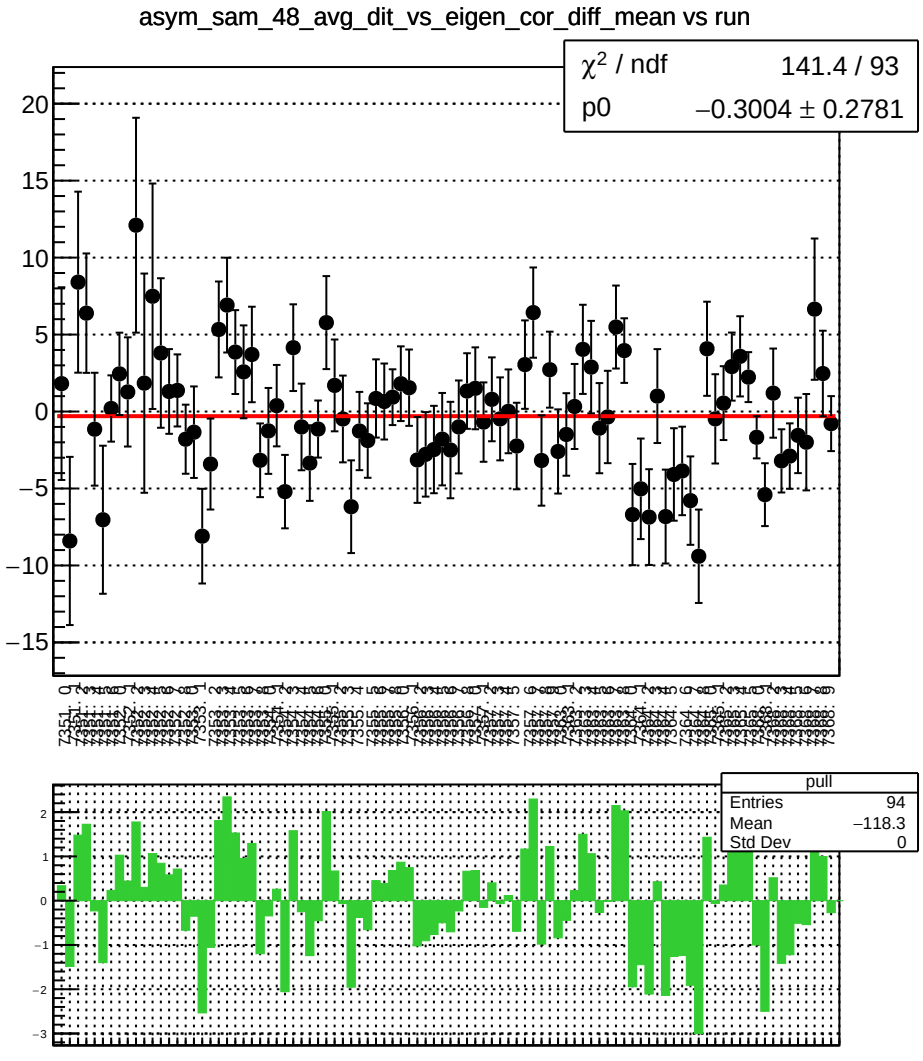

asym_sam_48_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 144.4 / 93
p0 −3.447e−14 ± 4.338e−14
0.003
0.002
0.001
0
−0.001
−0.002
−0.003
−0.004
−0.005
−0.006
pull
Entries 94
Mean 88.01
Std Dev 0
pull1D
Entries 94
Mean −0.09061
Std Dev 1.236
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

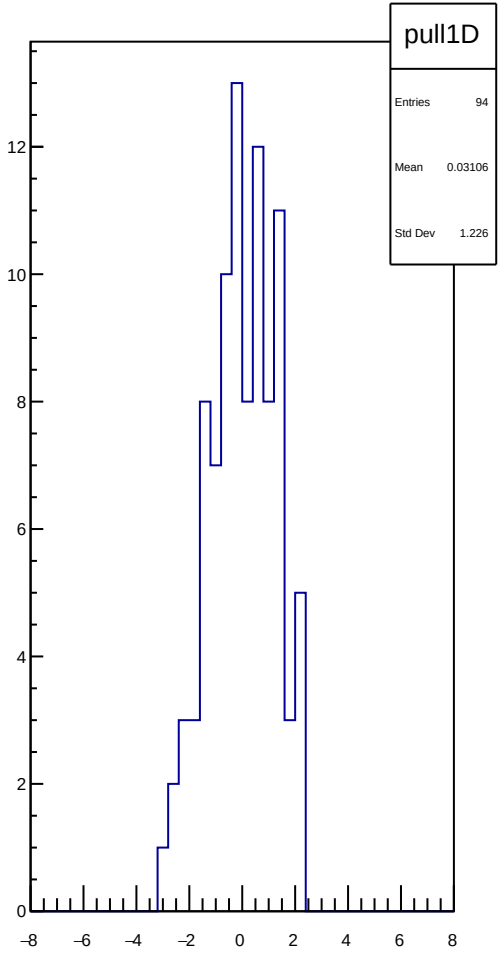

asym_sam_48_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.351e+06 / 93
p0 2.097e−11 ± 3.067e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

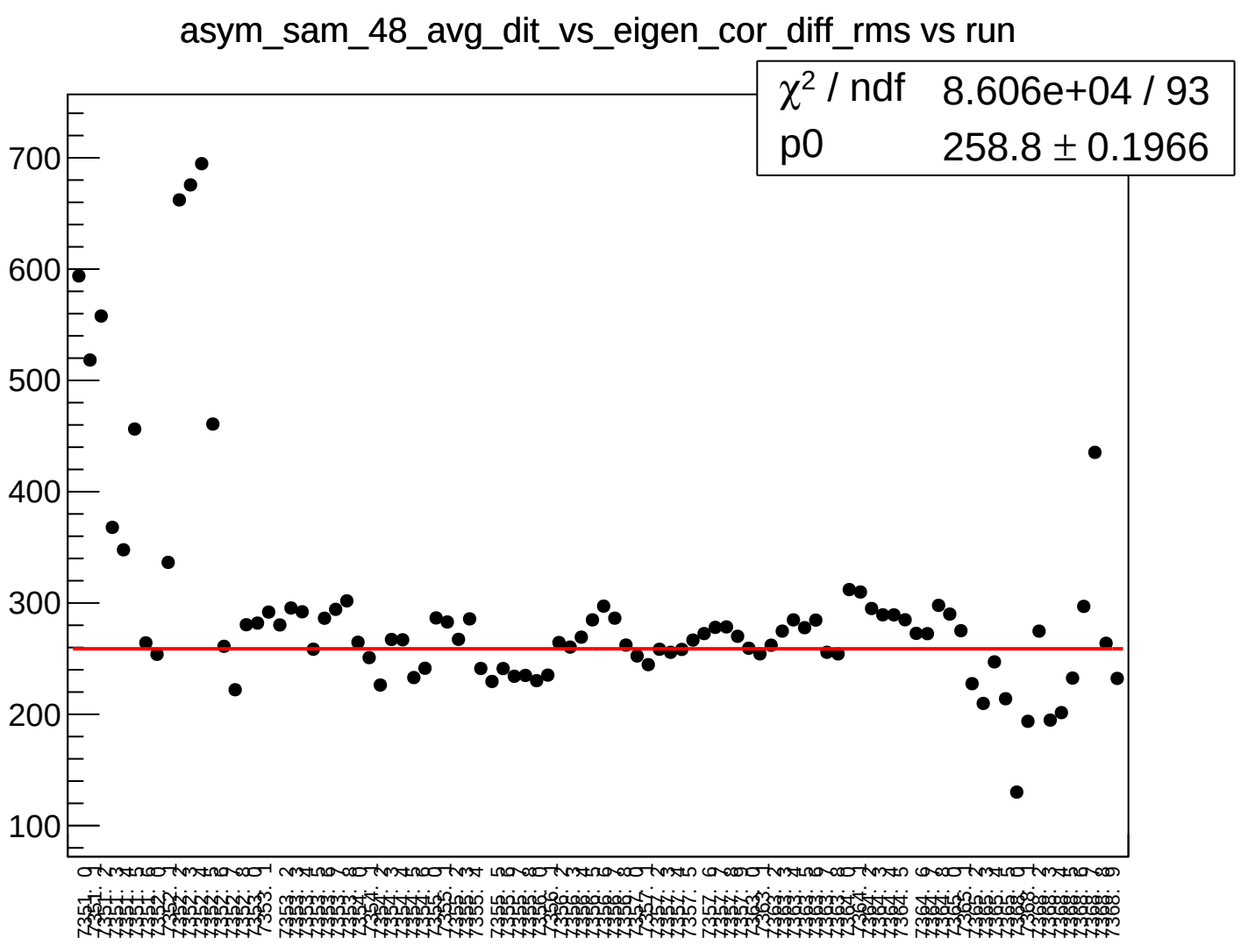

asym_sam_48_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 141.4 / 93
p0 −0.3004 ± 0.2781
pull
Entries 94
Mean −118.3
Std Dev 0

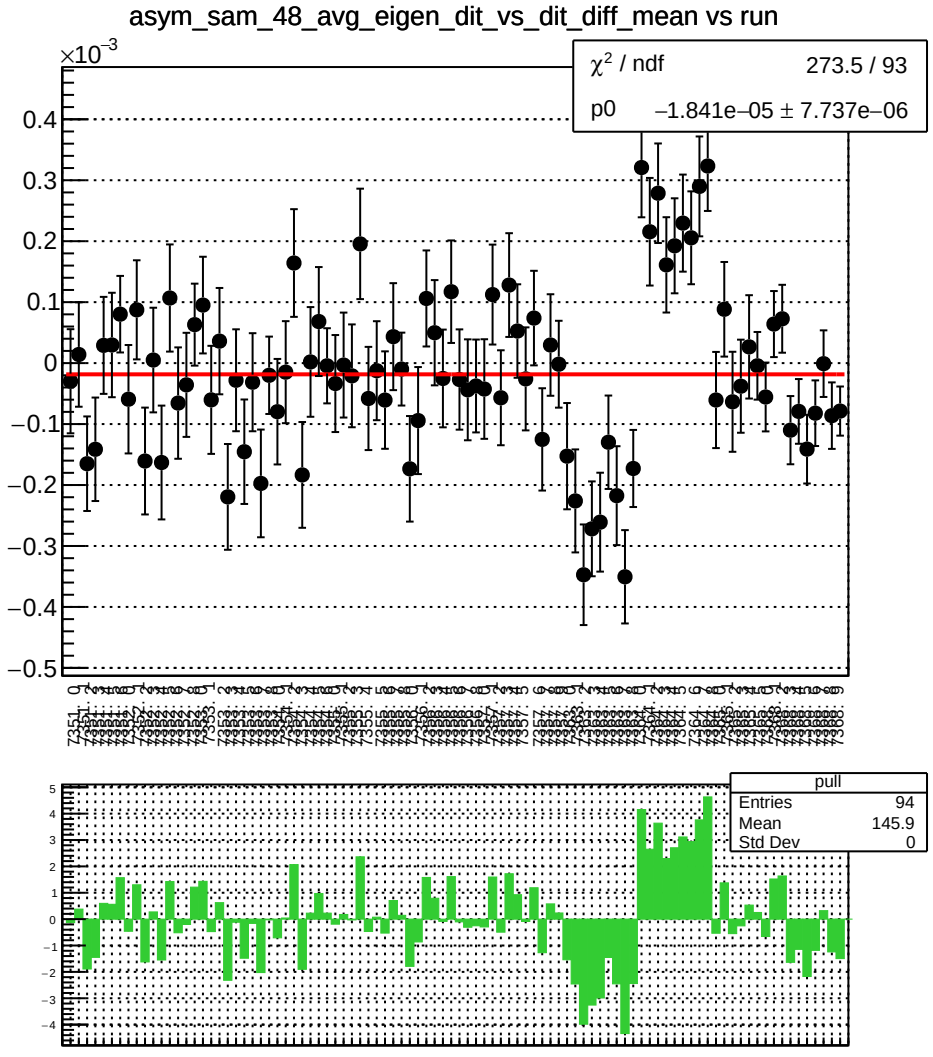

pull1D
Entries 94
Mean 0.03106
Std Dev 1.226

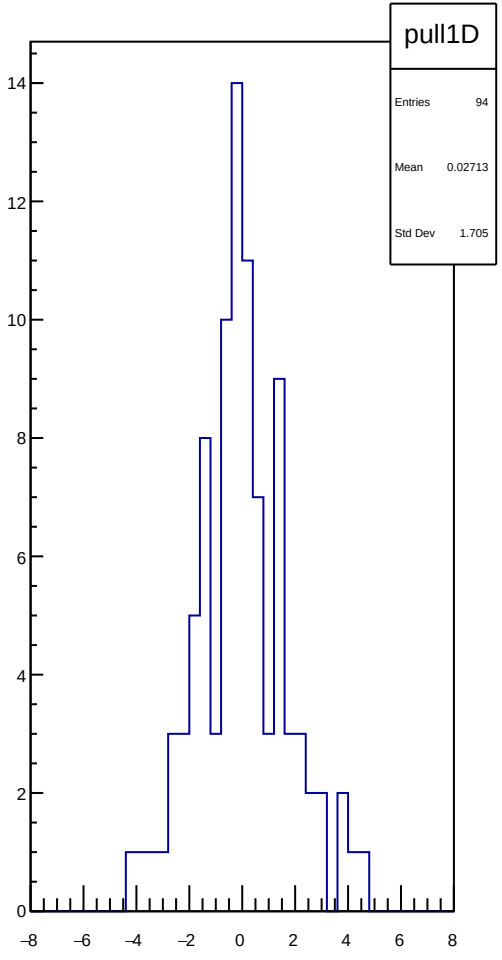

asym_sam_48_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.606e+04 / 93
p0 258.8 ± 0.1966
700
600
500
400
300
200
100

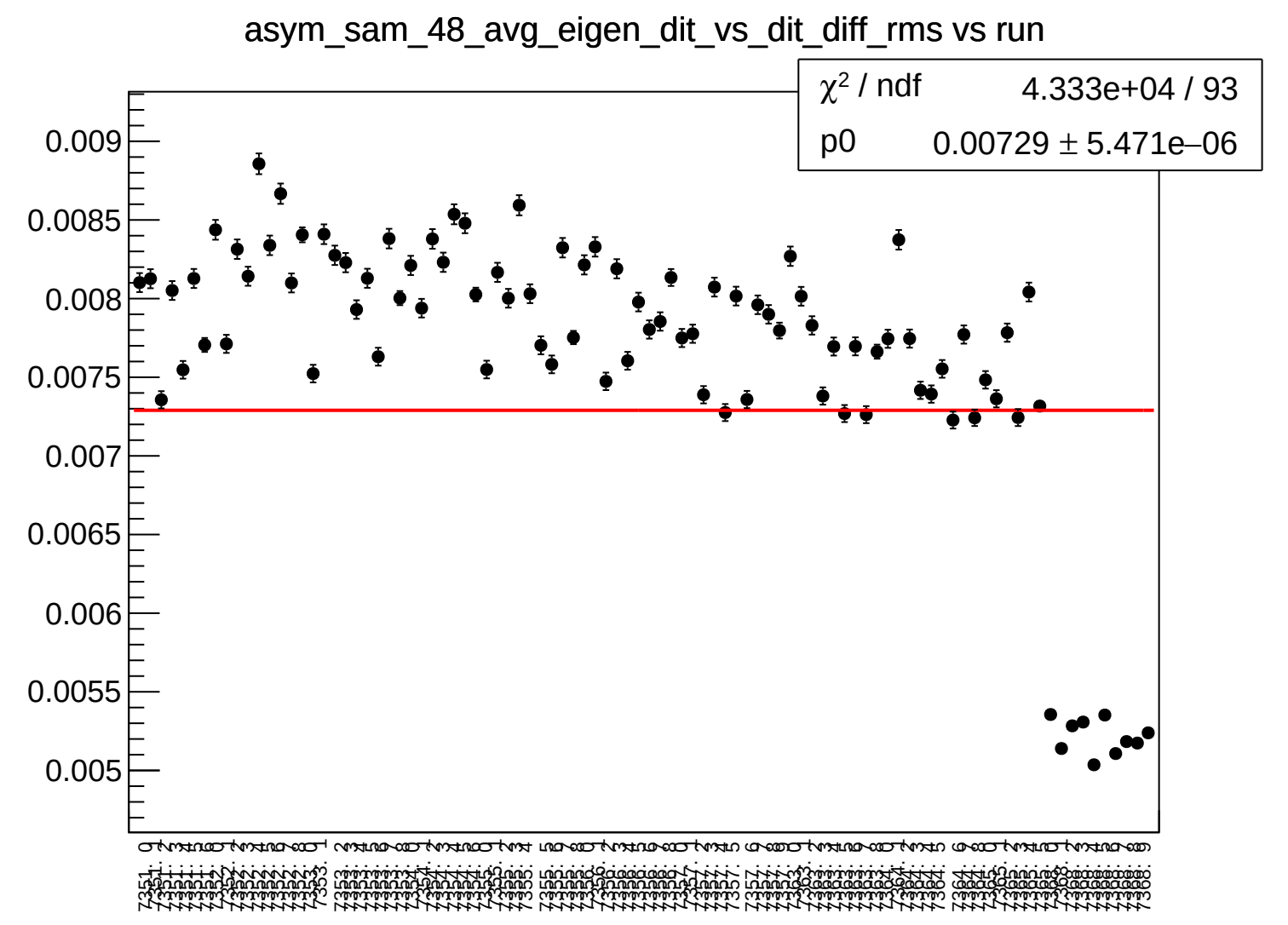

asym_sam_48_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 141.4 / 93
p0 −0.3004 ± 0.2781
pull
Entries 94
Mean −118.3
Std Dev 0

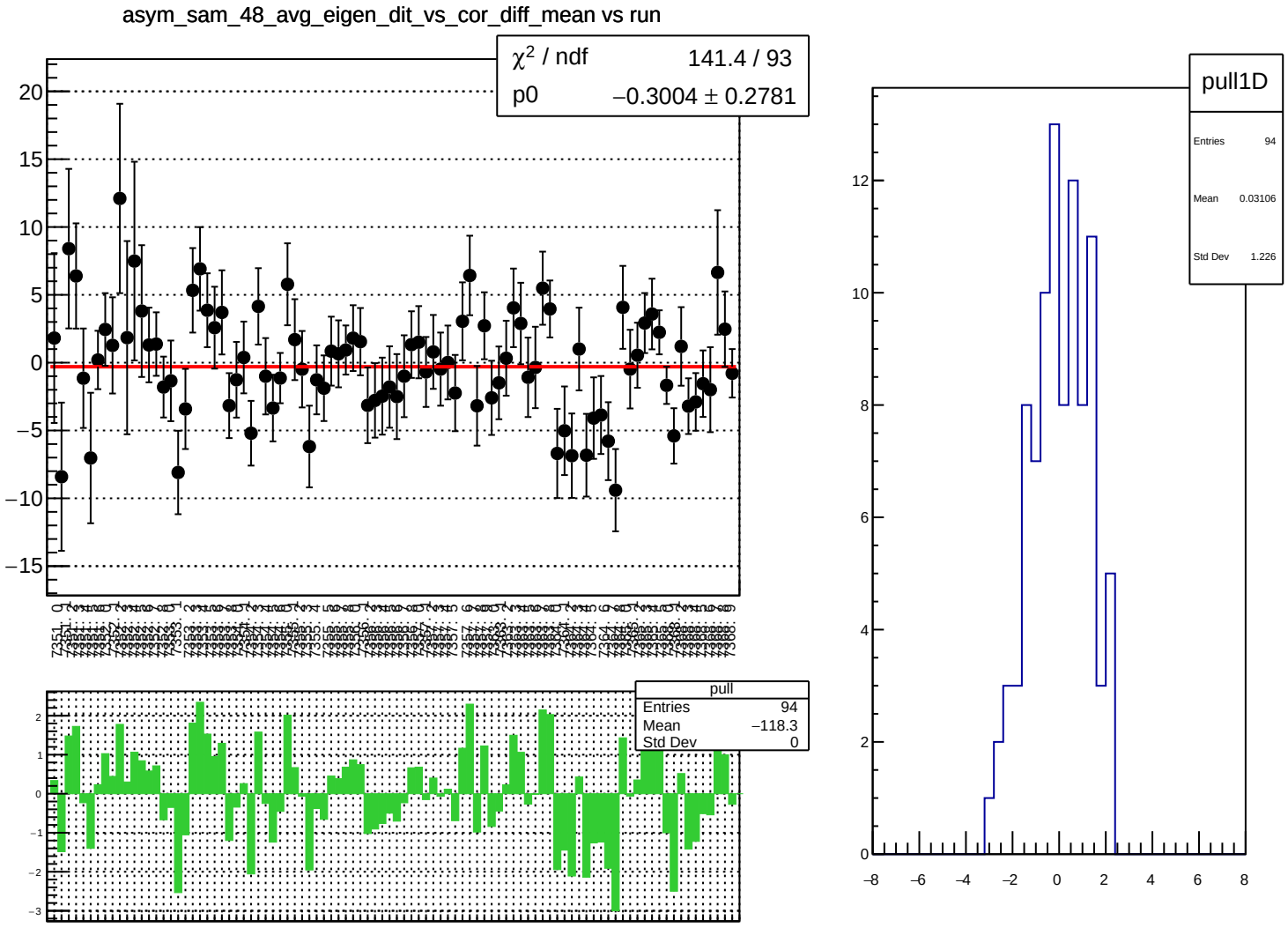

pull1D
Entries 94
Mean 0.03106
Std Dev 1.226

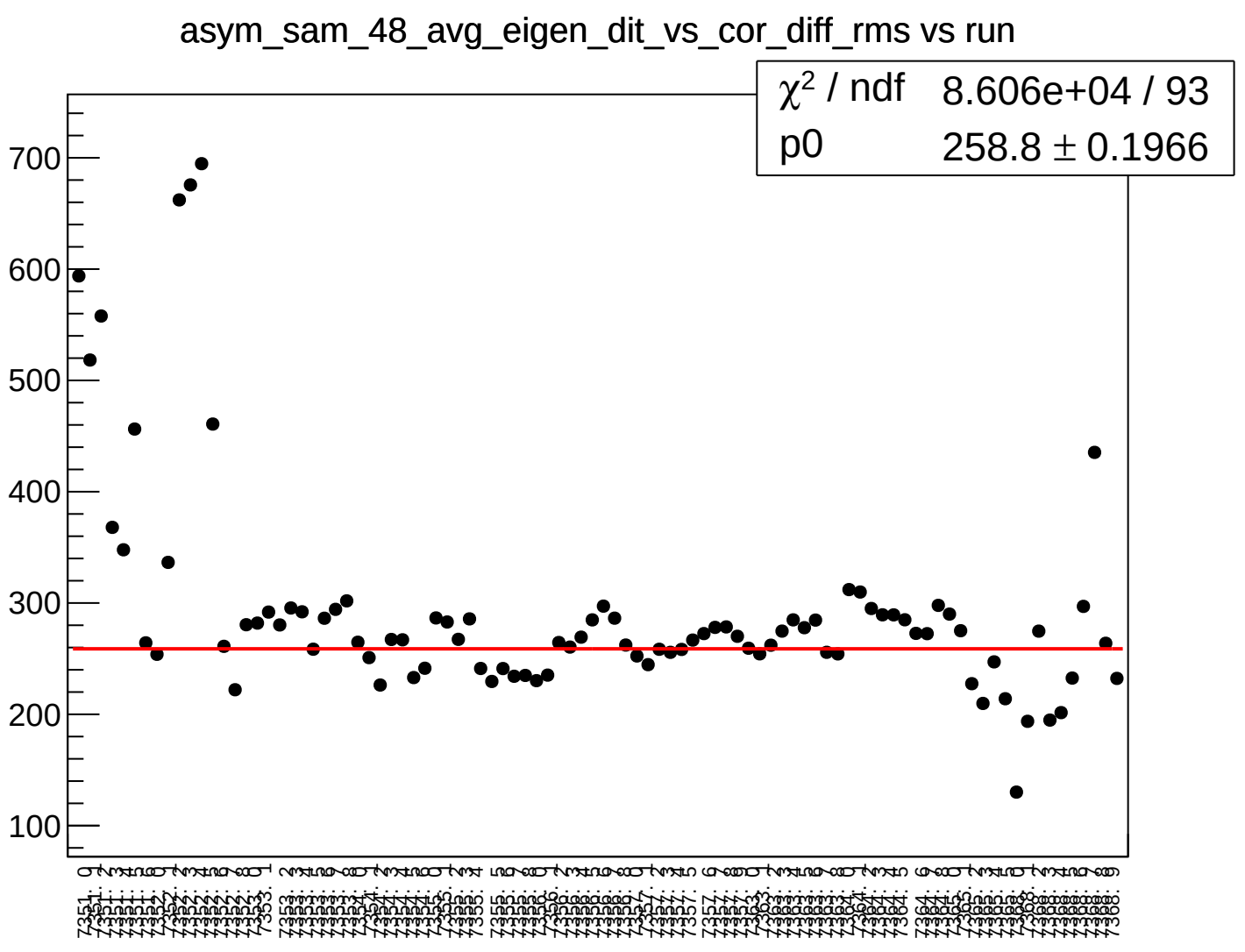

asym_sam_48_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.606e+04 / 93
p0 258.8 ± 0.1966
700
600
500
400
300
200
100

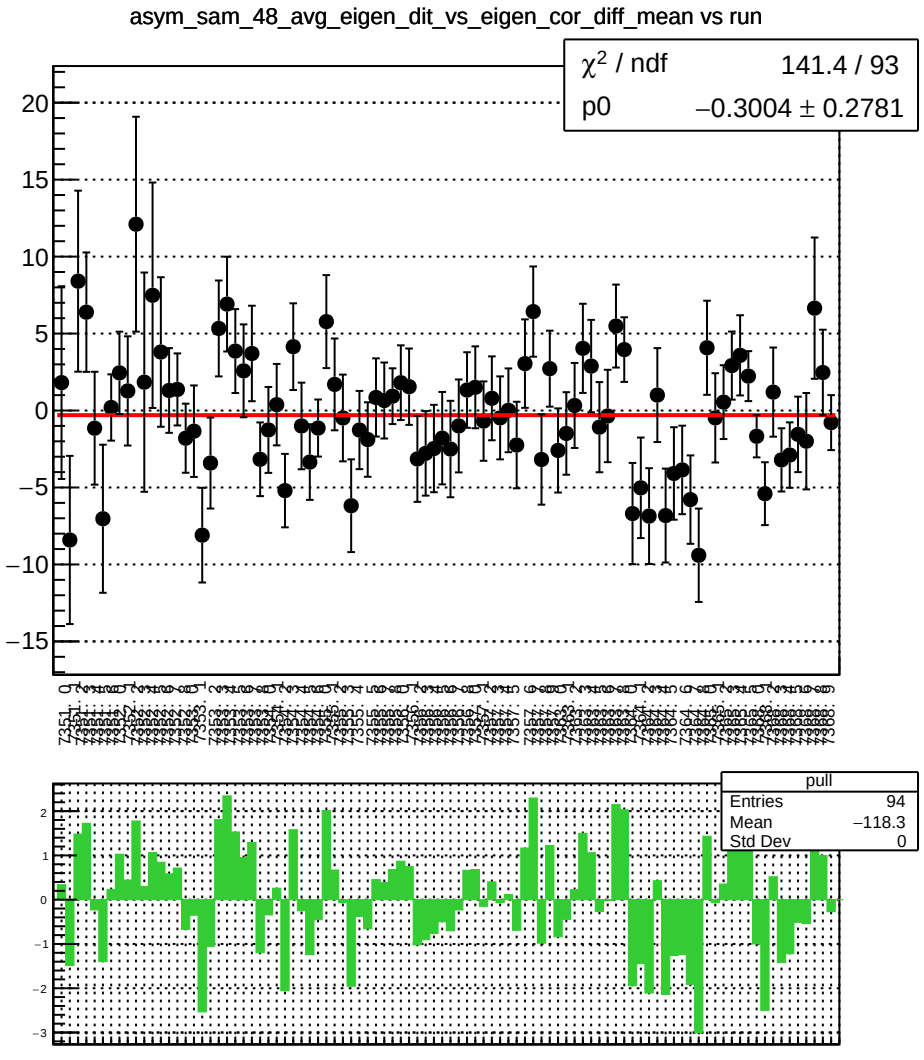

asym_sam_48_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 273.5 / 93
p0 −1.841e−05 ± 7.737e−06
pull
Entries 94
Mean 145.9
Std Dev 0

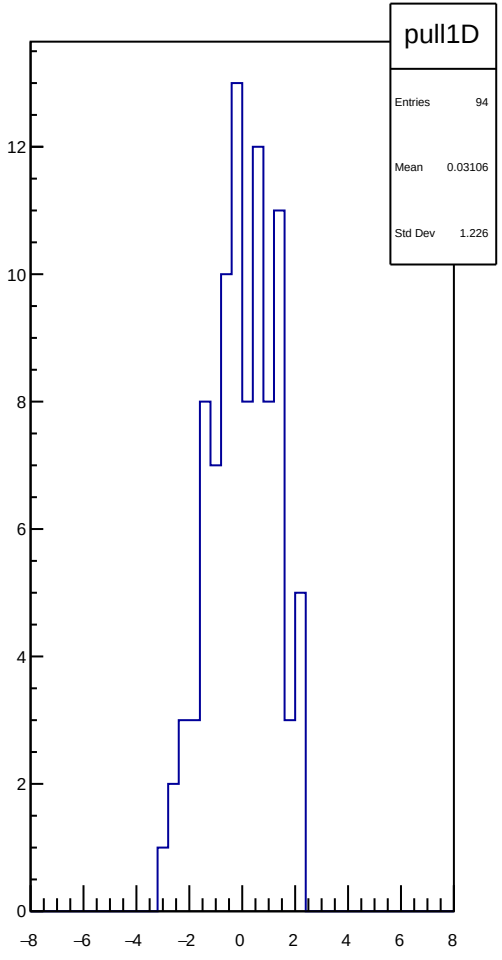

pull1D
Entries 94
Mean 0.02713
Std Dev 1.705

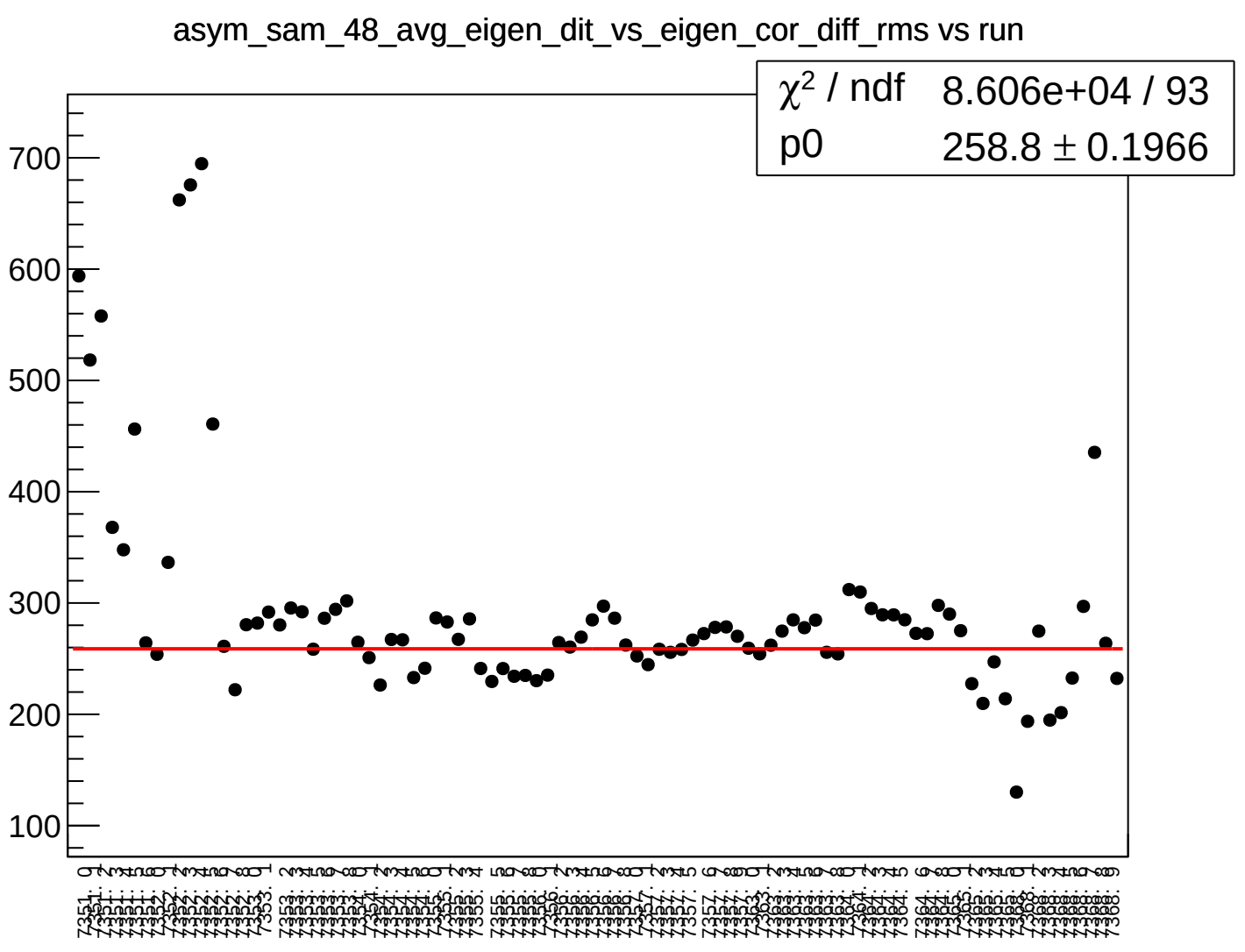

asym_sam_48_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.333e+04 / 93
p0 0.00729 ± 5.471e−06
0.009
0.0085
0.008
0.0075
0.007
0.0065
0.006
0.0055
0.005

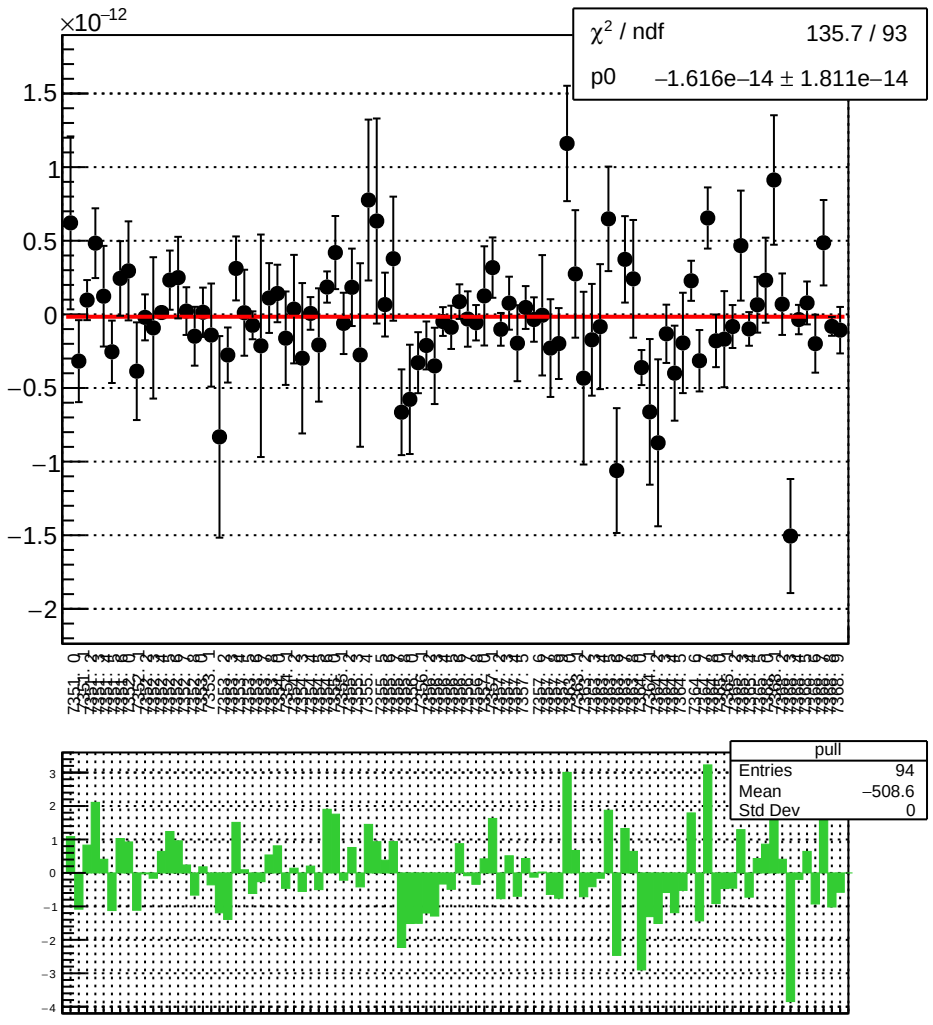

asym_sam_48_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 141.4 / 93
p0 −0.3004 ± 0.2781
pull
Entries 94
Mean −118.3
Std Dev 0
pull1D
Entries 94
Mean 0.03106
Std Dev 1.226

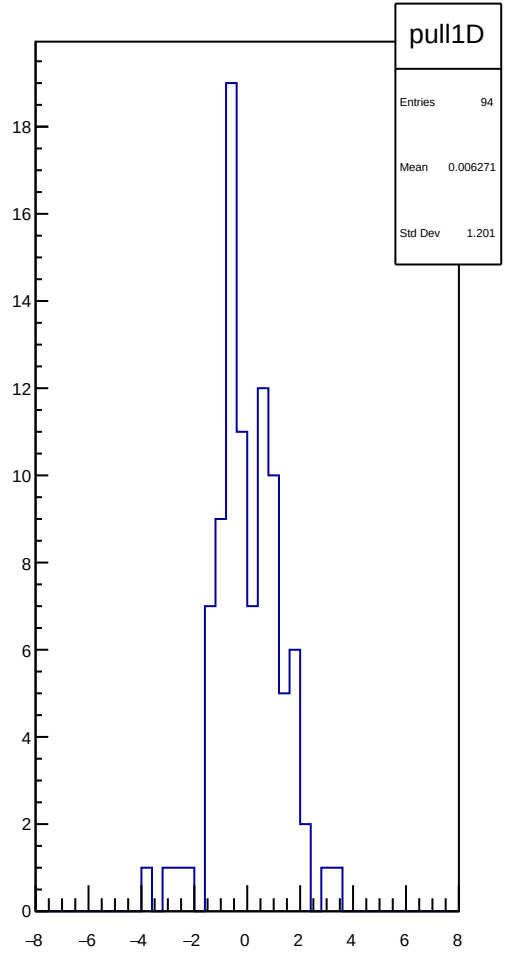

asym_sam_48_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.606e+04 / 93
p0 258.8 ± 0.1966
700
600
500
400
300
200
100

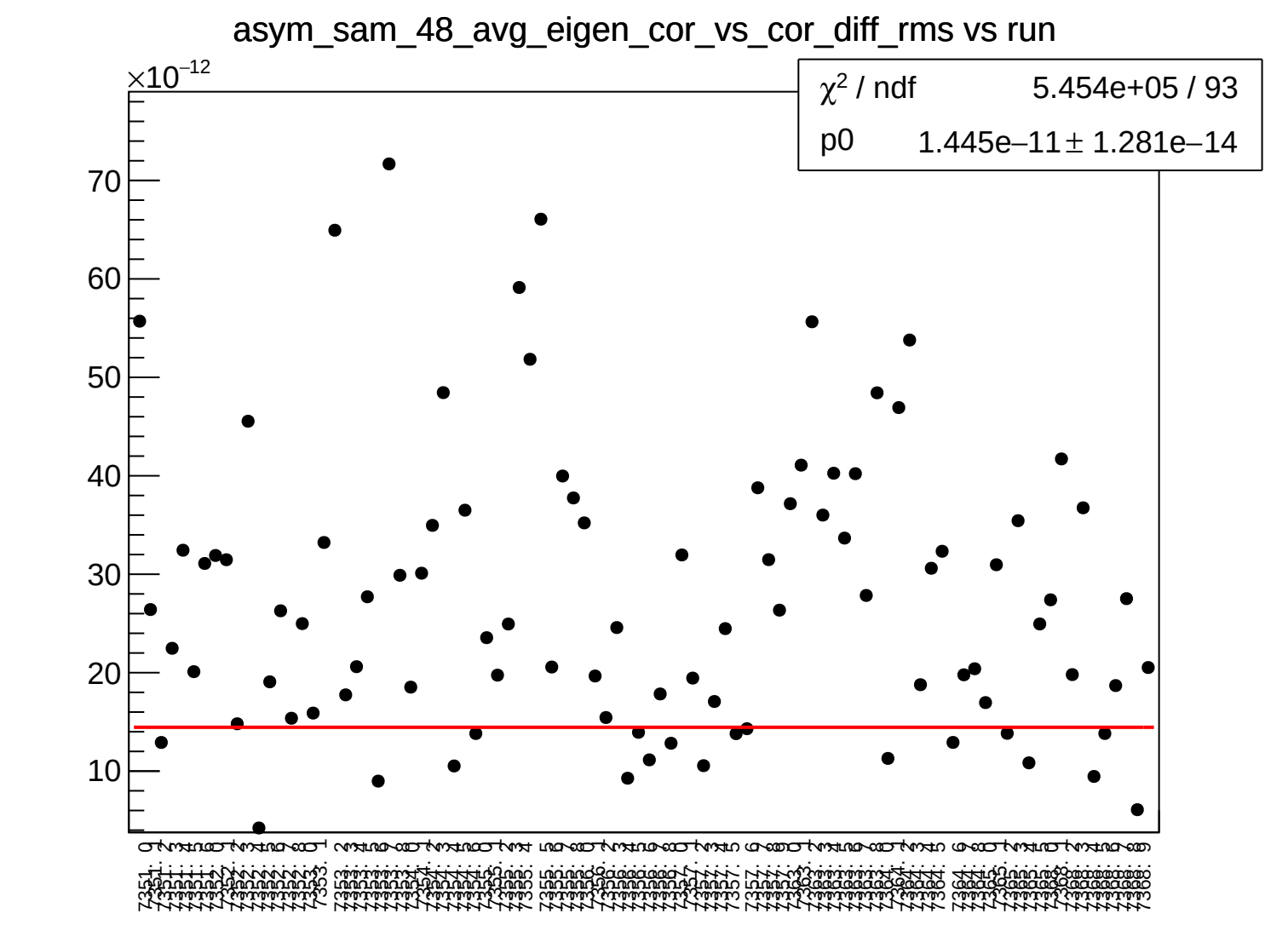

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 141.4 / 93
p0 −0.3004 ± 0.2781
pull
Entries 94
Mean −118.3
Std Dev 0

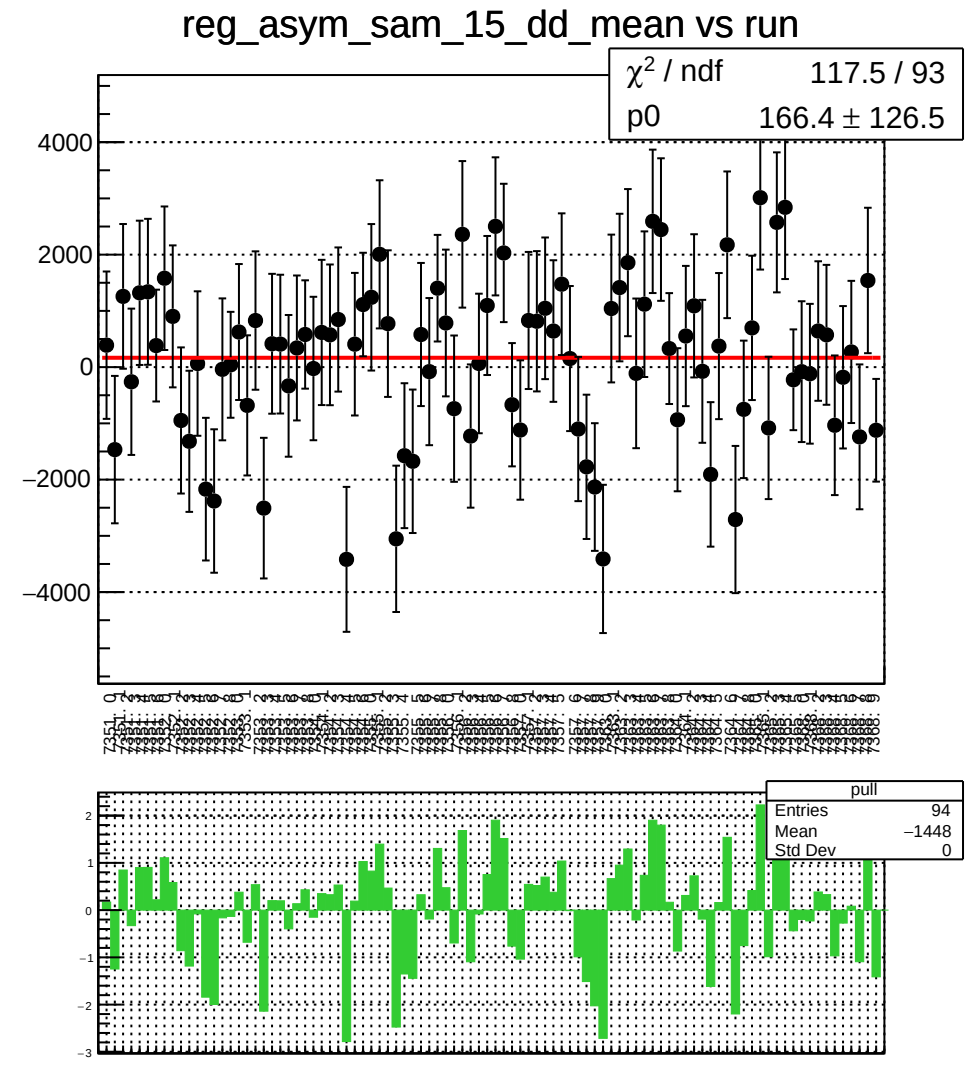

pull1D
Entries 94
Mean 0.03106
Std Dev 1.226

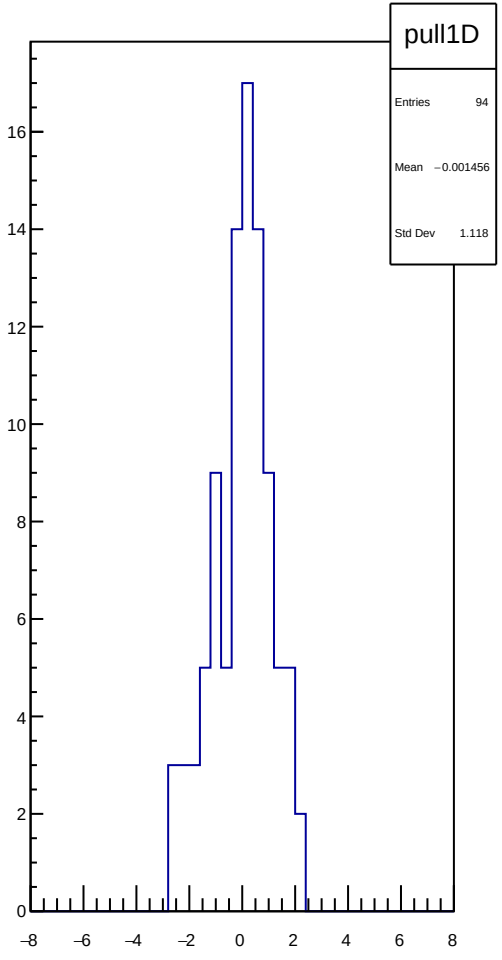

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.606e+04 / 93
p0 258.8 ± 0.1966
700
600
500
400
300
200
100

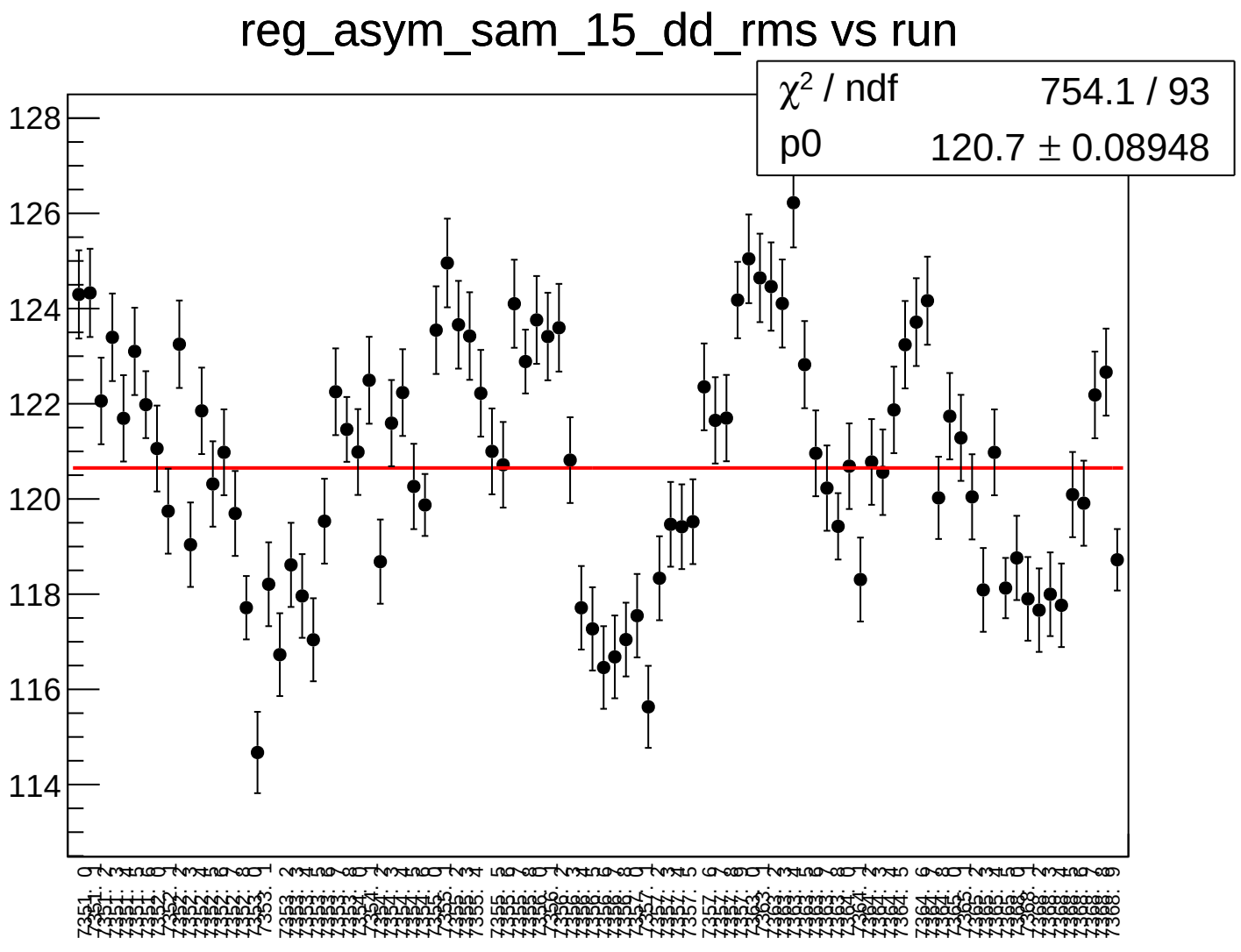

asym_sam_48_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 135.7 / 93
p0 −1.616e−14 ± 1.811e−14
pull
Entries 94
Mean −508.6
Std Dev 0

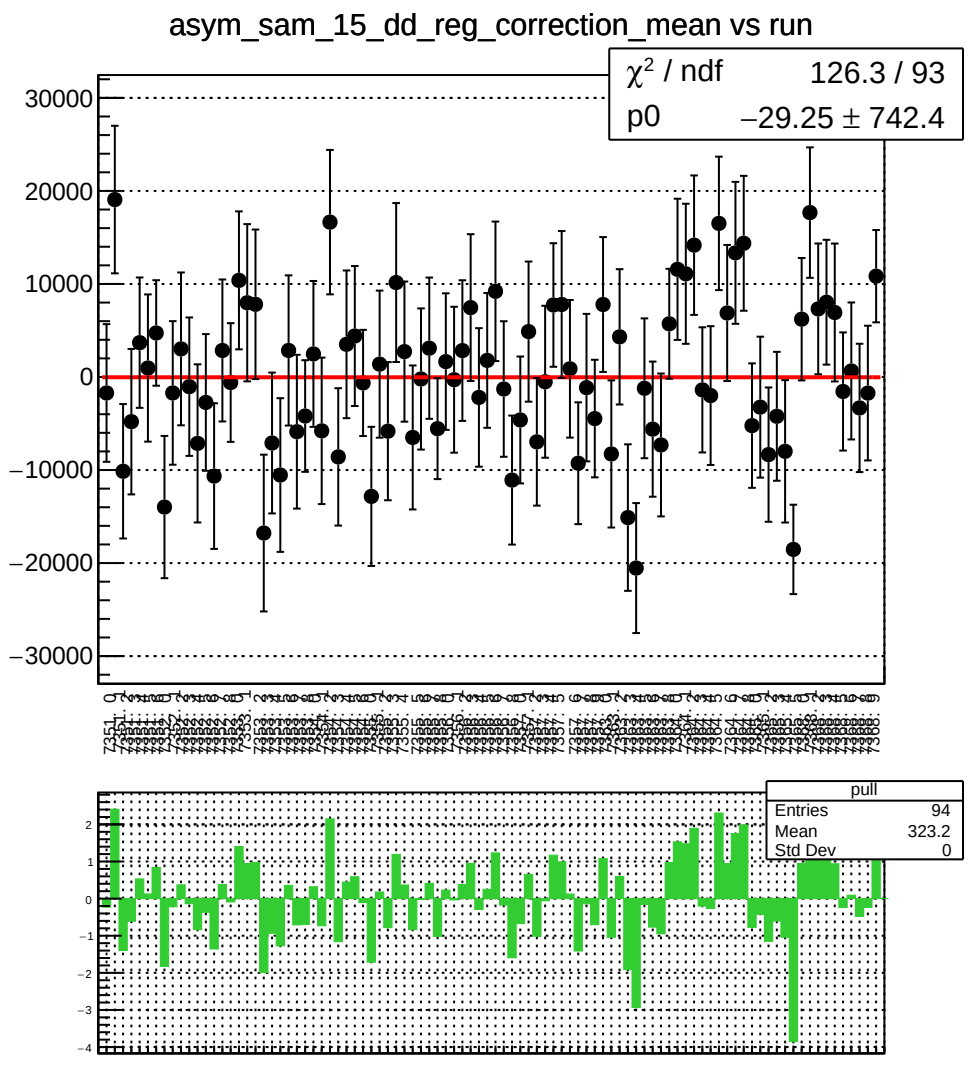

pull1D
Entries 94
Mean 0.006271
Std Dev 1.201

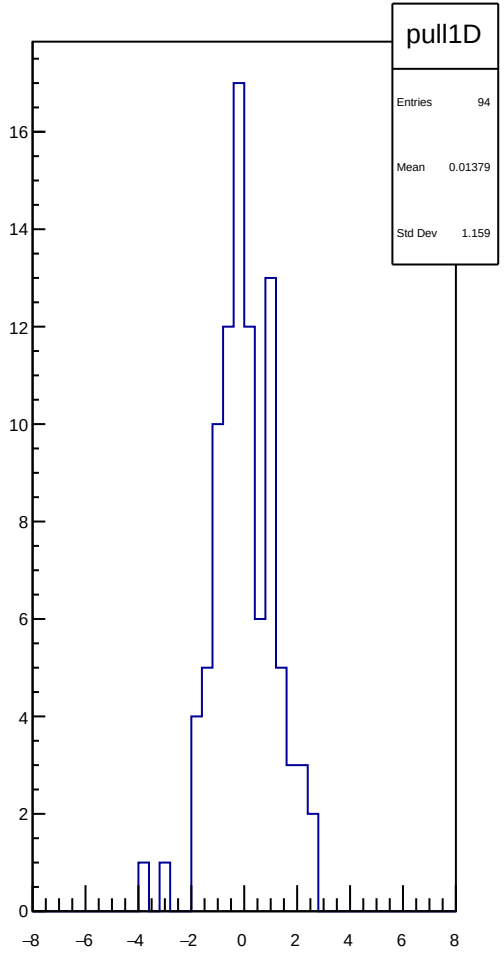

asym_sam_48_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.454e+05 / 93
p0 1.445e−11 ± 1.281e−14
70
60
50
40
30
20
10

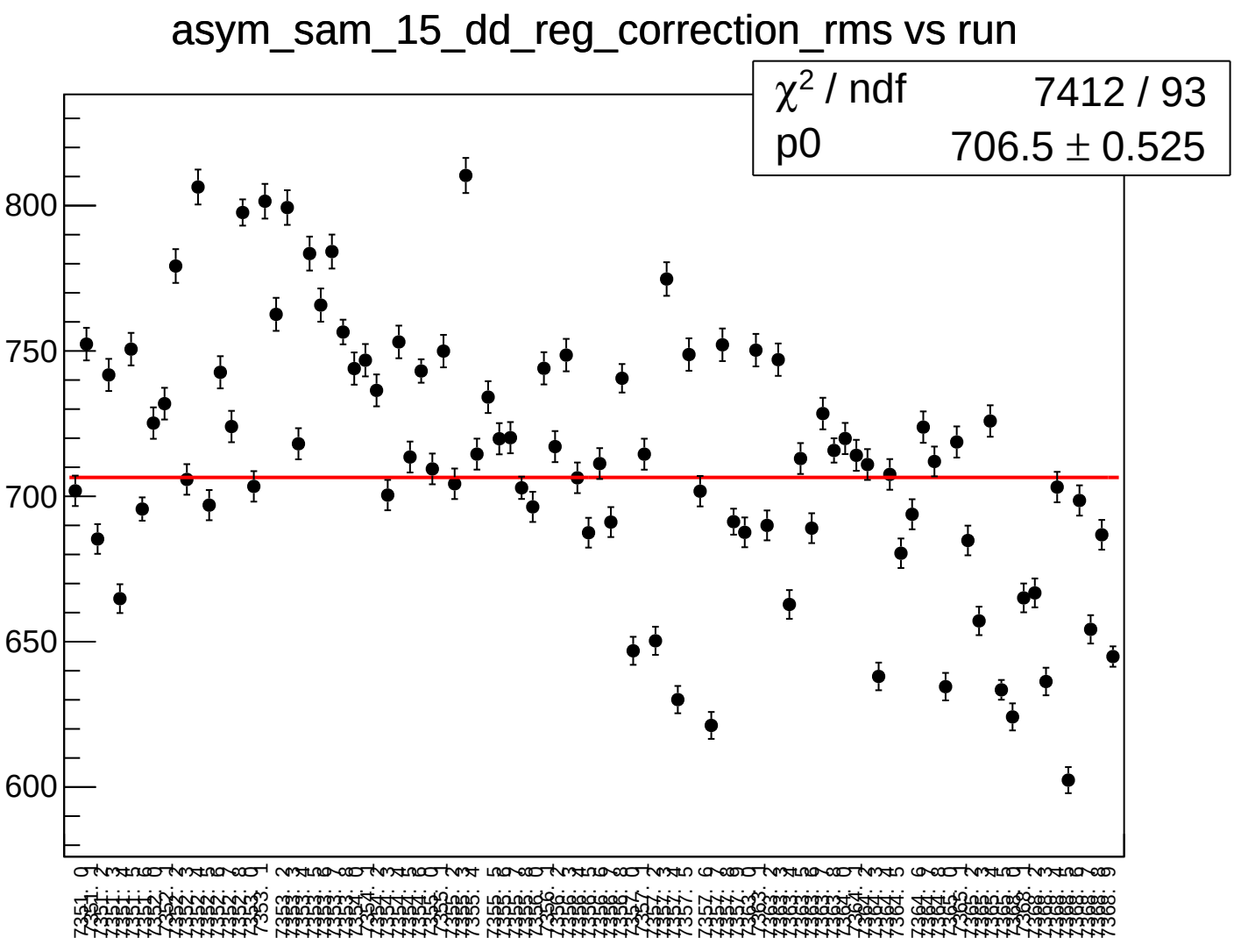

reg_asym_sam_15_dd_mean vs run
χ² / ndf 117.5 / 93
p0 166.4 ± 126.5
4000
2000
0
−2000
−4000
pull
Entries 94
Mean −1448
Std Dev 0
2
1
0
−1
−2
−3

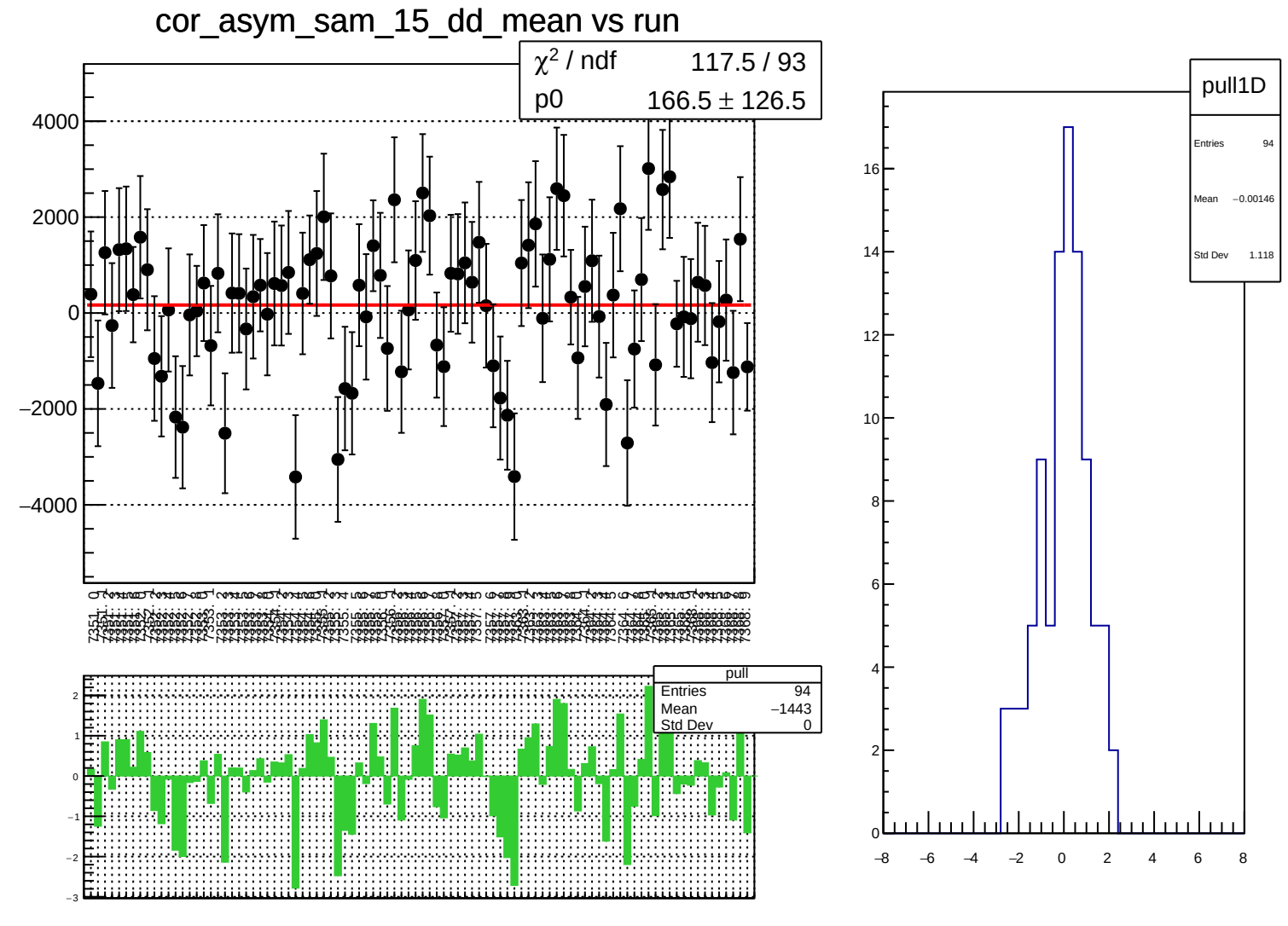

pull1D
Entries 94
Mean −0.001456
Std Dev 1.118
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

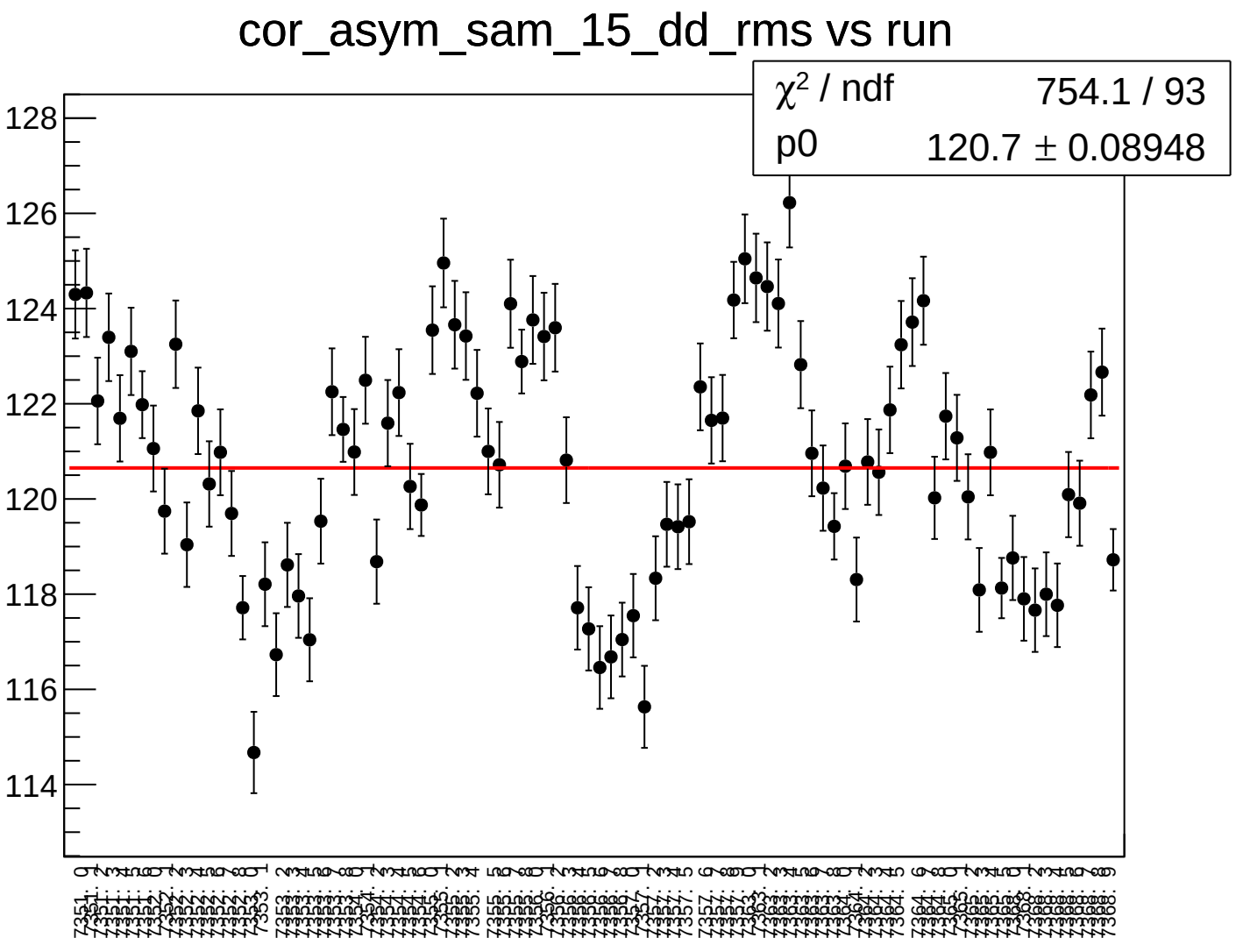

reg_asym_sam_15_dd_rms vs run
χ² / ndf 754.1 / 93
p0 120.7 ± 0.08948
128
126
124
122
120
118
116
114

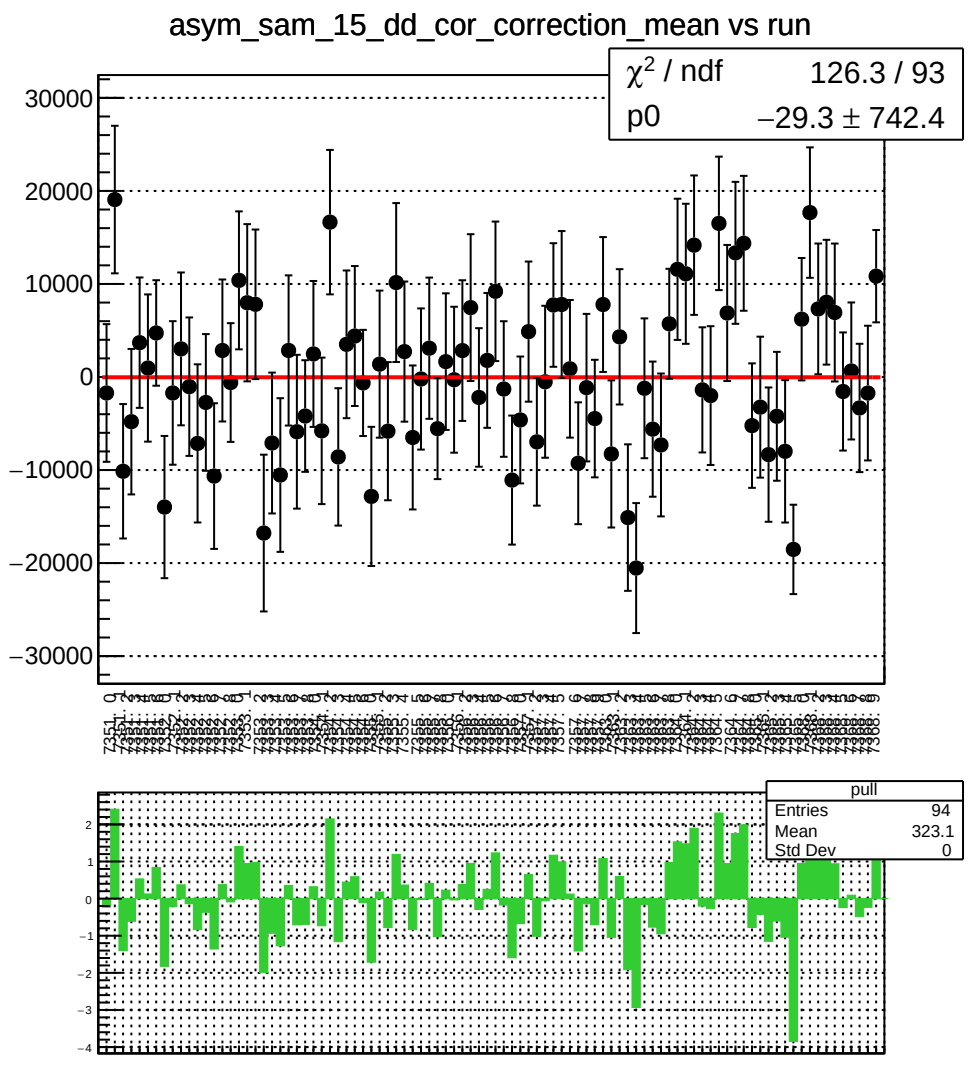

asym_sam_15_dd_reg_correction_mean vs run
χ² / ndf 126.3 / 93
p0 −29.25 ± 742.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean 323.2
Std Dev 0
2
1
0
−1
−2
−3
−4

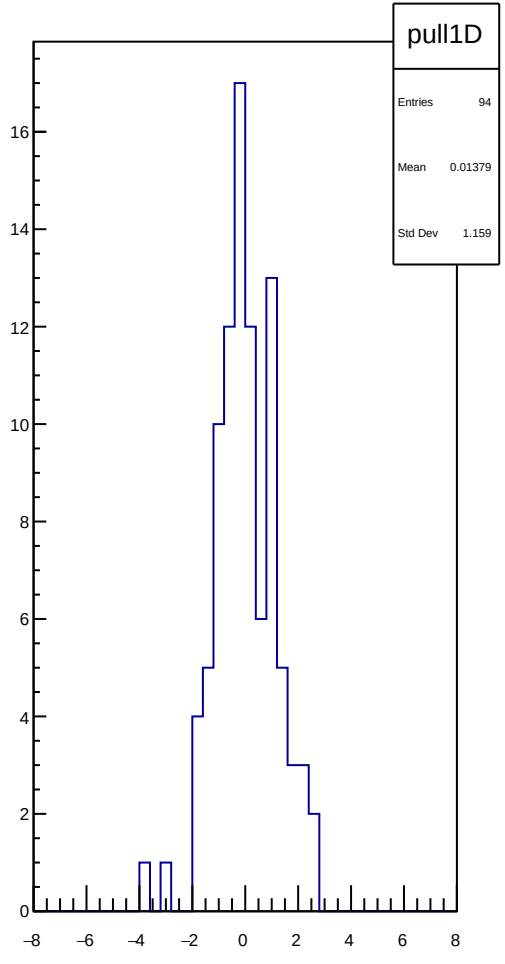

pull1D
Entries 94
Mean 0.01379
Std Dev 1.159
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

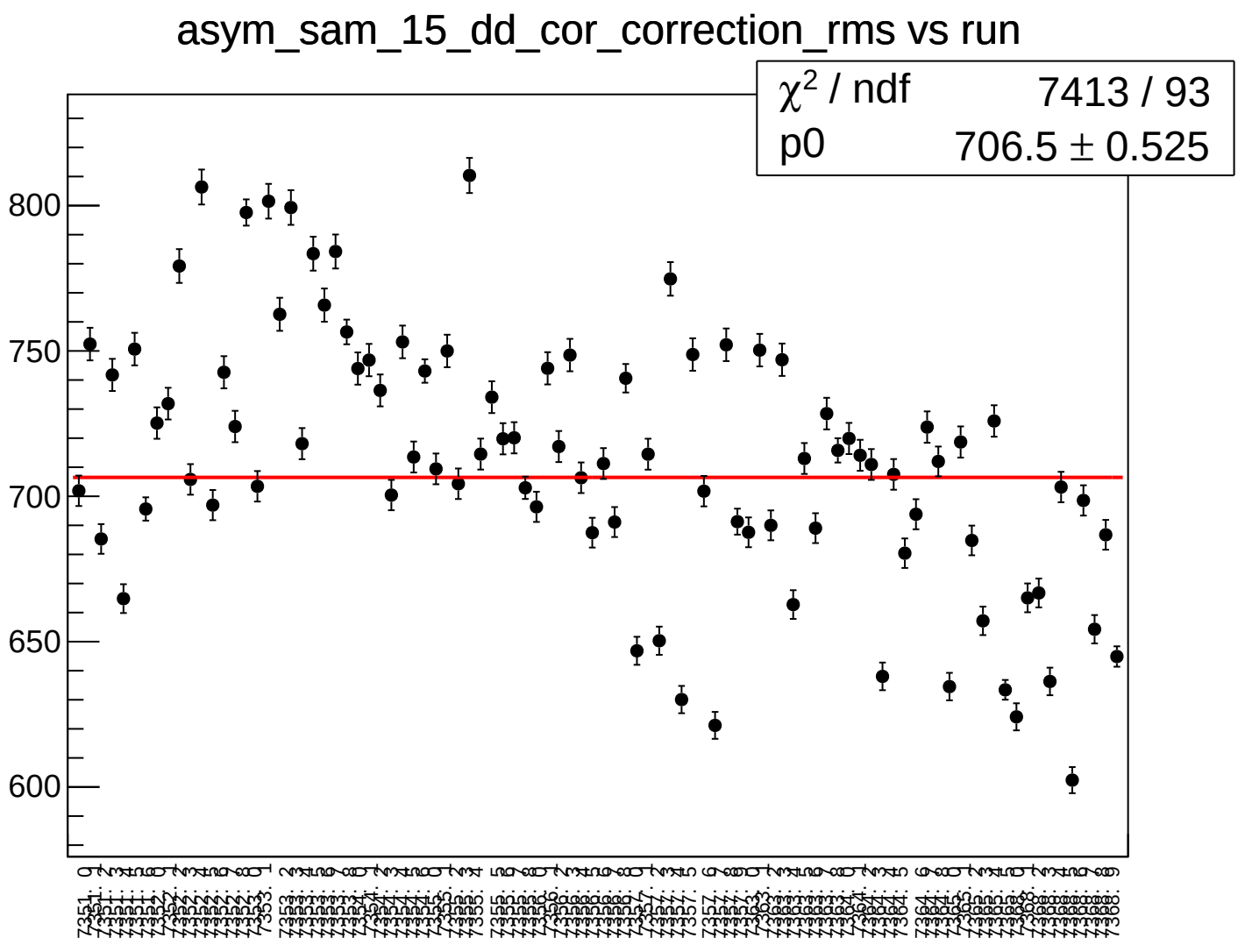

asym_sam_15_dd_reg_correction_rms vs run
χ² / ndf 7412 / 93
p0 706.5 ± 0.525
800
750
700
650
600

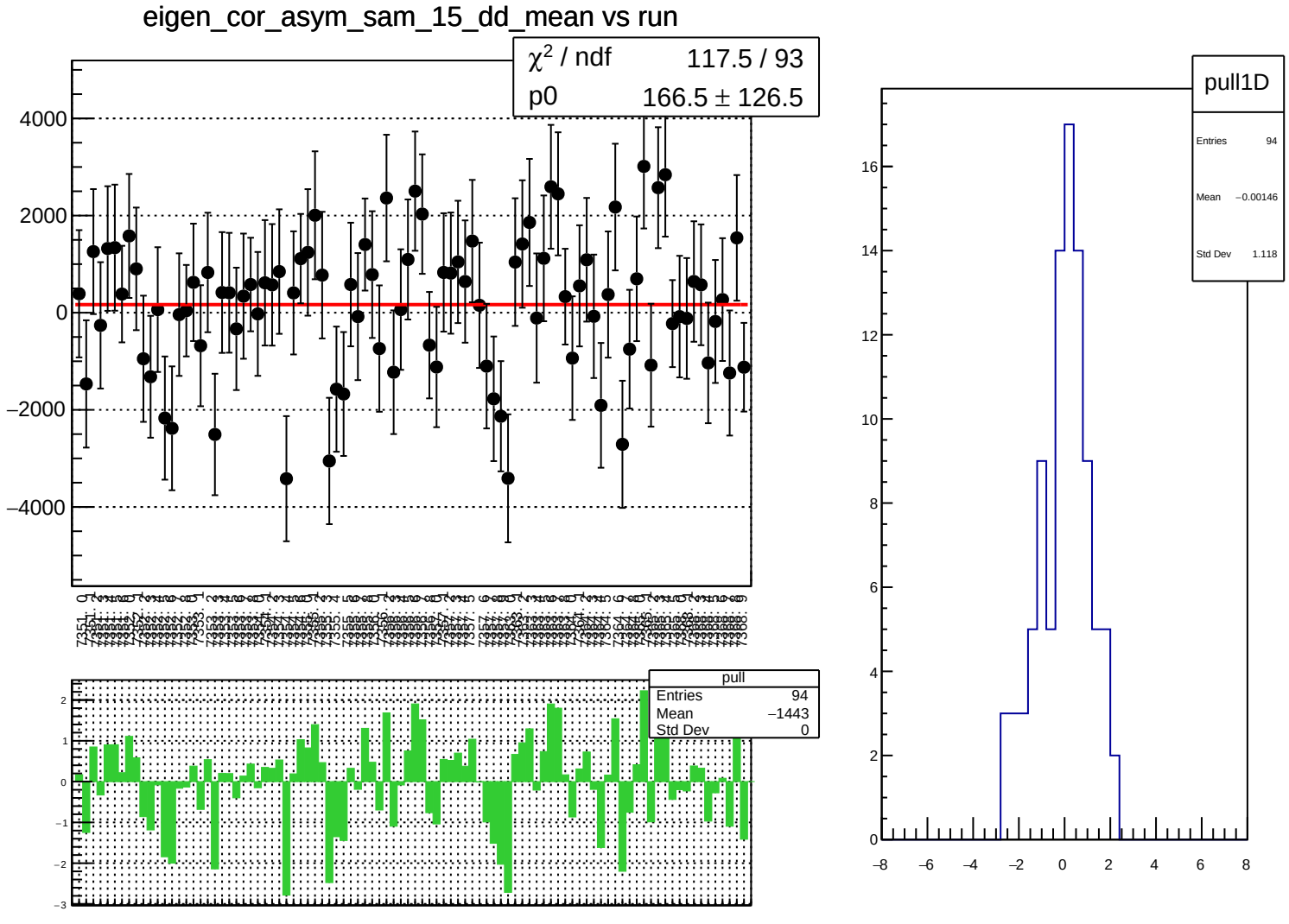

cor_asym_sam_15_dd_mean vs run
χ² / ndf 117.5 / 93
p0 166.5 ± 126.5
4000
2000
0
−2000
−4000
pull
Entries 94
Mean −1443
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.00146
Std Dev 1.118
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

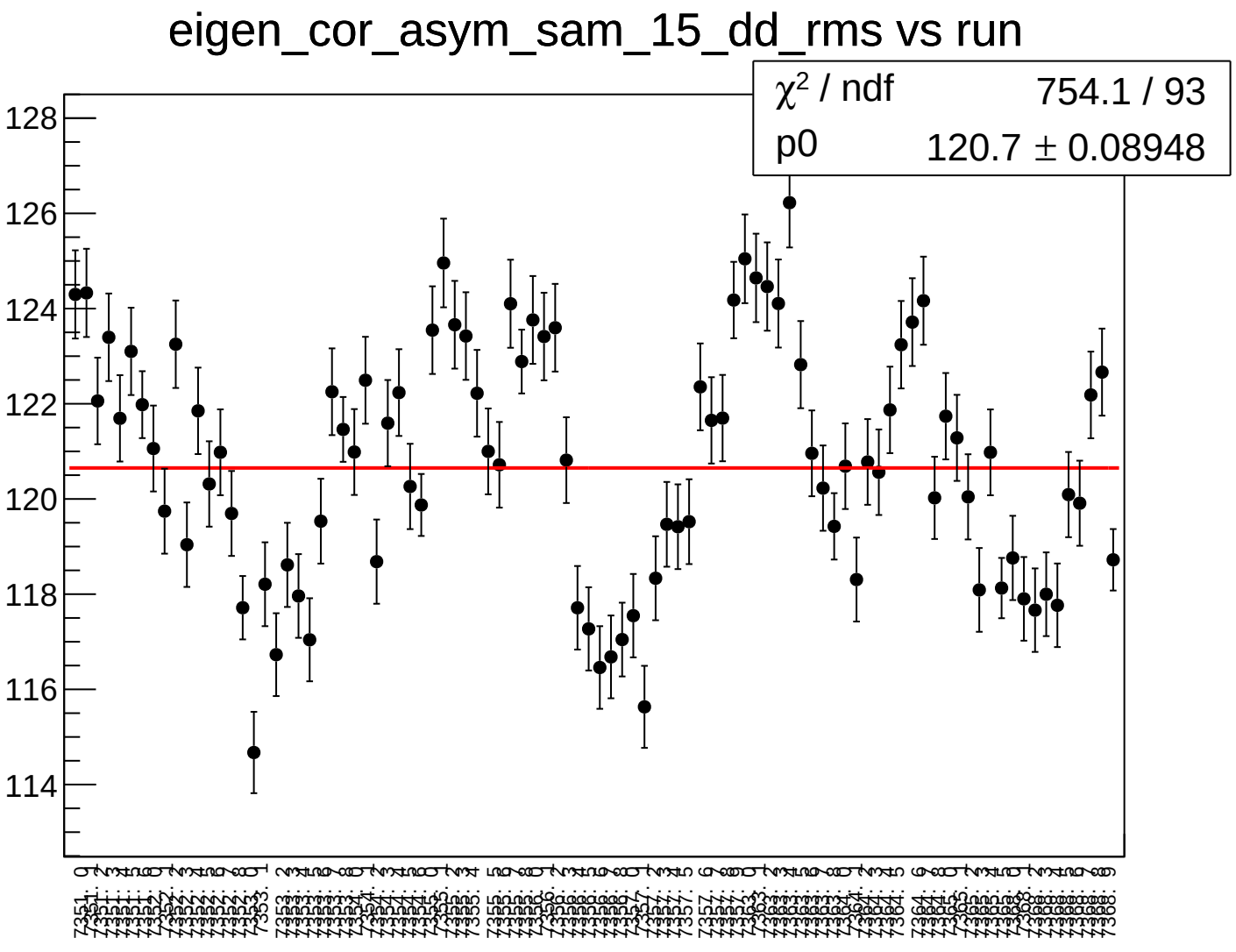

cor_asym_sam_15_dd_rms vs run
χ^2 / ndf 754.1 / 93
p0 120.7 ± 0.08948
128
126
124
122
120
118
116
114

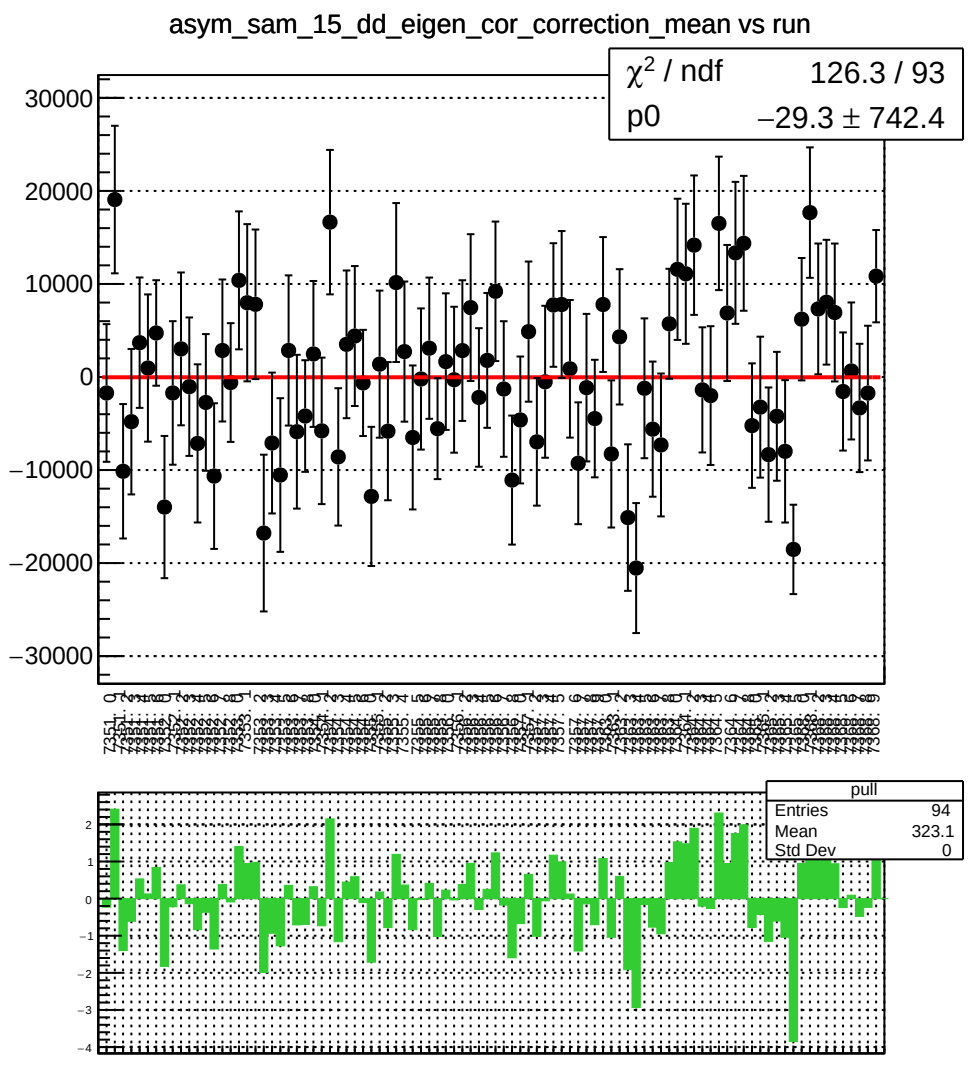

asym_sam_15_dd_cor_correction_mean vs run
χ² / ndf 126.3 / 93
p0 −29.3 ± 742.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean 323.1
Std Dev 0
2
1
0
−1
−2
−3
−4

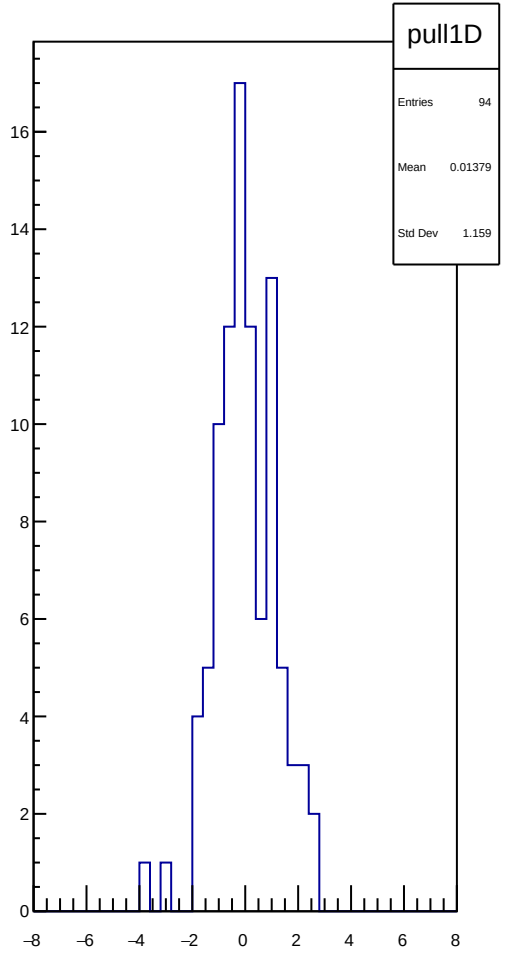

pull1D
Entries 94
Mean 0.01379
Std Dev 1.159
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

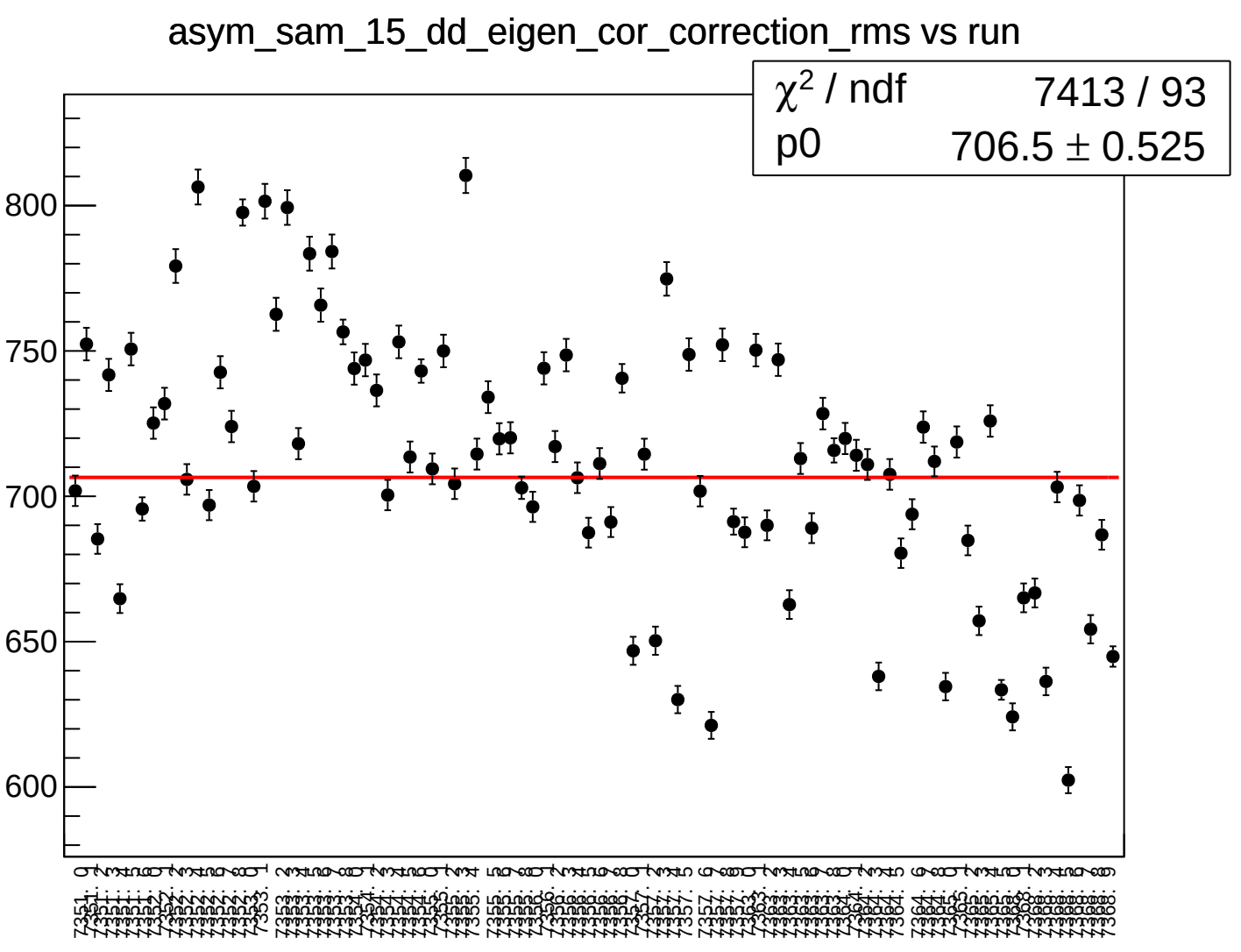

asym_sam_15_dd_cor_correction_rms vs run
χ² / ndf 7413 / 93
p0 706.5 ± 0.525
800
750
700
650
600

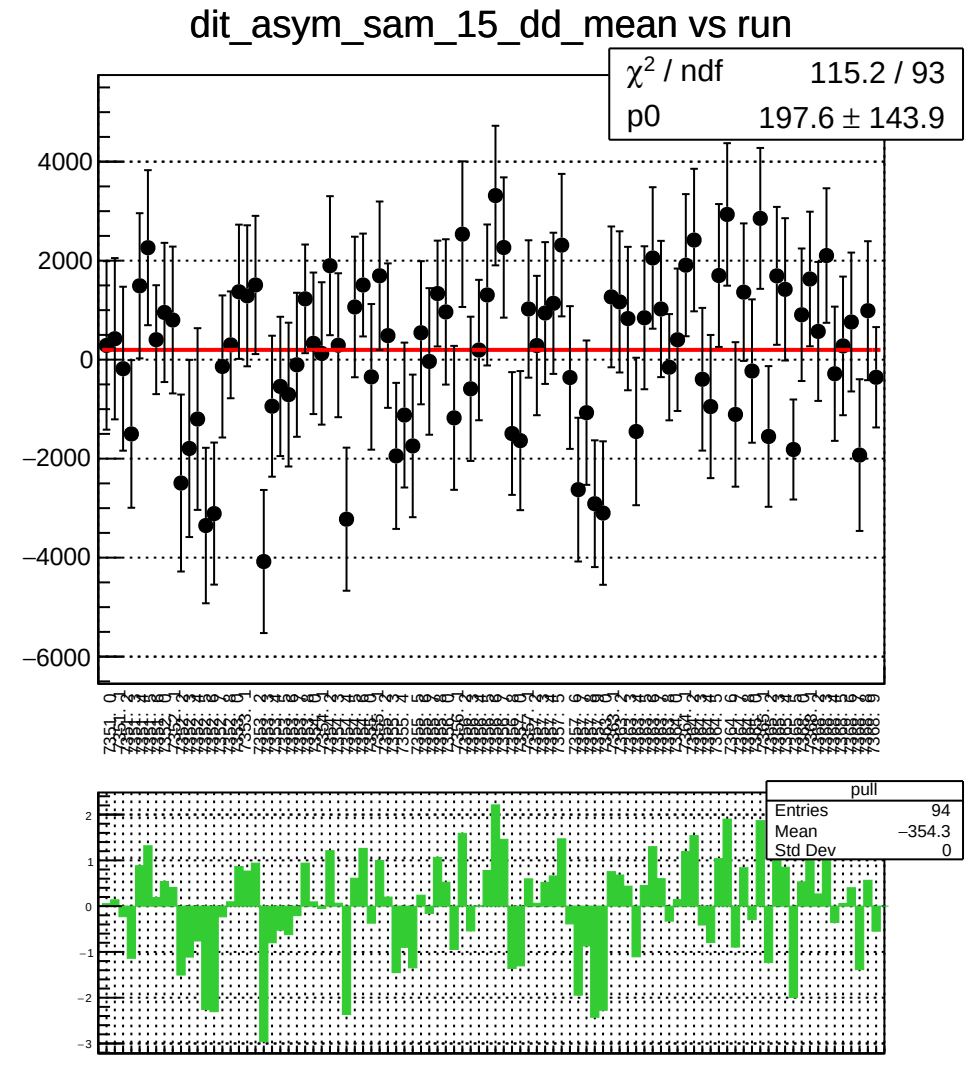

eigen_cor_asym_sam_15_dd_mean vs run
χ² / ndf 117.5 / 93
p0 166.5 ± 126.5
4000
2000
0
−2000
−4000
pull
Entries 94
Mean −1443
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.00146
Std Dev 1.118
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

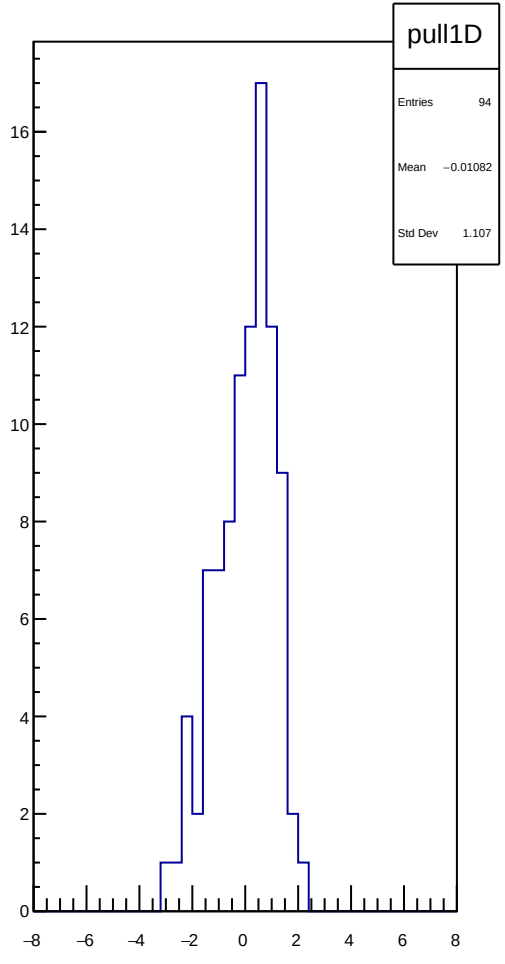

eigen_cor_asym_sam_15_dd_rms vs run
χ² / ndf 754.1 / 93
p0 120.7 ± 0.08948
128
126
124
122
120
118
116
114

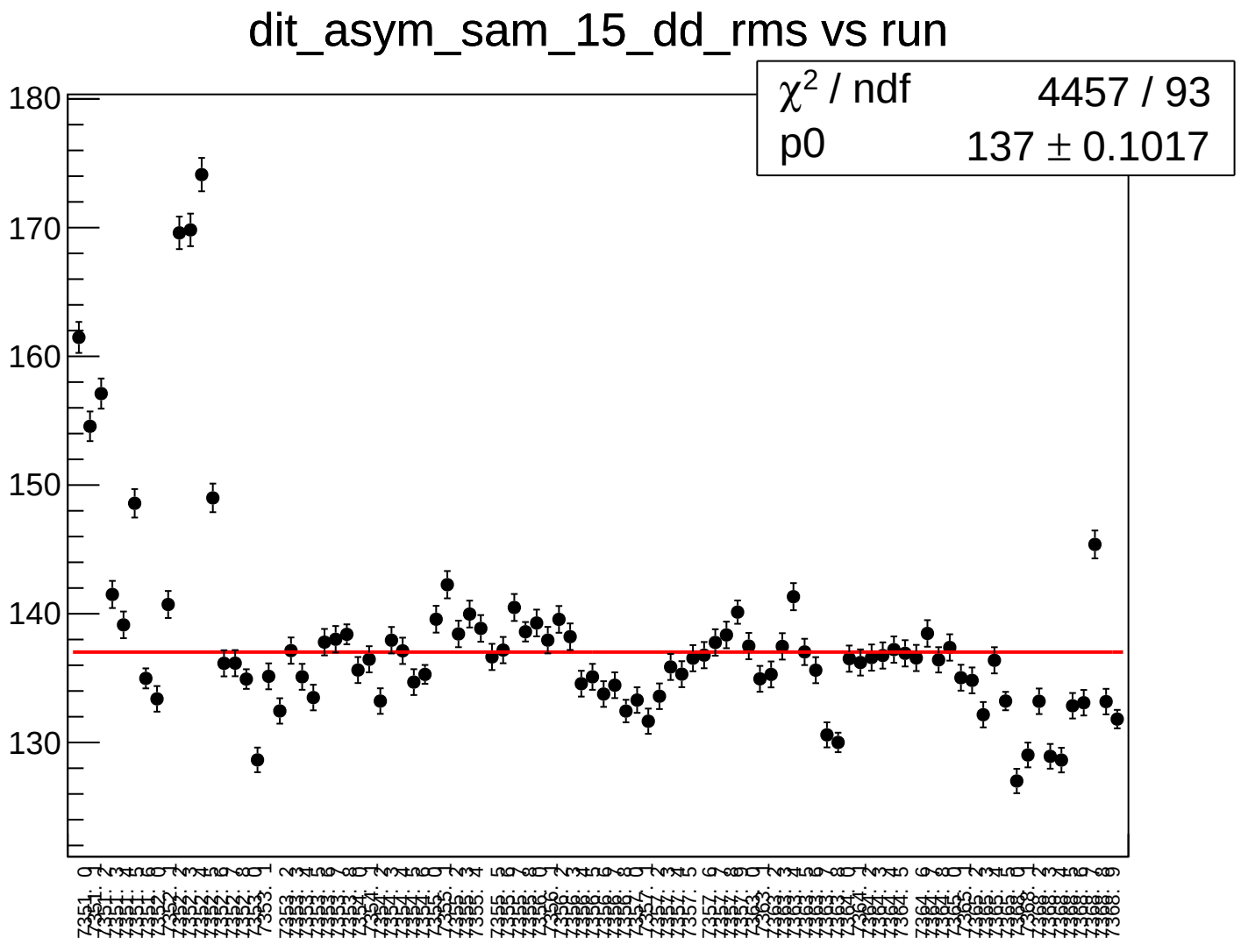

asym_sam_15_dd_eigen_cor_correction_mean vs run
χ² / ndf 126.3 / 93
p0 −29.3 ± 742.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean 323.1
Std Dev 0
2
1
0
−1
−2
−3
−4

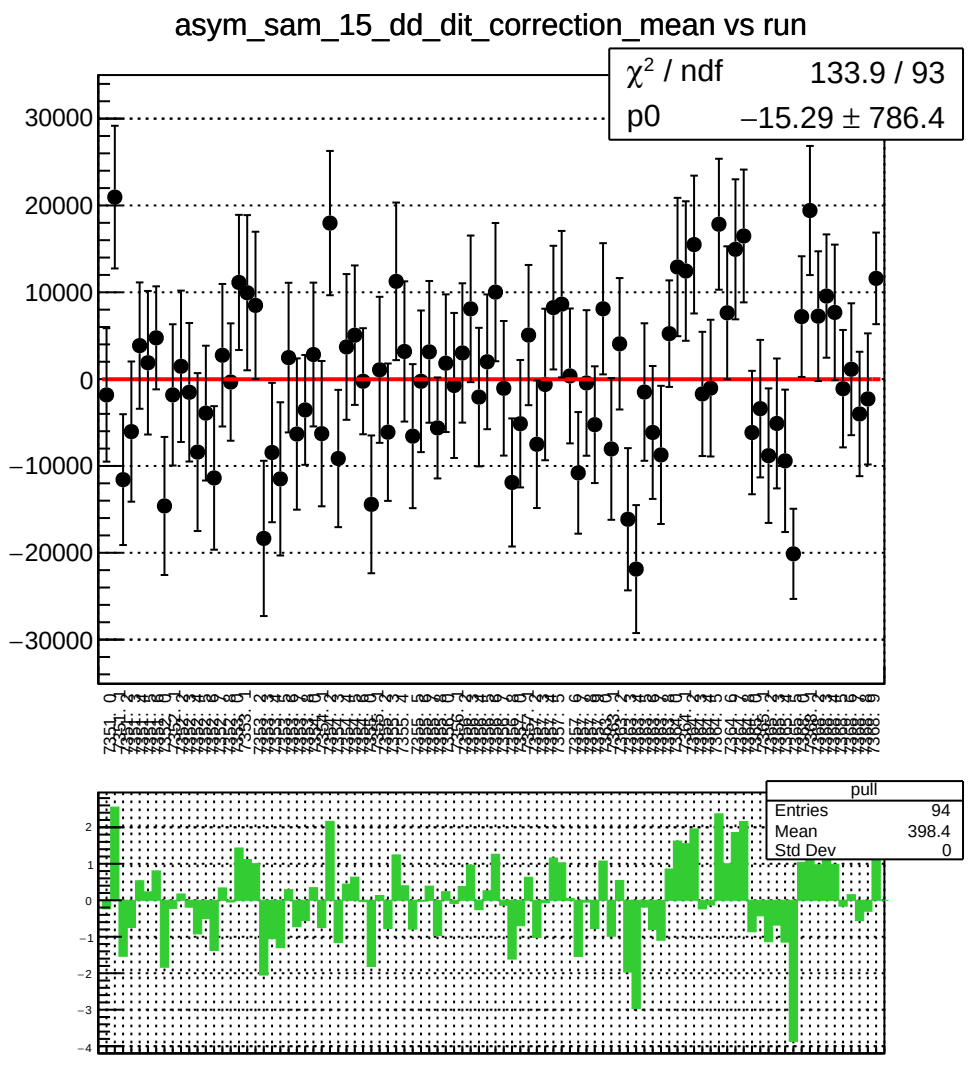

pull1D
Entries 94
Mean 0.01379
Std Dev 1.159
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

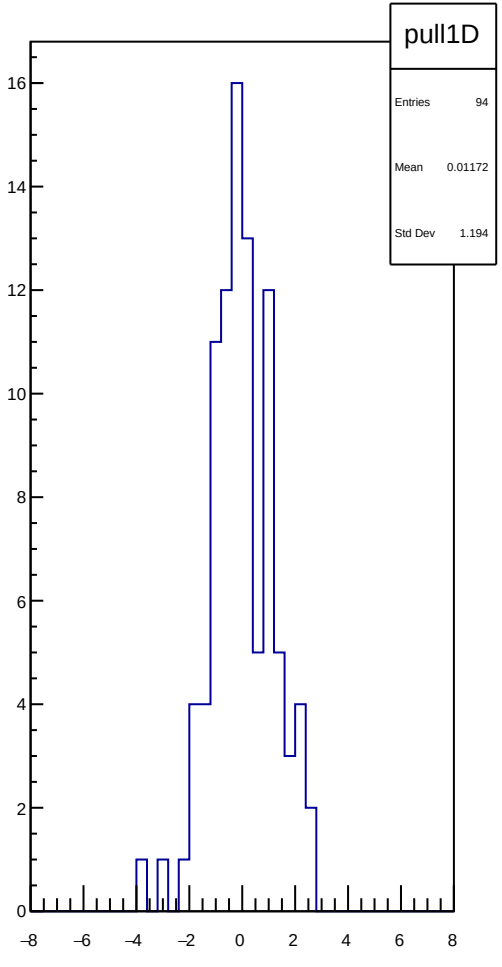

asym_sam_15_dd_eigen_cor_correction_rms vs run
χ² / ndf 7413 / 93
p0 706.5 ± 0.525
800
750
700
650
600

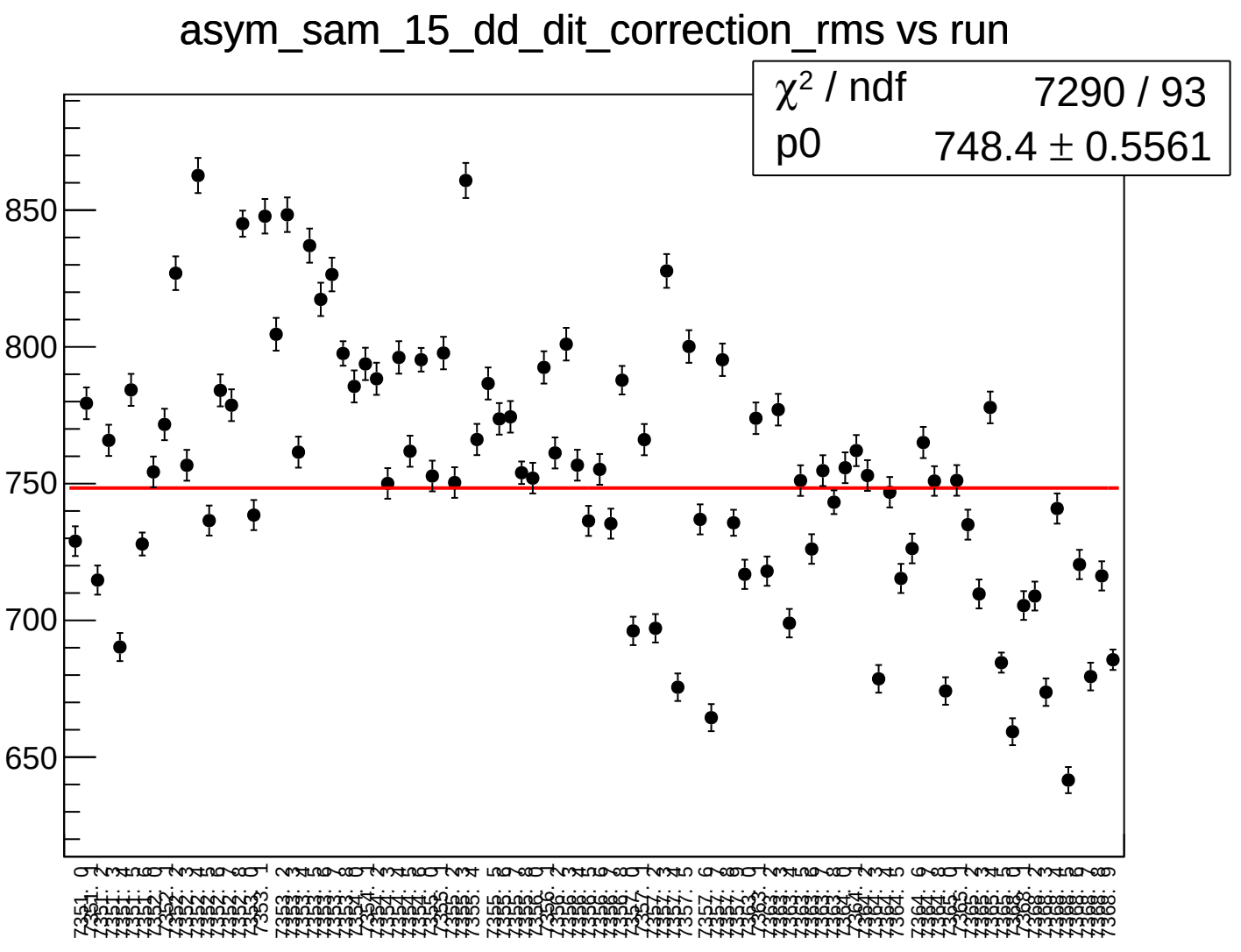

dit_asym_sam_15_dd_mean vs run
χ² / ndf 115.2 / 93
p0 197.6 ± 143.9
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean −354.3
Std Dev 0
2
1
0
−1
−2
−3

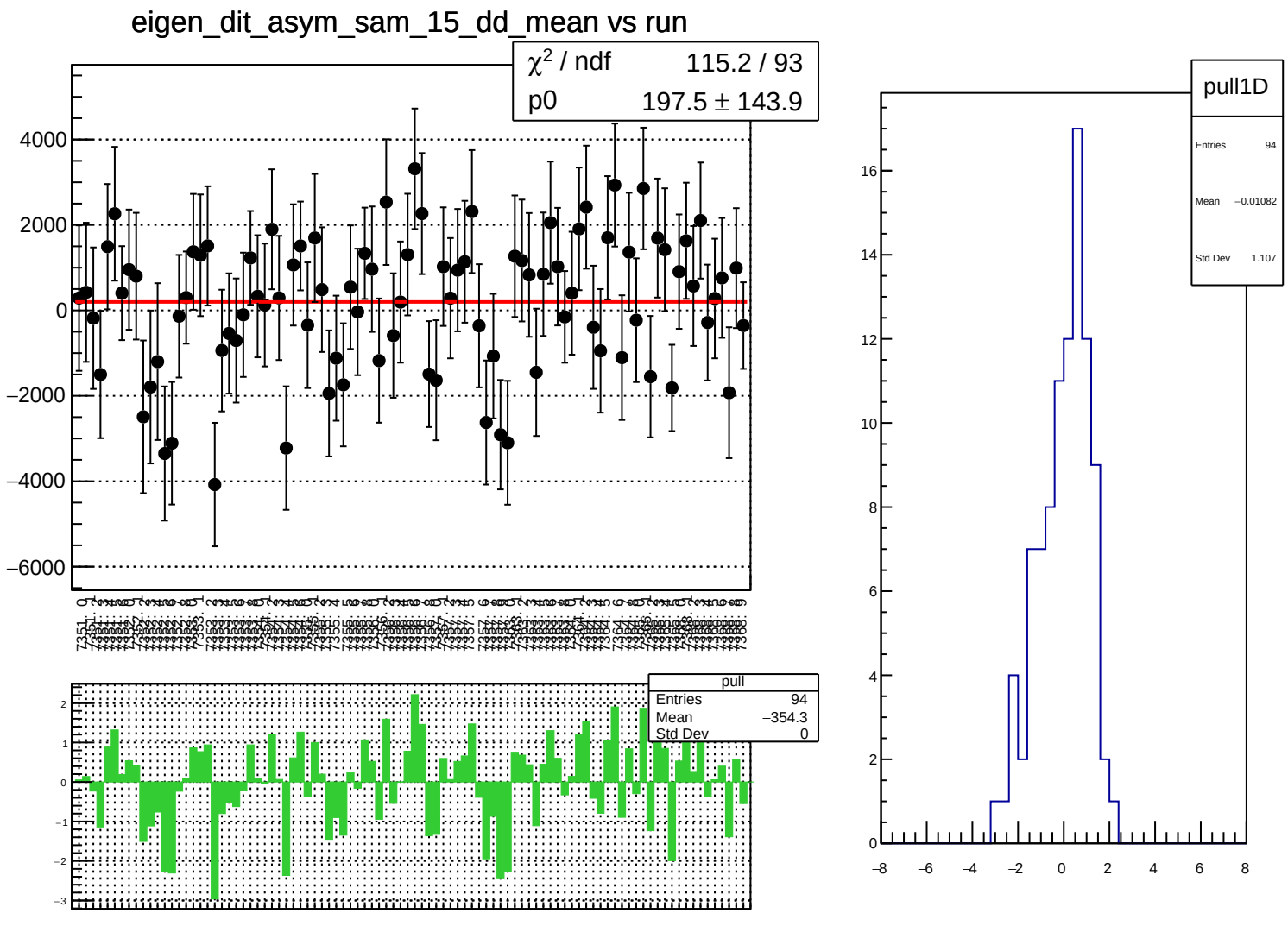

pull1D
Entries 94
Mean −0.01082
Std Dev 1.107
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

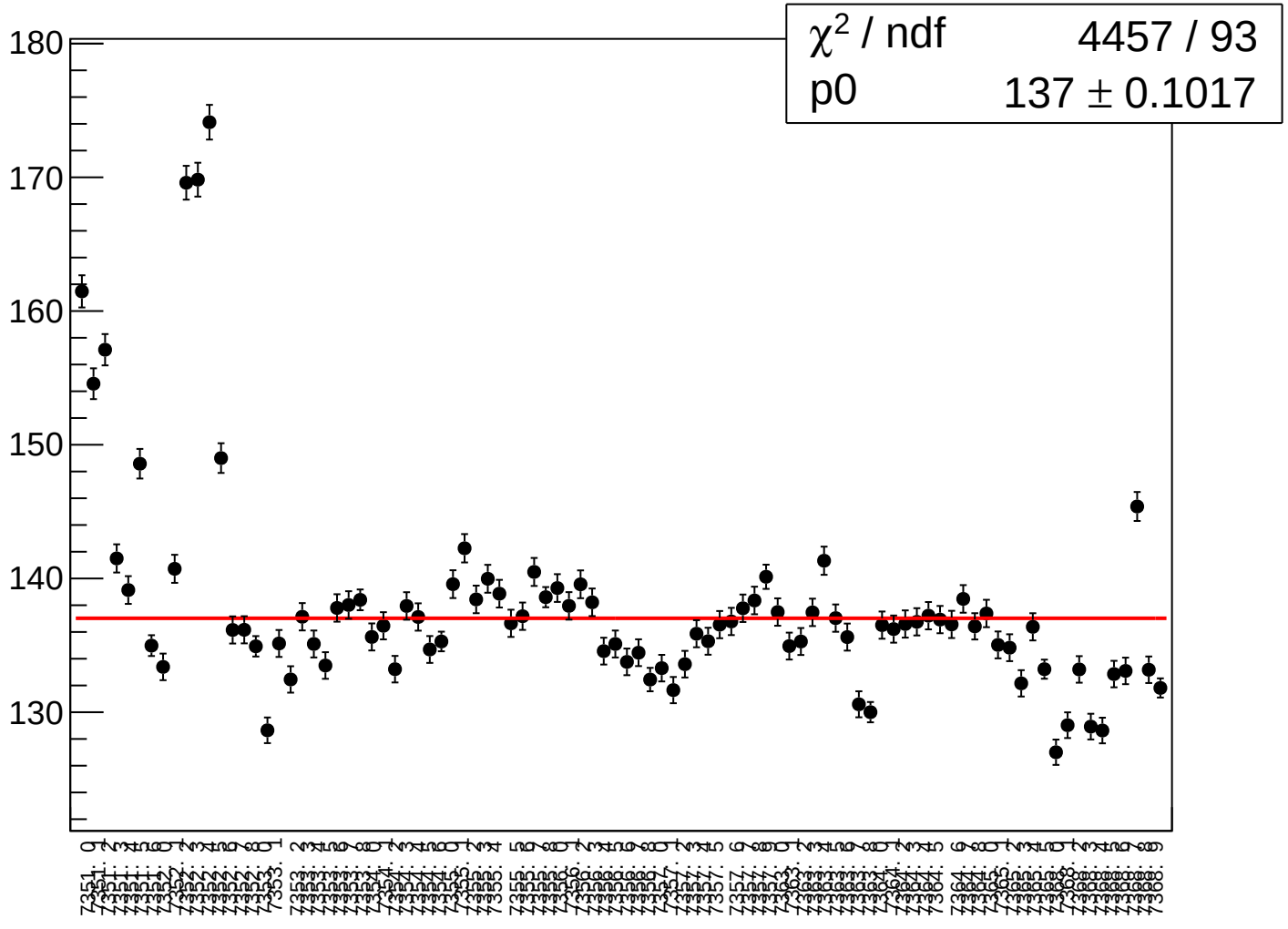

dit_asym_sam_15_dd_rms vs run
χ² / ndf 4457 / 93
p0 137 ± 0.1017
180
170
160
150
140
130

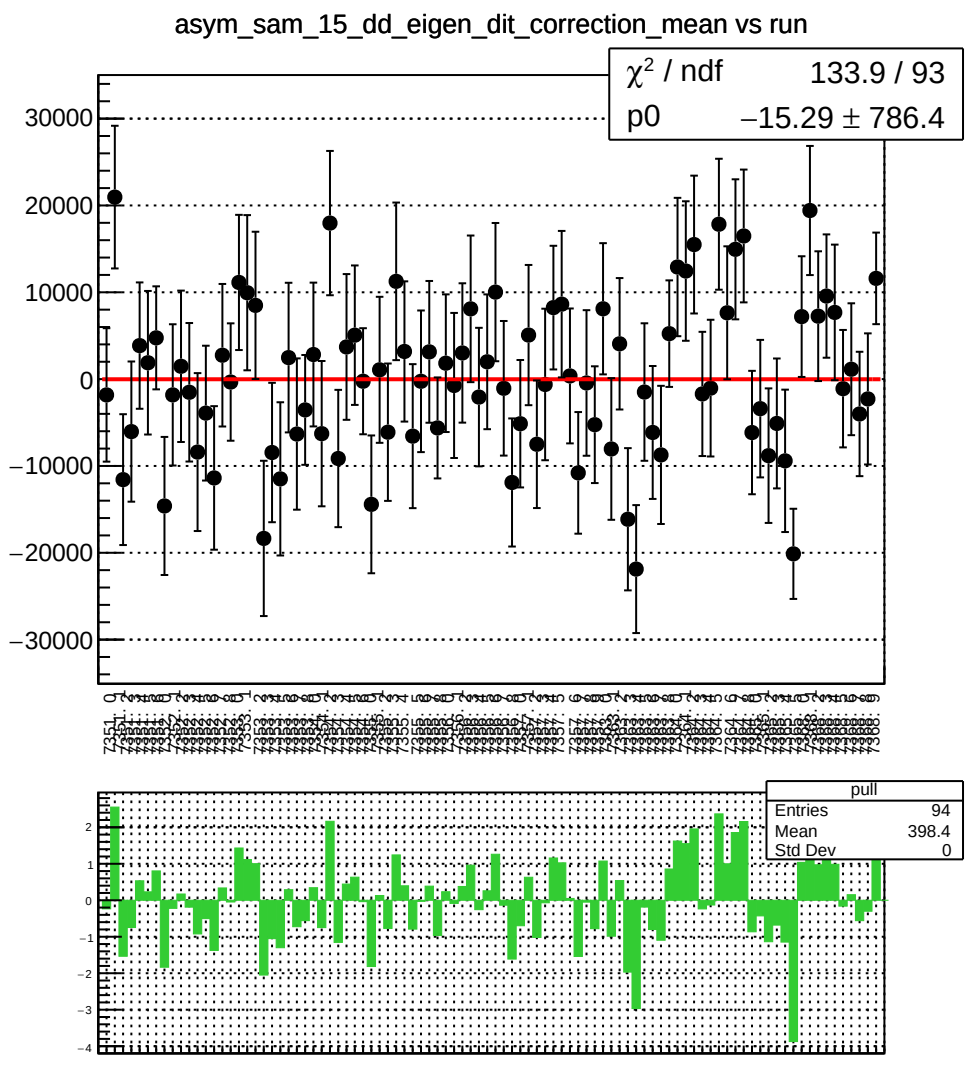

asym_sam_15_dd_dit_correction_mean vs run
χ² / ndf 133.9 / 93
p0 −15.29 ± 786.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean 398.4
Std Dev 0
2
1
0
−1
−2
−3
−4

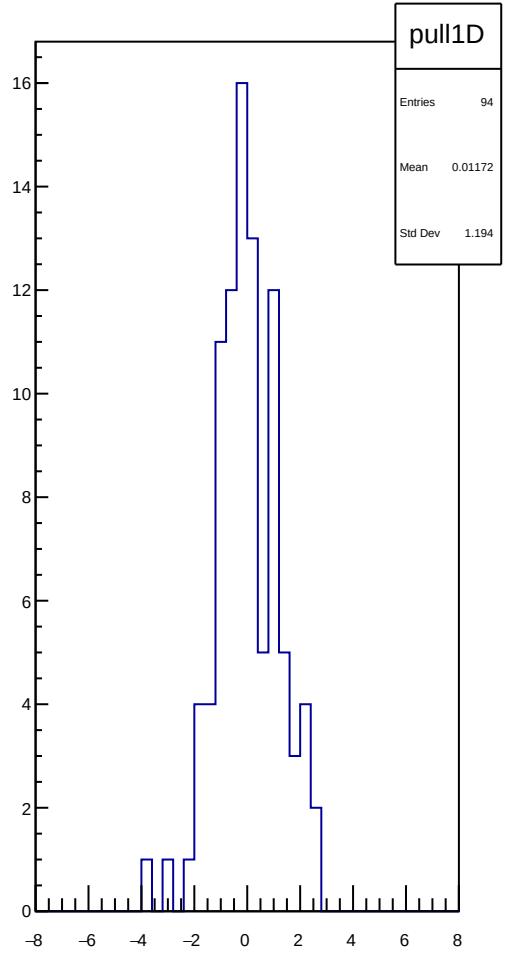

pull1D
Entries 94
Mean 0.01172
Std Dev 1.194
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

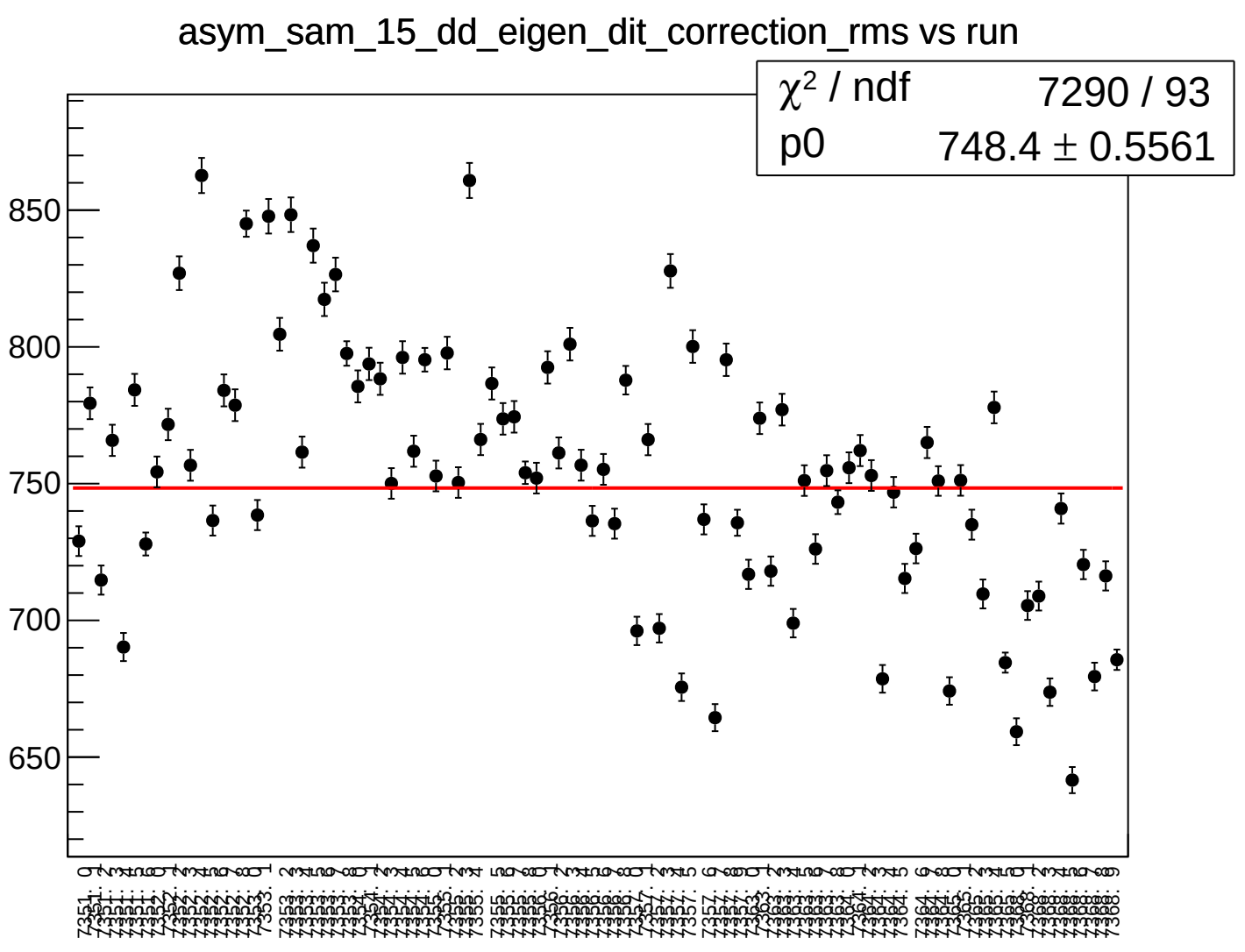

asym_sam_15_dd_dit_correction_rms vs run
χ² / ndf 7290 / 93
p0 748.4 ± 0.5561
850
800
750
700
650

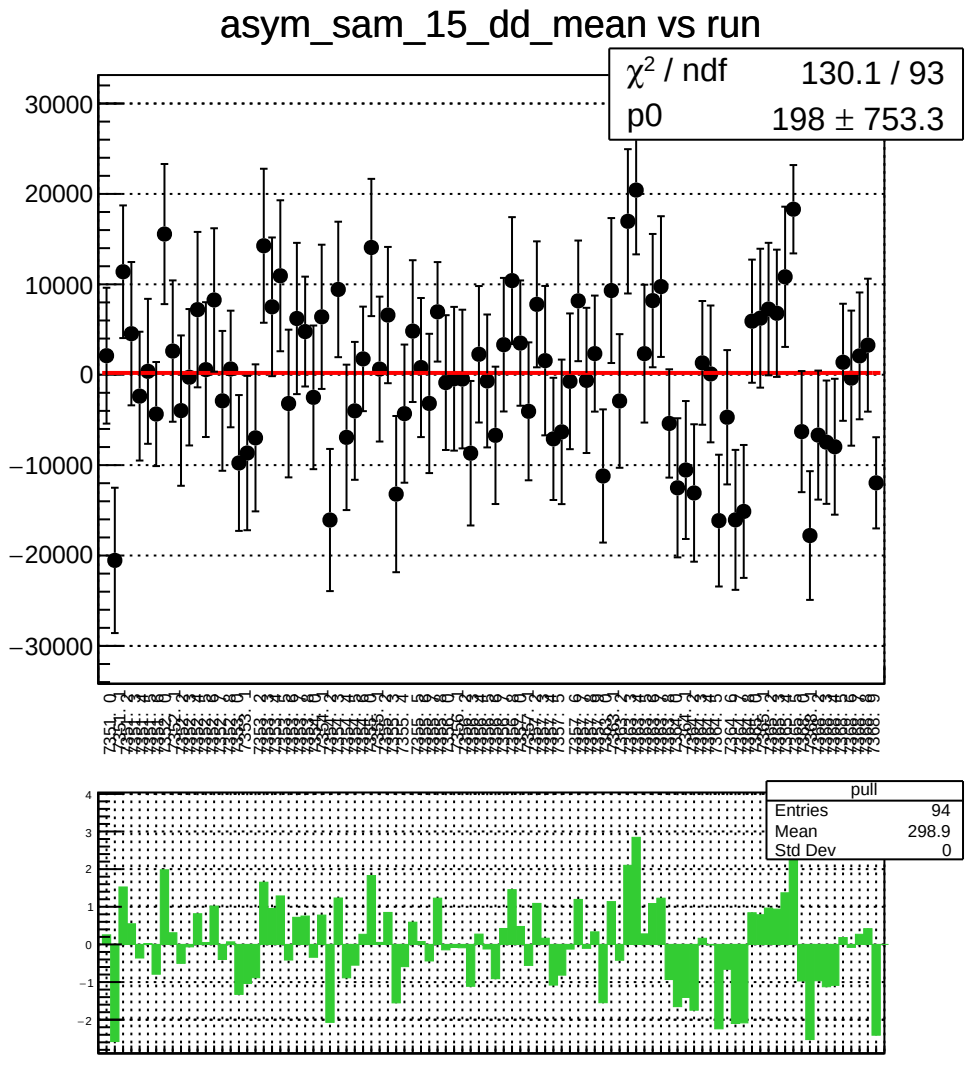

eigen_dit_asym_sam_15_dd_mean vs run
χ² / ndf 115.2 / 93
p0 197.5 ± 143.9
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean −354.3
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.01082
Std Dev 1.107
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

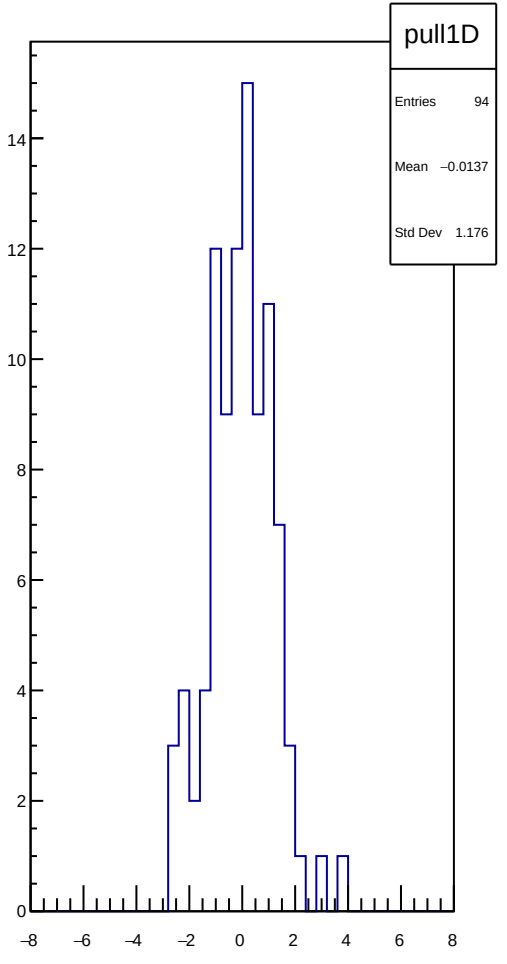

eigen_dit_asym_sam_15_dd_rms vs run
χ^2 / ndf 4457 / 93
p0 137 ± 0.1017
180
170
160
150
140
130

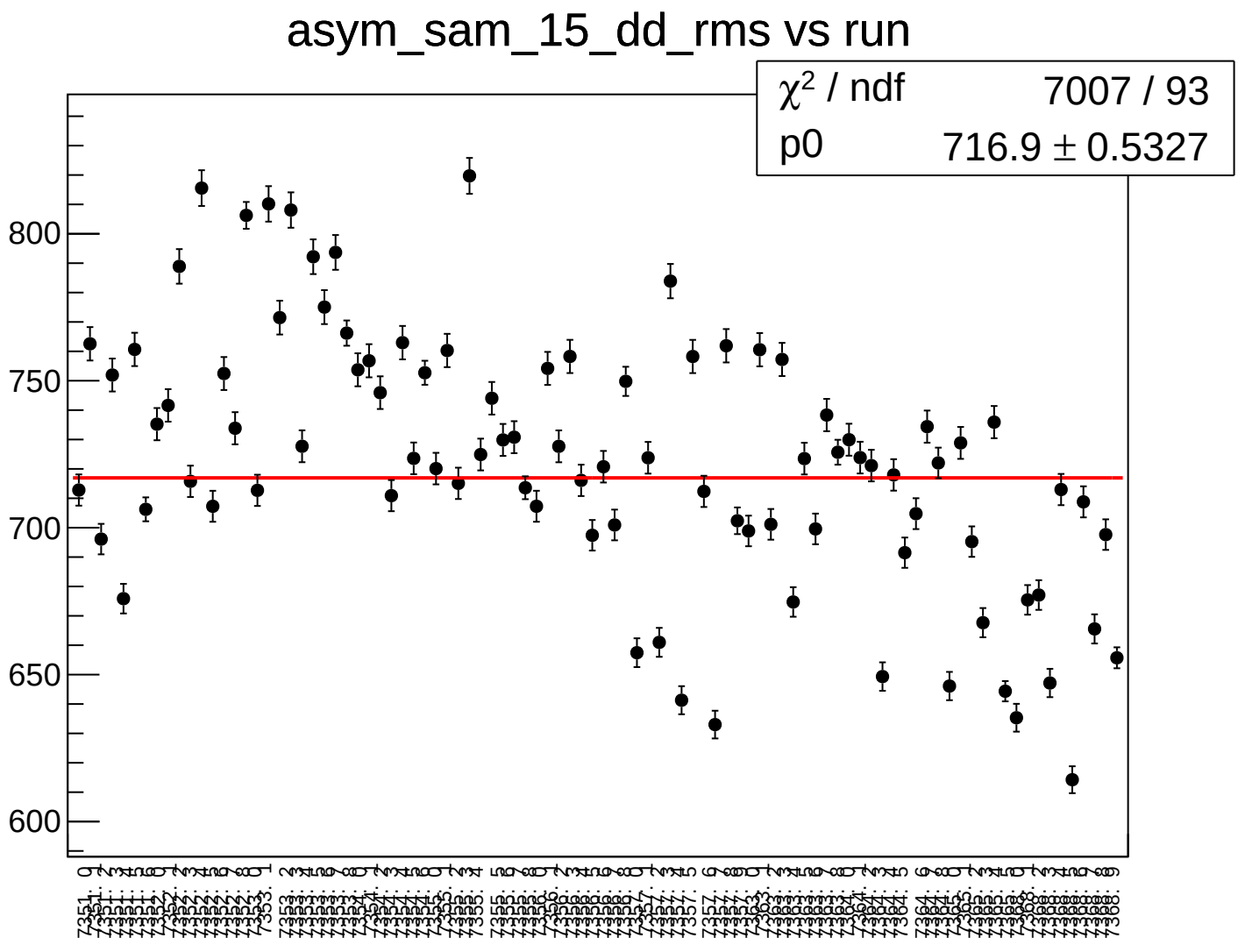

asym_sam_15_dd_eigen_dit_correction_mean vs run
χ² / ndf 133.9 / 93
p0 −15.29 ± 786.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean 398.4
Std Dev 0
2
1
0
−1
−2
−3
−4

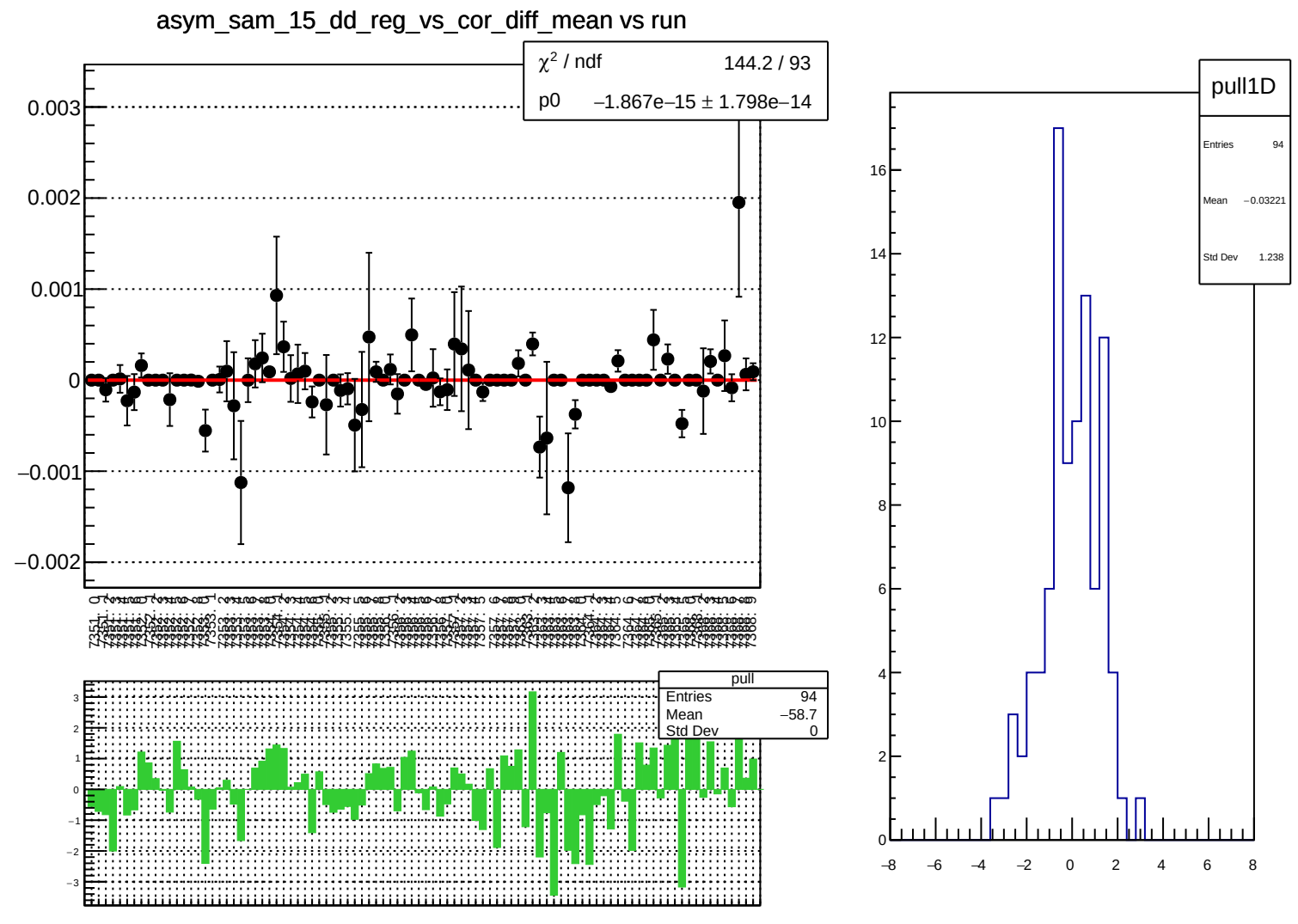

pull1D
Entries 94
Mean 0.01172
Std Dev 1.194
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

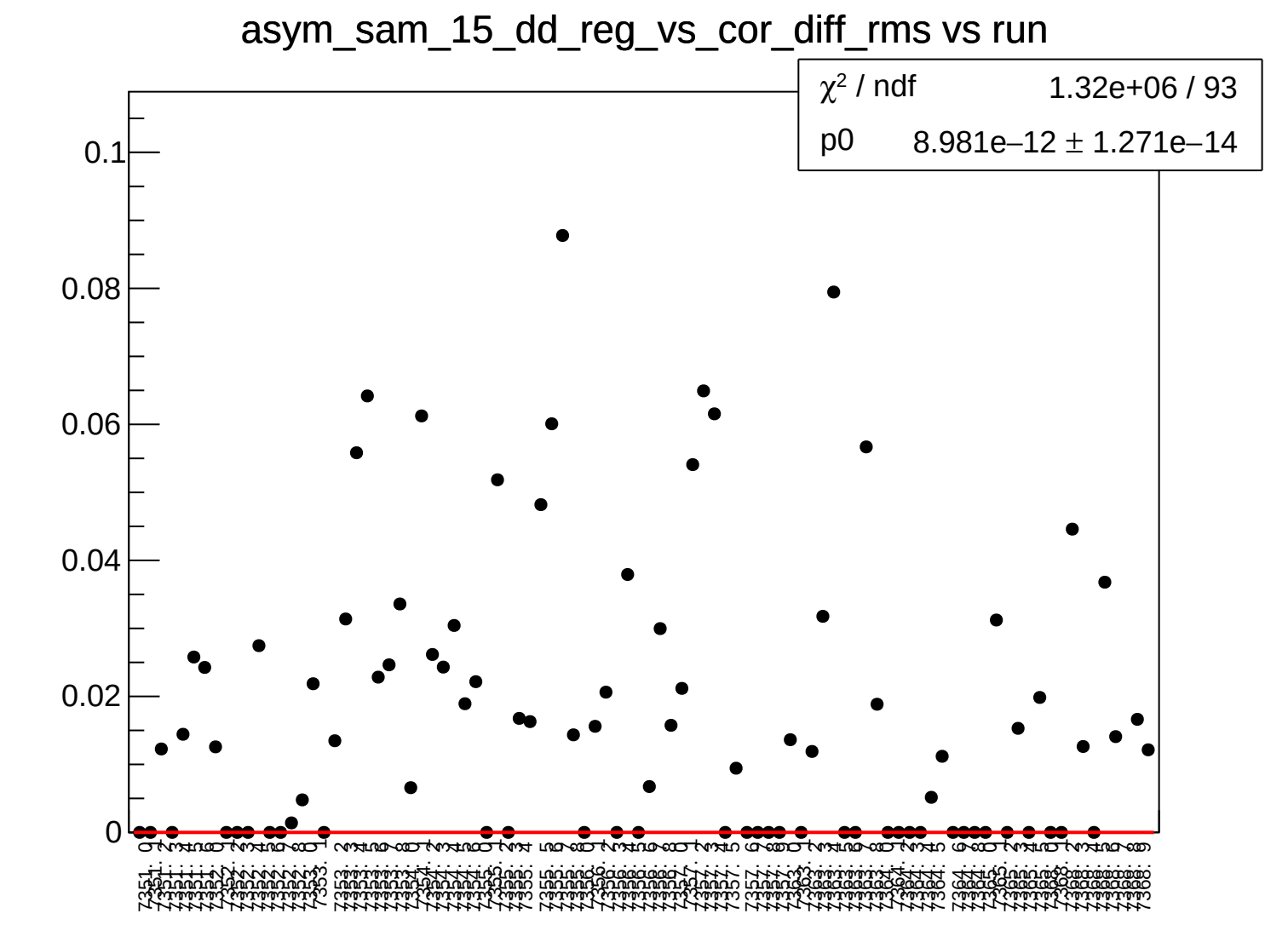

asym_sam_15_dd_eigen_dit_correction_rms vs run
χ² / ndf 7290 / 93
p0 748.4 ± 0.5561
850
800
750
700
650

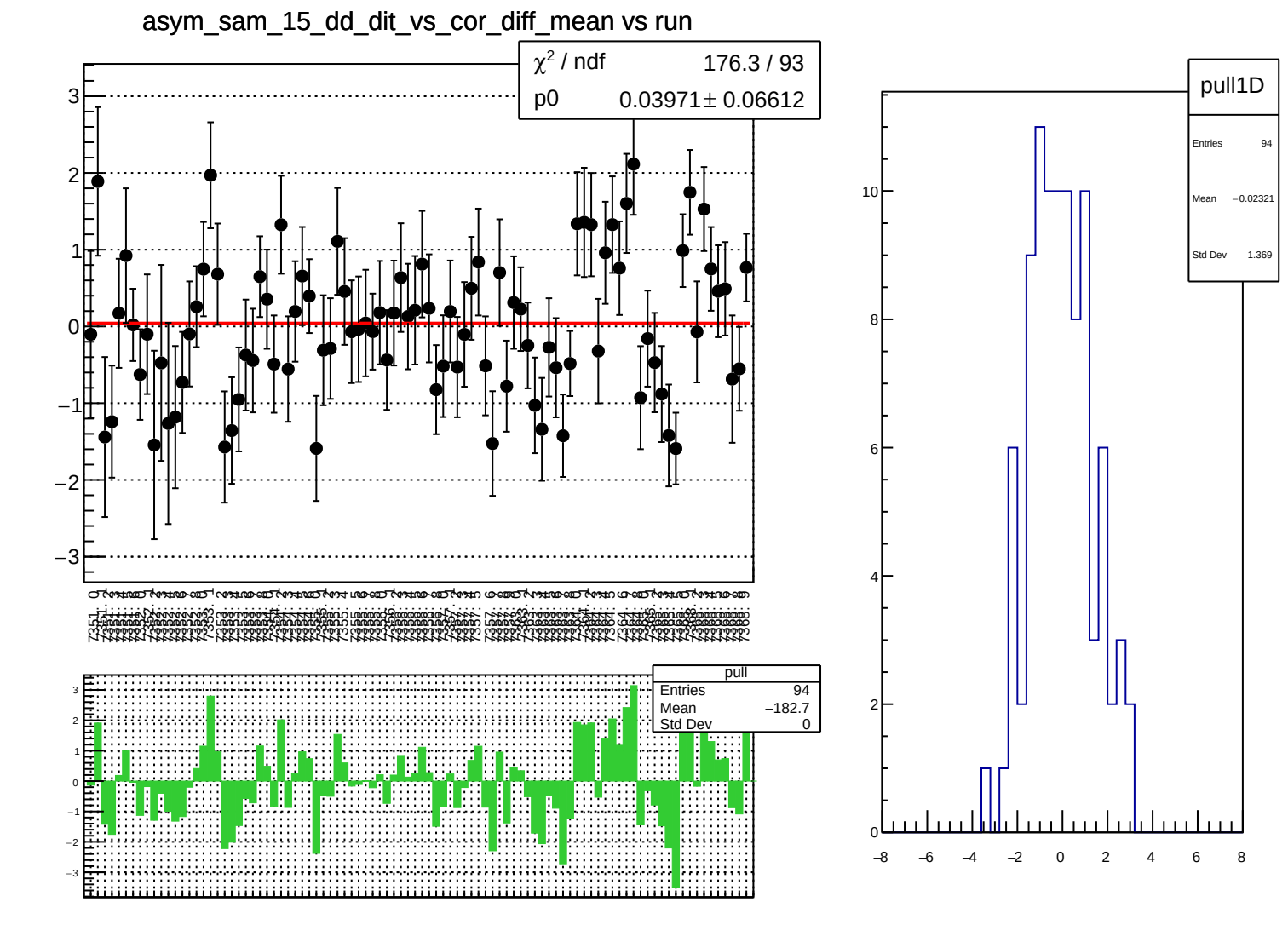

asym_sam_15_dd_mean vs run
χ² / ndf 130.1 / 93
p0 198 ± 753.3
pull
Entries 94
Mean 298.9
Std Dev 0

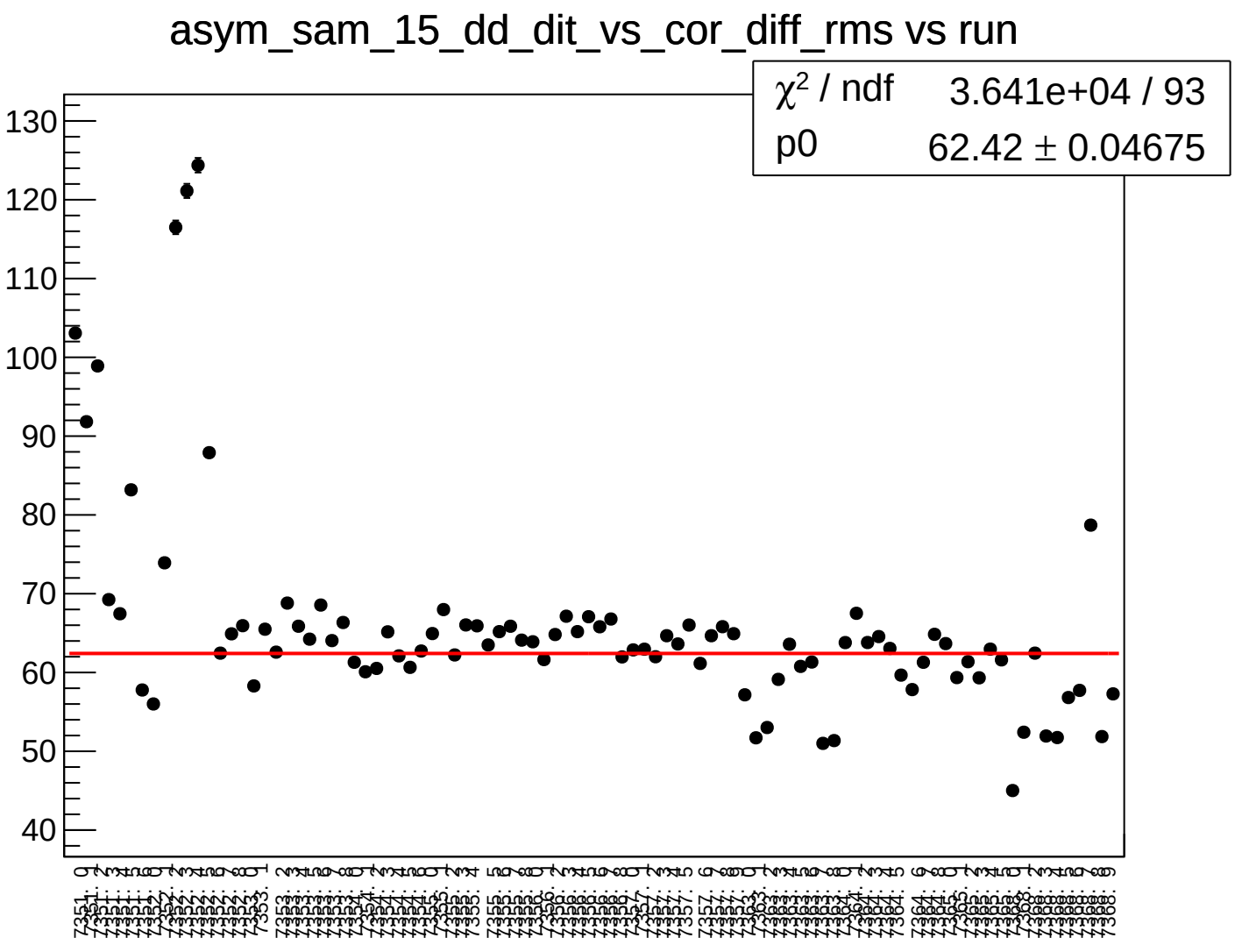

pull1D
Entries 94
Mean −0.0137
Std Dev 1.176

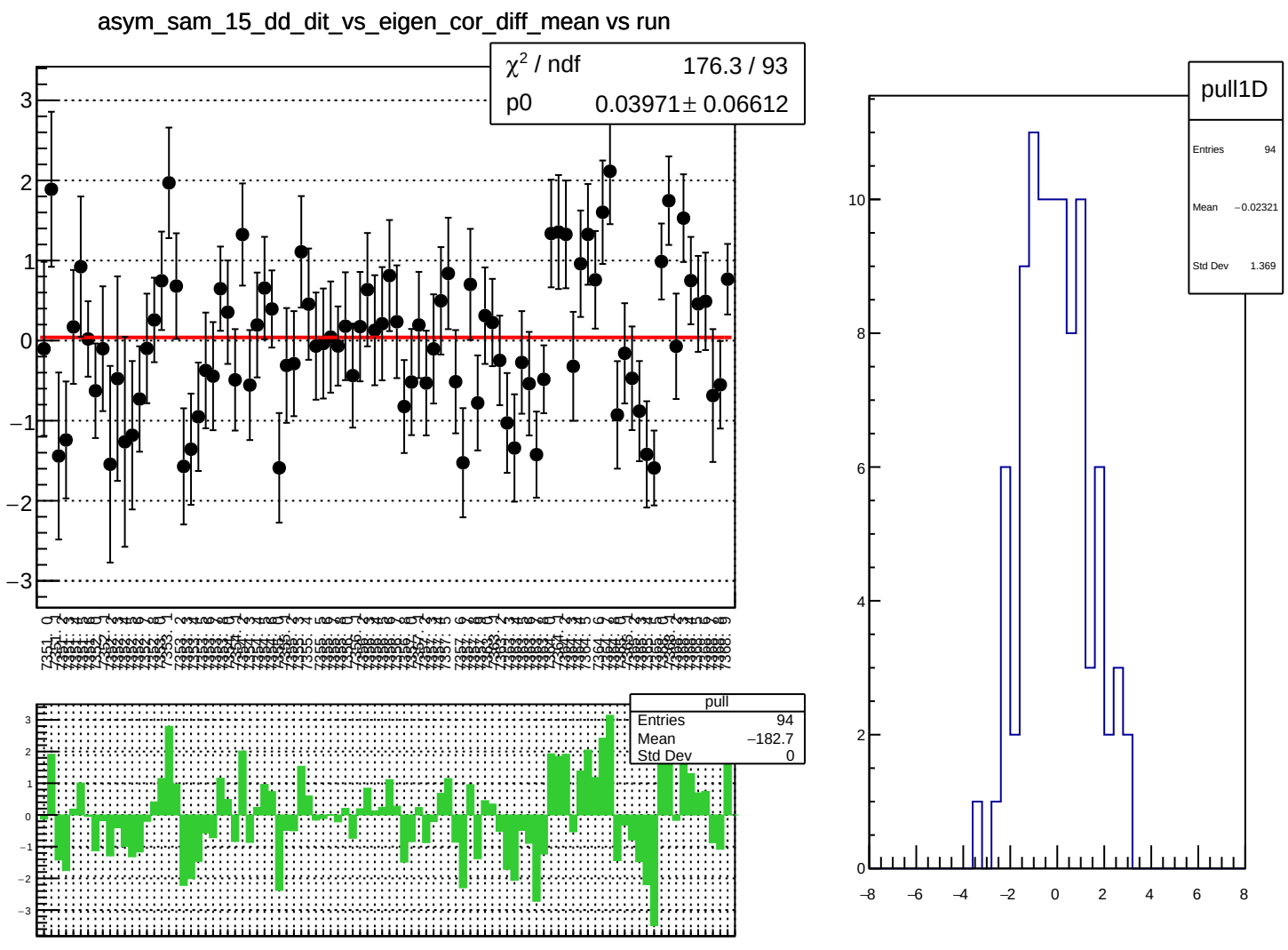

asym_sam_15_dd_rms vs run
χ² / ndf 7007 / 93
p0 716.9 ± 0.5327
800
750
700
650
600

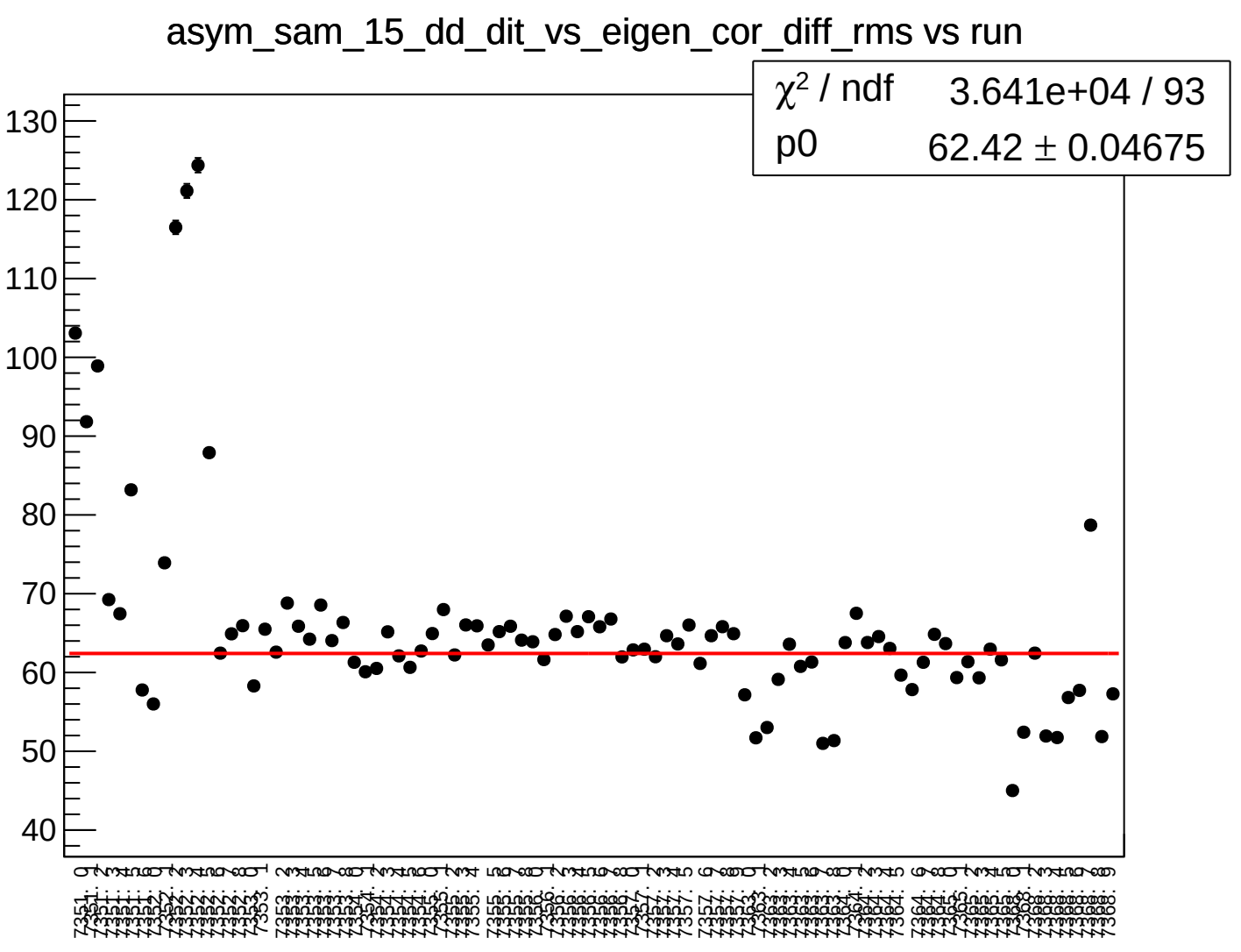

asym_sam_15_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 144.2 / 93
p0 −1.867e−15 ± 1.798e−14
0.003
0.002
0.001
0
−0.001
−0.002
pull
Entries 94
Mean −58.7
Std Dev 0
pull1D
Entries 94
Mean −0.03221
Std Dev 1.238

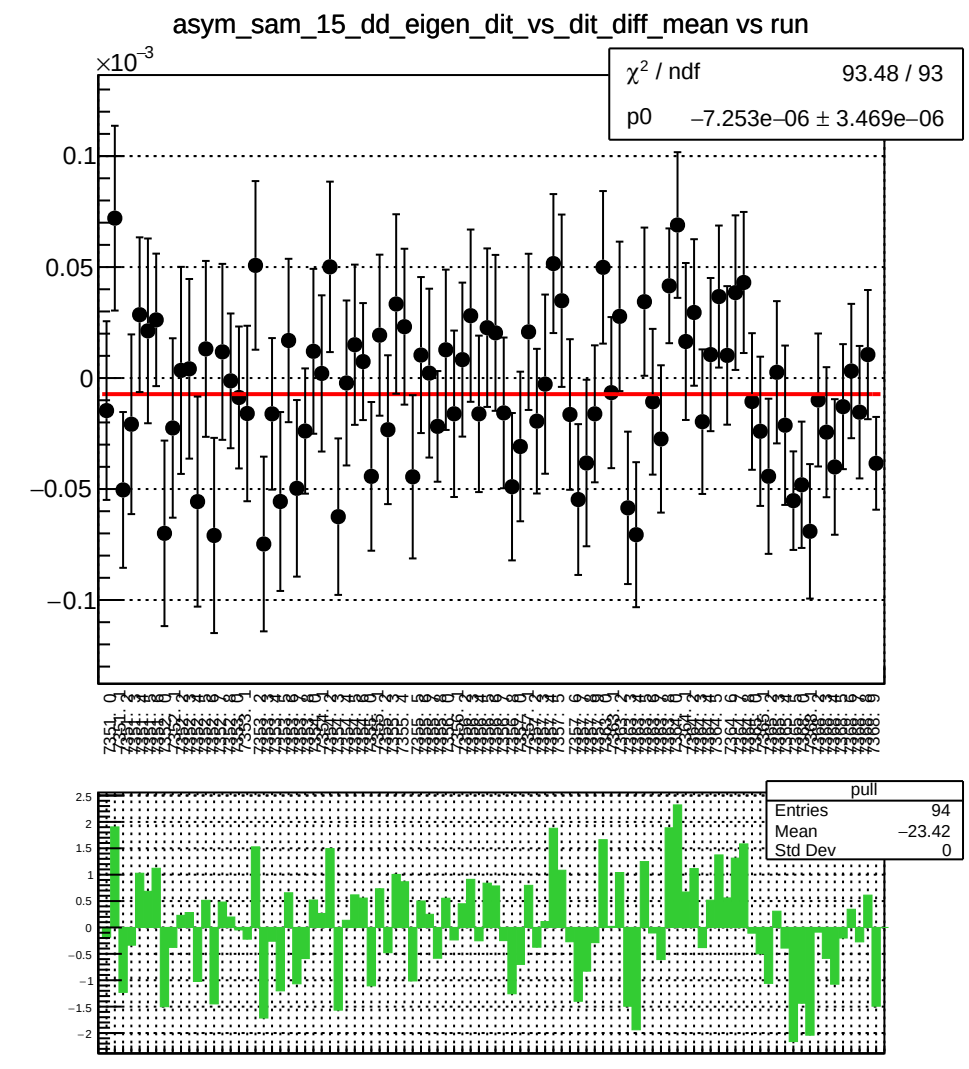

asym_sam_15_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.32e+06 / 93
p0 8.981e−12 ± 1.271e−14
0.1
0.08
0.06
0.04
0.02
0

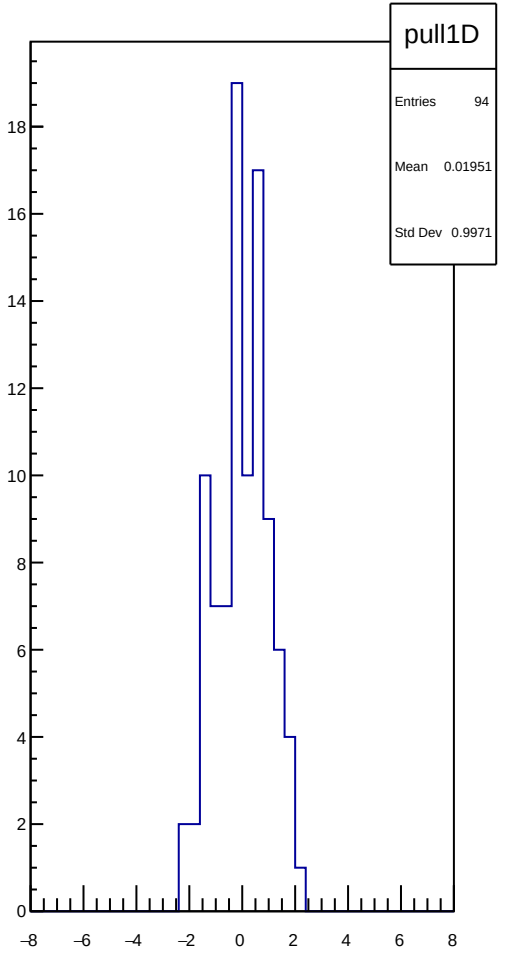

asym_sam_15_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 176.3 / 93
p0 0.03971 ± 0.06612
pull
Entries 94
Mean −182.7
Std Dev 0
pull1D
Entries 94
Mean −0.02321
Std Dev 1.369

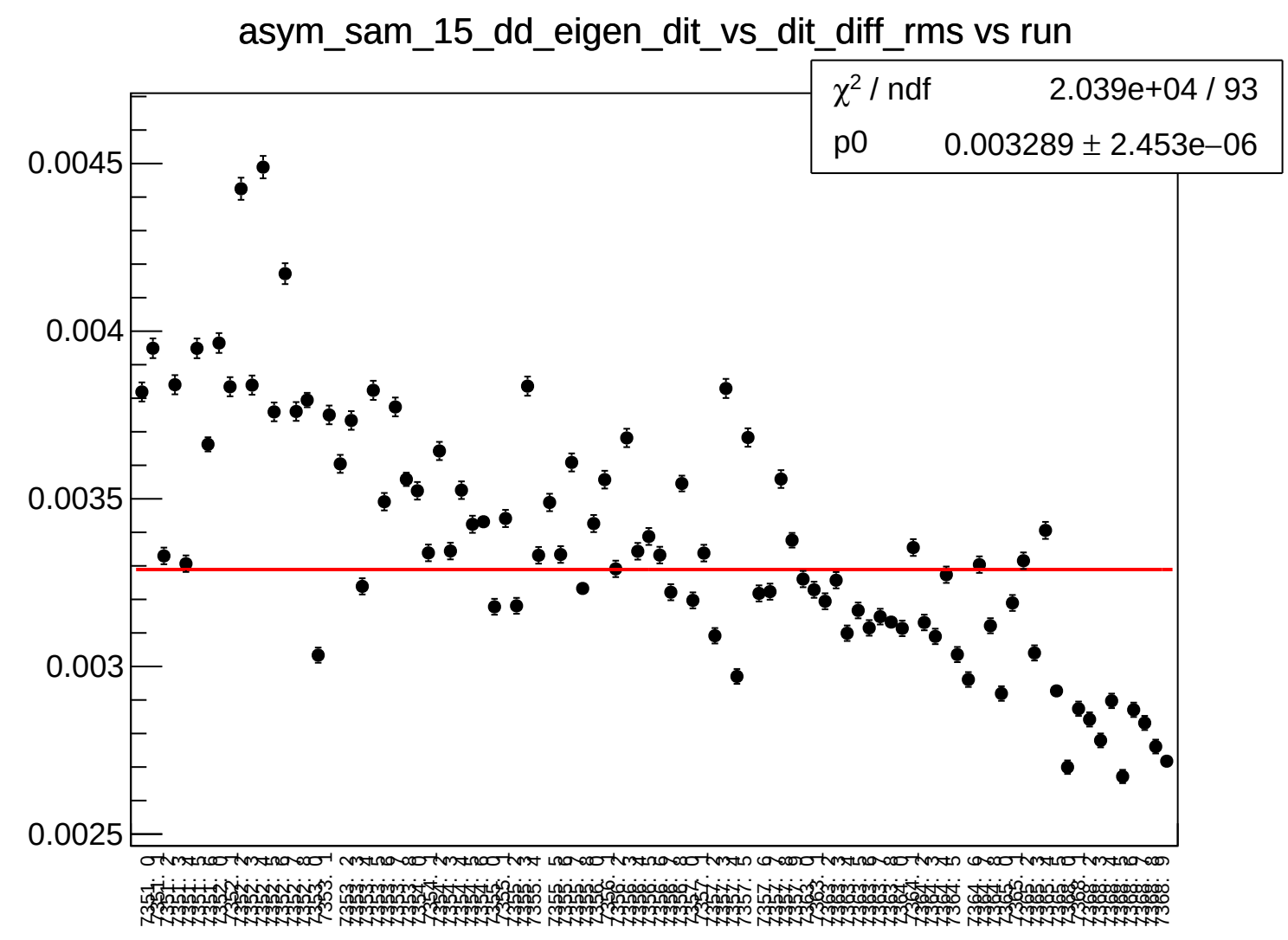

asym_sam_15_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.641e+04 / 93
p0 62.42 ± 0.04675
130
120
110
100
90
80
70
60
50
40

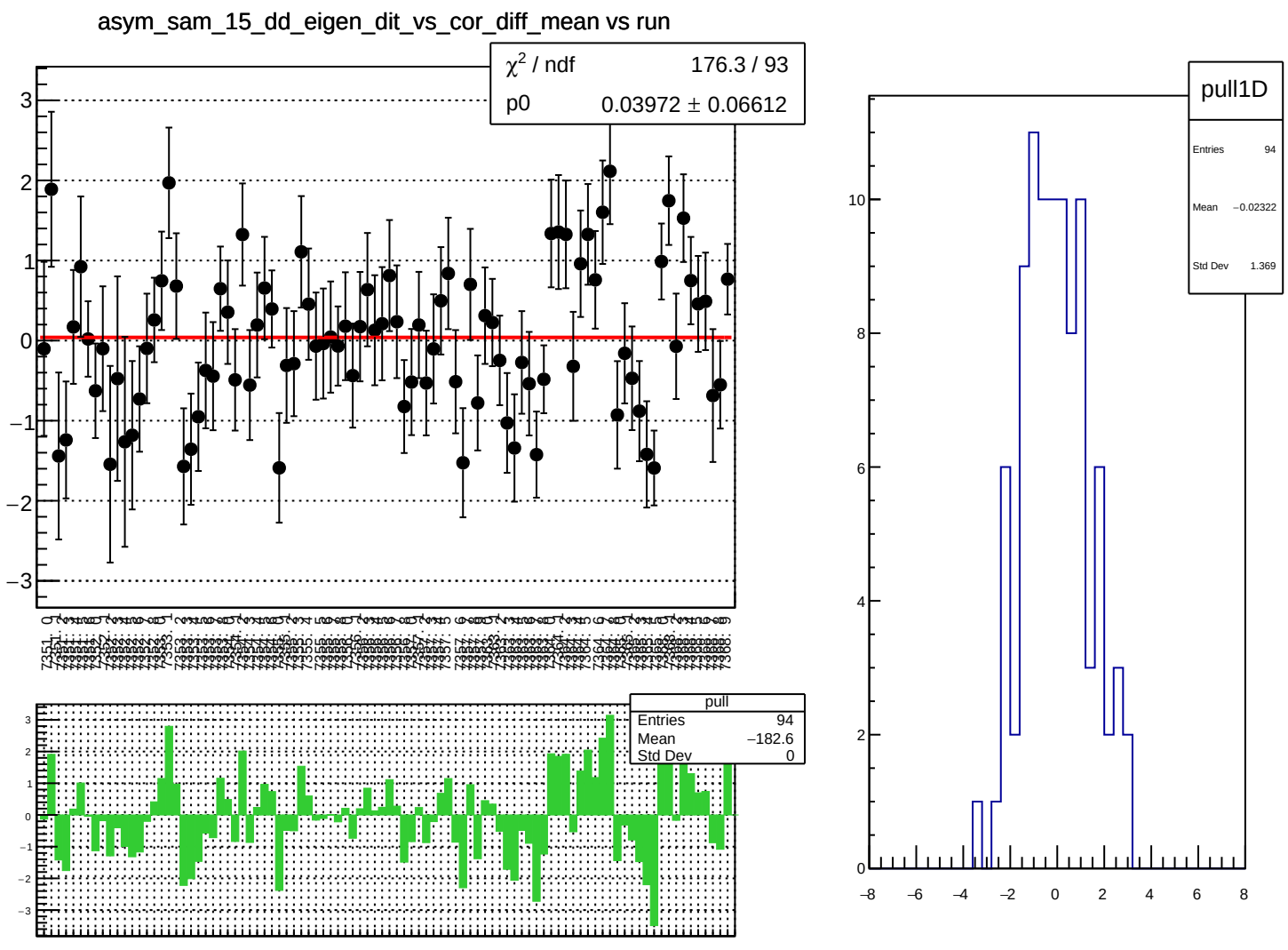

asym_sam_15_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 176.3 / 93
p0 0.03971 ± 0.06612
pull
Entries 94
Mean −182.7
Std Dev 0
pull1D
Entries 94
Mean −0.02321
Std Dev 1.369

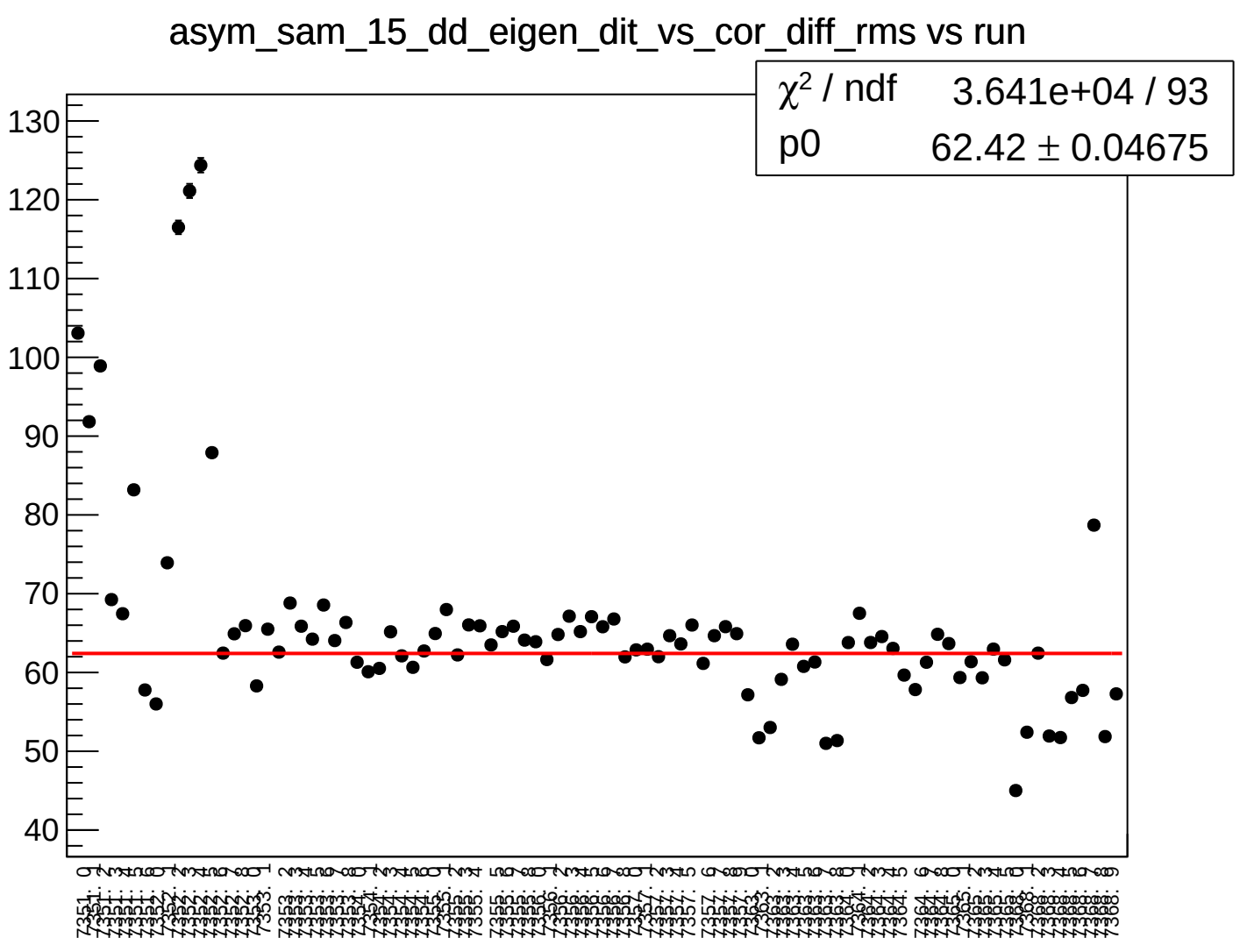

asym_sam_15_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.641e+04 / 93
p0 62.42 ± 0.04675
130
120
110
100
90
80
70
60
50
40

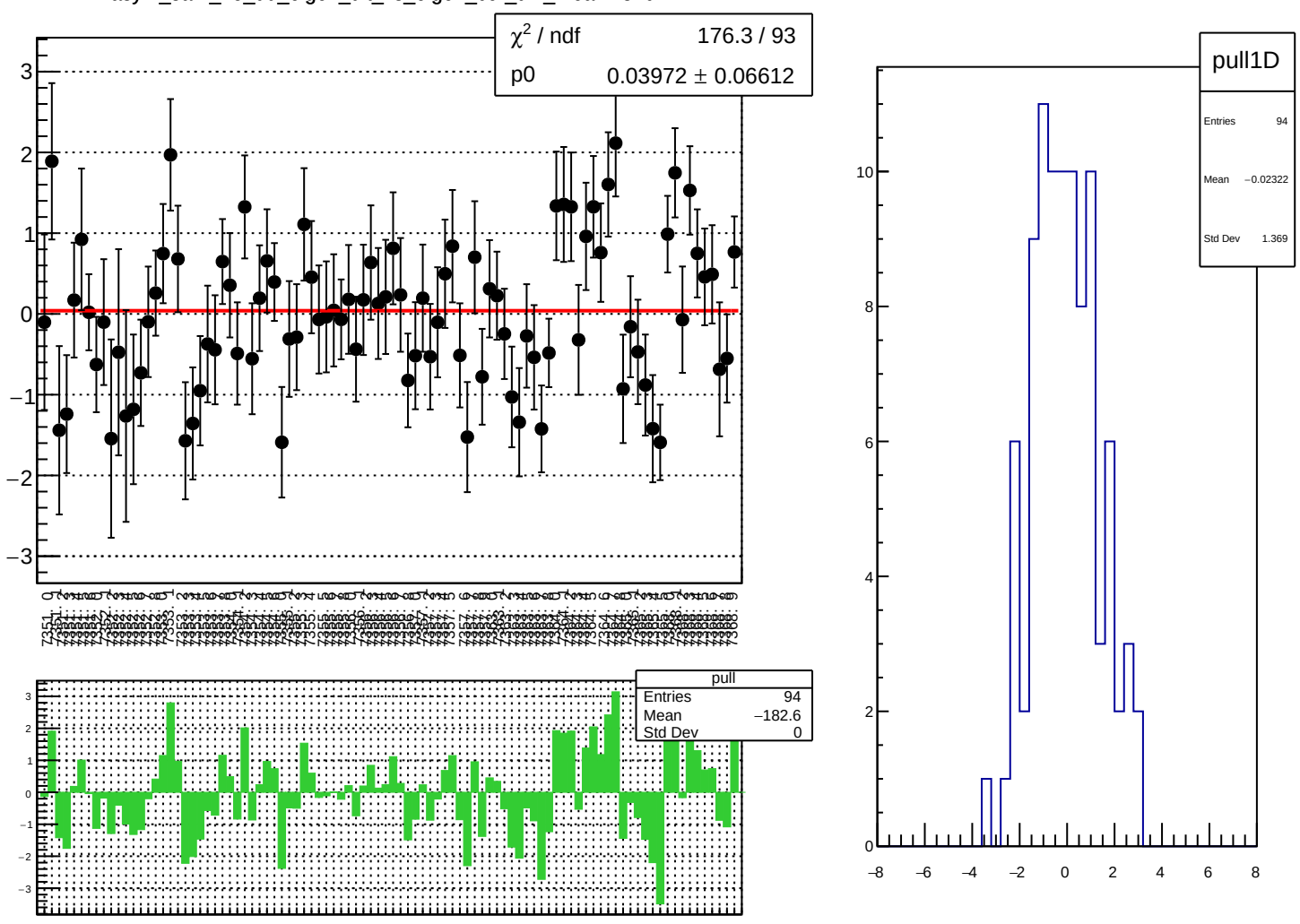

asym_sam_15_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93.48 / 93
p0 −7.253e−06 ± 3.469e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 94
Mean −23.42
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

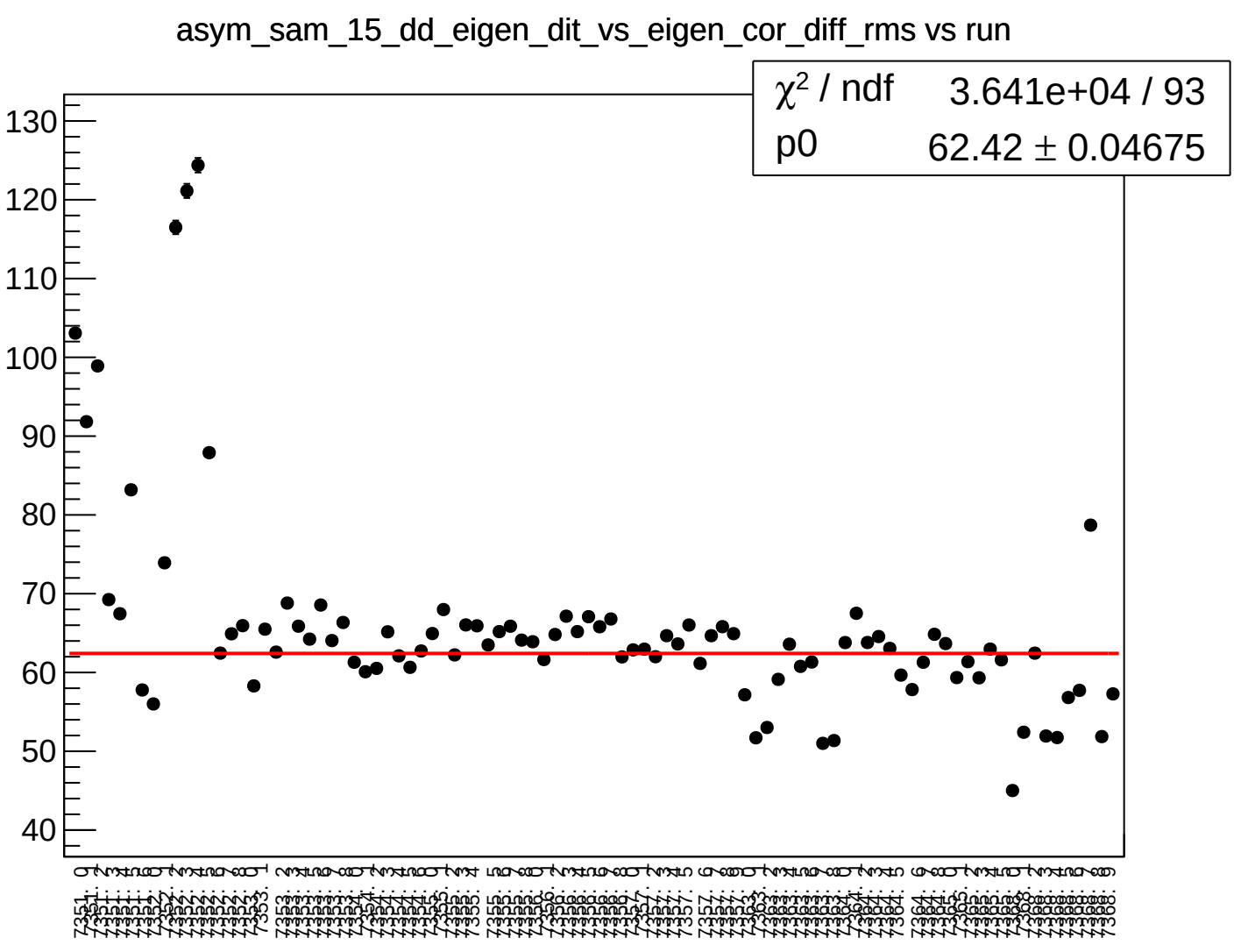

pull1D
Entries 94
Mean 0.01951
Std Dev 0.9971
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

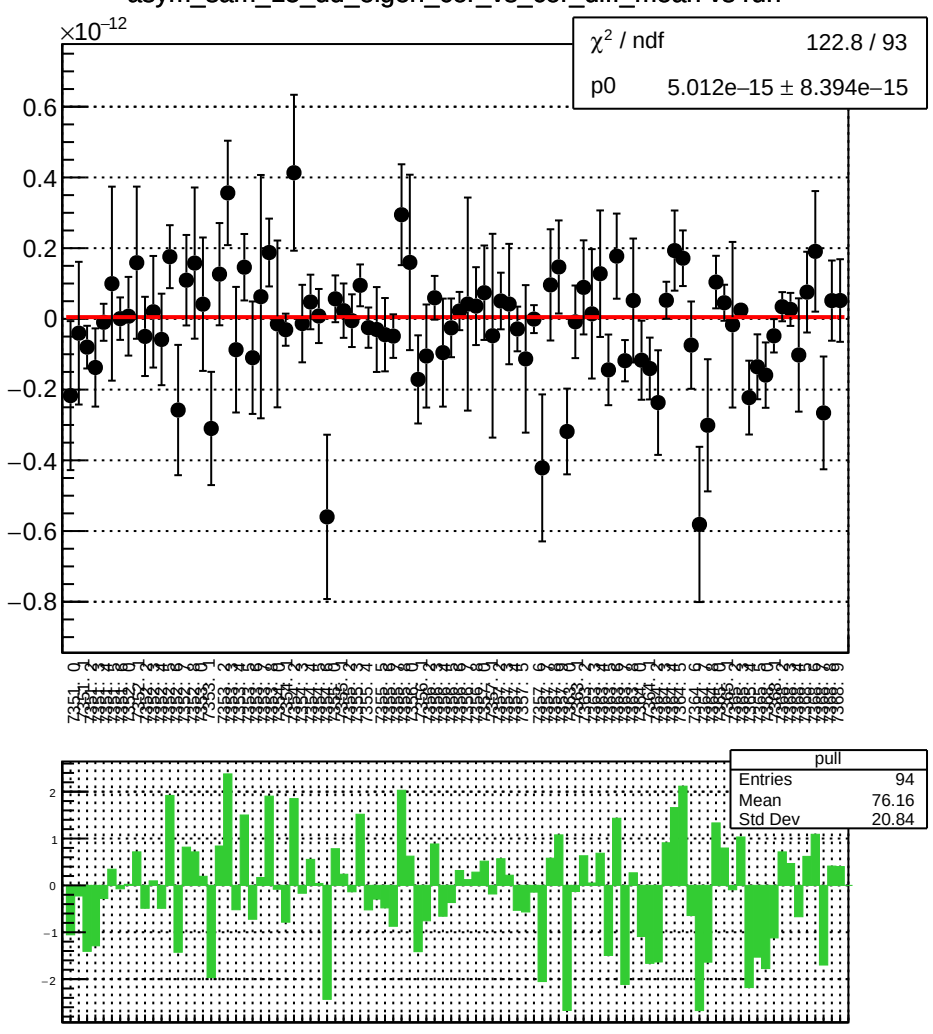

asym_sam_15_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.039e+04 / 93
p0 0.003289 ± 2.453e−06
0.0045
0.004
0.0035
0.003
0.0025

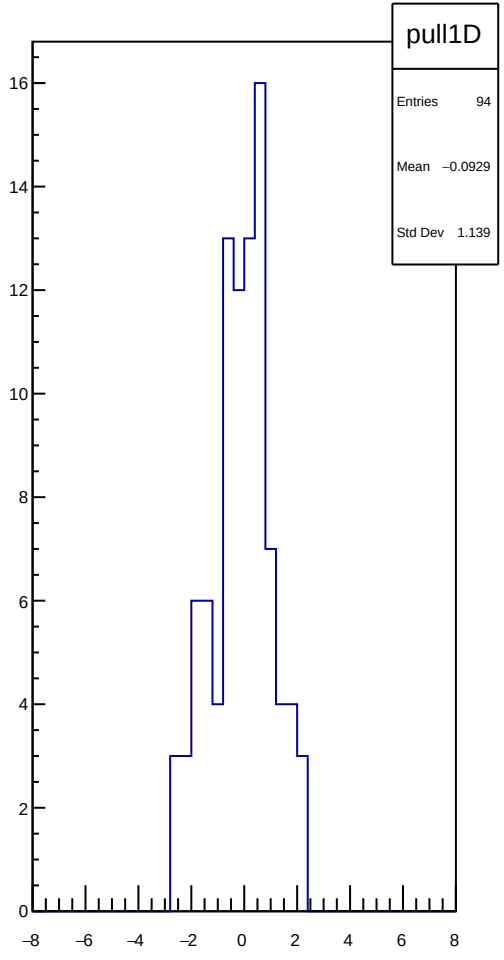

asym_sam_15_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 176.3 / 93
p0 0.03972 ± 0.06612
pull
Entries 94
Mean −182.6
Std Dev 0
pull1D
Entries 94
Mean −0.02322
Std Dev 1.369

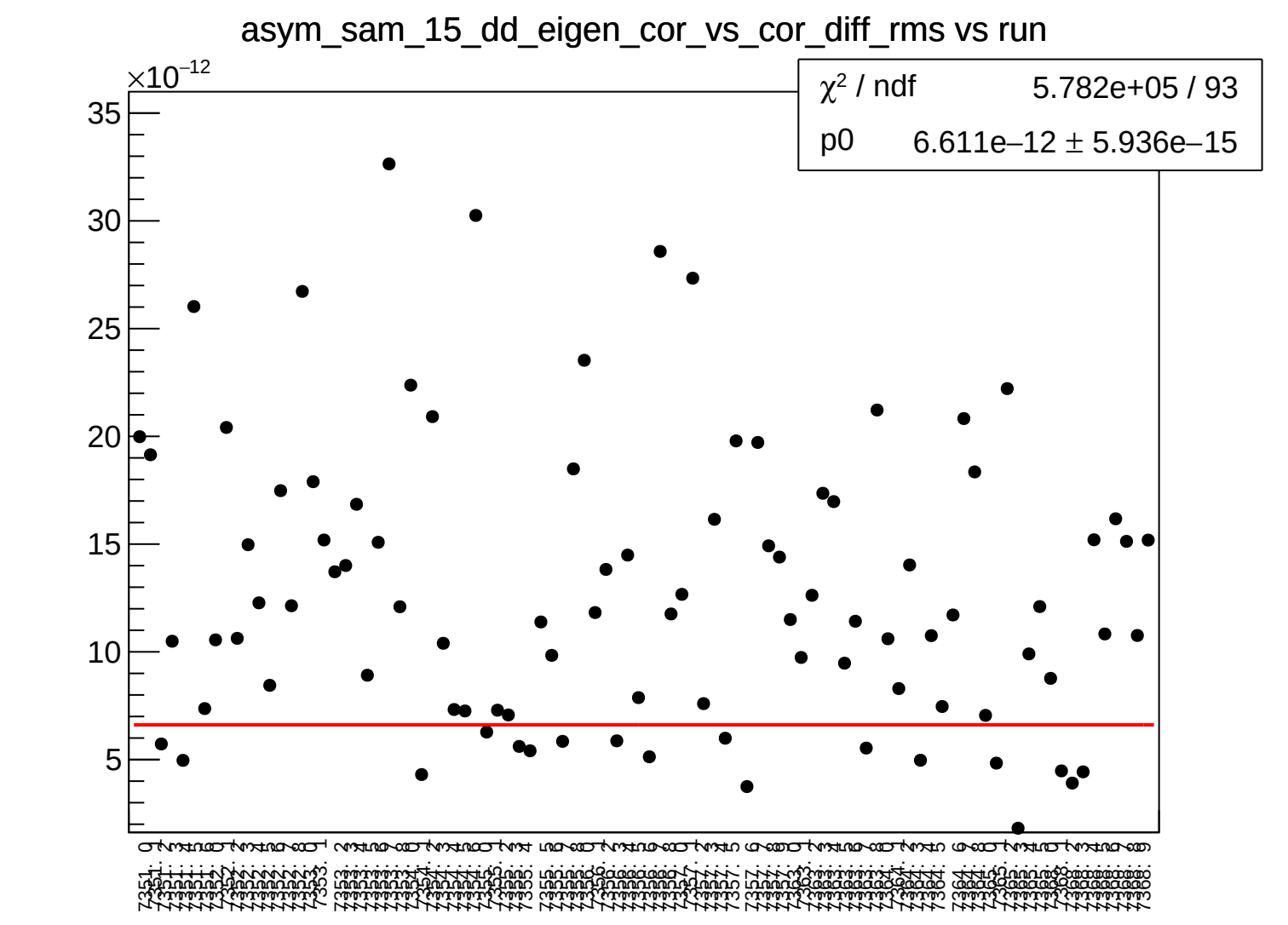

asym_sam_15_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.641e+04 / 93
p0 62.42 ± 0.04675
130
120
110
100
90
80
70
60
50
40

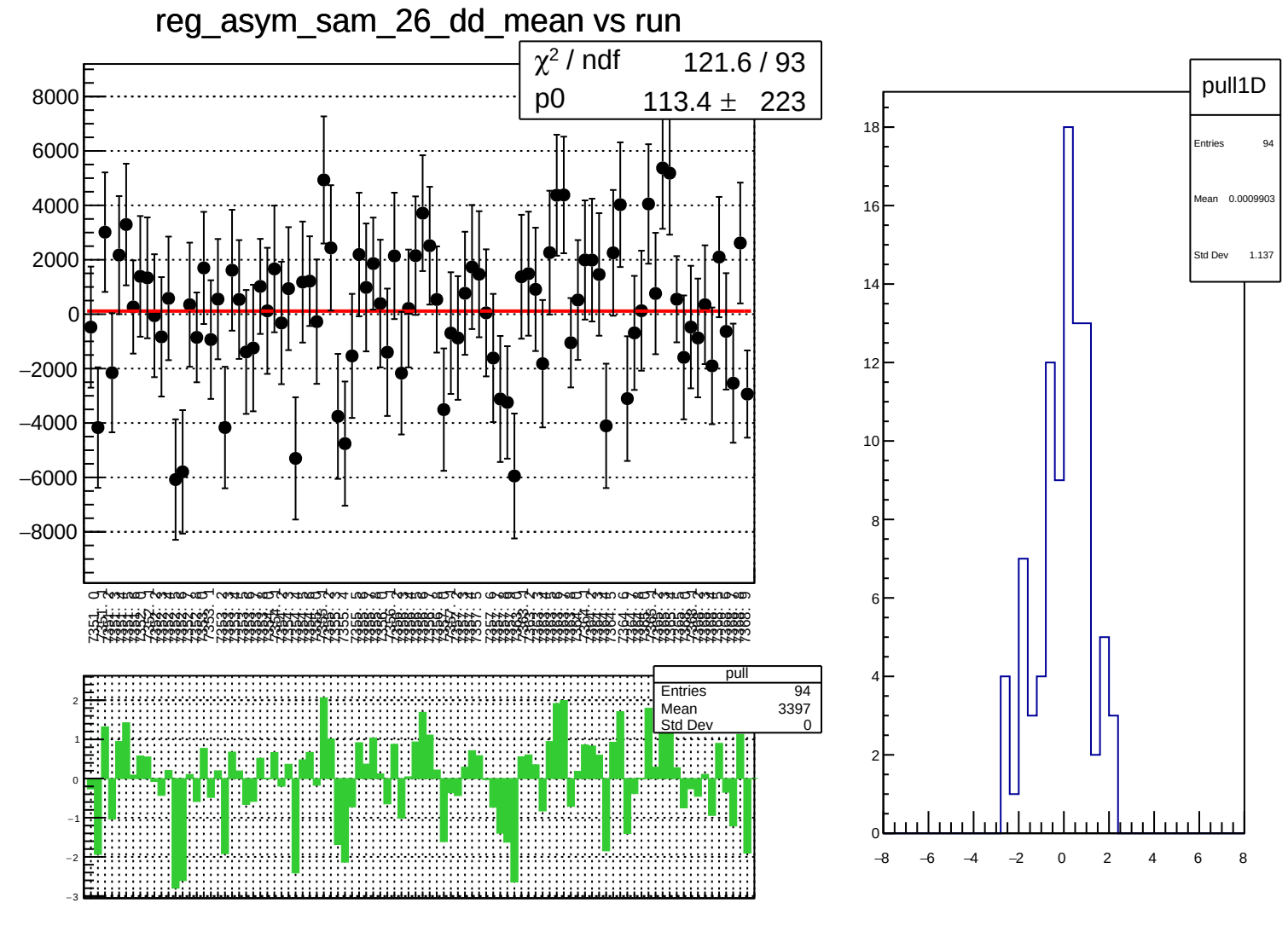

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 176.3 / 93
p0 0.03972 ± 0.06612
pull
Entries 94
Mean −182.6
Std Dev 0
pull1D
Entries 94
Mean −0.02322
Std Dev 1.369

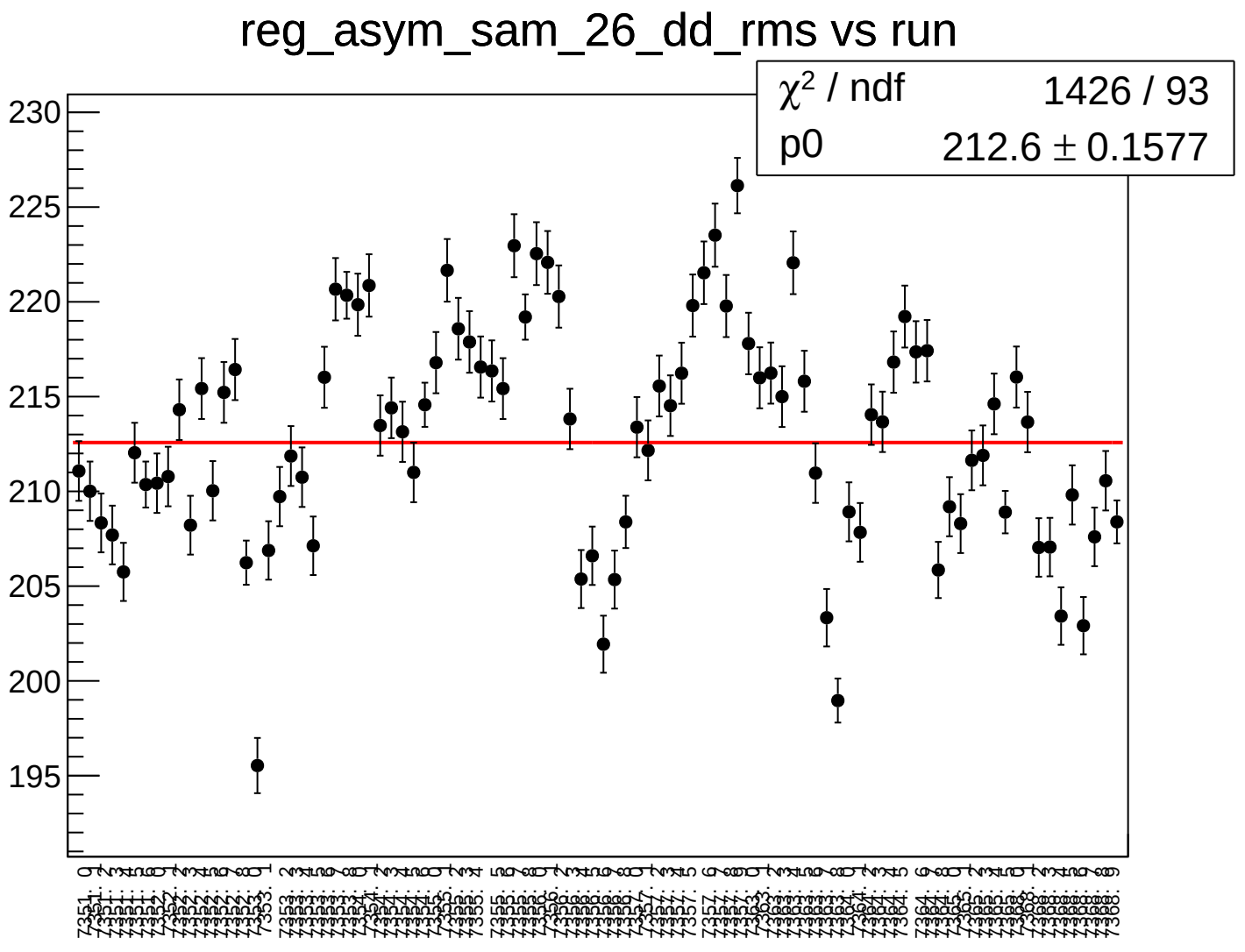

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.641e+04 / 93
p0 62.42 ± 0.04675
130
120
110
100
90
80
70
60
50
40

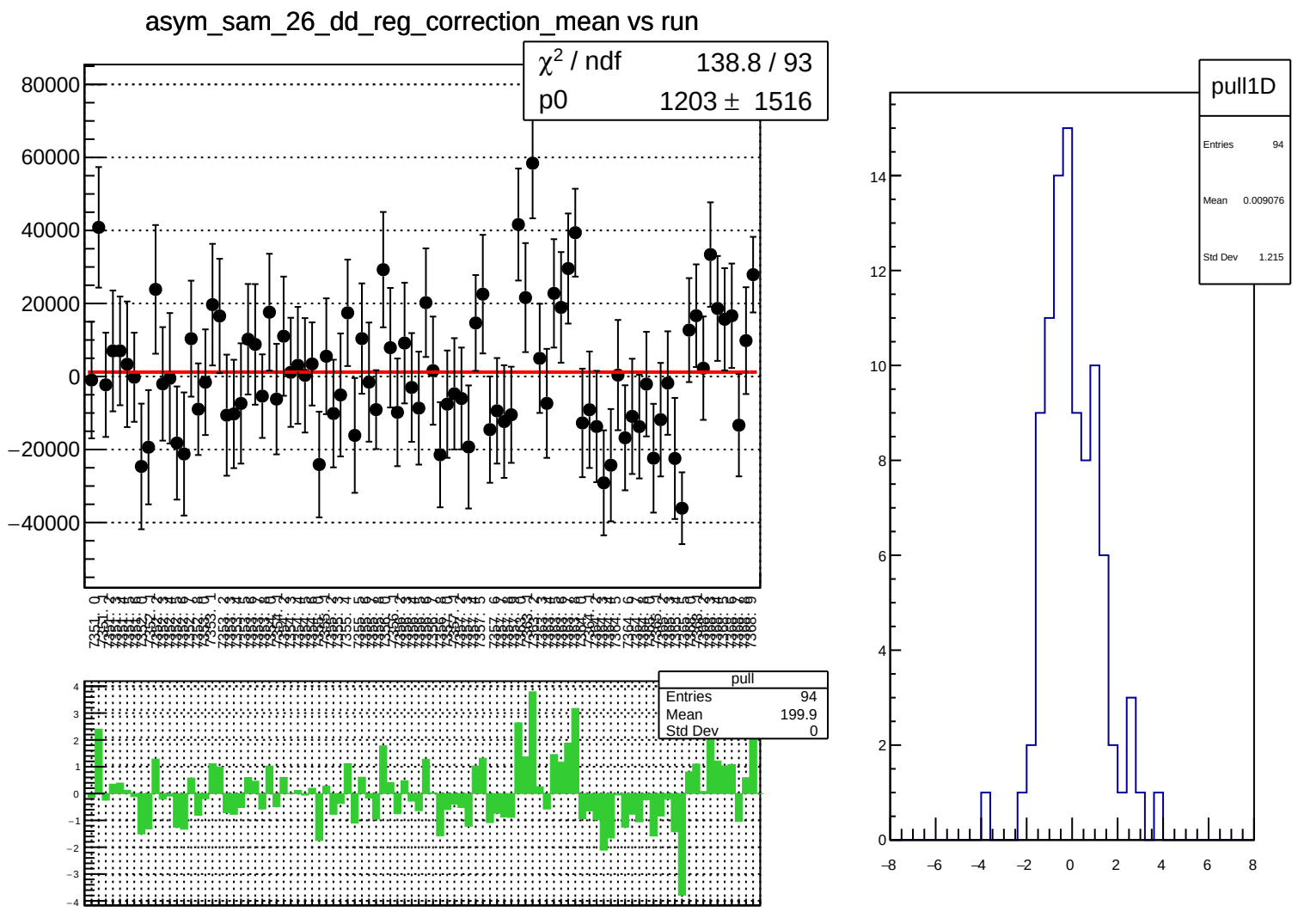

asym_sam_15_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 122.8 / 93
p0 5.012e−15 ± 8.394e−15
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull
Entries 94
Mean 76.16
Std Dev 20.84
2
1
0
−1
−2

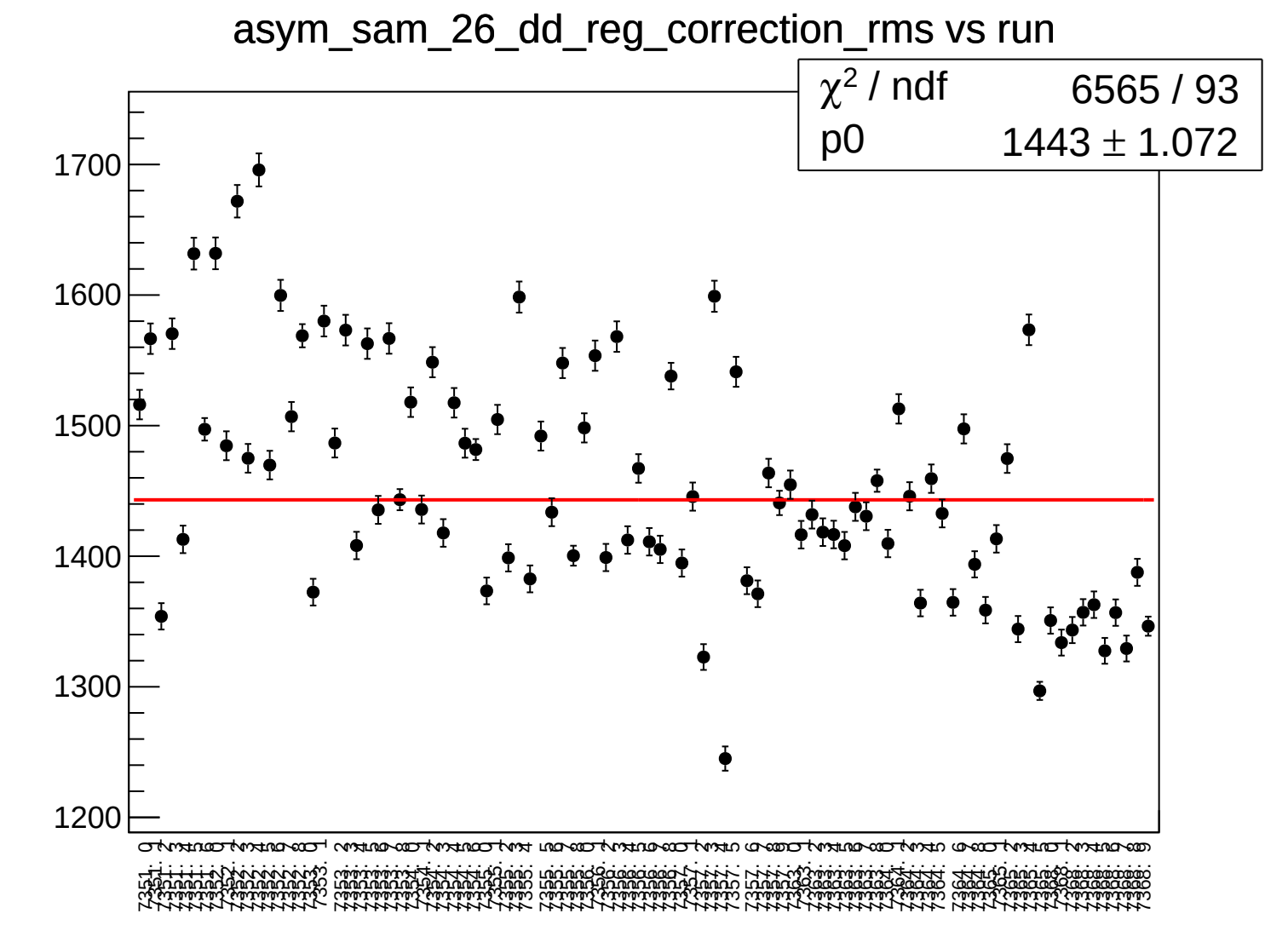

pull1D
Entries 94
Mean −0.0929
Std Dev 1.139
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

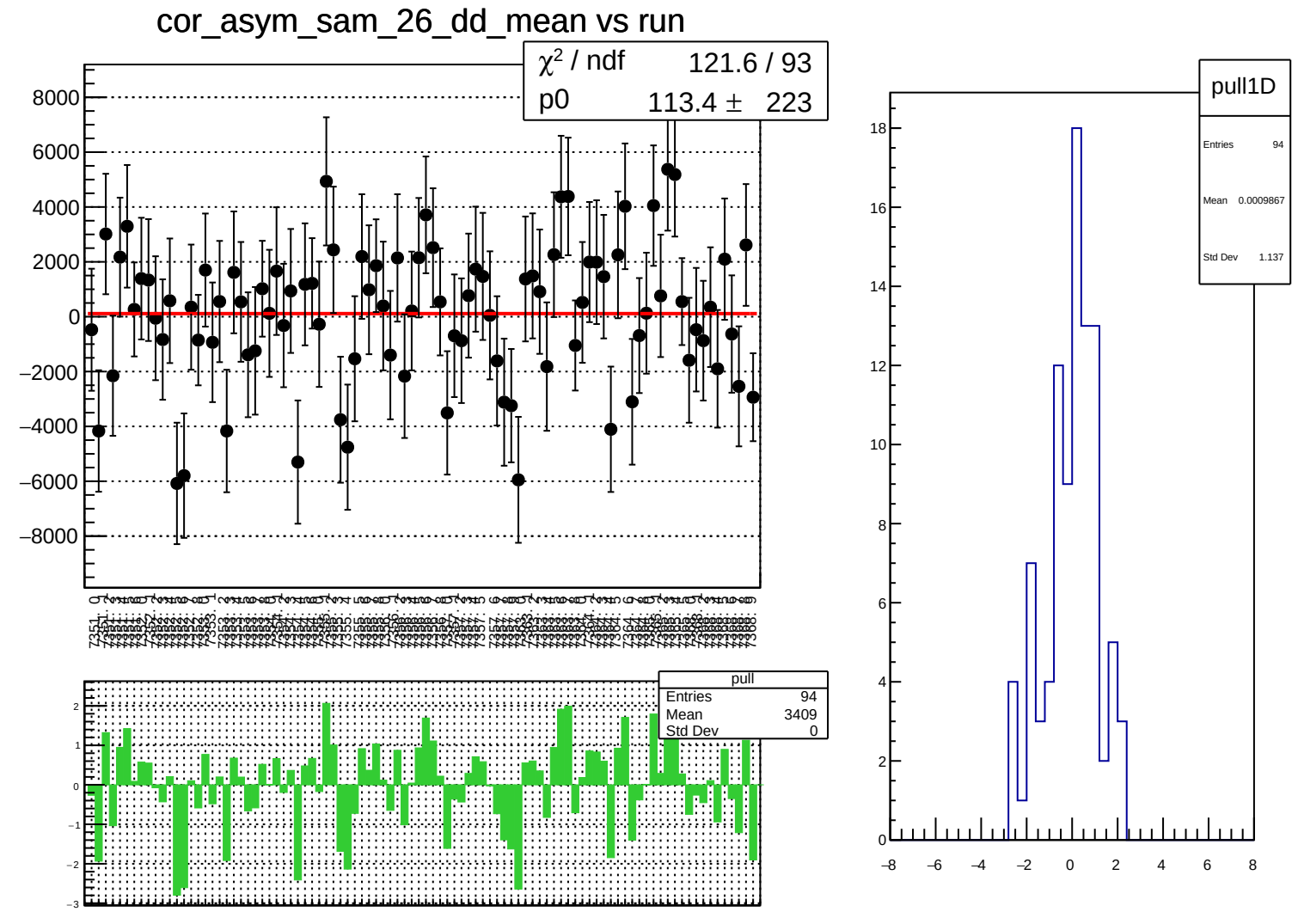

asym_sam_15_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.782e+05 / 93
p0 6.611e−12 ± 5.936e−15
35
30
25
20
15
10
5

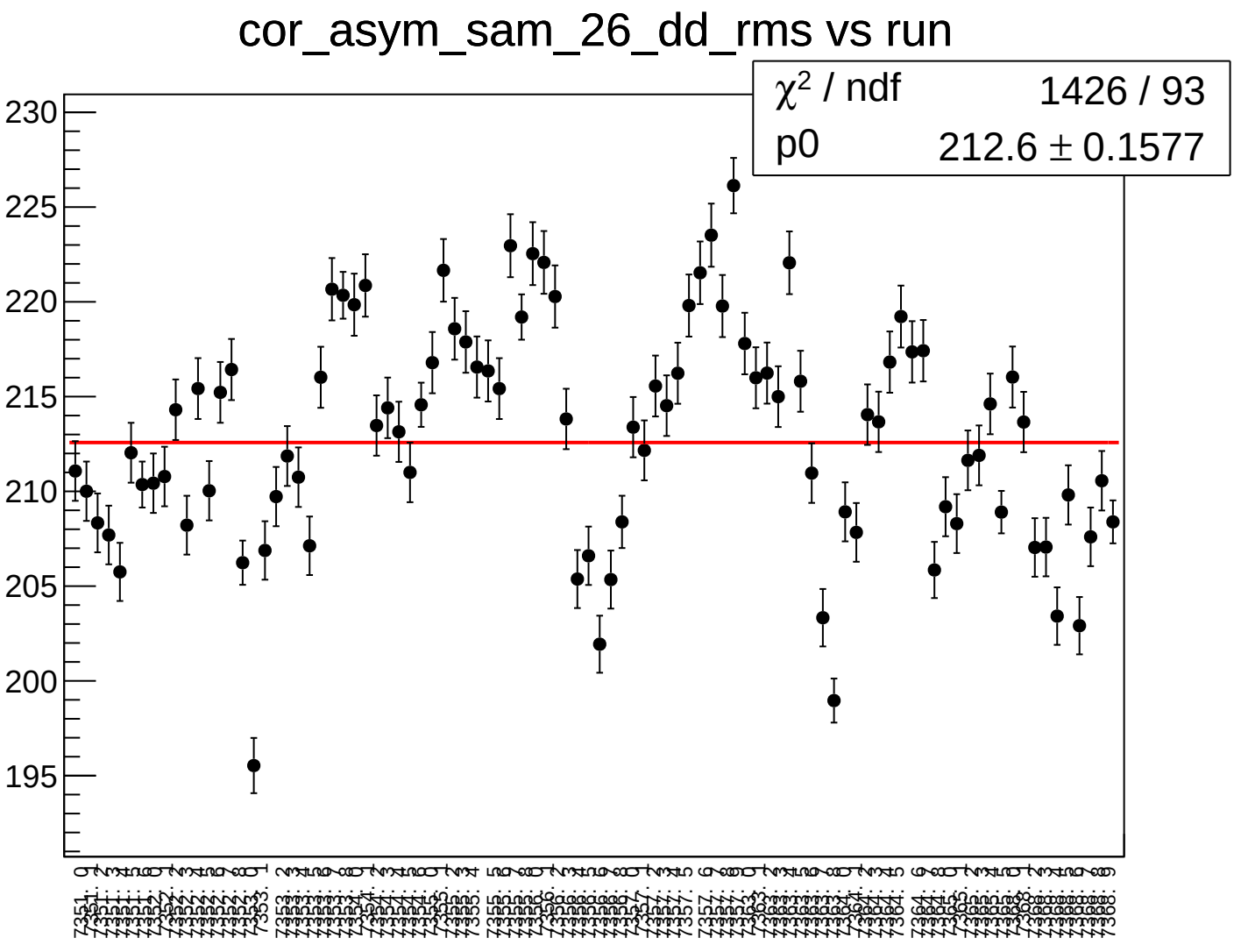

reg_asym_sam_26_dd_mean vs run
χ² / ndf 121.6 / 93
p0 113.4 ± 223
pull
Entries 94
Mean 3397
Std Dev 0
pull1D
Entries 94
Mean 0.0009903
Std Dev 1.137

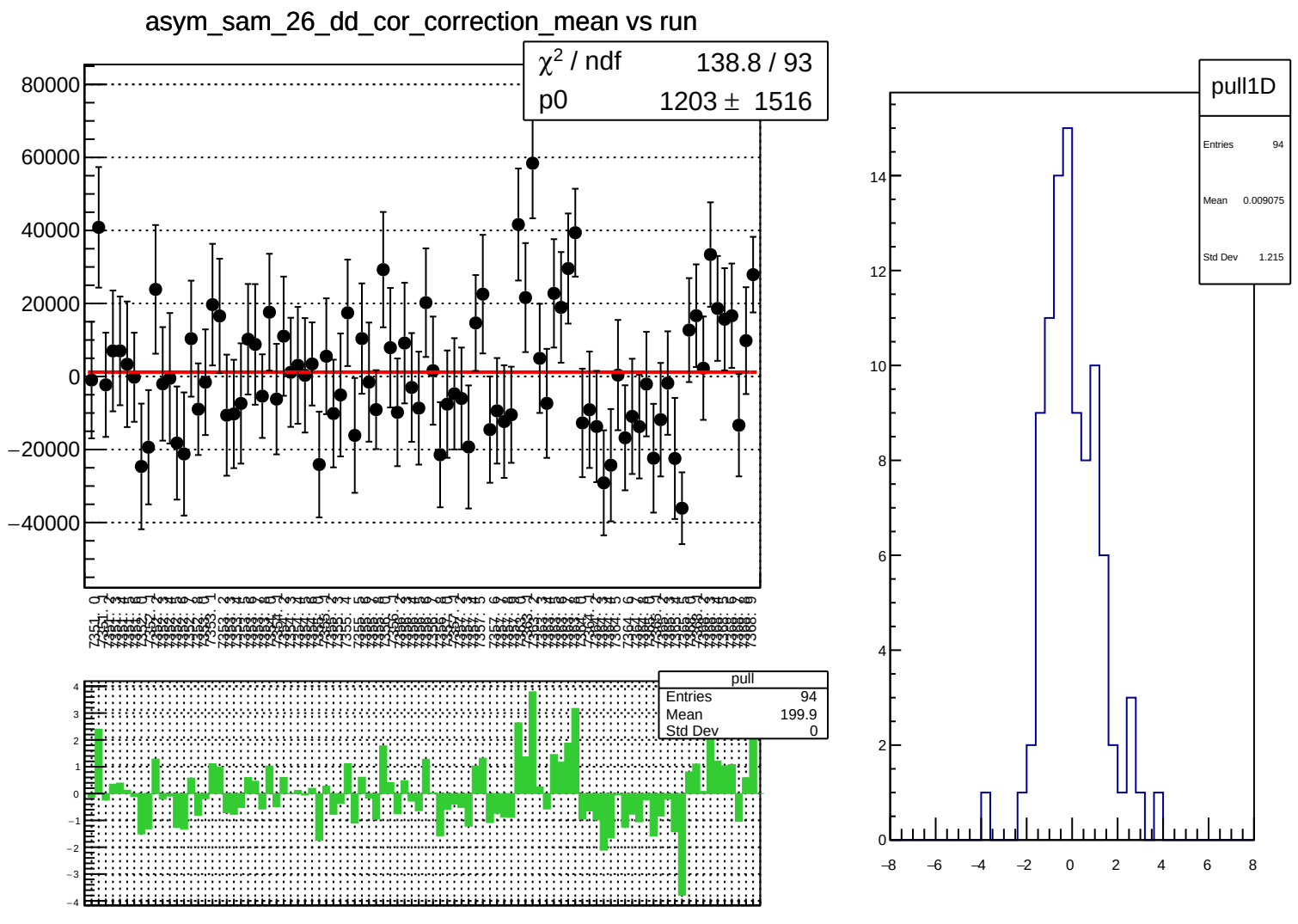

reg_asym_sam_26_dd_rms vs run
χ² / ndf 1426 / 93
p0 212.6 ± 0.1577
230
225
220
215
210
205
200
195

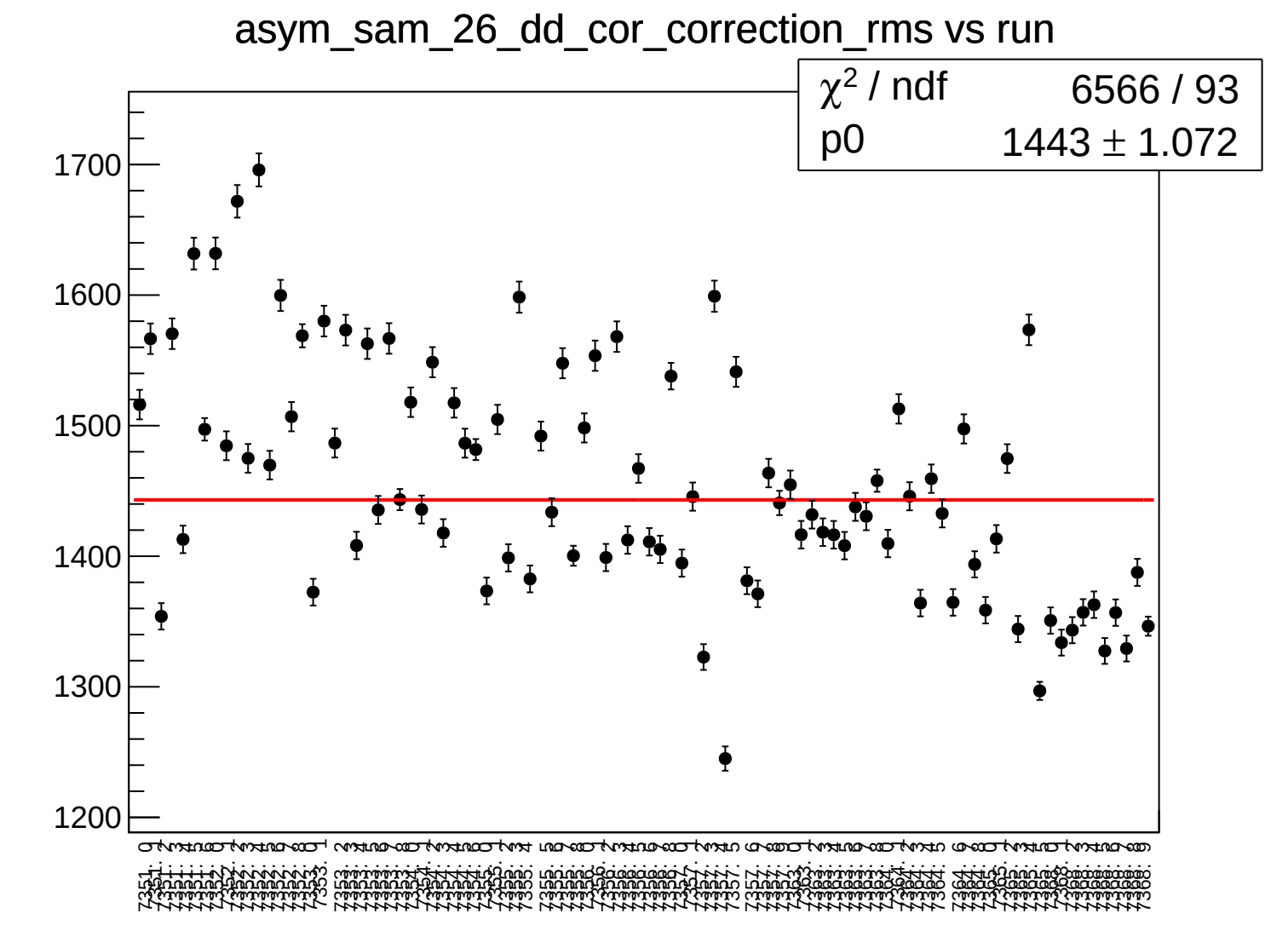

asym_sam_26_dd_reg_correction_mean vs run
χ² / ndf 138.8 / 93
p0 1203 ± 1516
80000
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 199.9
Std Dev 0
pull1D
Entries 94
Mean 0.009076
Std Dev 1.215
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

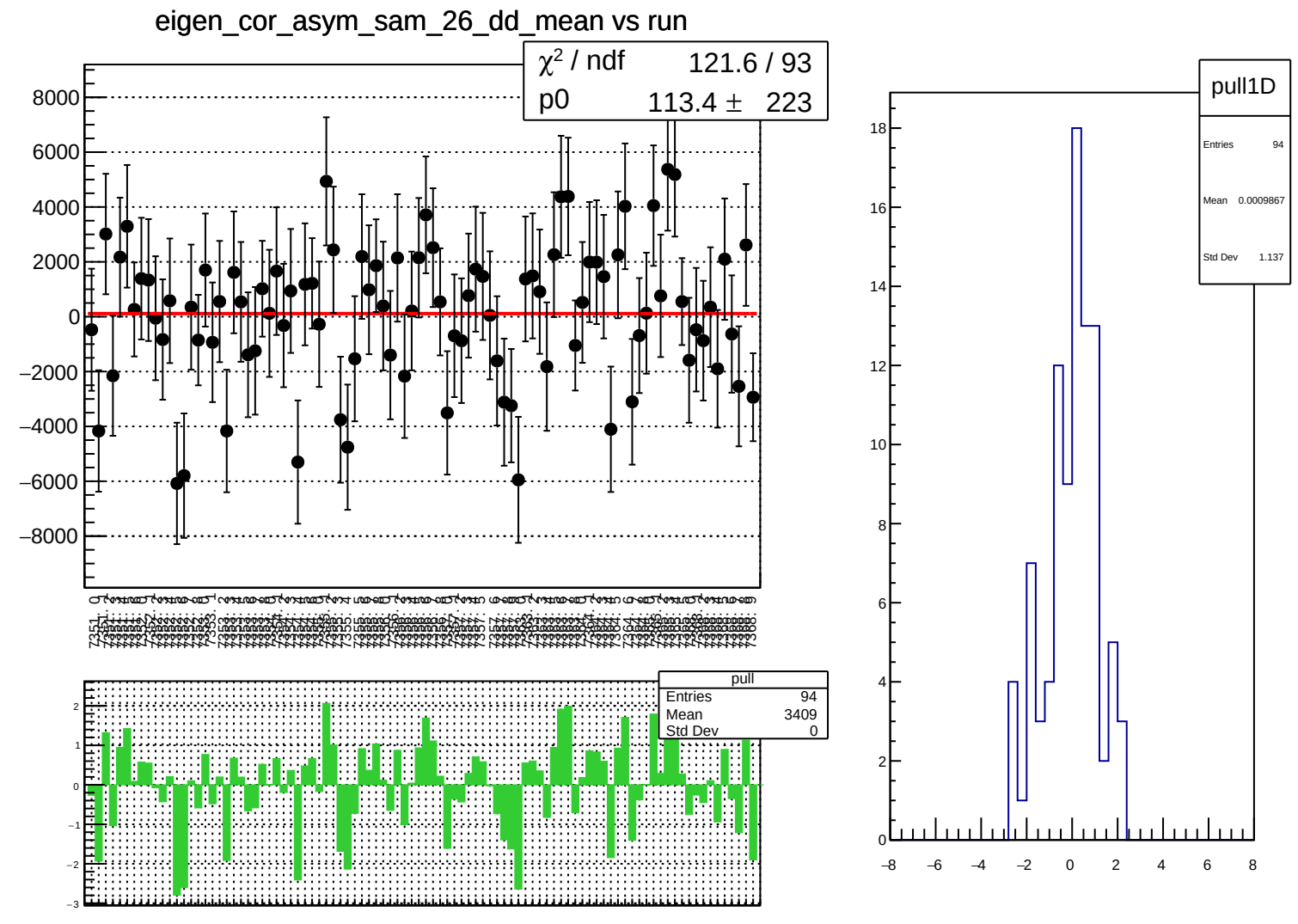

asym_sam_26_dd_reg_correction_rms vs run
χ^2 / ndf 6565 / 93
p0 1443 ± 1.072
1700
1600
1500
1400
1300
1200

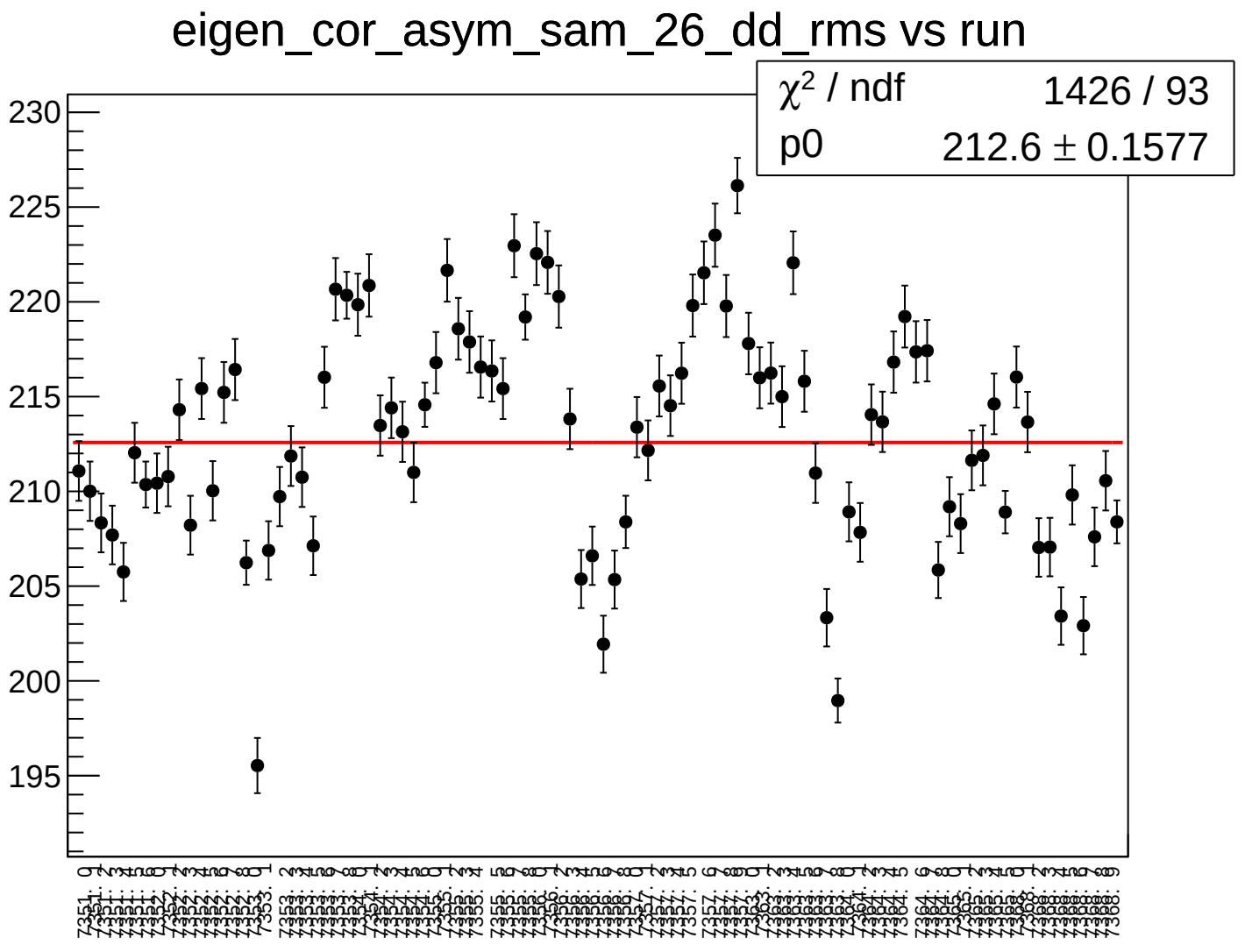

cor_asym_sam_26_dd_mean vs run
χ² / ndf 121.6 / 93
p0 113.4 ± 223
pull
Entries 94
Mean 3409
Std Dev 0
pull1D
Entries 94
Mean 0.0009867
Std Dev 1.137

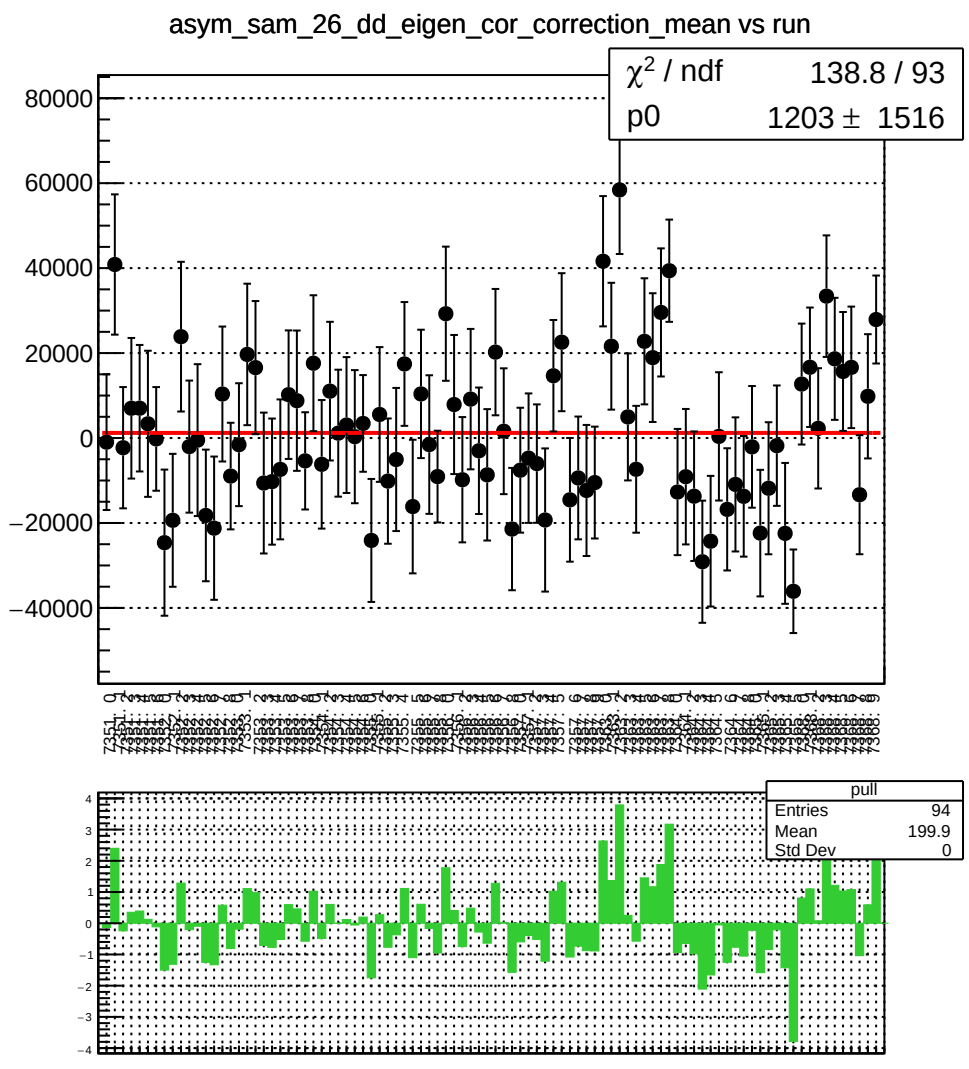

cor_asym_sam_26_dd_rms vs run
χ^2 / ndf 1426 / 93
p0 212.6 ± 0.1577
230
225
220
215
210
205
200
195

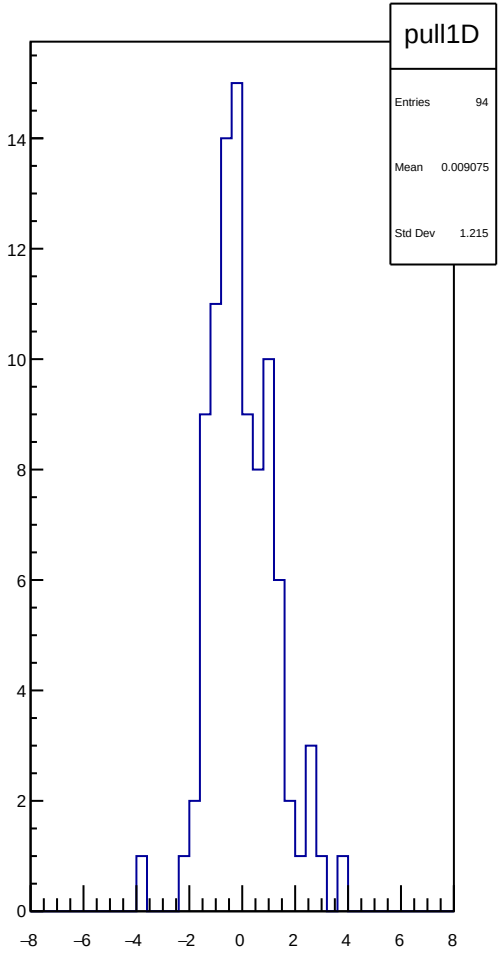

asym_sam_26_dd_cor_correction_mean vs run
χ² / ndf 138.8 / 93
p0 1203 ± 1516
80000
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 199.9
Std Dev 0
pull1D
Entries 94
Mean 0.009075
Std Dev 1.215
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

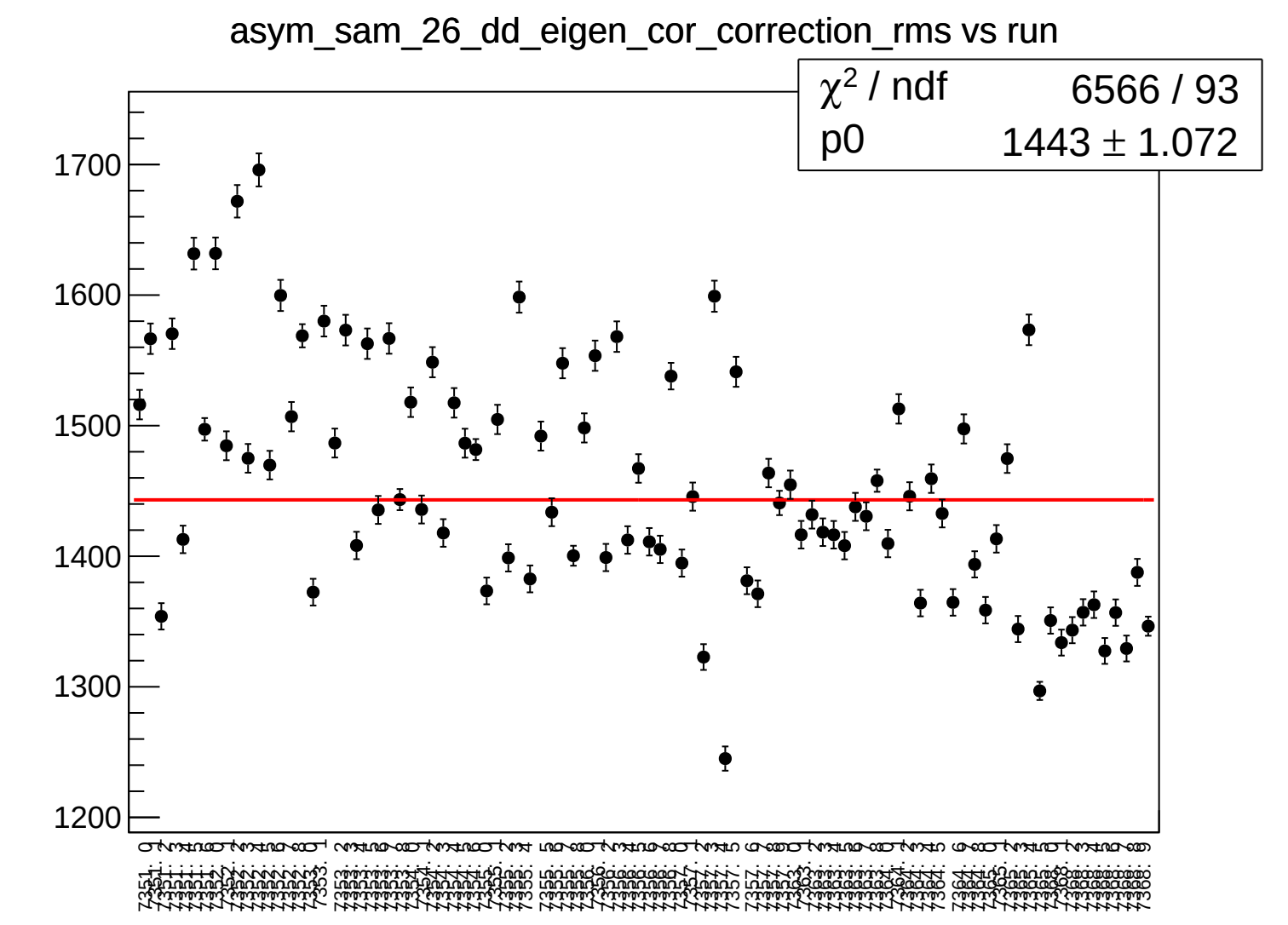

asym_sam_26_dd_cor_correction_rms vs run
χ^2 / ndf 6566 / 93
p0 1443 ± 1.072
1700
1600
1500
1400
1300
1200

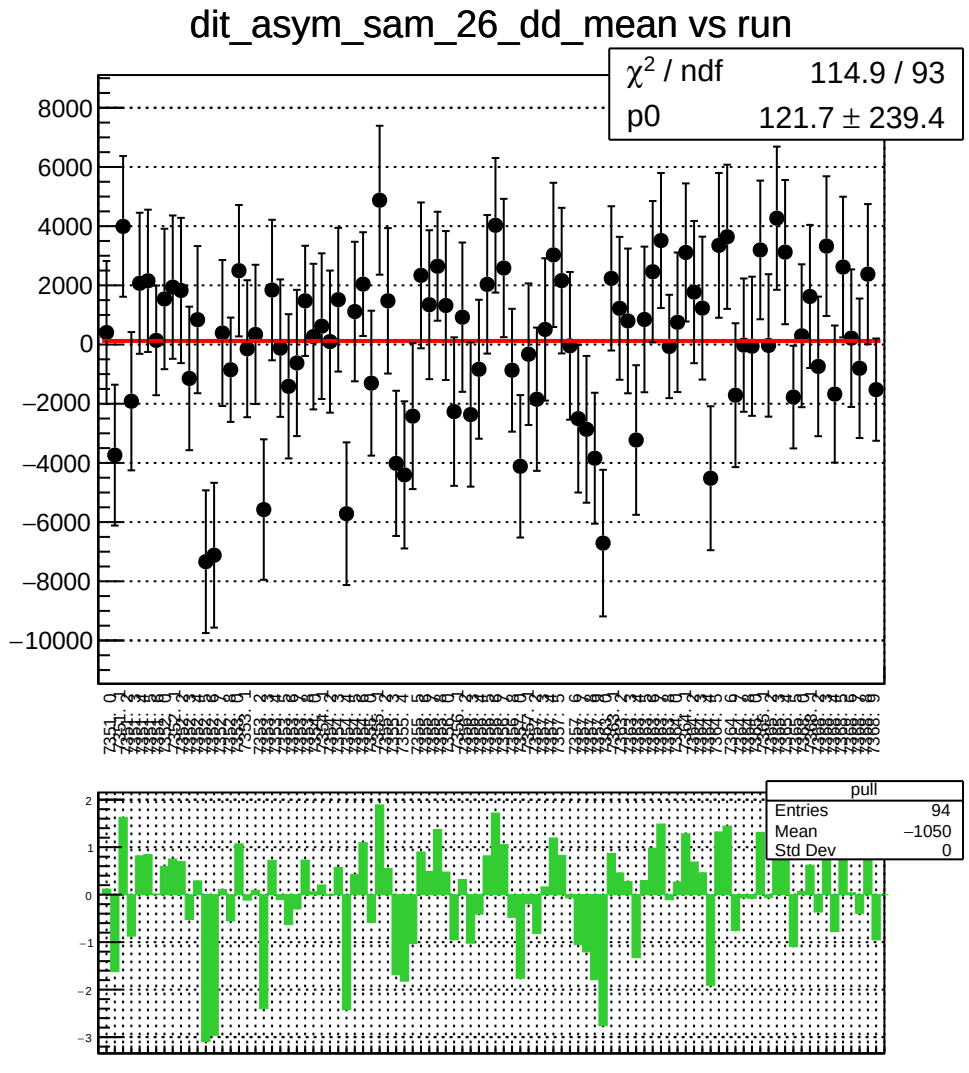

eigen_cor_asym_sam_26_dd_mean vs run
χ² / ndf 121.6 / 93
p0 113.4 ± 223
pull
Entries 94
Mean 3409
Std Dev 0
pull1D
Entries 94
Mean 0.0009867
Std Dev 1.137

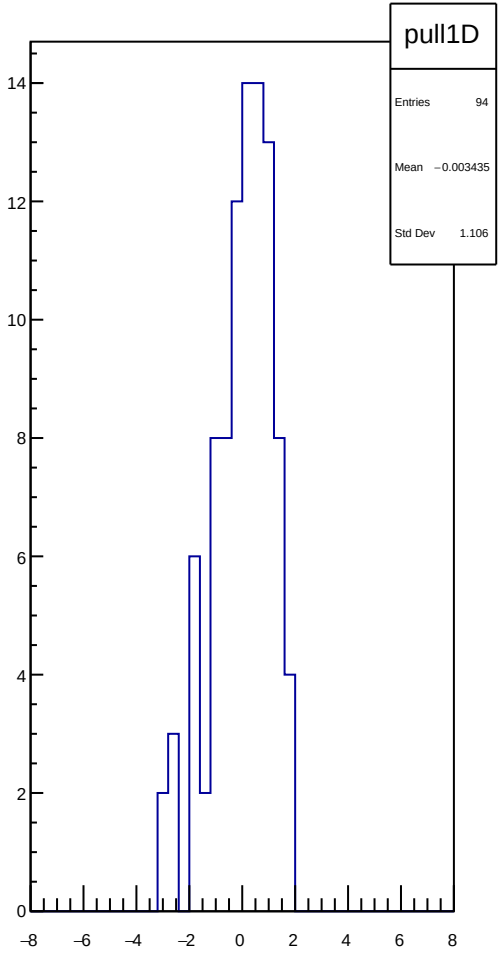

eigen_cor_asym_sam_26_dd_rms vs run
χ² / ndf 1426 / 93
p0 212.6 ± 0.1577
230
225
220
215
210
205
200
195

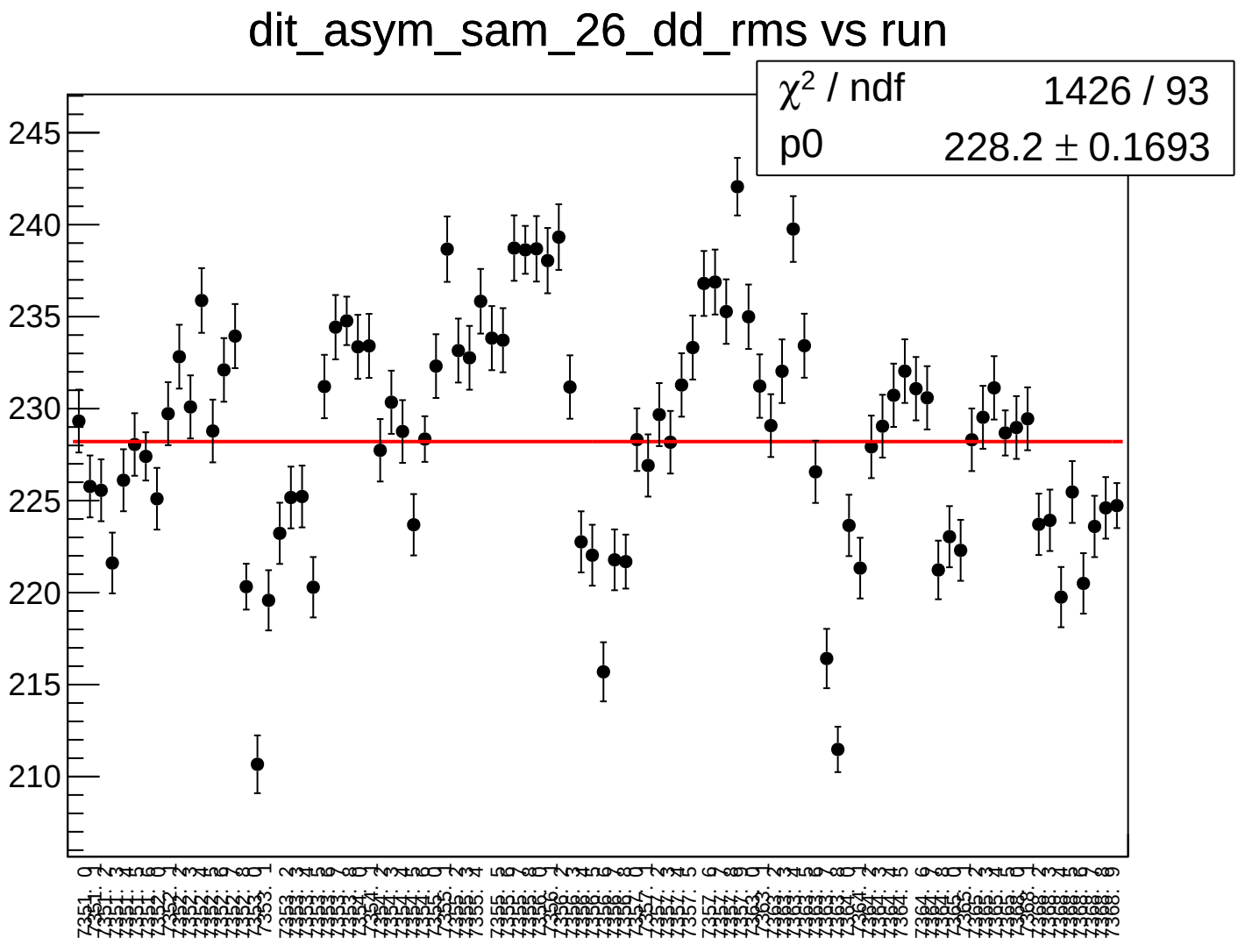

asym_sam_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 138.8 / 93
p0 1203 ± 1516
80000
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 199.9
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4

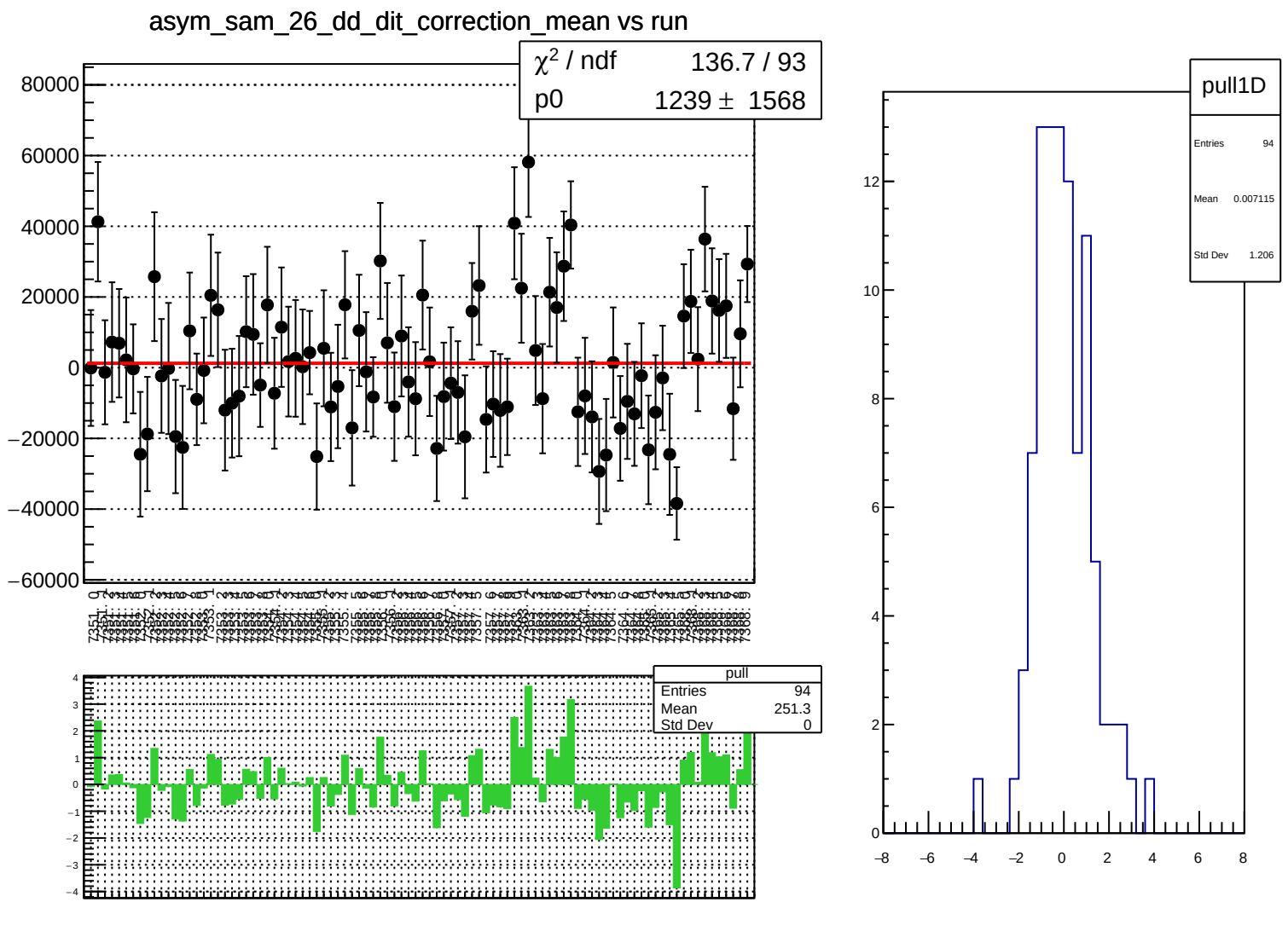

pull1D
Entries 94
Mean 0.009075
Std Dev 1.215
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

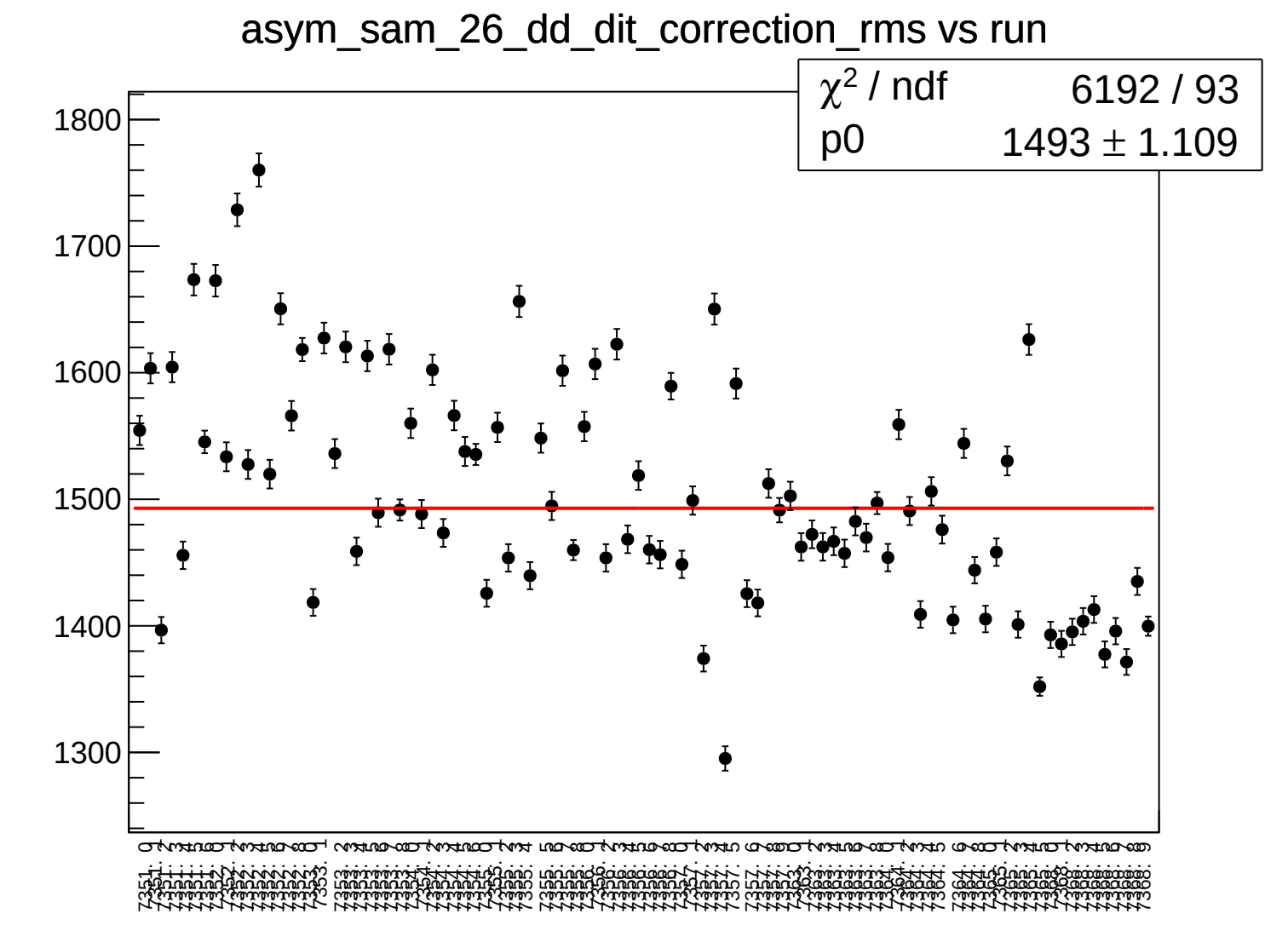

asym_sam_26_dd_eigen_cor_correction_rms vs run
χ^2 / ndf 6566 / 93
p0 1443 ± 1.072
1700
1600
1500
1400
1300
1200

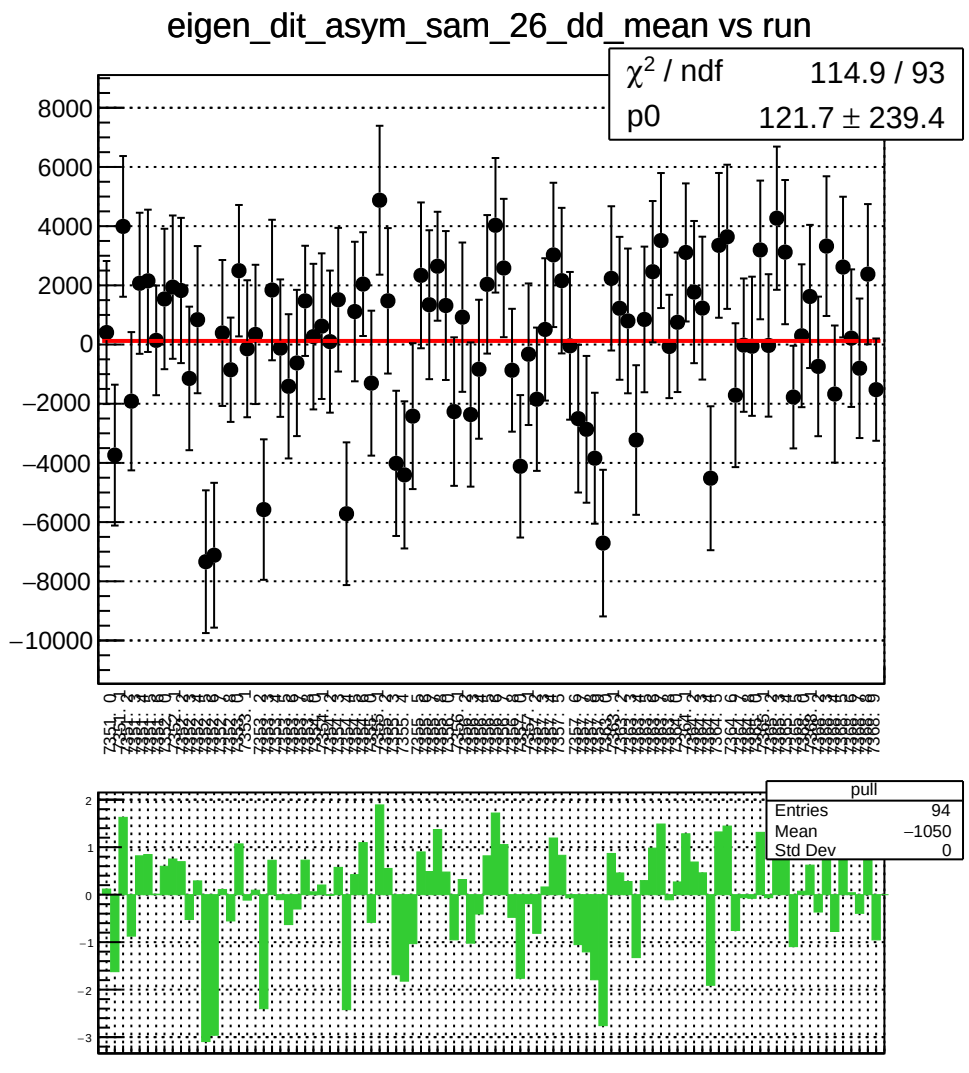

dit_asym_sam_26_dd_mean vs run
χ² / ndf 114.9 / 93
p0 121.7 ± 239.4
pull
Entries 94
Mean −1050
Std Dev 0

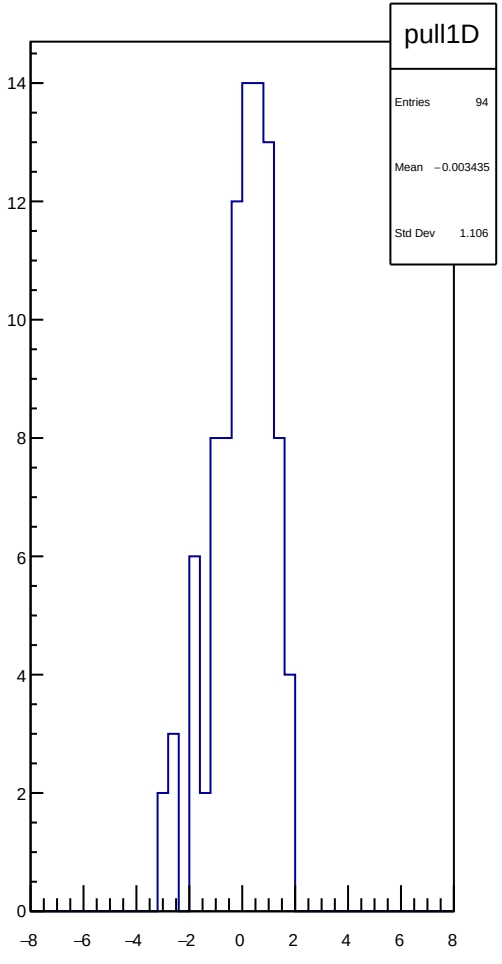

pull1D
Entries 94
Mean −0.003435
Std Dev 1.106

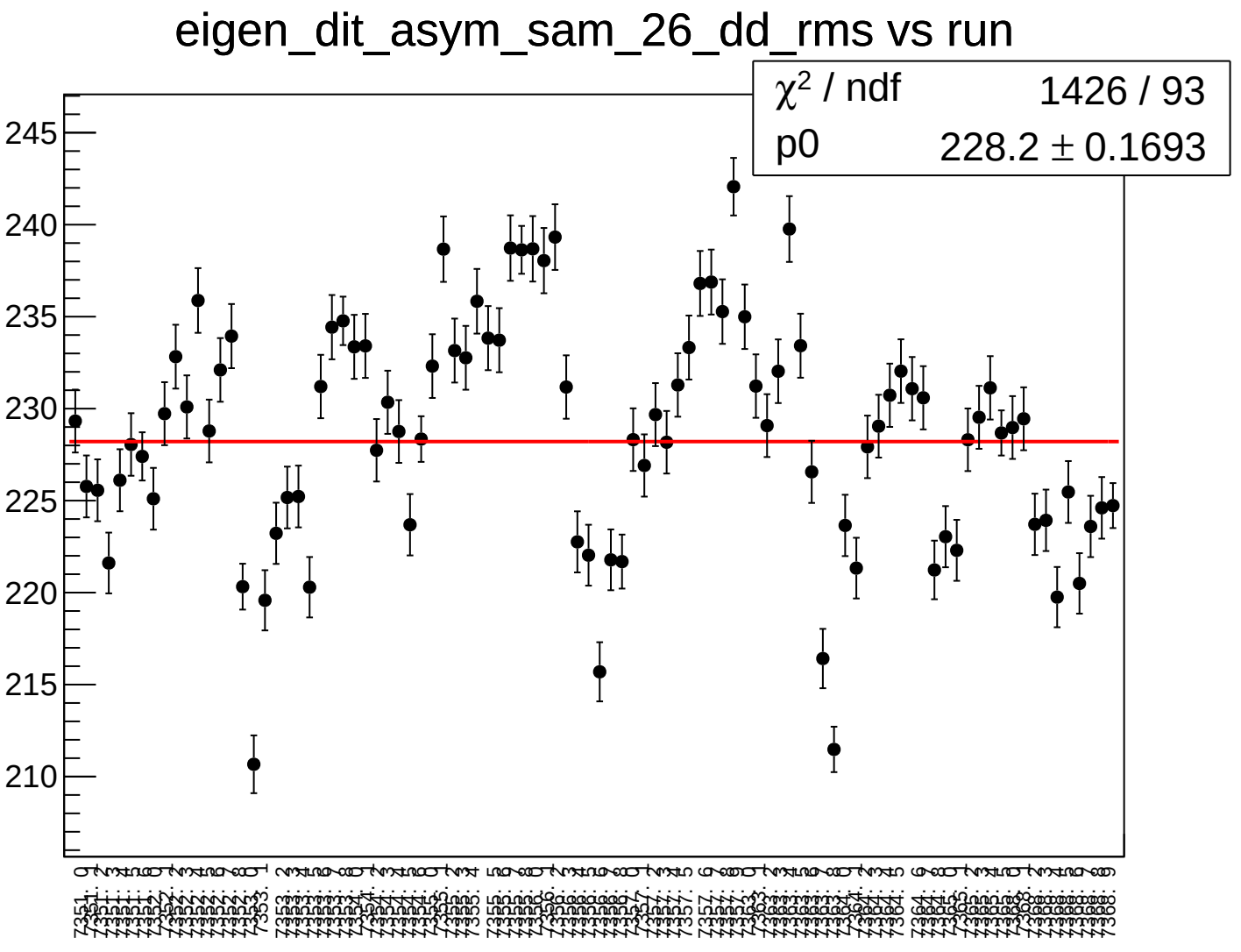

dit_asym_sam_26_dd_rms vs run
χ² / ndf 1426 / 93
p0 228.2 ± 0.1693
245
240
235
230
225
220
215
210

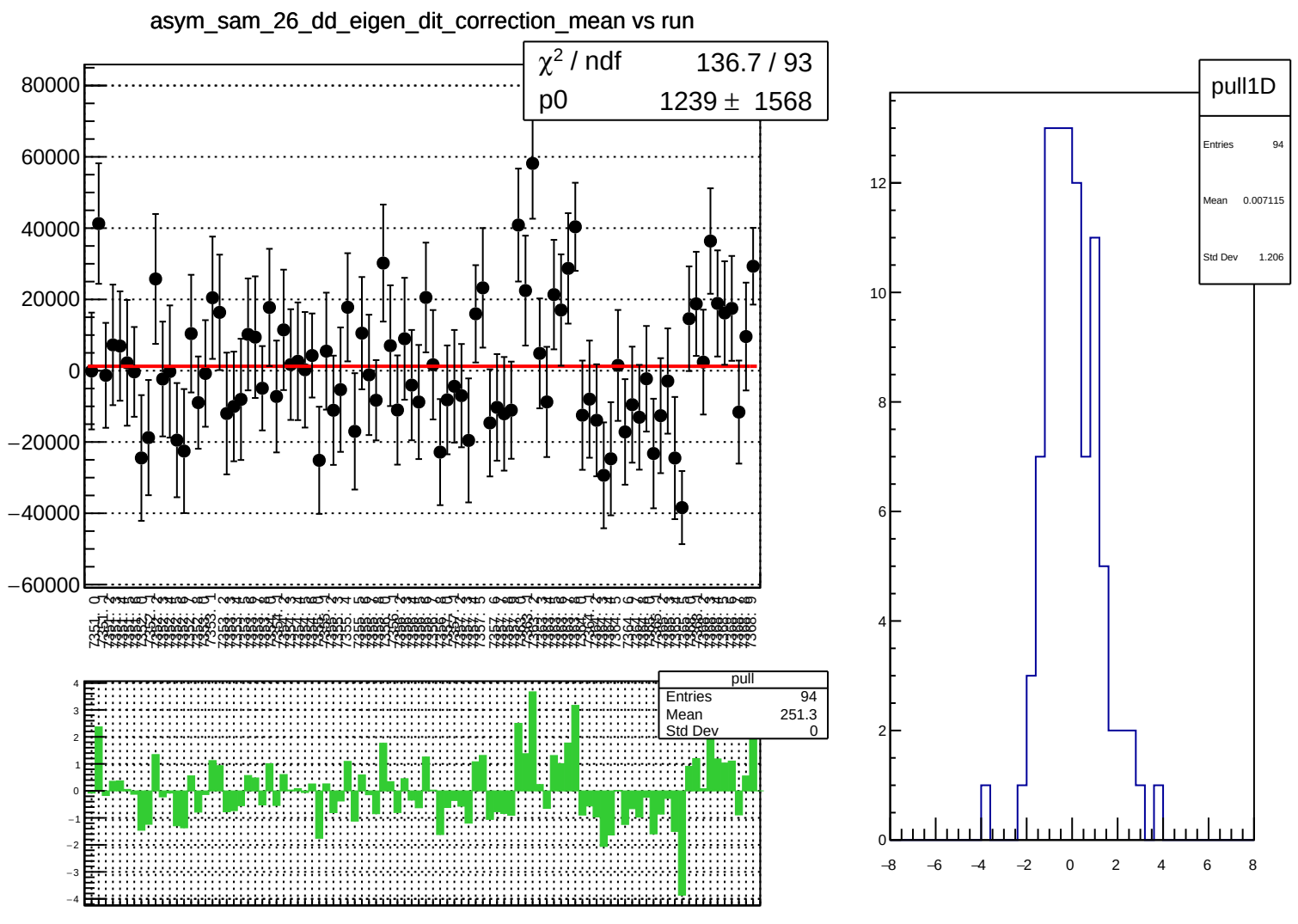

asym_sam_26_dd_dit_correction_mean vs run
χ² / ndf 136.7 / 93
p0 1239 ± 1568
pull
Entries 94
Mean 251.3
Std Dev 0
pull1D
Entries 94
Mean 0.007115
Std Dev 1.206

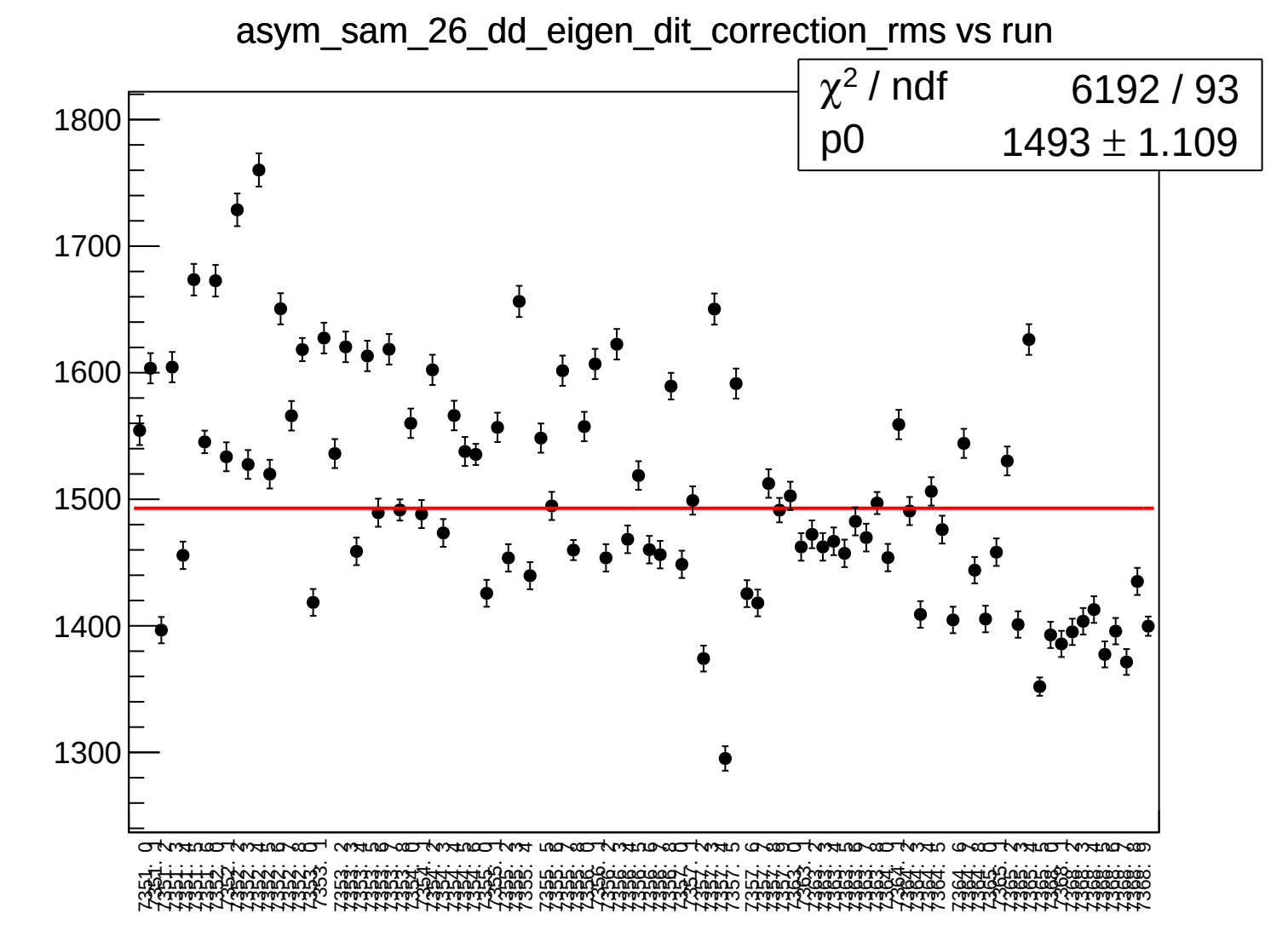

asym_sam_26_dd_dit_correction_rms vs run
χ² / ndf 6192 / 93
p0 1493 ± 1.109
1800
1700
1600
1500
1400
1300

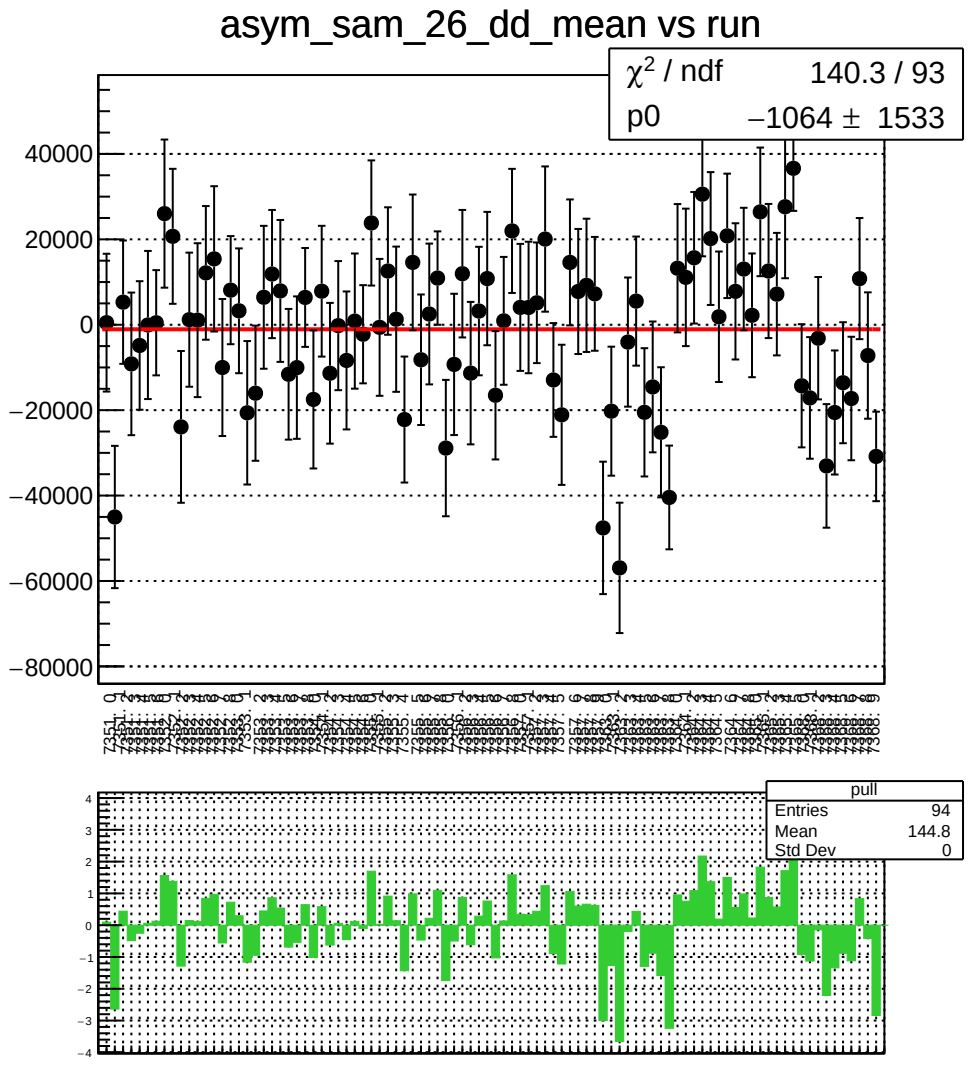

eigen_dit_asym_sam_26_dd_mean vs run
χ² / ndf 114.9 / 93
p0 121.7 ± 239.4
pull
Entries 94
Mean −1050
Std Dev 0

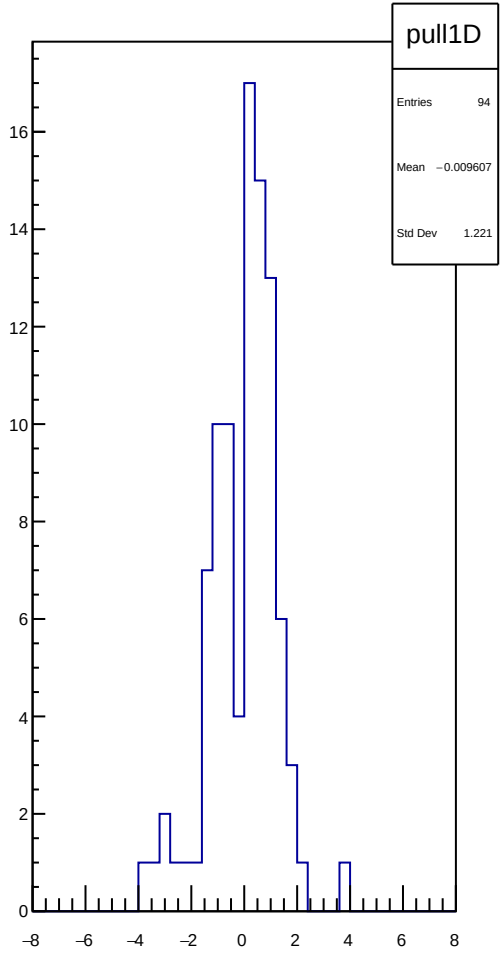

pull1D
Entries 94
Mean −0.003435
Std Dev 1.106

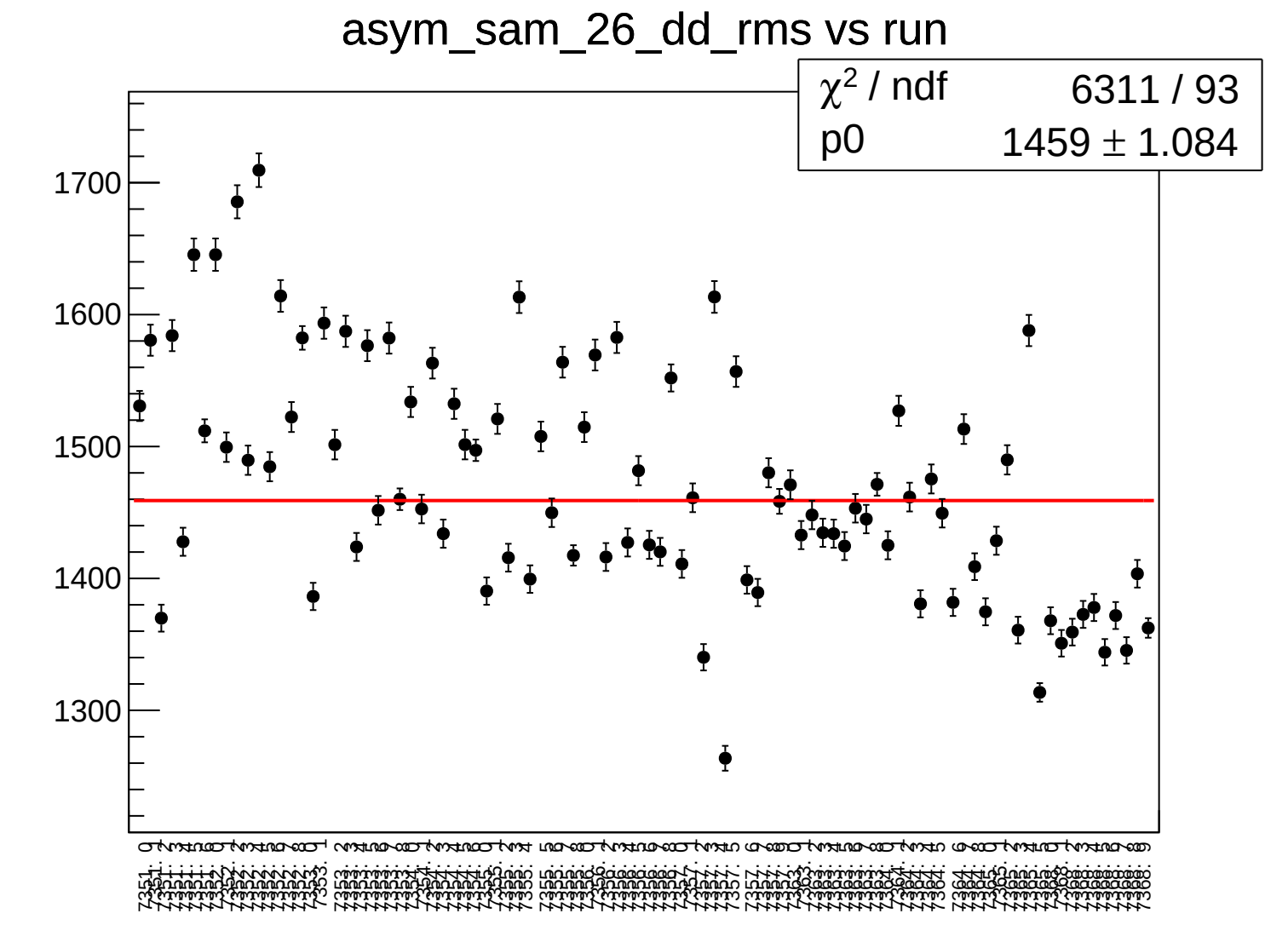

eigen_dit_asym_sam_26_dd_rms vs run
χ^2 / ndf 1426 / 93
p0 228.2 ± 0.1693
245
240
235
230
225
220
215
210

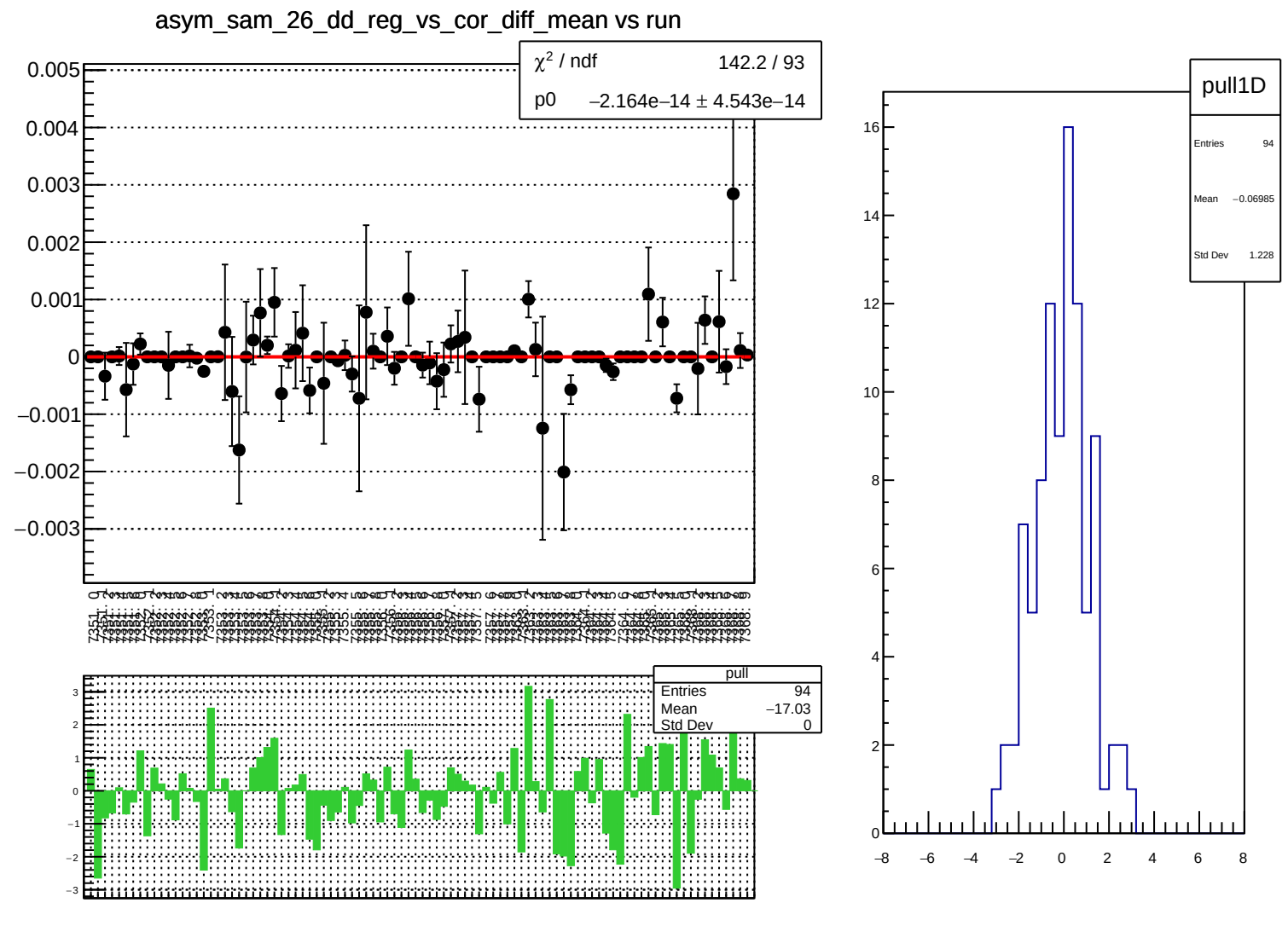

asym_sam_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 136.7 / 93
p0 1239 ± 1568
pull
Entries 94
Mean 251.3
Std Dev 0
pull1D
Entries 94
Mean 0.007115
Std Dev 1.206

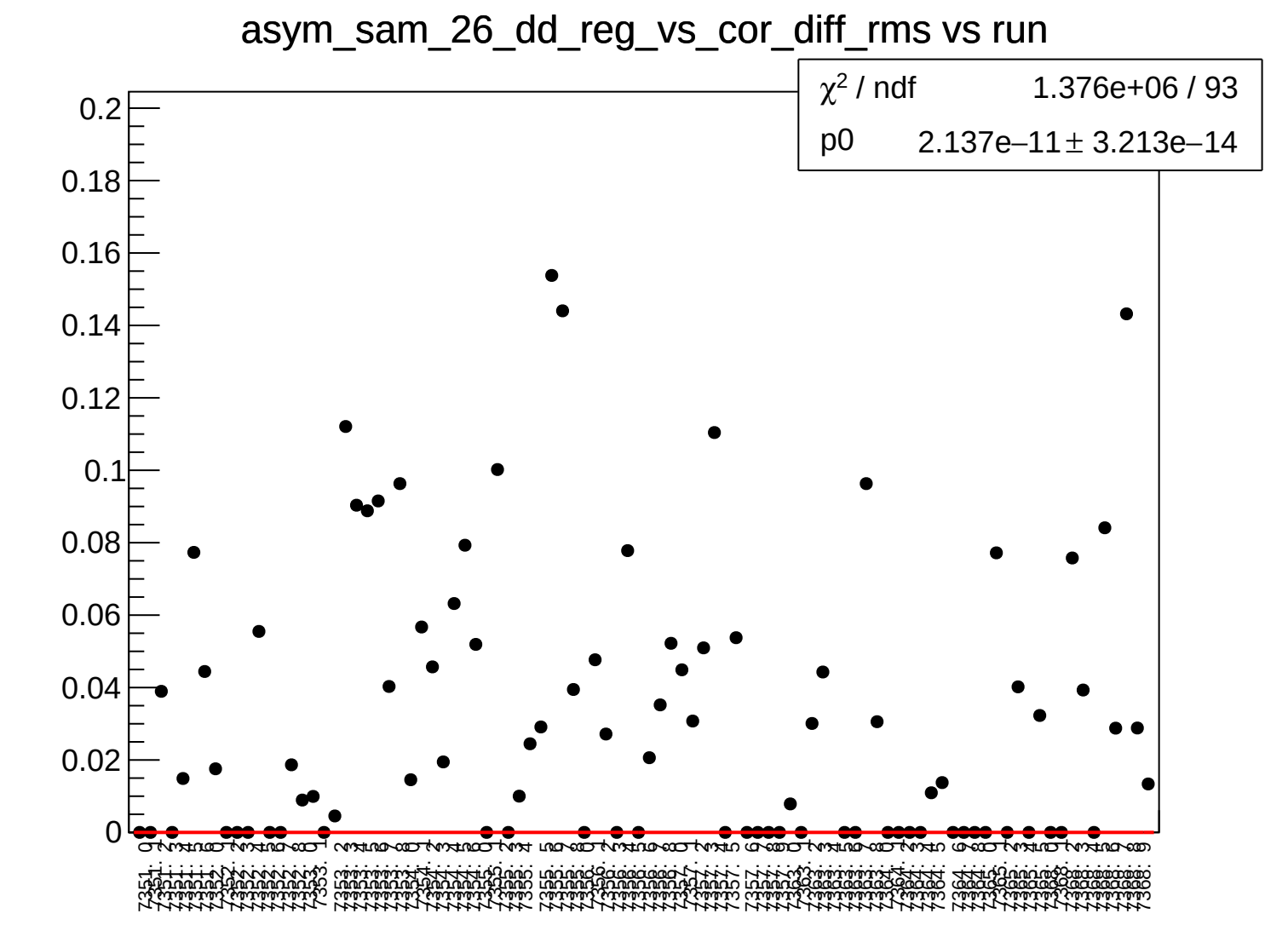

asym_sam_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 6192 / 93
p0 1493 ± 1.109
1800
1700
1600
1500
1400
1300

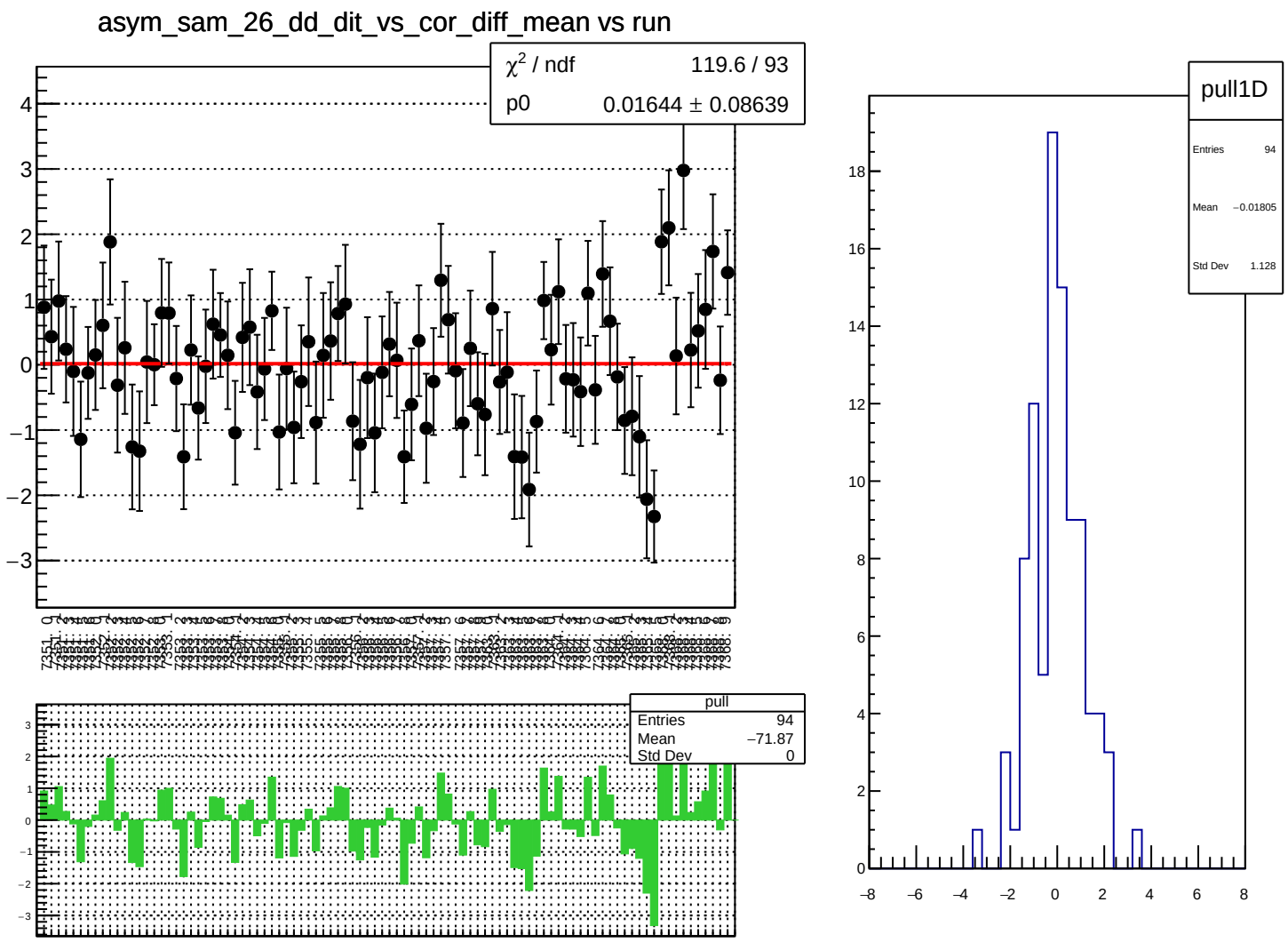

asym_sam_26_dd_mean vs run
χ² / ndf 140.3 / 93
p0 −1064 ± 1533
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean 144.8
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4

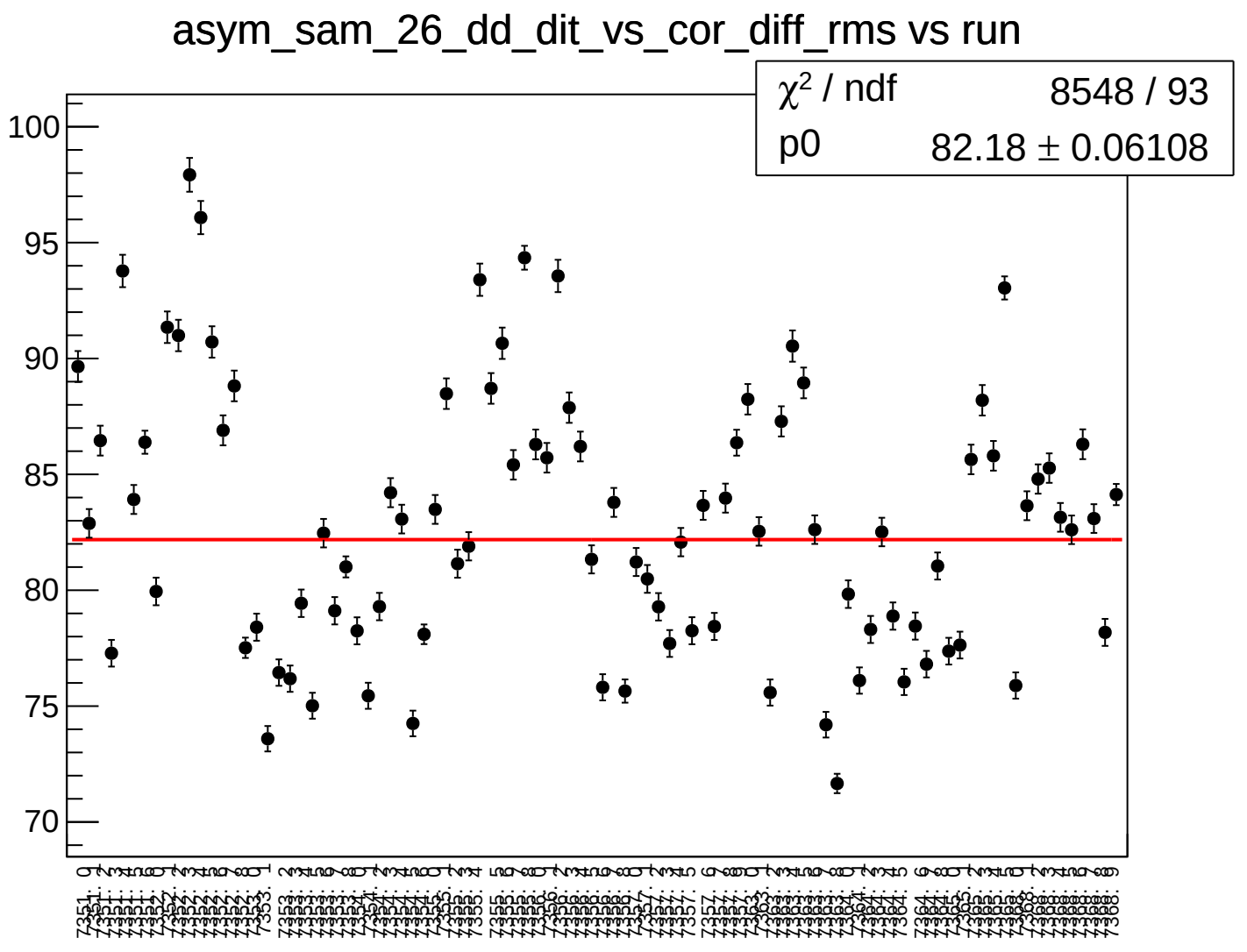

pull1D
Entries 94
Mean −0.009607
Std Dev 1.221
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

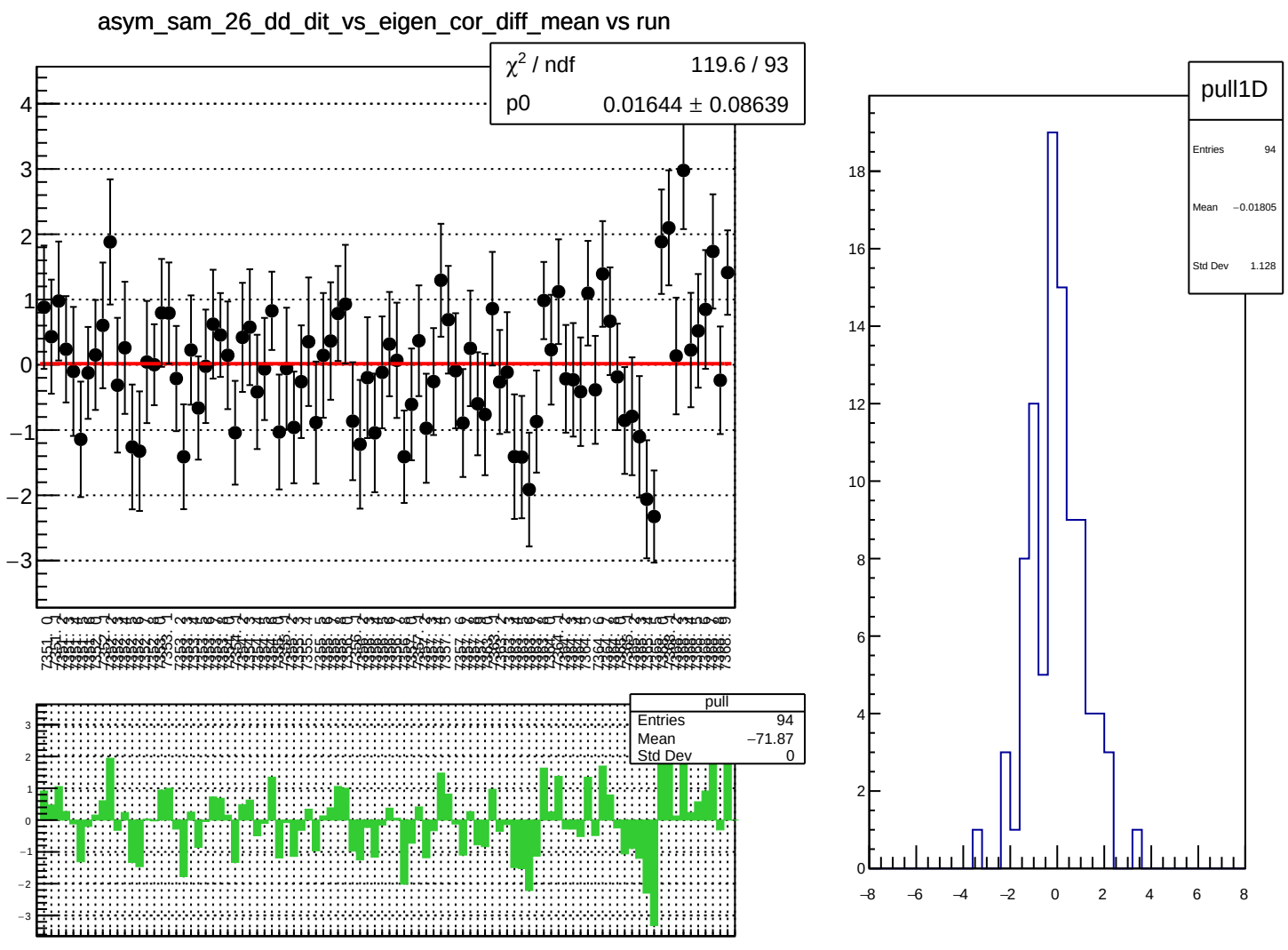

asym_sam_26_dd_rms vs run
χ^2 / ndf 6311 / 93
p0 1459 ± 1.084
1700
1600
1500
1400
1300

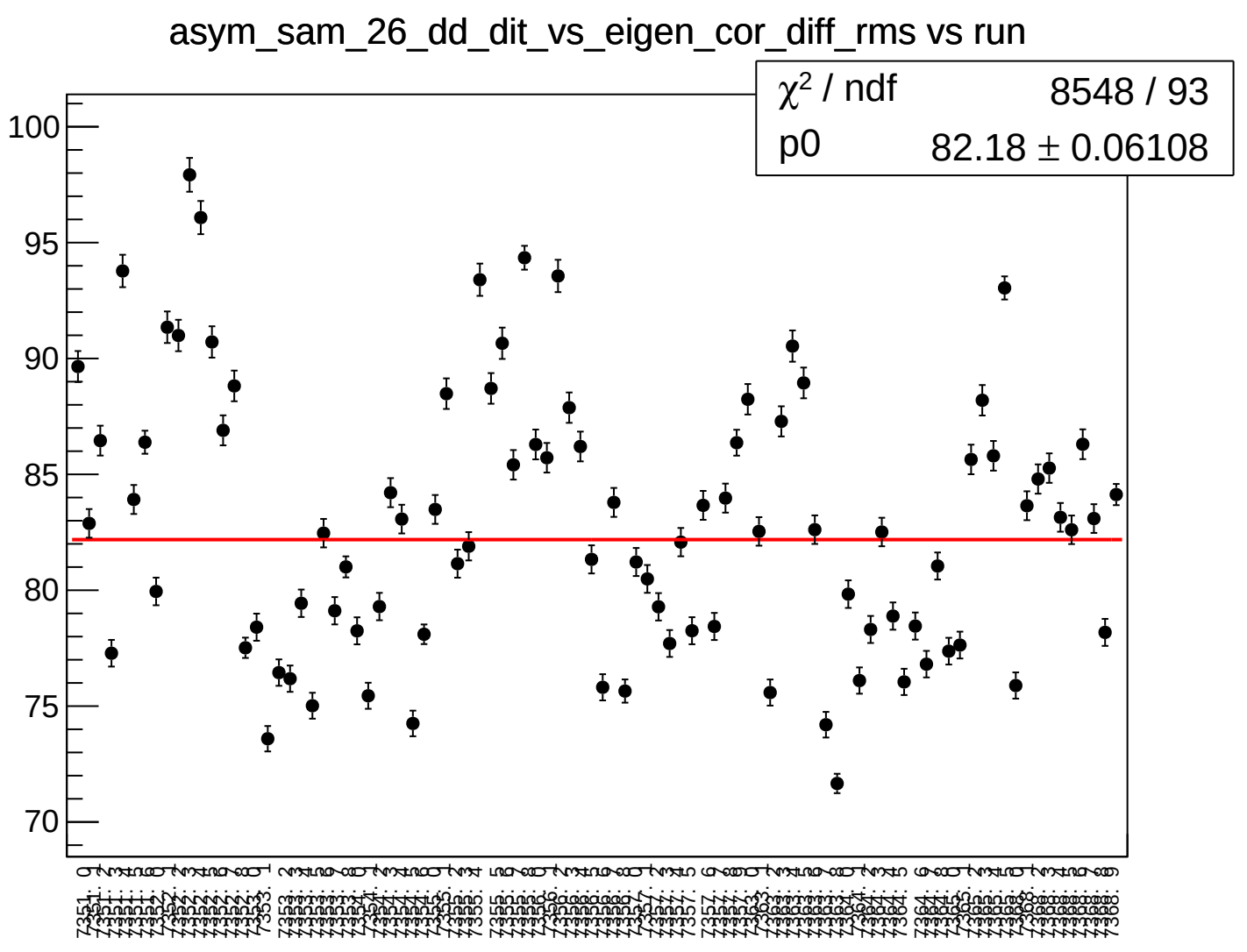

asym_sam_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 142.2 / 93
p0 −2.164e−14 ± 4.543e−14
0.005
0.004
0.003
0.002
0.001
0
−0.001
−0.002
−0.003
pull
Entries 94
Mean −17.03
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.06985
Std Dev 1.228
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

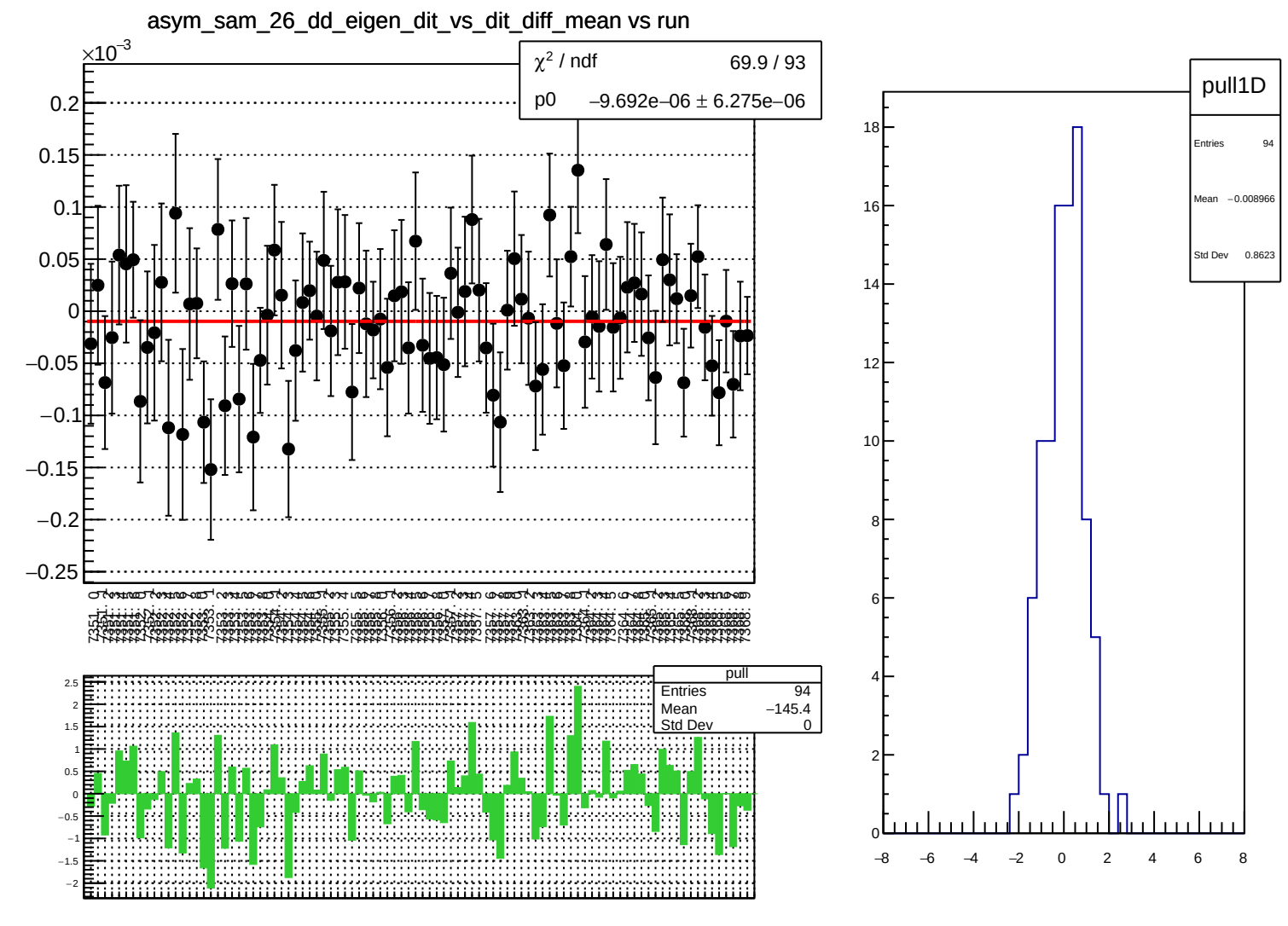

asym_sam_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.376e+06 / 93
p0 2.137e−11 ± 3.213e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

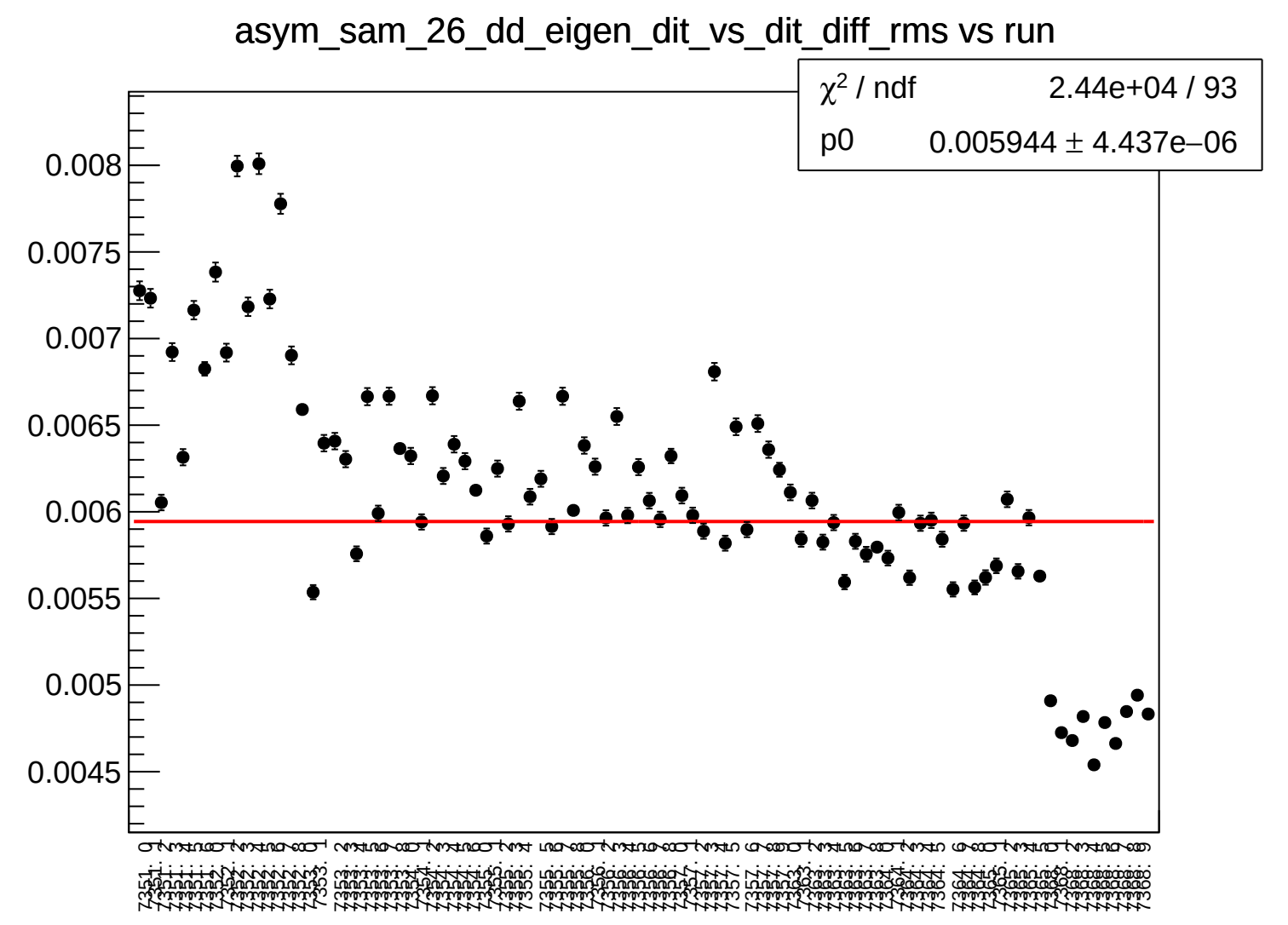

asym_sam_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 119.6 / 93
p0 0.01644 ± 0.08639
pull
Entries 94
Mean −71.87
Std Dev 0
pull1D
Entries 94
Mean −0.01805
Std Dev 1.128

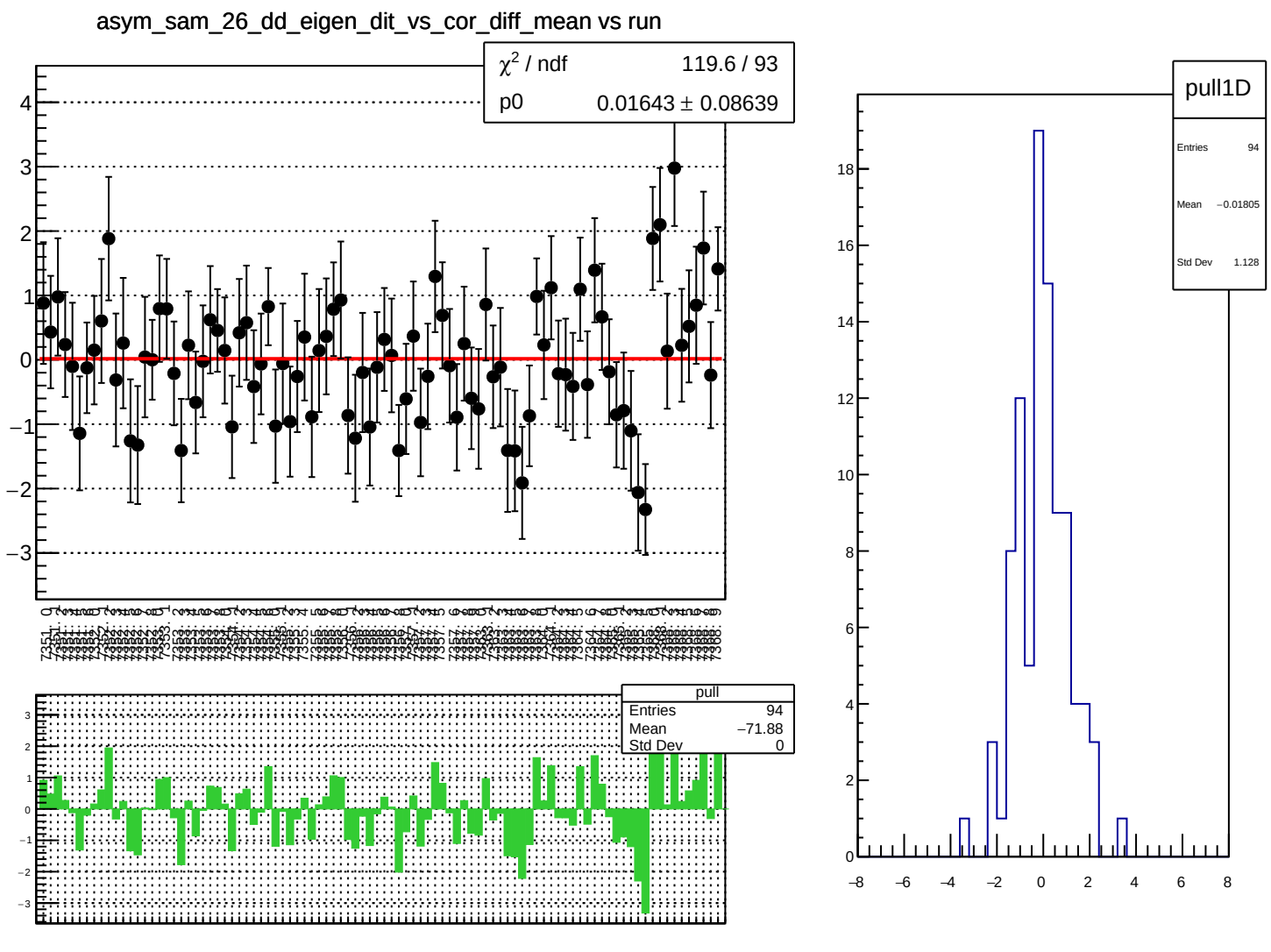

asym_sam_26_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 8548 / 93
p0 82.18 ± 0.06108
100
95
90
85
80
75
70

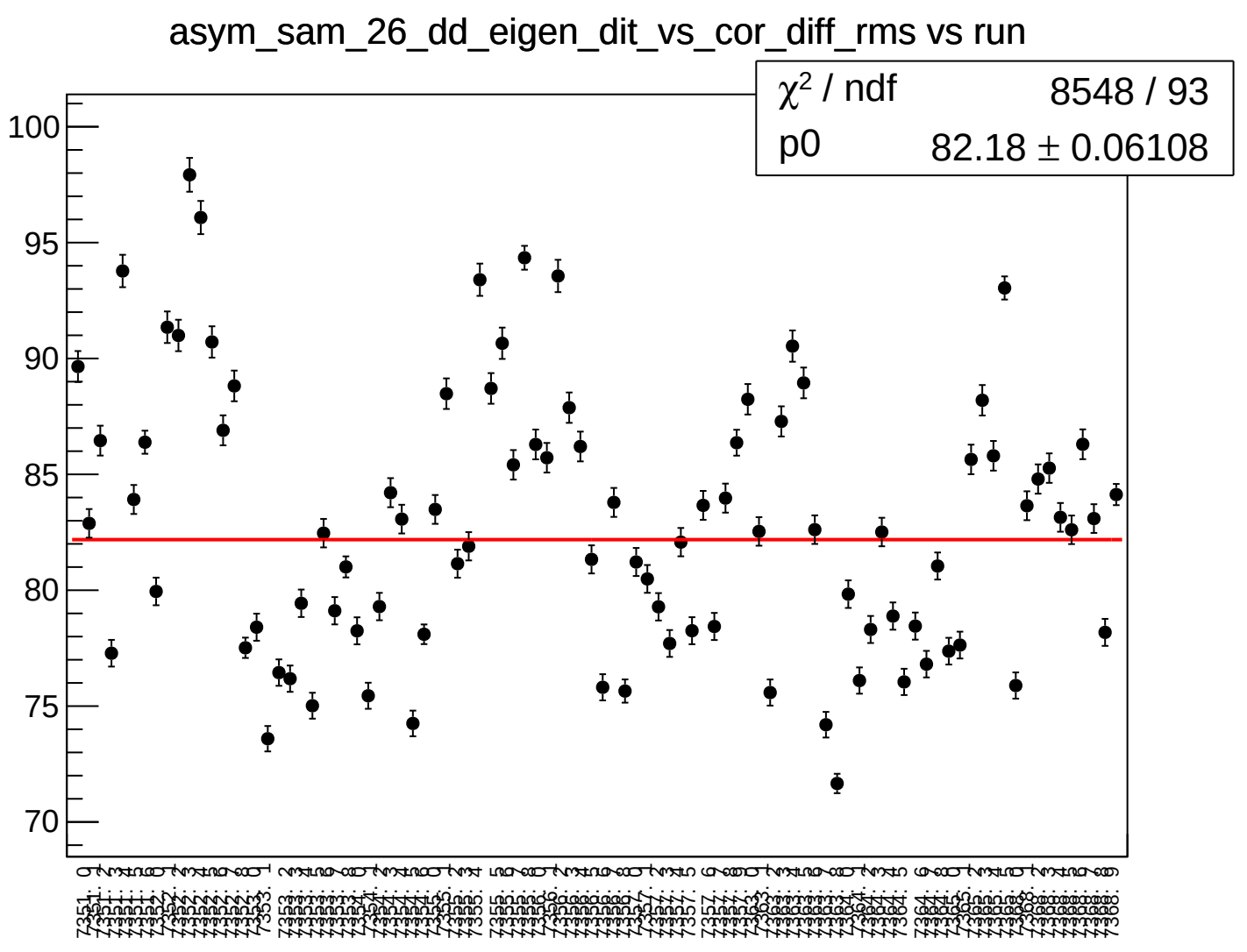

asym_sam_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 119.6 / 93
p0 0.01644 ± 0.08639
pull
Entries 94
Mean −71.87
Std Dev 0
pull1D
Entries 94
Mean −0.01805
Std Dev 1.128

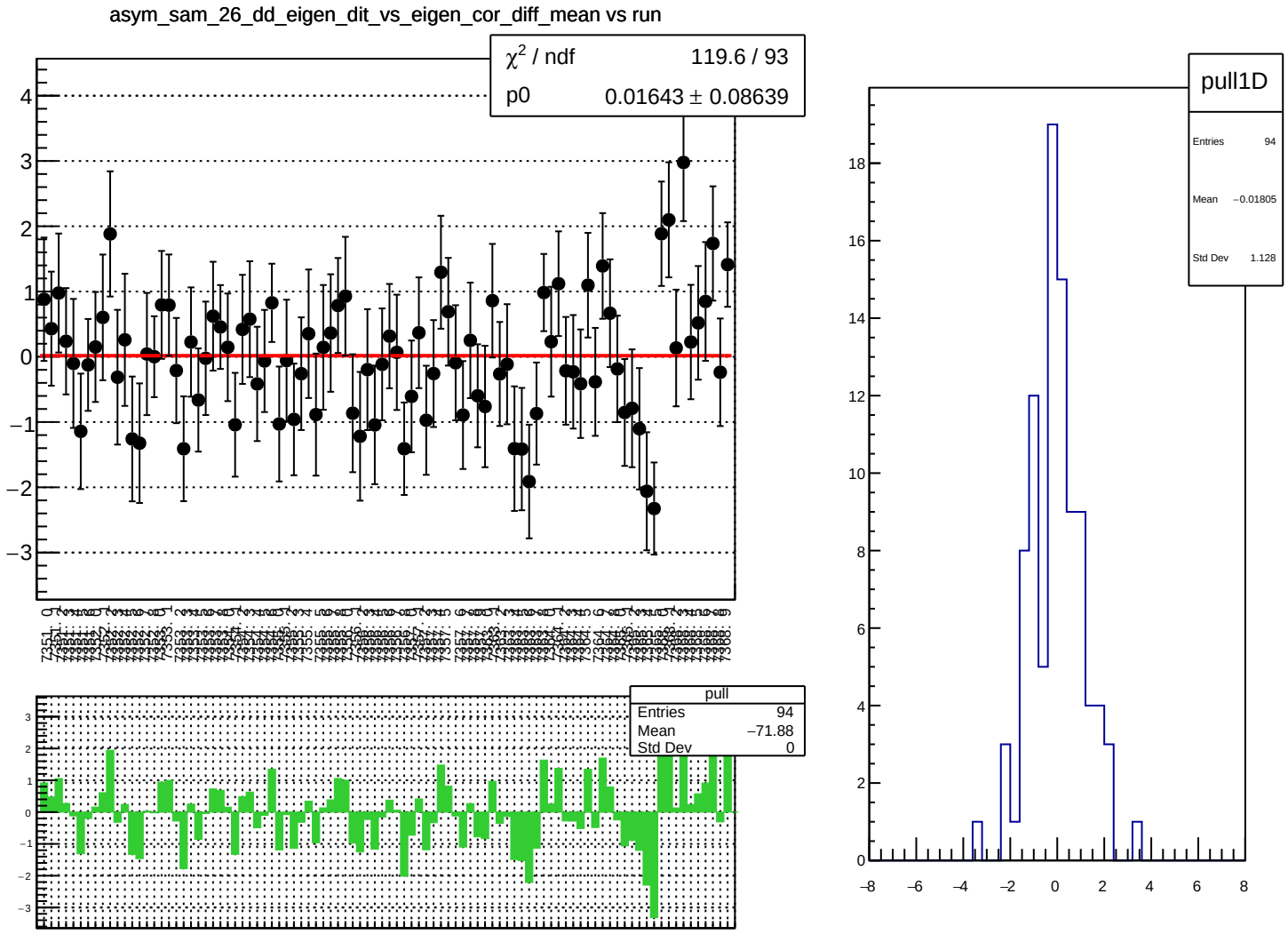

asym_sam_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8548 / 93
p0 82.18 ± 0.06108
100
95
90
85
80
75
70

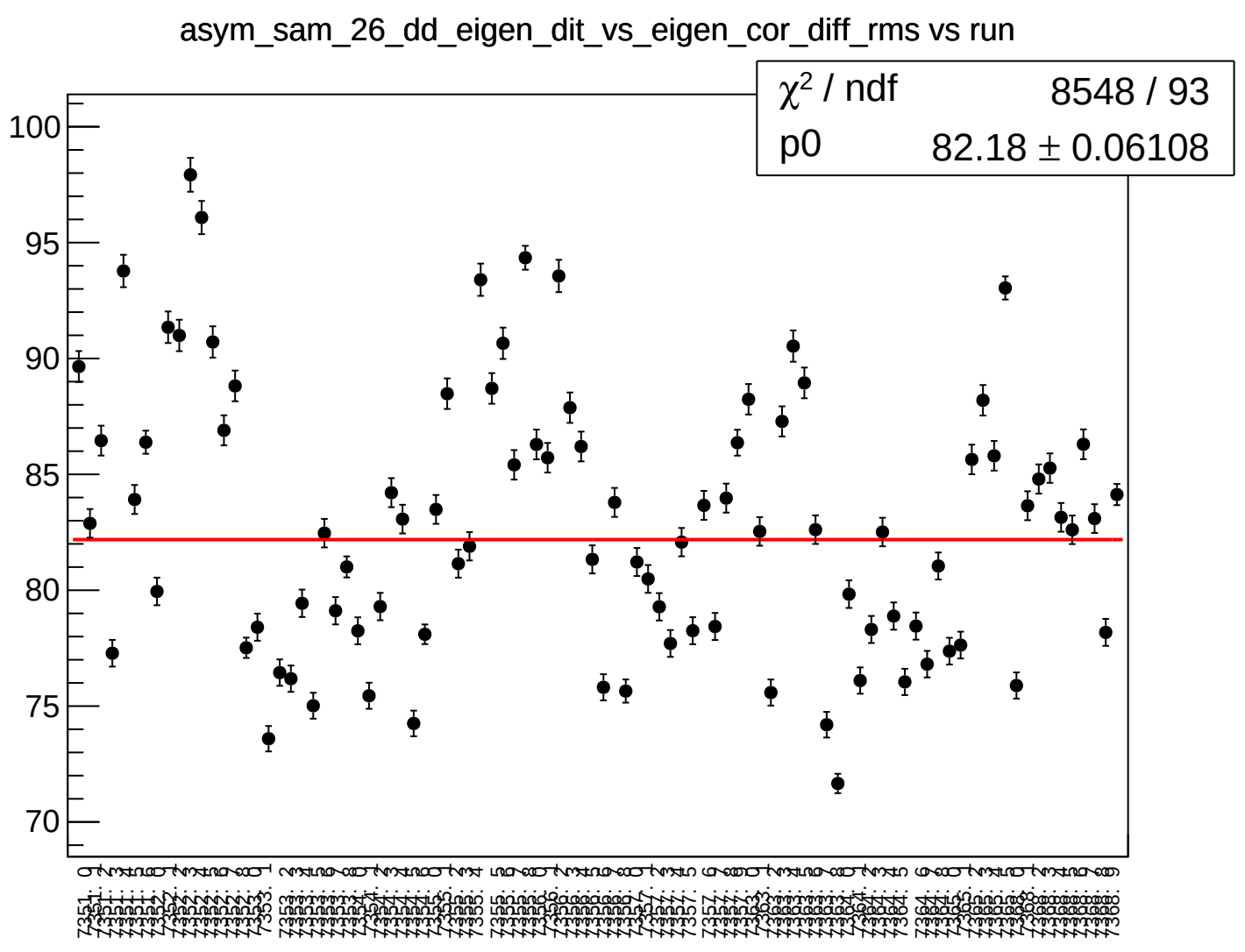

asym_sam_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 69.9 / 93
p0 −9.692e−06 ± 6.275e−06
pull
Entries 94
Mean −145.4
Std Dev 0
pull1D
Entries 94
Mean −0.008966
Std Dev 0.8623

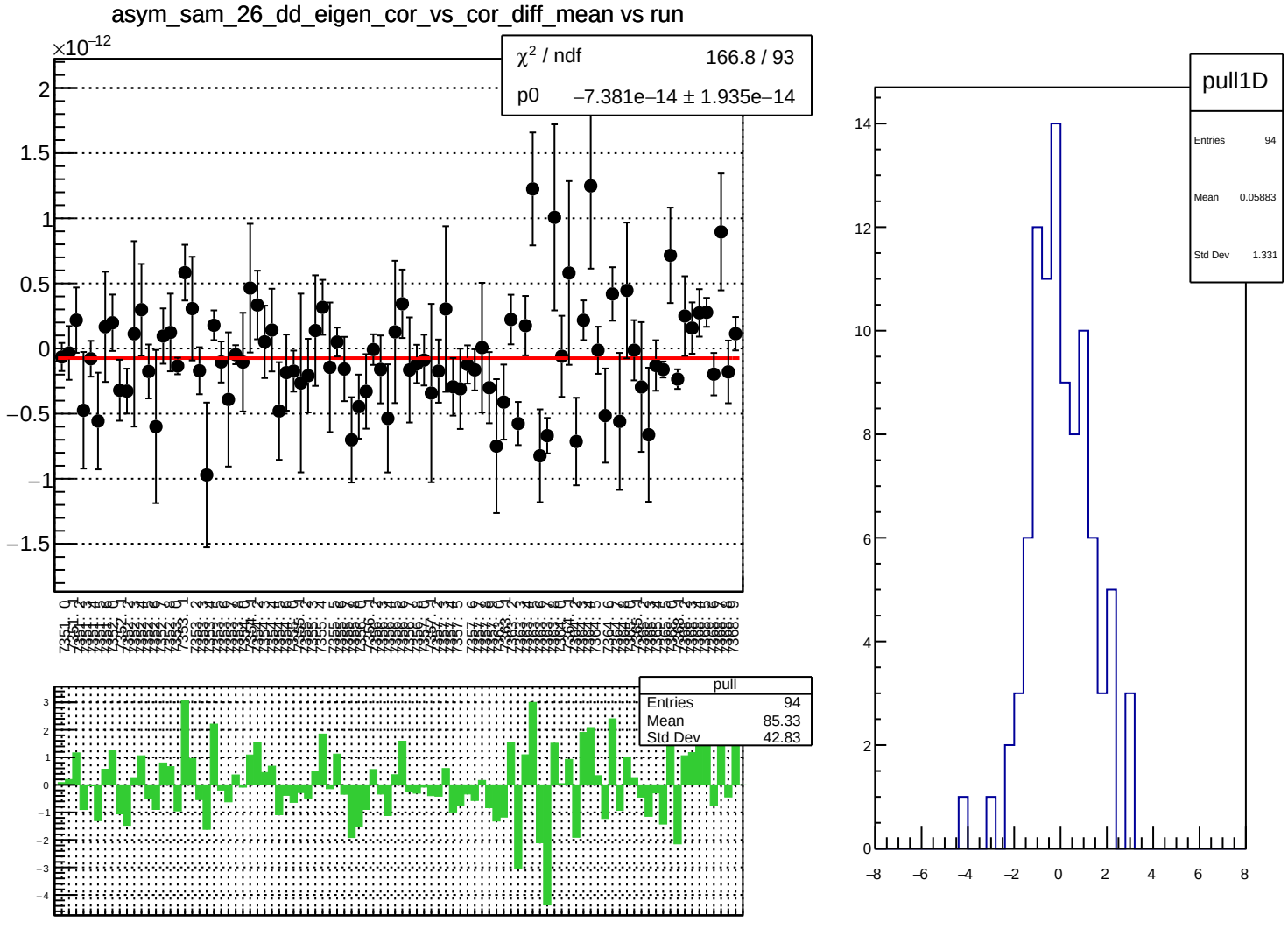

asym_sam_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.44e+04 / 93
p0 0.005944 ± 4.437e−06
0.008
0.0075
0.007
0.0065
0.006
0.0055
0.005
0.0045

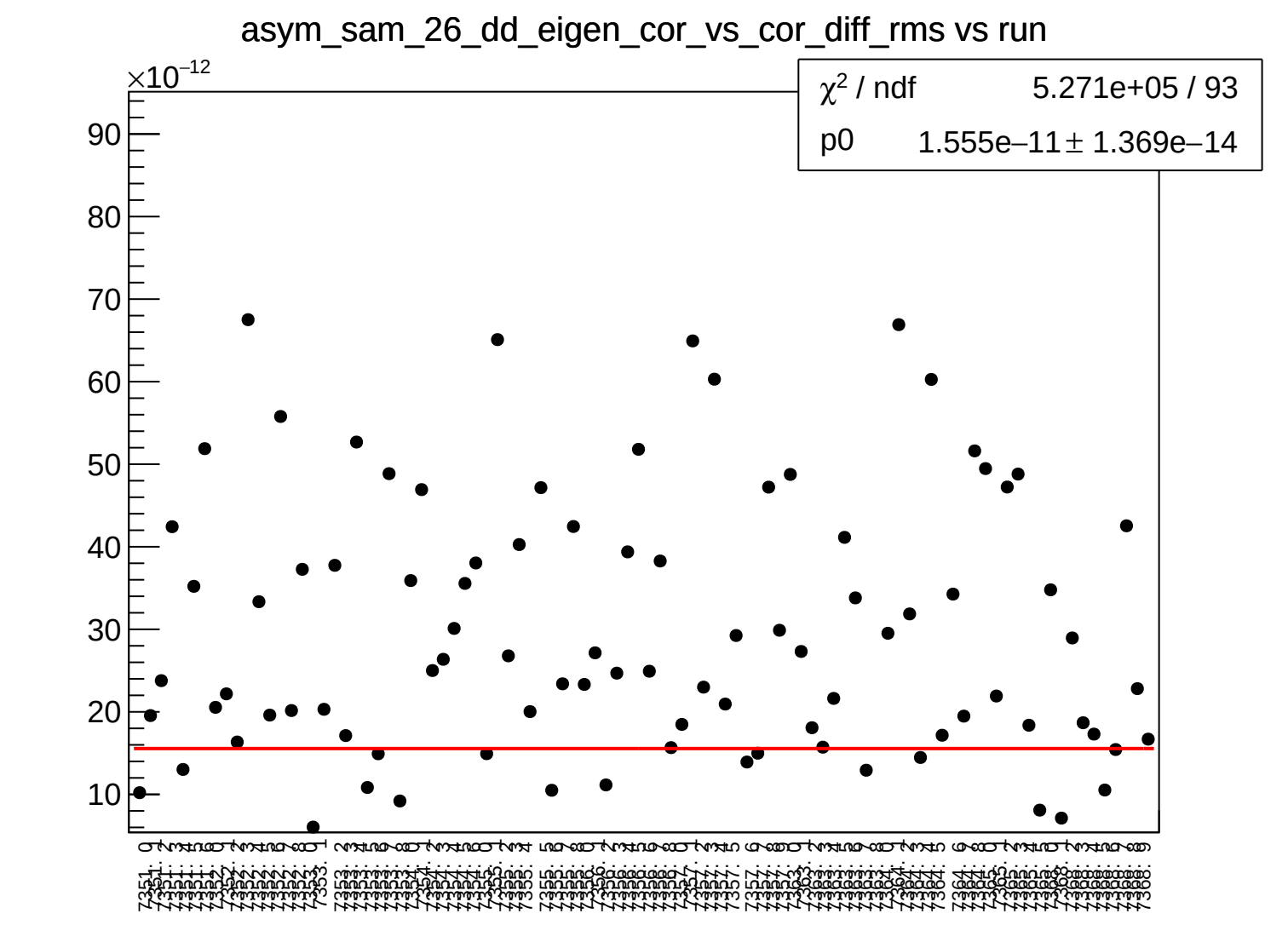

asym_sam_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 119.6 / 93
p0 0.01643 ± 0.08639
pull
Entries 94
Mean −71.88
Std Dev 0
pull1D
Entries 94
Mean −0.01805
Std Dev 1.128

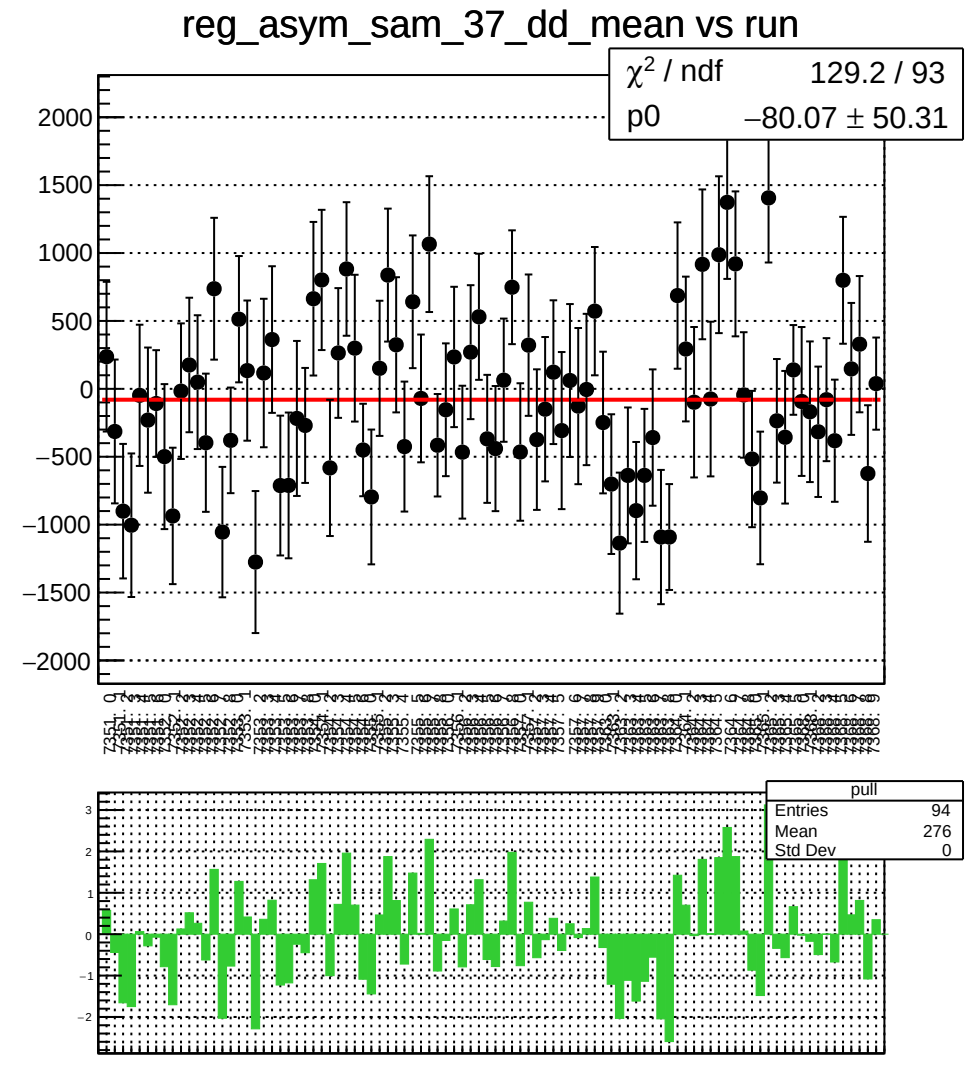

asym_sam_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8548 / 93
p0 82.18 ± 0.06108
100
95
90
85
80
75
70

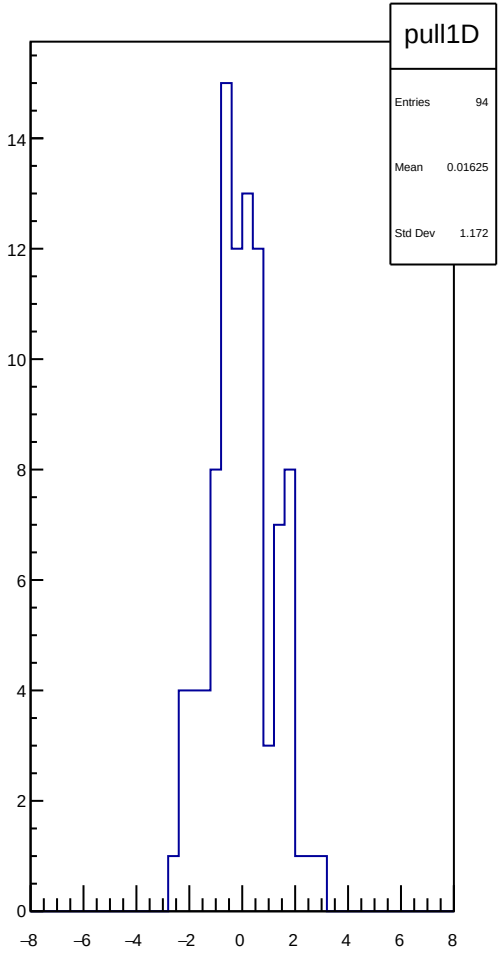

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 119.6 / 93
p0 0.01643 ± 0.08639
pull
Entries 94
Mean −71.88
Std Dev 0
pull1D
Entries 94
Mean −0.01805
Std Dev 1.128

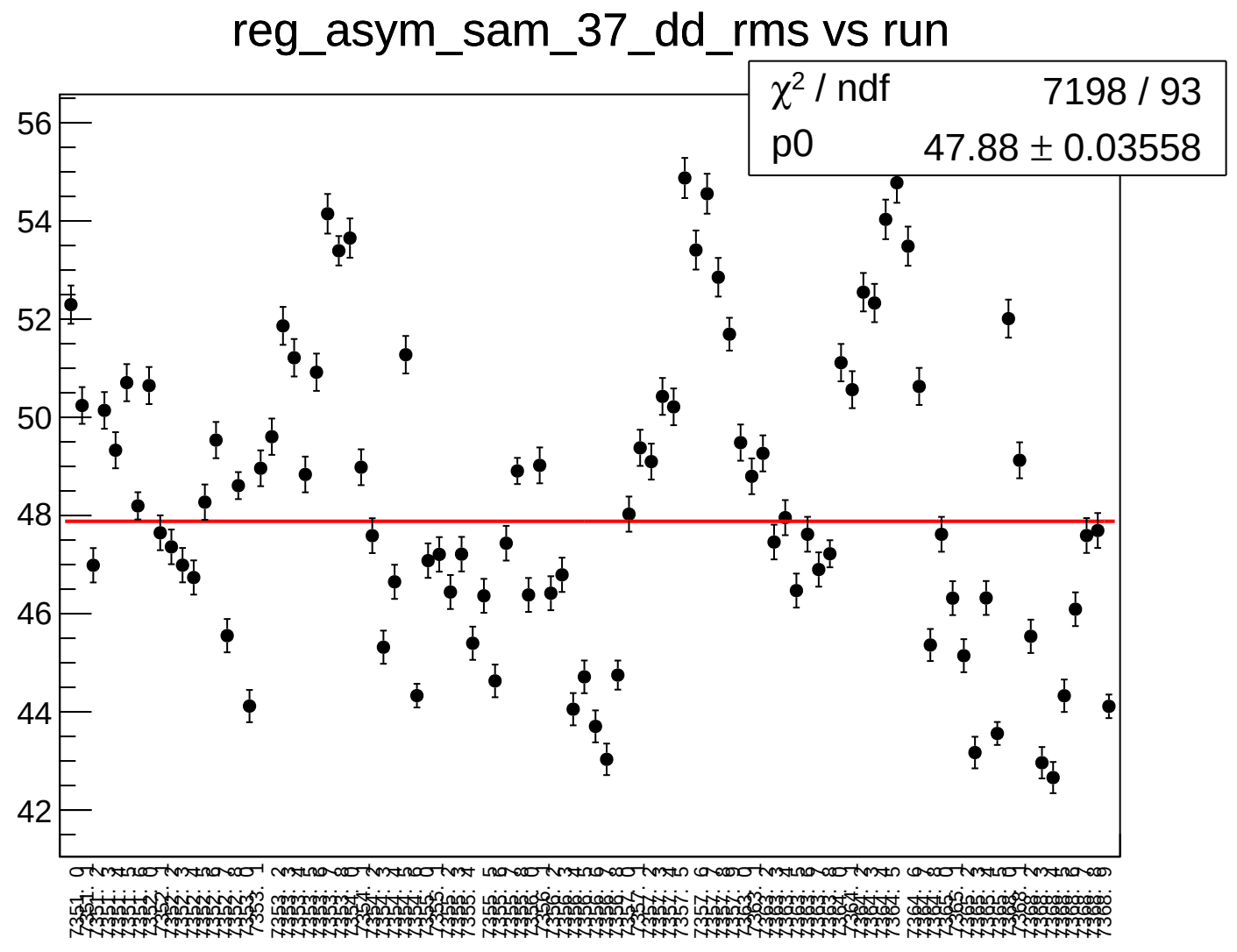

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8548 / 93
p0 82.18 ± 0.06108
100
95
90
85
80
75
70

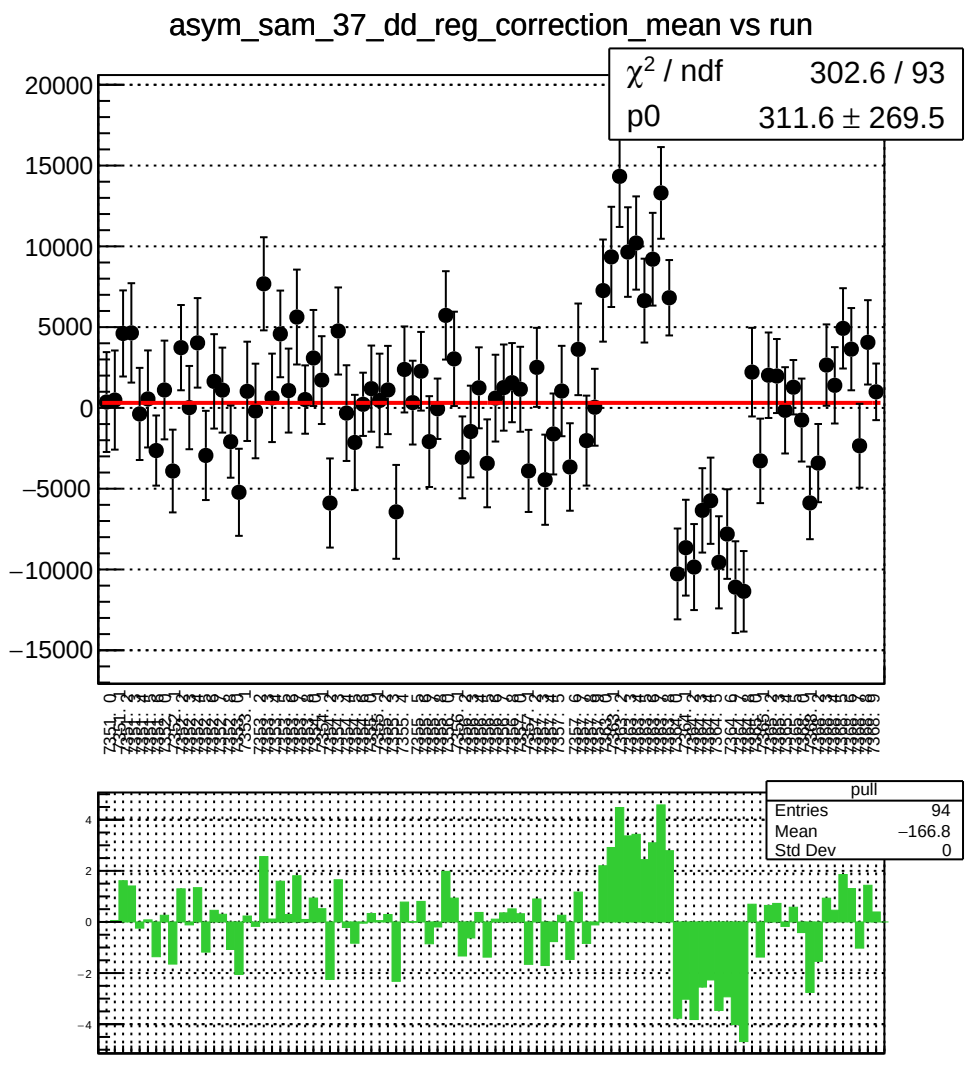

asym_sam_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 166.8 / 93
p0 −7.381e−14 ± 1.935e−14
pull
Entries 94
Mean 85.33
Std Dev 42.83
pull1D
Entries 94
Mean 0.05883
Std Dev 1.331

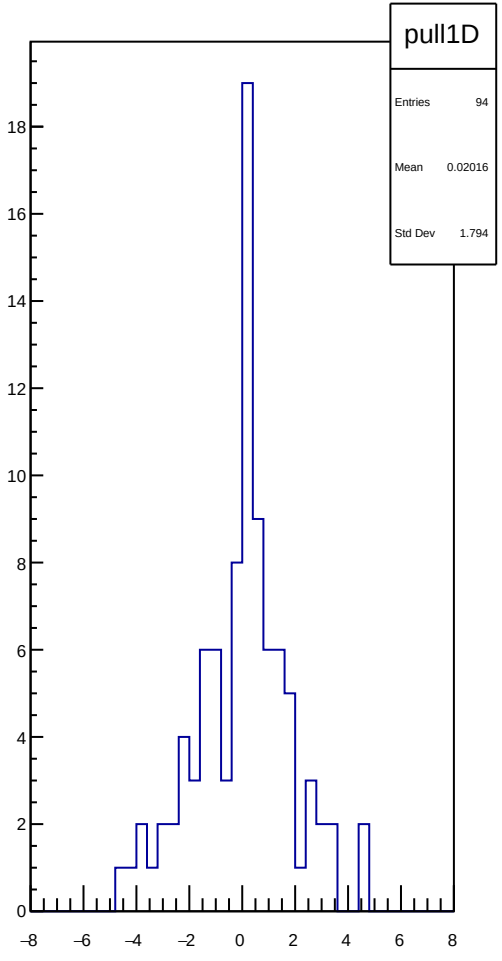

asym_sam_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.271e+05 / 93
p0 1.555e−11 ± 1.369e−14
90
80
70
60
50
40
30
20
10

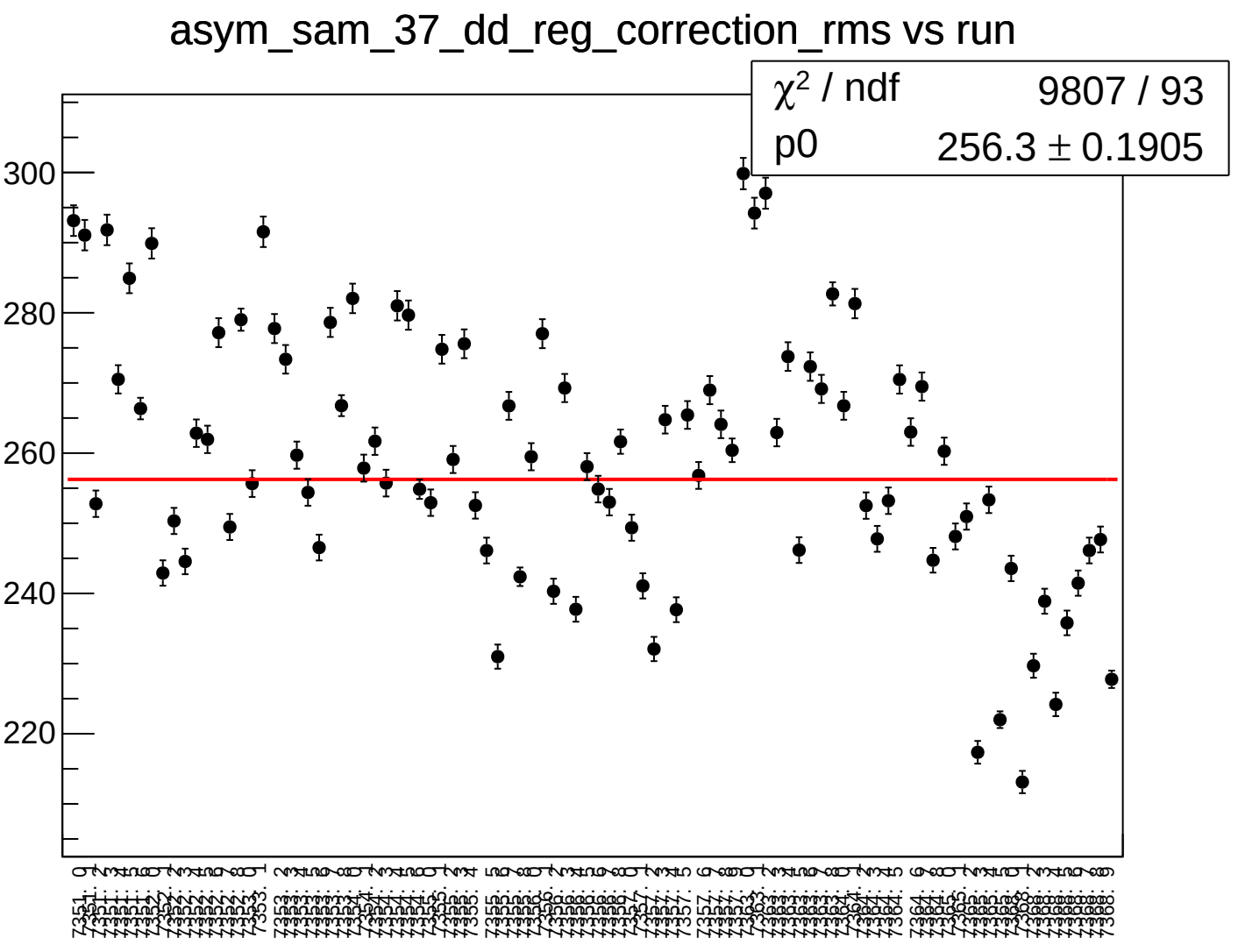

reg_asym_sam_37_dd_mean vs run
χ² / ndf 129.2 / 93
p0 −80.07 ± 50.31
pull
Entries 94
Mean 276
Std Dev 0

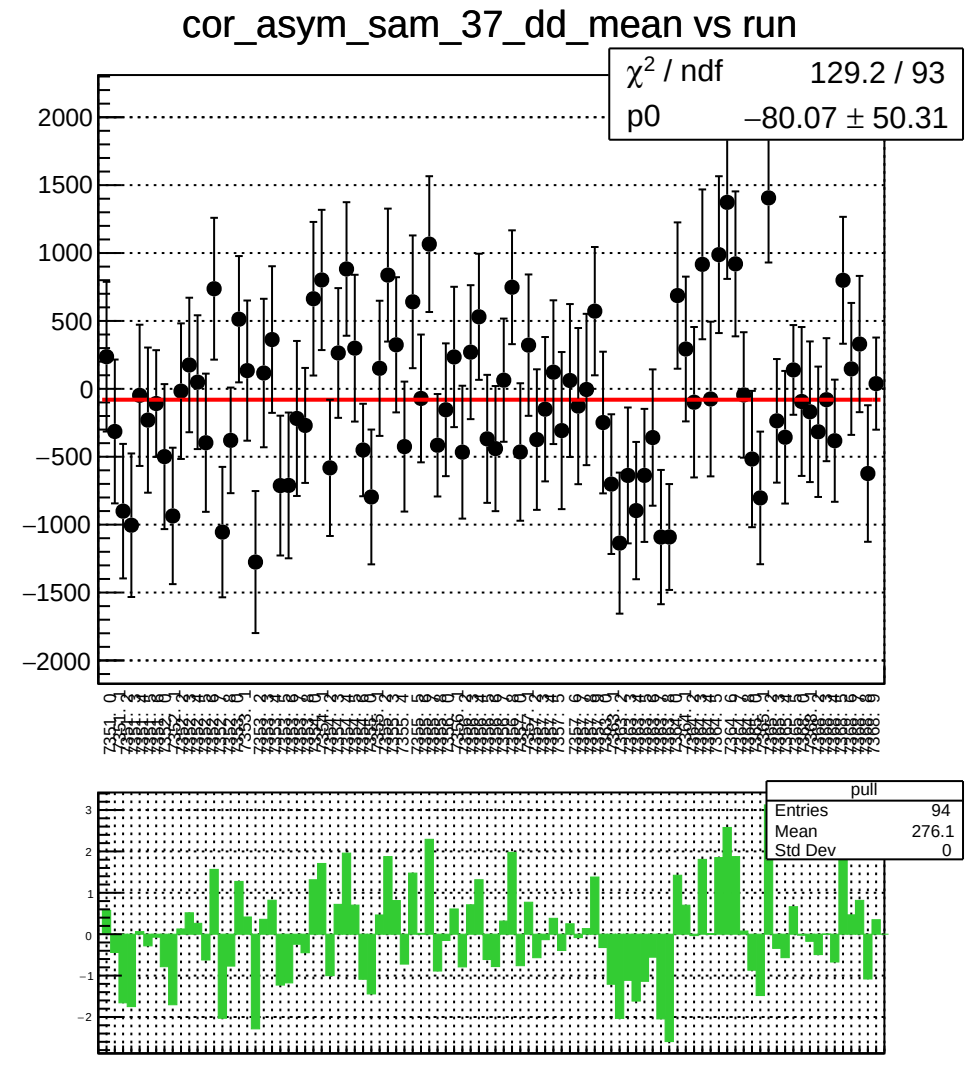

pull1D
Entries 94
Mean 0.01625
Std Dev 1.172

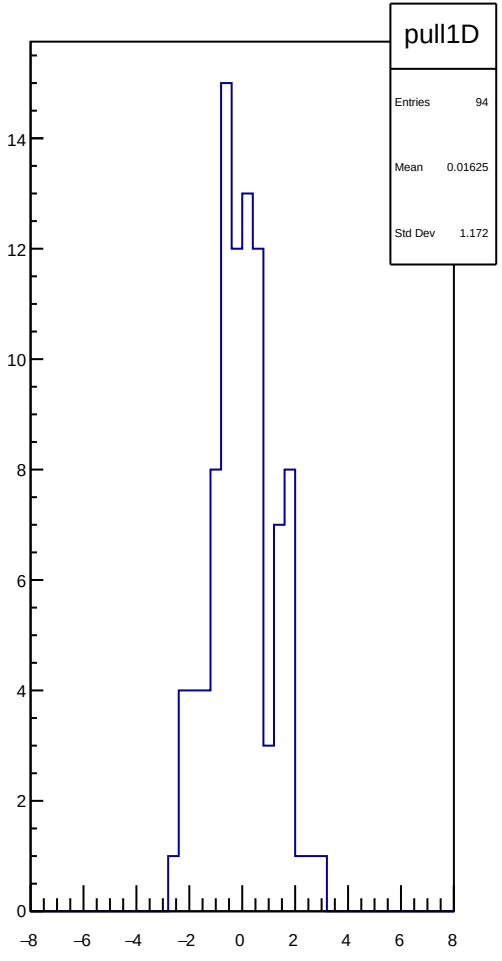

reg_asym_sam_37_dd_rms vs run
χ² / ndf 7198 / 93
p0 47.88 ± 0.03558
56
54
52
50
48
46
44
42

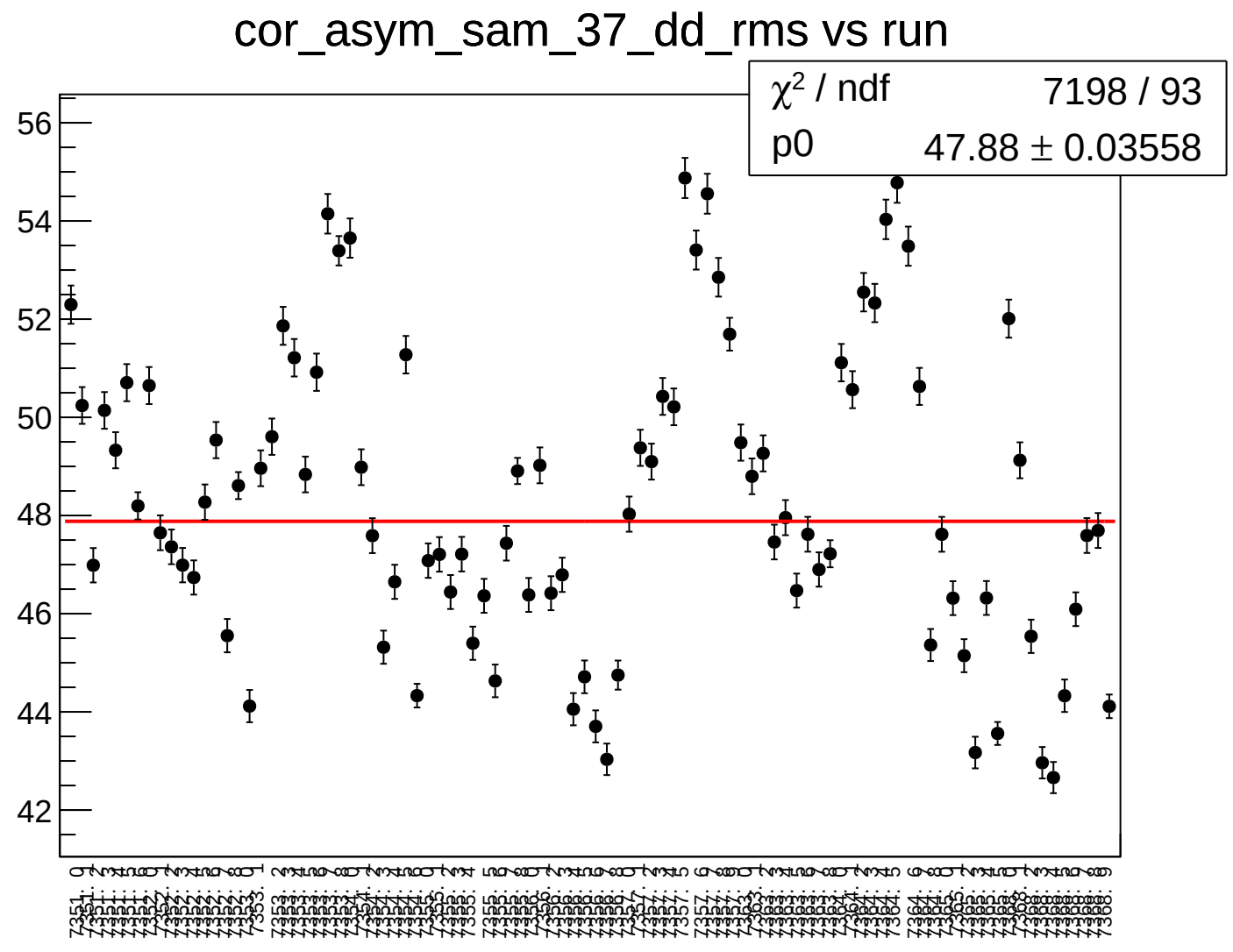

asym_sam_37_dd_reg_correction_mean vs run
χ² / ndf 302.6 / 93
p0 311.6 ± 269.5
pull
Entries 94
Mean −166.8
Std Dev 0

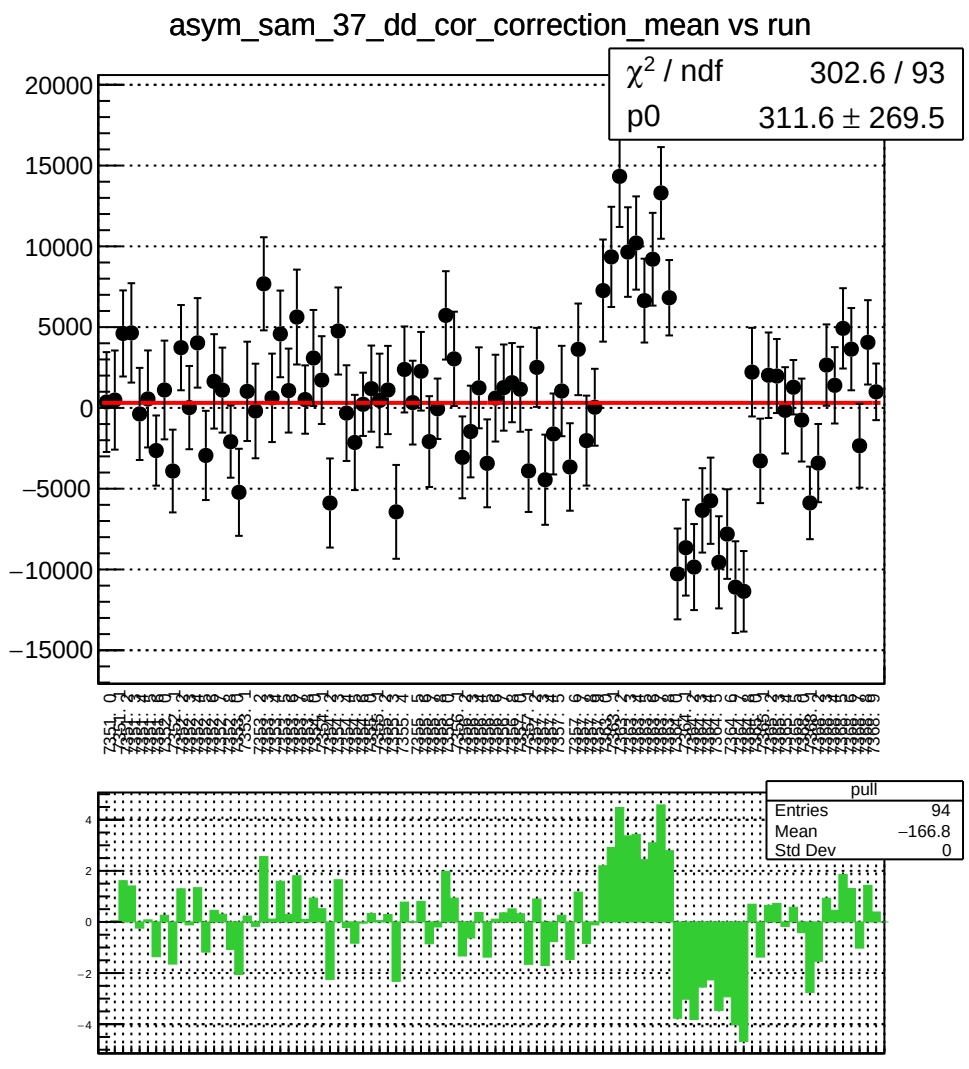

pull1D
Entries 94
Mean 0.02016
Std Dev 1.794

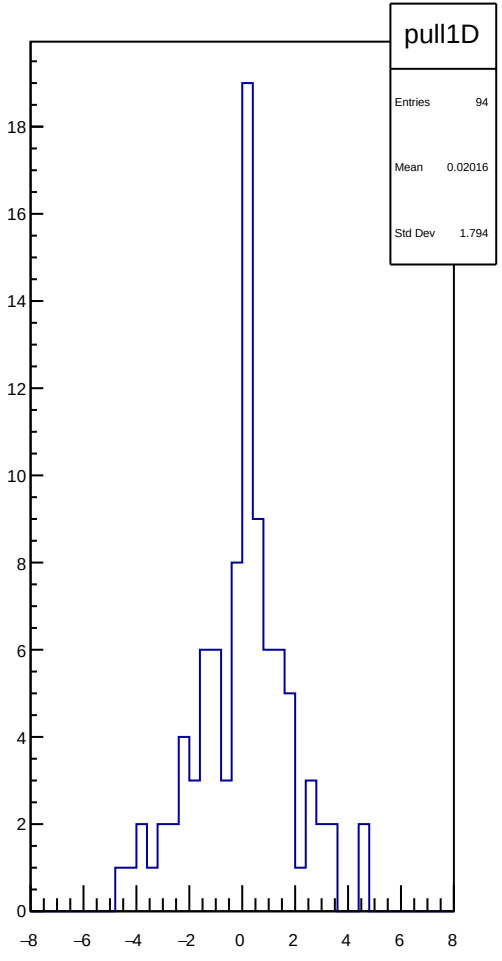

asym_sam_37_dd_reg_correction_rms vs run
χ² / ndf 9807 / 93
p0 256.3 ± 0.1905
300
280
260
240
220

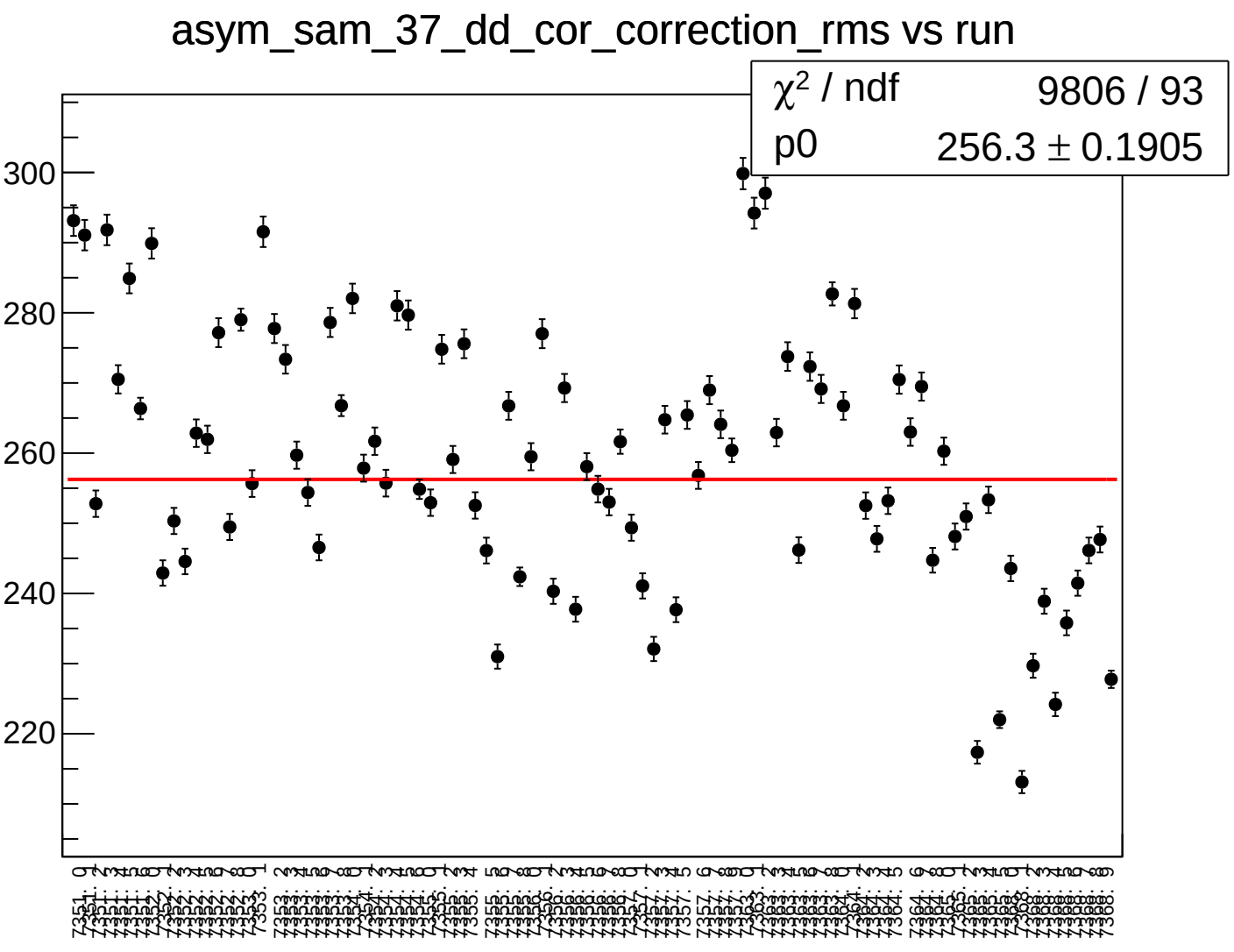

cor_asym_sam_37_dd_mean vs run
χ² / ndf 129.2 / 93
p0 −80.07 ± 50.31
pull
Entries 94
Mean 276.1
Std Dev 0

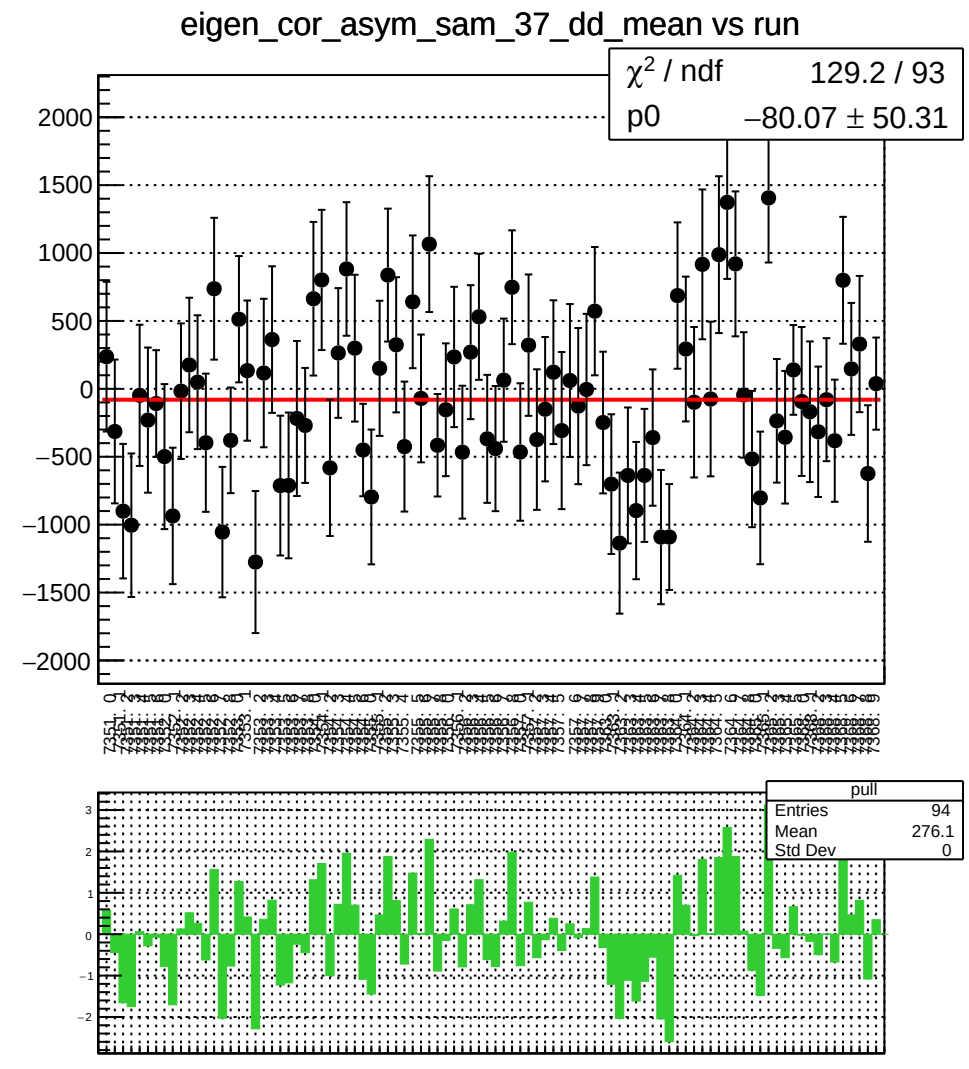

pull1D
Entries 94
Mean 0.01625
Std Dev 1.172

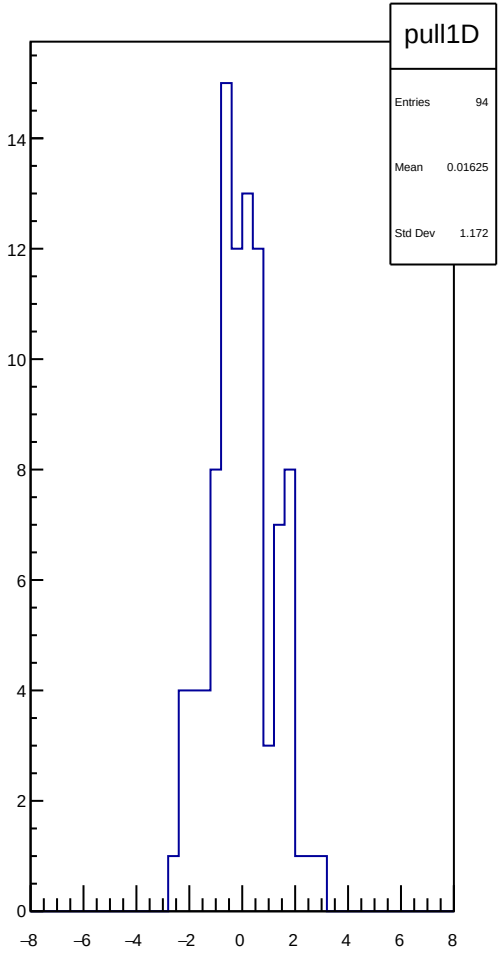

cor_asym_sam_37_dd_rms vs run
χ² / ndf 7198 / 93
p0 47.88 ± 0.03558
56
54
52
50
48
46
44
42

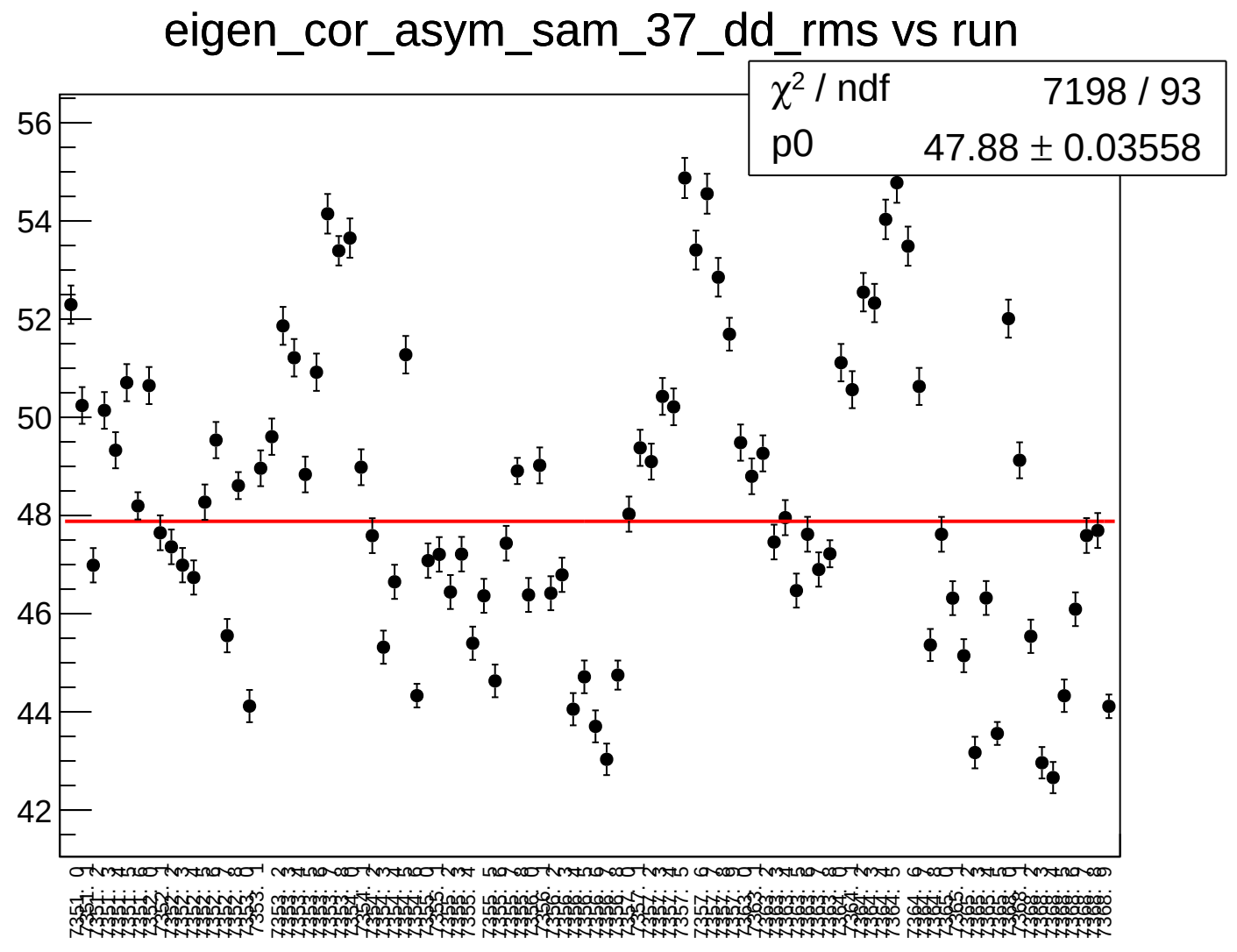

asym_sam_37_dd_cor_correction_mean vs run
χ² / ndf 302.6 / 93
p0 311.6 ± 269.5
pull
Entries 94
Mean −166.8
Std Dev 0

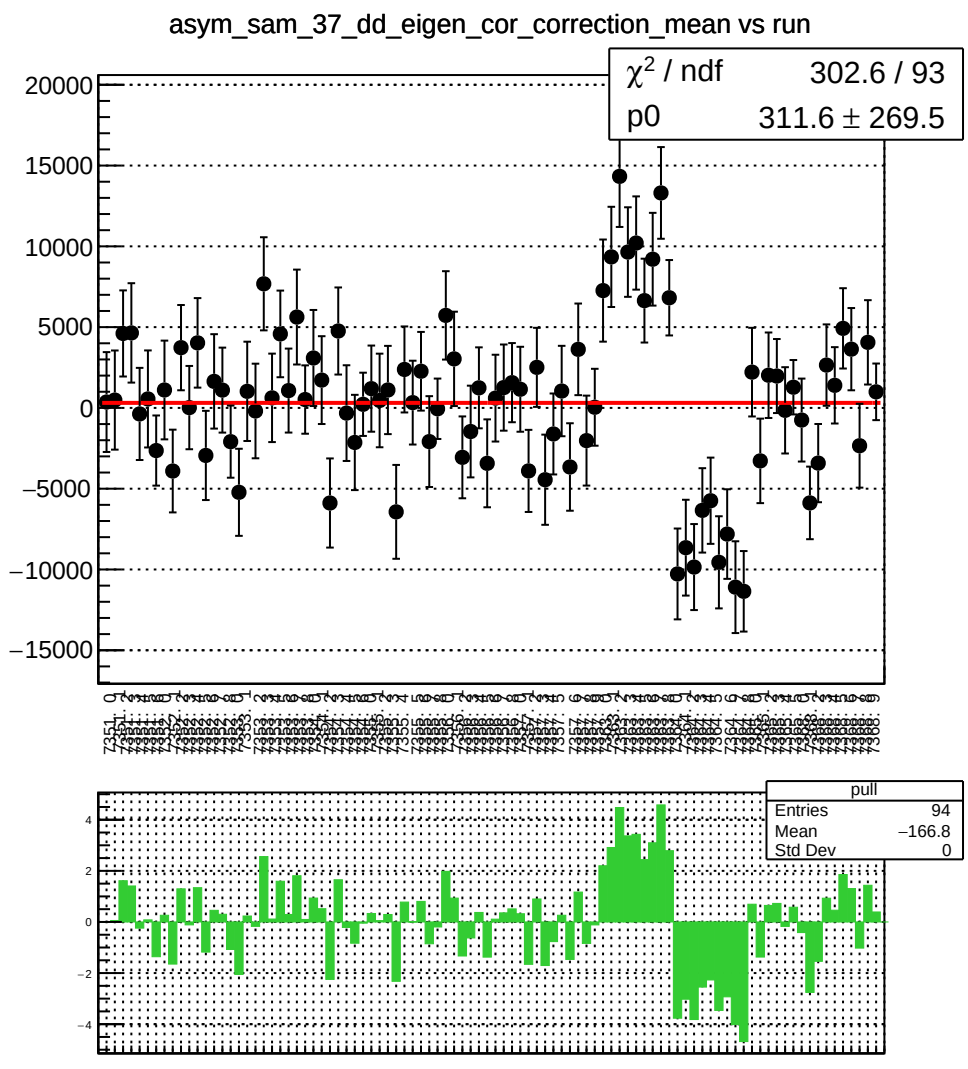

pull1D
Entries 94
Mean 0.02016
Std Dev 1.794

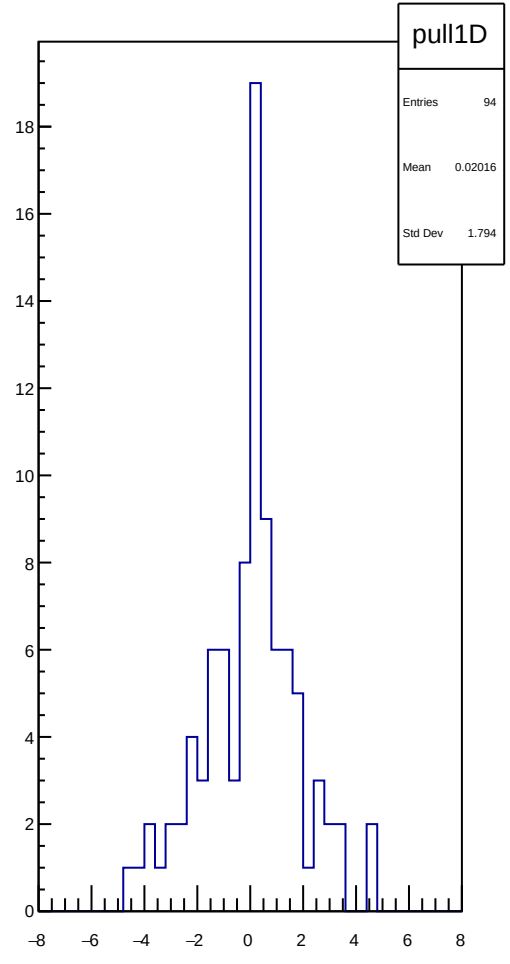

asym_sam_37_dd_cor_correction_rms vs run
χ² / ndf 9806 / 93
p0 256.3 ± 0.1905
300
280
260
240
220

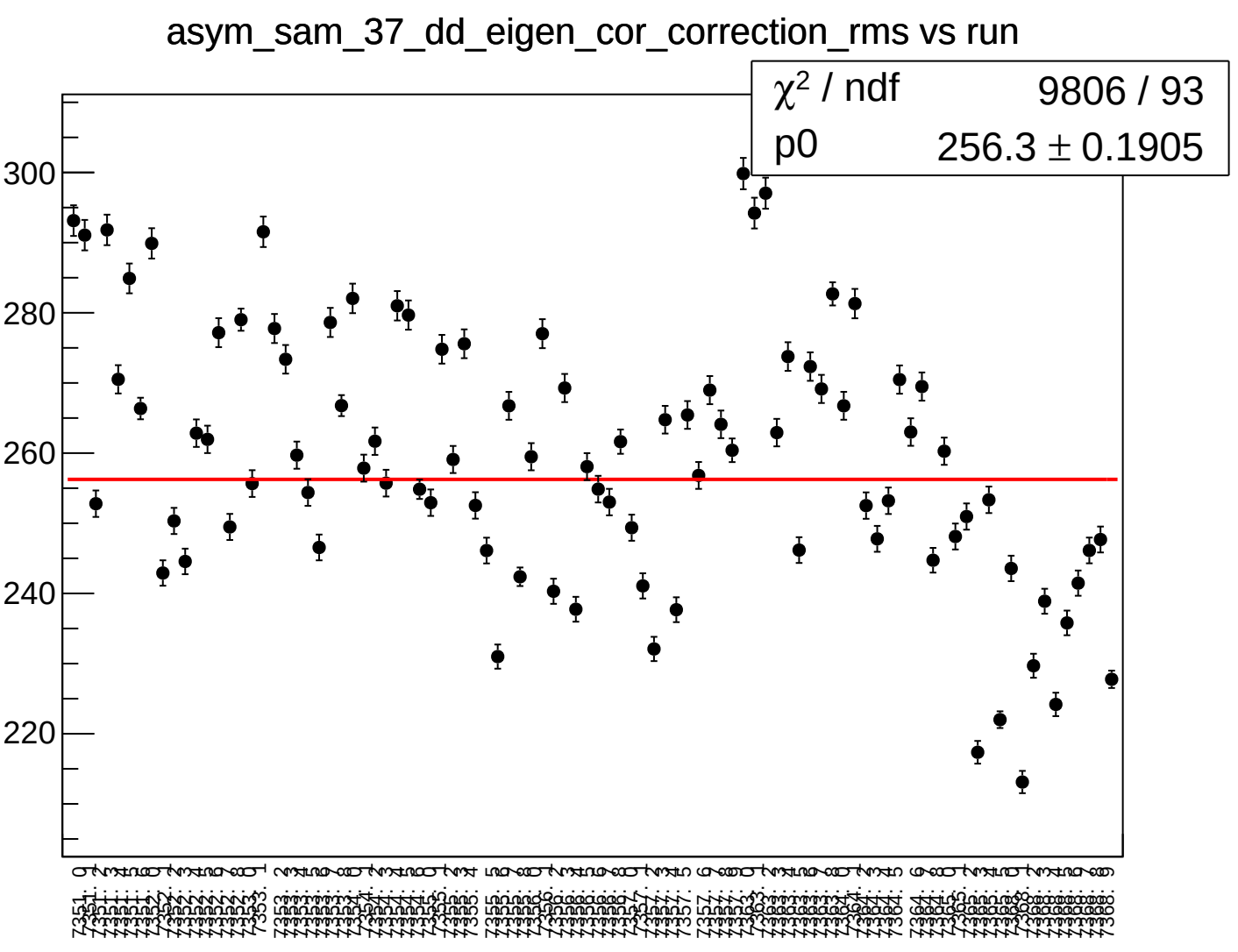

eigen_cor_asym_sam_37_dd_mean vs run
χ² / ndf 129.2 / 93
p0 −80.07 ± 50.31
2000
1500
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 94
Mean 276.1
Std Dev 0
3
2
1
0
−1
−2

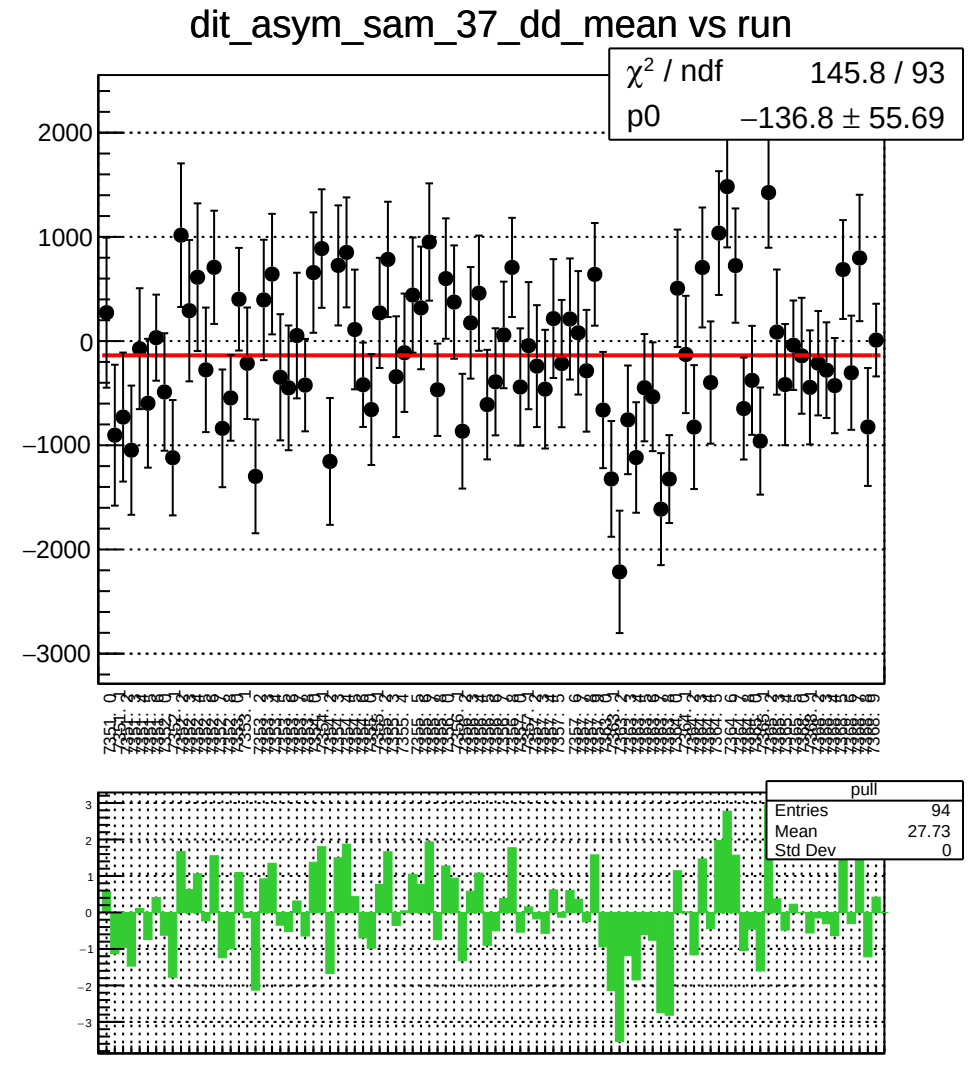

pull1D
Entries 94
Mean 0.01625
Std Dev 1.172
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

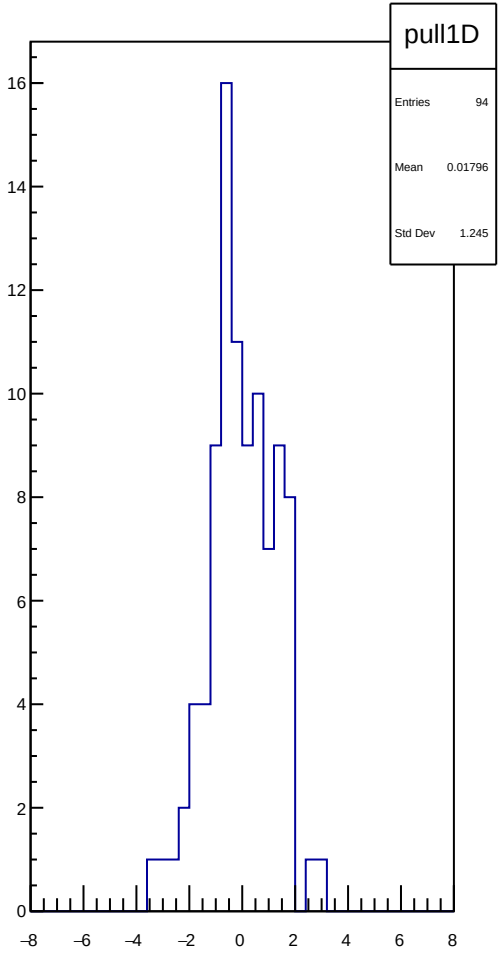

eigen_cor_asym_sam_37_dd_rms vs run
χ² / ndf 7198 / 93
p0 47.88 ± 0.03558
56
54
52
50
48
46
44
42


asym_sam_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 302.6 / 93
p0 311.6 ± 269.5
pull
Entries 94
Mean −166.8
Std Dev 0

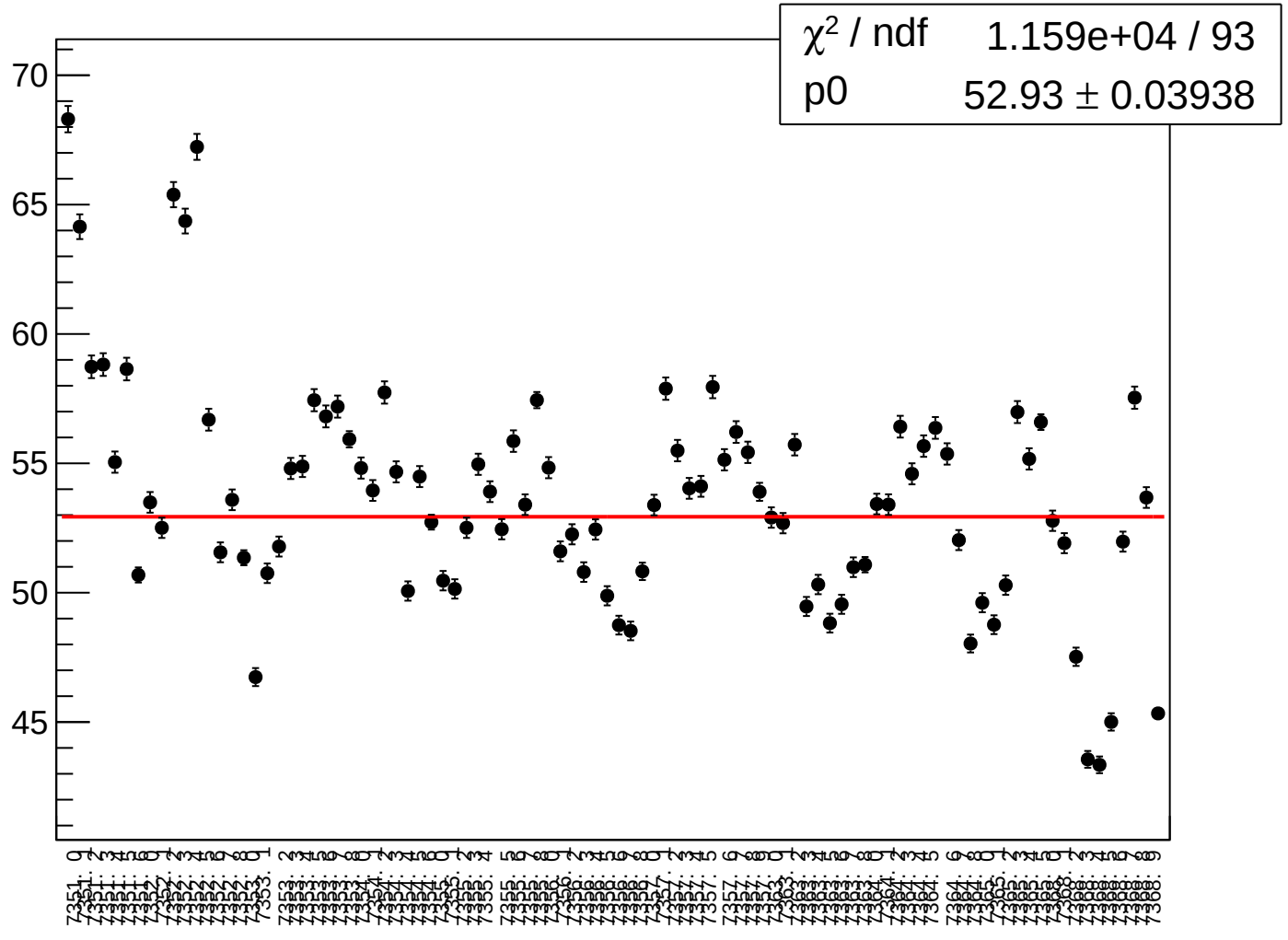

pull1D
Entries 94
Mean 0.02016
Std Dev 1.794

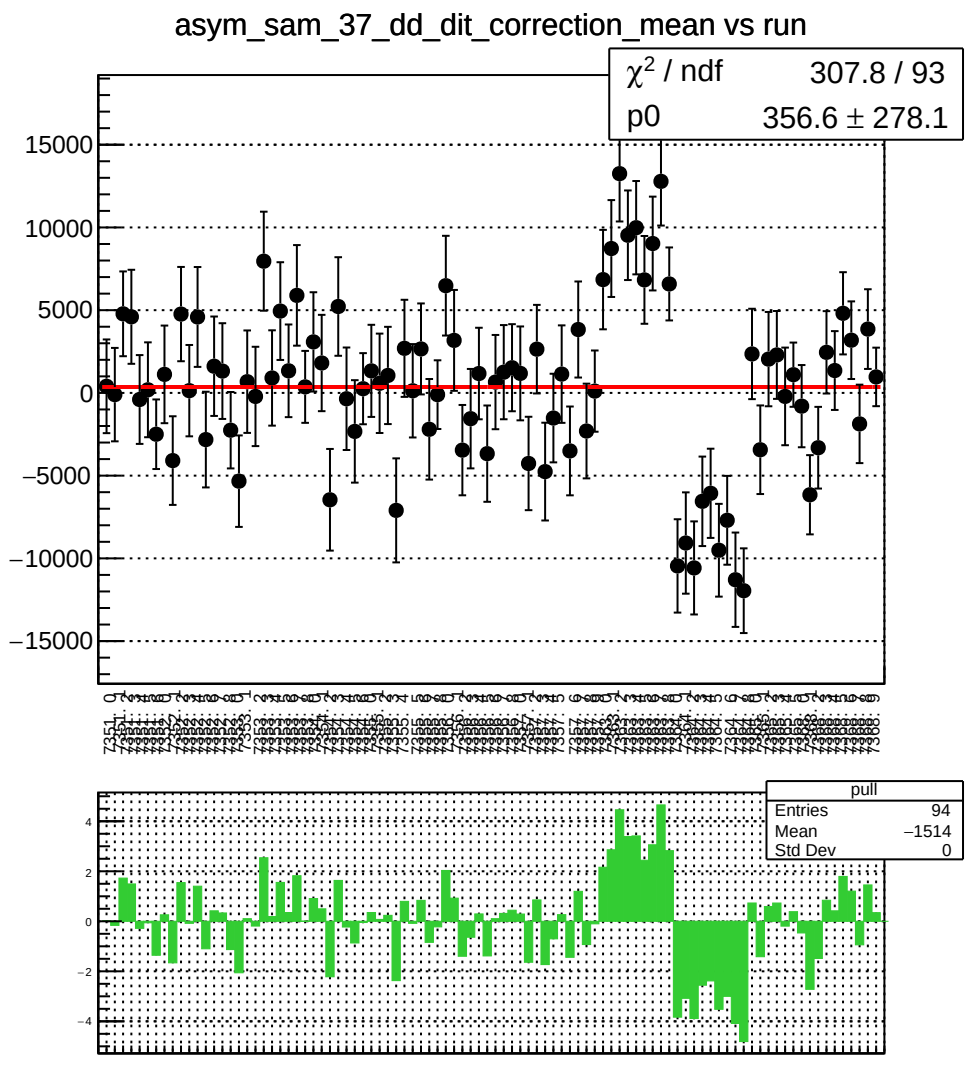

asym_sam_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 9806 / 93
p0 256.3 ± 0.1905
300
280
260
240
220

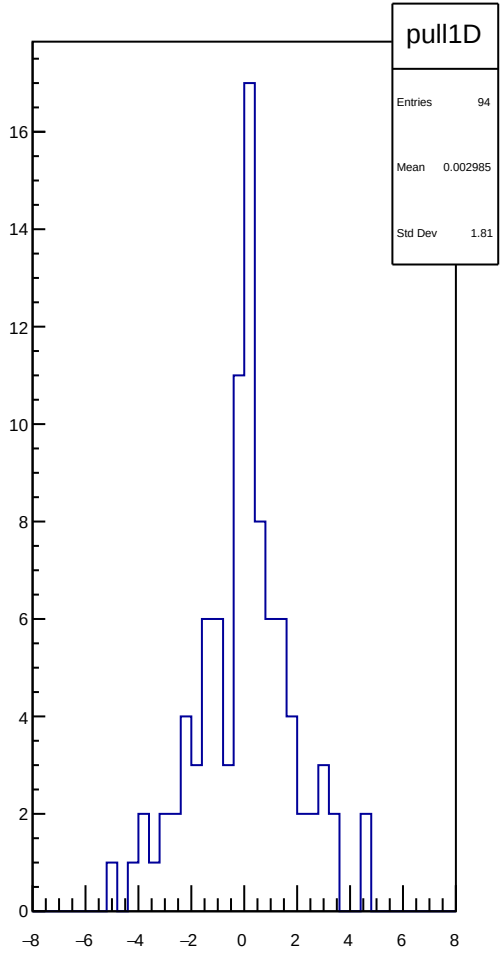

dit_asym_sam_37_dd_mean vs run
χ² / ndf 145.8 / 93
p0 −136.8 ± 55.69
2000
1000
0
−1000
−2000
−3000
pull
Entries 94
Mean 27.73
Std Dev 0
3
2
1
0
−1
−2
−3

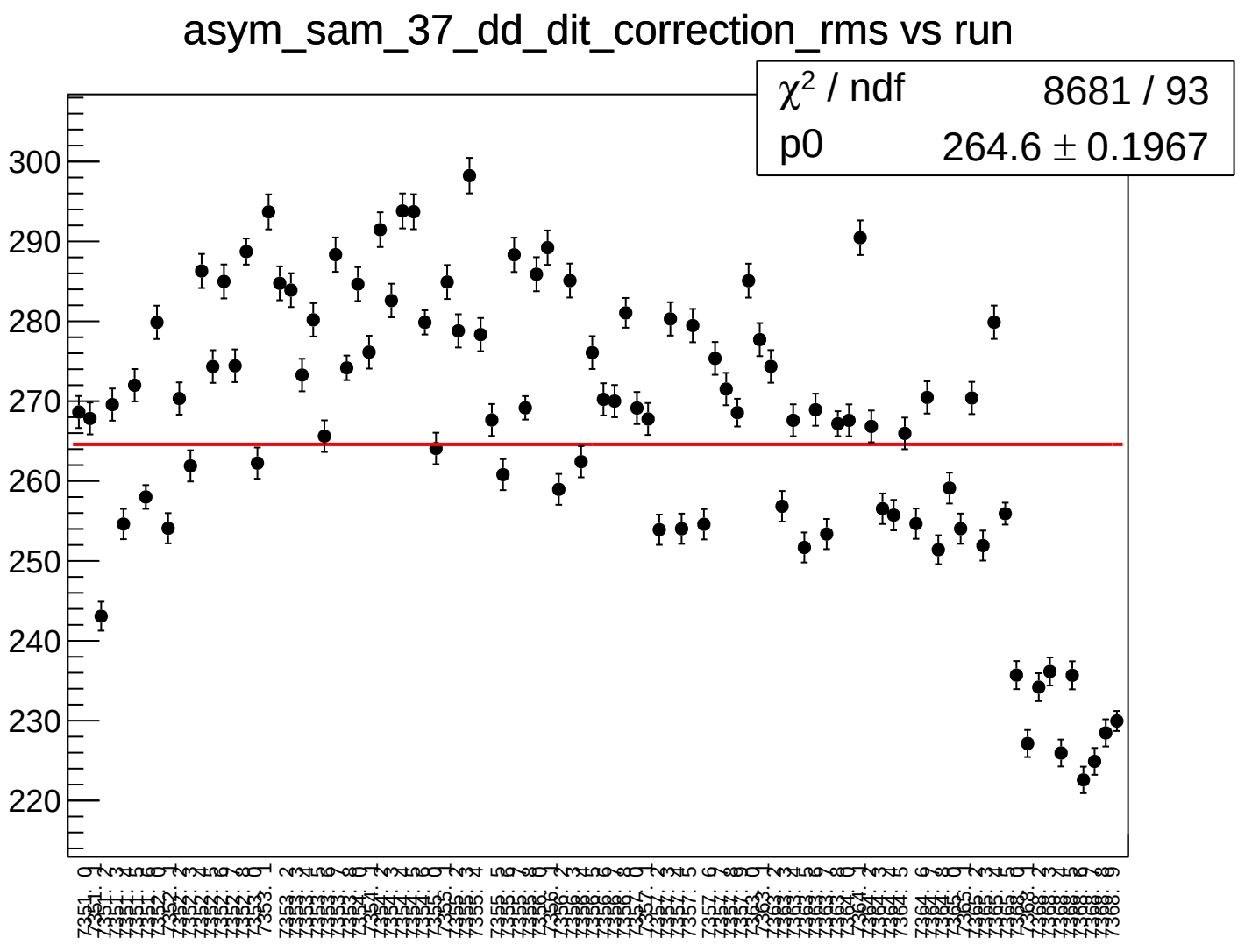

pull1D
Entries 94
Mean 0.01796
Std Dev 1.245
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

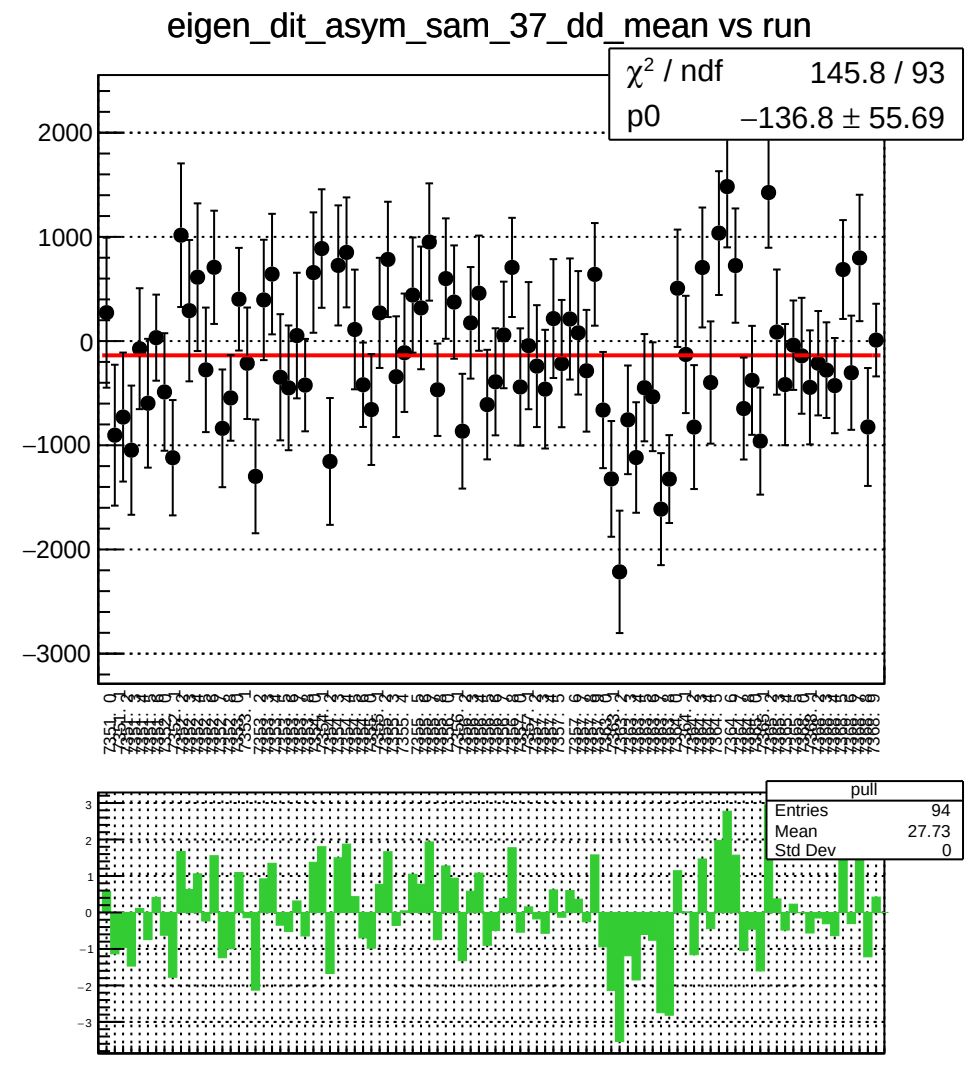
dit_asym_sam_37_dd_rms vs run

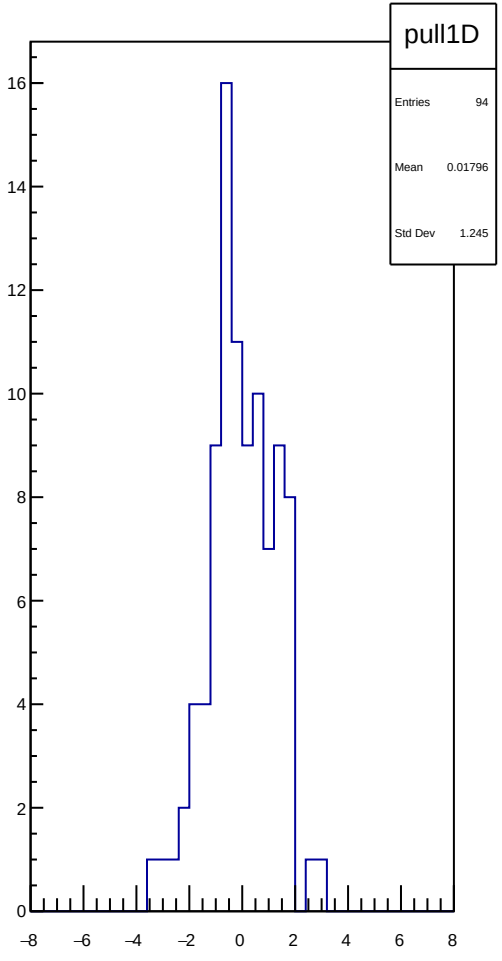


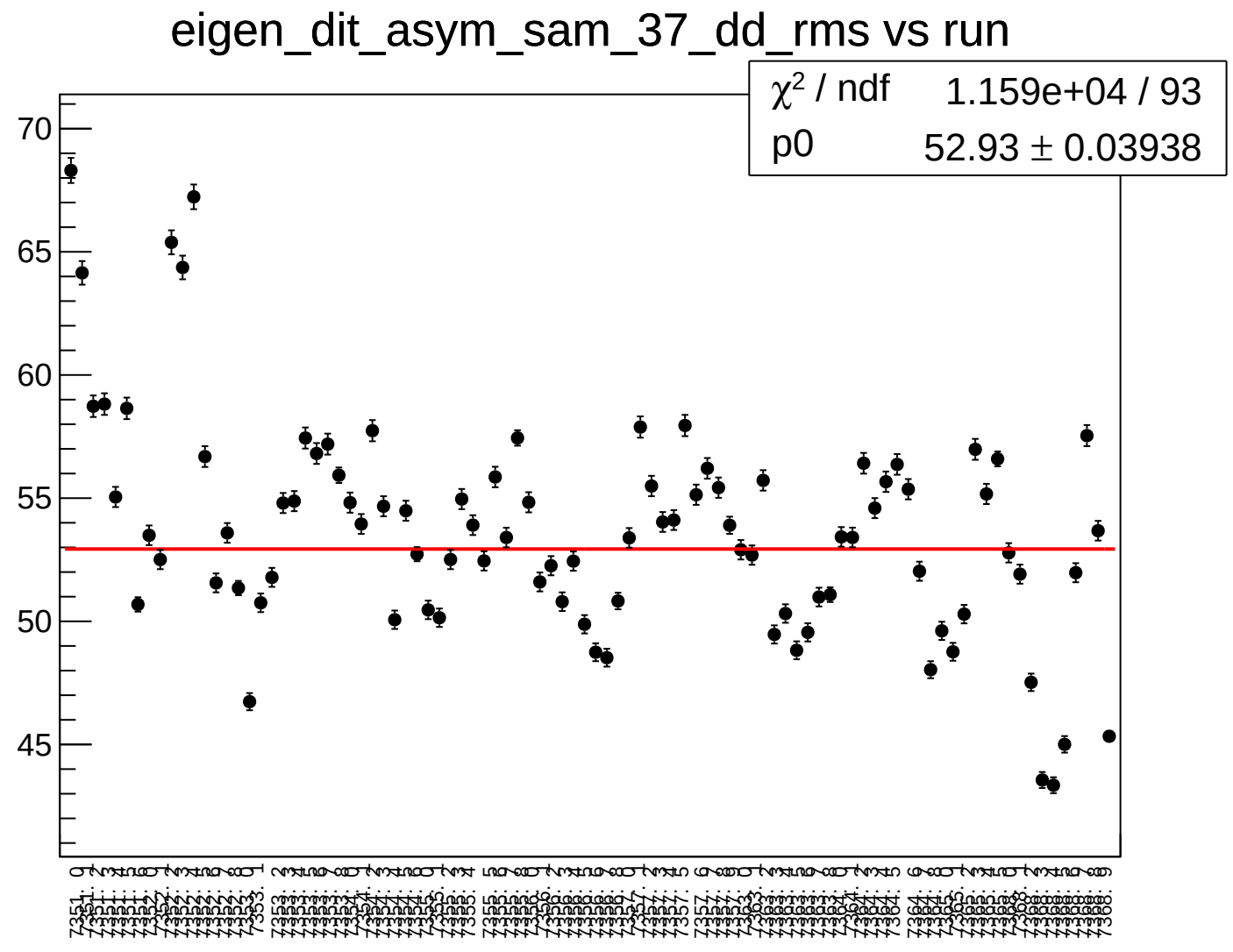

asym_sam_37_dd_dit_correction_mean vs run
χ² / ndf 307.8 / 93
p0 356.6 ± 278.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean −1514
Std Dev 0
4
2
0
−2
−4

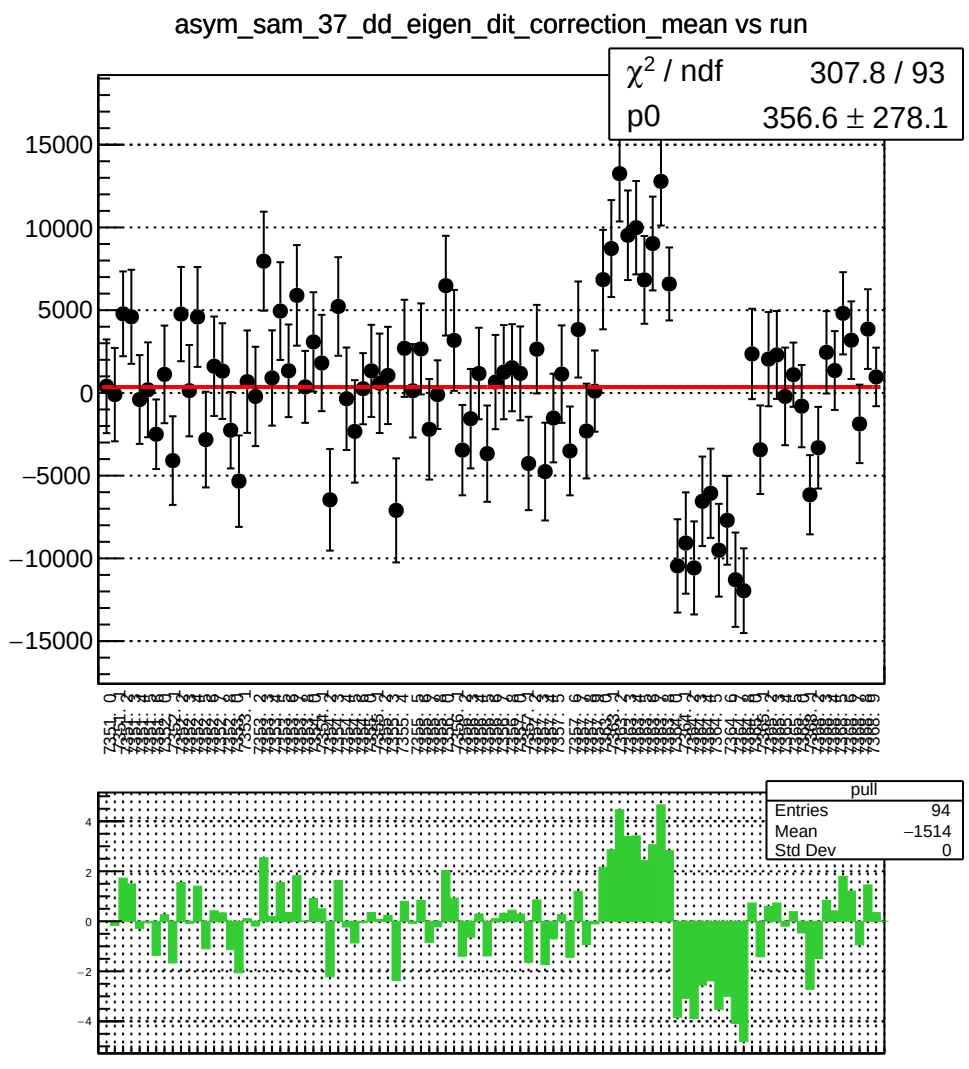

pull1D
Entries 94
Mean 0.002985
Std Dev 1.81
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

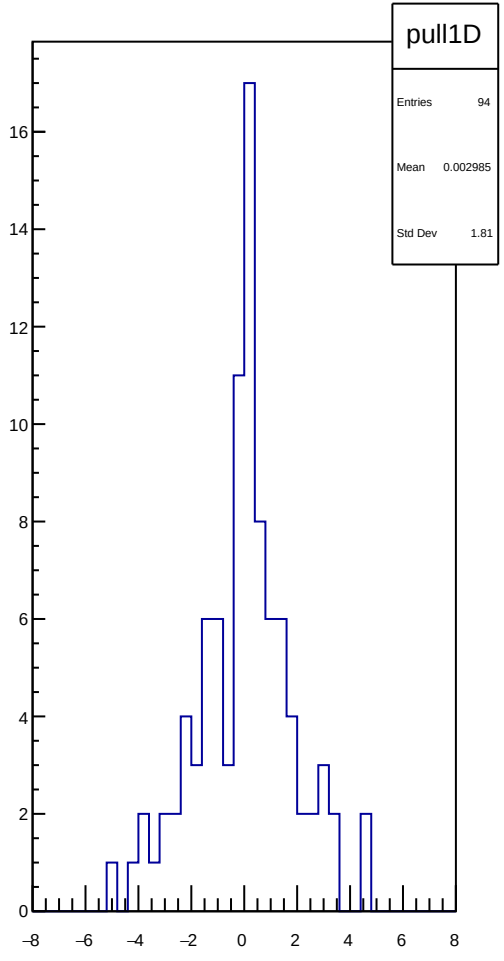

asym_sam_37_dd_dit_correction_rms vs run
χ² / ndf 8681 / 93
p0 264.6 ± 0.1967
300
290
280
270
260
250
240
230
220

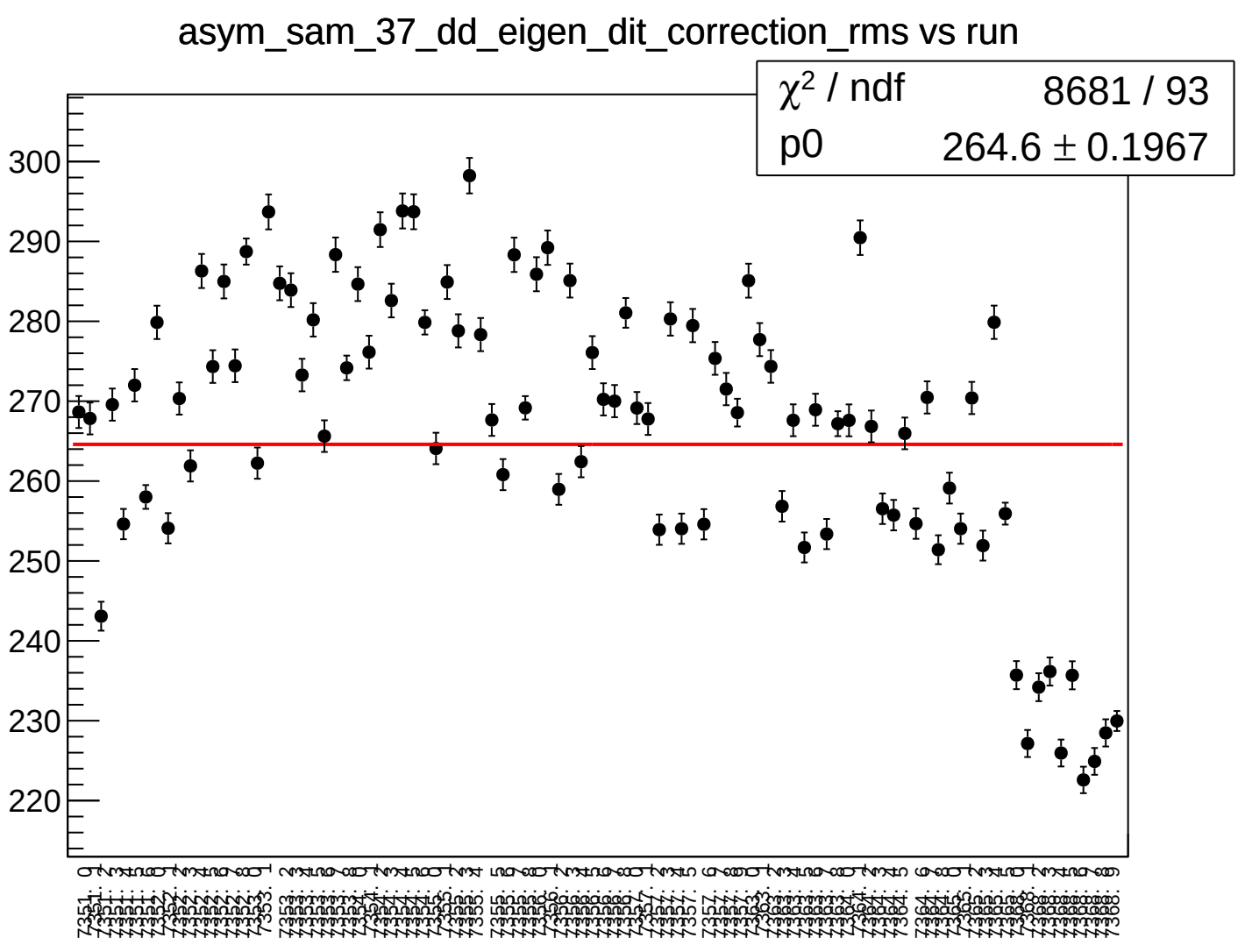

eigen_dit_asym_sam_37_dd_mean vs run
χ² / ndf 145.8 / 93
p0 −136.8 ± 55.69
2000
1000
0
−1000
−2000
−3000
pull
Entries 94
Mean 27.73
Std Dev 0
3
2
1
0
−1
−2
−3

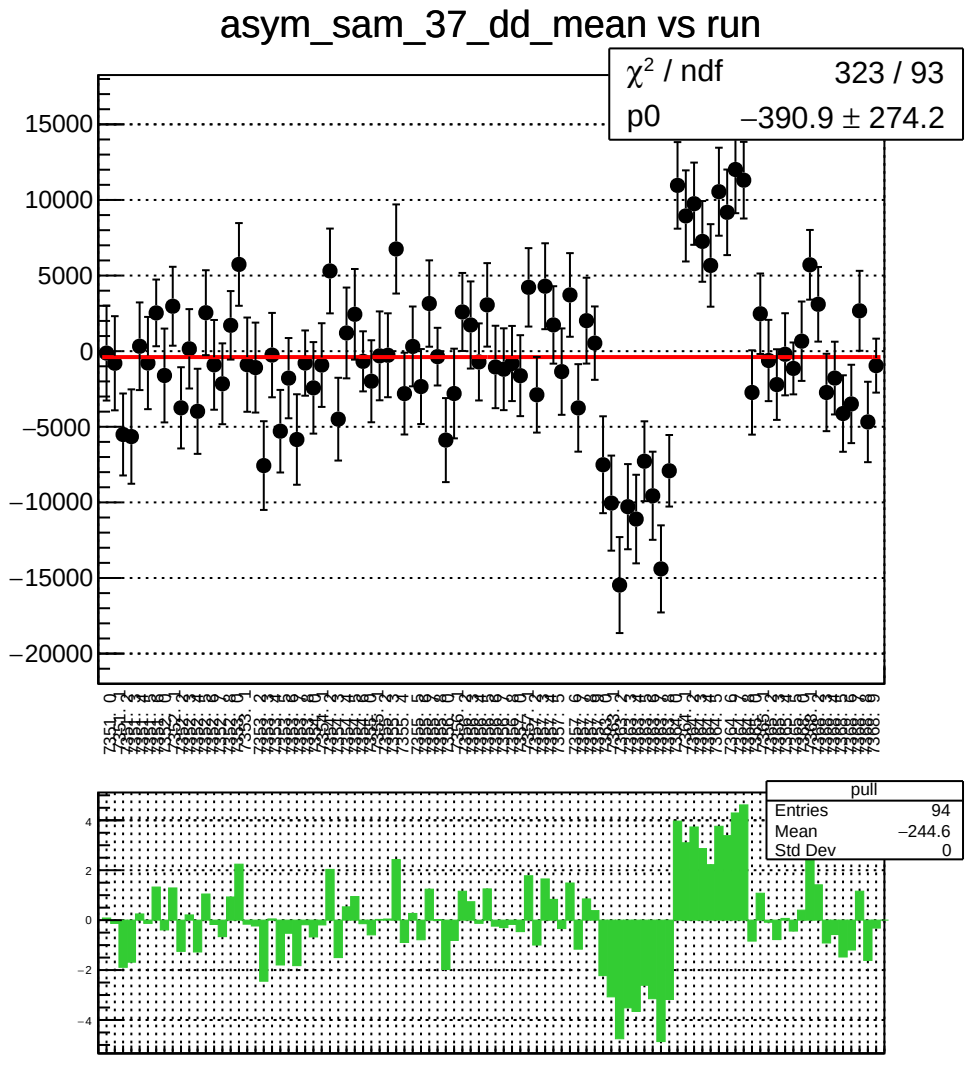

pull1D
Entries 94
Mean 0.01796
Std Dev 1.245
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

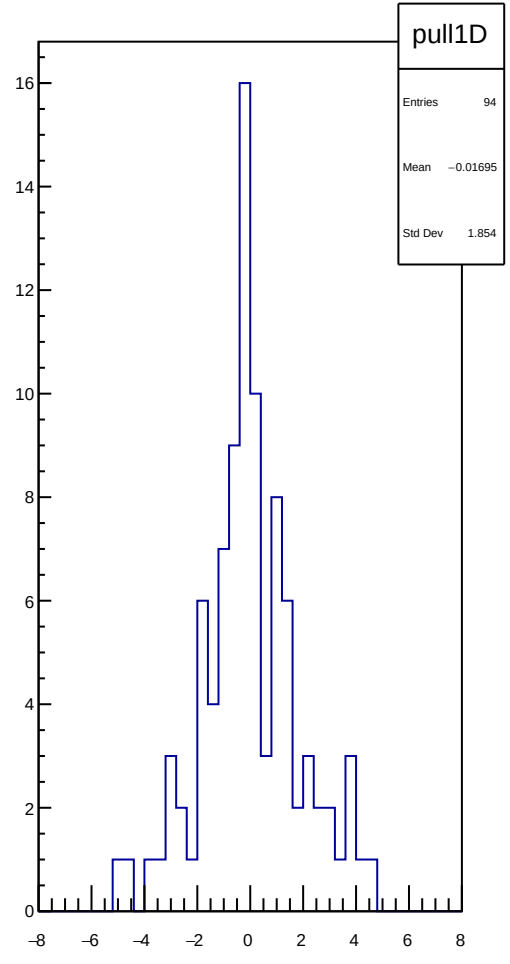

eigen_dit_asym_sam_37_dd_rms vs run
χ^2 / ndf 1.159e+04 / 93
p0 52.93 ± 0.03938
70
65
60
55
50
45

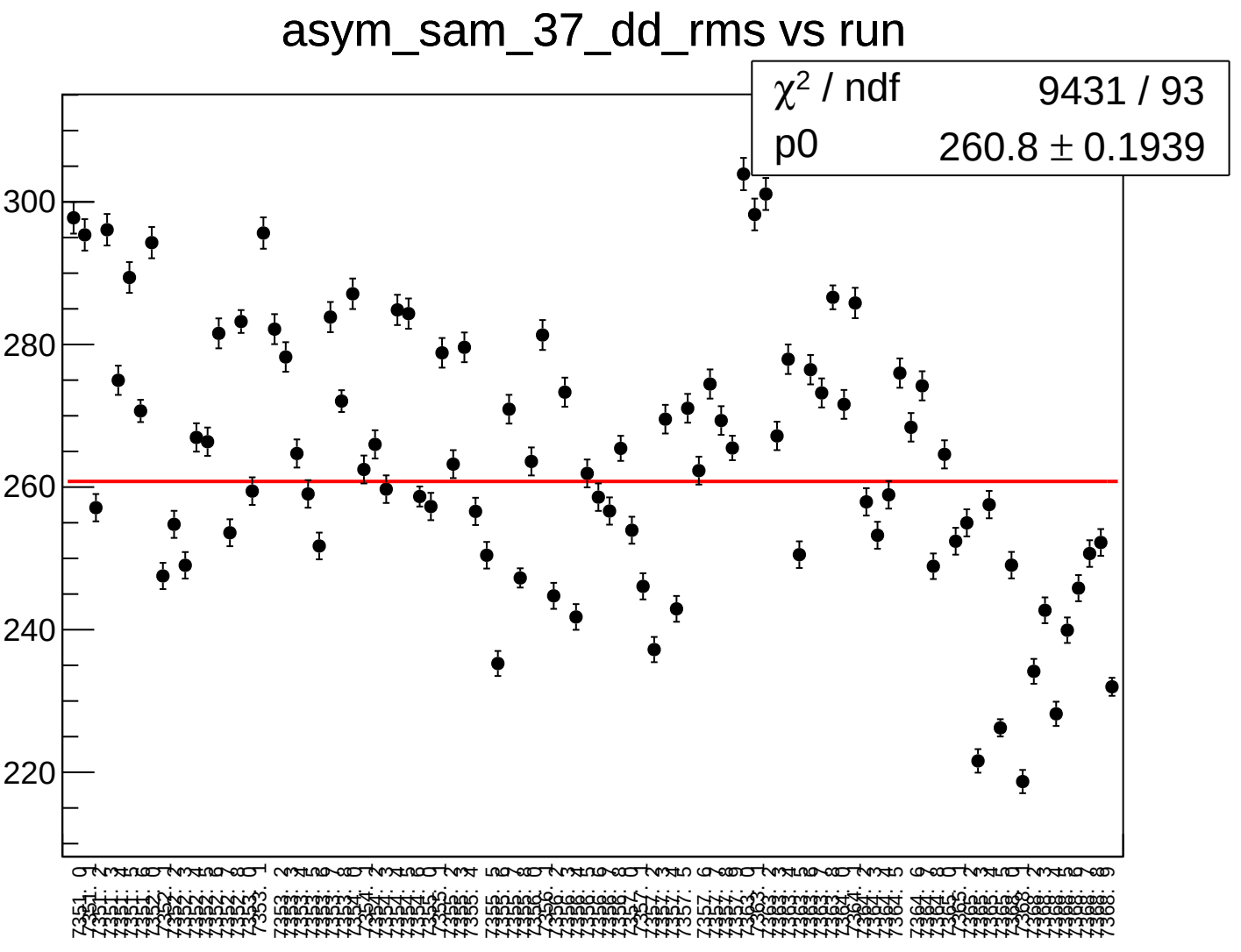

asym_sam_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 307.8 / 93
p0 356.6 ± 278.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean −1514
Std Dev 0
4
2
0
−2
−4

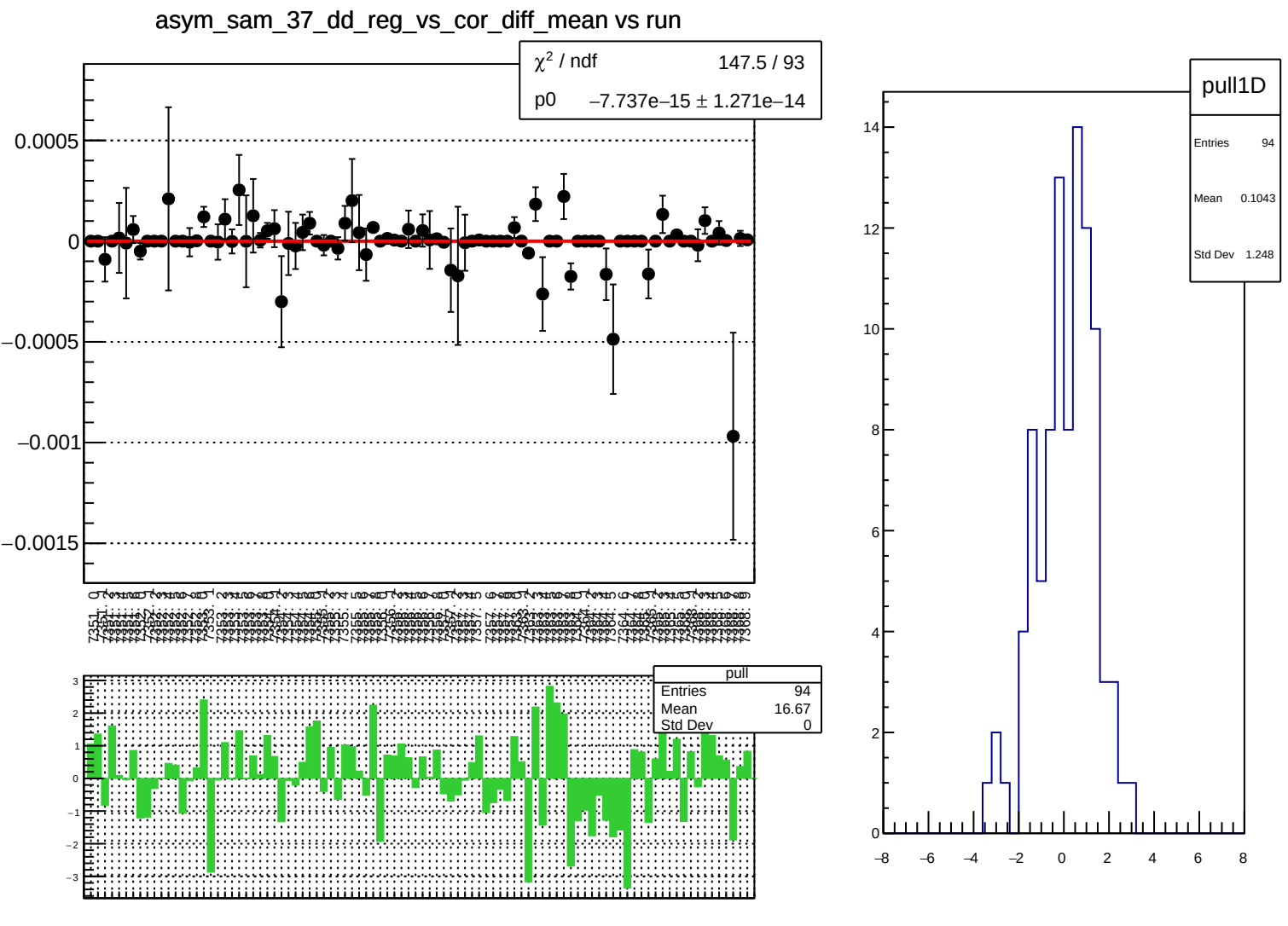

pull1D
Entries 94
Mean 0.002985
Std Dev 1.81
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

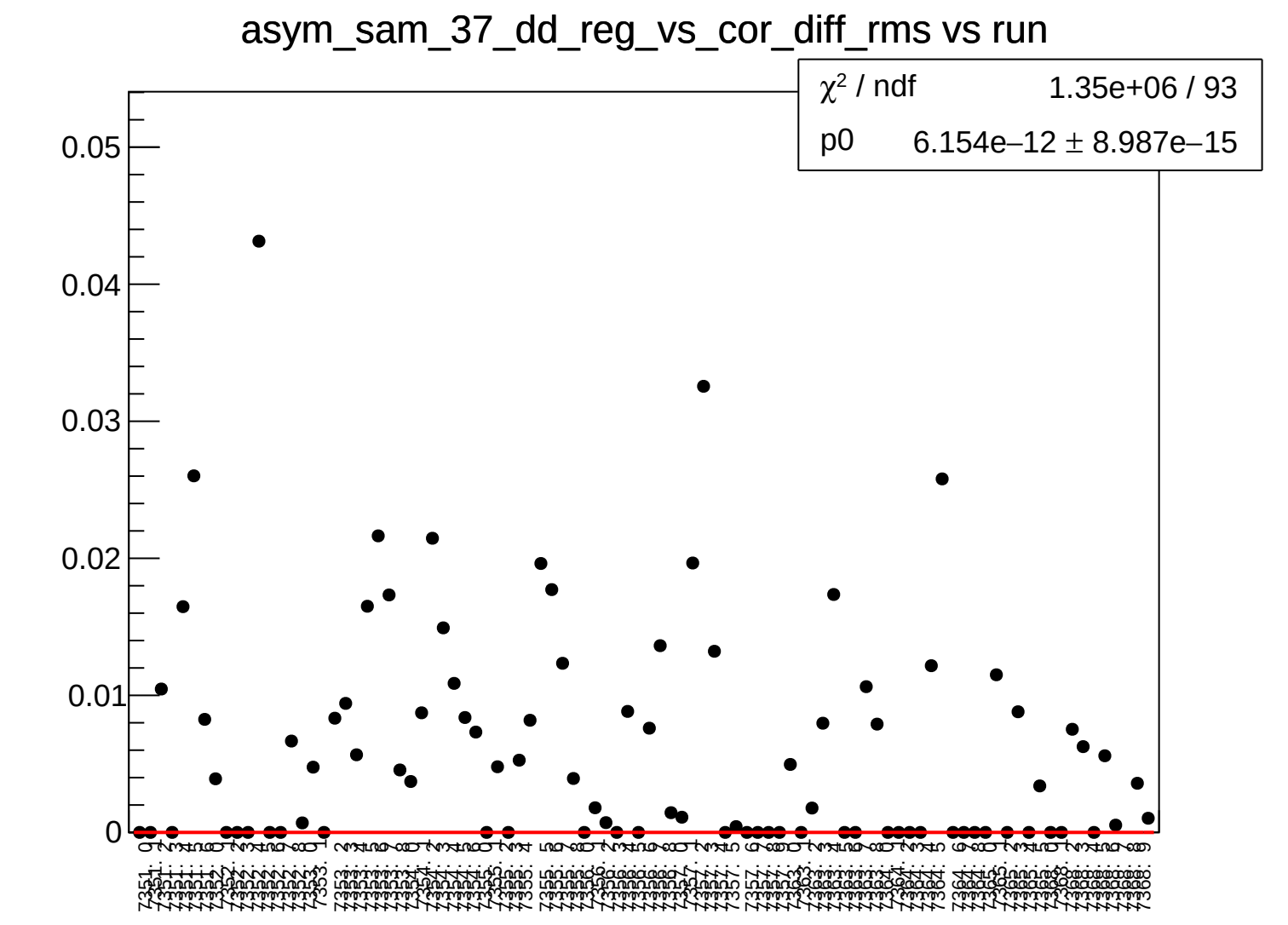

asym_sam_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 8681 / 93
p0 264.6 ± 0.1967
300
290
280
270
260
250
240
230
220

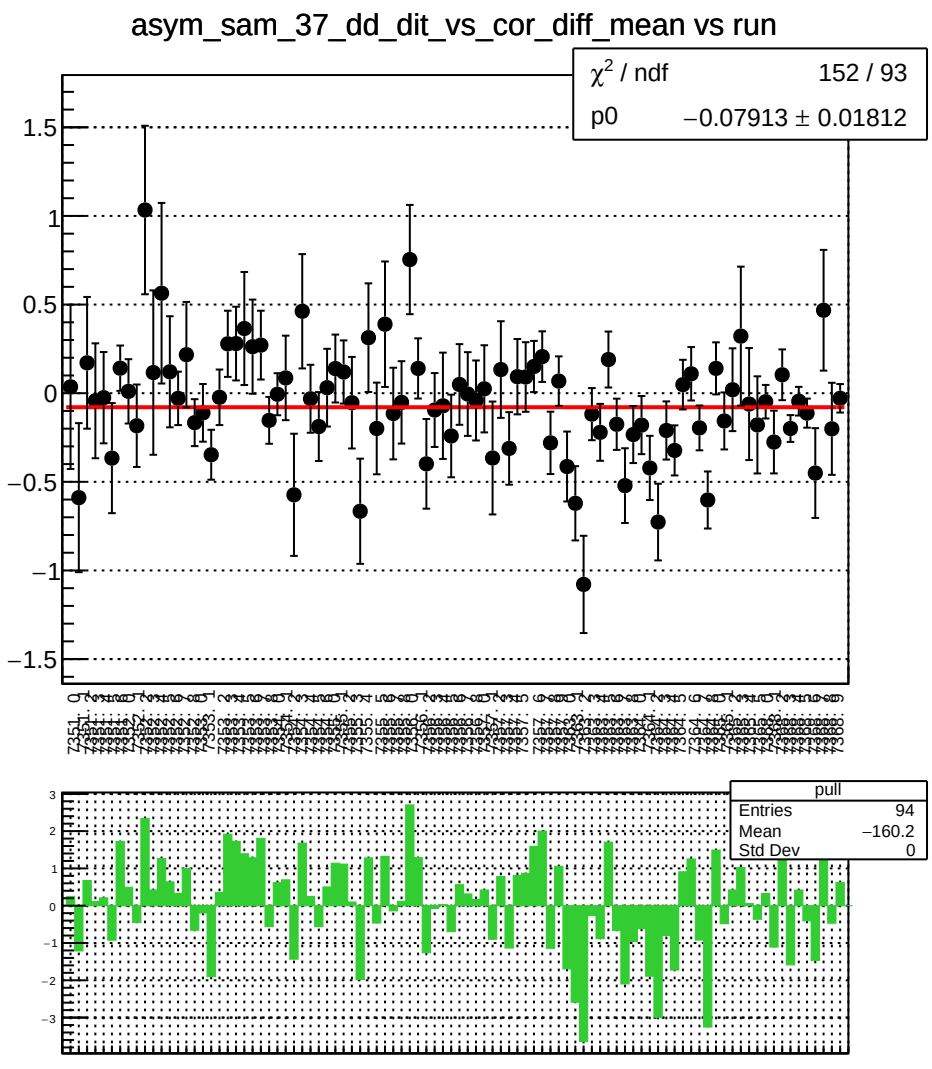

asym_sam_37_dd_mean vs run
χ² / ndf 323 / 93
p0 −390.9 ± 274.2
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 94
Mean −244.6
Std Dev 0
4
2
0
−2
−4

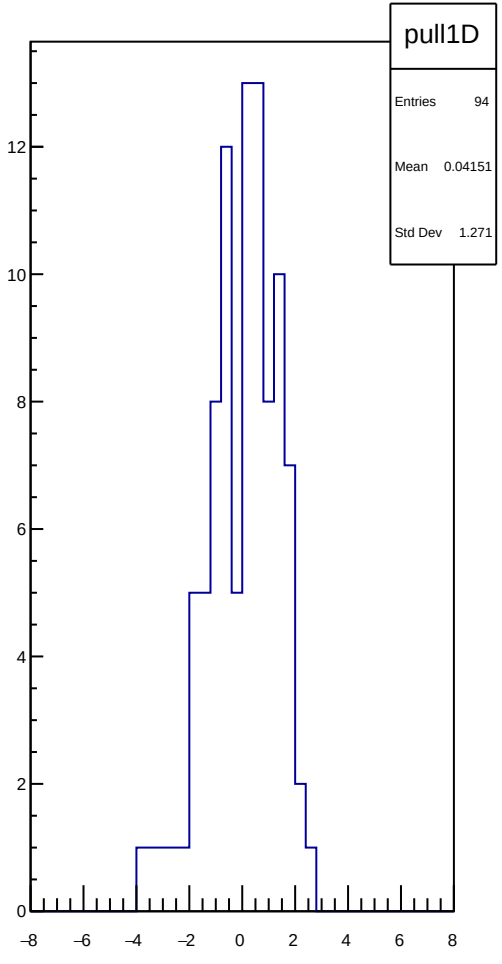

pull1D
Entries 94
Mean −0.01695
Std Dev 1.854
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

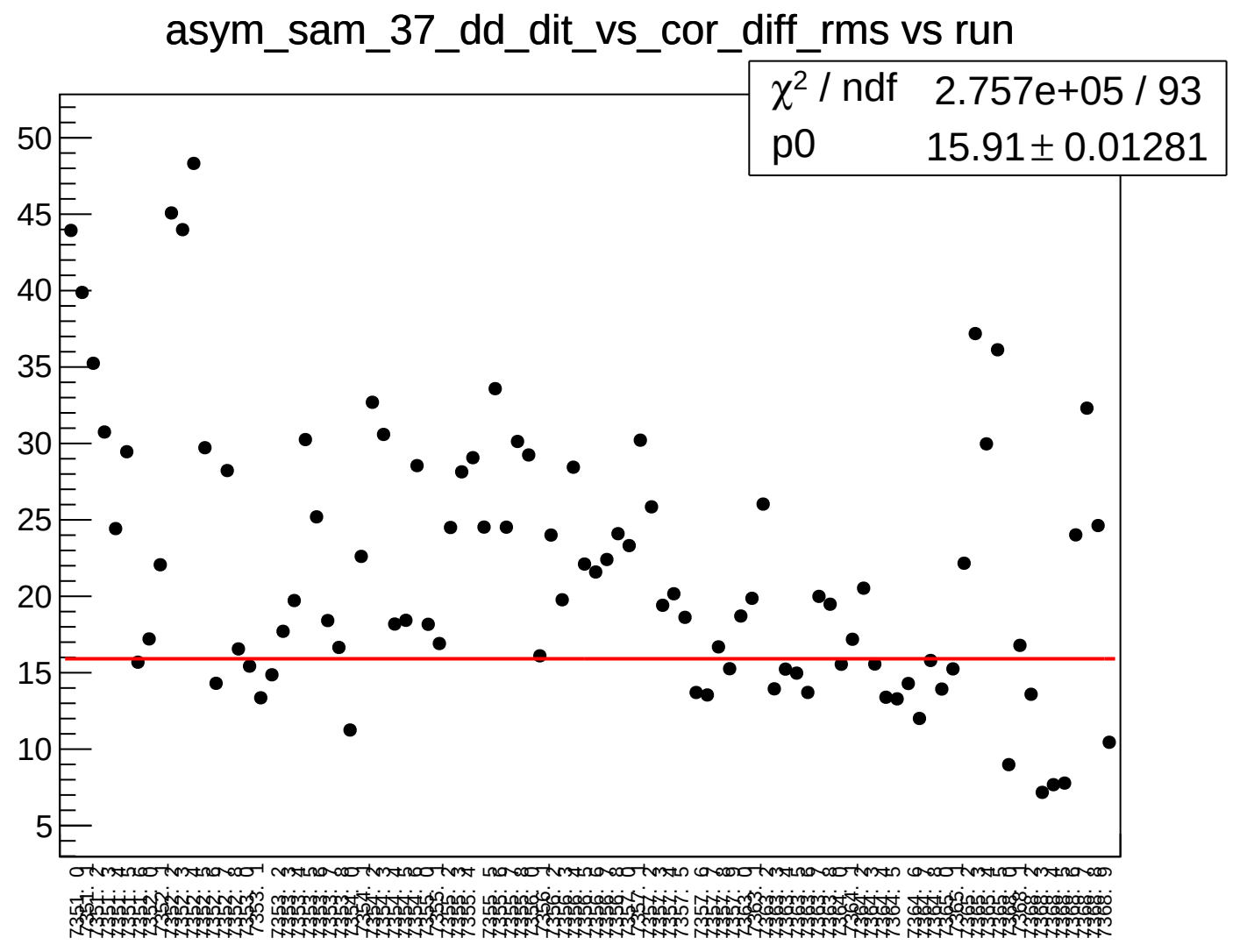

asym_sam_37_dd_rms vs run
χ² / ndf 9431 / 93
p0 260.8 ± 0.1939
300
280
260
240
220

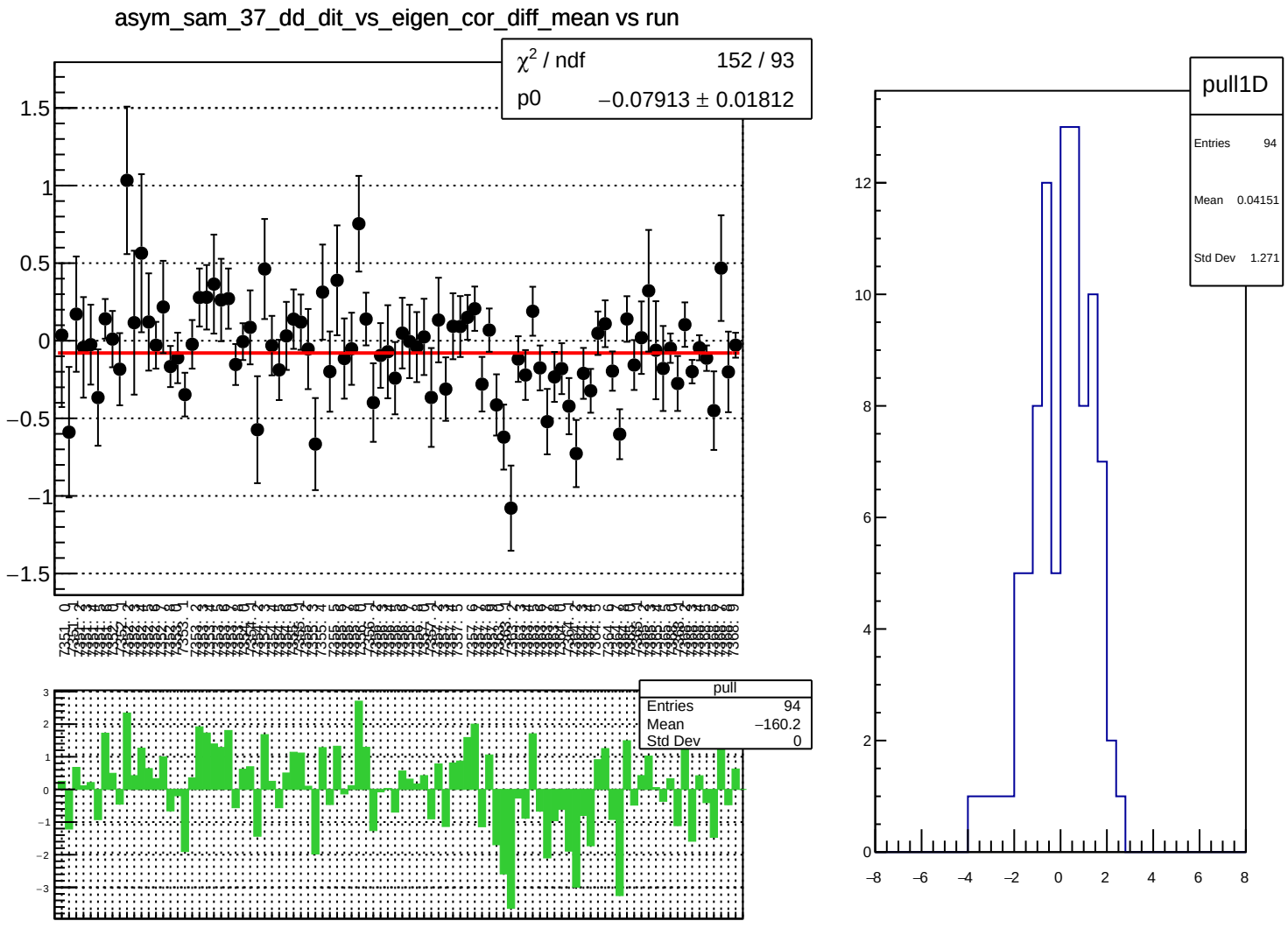

asym_sam_37_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 147.5 / 93
p0 −7.737e−15 ± 1.271e−14
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 94
Mean 16.67
Std Dev 0
pull1D
Entries 94
Mean 0.1043
Std Dev 1.248

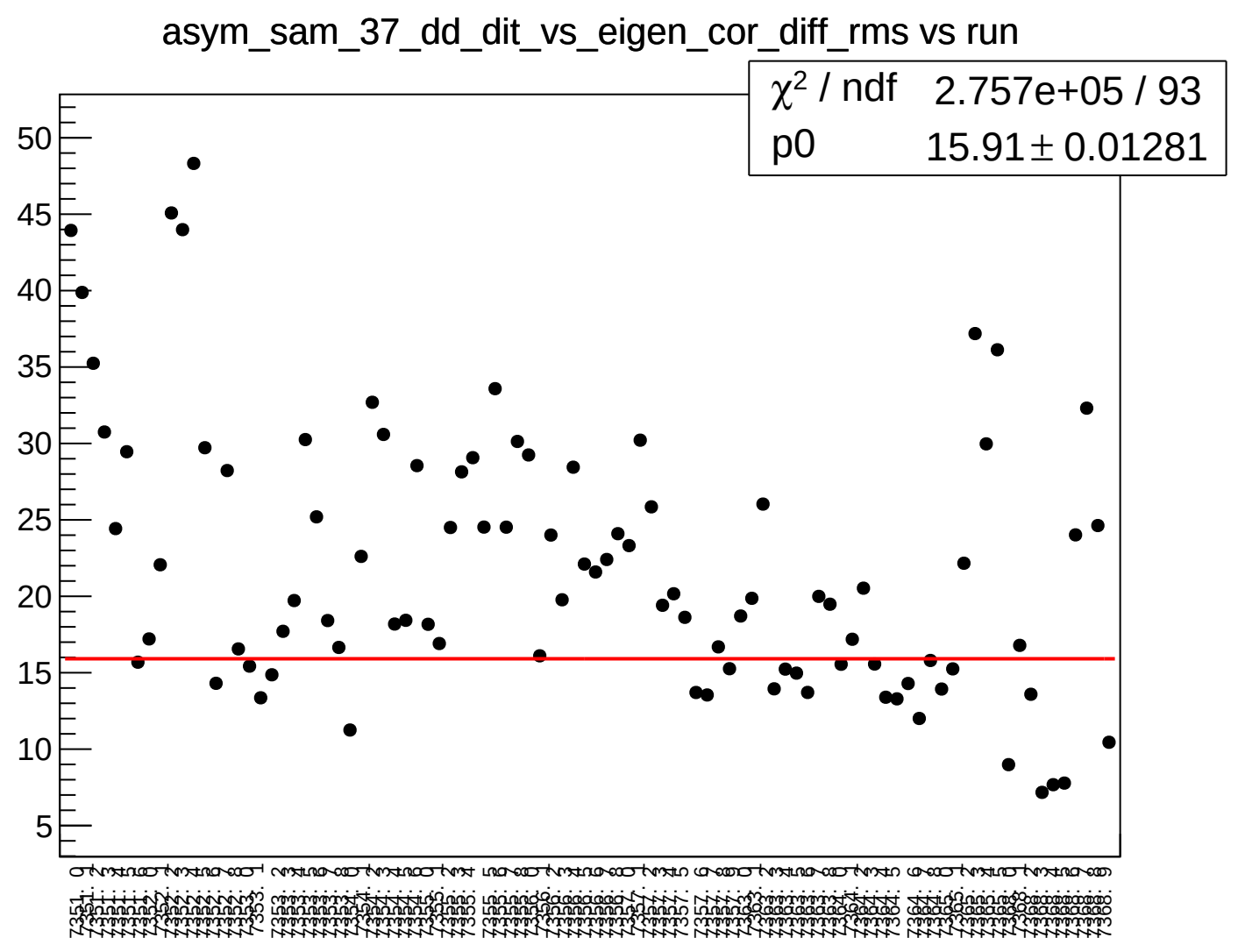

asym_sam_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.35e+06 / 93
p0 6.154e−12 ± 8.987e−15
0.05
0.04
0.03
0.02
0.01
0

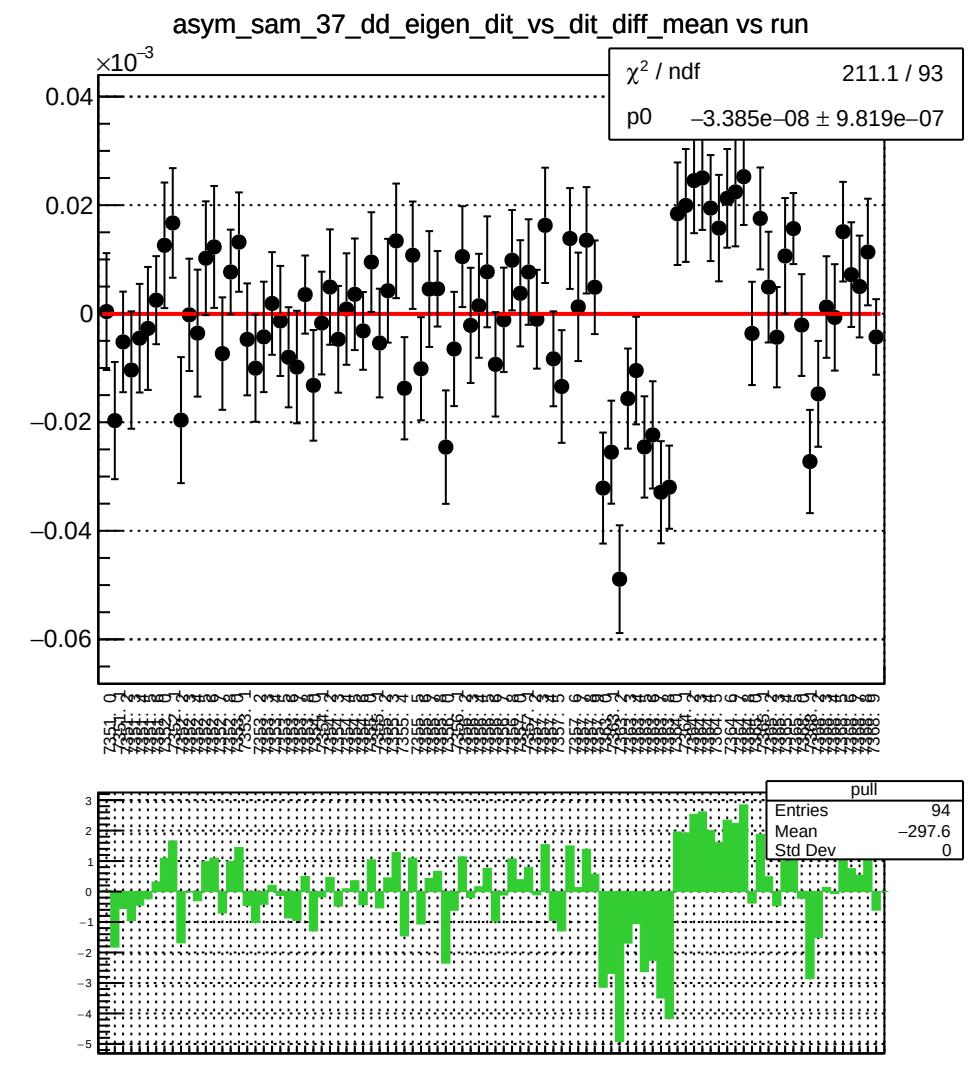

asym_sam_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 152 / 93
p0 −0.07913 ± 0.01812
pull
Entries 94
Mean −160.2
Std Dev 0

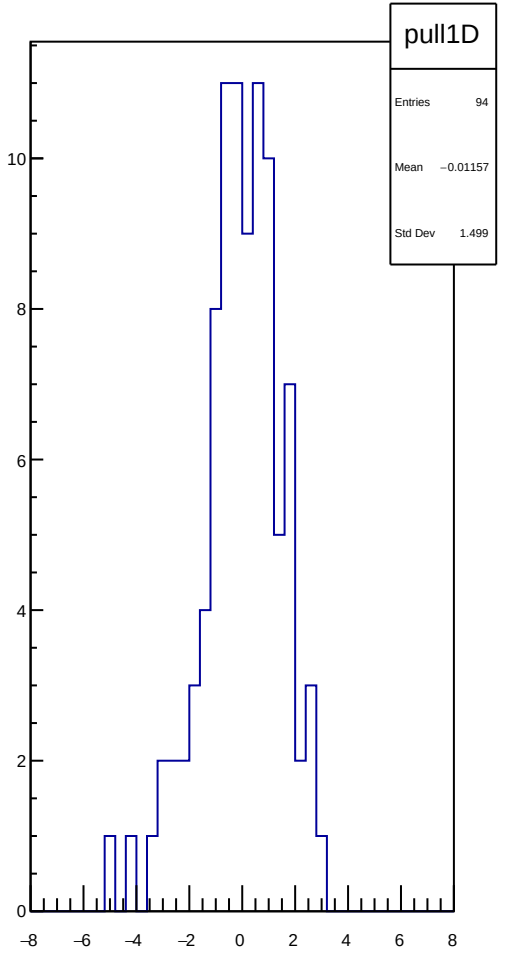

pull1D
Entries 94
Mean 0.04151
Std Dev 1.271

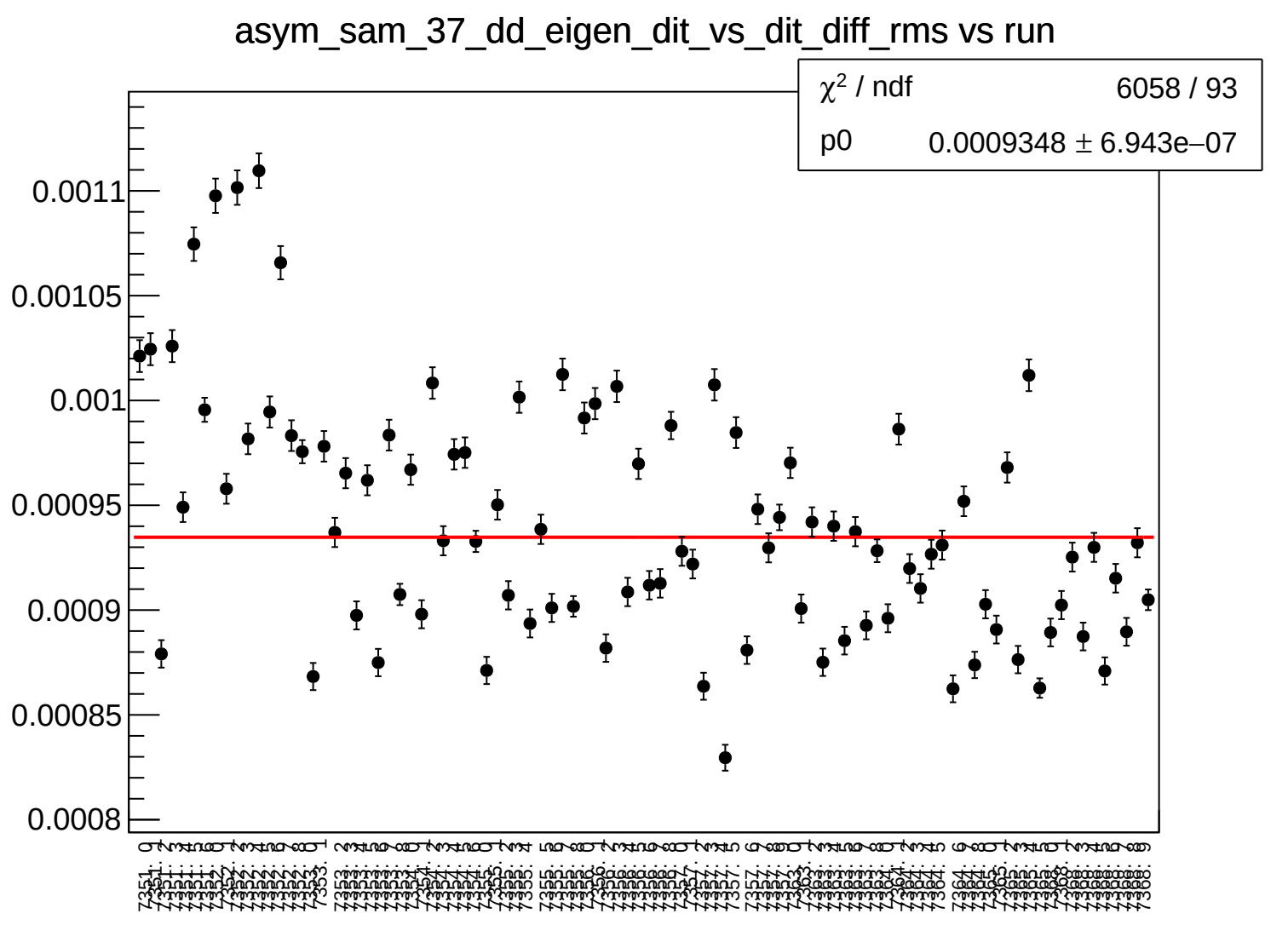

asym_sam_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.757e+05 / 93
p0 15.91 ± 0.01281
50
45
40
35
30
25
20
15
10
5

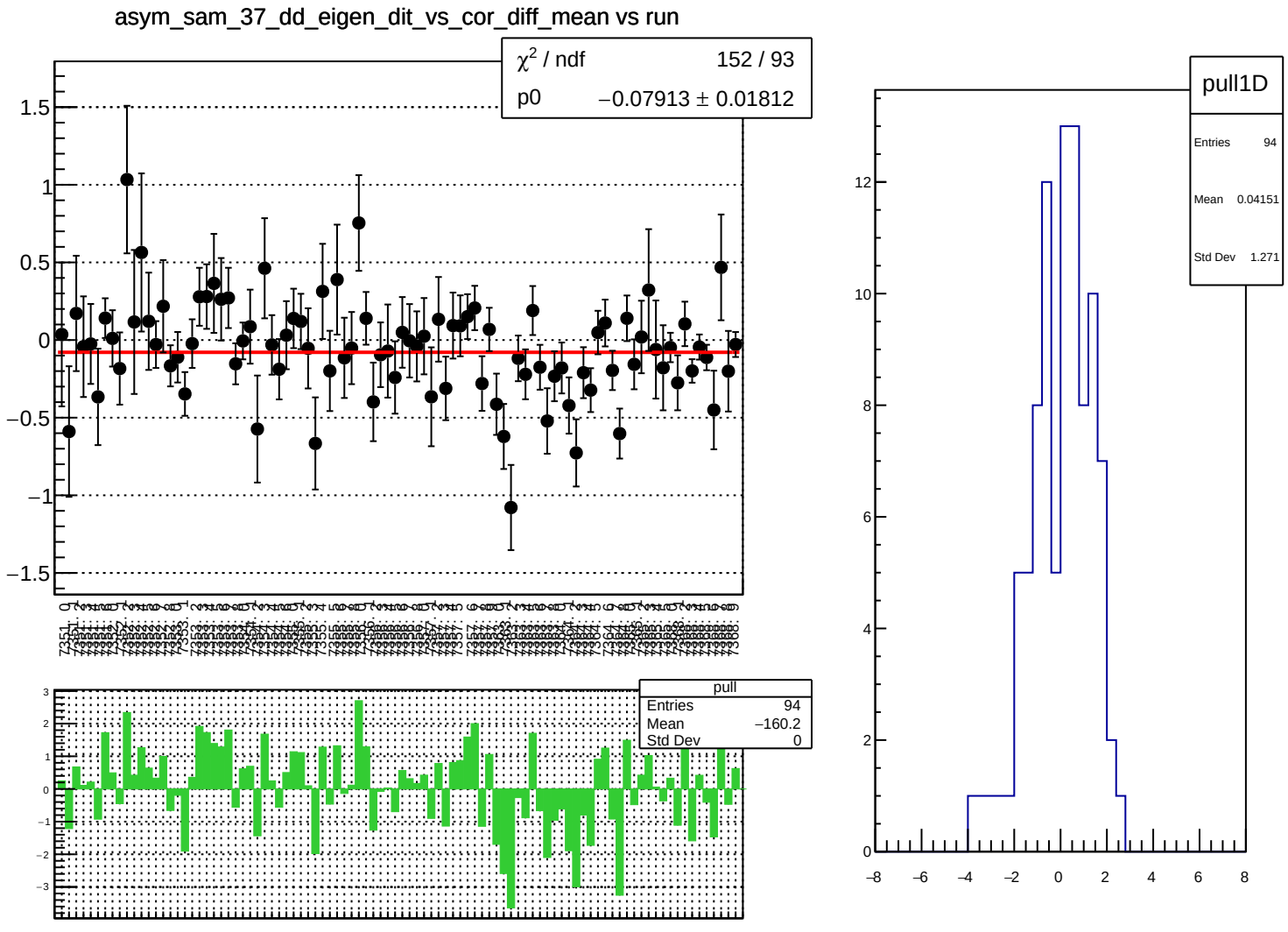

asym_sam_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 152 / 93
p0 −0.07913 ± 0.01812
pull
Entries 94
Mean −160.2
Std Dev 0
pull1D
Entries 94
Mean 0.04151
Std Dev 1.271

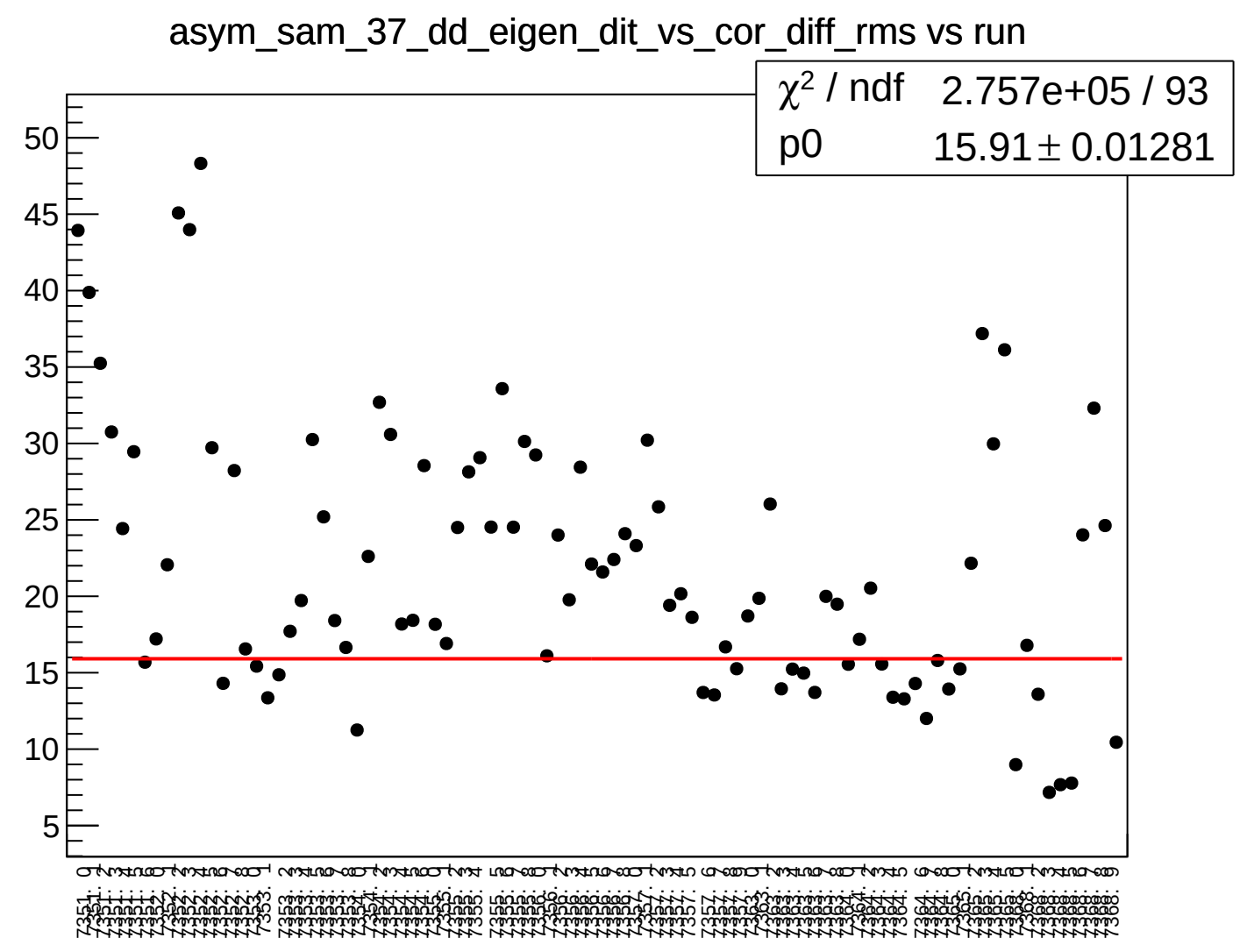

asym_sam_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.757e+05 / 93
p0 15.91 ± 0.01281
50
45
40
35
30
25
20
15
10
5

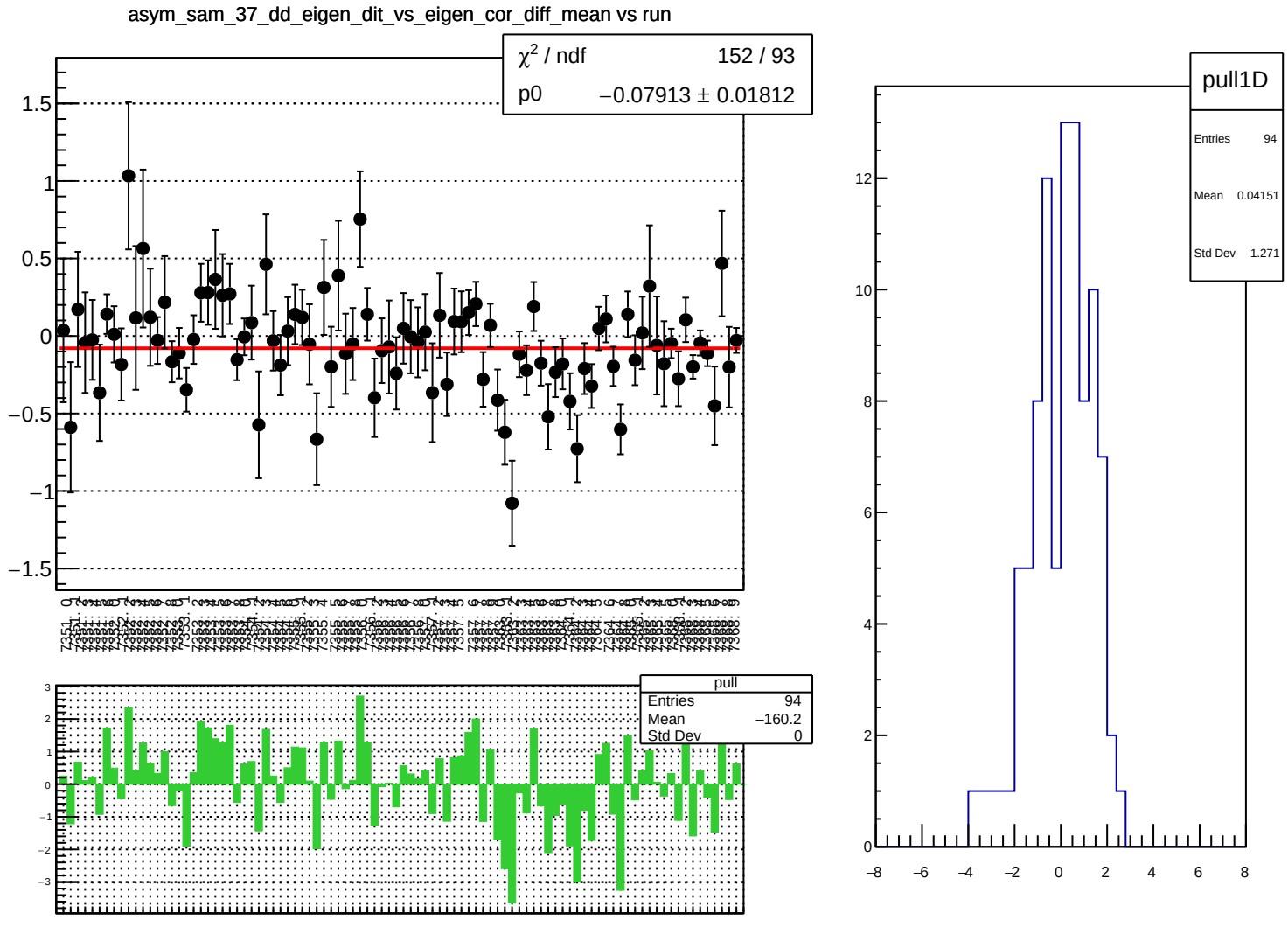

asym_sam_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 211.1 / 93
p0 −3.385e−08 ± 9.819e−07
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 94
Mean −297.6
Std Dev 0
3
2
1
0
−1
−2
−3
−4
−5

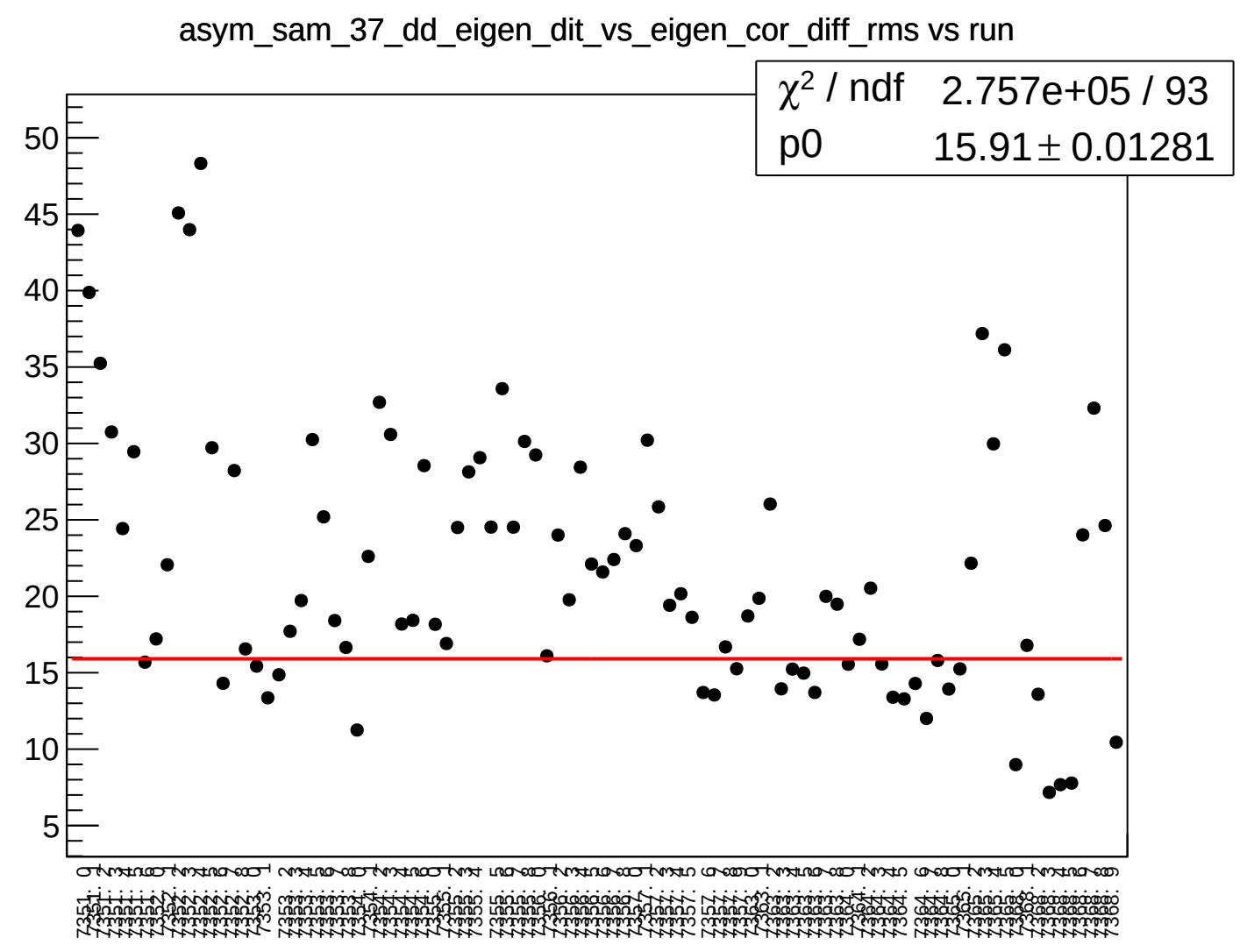

pull1D
Entries 94
Mean −0.01157
Std Dev 1.499
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

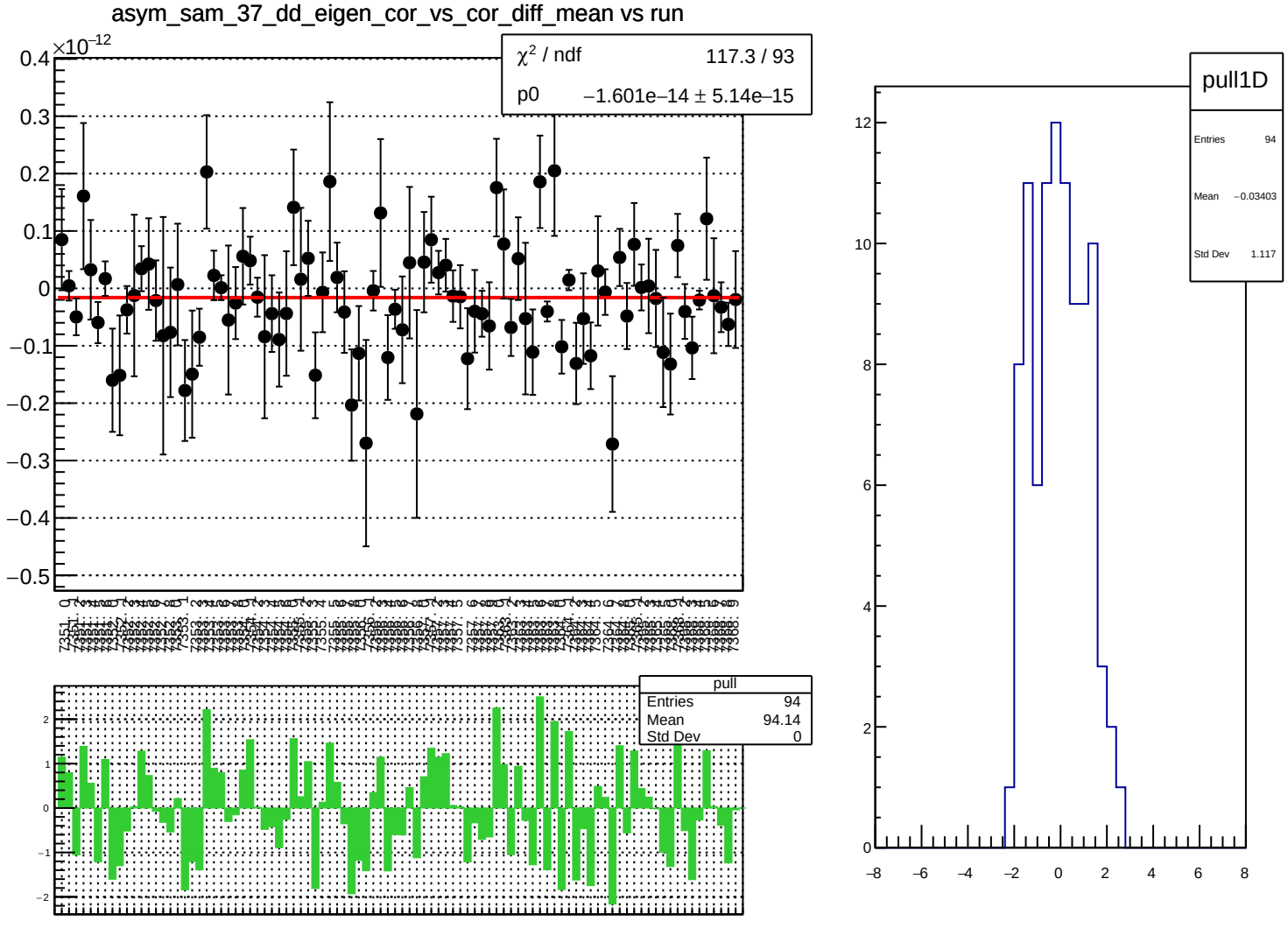

asym_sam_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6058 / 93
p0 0.0009348 ± 6.943e−07
0.0011
0.00105
0.001
0.00095
0.0009
0.00085
0.0008

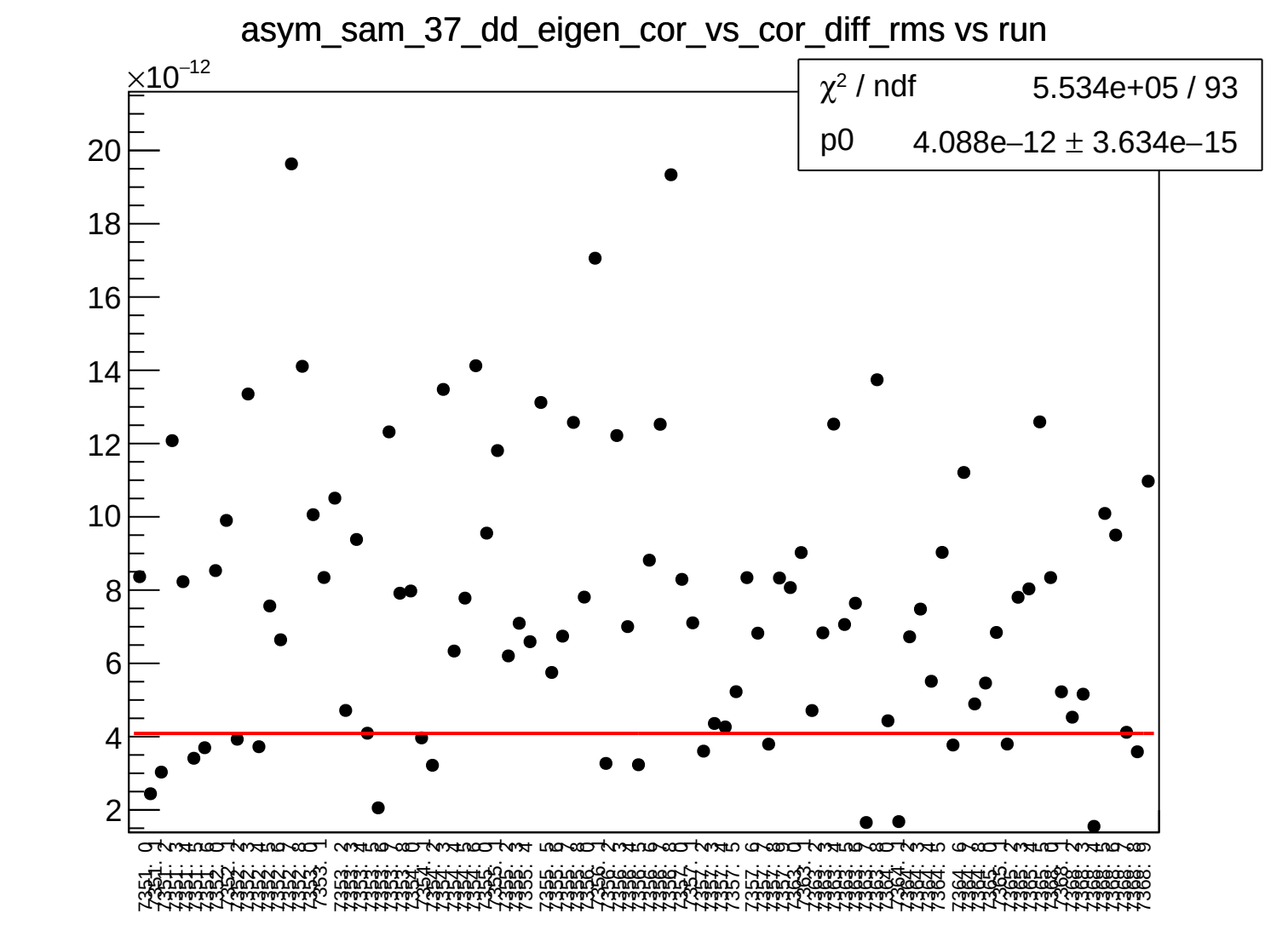

asym_sam_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 152 / 93
p0 −0.07913 ± 0.01812
pull
Entries 94
Mean −160.2
Std Dev 0
pull1D
Entries 94
Mean 0.04151
Std Dev 1.271

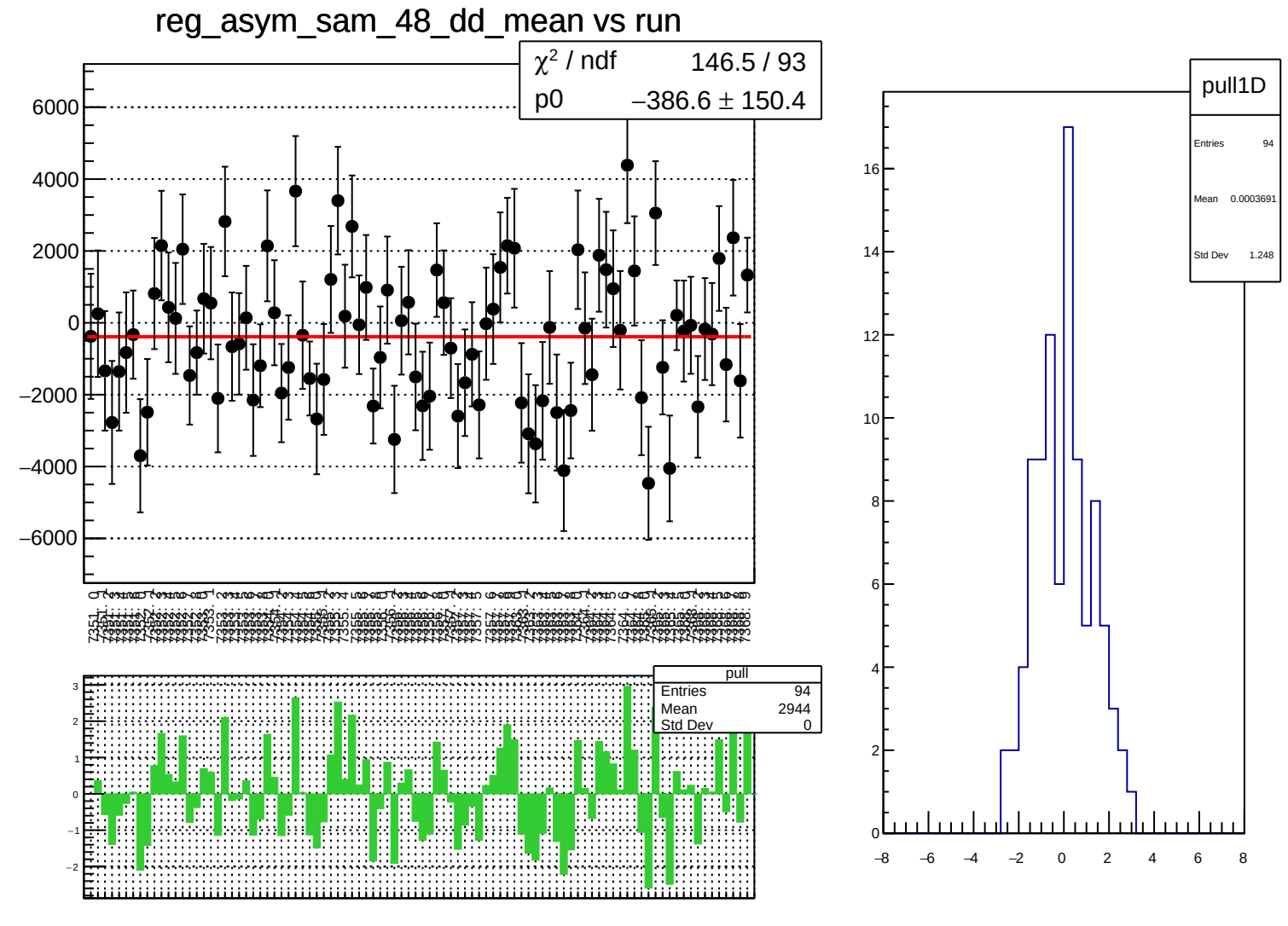

asym_sam_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.757e+05 / 93
p0 15.91 ± 0.01281
50
45
40
35
30
25
20
15
10
5

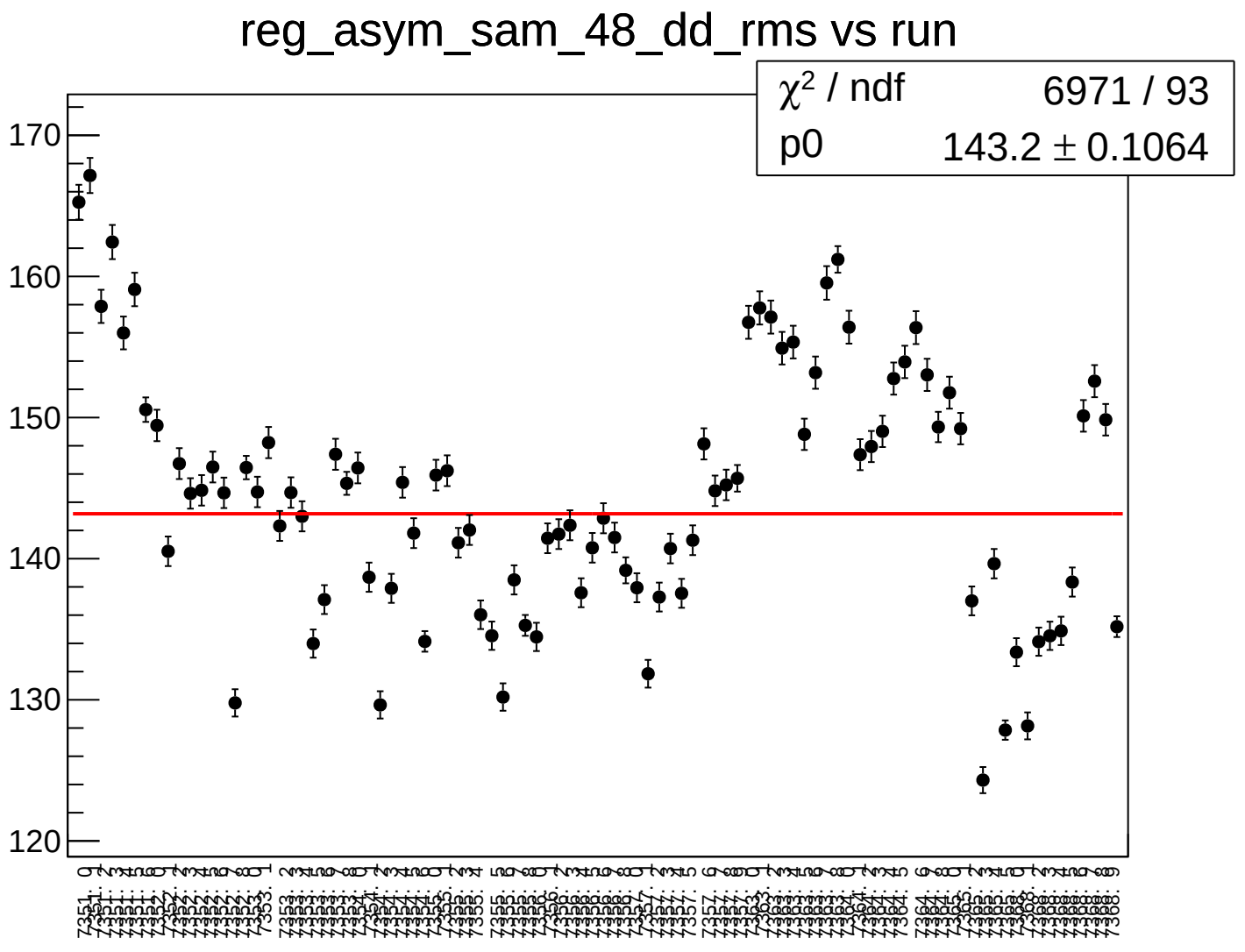

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 152 / 93
p0 −0.07913 ± 0.01812
pull
Entries 94
Mean −160.2
Std Dev 0
pull1D
Entries 94
Mean 0.04151
Std Dev 1.271

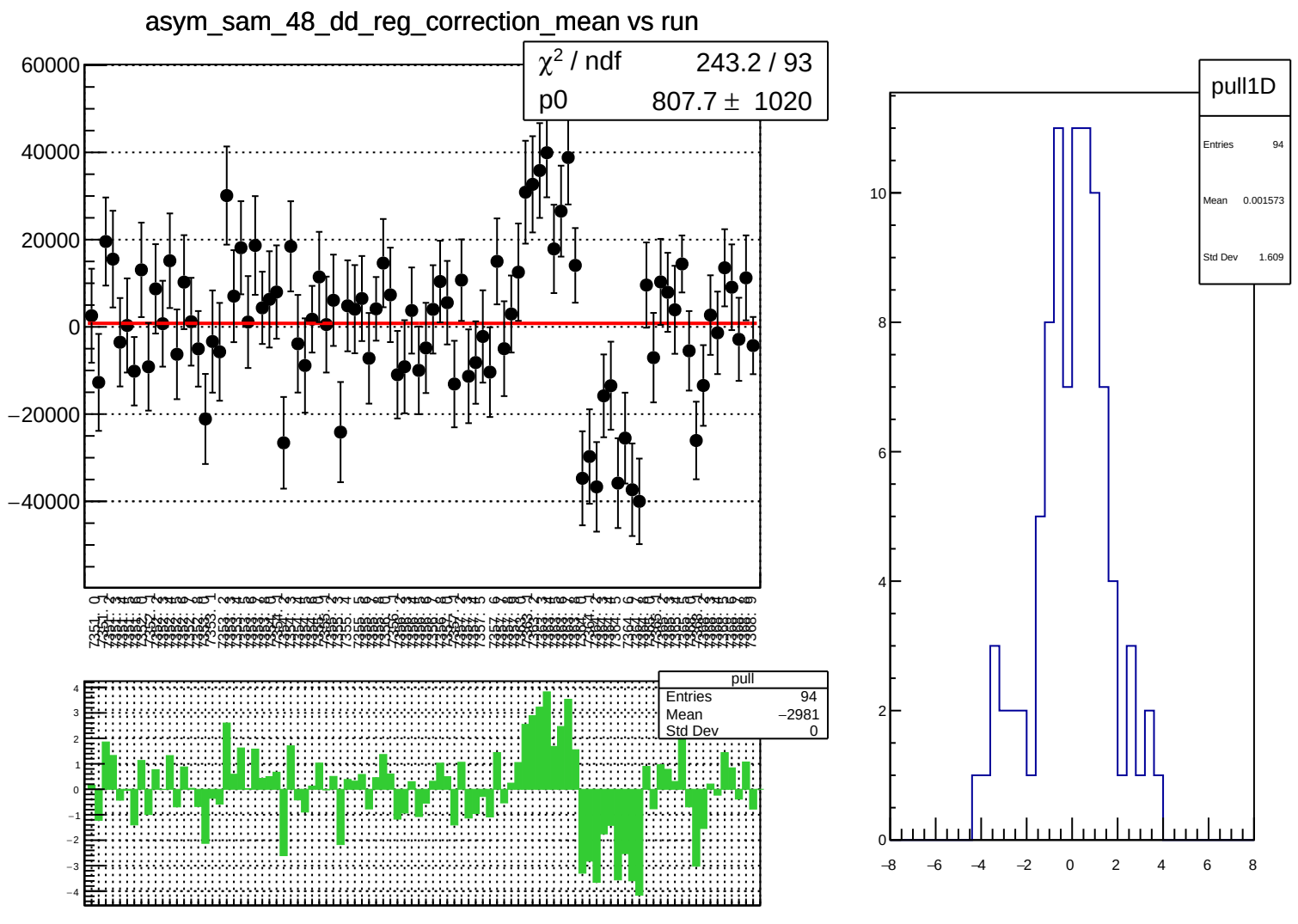

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.757e+05 / 93
p0 15.91 ± 0.01281
50
45
40
35
30
25
20
15
10
5

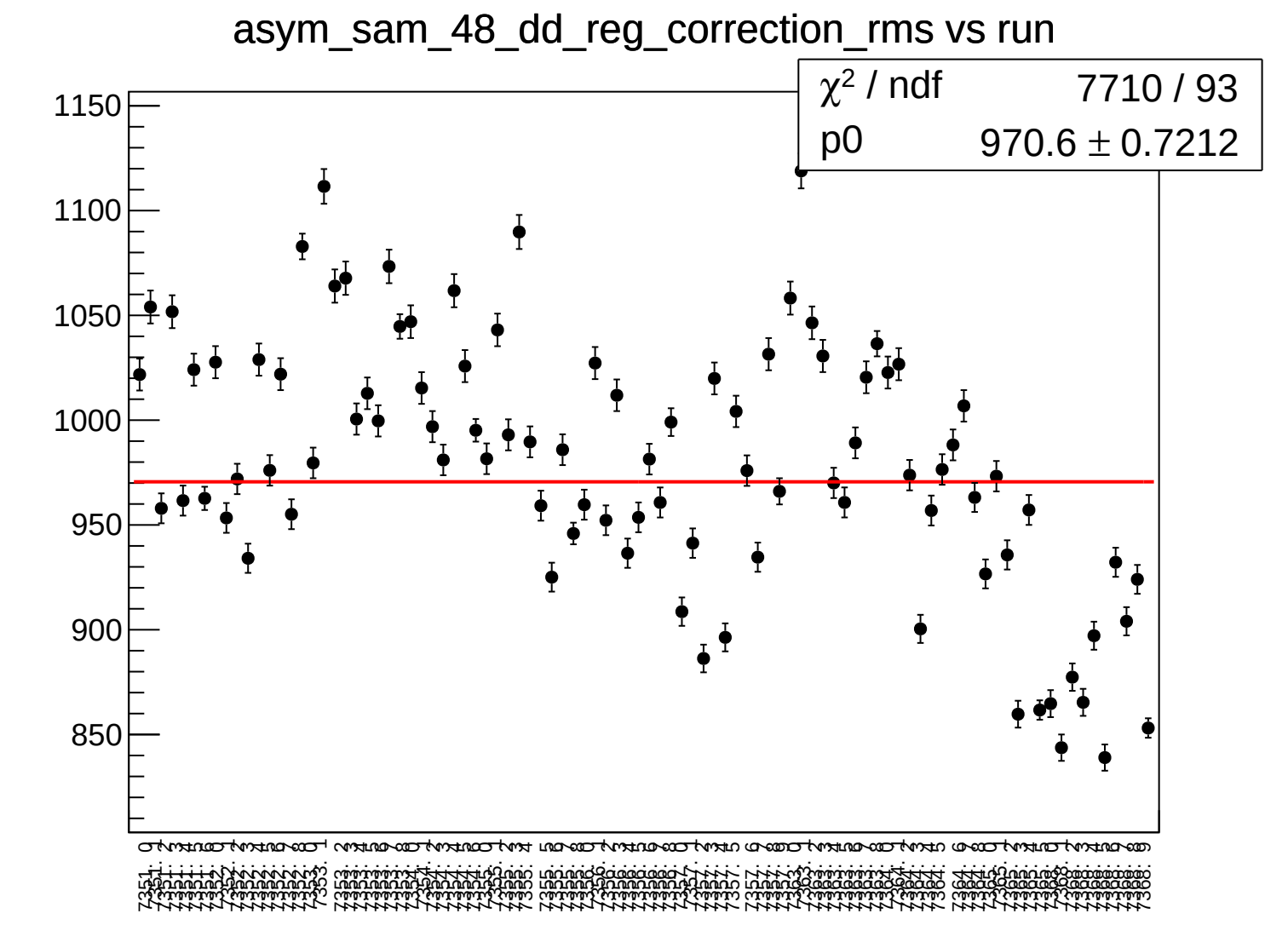

asym_sam_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 117.3 / 93
p0 −1.601e−14 ± 5.14e−15
pull
Entries 94
Mean 94.14
Std Dev 0
pull1D
Entries 94
Mean −0.03403
Std Dev 1.117

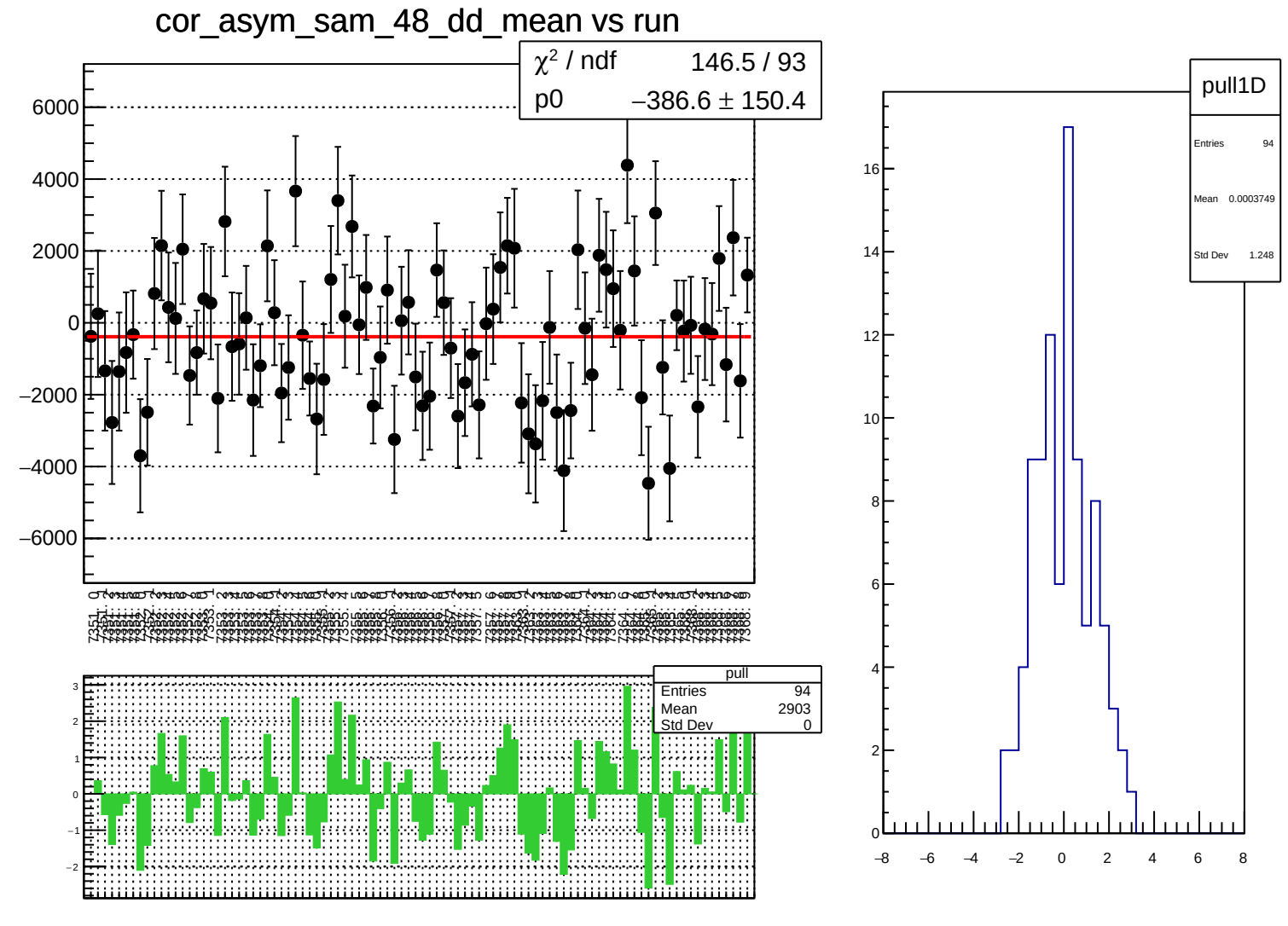

asym_sam_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.534e+05 / 93
p0 4.088e−12 ± 3.634e−15
20
18
16
14
12
10
8
6
4
2

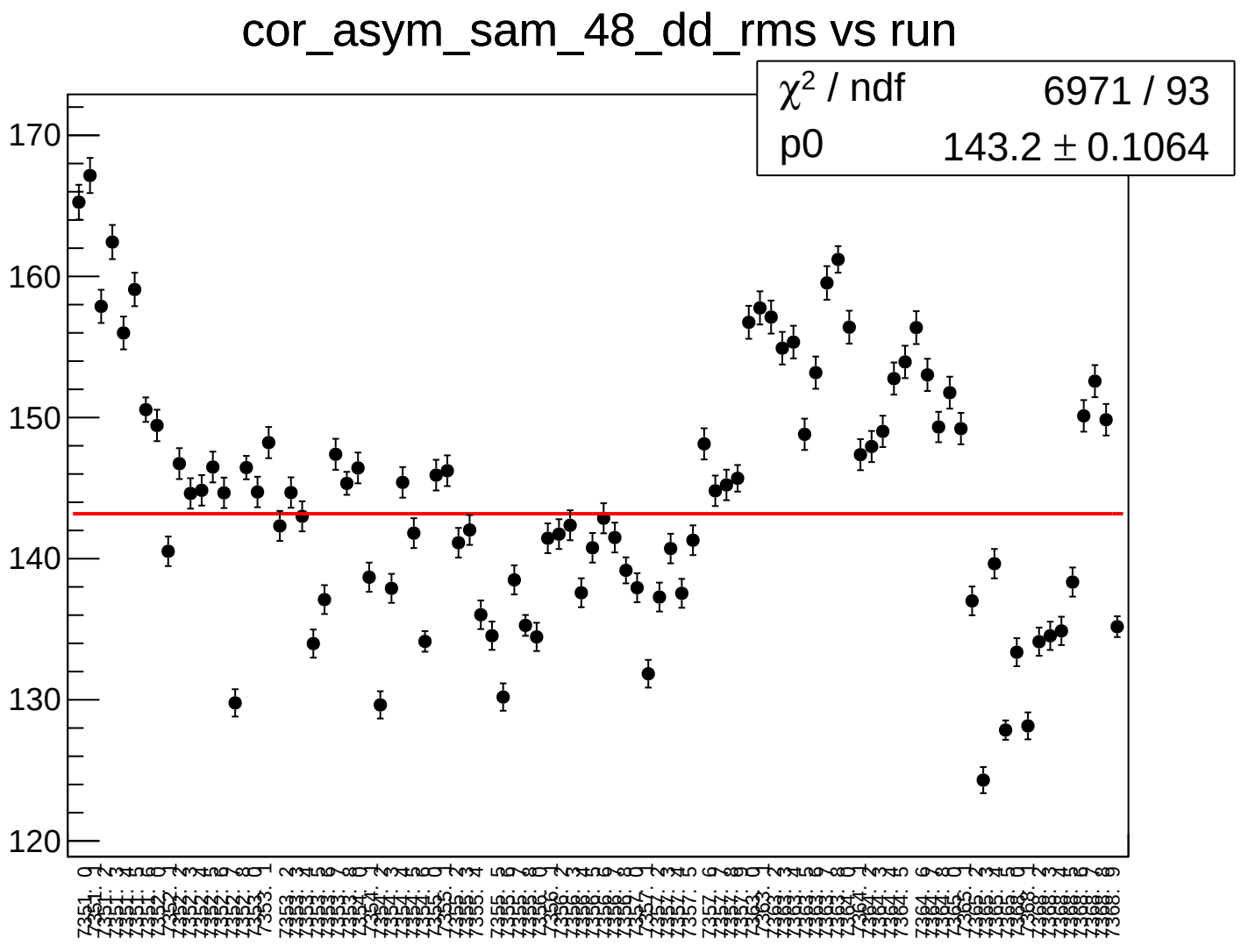

reg_asym_sam_48_dd_mean vs run
χ² / ndf 146.5 / 93
p0 −386.6 ± 150.4
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean 2944
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.0003691
Std Dev 1.248
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

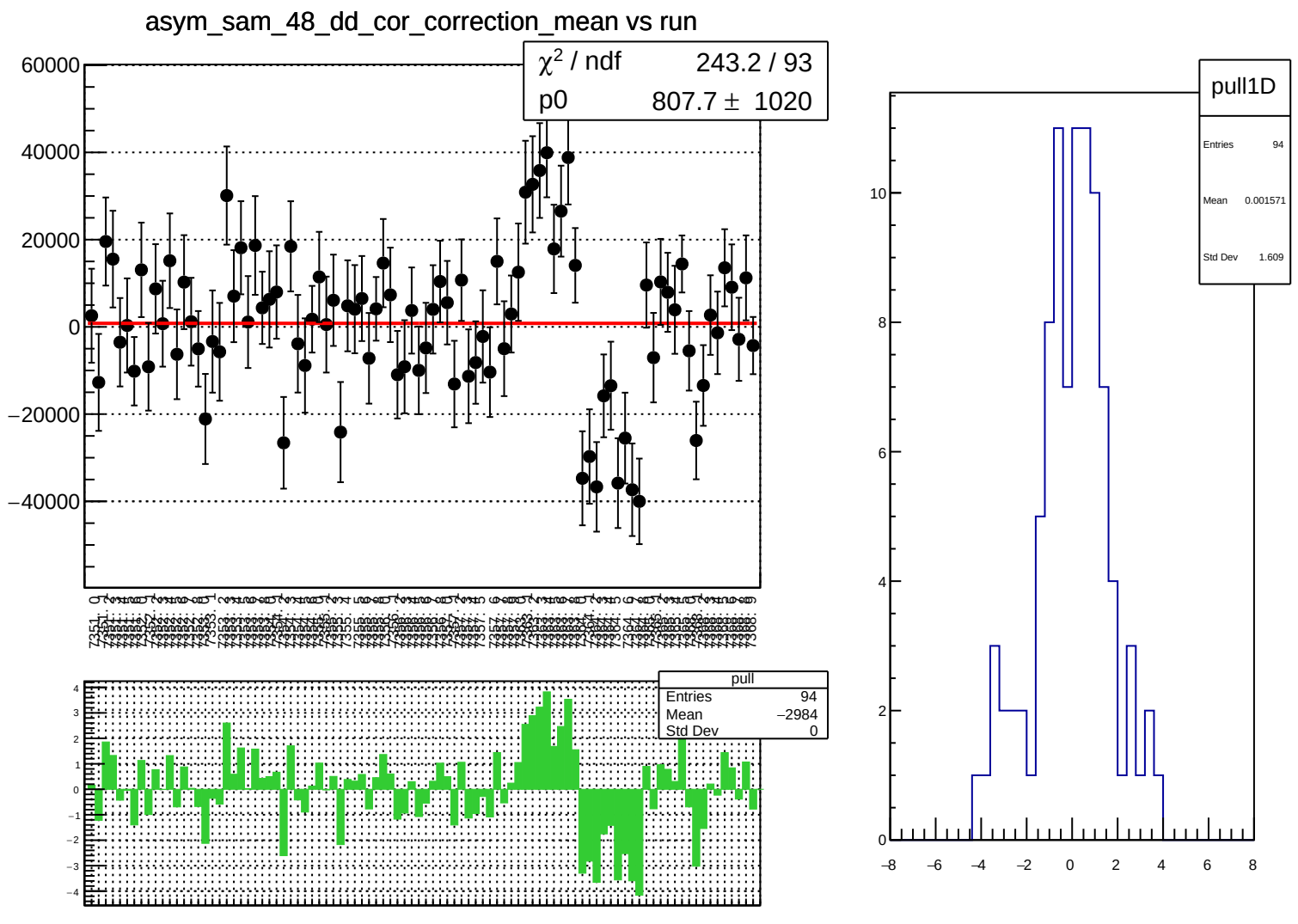

reg_asym_sam_48_dd_rms vs run
χ^2 / ndf 6971 / 93
p0 143.2 ± 0.1064
170
160
150
140
130
120

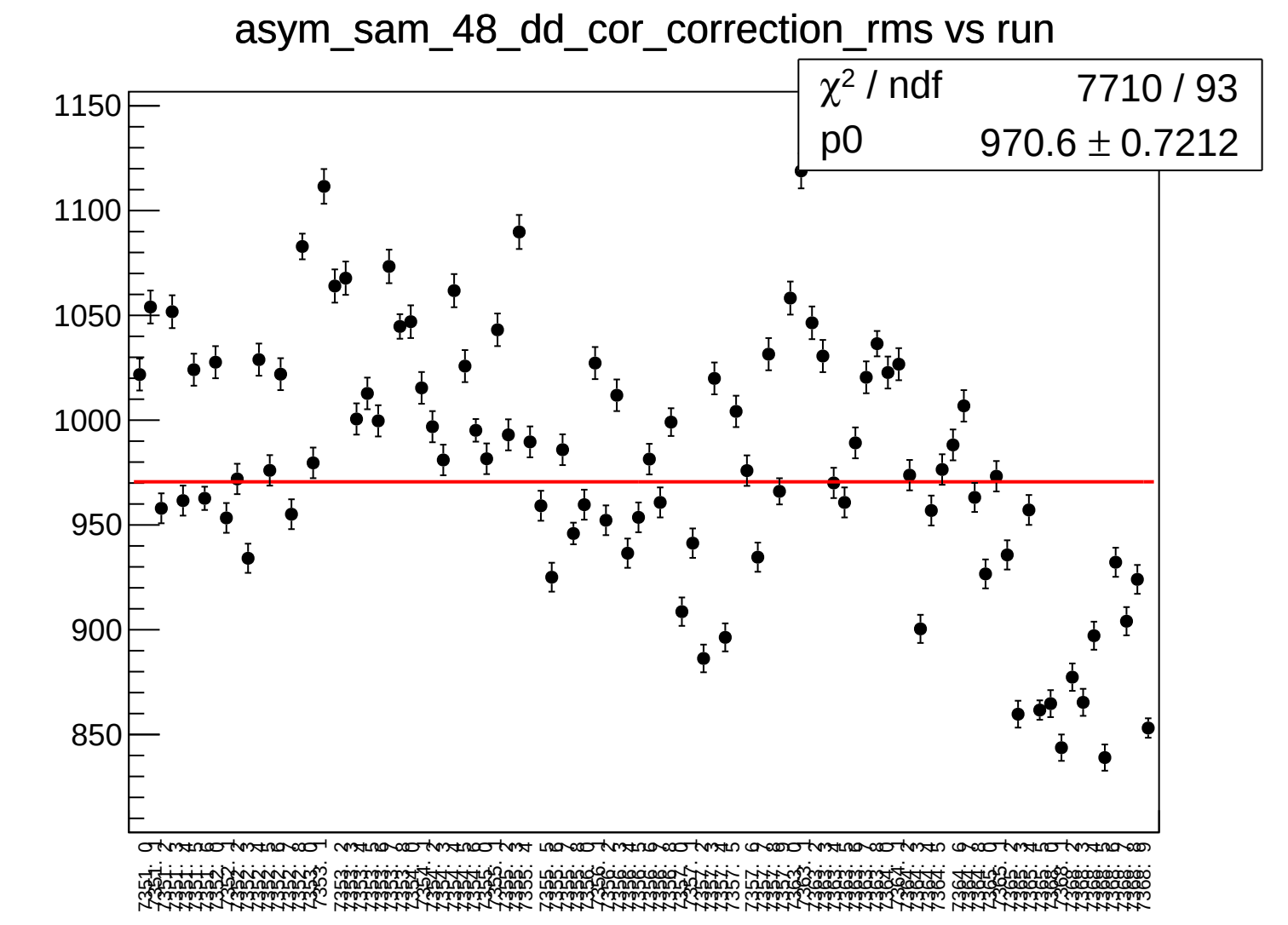

asym_sam_48_dd_reg_correction_mean vs run
χ² / ndf 243.2 / 93
p0 807.7 ± 1020
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −2981
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 94
Mean 0.001573
Std Dev 1.609
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

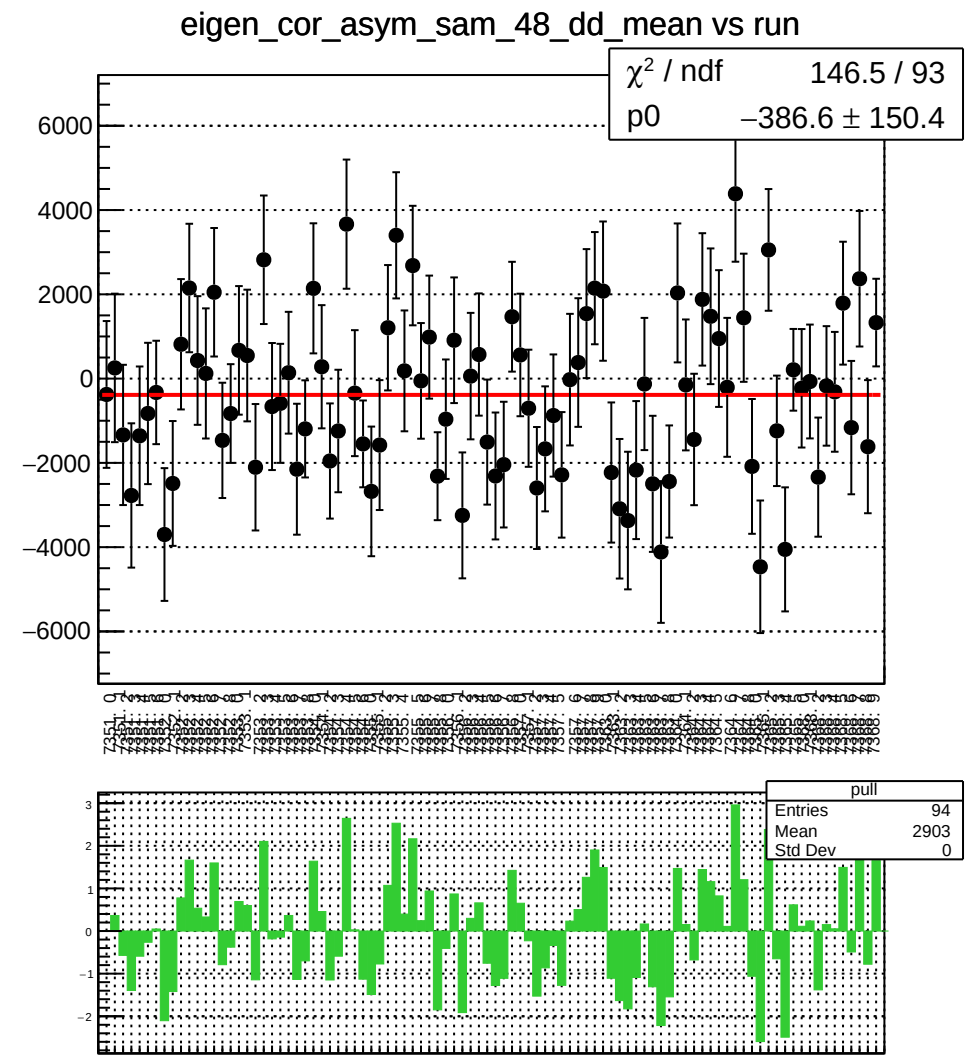

asym_sam_48_dd_reg_correction_rms vs run
χ² / ndf 7710 / 93
p0 970.6 ± 0.7212
1150
1100
1050
1000
950
900
850

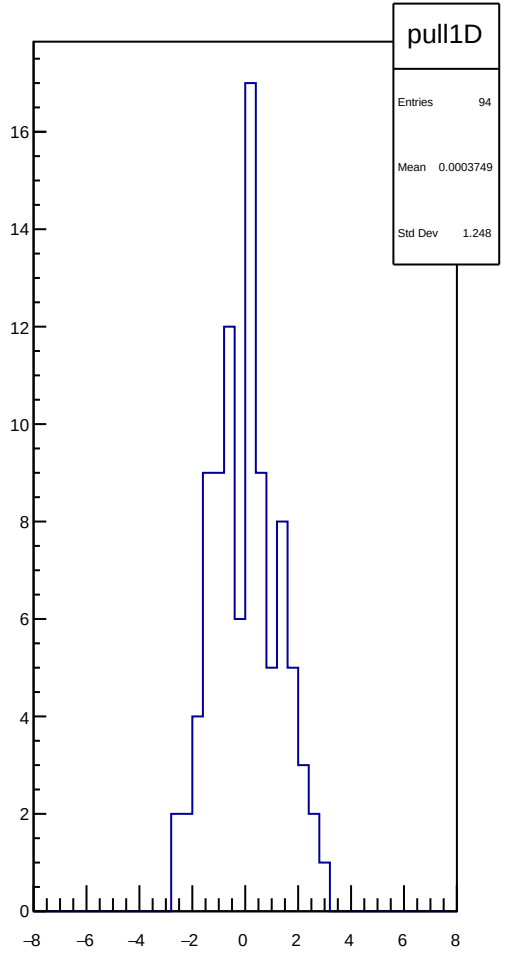

cor_asym_sam_48_dd_mean vs run
χ² / ndf 146.5 / 93
p0 −386.6 ± 150.4
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean 2903
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.0003749
Std Dev 1.248
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

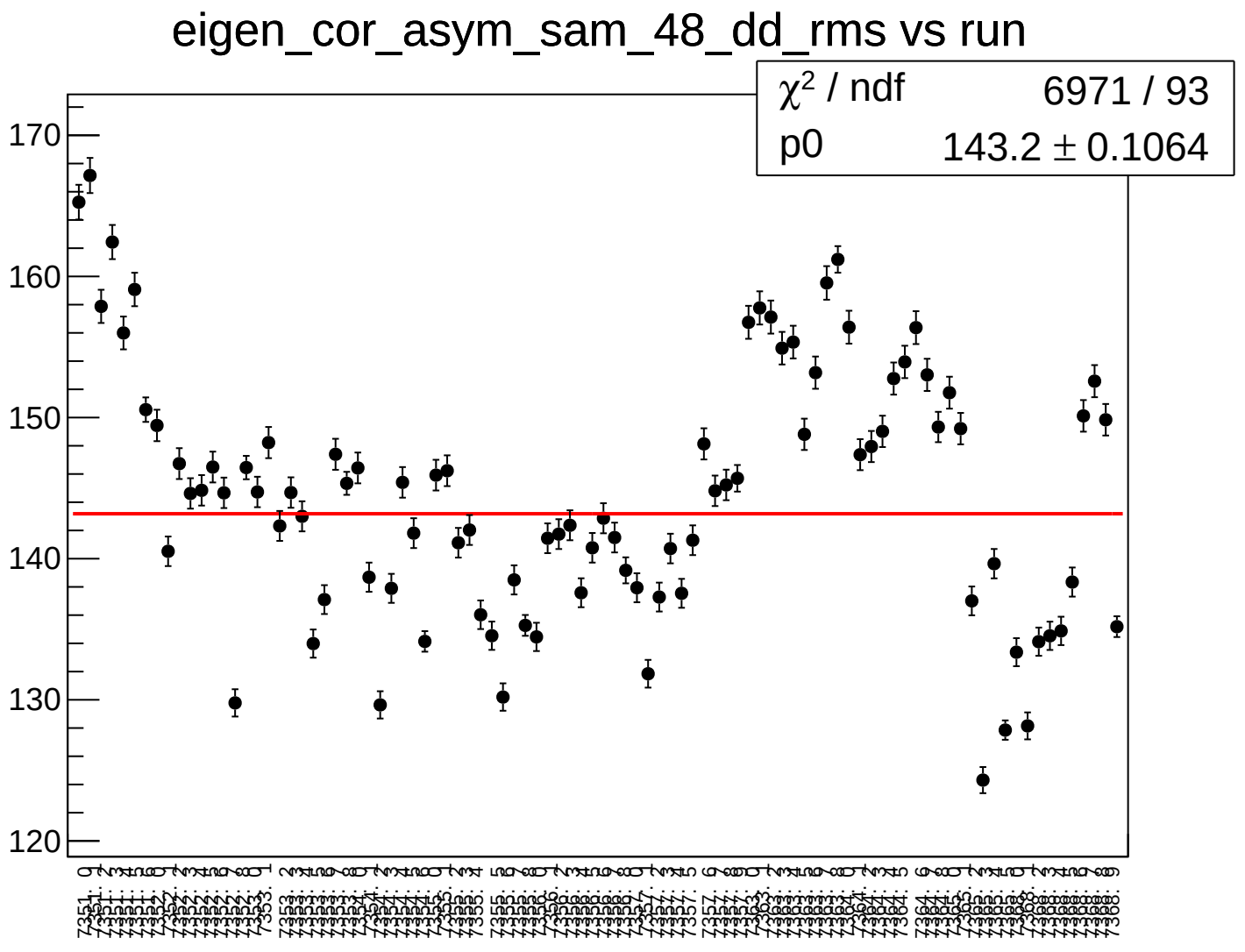

cor_asym_sam_48_dd_rms vs run
χ² / ndf 6971 / 93
p0 143.2 ± 0.1064
170
160
150
140
130
120

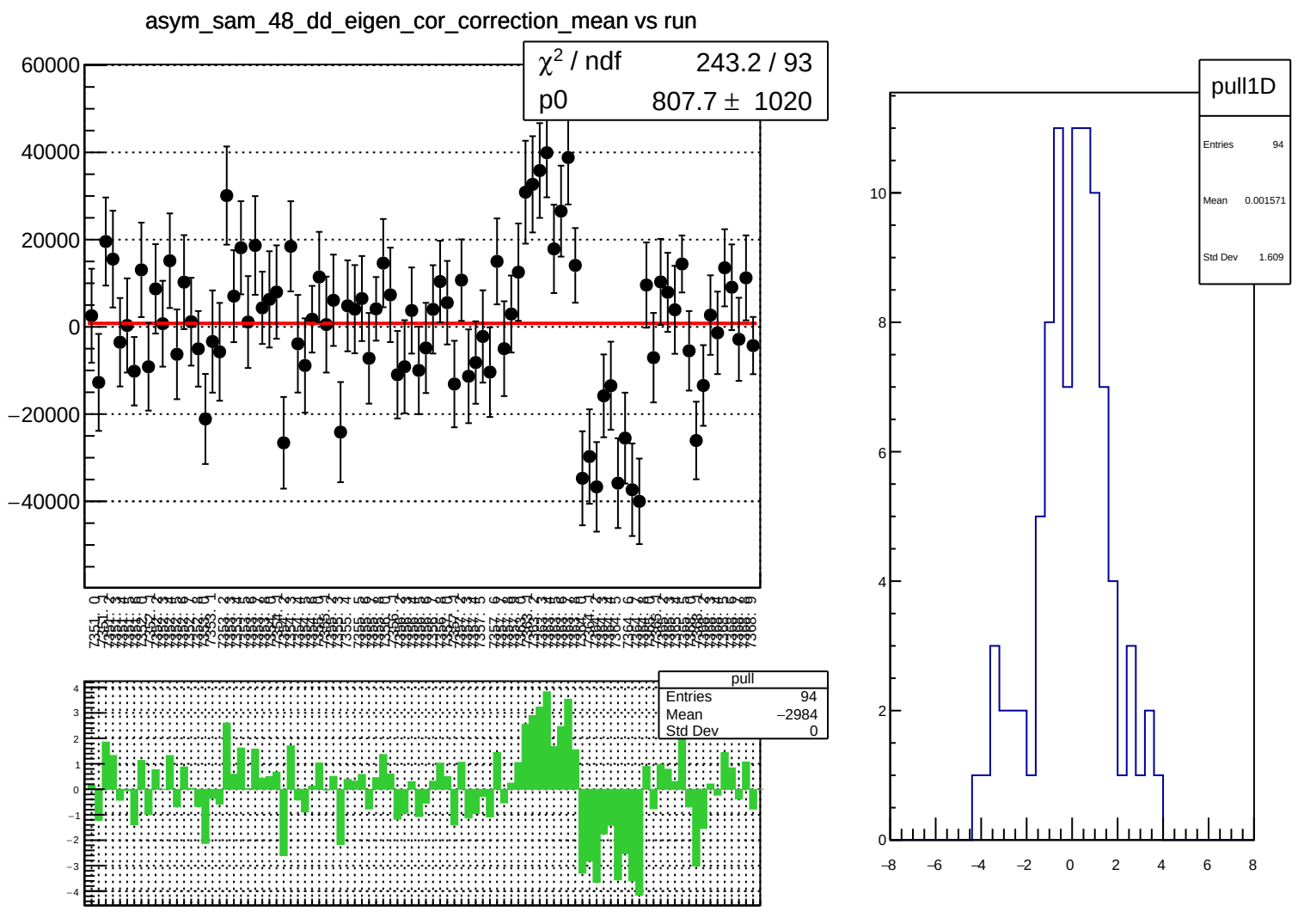

asym_sam_48_dd_cor_correction_mean vs run
χ² / ndf 243.2 / 93
p0 807.7 ± 1020
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −2984
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 94
Mean 0.001571
Std Dev 1.609
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

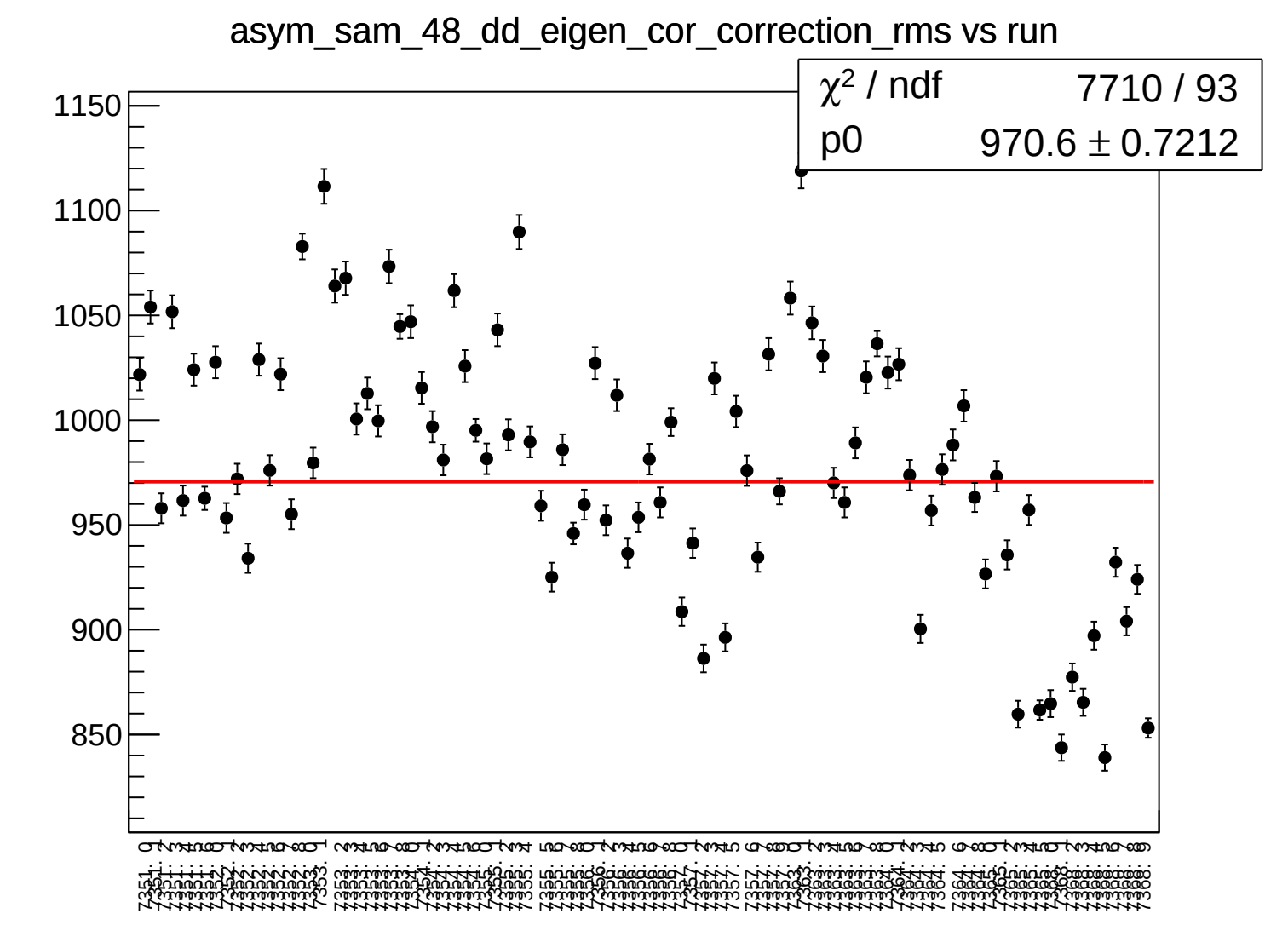

asym_sam_48_dd_cor_correction_rms vs run
χ² / ndf 7710 / 93
p0 970.6 ± 0.7212
1150
1100
1050
1000
950
900
850

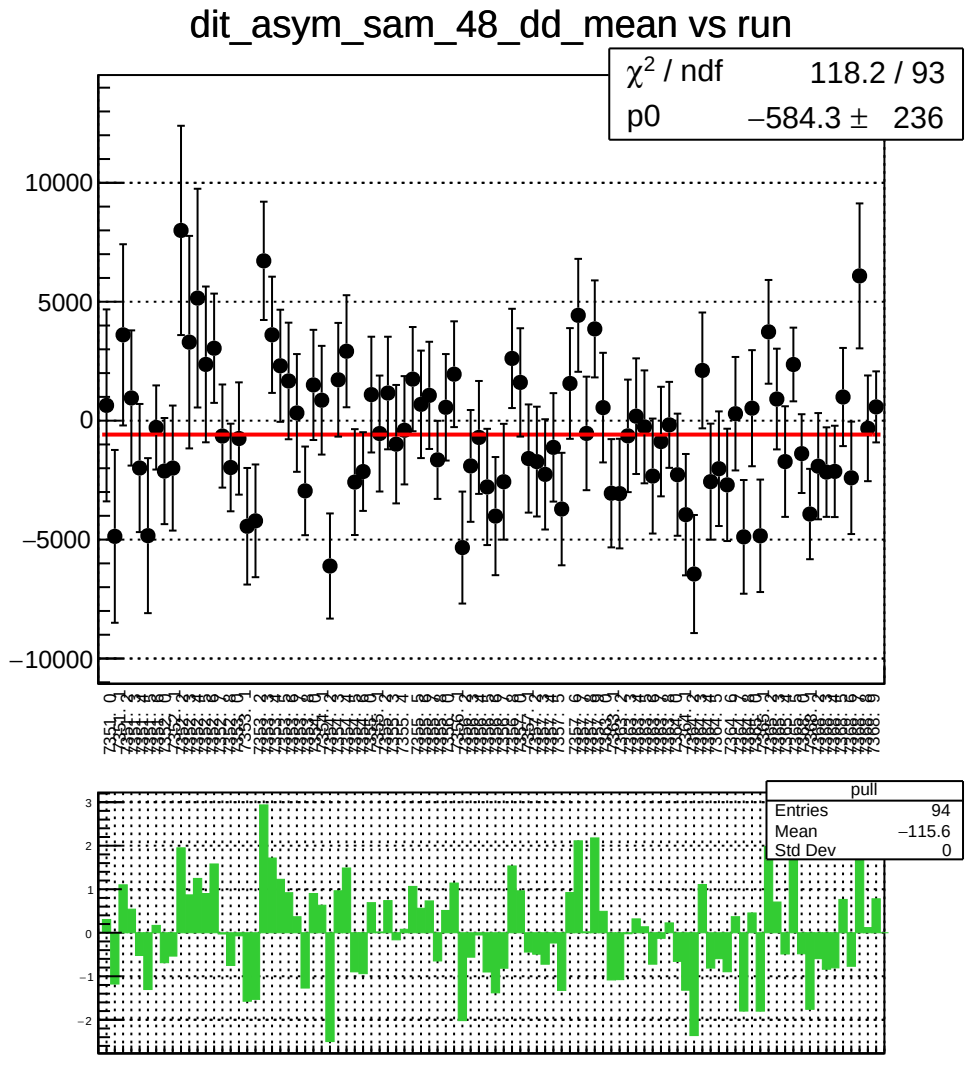

eigen_cor_asym_sam_48_dd_mean vs run
χ² / ndf 146.5 / 93
p0 −386.6 ± 150.4
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean 2903
Std Dev 0
3
2
1
0
−1
−2

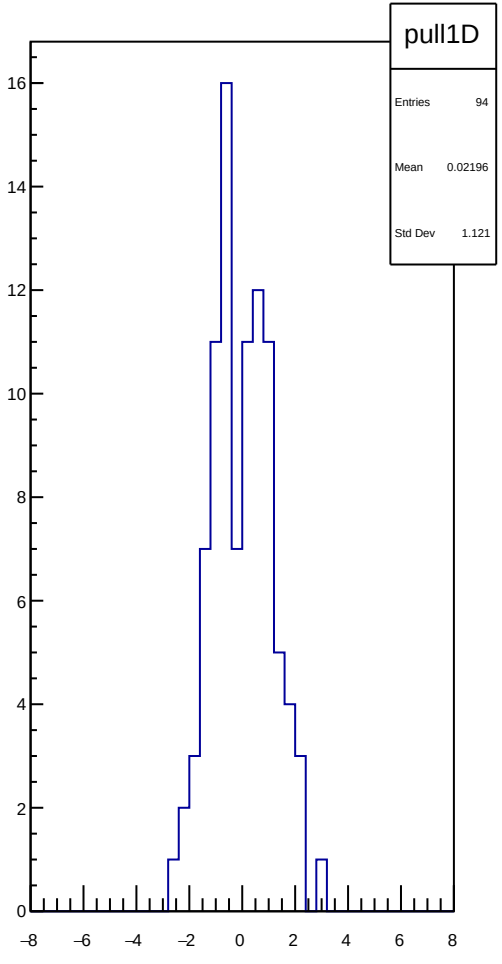

pull1D
Entries 94
Mean 0.0003749
Std Dev 1.248
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

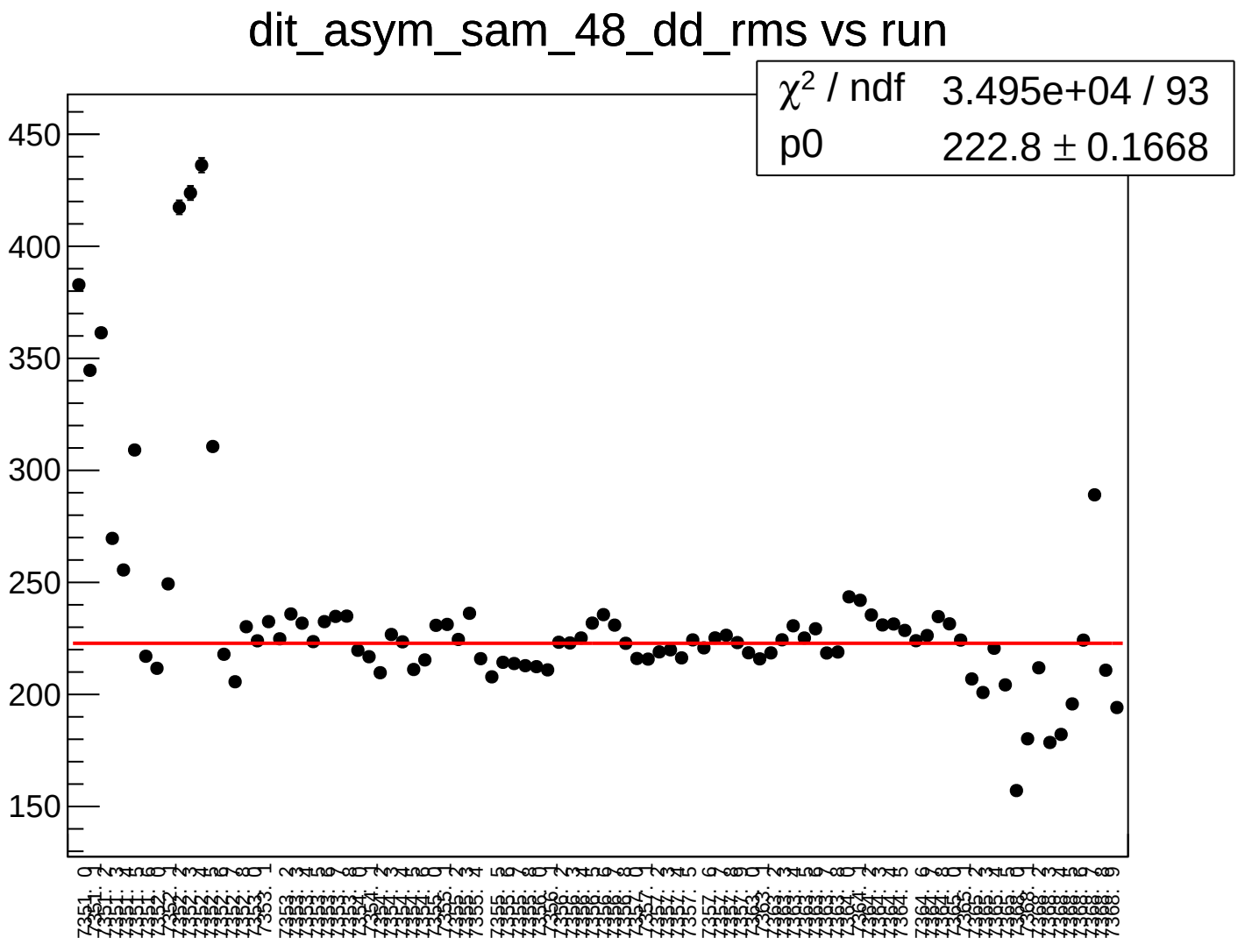

eigen_cor_asym_sam_48_dd_rms vs run
χ² / ndf 6971 / 93
p0 143.2 ± 0.1064
170
160
150
140
130
120

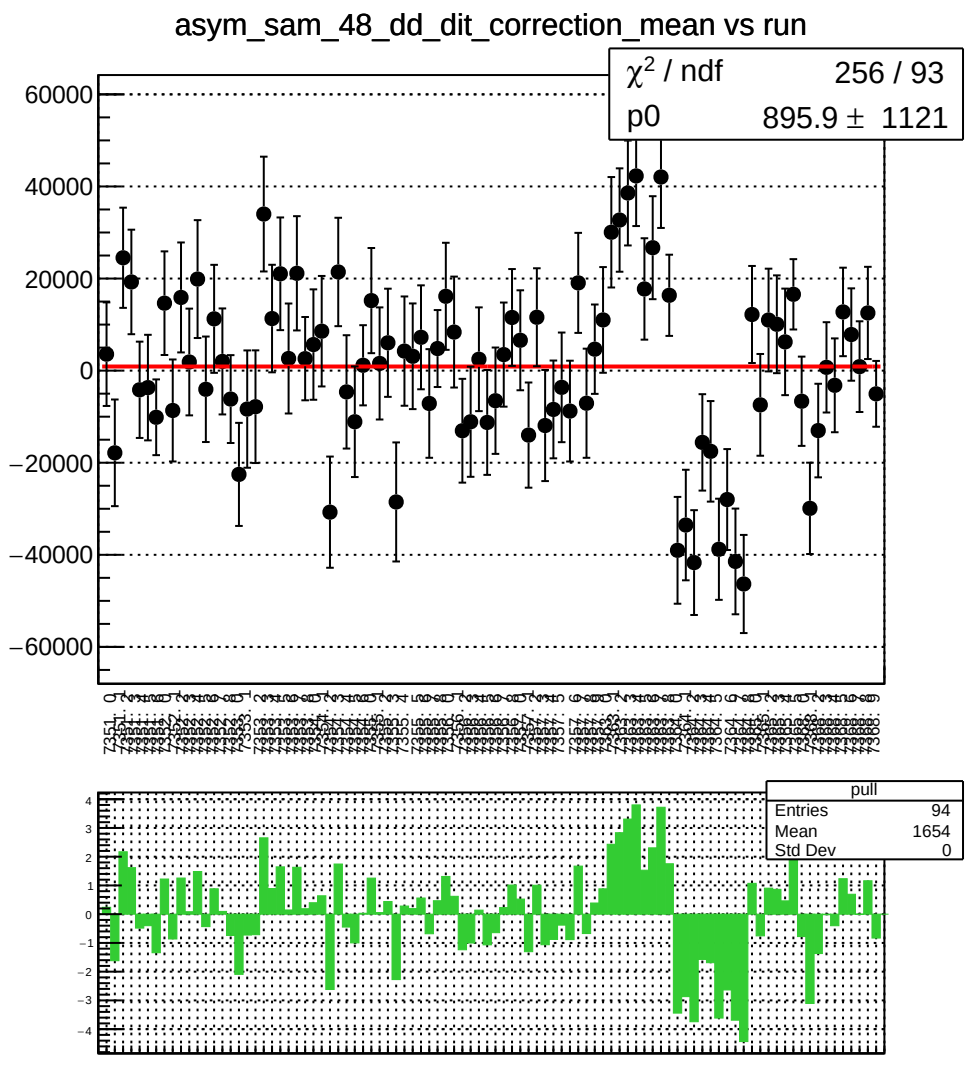

asym_sam_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 243.2 / 93
p0 807.7 ± 1020
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −2984
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 94
Mean 0.001571
Std Dev 1.609
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

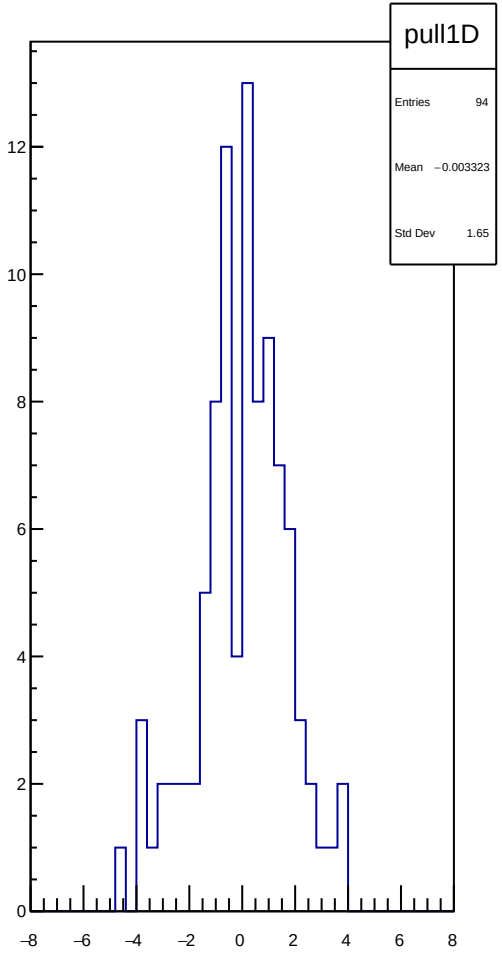

asym_sam_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 7710 / 93
p0 970.6 ± 0.7212
1150
1100
1050
1000
950
900
850

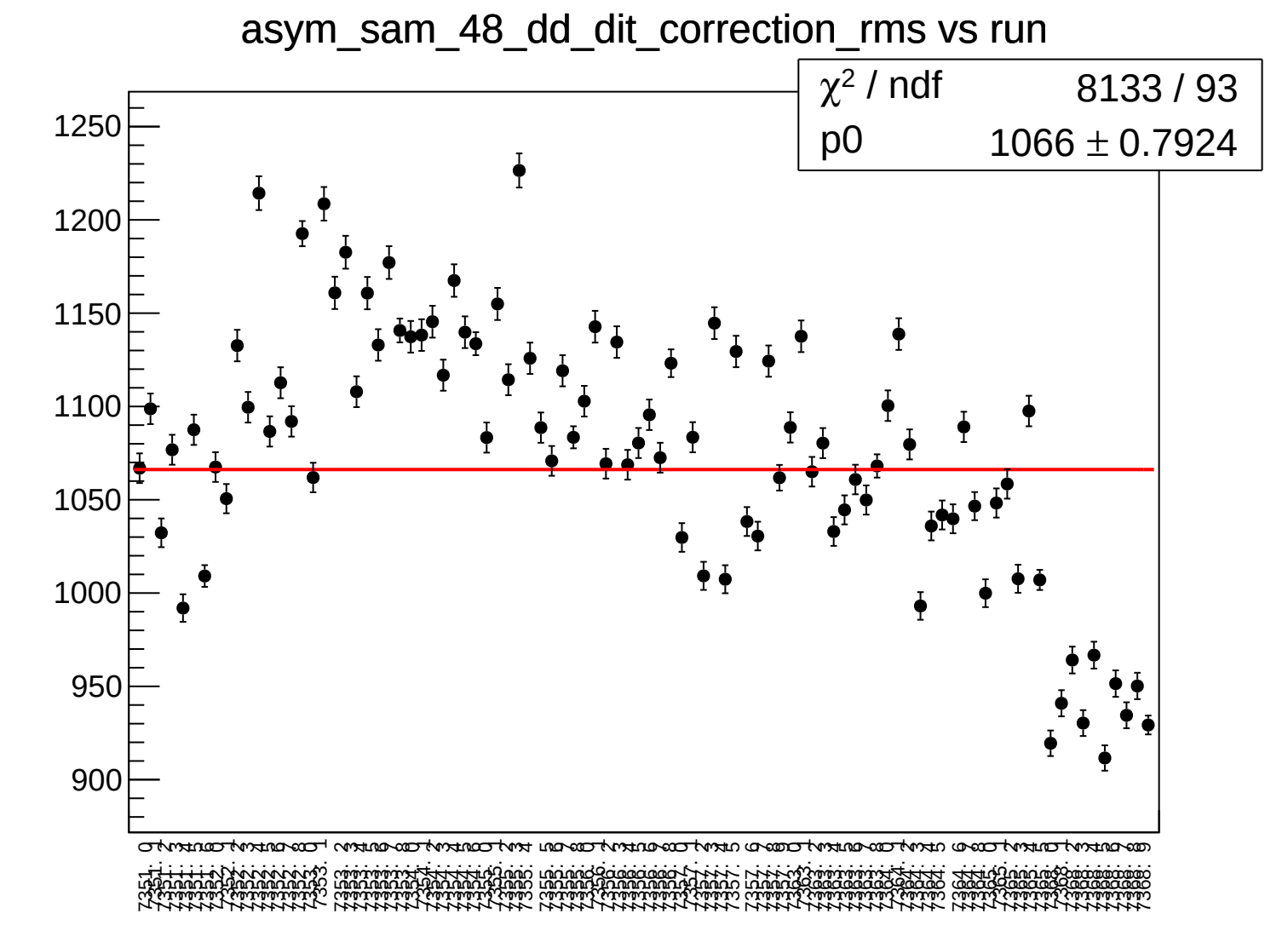

dit_asym_sam_48_dd_mean vs run
χ² / ndf 118.2 / 93
p0 −584.3 ± 236
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −115.6
Std Dev 0
3
2
1
0
−1
−2

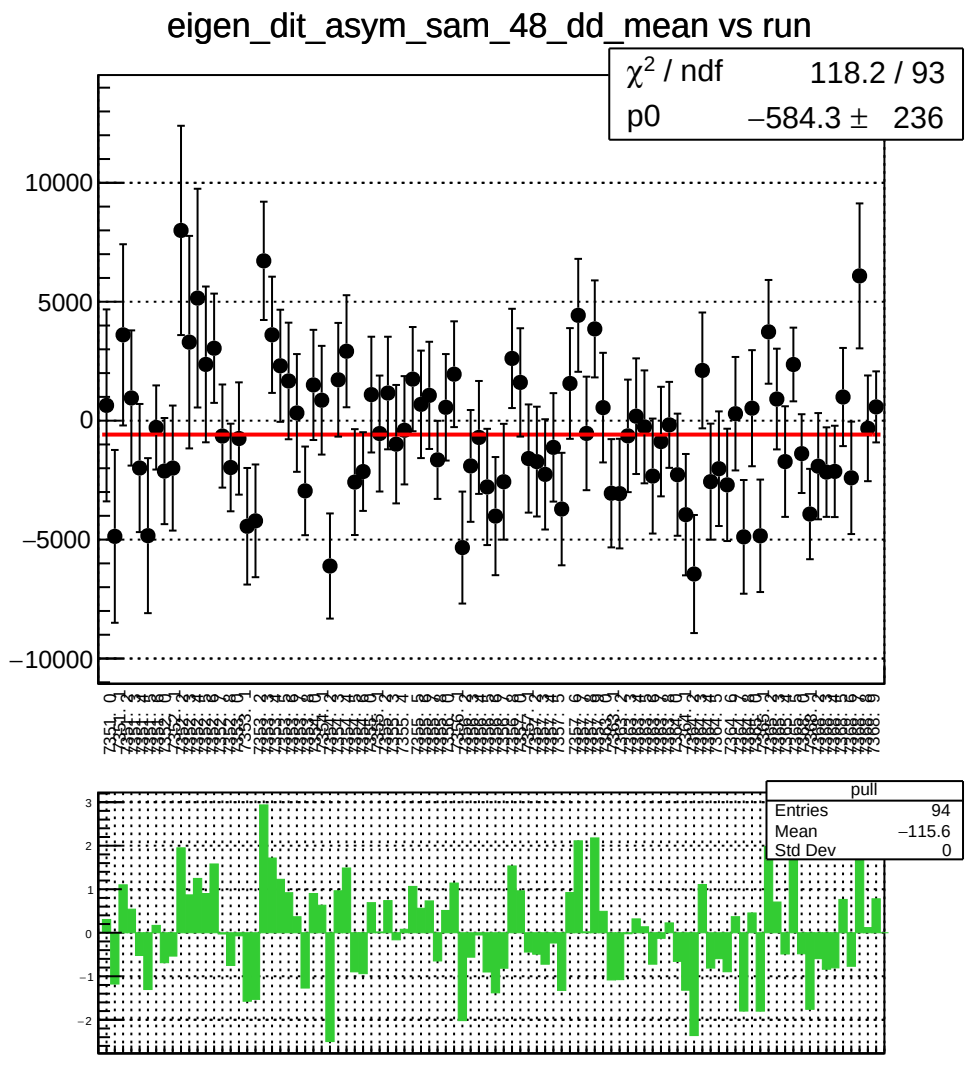

pull1D
Entries 94
Mean 0.02196
Std Dev 1.121
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

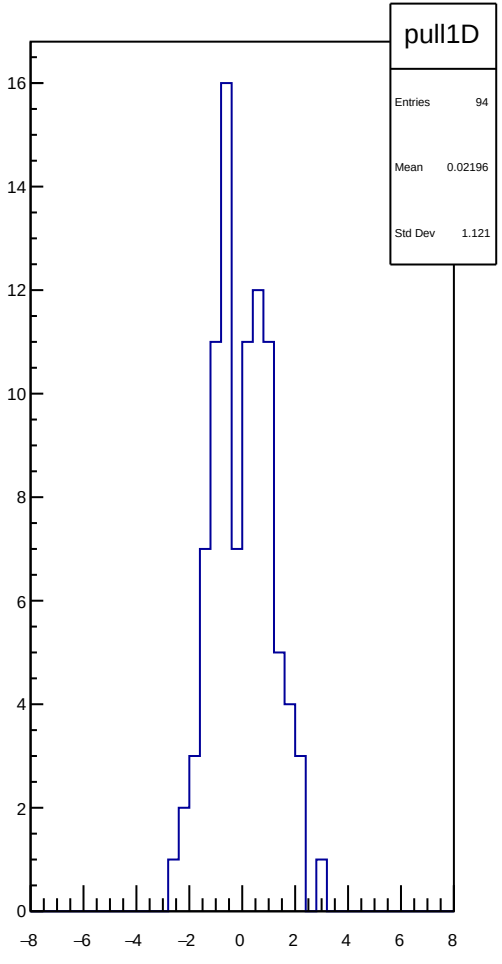

dit_asym_sam_48_dd_rms vs run
χ² / ndf 3.495e+04 / 93
p0 222.8 ± 0.1668
450
400
350
300
250
200
150

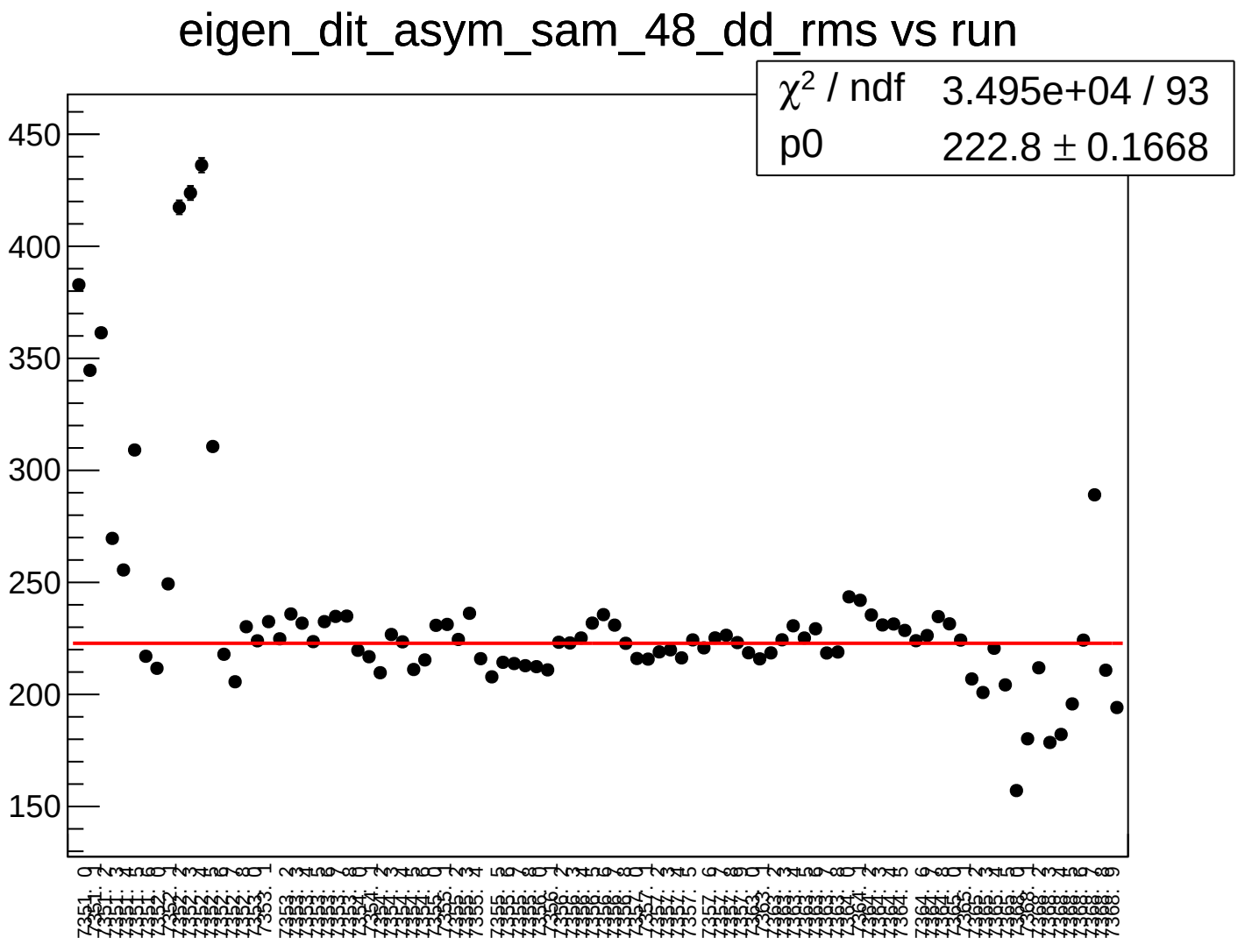

asym_sam_48_dd_dit_correction_mean vs run
χ² / ndf 256 / 93
p0 895.9 ± 1121
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 1654
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4

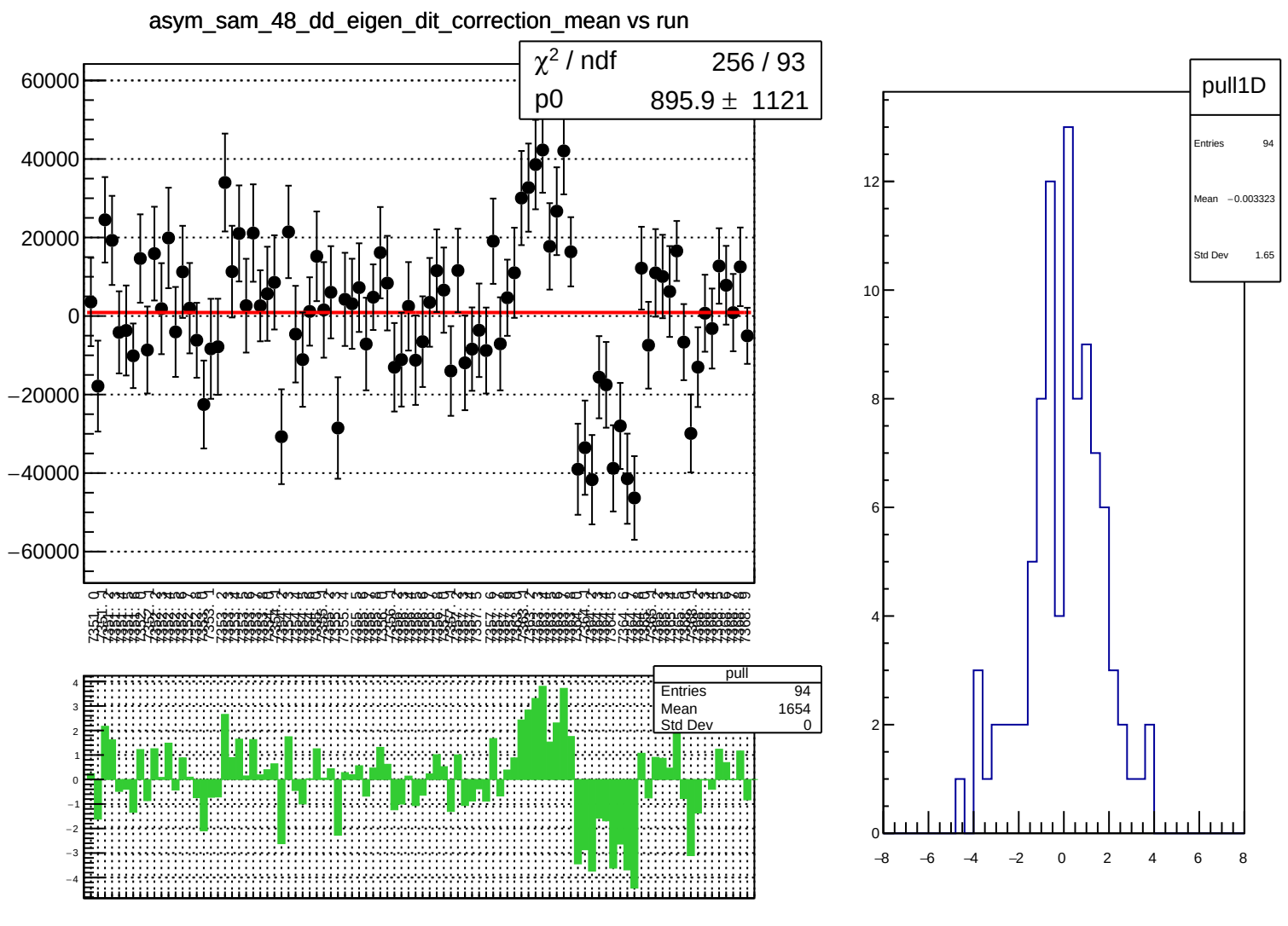

pull1D
Entries 94
Mean −0.003323
Std Dev 1.65
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

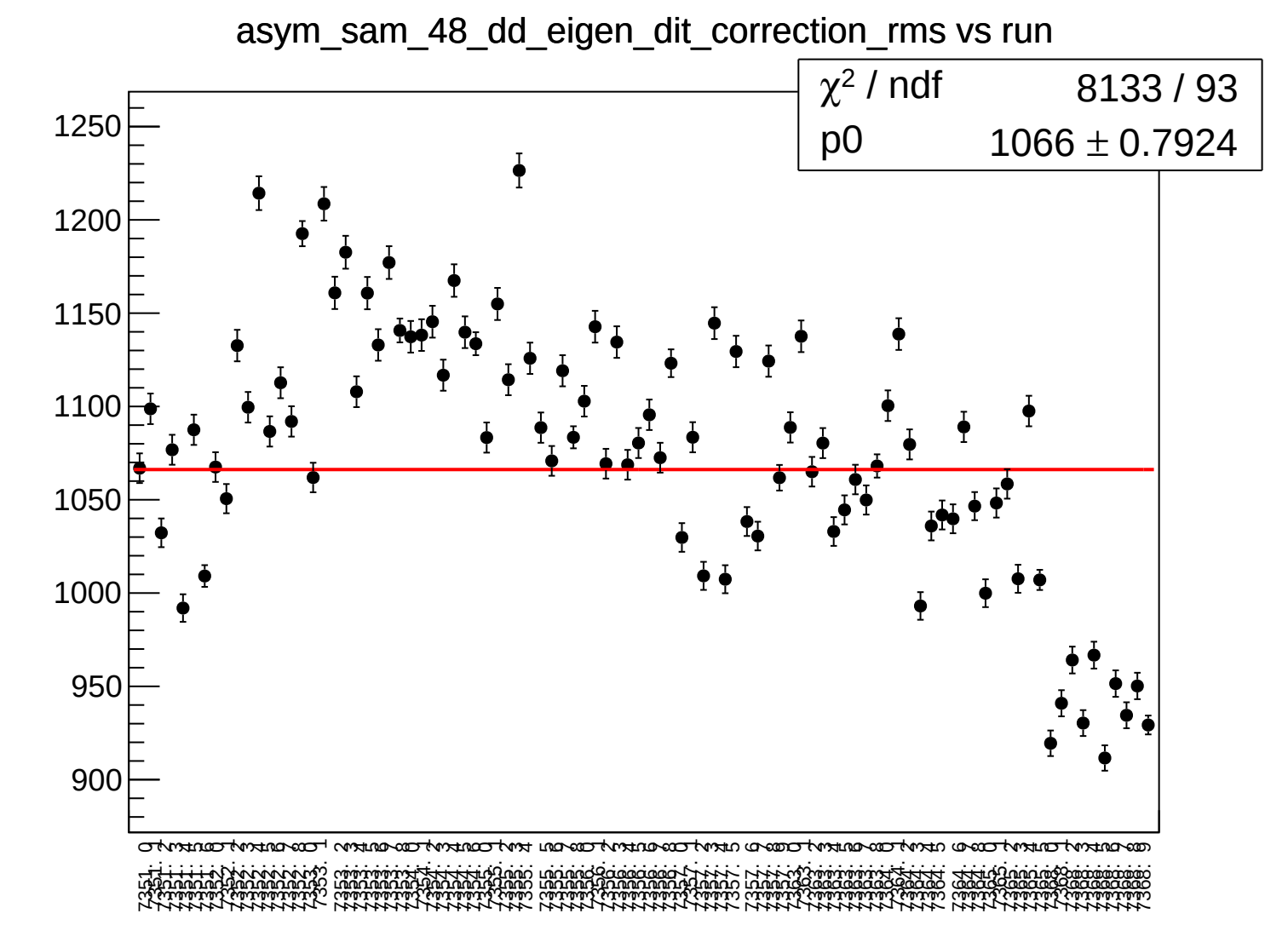

asym_sam_48_dd_dit_correction_rms vs run
χ² / ndf 8133 / 93
p0 1066 ± 0.7924
1250
1200
1150
1100
1050
1000
950
900

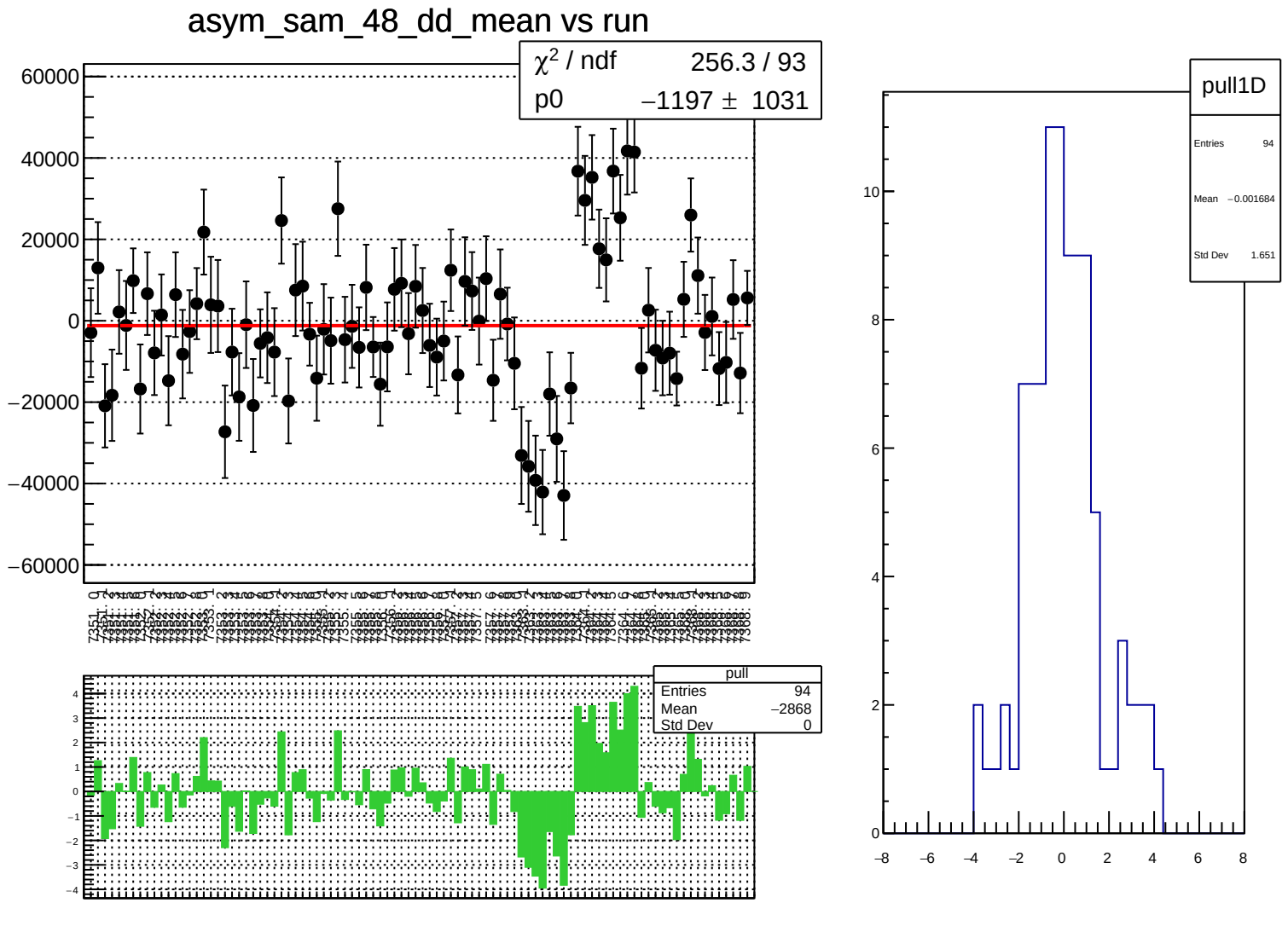

eigen_dit_asym_sam_48_dd_mean vs run
χ² / ndf 118.2 / 93
p0 −584.3 ± 236
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −115.6
Std Dev 0
3
2
1
0
−1
−2

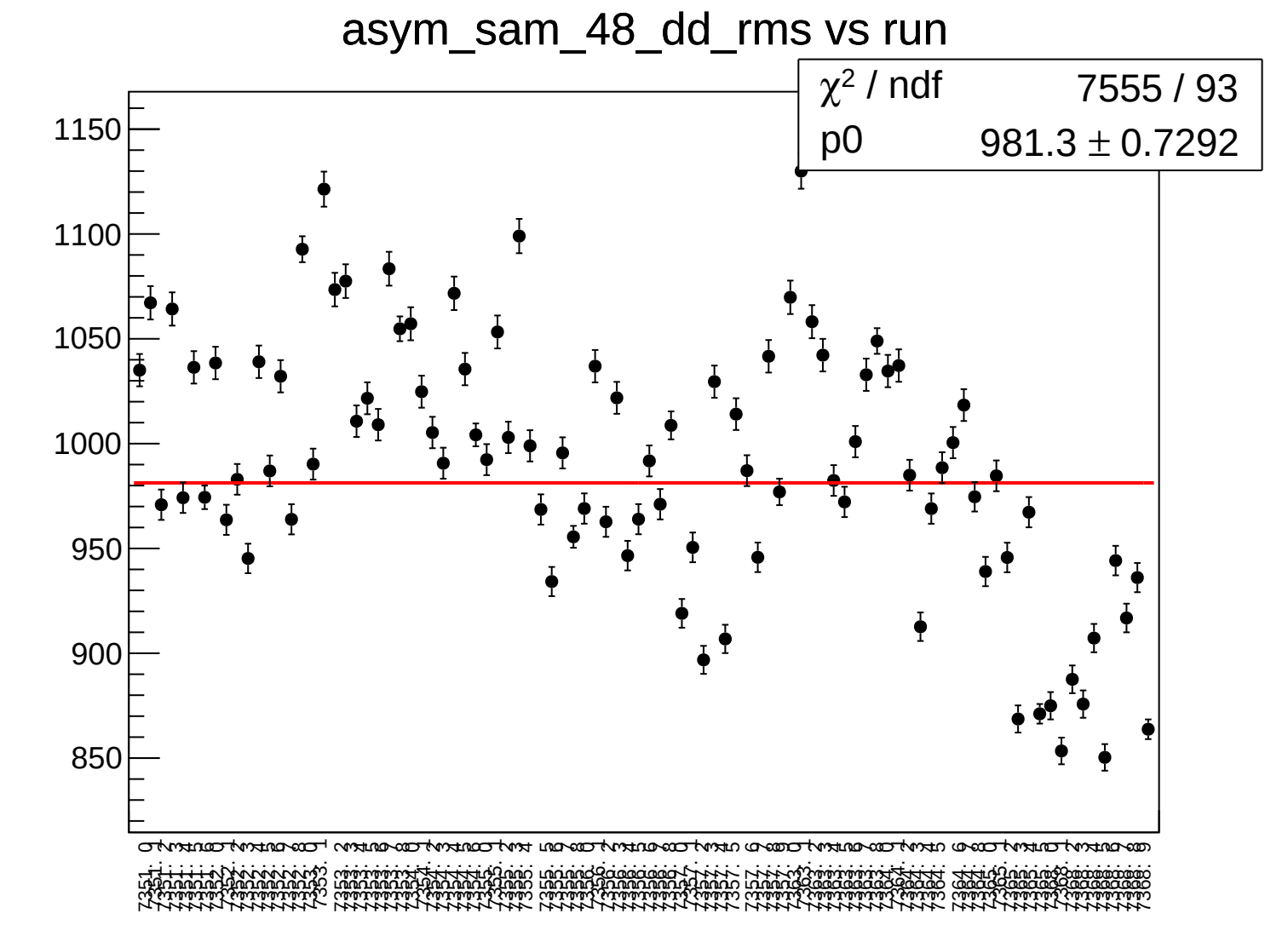

pull1D
Entries 94
Mean 0.02196
Std Dev 1.121
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

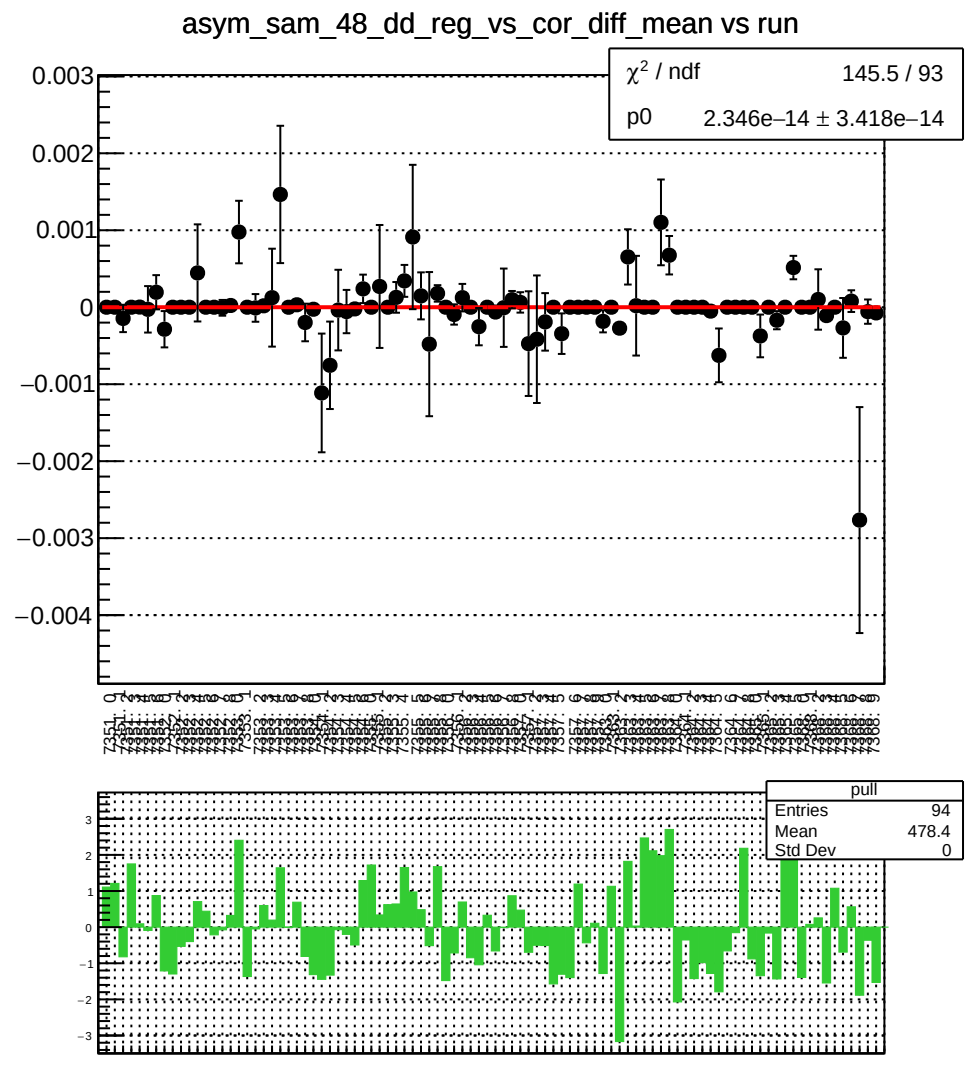

eigen_dit_asym_sam_48_dd_rms vs run
χ² / ndf 3.495e+04 / 93
p0 222.8 ± 0.1668
450
400
350
300
250
200
150

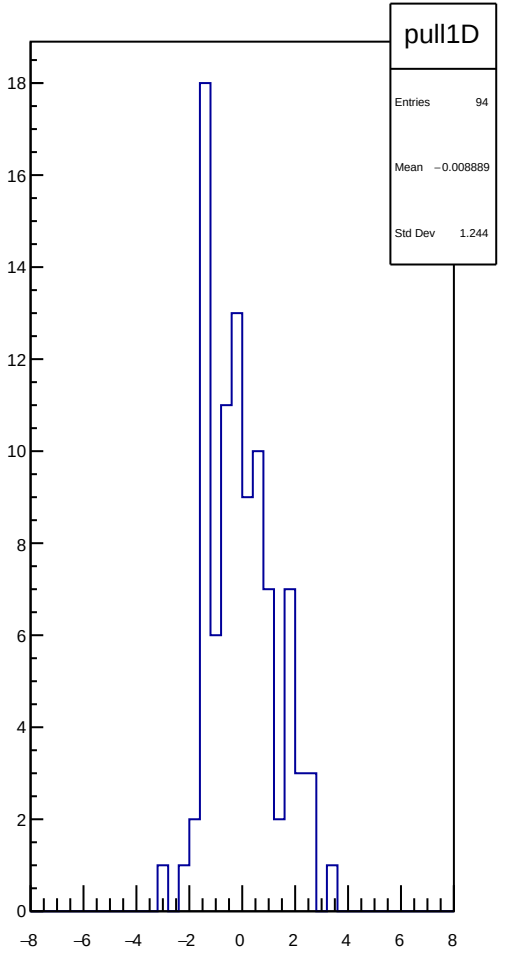

asym_sam_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 256 / 93
p0 895.9 ± 1121
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 1654
Std Dev 0
pull1D
Entries 94
Mean −0.003323
Std Dev 1.65
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

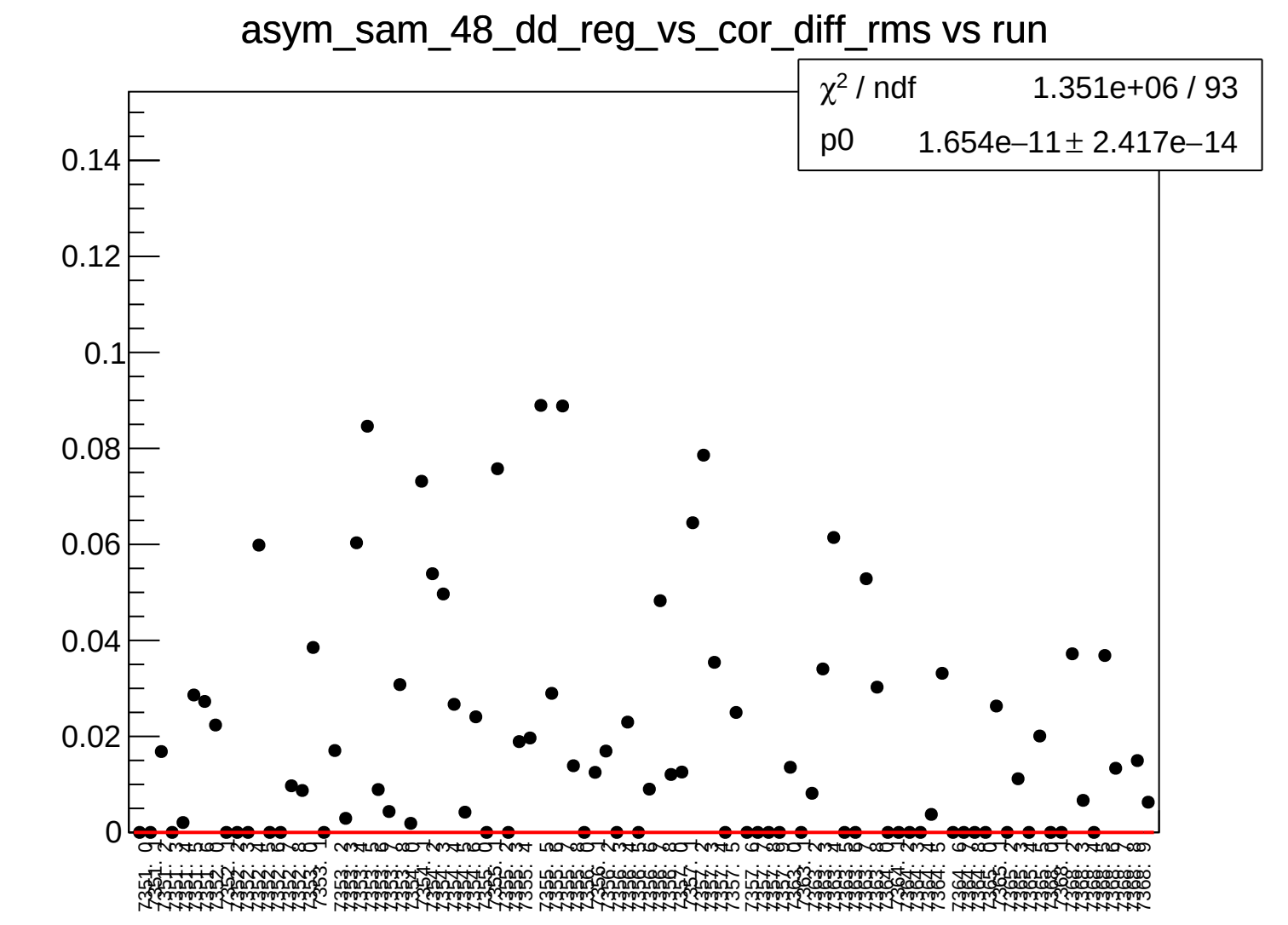

asym_sam_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 8133 / 93
p0 1066 ± 0.7924
1250
1200
1150
1100
1050
1000
950
900

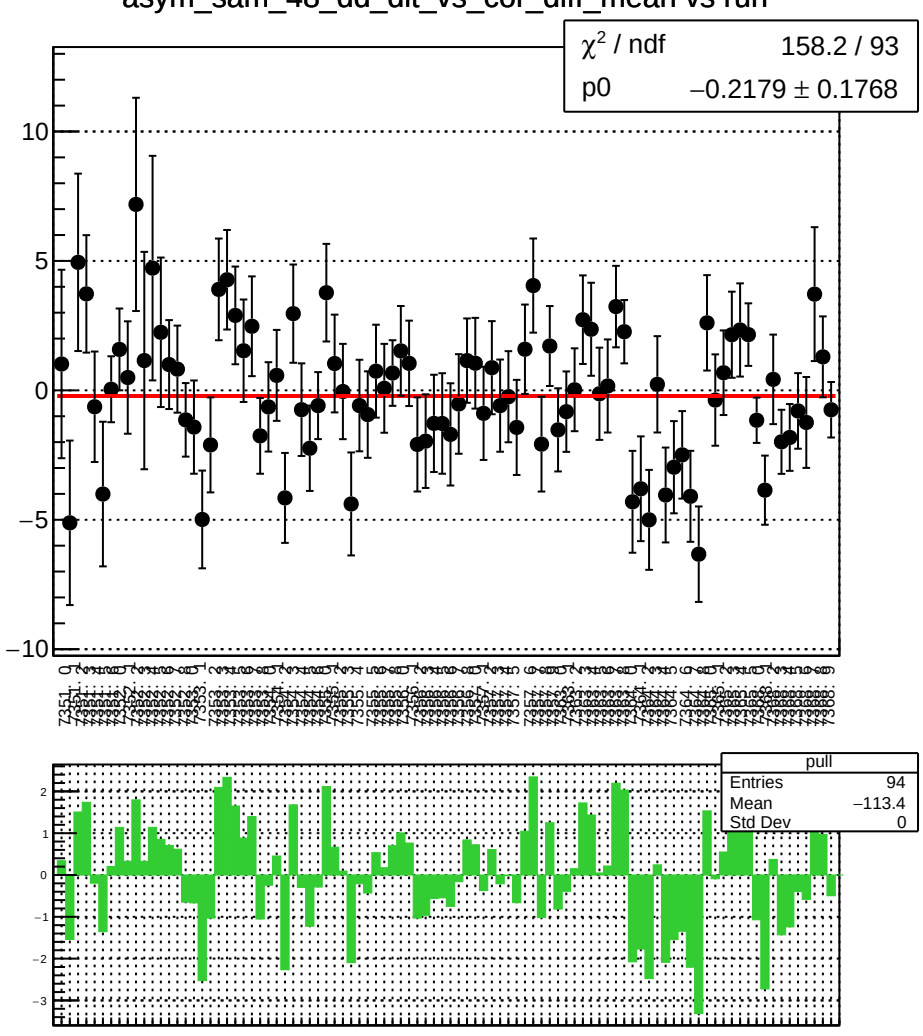

asym_sam_48_dd_mean vs run
χ² / ndf 256.3 / 93
p0 −1197 ± 1031
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −2868
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 94
Mean −0.001684
Std Dev 1.651
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

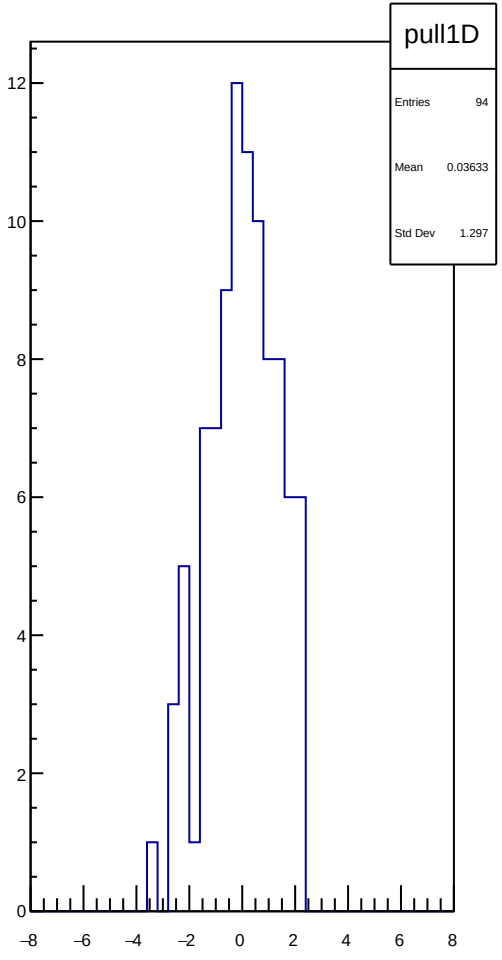

asym_sam_48_dd_rms vs run
χ² / ndf 7555 / 93
p0 981.3 ± 0.7292
1150
1100
1050
1000
950
900
850

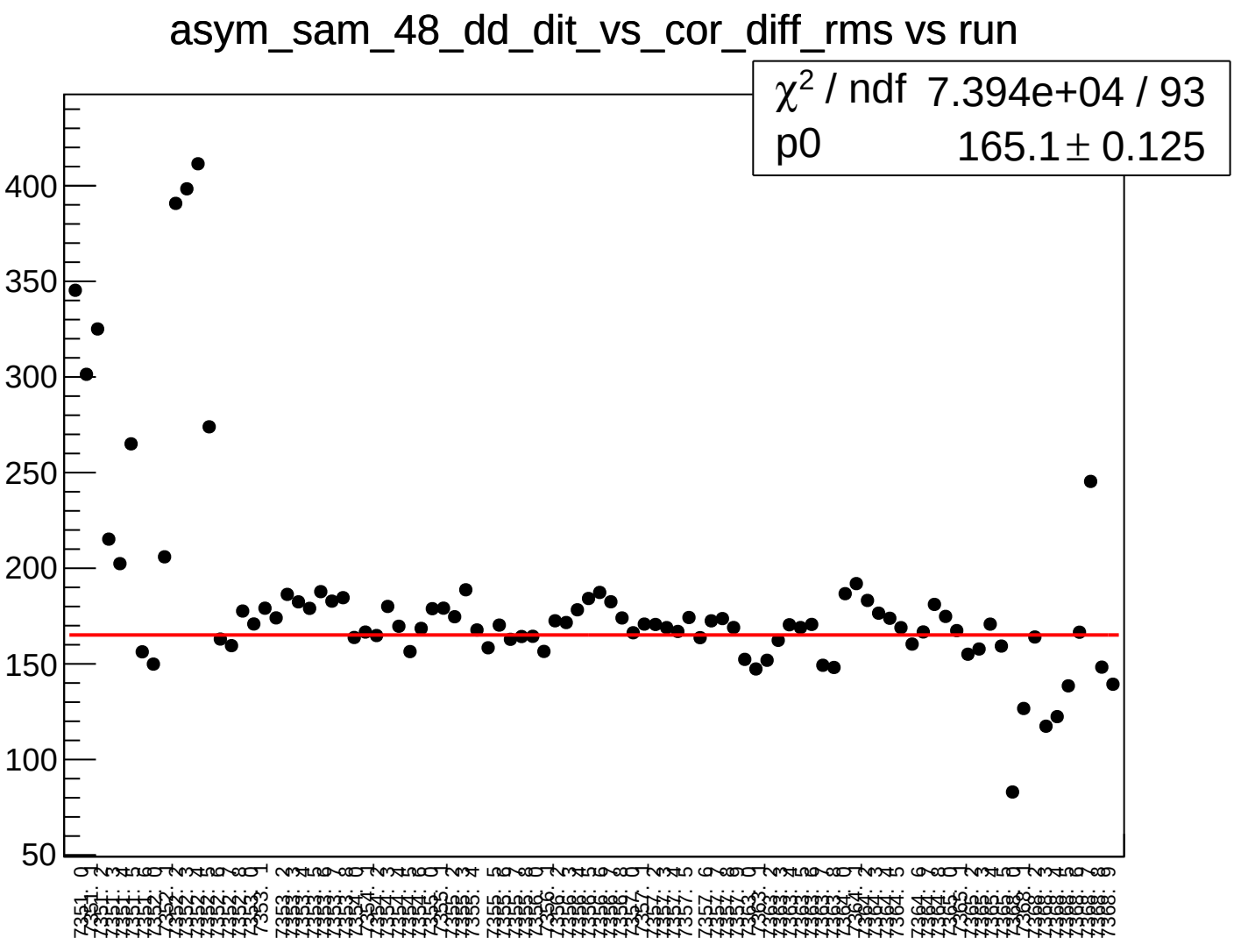

asym_sam_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 145.5 / 93
p0 2.346e−14 ± 3.418e−14
0.003
0.002
0.001
0
−0.001
−0.002
−0.003
−0.004
pull
Entries 94
Mean 478.4
Std Dev 0
3
2
1
0
−1
−2
−3

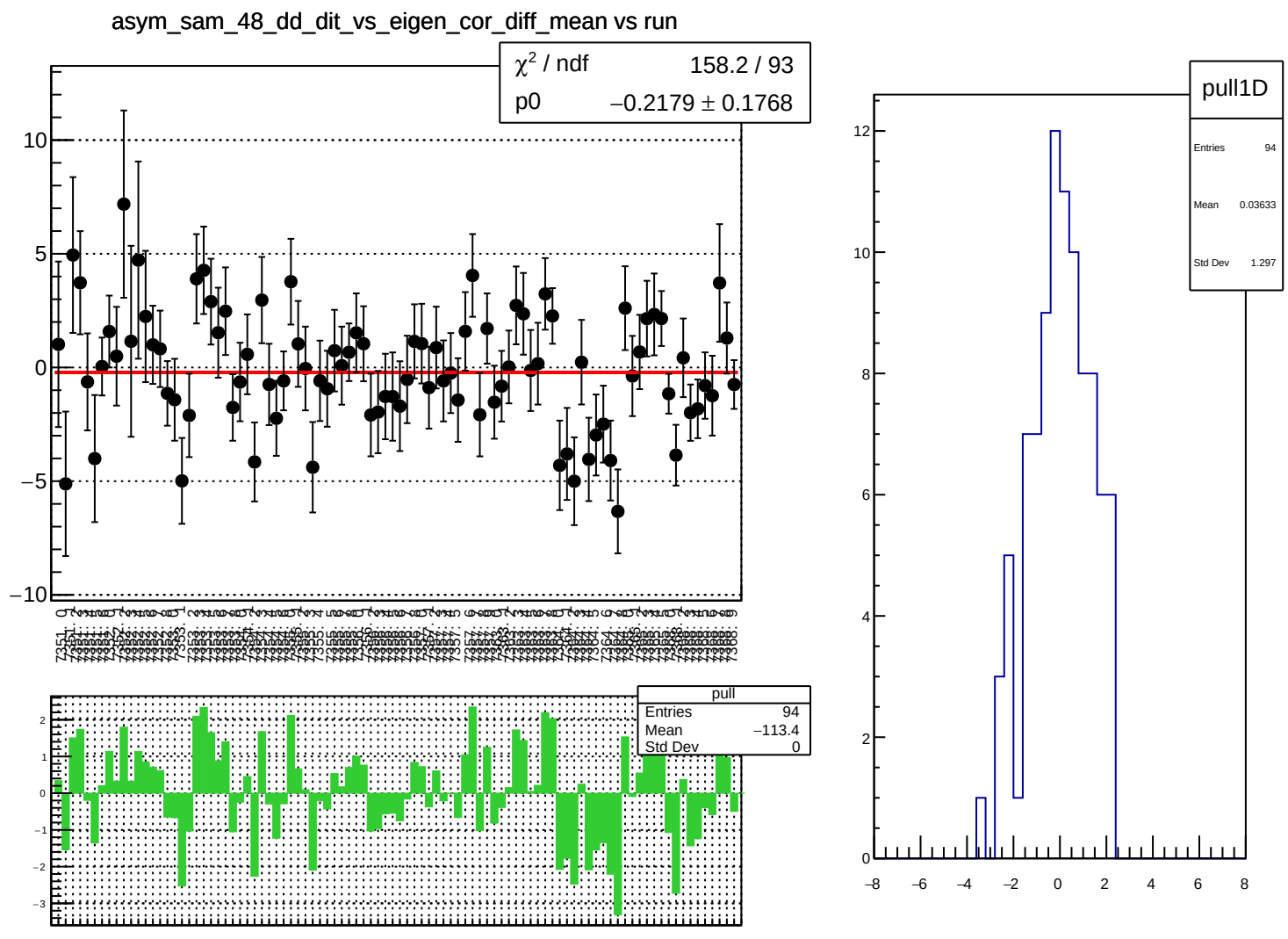

pull1D
Entries 94
Mean −0.008889
Std Dev 1.244
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

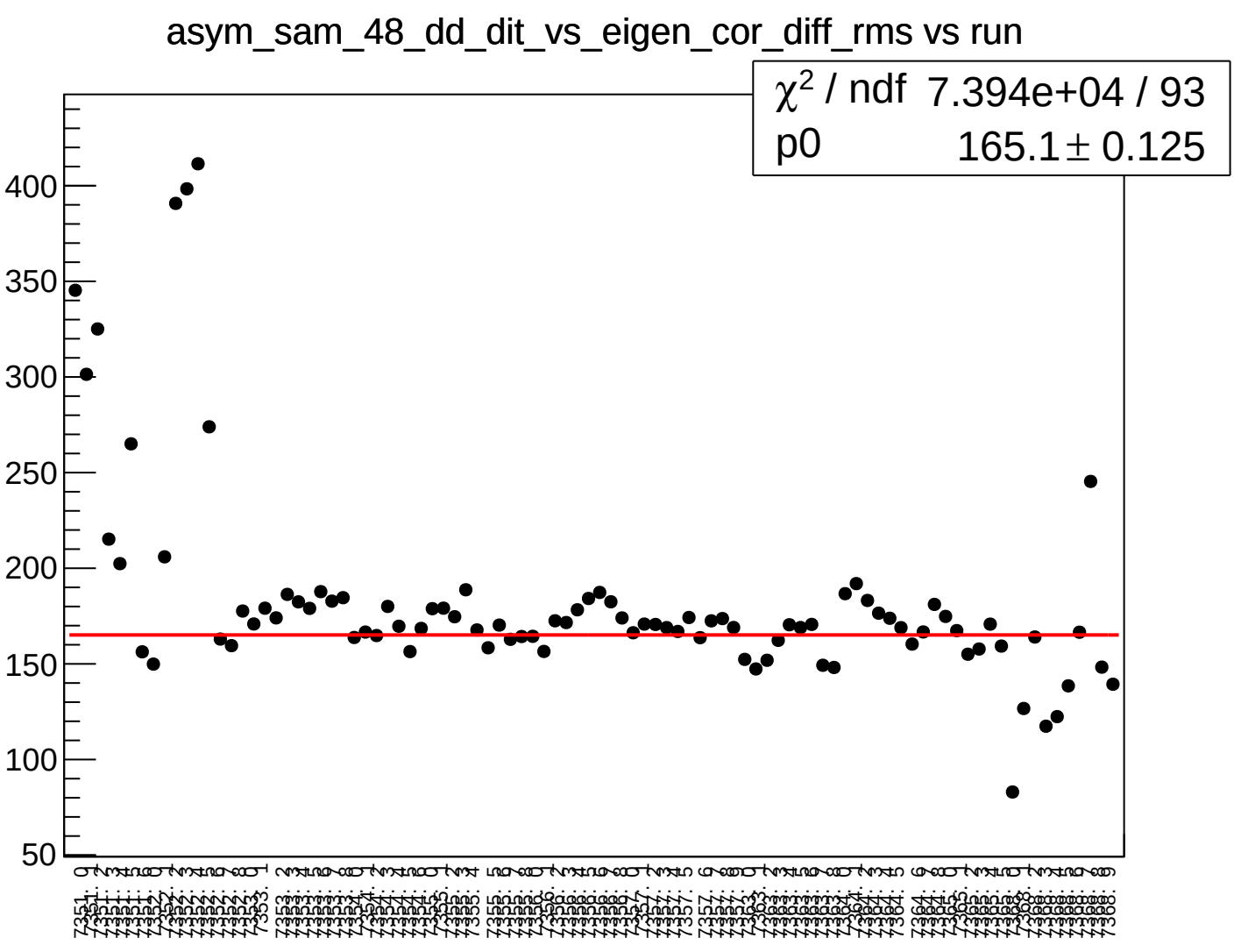

asym_sam_48_dd_reg_vs_cor_diff_rms vs run
χ^2 / ndf 1.351e+06 / 93
p0 1.654e−11 ± 2.417e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

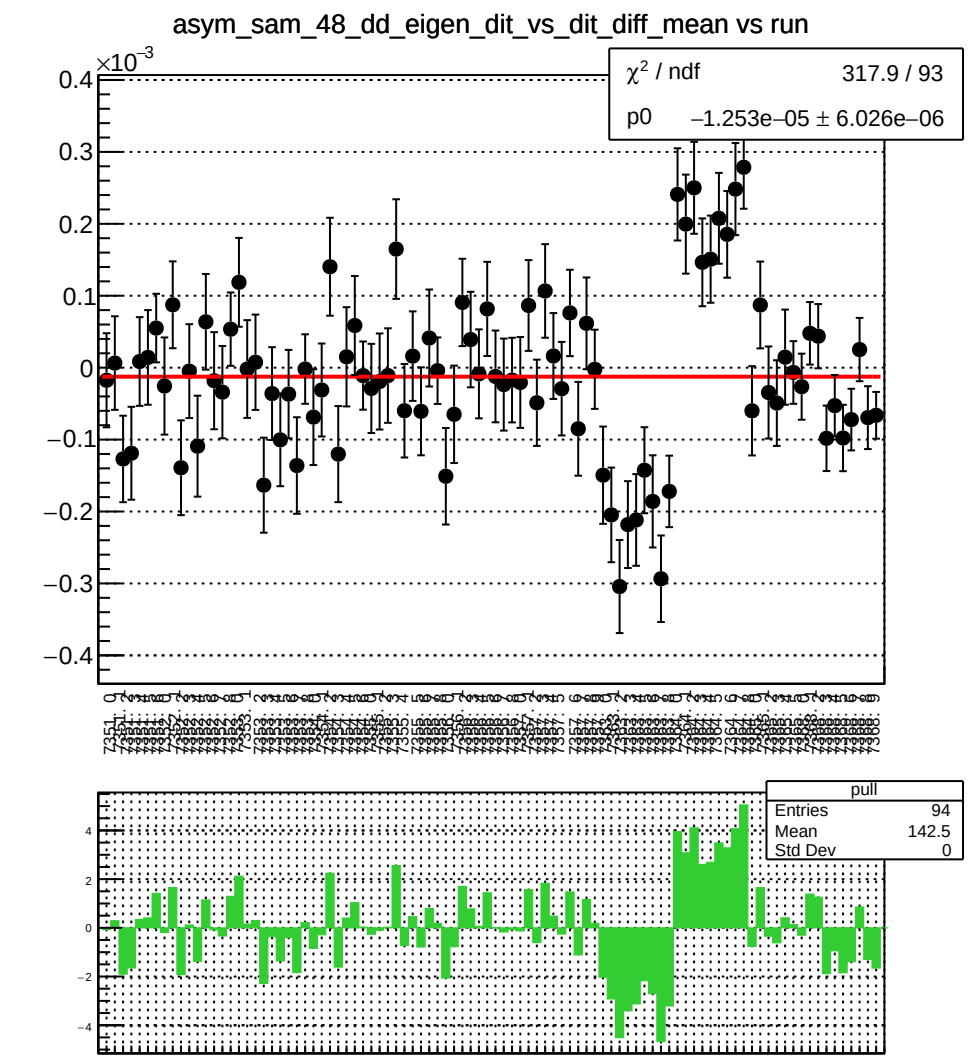

asym_sam_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 158.2 / 93
p0 −0.2179 ± 0.1768
pull
Entries 94
Mean −113.4
Std Dev 0

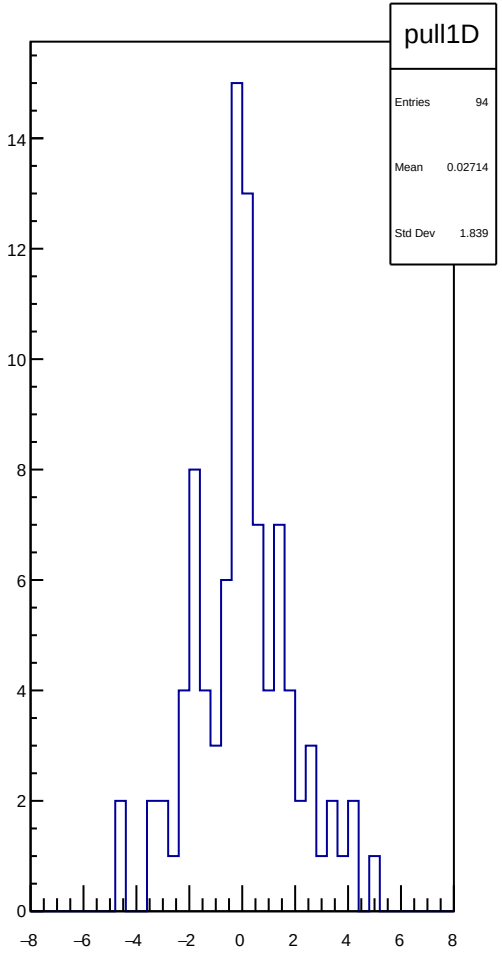

pull1D
Entries 94
Mean 0.03633
Std Dev 1.297

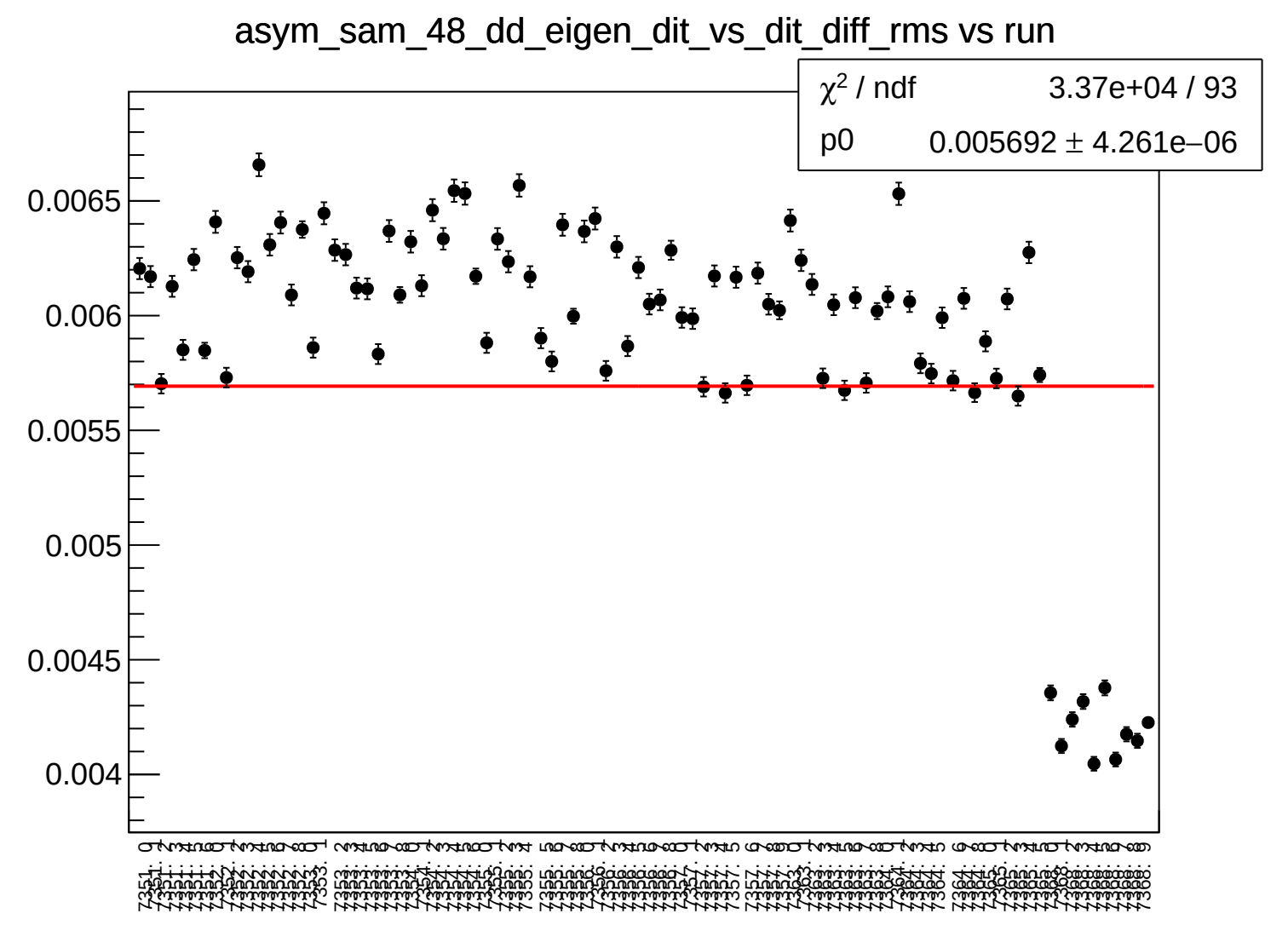

asym_sam_48_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 7.394e+04 / 93
p0 165.1 ± 0.125
400
350
300
250
200
150
100
50

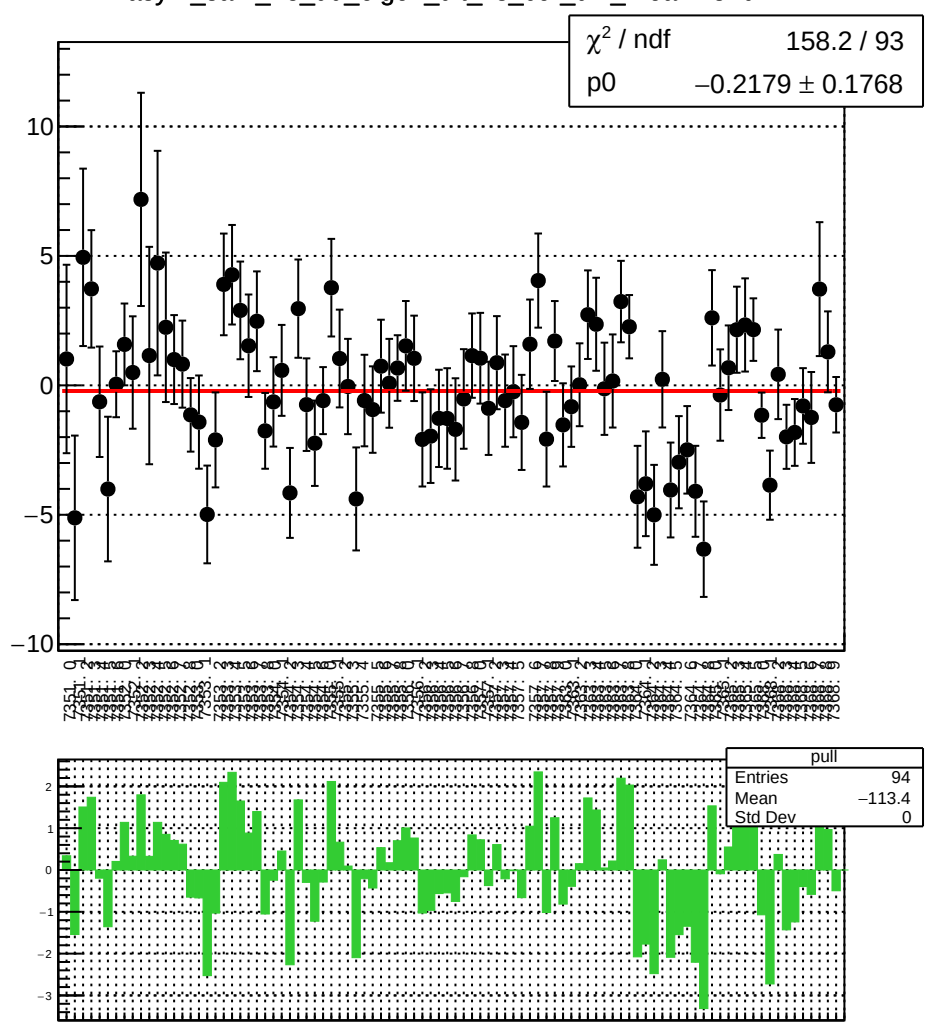

asym_sam_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 158.2 / 93
p0 −0.2179 ± 0.1768
pull
Entries 94
Mean −113.4
Std Dev 0
pull1D
Entries 94
Mean 0.03633
Std Dev 1.297

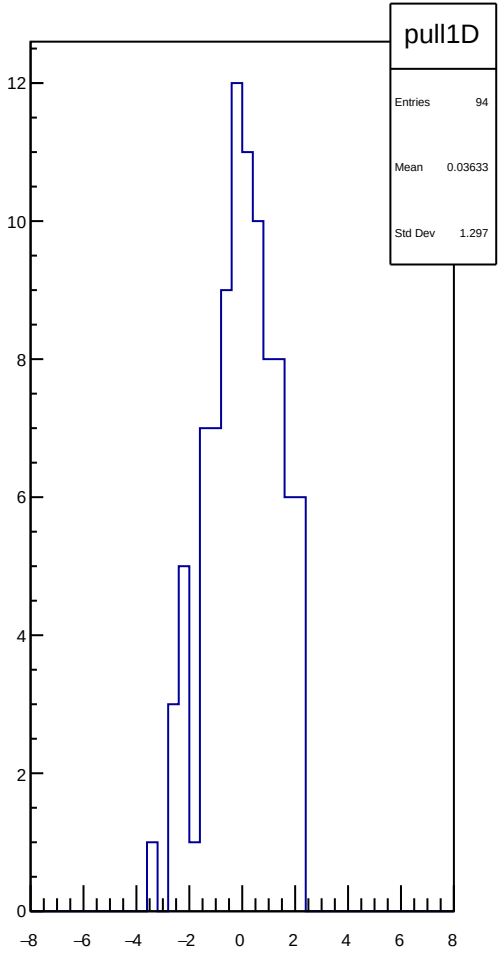

asym_sam_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.394e+04 / 93
p0 165.1 ± 0.125
400
350
300
250
200
150
100
50

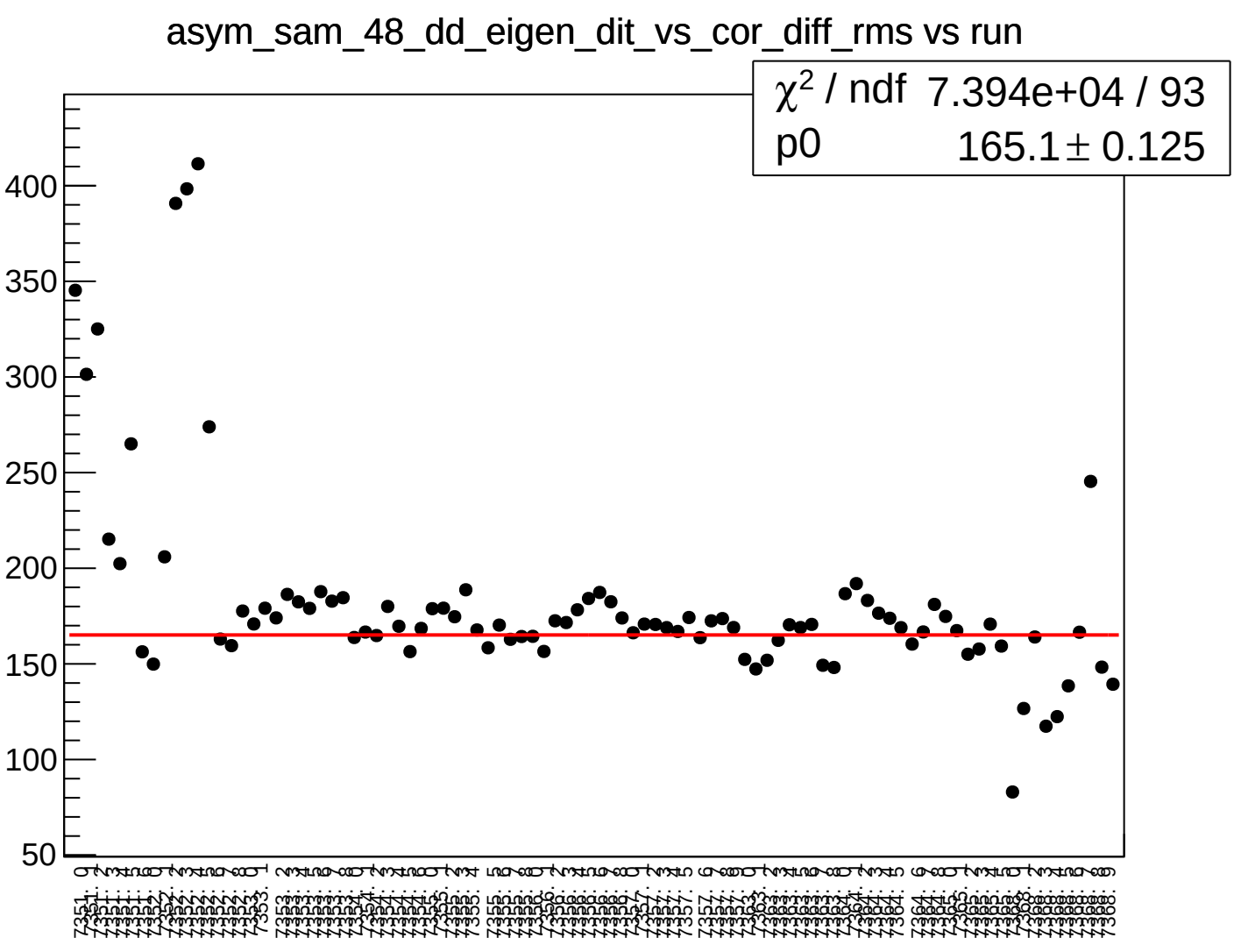

asym_sam_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 317.9 / 93
p0 −1.253e−05 ± 6.026e−06
pull
Entries 94
Mean 142.5
Std Dev 0

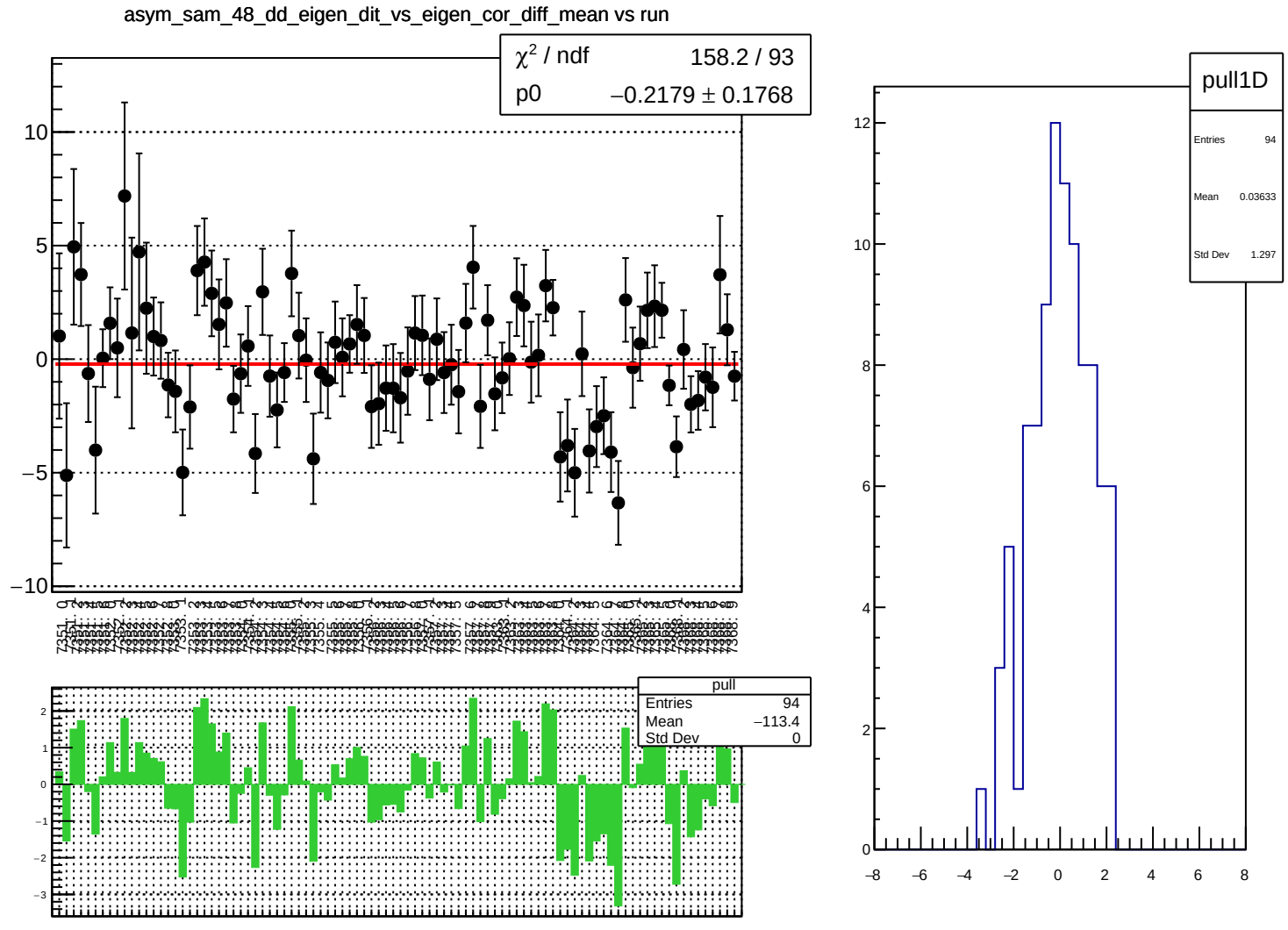

pull1D
Entries 94
Mean 0.02714
Std Dev 1.839

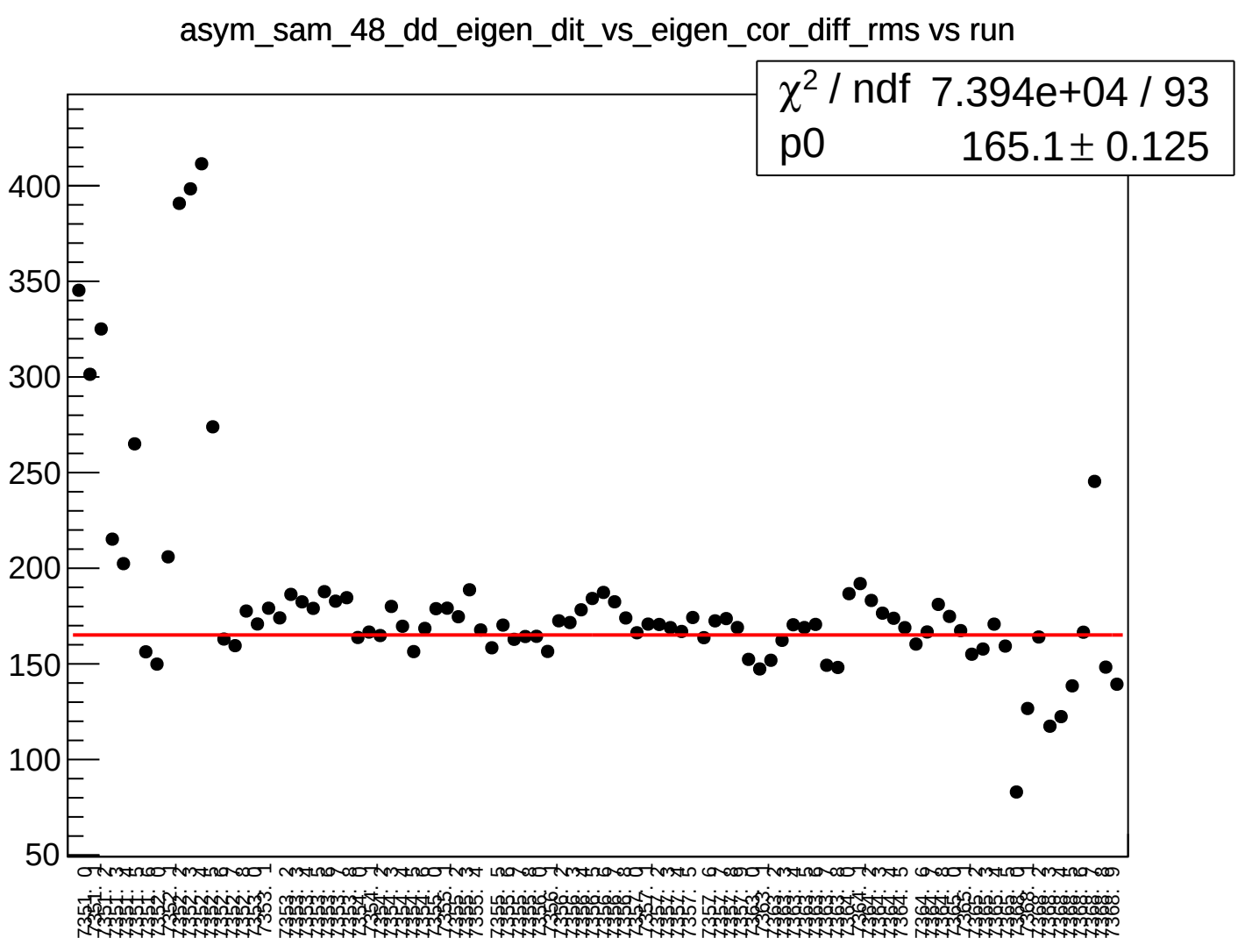

asym_sam_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.37e+04 / 93
p0 0.005692 ± 4.261e−06
0.0065
0.006
0.0055
0.005
0.0045
0.004

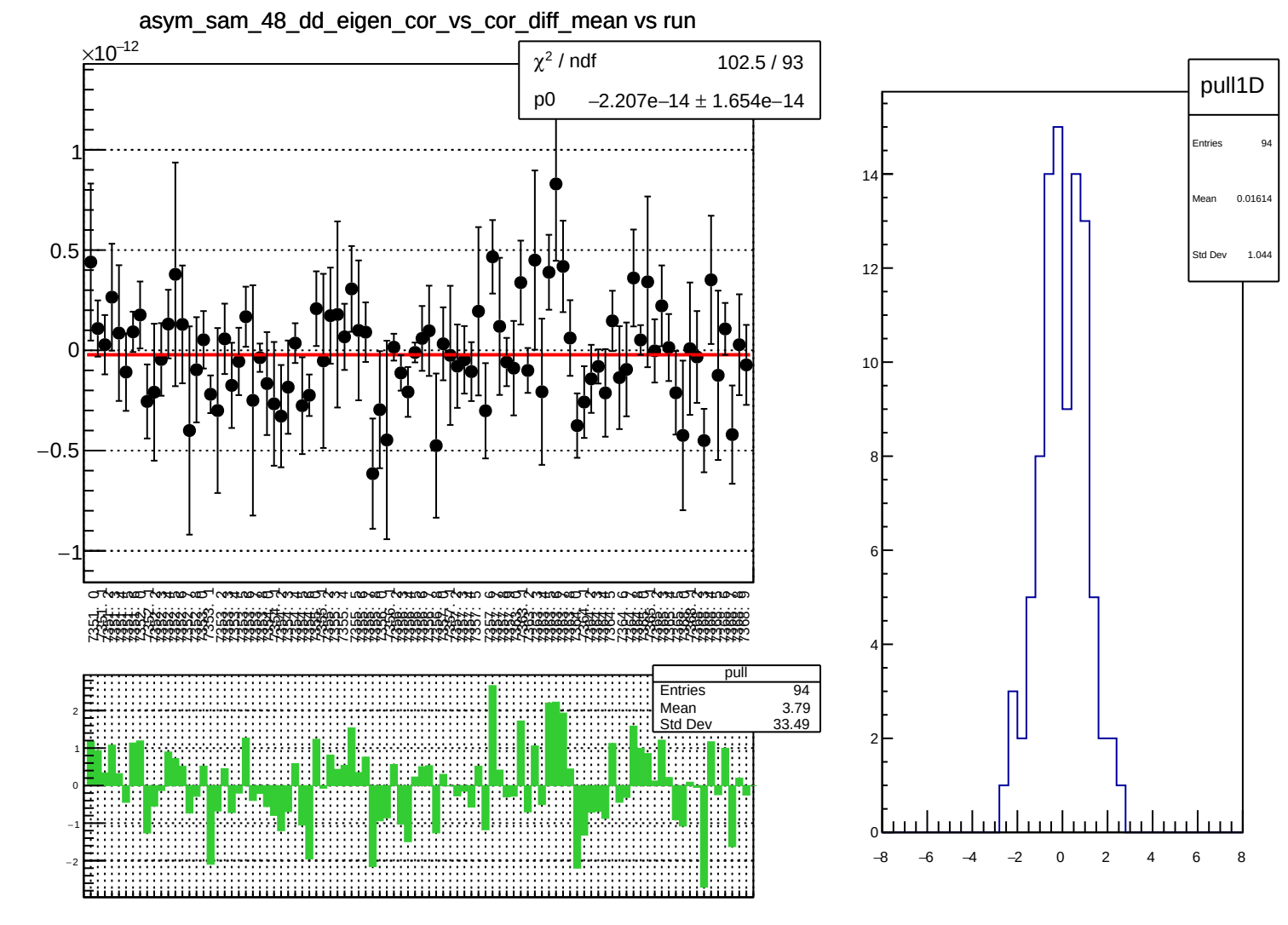

asym_sam_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 158.2 / 93
p0 −0.2179 ± 0.1768
pull
Entries 94
Mean −113.4
Std Dev 0

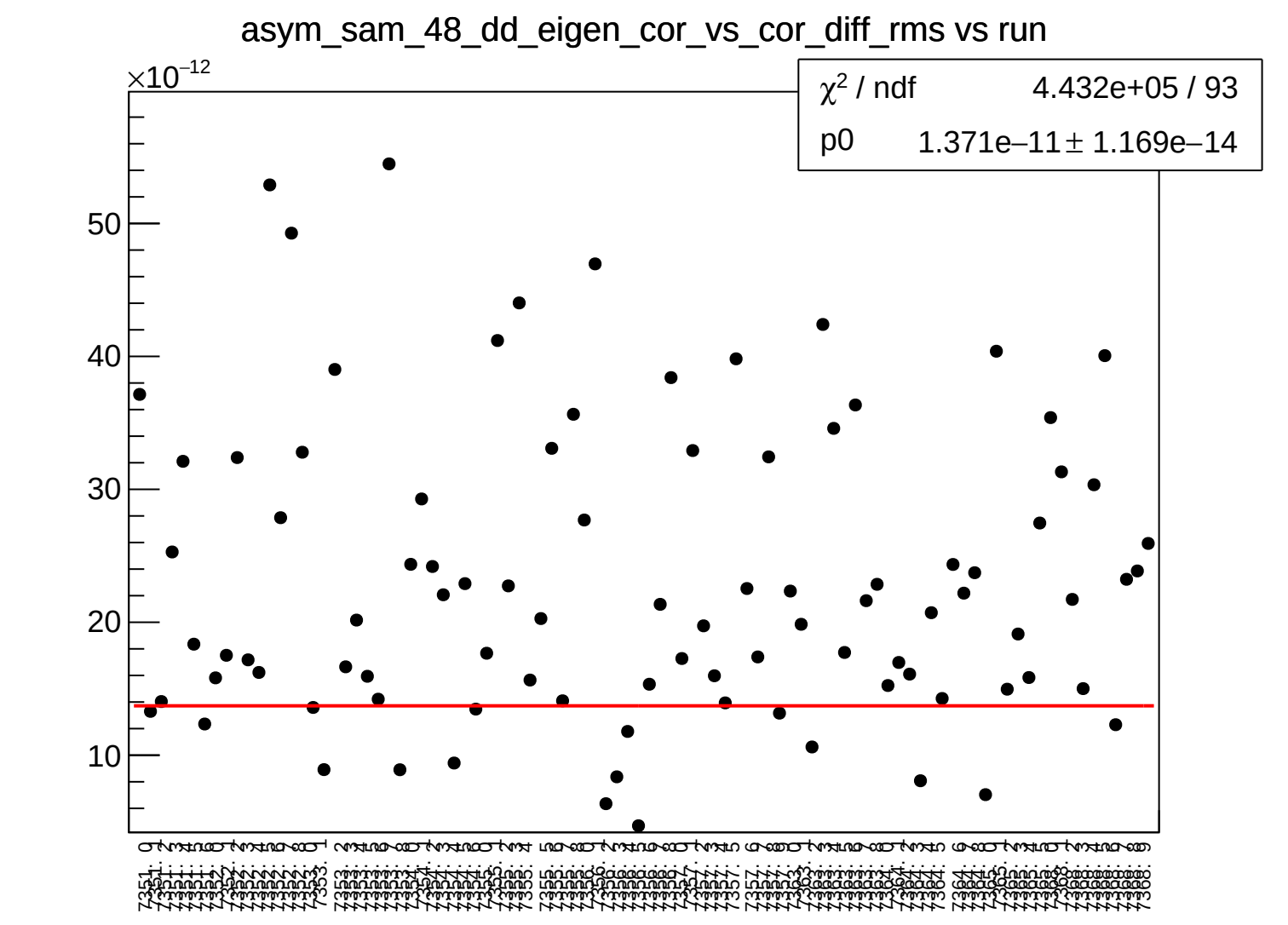

pull1D
Entries 94
Mean 0.03633
Std Dev 1.297

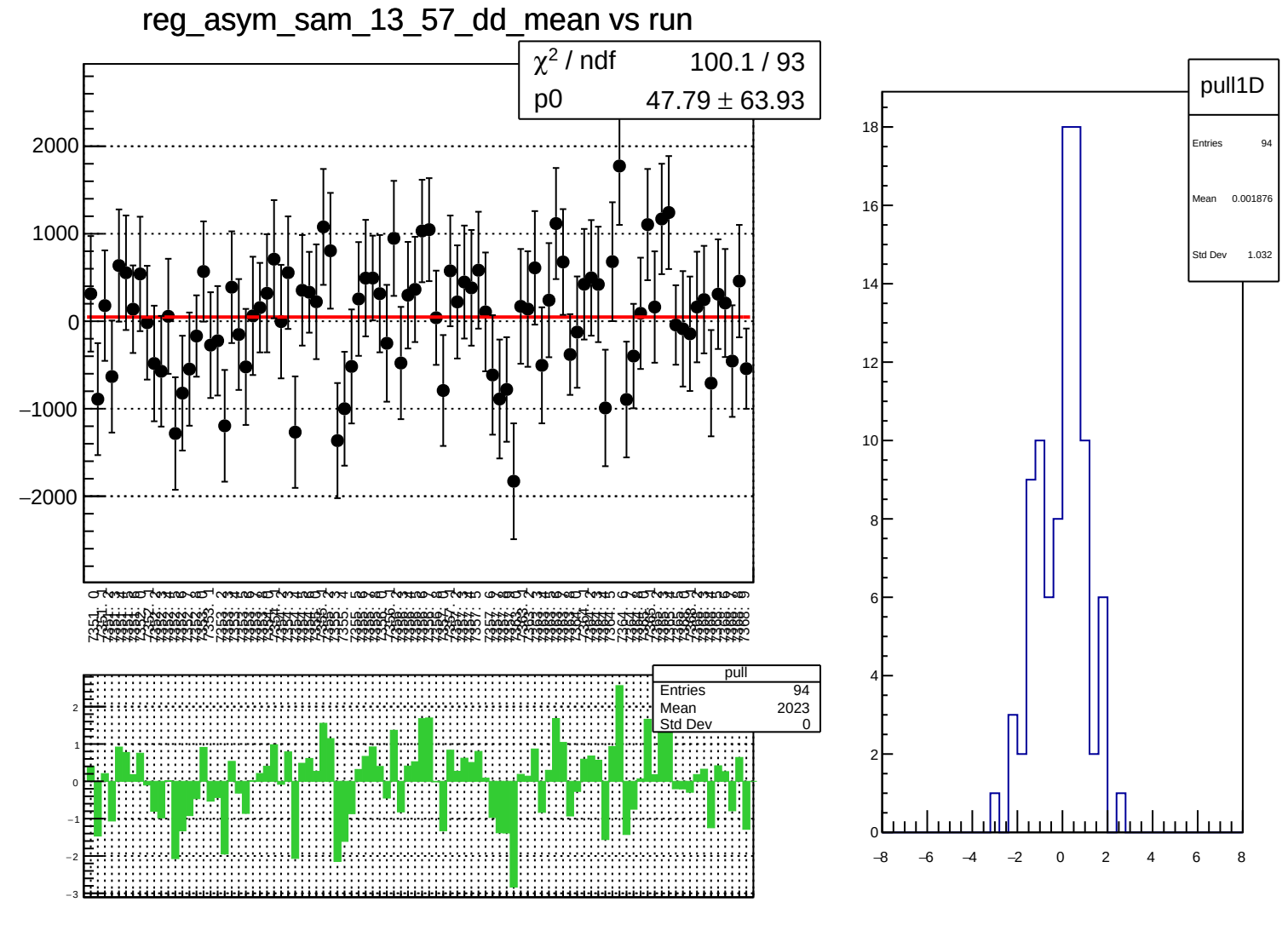

asym_sam_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.394e+04 / 93
p0 165.1 ± 0.125
400
350
300
250
200
150
100
50

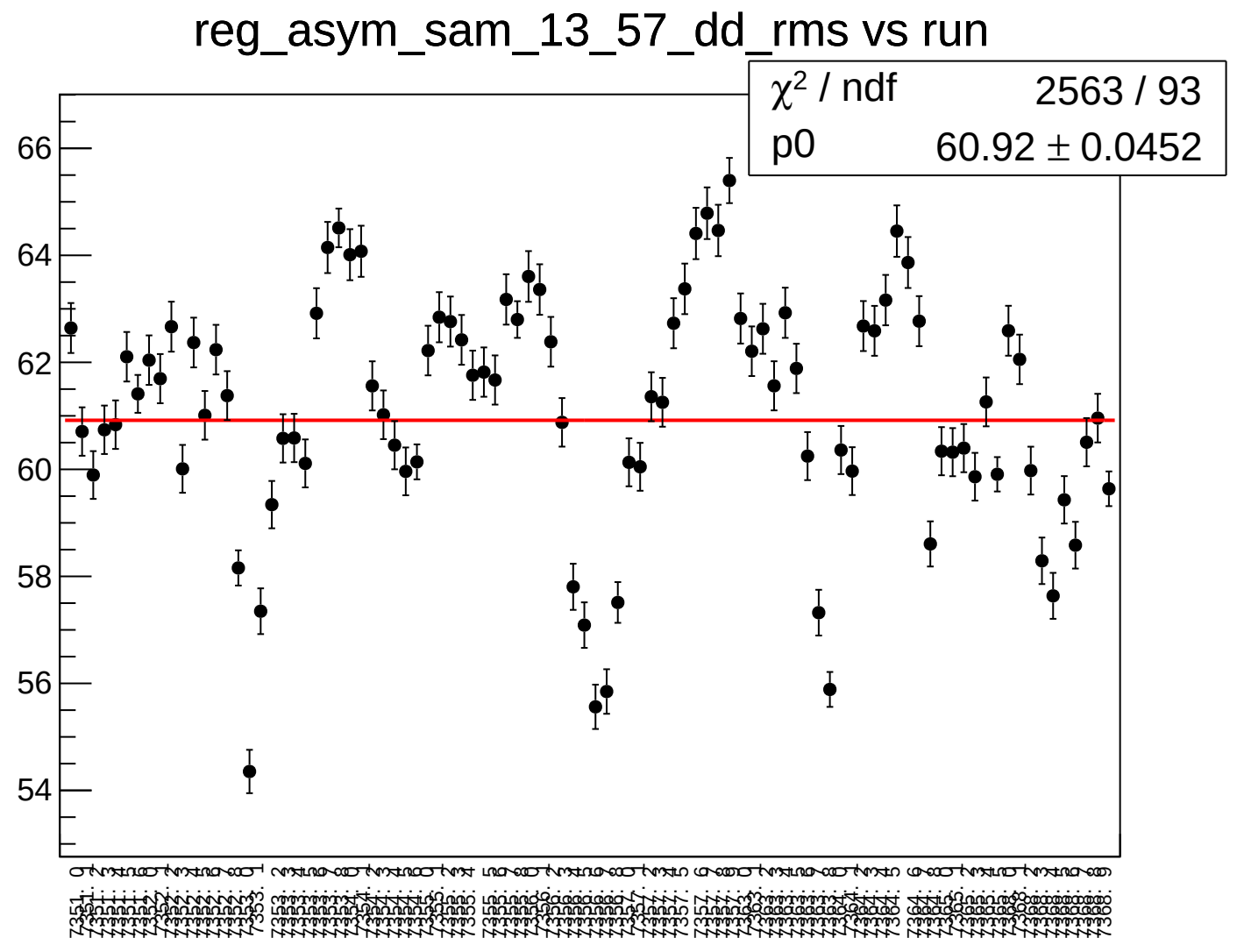

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 158.2 / 93
p0 −0.2179 ± 0.1768
pull
Entries 94
Mean −113.4
Std Dev 0
pull1D
Entries 94
Mean 0.03633
Std Dev 1.297

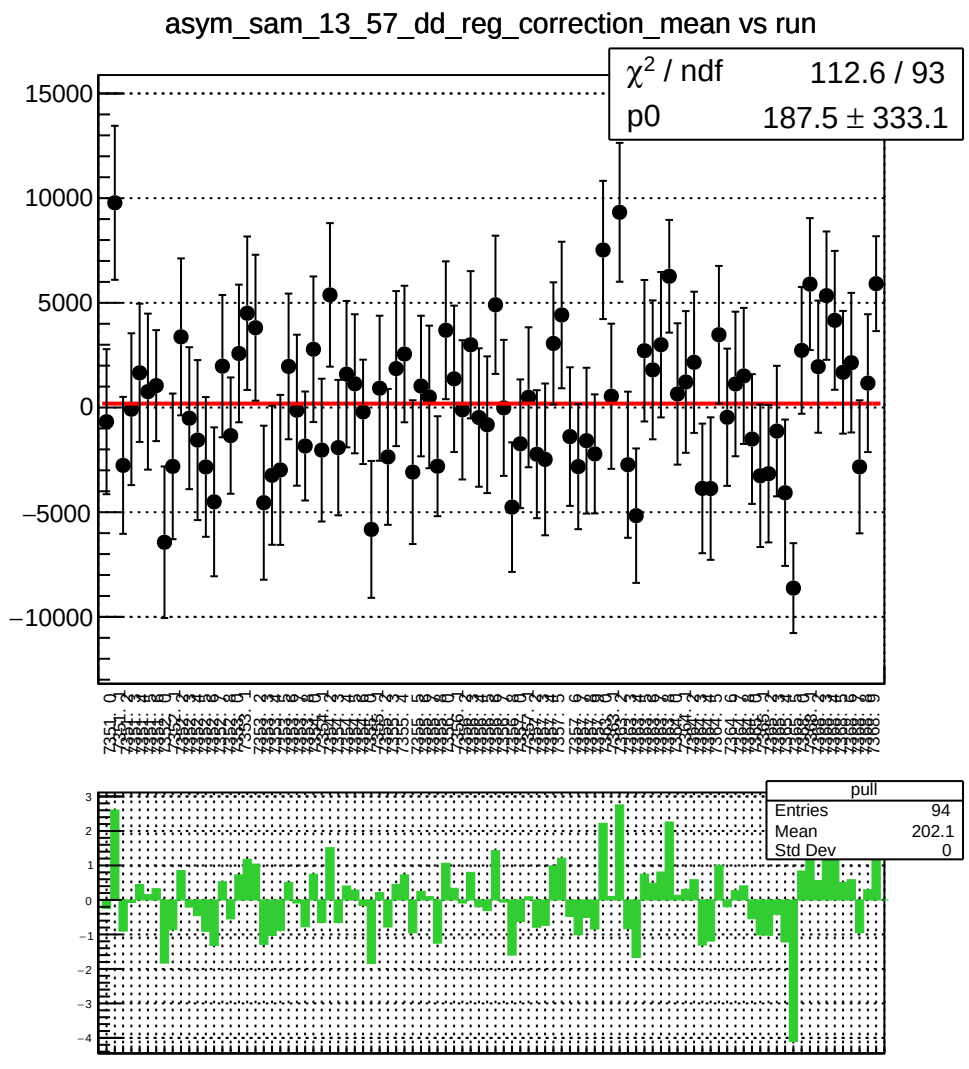

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.394e+04 / 93
p0 165.1 ± 0.125
400
350
300
250
200
150
100
50

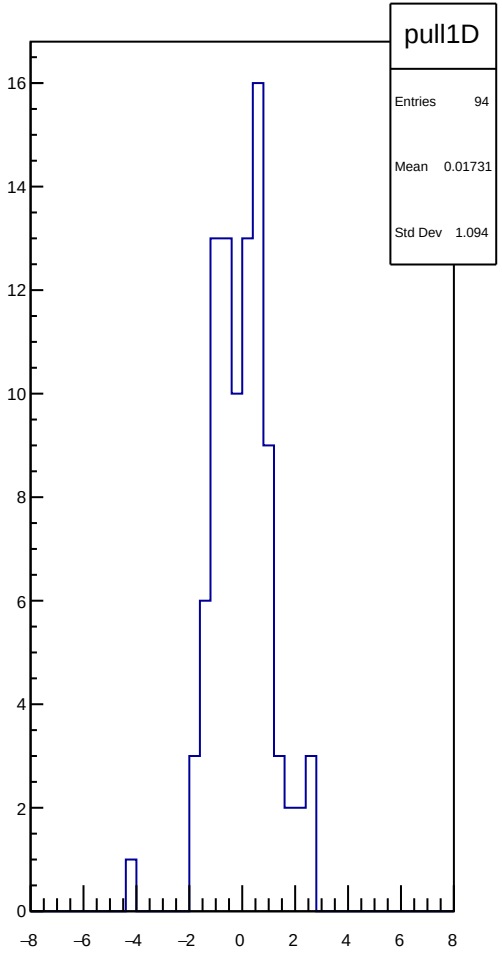

asym_sam_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 102.5 / 93
p0 −2.207e−14 ± 1.654e−14
pull
Entries 94
Mean 3.79
Std Dev 33.49
pull1D
Entries 94
Mean 0.01614
Std Dev 1.044

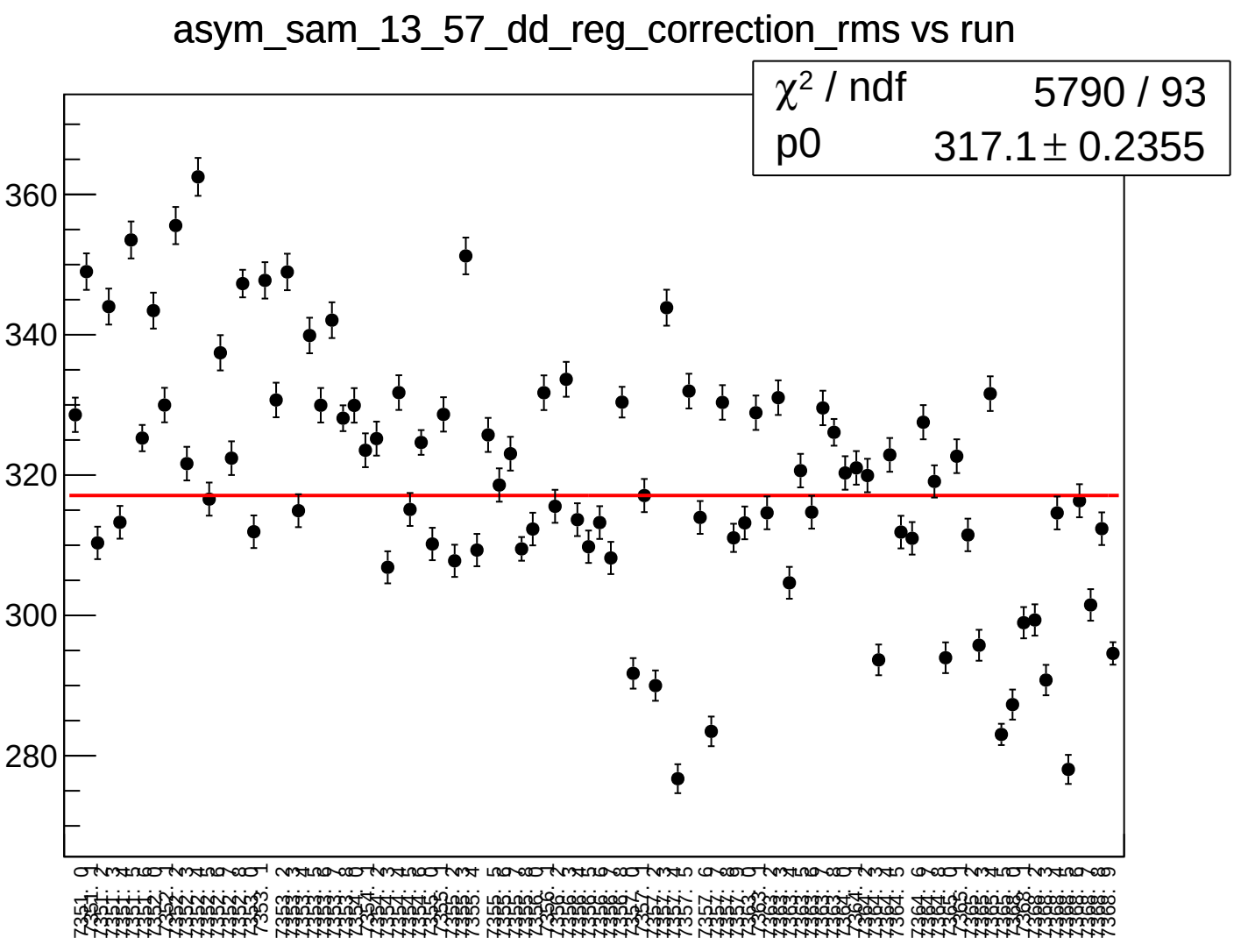

asym_sam_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.432e+05 / 93
p0 1.371e−11 ± 1.169e−14
50
40
30
20
10

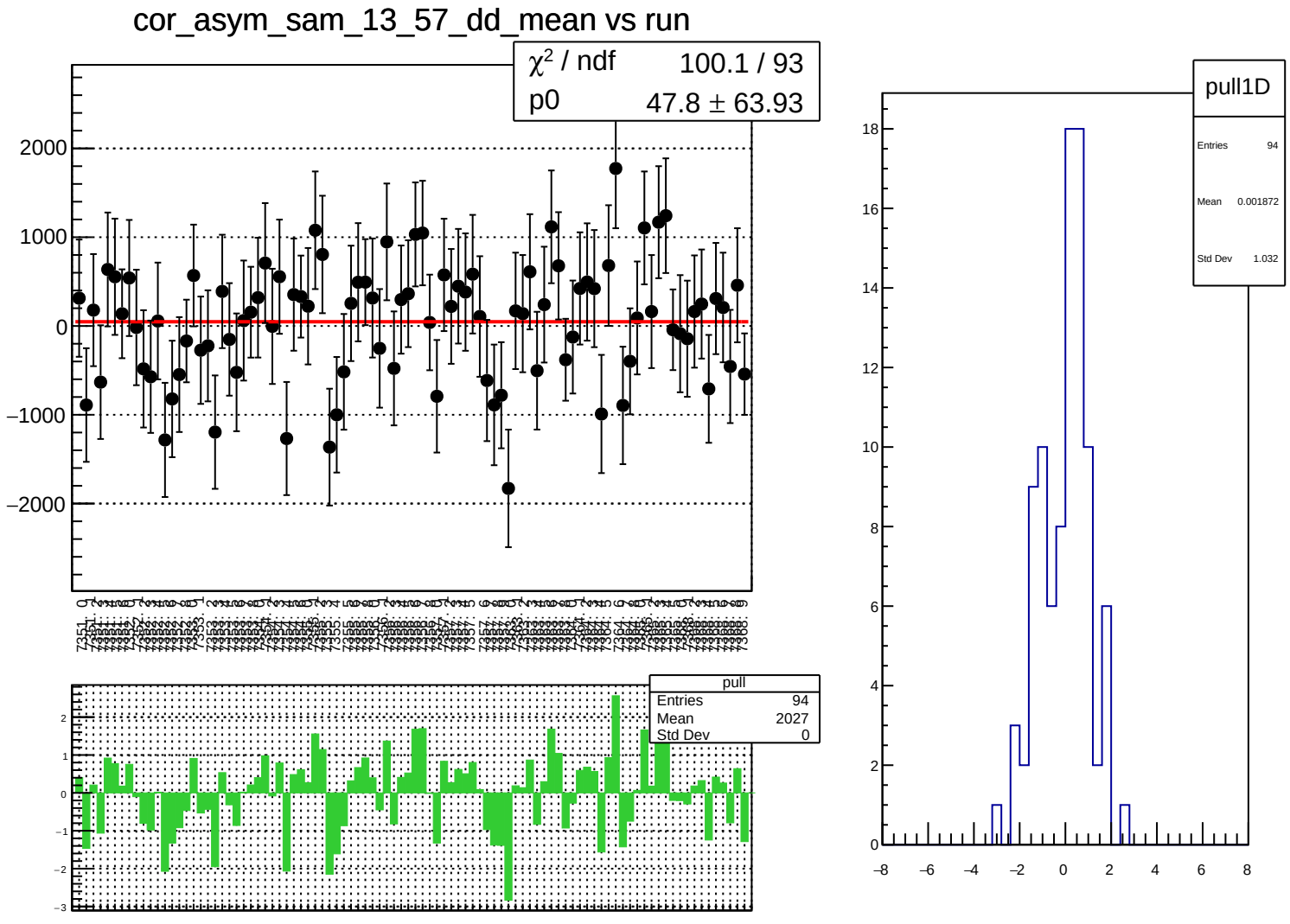

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 100.1 / 93
p0 47.79 ± 63.93
2000
1000
0
−1000
−2000
pull
Entries 94
Mean 2023
Std Dev 0
pull1D
Entries 94
Mean 0.001876
Std Dev 1.032

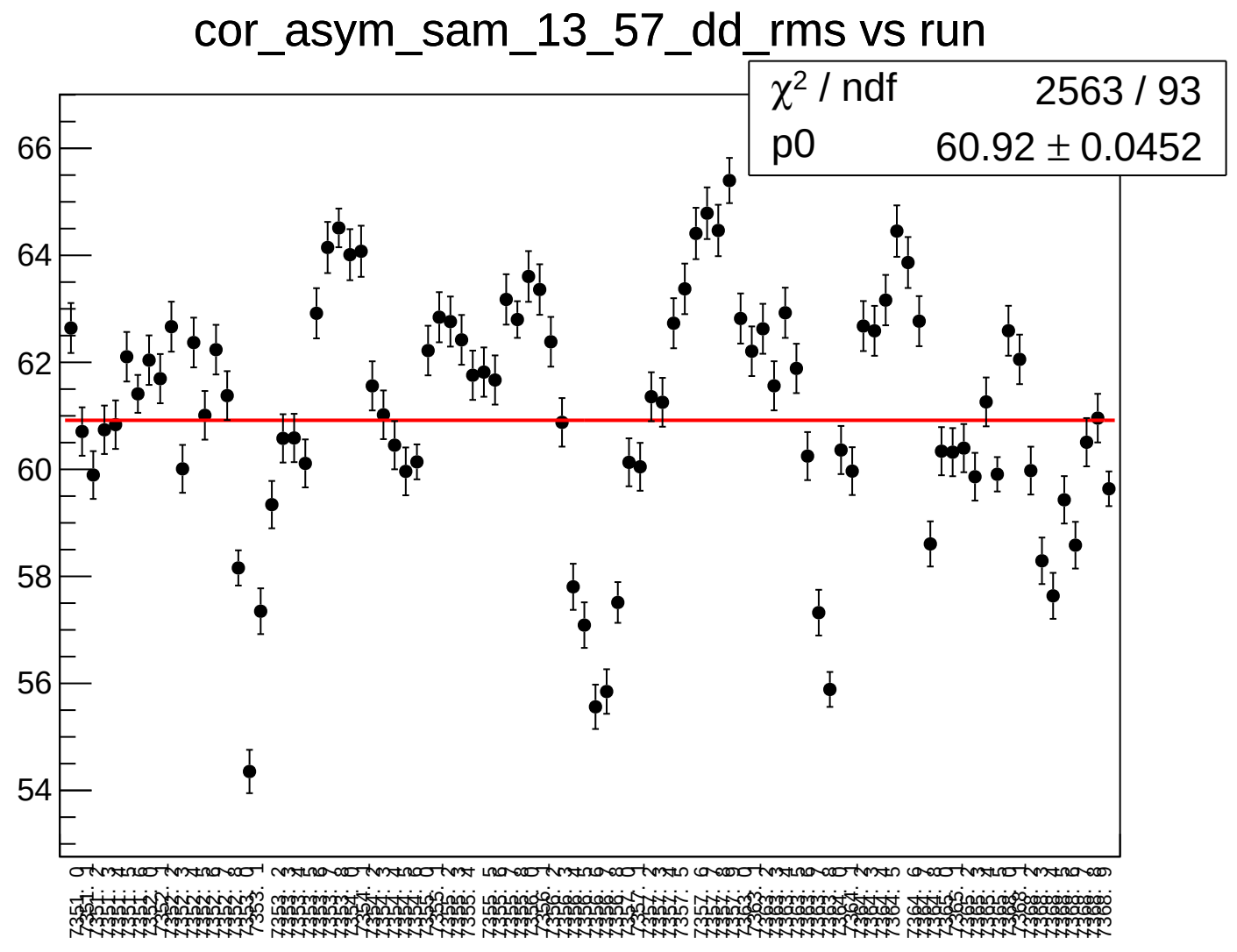

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 2563 / 93
p0 60.92 ± 0.0452
66
64
62
60
58
56
54

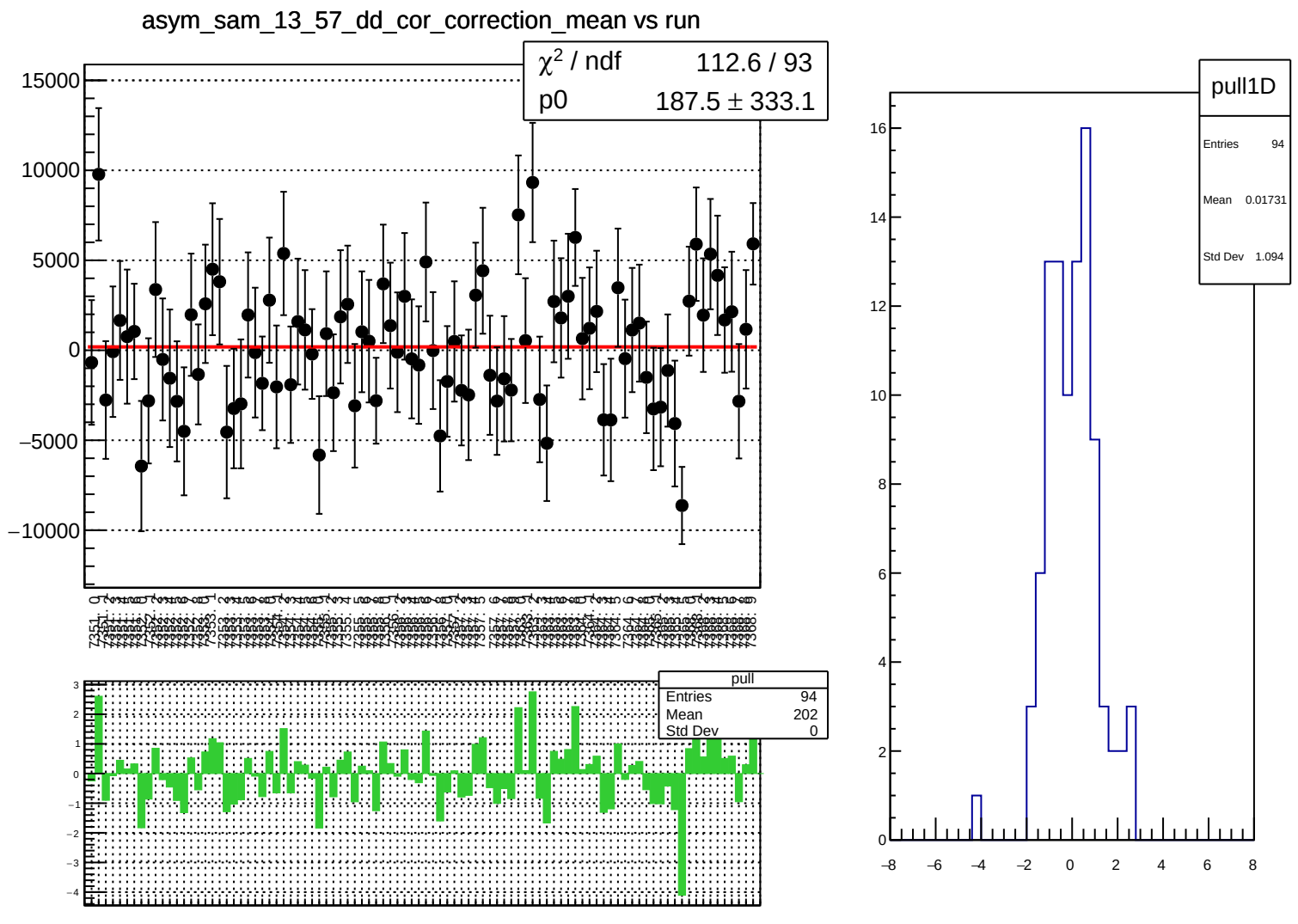

asym_sam_13_57_dd_reg_correction_mean vs run
χ² / ndf 112.6 / 93
p0 187.5 ± 333.1
15000
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 202.1
Std Dev 0
3
2
1
0
−1
−2
−3
−4

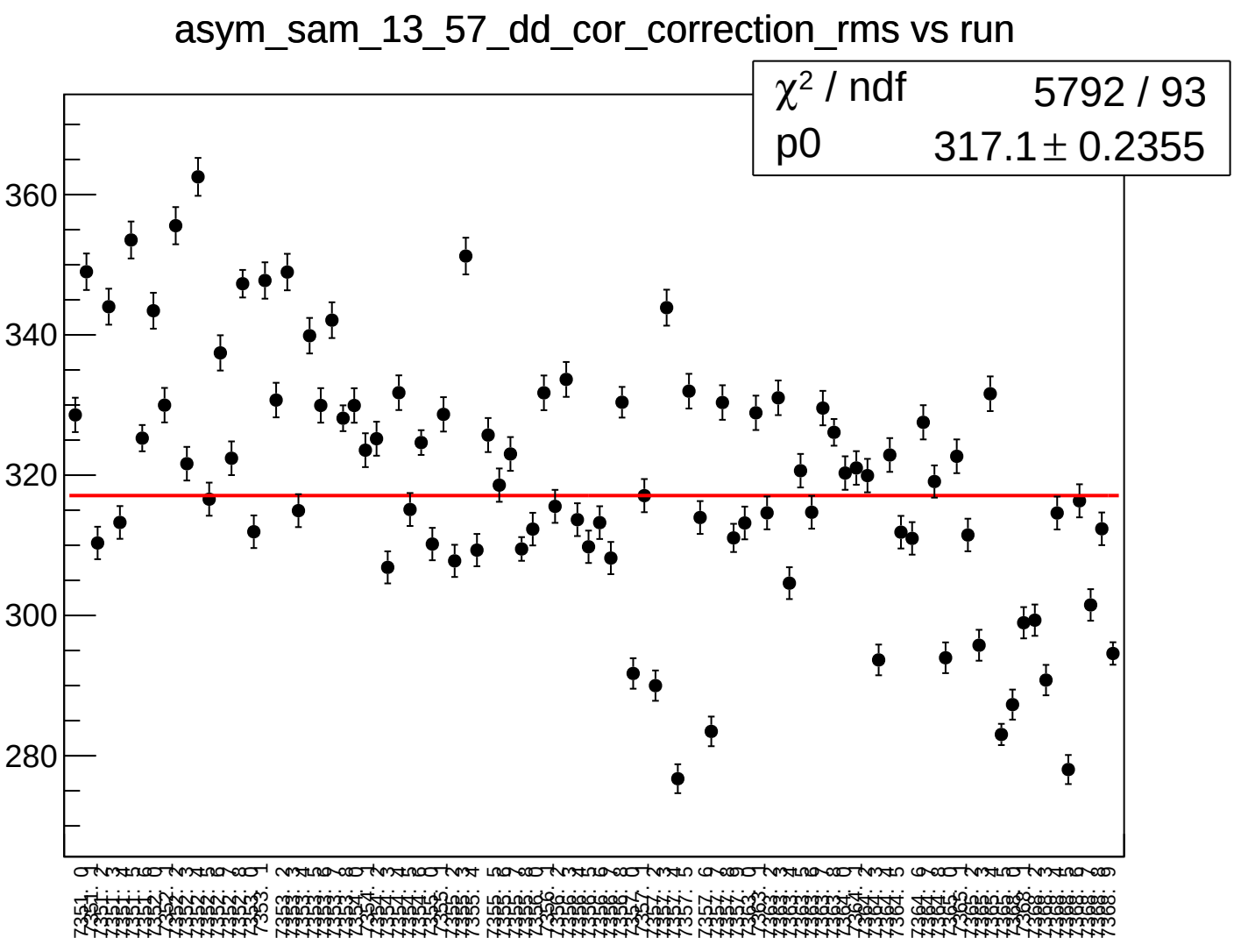

pull1D
Entries 94
Mean 0.01731
Std Dev 1.094
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

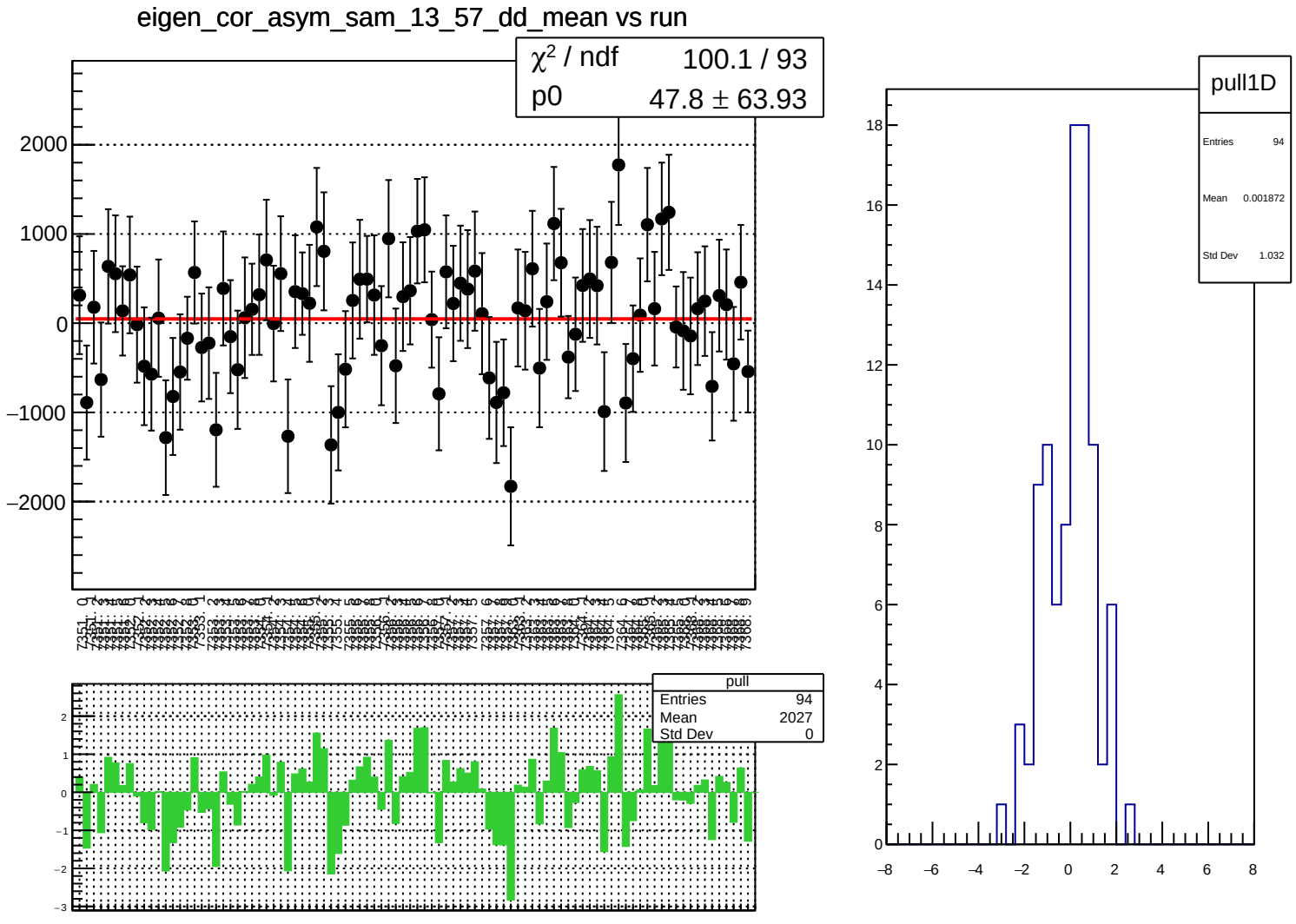

asym_sam_13_57_dd_reg_correction_rms vs run
χ² / ndf 5790 / 93
p0 317.1 ± 0.2355
360
340
320
300
280

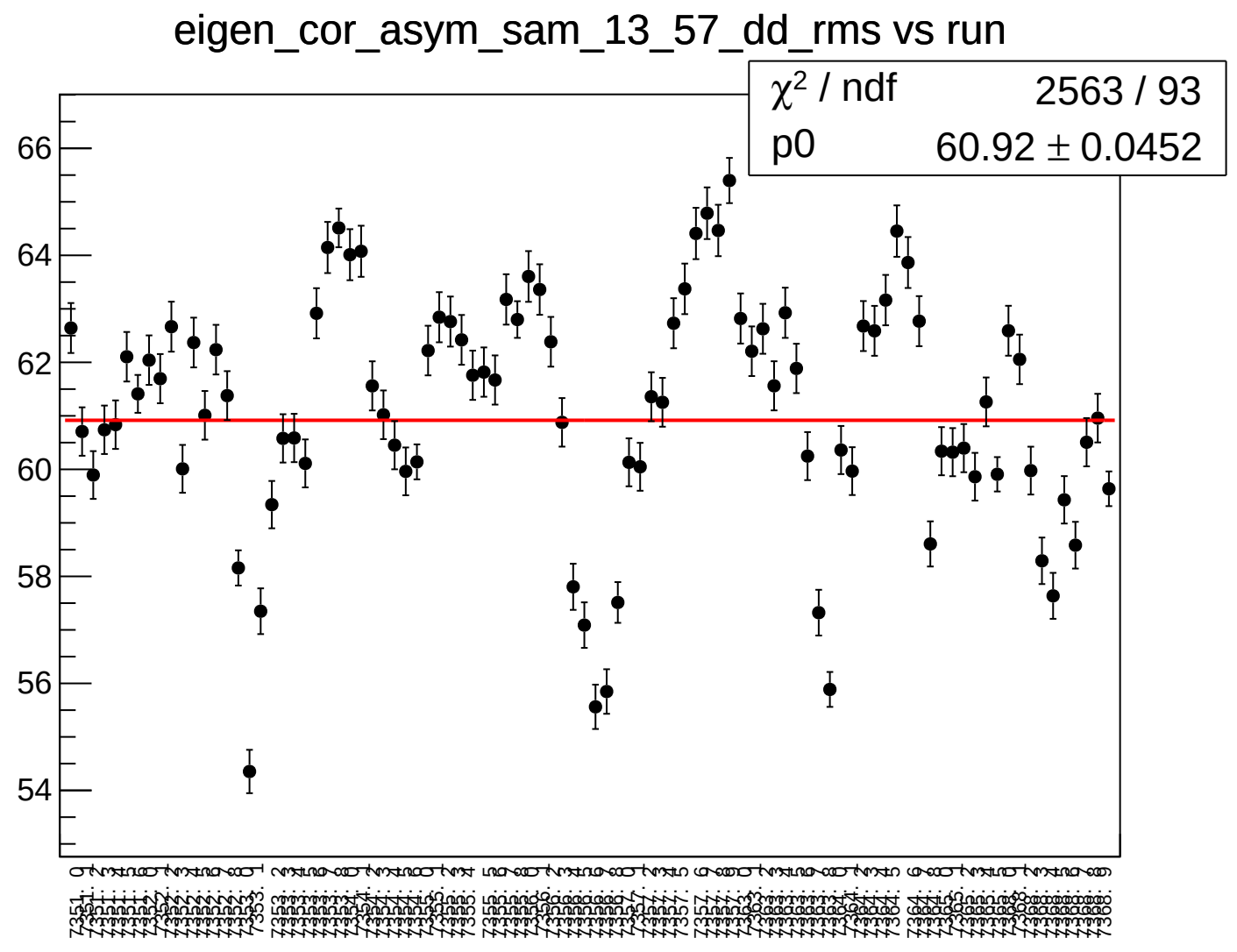

cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 100.1 / 93
p0 47.8 ± 63.93
2000
1000
0
−1000
−2000
pull
Entries 94
Mean 2027
Std Dev 0
pull1D
Entries 94
Mean 0.001872
Std Dev 1.032
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

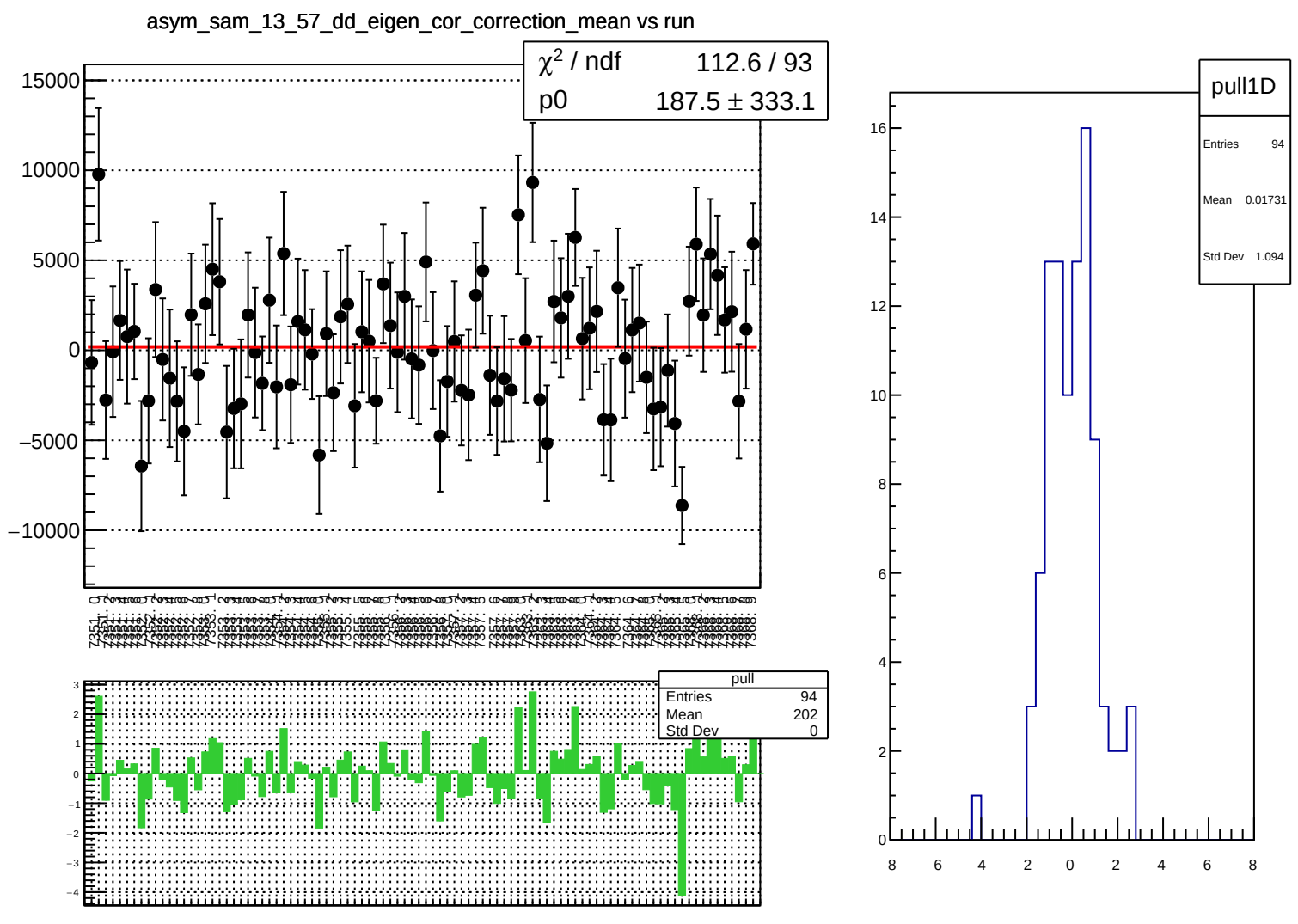

cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 2563 / 93
p0 60.92 ± 0.0452
66
64
62
60
58
56
54

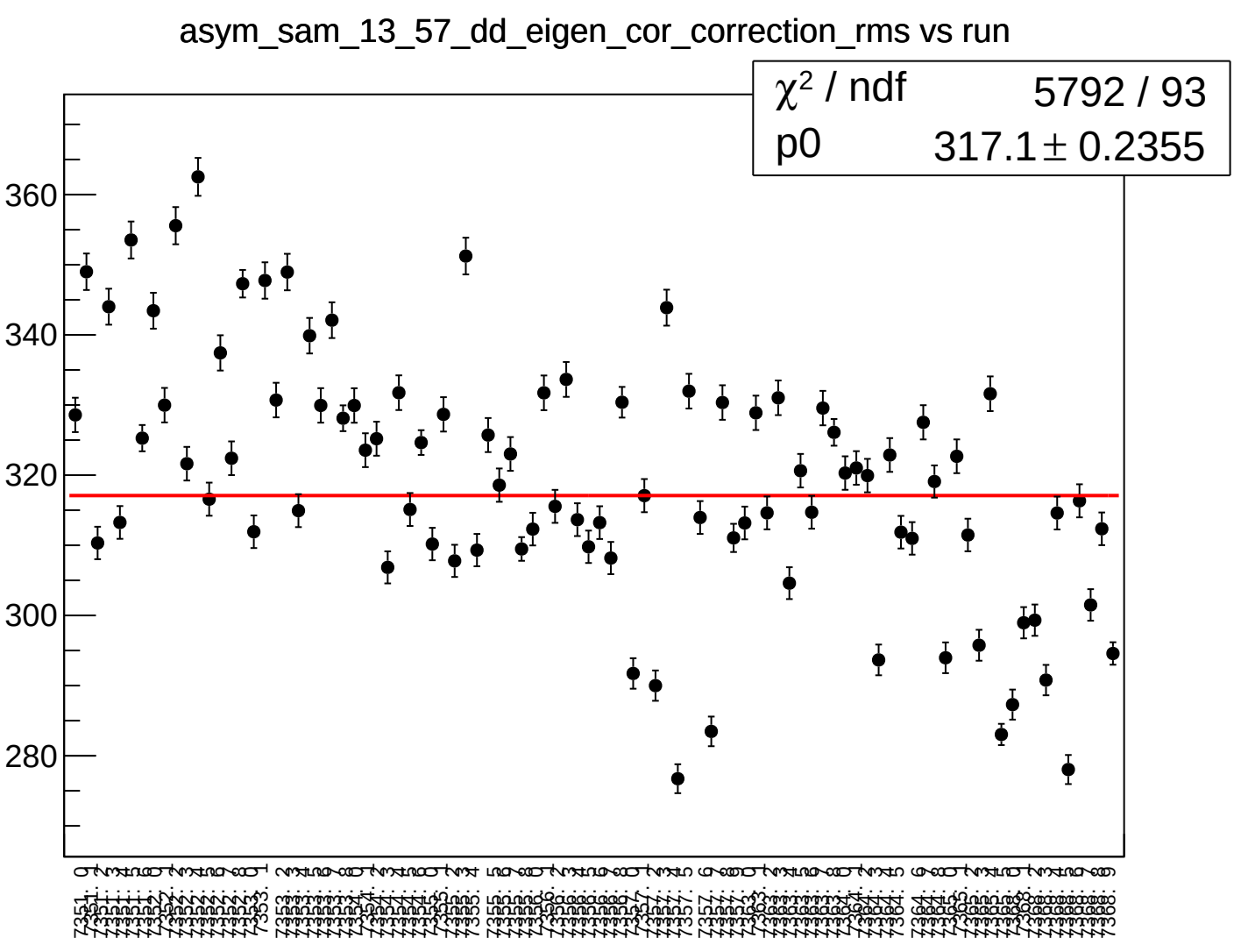

asym_sam_13_57_dd_cor_correction_mean vs run
χ² / ndf 112.6 / 93
p0 187.5 ± 333.1
15000
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 202
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 94
Mean 0.01731
Std Dev 1.094
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

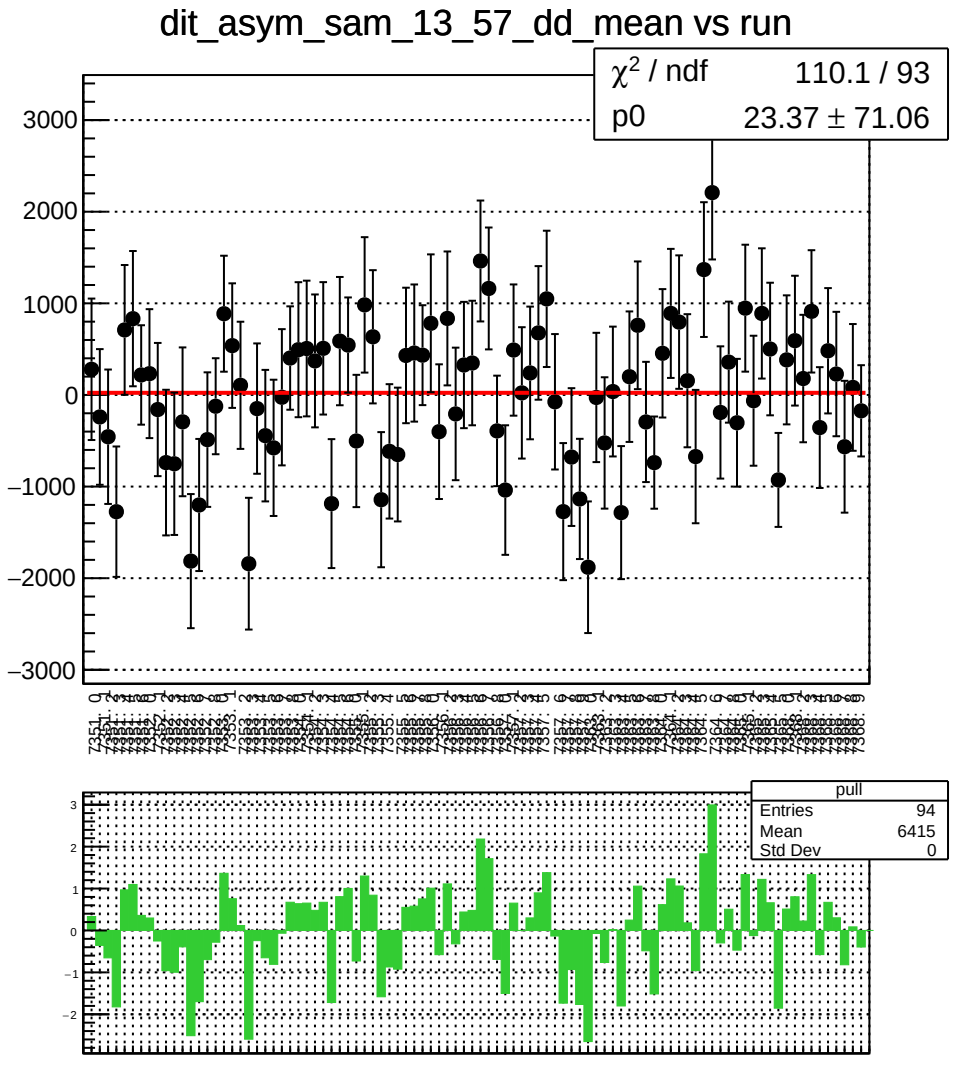

asym_sam_13_57_dd_cor_correction_rms vs run
χ² / ndf 5792 / 93
p0 317.1 ± 0.2355
360
340
320
300
280

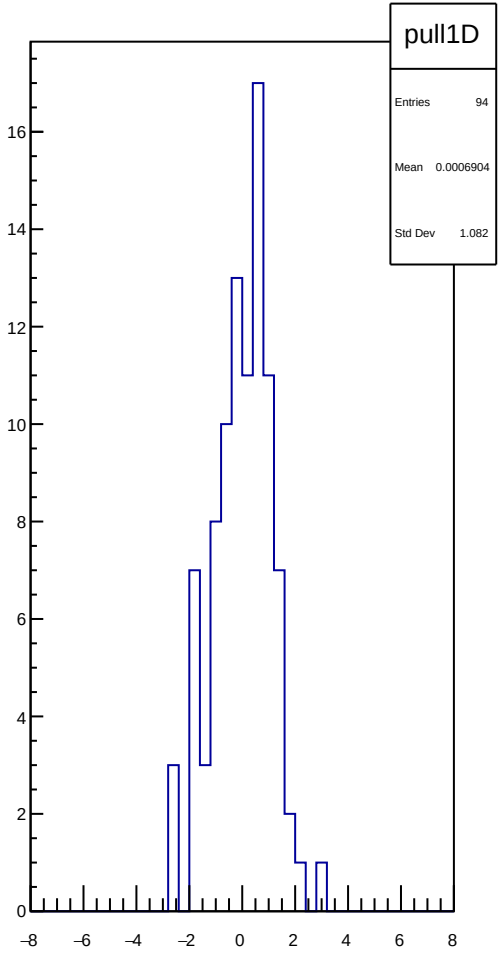

eigen_cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 100.1 / 93
p0 47.8 ± 63.93
2000
1000
0
−1000
−2000
pull
Entries 94
Mean 2027
Std Dev 0
pull1D
Entries 94
Mean 0.001872
Std Dev 1.032

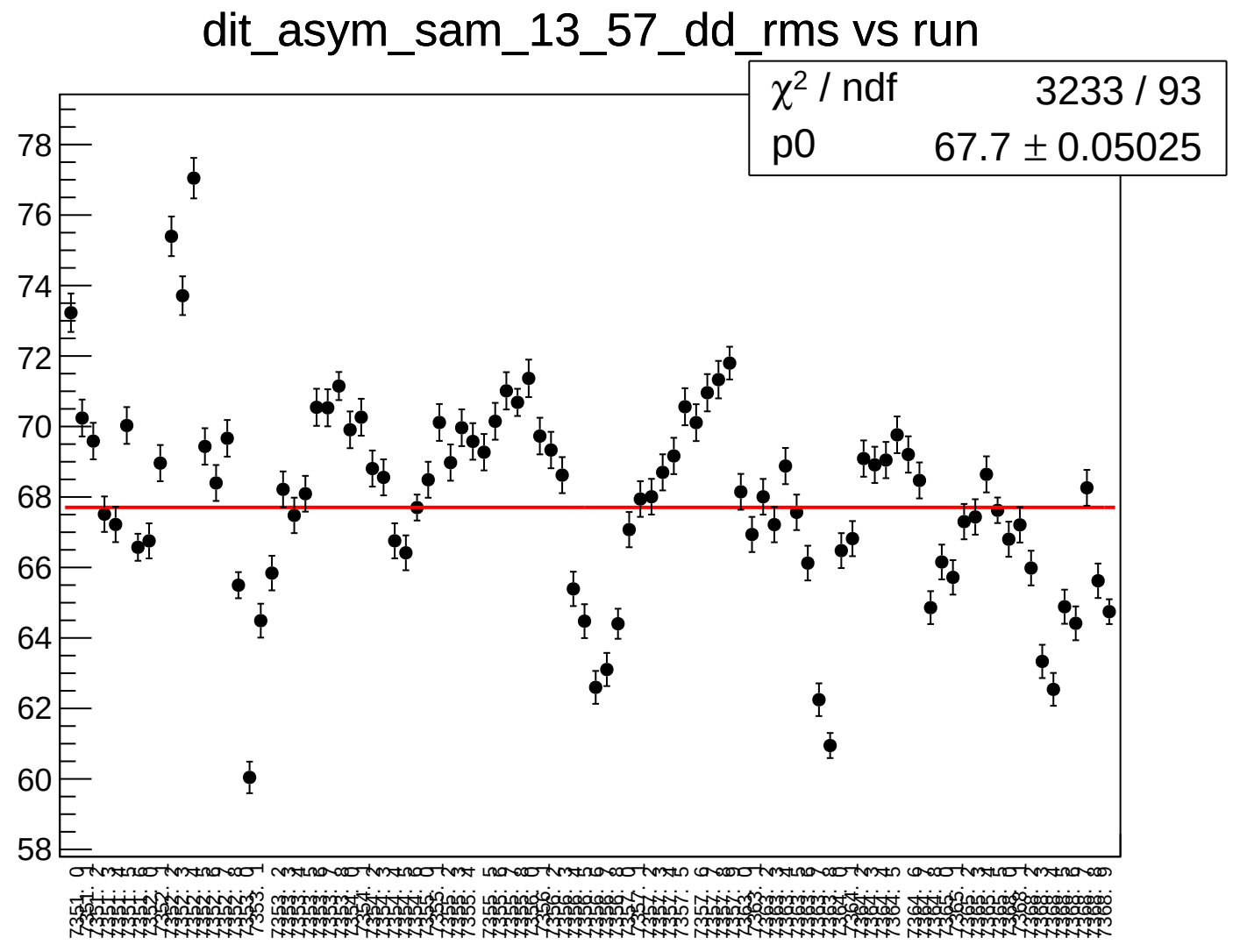

eigen_cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 2563 / 93
p0 60.92 ± 0.0452
66
64
62
60
58
56
54

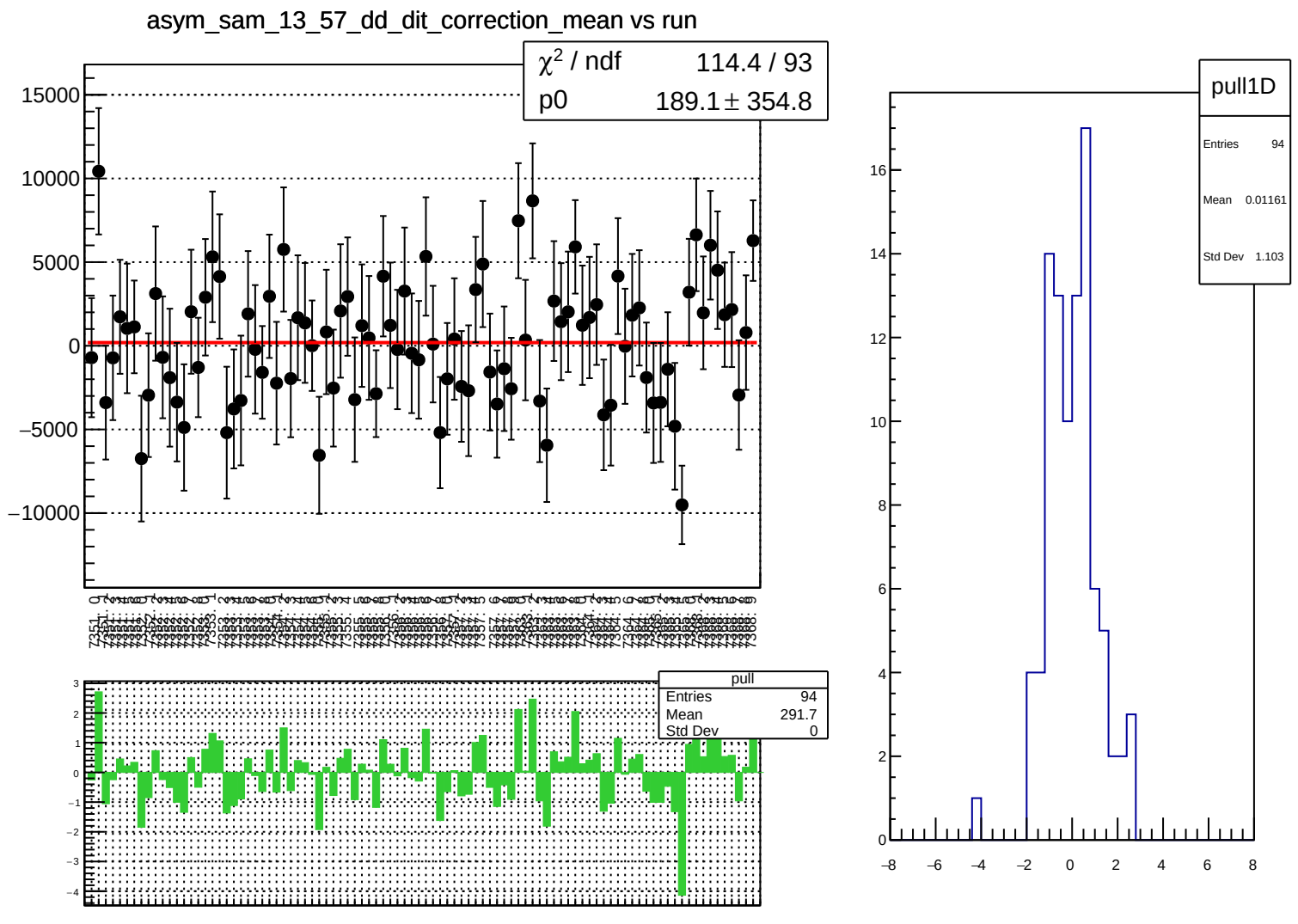

asym_sam_13_57_dd_eigen_cor_correction_mean vs run
χ² / ndf 112.6 / 93
p0 187.5 ± 333.1
15000
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 202
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 94
Mean 0.01731
Std Dev 1.094
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

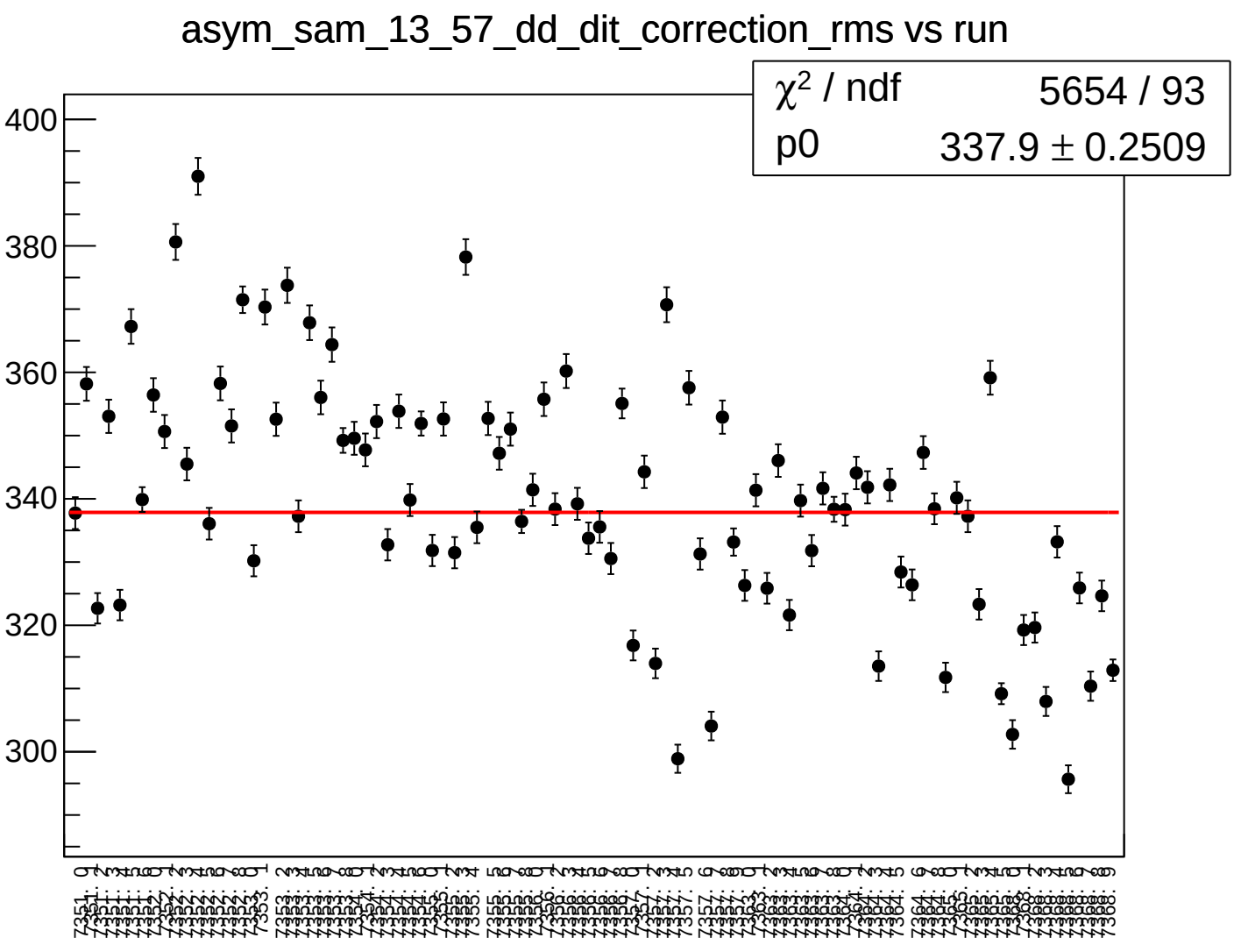

asym_sam_13_57_dd_eigen_cor_correction_rms vs run
χ² / ndf 5792 / 93
p0 317.1 ± 0.2355
360
340
320
300
280

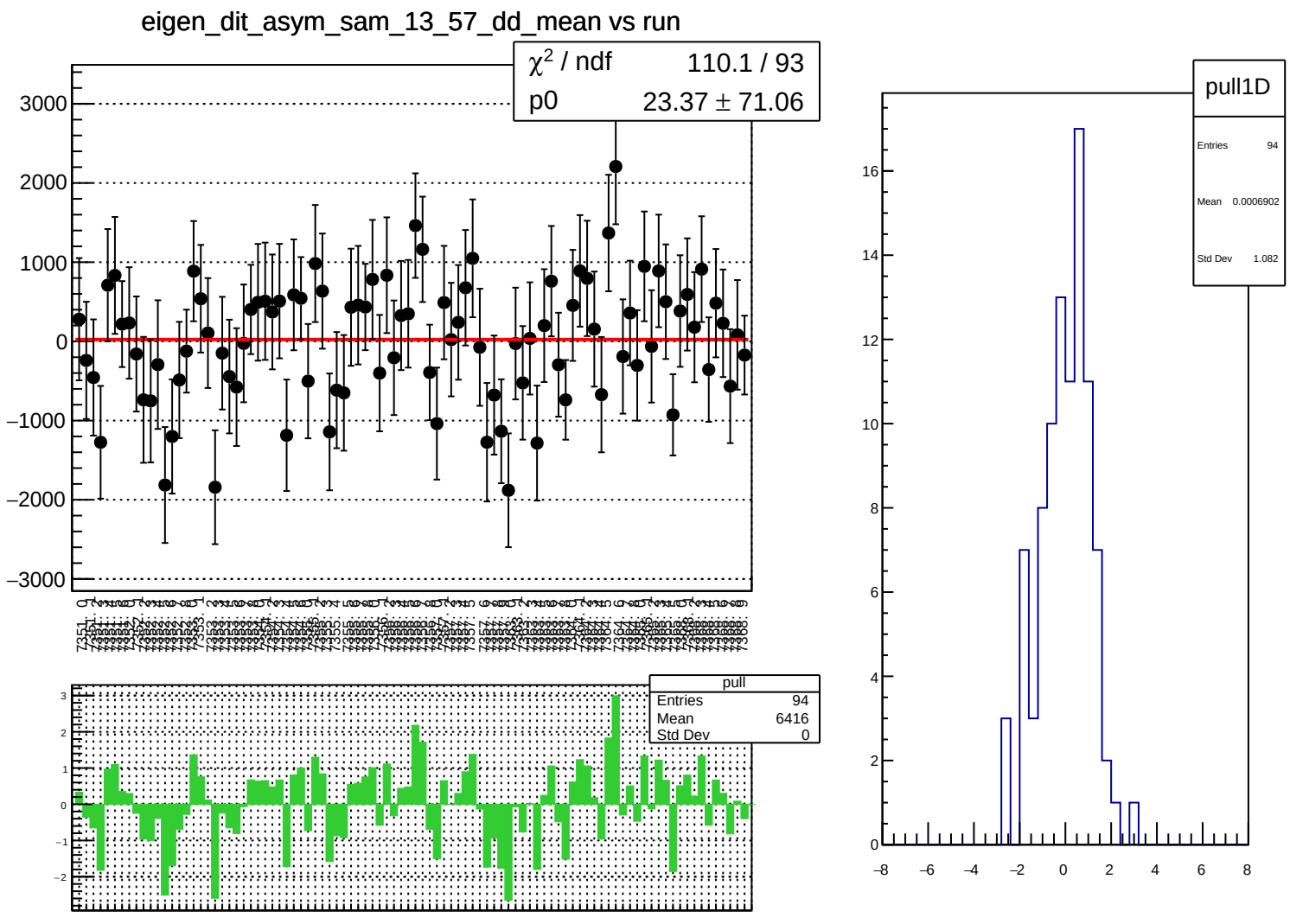

dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 110.1 / 93
p0 23.37 ± 71.06
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 94
Mean 6415
Std Dev 0
3
2
1
0
−1
−2

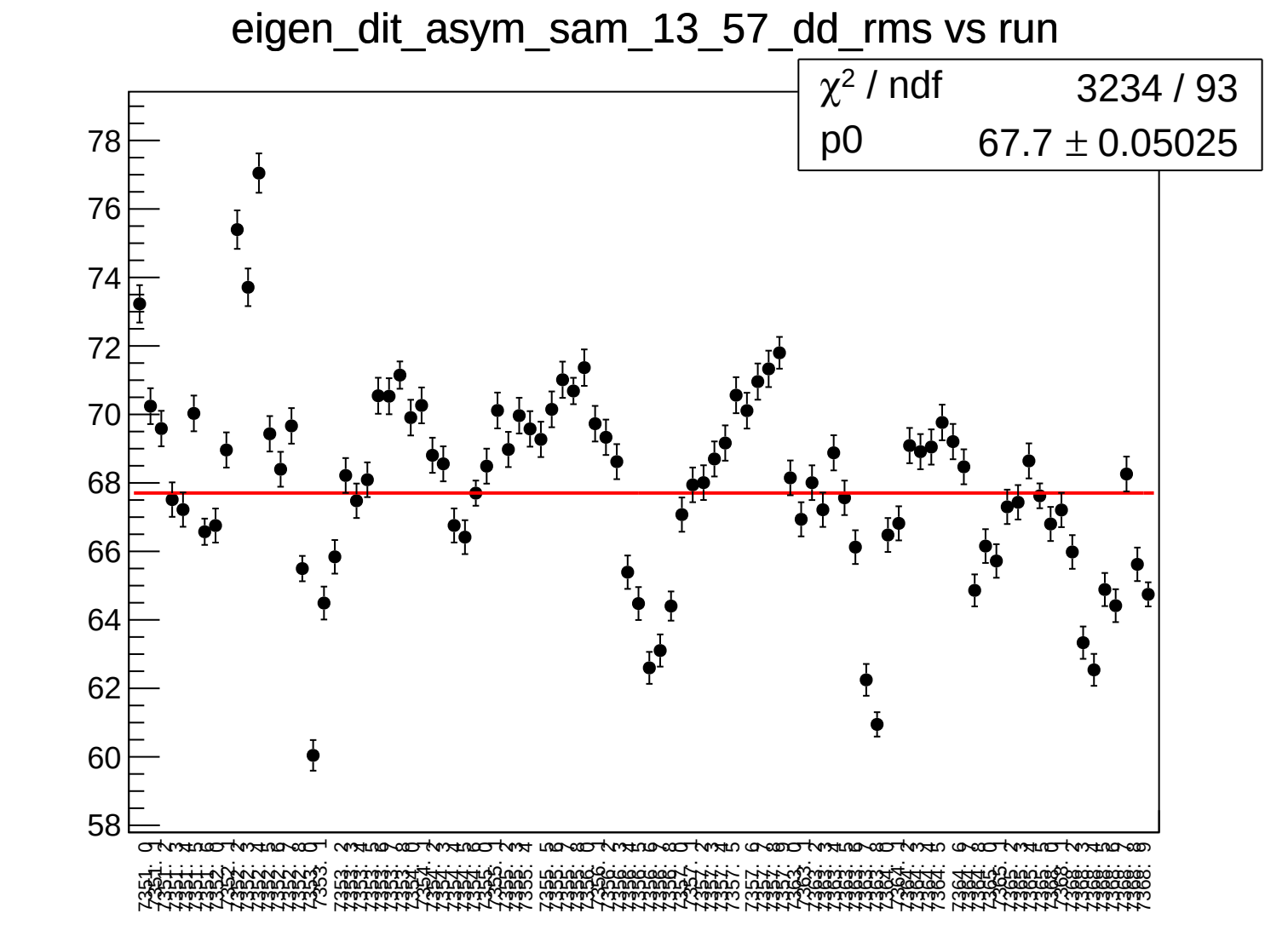

pull1D
Entries 94
Mean 0.0006904
Std Dev 1.082
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

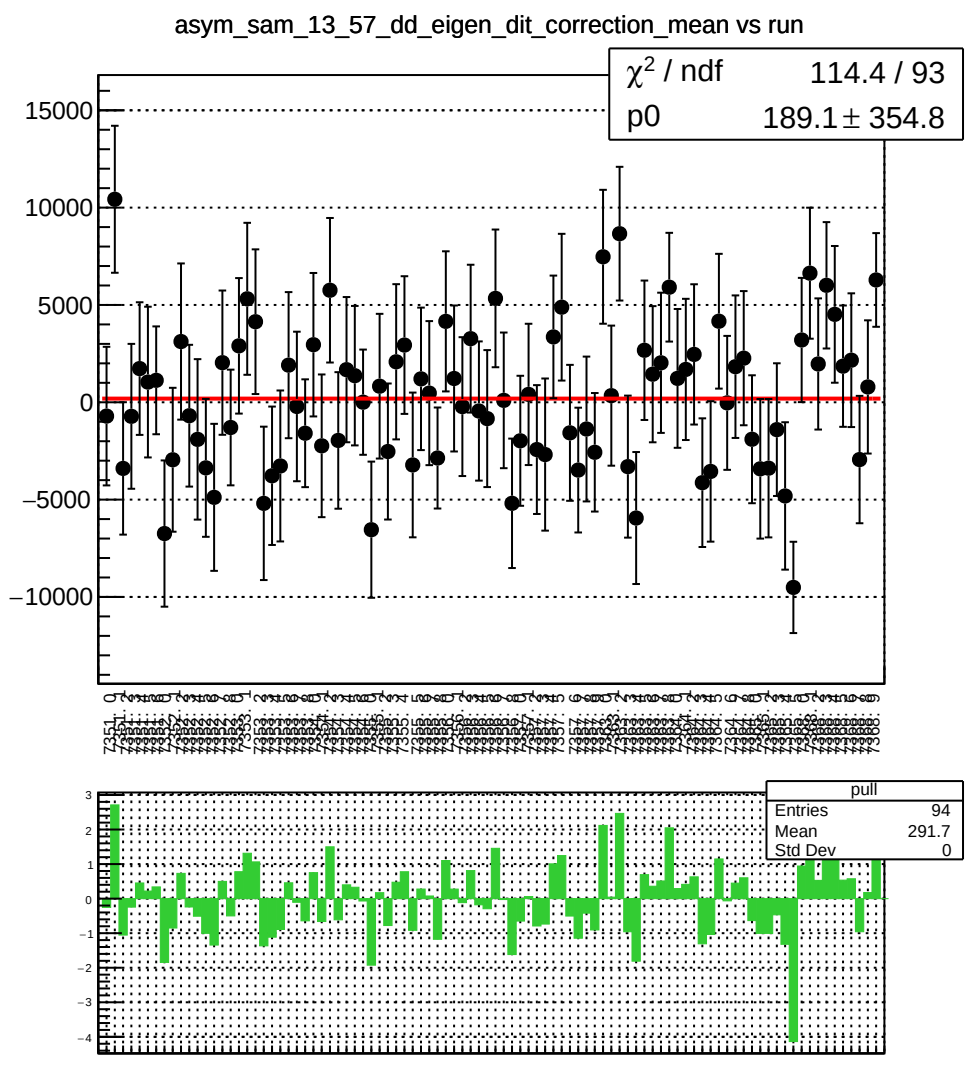

dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 3233 / 93
p0 67.7 ± 0.05025
78
76
74
72
70
68
66
64
62
60
58

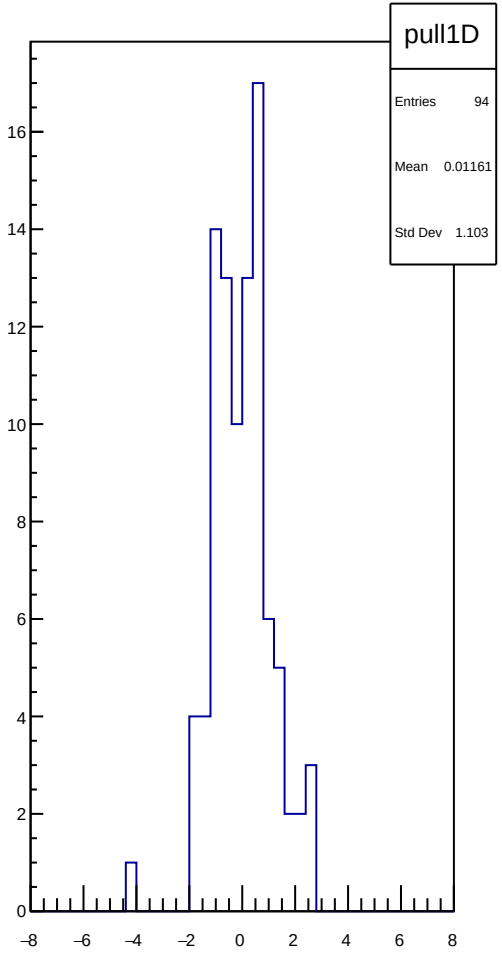

asym_sam_13_57_dd_dit_correction_mean vs run
χ² / ndf 114.4 / 93
p0 189.1 ± 354.8
15000
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 291.7
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 94
Mean 0.01161
Std Dev 1.103
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

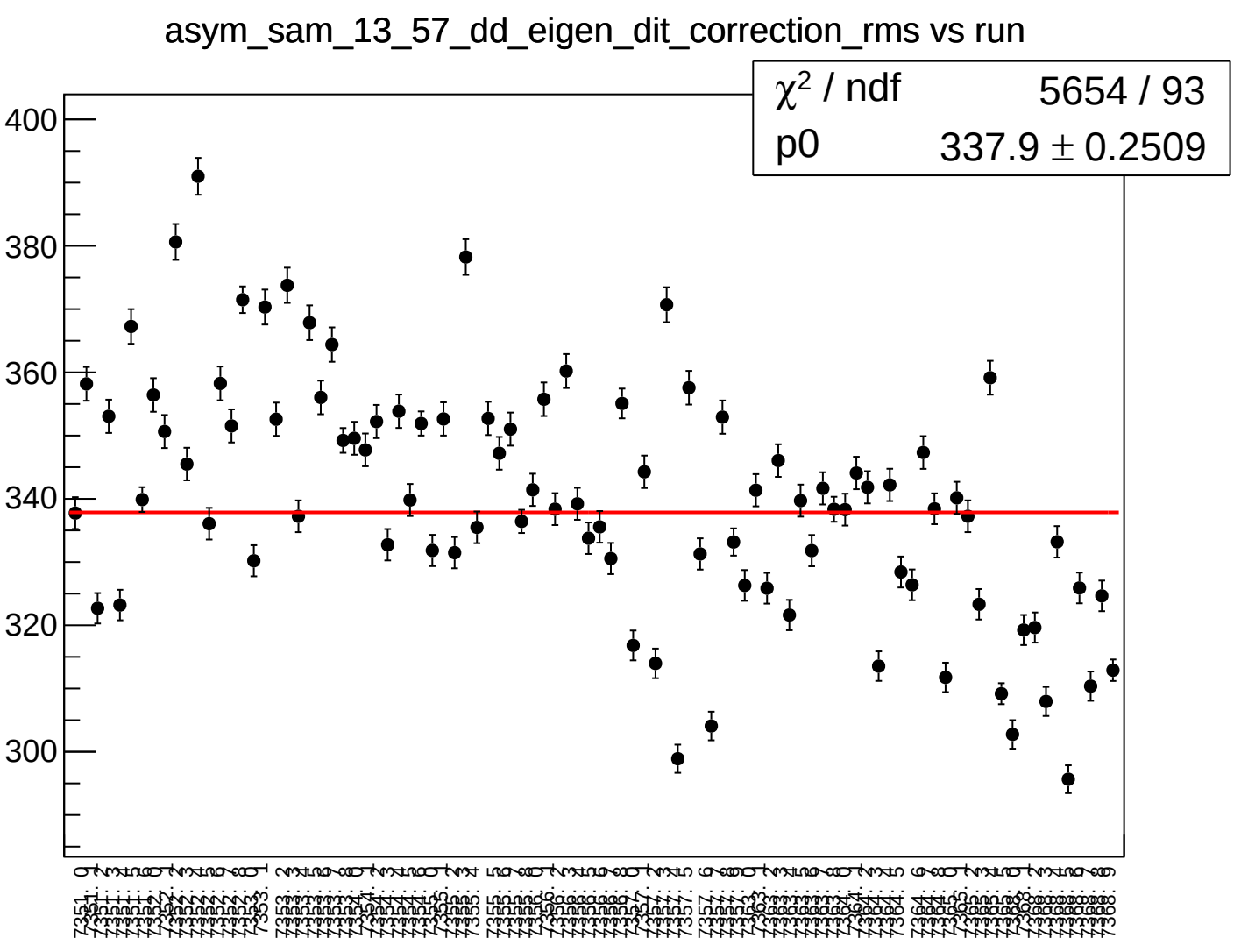

asym_sam_13_57_dd_dit_correction_rms vs run
χ² / ndf 5654 / 93
p0 337.9 ± 0.2509
400
380
360
340
320
300

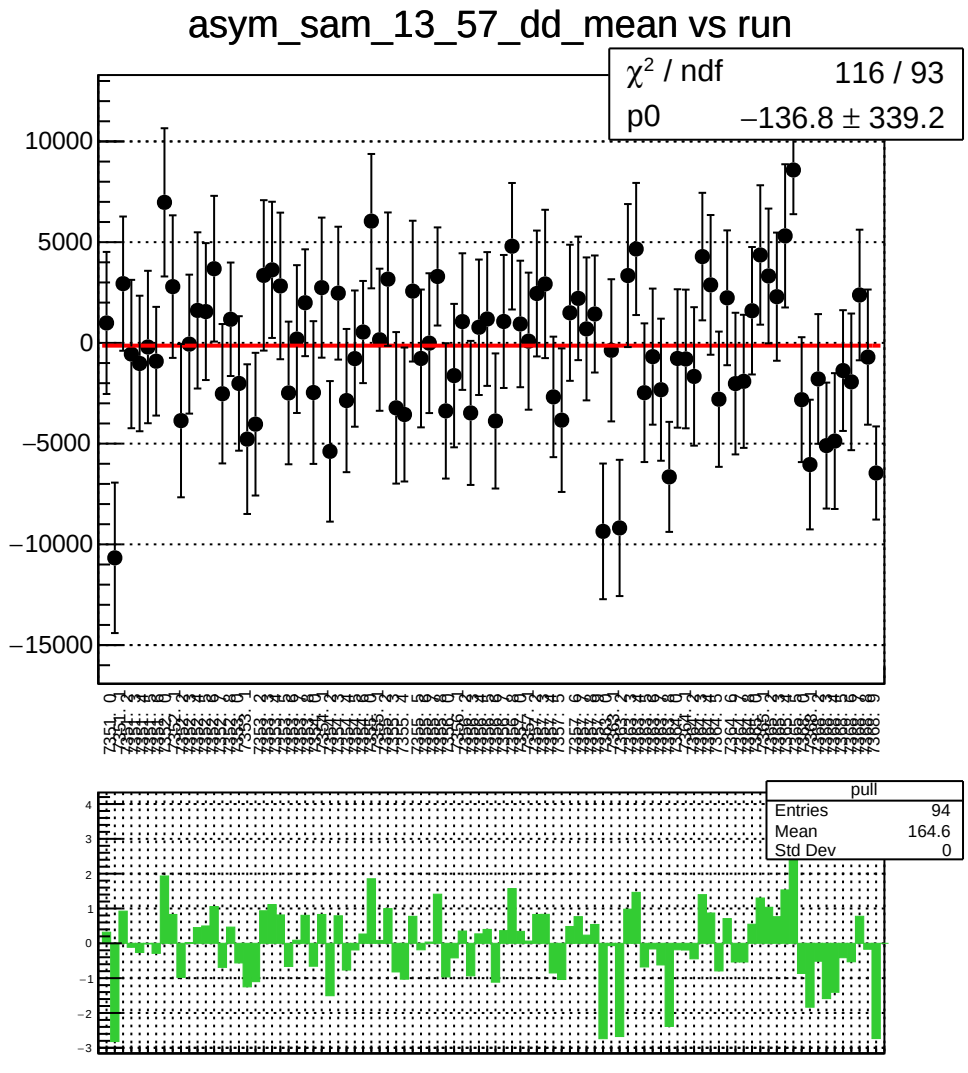

eigen_dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 110.1 / 93
p0 23.37 ± 71.06
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 94
Mean 6416
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.0006902
Std Dev 1.082
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

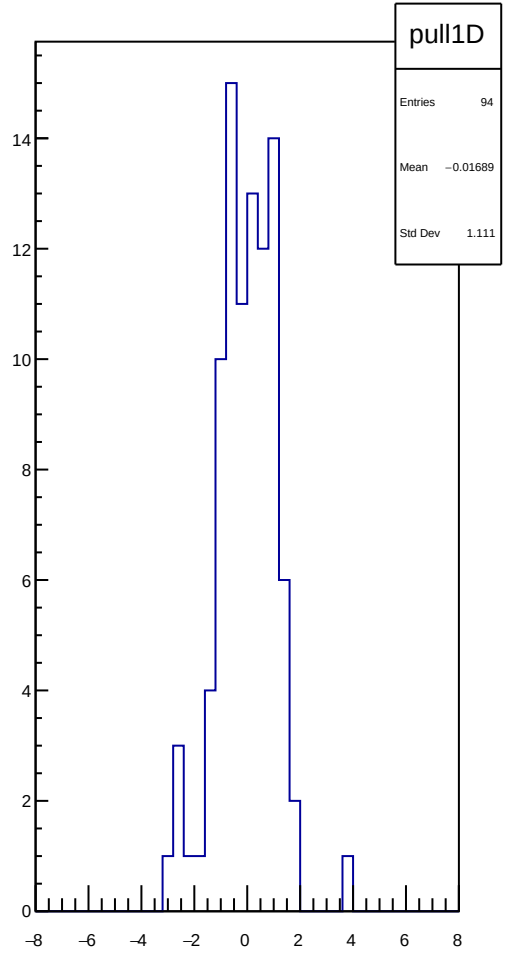

eigen_dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 3234 / 93
p0 67.7 ± 0.05025
78
76
74
72
70
68
66
64
62
60
58

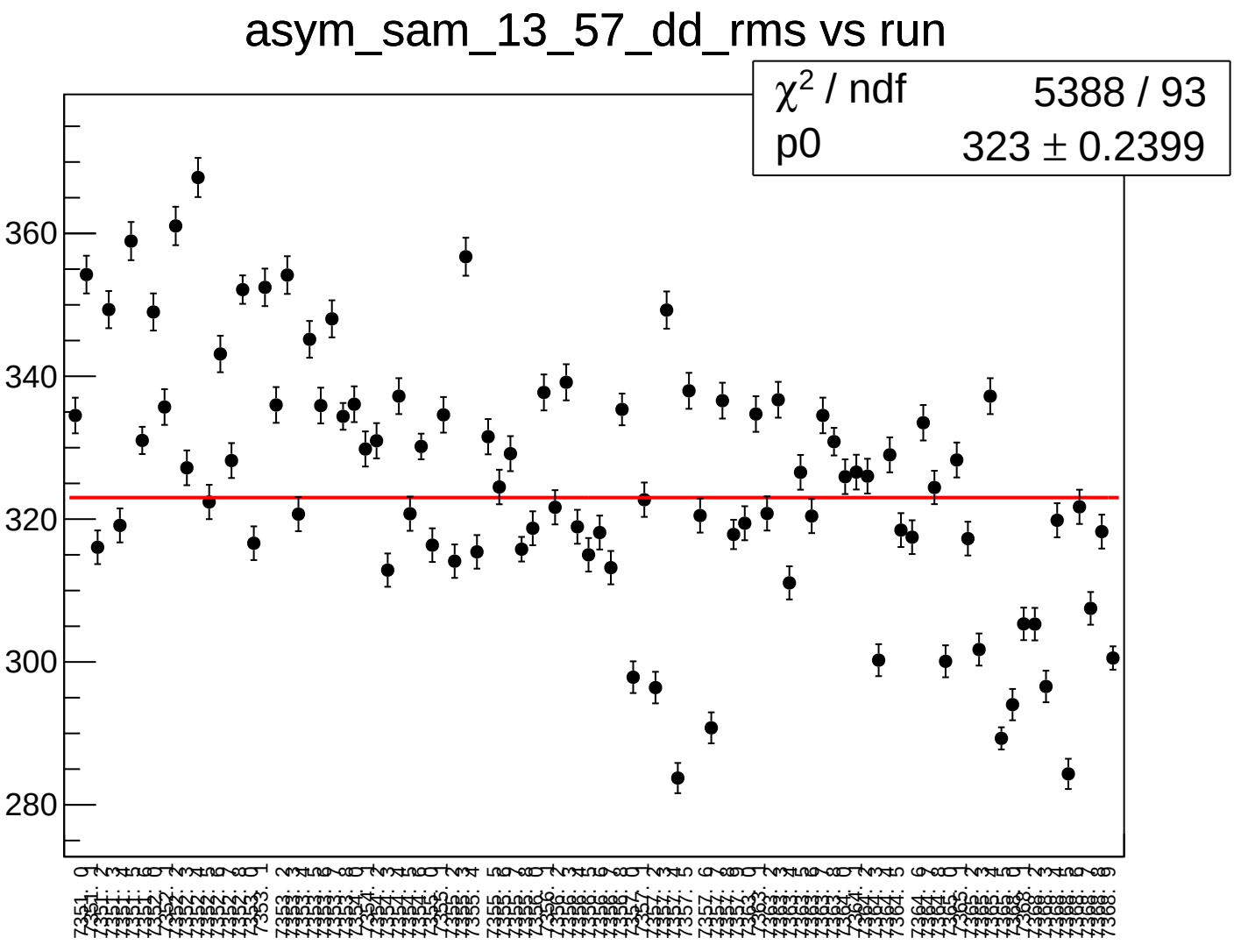

asym_sam_13_57_dd_eigen_dit_correction_mean vs run
χ² / ndf 114.4 / 93
p0 189.1 ± 354.8
15000
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 291.7
Std Dev 0
3
2
1
0
−1
−2
−3
−4

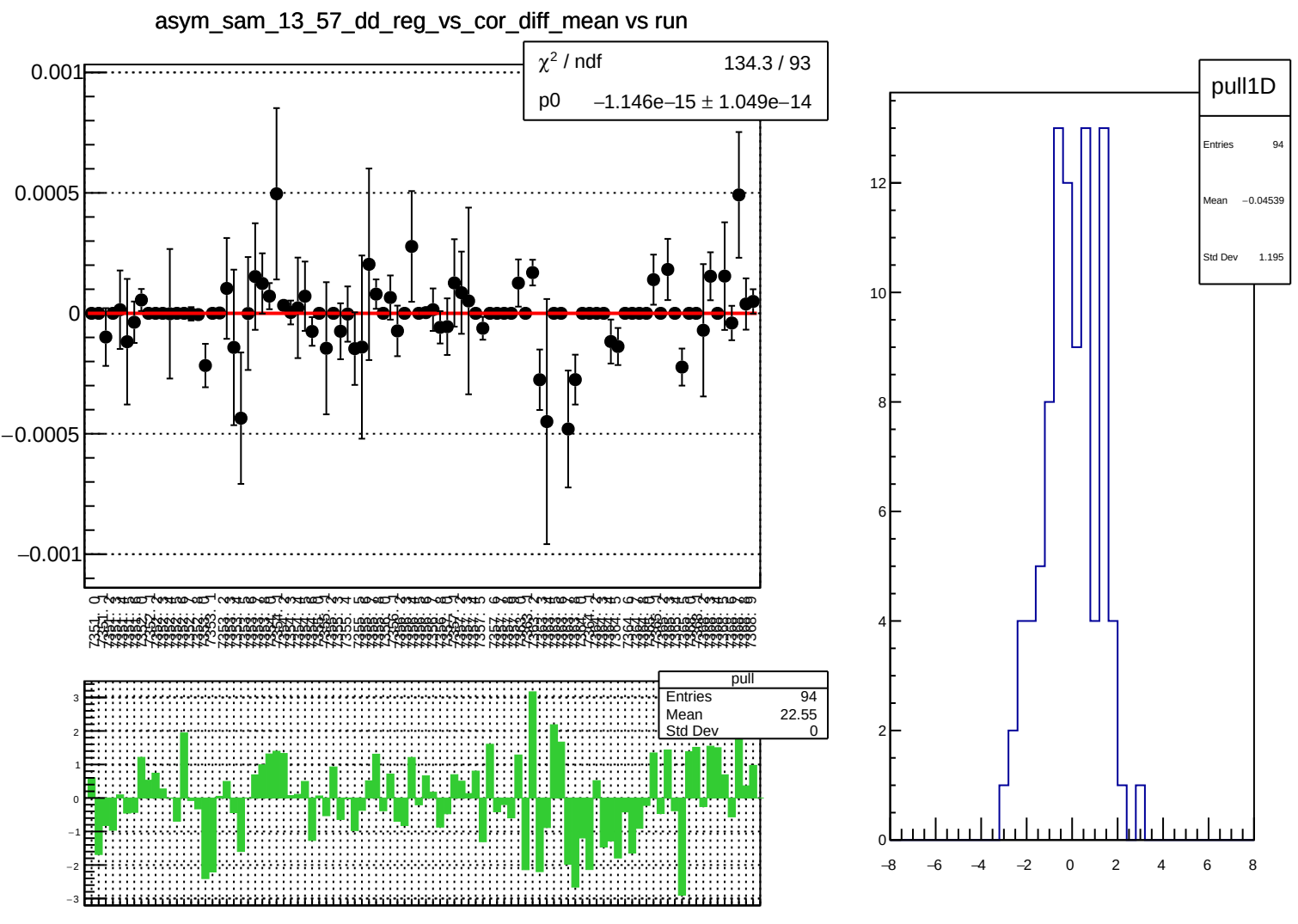

pull1D
Entries 94
Mean 0.01161
Std Dev 1.103
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

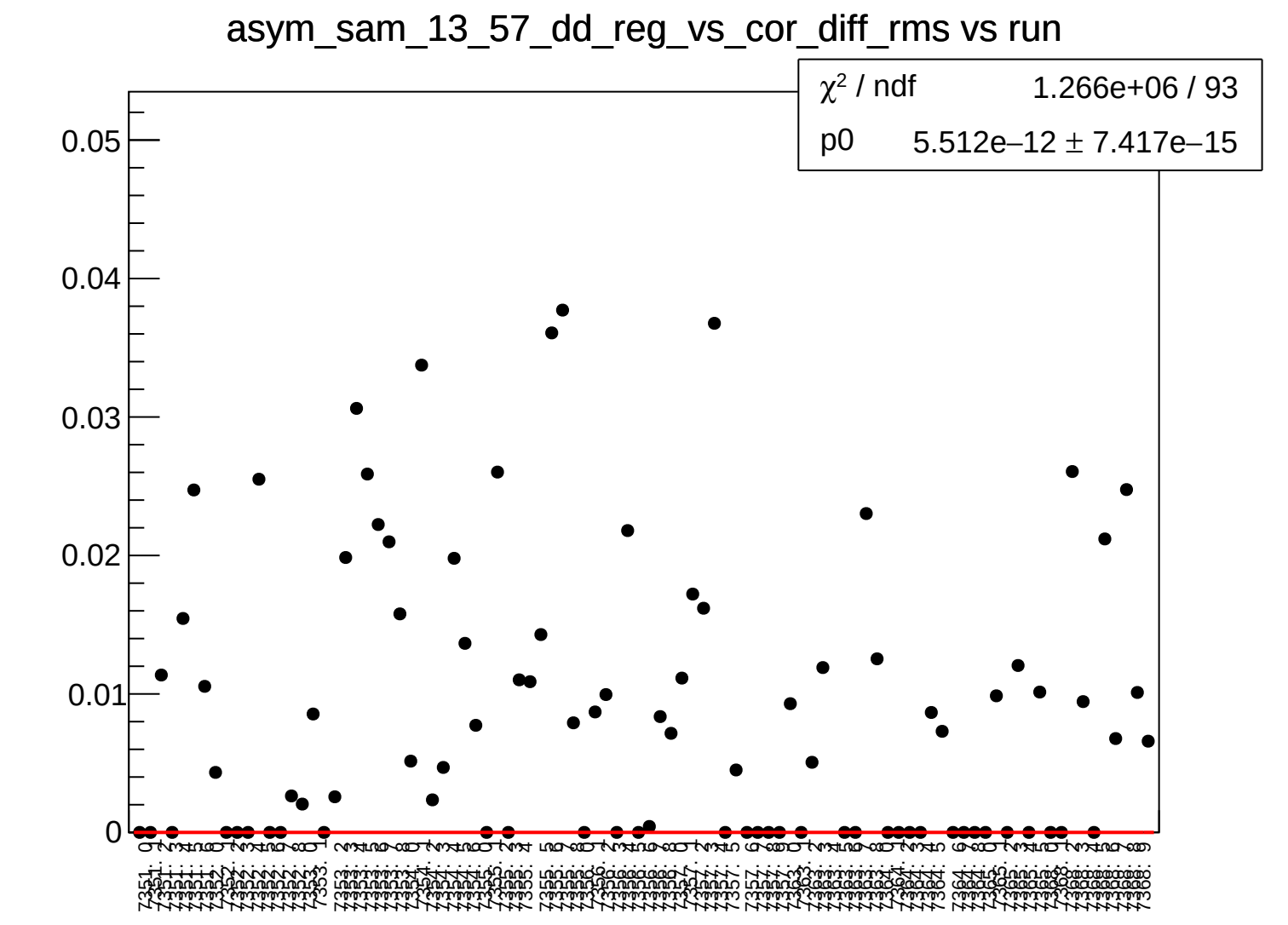

asym_sam_13_57_dd_eigen_dit_correction_rms vs run
χ² / ndf 5654 / 93
p0 337.9 ± 0.2509
400
380
360
340
320
300

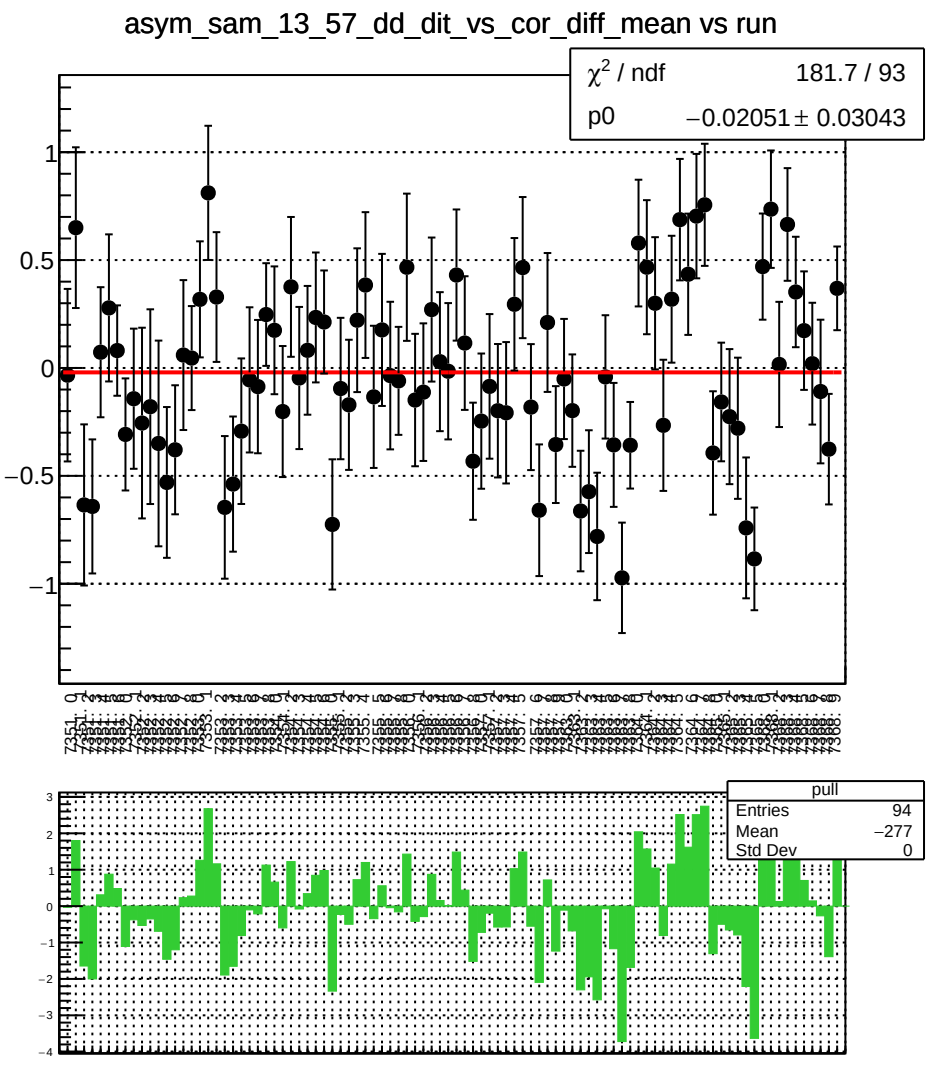

asym_sam_13_57_dd_mean vs run
χ² / ndf 116 / 93
p0 −136.8 ± 339.2
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean 164.6
Std Dev 0
4
3
2
1
0
−1
−2
−3

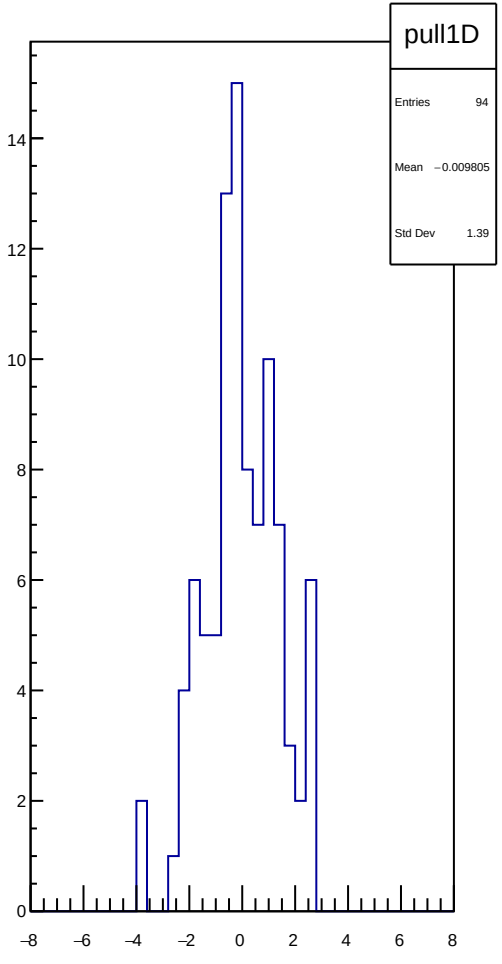

pull1D
Entries 94
Mean −0.01689
Std Dev 1.111
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

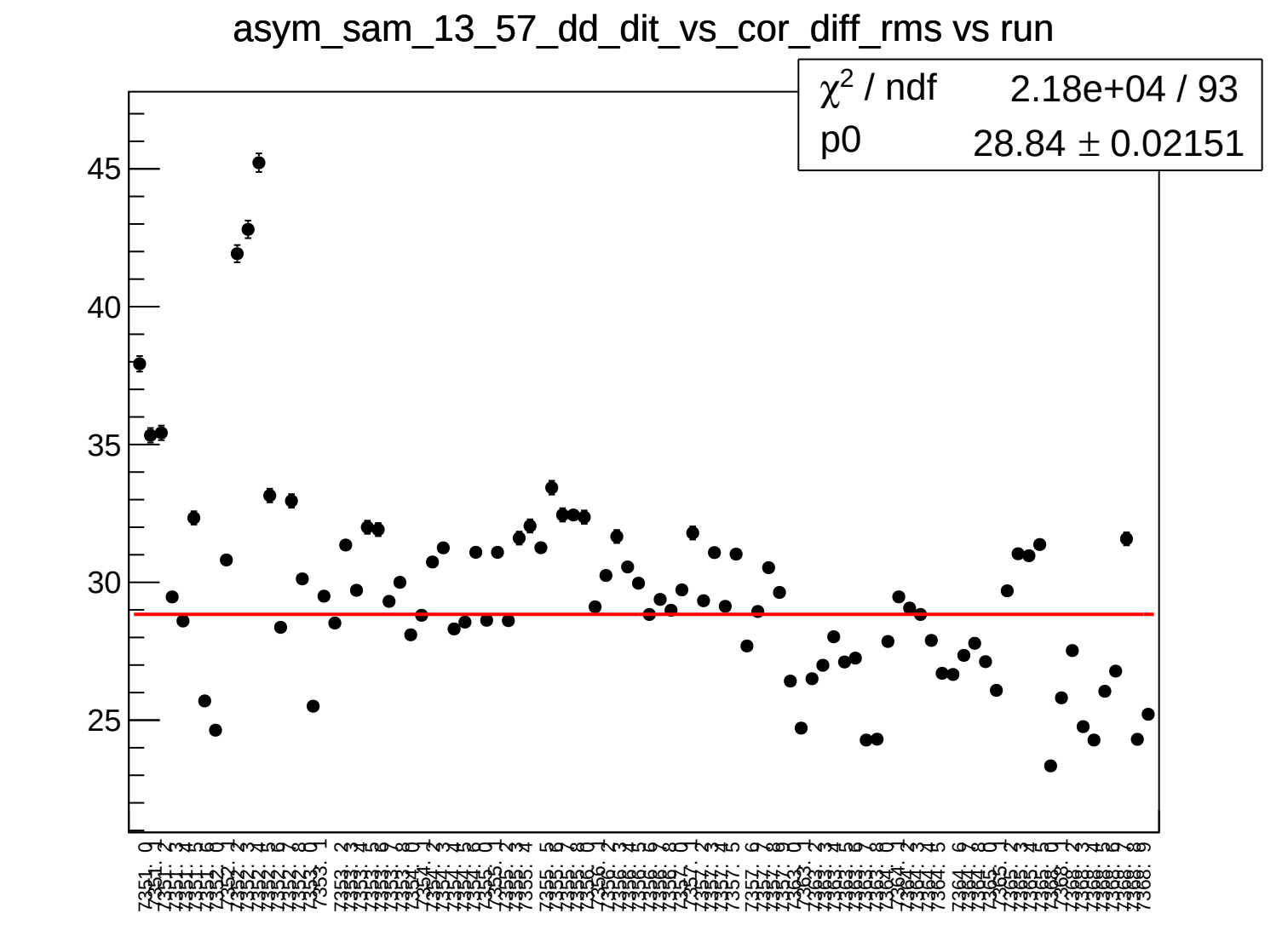

asym_sam_13_57_dd_rms vs run
χ^2 / ndf 5388 / 93
p0 323 ± 0.2399
360
340
320
300
280

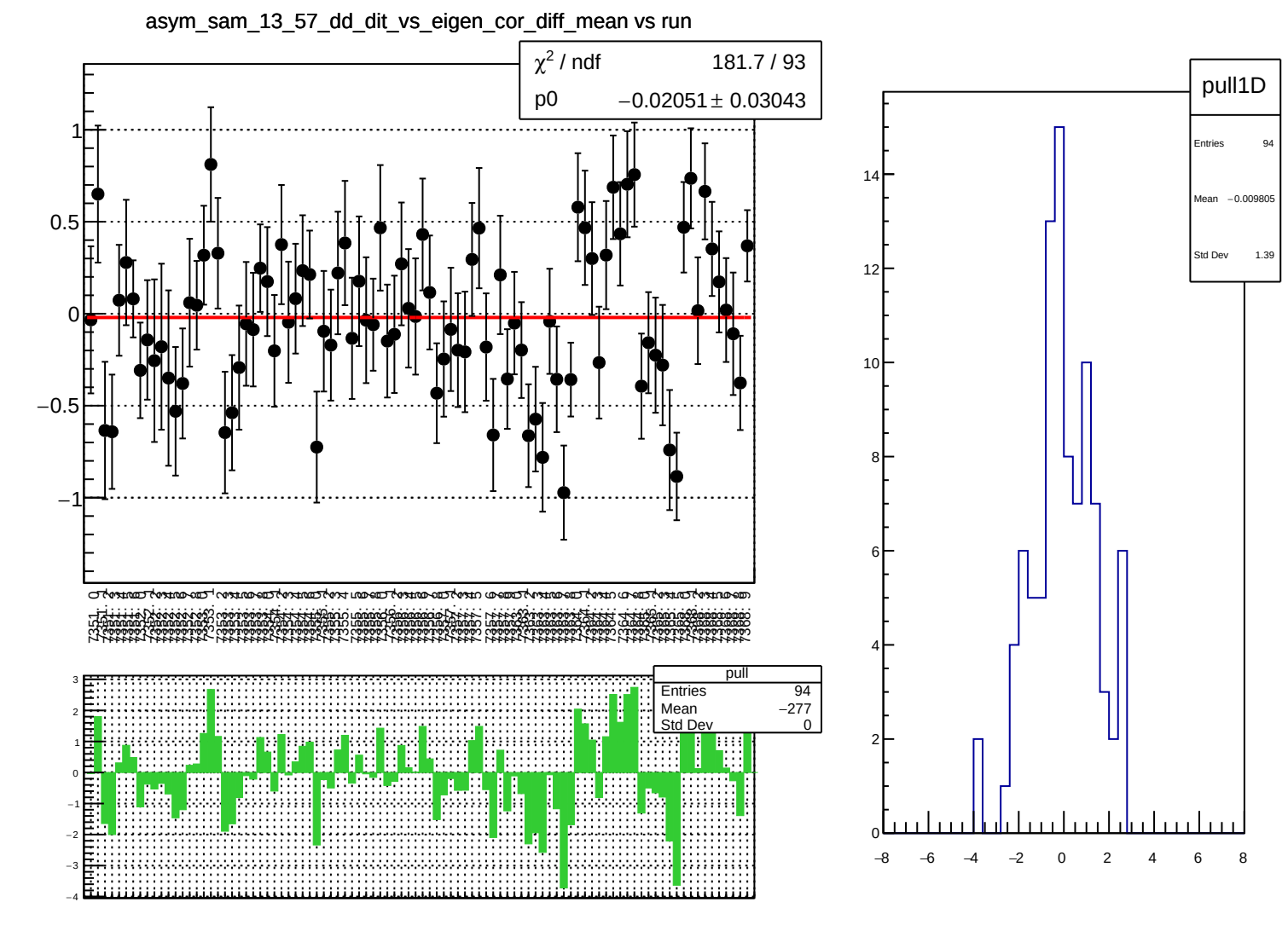

asym_sam_13_57_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 134.3 / 93
p0 −1.146e−15 ± 1.049e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 94
Mean 22.55
Std Dev 0
pull1D
Entries 94
Mean −0.04539
Std Dev 1.195

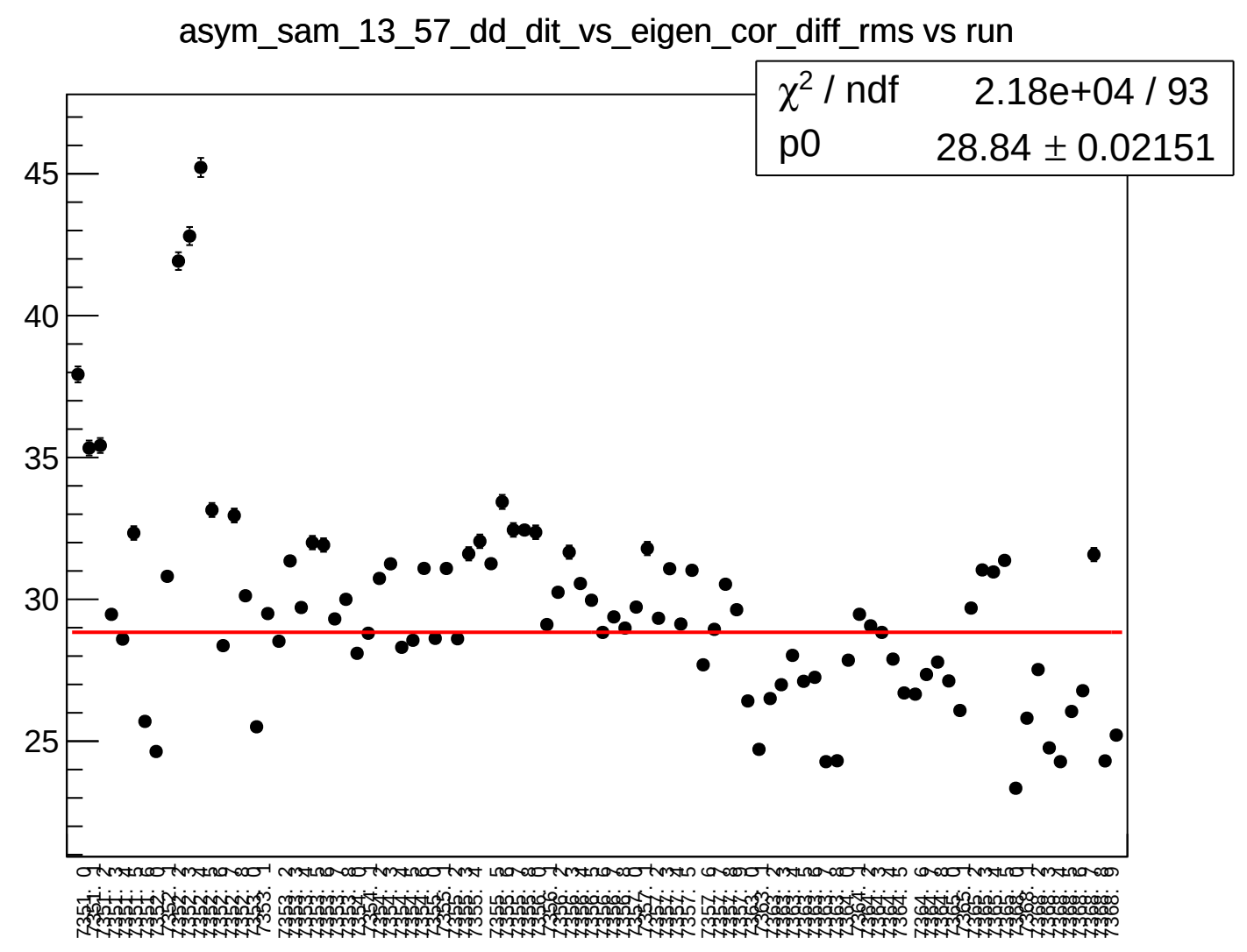

asym_sam_13_57_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.266e+06 / 93
p0 5.512e−12 ± 7.417e−15
0.05
0.04
0.03
0.02
0.01
0

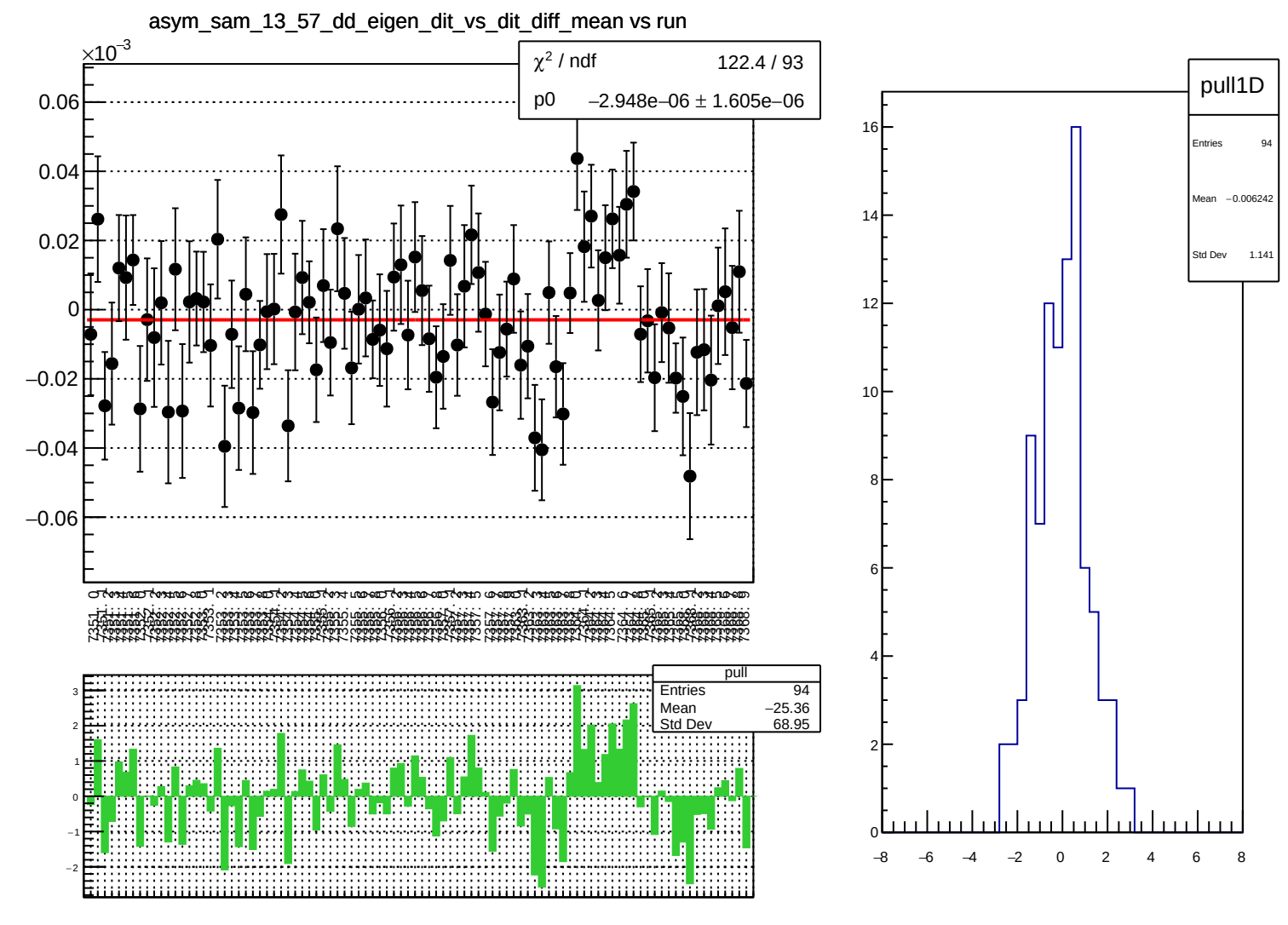

asym_sam_13_57_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 181.7 / 93
p0 −0.02051 ± 0.03043
pull
Entries 94
Mean −277
Std Dev 0

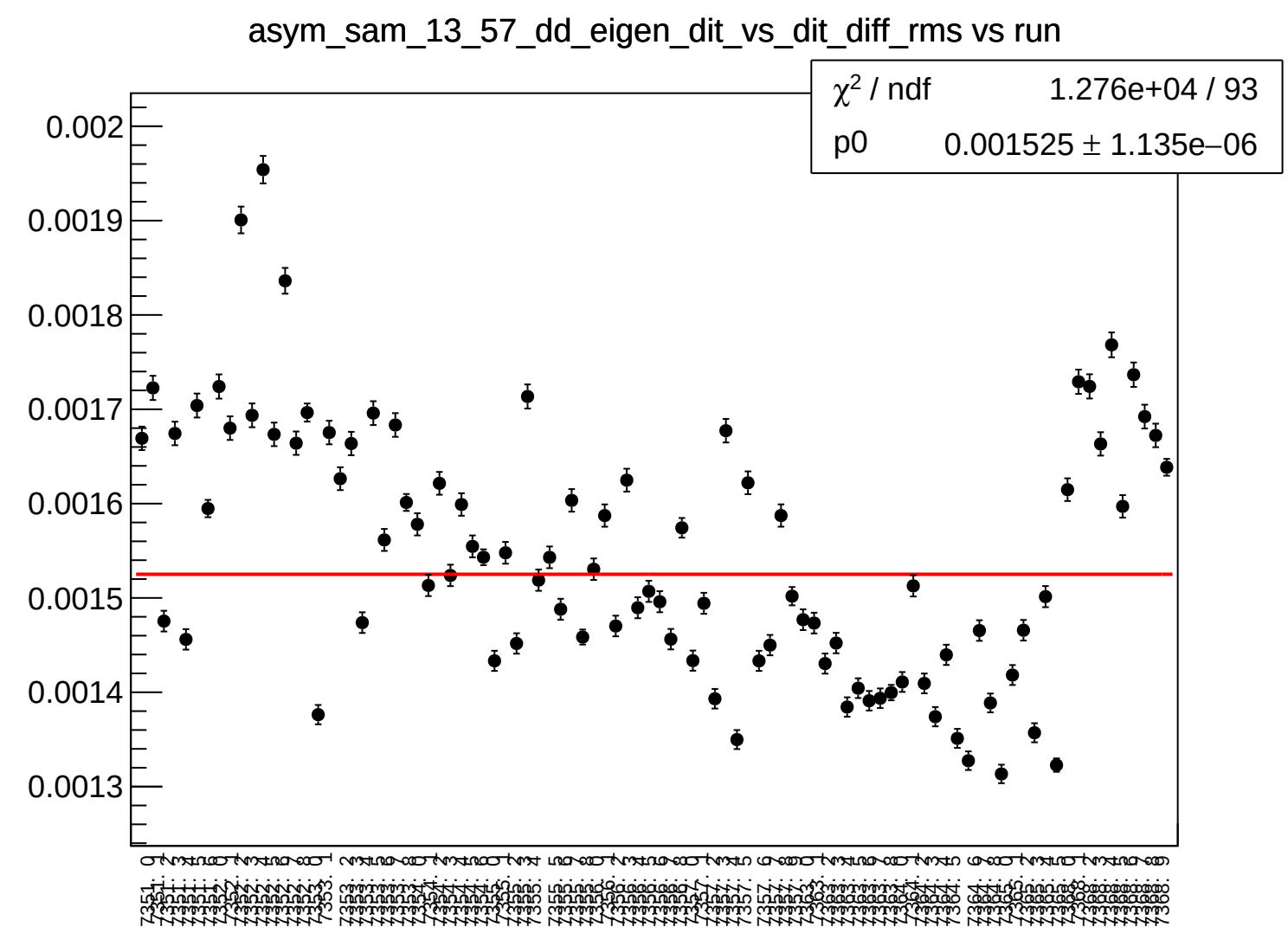

pull1D
Entries 94
Mean −0.009805
Std Dev 1.39

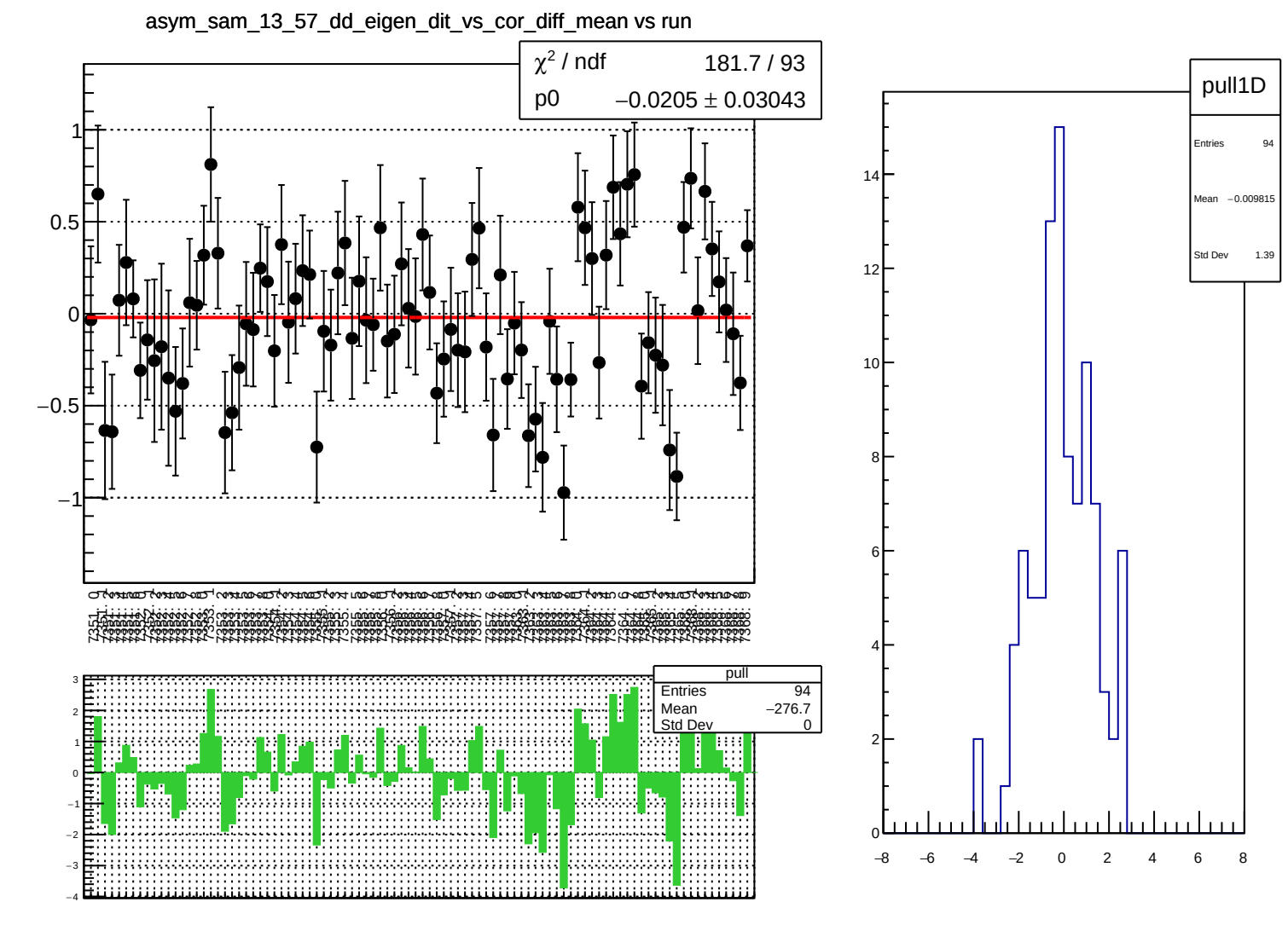

asym_sam_13_57_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.18e+04 / 93
p0 28.84 ± 0.02151
45
40
35
30
25

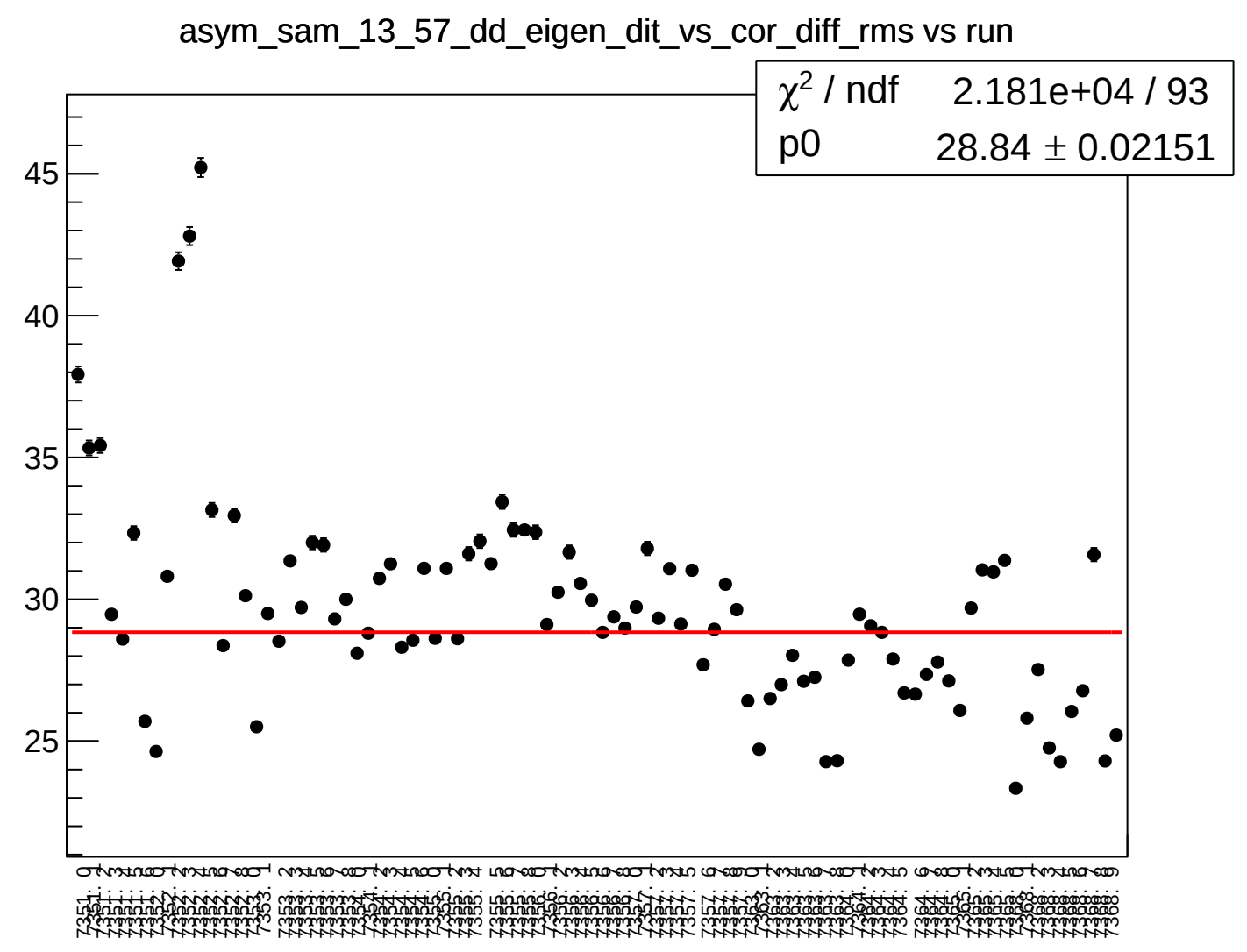

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 181.7 / 93
p0 −0.02051 ± 0.03043
pull
Entries 94
Mean −277
Std Dev 0
pull1D
Entries 94
Mean −0.009805
Std Dev 1.39

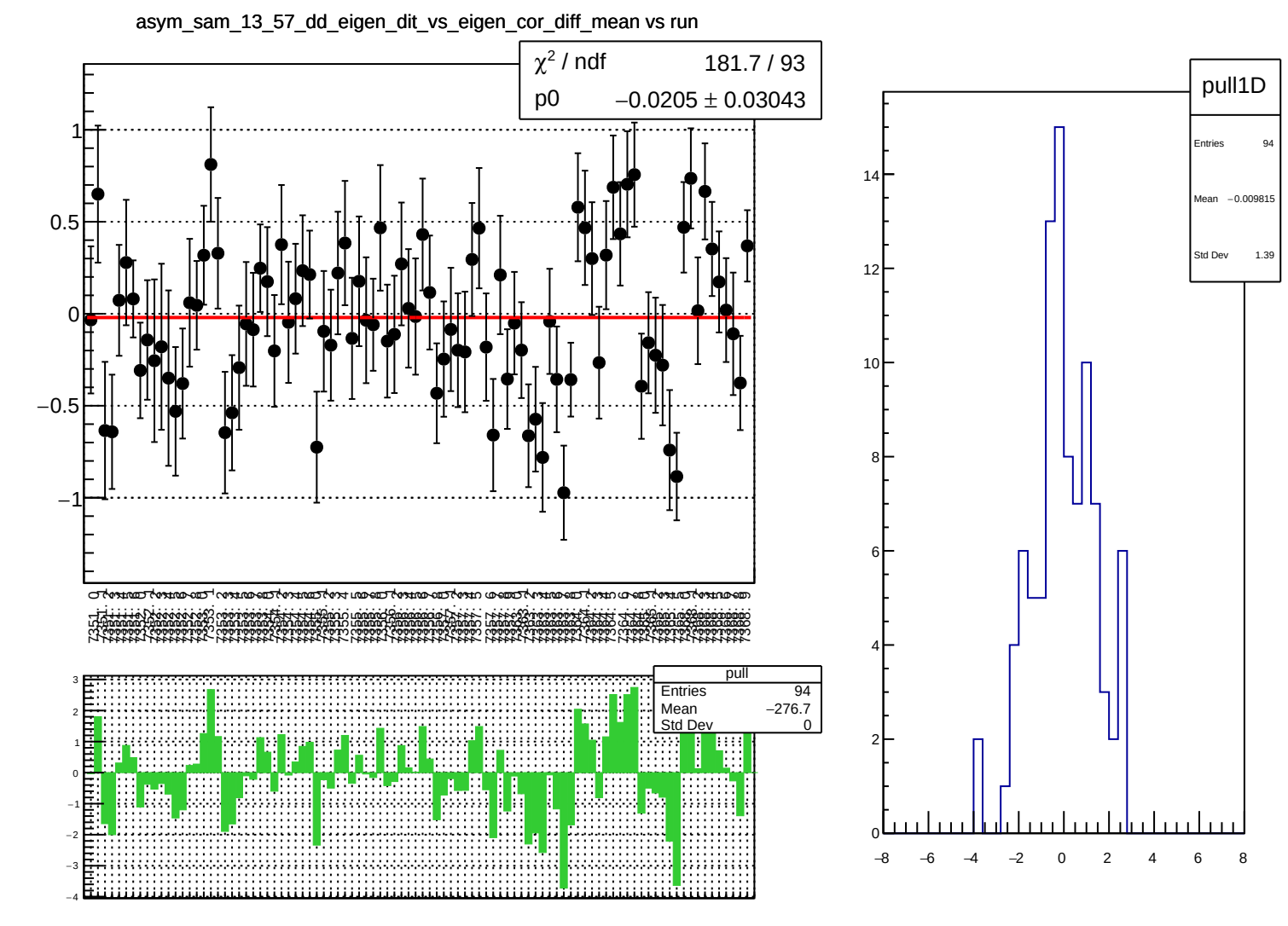

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.18e+04 / 93
p0 28.84 ± 0.02151
45
40
35
30
25

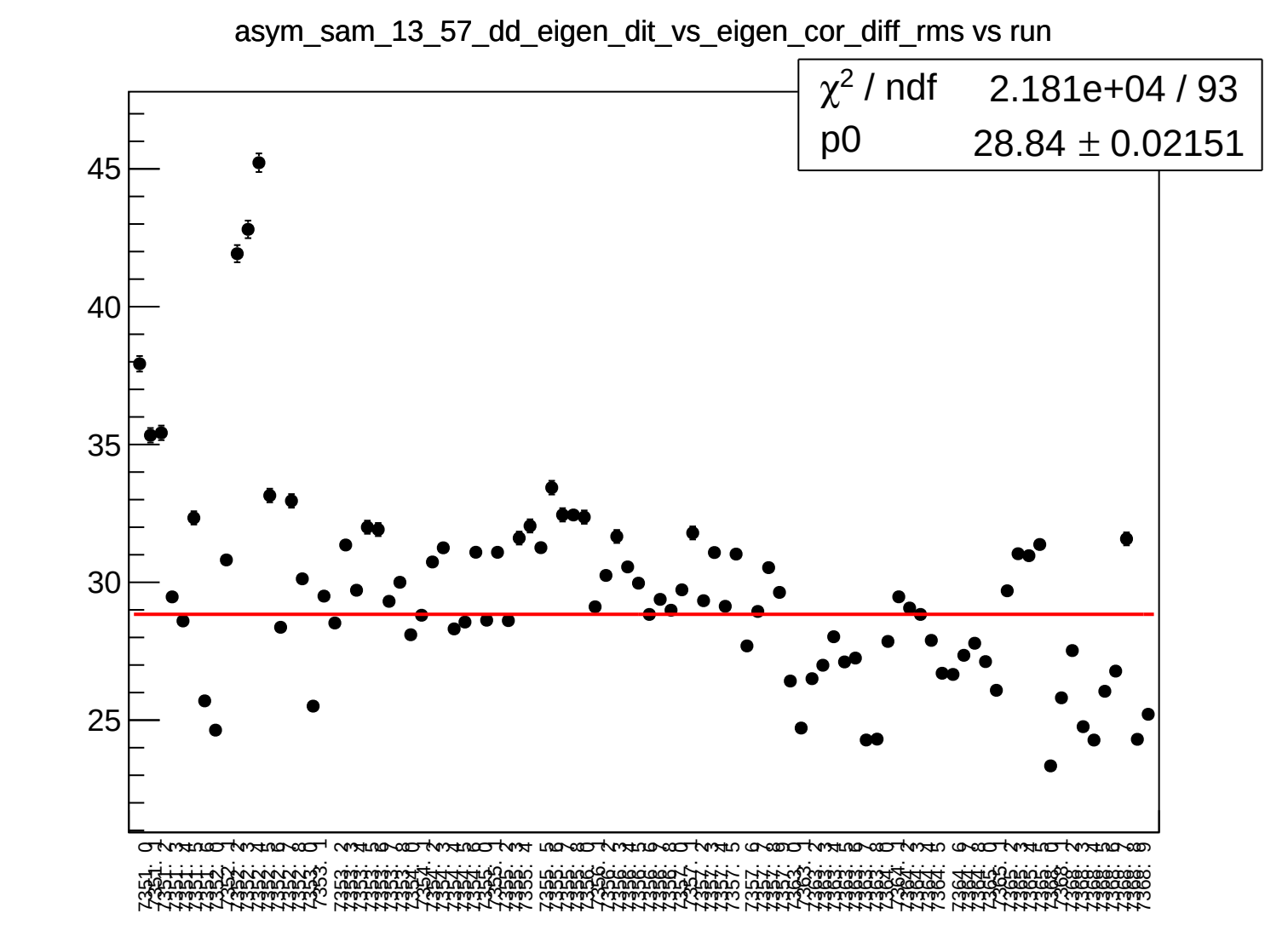

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 122.4 / 93
p0 −2.948e−06 ± 1.605e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 94
Mean −25.36
Std Dev 68.95
3
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.006242
Std Dev 1.141
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

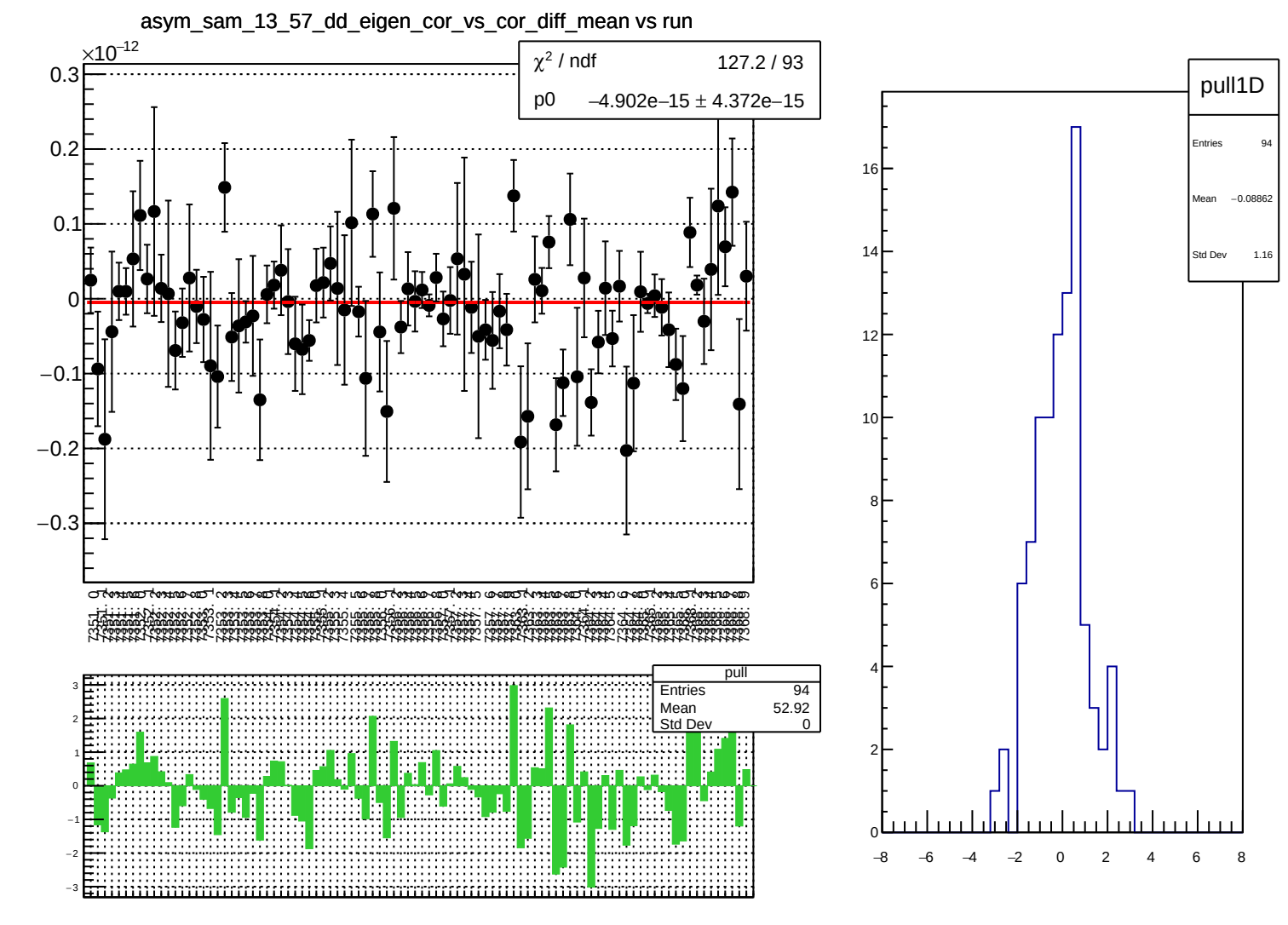

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.276e+04 / 93
p0 0.001525 ± 1.135e−06
0.002
0.0019
0.0018
0.0017
0.0016
0.0015
0.0014
0.0013

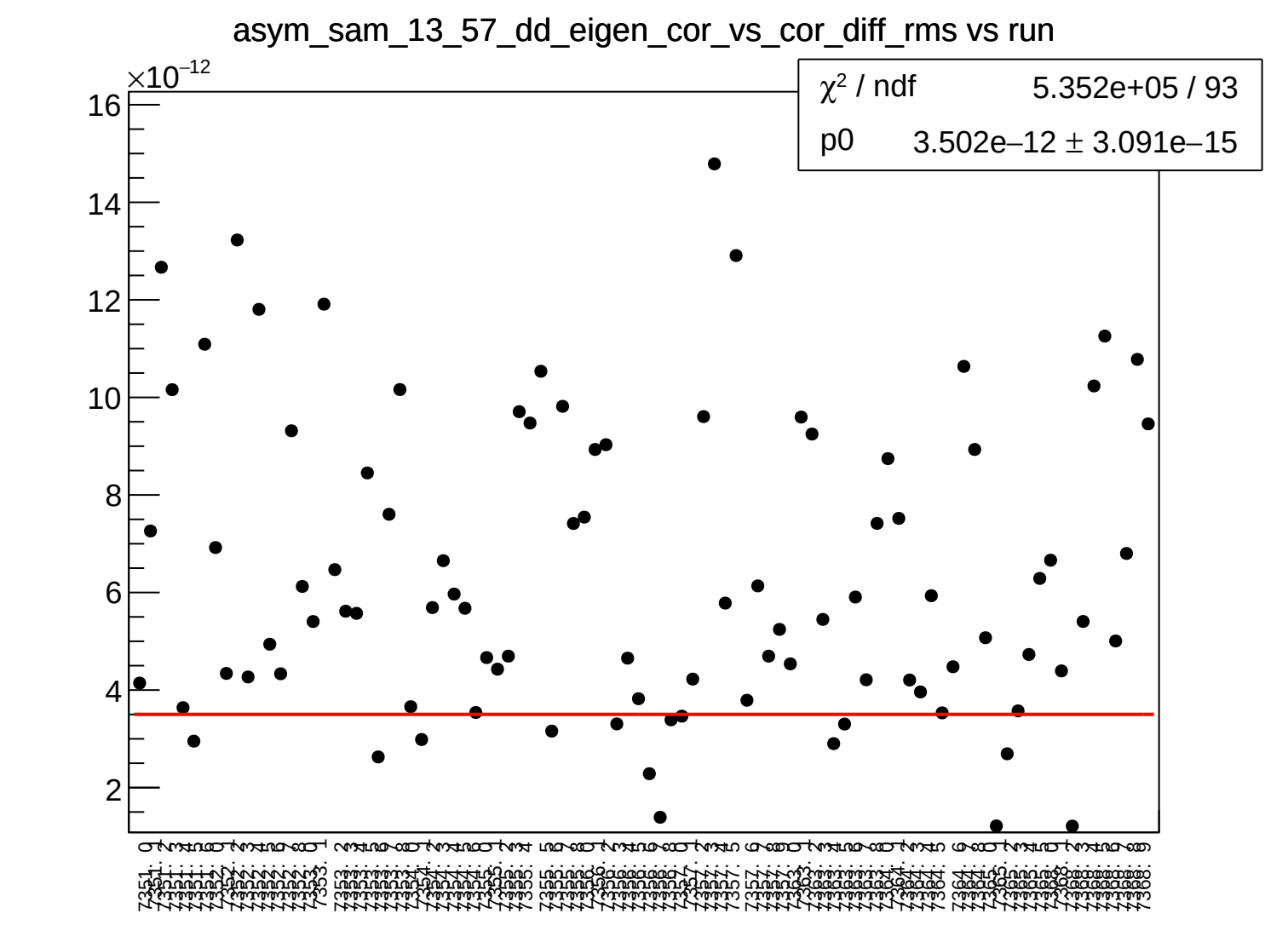

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 181.7 / 93
p0 −0.0205 ± 0.03043
pull
Entries 94
Mean −276.7
Std Dev 0
pull1D
Entries 94
Mean −0.009815
Std Dev 1.39

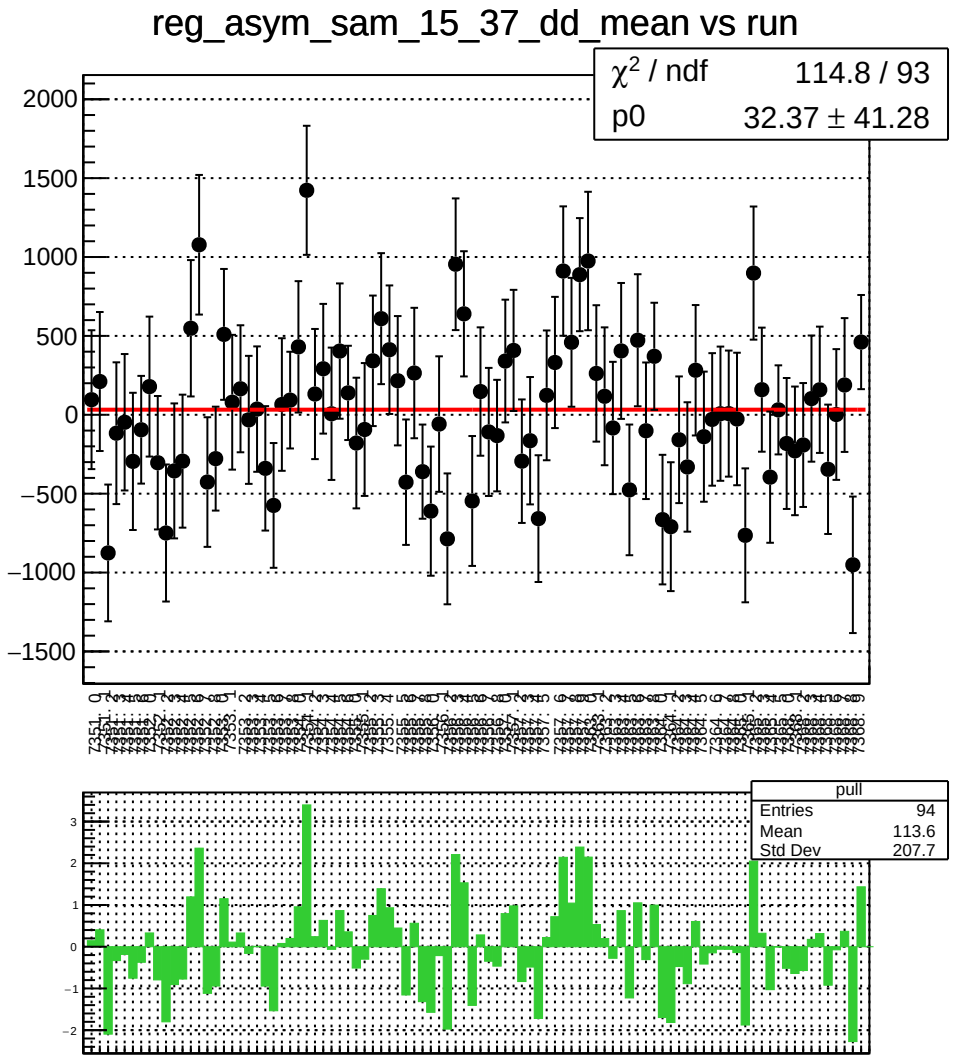

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.181e+04 / 93
p0 28.84 ± 0.02151
45
40
35
30
25

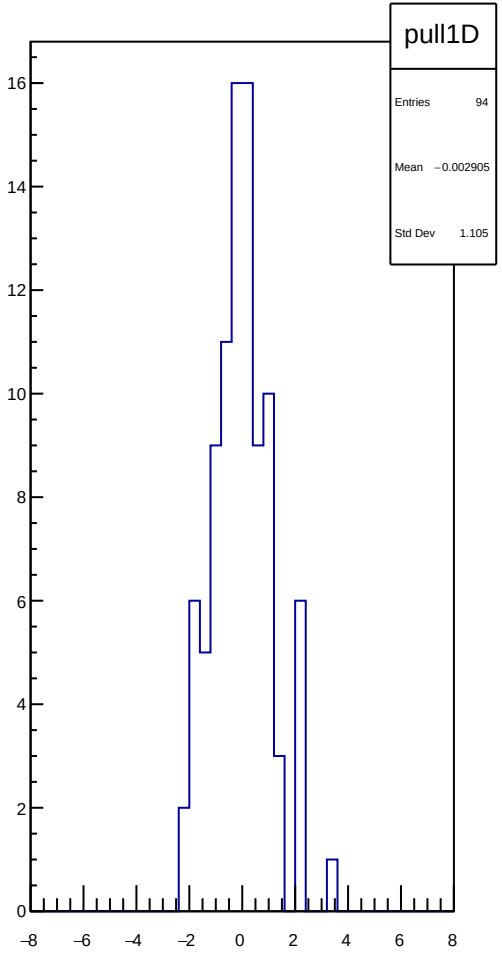

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 181.7 / 93
p0 −0.0205 ± 0.03043
pull
Entries 94
Mean −276.7
Std Dev 0
pull1D
Entries 94
Mean −0.009815
Std Dev 1.39

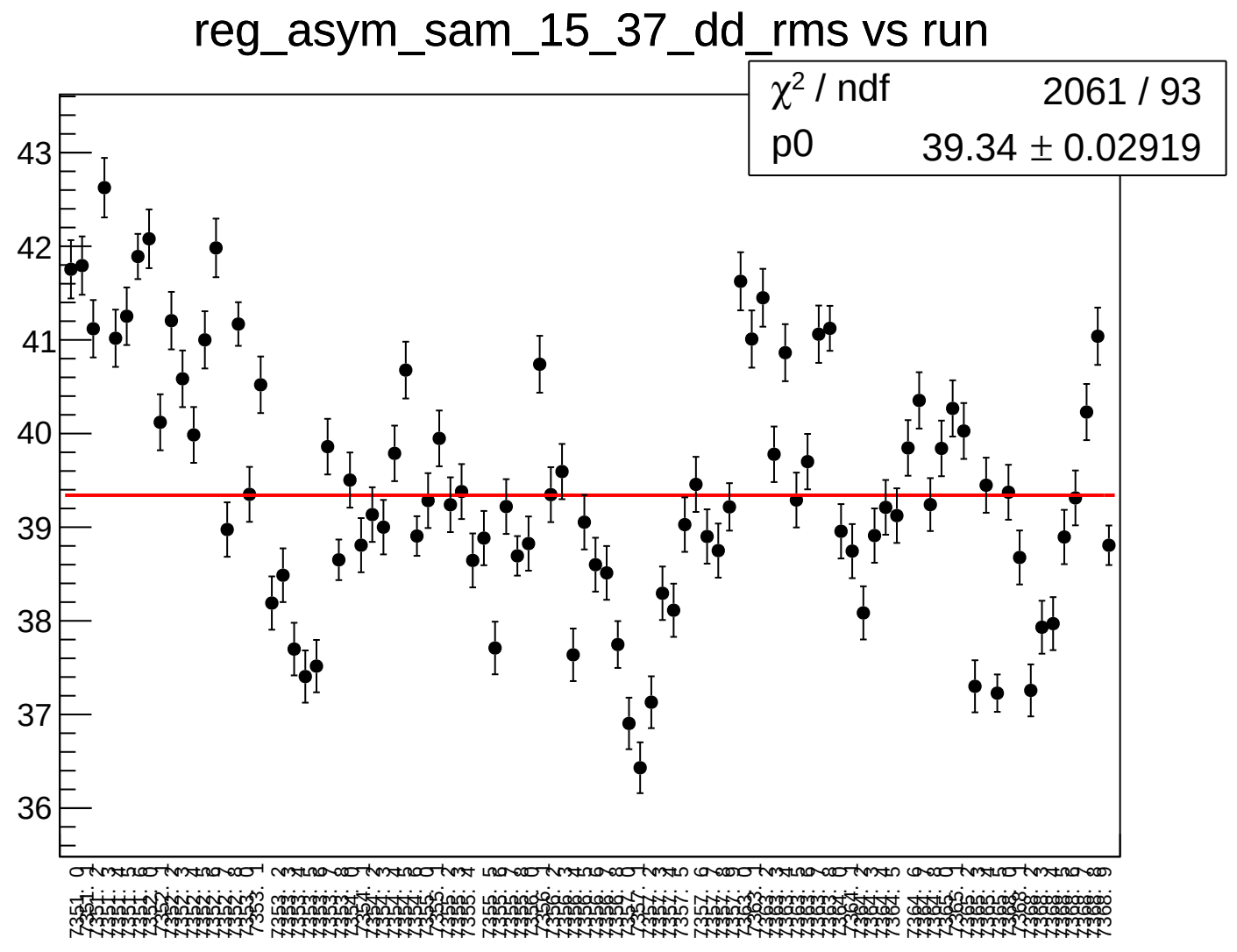

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.181e+04 / 93
p0 28.84 ± 0.02151
45
40
35
30
25

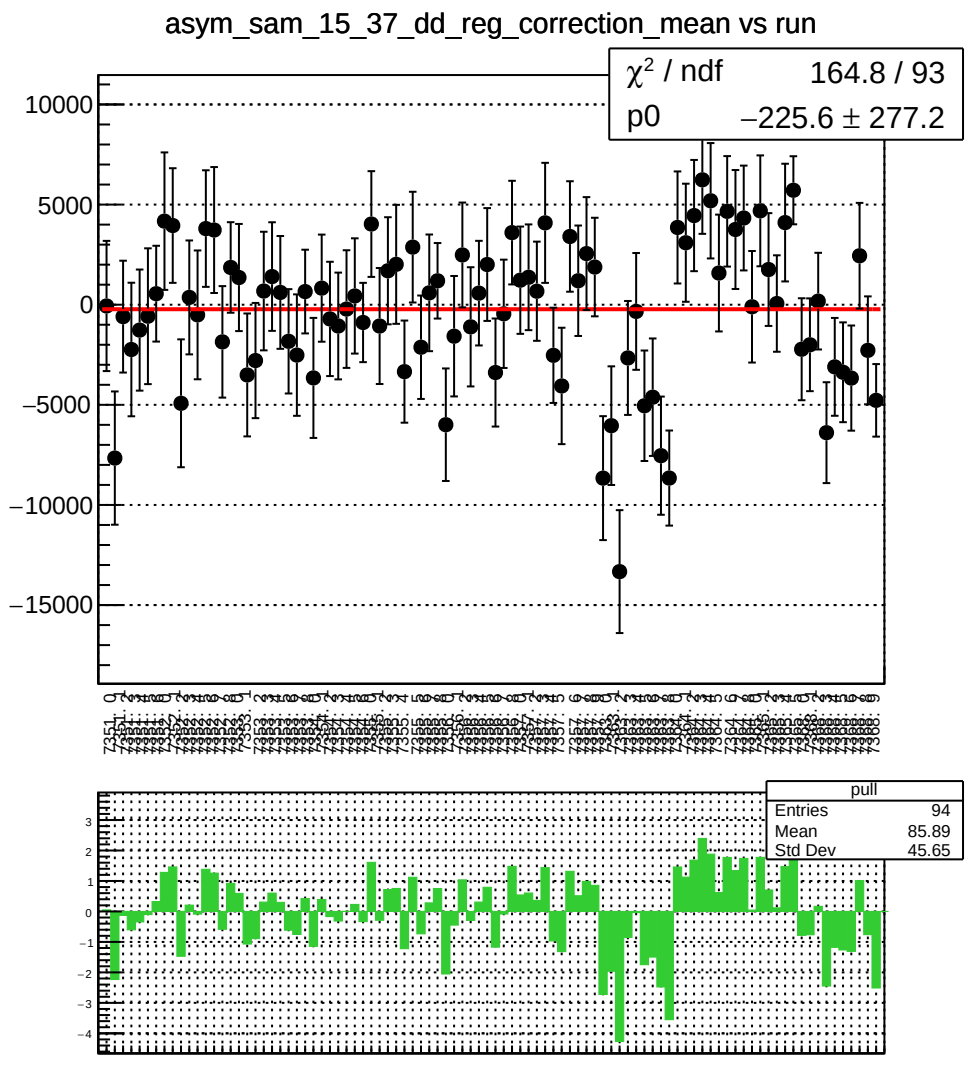

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 127.2 / 93
p0 −4.902e−15 ± 4.372e−15
pull
Entries 94
Mean 52.92
Std Dev 0
pull1D
Entries 94
Mean −0.08862
Std Dev 1.16

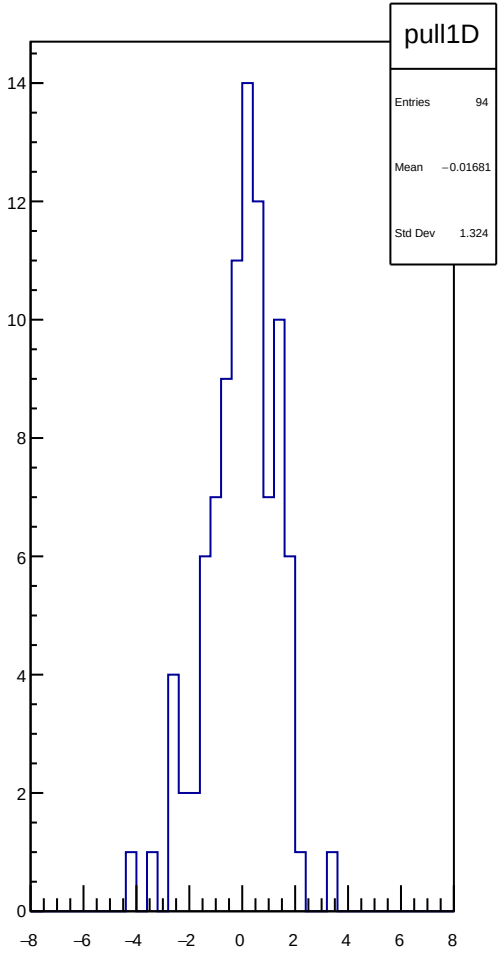

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.352e+05 / 93
p0 3.502e−12 ± 3.091e−15
16
14
12
10
8
6
4
2

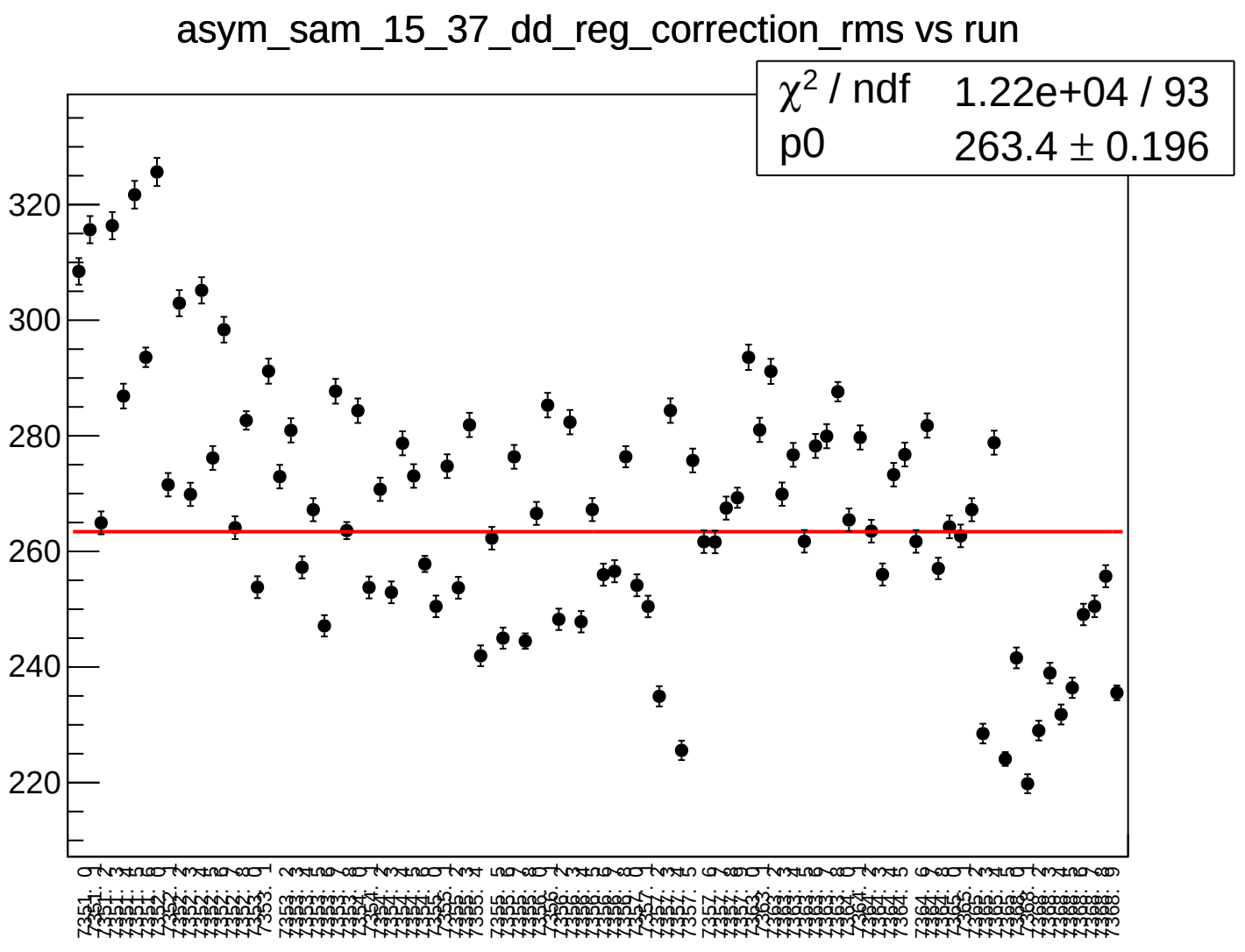

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 114.8 / 93
p0 32.37 ± 41.28
pull
Entries 94
Mean 113.6
Std Dev 207.7

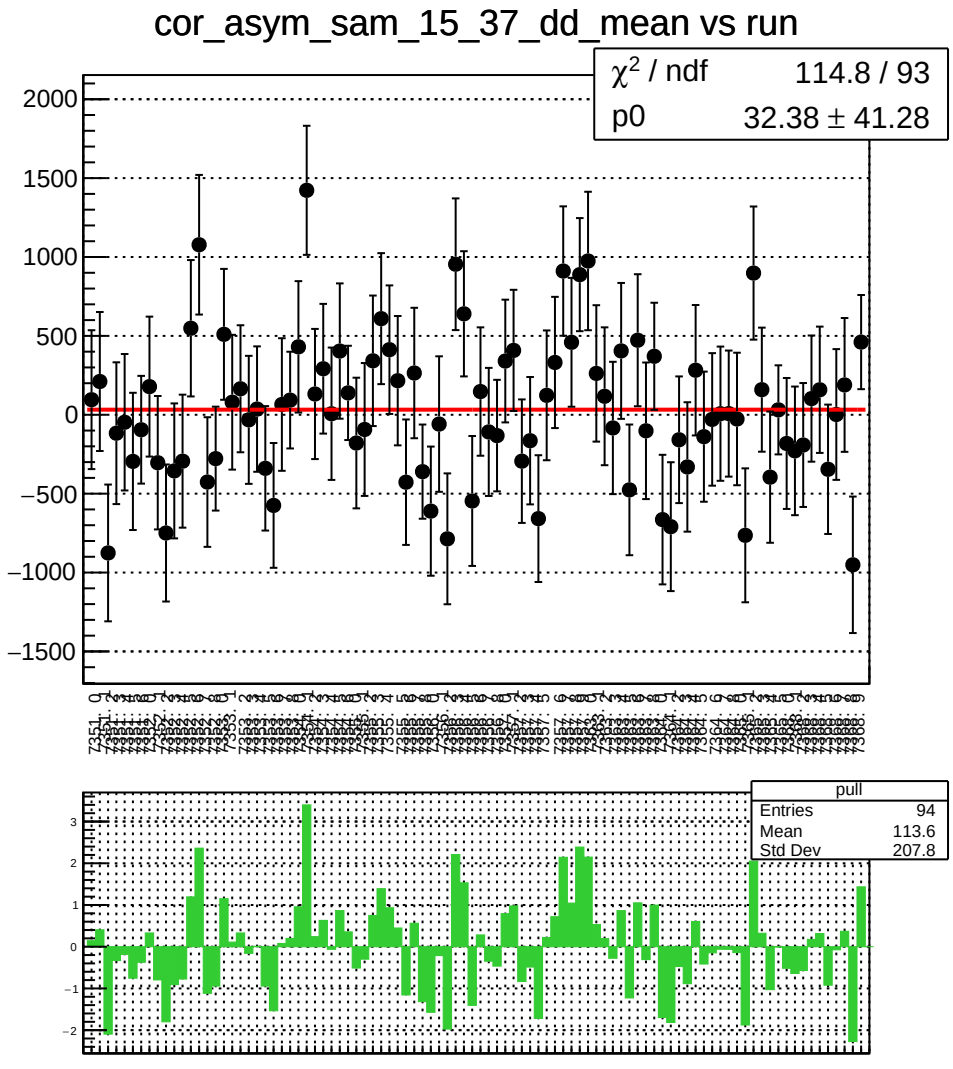

pull1D
Entries 94
Mean −0.002905
Std Dev 1.105

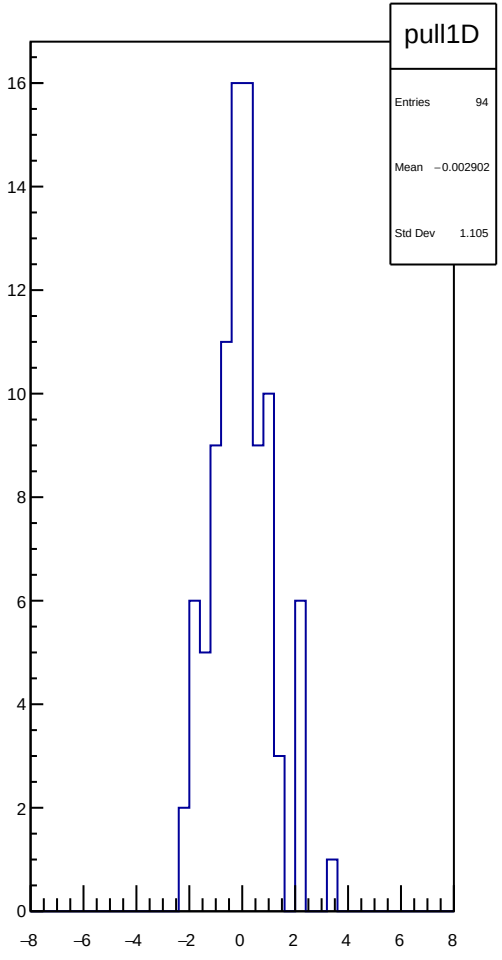

reg_asym_sam_15_37_dd_rms vs run
χ² / ndf 2061 / 93
p0 39.34 ± 0.02919
43
42
41
40
39
38
37
36

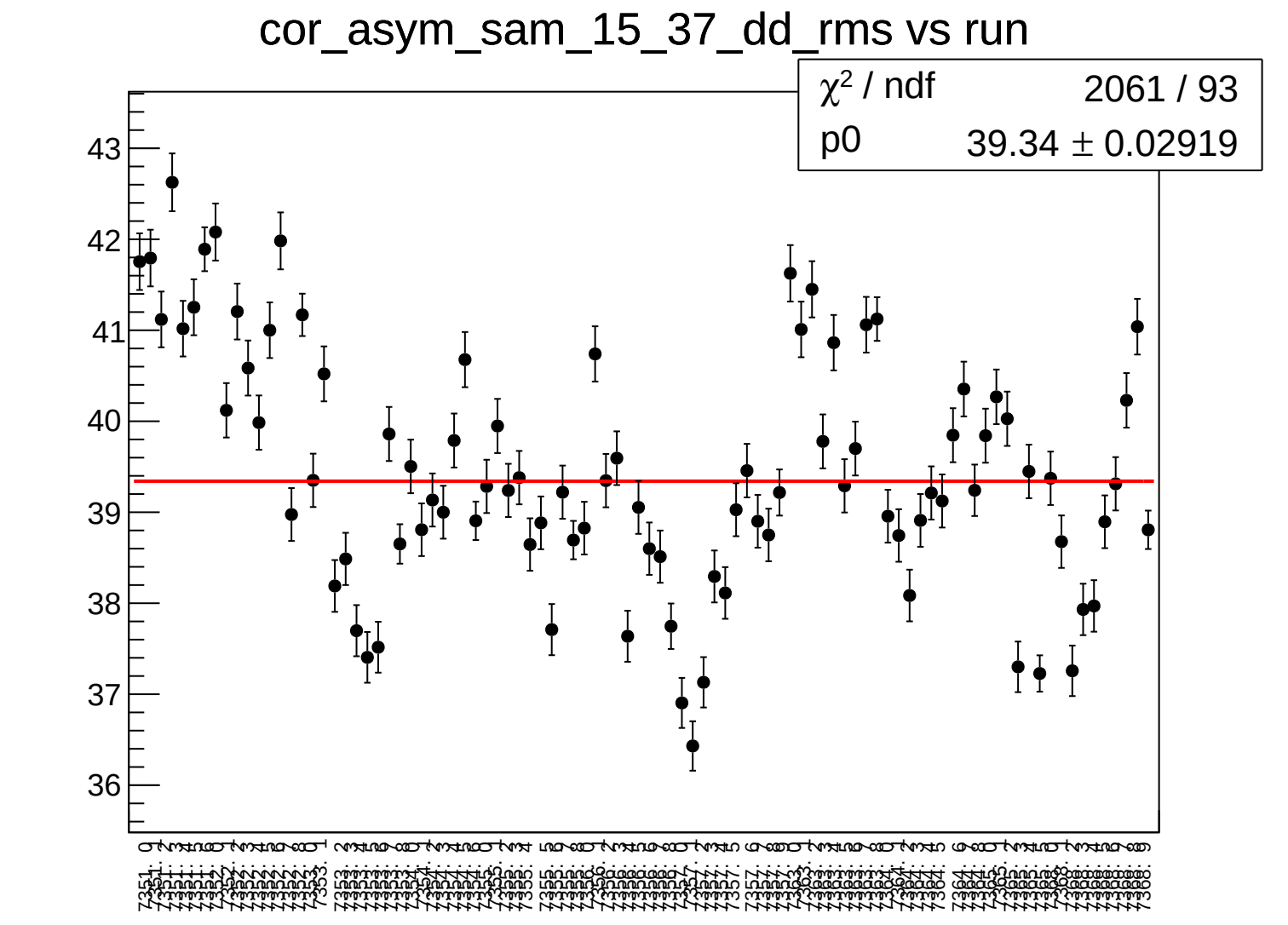

asym_sam_15_37_dd_reg_correction_mean vs run
χ² / ndf 164.8 / 93
p0 −225.6 ± 277.2
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean 85.89
Std Dev 45.65
3
2
1
0
−1
−2
−3
−4

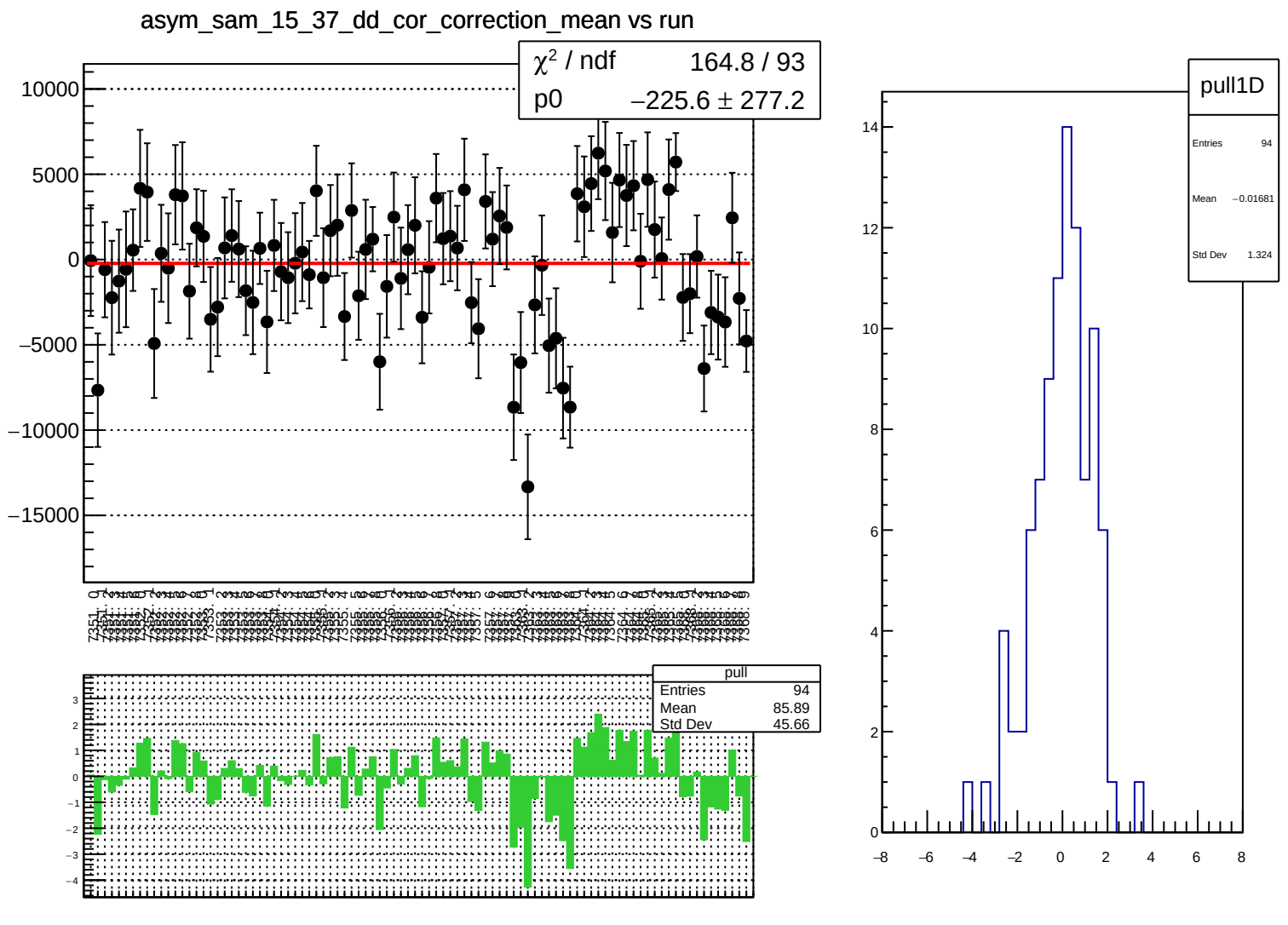

pull1D
Entries 94
Mean −0.01681
Std Dev 1.324
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

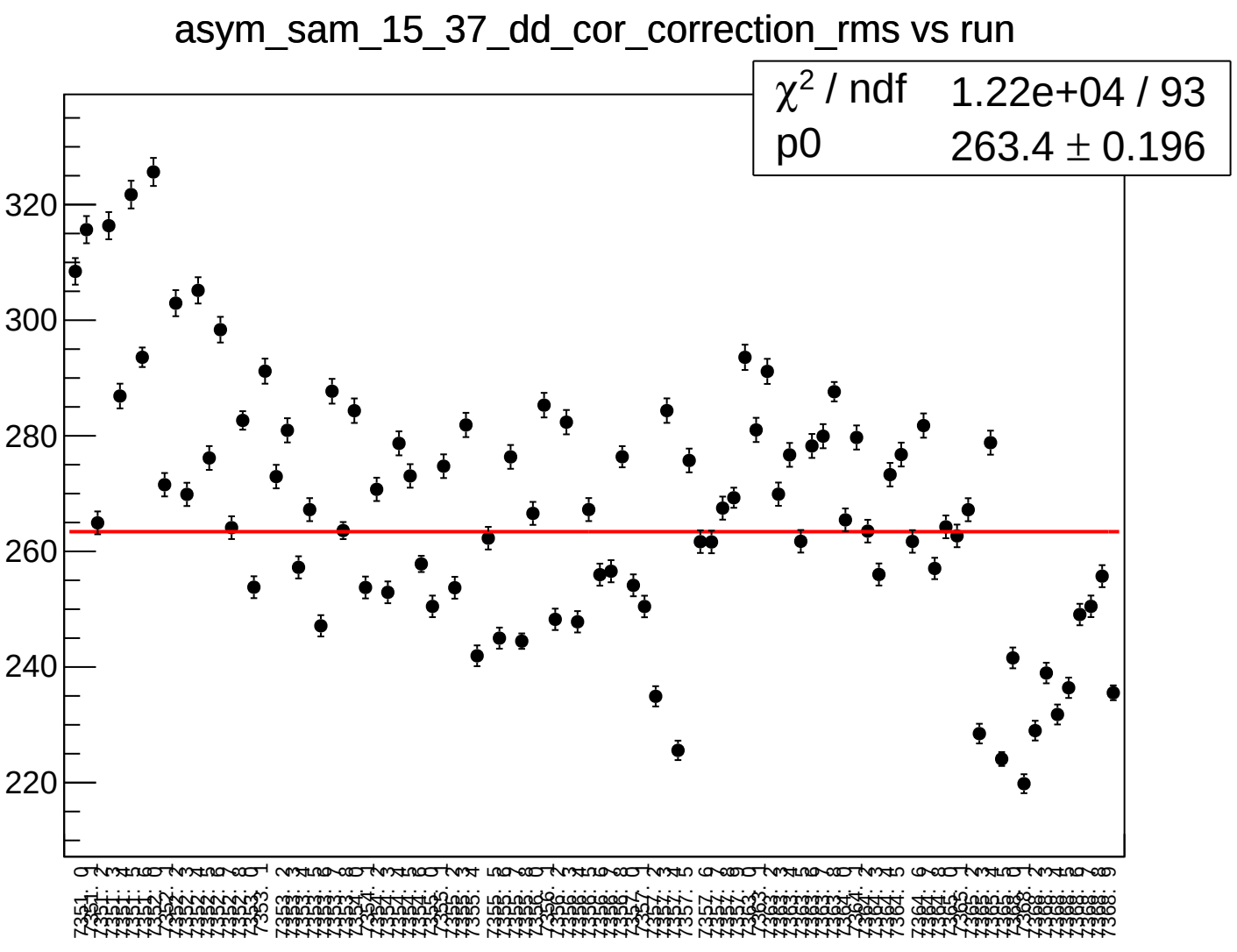

asym_sam_15_37_dd_reg_correction_rms vs run
χ² / ndf 1.22e+04 / 93
p0 263.4 ± 0.196
320
300
280
260
240
220

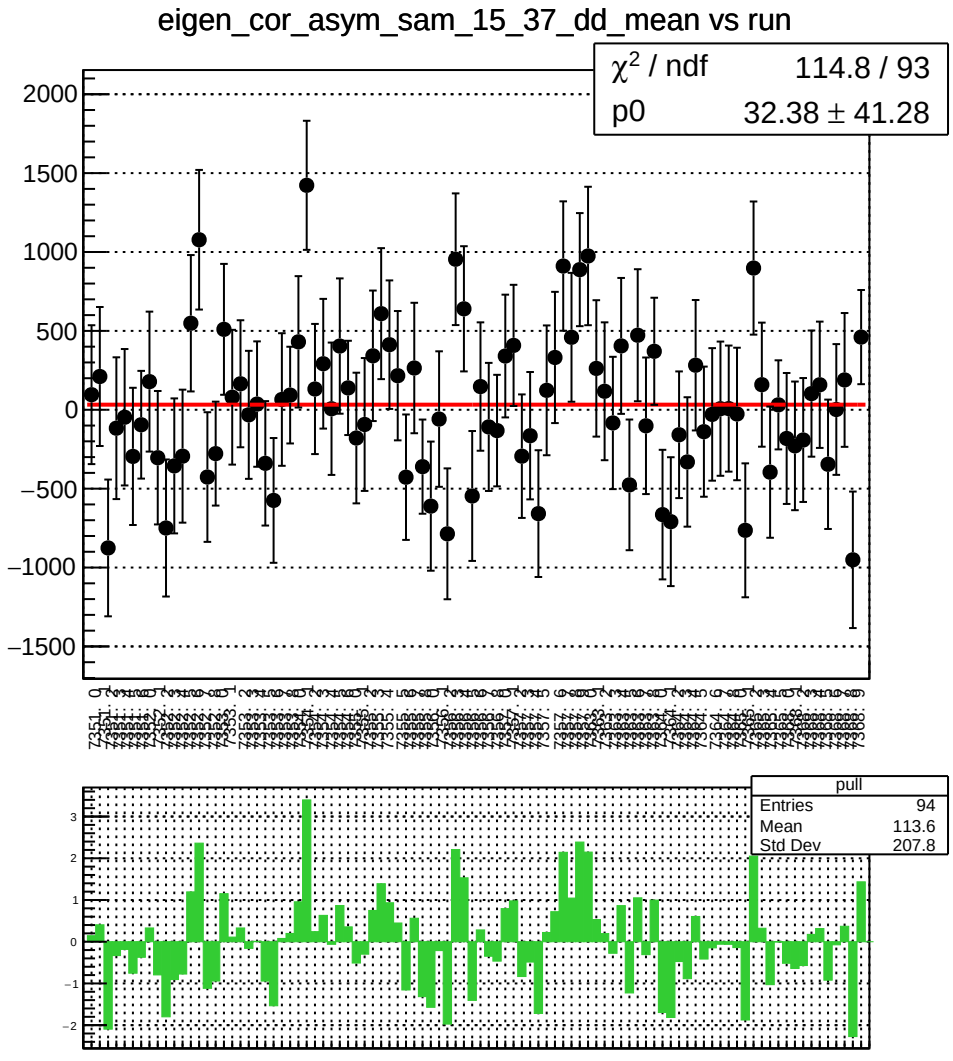

cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 114.8 / 93
p0 32.38 ± 41.28
pull
Entries 94
Mean 113.6
Std Dev 207.8

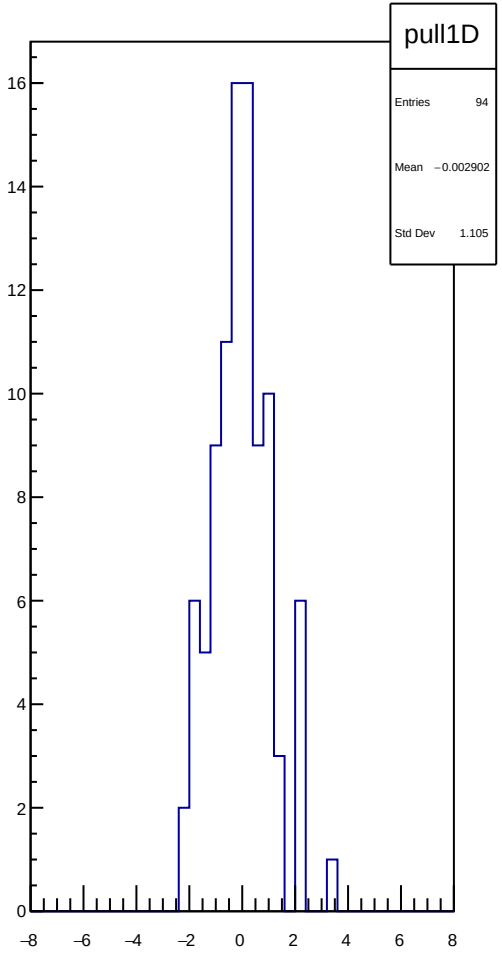

pull1D
Entries 94
Mean −0.002902
Std Dev 1.105

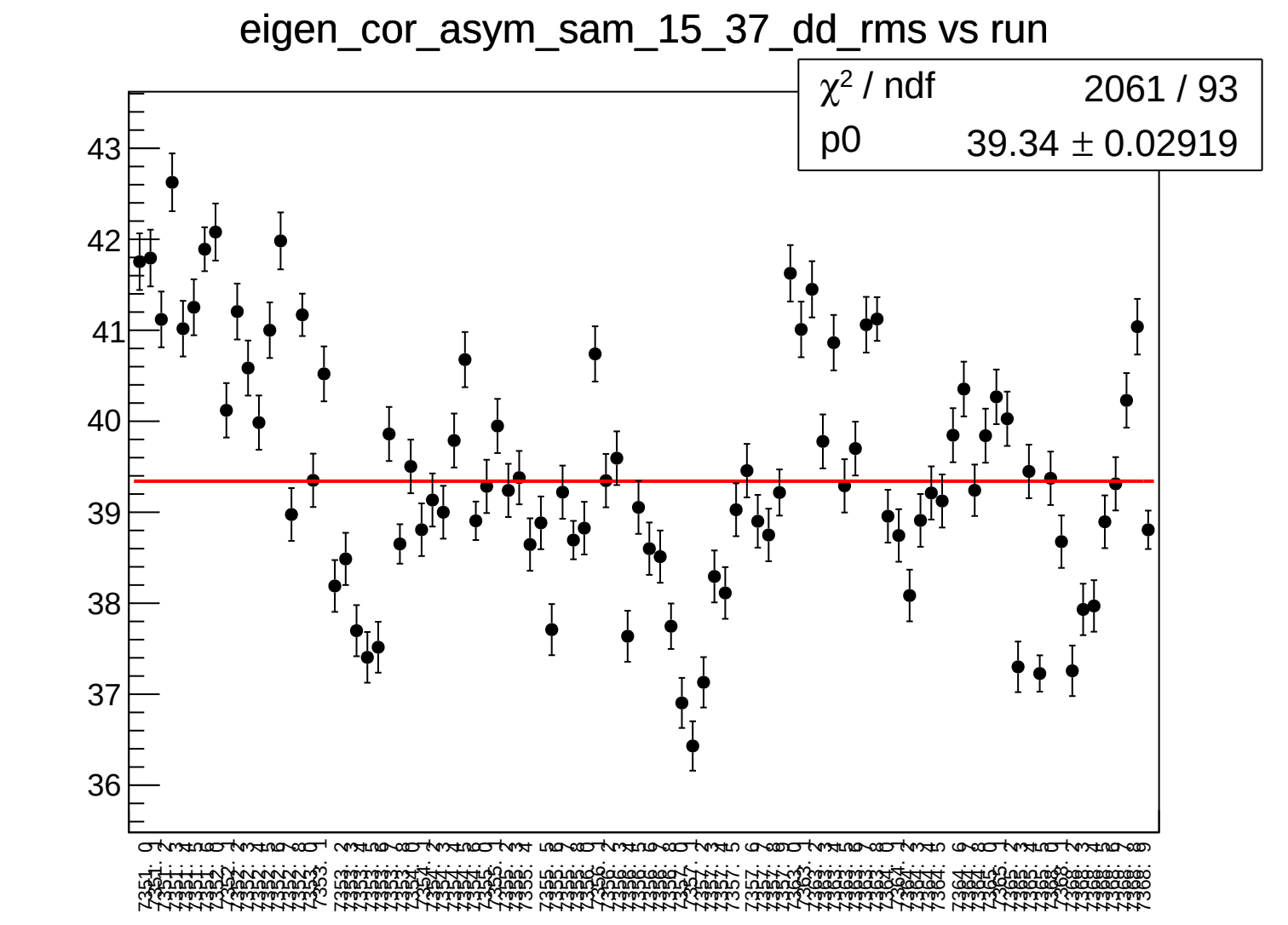

cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 2061 / 93
p0 39.34 ± 0.02919
43
42
41
40
39
38
37
36

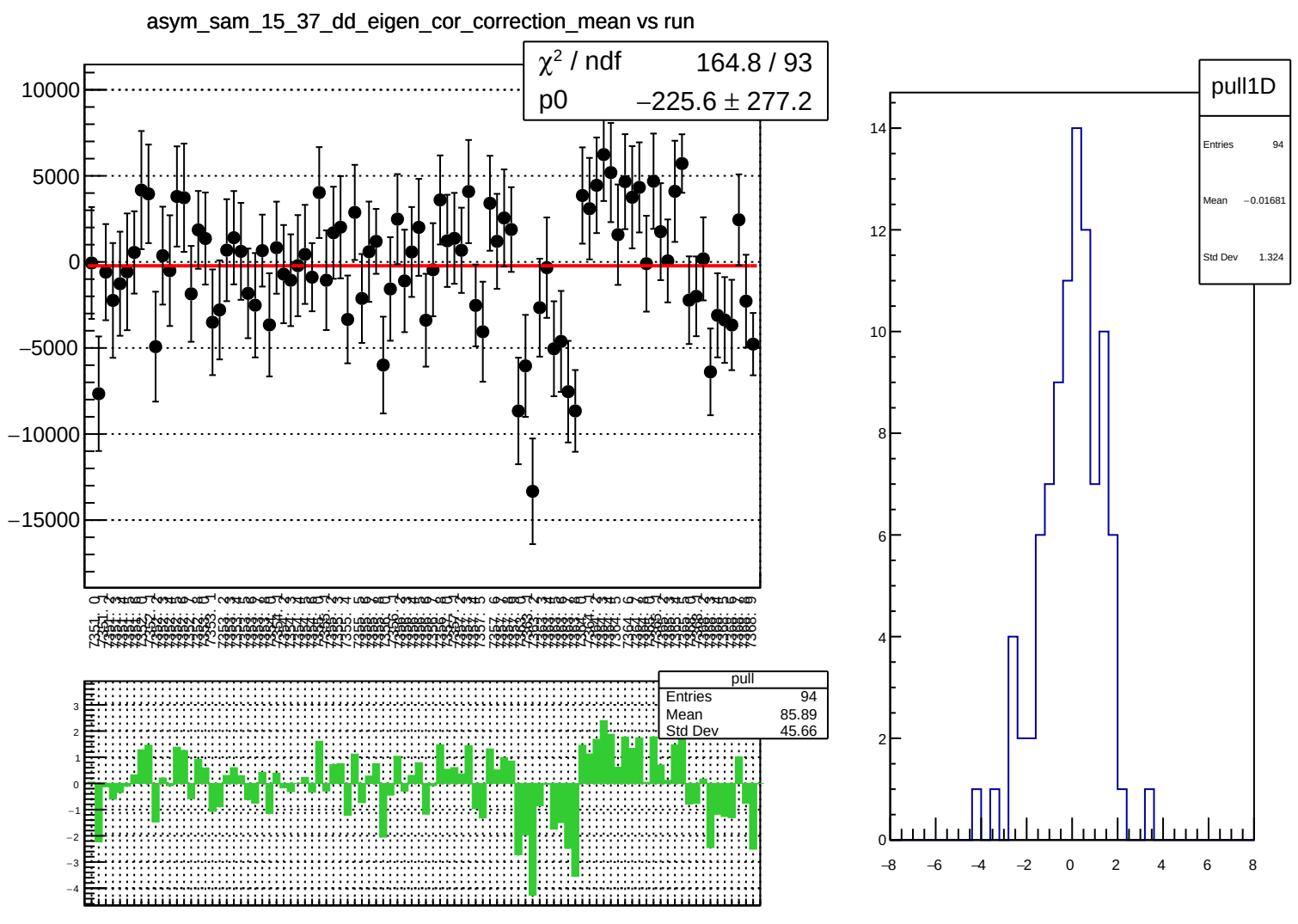

asym_sam_15_37_dd_cor_correction_mean vs run
χ² / ndf 164.8 / 93
p0 −225.6 ± 277.2
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean 85.89
Std Dev 45.66
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 94
Mean −0.01681
Std Dev 1.324
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

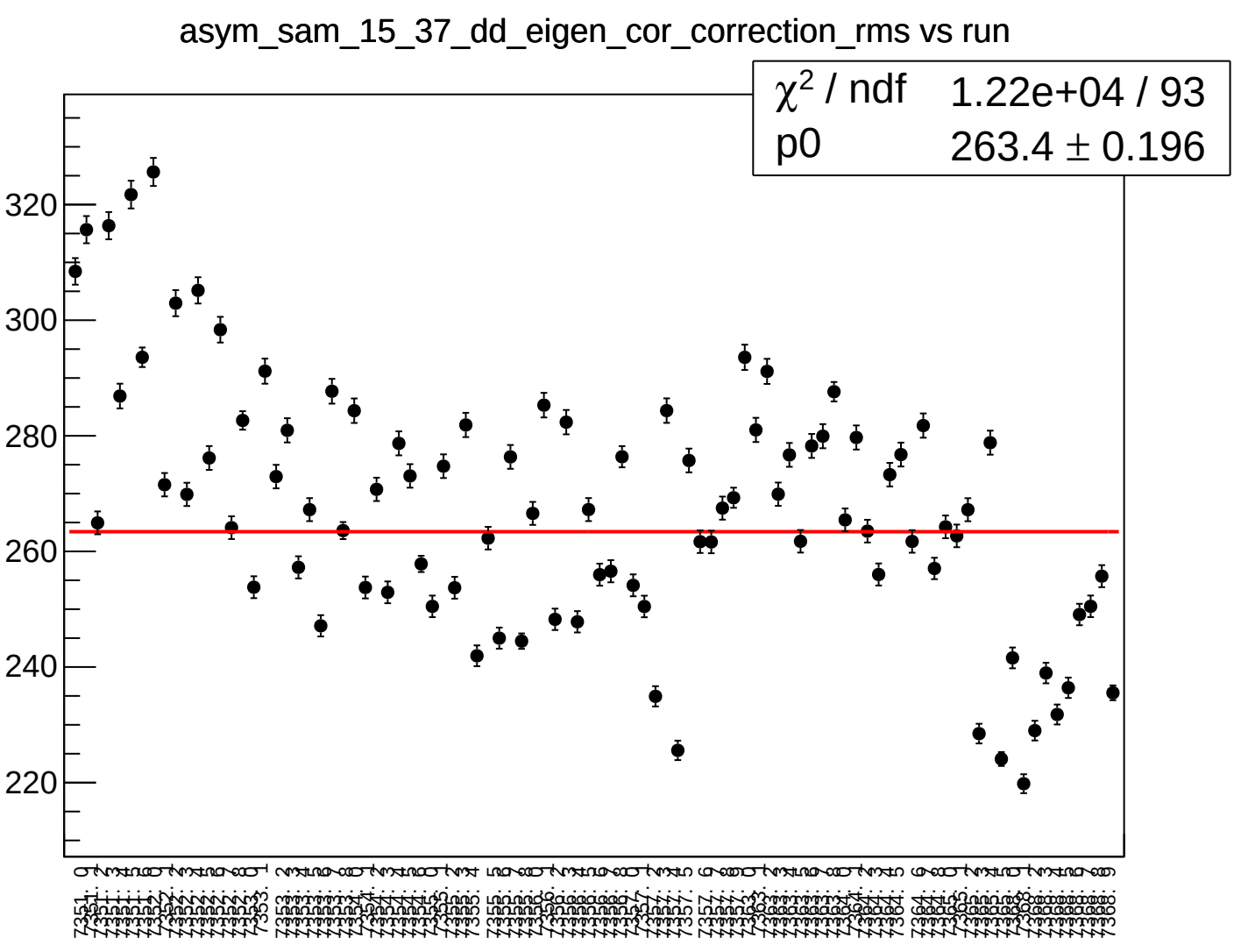

asym_sam_15_37_dd_cor_correction_rms vs run
χ² / ndf 1.22e+04 / 93
p0 263.4 ± 0.196
320
300
280
260
240
220

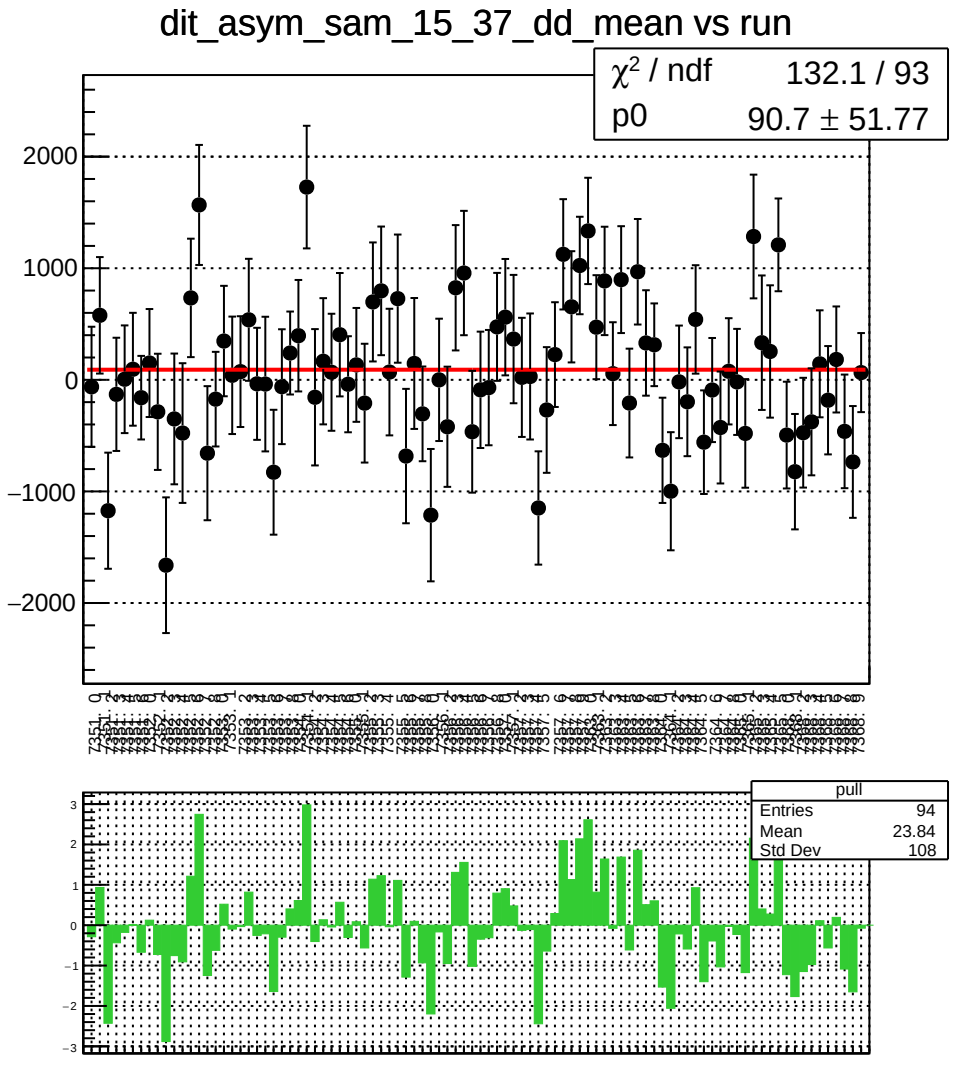

eigen_cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 114.8 / 93
p0 32.38 ± 41.28
pull
Entries 94
Mean 113.6
Std Dev 207.8

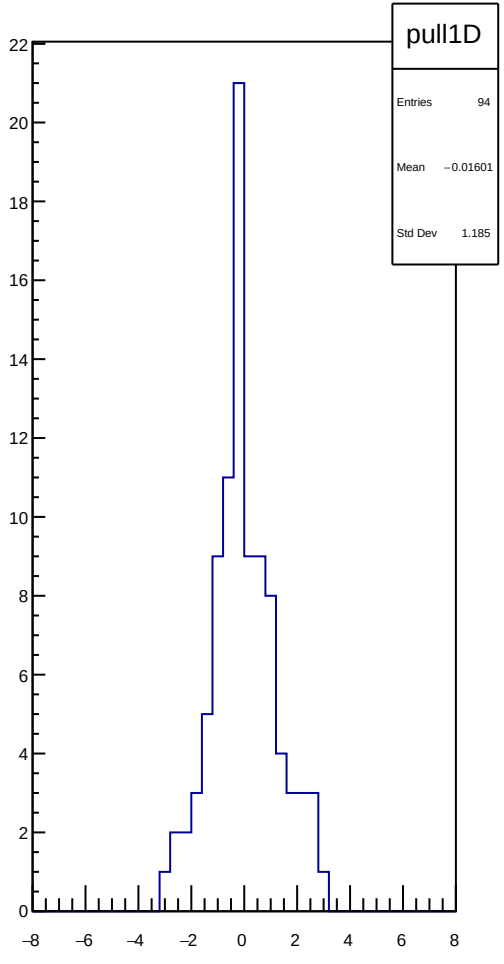

pull1D
Entries 94
Mean −0.002902
Std Dev 1.105

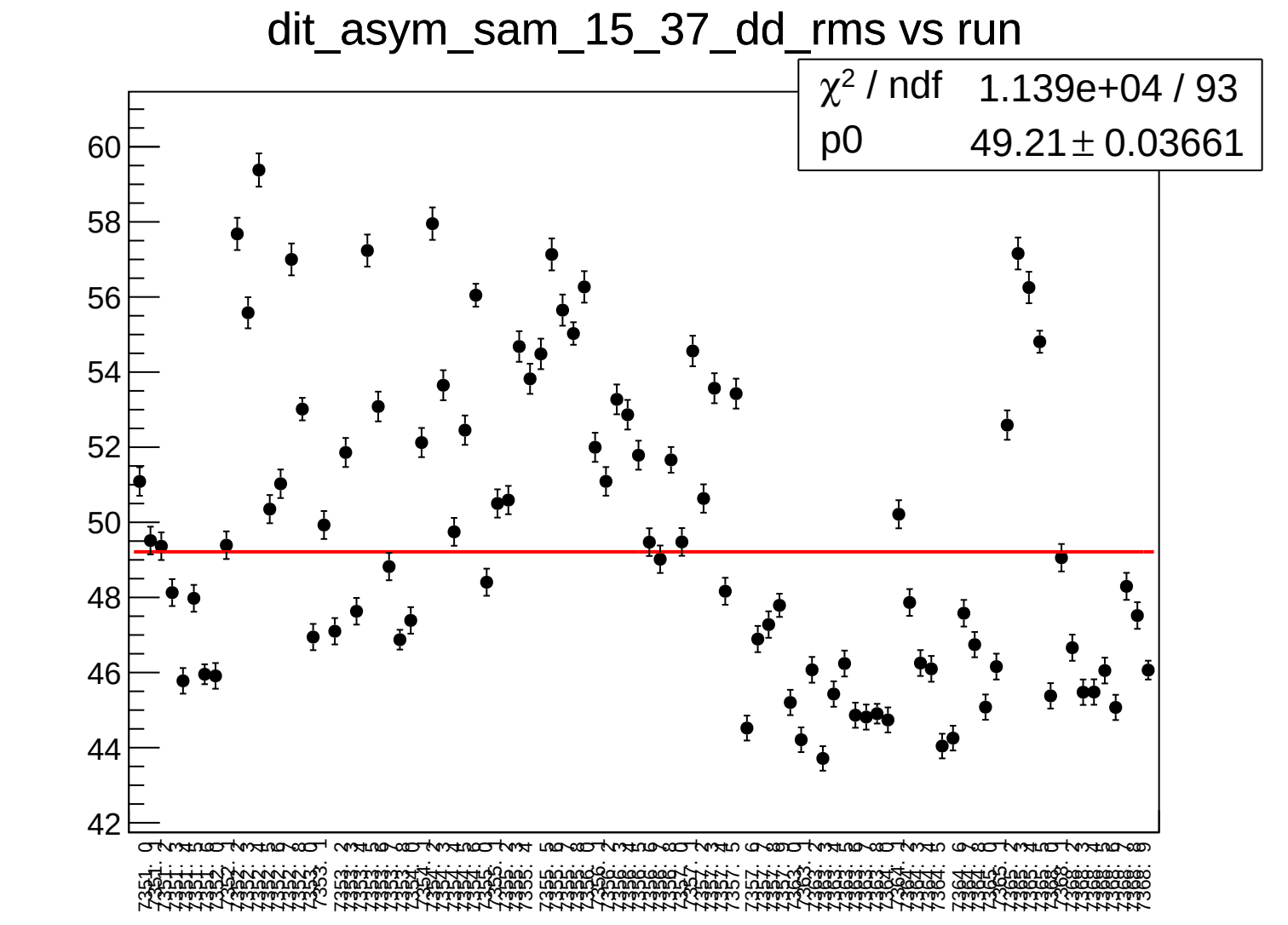

eigen_cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 2061 / 93
p0 39.34 ± 0.02919
43
42
41
40
39
38
37
36

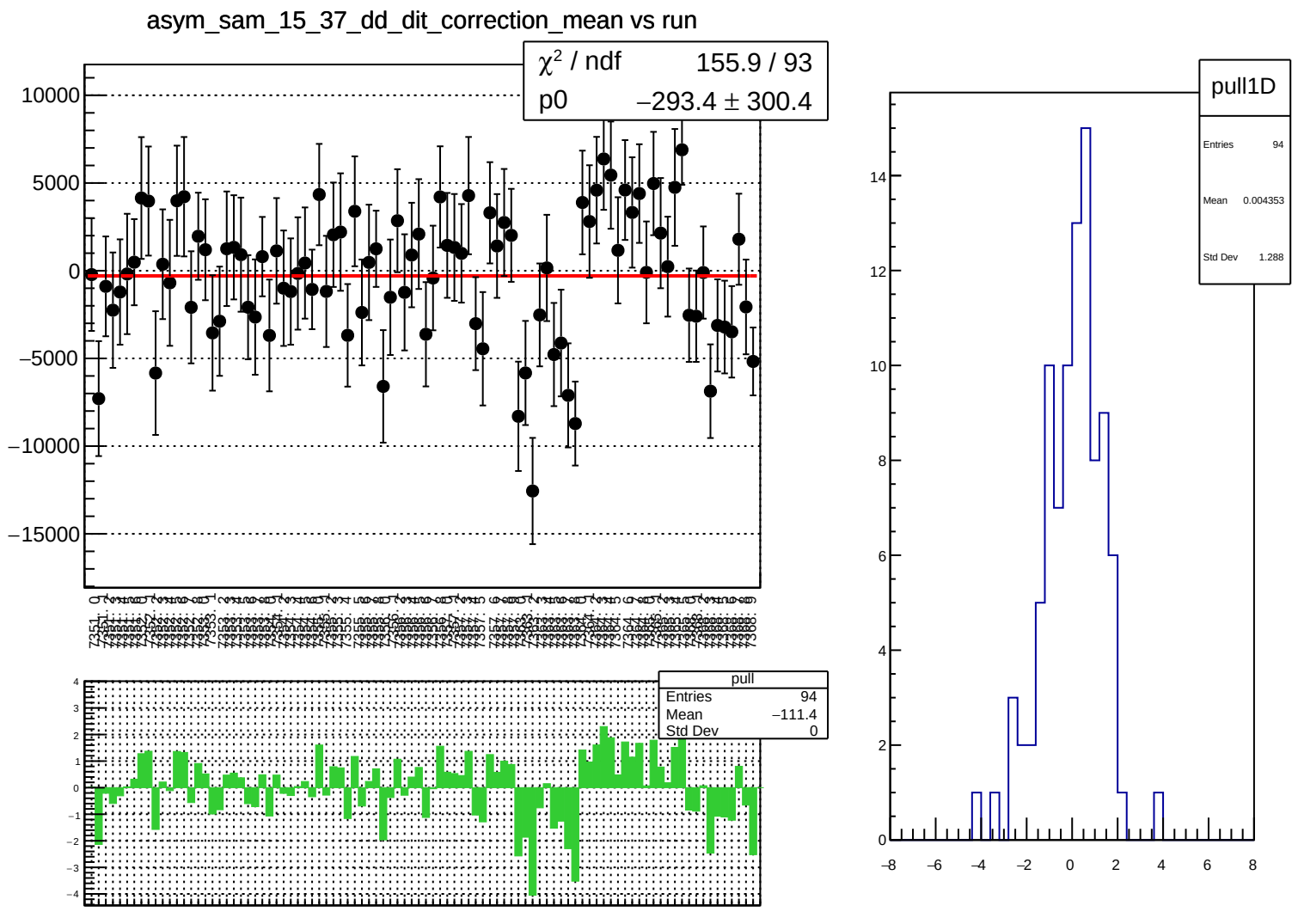

asym_sam_15_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 164.8 / 93
p0 −225.6 ± 277.2
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean 85.89
Std Dev 45.66
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 94
Mean −0.01681
Std Dev 1.324
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

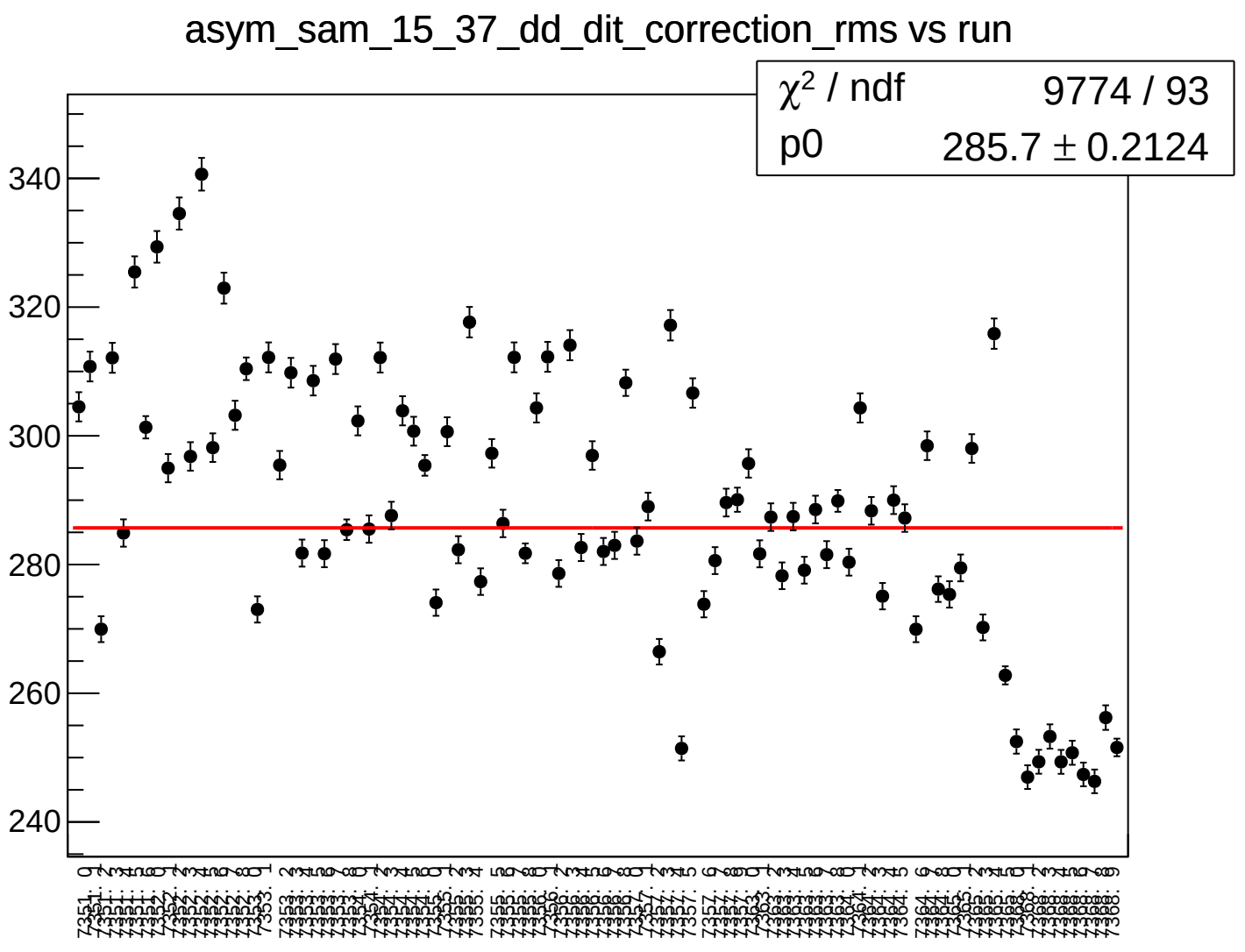

asym_sam_15_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.22e+04 / 93
p0 263.4 ± 0.196
320
300
280
260
240
220

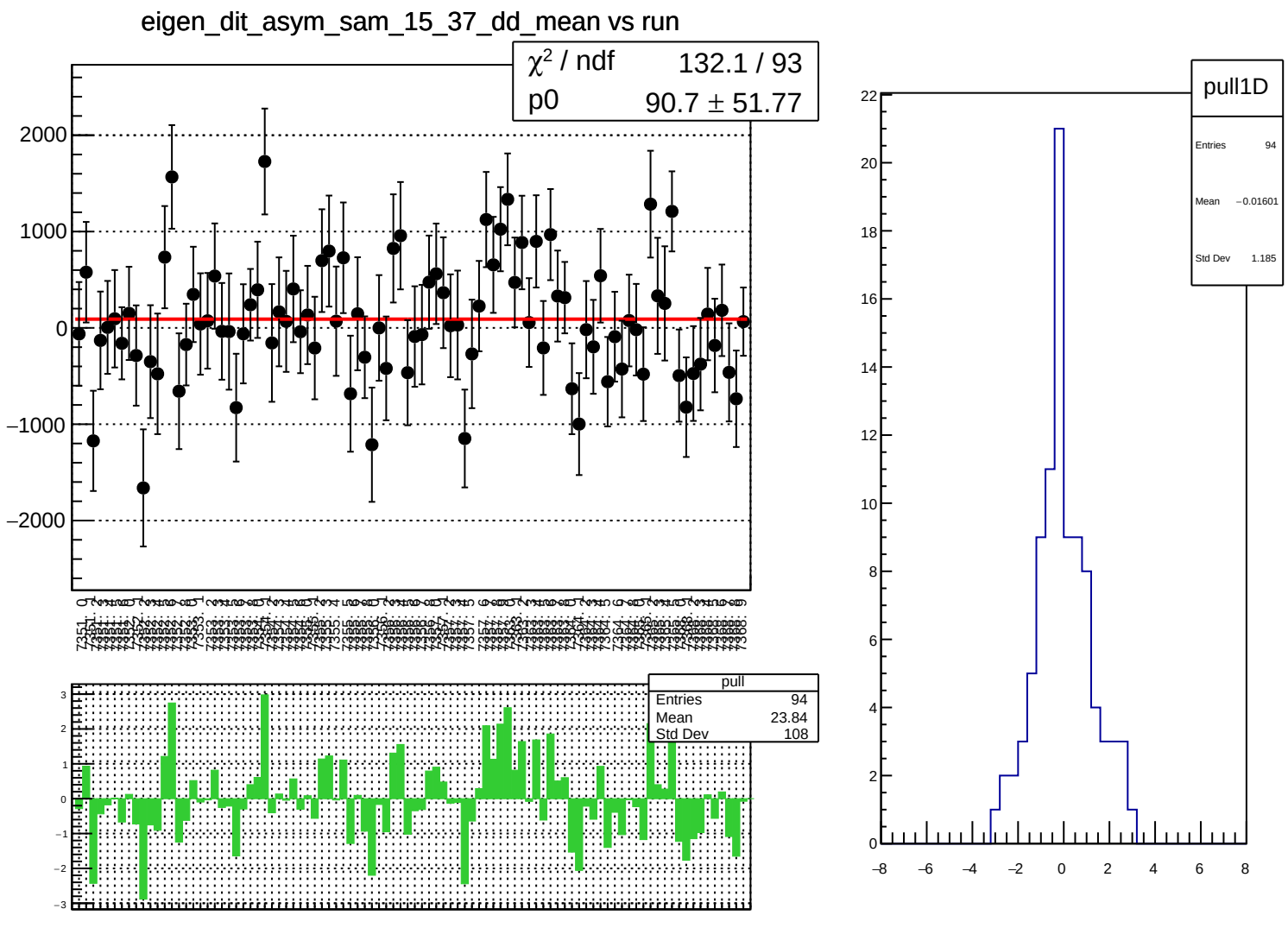

dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 132.1 / 93
p0 90.7 ± 51.77
2000
1000
0
−1000
−2000
pull
Entries 94
Mean 23.84
Std Dev 108
3
2
1
0
−1
−2
−3

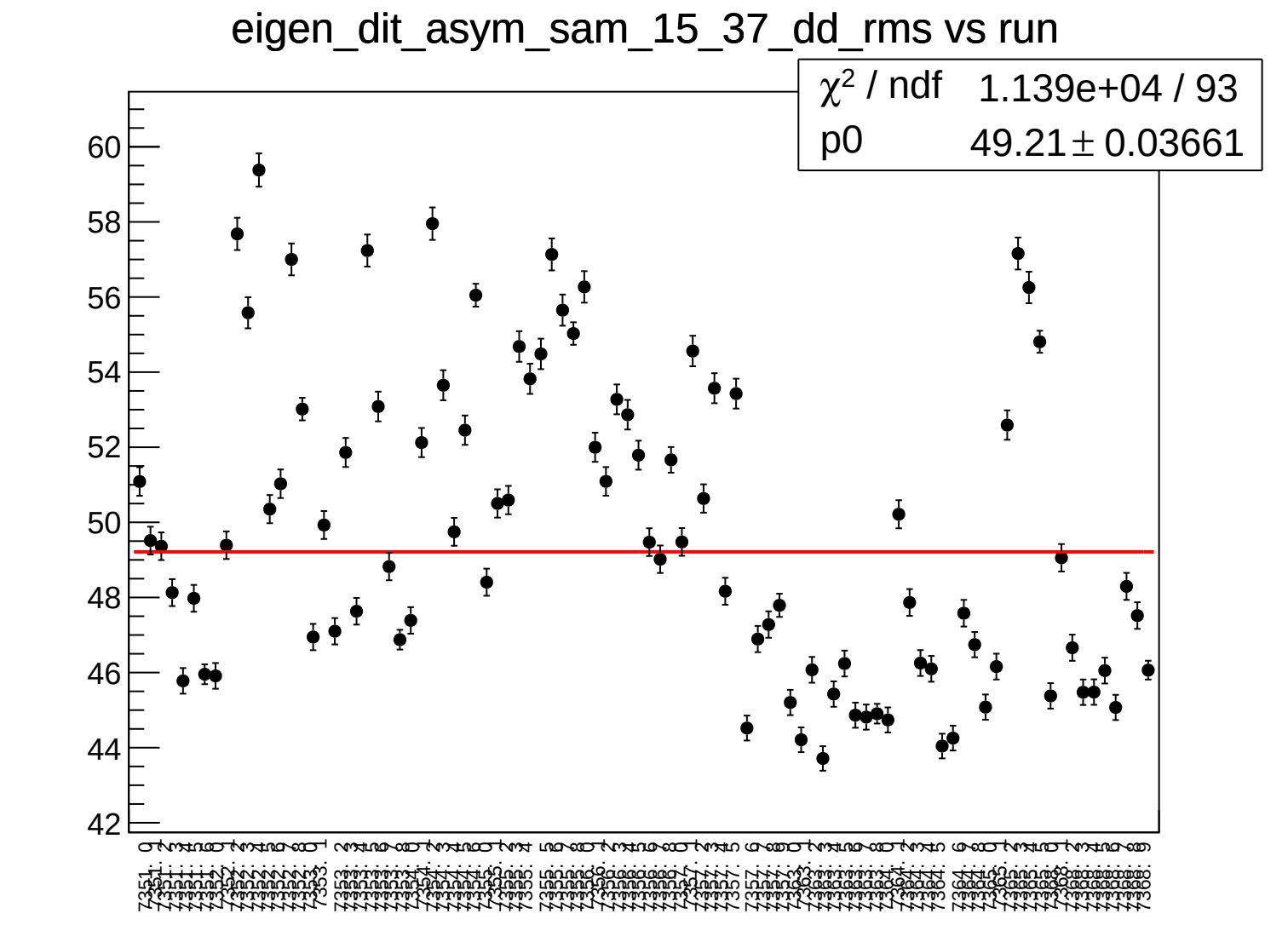

pull1D
Entries 94
Mean −0.01601
Std Dev 1.185
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

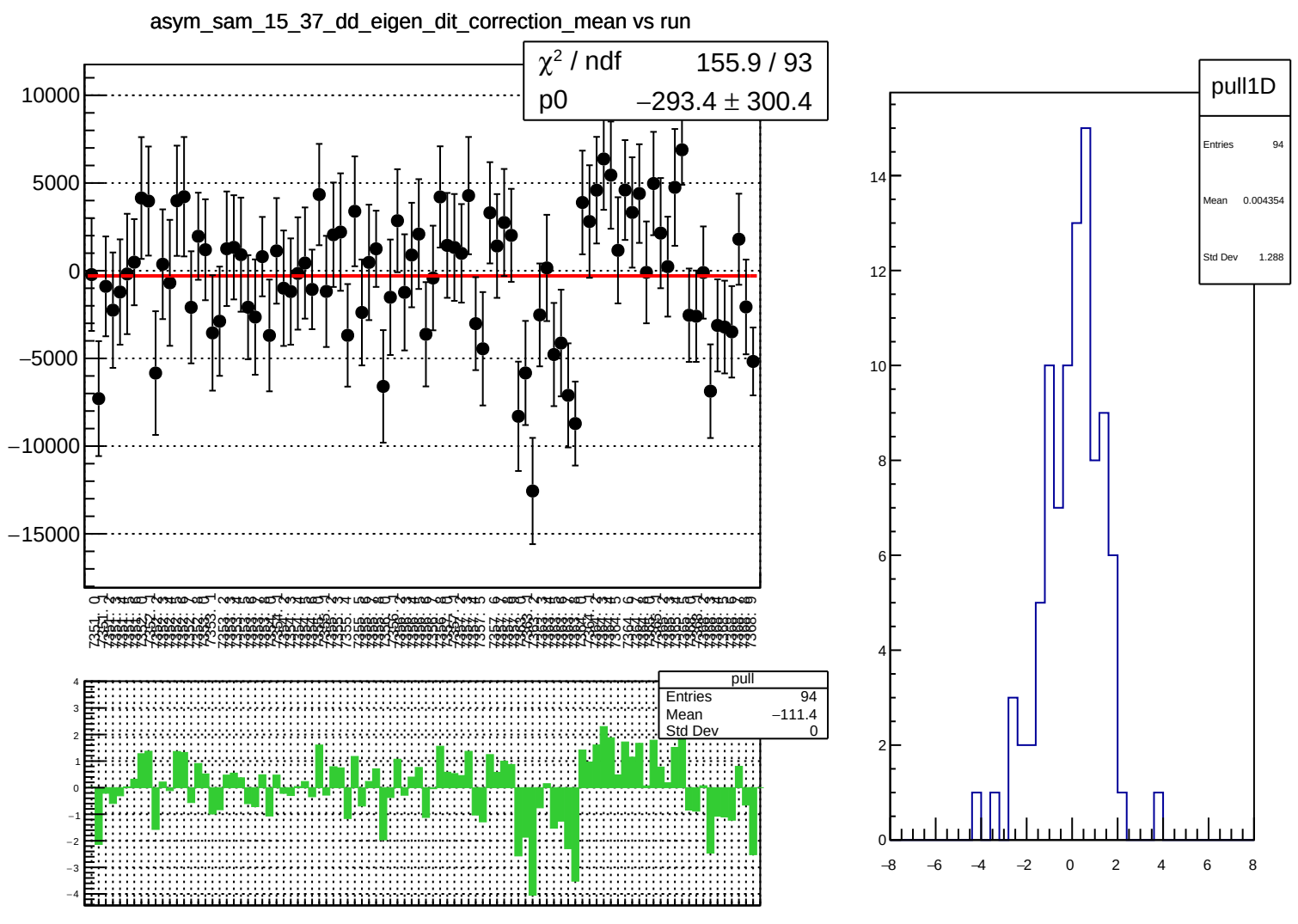

dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 1.139e+04 / 93
p0 49.21 ± 0.03661
60
58
56
54
52
50
48
46
44
42

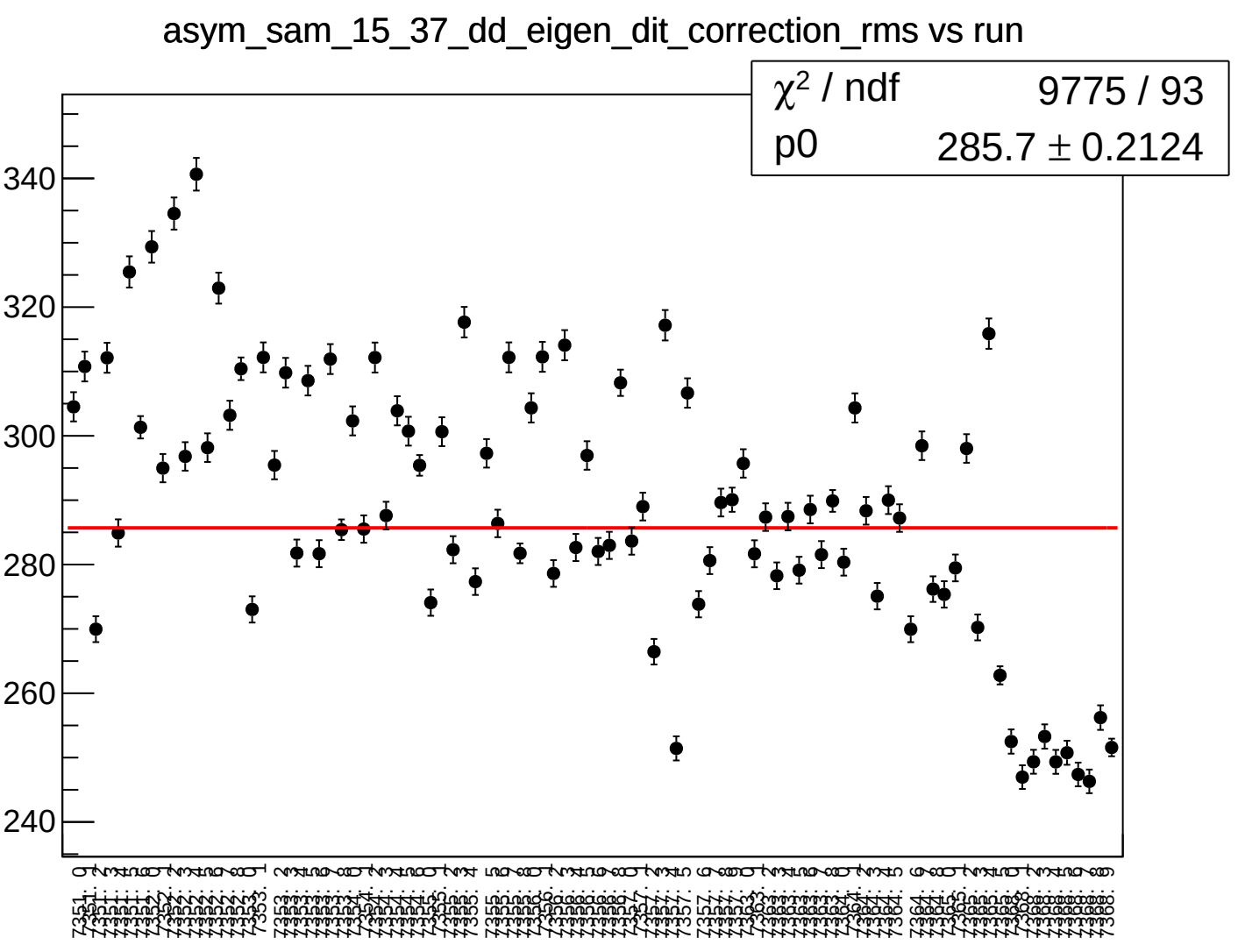

asym_sam_15_37_dd_dit_correction_mean vs run
χ² / ndf 155.9 / 93
p0 −293.4 ± 300.4
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean −111.4
Std Dev 0
pull1D
Entries 94
Mean 0.004353
Std Dev 1.288

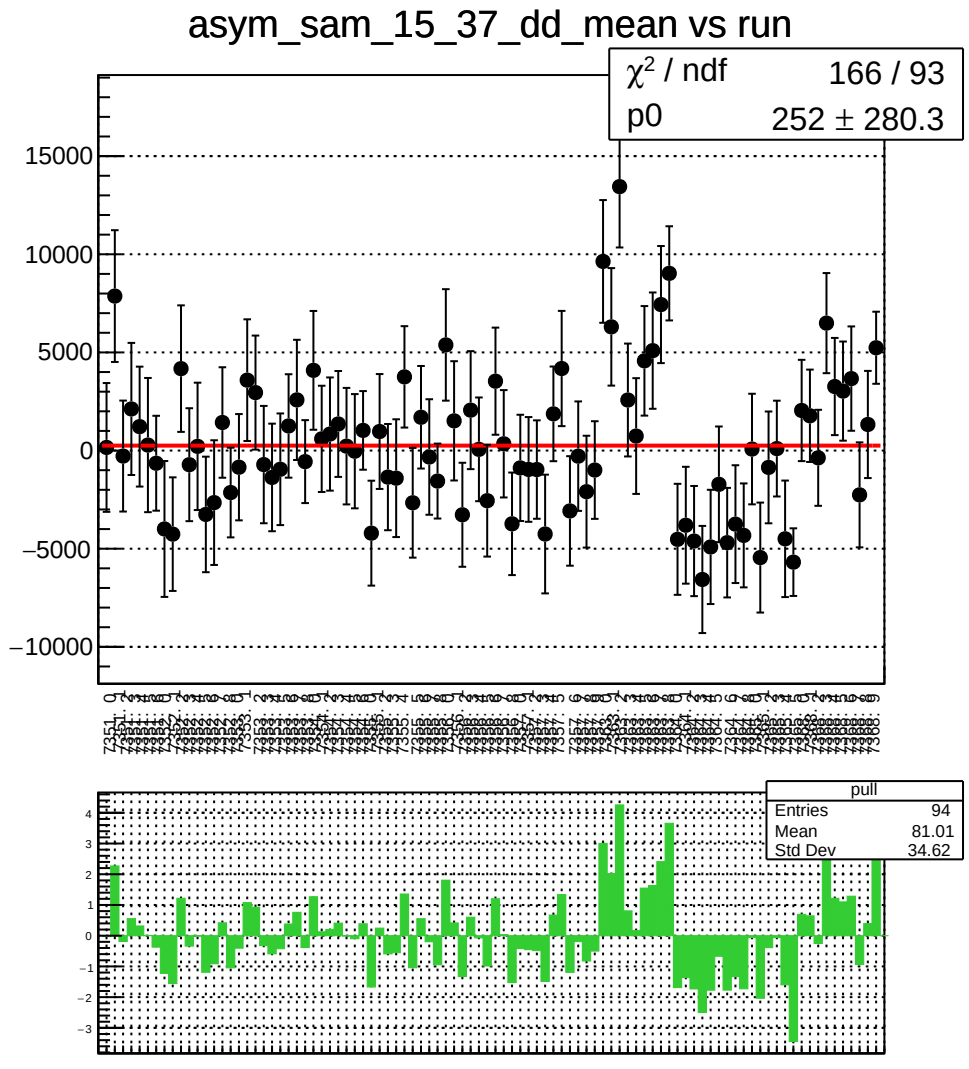

asym_sam_15_37_dd_dit_correction_rms vs run
χ² / ndf 9774 / 93
p0 285.7 ± 0.2124
340
320
300
280
260
240

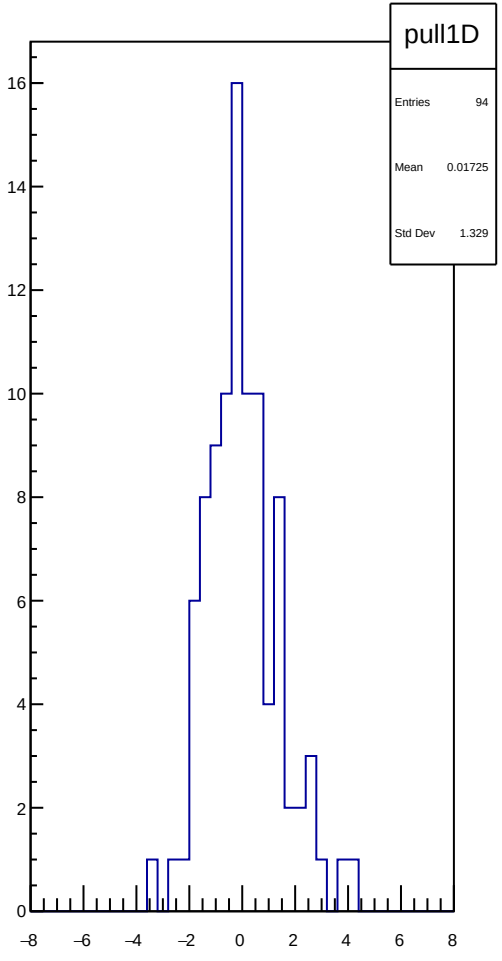

eigen_dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 132.1 / 93
p0 90.7 ± 51.77
2000
1000
0
−1000
−2000
pull
Entries 94
Mean 23.84
Std Dev 108
pull1D
Entries 94
Mean −0.01601
Std Dev 1.185

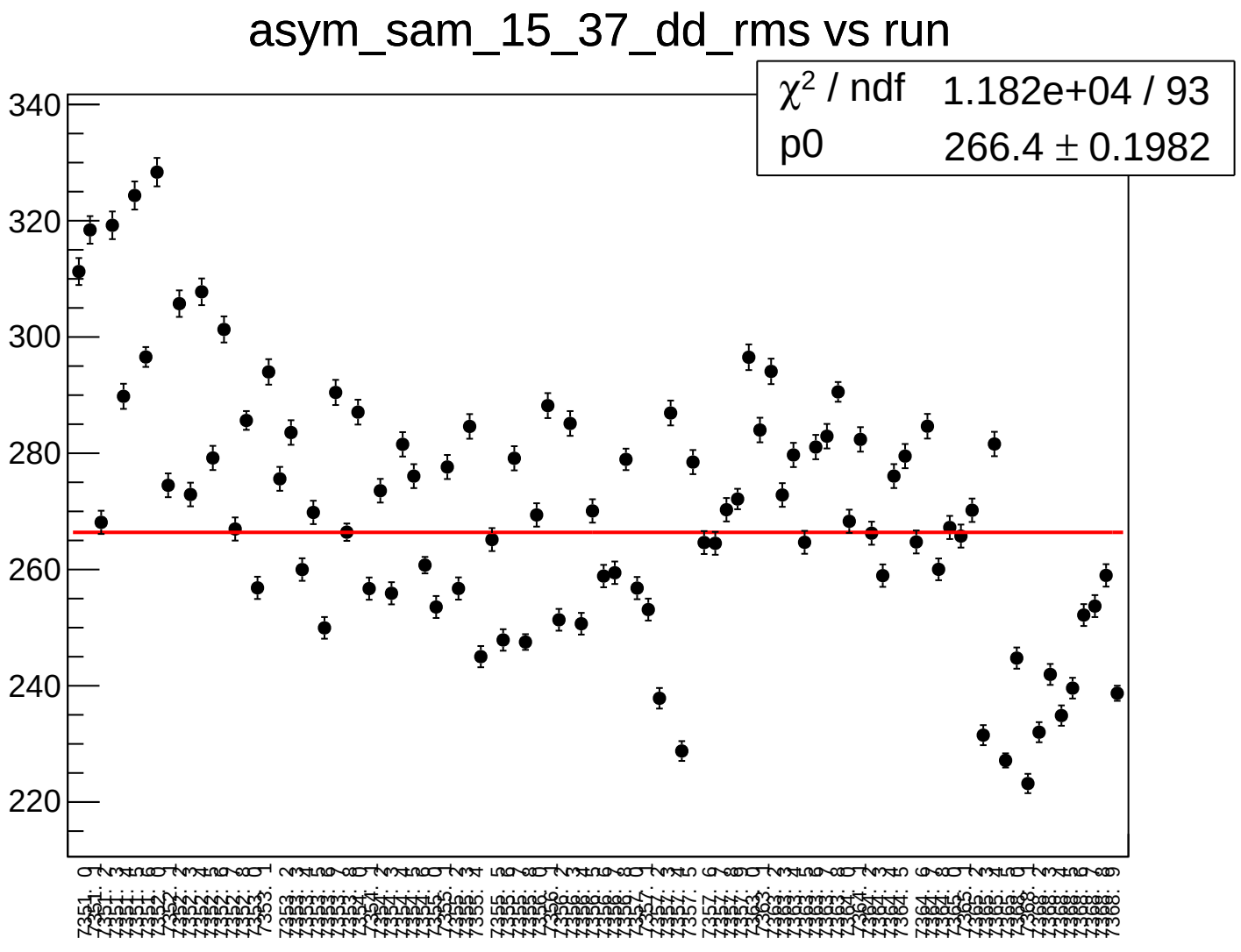

eigen_dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 1.139e+04 / 93
p0 49.21 ± 0.03661
60
58
56
54
52
50
48
46
44
42

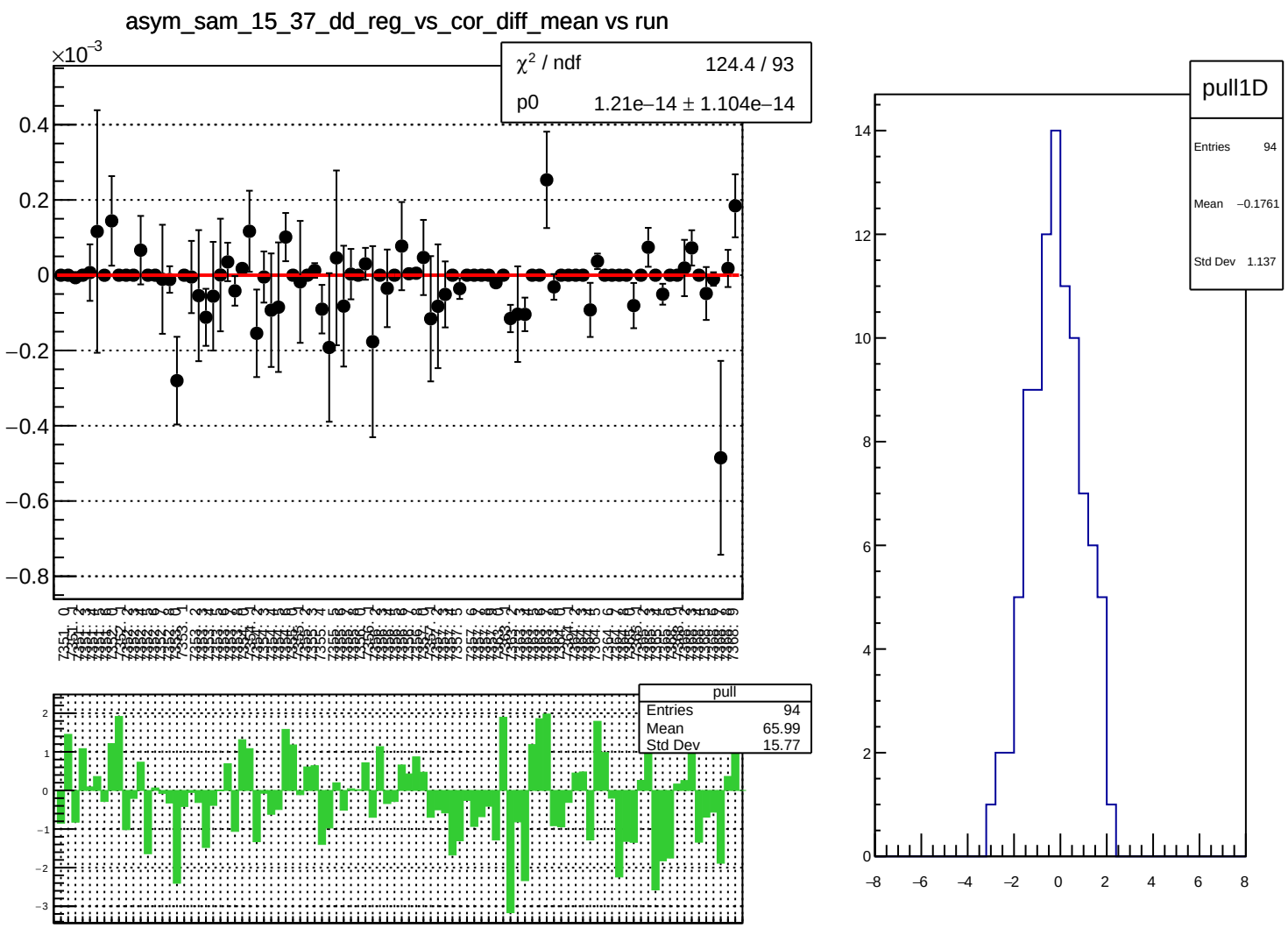

asym_sam_15_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 155.9 / 93
p0 −293.4 ± 300.4
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean −111.4
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 94
Mean 0.004354
Std Dev 1.288
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

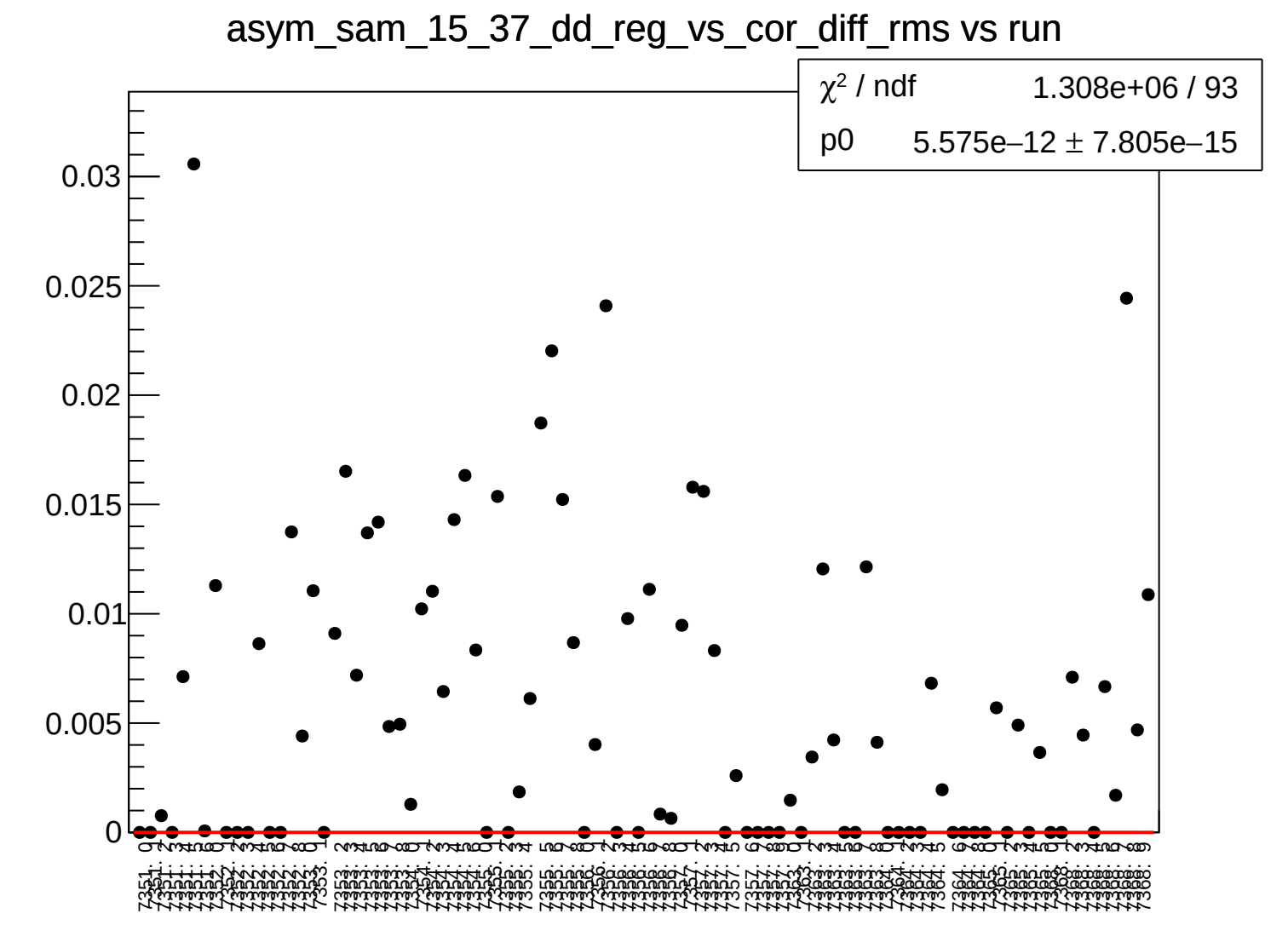

asym_sam_15_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 9775 / 93
p0 285.7 ± 0.2124
340
320
300
280
260
240

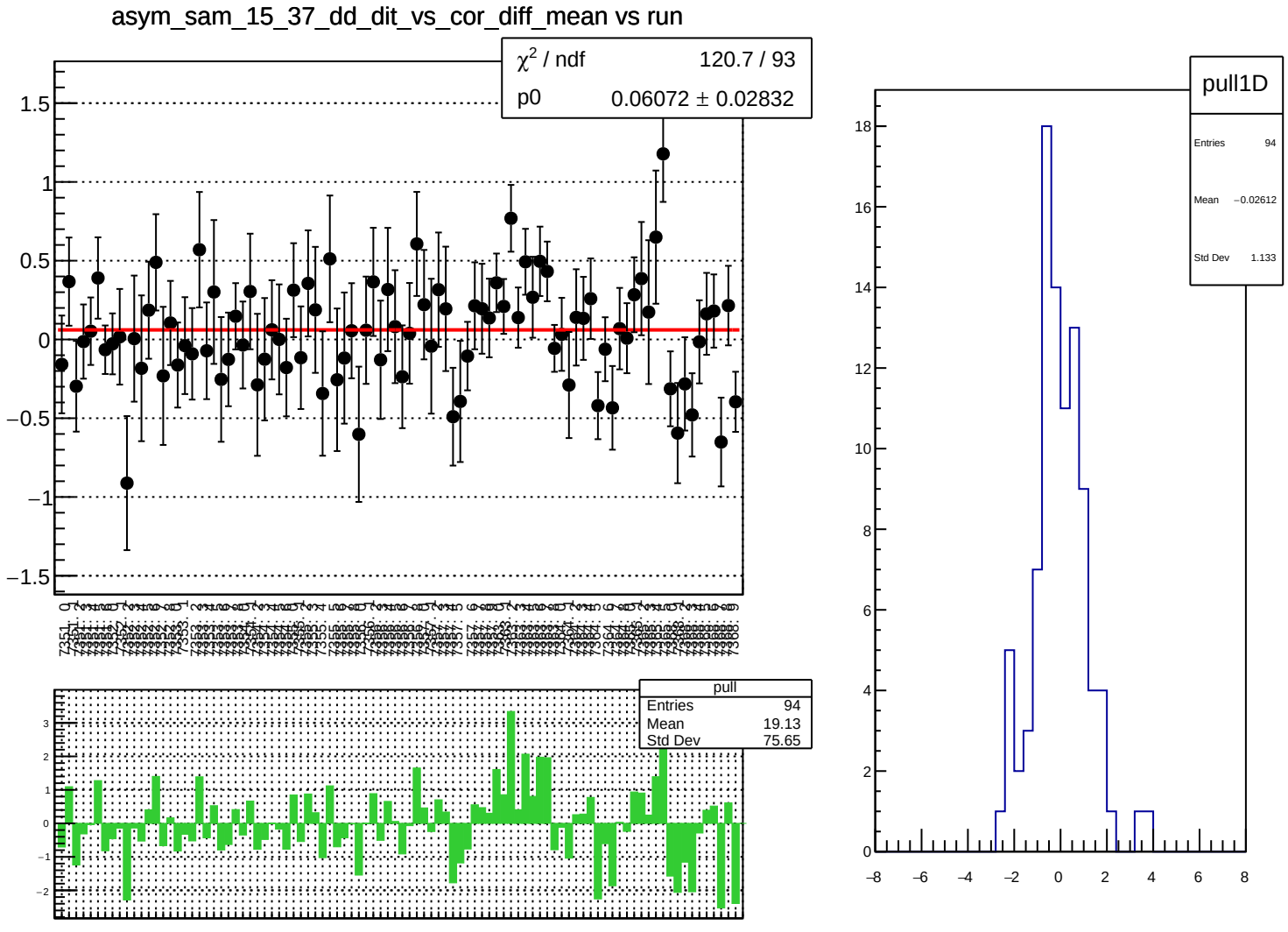

asym_sam_15_37_dd_mean vs run
χ² / ndf 166 / 93
p0 252 ± 280.3
15000
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 81.01
Std Dev 34.62
4
3
2
1
0
−1
−2
−3

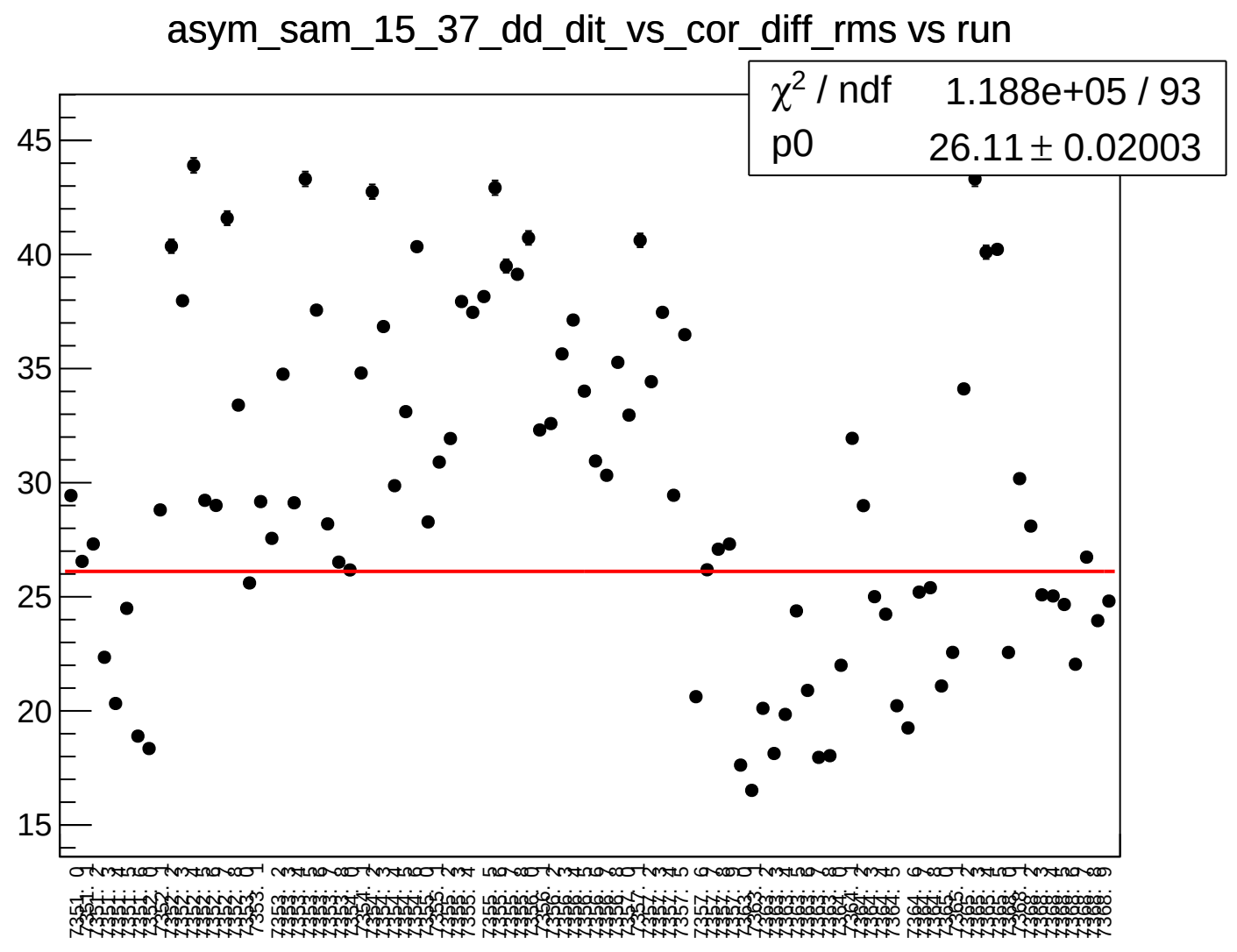

pull1D
Entries 94
Mean 0.01725
Std Dev 1.329
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

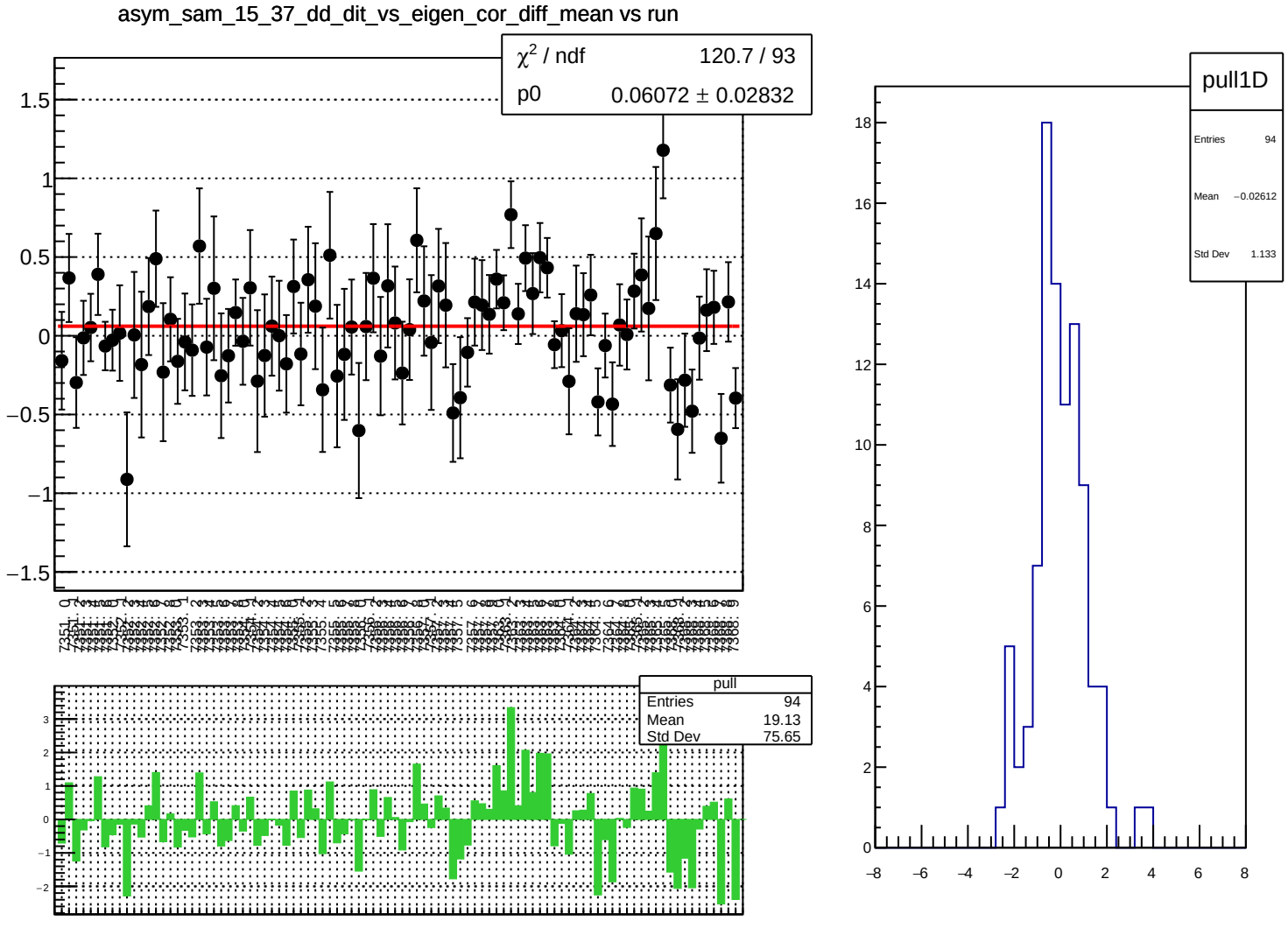

asym_sam_15_37_dd_rms vs run
χ² / ndf 1.182e+04 / 93
p0 266.4 ± 0.1982
340
320
300
280
260
240
220

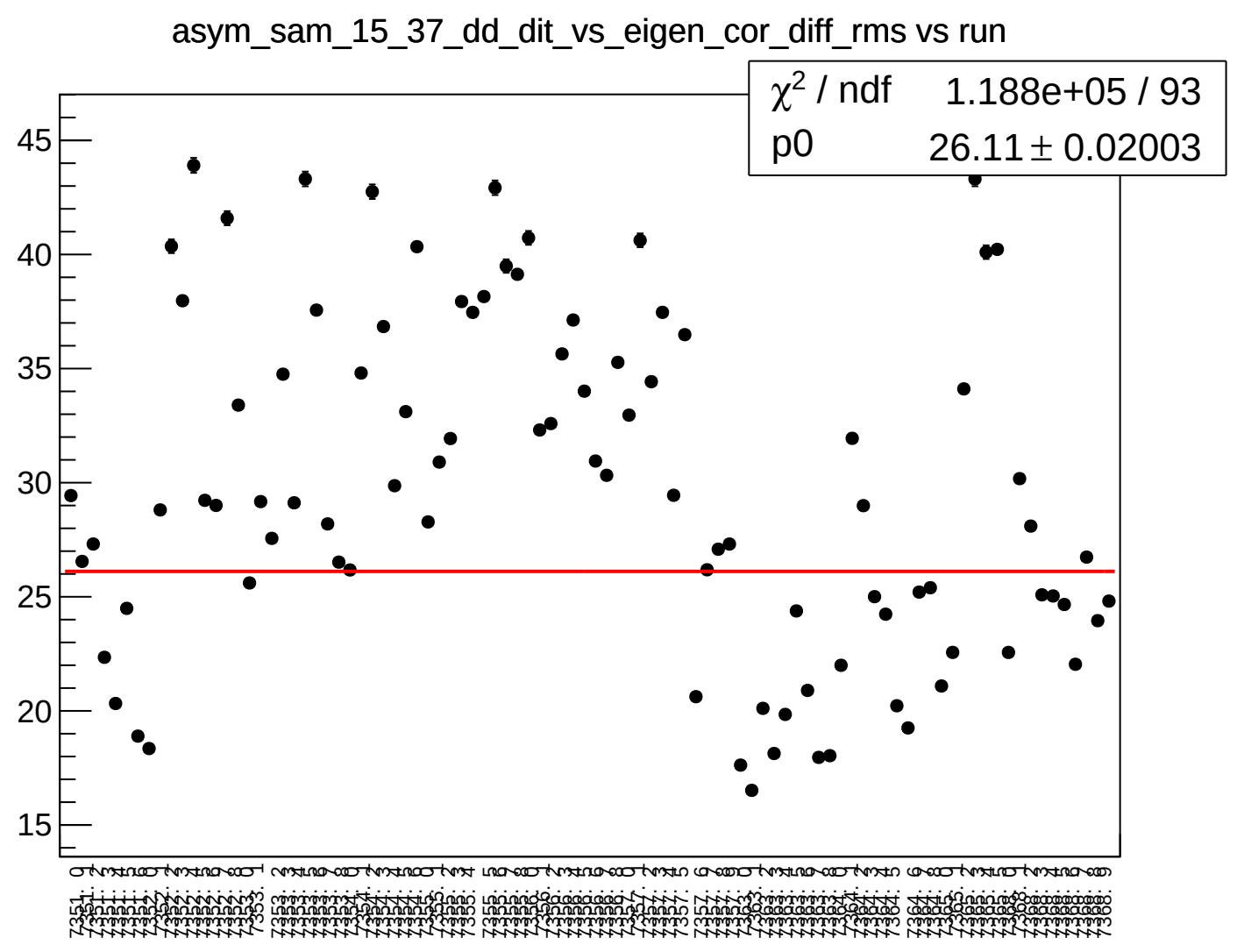

asym_sam_15_37_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 124.4 / 93
p0 1.21e−14 ± 1.104e−14
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull
Entries 94
Mean 65.99
Std Dev 15.77
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.1761
Std Dev 1.137
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

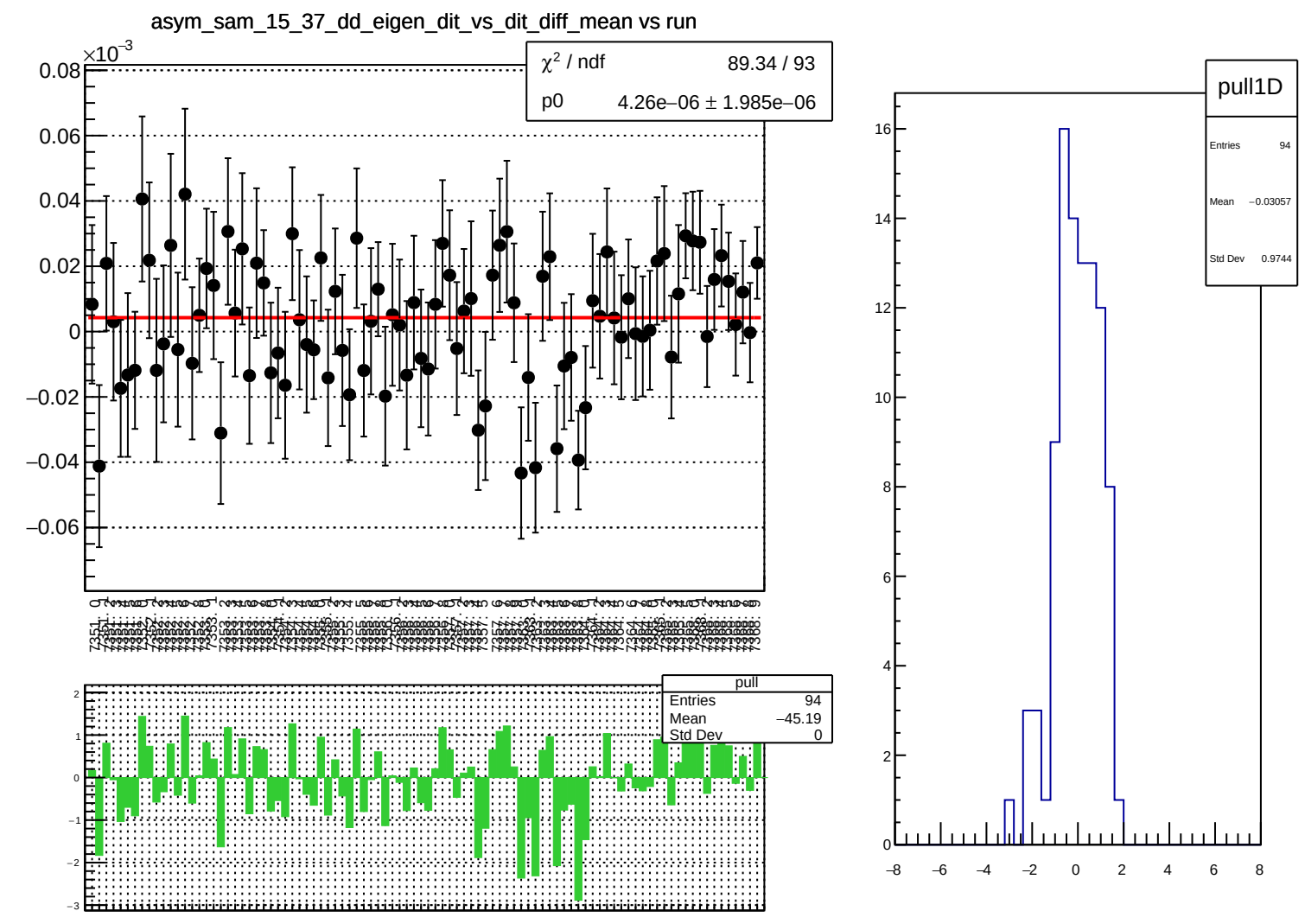

asym_sam_15_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.308e+06 / 93
p0 5.575e−12 ± 7.805e−15
0.03
0.025
0.02
0.015
0.01
0.005
0

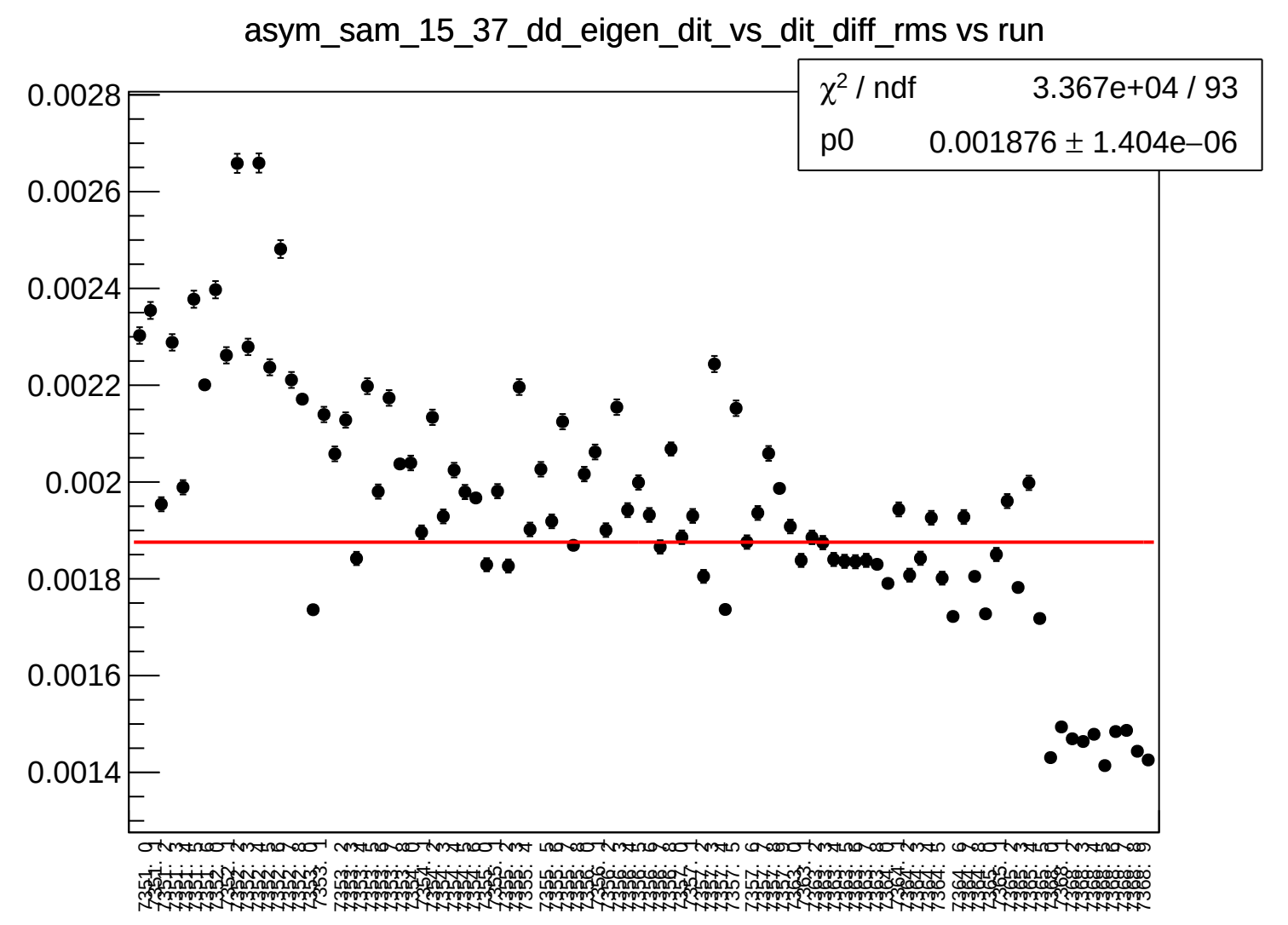

asym_sam_15_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 120.7 / 93
p0 0.06072 ± 0.02832
pull
Entries 94
Mean 19.13
Std Dev 75.65
pull1D
Entries 94
Mean −0.02612
Std Dev 1.133

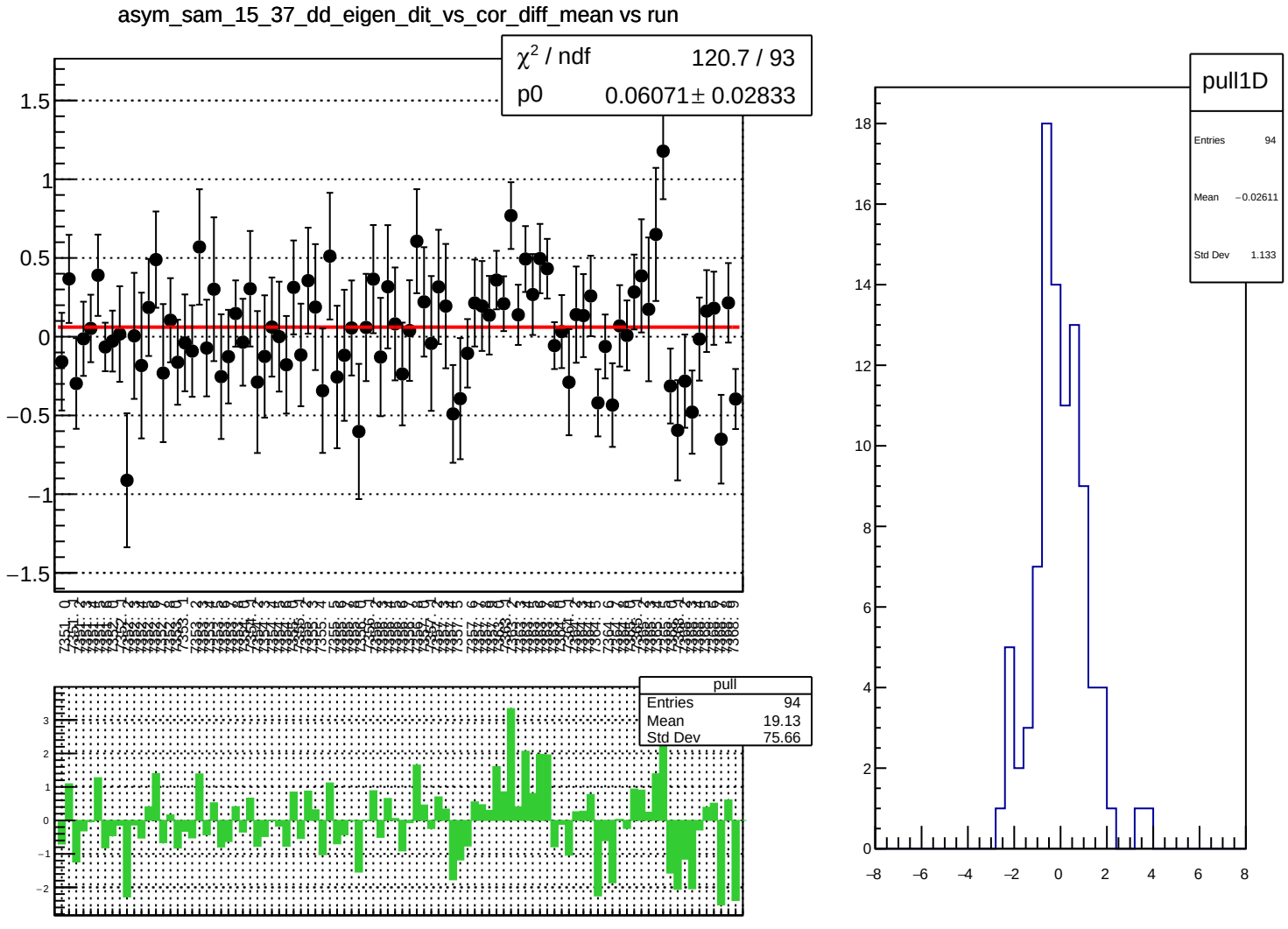

asym_sam_15_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.188e+05 / 93
p0 26.11 ± 0.02003
45
40
35
30
25
20
15

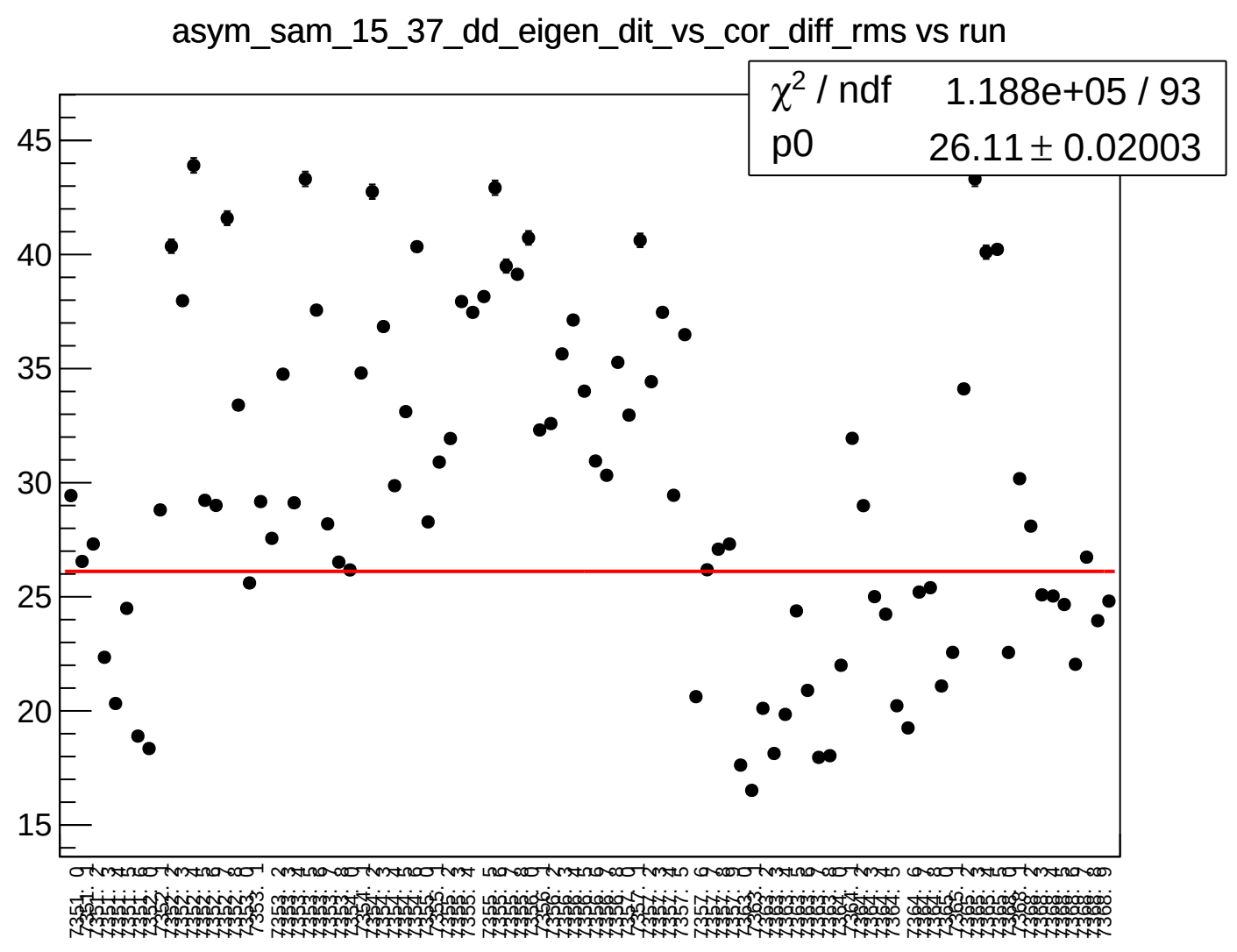

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 120.7 / 93
p0 0.06072 ± 0.02832
pull
Entries 94
Mean 19.13
Std Dev 75.65
pull1D
Entries 94
Mean −0.02612
Std Dev 1.133

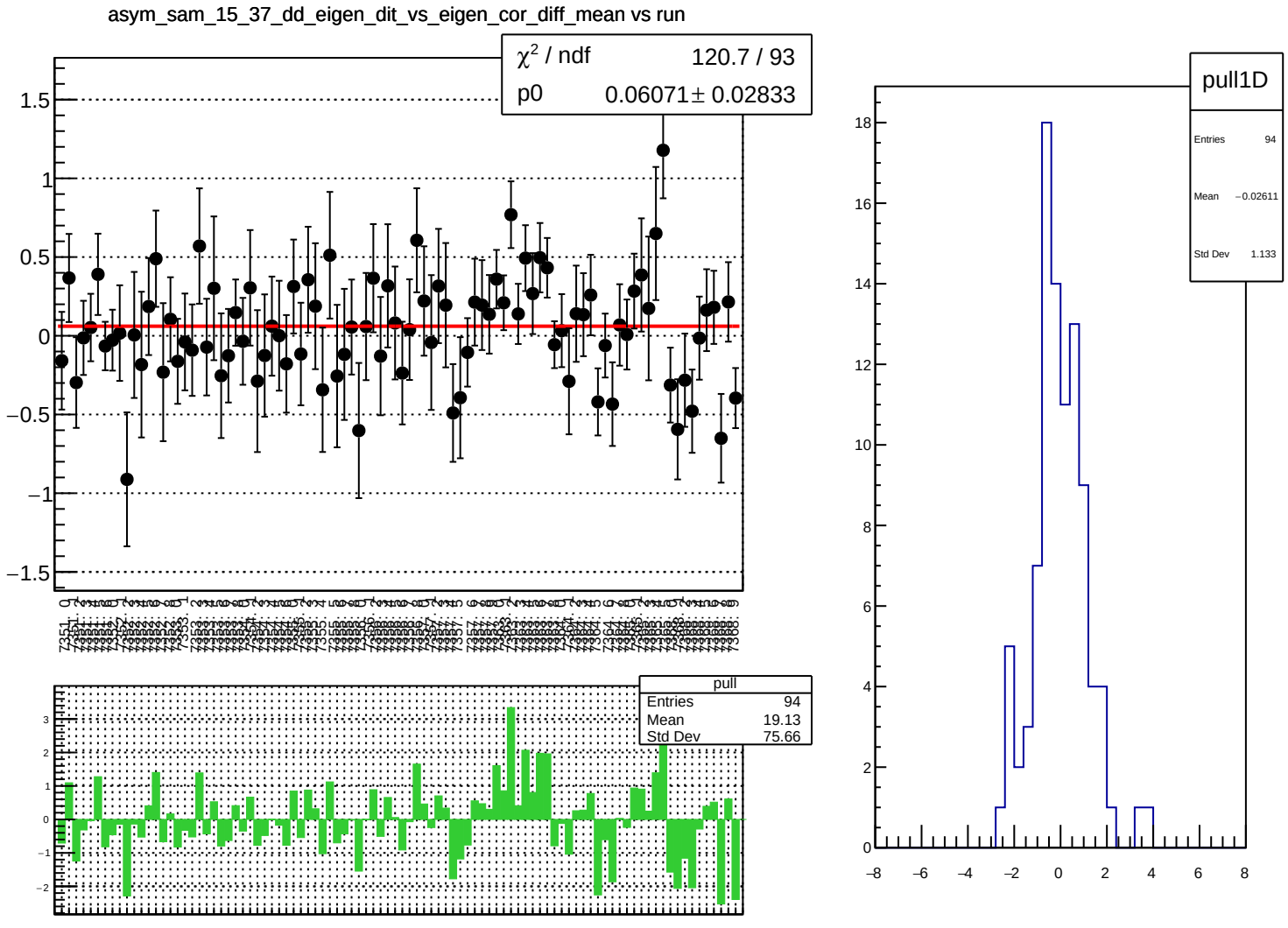

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.188e+05 / 93
p0 26.11 ± 0.02003
45
40
35
30
25
20
15

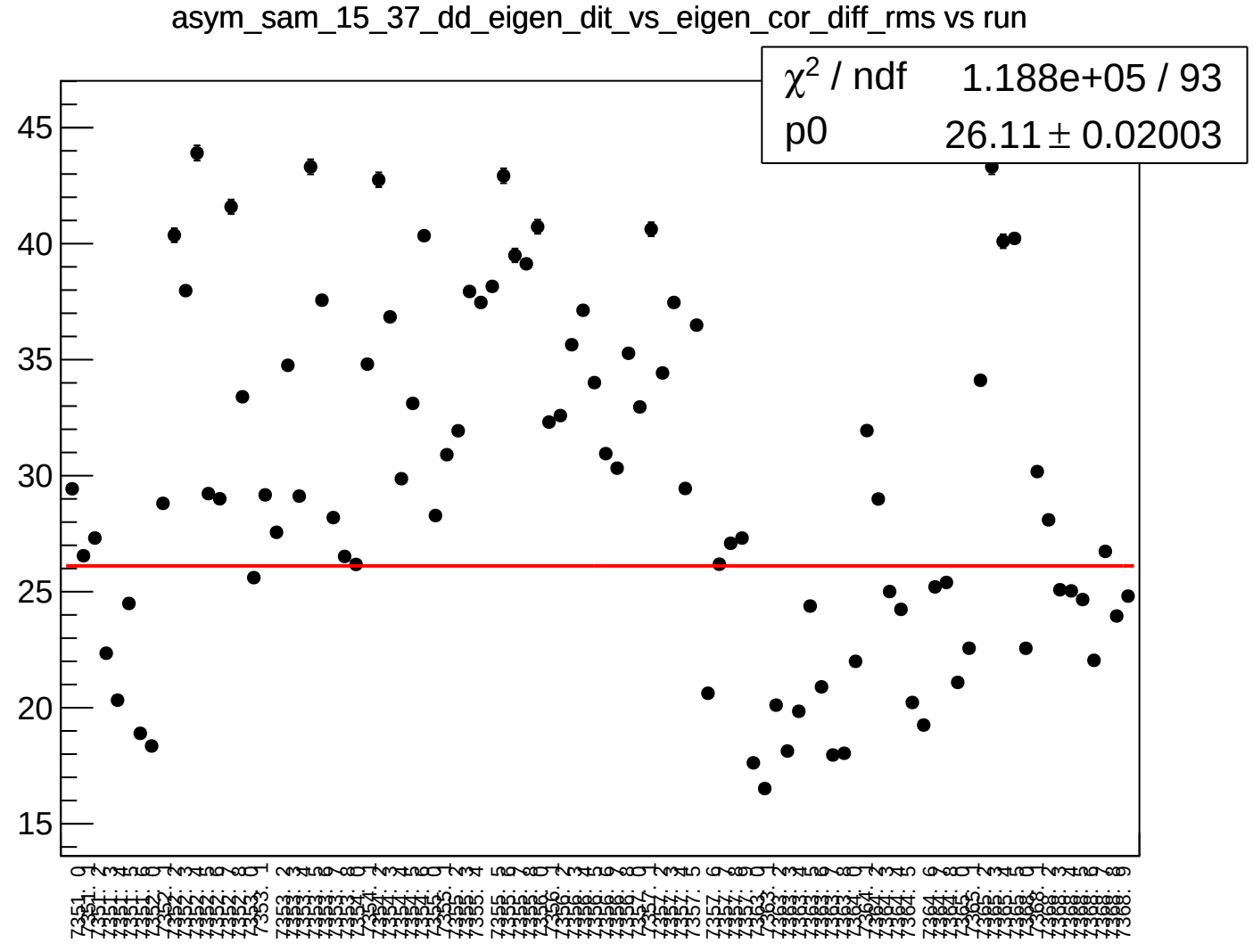

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.34 / 93
p0 4.26e−06 ± 1.985e−06
pull
Entries 94
Mean −45.19
Std Dev 0
pull1D
Entries 94
Mean −0.03057
Std Dev 0.9744

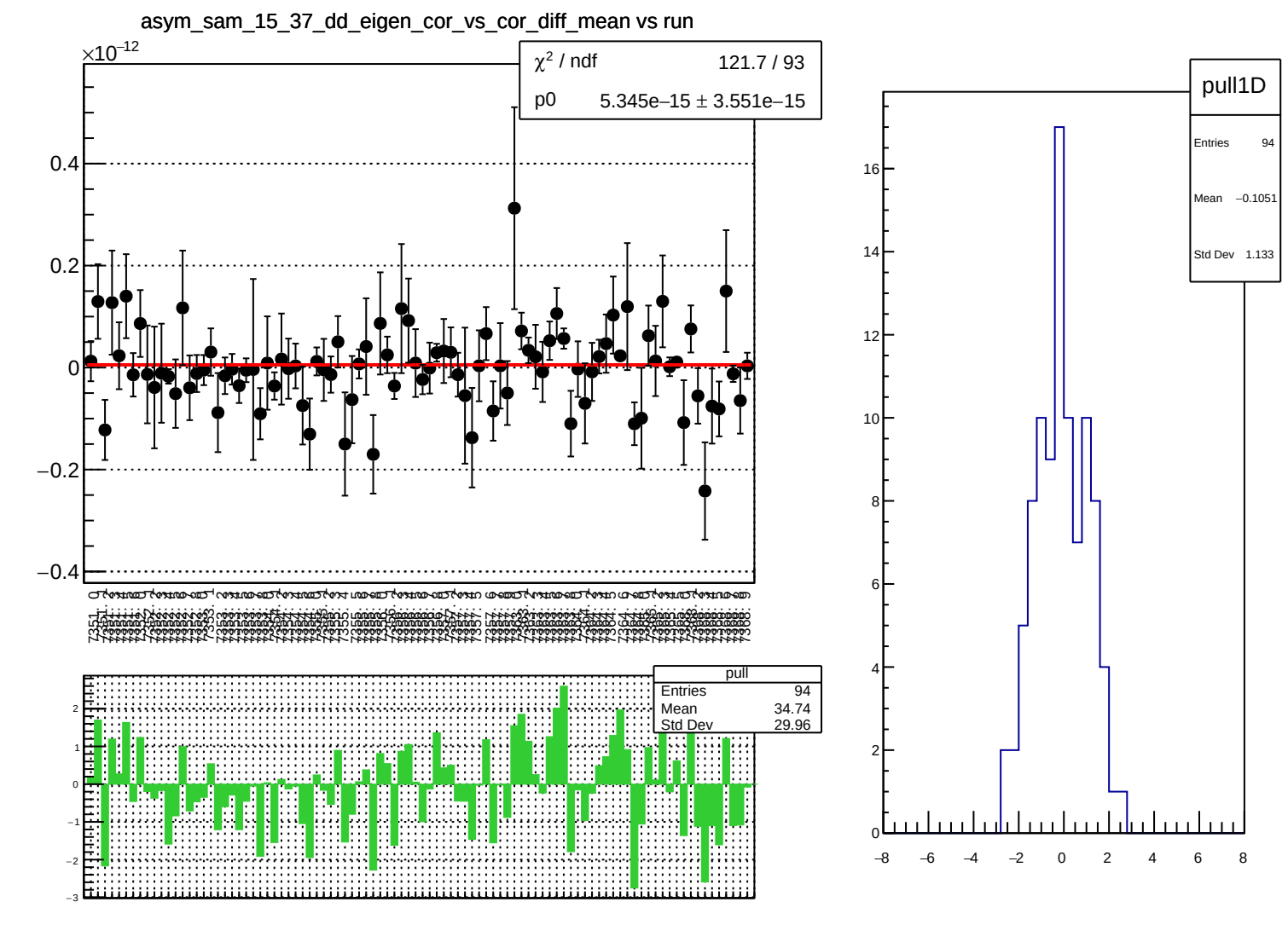

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.367e+04 / 93
p0 0.001876 ± 1.404e−06
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014

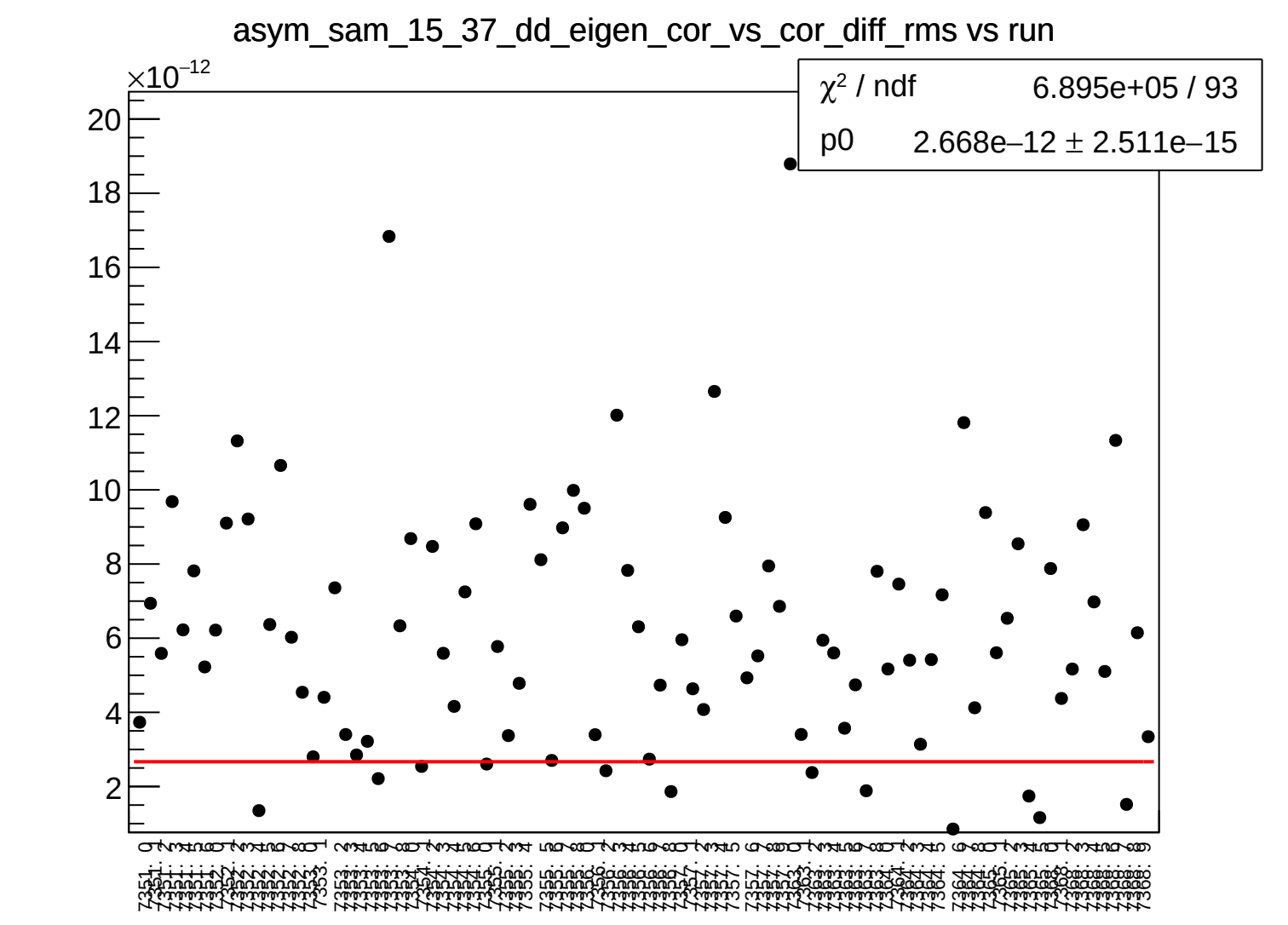

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 120.7 / 93
p0 0.06071 ± 0.02833
pull
Entries 94
Mean 19.13
Std Dev 75.66
pull1D
Entries 94
Mean −0.02611
Std Dev 1.133

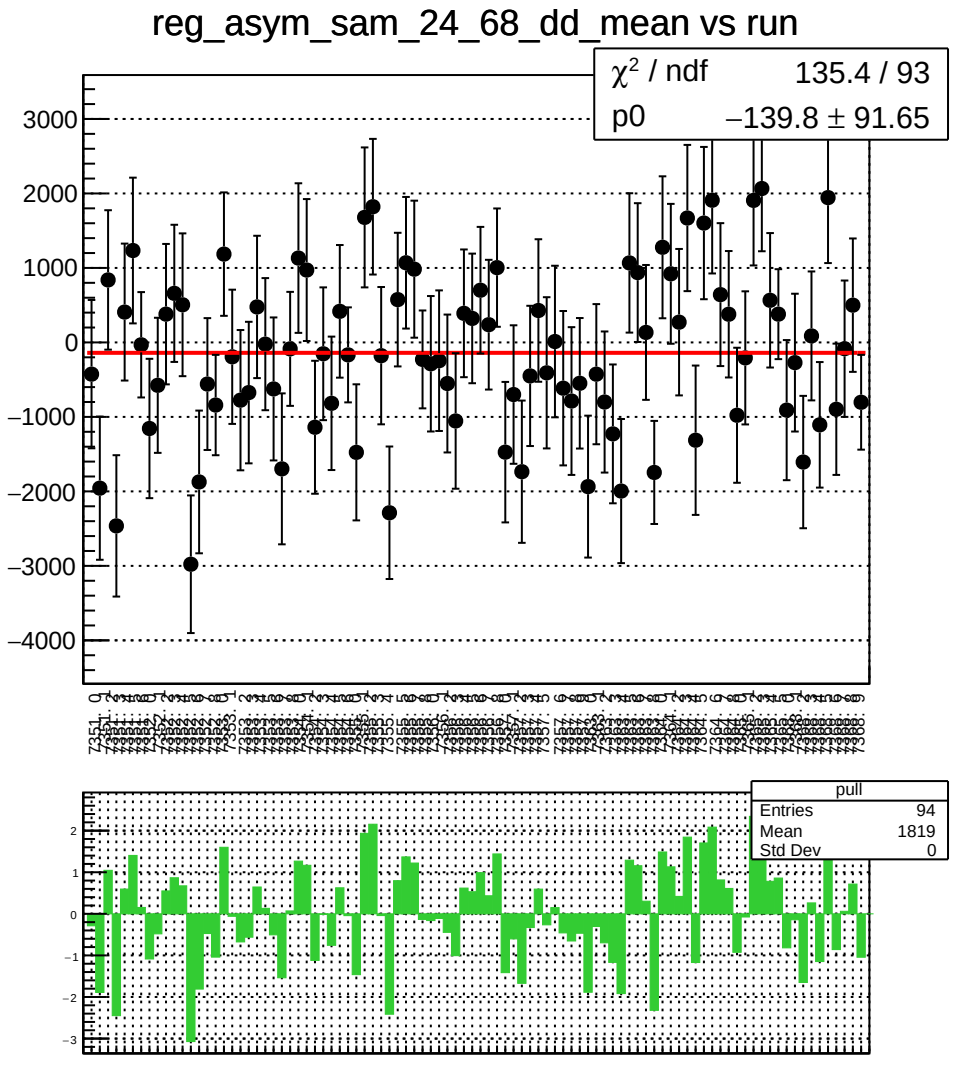

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.188e+05 / 93
p0 26.11 ± 0.02003
45
40
35
30
25
20
15

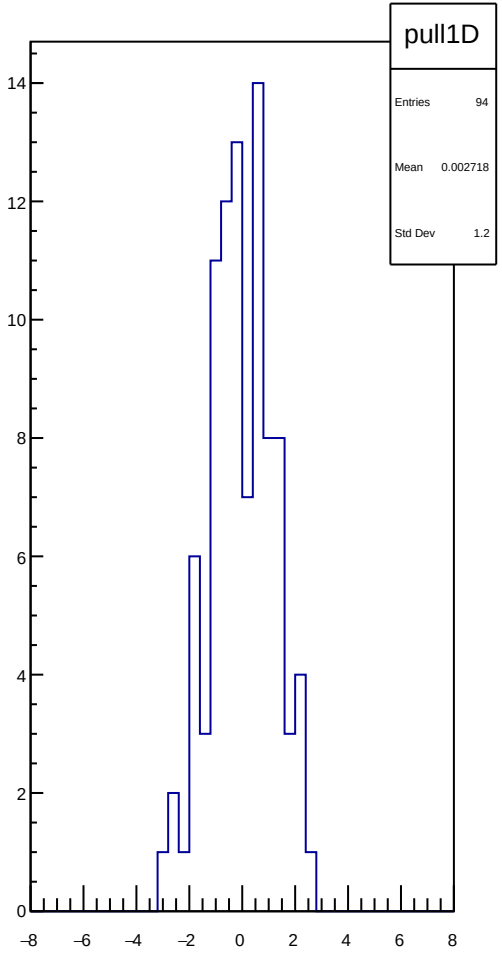

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 120.7 / 93
p0 0.06071 ± 0.02833
pull
Entries 94
Mean 19.13
Std Dev 75.66
pull1D
Entries 94
Mean −0.02611
Std Dev 1.133

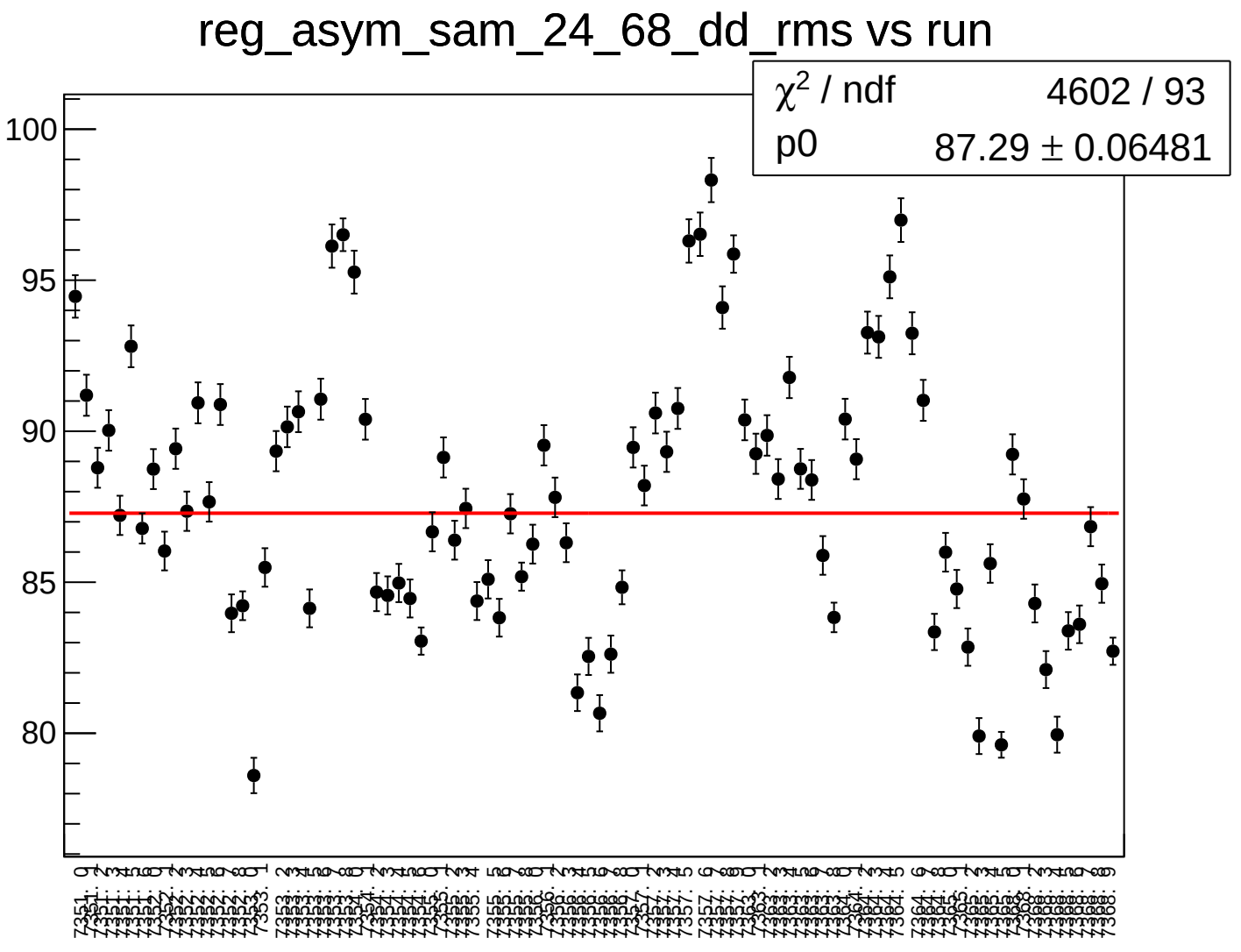

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.188e+05 / 93
p0 26.11 ± 0.02003
45
40
35
30
25
20
15

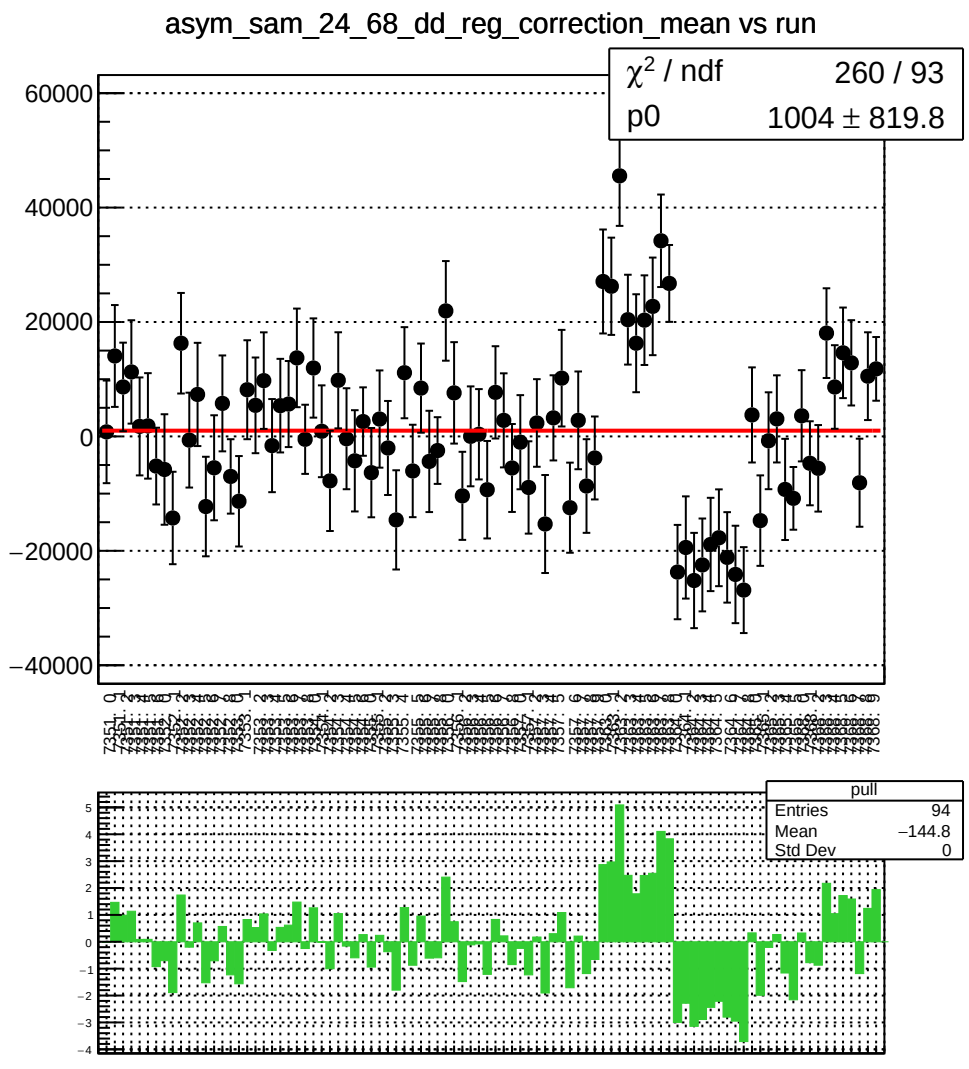

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 121.7 / 93
p0 5.345e−15 ± 3.551e−15
0.4
0.2
0
−0.2
−0.4
pull
Entries 94
Mean 34.74
Std Dev 29.96
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.1051
Std Dev 1.133
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

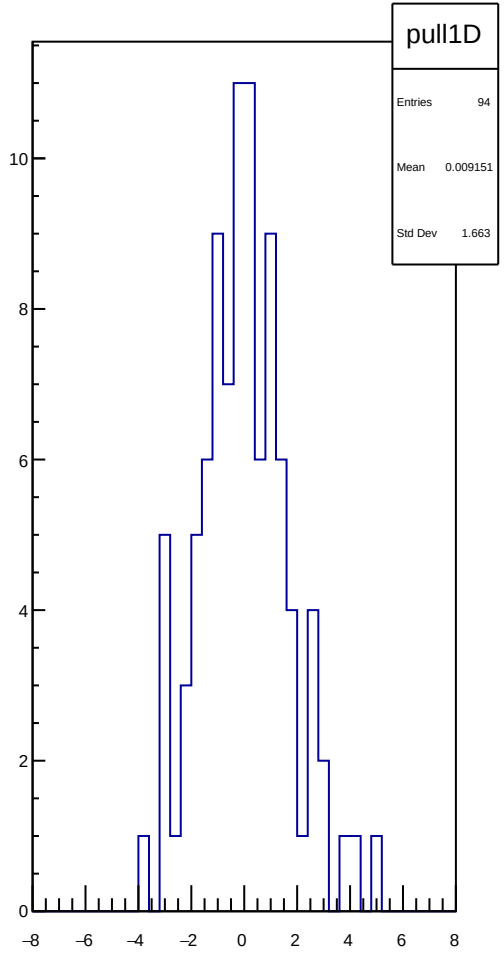

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.895e+05 / 93
p0 2.668e−12 ± 2.511e−15
20
18
16
14
12
10
8
6
4
2

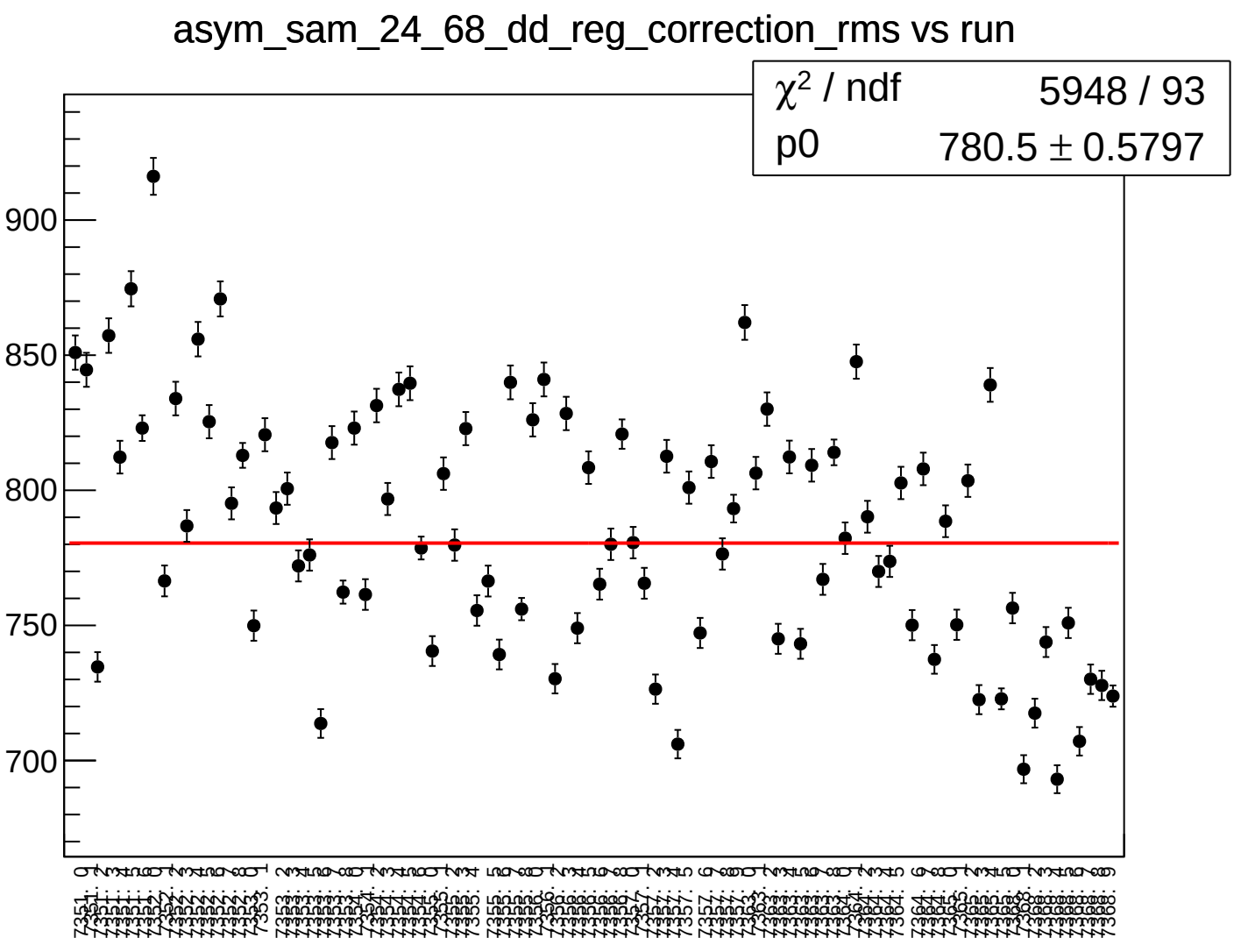

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 135.4 / 93
p0 −139.8 ± 91.65
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 94
Mean 1819
Std Dev 0
2
1
0
−1
−2
−3

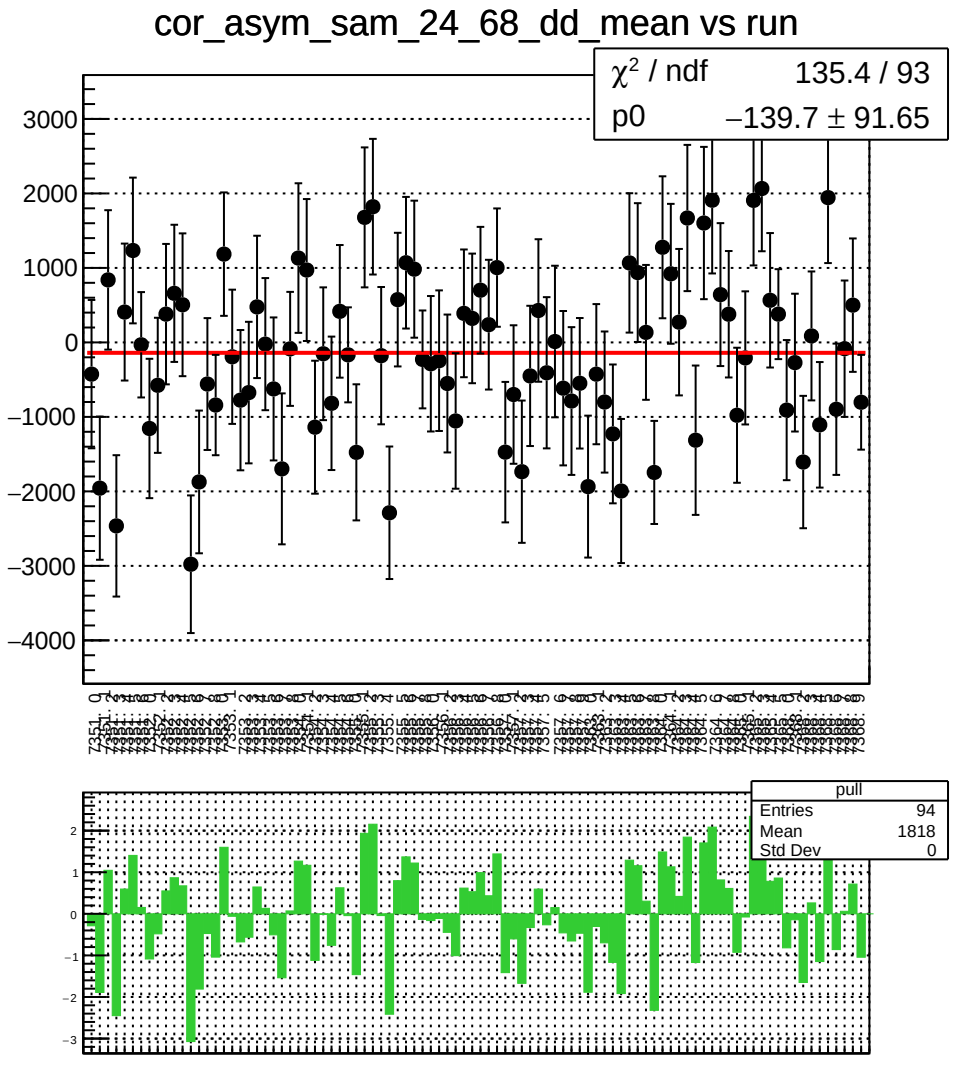

pull1D
Entries 94
Mean 0.002718
Std Dev 1.2
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

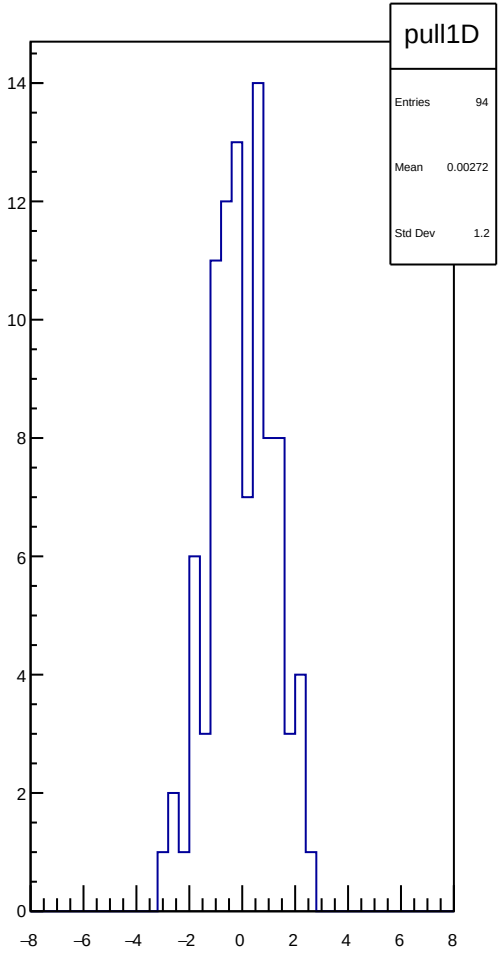

reg_asym_sam_24_68_dd_rms vs run
χ^2 / ndf 4602 / 93
p0 87.29 ± 0.06481
100
95
90
85
80

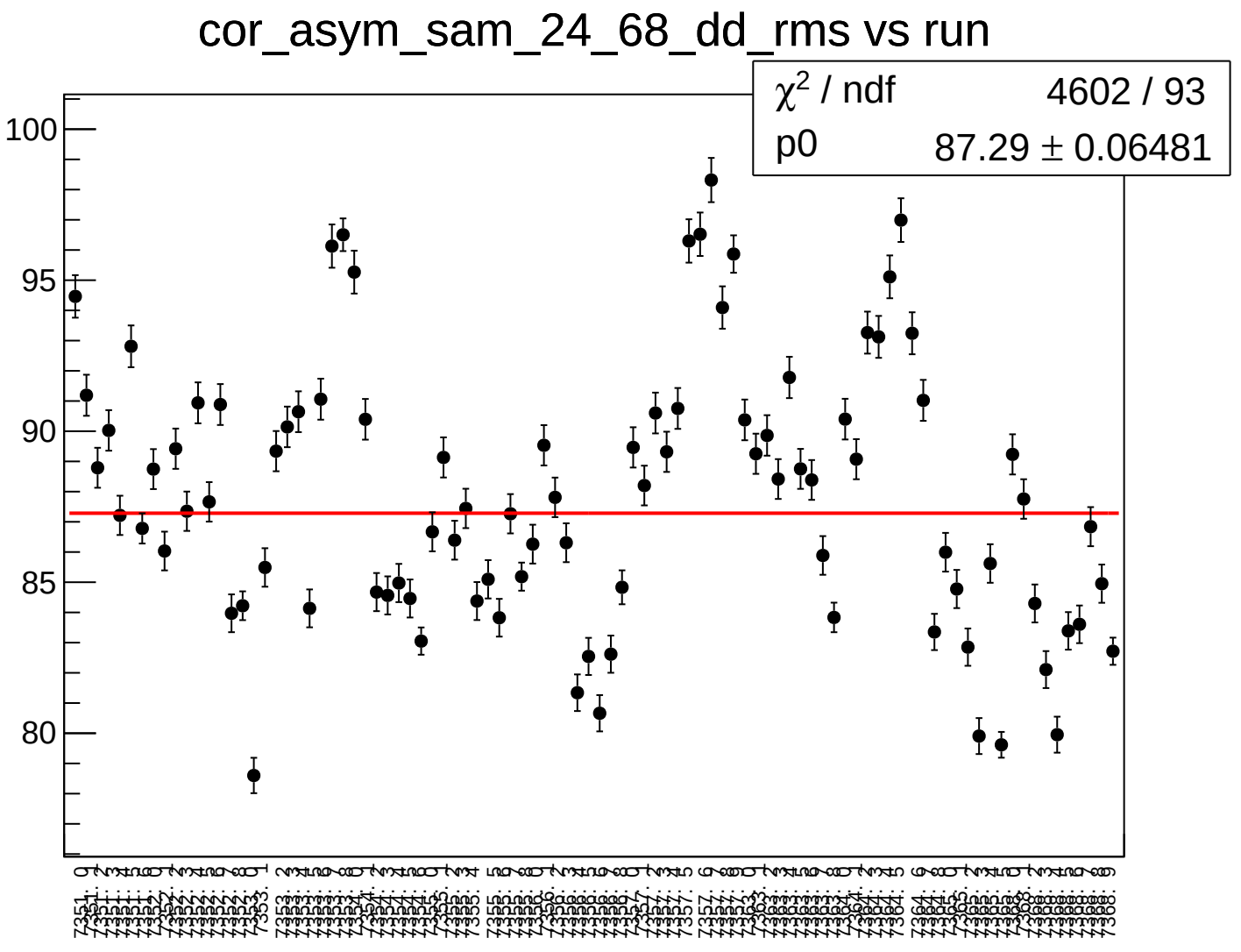

asym_sam_24_68_dd_reg_correction_mean vs run
χ² / ndf 260 / 93
p0 1004 ± 819.8
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −144.8
Std Dev 0
5
4
3
2
1
0
−1
−2
−3
−4

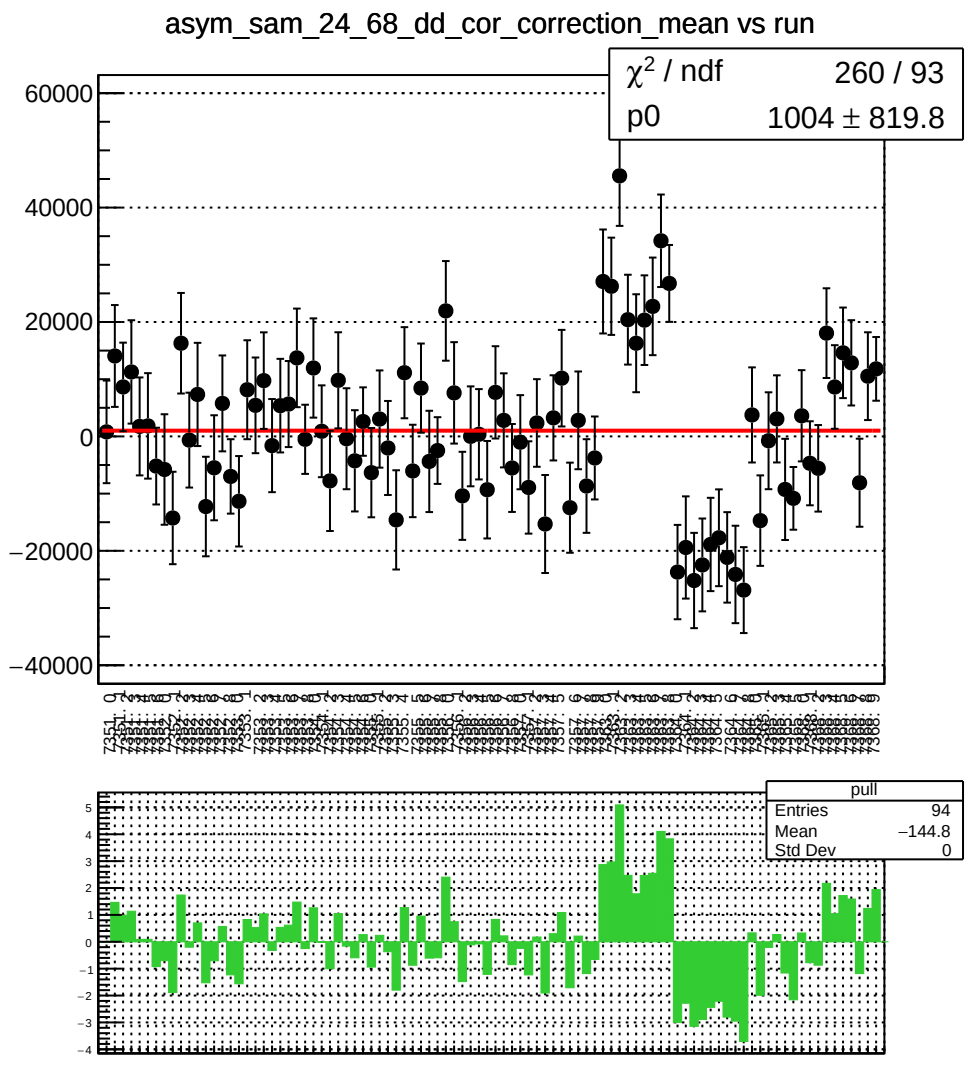

pull1D
Entries 94
Mean 0.009151
Std Dev 1.663
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

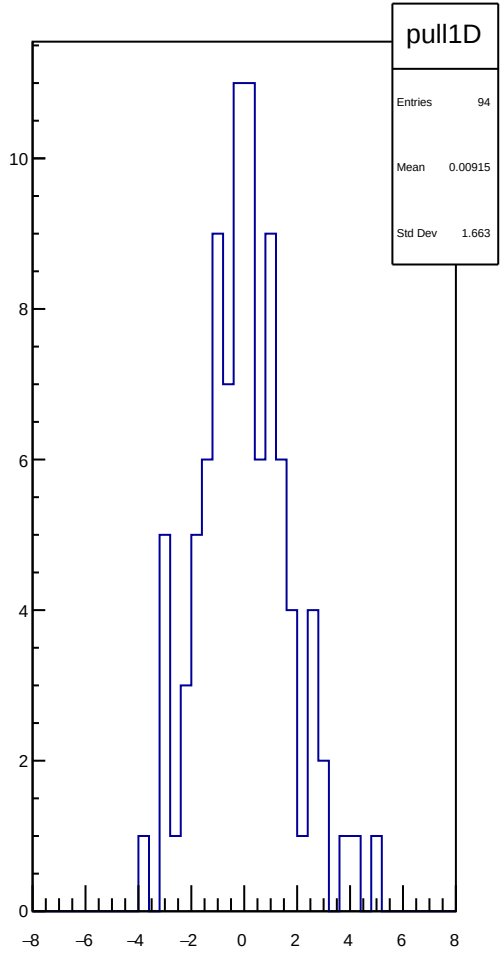

asym_sam_24_68_dd_reg_correction_rms vs run
χ² / ndf 5948 / 93
p0 780.5 ± 0.5797
900
850
800
750
700

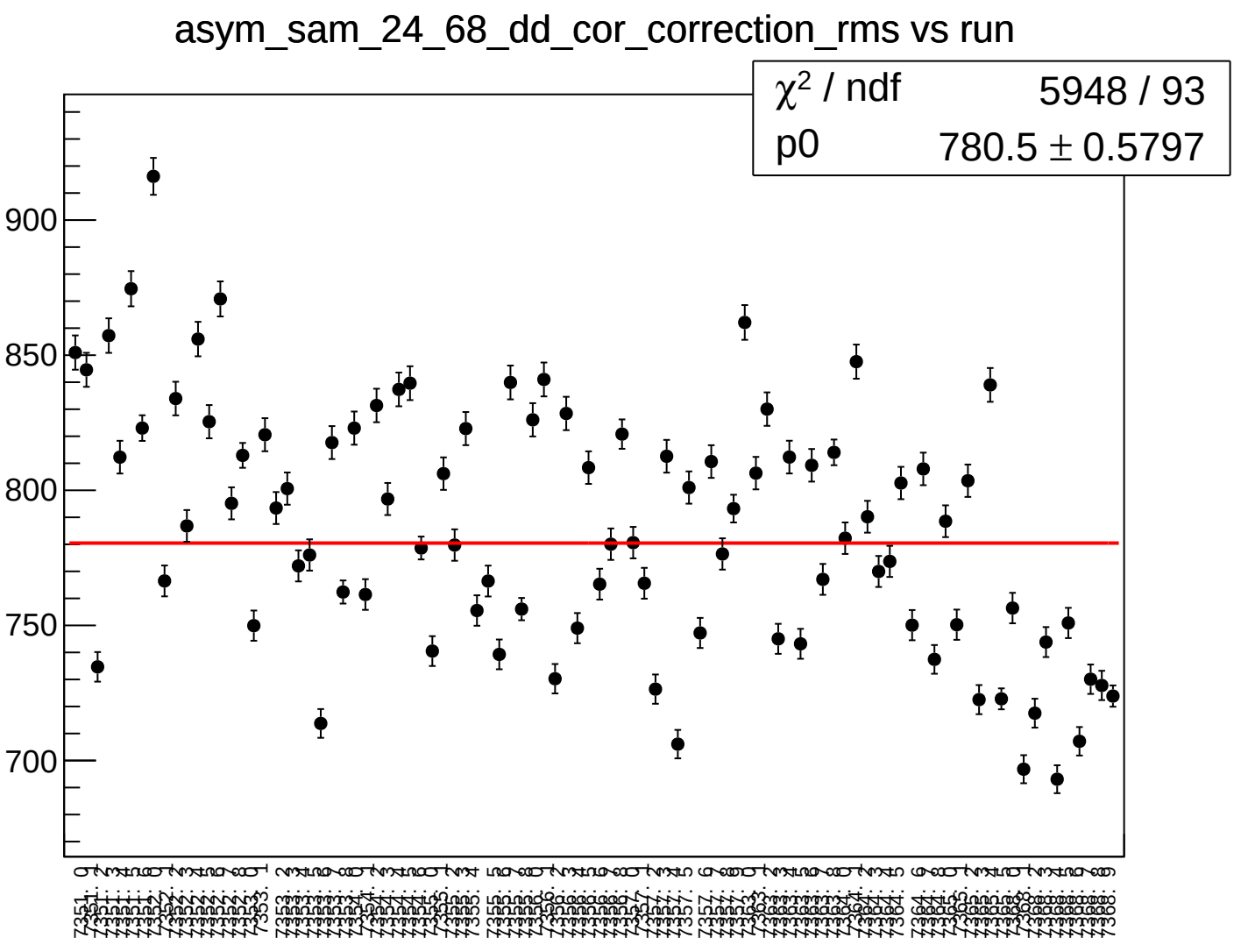

cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 135.4 / 93
p0 −139.7 ± 91.65
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 94
Mean 1818
Std Dev 0
2
1
0
−1
−2
−3

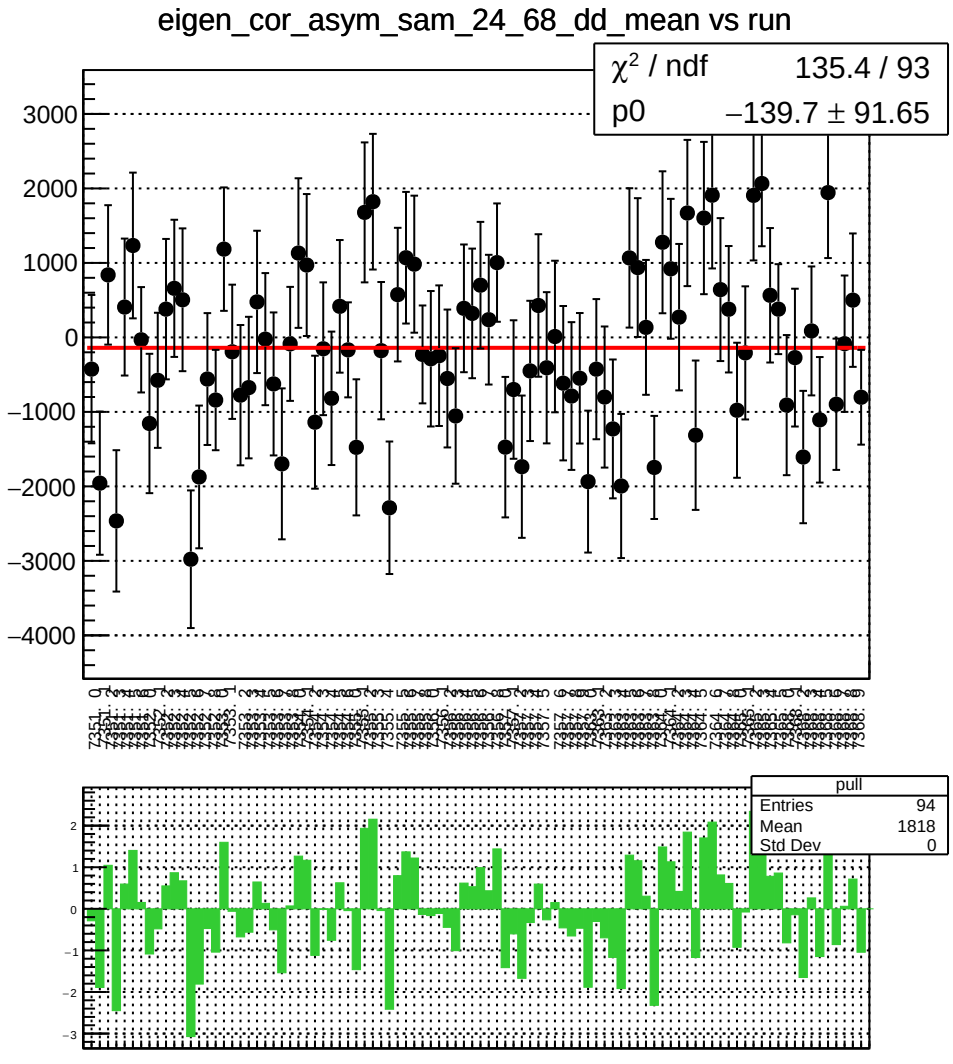

pull1D
Entries 94
Mean 0.00272
Std Dev 1.2
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

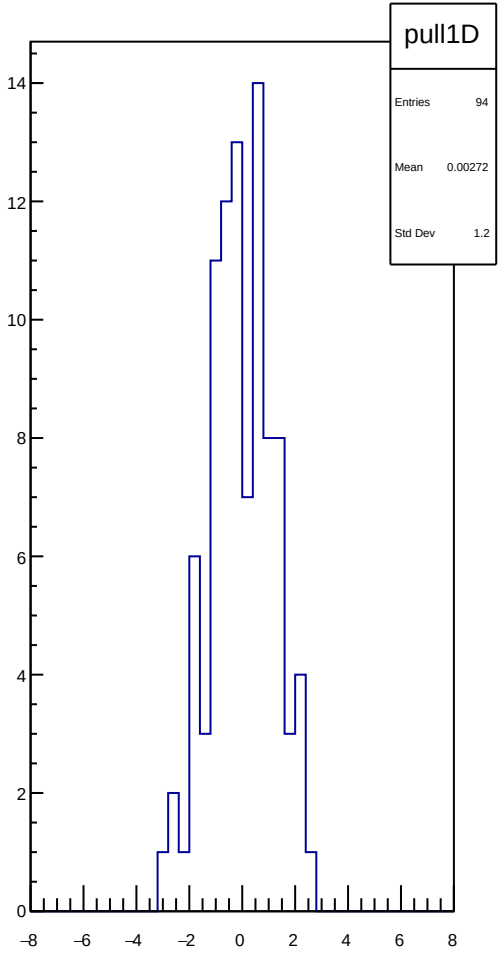

cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 4602 / 93
p0 87.29 ± 0.06481
100
95
90
85
80

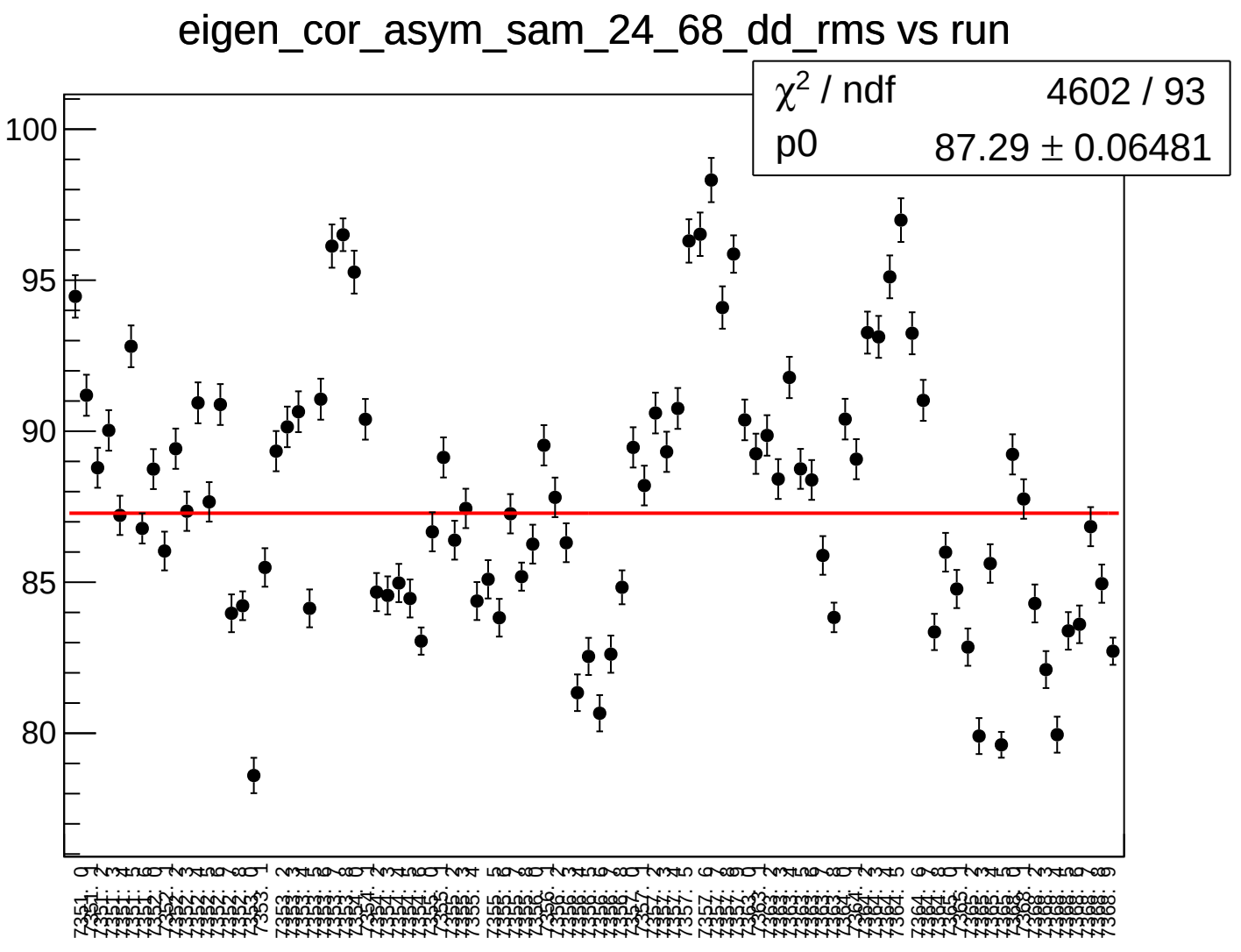

asym_sam_24_68_dd_cor_correction_mean vs run
χ² / ndf 260 / 93
p0 1004 ± 819.8
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −144.8
Std Dev 0
5
4
3
2
1
0
−1
−2
−3
−4

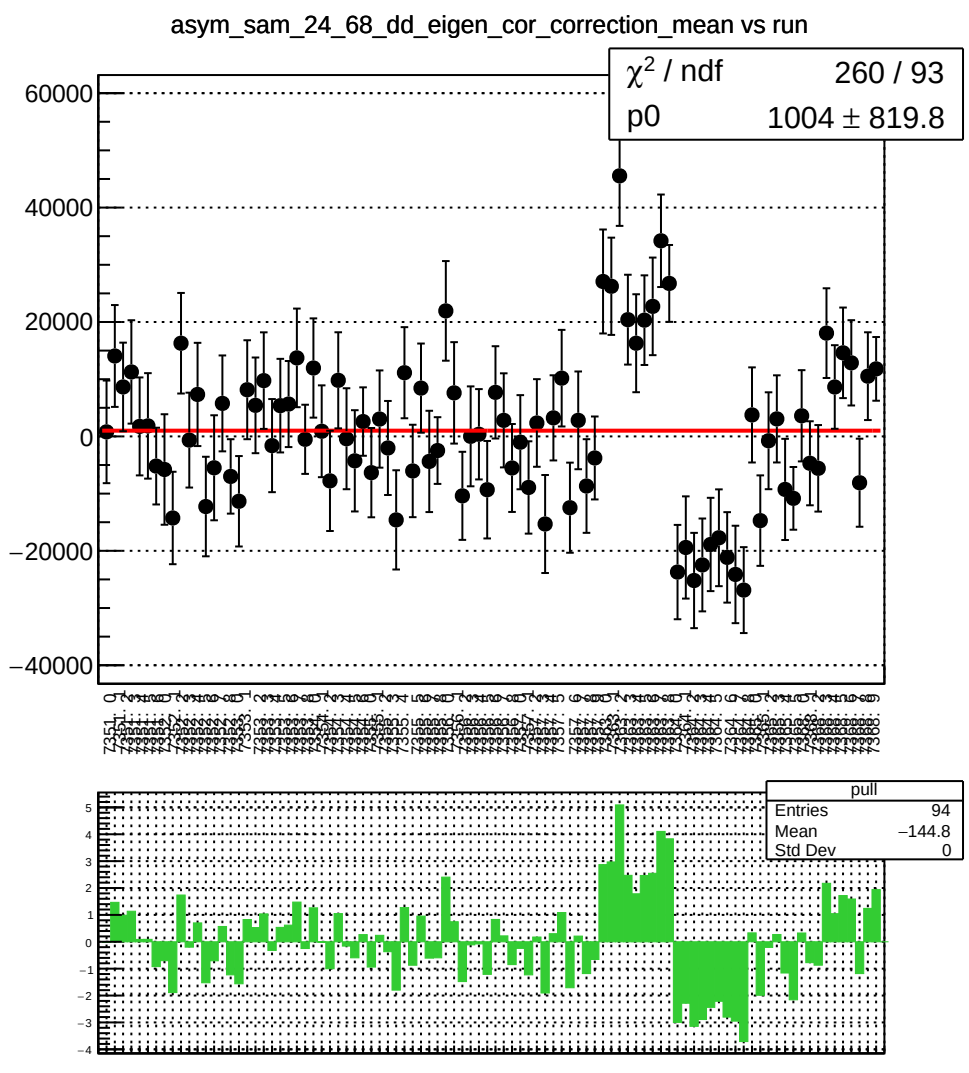

pull1D
Entries 94
Mean 0.00915
Std Dev 1.663
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

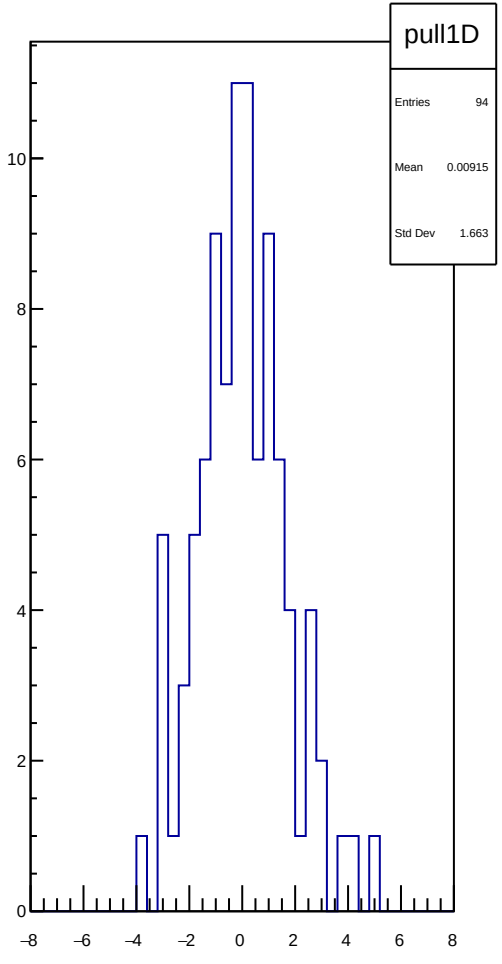

asym_sam_24_68_dd_cor_correction_rms vs run
χ² / ndf 5948 / 93
p0 780.5 ± 0.5797
900
850
800
750
700

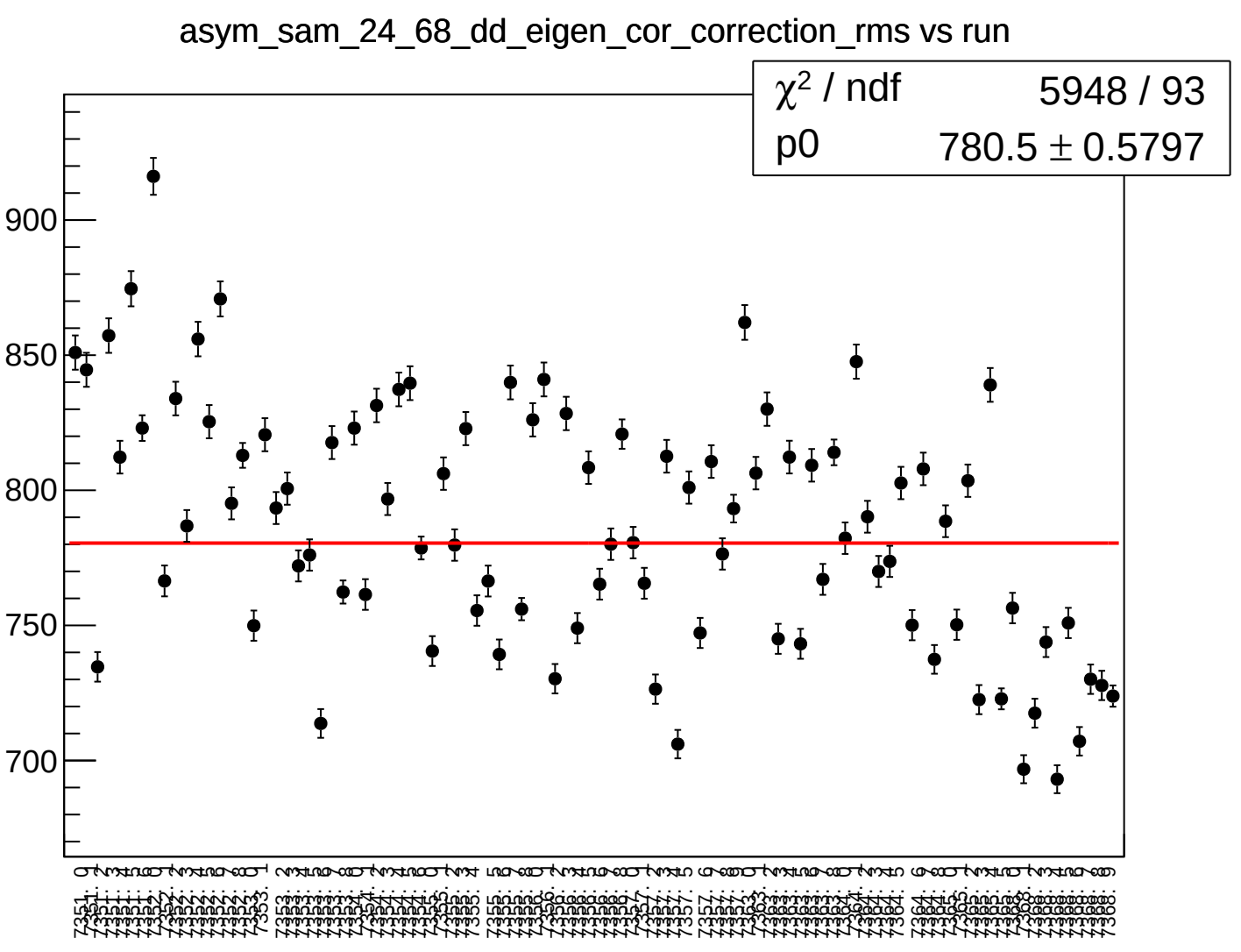

eigen_cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 135.4 / 93
p0 −139.7 ± 91.65
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 94
Mean 1818
Std Dev 0
2
1
0
−1
−2
−3

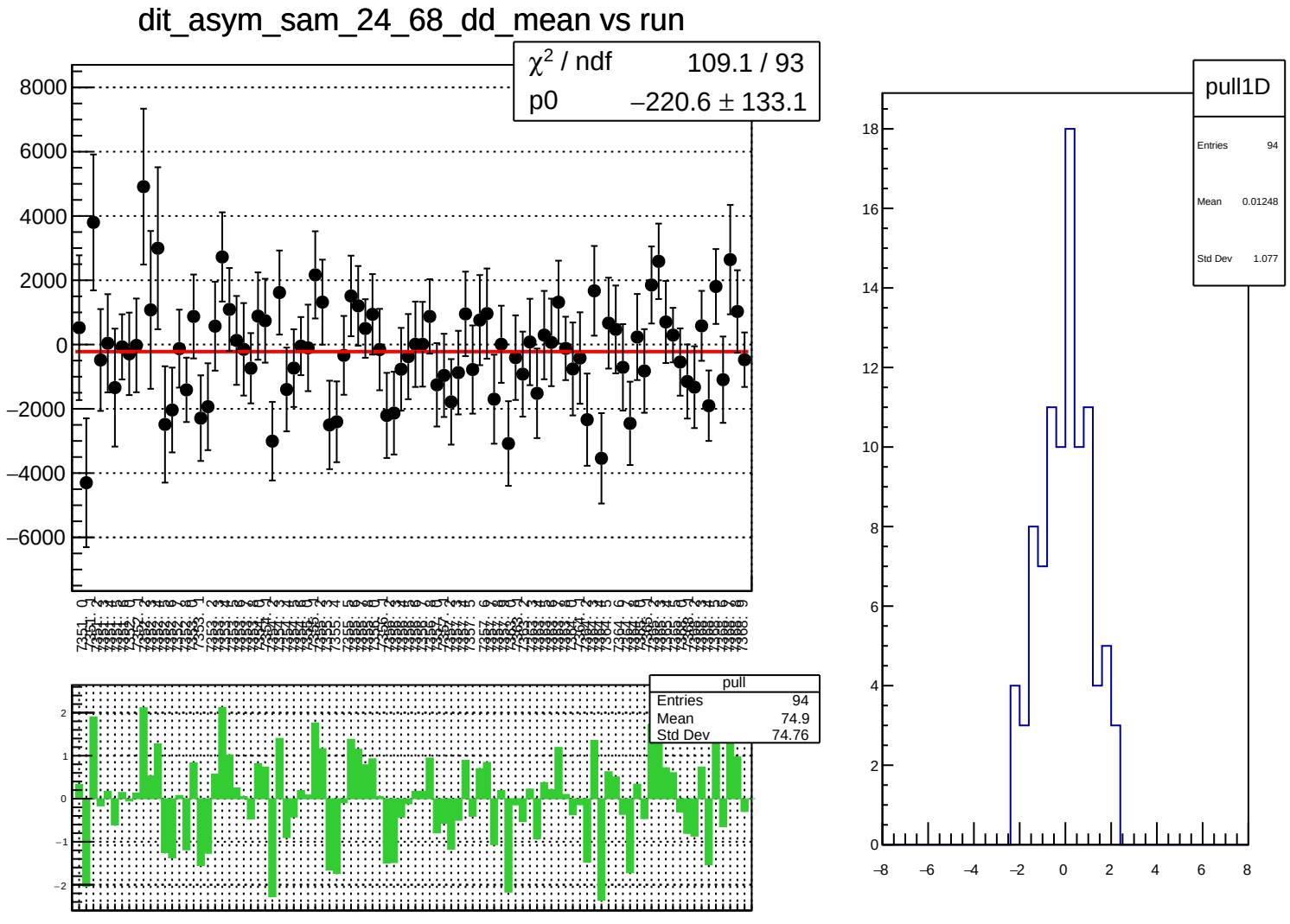

pull1D
Entries 94
Mean 0.00272
Std Dev 1.2
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

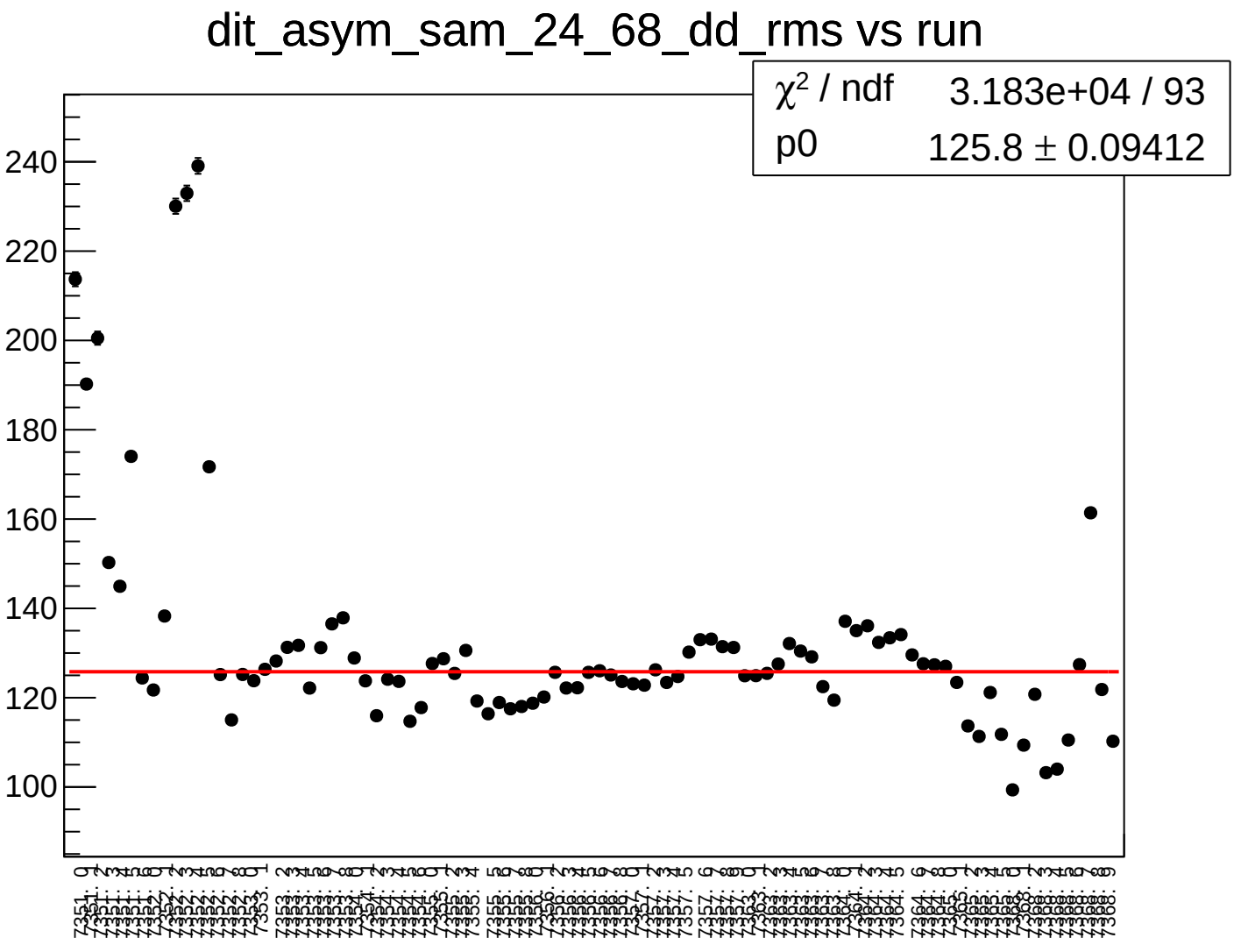

eigen_cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 4602 / 93
p0 87.29 ± 0.06481
100
95
90
85
80

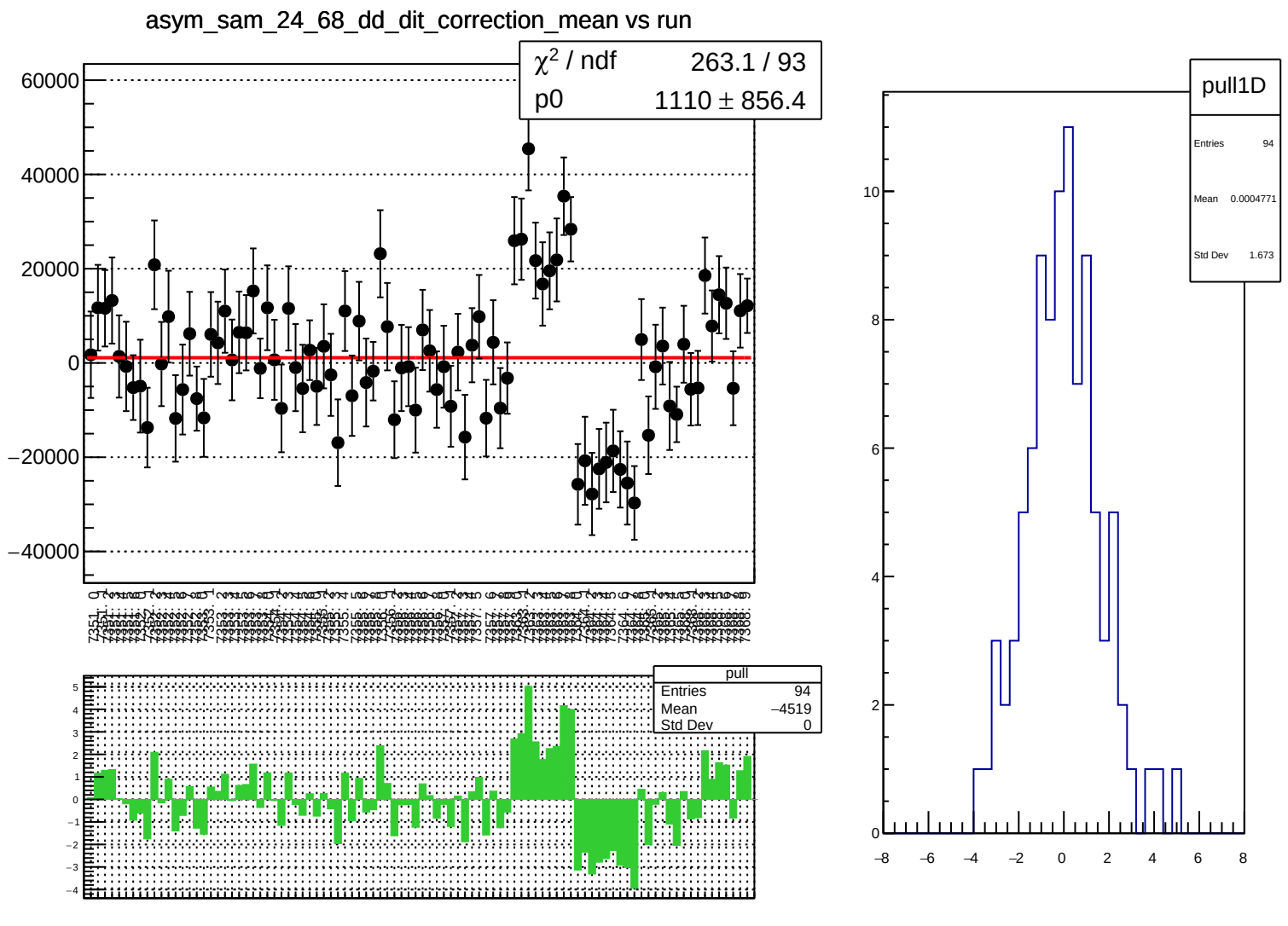

asym_sam_24_68_dd_eigen_cor_correction_mean vs run
χ² / ndf 260 / 93
p0 1004 ± 819.8
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −144.8
Std Dev 0
5
4
3
2
1
0
−1
−2
−3
−4

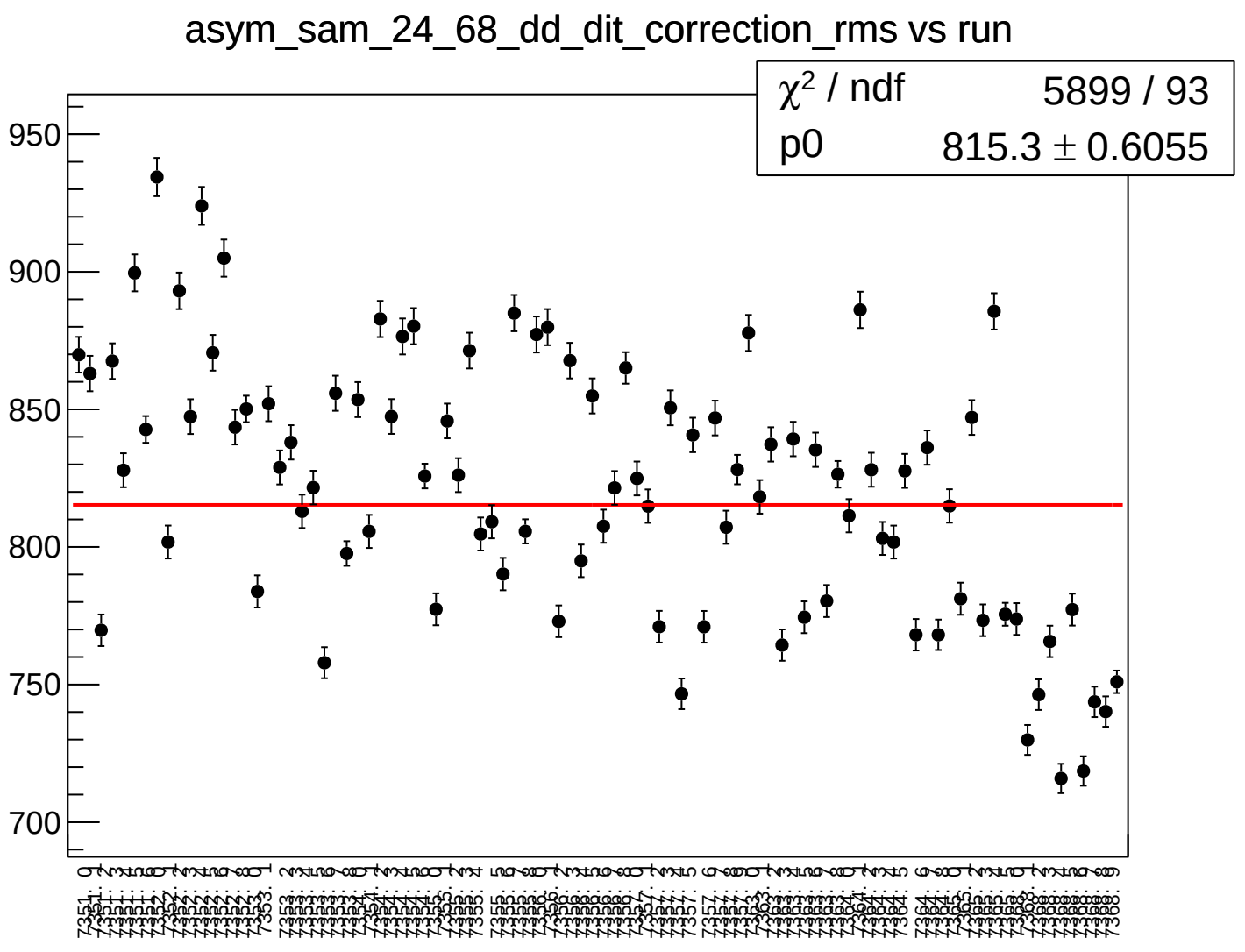

pull1D
Entries 94
Mean 0.00915
Std Dev 1.663
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

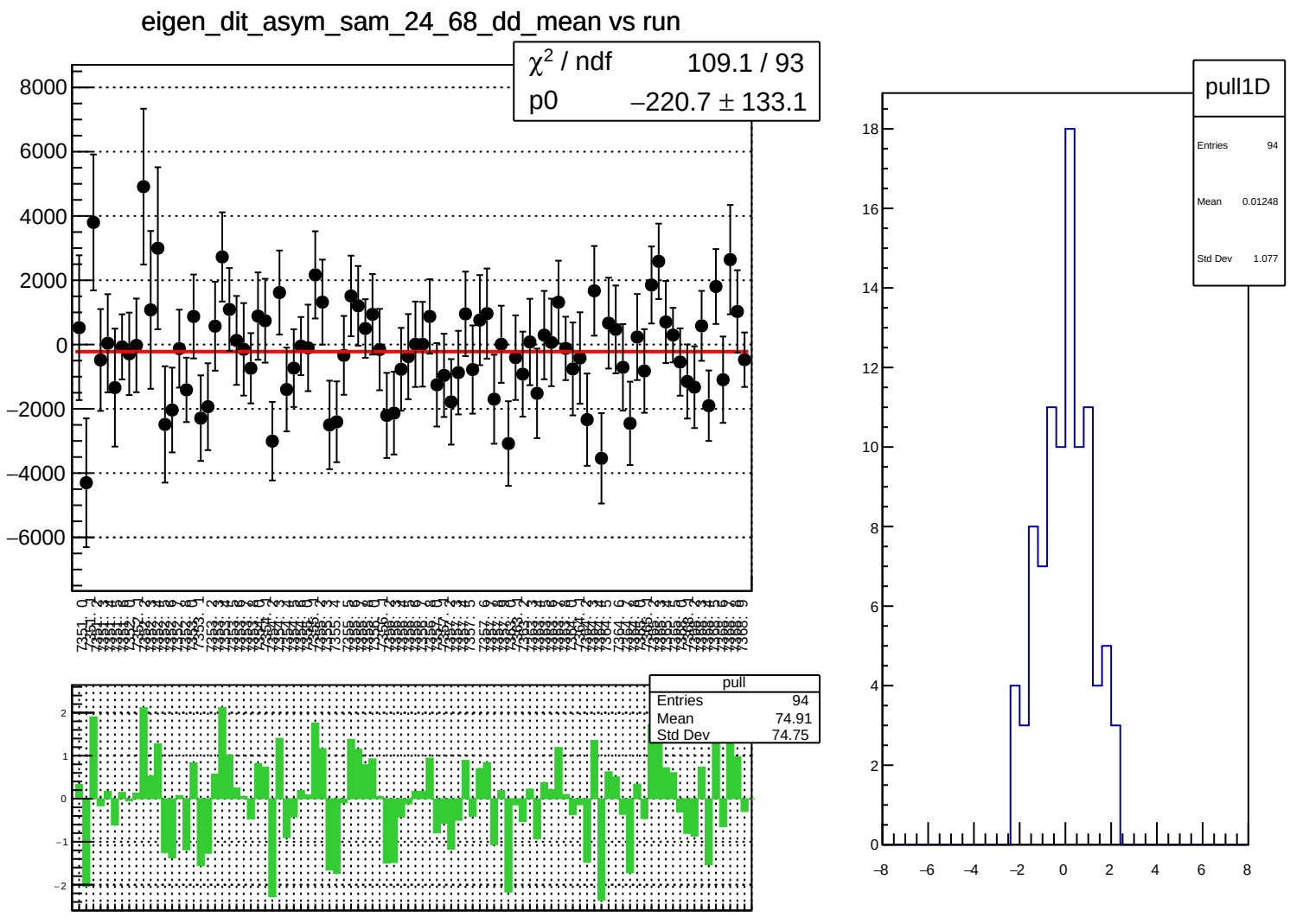

asym_sam_24_68_dd_eigen_cor_correction_rms vs run
χ² / ndf 5948 / 93
p0 780.5 ± 0.5797
900
850
800
750
700

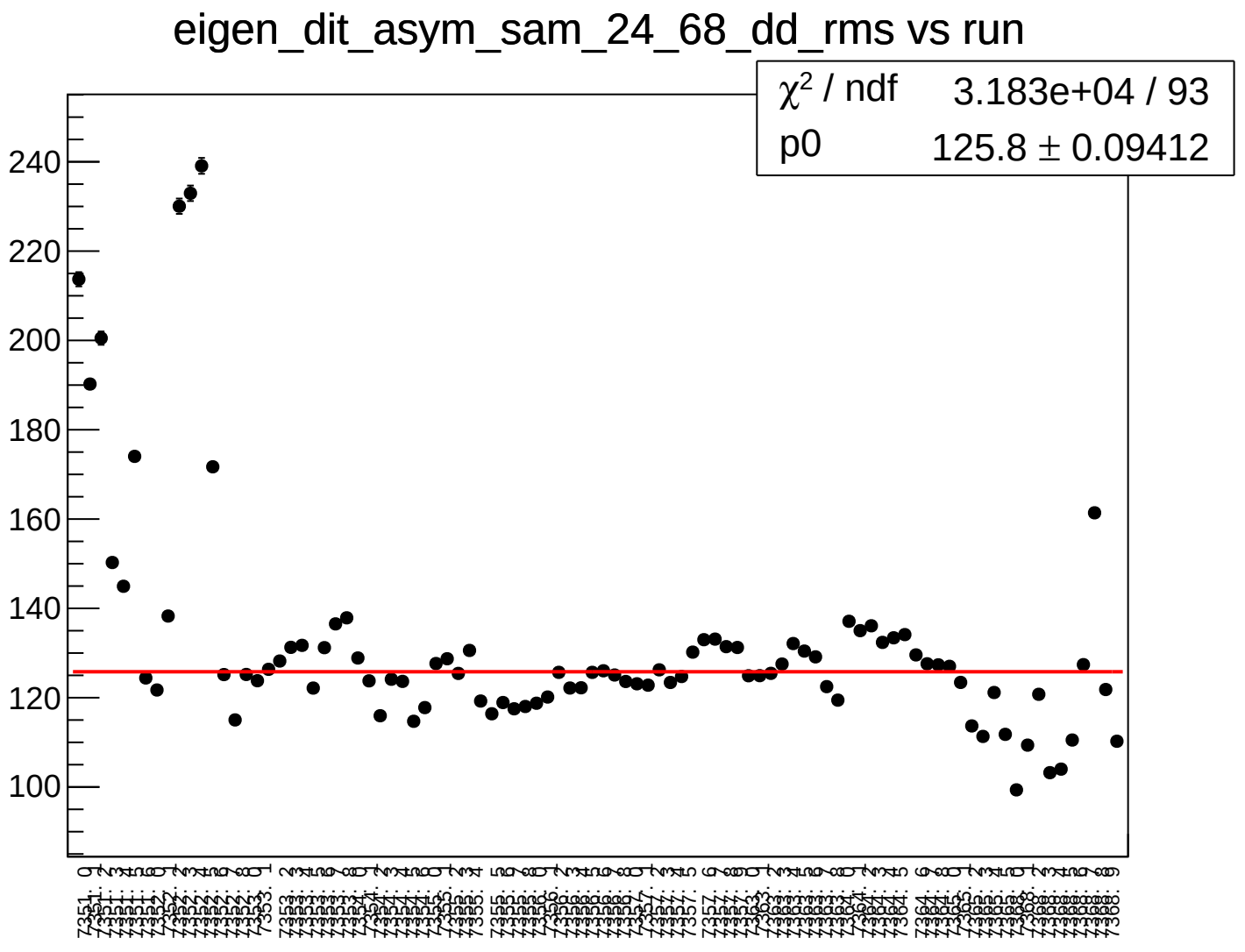

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 109.1 / 93
p0 −220.6 ± 133.1
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean 74.9
Std Dev 74.76
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.01248
Std Dev 1.077
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

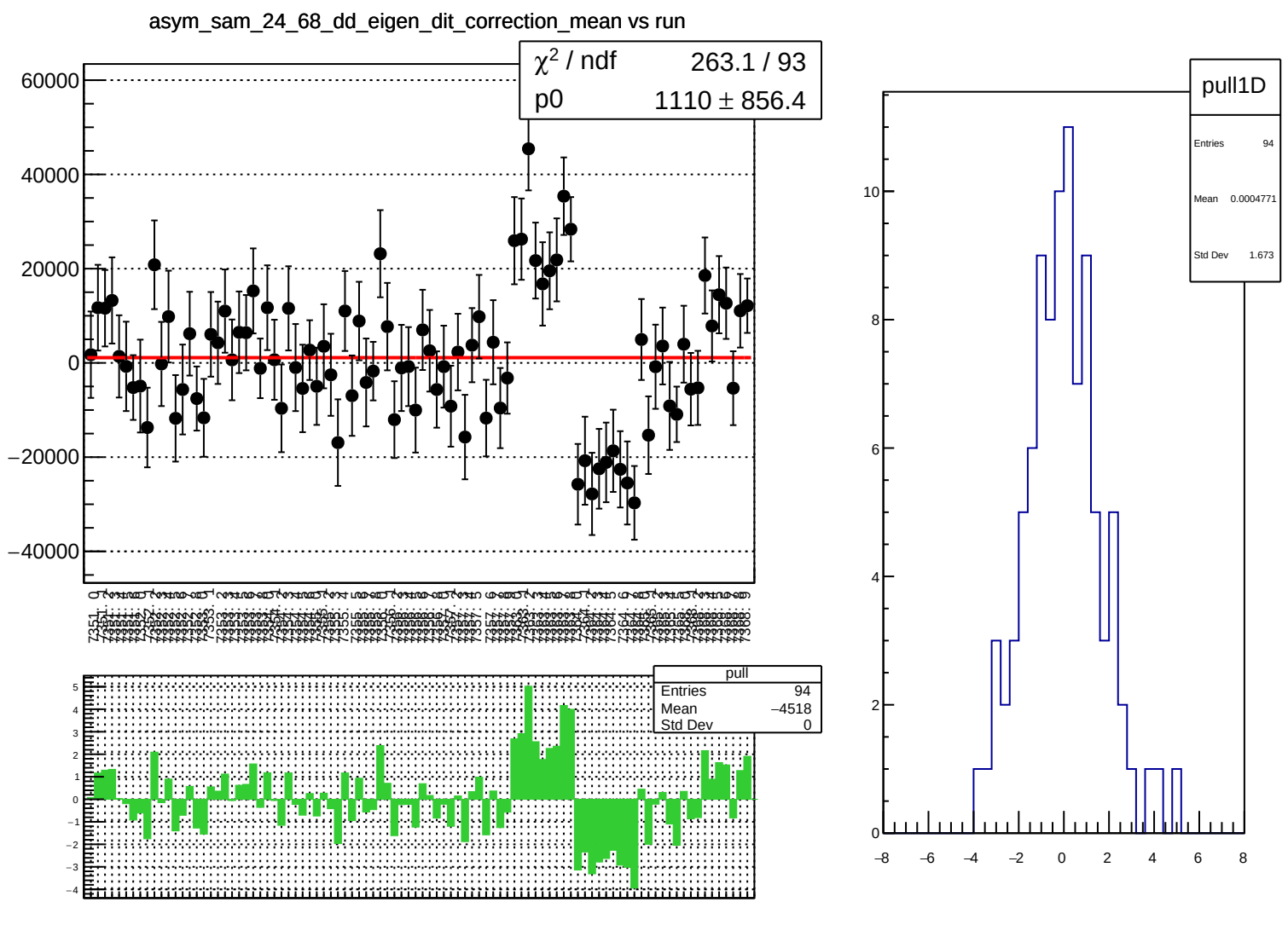

dit_asym_sam_24_68_dd_rms vs run
χ^2 / ndf 3.183e+04 / 93
p0 125.8 ± 0.09412
240
220
200
180
160
140
120
100

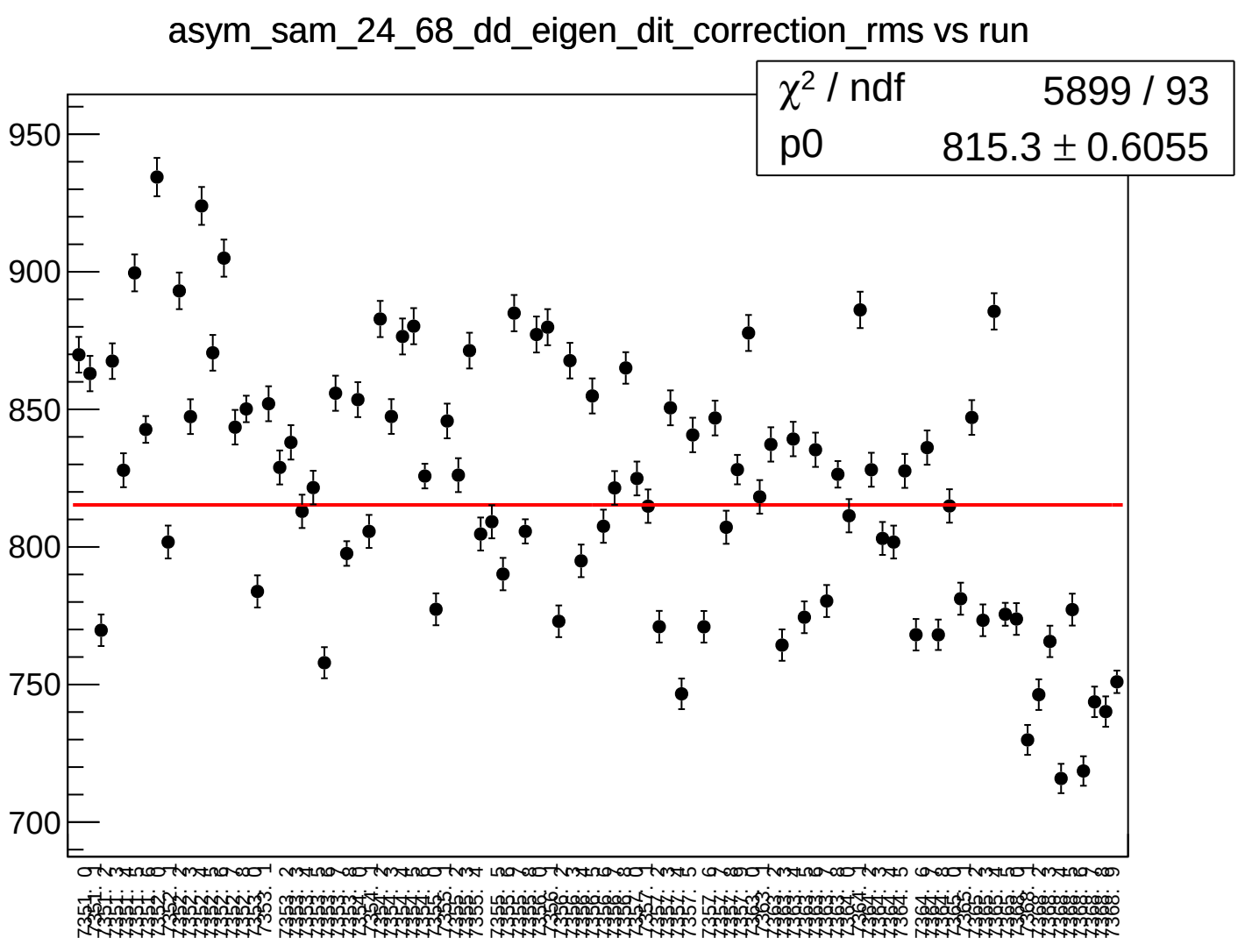

asym_sam_24_68_dd_dit_correction_mean vs run
χ² / ndf 263.1 / 93
p0 1110 ± 856.4
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −4519
Std Dev 0
5
4
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 94
Mean 0.0004771
Std Dev 1.673
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

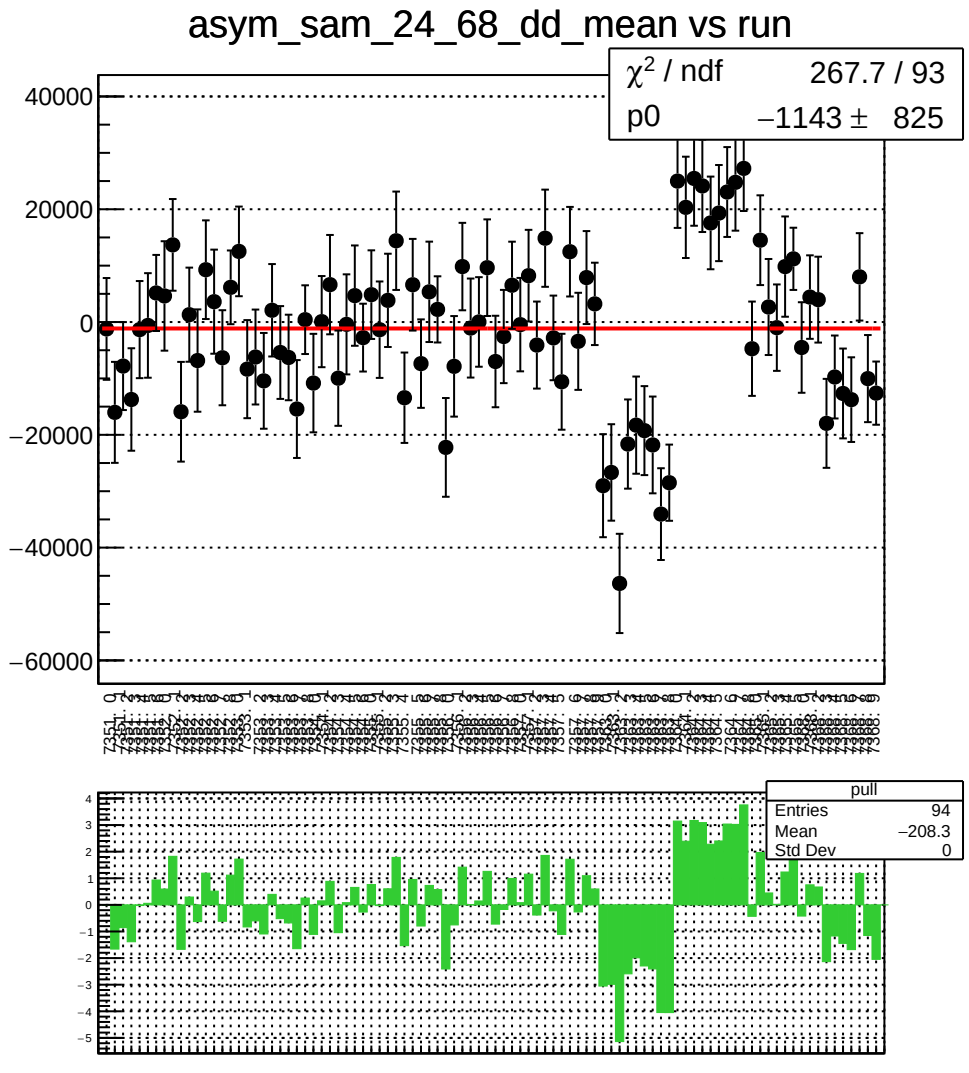

asym_sam_24_68_dd_dit_correction_rms vs run
χ² / ndf 5899 / 93
p0 815.3 ± 0.6055
950
900
850
800
750
700

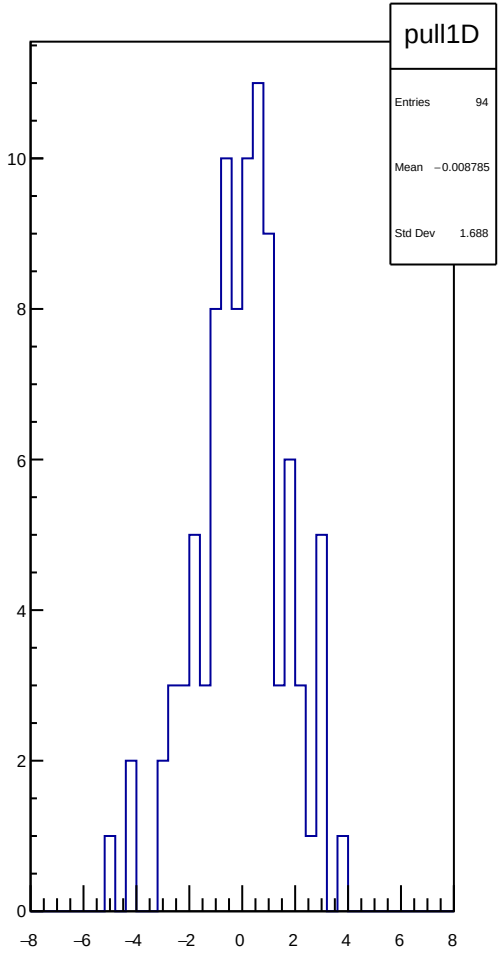

eigen_dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 109.1 / 93
p0 −220.7 ± 133.1
pull
Entries 94
Mean 74.91
Std Dev 74.75
pull1D
Entries 94
Mean 0.01248
Std Dev 1.077

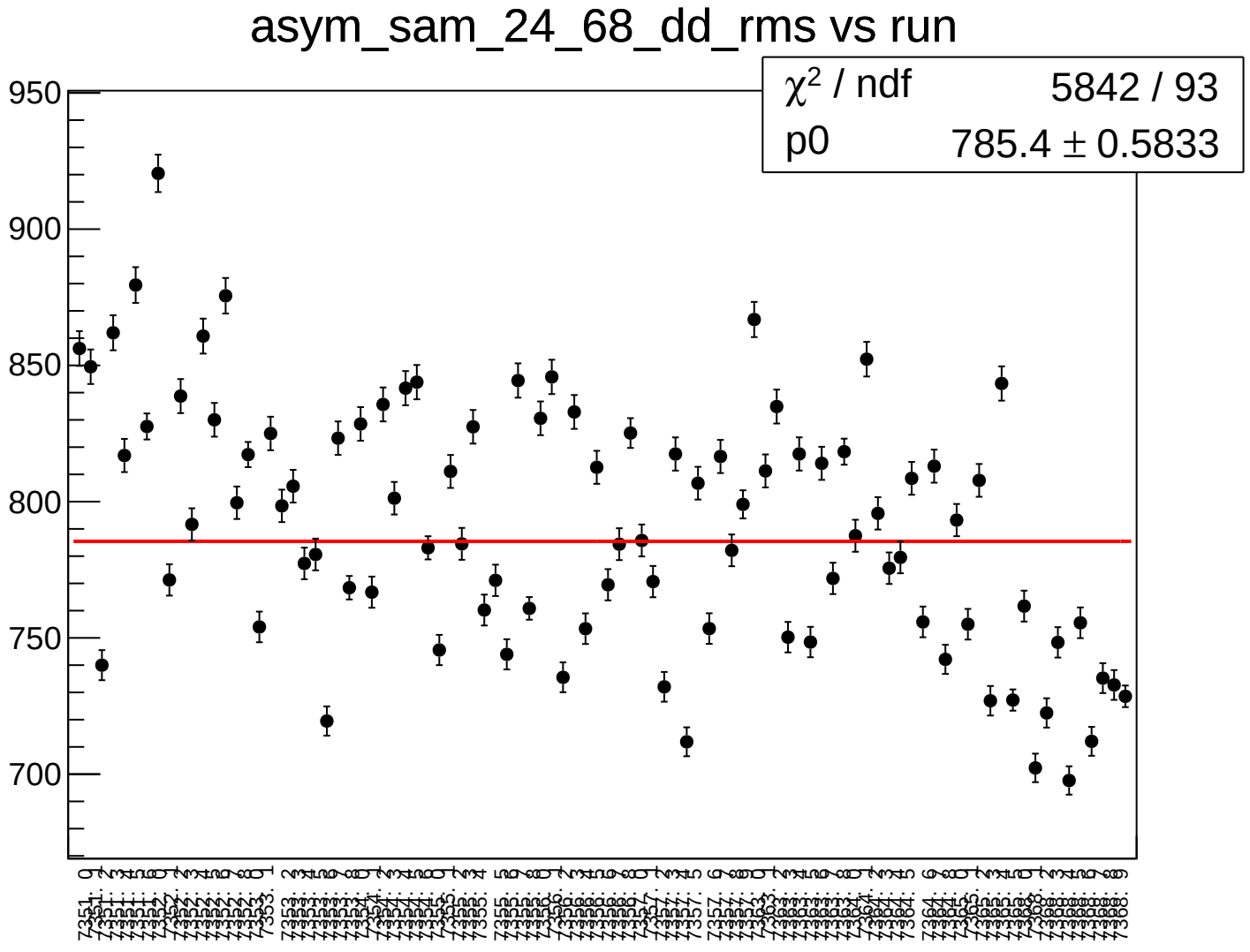

eigen_dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 3.183e+04 / 93
p0 125.8 ± 0.09412
240
220
200
180
160
140
120
100

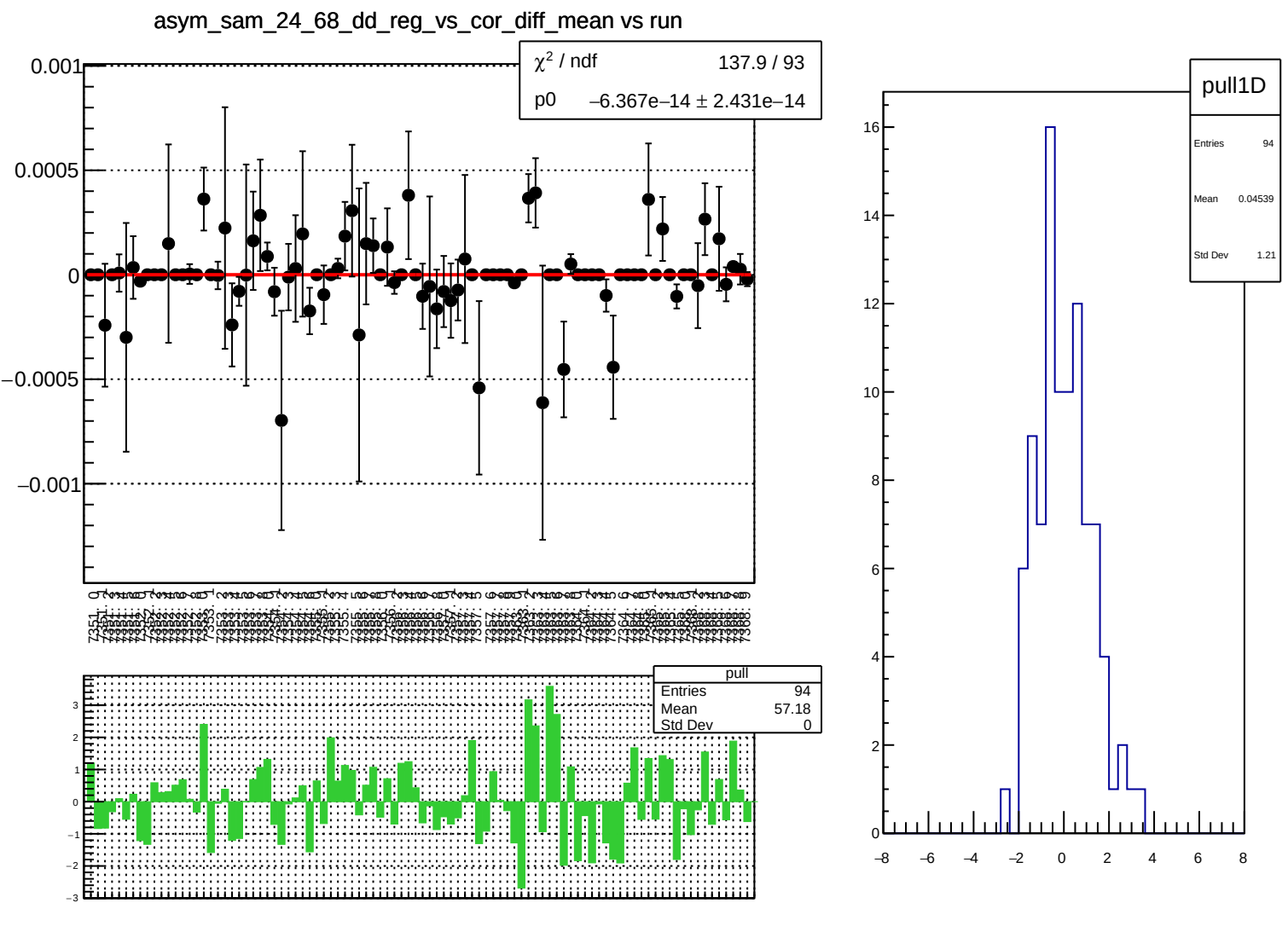

asym_sam_24_68_dd_eigen_dit_correction_mean vs run
χ² / ndf 263.1 / 93
p0 1110 ± 856.4
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −4518
Std Dev 0
5
4
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 94
Mean 0.0004771
Std Dev 1.673
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

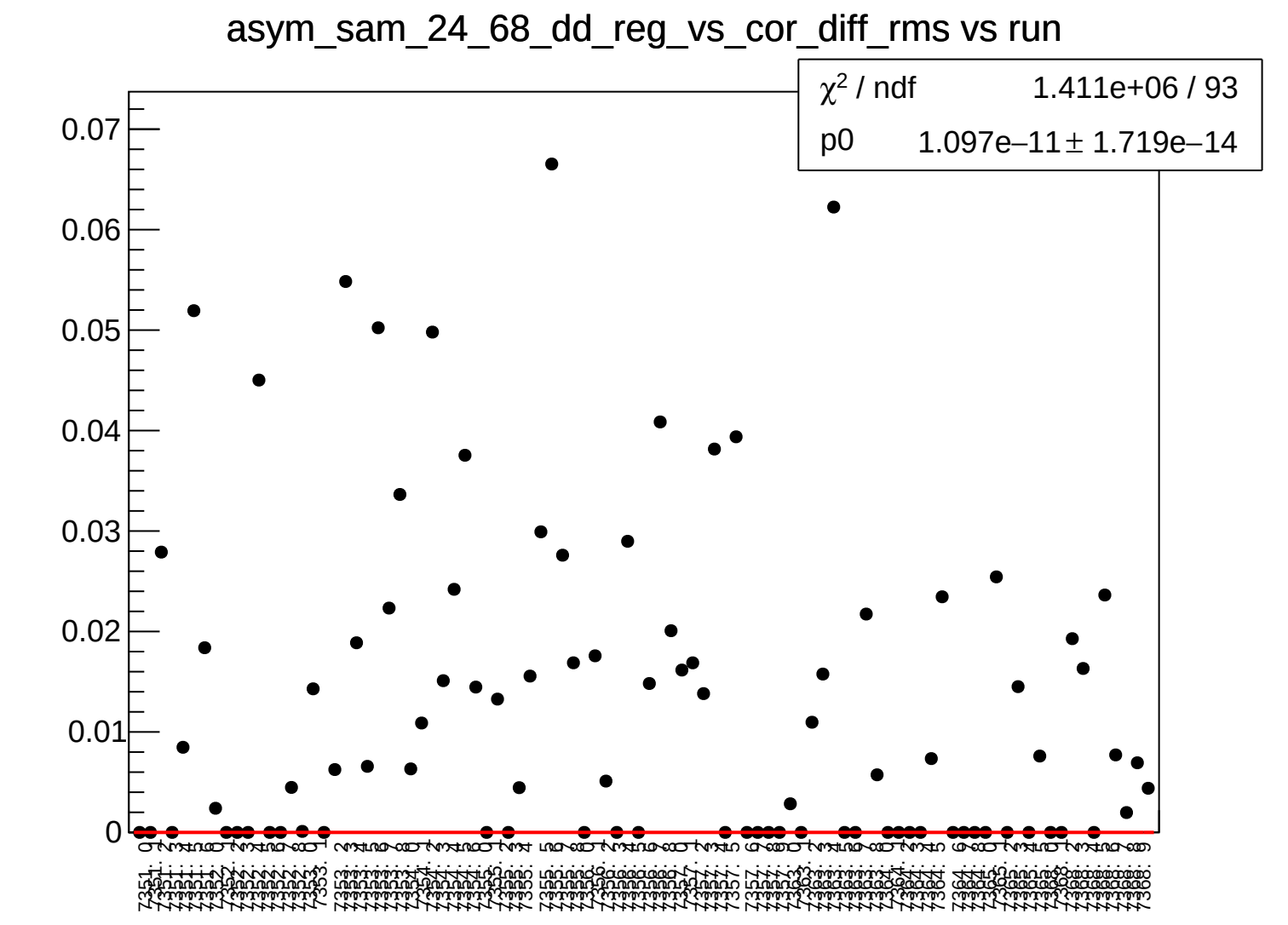

asym_sam_24_68_dd_eigen_dit_correction_rms vs run
χ² / ndf 5899 / 93
p0 815.3 ± 0.6055
950
900
850
800
750
700

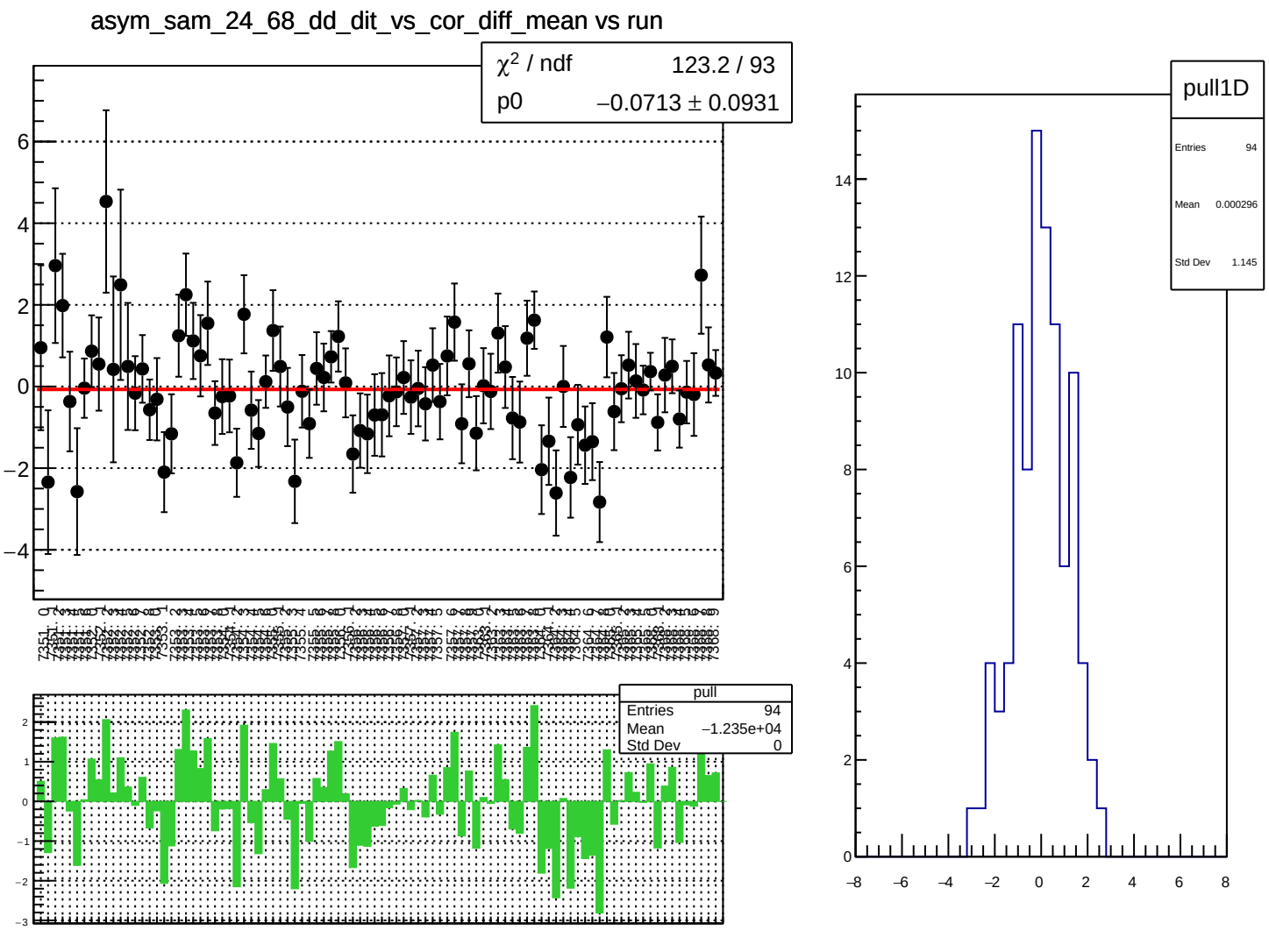

asym_sam_24_68_dd_mean vs run
χ² / ndf 267.7 / 93
p0 −1143 ± 825
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −208.3
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4
−5

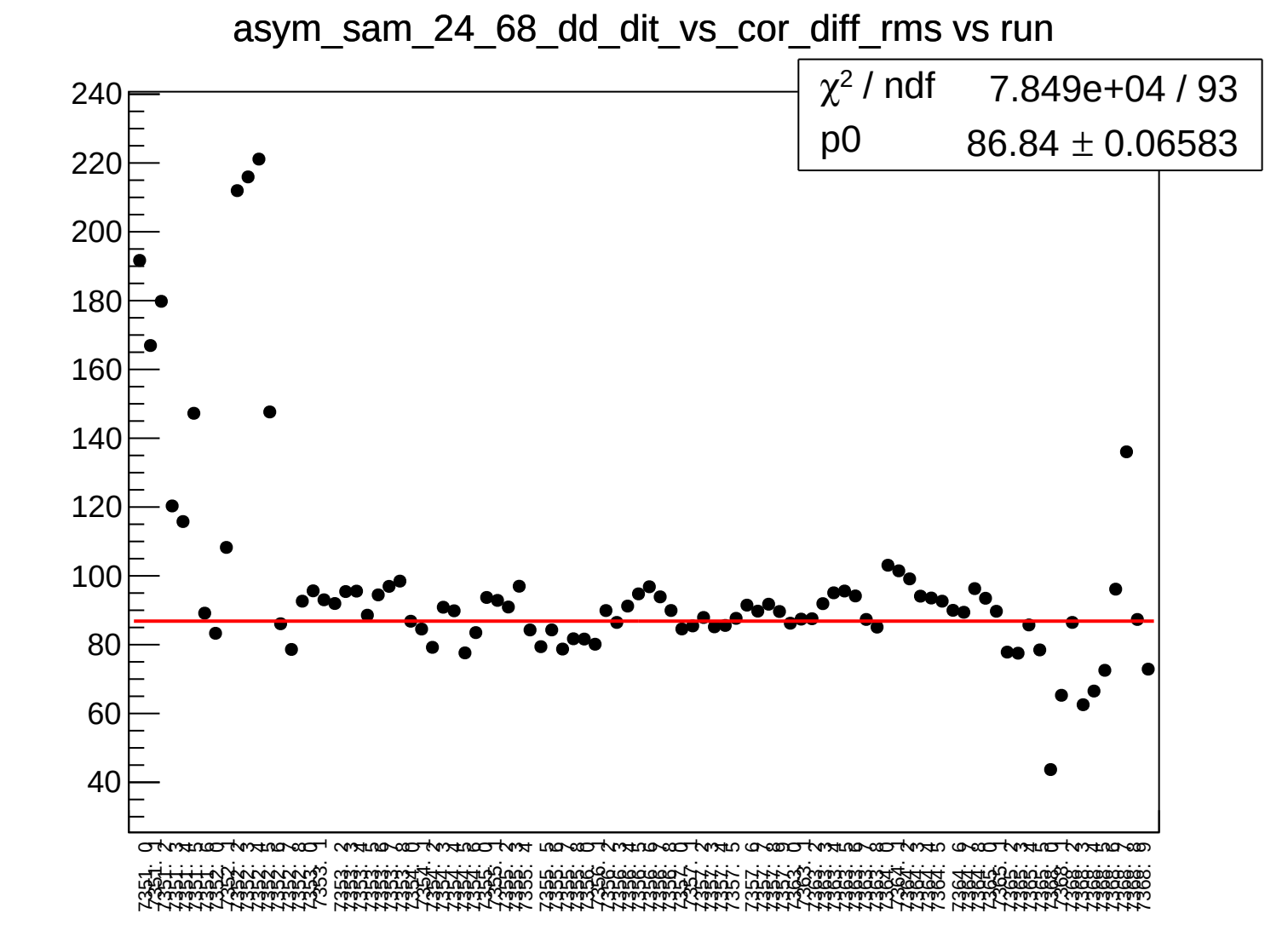

pull1D
Entries 94
Mean −0.008785
Std Dev 1.688
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

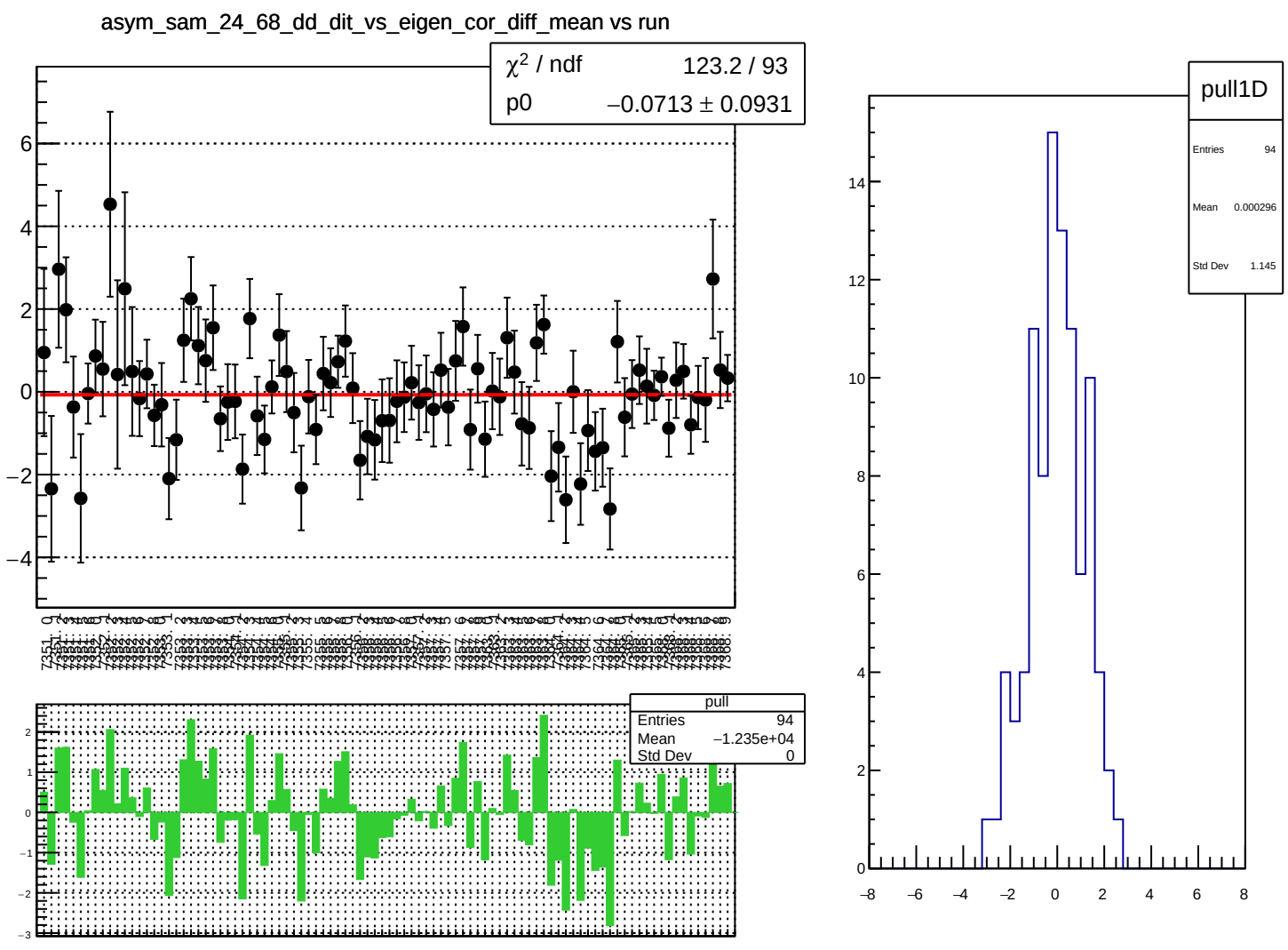

asym_sam_24_68_dd_rms vs run
χ² / ndf 5842 / 93
p0 785.4 ± 0.5833
950
900
850
800
750
700

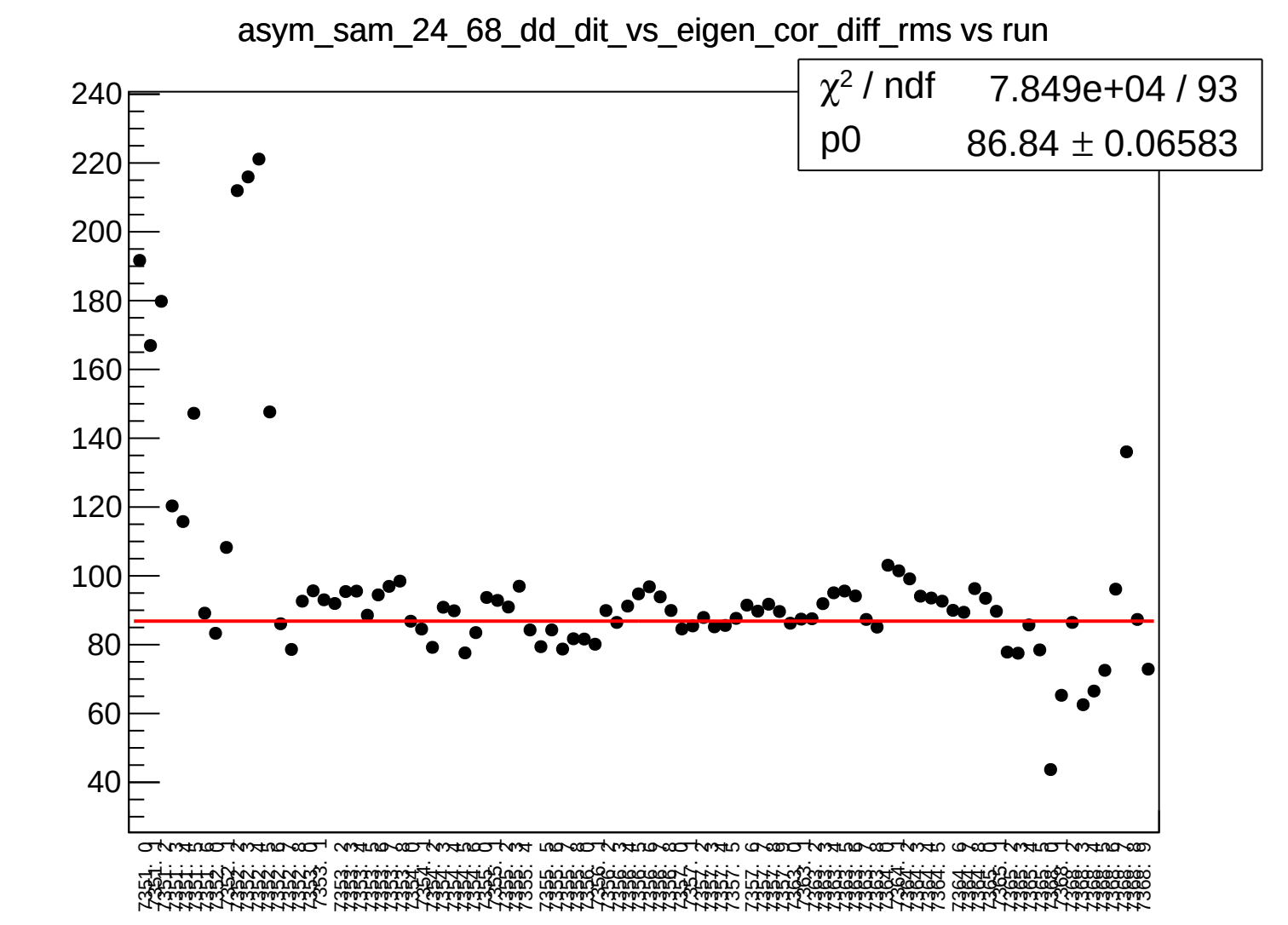

asym_sam_24_68_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 137.9 / 93
p0 −6.367e−14 ± 2.431e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 94
Mean 57.18
Std Dev 0
pull1D
Entries 94
Mean 0.04539
Std Dev 1.21

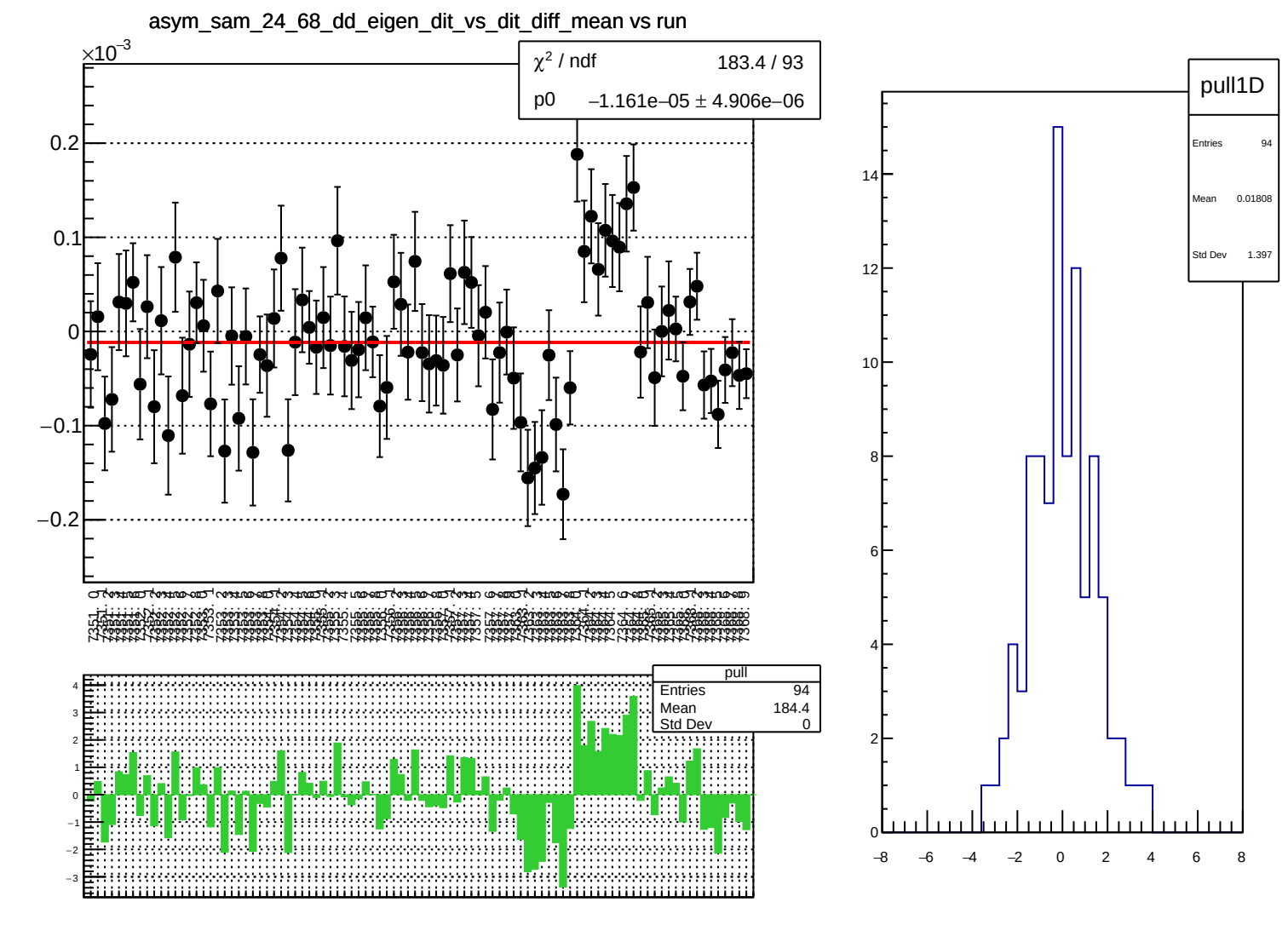

asym_sam_24_68_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.411e+06 / 93
p0 1.097e−11 ± 1.719e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

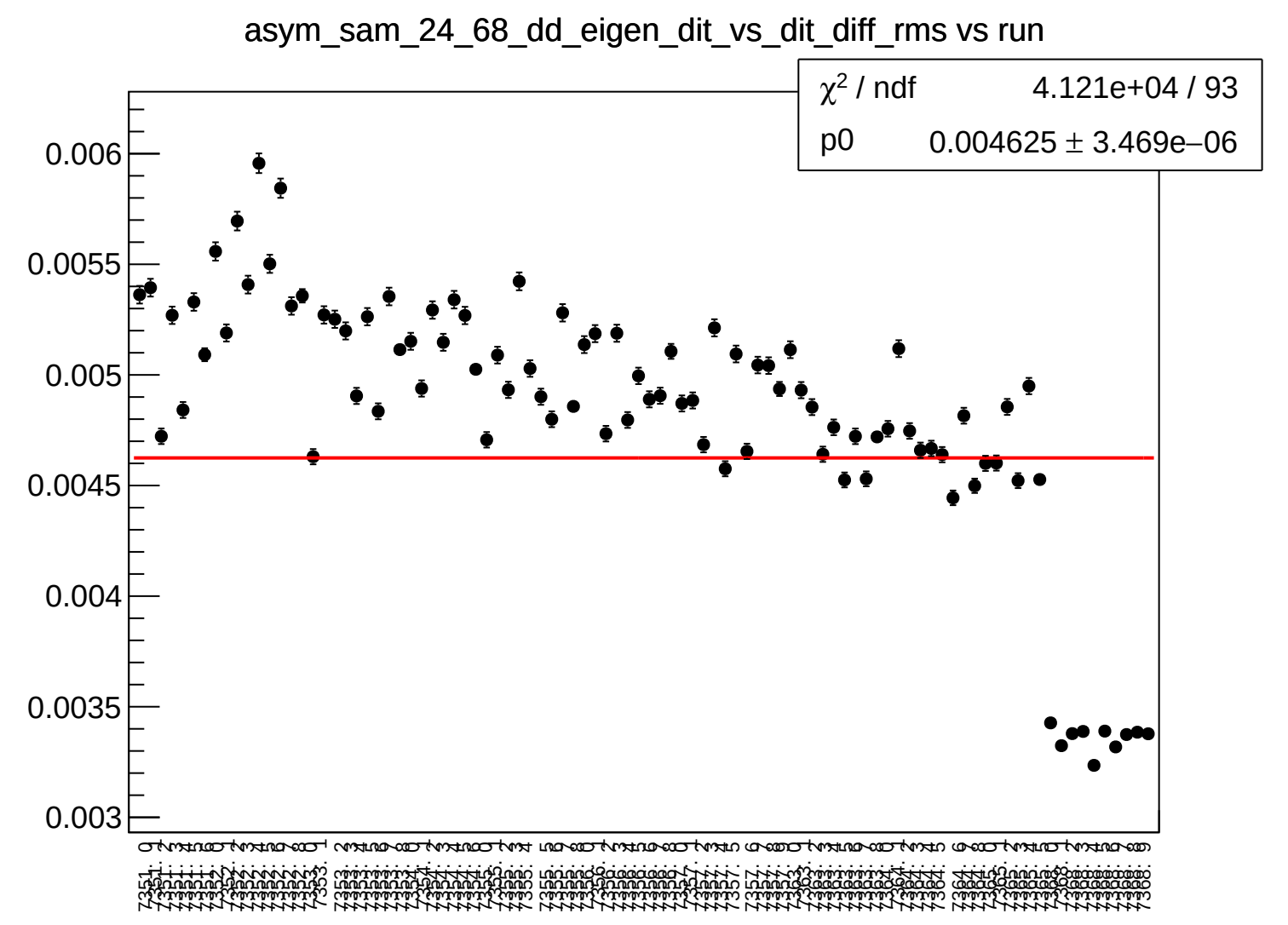

asym_sam_24_68_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 123.2 / 93
p0 −0.0713 ± 0.0931
pull
Entries 94
Mean −1.235e+04
Std Dev 0
pull1D
Entries 94
Mean 0.000296
Std Dev 1.145

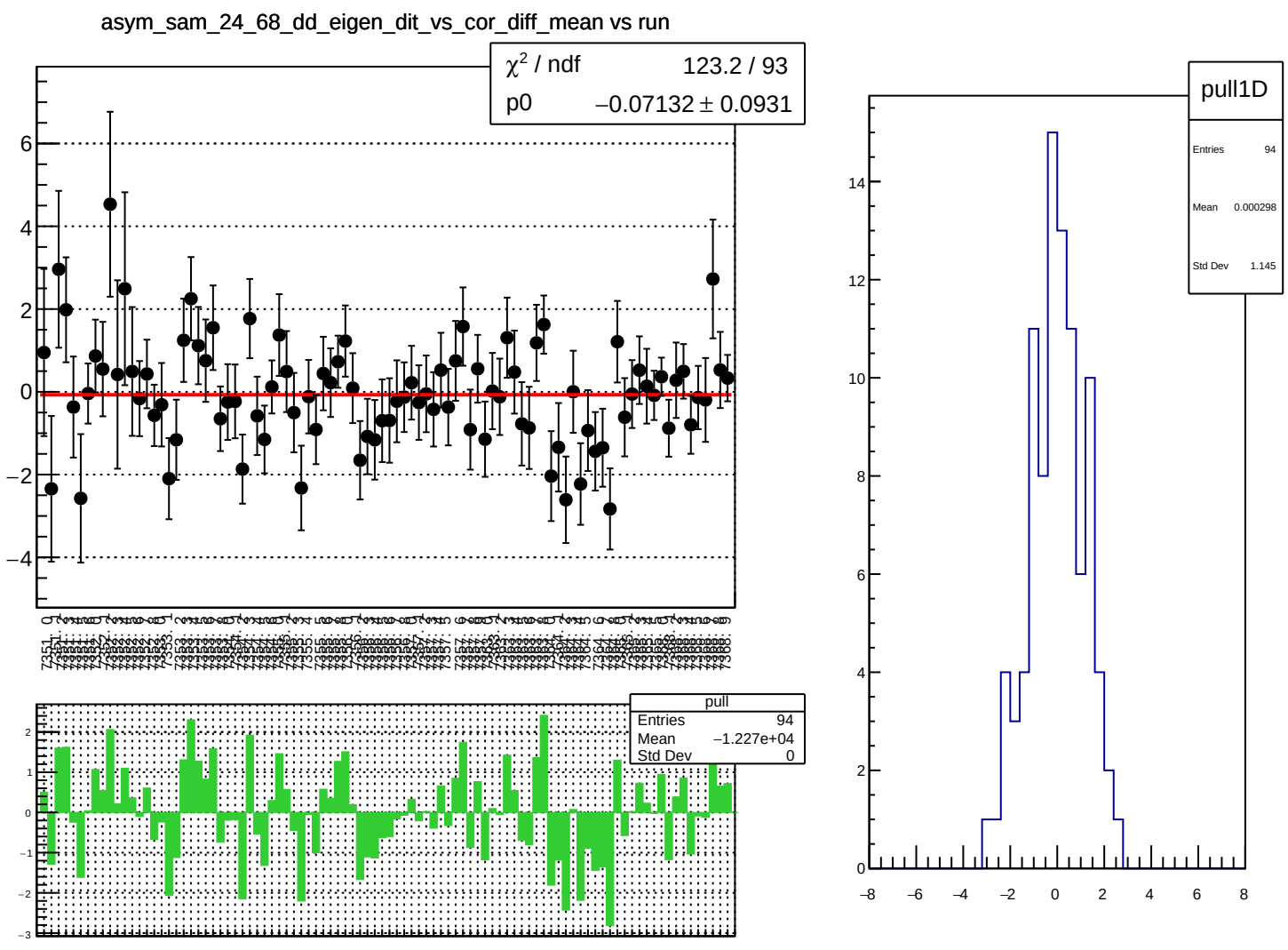

asym_sam_24_68_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7.849e+04 / 93
p0 86.84 ± 0.06583
240
220
200
180
160
140
120
100
80
60
40

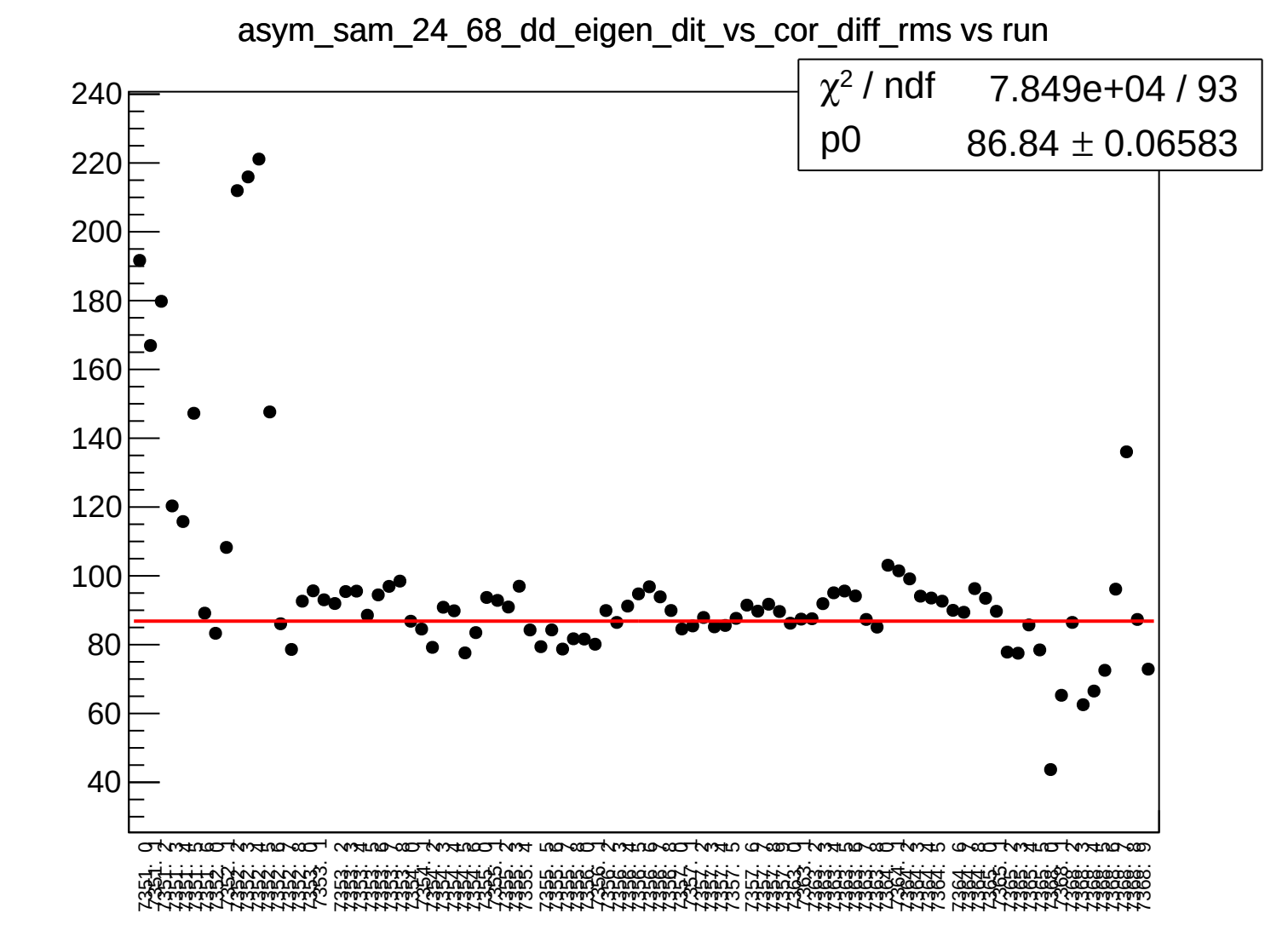

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 123.2 / 93
p0 −0.0713 ± 0.0931
pull
Entries 94
Mean −1.235e+04
Std Dev 0
pull1D
Entries 94
Mean 0.000296
Std Dev 1.145


asym_sam_24_68_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.849e+04 / 93
p0 86.84 ± 0.06583
240
220
200
180
160
140
120
100
80
60
40

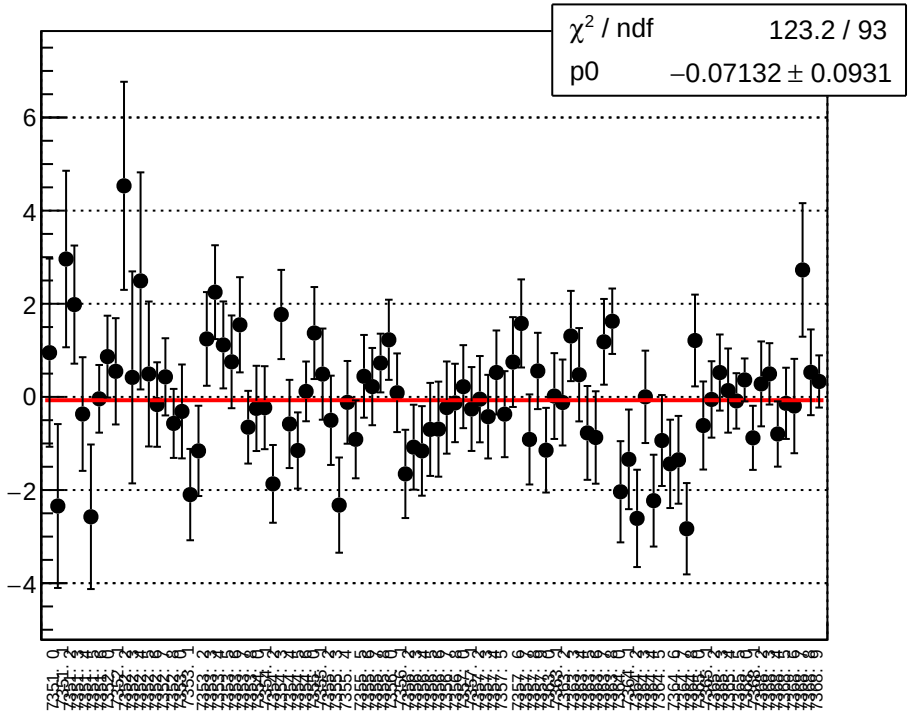

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 183.4 / 93
p0 −1.161e−05 ± 4.906e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 94
Mean 184.4
Std Dev 0
4
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.01808
Std Dev 1.397
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

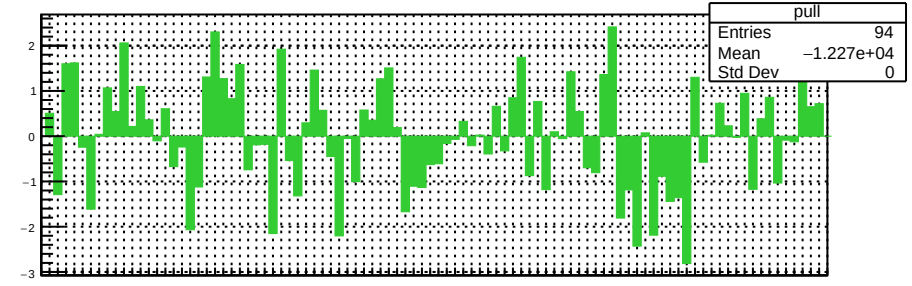

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.121e+04 / 93
p0 0.004625 ± 3.469e−06
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003

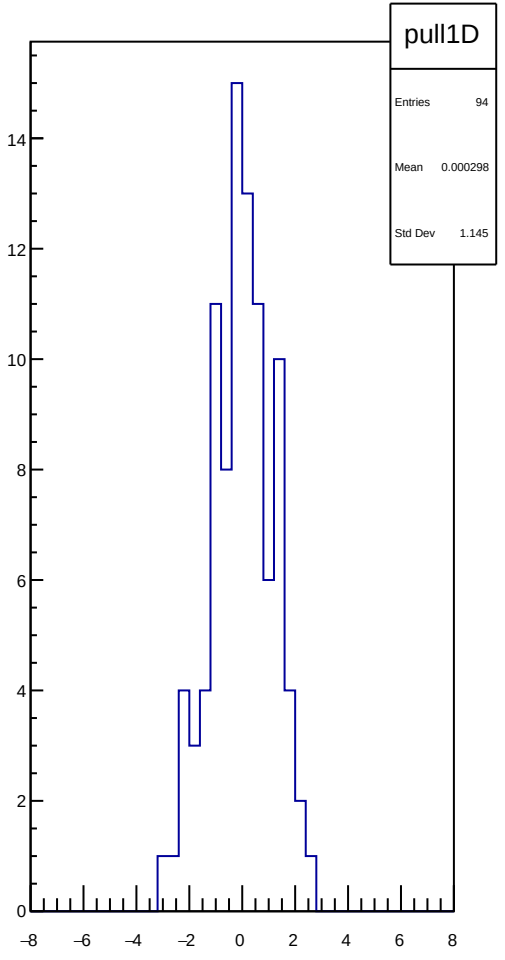

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 123.2 / 93
p0 −0.07132 ± 0.0931
pull
Entries 94
Mean −1.227e+04
Std Dev 0
pull1D
Entries 94
Mean 0.000298
Std Dev 1.145

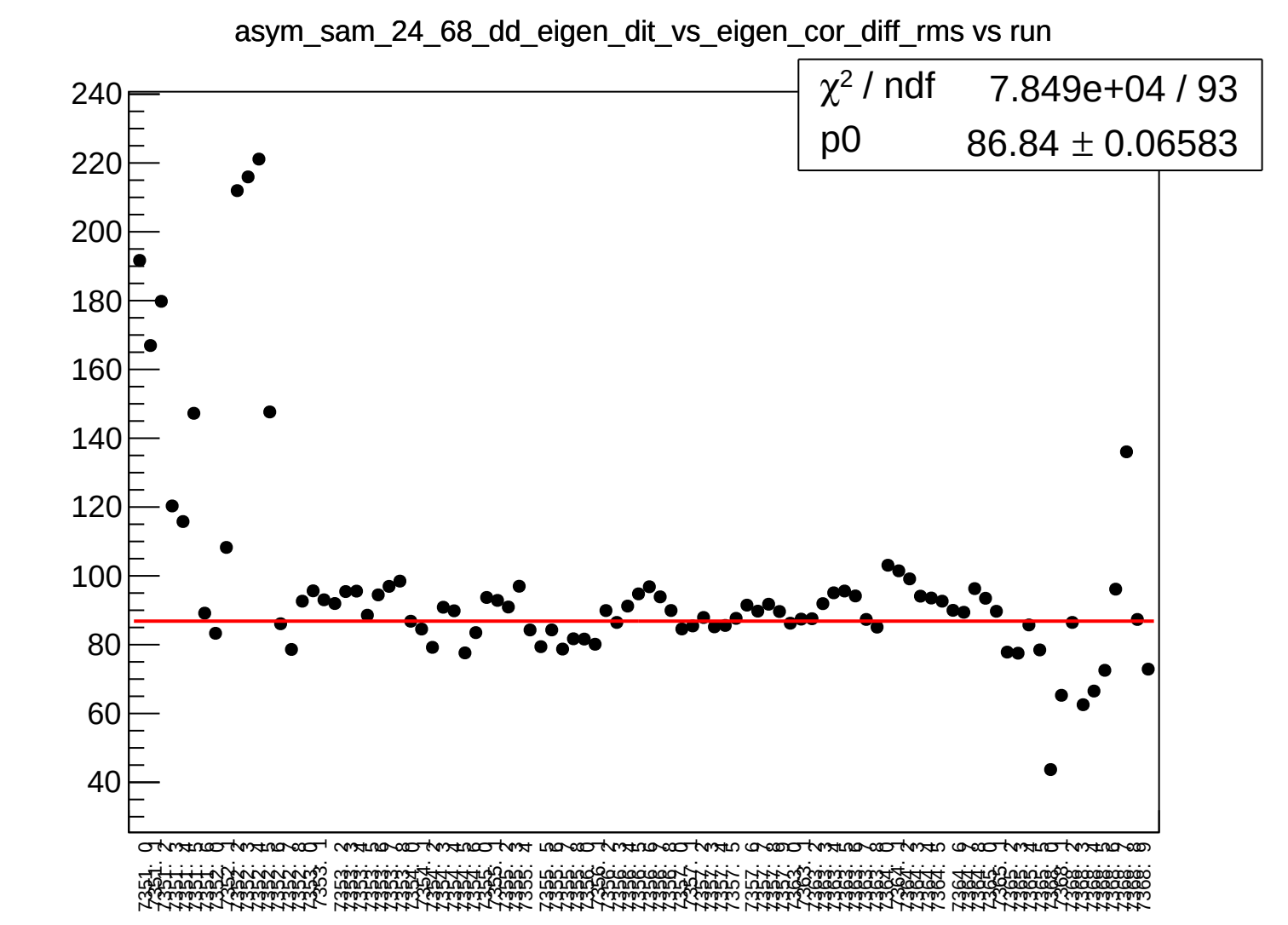

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.849e+04 / 93
p0 86.84 ± 0.06583
240
220
200
180
160
140
120
100
80
60
40

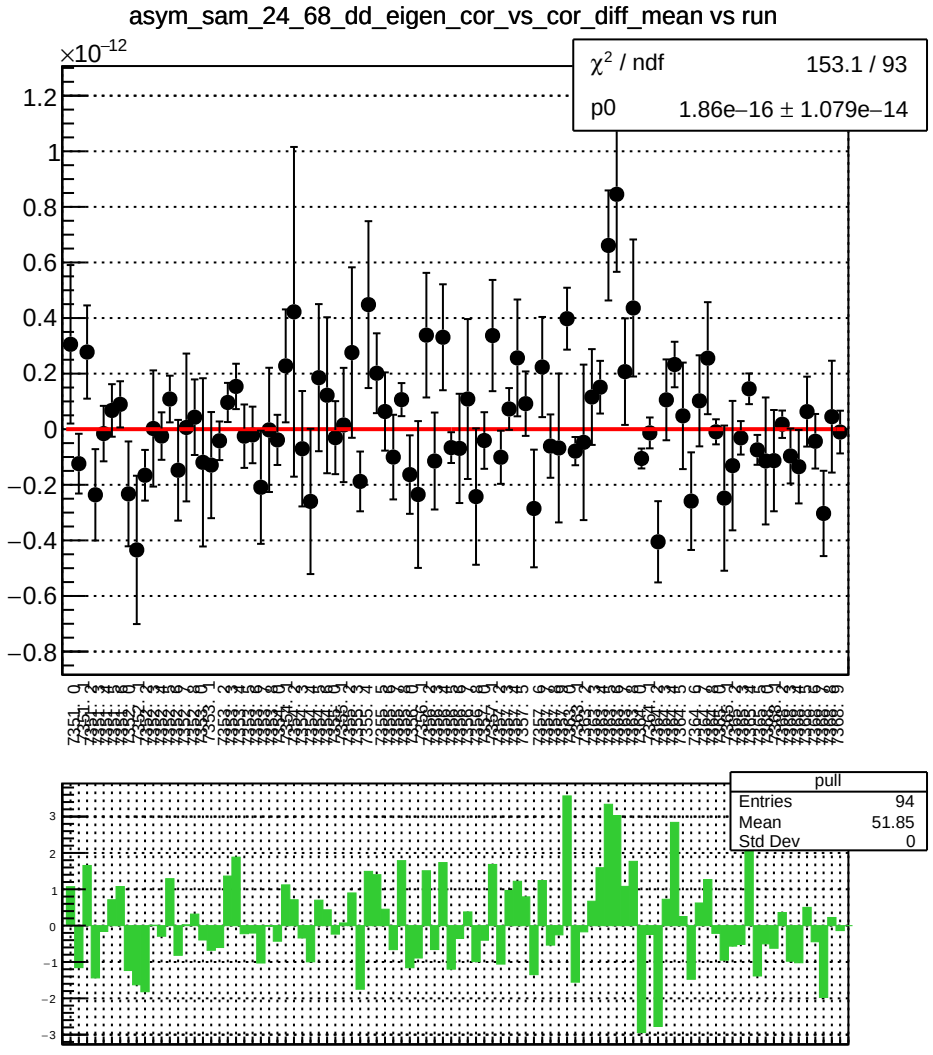
asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

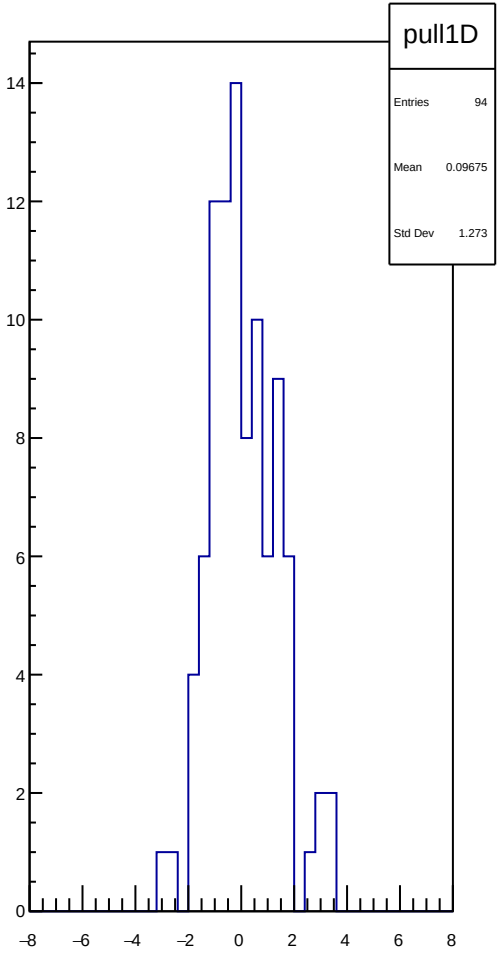


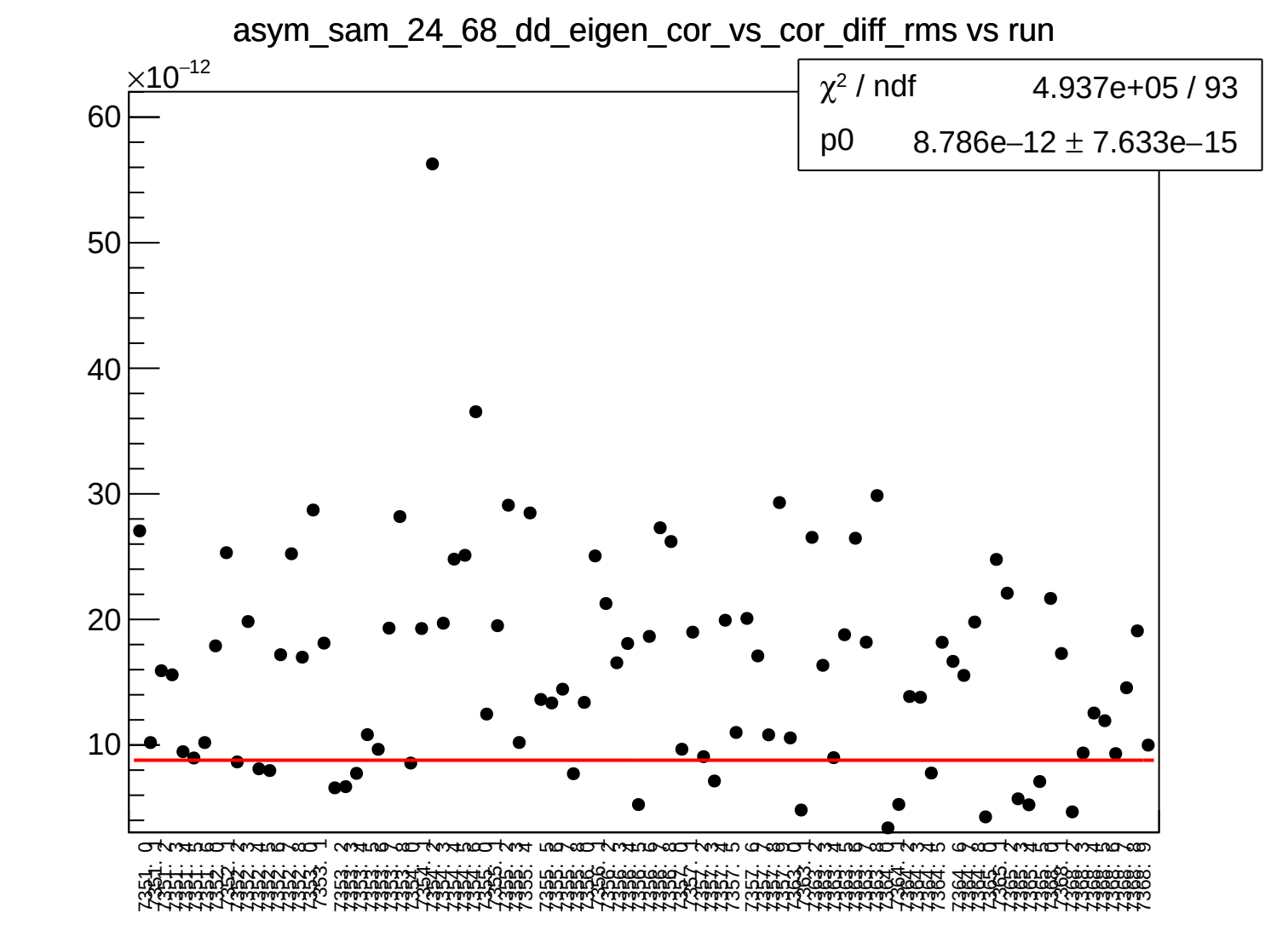


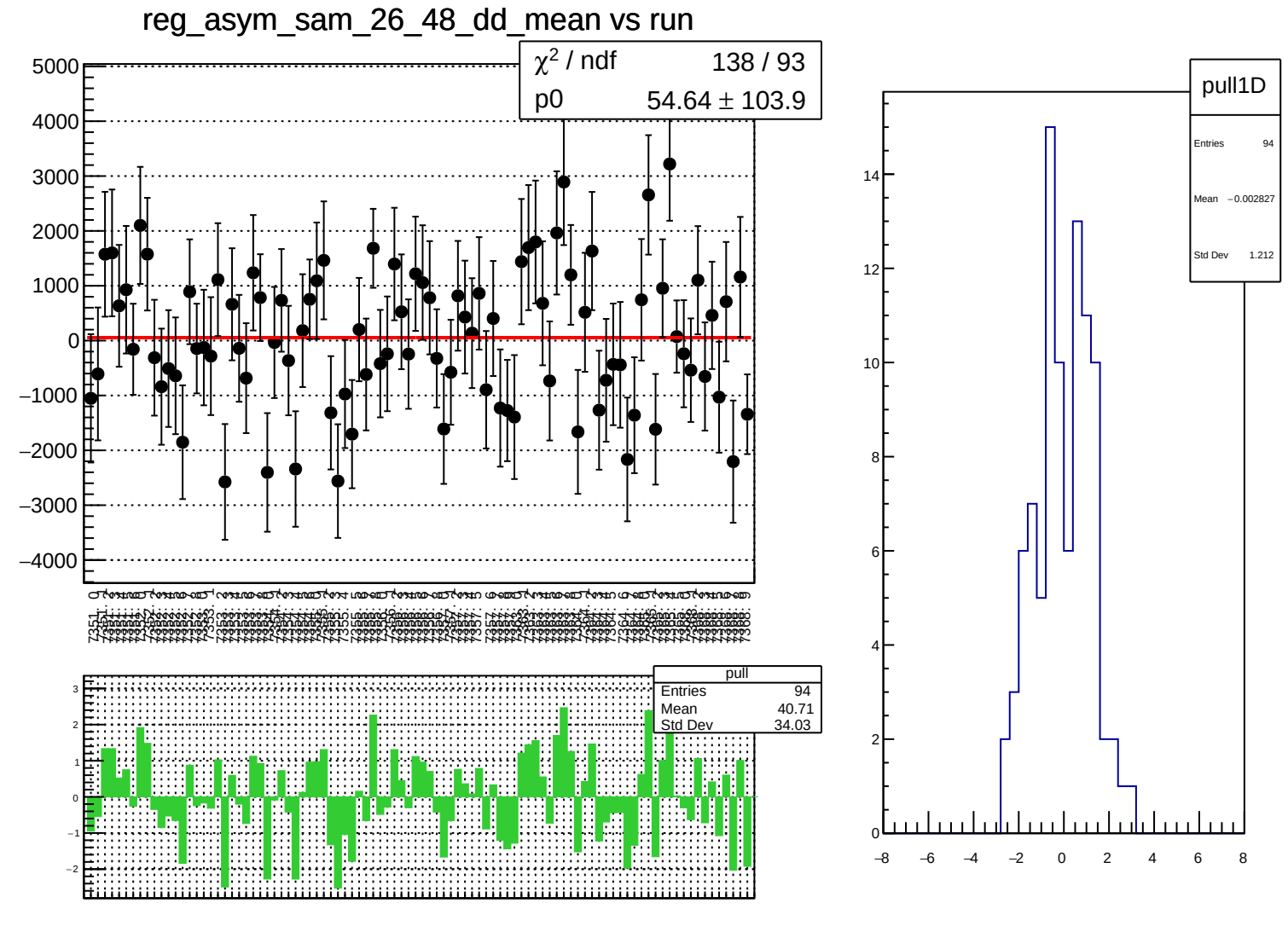


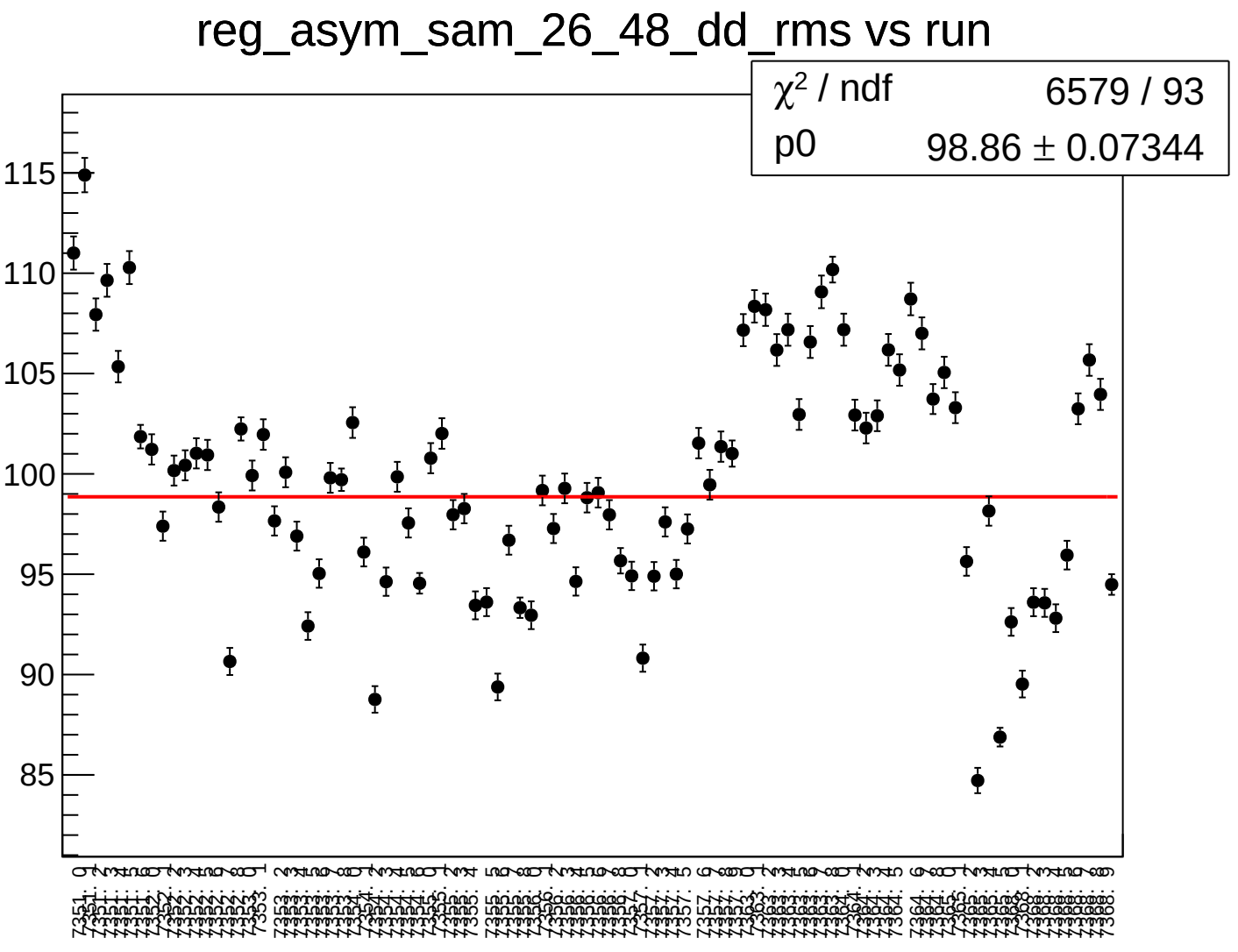

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.849e+04 / 93
p0 86.84 ± 0.06583
240
220
200
180
160
140
120
100
80
60
40

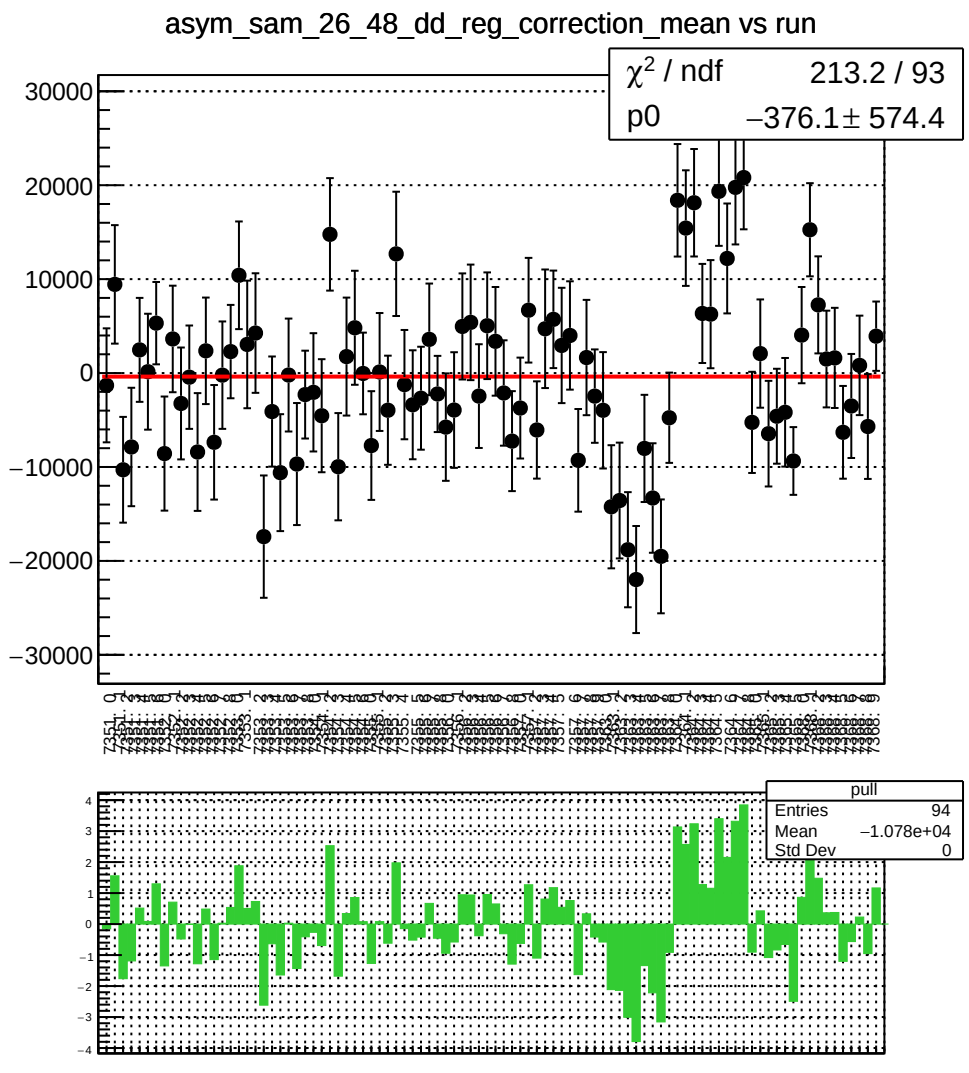

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 153.1 / 93
p0 1.86e−16 ± 1.079e−14
pull
Entries 94
Mean 51.85
Std Dev 0

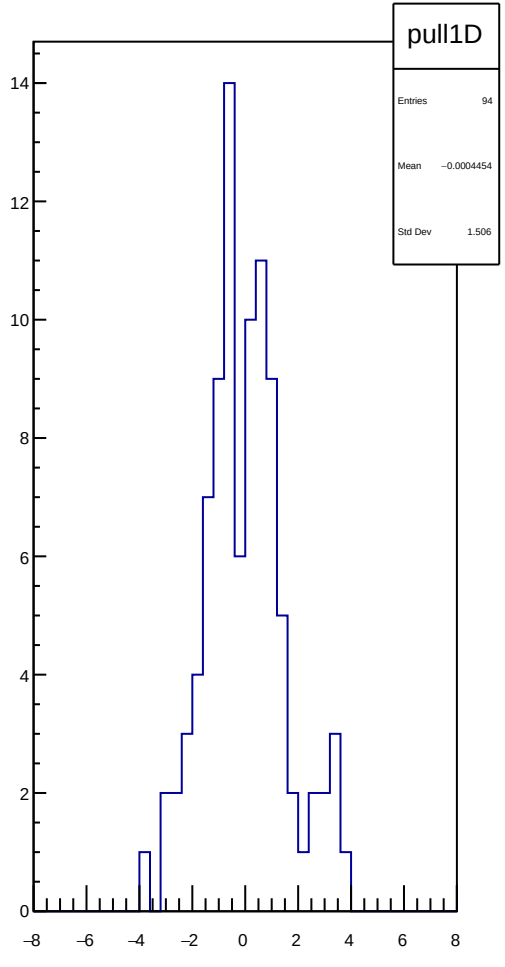

pull1D
Entries 94
Mean 0.09675
Std Dev 1.273

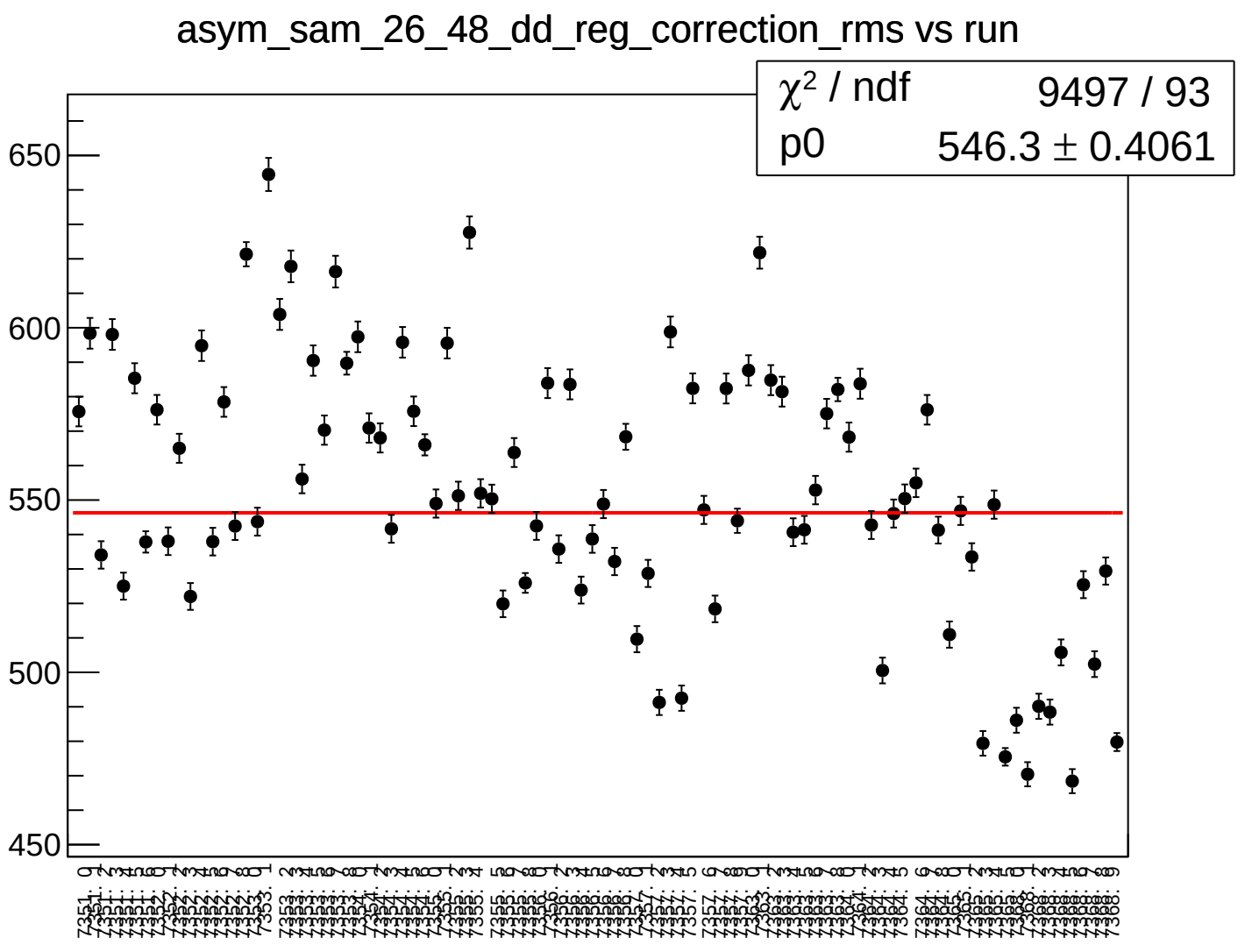

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
60
50
40
30
20
10
χ² / ndf 4.937e+05 / 93
p0 8.786e−12 ± 7.633e−15

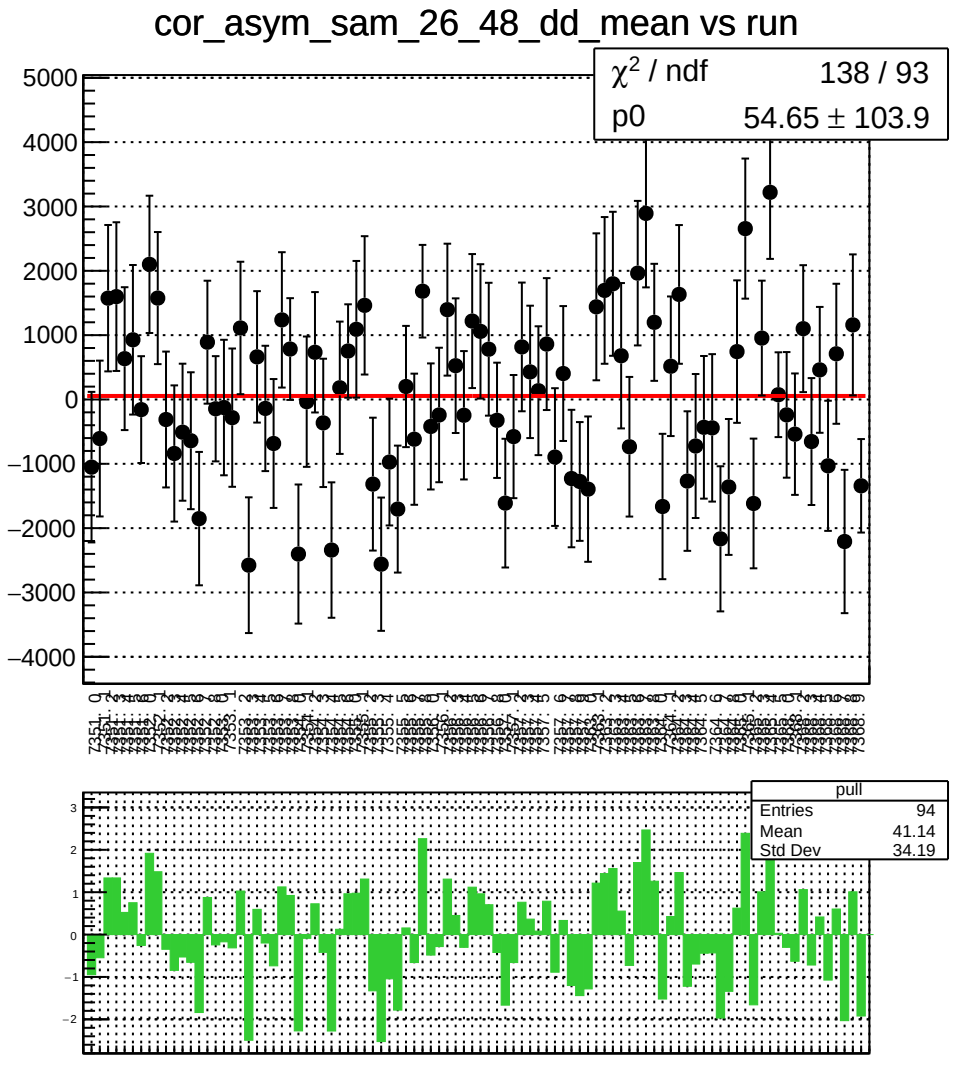

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 138 / 93
p0 54.64 ± 103.9
pull
Entries 94
Mean 40.71
Std Dev 34.03
pull1D
Entries 94
Mean −0.002827
Std Dev 1.212

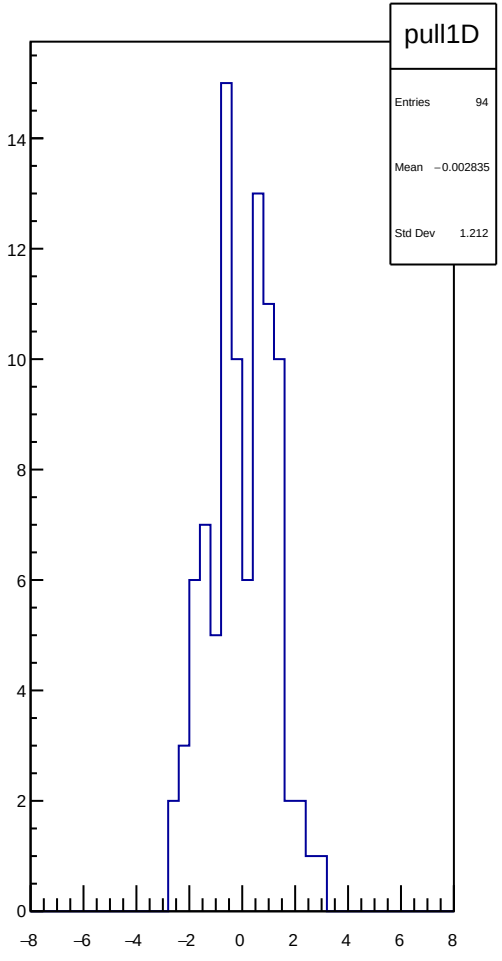

reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 6579 / 93
p0 98.86 ± 0.07344
115
110
105
100
95
90
85

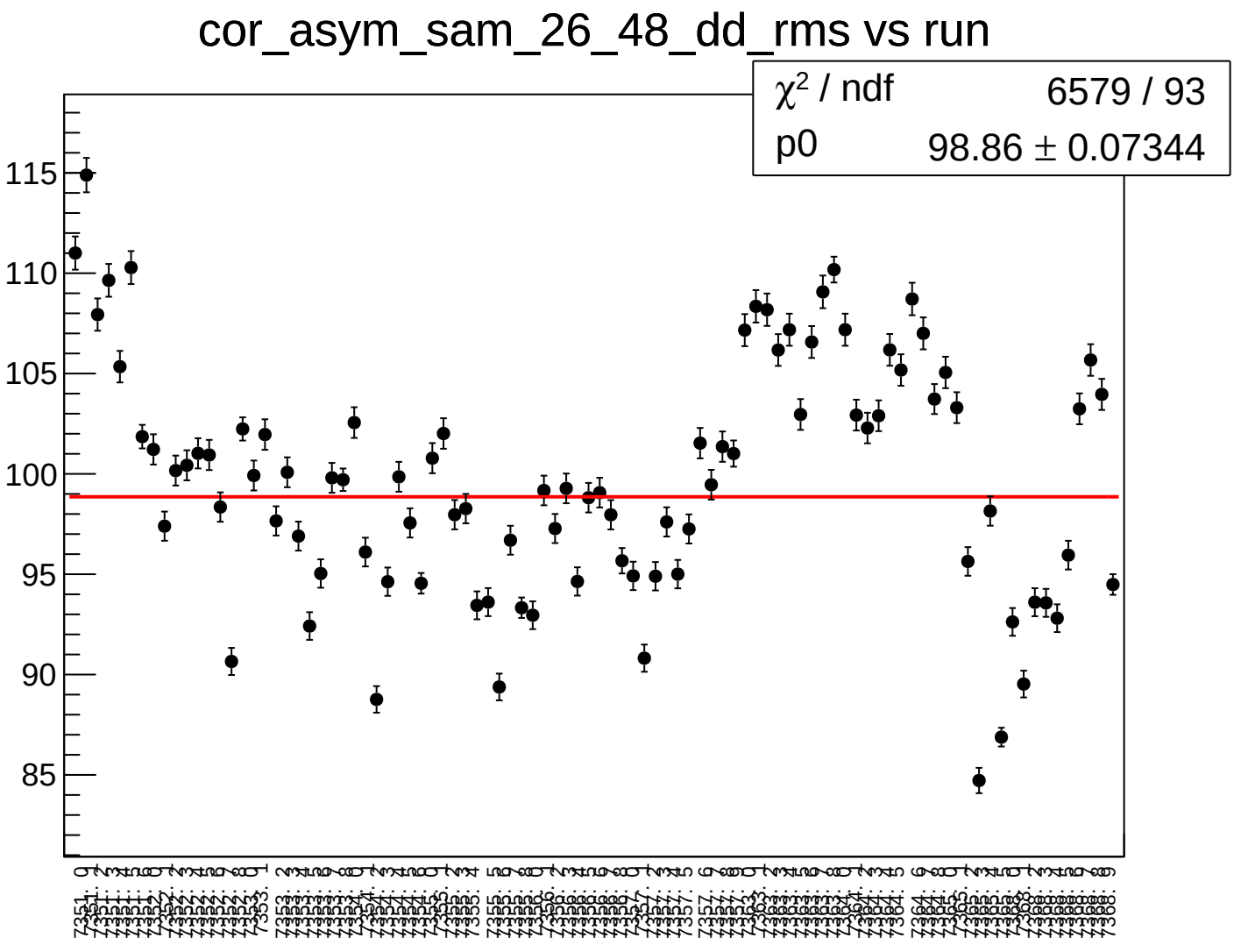

asym_sam_26_48_dd_reg_correction_mean vs run
χ² / ndf 213.2 / 93
p0 −376.1 ± 574.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −1.078e+04
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4

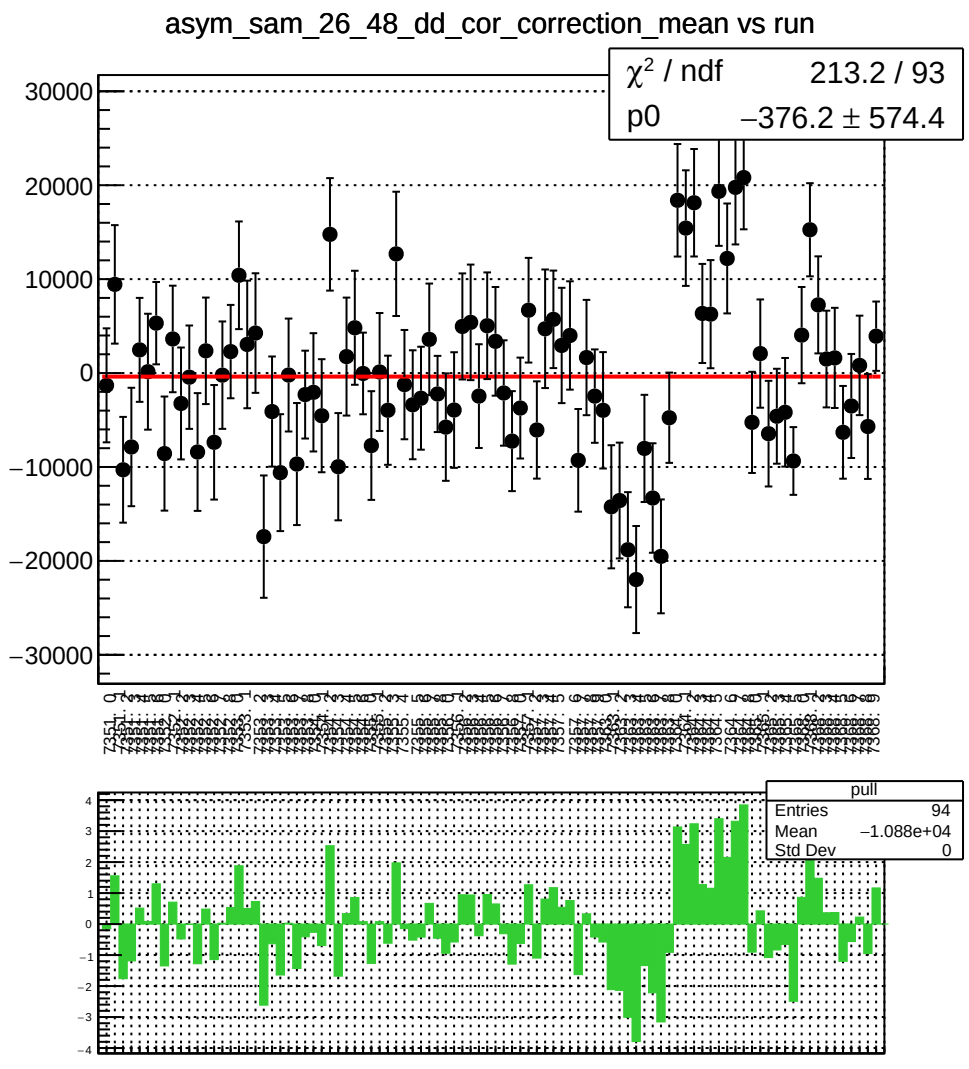

pull1D
Entries 94
Mean −0.0004454
Std Dev 1.506
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

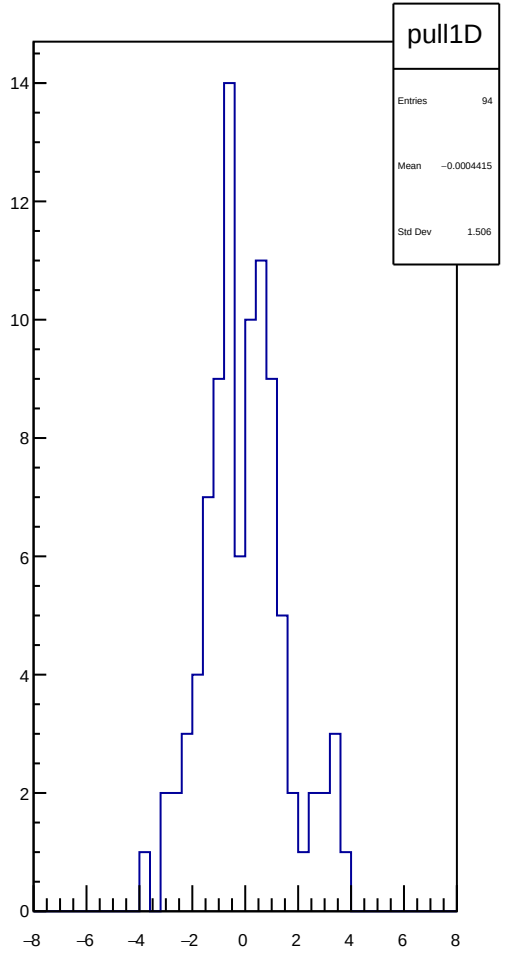

asym_sam_26_48_dd_reg_correction_rms vs run
χ² / ndf 9497 / 93
p0 546.3 ± 0.4061
650
600
550
500
450

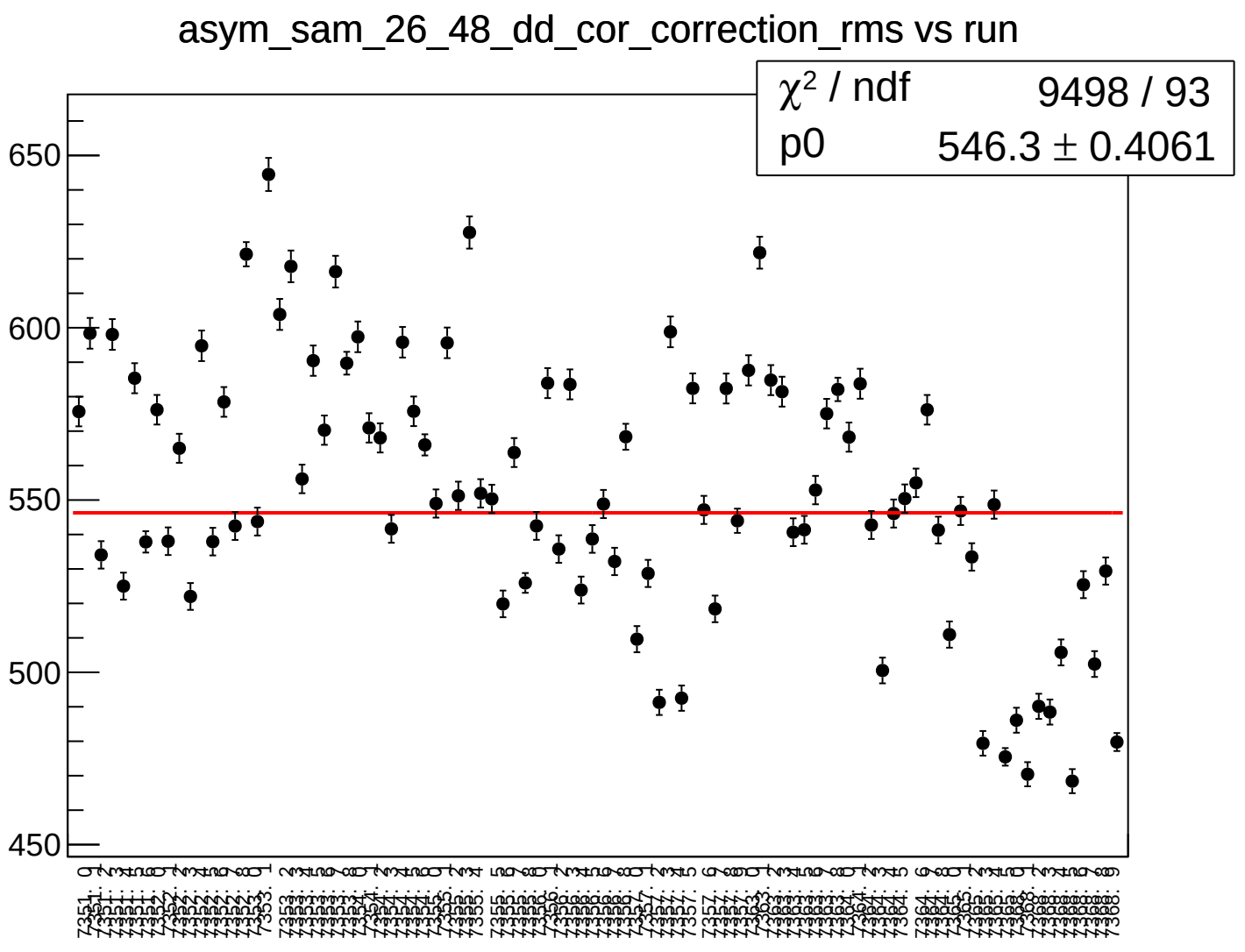

cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 138 / 93
p0 54.65 ± 103.9
pull
Entries 94
Mean 41.14
Std Dev 34.19

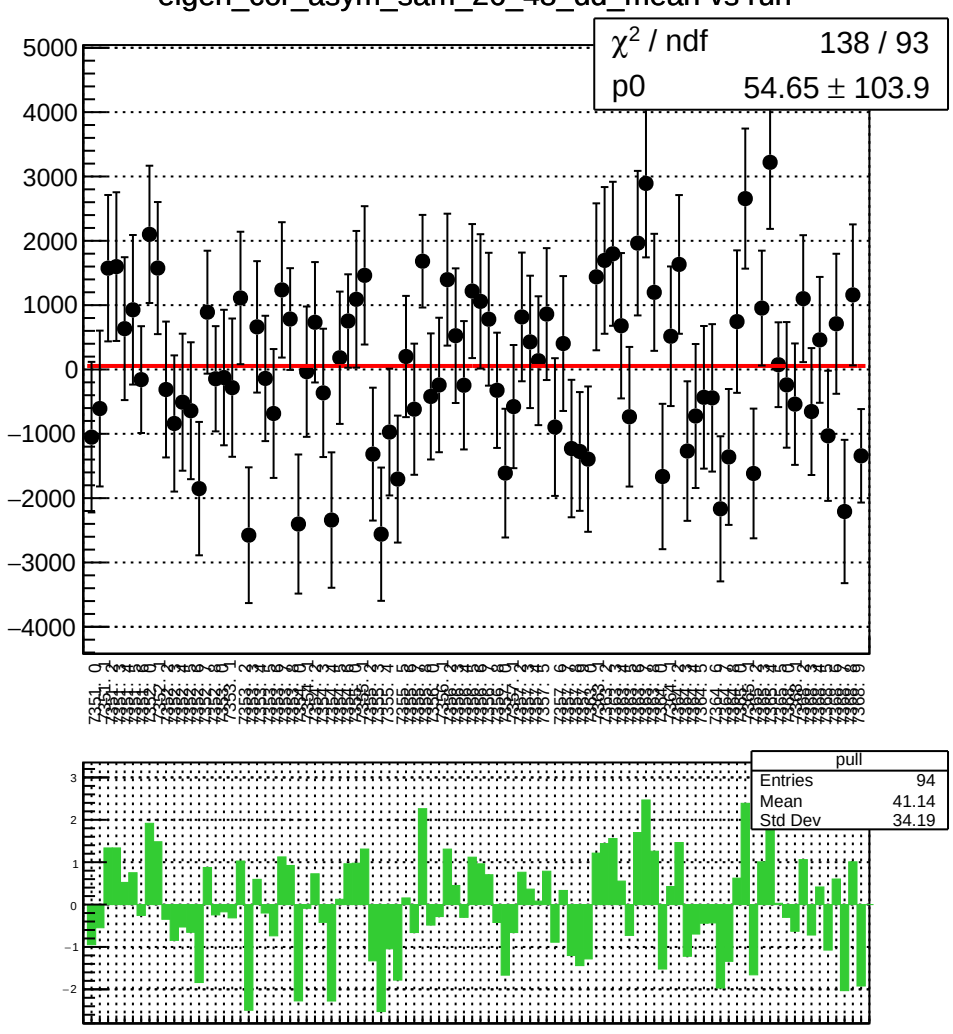

pull1D
Entries 94
Mean −0.002835
Std Dev 1.212

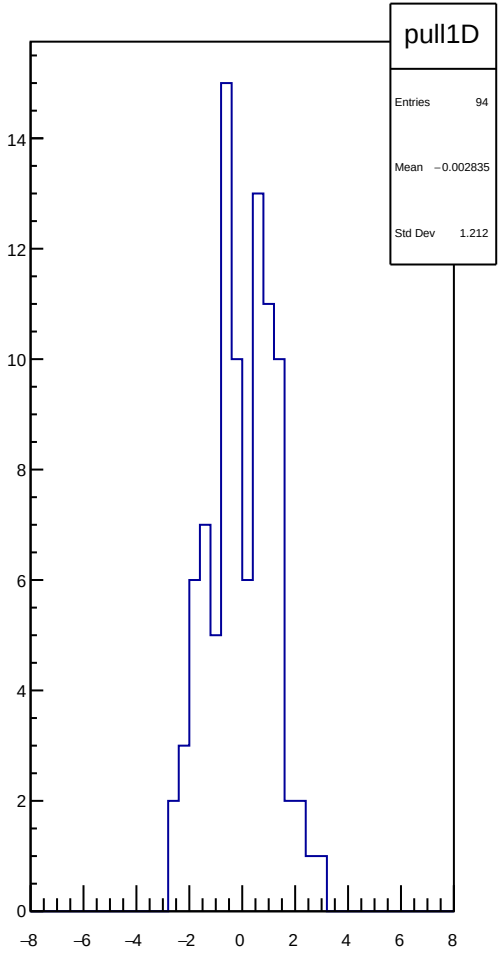

cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 6579 / 93
p0 98.86 ± 0.07344
115
110
105
100
95
90
85

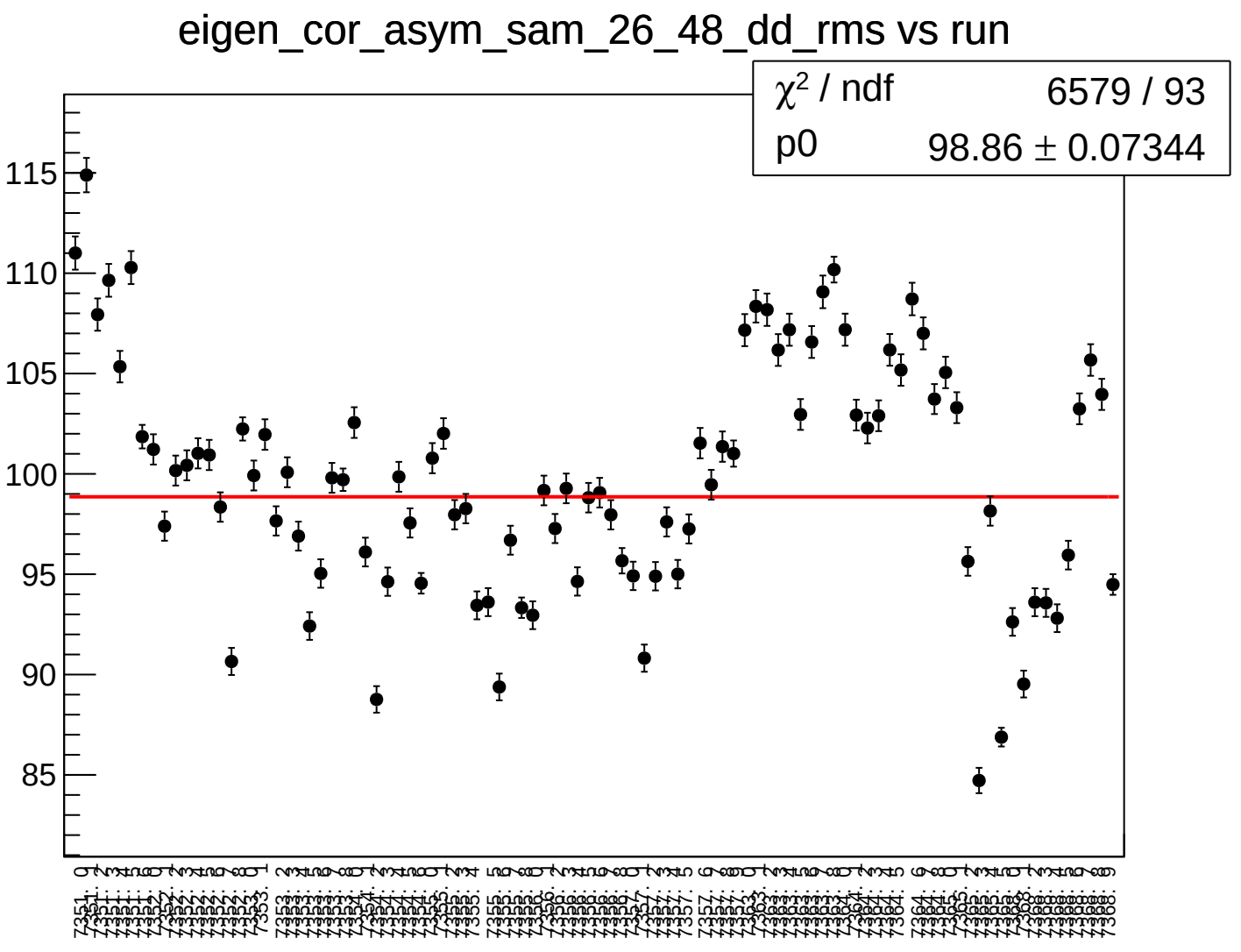

asym_sam_26_48_dd_cor_correction_mean vs run
χ² / ndf 213.2 / 93
p0 −376.2 ± 574.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −1.088e+04
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4

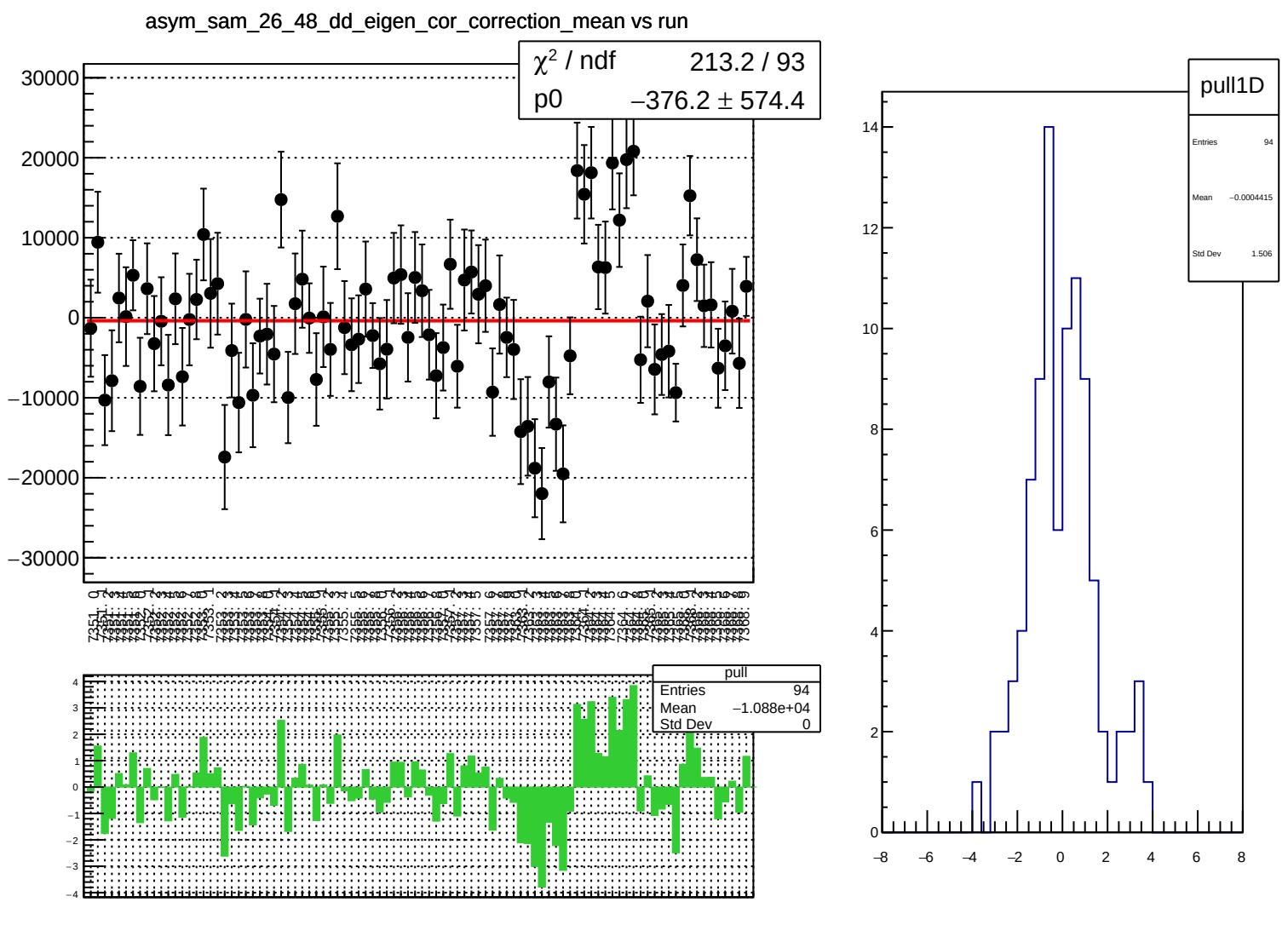

pull1D
Entries 94
Mean −0.0004415
Std Dev 1.506
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

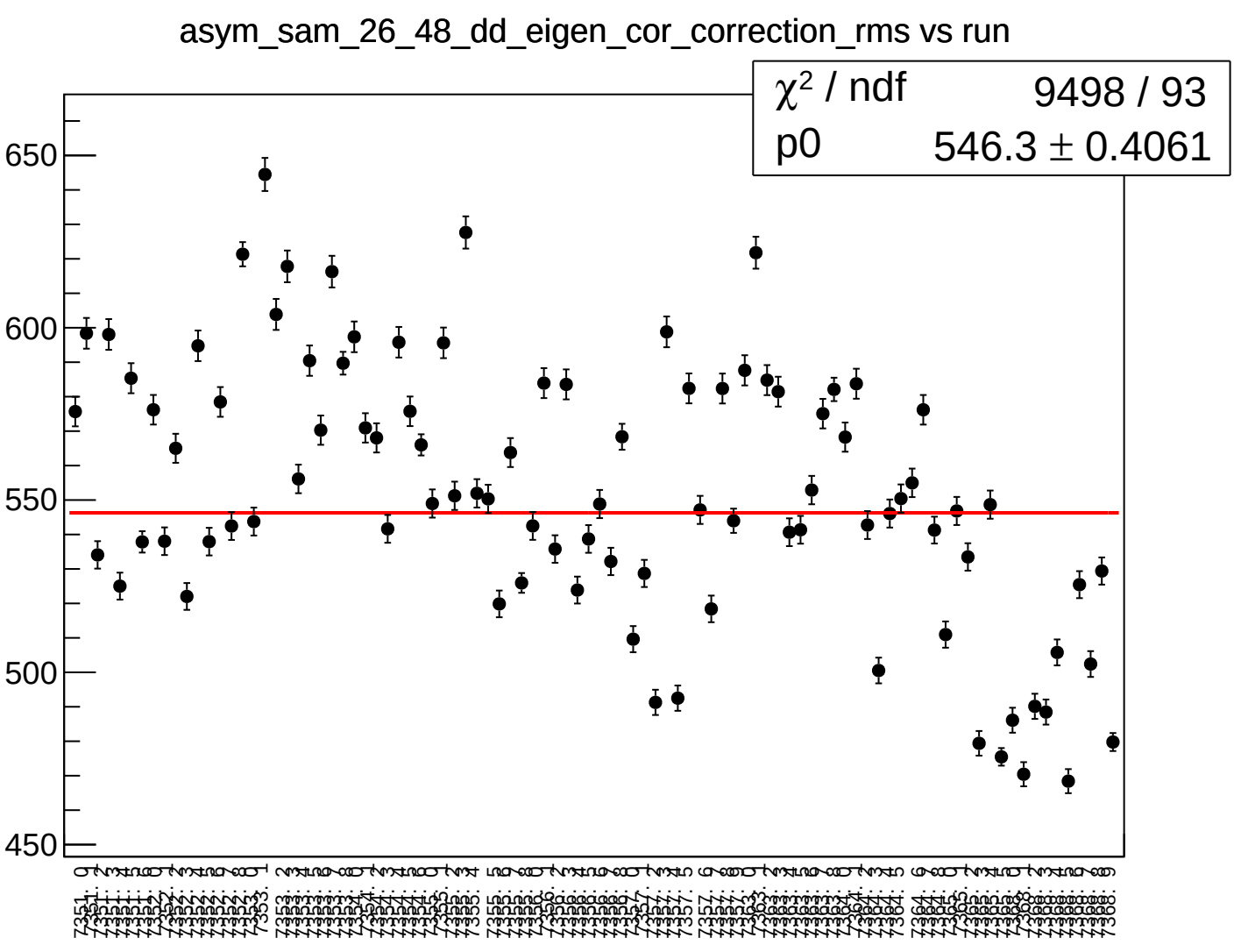

asym_sam_26_48_dd_cor_correction_rms vs run
χ² / ndf 9498 / 93
p0 546.3 ± 0.4061
650
600
550
500
450

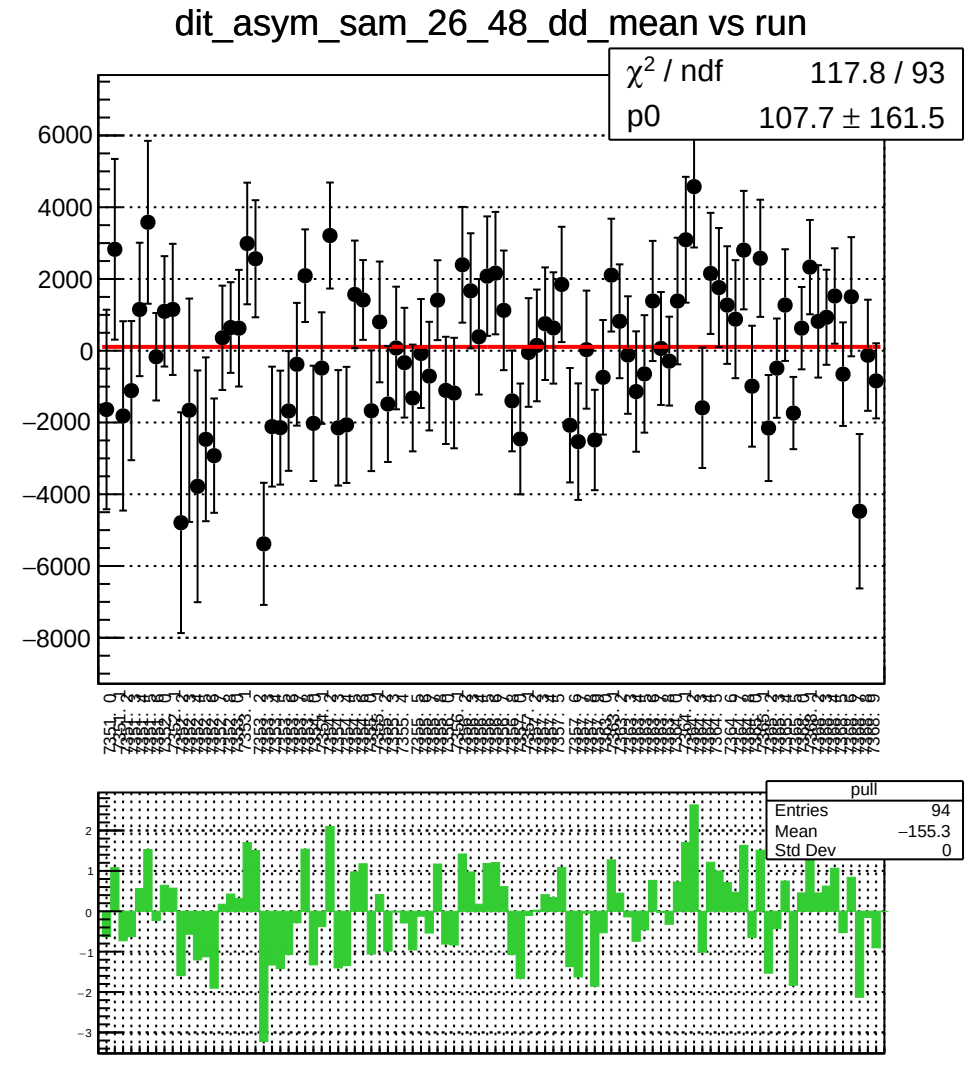

eigen_cor_asym_sam_26_48_dd_mean vs run
χ^2 / ndf 138 / 93
p0 54.65 ± 103.9
pull
Entries 94
Mean 41.14
Std Dev 34.19

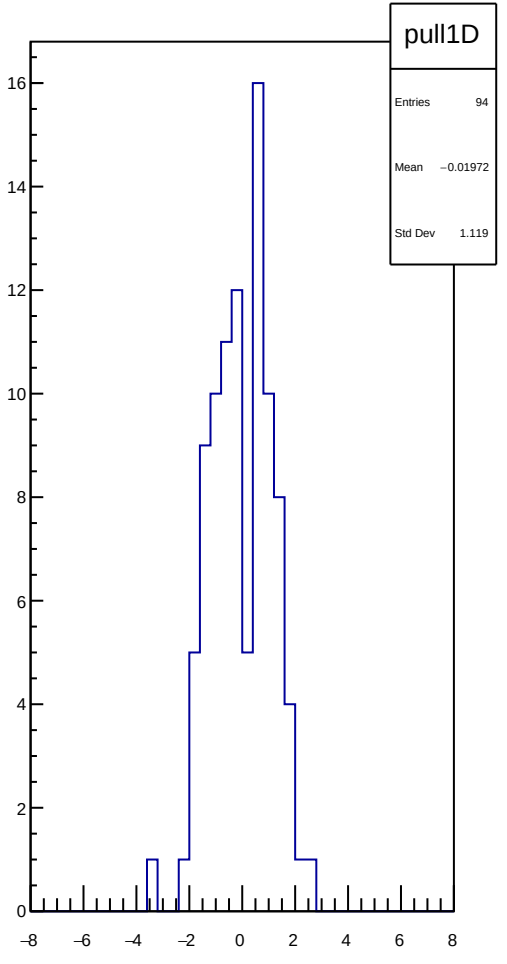

pull1D
Entries 94
Mean −0.002835
Std Dev 1.212

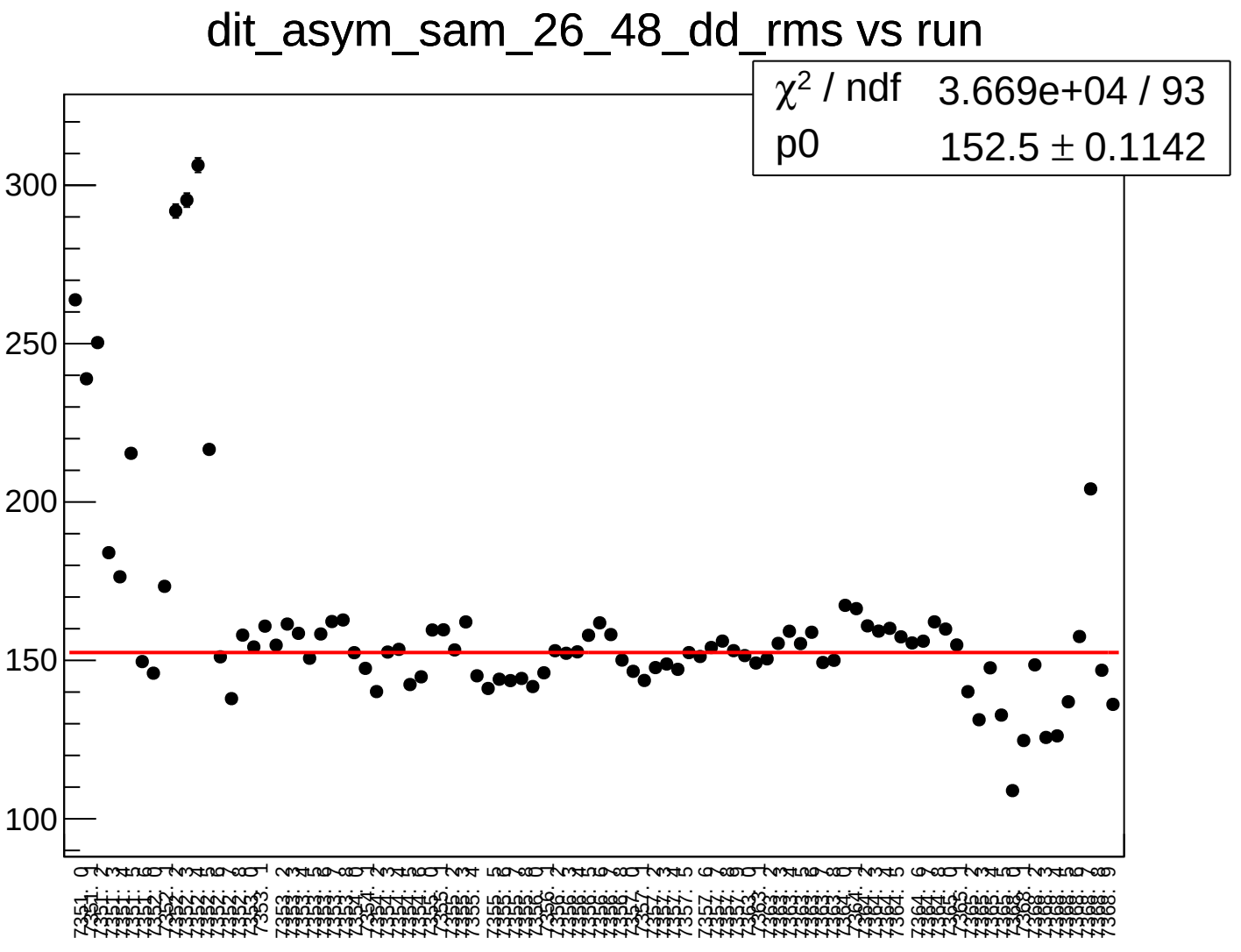

eigen_cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 6579 / 93
p0 98.86 ± 0.07344
115
110
105
100
95
90
85

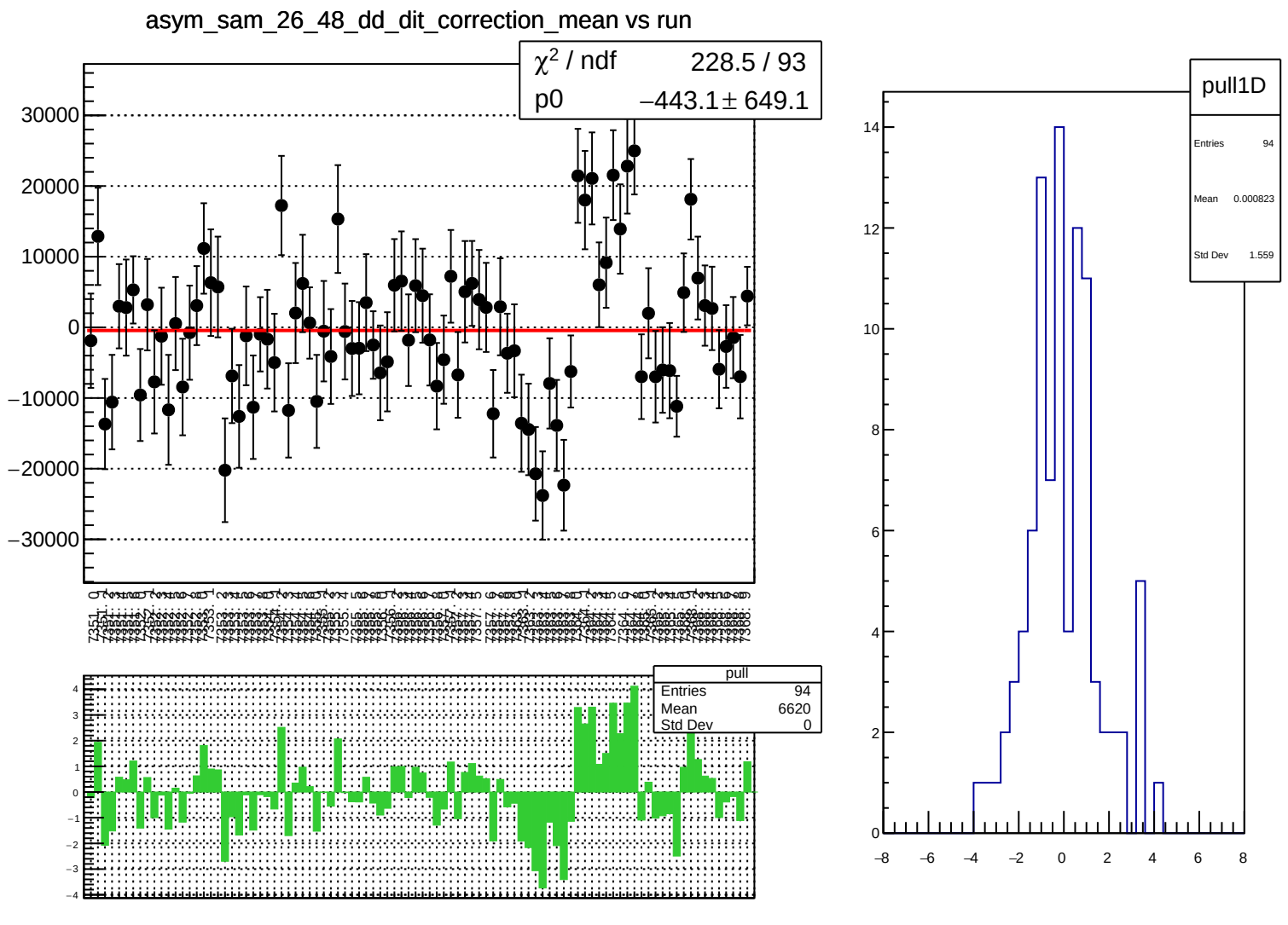

asym_sam_26_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 213.2 / 93
p0 −376.2 ± 574.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −1.088e+04
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 94
Mean −0.0004415
Std Dev 1.506
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

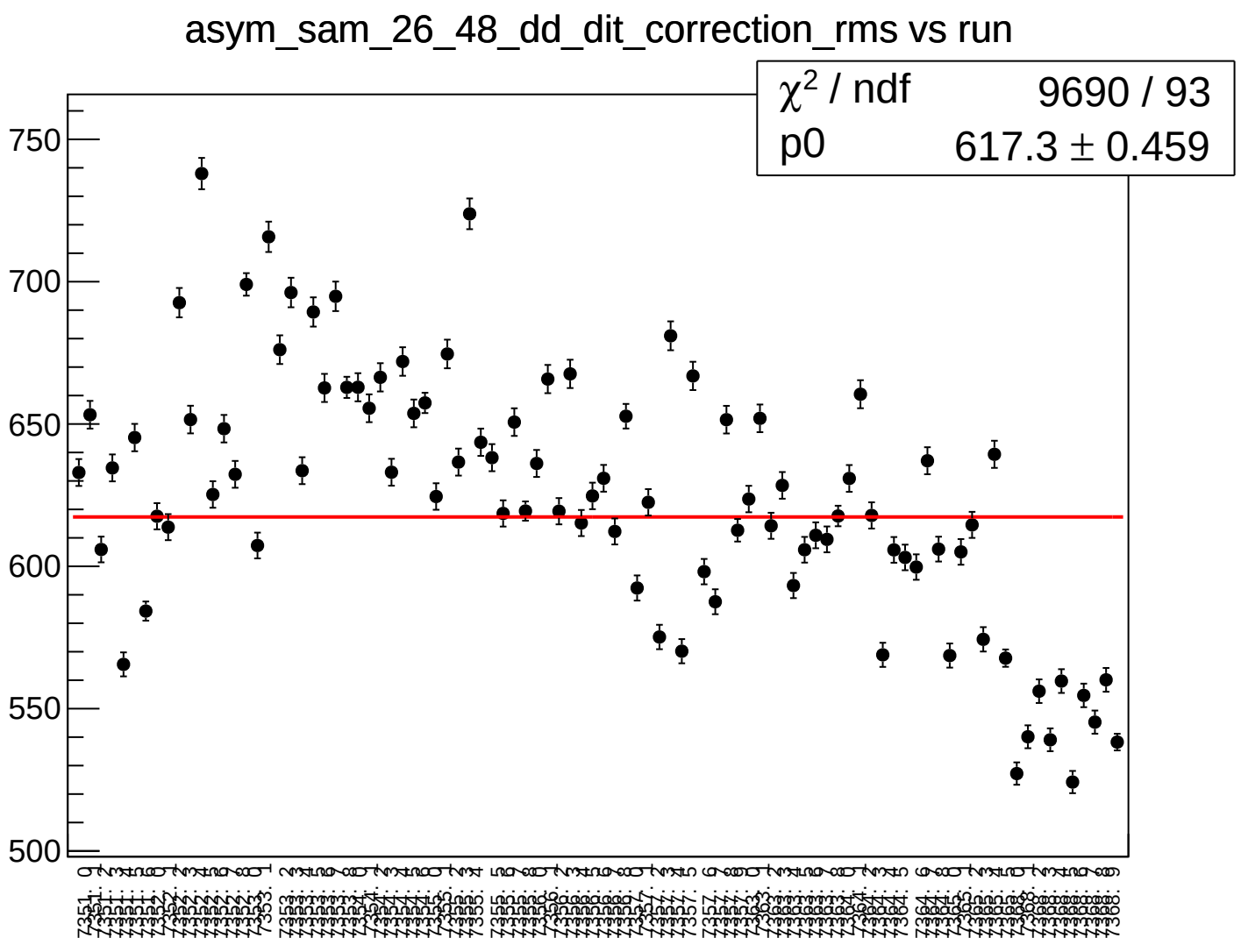

asym_sam_26_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 9498 / 93
p0 546.3 ± 0.4061
650
600
550
500
450

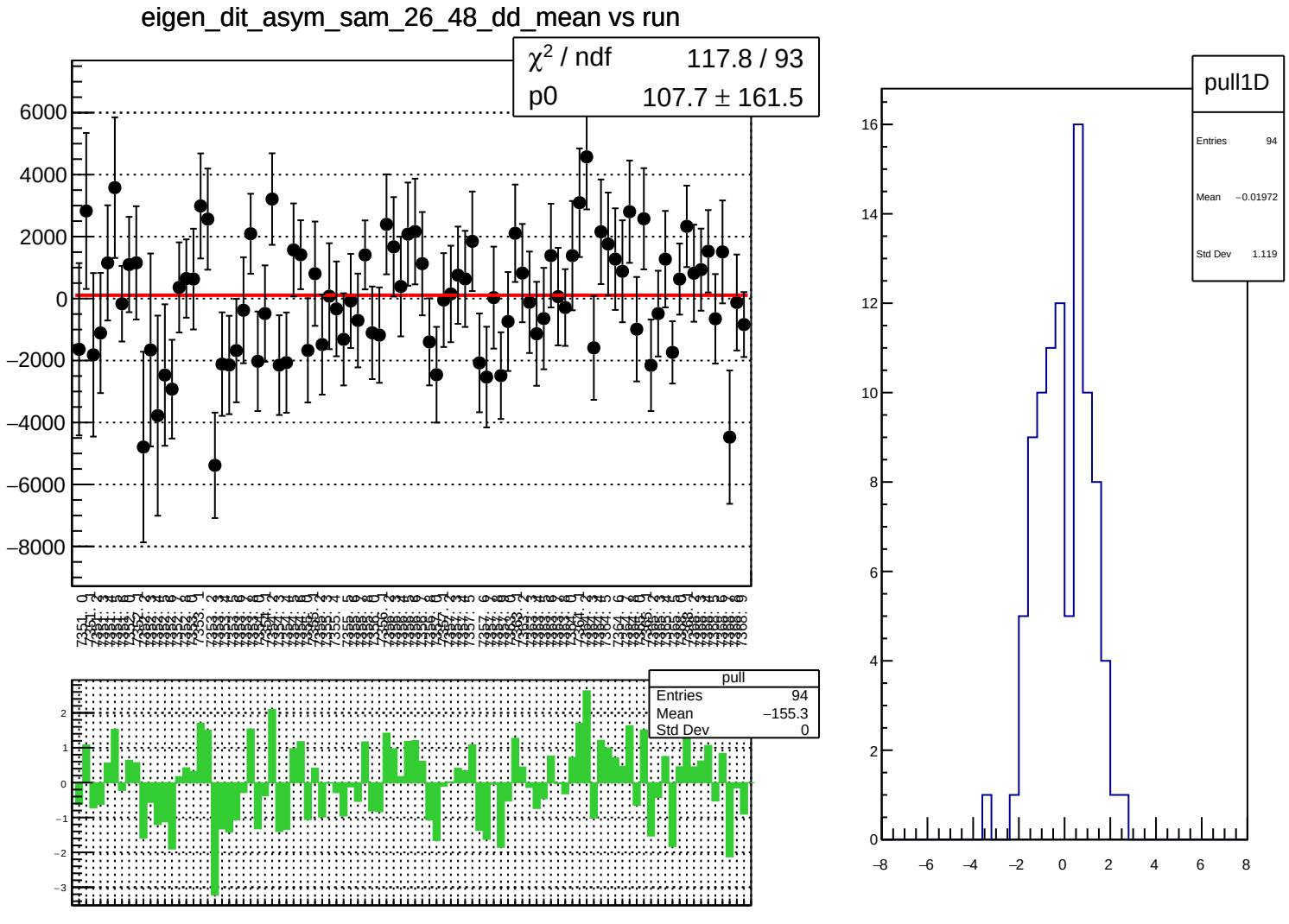

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 117.8 / 93
p0 107.7 ± 161.5
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 94
Mean −155.3
Std Dev 0
2
1
0
−1
−2
−3

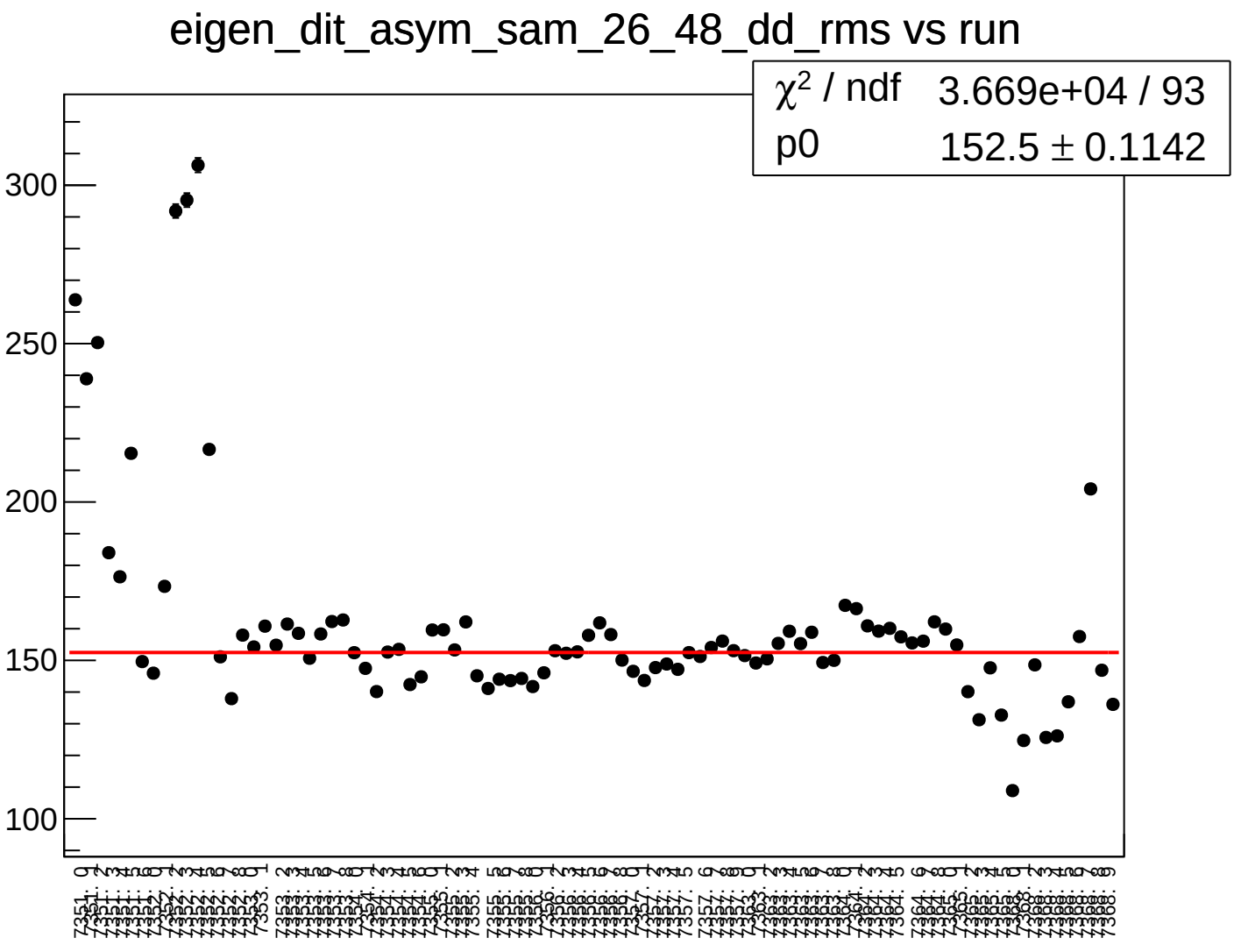

pull1D
Entries 94
Mean −0.01972
Std Dev 1.119
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

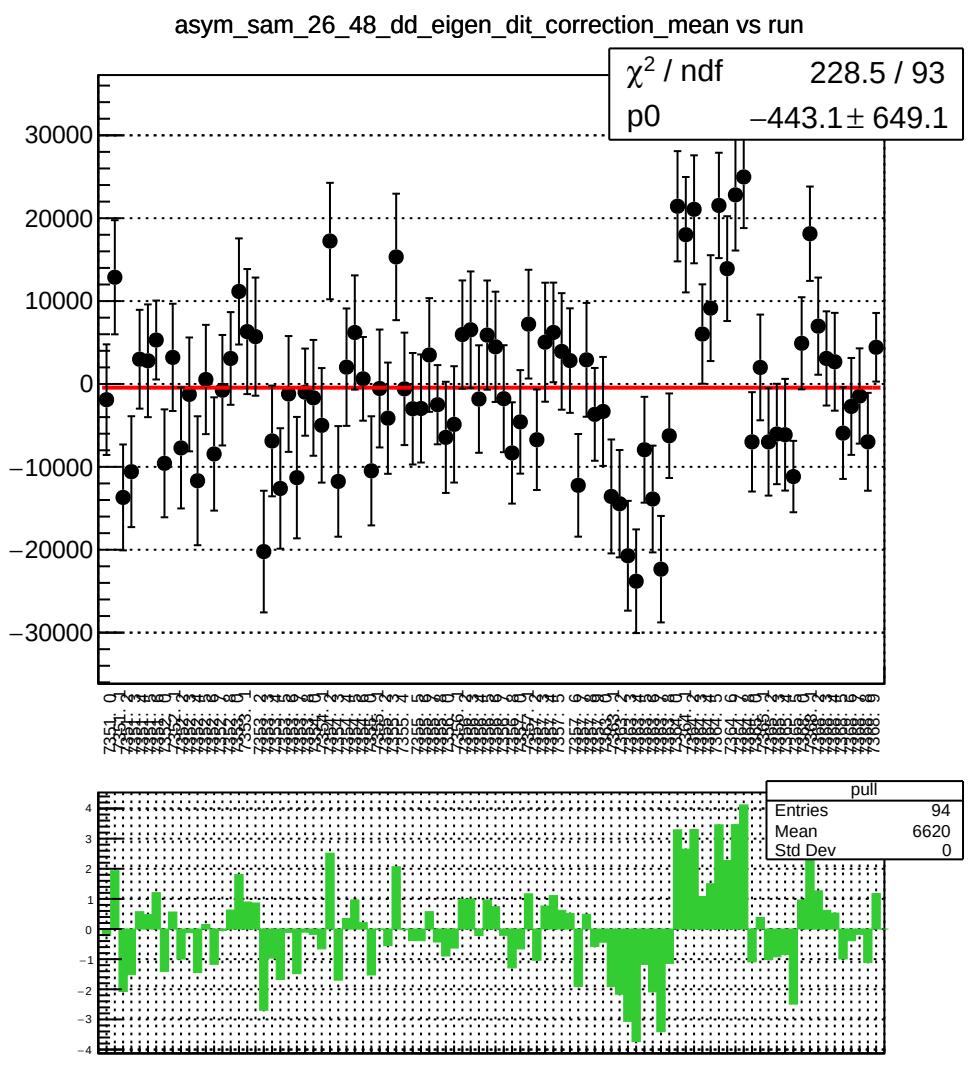

dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 3.669e+04 / 93
p0 152.5 ± 0.1142
300
250
200
150
100

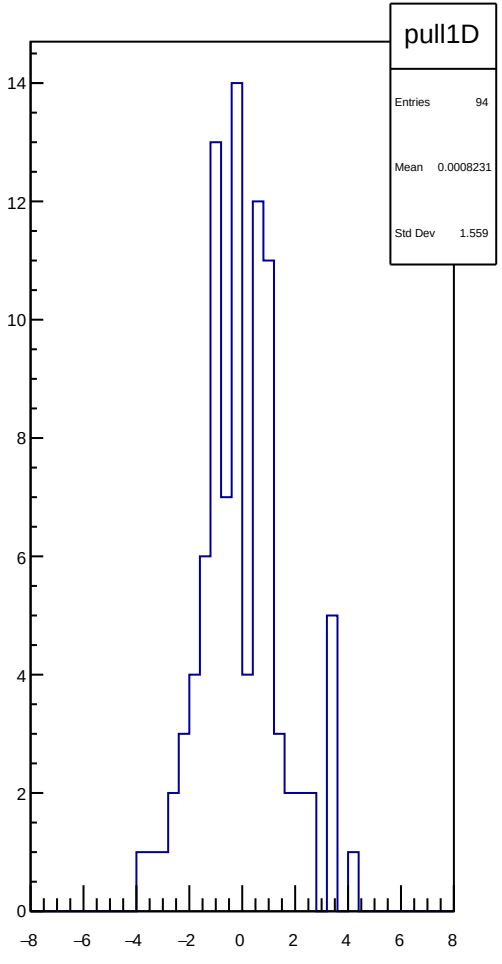

asym_sam_26_48_dd_dit_correction_mean vs run
χ² / ndf 228.5 / 93
p0 −443.1 ± 649.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean 6620
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 94
Mean 0.000823
Std Dev 1.559
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

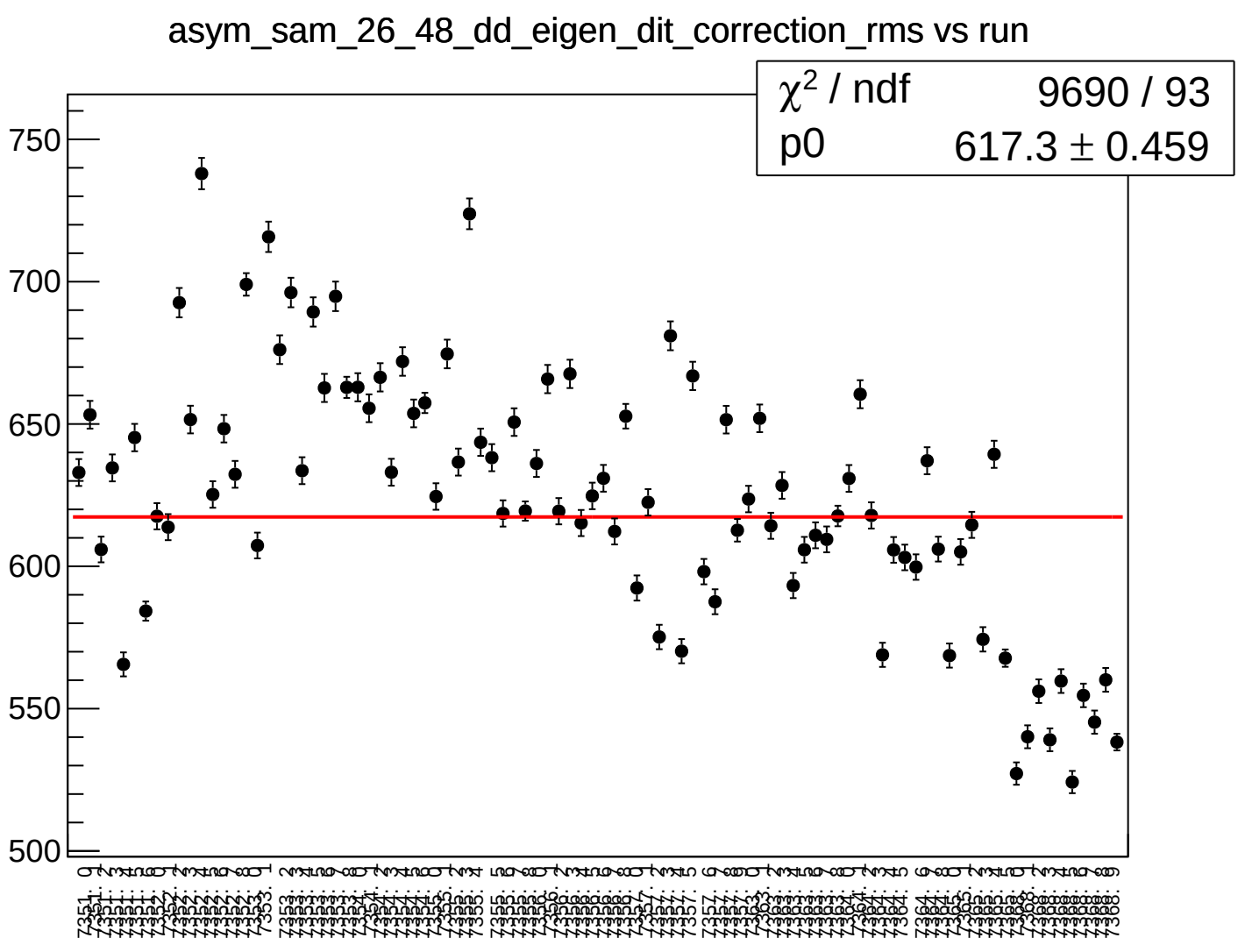

asym_sam_26_48_dd_dit_correction_rms vs run
χ² / ndf 9690 / 93
p0 617.3 ± 0.459
750
700
650
600
550
500

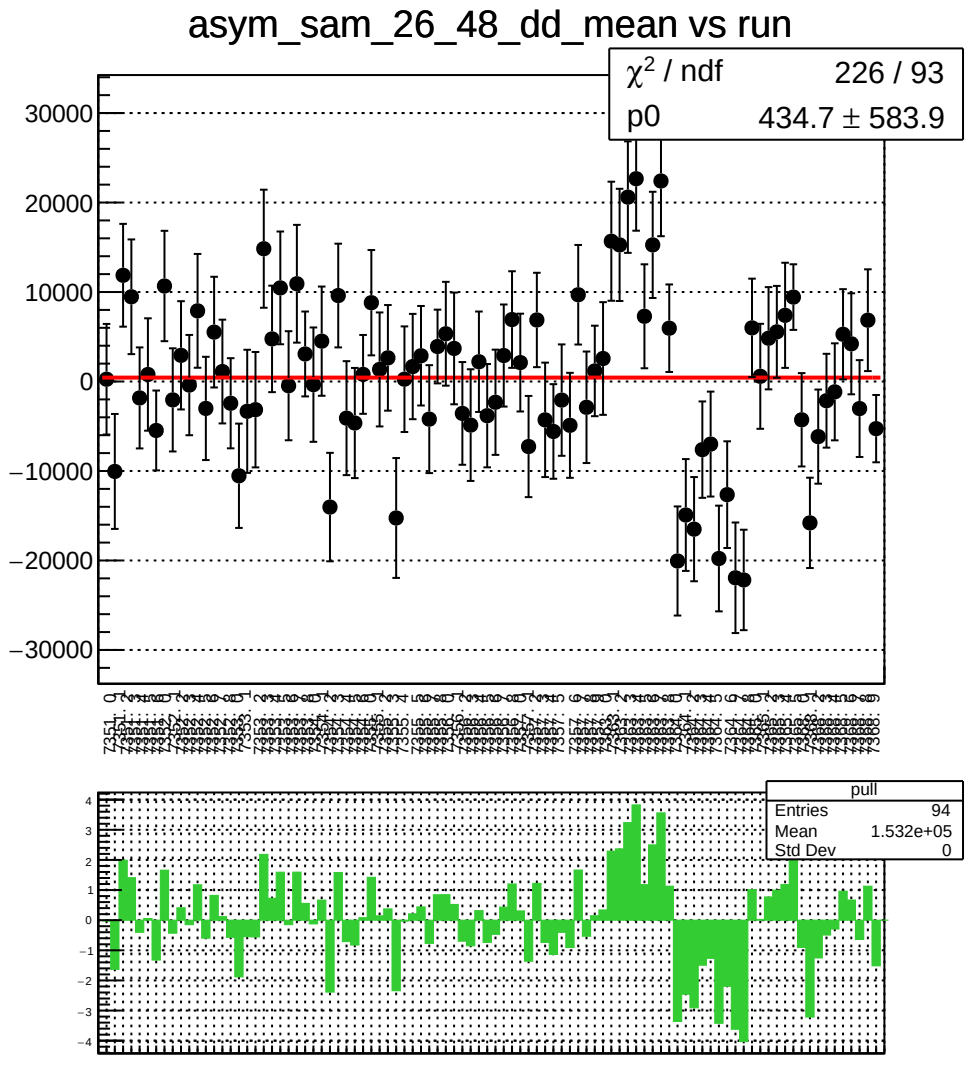

eigen_dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 117.8 / 93
p0 107.7 ± 161.5
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 94
Mean −155.3
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.01972
Std Dev 1.119
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

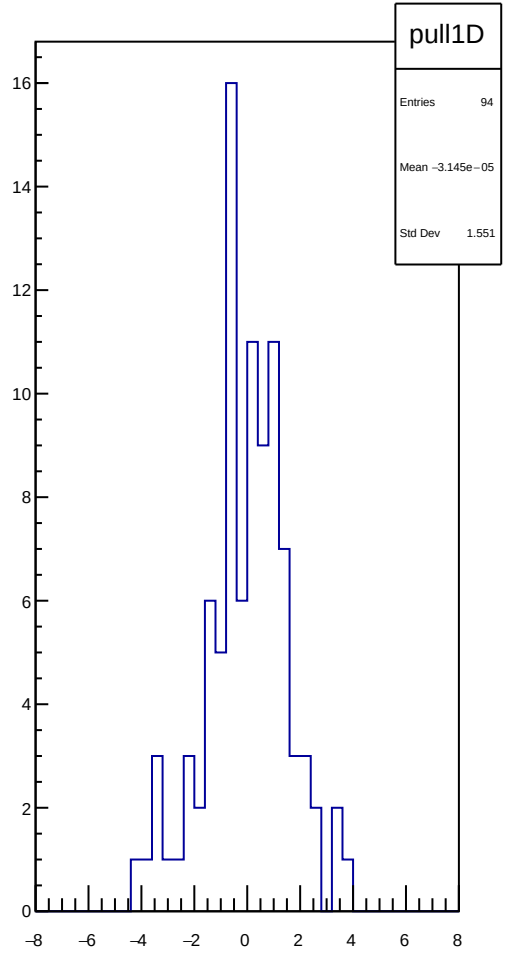

eigen_dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 3.669e+04 / 93
p0 152.5 ± 0.1142
300
250
200
150
100

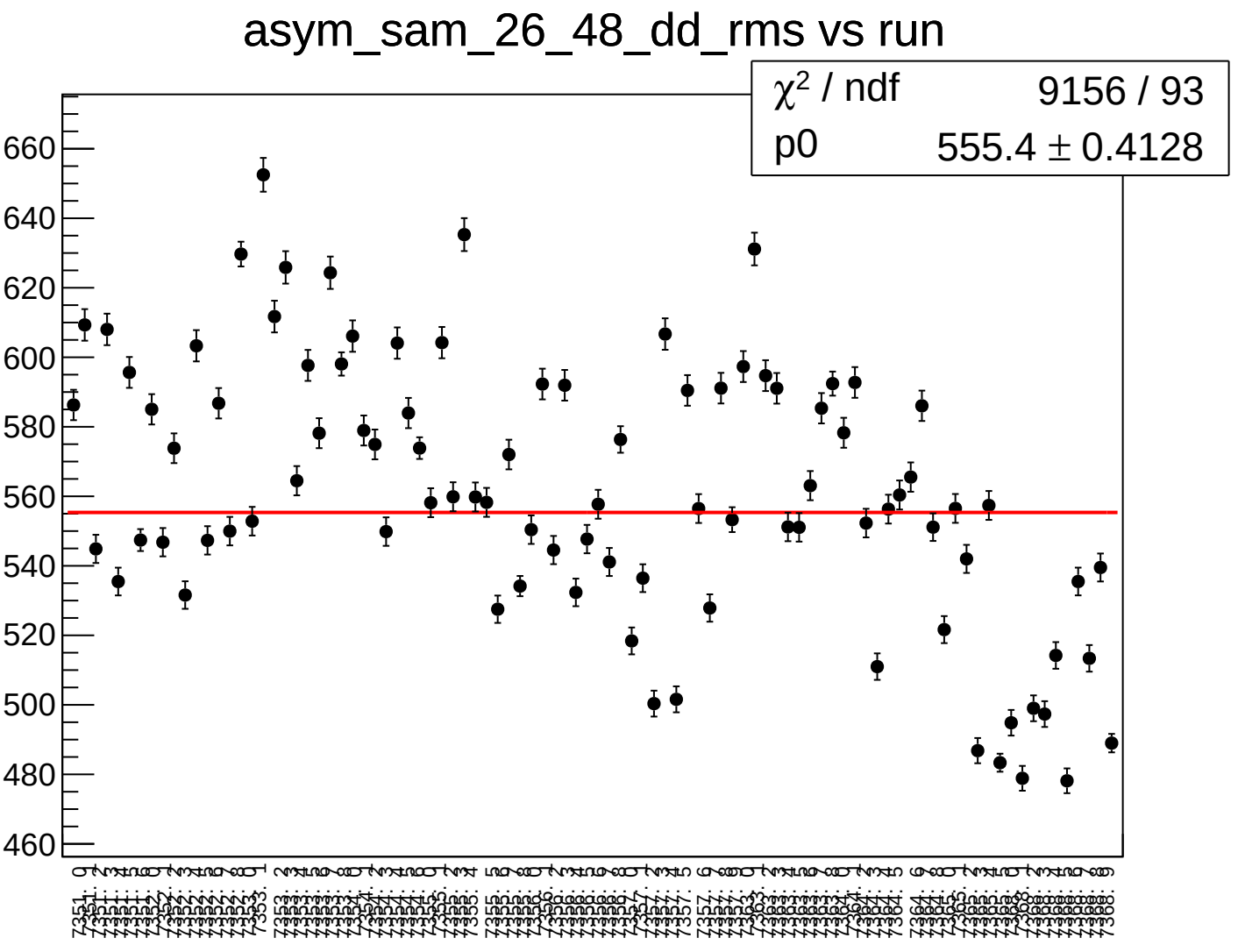

asym_sam_26_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 228.5 / 93
p0 −443.1 ± 649.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean 6620
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4

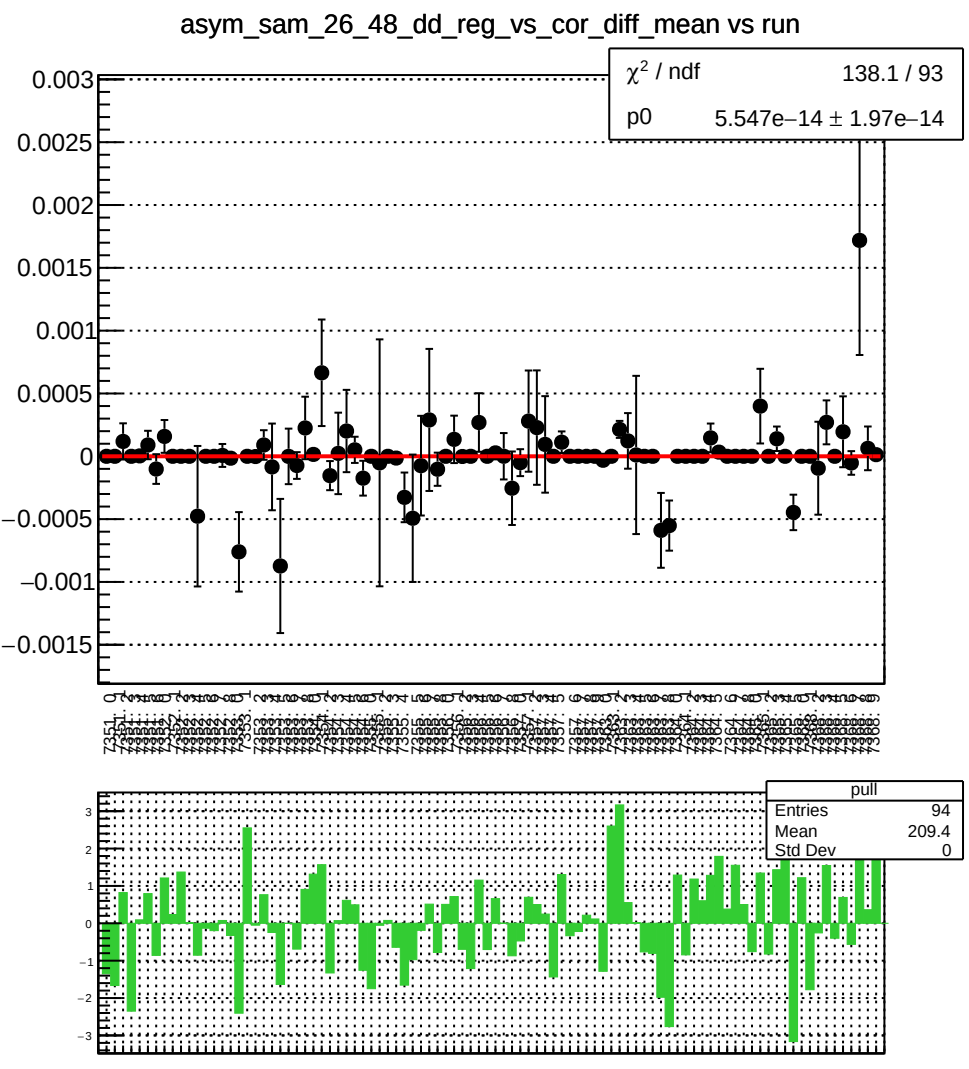

pull1D
Entries 94
Mean 0.0008231
Std Dev 1.559
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

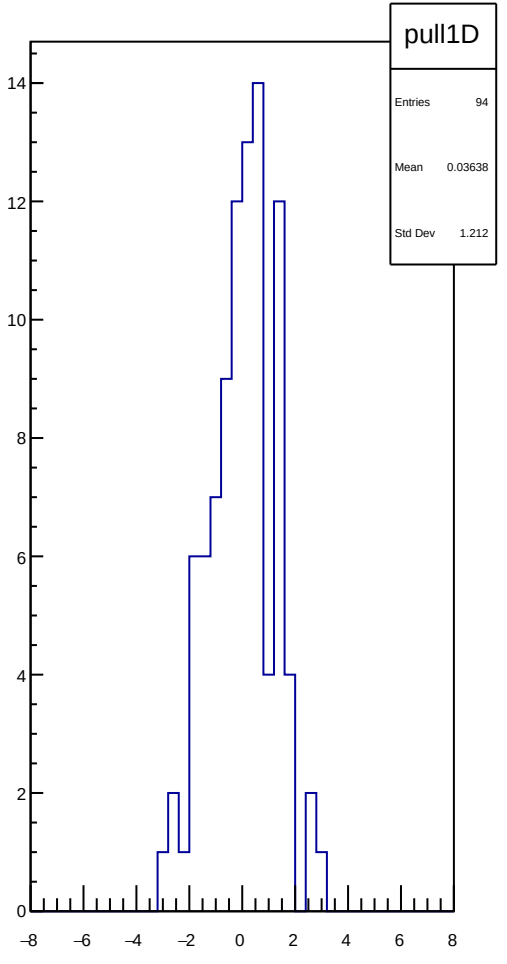

asym_sam_26_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 9690 / 93
p0 617.3 ± 0.459
750
700
650
600
550
500

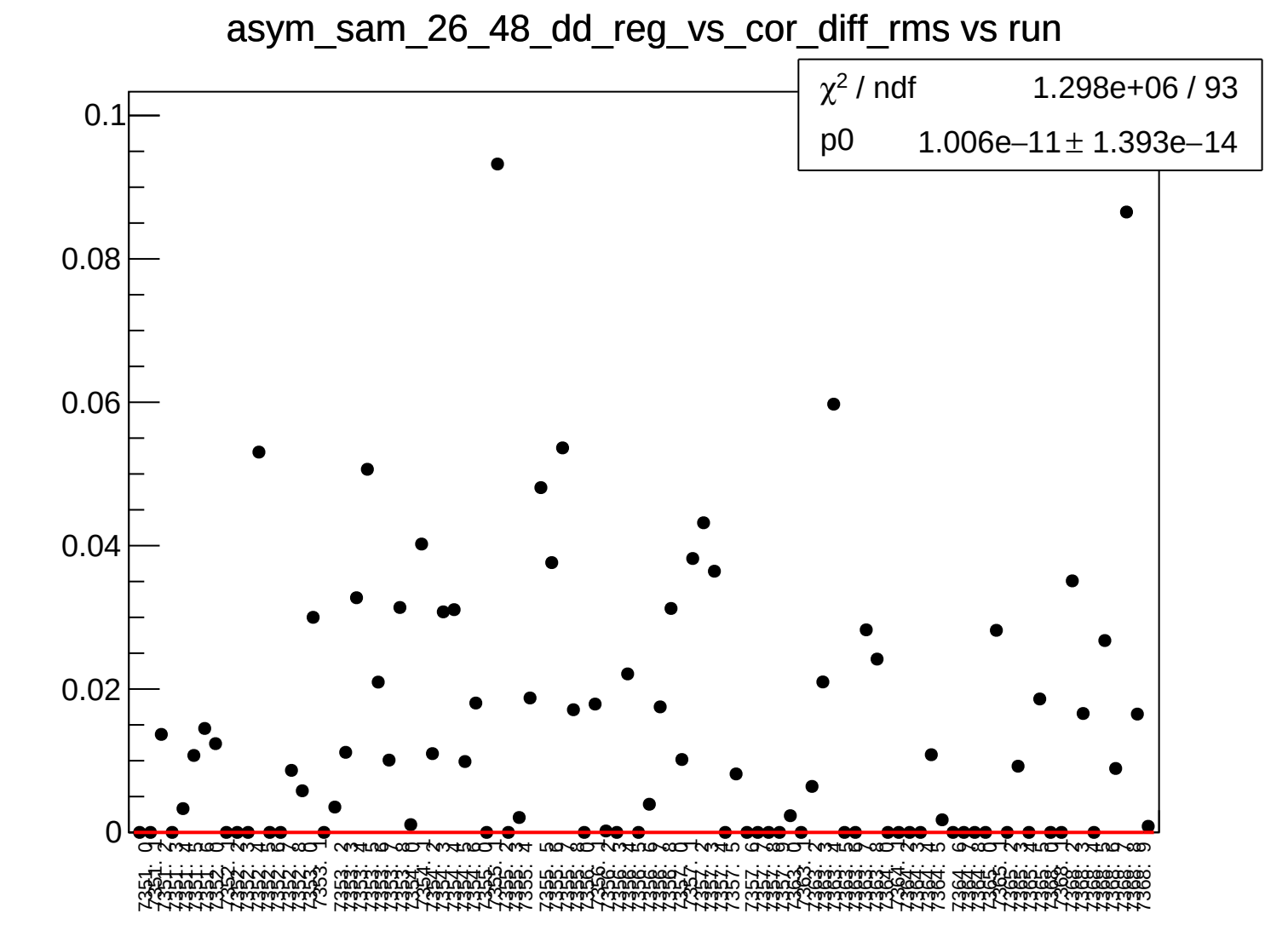

asym_sam_26_48_dd_mean vs run
χ² / ndf 226 / 93
p0 434.7 ± 583.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean 1.532e+05
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4

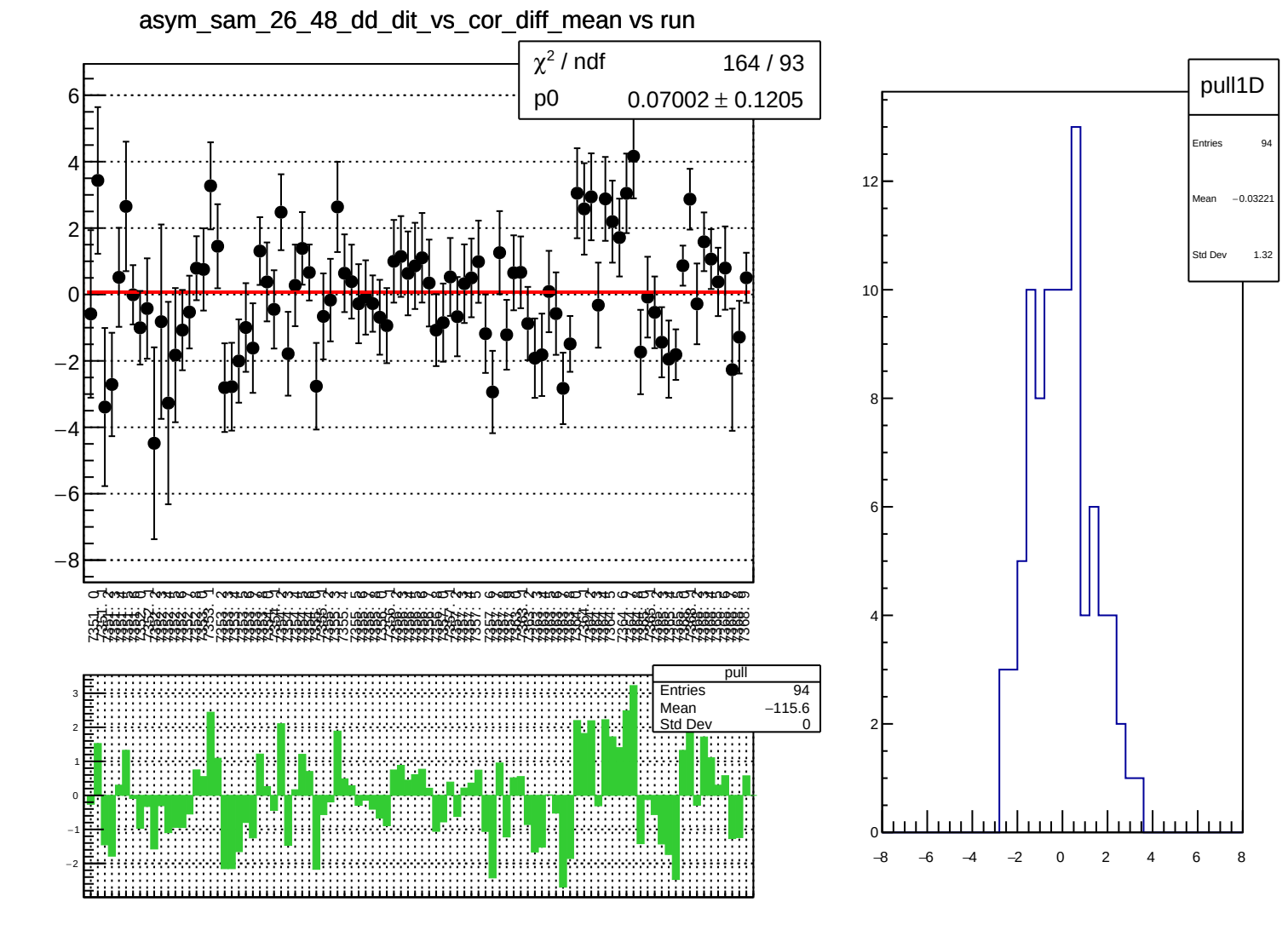

pull1D
Entries 94
Mean −3.145e−05
Std Dev 1.551
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

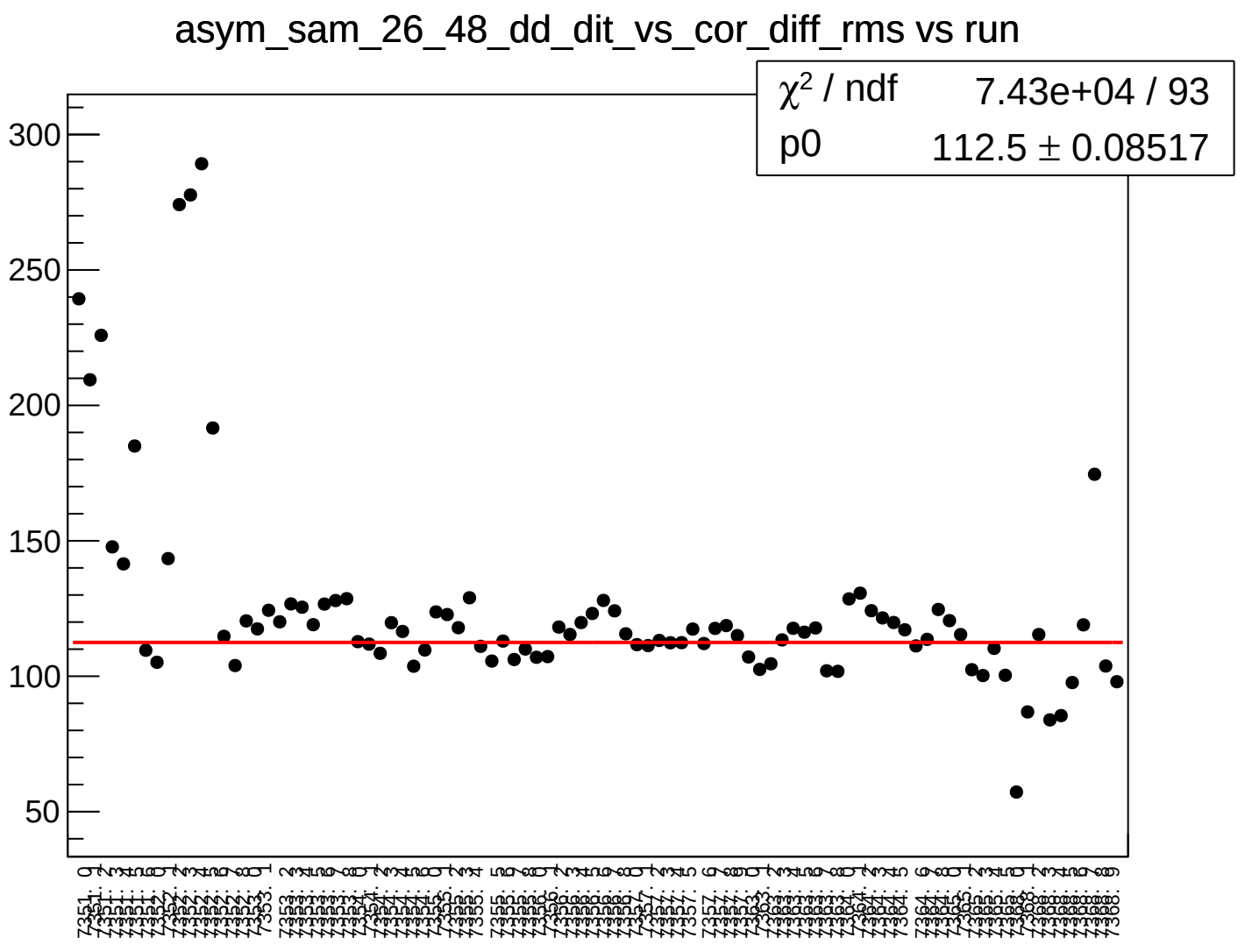

asym_sam_26_48_dd_rms vs run
χ² / ndf 9156 / 93
p0 555.4 ± 0.4128
660
640
620
600
580
560
540
520
500
480
460

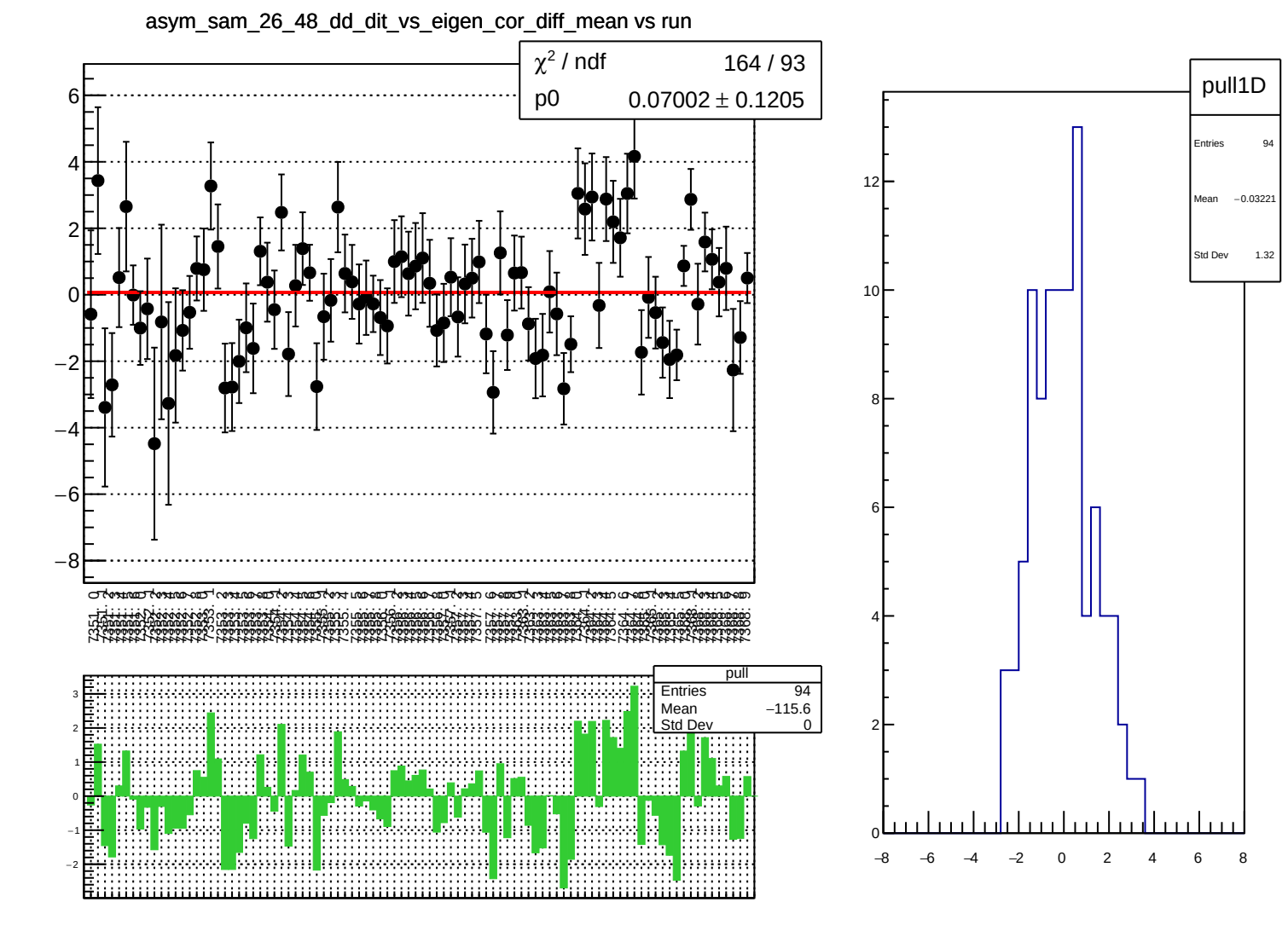

asym_sam_26_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 138.1 / 93
p0 5.547e−14 ± 1.97e−14
0.003
0.0025
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 94
Mean 209.4
Std Dev 0
3
2
1
0
−1
−2
−3

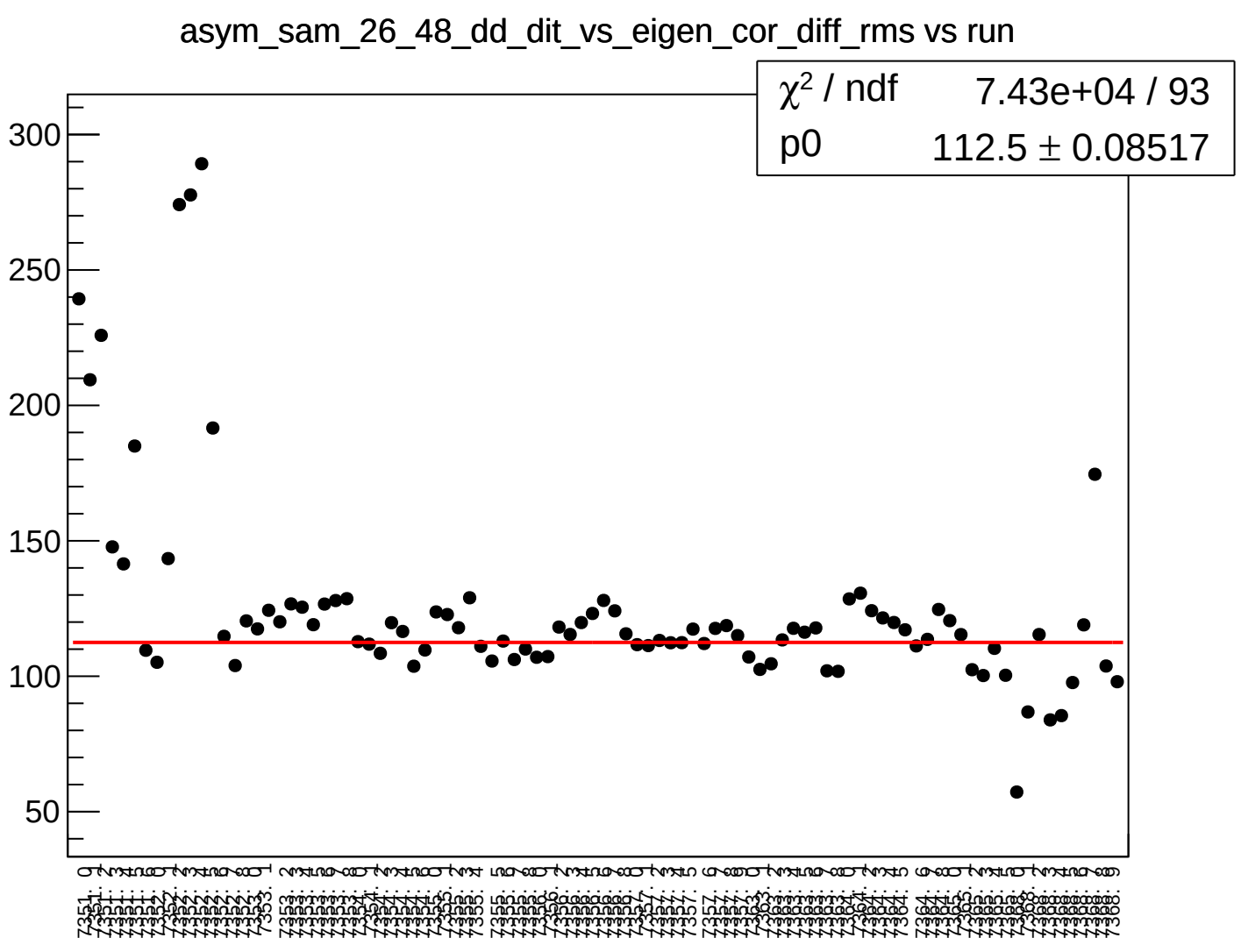

pull1D
Entries 94
Mean 0.03638
Std Dev 1.212
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

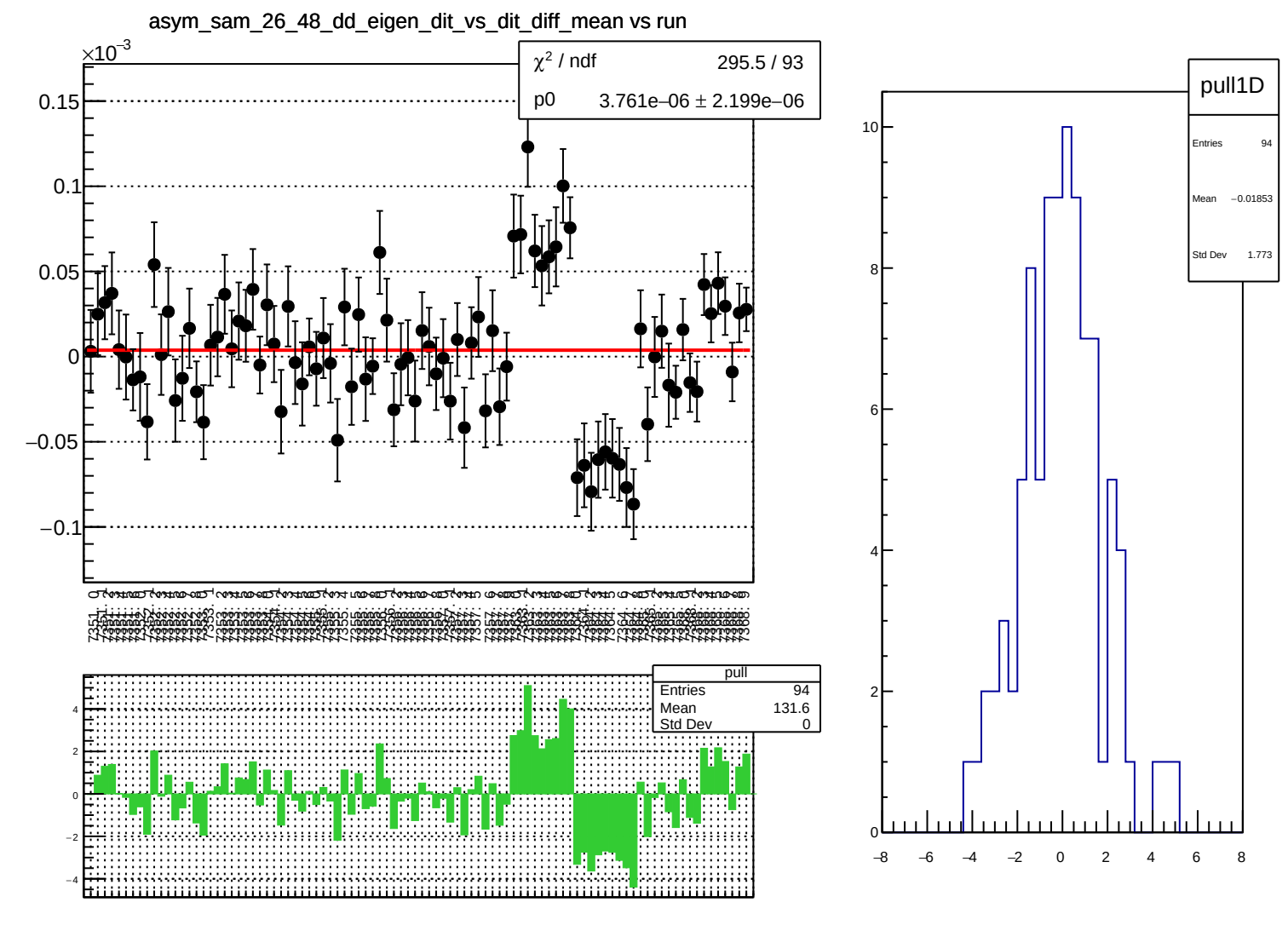

asym_sam_26_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.298e+06 / 93
p0 1.006e−11 ± 1.393e−14
0.1
0.08
0.06
0.04
0.02
0

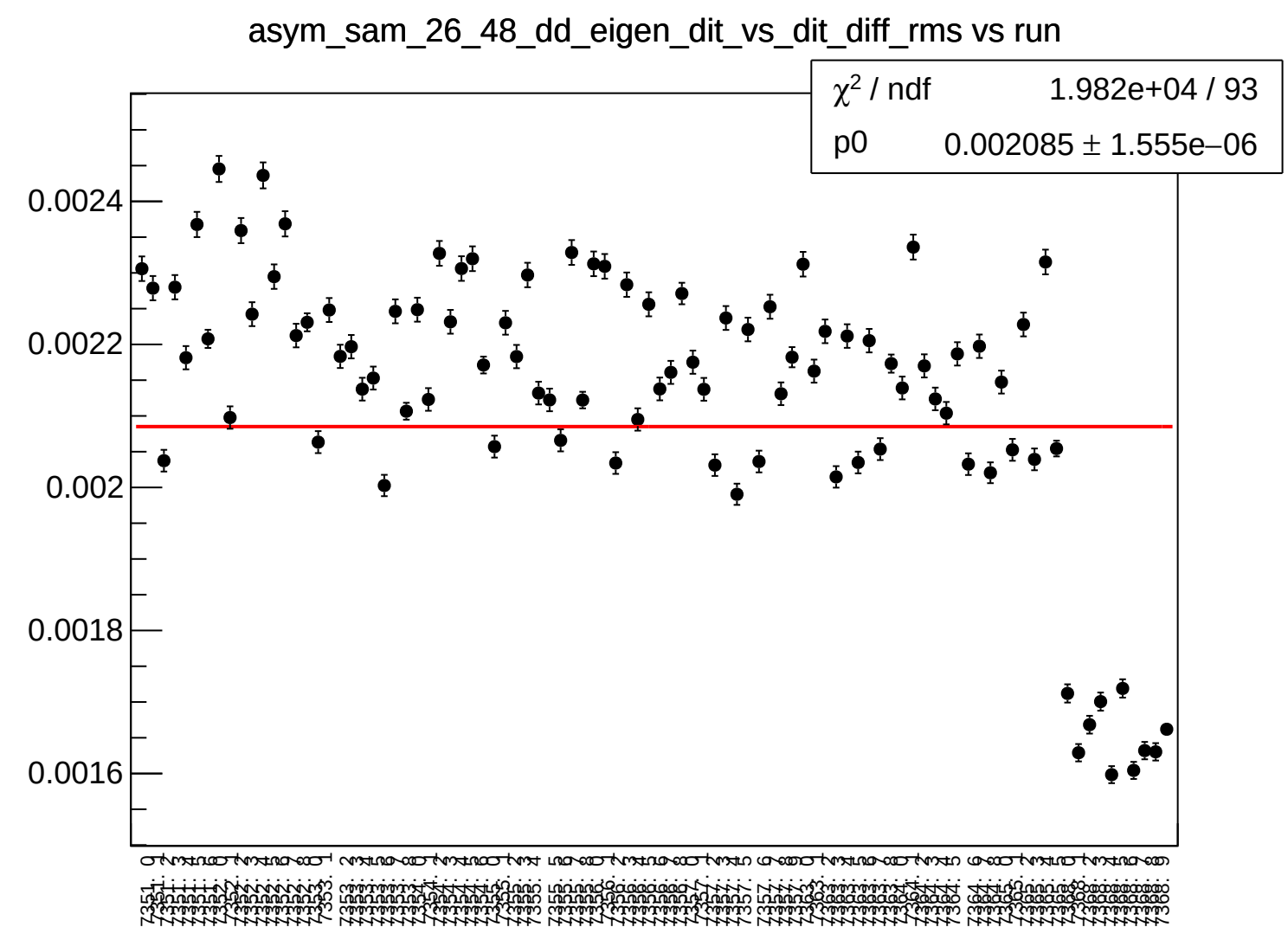

asym_sam_26_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 164 / 93
p0 0.07002 ± 0.1205
pull
Entries 94
Mean −115.6
Std Dev 0
pull1D
Entries 94
Mean −0.03221
Std Dev 1.32

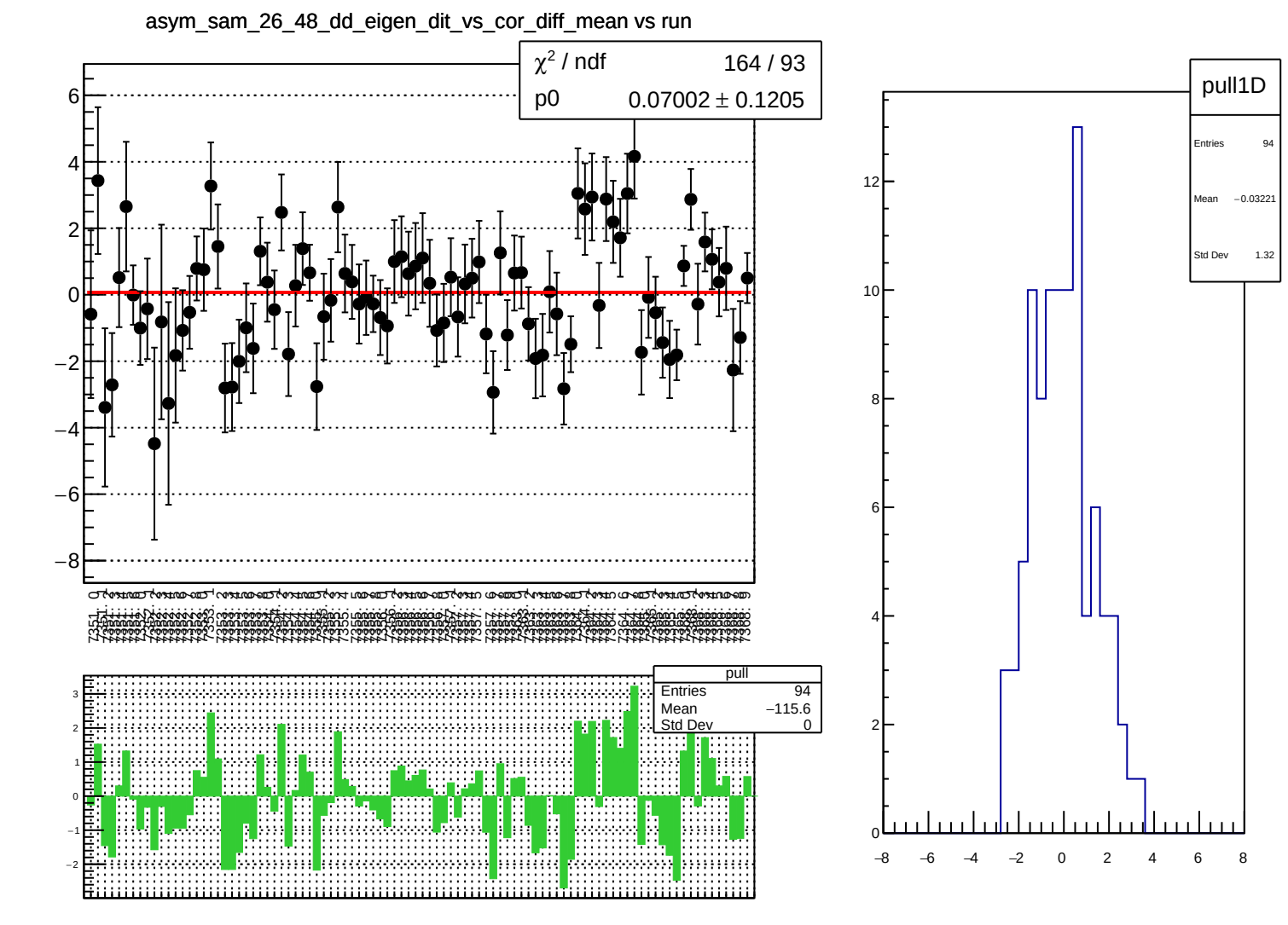

asym_sam_26_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7.43e+04 / 93
p0 112.5 ± 0.08517
300
250
200
150
100
50

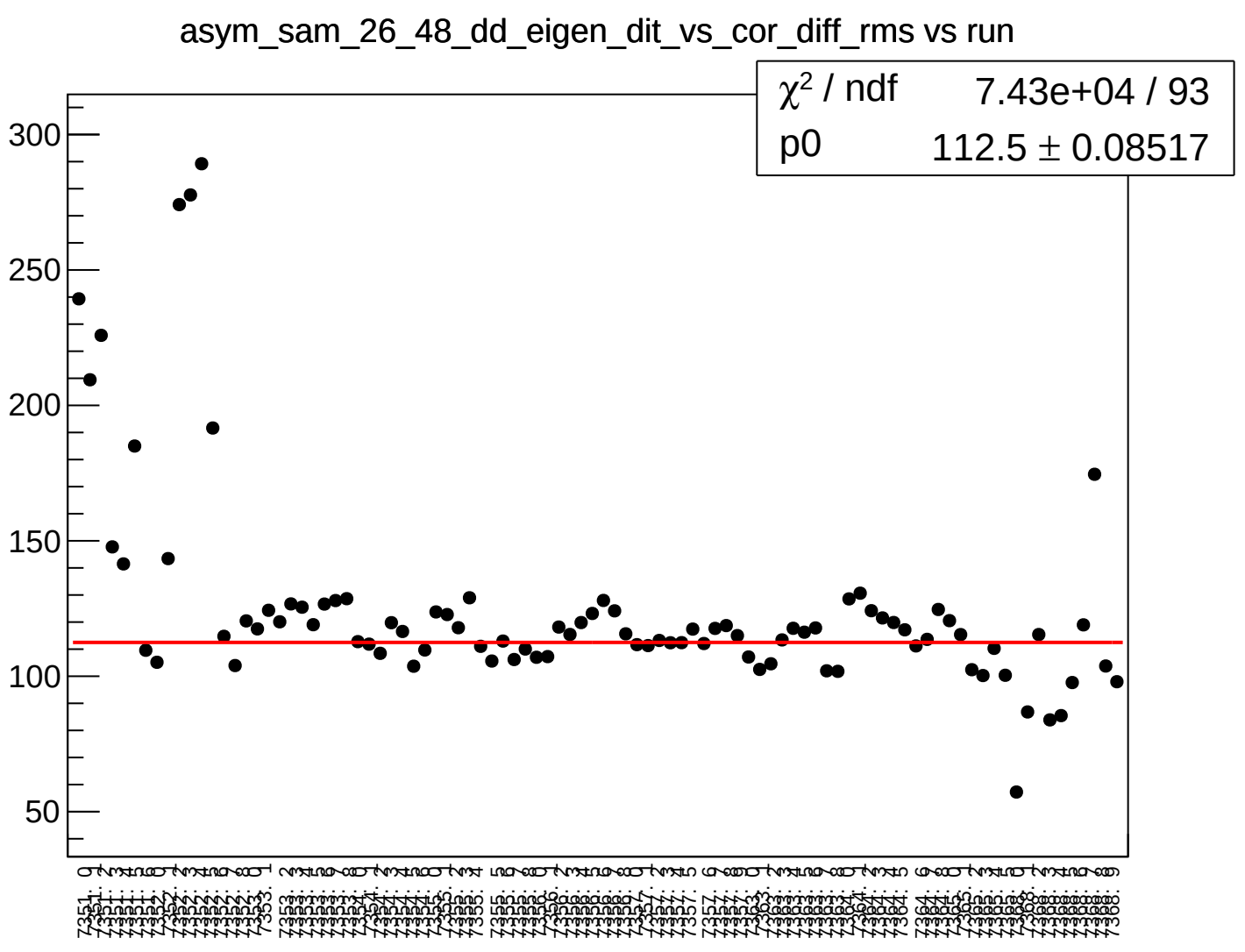

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 164 / 93
p0 0.07002 ± 0.1205
pull
Entries 94
Mean −115.6
Std Dev 0
pull1D
Entries 94
Mean −0.03221
Std Dev 1.32

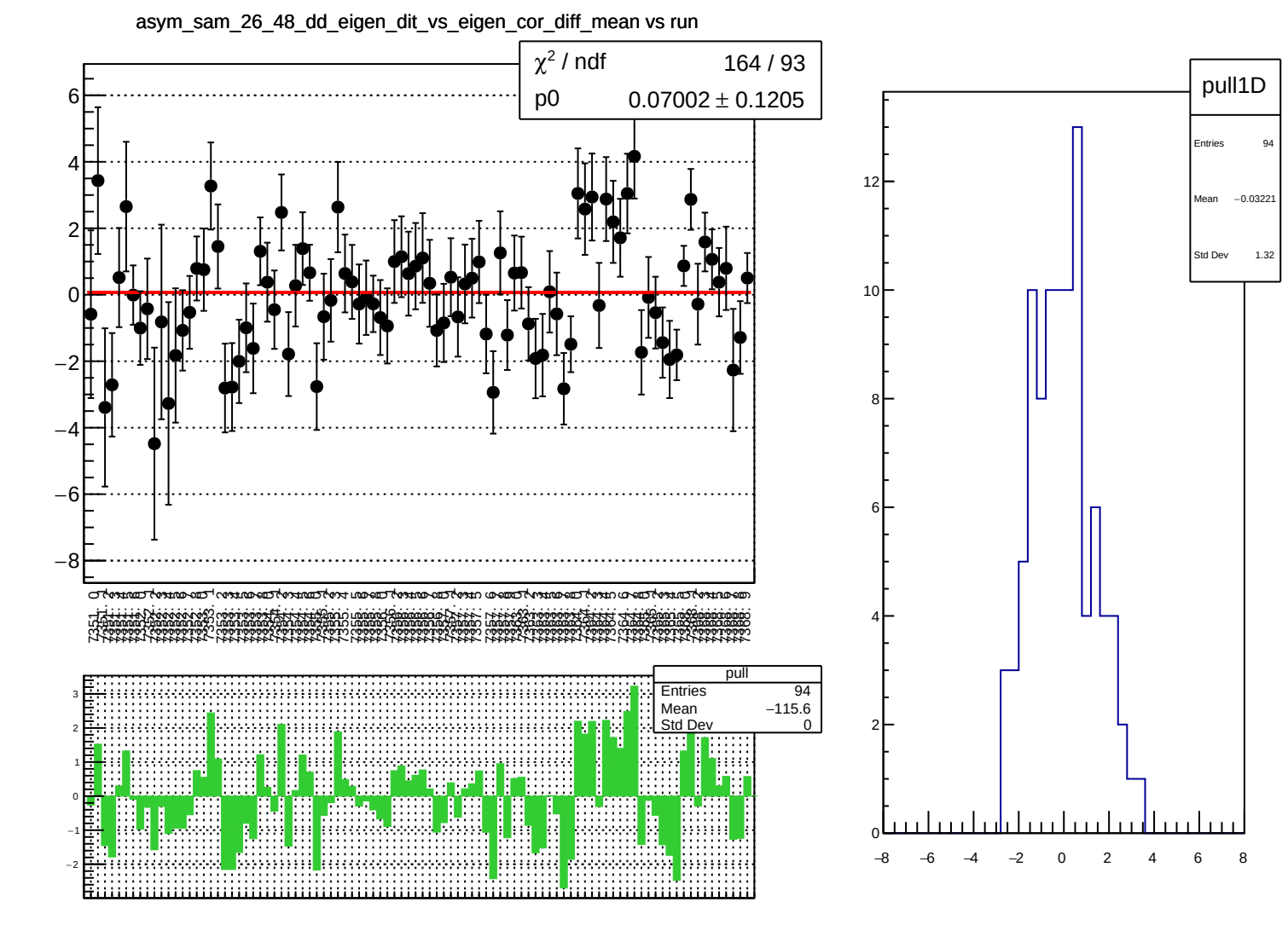

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.43e+04 / 93
p0 112.5 ± 0.08517
300
250
200
150
100
50

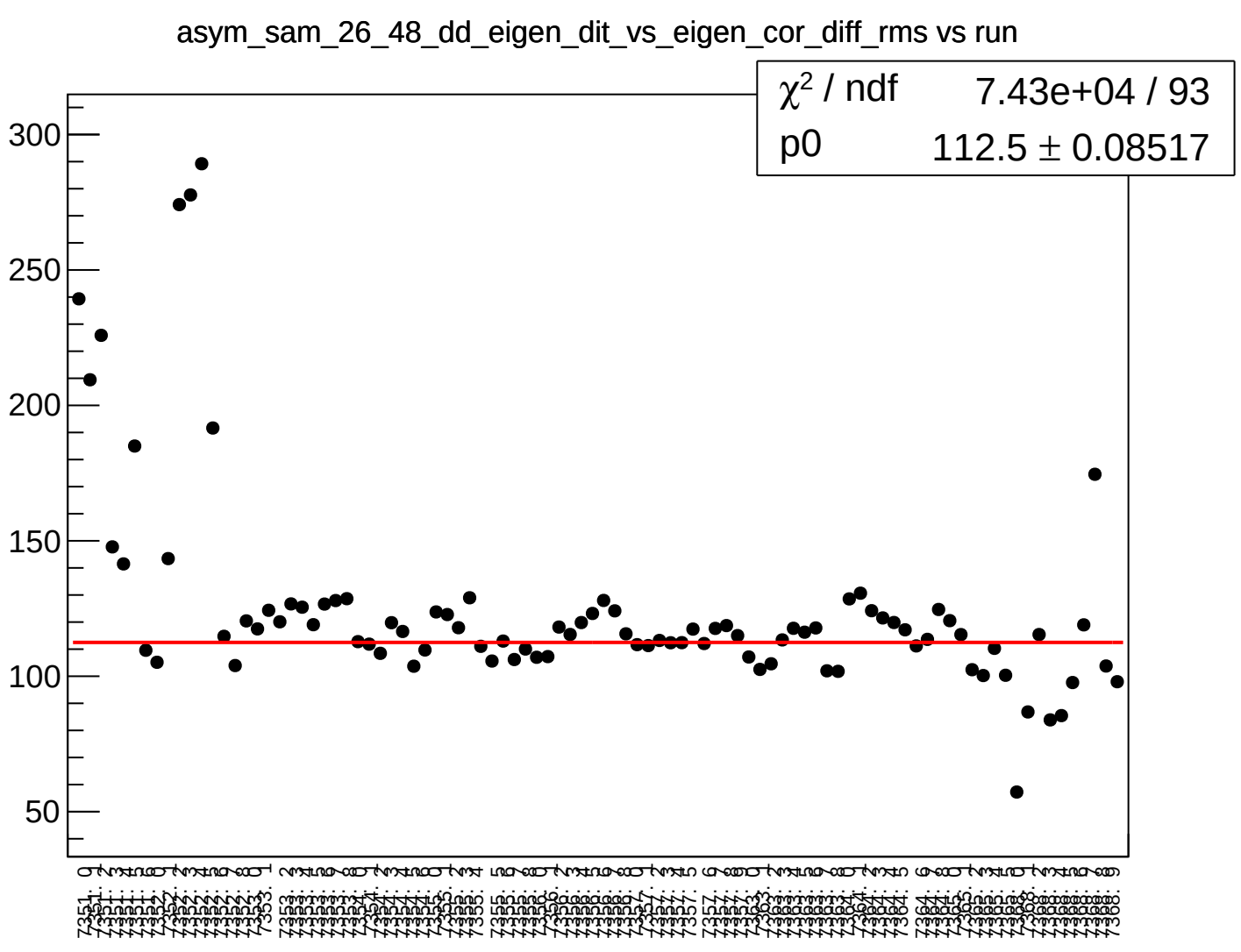

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 295.5 / 93
p0 3.761e−06 ± 2.199e−06
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 94
Mean 131.6
Std Dev 0
4
2
0
−2
−4
pull1D
Entries 94
Mean −0.01853
Std Dev 1.773
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

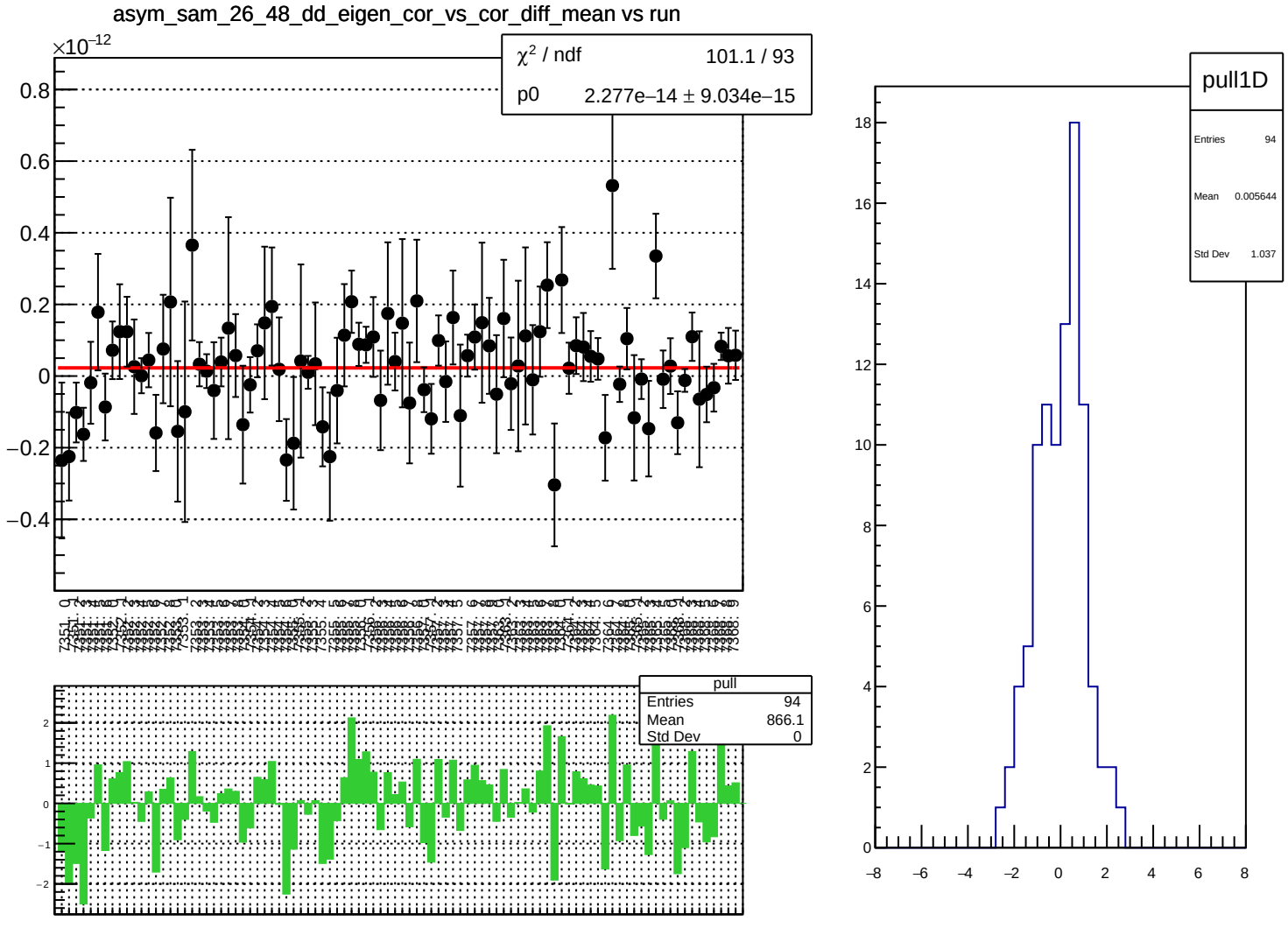

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.982e+04 / 93
p0 0.002085 ± 1.555e−06
0.0024
0.0022
0.002
0.0018
0.0016

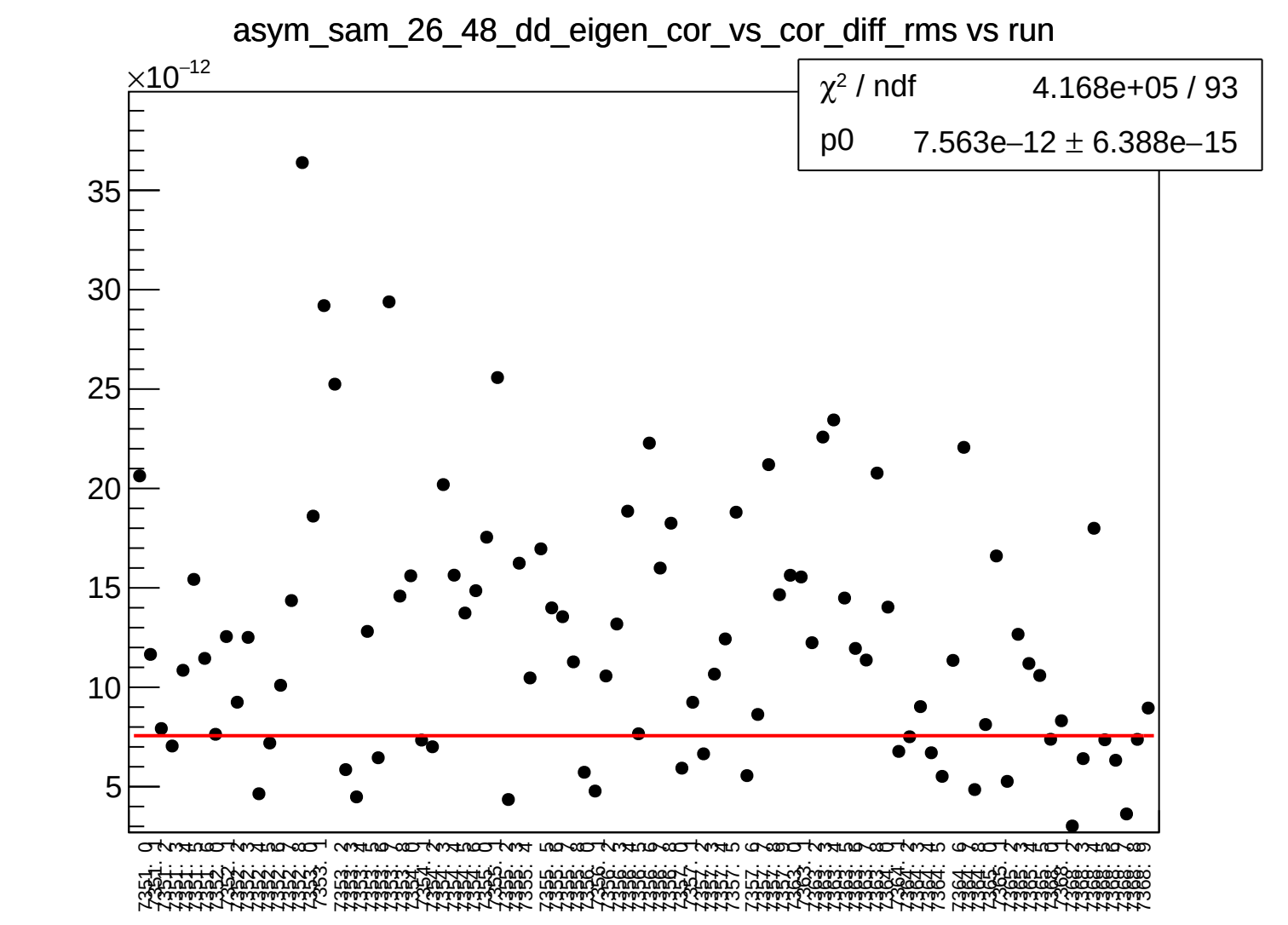

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 164 / 93
p0 0.07002 ± 0.1205
pull
Entries 94
Mean −115.6
Std Dev 0
pull1D
Entries 94
Mean −0.03221
Std Dev 1.32

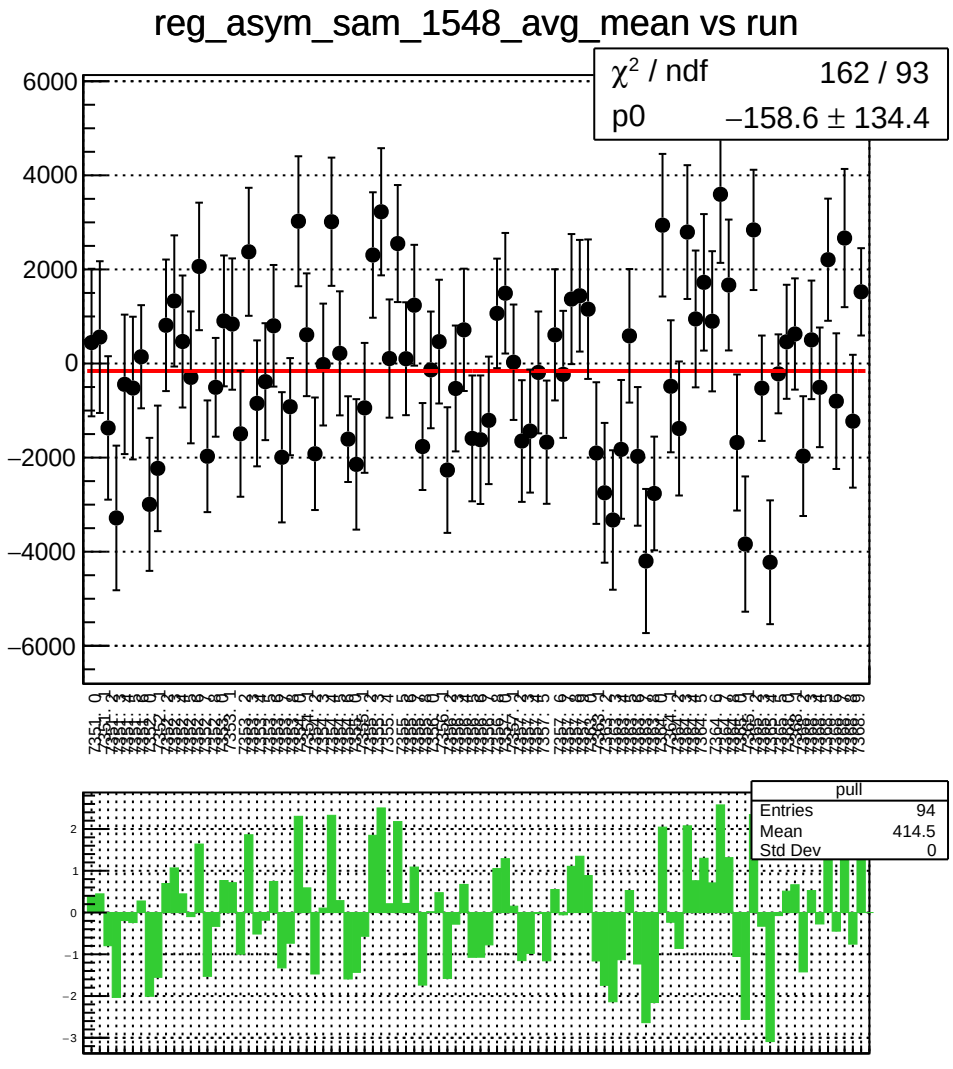

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.43e+04 / 93
p0 112.5 ± 0.08517
300
250
200
150
100
50

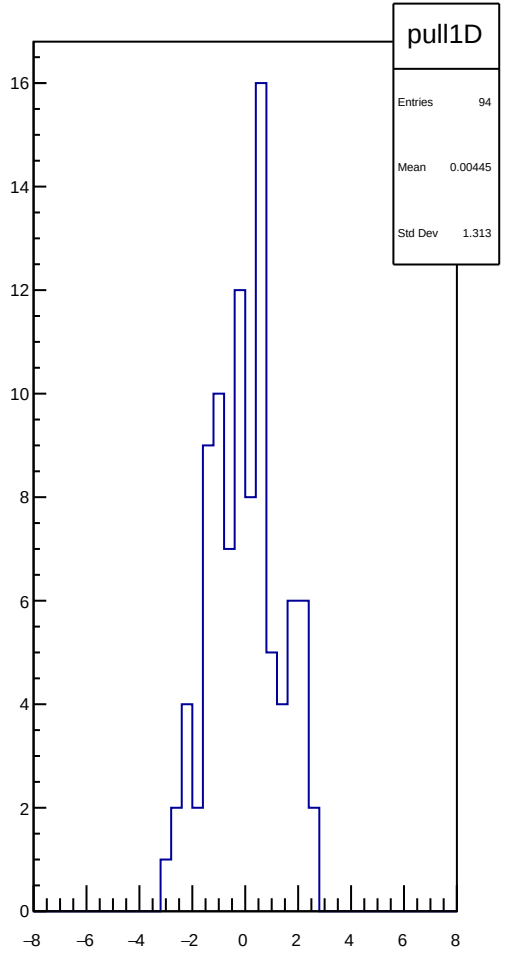

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 164 / 93
p0 0.07002 ± 0.1205
pull
Entries 94
Mean −115.6
Std Dev 0
pull1D
Entries 94
Mean −0.03221
Std Dev 1.32

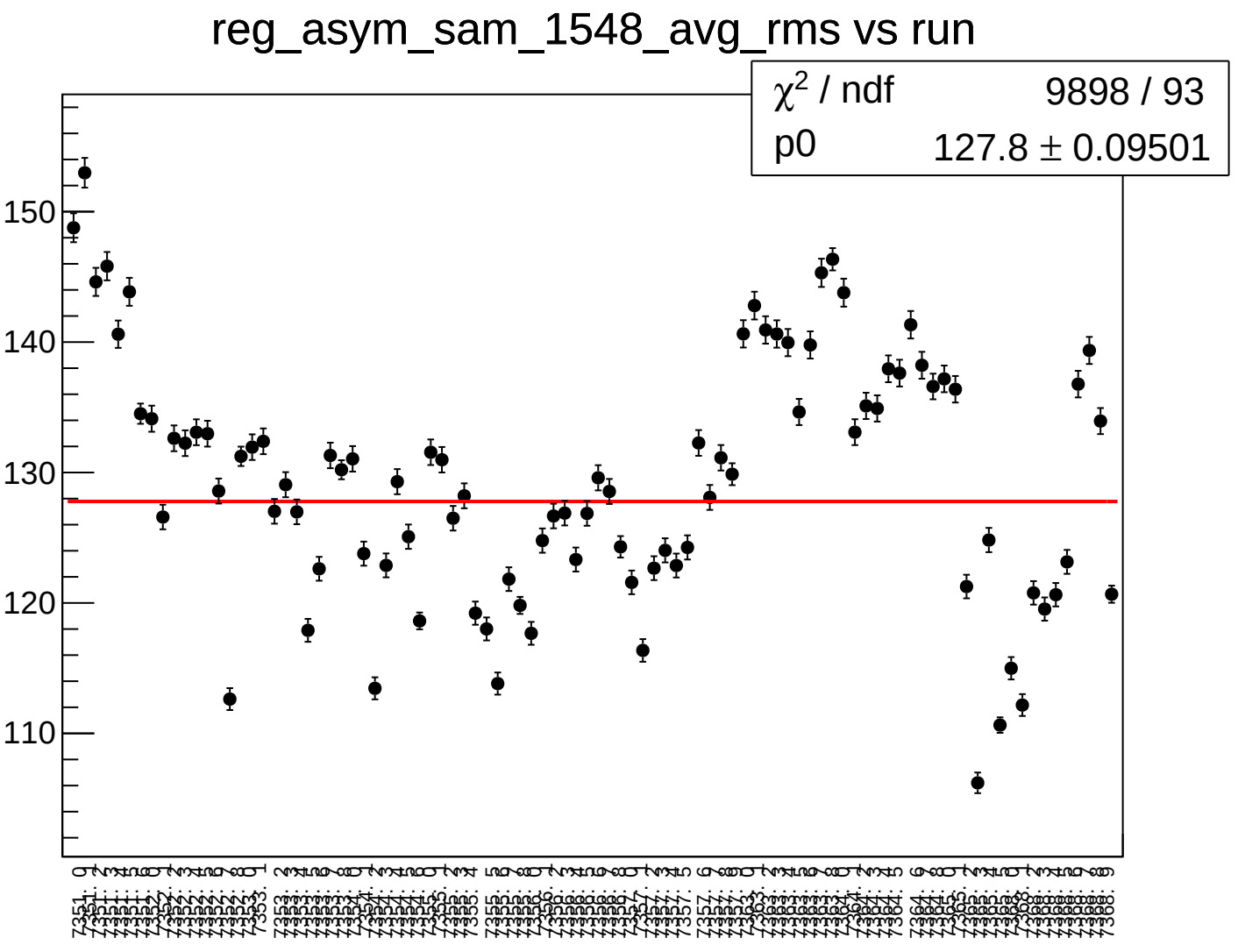

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.43e+04 / 93
p0 112.5 ± 0.08517
300
250
200
150
100
50

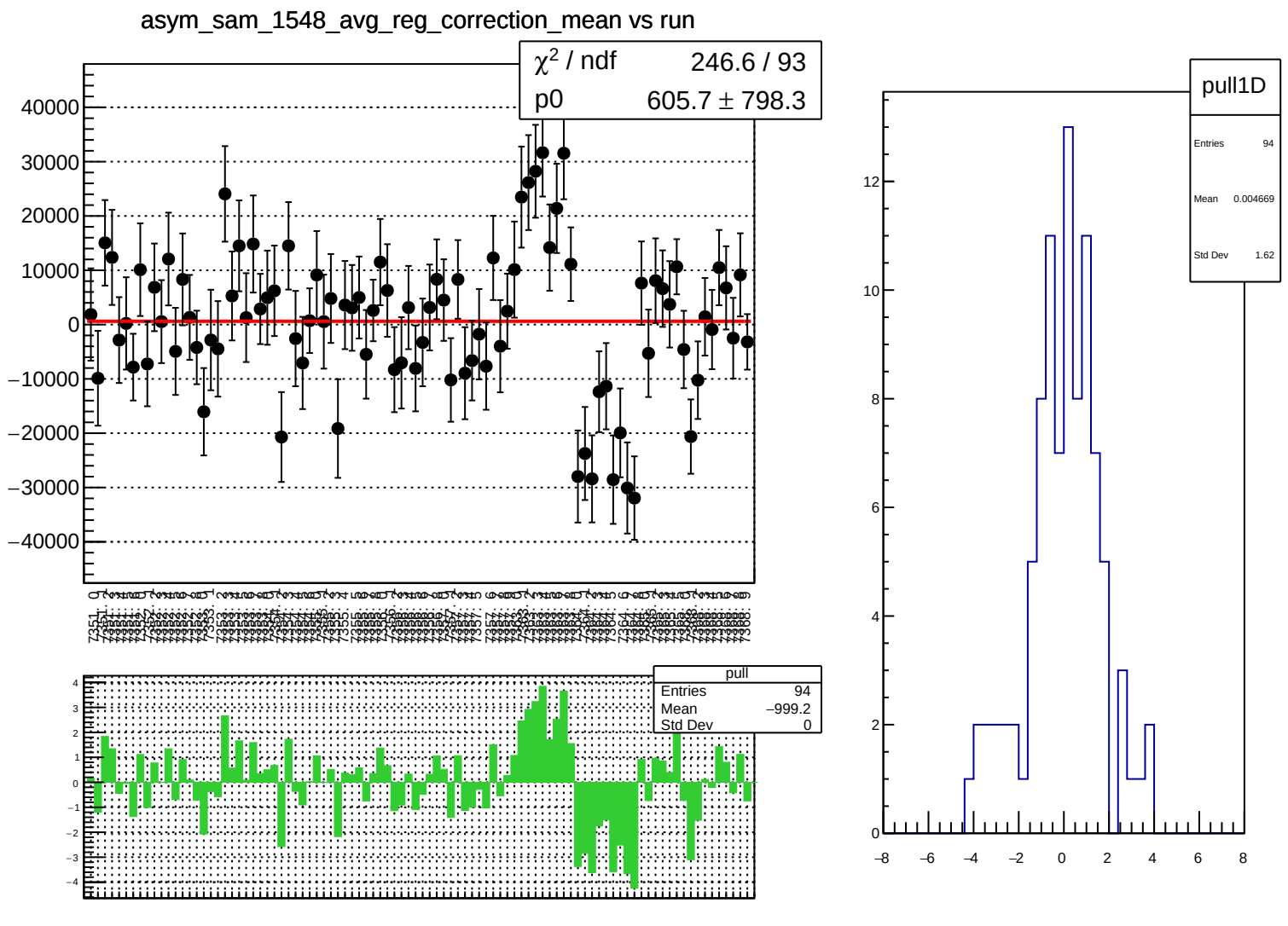

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 101.1 / 93
p0 2.277e−14 ± 9.034e−15
pull
Entries 94
Mean 866.1
Std Dev 0
pull1D
Entries 94
Mean 0.005644
Std Dev 1.037

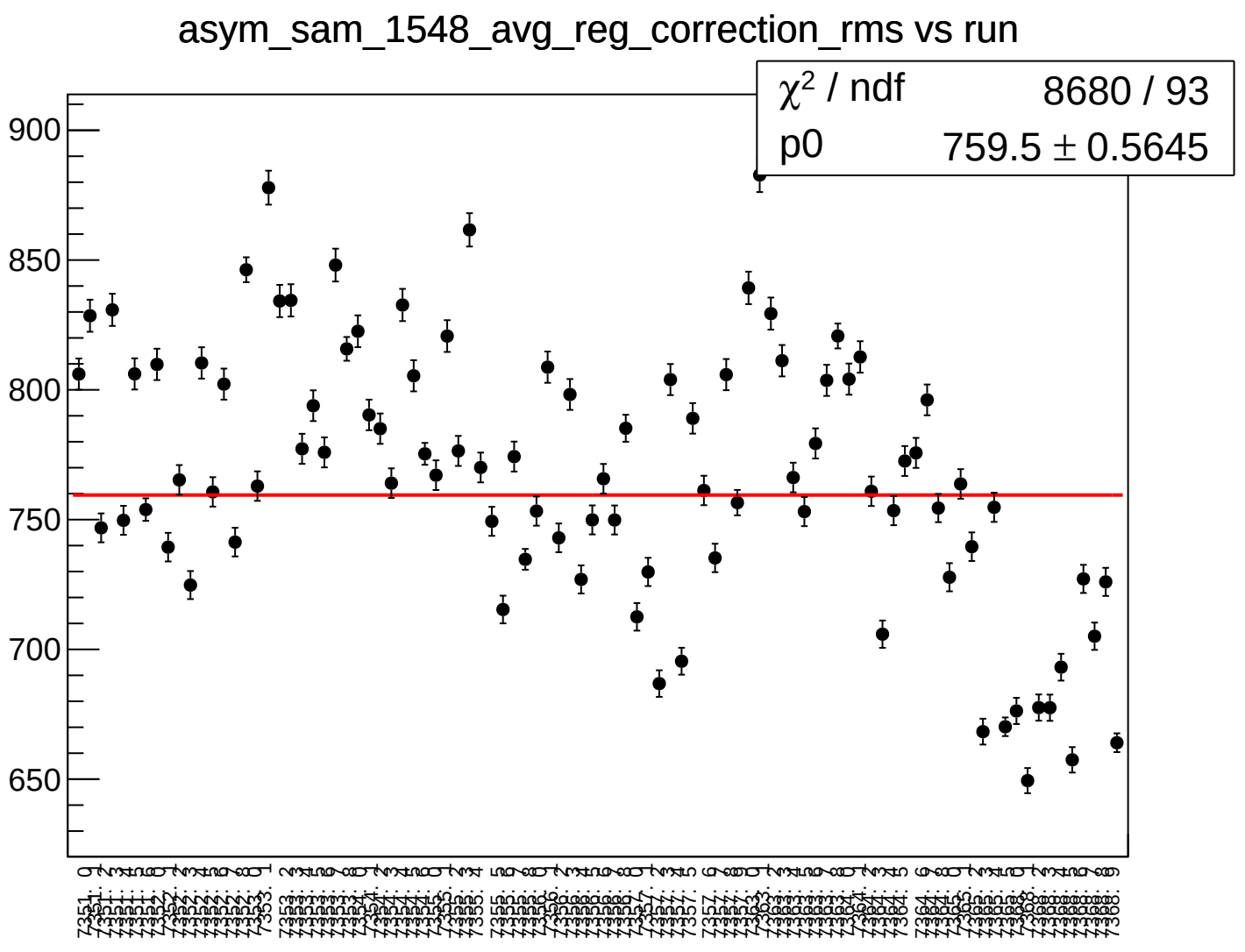

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.168e+05 / 93
p0 7.563e−12 ± 6.388e−15
35
30
25
20
15
10
5

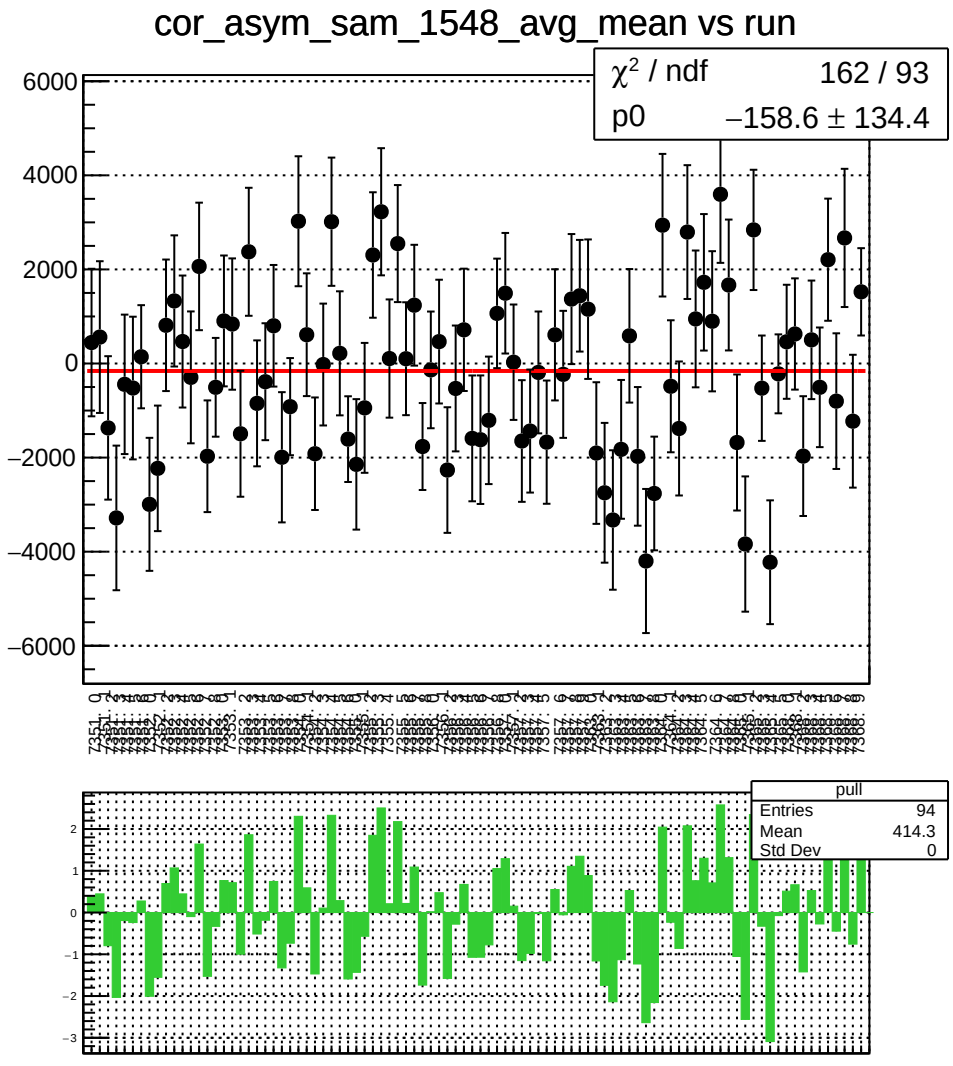

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 162 / 93
p0 −158.6 ± 134.4
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean 414.5
Std Dev 0
2
1
0
−1
−2
−3

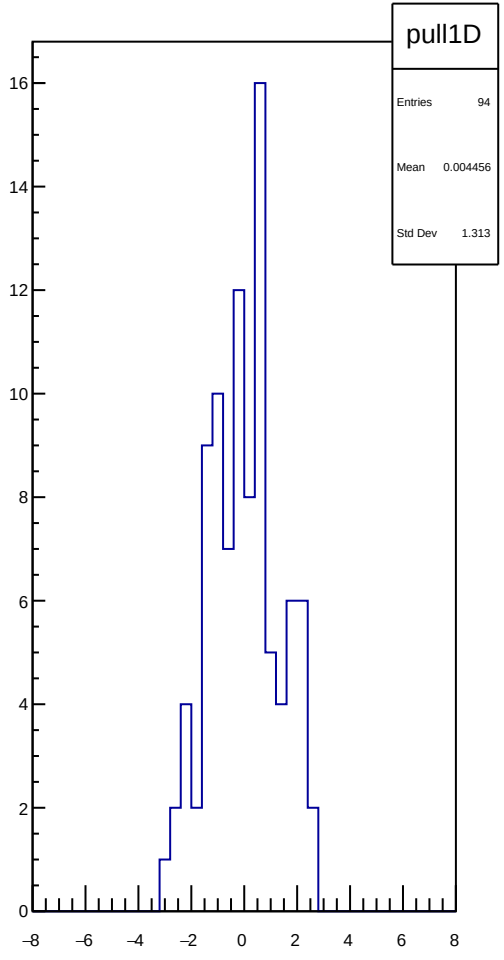

pull1D
Entries 94
Mean 0.00445
Std Dev 1.313
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

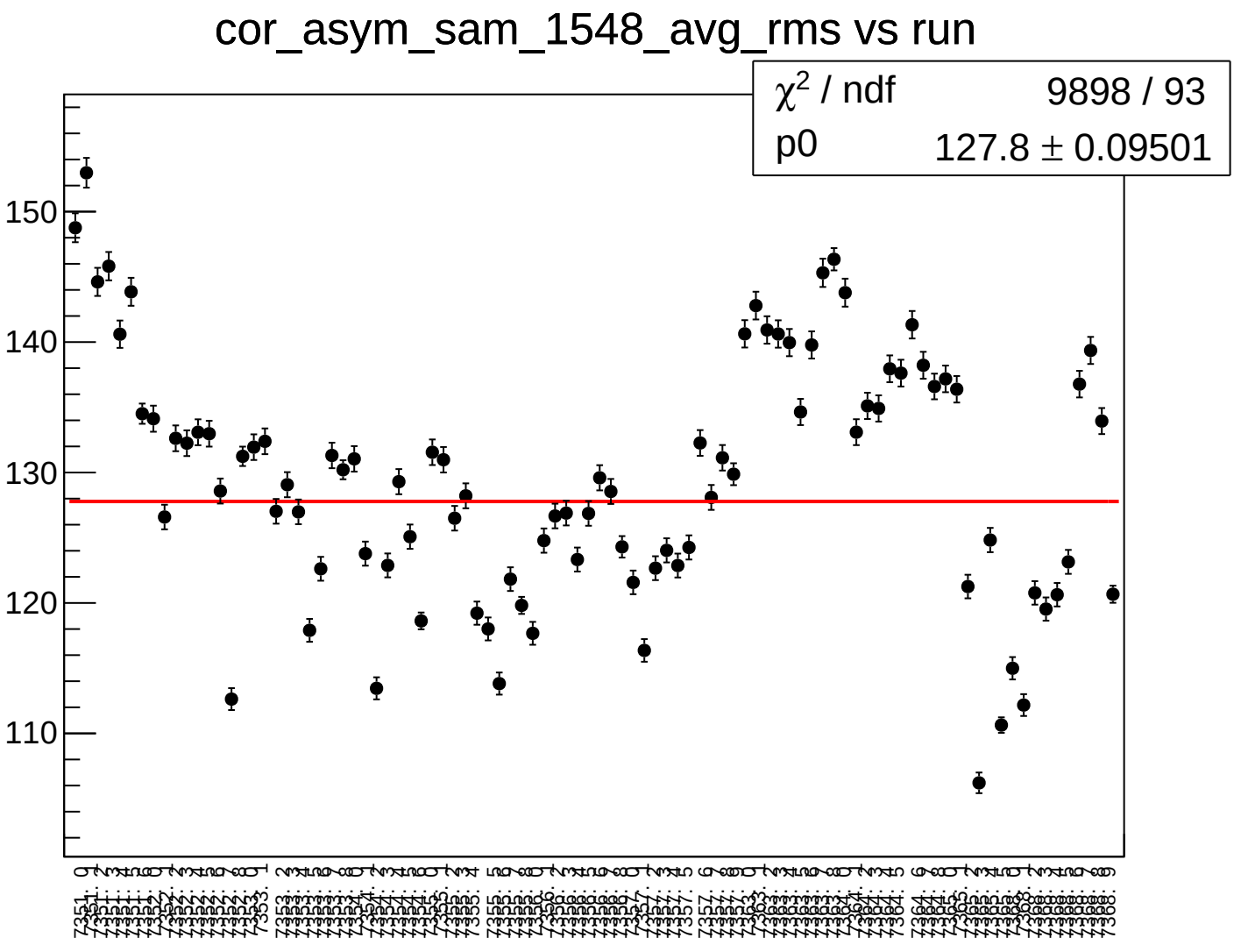

reg_asym_sam_1548_avg_rms vs run
χ^2 / ndf 9898 / 93
p0 127.8 ± 0.09501
150
140
130
120
110

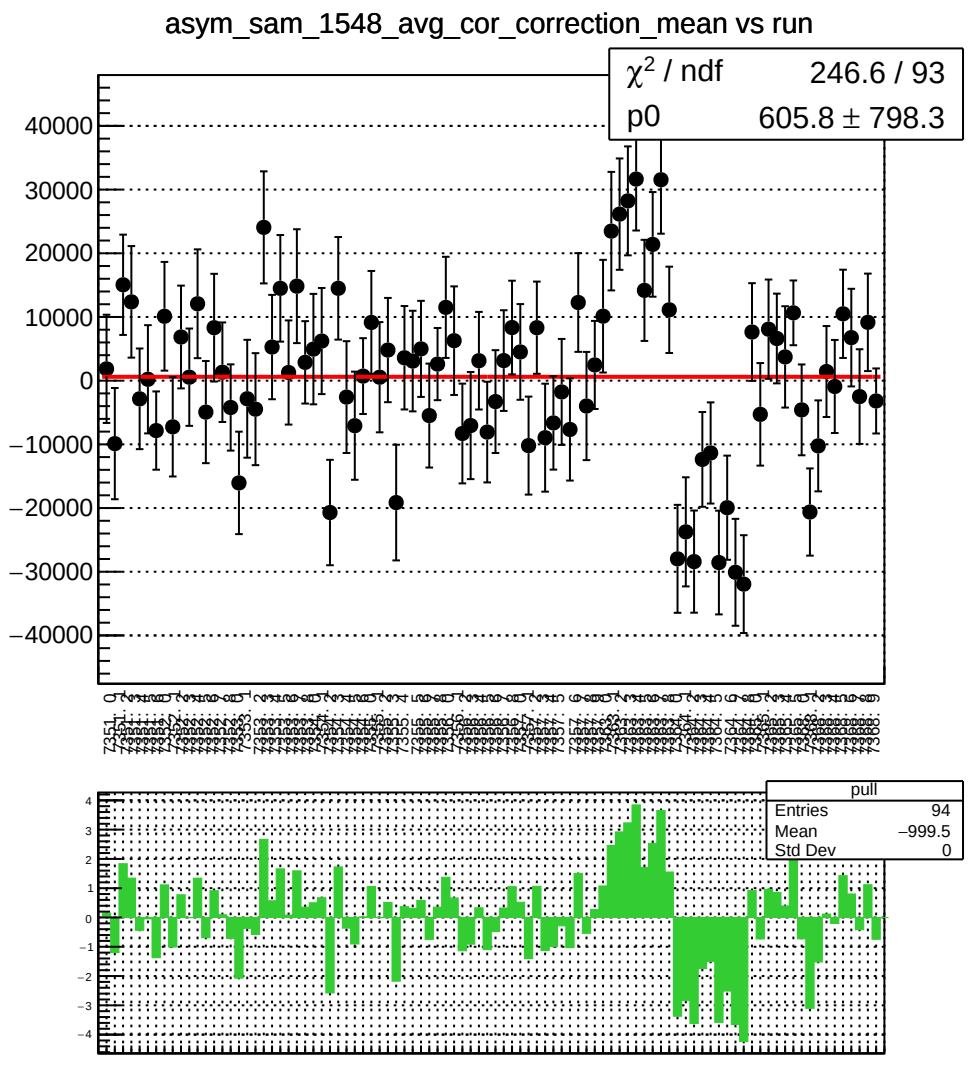

asym_sam_1548_avg_reg_correction_mean vs run
χ² / ndf 246.6 / 93
p0 605.7 ± 798.3
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 94
Mean −999.2
Std Dev 0
pull1D
Entries 94
Mean 0.004669
Std Dev 1.62
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

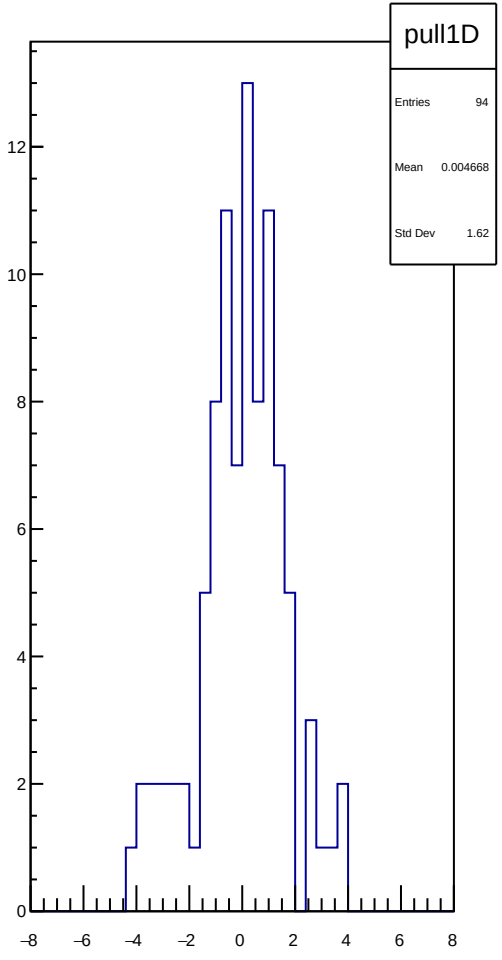

asym_sam_1548_avg_reg_correction_rms vs run
χ² / ndf 8680 / 93
p0 759.5 ± 0.5645
900
850
800
750
700
650

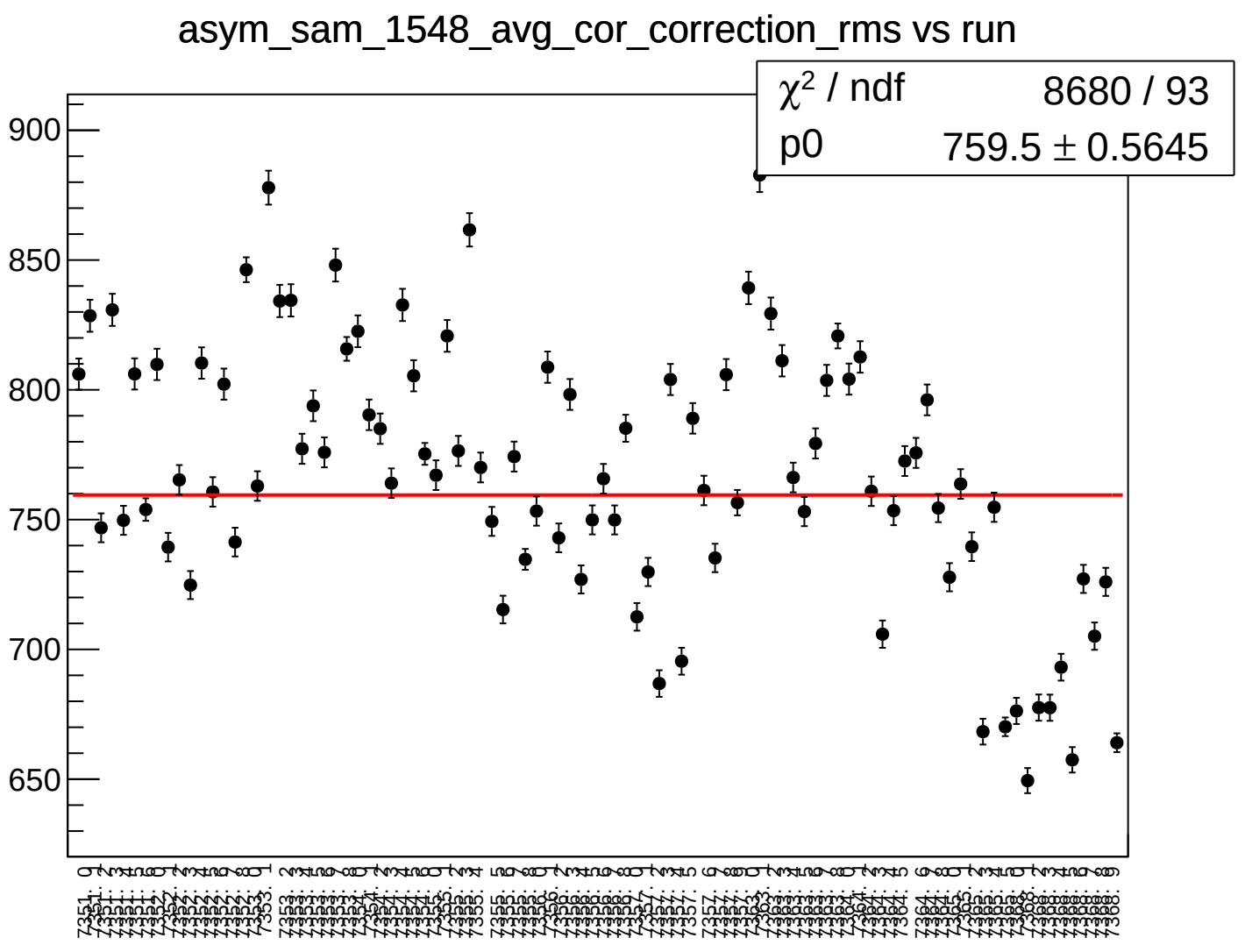

cor_asym_sam_1548_avg_mean vs run
χ² / ndf 162 / 93
p0 −158.6 ± 134.4
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean 414.3
Std Dev 0
2
1
0
−1
−2
−3

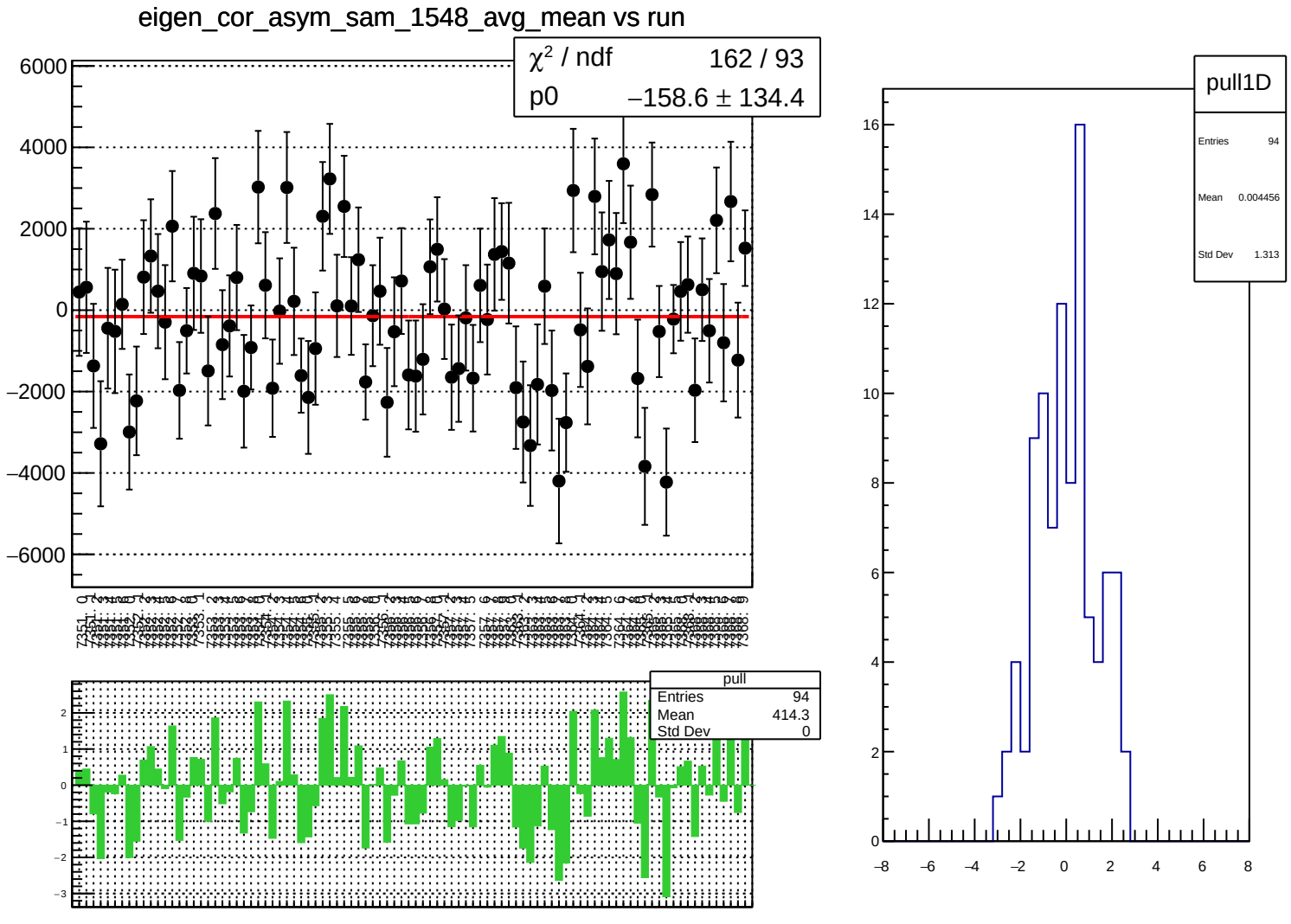

pull1D
Entries 94
Mean 0.004456
Std Dev 1.313
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

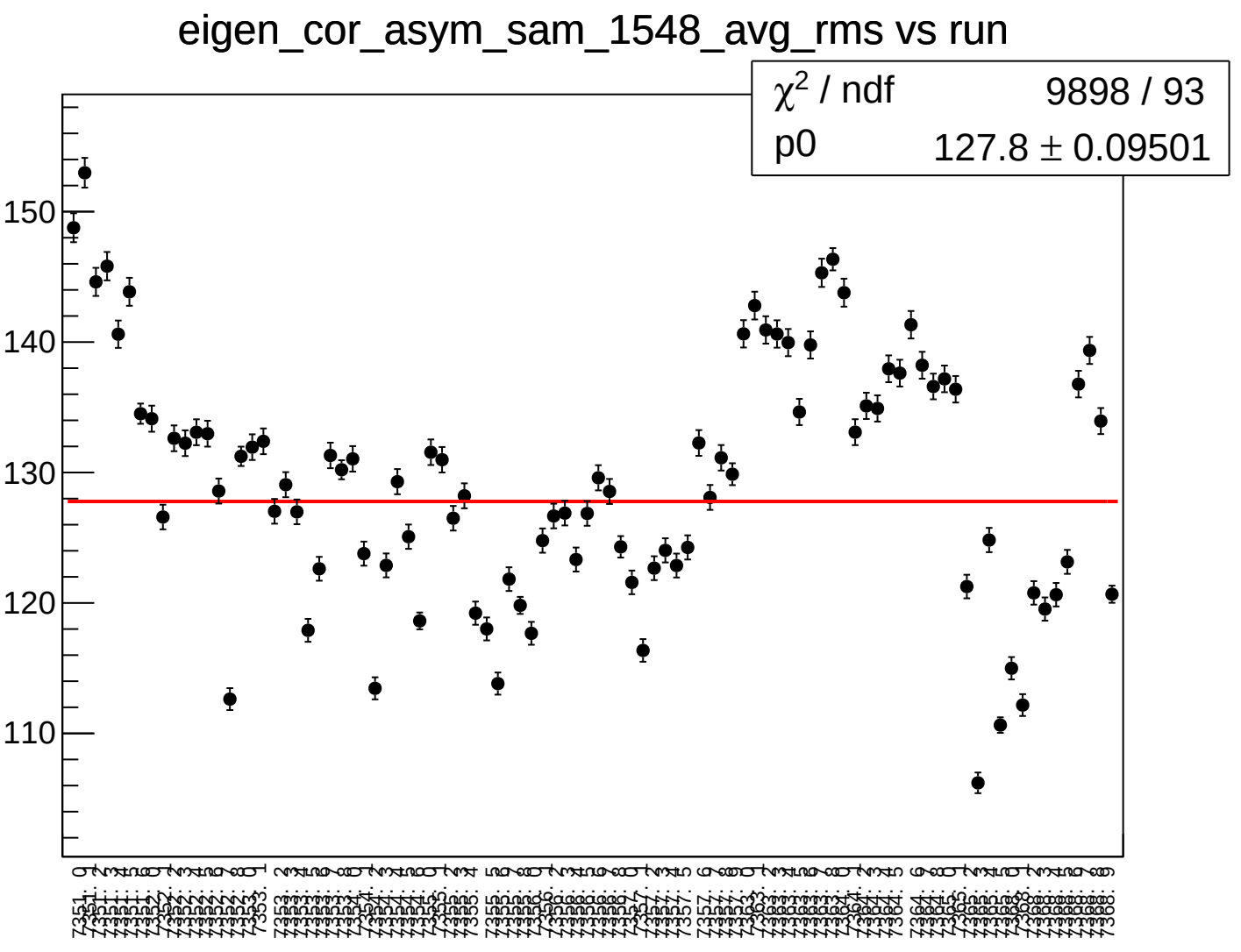

cor_asym_sam_1548_avg_rms vs run
χ^2 / ndf 9898 / 93
p0 127.8 ± 0.09501
150
140
130
120
110

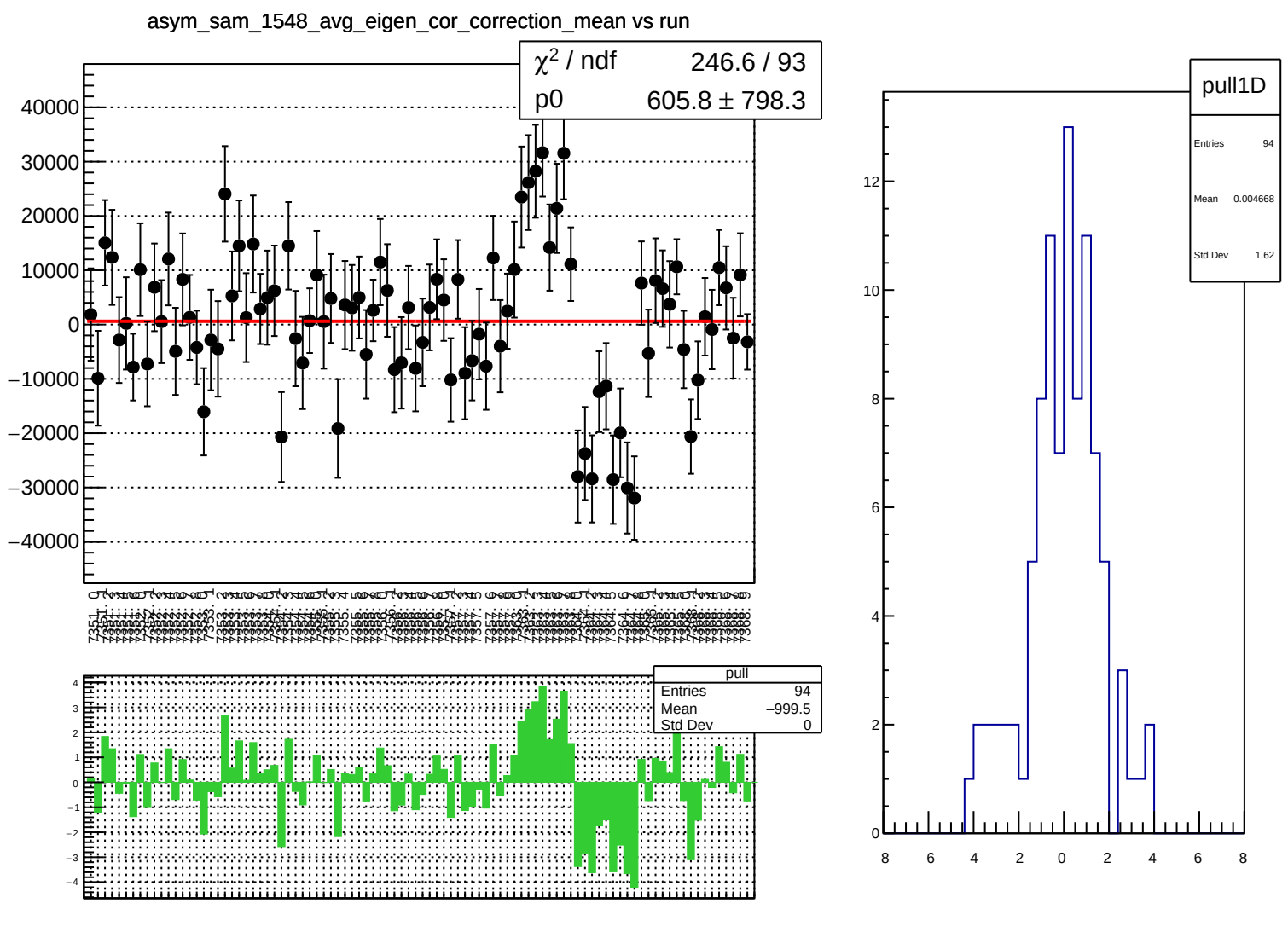

asym_sam_1548_avg_cor_correction_mean vs run
χ² / ndf 246.6 / 93
p0 605.8 ± 798.3
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 94
Mean −999.5
Std Dev 0

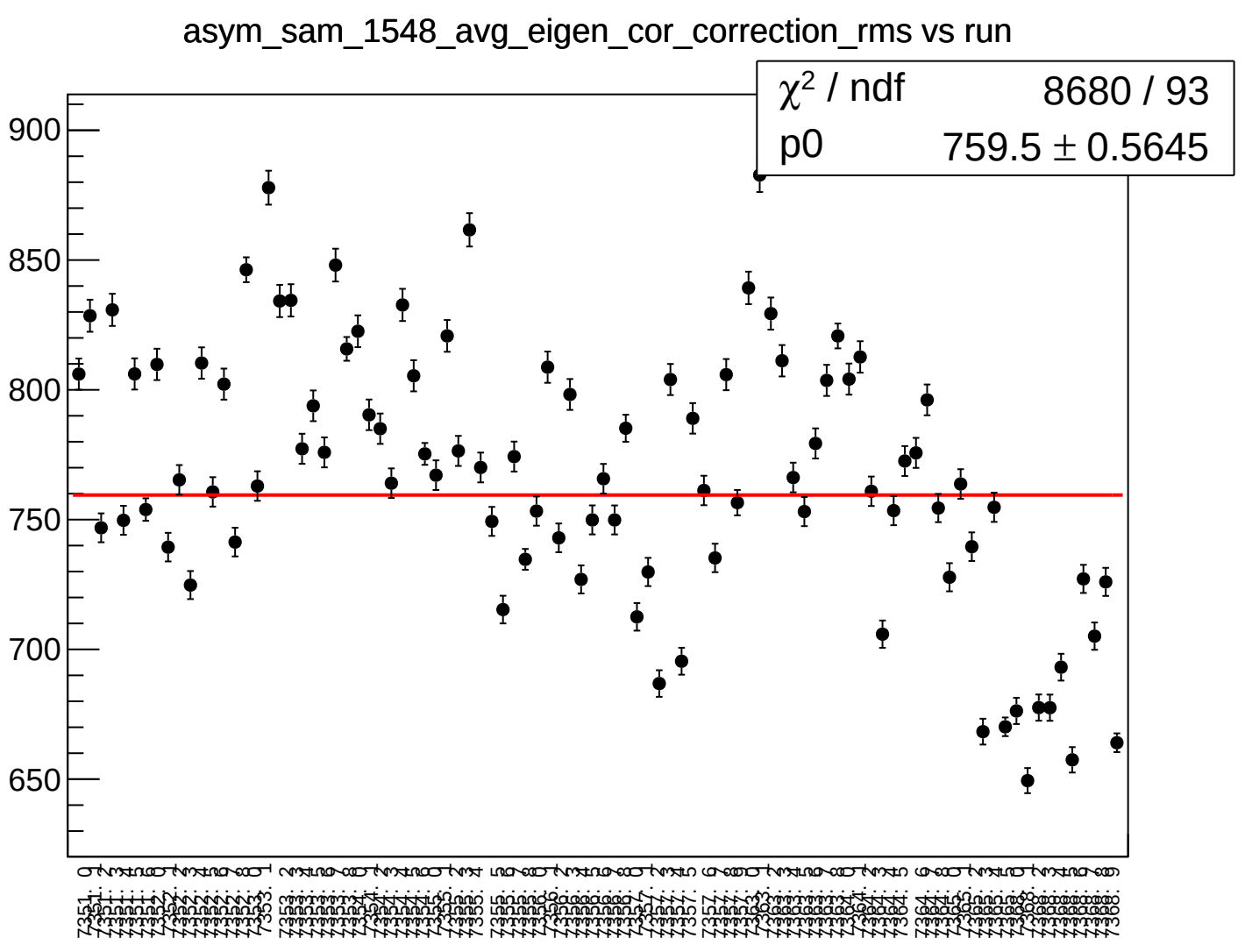

pull1D
Entries 94
Mean 0.004668
Std Dev 1.62
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

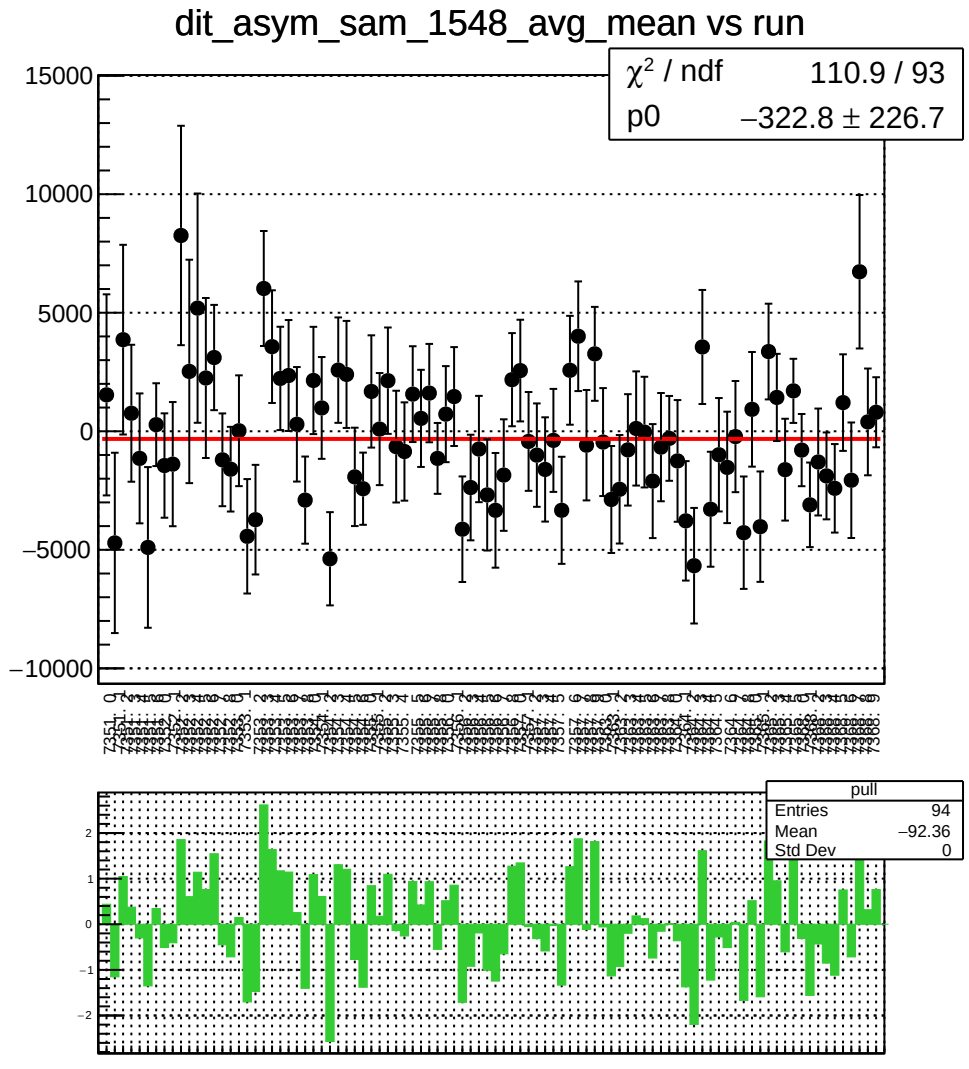

asym_sam_1548_avg_cor_correction_rms vs run
χ² / ndf 8680 / 93
p0 759.5 ± 0.5645
900
850
800
750
700
650

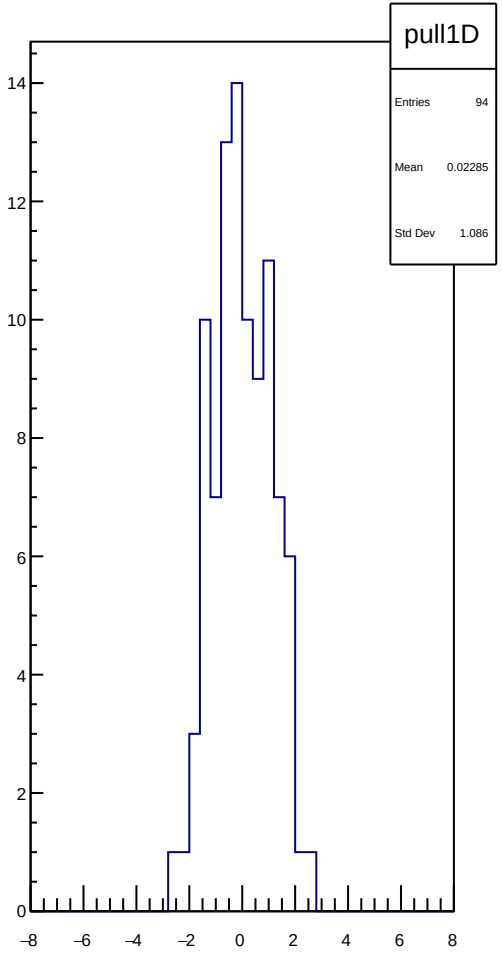

eigen_cor_asym_sam_1548_avg_mean vs run
χ² / ndf 162 / 93
p0 −158.6 ± 134.4
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean 414.3
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.004456
Std Dev 1.313
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

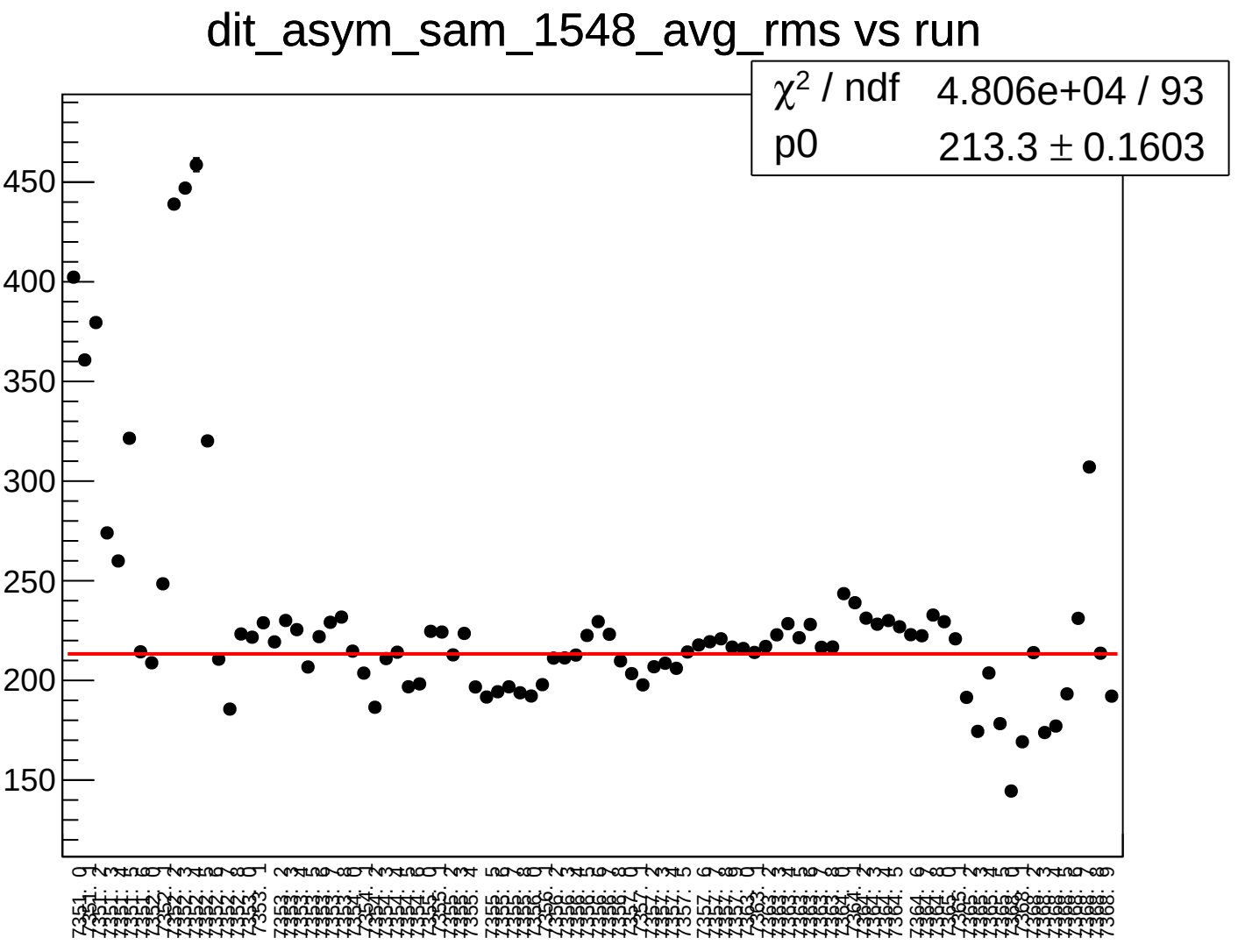

eigen_cor_asym_sam_1548_avg_rms vs run
χ^2 / ndf 9898 / 93
p0 127.8 ± 0.09501
150
140
130
120
110

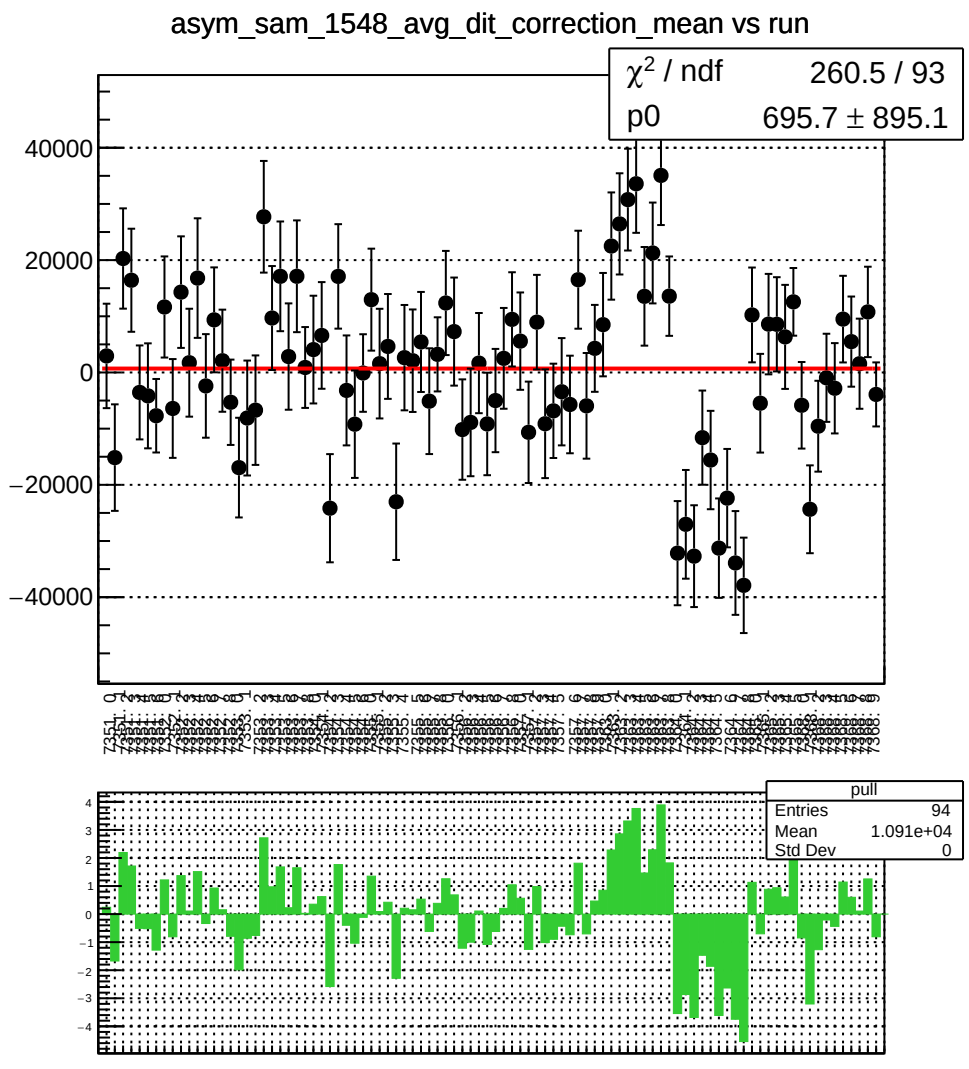

asym_sam_1548_avg_eigen_cor_correction_mean vs run
χ² / ndf 246.6 / 93
p0 605.8 ± 798.3
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 94
Mean −999.5
Std Dev 0
pull1D
Entries 94
Mean 0.004668
Std Dev 1.62
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

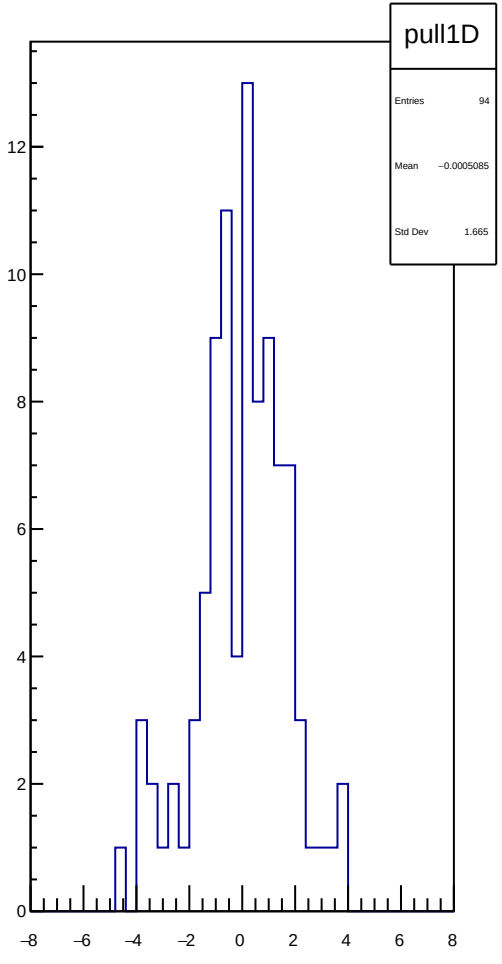

asym_sam_1548_avg_eigen_cor_correction_rms vs run
χ² / ndf 8680 / 93
p0 759.5 ± 0.5645
900
850
800
750
700
650

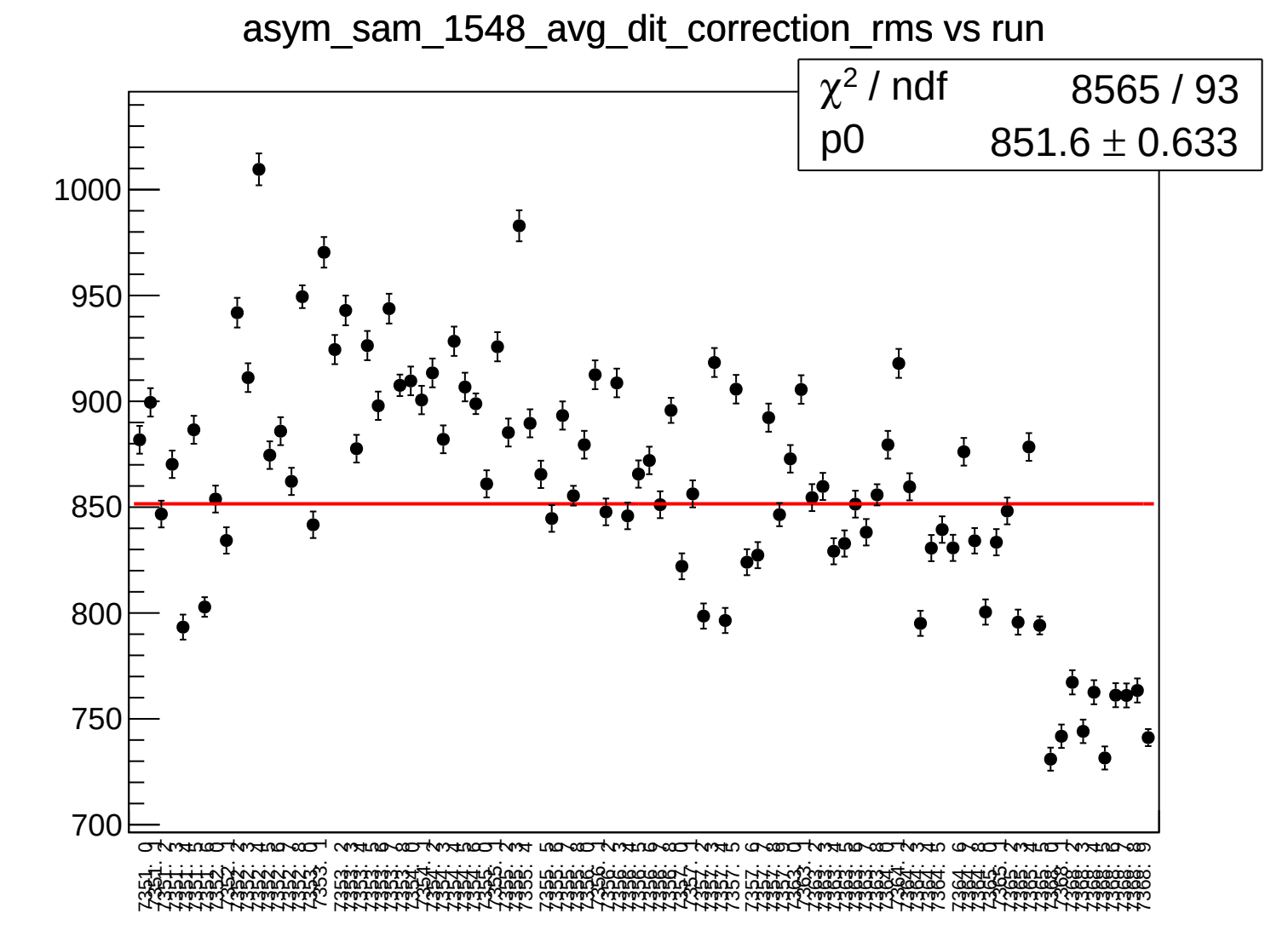

dit_asym_sam_1548_avg_mean vs run
χ² / ndf 110.9 / 93
p0 −322.8 ± 226.7
15000
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −92.36
Std Dev 0
2
1
0
−1
−2

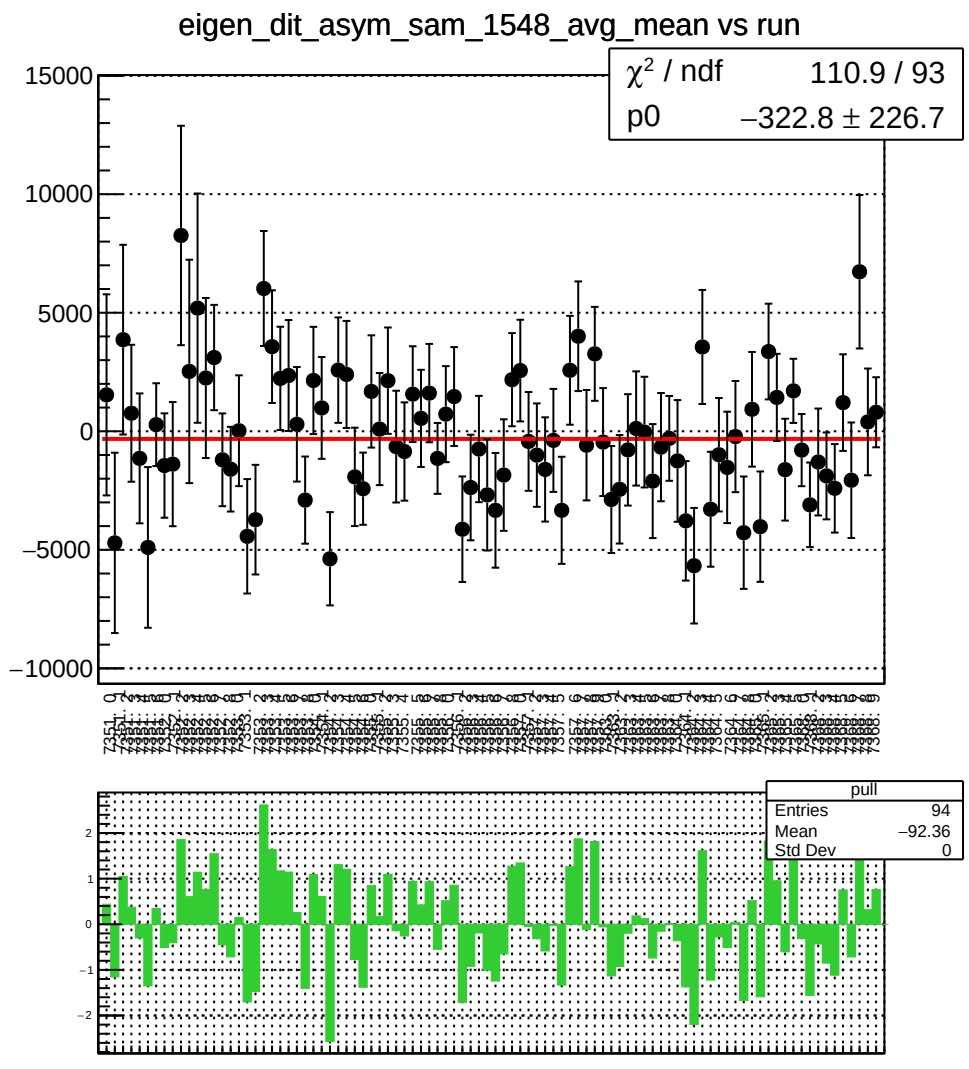

pull1D
Entries 94
Mean 0.02285
Std Dev 1.086
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

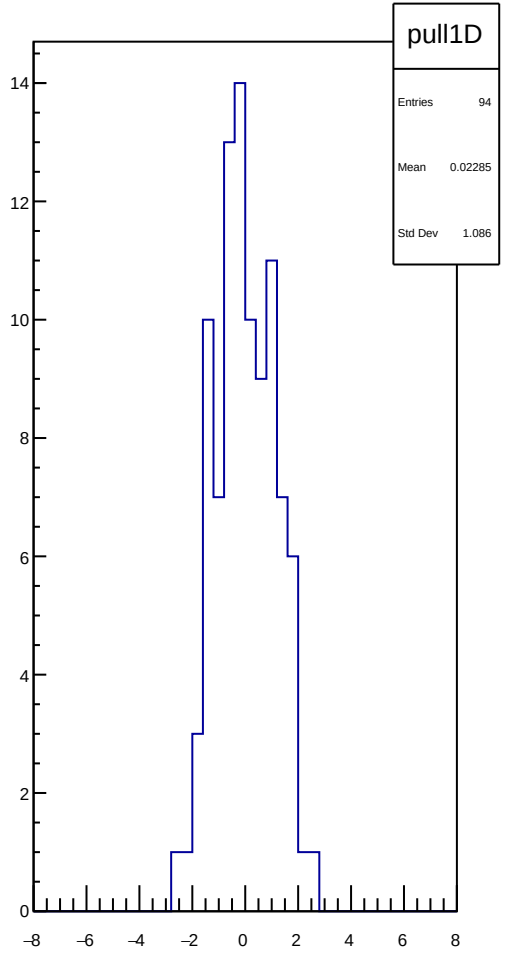

dit_asym_sam_1548_avg_rms vs run
χ^2 / ndf 4.806e+04 / 93
p0 213.3 ± 0.1603
450
400
350
300
250
200
150

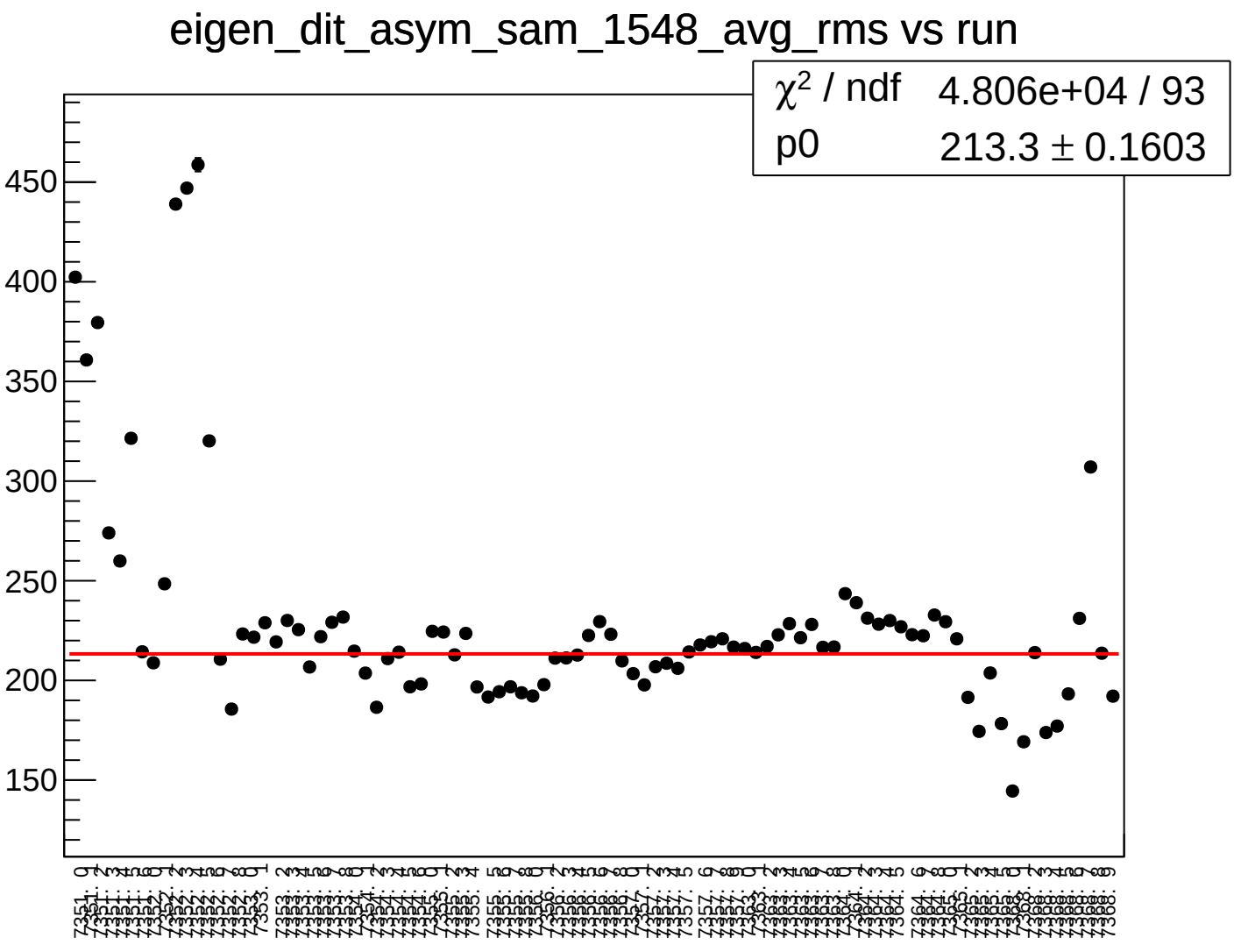

asym_sam_1548_avg_dit_correction_mean vs run
χ² / ndf 260.5 / 93
p0 695.7 ± 895.1
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 1.091e+04
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4

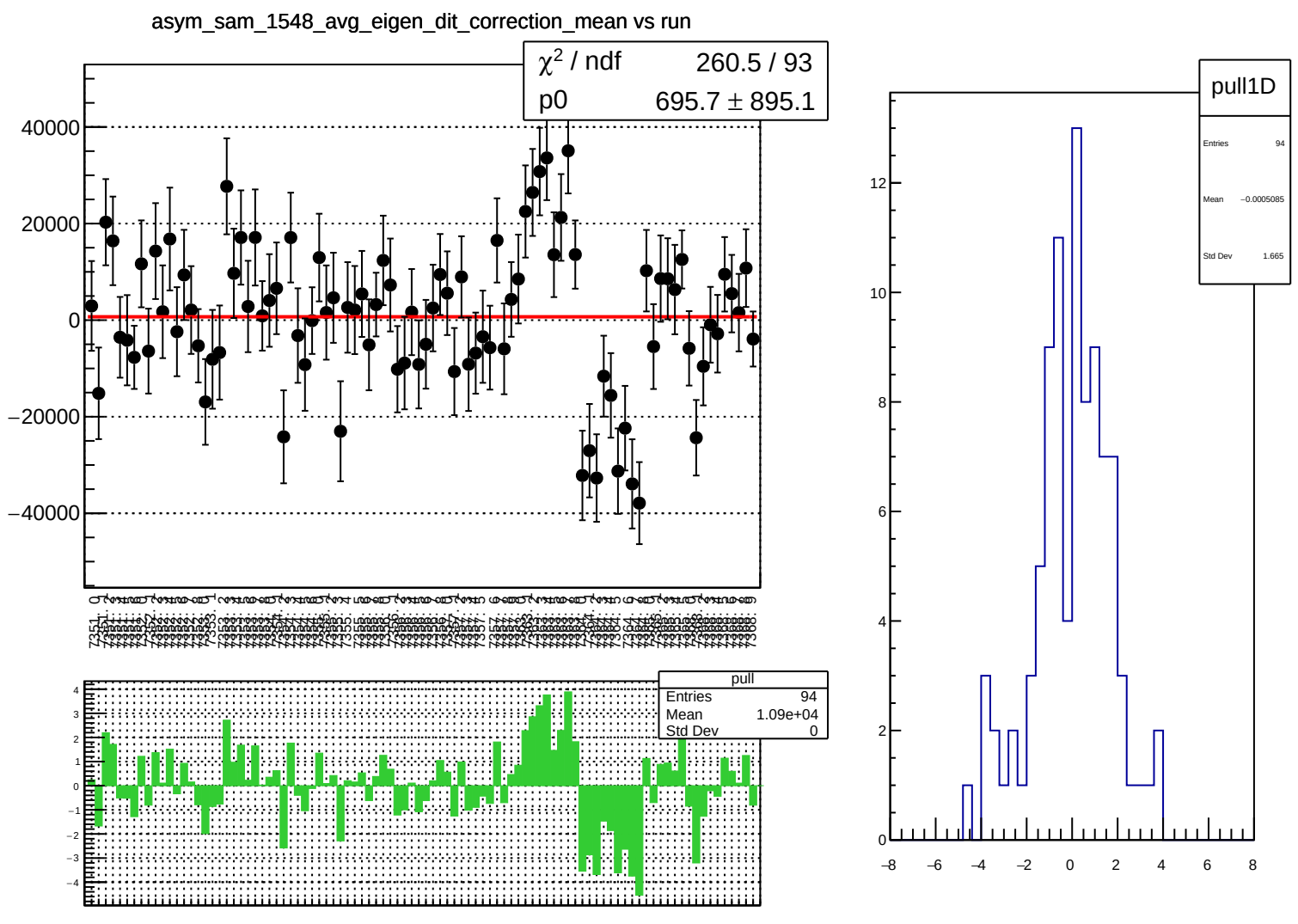

pull1D
Entries 94
Mean −0.0005085
Std Dev 1.665
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

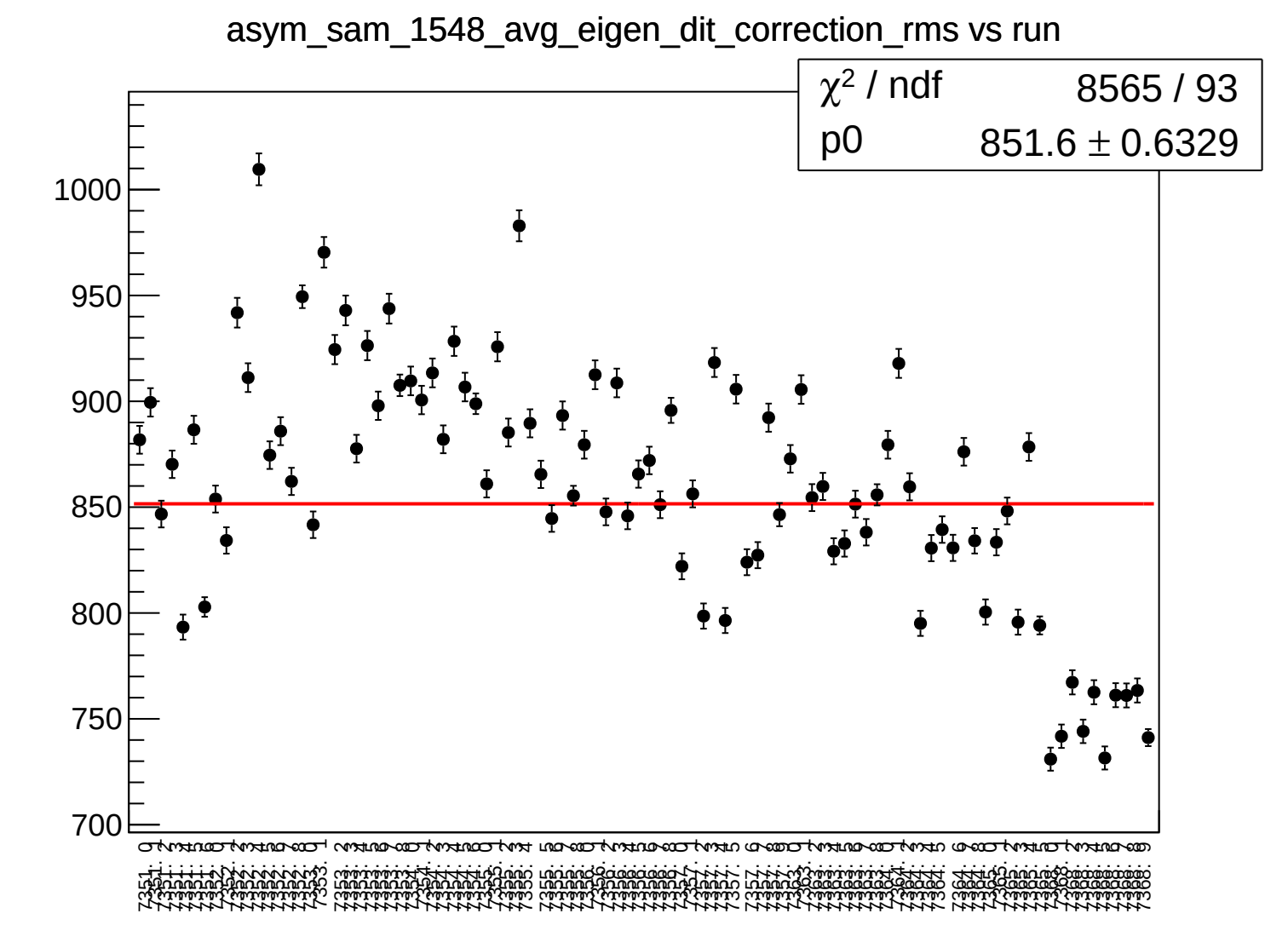

asym_sam_1548_avg_dit_correction_rms vs run
χ² / ndf 8565 / 93
p0 851.6 ± 0.633
1000
950
900
850
800
750
700

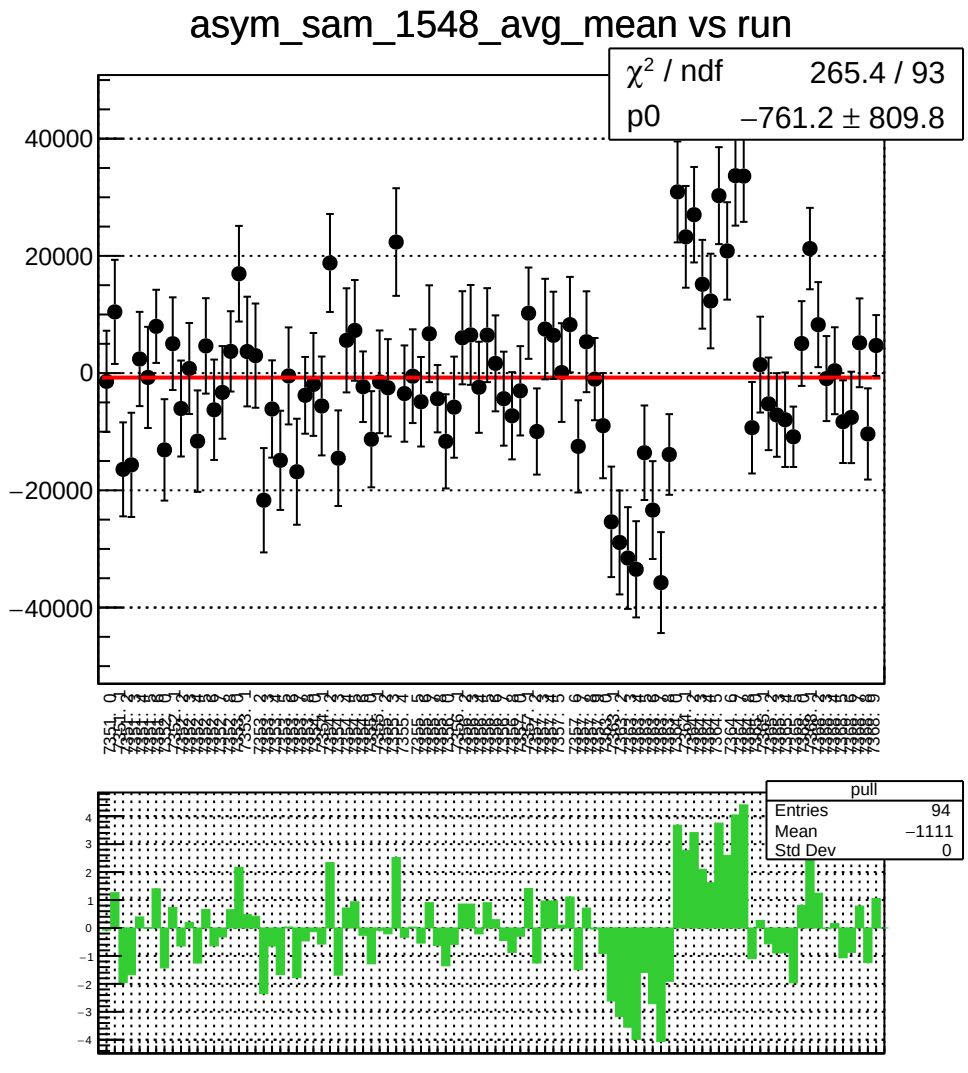

eigen_dit_asym_sam_1548_avg_mean vs run
χ² / ndf 110.9 / 93
p0 −322.8 ± 226.7
15000
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −92.36
Std Dev 0
2
1
0
−1
−2

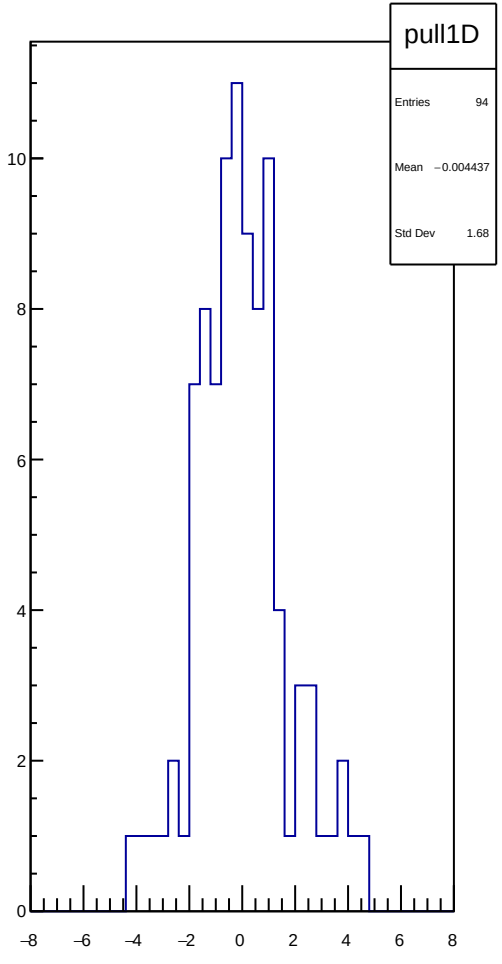

pull1D
Entries 94
Mean 0.02285
Std Dev 1.086
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

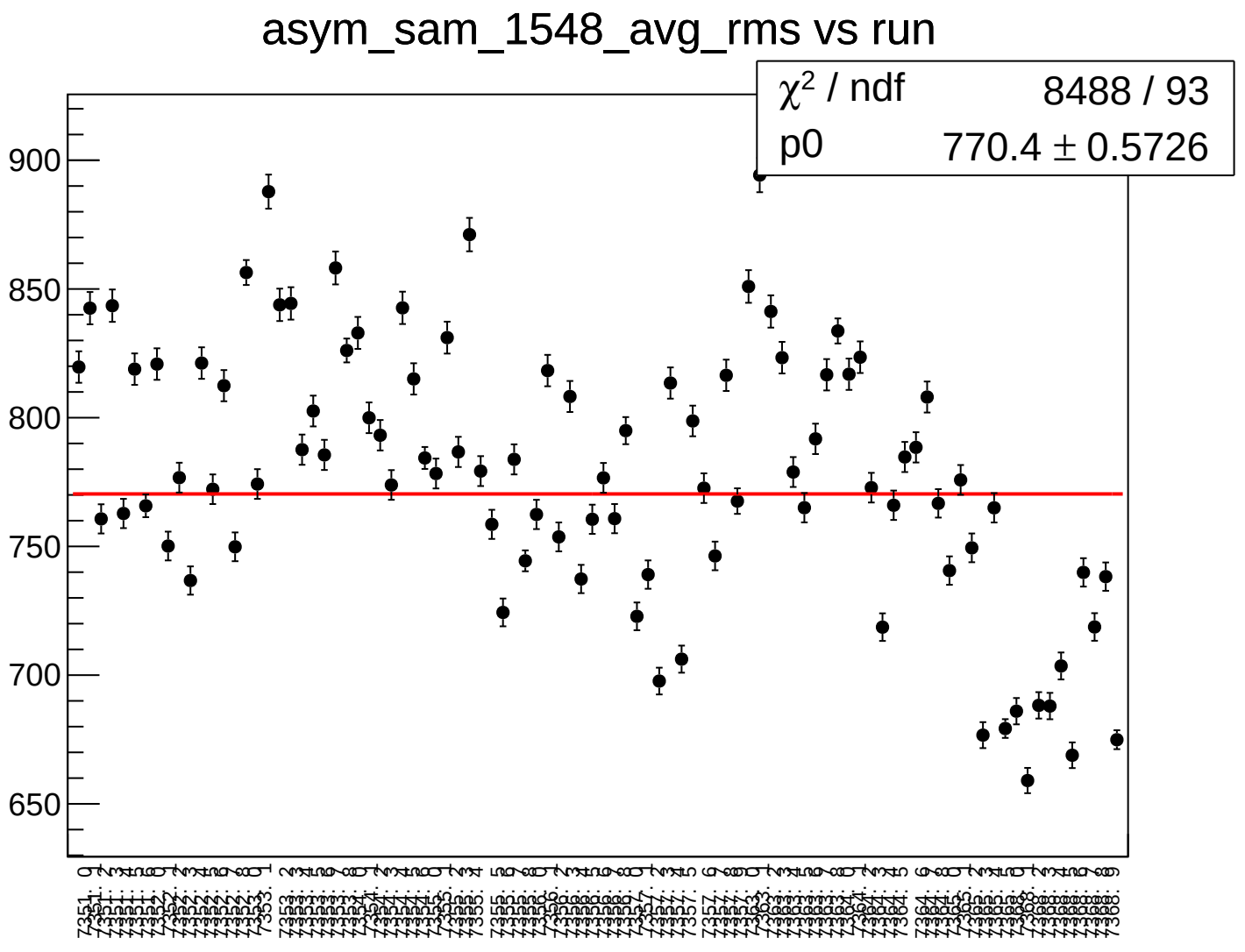

eigen_dit_asym_sam_1548_avg_rms vs run
χ^2 / ndf 4.806e+04 / 93
p0 213.3 ± 0.1603
450
400
350
300
250
200
150

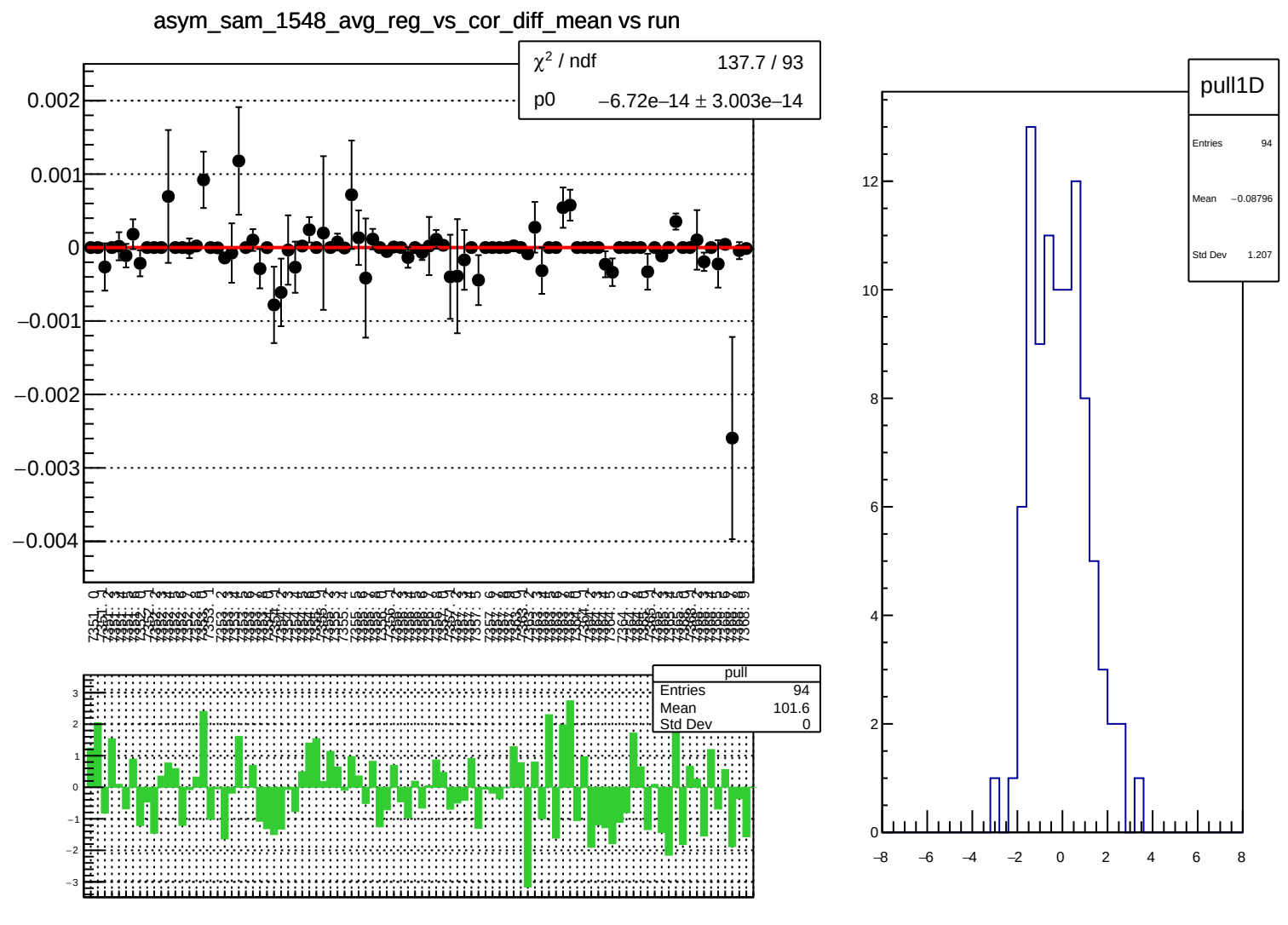

asym_sam_1548_avg_eigen_dit_correction_mean vs run
χ² / ndf 260.5 / 93
p0 695.7 ± 895.1
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 1.09e+04
Std Dev 0
pull1D
Entries 94
Mean −0.0005085
Std Dev 1.665
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

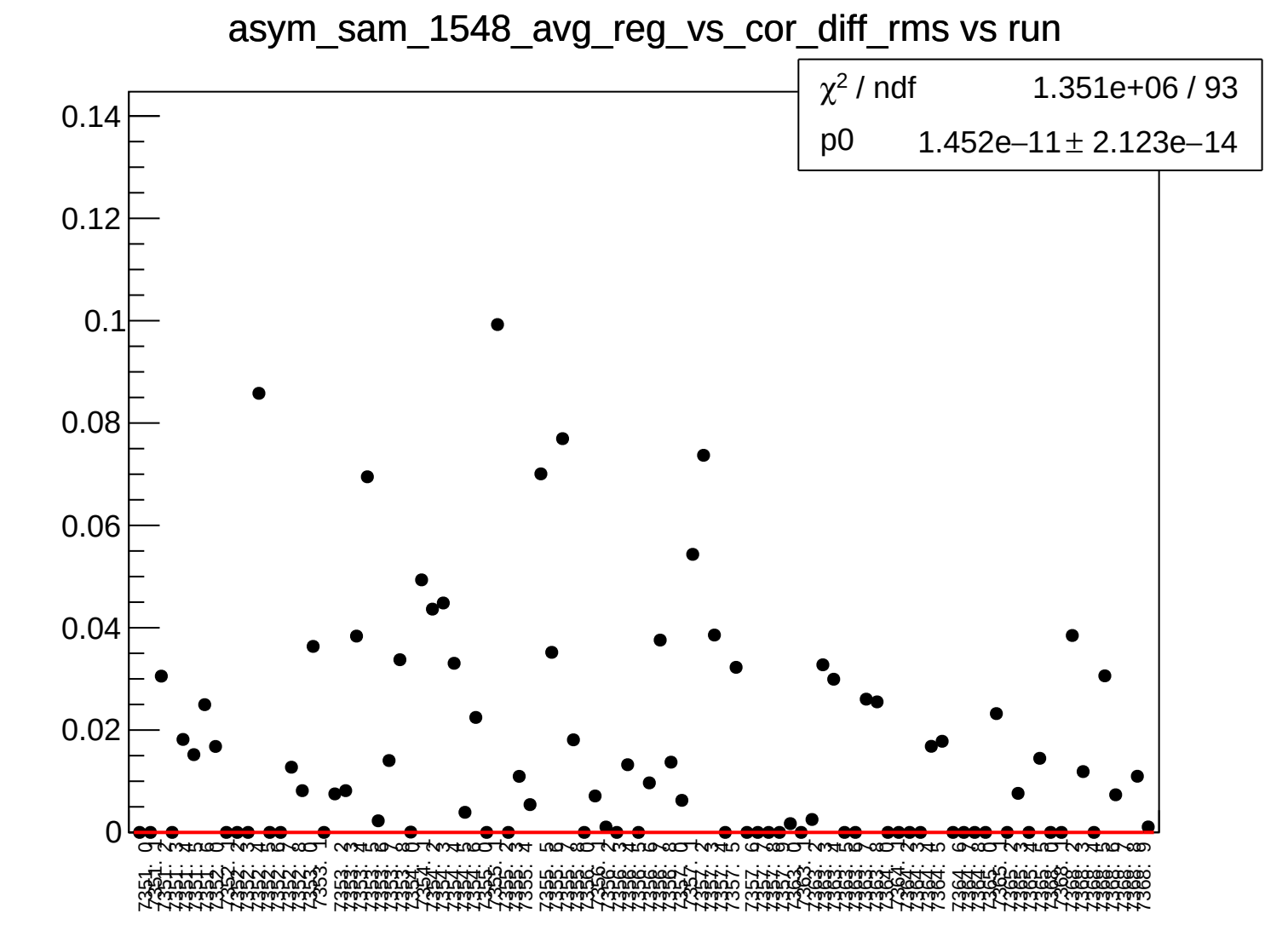

asym_sam_1548_avg_eigen_dit_correction_rms vs run
χ² / ndf 8565 / 93
p0 851.6 ± 0.6329
1000
950
900
850
800
750
700

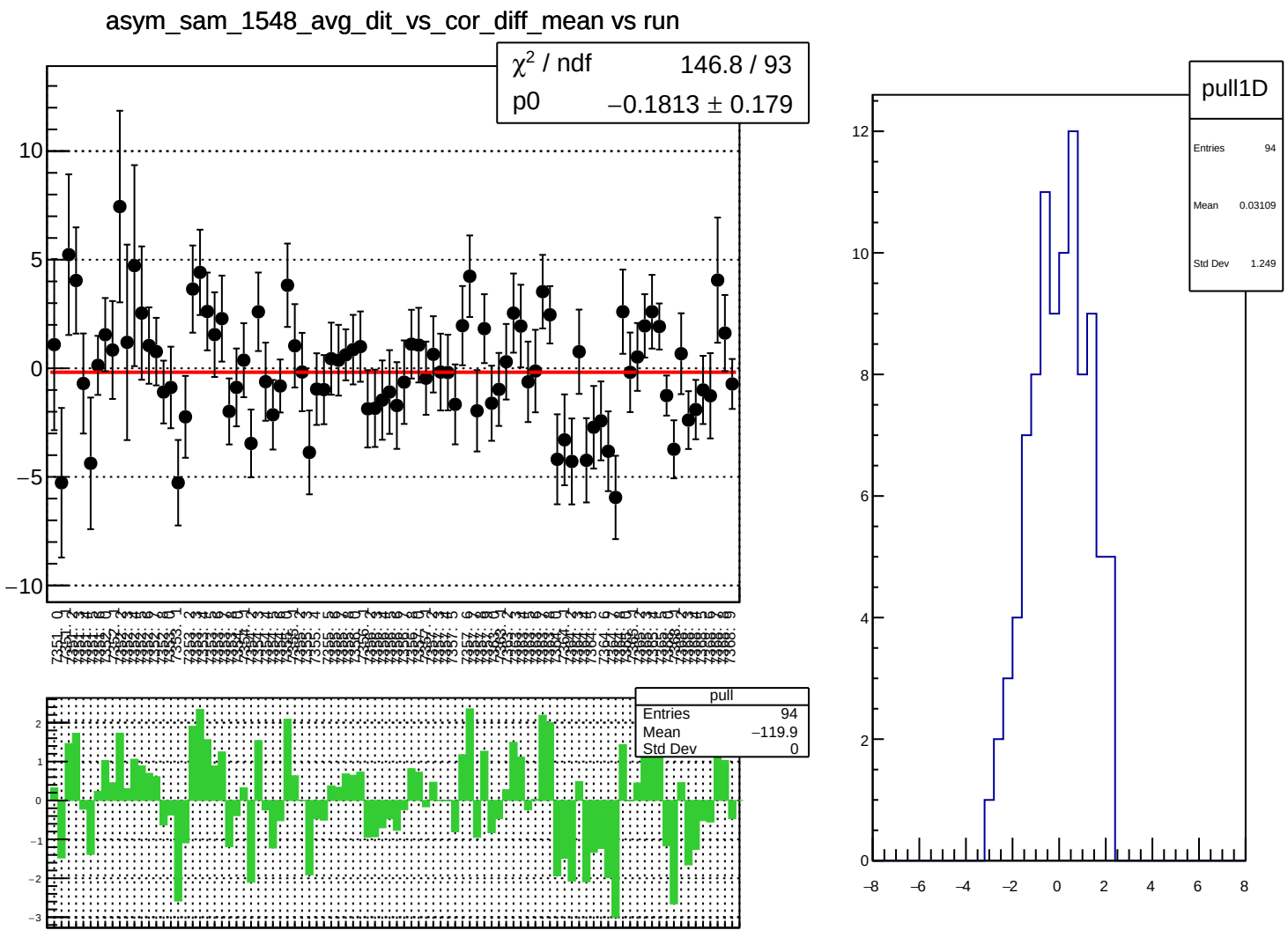

asym_sam_1548_avg_mean vs run
χ² / ndf 265.4 / 93
p0 −761.2 ± 809.8
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −1111
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4

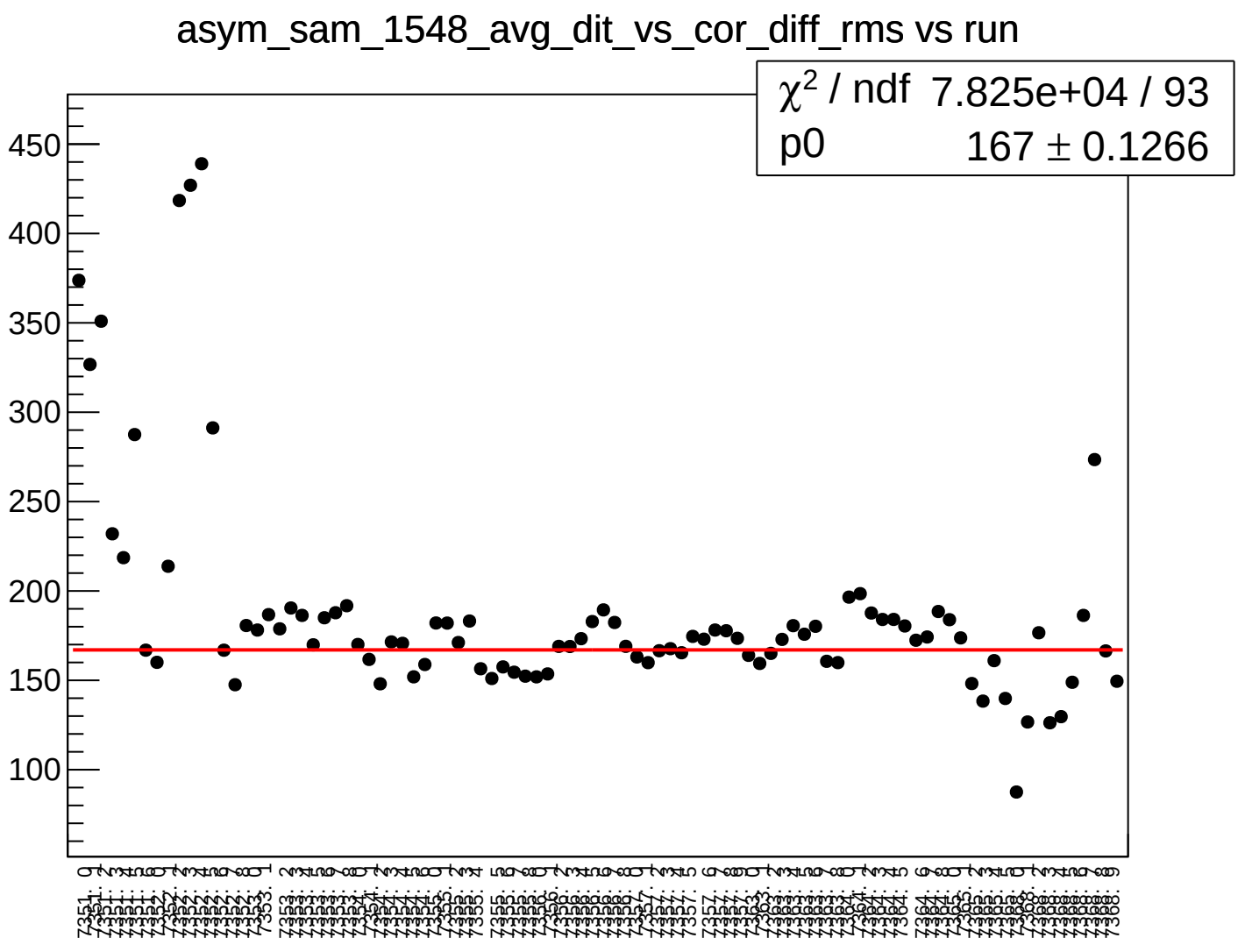

pull1D
Entries 94
Mean −0.004437
Std Dev 1.68
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

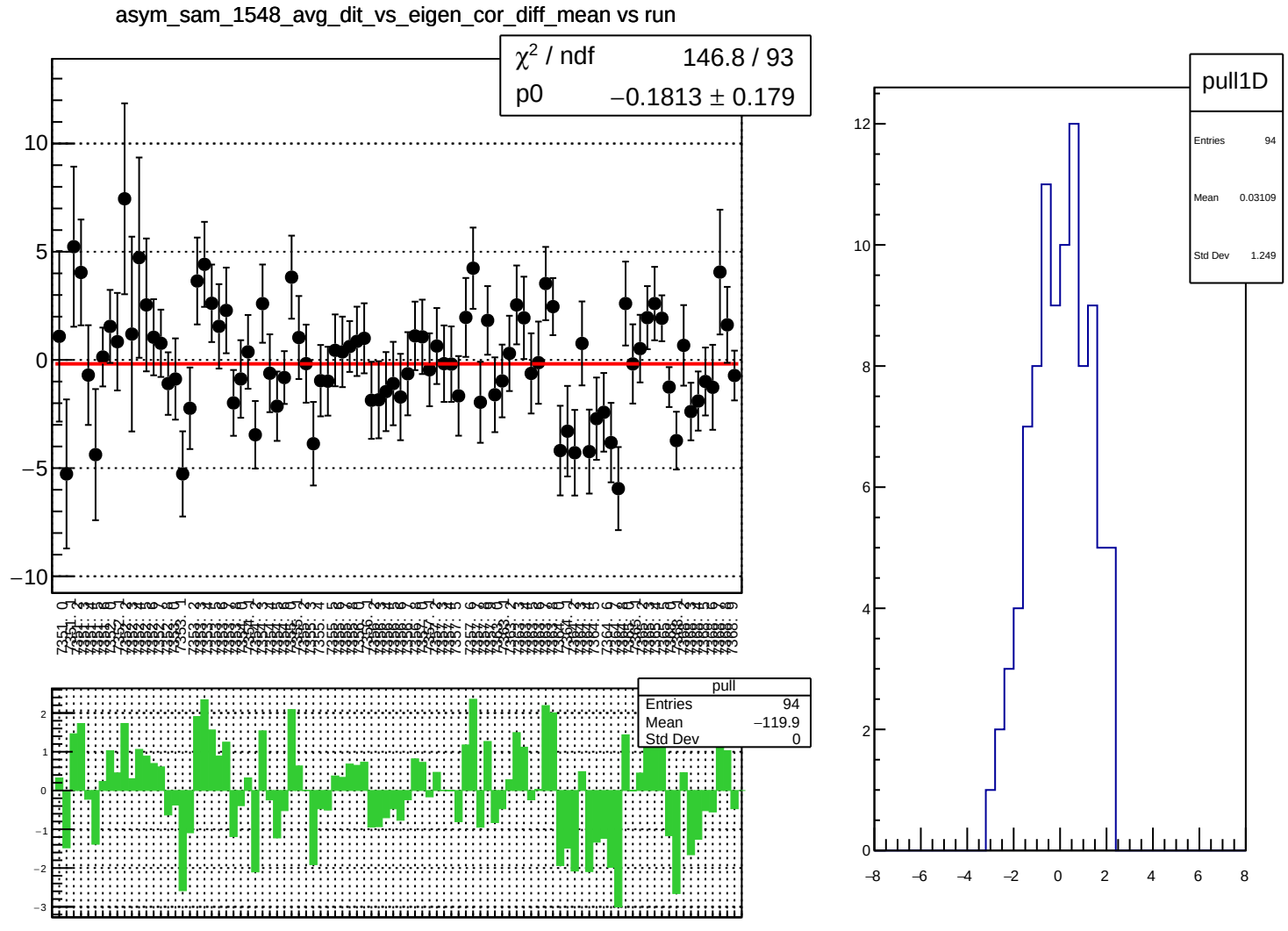

asym_sam_1548_avg_rms vs run
χ^2 / ndf 8488 / 93
p0 770.4 ± 0.5726
900
850
800
750
700
650

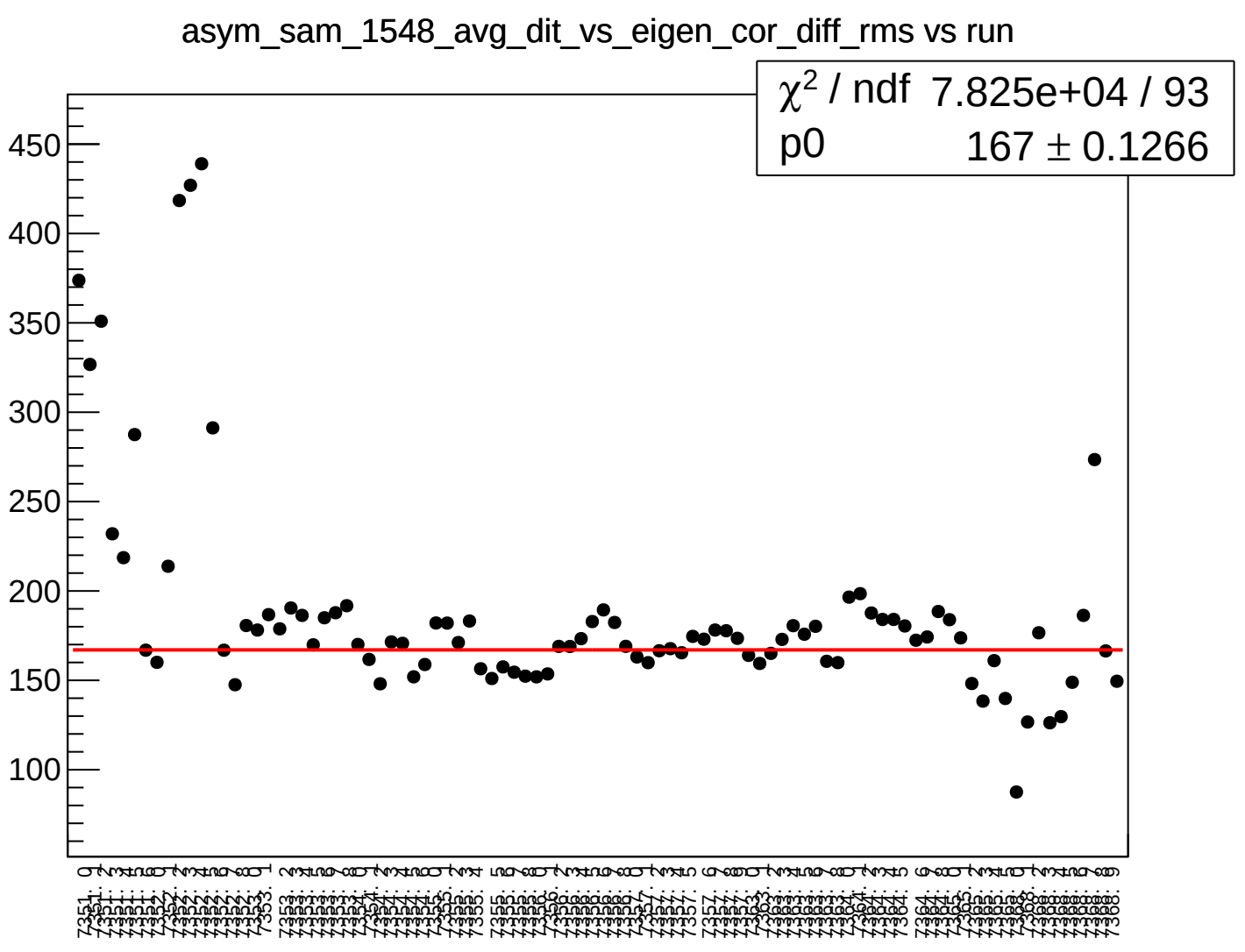

asym_sam_1548_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 137.7 / 93
p0 −6.72e−14 ± 3.003e−14
0.002
0.001
0
−0.001
−0.002
−0.003
−0.004
pull
Entries 94
Mean 101.6
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.08796
Std Dev 1.207
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

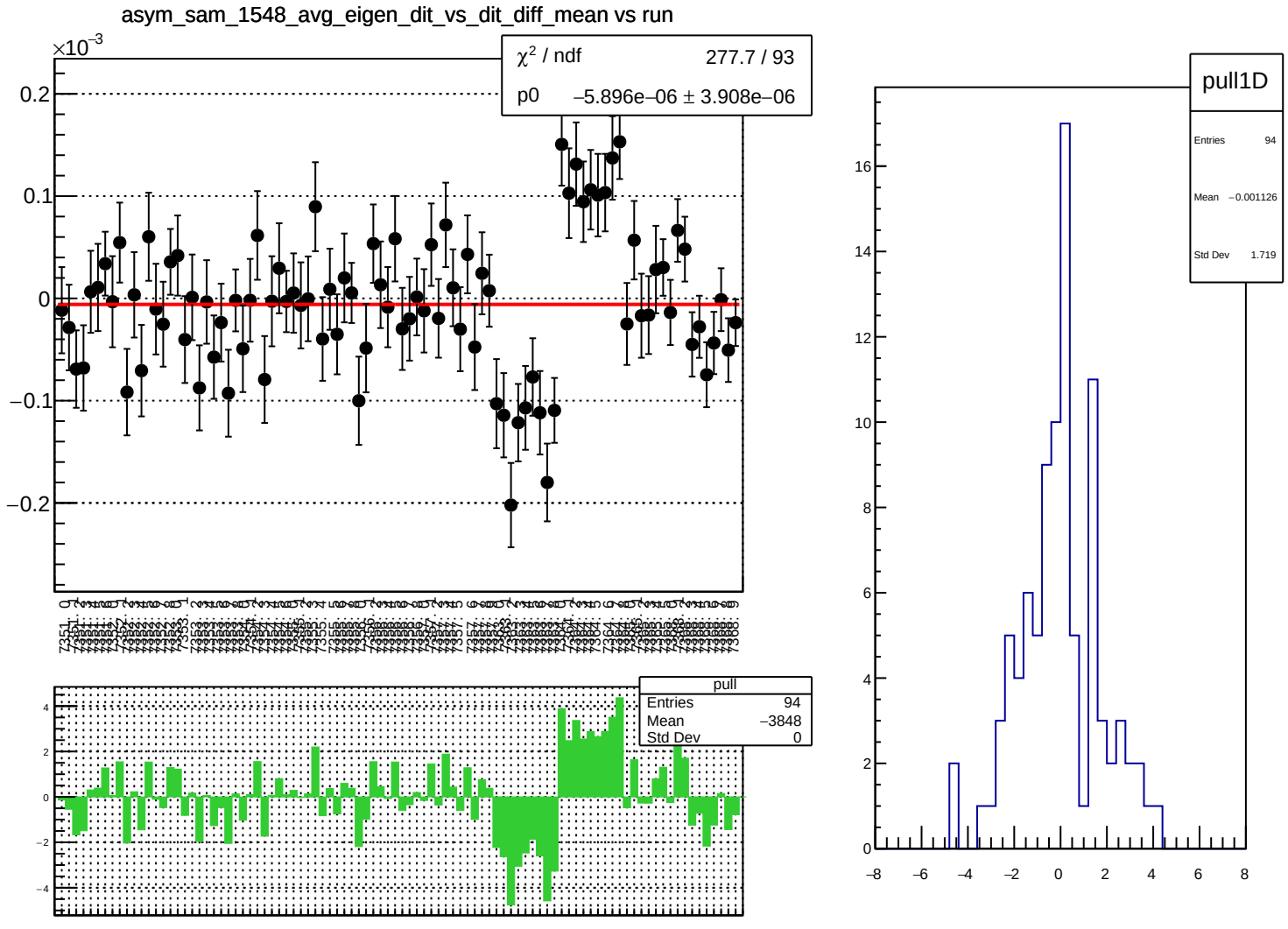

asym_sam_1548_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.351e+06 / 93
p0 1.452e−11 ± 2.123e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

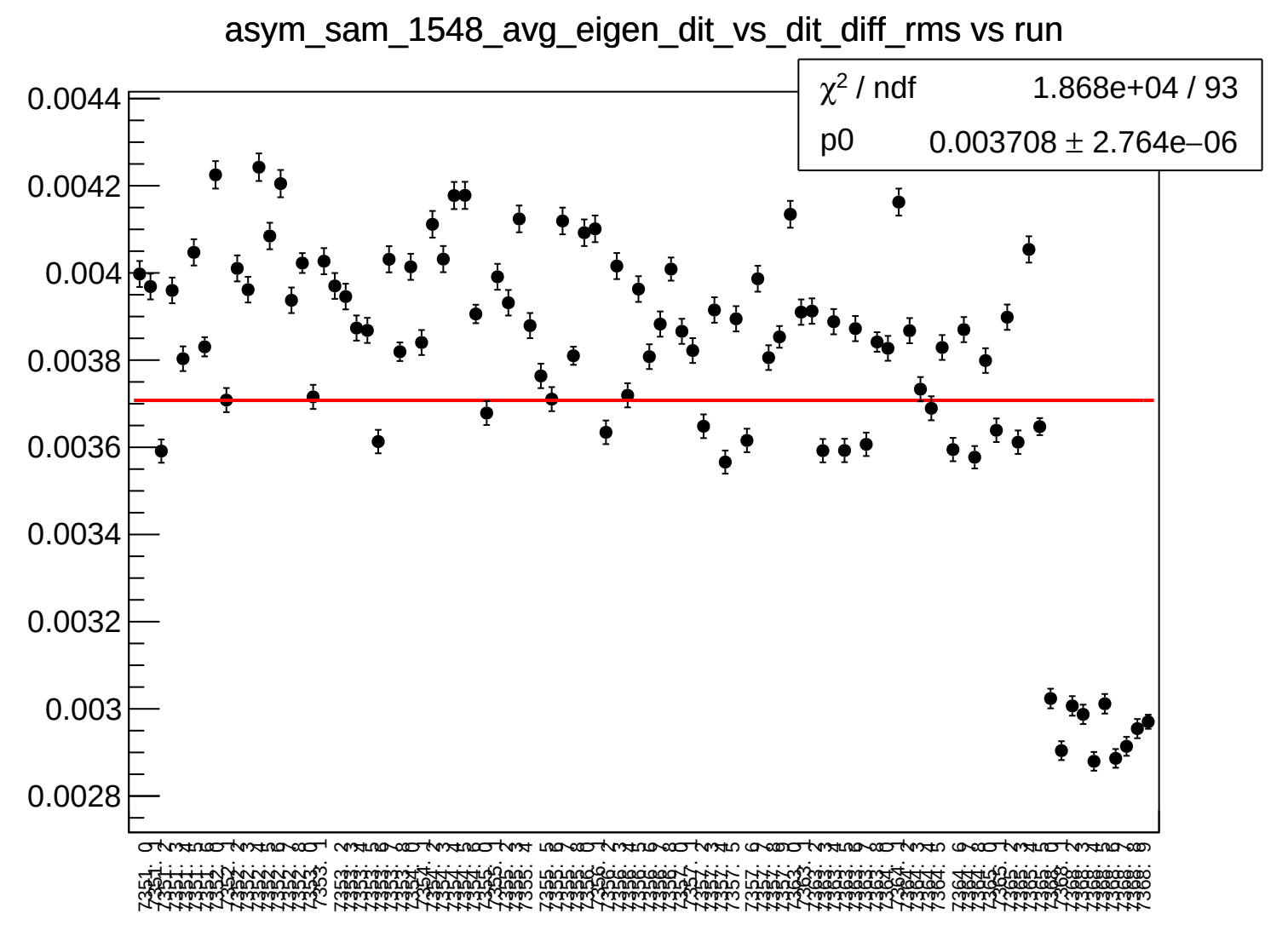

asym_sam_1548_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 146.8 / 93
p0 −0.1813 ± 0.179
pull
Entries 94
Mean −119.9
Std Dev 0
pull1D
Entries 94
Mean 0.03109
Std Dev 1.249

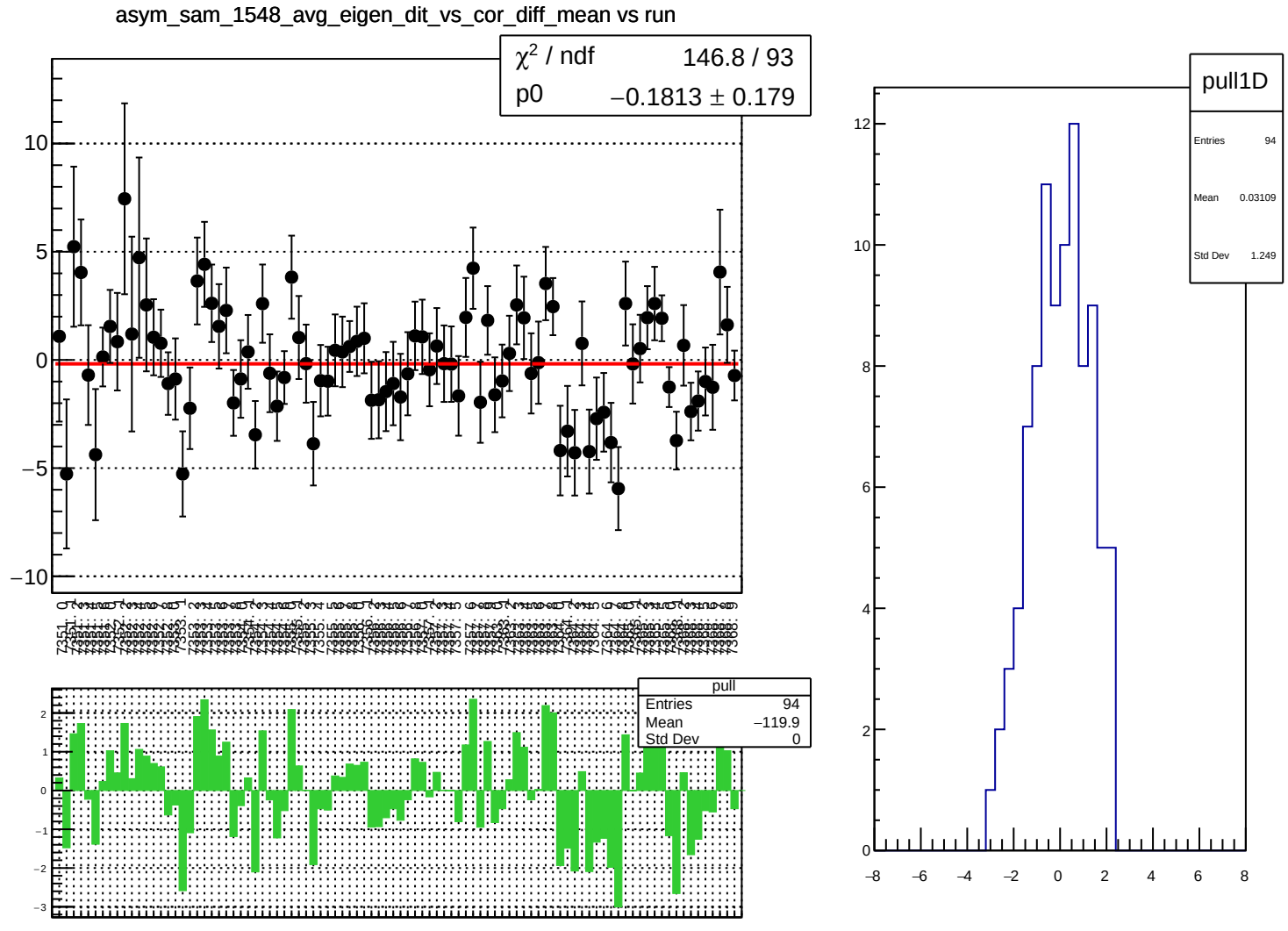

asym_sam_1548_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 7.825e+04 / 93
p0 167 ± 0.1266
450
400
350
300
250
200
150
100

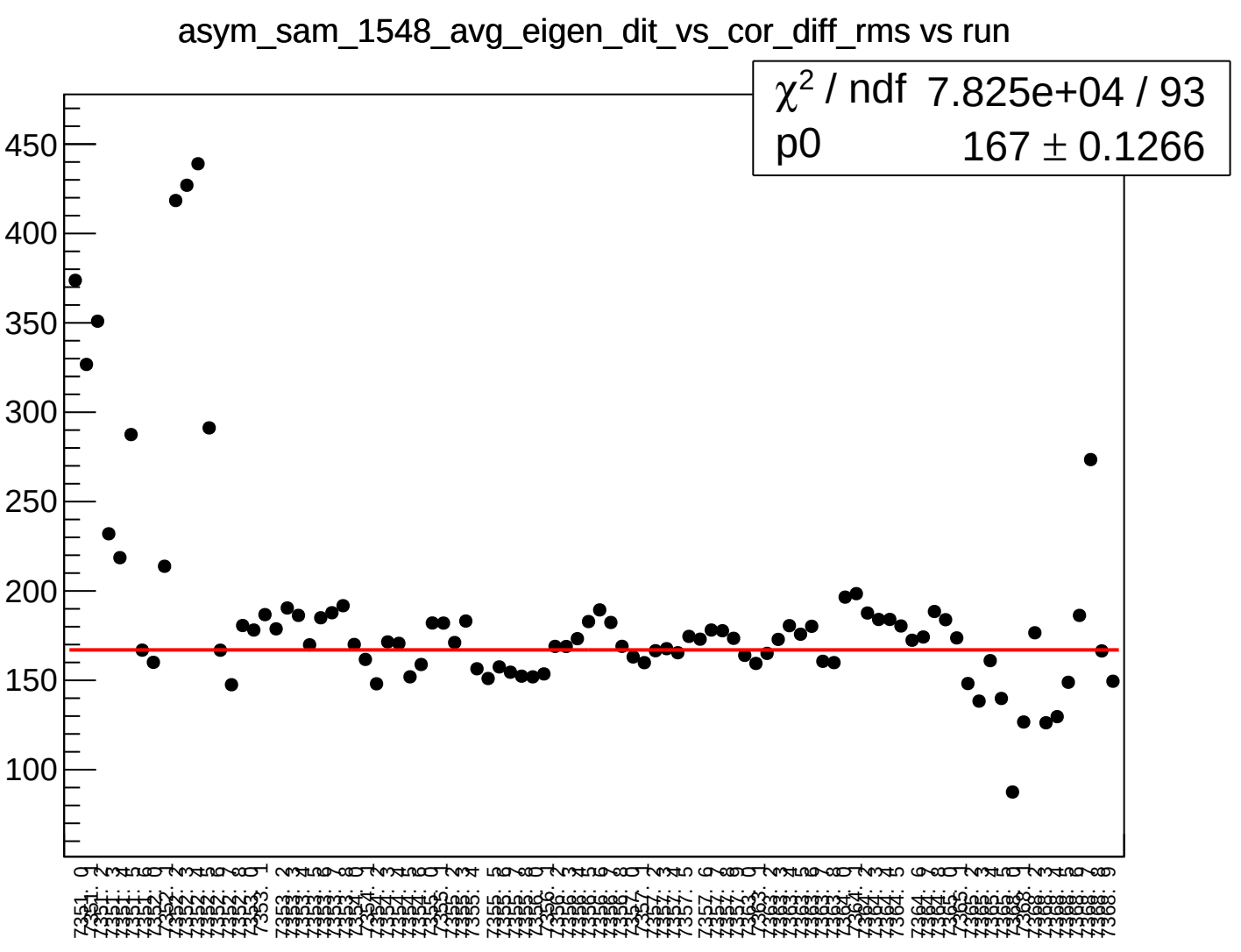

asym_sam_1548_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 146.8 / 93
p0 −0.1813 ± 0.179
pull
Entries 94
Mean −119.9
Std Dev 0
pull1D
Entries 94
Mean 0.03109
Std Dev 1.249

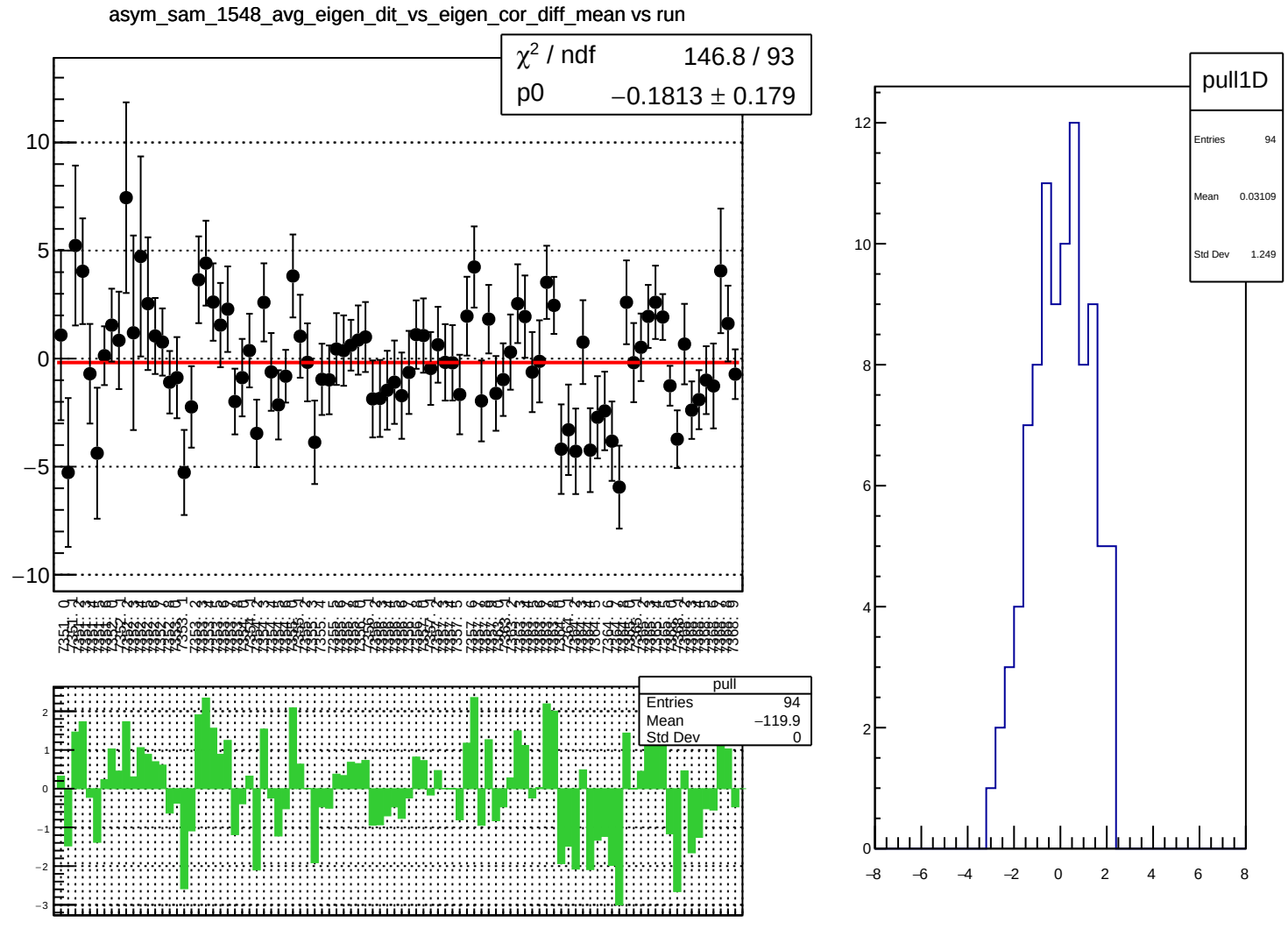

asym_sam_1548_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 7.825e+04 / 93
p0 167 ± 0.1266
450
400
350
300
250
200
150
100

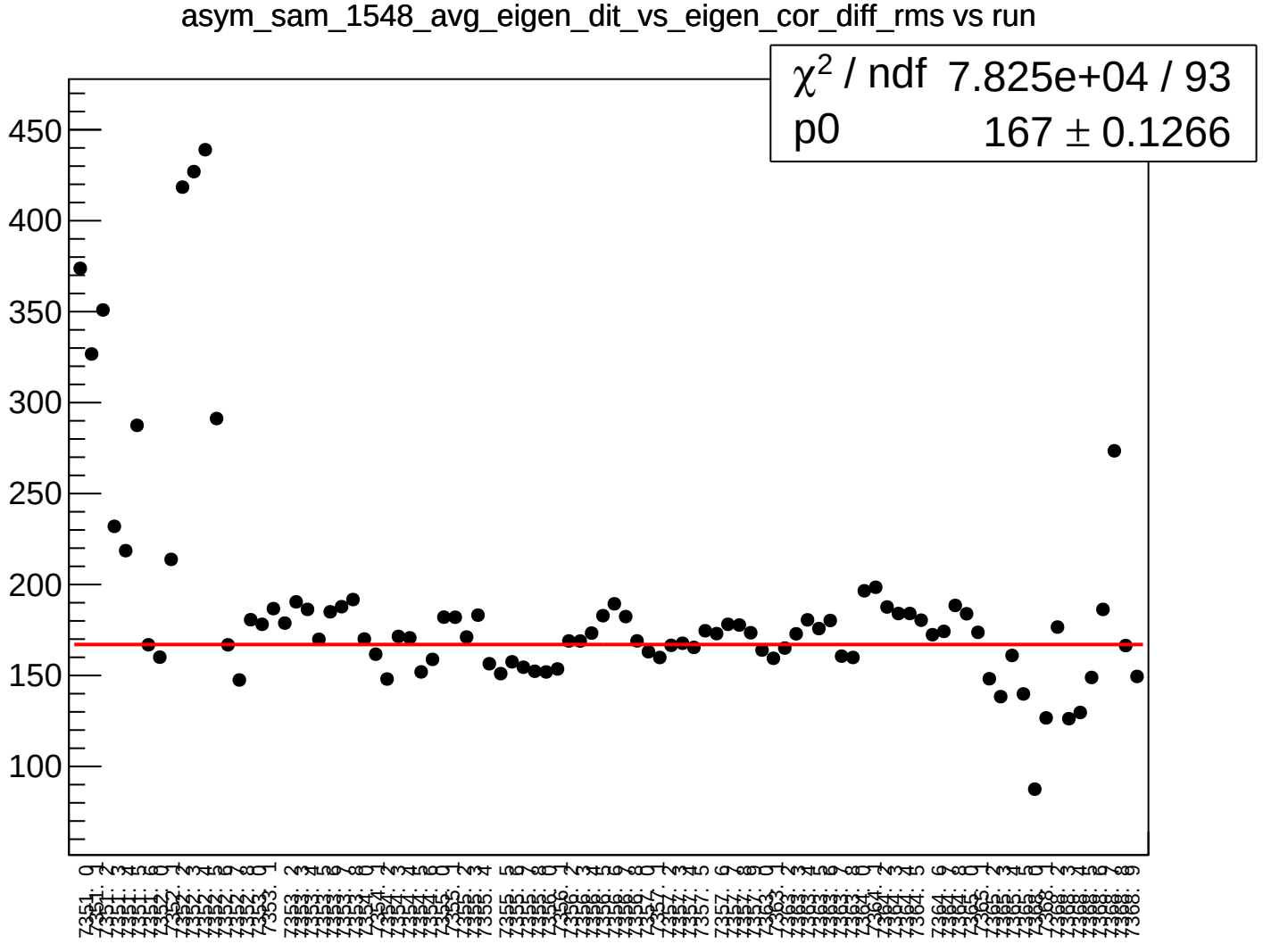

asym_sam_1548_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 277.7 / 93
p0 −5.896e−06 ± 3.908e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 94
Mean −3848
Std Dev 0
4
2
0
−2
−4
pull1D
Entries 94
Mean −0.001126
Std Dev 1.719
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

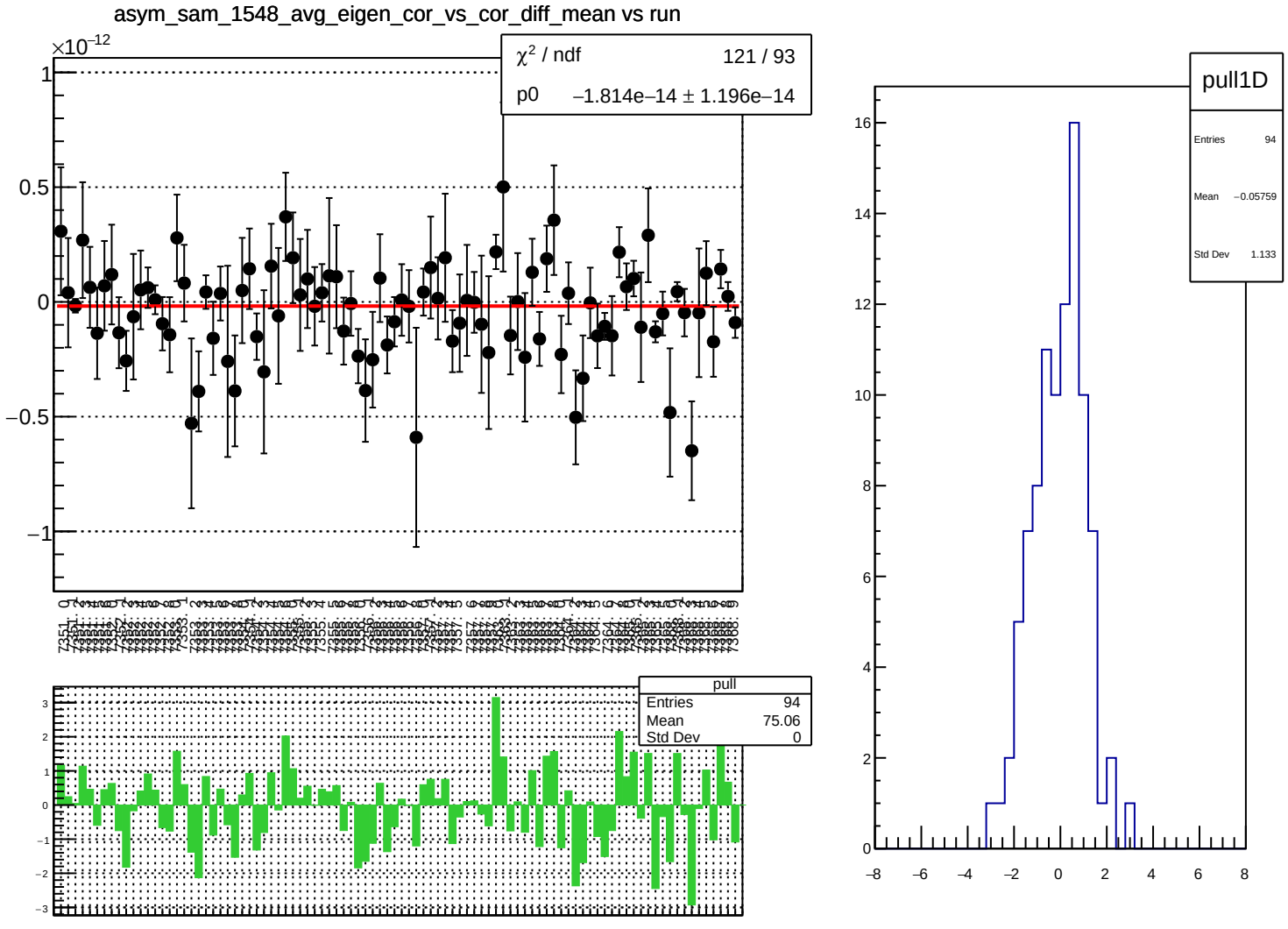

asym_sam_1548_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.868e+04 / 93
p0 0.003708 ± 2.764e−06
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028

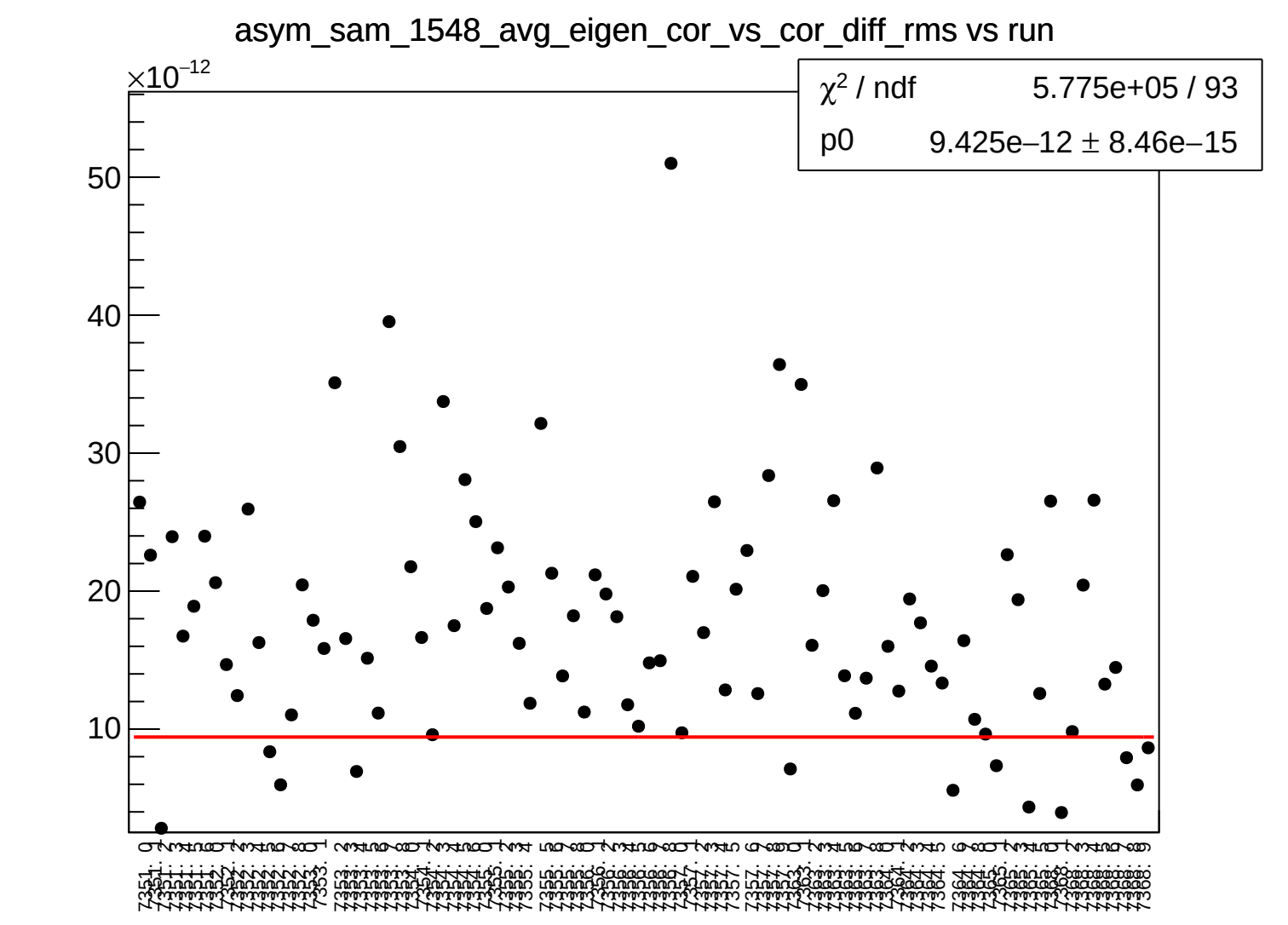

asym_sam_1548_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 146.8 / 93
p0 −0.1813 ± 0.179
pull
Entries 94
Mean −119.9
Std Dev 0
pull1D
Entries 94
Mean 0.03109
Std Dev 1.249

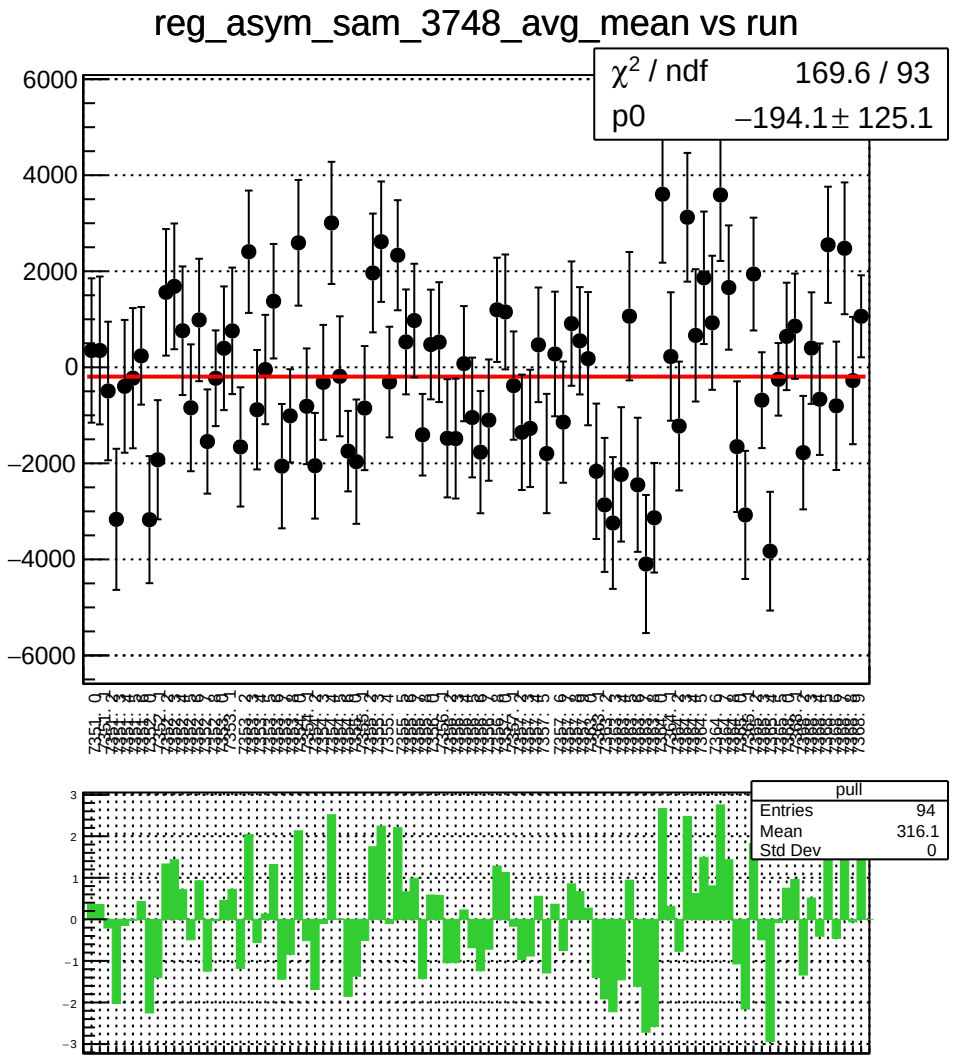

asym_sam_1548_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 7.825e+04 / 93
p0 167 ± 0.1266
450
400
350
300
250
200
150
100

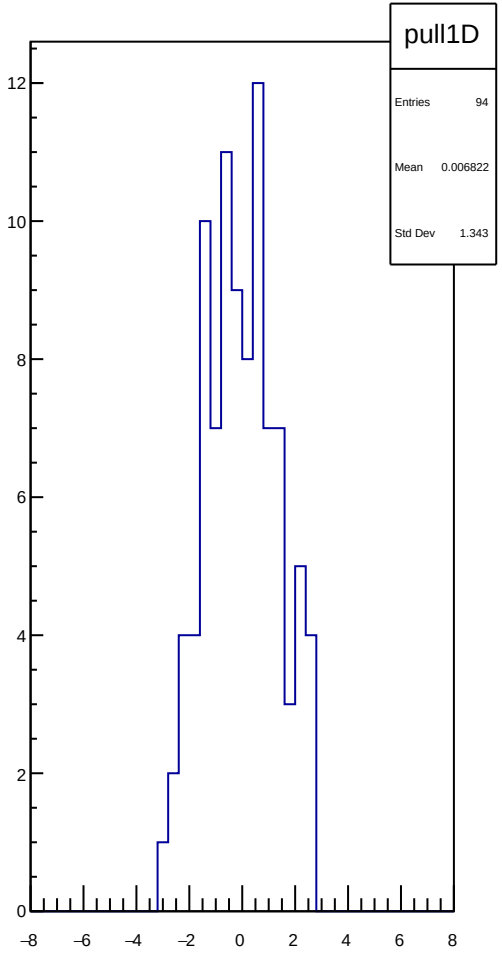

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 146.8 / 93
p0 −0.1813 ± 0.179
pull
Entries 94
Mean −119.9
Std Dev 0
pull1D
Entries 94
Mean 0.03109
Std Dev 1.249

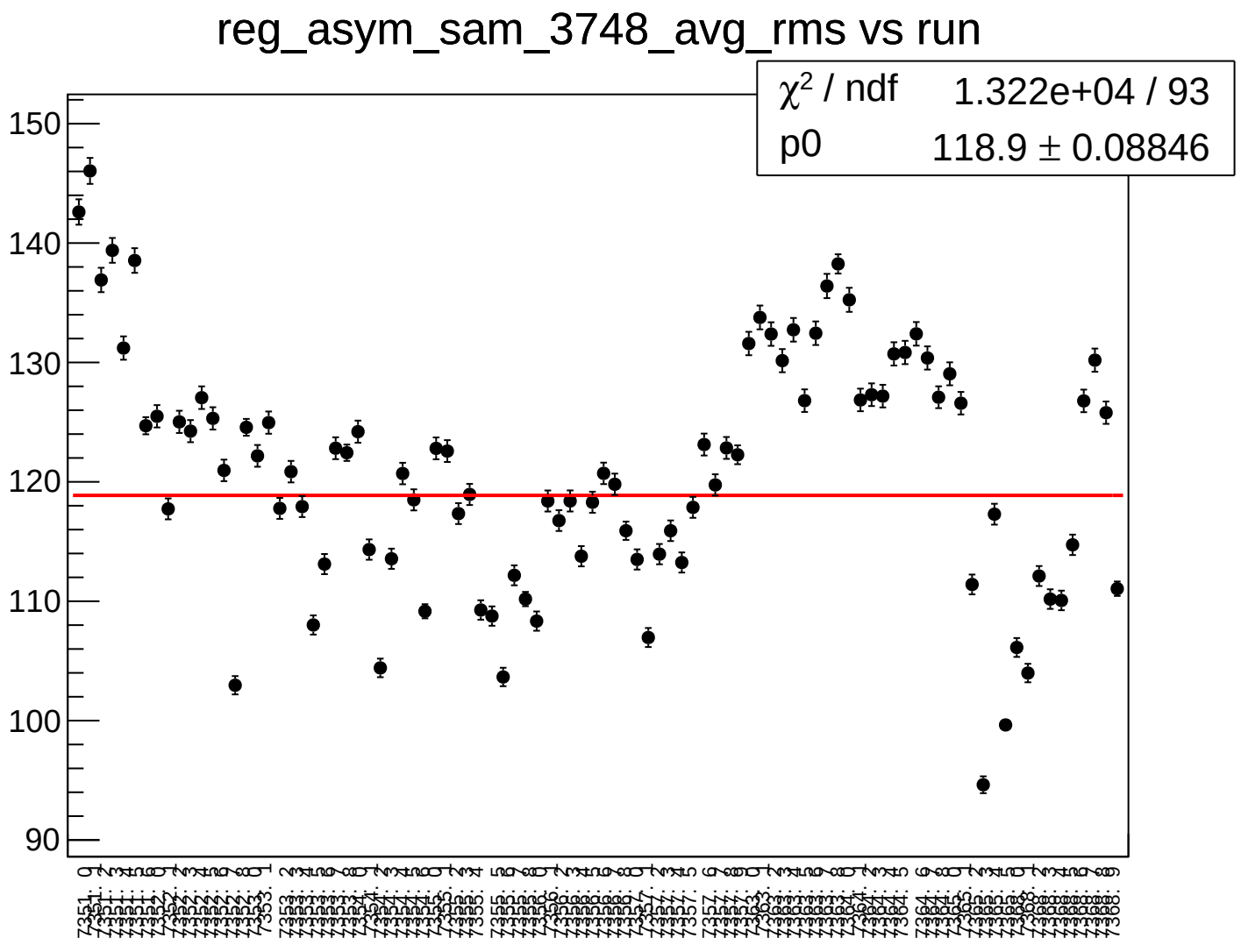

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.825e+04 / 93
p0 167 ± 0.1266
450
400
350
300
250
200
150
100

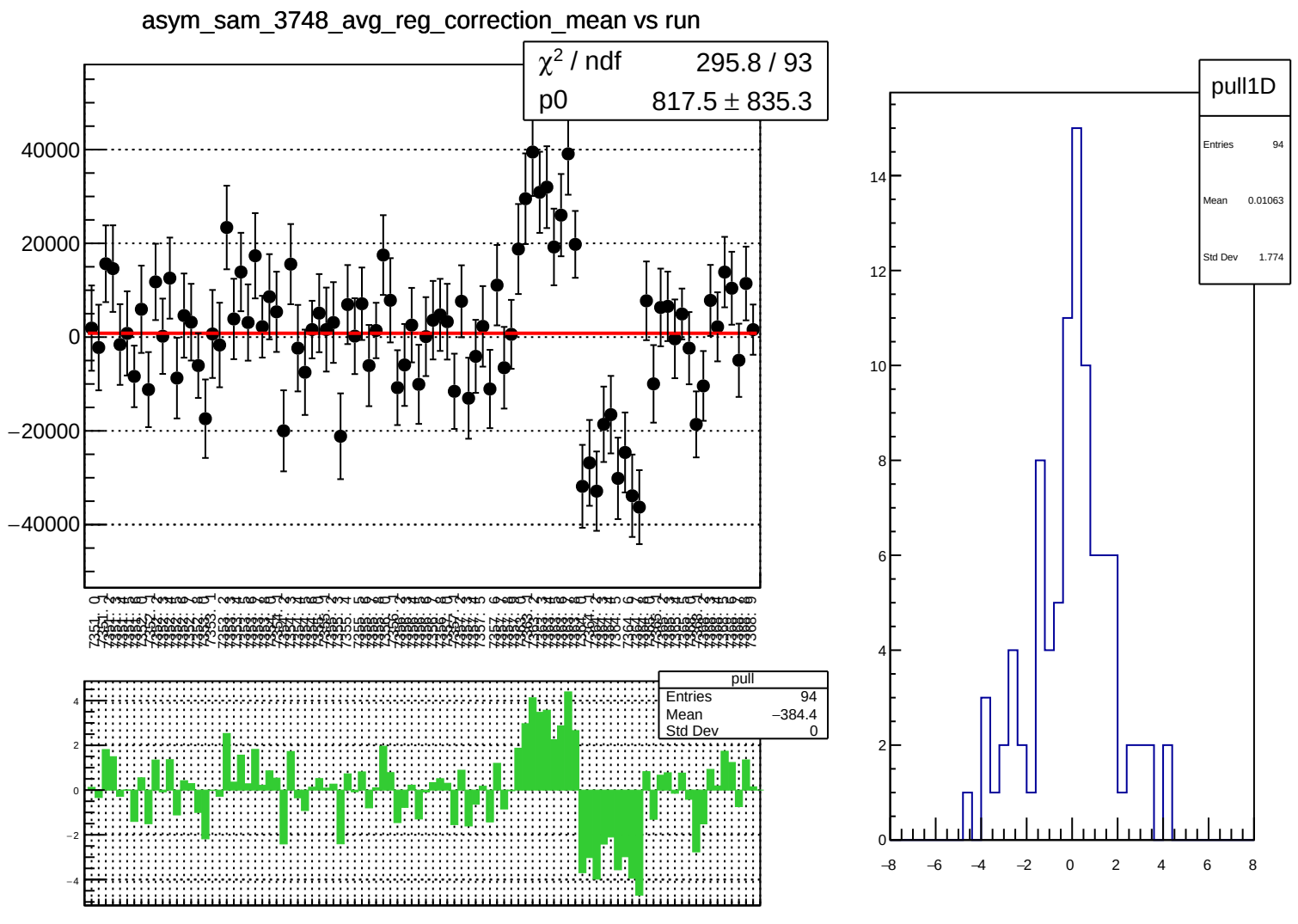

asym_sam_1548_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 121 / 93
p0 −1.814e−14 ± 1.196e−14
pull
Entries 94
Mean 75.06
Std Dev 0
pull1D
Entries 94
Mean −0.05759
Std Dev 1.133

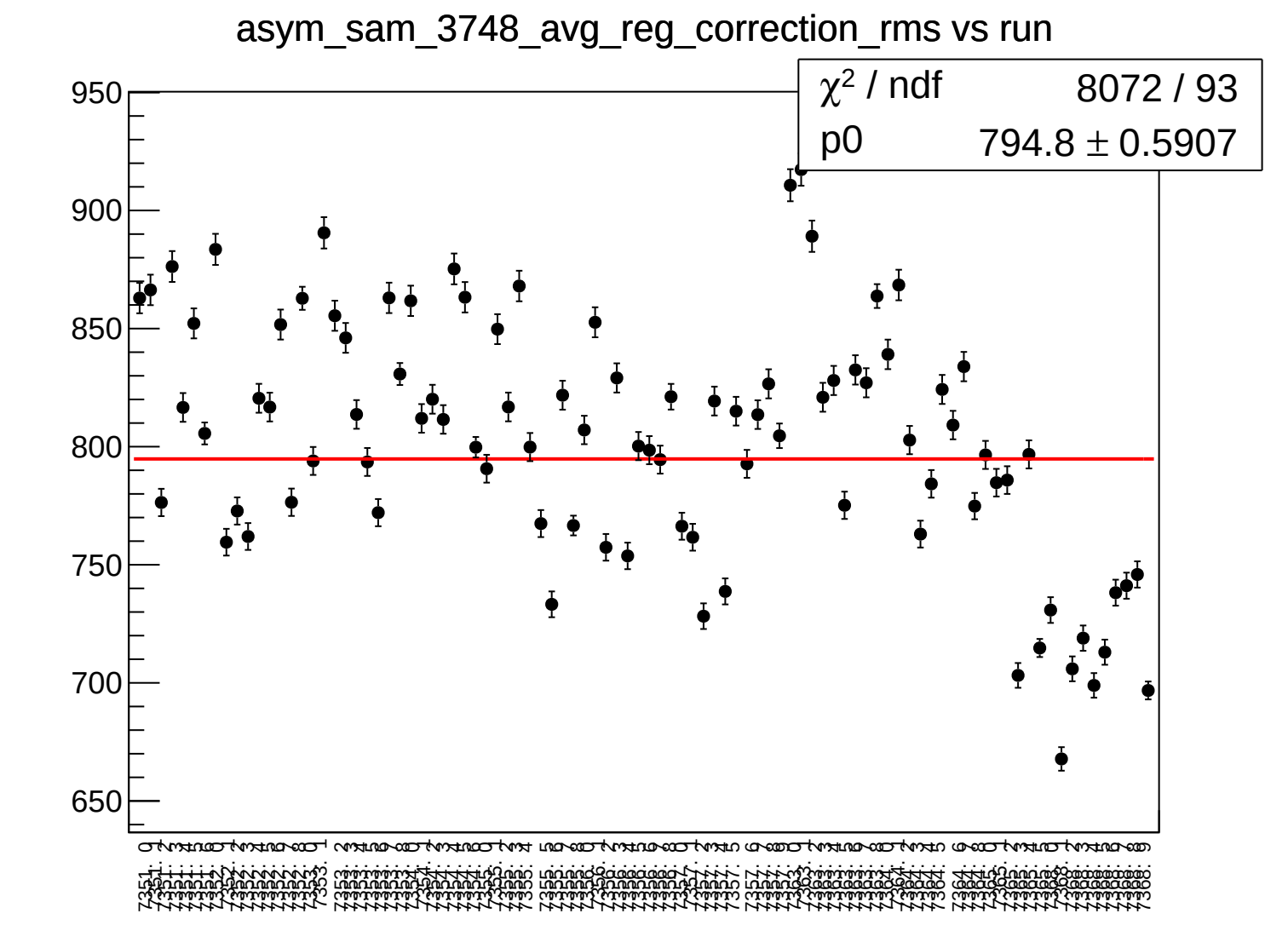

asym_sam_1548_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.775e+05 / 93
p0 9.425e−12 ± 8.46e−15
50
40
30
20
10

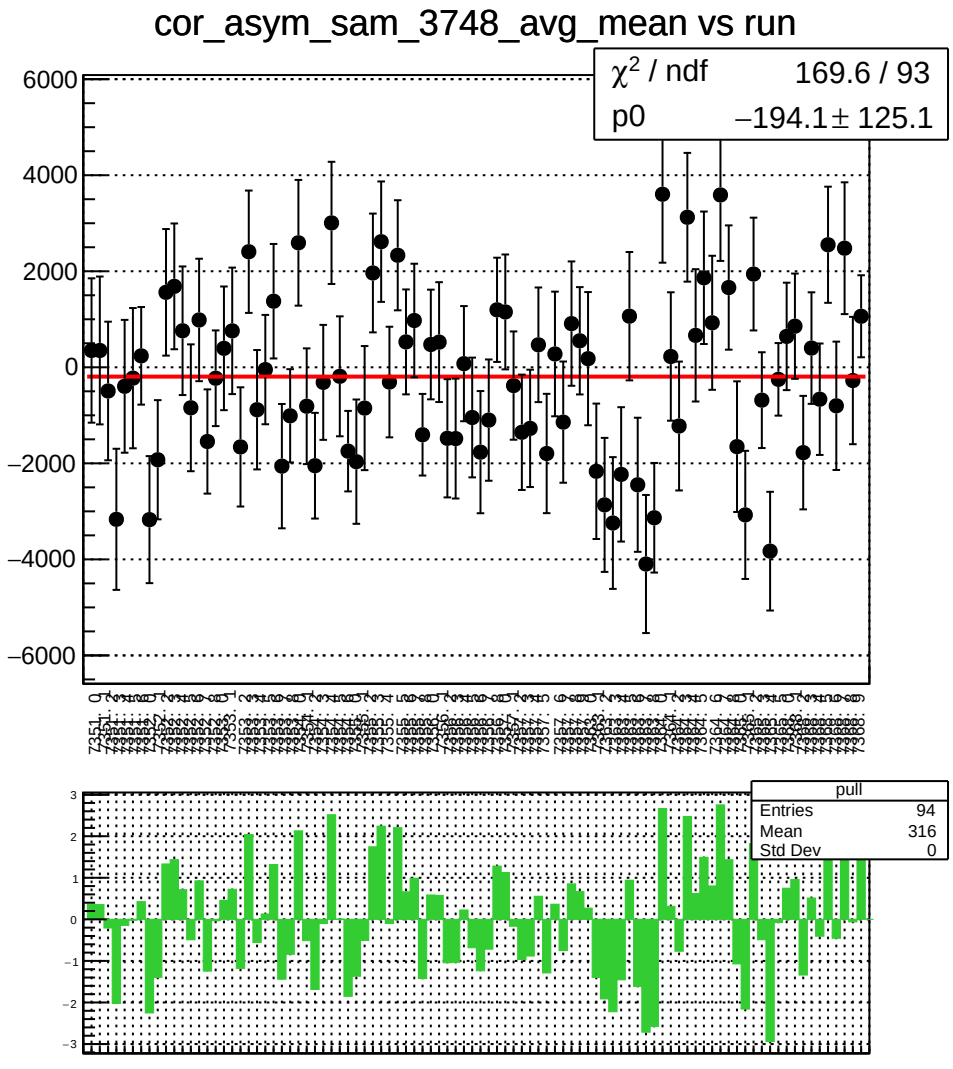

reg_asym_sam_3748_avg_mean vs run
χ² / ndf 169.6 / 93
p0 −194.1 ± 125.1
pull
Entries 94
Mean 316.1
Std Dev 0

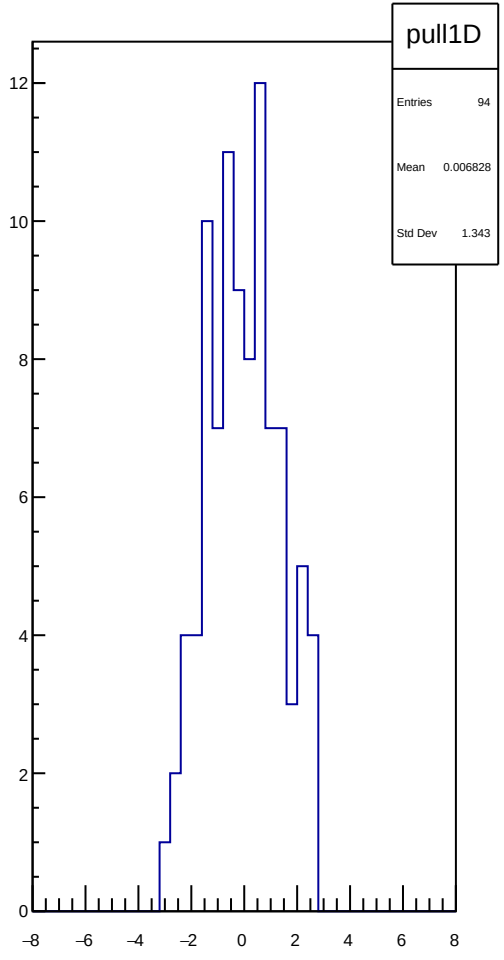

pull1D
Entries 94
Mean 0.006822
Std Dev 1.343

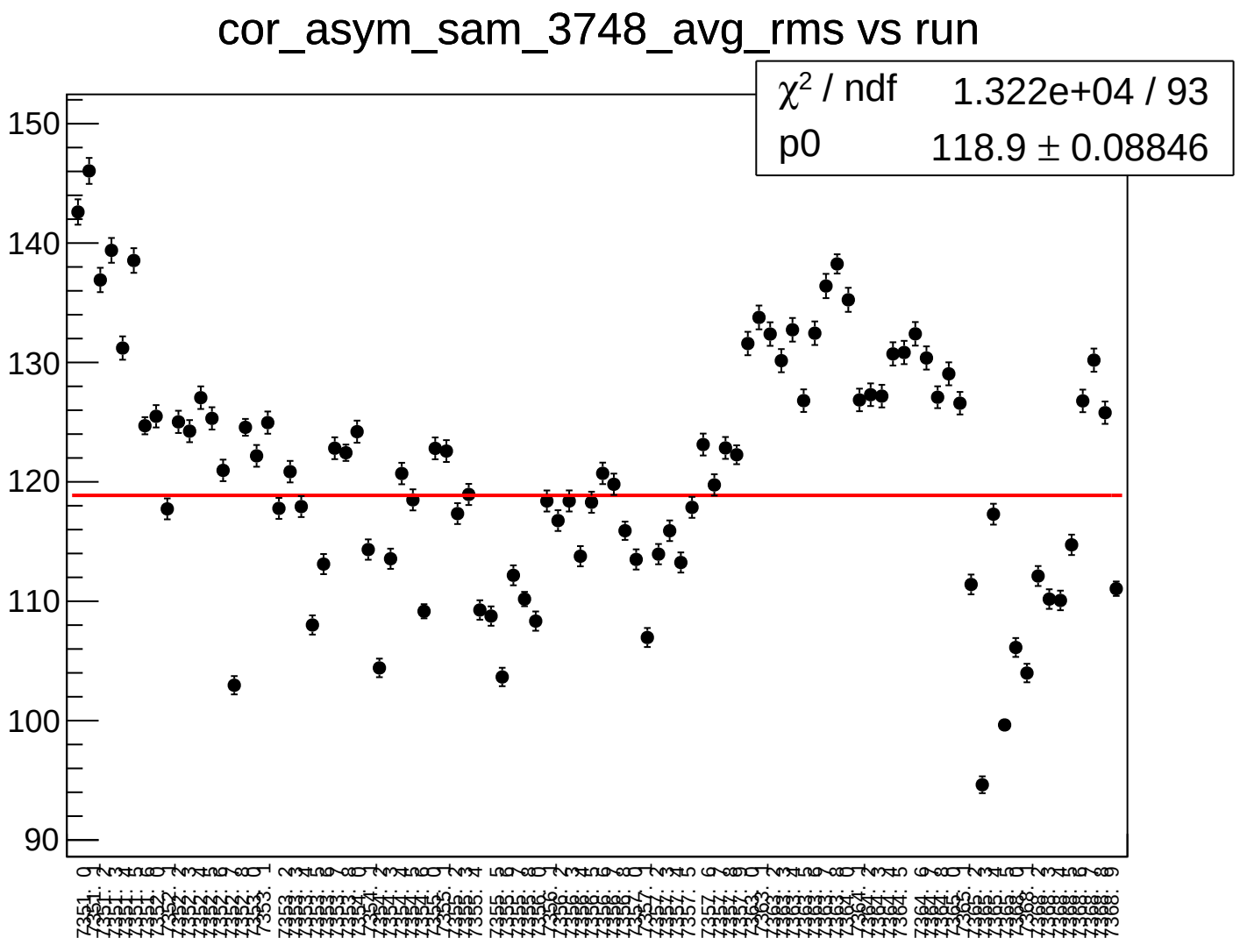

reg_asym_sam_3748_avg_rms vs run
χ^2 / ndf 1.322e+04 / 93
p0 118.9 ± 0.08846
150
140
130
120
110
100
90

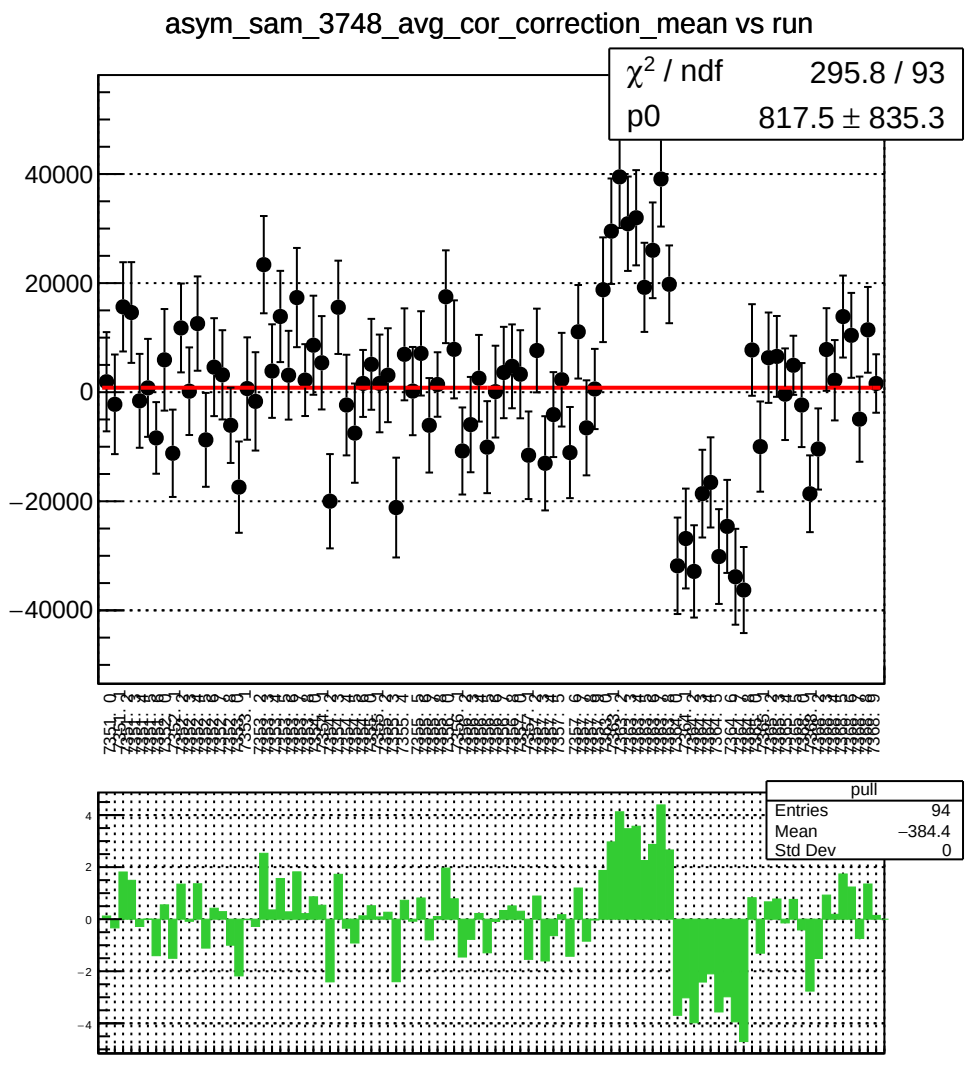

asym_sam_3748_avg_reg_correction_mean vs run
χ² / ndf 295.8 / 93
p0 817.5 ± 835.3
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −384.4
Std Dev 0
4
2
0
−2
−4
pull1D
Entries 94
Mean 0.01063
Std Dev 1.774
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

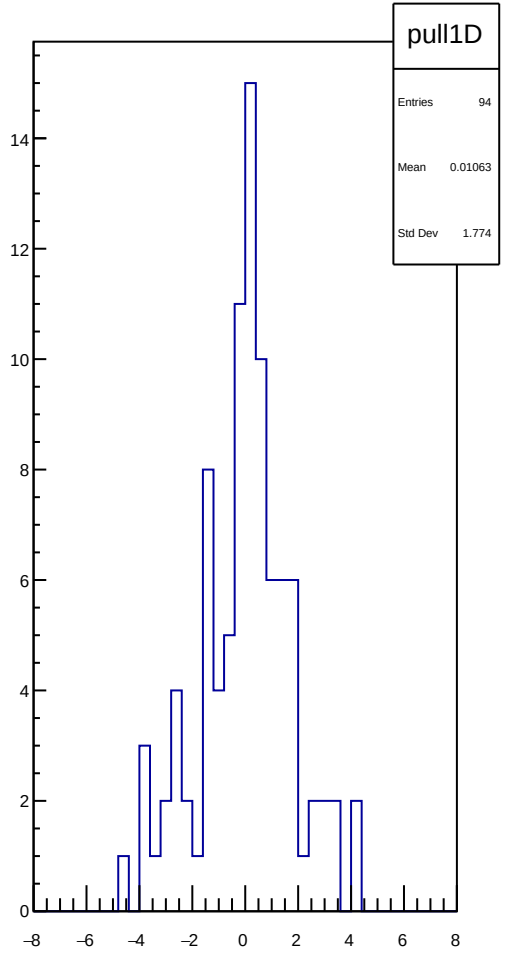

asym_sam_3748_avg_reg_correction_rms vs run
χ² / ndf 8072 / 93
p0 794.8 ± 0.5907
950
900
850
800
750
700
650

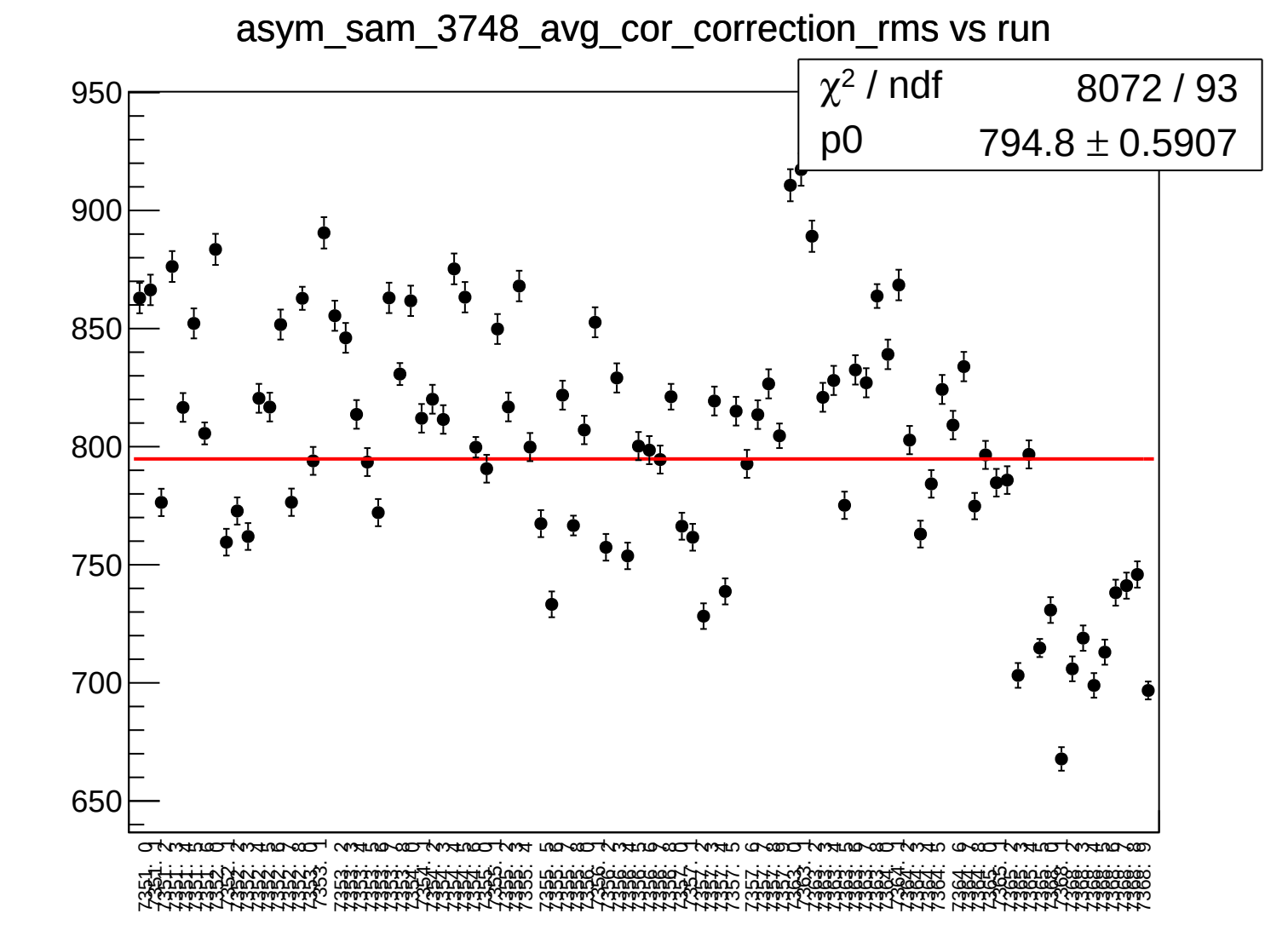

cor_asym_sam_3748_avg_mean vs run
χ² / ndf 169.6 / 93
p0 −194.1 ± 125.1
pull
Entries 94
Mean 316
Std Dev 0

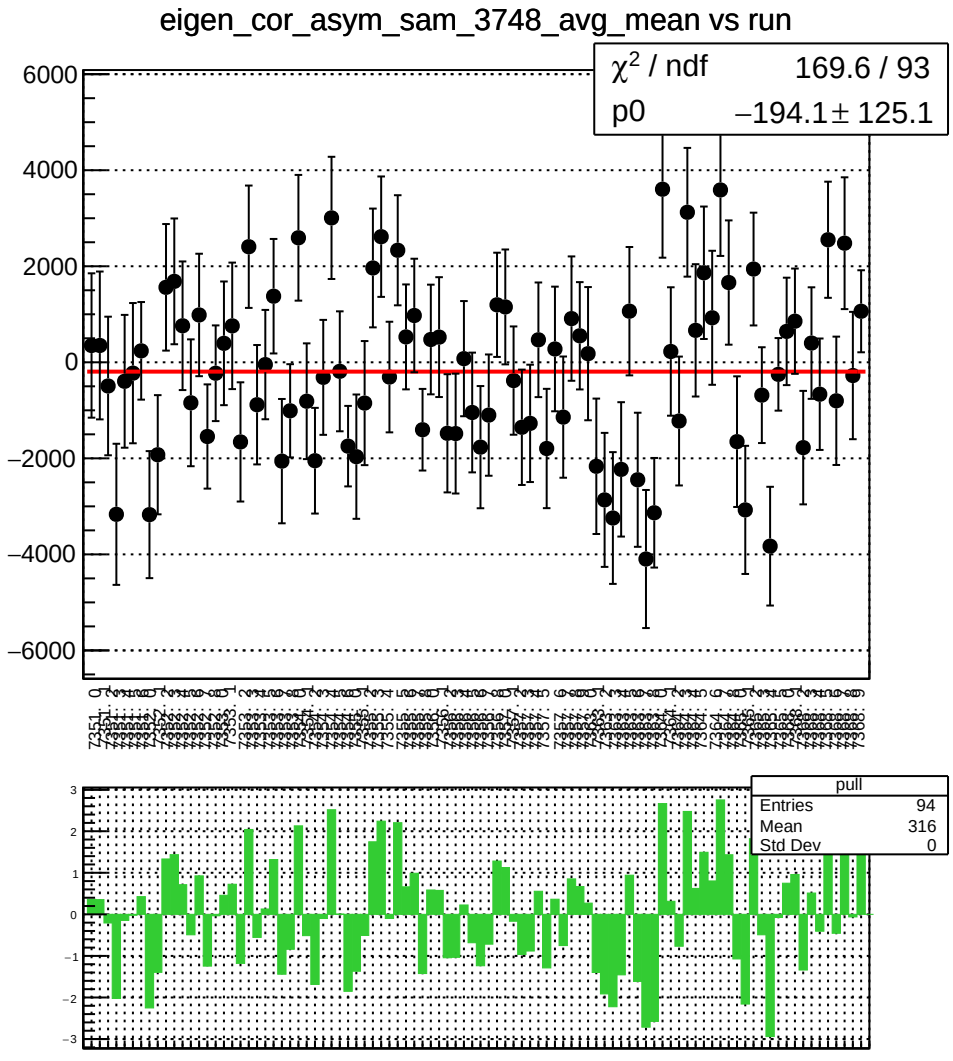

pull1D
Entries 94
Mean 0.006828
Std Dev 1.343

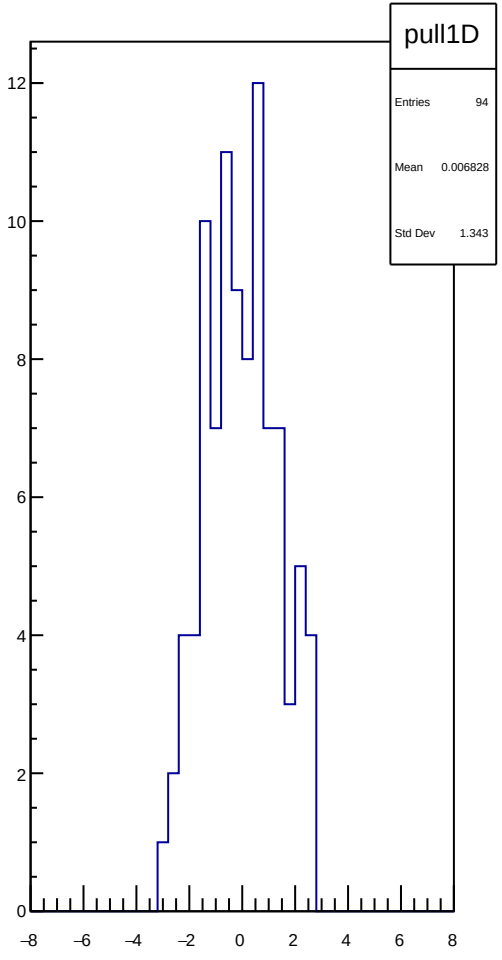

cor_asym_sam_3748_avg_rms vs run
χ² / ndf 1.322e+04 / 93
p0 118.9 ± 0.08846
150
140
130
120
110
100
90

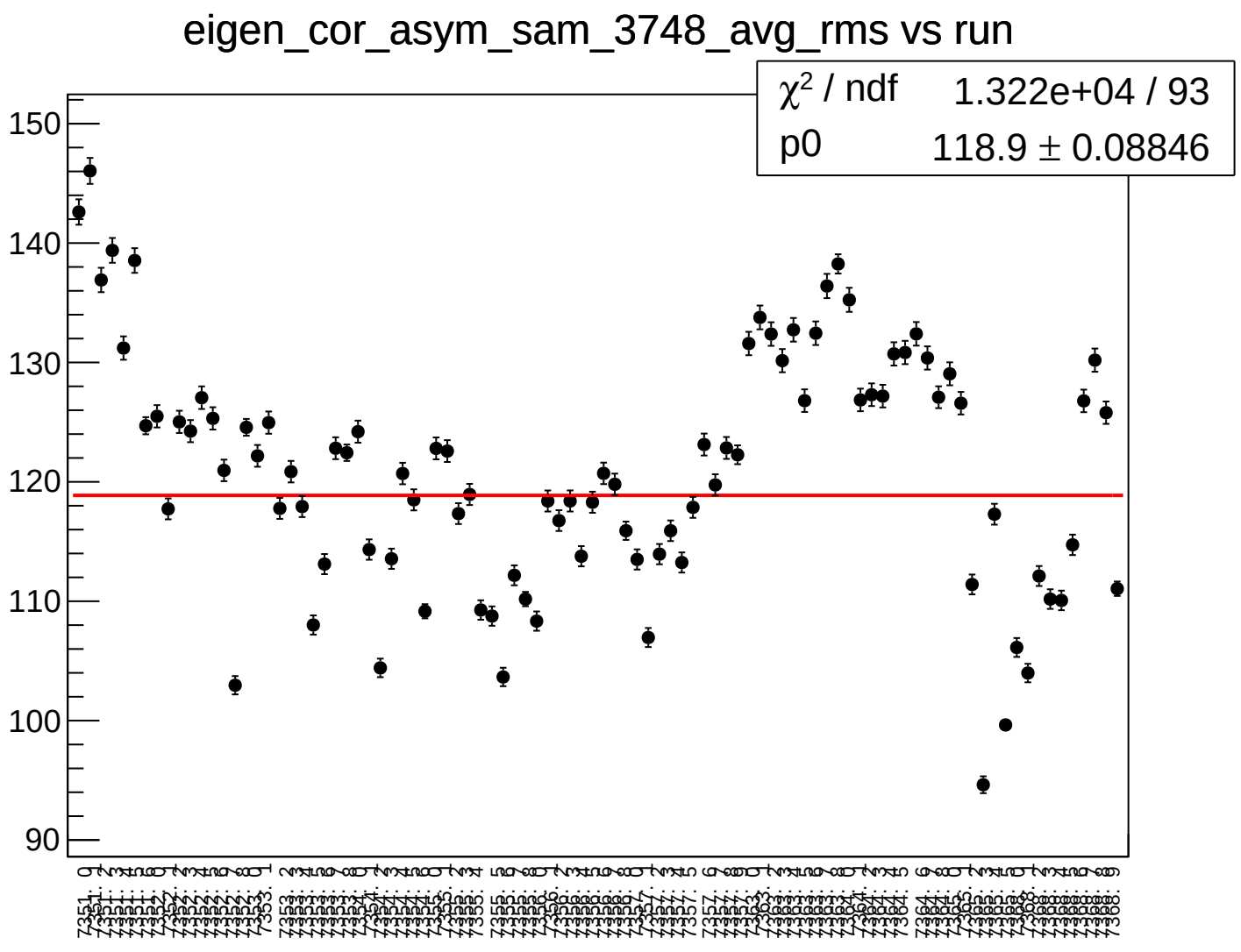

asym_sam_3748_avg_cor_correction_mean vs run
χ² / ndf 295.8 / 93
p0 817.5 ± 835.3
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −384.4
Std Dev 0
4
2
0
−2
−4

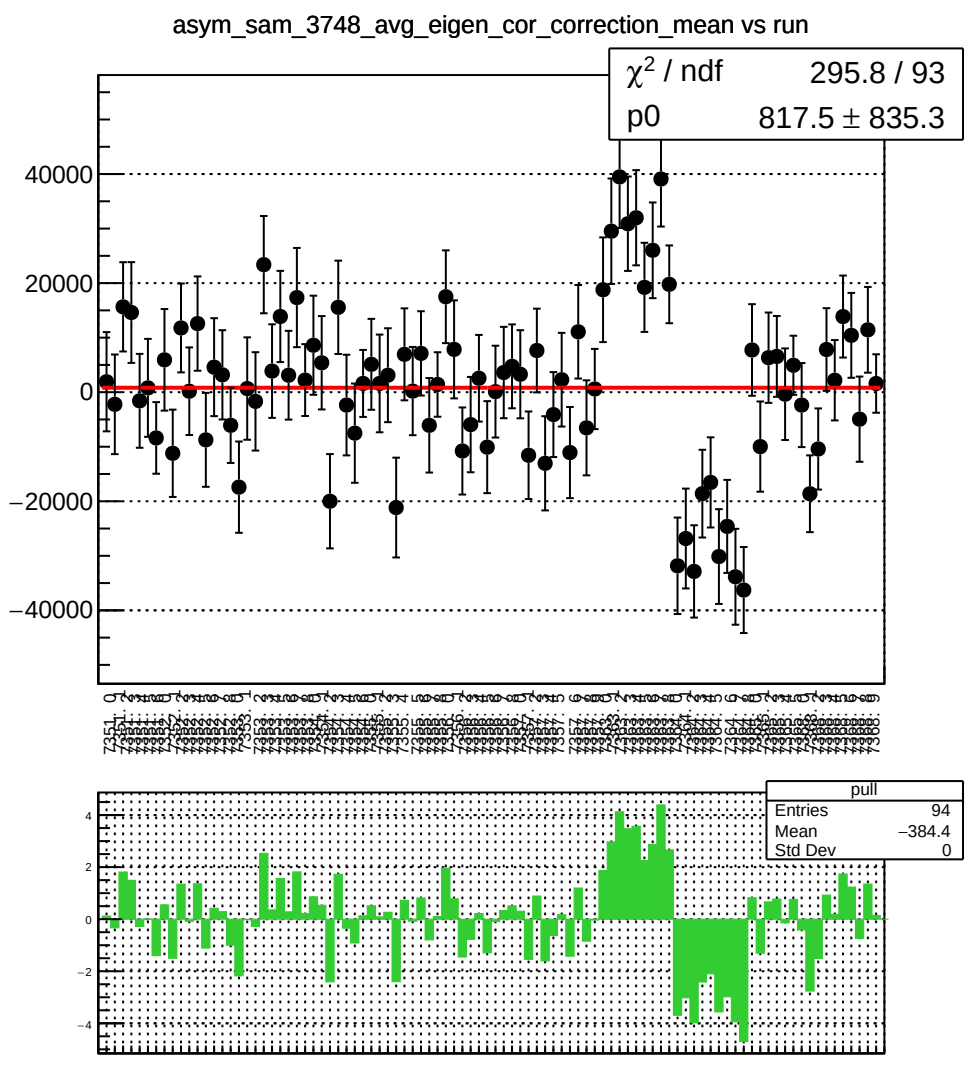

pull1D
Entries 94
Mean 0.01063
Std Dev 1.774
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

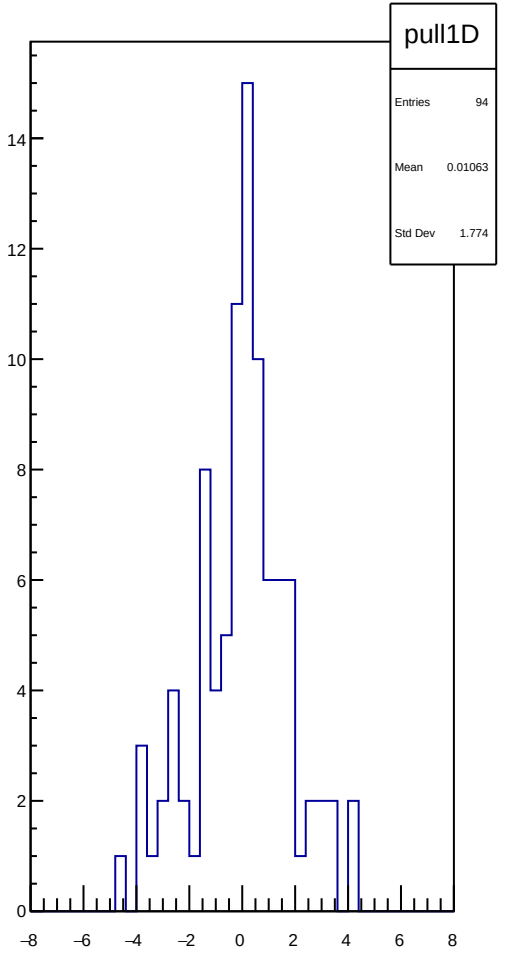

asym_sam_3748_avg_cor_correction_rms vs run
χ² / ndf 8072 / 93
p0 794.8 ± 0.5907
950
900
850
800
750
700
650

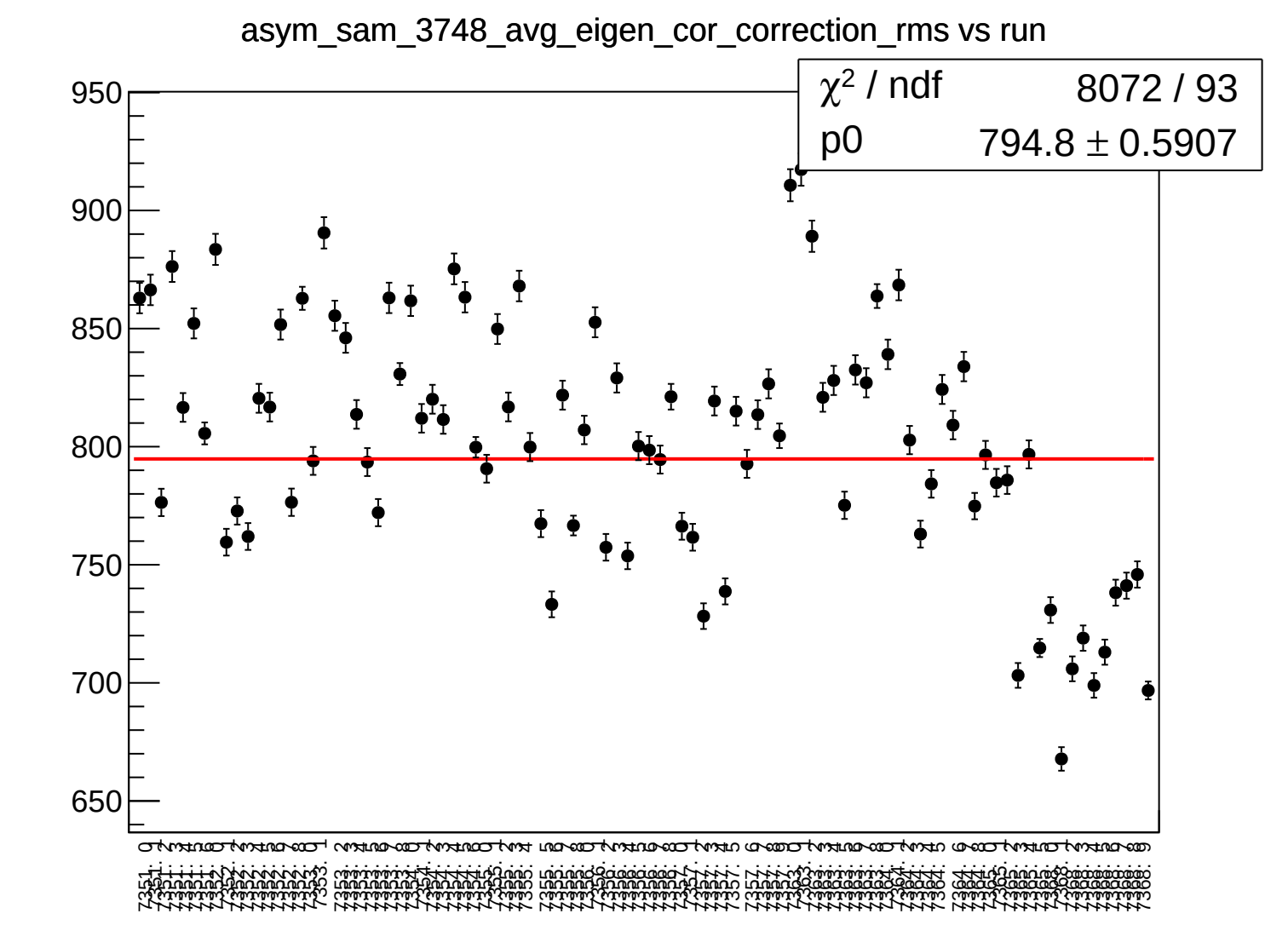

eigen_cor_asym_sam_3748_avg_mean vs run
χ² / ndf 169.6 / 93
p0 −194.1 ± 125.1
pull
Entries 94
Mean 316
Std Dev 0

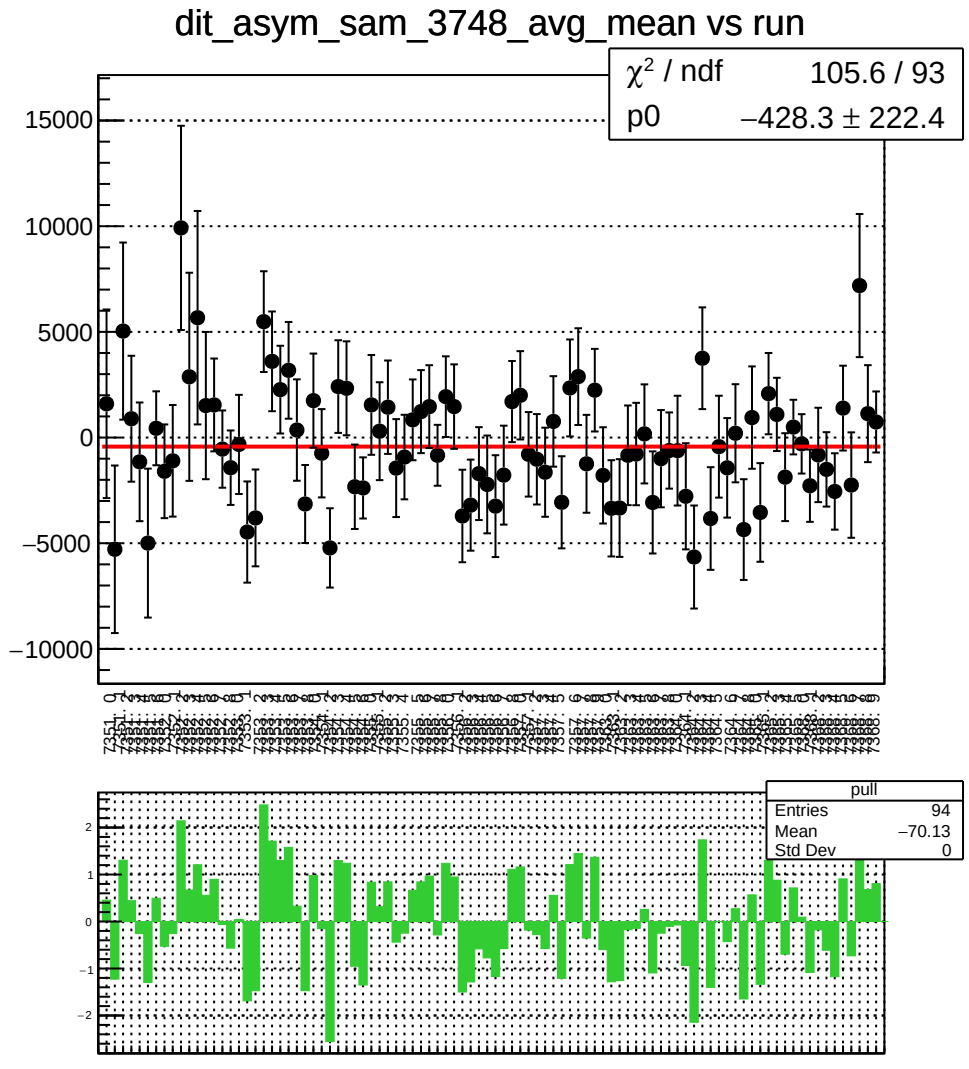

pull1D
Entries 94
Mean 0.006828
Std Dev 1.343

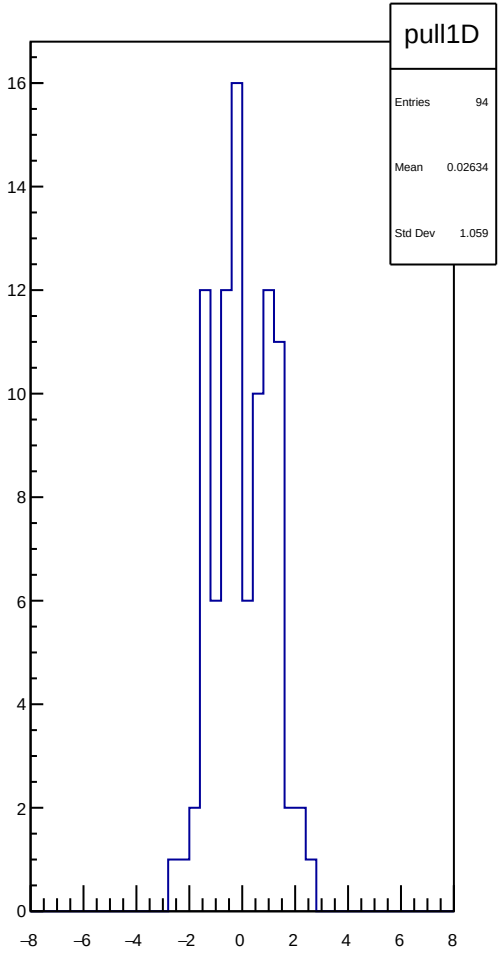

eigen_cor_asym_sam_3748_avg_rms vs run
χ² / ndf 1.322e+04 / 93
p0 118.9 ± 0.08846
150
140
130
120
110
100
90

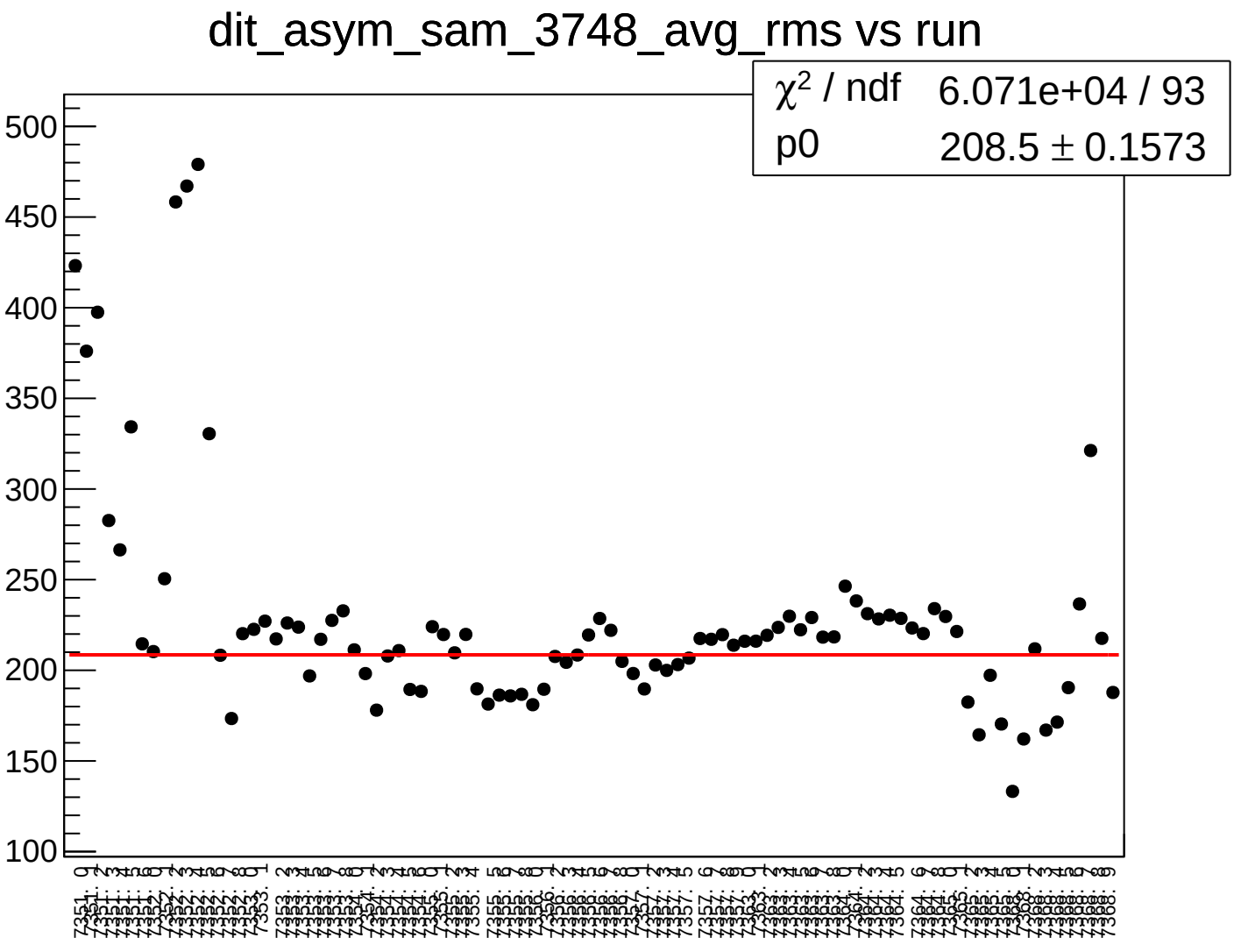

asym_sam_3748_avg_eigen_cor_correction_mean vs run
χ² / ndf 295.8 / 93
p0 817.5 ± 835.3
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −384.4
Std Dev 0
4
2
0
−2
−4

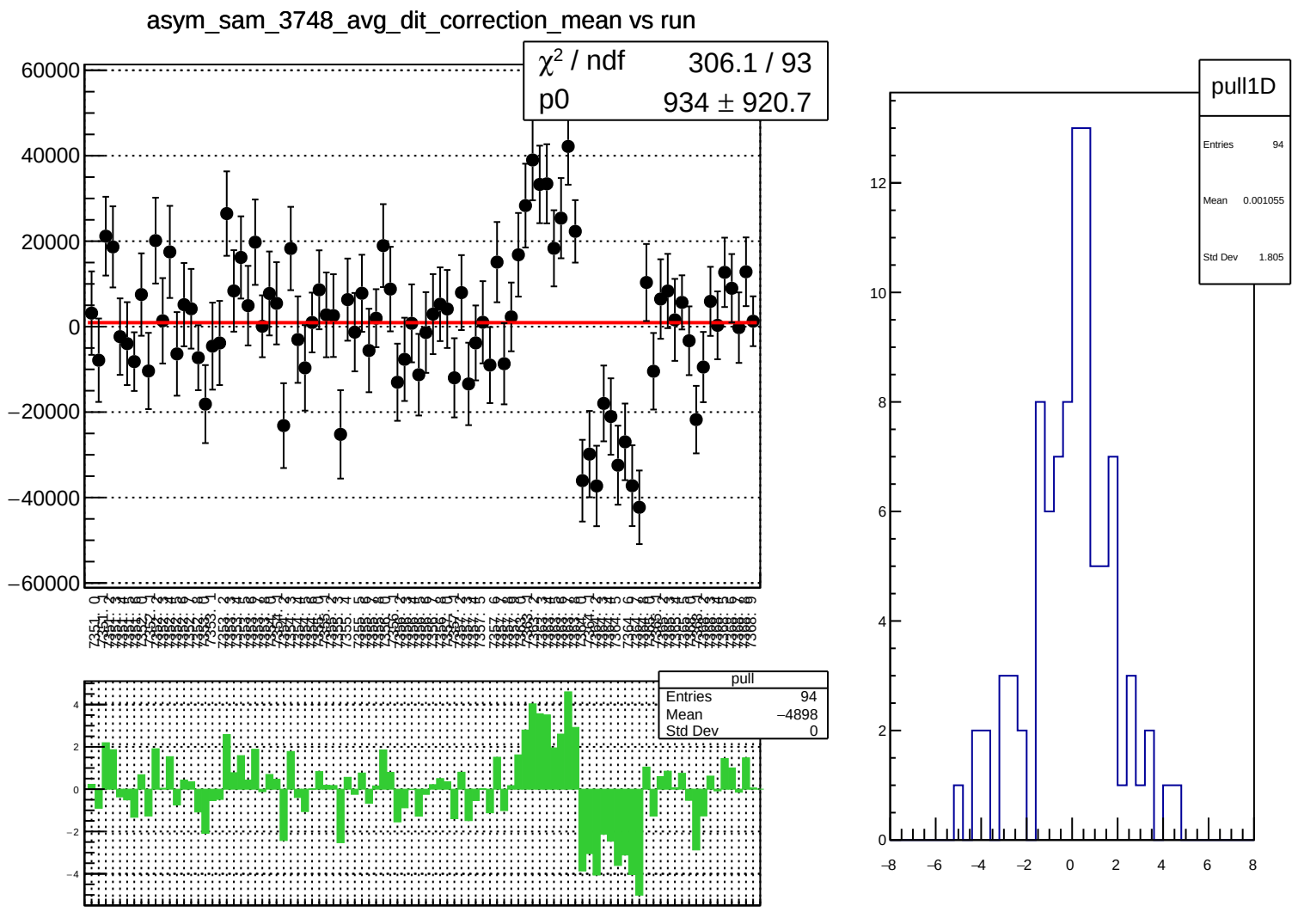

pull1D
Entries 94
Mean 0.01063
Std Dev 1.774
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

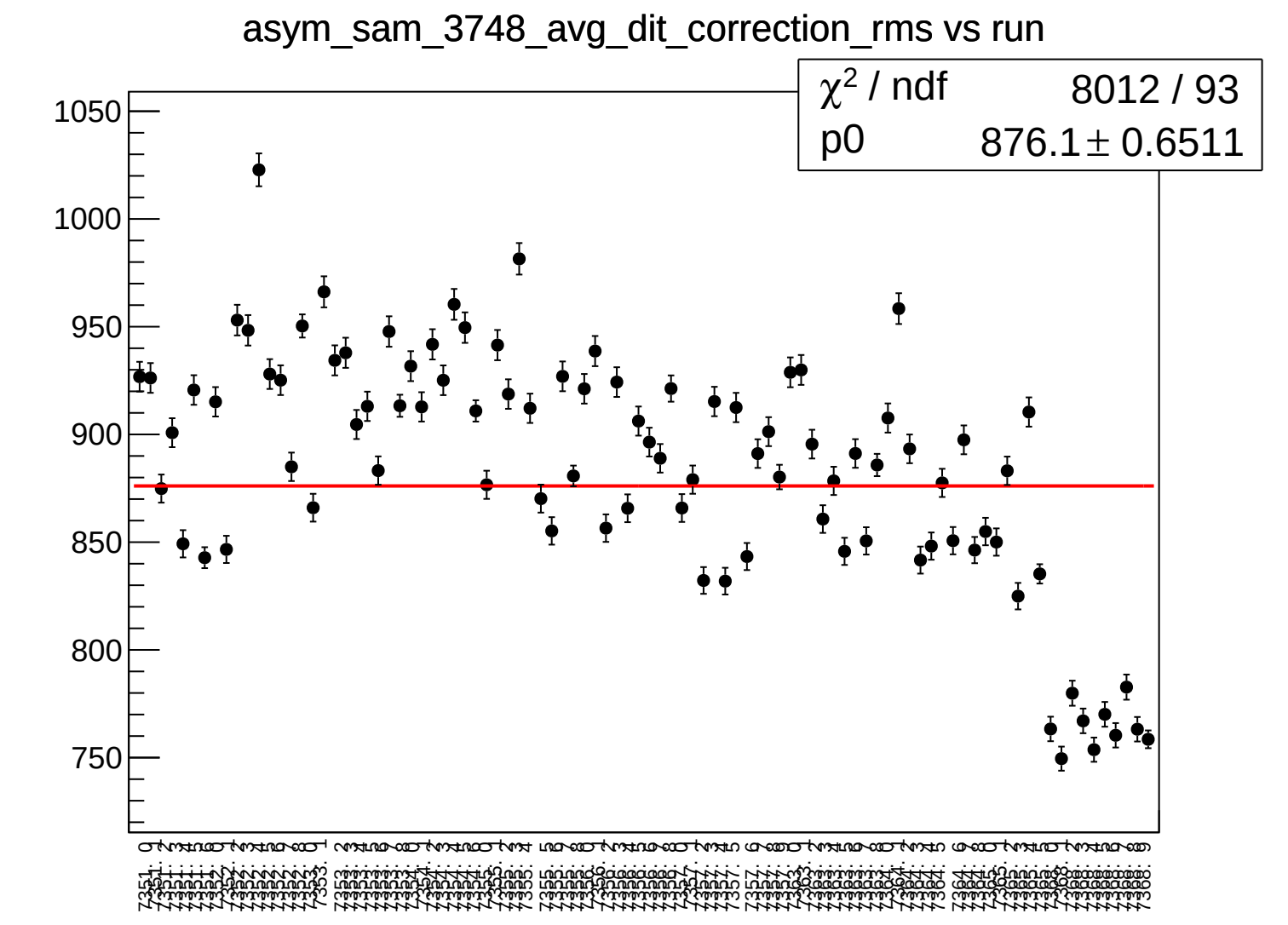

asym_sam_3748_avg_eigen_cor_correction_rms vs run
χ² / ndf 8072 / 93
p0 794.8 ± 0.5907
950
900
850
800
750
700
650

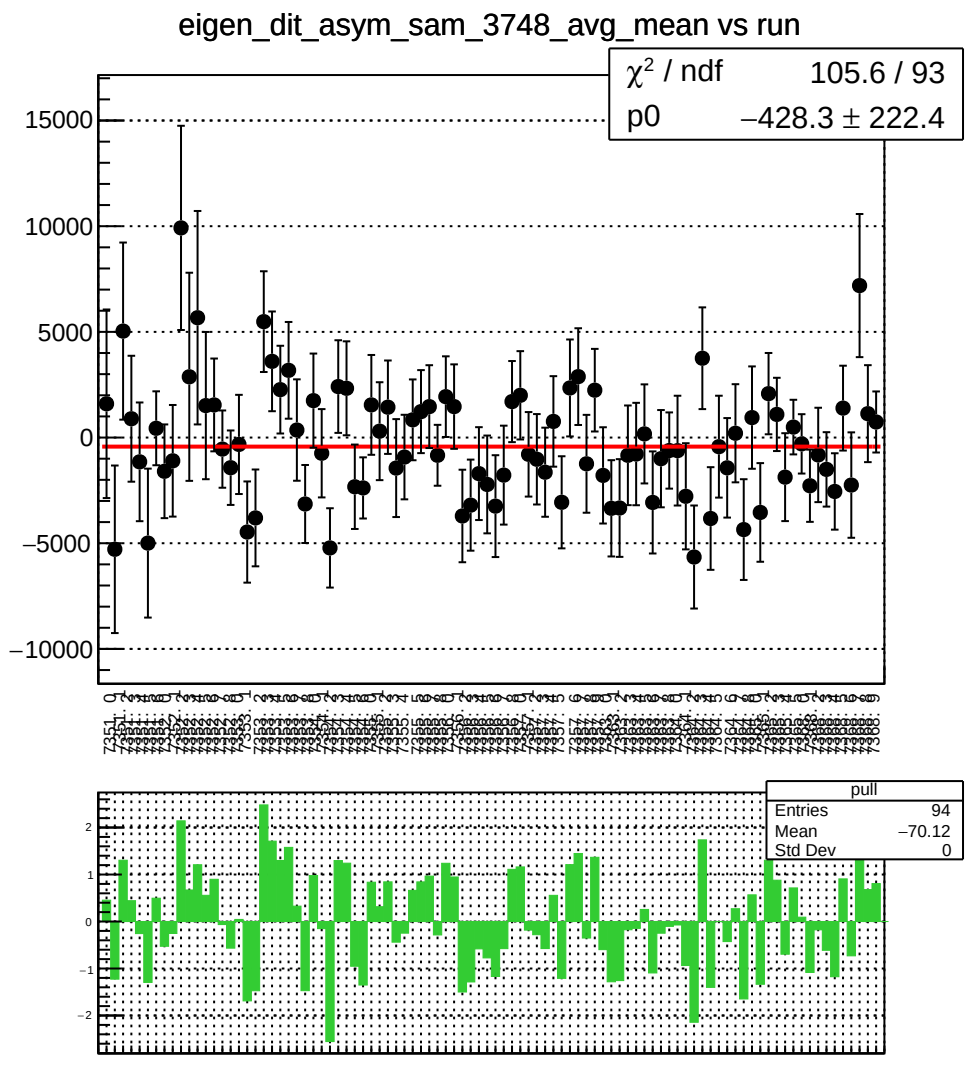

dit_asym_sam_3748_avg_mean vs run
χ² / ndf 105.6 / 93
p0 −428.3 ± 222.4
15000
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −70.13
Std Dev 0
2
1
0
−1
−2

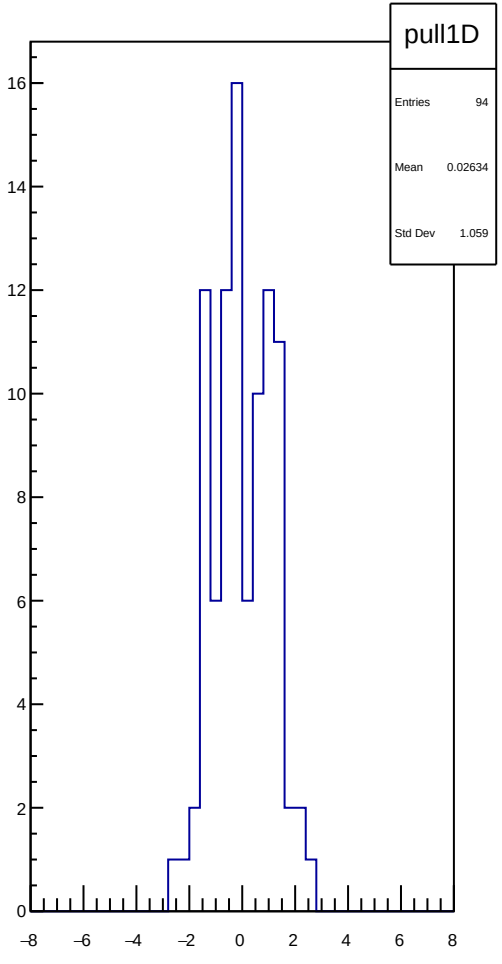

pull1D
Entries 94
Mean 0.02634
Std Dev 1.059
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

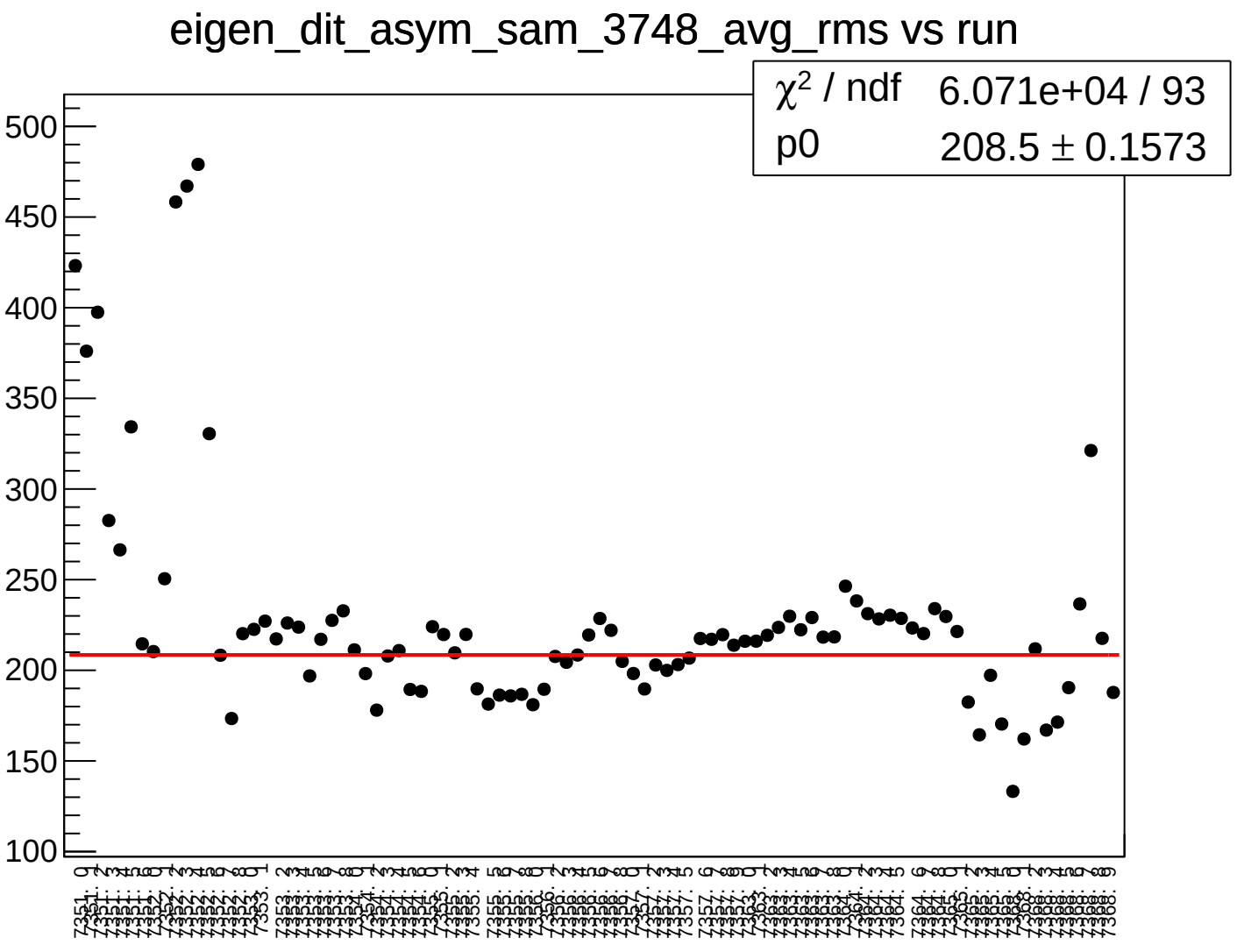

dit_asym_sam_3748_avg_rms vs run
χ² / ndf 6.071e+04 / 93
p0 208.5 ± 0.1573
500
450
400
350
300
250
200
150
100

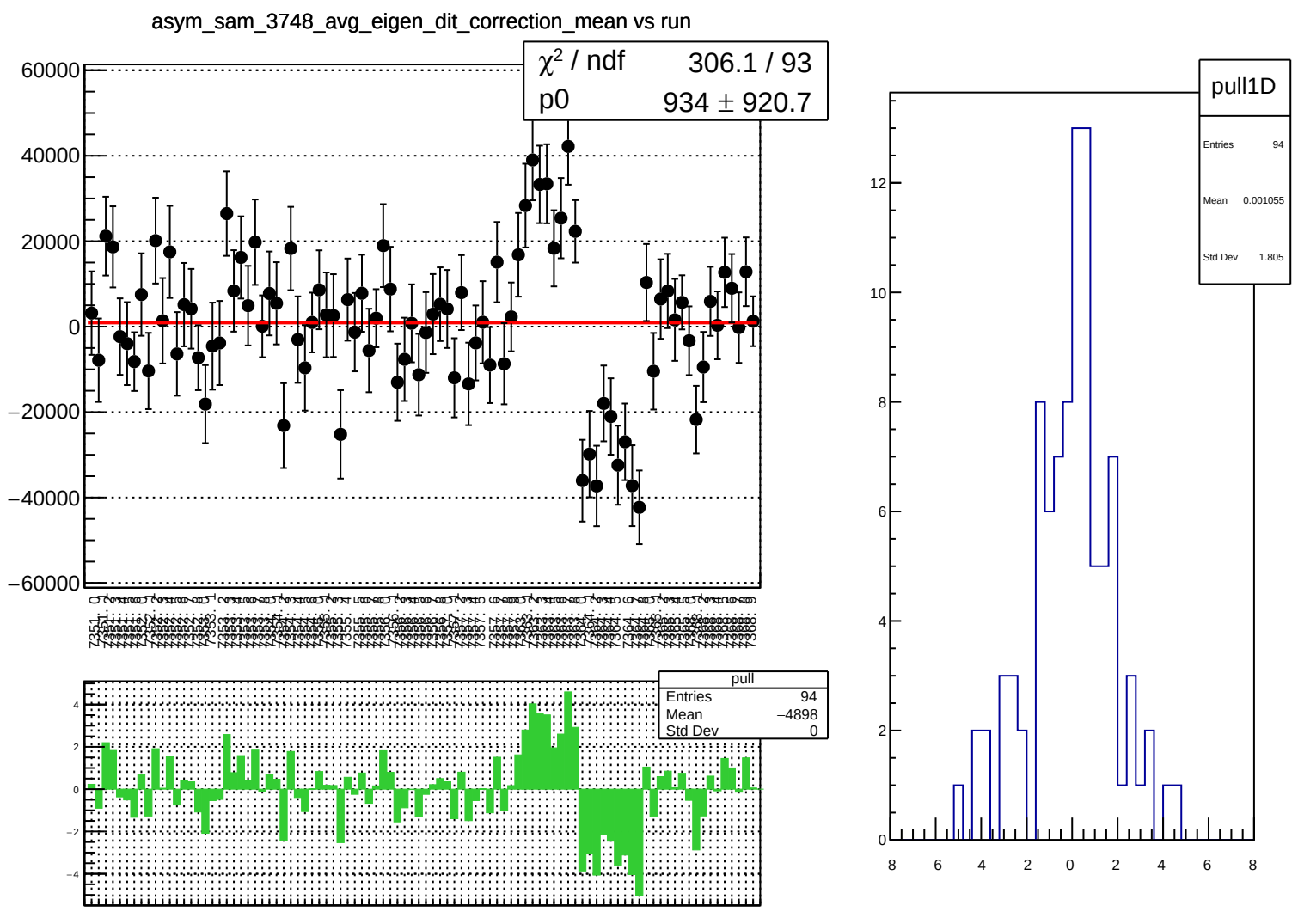

asym_sam_3748_avg_dit_correction_mean vs run
χ² / ndf 306.1 / 93
p0 934 ± 920.7
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −4898
Std Dev 0
4
2
0
−2
−4
pull1D
Entries 94
Mean 0.001055
Std Dev 1.805
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

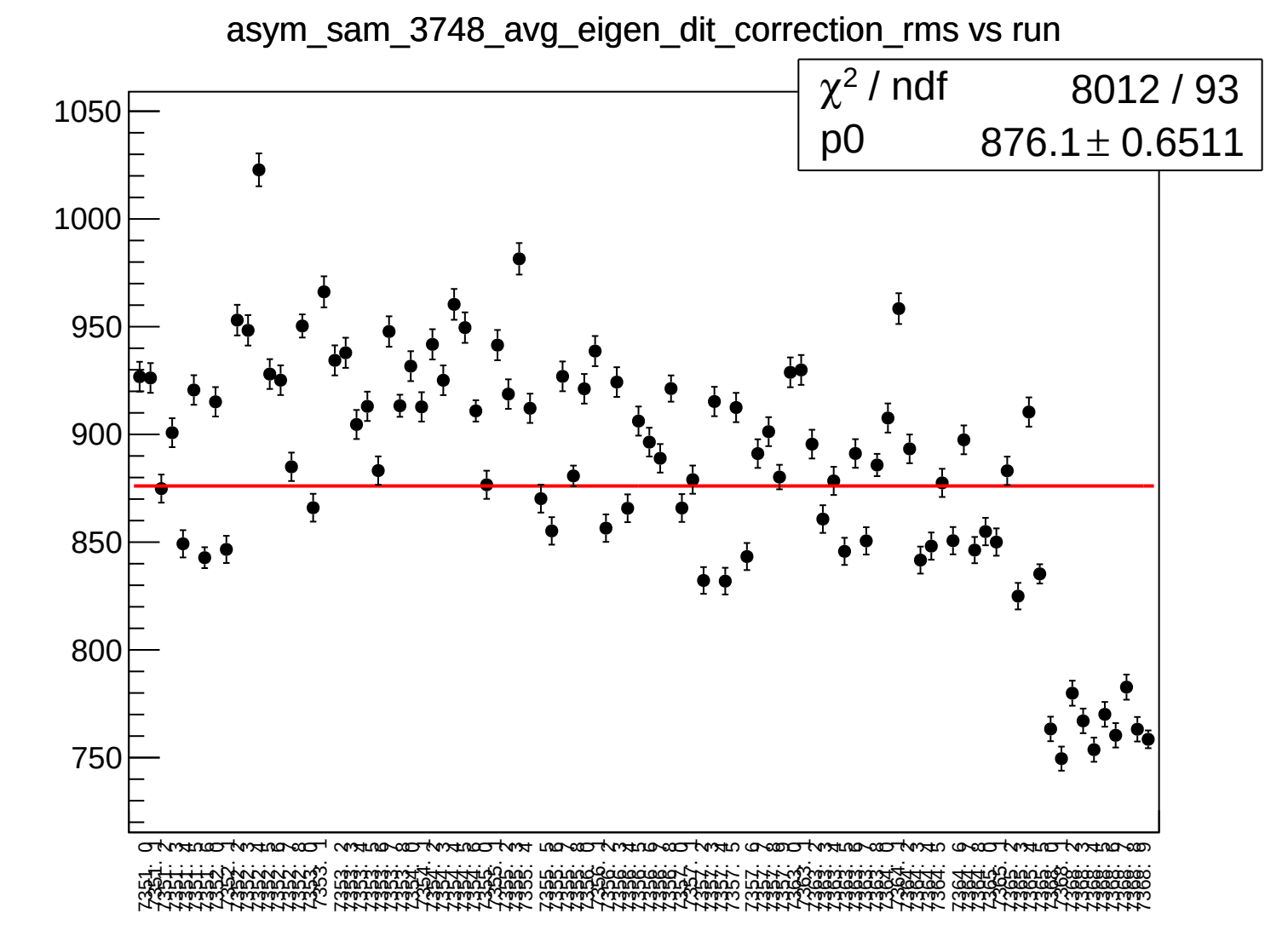

asym_sam_3748_avg_dit_correction_rms vs run
χ^2 / ndf 8012 / 93
p0 876.1 ± 0.6511
1050
1000
950
900
850
800
750

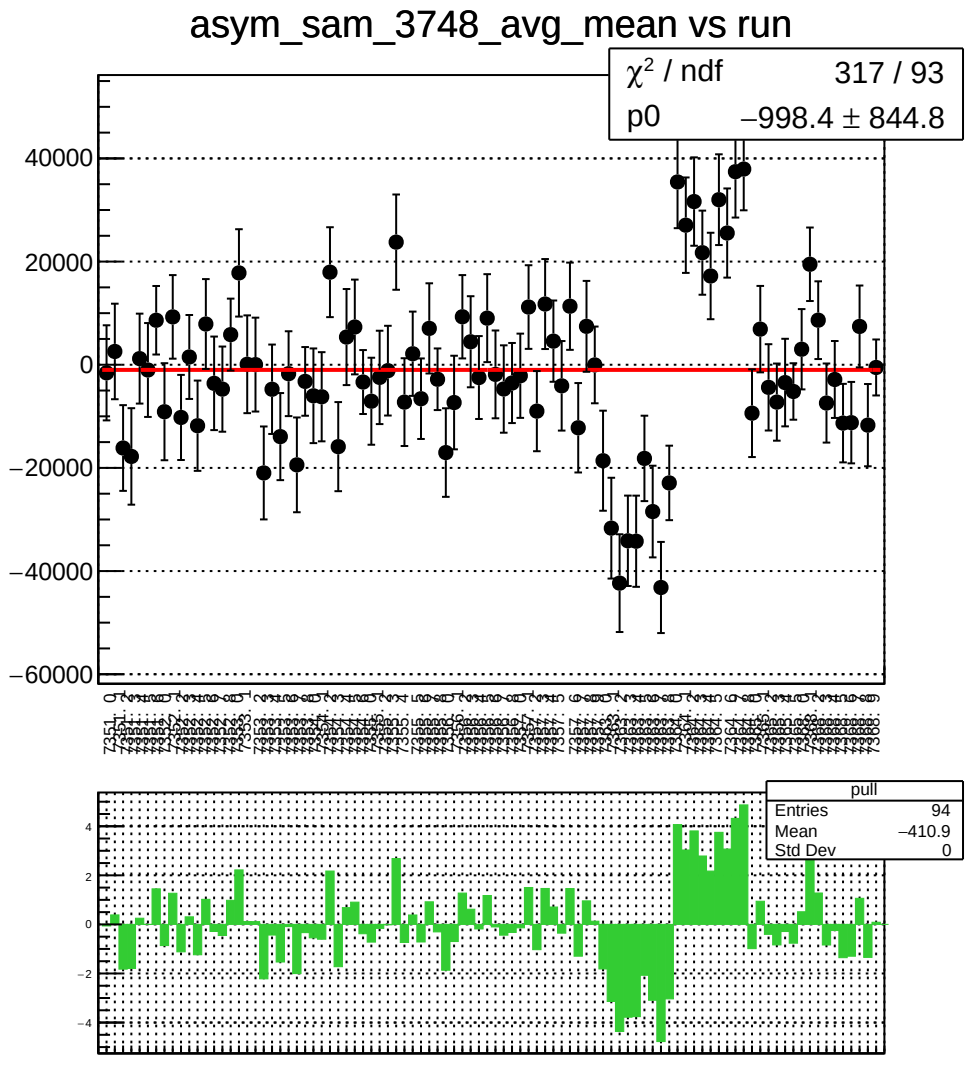

eigen_dit_asym_sam_3748_avg_mean vs run
χ² / ndf 105.6 / 93
p0 −428.3 ± 222.4
15000
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −70.12
Std Dev 0
2
1
0
−1
−2

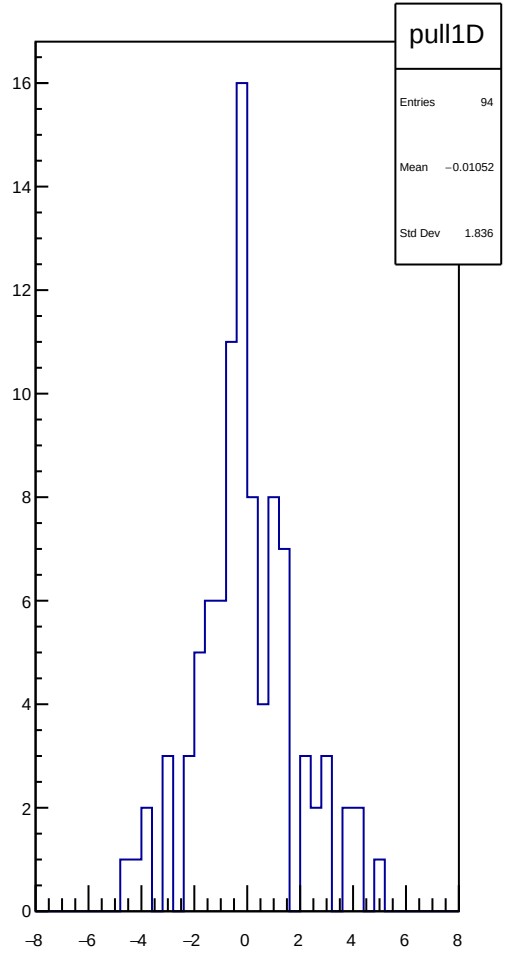

pull1D
Entries 94
Mean 0.02634
Std Dev 1.059
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

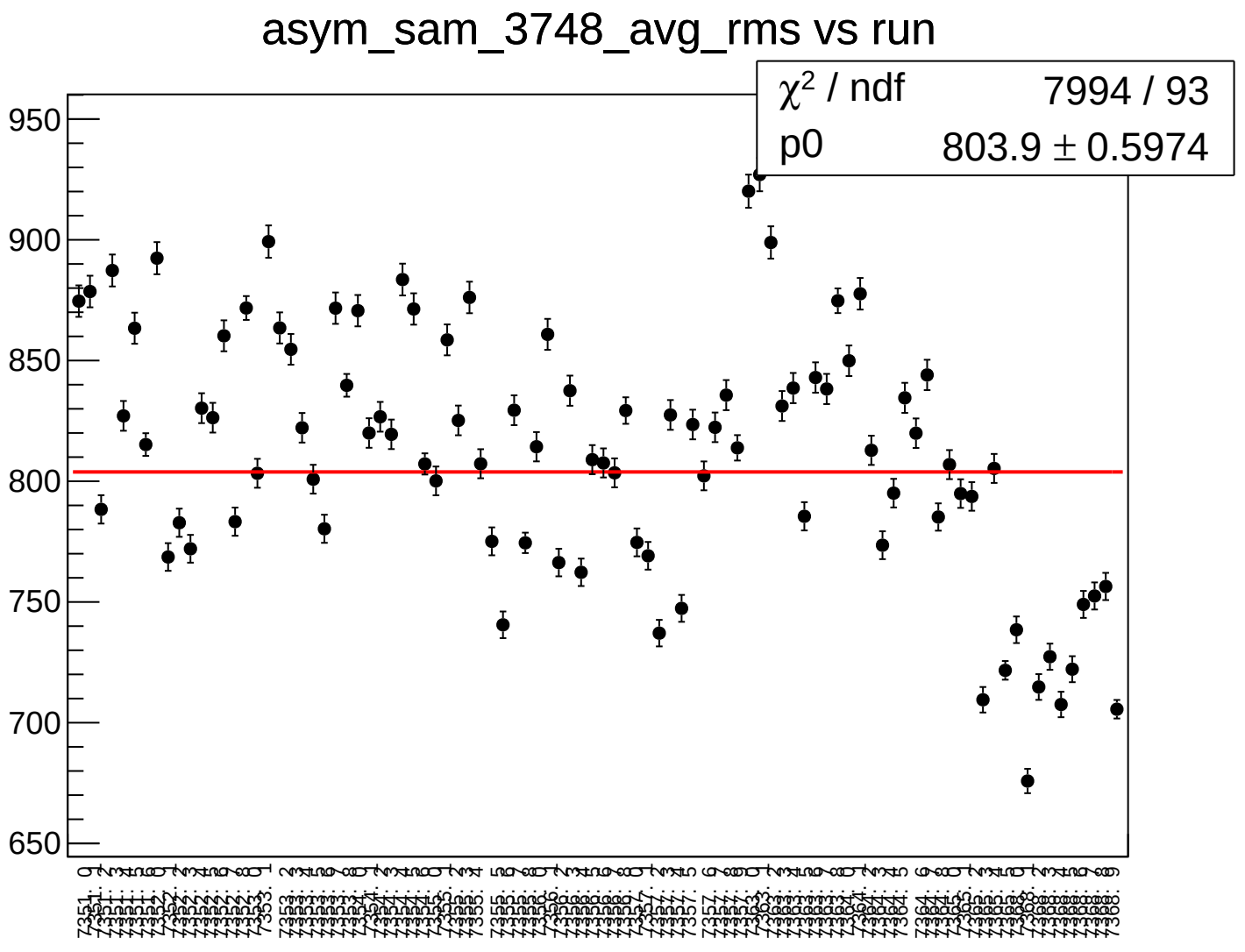

eigen_dit_asym_sam_3748_avg_rms vs run
χ² / ndf 6.071e+04 / 93
p0 208.5 ± 0.1573
500
450
400
350
300
250
200
150
100

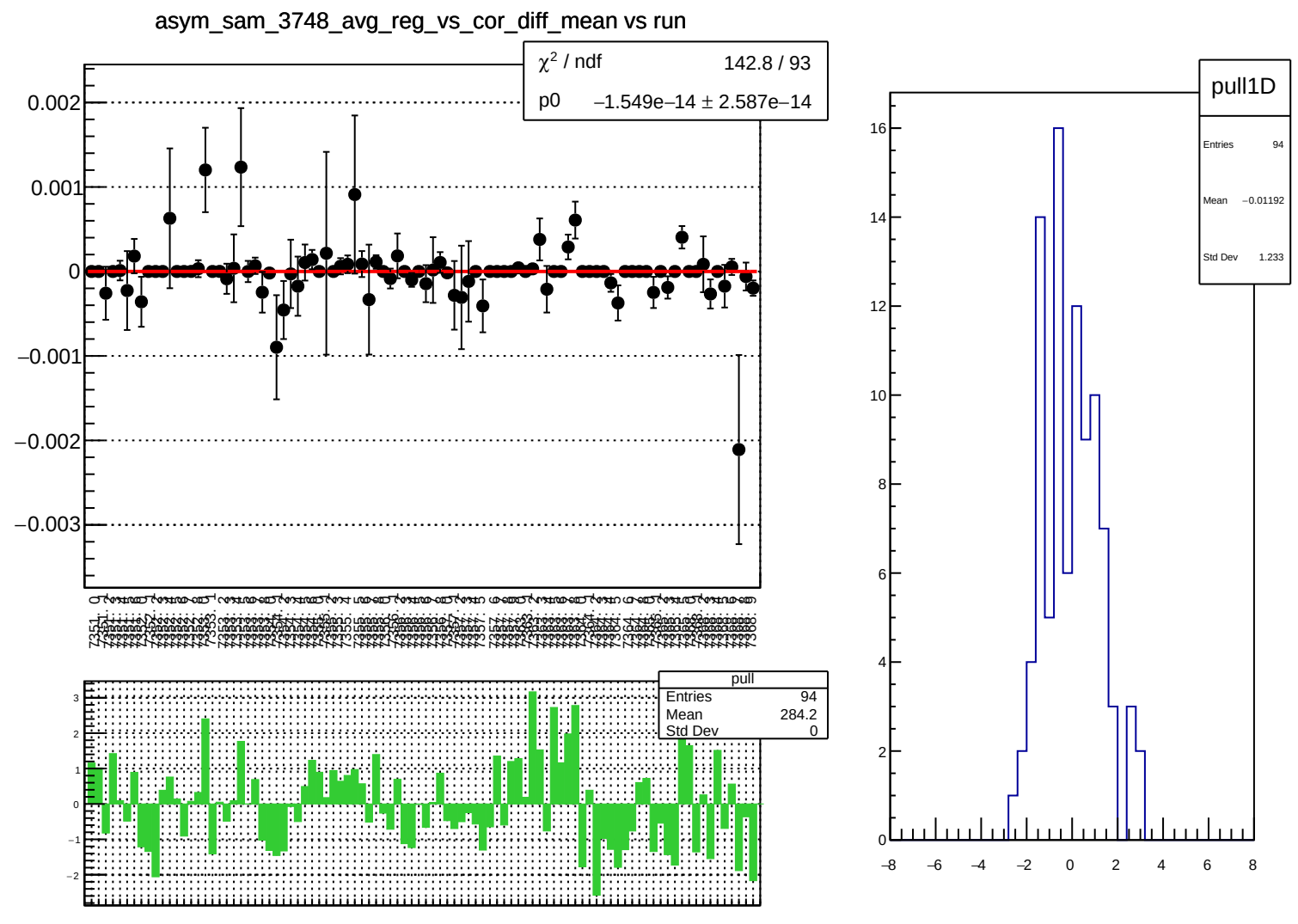

asym_sam_3748_avg_eigen_dit_correction_mean vs run
χ² / ndf 306.1 / 93
p0 934 ± 920.7
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −4898
Std Dev 0
4
2
0
−2
−4
pull1D
Entries 94
Mean 0.001055
Std Dev 1.805
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

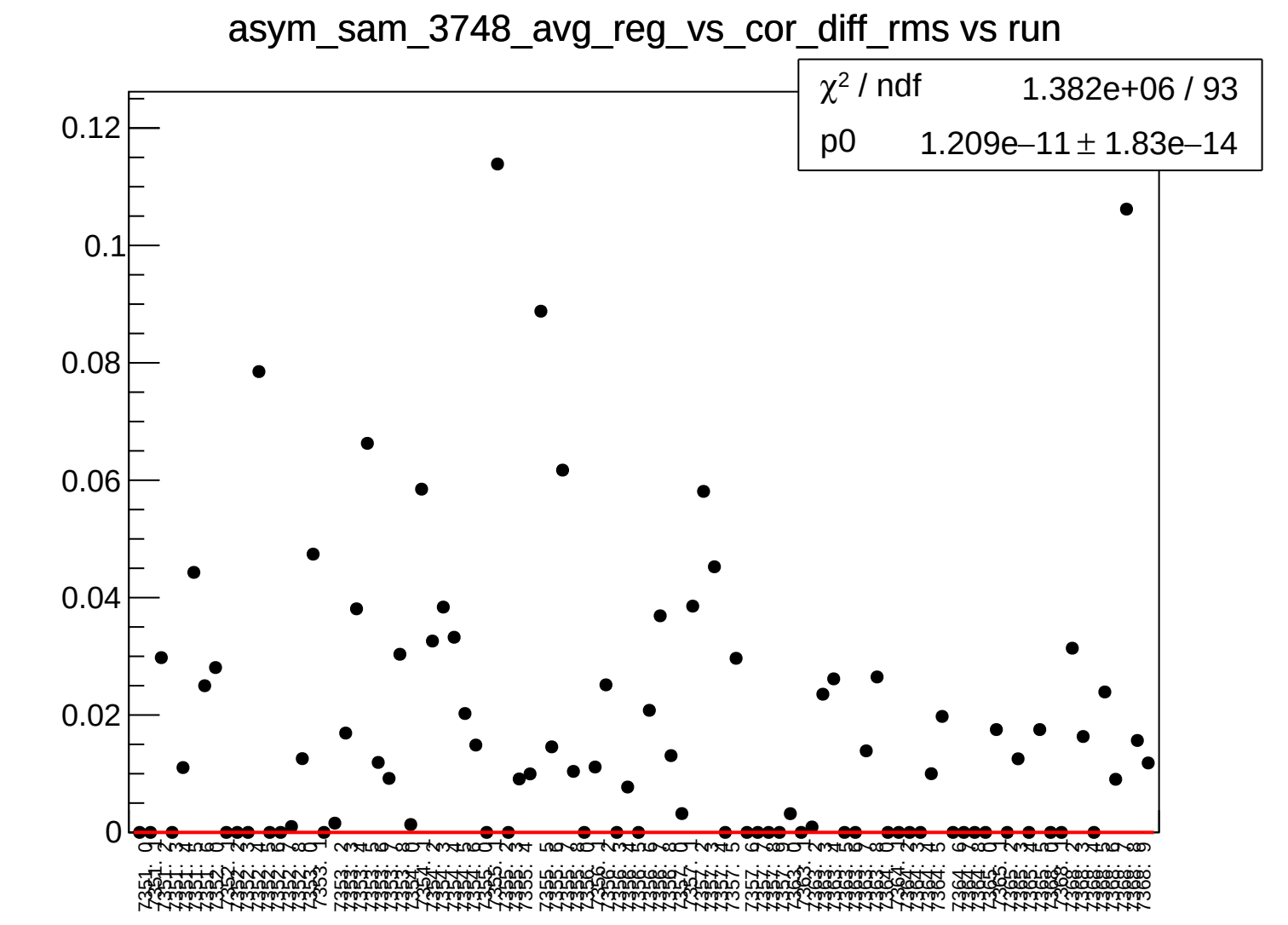

asym_sam_3748_avg_eigen_dit_correction_rms vs run
χ² / ndf 8012 / 93
p0 876.1 ± 0.6511
1050
1000
950
900
850
800
750

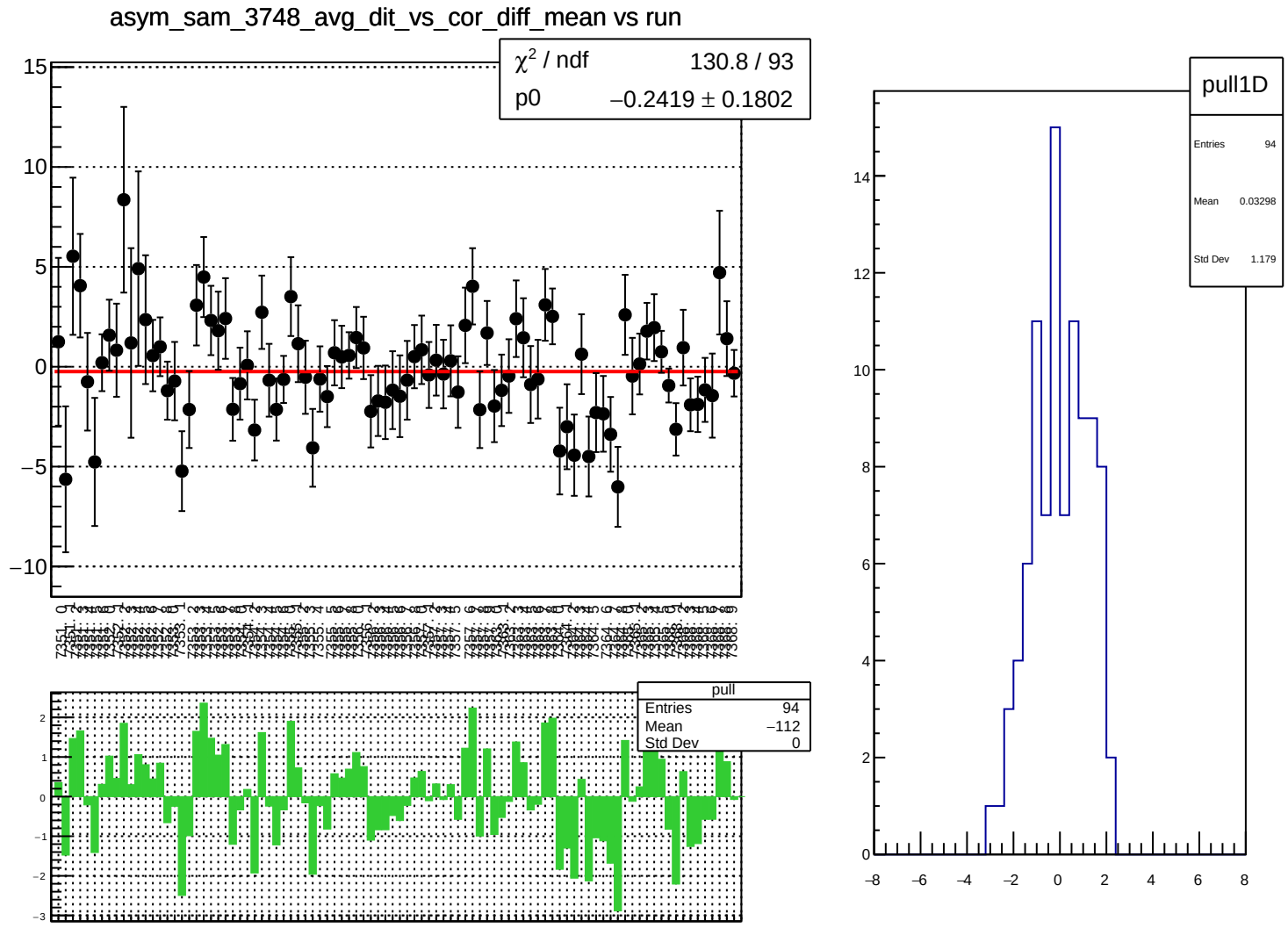

asym_sam_3748_avg_mean vs run
χ² / ndf 317 / 93
p0 −998.4 ± 844.8
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −410.9
Std Dev 0
4
2
0
−2
−4

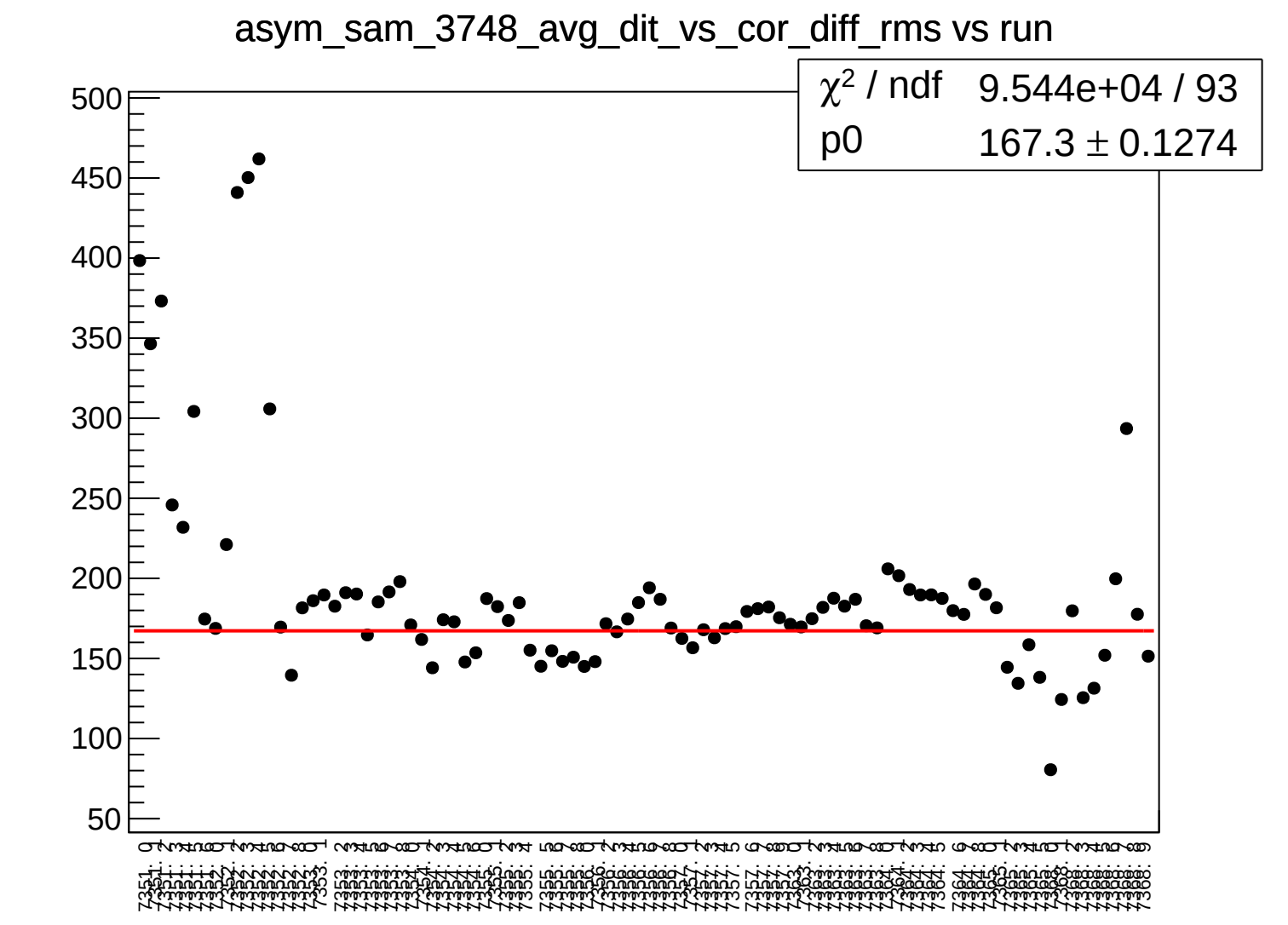

pull1D
Entries 94
Mean −0.01052
Std Dev 1.836
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

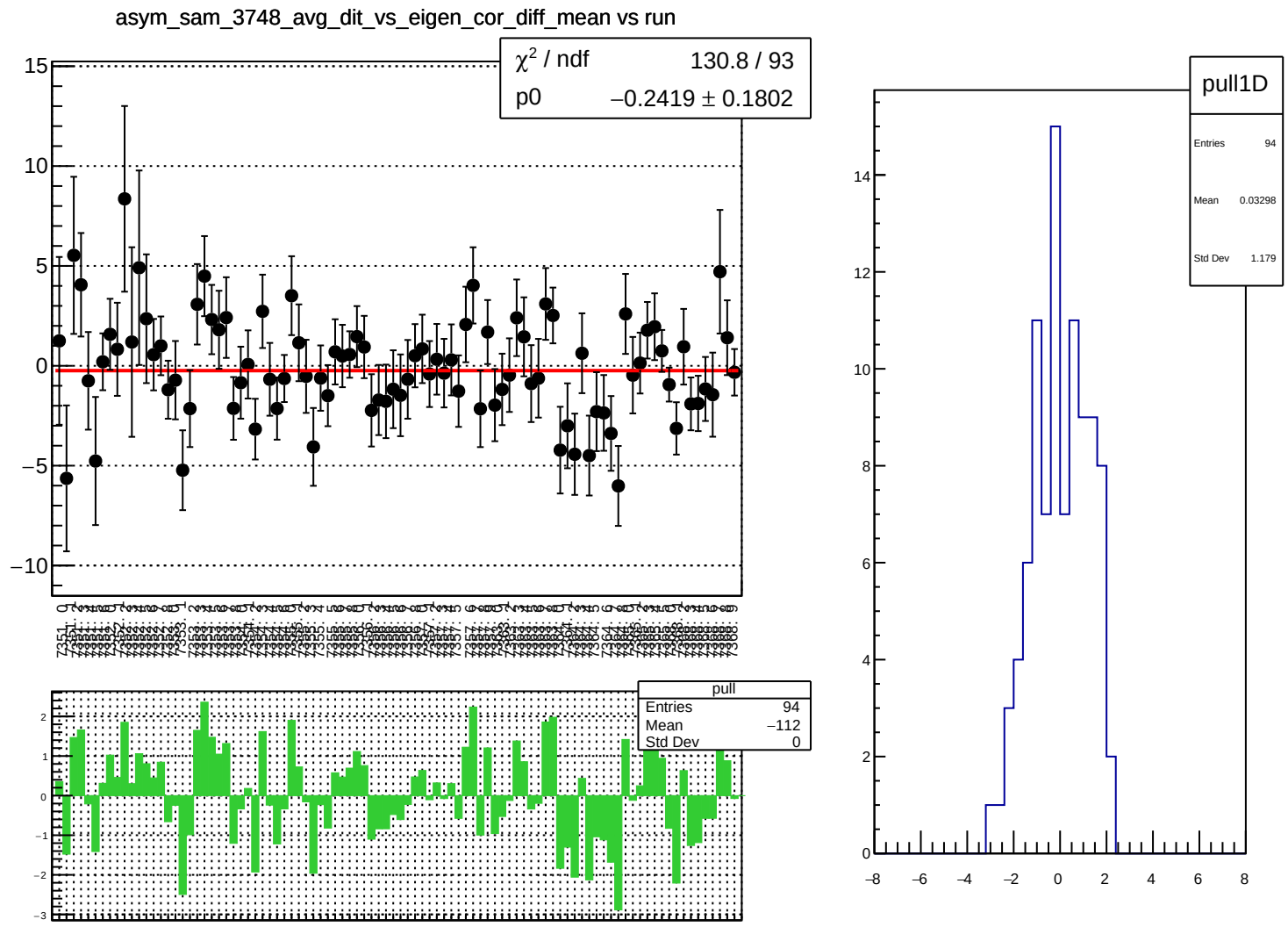

asym_sam_3748_avg_rms vs run
χ² / ndf 7994 / 93
p0 803.9 ± 0.5974
950
900
850
800
750
700
650

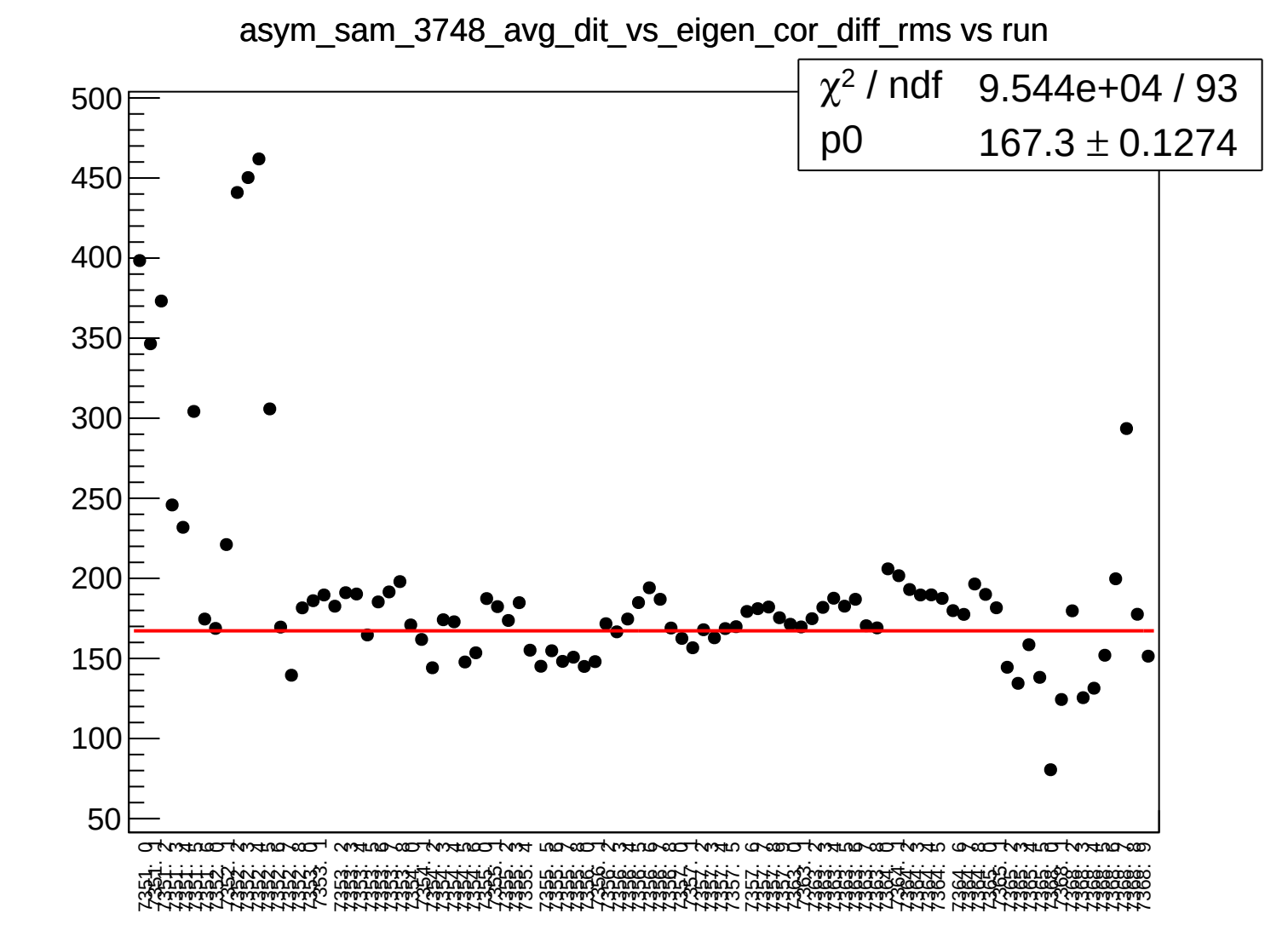

asym_sam_3748_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 142.8 / 93
p0 −1.549e−14 ± 2.587e−14
0.002
0.001
0
−0.001
−0.002
−0.003
pull
Entries 94
Mean 284.2
Std Dev 0
pull1D
Entries 94
Mean −0.01192
Std Dev 1.233
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

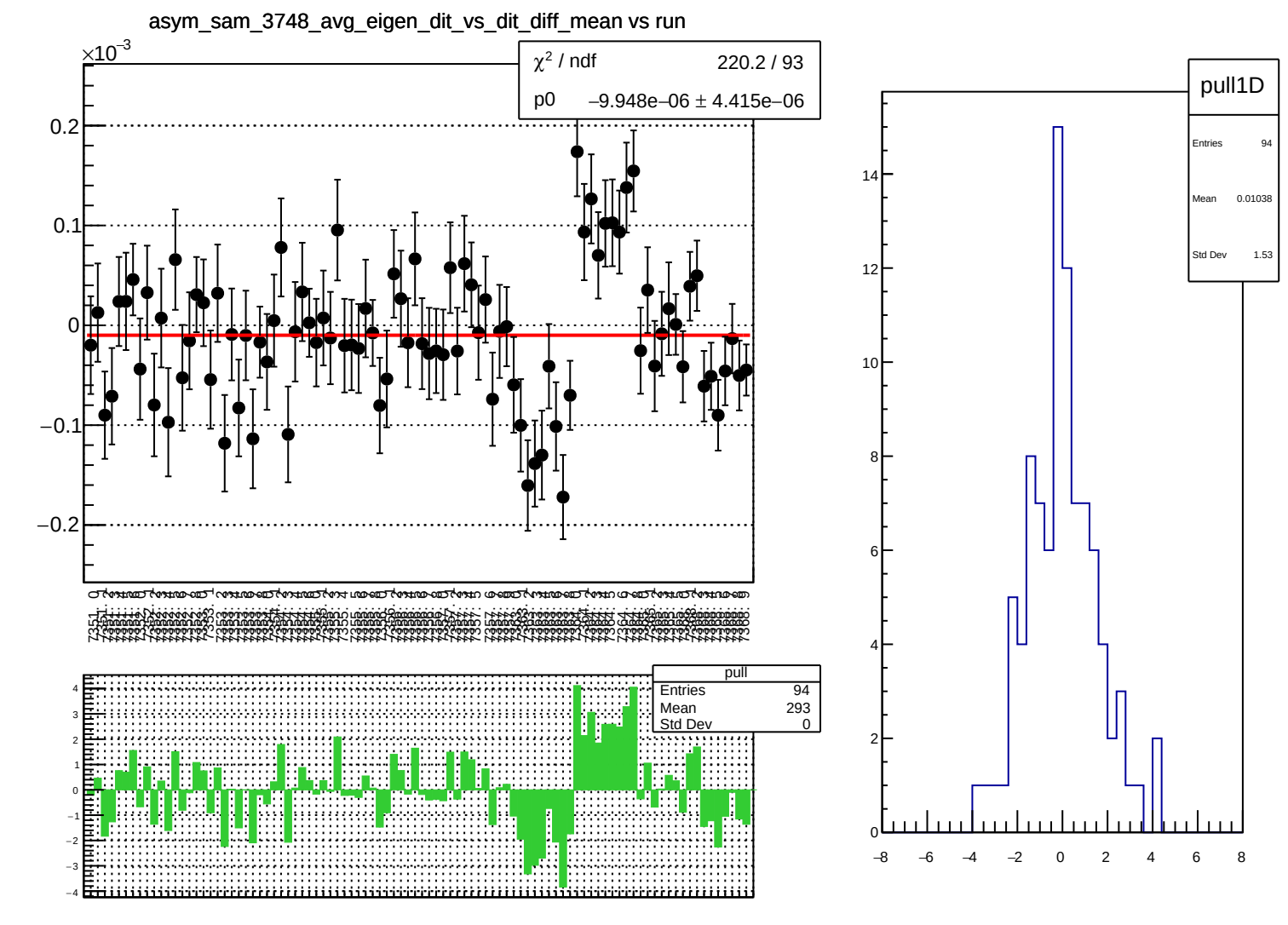

asym_sam_3748_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.382e+06 / 93
p0 1.209e−11 ± 1.83e−14
0.12
0.1
0.08
0.06
0.04
0.02
0

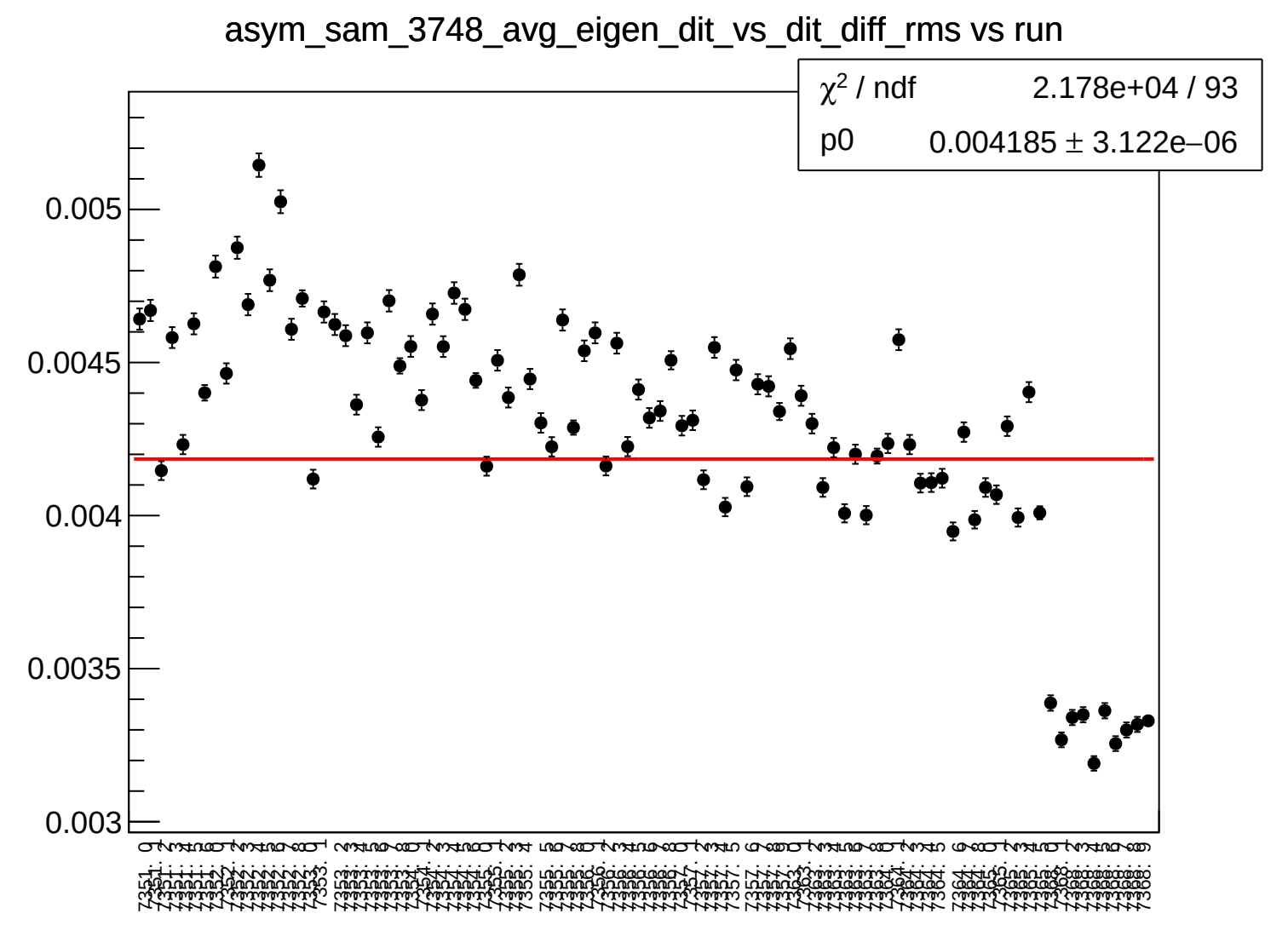

asym_sam_3748_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 130.8 / 93
p0 −0.2419 ± 0.1802
pull
Entries 94
Mean −112
Std Dev 0
pull1D
Entries 94
Mean 0.03298
Std Dev 1.179

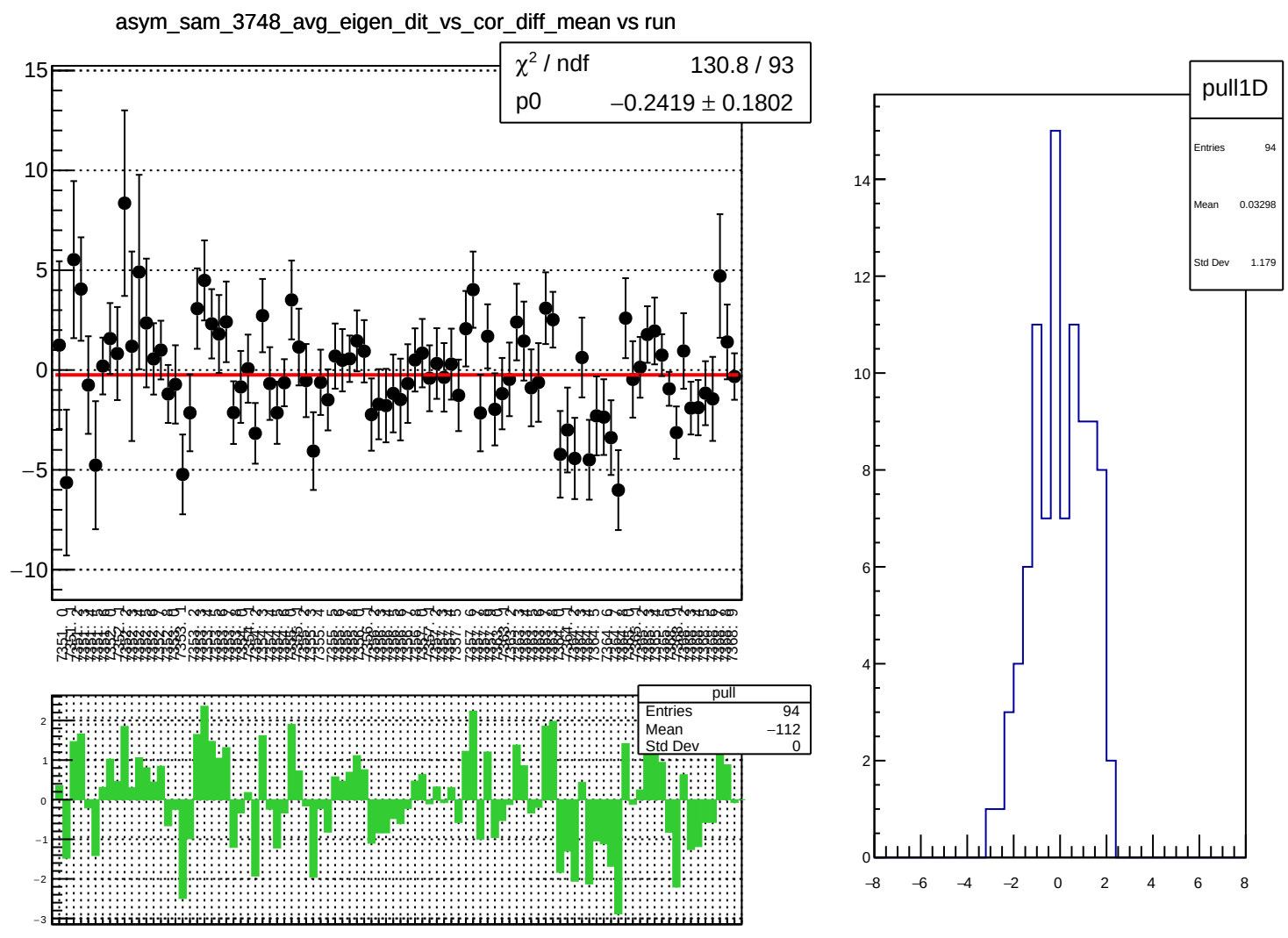

asym_sam_3748_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 9.544e+04 / 93
p0 167.3 ± 0.1274
500
450
400
350
300
250
200
150
100
50

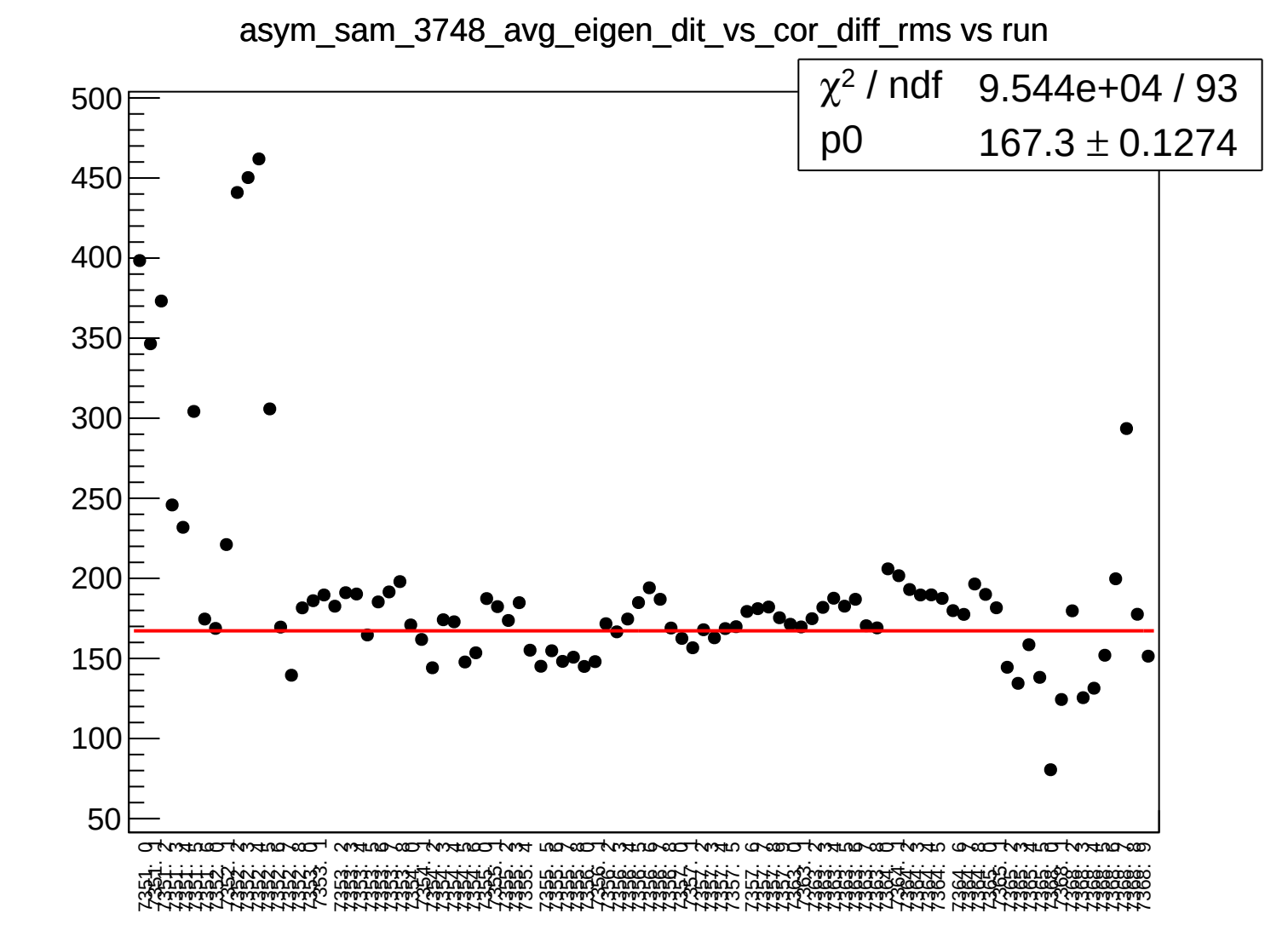

asym_sam_3748_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 130.8 / 93
p0 −0.2419 ± 0.1802
pull
Entries 94
Mean −112
Std Dev 0
pull1D
Entries 94
Mean 0.03298
Std Dev 1.179

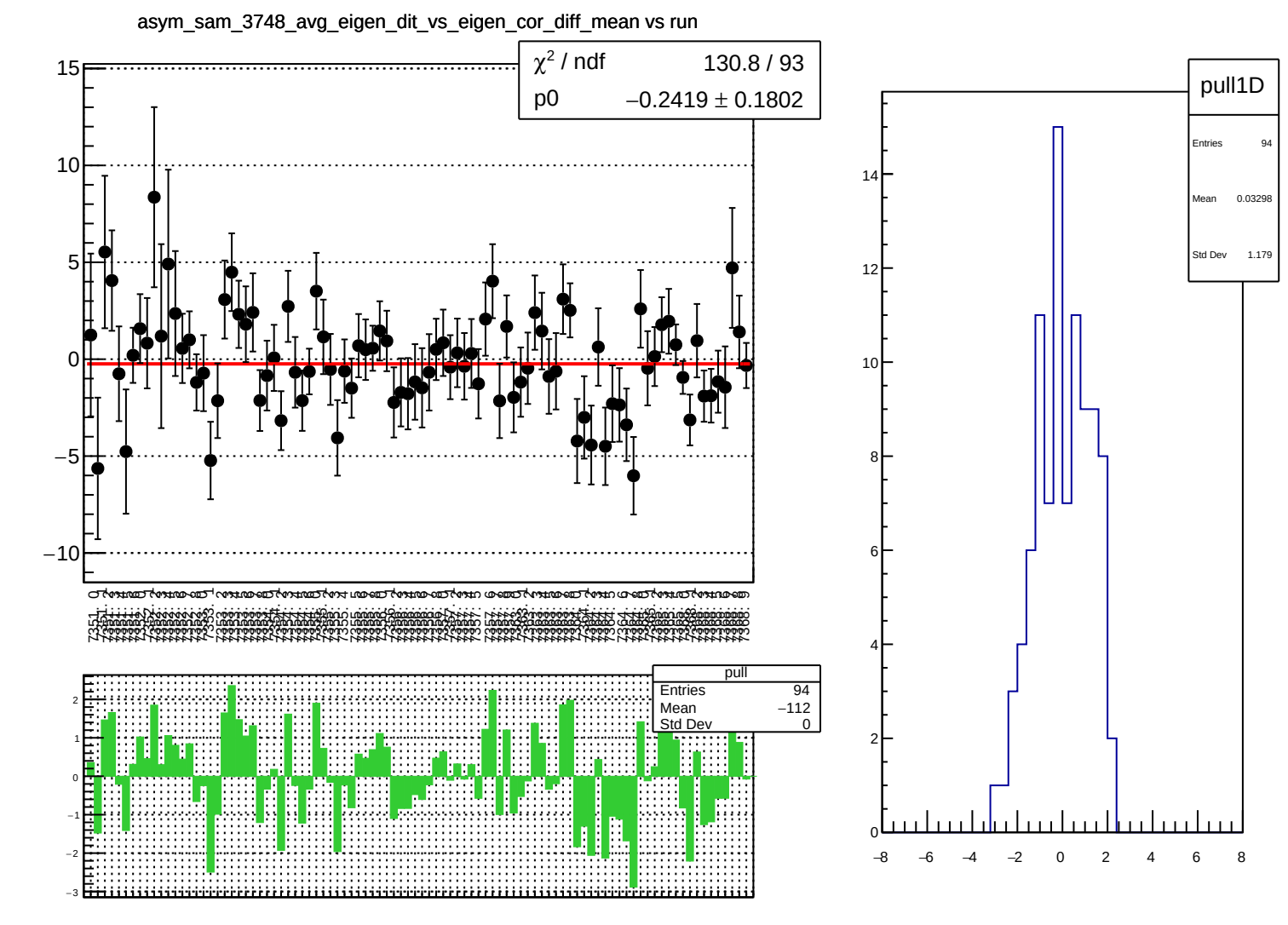

asym_sam_3748_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.544e+04 / 93
p0 167.3 ± 0.1274
500
450
400
350
300
250
200
150
100
50

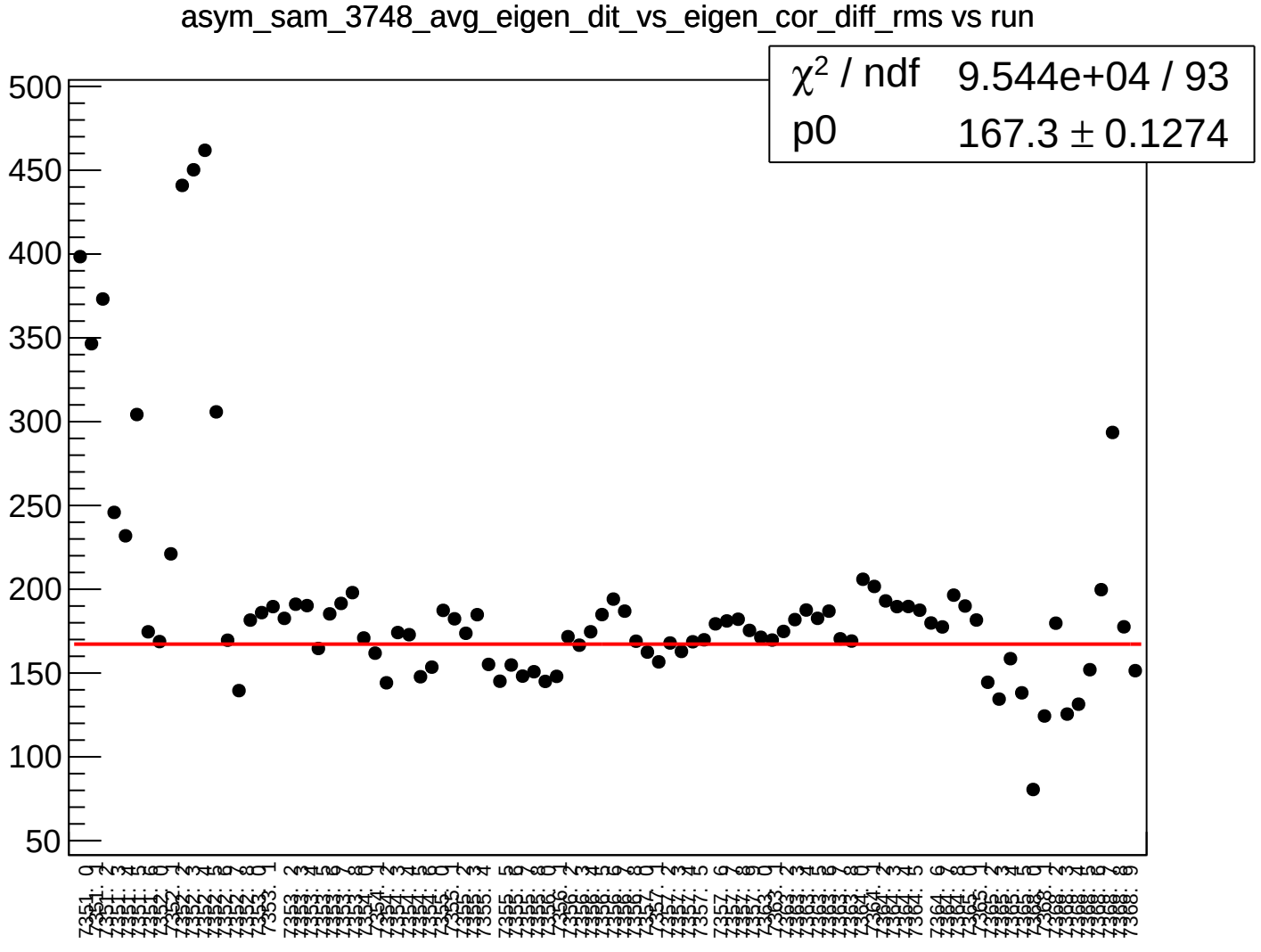

asym_sam_3748_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 220.2 / 93
p0 −9.948e−06 ± 4.415e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 94
Mean 293
Std Dev 0
pull1D
Entries 94
Mean 0.01038
Std Dev 1.53

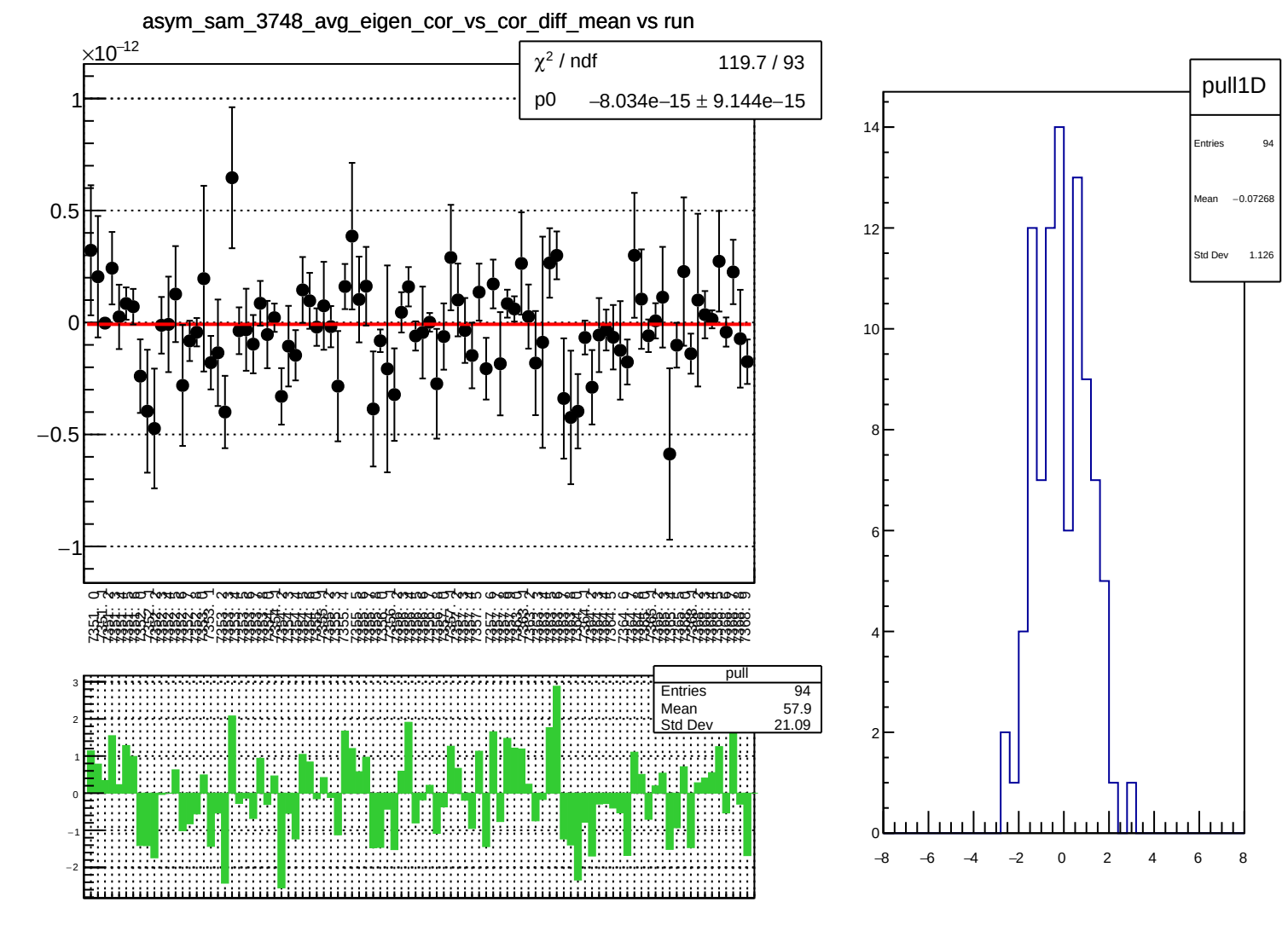

asym_sam_3748_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.178e+04 / 93
p0 0.004185 ± 3.122e−06
0.005
0.0045
0.004
0.0035
0.003

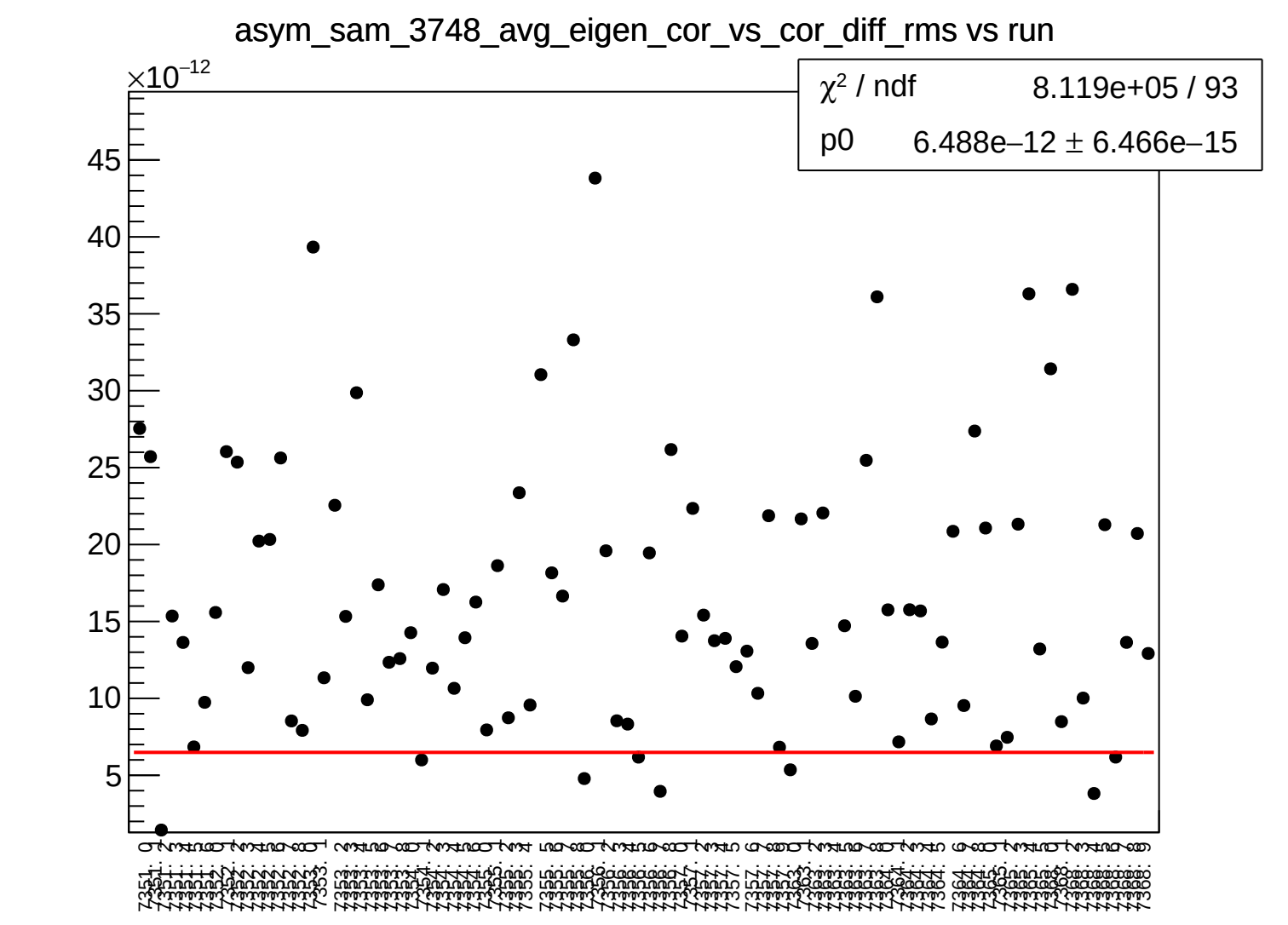

asym_sam_3748_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 130.8 / 93
p0 −0.2419 ± 0.1802
pull
Entries 94
Mean −112
Std Dev 0
pull1D
Entries 94
Mean 0.03298
Std Dev 1.179

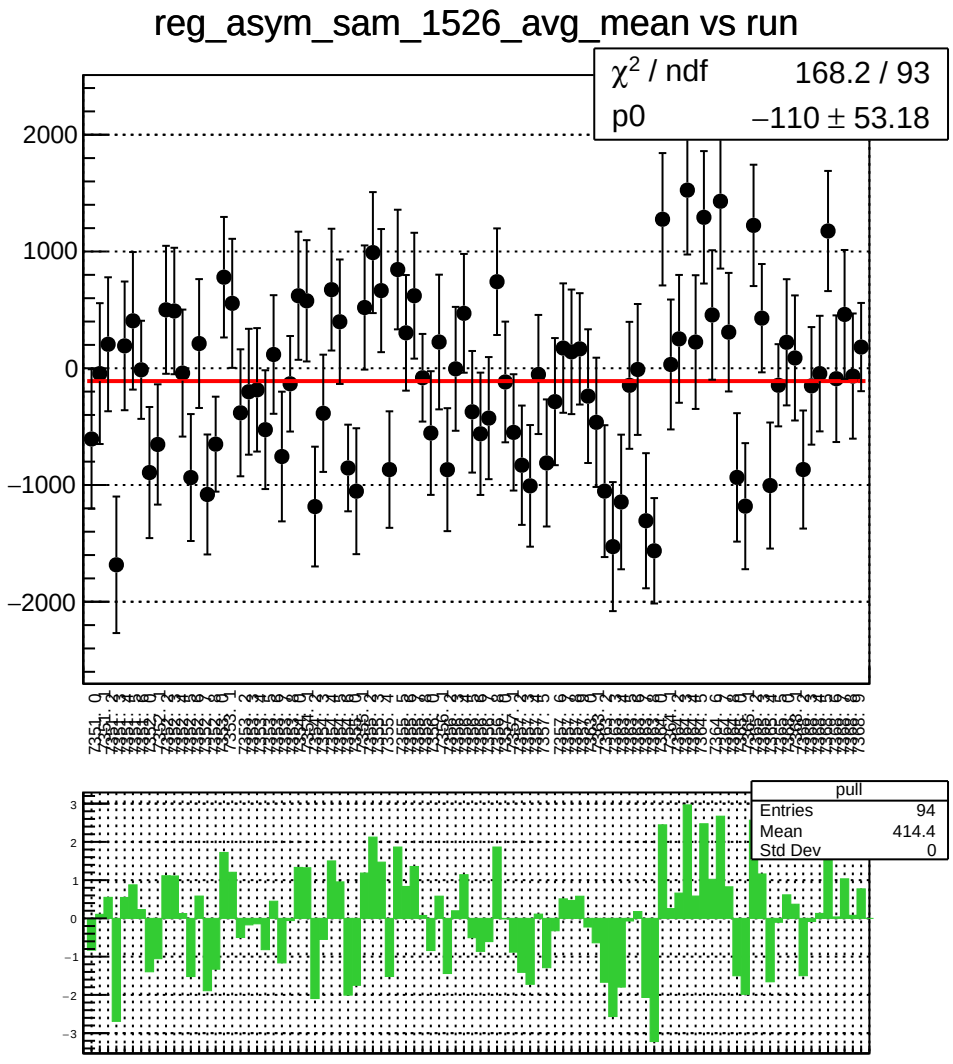

asym_sam_3748_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.544e+04 / 93
p0 167.3 ± 0.1274
500
450
400
350
300
250
200
150
100
50

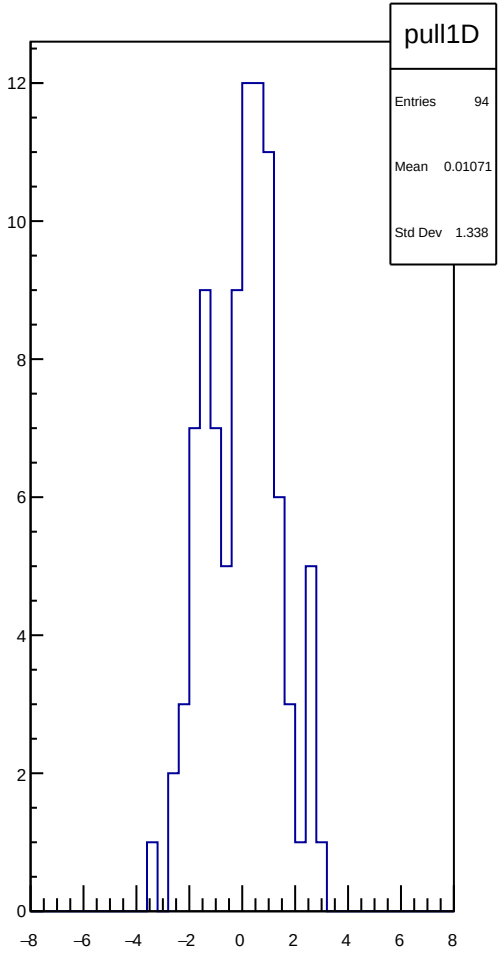

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 130.8 / 93
p0 −0.2419 ± 0.1802
pull
Entries 94
Mean −112
Std Dev 0
pull1D
Entries 94
Mean 0.03298
Std Dev 1.179

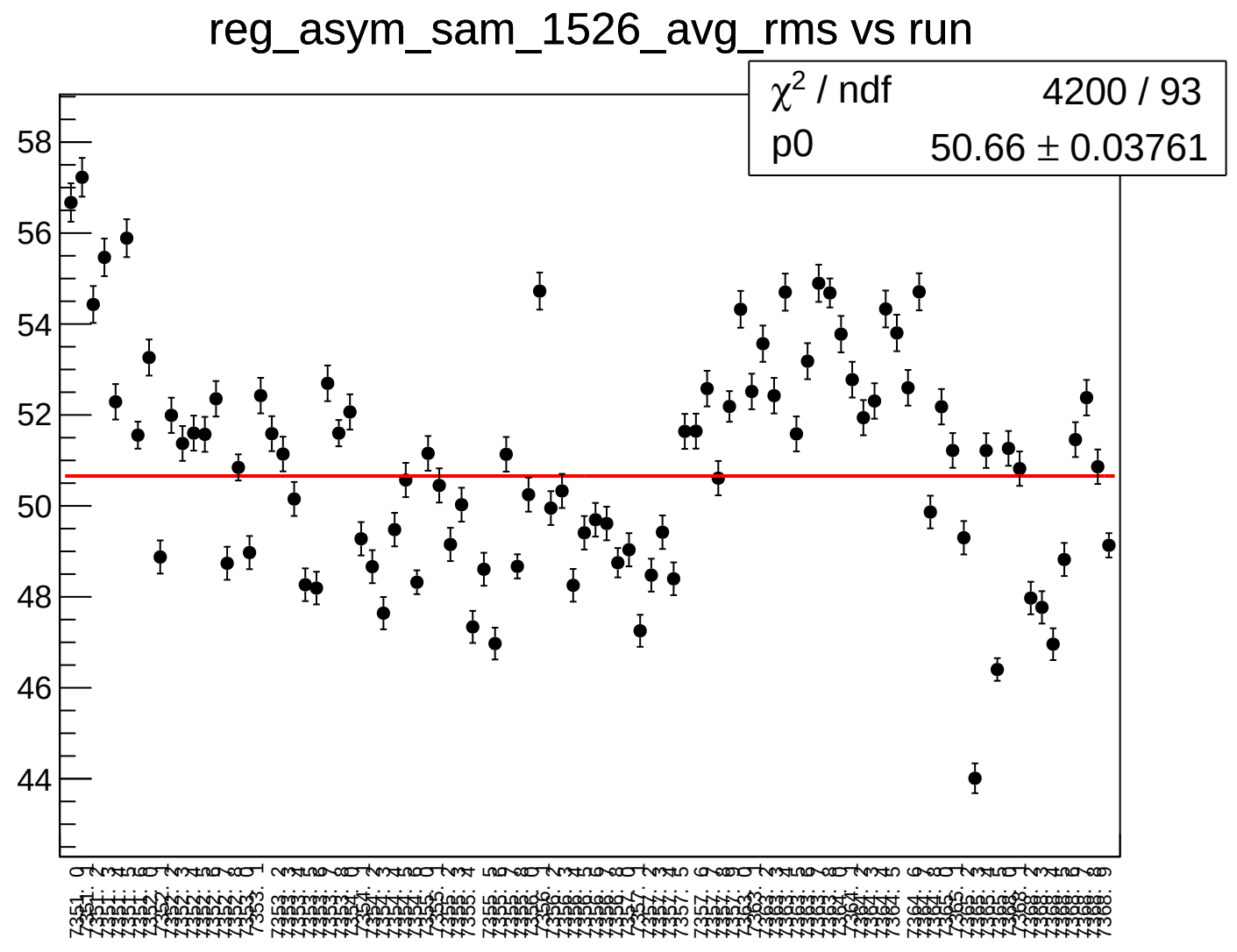

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.544e+04 / 93
p0 167.3 ± 0.1274
500
450
400
350
300
250
200
150
100
50

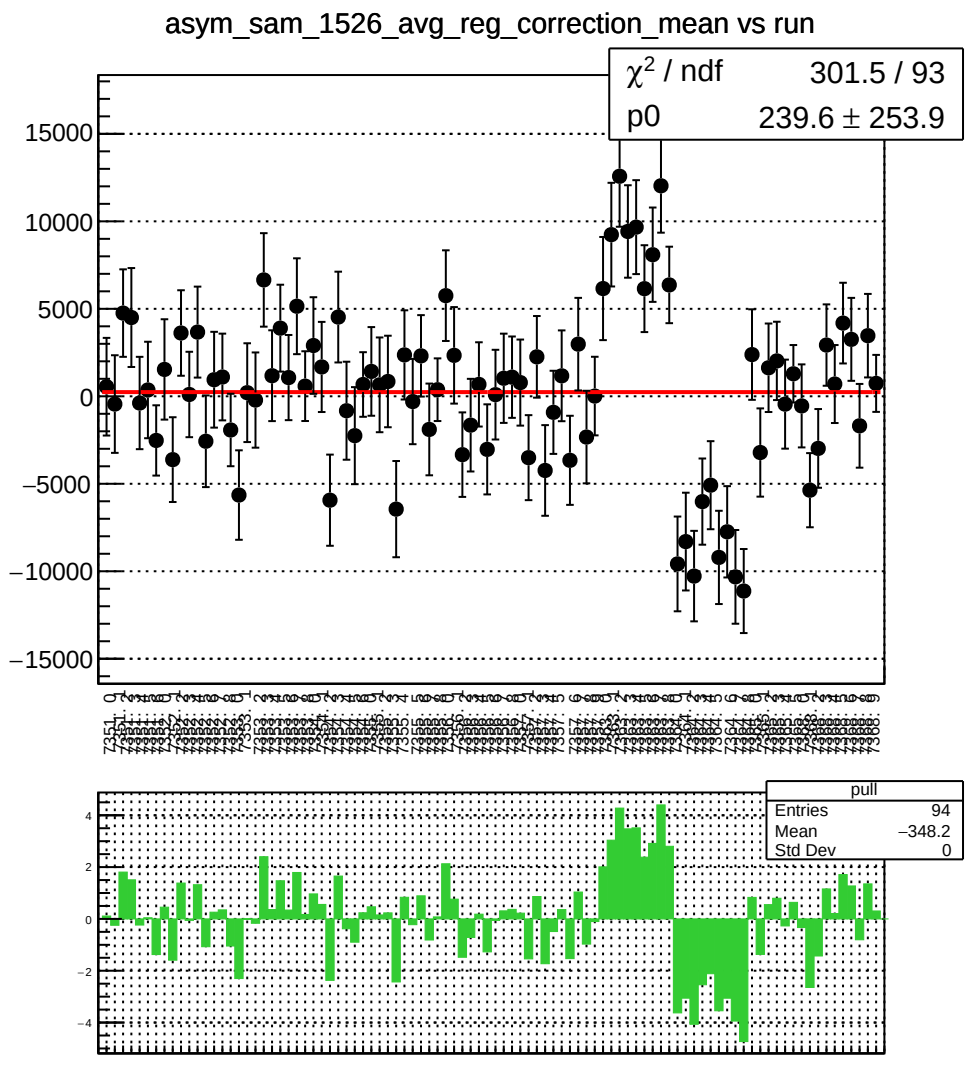

asym_sam_3748_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 119.7 / 93
p0 −8.034e−15 ± 9.144e−15
pull
Entries 94
Mean 57.9
Std Dev 21.09
pull1D
Entries 94
Mean −0.07268
Std Dev 1.126

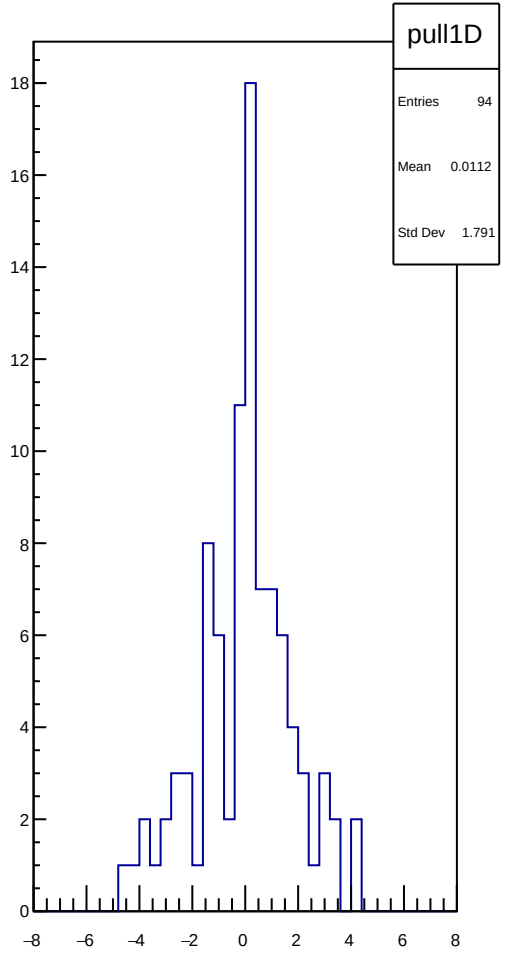

asym_sam_3748_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 8.119e+05 / 93
p0 6.488e−12 ± 6.466e−15
45
40
35
30
25
20
15
10
5

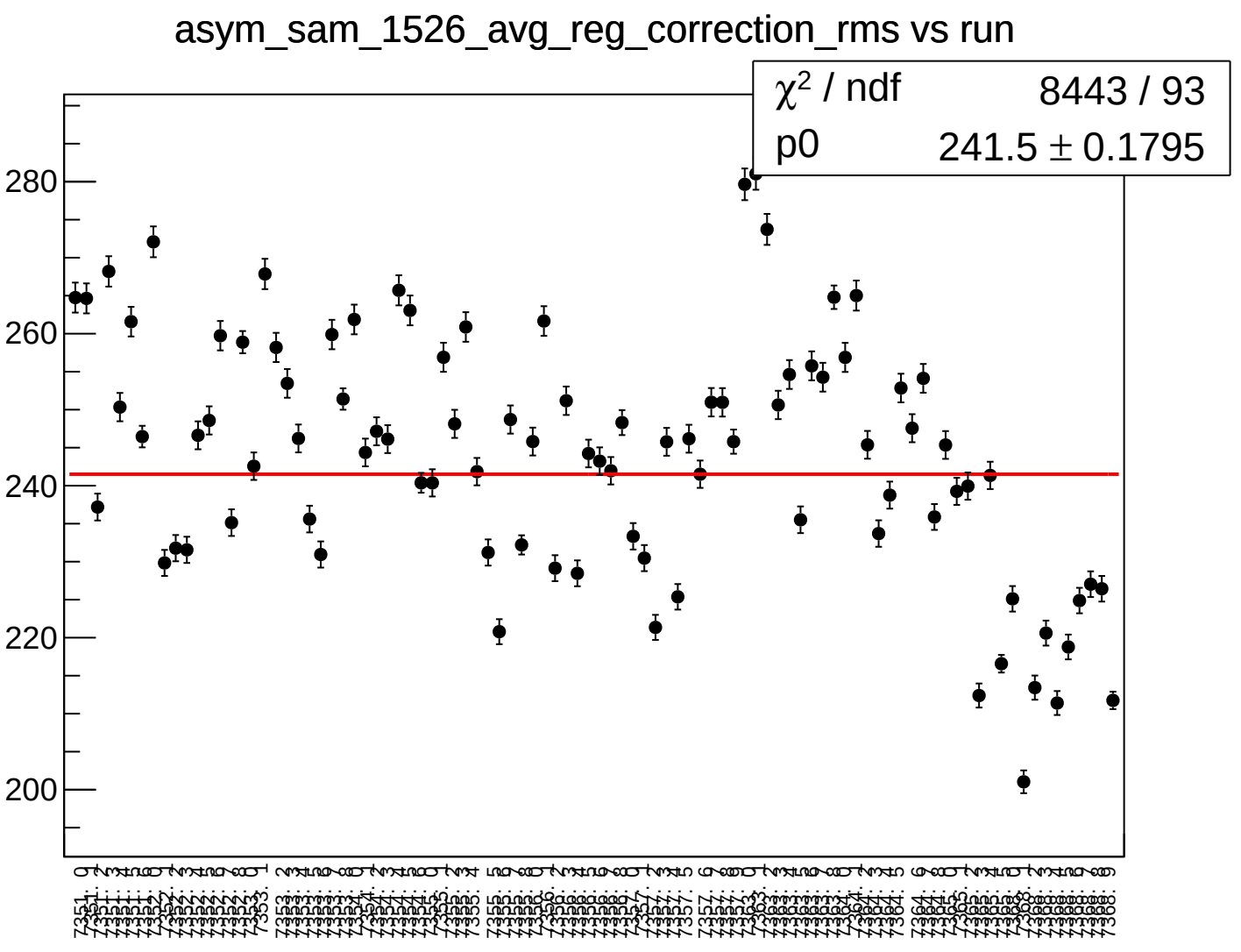

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 168.2 / 93
p0 −110 ± 53.18
2000
1000
0
−1000
−2000
pull
Entries 94
Mean 414.4
Std Dev 0
3
2
1
0
−1
−2
−3

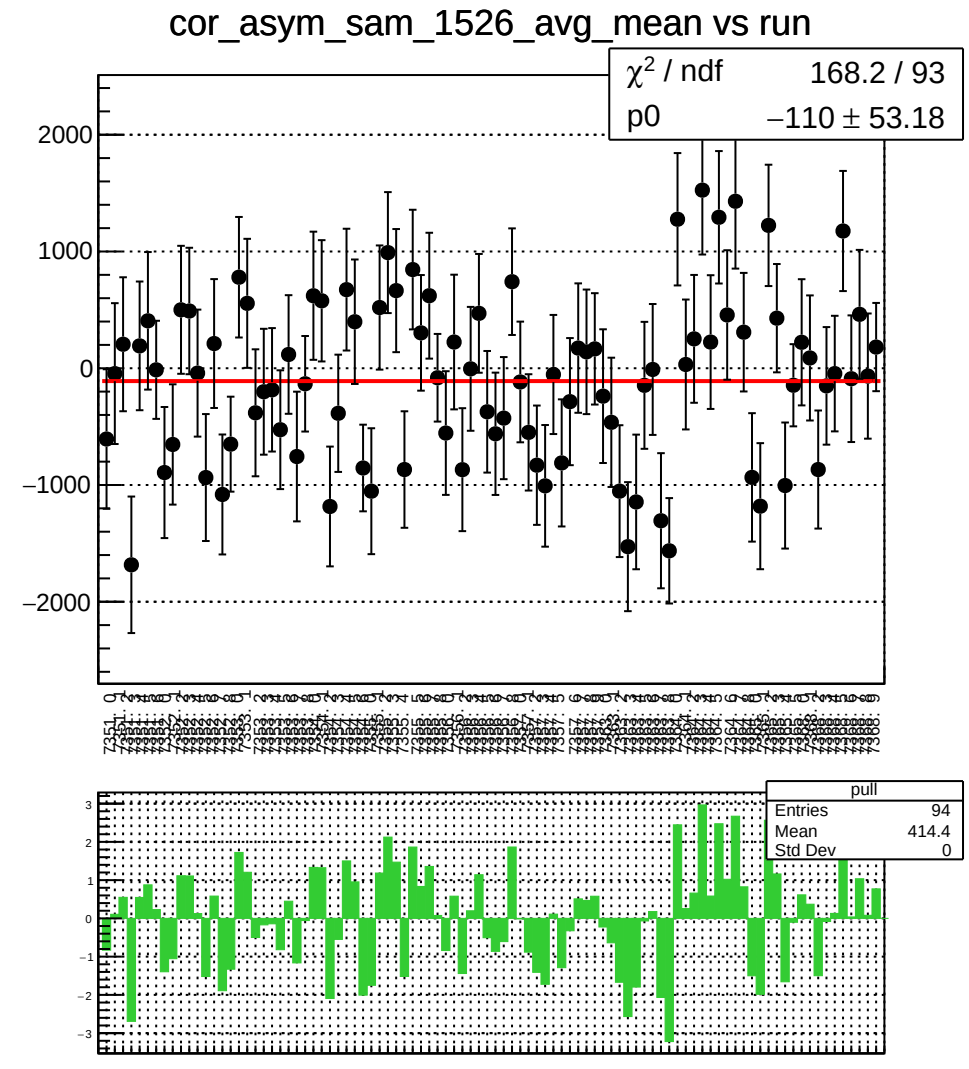

pull1D
Entries 94
Mean 0.01071
Std Dev 1.338
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

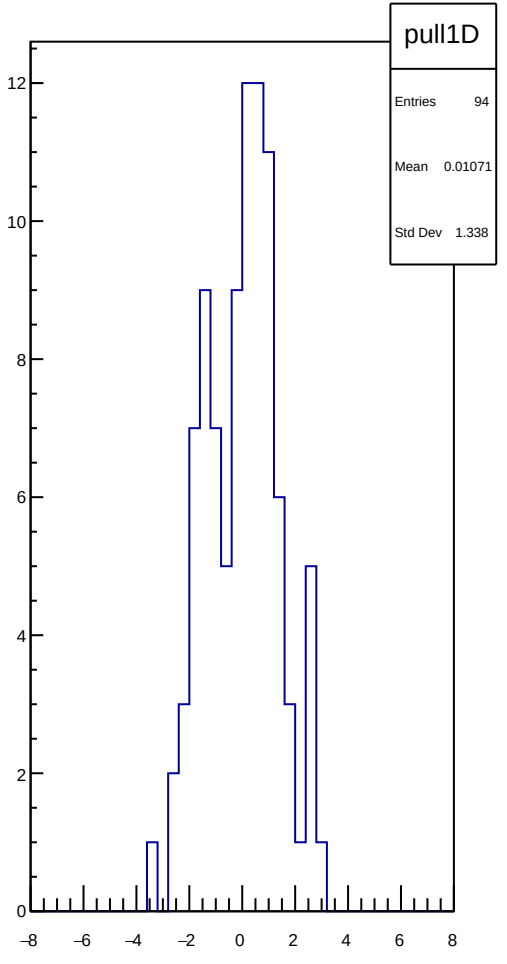

reg_asym_sam_1526_avg_rms vs run
χ² / ndf 4200 / 93
p0 50.66 ± 0.03761
58
56
54
52
50
48
46
44

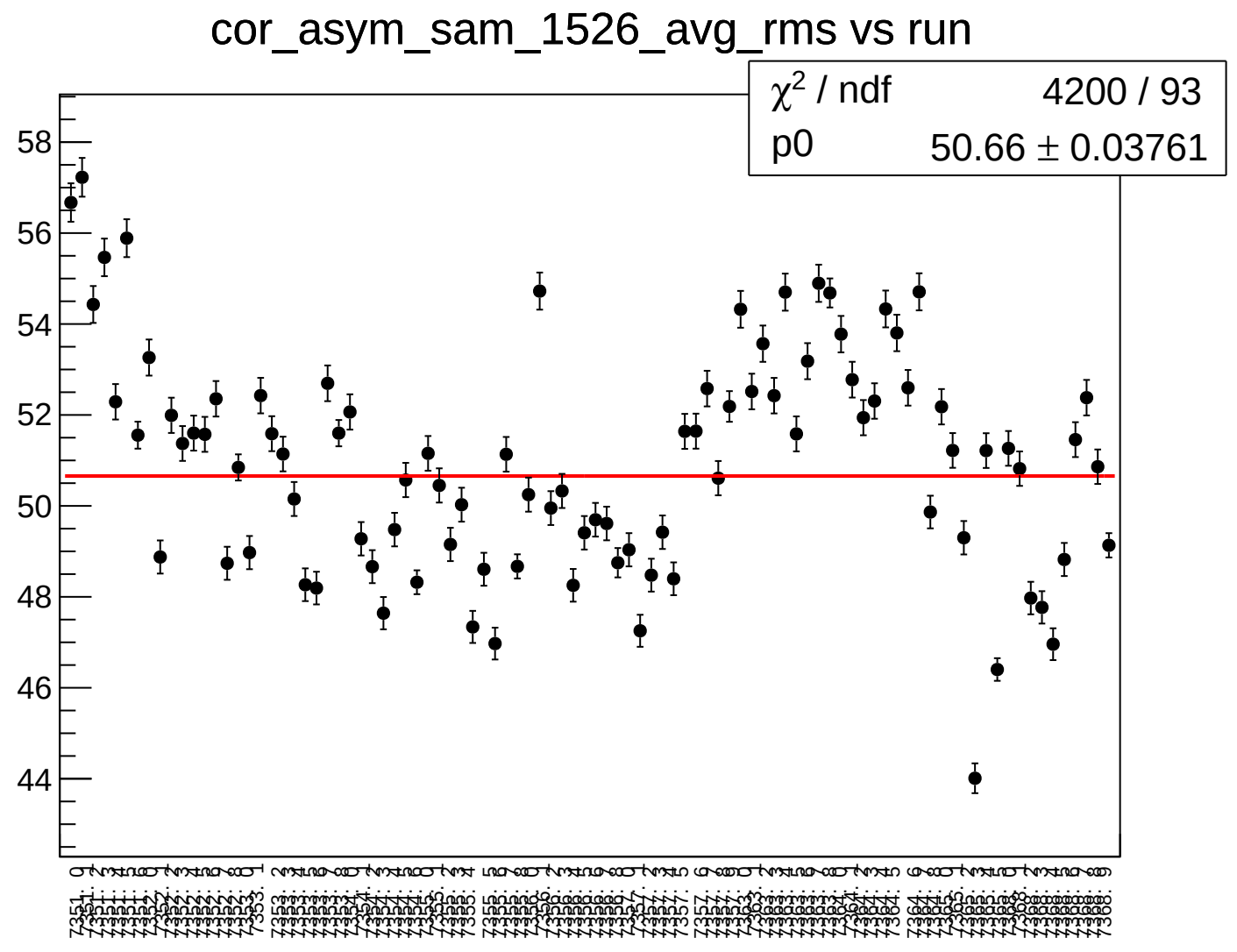

asym_sam_1526_avg_reg_correction_mean vs run
χ² / ndf 301.5 / 93
p0 239.6 ± 253.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean −348.2
Std Dev 0
4
2
0
−2
−4

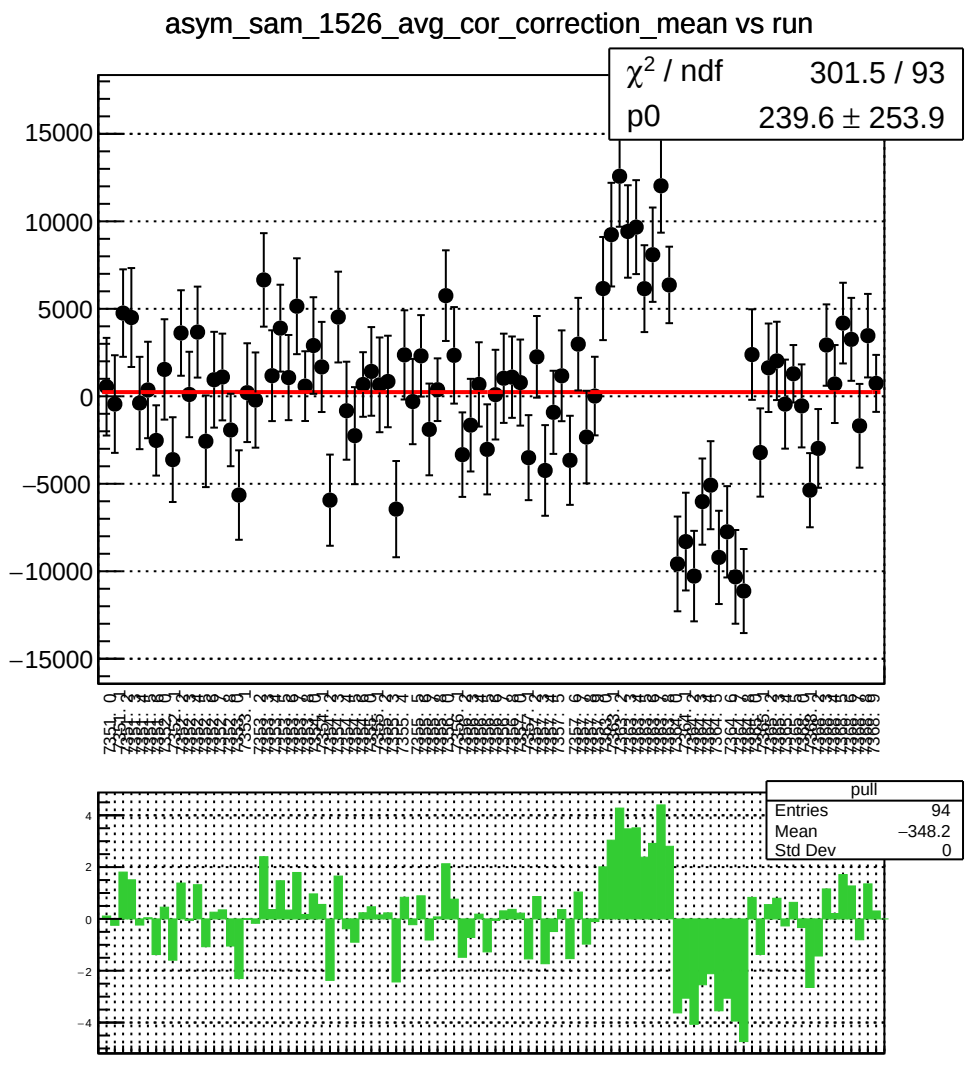

pull1D
Entries 94
Mean 0.0112
Std Dev 1.791
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

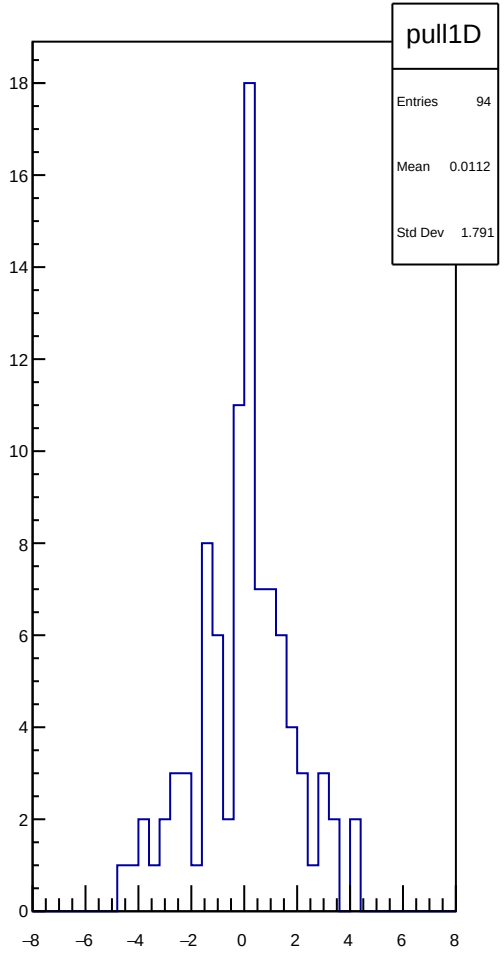

asym_sam_1526_avg_reg_correction_rms vs run
χ² / ndf 8443 / 93
p0 241.5 ± 0.1795
280
260
240
220
200

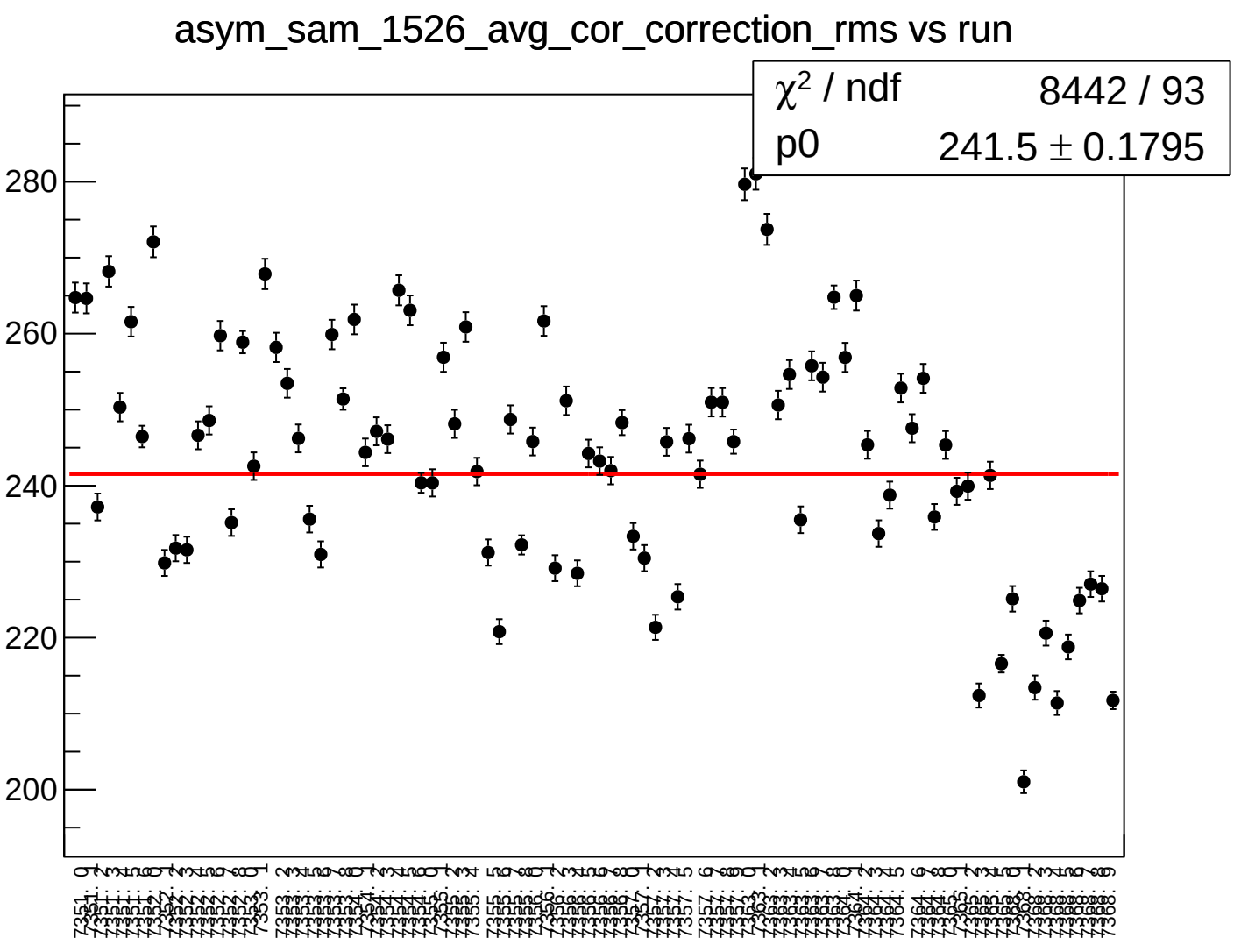

cor_asym_sam_1526_avg_mean vs run
χ² / ndf 168.2 / 93
p0 −110 ± 53.18
2000
1000
0
−1000
−2000
pull
Entries 94
Mean 414.4
Std Dev 0
3
2
1
0
−1
−2
−3

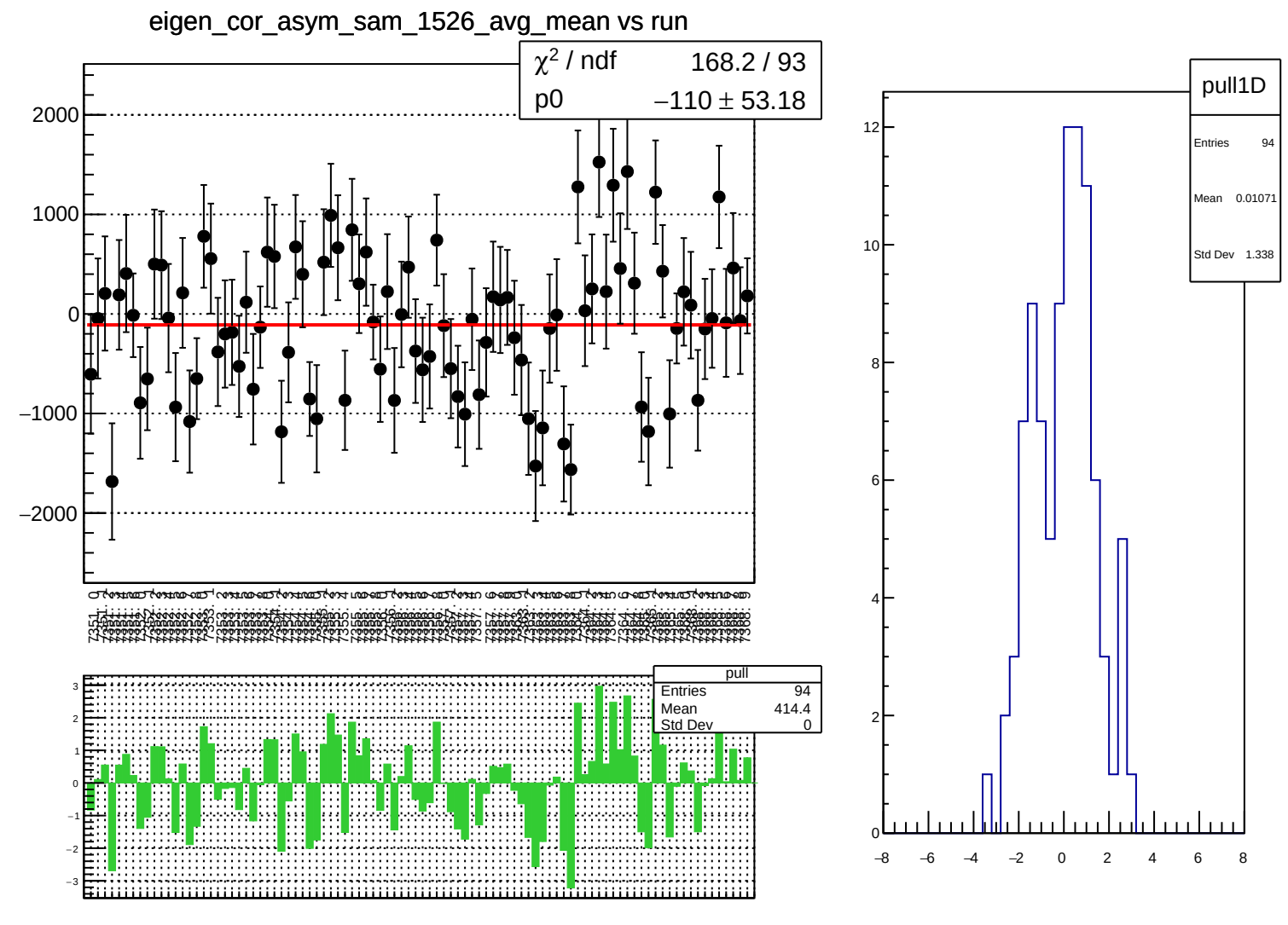

pull1D
Entries 94
Mean 0.01071
Std Dev 1.338
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

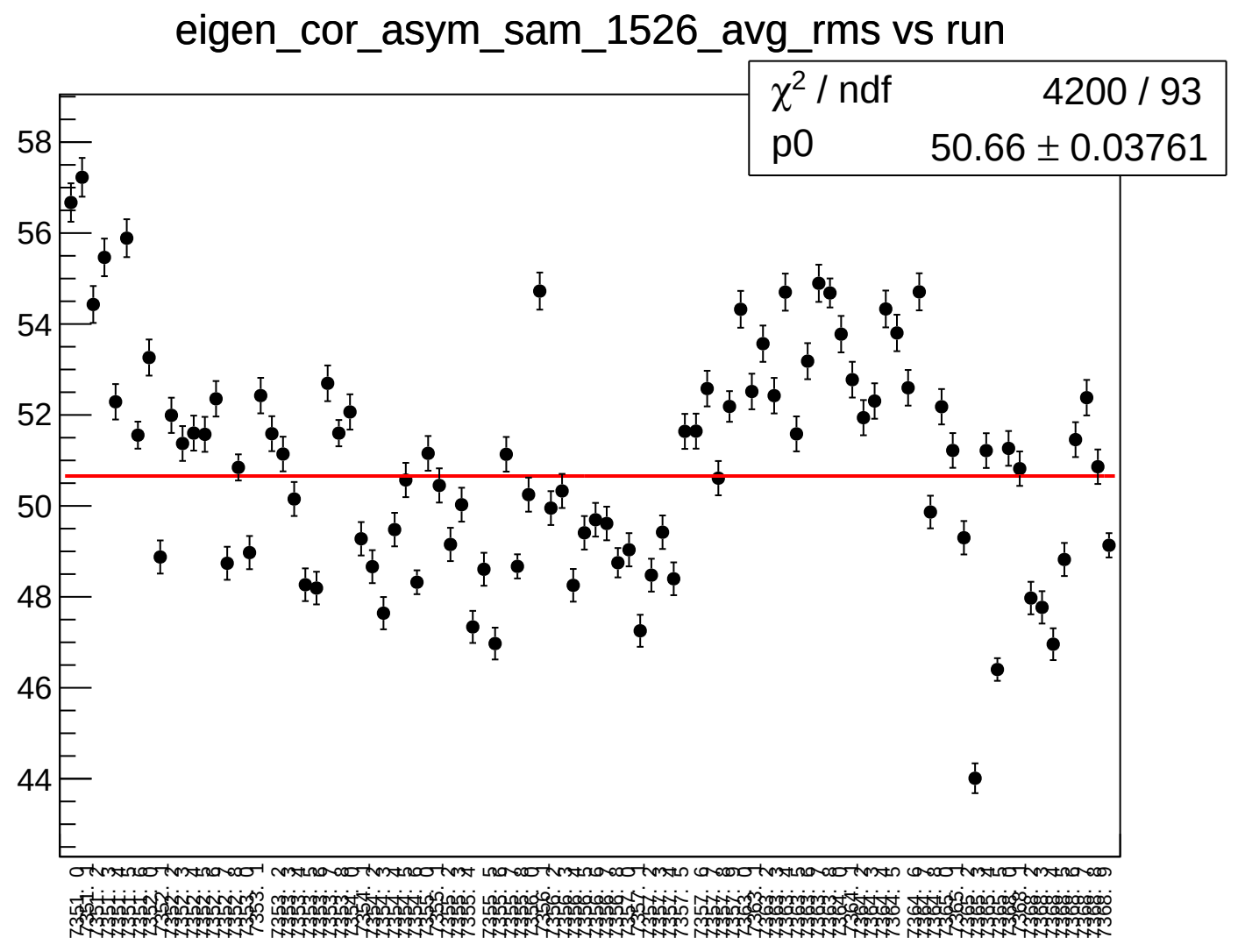

cor_asym_sam_1526_avg_rms vs run
χ² / ndf 4200 / 93
p0 50.66 ± 0.03761
58
56
54
52
50
48
46
44

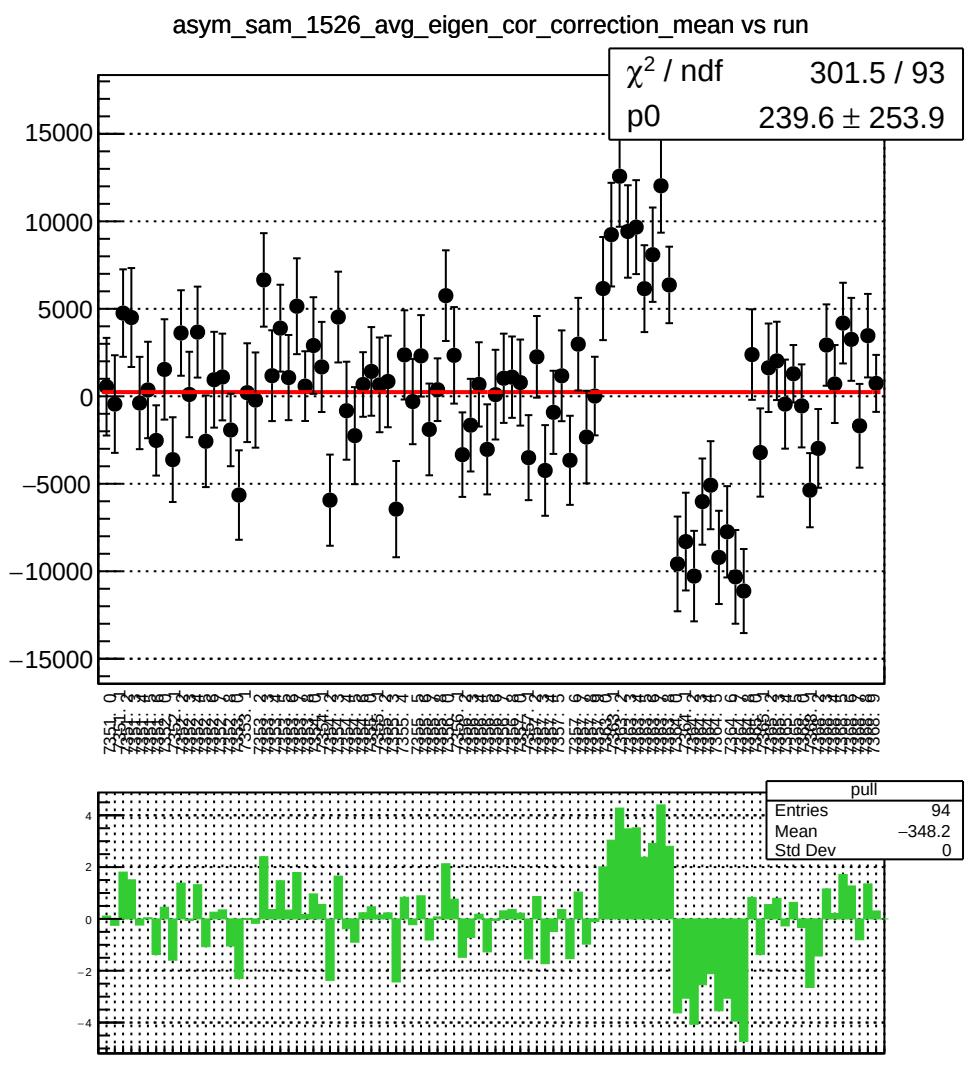

asym_sam_1526_avg_cor_correction_mean vs run
χ² / ndf 301.5 / 93
p0 239.6 ± 253.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean −348.2
Std Dev 0
4
2
0
−2
−4

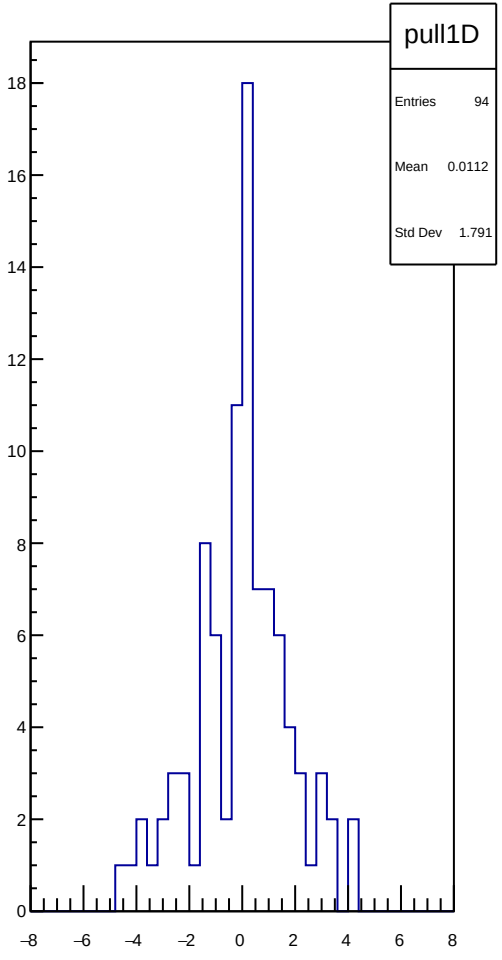

pull1D
Entries 94
Mean 0.0112
Std Dev 1.791
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

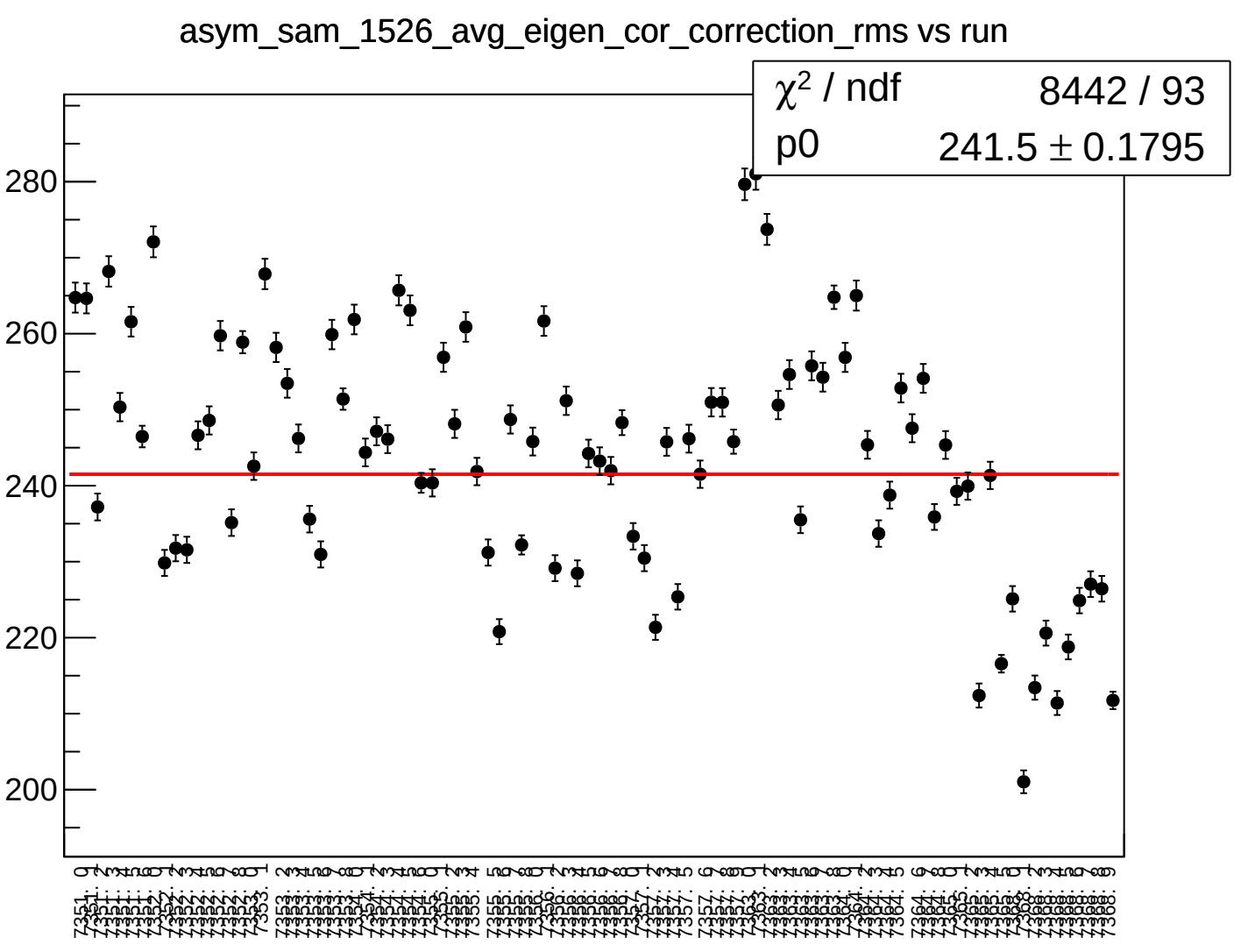

asym_sam_1526_avg_cor_correction_rms vs run
χ² / ndf 8442 / 93
p0 241.5 ± 0.1795
280
260
240
220
200

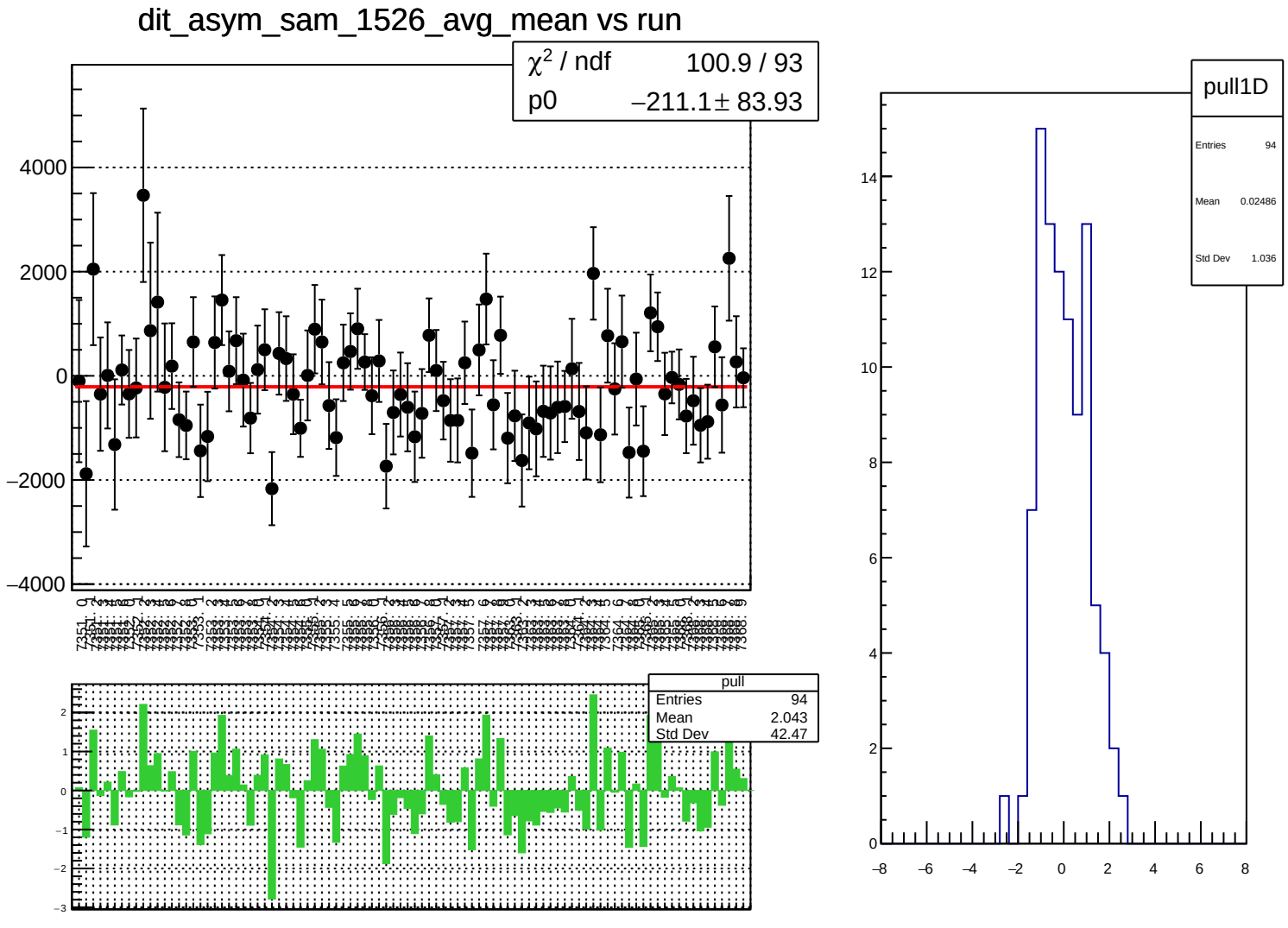

eigen_cor_asym_sam_1526_avg_mean vs run
χ² / ndf 168.2 / 93
p0 −110 ± 53.18
2000
1000
0
−1000
−2000
pull
Entries 94
Mean 414.4
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.01071
Std Dev 1.338
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

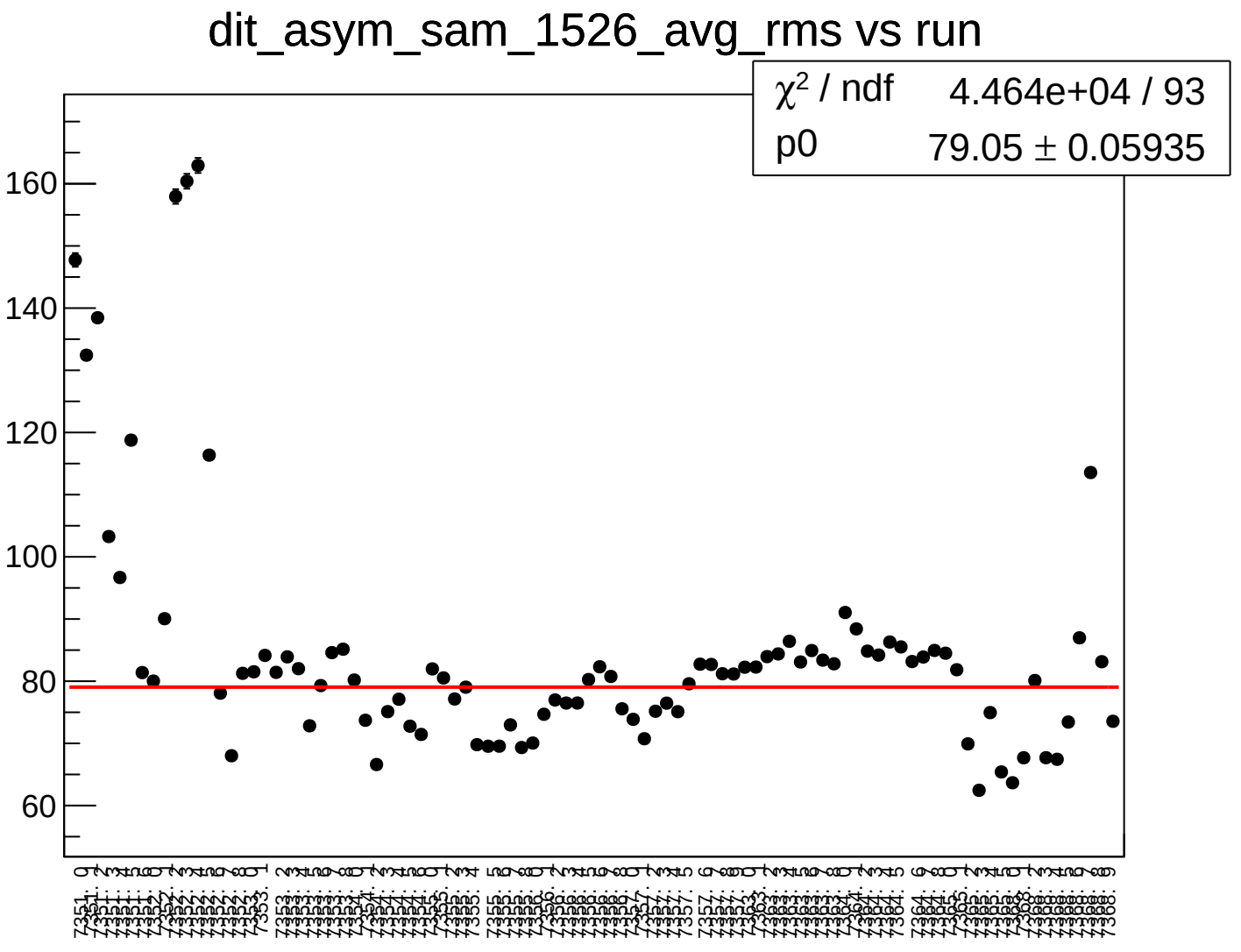

eigen_cor_asym_sam_1526_avg_rms vs run
χ² / ndf 4200 / 93
p0 50.66 ± 0.03761
58
56
54
52
50
48
46
44

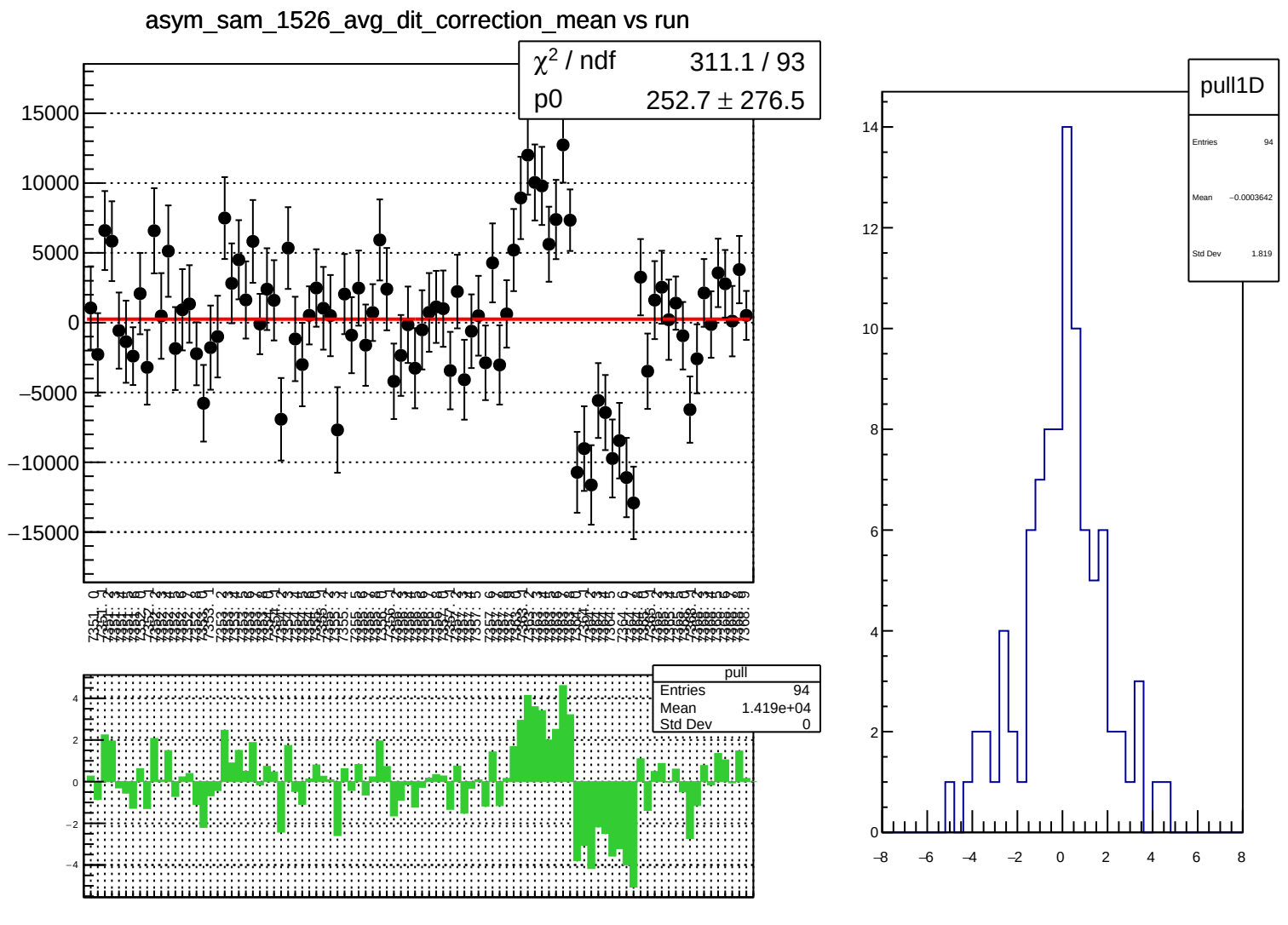

asym_sam_1526_avg_eigen_cor_correction_mean vs run
χ² / ndf 301.5 / 93
p0 239.6 ± 253.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean −348.2
Std Dev 0
4
2
0
−2
−4

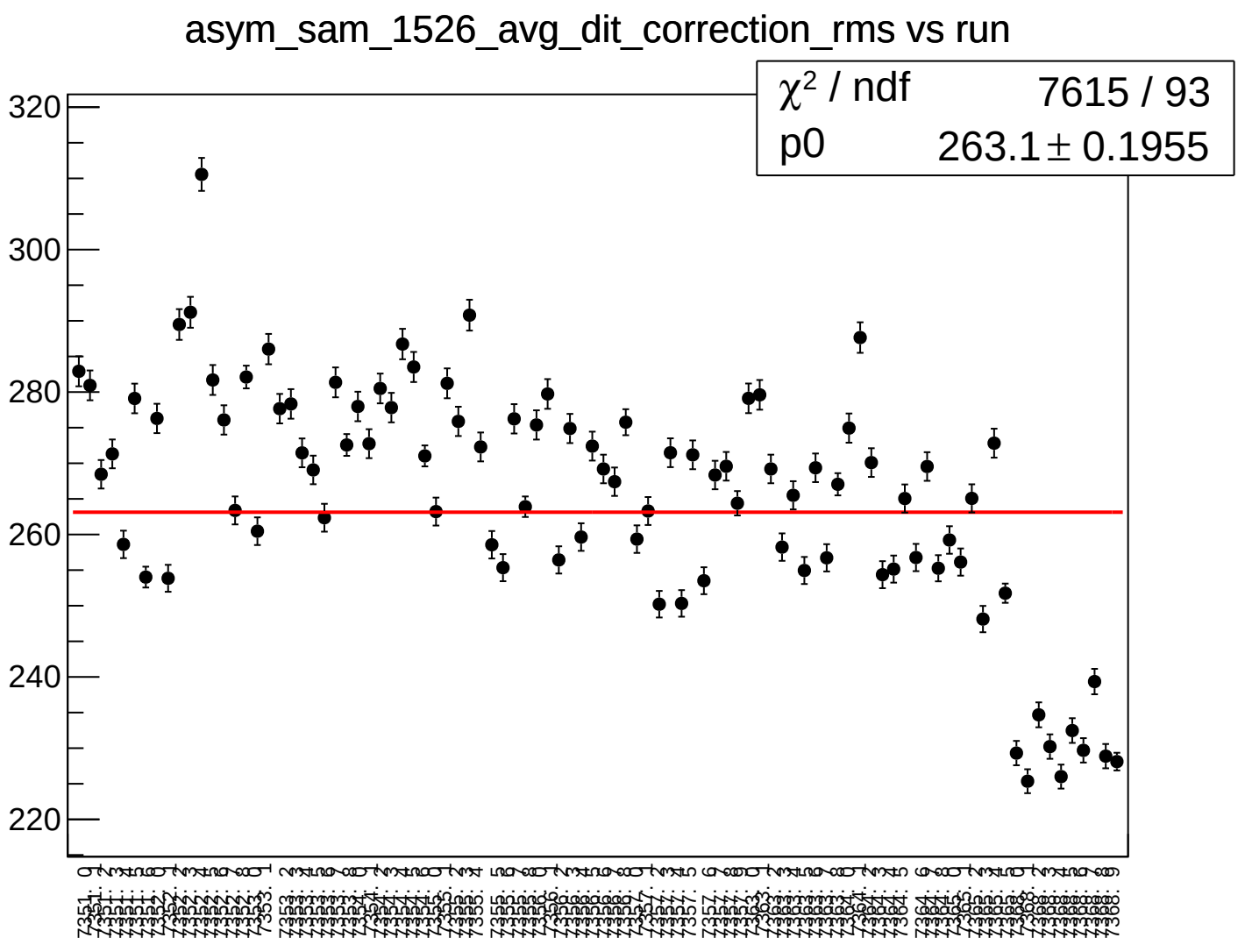

pull1D
Entries 94
Mean 0.0112
Std Dev 1.791
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

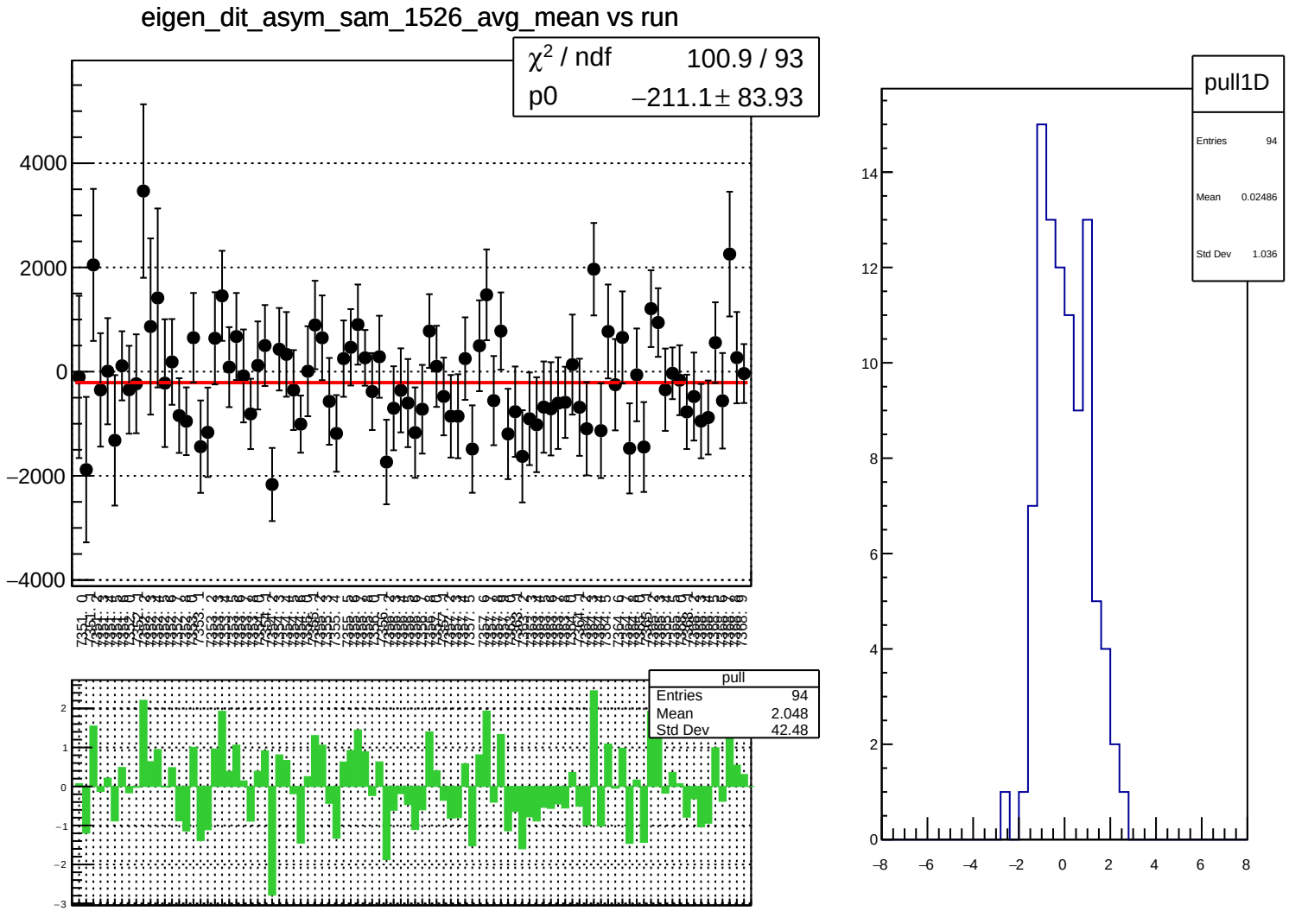

asym_sam_1526_avg_eigen_cor_correction_rms vs run
χ² / ndf 8442 / 93
p0 241.5 ± 0.1795
280
260
240
220
200

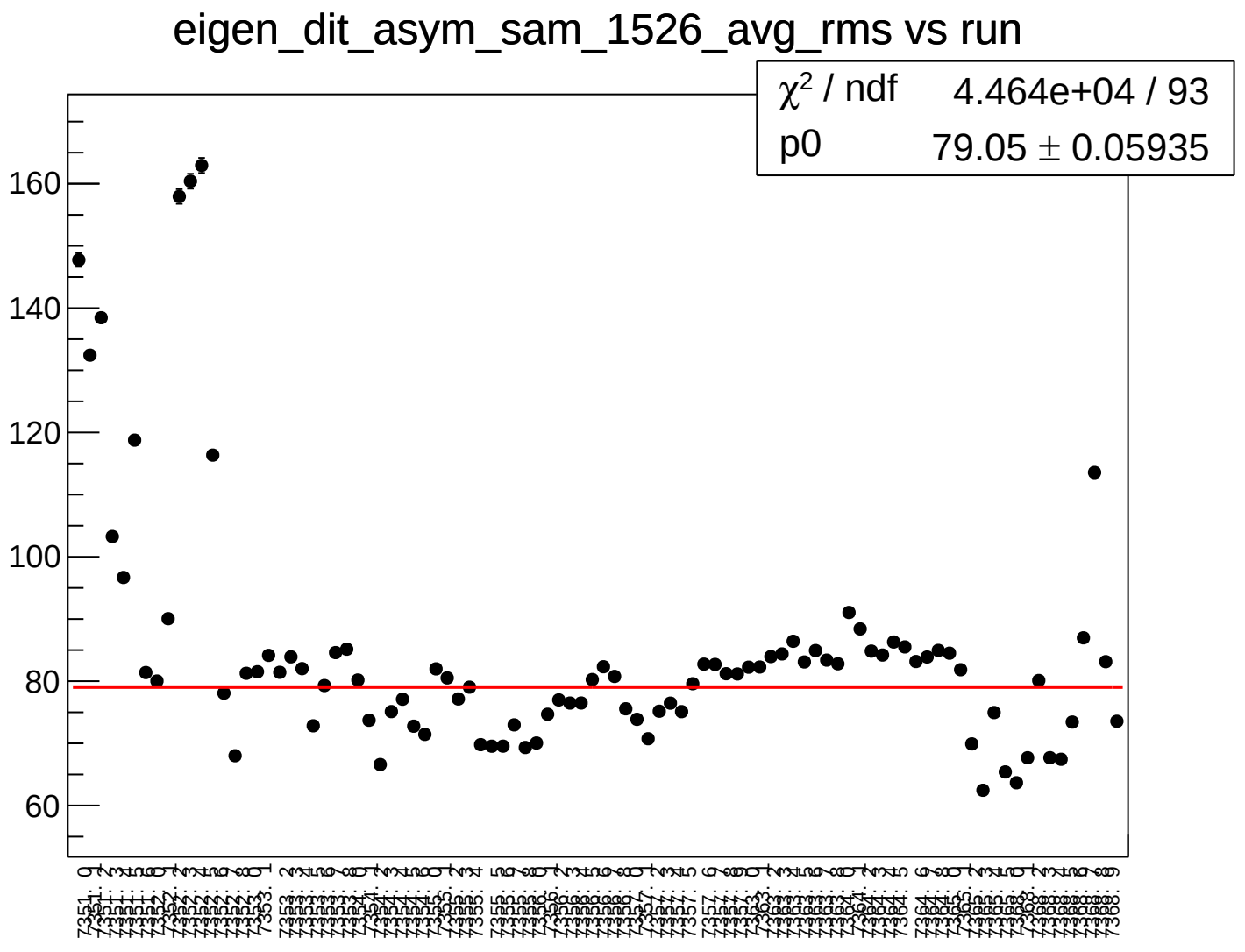

dit_asym_sam_1526_avg_mean vs run
χ² / ndf 100.9 / 93
p0 −211.1± 83.93
4000
2000
0
−2000
−4000
pull
Entries 94
Mean 2.043
Std Dev 42.47
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.02486
Std Dev 1.036
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

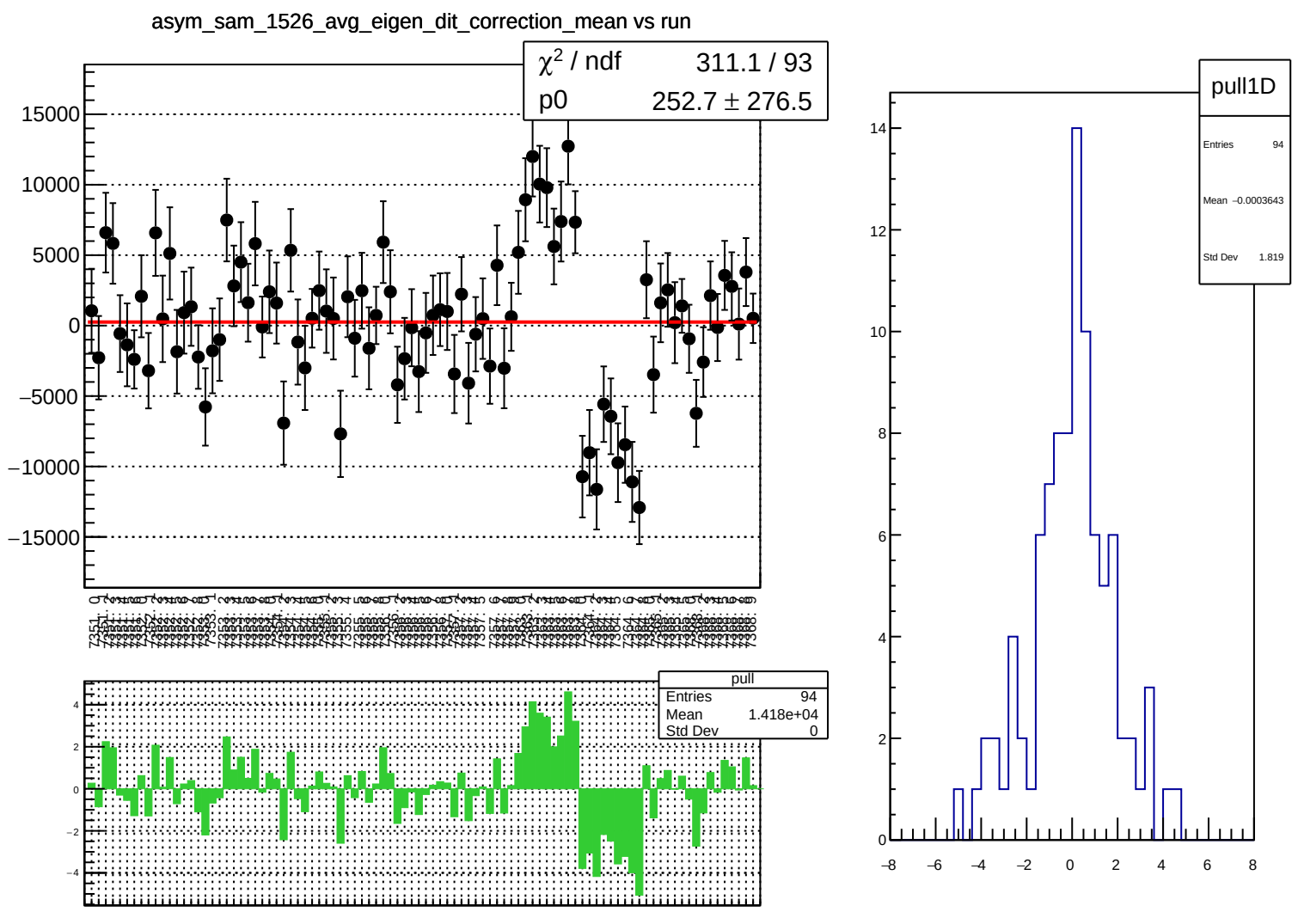

dit_asym_sam_1526_avg_rms vs run
χ² / ndf 4.464e+04 / 93
p0 79.05 ± 0.05935
160
140
120
100
80
60

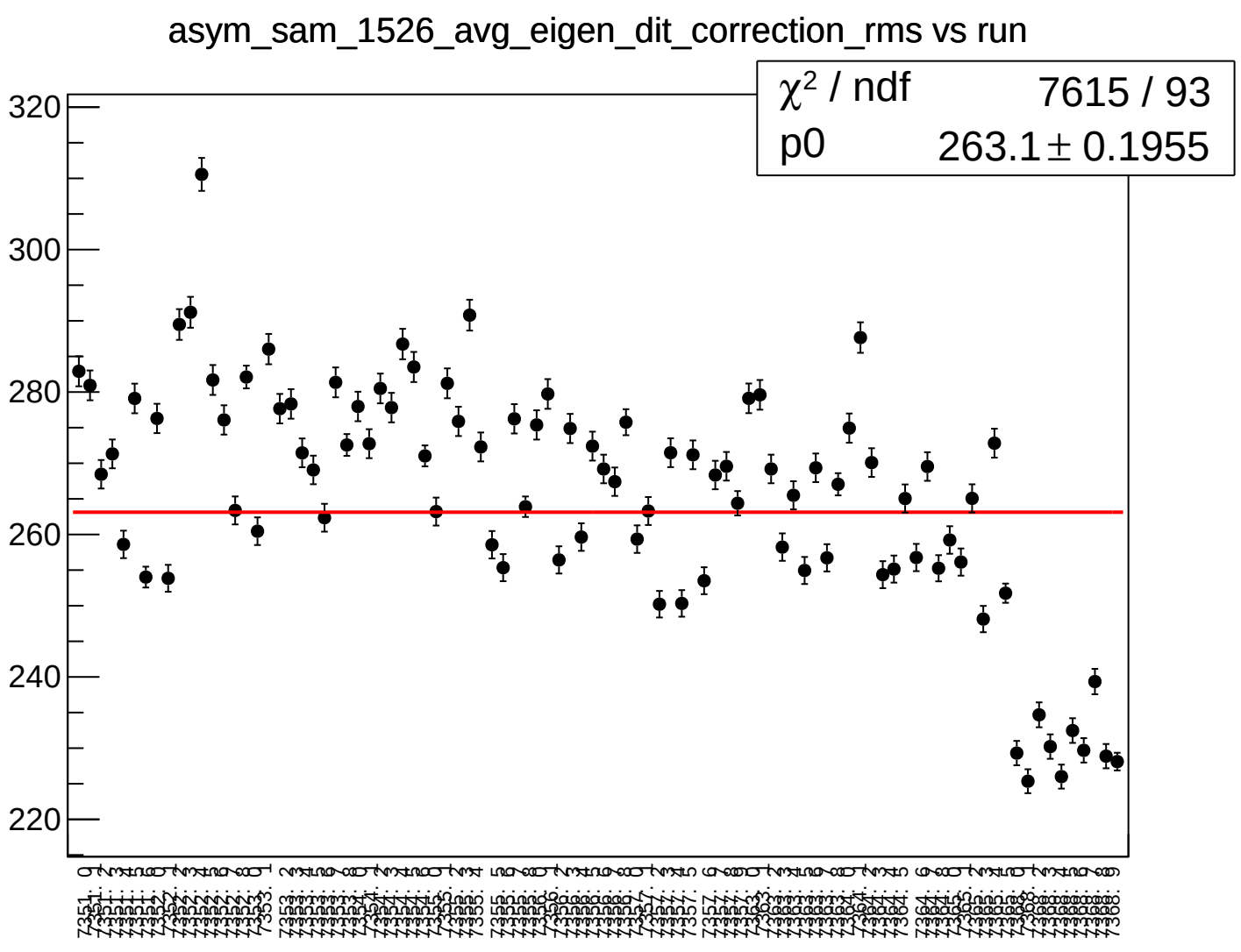

asym_sam_1526_avg_dit_correction_mean vs run
χ² / ndf 311.1 / 93
p0 252.7 ± 276.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean 1.419e+04
Std Dev 0
4
2
0
−2
−4
pull1D
Entries 94
Mean −0.0003642
Std Dev 1.819
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

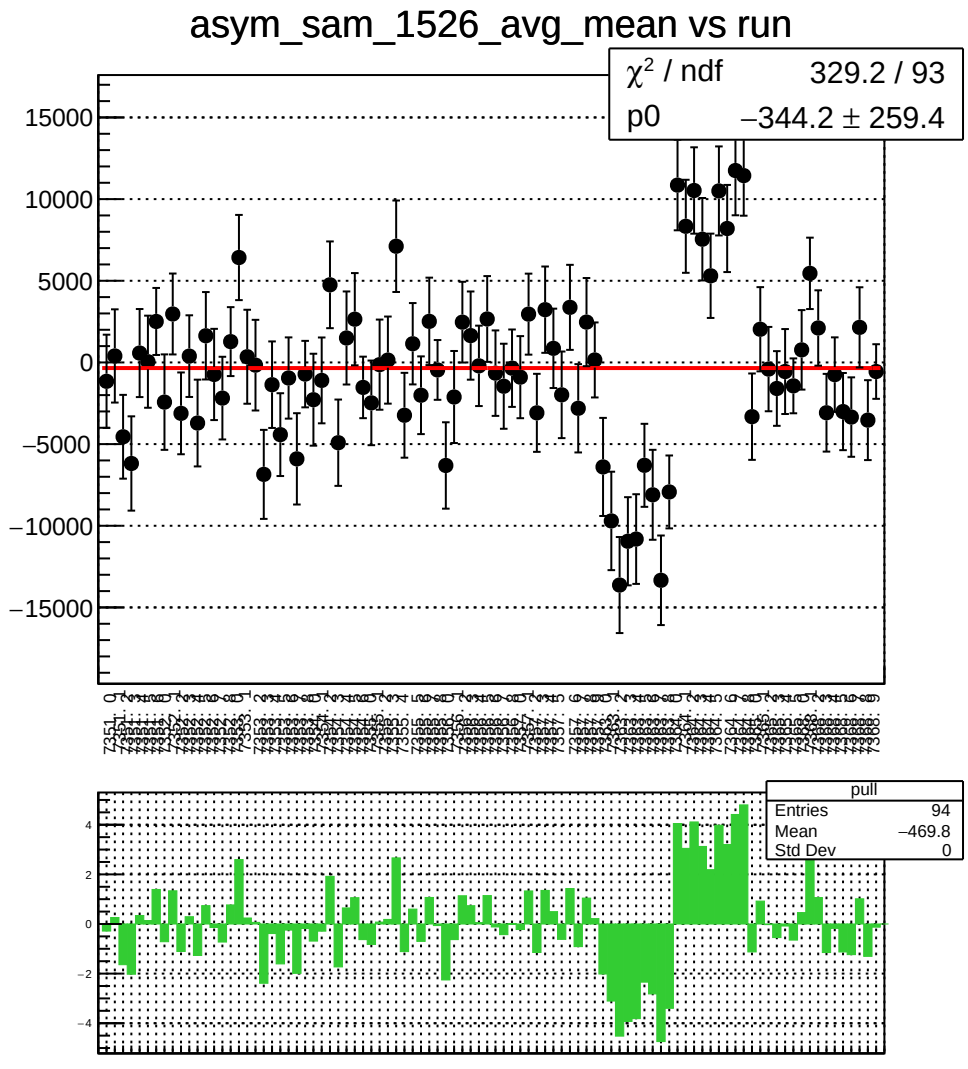

asym_sam_1526_avg_dit_correction_rms vs run
χ² / ndf 7615 / 93
p0 263.1 ± 0.1955
320
300
280
260
240
220

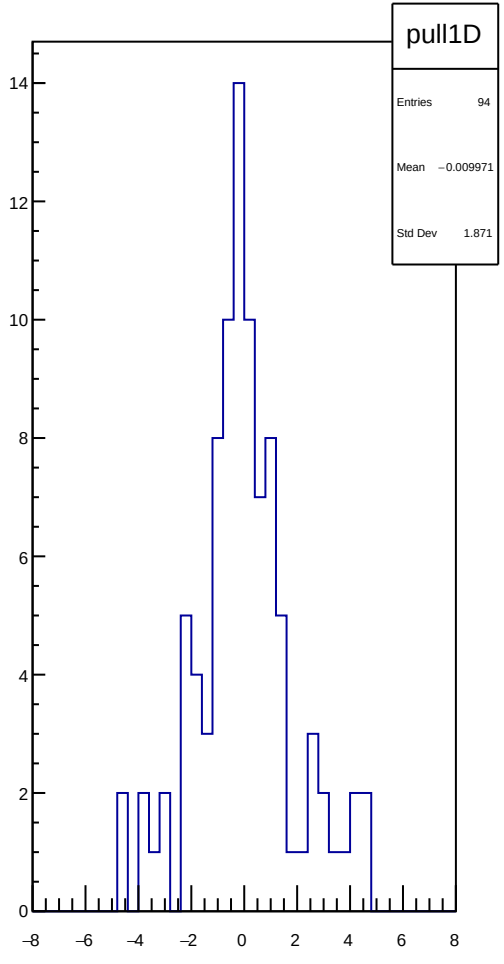

eigen_dit_asym_sam_1526_avg_mean vs run
χ² / ndf 100.9 / 93
p0 −211.1 ± 83.93
4000
2000
0
−2000
−4000
pull
Entries 94
Mean 2.048
Std Dev 42.48
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.02486
Std Dev 1.036
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

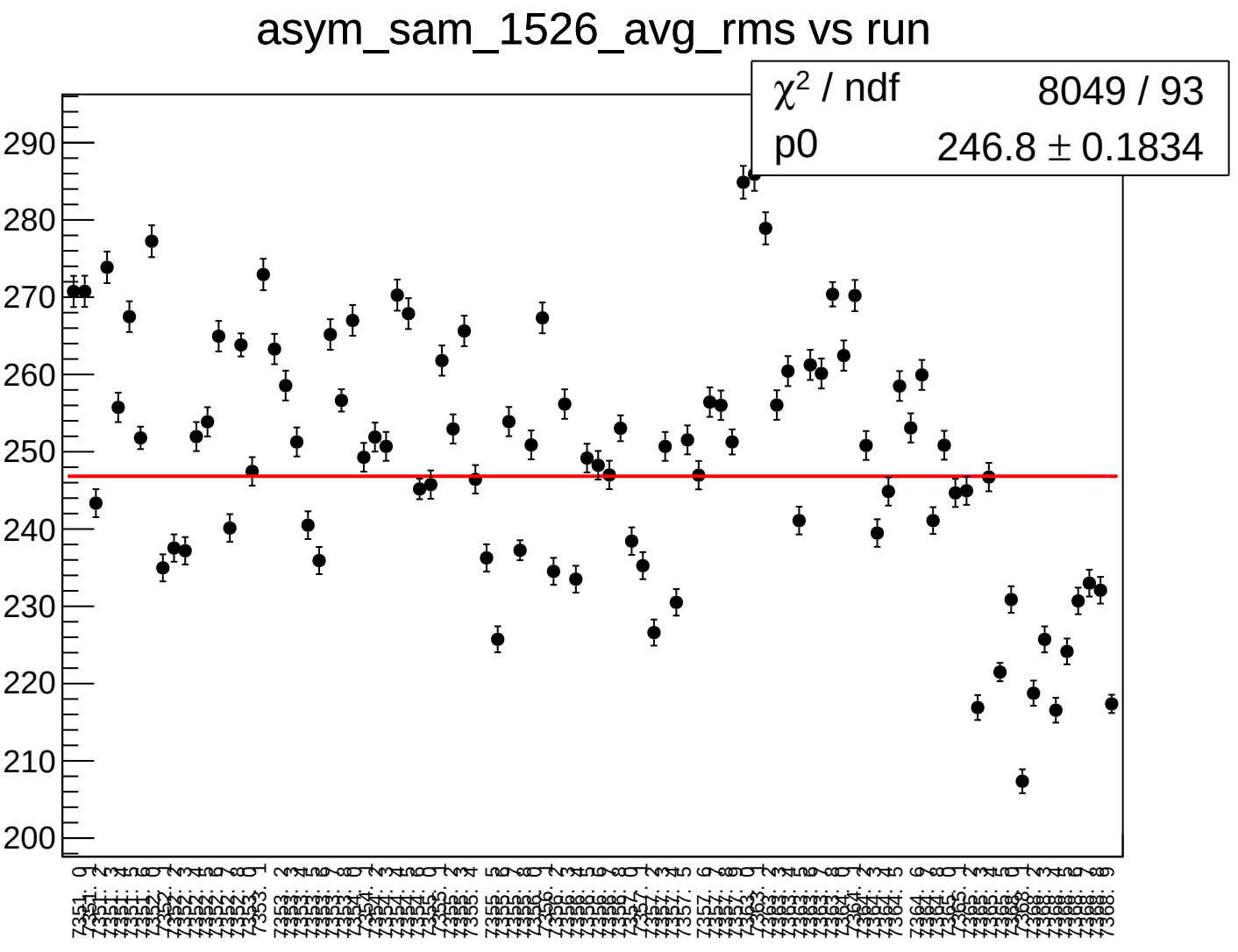

eigen_dit_asym_sam_1526_avg_rms vs run
χ² / ndf 4.464e+04 / 93
p0 79.05 ± 0.05935
160
140
120
100
80
60

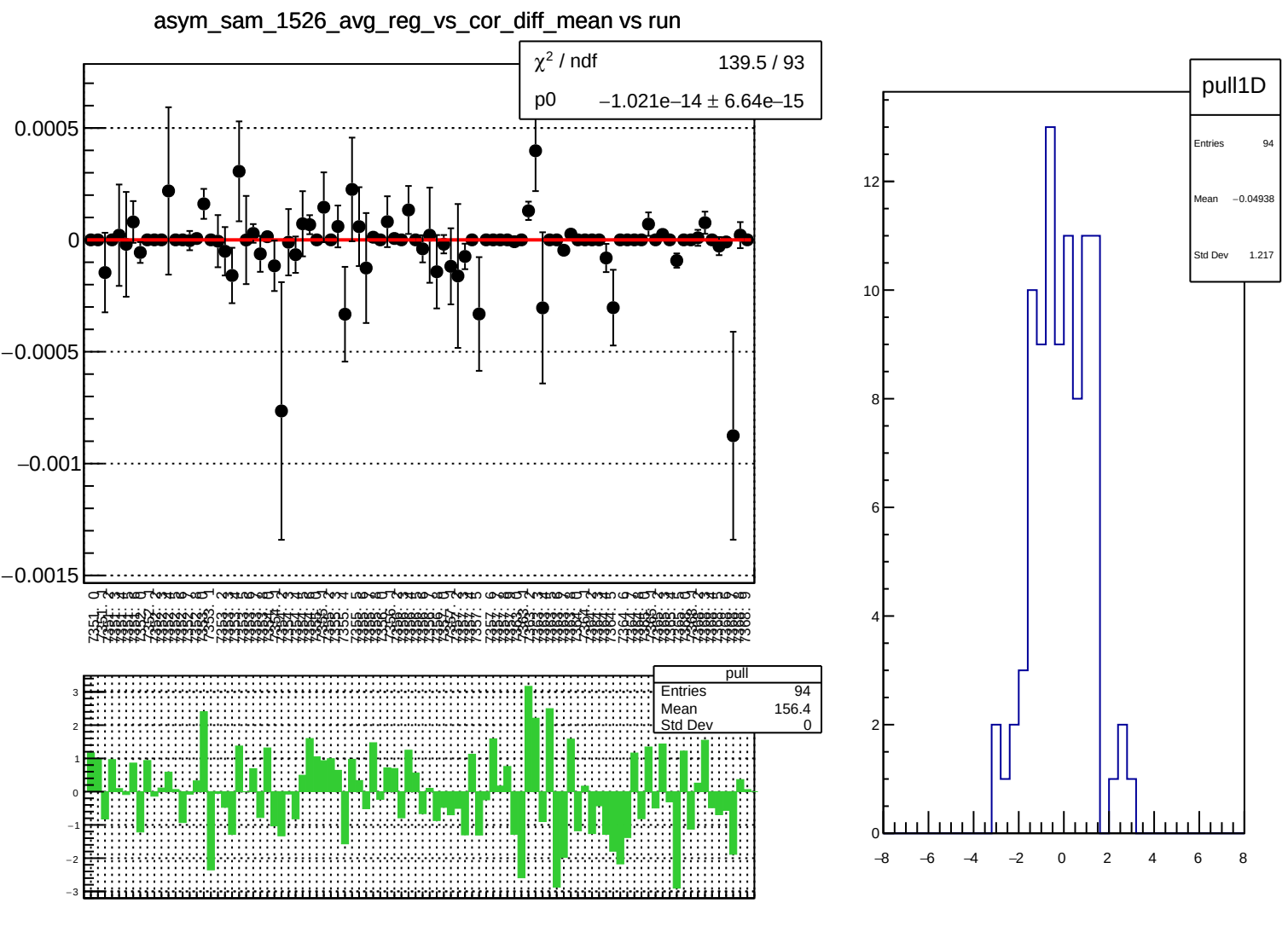

asym_sam_1526_avg_eigen_dit_correction_mean vs run
χ² / ndf 311.1 / 93
p0 252.7 ± 276.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean 1.418e+04
Std Dev 0
4
2
0
−2
−4
pull1D
Entries 94
Mean −0.0003643
Std Dev 1.819
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

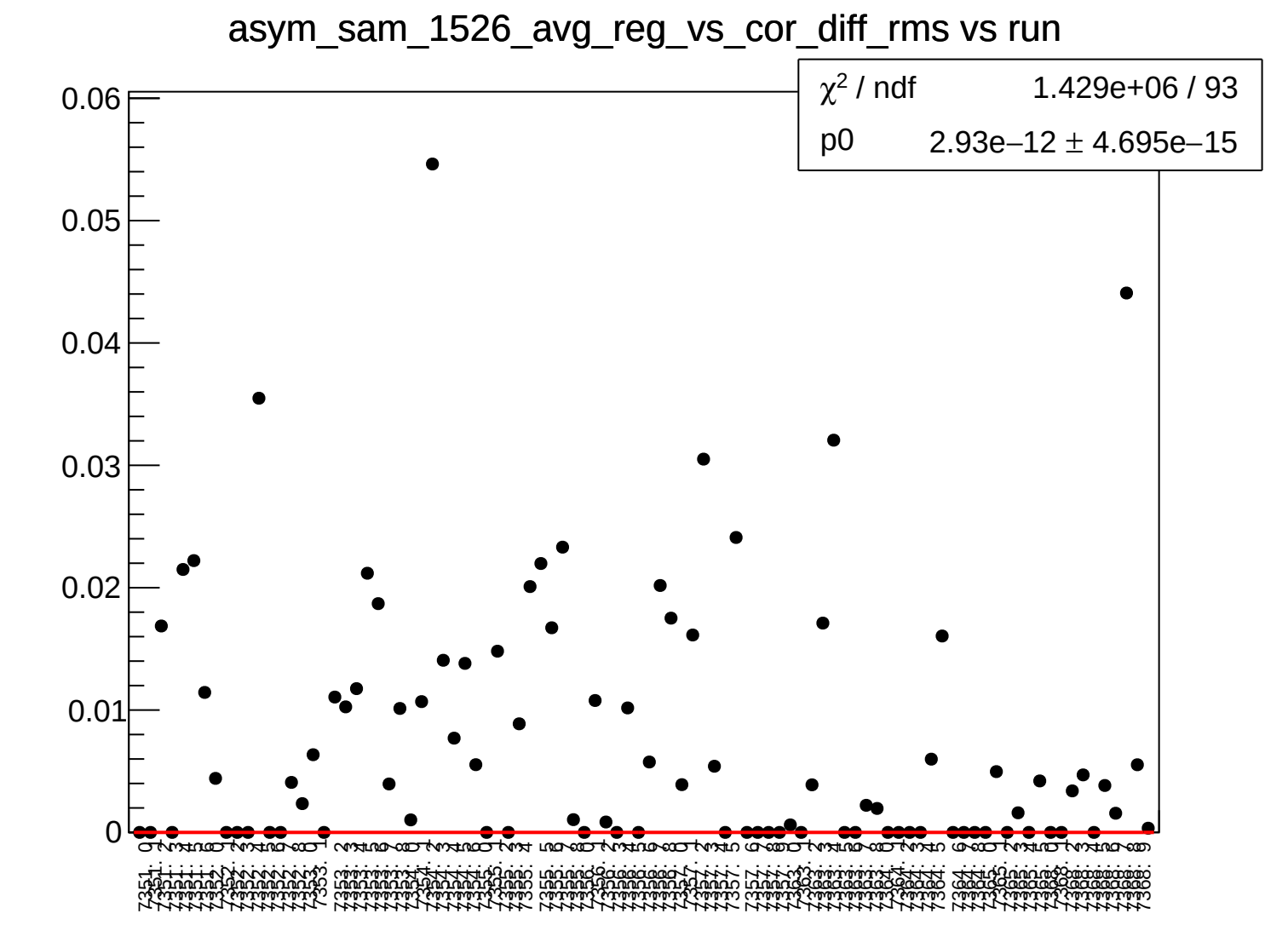

asym_sam_1526_avg_eigen_dit_correction_rms vs run
χ² / ndf 7615 / 93
p0 263.1 ± 0.1955
320
300
280
260
240
220

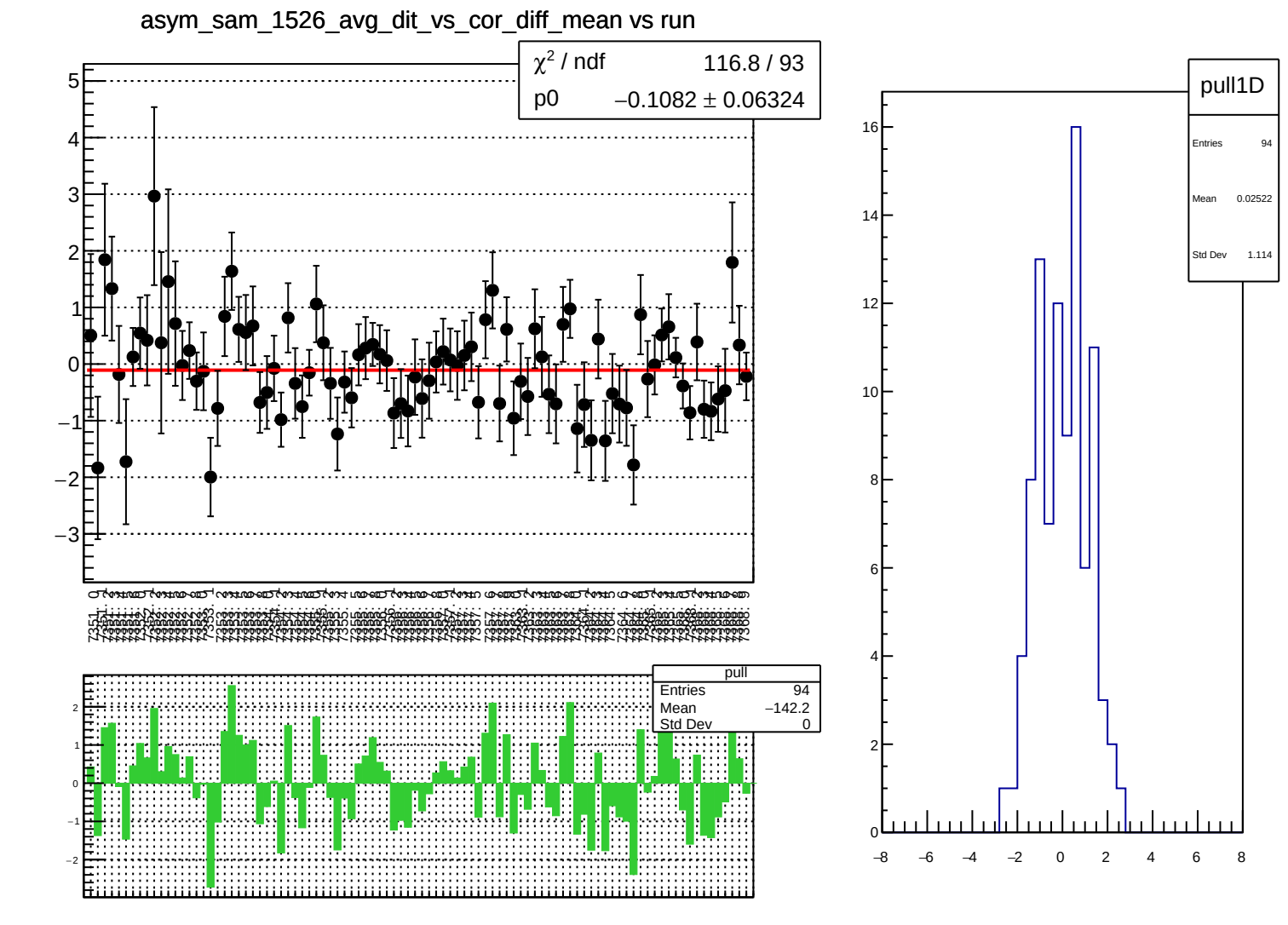

asym_sam_1526_avg_mean vs run
χ² / ndf 329.2 / 93
p0 −344.2 ± 259.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean −469.8
Std Dev 0
4
2
0
−2
−4

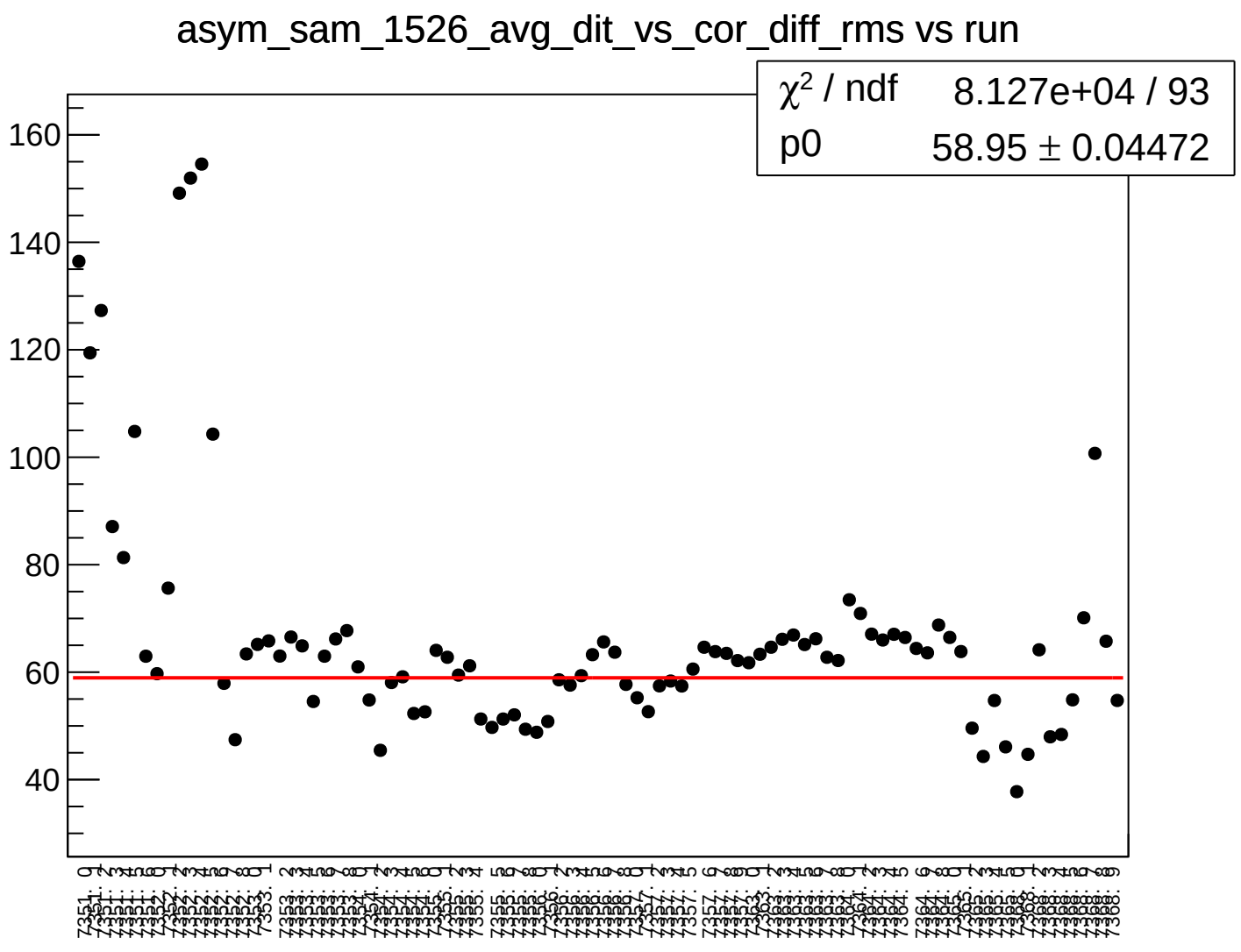

pull1D
Entries 94
Mean −0.009971
Std Dev 1.871
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

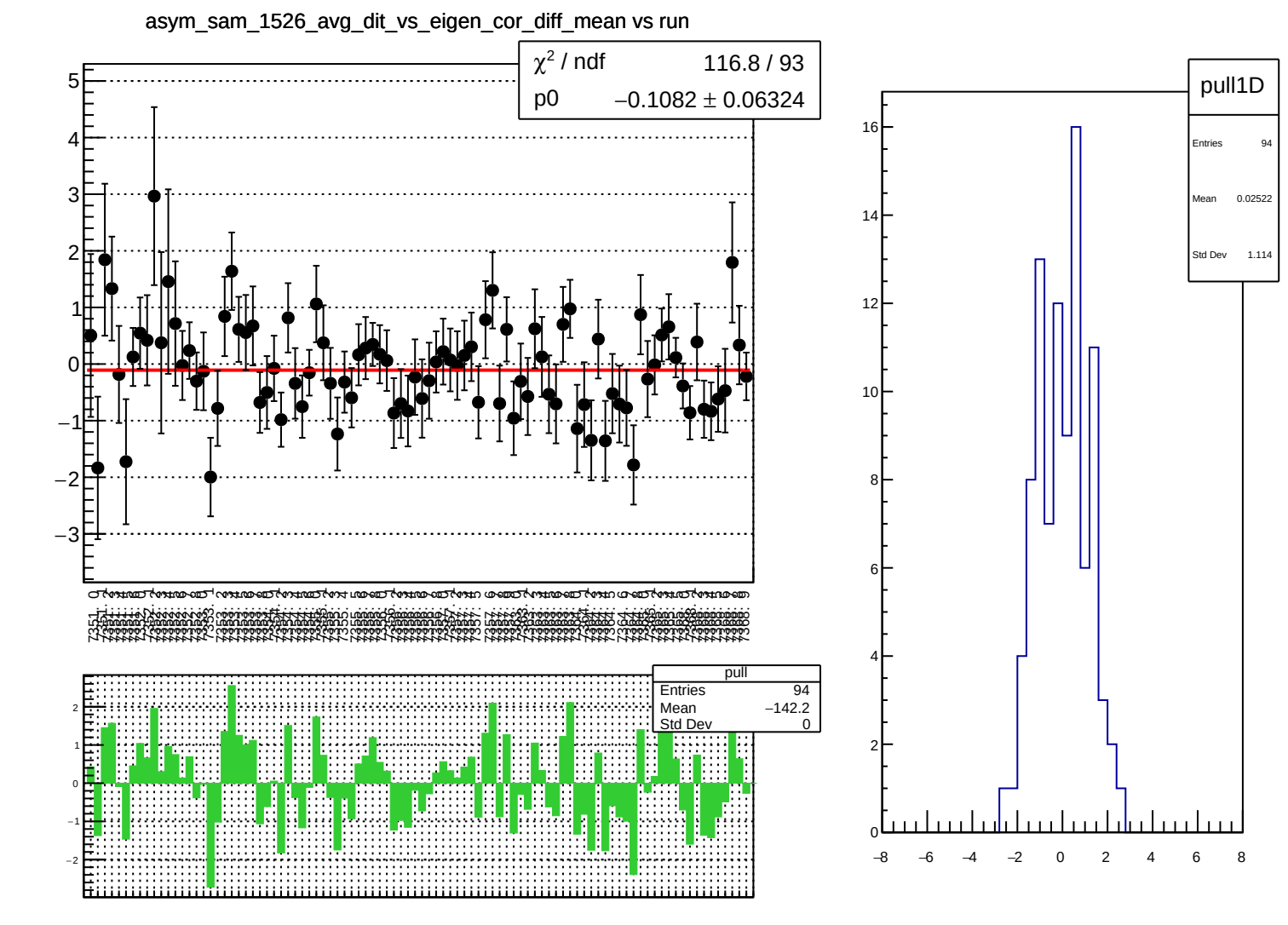

asym_sam_1526_avg_rms vs run
χ² / ndf 8049 / 93
p0 246.8 ± 0.1834
290
280
270
260
250
240
230
220
210
200

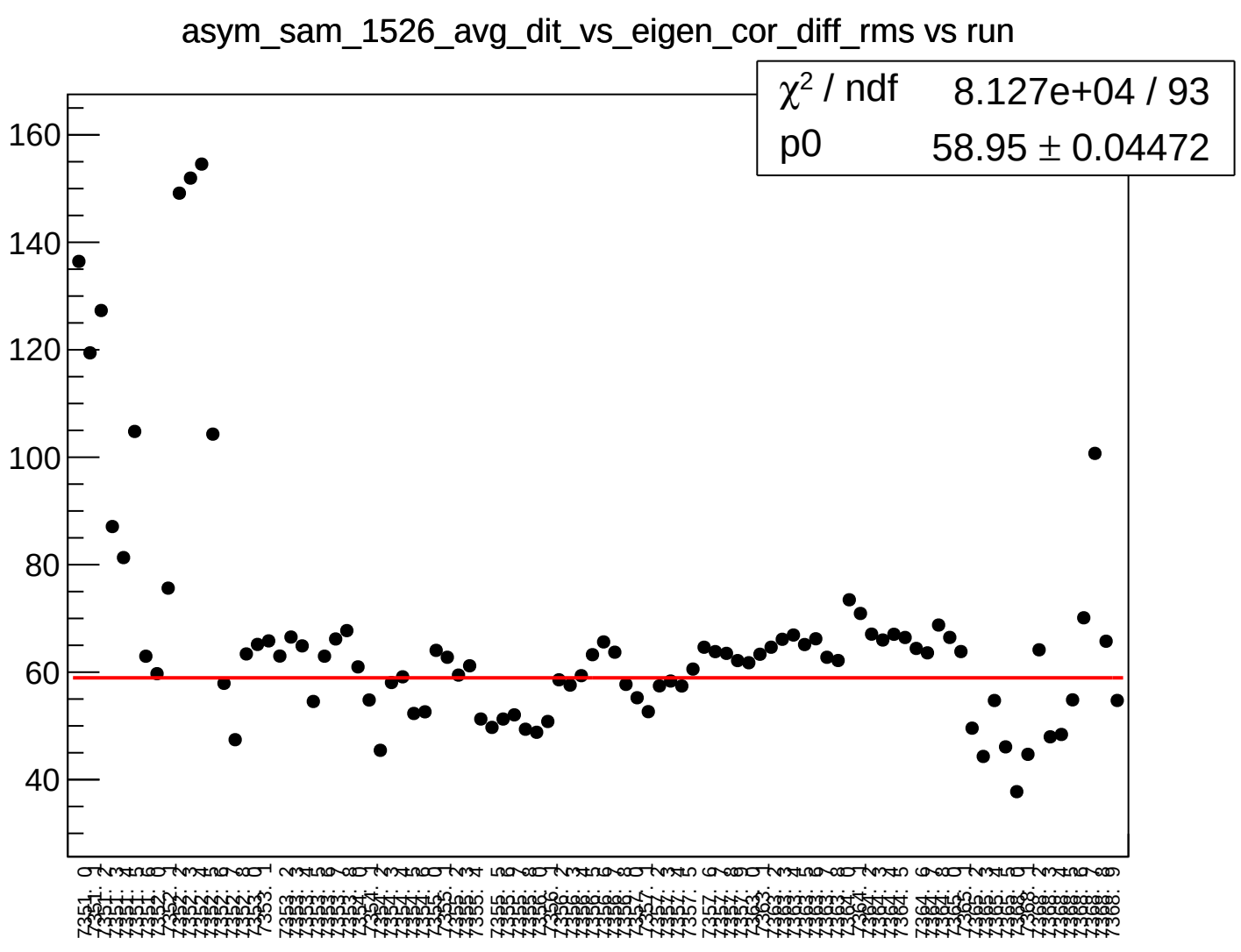

asym_sam_1526_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 139.5 / 93
p0 −1.021e−14 ± 6.64e−15
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 94
Mean 156.4
Std Dev 0
pull1D
Entries 94
Mean −0.04938
Std Dev 1.217

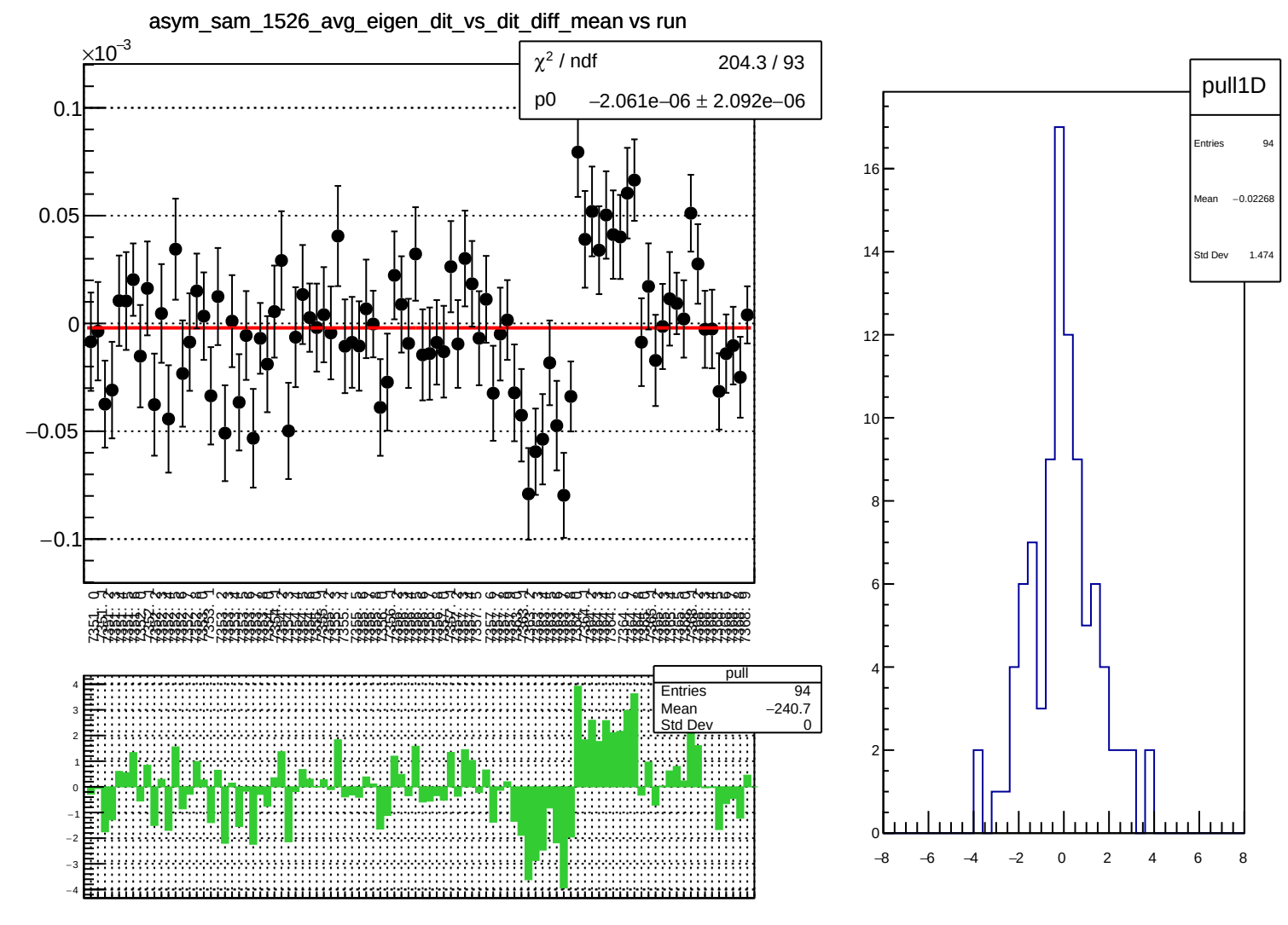

asym_sam_1526_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.429e+06 / 93
p0 2.93e−12 ± 4.695e−15
0.06
0.05
0.04
0.03
0.02
0.01
0

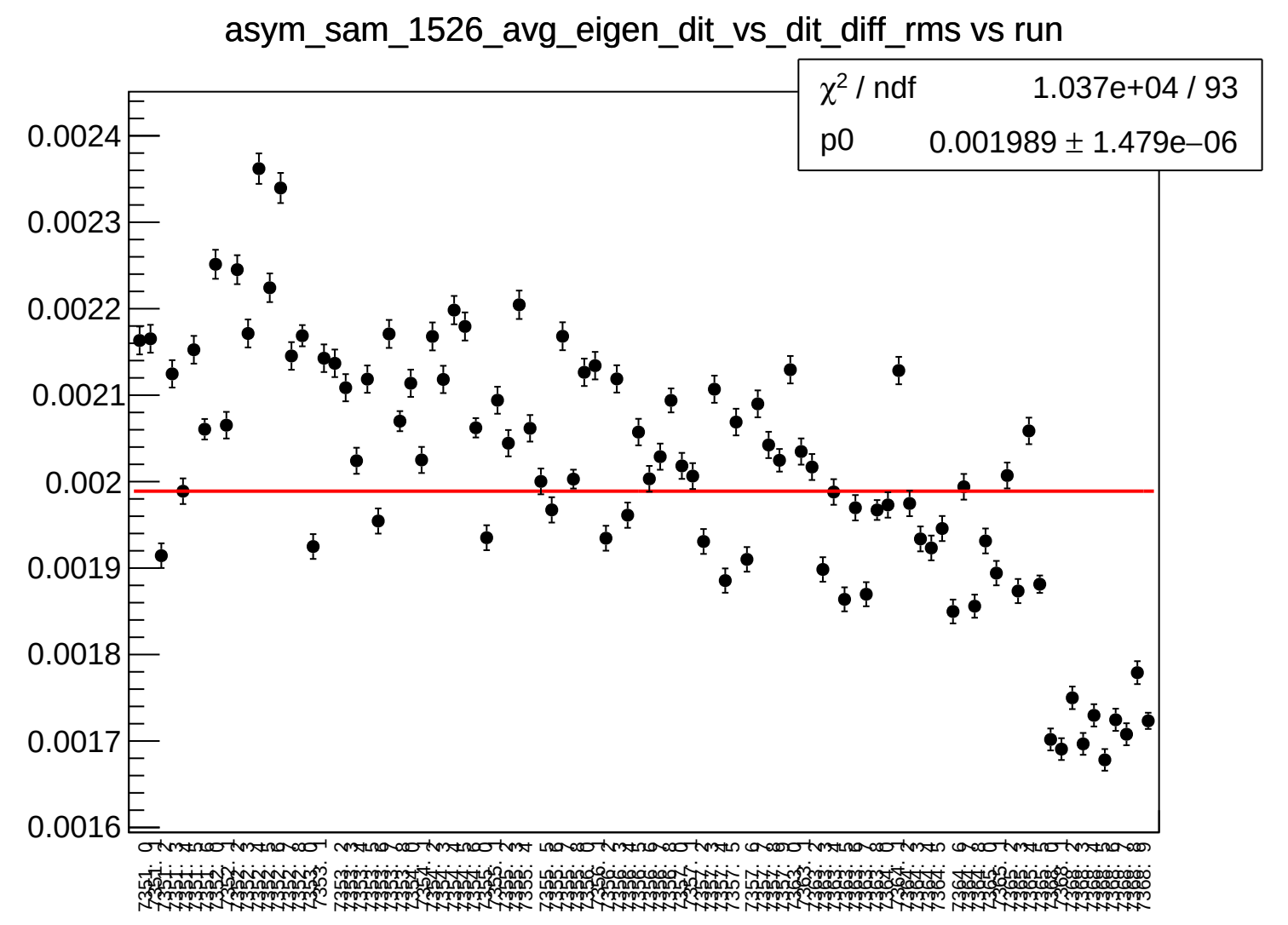

asym_sam_1526_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 116.8 / 93
p0 −0.1082 ± 0.06324
pull
Entries 94
Mean −142.2
Std Dev 0
pull1D
Entries 94
Mean 0.02522
Std Dev 1.114

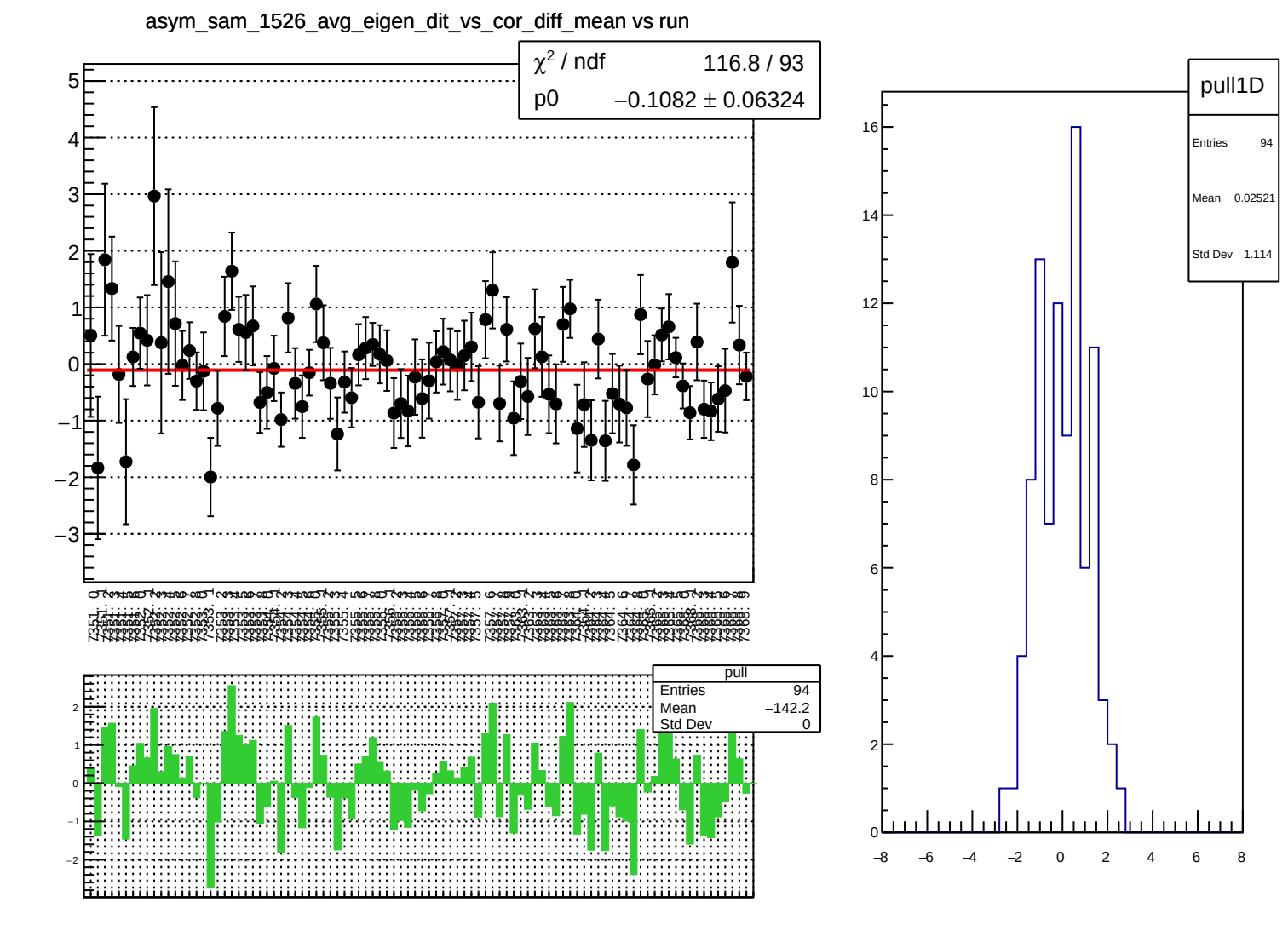

asym_sam_1526_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.127e+04 / 93
p0 58.95 ± 0.04472
160
140
120
100
80
60
40

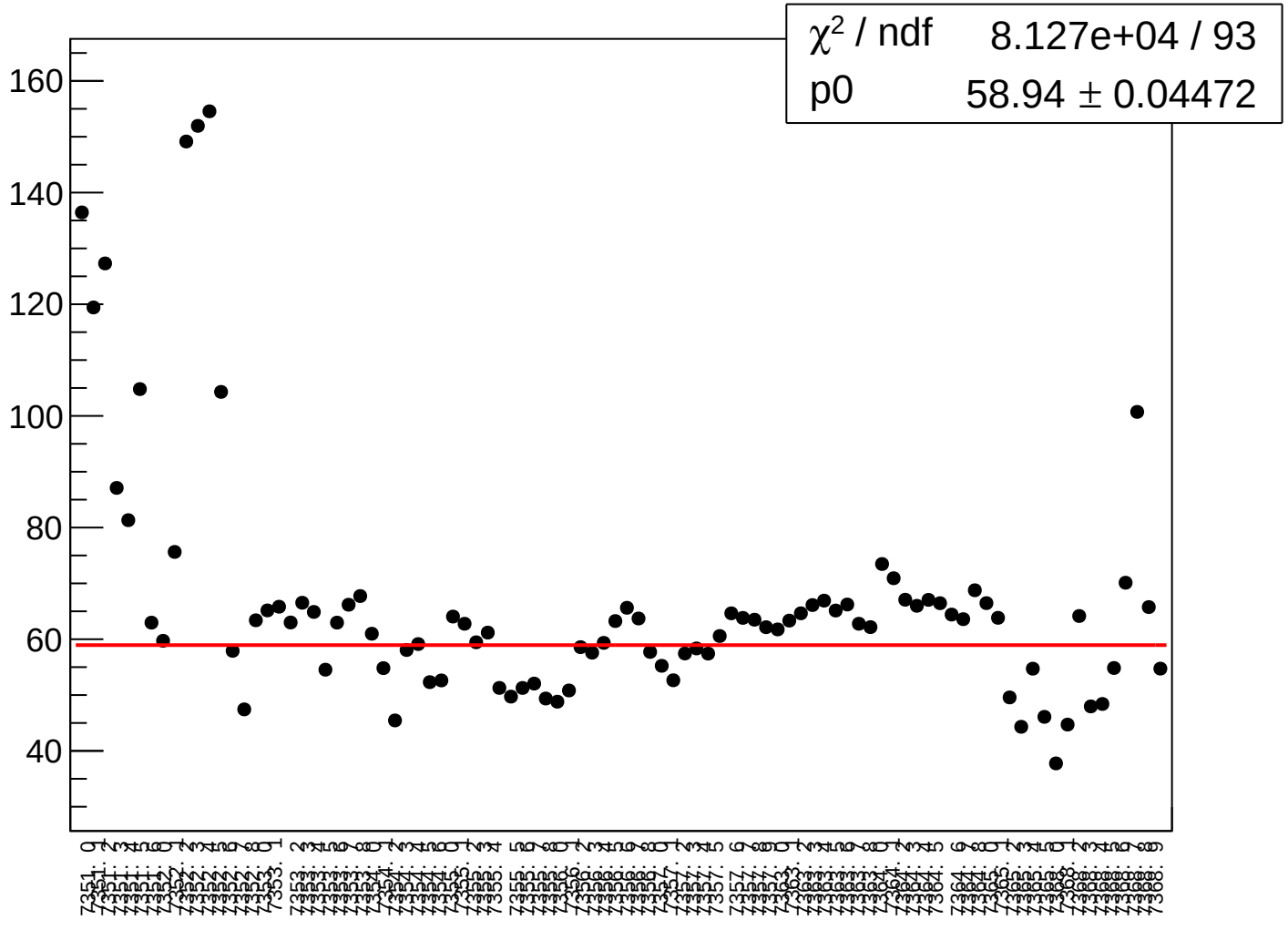

asym_sam_1526_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 116.8 / 93
p0 −0.1082 ± 0.06324
pull
Entries 94
Mean −142.2
Std Dev 0
pull1D
Entries 94
Mean 0.02522
Std Dev 1.114

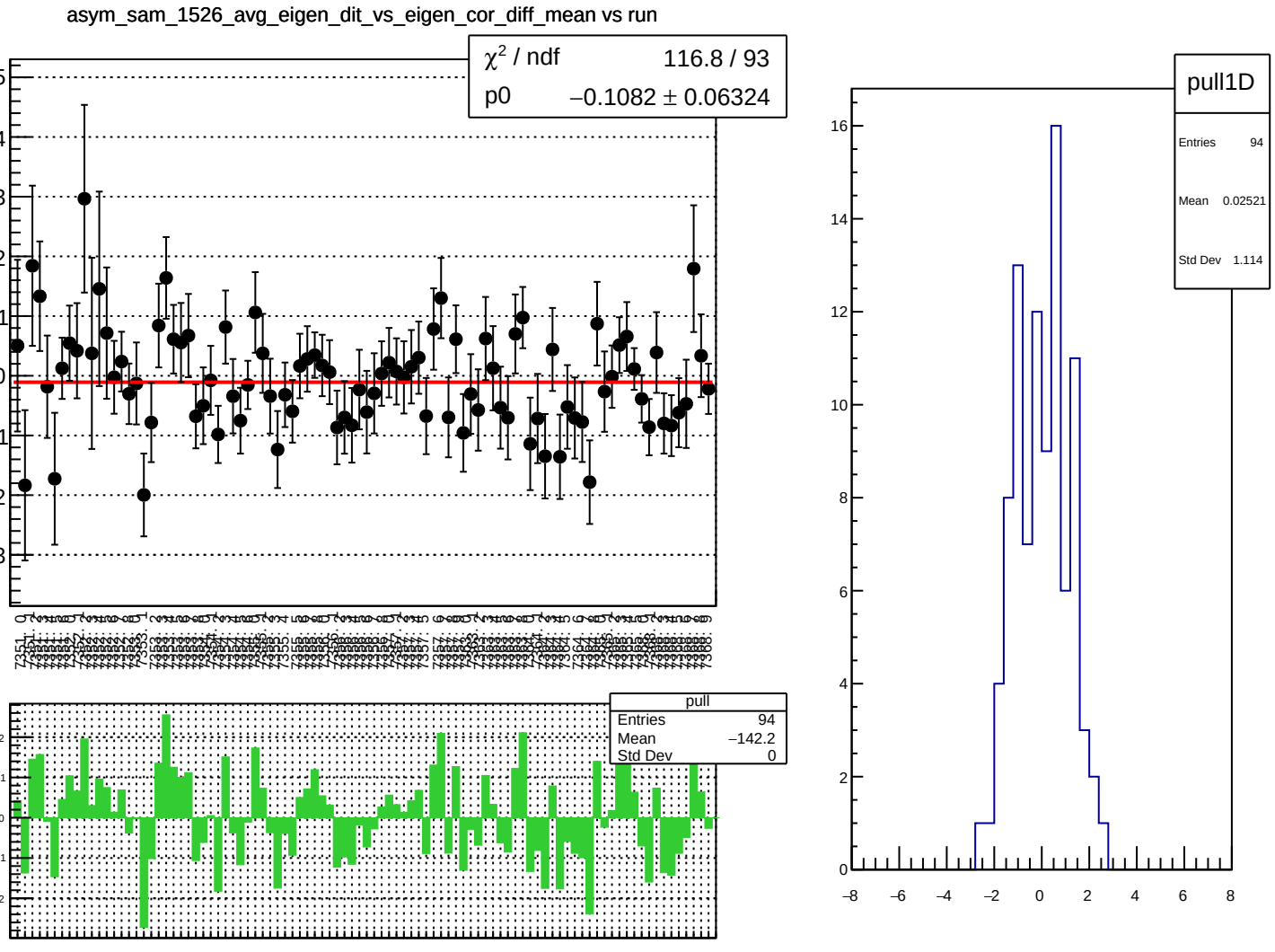

asym_sam_1526_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.127e+04 / 93
p0 58.95 ± 0.04472
160
140
120
100
80
60
40

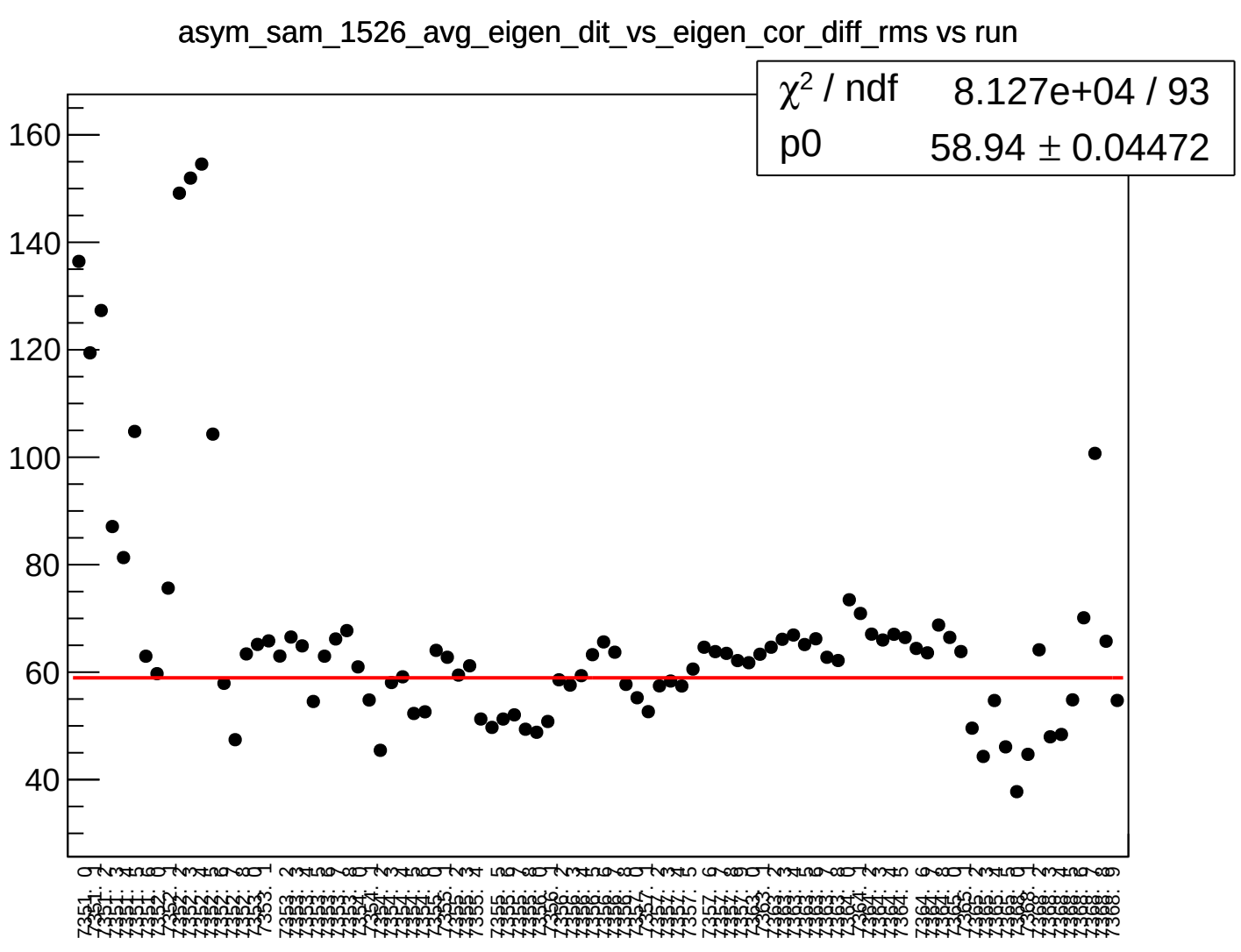

asym_sam_1526_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 204.3 / 93
p0 −2.061e−06 ± 2.092e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 94
Mean −240.7
Std Dev 0
pull1D
Entries 94
Mean −0.02268
Std Dev 1.474

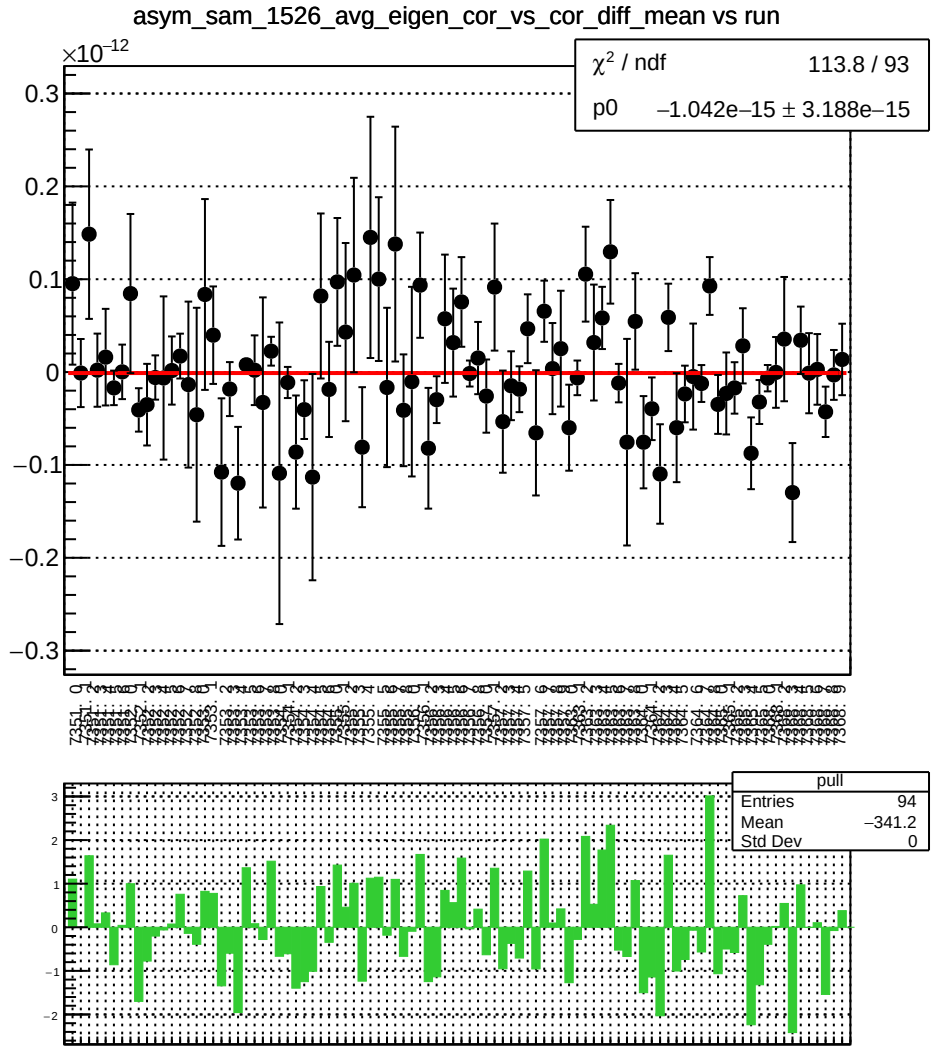

asym_sam_1526_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.037e+04 / 93
p0 0.001989 ± 1.479e−06
0.0024
0.0023
0.0022
0.0021
0.002
0.0019
0.0018
0.0017
0.0016

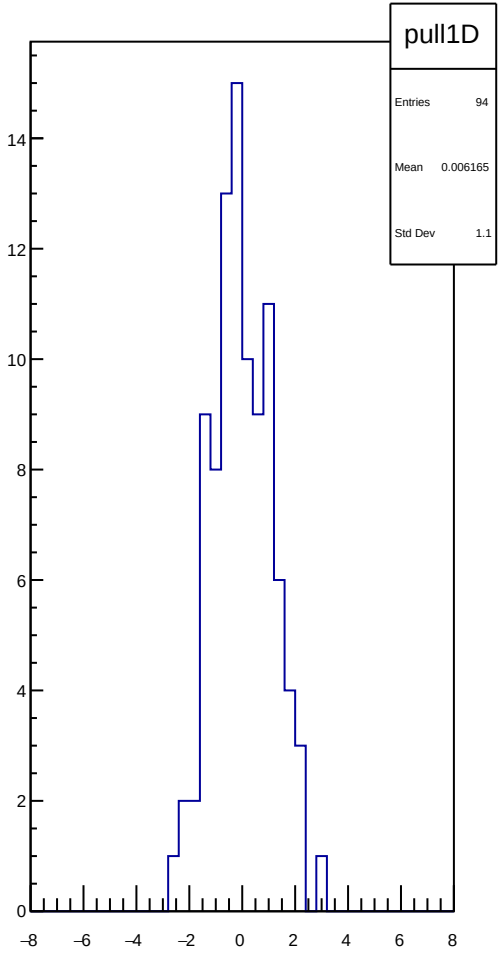

asym_sam_1526_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 116.8 / 93
p0 −0.1082 ± 0.06324
pull
Entries 94
Mean −142.2
Std Dev 0
pull1D
Entries 94
Mean 0.02521
Std Dev 1.114

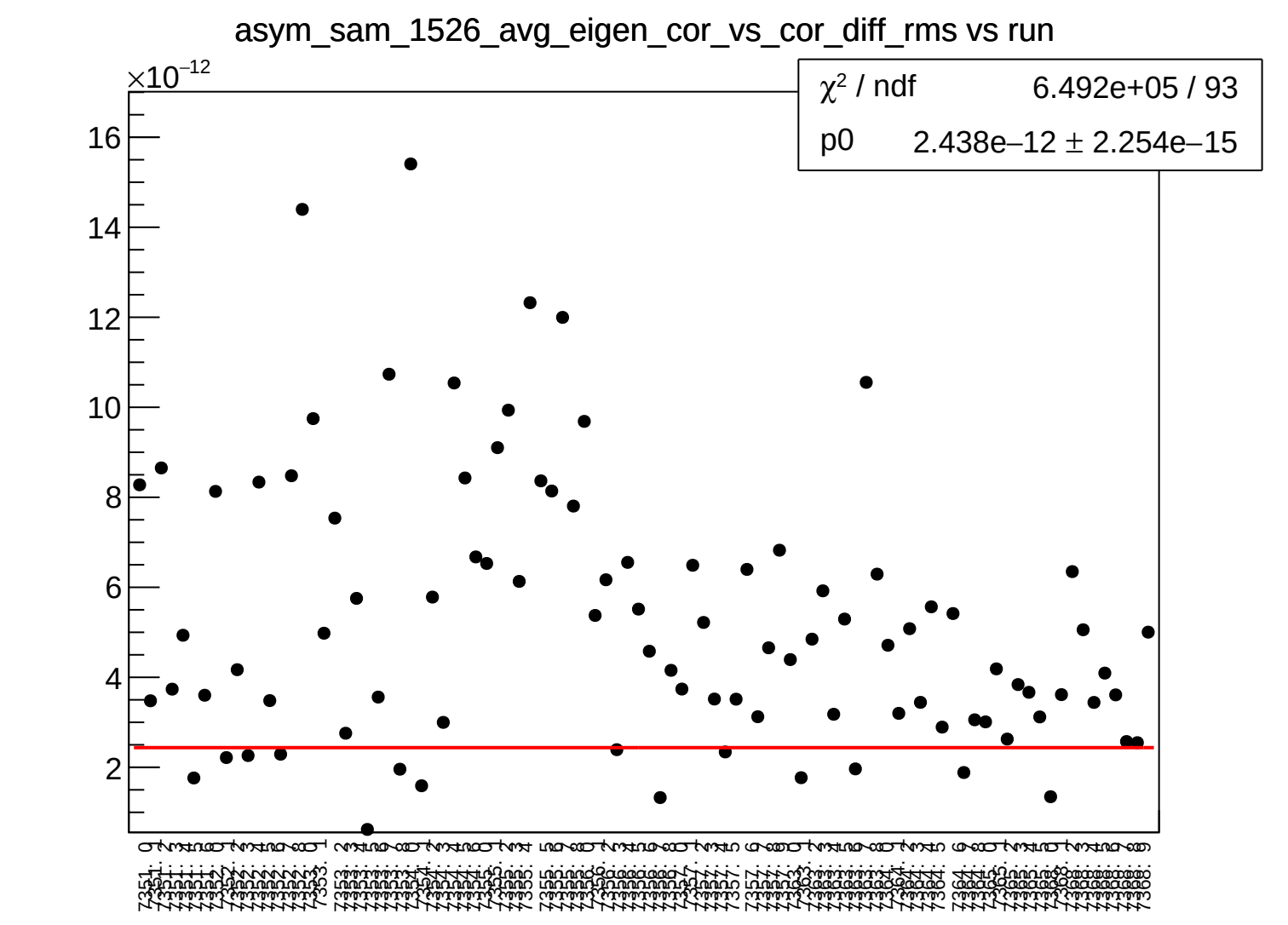

asym_sam_1526_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.127e+04 / 93
p0 58.94 ± 0.04472
160
140
120
100
80
60
40

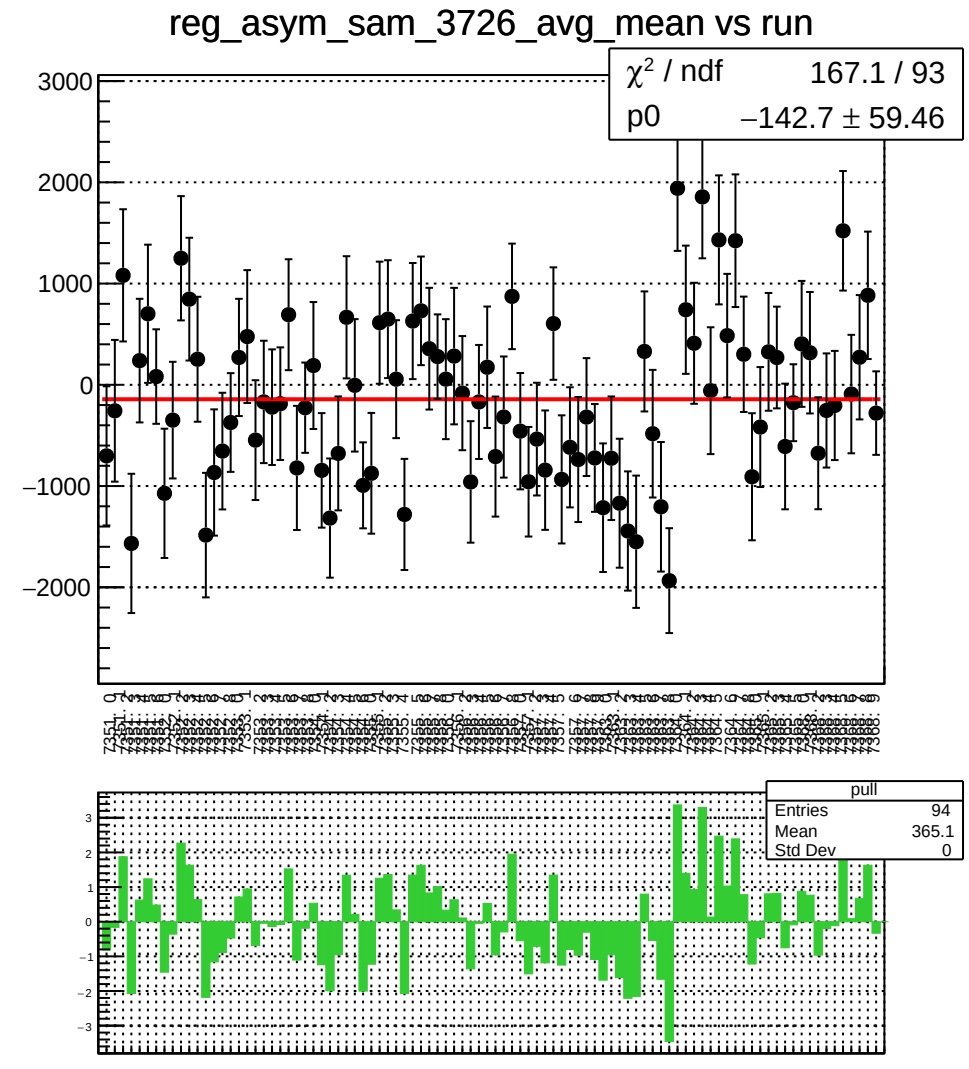

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 116.8 / 93
p0 −0.1082 ± 0.06324
pull
Entries 94
Mean −142.2
Std Dev 0
pull1D
Entries 94
Mean 0.02521
Std Dev 1.114

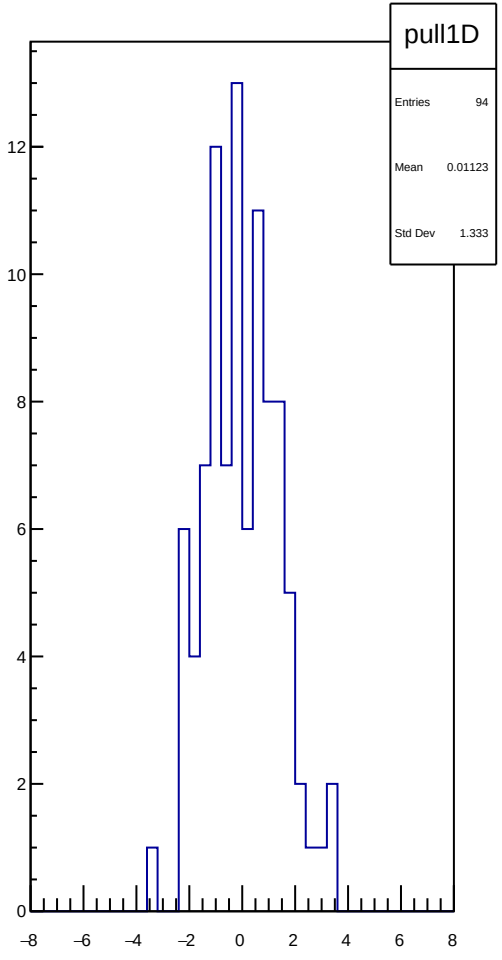

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.127e+04 / 93
p0 58.94 ± 0.04472
160
140
120
100
80
60
40

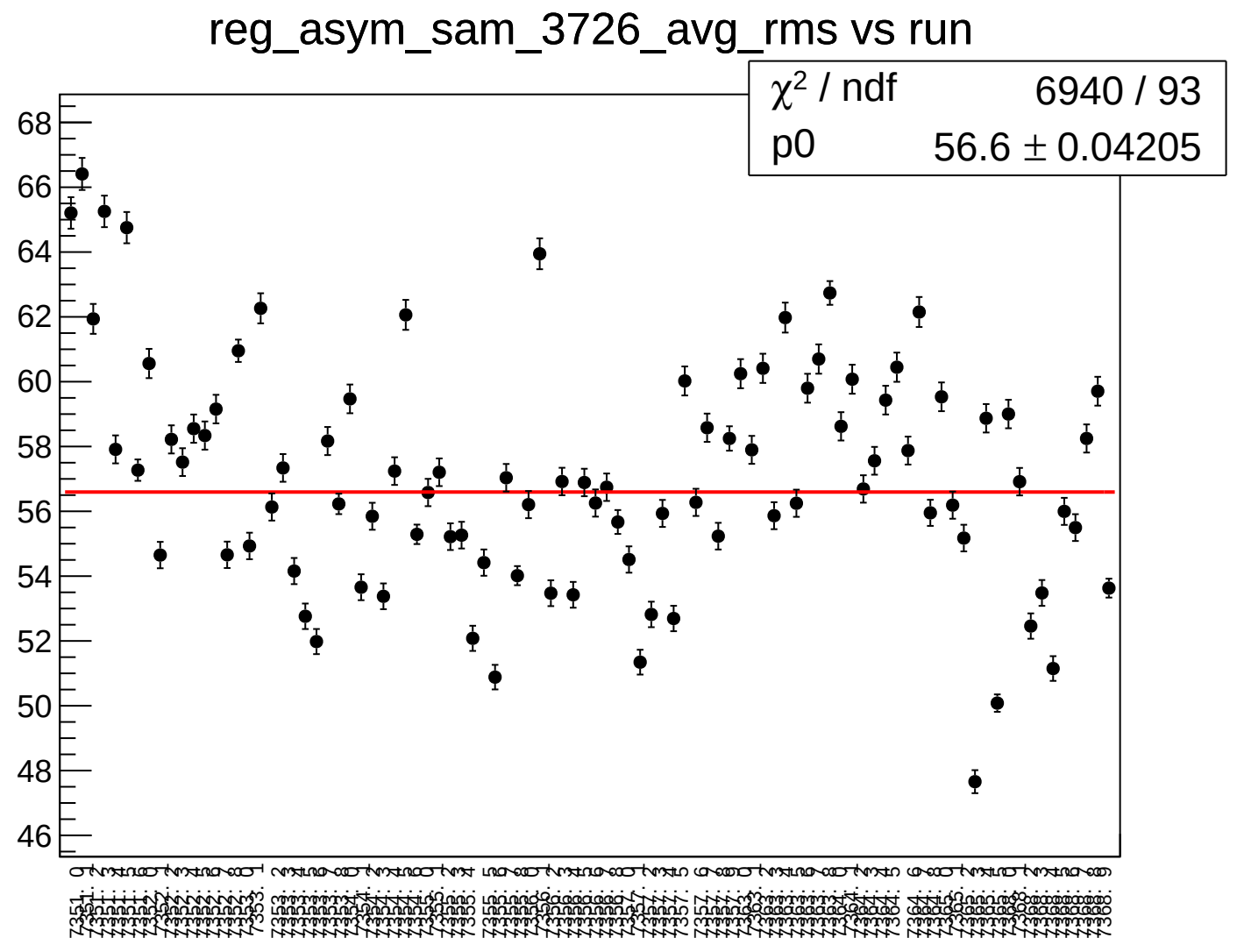

asym_sam_1526_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 113.8 / 93
p0 −1.042e−15 ± 3.188e−15
pull
Entries 94
Mean −341.2
Std Dev 0

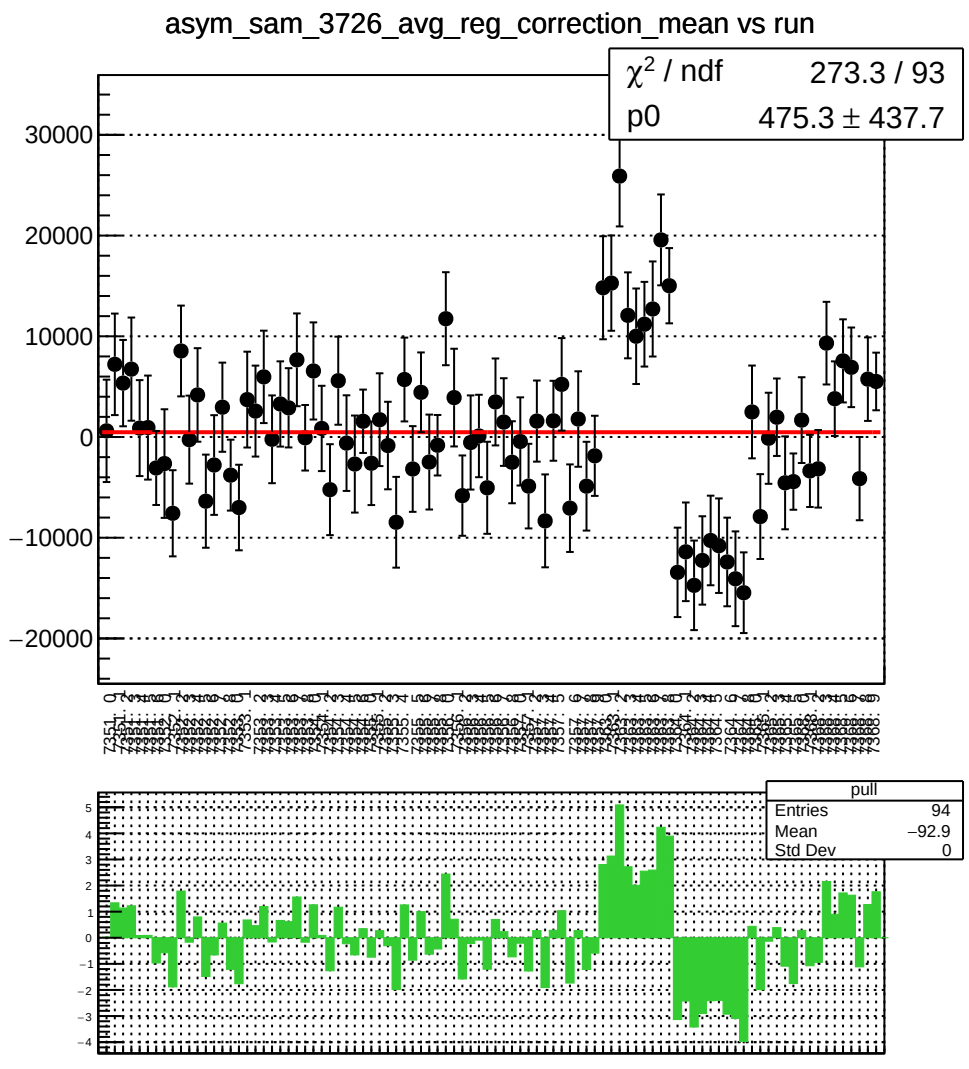

pull1D
Entries 94
Mean 0.006165
Std Dev 1.1

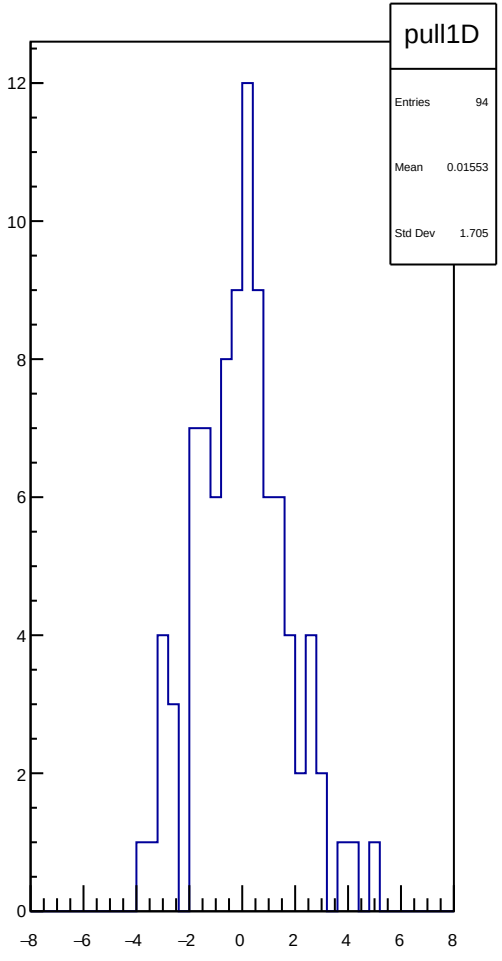

asym_sam_1526_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.492e+05 / 93
p0 2.438e−12 ± 2.254e−15
16
14
12
10
8
6
4
2

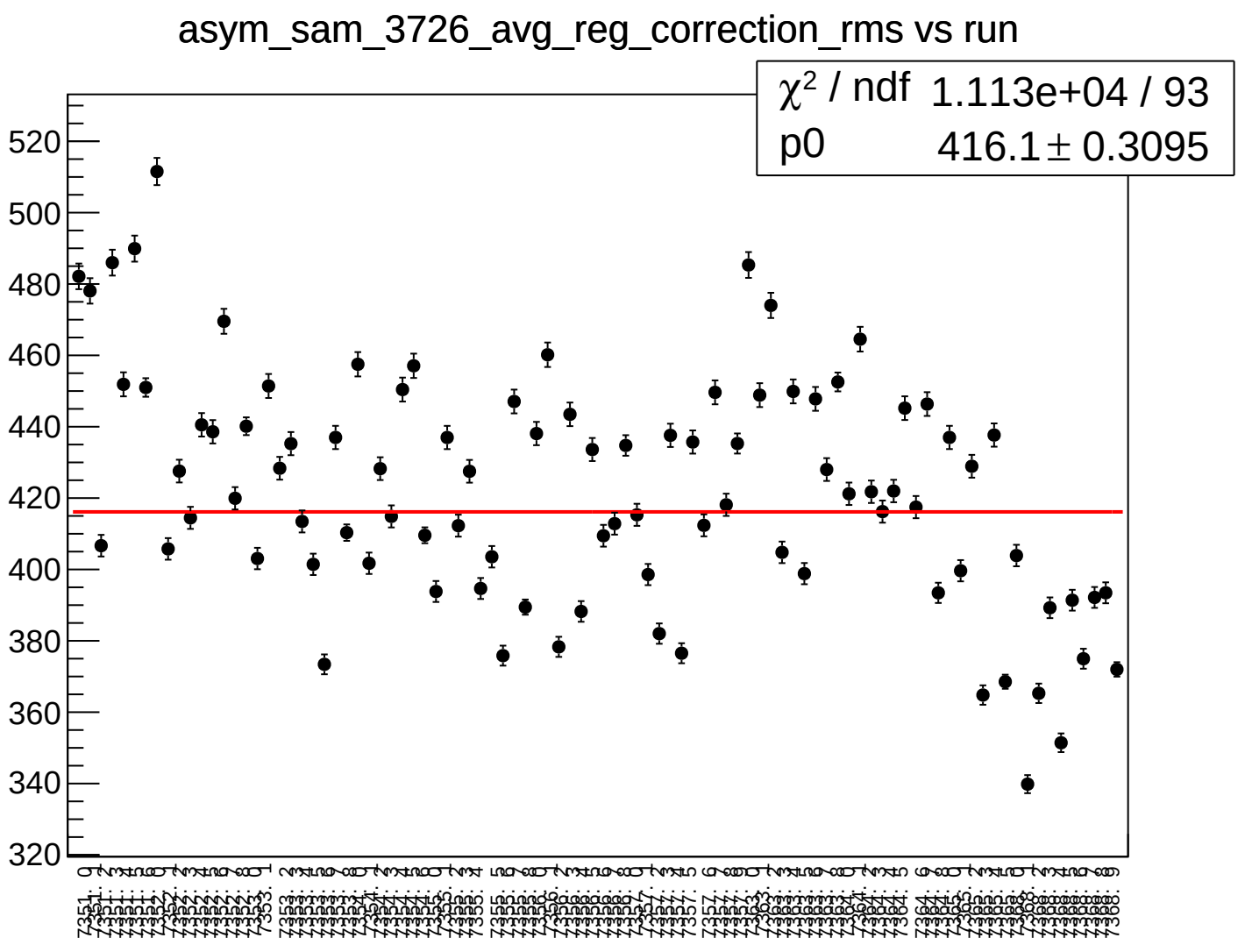

reg_asym_sam_3726_avg_mean vs run
χ² / ndf 167.1 / 93
p0 −142.7 ± 59.46
3000
2000
1000
0
−1000
−2000
pull
Entries 94
Mean 365.1
Std Dev 0
3
2
1
0
−1
−2
−3

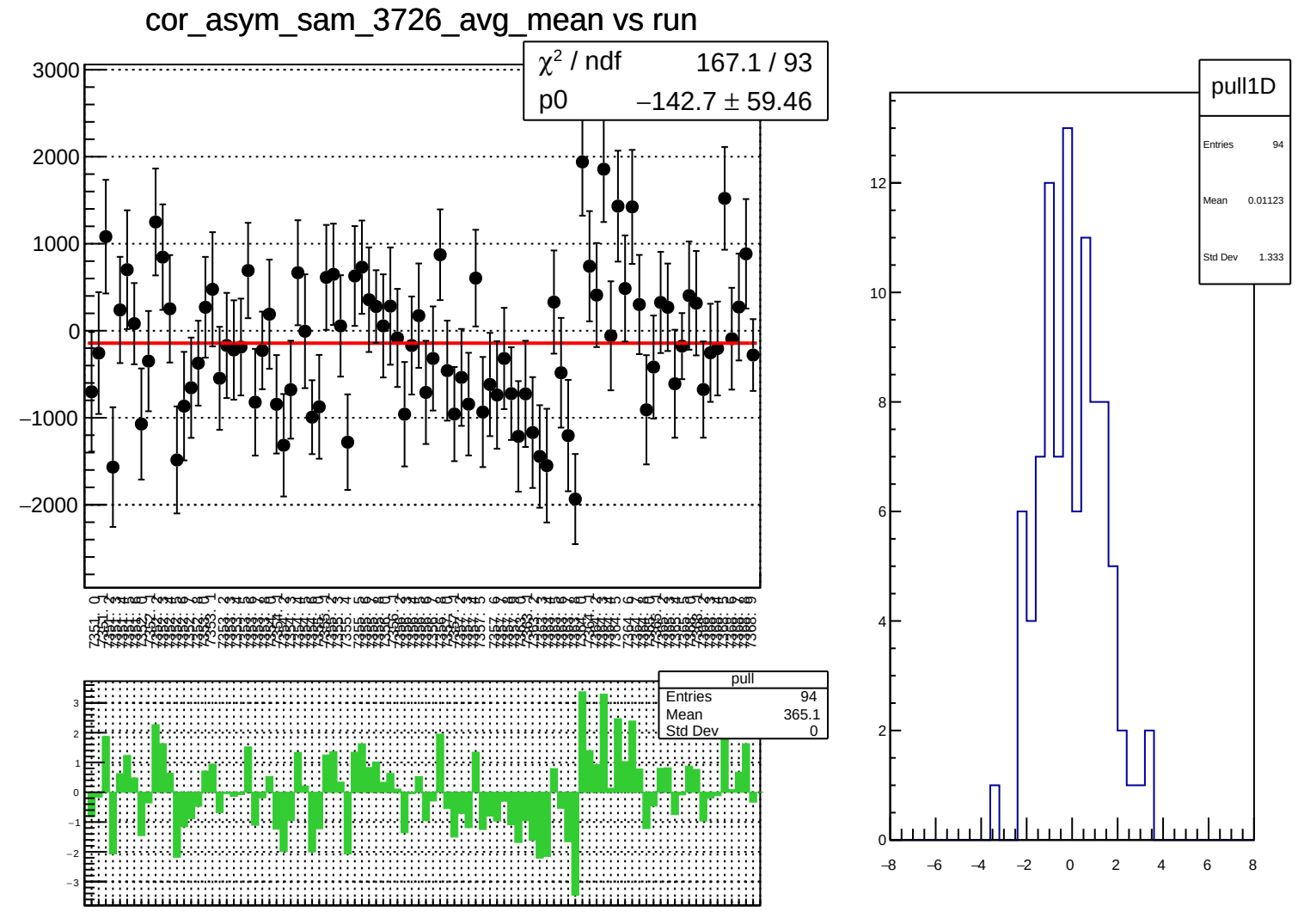

pull1D
Entries 94
Mean 0.01123
Std Dev 1.333
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

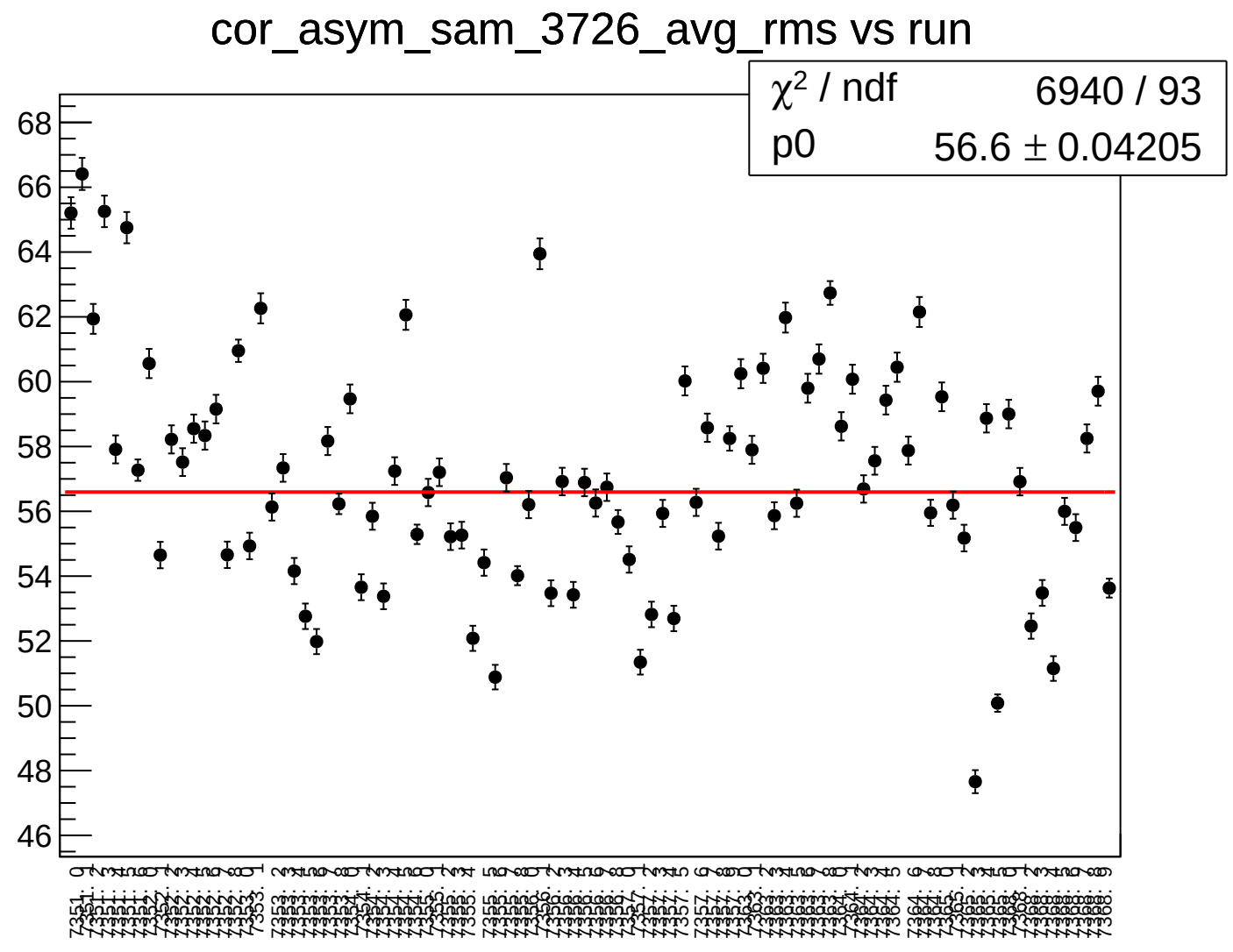

reg_asym_sam_3726_avg_rms vs run
χ² / ndf 6940 / 93
p0 56.6 ± 0.04205
68
66
64
62
60
58
56
54
52
50
48
46

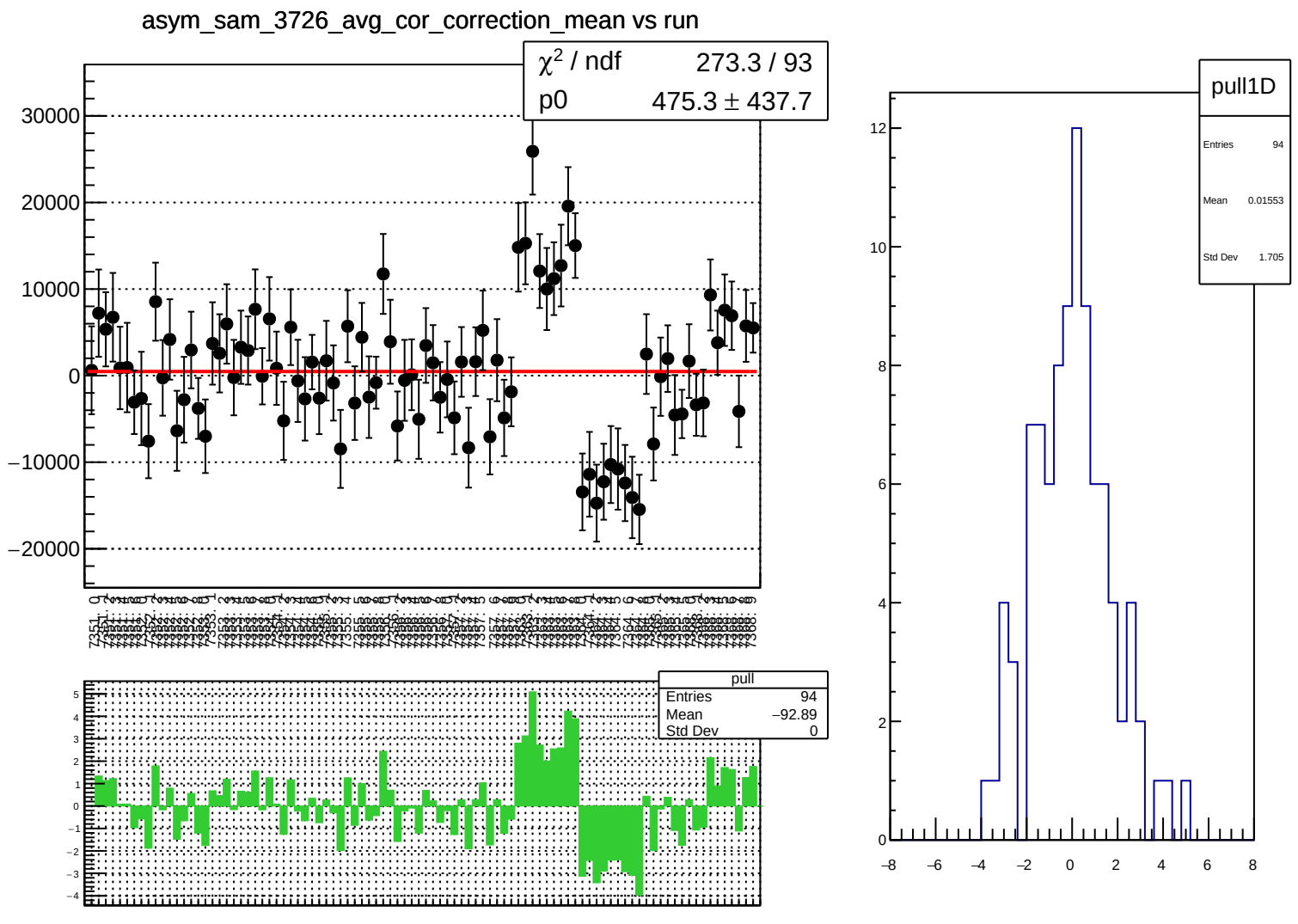

asym_sam_3726_avg_reg_correction_mean vs run
χ² / ndf 273.3 / 93
p0 475.3 ± 437.7
30000
20000
10000
0
−10000
−20000
pull
Entries 94
Mean −92.9
Std Dev 0
5
4
3
2
1
0
−1
−2
−3
−4

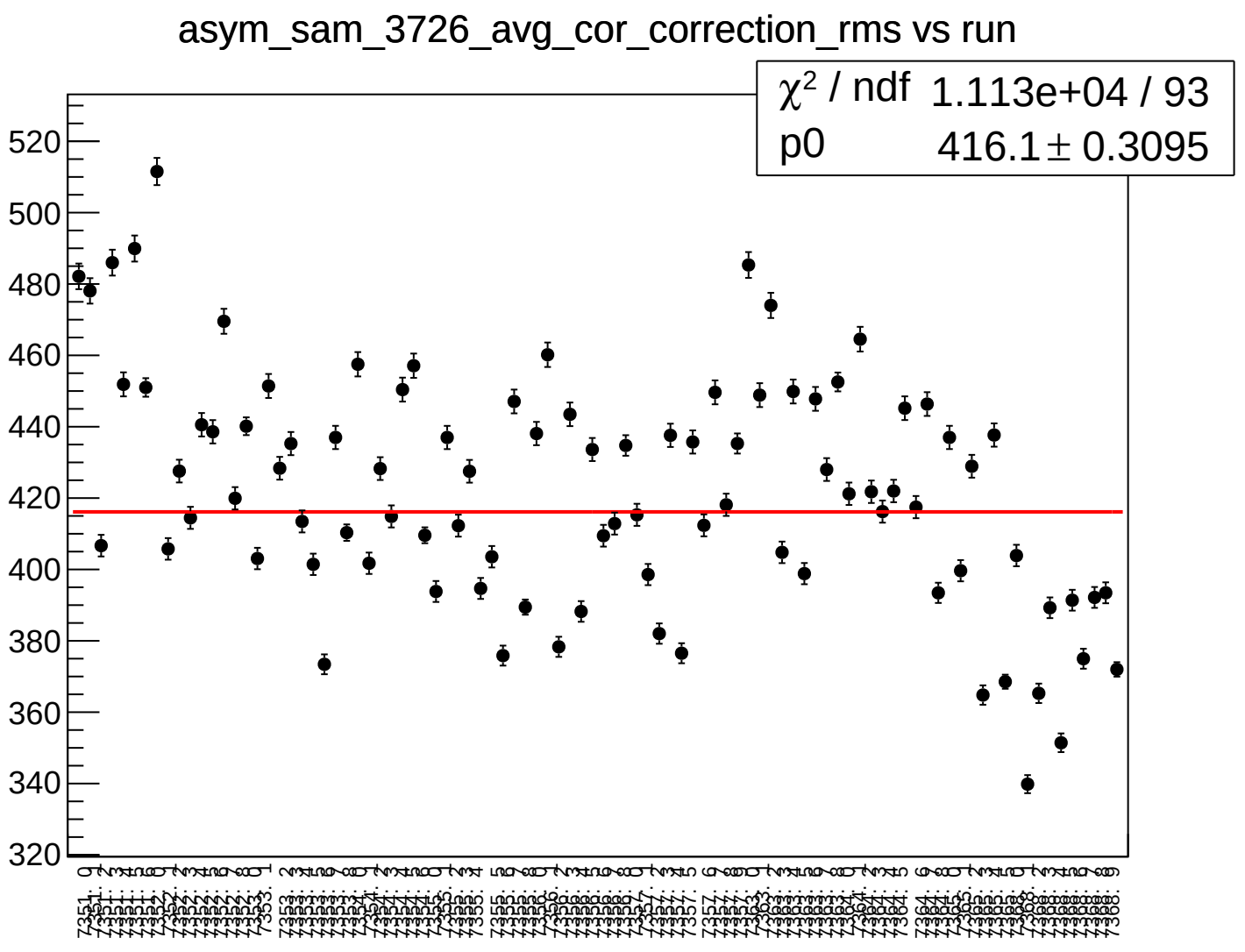

pull1D
Entries 94
Mean 0.01553
Std Dev 1.705
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

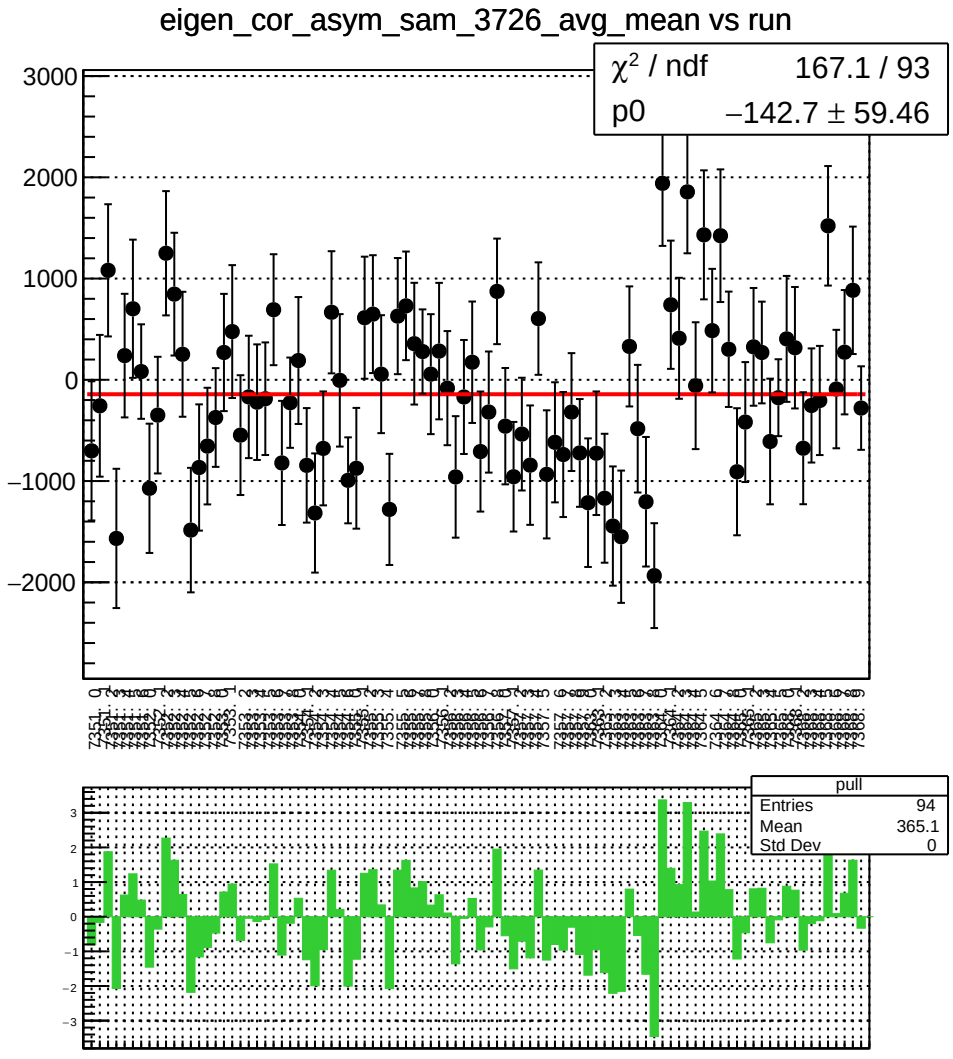

asym_sam_3726_avg_reg_correction_rms vs run
χ² / ndf 1.113e+04 / 93
p0 416.1 ± 0.3095
520
500
480
460
440
420
400
380
360
340
320

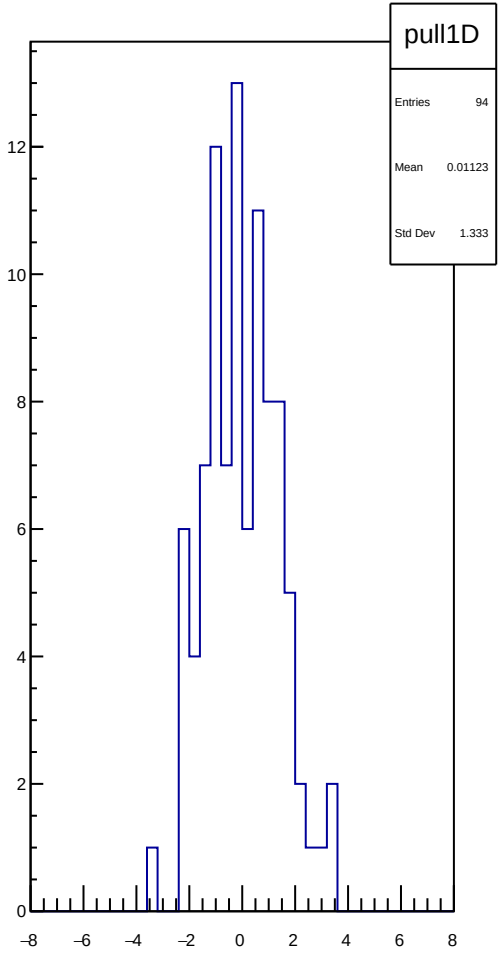

cor_asym_sam_3726_avg_mean vs run
χ² / ndf 167.1 / 93
p0 −142.7 ± 59.46
3000
2000
1000
0
−1000
−2000
pull
Entries 94
Mean 365.1
Std Dev 0
pull1D
Entries 94
Mean 0.01123
Std Dev 1.333
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

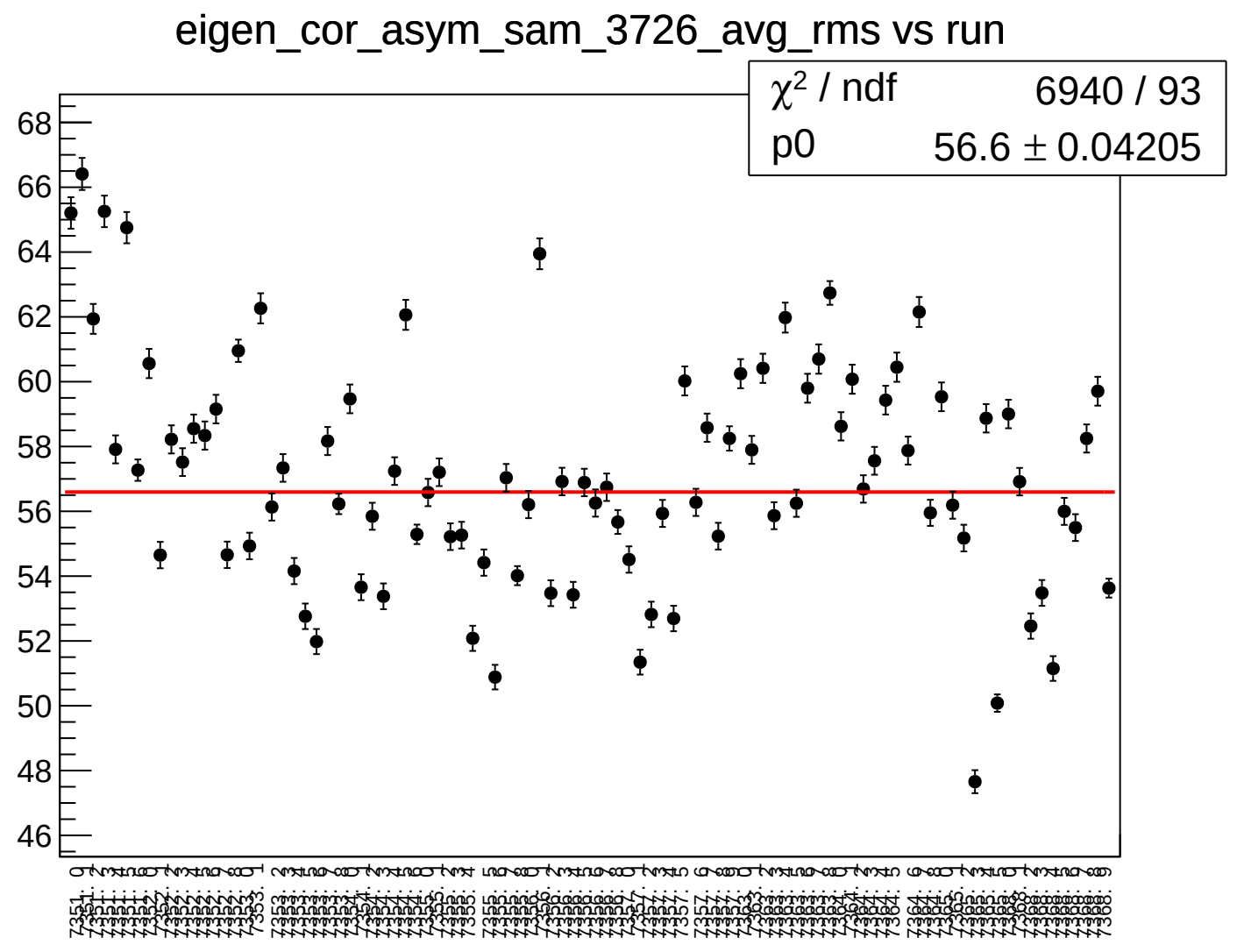

cor_asym_sam_3726_avg_rms vs run
χ² / ndf 6940 / 93
p0 56.6 ± 0.04205
68
66
64
62
60
58
56
54
52
50
48
46

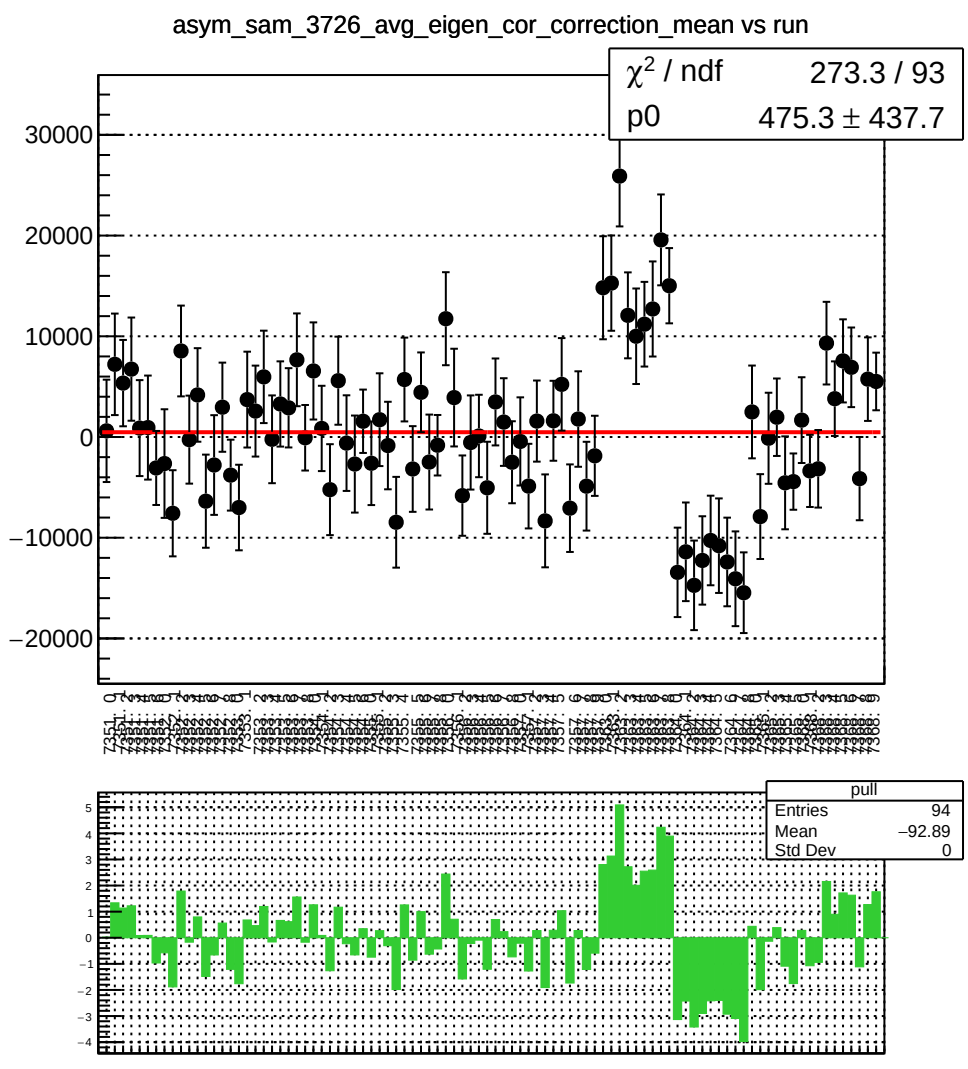

asym_sam_3726_avg_cor_correction_mean vs run
χ² / ndf 273.3 / 93
p0 475.3 ± 437.7
30000
20000
10000
0
−10000
−20000
pull
Entries 94
Mean −92.89
Std Dev 0
5
4
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 94
Mean 0.01553
Std Dev 1.705
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

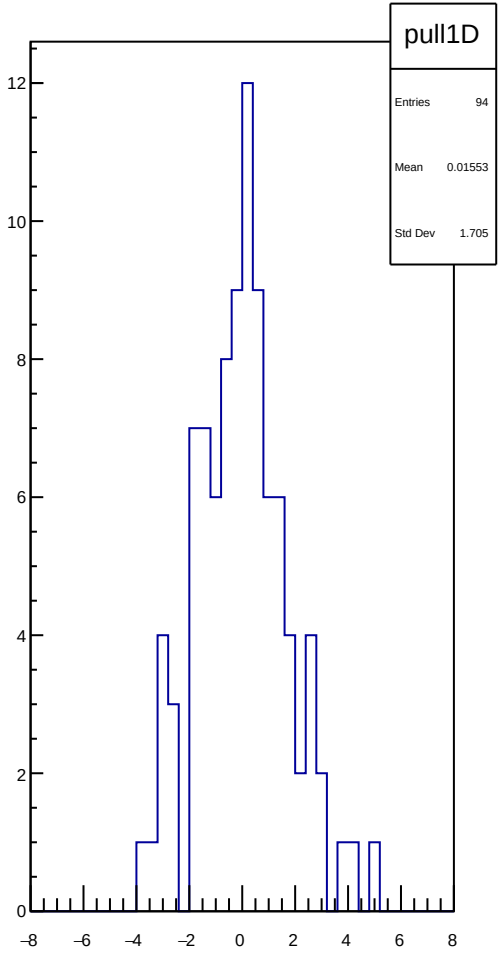

asym_sam_3726_avg_cor_correction_rms vs run
χ² / ndf 1.113e+04 / 93
p0 416.1 ± 0.3095
520
500
480
460
440
420
400
380
360
340
320

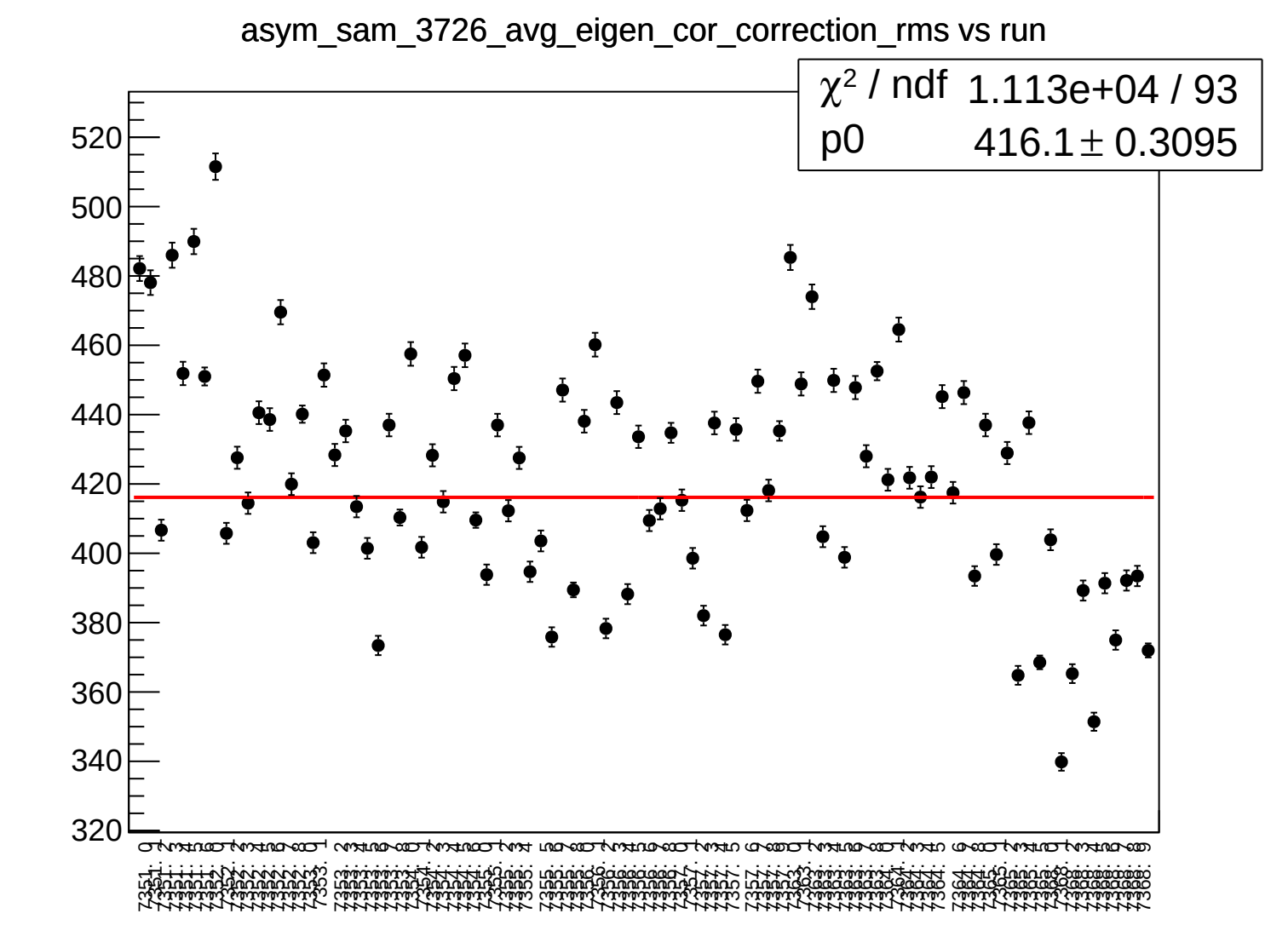

eigen_cor_asym_sam_3726_avg_mean vs run
χ² / ndf 167.1 / 93
p0 −142.7 ± 59.46
3000
2000
1000
0
−1000
−2000
pull
Entries 94
Mean 365.1
Std Dev 0
3
2
1
0
−1
−2
−3

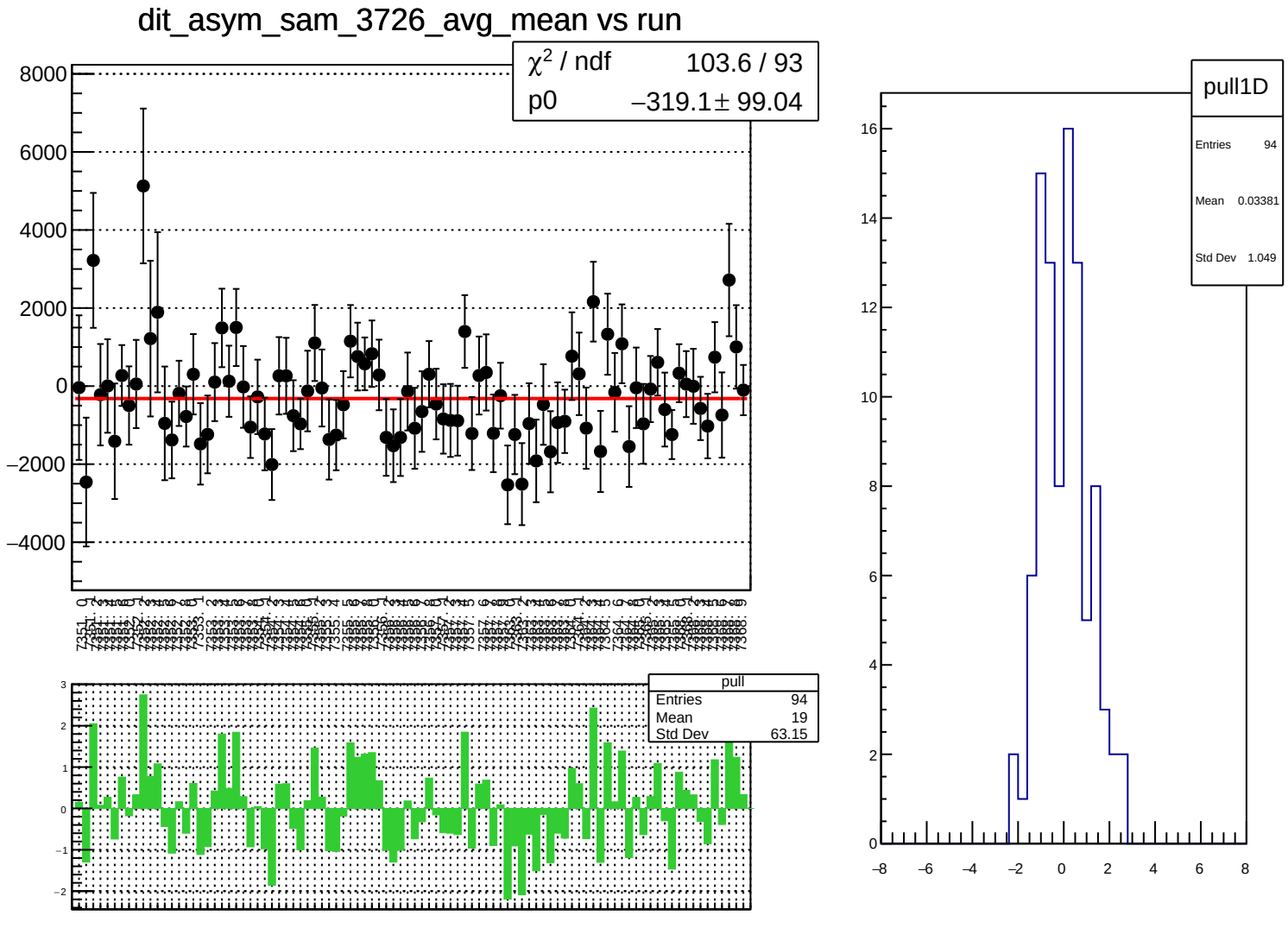

pull1D
Entries 94
Mean 0.01123
Std Dev 1.333
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

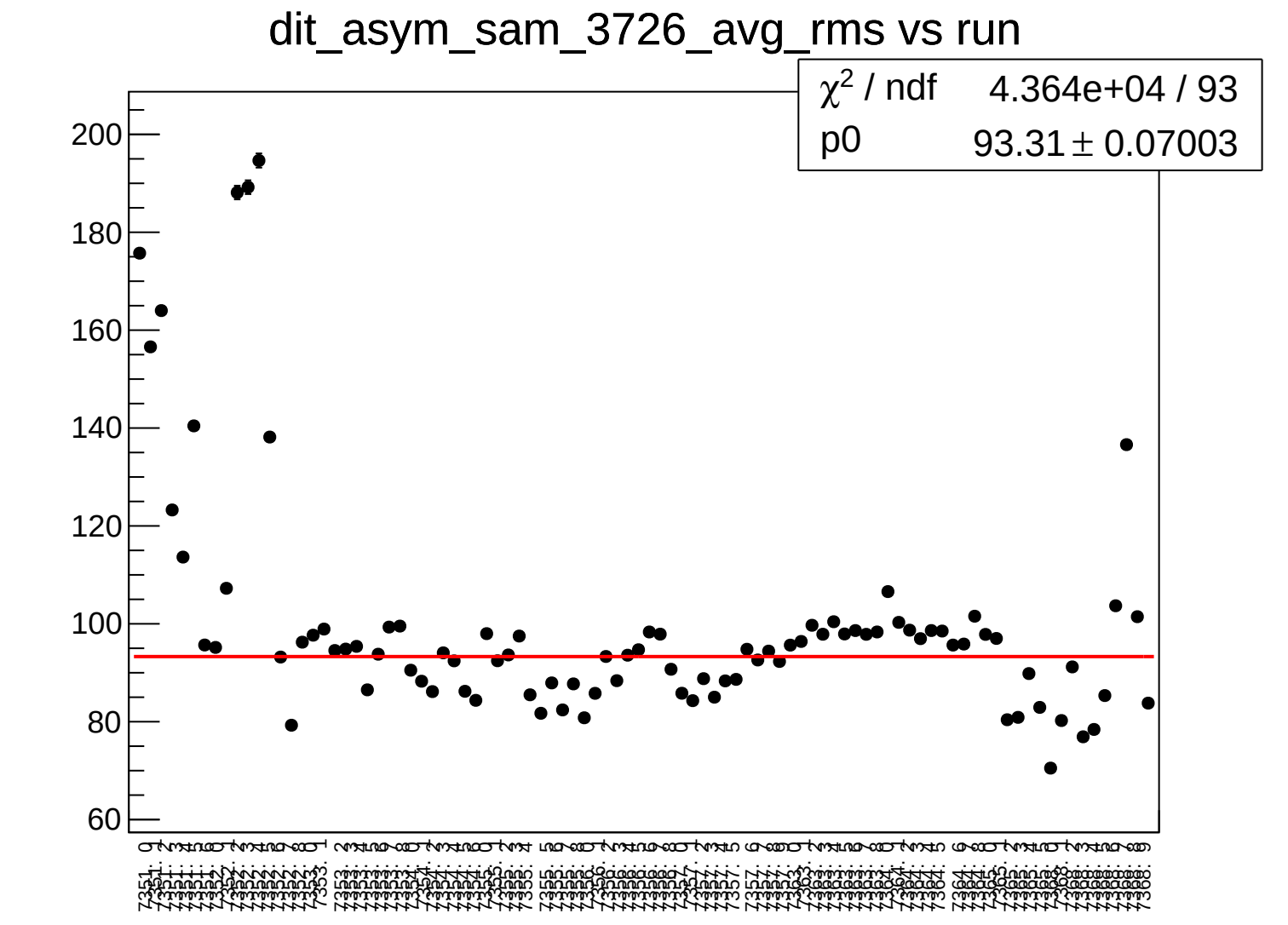

eigen_cor_asym_sam_3726_avg_rms vs run
χ^2 / ndf 6940 / 93
p0 56.6 ± 0.04205
68
66
64
62
60
58
56
54
52
50
48
46

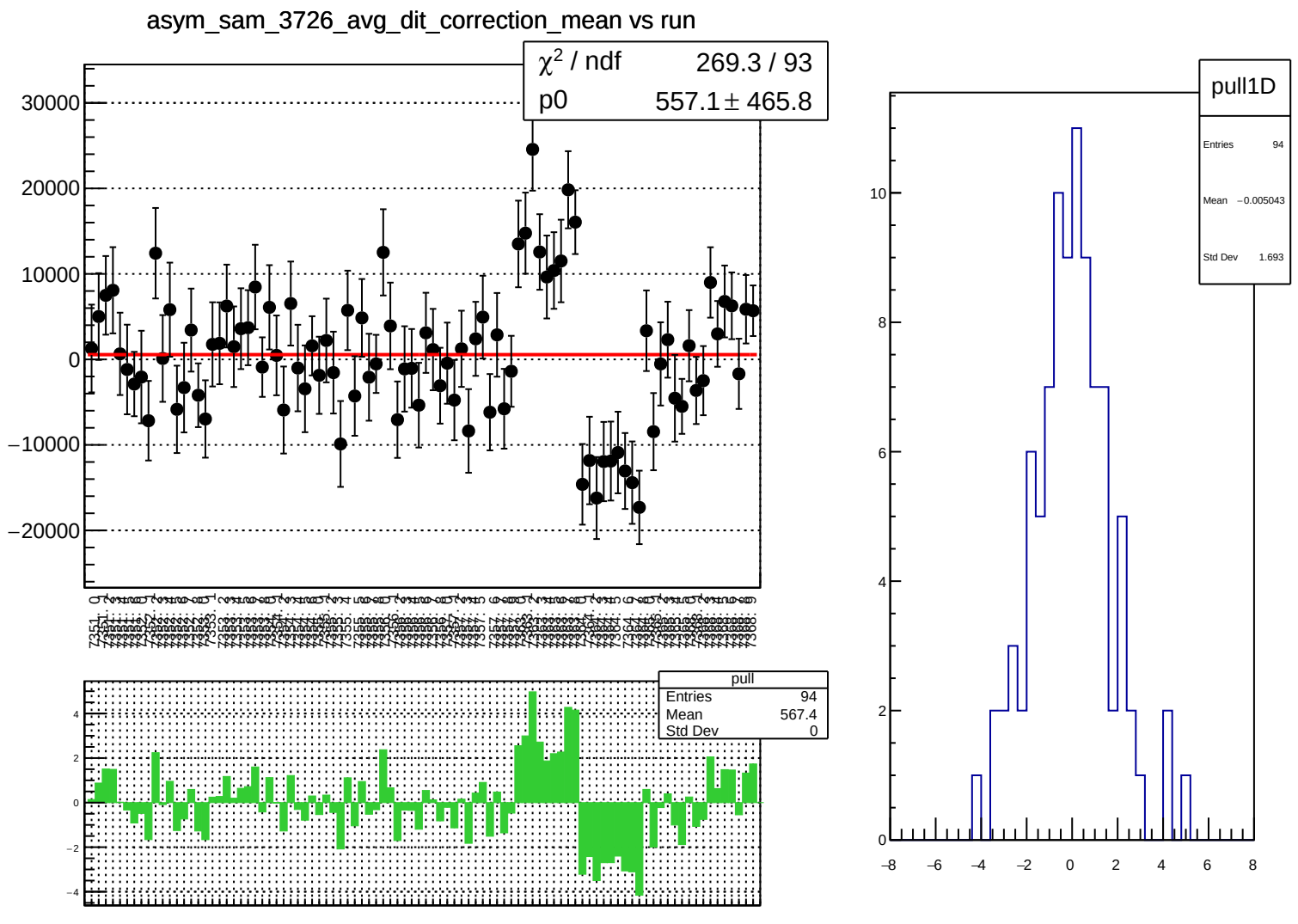

asym_sam_3726_avg_eigen_cor_correction_mean vs run
χ² / ndf 273.3 / 93
p0 475.3 ± 437.7
30000
20000
10000
0
−10000
−20000
pull
Entries 94
Mean −92.89
Std Dev 0
5
4
3
2
1
0
−1
−2
−3
−4

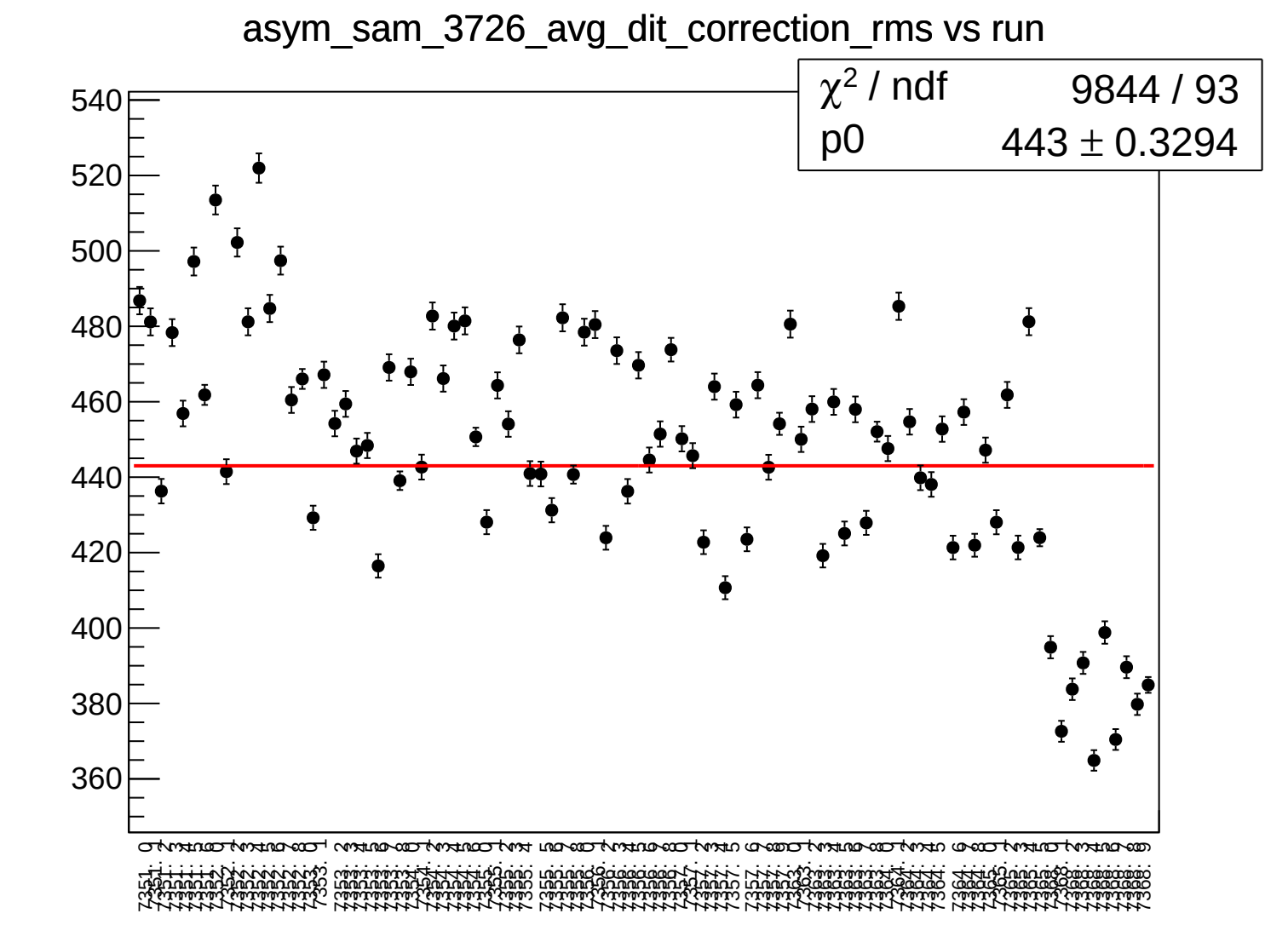

pull1D
Entries 94
Mean 0.01553
Std Dev 1.705
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

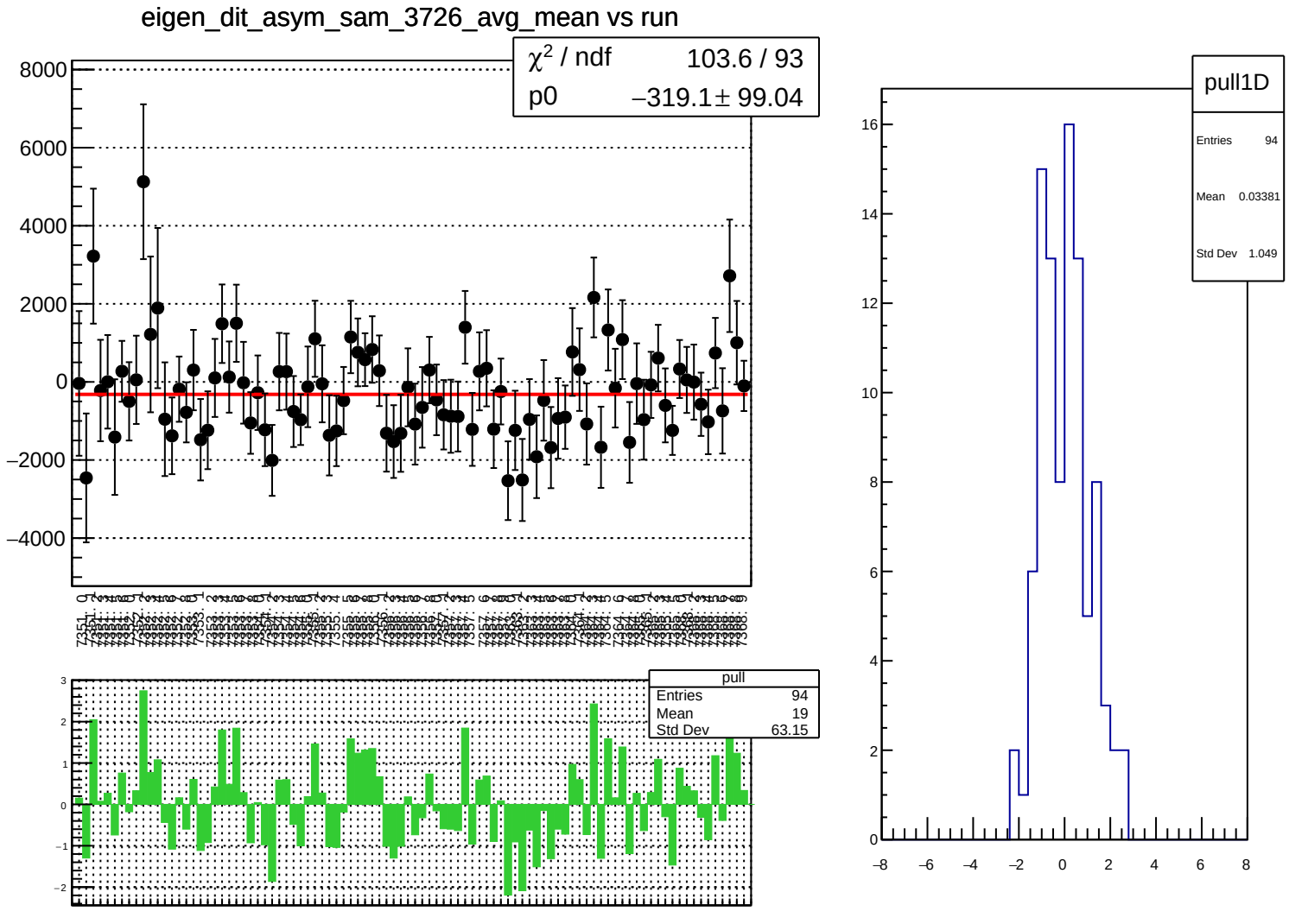

asym_sam_3726_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.113e+04 / 93
p0 416.1 ± 0.3095
520
500
480
460
440
420
400
380
360
340
320

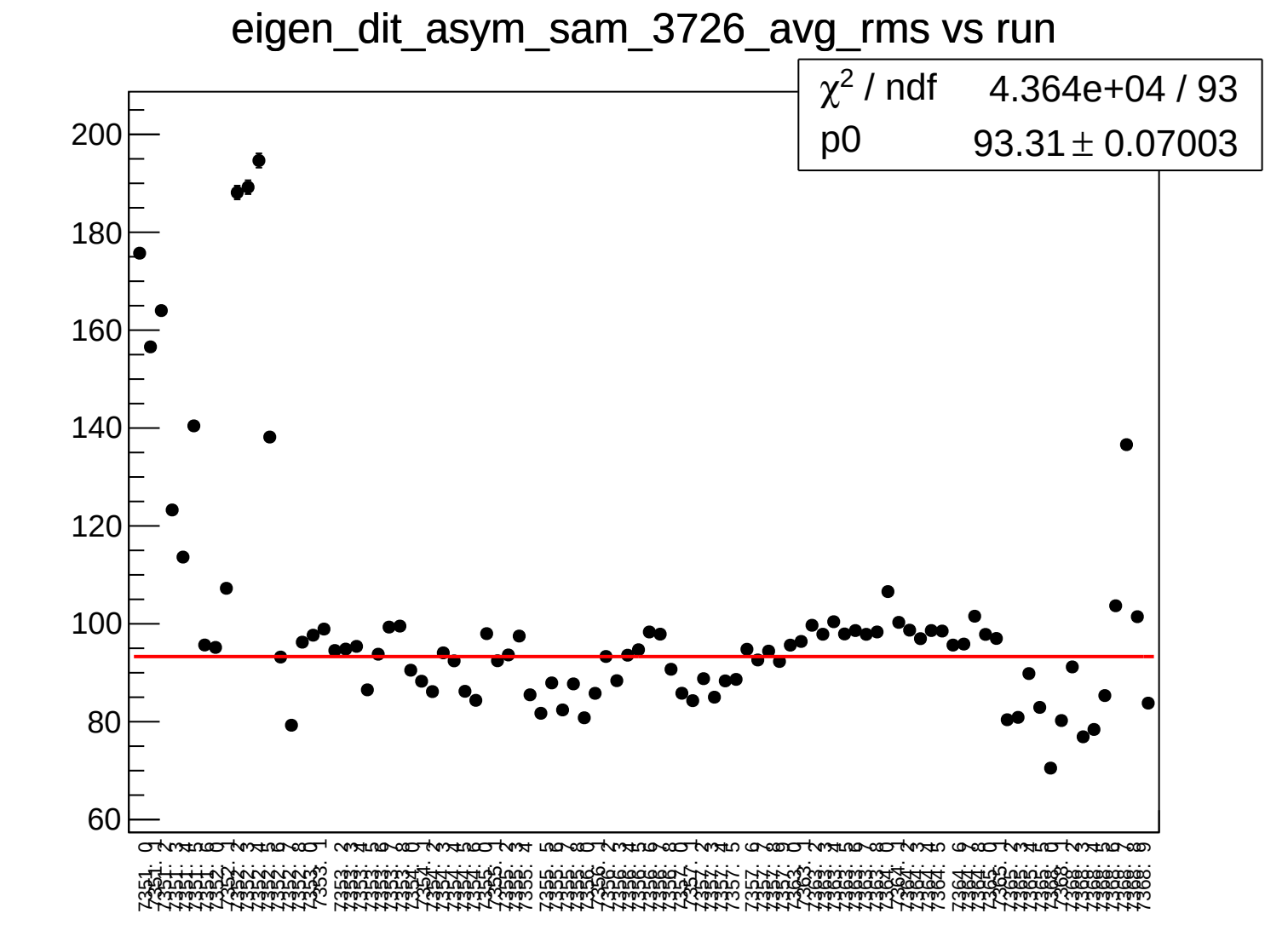

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 103.6 / 93
p0 −319.1± 99.04
8000
6000
4000
2000
0
−2000
−4000
pull
Entries 94
Mean 19
Std Dev 63.15
3
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.03381
Std Dev 1.049
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

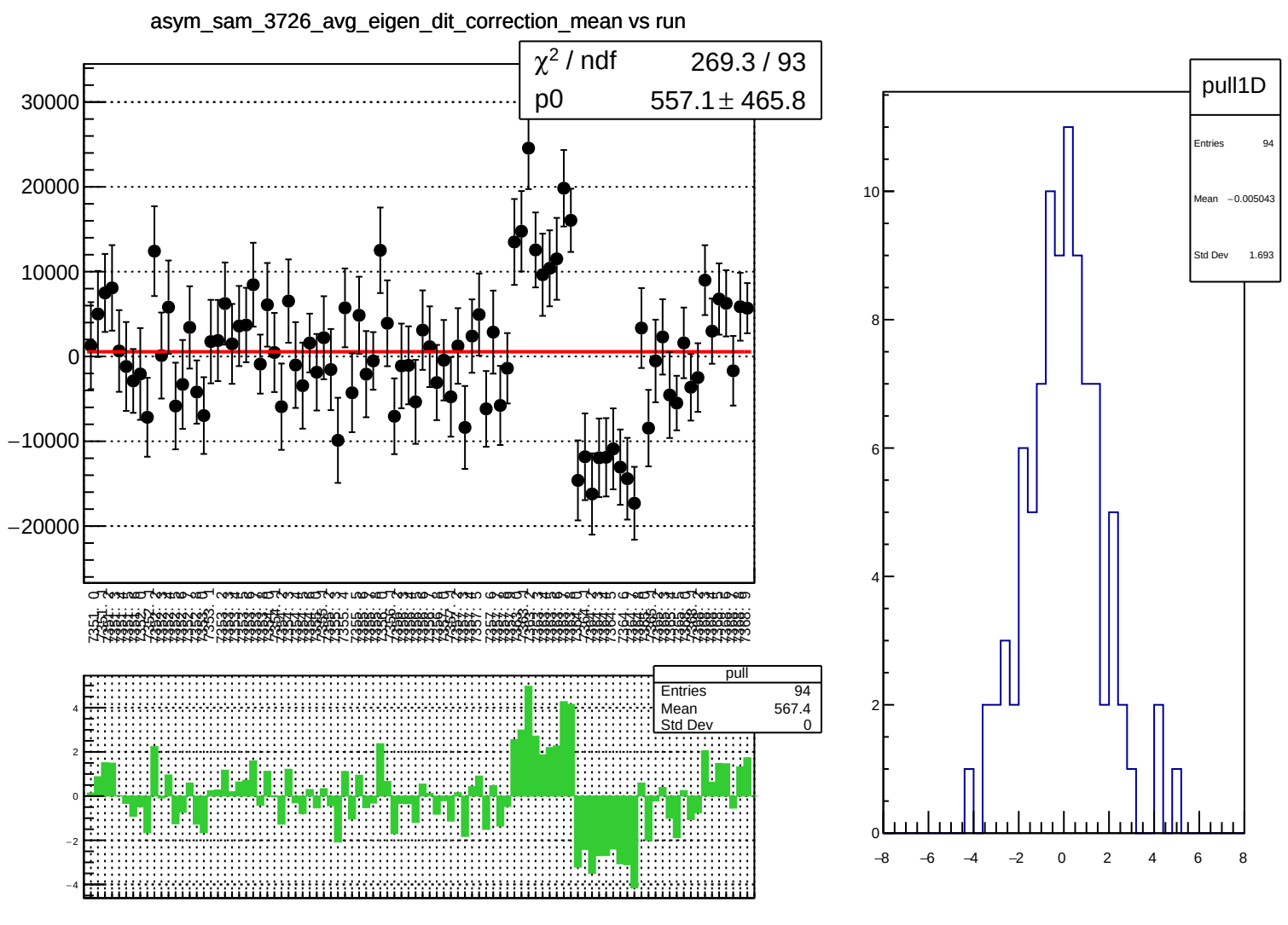

dit_asym_sam_3726_avg_rms vs run
χ^2 / ndf 4.364e+04 / 93
p0 93.31 ± 0.07003
200
180
160
140
120
100
80
60

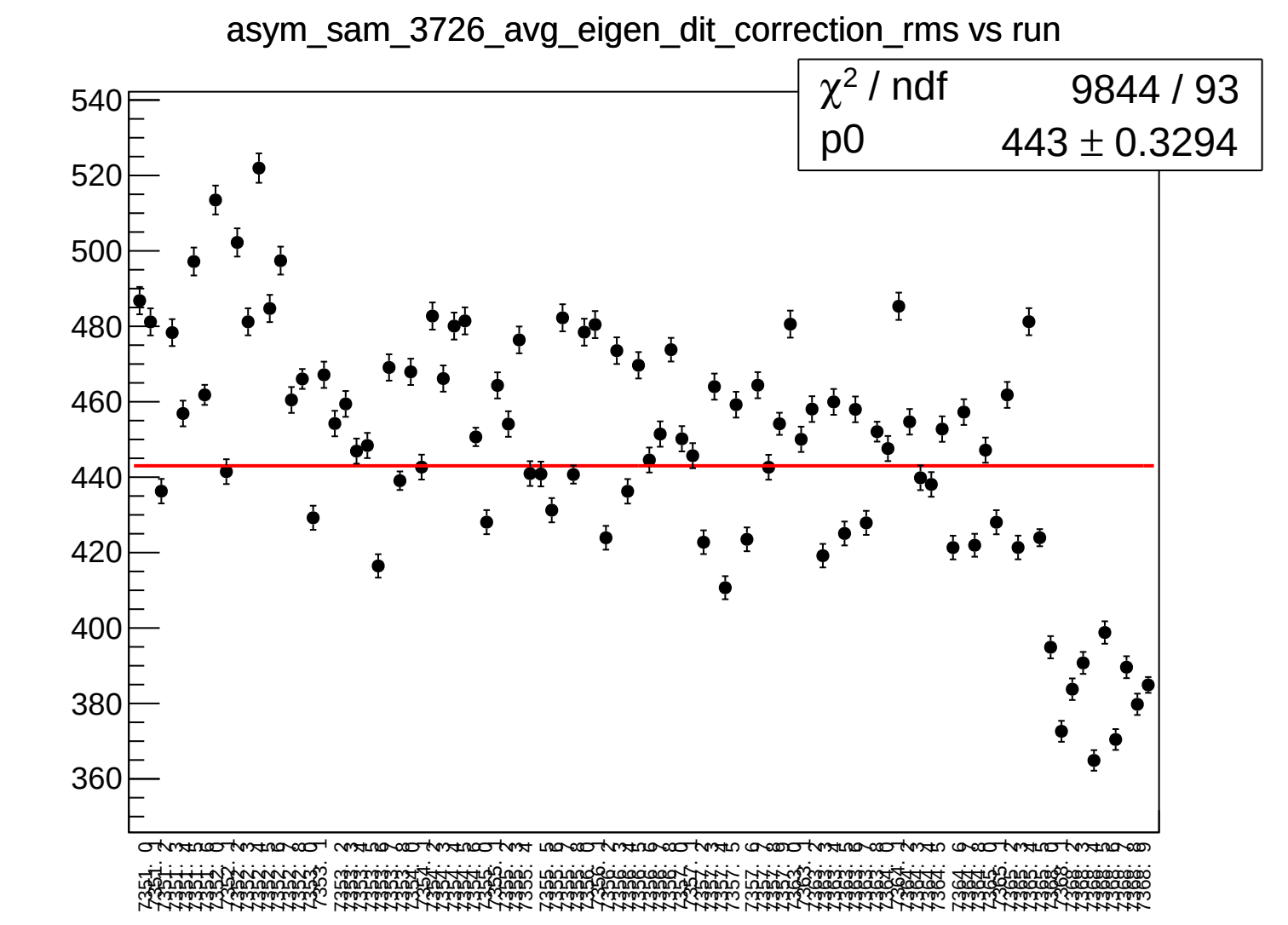

asym_sam_3726_avg_dit_correction_mean vs run
χ² / ndf 269.3 / 93
p0 557.1 ± 465.8
30000
20000
10000
0
−10000
−20000
pull
Entries 94
Mean 567.4
Std Dev 0
4
2
0
−2
−4
pull1D
Entries 94
Mean −0.005043
Std Dev 1.693
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

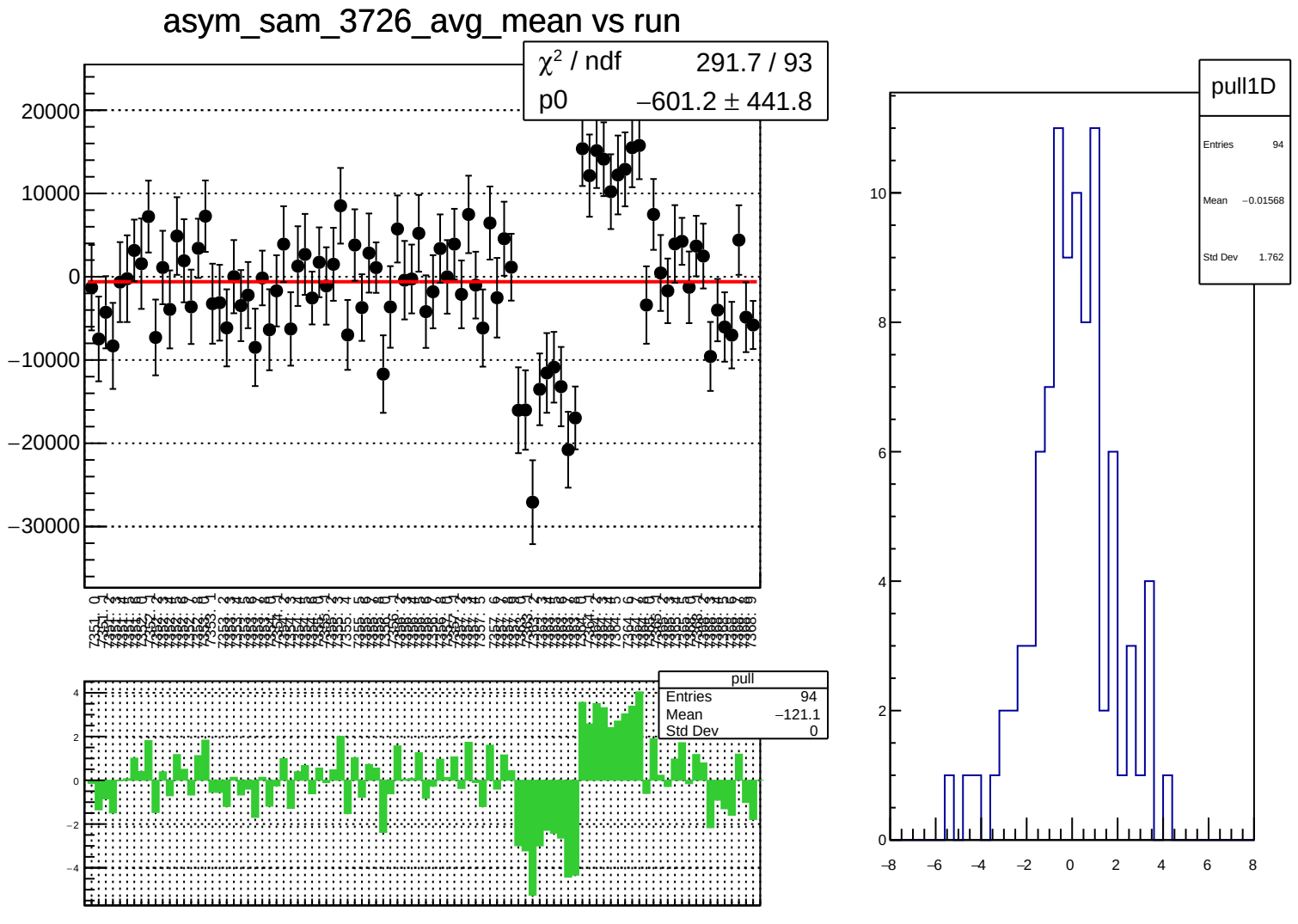

asym_sam_3726_avg_dit_correction_rms vs run
χ^2 / ndf 9844 / 93
p0 443 ± 0.3294
540
520
500
480
460
440
420
400
380
360

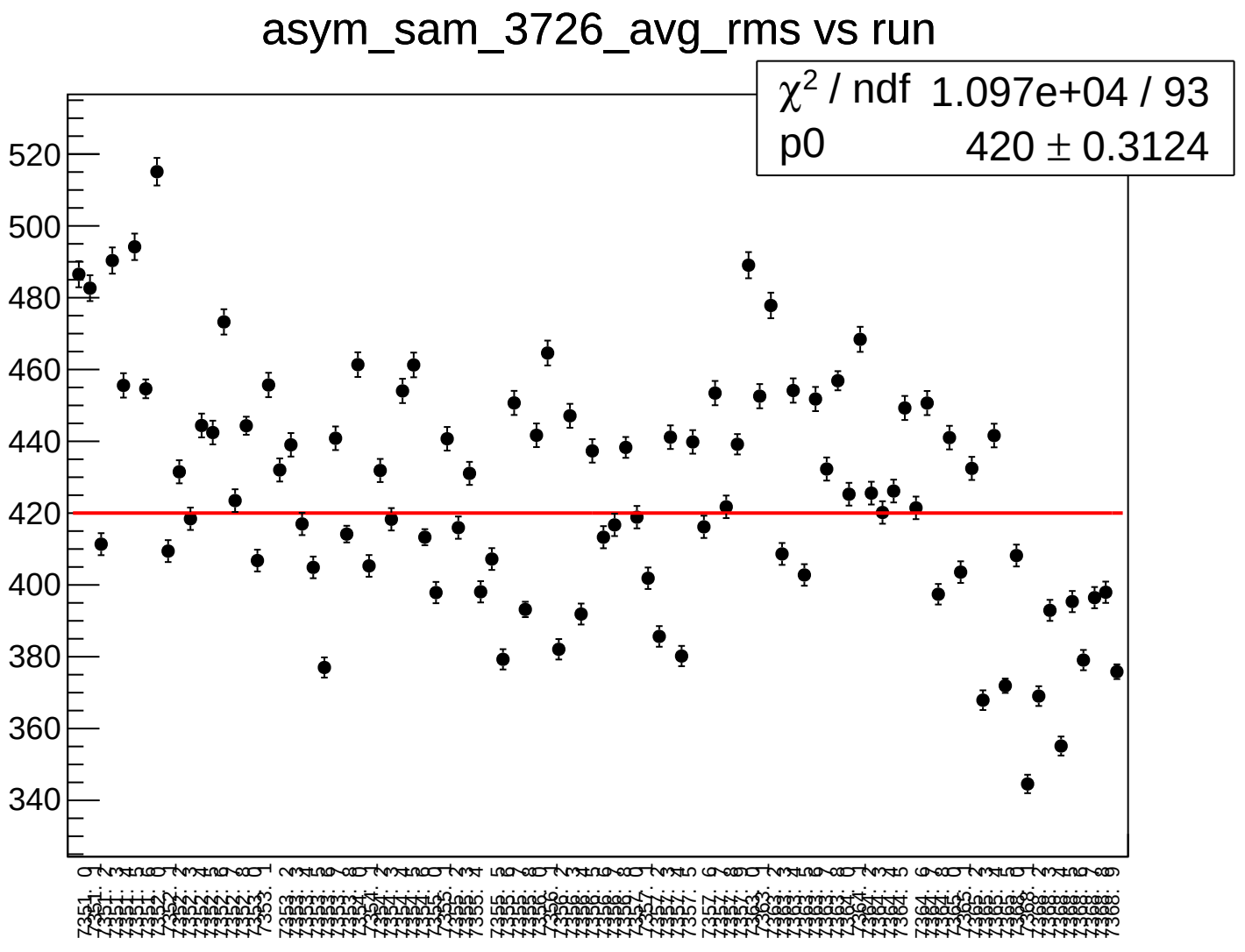

eigen_dit_asym_sam_3726_avg_mean vs run
χ² / ndf 103.6 / 93
p0 −319.1± 99.04
pull
Entries 94
Mean 19
Std Dev 63.15
pull1D
Entries 94
Mean 0.03381
Std Dev 1.049

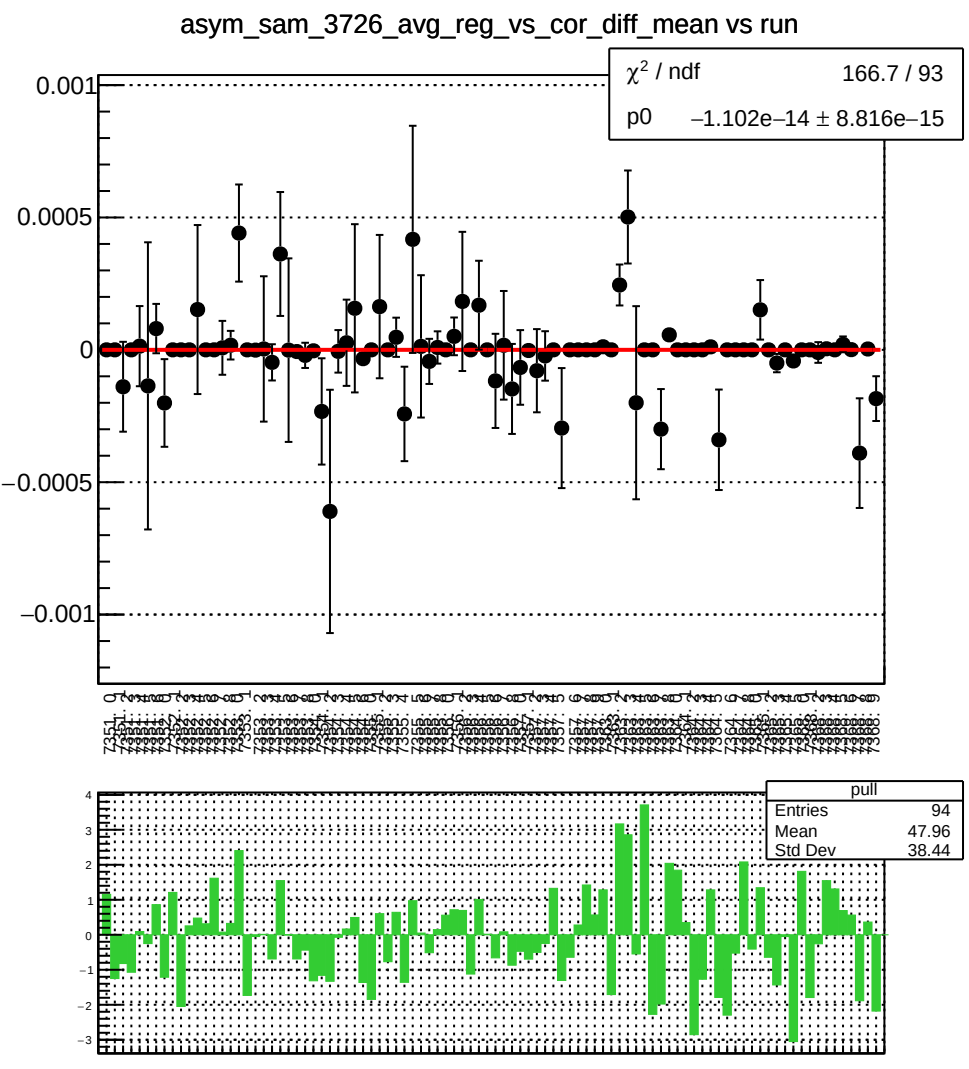

eigen_dit_asym_sam_3726_avg_rms vs run
χ^2 / ndf 4.364e+04 / 93
p0 93.31 ± 0.07003
200
180
160
140
120
100
80
60

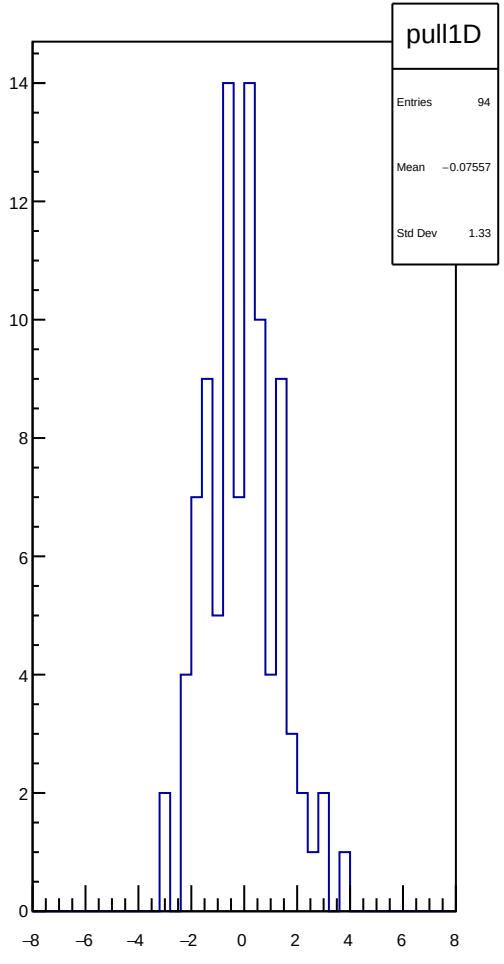

asym_sam_3726_avg_eigen_dit_correction_mean vs run
χ² / ndf 269.3 / 93
p0 557.1 ± 465.8
30000
20000
10000
0
−10000
−20000
pull
Entries 94
Mean 567.4
Std Dev 0
4
2
0
−2
−4
pull1D
Entries 94
Mean −0.005043
Std Dev 1.693
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

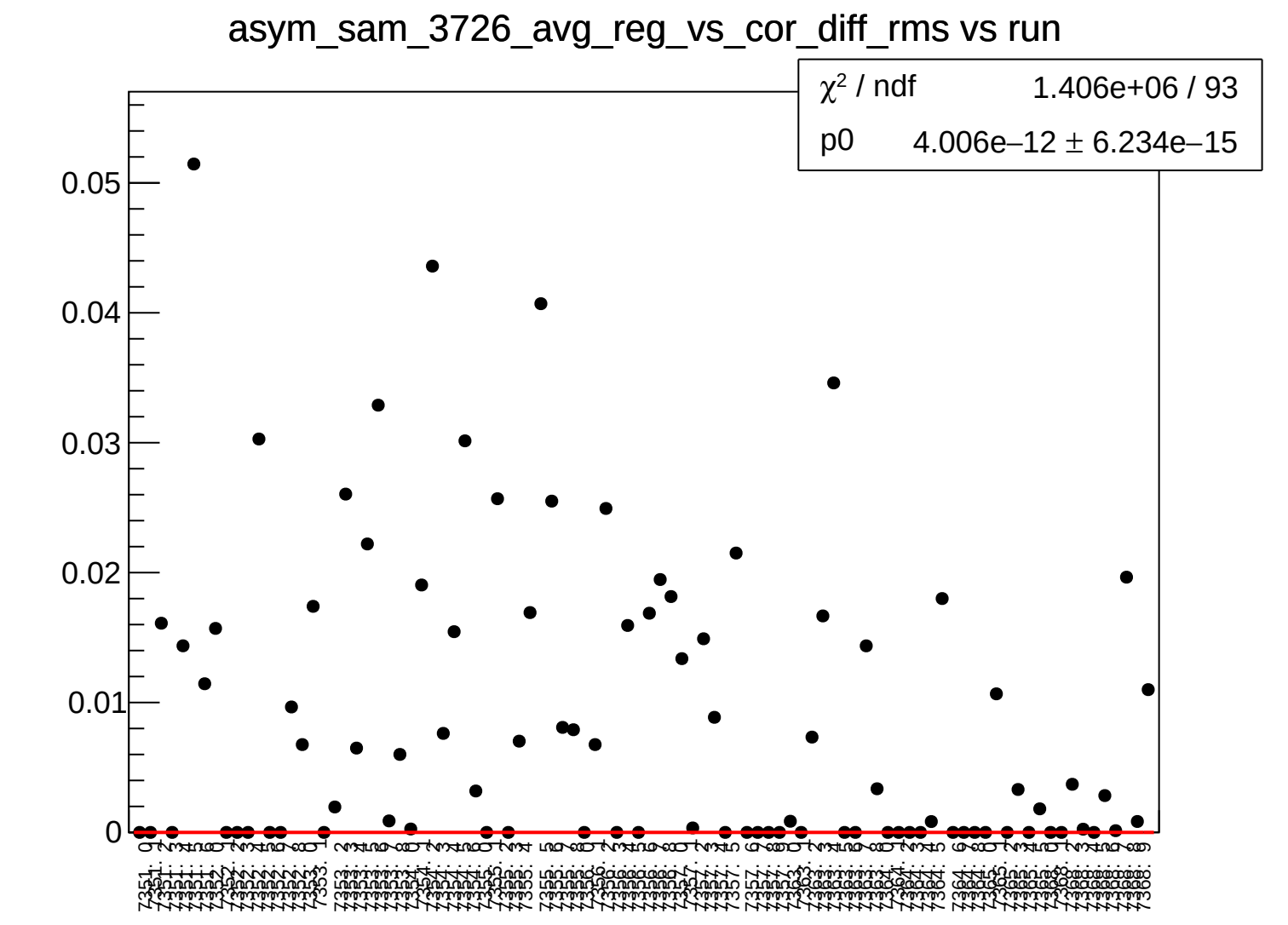

asym_sam_3726_avg_eigen_dit_correction_rms vs run
χ^2 / ndf 9844 / 93
p0 443 ± 0.3294
540
520
500
480
460
440
420
400
380
360

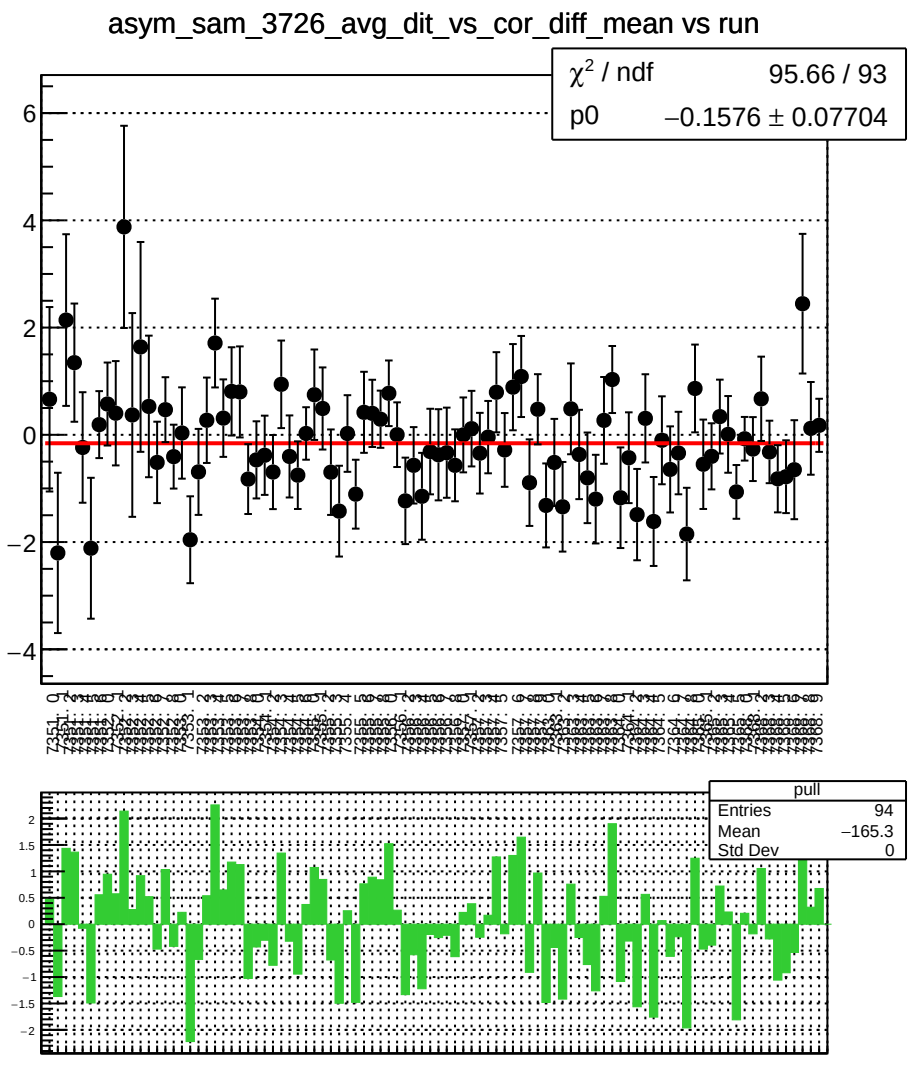

asym_sam_3726_avg_mean vs run
χ² / ndf 291.7 / 93
p0 −601.2 ± 441.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −121.1
Std Dev 0
4
2
0
−2
−4
pull1D
Entries 94
Mean −0.01568
Std Dev 1.762
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

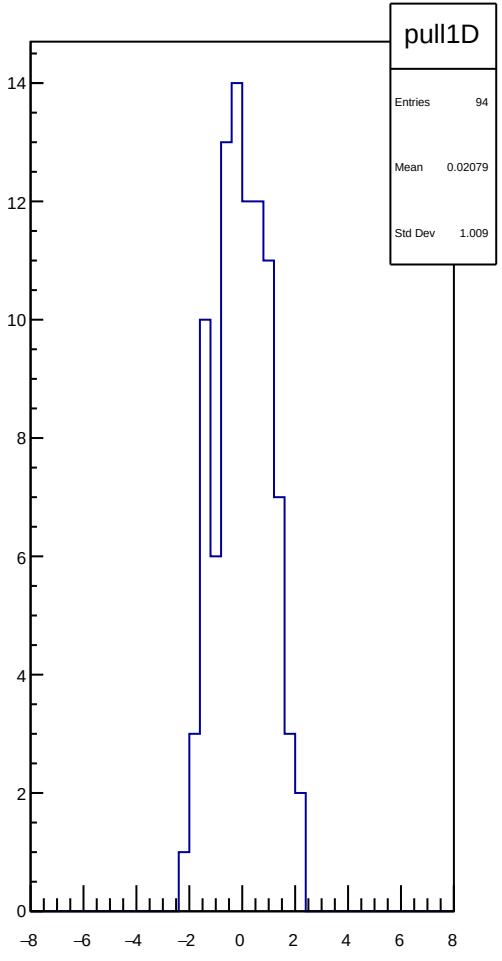

asym_sam_3726_avg_rms vs run
χ^2 / ndf 1.097e+04 / 93
p0 420 ± 0.3124
520
500
480
460
440
420
400
380
360
340

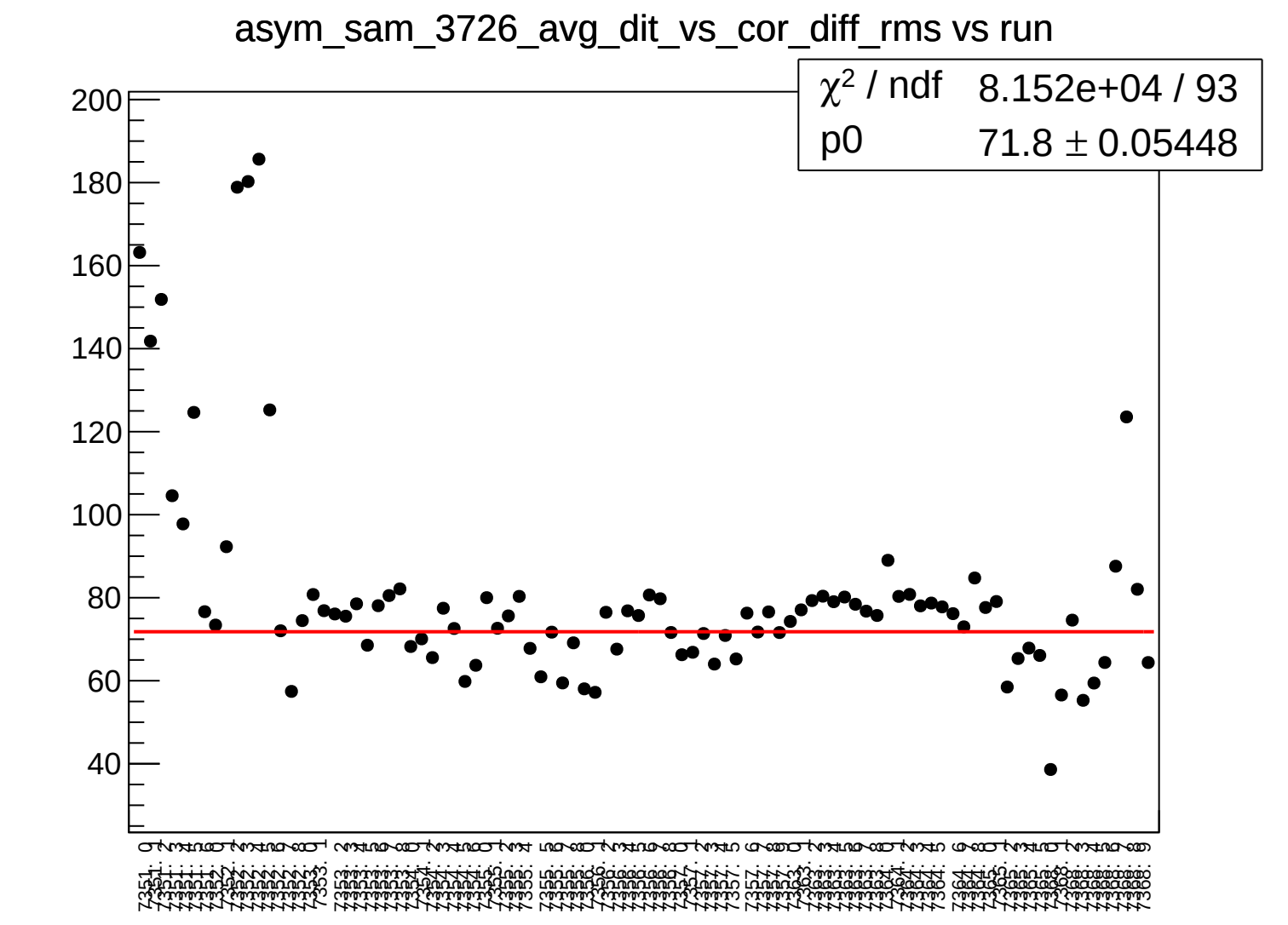

asym_sam_3726_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 166.7 / 93
p0 −1.102e−14 ± 8.816e−15
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 94
Mean 47.96
Std Dev 38.44
4
3
2
1
0
−1
−2
−3

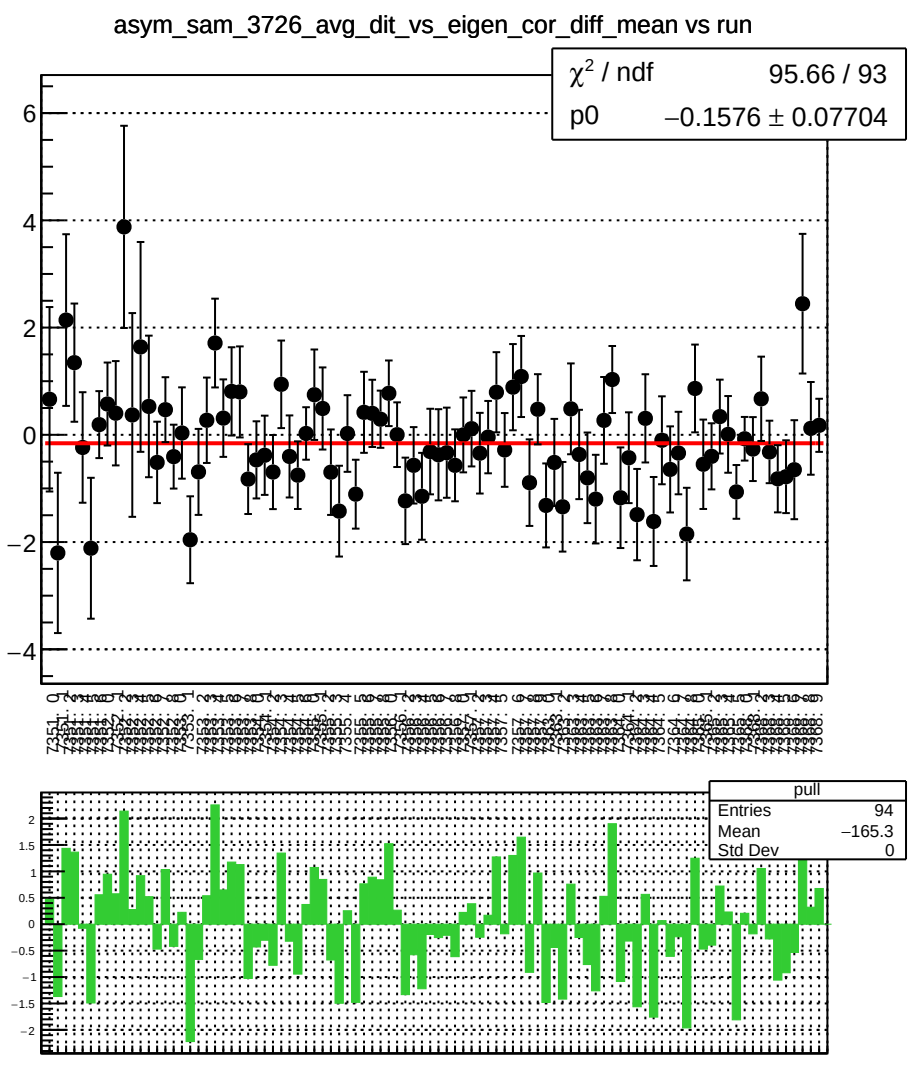

pull1D
Entries 94
Mean −0.07557
Std Dev 1.33
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

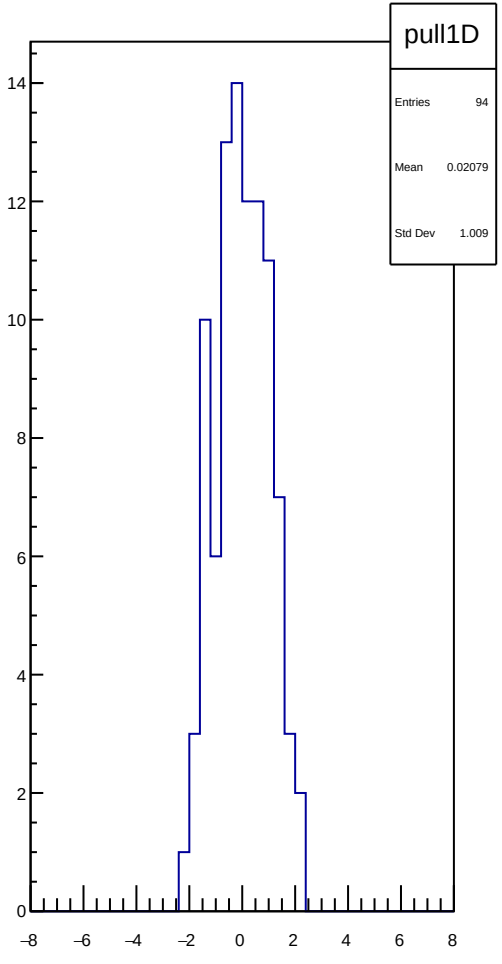

asym_sam_3726_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.406e+06 / 93
p0 4.006e−12 ± 6.234e−15
0.05
0.04
0.03
0.02
0.01
0

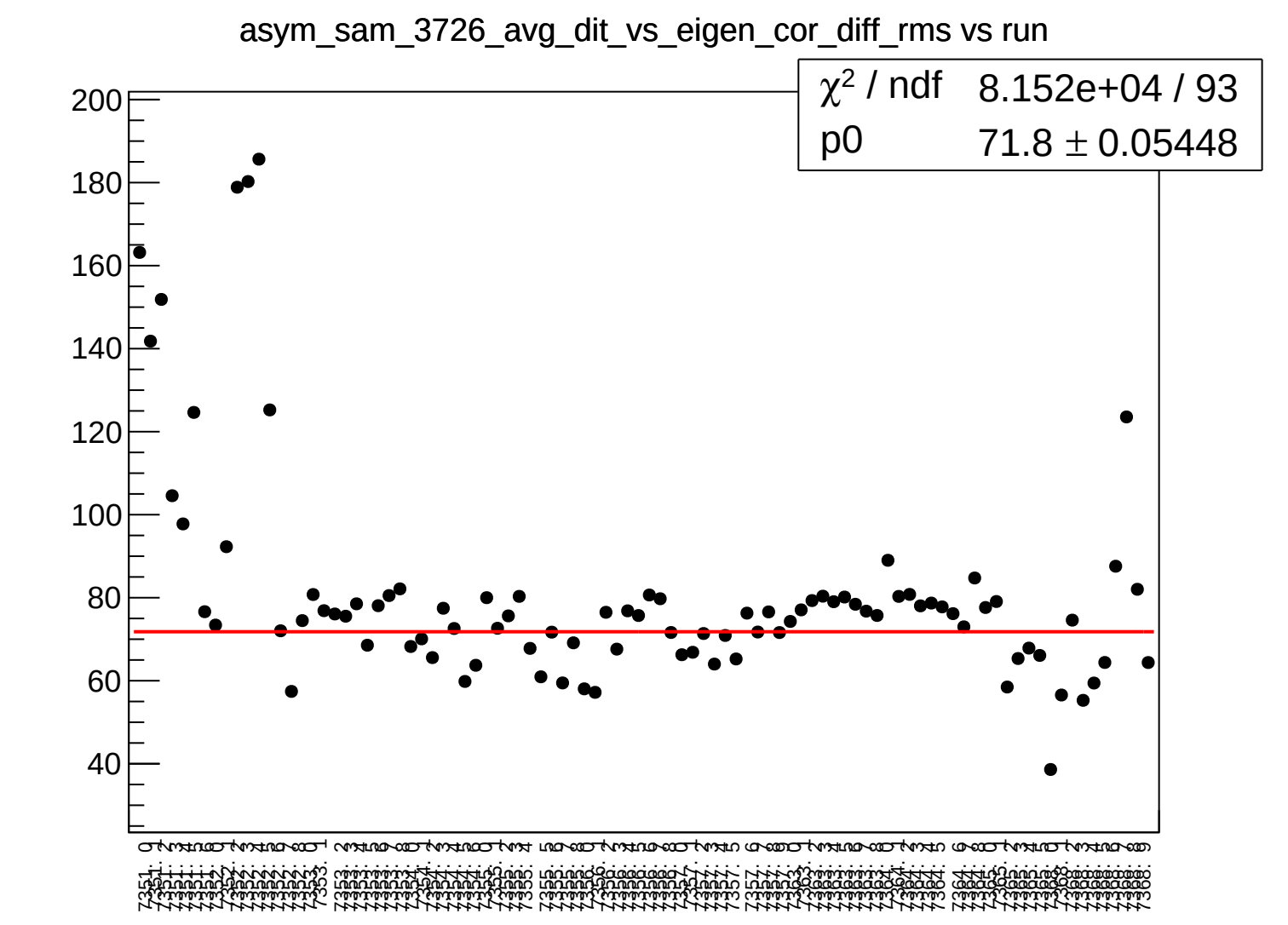

asym_sam_3726_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 95.66 / 93
p0 −0.1576 ± 0.07704
pull
Entries 94
Mean −165.3
Std Dev 0

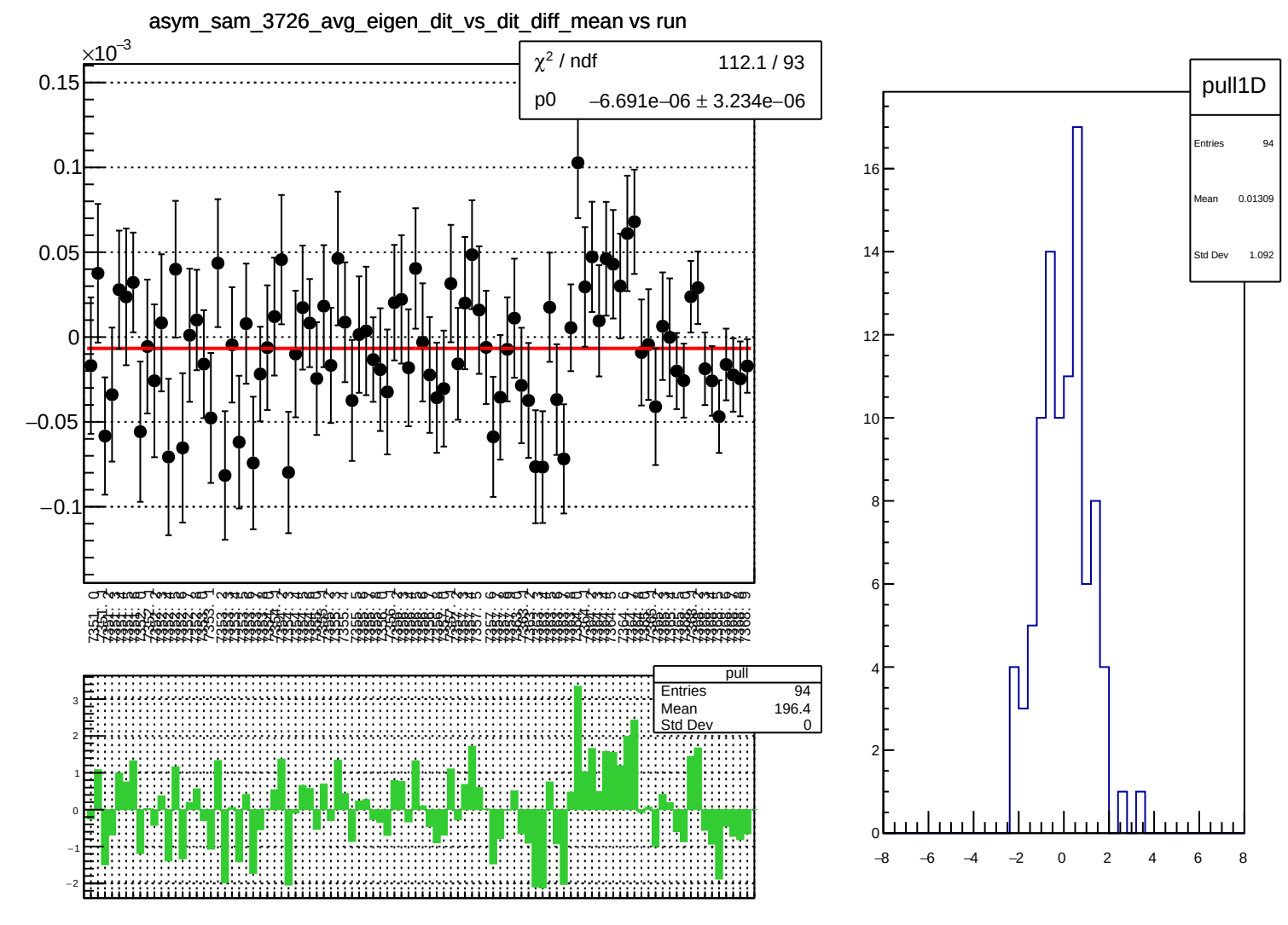

pull1D
Entries 94
Mean 0.02079
Std Dev 1.009

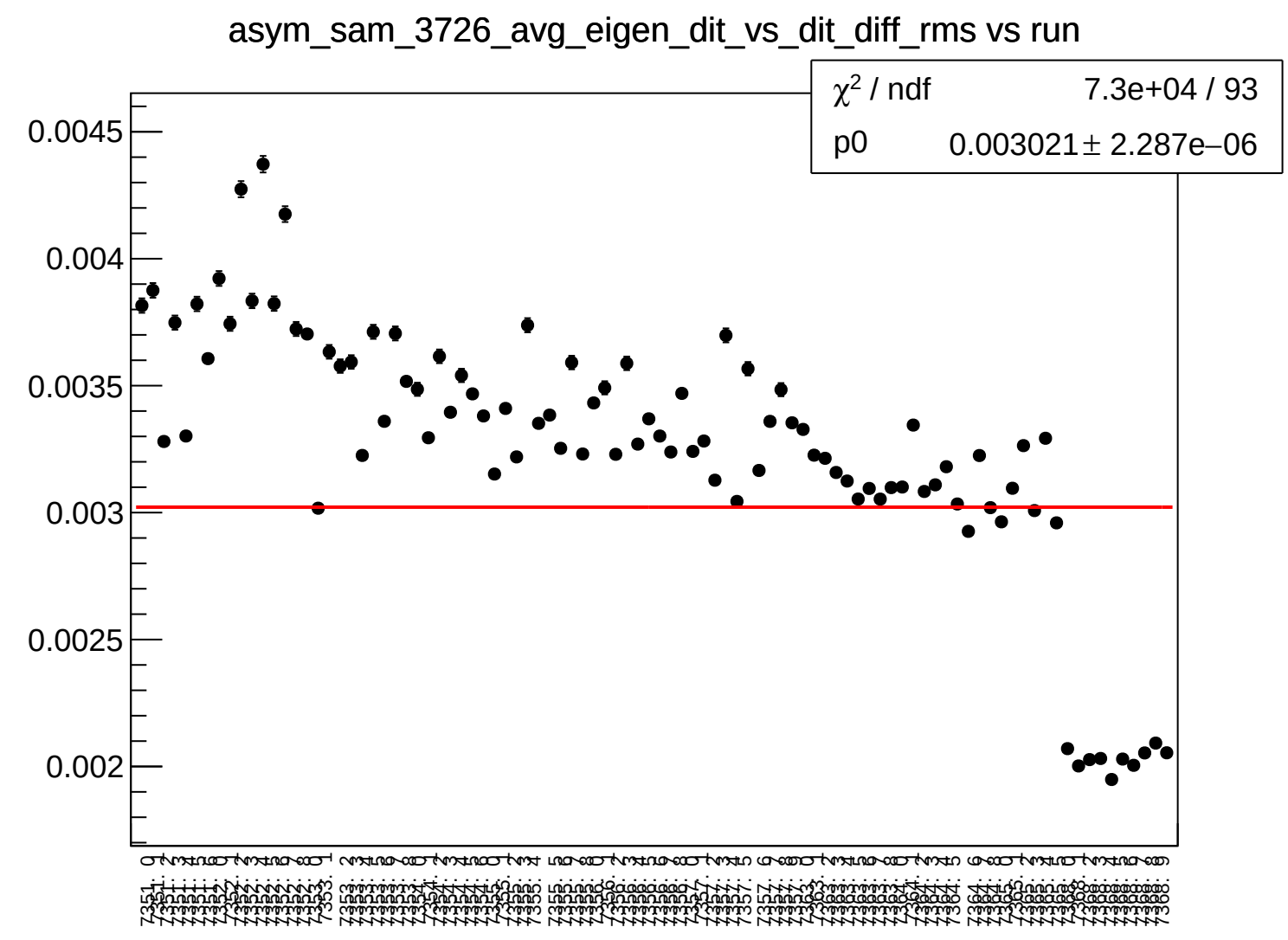

asym_sam_3726_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.152e+04 / 93
p0 71.8 ± 0.05448
200
180
160
140
120
100
80
60
40

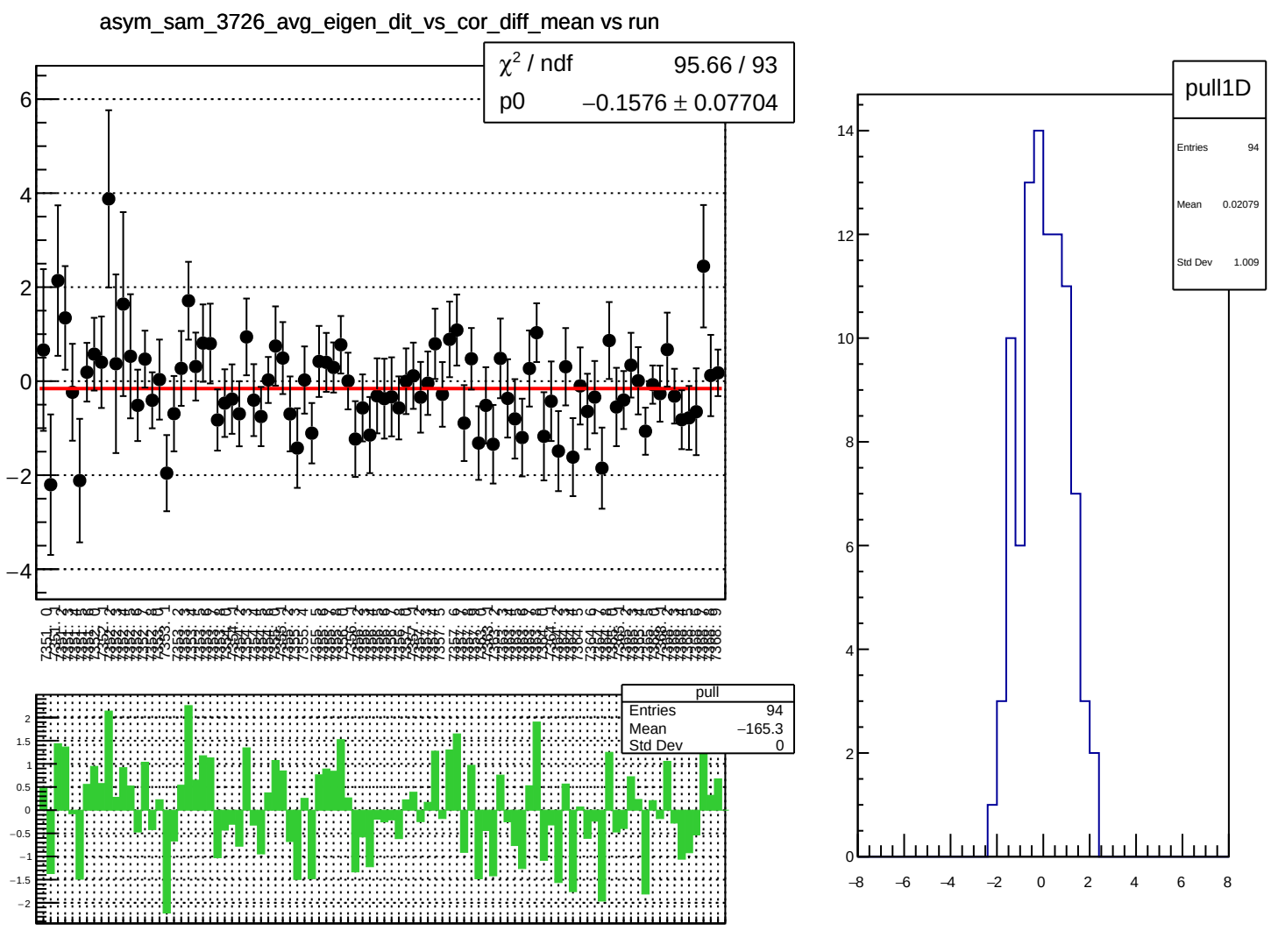

asym_sam_3726_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.66 / 93
p0 −0.1576 ± 0.07704
pull
Entries 94
Mean −165.3
Std Dev 0

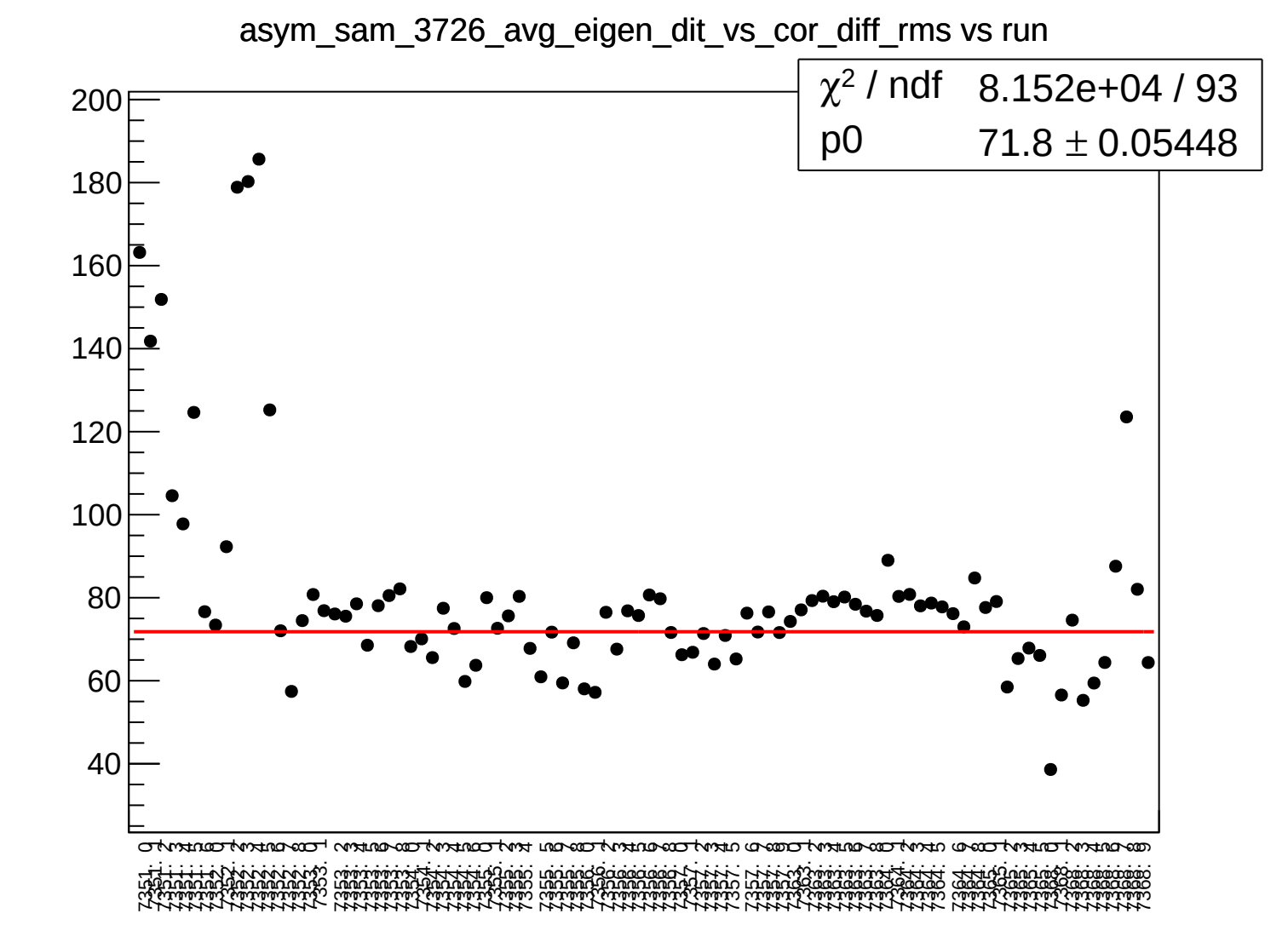

pull1D
Entries 94
Mean 0.02079
Std Dev 1.009

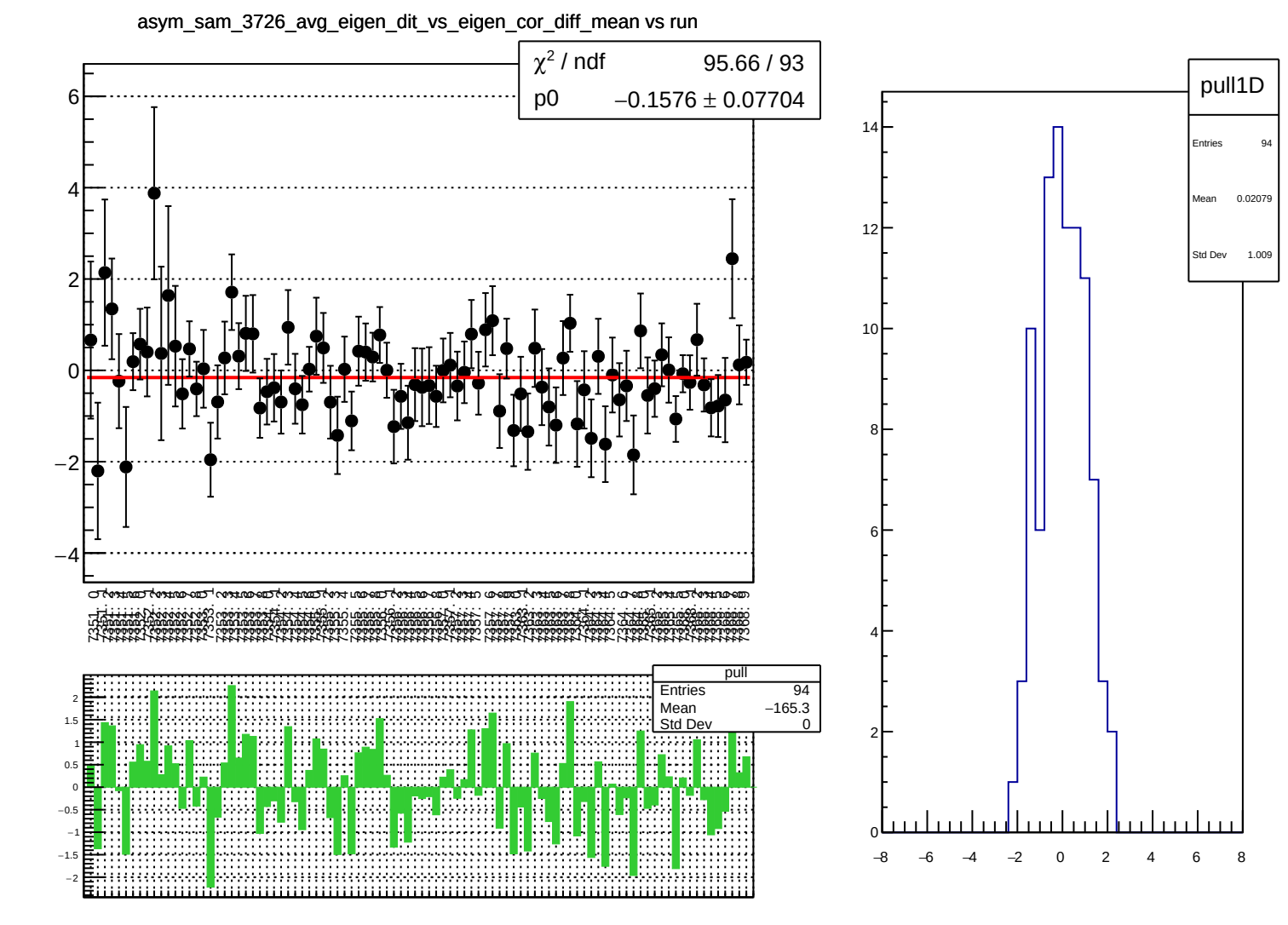

asym_sam_3726_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 8.152e+04 / 93
p0 71.8 ± 0.05448
200
180
160
140
120
100
80
60
40

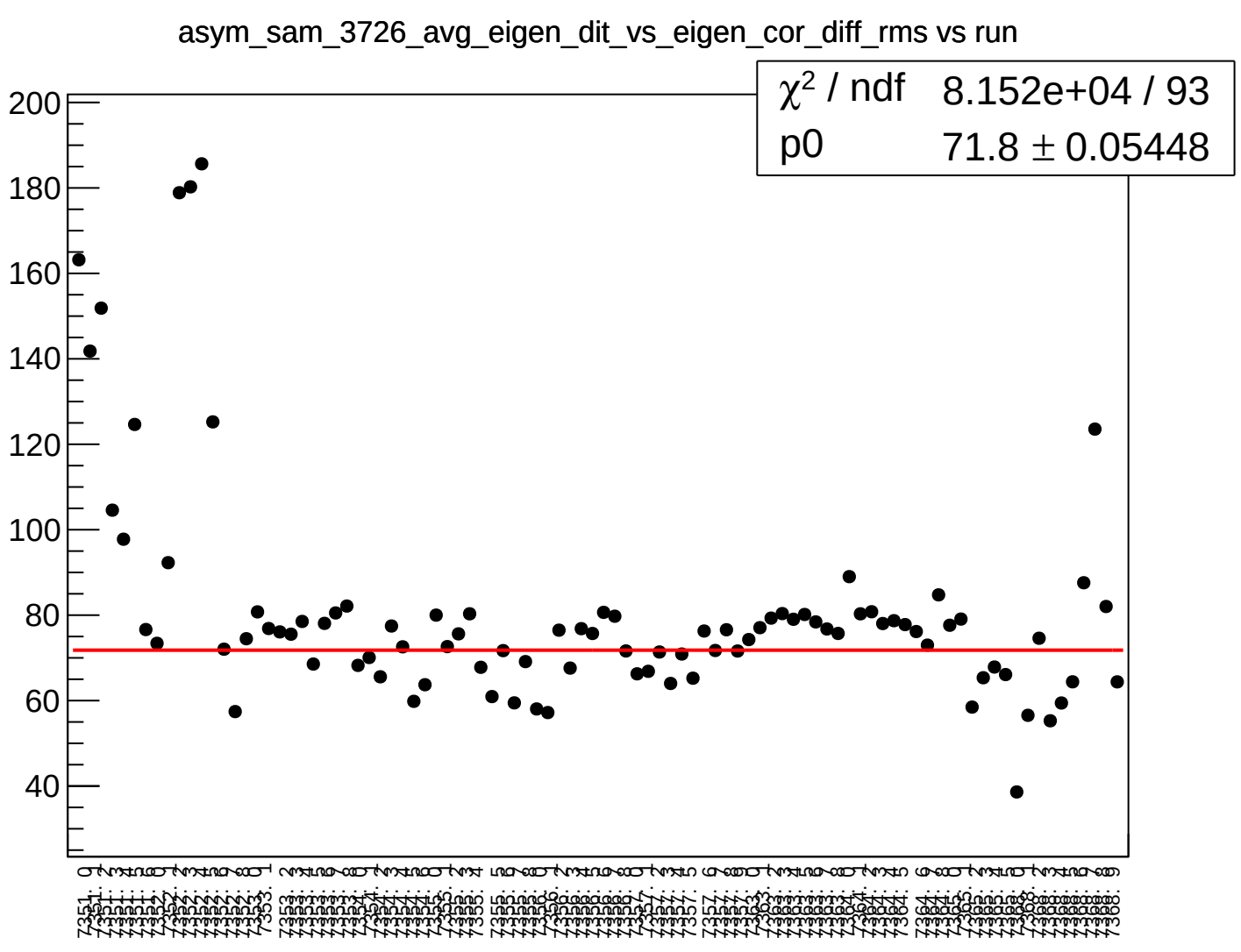

asym_sam_3726_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 112.1 / 93
p0 −6.691e−06 ± 3.234e−06
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 94
Mean 196.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.01309
Std Dev 1.092
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

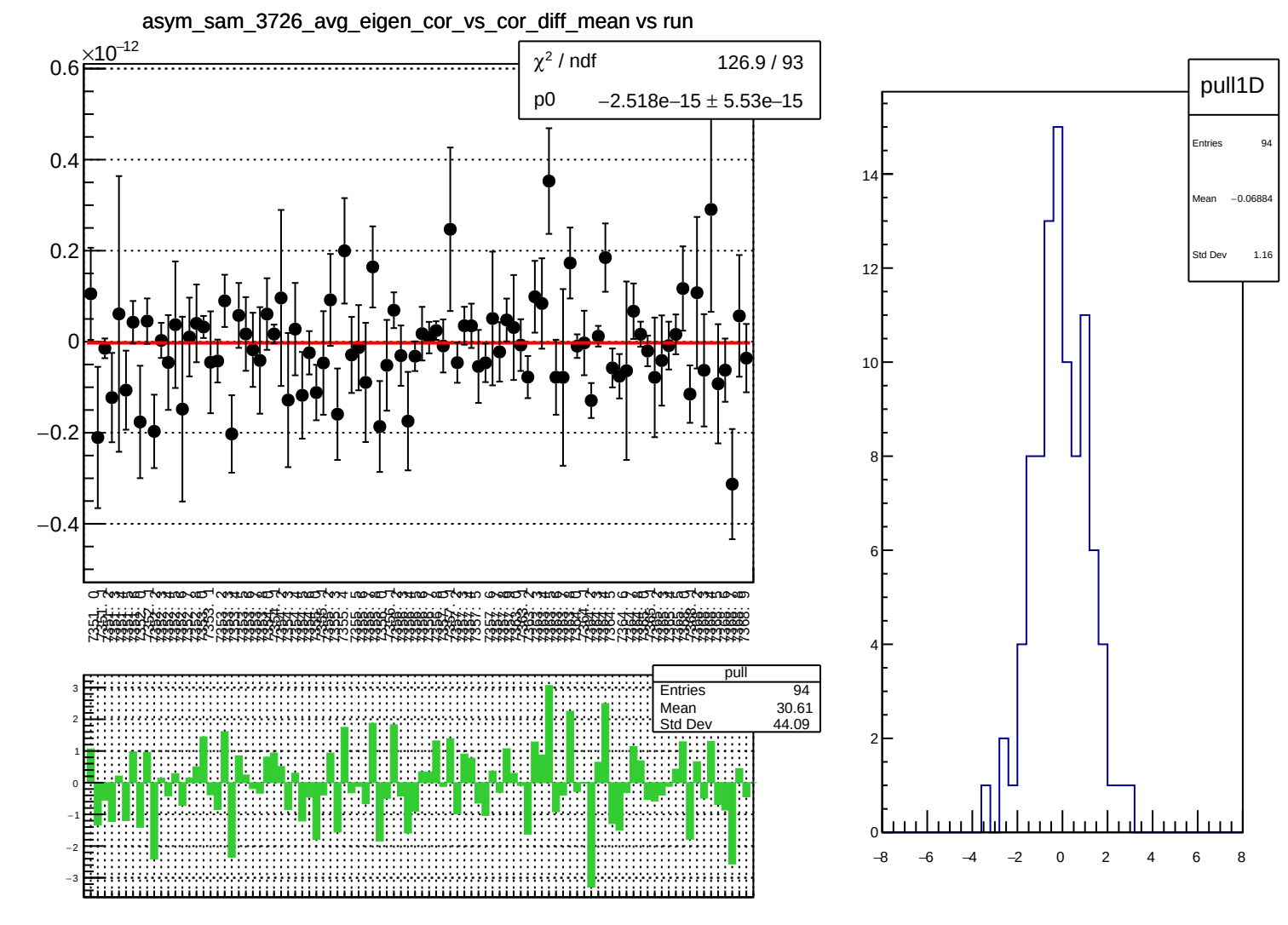

asym_sam_3726_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.3e+04 / 93
p0 0.003021 ± 2.287e−06
0.0045
0.004
0.0035
0.003
0.0025
0.002

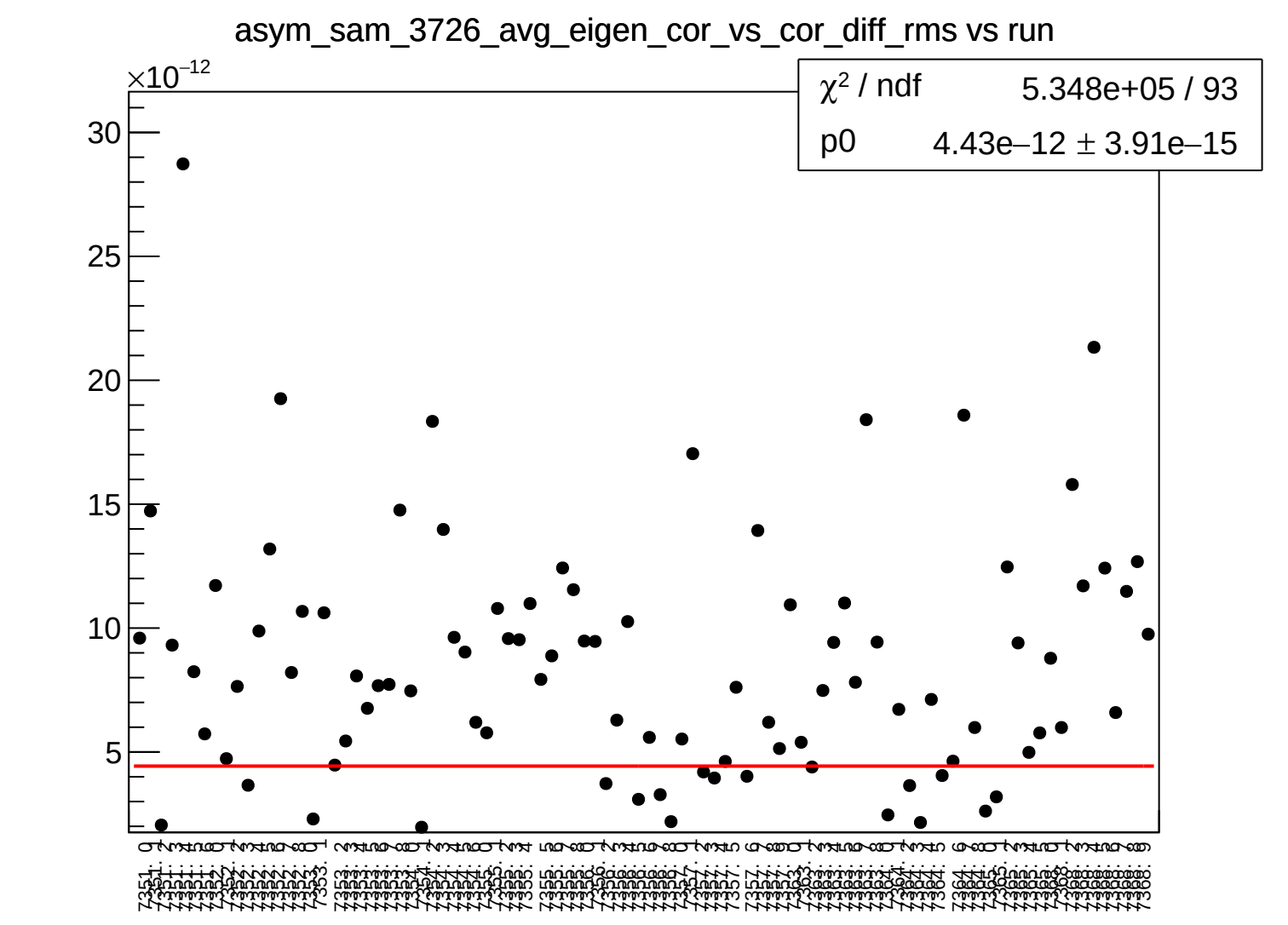

asym_sam_3726_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.66 / 93
p0 −0.1576 ± 0.07704
pull
Entries 94
Mean −165.3
Std Dev 0
pull1D
Entries 94
Mean 0.02079
Std Dev 1.009

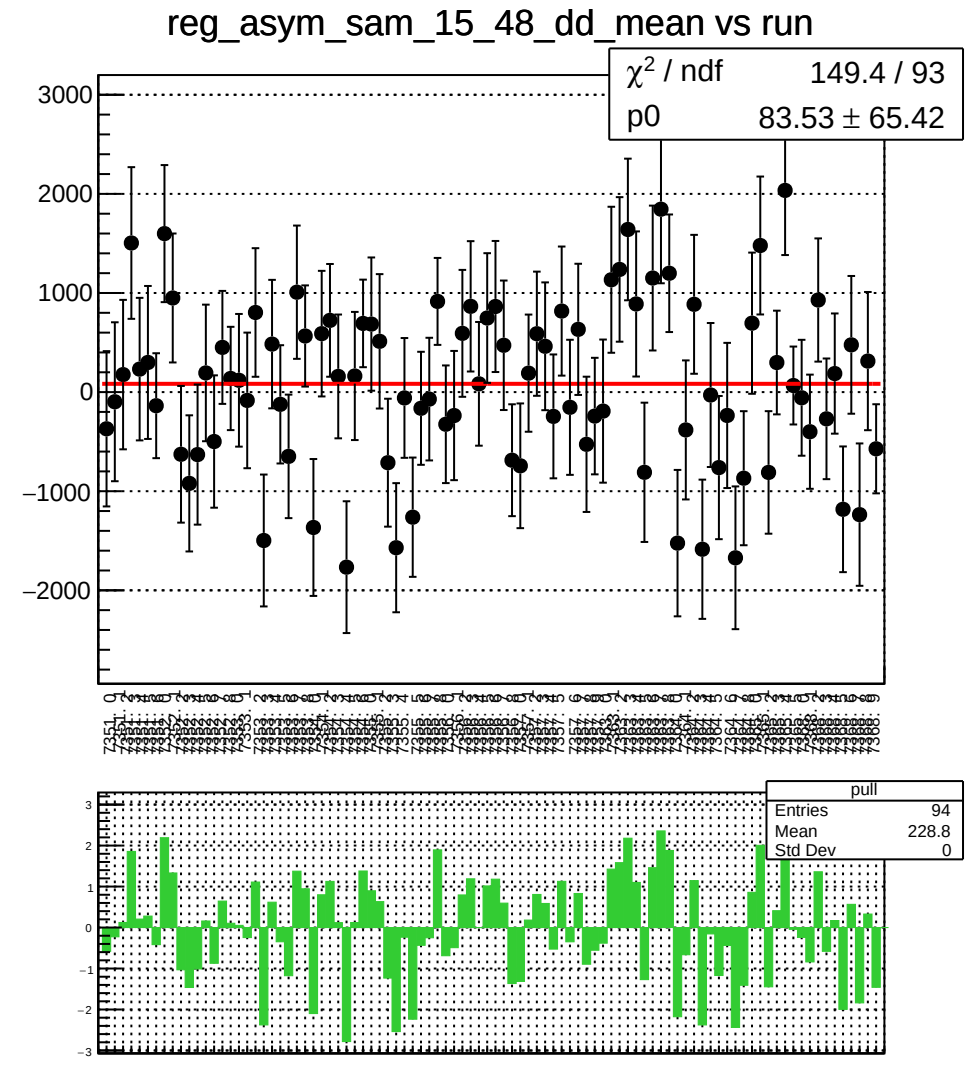

asym_sam_3726_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 8.152e+04 / 93
p0 71.8 ± 0.05448
200
180
160
140
120
100
80
60
40

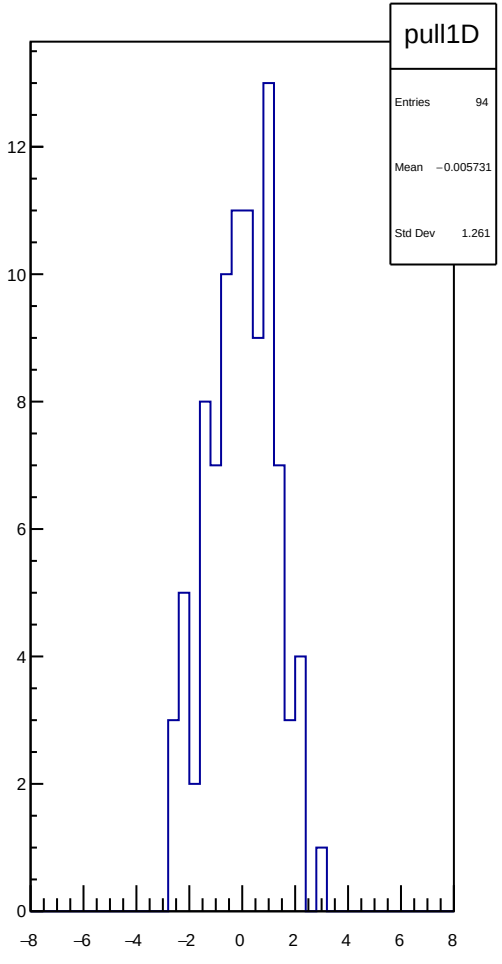

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.66 / 93
p0 −0.1576 ± 0.07704
pull
Entries 94
Mean −165.3
Std Dev 0
pull1D
Entries 94
Mean 0.02079
Std Dev 1.009


asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.152e+04 / 93
p0 71.8 ± 0.05448
200
180
160
140
120
100
80
60
40

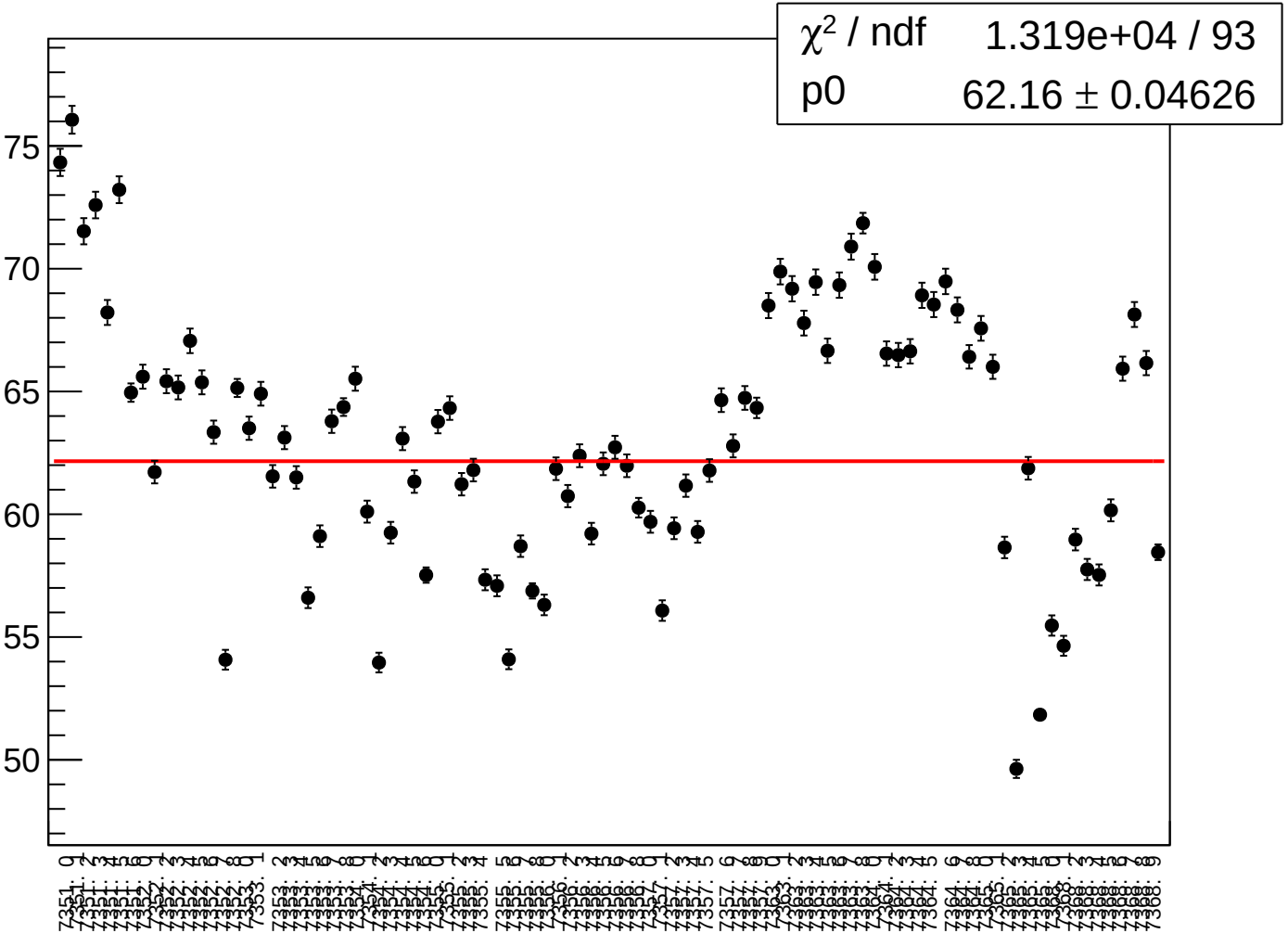

asym_sam_3726_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 126.9 / 93
p0 −2.518e−15 ± 5.53e−15
pull
Entries 94
Mean 30.61
Std Dev 44.09
pull1D
Entries 94
Mean −0.06884
Std Dev 1.16

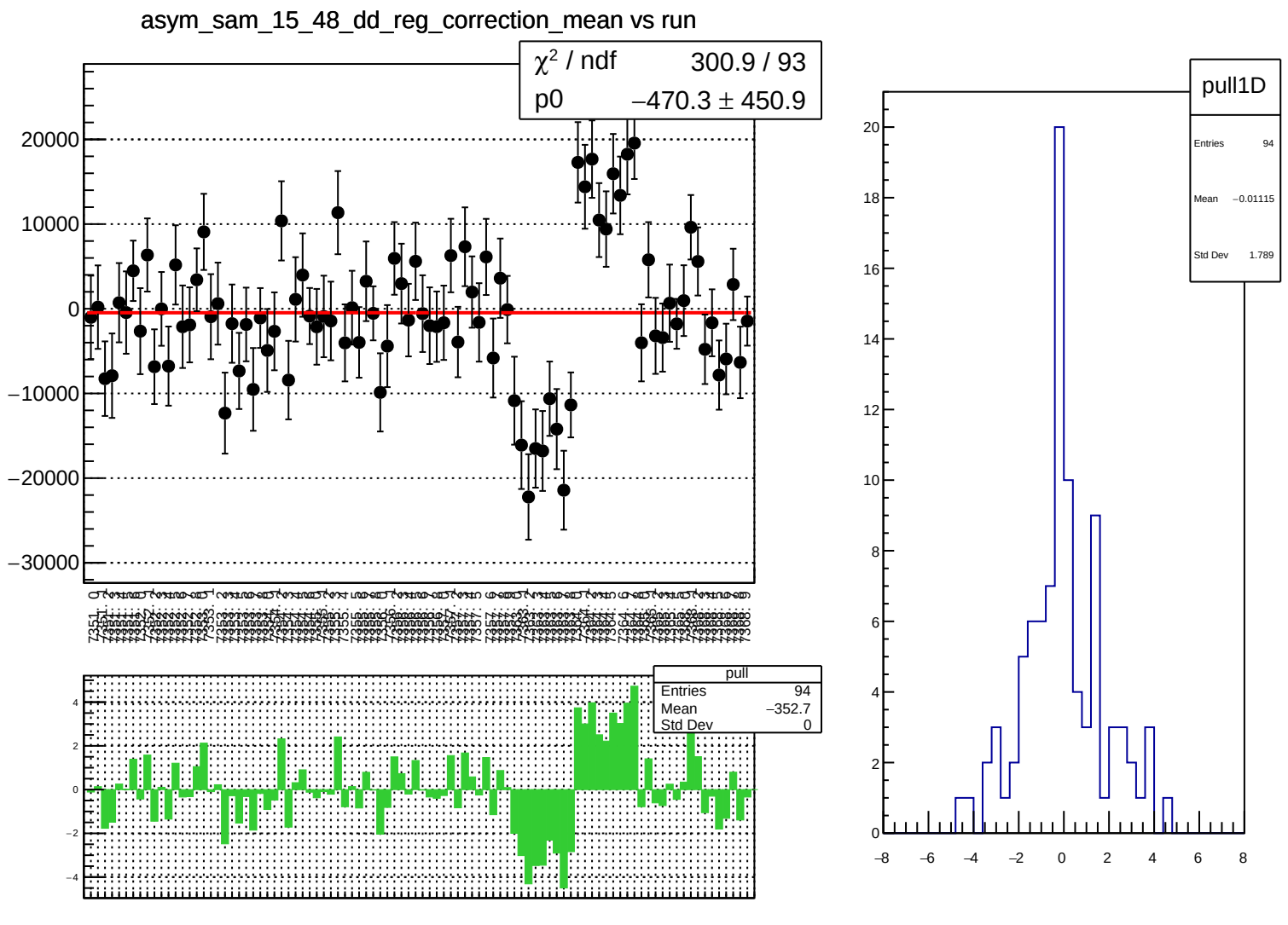

asym_sam_3726_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.348e+05 / 93
p0 4.43e−12 ± 3.91e−15
30
25
20
15
10
5

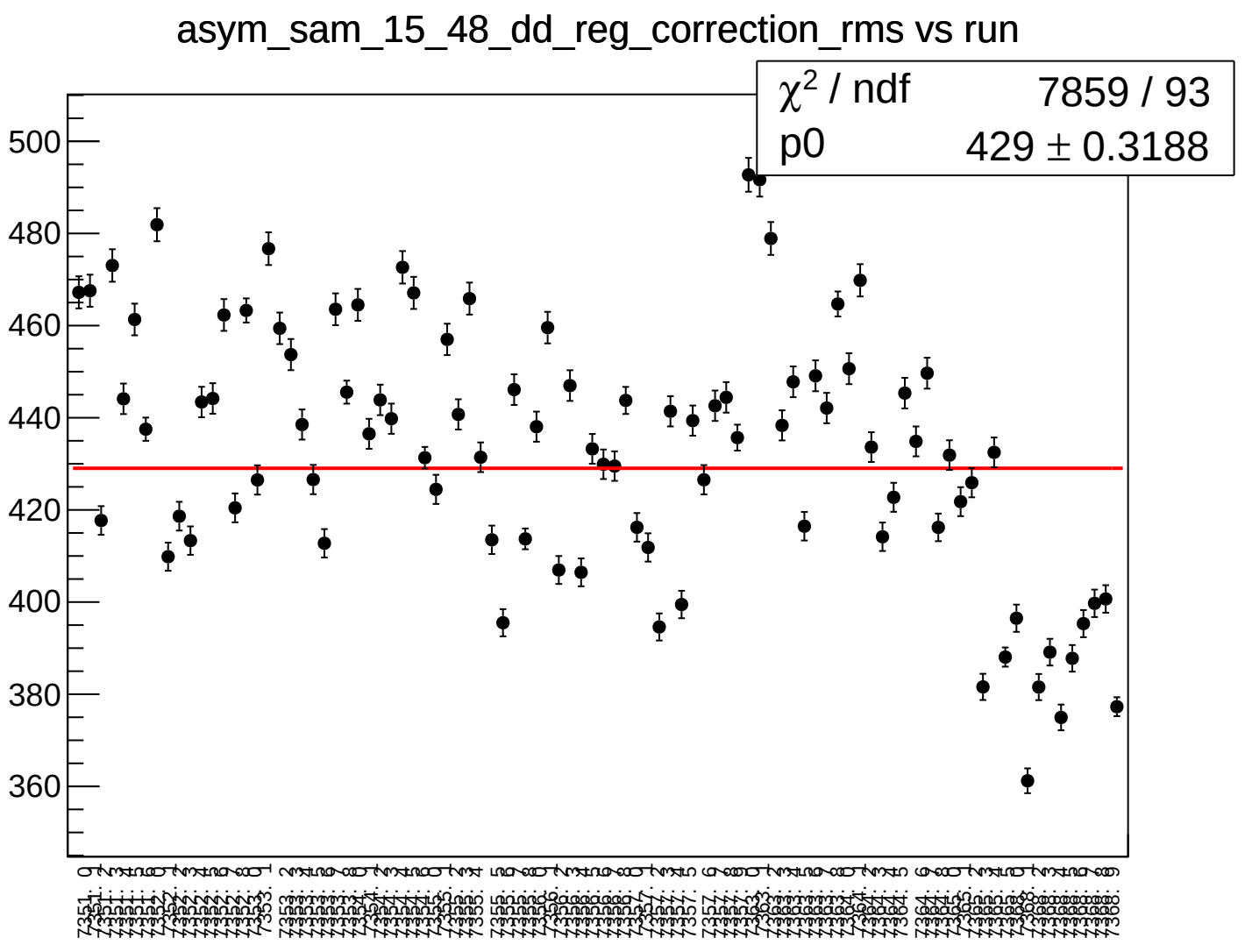

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 149.4 / 93
p0 83.53 ± 65.42
3000
2000
1000
0
−1000
−2000
pull
Entries 94
Mean 228.8
Std Dev 0
3
2
1
0
−1
−2
−3

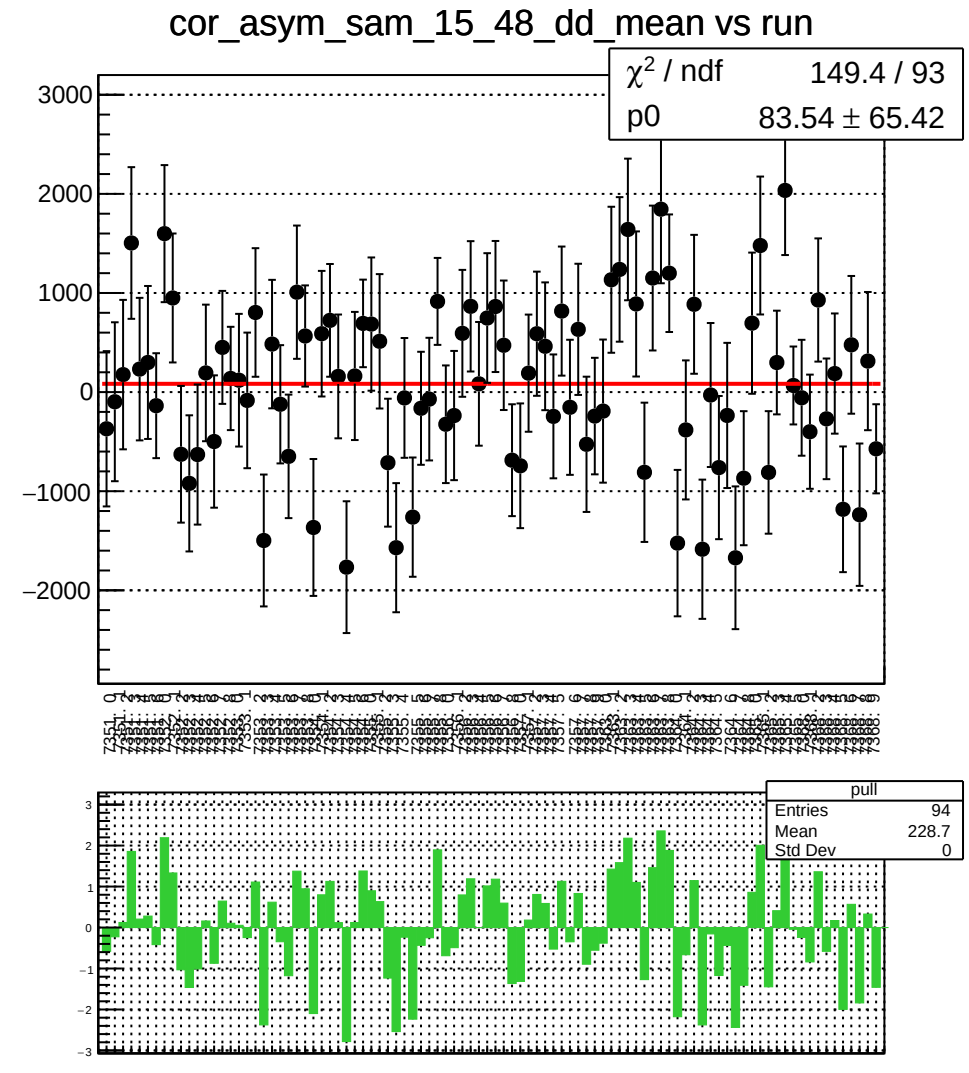

pull1D
Entries 94
Mean −0.005731
Std Dev 1.261
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

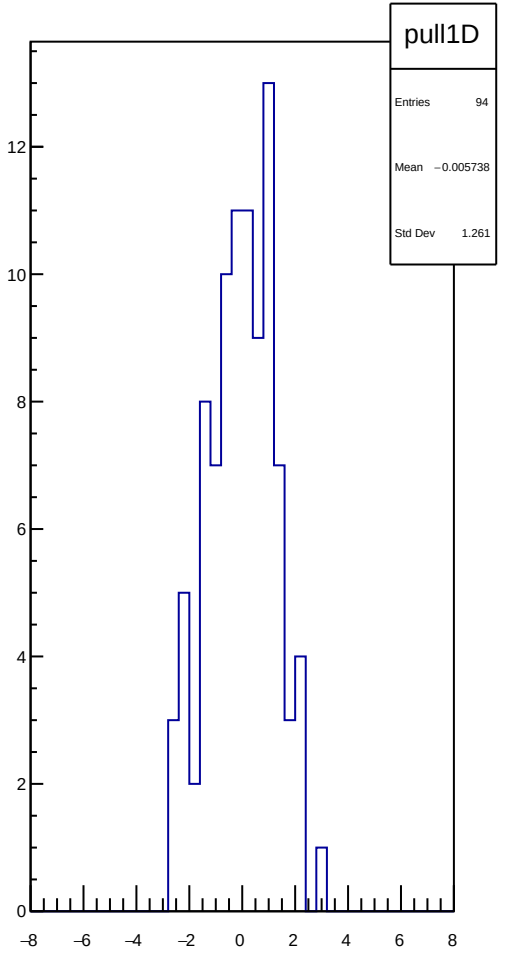
reg_asym_sam_15_48_dd_rms vs run

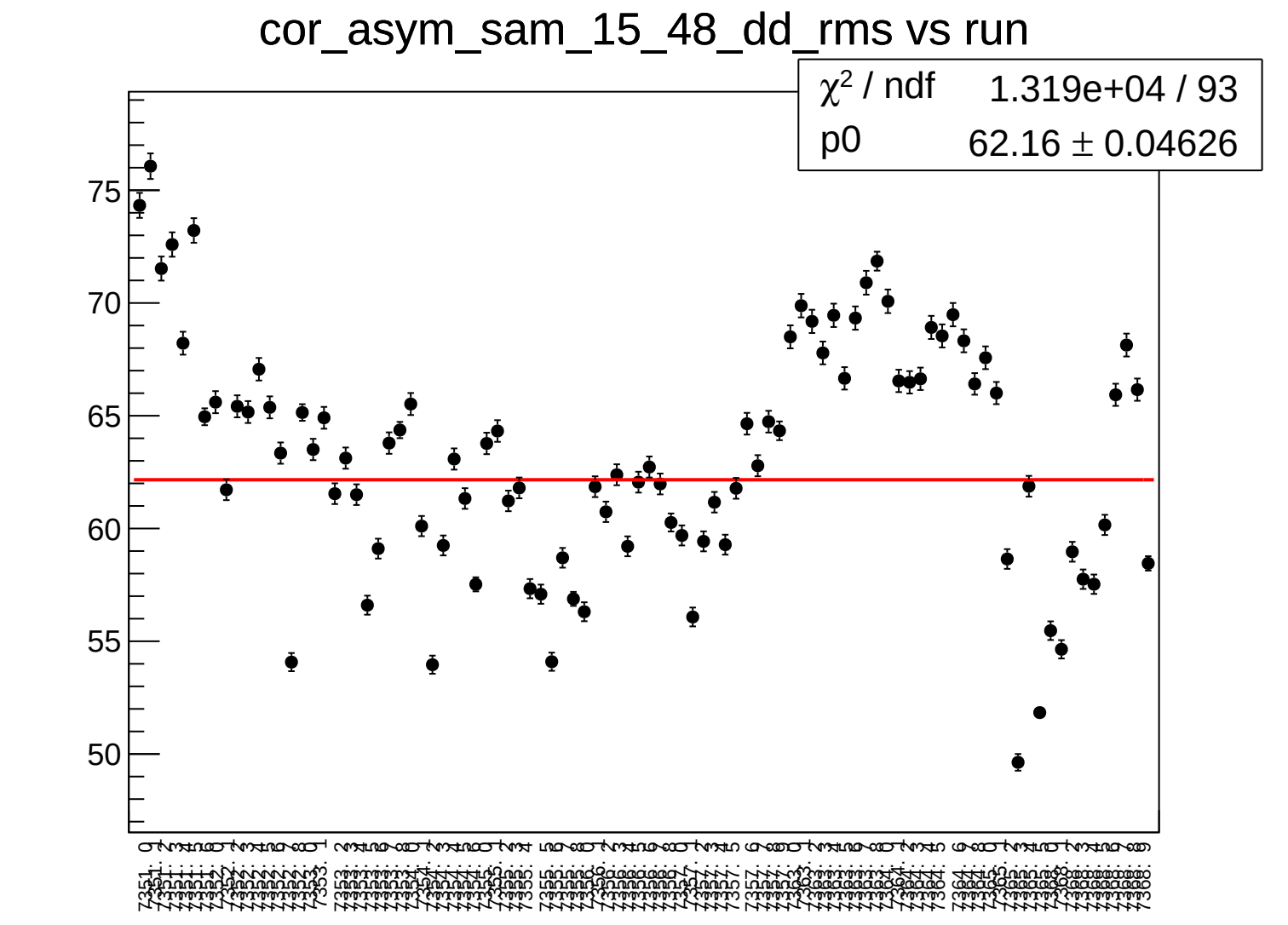


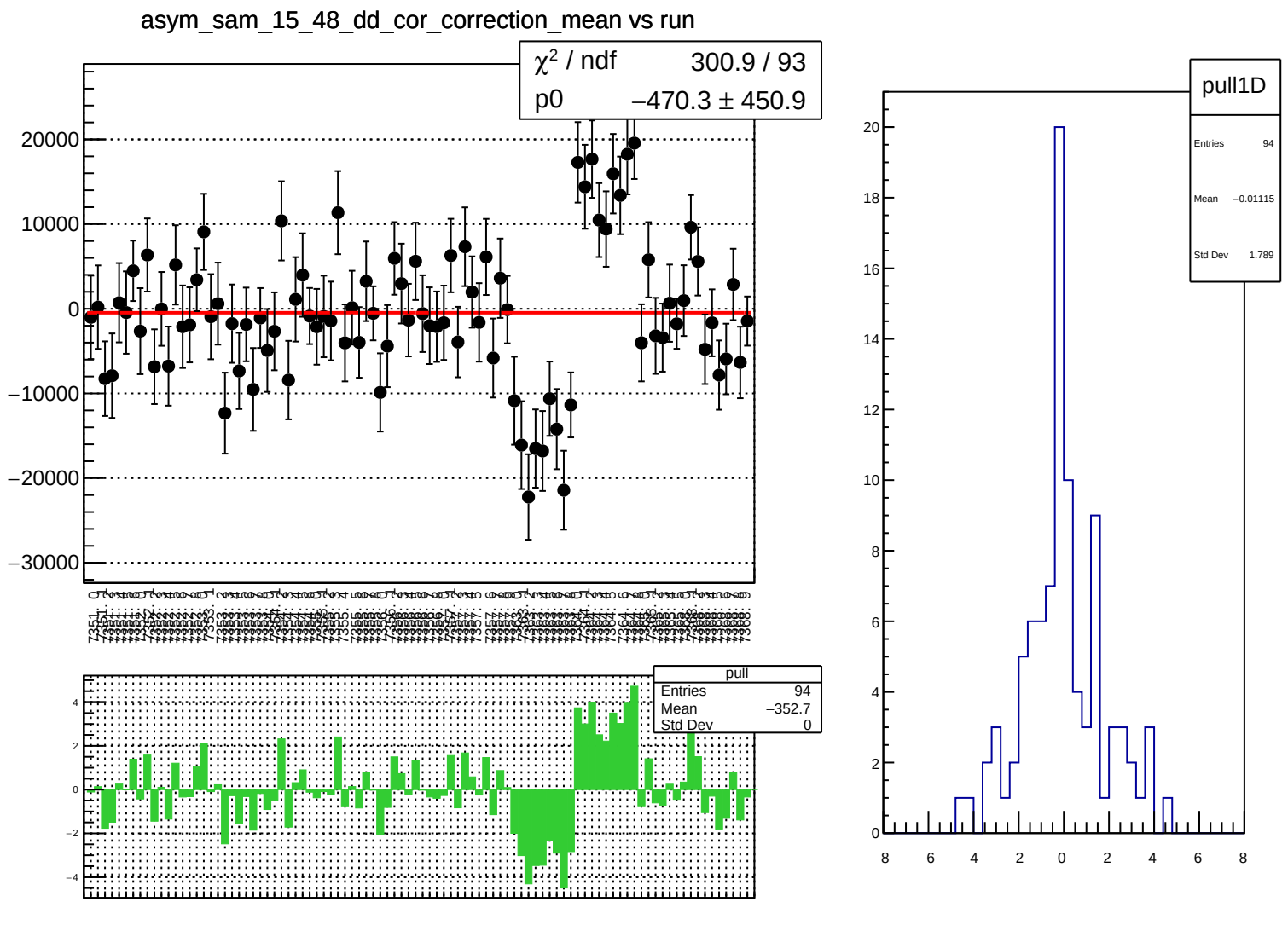

asym_sam_15_48_dd_reg_correction_mean vs run
χ² / ndf 300.9 / 93
p0 −470.3 ± 450.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −352.7
Std Dev 0
4
2
0
−2
−4
pull1D
Entries 94
Mean −0.01115
Std Dev 1.789
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

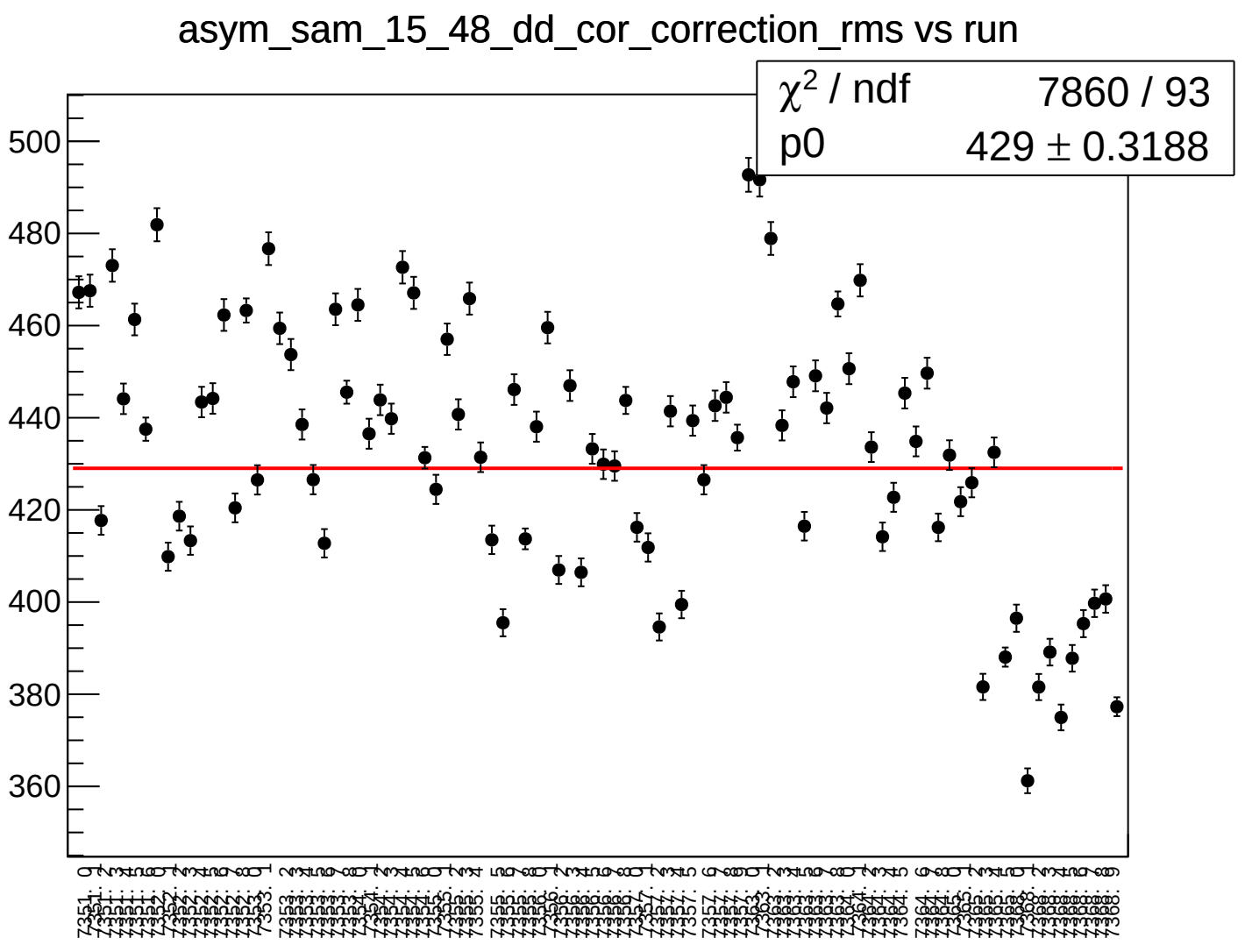

asym_sam_15_48_dd_reg_correction_rms vs run
χ² / ndf 7859 / 93
p0 429 ± 0.3188
500
480
460
440
420
400
380
360

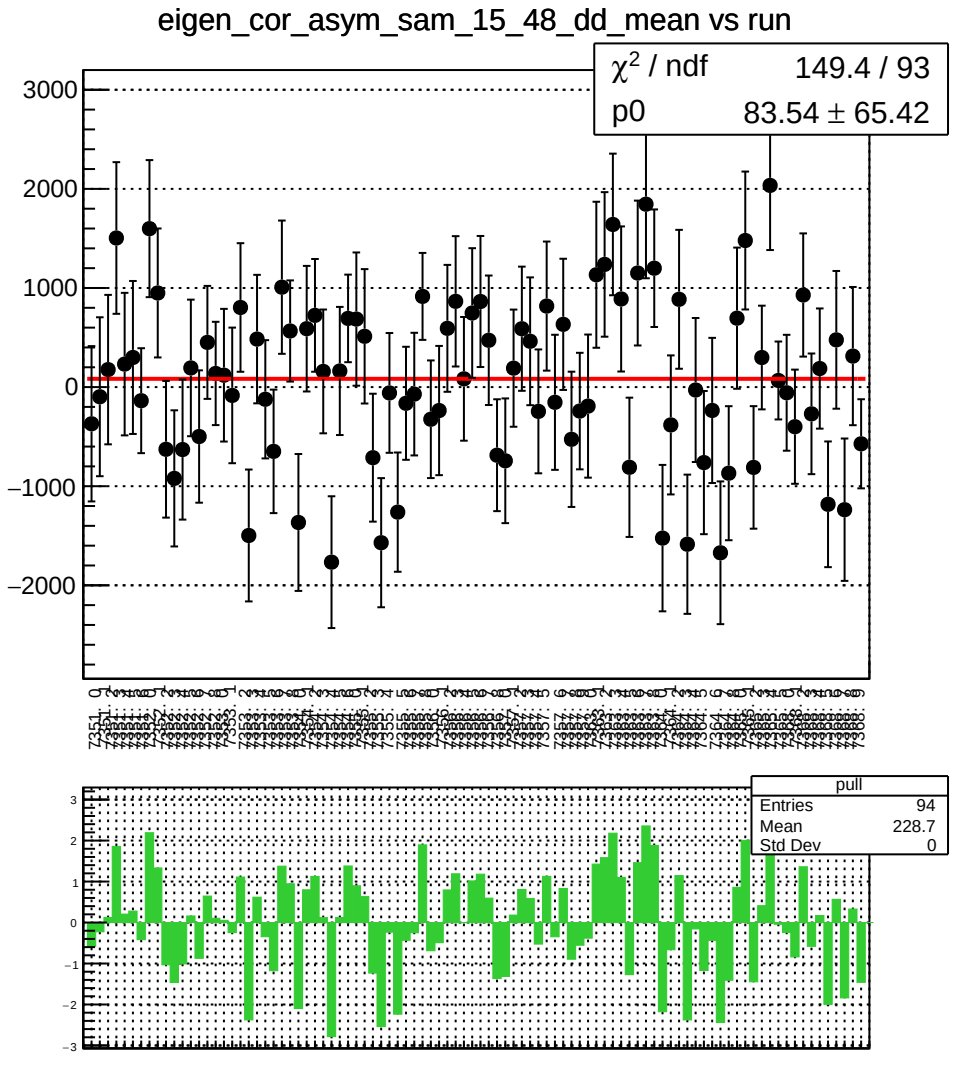

cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 149.4 / 93
p0 83.54 ± 65.42
3000
2000
1000
0
−1000
−2000
pull
Entries 94
Mean 228.7
Std Dev 0
3
2
1
0
−1
−2
−3

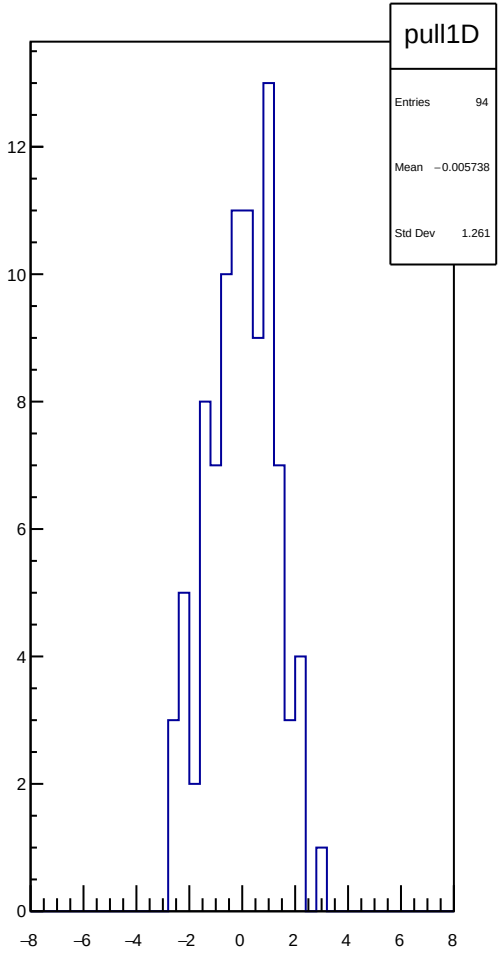

pull1D
Entries 94
Mean −0.005738
Std Dev 1.261
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

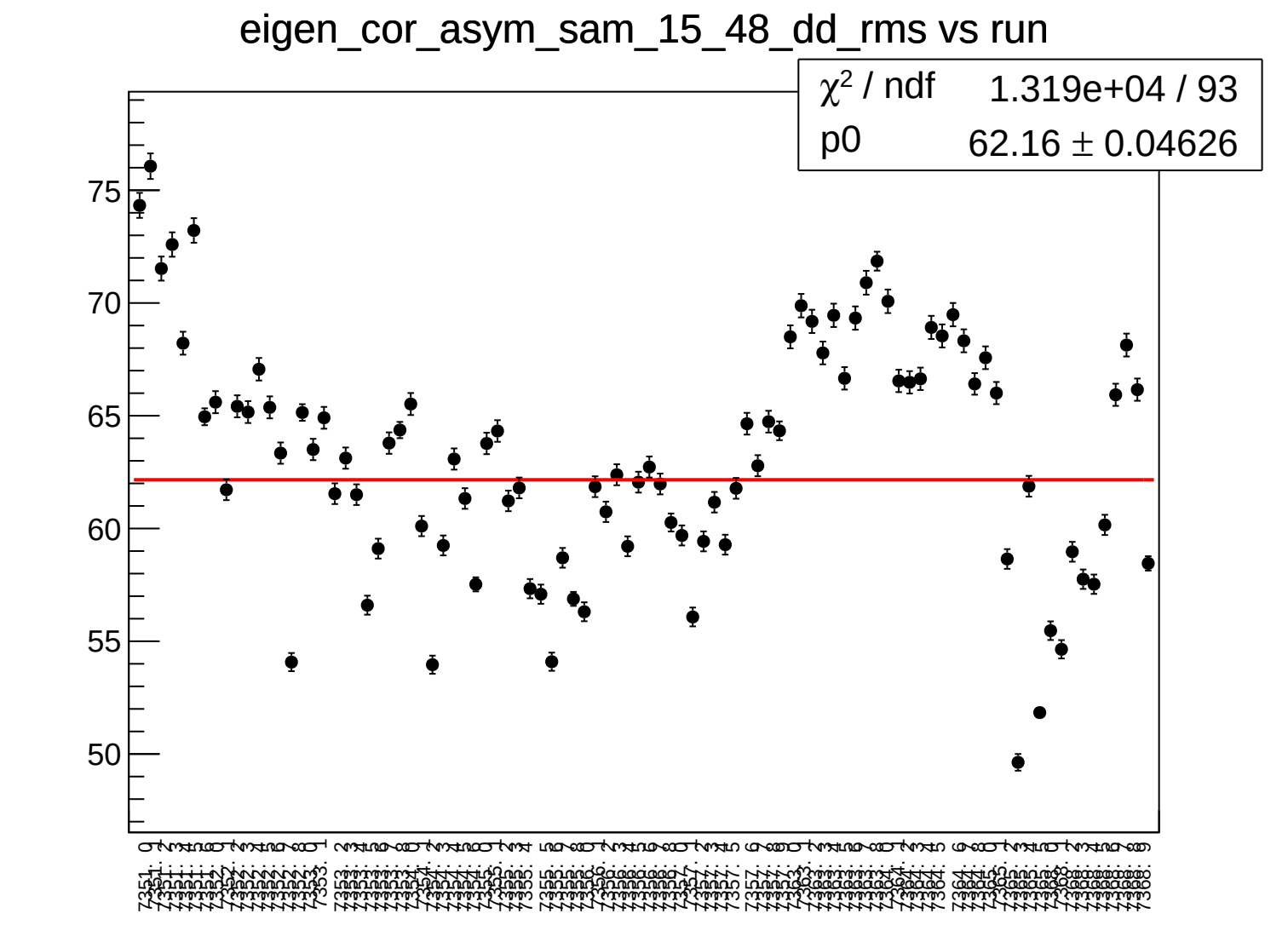

cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 1.319e+04 / 93
p0 62.16 ± 0.04626
75
70
65
60
55
50

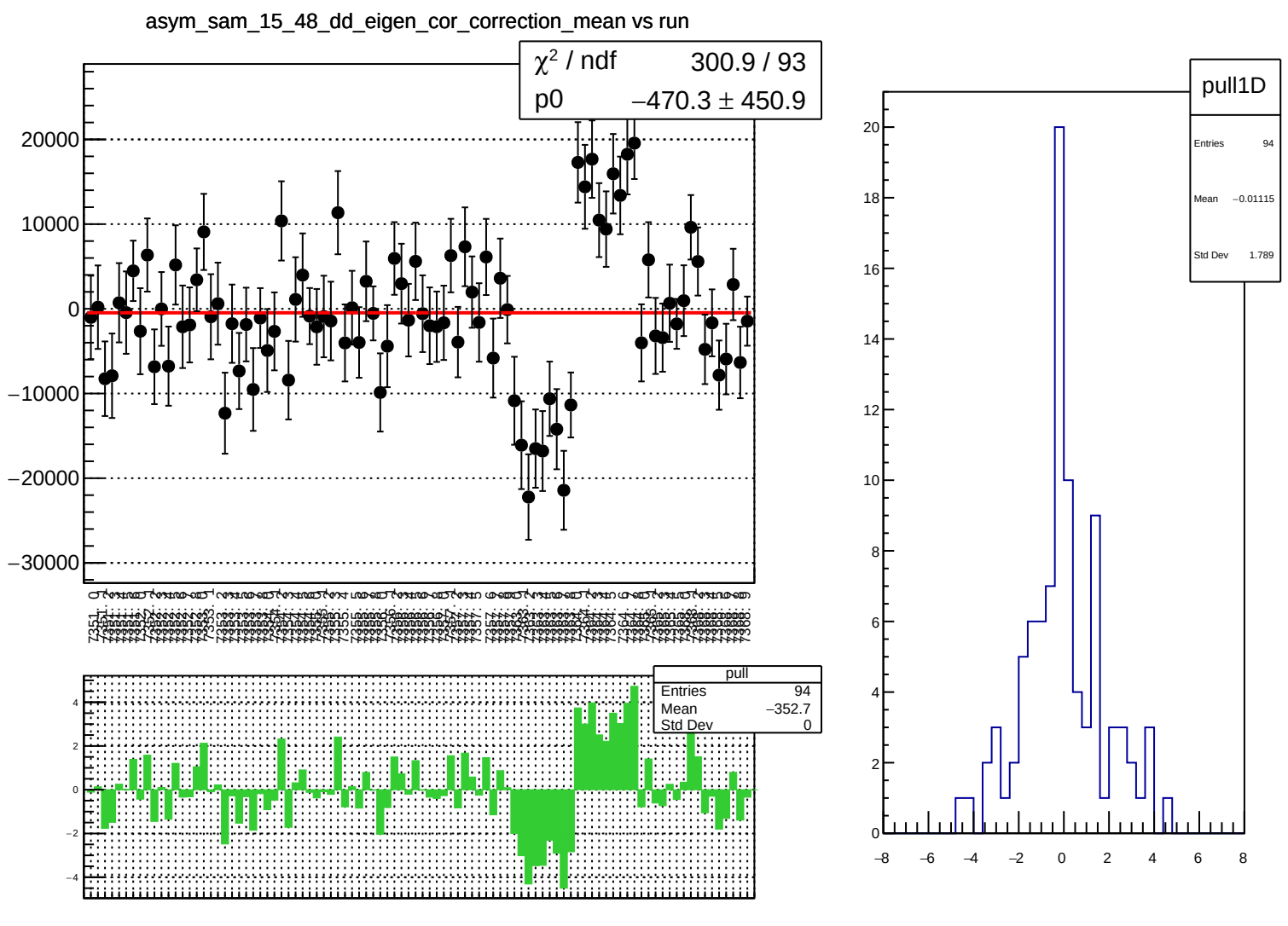

asym_sam_15_48_dd_cor_correction_mean vs run
χ² / ndf 300.9 / 93
p0 −470.3 ± 450.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −352.7
Std Dev 0
4
2
0
−2
−4
pull1D
Entries 94
Mean −0.01115
Std Dev 1.789
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

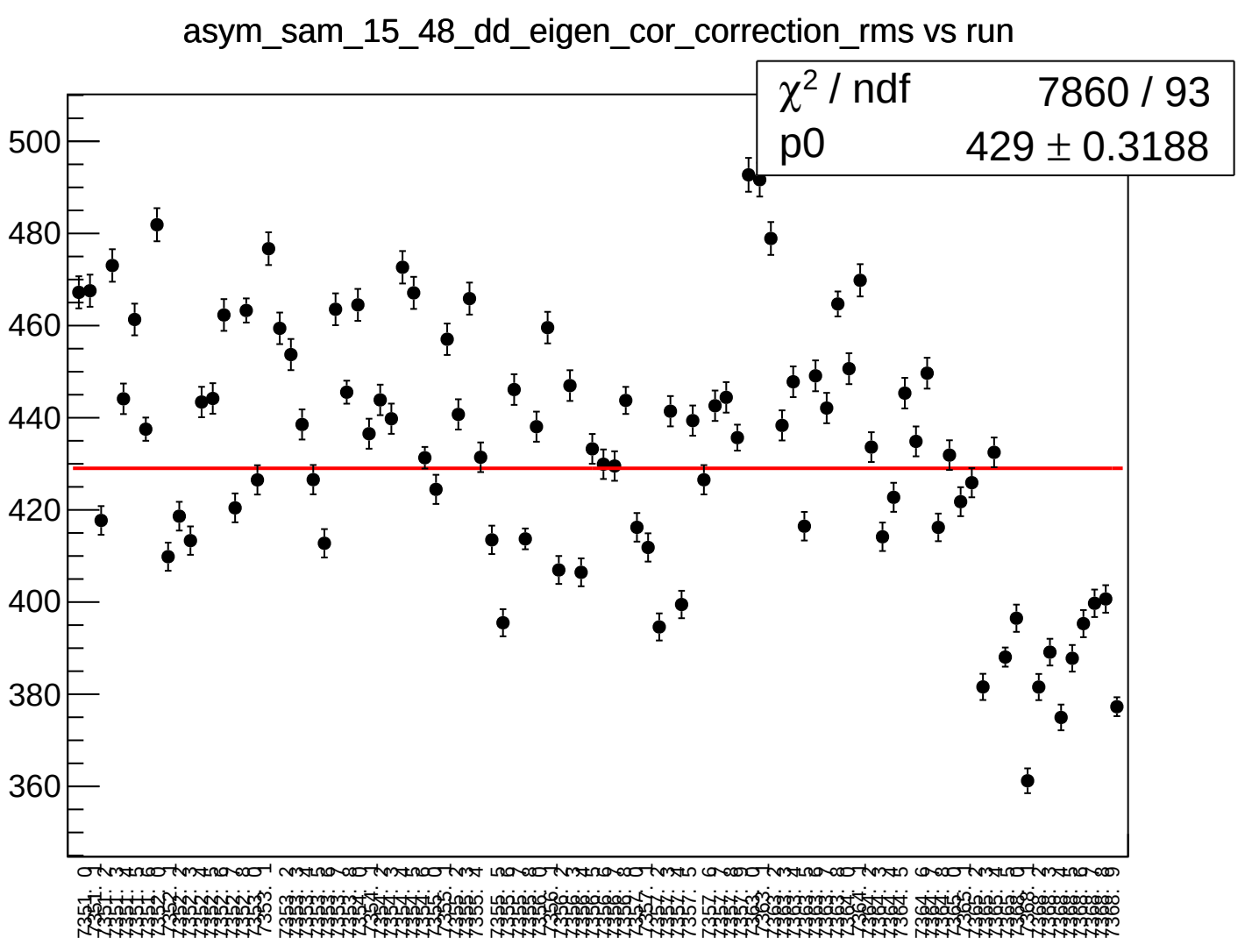

asym_sam_15_48_dd_cor_correction_rms vs run
χ² / ndf 7860 / 93
p0 429 ± 0.3188
500
480
460
440
420
400
380
360

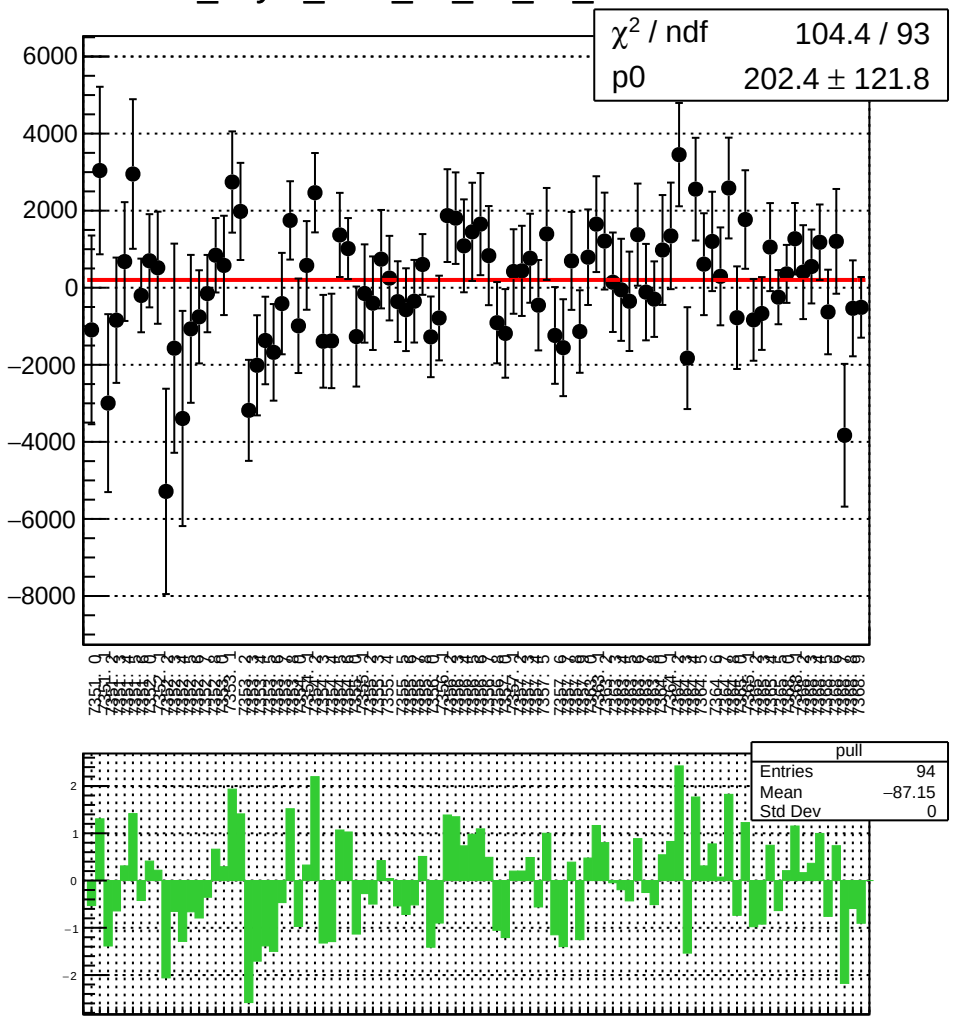

eigen_cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 149.4 / 93
p0 83.54 ± 65.42
3000
2000
1000
0
−1000
−2000
pull
Entries 94
Mean 228.7
Std Dev 0
3
2
1
0
−1
−2
−3

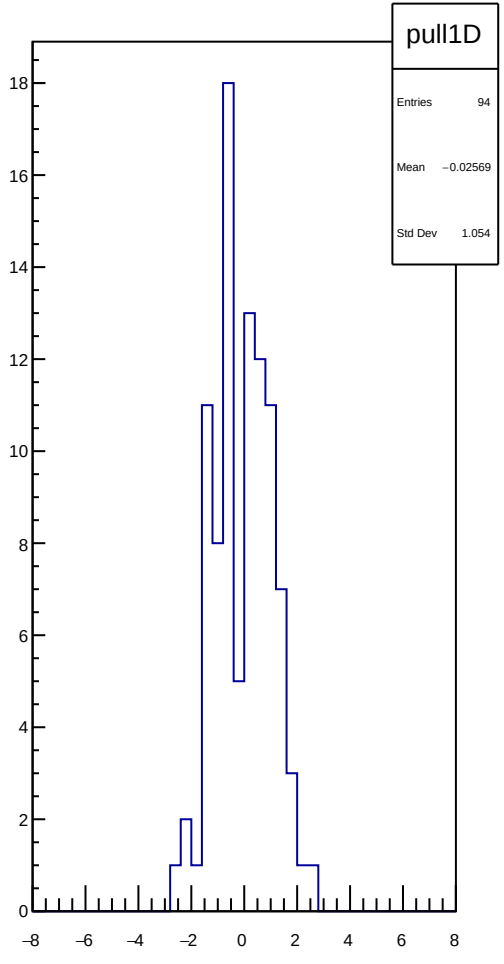

pull1D
Entries 94
Mean −0.005738
Std Dev 1.261
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

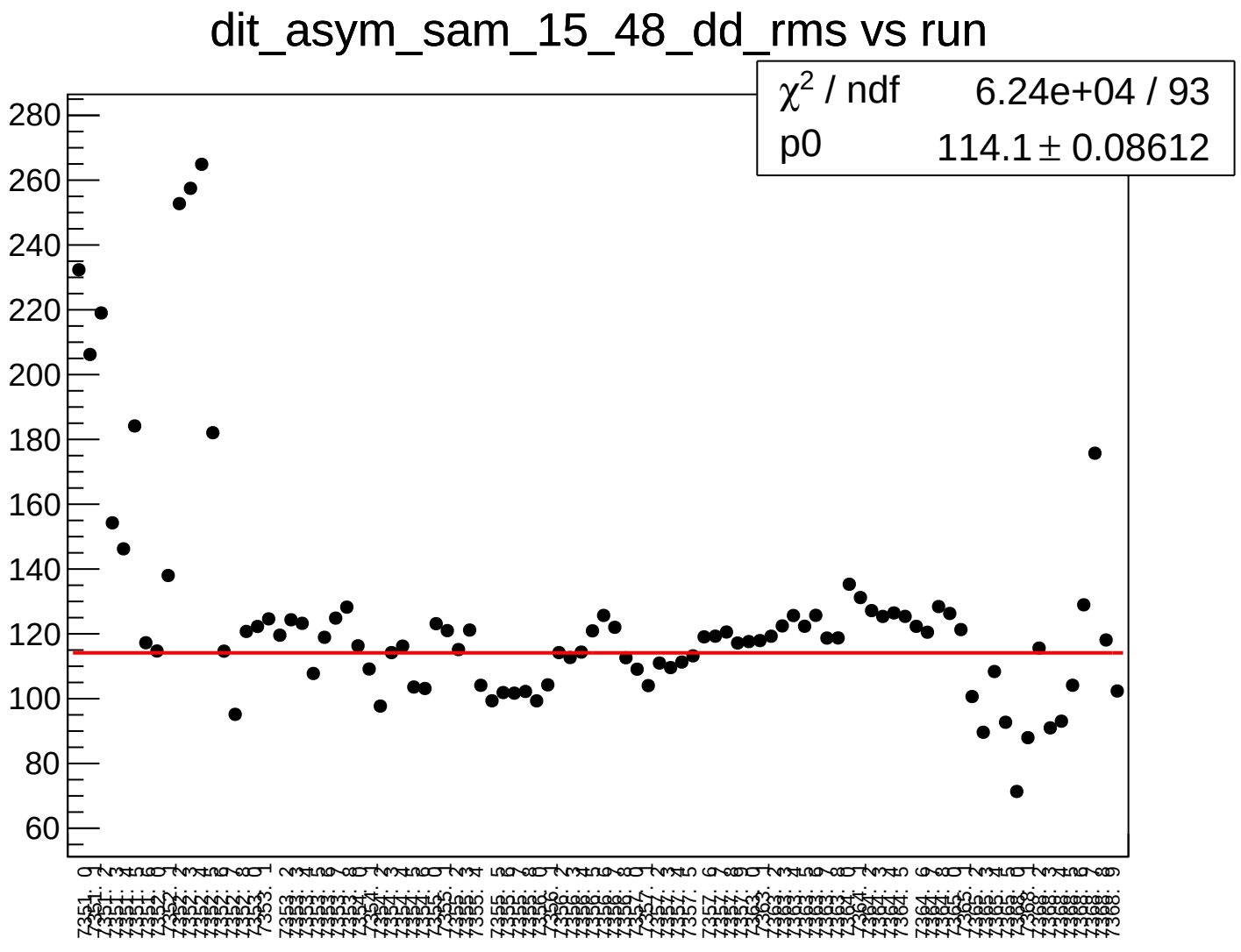

eigen_cor_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 1.319e+04 / 93
p0 62.16 ± 0.04626
75
70
65
60
55
50

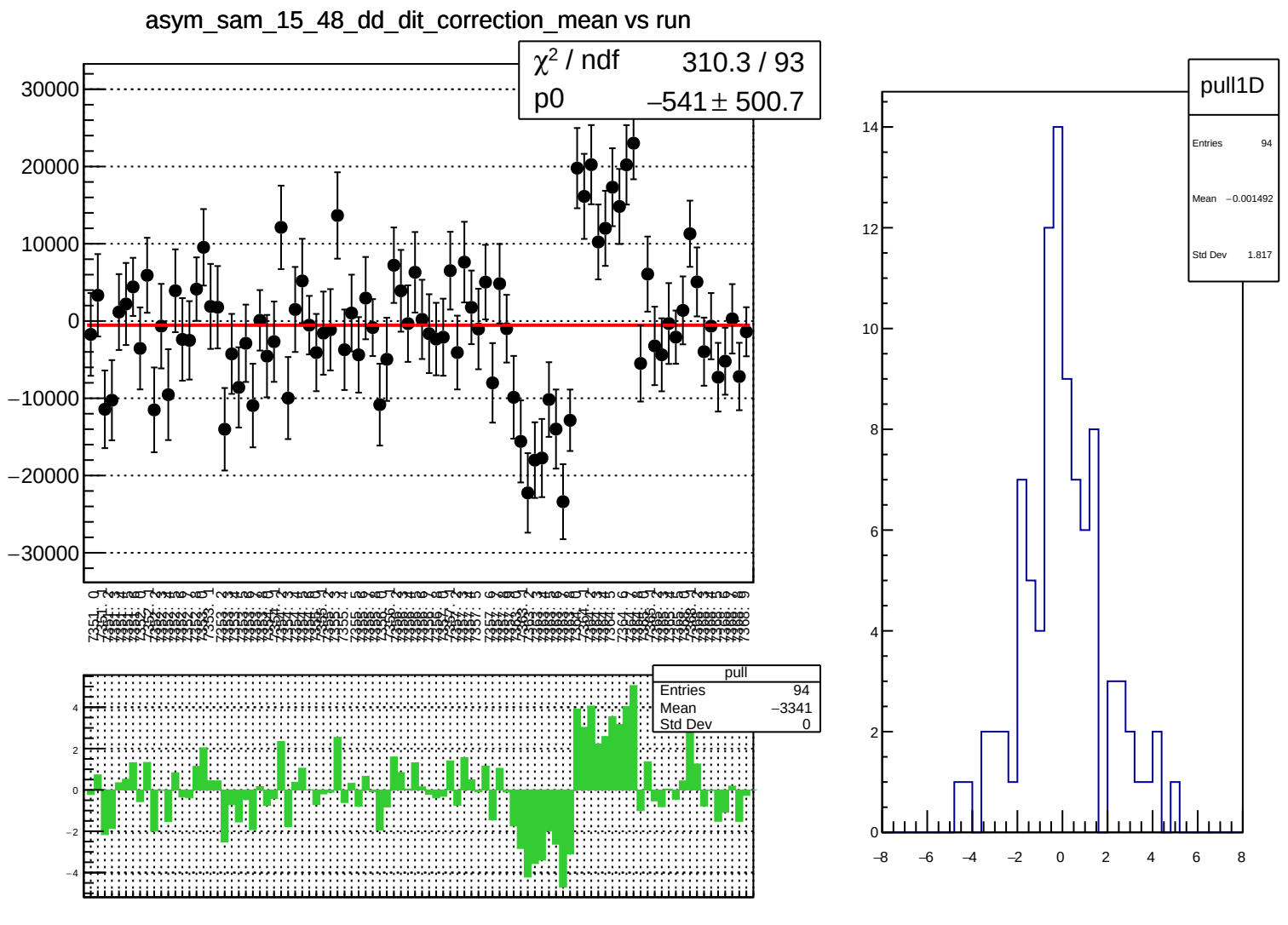

asym_sam_15_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 300.9 / 93
p0 −470.3 ± 450.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −352.7
Std Dev 0
4
2
0
−2
−4
pull1D
Entries 94
Mean −0.01115
Std Dev 1.789
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

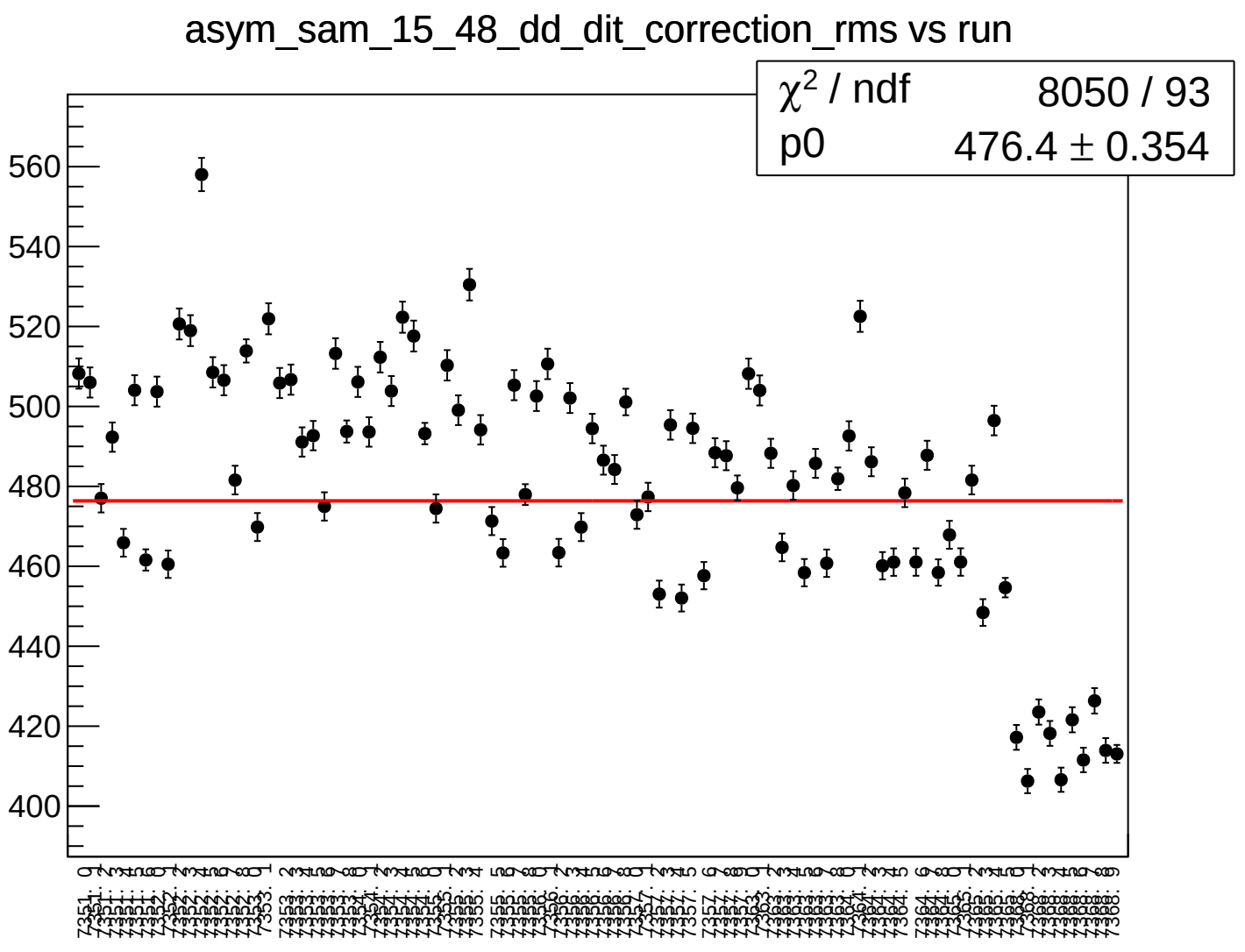

asym_sam_15_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 7860 / 93
p0 429 ± 0.3188
500
480
460
440
420
400
380
360

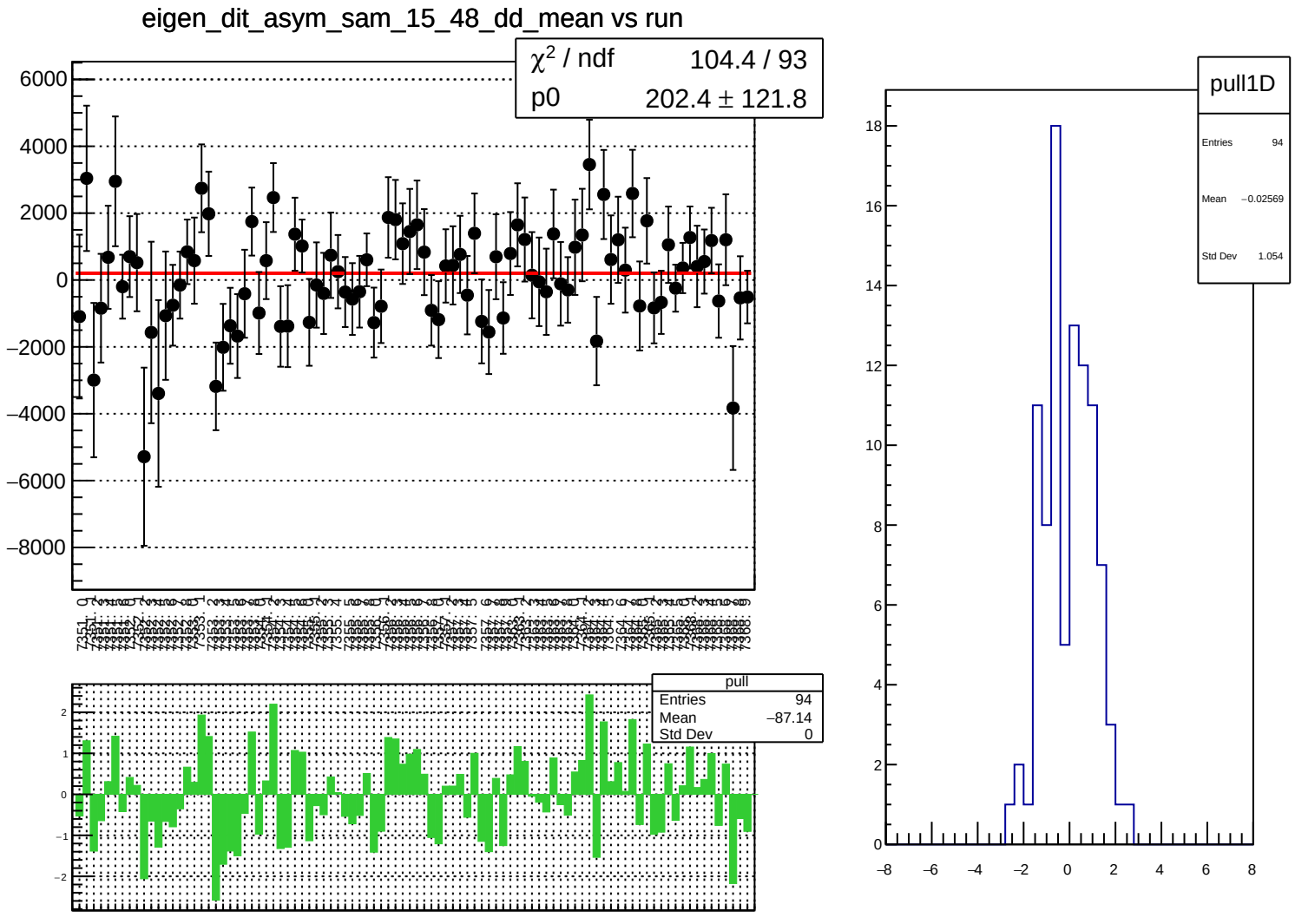

dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 104.4 / 93
p0 202.4 ± 121.8
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 94
Mean −87.15
Std Dev 0
2
1
0
−1
−2

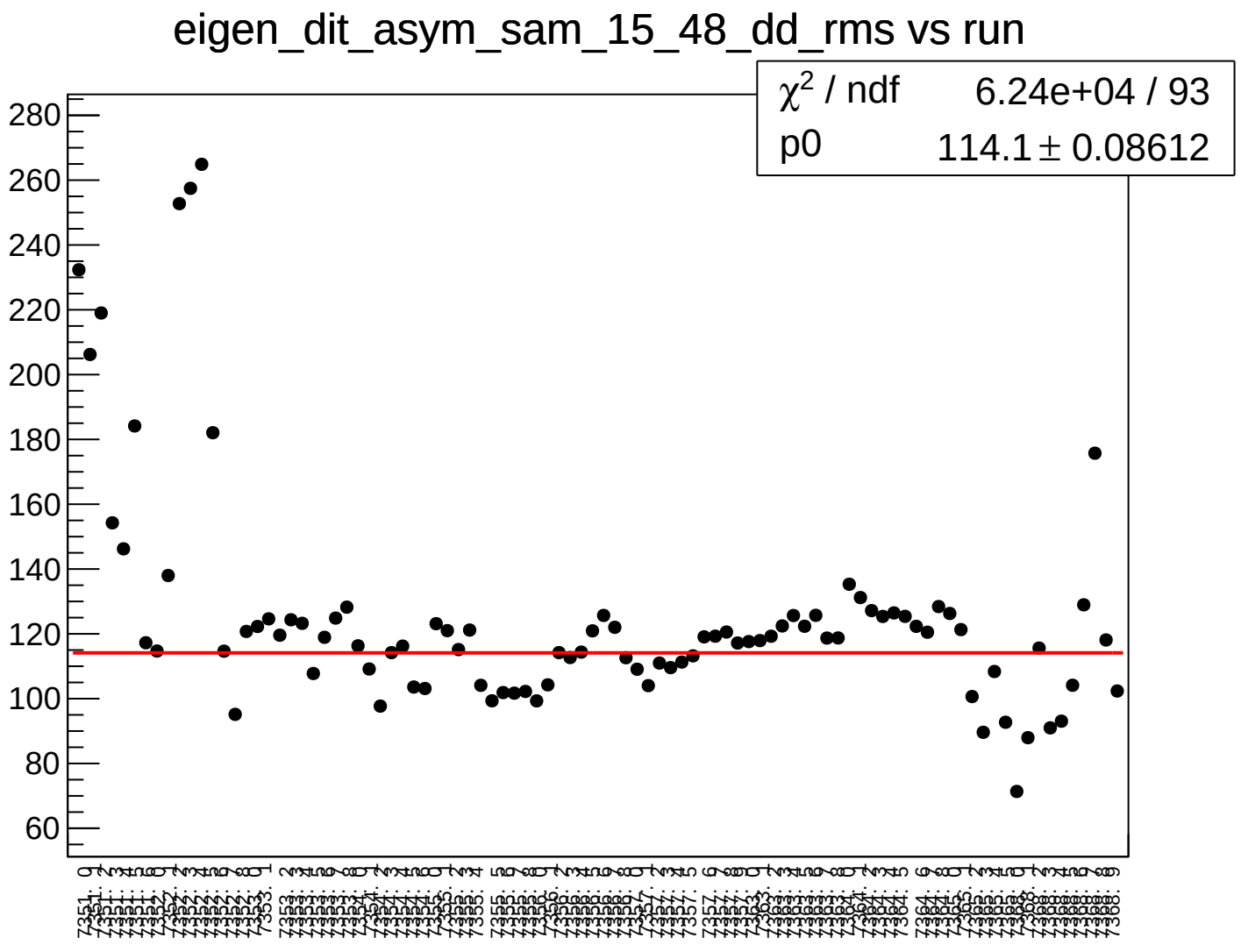

pull1D
Entries 94
Mean −0.02569
Std Dev 1.054
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

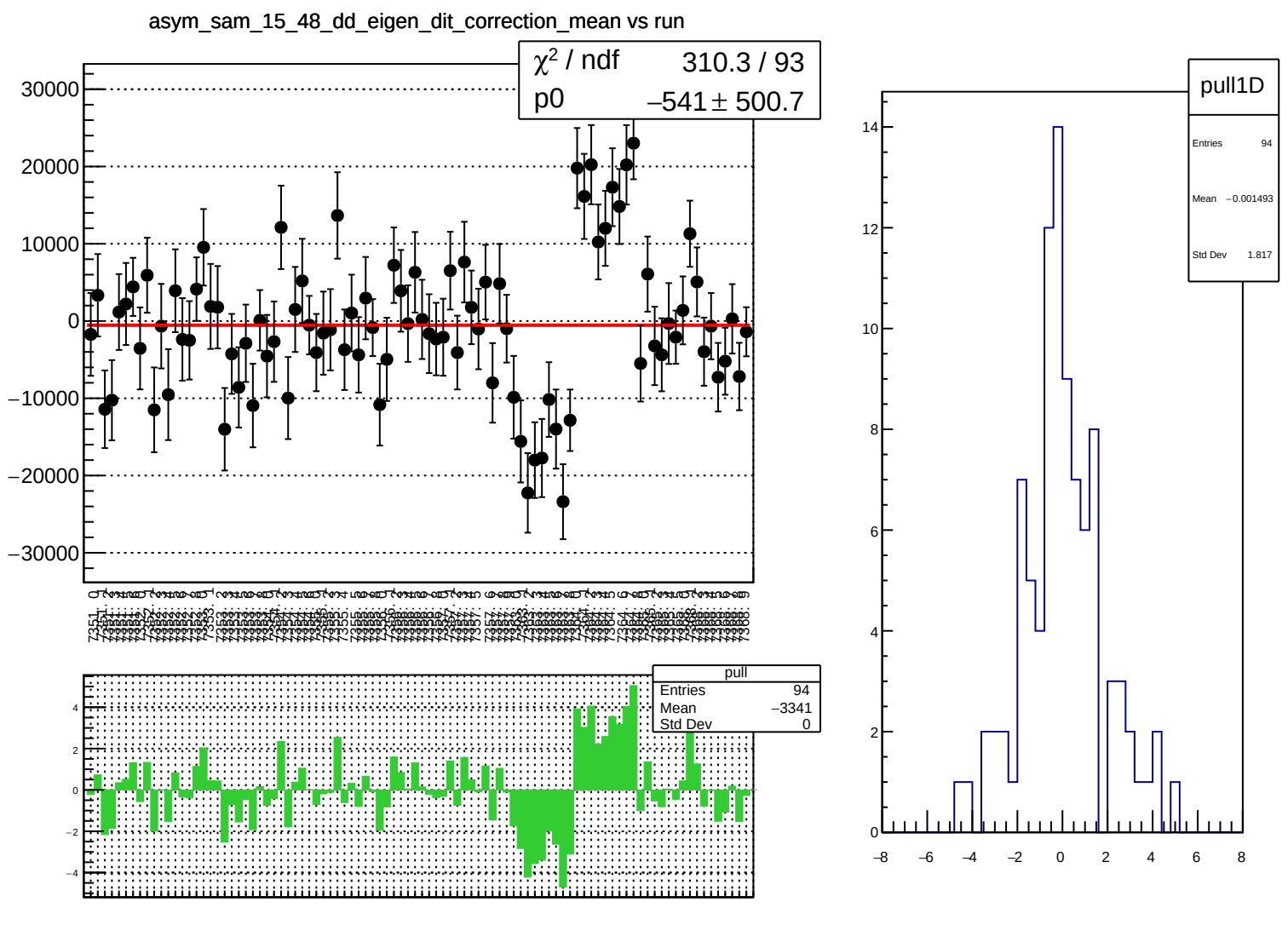

dit_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 6.24e+04 / 93
p0 114.1 ± 0.08612
280
260
240
220
200
180
160
140
120
100
80
60

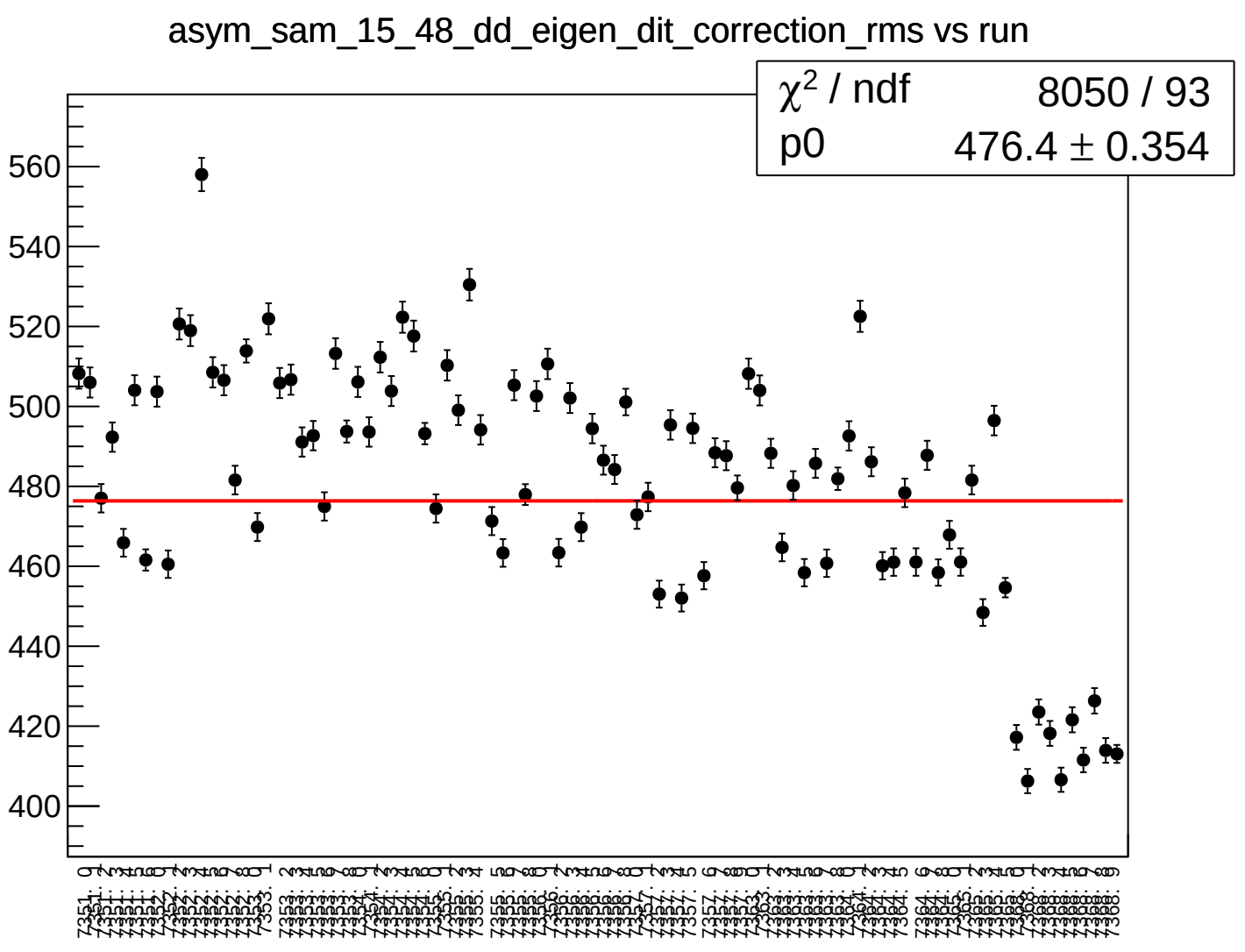

asym_sam_15_48_dd_dit_correction_mean vs run
χ² / ndf 310.3 / 93
p0 −541 ± 500.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −3341
Std Dev 0
4
2
0
−2
−4
pull1D
Entries 94
Mean −0.001492
Std Dev 1.817
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

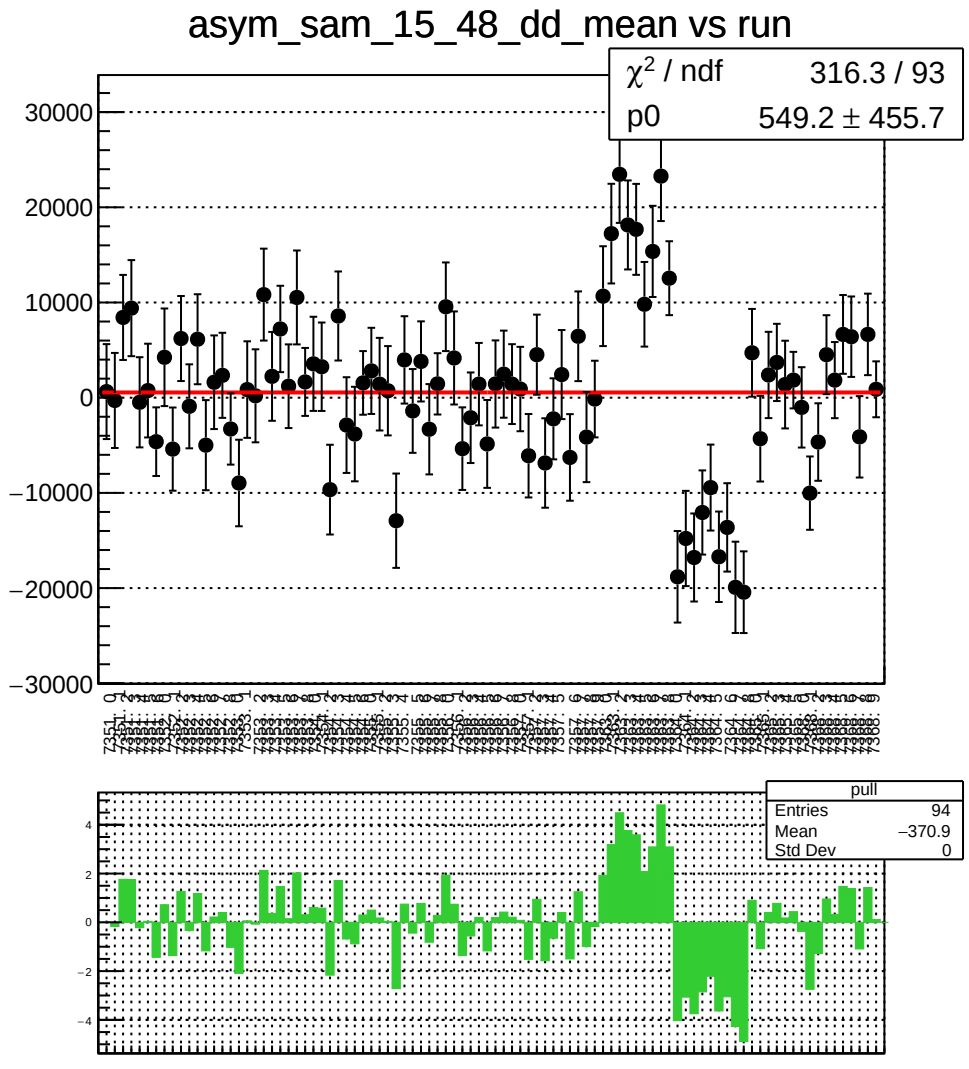

asym_sam_15_48_dd_dit_correction_rms vs run
χ² / ndf 8050 / 93
p0 476.4 ± 0.354
560
540
520
500
480
460
440
420
400

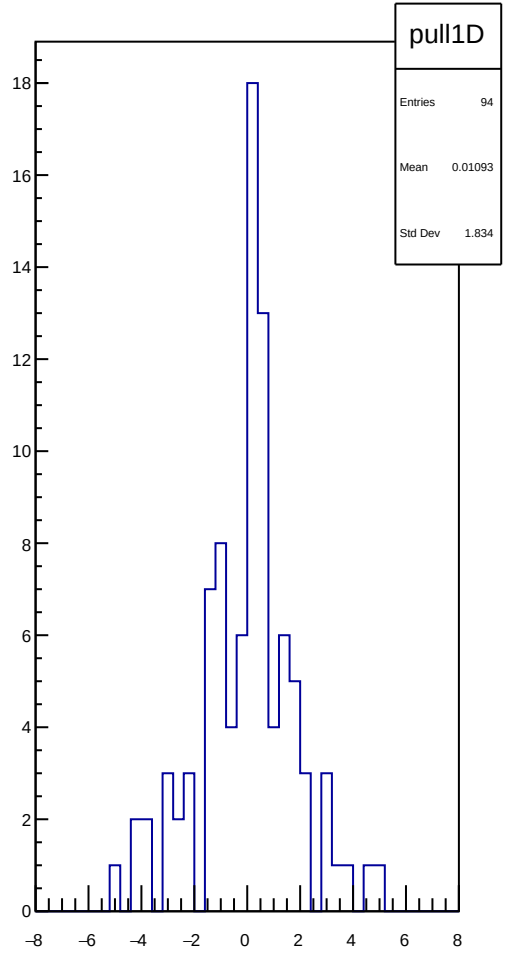

eigen_dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 104.4 / 93
p0 202.4 ± 121.8
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 94
Mean −87.14
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.02569
Std Dev 1.054
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

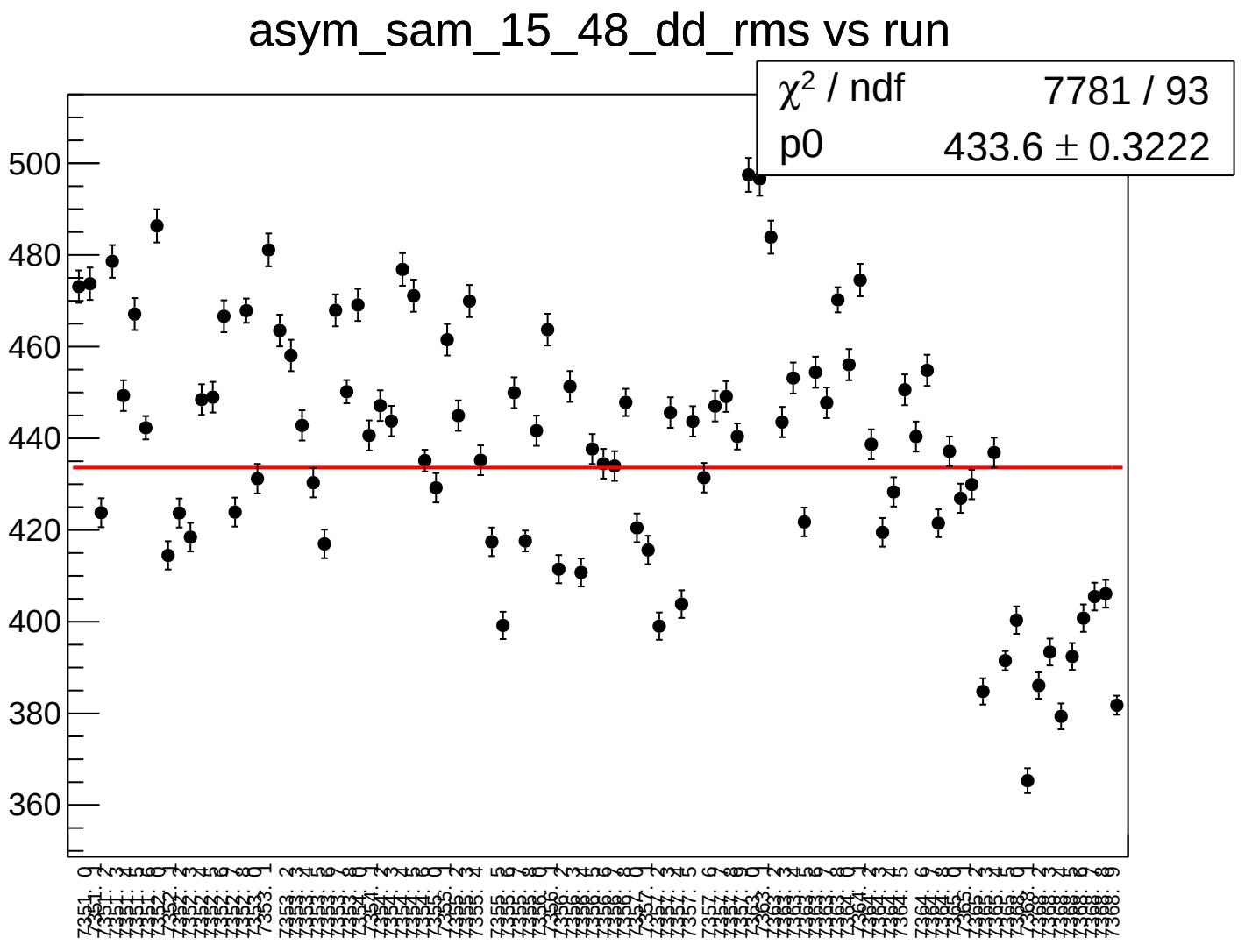

eigen_dit_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 6.24e+04 / 93
p0 114.1 ± 0.08612
280
260
240
220
200
180
160
140
120
100
80
60

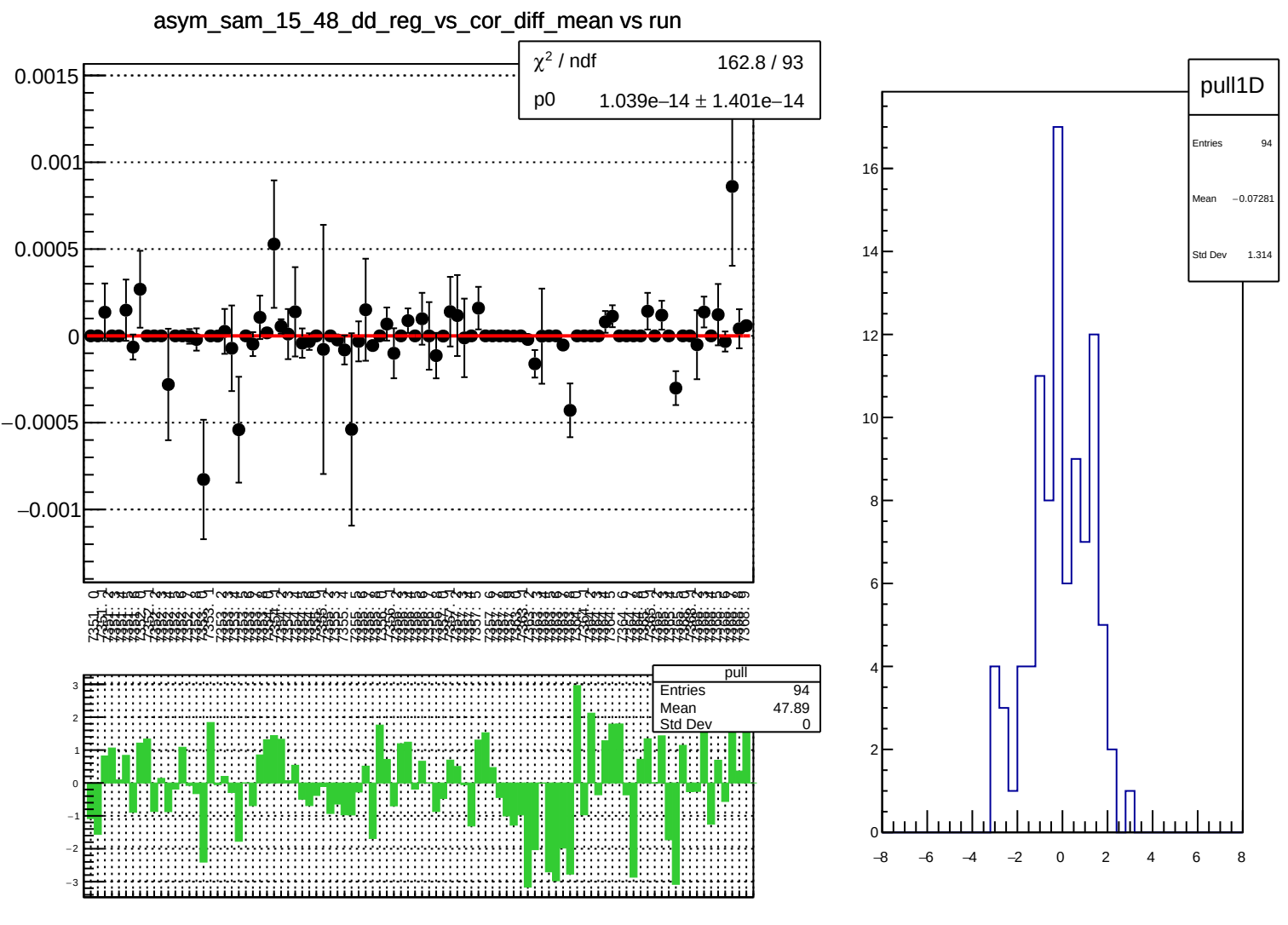

asym_sam_15_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 310.3 / 93
p0 −541 ± 500.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −3341
Std Dev 0
4
2
0
−2
−4
pull1D
Entries 94
Mean −0.001493
Std Dev 1.817
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

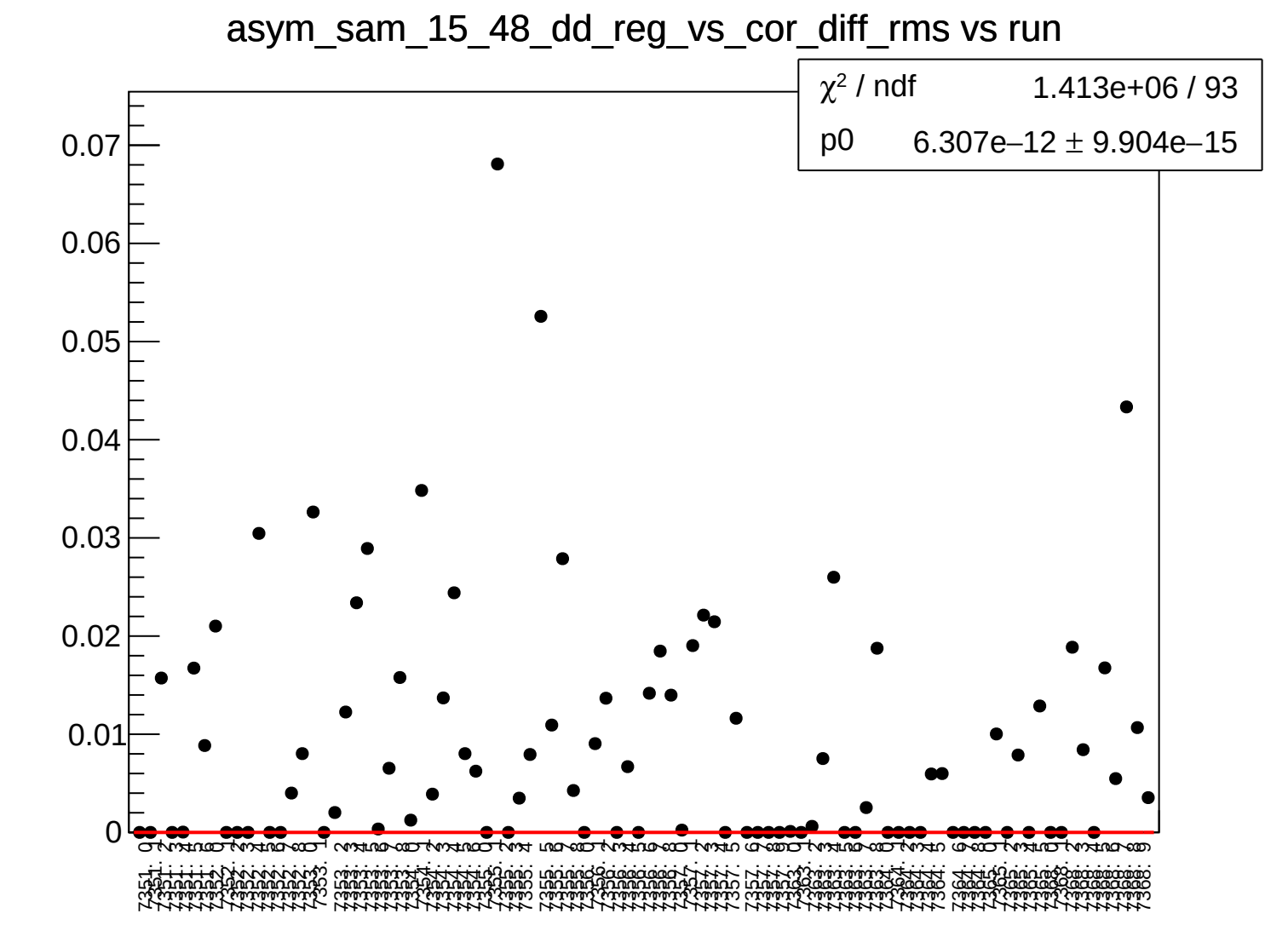

asym_sam_15_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 8050 / 93
p0 476.4 ± 0.354
560
540
520
500
480
460
440
420
400

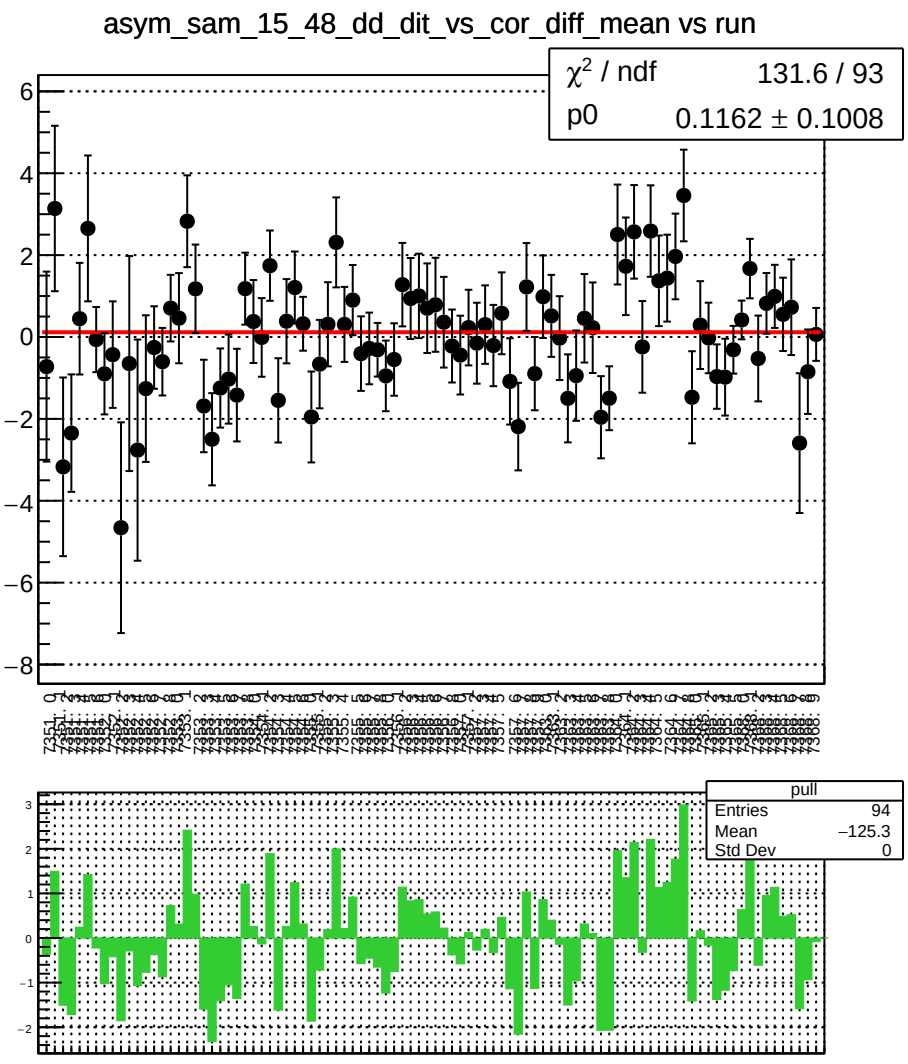

asym_sam_15_48_dd_mean vs run
χ² / ndf 316.3 / 93
p0 549.2 ± 455.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −370.9
Std Dev 0
4
2
0
−2
−4

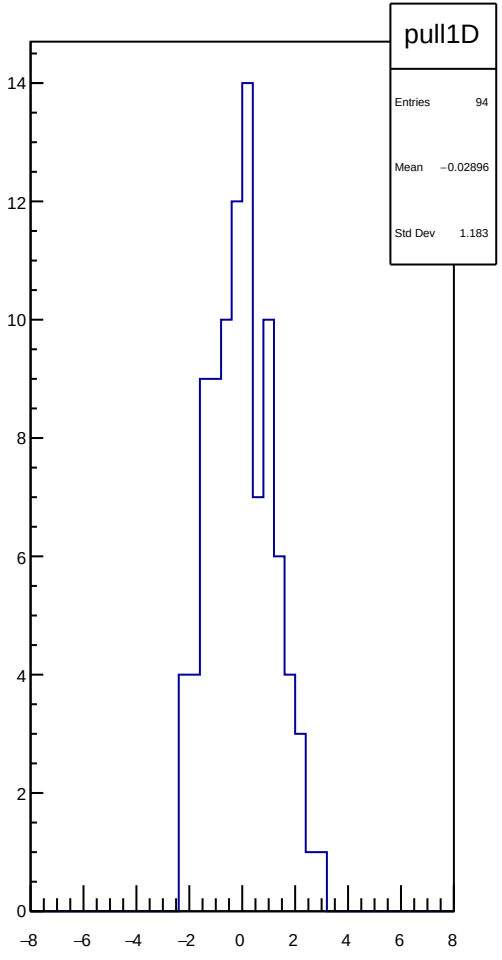

pull1D
Entries 94
Mean 0.01093
Std Dev 1.834
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

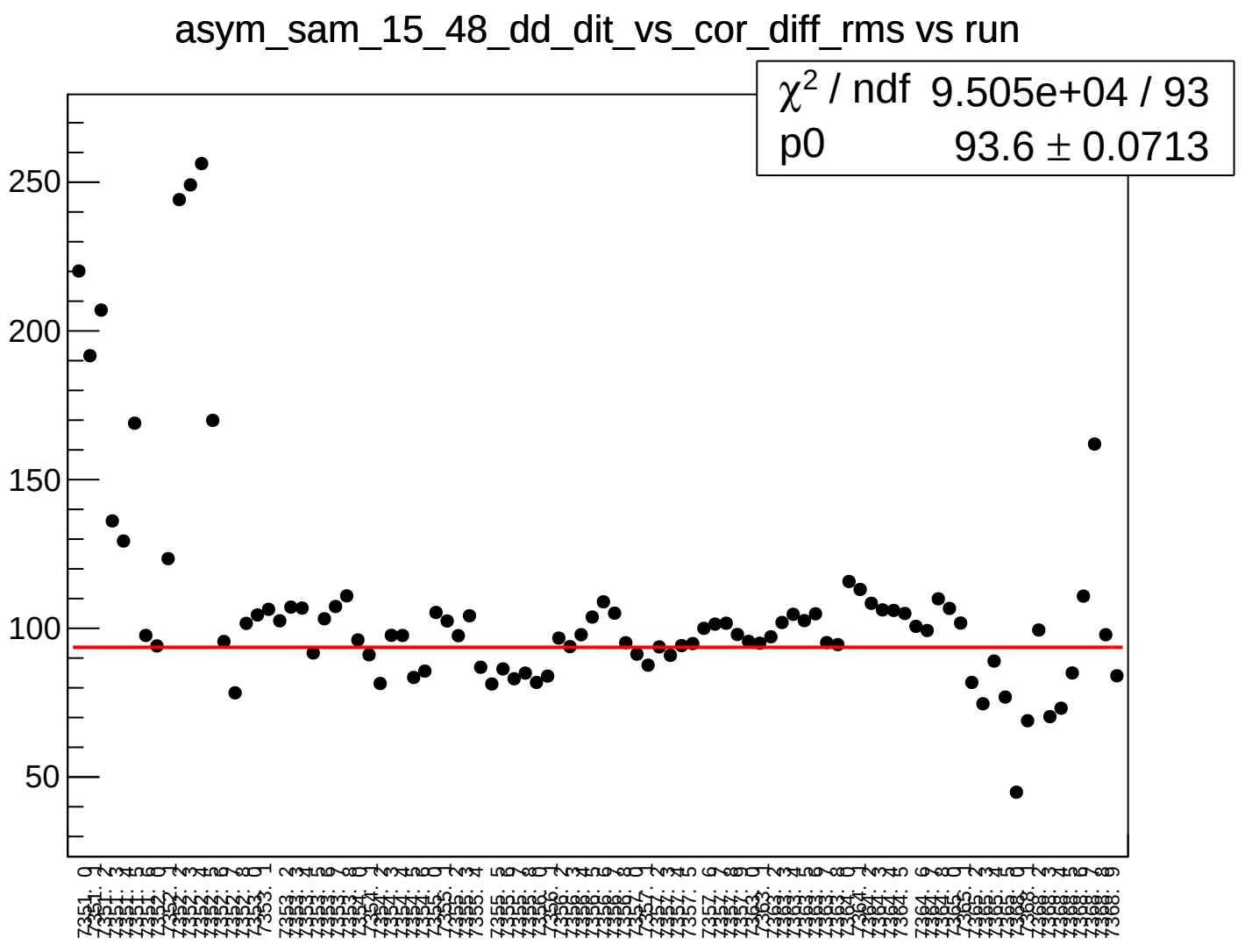

asym_sam_15_48_dd_rms vs run
χ² / ndf 7781 / 93
p0 433.6 ± 0.3222
500
480
460
440
420
400
380
360

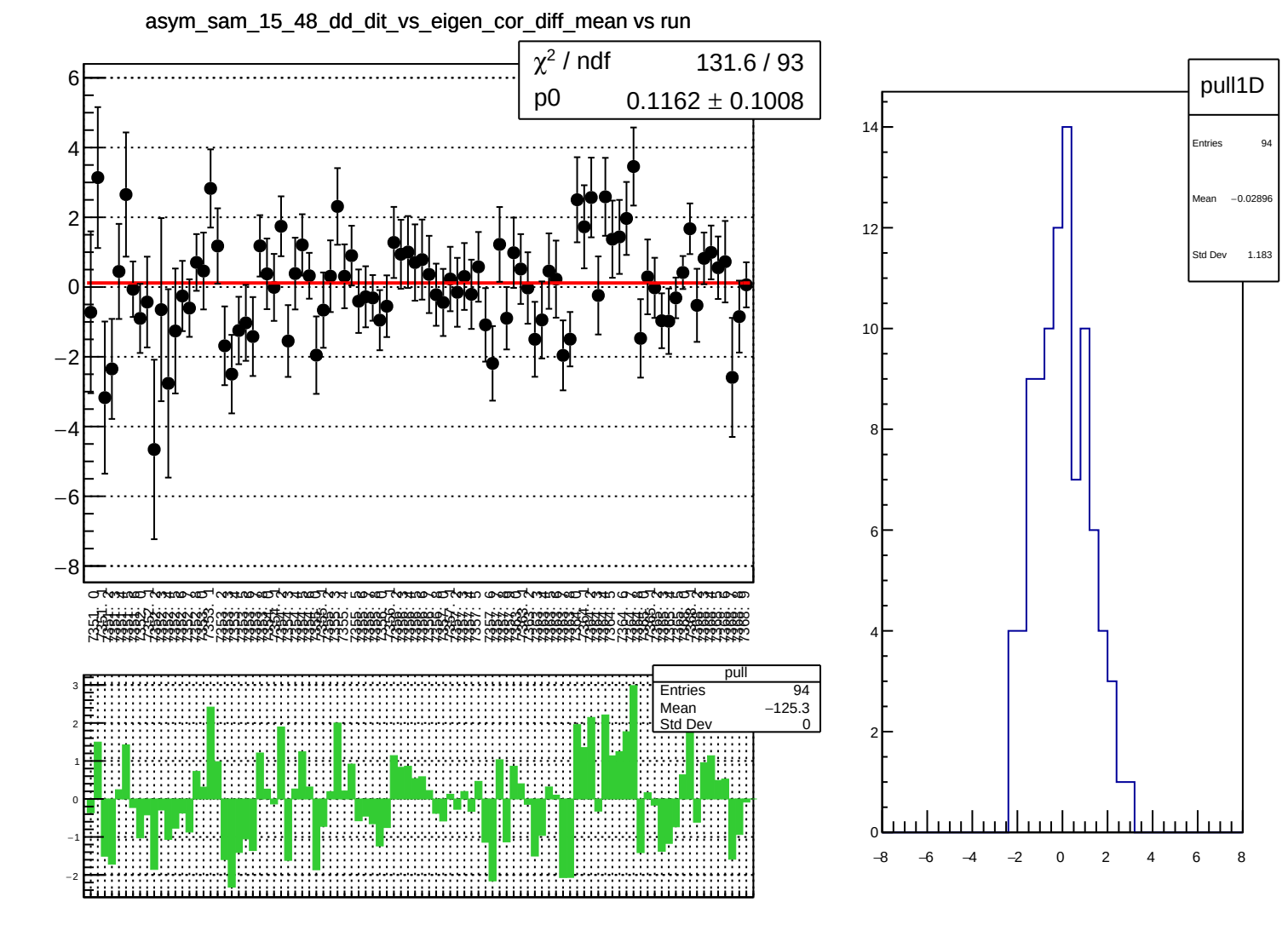

asym_sam_15_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 162.8 / 93
p0 1.039e−14 ± 1.401e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 94
Mean 47.89
Std Dev 0
pull1D
Entries 94
Mean −0.07281
Std Dev 1.314
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

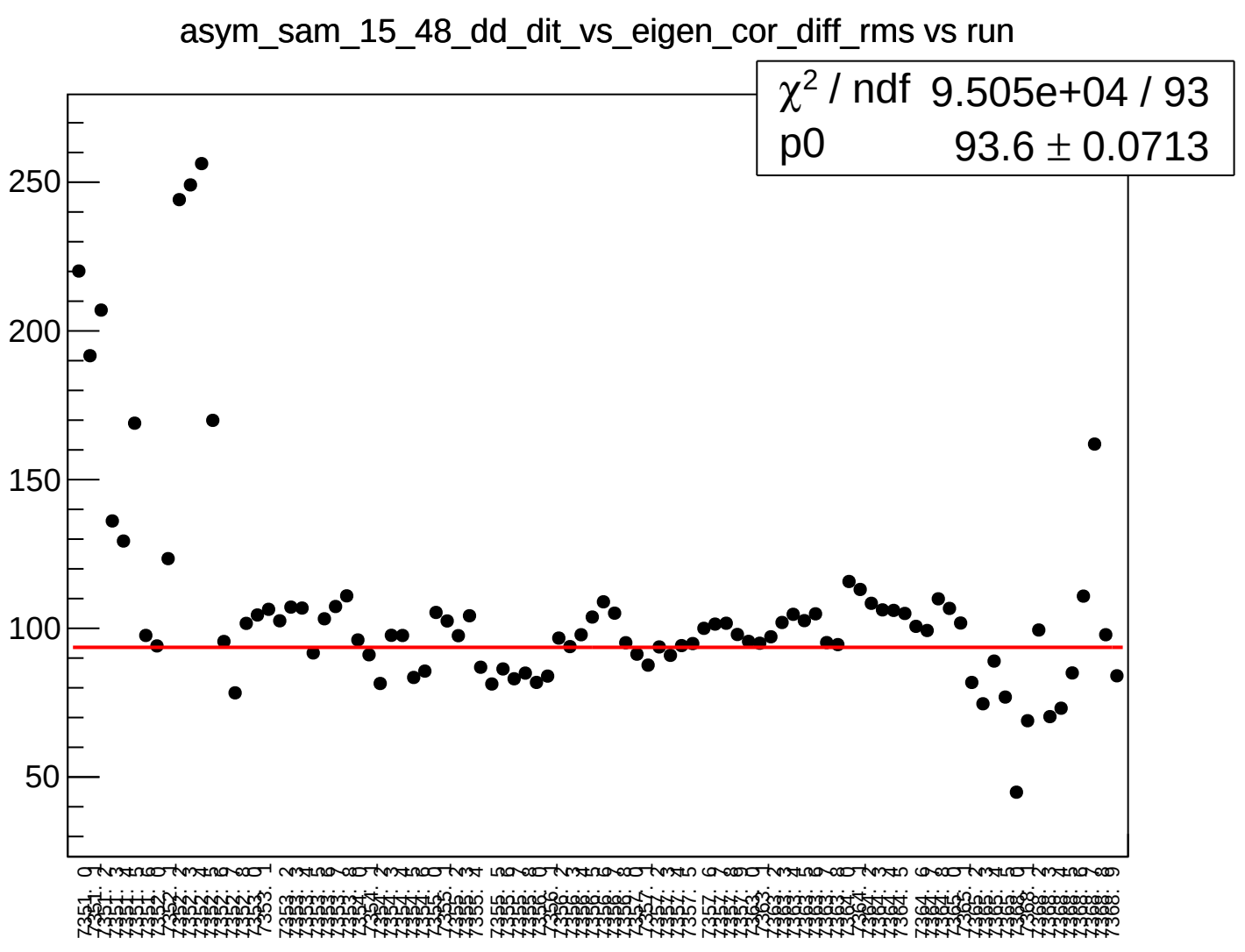

asym_sam_15_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.413e+06 / 93
p0 6.307e−12 ± 9.904e−15
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

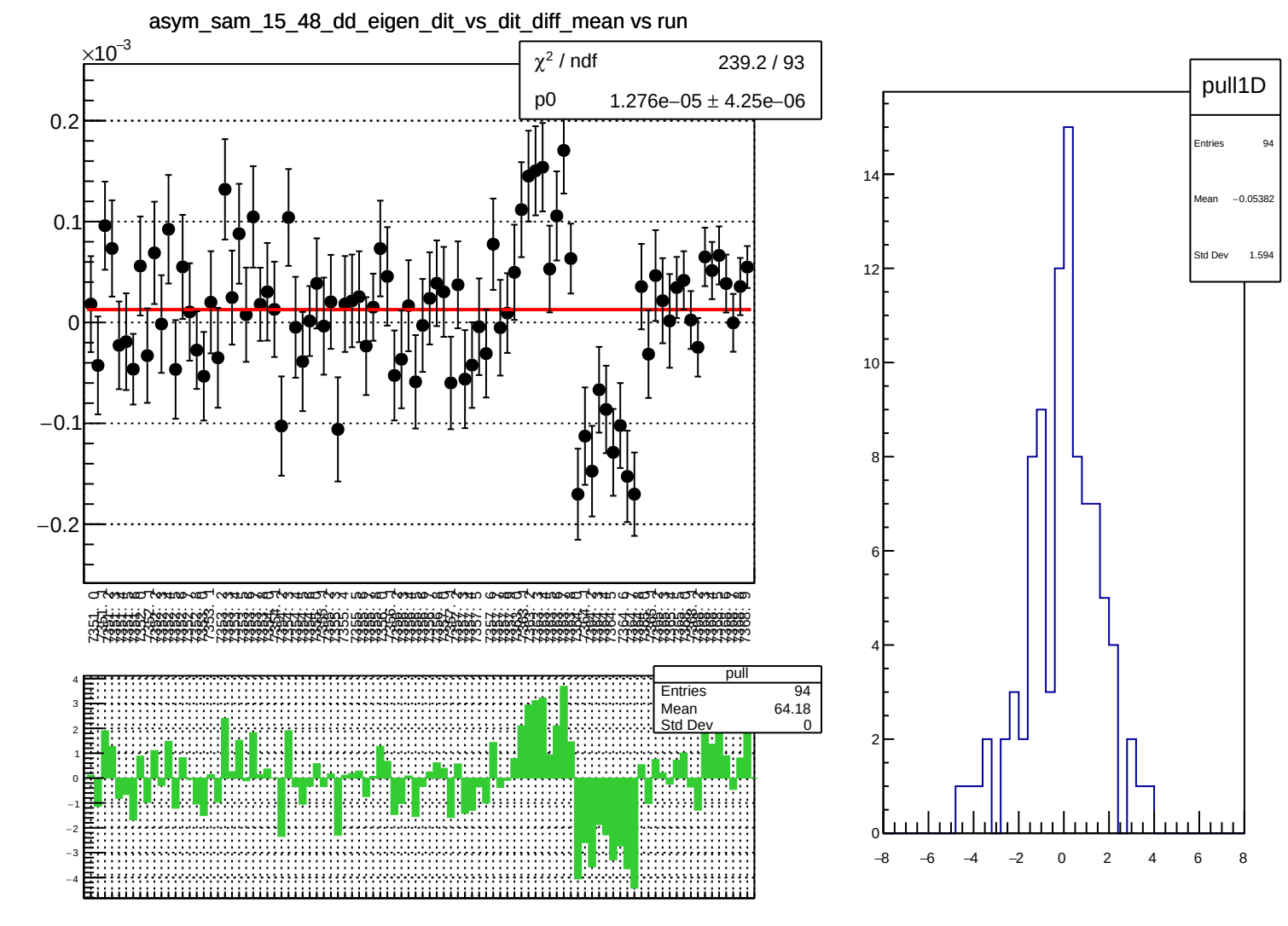

asym_sam_15_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 131.6 / 93
p0 0.1162 ± 0.1008
pull
Entries 94
Mean −125.3
Std Dev 0

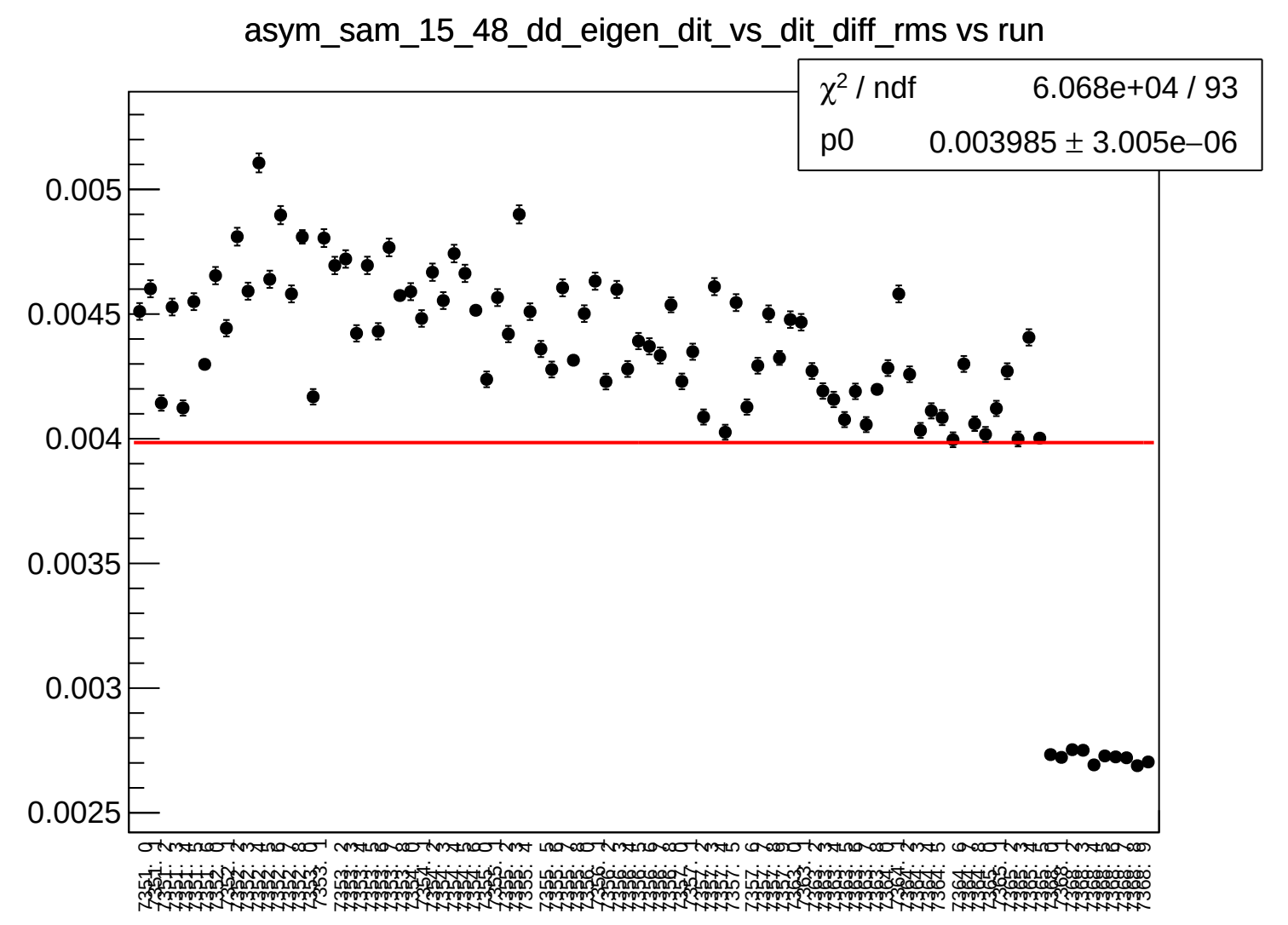

pull1D
Entries 94
Mean −0.02896
Std Dev 1.183

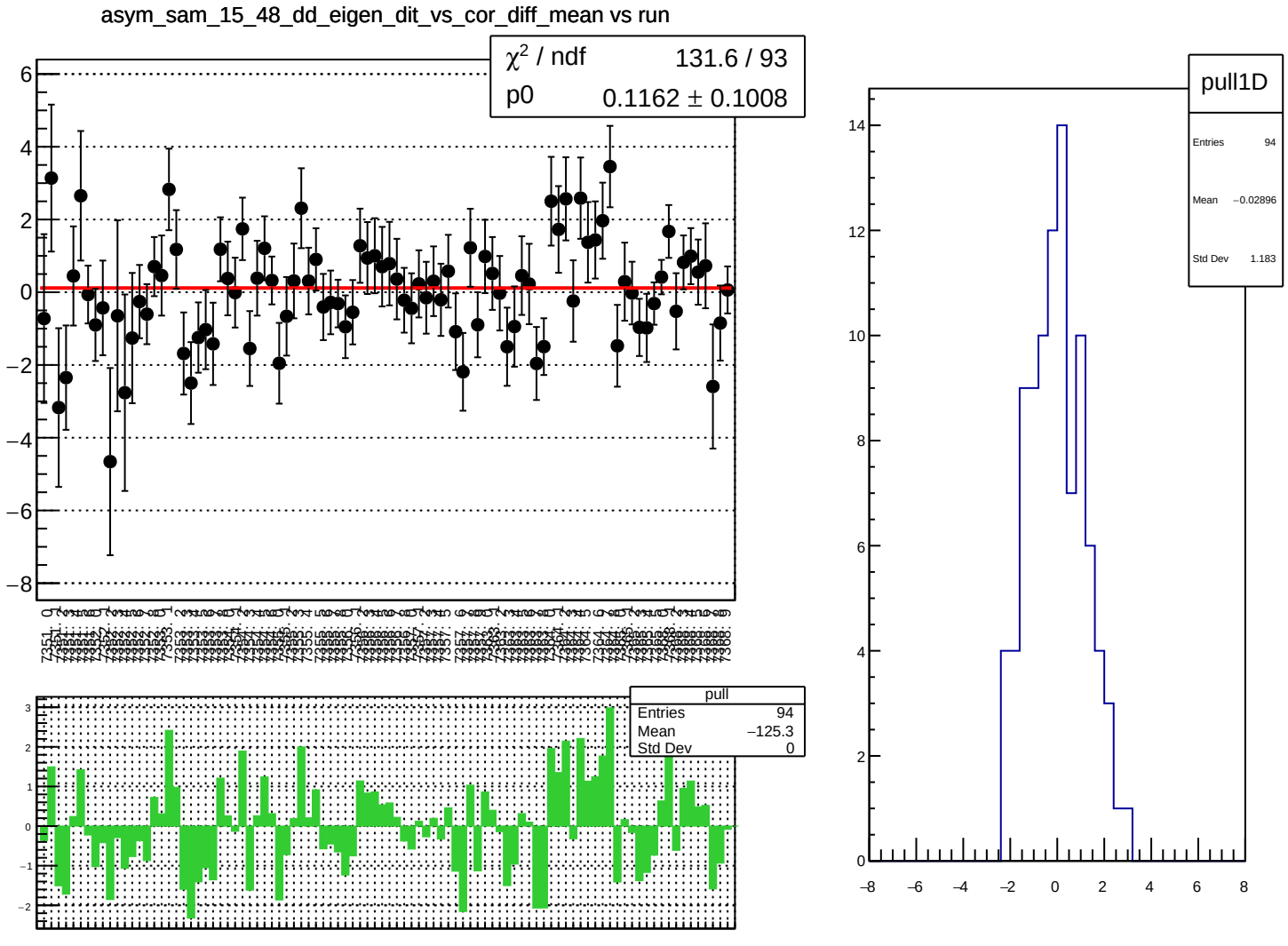

asym_sam_15_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9.505e+04 / 93
p0 93.6 ± 0.0713
250
200
150
100
50

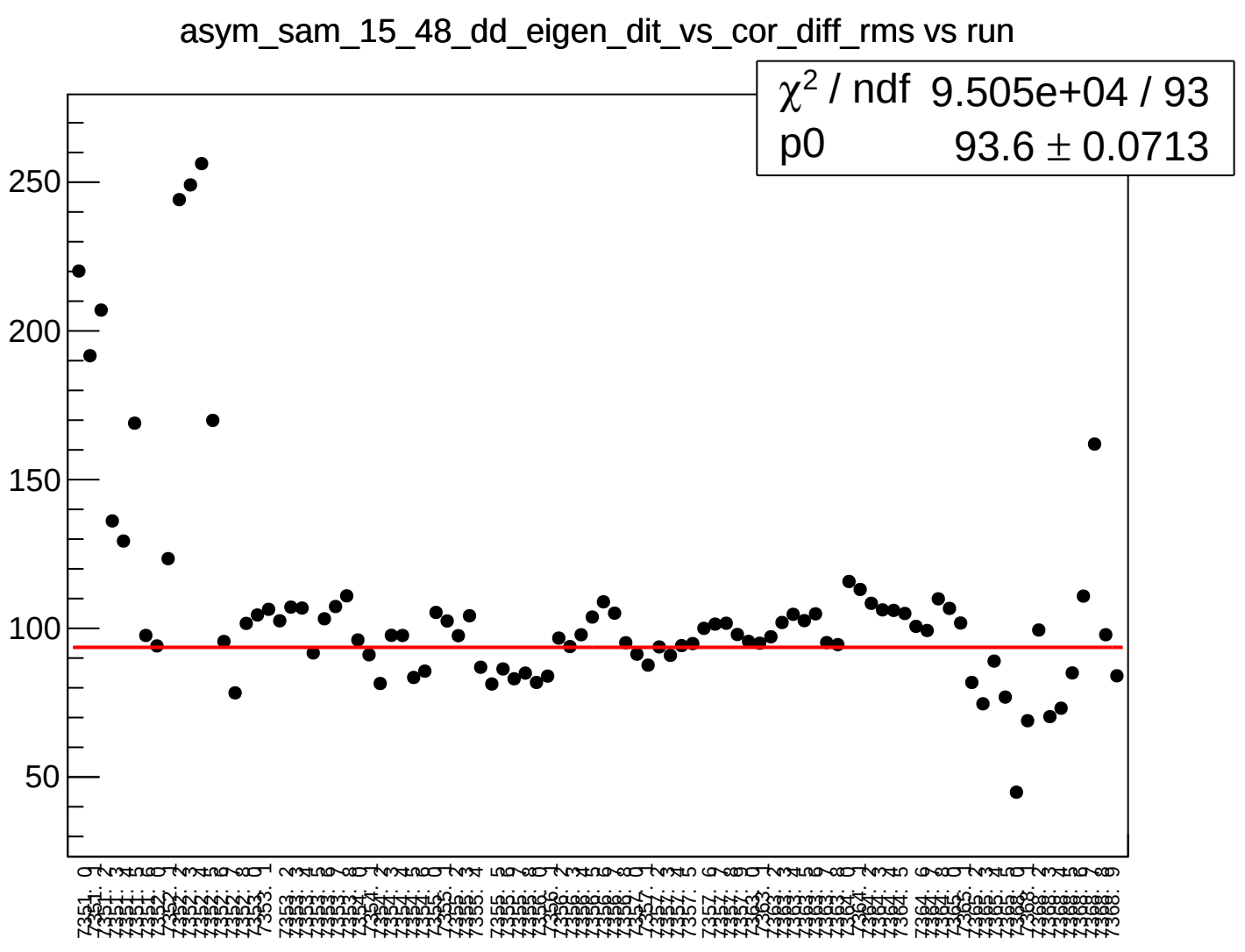

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 131.6 / 93
p0 0.1162 ± 0.1008
pull
Entries 94
Mean −125.3
Std Dev 0
pull1D
Entries 94
Mean −0.02896
Std Dev 1.183

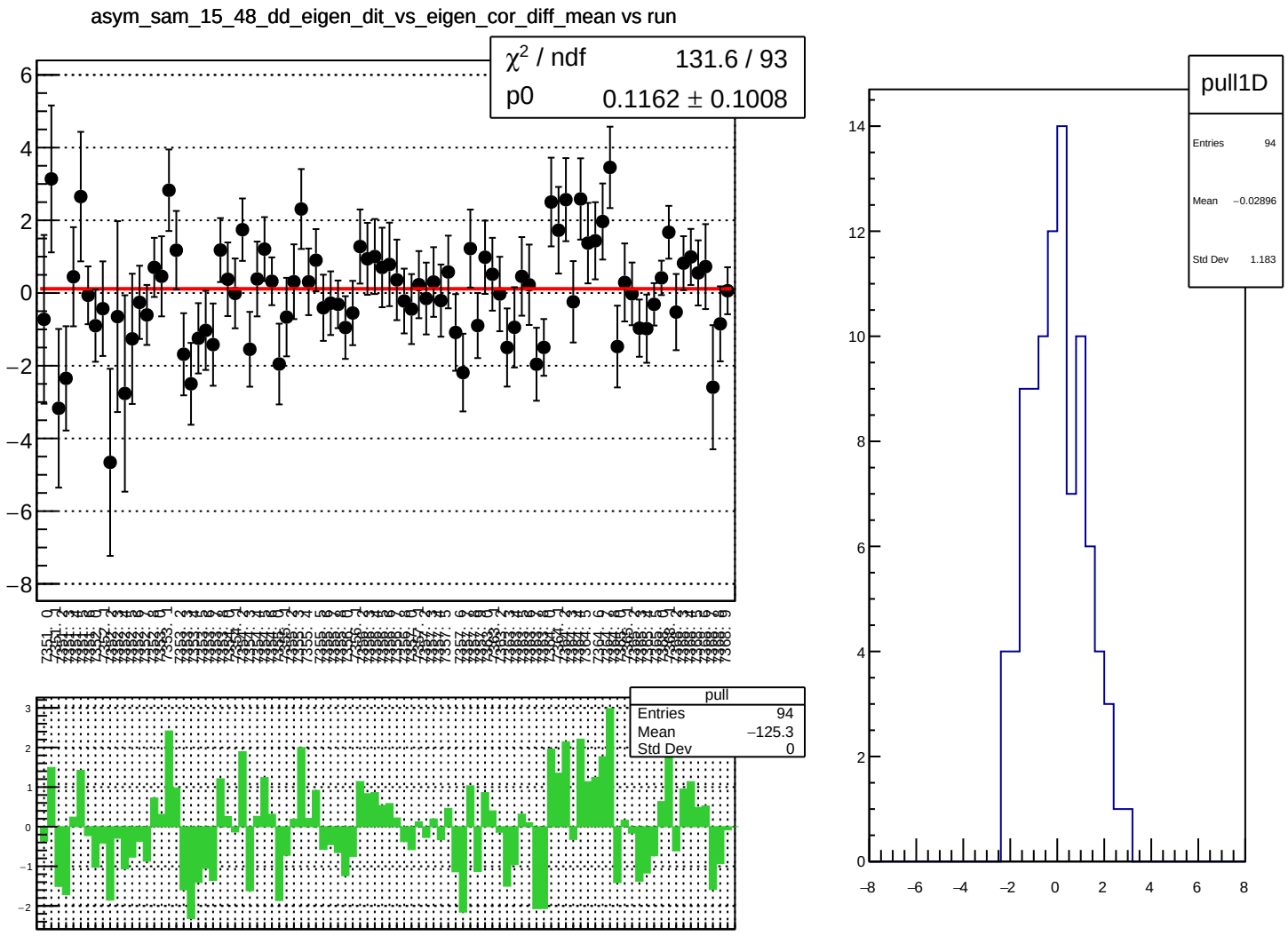

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.505e+04 / 93
p0 93.6 ± 0.0713
250
200
150
100
50

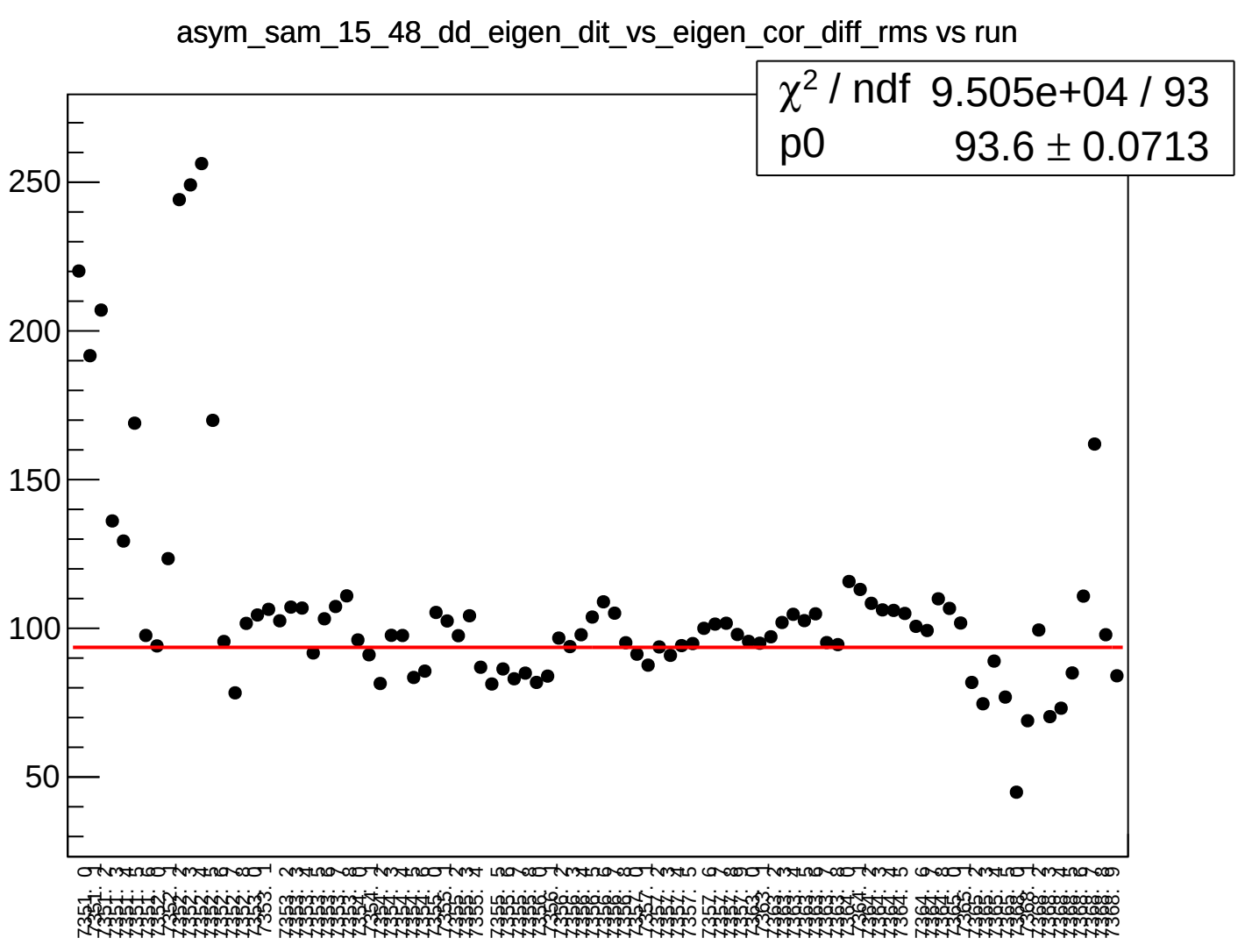

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 239.2 / 93
p0 1.276e−05 ± 4.25e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 94
Mean 64.18
Std Dev 0
pull1D
Entries 94
Mean −0.05382
Std Dev 1.594
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

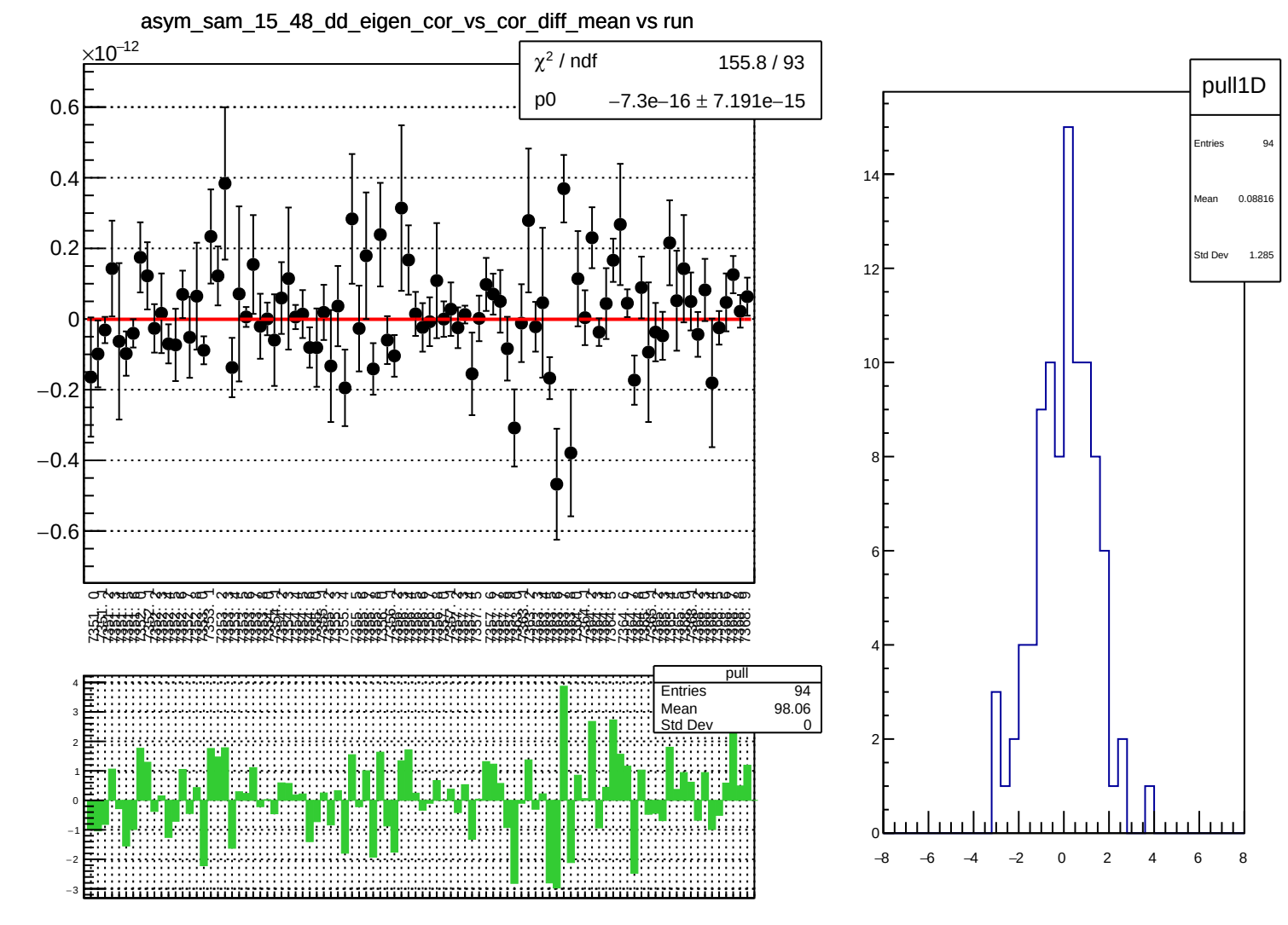

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.068e+04 / 93
p0 0.003985 ± 3.005e−06
0.005
0.0045
0.004
0.0035
0.003
0.0025

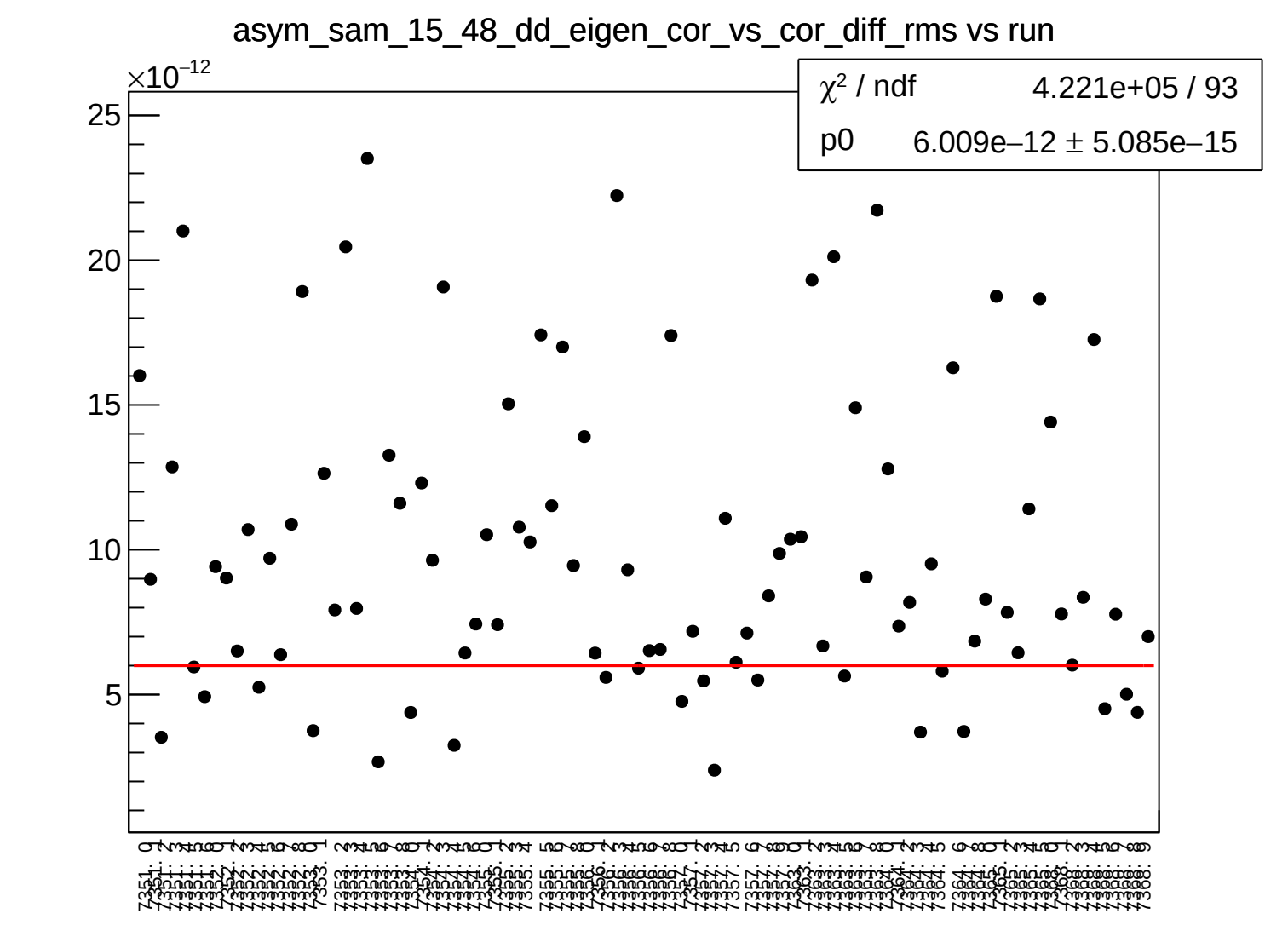

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 131.6 / 93
p0 0.1162 ± 0.1008
pull
Entries 94
Mean −125.3
Std Dev 0
pull1D
Entries 94
Mean −0.02896
Std Dev 1.183

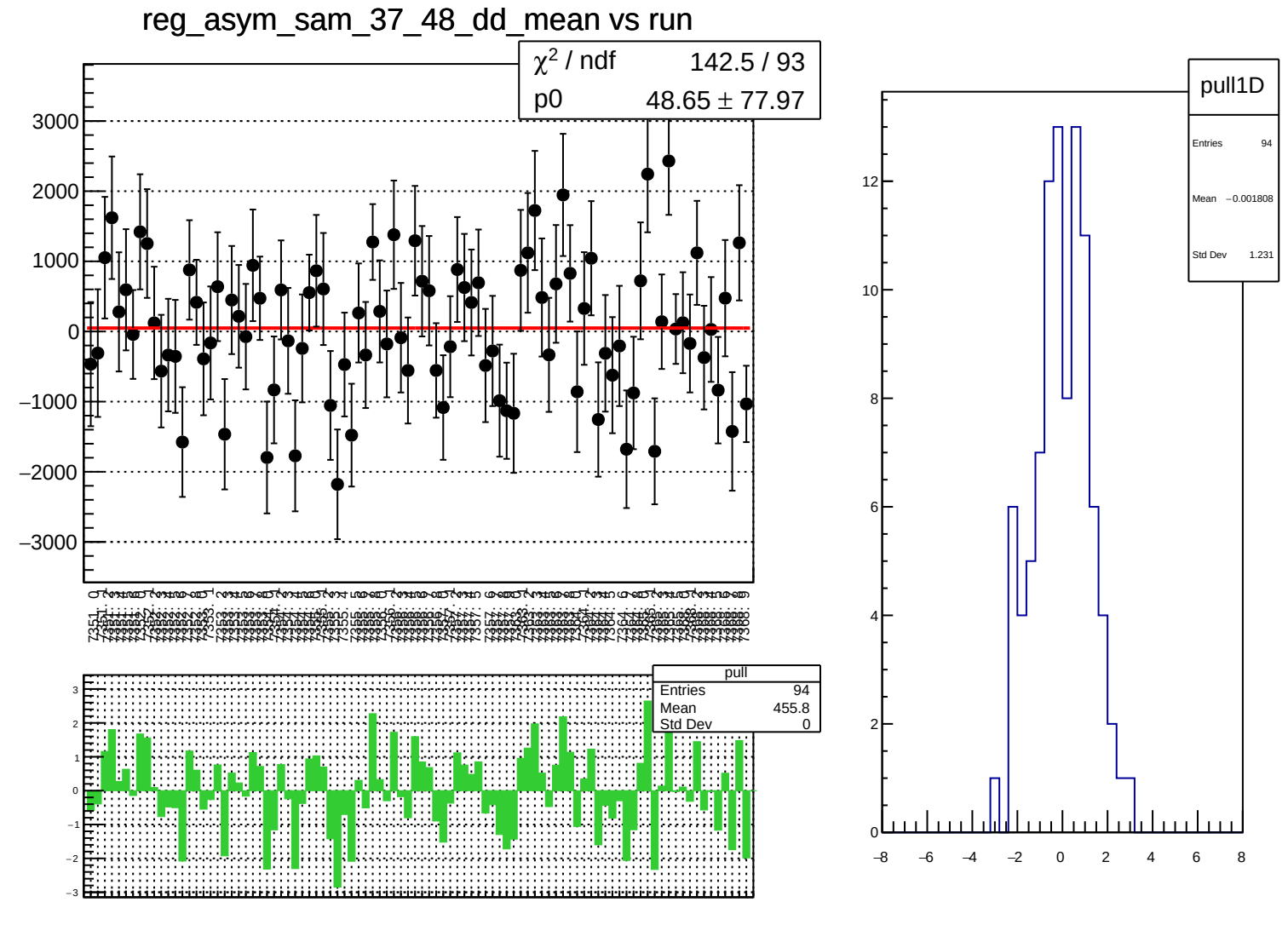

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.505e+04 / 93
p0 93.6 ± 0.0713
250
200
150
100
50

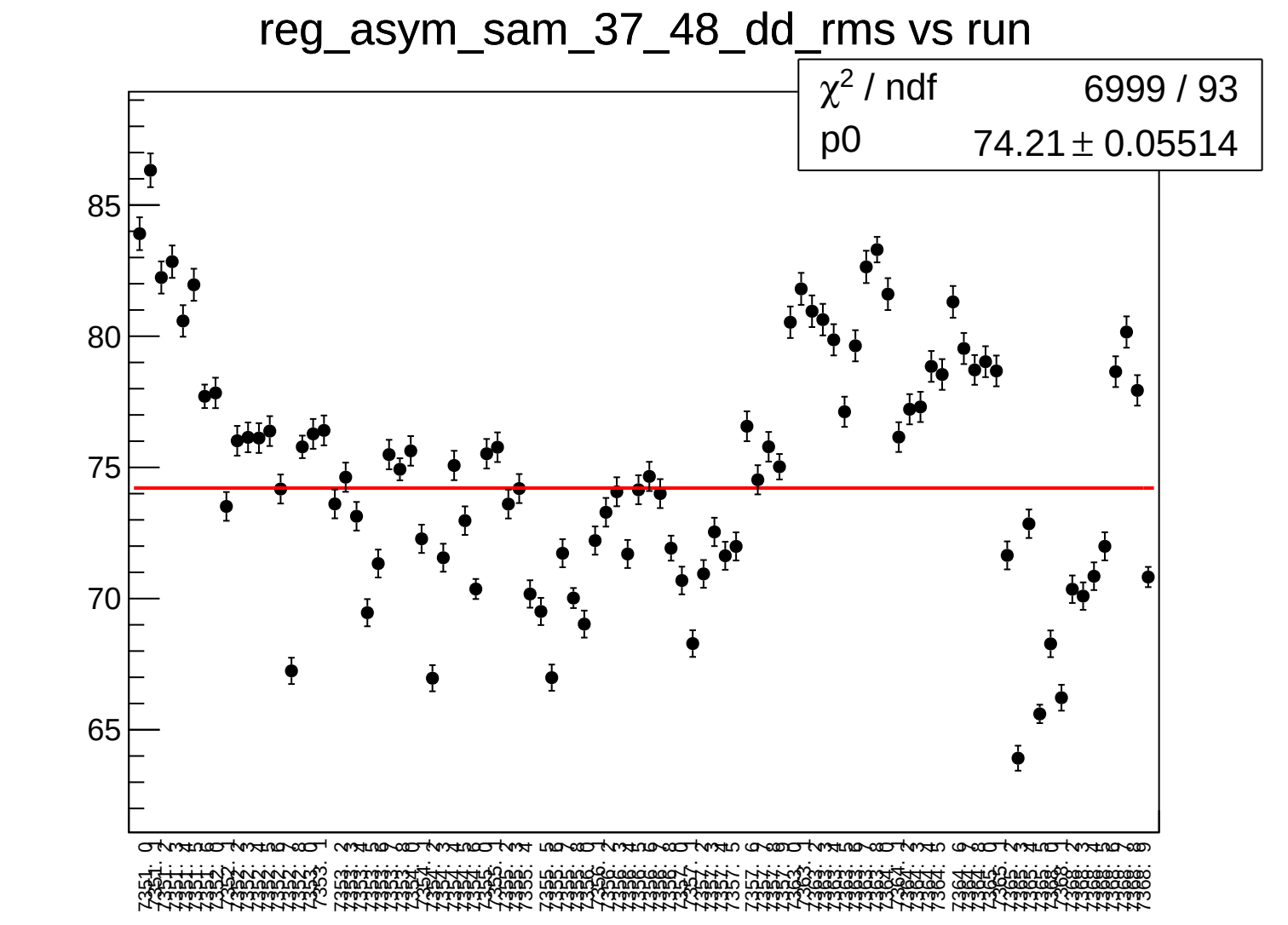

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 131.6 / 93
p0 0.1162 ± 0.1008
pull
Entries 94
Mean −125.3
Std Dev 0
pull1D
Entries 94
Mean −0.02896
Std Dev 1.183

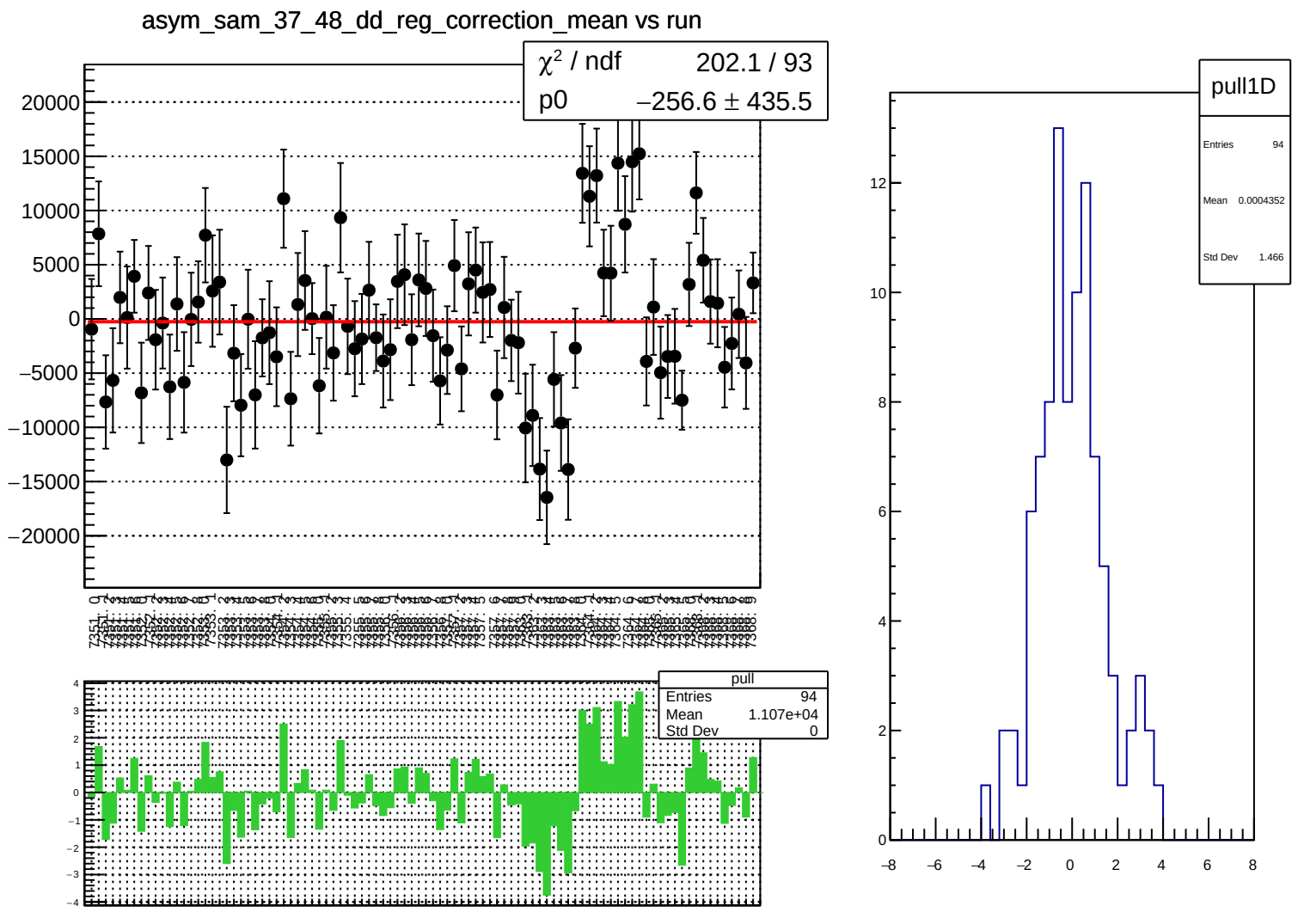

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.505e+04 / 93
p0 93.6 ± 0.0713
250
200
150
100
50

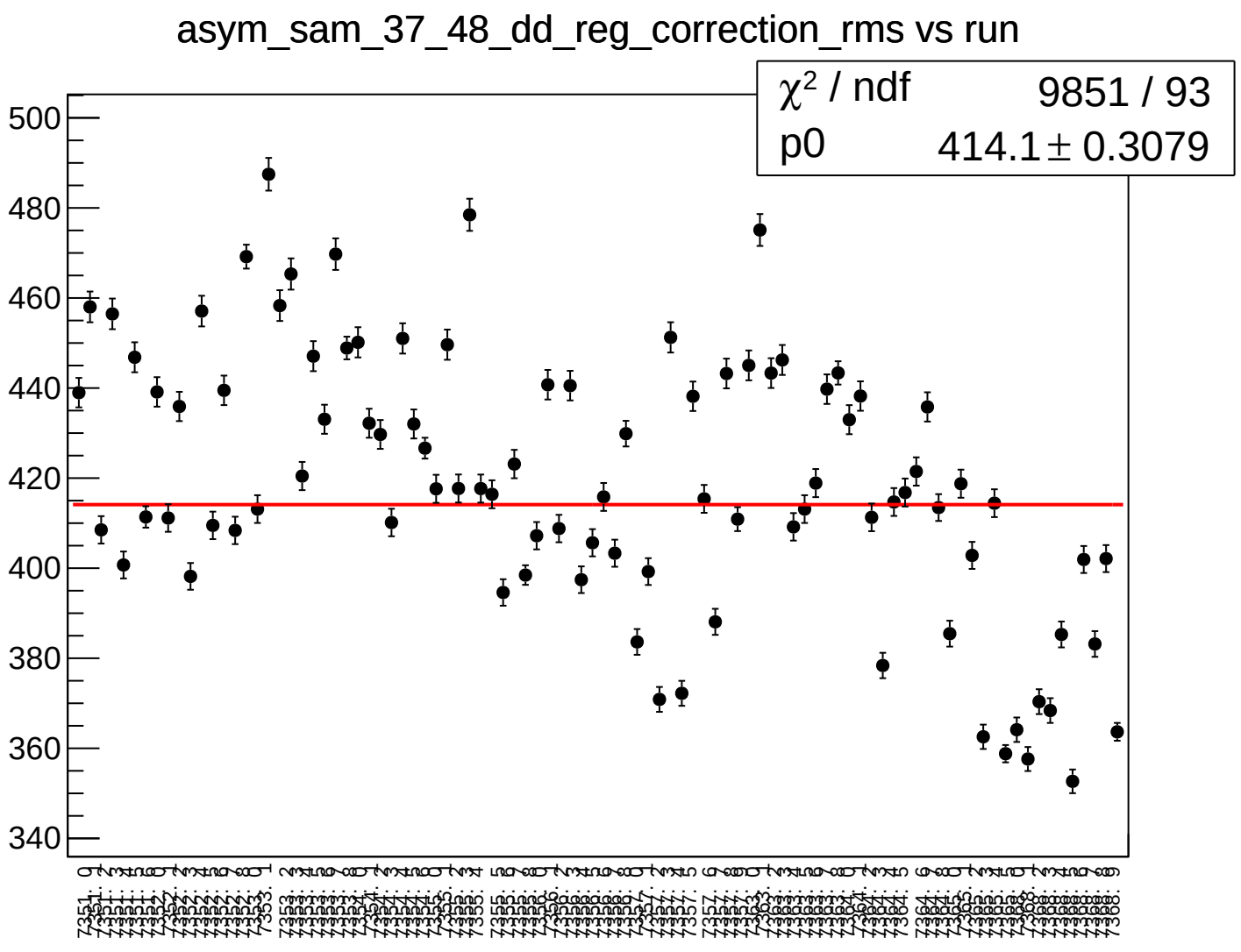

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 155.8 / 93
p0 −7.3e−16 ± 7.191e−15
pull
Entries 94
Mean 98.06
Std Dev 0
pull1D
Entries 94
Mean 0.08816
Std Dev 1.285

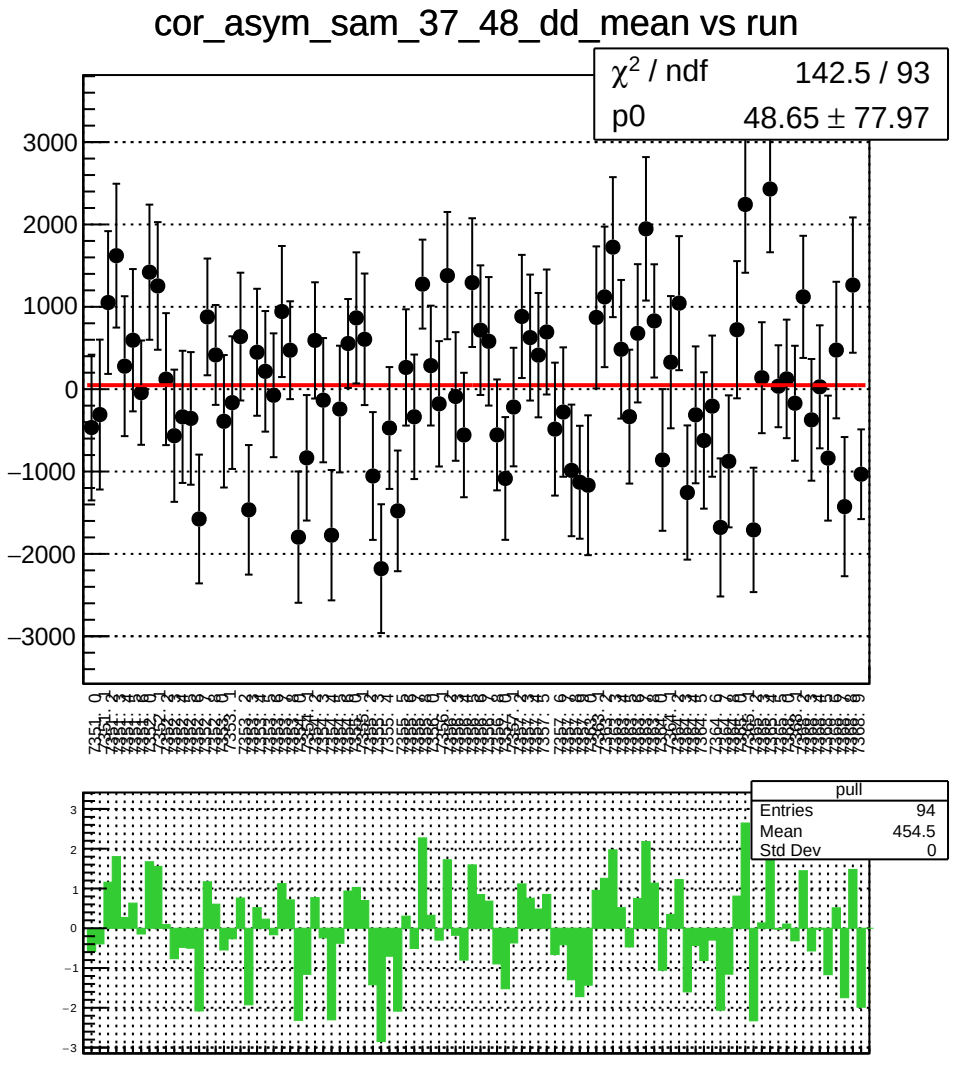

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.221e+05 / 93
p0 6.009e−12 ± 5.085e−15
25
20
15
10
5

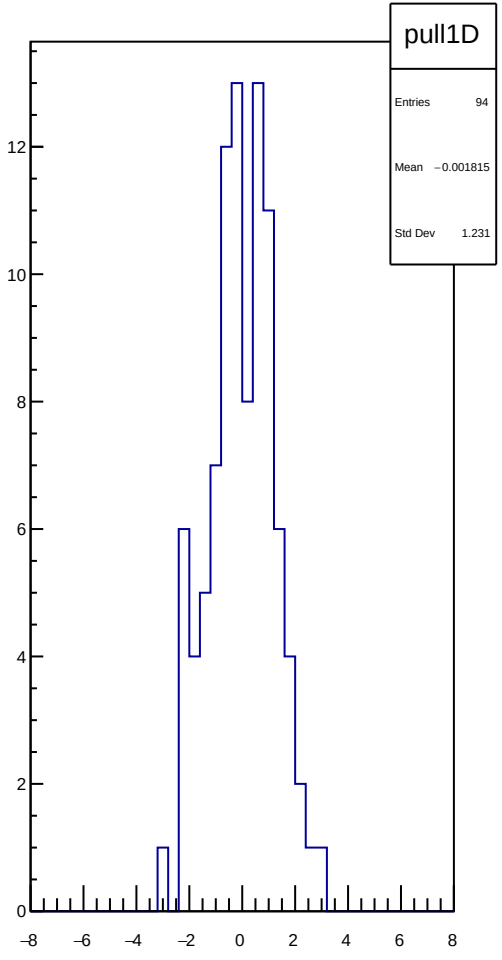

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 142.5 / 93
p0 48.65 ± 77.97
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 94
Mean 455.8
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.001808
Std Dev 1.231
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

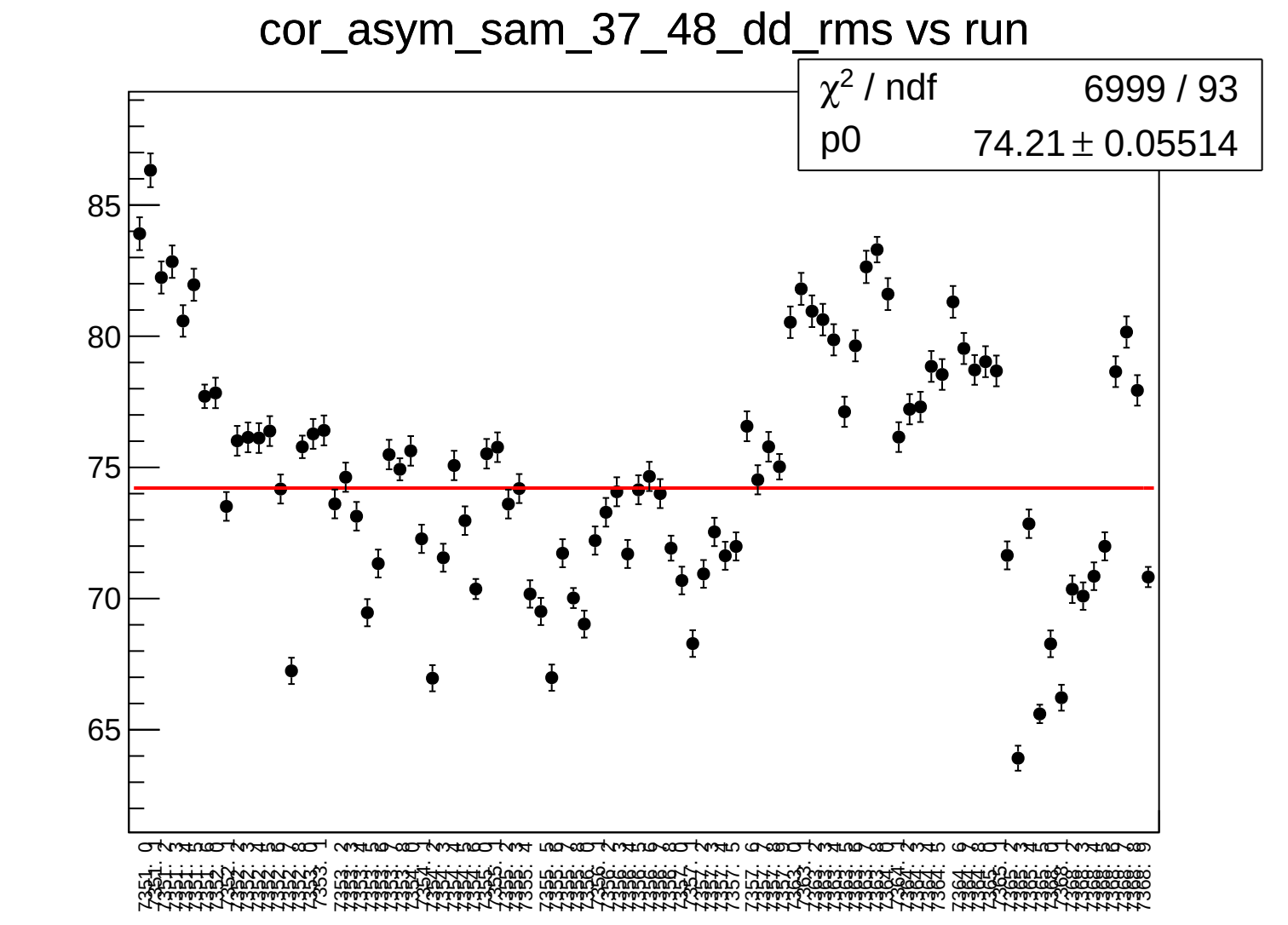

reg_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 6999 / 93
p0 74.21 ± 0.05514
85
80
75
70
65

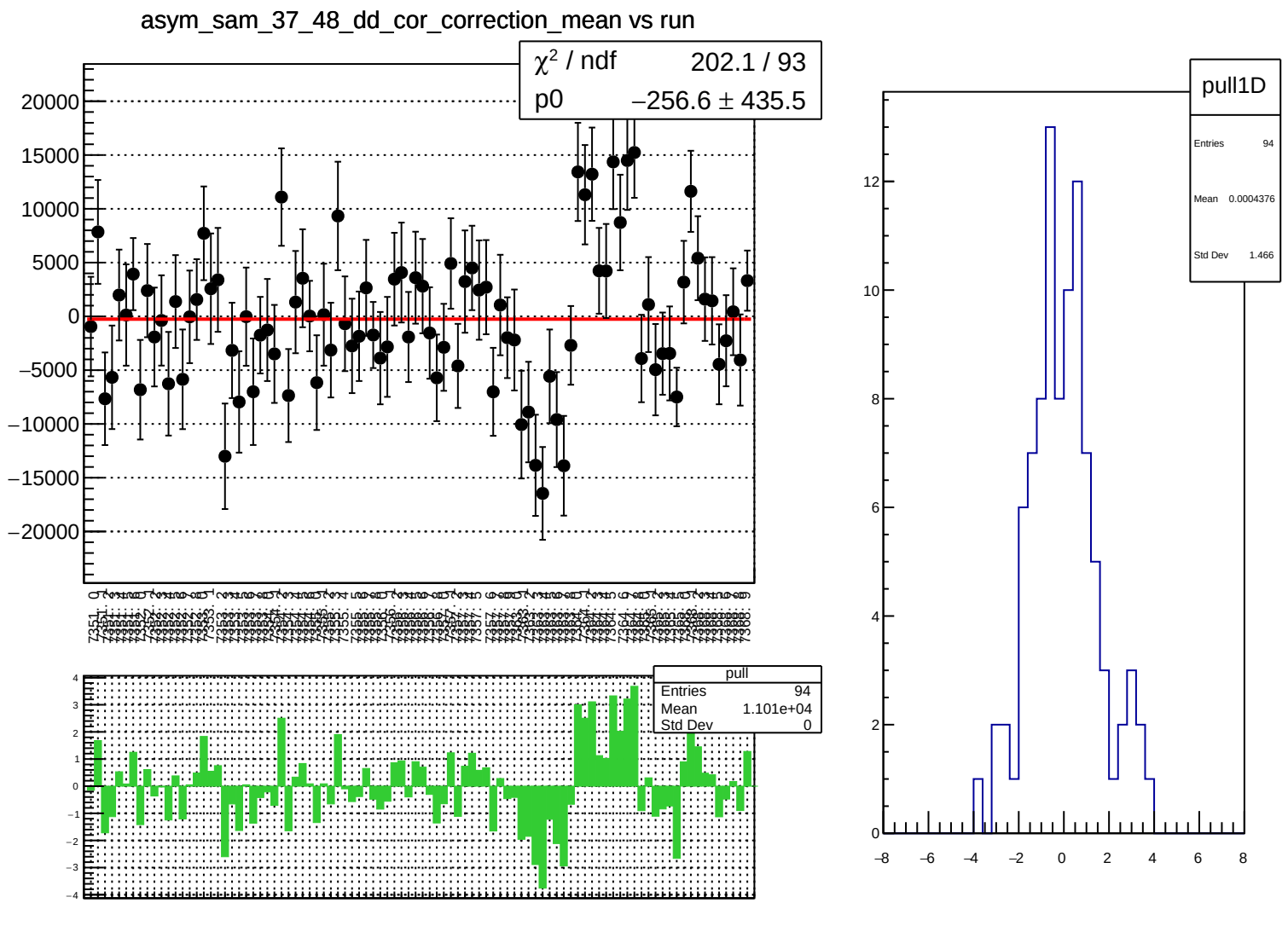

asym_sam_37_48_dd_reg_correction_mean vs run
χ² / ndf 202.1 / 93
p0 −256.6 ± 435.5
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 94
Mean 1.107e+04
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 94
Mean 0.0004352
Std Dev 1.466
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

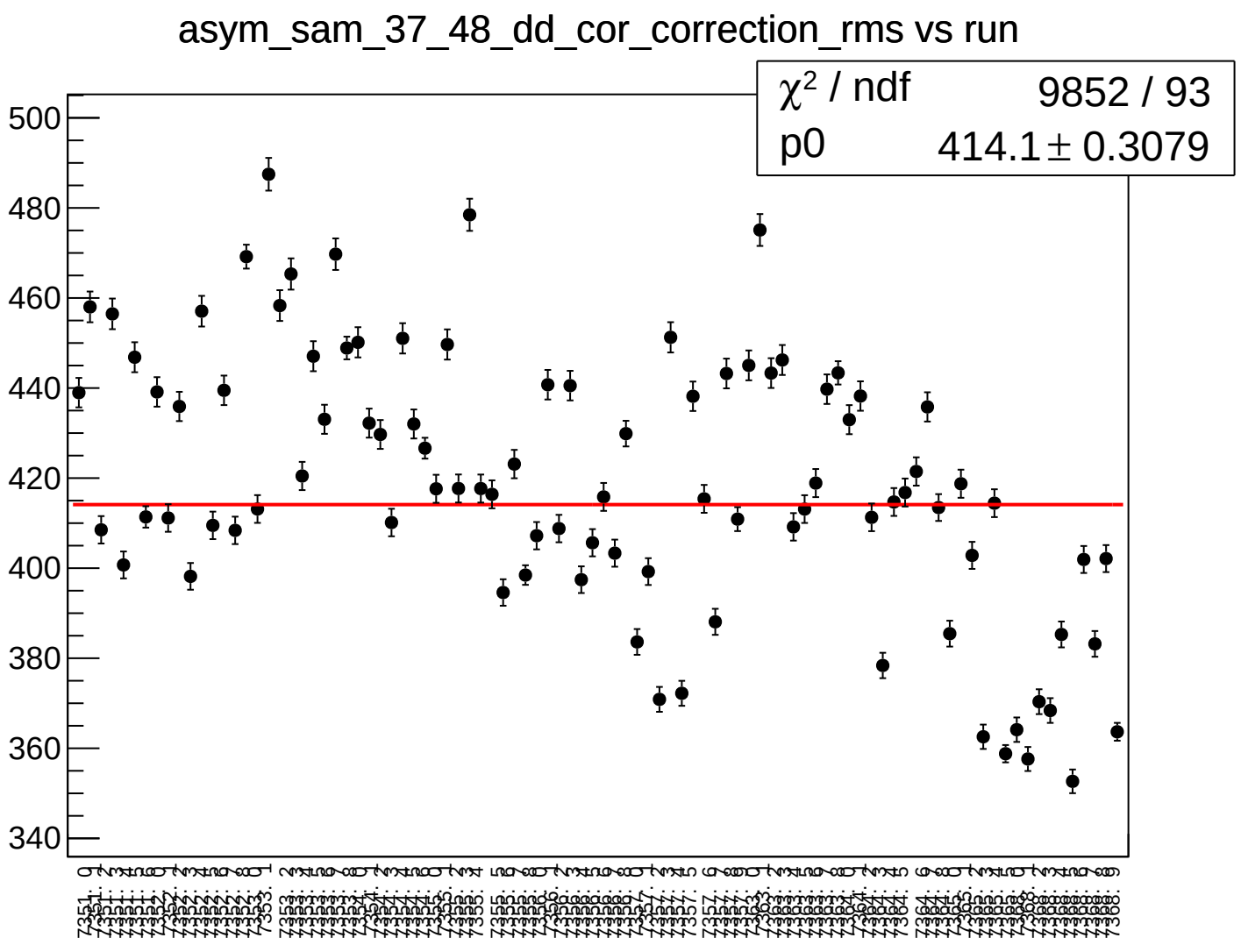

asym_sam_37_48_dd_reg_correction_rms vs run
χ² / ndf 9851 / 93
p0 414.1 ± 0.3079
500
480
460
440
420
400
380
360
340

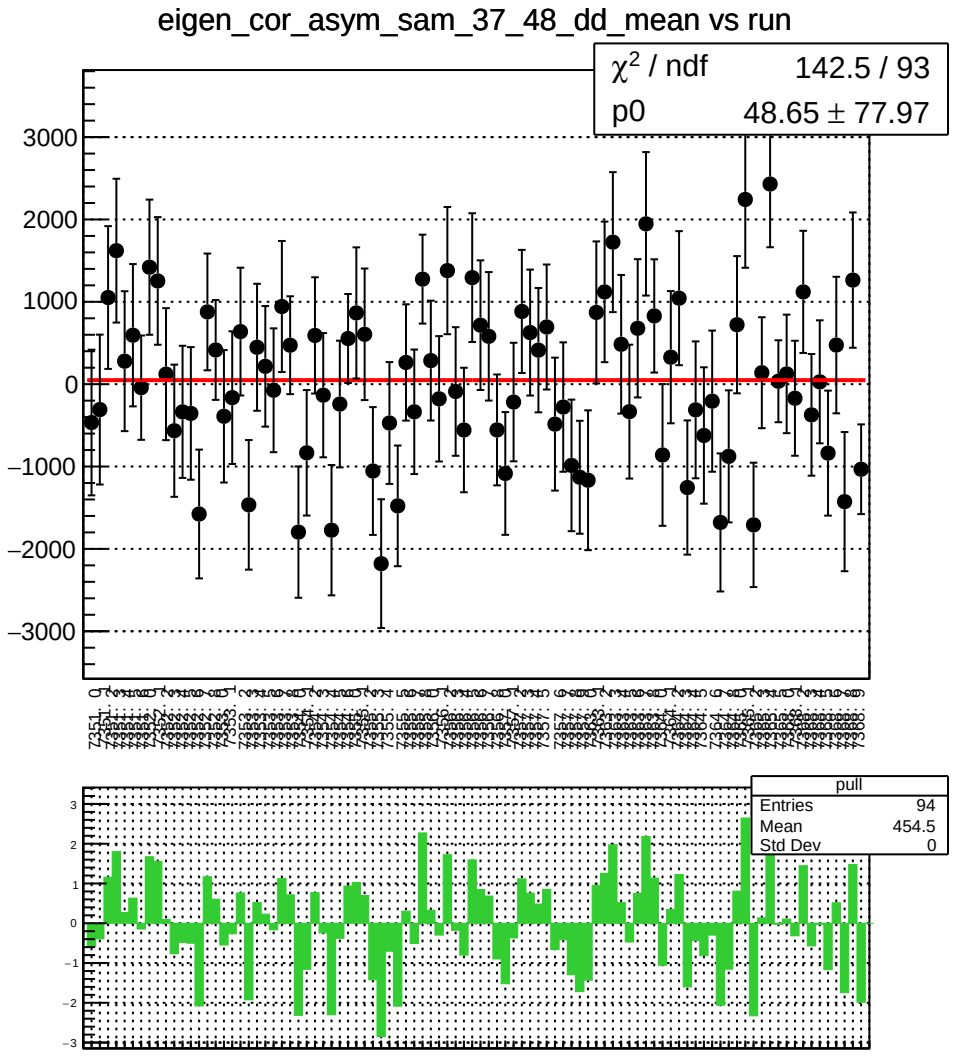

cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 142.5 / 93
p0 48.65 ± 77.97
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 94
Mean 454.5
Std Dev 0
3
2
1
0
−1
−2
−3

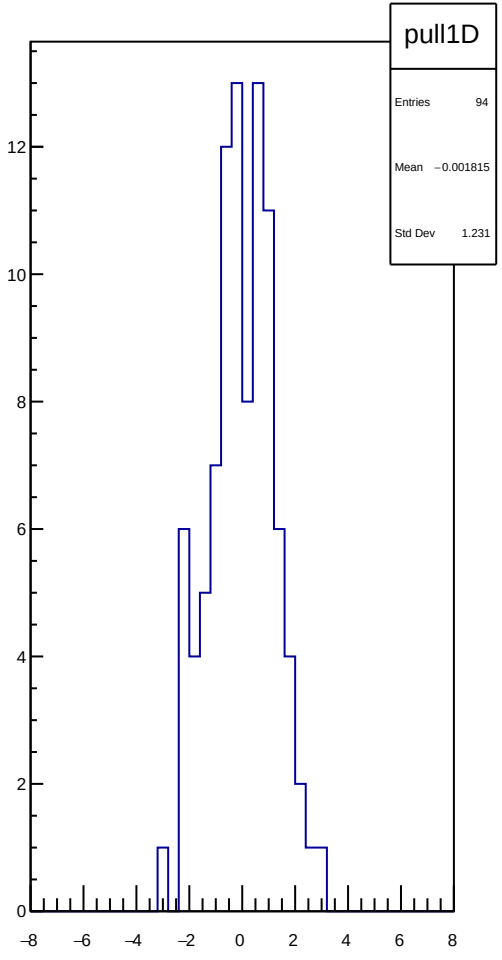

pull1D
Entries 94
Mean −0.001815
Std Dev 1.231
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

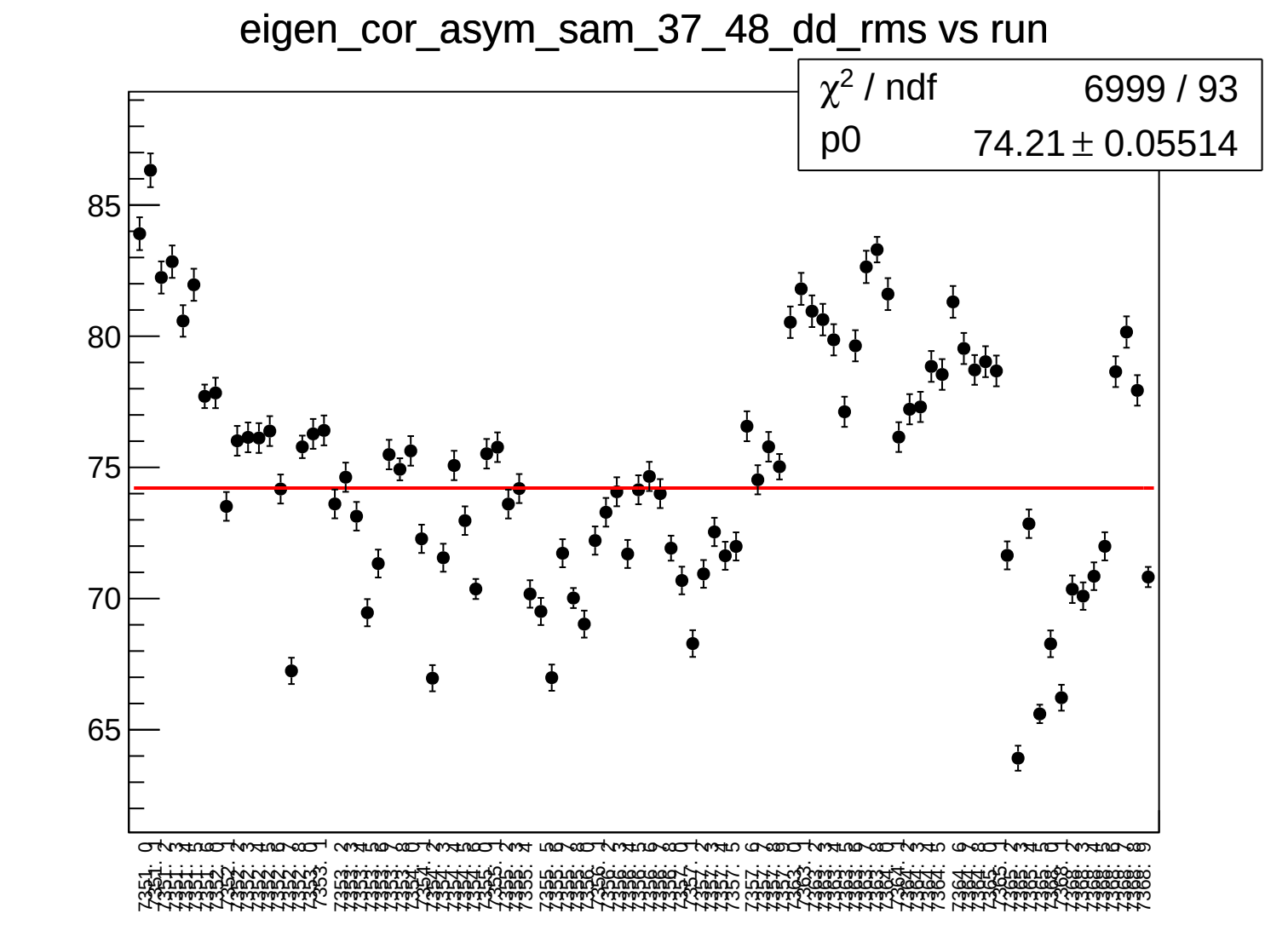

cor_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 6999 / 93
p0 74.21 ± 0.05514
85
80
75
70
65

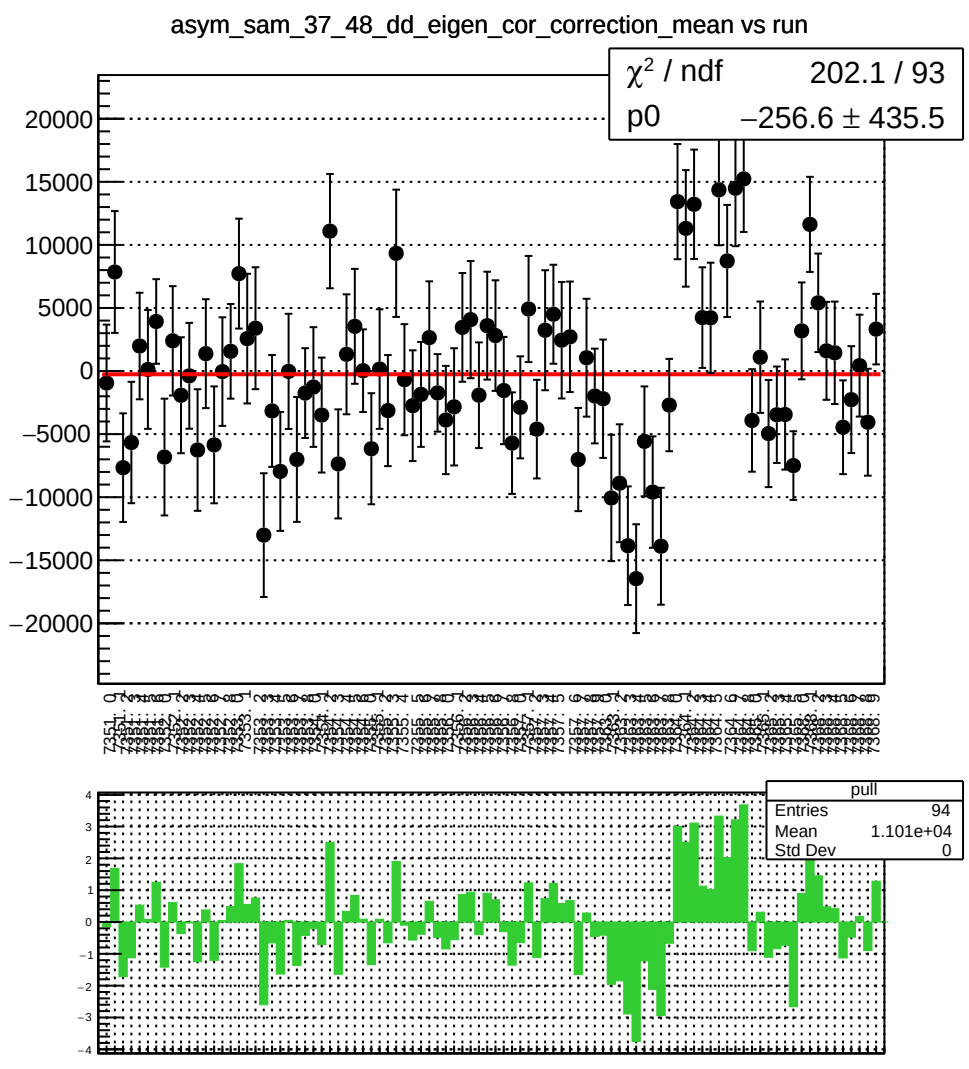

asym_sam_37_48_dd_cor_correction_mean vs run
χ² / ndf 202.1 / 93
p0 −256.6 ± 435.5
pull
Entries 94
Mean 1.101e+04
Std Dev 0
pull1D
Entries 94
Mean 0.0004376
Std Dev 1.466

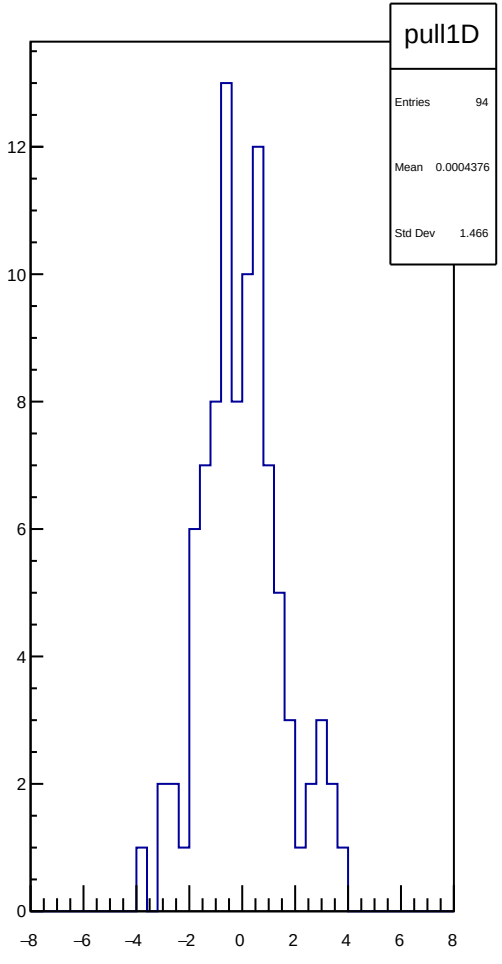

asym_sam_37_48_dd_cor_correction_rms vs run
χ² / ndf 9852 / 93
p0 414.1 ± 0.3079
500
480
460
440
420
400
380
360
340

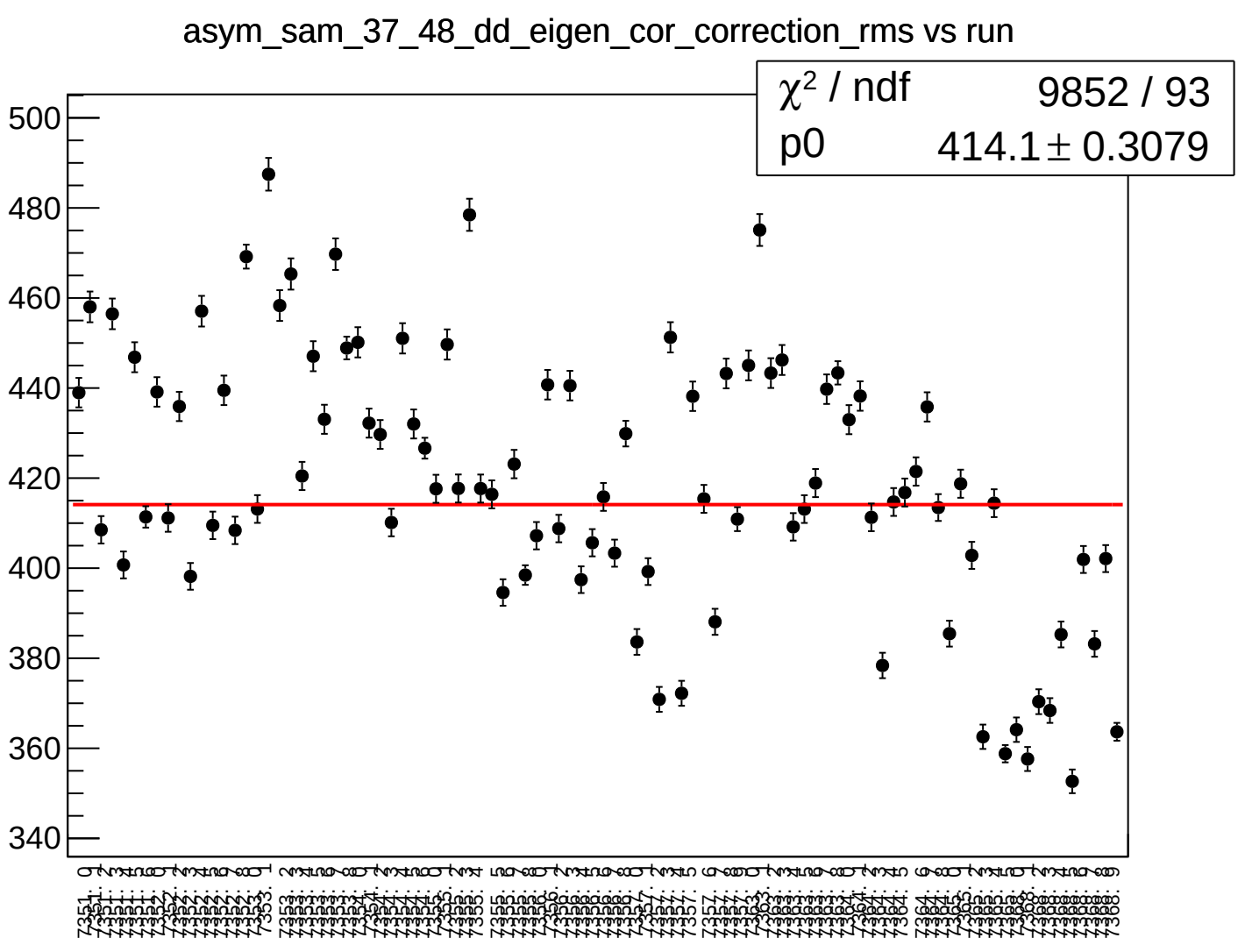

eigen_cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 142.5 / 93
p0 48.65 ± 77.97
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 94
Mean 454.5
Std Dev 0
3
2
1
0
−1
−2
−3

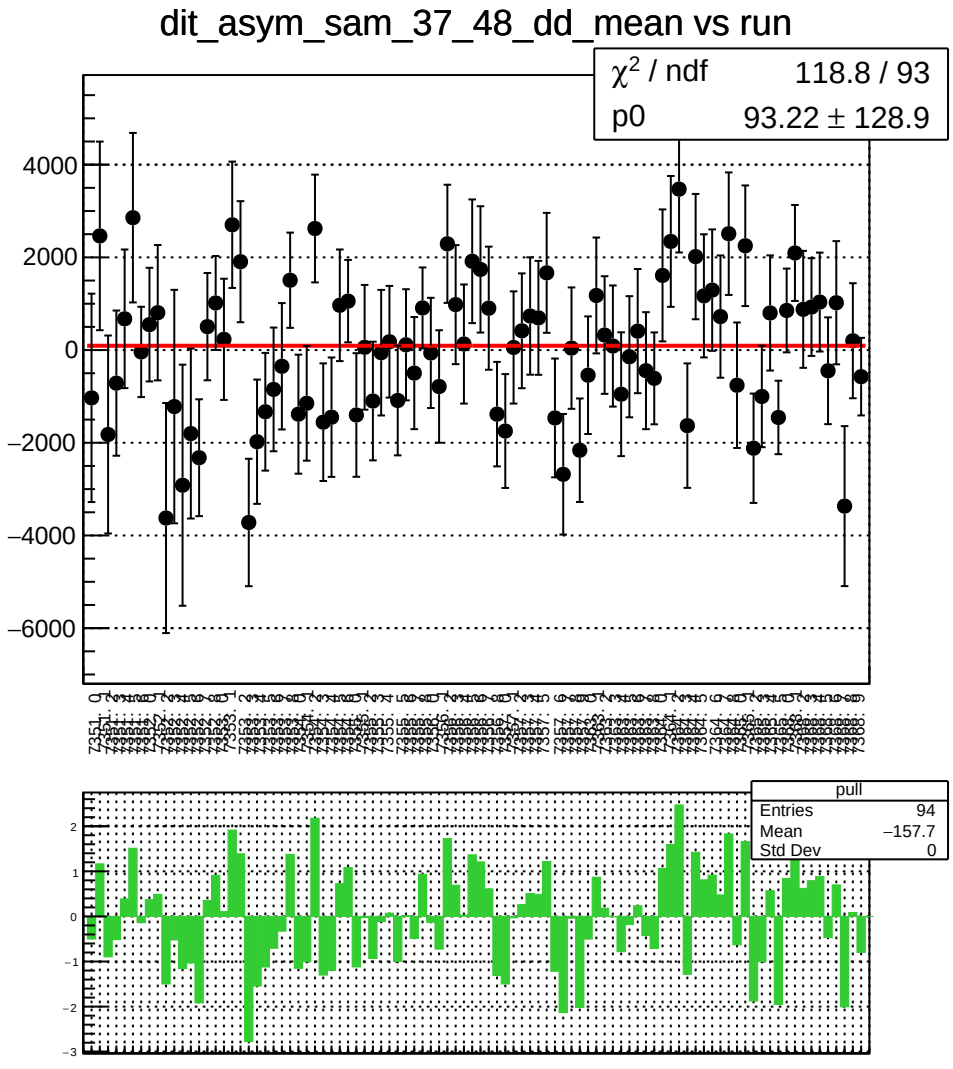

pull1D
Entries 94
Mean −0.001815
Std Dev 1.231
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

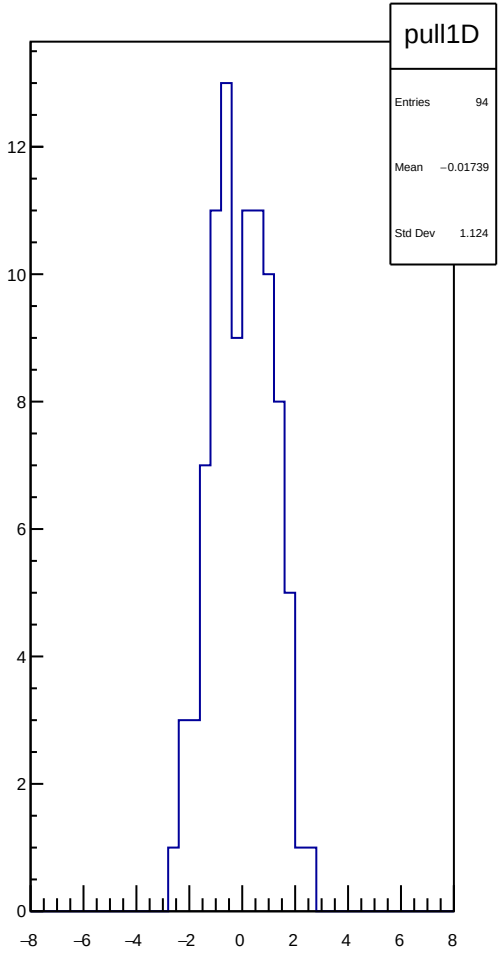

eigen_cor_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 6999 / 93
p0 74.21 ± 0.05514
85
80
75
70
65

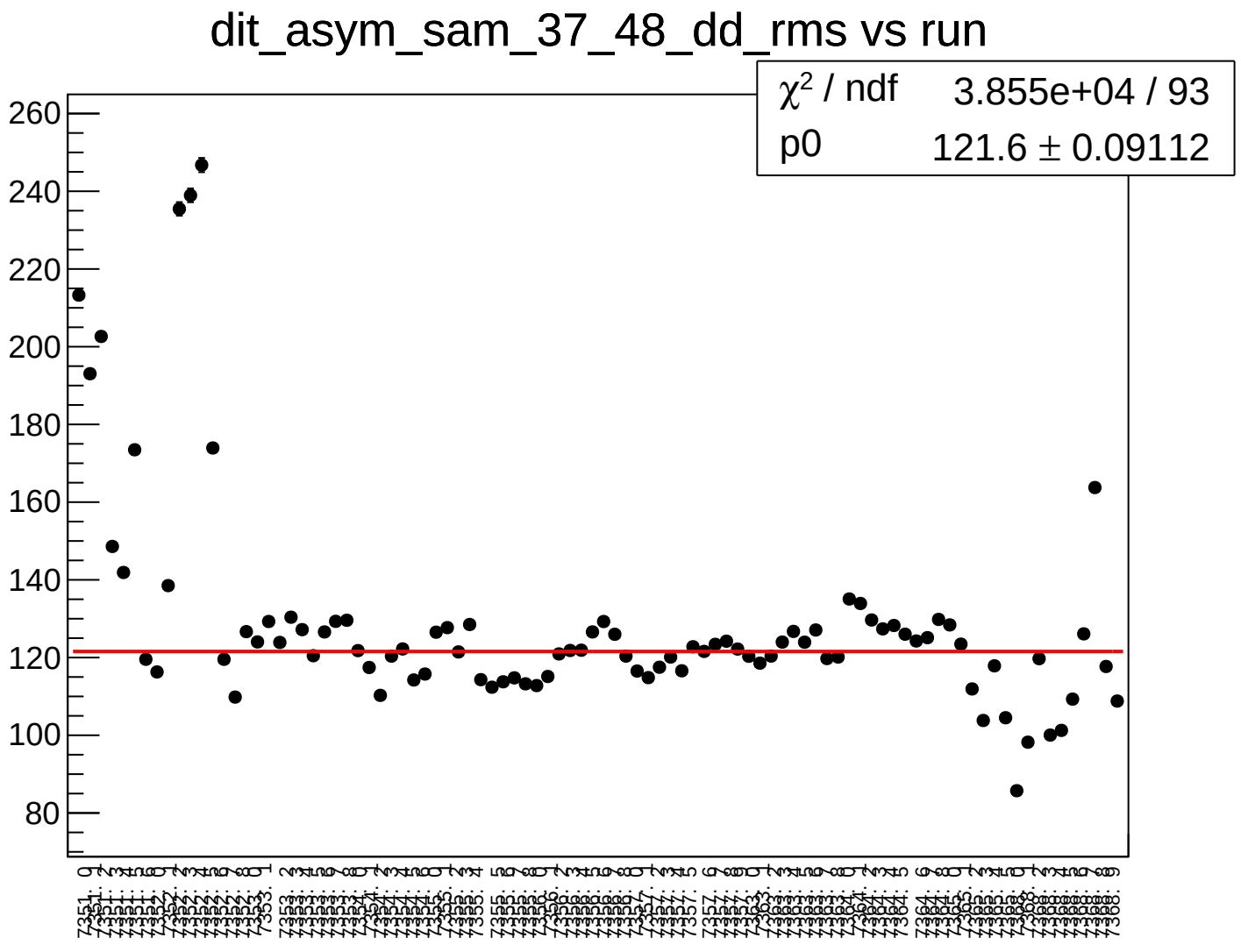

asym_sam_37_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 202.1 / 93
p0 −256.6 ± 435.5
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 94
Mean 1.101e+04
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4

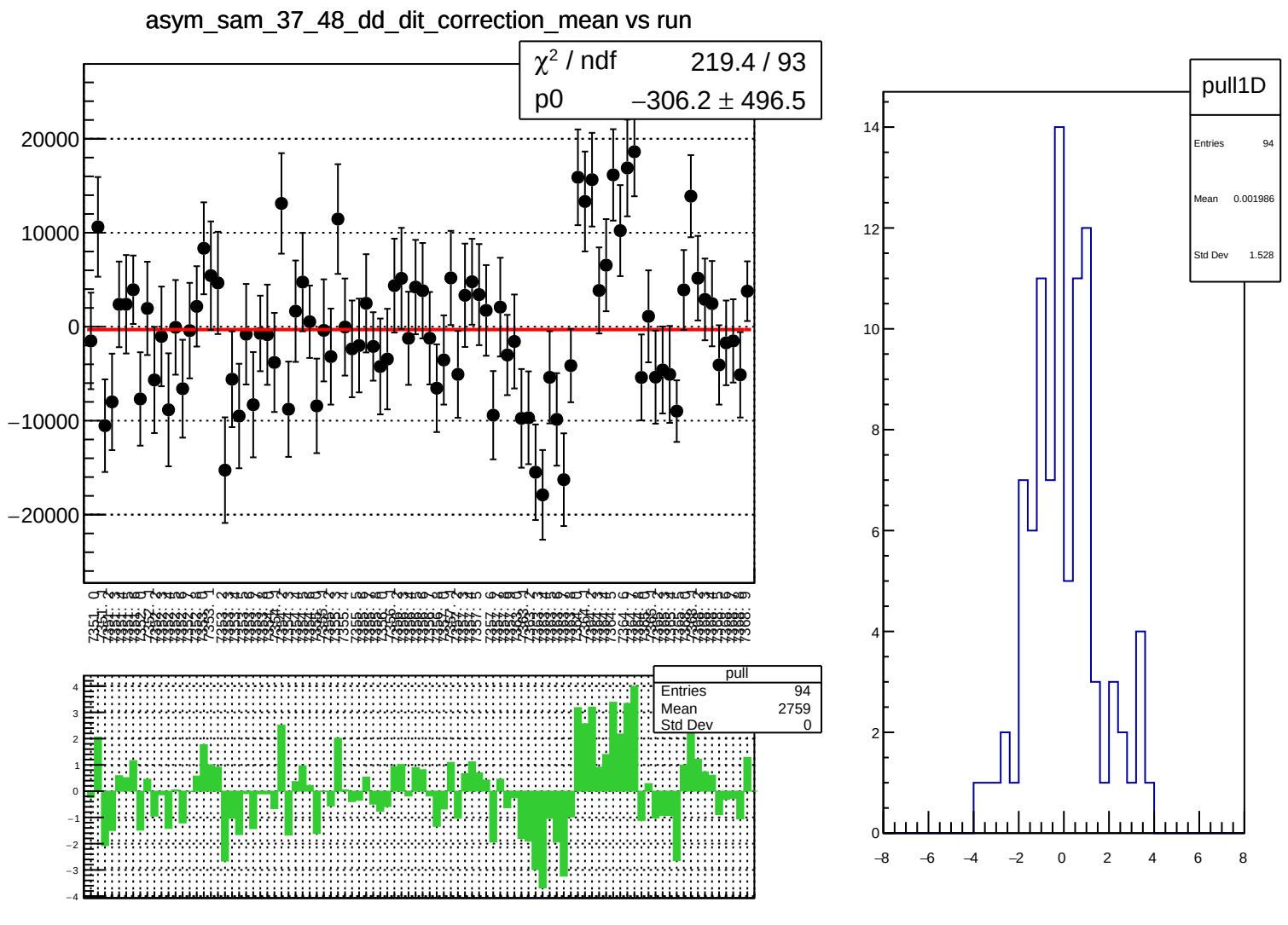

pull1D
Entries 94
Mean 0.0004376
Std Dev 1.466
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

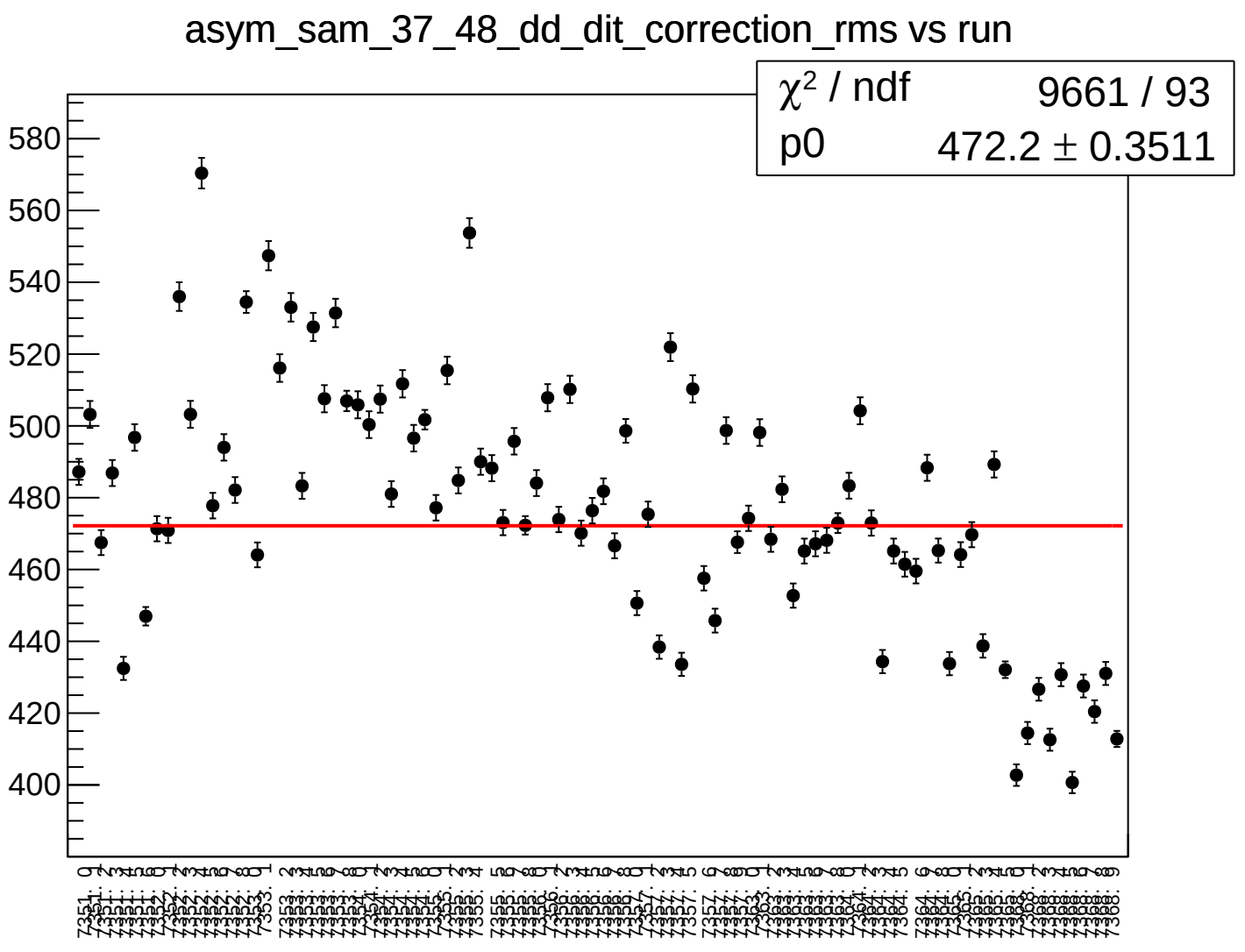

asym_sam_37_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 9852 / 93
p0 414.1 ± 0.3079
500
480
460
440
420
400
380
360
340

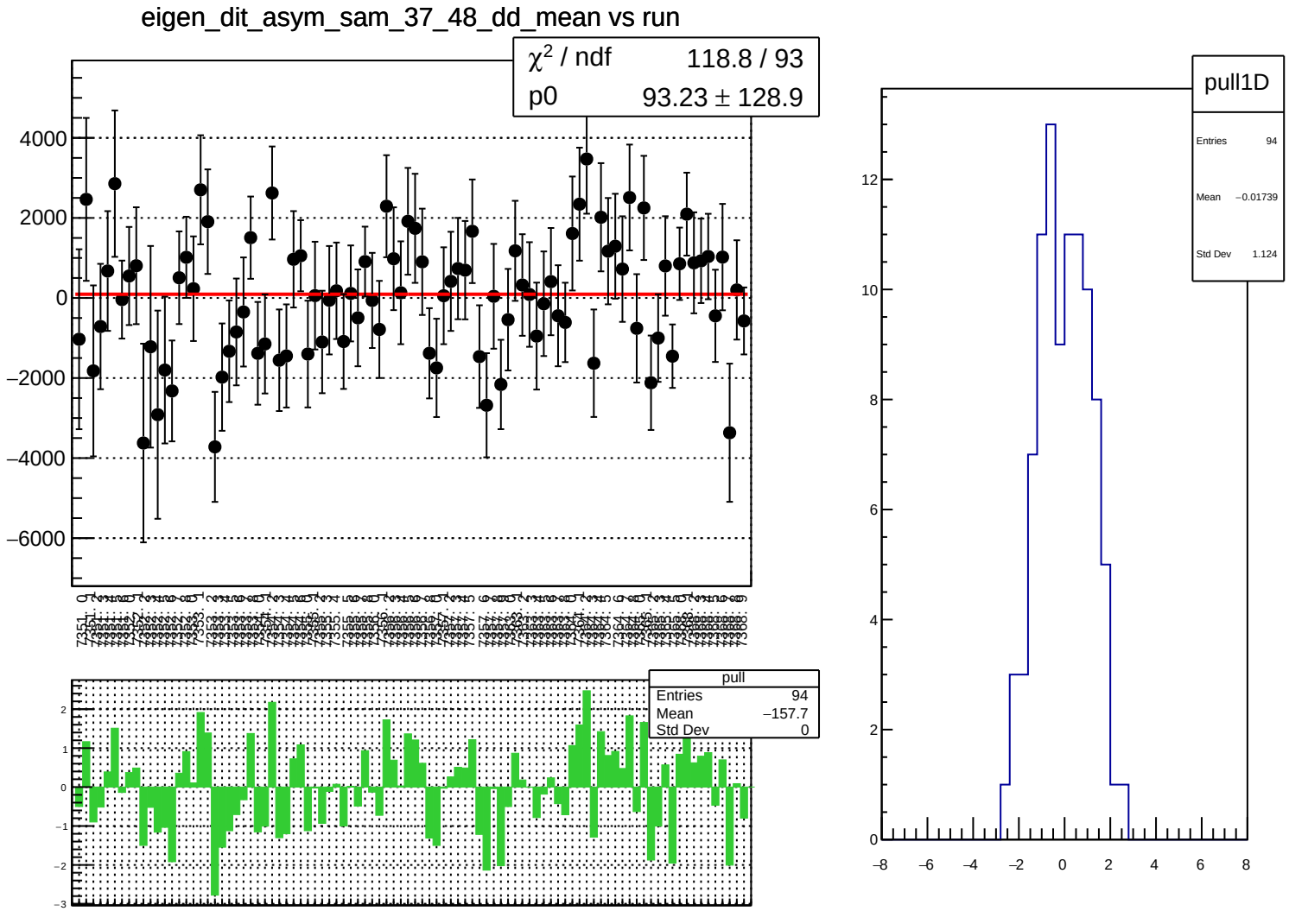

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 118.8 / 93
p0 93.22 ± 128.9
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean −157.7
Std Dev 0
2
1
0
−1
−2
−3

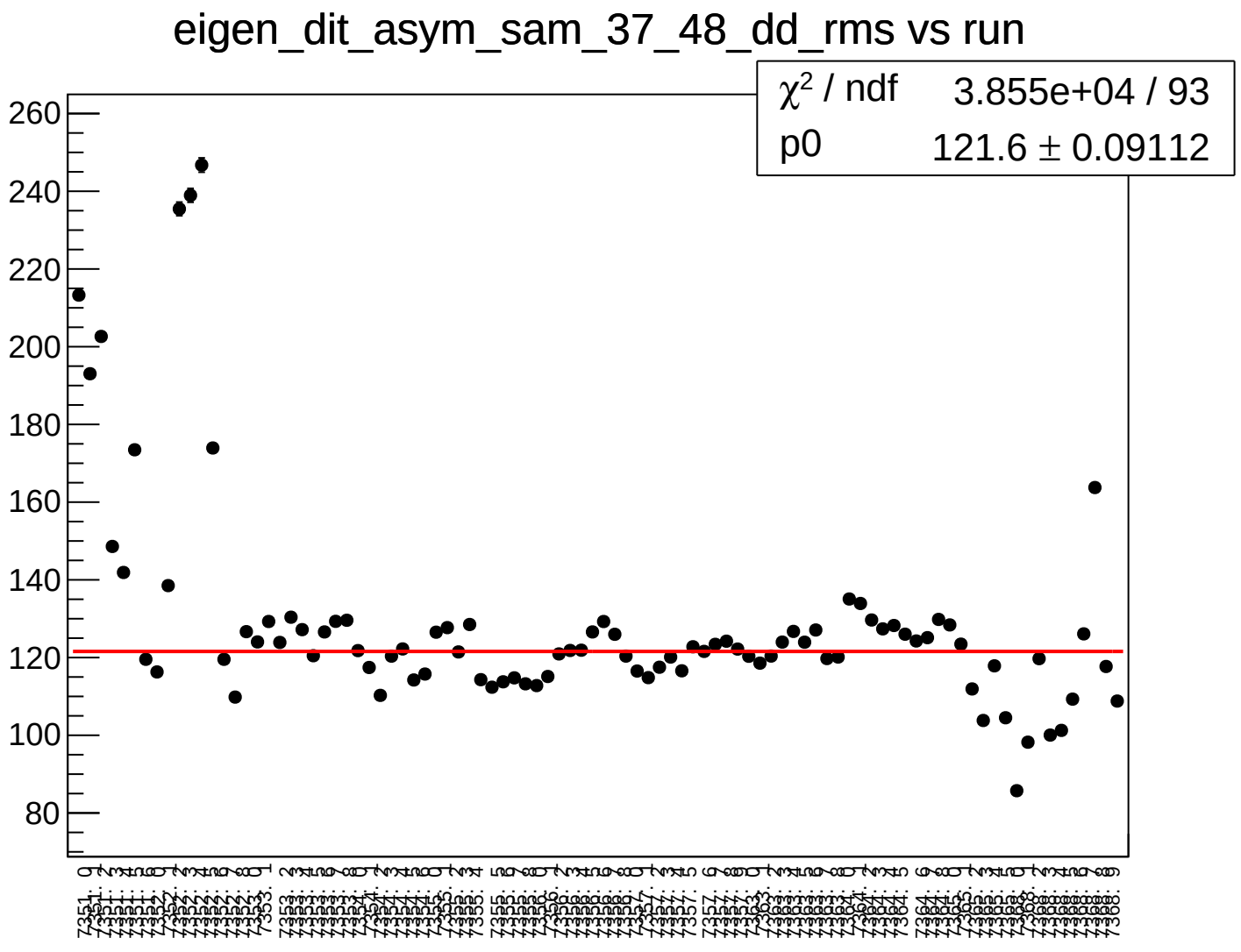

pull1D
Entries 94
Mean −0.01739
Std Dev 1.124
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

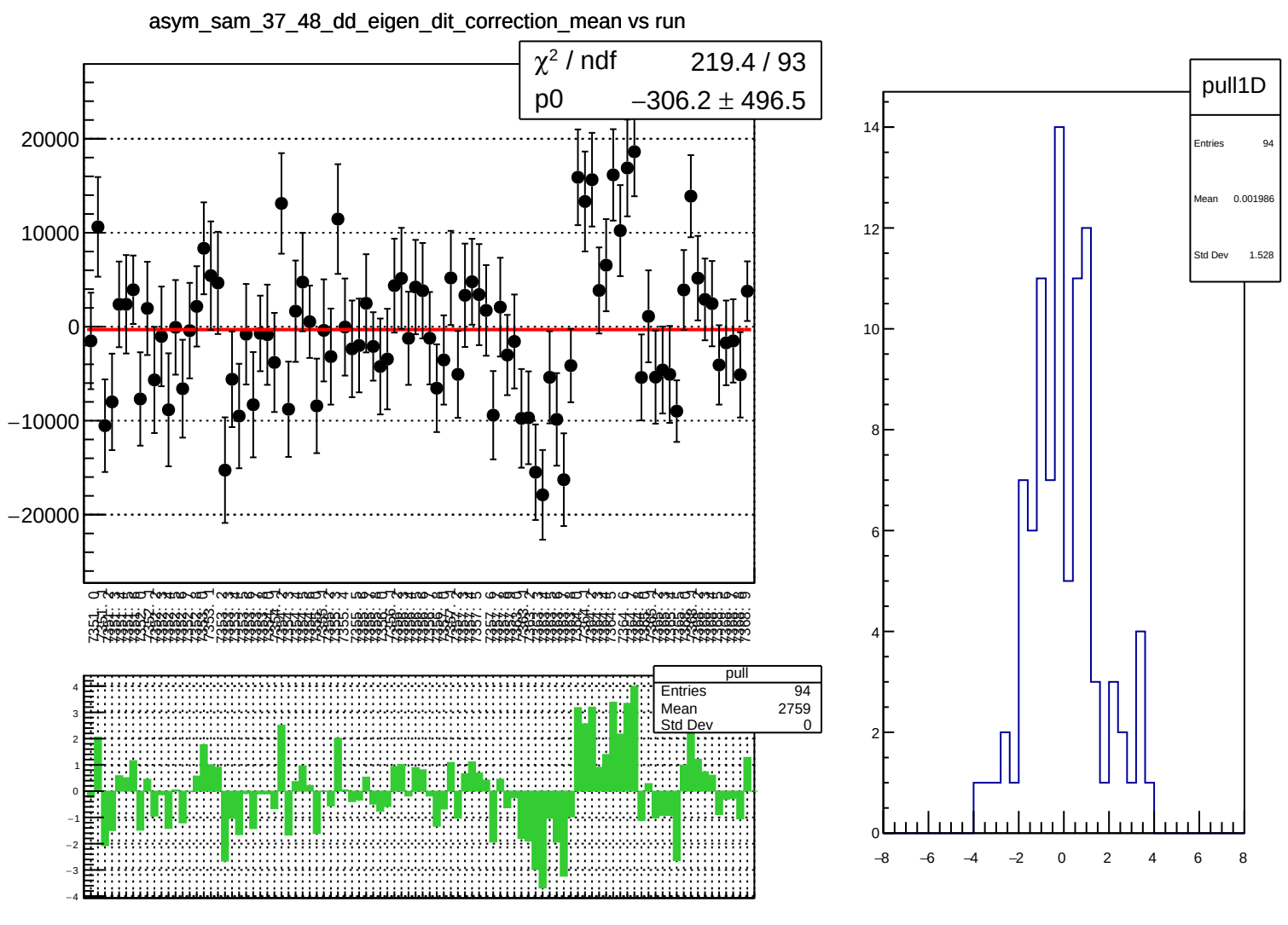

dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 3.855e+04 / 93
p0 121.6 ± 0.09112
260
240
220
200
180
160
140
120
100
80

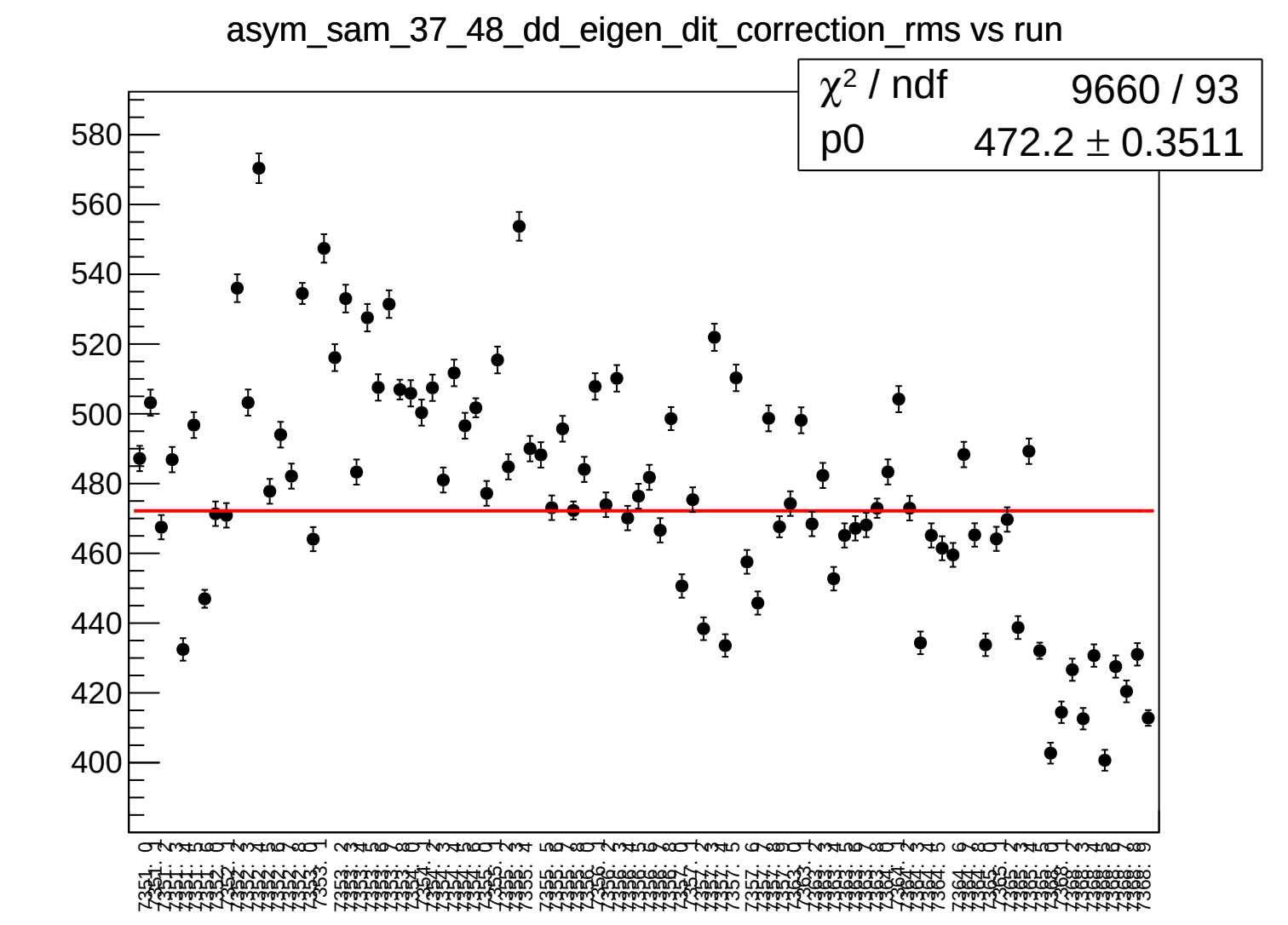

asym_sam_37_48_dd_dit_correction_mean vs run
χ² / ndf 219.4 / 93
p0 −306.2 ± 496.5
20000
10000
0
−10000
−20000
pull
Entries 94
Mean 2759
Std Dev 0
pull1D
Entries 94
Mean 0.001986
Std Dev 1.528
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

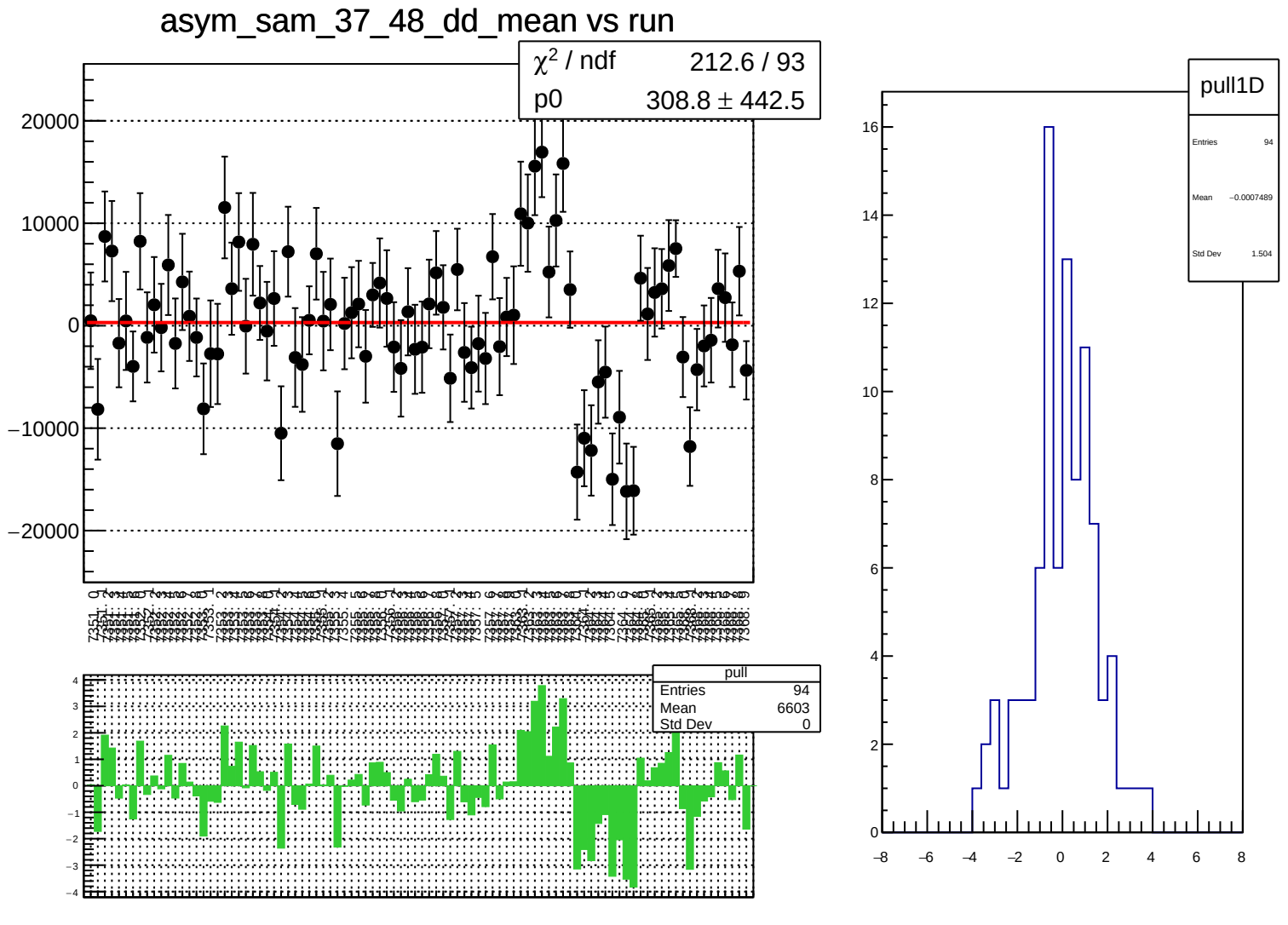

asym_sam_37_48_dd_dit_correction_rms vs run
χ² / ndf 9661 / 93
p0 472.2 ± 0.3511
580
560
540
520
500
480
460
440
420
400

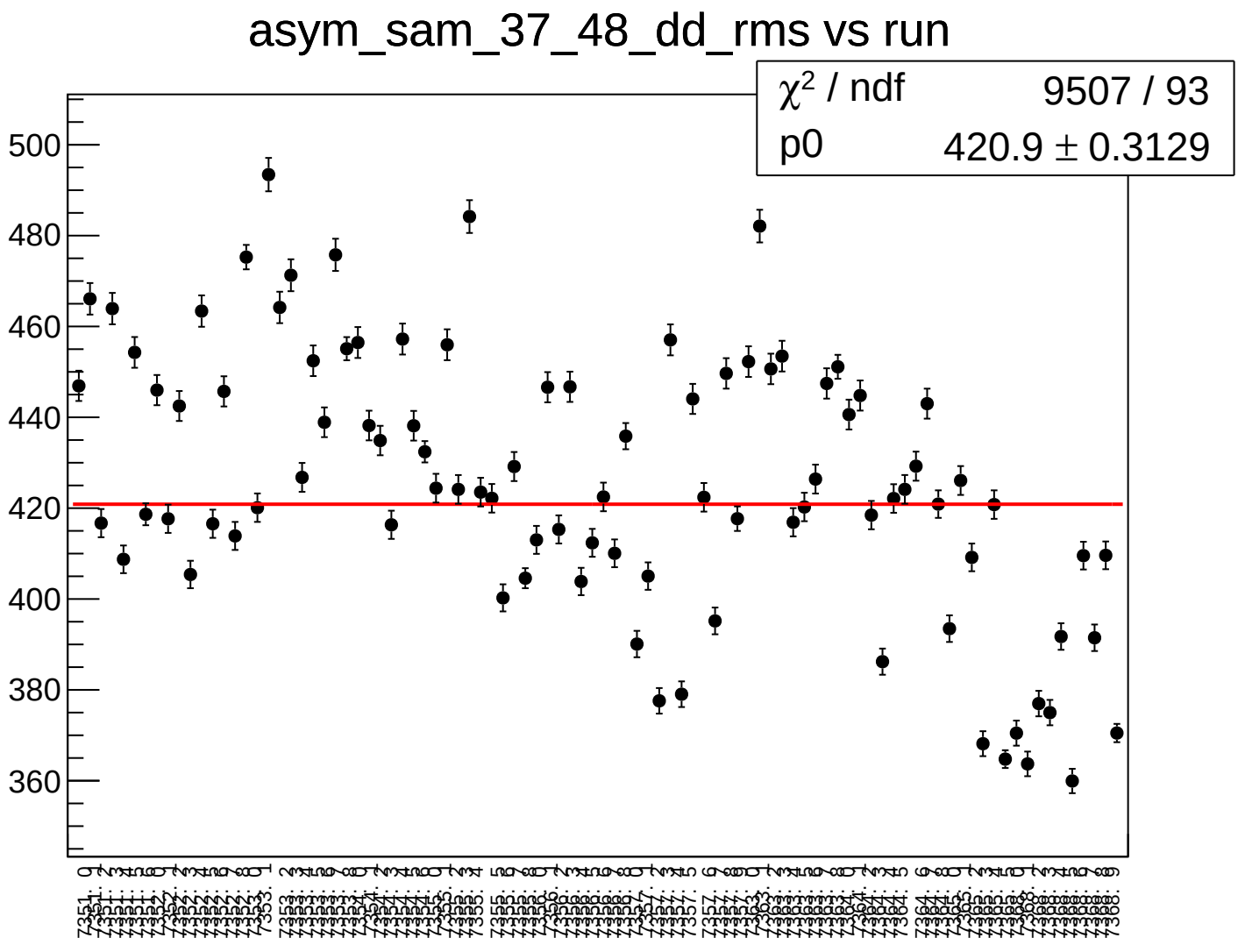

eigen_dit_asym_sam_37_48_dd_mean vs run
χ^2 / ndf 118.8 / 93
p0 93.23 ± 128.9
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean −157.7
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.01739
Std Dev 1.124
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

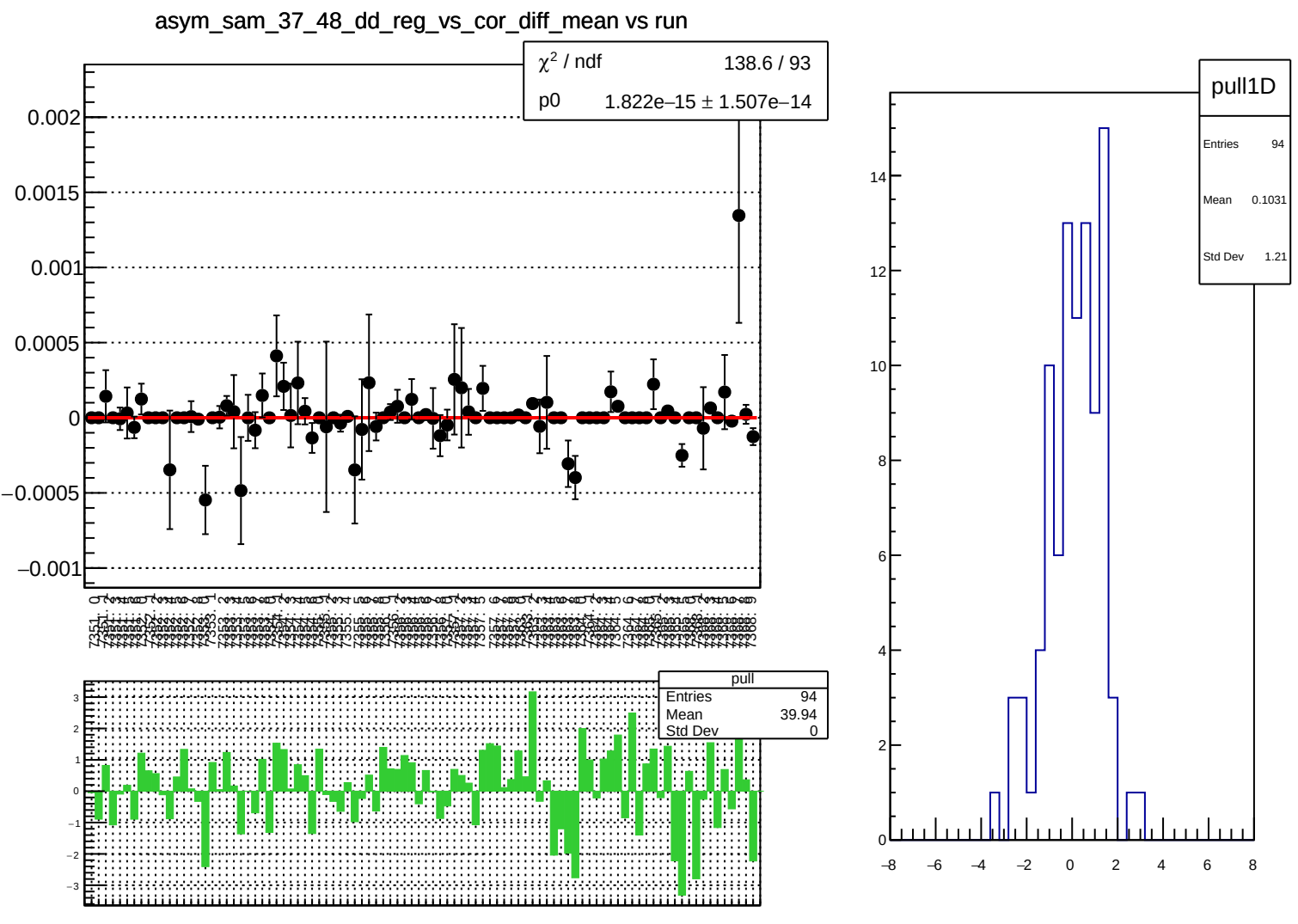

eigen_dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 3.855e+04 / 93
p0 121.6 ± 0.09112
260
240
220
200
180
160
140
120
100
80

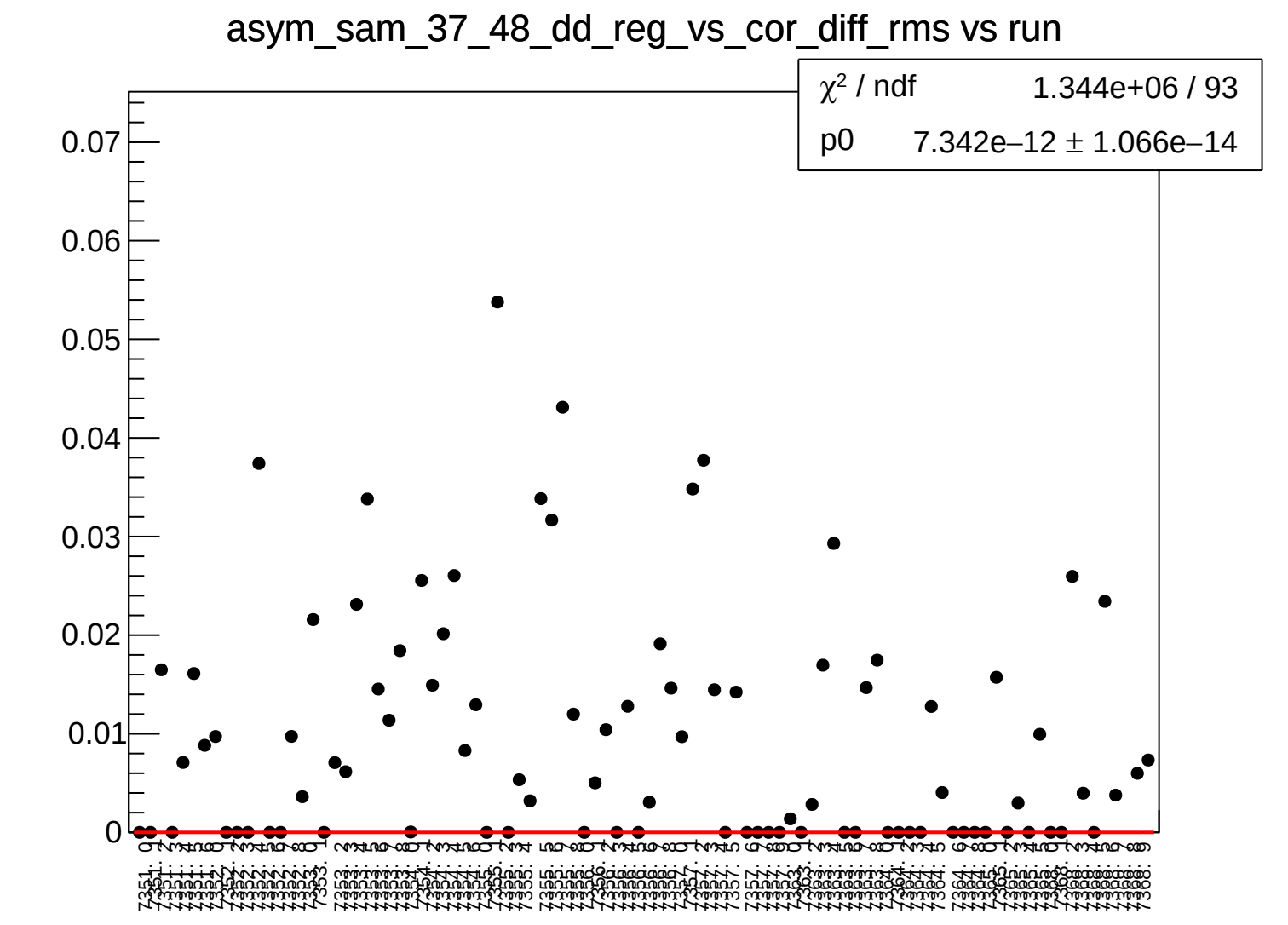

asym_sam_37_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 219.4 / 93
p0 −306.2 ± 496.5
20000
10000
0
−10000
−20000
pull
Entries 94
Mean 2759
Std Dev 0
pull1D
Entries 94
Mean 0.001986
Std Dev 1.528

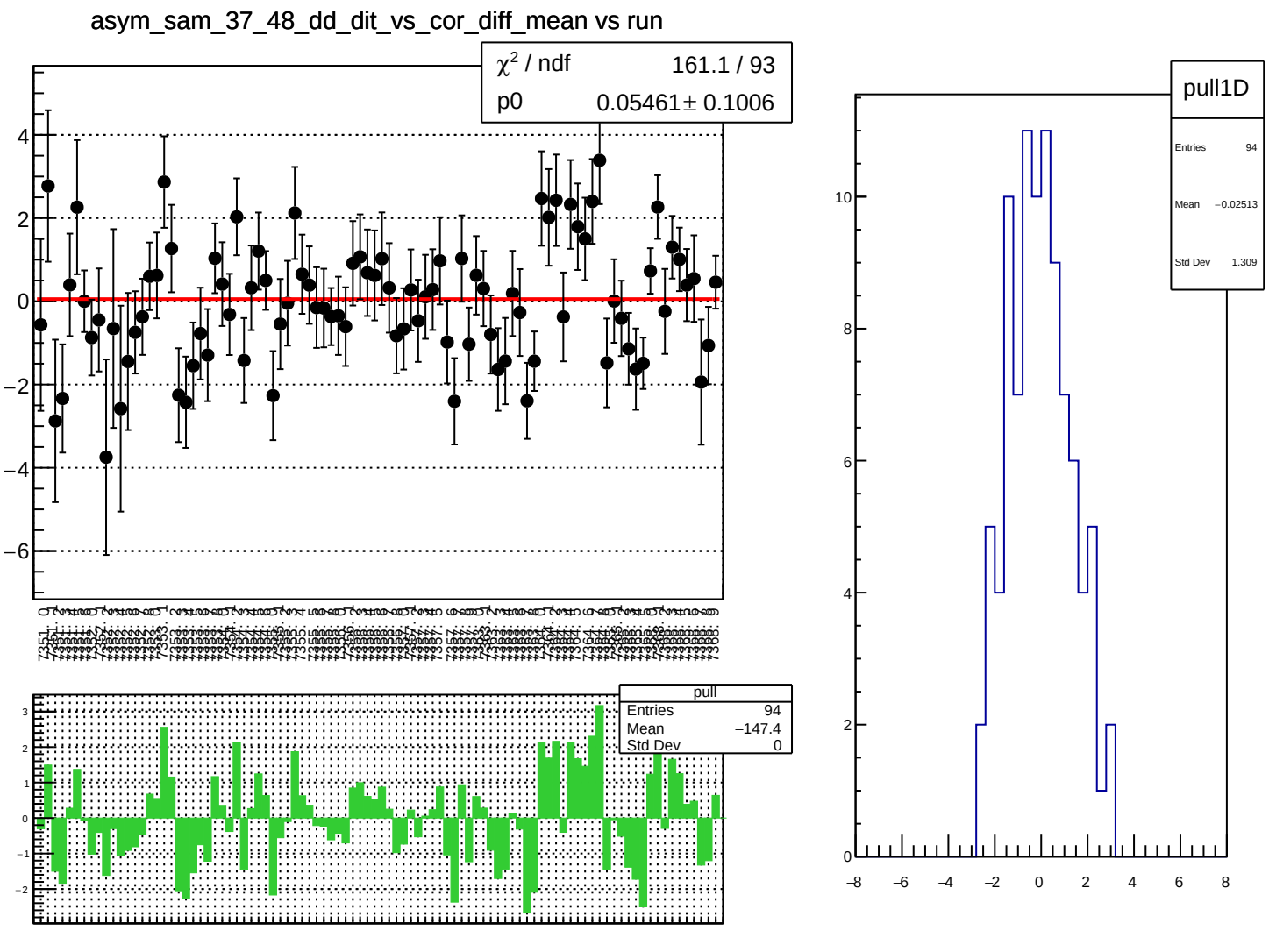

asym_sam_37_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 9660 / 93
p0 472.2 ± 0.3511
580
560
540
520
500
480
460
440
420
400

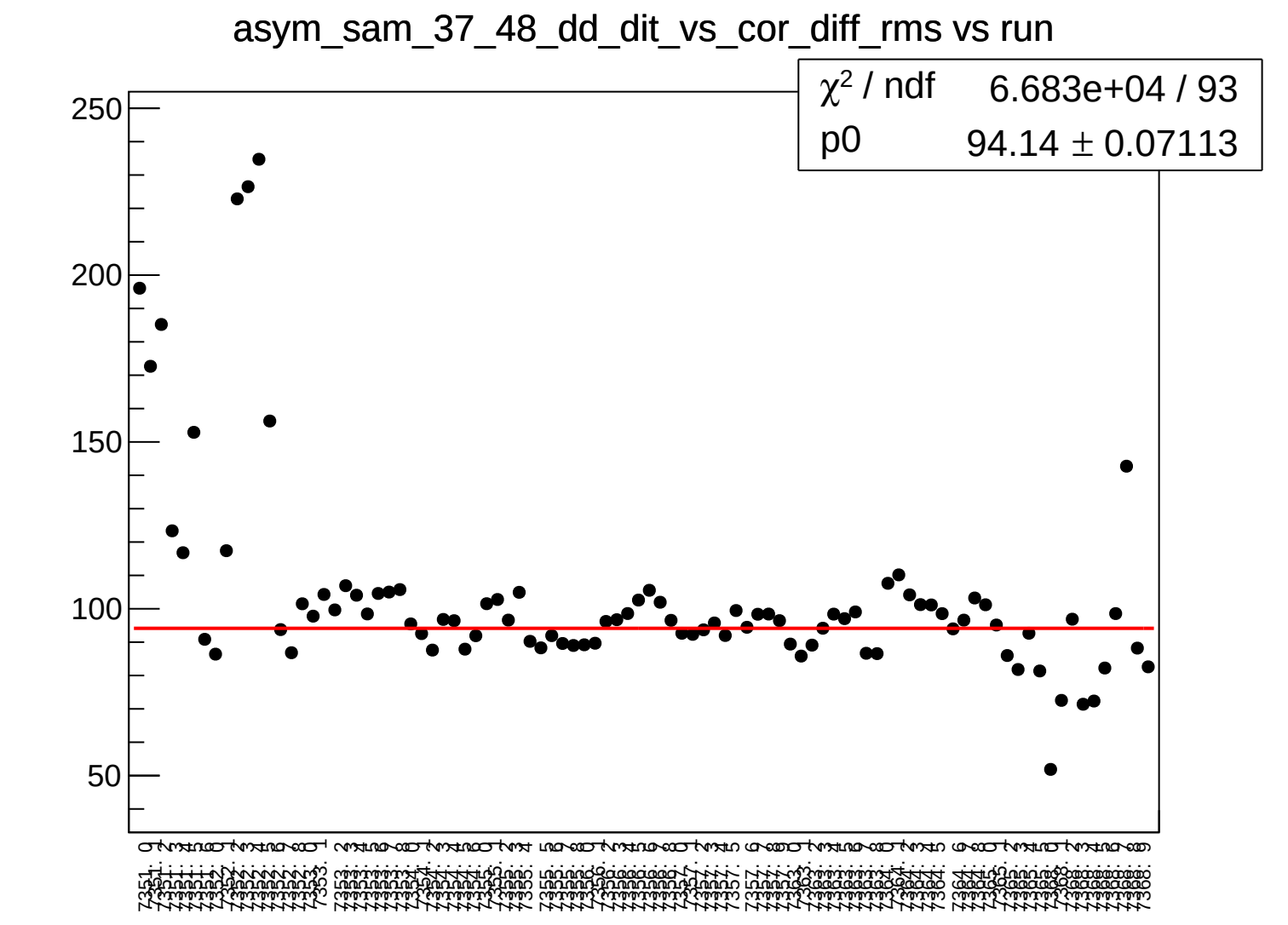

asym_sam_37_48_dd_mean vs run
χ² / ndf 212.6 / 93
p0 308.8 ± 442.5
20000
10000
0
−10000
−20000
pull
Entries 94
Mean 6603
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 94
Mean −0.0007489
Std Dev 1.504
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

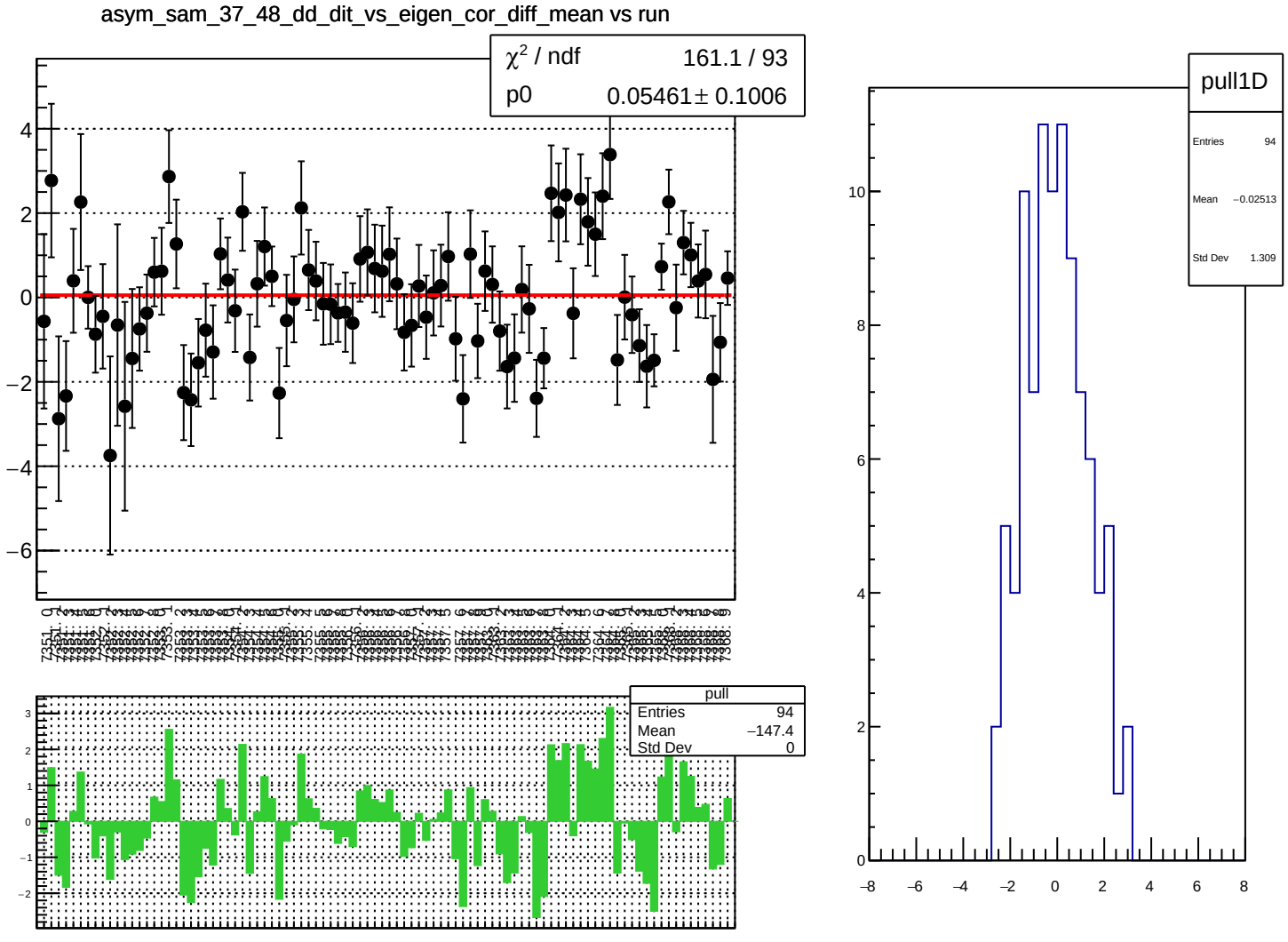

asym_sam_37_48_dd_rms vs run
χ² / ndf 9507 / 93
p0 420.9 ± 0.3129
500
480
460
440
420
400
380
360

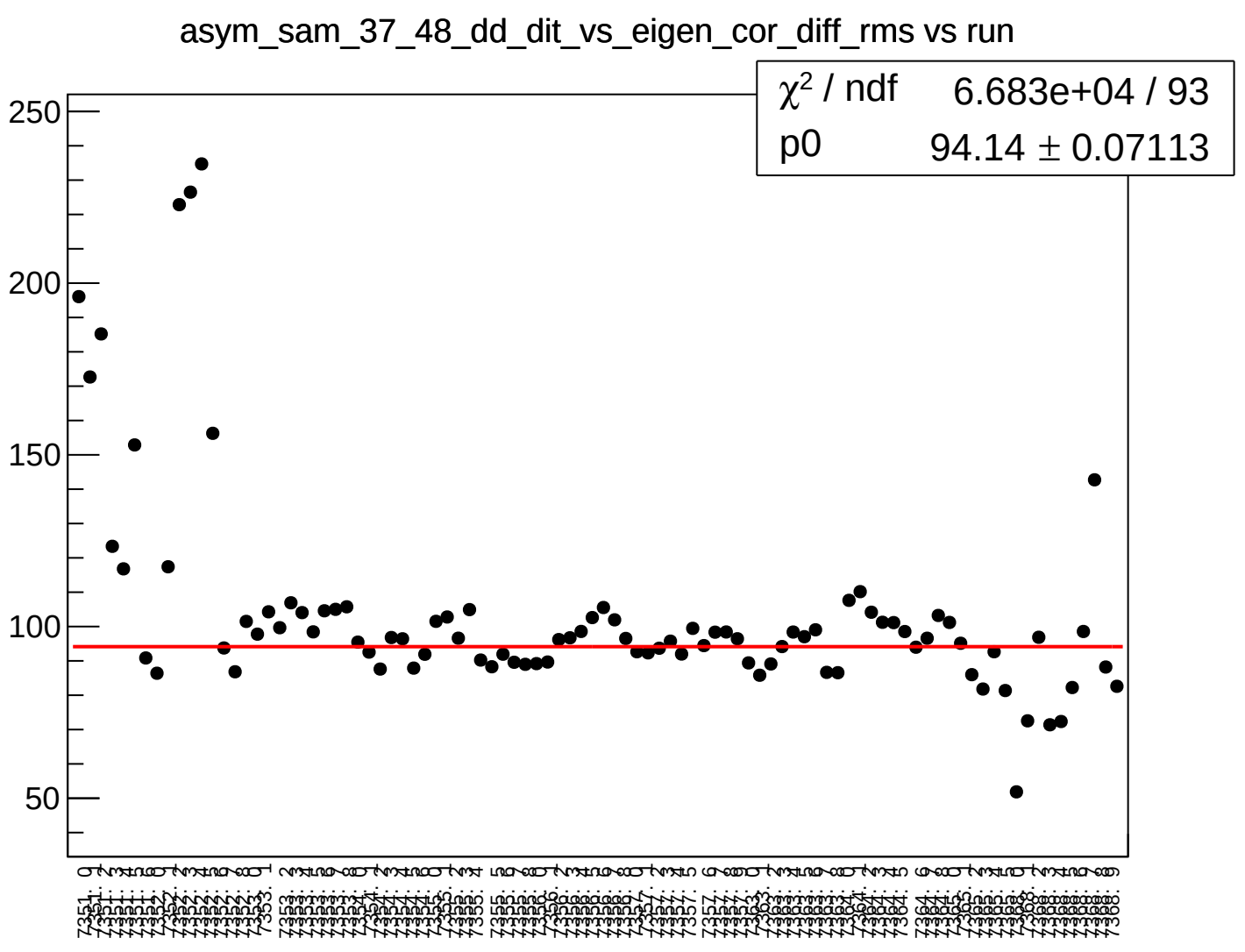

asym_sam_37_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 138.6 / 93
p0 1.822e−15 ± 1.507e−14
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 94
Mean 39.94
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.1031
Std Dev 1.21
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

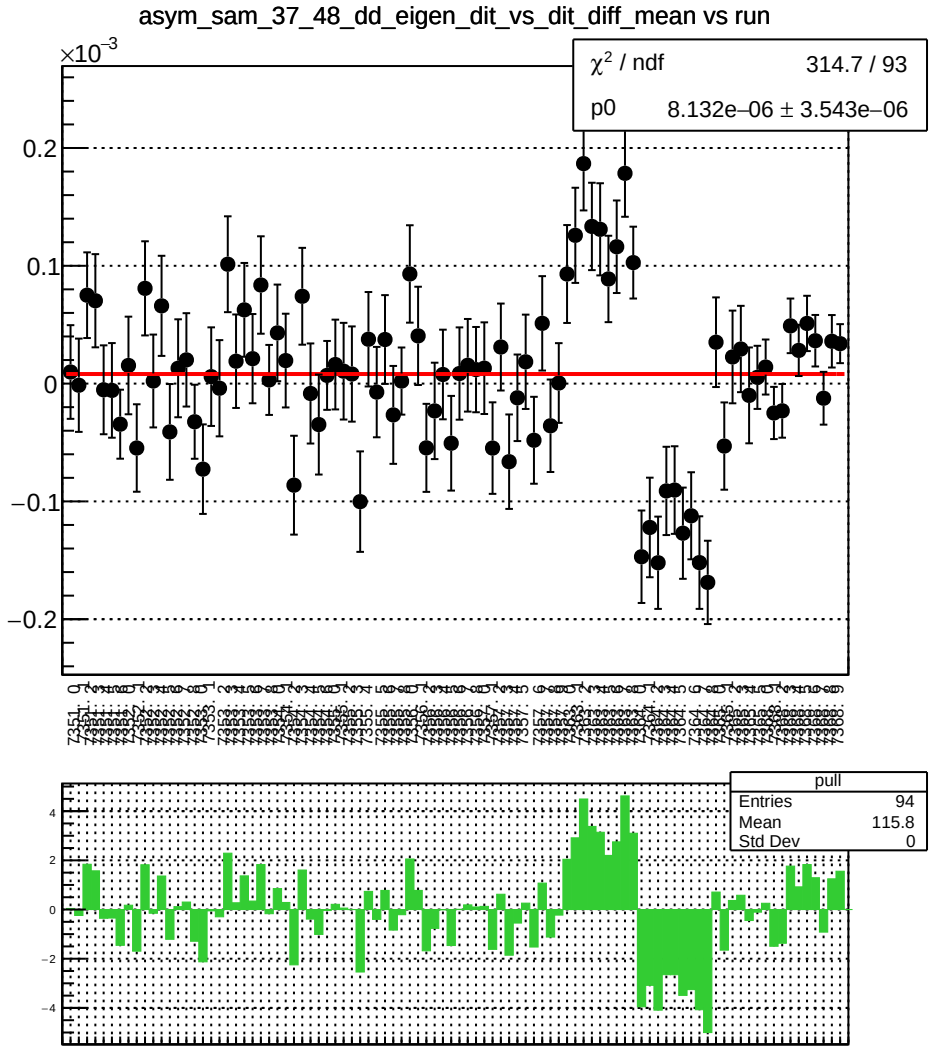

asym_sam_37_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.344e+06 / 93
p0 7.342e−12 ± 1.066e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

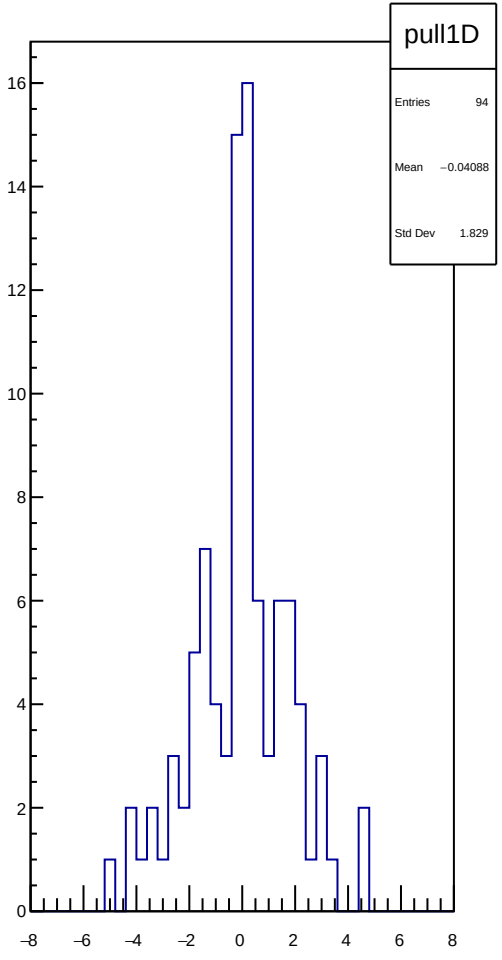

asym_sam_37_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 161.1 / 93
p0 0.05461 ± 0.1006
pull
Entries 94
Mean −147.4
Std Dev 0
pull1D
Entries 94
Mean −0.02513
Std Dev 1.309

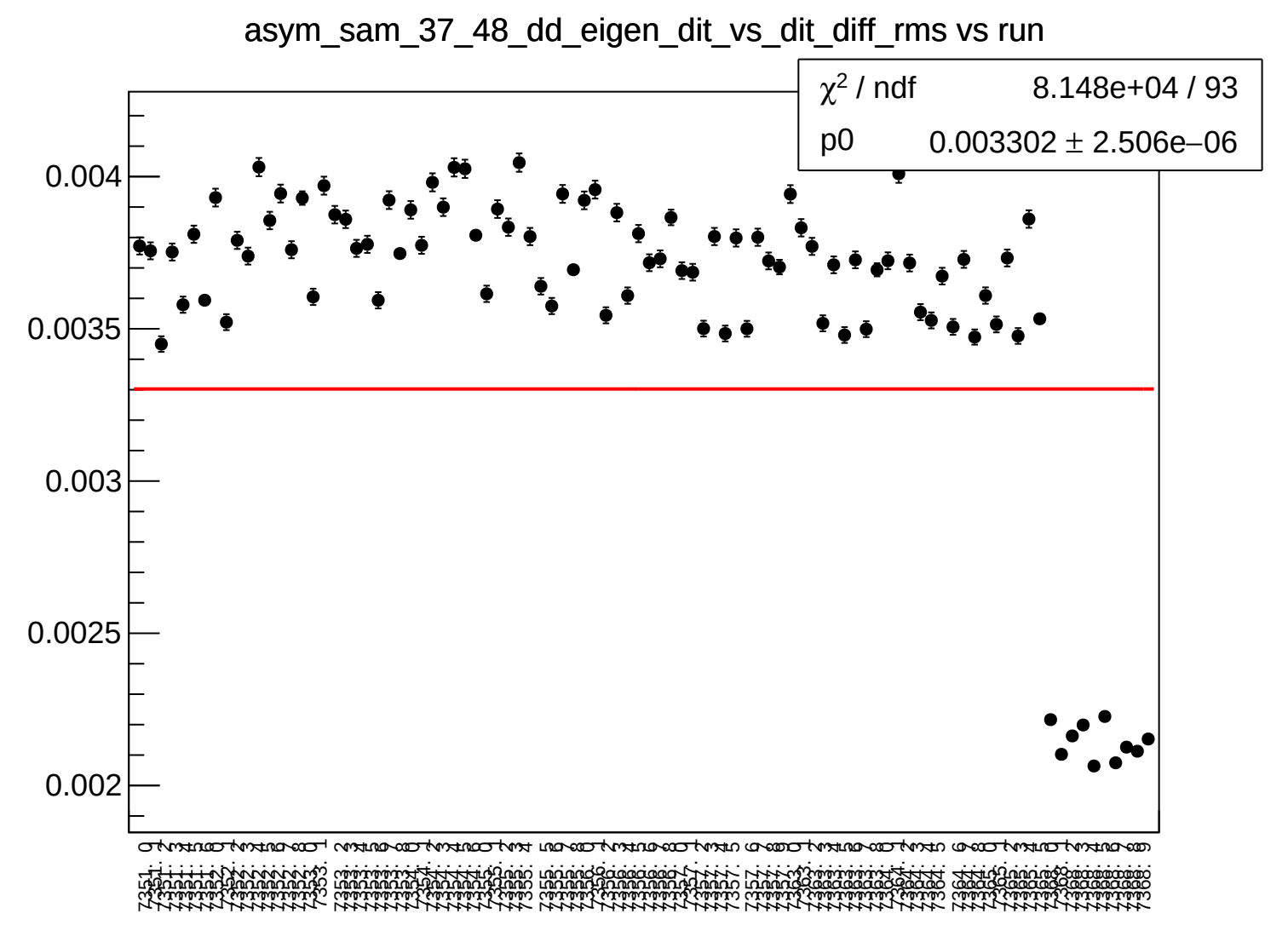

asym_sam_37_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.683e+04 / 93
p0 94.14 ± 0.07113
250
200
150
100
50

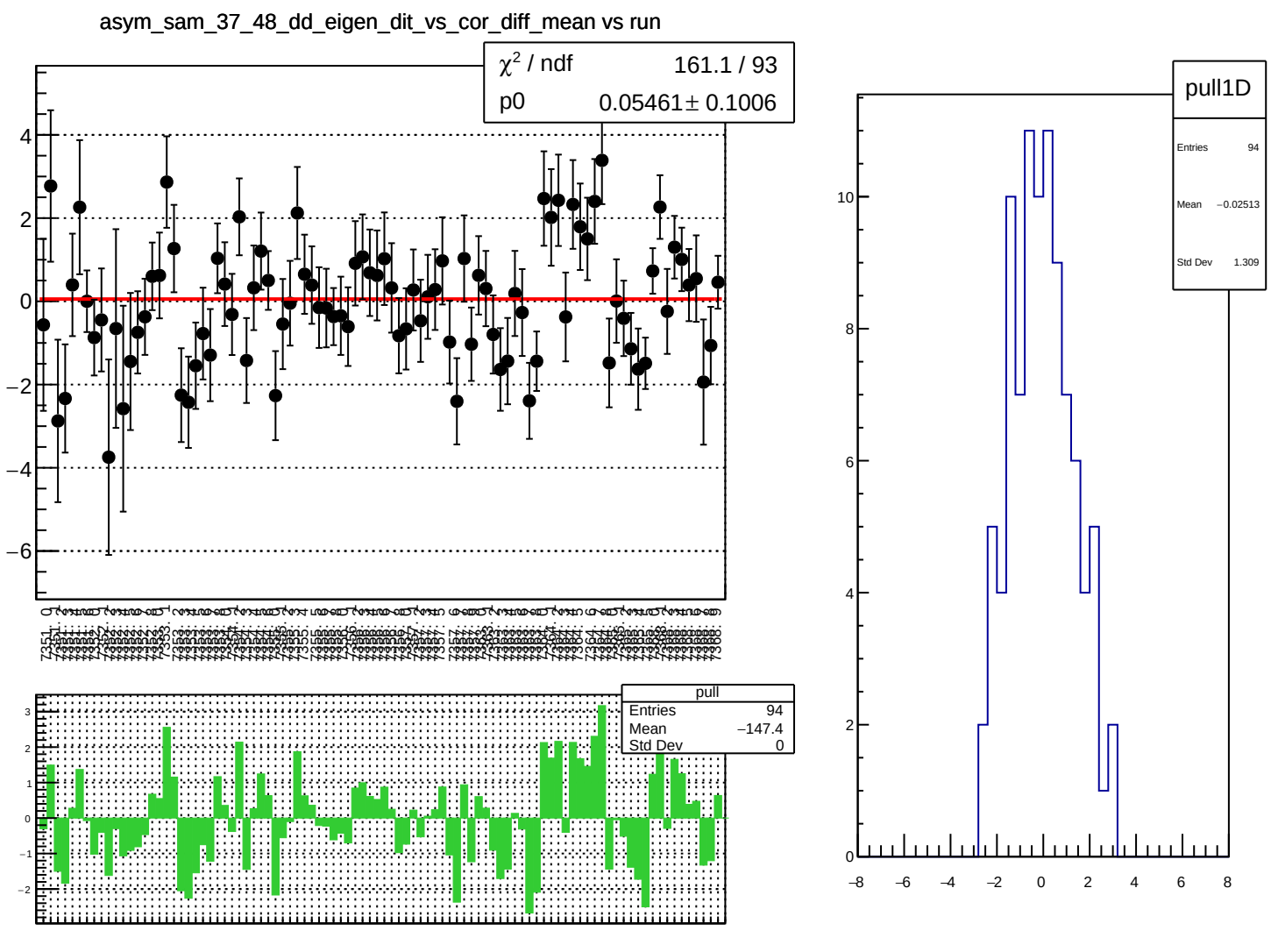

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 161.1 / 93
p0 0.05461 ± 0.1006
pull
Entries 94
Mean −147.4
Std Dev 0
pull1D
Entries 94
Mean −0.02513
Std Dev 1.309

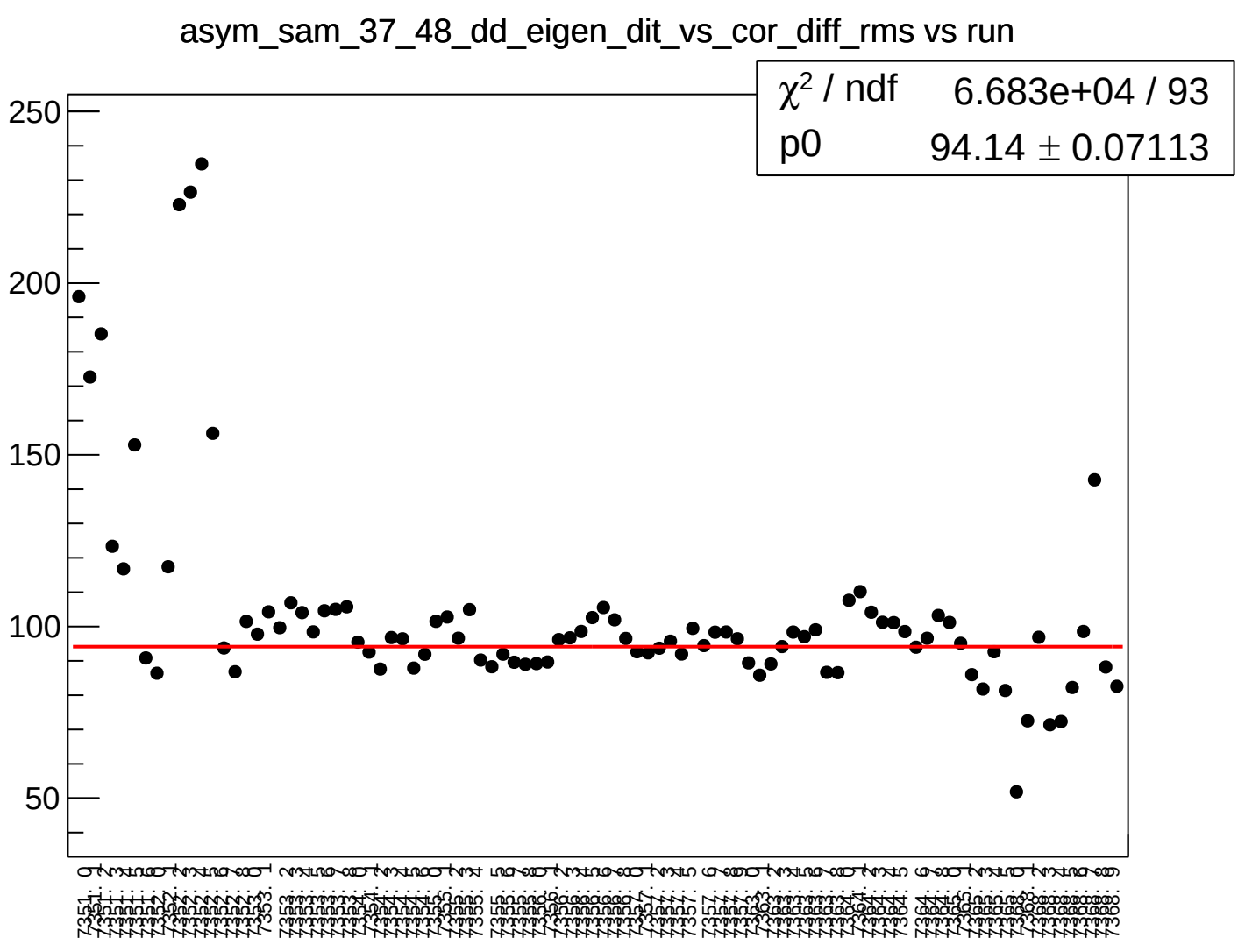

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.683e+04 / 93
p0 94.14 ± 0.07113
250
200
150
100
50

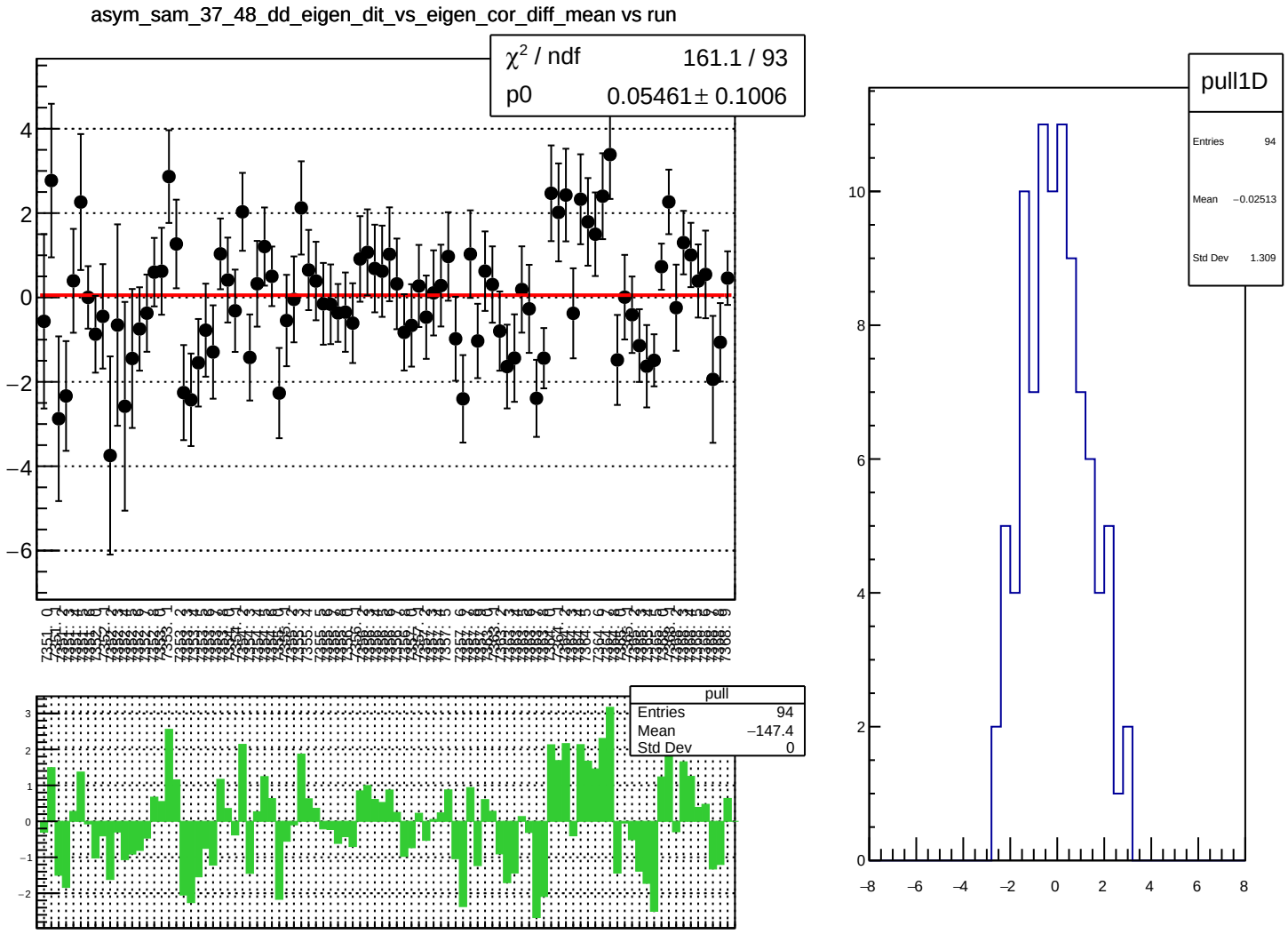

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 314.7 / 93
p0 8.132e−06 ± 3.543e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 94
Mean 115.8
Std Dev 0
4
2
0
−2
−4

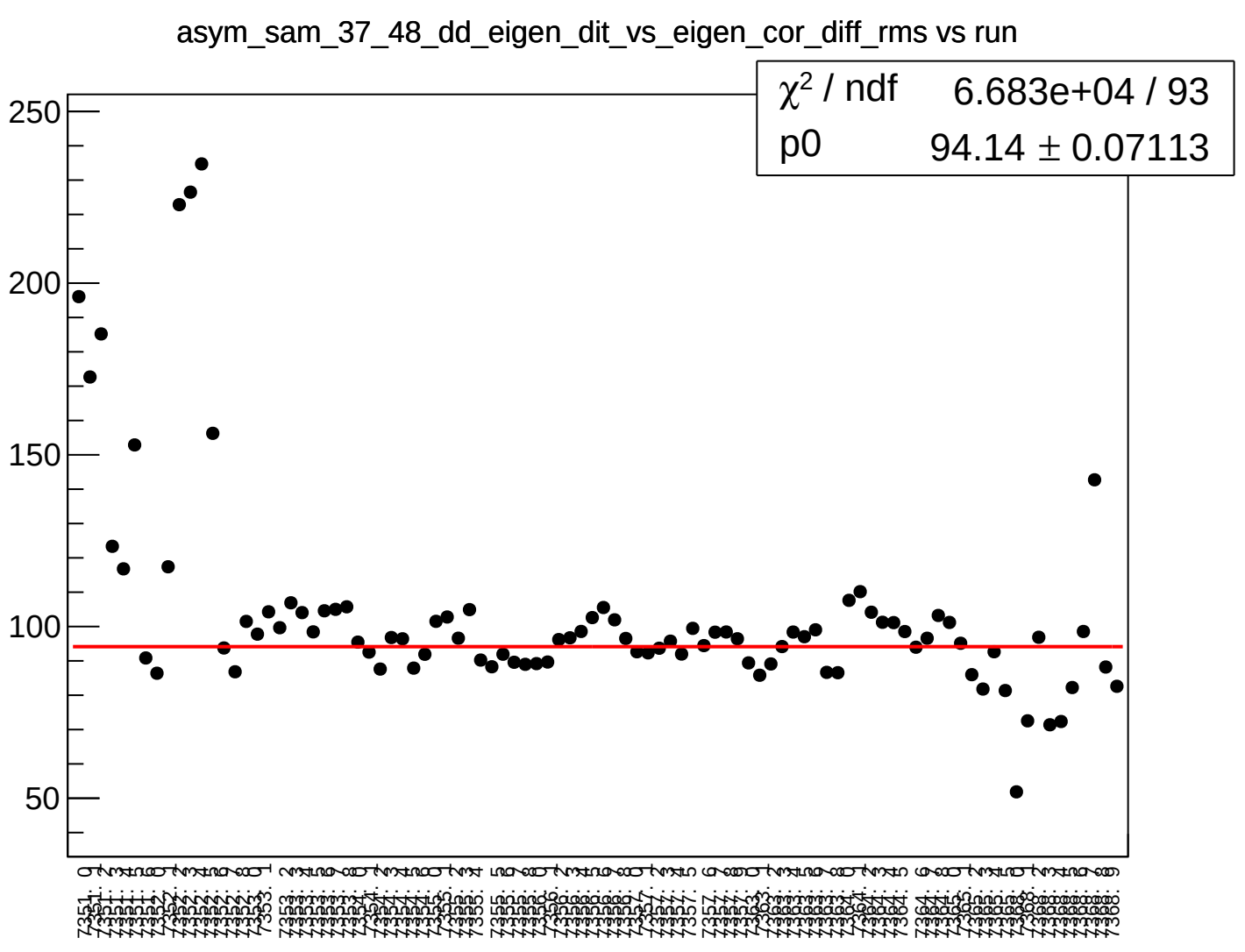

pull1D
Entries 94
Mean −0.04088
Std Dev 1.829
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

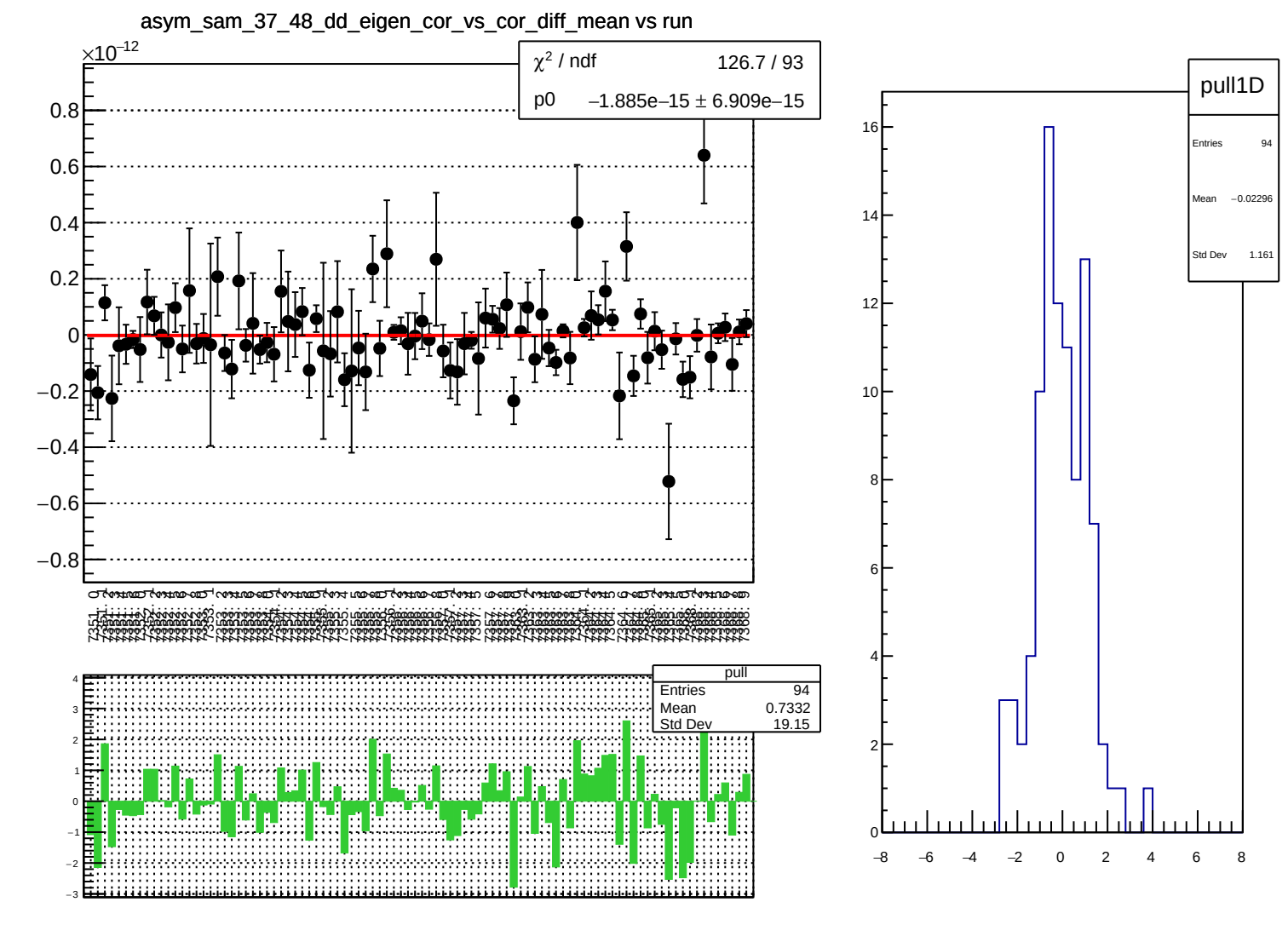

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.148e+04 / 93
p0 0.003302 ± 2.506e−06
0.004
0.0035
0.003
0.0025
0.002

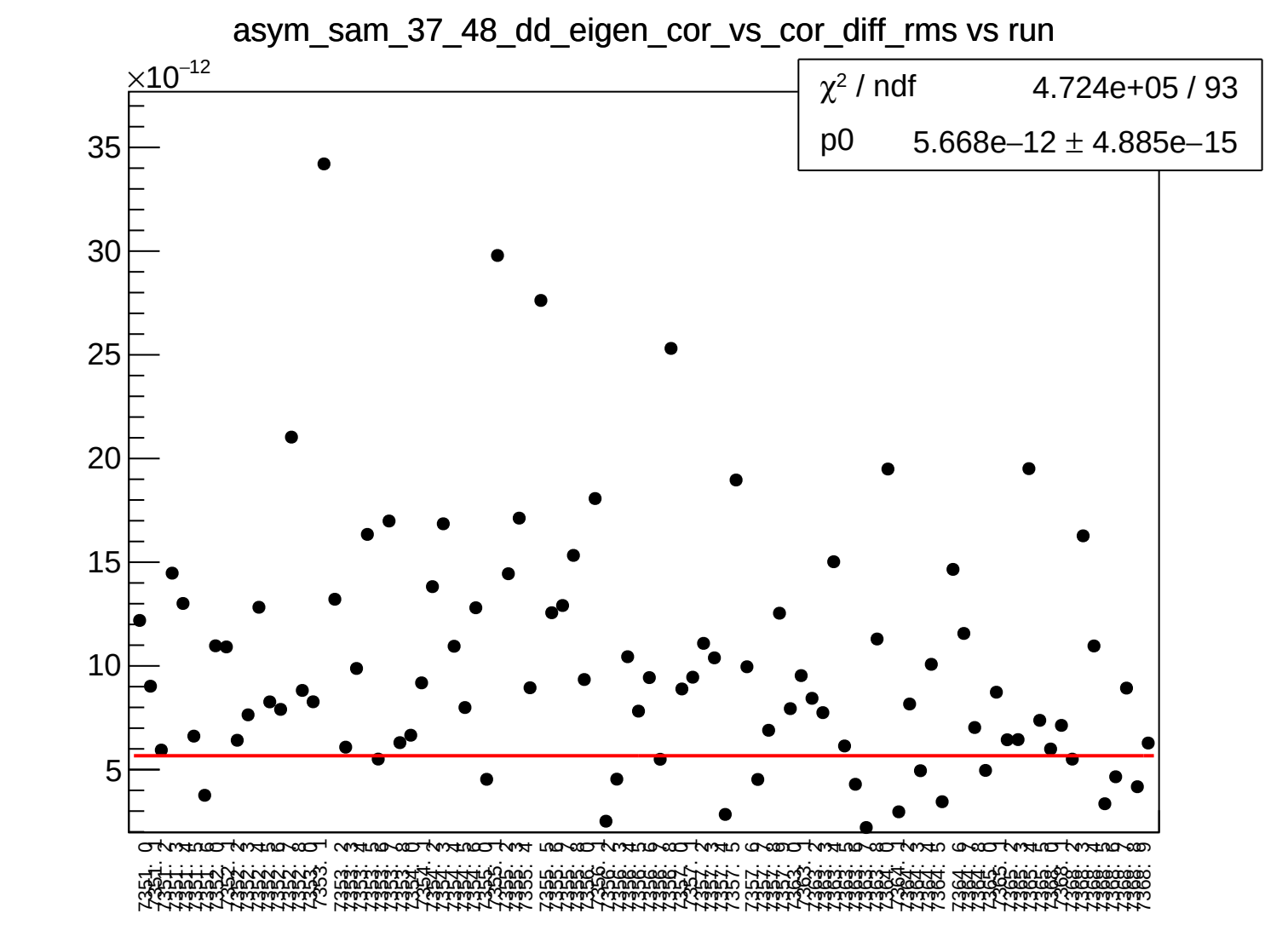

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 161.1 / 93
p0 0.05461 ± 0.1006
pull
Entries 94
Mean −147.4
Std Dev 0
pull1D
Entries 94
Mean −0.02513
Std Dev 1.309

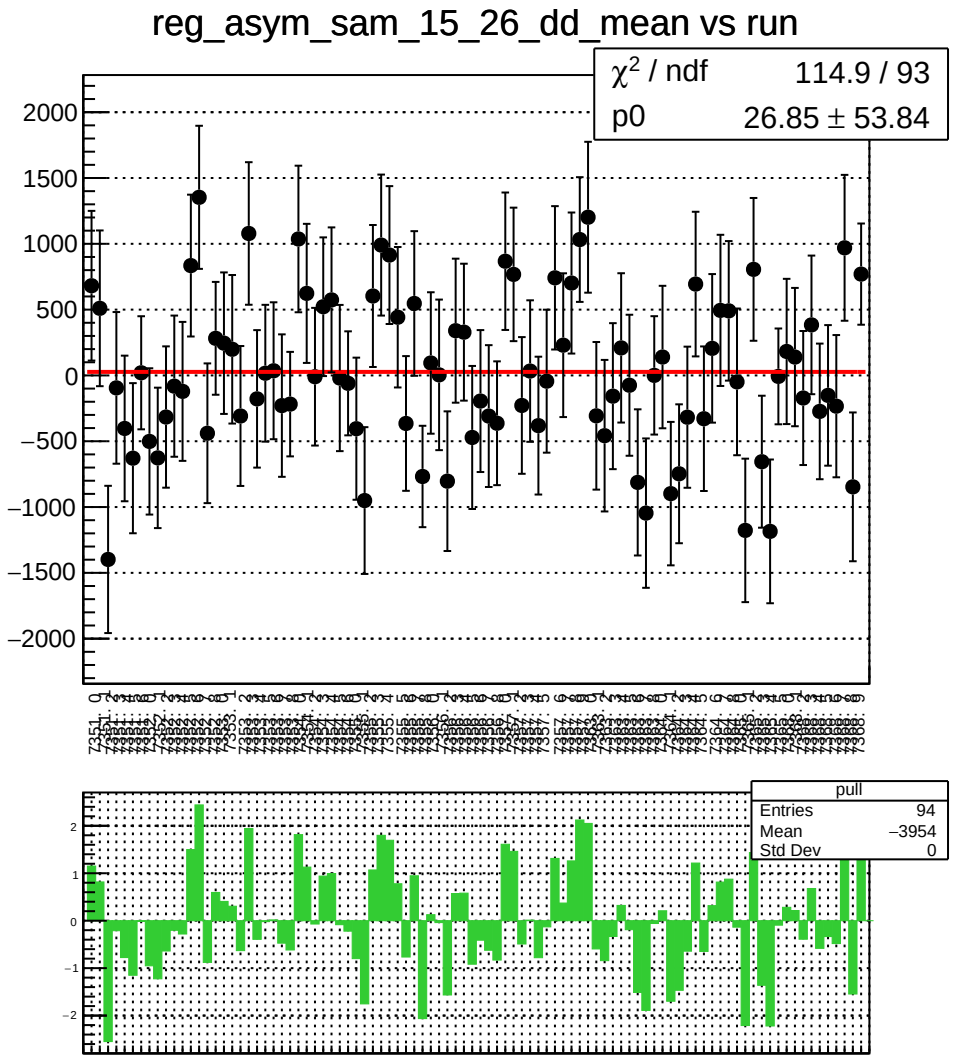

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.683e+04 / 93
p0 94.14 ± 0.07113
250
200
150
100
50

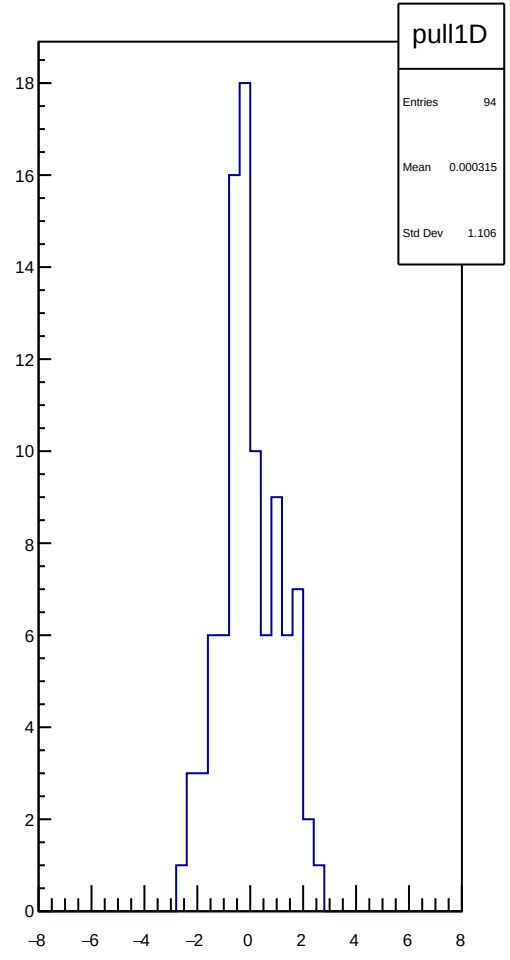

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 161.1 / 93
p0 0.05461 ± 0.1006
pull
Entries 94
Mean −147.4
Std Dev 0
pull1D
Entries 94
Mean −0.02513
Std Dev 1.309

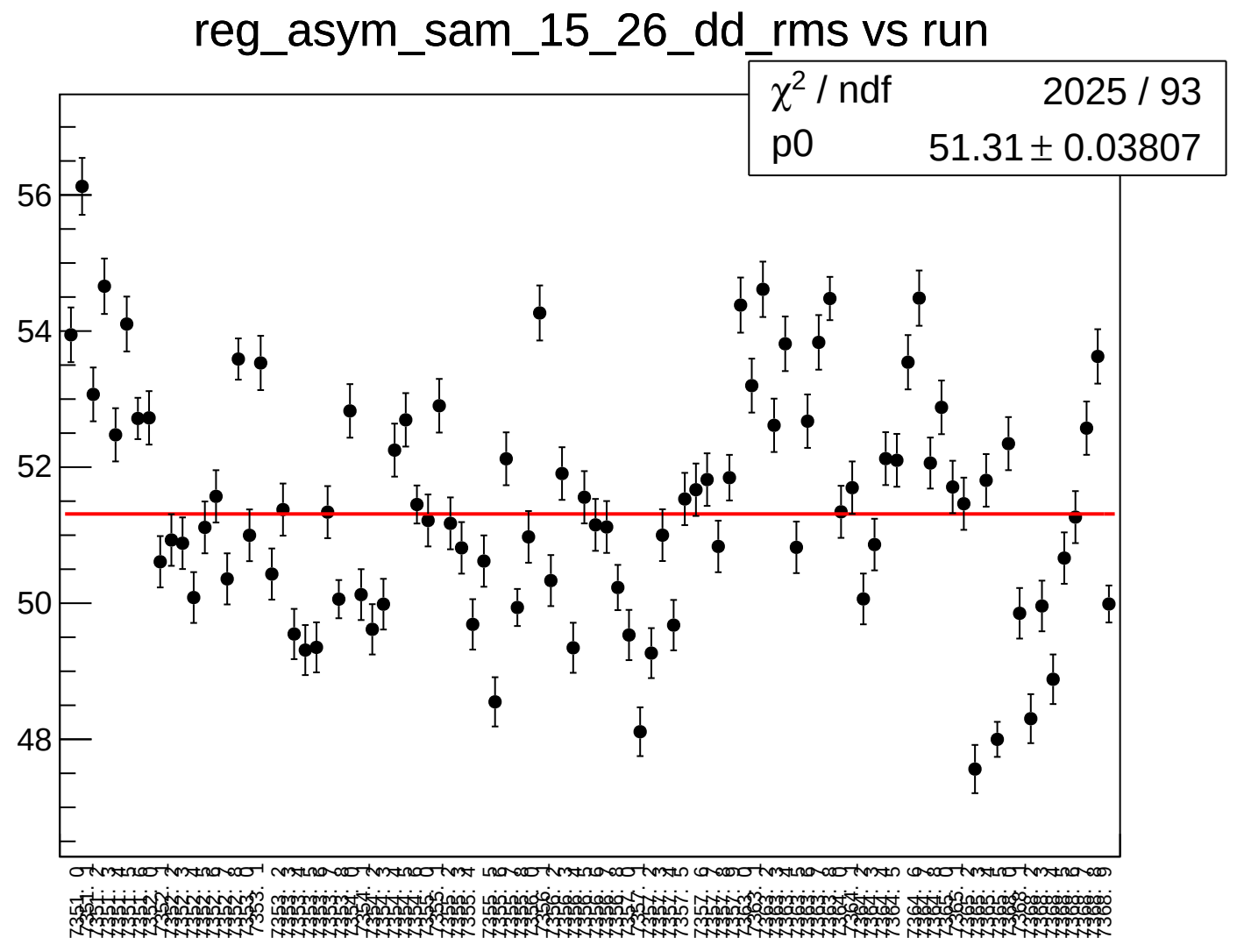

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.683e+04 / 93
p0 94.14 ± 0.07113
250
200
150
100
50

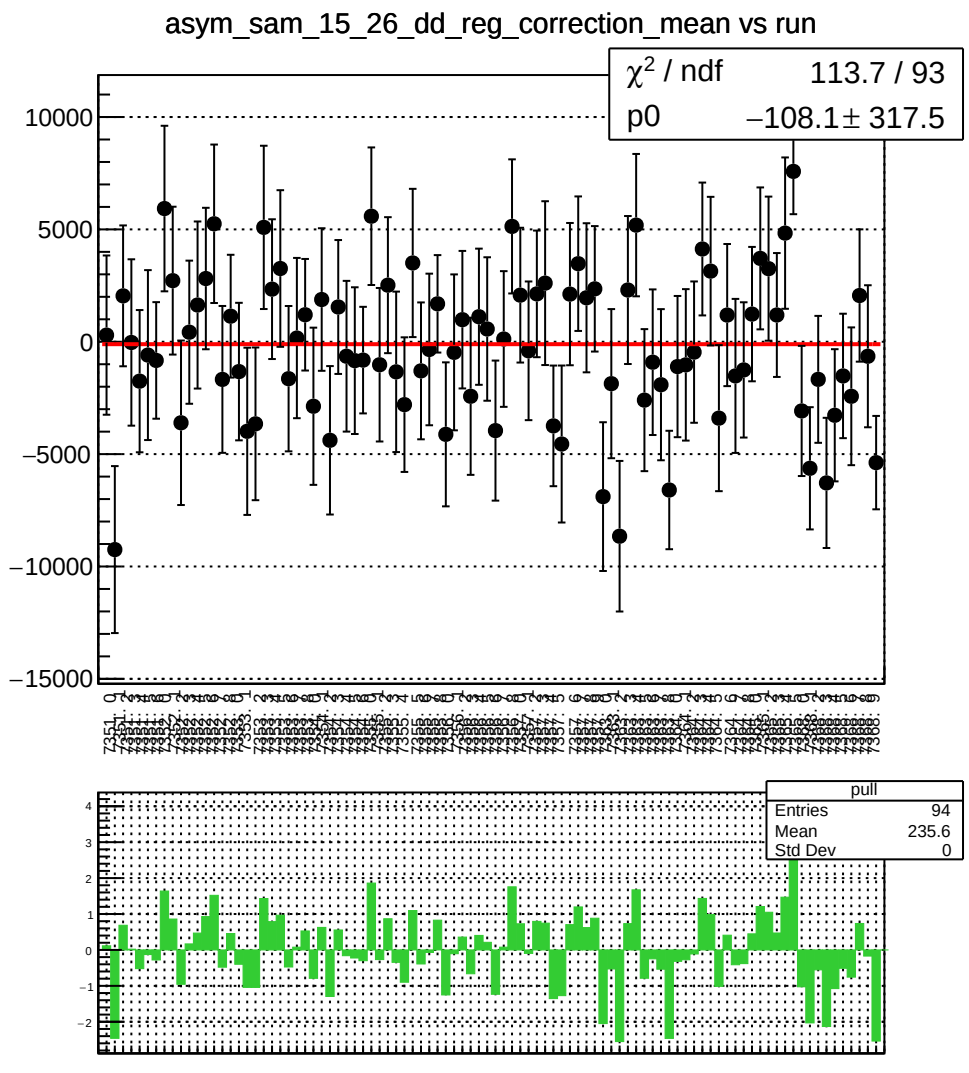

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 126.7 / 93
p0 −1.885e−15 ± 6.909e−15
pull
Entries 94
Mean 0.7332
Std Dev 19.15
pull1D
Entries 94
Mean −0.02296
Std Dev 1.161

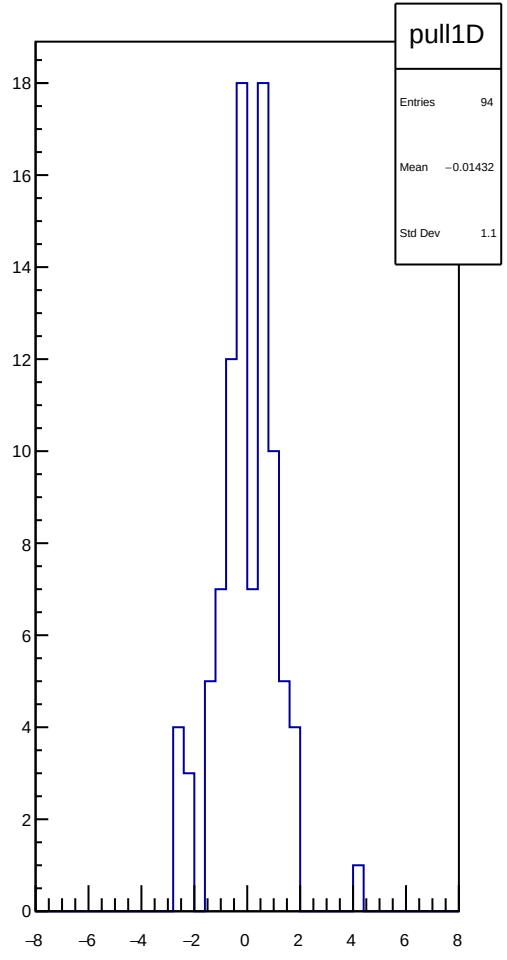

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.724e+05 / 93
p0 5.668e−12 ± 4.885e−15
35
30
25
20
15
10
5

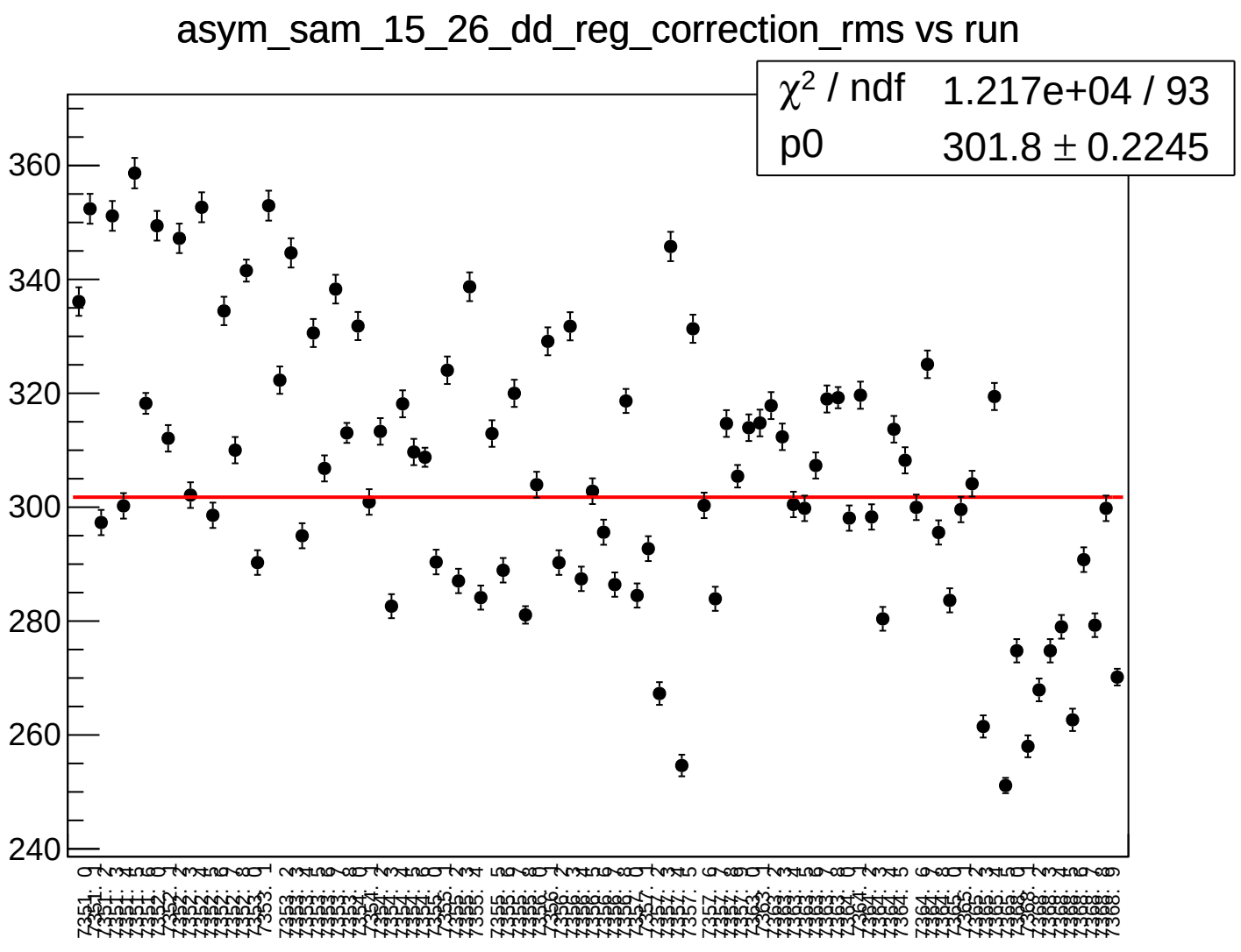

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 114.9 / 93
p0 26.85 ± 53.84
pull
Entries 94
Mean −3954
Std Dev 0

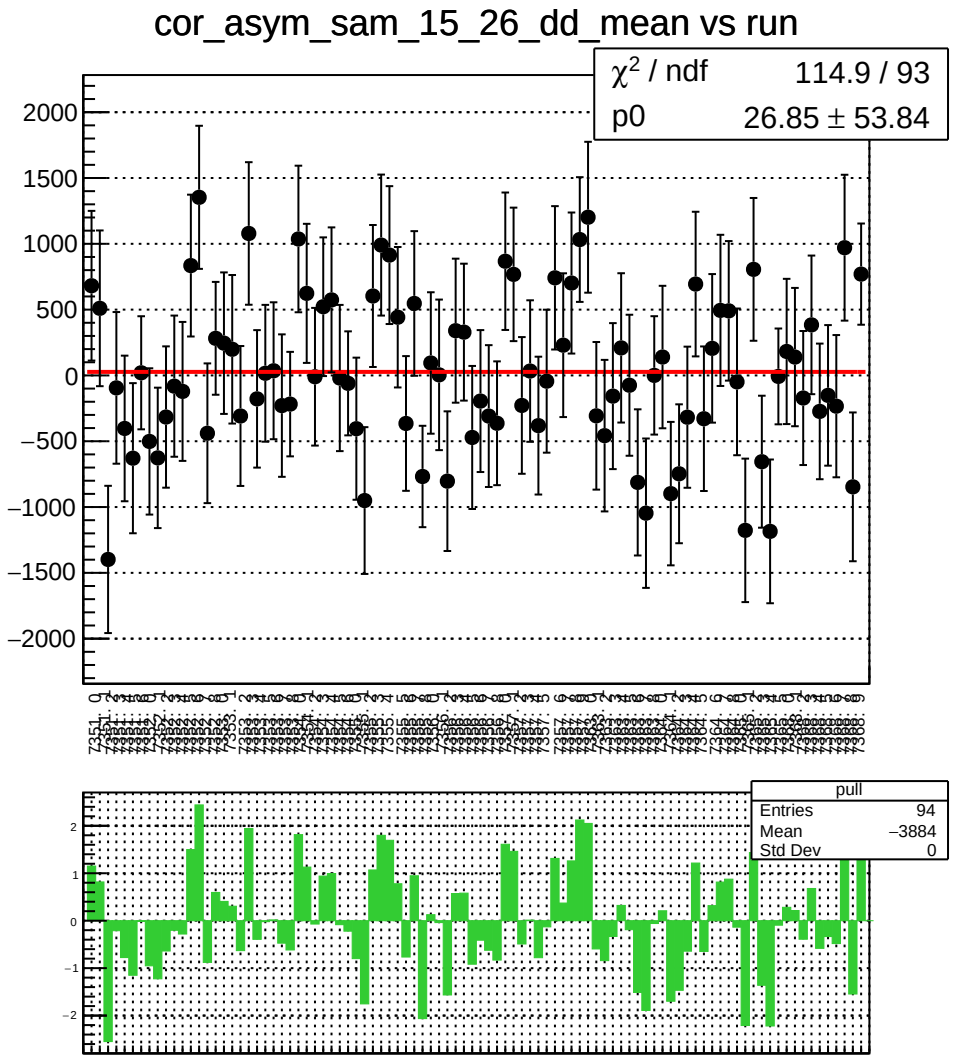

pull1D
Entries 94
Mean 0.000315
Std Dev 1.106

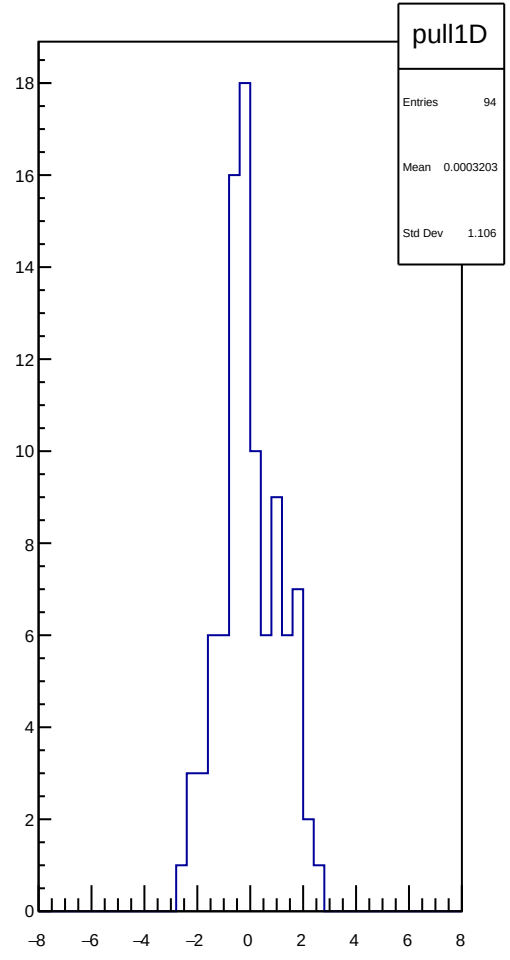

reg_asym_sam_15_26_dd_rms vs run
χ^2 / ndf 2025 / 93
p0 51.31 ± 0.03807
56
54
52
50
48

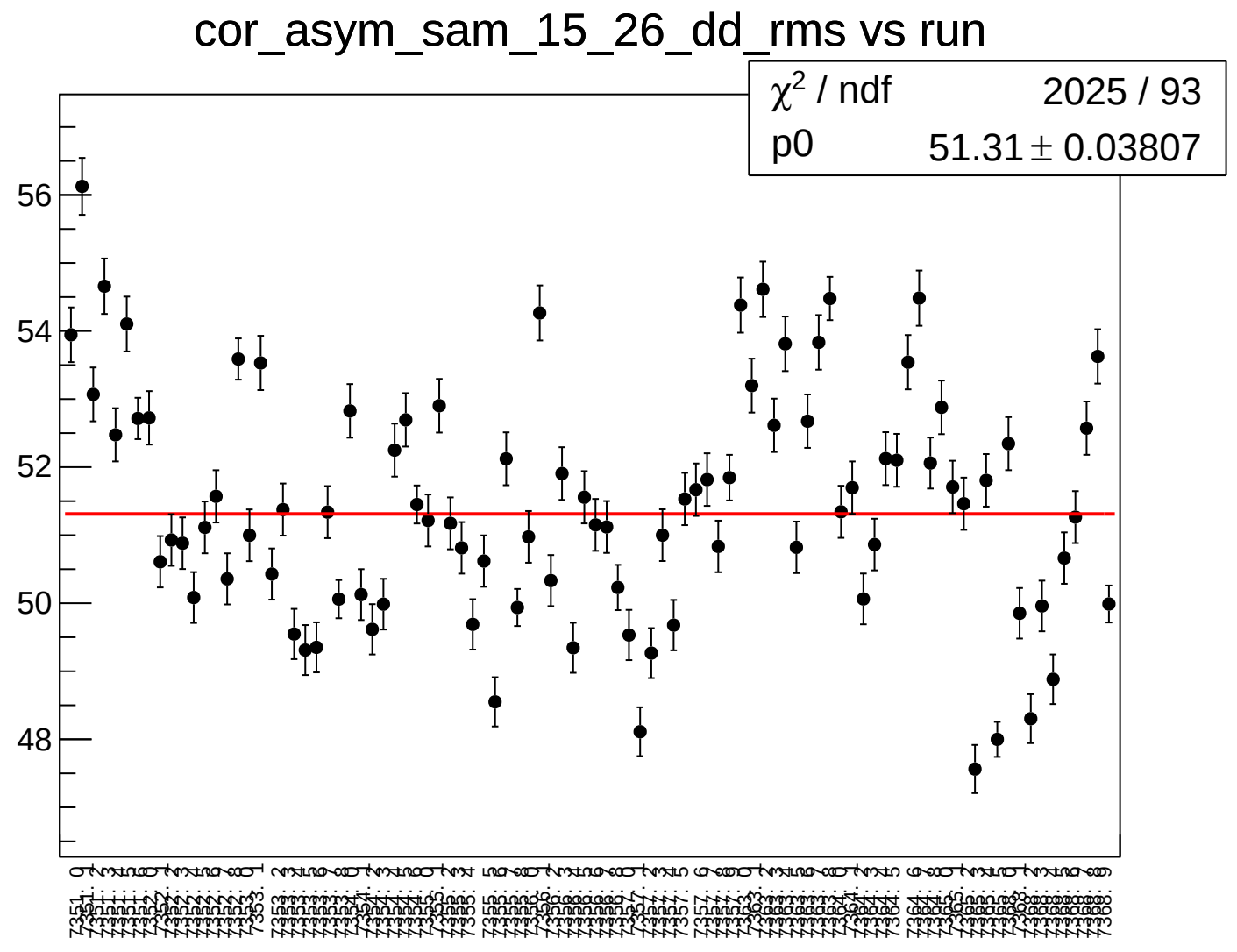

asym_sam_15_26_dd_reg_correction_mean vs run
χ² / ndf 113.7 / 93
p0 −108.1± 317.5
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean 235.6
Std Dev 0
4
3
2
1
0
−1
−2

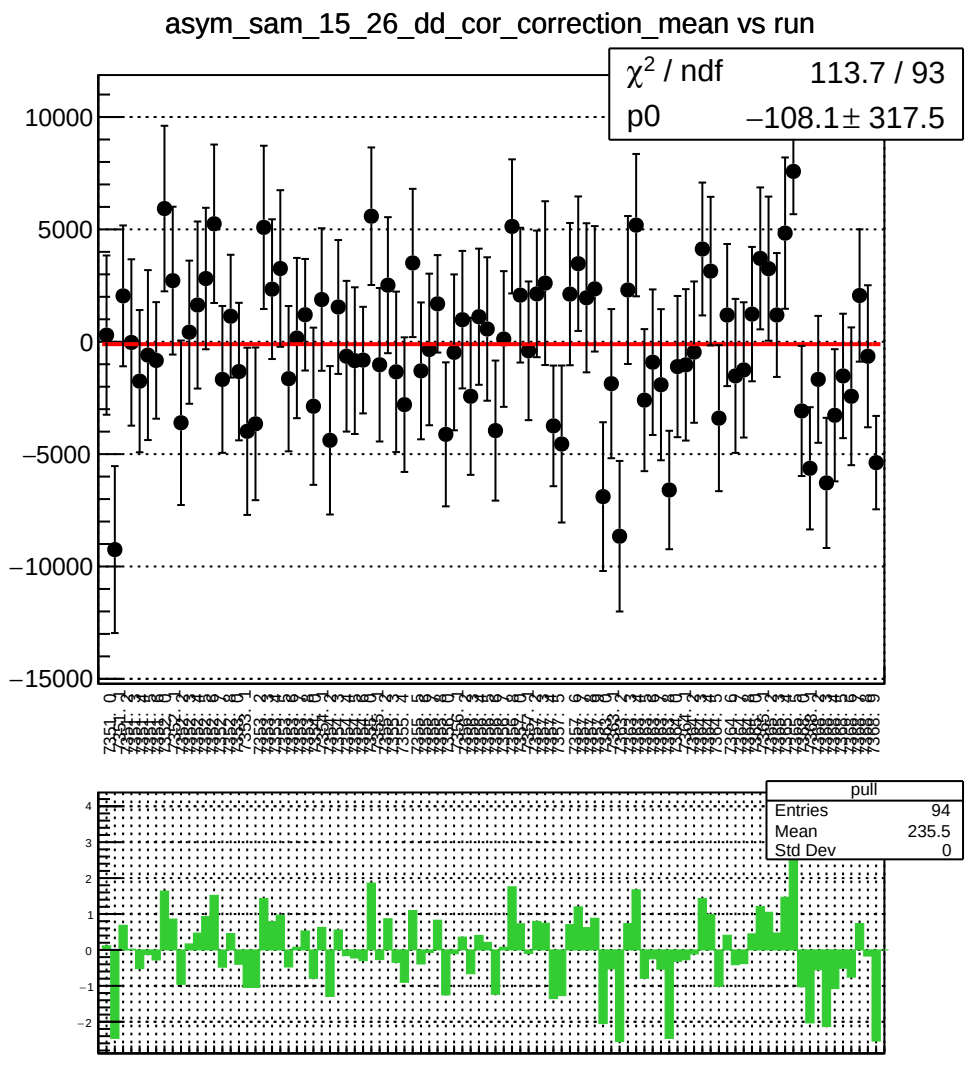

pull1D
Entries 94
Mean −0.01432
Std Dev 1.1
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

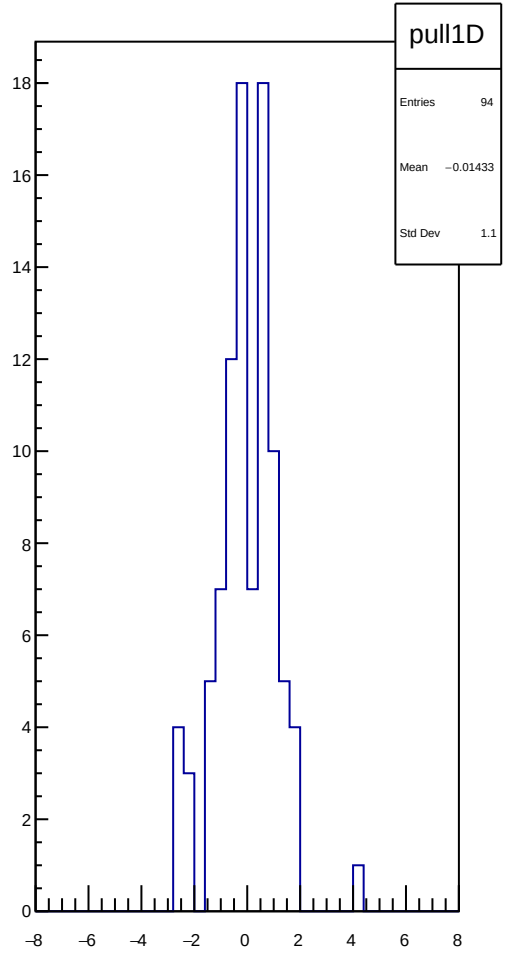

asym_sam_15_26_dd_reg_correction_rms vs run
χ² / ndf 1.217e+04 / 93
p0 301.8 ± 0.2245
360
340
320
300
280
260
240

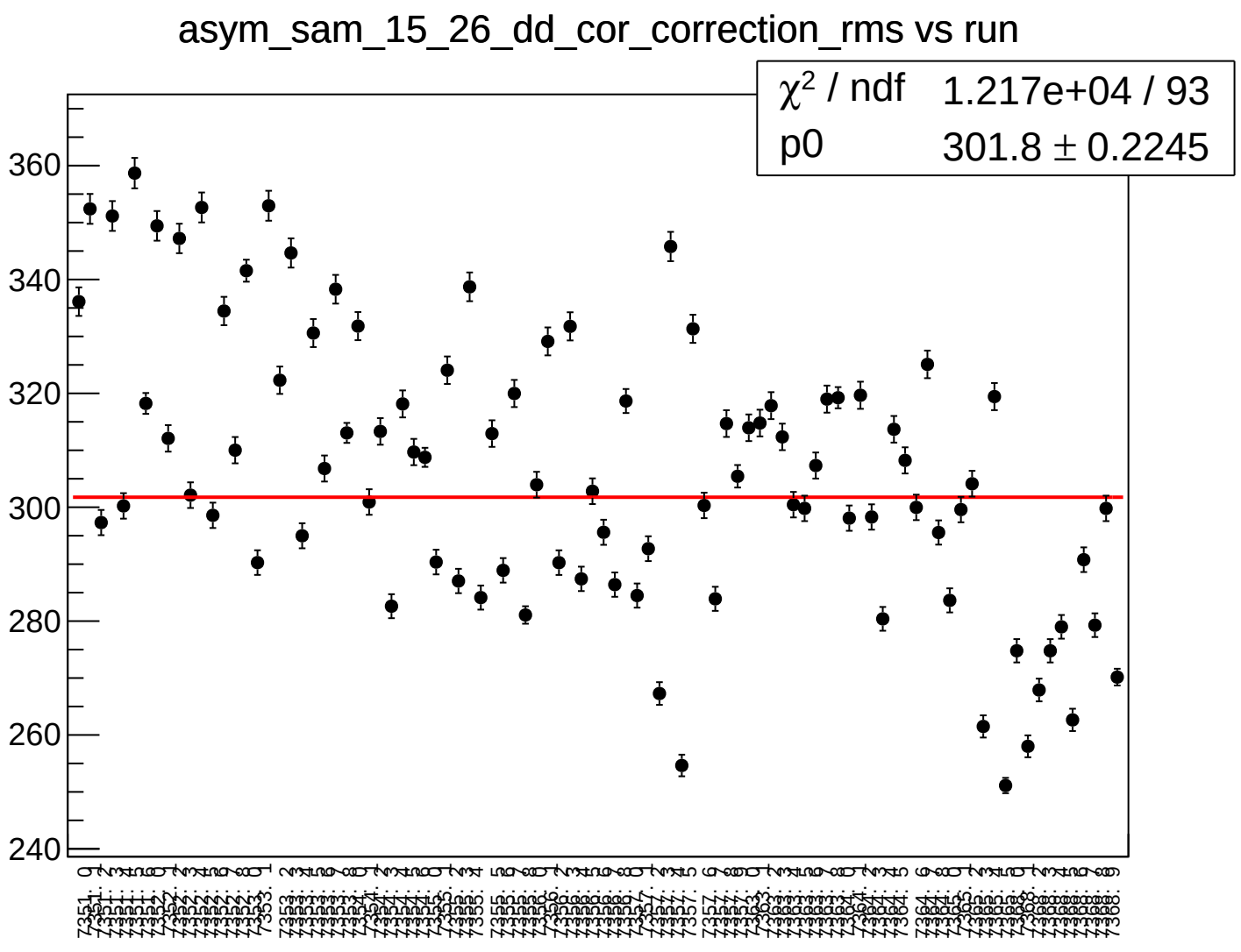

cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 114.9 / 93
p0 26.85 ± 53.84
pull
Entries 94
Mean −3884
Std Dev 0

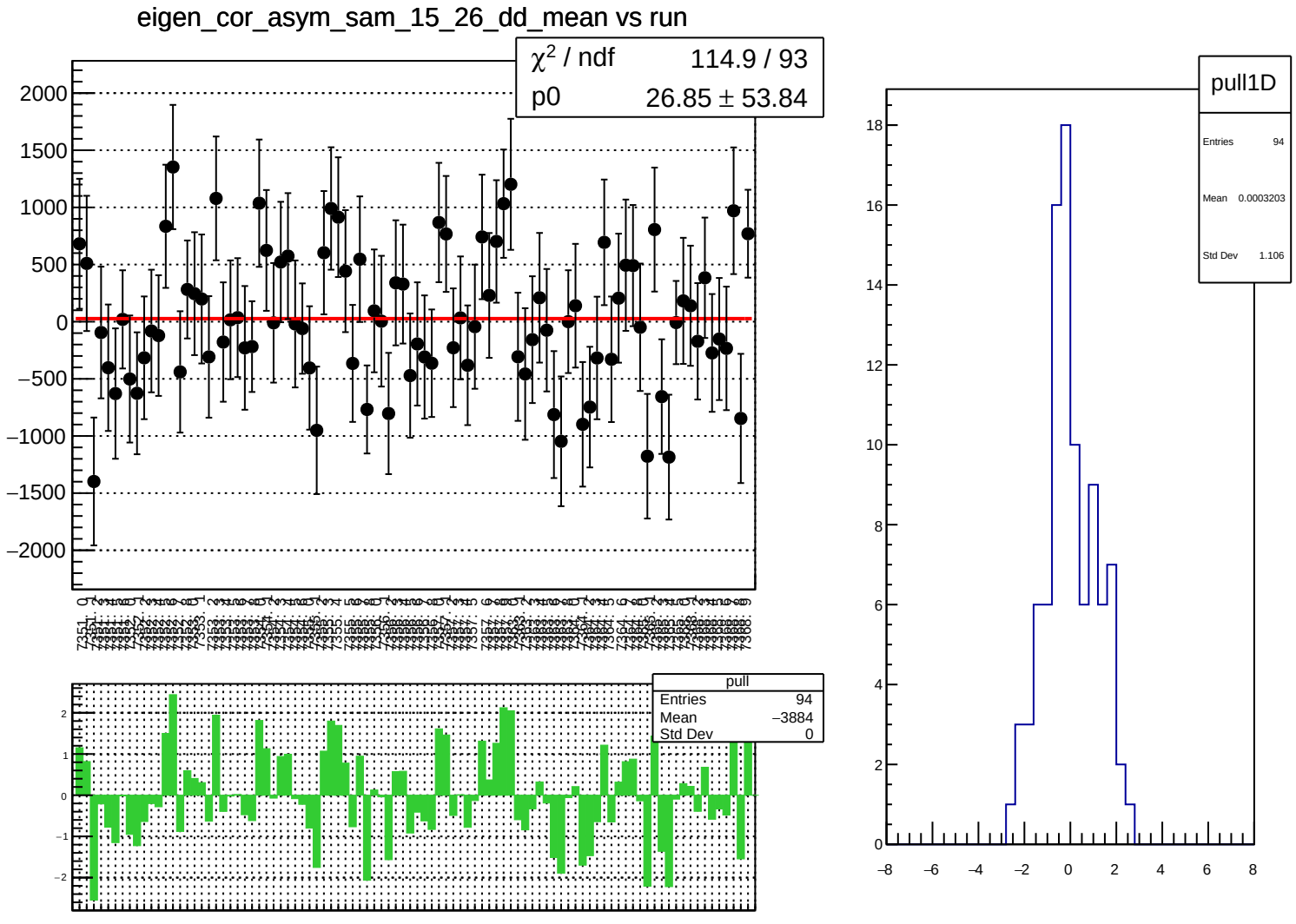

pull1D
Entries 94
Mean 0.0003203
Std Dev 1.106

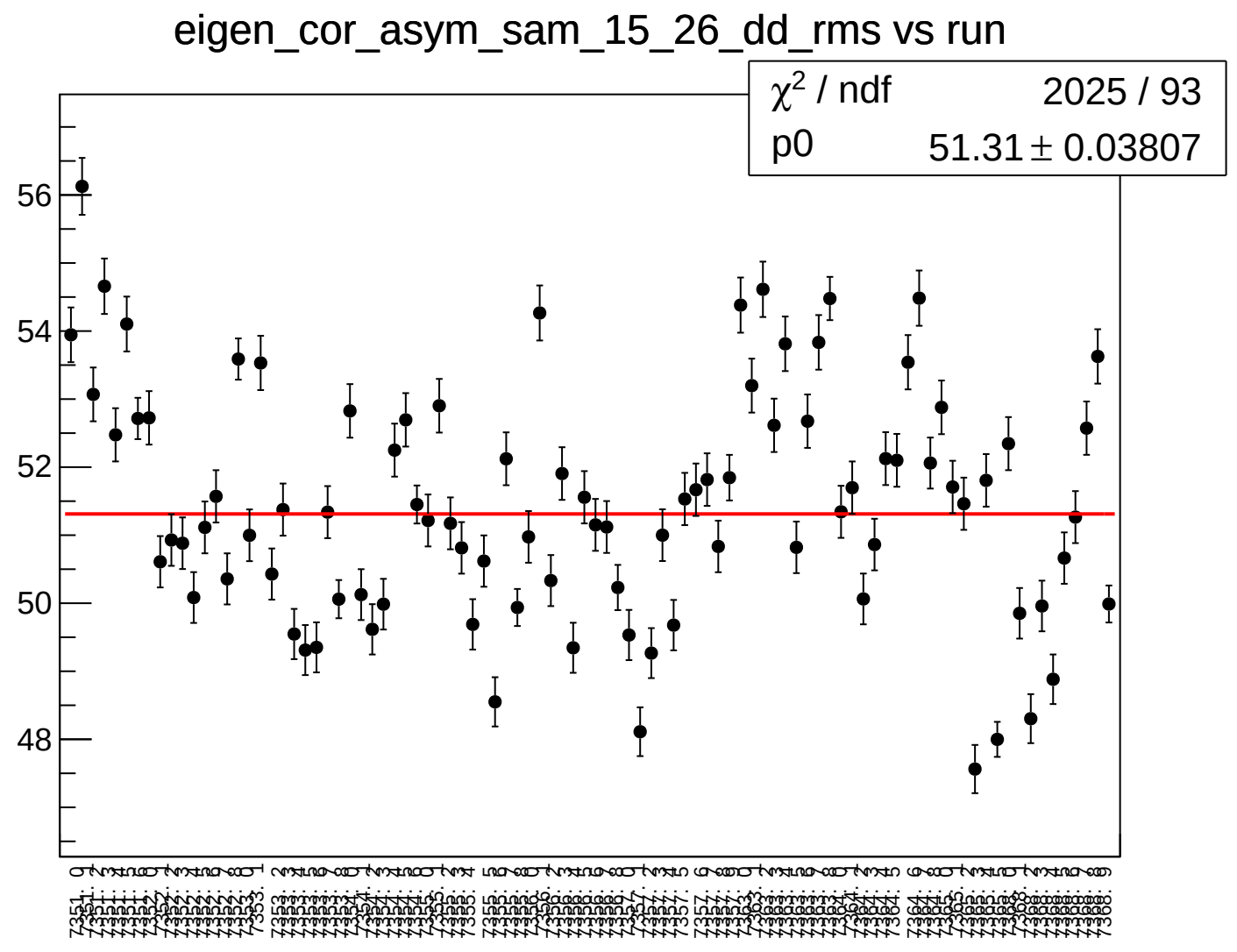

cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 2025 / 93
p0 51.31 ± 0.03807
56
54
52
50
48

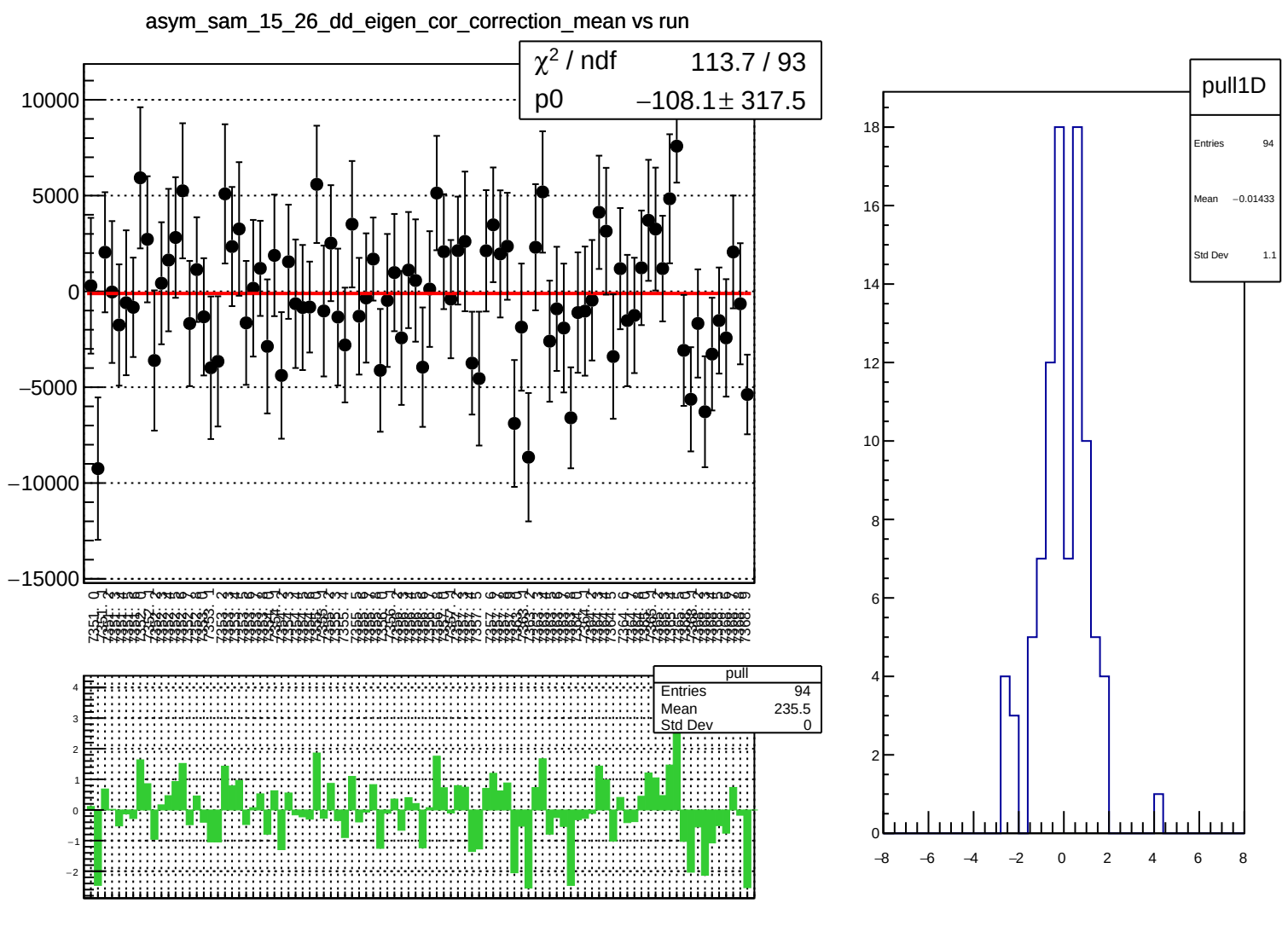

asym_sam_15_26_dd_cor_correction_mean vs run
χ² / ndf 113.7 / 93
p0 −108.1± 317.5
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean 235.5
Std Dev 0
4
3
2
1
0
−1
−2

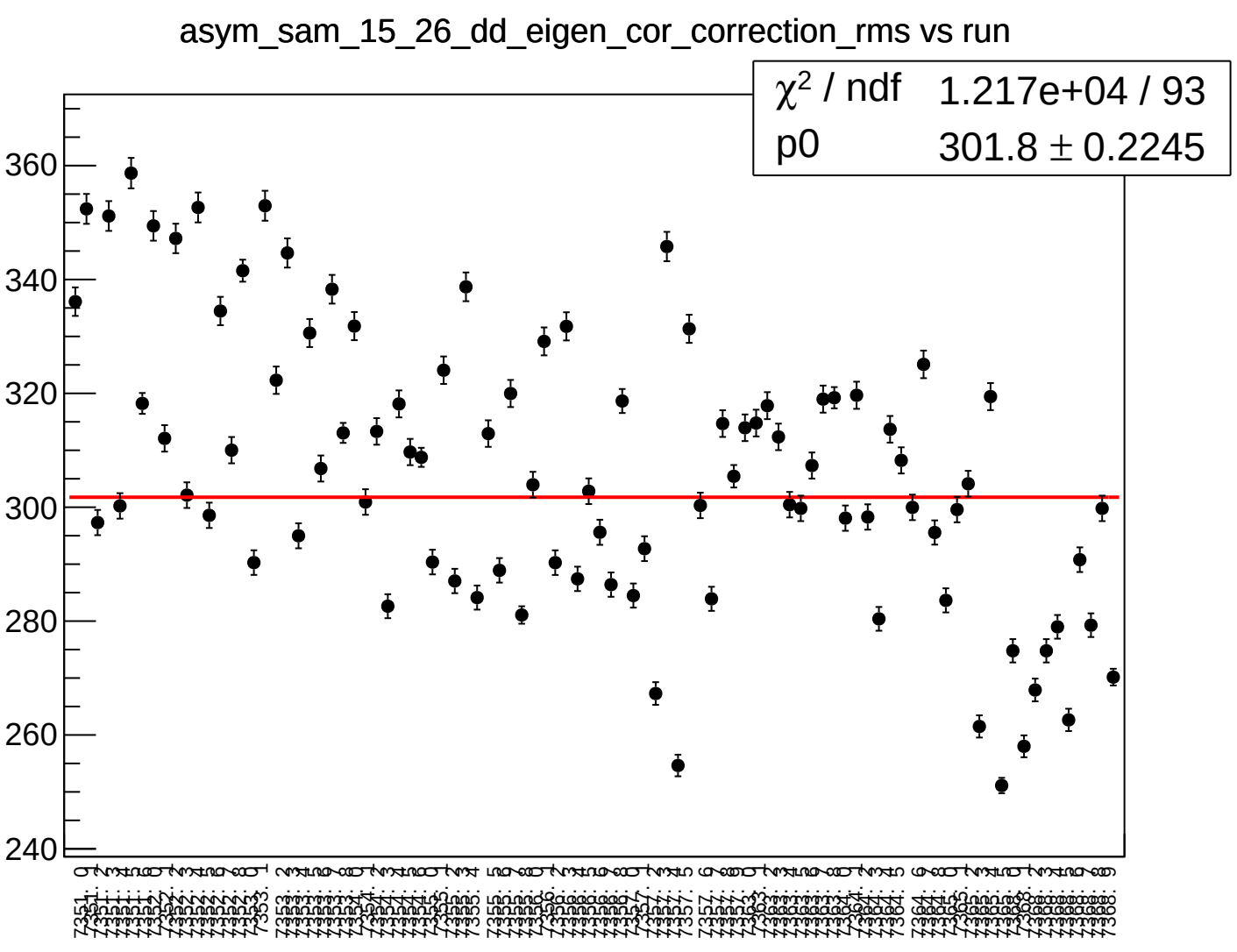

pull1D
Entries 94
Mean −0.01433
Std Dev 1.1
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

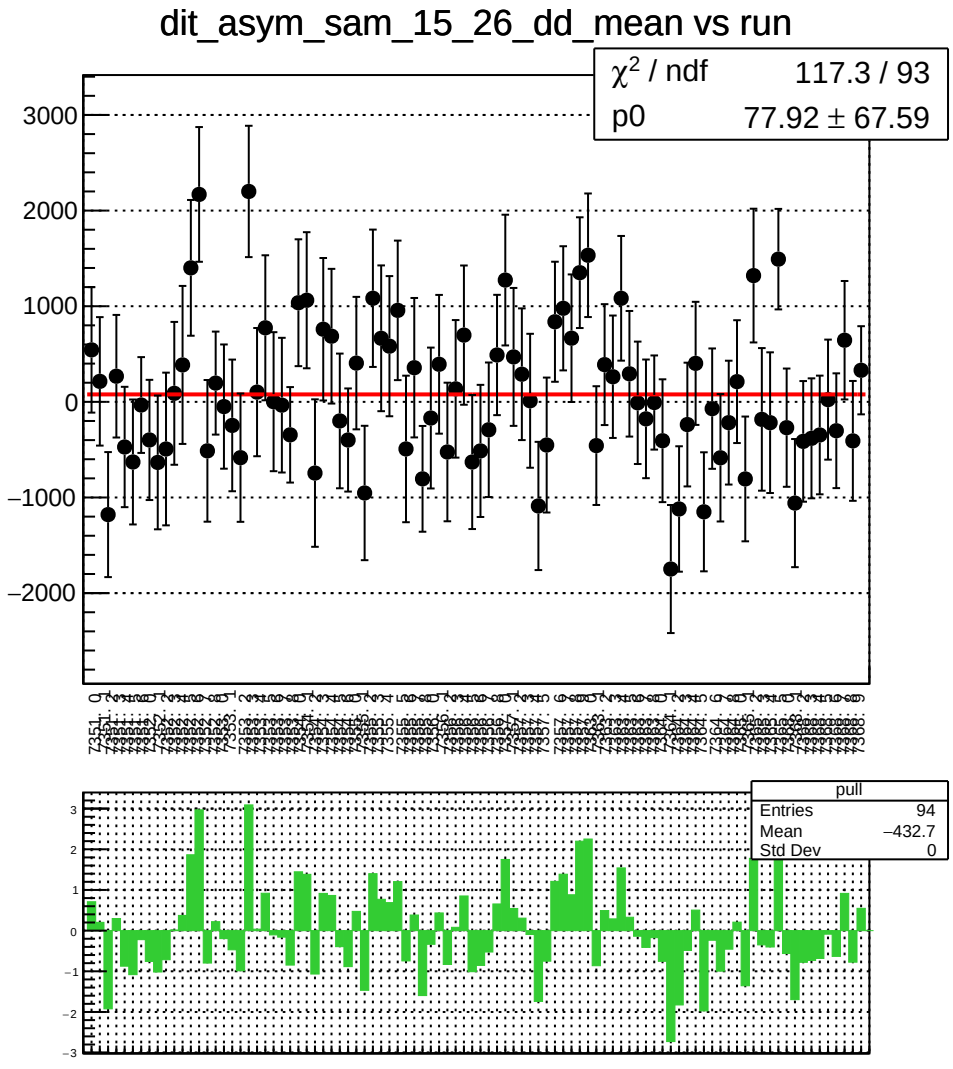

asym_sam_15_26_dd_cor_correction_rms vs run
χ² / ndf 1.217e+04 / 93
p0 301.8 ± 0.2245
360
340
320
300
280
260
240

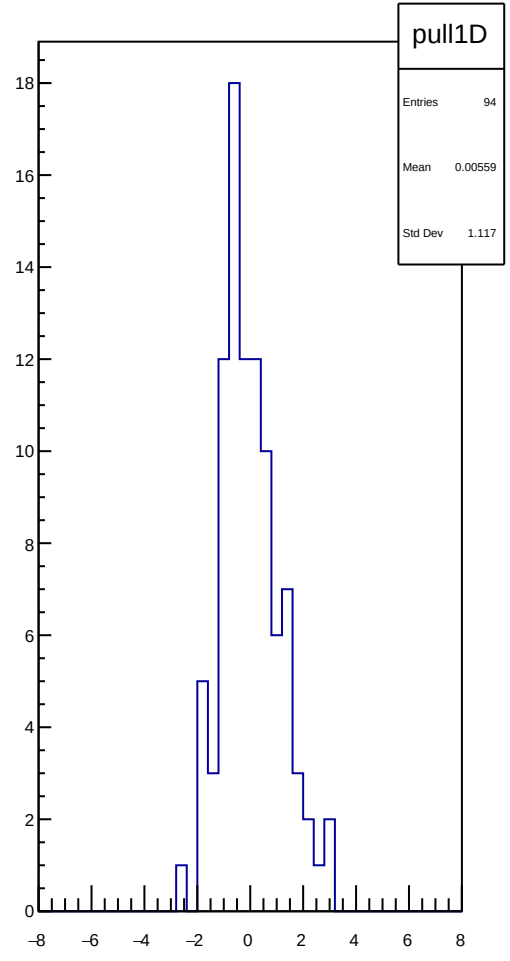

eigen_cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 114.9 / 93
p0 26.85 ± 53.84
pull
Entries 94
Mean −3884
Std Dev 0
pull1D
Entries 94
Mean 0.0003203
Std Dev 1.106

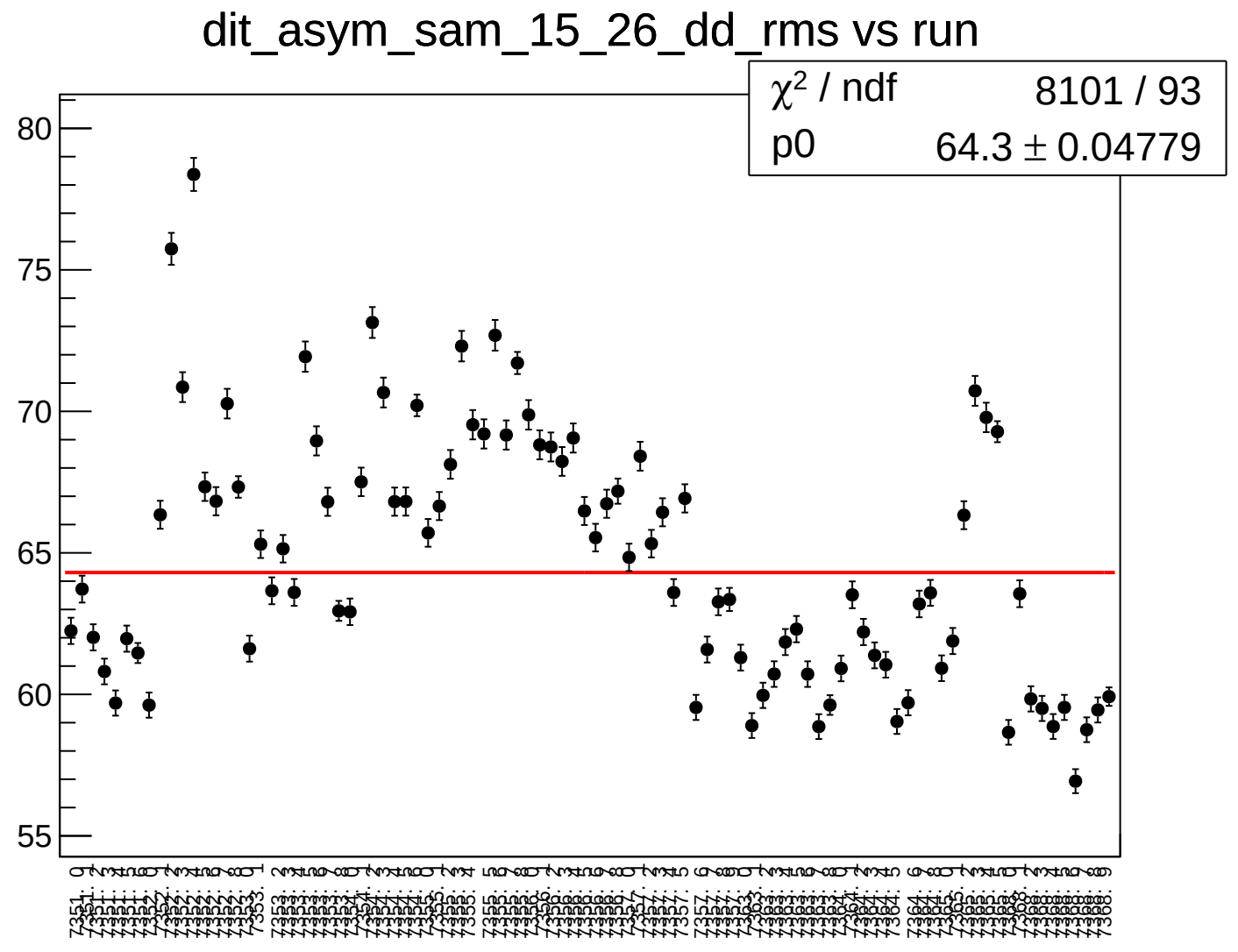

eigen_cor_asym_sam_15_26_dd_rms vs run
χ^2 / ndf 2025 / 93
p0 51.31 ± 0.03807
56
54
52
50
48

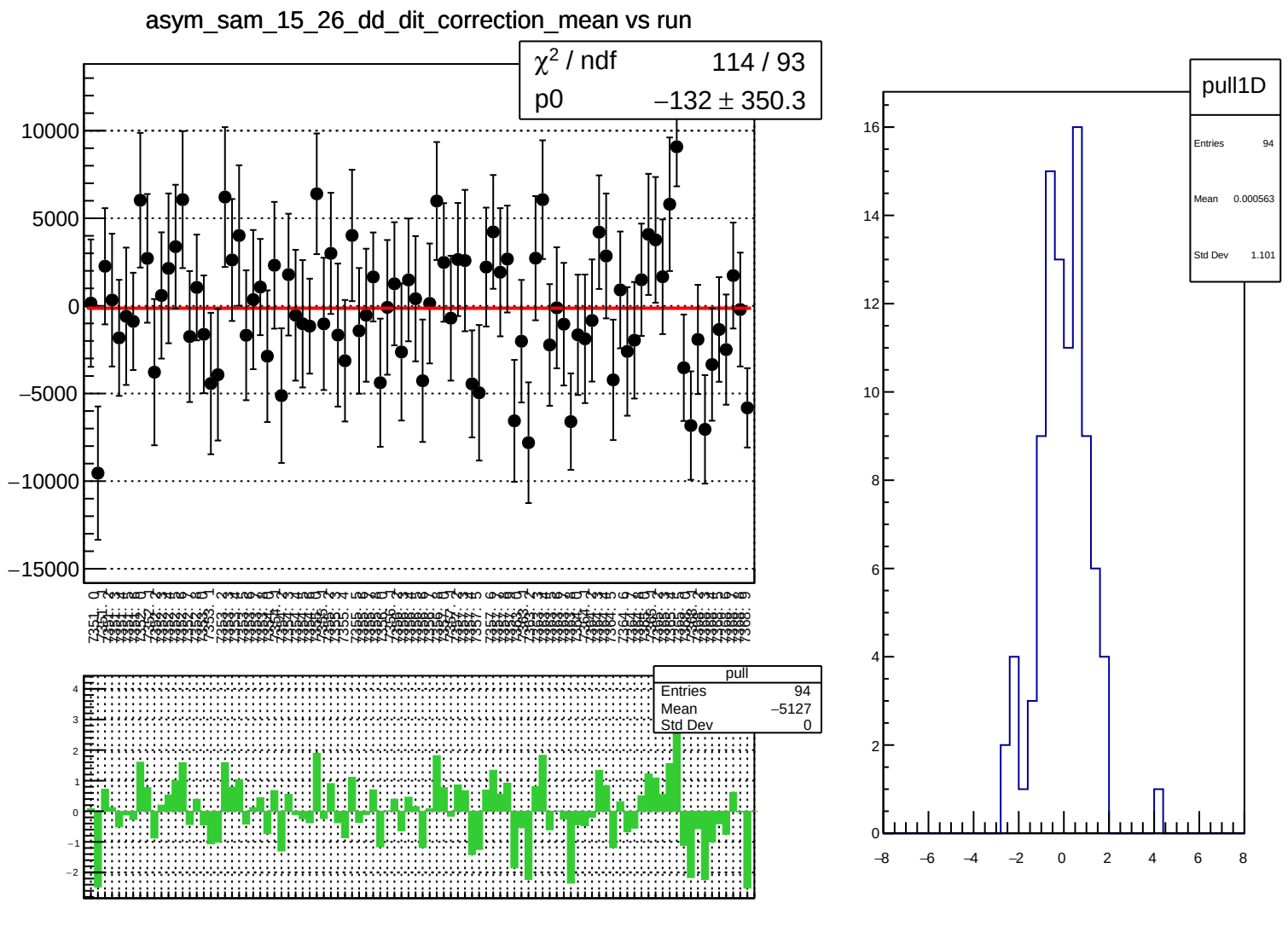

asym_sam_15_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 113.7 / 93
p0 −108.1± 317.5
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean 235.5
Std Dev 0
pull1D
Entries 94
Mean −0.01433
Std Dev 1.1

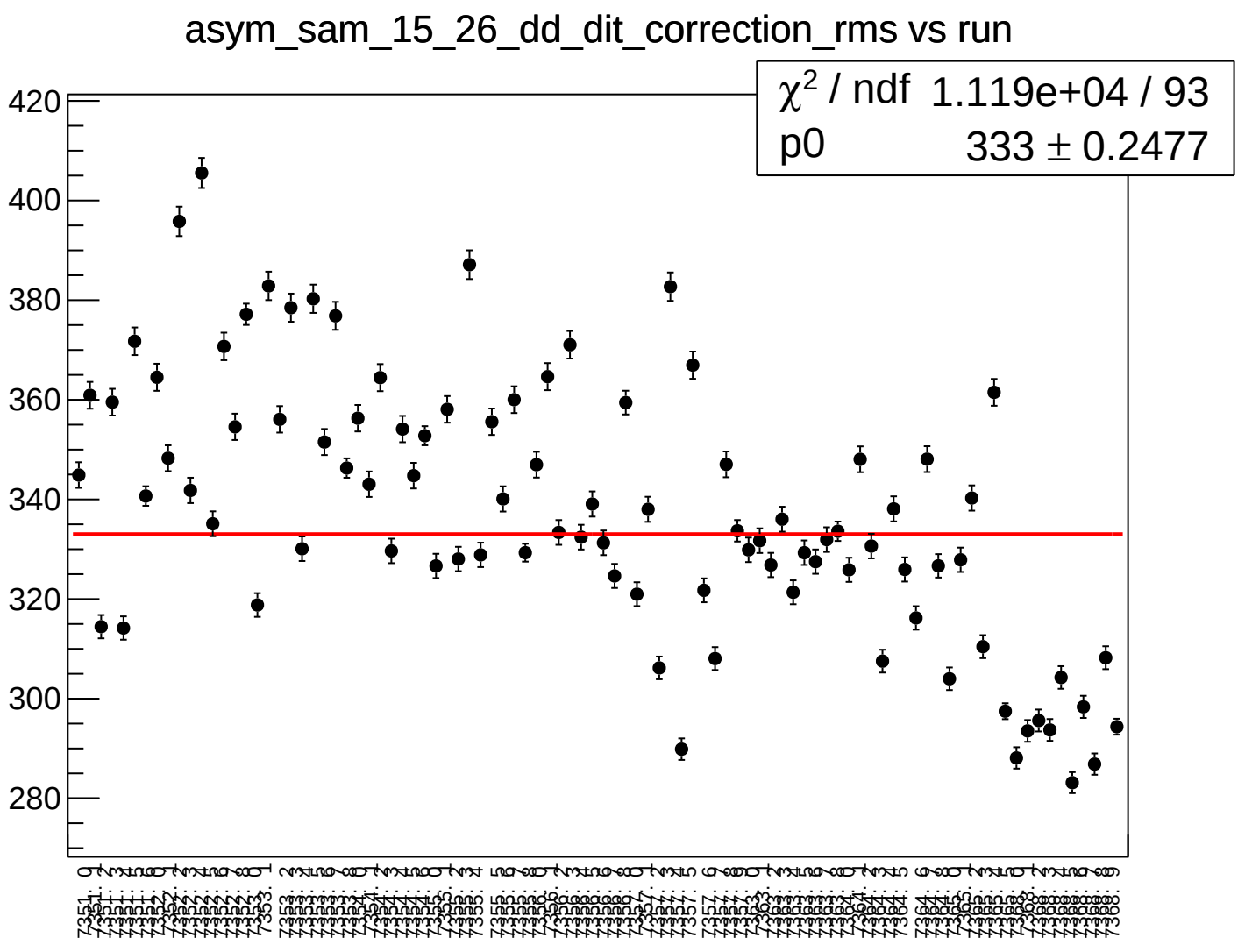

asym_sam_15_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.217e+04 / 93
p0 301.8 ± 0.2245
360
340
320
300
280
260
240

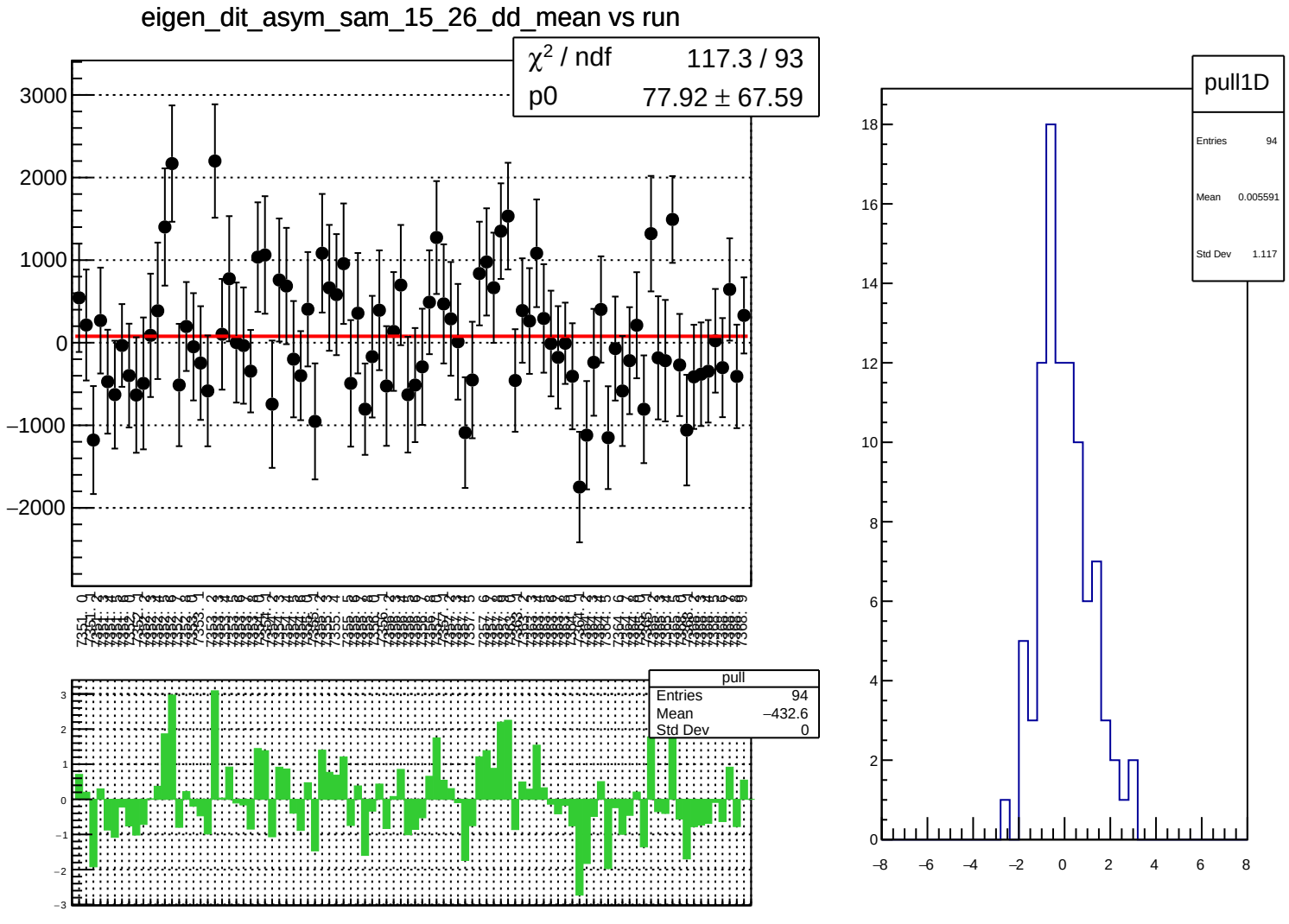

dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 117.3 / 93
p0 77.92 ± 67.59
3000
2000
1000
0
−1000
−2000
pull
Entries 94
Mean −432.7
Std Dev 0
3
2
1
0
−1
−2
−3

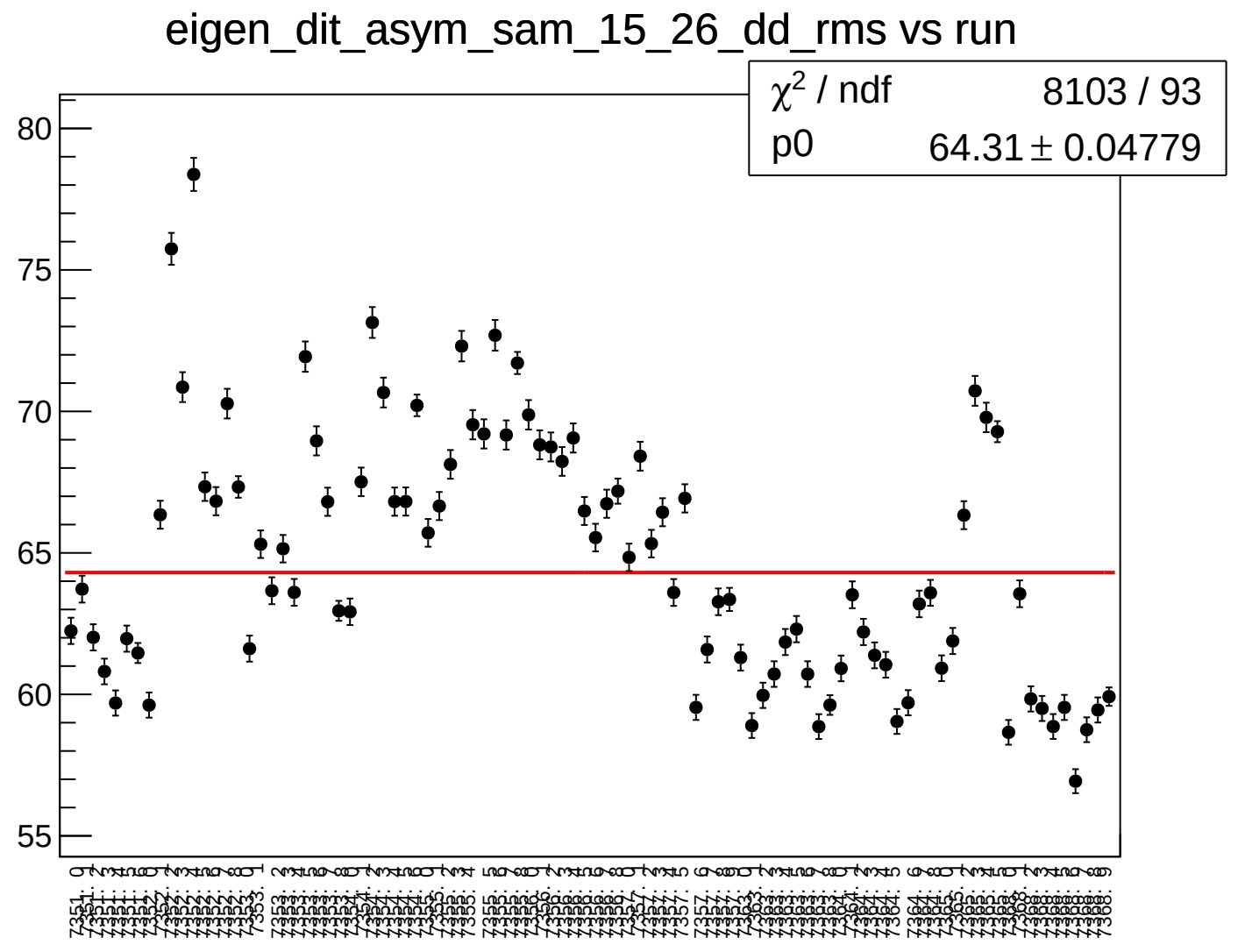

pull1D
Entries 94
Mean 0.00559
Std Dev 1.117
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

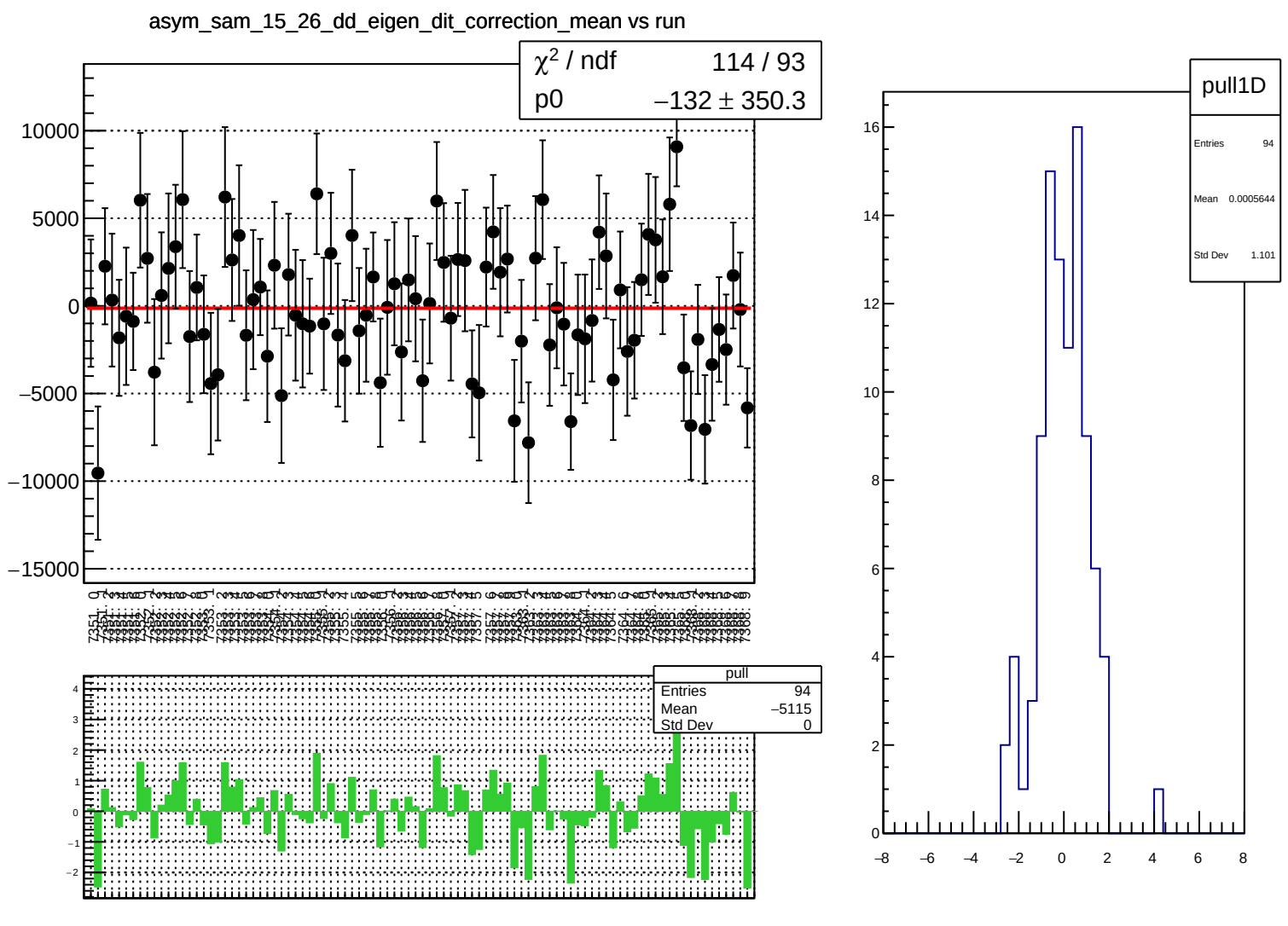

dit_asym_sam_15_26_dd_rms vs run
χ^2 / ndf 8101 / 93
p0 64.3 ± 0.04779
80
75
70
65
60
55

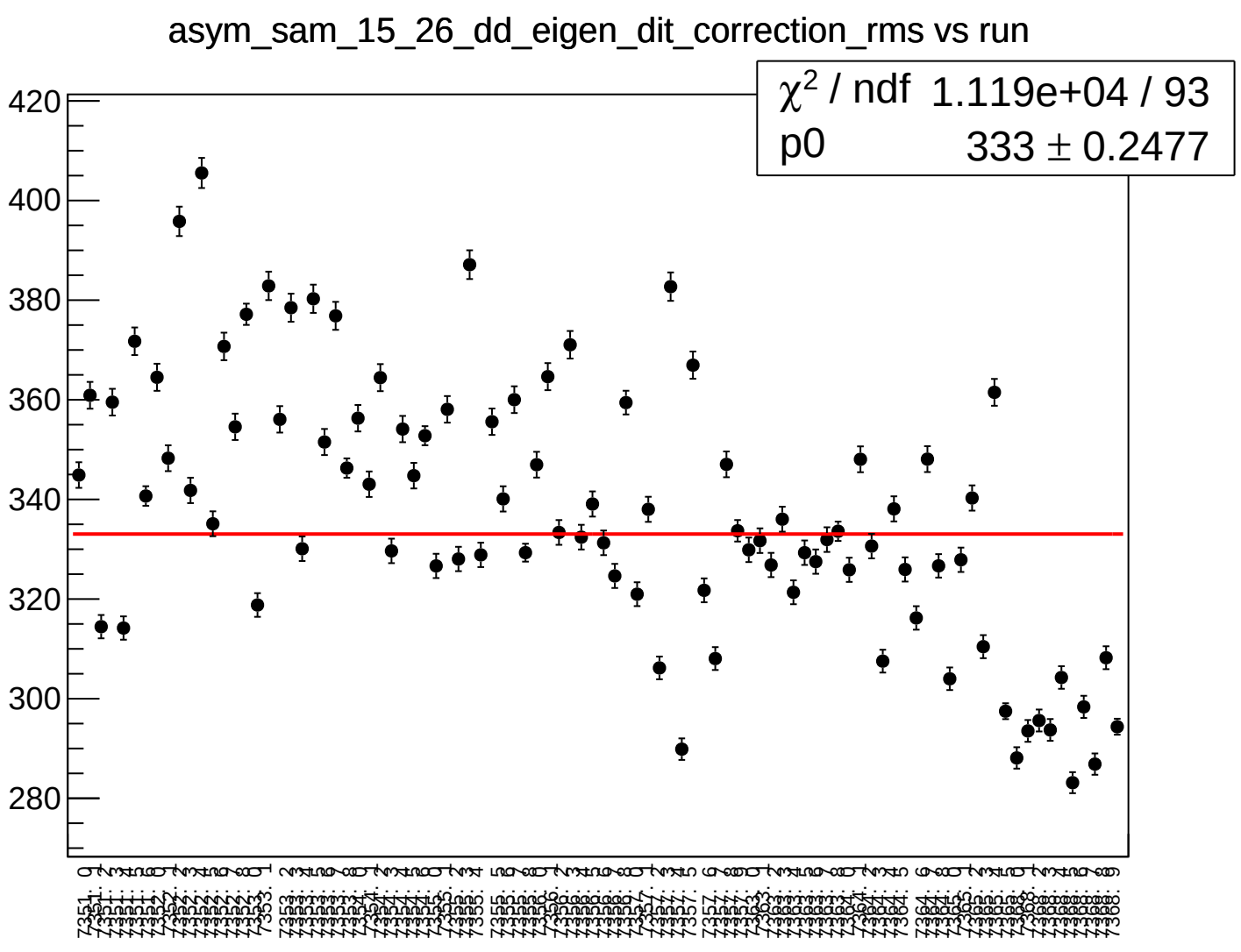

asym_sam_15_26_dd_dit_correction_mean vs run
χ² / ndf 114 / 93
p0 −132 ± 350.3
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean −5127
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.000563
Std Dev 1.101
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

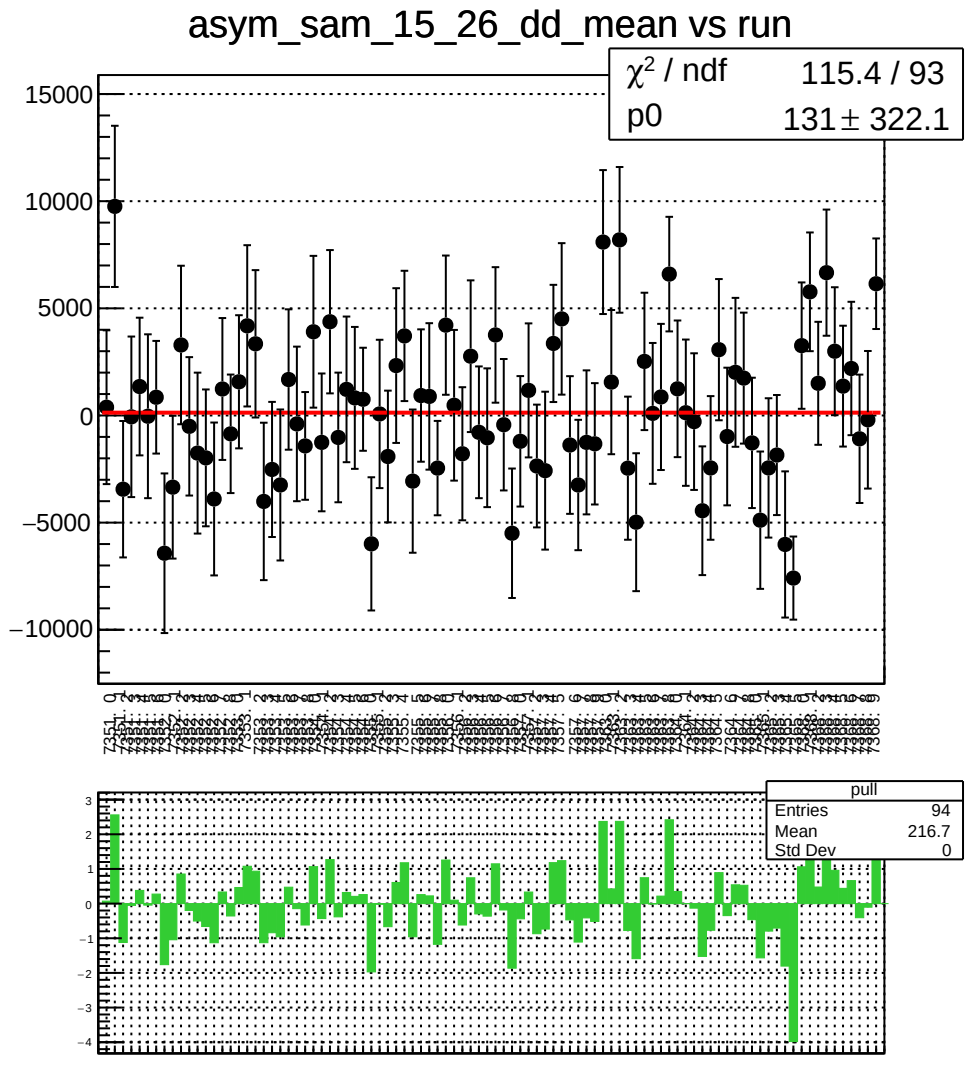

asym_sam_15_26_dd_dit_correction_rms vs run
χ² / ndf 1.119e+04 / 93
p0 333 ± 0.2477
420
400
380
360
340
320
300
280

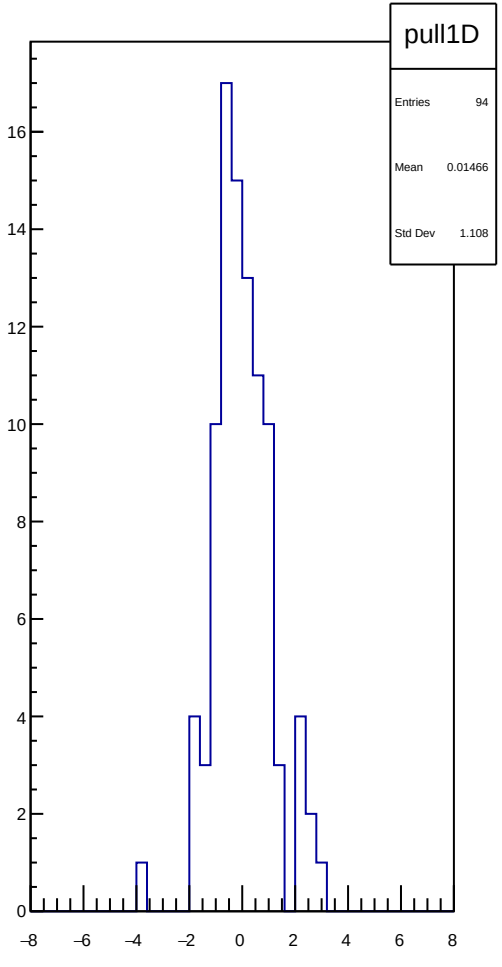

eigen_dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 117.3 / 93
p0 77.92 ± 67.59
3000
2000
1000
0
−1000
−2000
pull
Entries 94
Mean −432.6
Std Dev 0
pull1D
Entries 94
Mean 0.005591
Std Dev 1.117

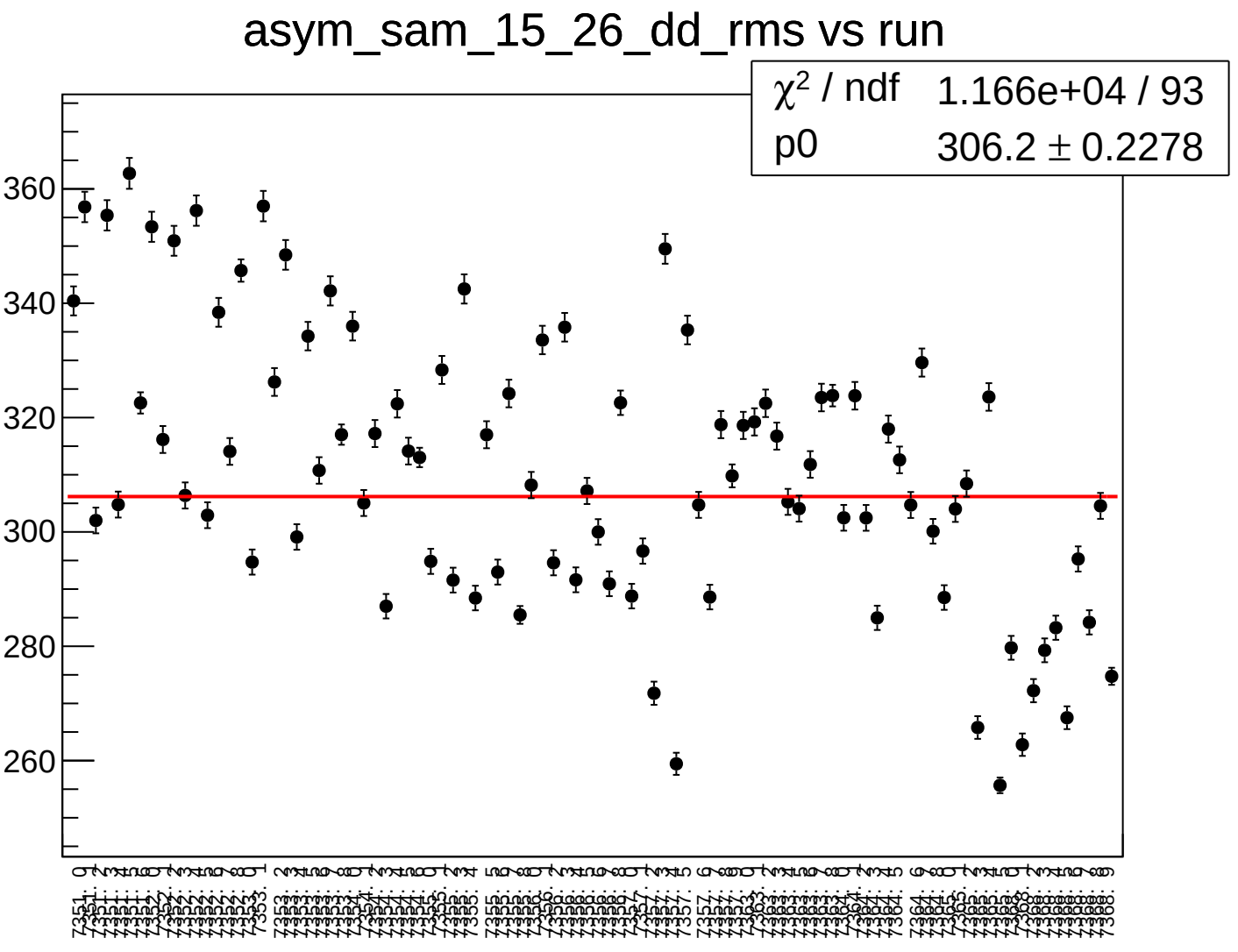

eigen_dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 8103 / 93
p0 64.31 ± 0.04779
80
75
70
65
60
55

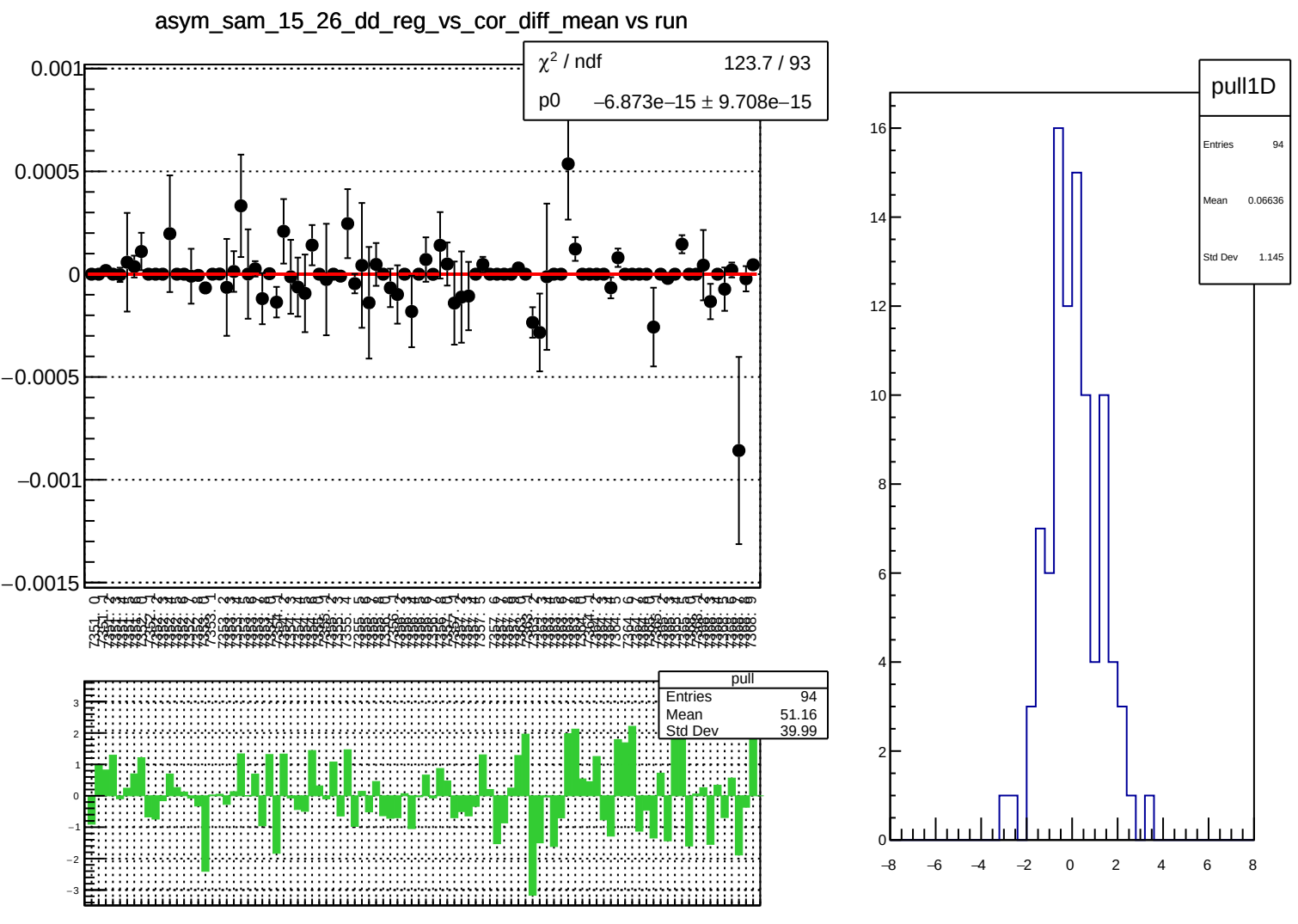

asym_sam_15_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 114 / 93
p0 −132 ± 350.3
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean −5115
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.0005644
Std Dev 1.101
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

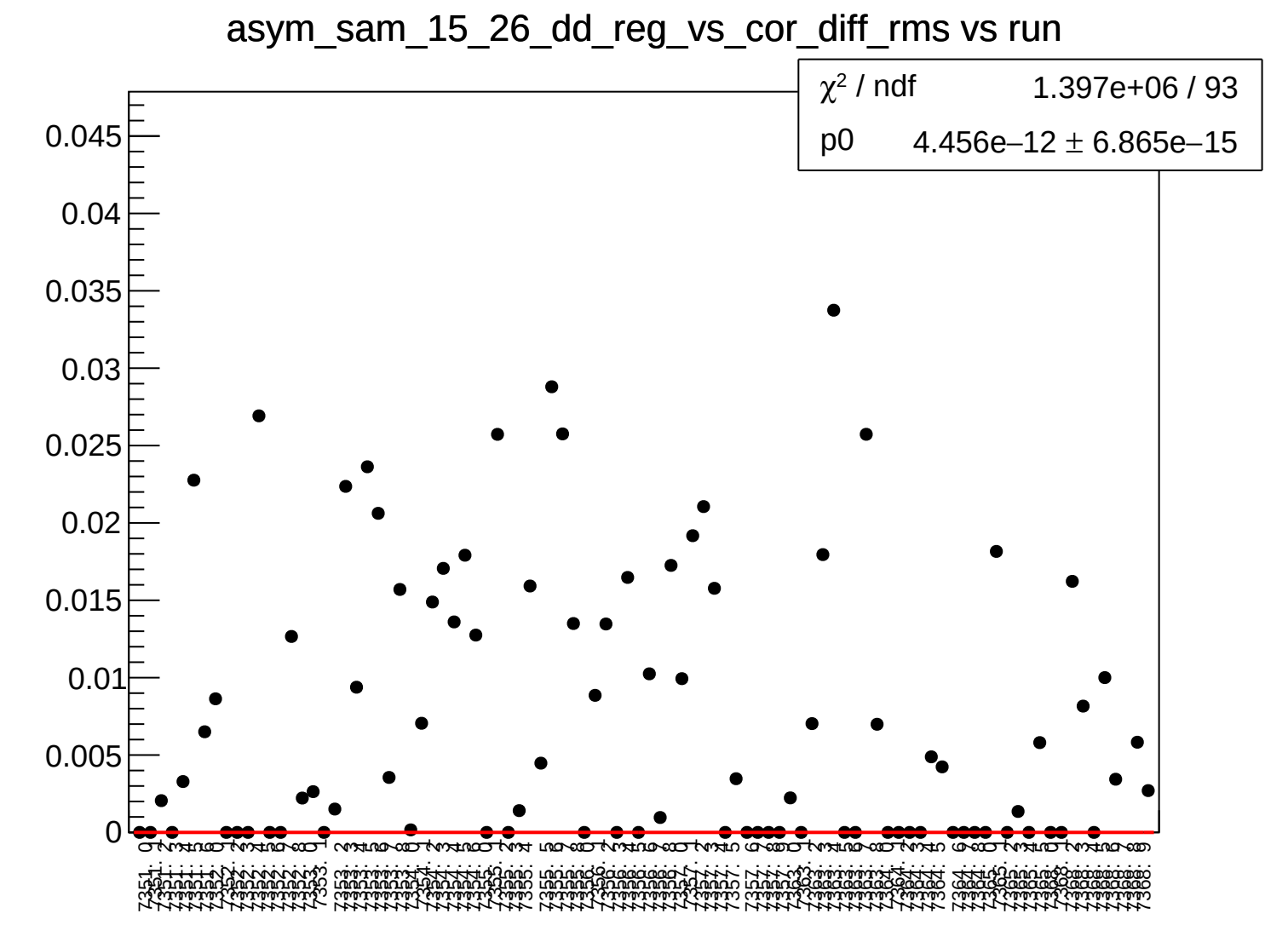

asym_sam_15_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.119e+04 / 93
p0 333 ± 0.2477
420
400
380
360
340
320
300
280

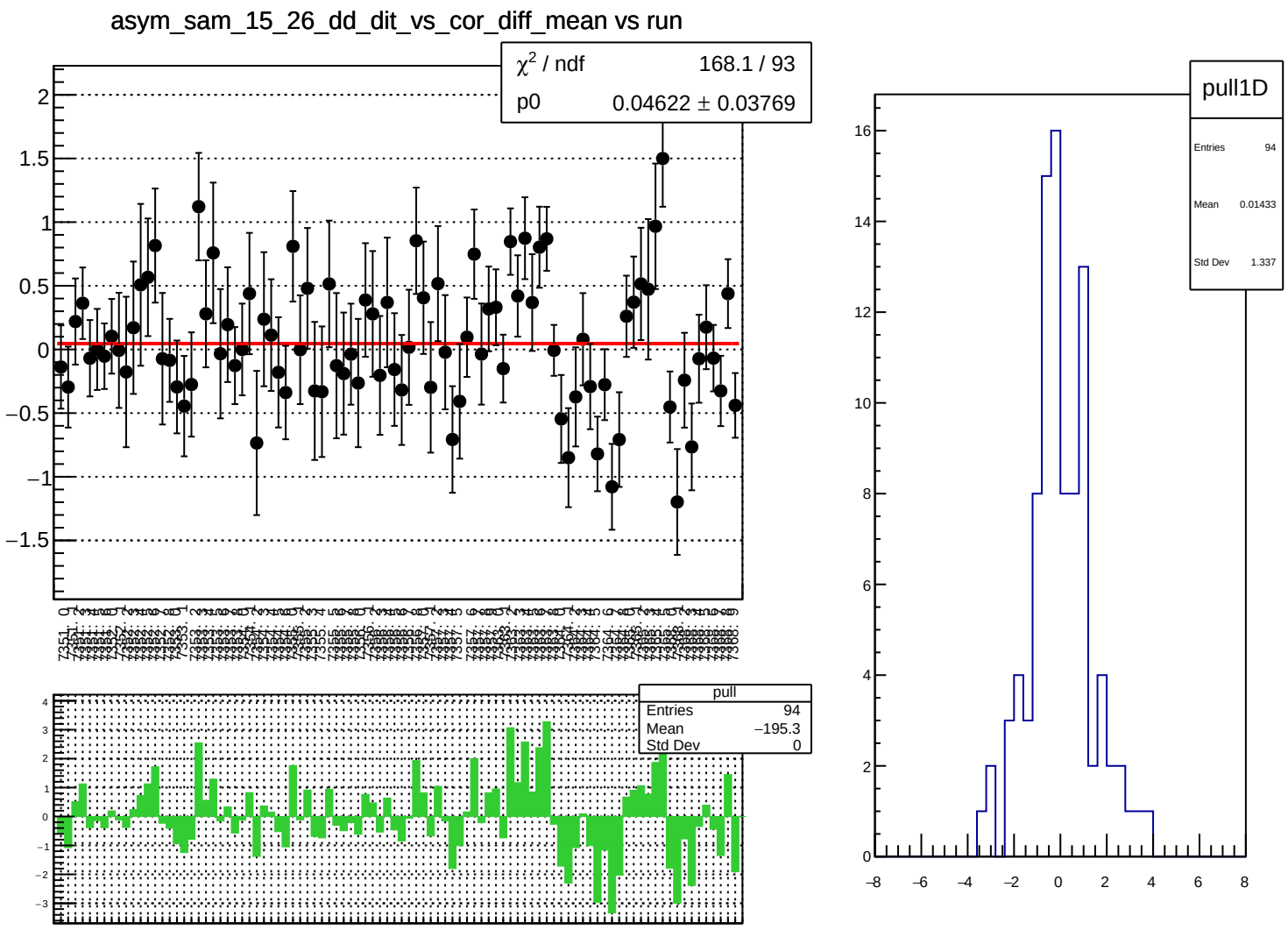

asym_sam_15_26_dd_mean vs run
χ² / ndf 115.4 / 93
p0 131 ± 322.1
15000
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 216.7
Std Dev 0
3
2
1
0
−1
−2
−3
−4

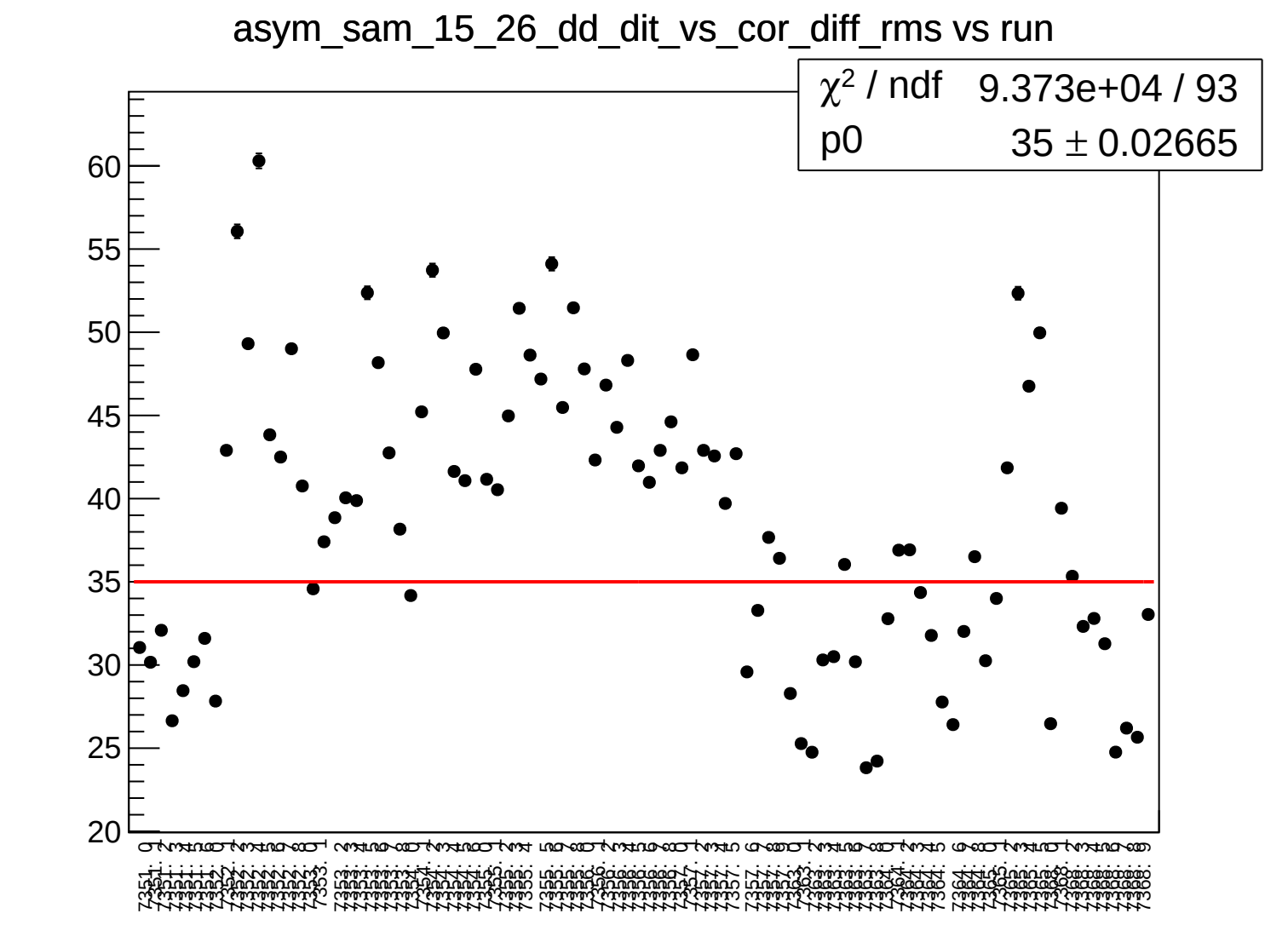

pull1D
Entries 94
Mean 0.01466
Std Dev 1.108
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

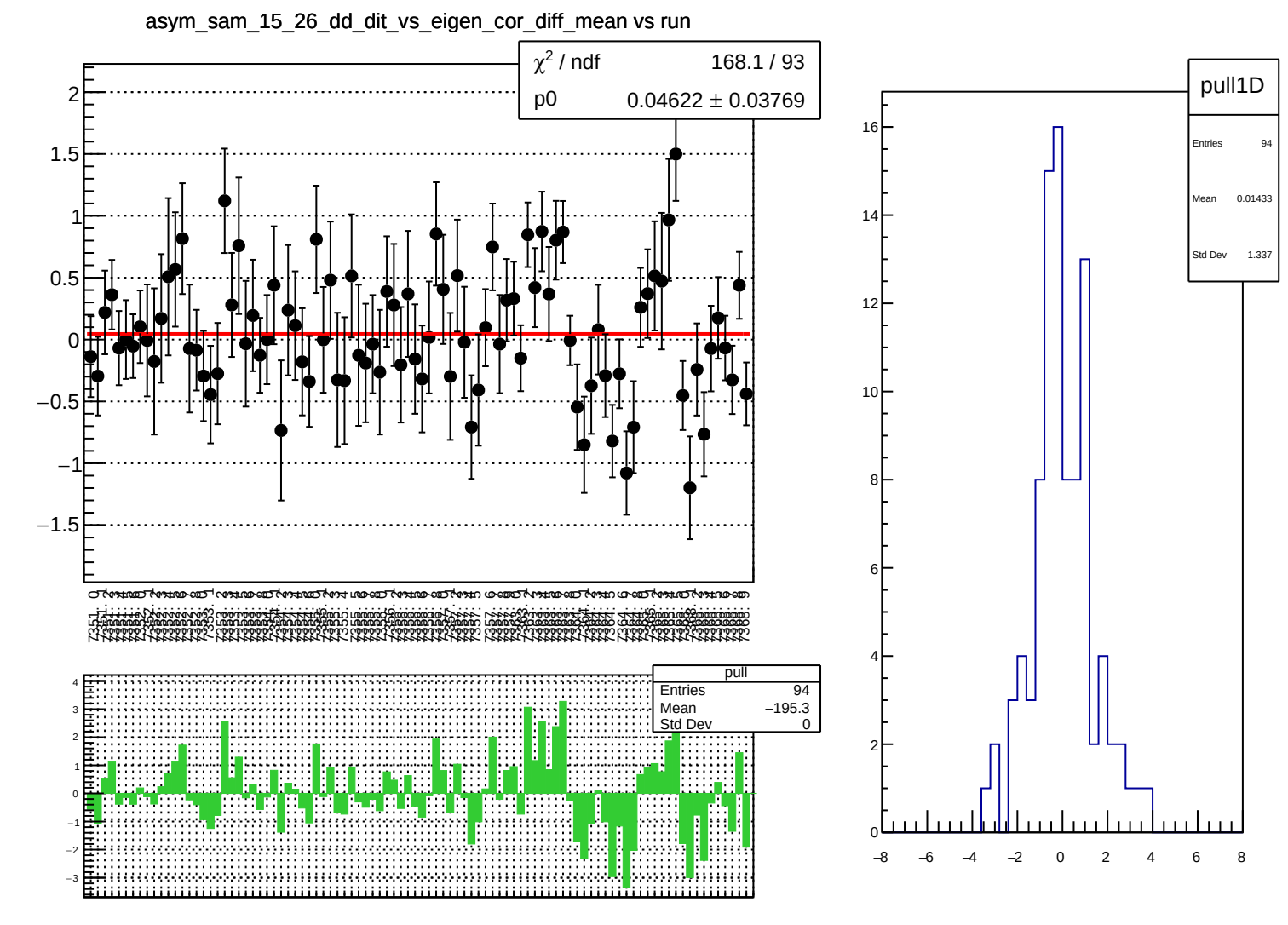

asym_sam_15_26_dd_rms vs run
χ² / ndf 1.166e+04 / 93
p0 306.2 ± 0.2278
360
340
320
300
280
260

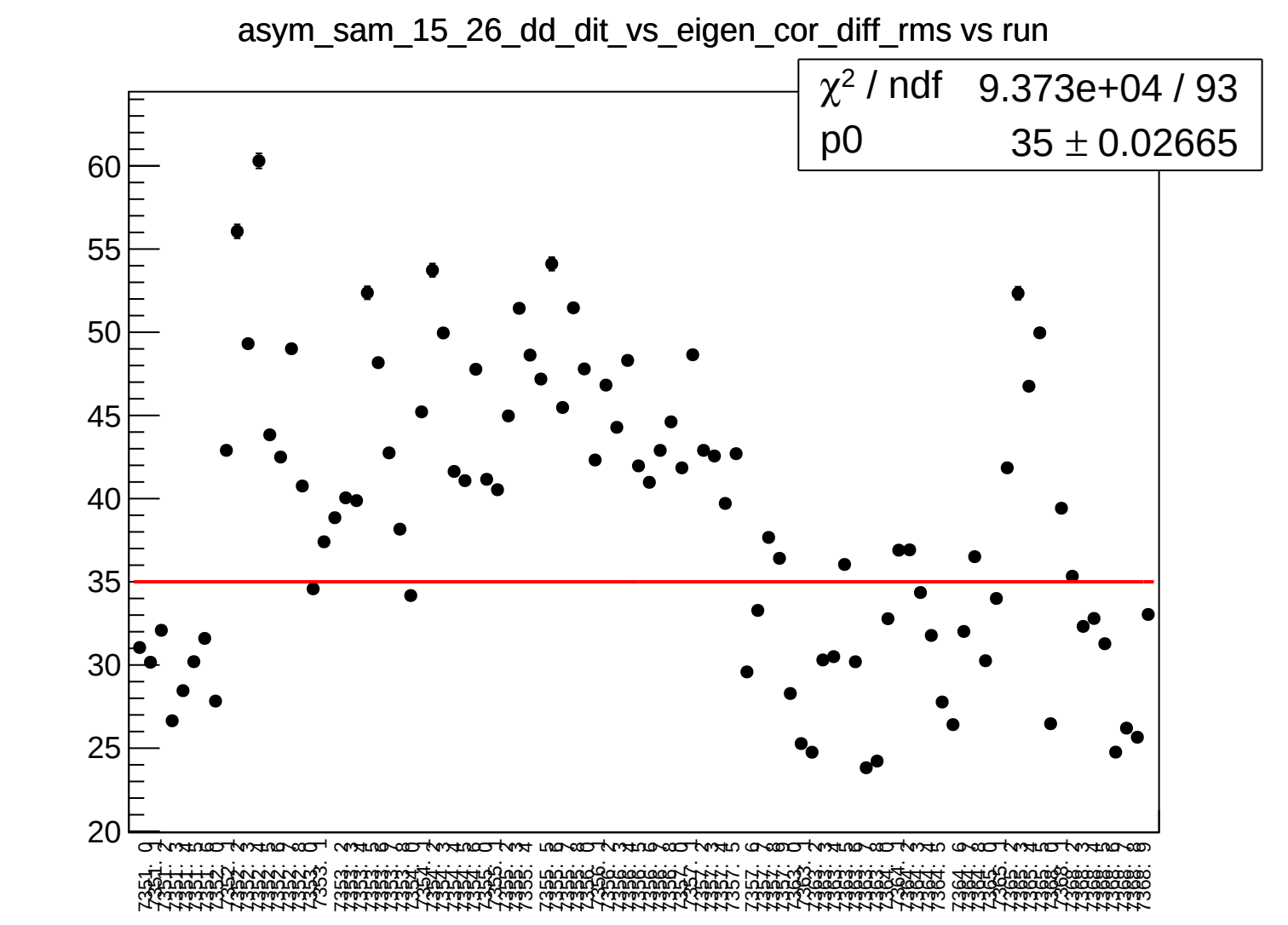

asym_sam_15_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 123.7 / 93
p0 −6.873e−15 ± 9.708e−15
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 94
Mean 51.16
Std Dev 39.99
pull1D
Entries 94
Mean 0.06636
Std Dev 1.145

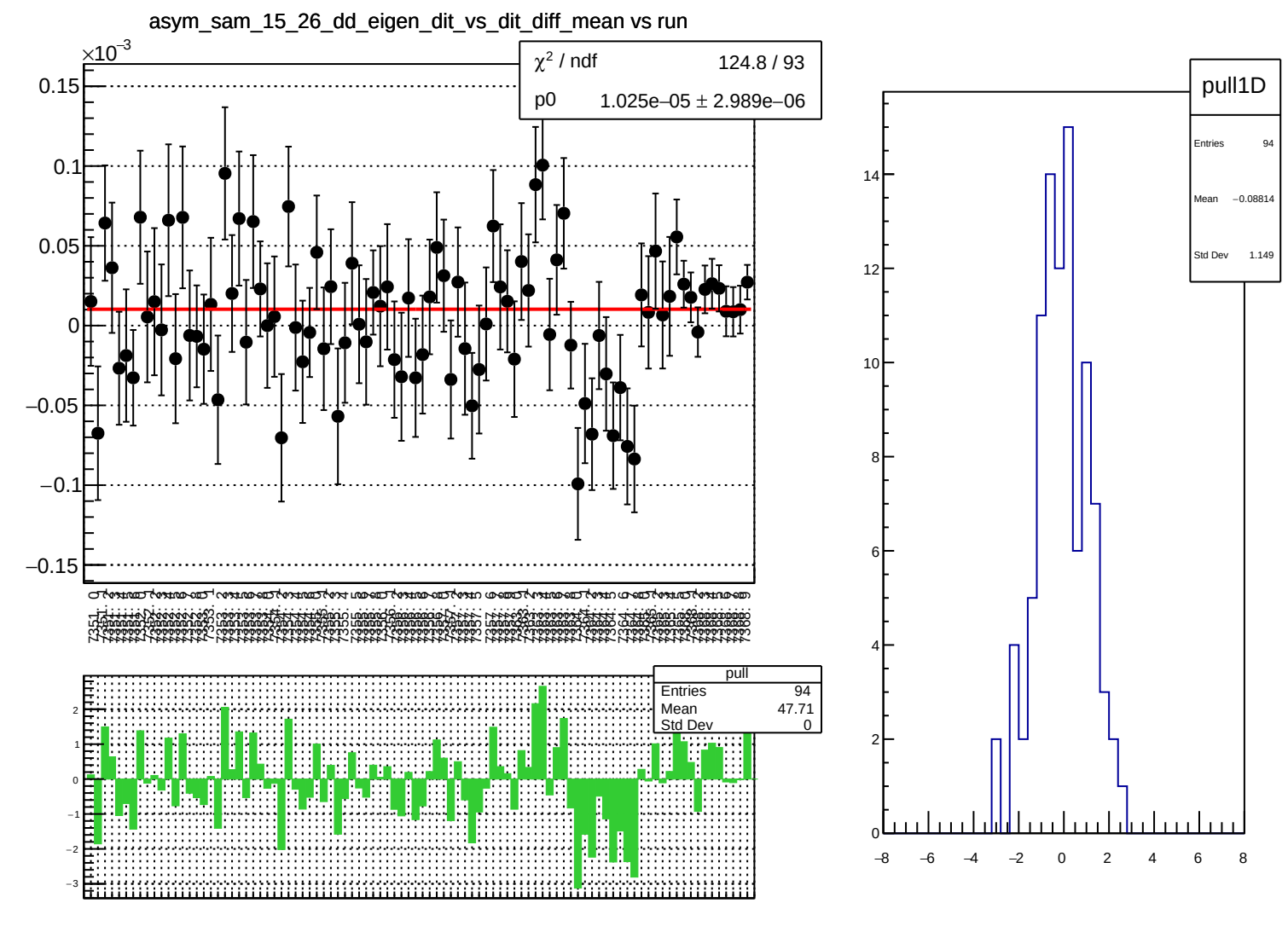

asym_sam_15_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.397e+06 / 93
p0 4.456e−12 ± 6.865e−15
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

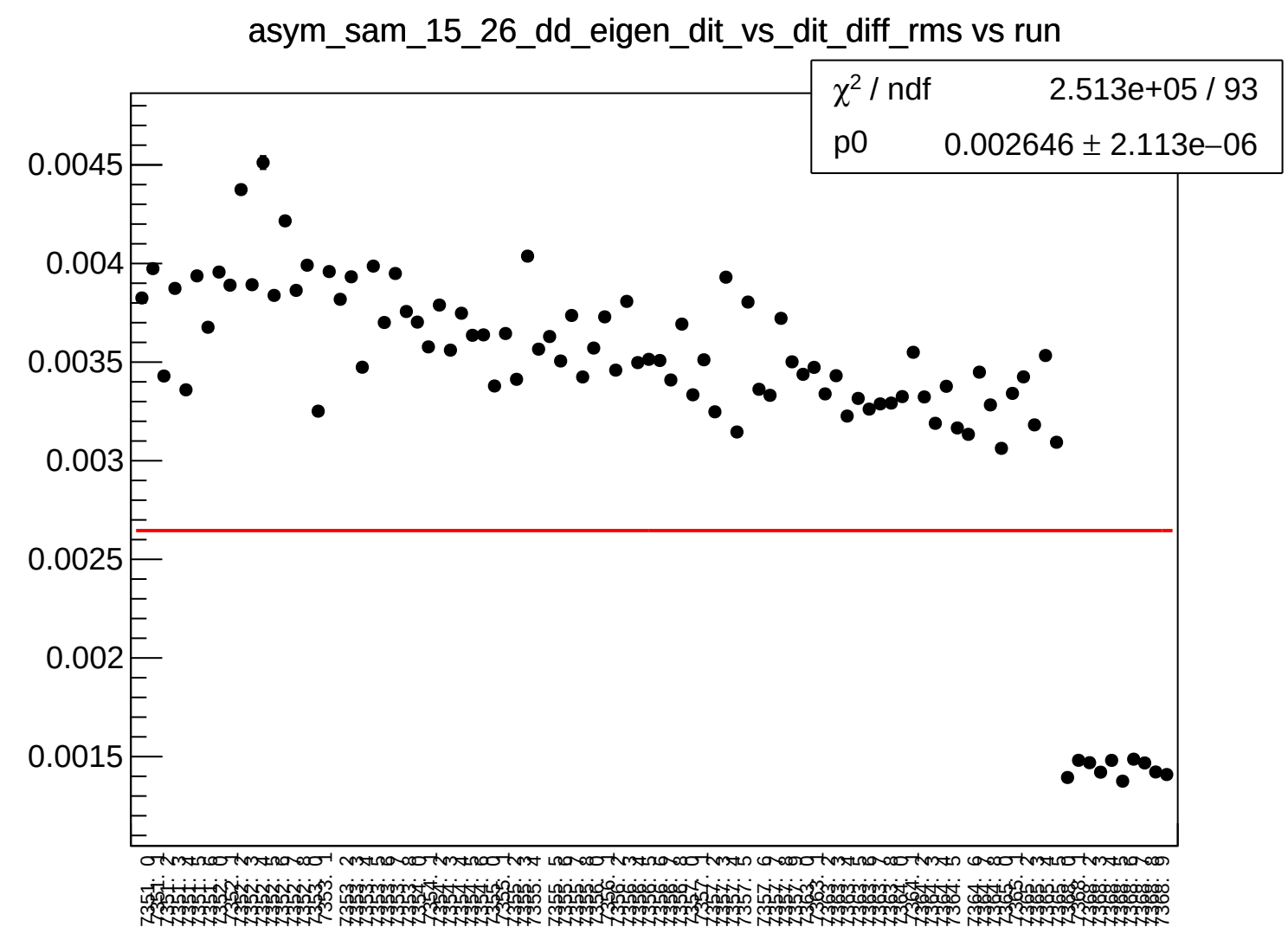

asym_sam_15_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 168.1 / 93
p0 0.04622 ± 0.03769
pull
Entries 94
Mean −195.3
Std Dev 0
pull1D
Entries 94
Mean 0.01433
Std Dev 1.337

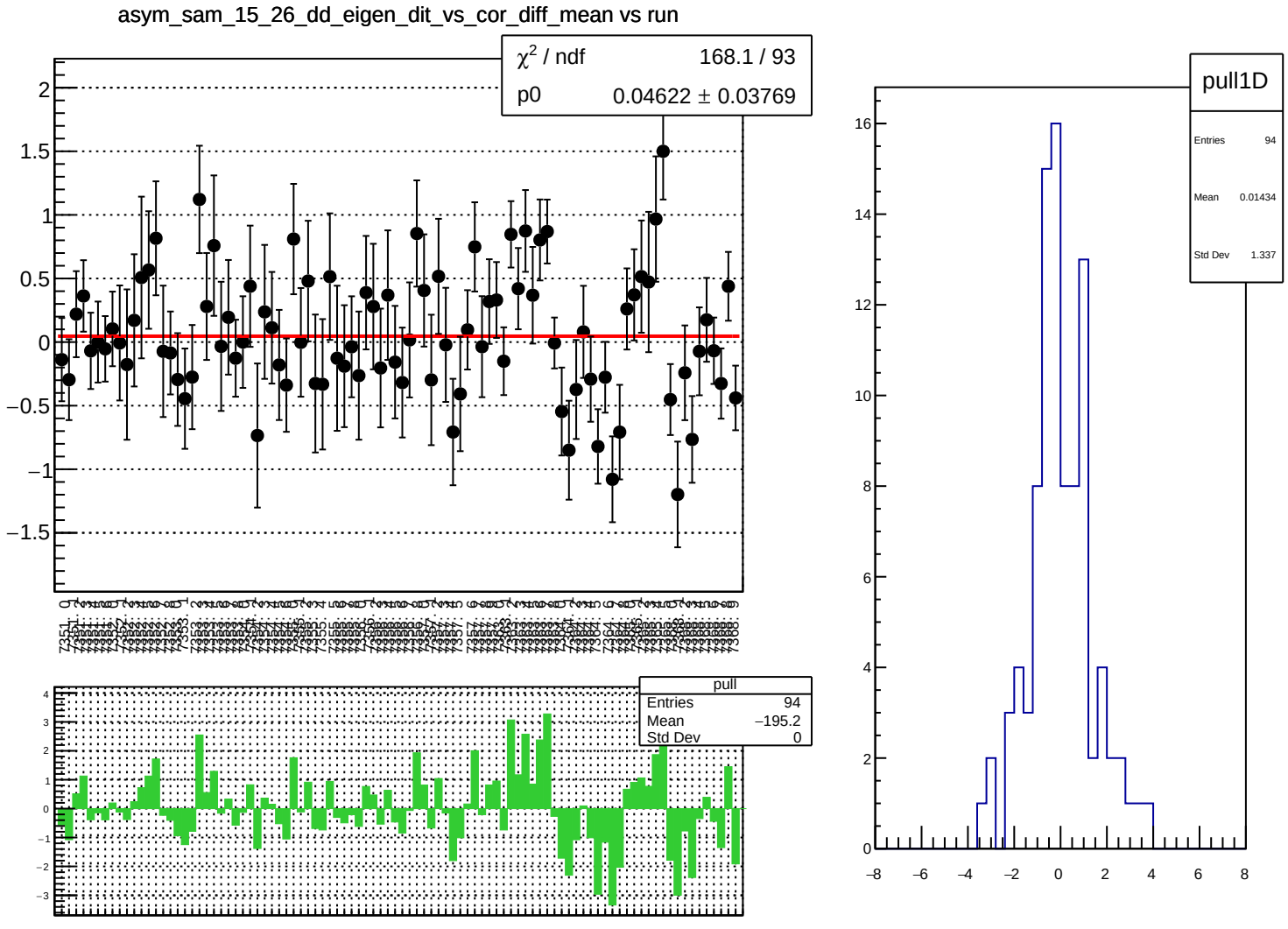

asym_sam_15_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9.373e+04 / 93
p0 35 ± 0.02665
60
55
50
45
40
35
30
25
20

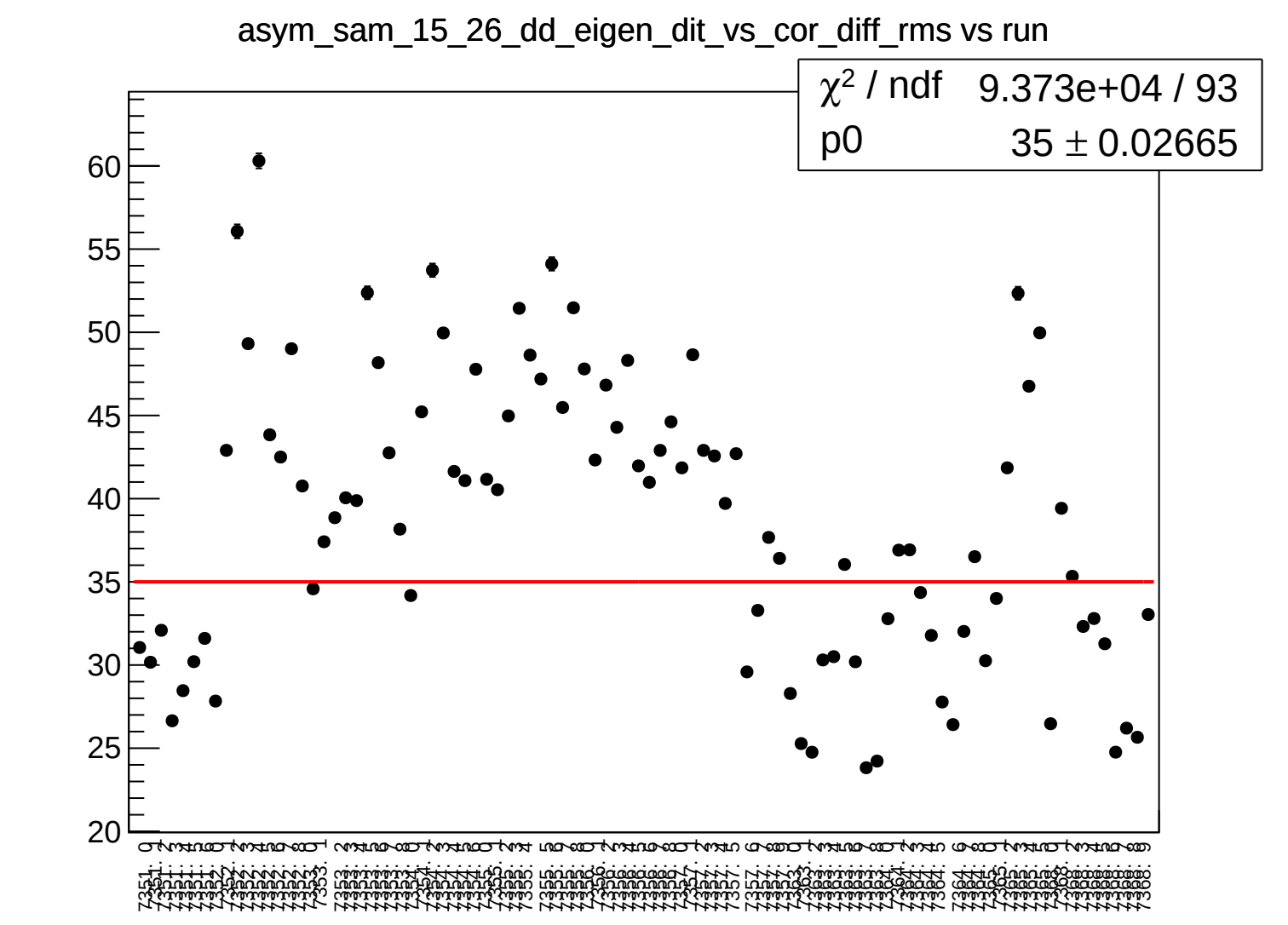

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 168.1 / 93
p0 0.04622 ± 0.03769
pull
Entries 94
Mean −195.3
Std Dev 0
pull1D
Entries 94
Mean 0.01433
Std Dev 1.337

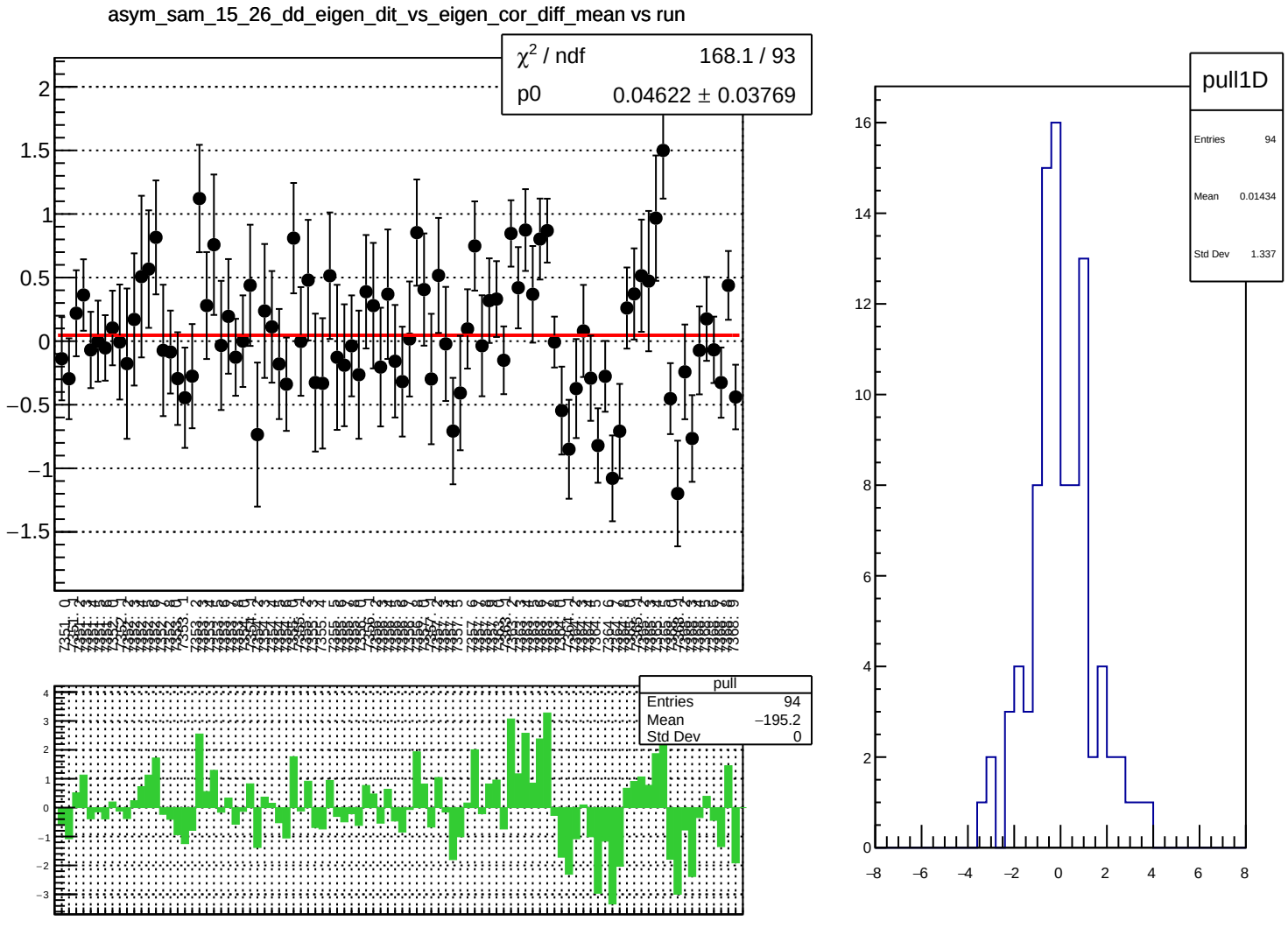

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.373e+04 / 93
p0 35 ± 0.02665
60
55
50
45
40
35
30
25
20

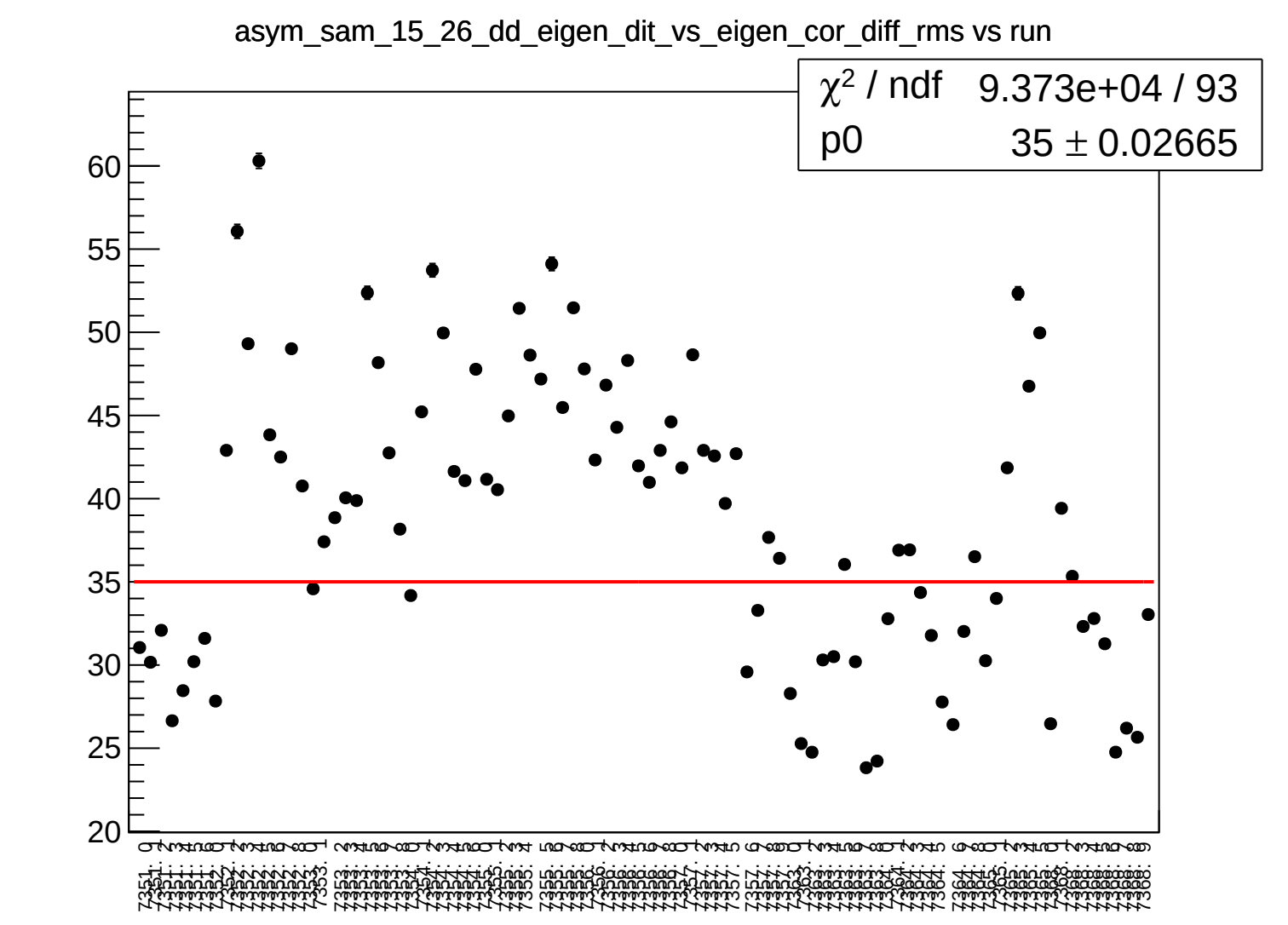

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 124.8 / 93
p0 1.025e−05 ± 2.989e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 94
Mean 47.71
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.08814
Std Dev 1.149
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

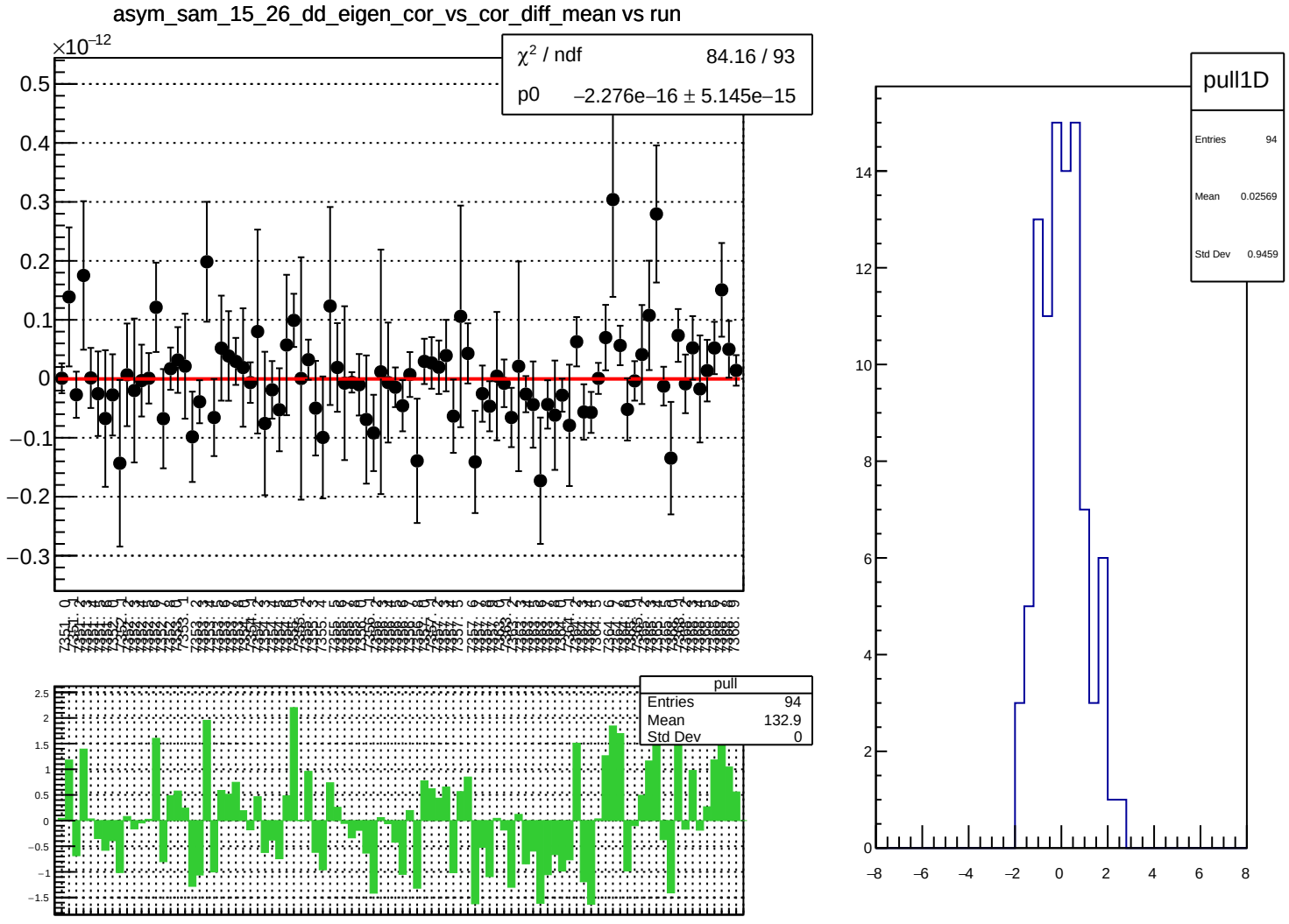

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.513e+05 / 93
p0 0.002646 ± 2.113e−06
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015

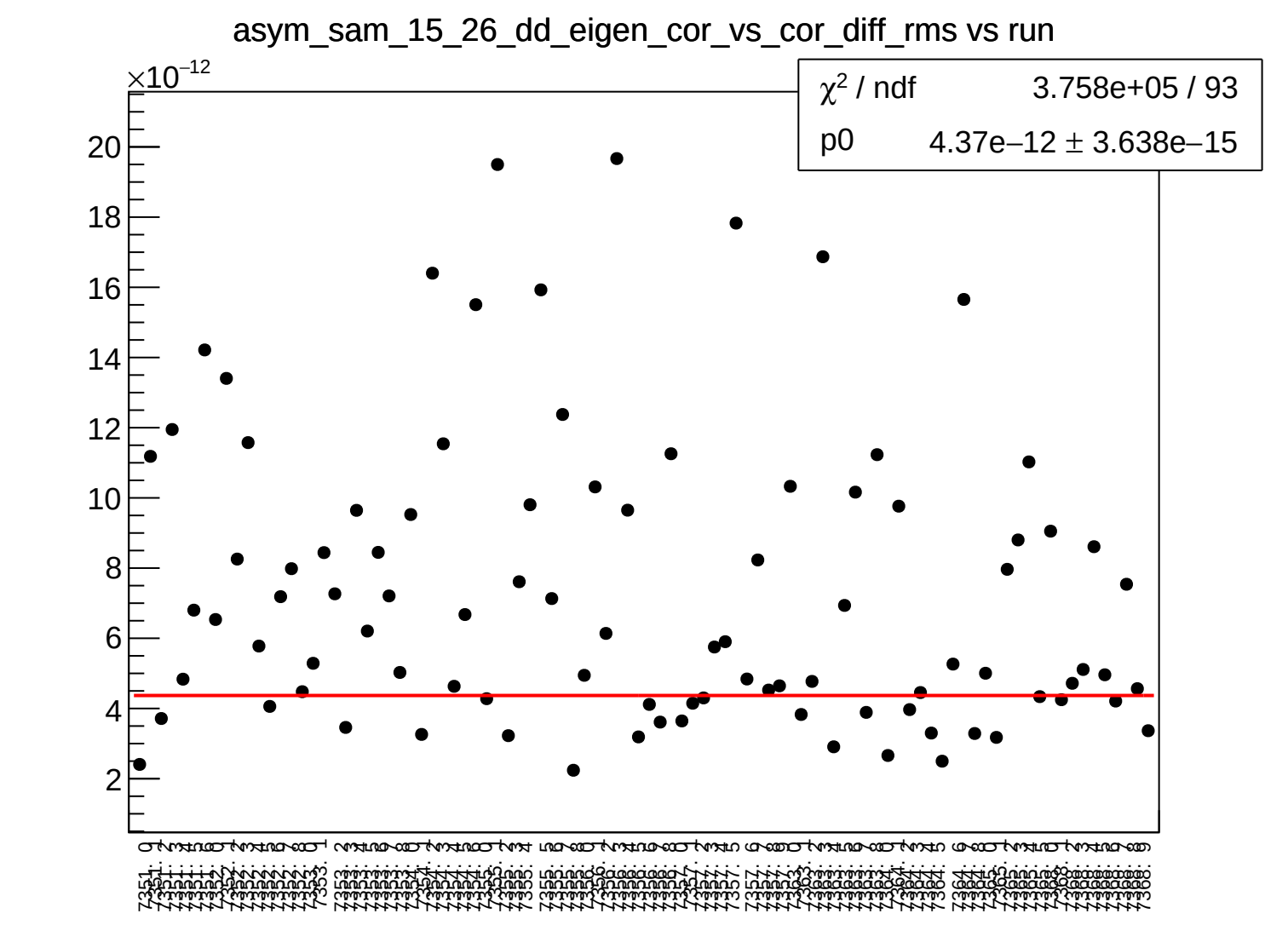

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 168.1 / 93
p0 0.04622 ± 0.03769
pull
Entries 94
Mean −195.2
Std Dev 0
pull1D
Entries 94
Mean 0.01434
Std Dev 1.337

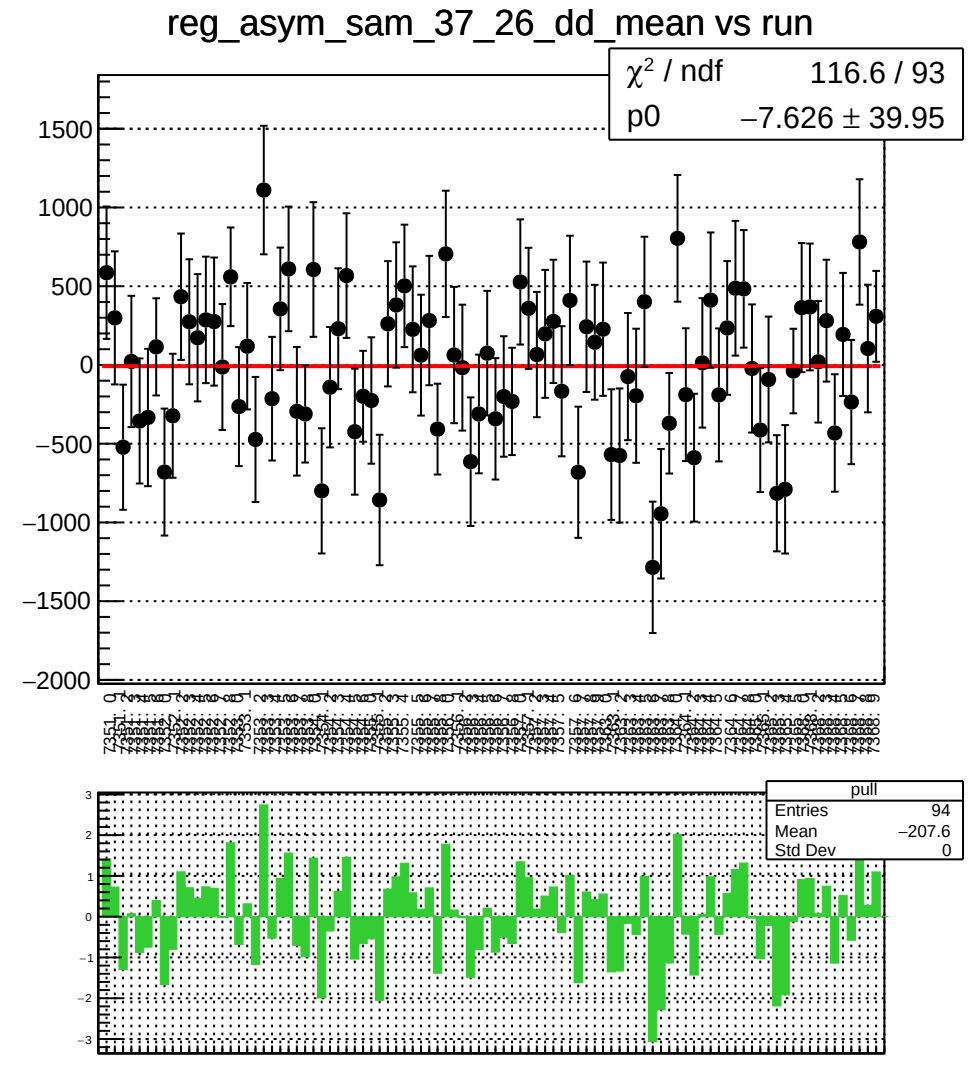

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.373e+04 / 93
p0 35 ± 0.02665
60
55
50
45
40
35
30
25
20

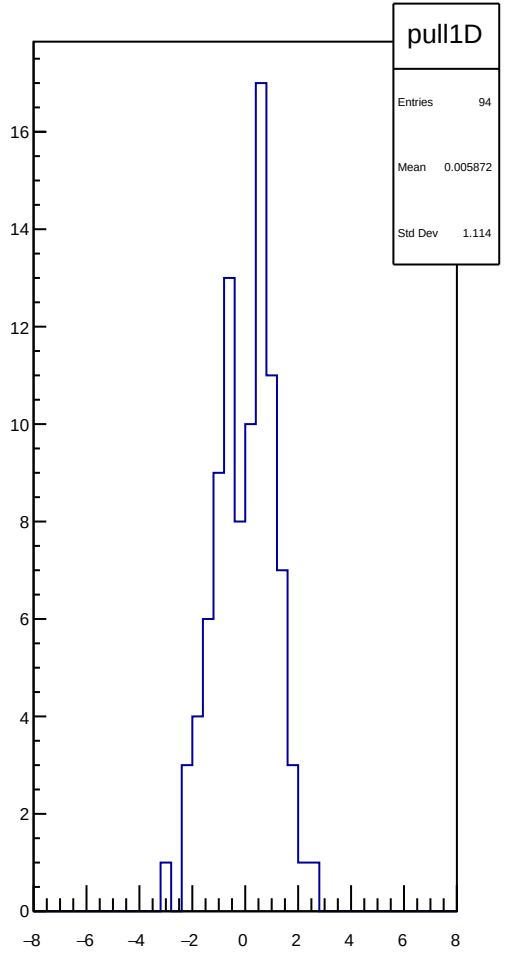

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 168.1 / 93
p0 0.04622 ± 0.03769
pull
Entries 94
Mean −195.2
Std Dev 0
pull1D
Entries 94
Mean 0.01434
Std Dev 1.337

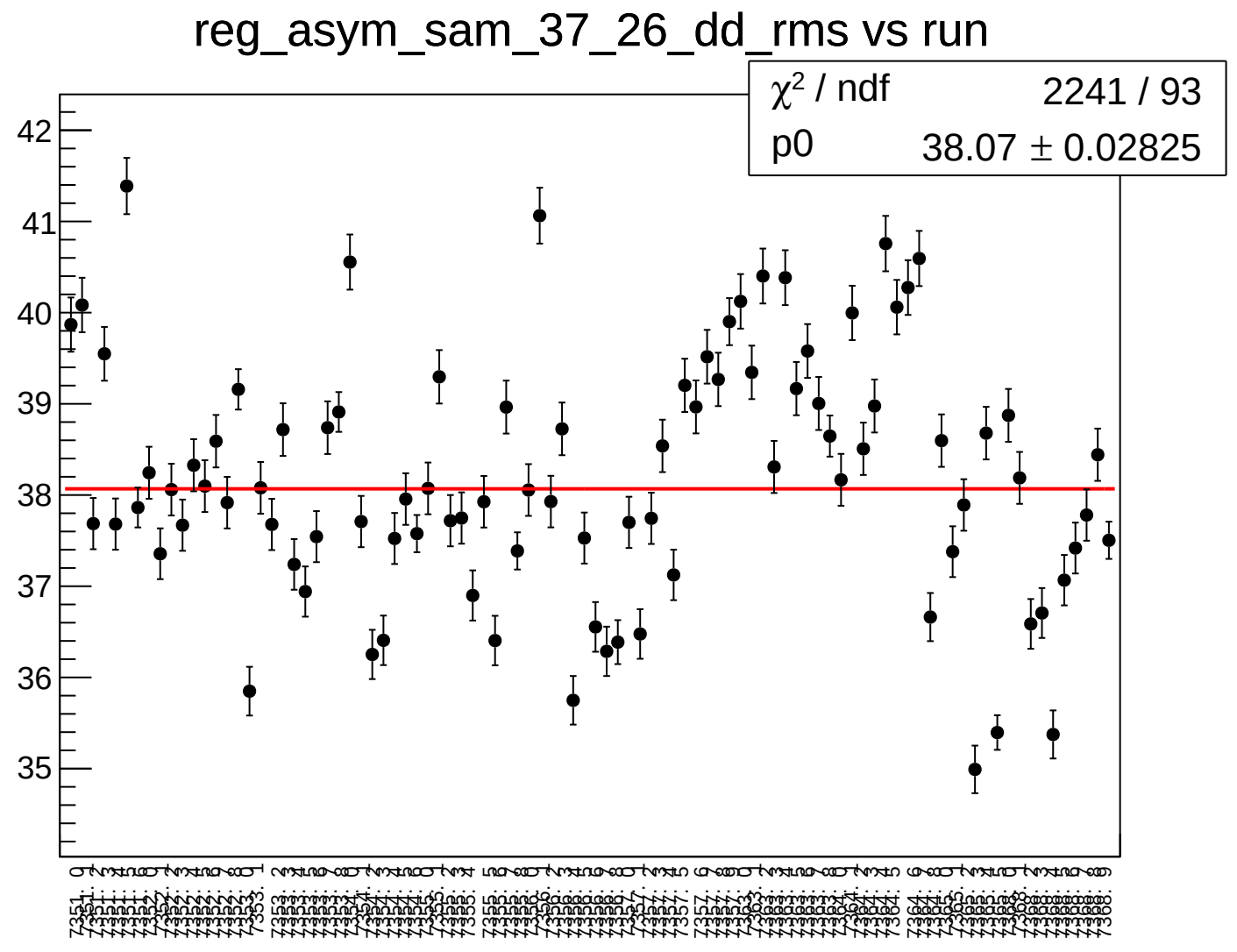

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.373e+04 / 93
p0 35 ± 0.02665
60
55
50
45
40
35
30
25
20

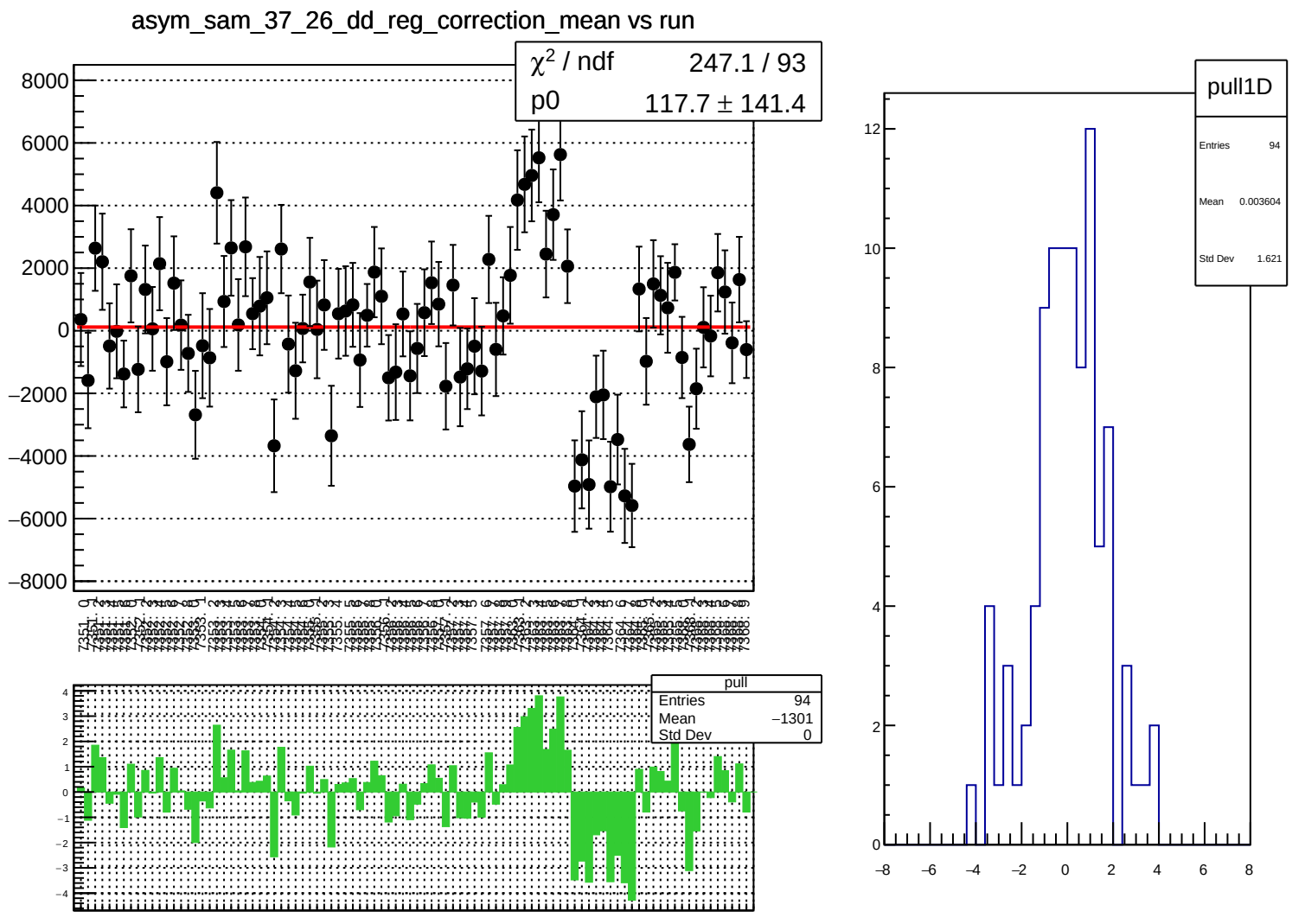

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.16 / 93
p0 −2.276e−16 ± 5.145e−15
pull
Entries 94
Mean 132.9
Std Dev 0
pull1D
Entries 94
Mean 0.02569
Std Dev 0.9459

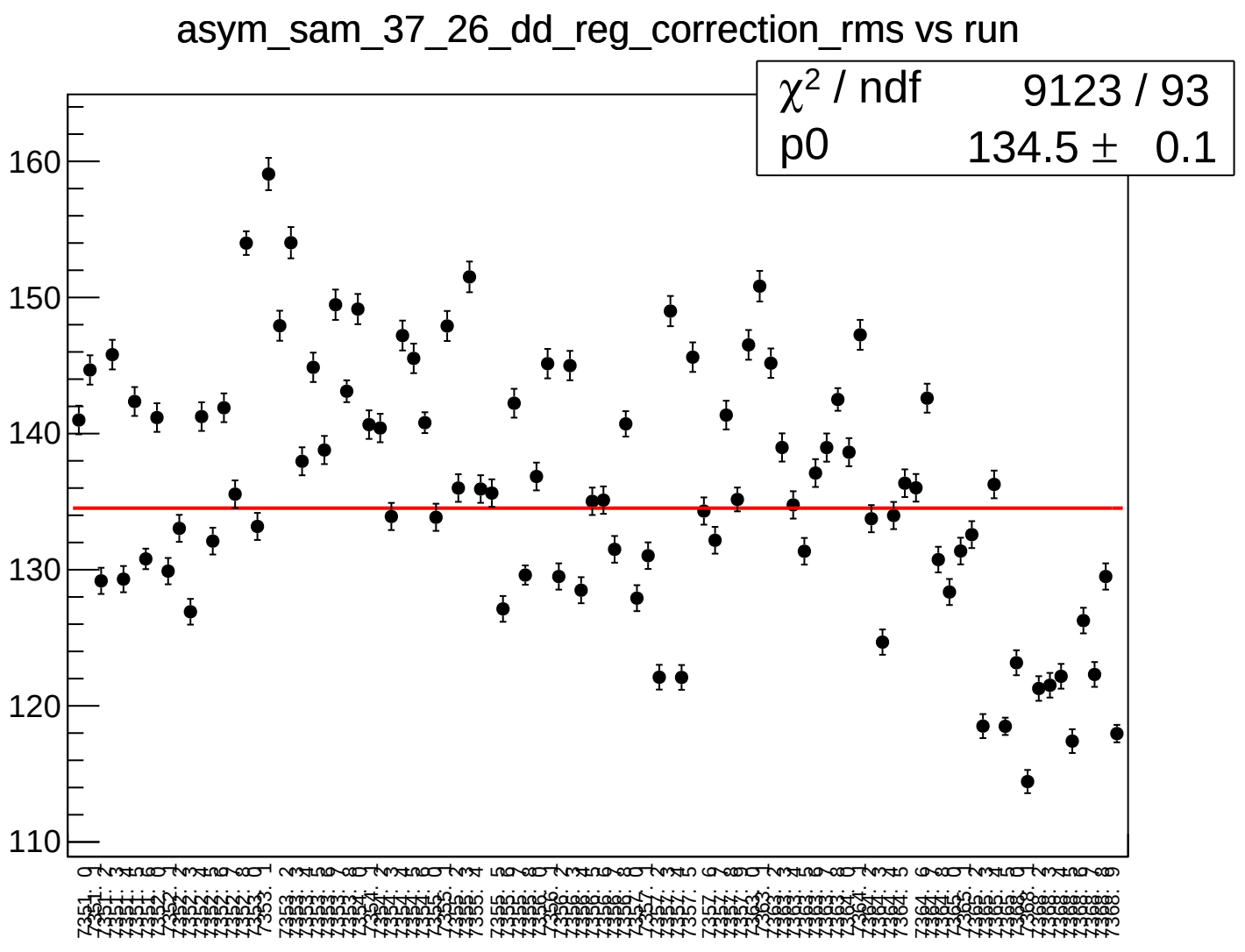

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.758e+05 / 93
p0 4.37e−12 ± 3.638e−15
20
18
16
14
12
10
8
6
4
2

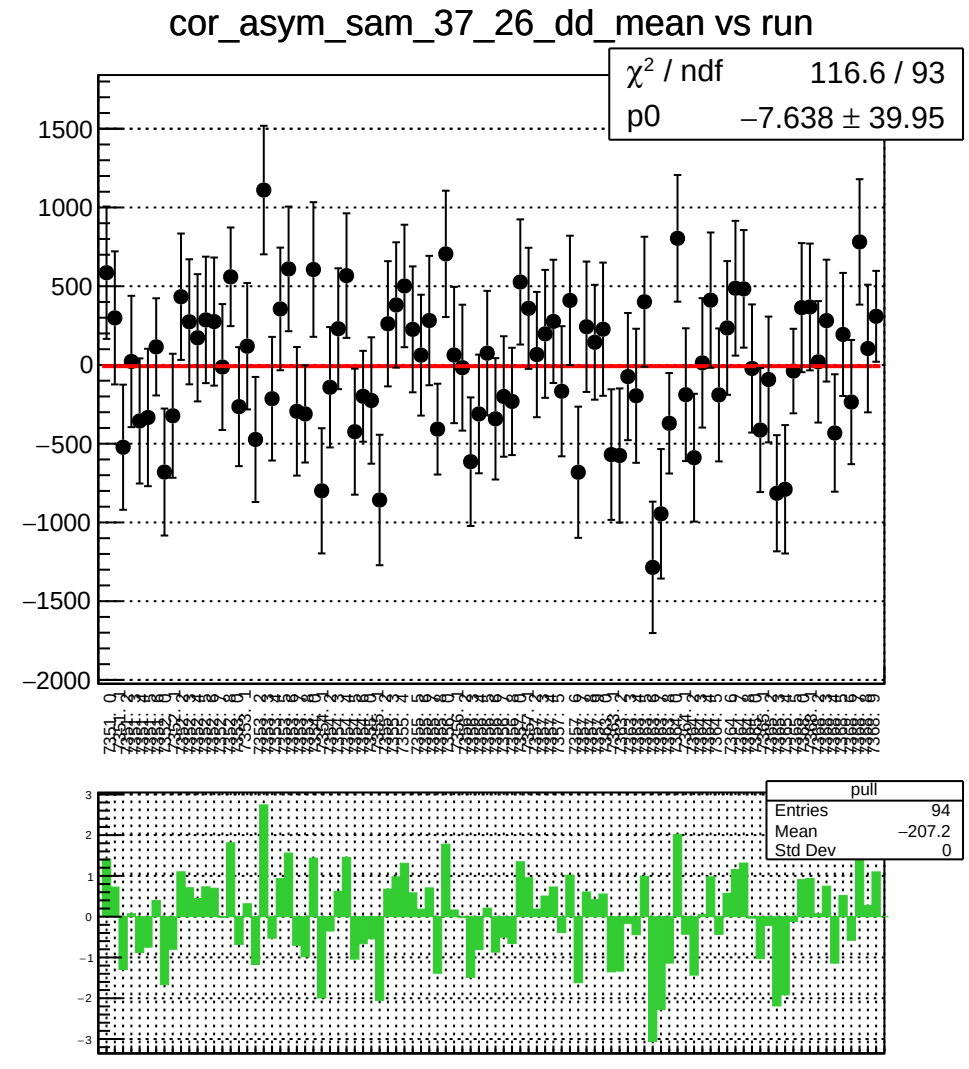

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 116.6 / 93
p0 −7.626 ± 39.95
pull
Entries 94
Mean −207.6
Std Dev 0

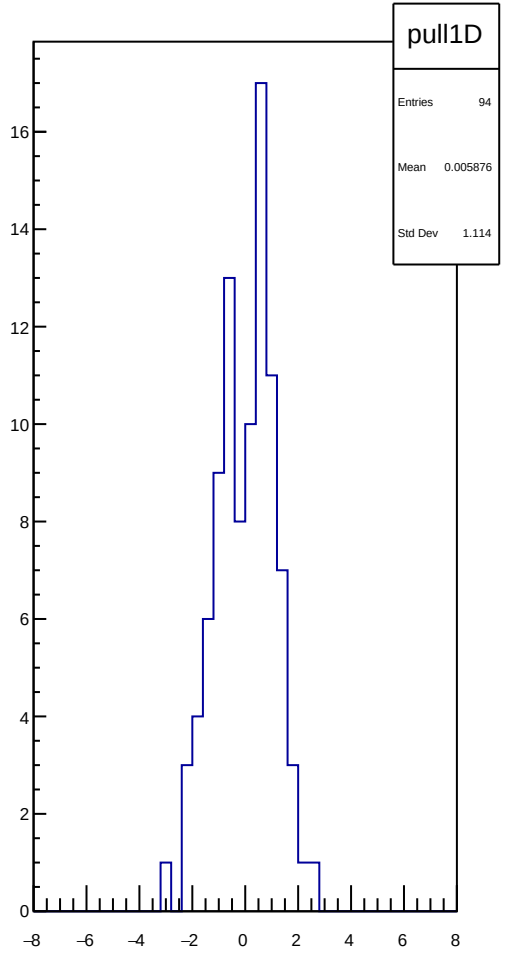

pull1D
Entries 94
Mean 0.005872
Std Dev 1.114

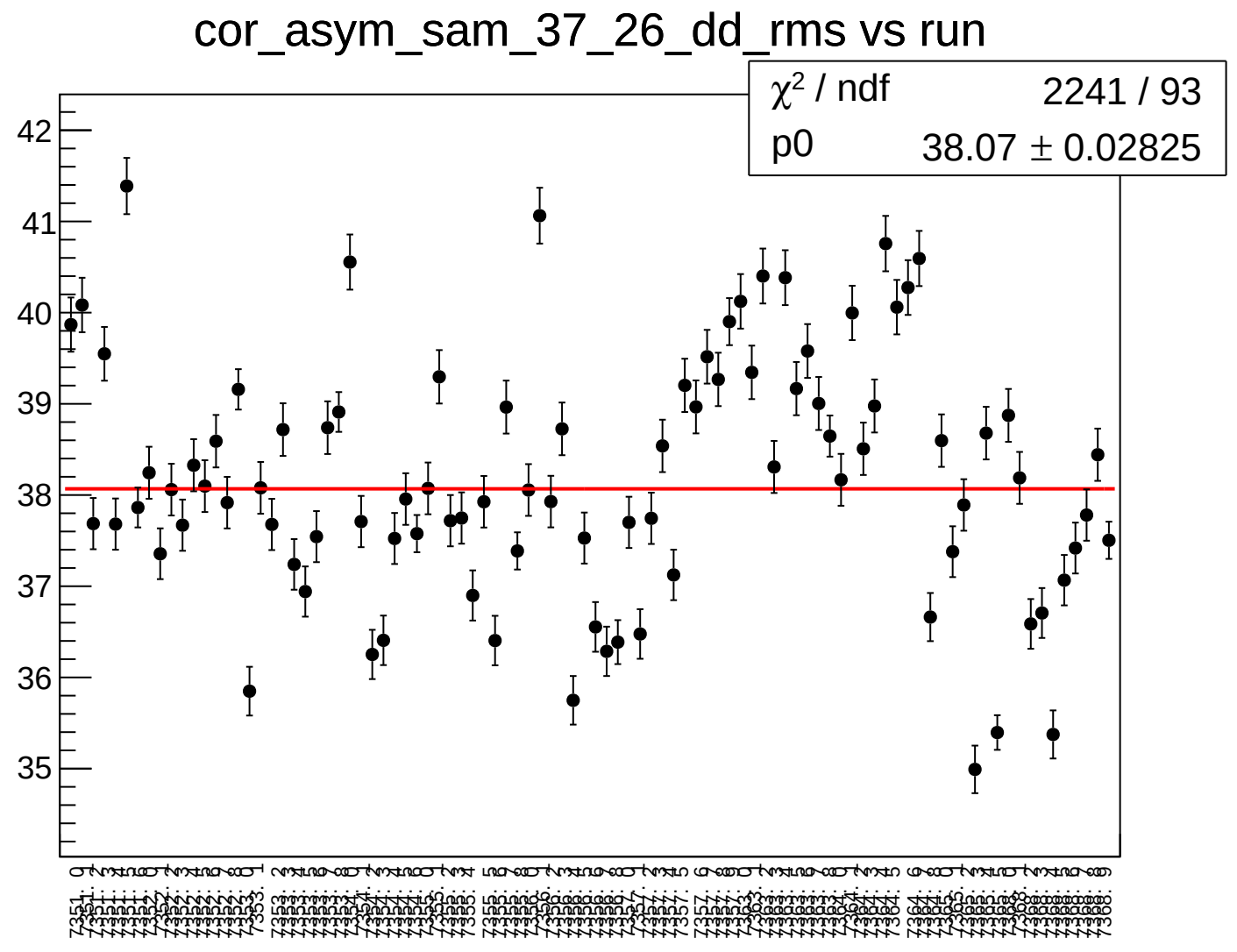

reg_asym_sam_37_26_dd_rms vs run
χ² / ndf 2241 / 93
p0 38.07 ± 0.02825
42
41
40
39
38
37
36
35

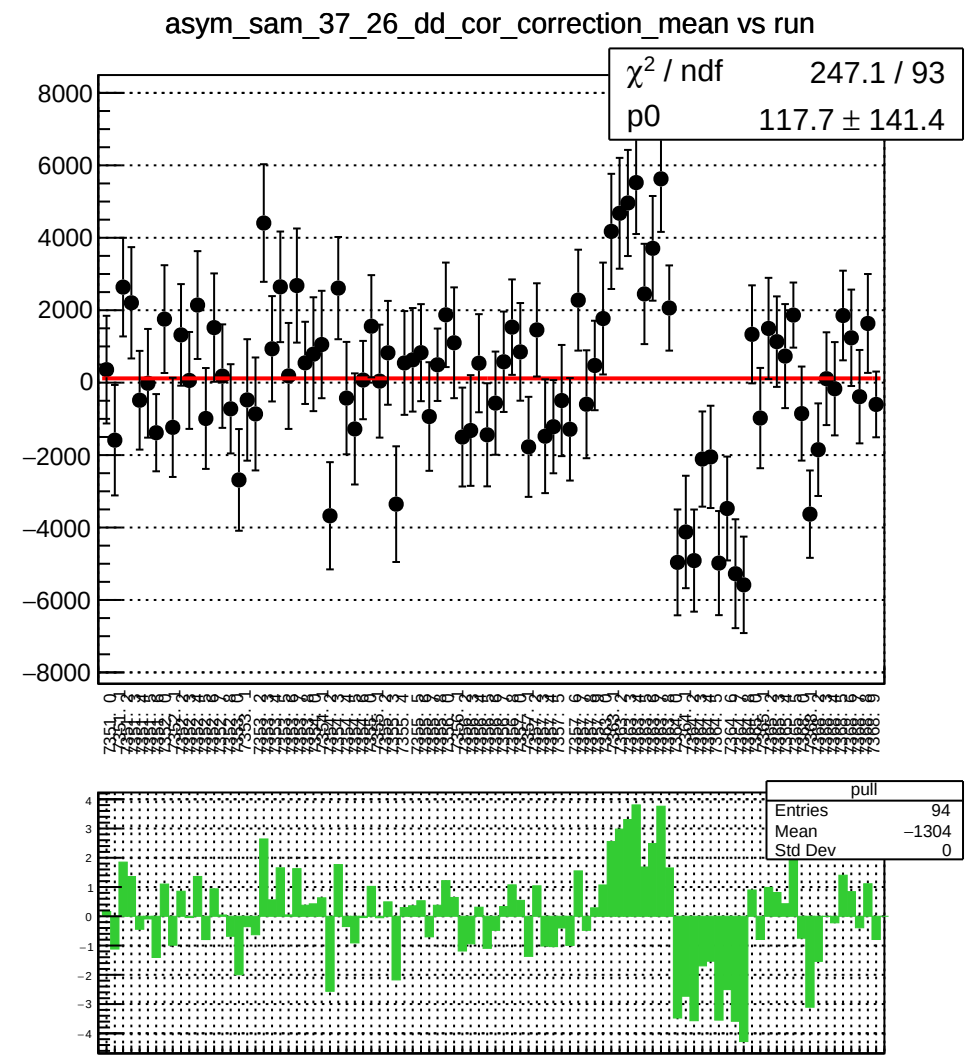

asym_sam_37_26_dd_reg_correction_mean vs run
χ² / ndf 247.1 / 93
p0 117.7 ± 141.4
pull
Entries 94
Mean −1301
Std Dev 0
pull1D
Entries 94
Mean 0.003604
Std Dev 1.621

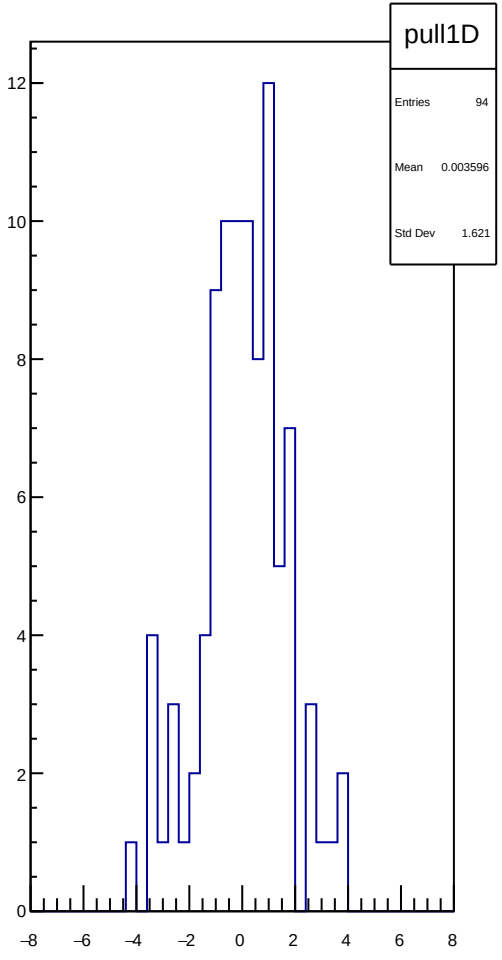

asym_sam_37_26_dd_reg_correction_rms vs run
χ² / ndf 9123 / 93
p0 134.5 ± 0.1
160
150
140
130
120
110

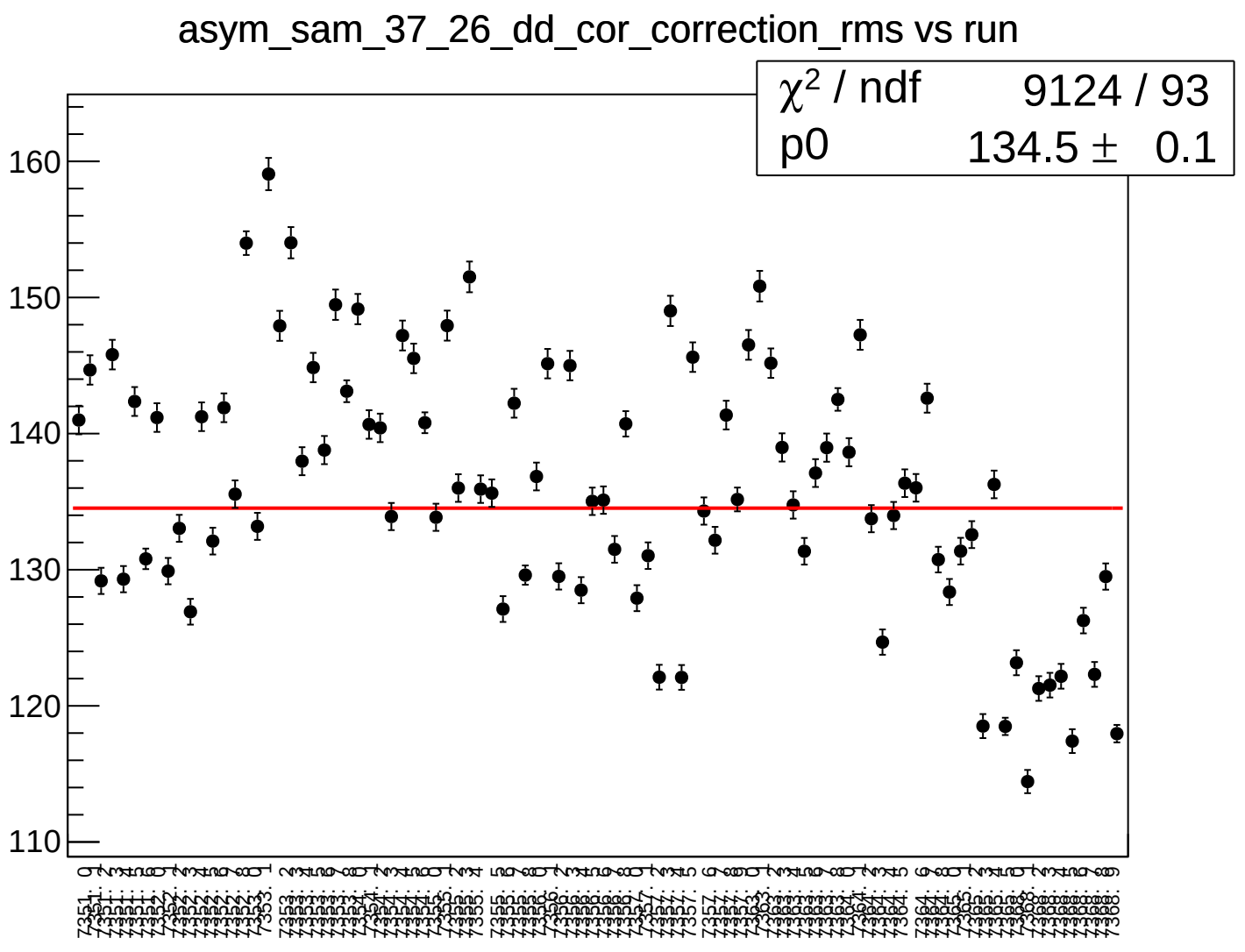

cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 116.6 / 93
p0 −7.638 ± 39.95
pull
Entries 94
Mean −207.2
Std Dev 0

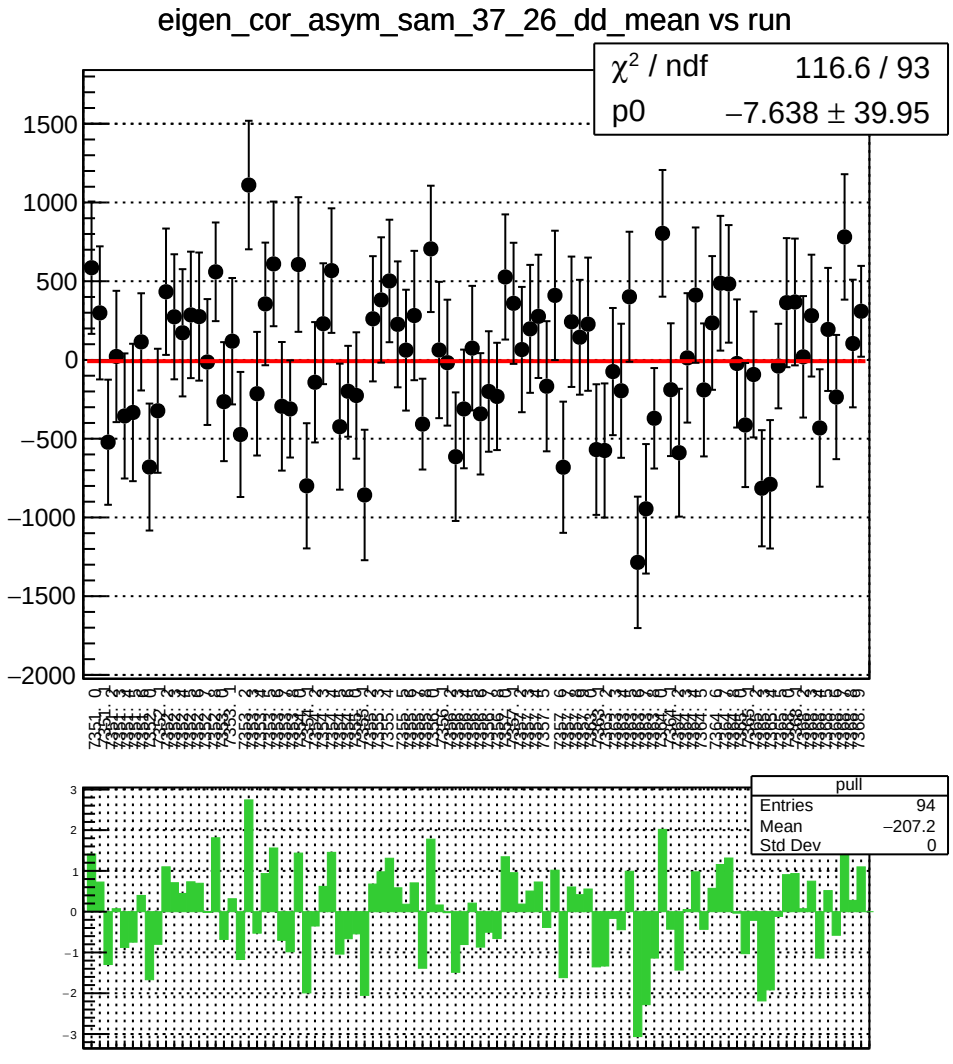

pull1D
Entries 94
Mean 0.005876
Std Dev 1.114

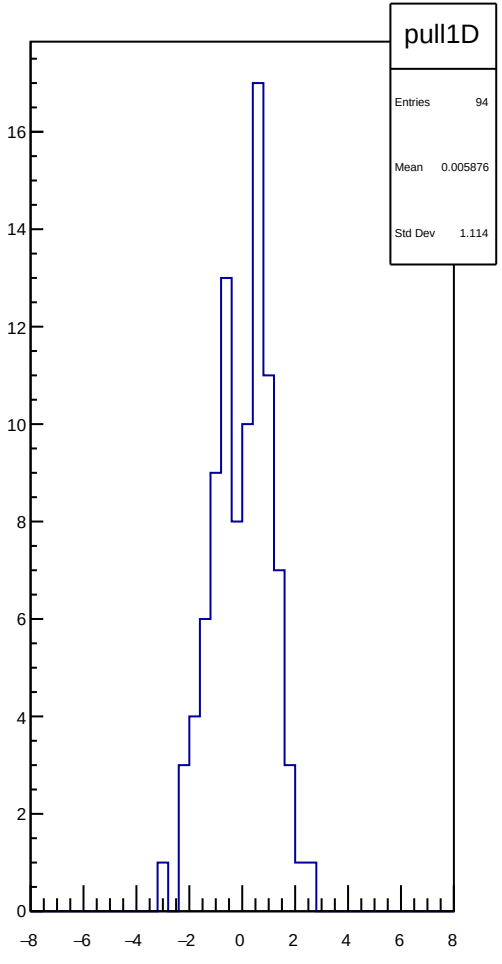

cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 2241 / 93
p0 38.07 ± 0.02825
42
41
40
39
38
37
36
35

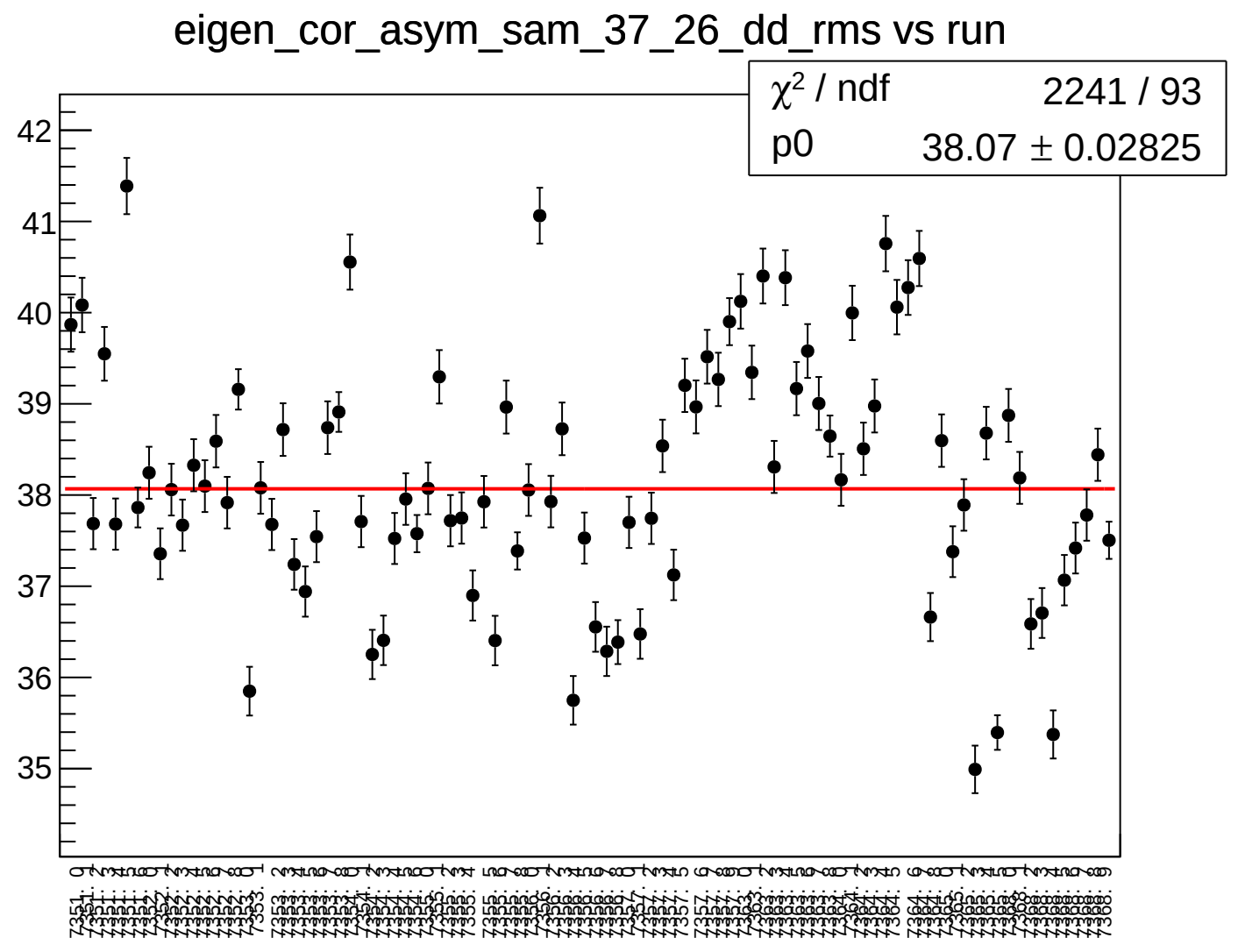

asym_sam_37_26_dd_cor_correction_mean vs run
χ² / ndf 247.1 / 93
p0 117.7 ± 141.4
pull
Entries 94
Mean −1304
Std Dev 0

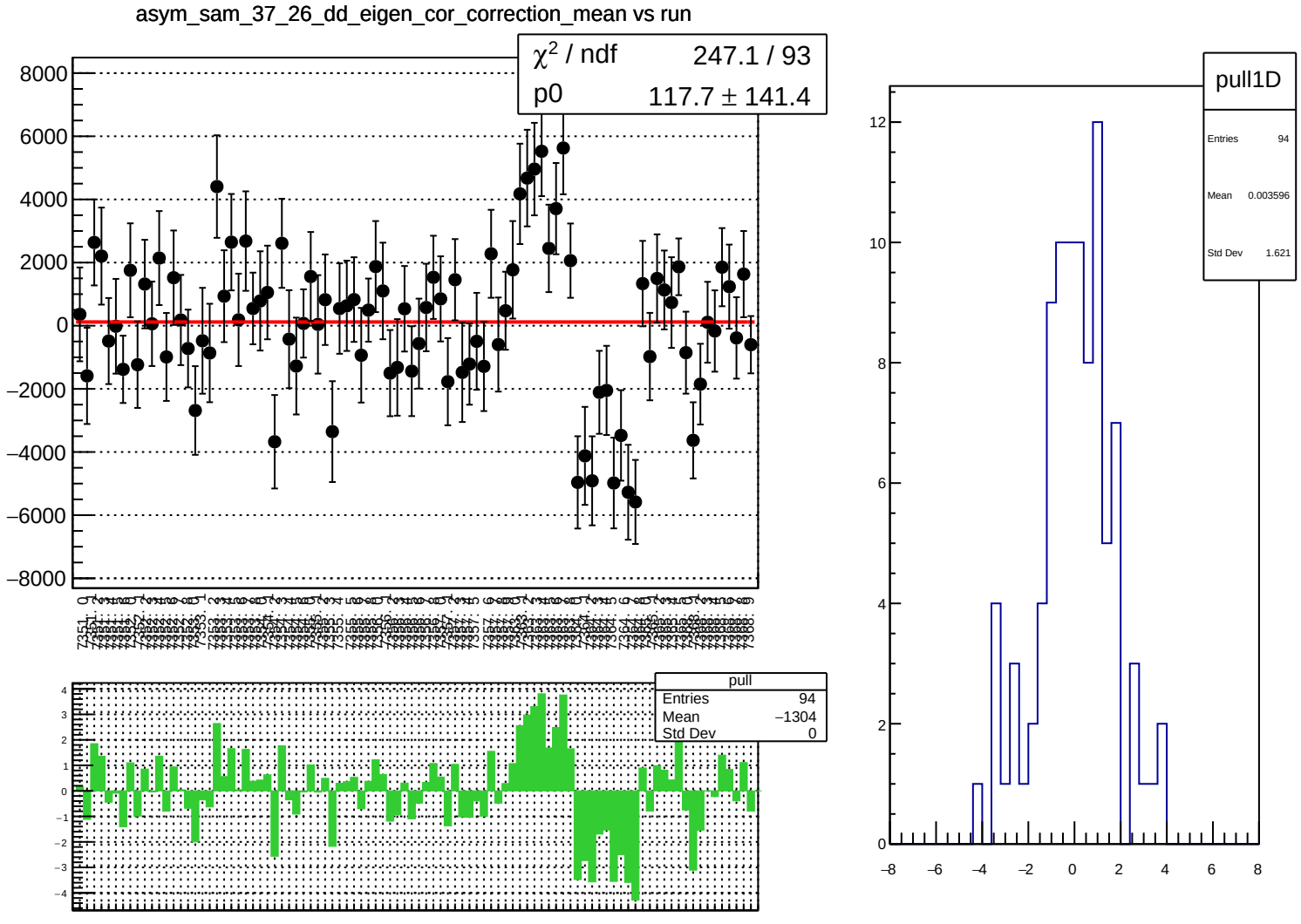

pull1D
Entries 94
Mean 0.003596
Std Dev 1.621

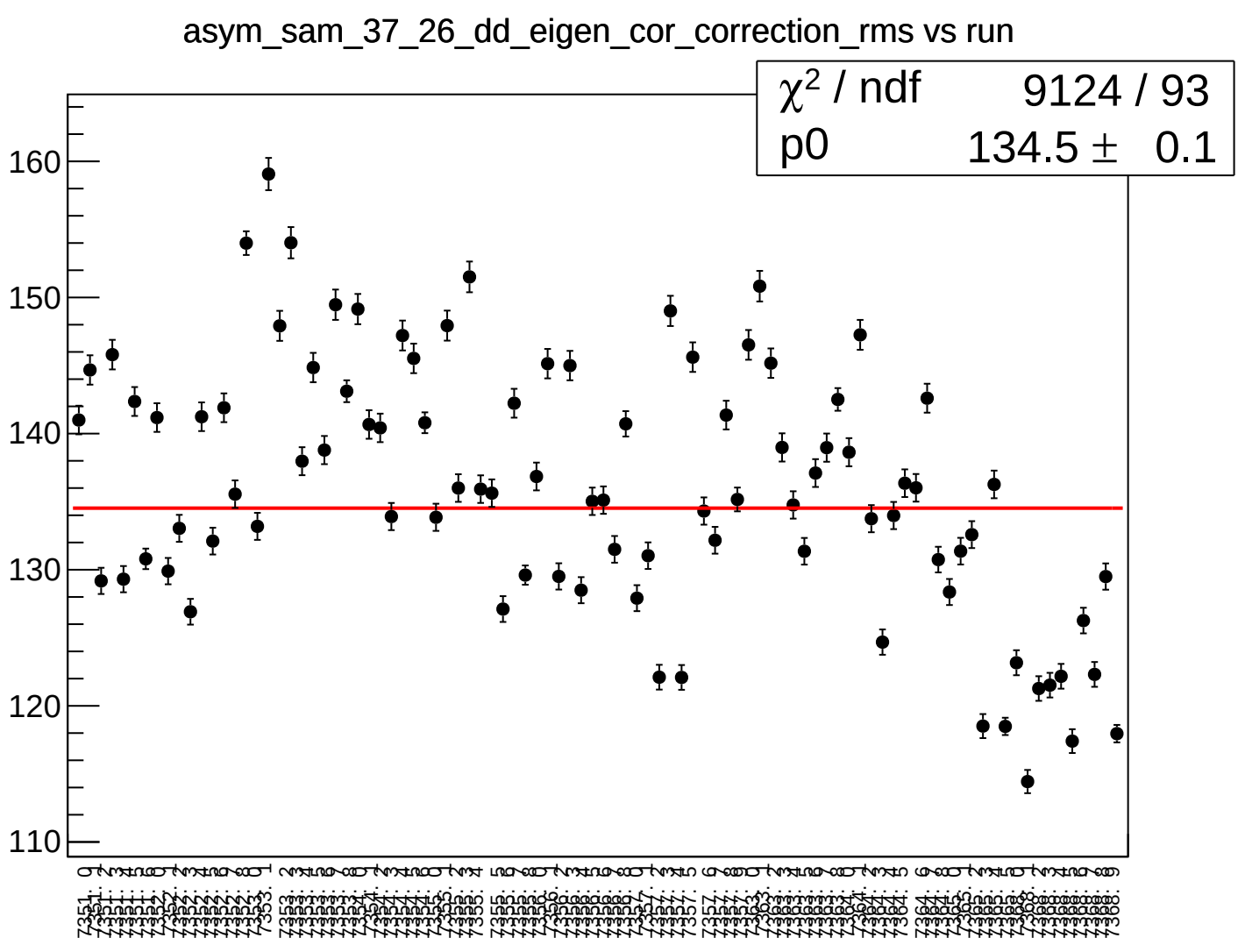

asym_sam_37_26_dd_cor_correction_rms vs run
χ² / ndf 9124 / 93
p0 134.5 ± 0.1
160
150
140
130
120
110

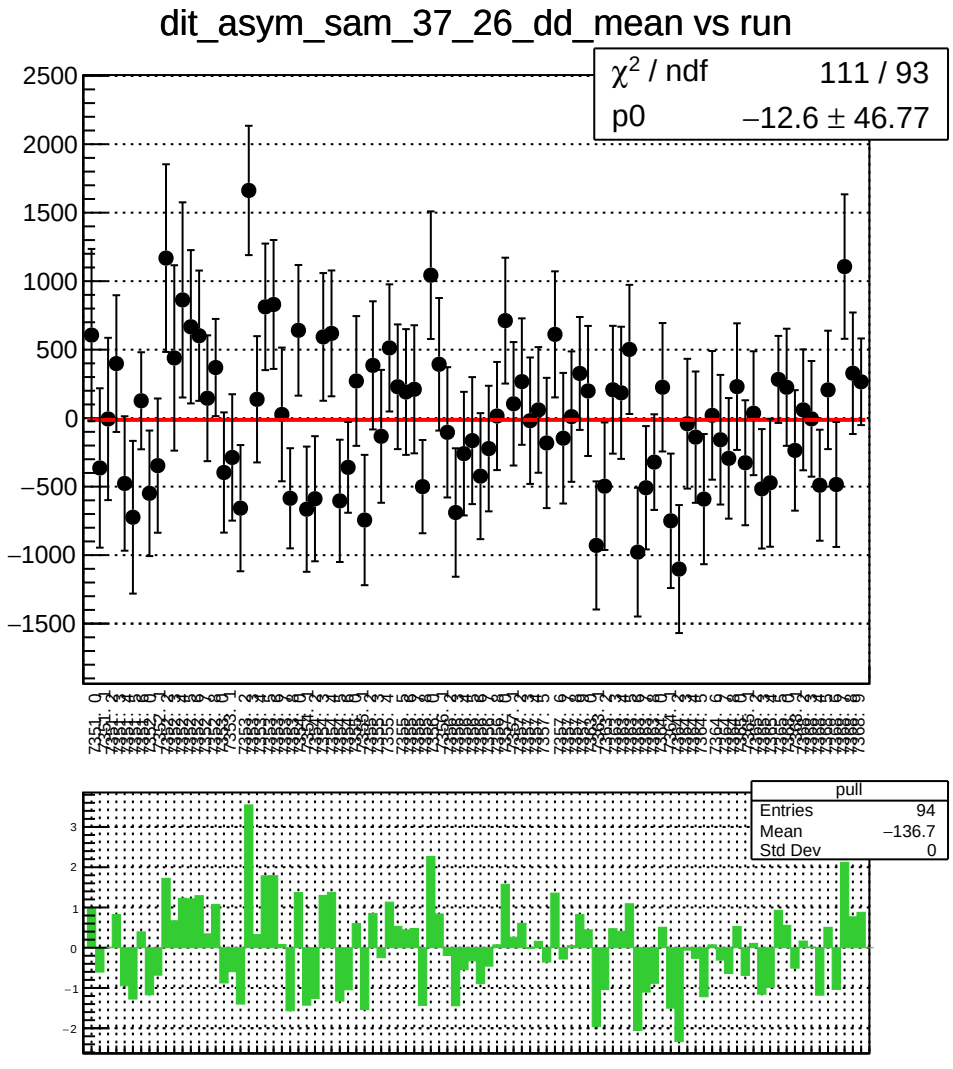

eigen_cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 116.6 / 93
p0 −7.638 ± 39.95
pull
Entries 94
Mean −207.2
Std Dev 0

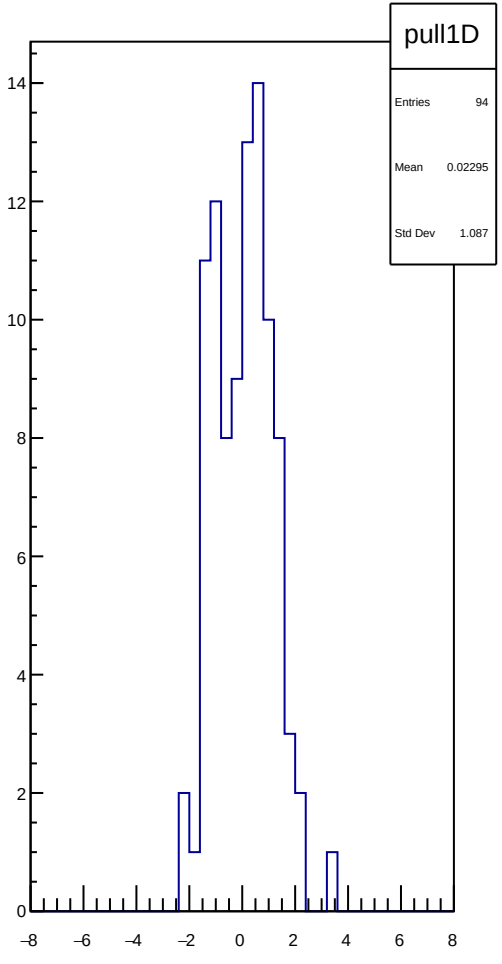

pull1D
Entries 94
Mean 0.005876
Std Dev 1.114

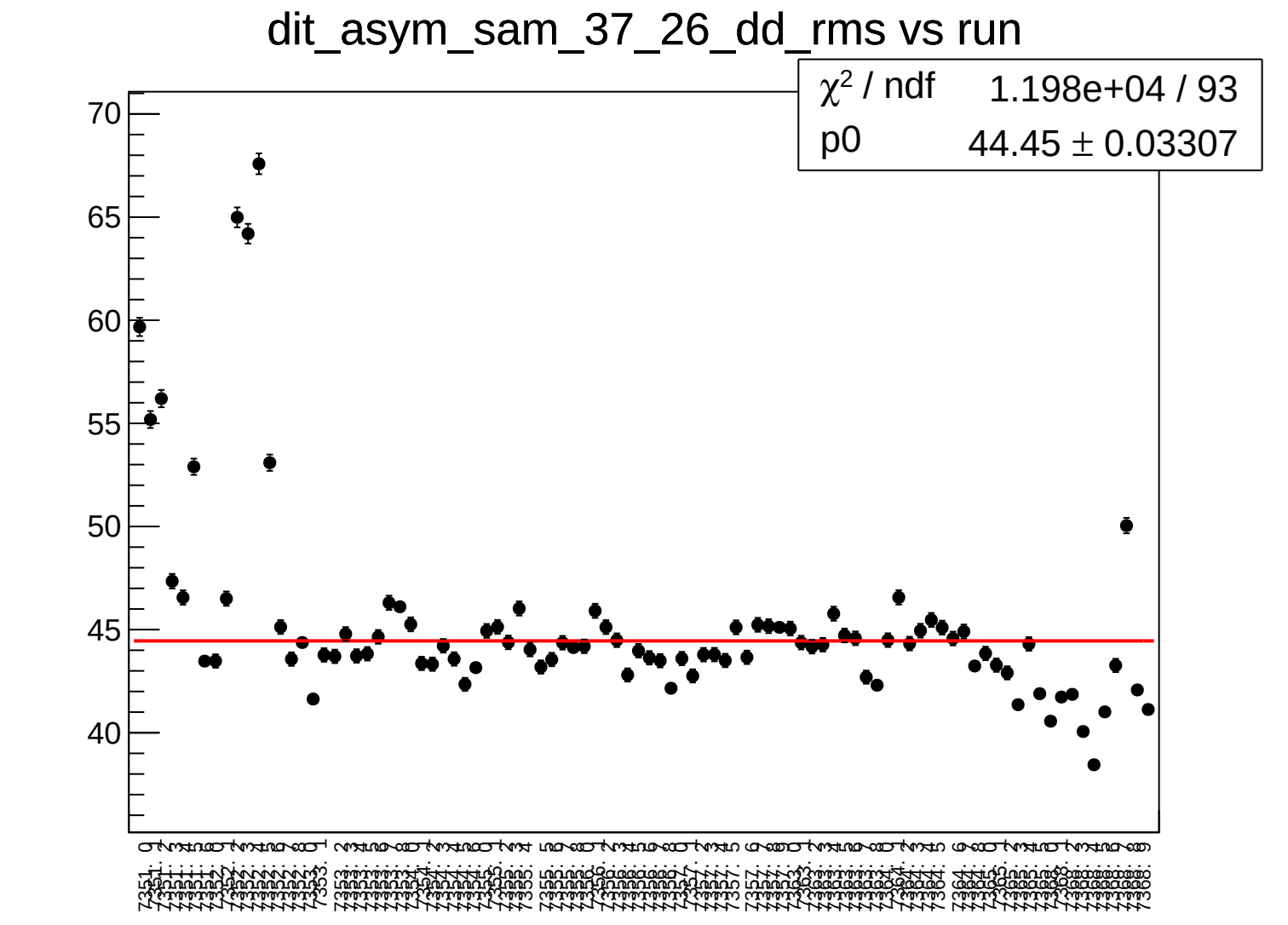

eigen_cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 2241 / 93
p0 38.07 ± 0.02825
42
41
40
39
38
37
36
35

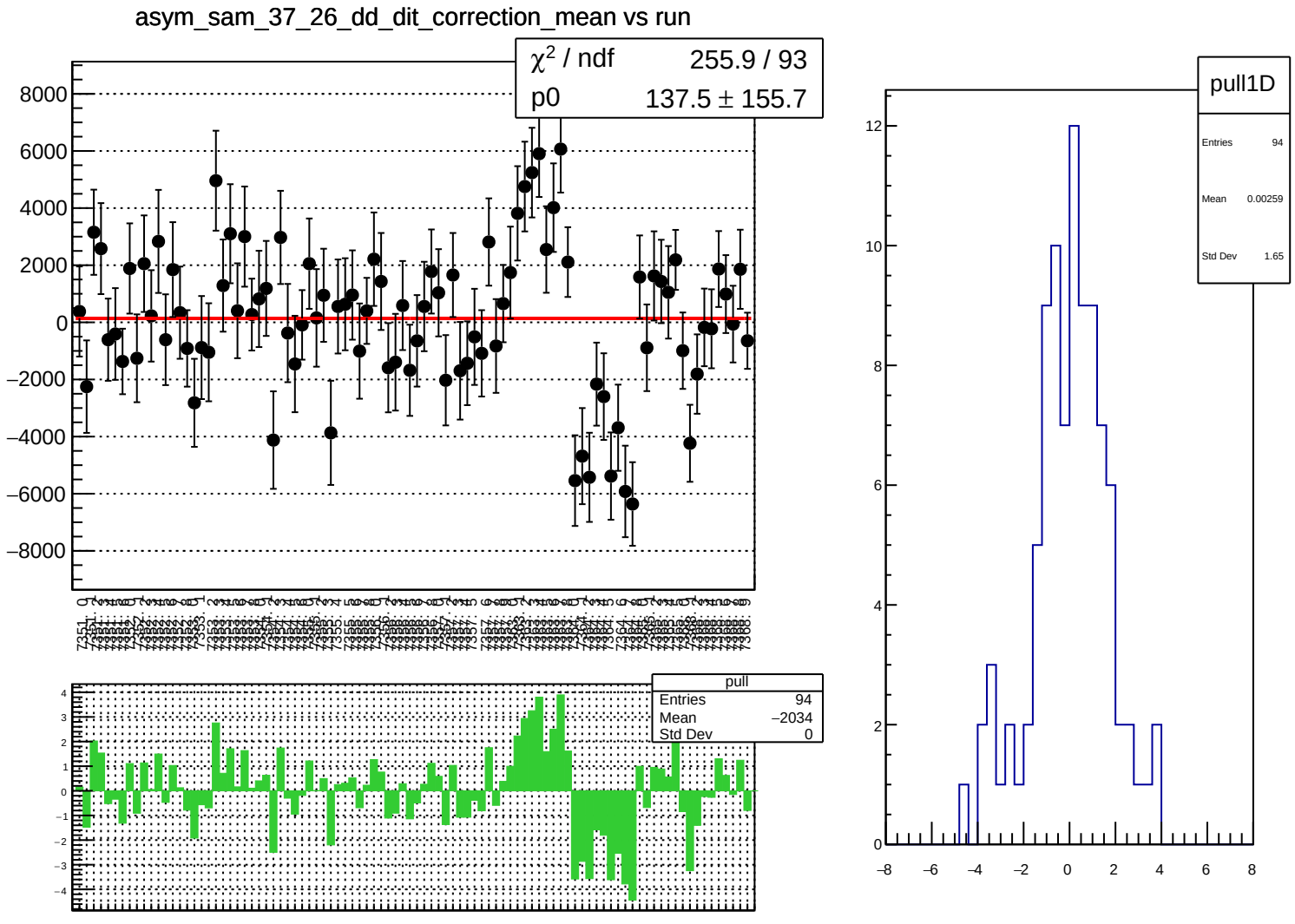

asym_sam_37_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 247.1 / 93
p0 117.7 ± 141.4
pull
Entries 94
Mean −1304
Std Dev 0
pull1D
Entries 94
Mean 0.003596
Std Dev 1.621

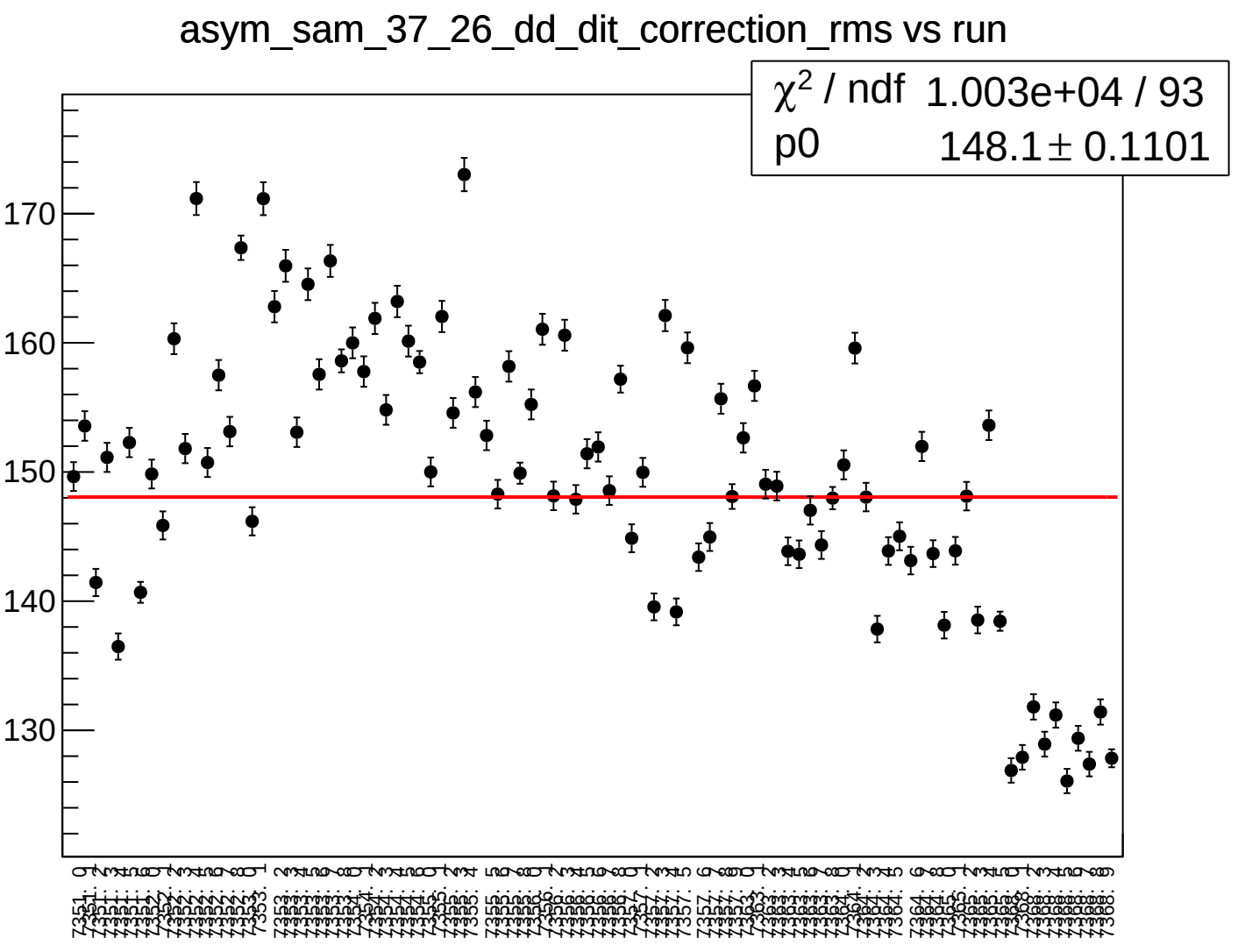

asym_sam_37_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 9124 / 93
p0 134.5 ± 0.1
160
150
140
130
120
110

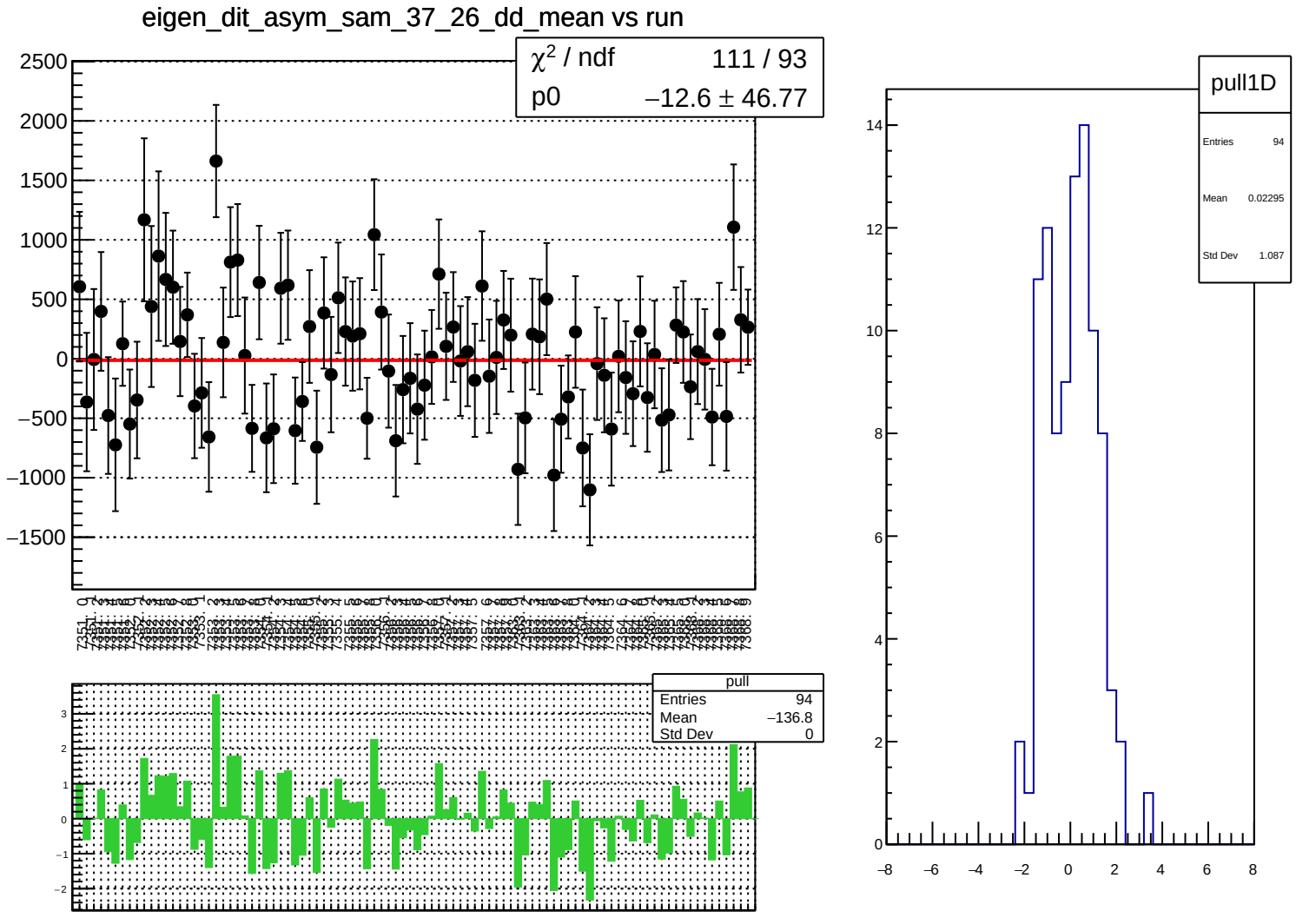

dit_asym_sam_37_26_dd_mean vs run
χ^2 / ndf 111 / 93
p0 −12.6 ± 46.77
pull
Entries 94
Mean −136.7
Std Dev 0

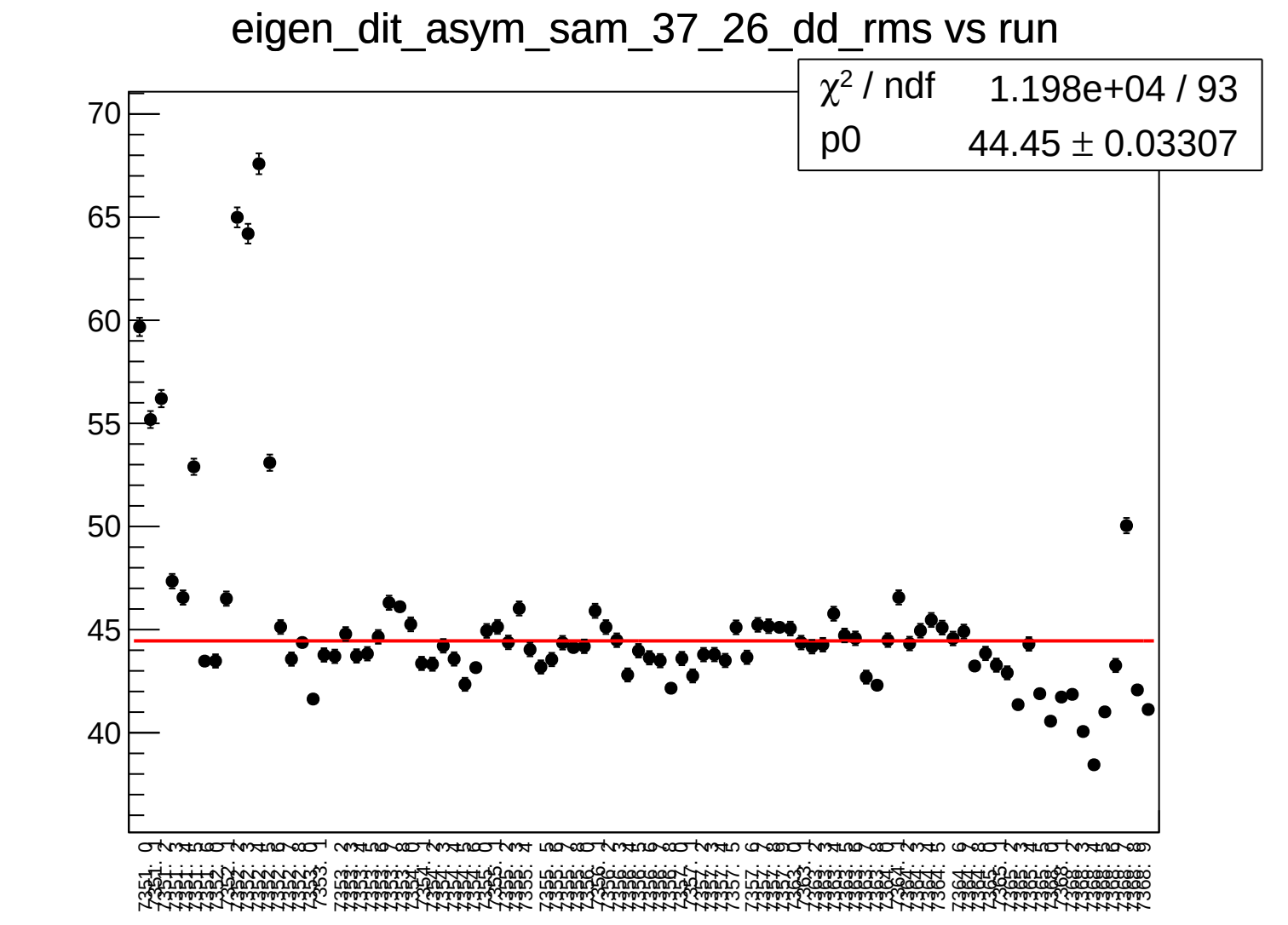

pull1D
Entries 94
Mean 0.02295
Std Dev 1.087

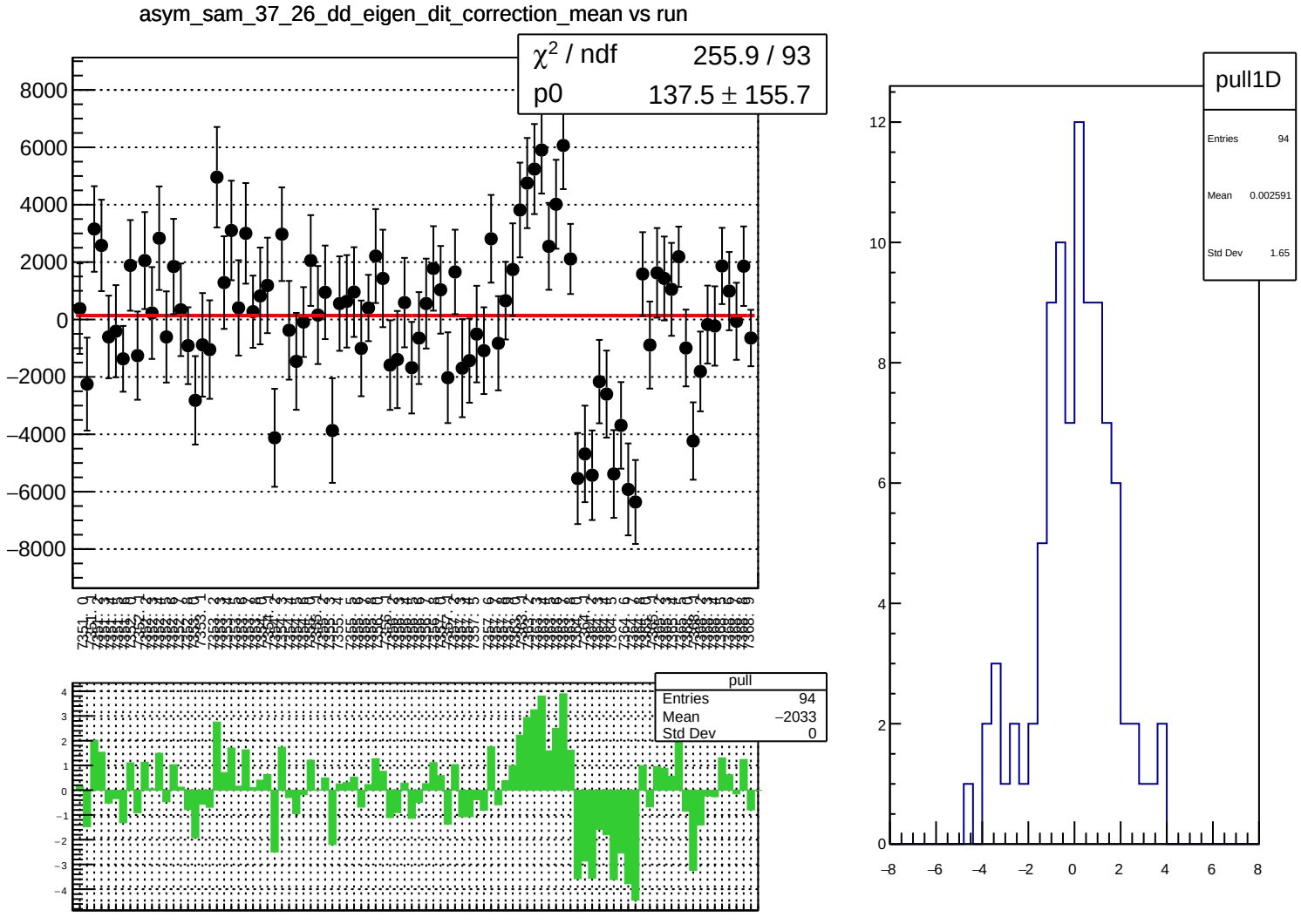

dit_asym_sam_37_26_dd_rms vs run
χ^2 / ndf 1.198e+04 / 93
p0 44.45 ± 0.03307
70
65
60
55
50
45
40

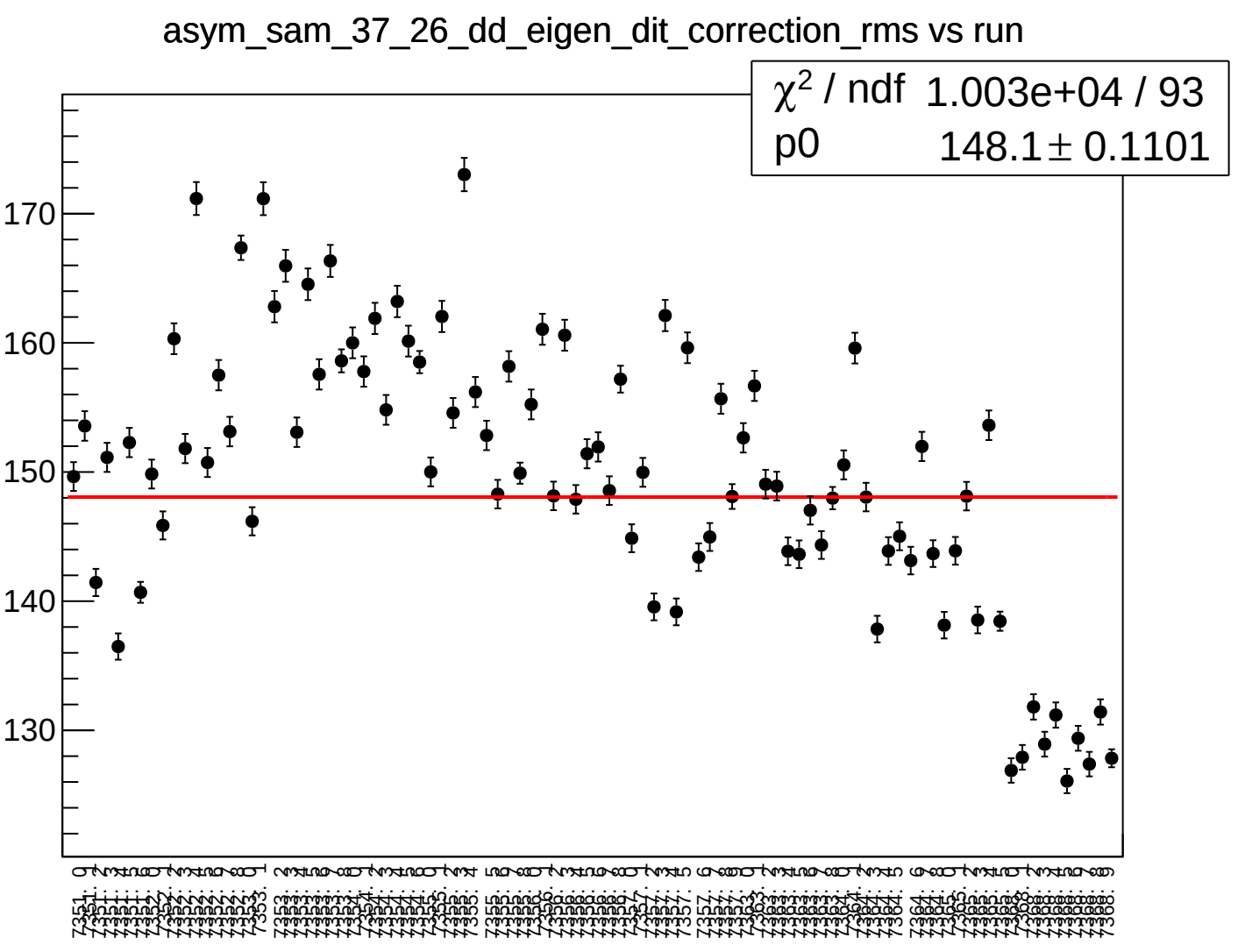

asym_sam_37_26_dd_dit_correction_mean vs run
χ² / ndf 255.9 / 93
p0 137.5 ± 155.7
pull
Entries 94
Mean −2034
Std Dev 0
pull1D
Entries 94
Mean 0.00259
Std Dev 1.65

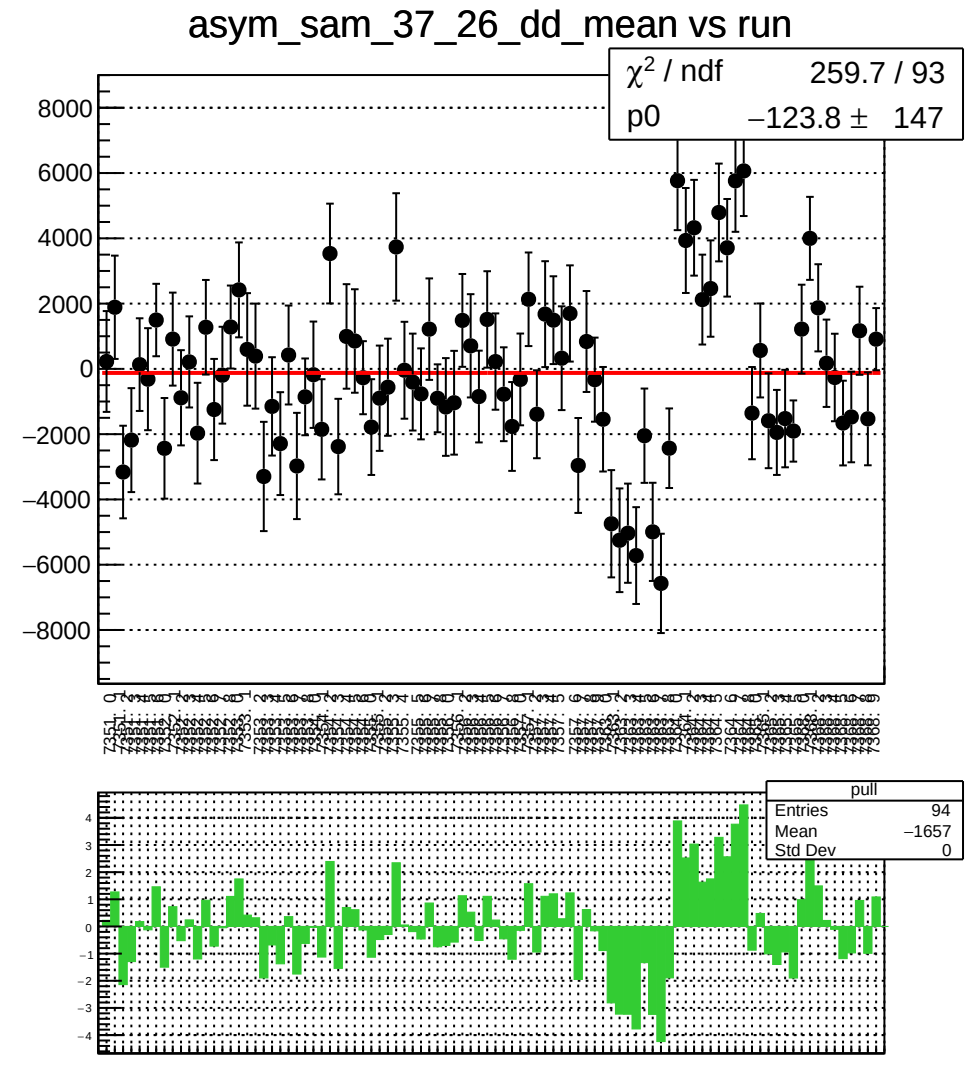

asym_sam_37_26_dd_dit_correction_rms vs run
χ² / ndf 1.003e+04 / 93
p0 148.1 ± 0.1101
170
160
150
140
130

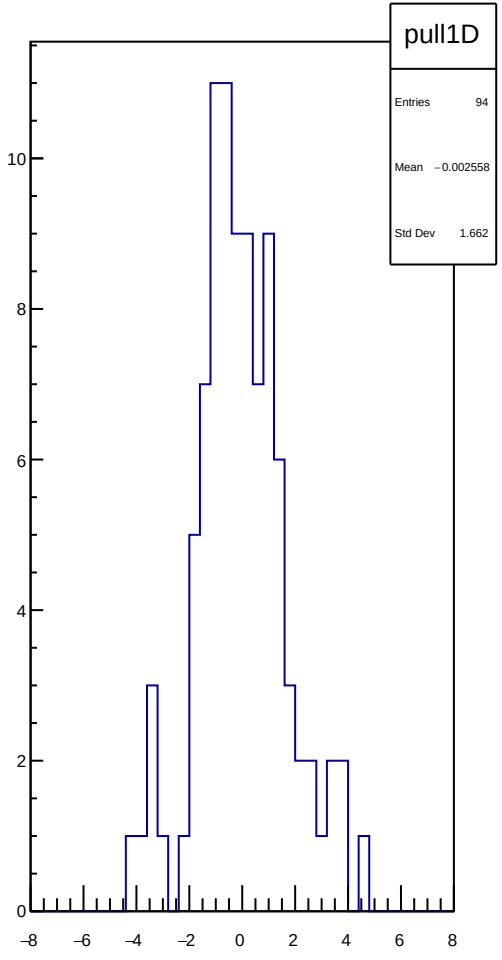

eigen_dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 111 / 93
p0 −12.6 ± 46.77
pull
Entries 94
Mean −136.8
Std Dev 0
pull1D
Entries 94
Mean 0.02295
Std Dev 1.087

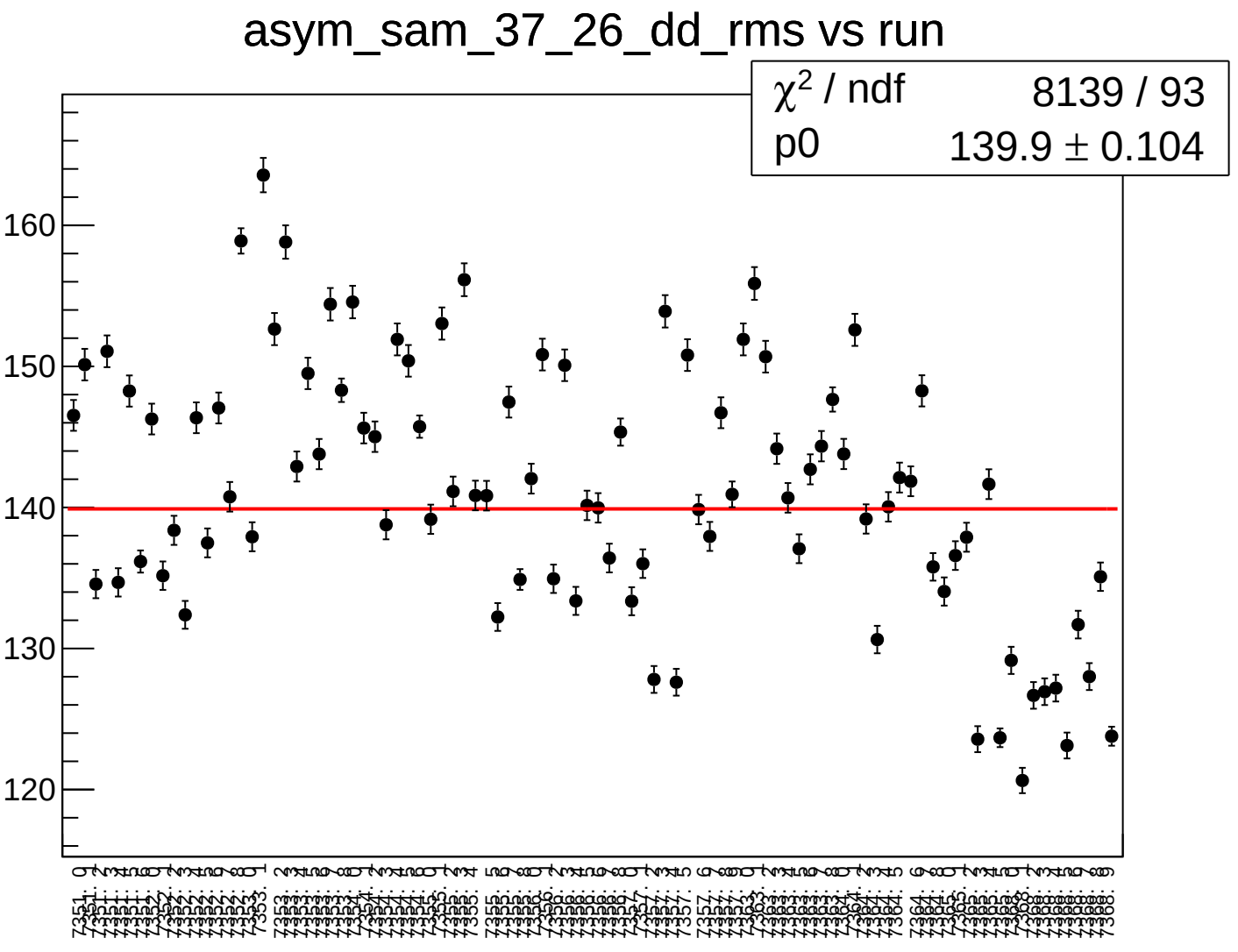

eigen_dit_asym_sam_37_26_dd_rms vs run
χ^2 / ndf 1.198e+04 / 93
p0 44.45 ± 0.03307
70
65
60
55
50
45
40

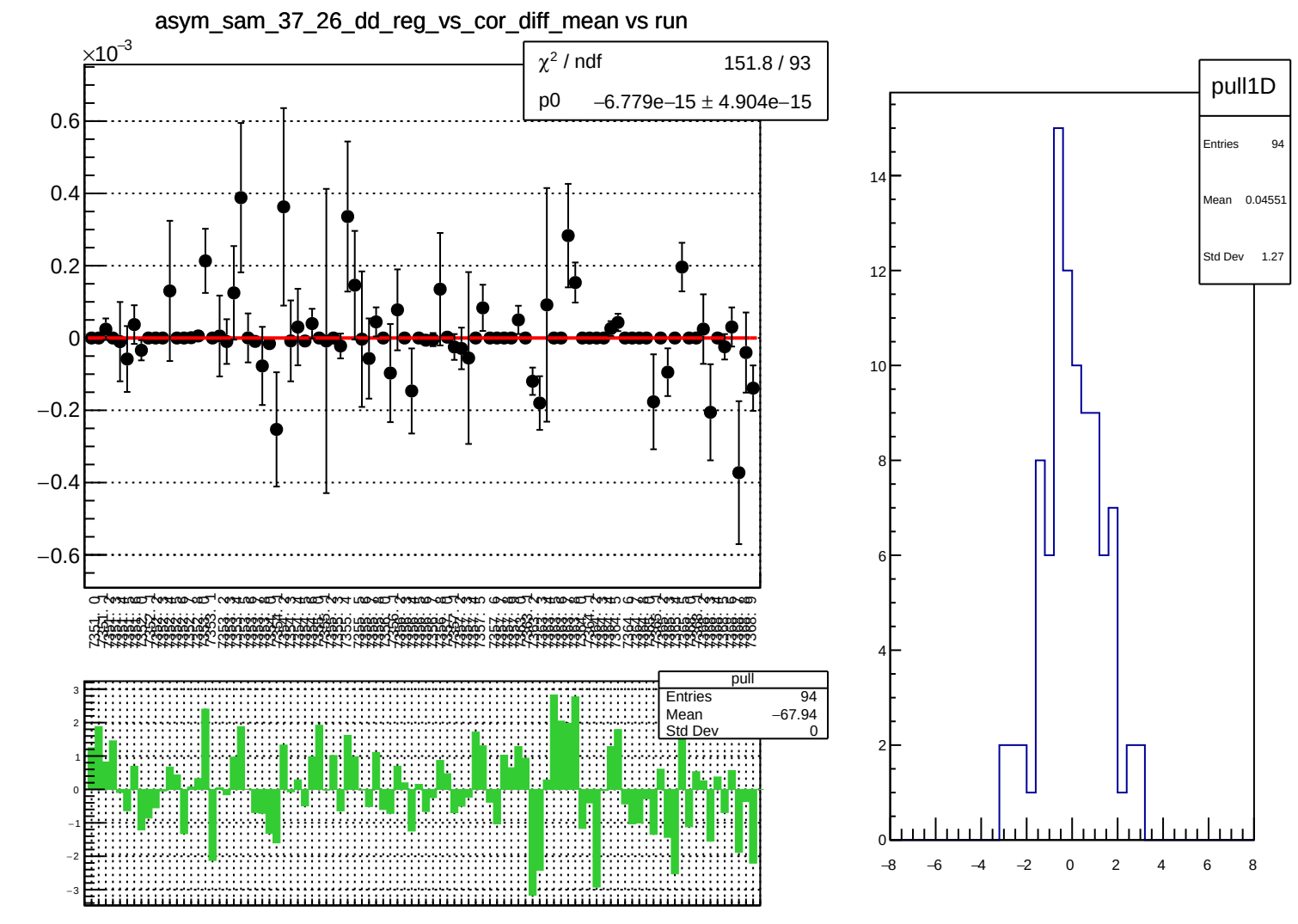

asym_sam_37_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 255.9 / 93
p0 137.5 ± 155.7
pull
Entries 94
Mean −2033
Std Dev 0
pull1D
Entries 94
Mean 0.002591
Std Dev 1.65

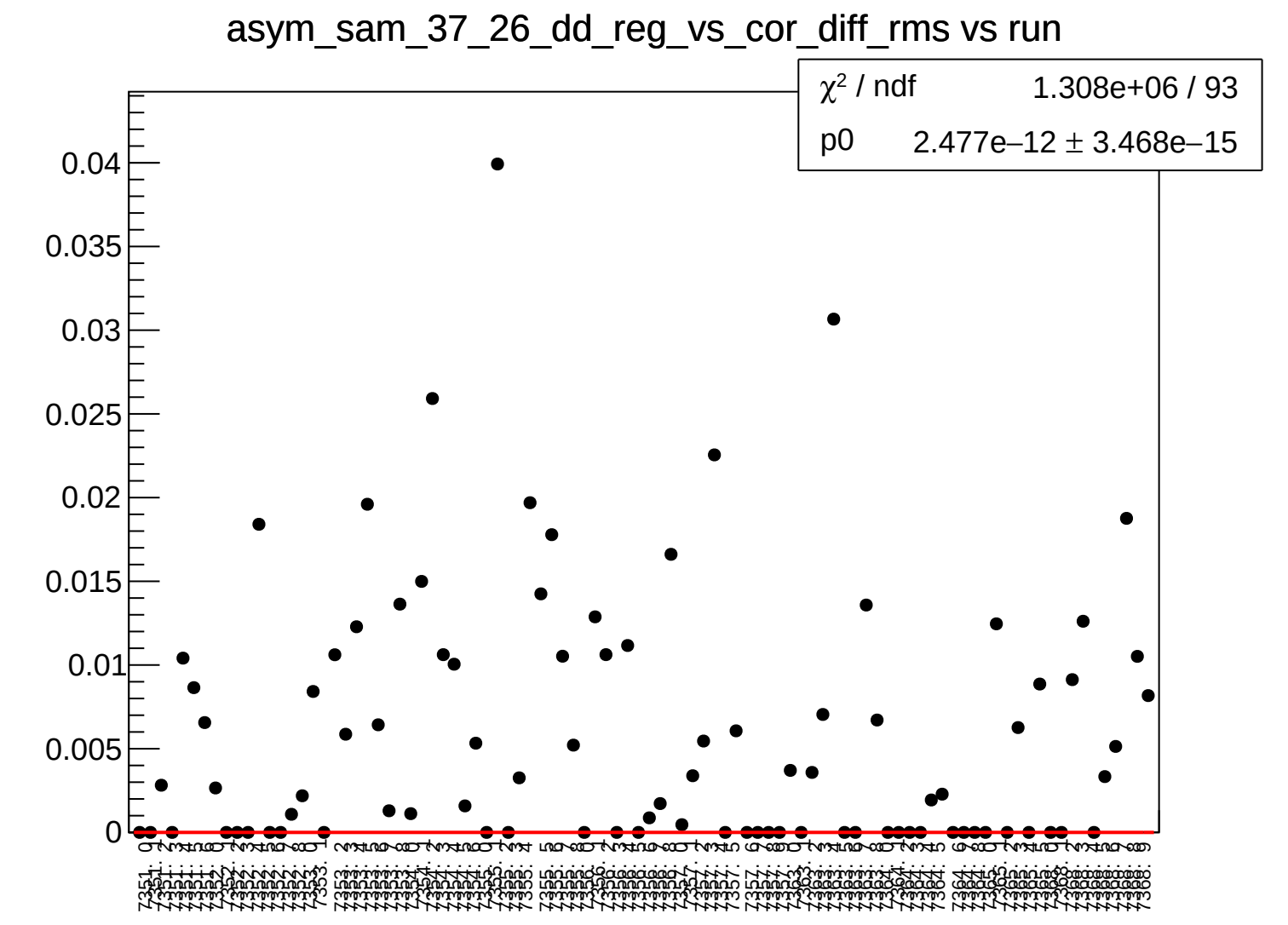

asym_sam_37_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.003e+04 / 93
p0 148.1 ± 0.1101
170
160
150
140
130

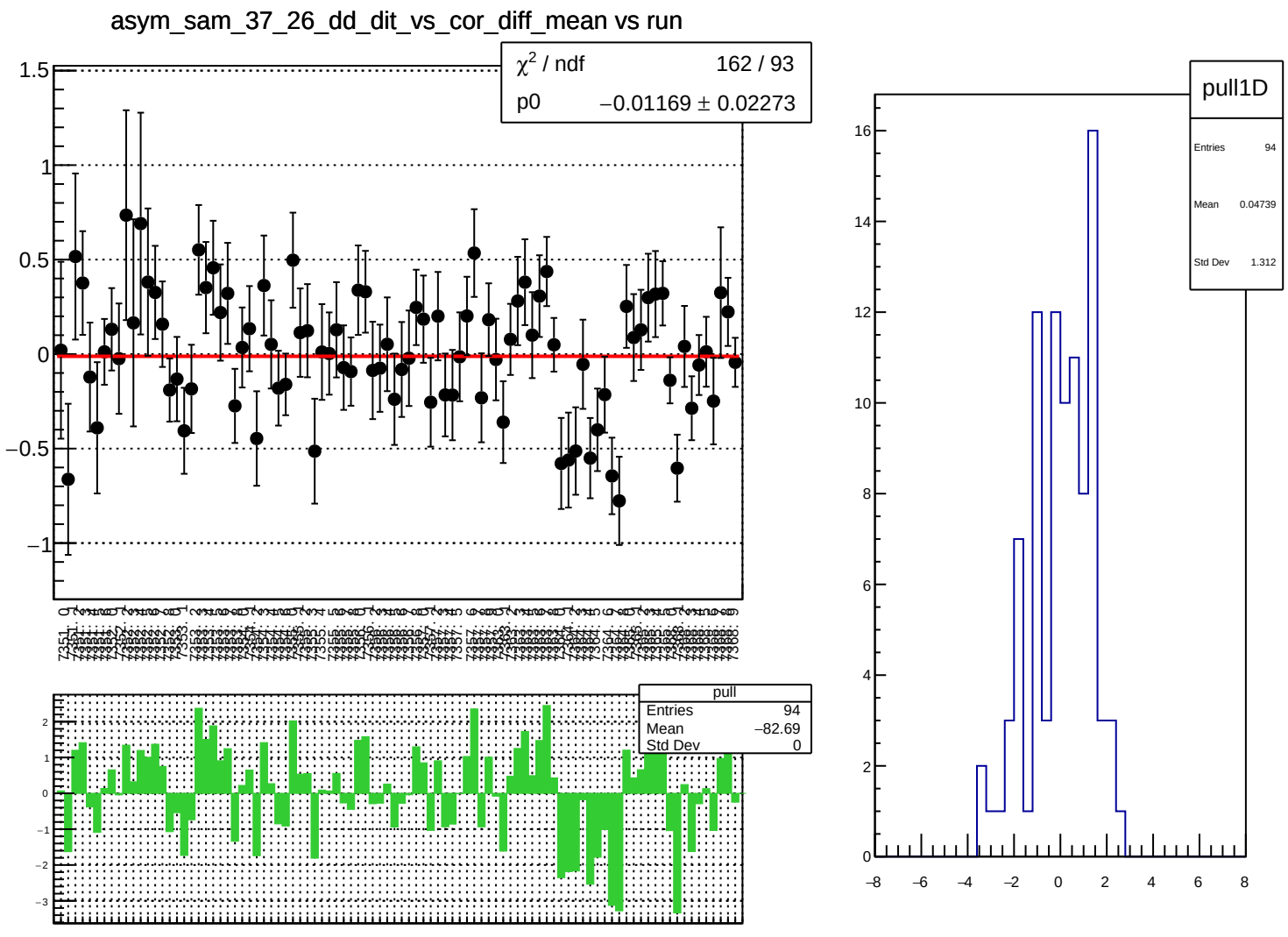

asym_sam_37_26_dd_mean vs run
χ² / ndf 259.7 / 93
p0 −123.8 ± 147
pull
Entries 94
Mean −1657
Std Dev 0

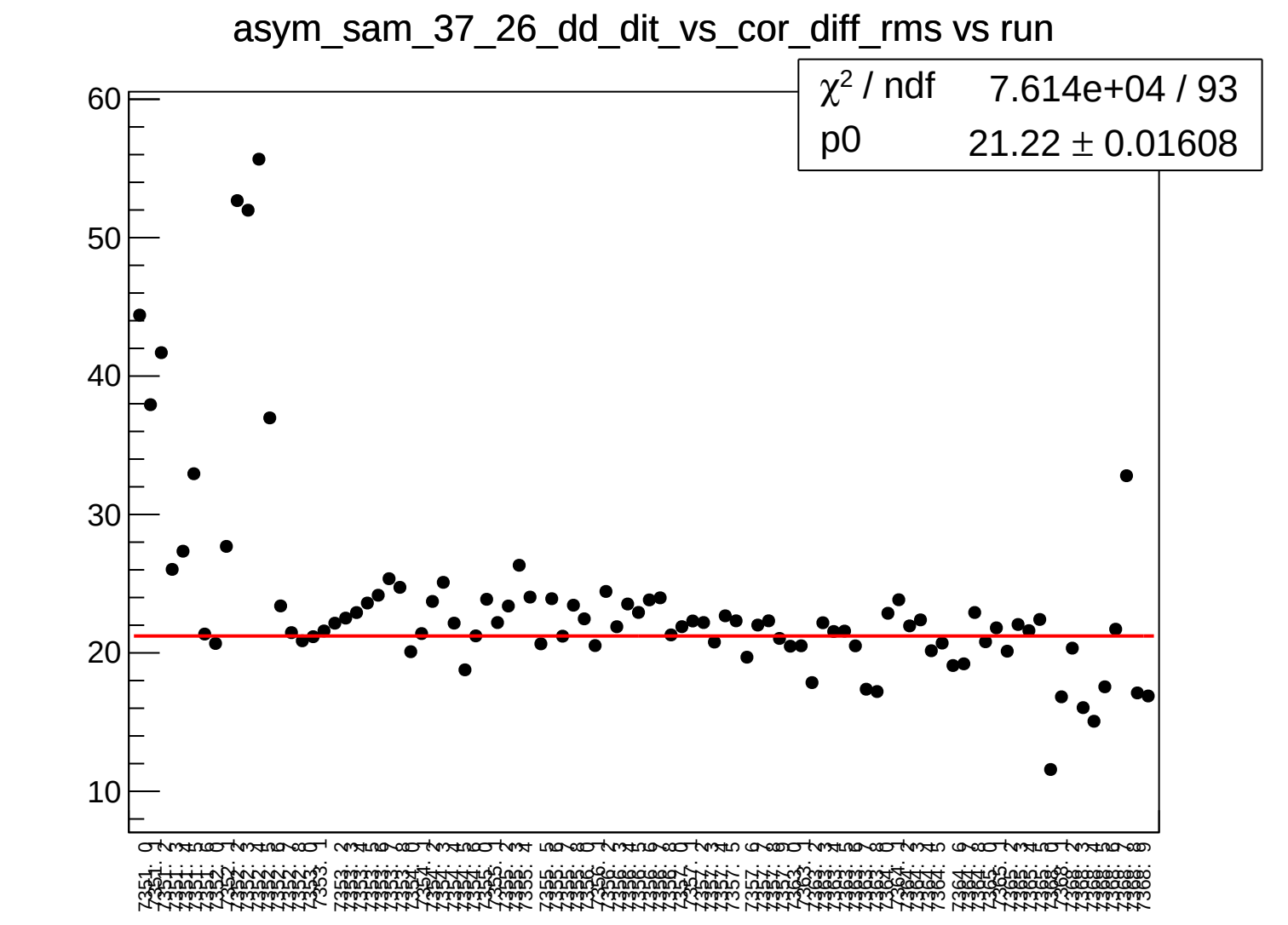

pull1D
Entries 94
Mean −0.002558
Std Dev 1.662

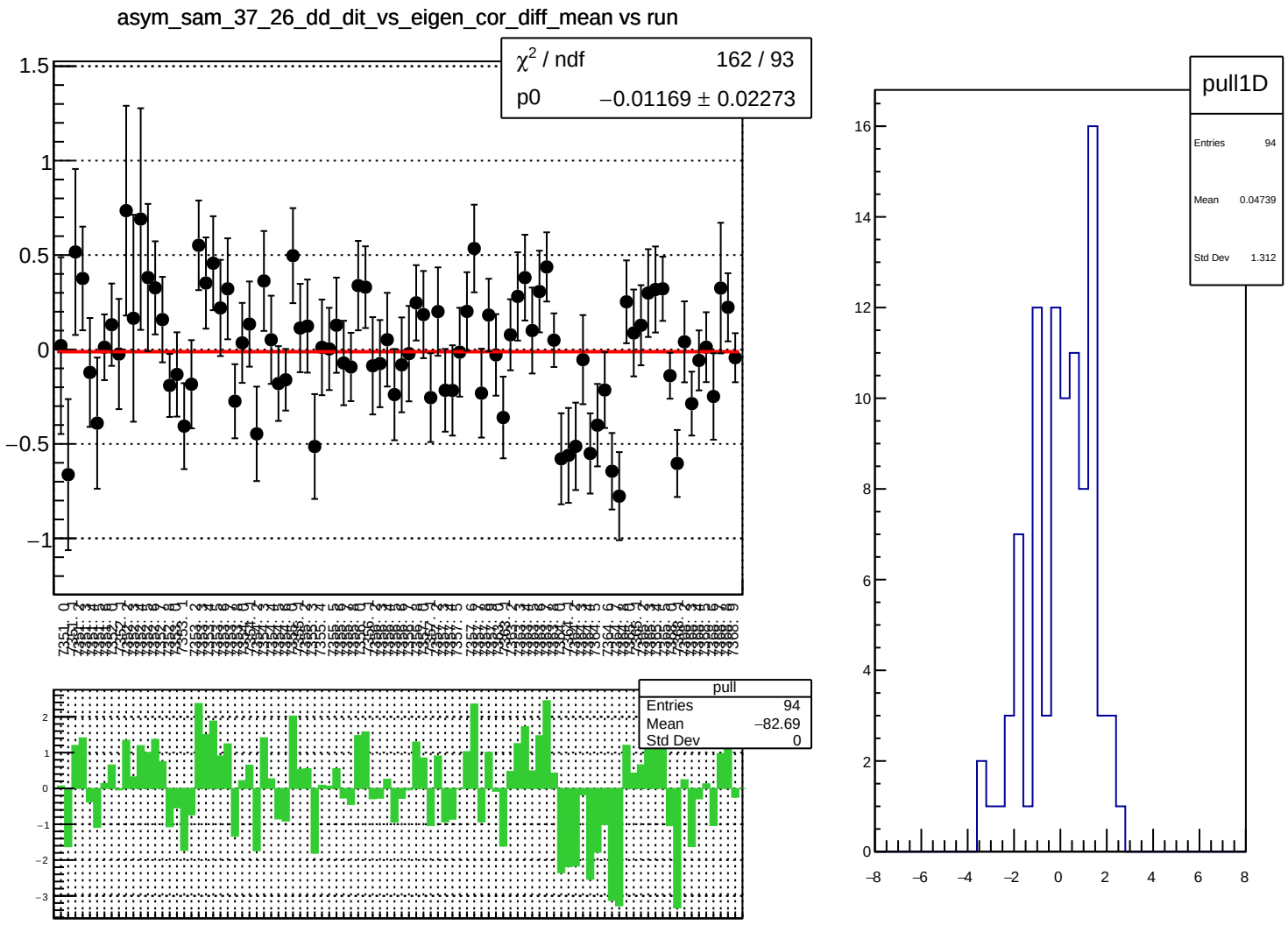

asym_sam_37_26_dd_rms vs run
χ² / ndf 8139 / 93
p0 139.9 ± 0.104
160
150
140
130
120

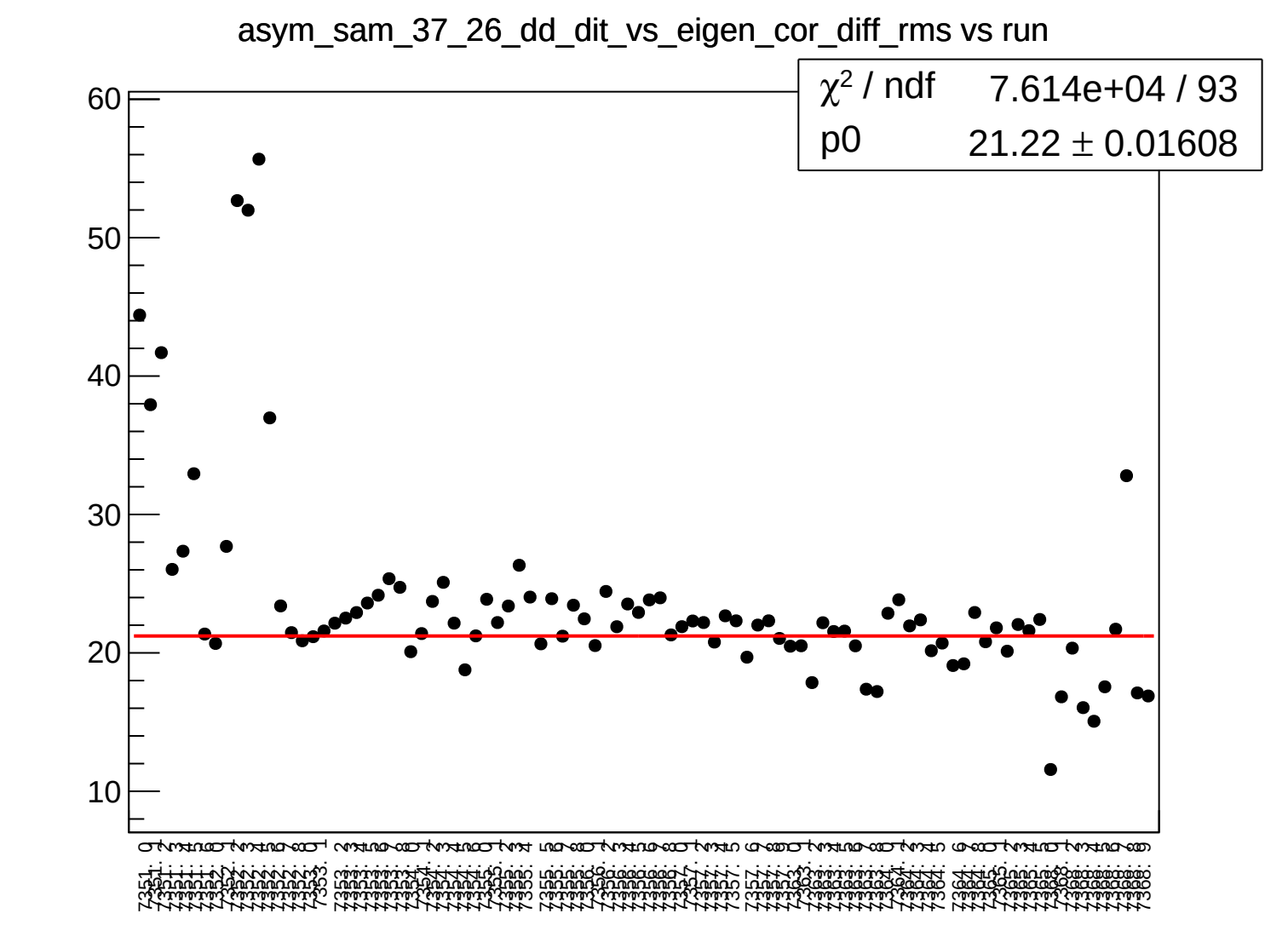

asym_sam_37_26_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 151.8 / 93
p0 −6.779e−15 ± 4.904e−15
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 94
Mean −67.94
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.04551
Std Dev 1.27
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

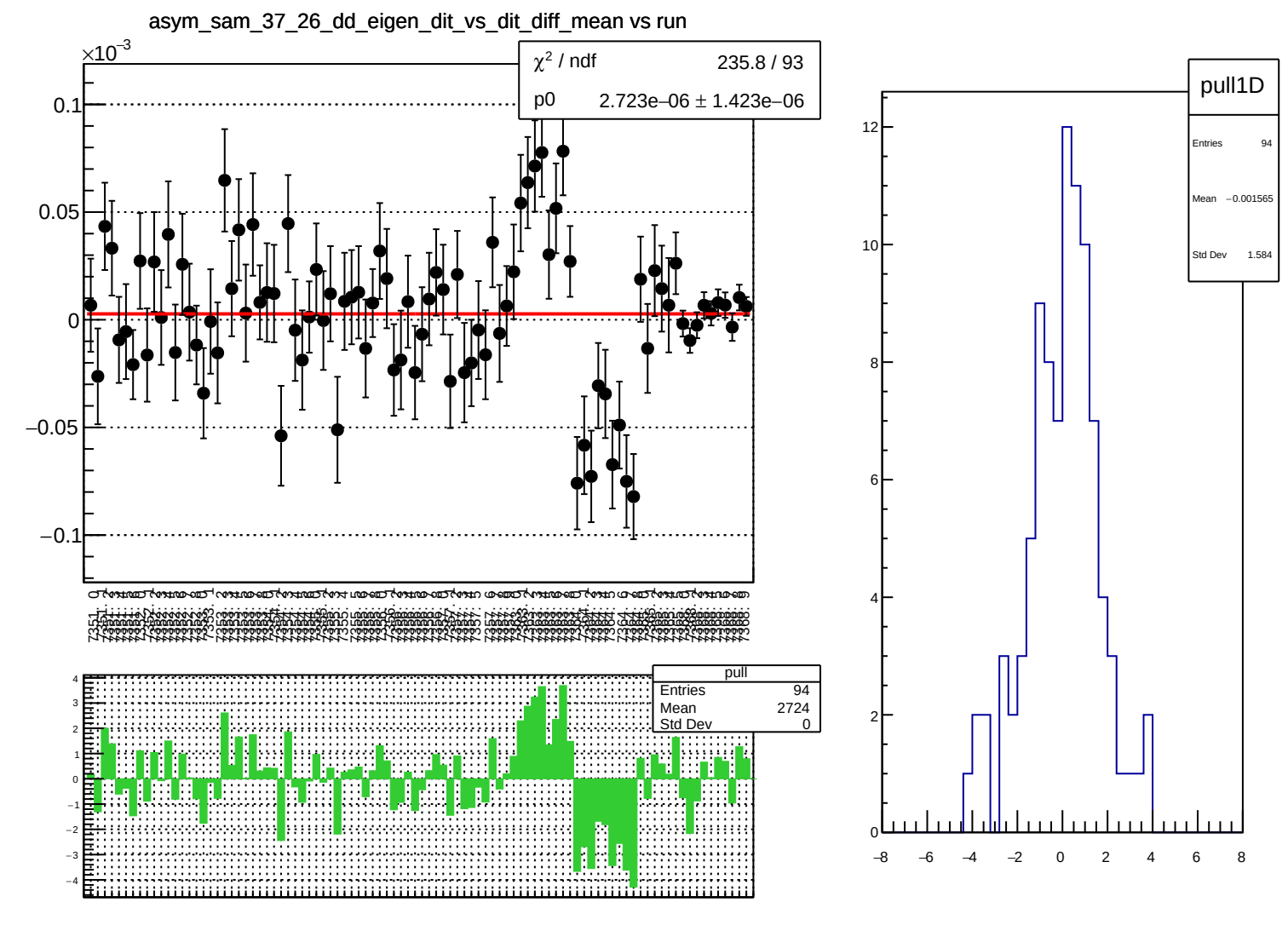

asym_sam_37_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.308e+06 / 93
p0 2.477e−12 ± 3.468e−15
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

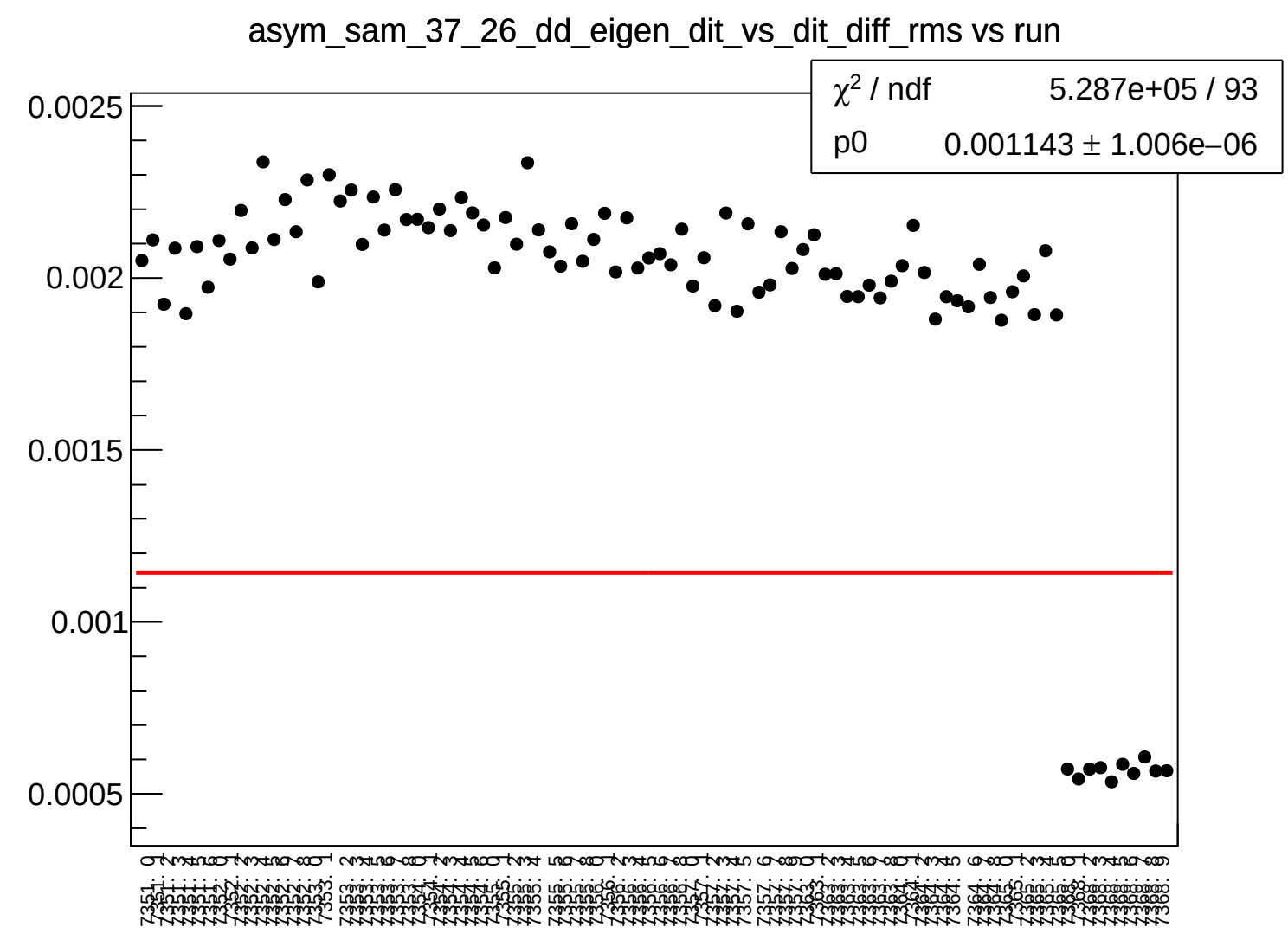

asym_sam_37_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 162 / 93
p0 −0.01169 ± 0.02273
pull
Entries 94
Mean −82.69
Std Dev 0
pull1D
Entries 94
Mean 0.04739
Std Dev 1.312

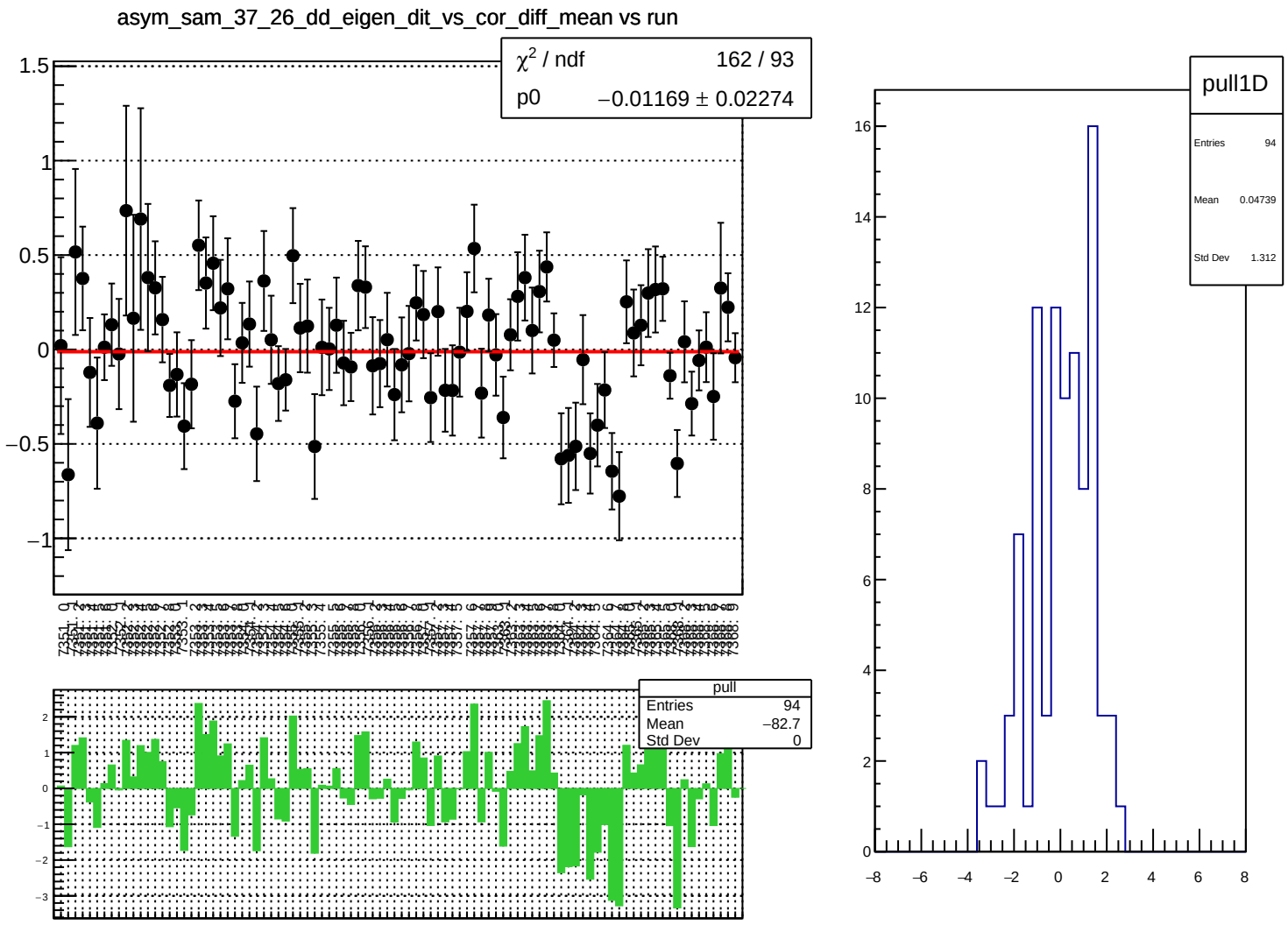

asym_sam_37_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7.614e+04 / 93
p0 21.22 ± 0.01608
60
50
40
30
20
10

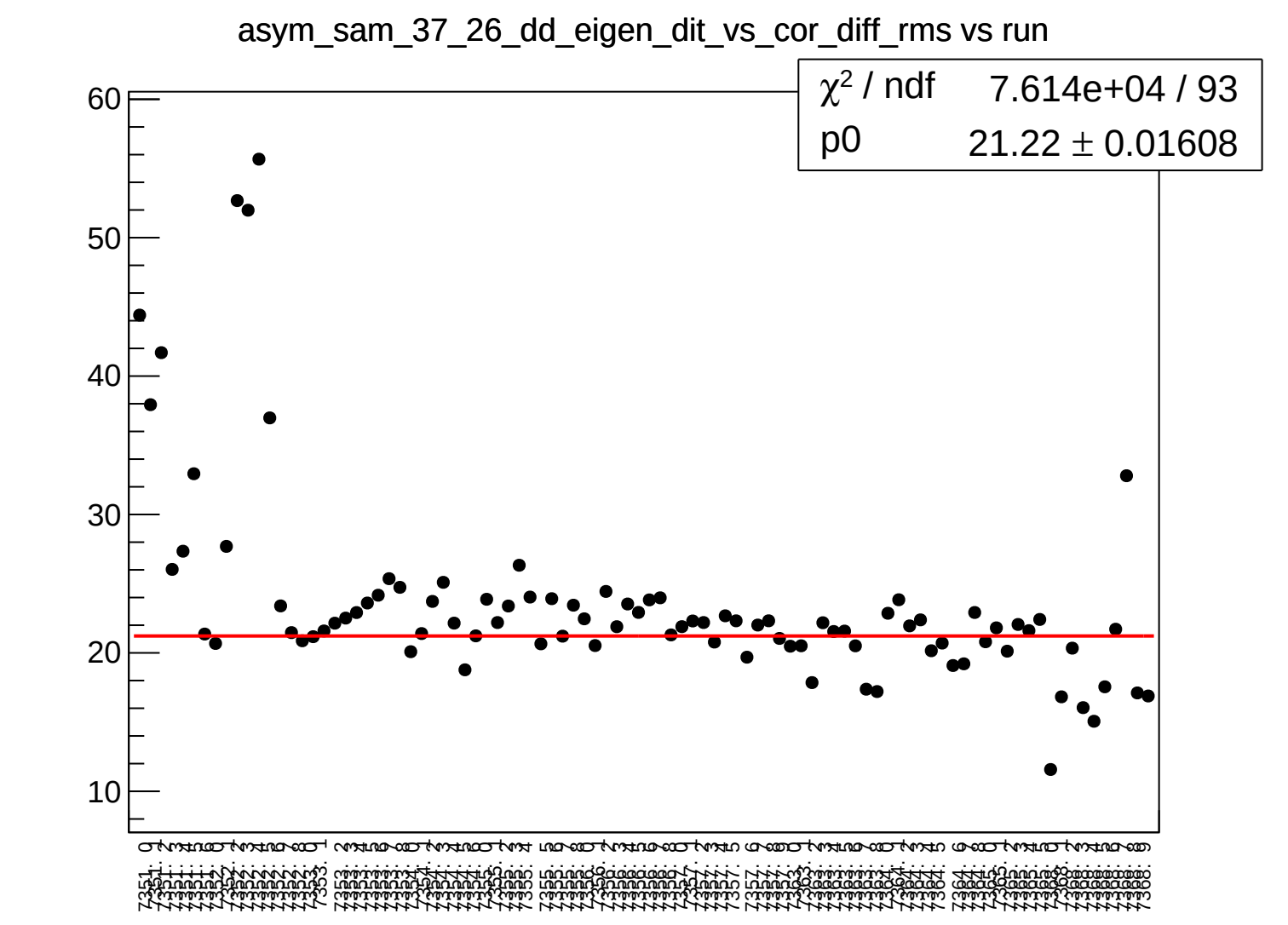

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 162 / 93
p0 −0.01169 ± 0.02273
pull
Entries 94
Mean −82.69
Std Dev 0
pull1D
Entries 94
Mean 0.04739
Std Dev 1.312

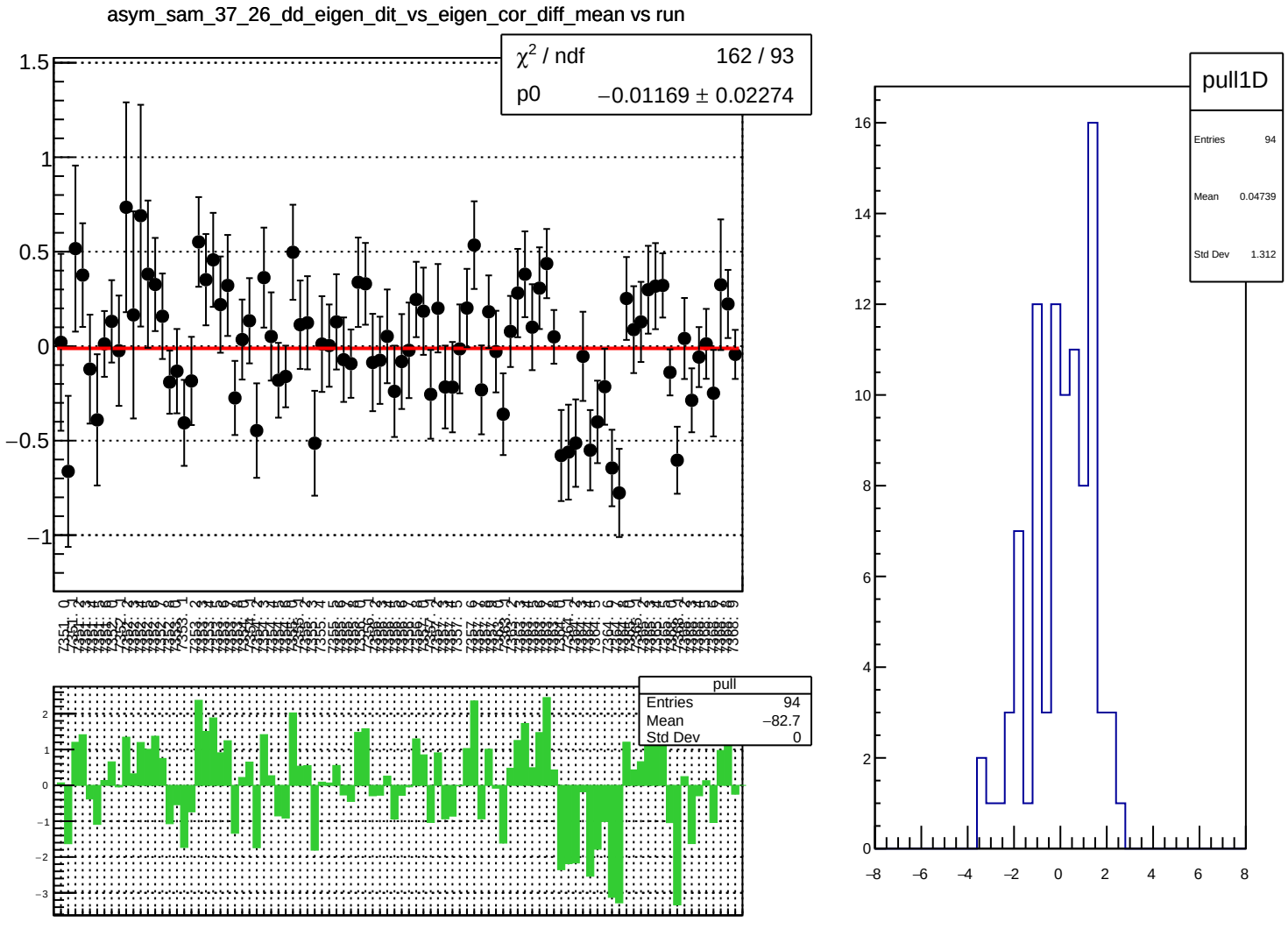

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.614e+04 / 93
p0 21.22 ± 0.01608
60
50
40
30
20
10

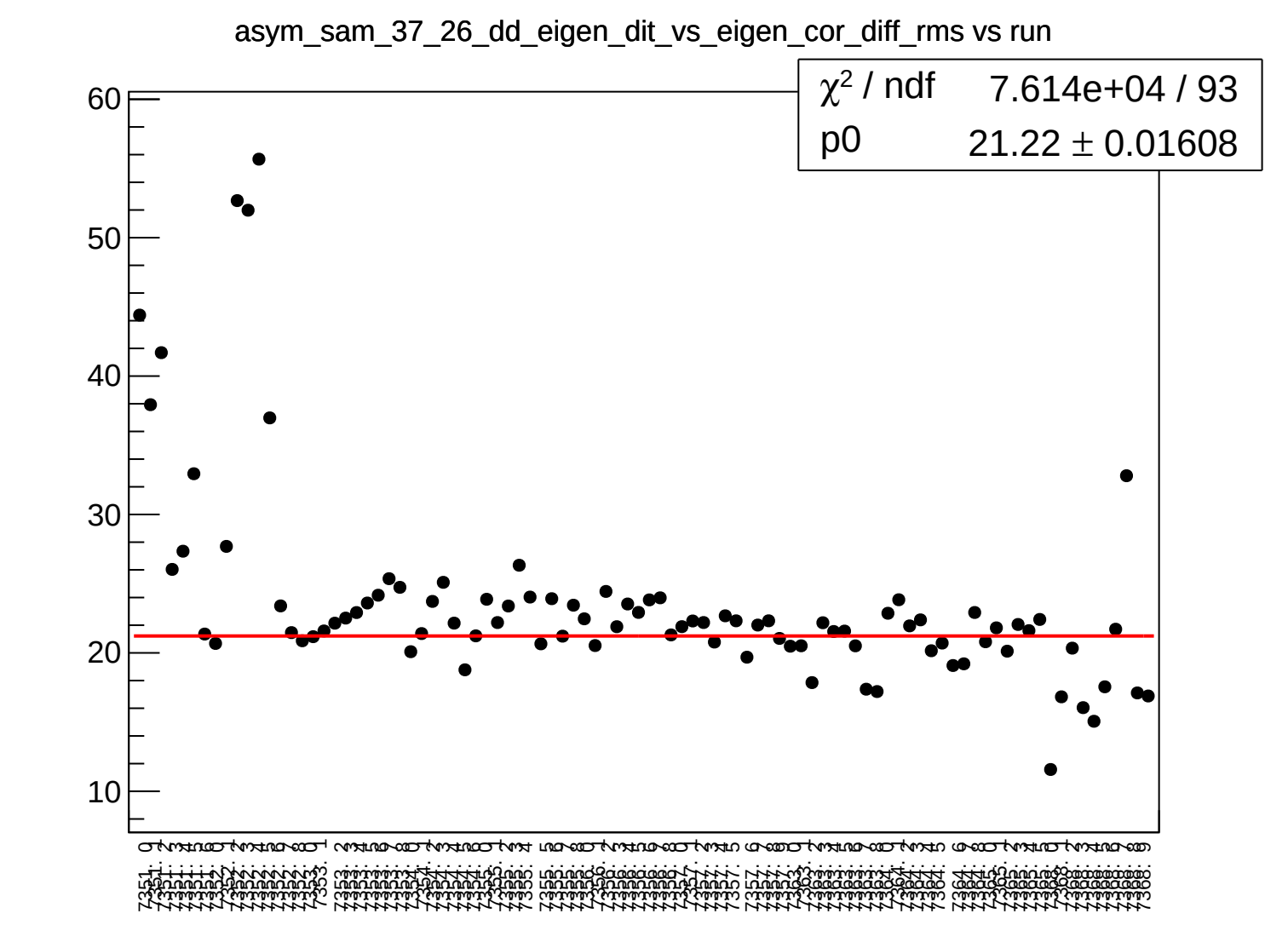

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 235.8 / 93
p0 2.723e−06 ± 1.423e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 94
Mean 2724
Std Dev 0
pull1D
Entries 94
Mean −0.001565
Std Dev 1.584
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

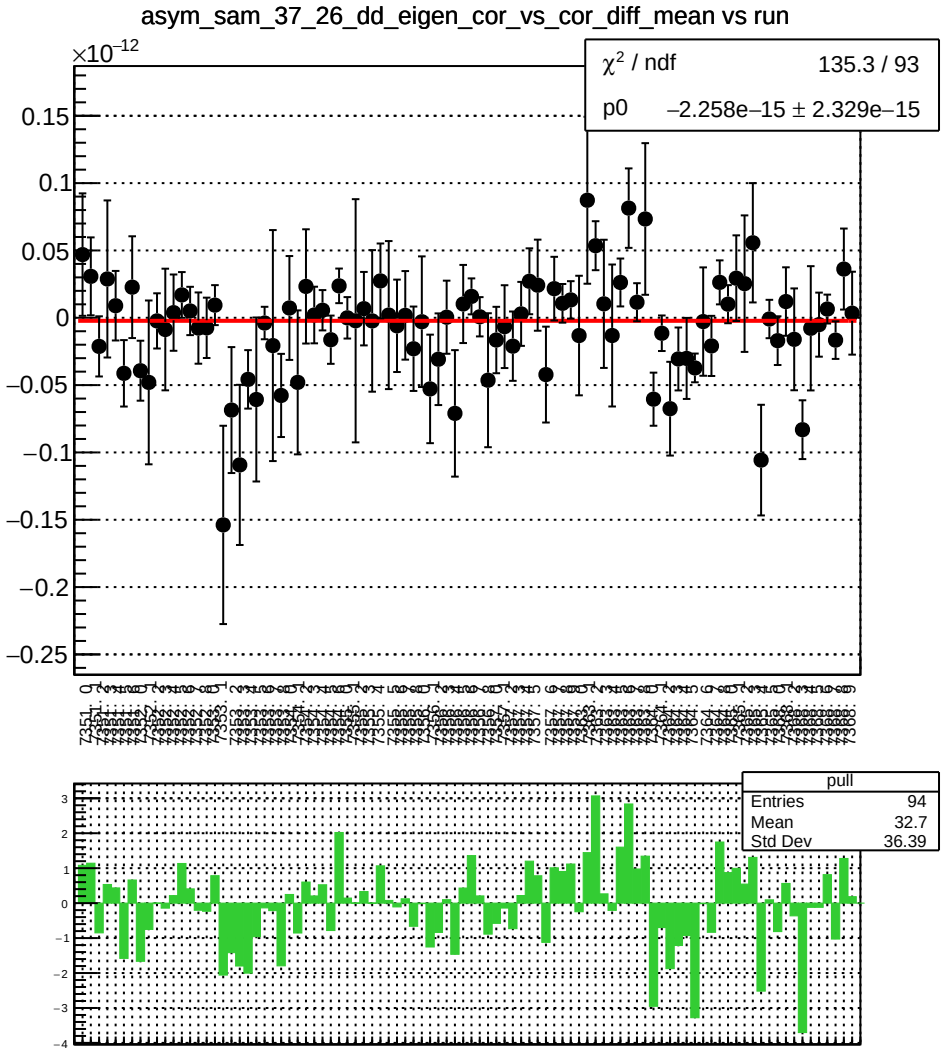

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.287e+05 / 93
p0 0.001143 ± 1.006e−06
0.0025
0.002
0.0015
0.001
0.0005

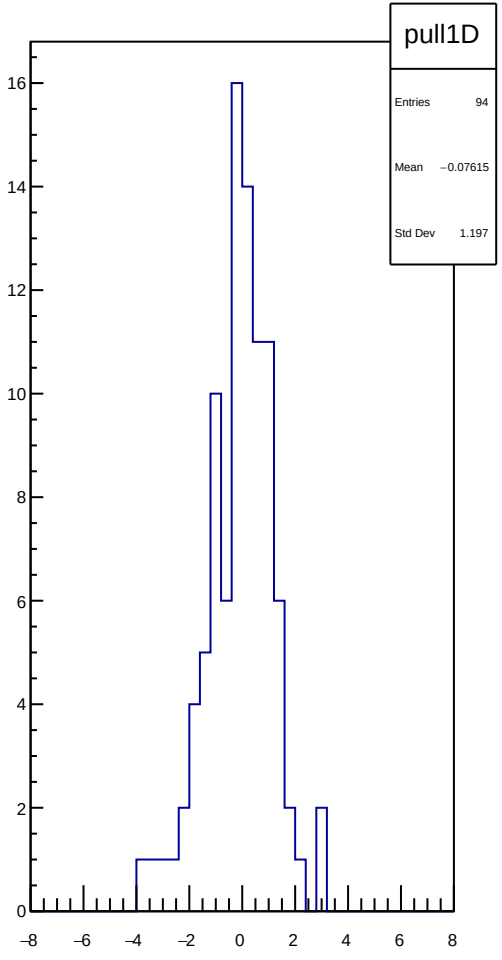

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 162 / 93
p0 −0.01169 ± 0.02274
pull
Entries 94
Mean −82.7
Std Dev 0
pull1D
Entries 94
Mean 0.04739
Std Dev 1.312

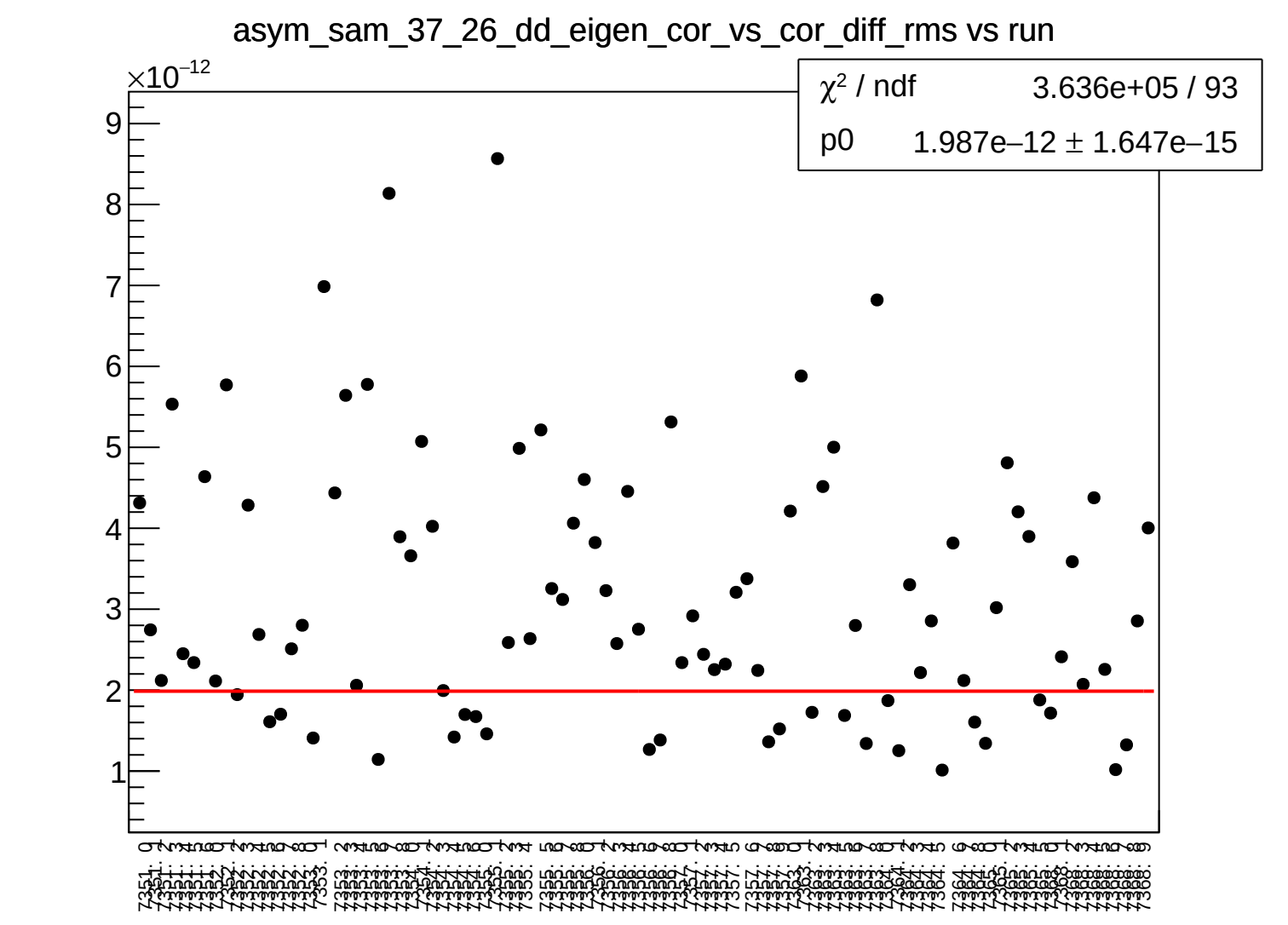

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.614e+04 / 93
p0 21.22 ± 0.01608
60
50
40
30
20
10

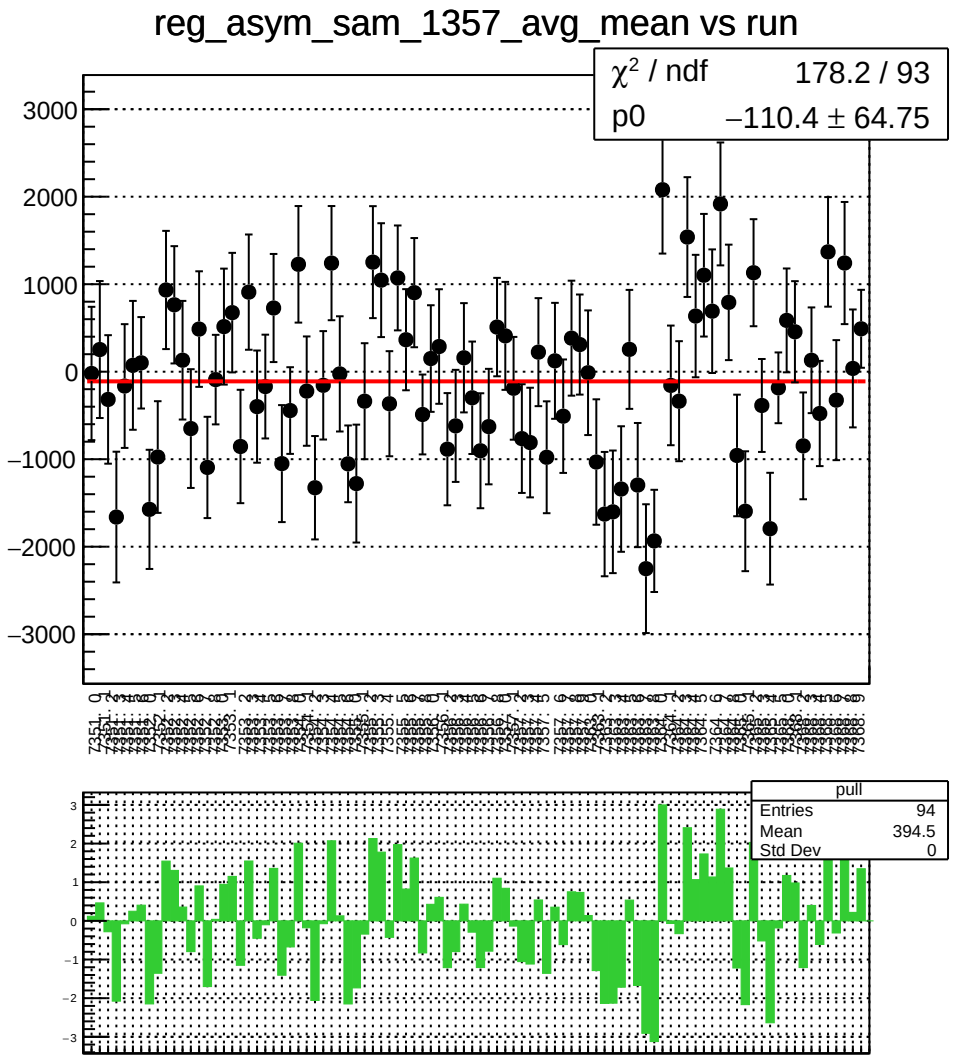

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 162 / 93
p0 −0.01169 ± 0.02274
pull
Entries 94
Mean −82.7
Std Dev 0
pull1D
Entries 94
Mean 0.04739
Std Dev 1.312

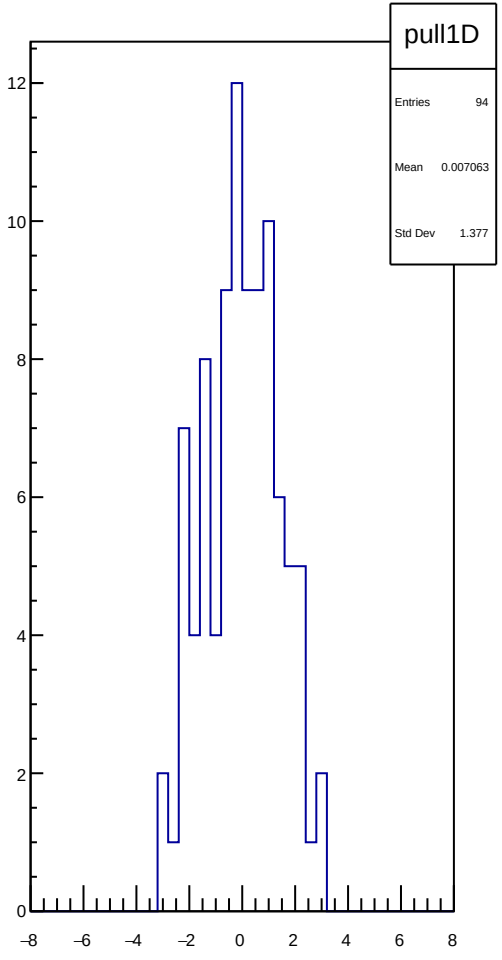

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.614e+04 / 93
p0 21.22 ± 0.01608
60
50
40
30
20
10

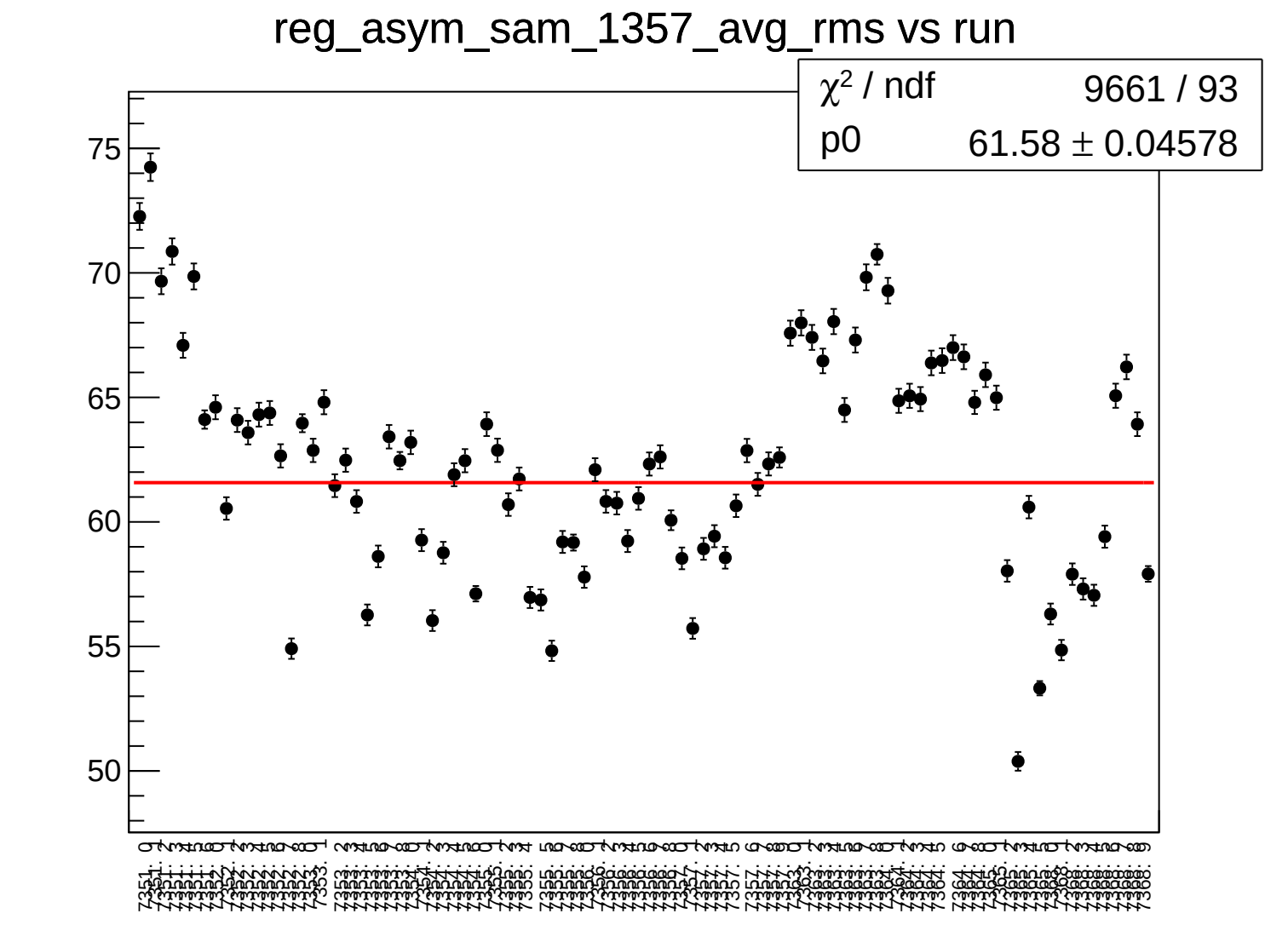

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 135.3 / 93
p0 −2.258e−15 ± 2.329e−15
pull
Entries 94
Mean 32.7
Std Dev 36.39

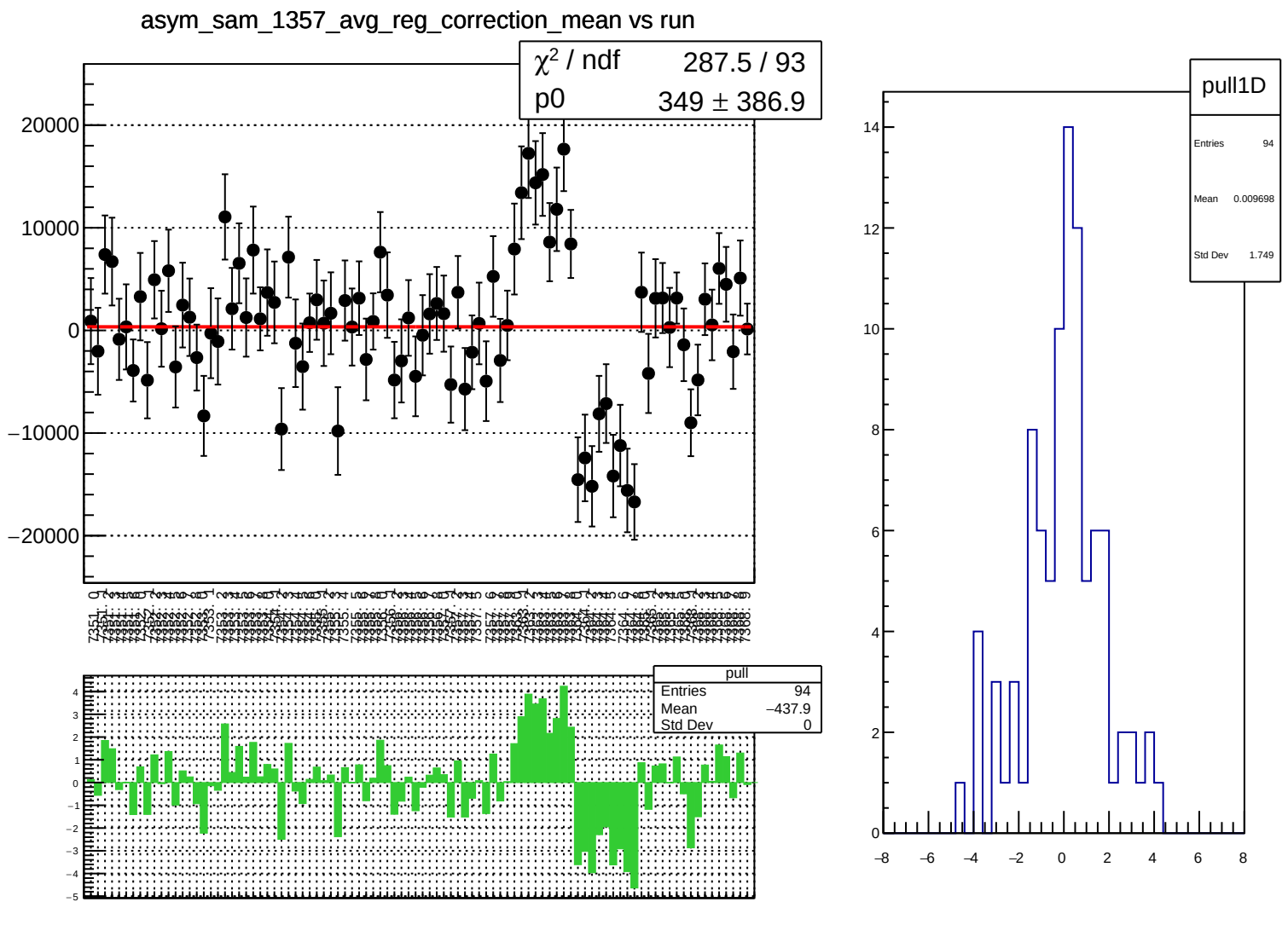

pull1D
Entries 94
Mean −0.07615
Std Dev 1.197

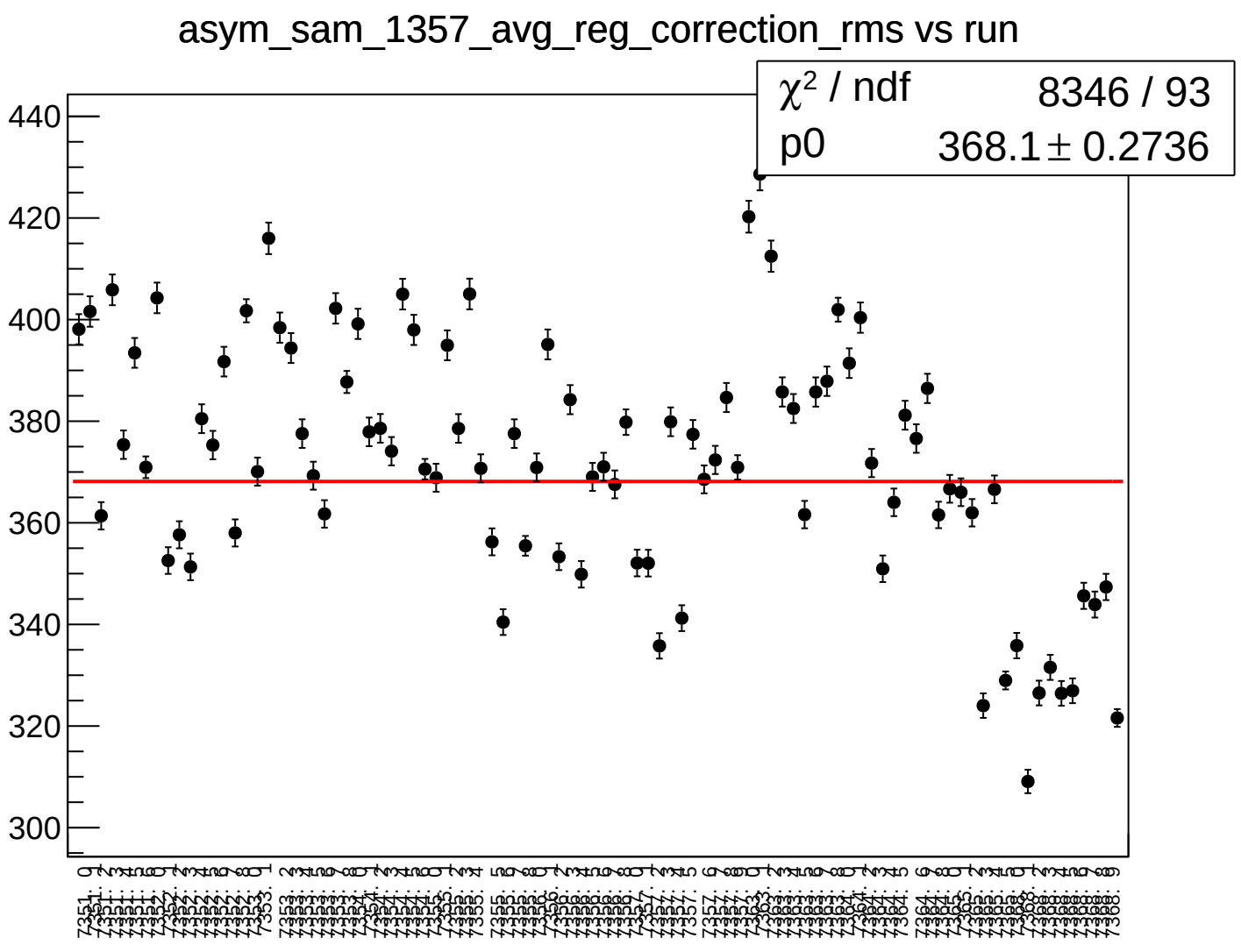

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.636e+05 / 93
p0 1.987e−12 ± 1.647e−15
9
8
7
6
5
4
3
2
1

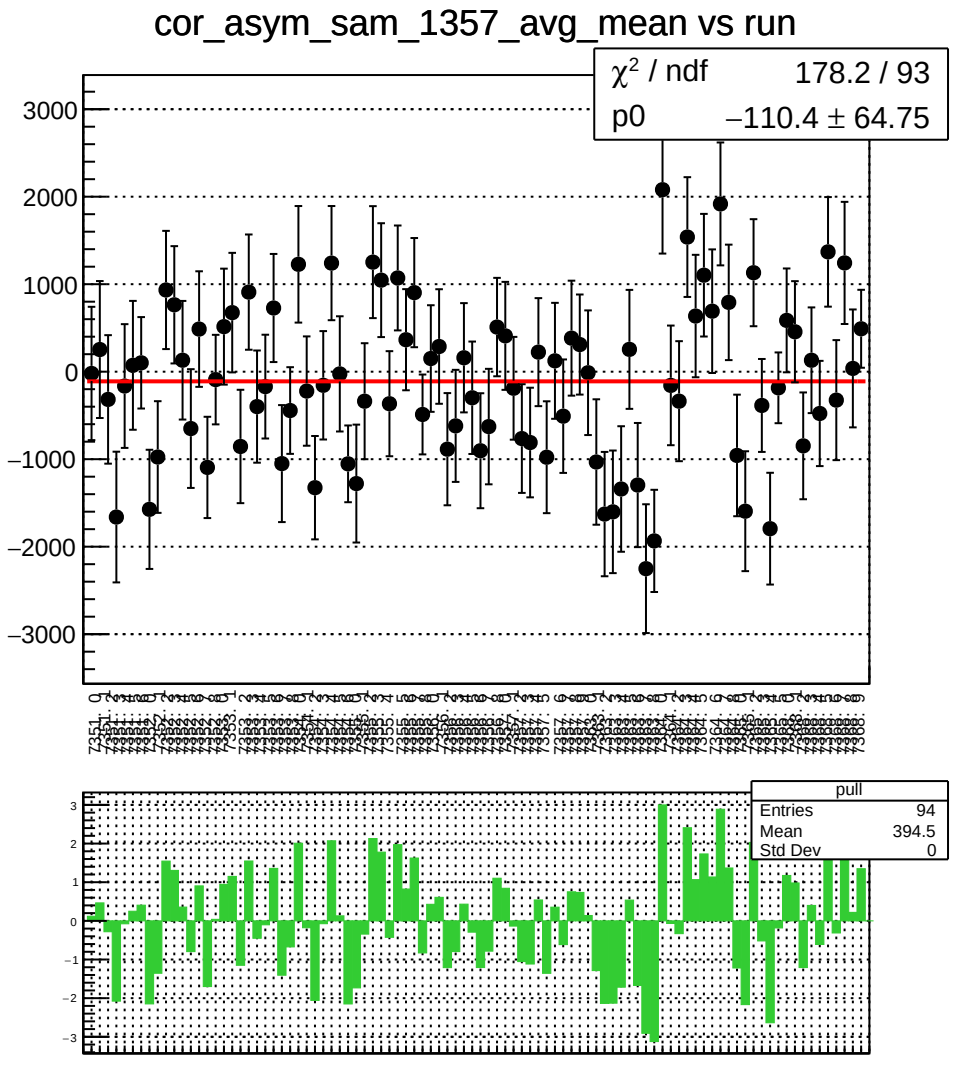

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 178.2 / 93
p0 −110.4 ± 64.75
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 94
Mean 394.5
Std Dev 0
3
2
1
0
−1
−2
−3

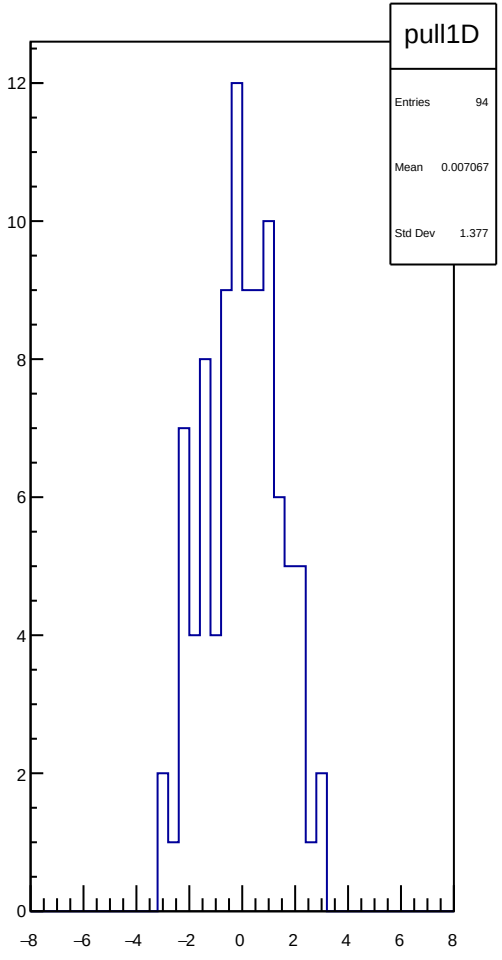

pull1D
Entries 94
Mean 0.007063
Std Dev 1.377
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

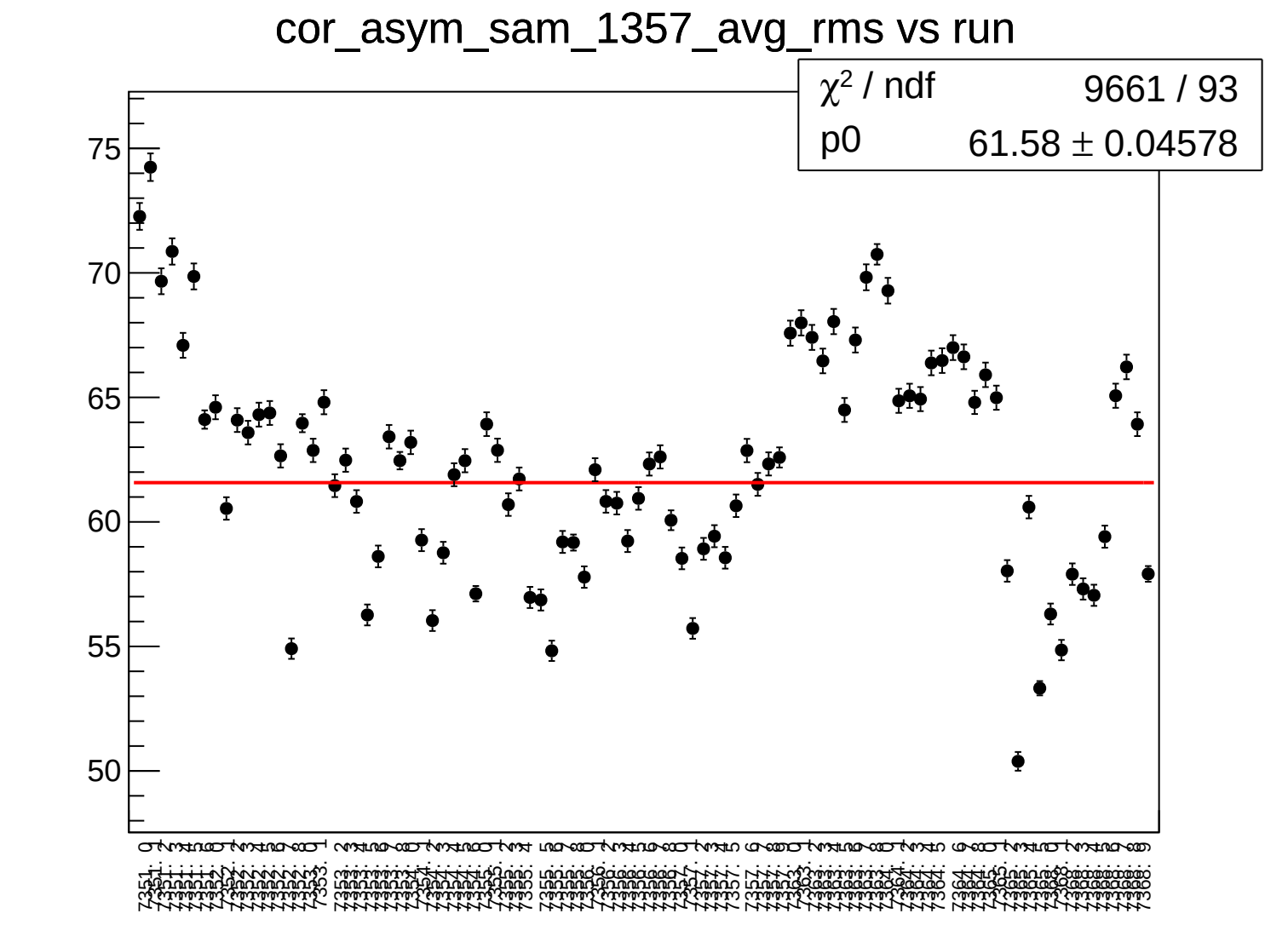

reg_asym_sam_1357_avg_rms vs run
χ^2 / ndf 9661 / 93
p0 61.58 ± 0.04578
75
70
65
60
55
50

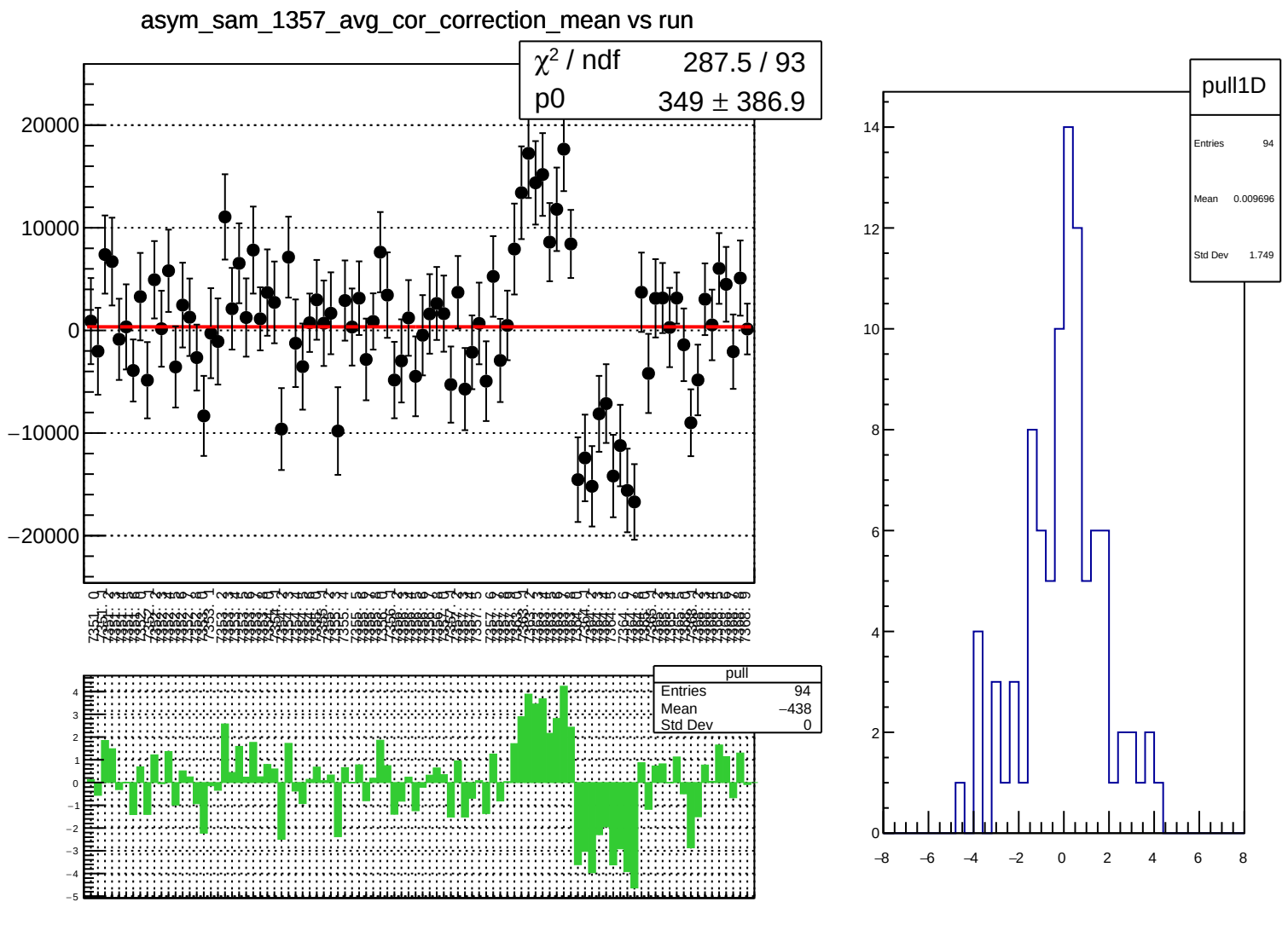

asym_sam_1357_avg_reg_correction_mean vs run
χ² / ndf 287.5 / 93
p0 349 ± 386.9
20000
10000
0
−10000
−20000
pull
Entries 94
Mean −437.9
Std Dev 0
pull1D
Entries 94
Mean 0.009698
Std Dev 1.749

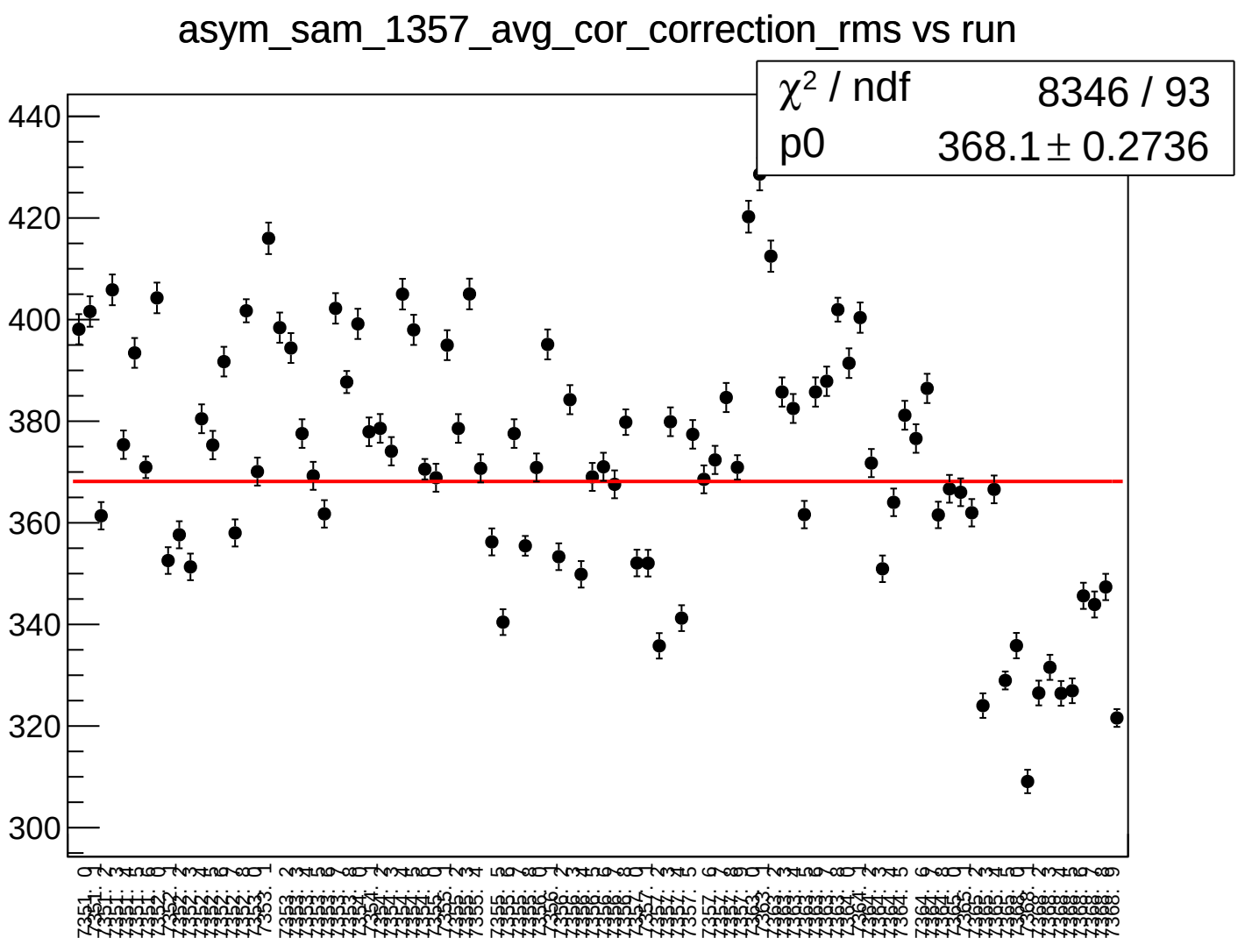

asym_sam_1357_avg_reg_correction_rms vs run
χ² / ndf 8346 / 93
p0 368.1 ± 0.2736
440
420
400
380
360
340
320
300

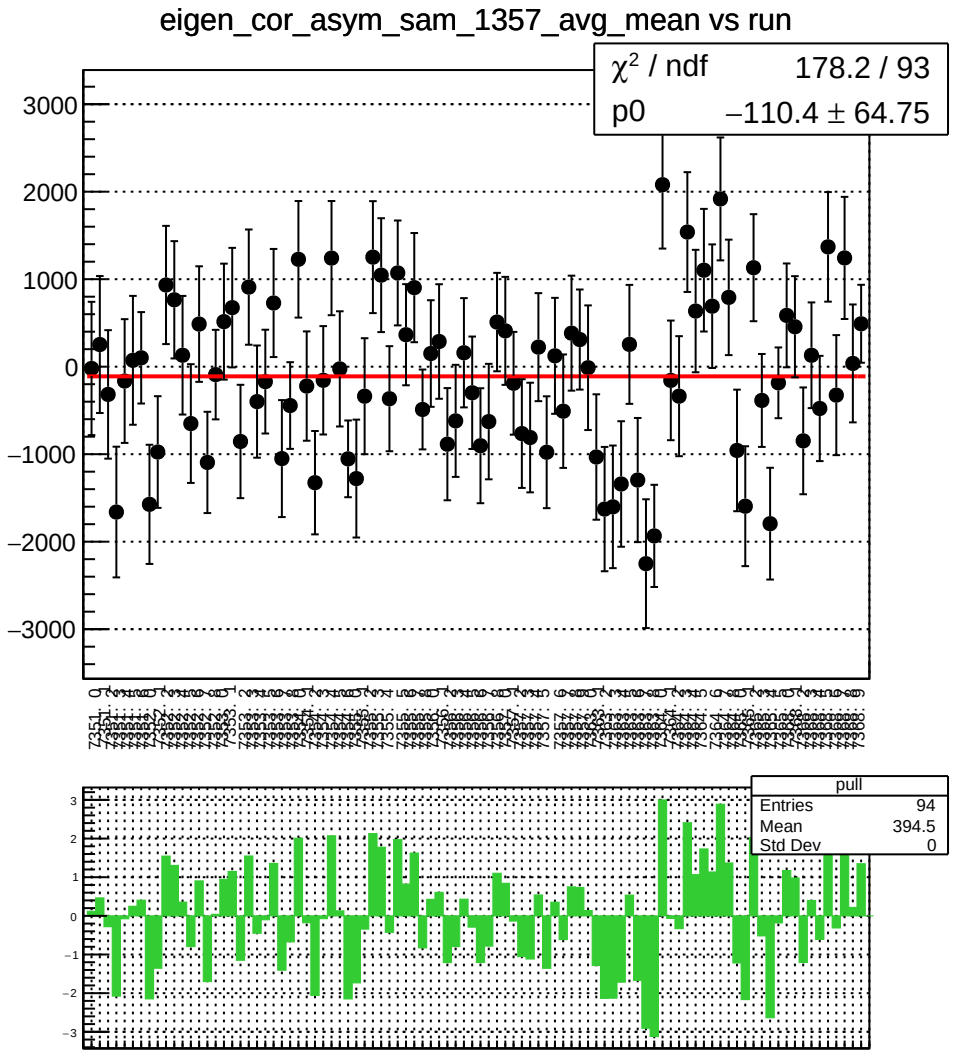

cor_asym_sam_1357_avg_mean vs run
χ² / ndf 178.2 / 93
p0 −110.4 ± 64.75
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 94
Mean 394.5
Std Dev 0
3
2
1
0
−1
−2
−3

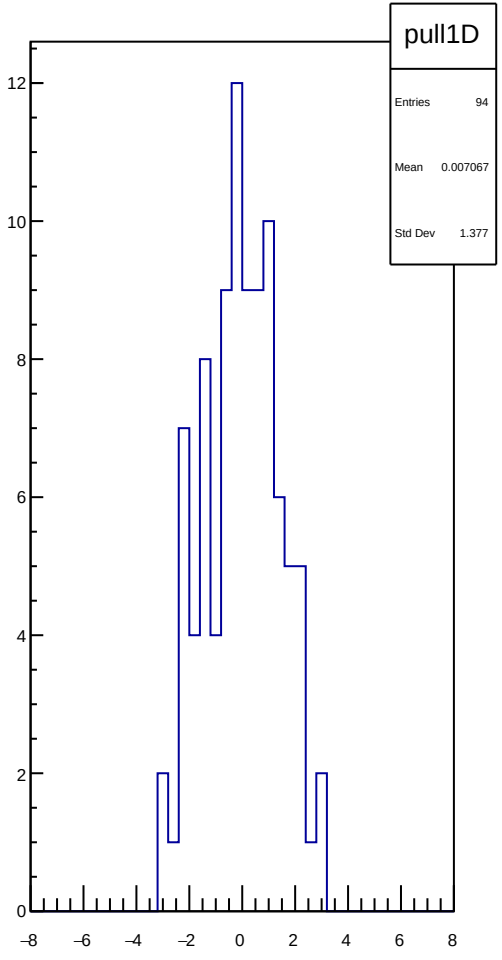

pull1D
Entries 94
Mean 0.007067
Std Dev 1.377
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

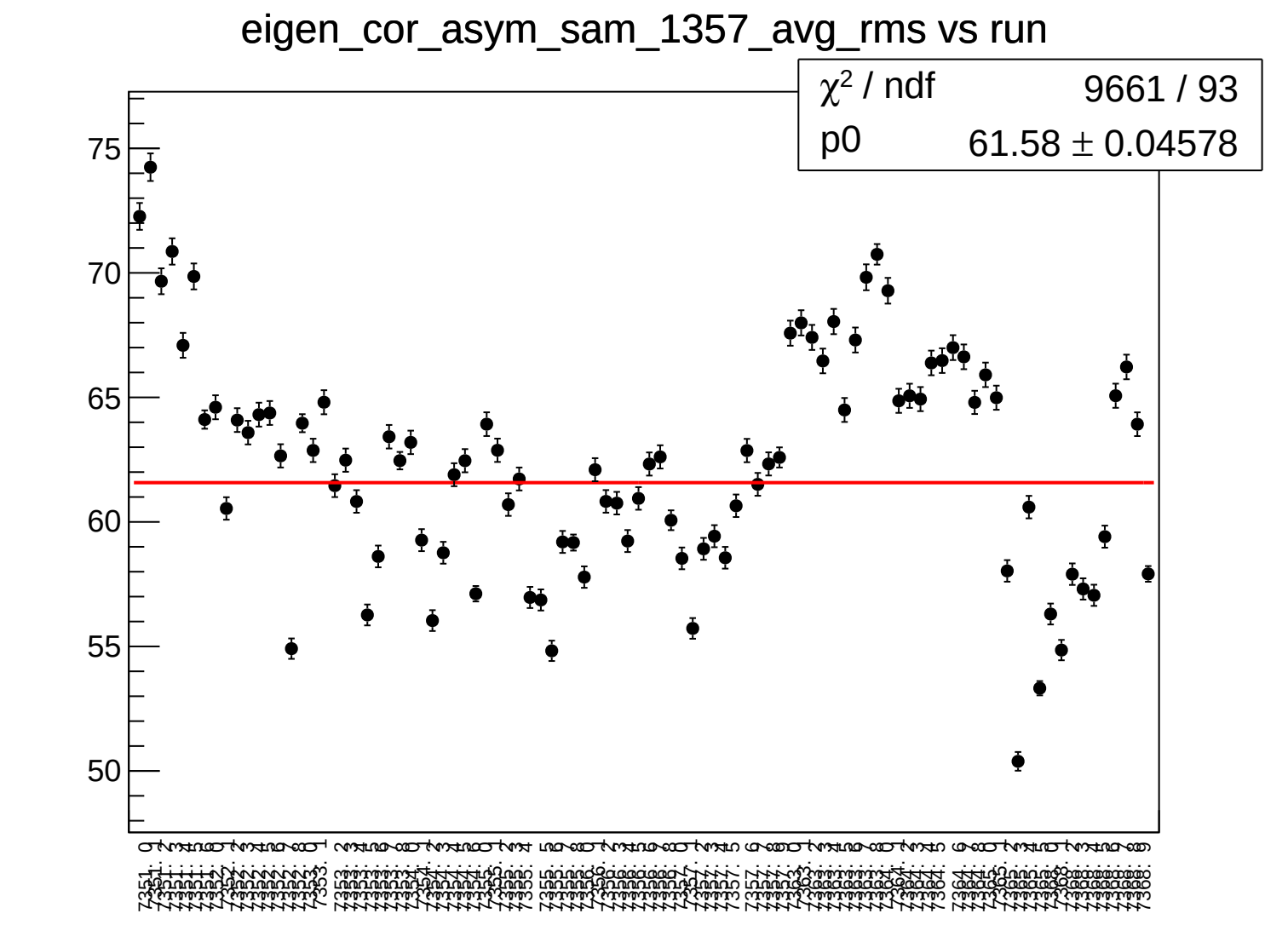

cor_asym_sam_1357_avg_rms vs run
χ^2 / ndf 9661 / 93
p0 61.58 ± 0.04578
75
70
65
60
55
50

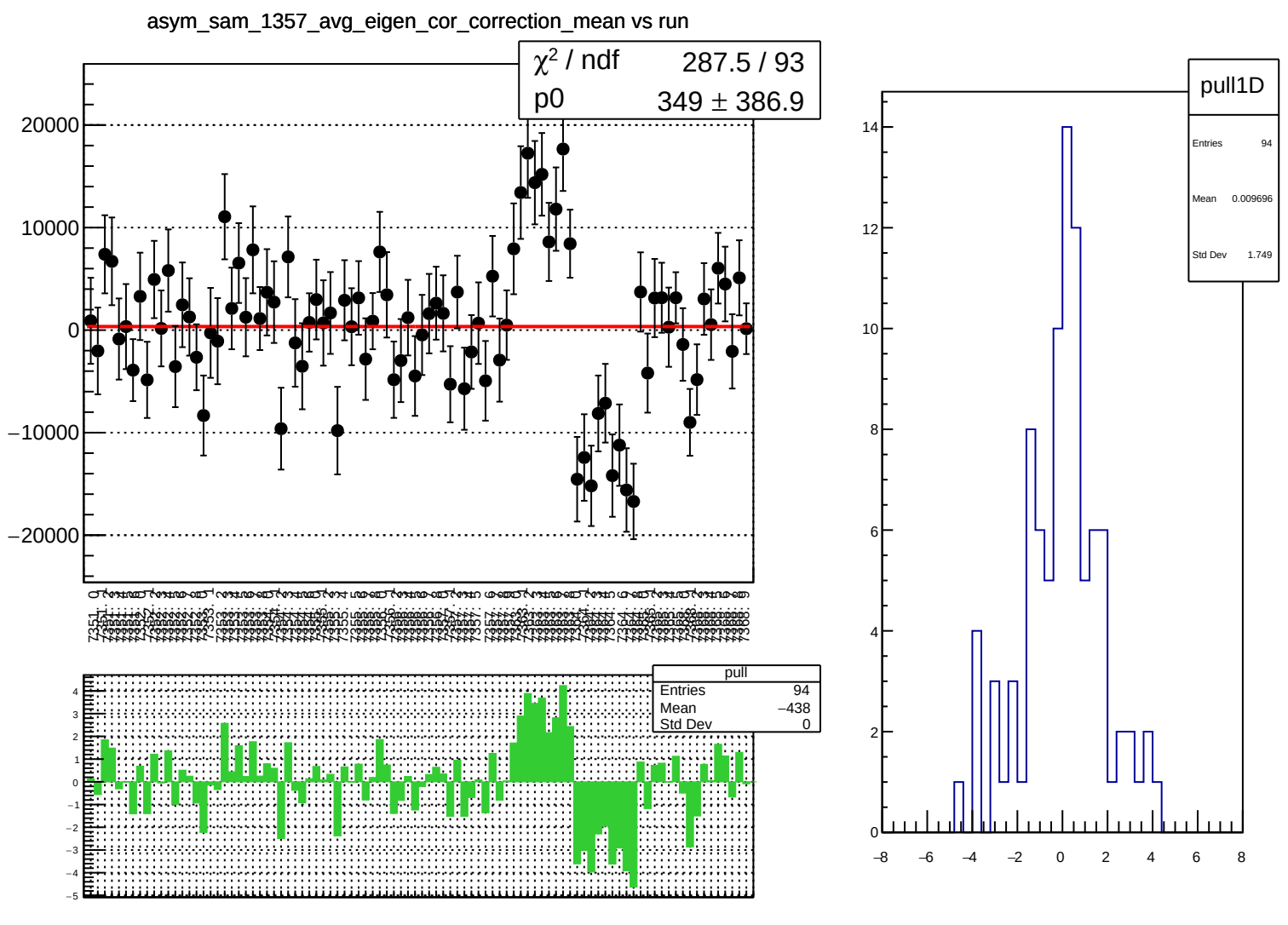

asym_sam_1357_avg_cor_correction_mean vs run
χ² / ndf 287.5 / 93
p0 349 ± 386.9
20000
10000
0
−10000
−20000
pull
Entries 94
Mean −438
Std Dev 0
pull1D
Entries 94
Mean 0.009696
Std Dev 1.749

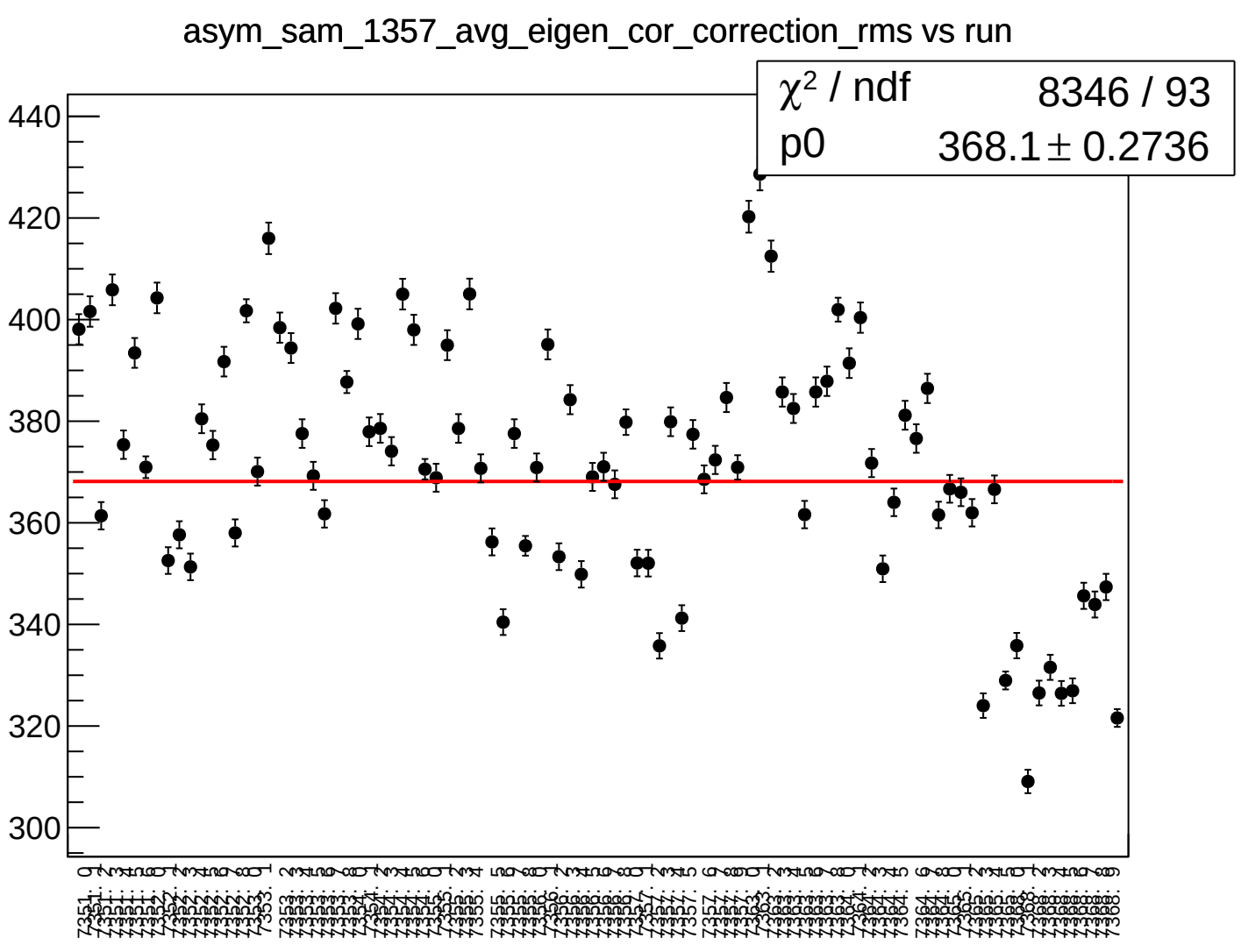

asym_sam_1357_avg_cor_correction_rms vs run
χ² / ndf 8346 / 93
p0 368.1 ± 0.2736
440
420
400
380
360
340
320
300

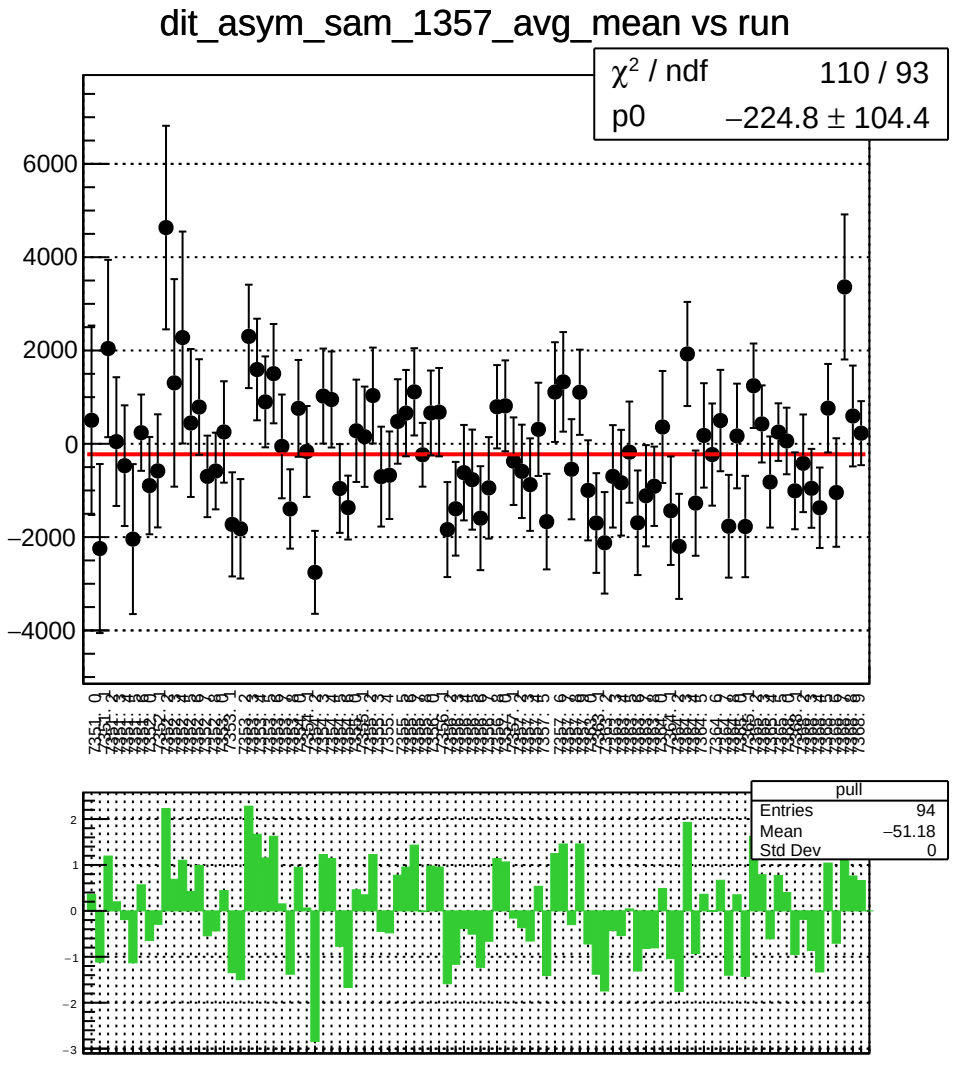

eigen_cor_asym_sam_1357_avg_mean vs run
χ² / ndf 178.2 / 93
p0 −110.4 ± 64.75
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 94
Mean 394.5
Std Dev 0
3
2
1
0
−1
−2
−3

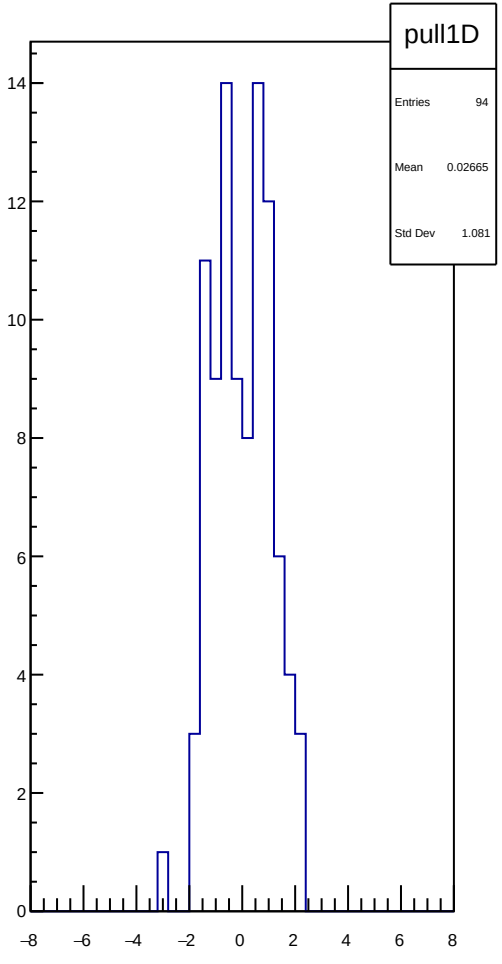

pull1D
Entries 94
Mean 0.007067
Std Dev 1.377
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

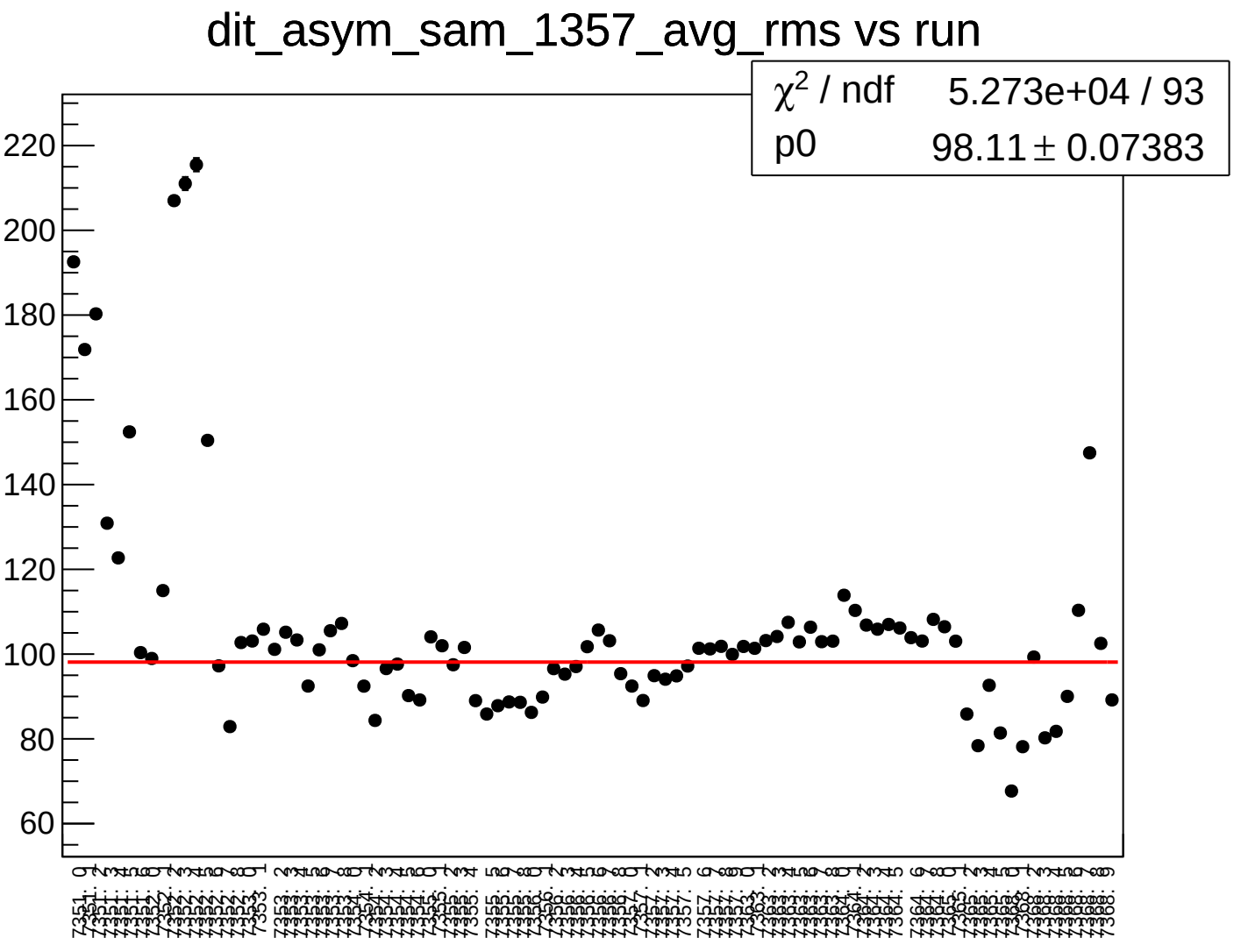

eigen_cor_asym_sam_1357_avg_rms vs run
χ^2 / ndf 9661 / 93
p0 61.58 ± 0.04578
75
70
65
60
55
50

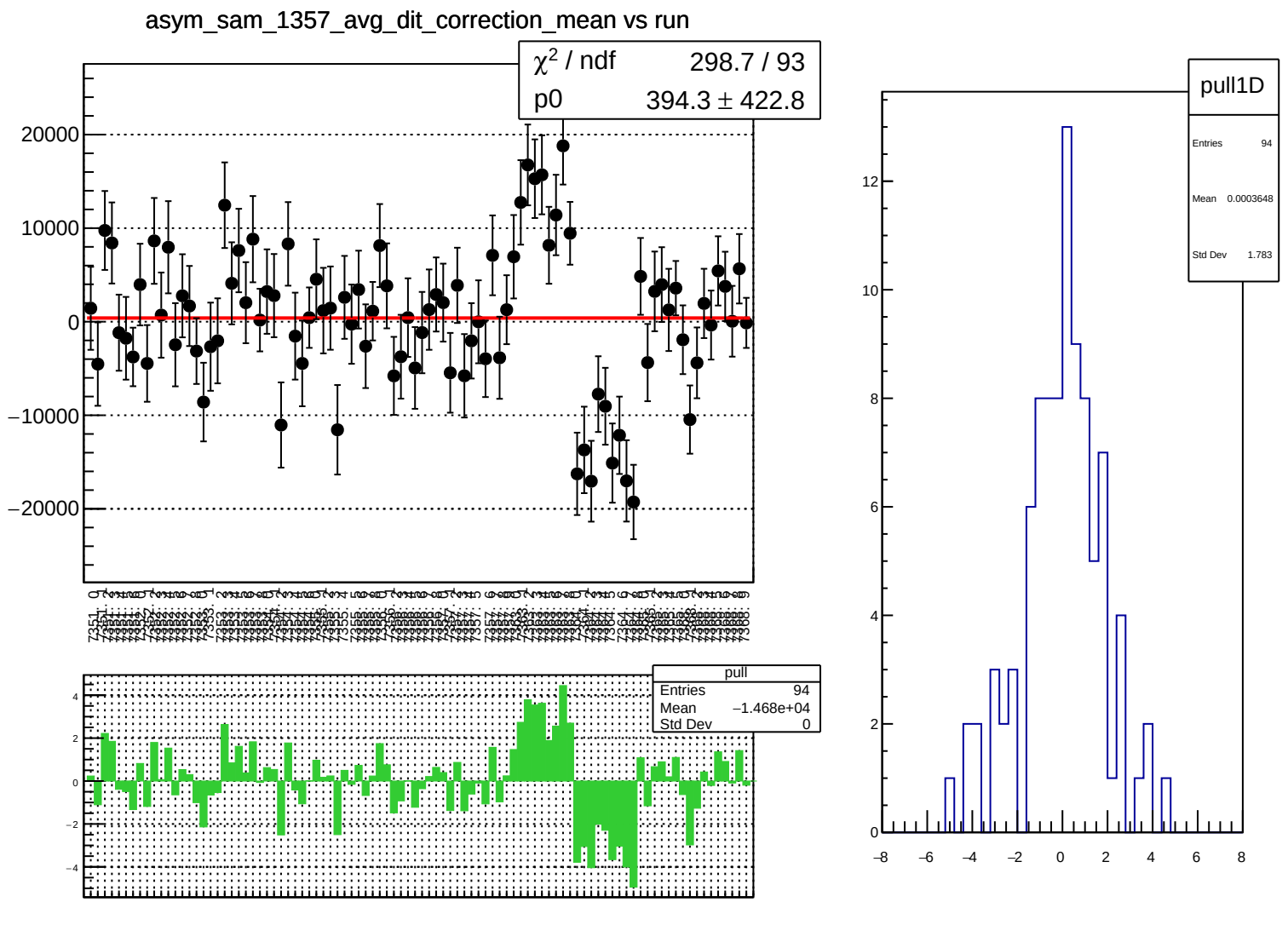

asym_sam_1357_avg_eigen_cor_correction_mean vs run
χ² / ndf 287.5 / 93
p0 349 ± 386.9
20000
10000
0
−10000
−20000
pull
Entries 94
Mean −438
Std Dev 0
pull1D
Entries 94
Mean 0.009696
Std Dev 1.749

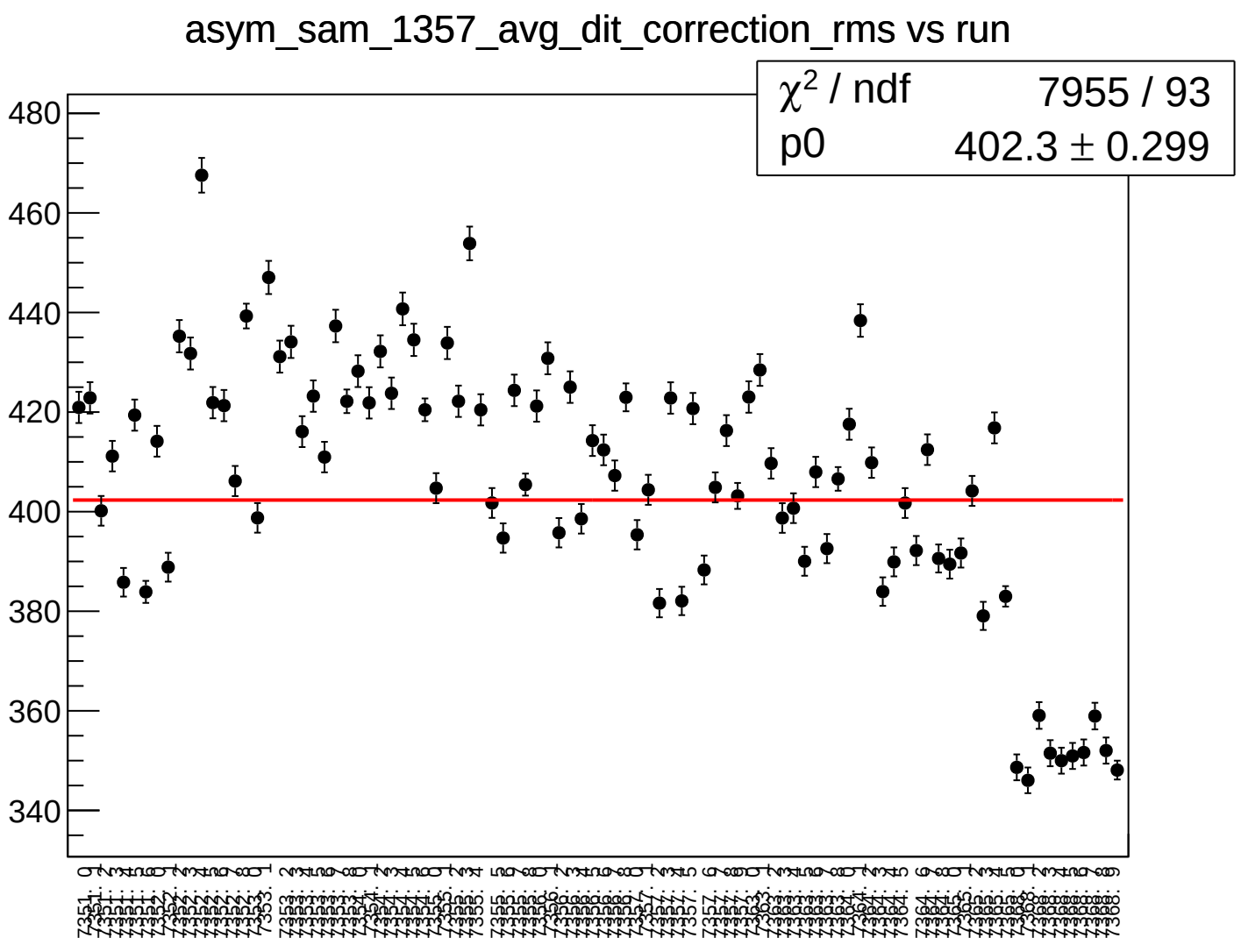

asym_sam_1357_avg_eigen_cor_correction_rms vs run
χ² / ndf 8346 / 93
p0 368.1 ± 0.2736
440
420
400
380
360
340
320
300

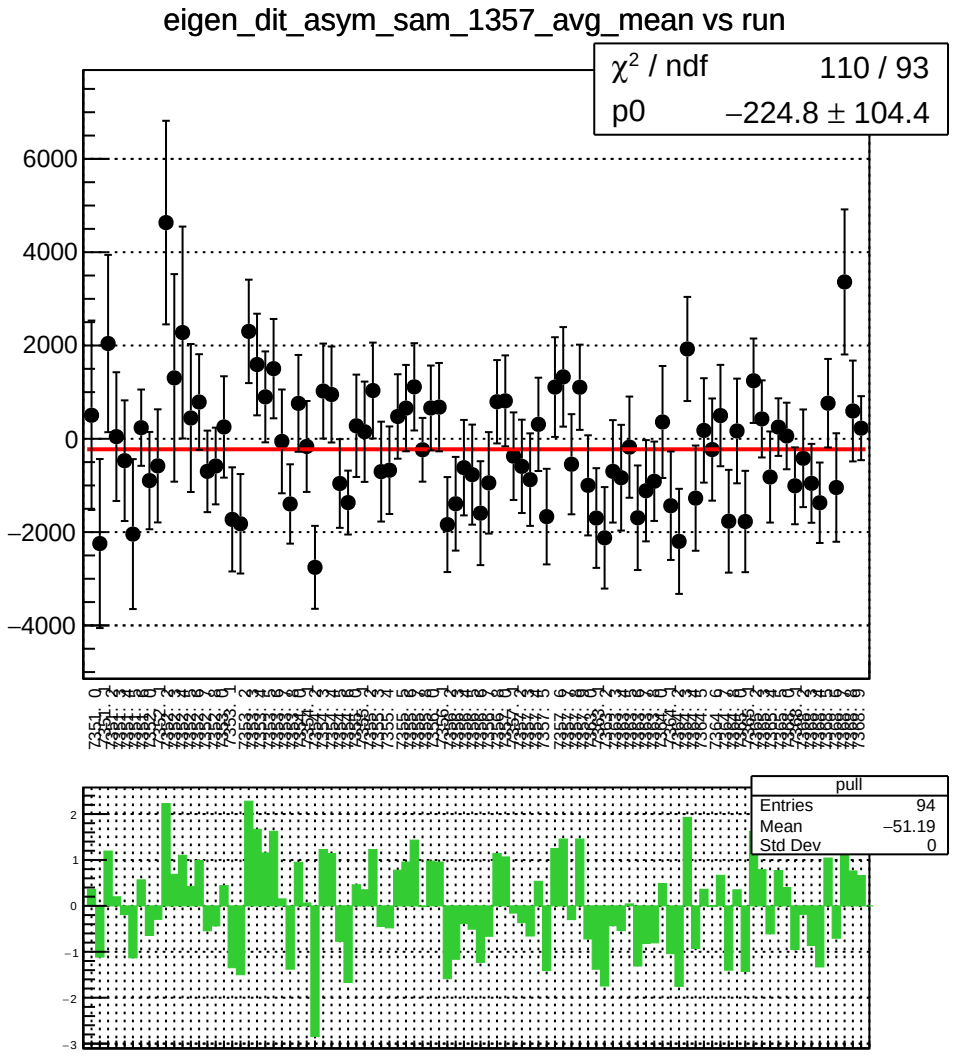

dit_asym_sam_1357_avg_mean vs run
χ² / ndf 110 / 93
p0 −224.8 ± 104.4
6000
4000
2000
0
−2000
−4000
pull
Entries 94
Mean −51.18
Std Dev 0
2
1
0
−1
−2
−3

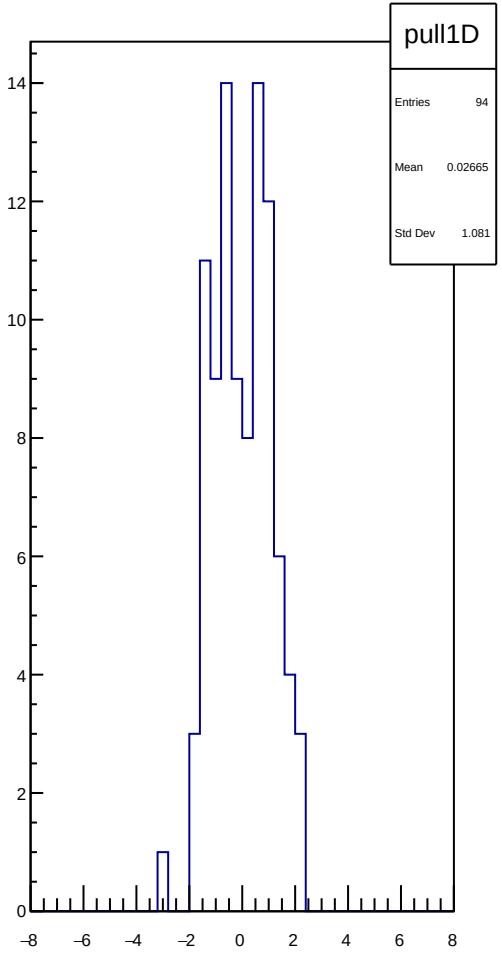

pull1D
Entries 94
Mean 0.02665
Std Dev 1.081
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

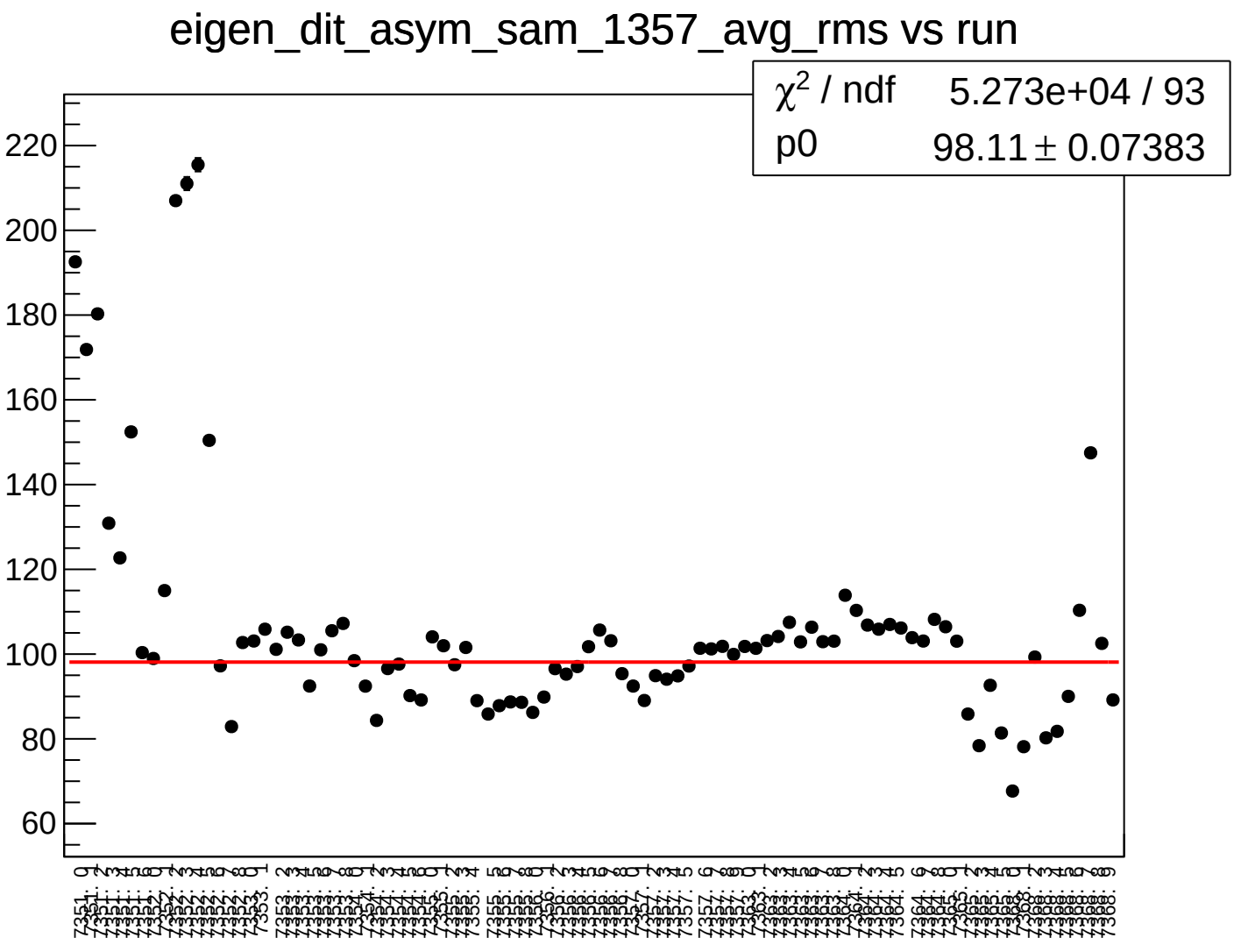

dit_asym_sam_1357_avg_rms vs run
χ^2 / ndf 5.273e+04 / 93
p0 98.11 ± 0.07383
220
200
180
160
140
120
100
80
60

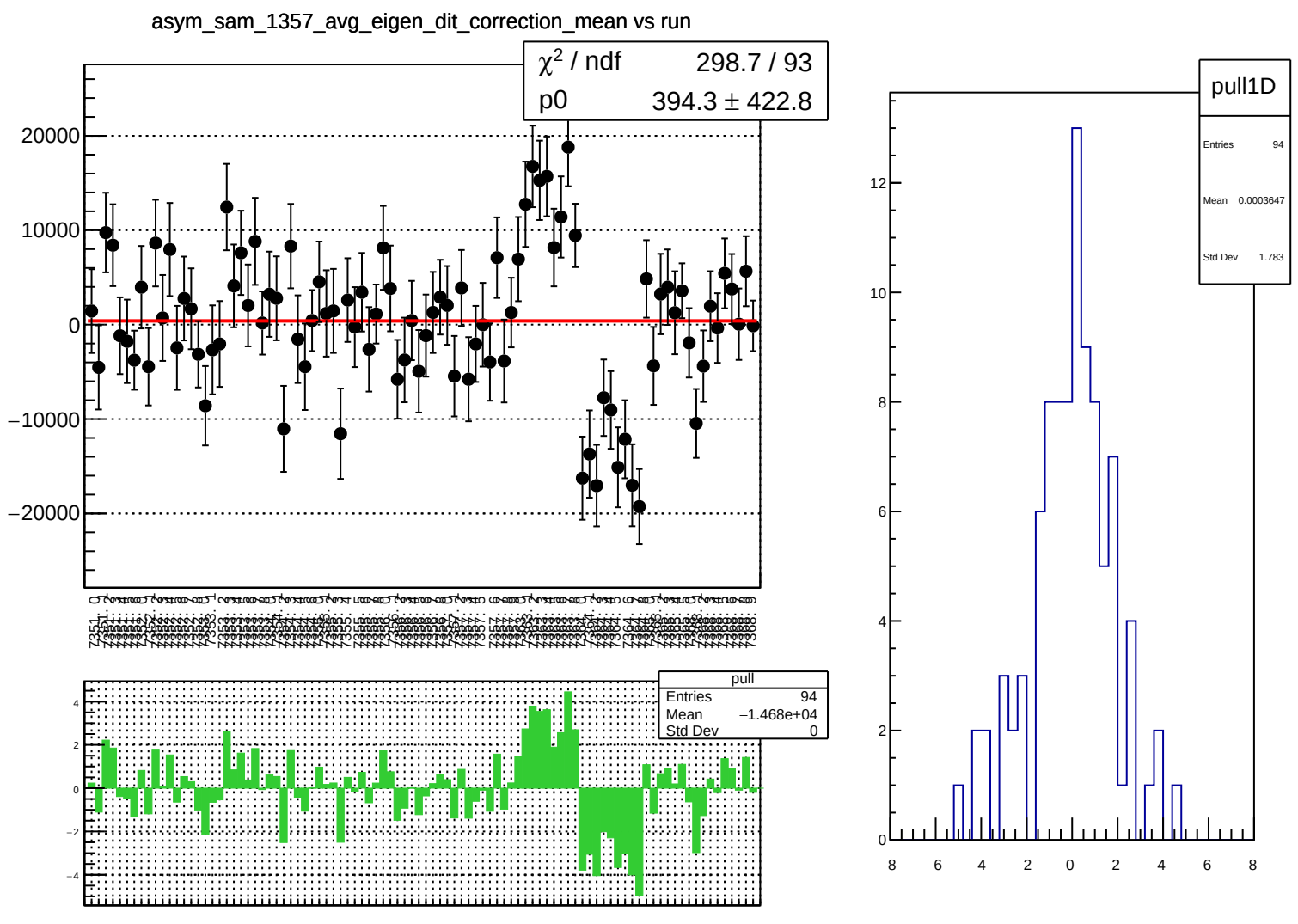

asym_sam_1357_avg_dit_correction_mean vs run
χ² / ndf 298.7 / 93
p0 394.3 ± 422.8
20000
10000
0
−10000
−20000
pull
Entries 94
Mean −1.468e+04
Std Dev 0
4
2
0
−2
−4
pull1D
Entries 94
Mean 0.0003648
Std Dev 1.783
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

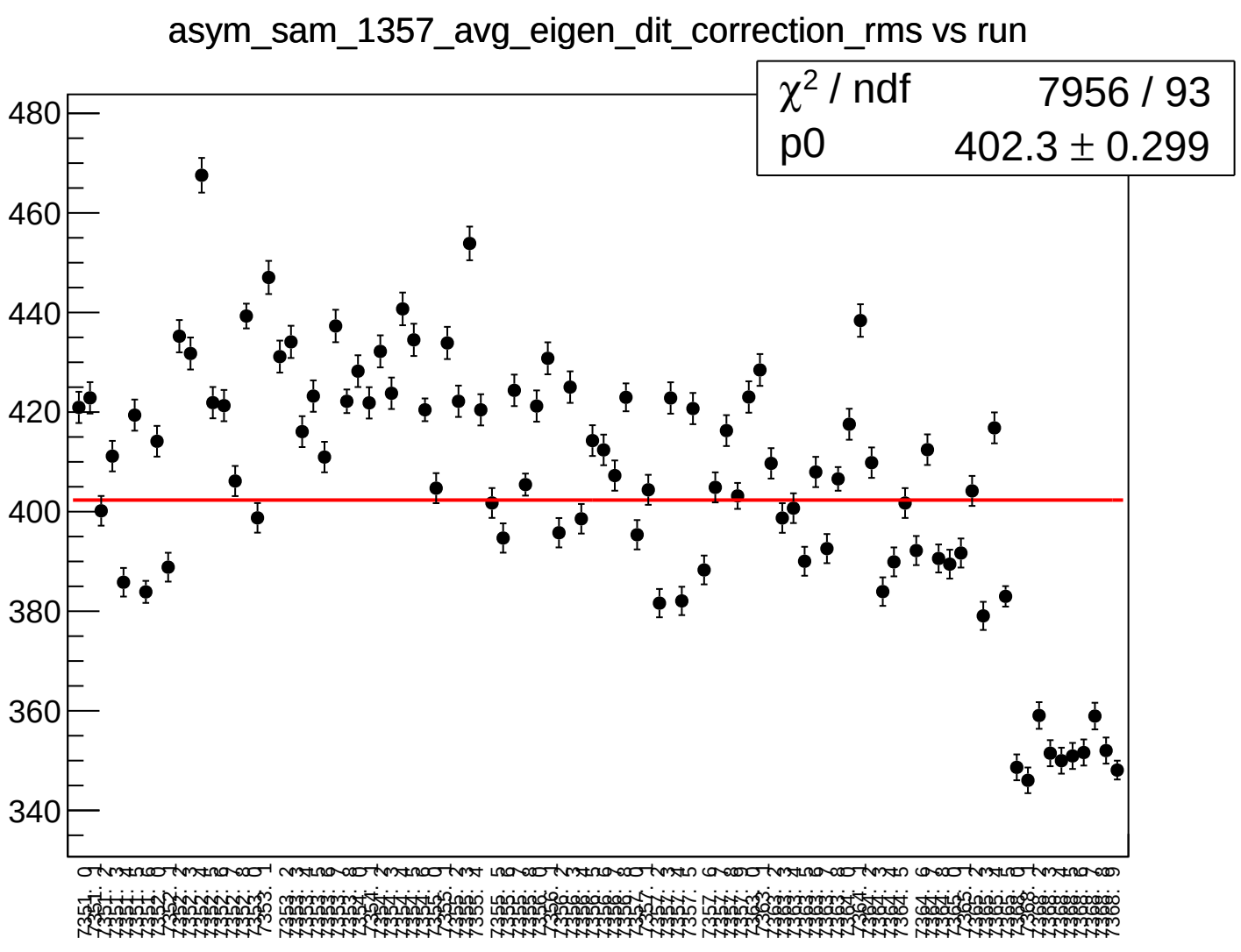

asym_sam_1357_avg_dit_correction_rms vs run
χ² / ndf 7955 / 93
p0 402.3 ± 0.299
480
460
440
420
400
380
360
340

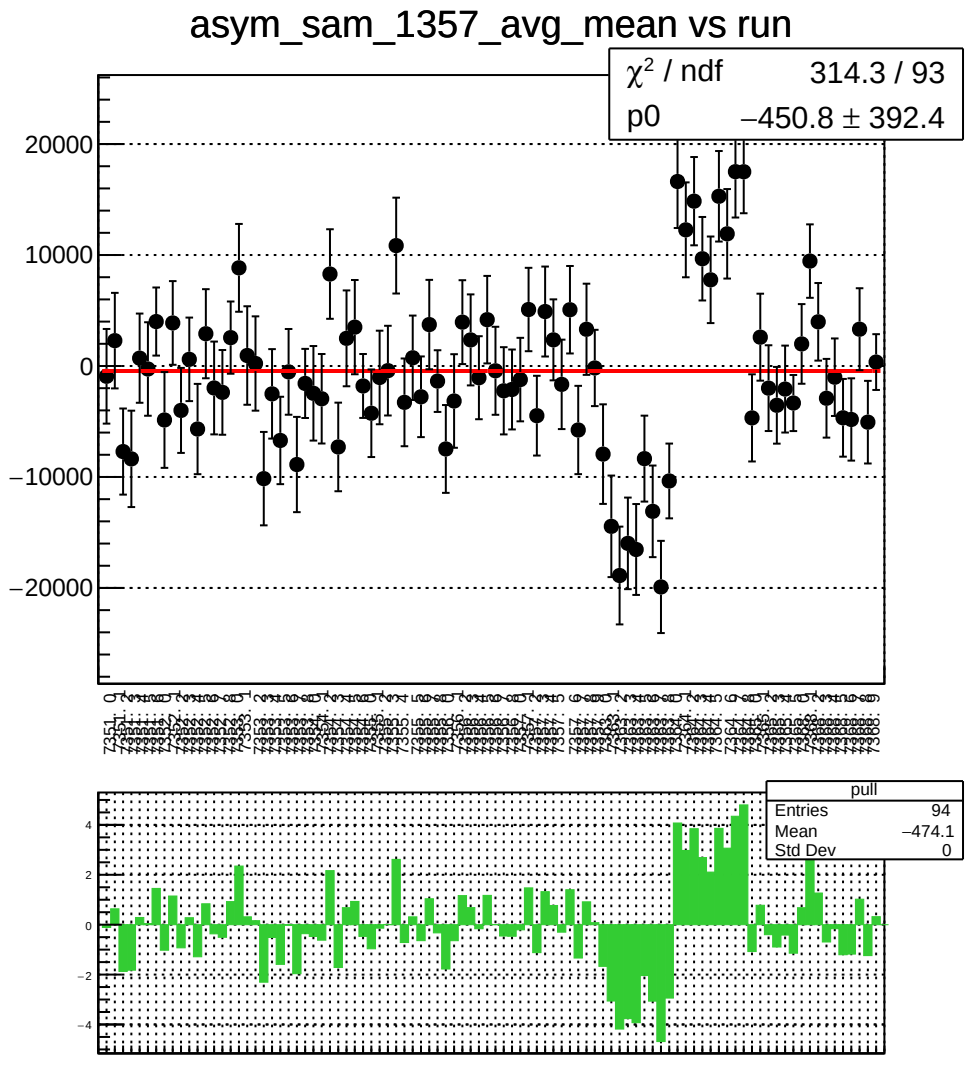

eigen_dit_asym_sam_1357_avg_mean vs run
χ² / ndf 110 / 93
p0 −224.8 ± 104.4
6000
4000
2000
0
−2000
−4000
pull
Entries 94
Mean −51.19
Std Dev 0
2
1
0
−1
−2
−3

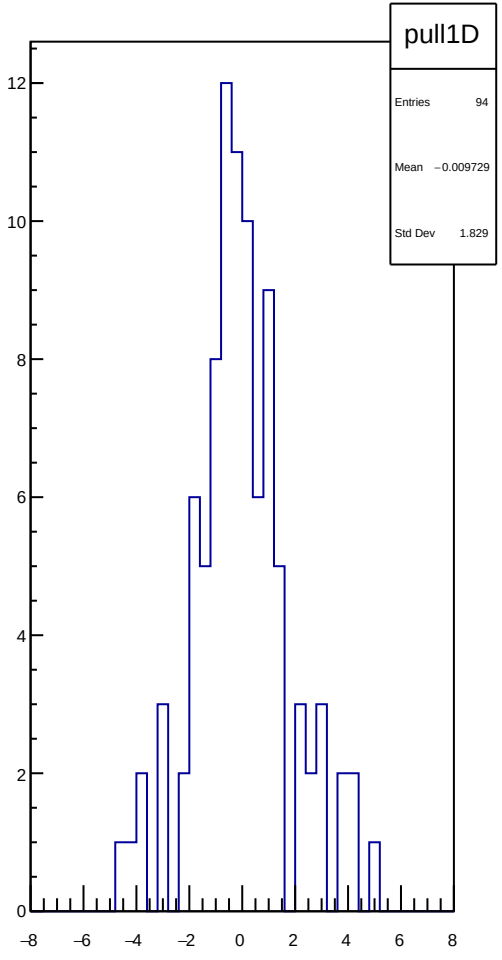

pull1D
Entries 94
Mean 0.02665
Std Dev 1.081
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

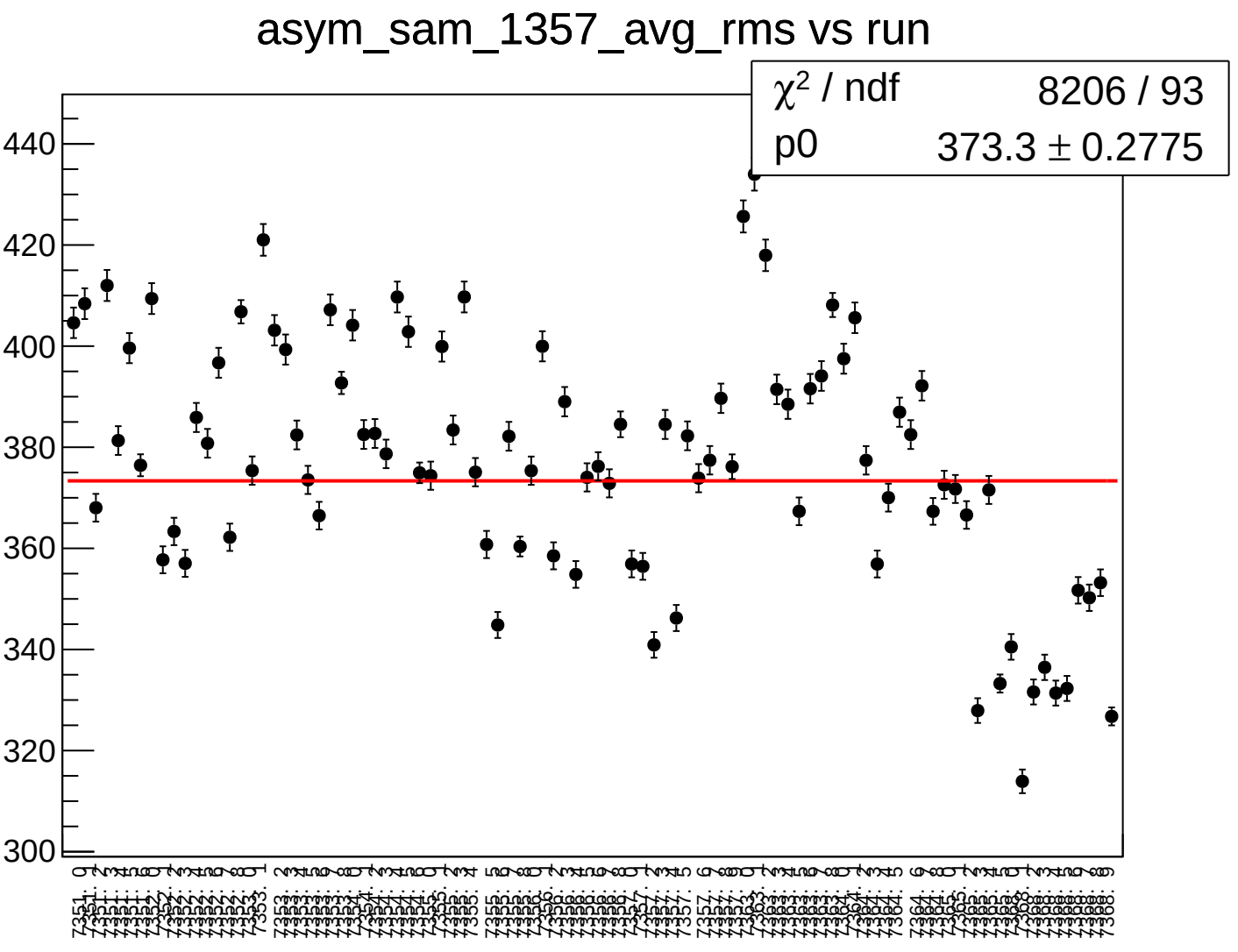

eigen_dit_asym_sam_1357_avg_rms vs run
χ^2 / ndf 5.273e+04 / 93
p0 98.11 ± 0.07383
220
200
180
160
140
120
100
80
60

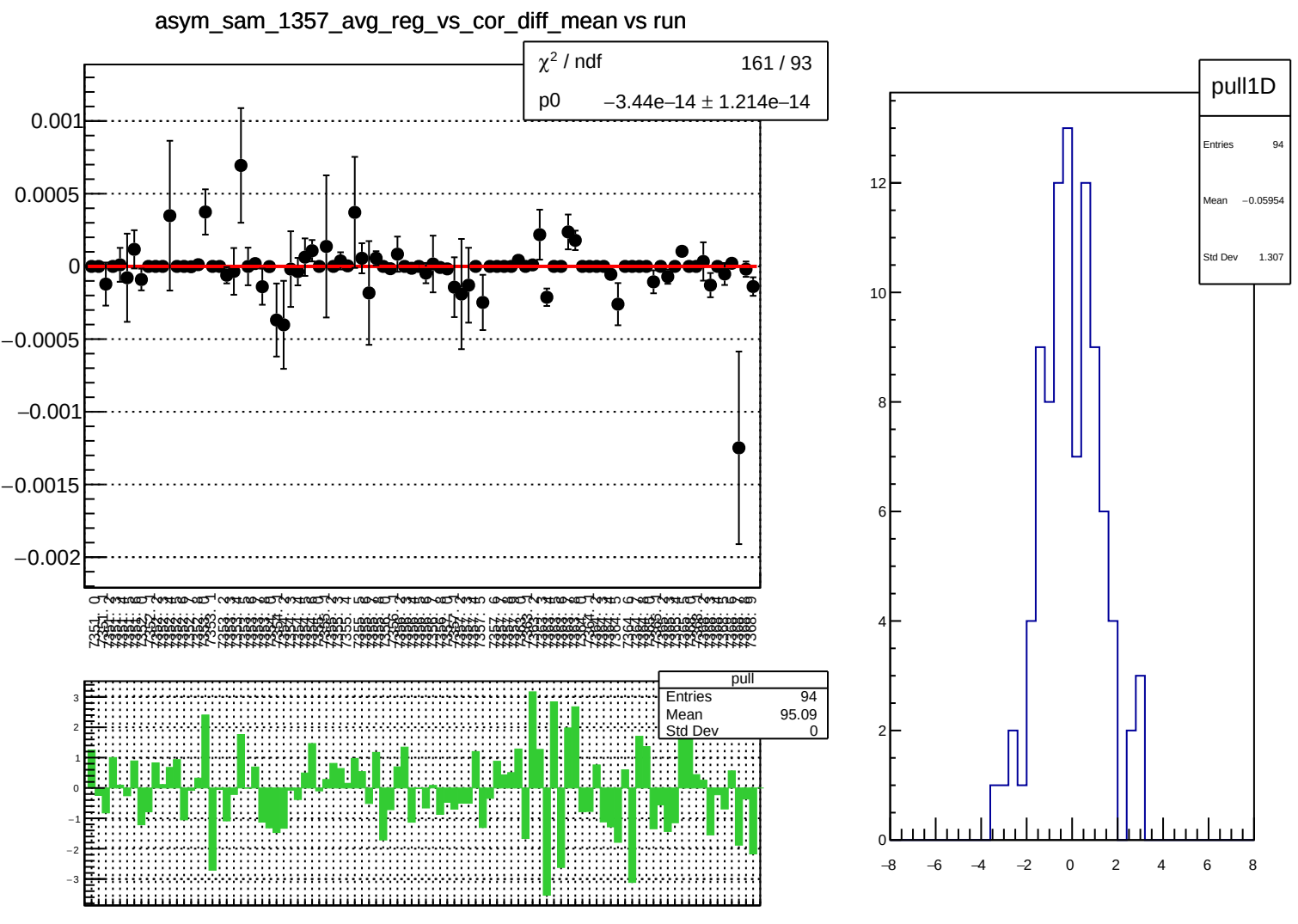

asym_sam_1357_avg_eigen_dit_correction_mean vs run
χ² / ndf 298.7 / 93
p0 394.3 ± 422.8
20000
10000
0
−10000
−20000
pull
Entries 94
Mean −1.468e+04
Std Dev 0
4
2
0
−2
−4
pull1D
Entries 94
Mean 0.0003647
Std Dev 1.783
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

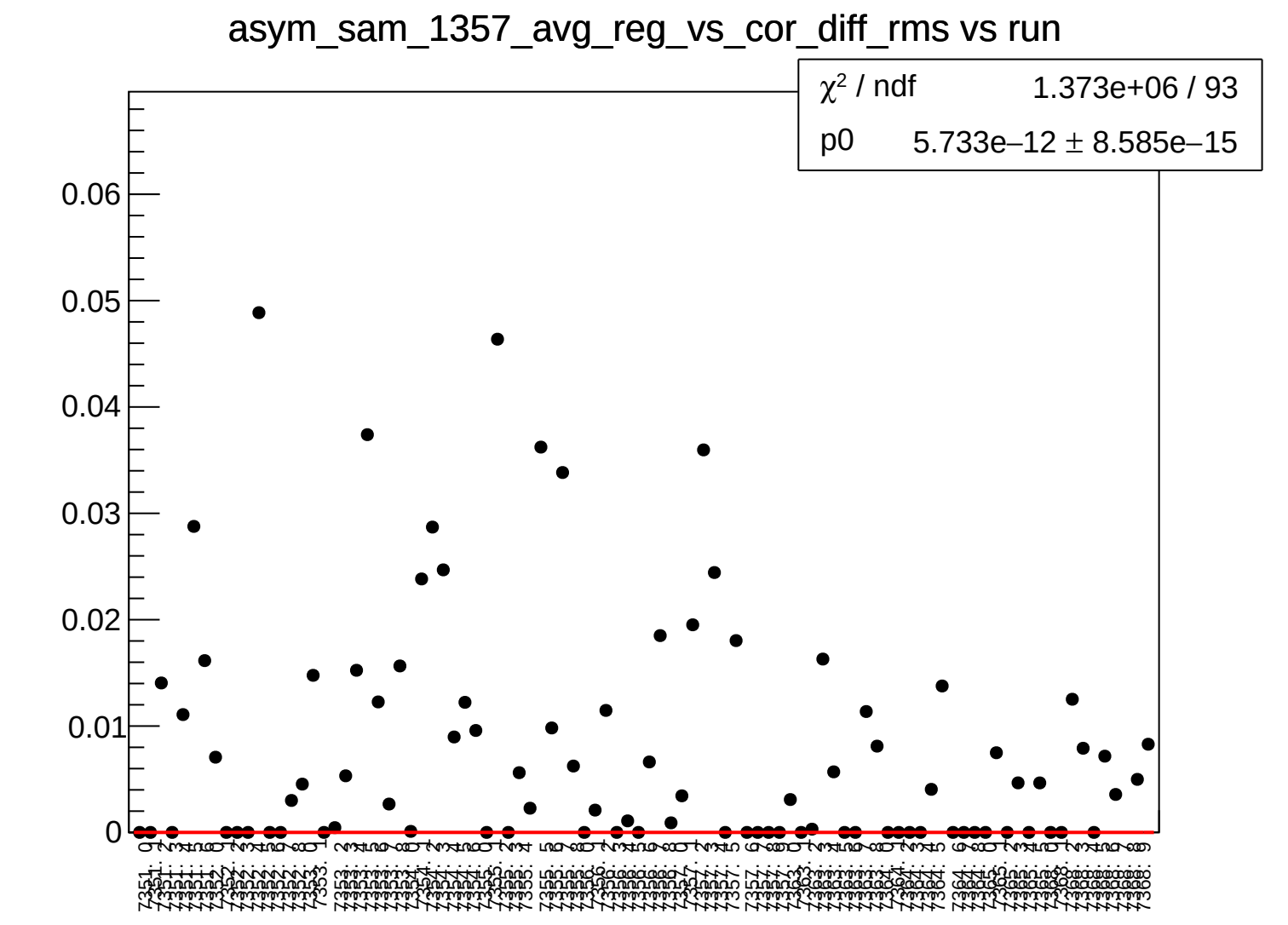

asym_sam_1357_avg_eigen_dit_correction_rms vs run
χ^2 / ndf 7956 / 93
p0 402.3 ± 0.299
480
460
440
420
400
380
360
340

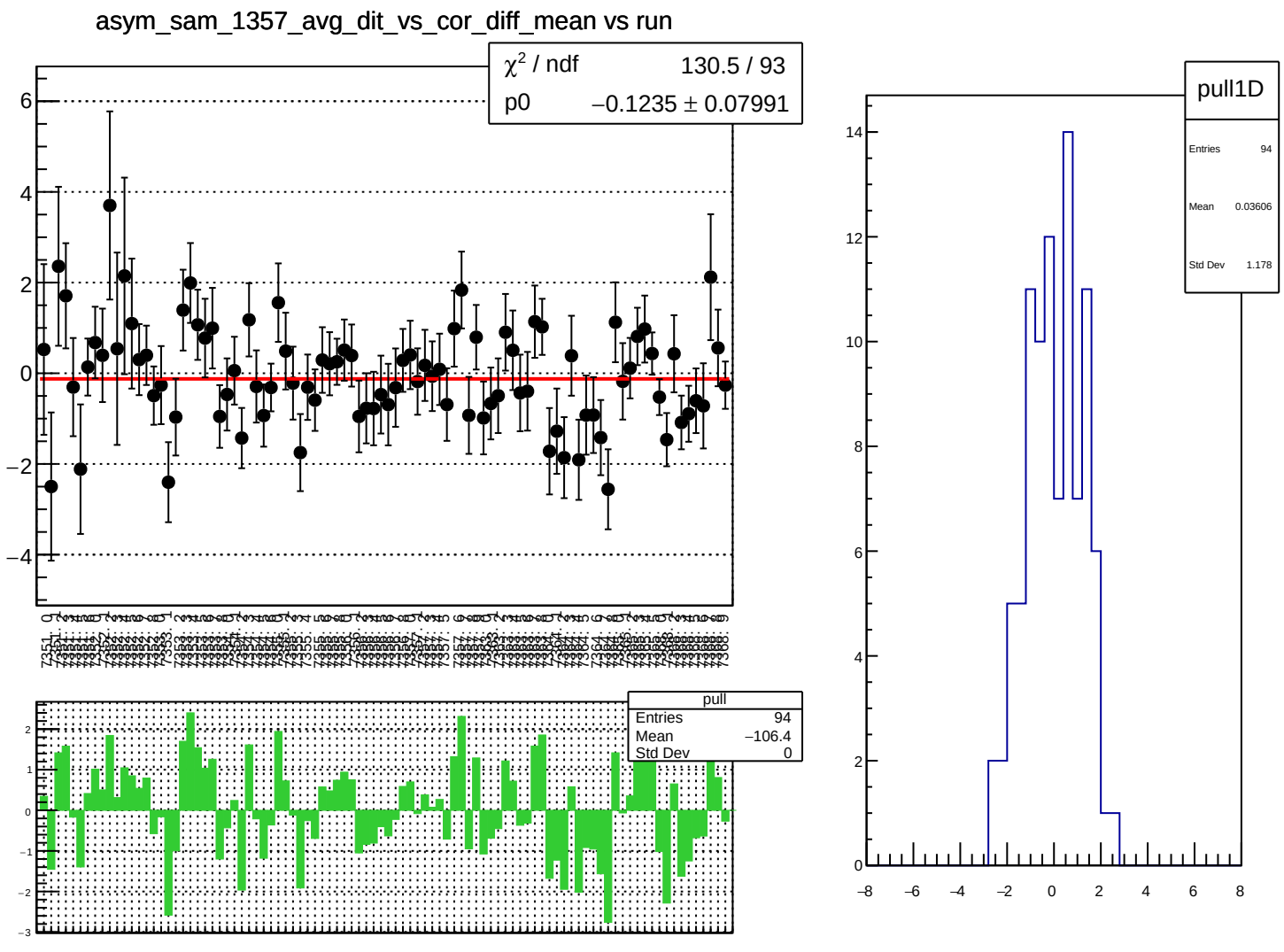

asym_sam_1357_avg_mean vs run
χ² / ndf 314.3 / 93
p0 −450.8 ± 392.4
20000
10000
0
−10000
−20000
pull
Entries 94
Mean −474.1
Std Dev 0
4
2
0
−2
−4

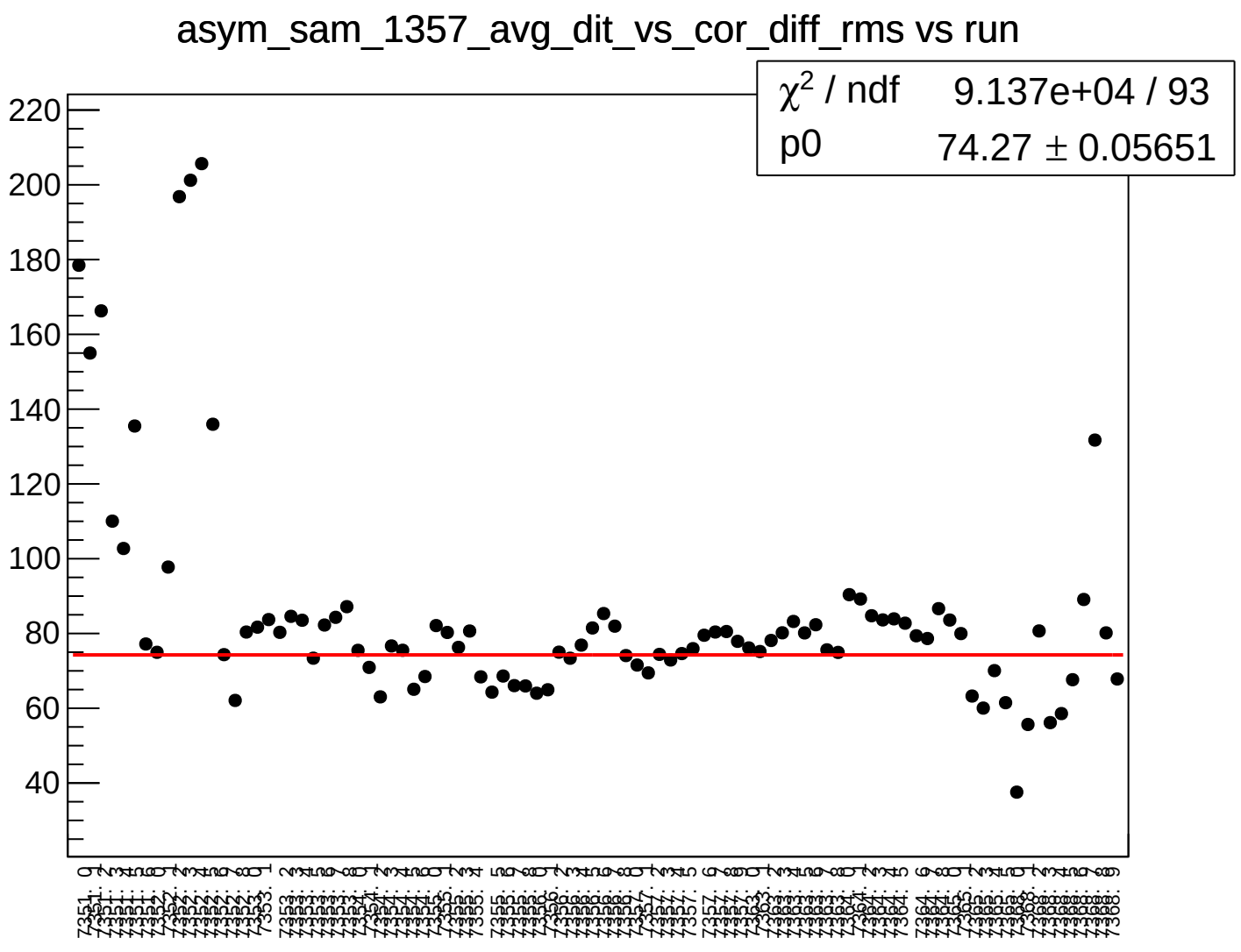

pull1D
Entries 94
Mean −0.009729
Std Dev 1.829
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

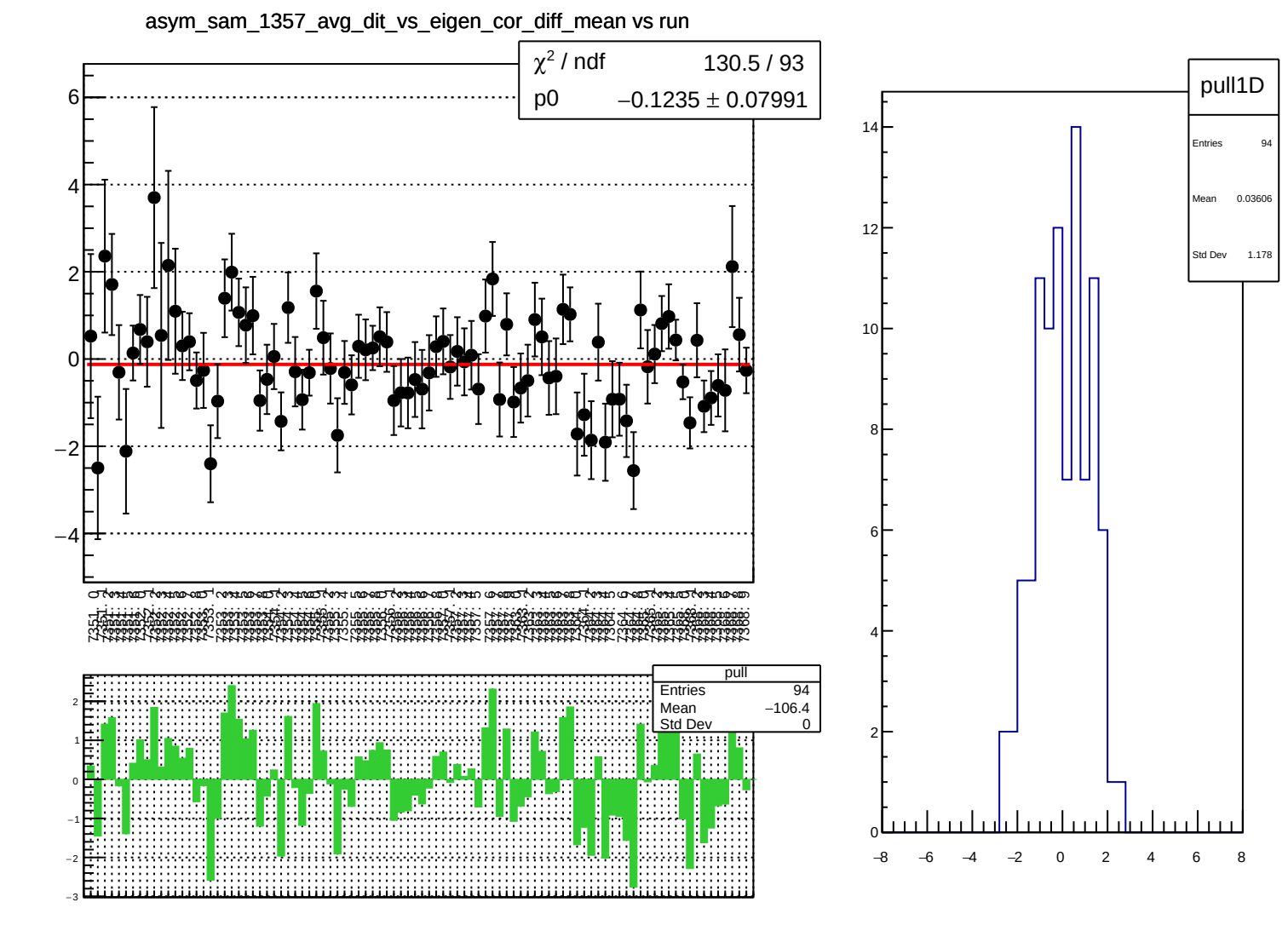

asym_sam_1357_avg_rms vs run
χ² / ndf 8206 / 93
p0 373.3 ± 0.2775
440
420
400
380
360
340
320
300

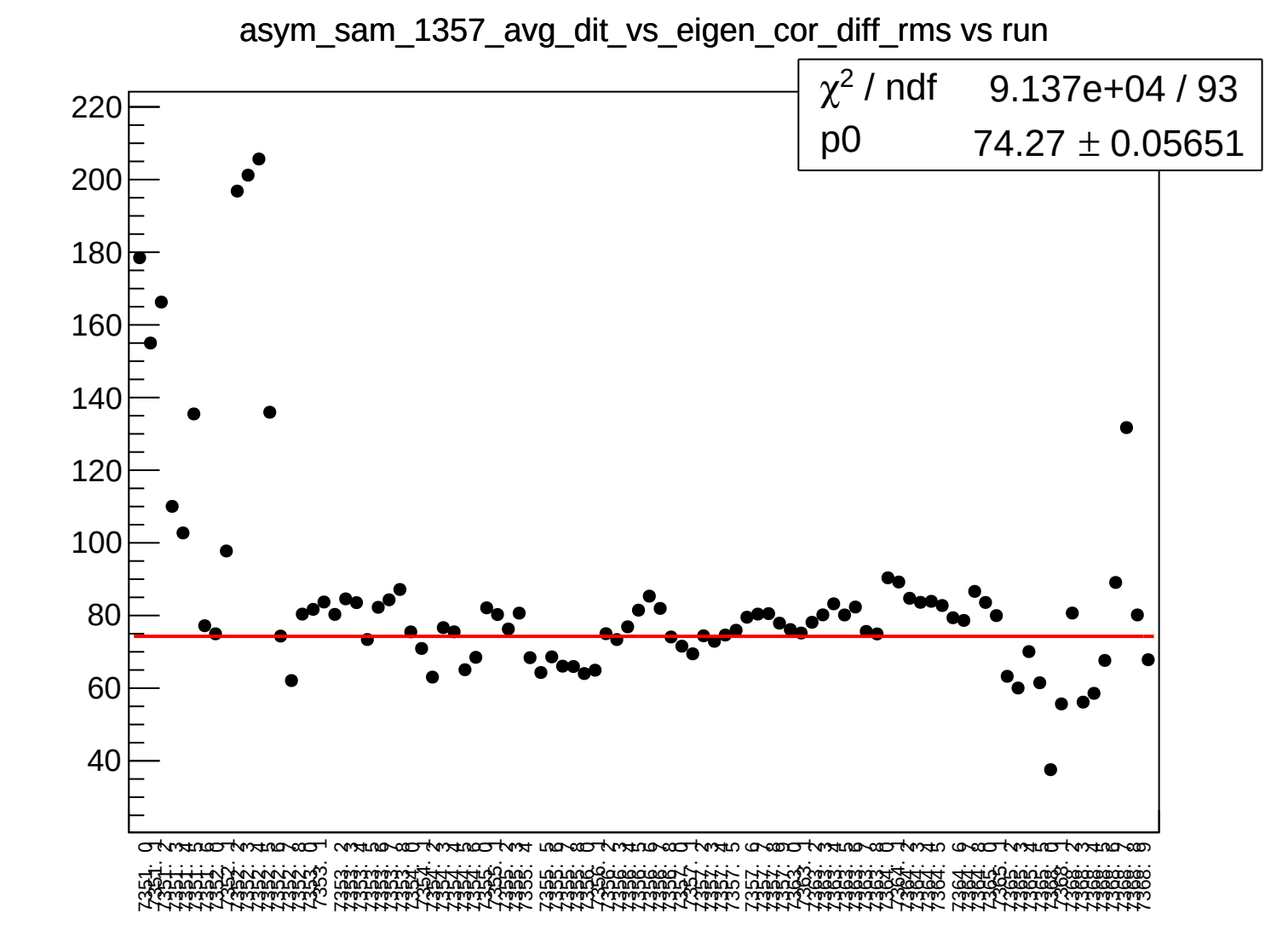

asym_sam_1357_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 161 / 93
p0 −3.44e−14 ± 1.214e−14
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 94
Mean 95.09
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.05954
Std Dev 1.307
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

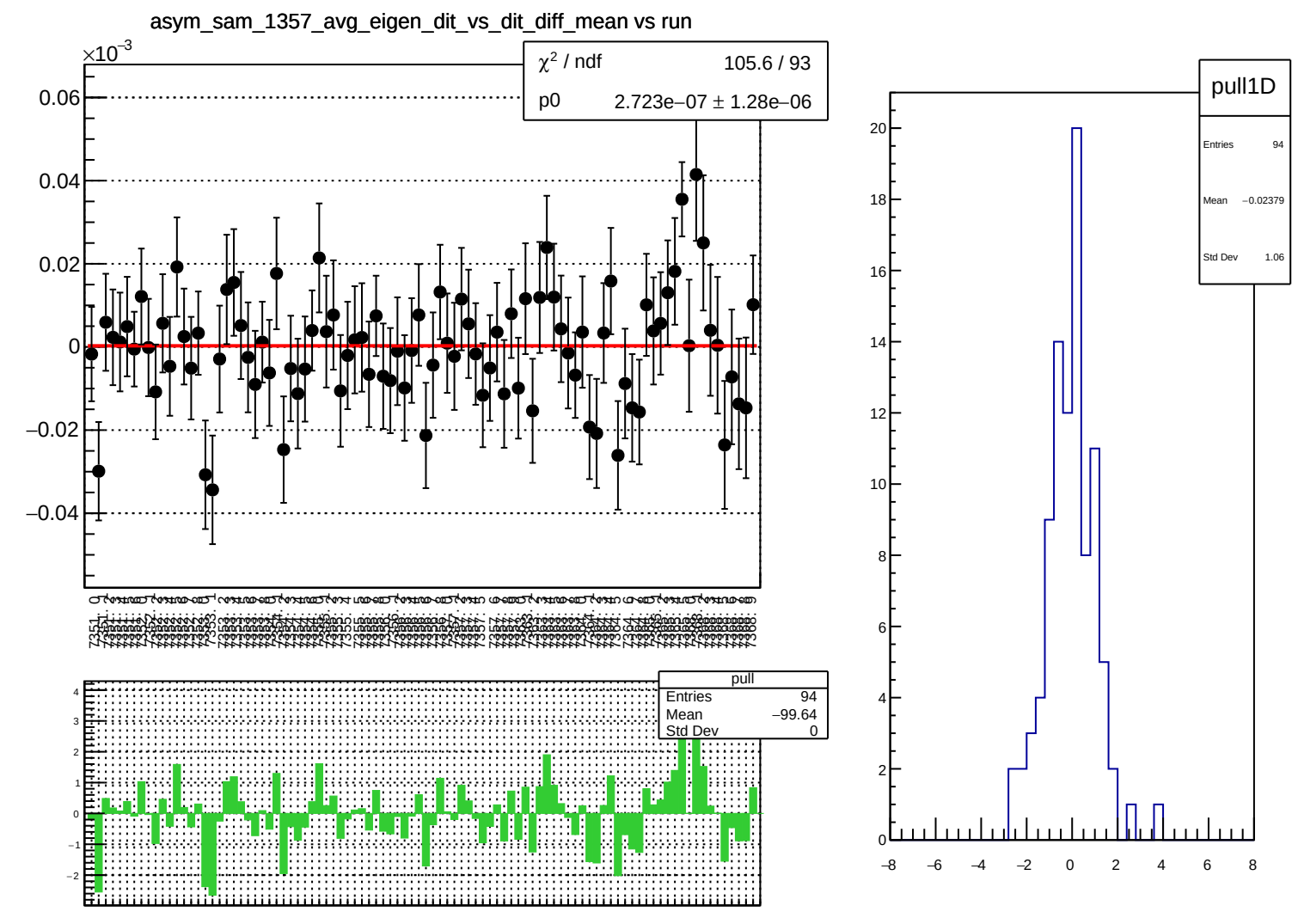

asym_sam_1357_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.373e+06 / 93
p0 5.733e−12 ± 8.585e−15
0.06
0.05
0.04
0.03
0.02
0.01
0

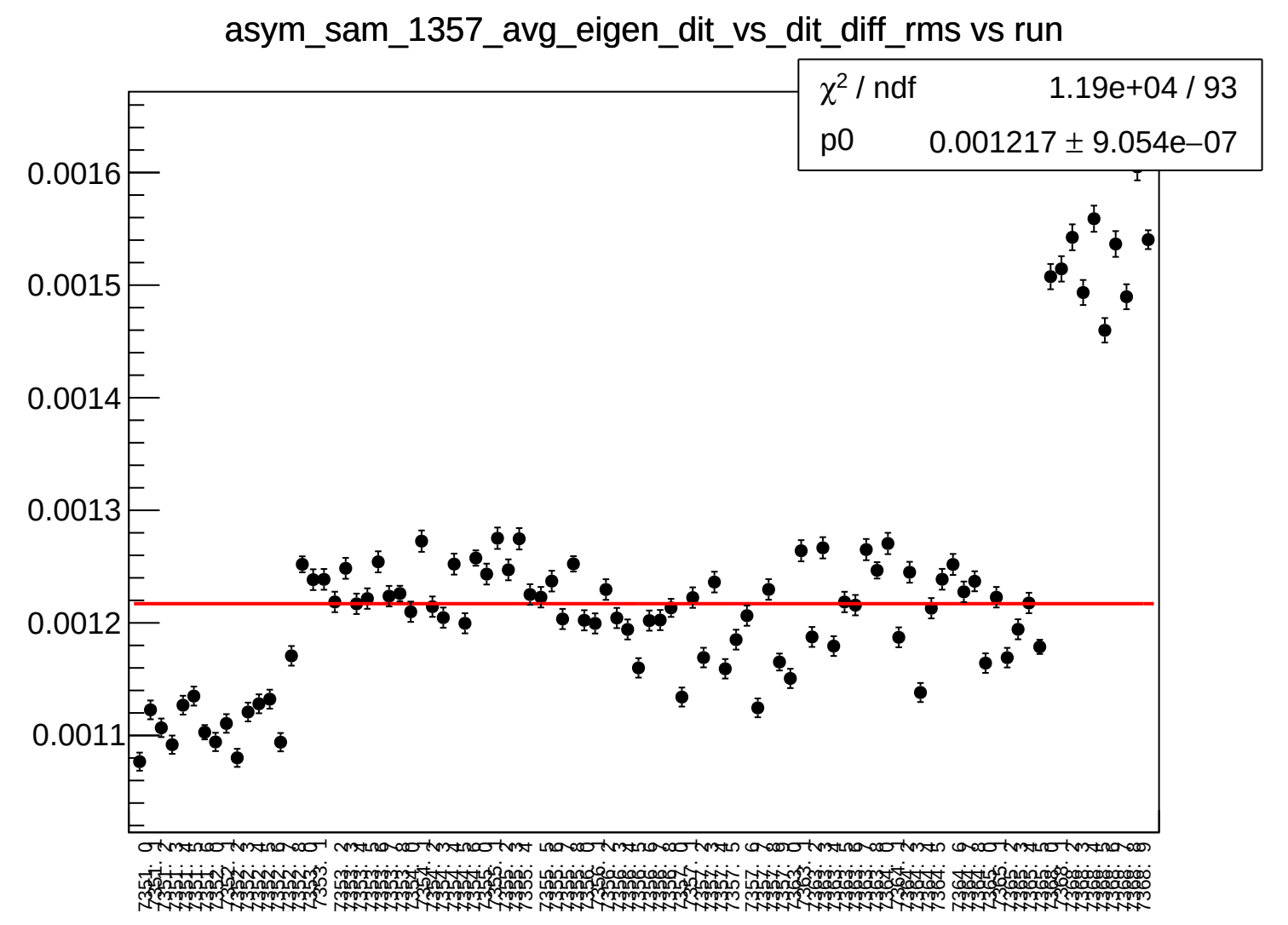

asym_sam_1357_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 130.5 / 93
p0 −0.1235 ± 0.07991
pull
Entries 94
Mean −106.4
Std Dev 0
pull1D
Entries 94
Mean 0.03606
Std Dev 1.178

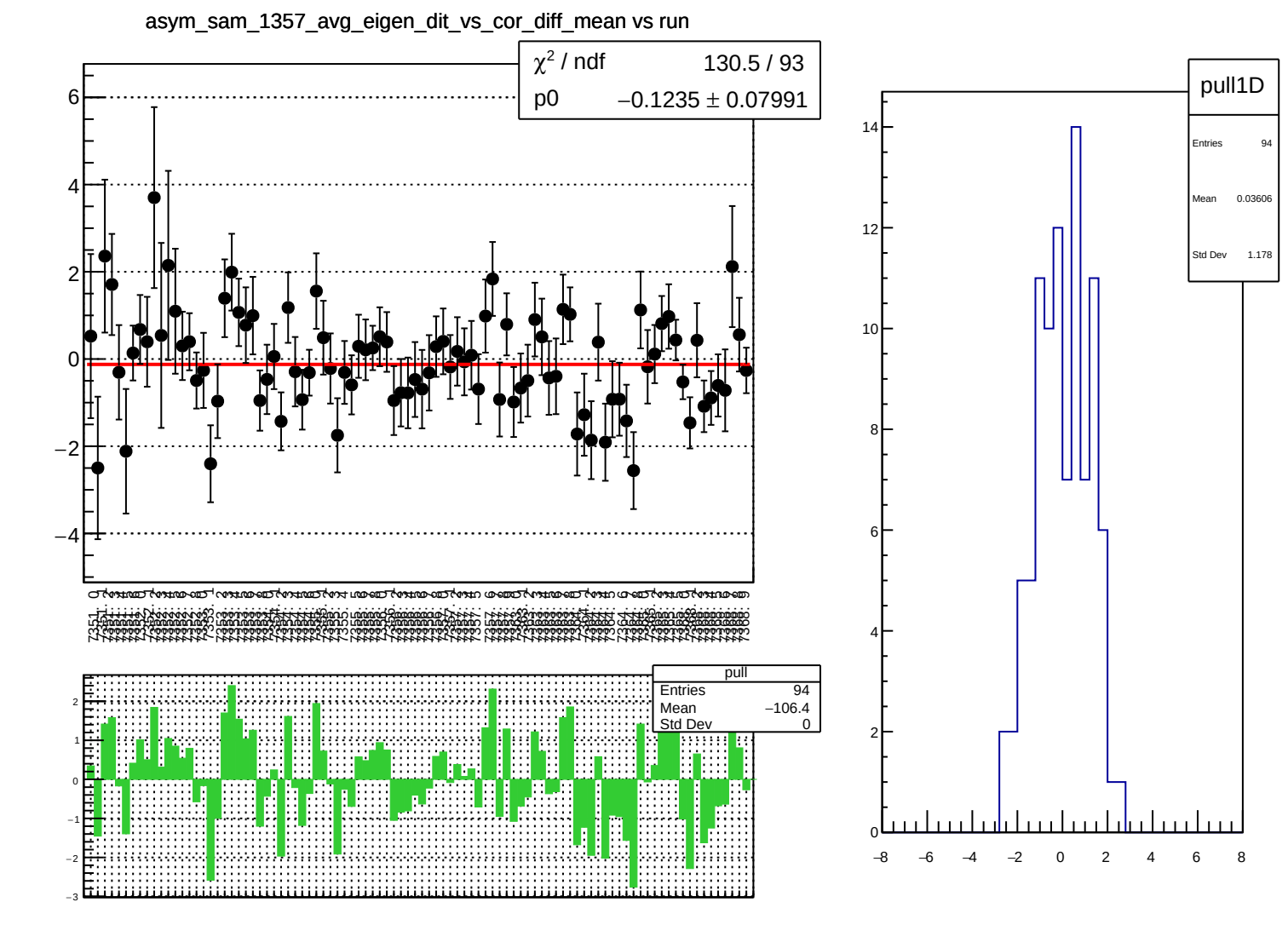

asym_sam_1357_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 9.137e+04 / 93
p0 74.27 ± 0.05651
220
200
180
160
140
120
100
80
60
40

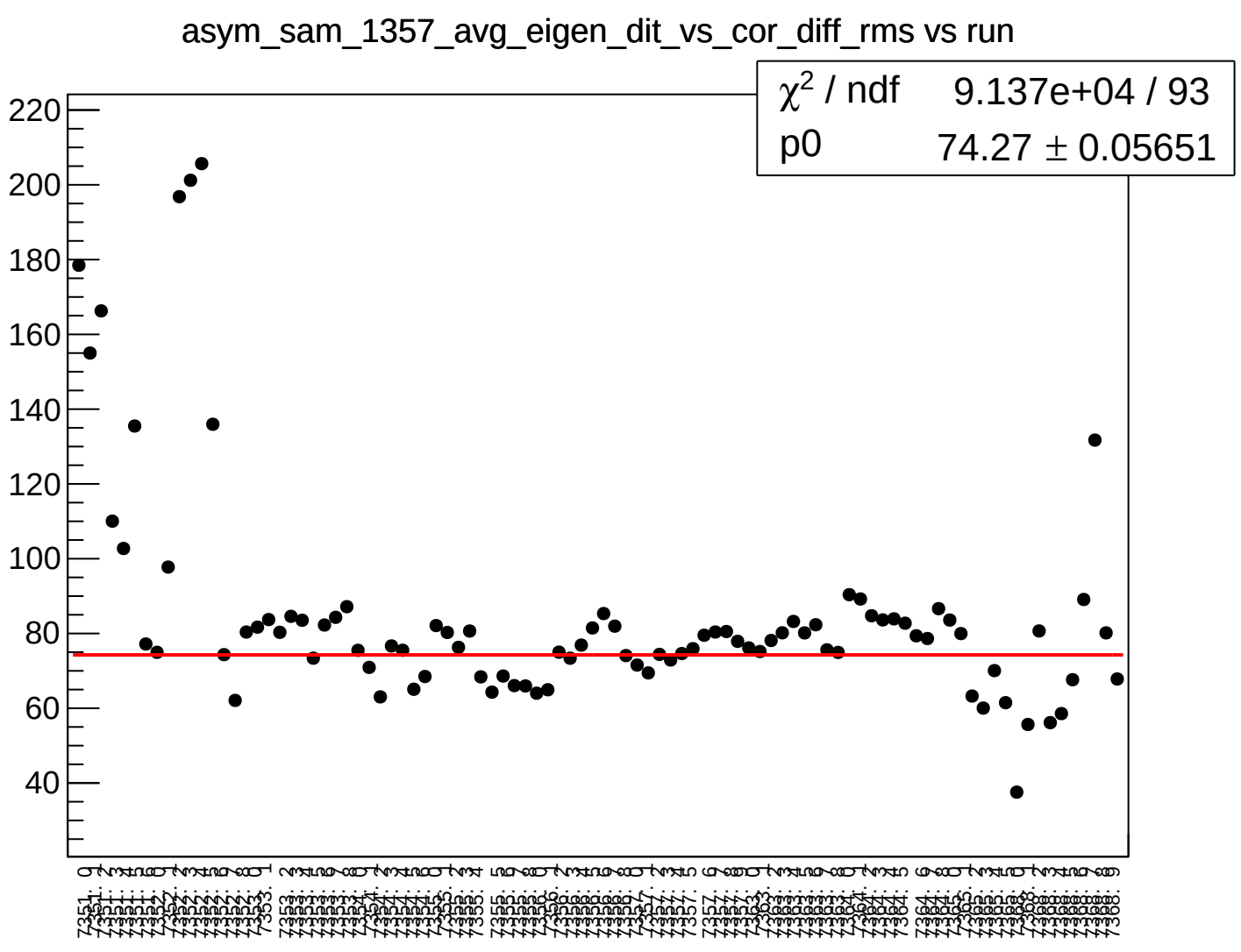

asym_sam_1357_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 130.5 / 93
p0 −0.1235 ± 0.07991
pull
Entries 94
Mean −106.4
Std Dev 0
pull1D
Entries 94
Mean 0.03606
Std Dev 1.178

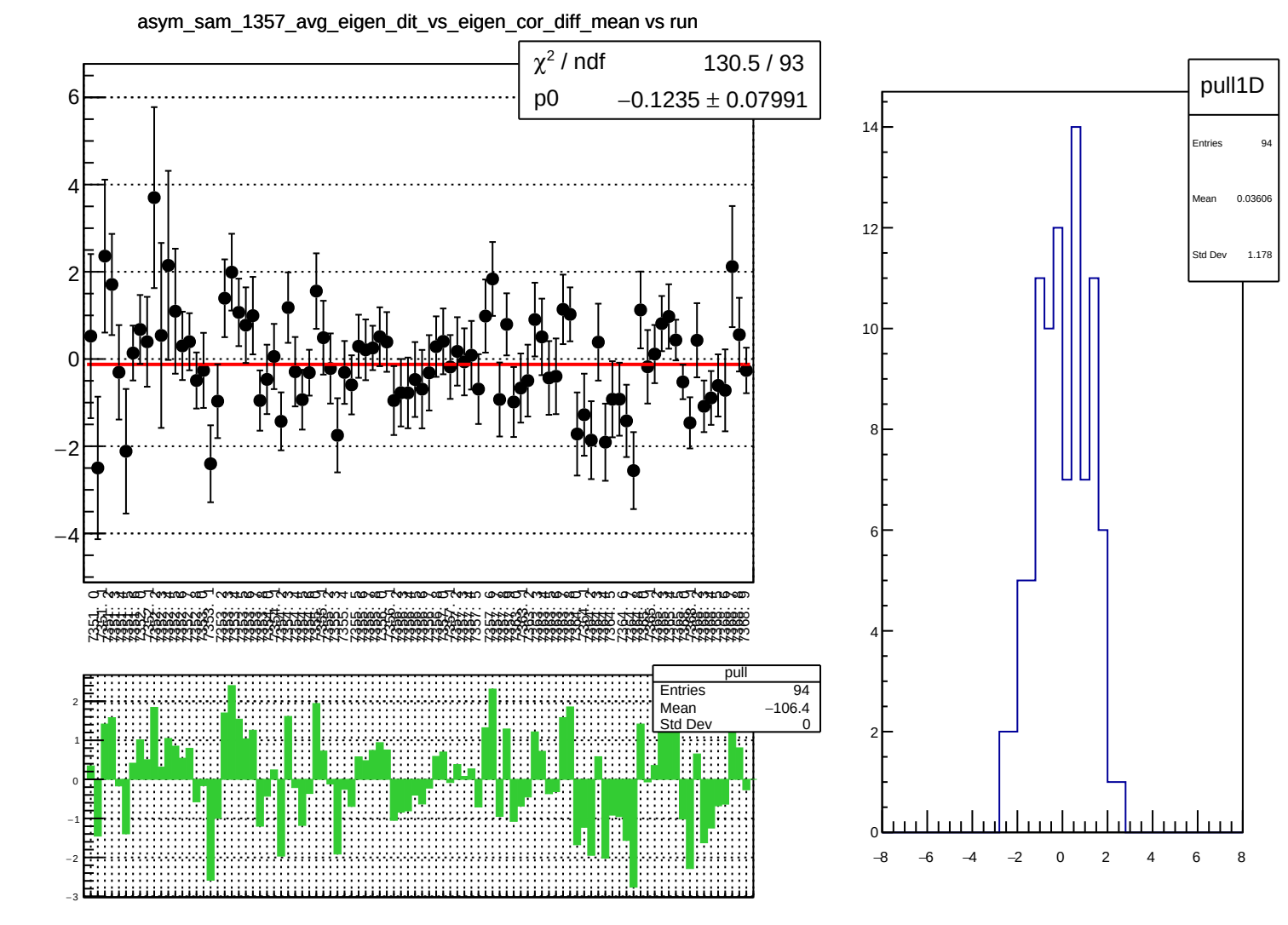

asym_sam_1357_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 9.137e+04 / 93
p0 74.27 ± 0.05651
220
200
180
160
140
120
100
80
60
40

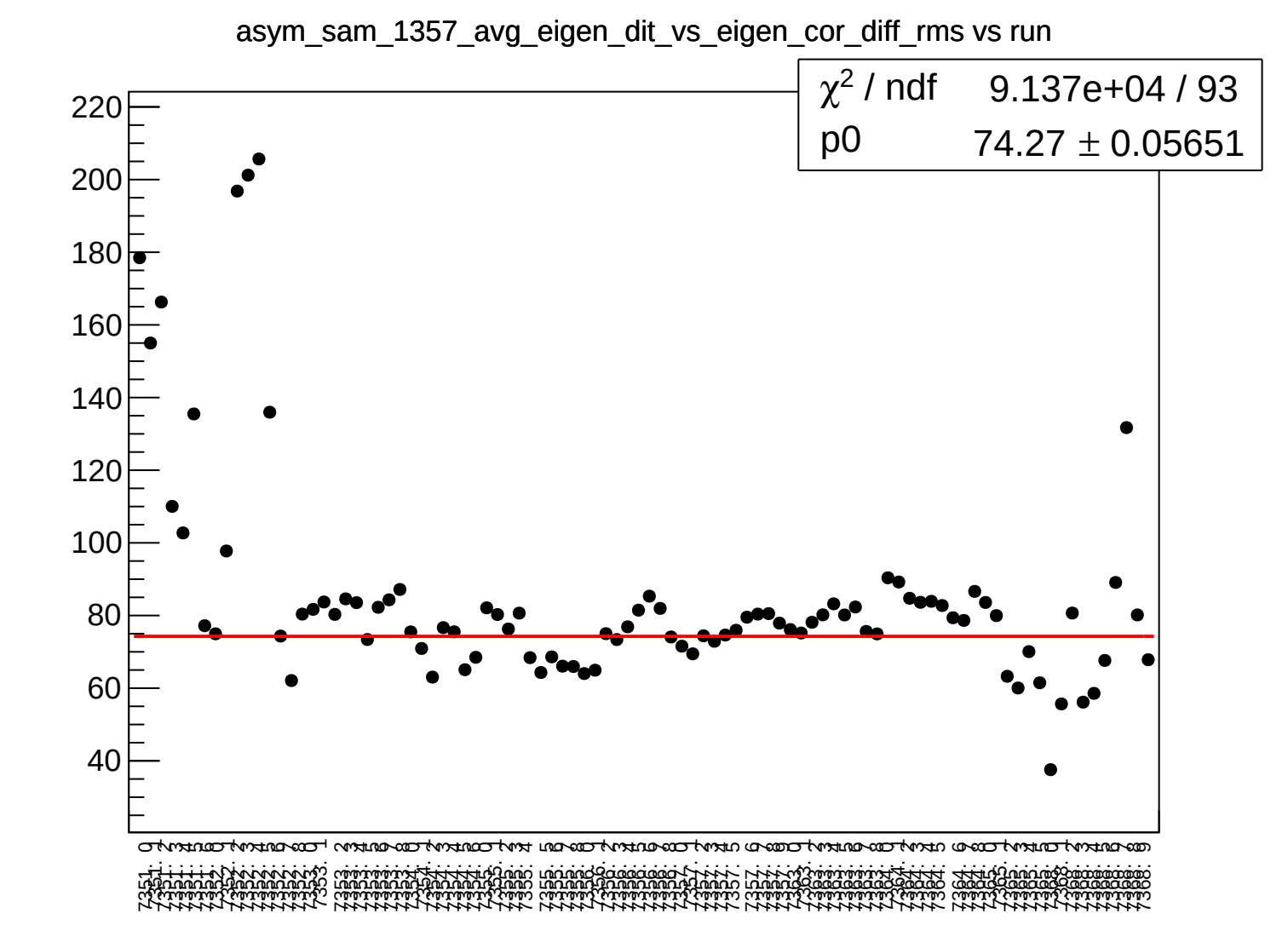

asym_sam_1357_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 105.6 / 93
p0 2.723e−07 ± 1.28e−06
0.06
0.04
0.02
0
−0.02
−0.04
pull
Entries 94
Mean −99.64
Std Dev 0
pull1D
Entries 94
Mean −0.02379
Std Dev 1.06

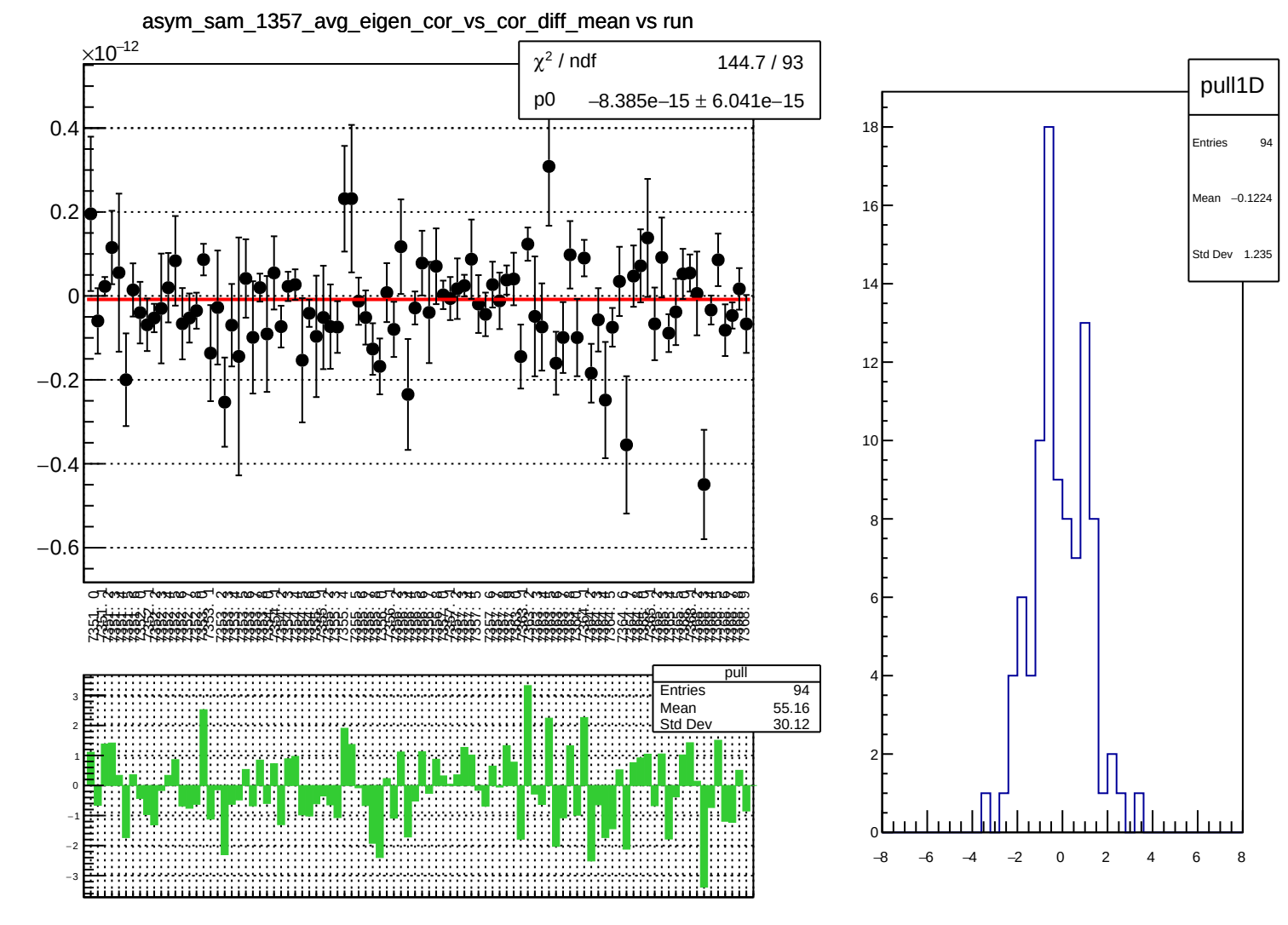

asym_sam_1357_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.19e+04 / 93
p0 0.001217 ± 9.054e−07
0.0016
0.0015
0.0014
0.0013
0.0012
0.0011

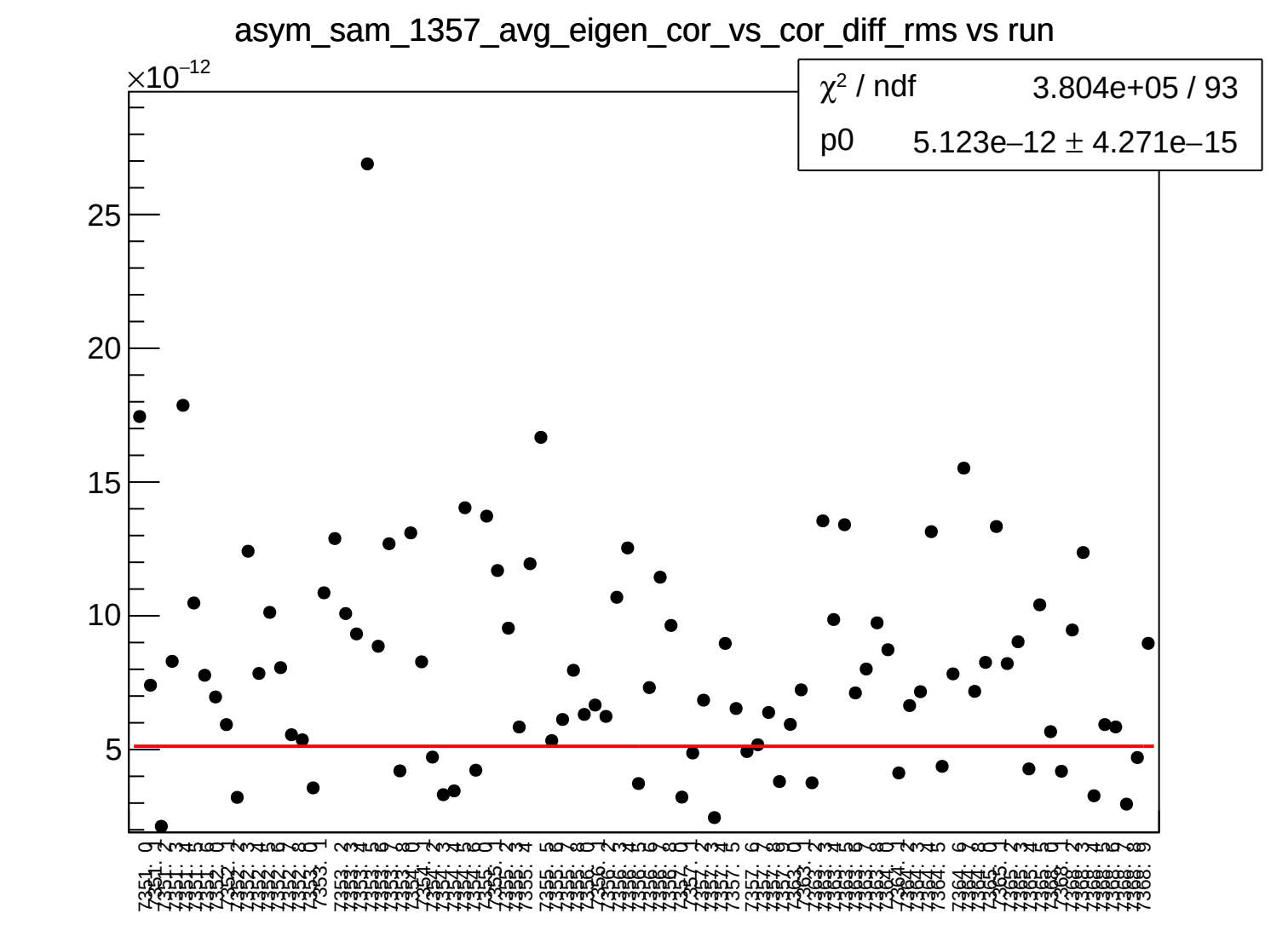

asym_sam_1357_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 130.5 / 93
p0 −0.1235 ± 0.07991
pull
Entries 94
Mean −106.4
Std Dev 0
pull1D
Entries 94
Mean 0.03606
Std Dev 1.178

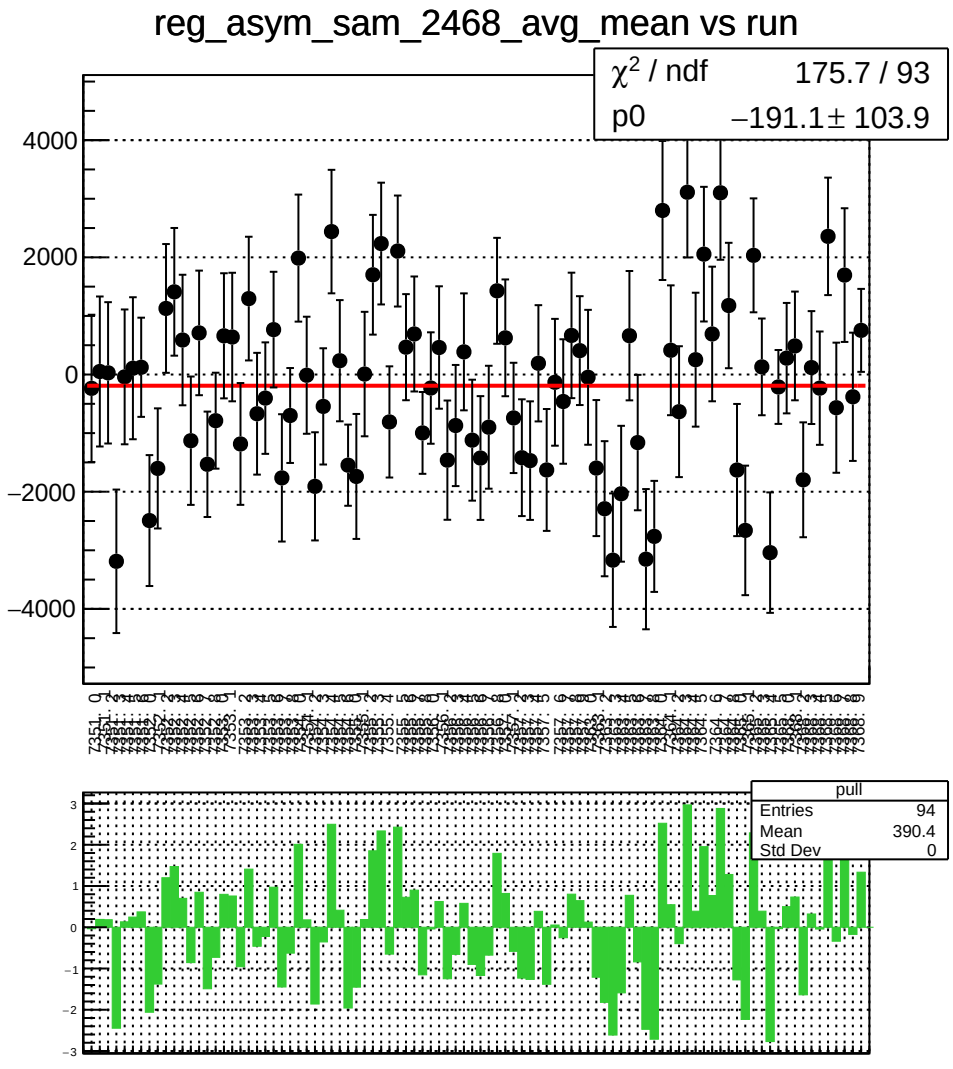

asym_sam_1357_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 9.137e+04 / 93
p0 74.27 ± 0.05651
220
200
180
160
140
120
100
80
60
40

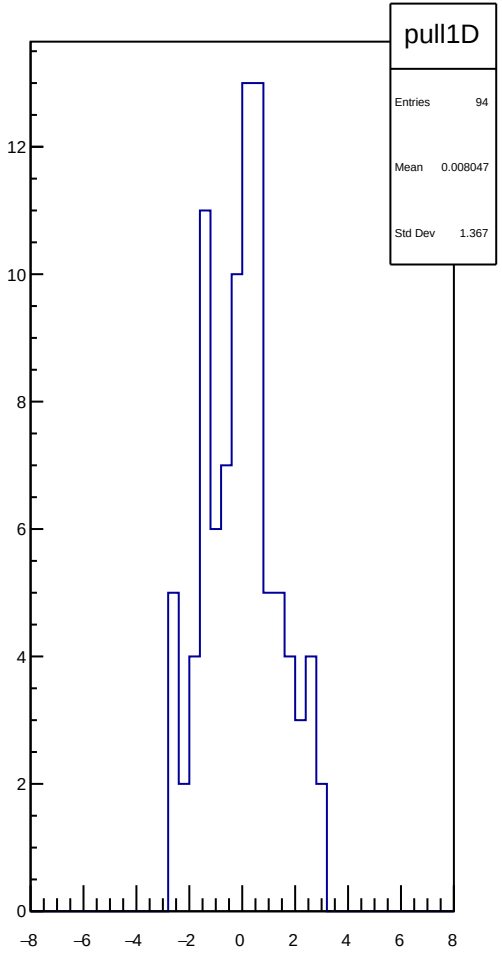

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 130.5 / 93
p0 −0.1235 ± 0.07991
pull
Entries 94
Mean −106.4
Std Dev 0
pull1D
Entries 94
Mean 0.03606
Std Dev 1.178

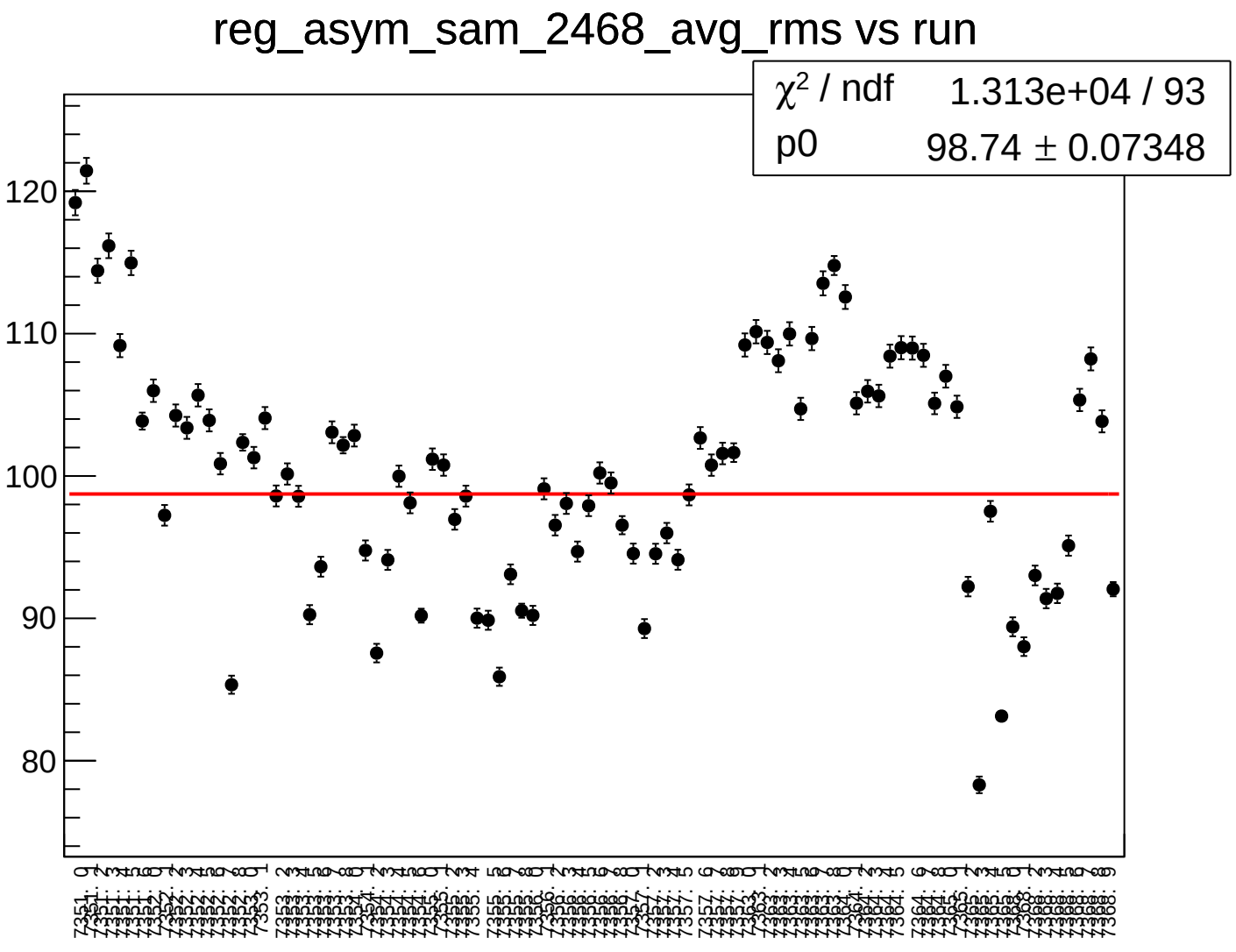

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 9.137e+04 / 93
p0 74.27 ± 0.05651
220
200
180
160
140
120
100
80
60
40

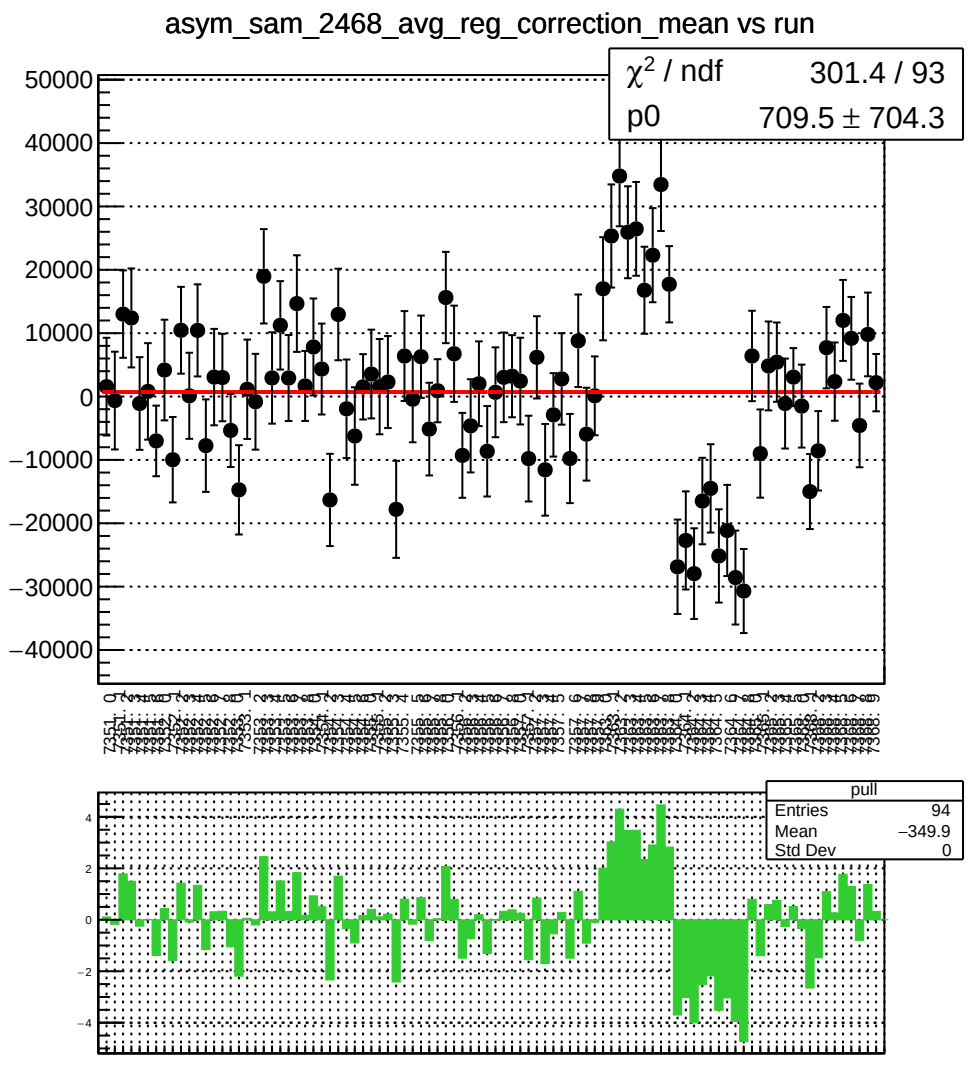

asym_sam_1357_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 144.7 / 93
p0 −8.385e−15 ± 6.041e−15
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 94
Mean 55.16
Std Dev 30.12
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.1224
Std Dev 1.235
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

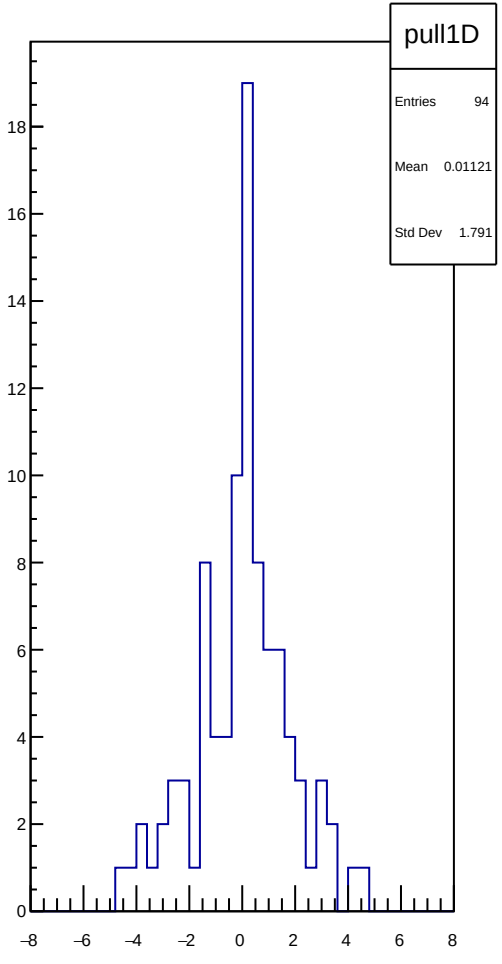

asym_sam_1357_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.804e+05 / 93
p0 5.123e−12 ± 4.271e−15
25
20
15
10
5

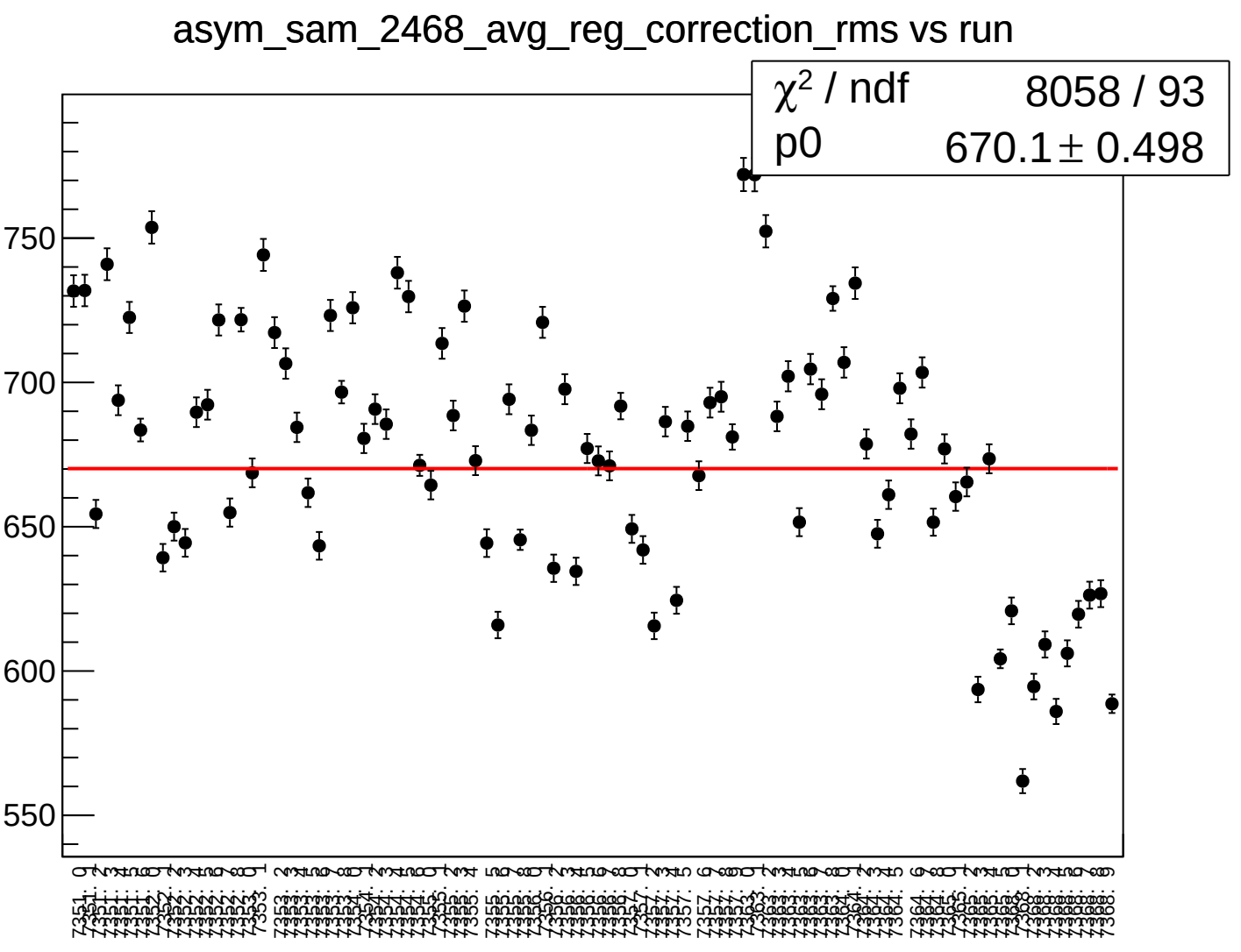

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 175.7 / 93
p0 −191.1± 103.9
4000
2000
0
−2000
−4000
pull
Entries 94
Mean 390.4
Std Dev 0
3
2
1
0
−1
−2
−3

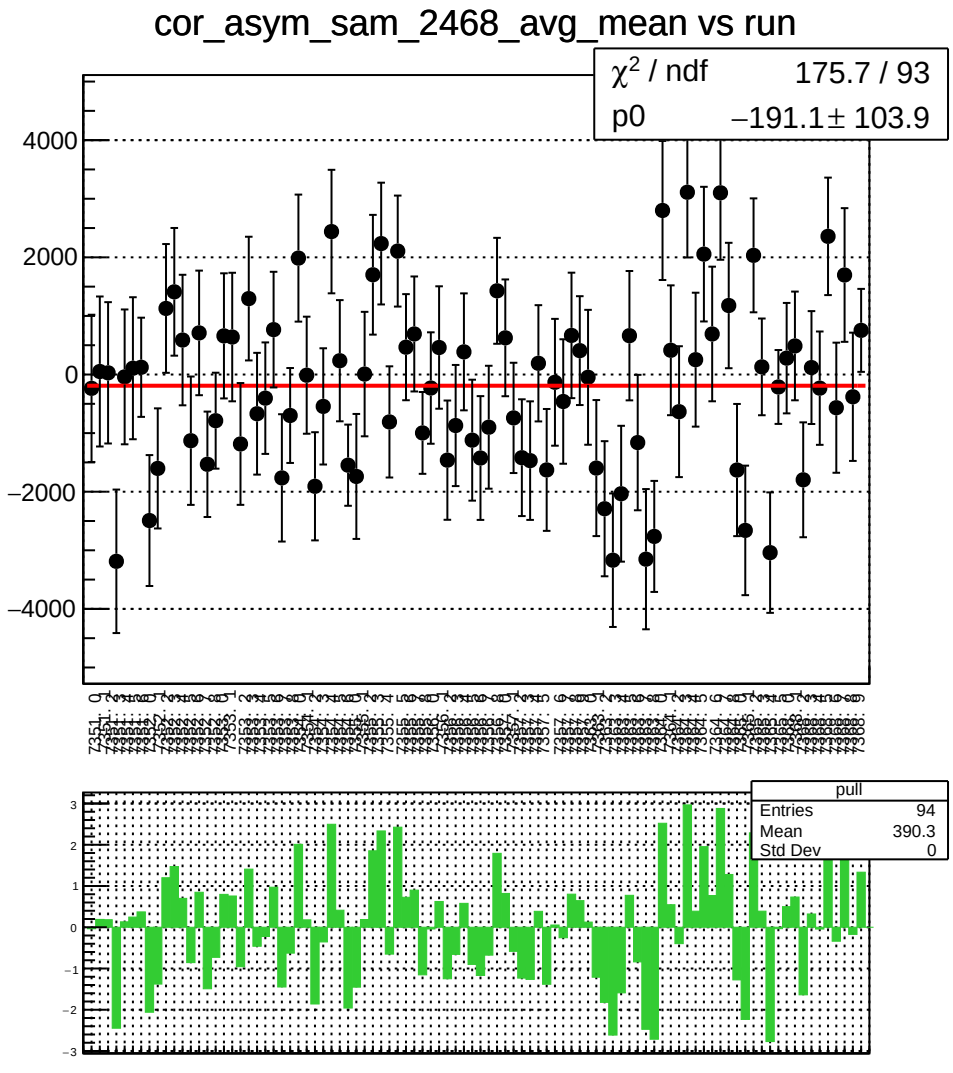

pull1D
Entries 94
Mean 0.008047
Std Dev 1.367
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

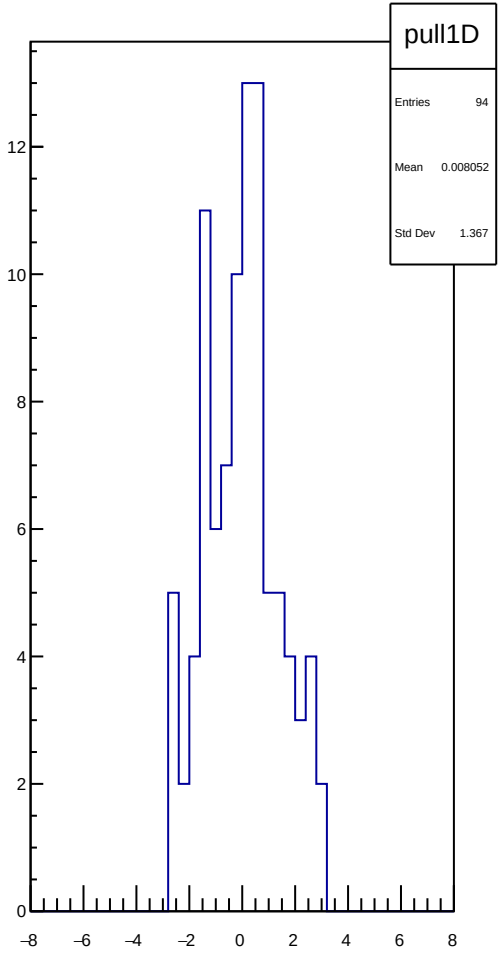

reg_asym_sam_2468_avg_rms vs run
χ² / ndf 1.313e+04 / 93
p0 98.74 ± 0.07348
120
110
100
90
80

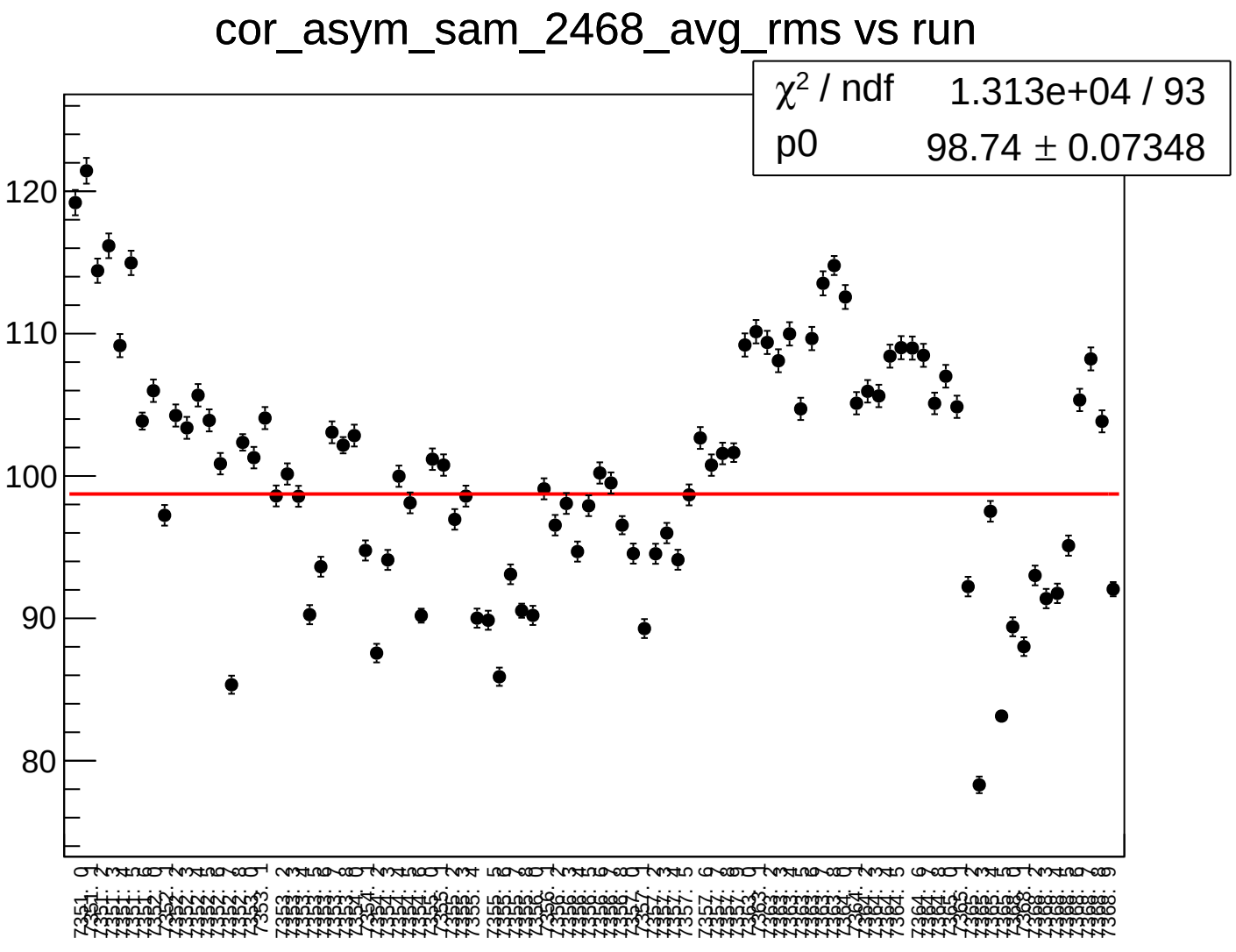

asym_sam_2468_avg_reg_correction_mean vs run
χ² / ndf 301.4 / 93
p0 709.5 ± 704.3
pull
Entries 94
Mean −349.9
Std Dev 0

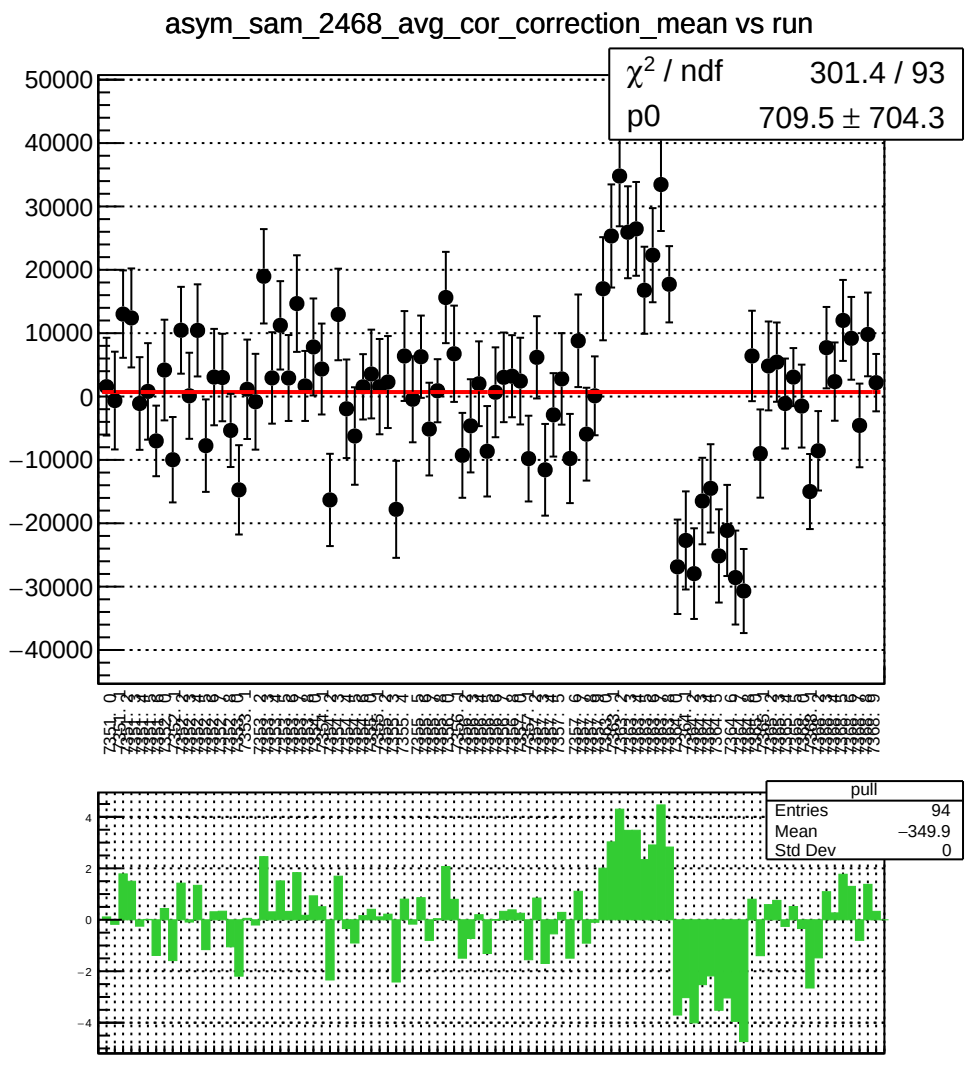

pull1D
Entries 94
Mean 0.01121
Std Dev 1.791

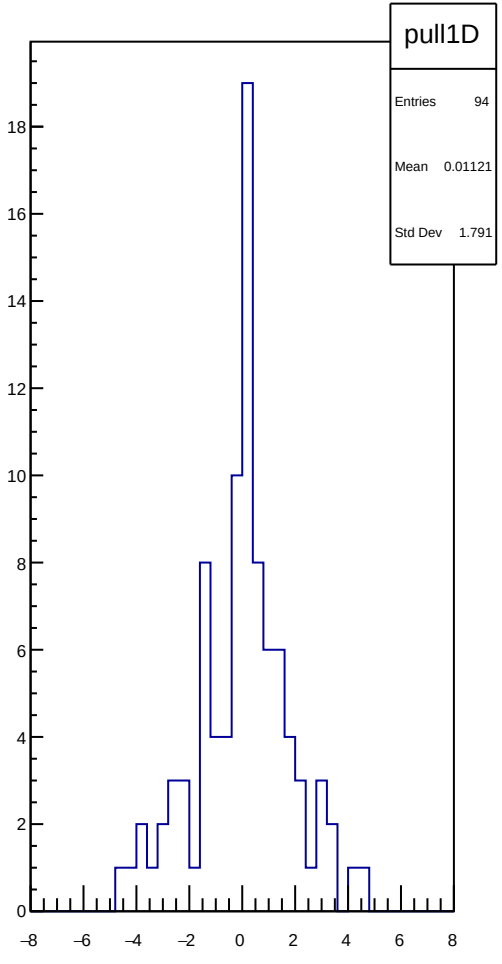

asym_sam_2468_avg_reg_correction_rms vs run
χ² / ndf 8058 / 93
p0 670.1 ± 0.498
750
700
650
600
550

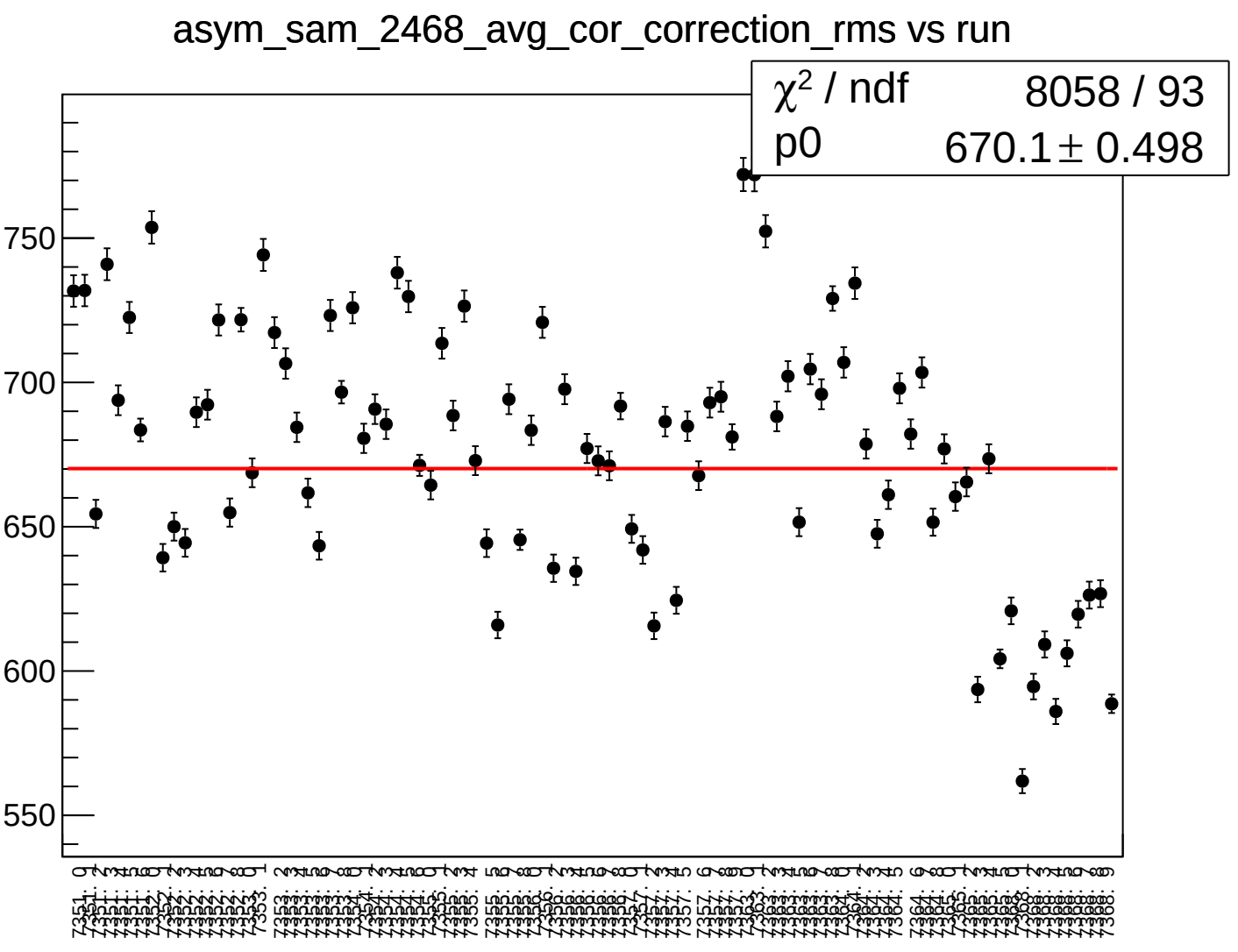

cor_asym_sam_2468_avg_mean vs run
χ² / ndf 175.7 / 93
p0 −191.1± 103.9
4000
2000
0
−2000
−4000
pull
Entries 94
Mean 390.3
Std Dev 0
3
2
1
0
−1
−2
−3

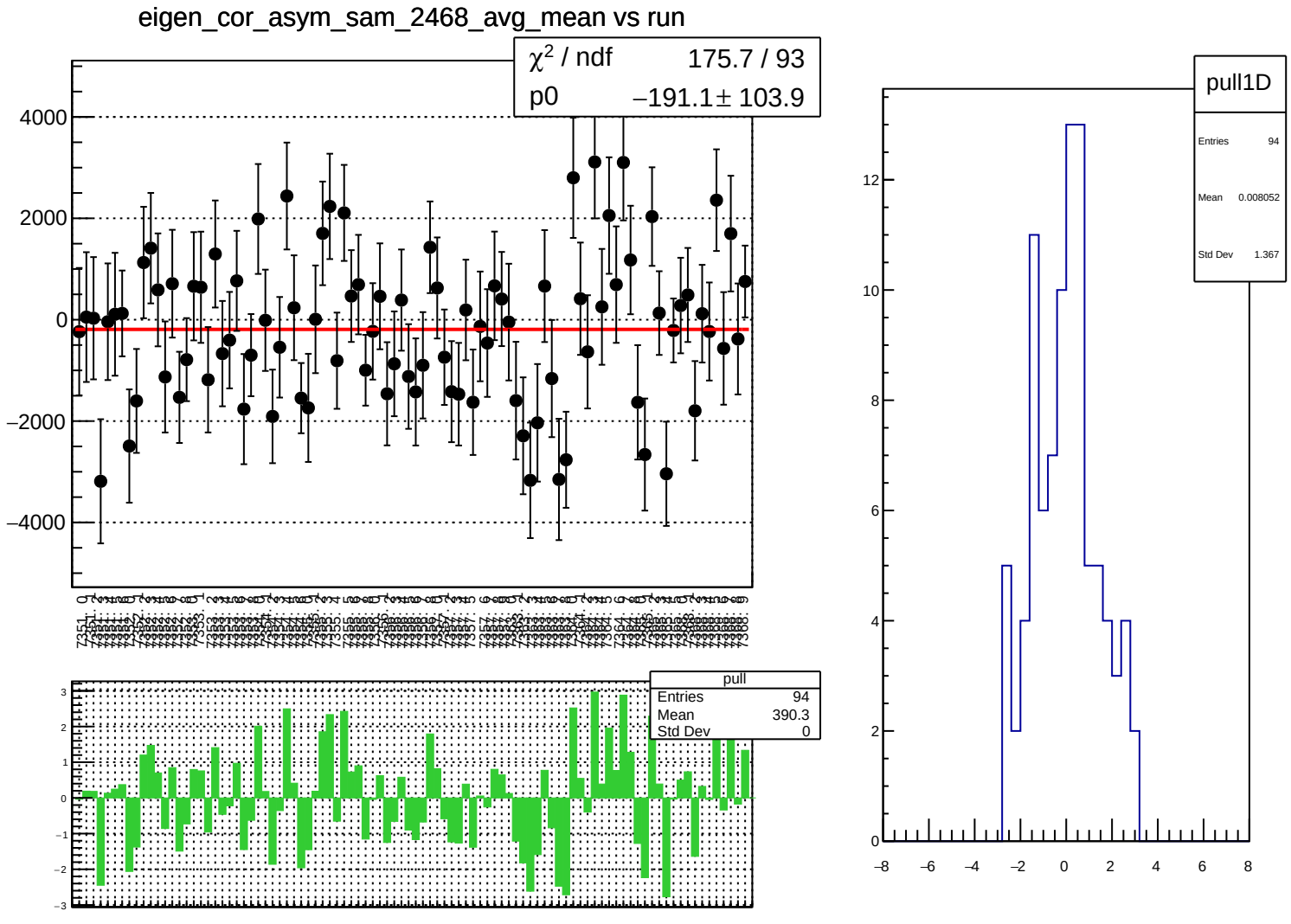

pull1D
Entries 94
Mean 0.008052
Std Dev 1.367
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

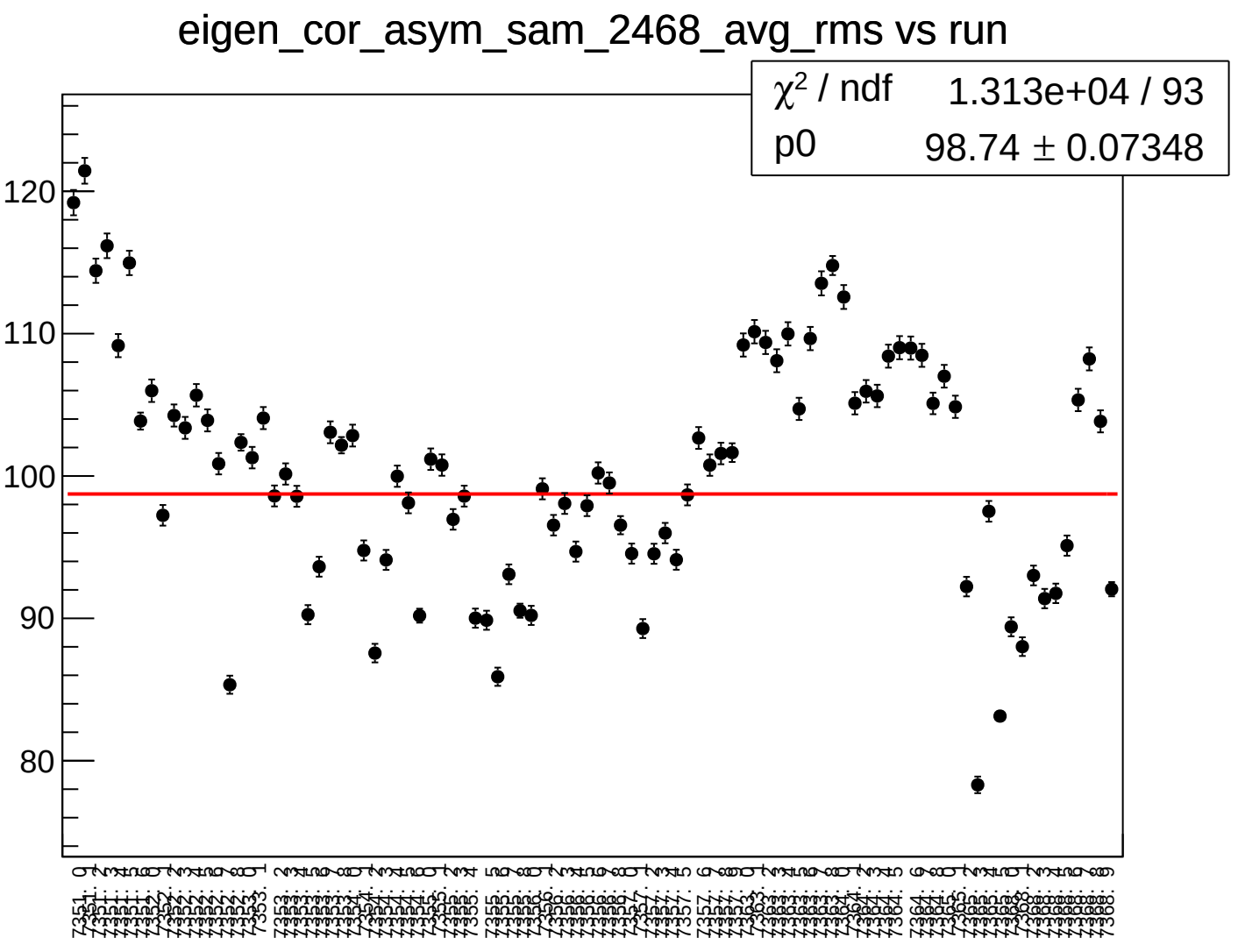

cor_asym_sam_2468_avg_rms vs run
χ^2 / ndf 1.313e+04 / 93
p0 98.74 ± 0.07348
120
110
100
90
80

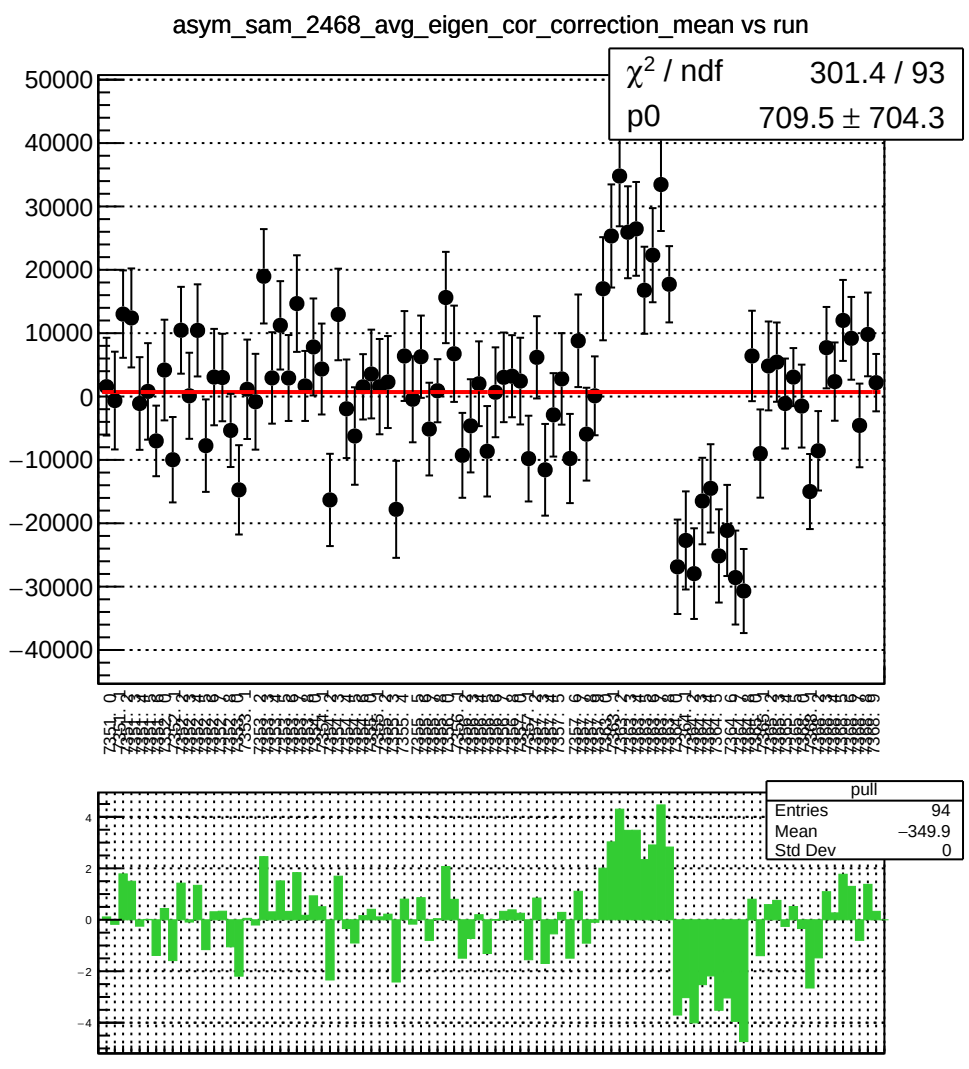

asym_sam_2468_avg_cor_correction_mean vs run
χ² / ndf 301.4 / 93
p0 709.5 ± 704.3
pull
Entries 94
Mean −349.9
Std Dev 0

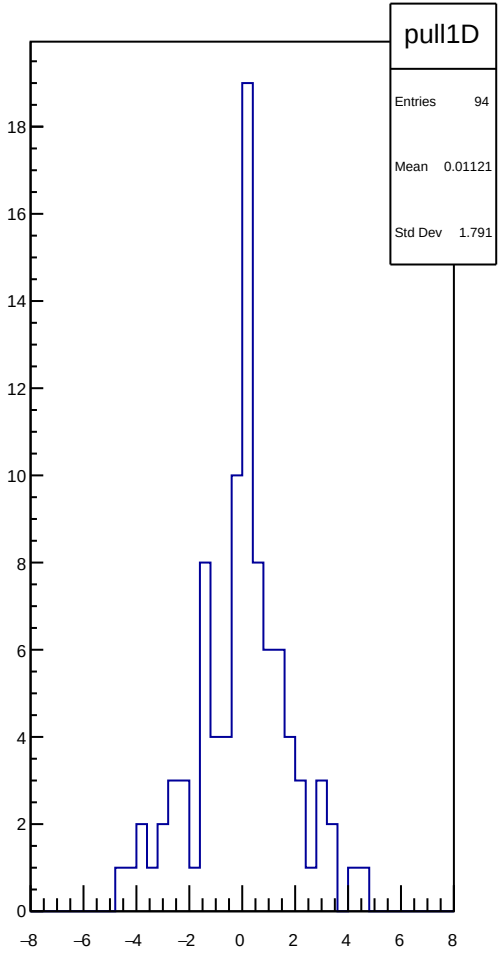

pull1D
Entries 94
Mean 0.01121
Std Dev 1.791

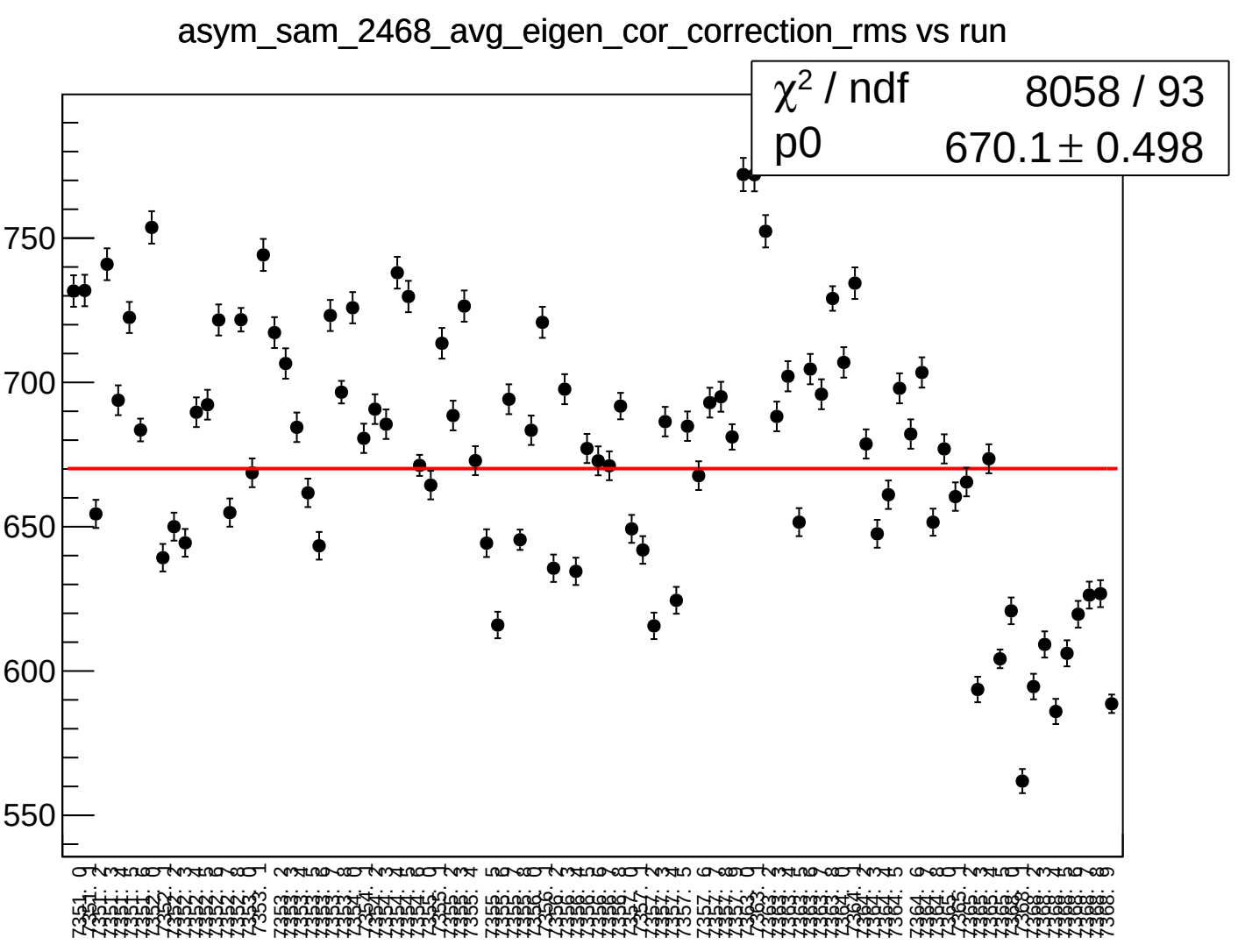

asym_sam_2468_avg_cor_correction_rms vs run
χ² / ndf 8058 / 93
p0 670.1 ± 0.498
750
700
650
600
550

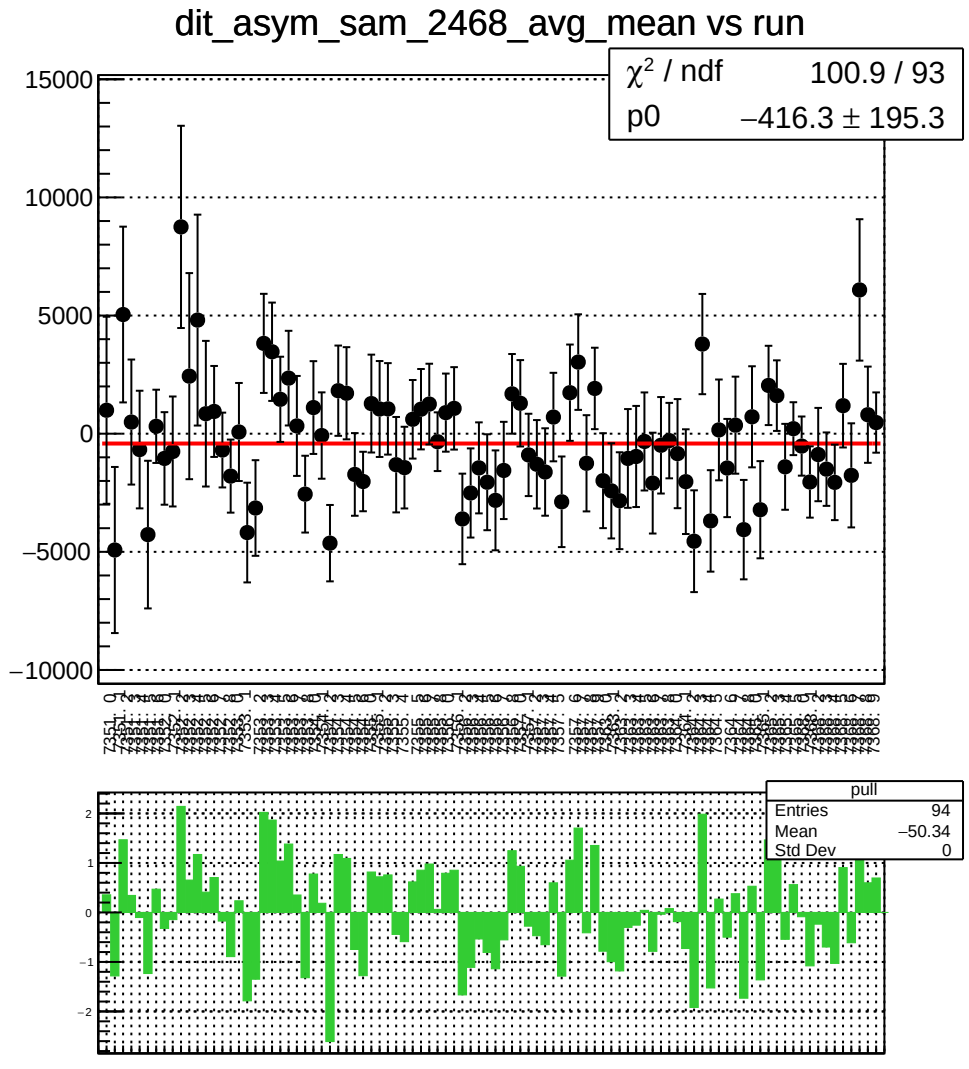

eigen_cor_asym_sam_2468_avg_mean vs run
χ² / ndf 175.7 / 93
p0 −191.1± 103.9
4000
2000
0
−2000
−4000
pull
Entries 94
Mean 390.3
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.008052
Std Dev 1.367
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

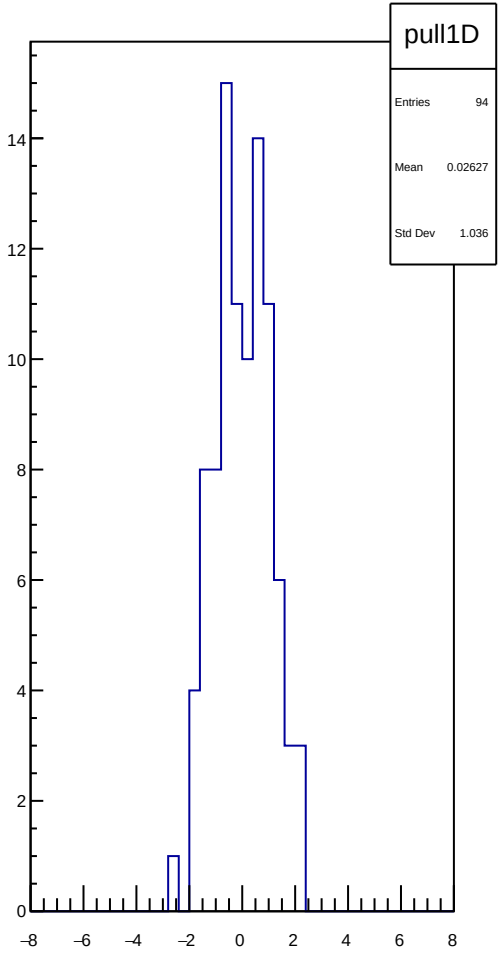

eigen_cor_asym_sam_2468_avg_rms vs run
χ^2 / ndf 1.313e+04 / 93
p0 98.74 ± 0.07348
120
110
100
90
80

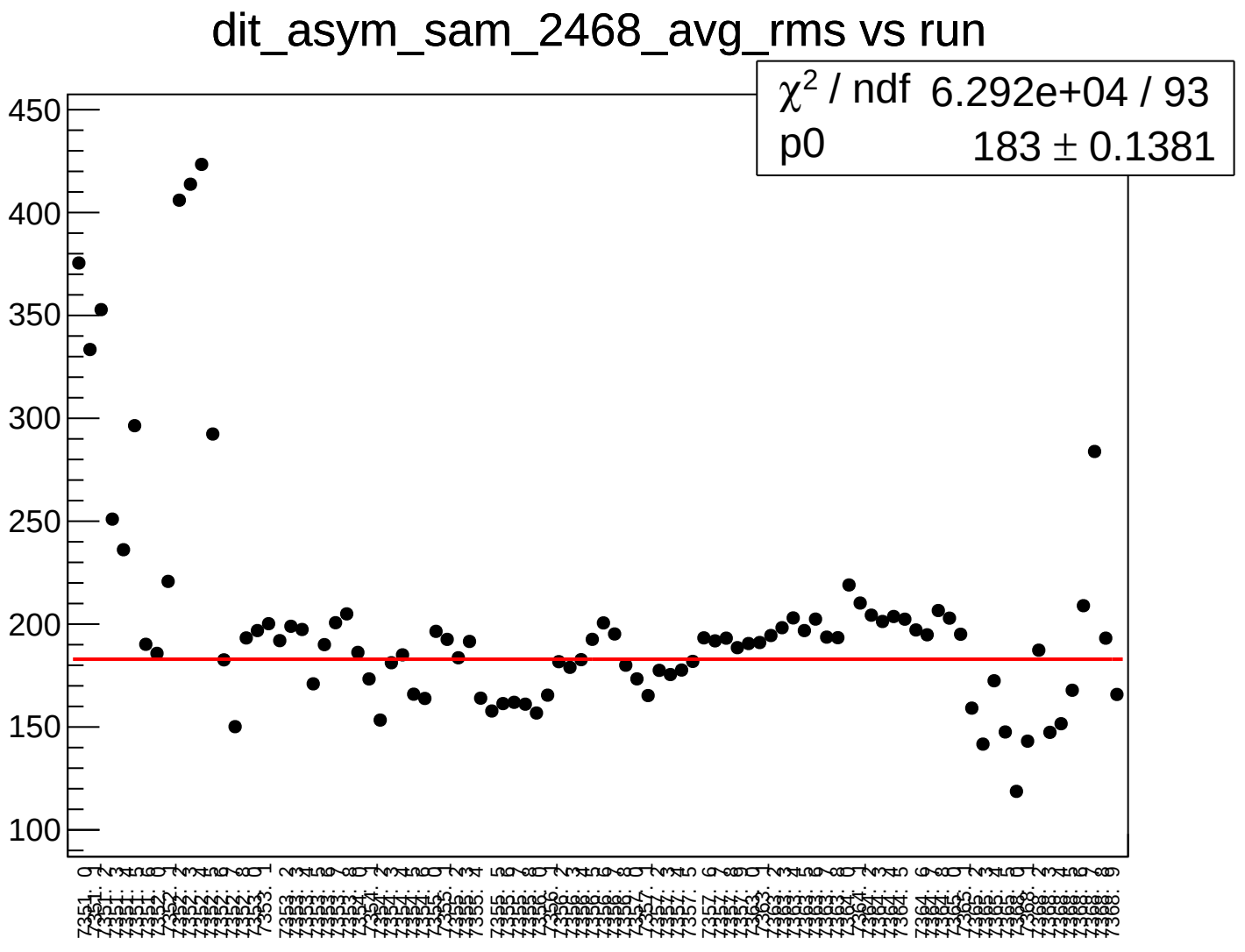

asym_sam_2468_avg_eigen_cor_correction_mean vs run
χ² / ndf 301.4 / 93
p0 709.5 ± 704.3
pull
Entries 94
Mean −349.9
Std Dev 0

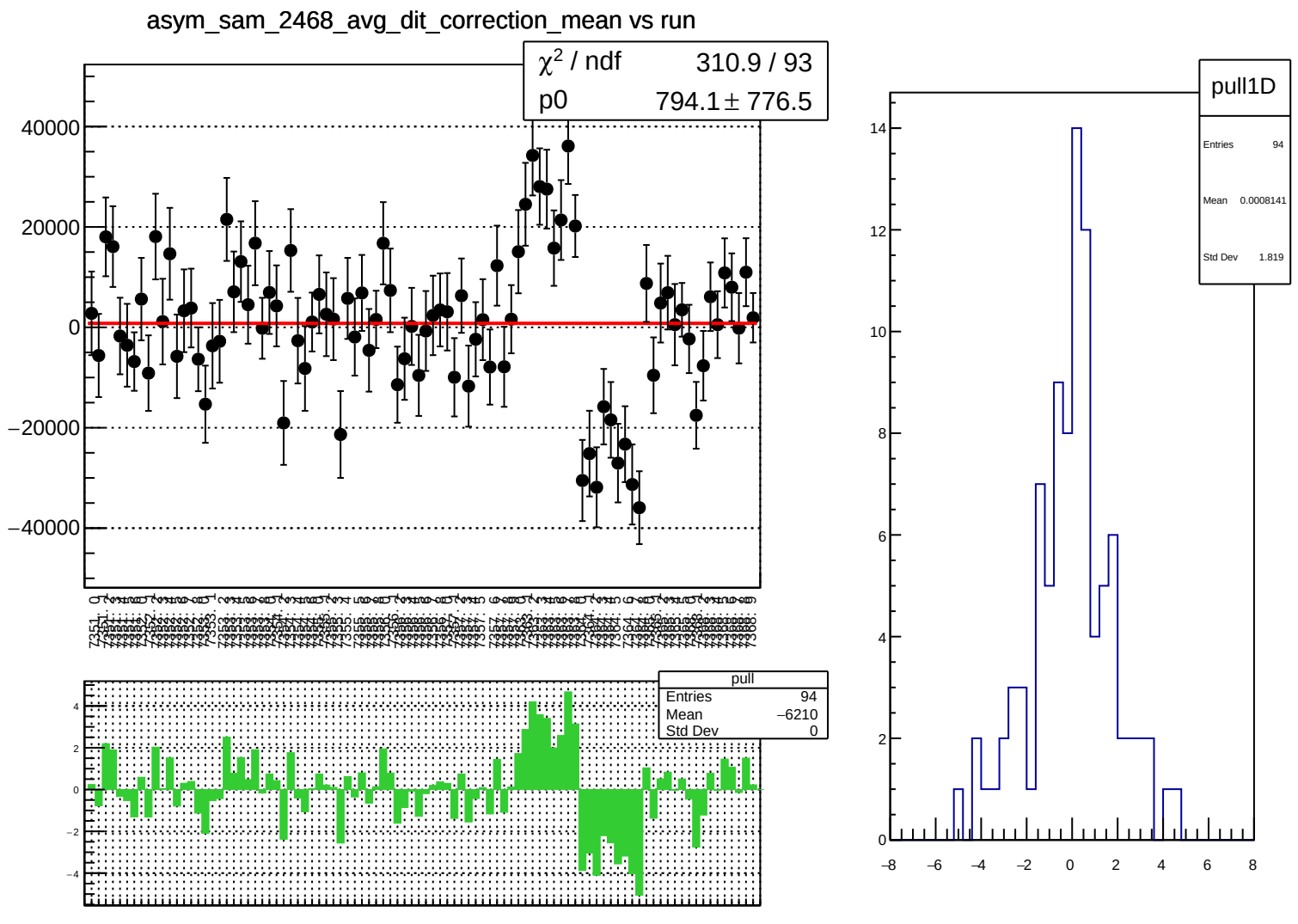

pull1D
Entries 94
Mean 0.01121
Std Dev 1.791

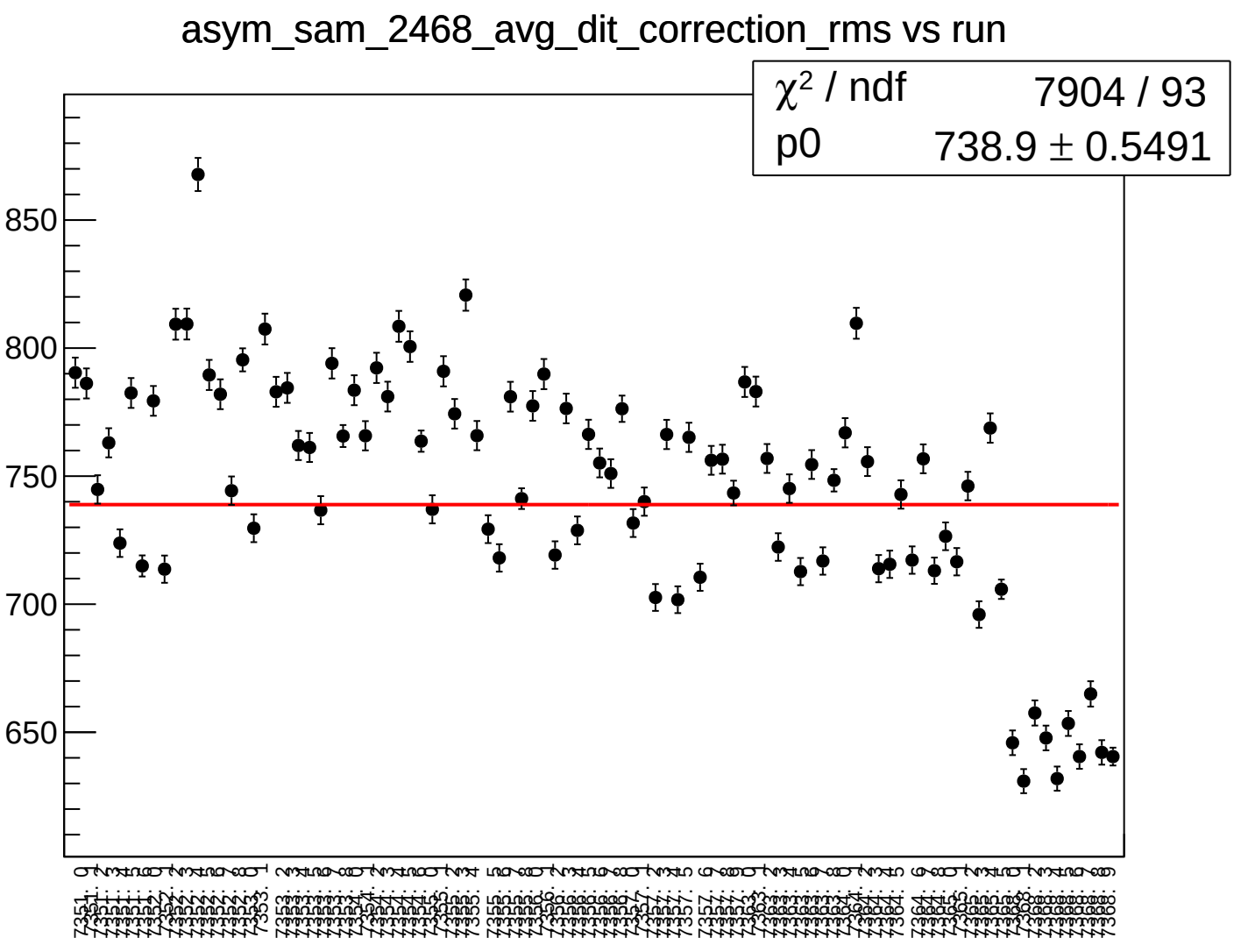

asym_sam_2468_avg_eigen_cor_correction_rms vs run
χ² / ndf 8058 / 93
p0 670.1 ± 0.498
750
700
650
600
550

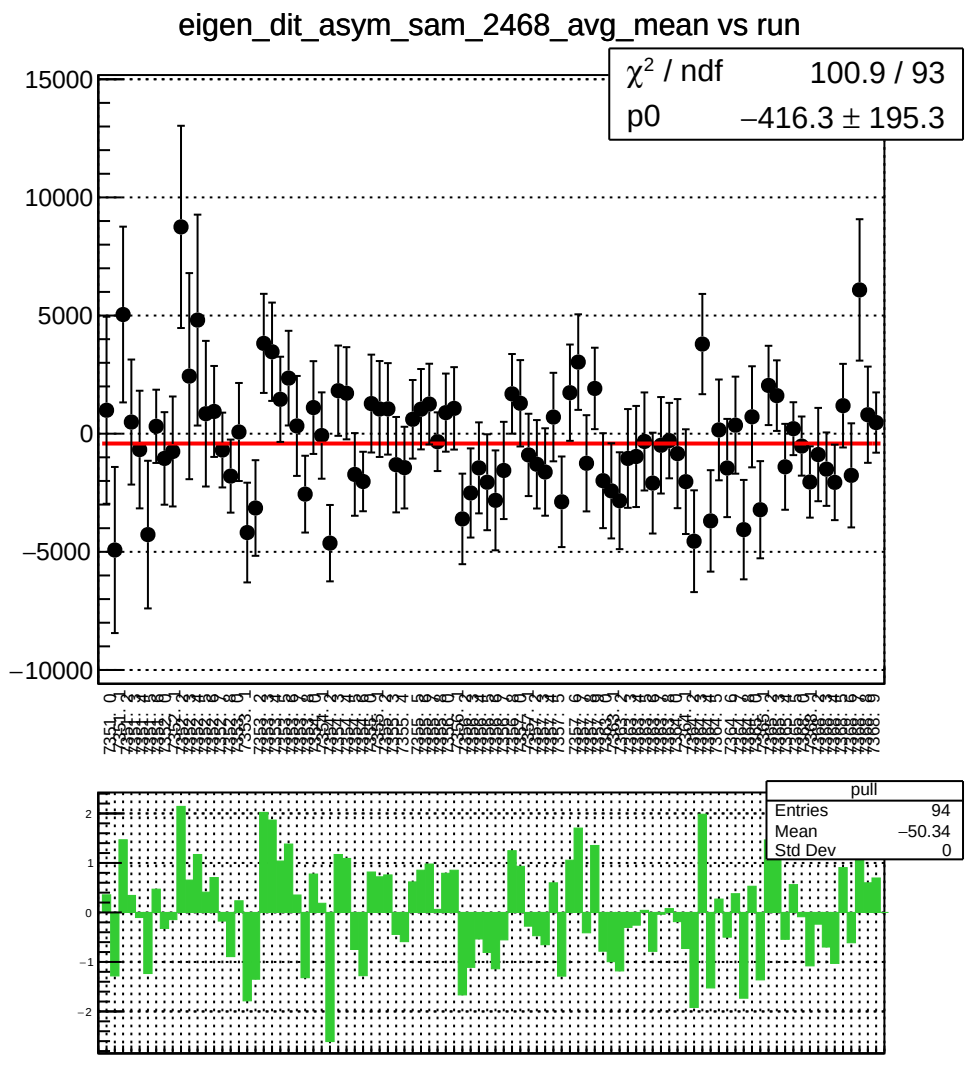

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 100.9 / 93
p0 −416.3 ± 195.3
15000
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −50.34
Std Dev 0
2
1
0
−1
−2

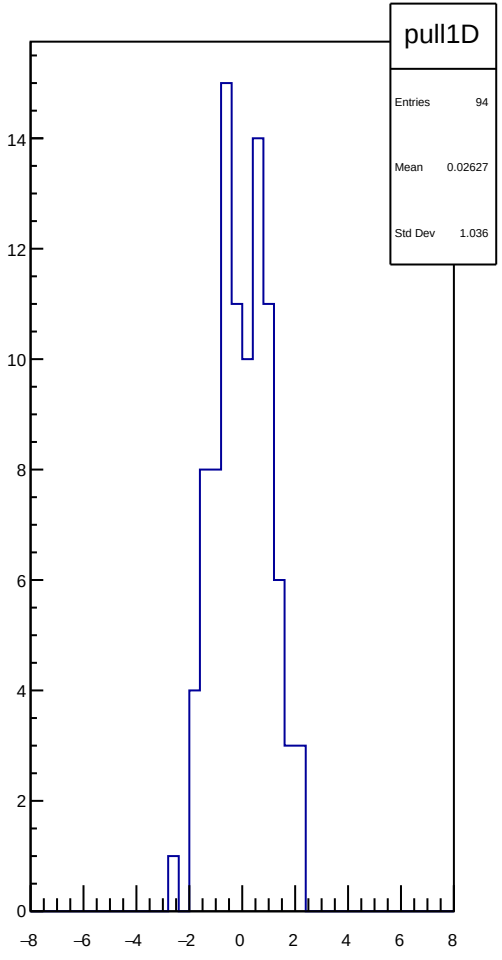

pull1D
Entries 94
Mean 0.02627
Std Dev 1.036
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

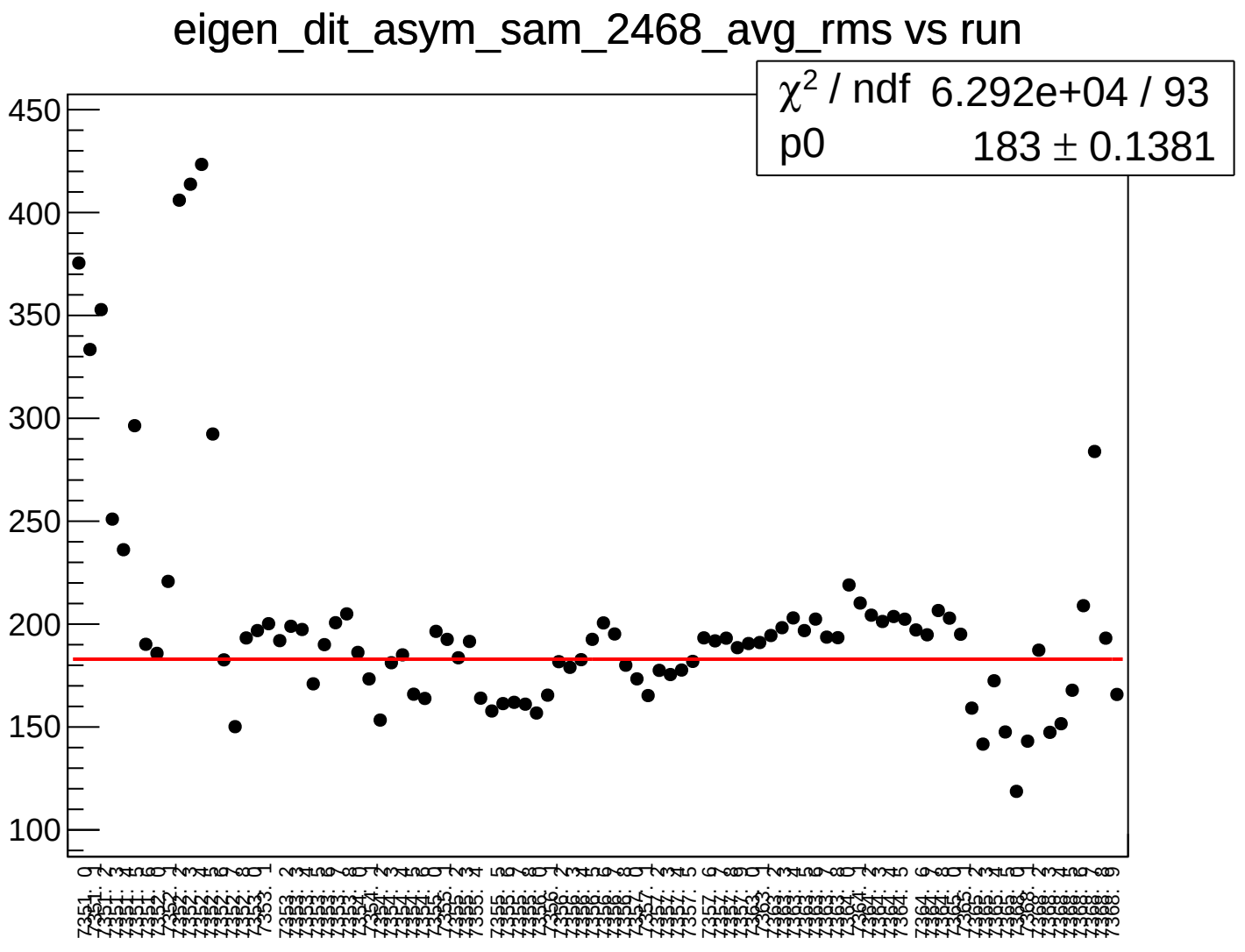

dit_asym_sam_2468_avg_rms vs run
χ^2 / ndf 6.292e+04 / 93
p0 183 ± 0.1381
450
400
350
300
250
200
150
100

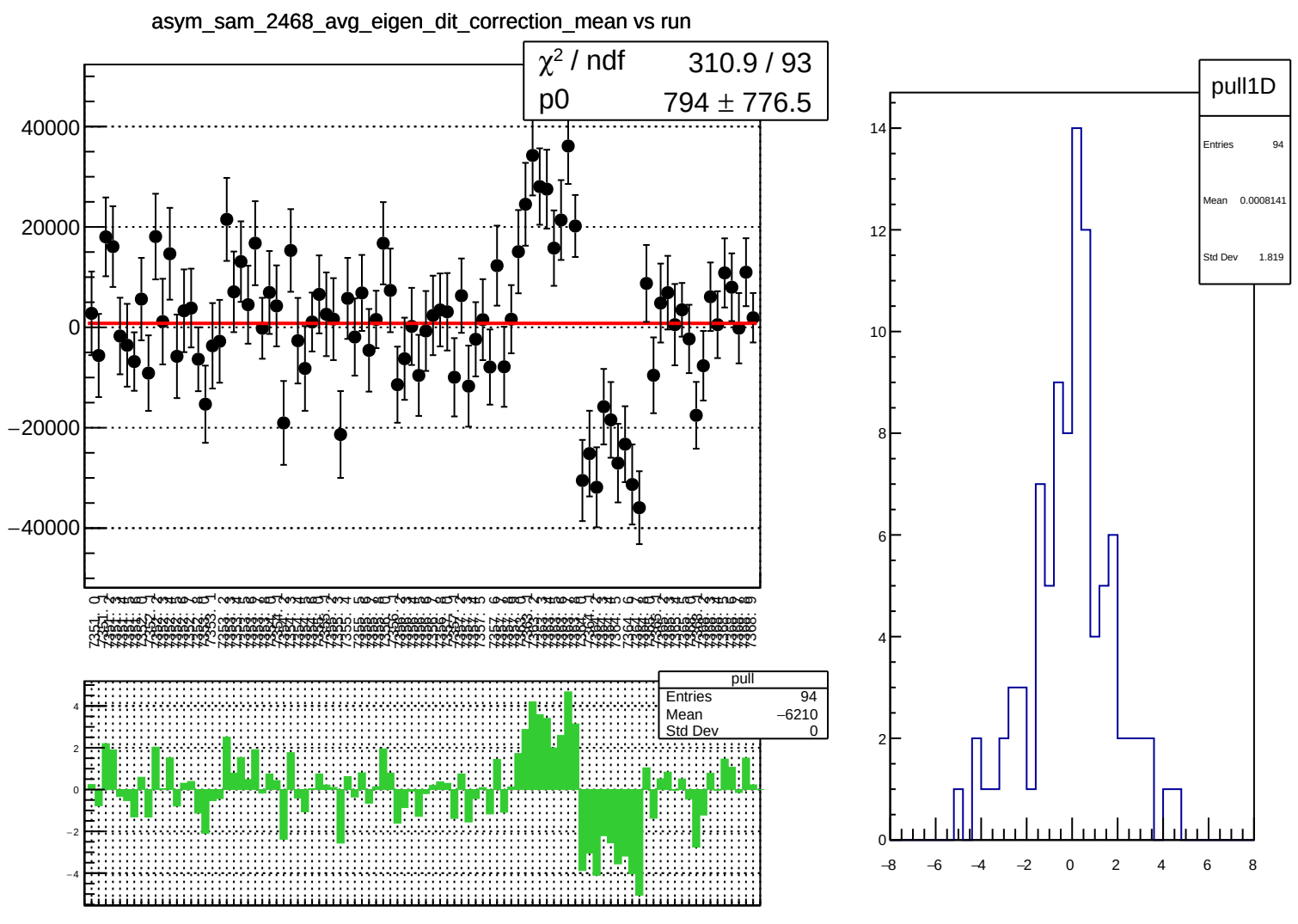

asym_sam_2468_avg_dit_correction_mean vs run
χ² / ndf 310.9 / 93
p0 794.1 ± 776.5
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −6210
Std Dev 0
4
2
0
−2
−4
pull1D
Entries 94
Mean 0.0008141
Std Dev 1.819
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

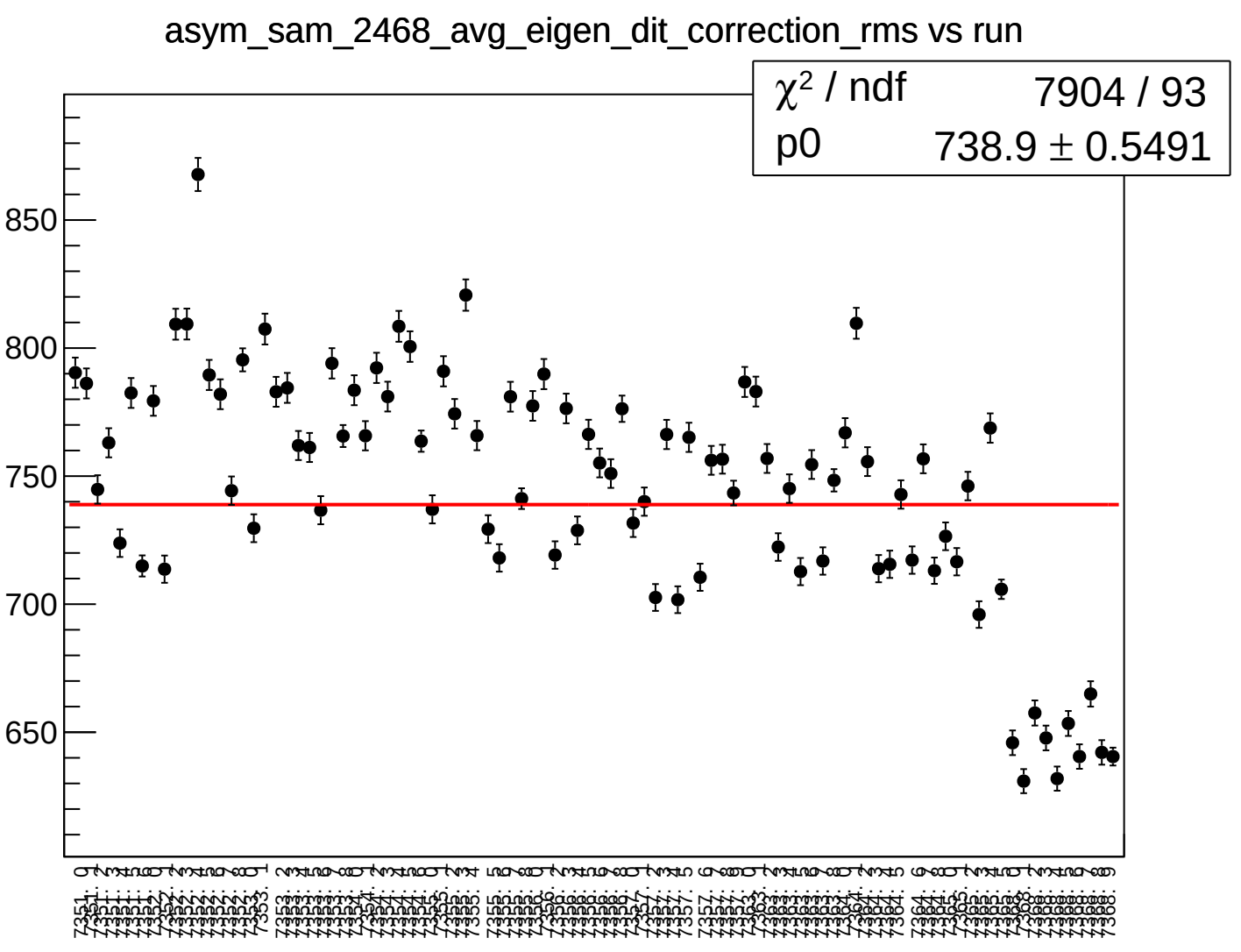

asym_sam_2468_avg_dit_correction_rms vs run
χ² / ndf 7904 / 93
p0 738.9 ± 0.5491
850
800
750
700
650

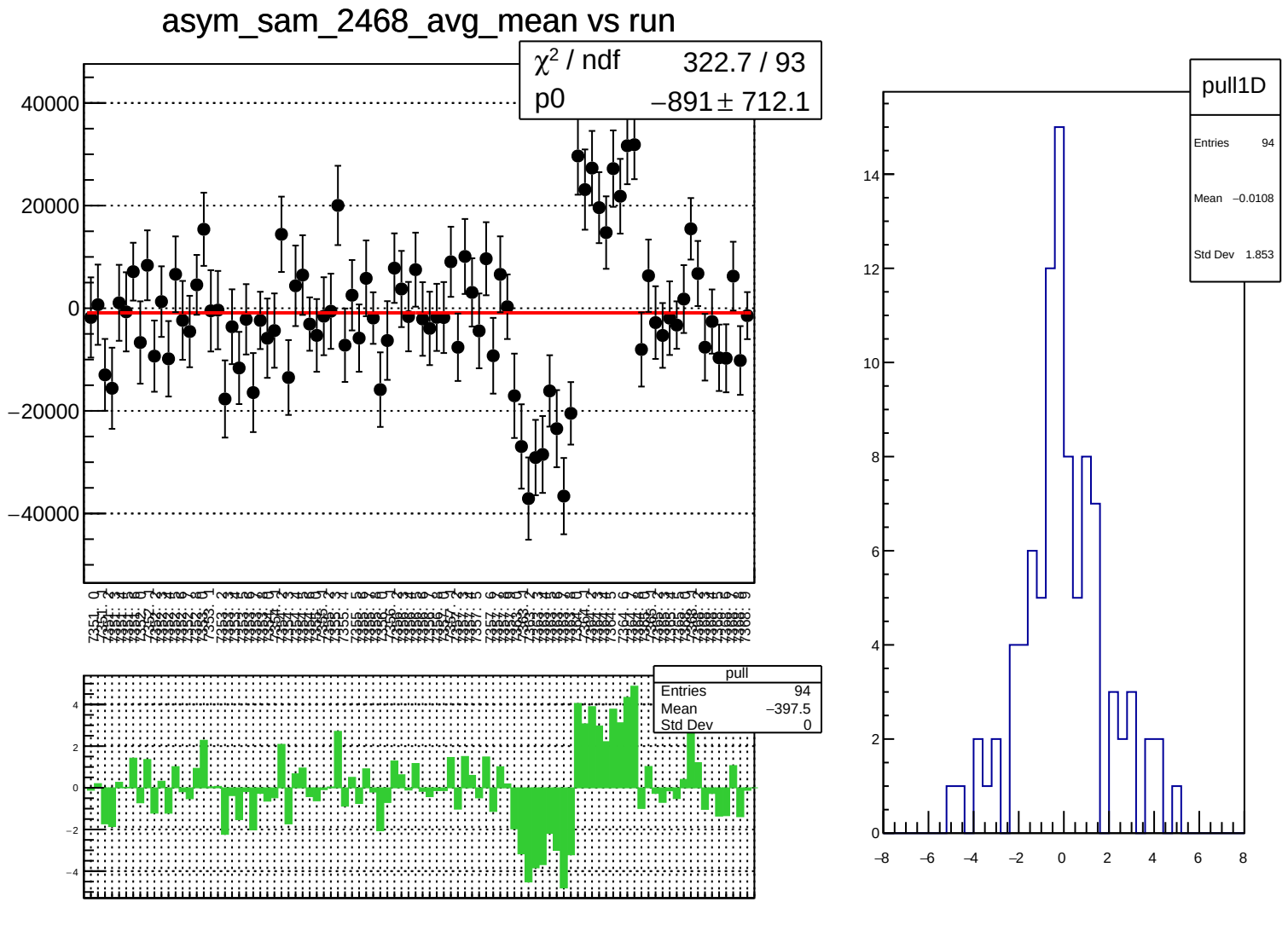

eigen_dit_asym_sam_2468_avg_mean vs run
χ² / ndf 100.9 / 93
p0 −416.3 ± 195.3
15000
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −50.34
Std Dev 0
2
1
0
−1
−2

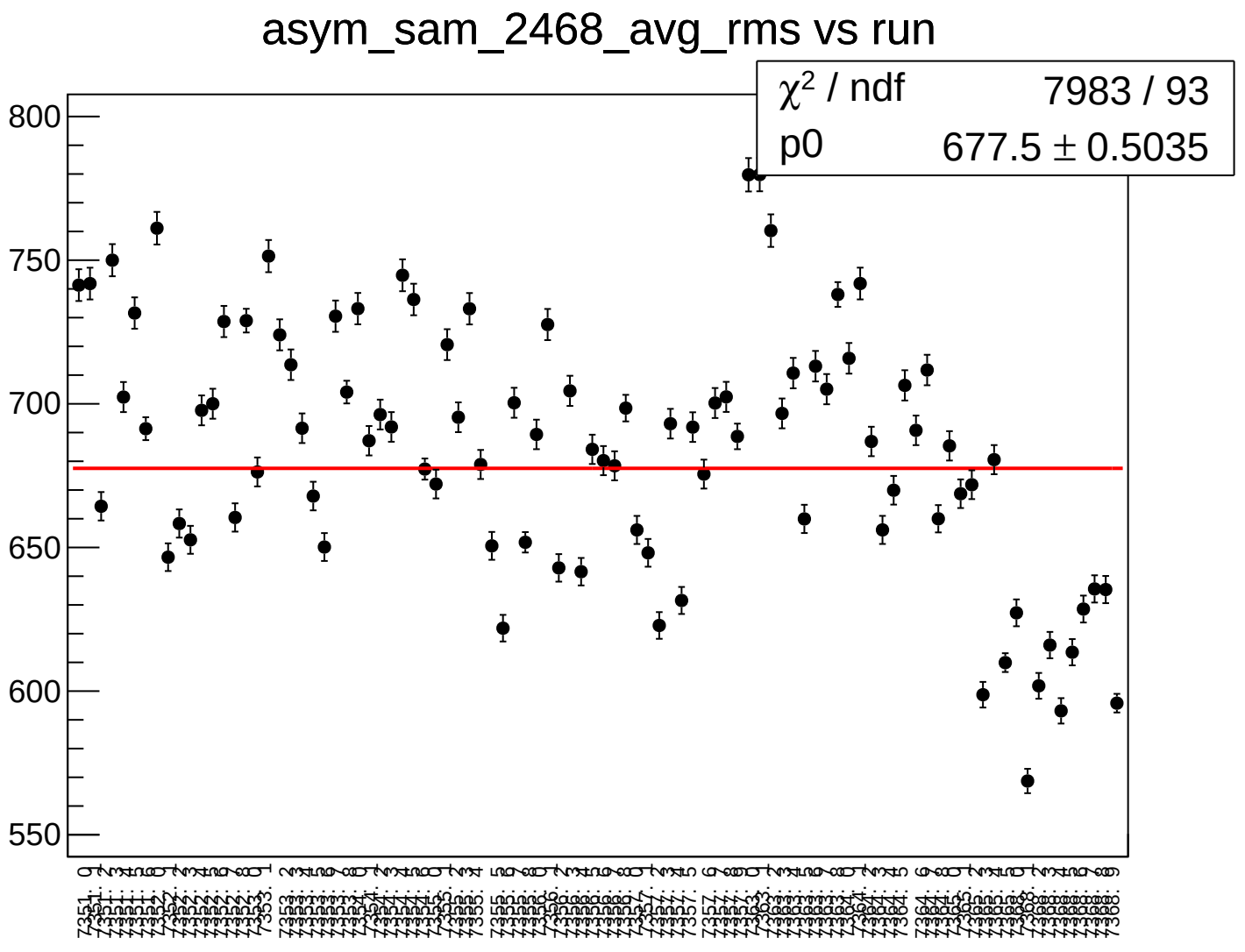

pull1D
Entries 94
Mean 0.02627
Std Dev 1.036
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

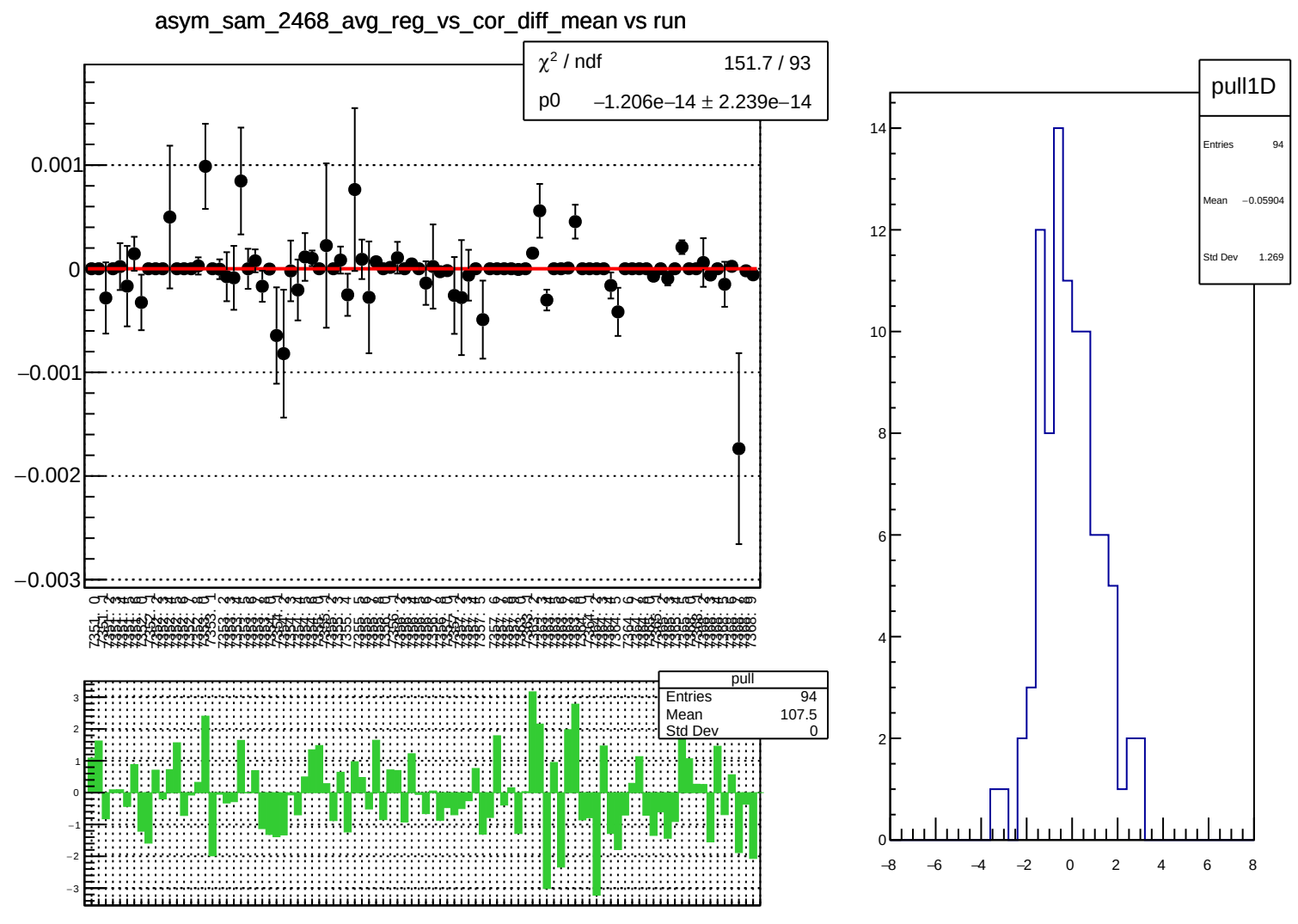

eigen_dit_asym_sam_2468_avg_rms vs run
χ^2 / ndf 6.292e+04 / 93
p0 183 ± 0.1381
450
400
350
300
250
200
150
100

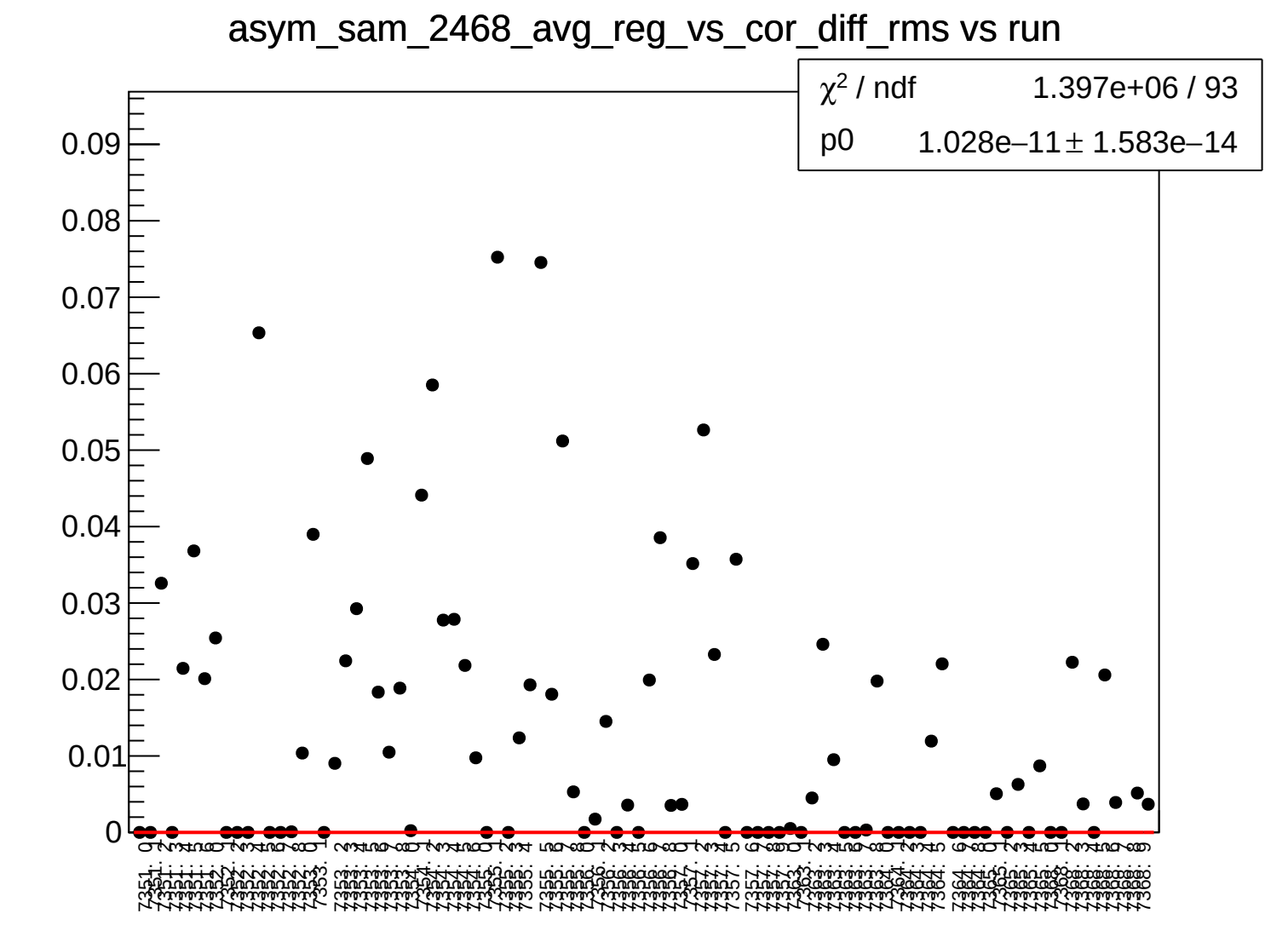

asym_sam_2468_avg_eigen_dit_correction_mean vs run
χ² / ndf 310.9 / 93
p0 794 ± 776.5
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −6210
Std Dev 0
4
2
0
−2
−4
pull1D
Entries 94
Mean 0.0008141
Std Dev 1.819
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

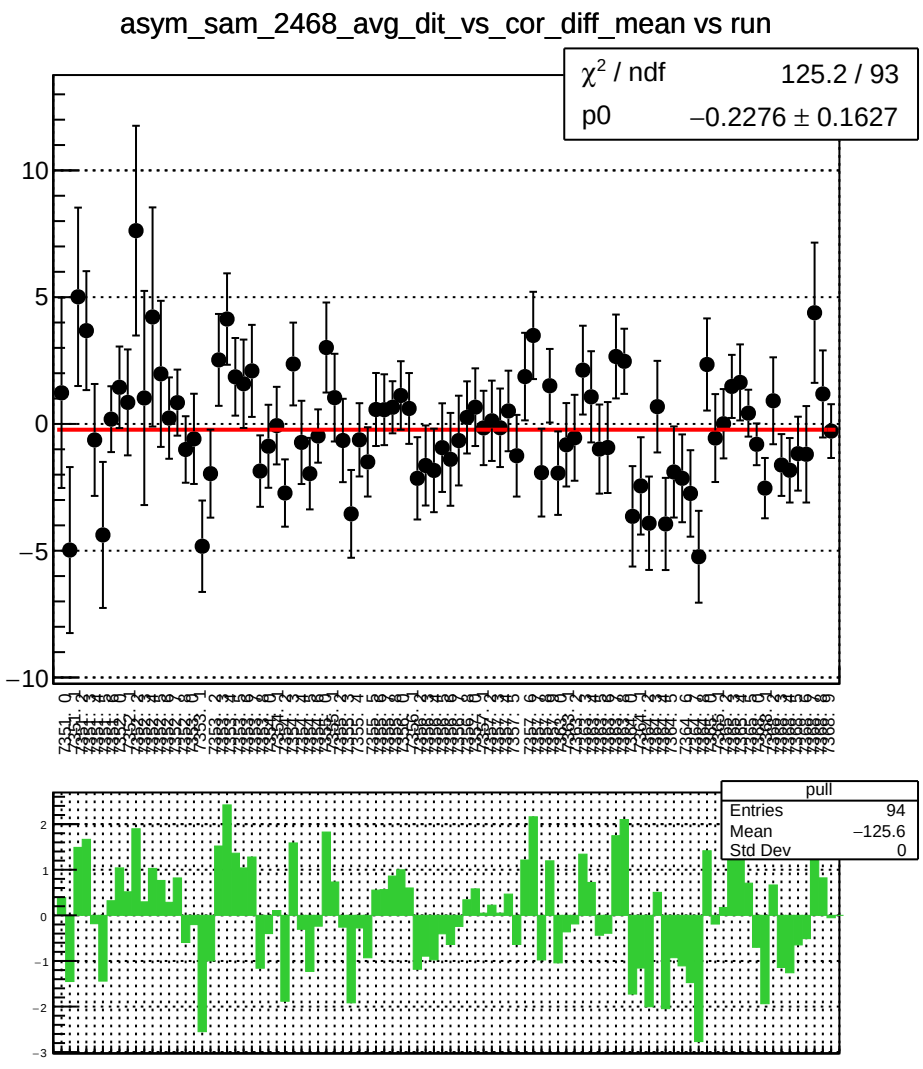

asym_sam_2468_avg_eigen_dit_correction_rms vs run
χ² / ndf 7904 / 93
p0 738.9 ± 0.5491
850
800
750
700
650

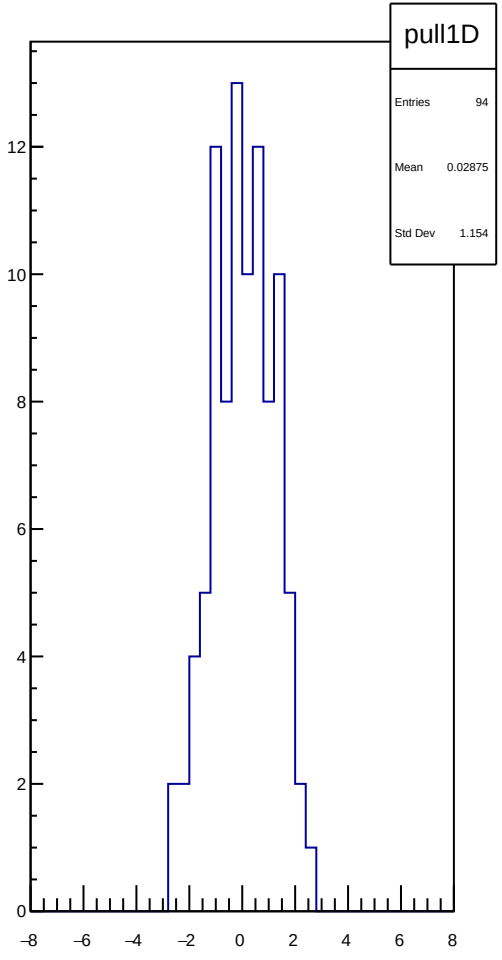

asym_sam_2468_avg_mean vs run
χ² / ndf 322.7 / 93
p0 −891 ± 712.1
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −397.5
Std Dev 0
4
2
0
−2
−4
pull1D
Entries 94
Mean −0.0108
Std Dev 1.853
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

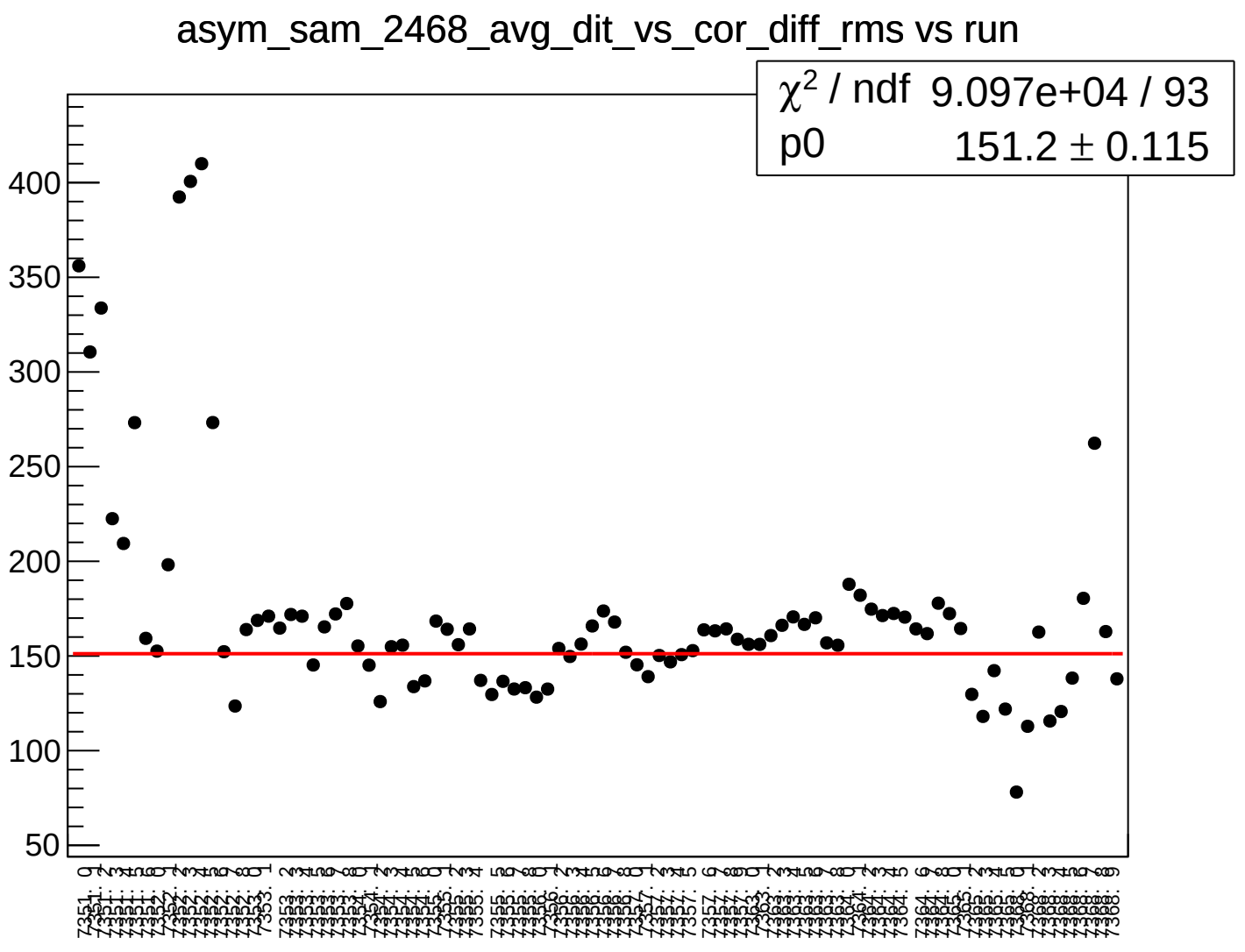

asym_sam_2468_avg_rms vs run
χ² / ndf 7983 / 93
p0 677.5 ± 0.5035
800
750
700
650
600
550

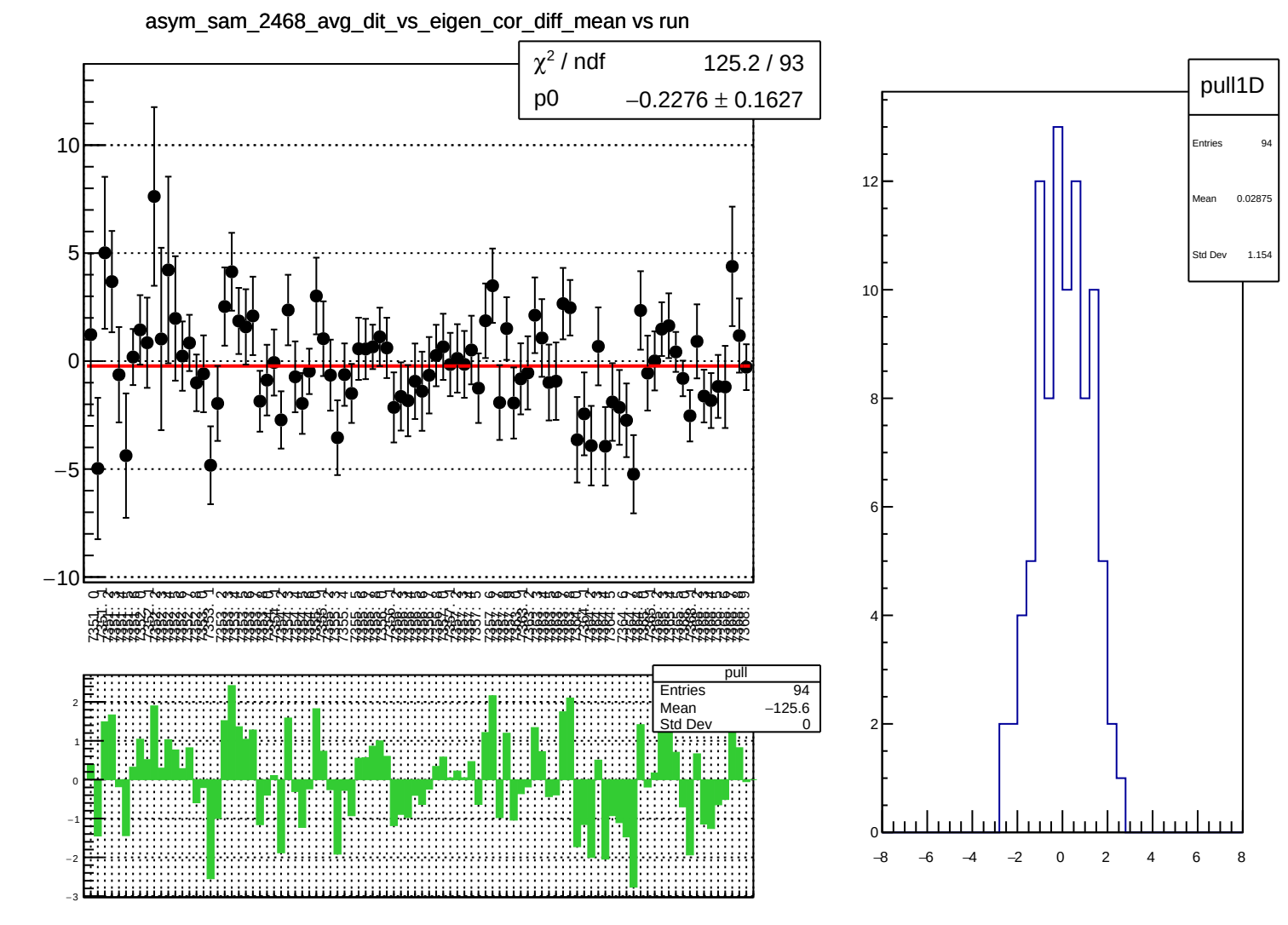

asym_sam_2468_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 151.7 / 93
p0 −1.206e−14 ± 2.239e−14
0.001
0
−0.001
−0.002
−0.003
pull
Entries 94
Mean 107.5
Std Dev 0
pull1D
Entries 94
Mean −0.05904
Std Dev 1.269

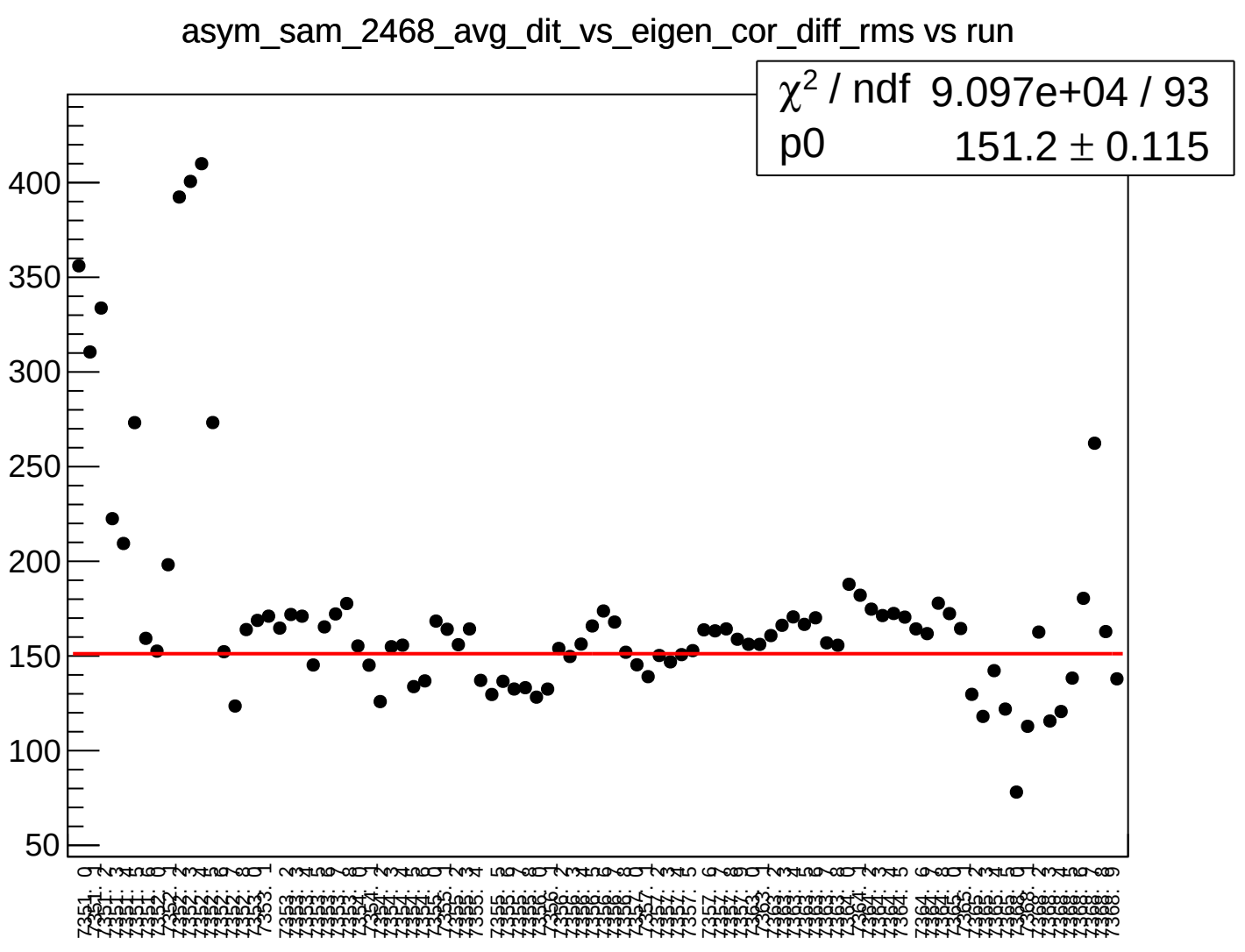

asym_sam_2468_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.397e+06 / 93
p0 1.028e−11 ± 1.583e−14
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

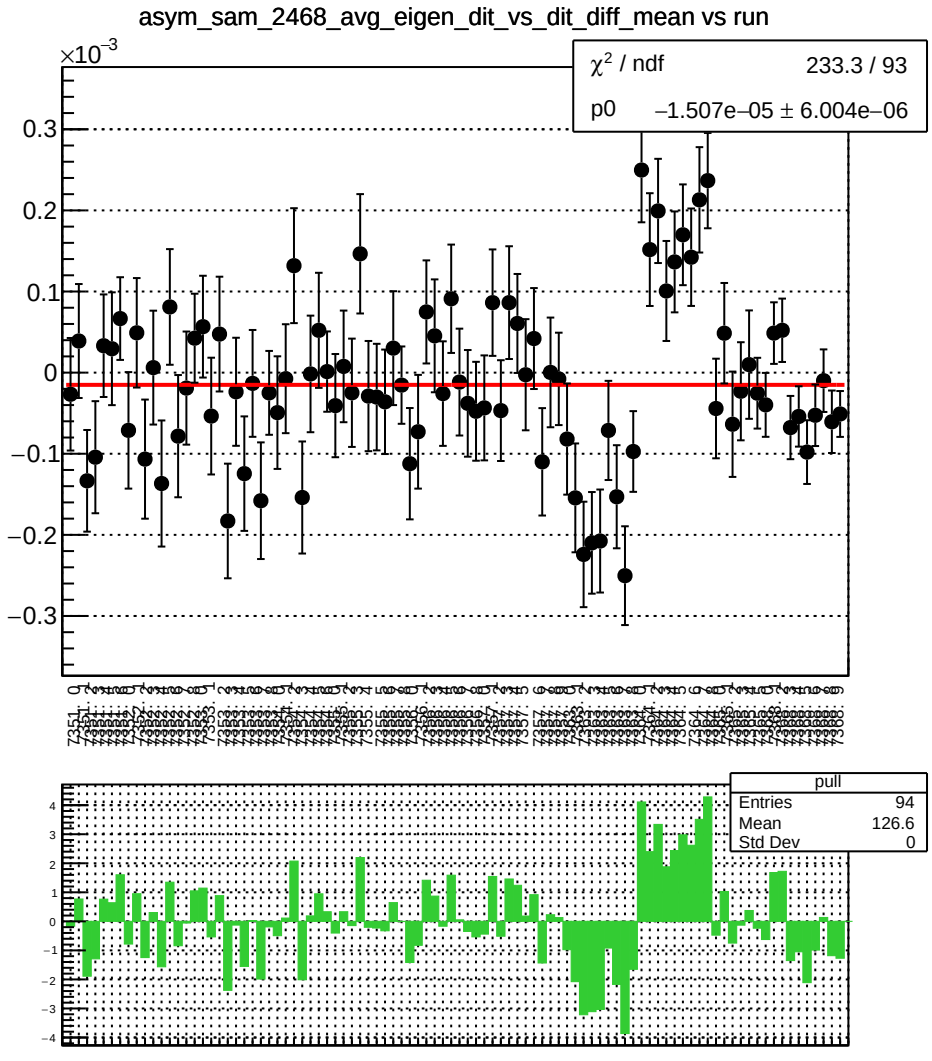

asym_sam_2468_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 125.2 / 93
p0 −0.2276 ± 0.1627
pull
Entries 94
Mean −125.6
Std Dev 0

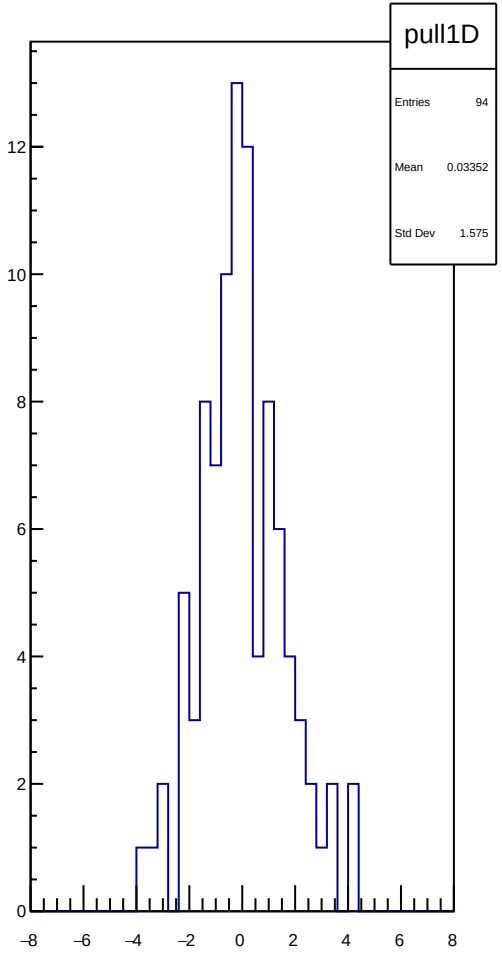

pull1D
Entries 94
Mean 0.02875
Std Dev 1.154

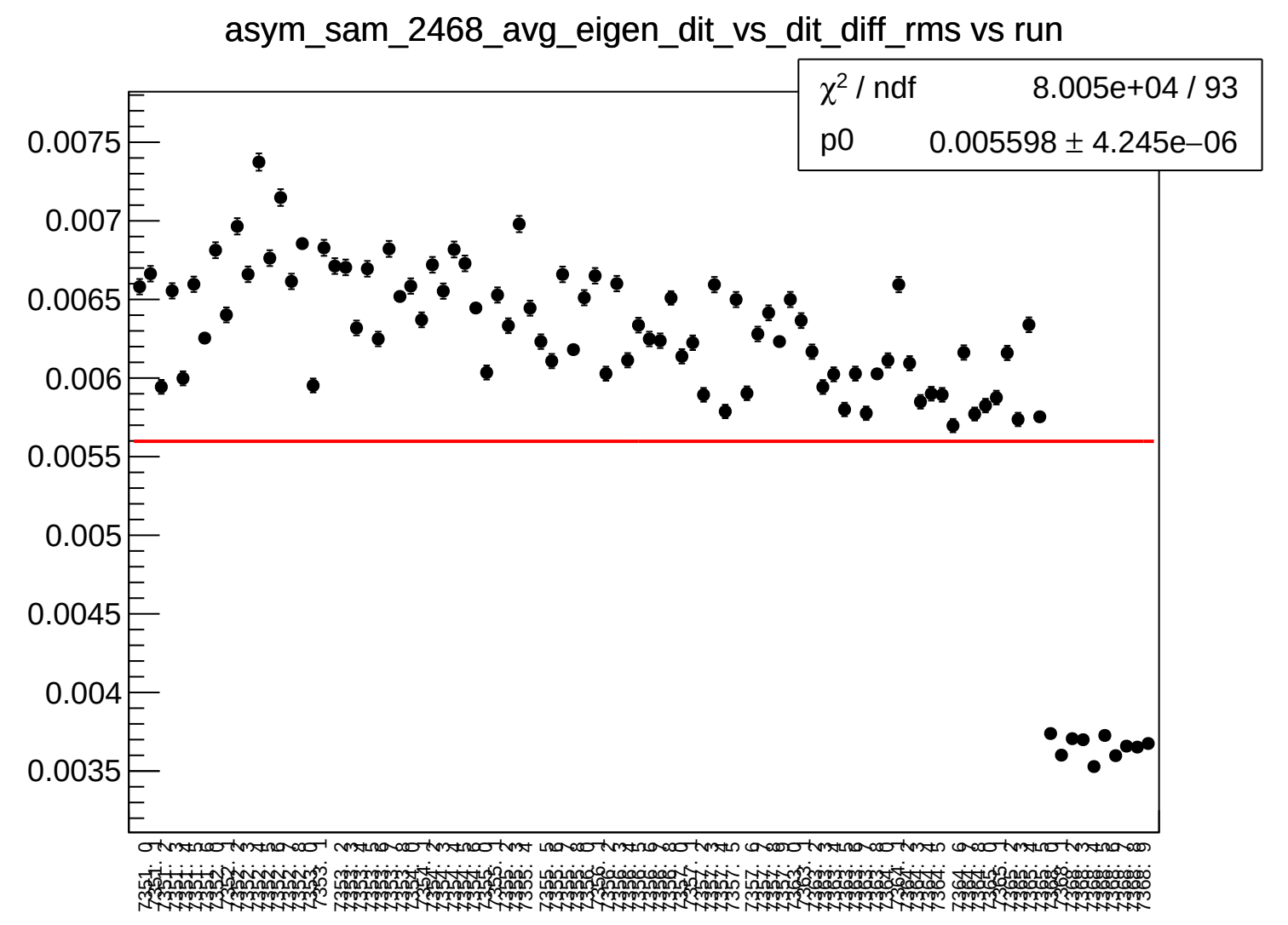

asym_sam_2468_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 9.097e+04 / 93
p0 151.2 ± 0.115
400
350
300
250
200
150
100
50

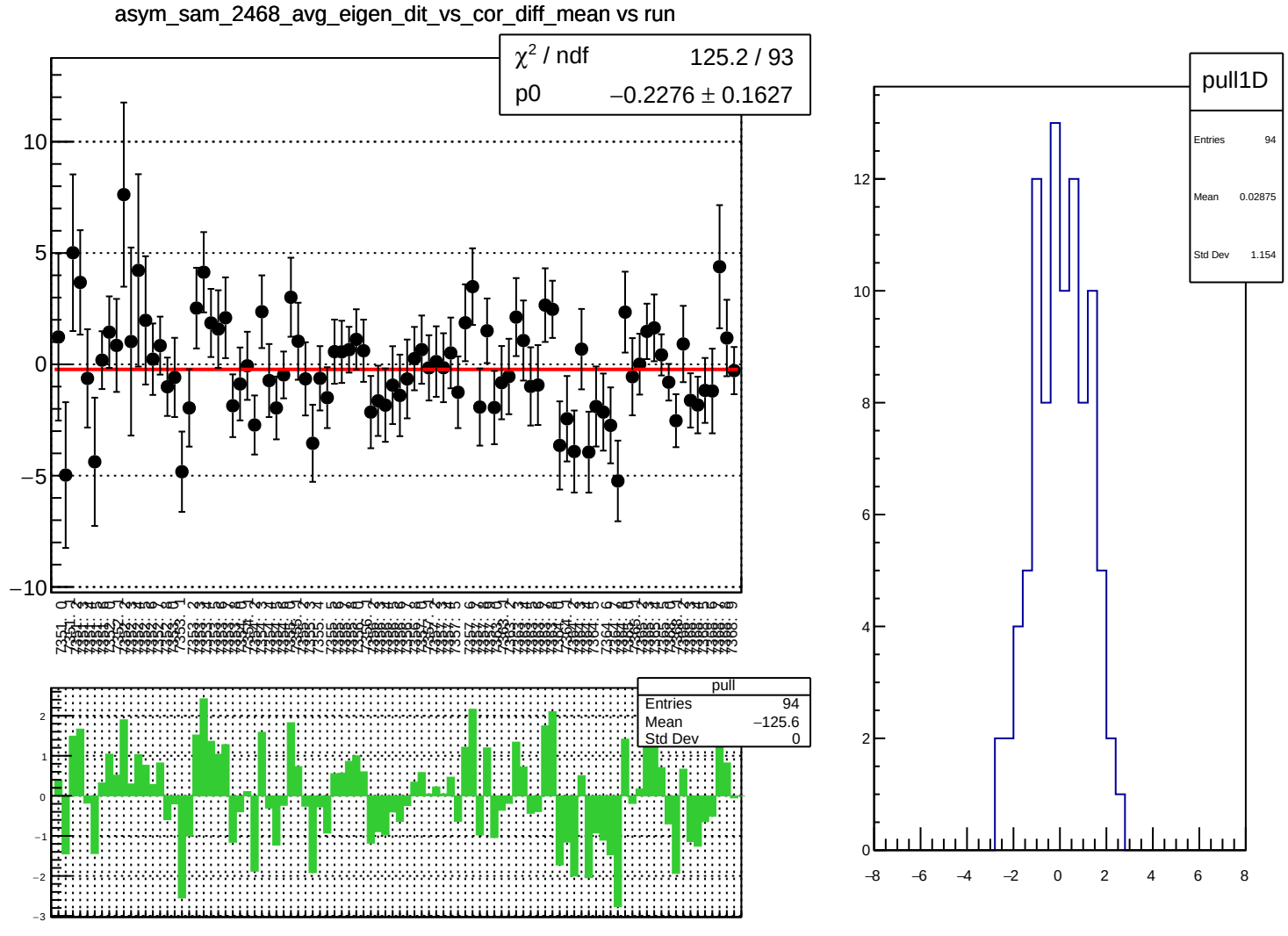

asym_sam_2468_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 125.2 / 93
p0 −0.2276 ± 0.1627
pull
Entries 94
Mean −125.6
Std Dev 0
pull1D
Entries 94
Mean 0.02875
Std Dev 1.154

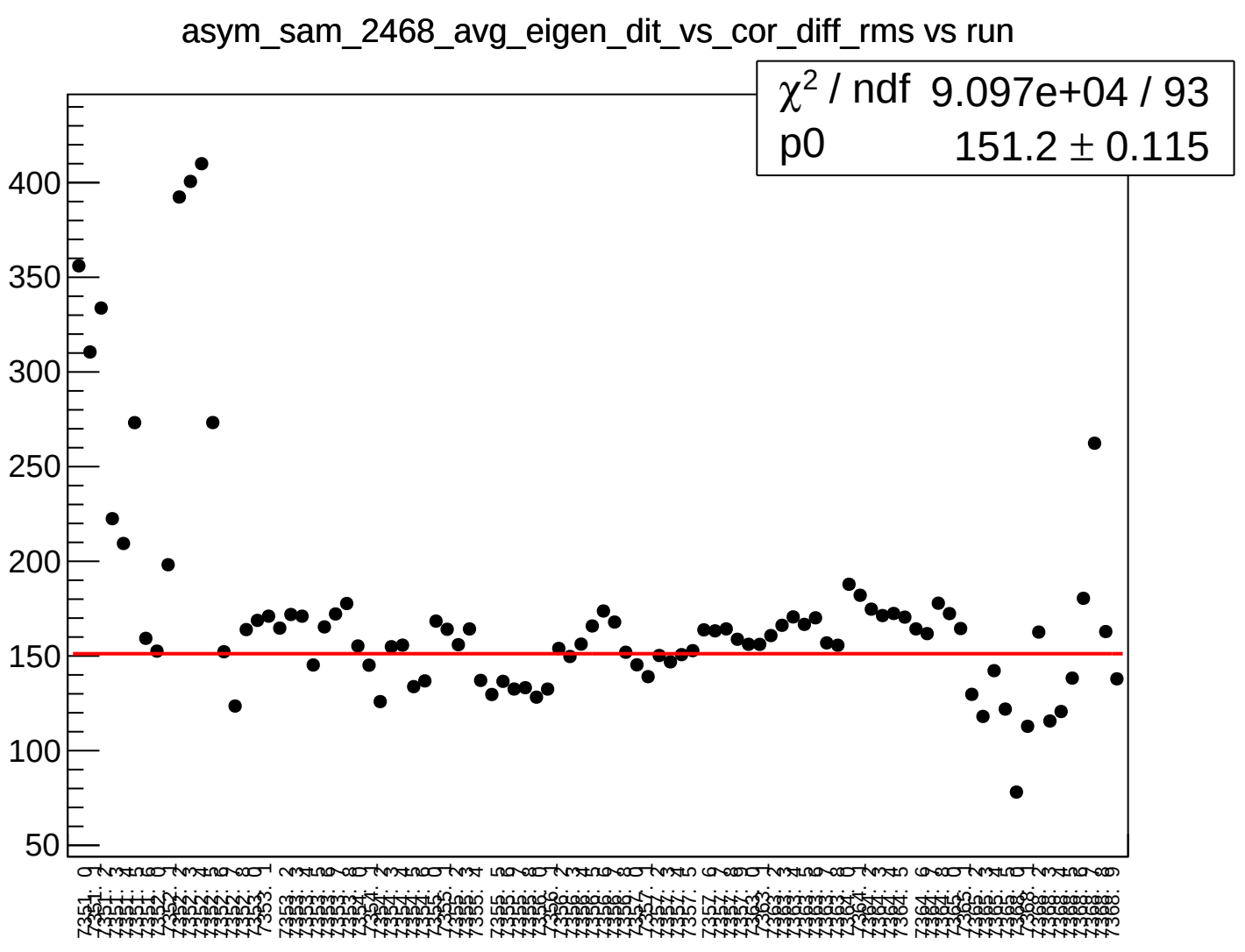

asym_sam_2468_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.097e+04 / 93
p0 151.2 ± 0.115
400
350
300
250
200
150
100
50

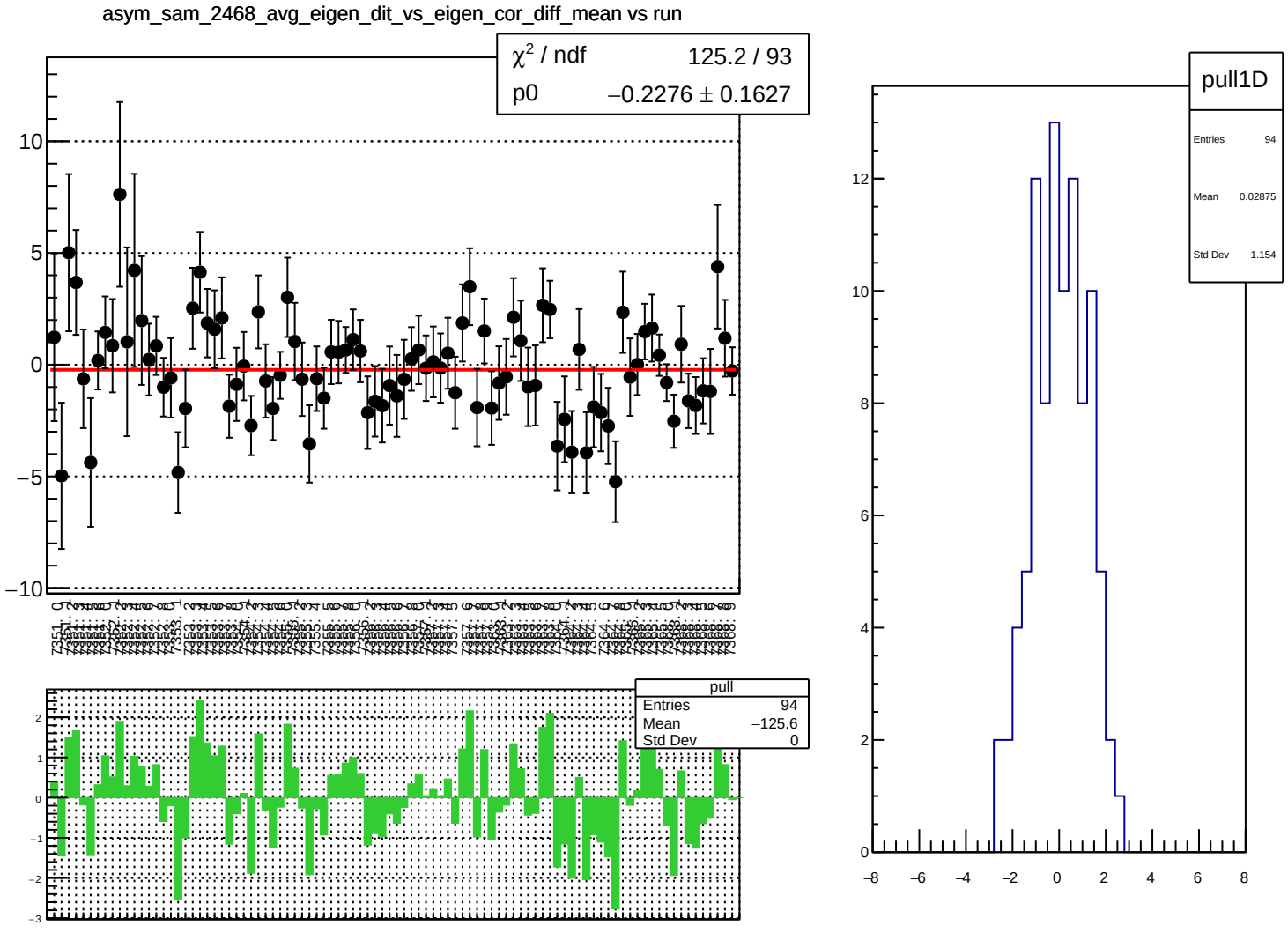

asym_sam_2468_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 233.3 / 93
p0 −1.507e−05 ± 6.004e−06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 94
Mean 126.6
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4

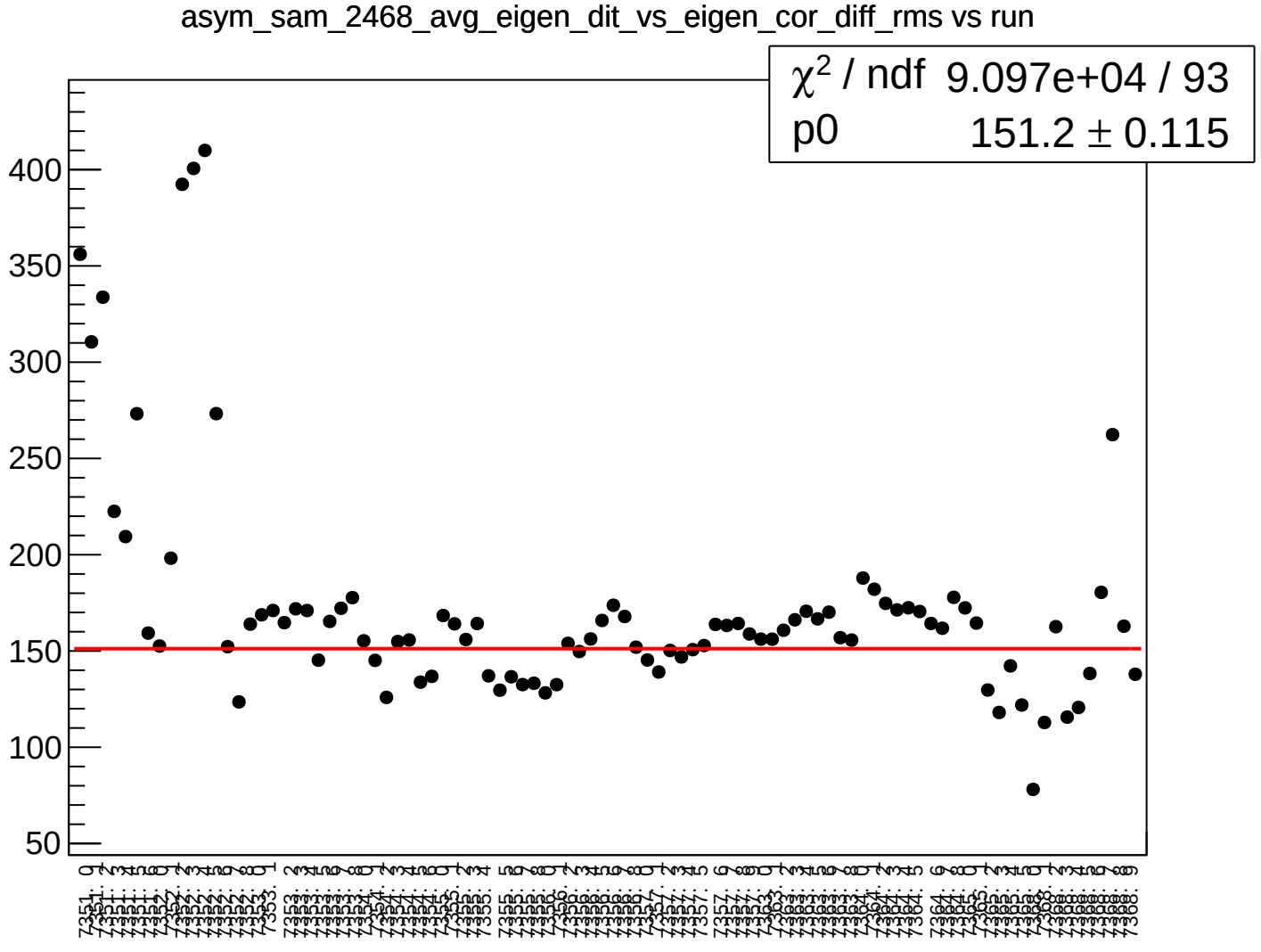

pull1D
Entries 94
Mean 0.03352
Std Dev 1.575
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

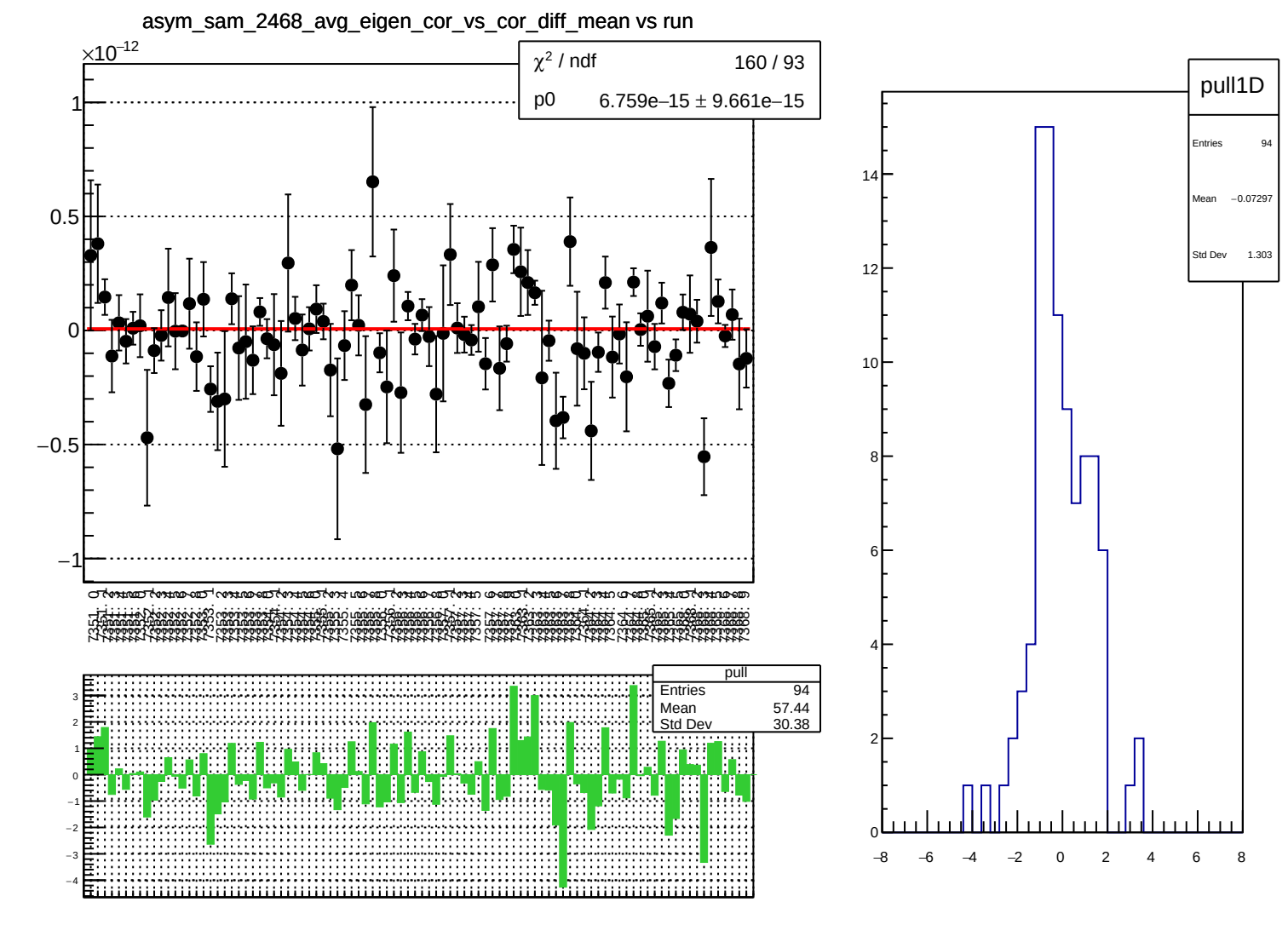

asym_sam_2468_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.005e+04 / 93
p0 0.005598 ± 4.245e−06
0.0075
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035

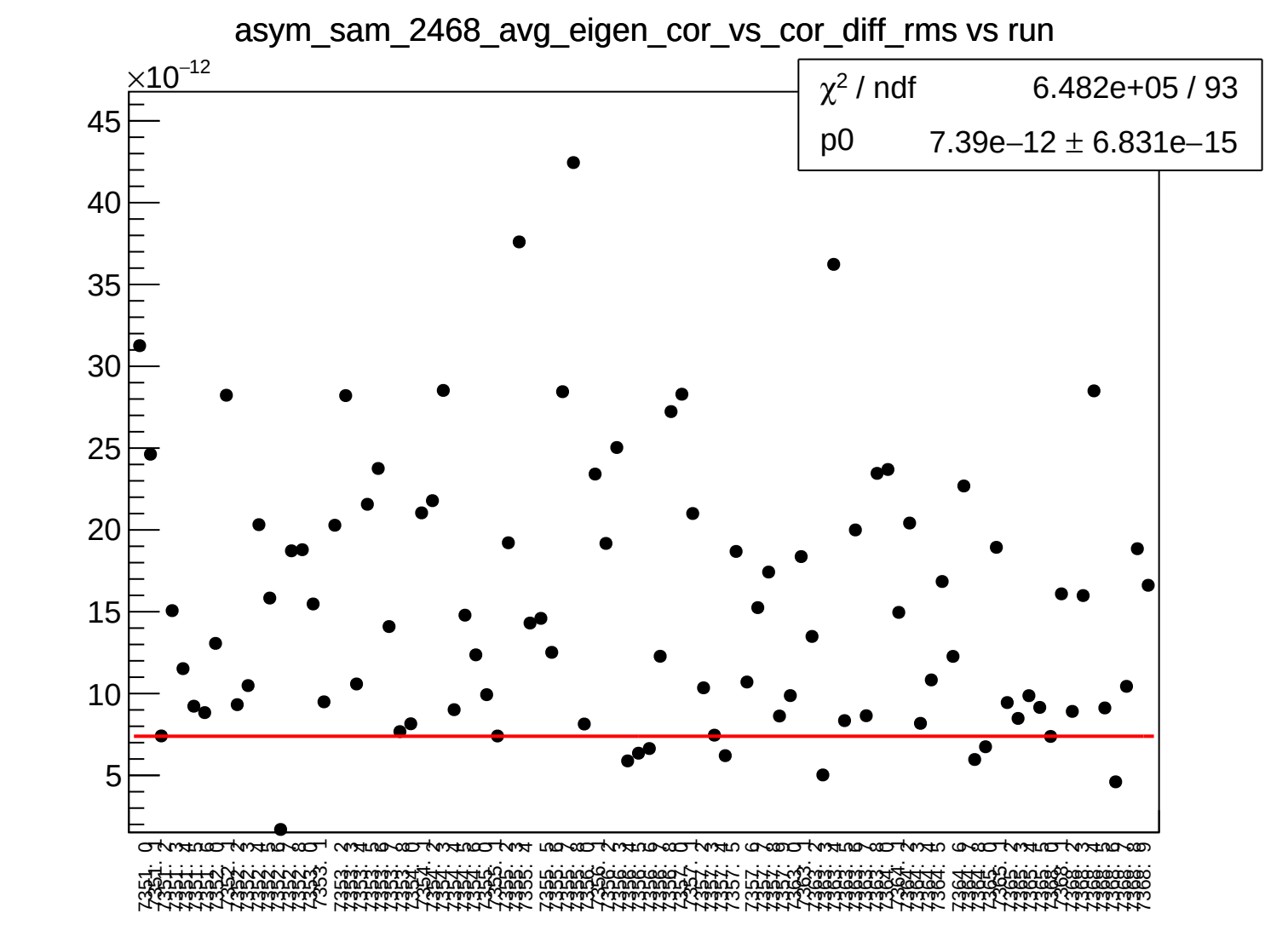

asym_sam_2468_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 125.2 / 93
p0 −0.2276 ± 0.1627
pull
Entries 94
Mean −125.6
Std Dev 0
pull1D
Entries 94
Mean 0.02875
Std Dev 1.154

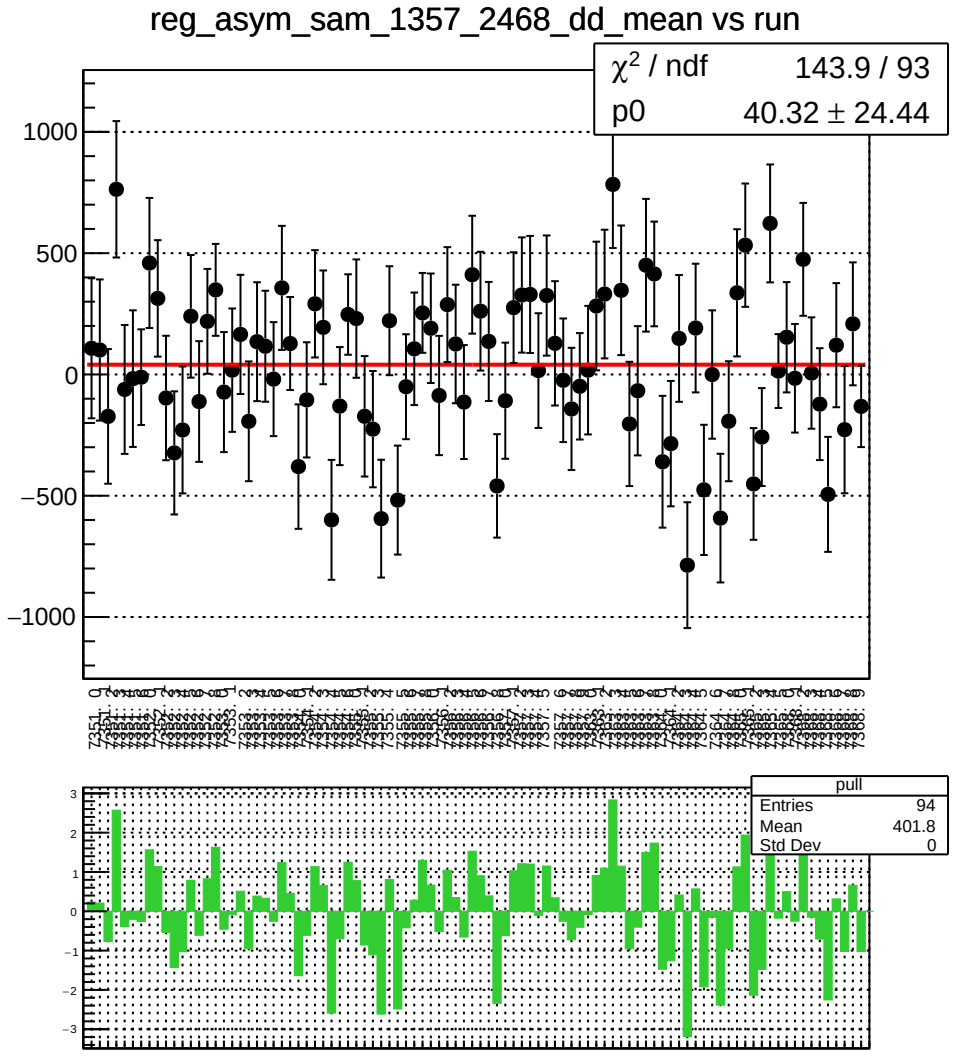

asym_sam_2468_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.097e+04 / 93
p0 151.2 ± 0.115
400
350
300
250
200
150
100
50

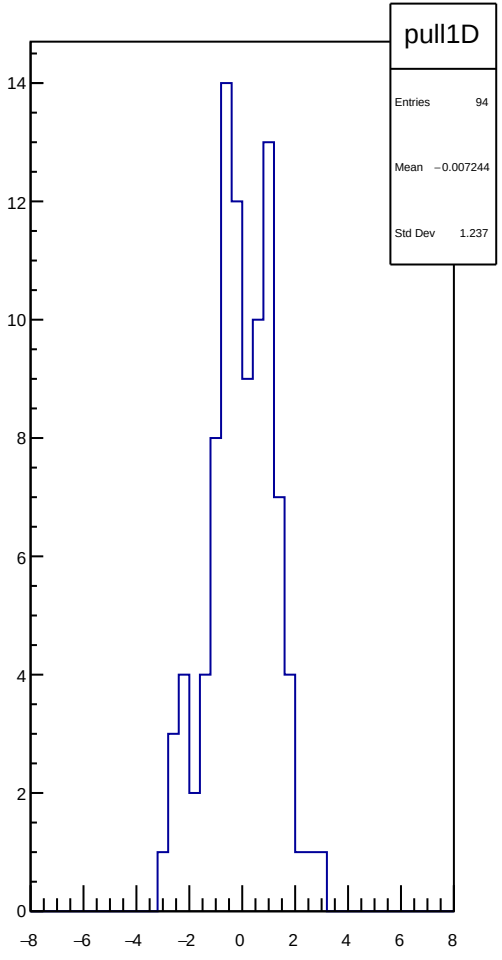

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 125.2 / 93
p0 −0.2276 ± 0.1627
pull
Entries 94
Mean −125.6
Std Dev 0
pull1D
Entries 94
Mean 0.02875
Std Dev 1.154

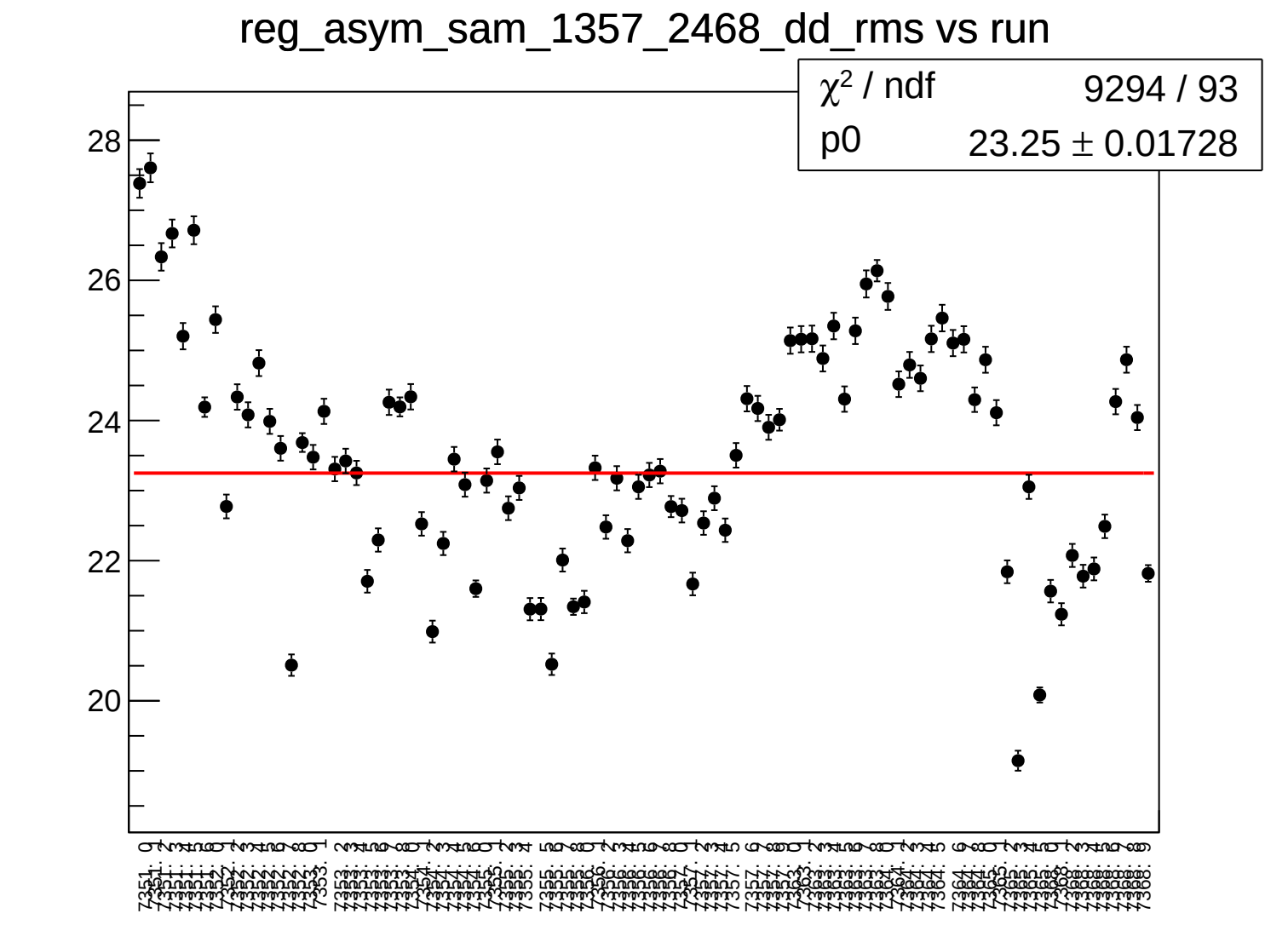

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.097e+04 / 93
p0 151.2 ± 0.115
400
350
300
250
200
150
100
50

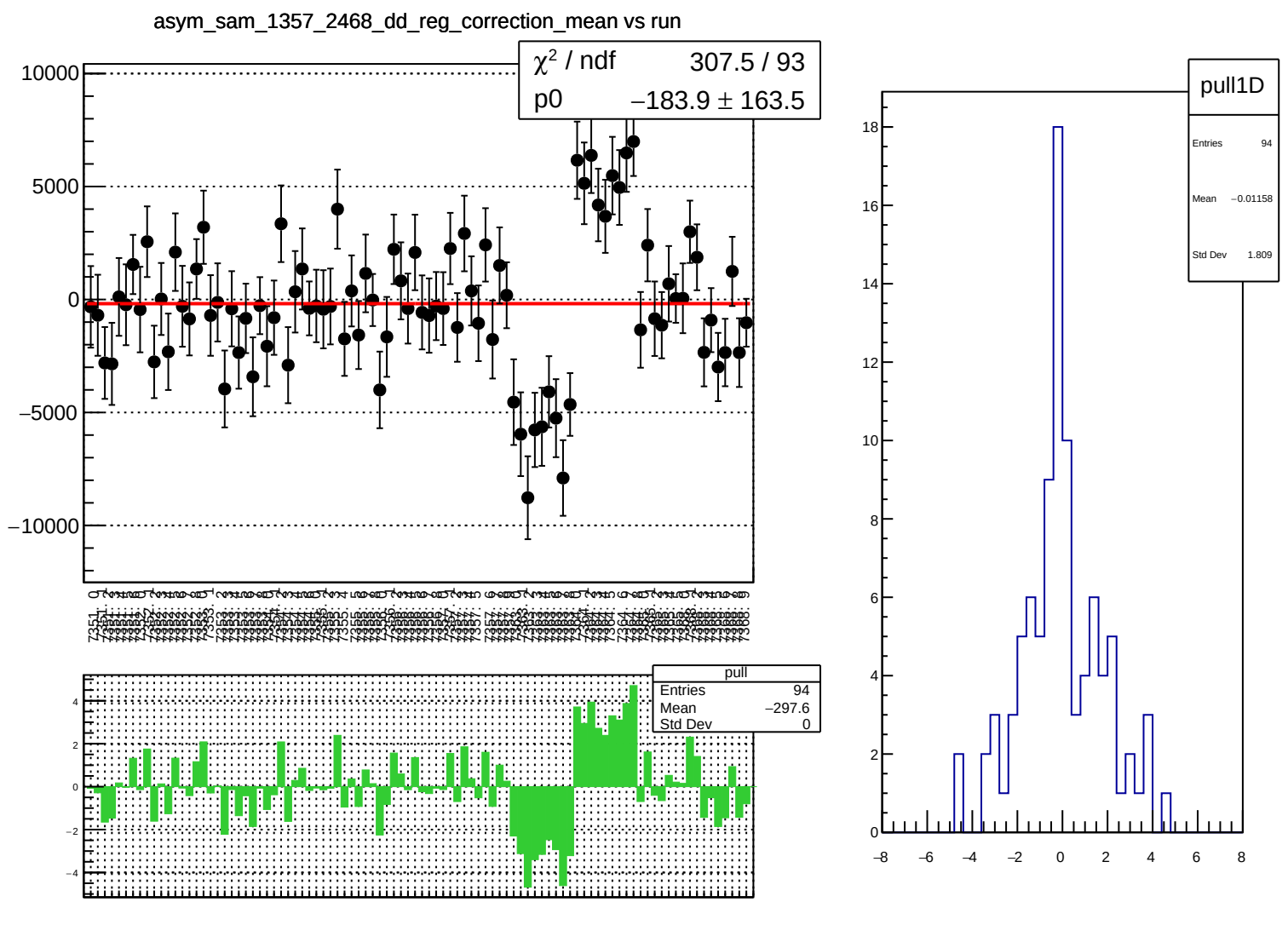

asym_sam_2468_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 160 / 93
p0 6.759e−15 ± 9.661e−15
pull
Entries 94
Mean 57.44
Std Dev 30.38
pull1D
Entries 94
Mean −0.07297
Std Dev 1.303

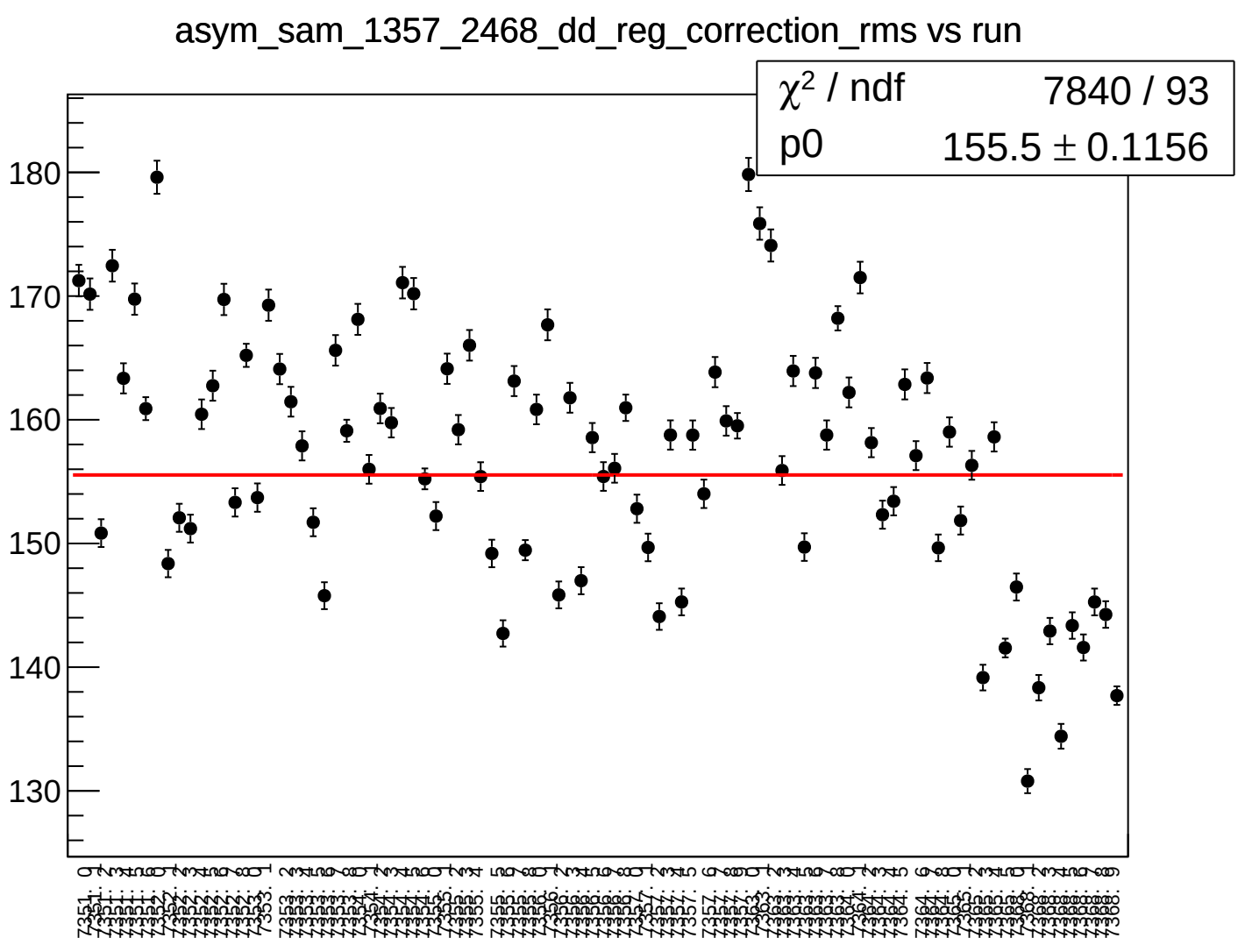

asym_sam_2468_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.482e+05 / 93
p0 7.39e−12 ± 6.831e−15
45
40
35
30
25
20
15
10
5

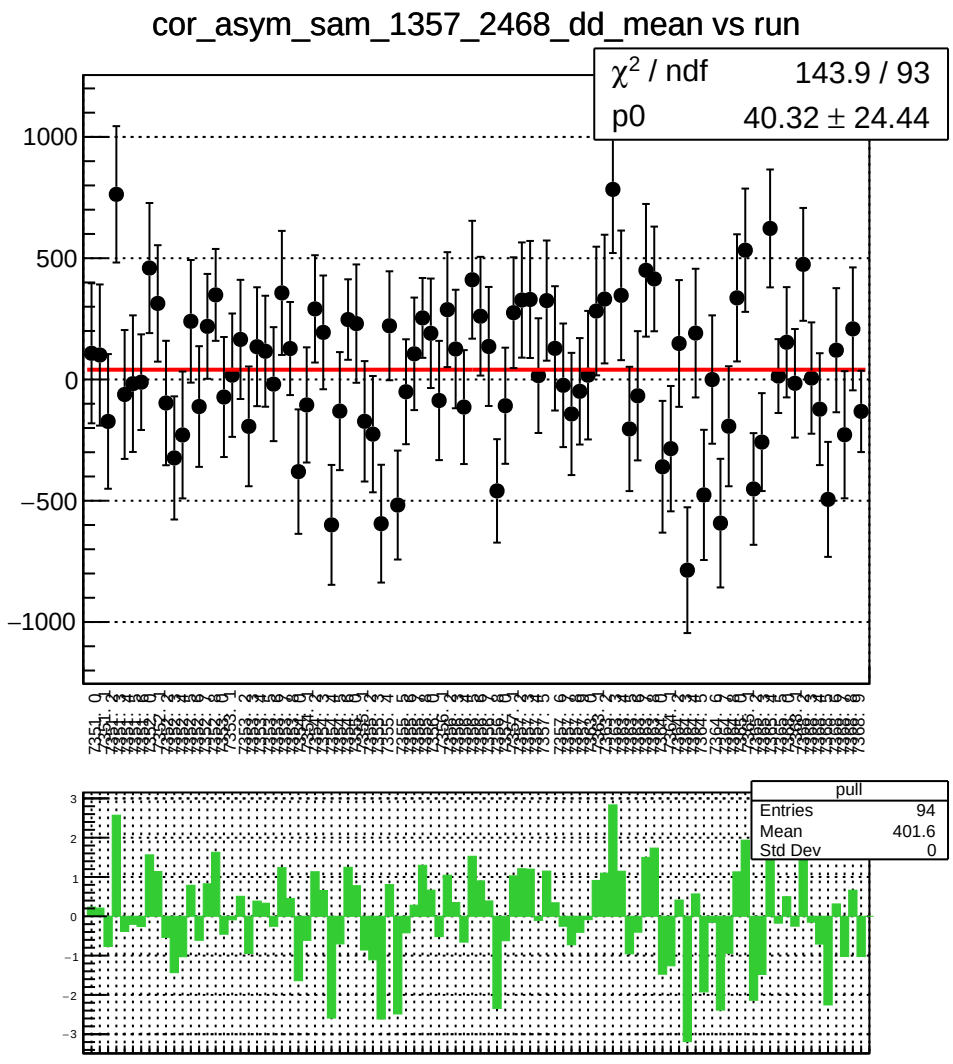

reg_asym_sam_1357_2468_dd_mean vs run
χ^2 / ndf 143.9 / 93
p0 40.32 ± 24.44
1000
500
0
−500
−1000
pull
Entries 94
Mean 401.8
Std Dev 0
3
2
1
0
−1
−2
−3

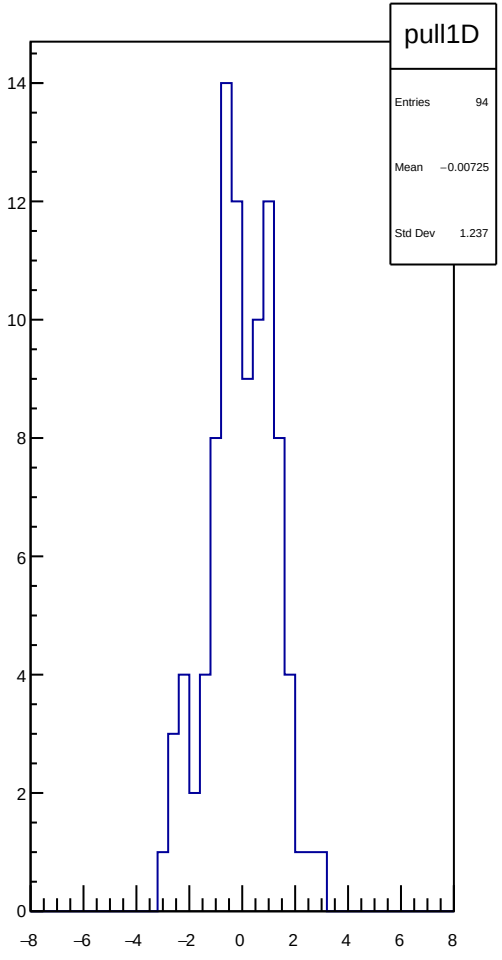

pull1D
Entries 94
Mean −0.007244
Std Dev 1.237
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

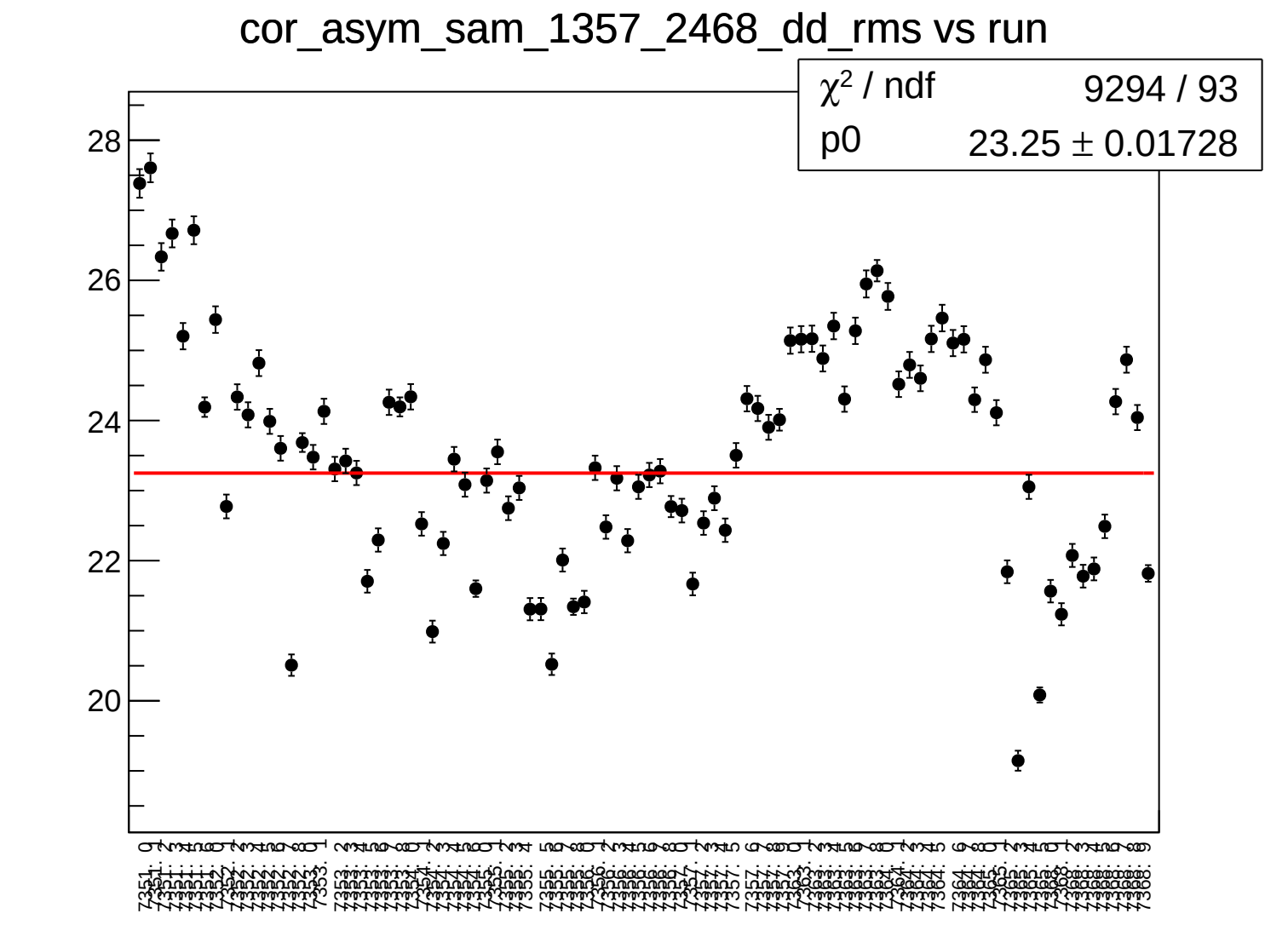

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 9294 / 93
p0 23.25 ± 0.01728
28
26
24
22
20

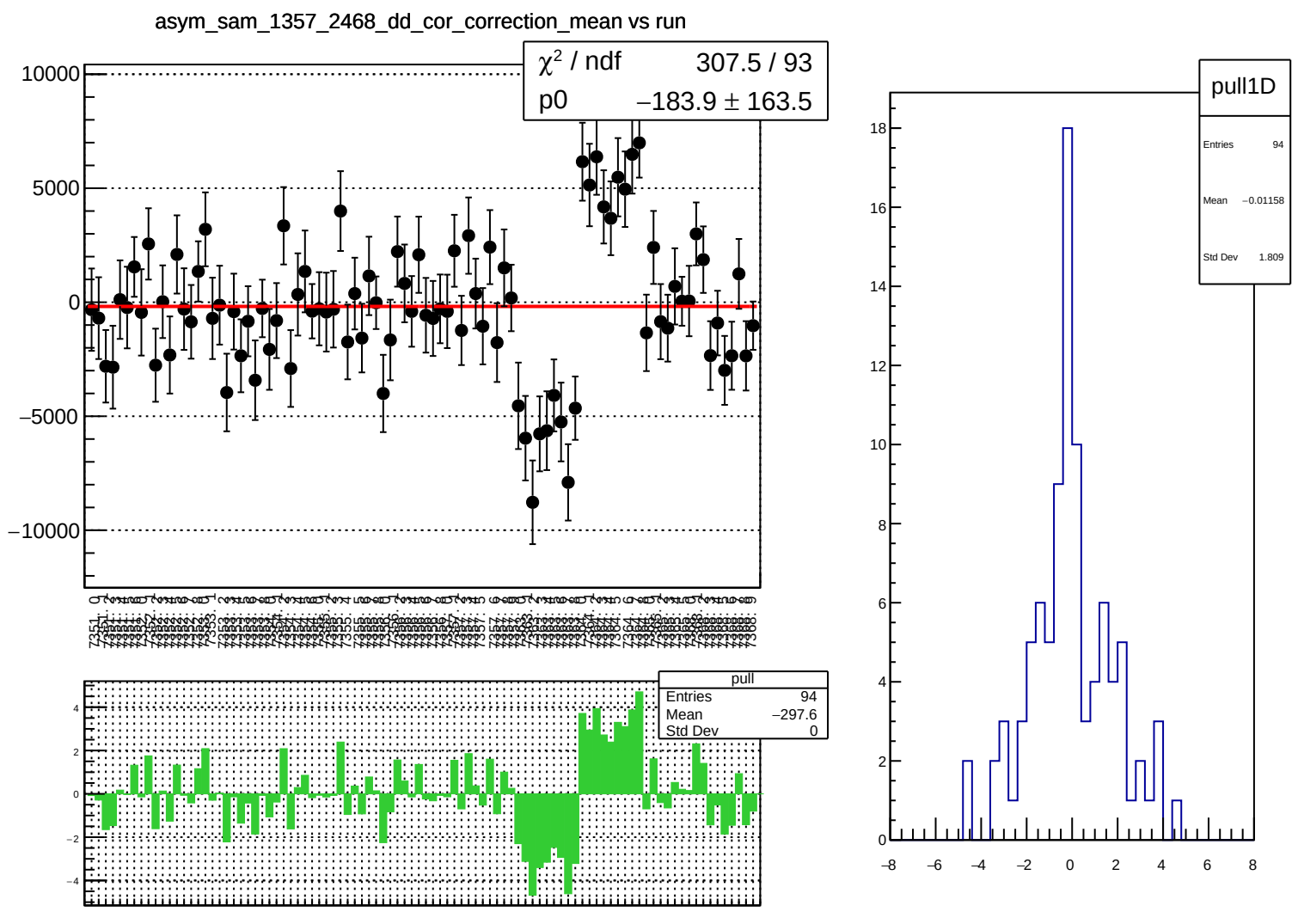

asym_sam_1357_2468_dd_reg_correction_mean vs run
χ² / ndf 307.5 / 93
p0 −183.9 ± 163.5
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −297.6
Std Dev 0
4
2
0
−2
−4
pull1D
Entries 94
Mean −0.01158
Std Dev 1.809
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

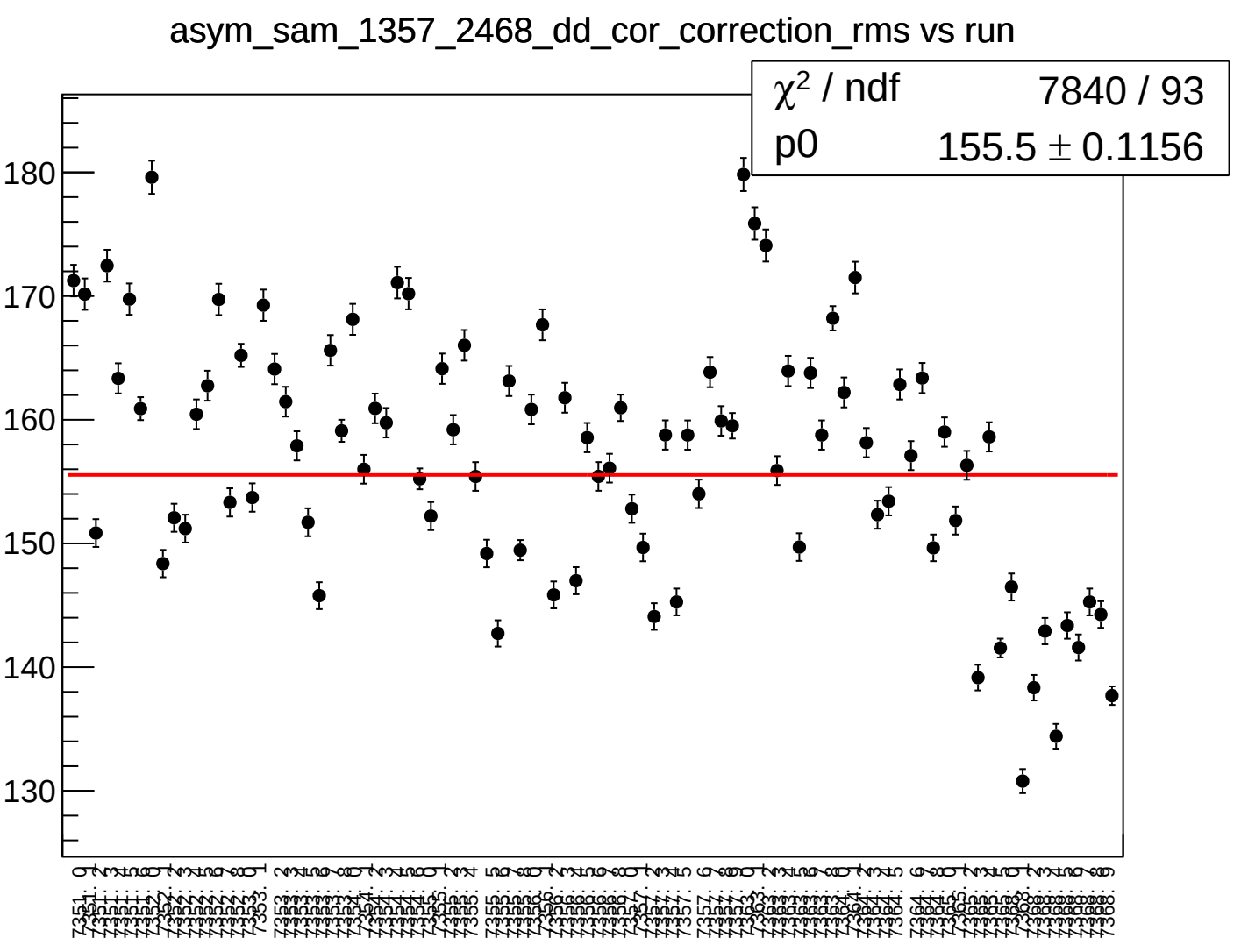

asym_sam_1357_2468_dd_reg_correction_rms vs run
χ² / ndf 7840 / 93
p0 155.5 ± 0.1156
180
170
160
150
140
130

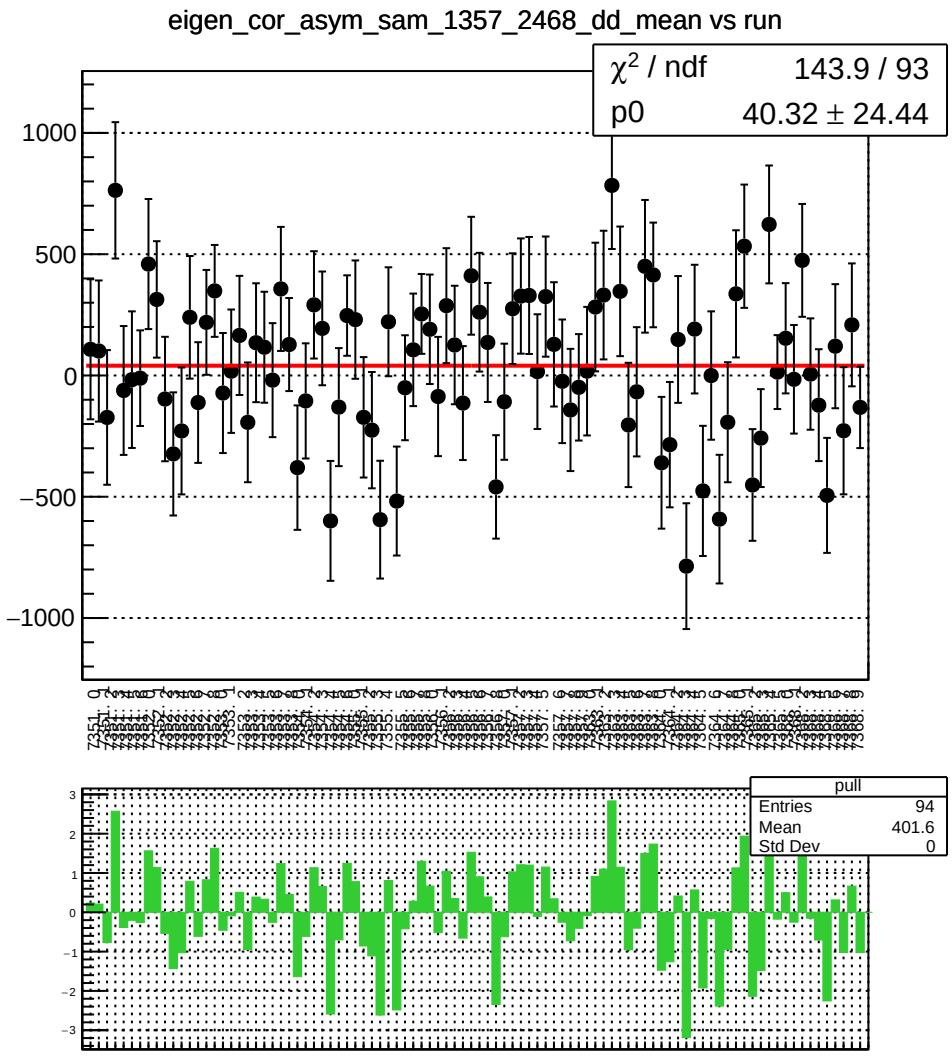

cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 143.9 / 93
p0 40.32 ± 24.44
1000
500
0
−500
−1000
pull
Entries 94
Mean 401.6
Std Dev 0
3
2
1
0
−1
−2
−3

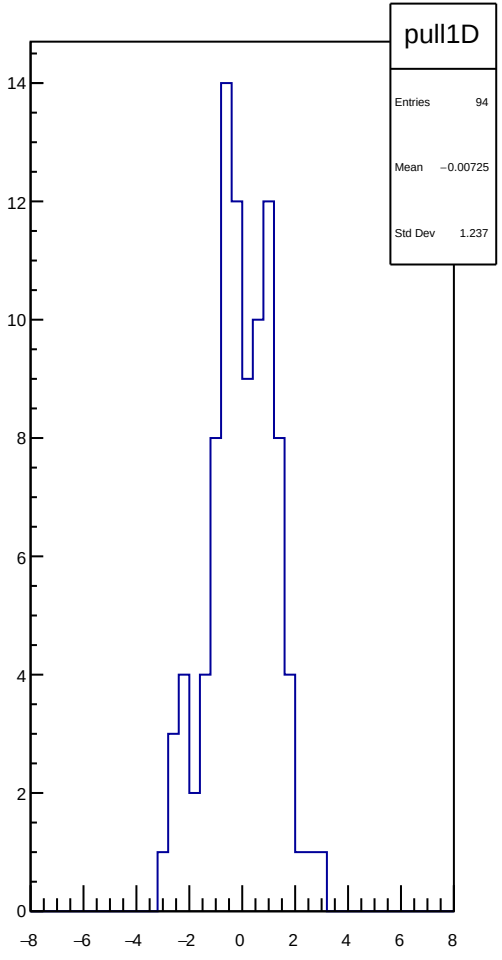

pull1D
Entries 94
Mean −0.00725
Std Dev 1.237
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

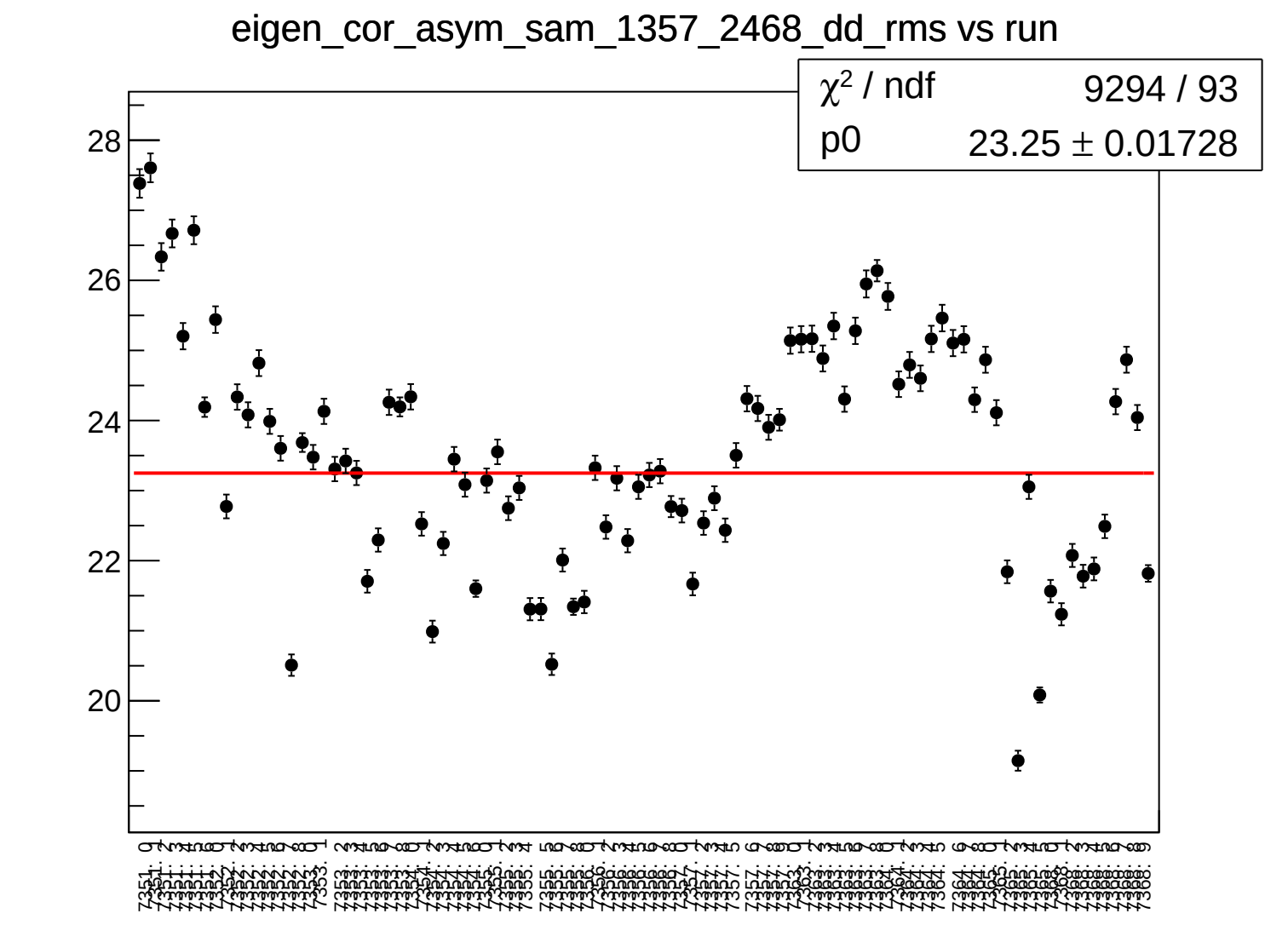

cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 9294 / 93
p0 23.25 ± 0.01728
28
26
24
22
20

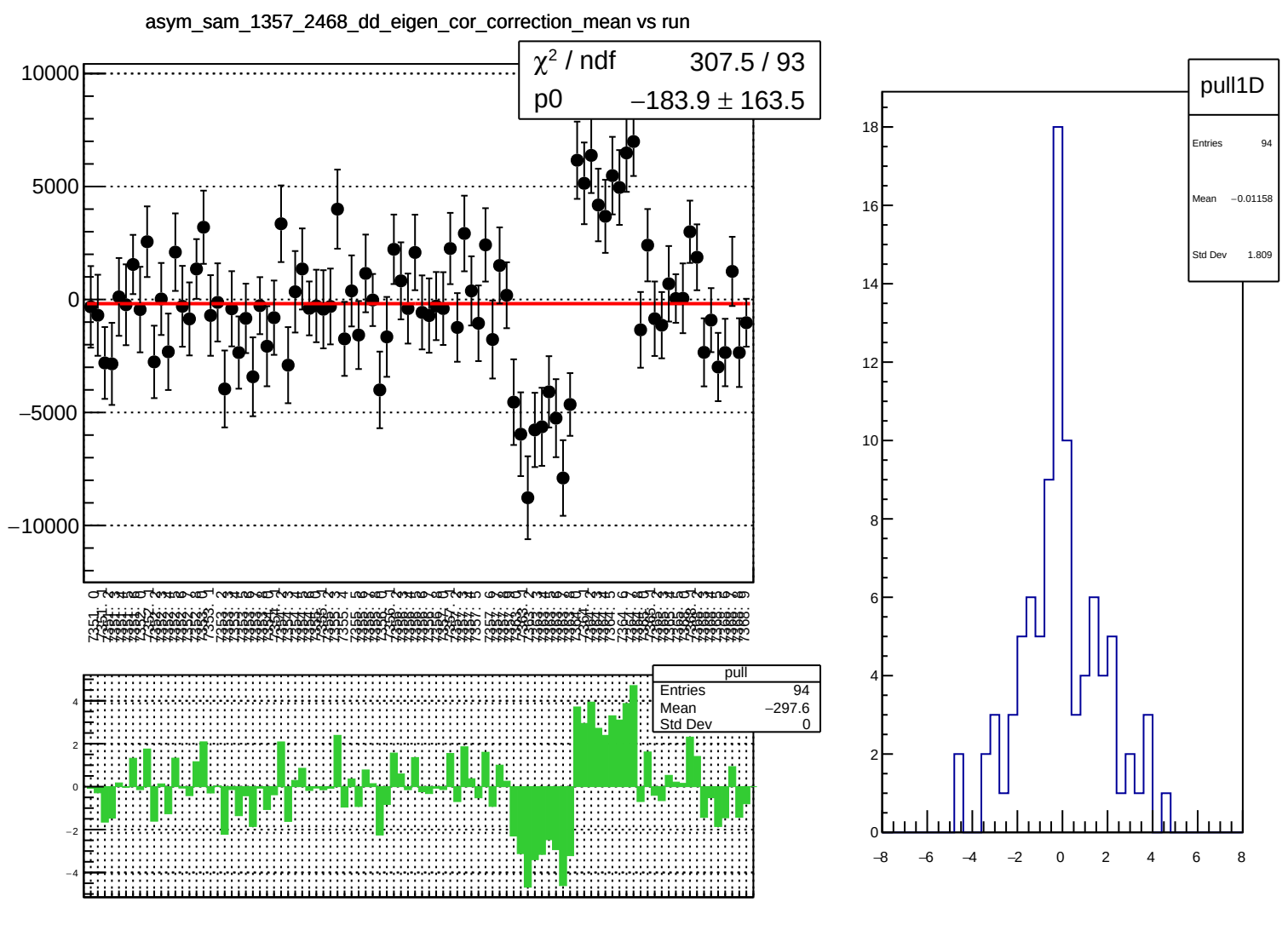

asym_sam_1357_2468_dd_cor_correction_mean vs run
χ² / ndf 307.5 / 93
p0 −183.9 ± 163.5
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −297.6
Std Dev 0
4
2
0
−2
−4
pull1D
Entries 94
Mean −0.01158
Std Dev 1.809
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

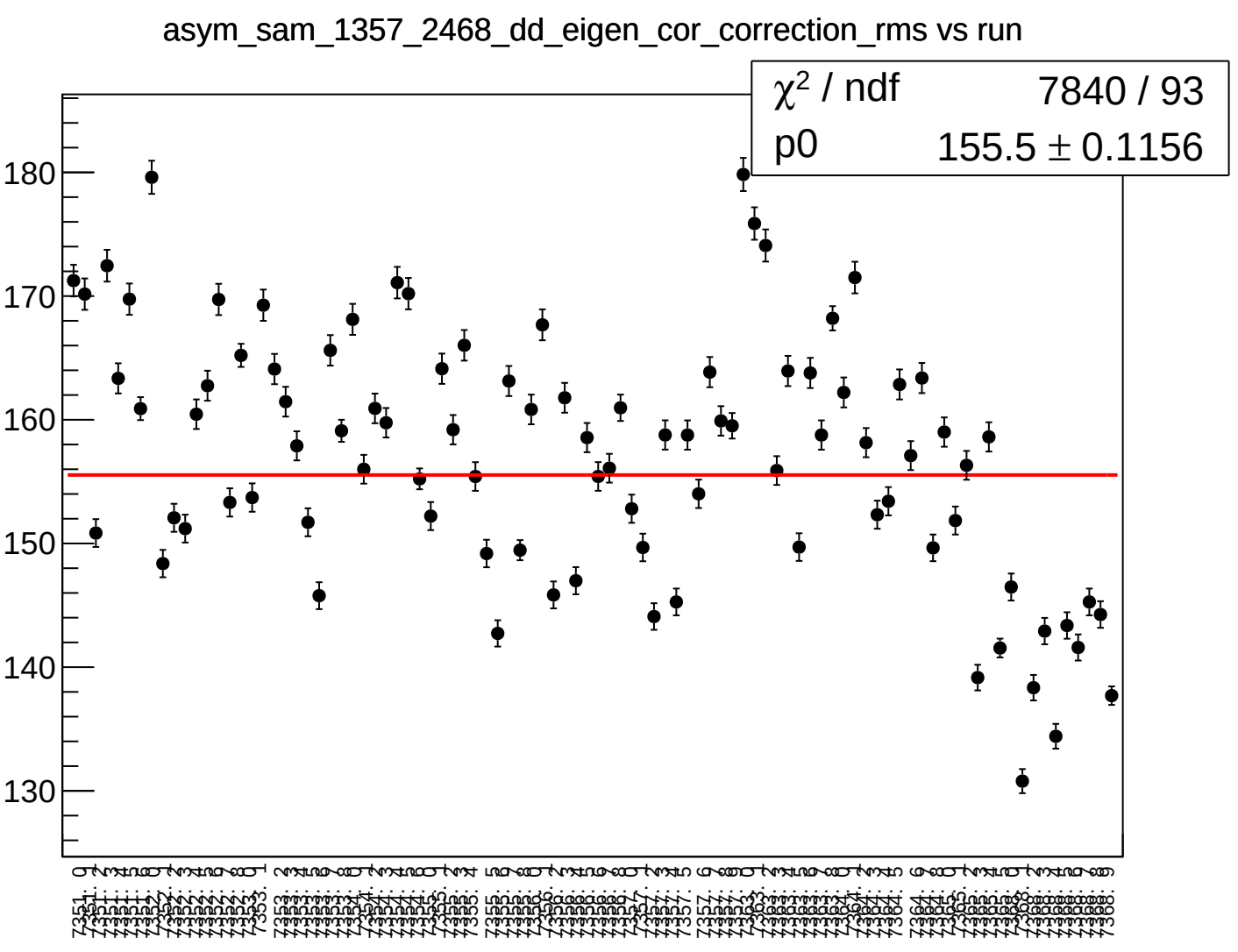

asym_sam_1357_2468_dd_cor_correction_rms vs run
χ² / ndf 7840 / 93
p0 155.5 ± 0.1156
180
170
160
150
140
130

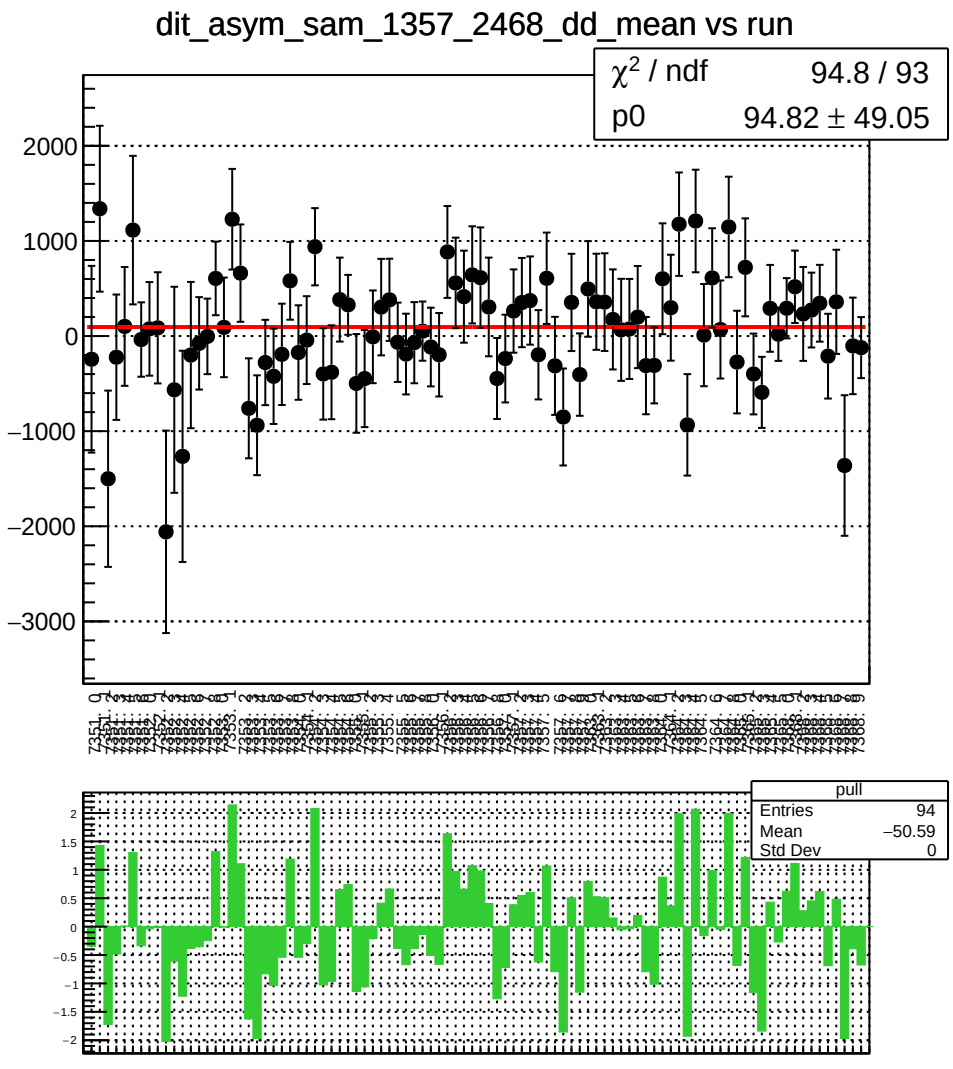

eigen_cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 143.9 / 93
p0 40.32 ± 24.44
1000
500
0
−500
−1000
pull
Entries 94
Mean 401.6
Std Dev 0
3
2
1
0
−1
−2
−3

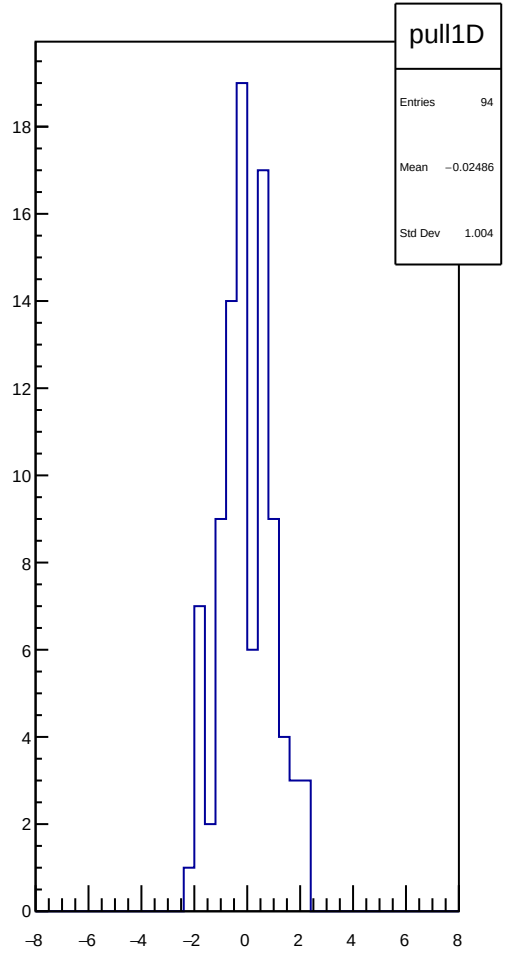

pull1D
Entries 94
Mean −0.00725
Std Dev 1.237
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

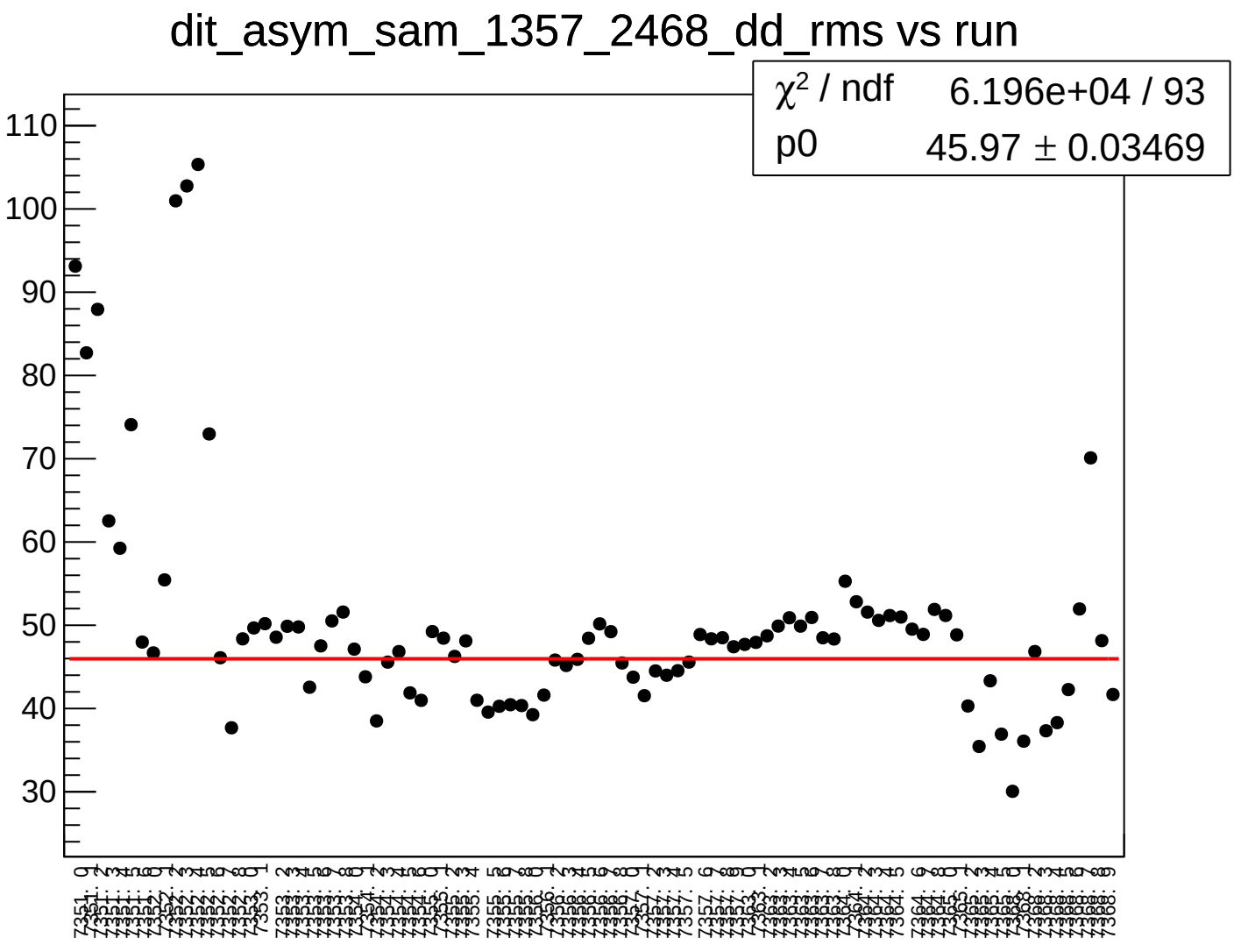

eigen_cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 9294 / 93
p0 23.25 ± 0.01728
28
26
24
22
20

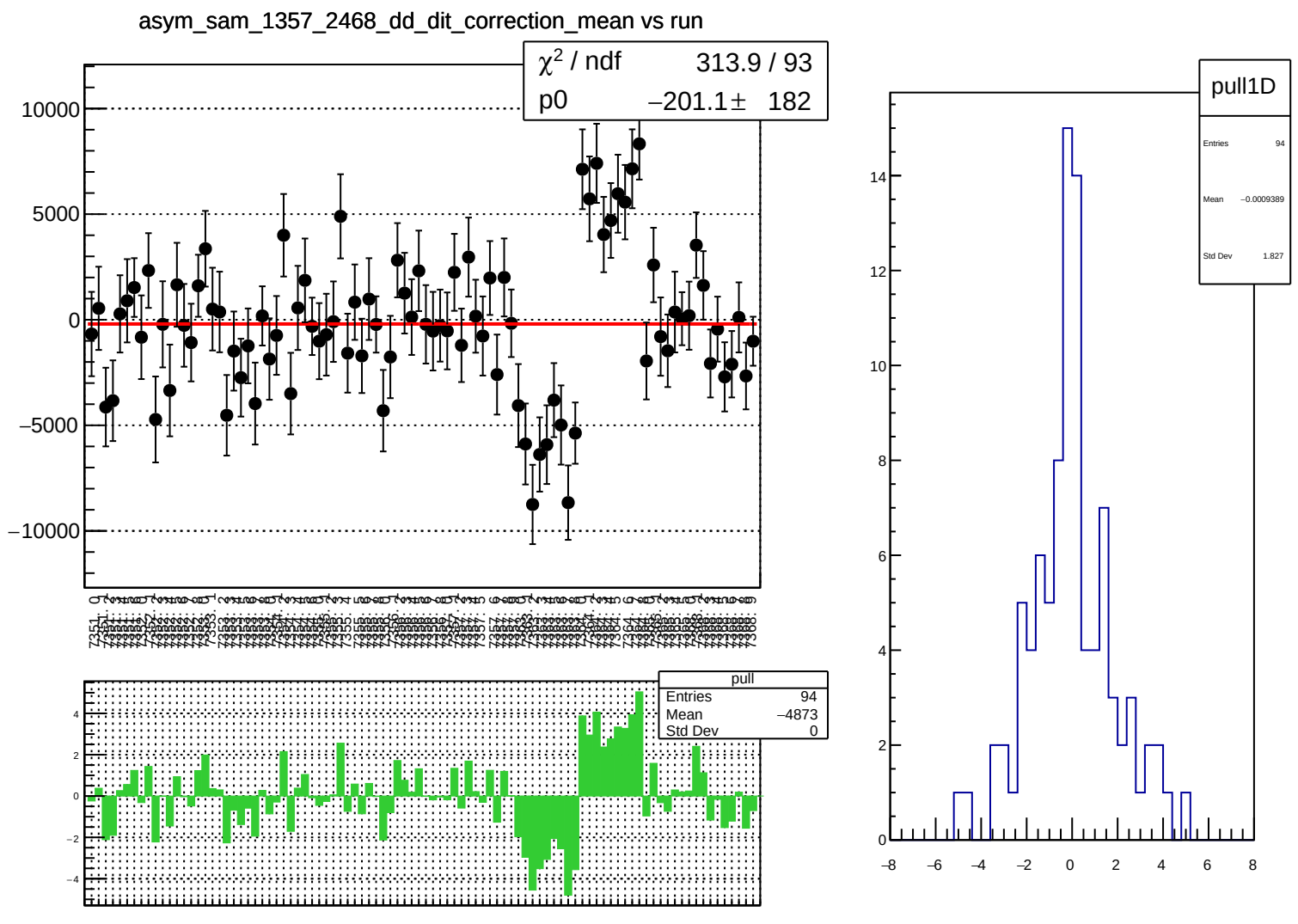

asym_sam_1357_2468_dd_eigen_cor_correction_mean vs run
χ² / ndf 307.5 / 93
p0 −183.9 ± 163.5
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −297.6
Std Dev 0
4
2
0
−2
−4
pull1D
Entries 94
Mean −0.01158
Std Dev 1.809
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

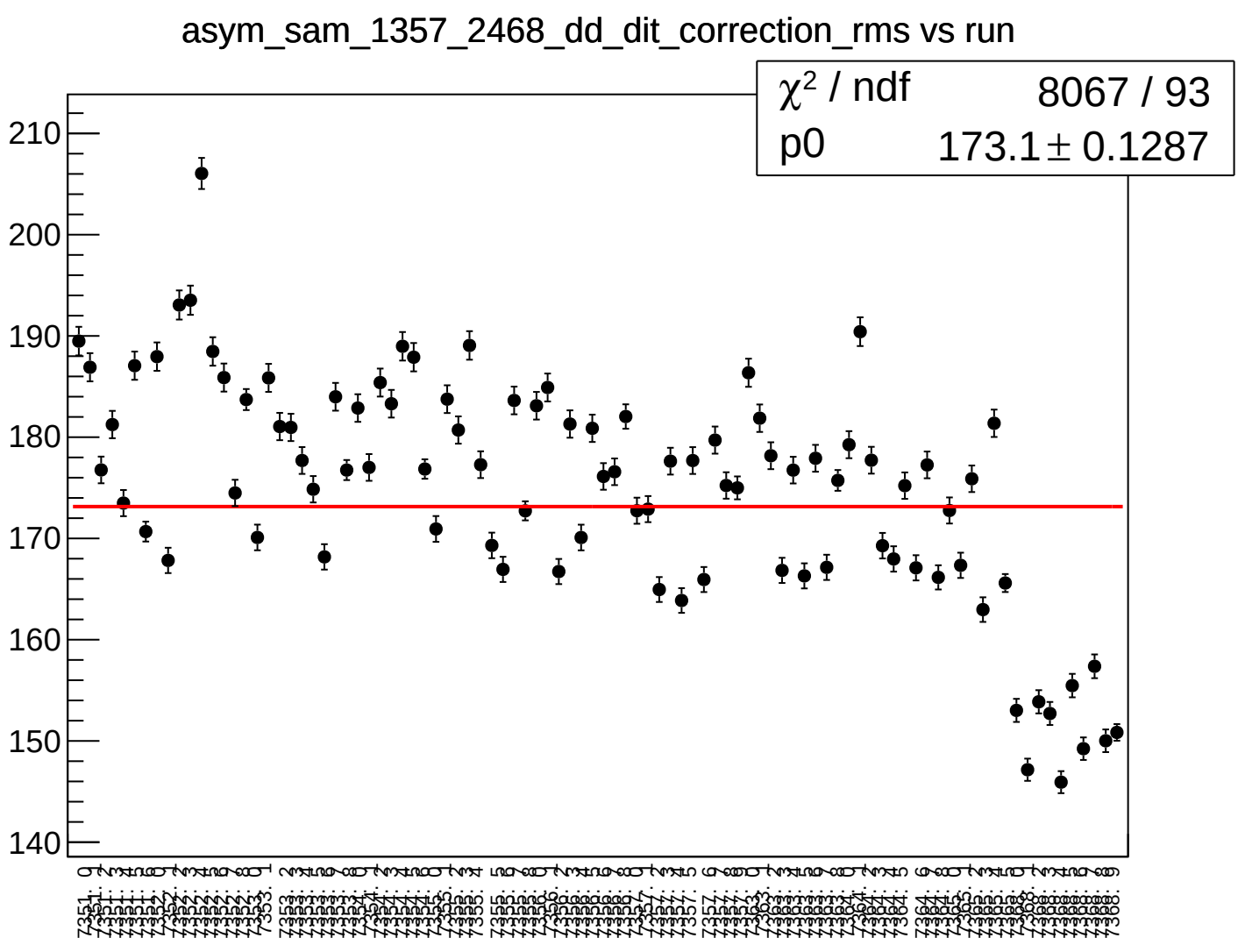

asym_sam_1357_2468_dd_eigen_cor_correction_rms vs run
χ² / ndf 7840 / 93
p0 155.5 ± 0.1156
180
170
160
150
140
130

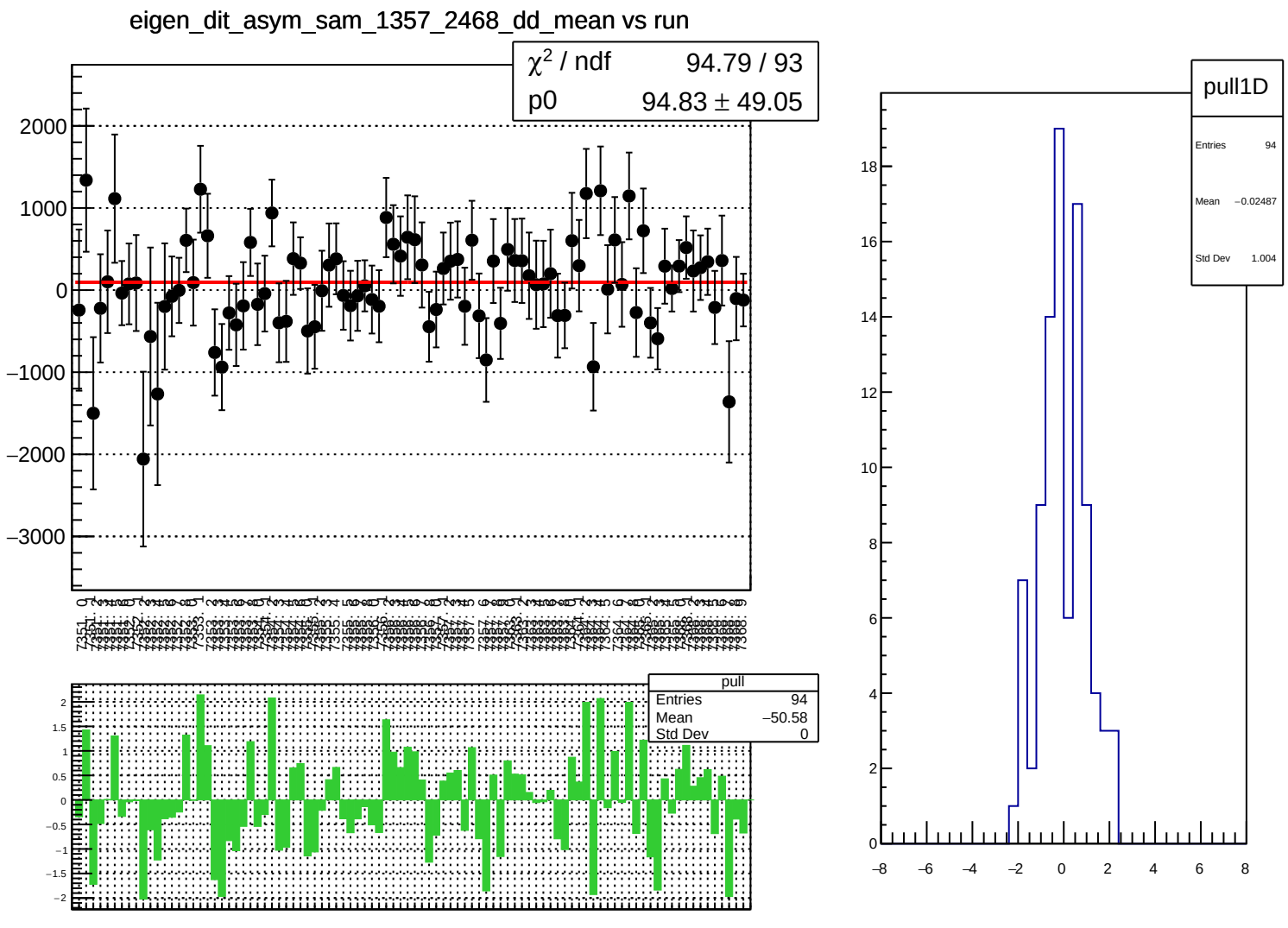

dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 94.8 / 93
p0 94.82 ± 49.05
2000
1000
0
−1000
−2000
−3000
pull
Entries 94
Mean −50.59
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

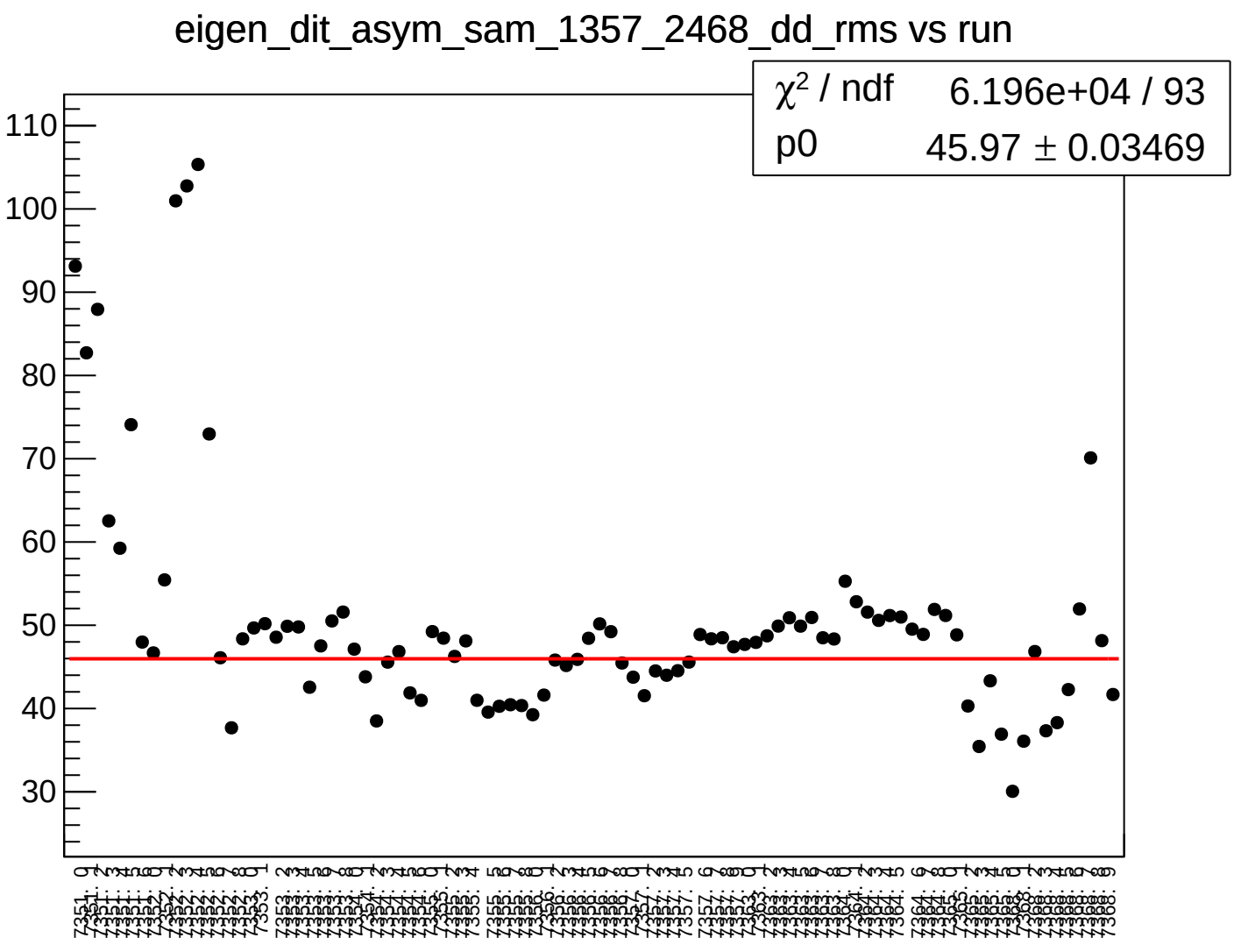

pull1D
Entries 94
Mean −0.02486
Std Dev 1.004
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

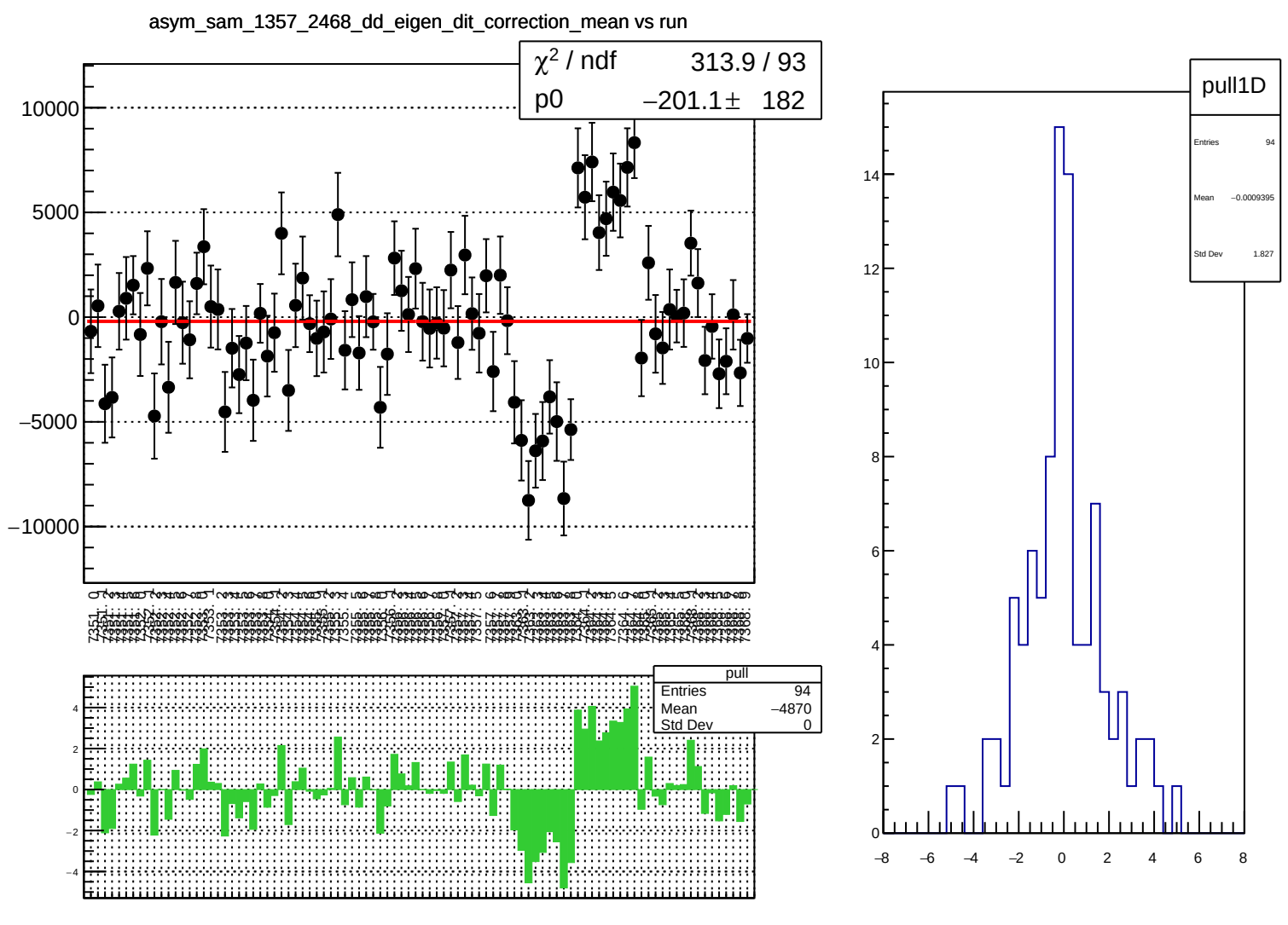

dit_asym_sam_1357_2468_dd_rms vs run
χ^2 / ndf 6.196e+04 / 93
p0 45.97 ± 0.03469
110
100
90
80
70
60
50
40
30

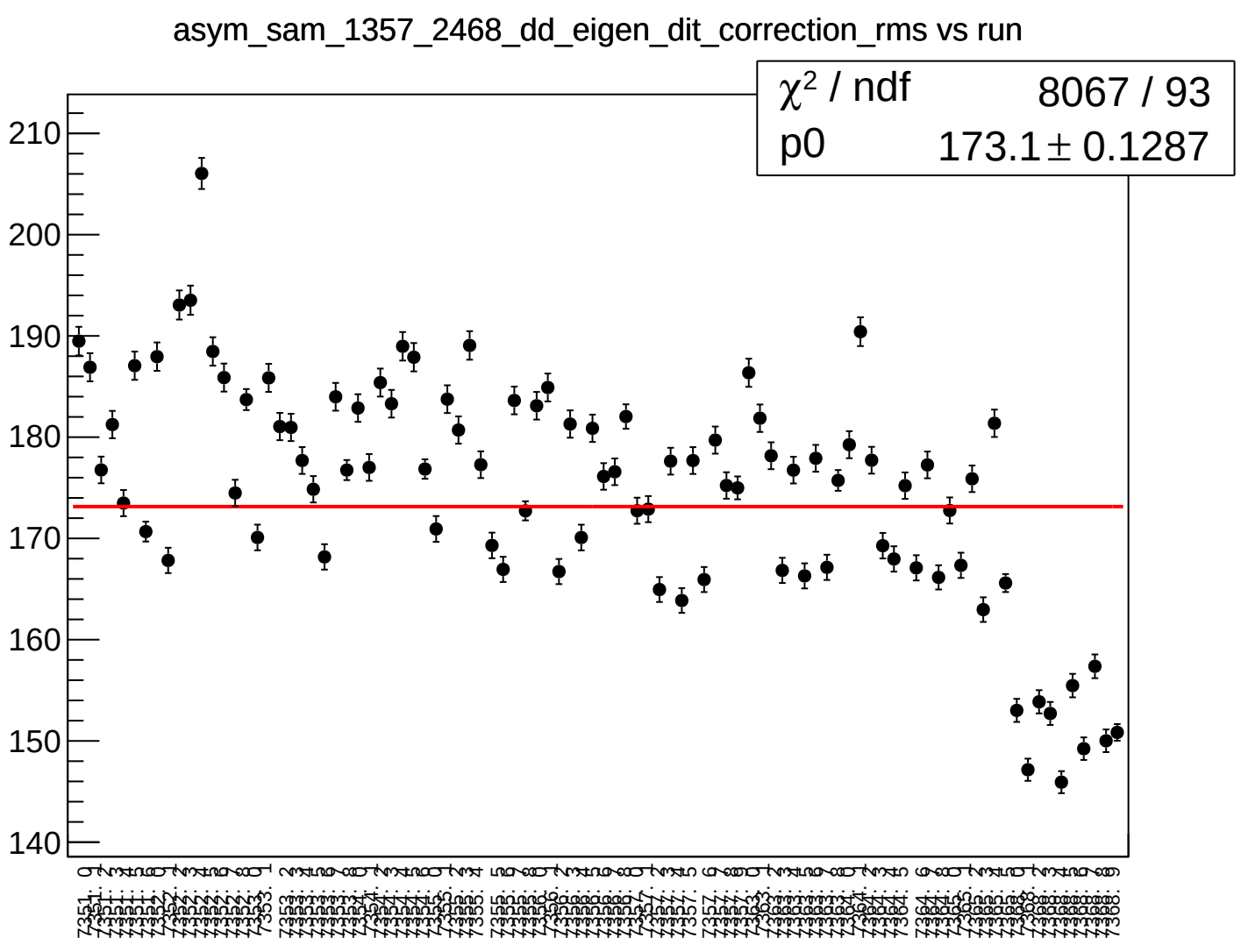

asym_sam_1357_2468_dd_dit_correction_mean vs run
χ² / ndf 313.9 / 93
p0 −201.1± 182
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −4873
Std Dev 0
4
2
0
−2
−4
pull1D
Entries 94
Mean −0.0009389
Std Dev 1.827
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

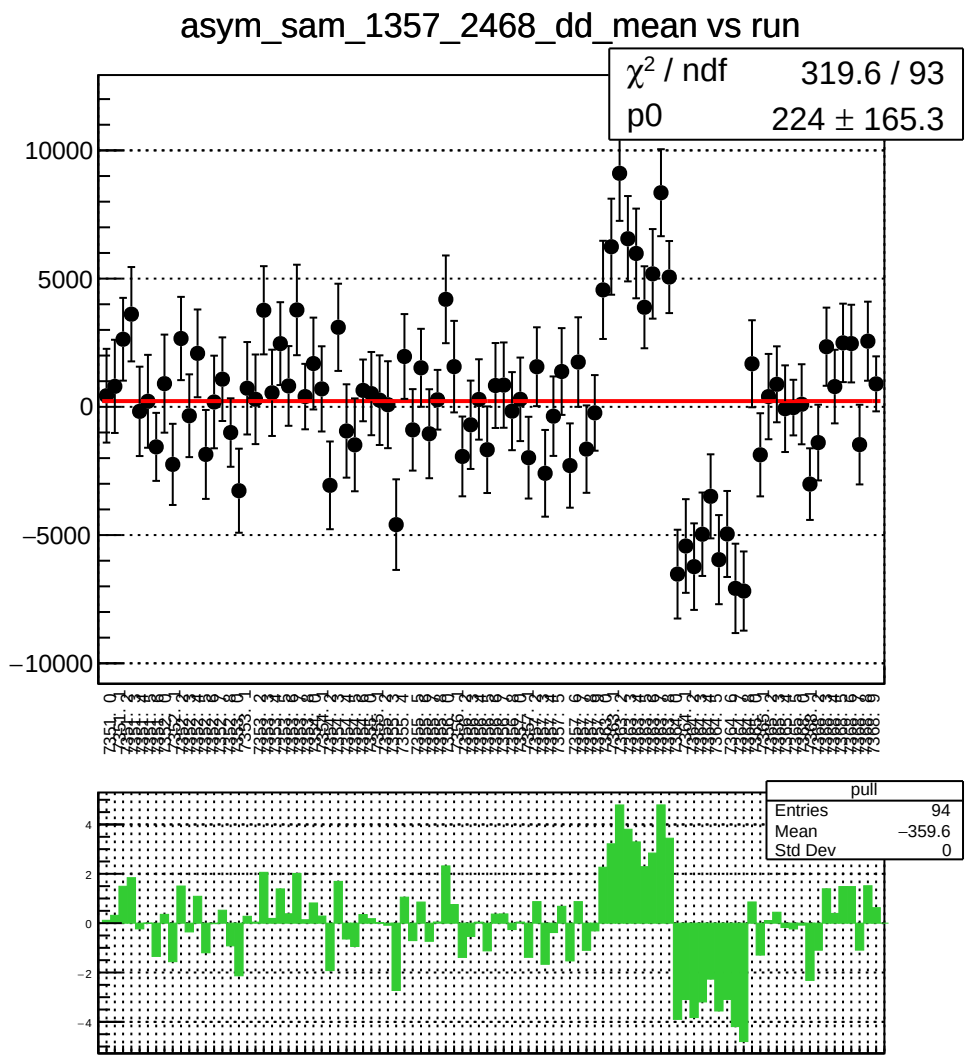

asym_sam_1357_2468_dd_dit_correction_rms vs run
χ² / ndf 8067 / 93
p0 173.1 ± 0.1287
210
200
190
180
170
160
150
140

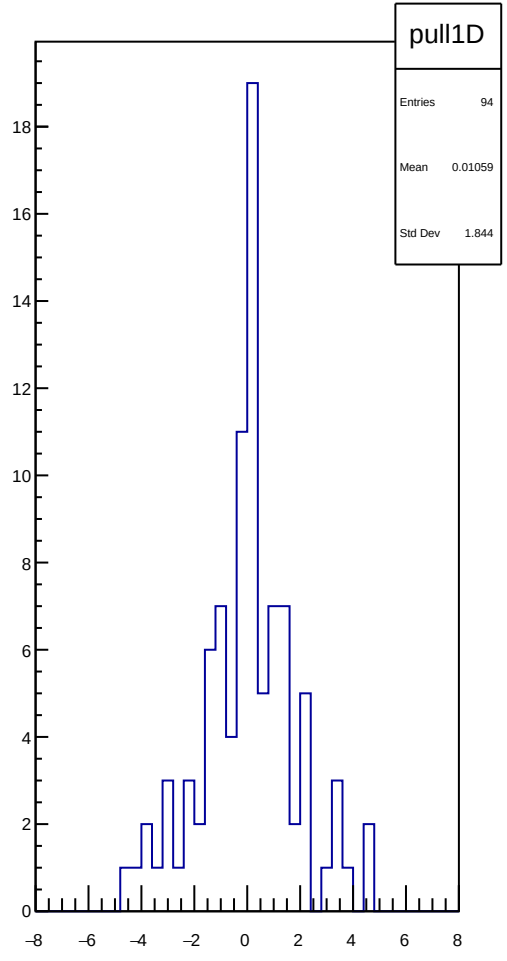

eigen_dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 94.79 / 93
p0 94.83 ± 49.05
2000
1000
0
−1000
−2000
−3000
pull
Entries 94
Mean −50.58
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean −0.02487
Std Dev 1.004
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

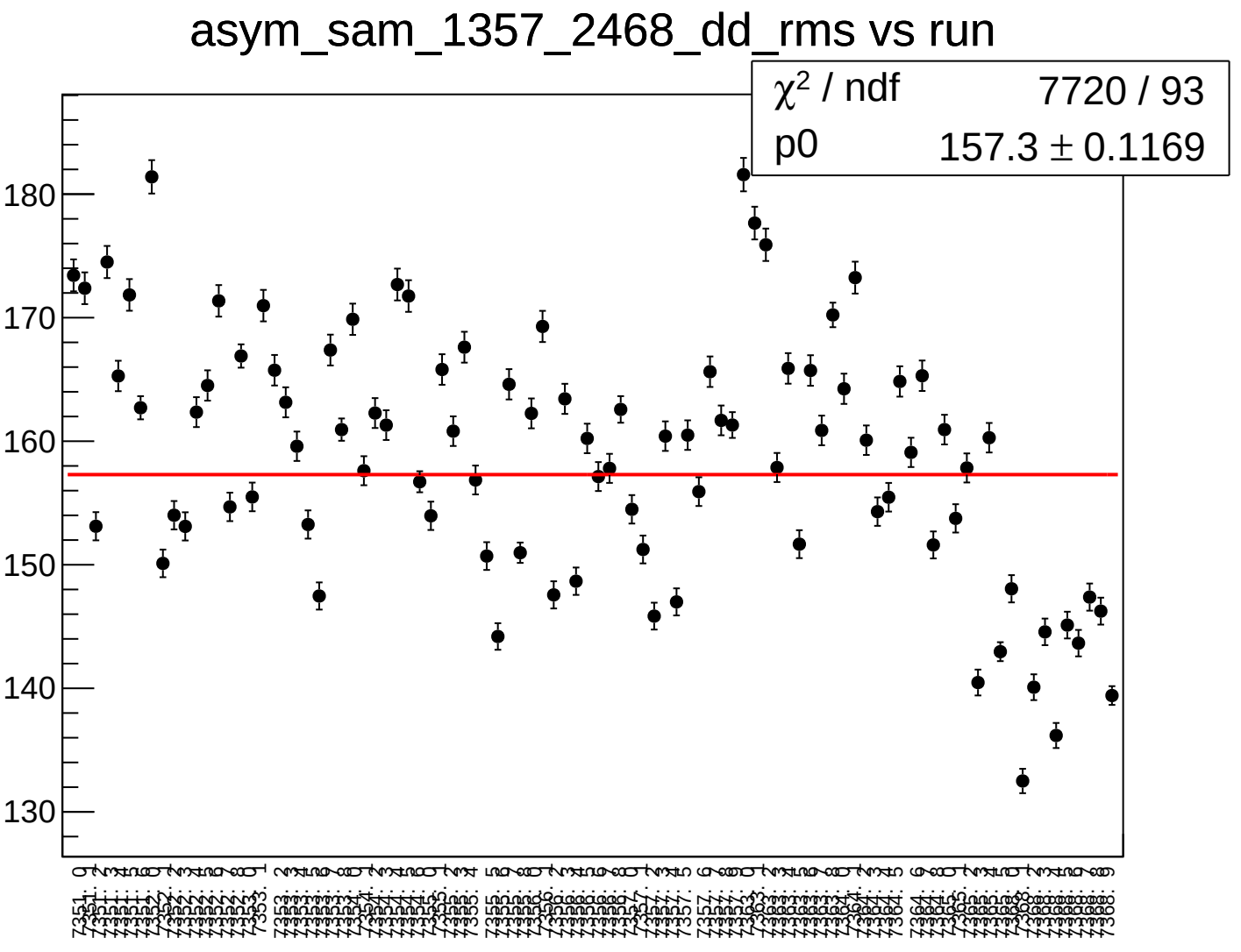

eigen_dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 6.196e+04 / 93
p0 45.97 ± 0.03469
110
100
90
80
70
60
50
40
30

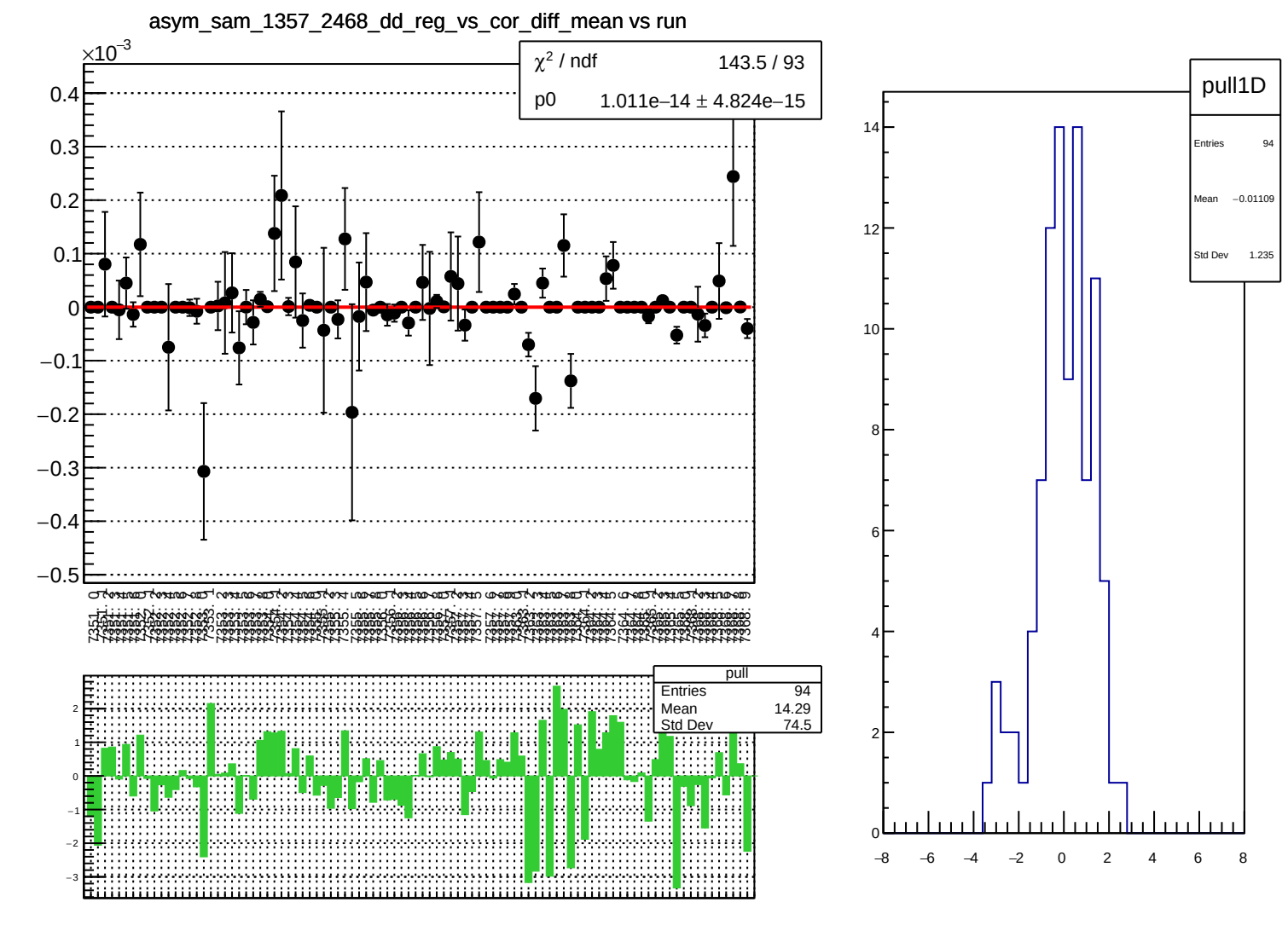

asym_sam_1357_2468_dd_eigen_dit_correction_mean vs run
χ² / ndf 313.9 / 93
p0 −201.1± 182
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −4870
Std Dev 0
4
2
0
−2
−4
pull1D
Entries 94
Mean −0.0009395
Std Dev 1.827
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

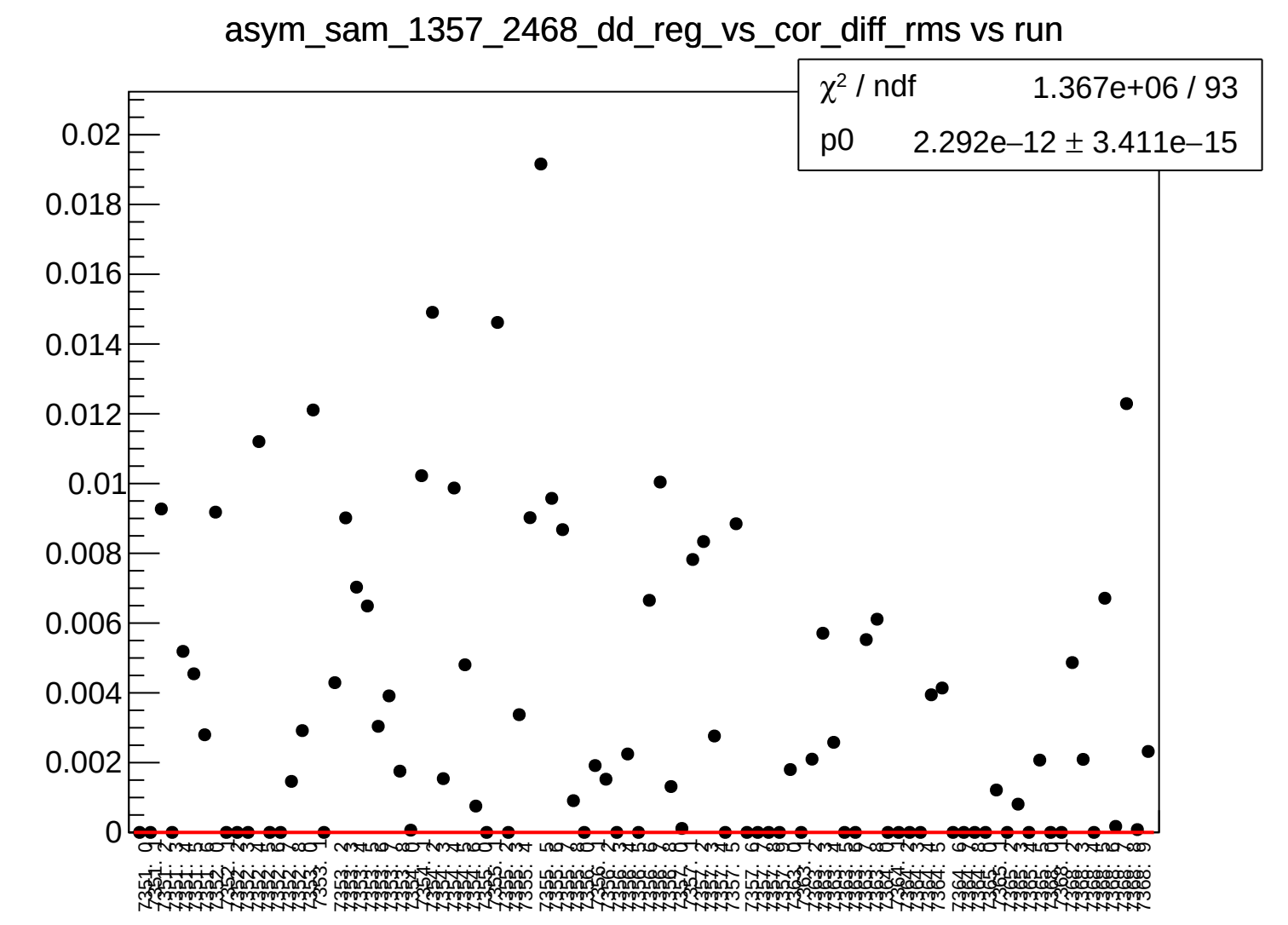

asym_sam_1357_2468_dd_eigen_dit_correction_rms vs run
χ² / ndf 8067 / 93
p0 173.1 ± 0.1287
210
200
190
180
170
160
150
140

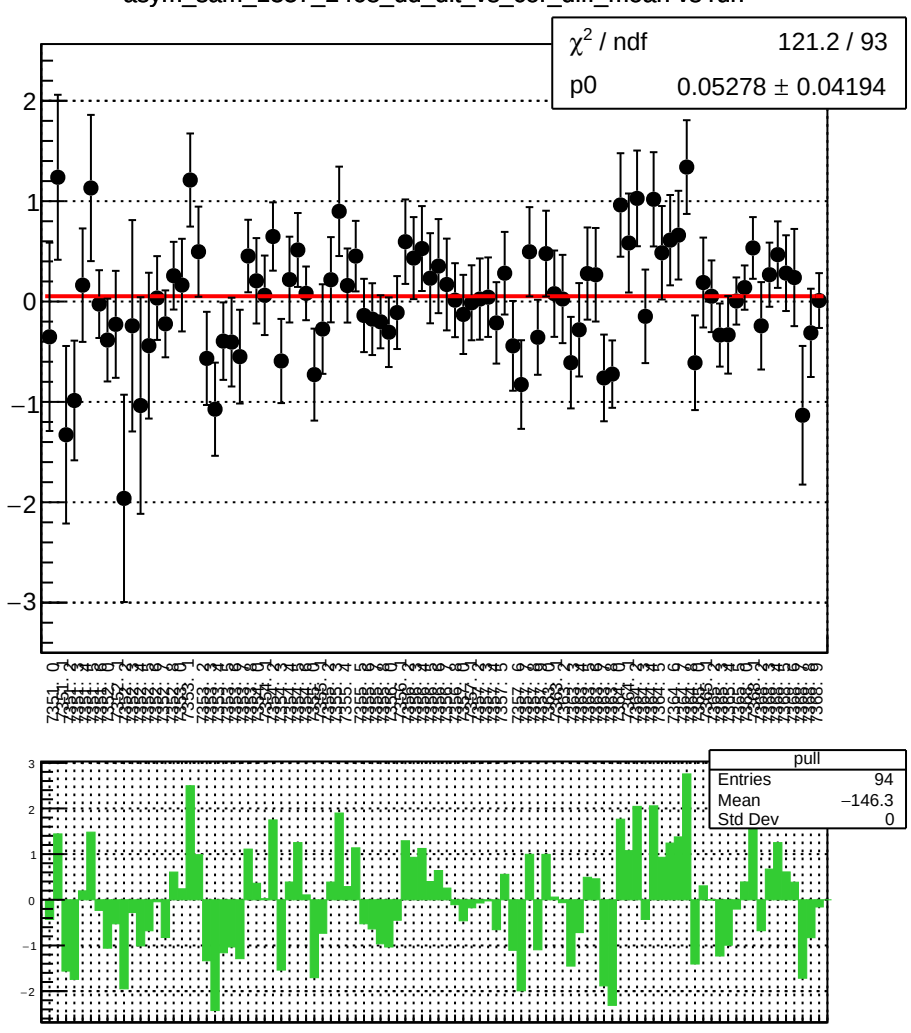

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 319.6 / 93
p0 224 ± 165.3
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −359.6
Std Dev 0
4
2
0
−2
−4

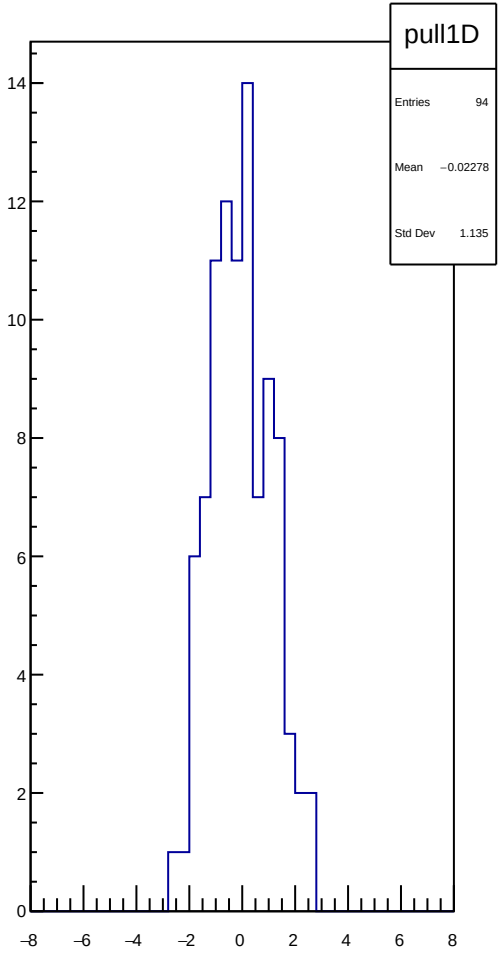

pull1D
Entries 94
Mean 0.01059
Std Dev 1.844
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

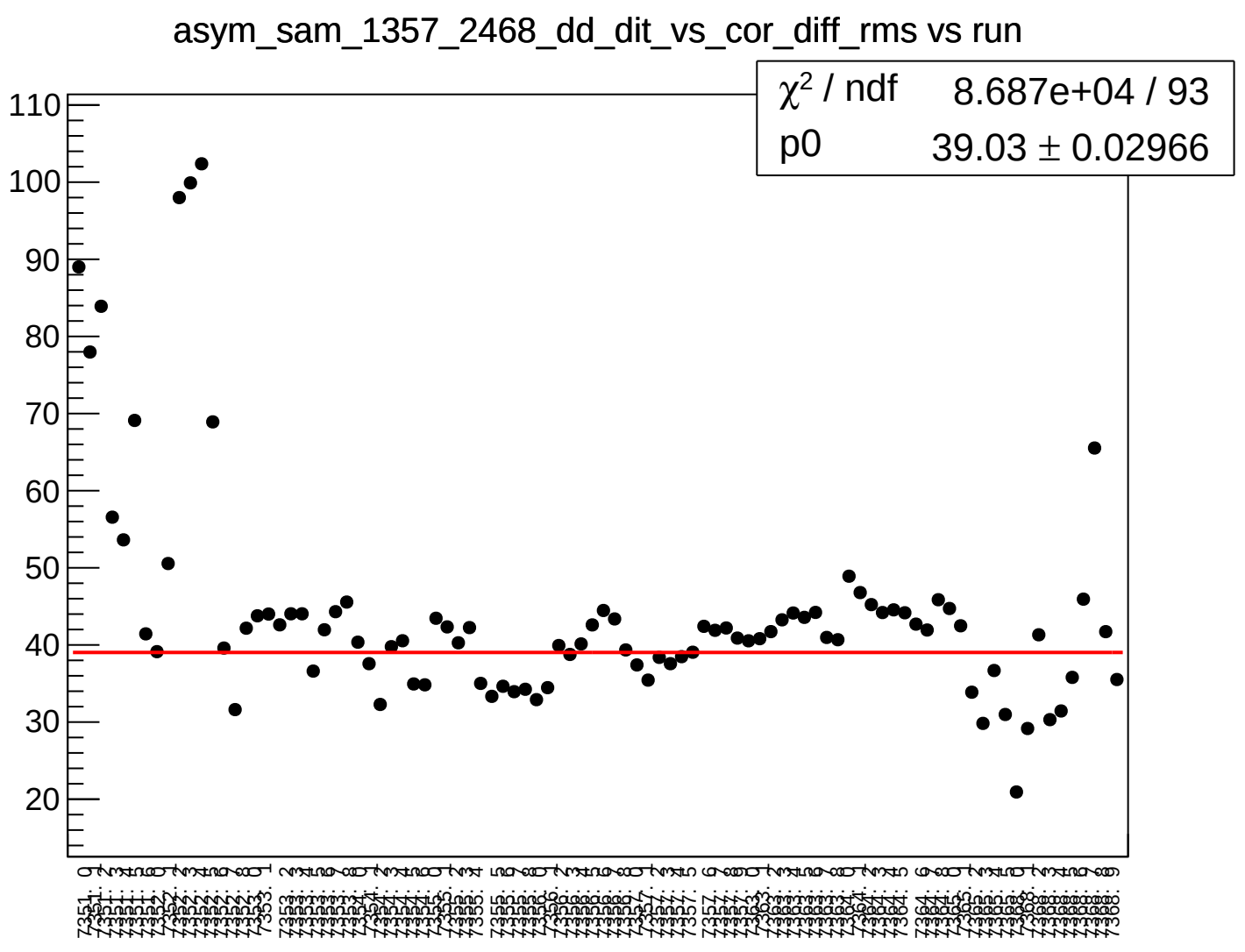

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 7720 / 93
p0 157.3 ± 0.1169
180
170
160
150
140
130

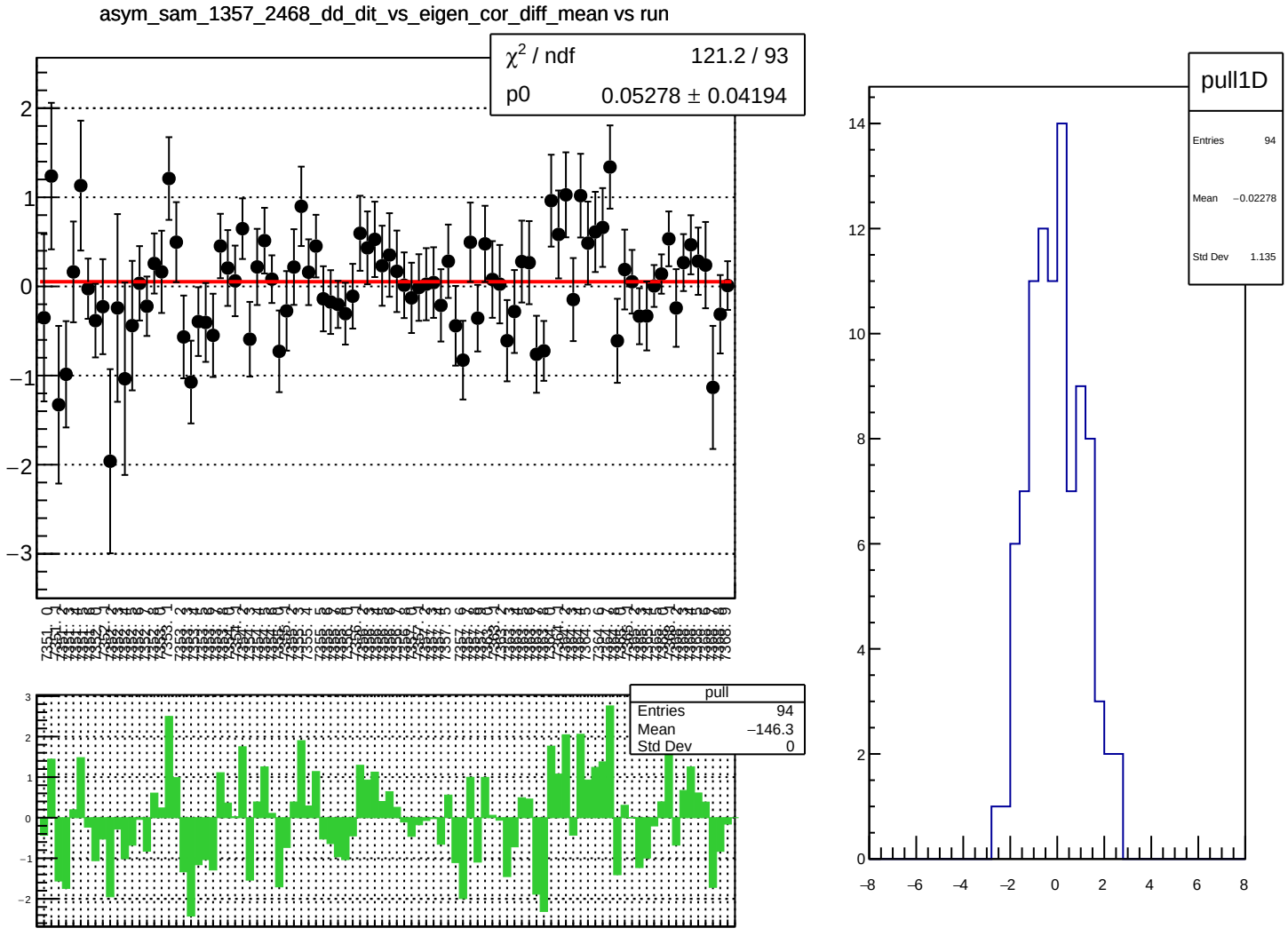

asym_sam_1357_2468_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 143.5 / 93
p0 1.011e−14 ± 4.824e−15
pull
Entries 94
Mean 14.29
Std Dev 74.5
pull1D
Entries 94
Mean −0.01109
Std Dev 1.235

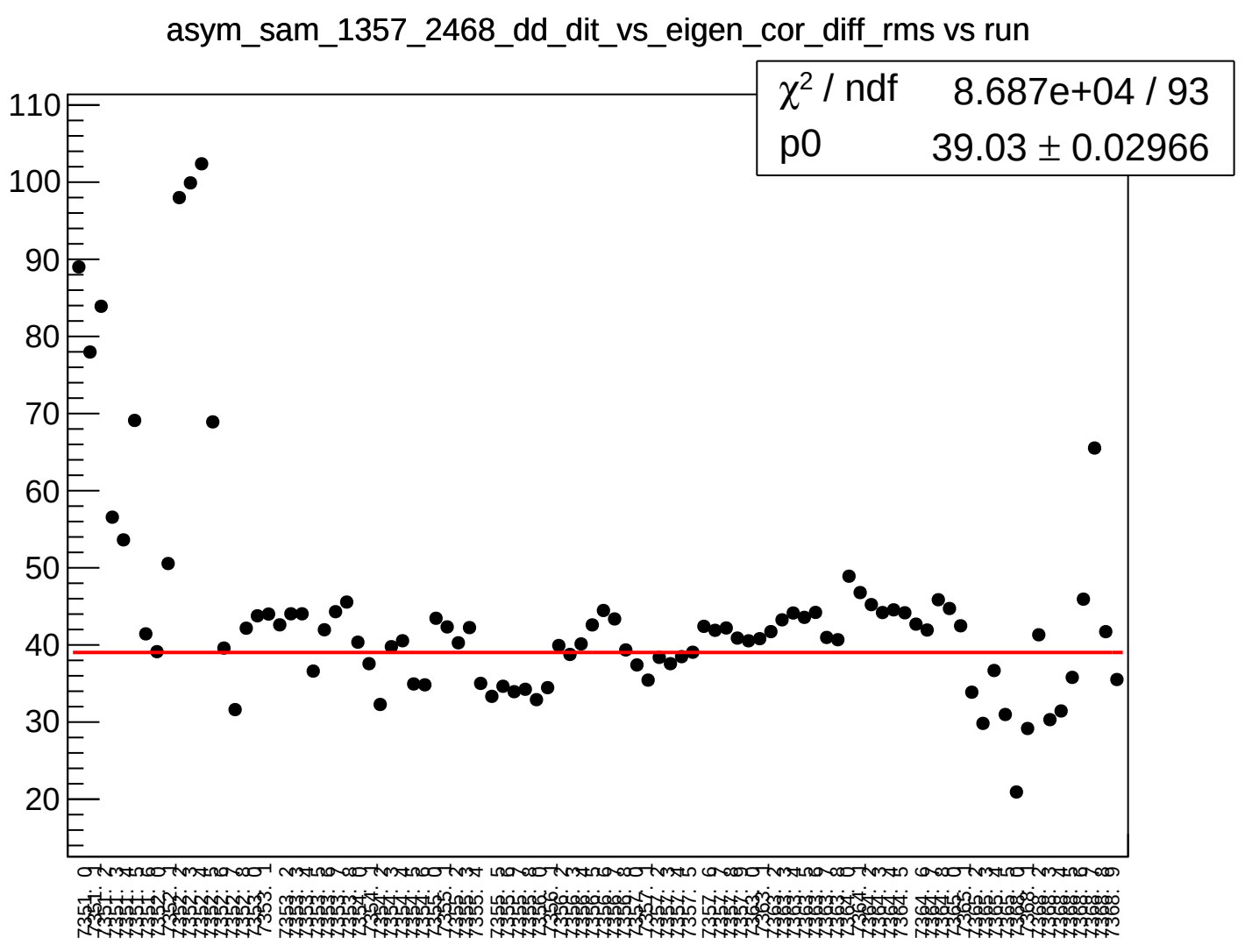

asym_sam_1357_2468_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.367e+06 / 93
p0 2.292e−12 ± 3.411e−15
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0

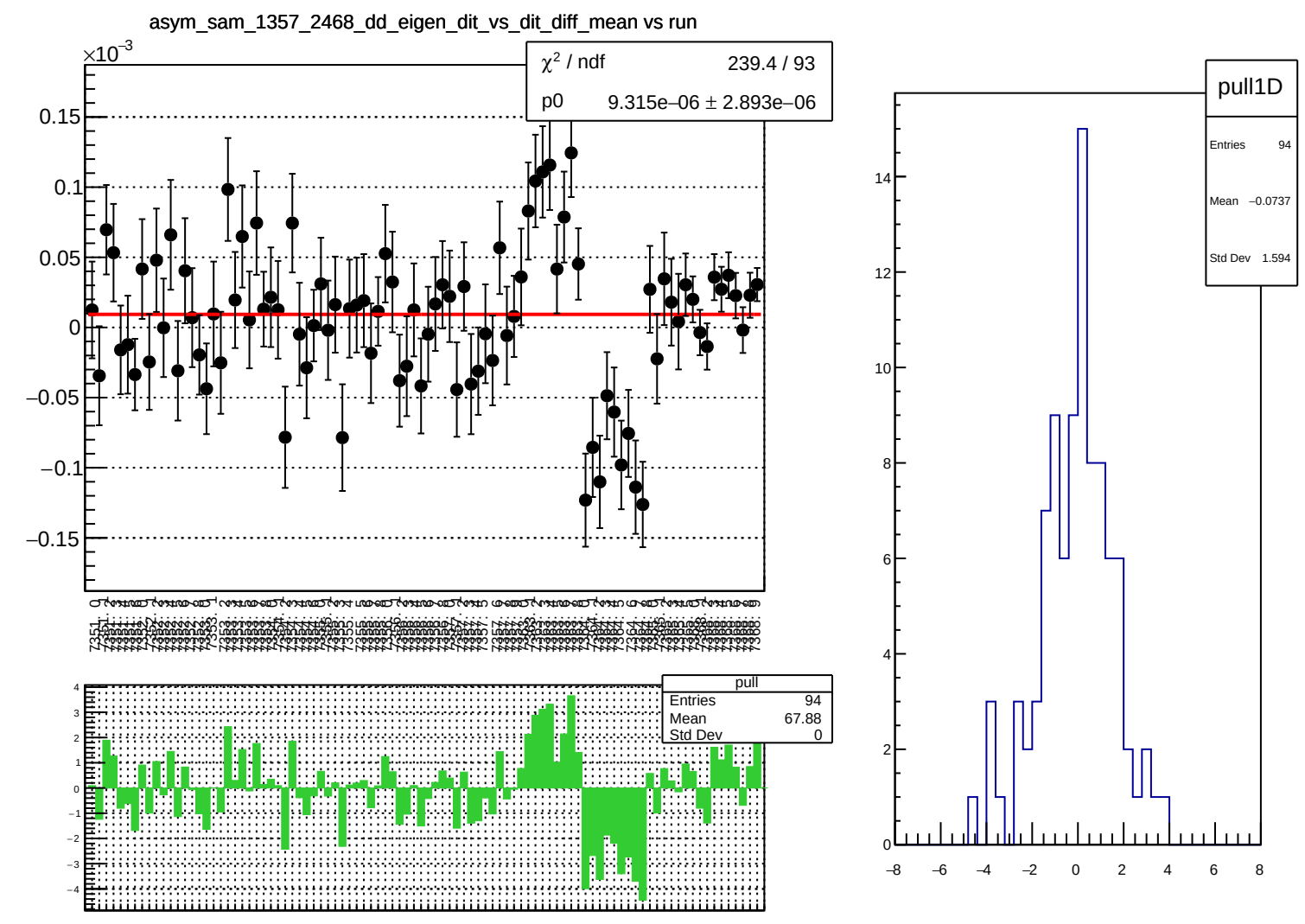

asym_sam_1357_2468_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 121.2 / 93
p0 0.05278 ± 0.04194
pull
Entries 94
Mean −146.3
Std Dev 0

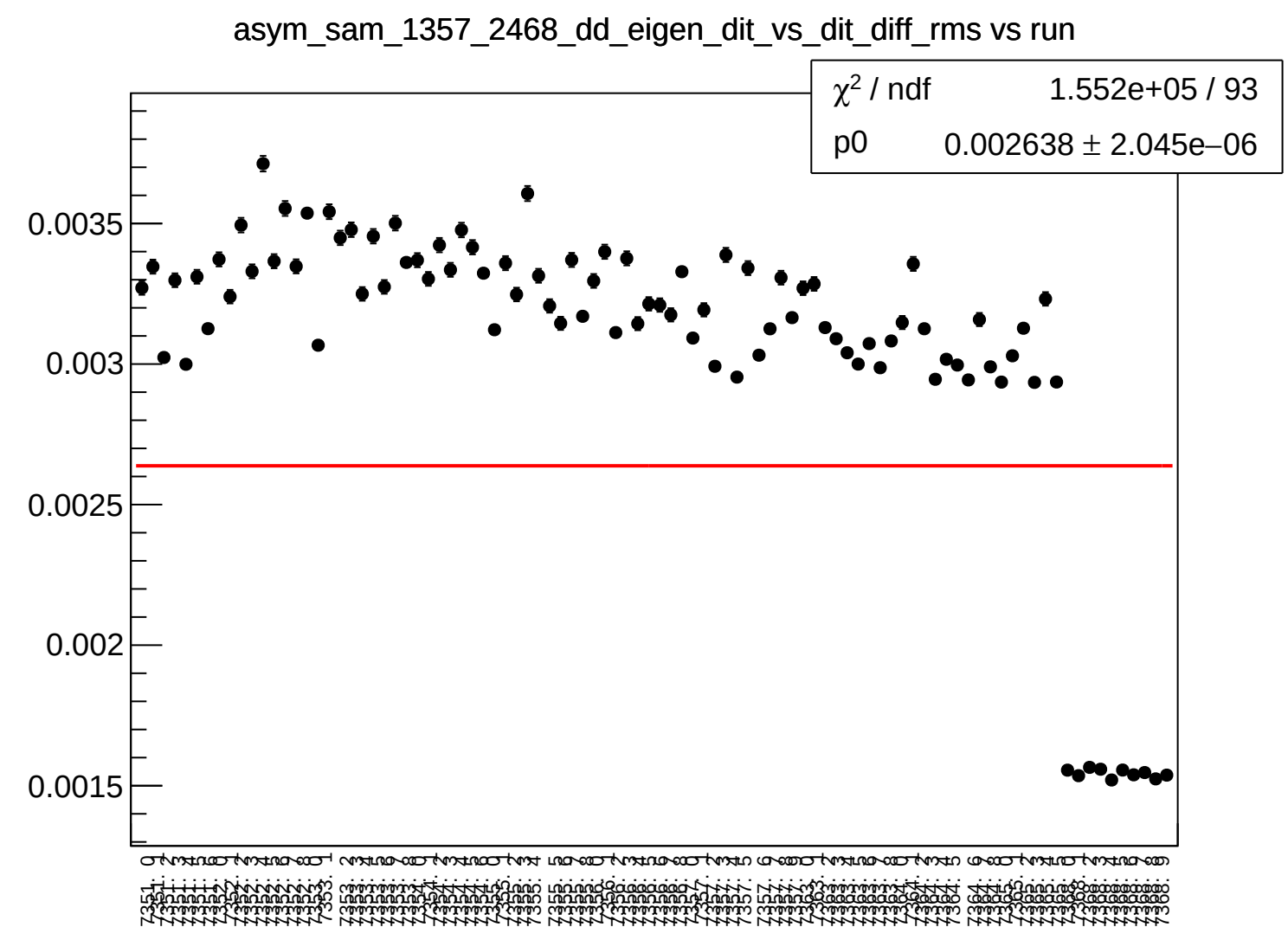

pull1D
Entries 94
Mean −0.02278
Std Dev 1.135

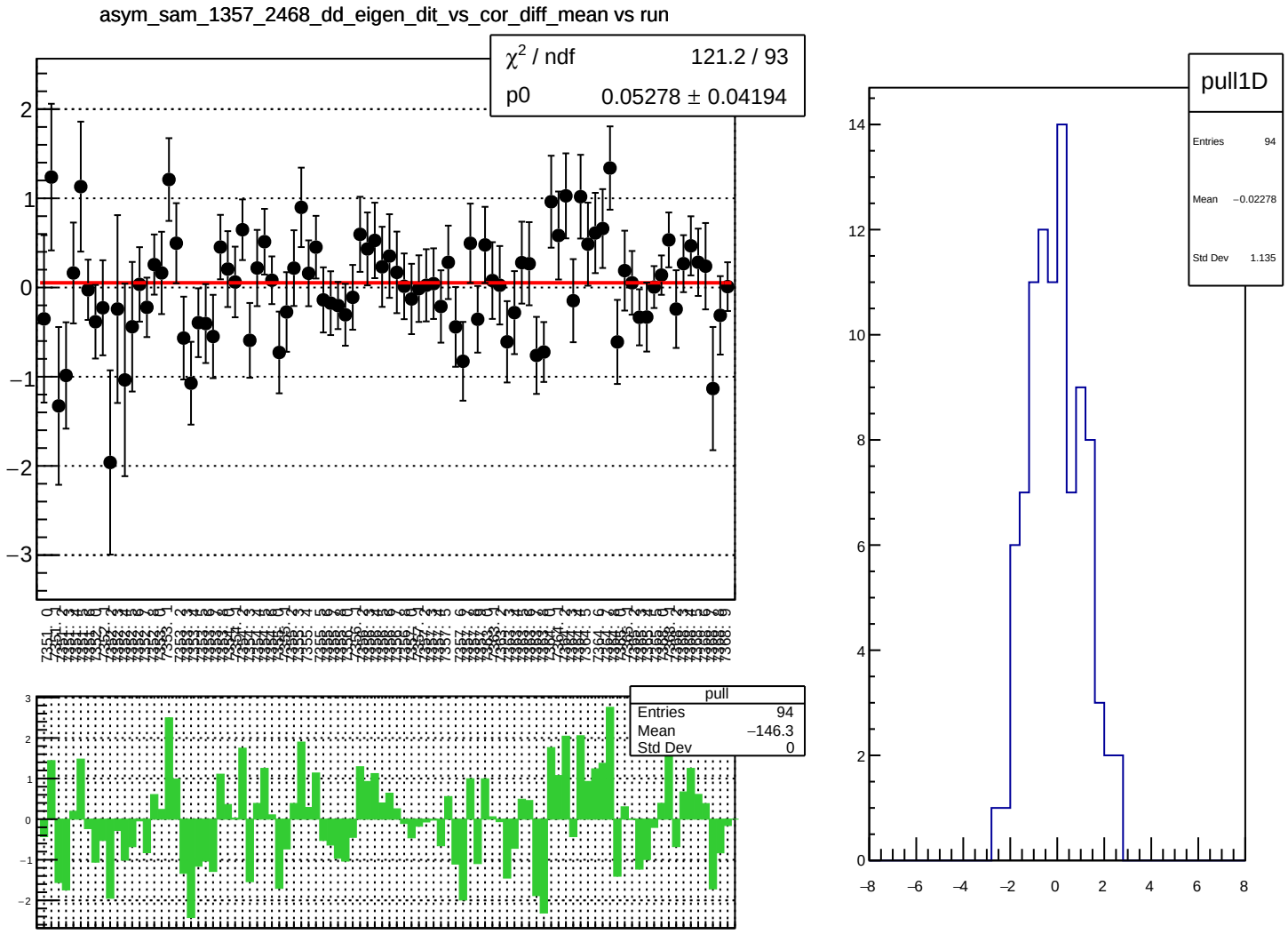

asym_sam_1357_2468_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8.687e+04 / 93
p0 39.03 ± 0.02966
110
100
90
80
70
60
50
40
30
20

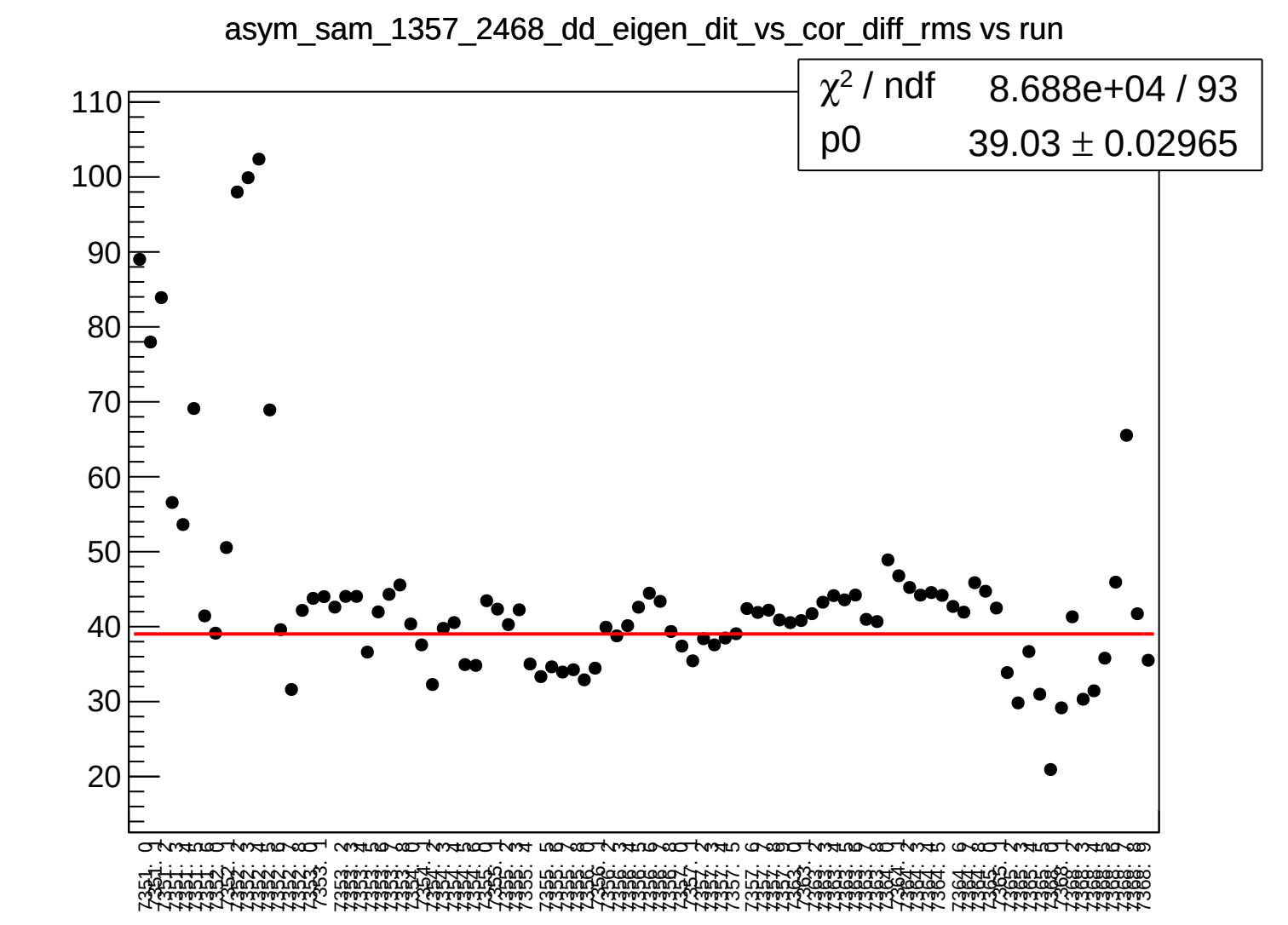

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 121.2 / 93
p0 0.05278 ± 0.04194
pull
Entries 94
Mean −146.3
Std Dev 0
pull1D
Entries 94
Mean −0.02278
Std Dev 1.135

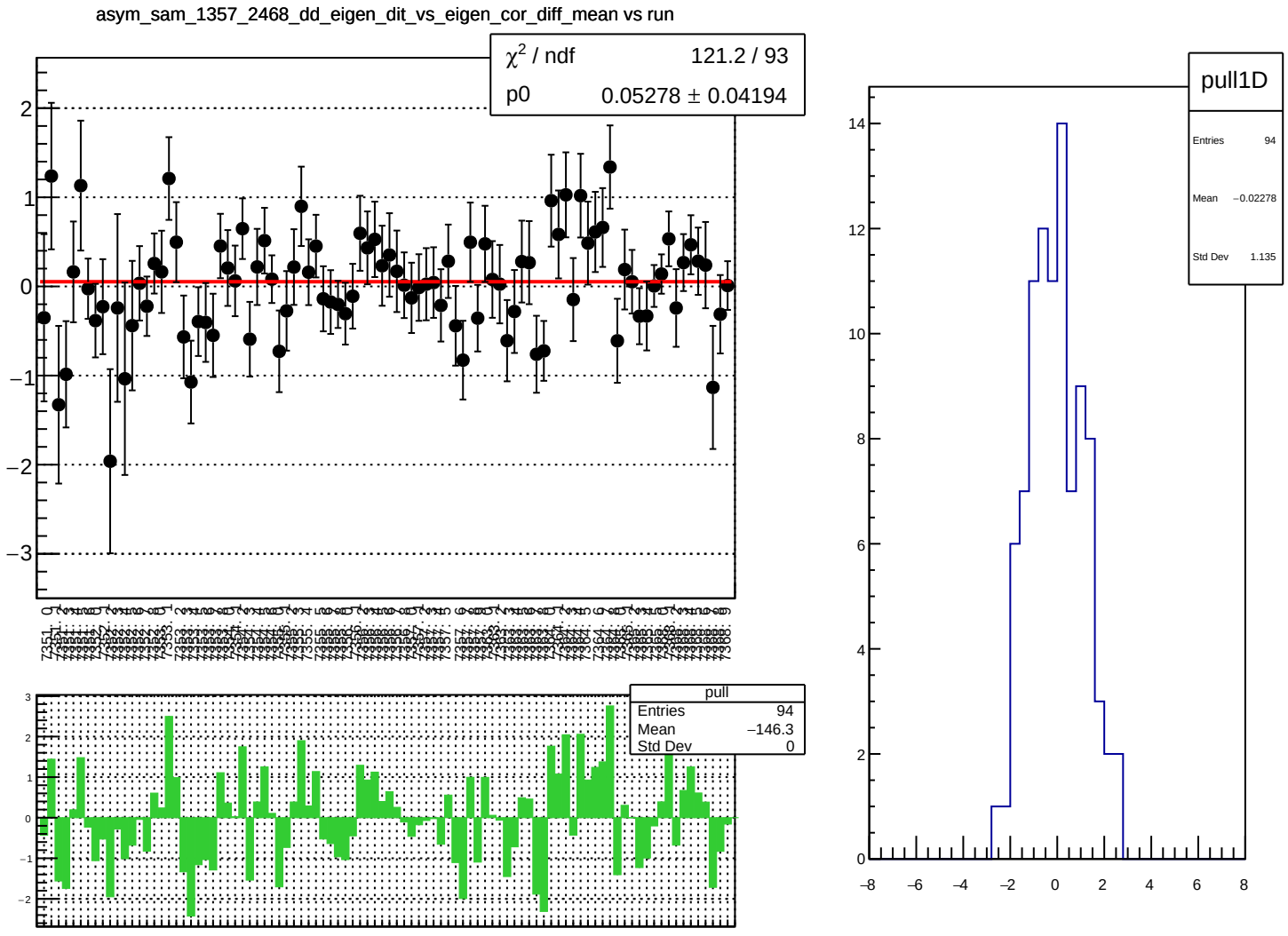

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.687e+04 / 93
p0 39.03 ± 0.02966
110
100
90
80
70
60
50
40
30
20

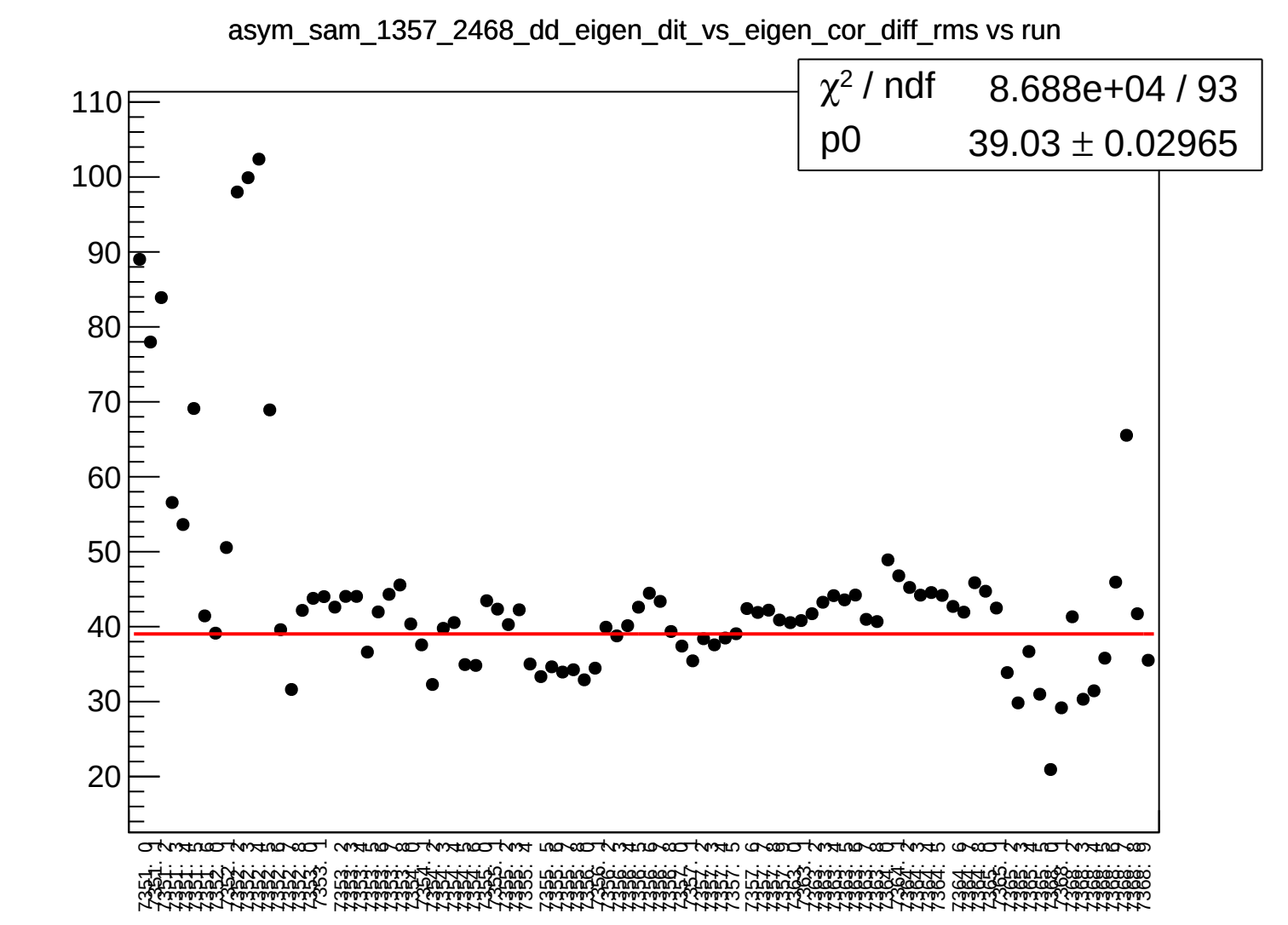

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 239.4 / 93
p0 9.315e−06 ± 2.893e−06
pull
Entries 94
Mean 67.88
Std Dev 0
pull1D
Entries 94
Mean −0.0737
Std Dev 1.594

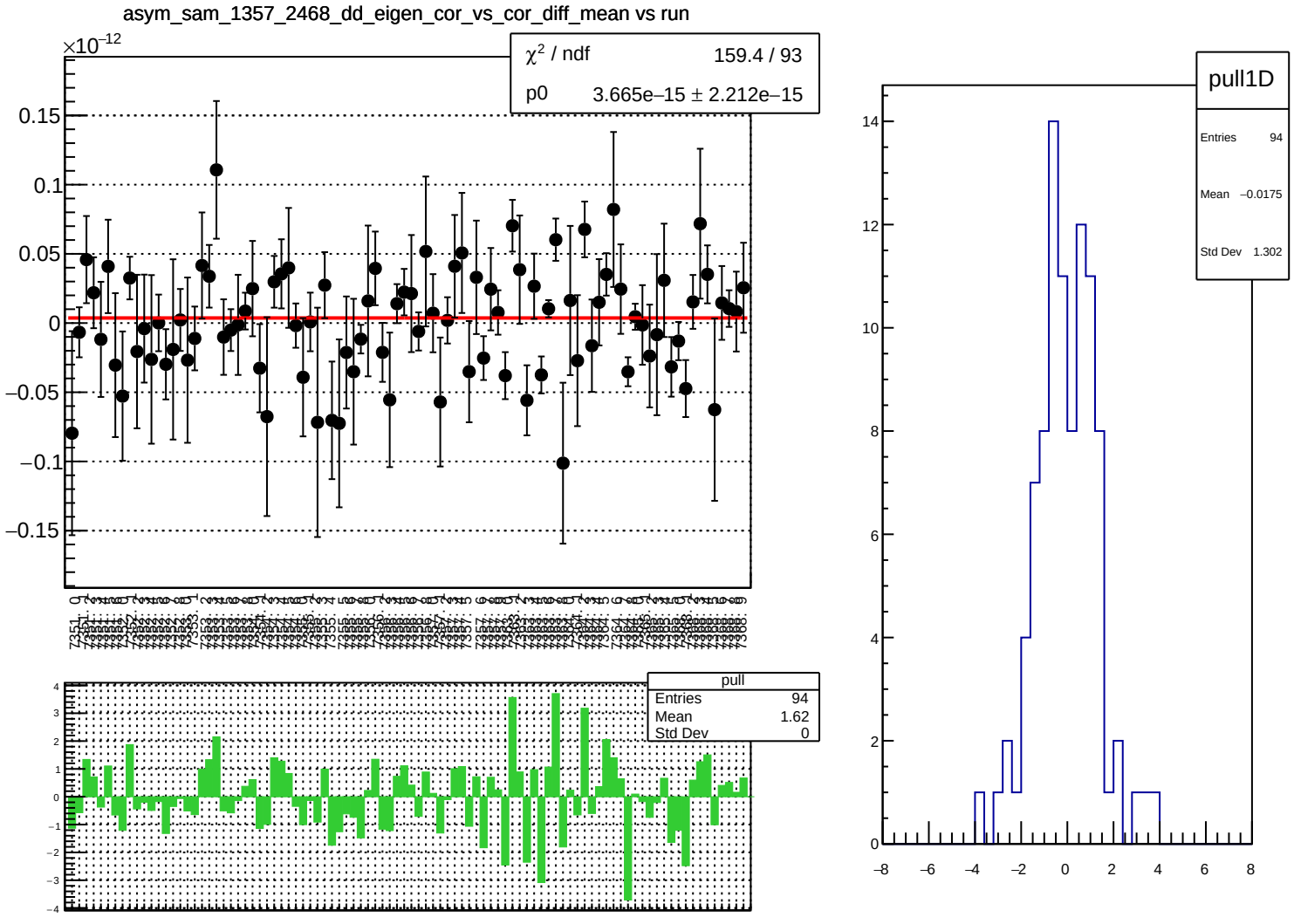

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.552e+05 / 93
p0 0.002638 ± 2.045e−06
0.0035
0.003
0.0025
0.002
0.0015

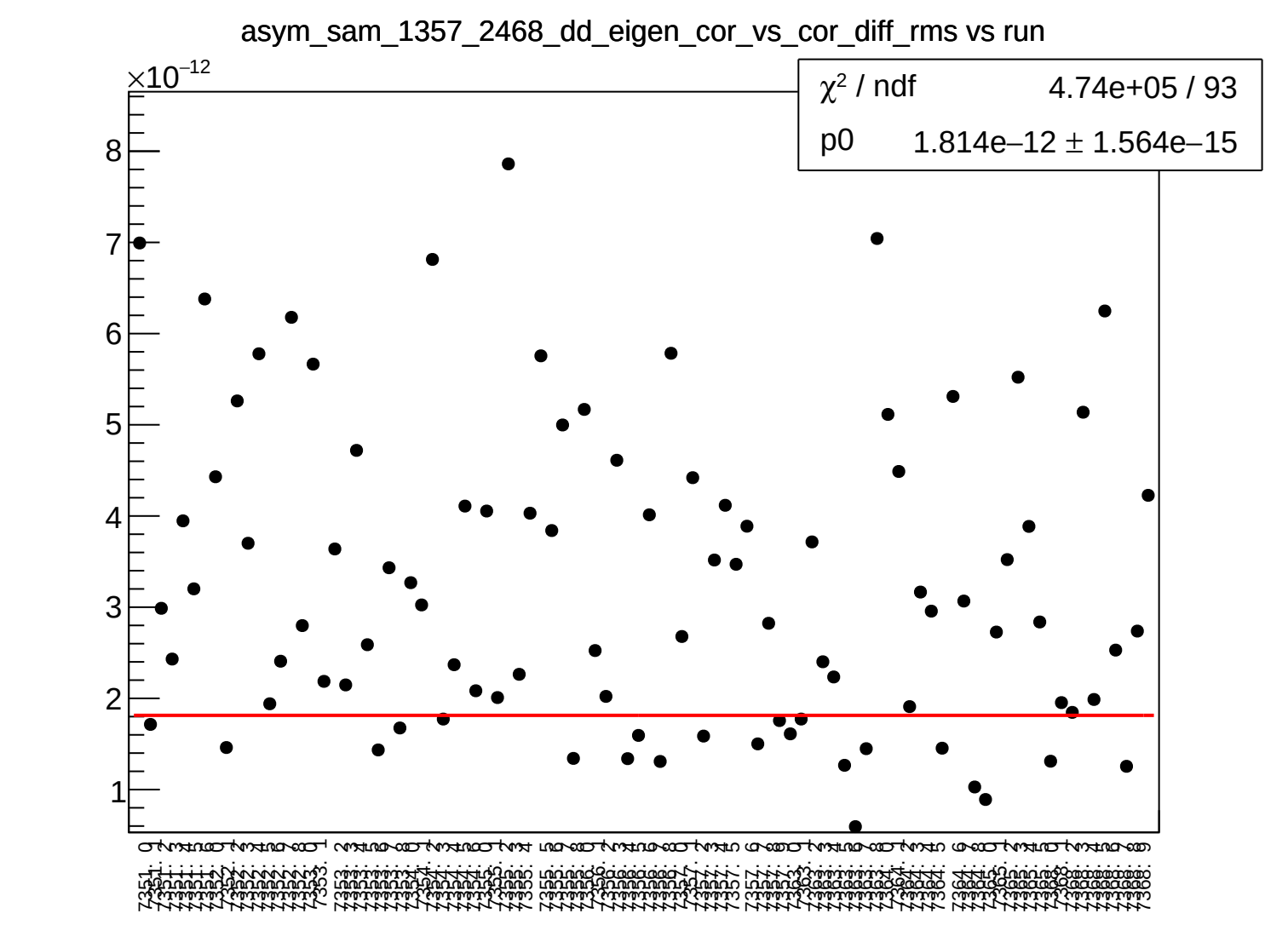

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 121.2 / 93
p0 0.05278 ± 0.04194
pull
Entries 94
Mean −146.3
Std Dev 0
pull1D
Entries 94
Mean −0.02278
Std Dev 1.135

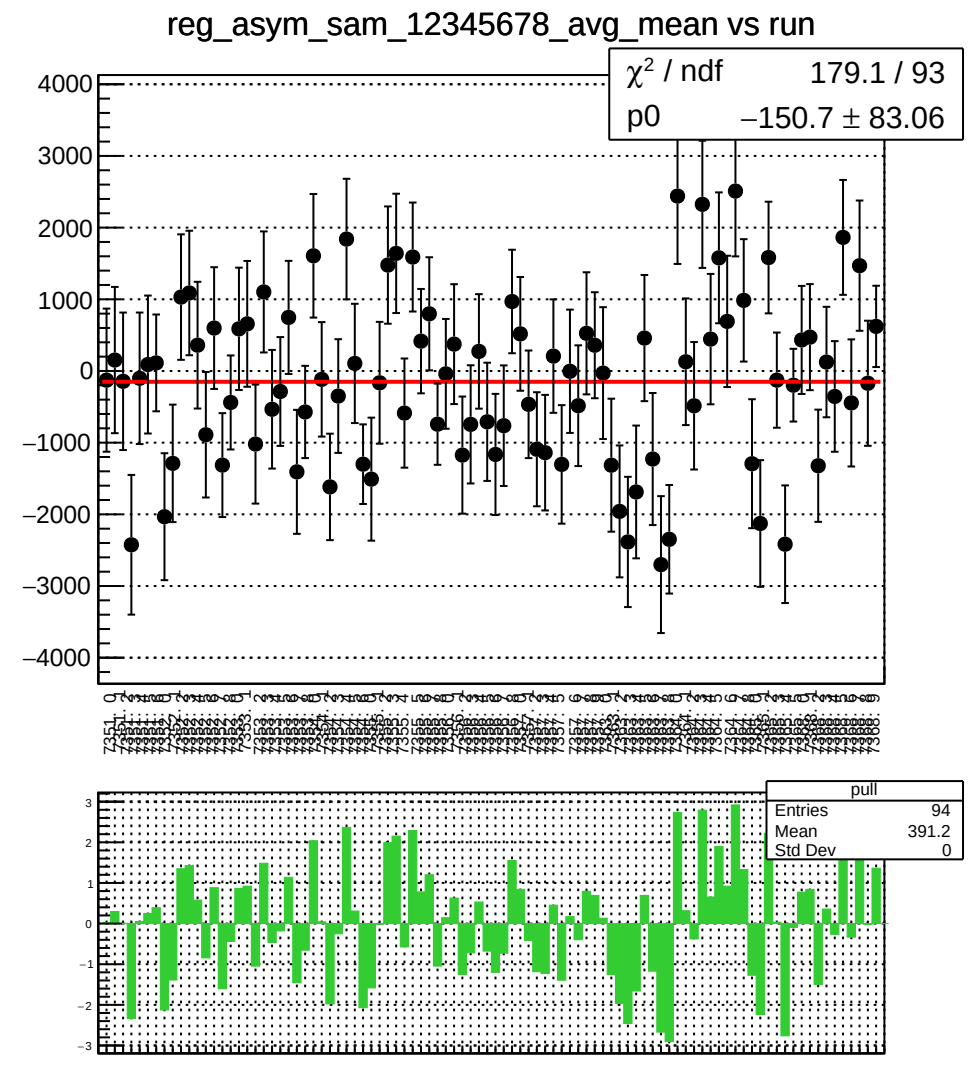

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.688e+04 / 93
p0 39.03 ± 0.02965
110
100
90
80
70
60
50
40
30
20

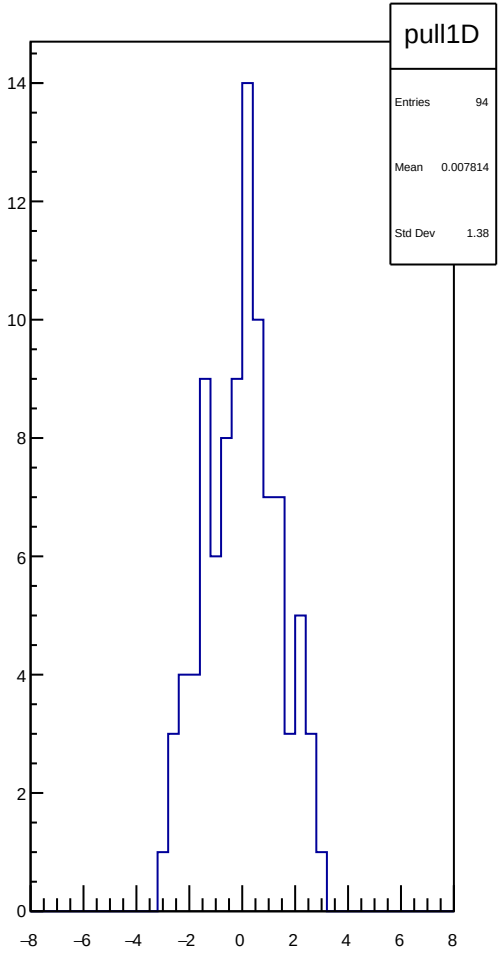

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 121.2 / 93
p0 0.05278 ± 0.04194
pull
Entries 94
Mean −146.3
Std Dev 0
pull1D
Entries 94
Mean −0.02278
Std Dev 1.135

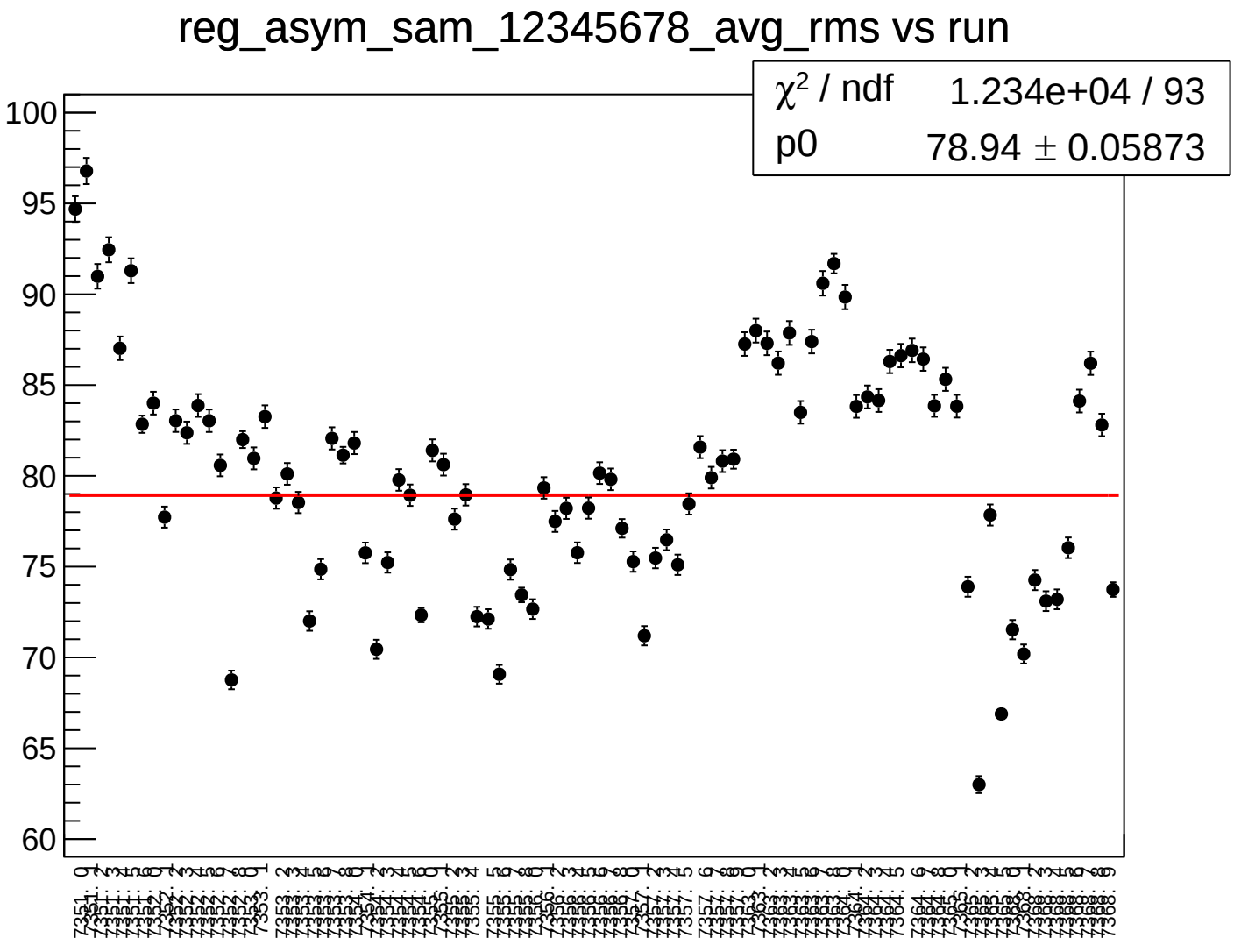

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 8.688e+04 / 93
p0 39.03 ± 0.02965
110
100
90
80
70
60
50
40
30
20

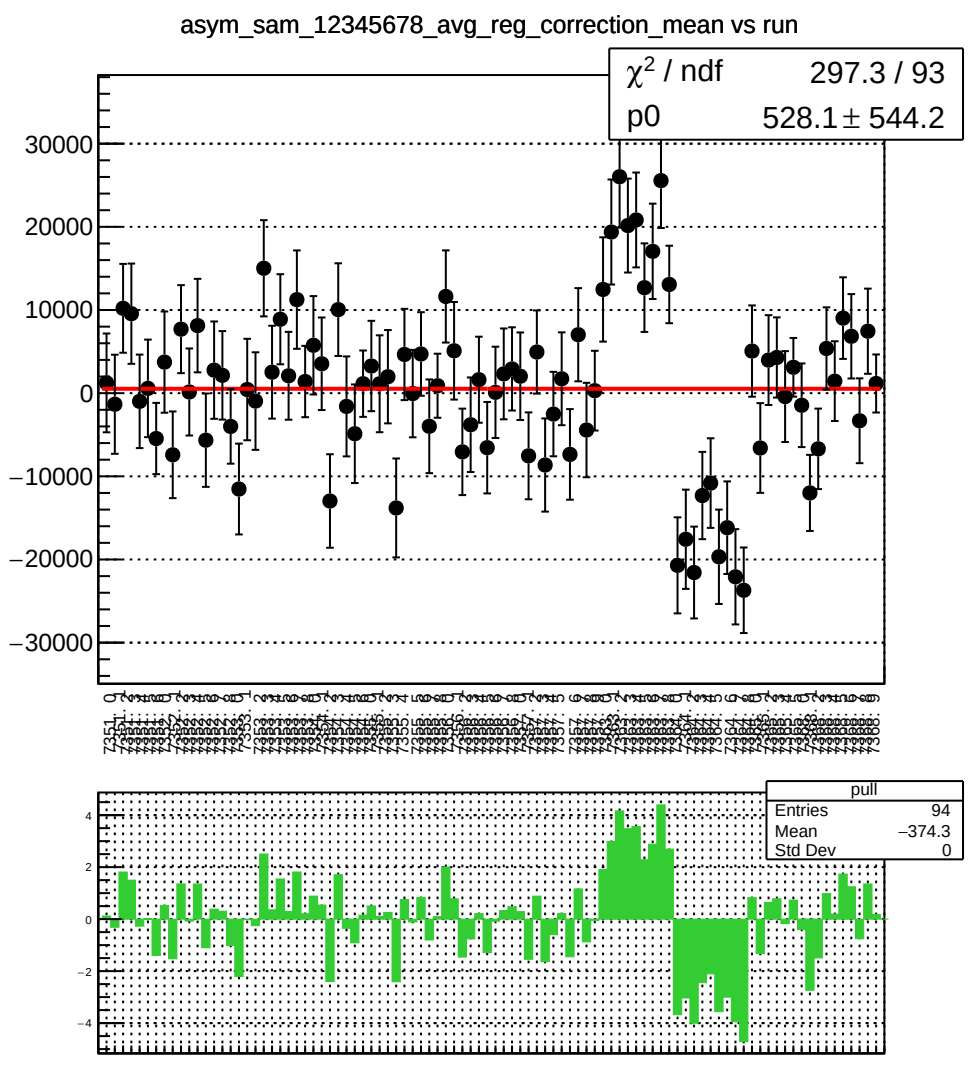

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 159.4 / 93
p0 3.665e−15 ± 2.212e−15
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 94
Mean 1.62
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 94
Mean −0.0175
Std Dev 1.302
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

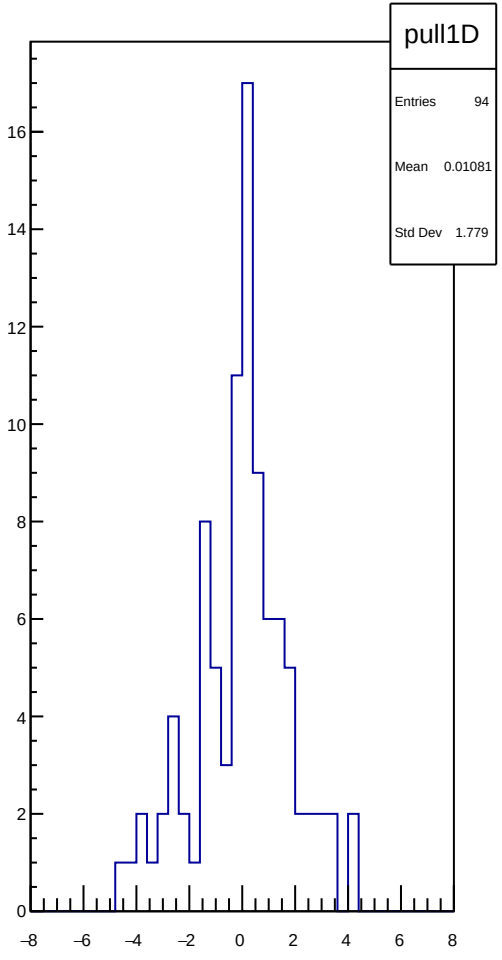

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.74e+05 / 93
p0 1.814e−12 ± 1.564e−15
8
7
6
5
4
3
2
1

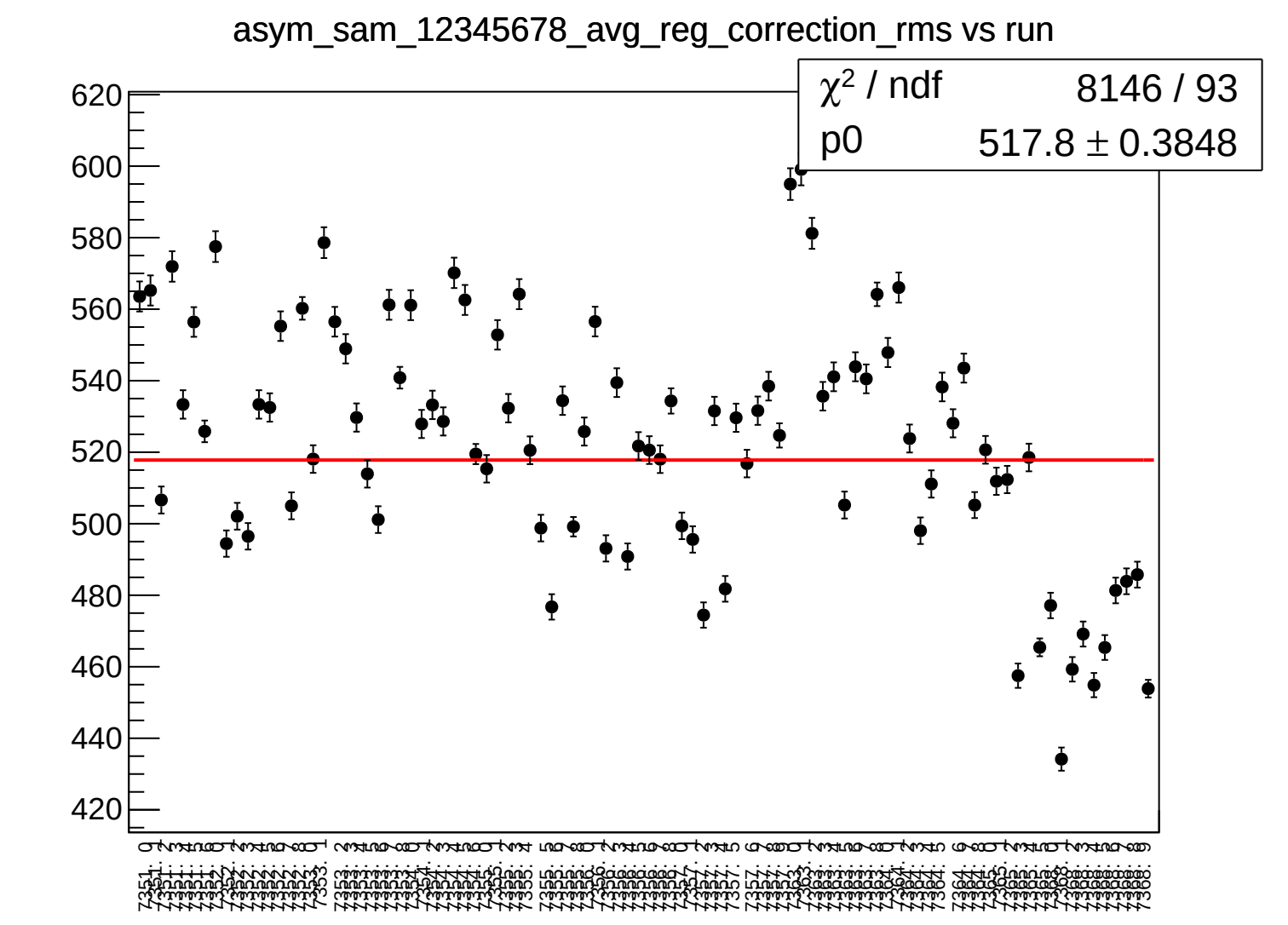

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 179.1 / 93
p0 −150.7 ± 83.06
pull
Entries 94
Mean 391.2
Std Dev 0

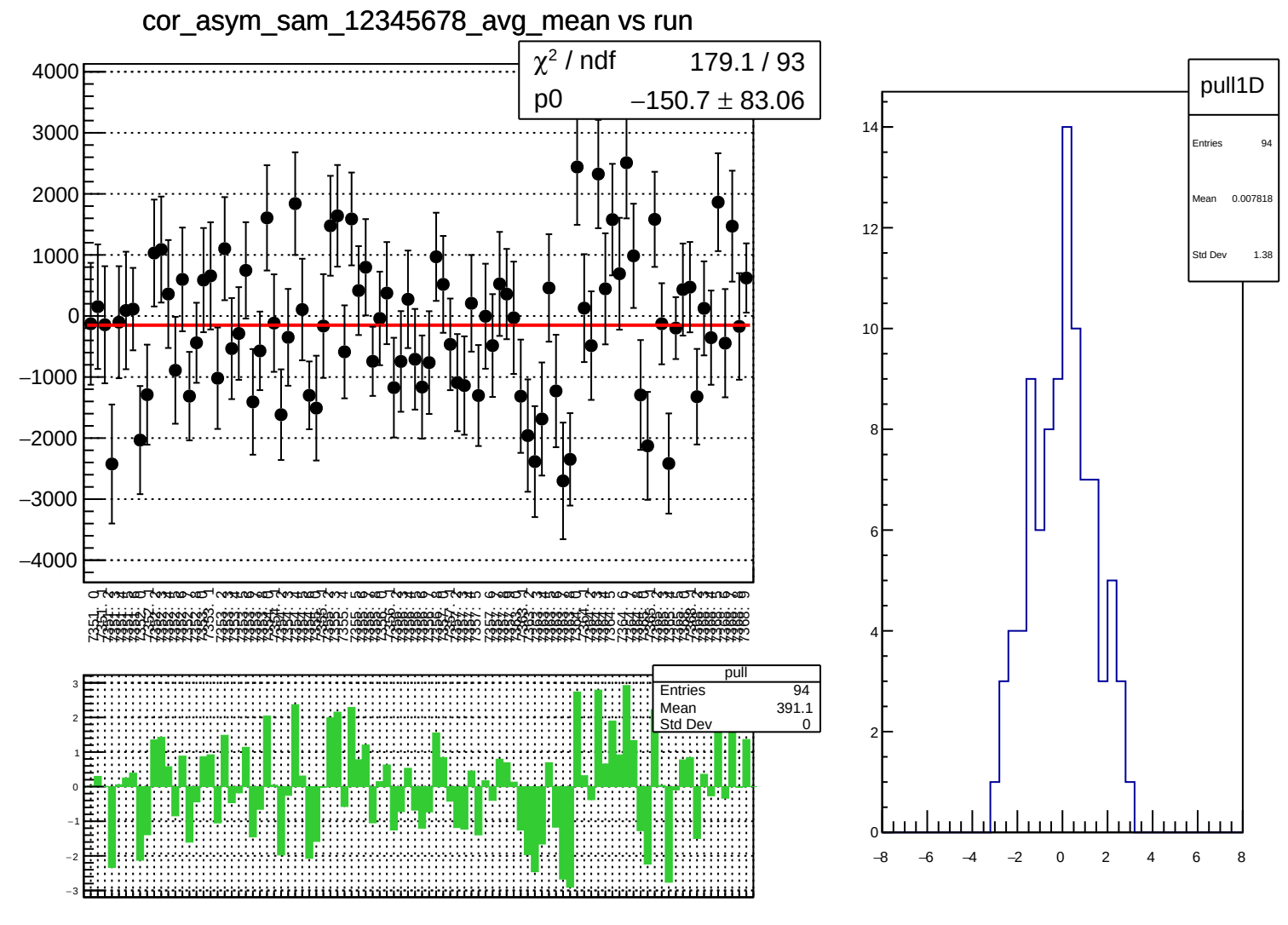

pull1D
Entries 94
Mean 0.007814
Std Dev 1.38

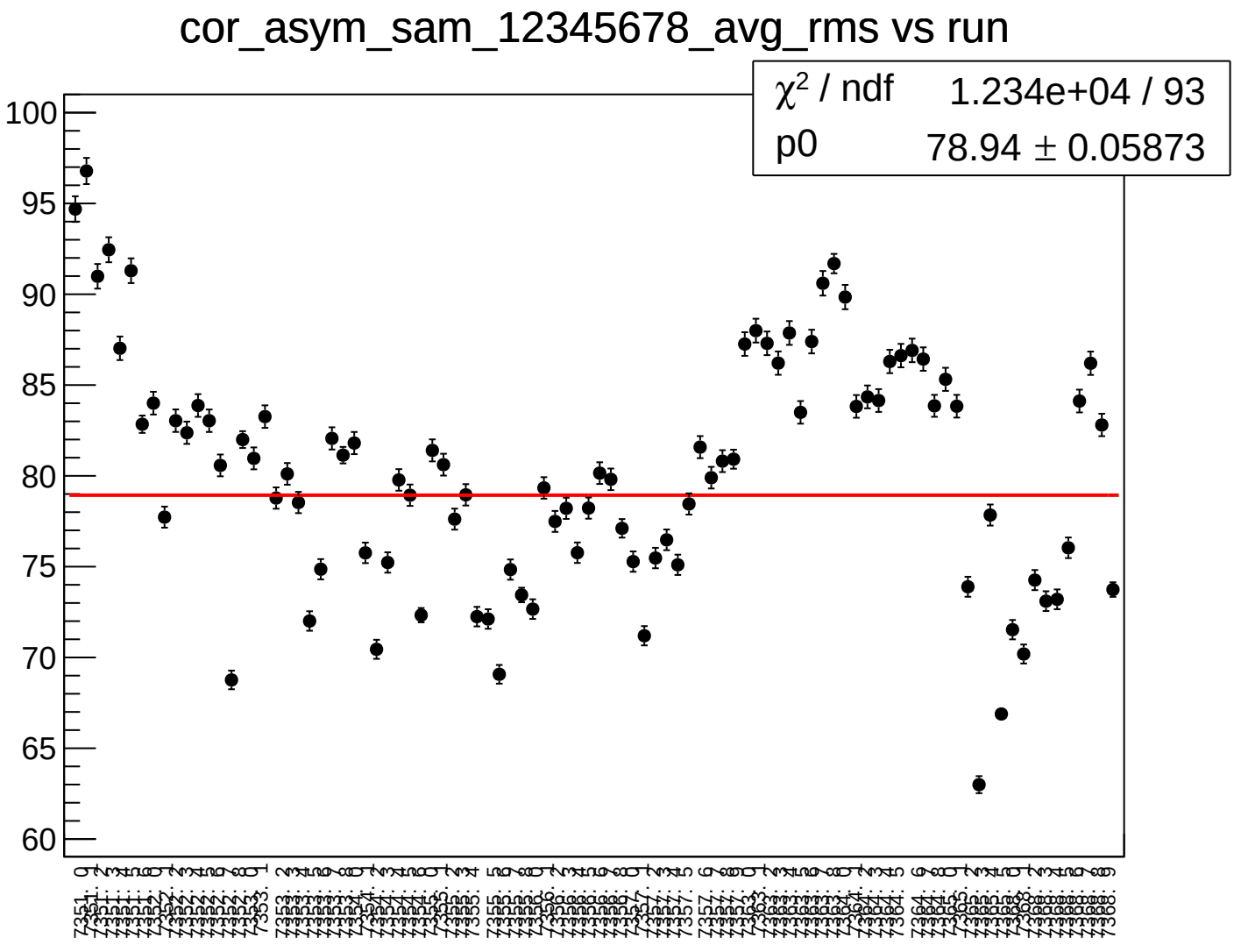

reg_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.234e+04 / 93
p0 78.94 ± 0.05873
100
95
90
85
80
75
70
65
60

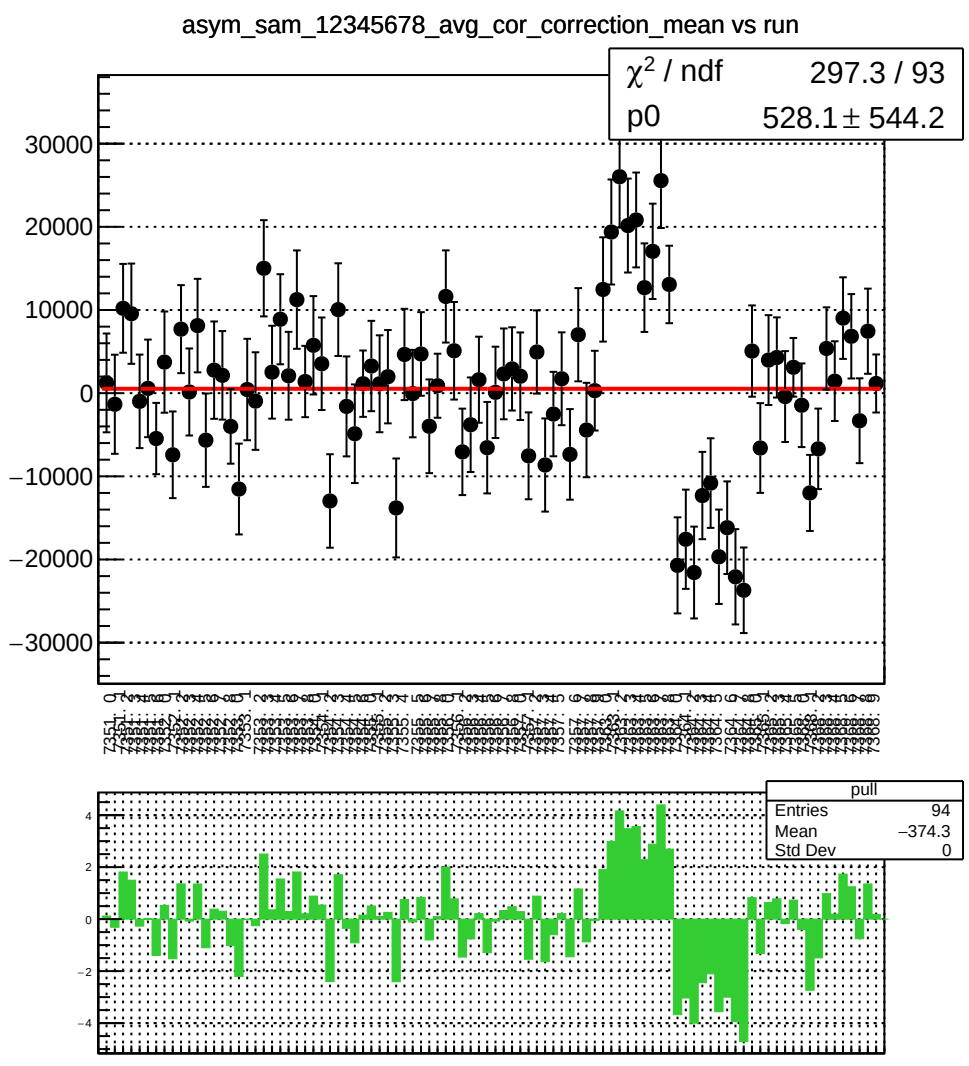

asym_sam_12345678_avg_reg_correction_mean vs run
χ² / ndf 297.3 / 93
p0 528.1 ± 544.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −374.3
Std Dev 0
4
2
0
−2
−4

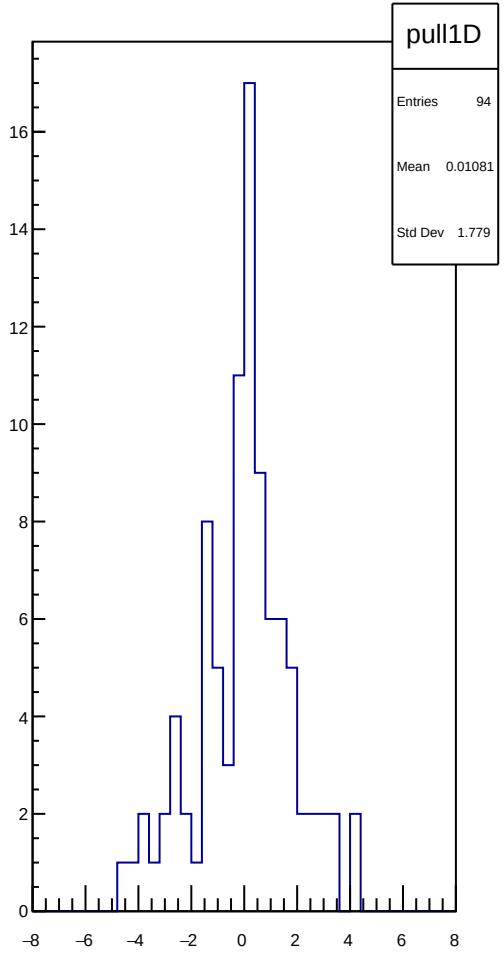

pull1D
Entries 94
Mean 0.01081
Std Dev 1.779
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

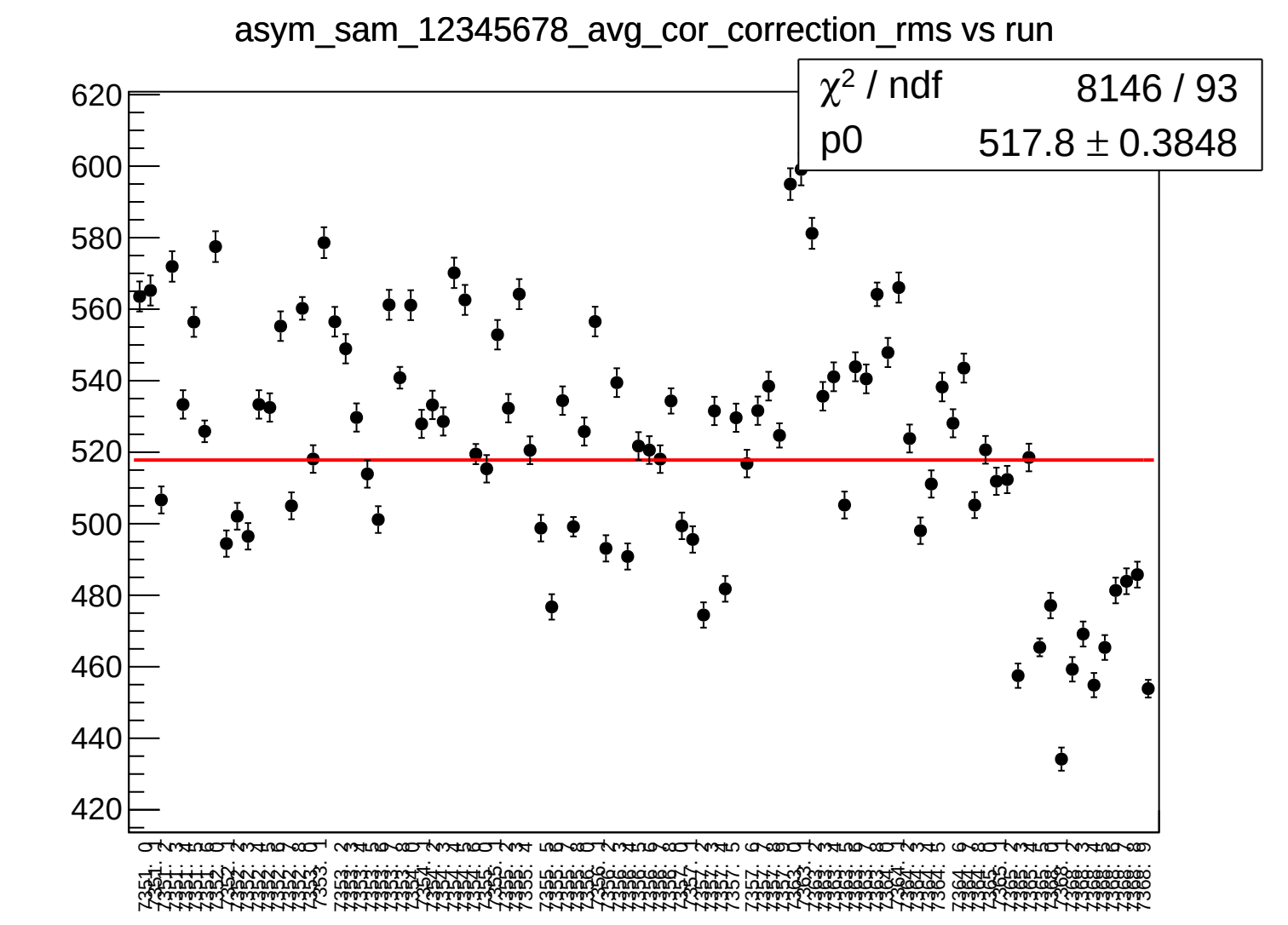

asym_sam_12345678_avg_reg_correction_rms vs run
χ² / ndf 8146 / 93
p0 517.8 ± 0.3848
620
600
580
560
540
520
500
480
460
440
420

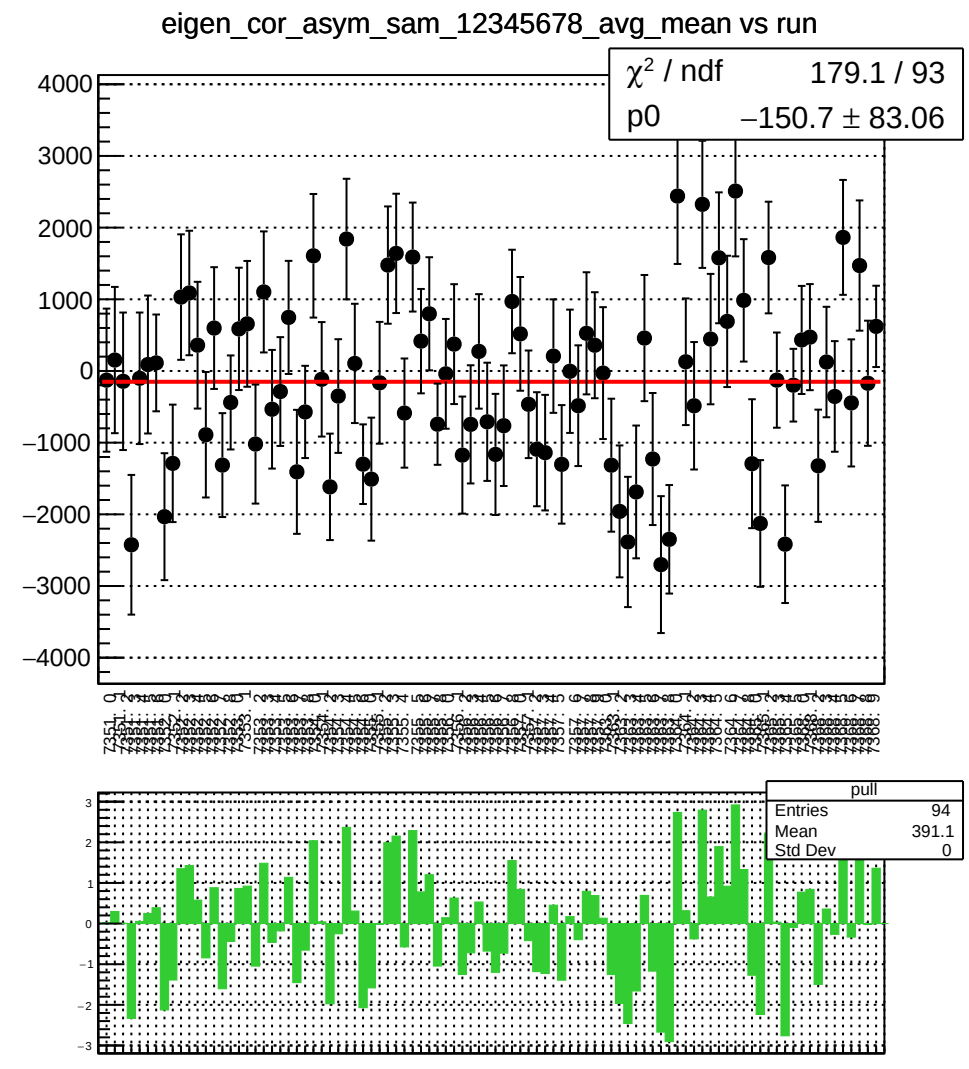

cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 179.1 / 93
p0 −150.7 ± 83.06
pull
Entries 94
Mean 391.1
Std Dev 0
pull1D
Entries 94
Mean 0.007818
Std Dev 1.38

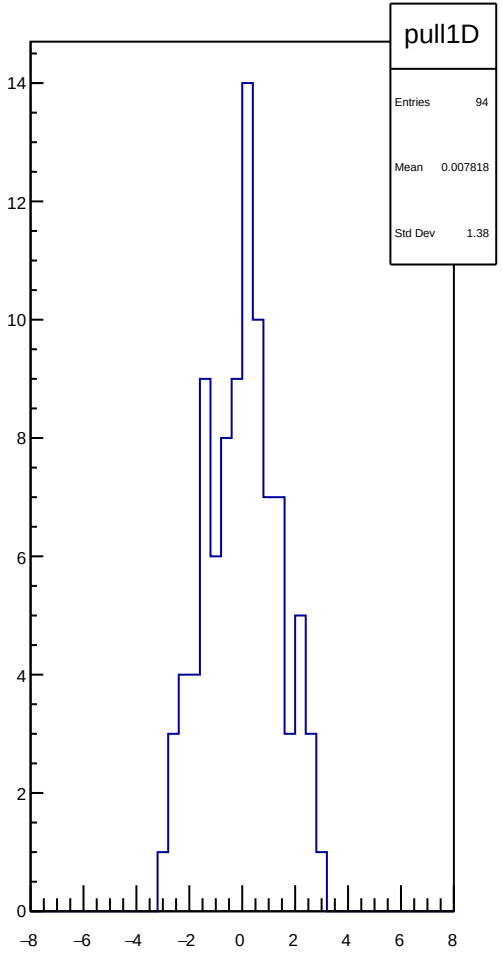

cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.234e+04 / 93
p0 78.94 ± 0.05873
100
95
90
85
80
75
70
65
60

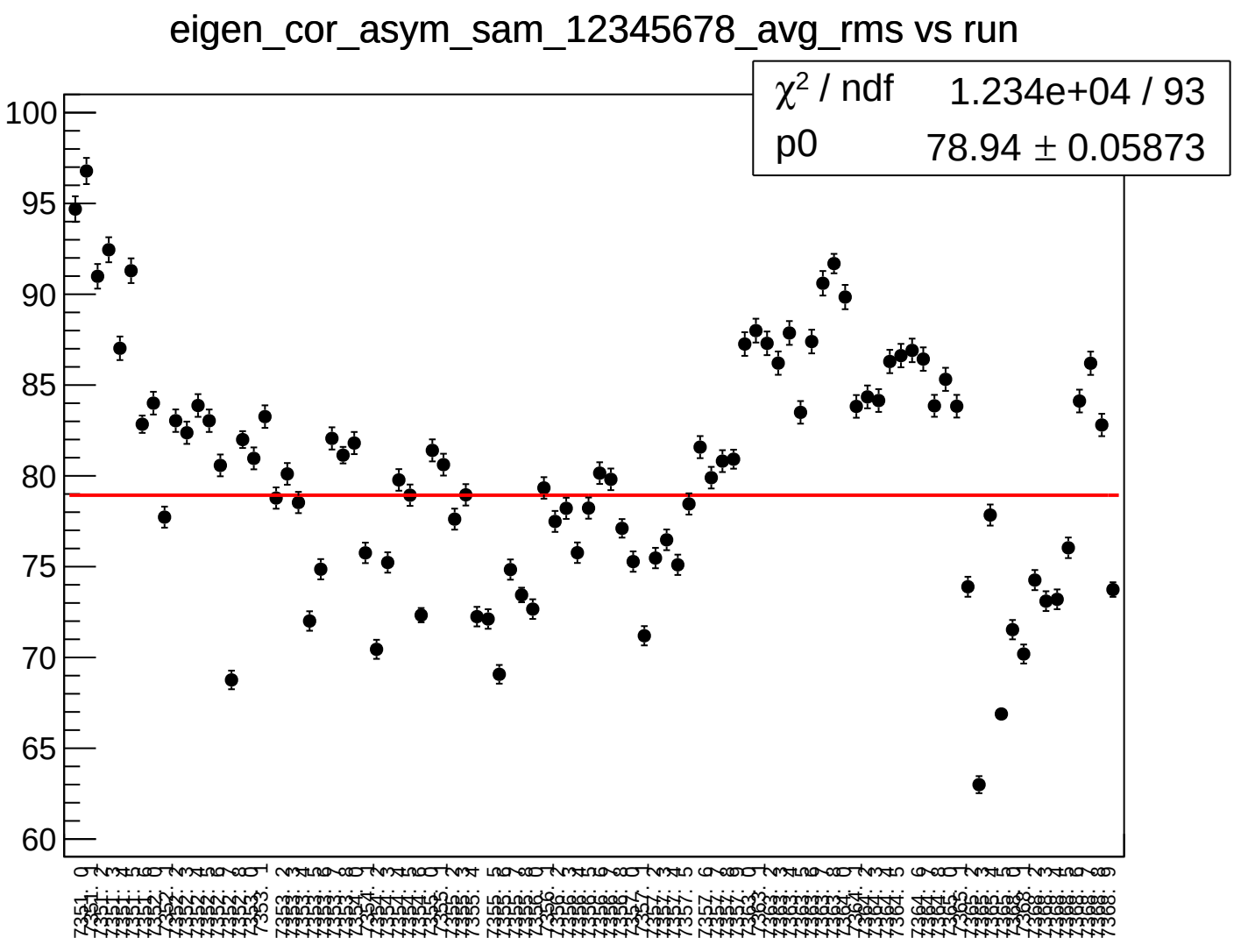

asym_sam_12345678_avg_cor_correction_mean vs run
χ² / ndf 297.3 / 93
p0 528.1 ± 544.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −374.3
Std Dev 0
4
2
0
−2
−4

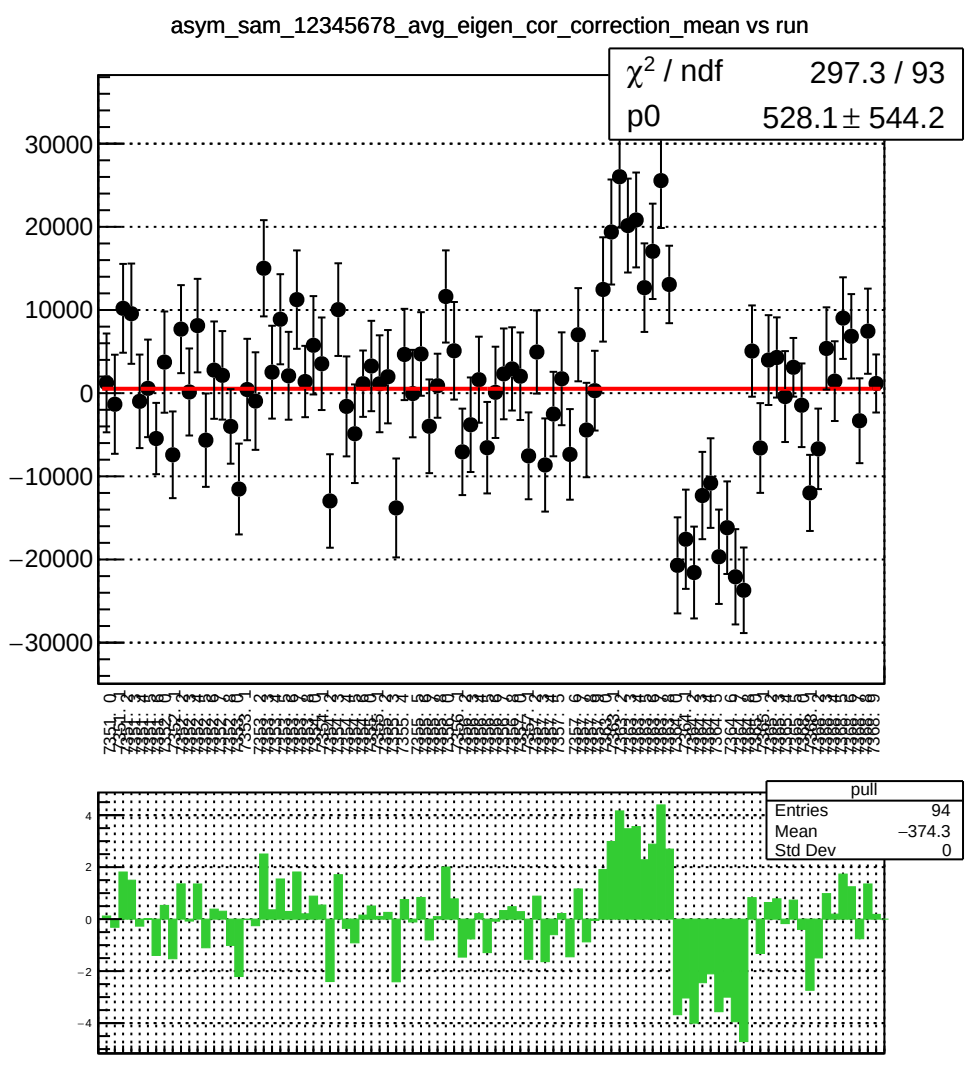

pull1D
Entries 94
Mean 0.01081
Std Dev 1.779
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

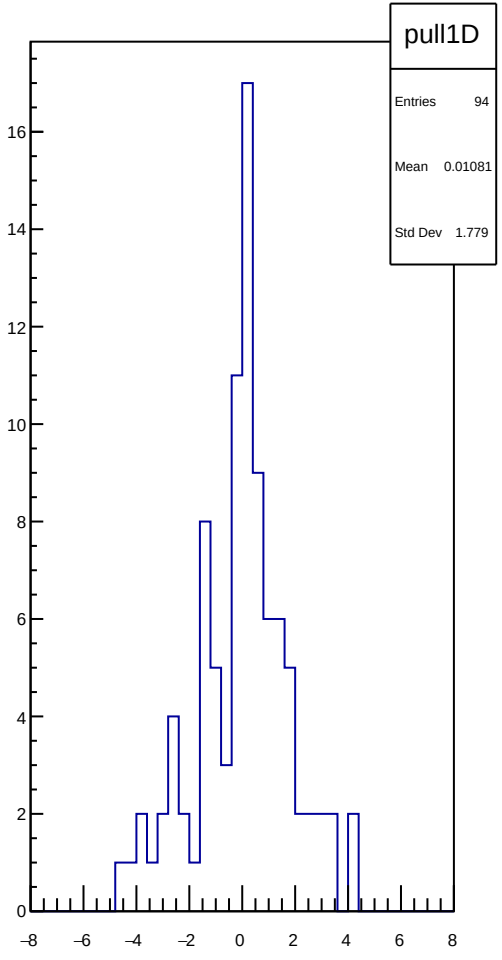

asym_sam_12345678_avg_cor_correction_rms vs run
χ² / ndf 8146 / 93
p0 517.8 ± 0.3848
620
600
580
560
540
520
500
480
460
440
420

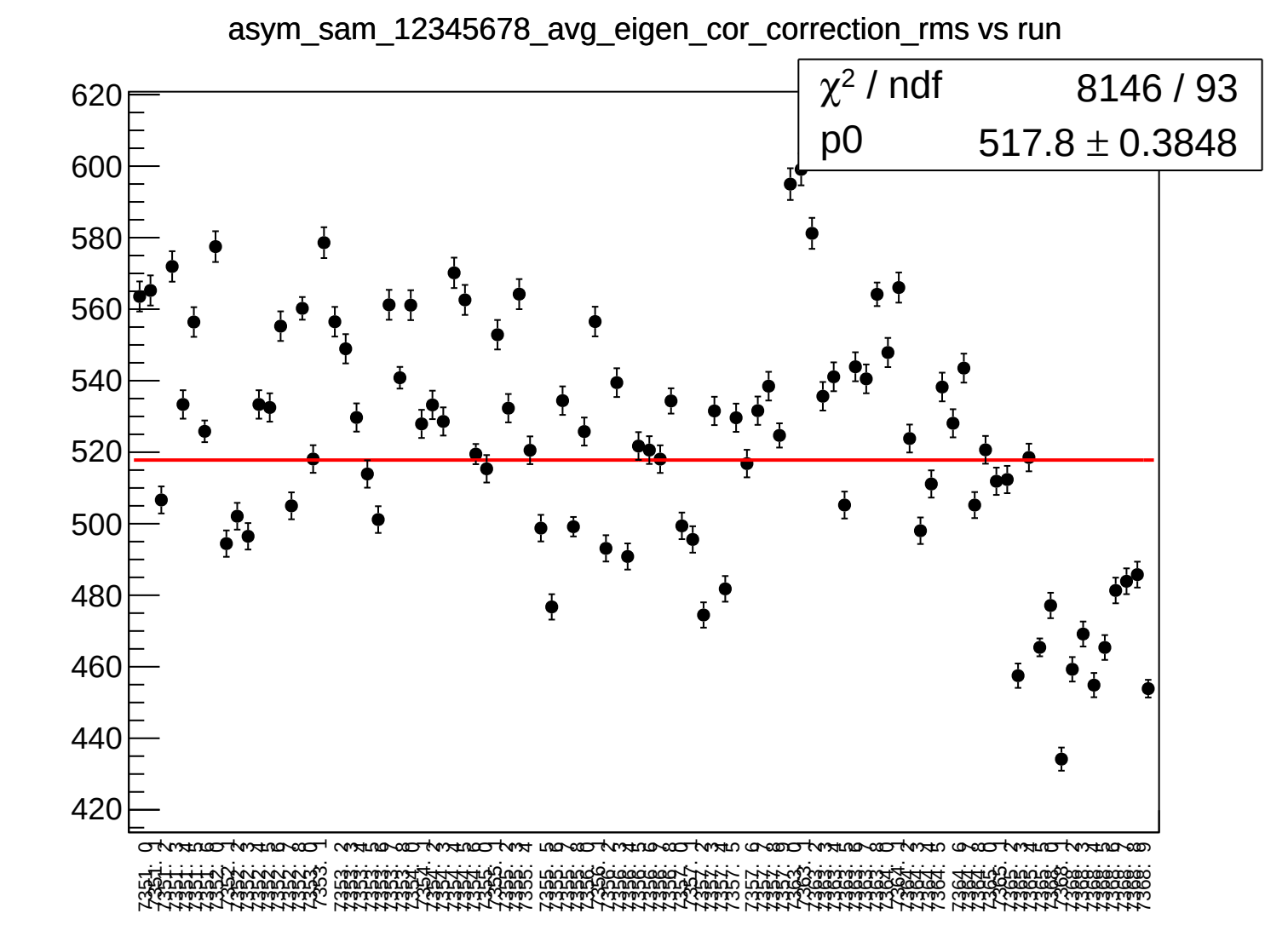

eigen_cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 179.1 / 93
p0 −150.7 ± 83.06
pull
Entries 94
Mean 391.1
Std Dev 0

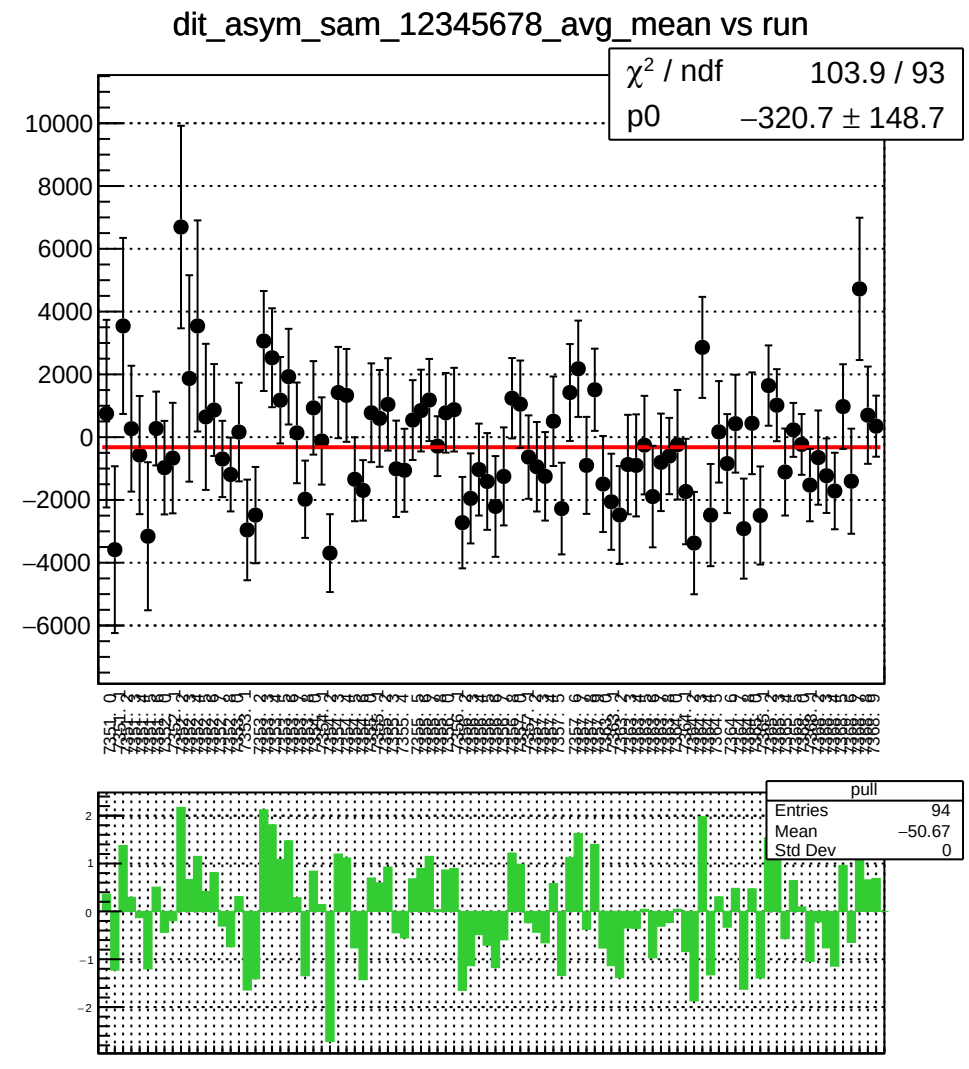

pull1D
Entries 94
Mean 0.007818
Std Dev 1.38

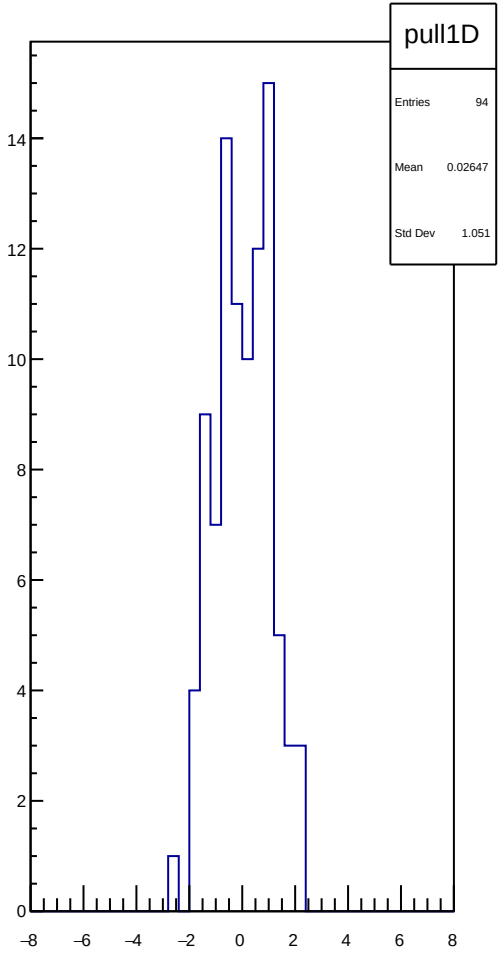

eigen_cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.234e+04 / 93
p0 78.94 ± 0.05873
100
95
90
85
80
75
70
65
60

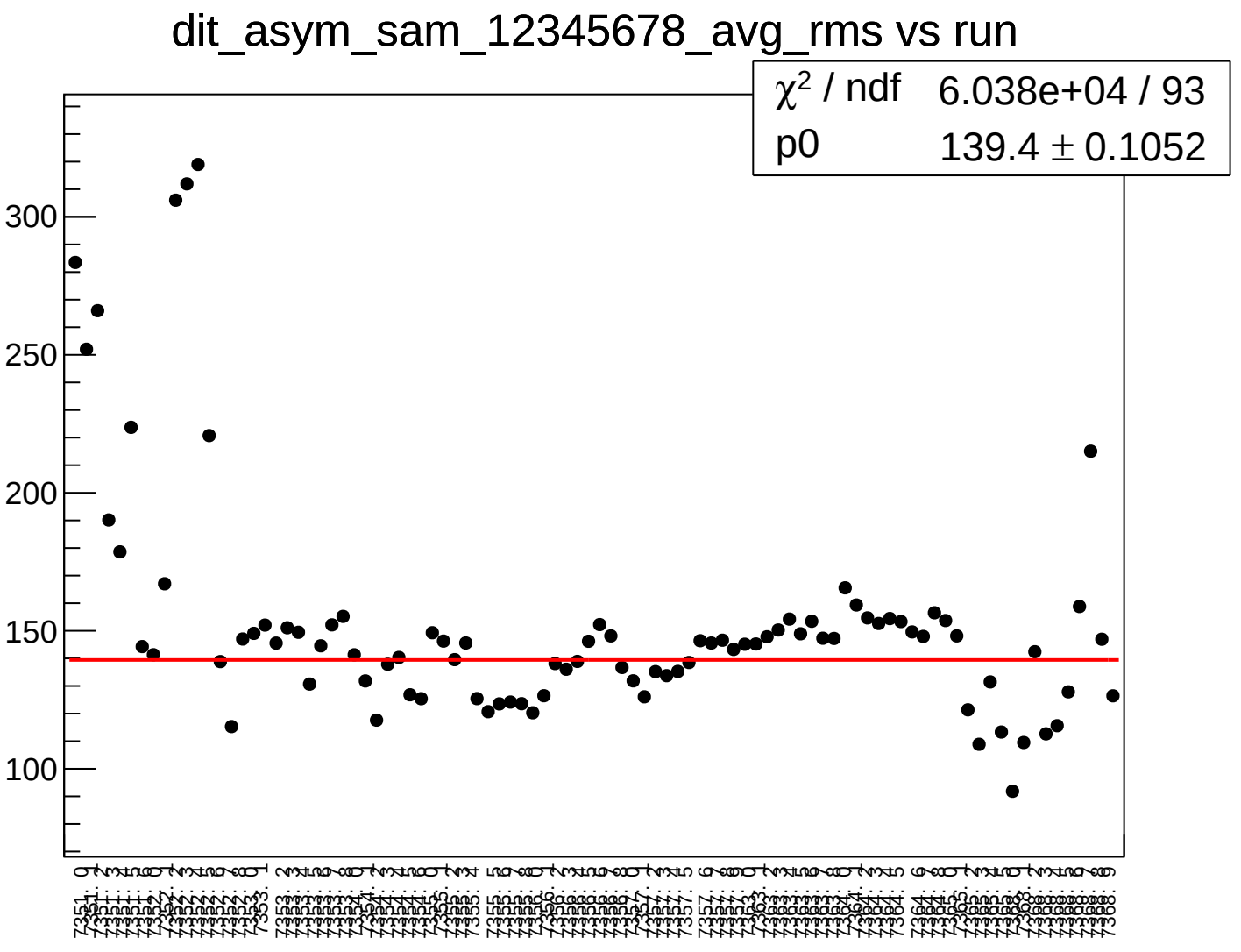

asym_sam_12345678_avg_eigen_cor_correction_mean vs run
χ² / ndf 297.3 / 93
p0 528.1 ± 544.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −374.3
Std Dev 0
4
2
0
−2
−4

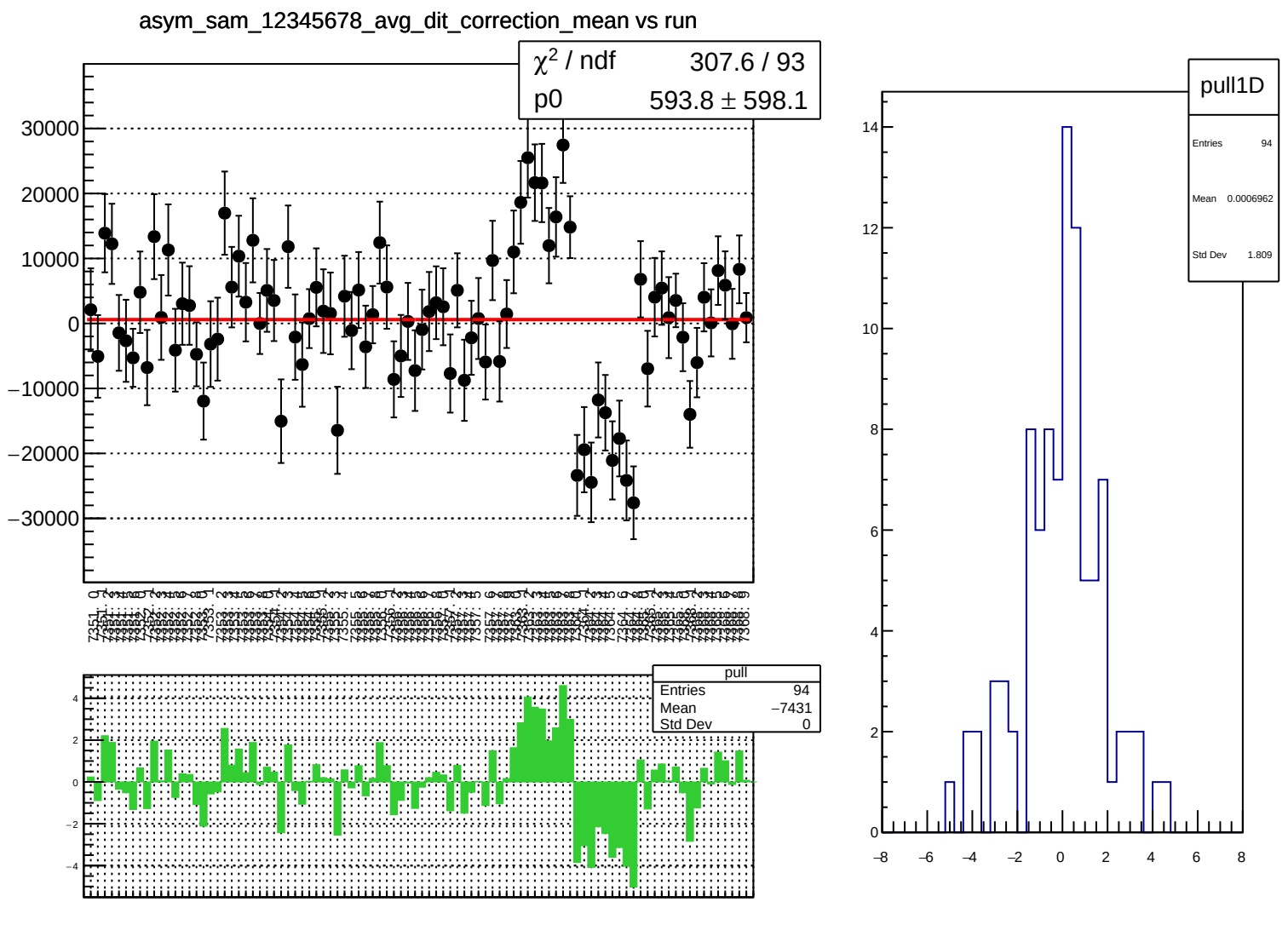

pull1D
Entries 94
Mean 0.01081
Std Dev 1.779
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

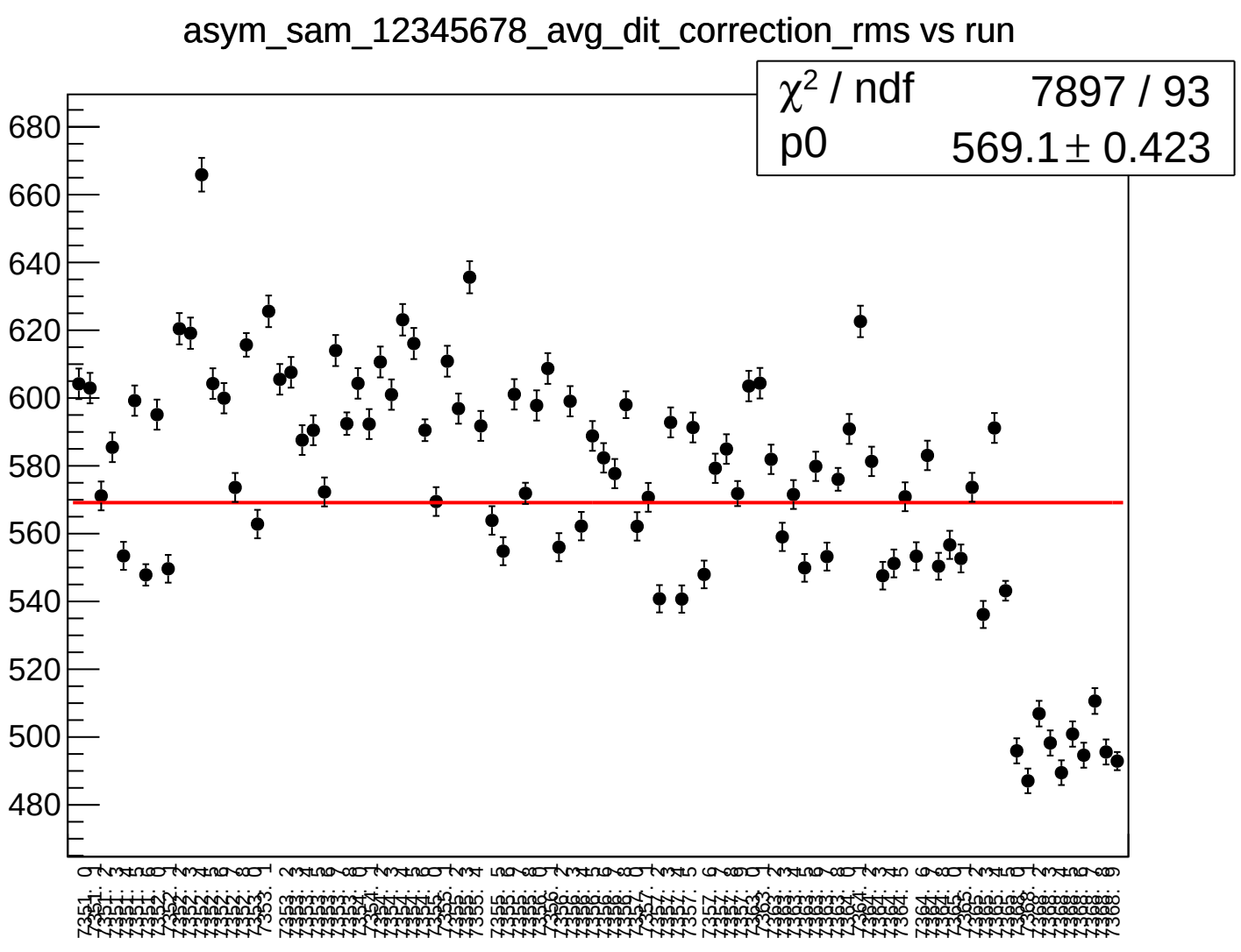

asym_sam_12345678_avg_eigen_cor_correction_rms vs run
χ² / ndf 8146 / 93
p0 517.8 ± 0.3848
620
600
580
560
540
520
500
480
460
440
420

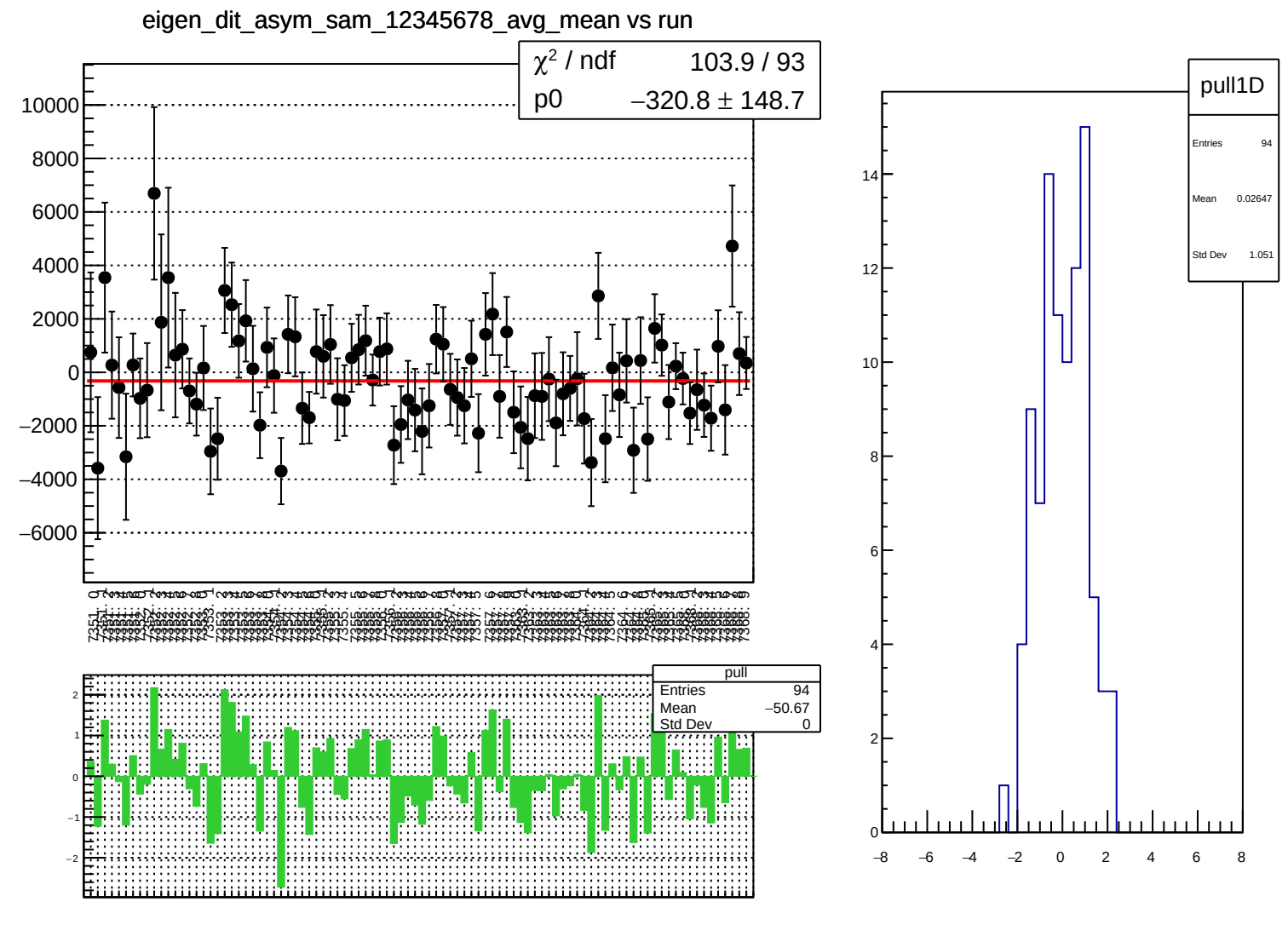

dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 103.9 / 93
p0 −320.7 ± 148.7
pull
Entries 94
Mean −50.67
Std Dev 0

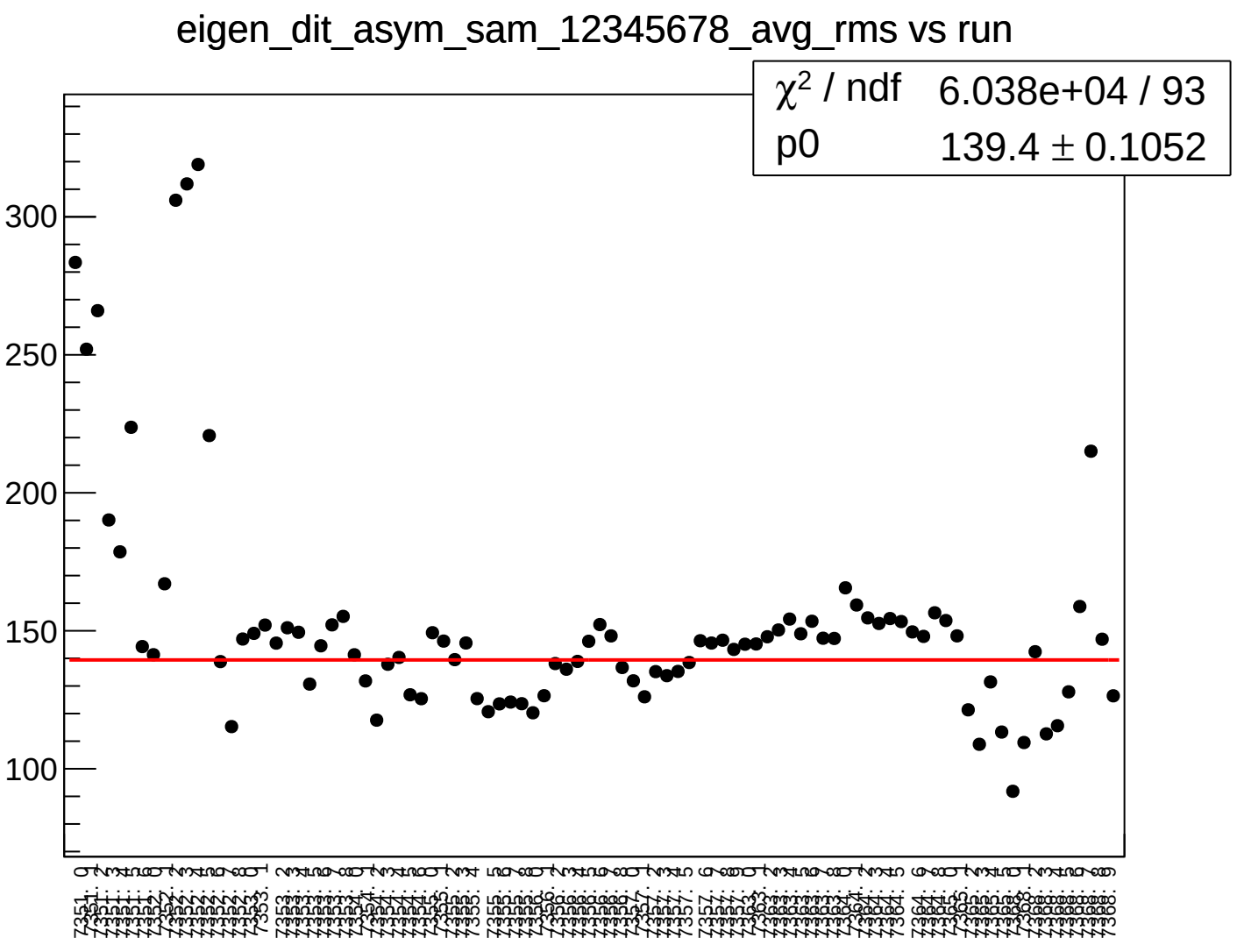

pull1D
Entries 94
Mean 0.02647
Std Dev 1.051

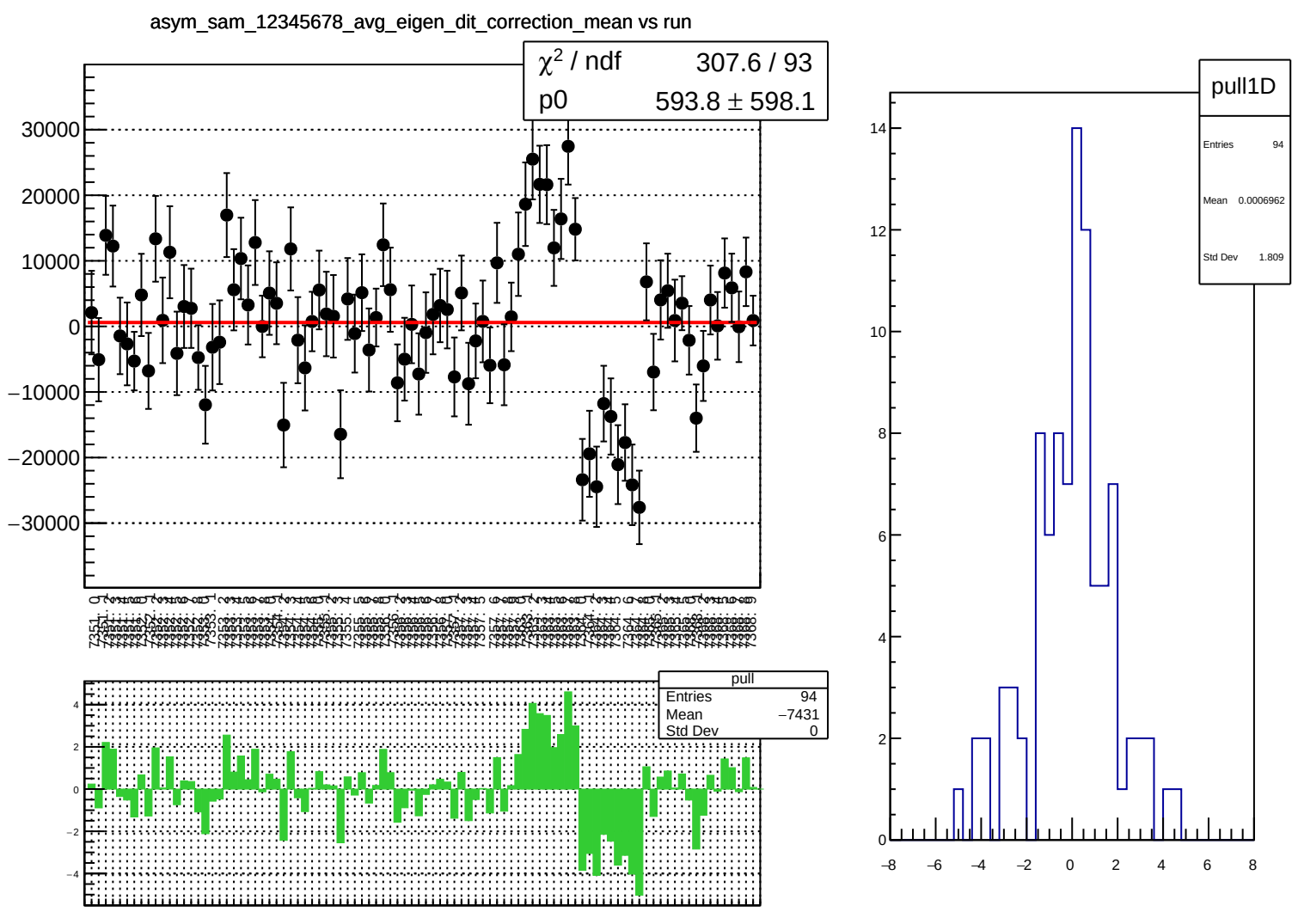

dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 6.038e+04 / 93
p0 139.4 ± 0.1052
300
250
200
150
100

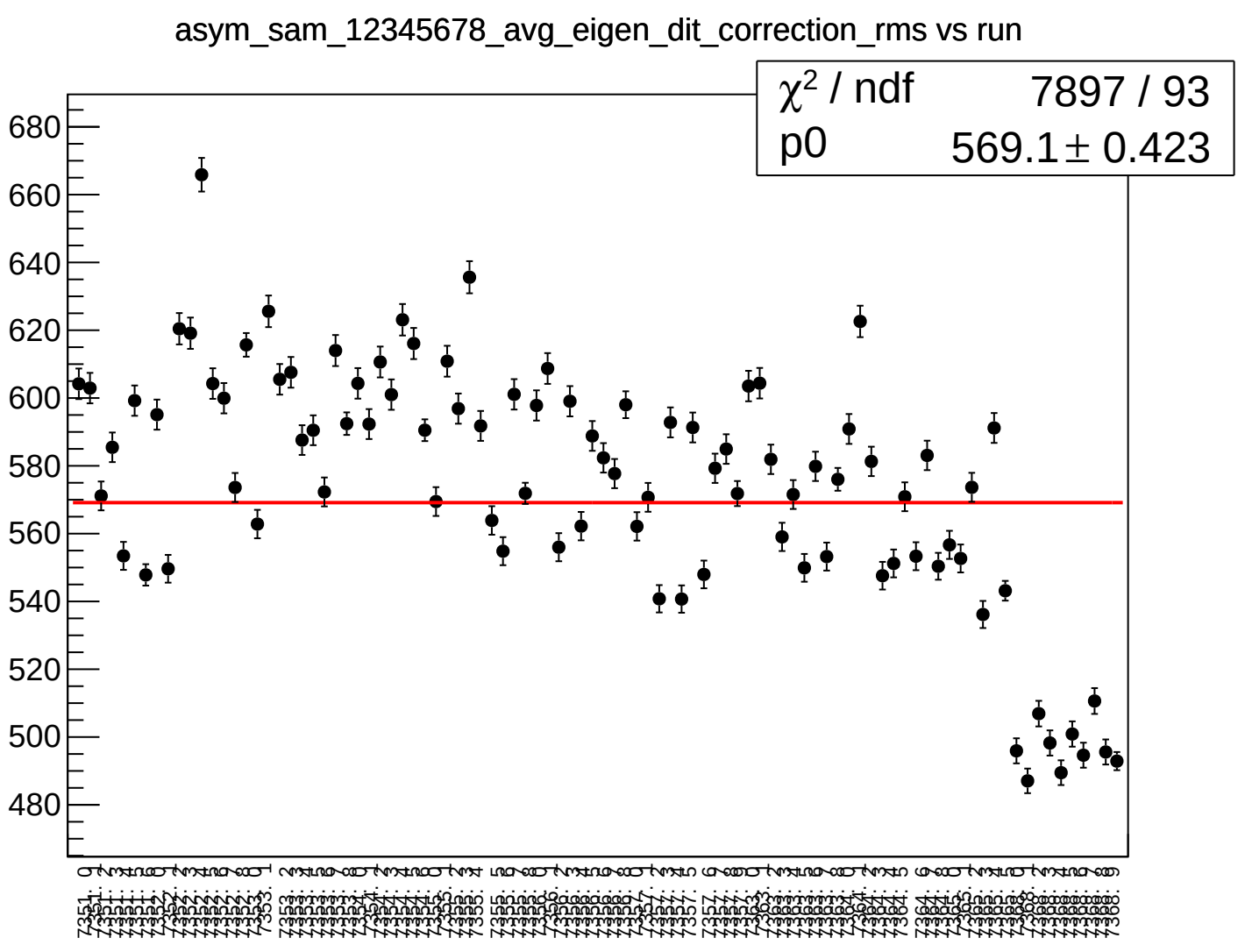

asym_sam_12345678_avg_dit_correction_mean vs run
χ² / ndf 307.6 / 93
p0 593.8 ± 598.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −7431
Std Dev 0
4
2
0
−2
−4
pull1D
Entries 94
Mean 0.0006962
Std Dev 1.809
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

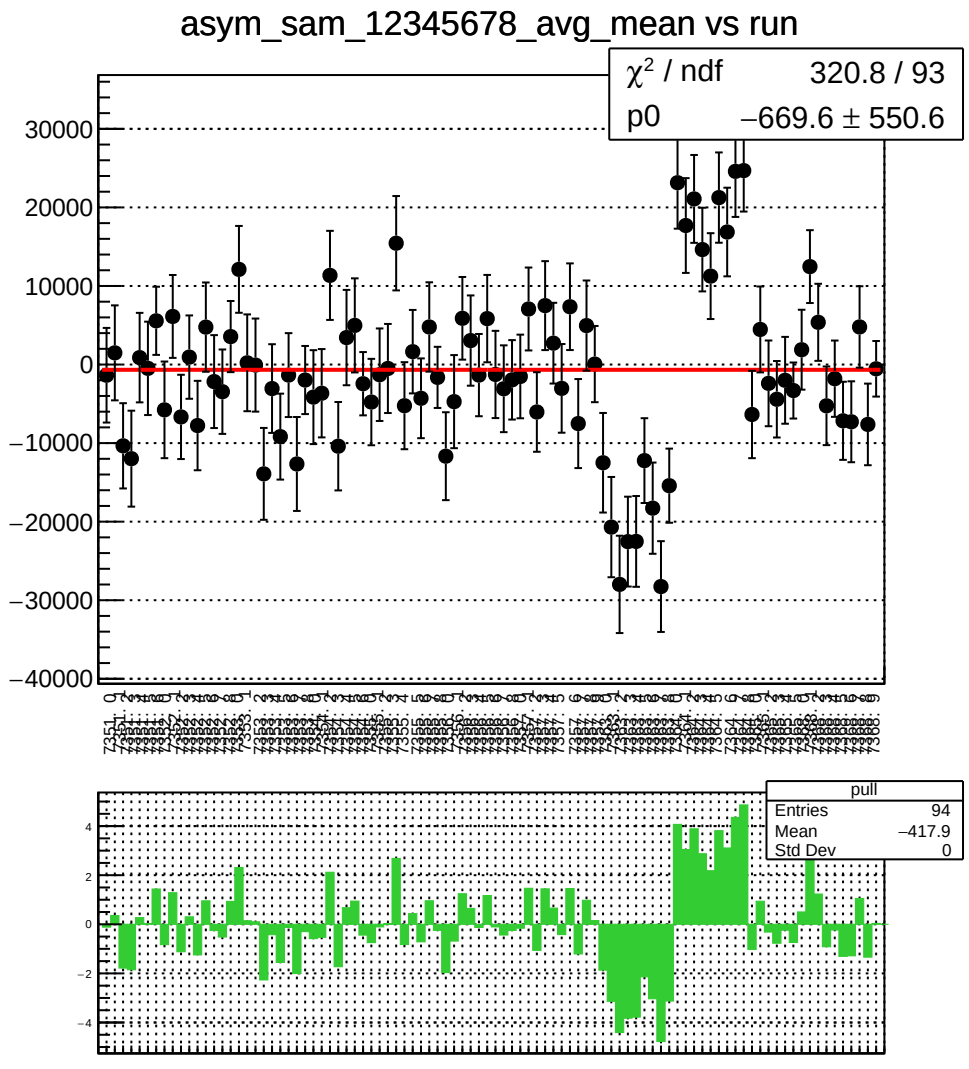

asym_sam_12345678_avg_dit_correction_rms vs run
χ² / ndf 7897 / 93
p0 569.1 ± 0.423
680
660
640
620
600
580
560
540
520
500
480

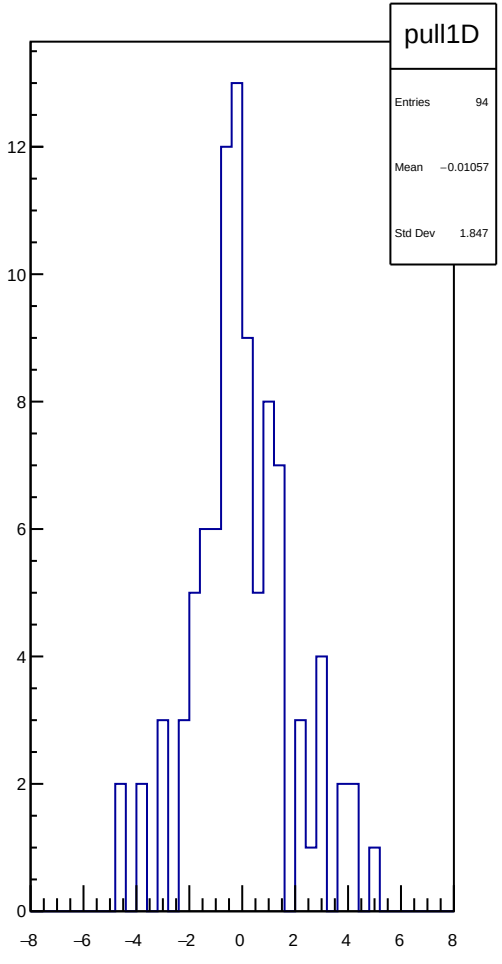

eigen_dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 103.9 / 93
p0 −320.8 ± 148.7
pull
Entries 94
Mean −50.67
Std Dev 0
pull1D
Entries 94
Mean 0.02647
Std Dev 1.051

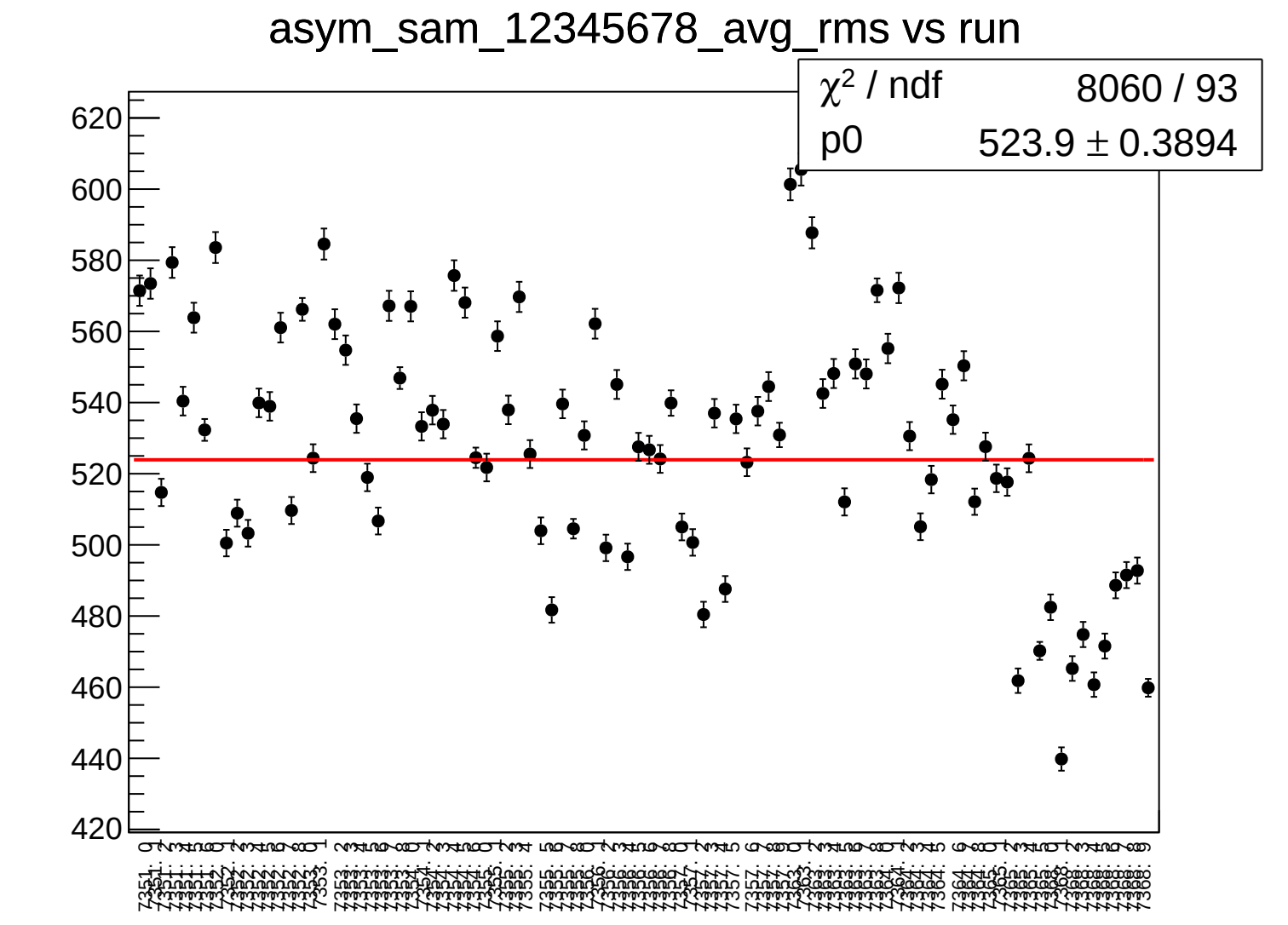

eigen_dit_asym_sam_12345678_avg_rms vs run
χ^2 / ndf 6.038e+04 / 93
p0 139.4 ± 0.1052
300
250
200
150
100

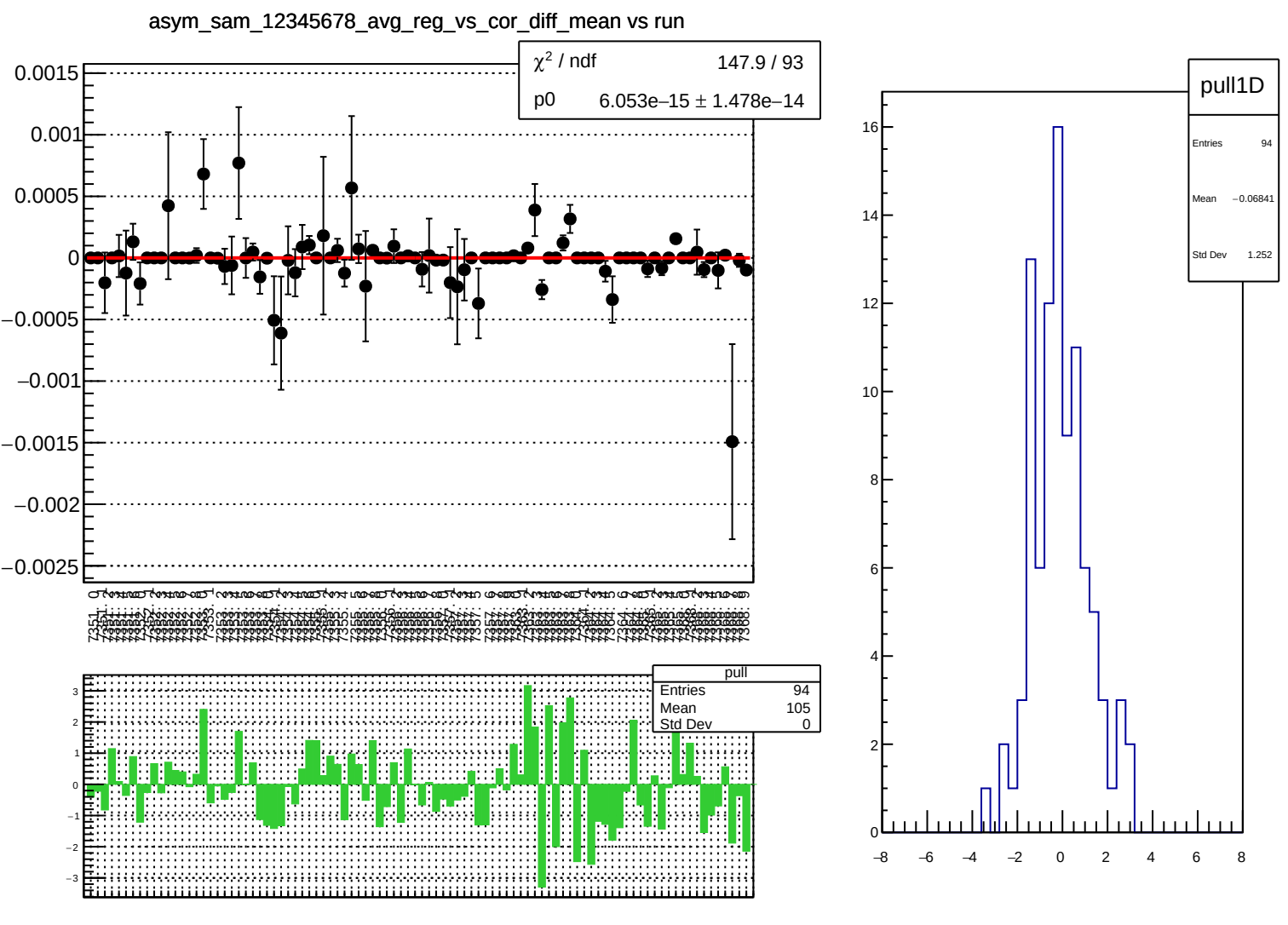

asym_sam_12345678_avg_eigen_dit_correction_mean vs run
χ² / ndf 307.6 / 93
p0 593.8 ± 598.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −7431
Std Dev 0
4
2
0
−2
−4
pull1D
Entries 94
Mean 0.0006962
Std Dev 1.809
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

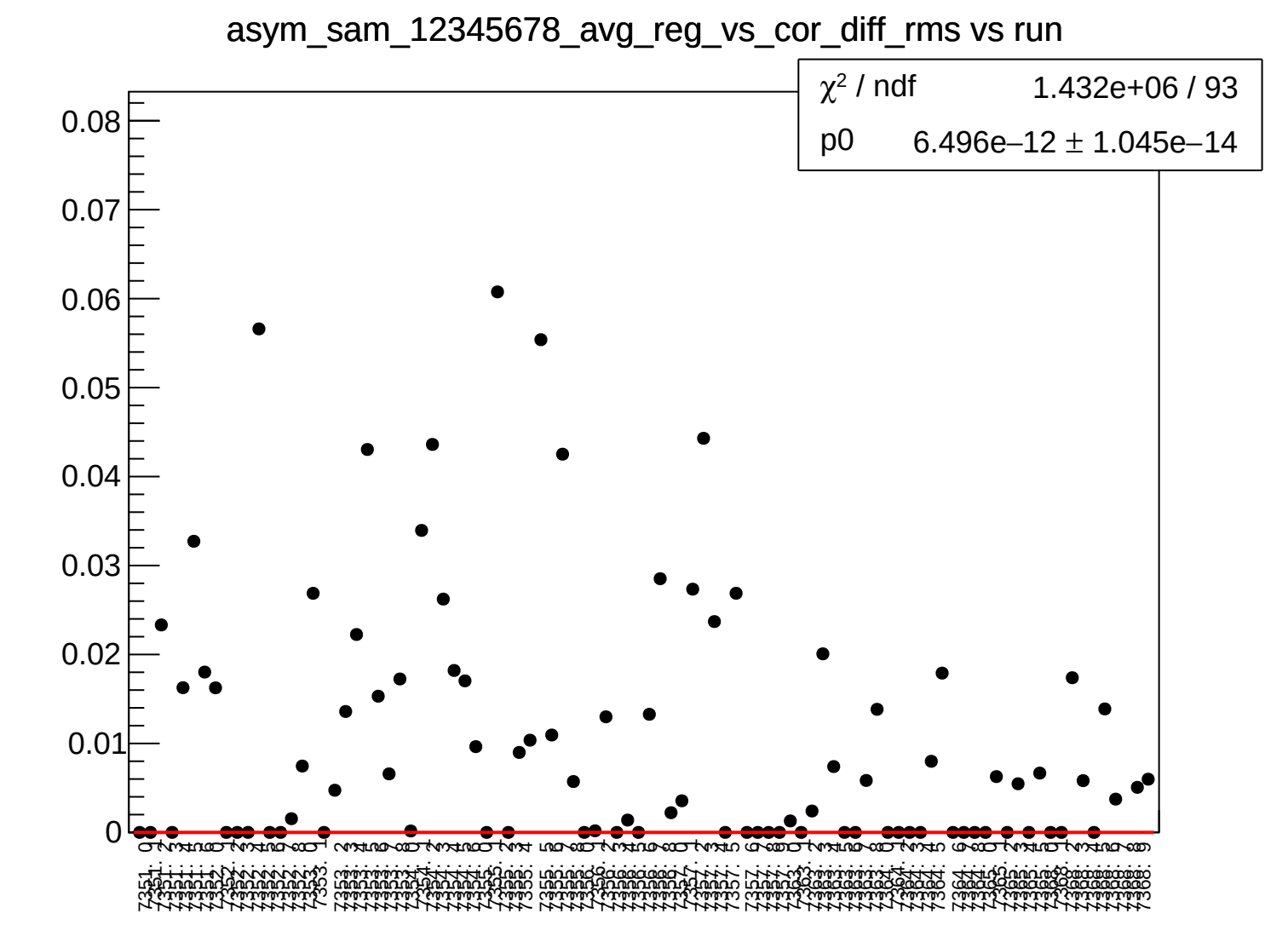

asym_sam_12345678_avg_eigen_dit_correction_rms vs run
χ² / ndf 7897 / 93
p0 569.1 ± 0.423
680
660
640
620
600
580
560
540
520
500
480

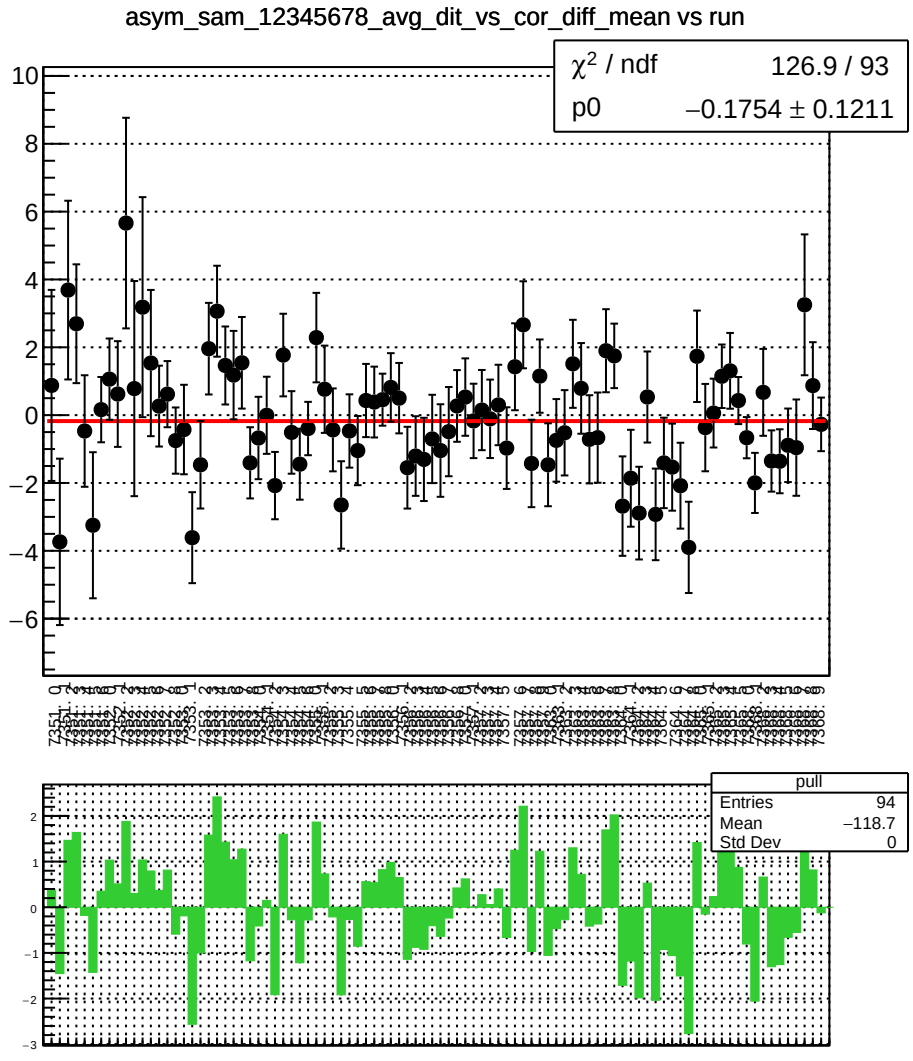

asym_sam_12345678_avg_mean vs run
χ² / ndf 320.8 / 93
p0 −669.6 ± 550.6
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 94
Mean −417.9
Std Dev 0
4
2
0
−2
−4

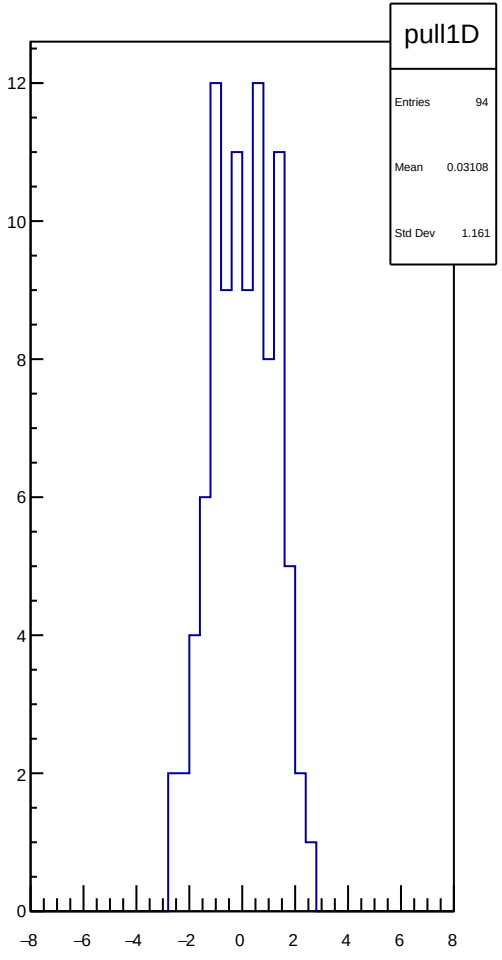

pull1D
Entries 94
Mean −0.01057
Std Dev 1.847
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

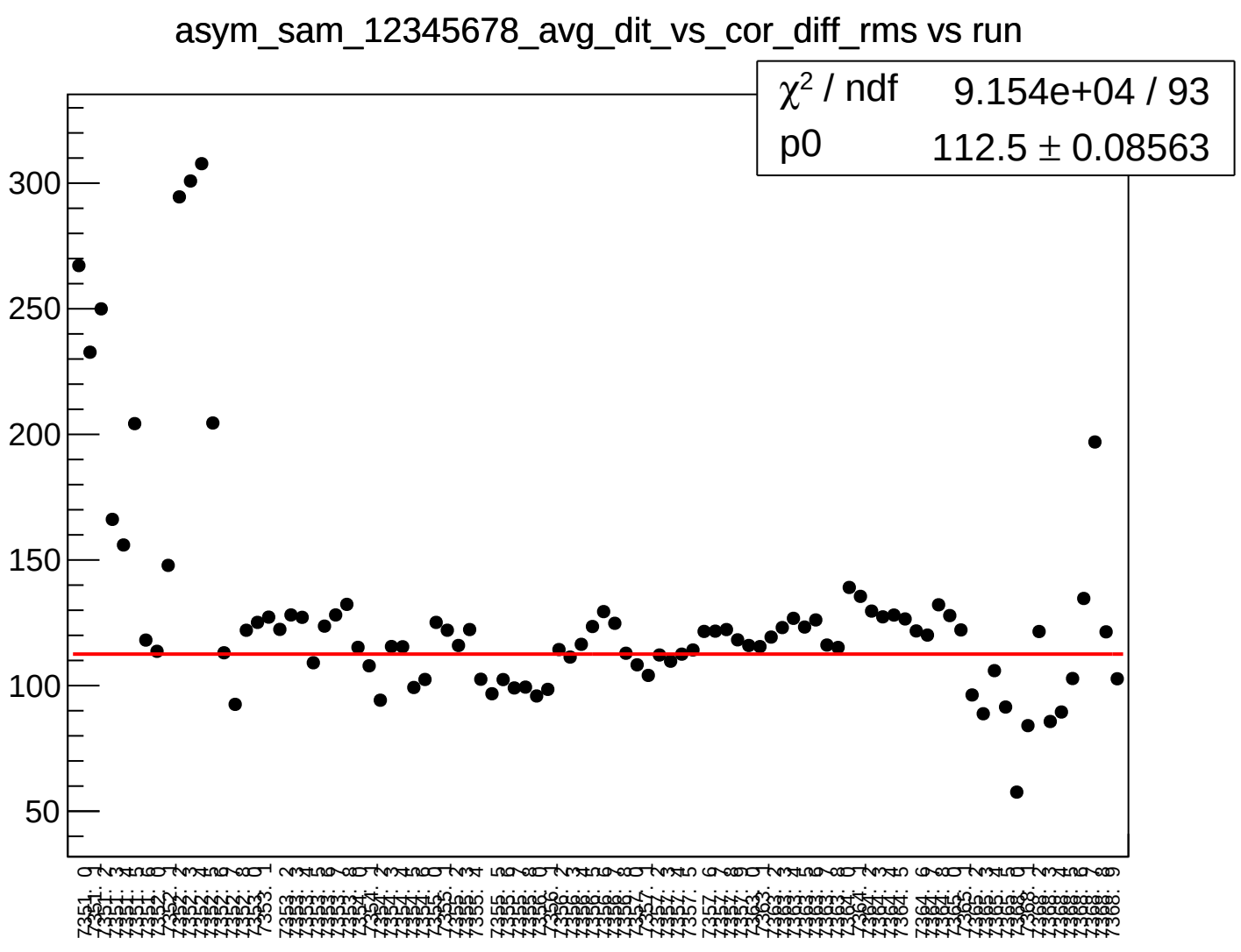

asym_sam_12345678_avg_rms vs run
χ² / ndf 8060 / 93
p0 523.9 ± 0.3894
620
600
580
560
540
520
500
480
460
440
420

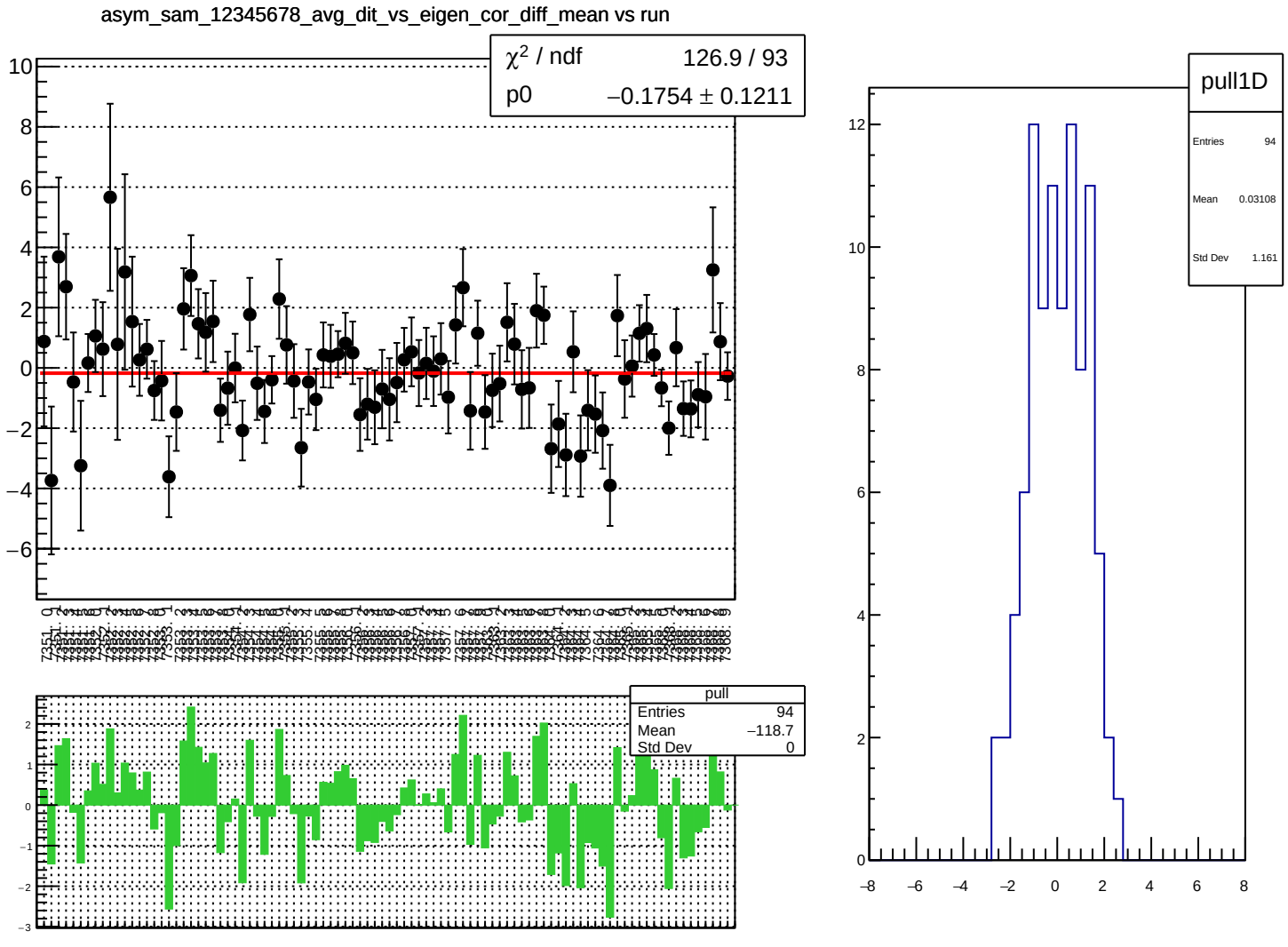

asym_sam_12345678_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 147.9 / 93
p0 6.053e−15 ± 1.478e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
−0.0025
pull
Entries 94
Mean 105
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.06841
Std Dev 1.252
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

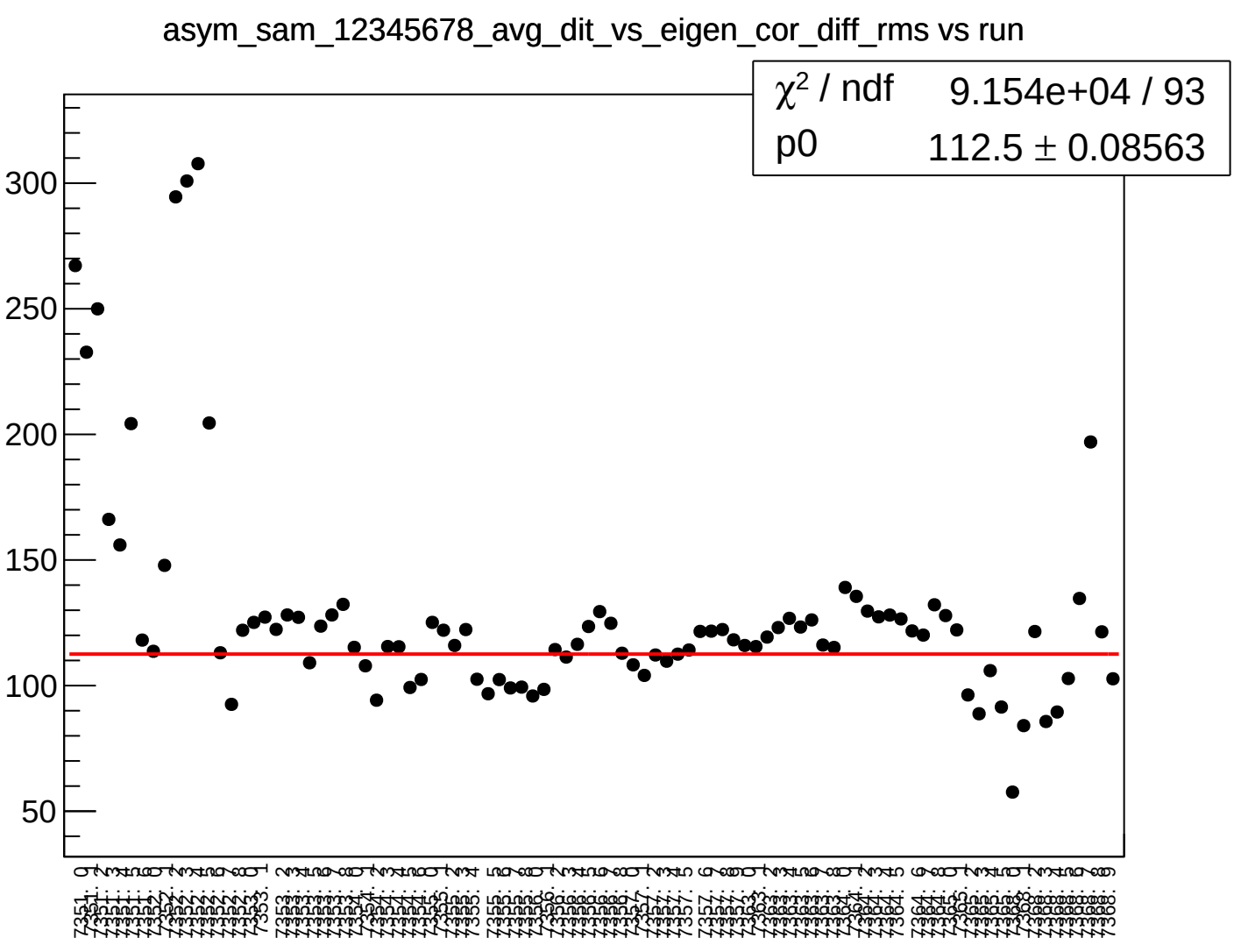

asym_sam_12345678_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.432e+06 / 93
p0 6.496e−12 ± 1.045e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

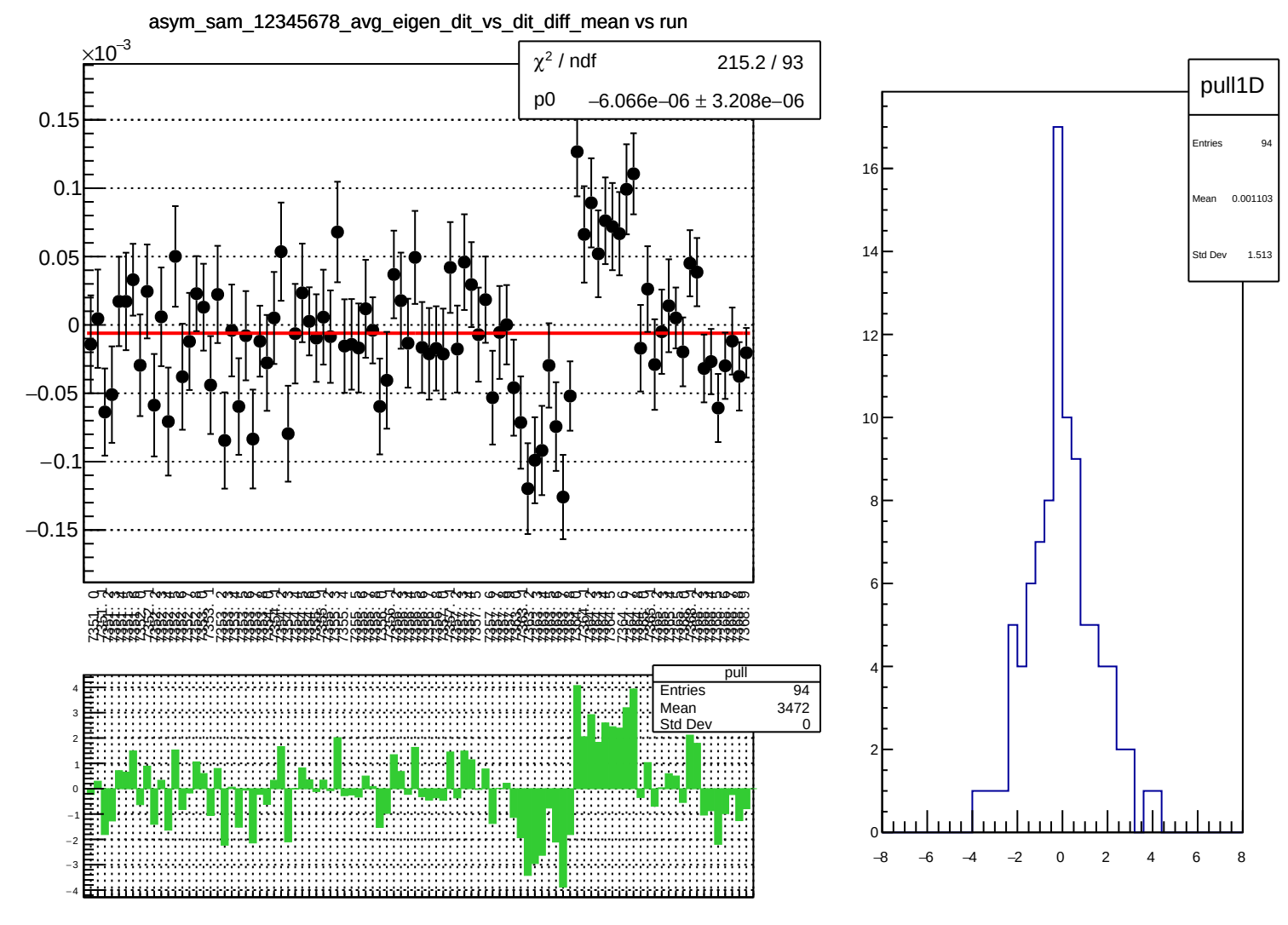

asym_sam_12345678_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 126.9 / 93
p0 −0.1754 ± 0.1211
pull
Entries 94
Mean −118.7
Std Dev 0

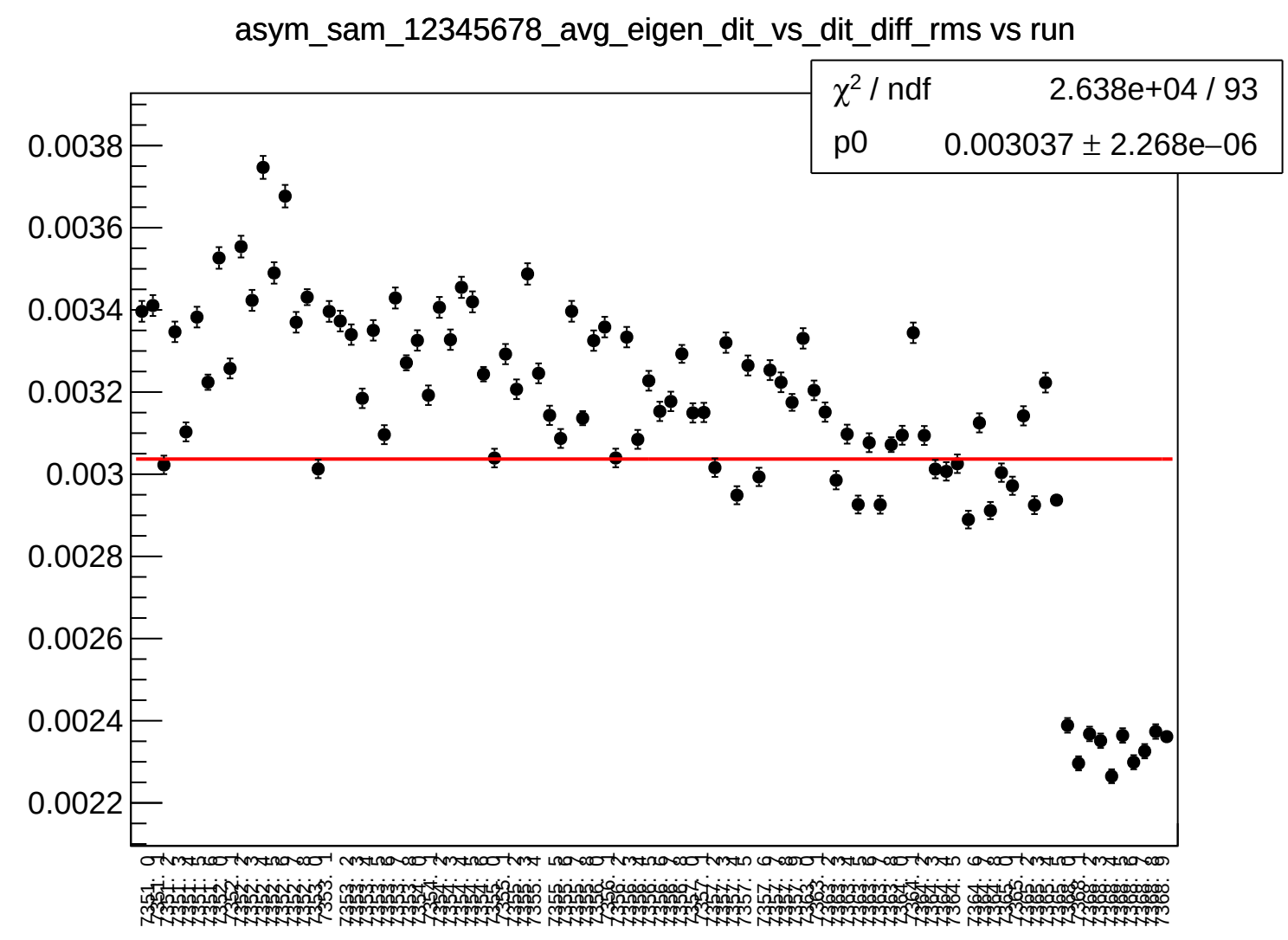

pull1D
Entries 94
Mean 0.03108
Std Dev 1.161

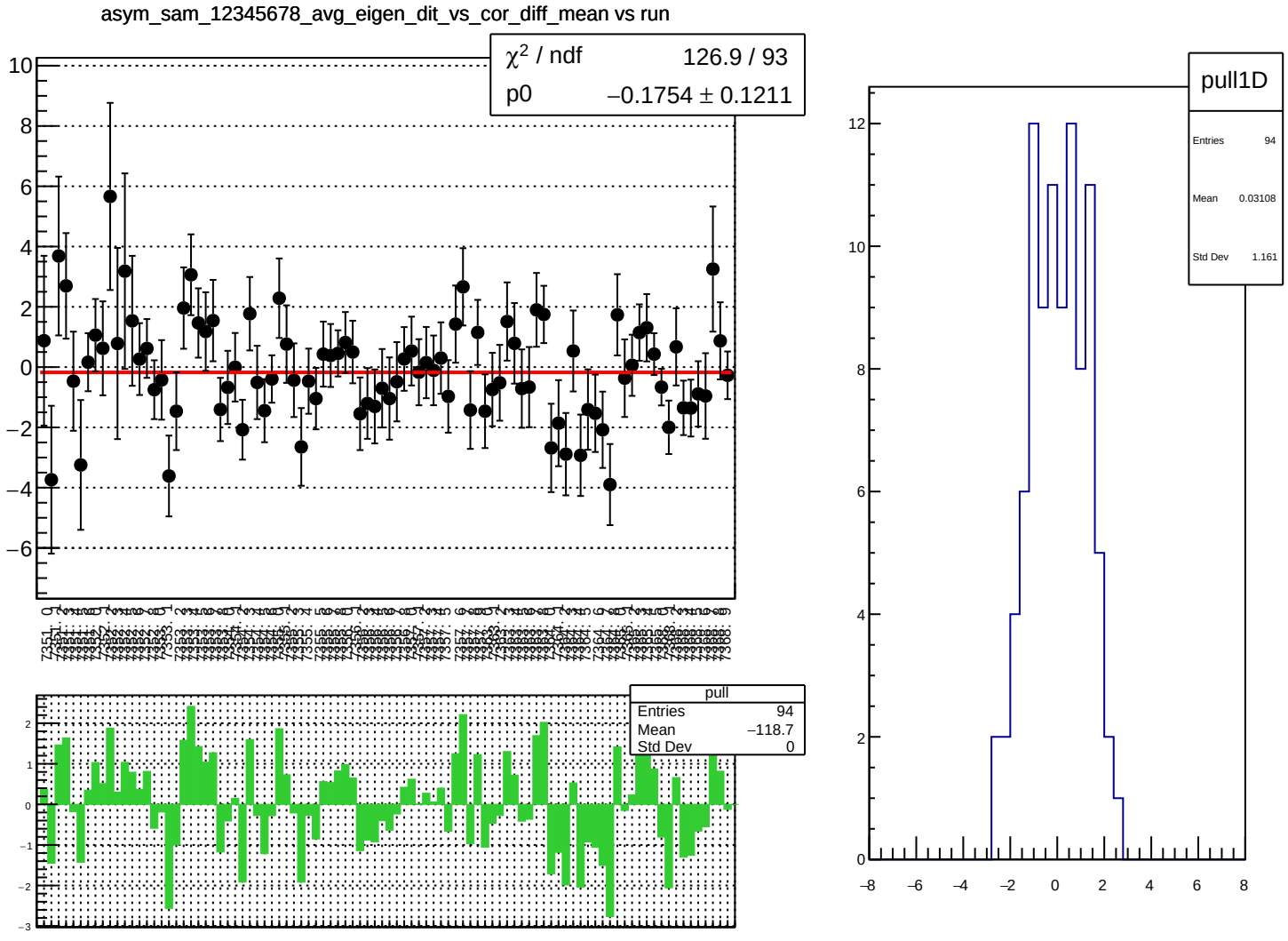

asym_sam_12345678_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 9.154e+04 / 93
p0 112.5 ± 0.08563
300
250
200
150
100
50

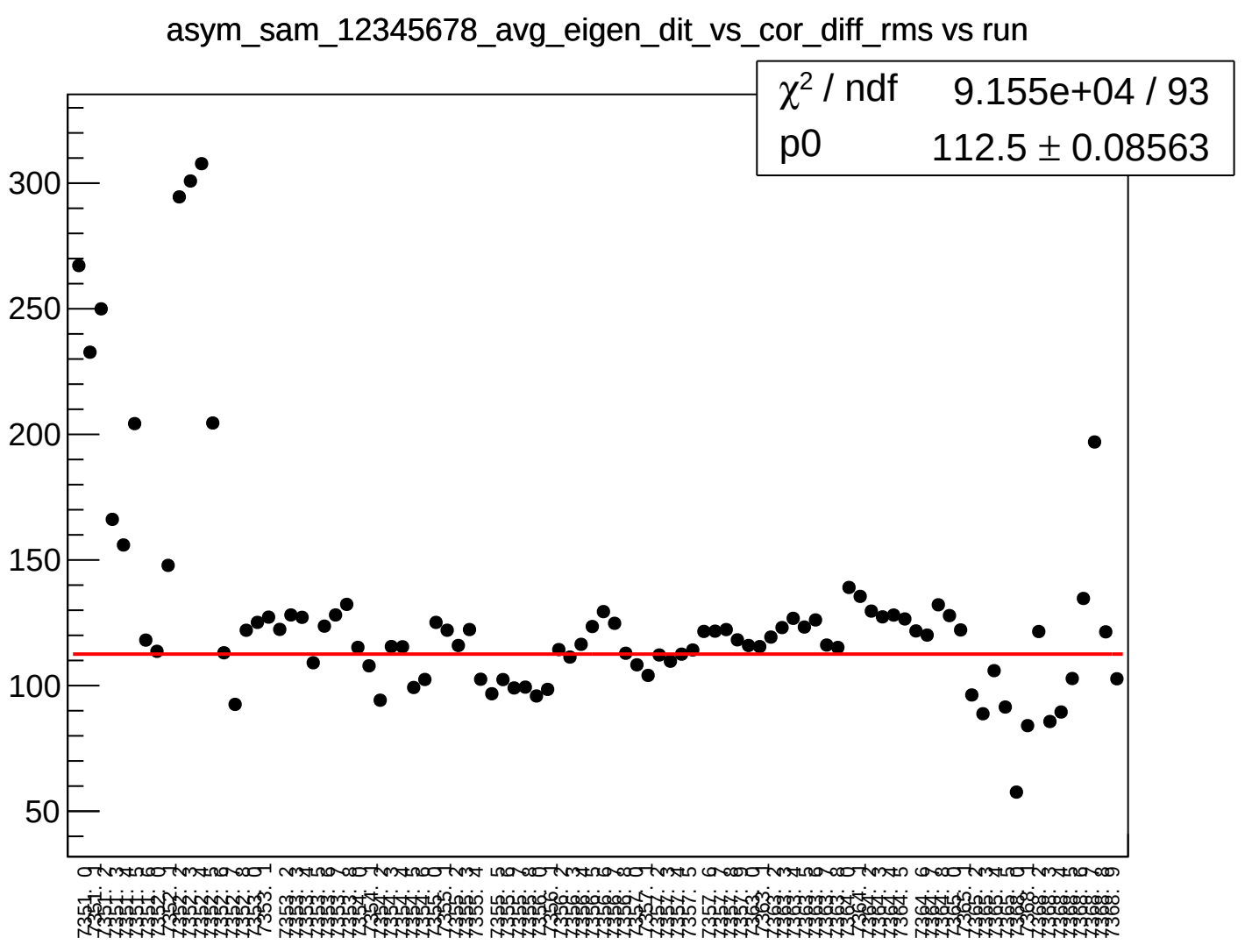

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 126.9 / 93
p0 −0.1754 ± 0.1211
pull
Entries 94
Mean −118.7
Std Dev 0
pull1D
Entries 94
Mean 0.03108
Std Dev 1.161

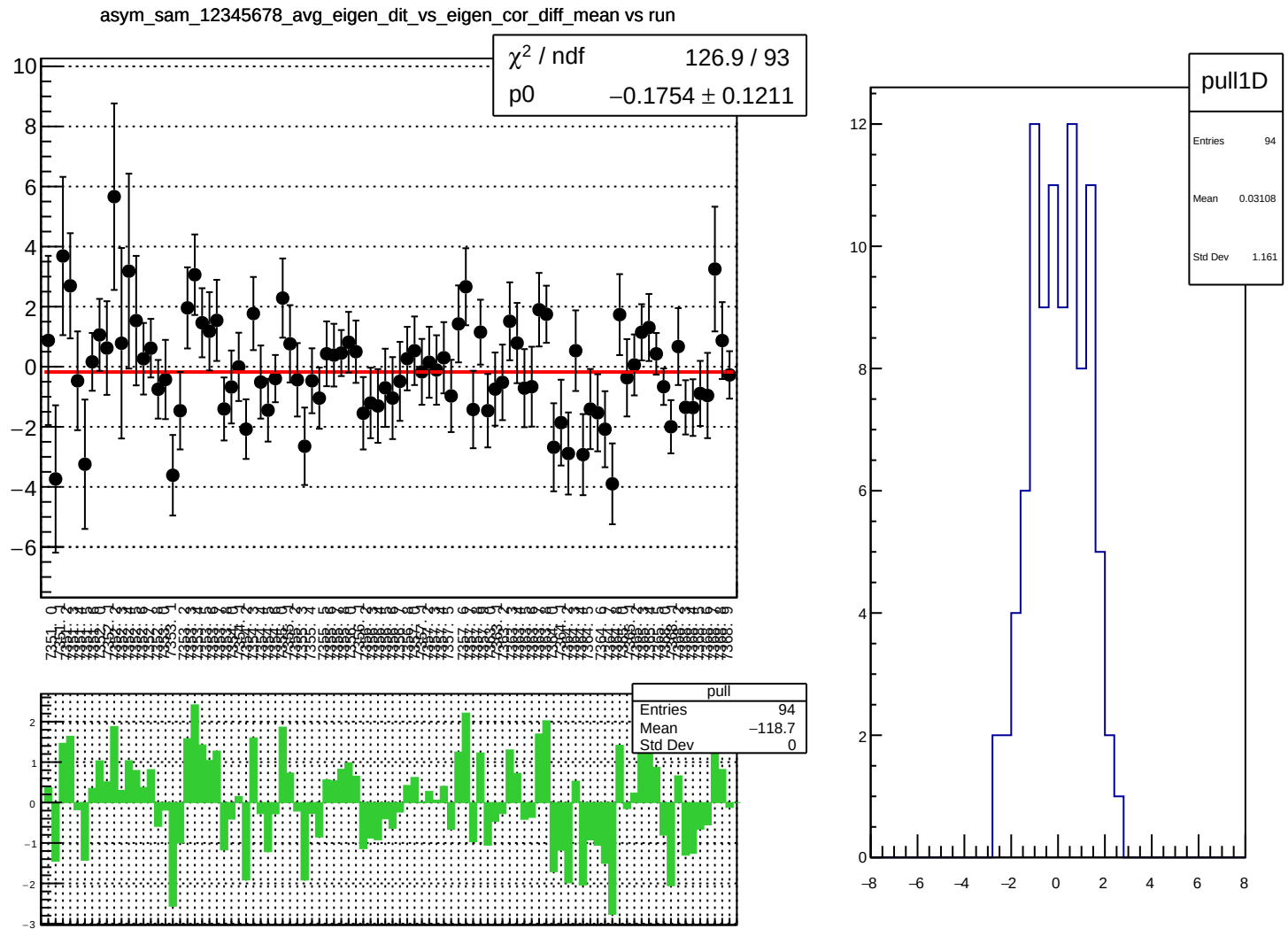

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.154e+04 / 93
p0 112.5 ± 0.08563
300
250
200
150
100
50

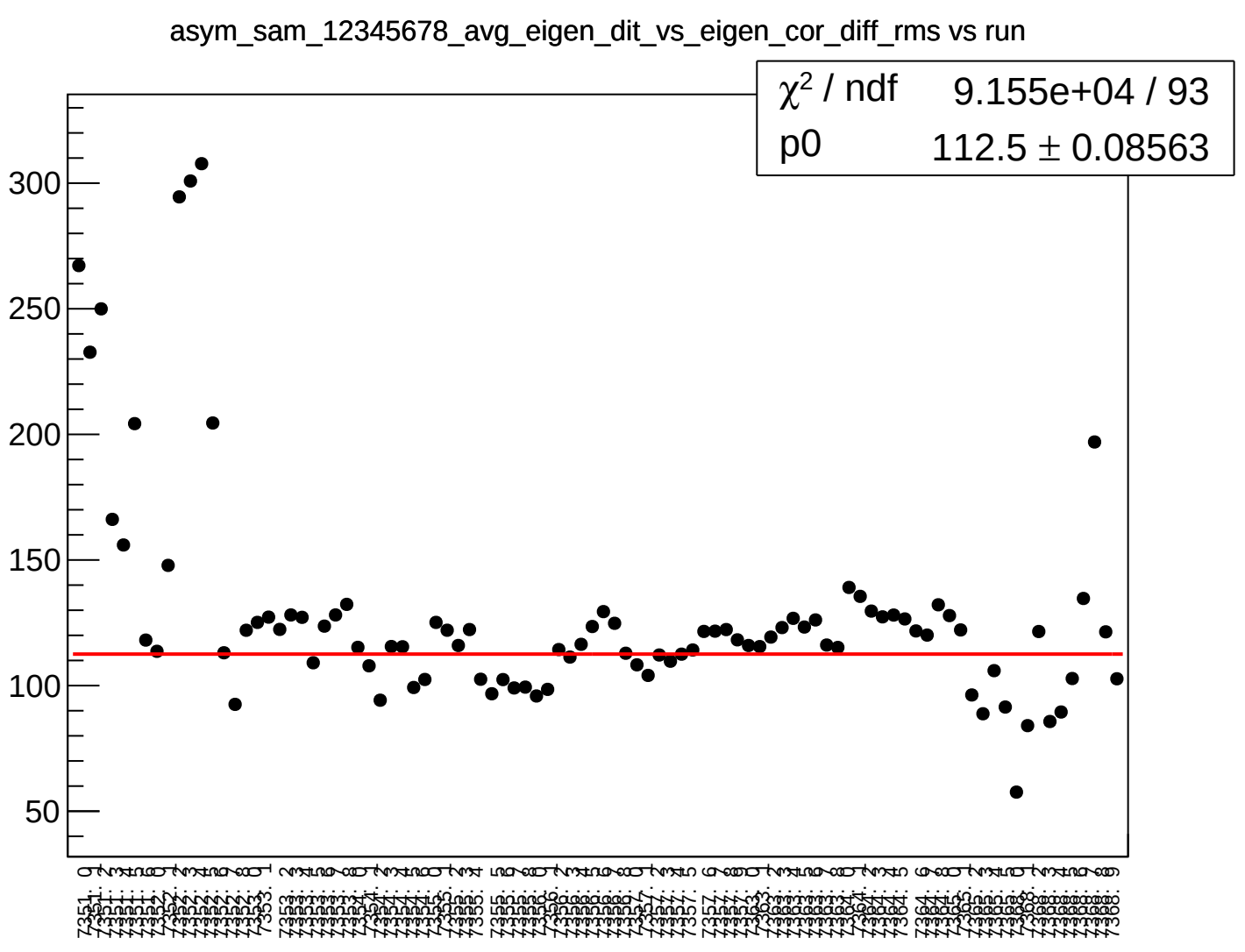

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 215.2 / 93
p0 −6.066e−06 ± 3.208e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 94
Mean 3472
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 94
Mean 0.001103
Std Dev 1.513
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

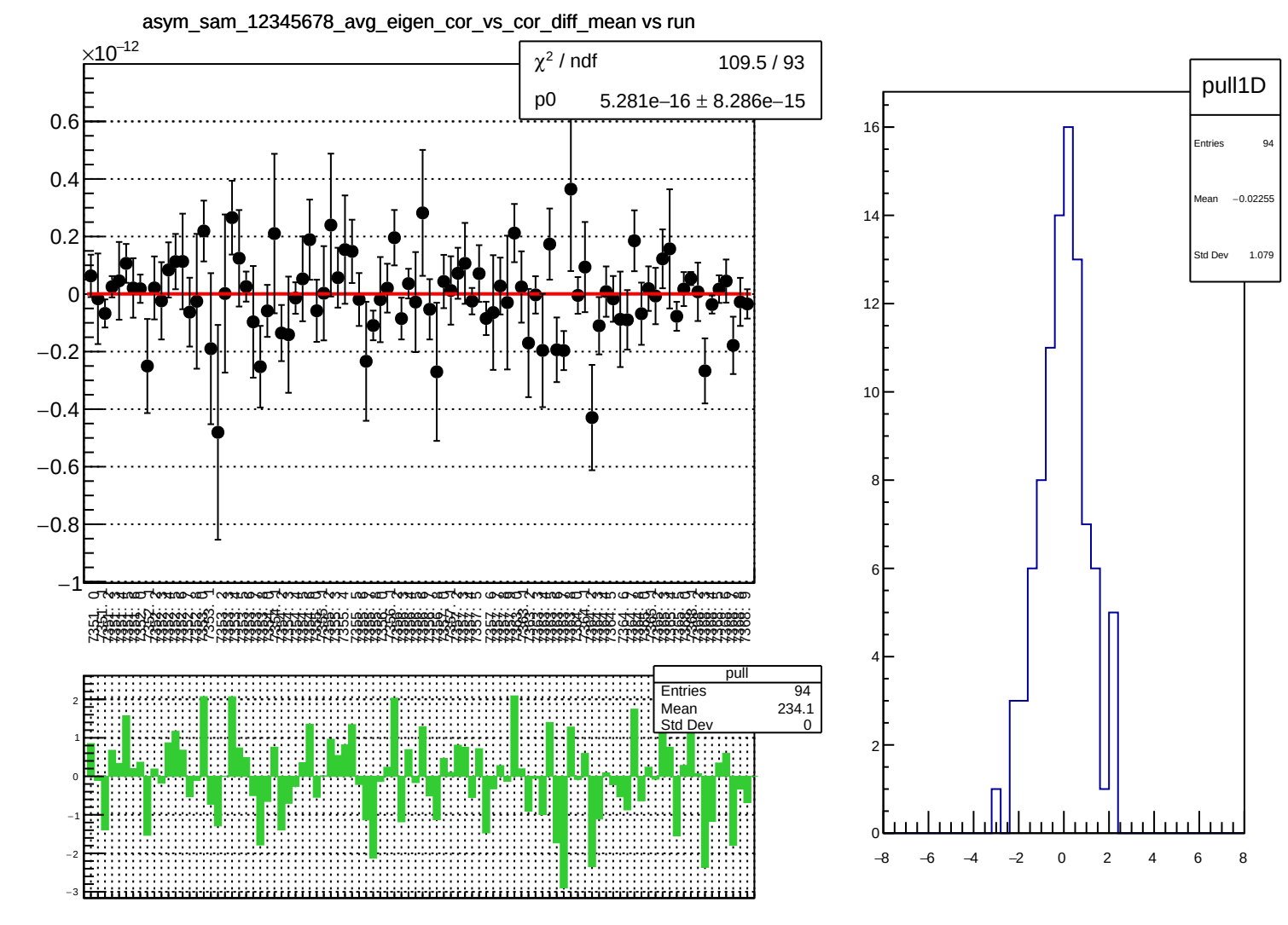

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.638e+04 / 93
p0 0.003037 ± 2.268e−06
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022

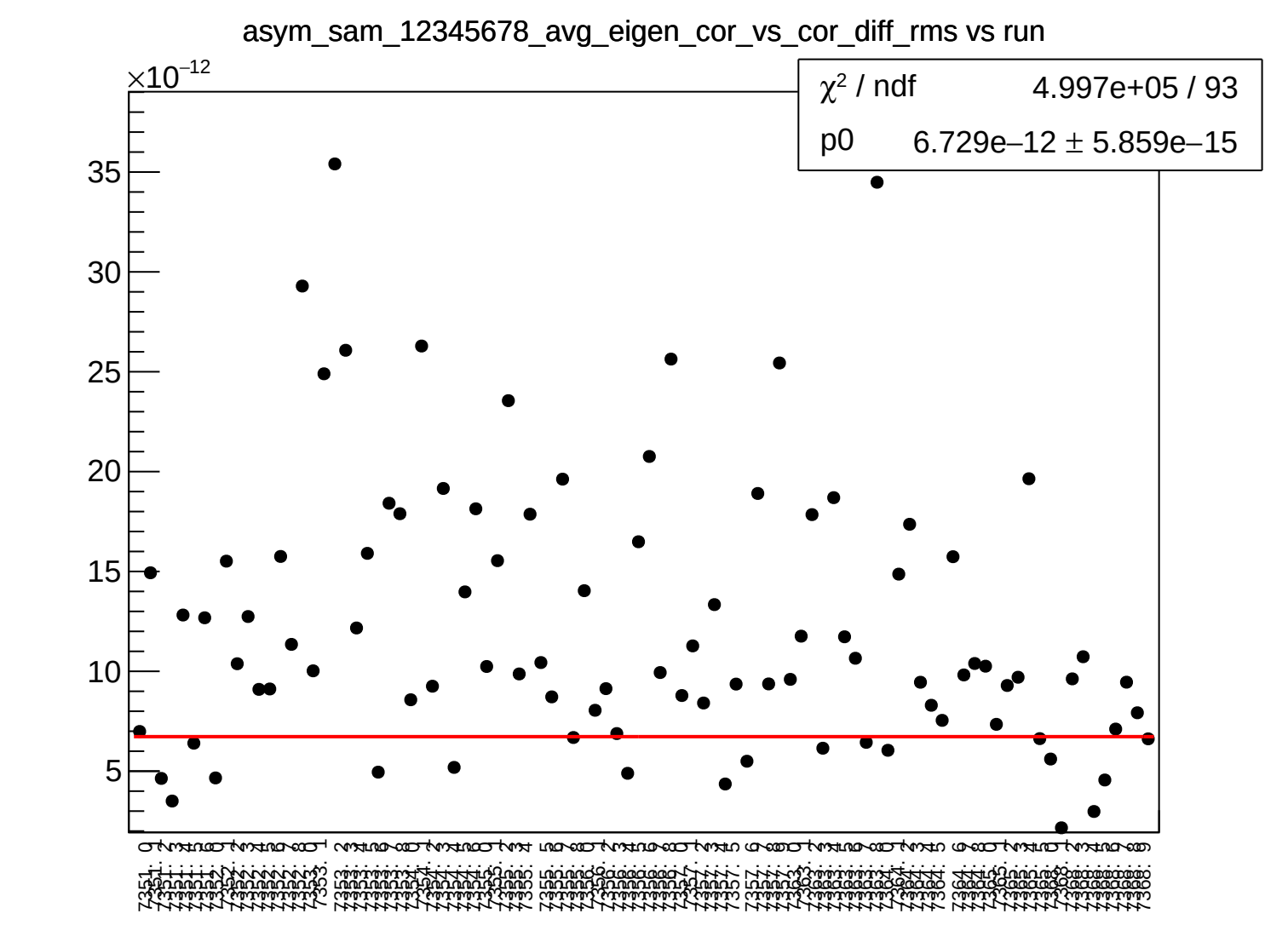

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 126.9 / 93
p0 −0.1754 ± 0.1211
pull
Entries 94
Mean −118.7
Std Dev 0
pull1D
Entries 94
Mean 0.03108
Std Dev 1.161

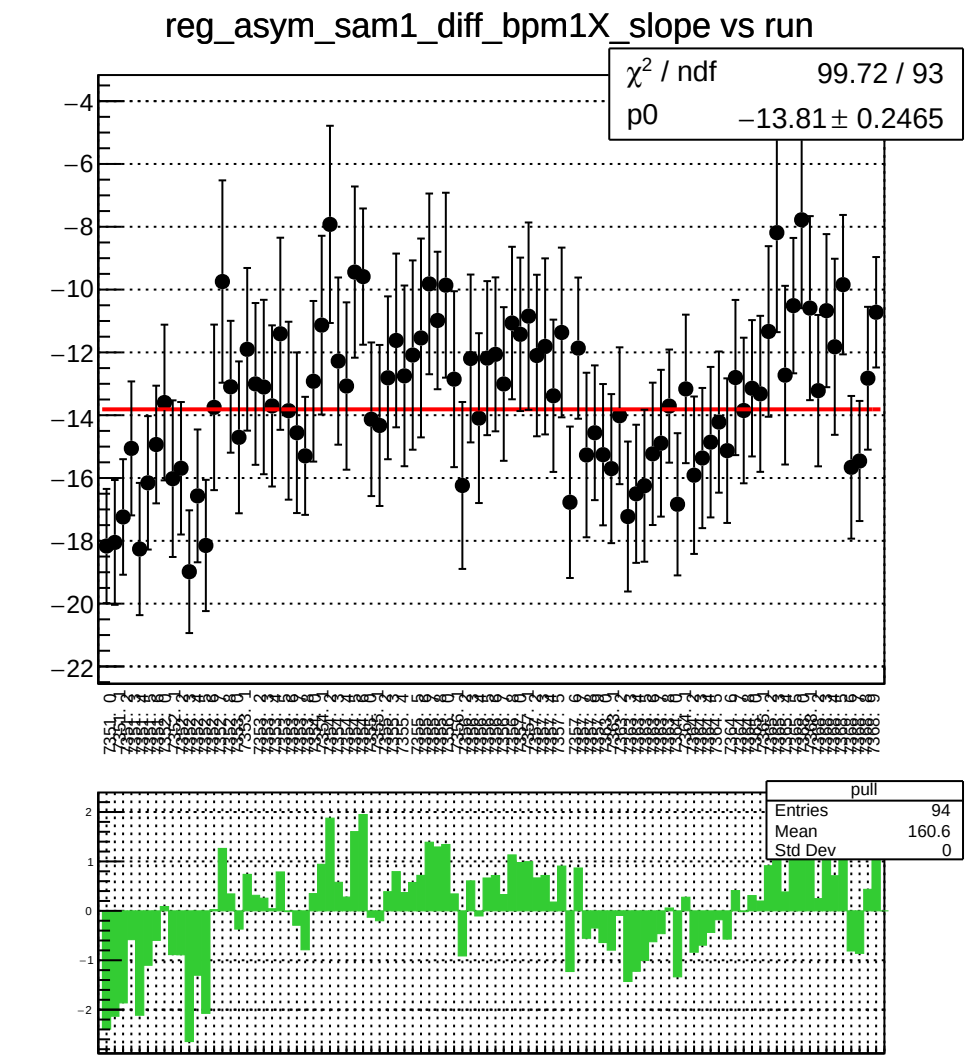

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.155e+04 / 93
p0 112.5 ± 0.08563
300
250
200
150
100
50

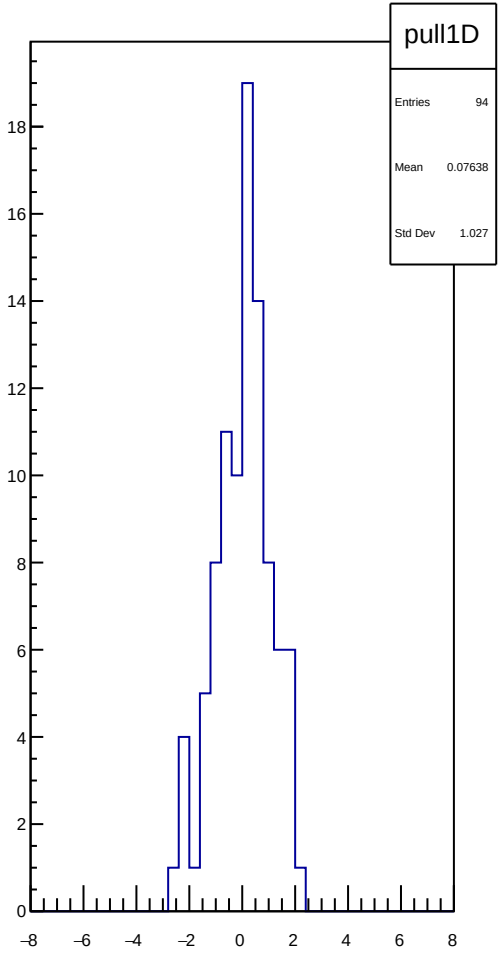

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 126.9 / 93
p0 −0.1754 ± 0.1211
pull
Entries 94
Mean −118.7
Std Dev 0
pull1D
Entries 94
Mean 0.03108
Std Dev 1.161

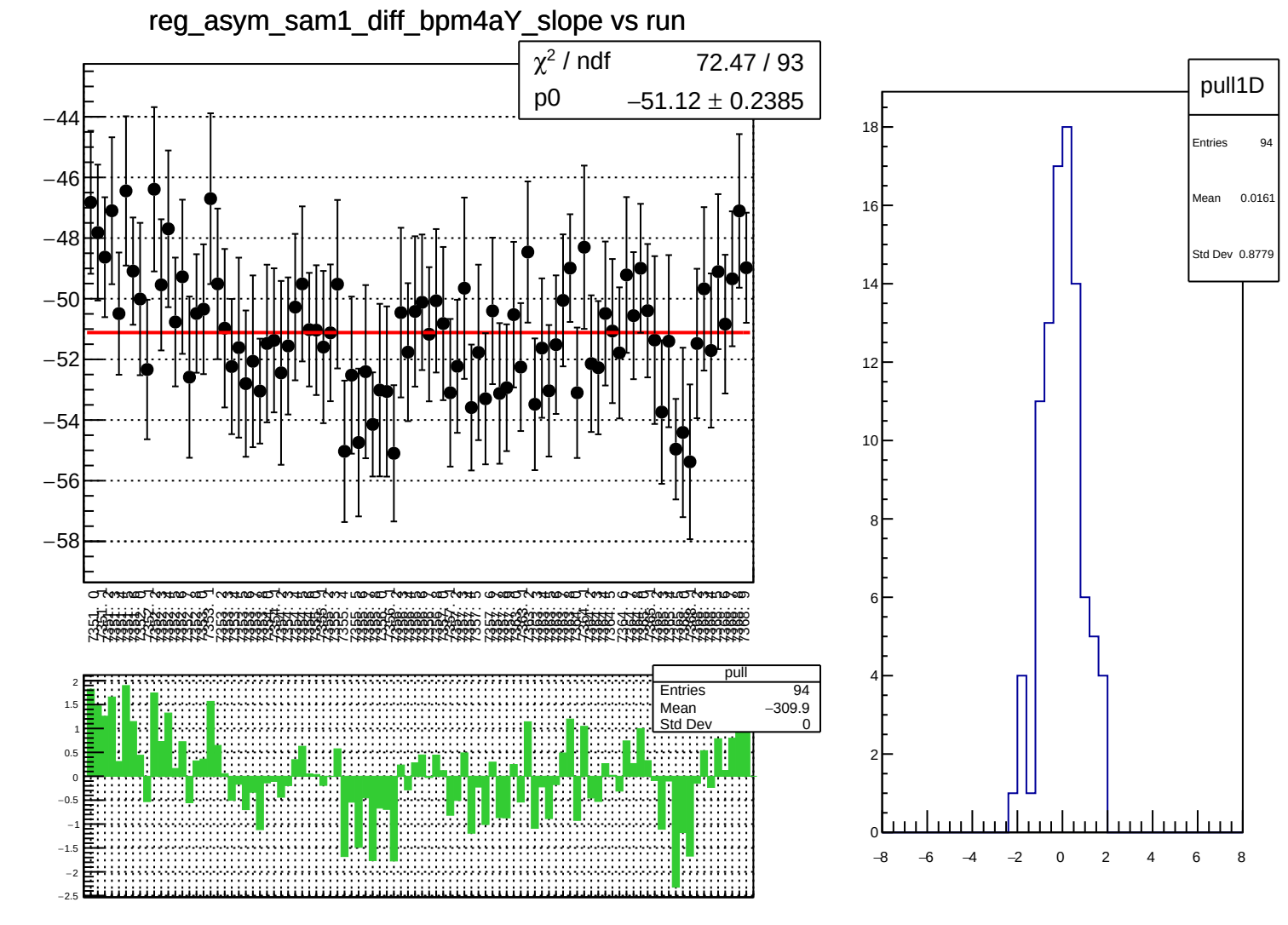

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.155e+04 / 93
p0 112.5 ± 0.08563
300
250
200
150
100
50

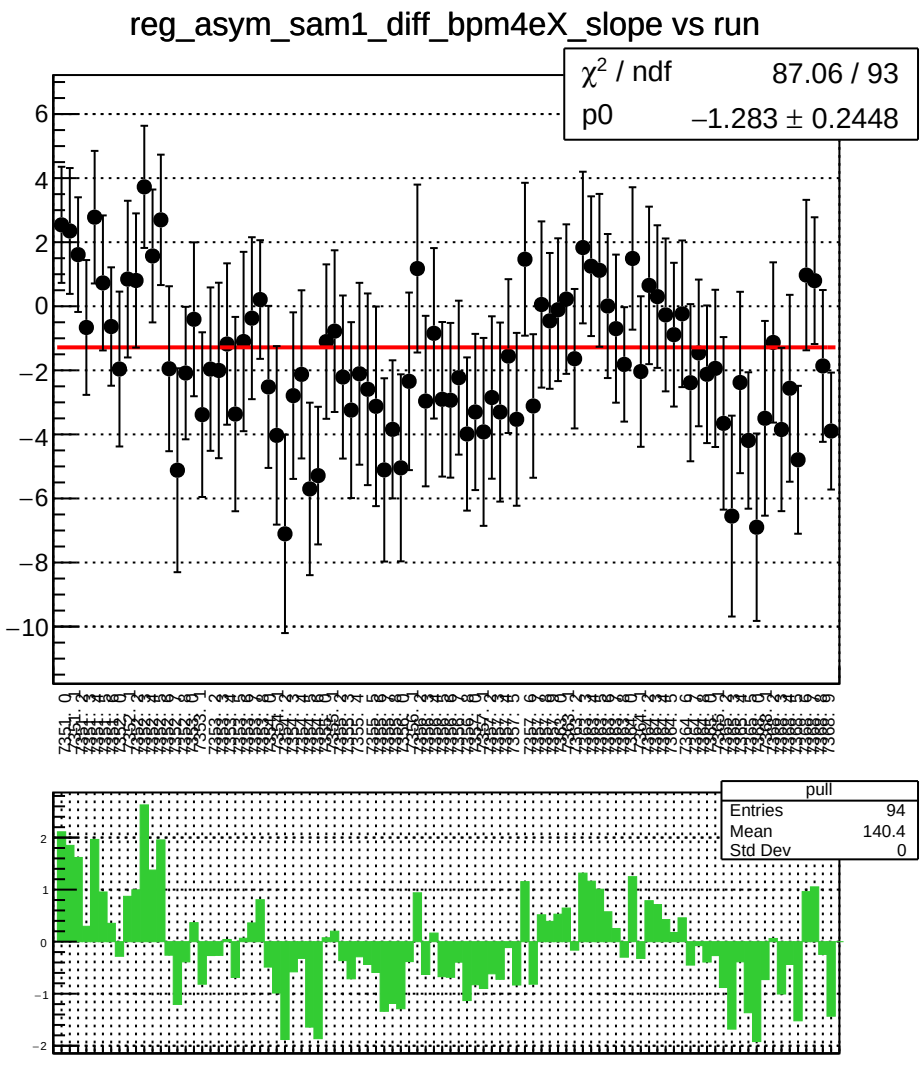

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 109.5 / 93
p0 5.281e−16 ± 8.286e−15
pull
Entries 94
Mean 234.1
Std Dev 0
pull1D
Entries 94
Mean −0.02255
Std Dev 1.079

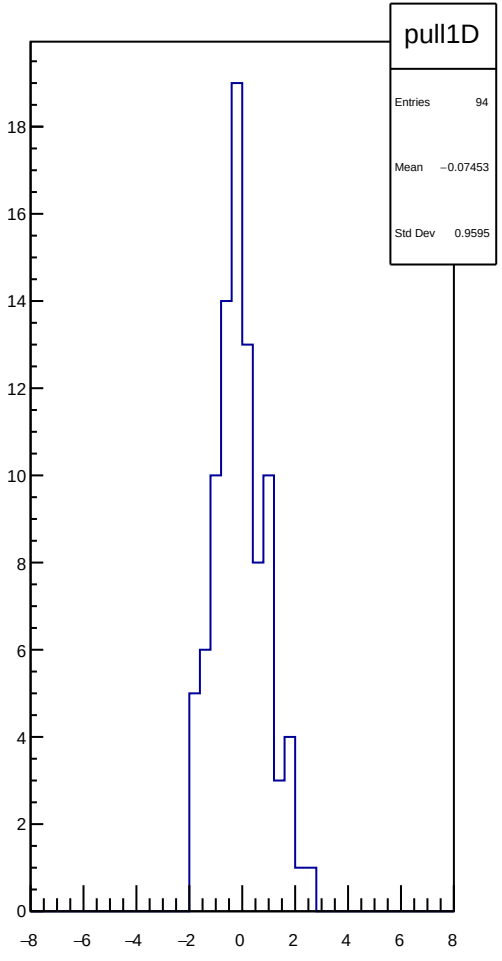

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.997e+05 / 93
p0 6.729e−12 ± 5.859e−15
35
30
25
20
15
10
5

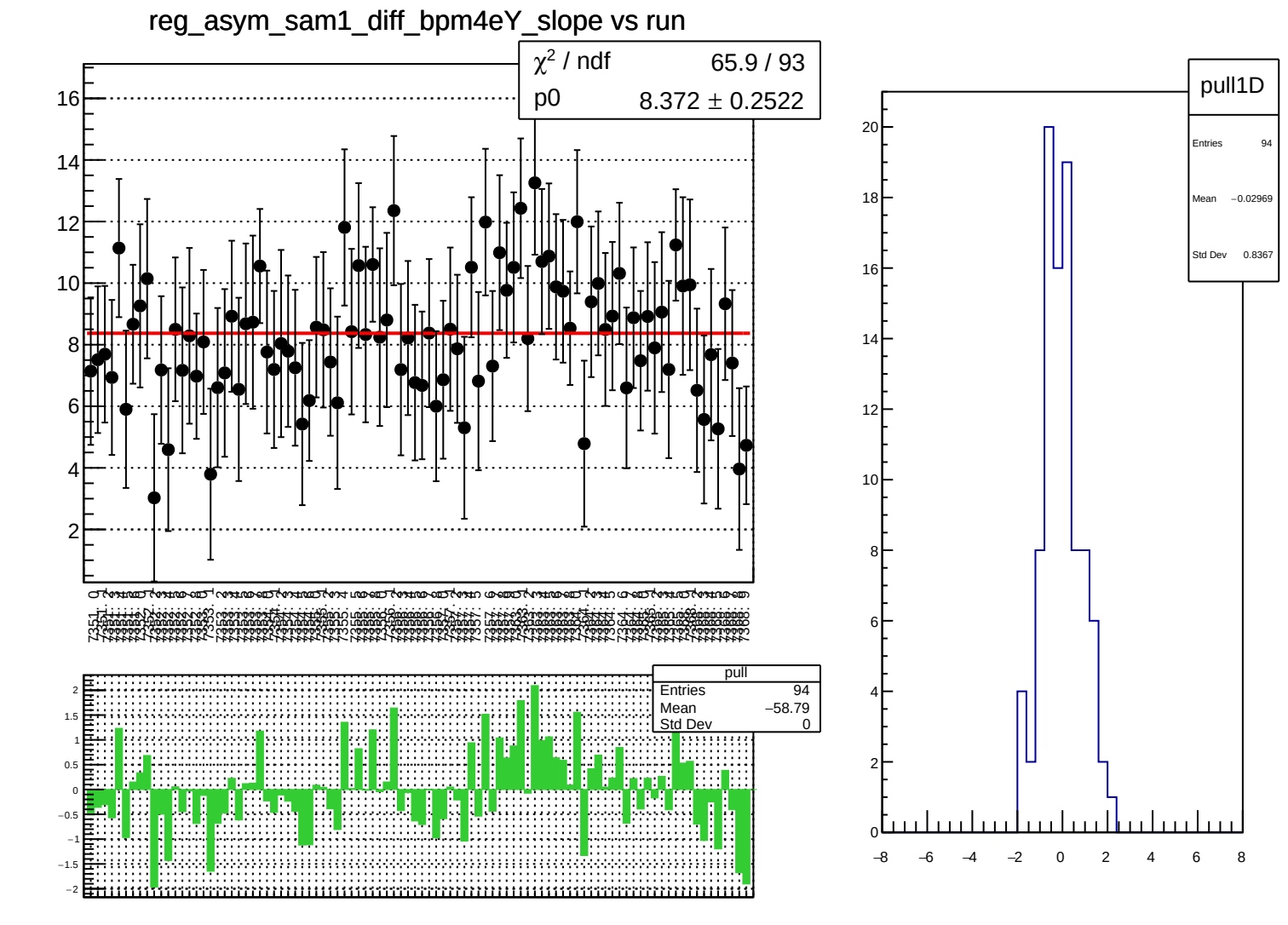

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 99.72 / 93
p0 −13.81 ± 0.2465
pull
Entries 94
Mean 160.6
Std Dev 0

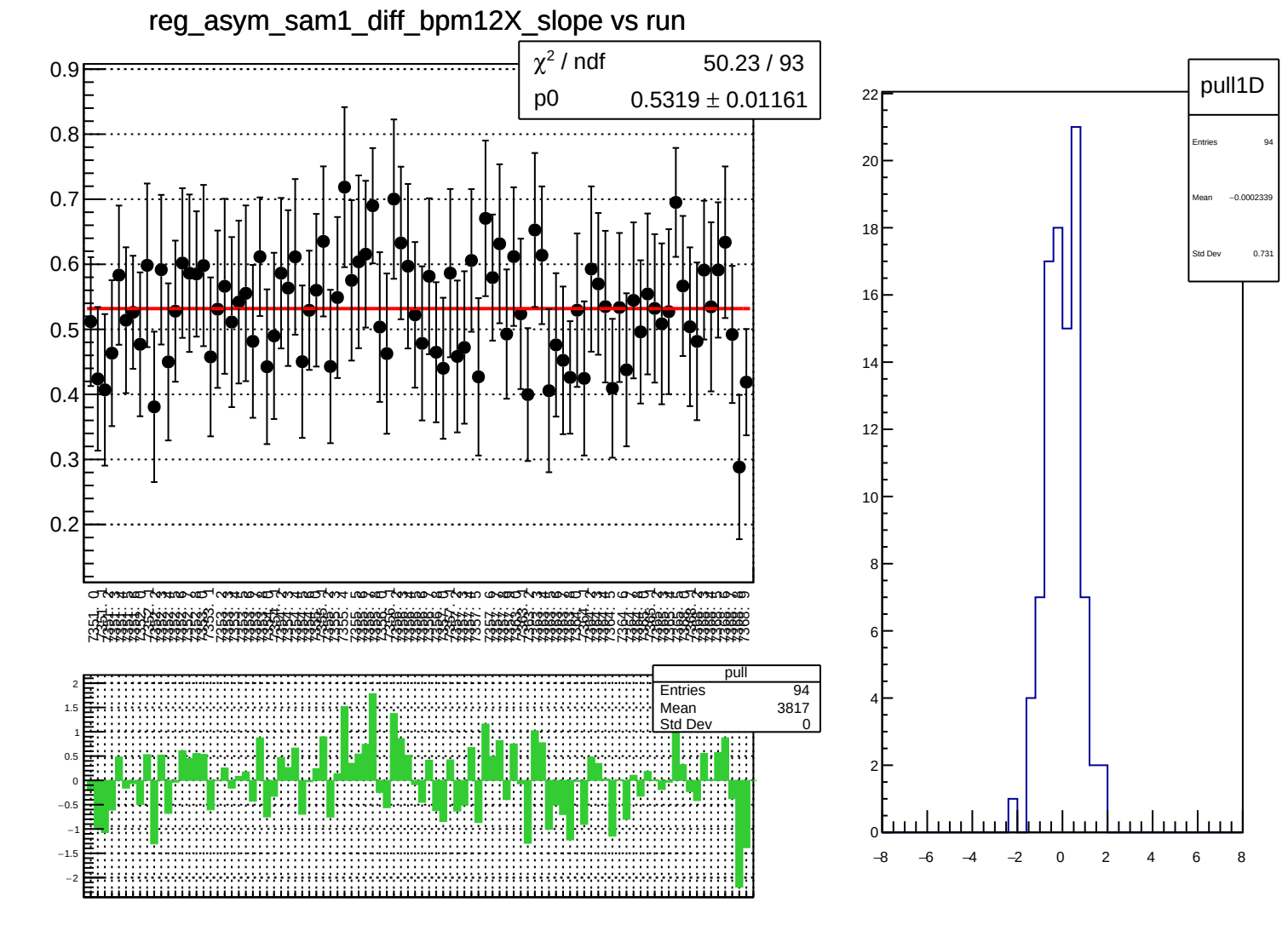

pull1D
Entries 94
Mean 0.07638
Std Dev 1.027

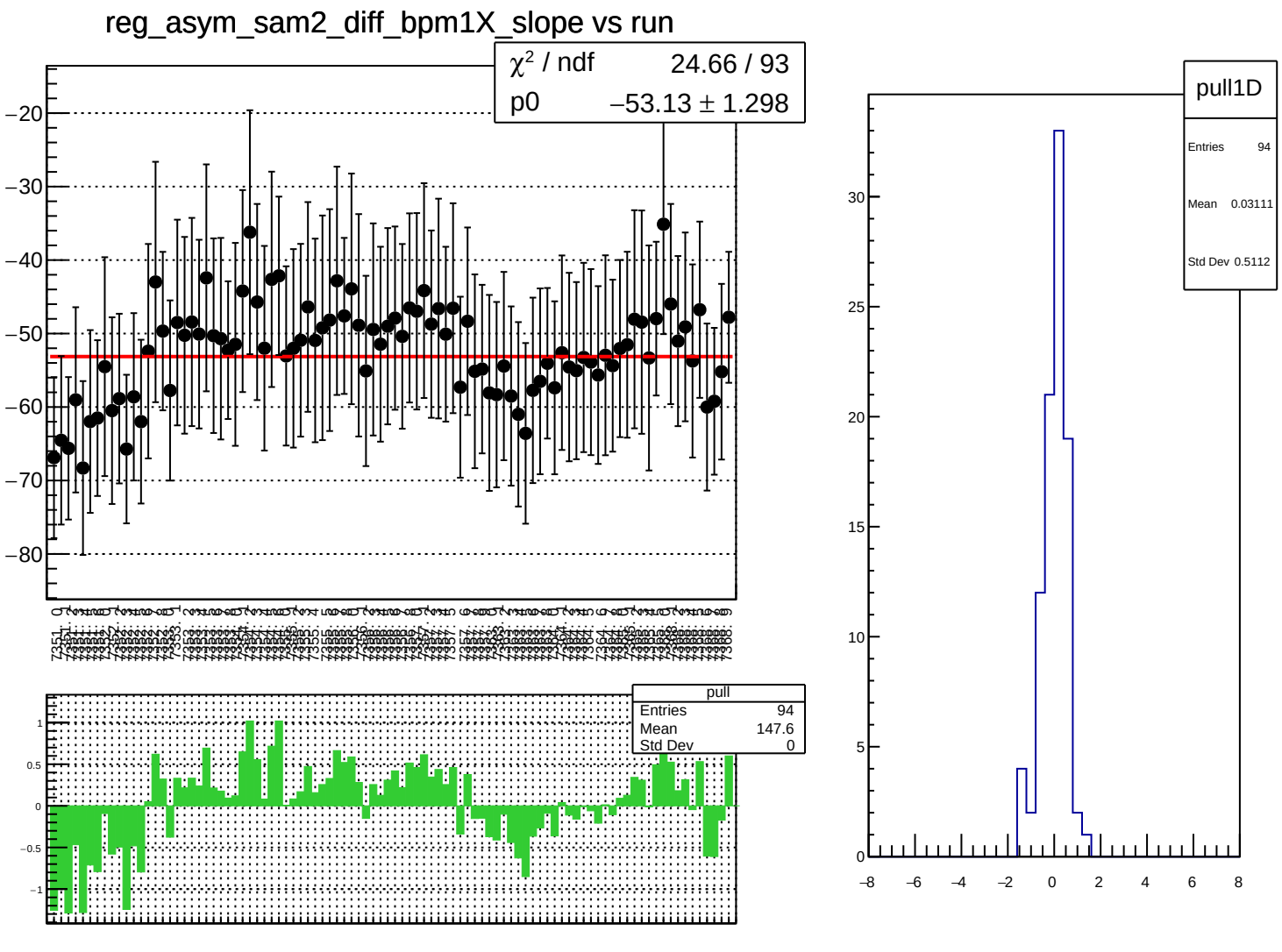

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 72.47 / 93
p0 −51.12 ± 0.2385
pull
Entries 94
Mean −309.9
Std Dev 0
pull1D
Entries 94
Mean 0.0161
Std Dev 0.8779

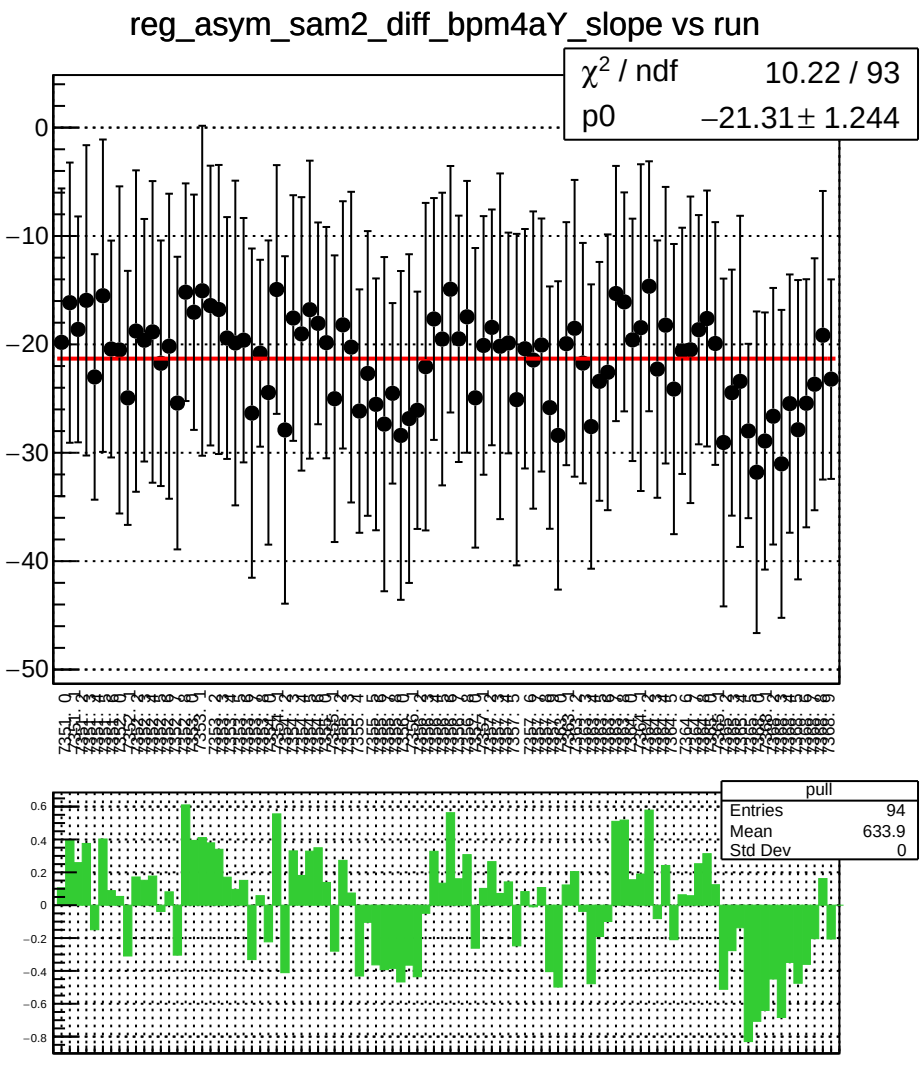

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 87.06 / 93
p0 −1.283 ± 0.2448
pull
Entries 94
Mean 140.4
Std Dev 0

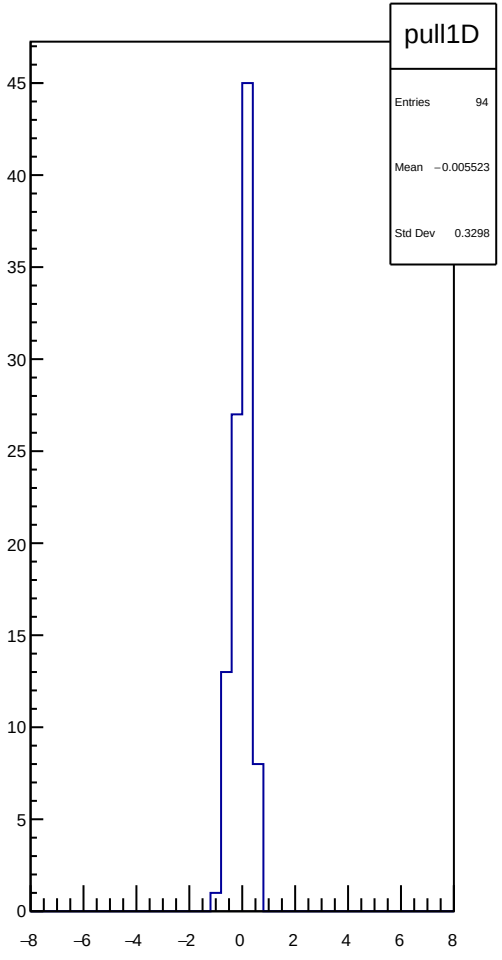

pull1D
Entries 94
Mean −0.07453
Std Dev 0.9595

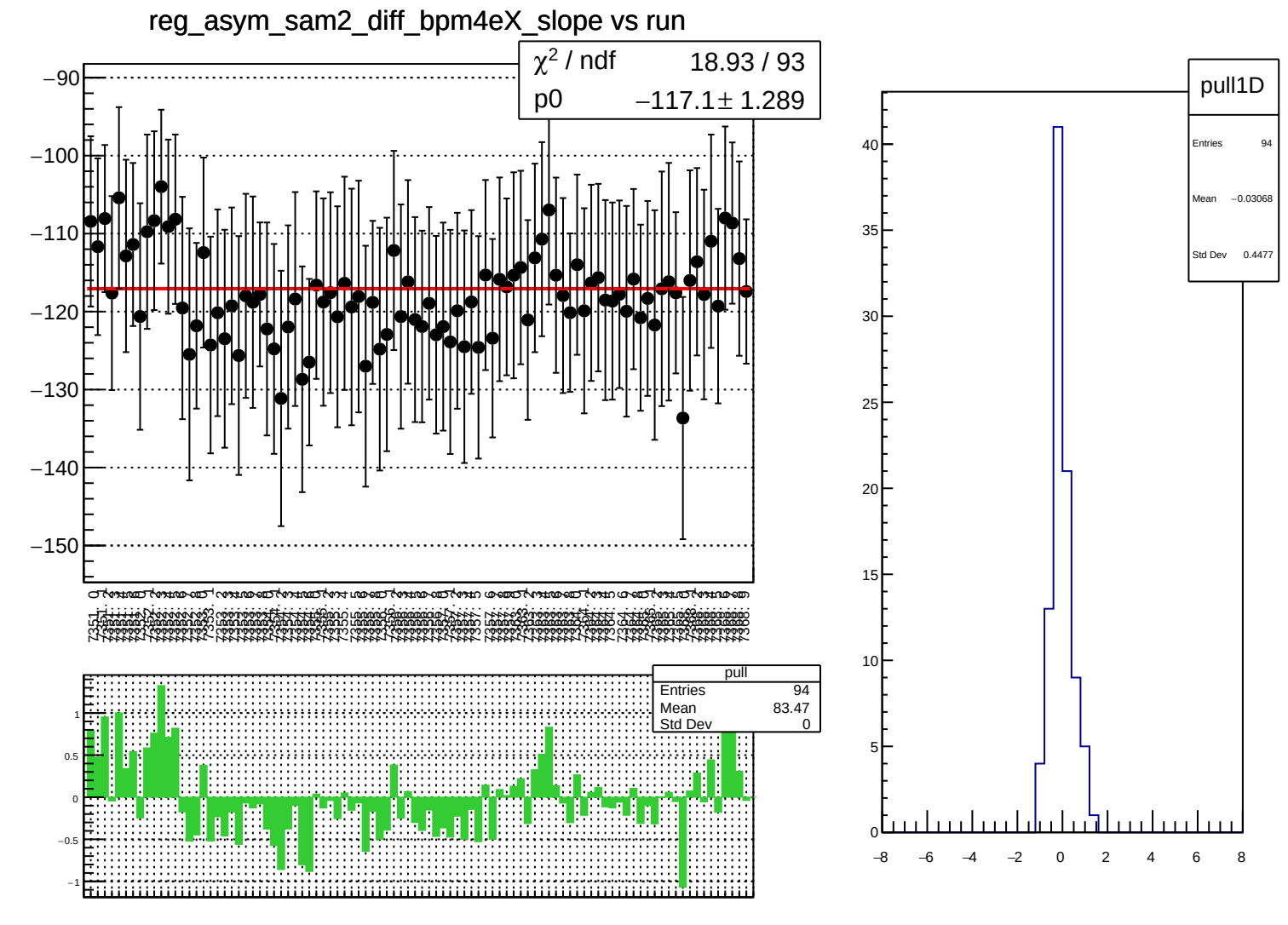

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 65.9 / 93
p0 8.372 ± 0.2522
pull
Entries 94
Mean −58.79
Std Dev 0
pull1D
Entries 94
Mean −0.02969
Std Dev 0.8367

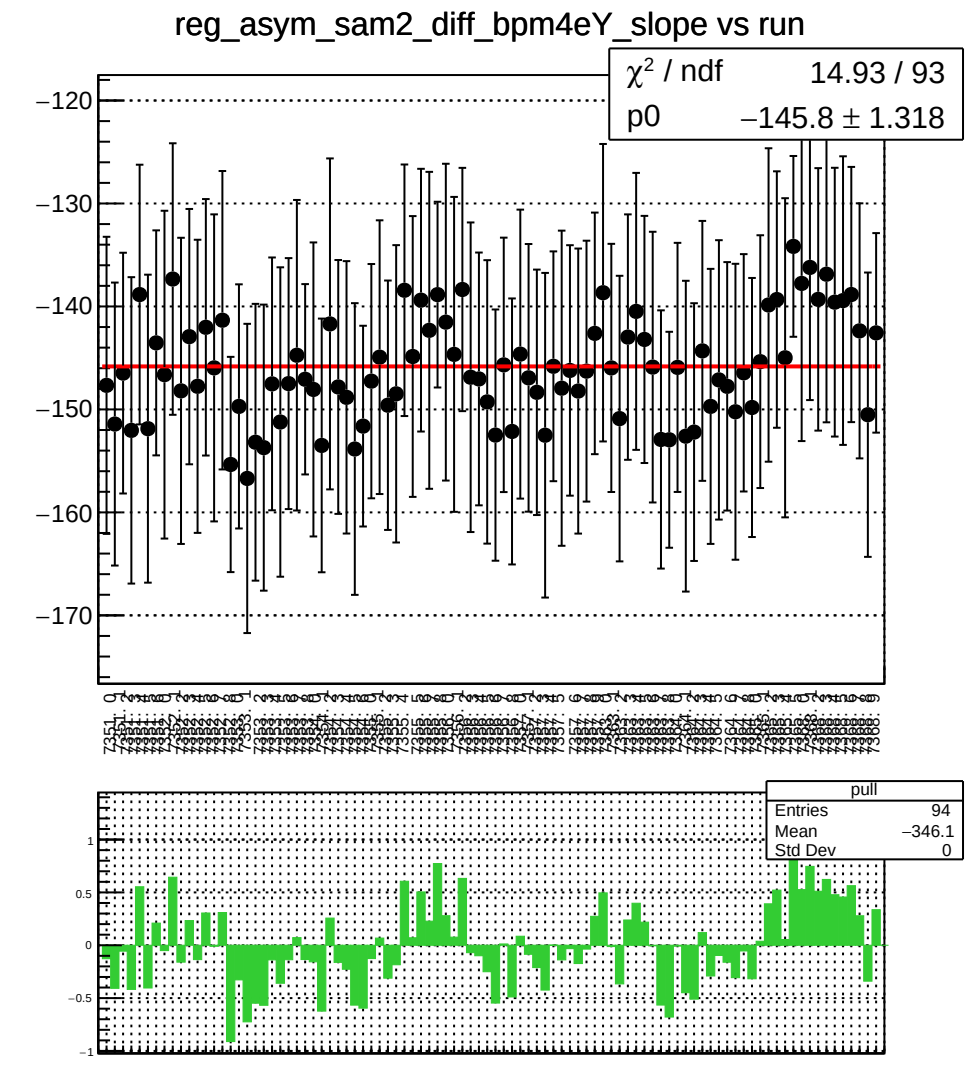

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 50.23 / 93
p0 0.5319 ± 0.01161
pull
Entries 94
Mean 3817
Std Dev 0
pull1D
Entries 94
Mean −0.0002339
Std Dev 0.731

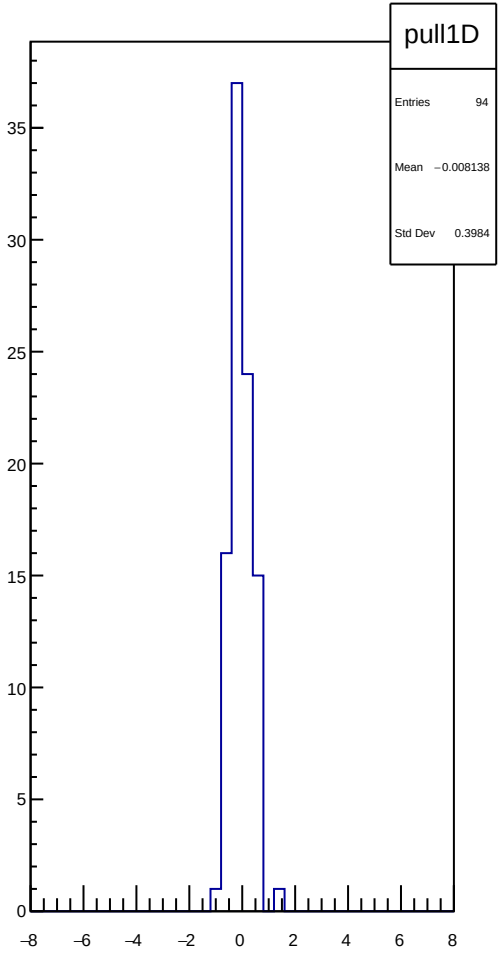

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 24.66 / 93
p0 −53.13 ± 1.298
pull
Entries 94
Mean 147.6
Std Dev 0
pull1D
Entries 94
Mean 0.03111
Std Dev 0.5112

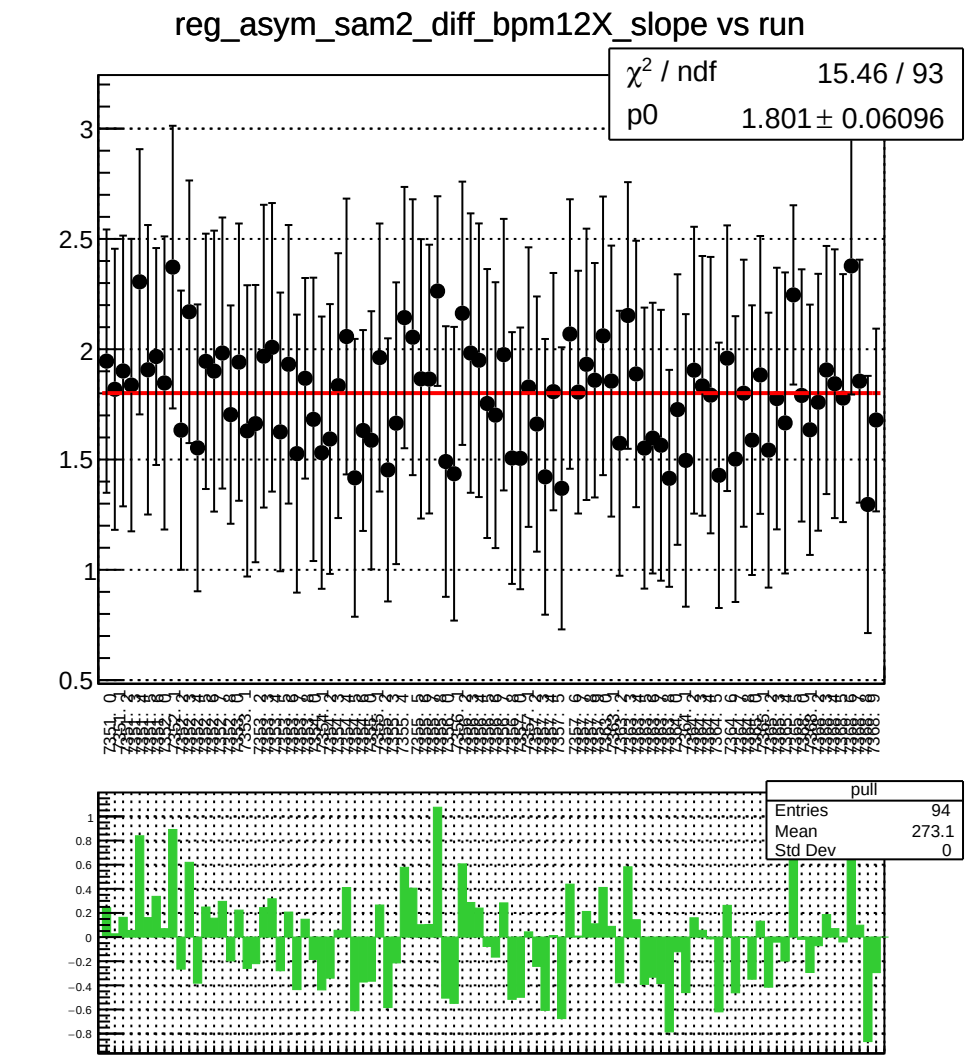

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 10.22 / 93
p0 −21.31 ± 1.244
pull
Entries 94
Mean 633.9
Std Dev 0

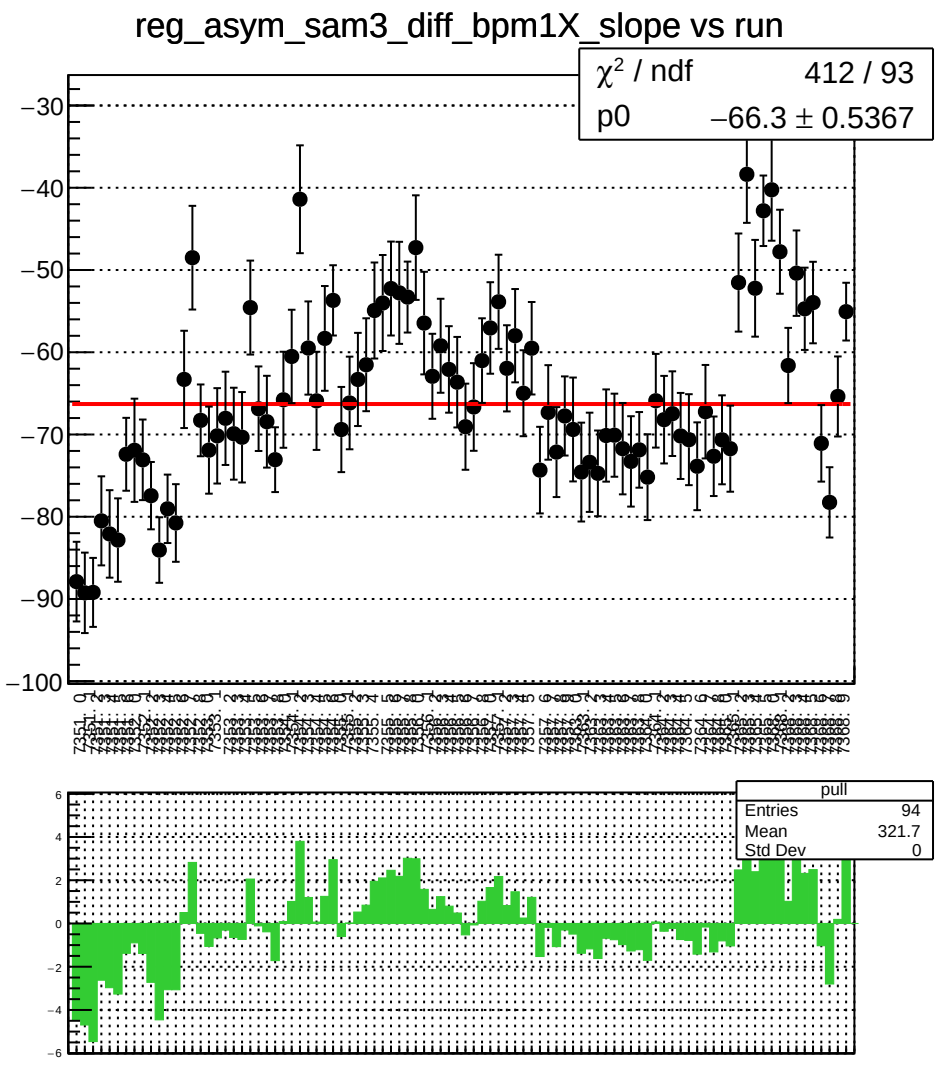

pull1D
Entries 94
Mean −0.005523
Std Dev 0.3298

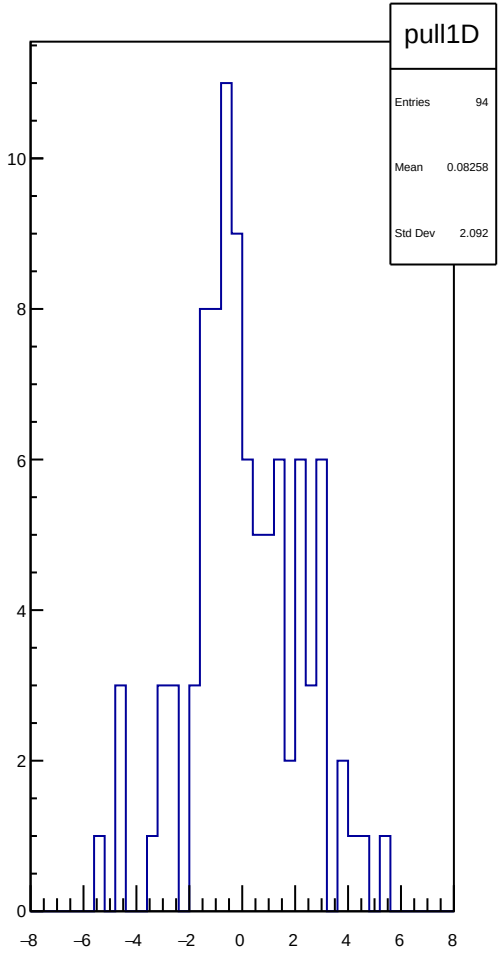

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 18.93 / 93
p0 −117.1± 1.289
−90
−100
−110
−120
−130
−140
−150
pull
Entries 94
Mean 83.47
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 94
Mean −0.03068
Std Dev 0.4477
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

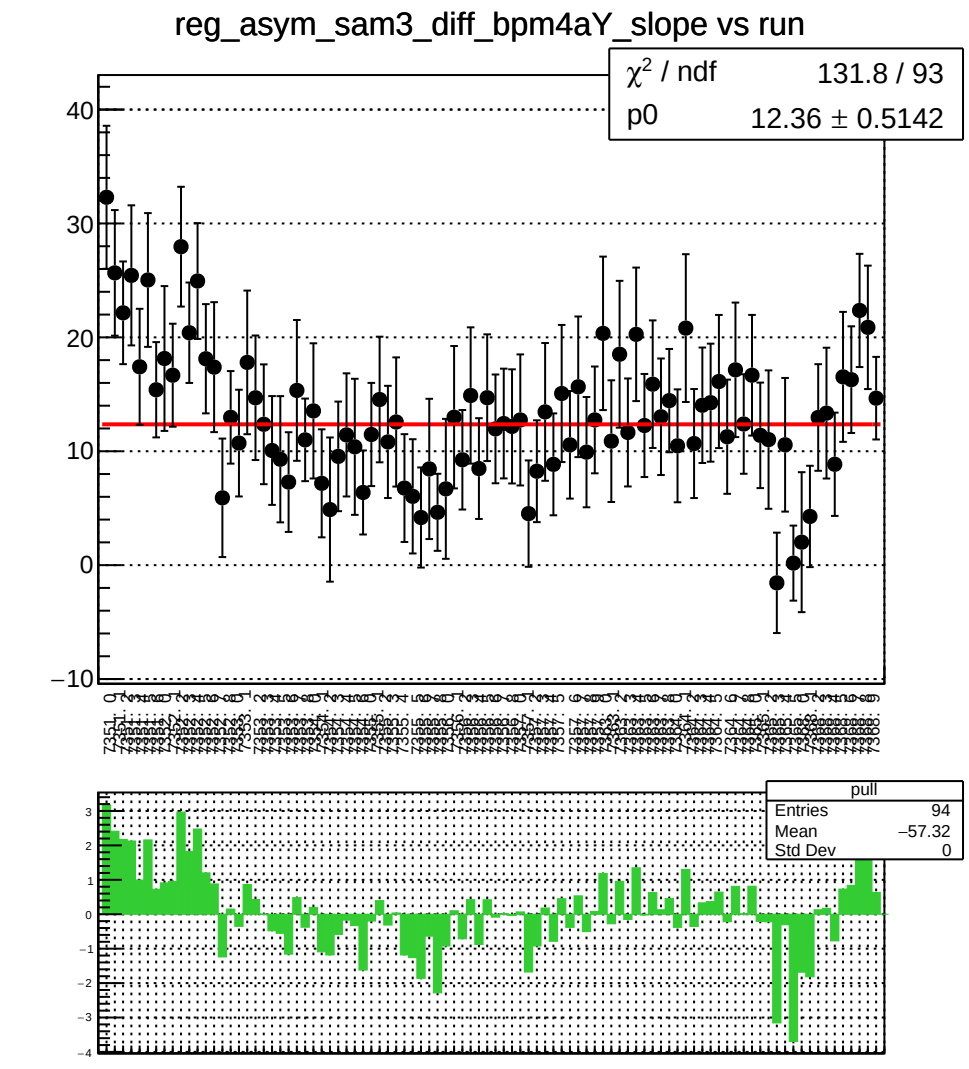

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 14.93 / 93
p0 −145.8 ± 1.318
−120
−130
−140
−150
−160
−170
pull
Entries 94
Mean −346.1
Std Dev 0
1
0.5
0
−0.5
−1

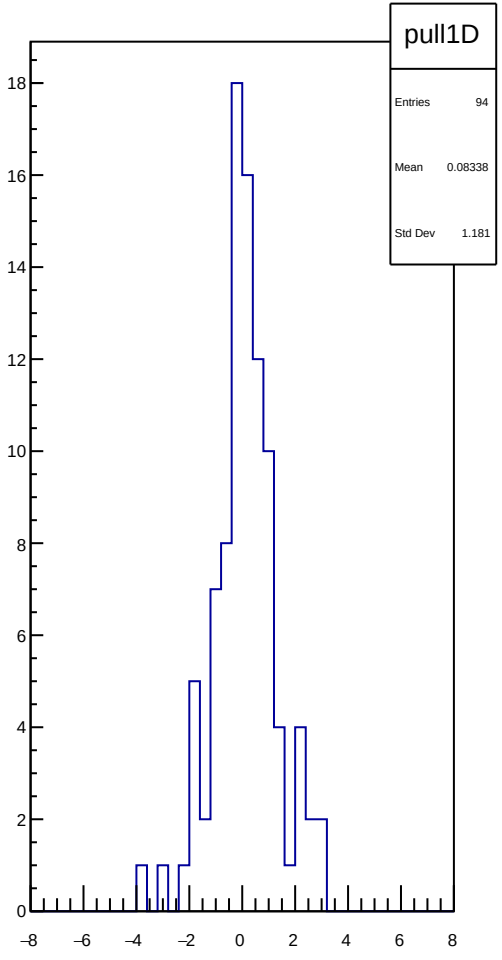

pull1D
Entries 94
Mean −0.008138
Std Dev 0.3984
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

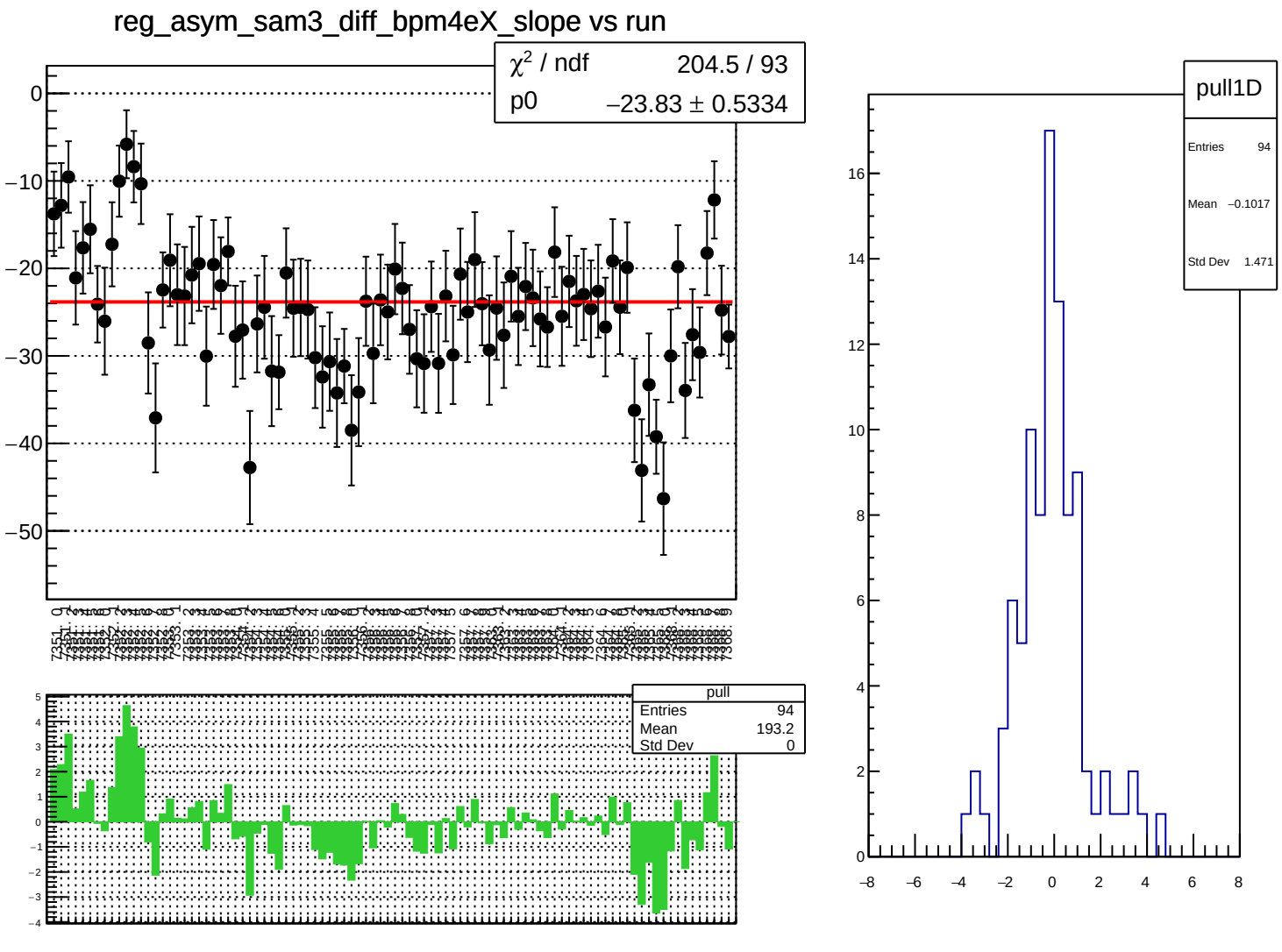

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 15.46 / 93
p0 1.801 ± 0.06096
pull
Entries 94
Mean 273.1
Std Dev 0
pull1D
Entries 94
Mean −0.008092
Std Dev 0.4055

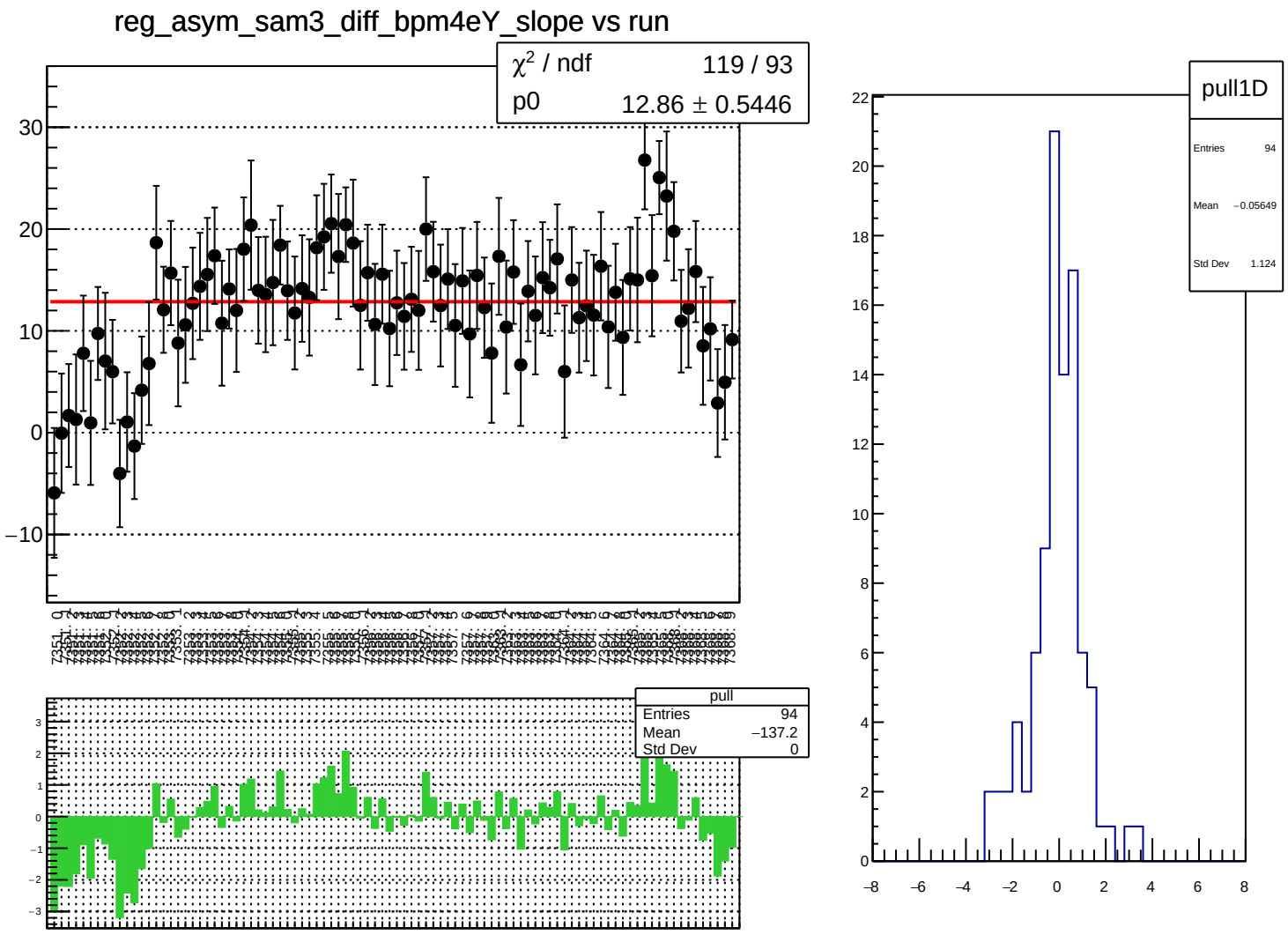

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 412 / 93
p0 −66.3 ± 0.5367
pull
Entries 94
Mean 321.7
Std Dev 0

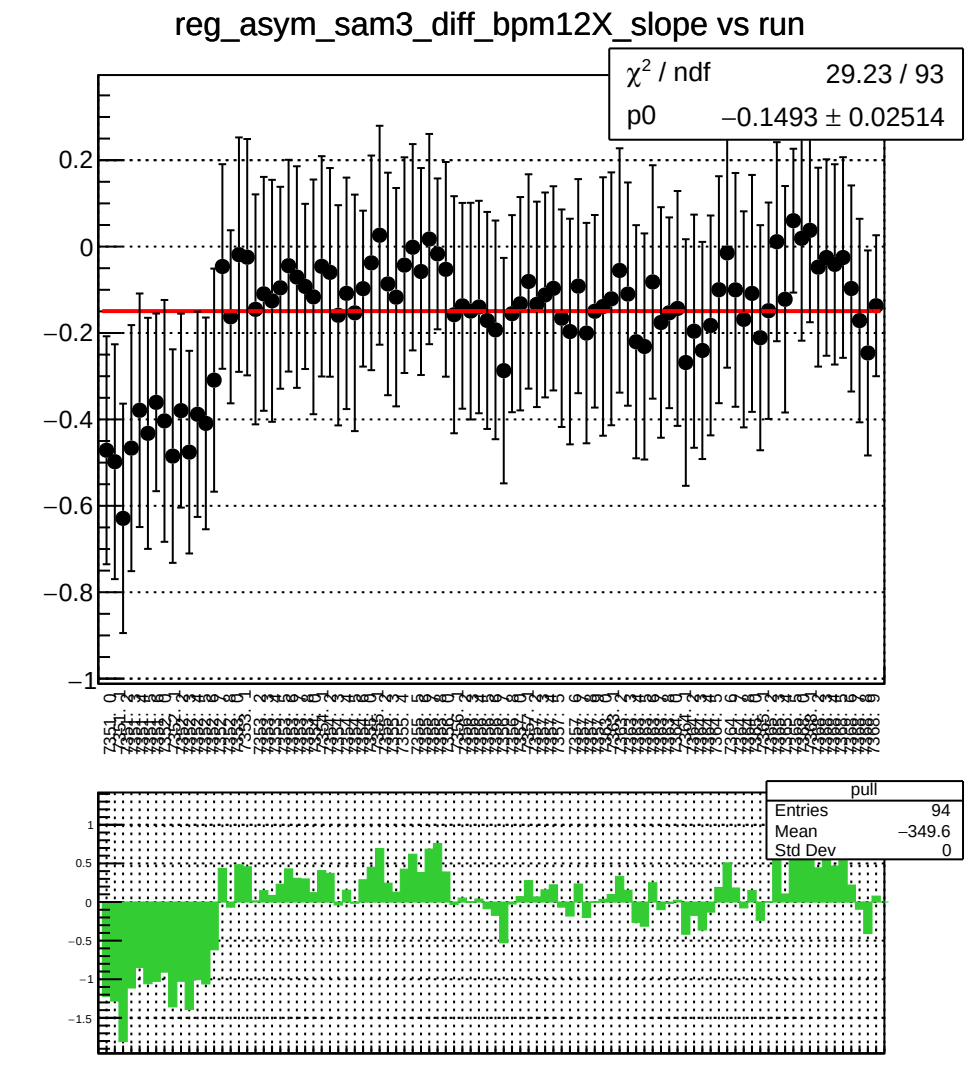

pull1D
Entries 94
Mean 0.08258
Std Dev 2.092

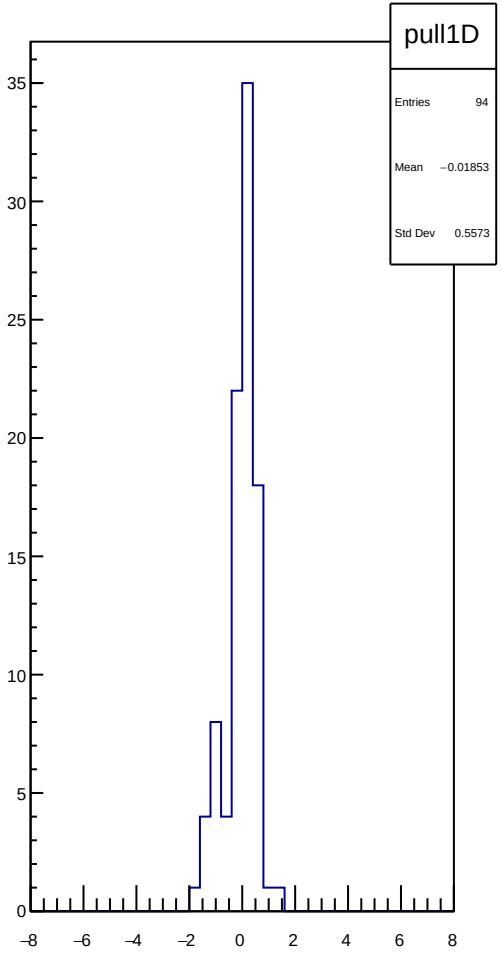

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 131.8 / 93
p0 12.36 ± 0.5142
pull
Entries 94
Mean −57.32
Std Dev 0

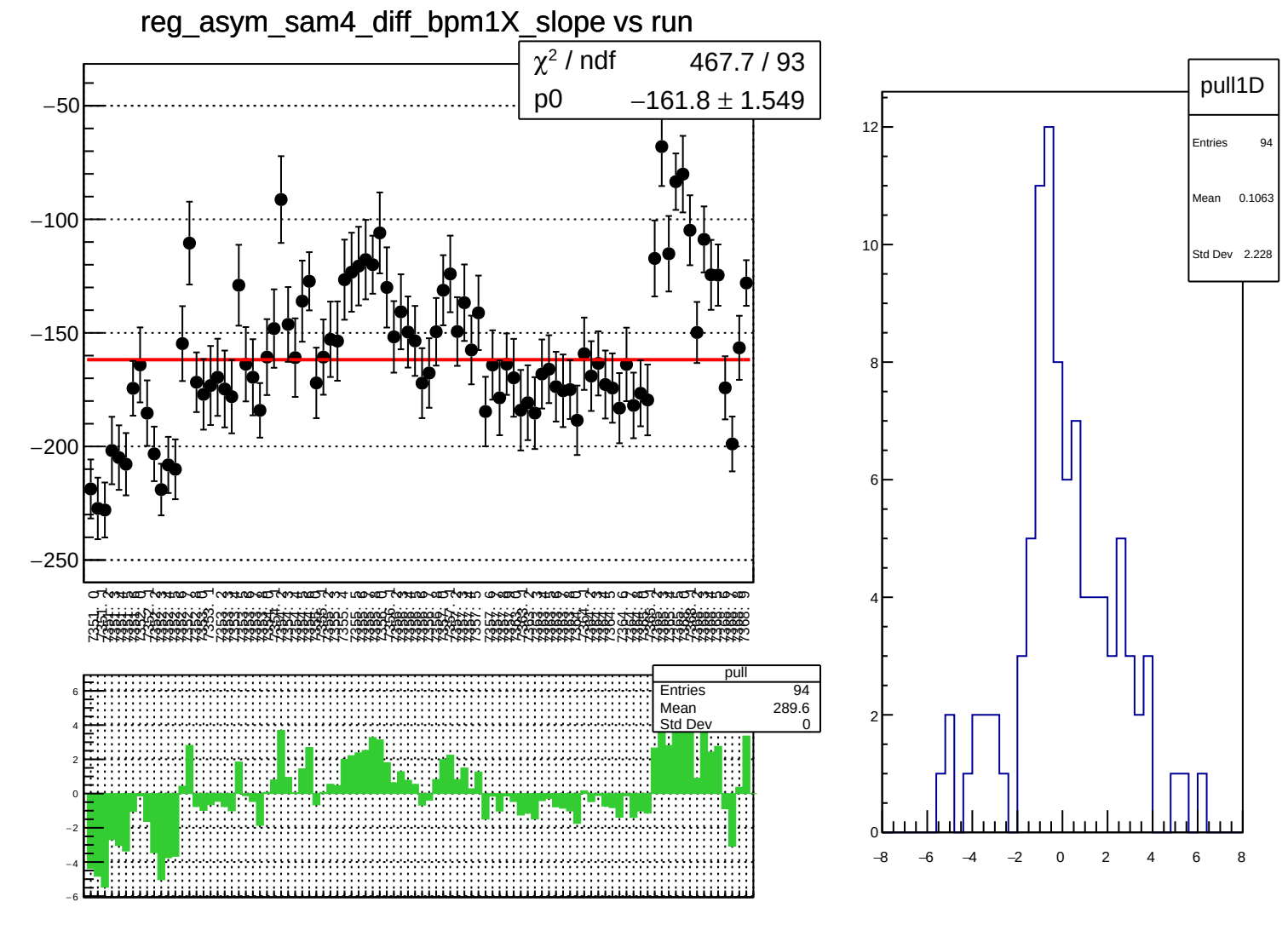

pull1D
Entries 94
Mean 0.08338
Std Dev 1.181

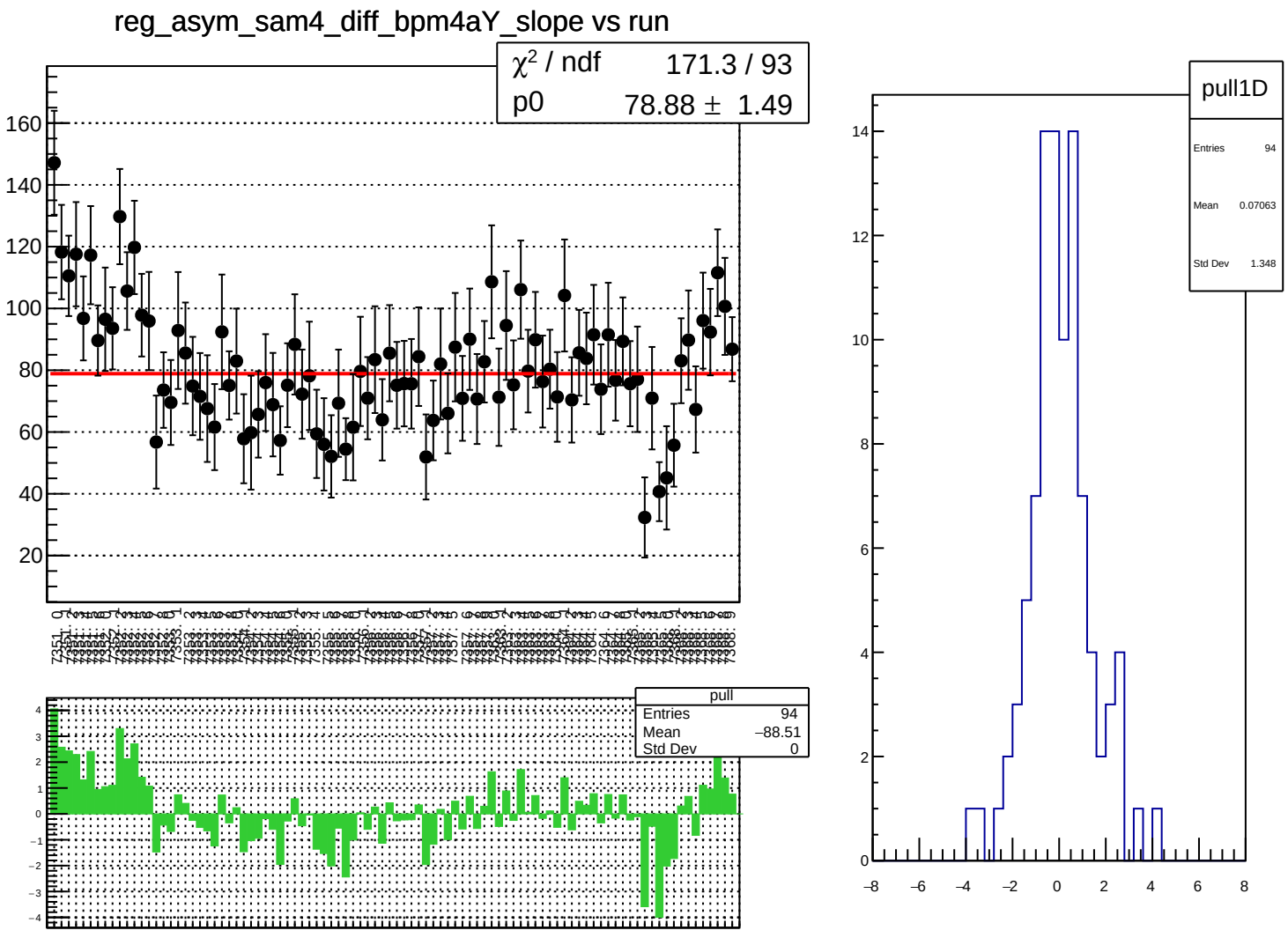

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 204.5 / 93
p0 −23.83 ± 0.5334
pull
Entries 94
Mean 193.2
Std Dev 0
pull1D
Entries 94
Mean −0.1017
Std Dev 1.471

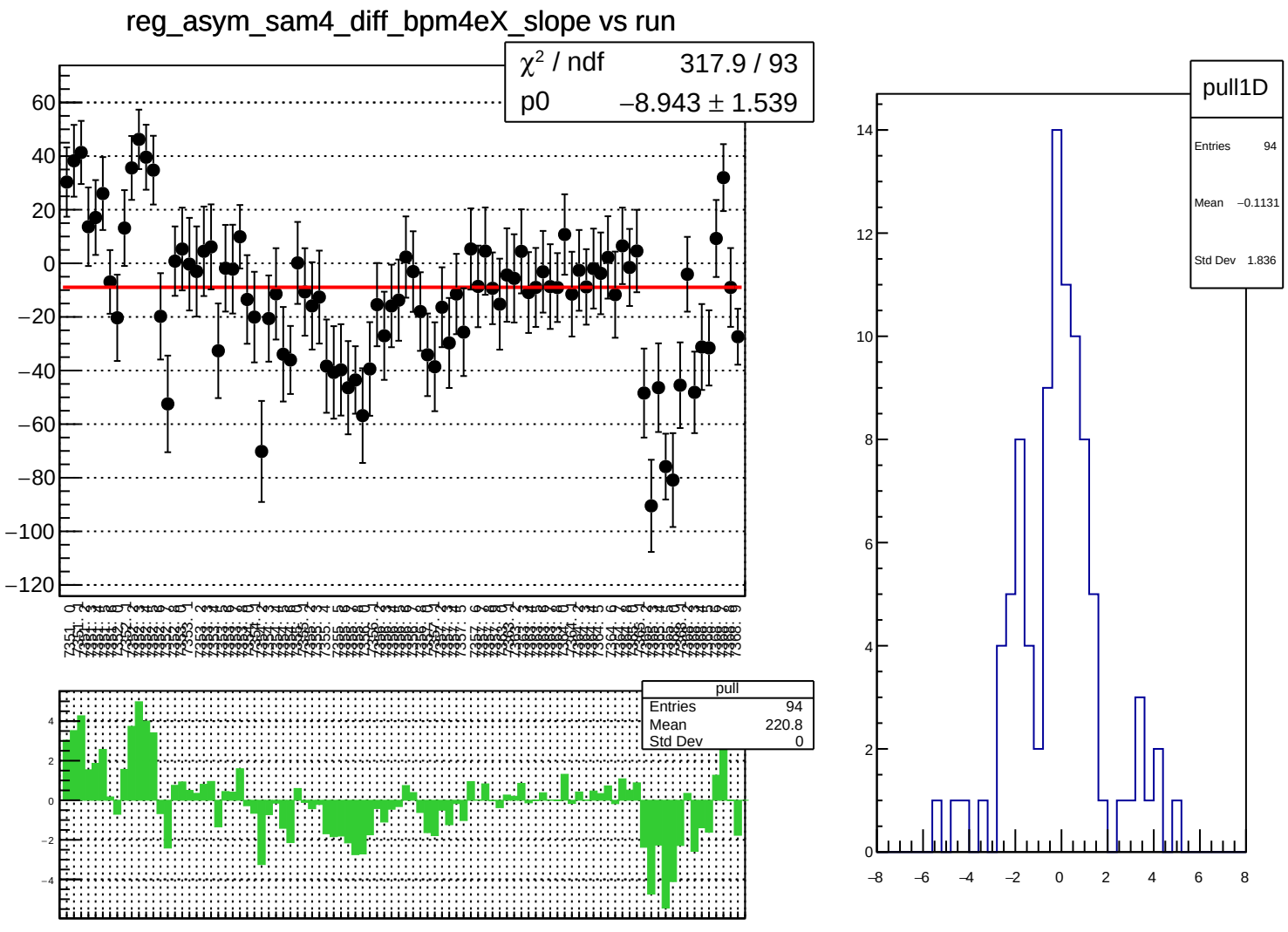

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 119 / 93
p0 12.86 ± 0.5446
pull
Entries 94
Mean −137.2
Std Dev 0
pull1D
Entries 94
Mean −0.05649
Std Dev 1.124

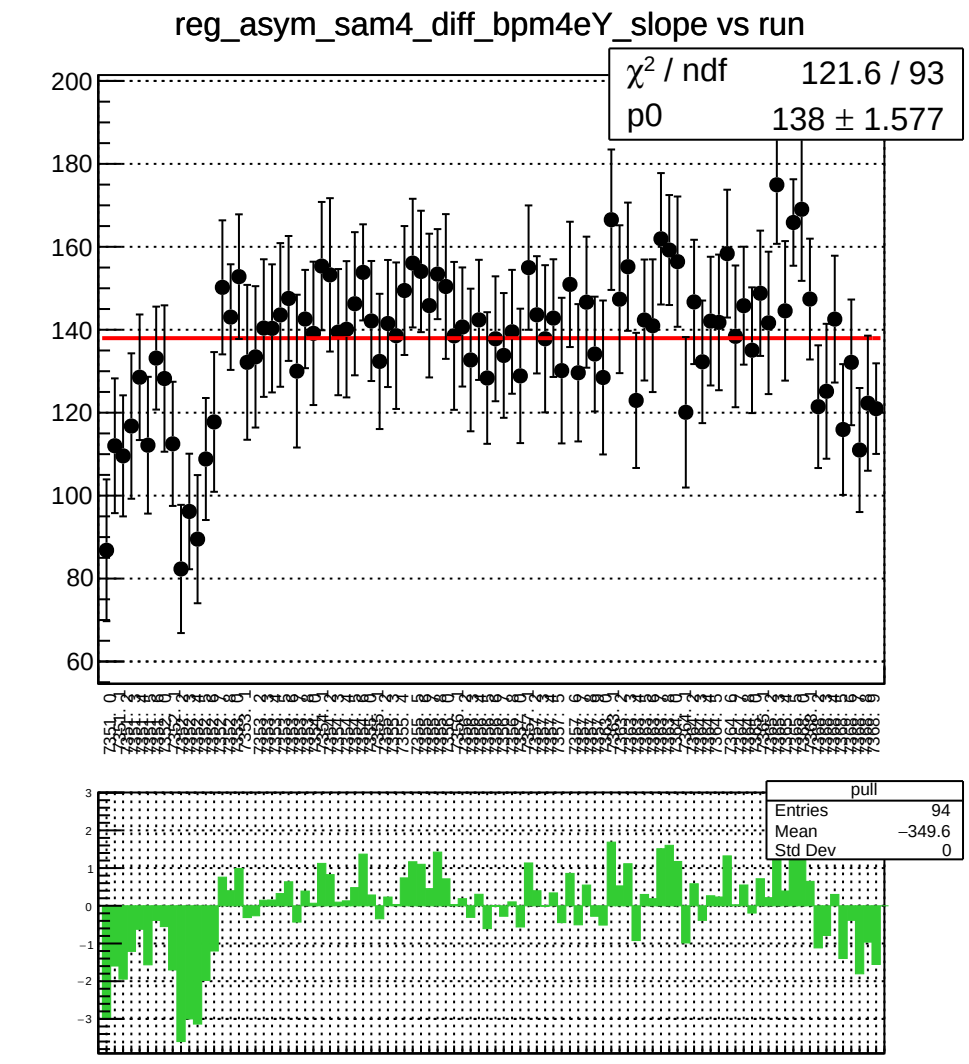

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 29.23 / 93
p0 −0.1493 ± 0.02514
pull
Entries 94
Mean −349.6
Std Dev 0

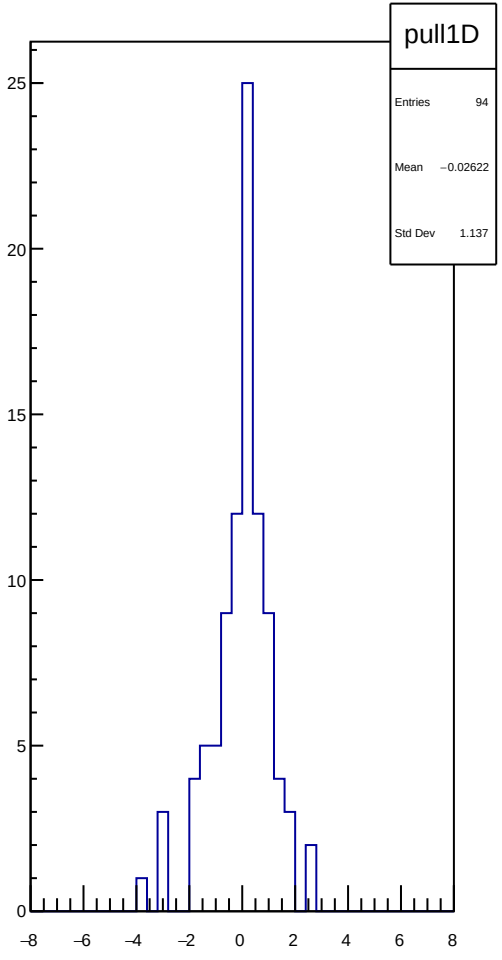

pull1D
Entries 94
Mean −0.01853
Std Dev 0.5573

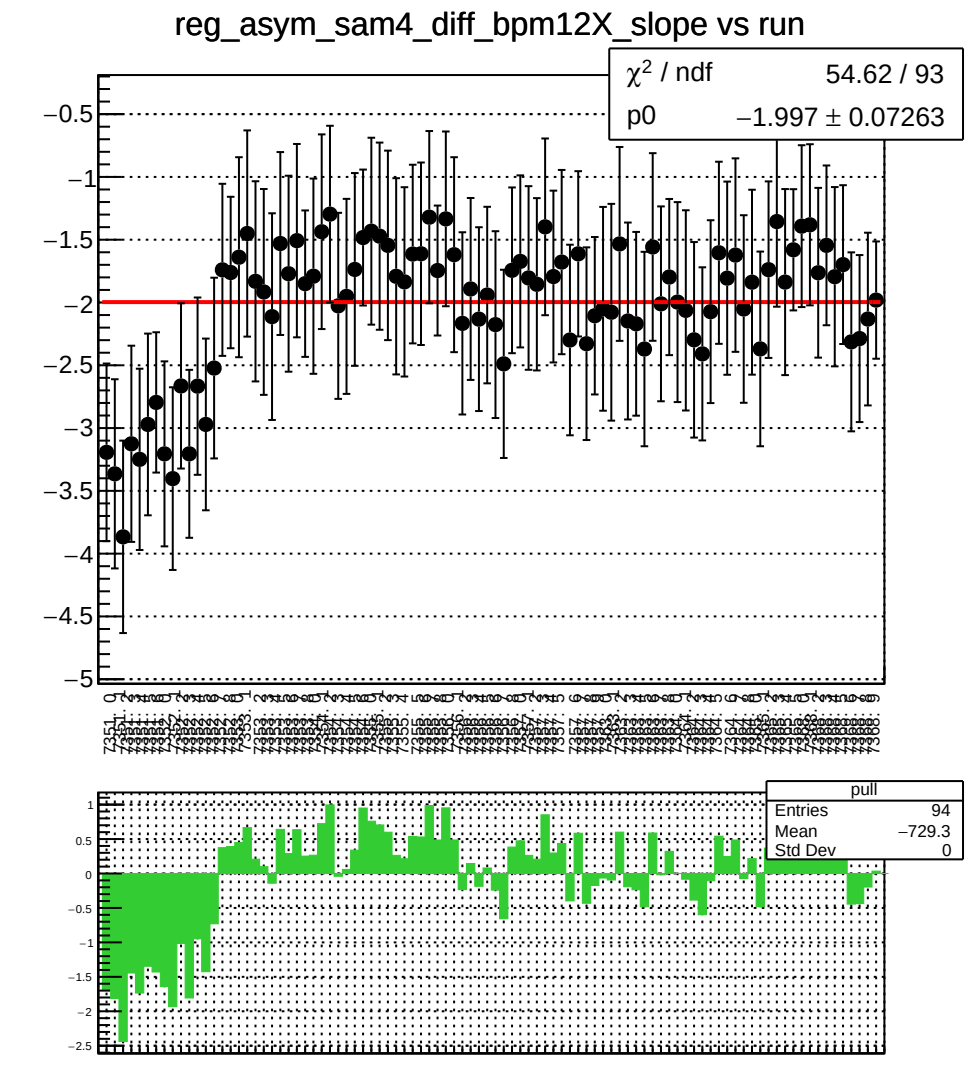

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 467.7 / 93
p0 −161.8 ± 1.549
−50
−100
−150
−200
−250
pull
Entries 94
Mean 289.6
Std Dev 0
6
4
2
0
−2
−4
−6
pull1D
Entries 94
Mean 0.1063
Std Dev 2.228
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

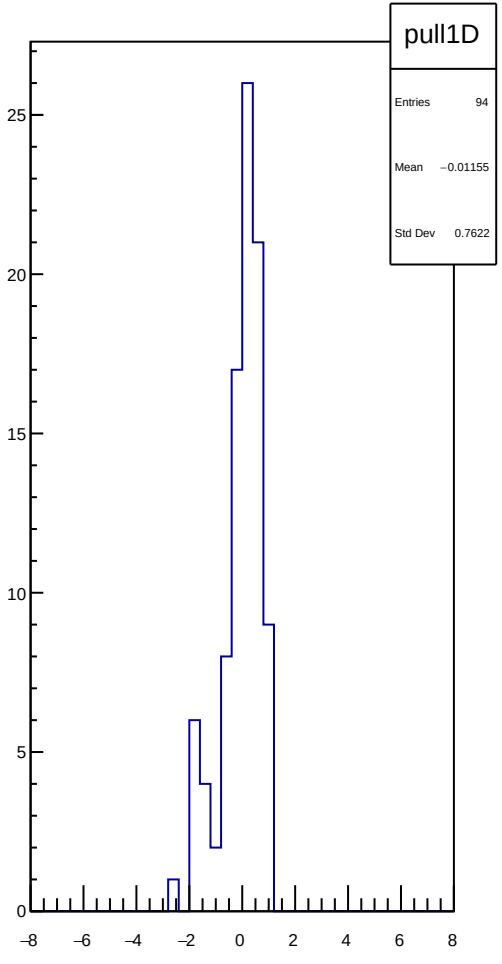

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 171.3 / 93
p0 78.88 ± 1.49
pull
Entries 94
Mean −88.51
Std Dev 0
pull1D
Entries 94
Mean 0.07063
Std Dev 1.348

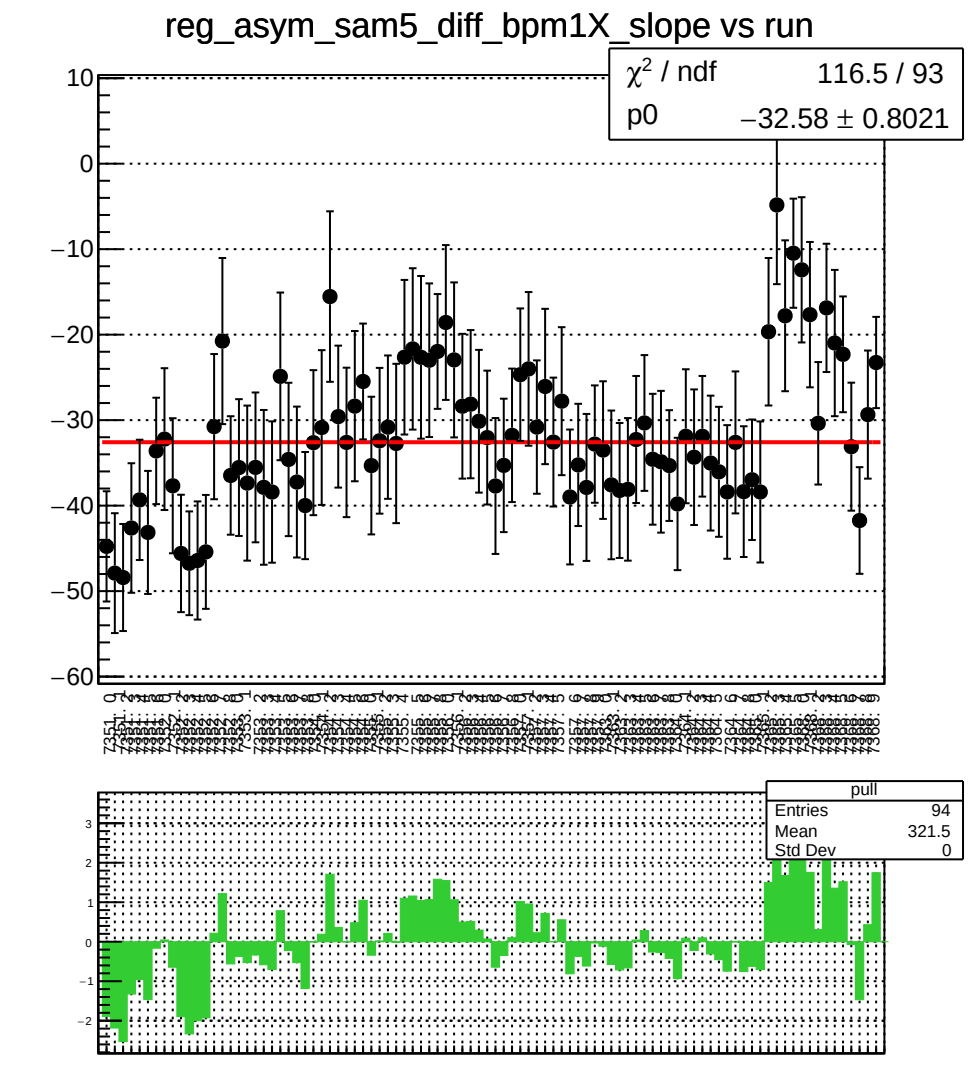

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 317.9 / 93
p0 −8.943 ± 1.539
pull
Entries 94
Mean 220.8
Std Dev 0
pull1D
Entries 94
Mean −0.1131
Std Dev 1.836

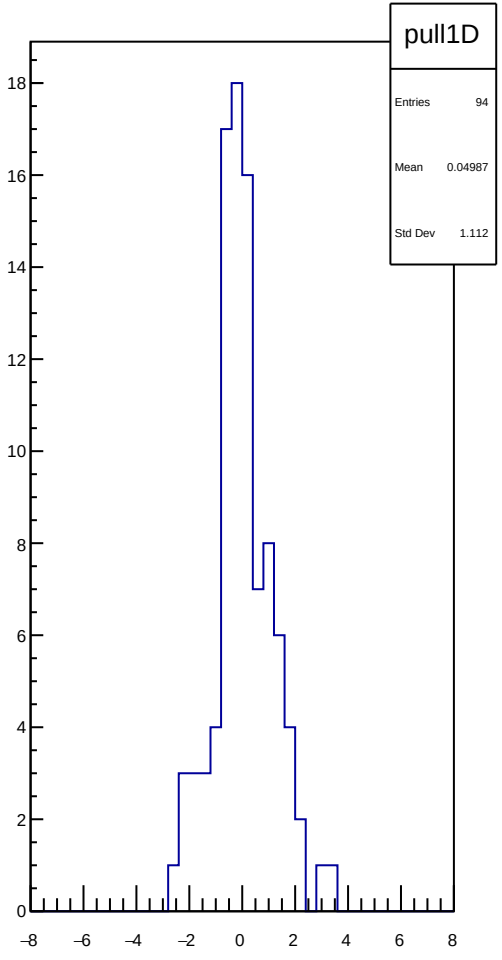

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 121.6 / 93
p0 138 ± 1.577
pull
Entries 94
Mean −349.6
Std Dev 0

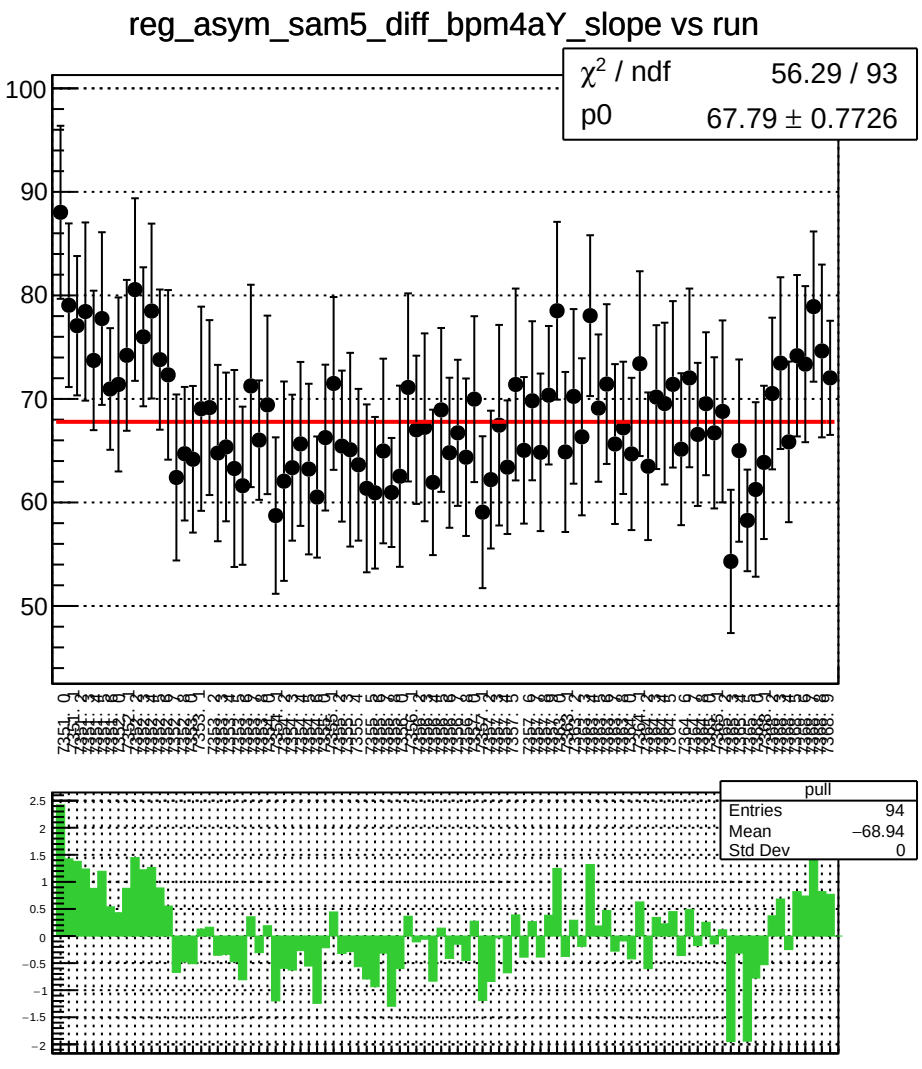

pull1D
Entries 94
Mean −0.02622
Std Dev 1.137

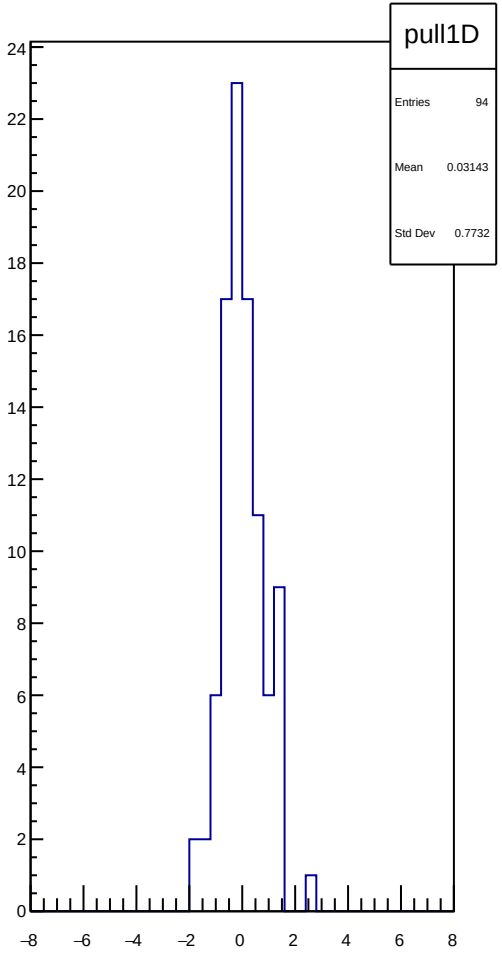

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 54.62 / 93
p0 −1.997 ± 0.07263
pull
Entries 94
Mean −729.3
Std Dev 0

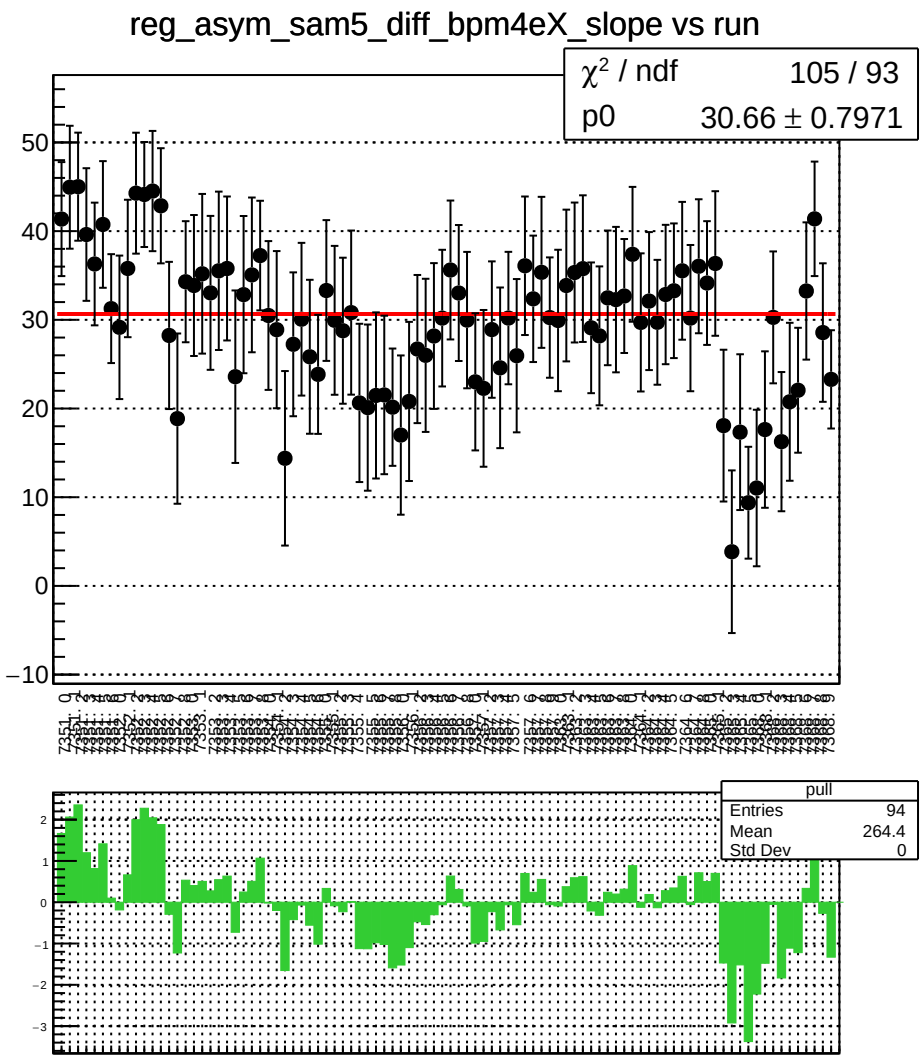

pull1D
Entries 94
Mean −0.01155
Std Dev 0.7622

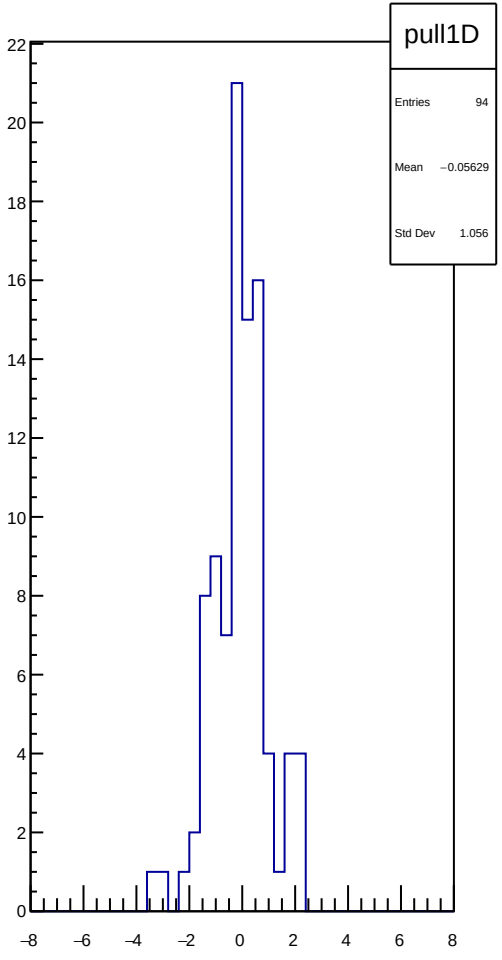

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 116.5 / 93
p0 −32.58 ± 0.8021
pull
Entries 94
Mean 321.5
Std Dev 0

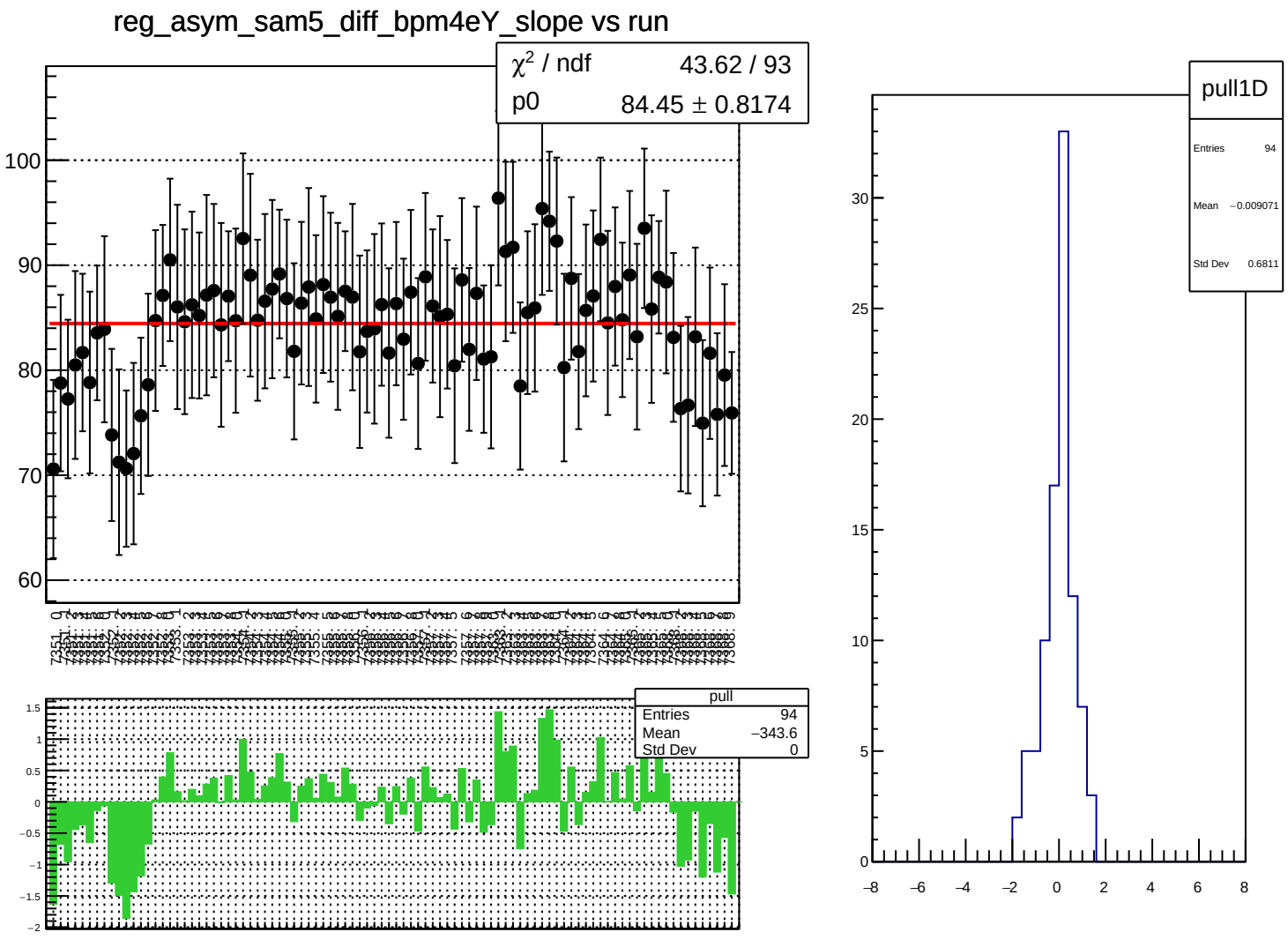

pull1D
Entries 94
Mean 0.04987
Std Dev 1.112

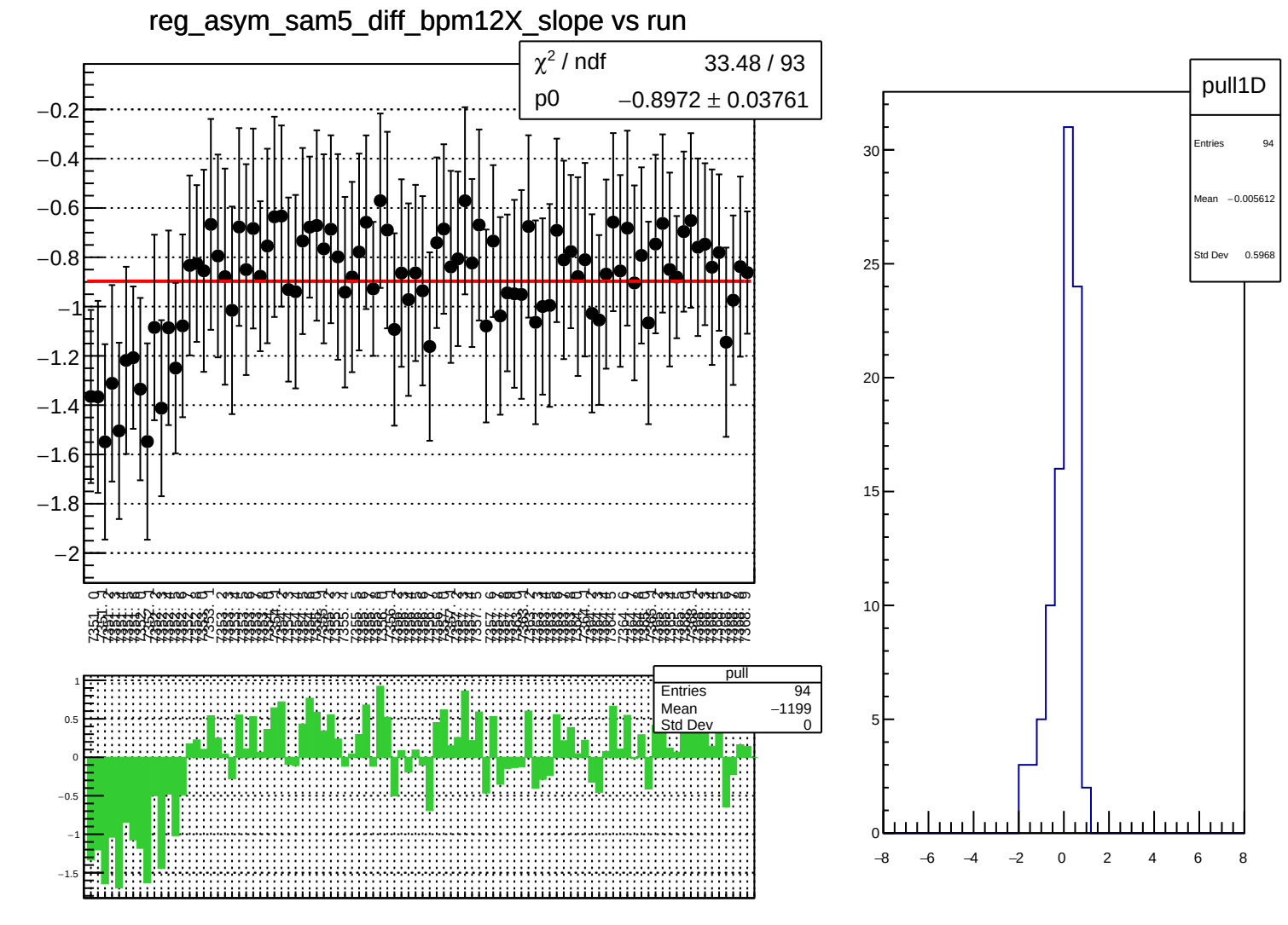

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 56.29 / 93
p0 67.79 ± 0.7726
pull
Entries 94
Mean −68.94
Std Dev 0

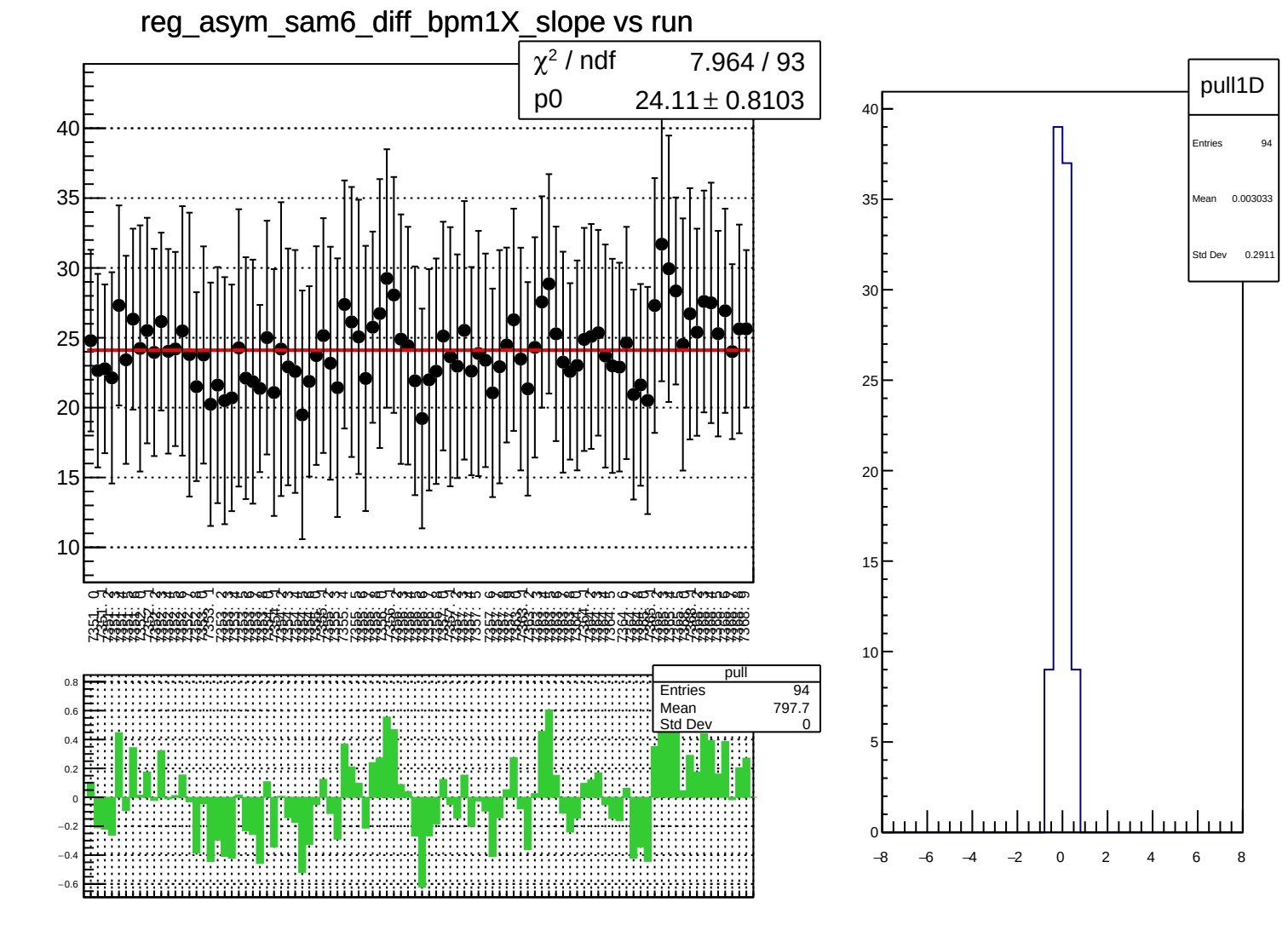

pull1D
Entries 94
Mean 0.03143
Std Dev 0.7732

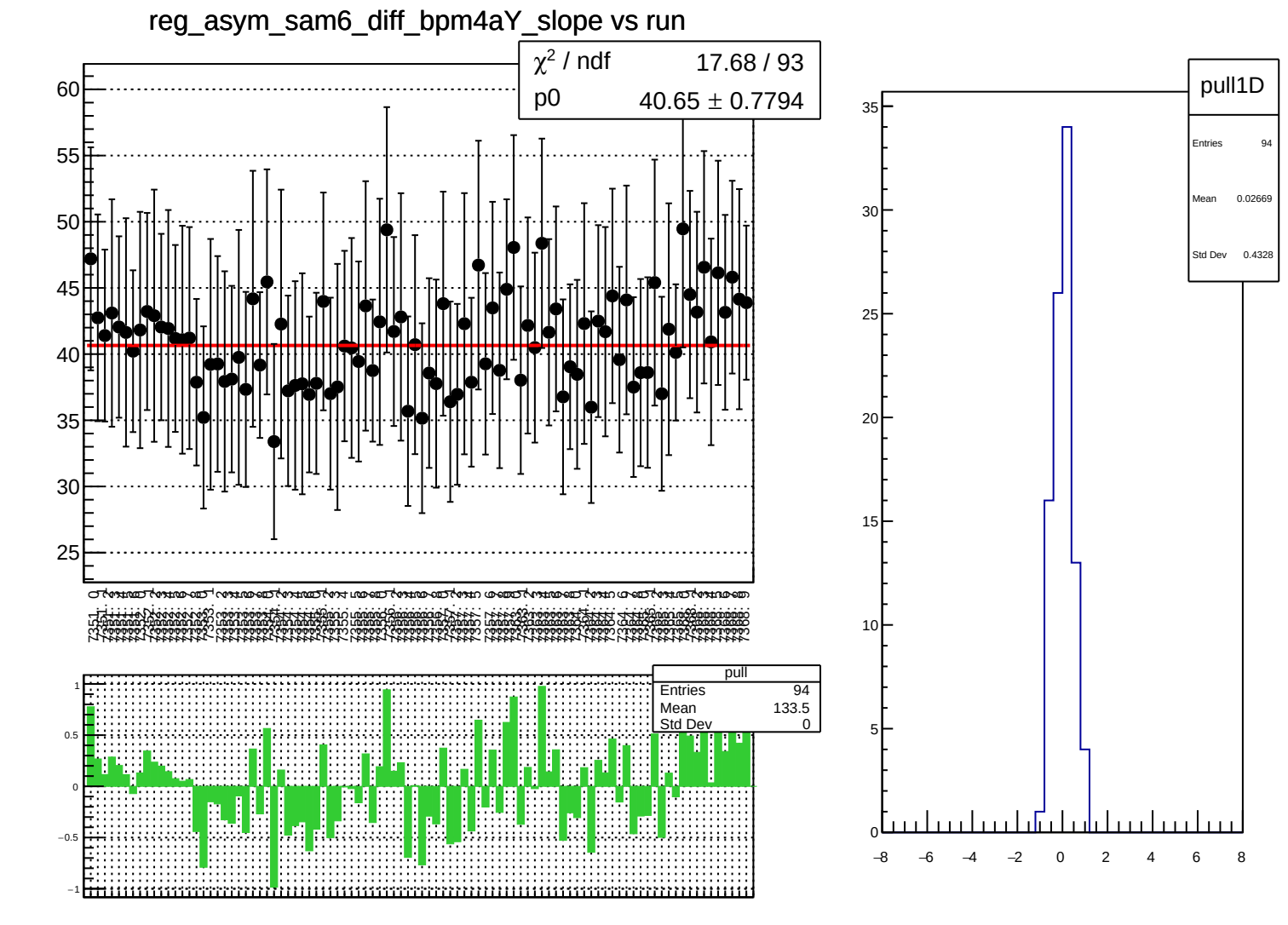

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 105 / 93
p0 30.66 ± 0.7971
pull
Entries 94
Mean 264.4
Std Dev 0

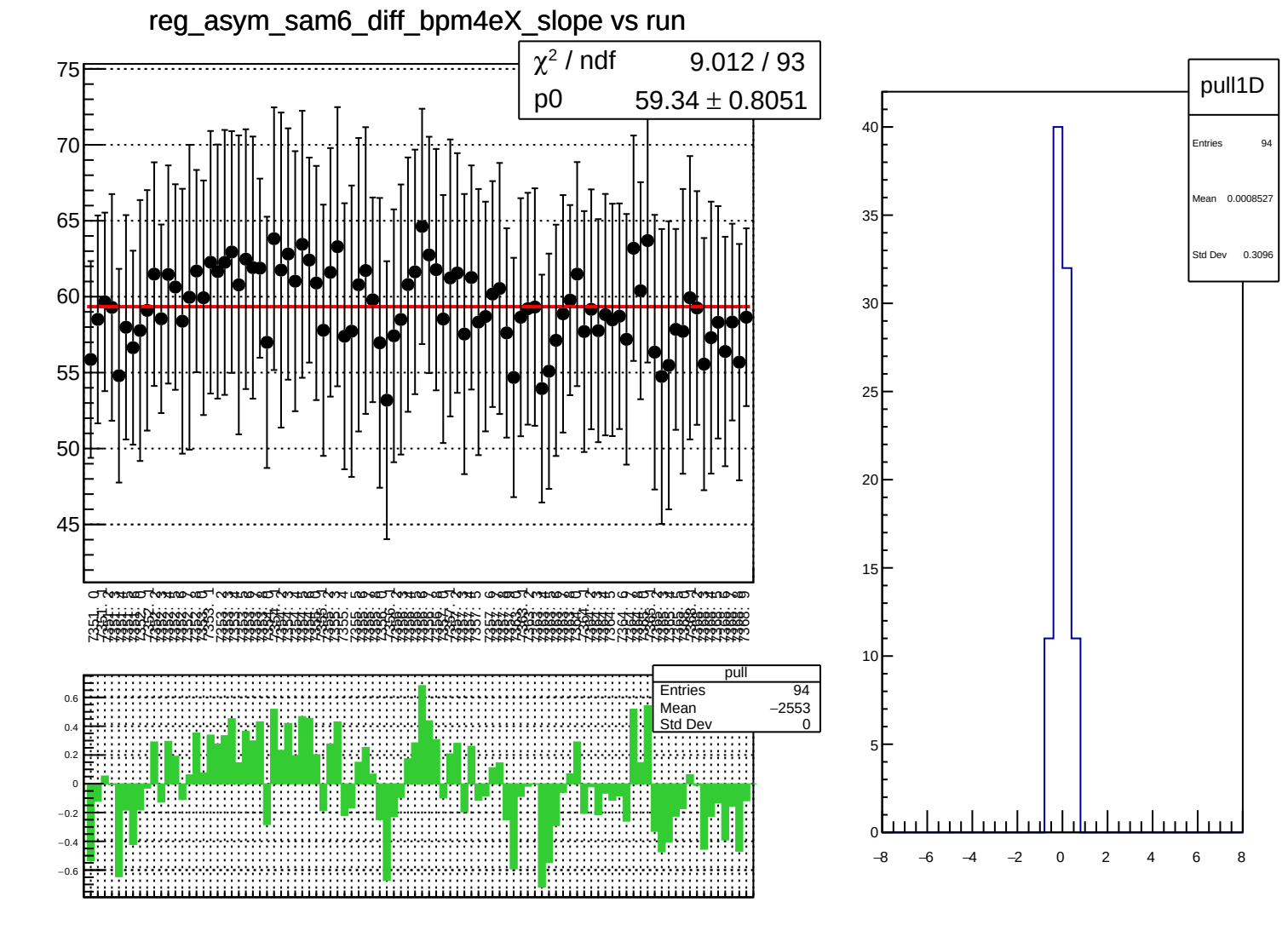

pull1D
Entries 94
Mean −0.05629
Std Dev 1.056

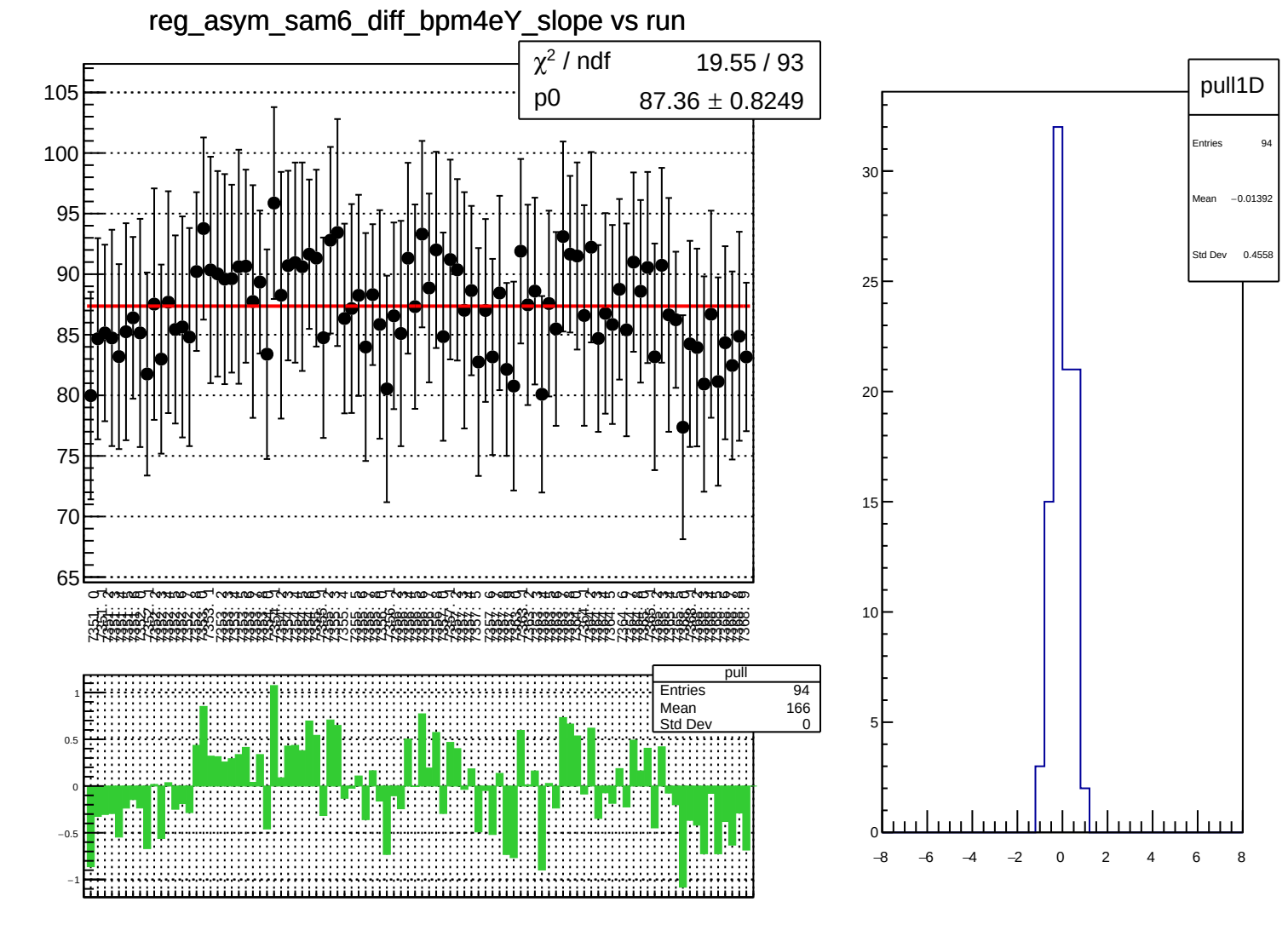

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 43.62 / 93
p0 84.45 ± 0.8174
100
90
80
70
60
pull
Entries 94
Mean −343.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean −0.009071
Std Dev 0.6811
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

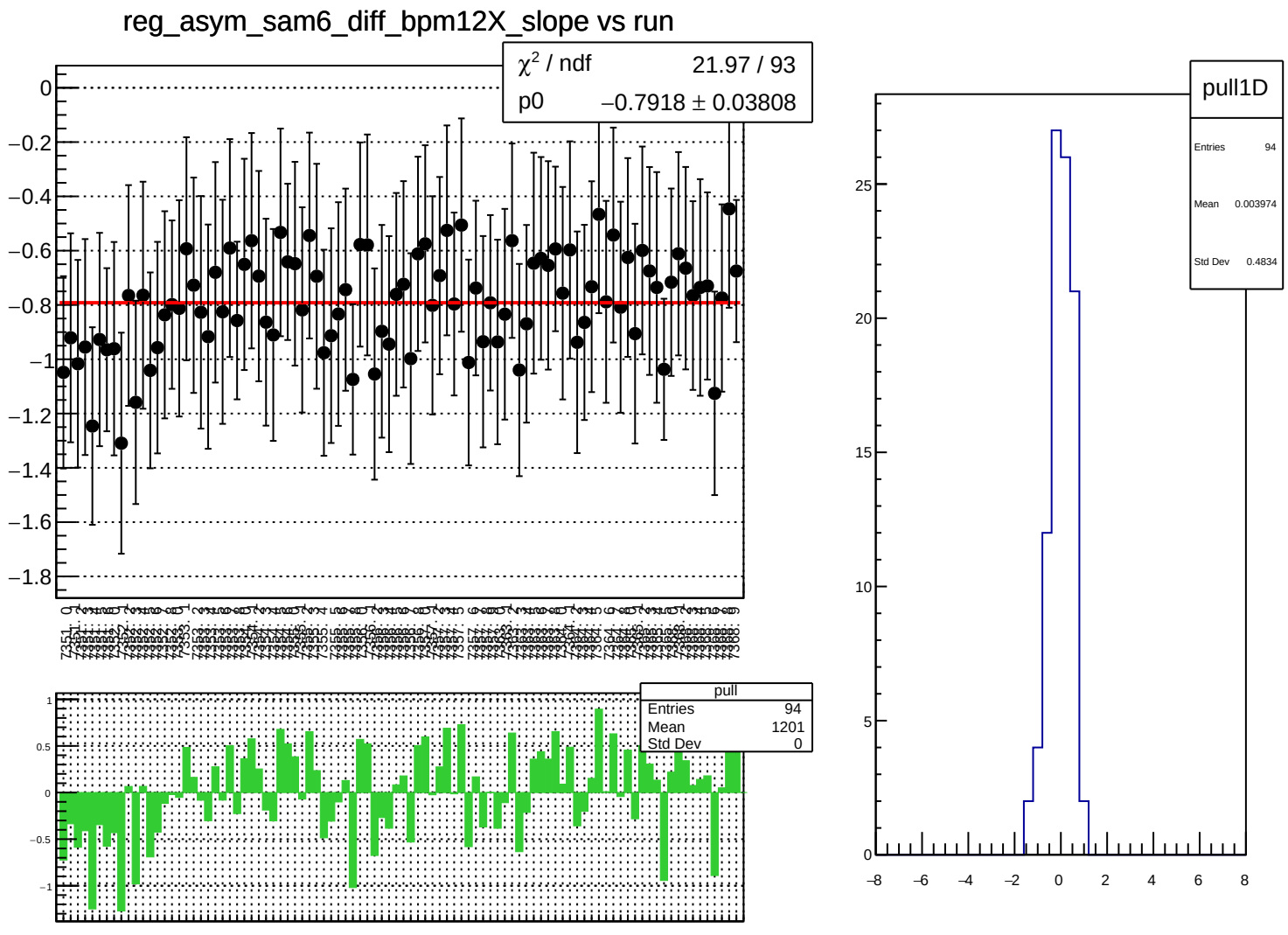

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 33.48 / 93
p0 −0.8972 ± 0.03761
pull
Entries 94
Mean −1199
Std Dev 0
pull1D
Entries 94
Mean −0.005612
Std Dev 0.5968

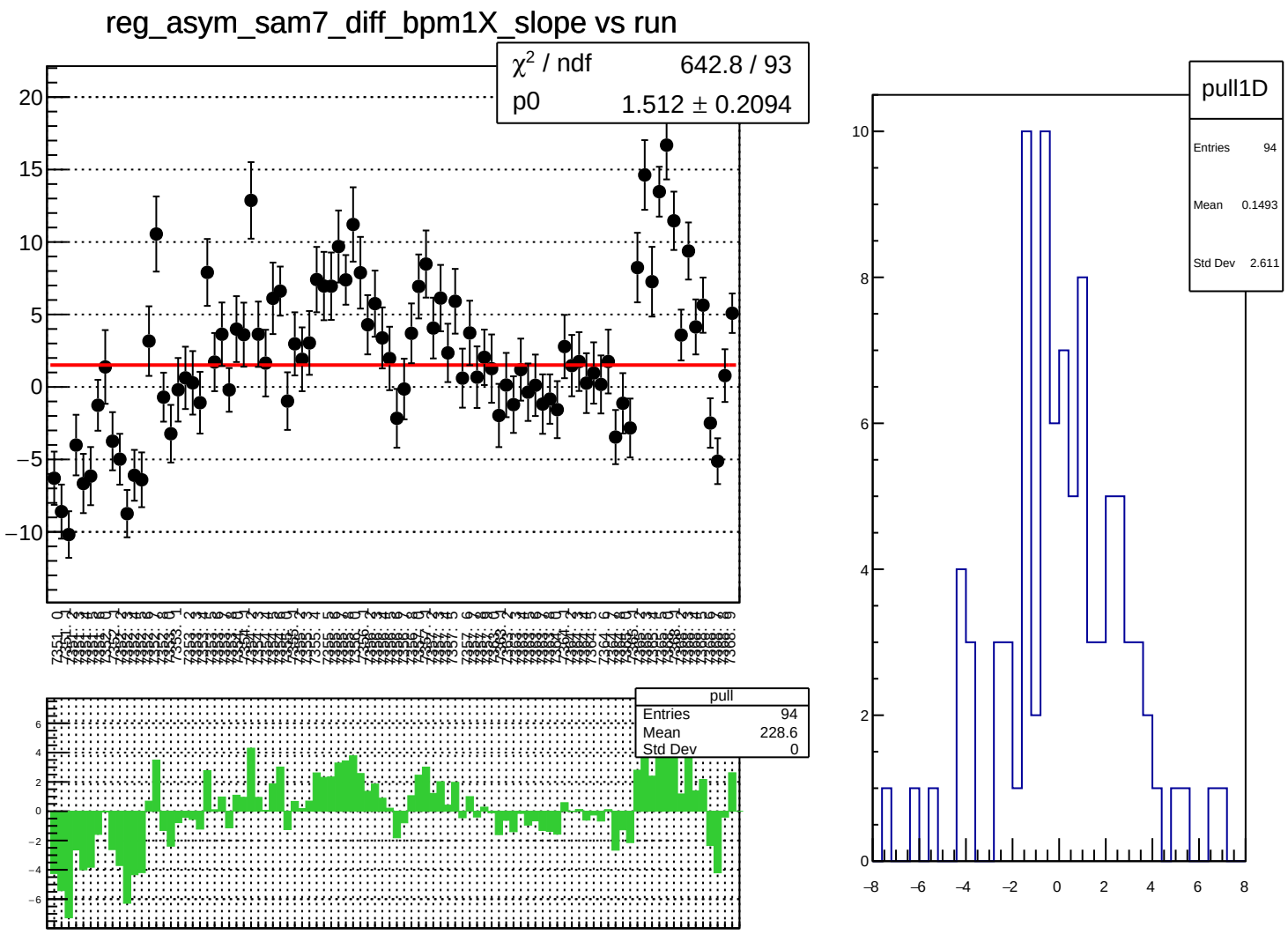

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 7.964 / 93
p0 24.11 ± 0.8103
pull
Entries 94
Mean 797.7
Std Dev 0
pull1D
Entries 94
Mean 0.003033
Std Dev 0.2911

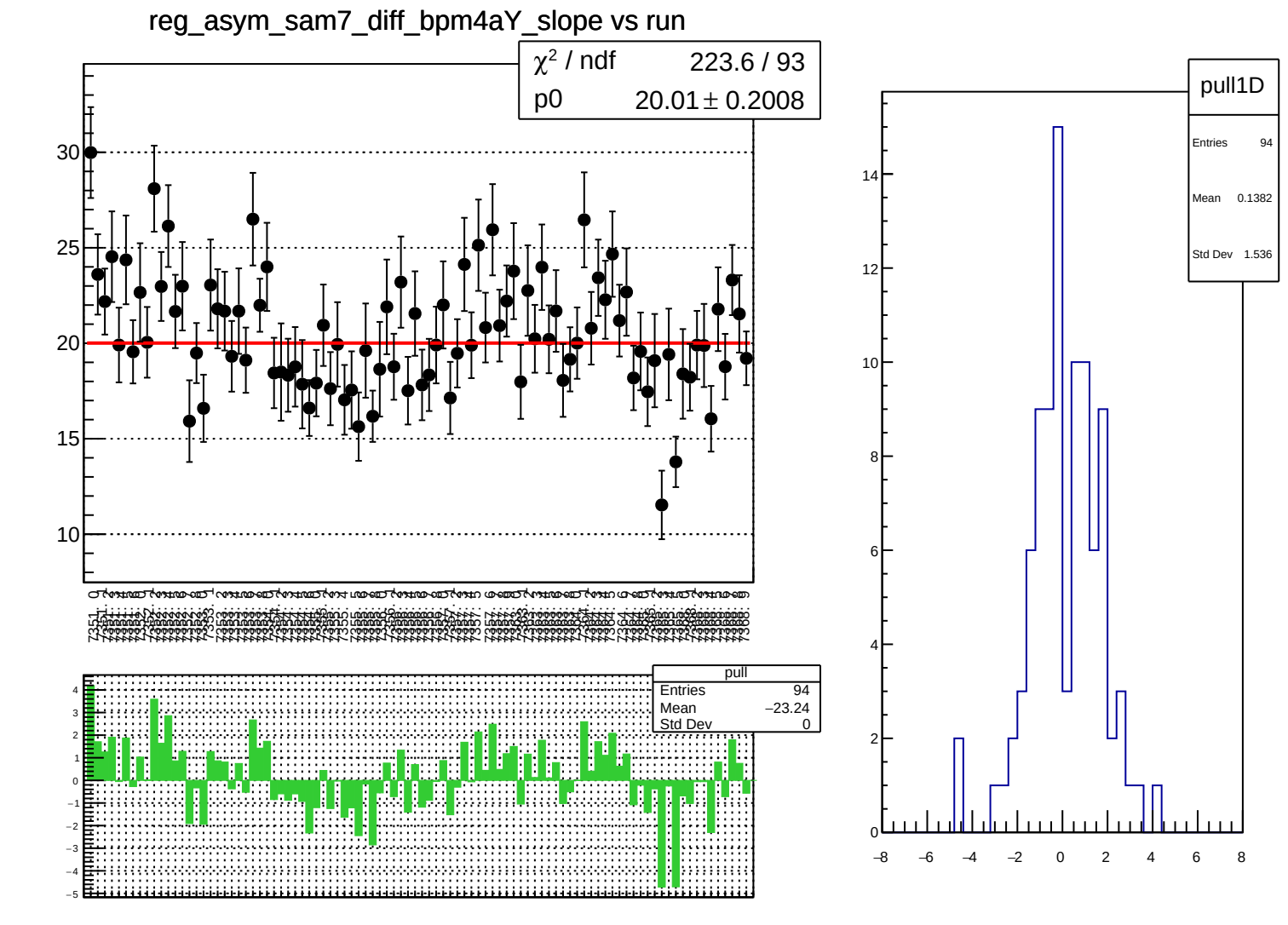

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 17.68 / 93
p0 40.65 ± 0.7794
pull
Entries 94
Mean 133.5
Std Dev 0
pull1D
Entries 94
Mean 0.02669
Std Dev 0.4328

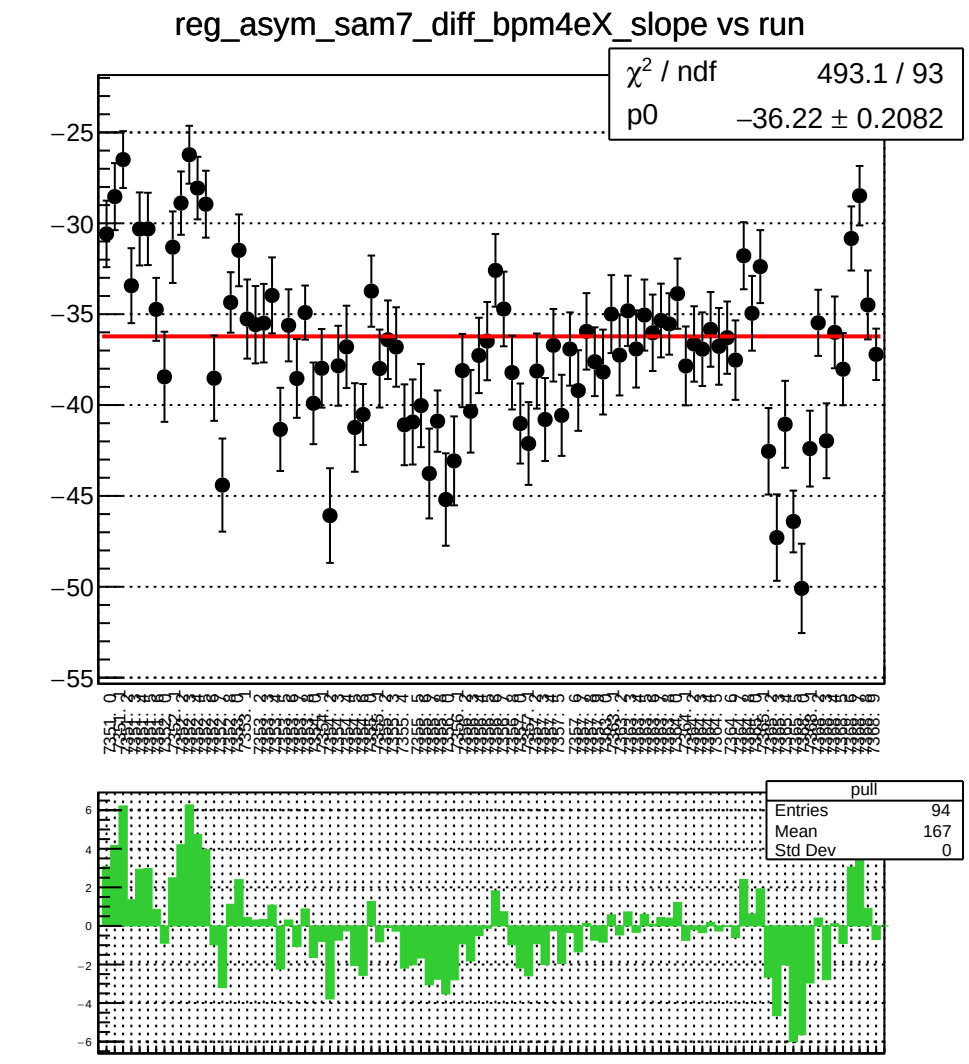

reg_asym_sam6_diff_bpm4eX_slope vs run
χ^2 / ndf 9.012 / 93
p0 59.34 ± 0.8051
pull
Entries 94
Mean −2553
Std Dev 0
pull1D
Entries 94
Mean 0.0008527
Std Dev 0.3096

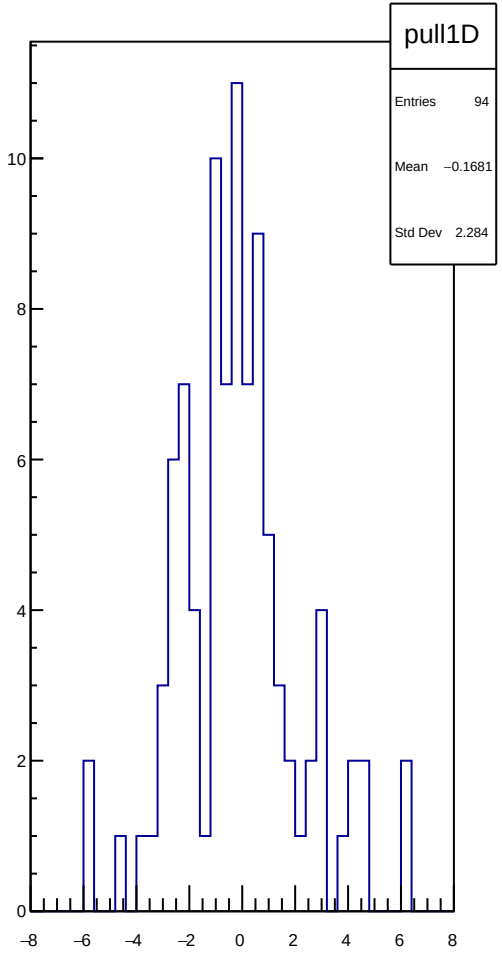

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 19.55 / 93
p0 87.36 ± 0.8249
105
100
95
90
85
80
75
70
65
pull
Entries 94
Mean 166
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 94
Mean −0.01392
Std Dev 0.4558
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

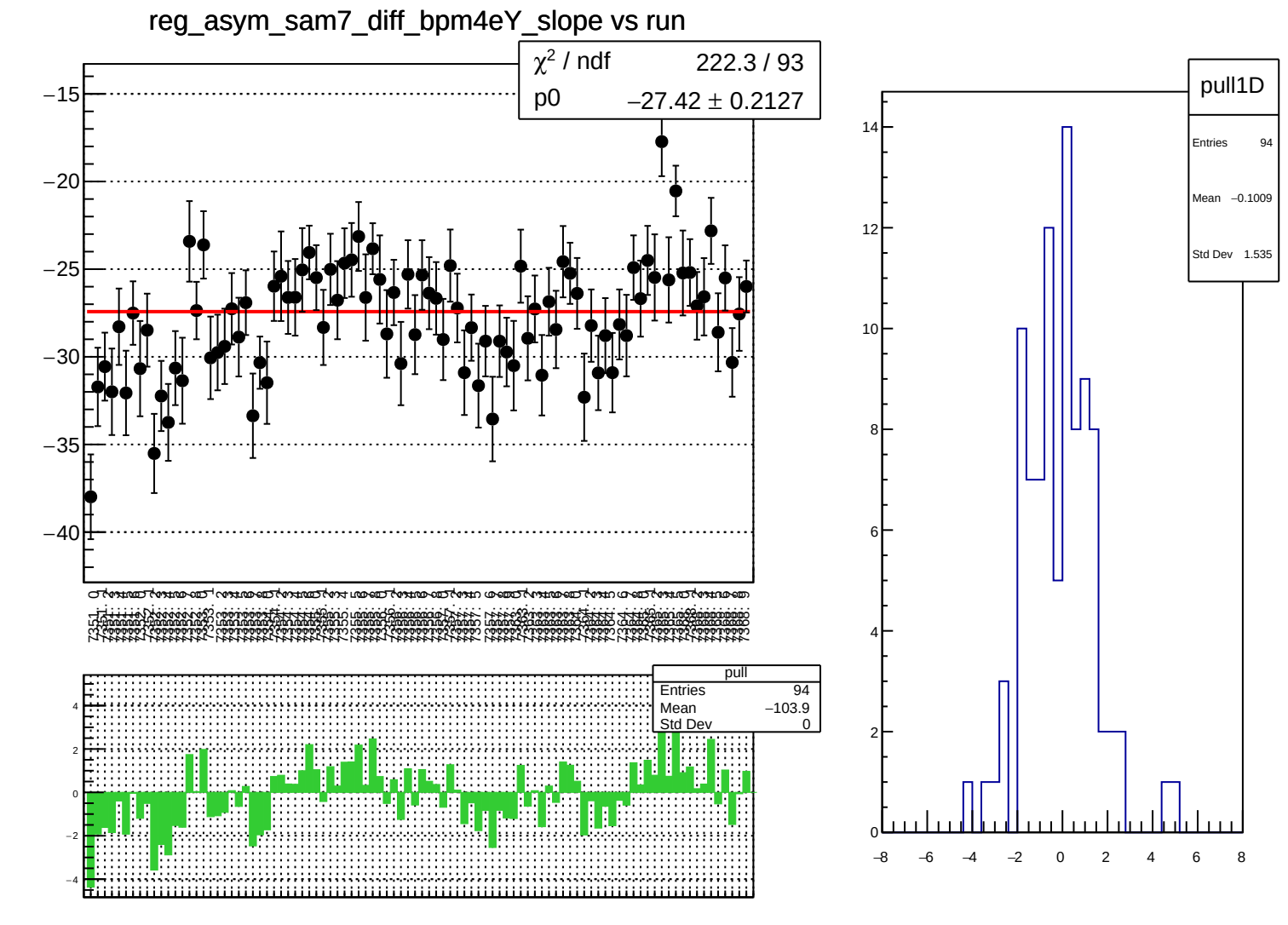

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 21.97 / 93
p0 −0.7918 ± 0.03808
pull
Entries 94
Mean 1201
Std Dev 0
pull1D
Entries 94
Mean 0.003974
Std Dev 0.4834

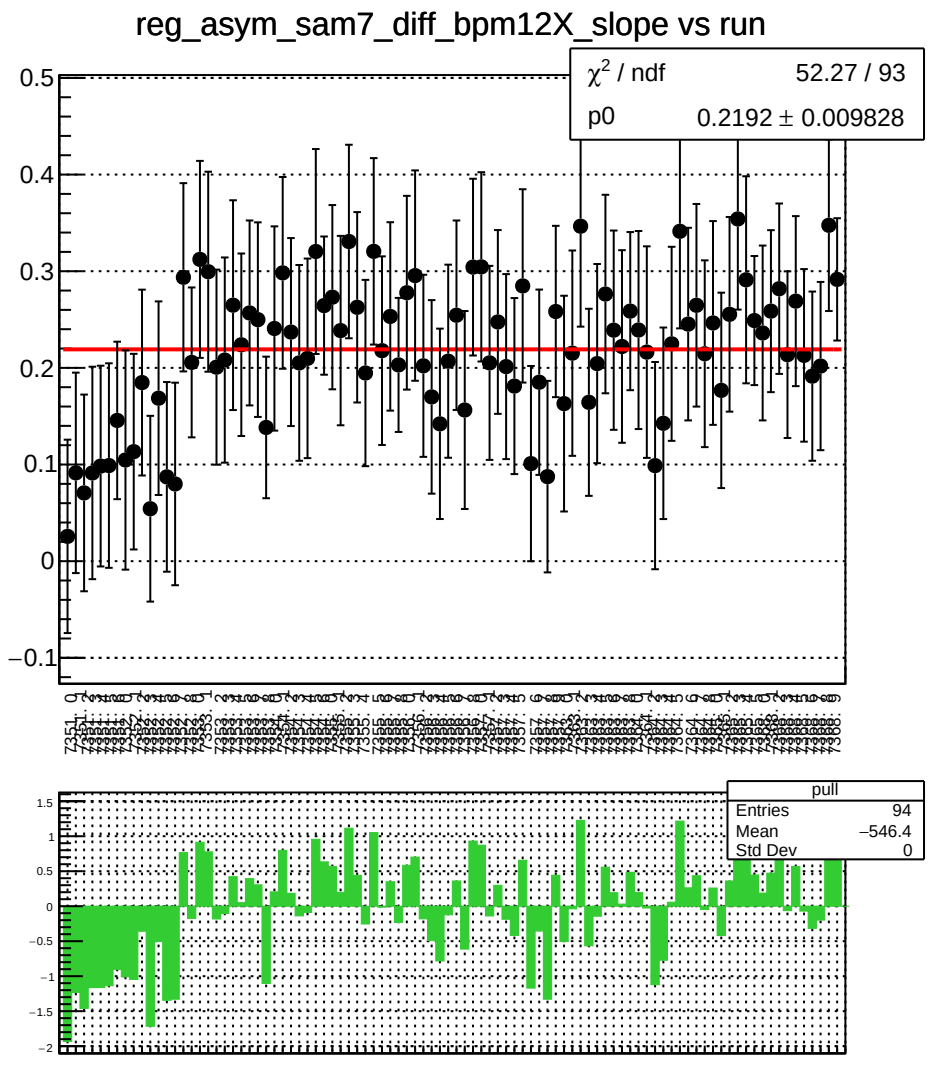

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 642.8 / 93
p0 1.512 ± 0.2094
pull
Entries 94
Mean 228.6
Std Dev 0
pull1D
Entries 94
Mean 0.1493
Std Dev 2.611

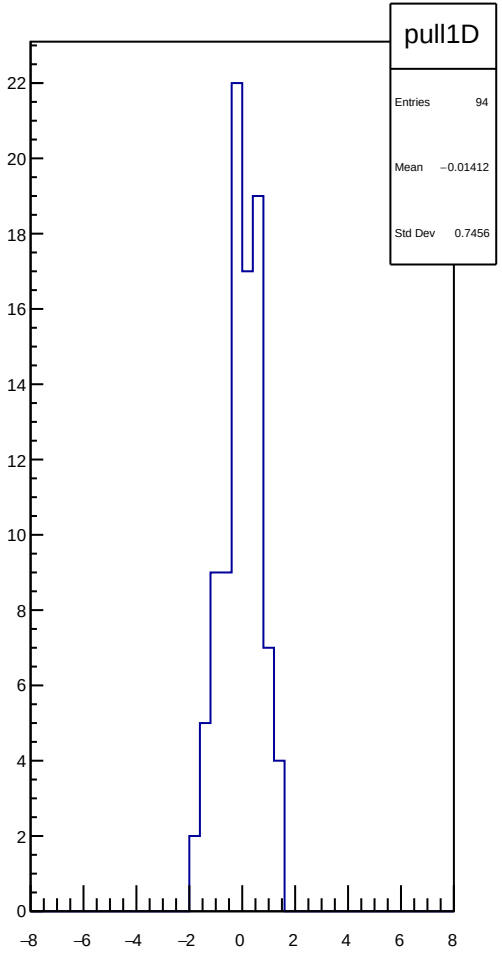

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 223.6 / 93
p0 20.01 ± 0.2008
pull
Entries 94
Mean −23.24
Std Dev 0
pull1D
Entries 94
Mean 0.1382
Std Dev 1.536

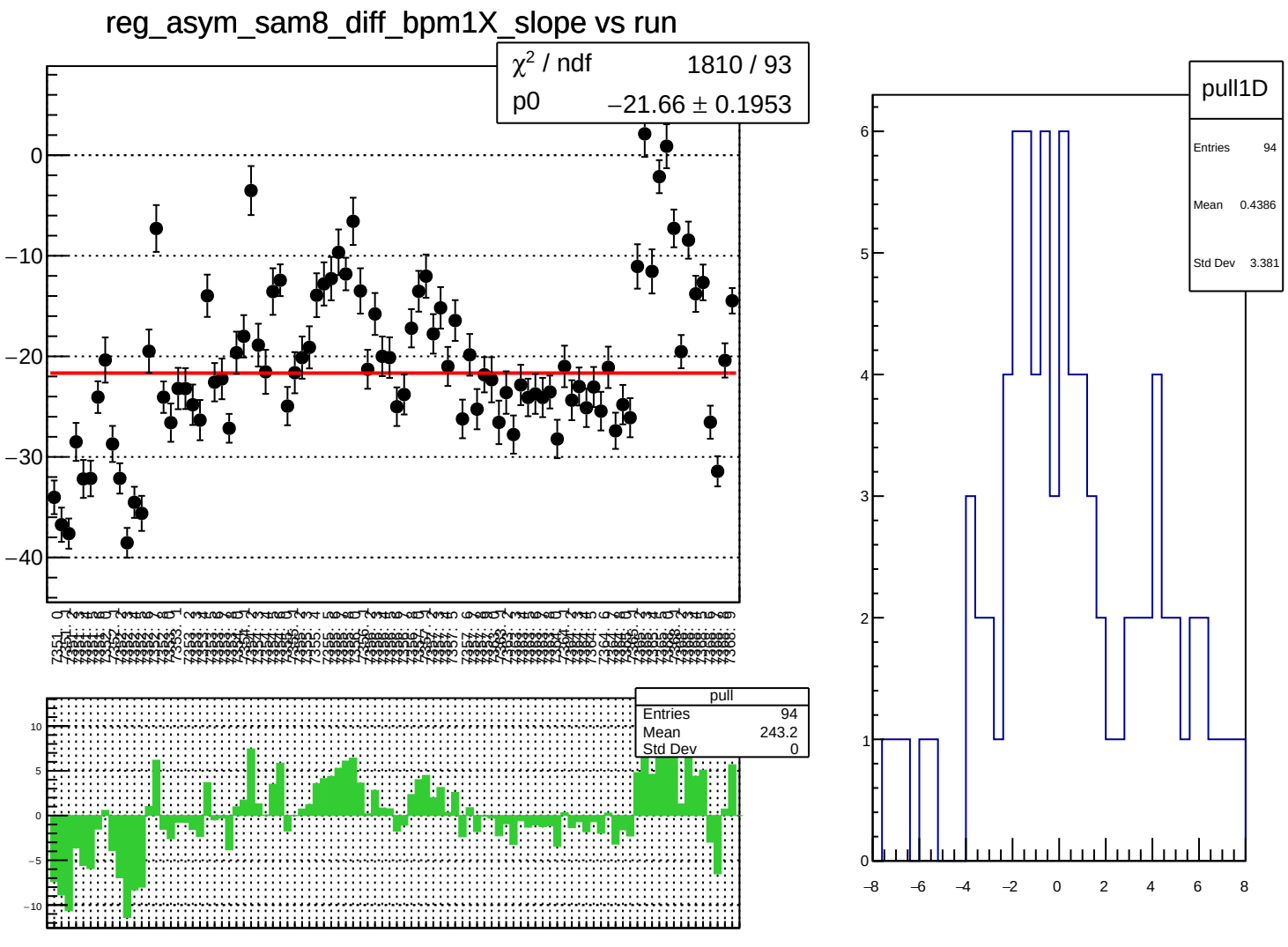

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 493.1 / 93
p0 −36.22 ± 0.2082
pull
Entries 94
Mean 167
Std Dev 0

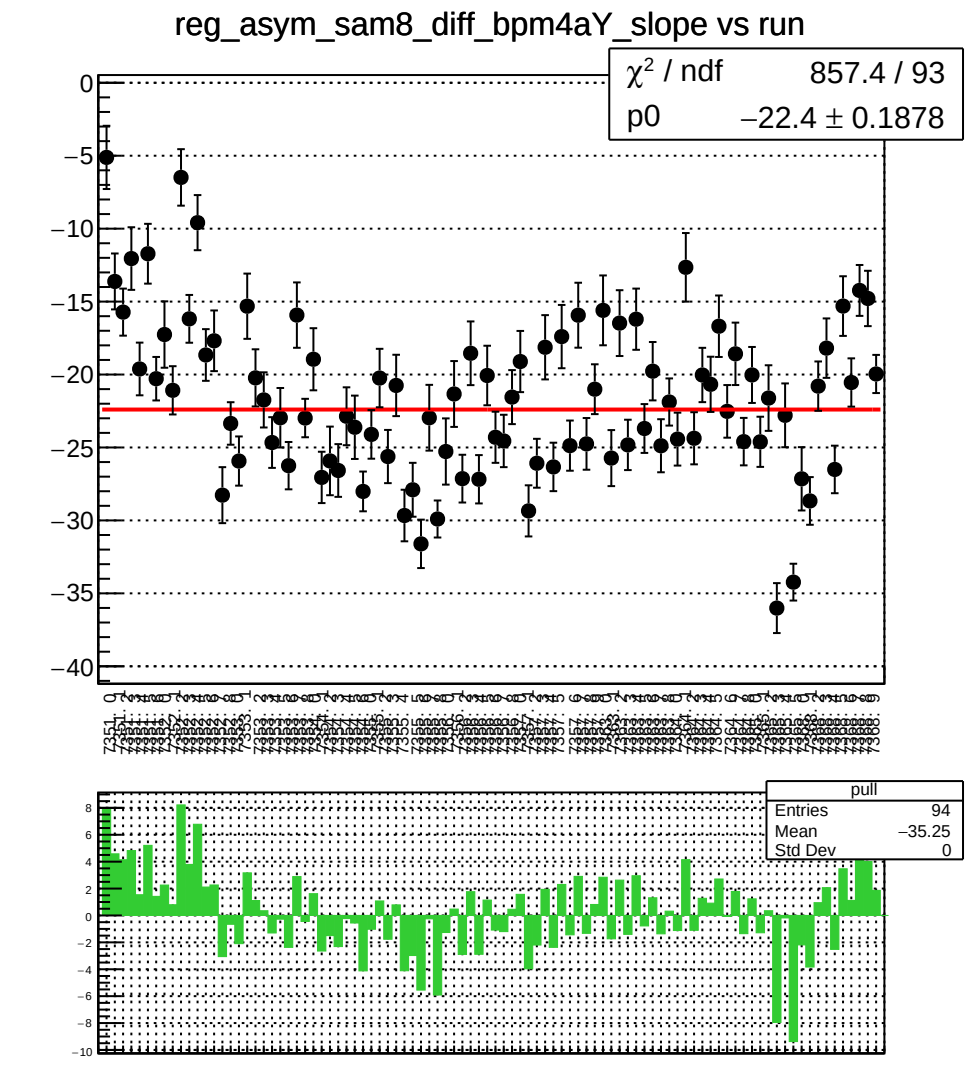

pull1D
Entries 94
Mean −0.1681
Std Dev 2.284

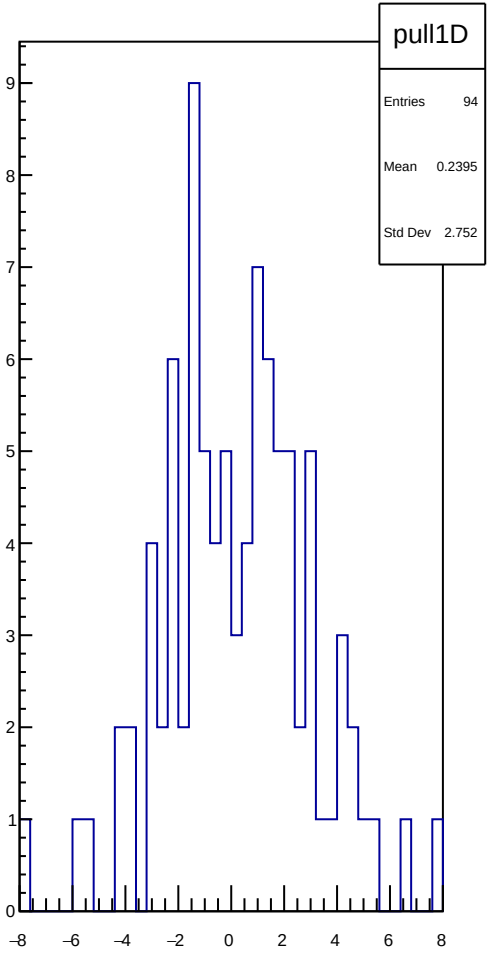

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 222.3 / 93
p0 −27.42 ± 0.2127
−15
−20
−25
−30
−35
−40
pull
Entries 94
Mean −103.9
Std Dev 0
4
2
0
−2
−4
pull1D
Entries 94
Mean −0.1009
Std Dev 1.535
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

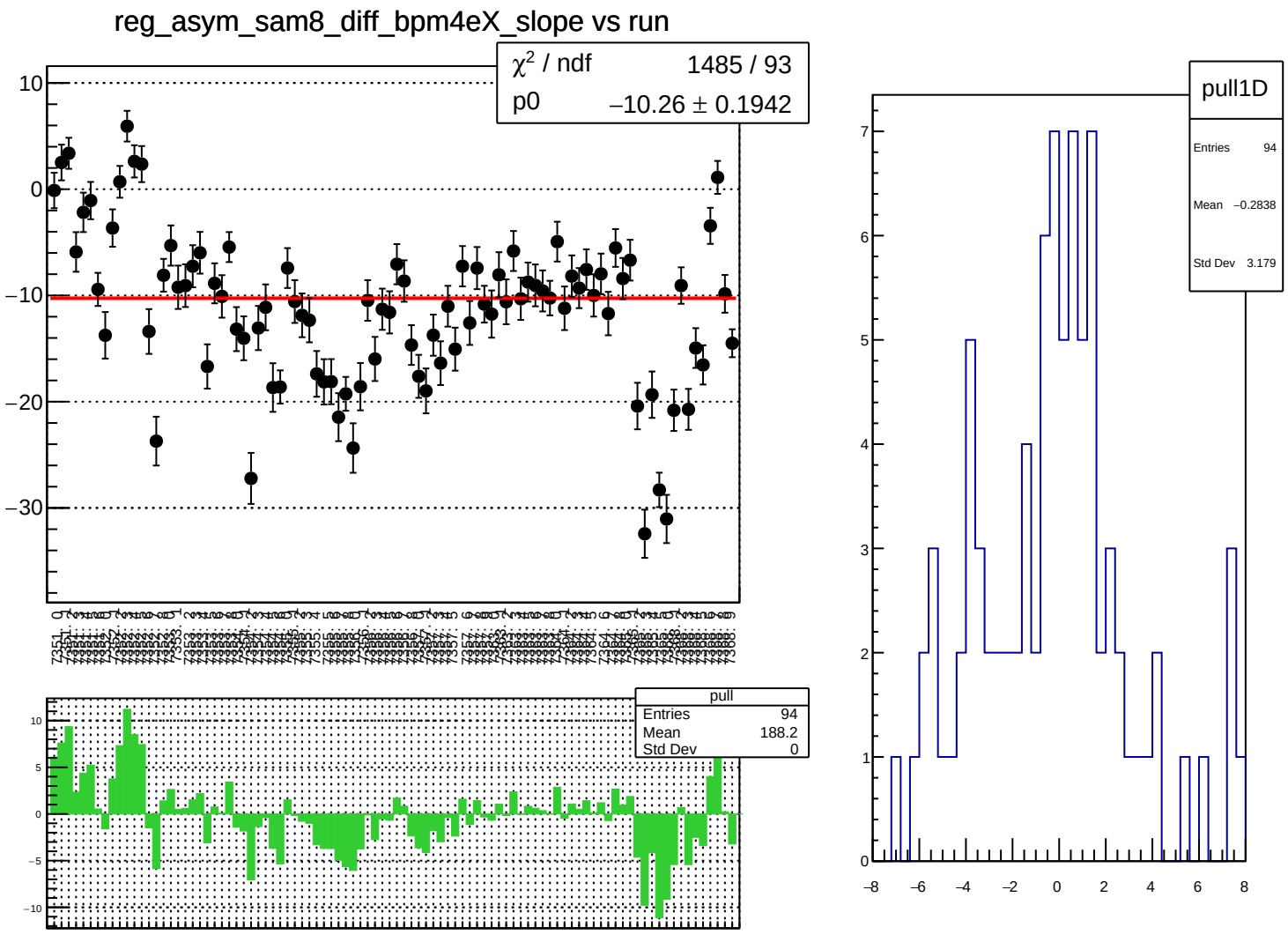

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 52.27 / 93
p0 0.2192 ± 0.009828
pull
Entries 94
Mean −546.4
Std Dev 0

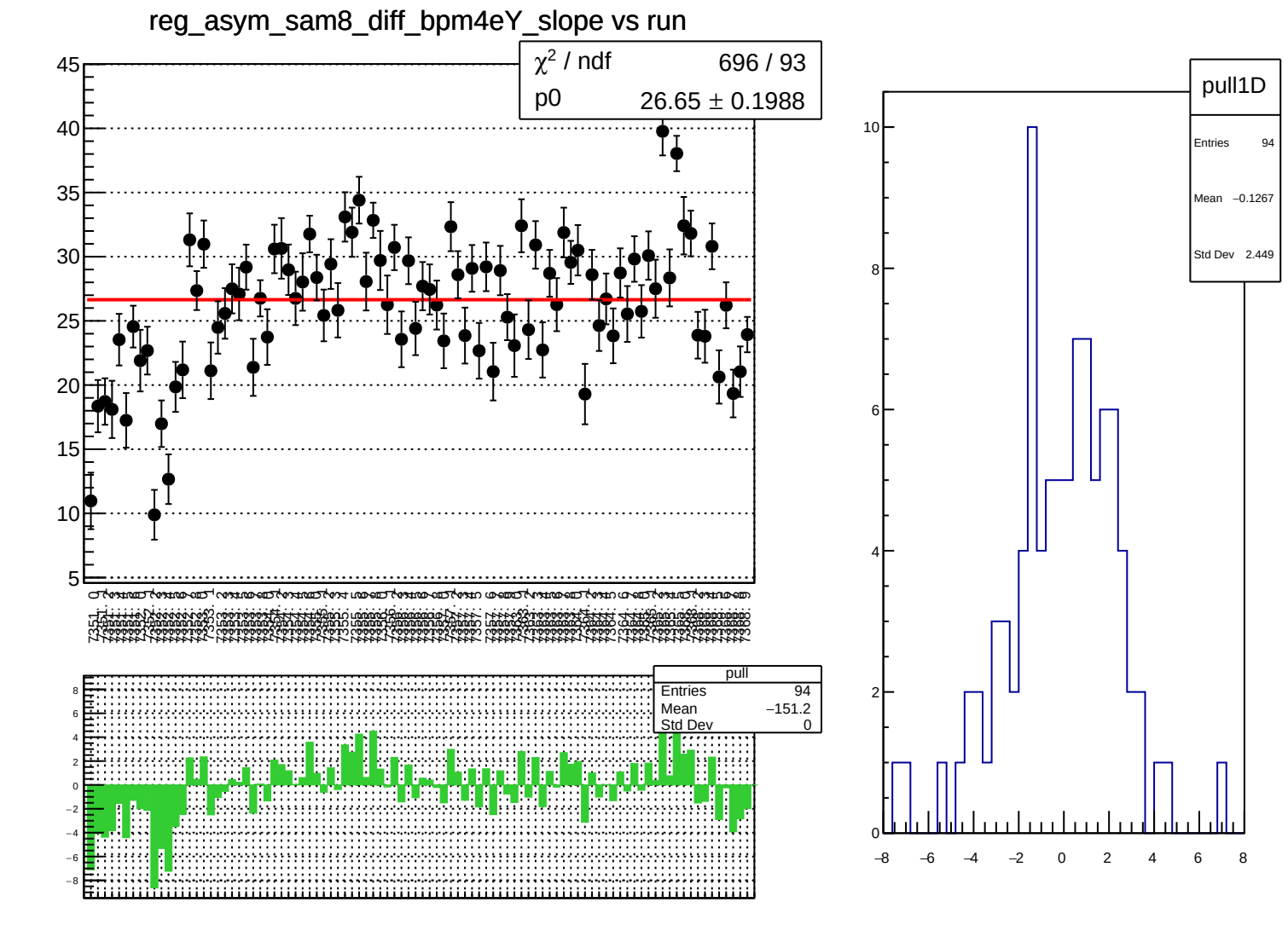

pull1D
Entries 94
Mean −0.01412
Std Dev 0.7456

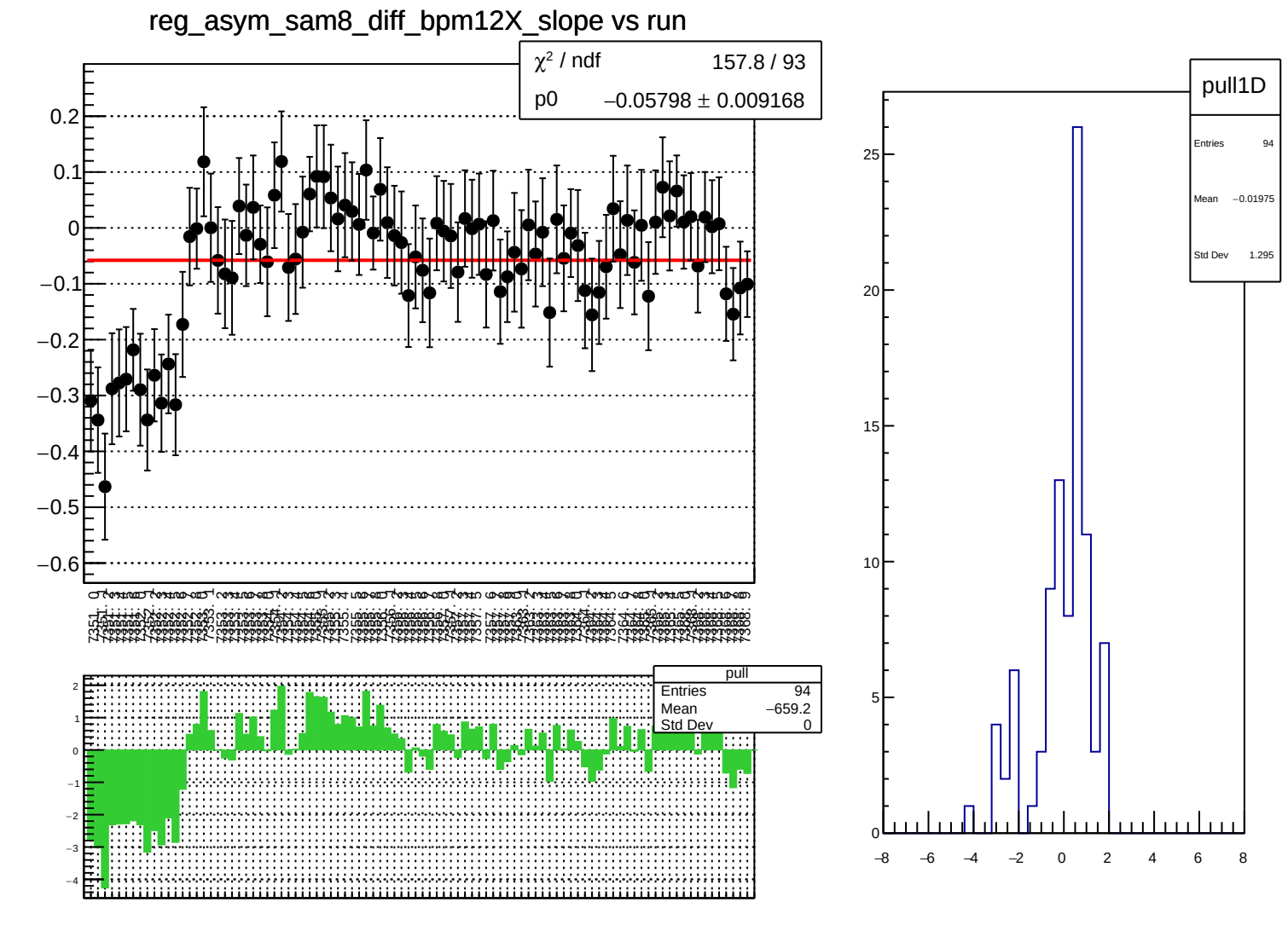

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 1810 / 93
p0 −21.66 ± 0.1953
pull
Entries 94
Mean 243.2
Std Dev 0
pull1D
Entries 94
Mean 0.4386
Std Dev 3.381

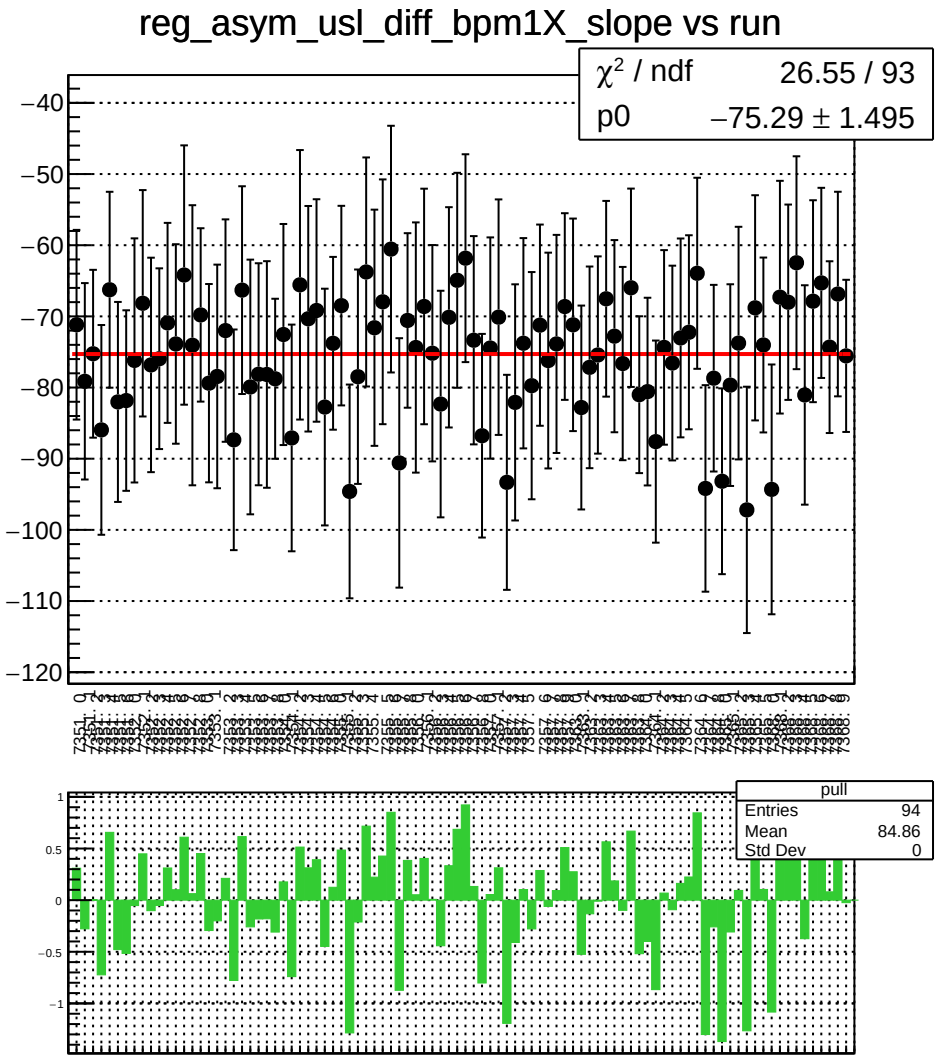

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 857.4 / 93
p0 −22.4 ± 0.1878
pull
Entries 94
Mean −35.25
Std Dev 0

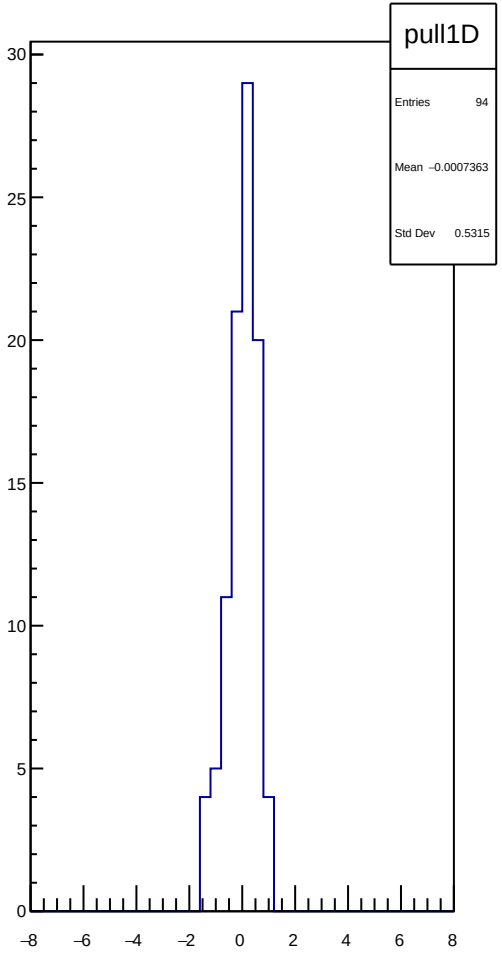

pull1D
Entries 94
Mean 0.2395
Std Dev 2.752

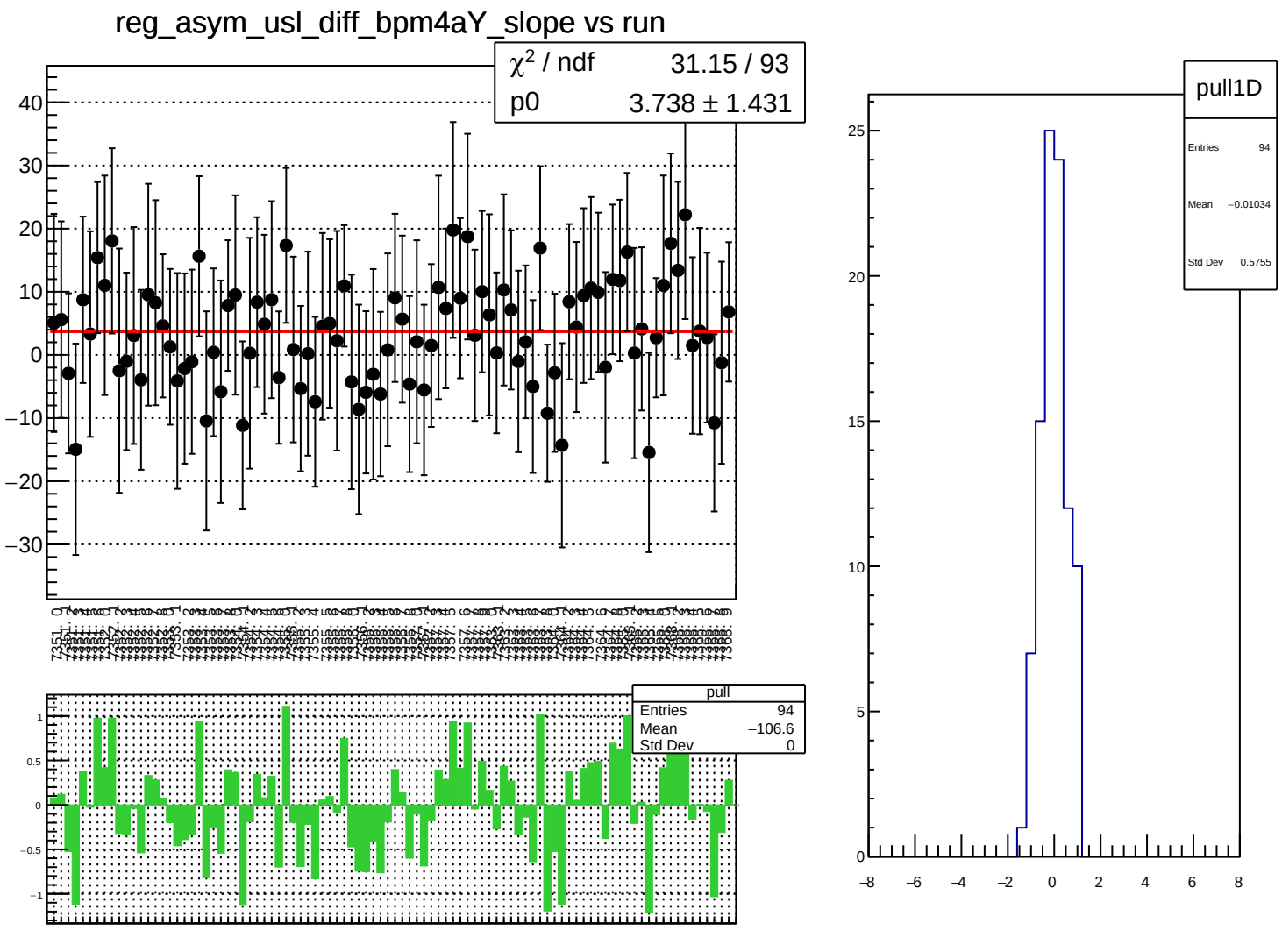

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 1485 / 93
p0 −10.26 ± 0.1942
pull
Entries 94
Mean 188.2
Std Dev 0
pull1D
Entries 94
Mean −0.2838
Std Dev 3.179

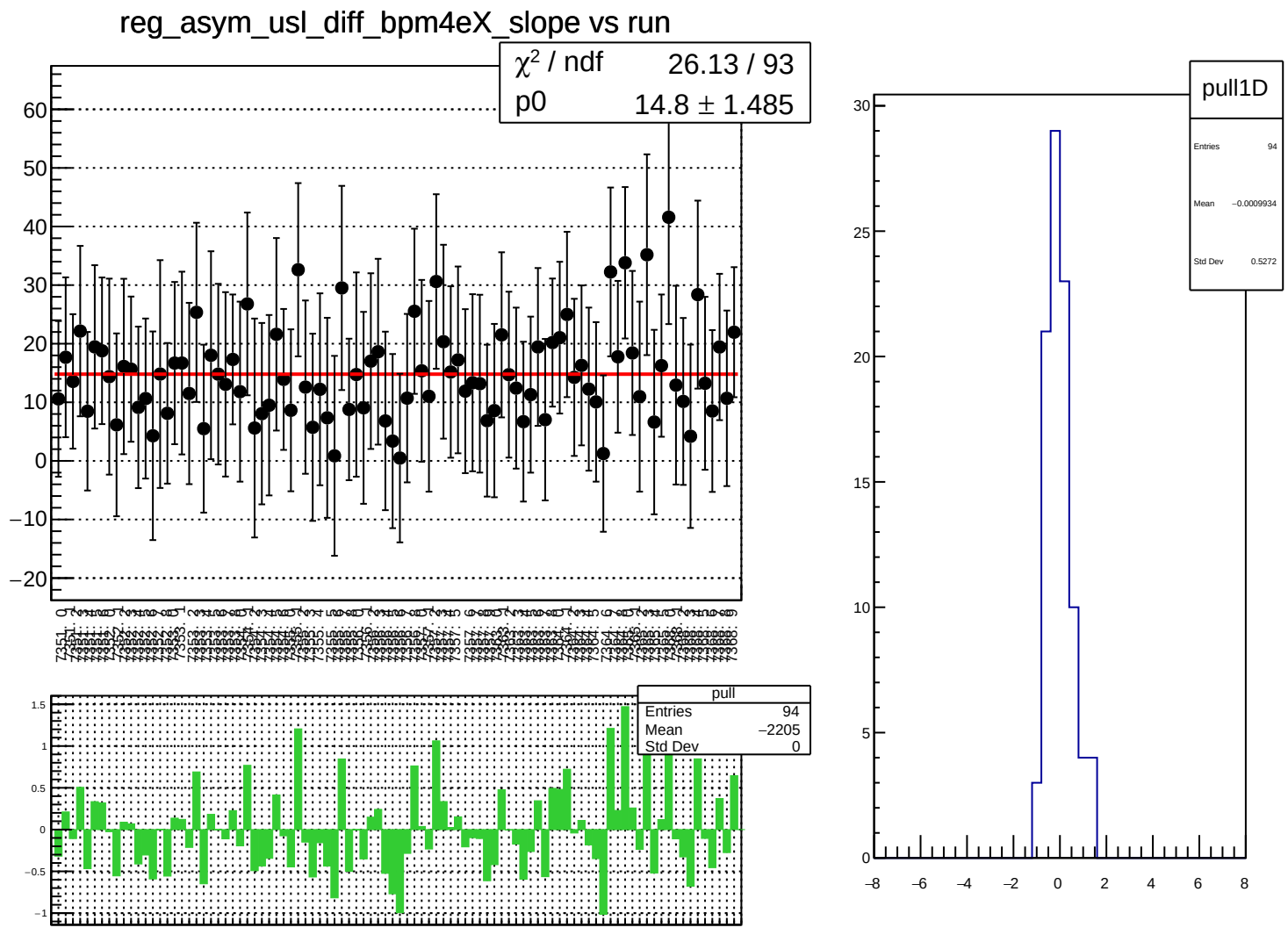

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 696 / 93
p0 26.65 ± 0.1988
pull
Entries 94
Mean −151.2
Std Dev 0
pull1D
Entries 94
Mean −0.1267
Std Dev 2.449

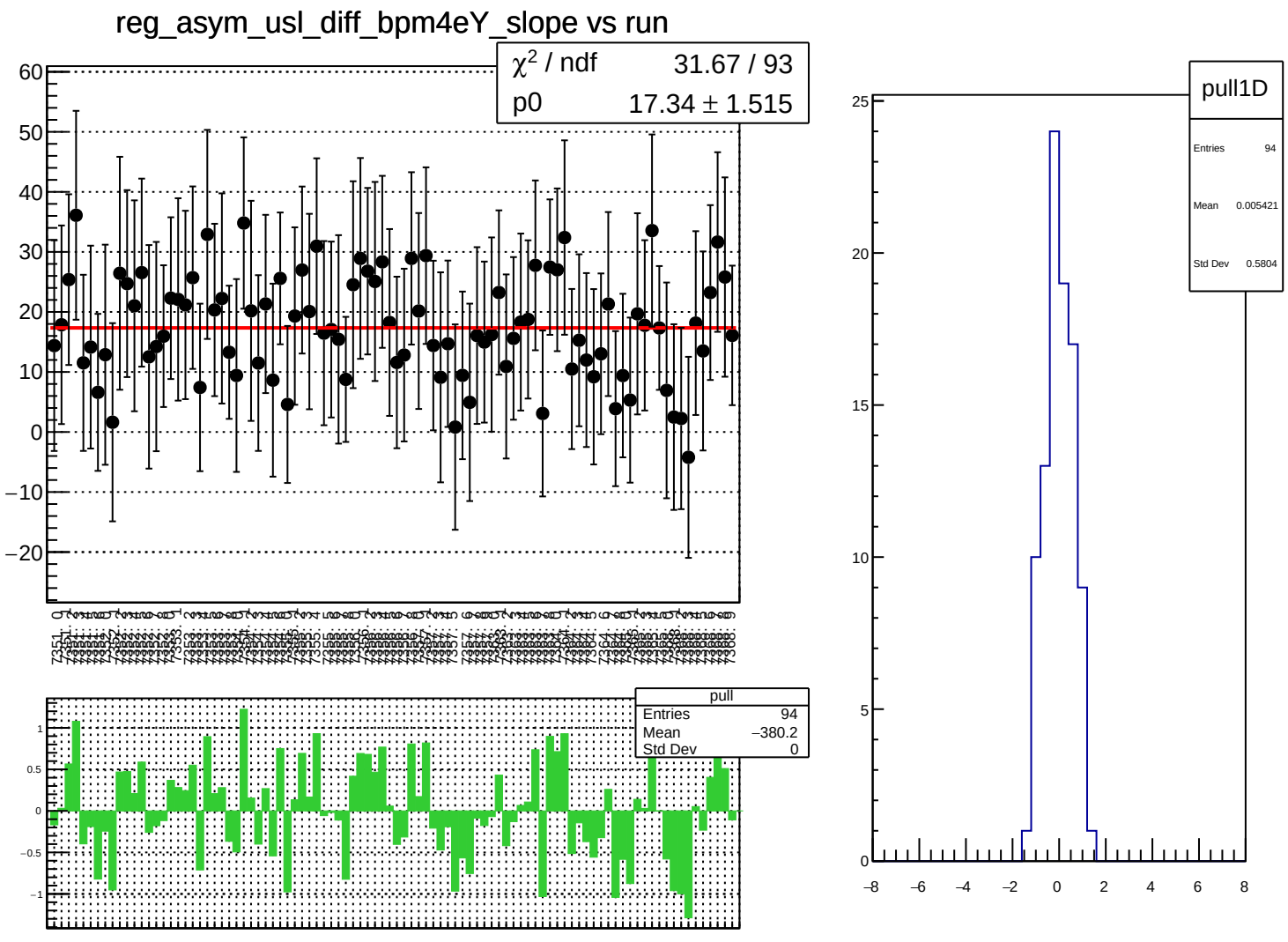

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 157.8 / 93
p0 −0.05798 ± 0.009168
pull
Entries 94
Mean −659.2
Std Dev 0
pull1D
Entries 94
Mean −0.01975
Std Dev 1.295

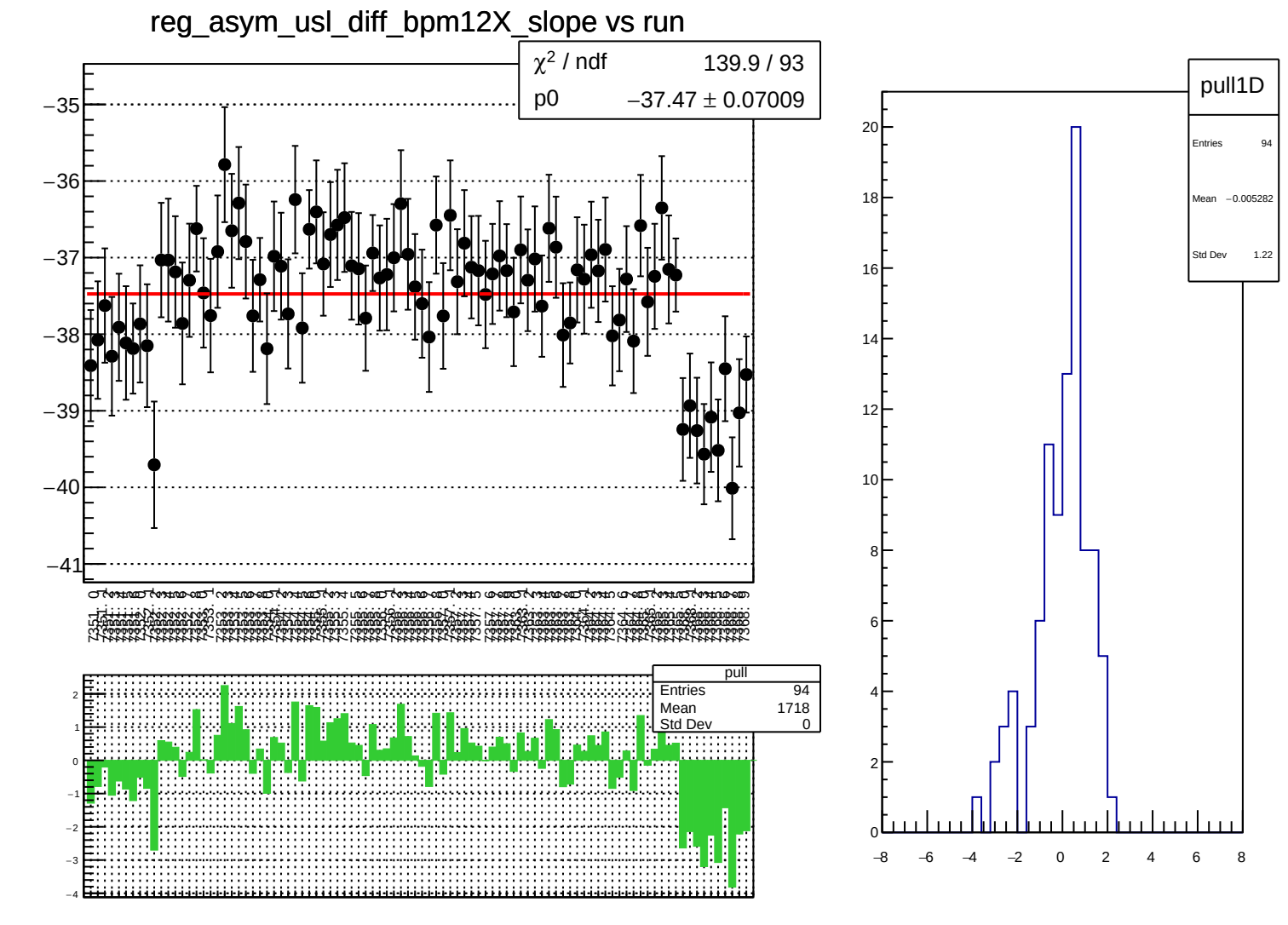

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 26.55 / 93
p0 −75.29 ± 1.495
pull
Entries 94
Mean 84.86
Std Dev 0

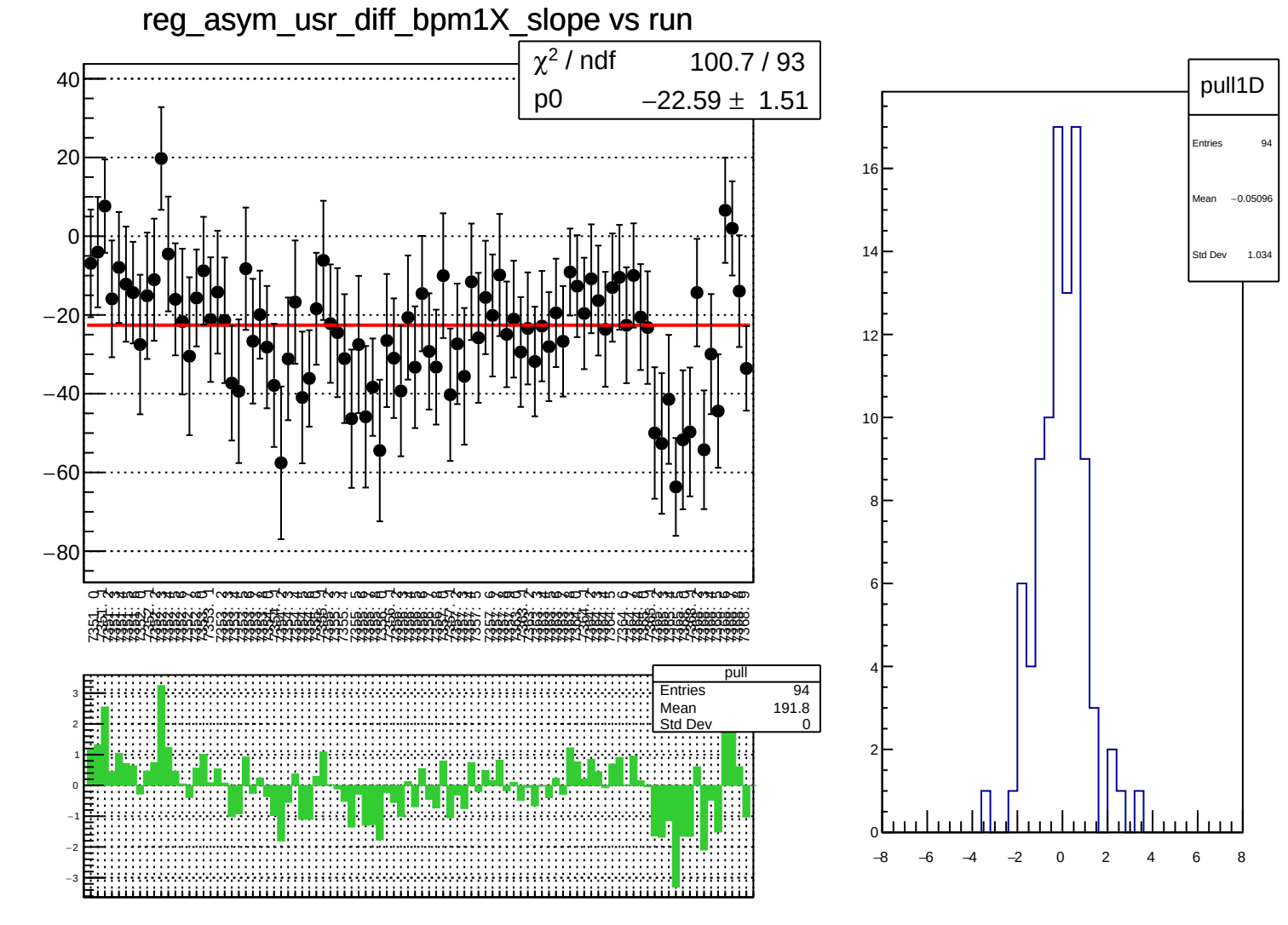

pull1D
Entries 94
Mean −0.0007363
Std Dev 0.5315

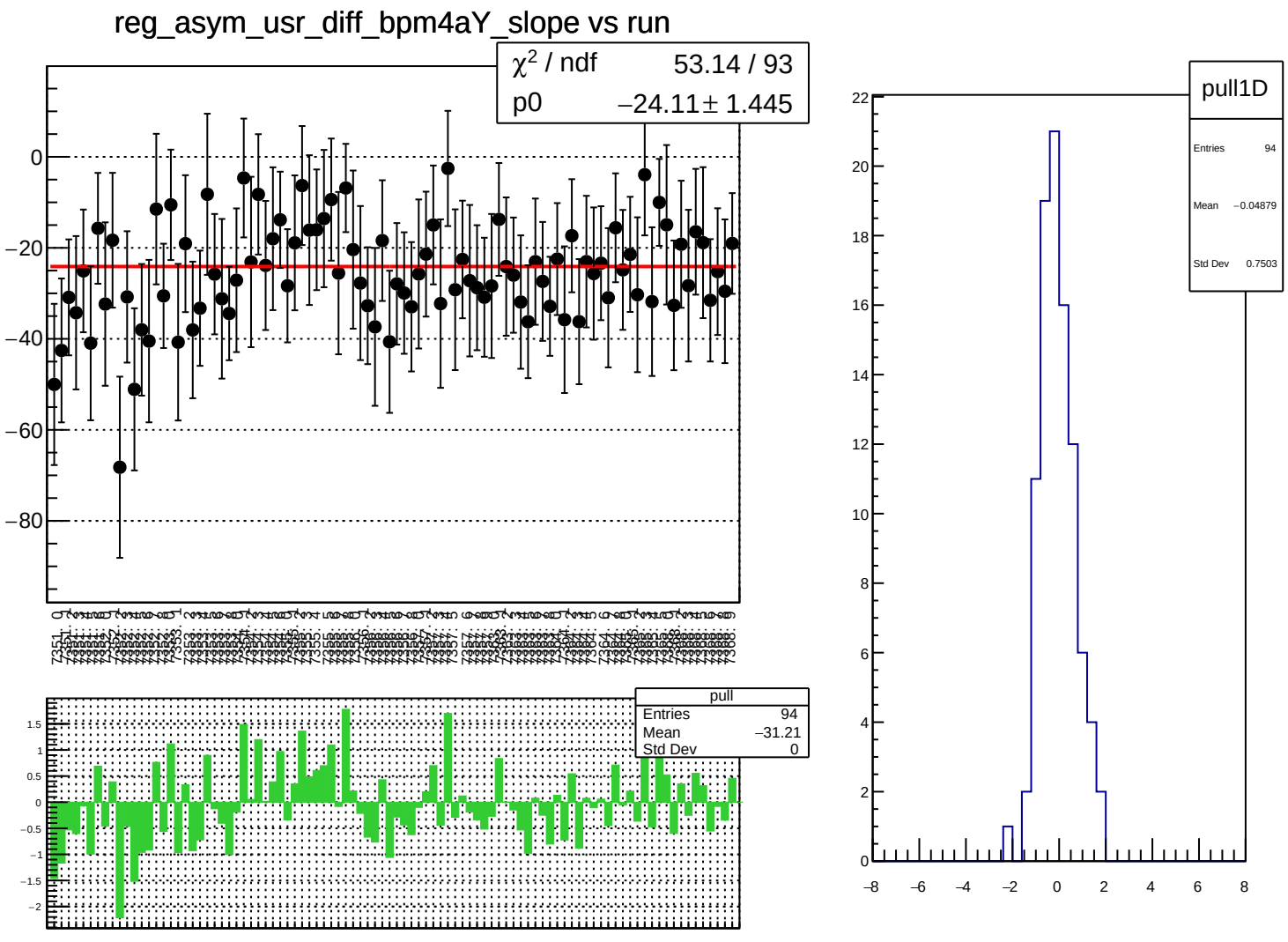

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 31.15 / 93
p0 3.738 ± 1.431
pull
Entries 94
Mean −106.6
Std Dev 0
pull1D
Entries 94
Mean −0.01034
Std Dev 0.5755

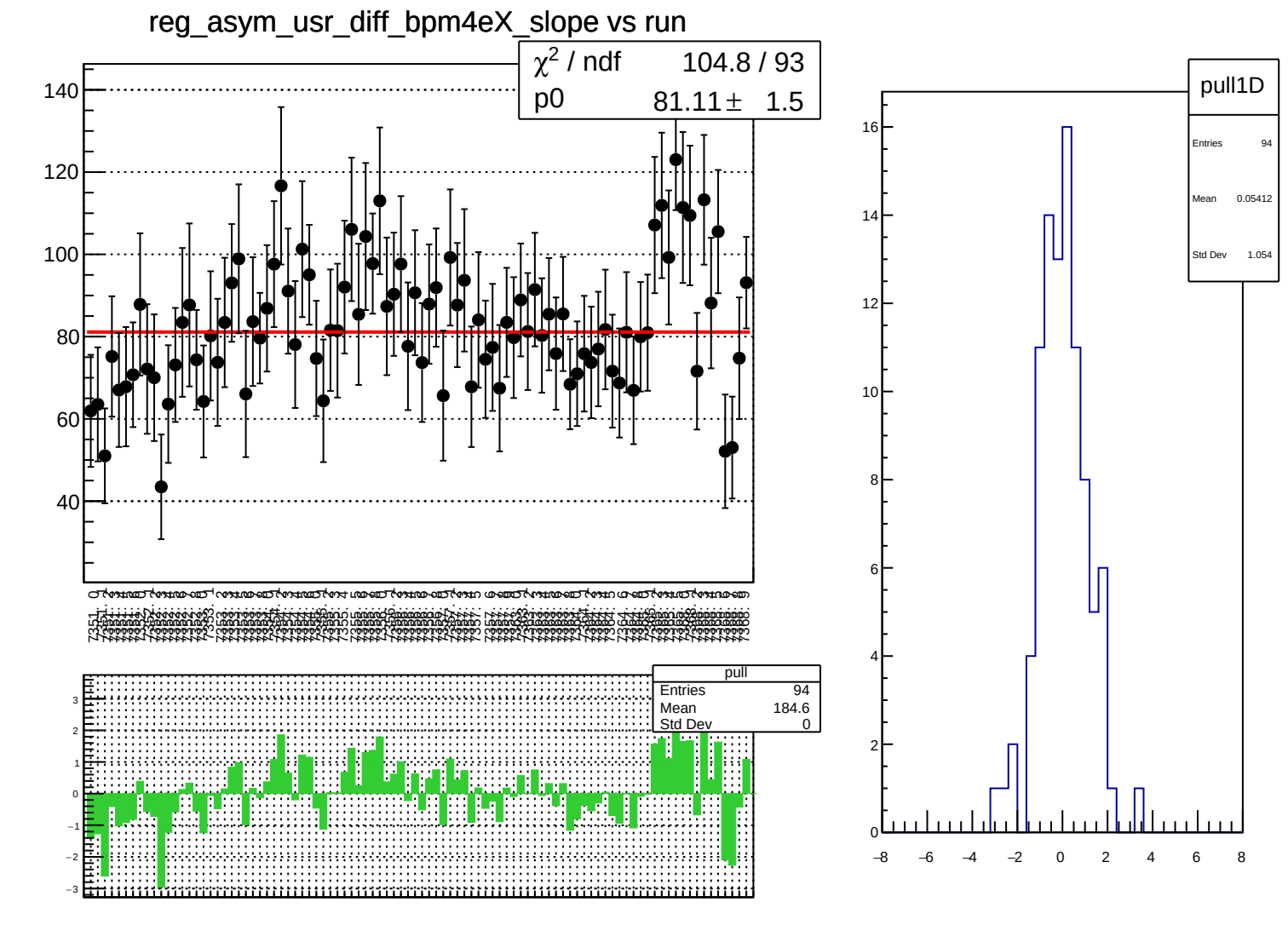

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 26.13 / 93
p0 14.8 ± 1.485
pull
Entries 94
Mean −2205
Std Dev 0
pull1D
Entries 94
Mean −0.0009934
Std Dev 0.5272

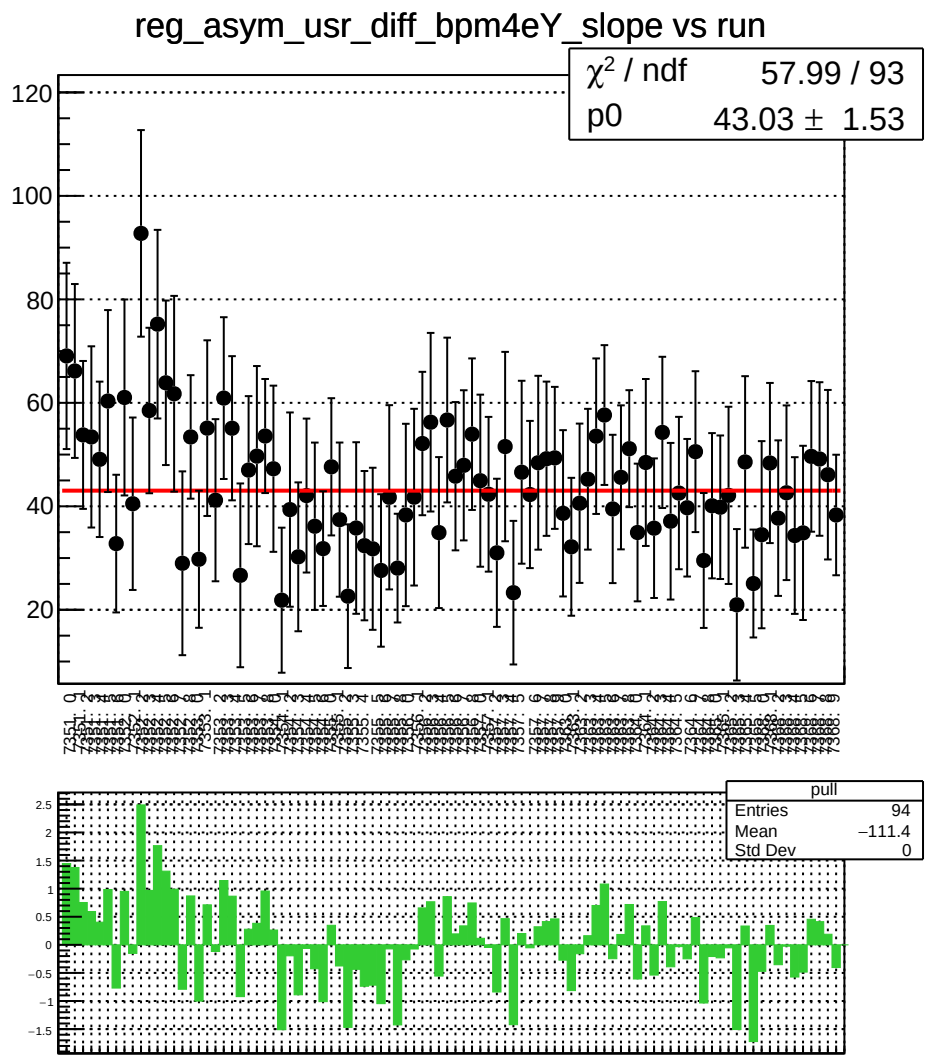

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 31.67 / 93
p0 17.34 ± 1.515
pull
Entries 94
Mean −380.2
Std Dev 0
pull1D
Entries 94
Mean 0.005421
Std Dev 0.5804

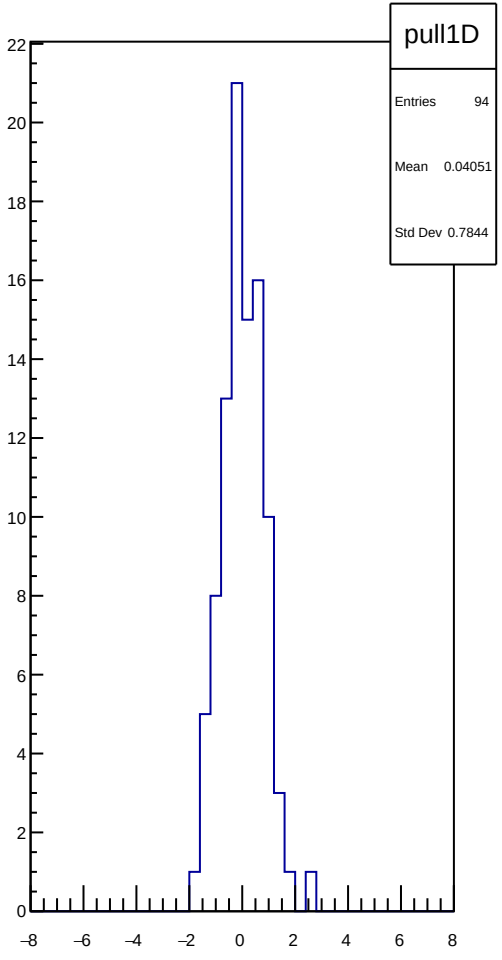

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 139.9 / 93
p0 −37.47 ± 0.07009
pull
Entries 94
Mean 1718
Std Dev 0
pull1D
Entries 94
Mean −0.005282
Std Dev 1.22

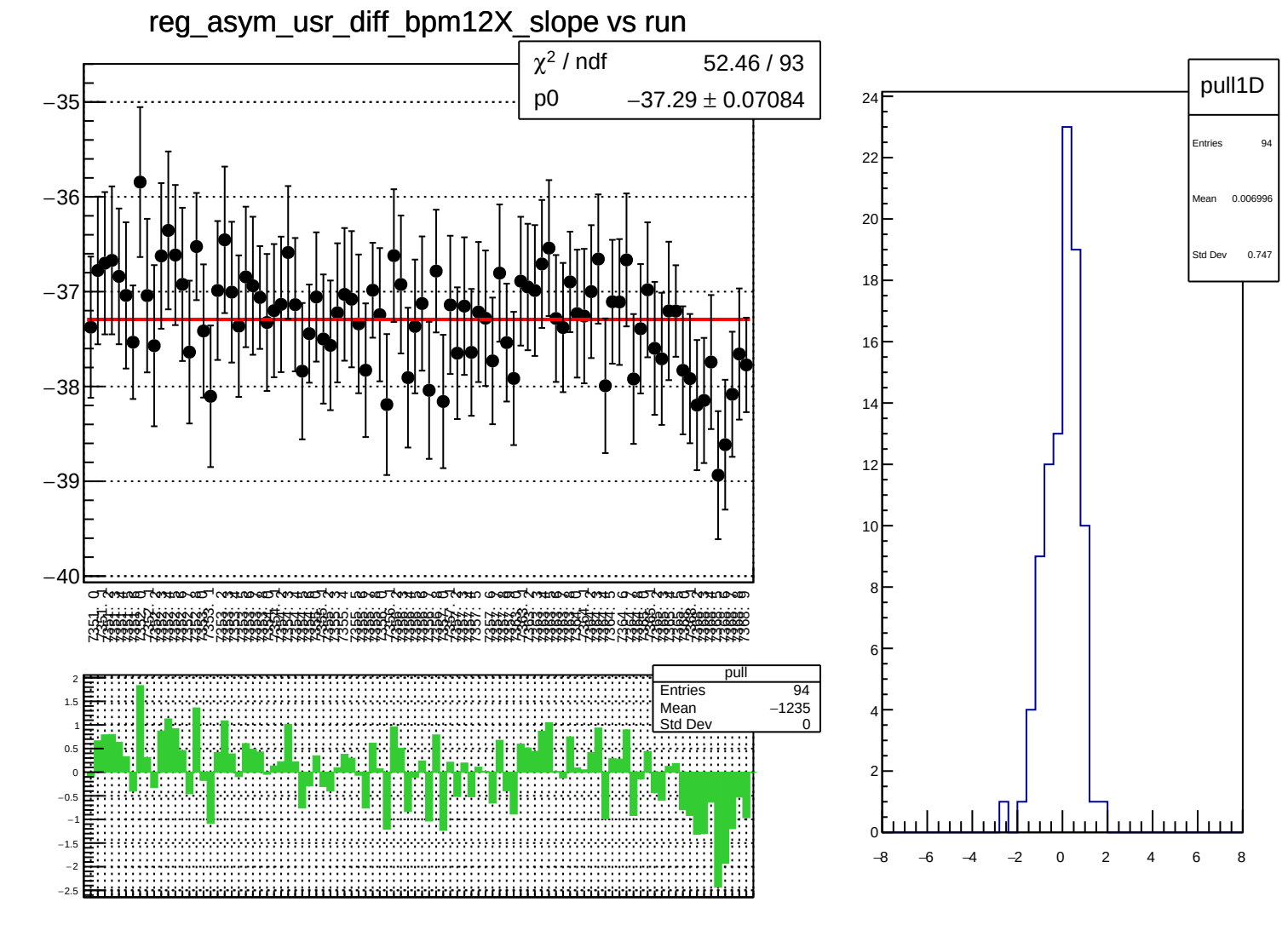

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 100.7 / 93
p0 −22.59 ± 1.51
pull
Entries 94
Mean 191.8
Std Dev 0
pull1D
Entries 94
Mean −0.05096
Std Dev 1.034

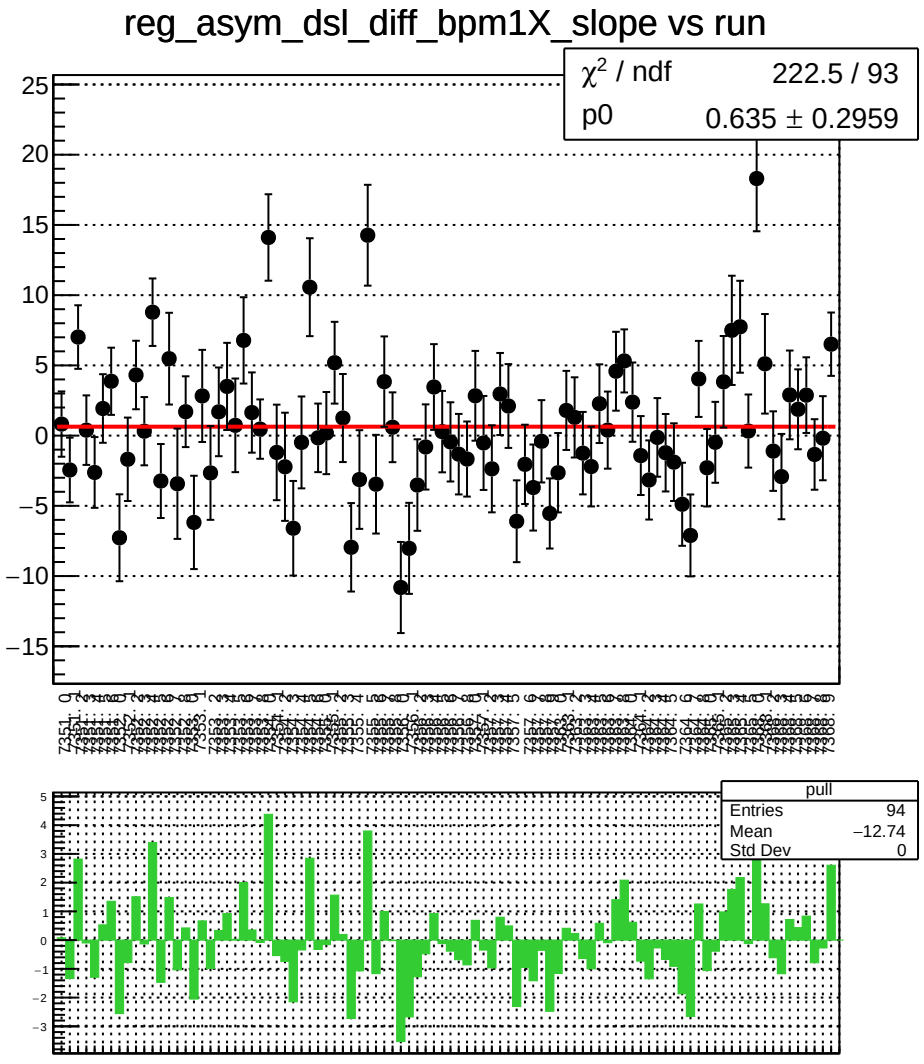

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 53.14 / 93
p0 −24.11 ± 1.445
0
−20
−40
−60
−80
pull
Entries 94
Mean −31.21
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean −0.04879
Std Dev 0.7503
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

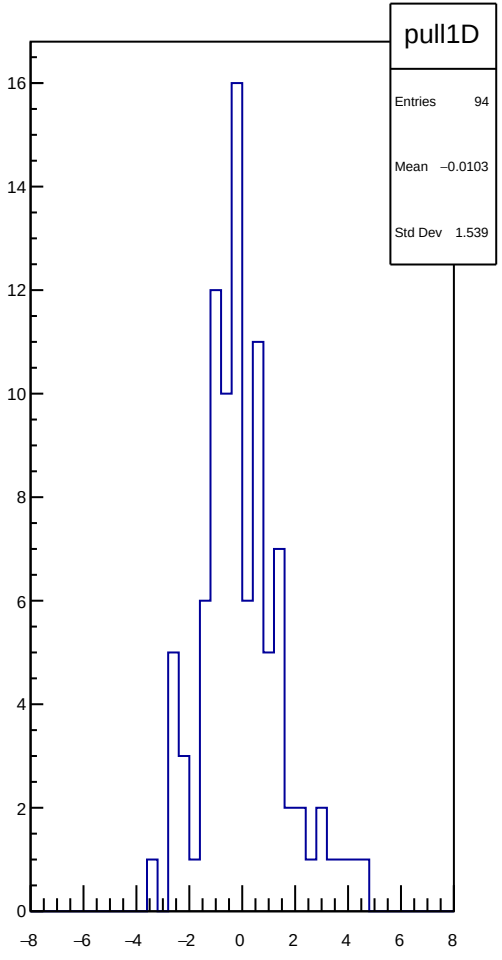

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 104.8 / 93
p0 81.11 ± 1.5
pull
Entries 94
Mean 184.6
Std Dev 0
pull1D
Entries 94
Mean 0.05412
Std Dev 1.054

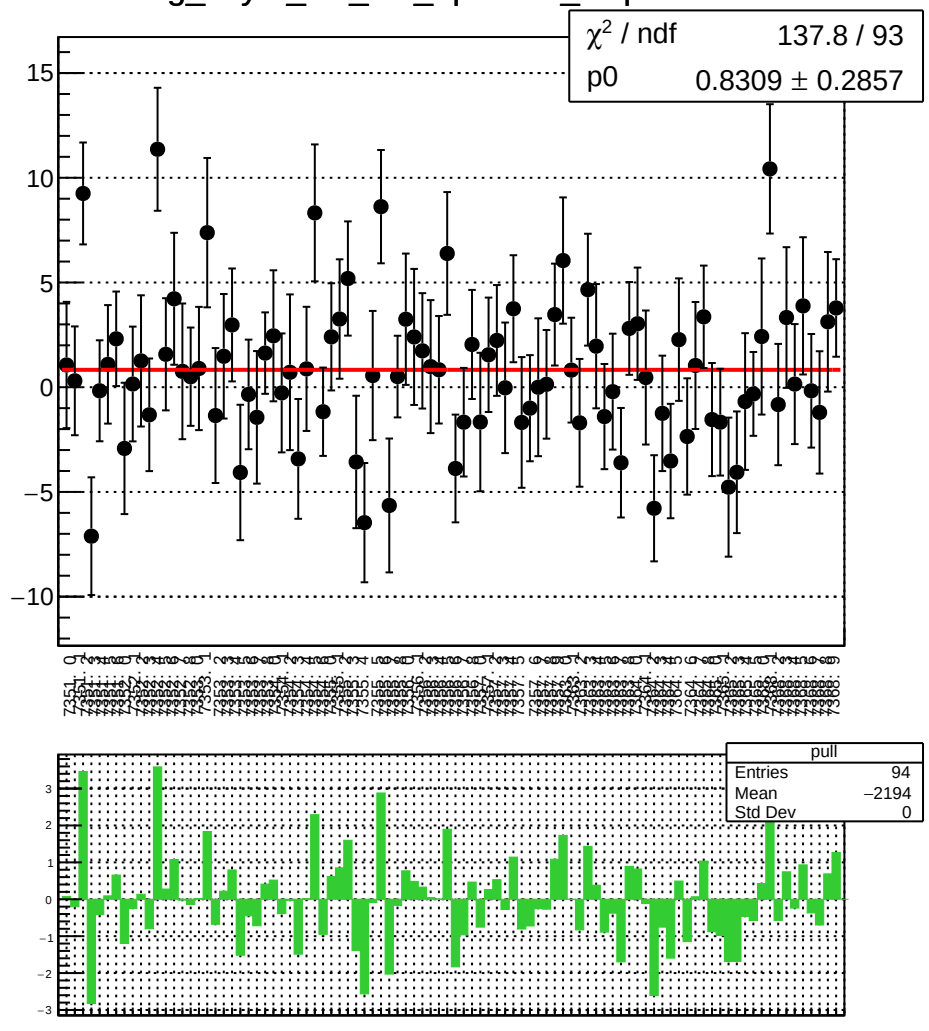

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 57.99 / 93
p0 43.03 ± 1.53
pull
Entries 94
Mean −111.4
Std Dev 0

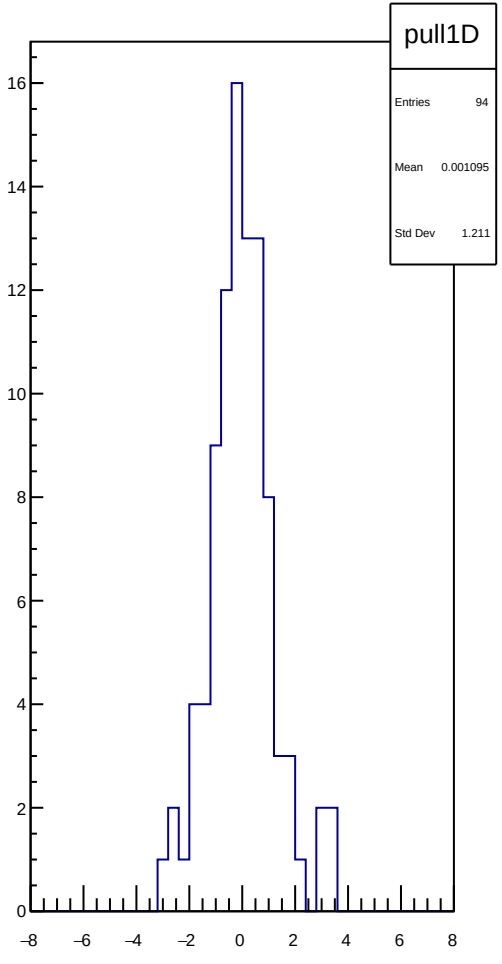

pull1D
Entries 94
Mean 0.04051
Std Dev 0.7844

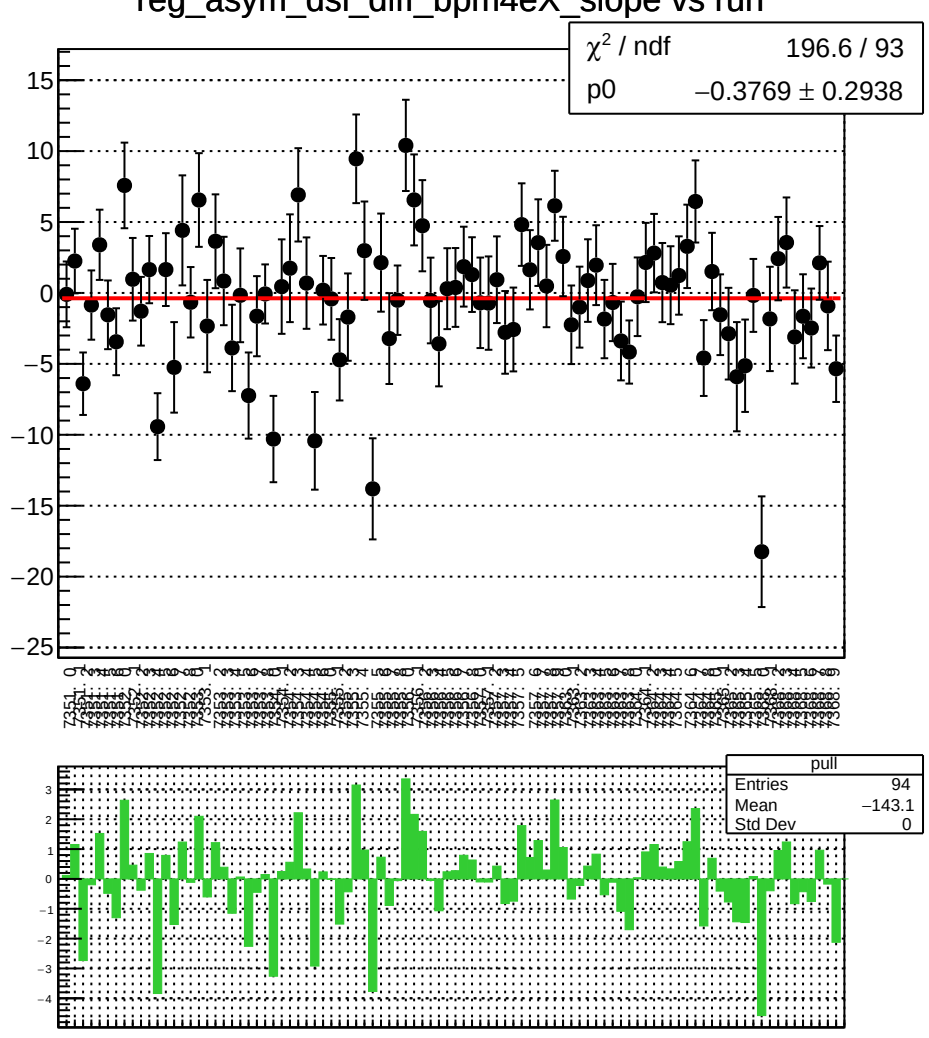

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 52.46 / 93
p0 −37.29 ± 0.07084
pull
Entries 94
Mean −1235
Std Dev 0
pull1D
Entries 94
Mean 0.006996
Std Dev 0.747

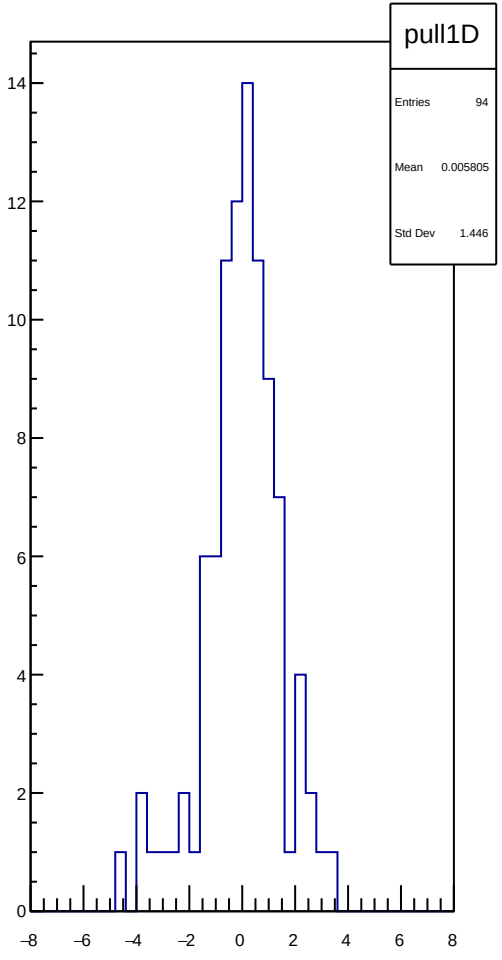

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 222.5 / 93
p0 0.635 ± 0.2959
pull
Entries 94
Mean −12.74
Std Dev 0

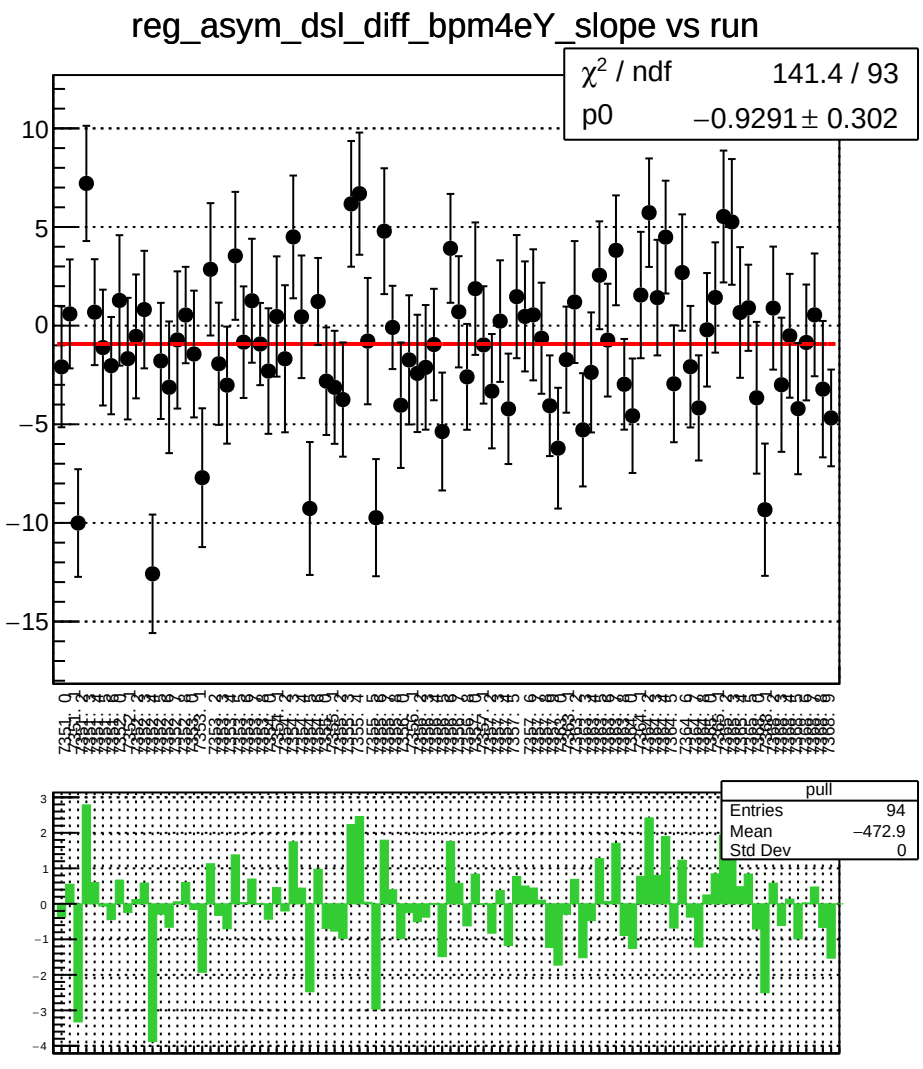

pull1D
Entries 94
Mean −0.0103
Std Dev 1.539

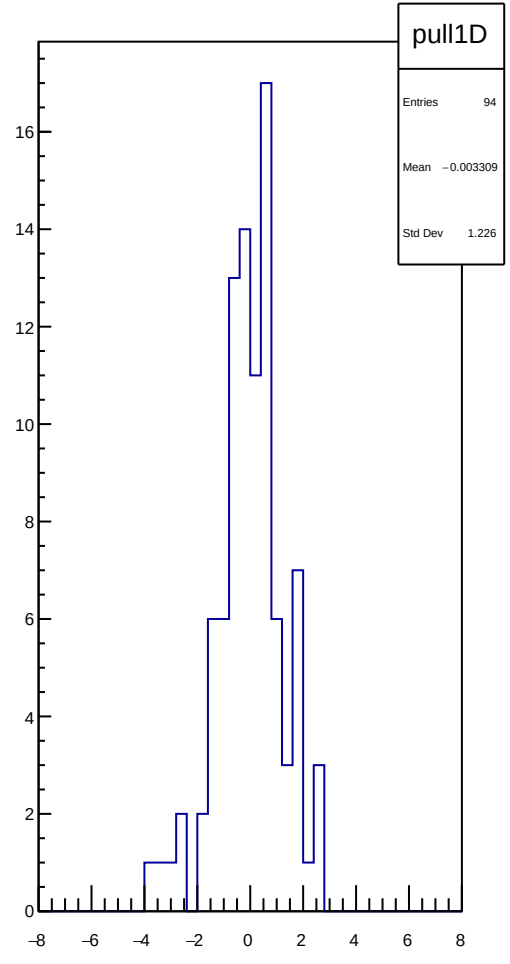

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 137.8 / 93
p0 0.8309 ± 0.2857
pull
Entries 94
Mean −2194
Std Dev 0

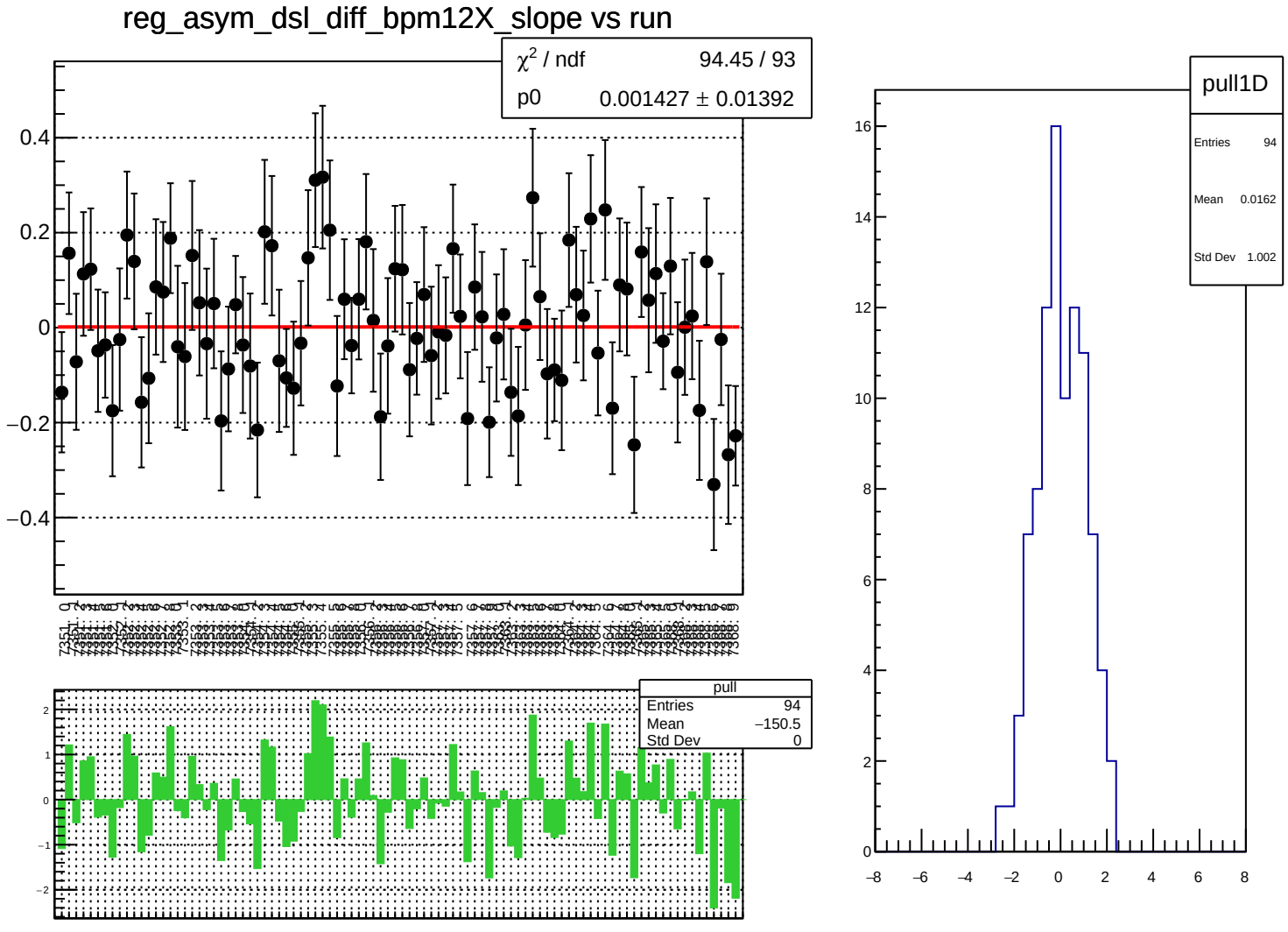

pull1D
Entries 94
Mean 0.001095
Std Dev 1.211

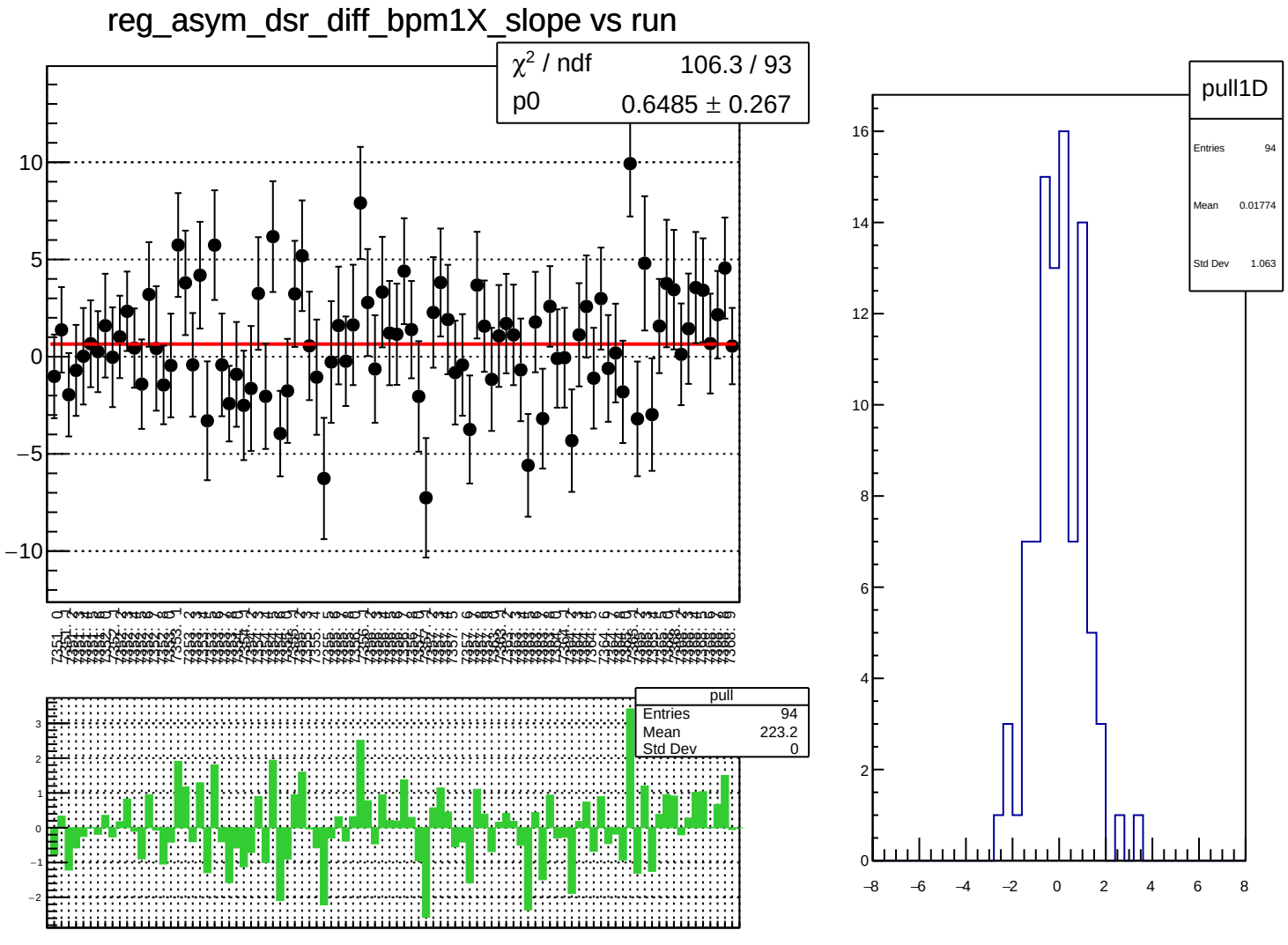

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 196.6 / 93
p0 −0.3769 ± 0.2938
pull
Entries 94
Mean −143.1
Std Dev 0

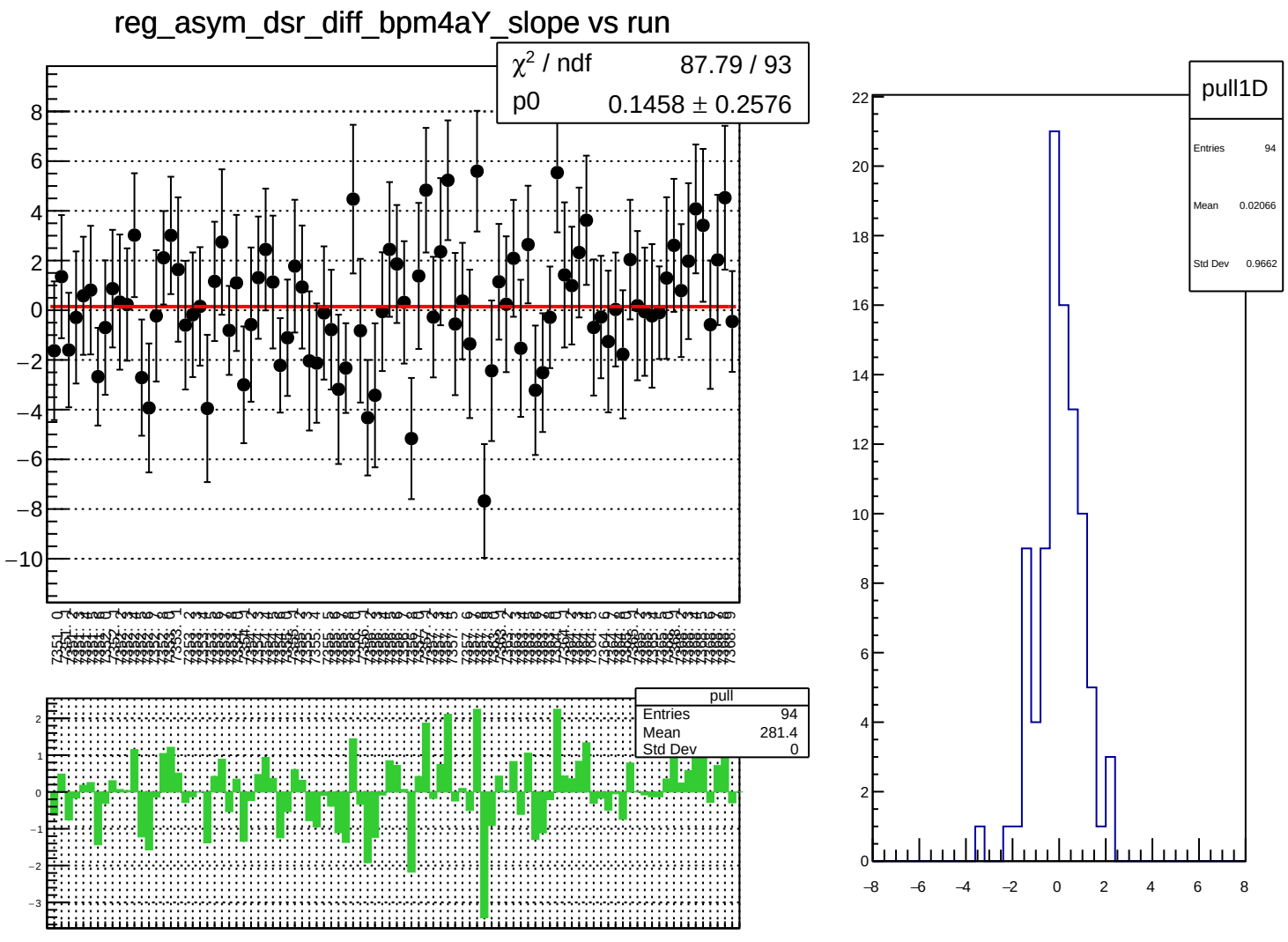

pull1D
Entries 94
Mean 0.005805
Std Dev 1.446

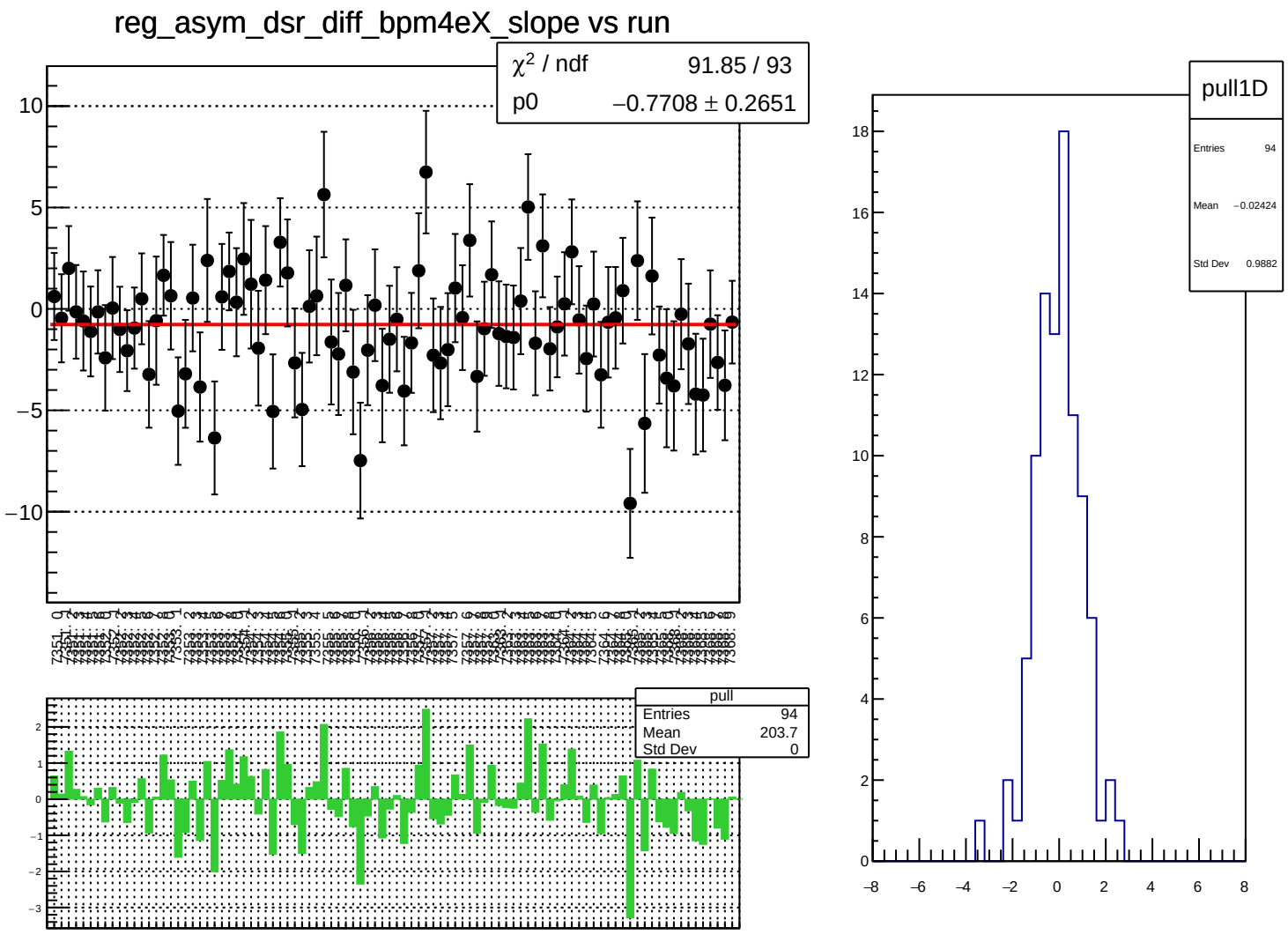

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 141.4 / 93
p0 −0.9291 ± 0.302
pull
Entries 94
Mean −472.9
Std Dev 0

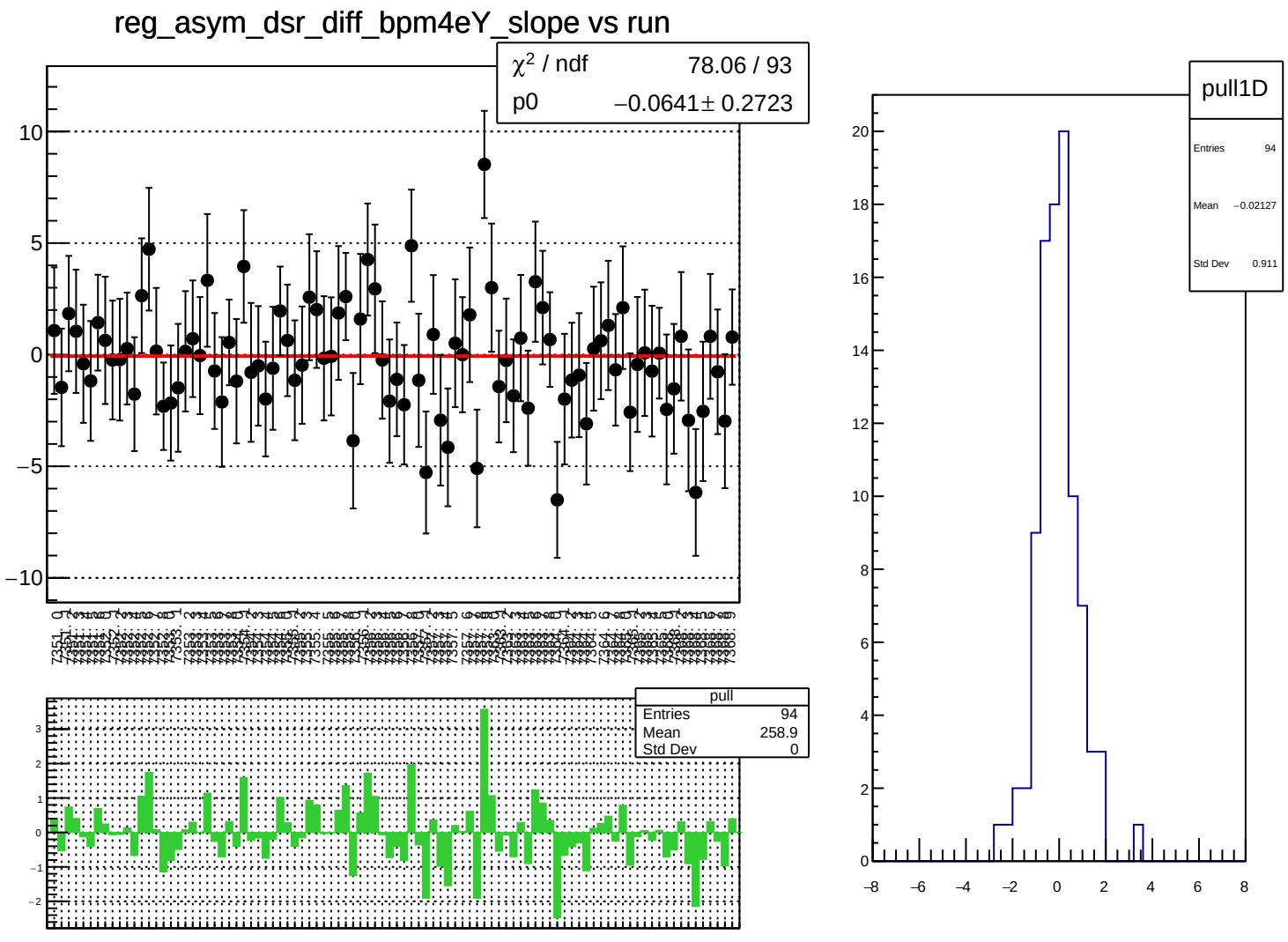

pull1D
Entries 94
Mean −0.003309
Std Dev 1.226

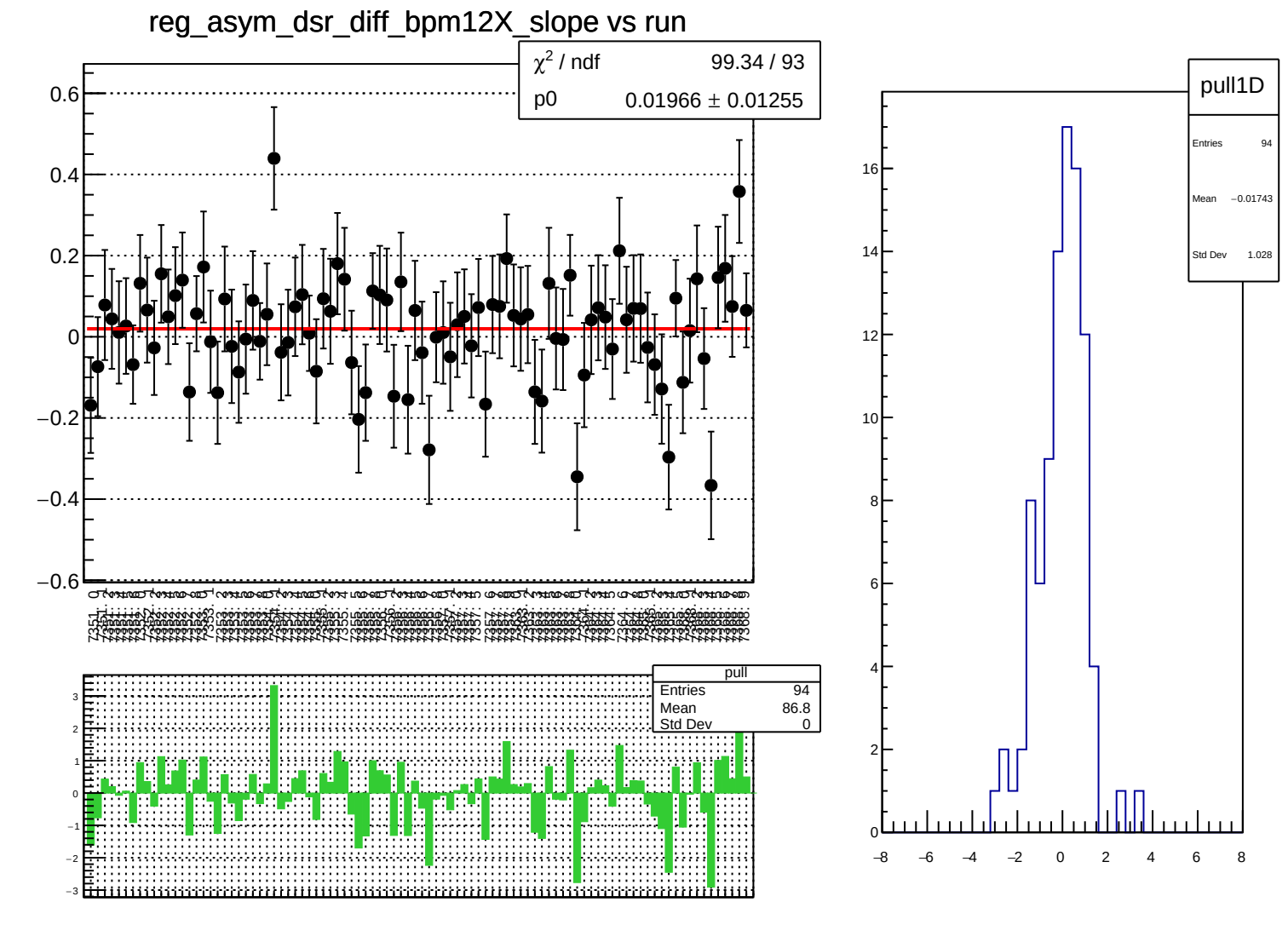

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 94.45 / 93
p0 0.001427 ± 0.01392
pull
Entries 94
Mean −150.5
Std Dev 0
pull1D
Entries 94
Mean 0.0162
Std Dev 1.002

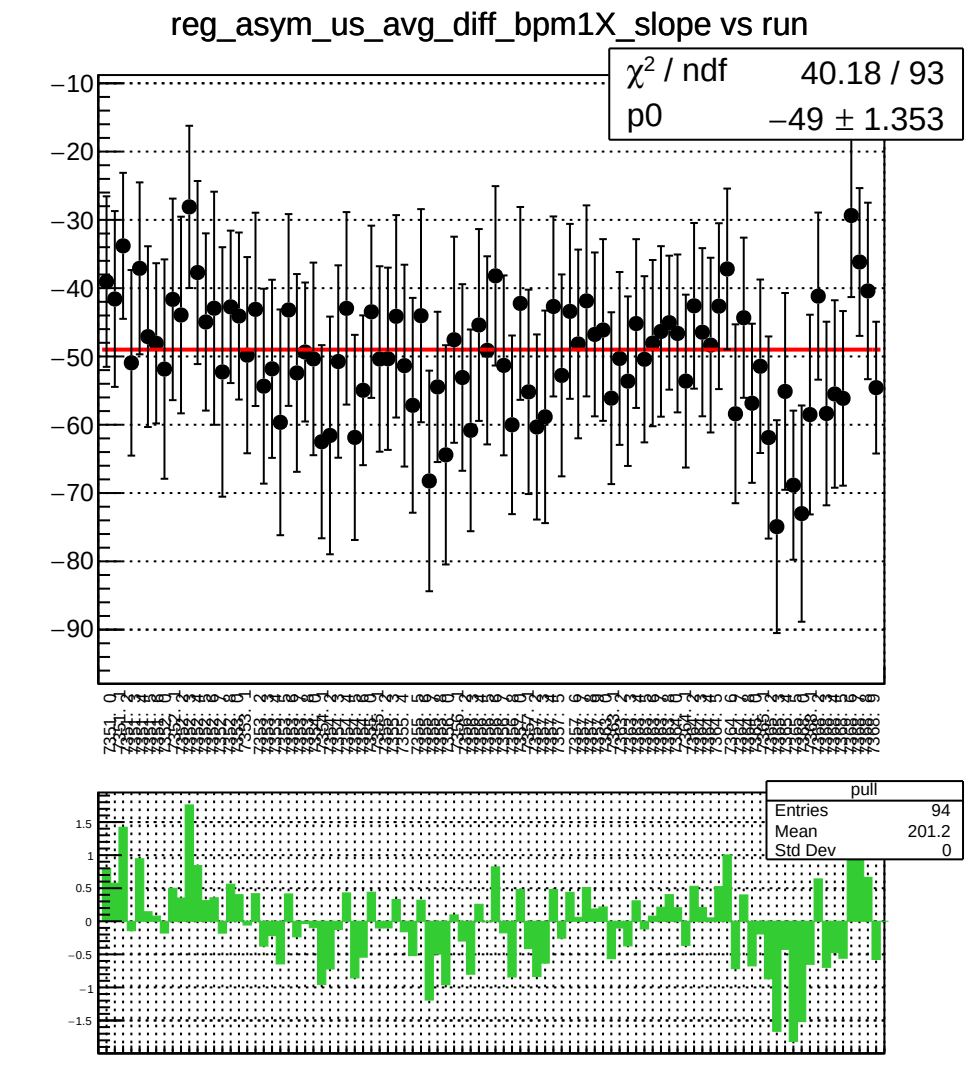

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 106.3 / 93
p0 0.6485 ± 0.267
pull
Entries 94
Mean 223.2
Std Dev 0
pull1D
Entries 94
Mean 0.01774
Std Dev 1.063

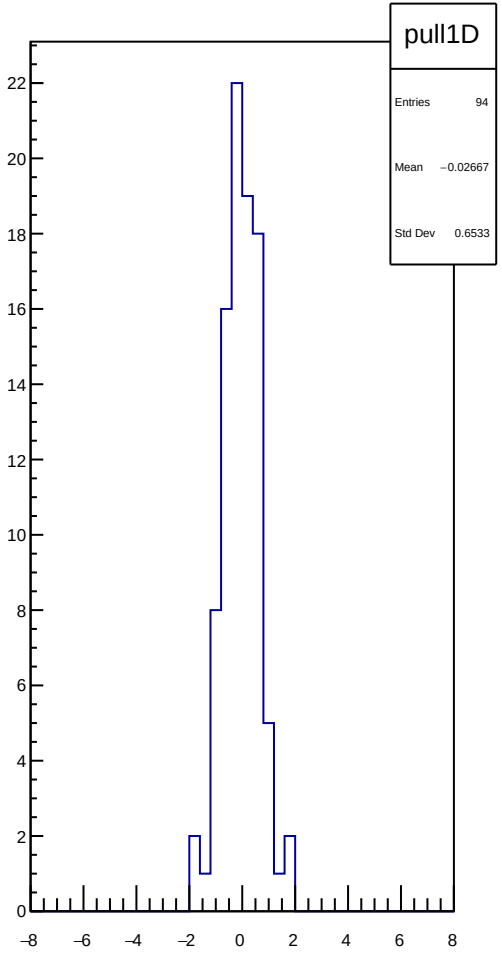

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 87.79 / 93
p0 0.1458 ± 0.2576
pull
Entries 94
Mean 281.4
Std Dev 0
pull1D
Entries 94
Mean 0.02066
Std Dev 0.9662

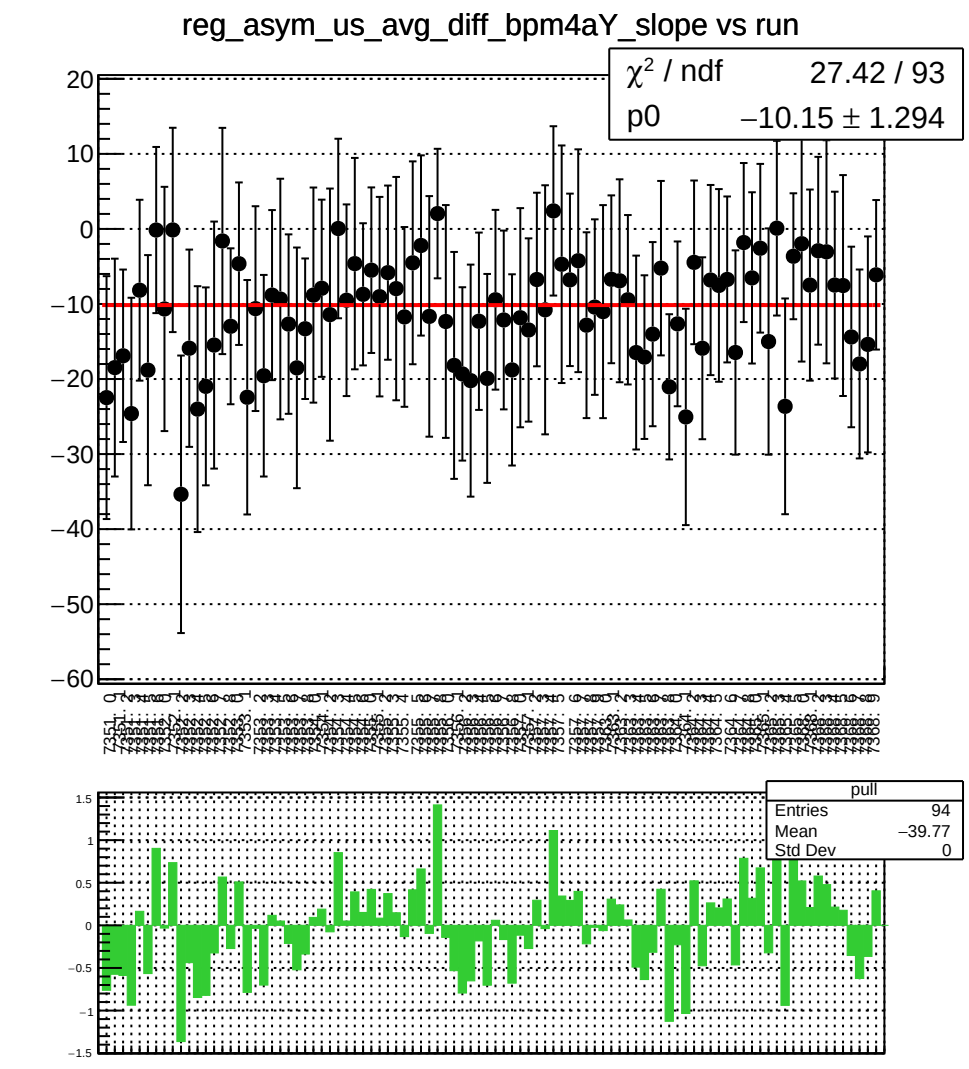

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 91.85 / 93
p0 −0.7708 ± 0.2651
pull
Entries 94
Mean 203.7
Std Dev 0
pull1D
Entries 94
Mean −0.02424
Std Dev 0.9882

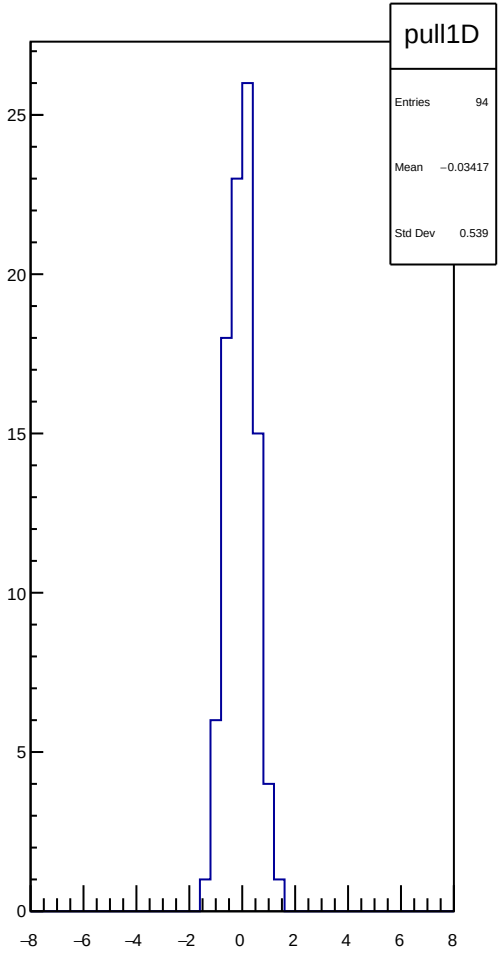

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 78.06 / 93
p0 −0.0641± 0.2723
pull
Entries 94
Mean 258.9
Std Dev 0
pull1D
Entries 94
Mean −0.02127
Std Dev 0.911

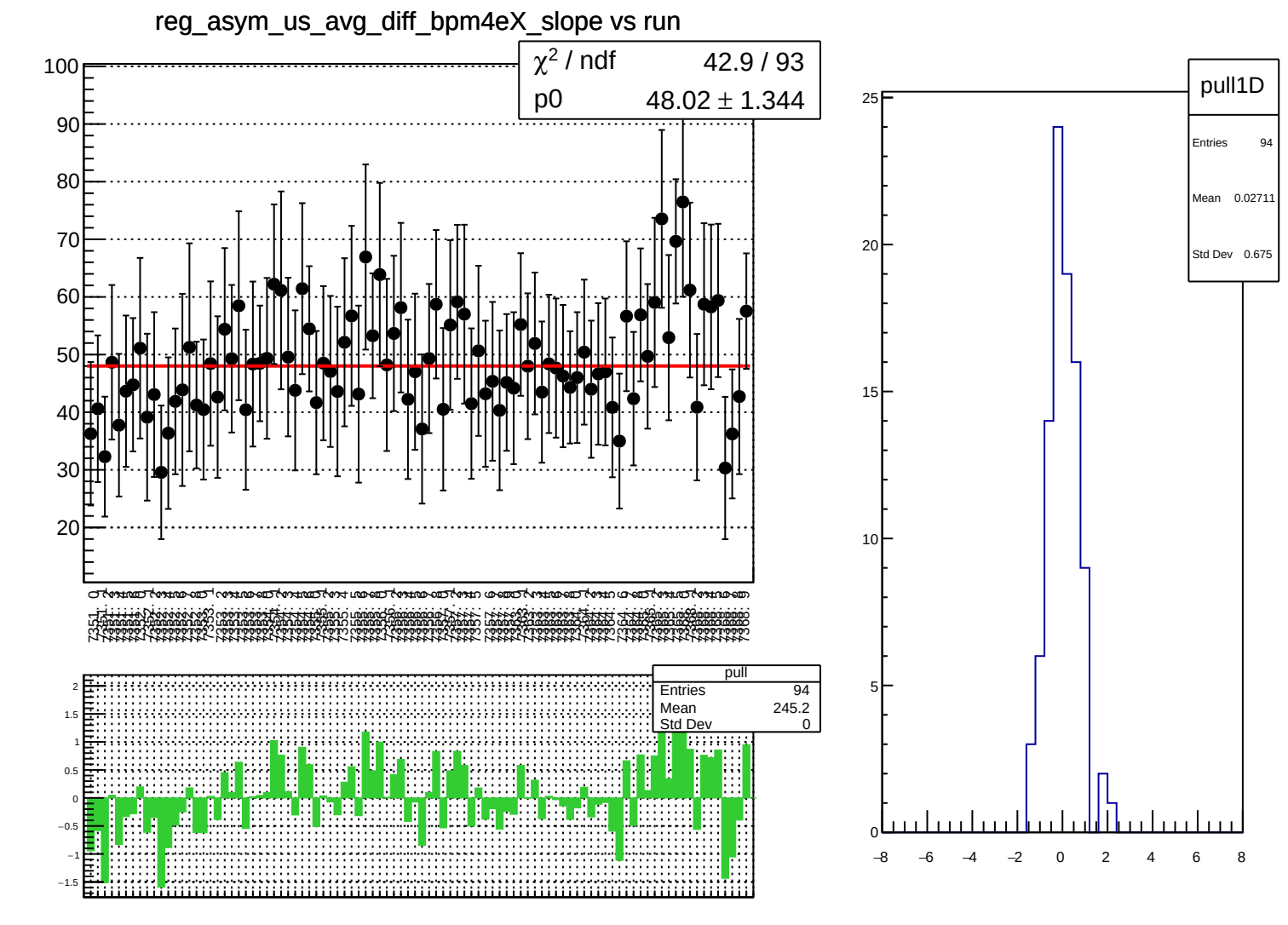

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 99.34 / 93
p0 0.01966 ± 0.01255
pull
Entries 94
Mean 86.8
Std Dev 0
pull1D
Entries 94
Mean −0.01743
Std Dev 1.028

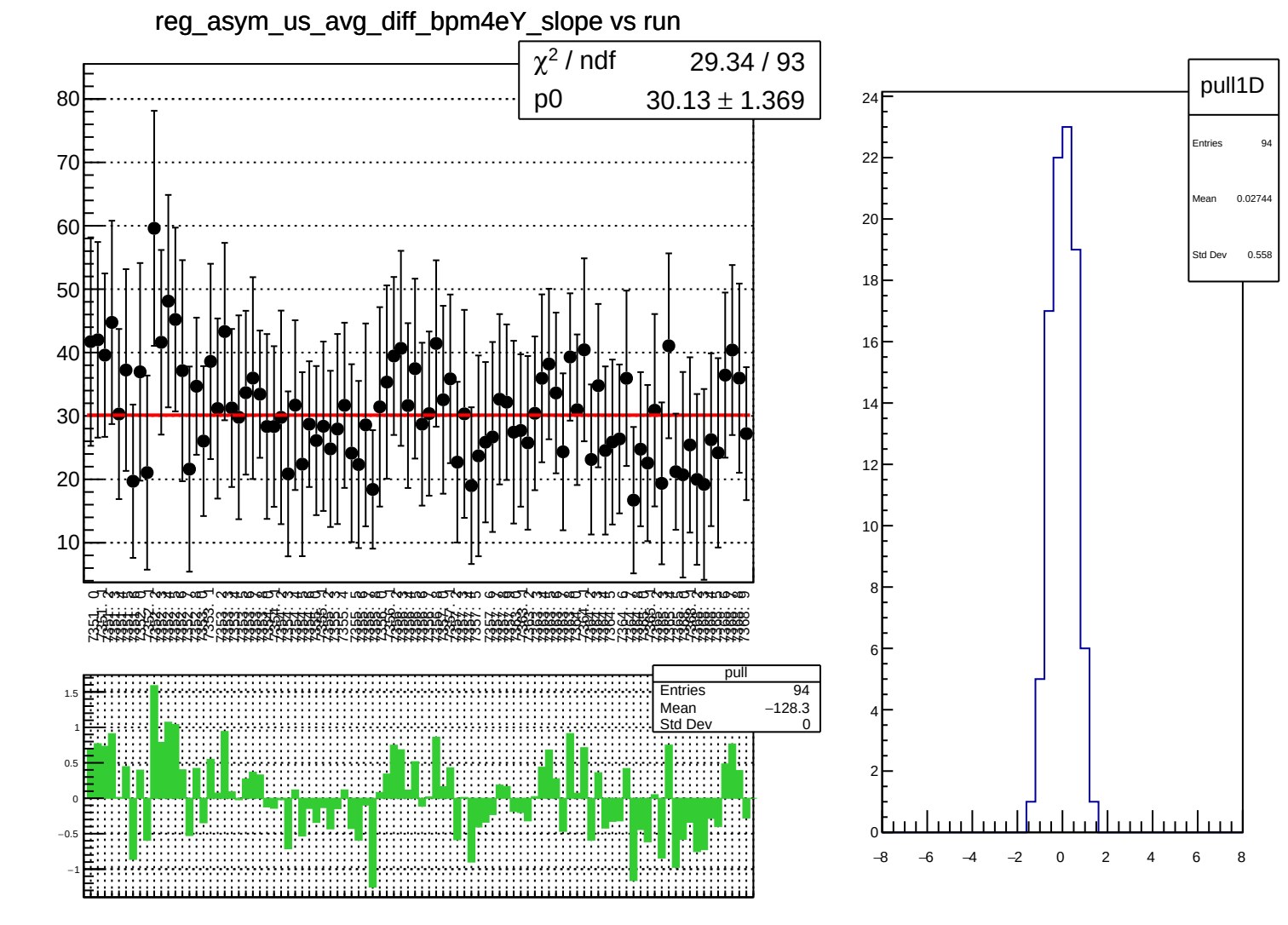

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 40.18 / 93
p0 −49 ± 1.353
pull
Entries 94
Mean 201.2
Std Dev 0

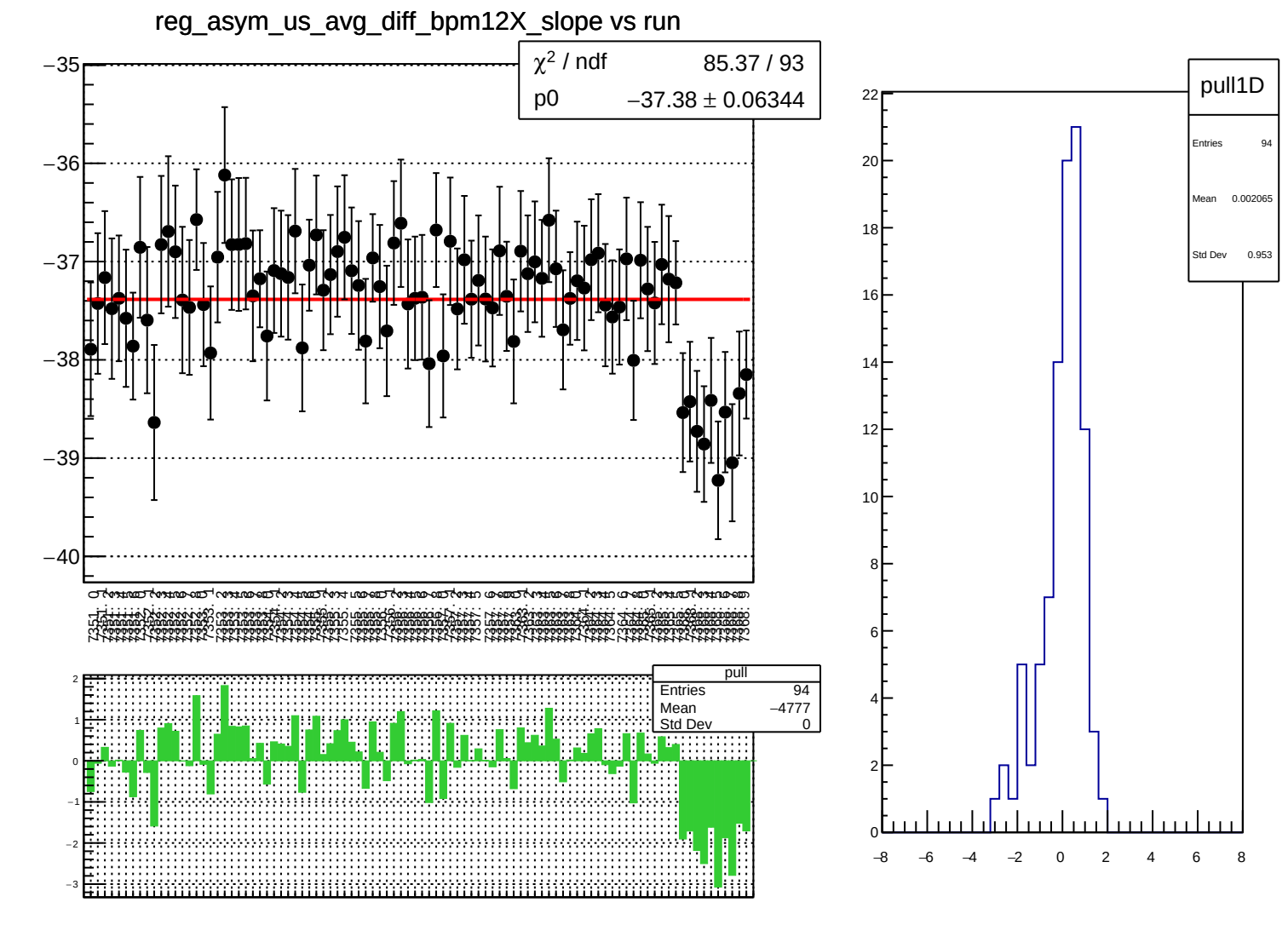

pull1D
Entries 94
Mean −0.02667
Std Dev 0.6533

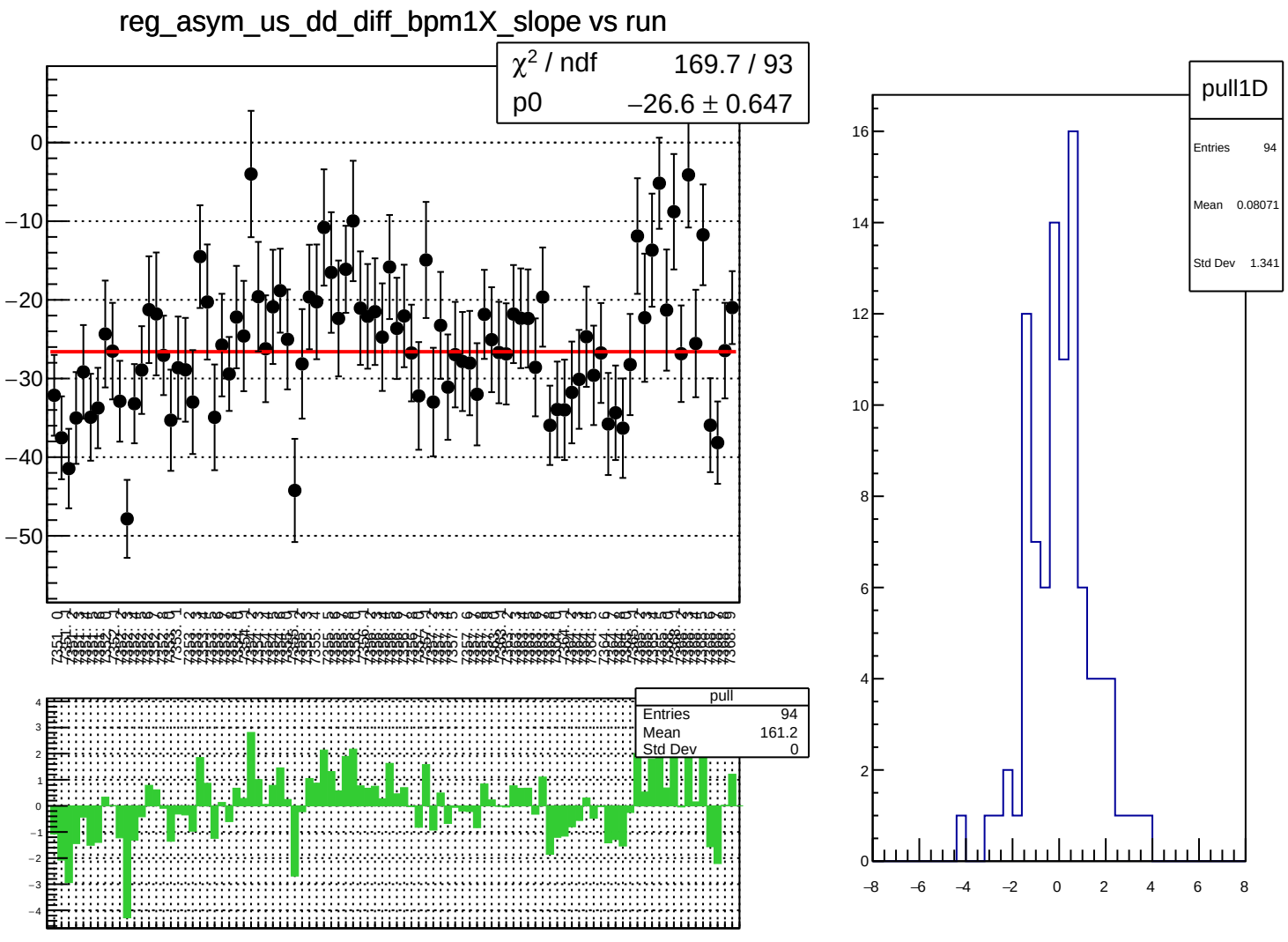

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 27.42 / 93
p0 −10.15 ± 1.294
pull
Entries 94
Mean −39.77
Std Dev 0

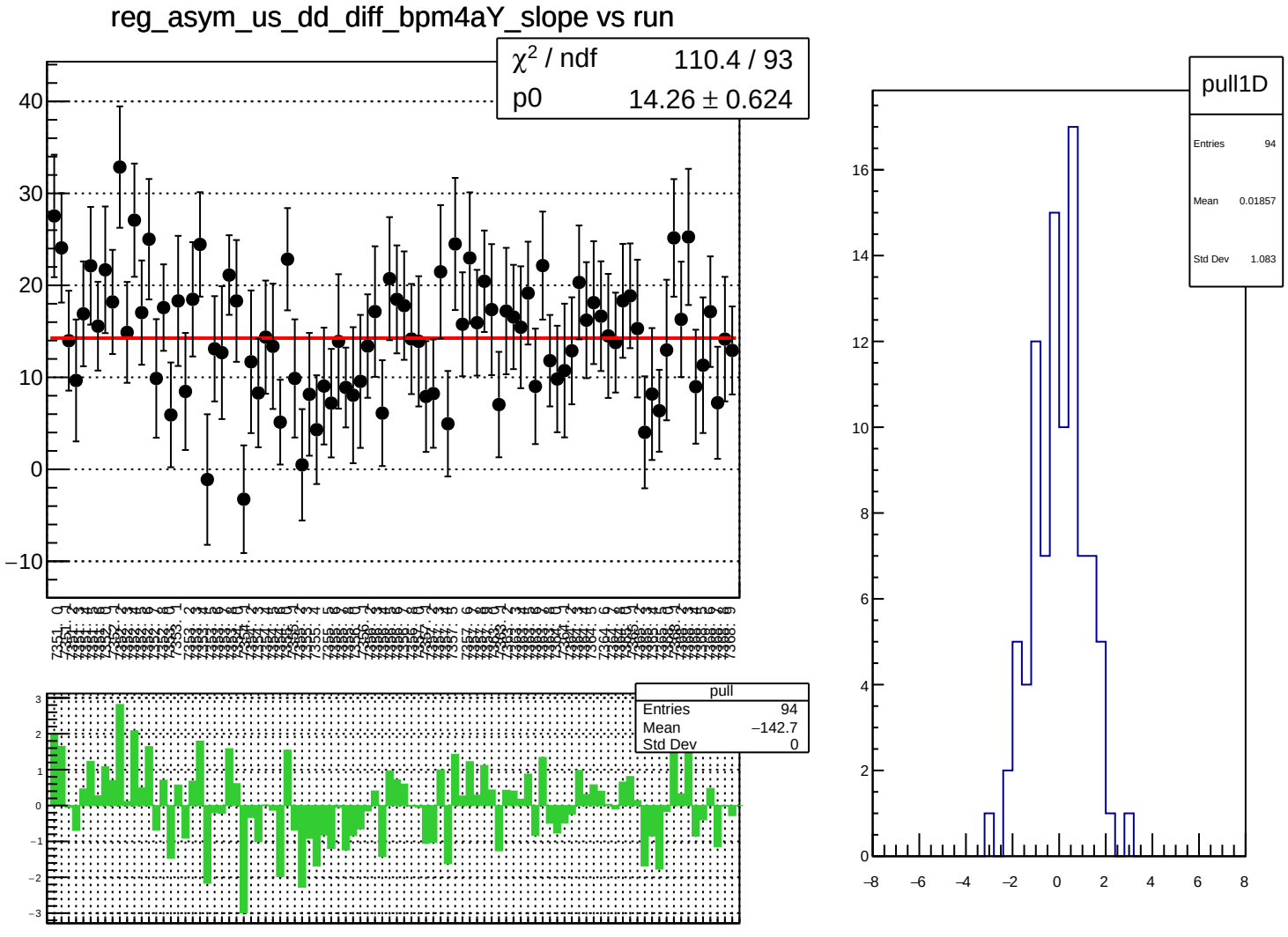

pull1D
Entries 94
Mean −0.03417
Std Dev 0.539

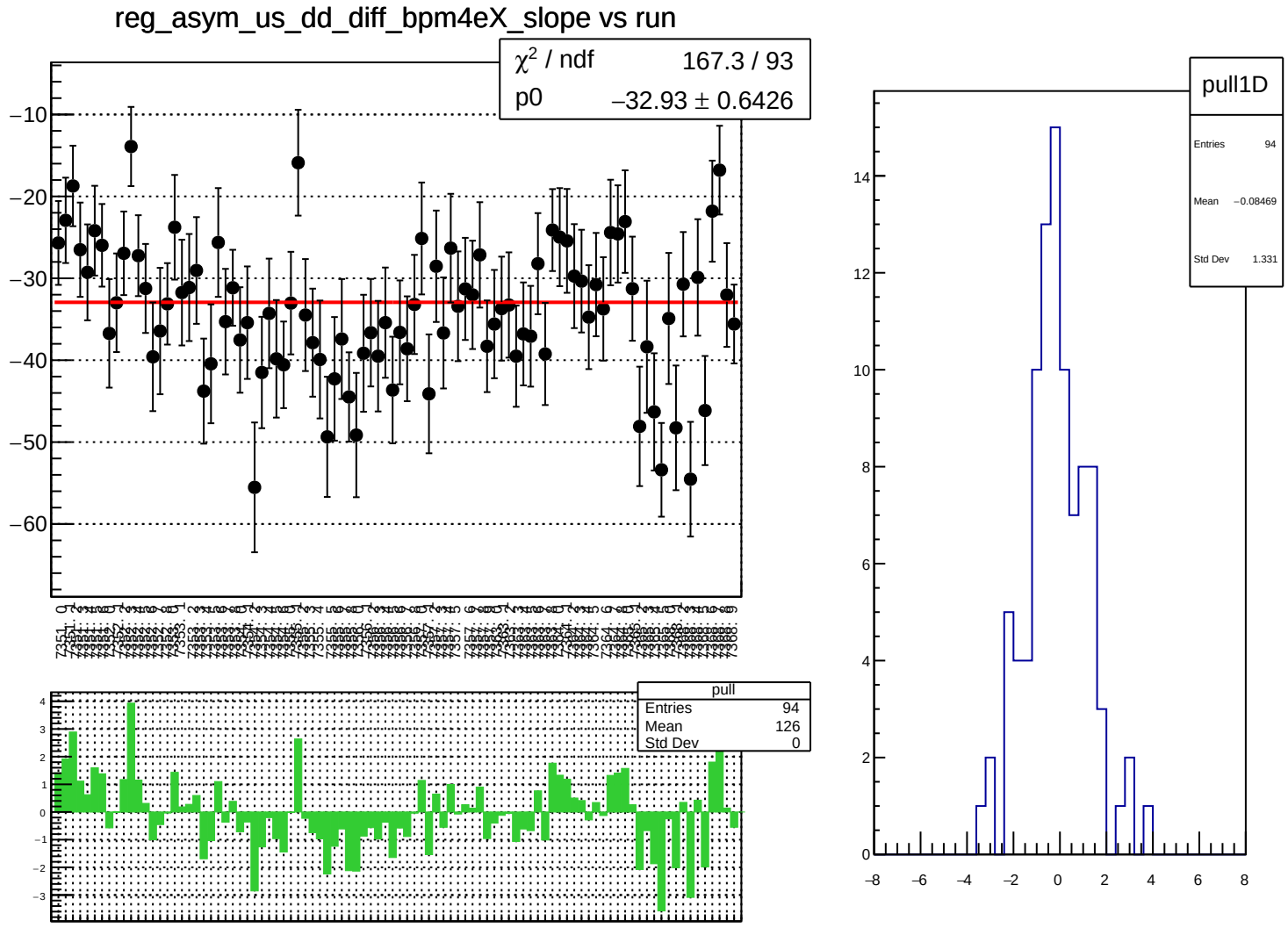

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 42.9 / 93
p0 48.02 ± 1.344
pull
Entries 94
Mean 245.2
Std Dev 0
pull1D
Entries 94
Mean 0.02711
Std Dev 0.675

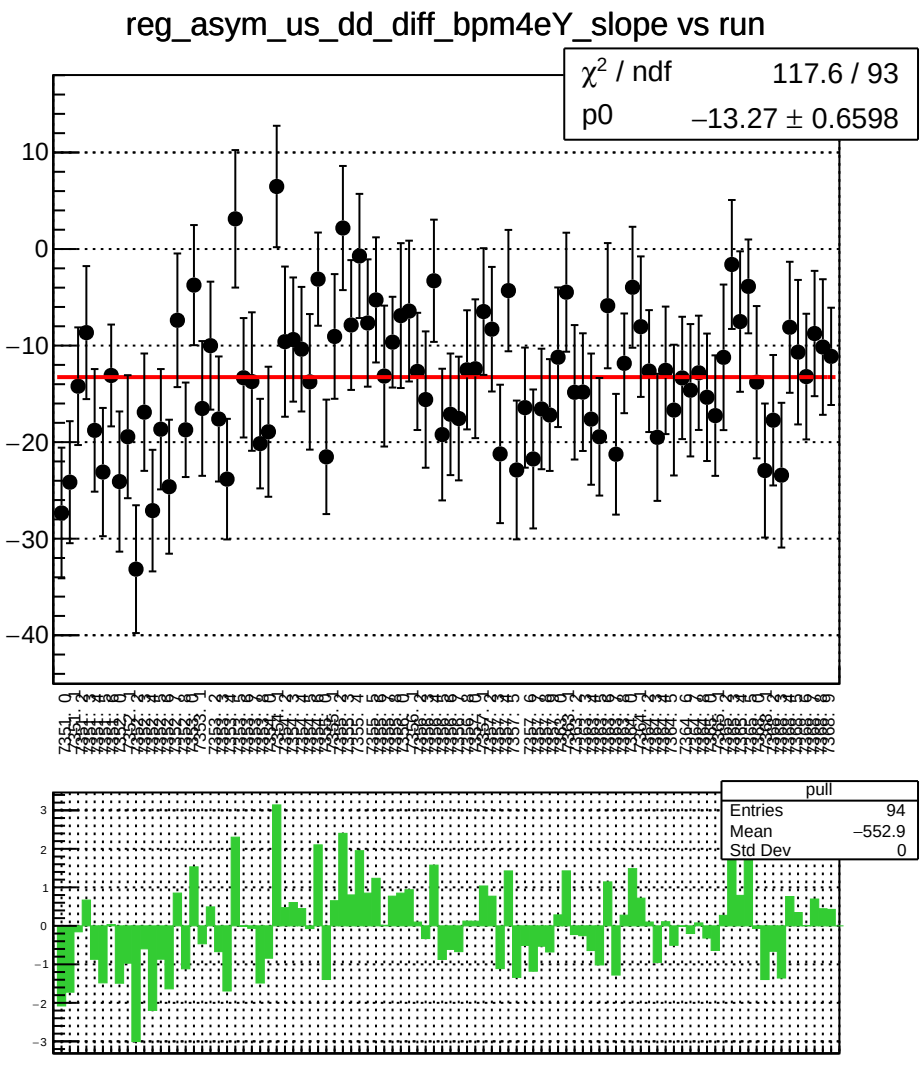

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 29.34 / 93
p0 30.13 ± 1.369
pull
Entries 94
Mean −128.3
Std Dev 0
pull1D
Entries 94
Mean 0.02744
Std Dev 0.558

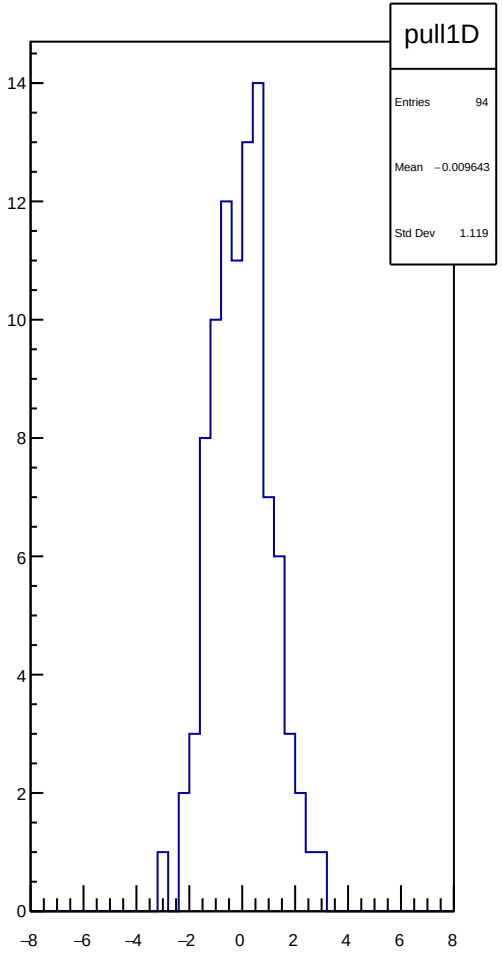

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 85.37 / 93
p0 −37.38 ± 0.06344
pull
Entries 94
Mean −4777
Std Dev 0
pull1D
Entries 94
Mean 0.002065
Std Dev 0.953

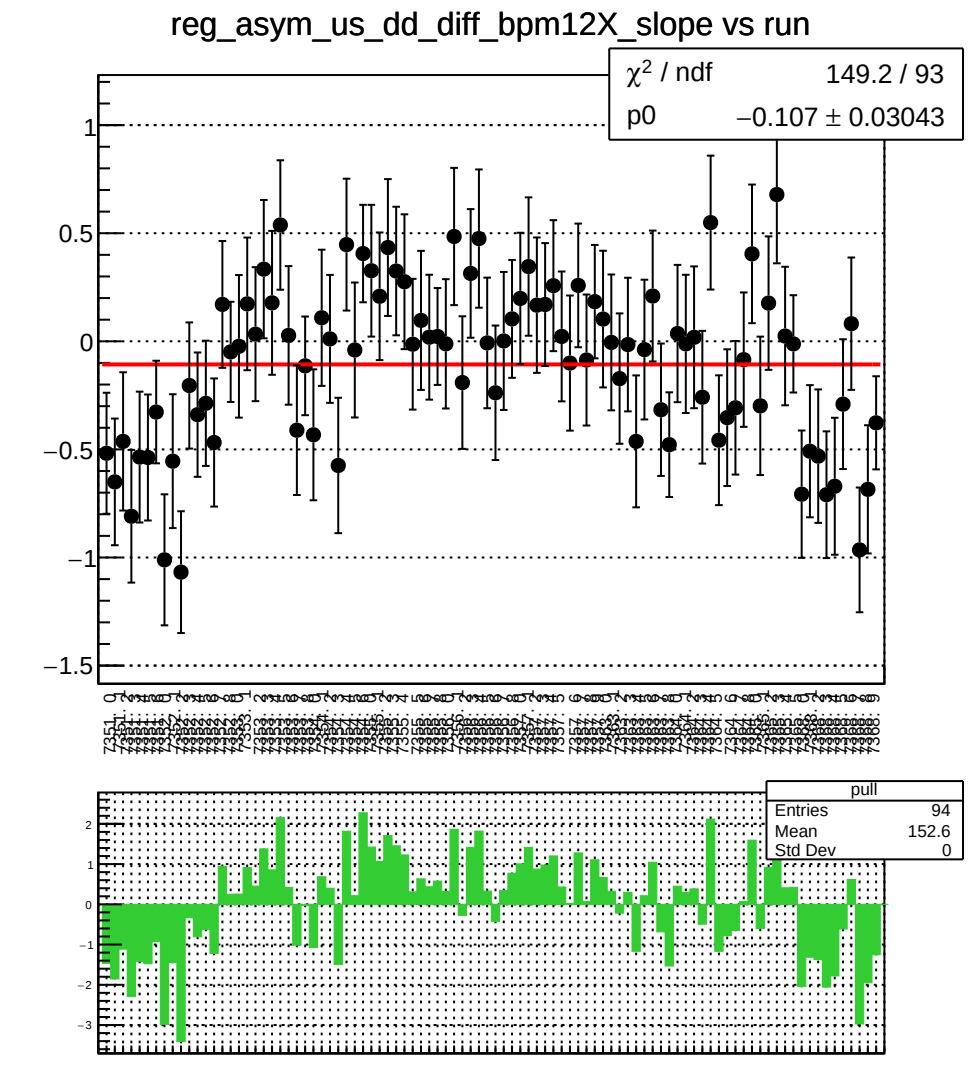

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 169.7 / 93
p0 −26.6 ± 0.647
0
−10
−20
−30
−40
−50
pull
Entries 94
Mean 161.2
Std Dev 0
pull1D
Entries 94
Mean 0.08071
Std Dev 1.341
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

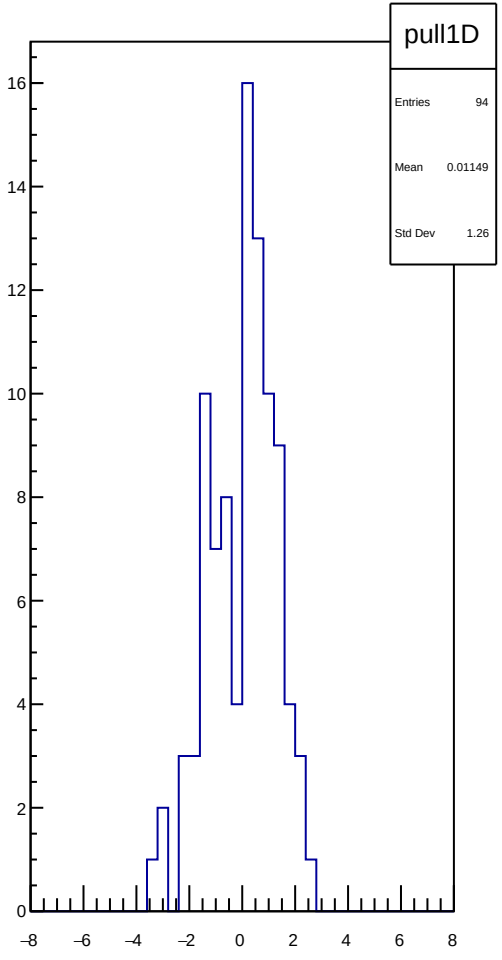

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 110.4 / 93
p0 14.26 ± 0.624
pull
Entries 94
Mean −142.7
Std Dev 0
pull1D
Entries 94
Mean 0.01857
Std Dev 1.083

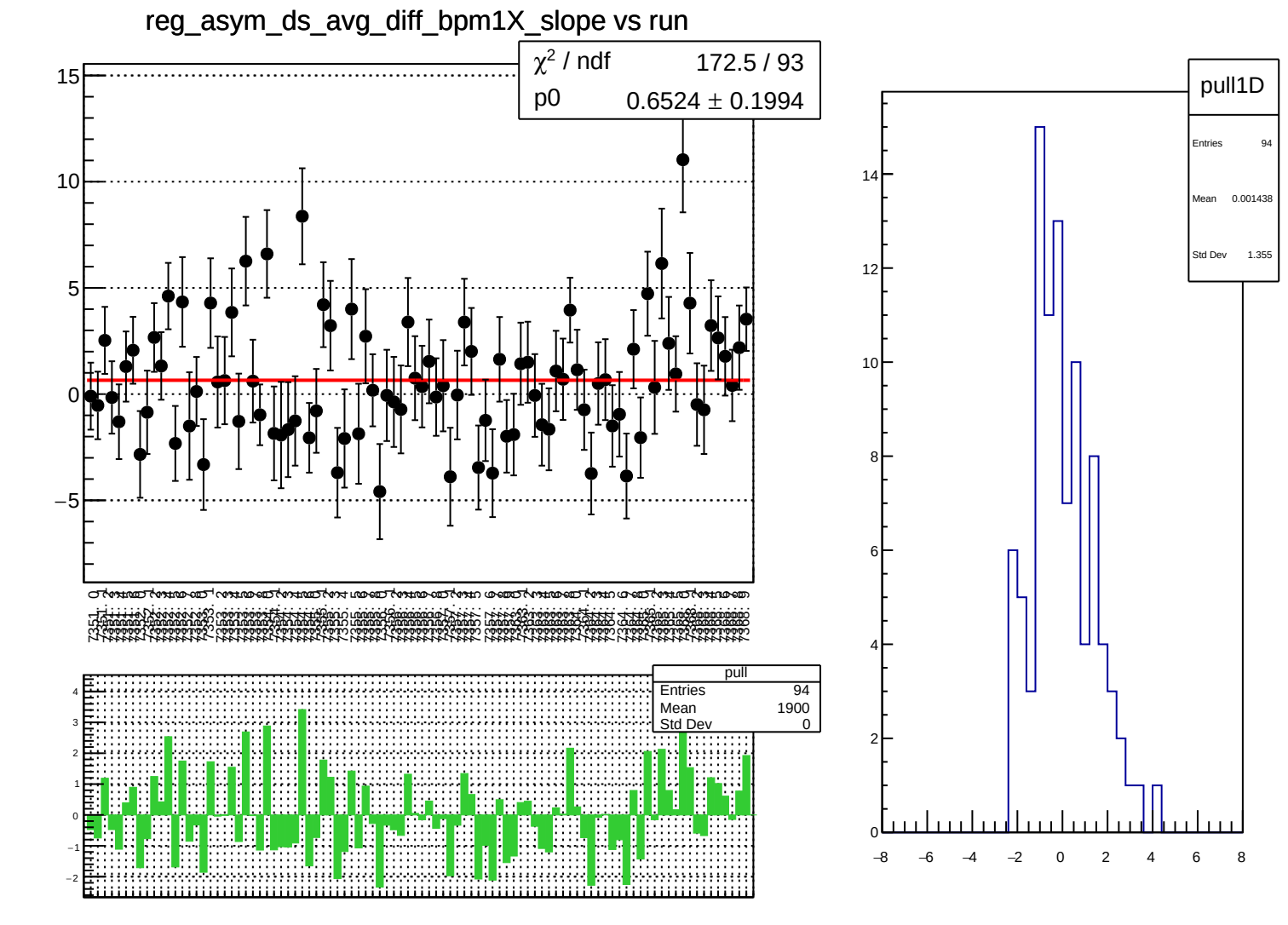

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 167.3 / 93
p0 −32.93 ± 0.6426
pull
Entries 94
Mean 126
Std Dev 0
pull1D
Entries 94
Mean −0.08469
Std Dev 1.331

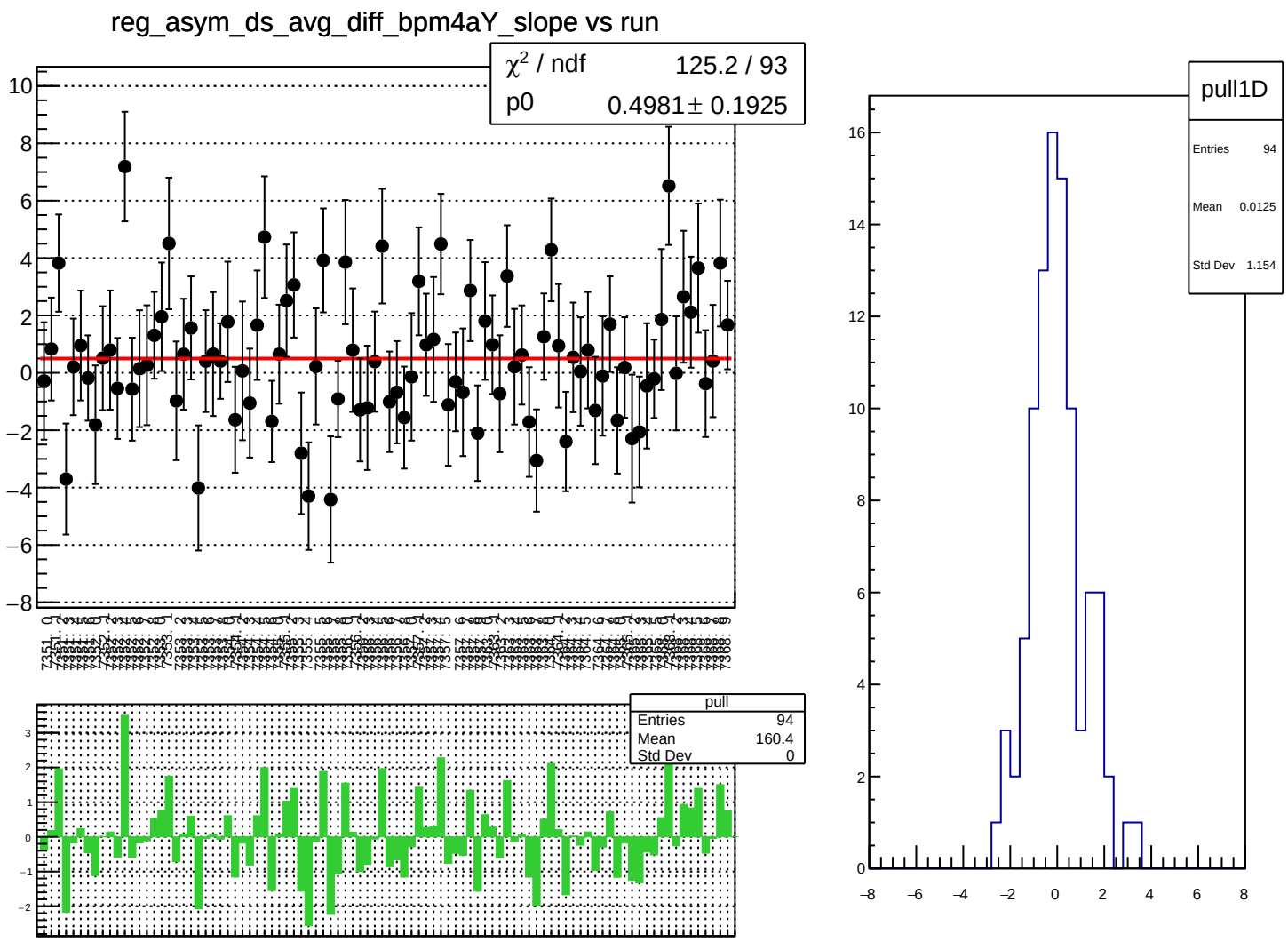

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 117.6 / 93
p0 −13.27 ± 0.6598
pull
Entries 94
Mean −552.9
Std Dev 0

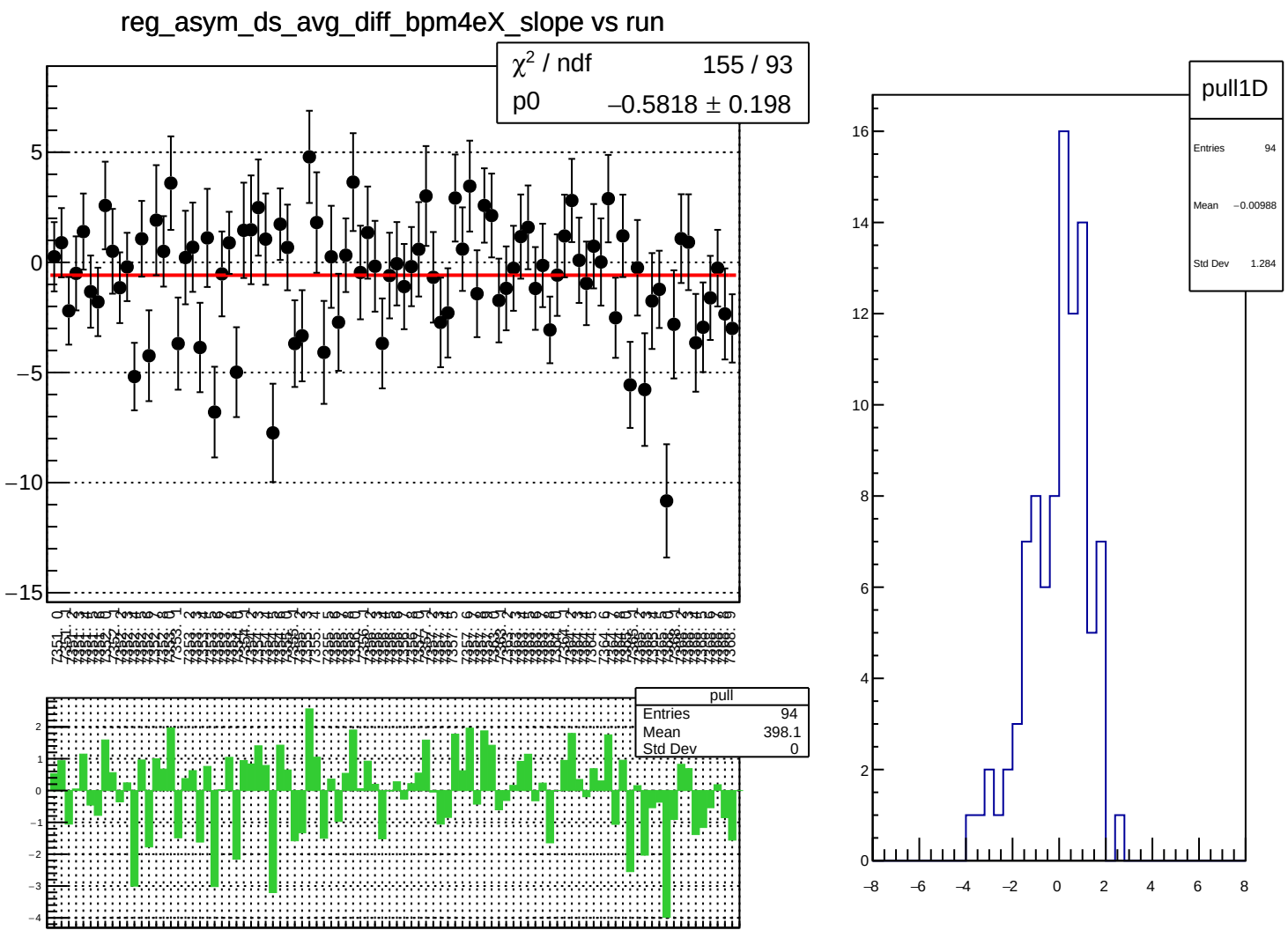

pull1D
Entries 94
Mean −0.009643
Std Dev 1.119

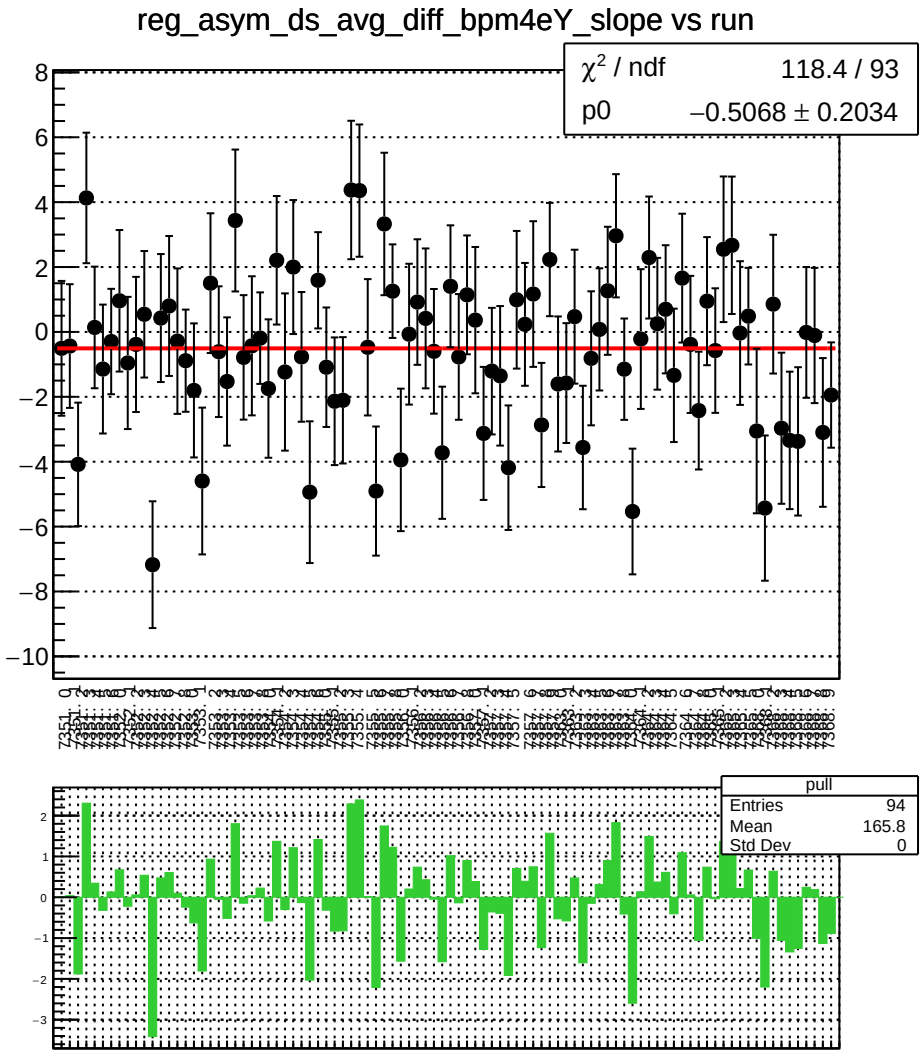

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 149.2 / 93
p0 −0.107 ± 0.03043
pull
Entries 94
Mean 152.6
Std Dev 0

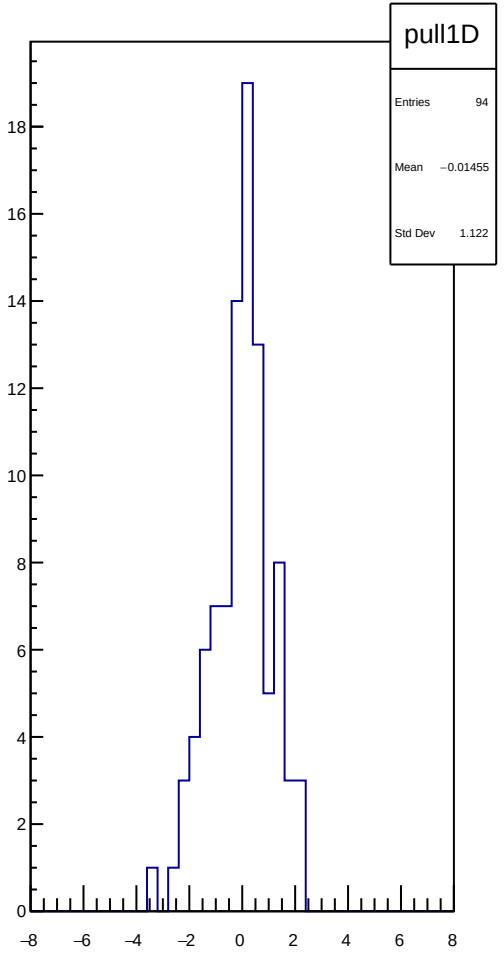

pull1D
Entries 94
Mean 0.01149
Std Dev 1.26

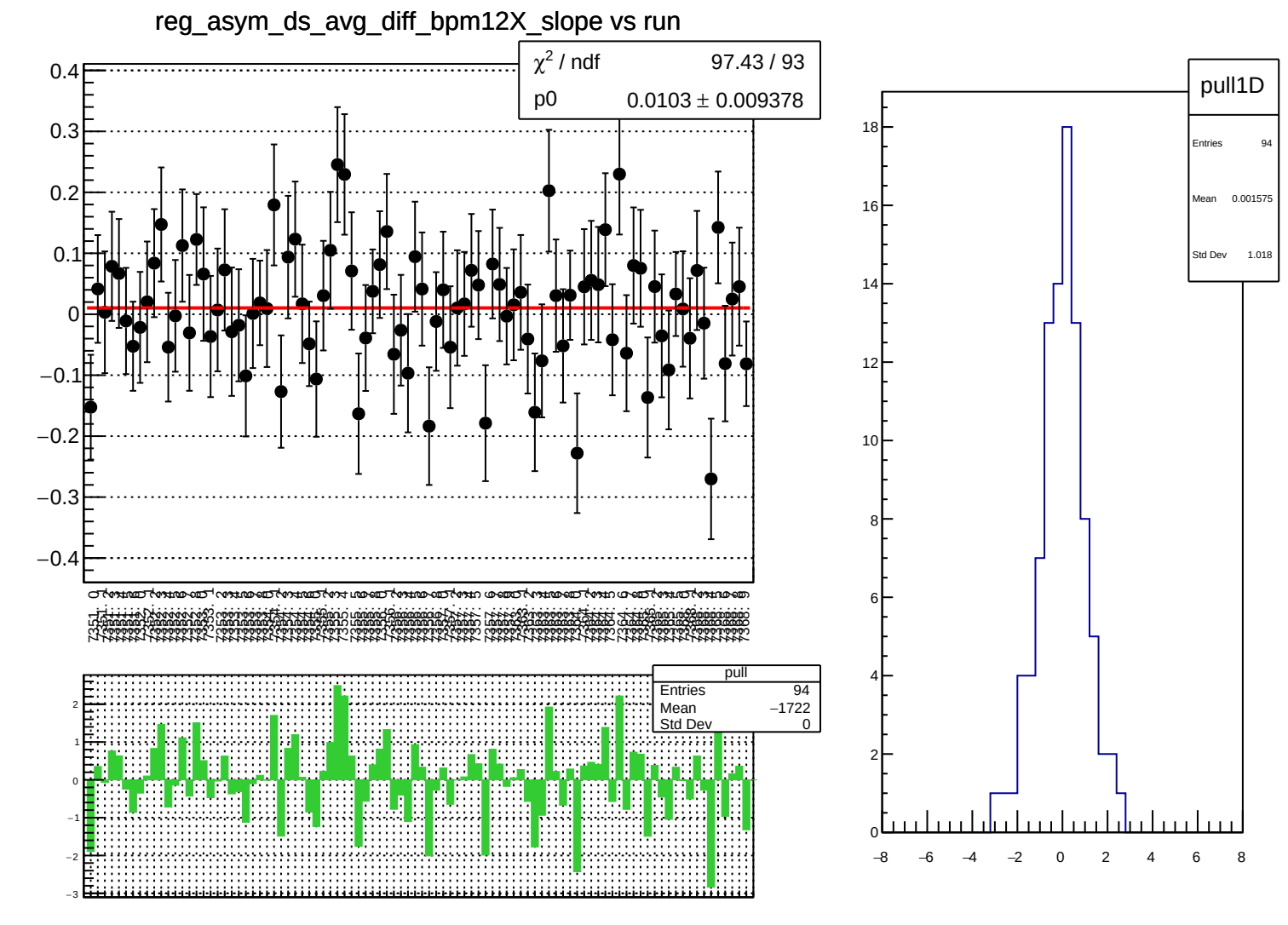

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 172.5 / 93
p0 0.6524 ± 0.1994
pull
Entries 94
Mean 1900
Std Dev 0
pull1D
Entries 94
Mean 0.001438
Std Dev 1.355

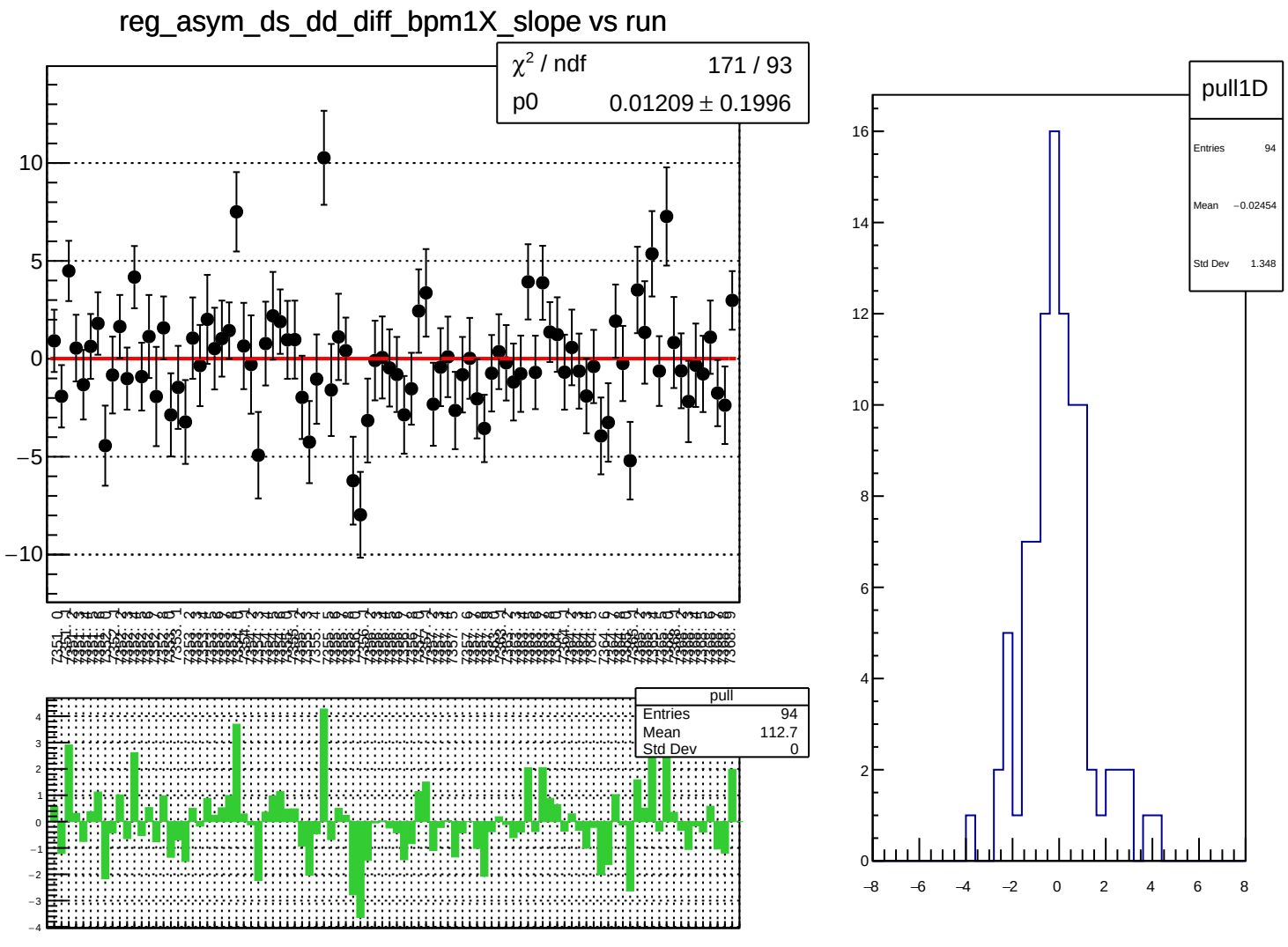

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 125.2 / 93
p0 0.4981 ± 0.1925
pull
Entries 94
Mean 160.4
Std Dev 0
pull1D
Entries 94
Mean 0.0125
Std Dev 1.154

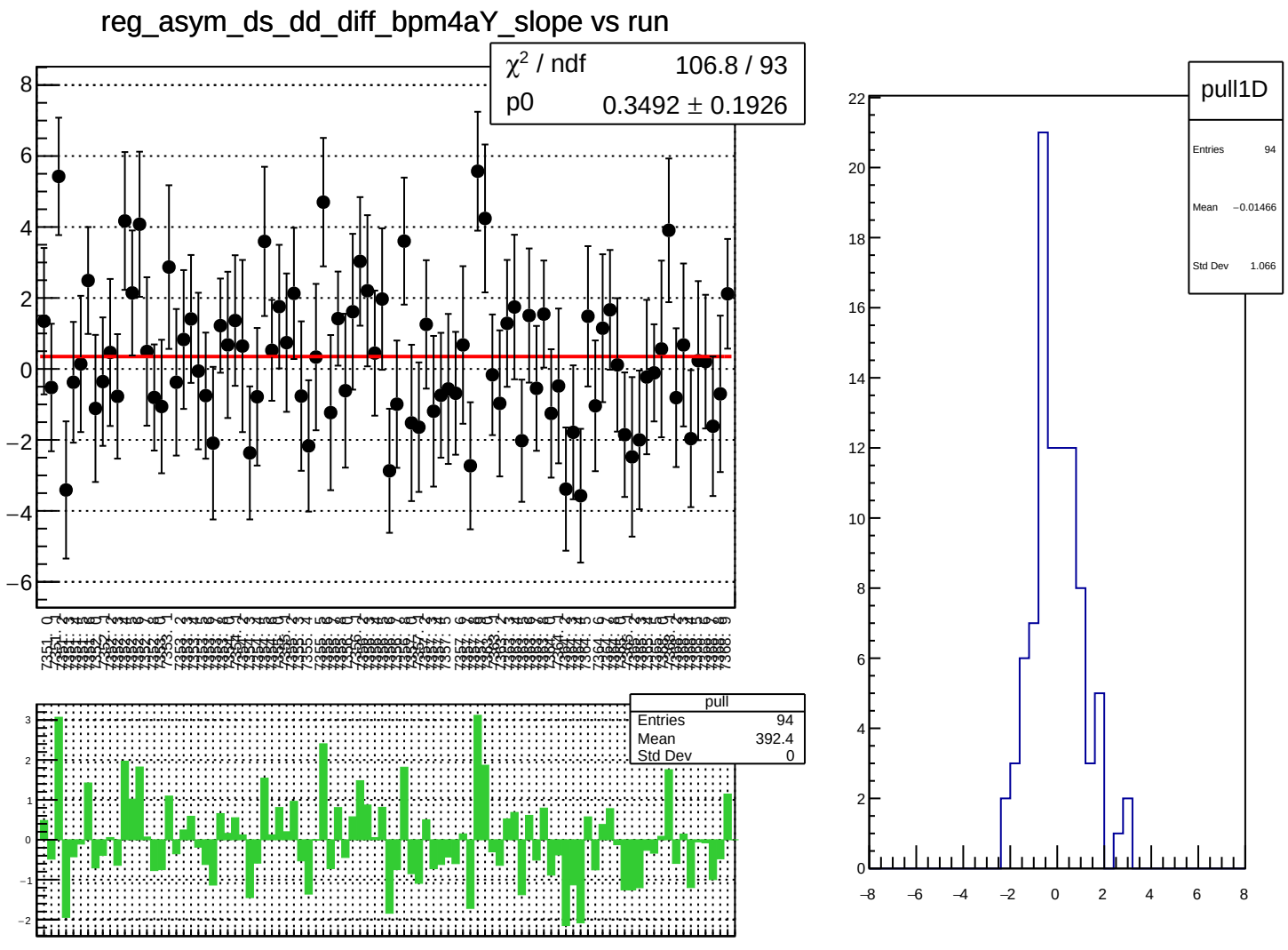

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 155 / 93
p0 −0.5818 ± 0.198
pull
Entries 94
Mean 398.1
Std Dev 0
pull1D
Entries 94
Mean −0.00988
Std Dev 1.284

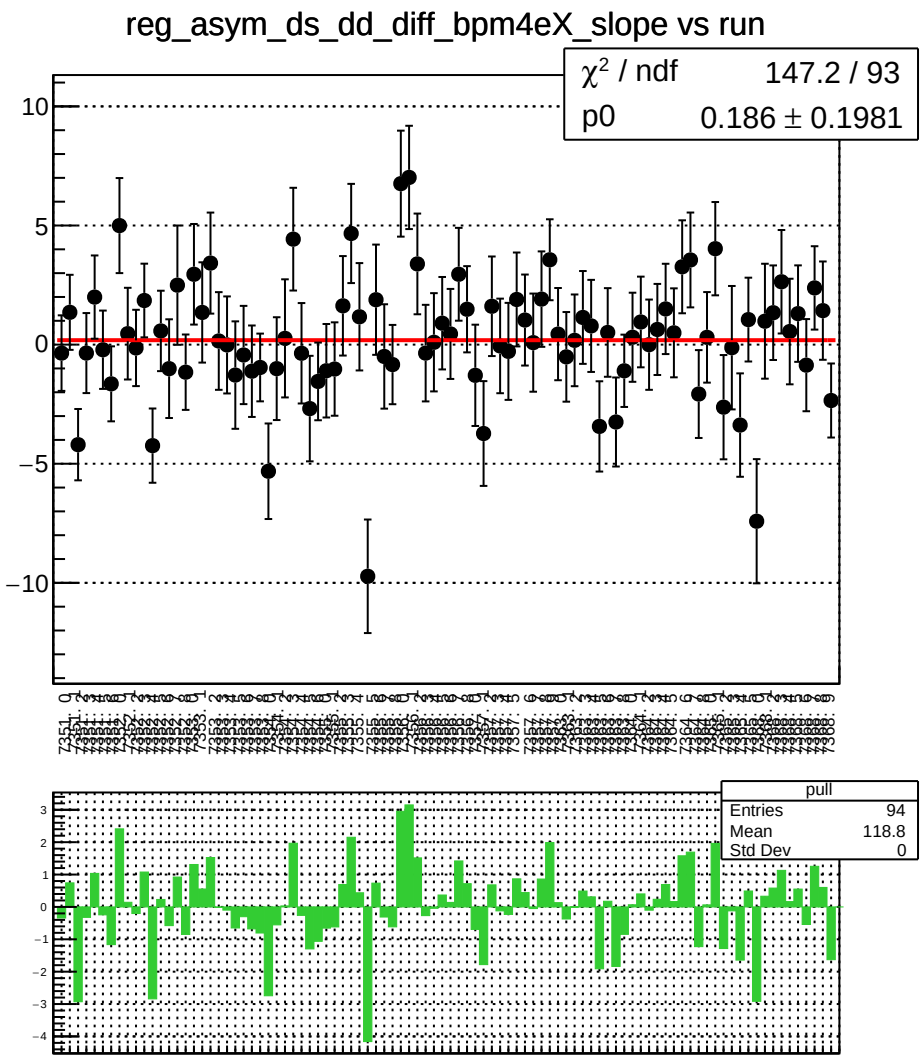

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 118.4 / 93
p0 −0.5068 ± 0.2034
pull
Entries 94
Mean 165.8
Std Dev 0

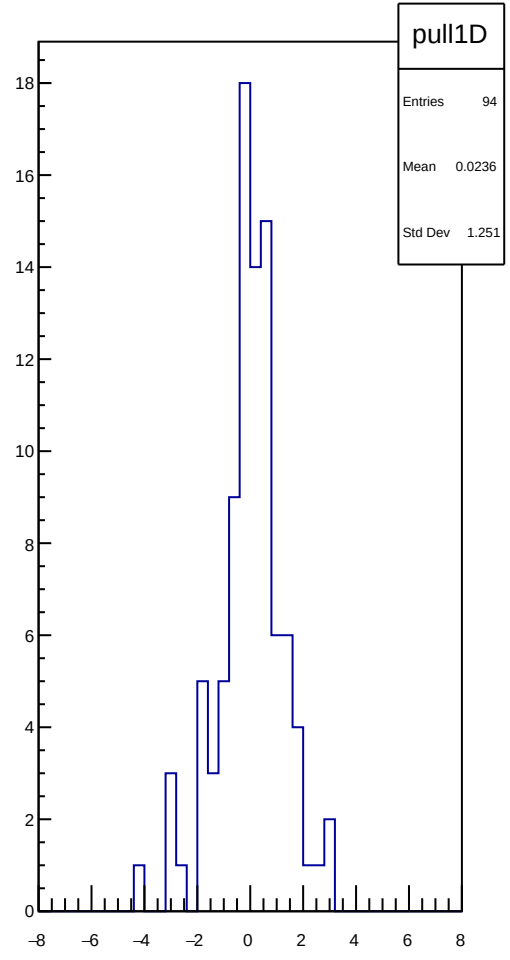

pull1D
Entries 94
Mean −0.01455
Std Dev 1.122

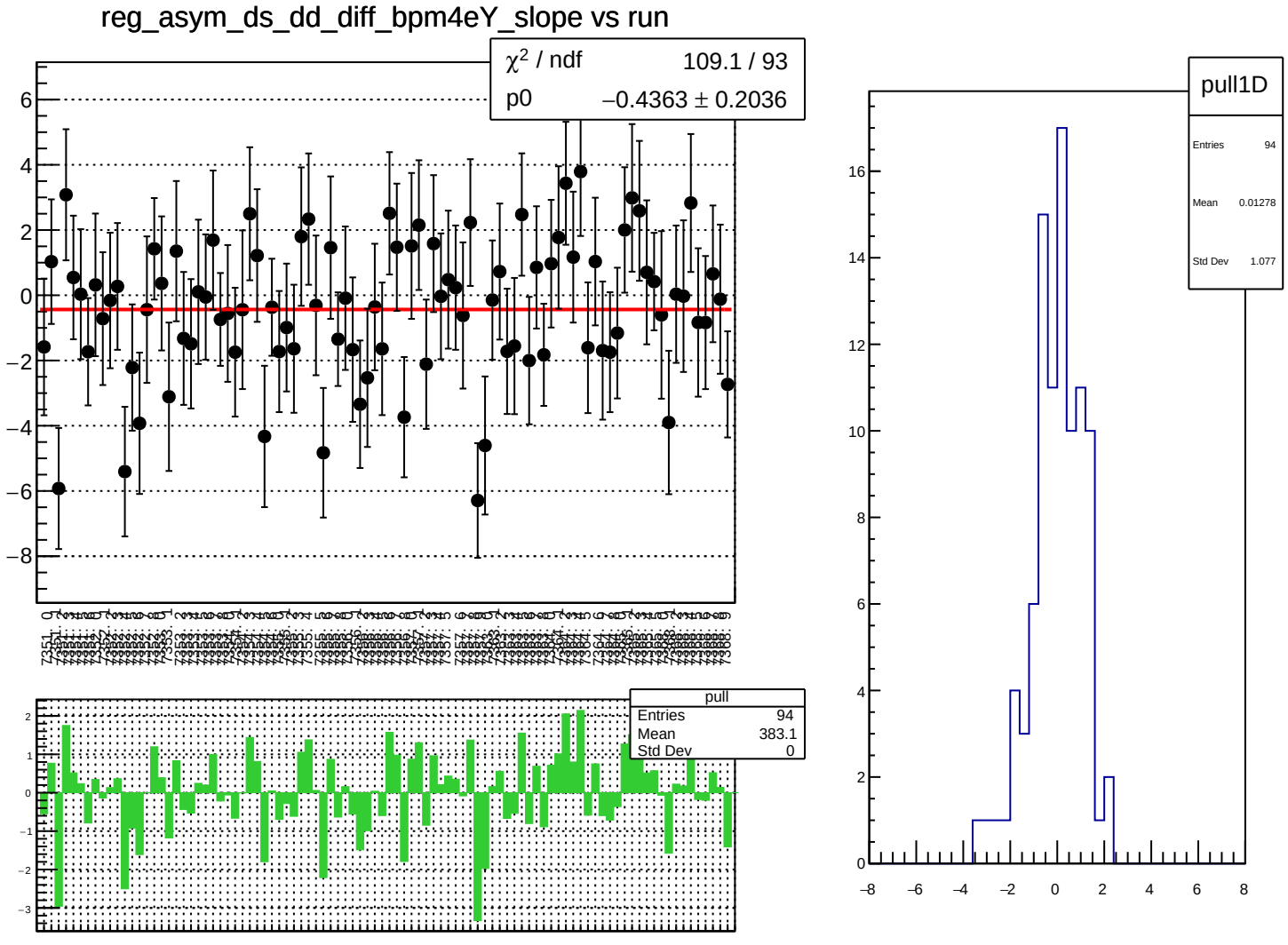

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 97.43 / 93
p0 0.0103 ± 0.009378
pull
Entries 94
Mean −1722
Std Dev 0
pull1D
Entries 94
Mean 0.001575
Std Dev 1.018

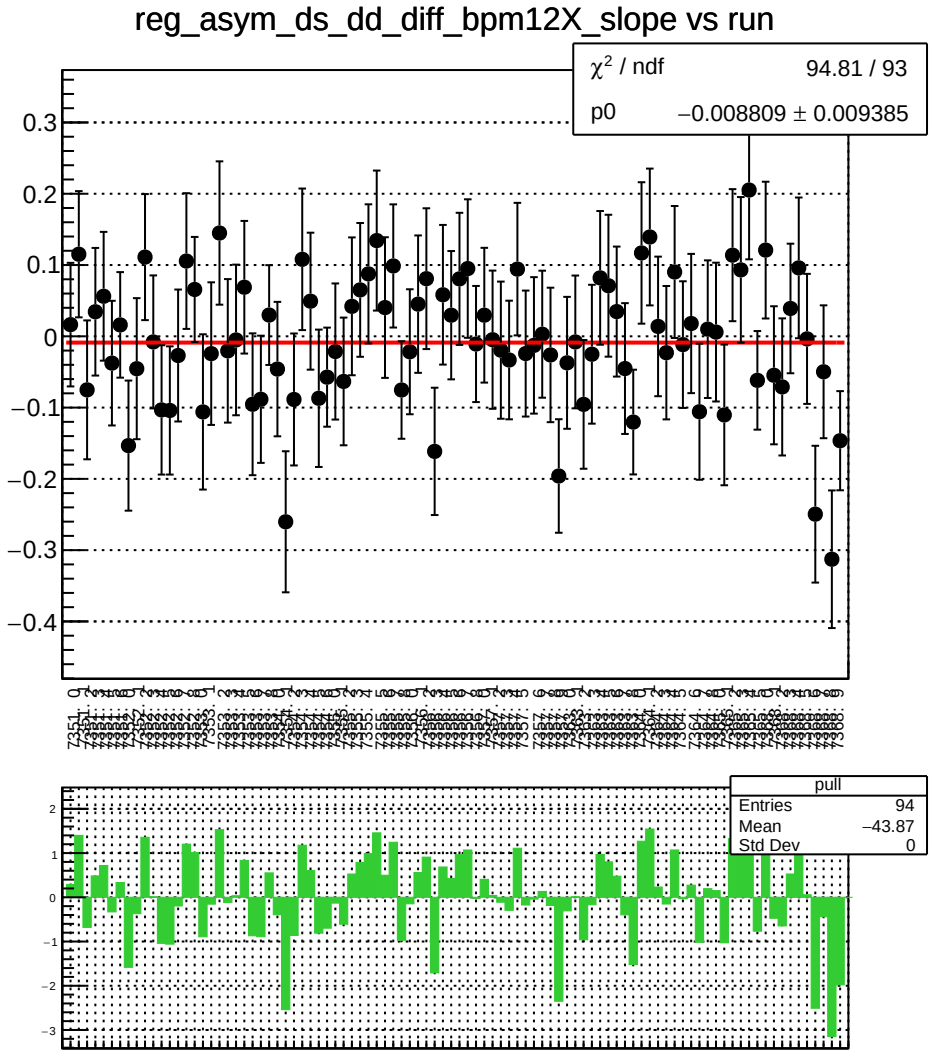

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 171 / 93
p0 0.01209 ± 0.1996
pull
Entries 94
Mean 112.7
Std Dev 0
pull1D
Entries 94
Mean −0.02454
Std Dev 1.348

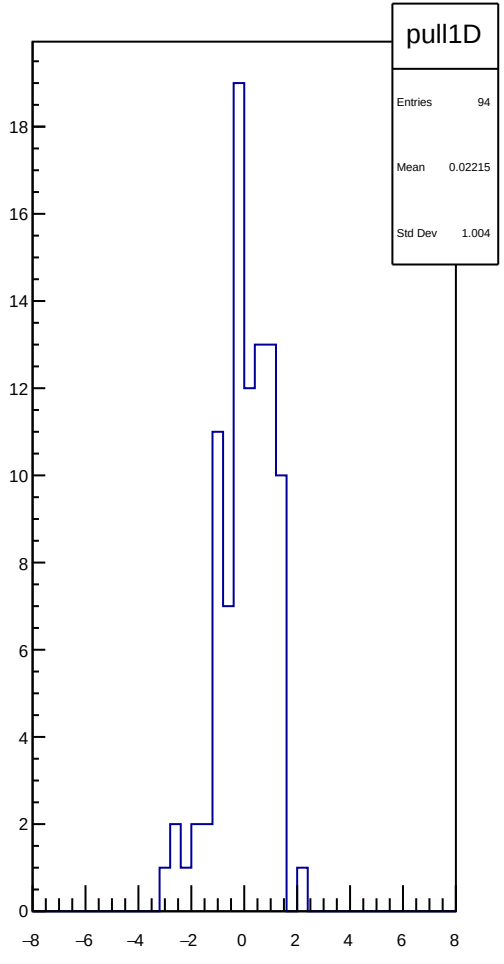

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 106.8 / 93
p0 0.3492 ± 0.1926
pull
Entries 94
Mean 392.4
Std Dev 0
pull1D
Entries 94
Mean −0.01466
Std Dev 1.066

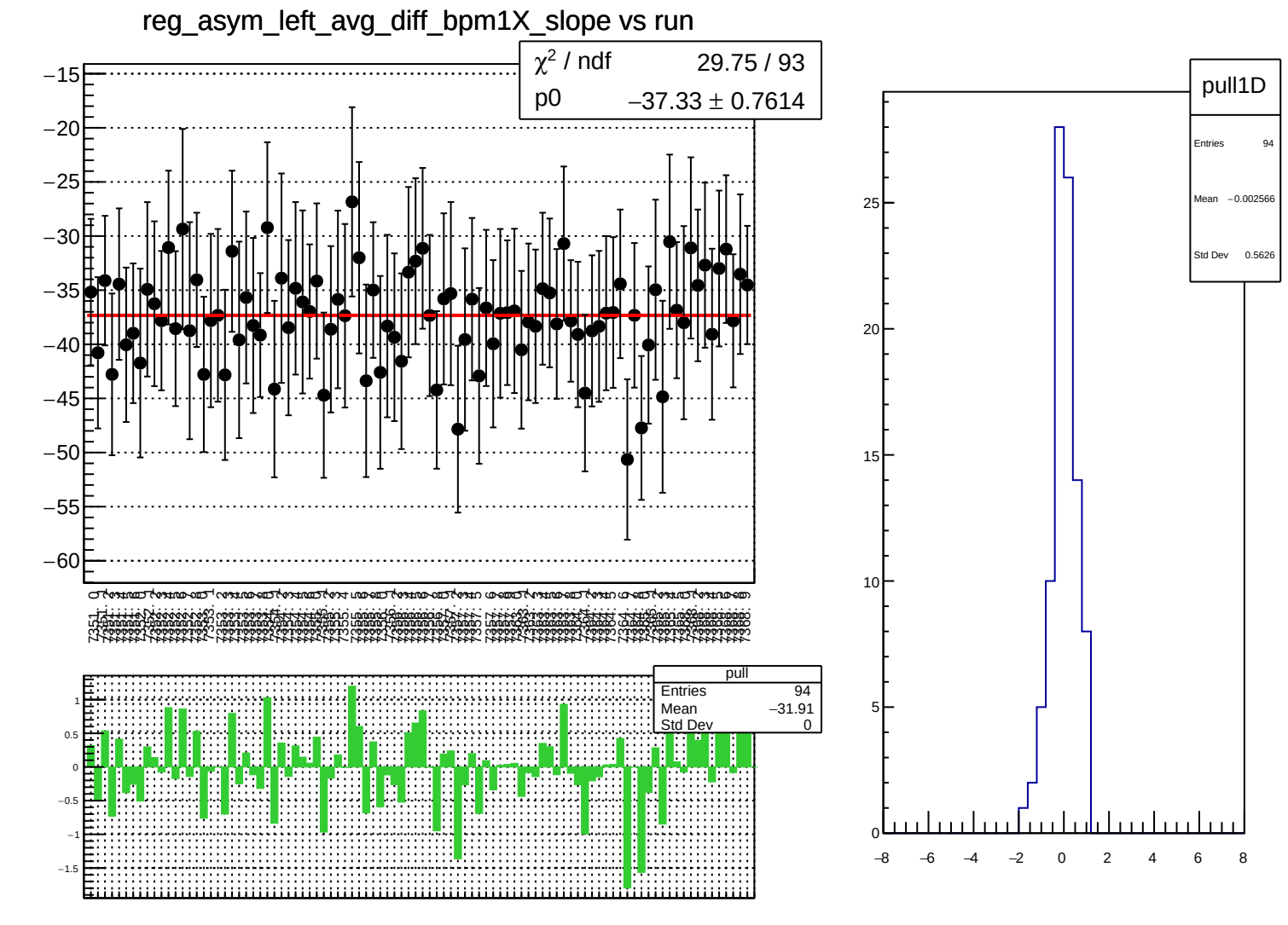

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 147.2 / 93
p0 0.186 ± 0.1981
pull
Entries 94
Mean 118.8
Std Dev 0

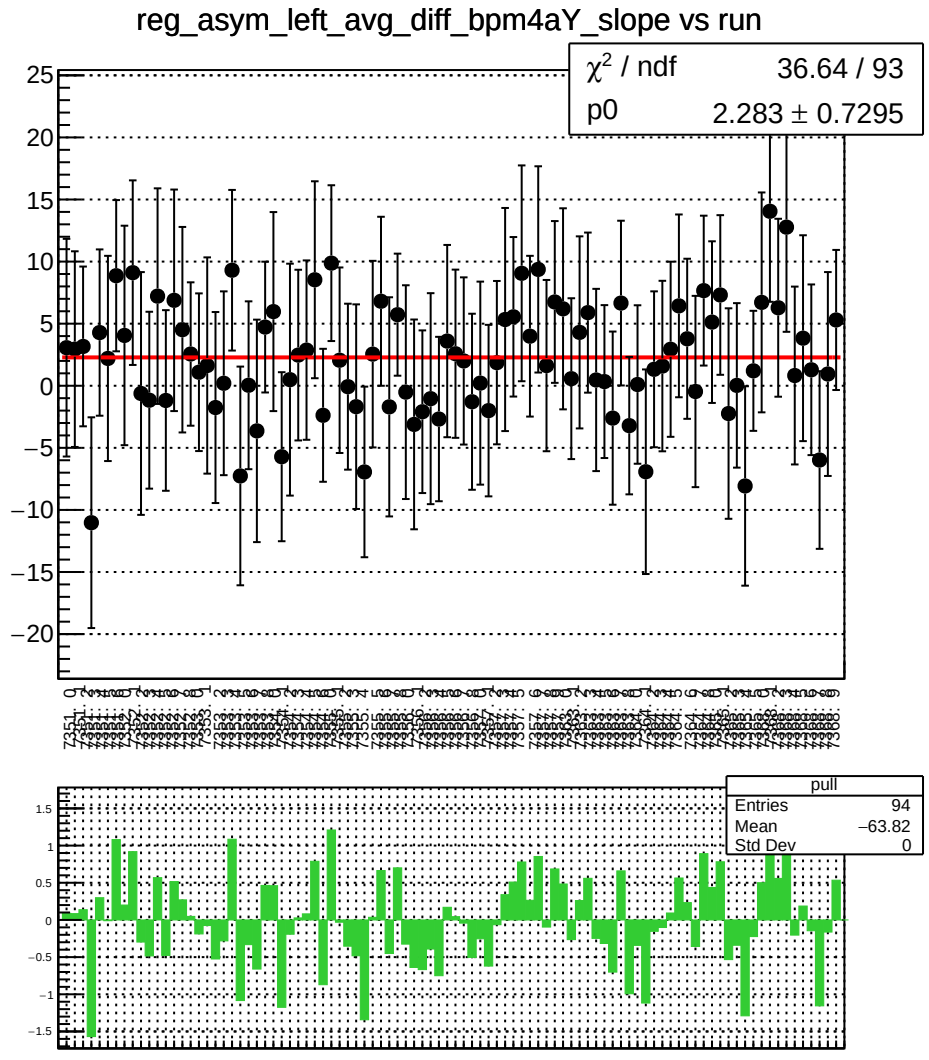

pull1D
Entries 94
Mean 0.0236
Std Dev 1.251

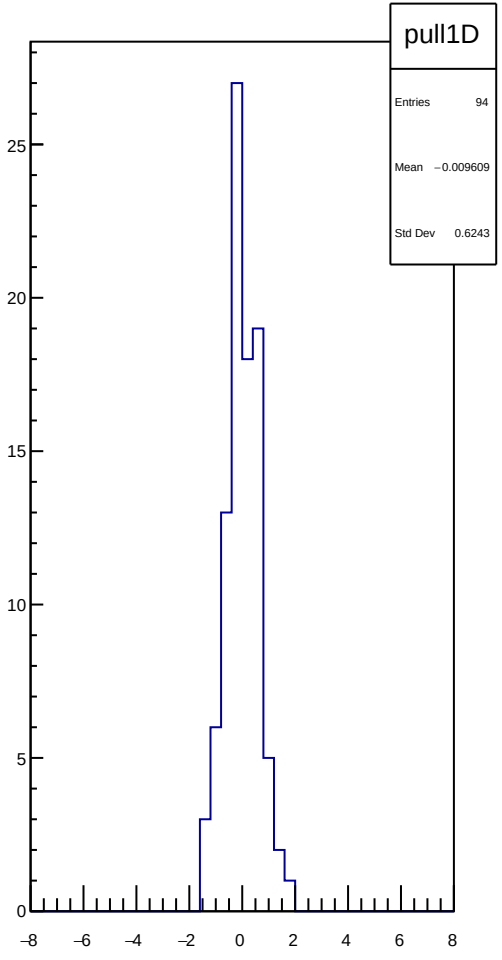

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 109.1 / 93
p0 −0.4363 ± 0.2036
pull
Entries 94
Mean 383.1
Std Dev 0
pull1D
Entries 94
Mean 0.01278
Std Dev 1.077

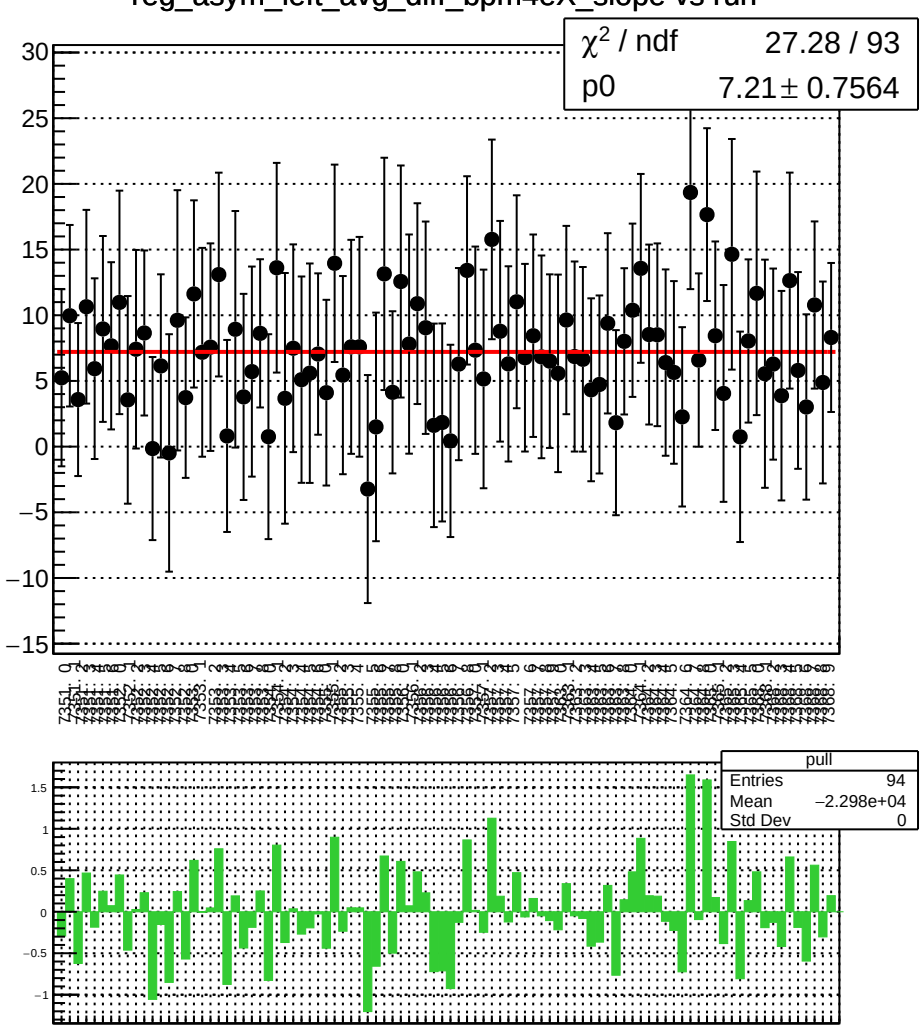

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 94.81 / 93
p0 −0.008809 ± 0.009385
pull
Entries 94
Mean −43.87
Std Dev 0

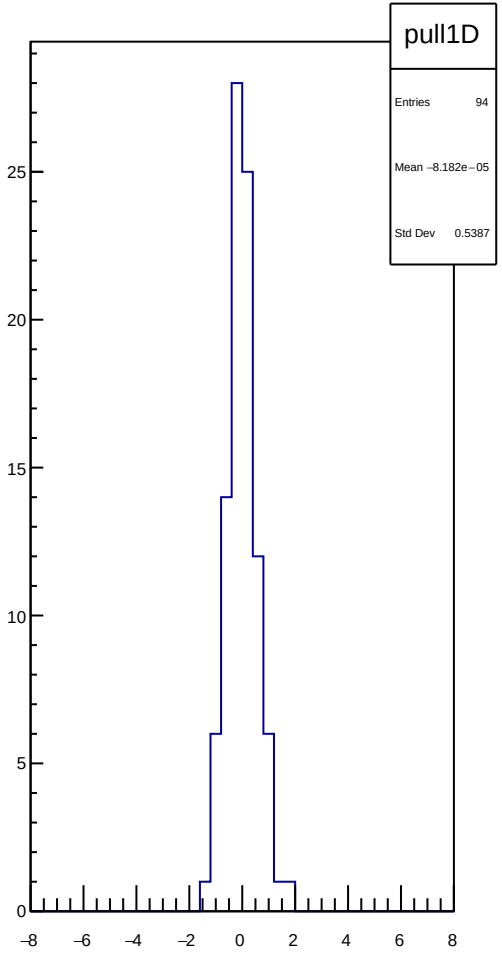

pull1D
Entries 94
Mean 0.02215
Std Dev 1.004

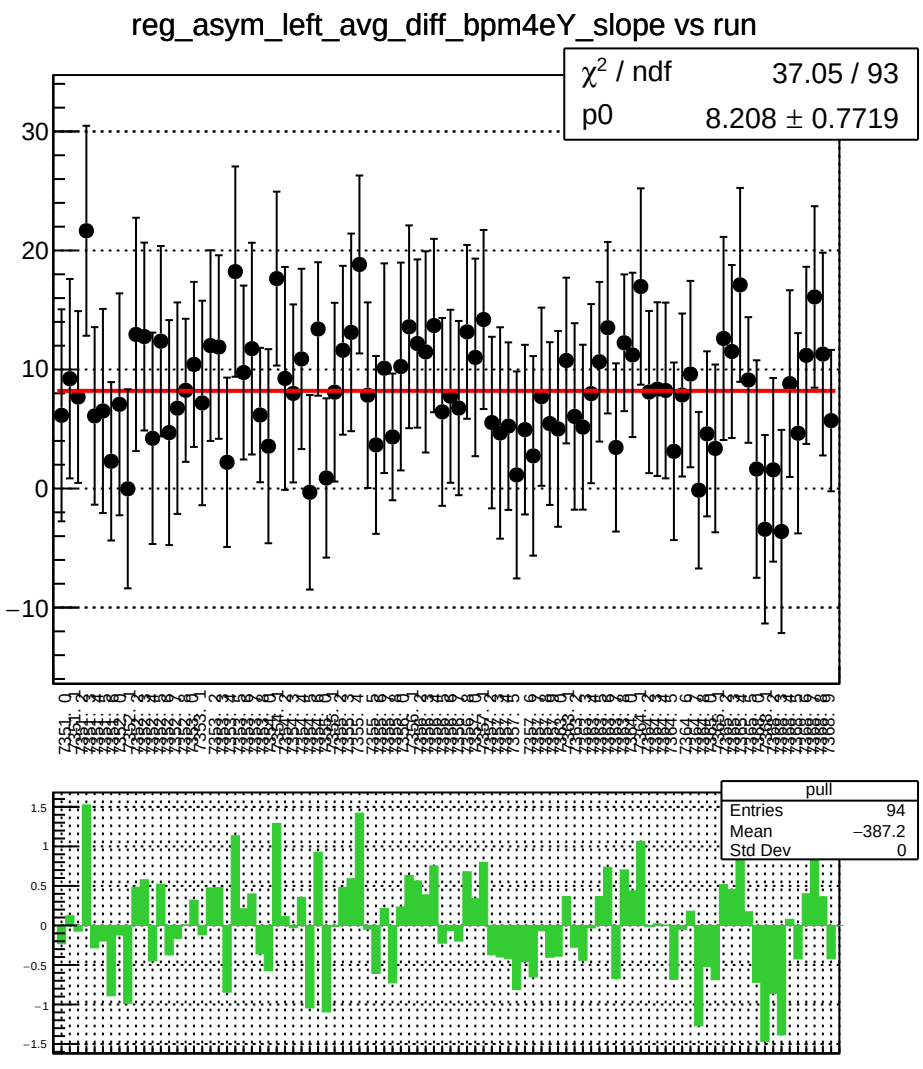

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 29.75 / 93
p0 −37.33 ± 0.7614
pull
Entries 94
Mean −31.91
Std Dev 0
pull1D
Entries 94
Mean −0.002566
Std Dev 0.5626

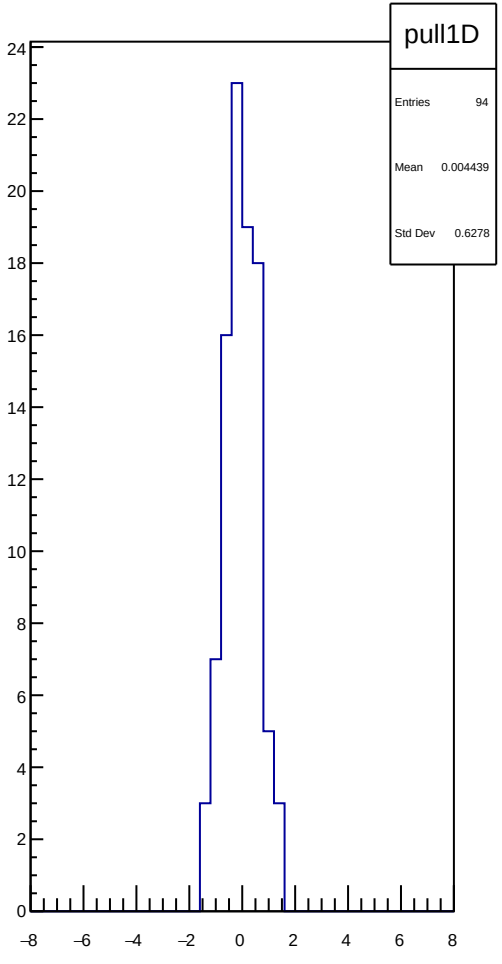

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 36.64 / 93
p0 2.283 ± 0.7295
pull
Entries 94
Mean −63.82
Std Dev 0

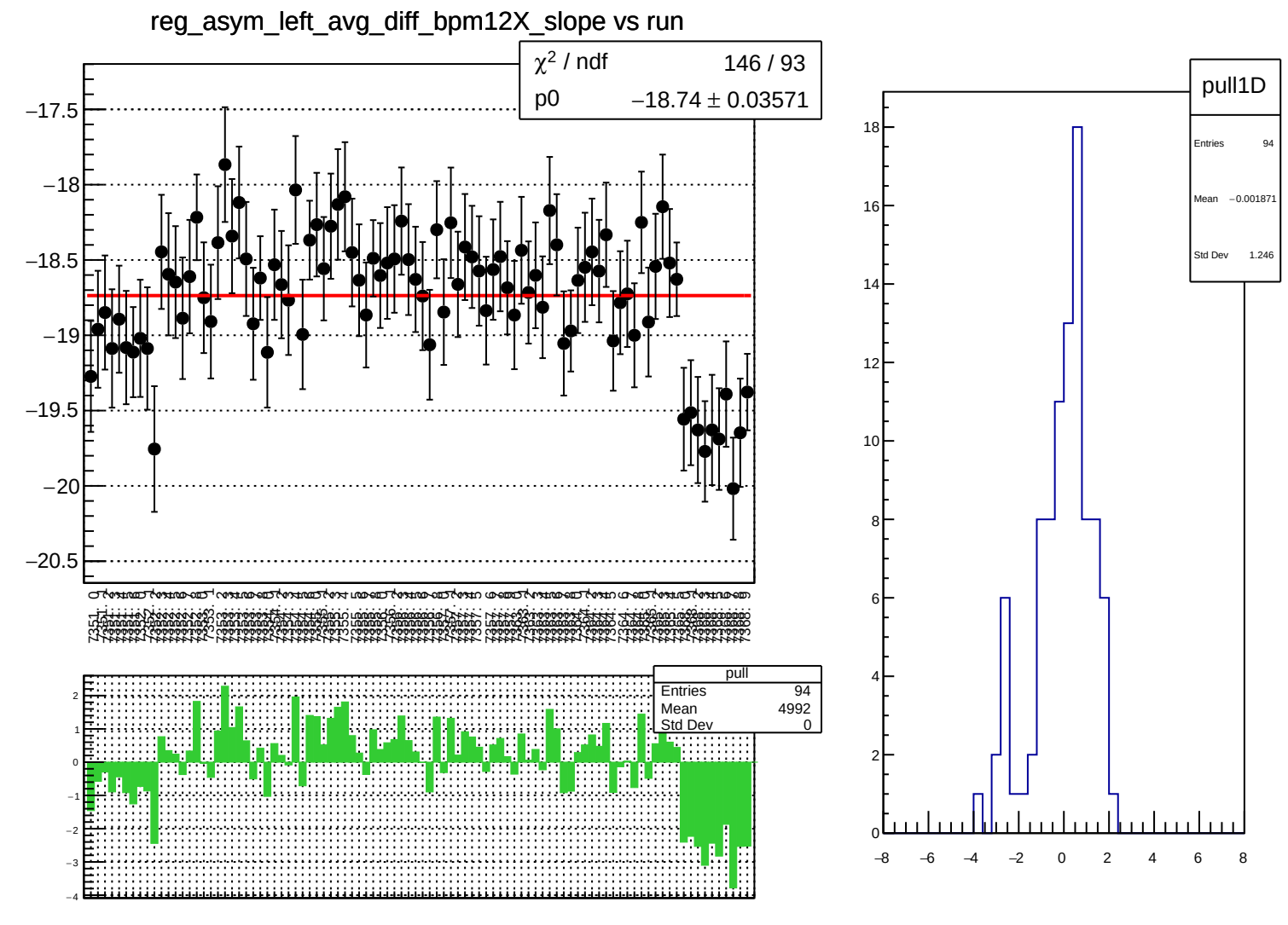

pull1D
Entries 94
Mean −0.009609
Std Dev 0.6243

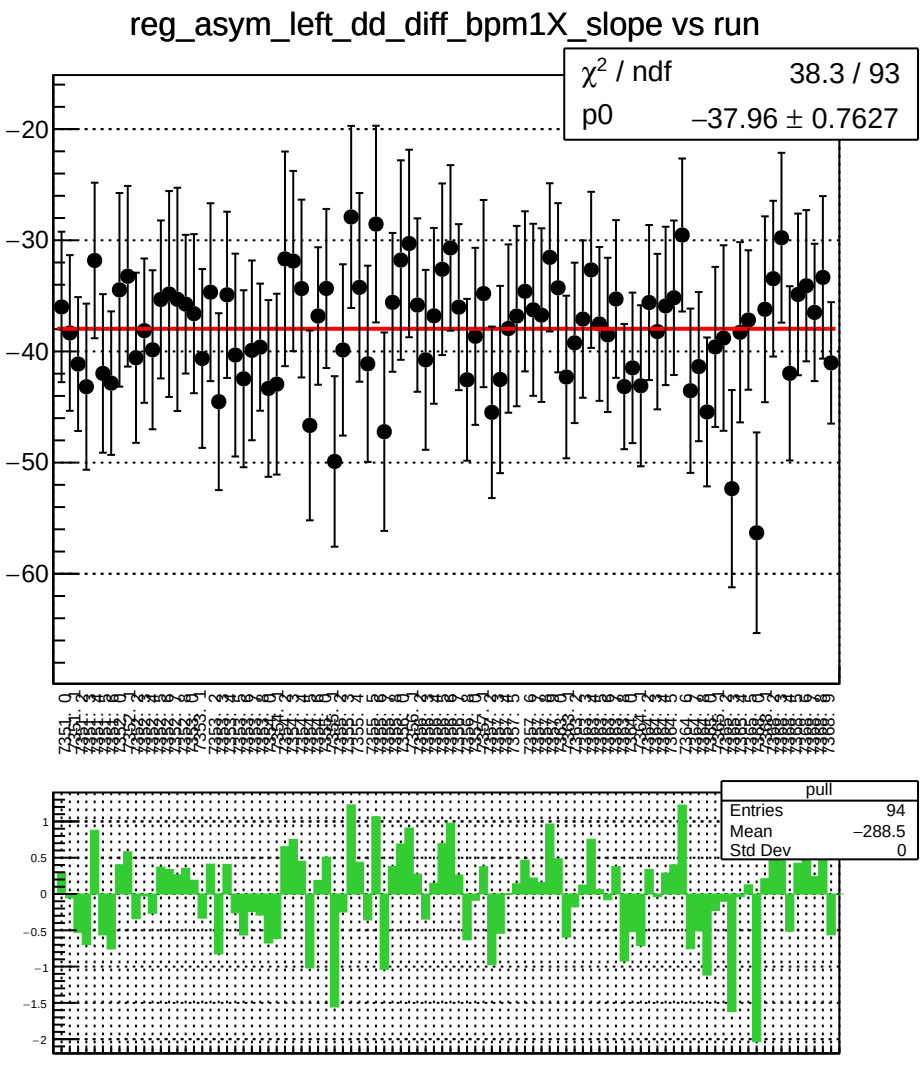

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 27.28 / 93
p0 7.21 ± 0.7564
pull
Entries 94
Mean −2.298e+04
Std Dev 0

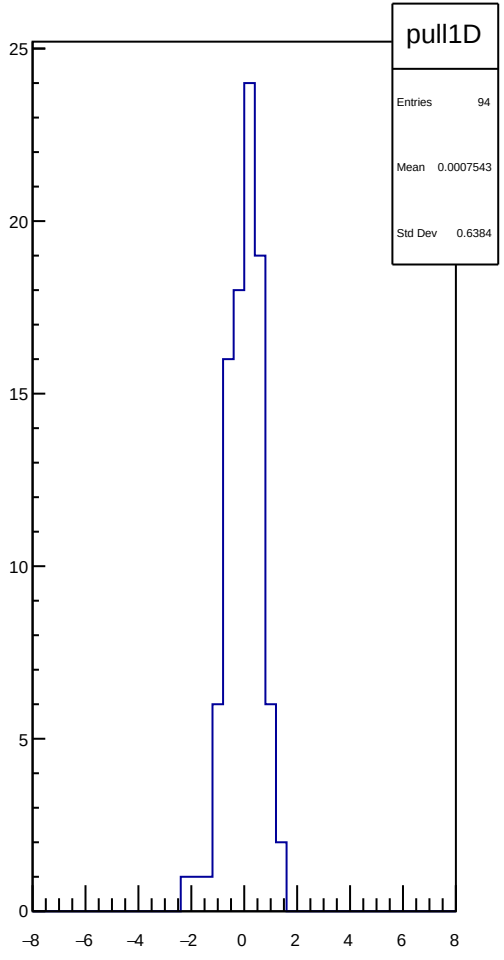

pull1D
Entries 94
Mean −8.182e−05
Std Dev 0.5387

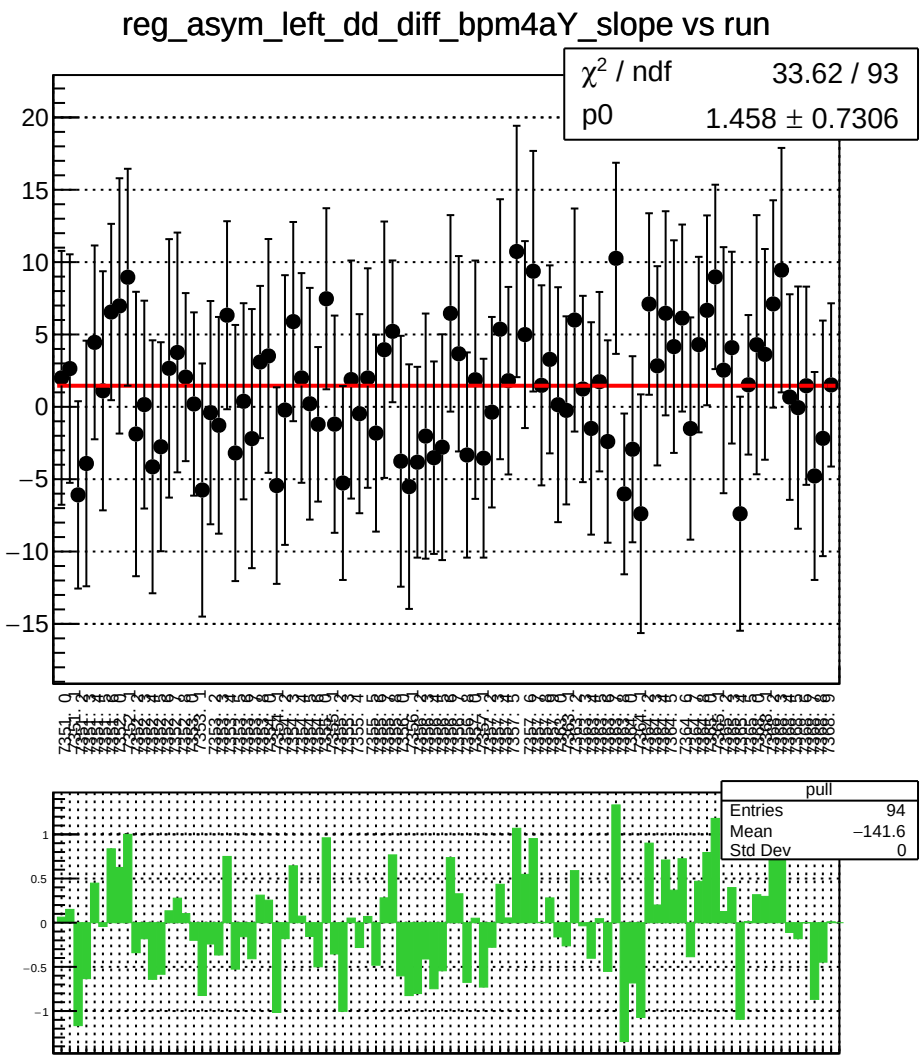

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 37.05 / 93
p0 8.208 ± 0.7719
pull
Entries 94
Mean −387.2
Std Dev 0

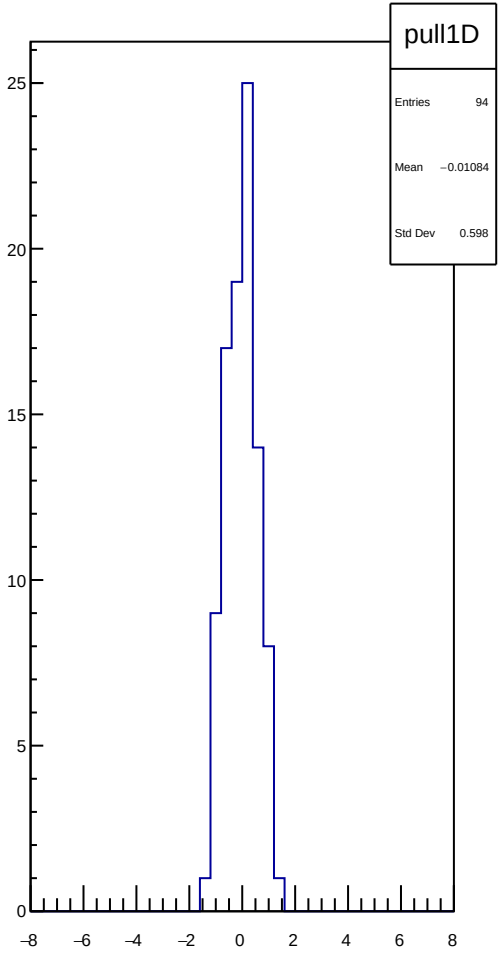

pull1D
Entries 94
Mean 0.004439
Std Dev 0.6278

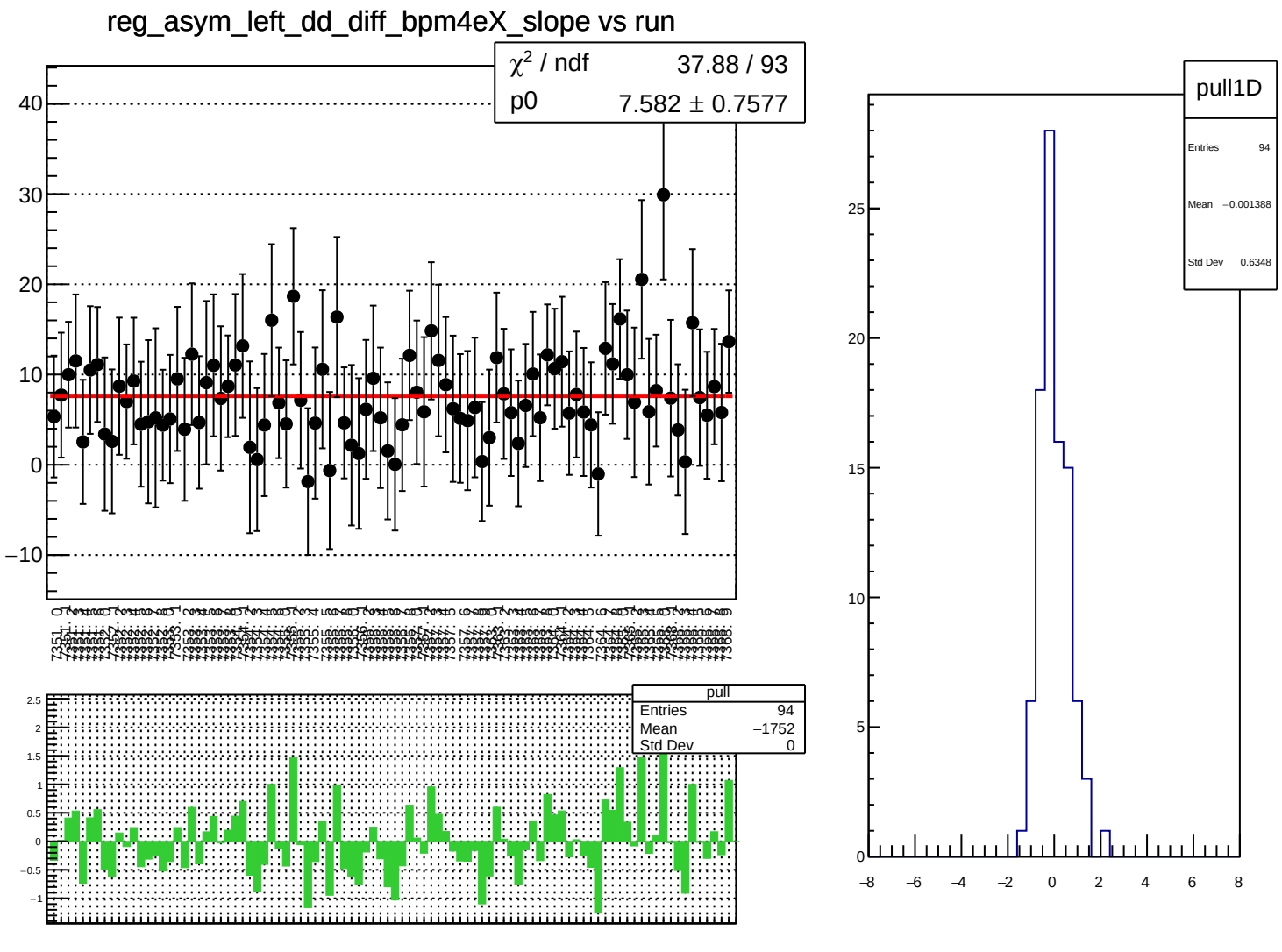

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 146 / 93
p0 −18.74 ± 0.03571
−17.5
−18
−18.5
−19
−19.5
−20
−20.5
pull
Entries 94
Mean 4992
Std Dev 0
2
1
0
−1
−2
−3
−4
pull1D
Entries 94
Mean −0.001871
Std Dev 1.246
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

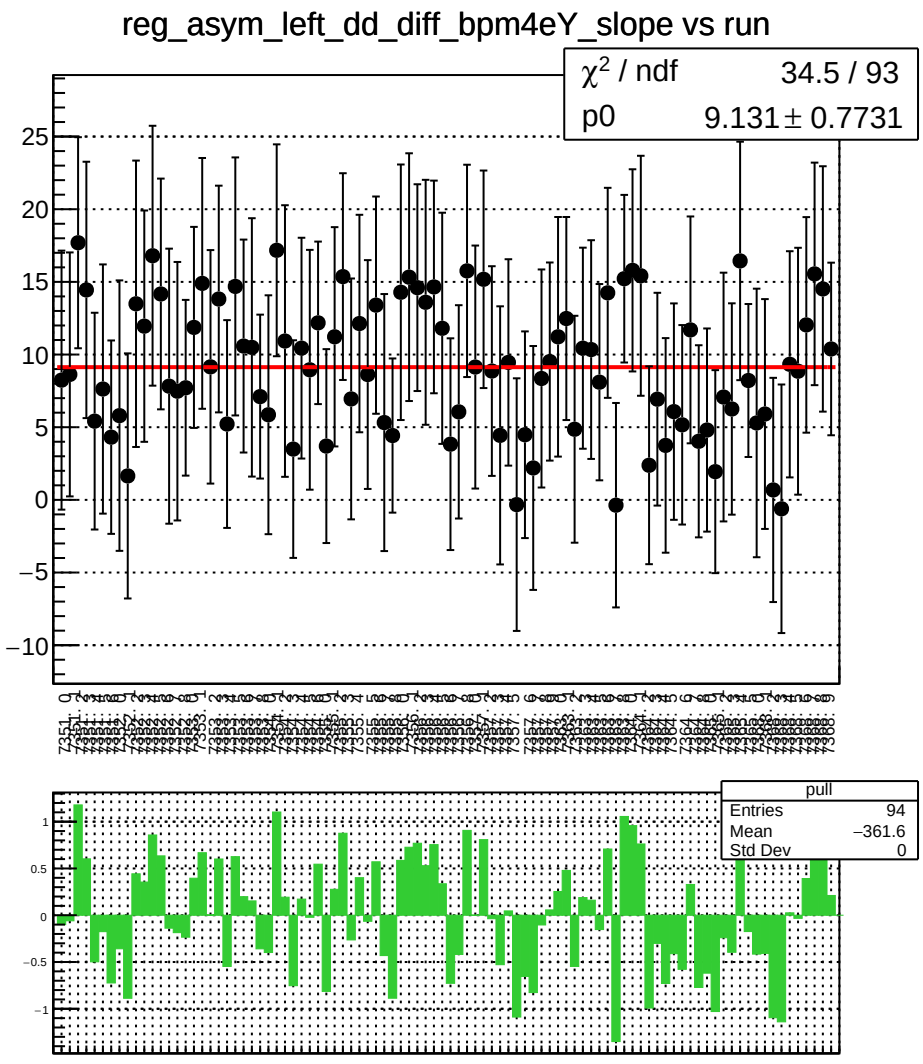

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 38.3 / 93
p0 −37.96 ± 0.7627
−20
−30
−40
−50
−60
pull
Entries 94
Mean −288.5
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

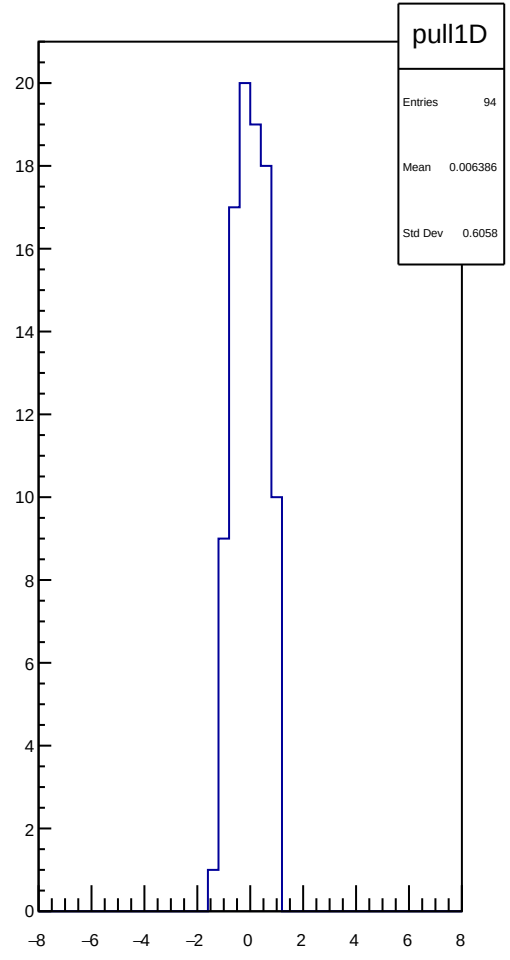

pull1D
Entries 94
Mean 0.0007543
Std Dev 0.6384
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

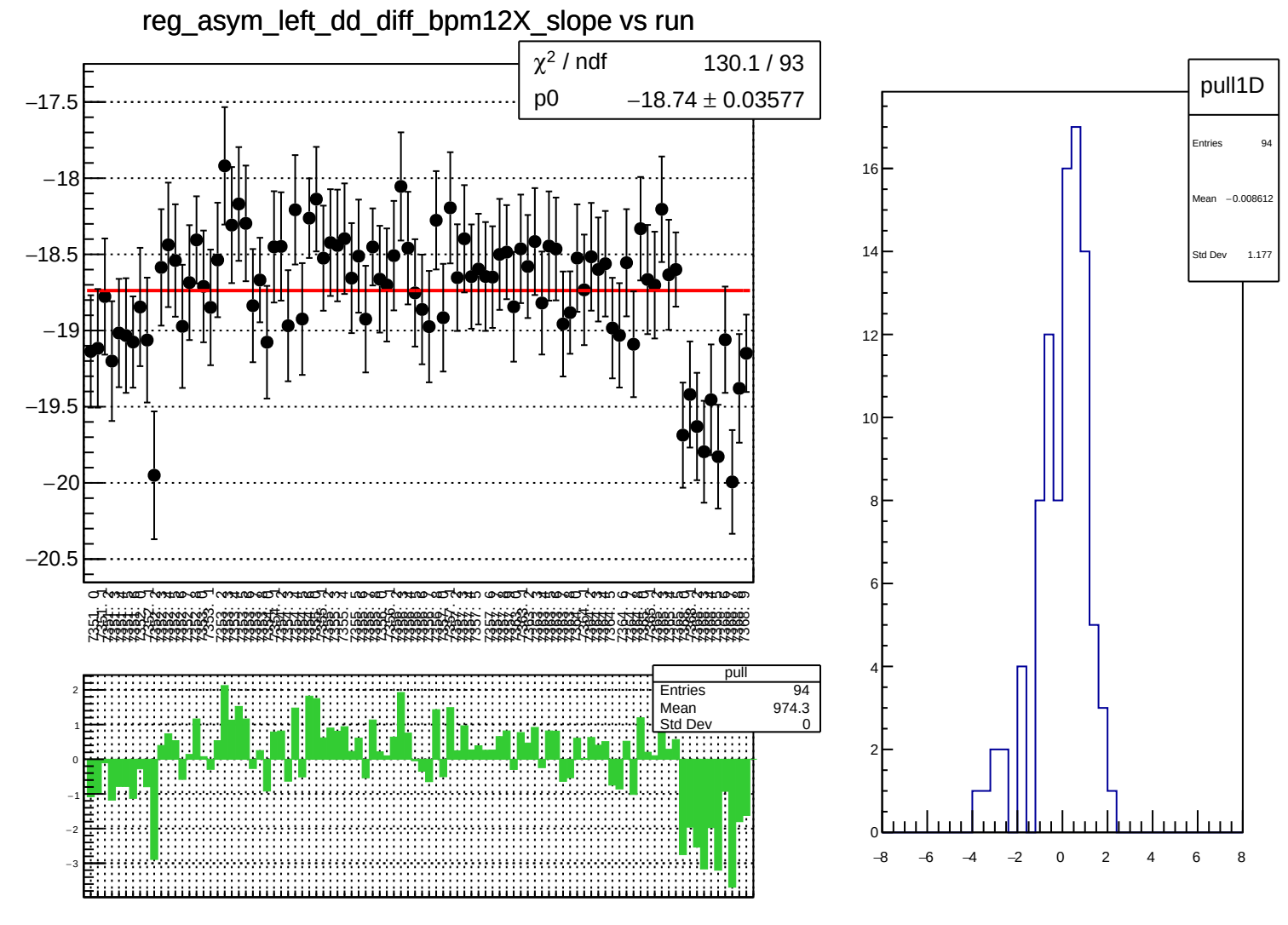

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 33.62 / 93
p0 1.458 ± 0.7306
pull
Entries 94
Mean −141.6
Std Dev 0

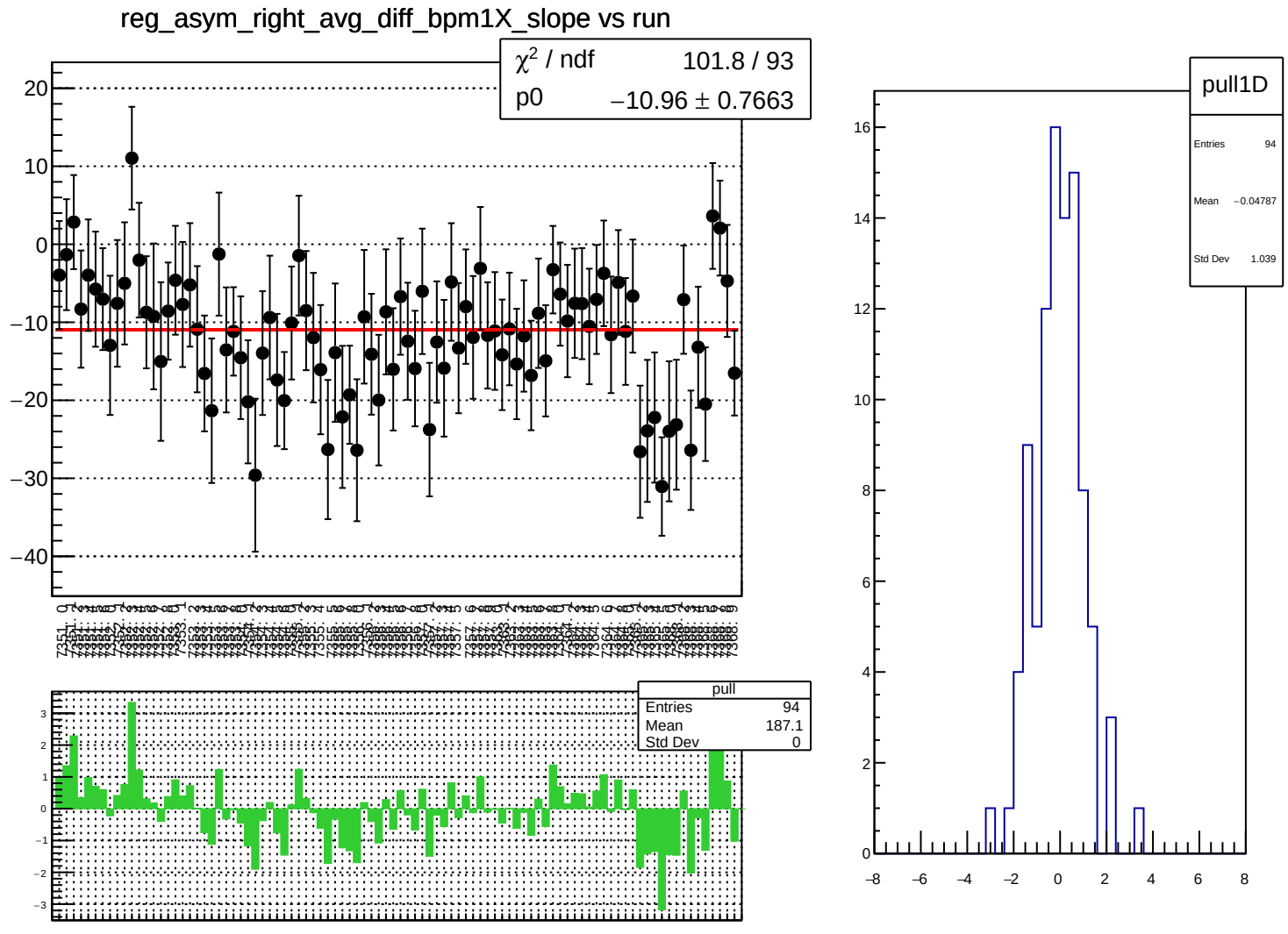

pull1D
Entries 94
Mean −0.01084
Std Dev 0.598

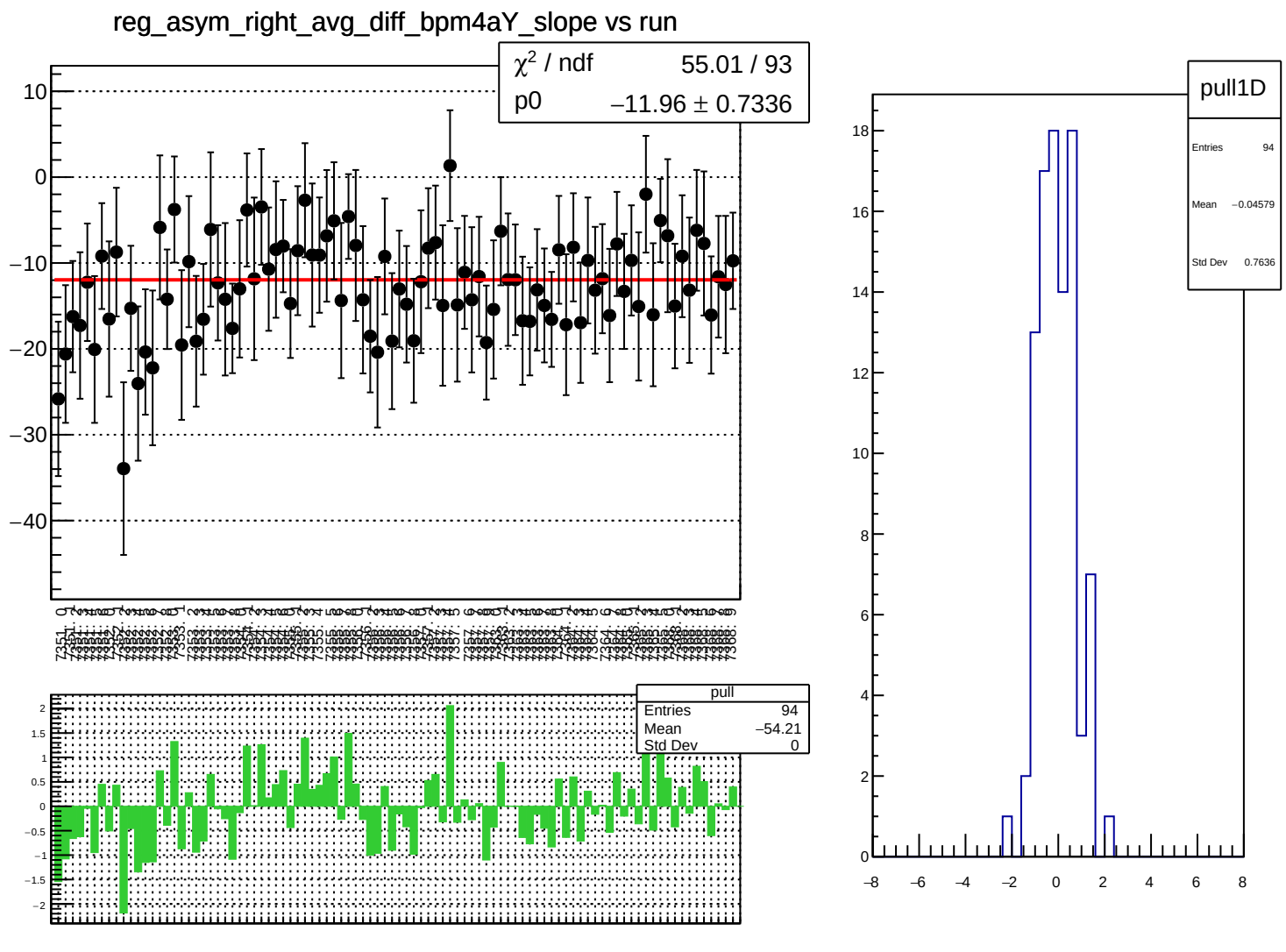

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 37.88 / 93
p0 7.582 ± 0.7577
pull
Entries 94
Mean −1752
Std Dev 0
pull1D
Entries 94
Mean −0.001388
Std Dev 0.6348

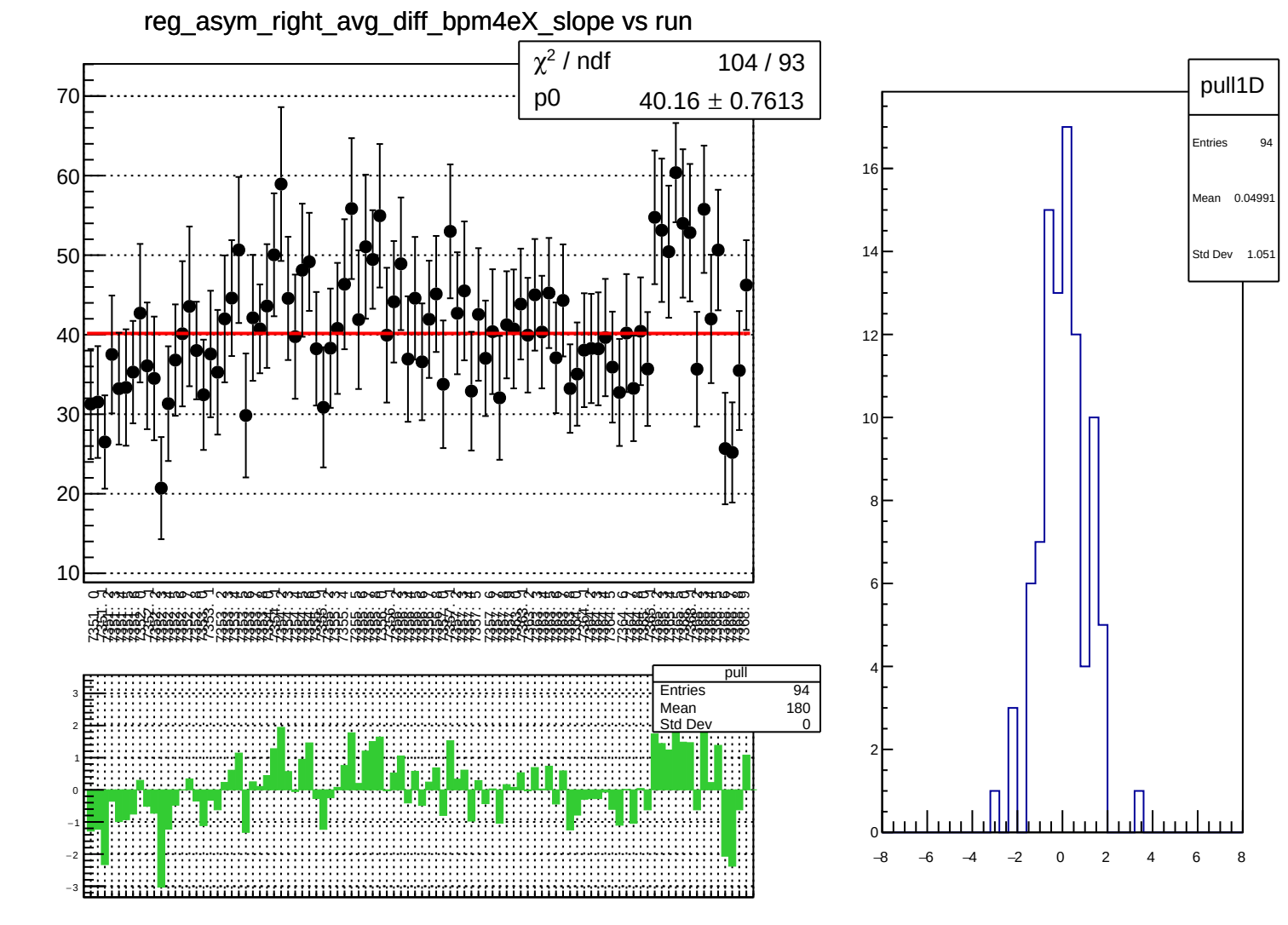

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 34.5 / 93
p0 9.131 ± 0.7731
pull
Entries 94
Mean −361.6
Std Dev 0

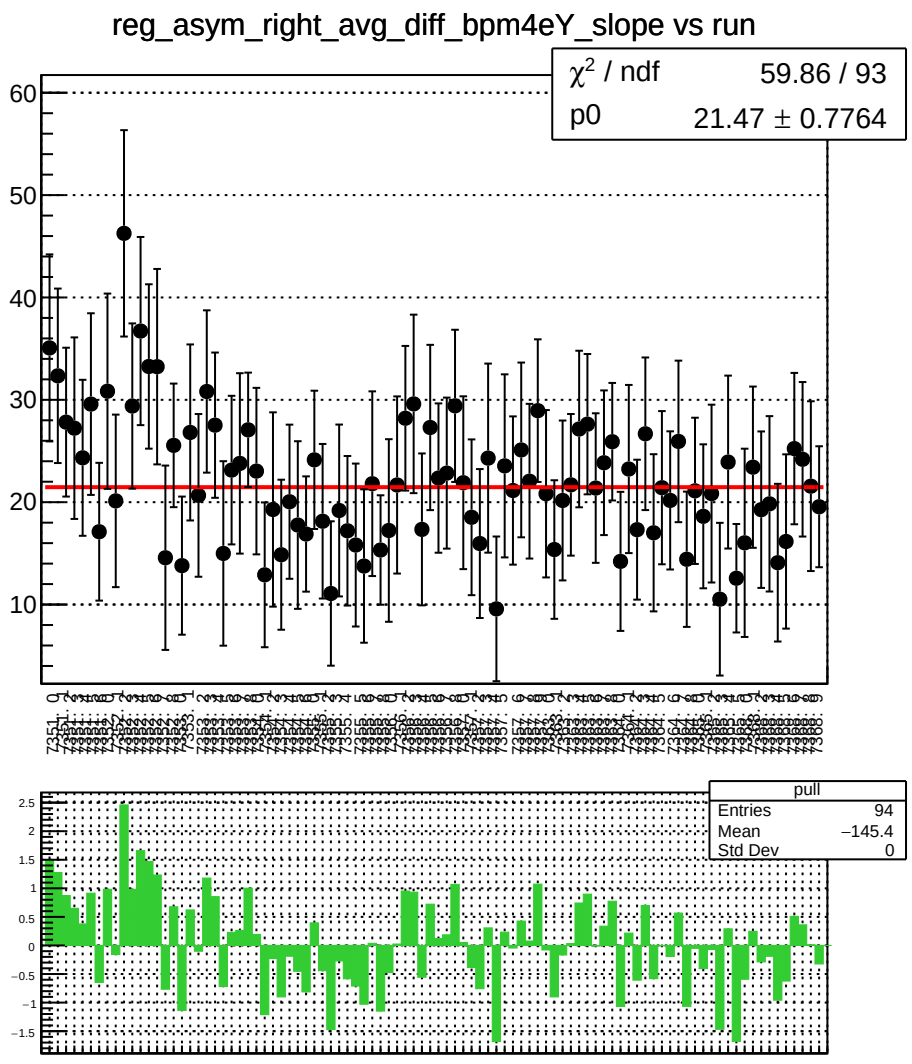

pull1D
Entries 94
Mean 0.006386
Std Dev 0.6058

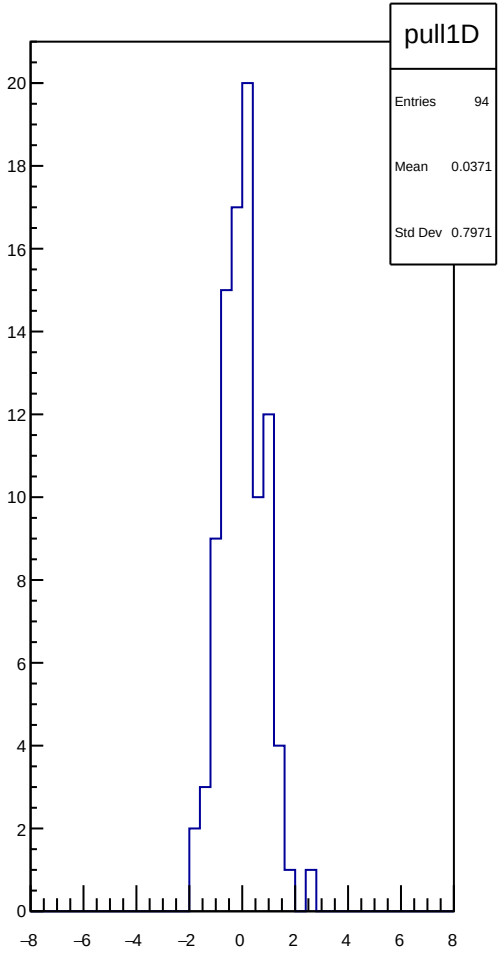

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 130.1 / 93
p0 −18.74 ± 0.03577
−17.5
−18
−18.5
−19
−19.5
−20
−20.5
pull
Entries 94
Mean 974.3
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.008612
Std Dev 1.177
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

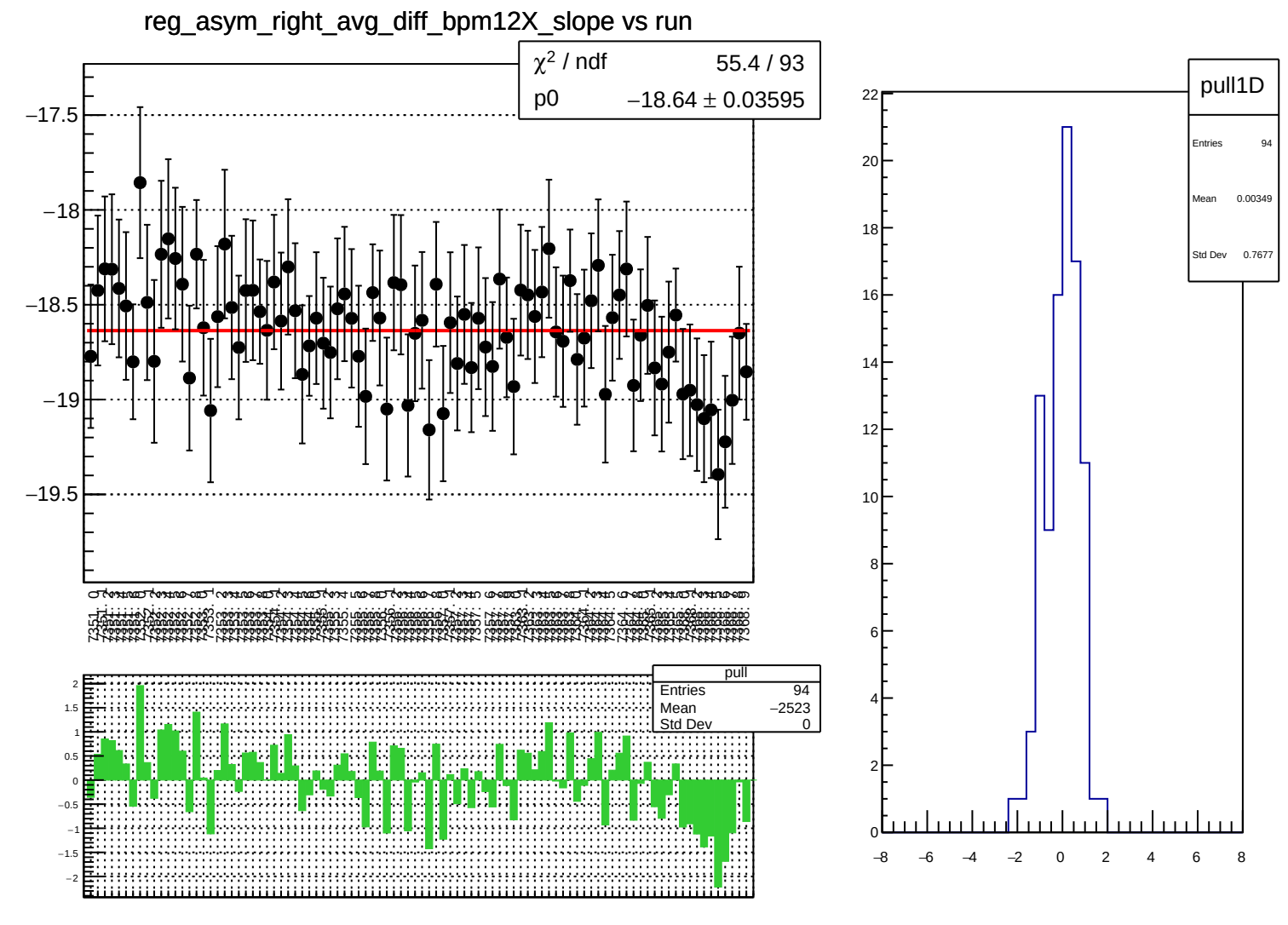

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 101.8 / 93
p0 −10.96 ± 0.7663
pull
Entries 94
Mean 187.1
Std Dev 0
pull1D
Entries 94
Mean −0.04787
Std Dev 1.039

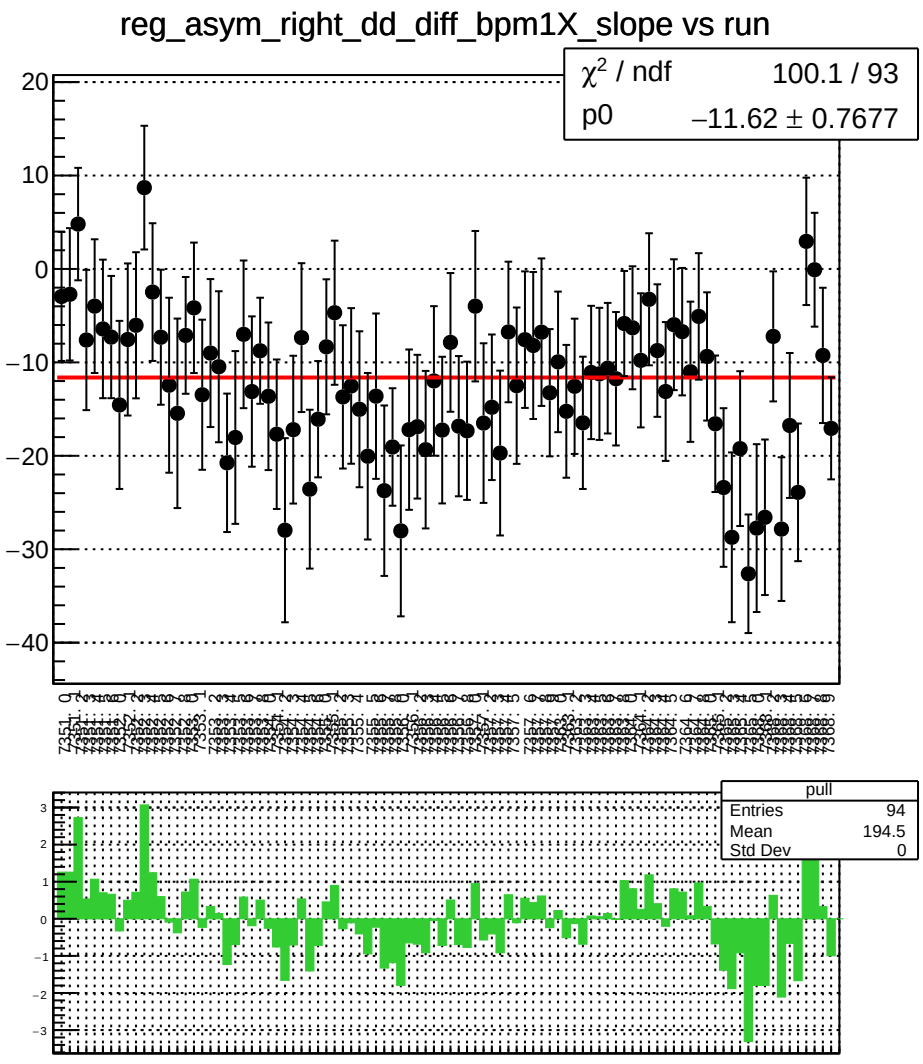

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 55.01 / 93
p0 −11.96 ± 0.7336
pull
Entries 94
Mean −54.21
Std Dev 0
pull1D
Entries 94
Mean −0.04579
Std Dev 0.7636

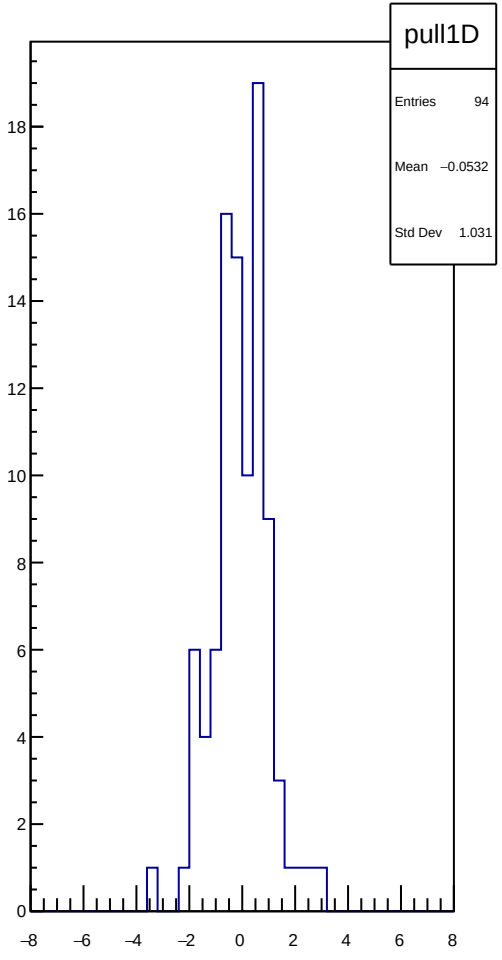

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 104 / 93
p0 40.16 ± 0.7613
pull
Entries 94
Mean 180
Std Dev 0
pull1D
Entries 94
Mean 0.04991
Std Dev 1.051

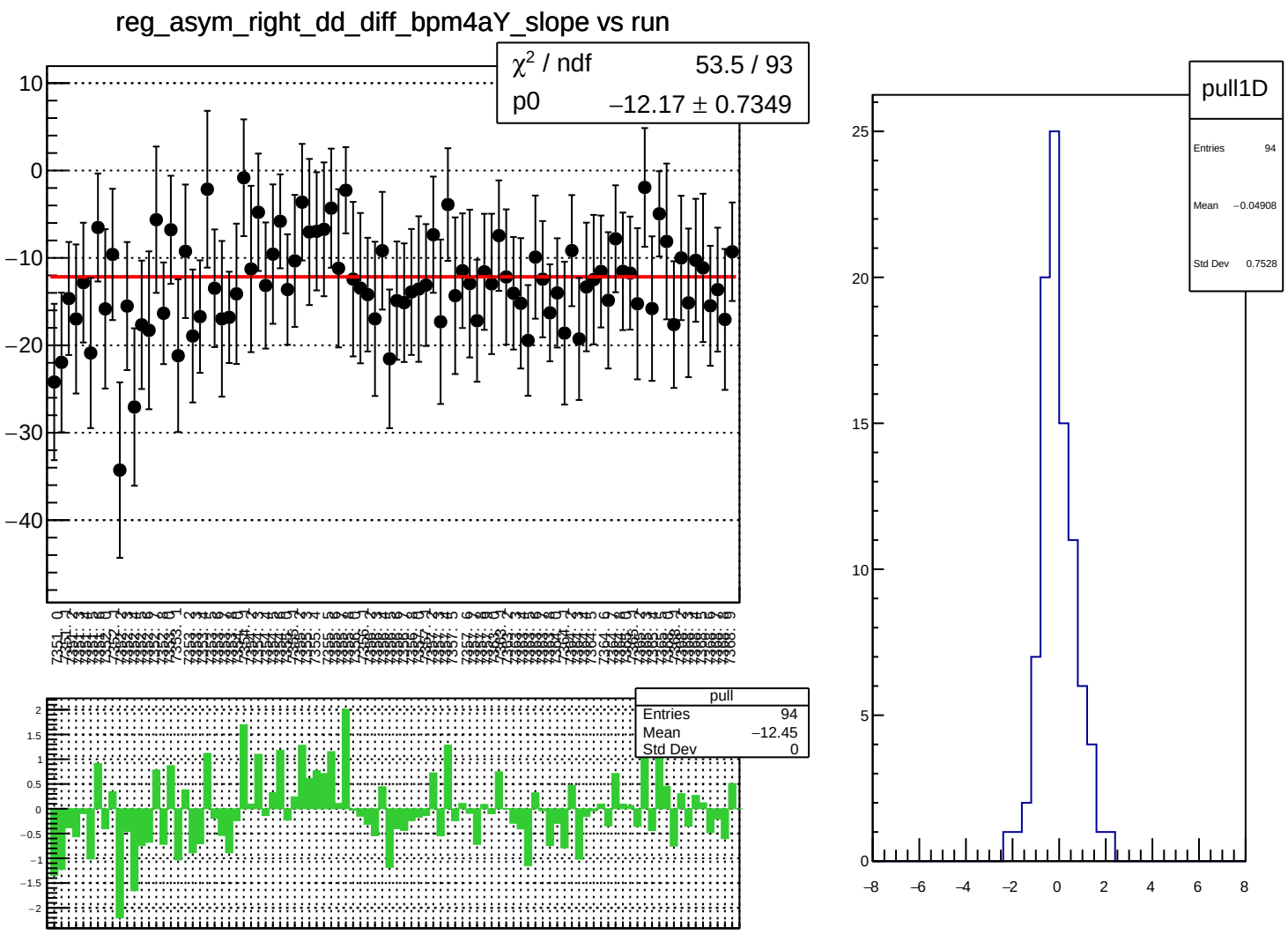

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 59.86 / 93
p0 21.47 ± 0.7764
pull
Entries 94
Mean −145.4
Std Dev 0

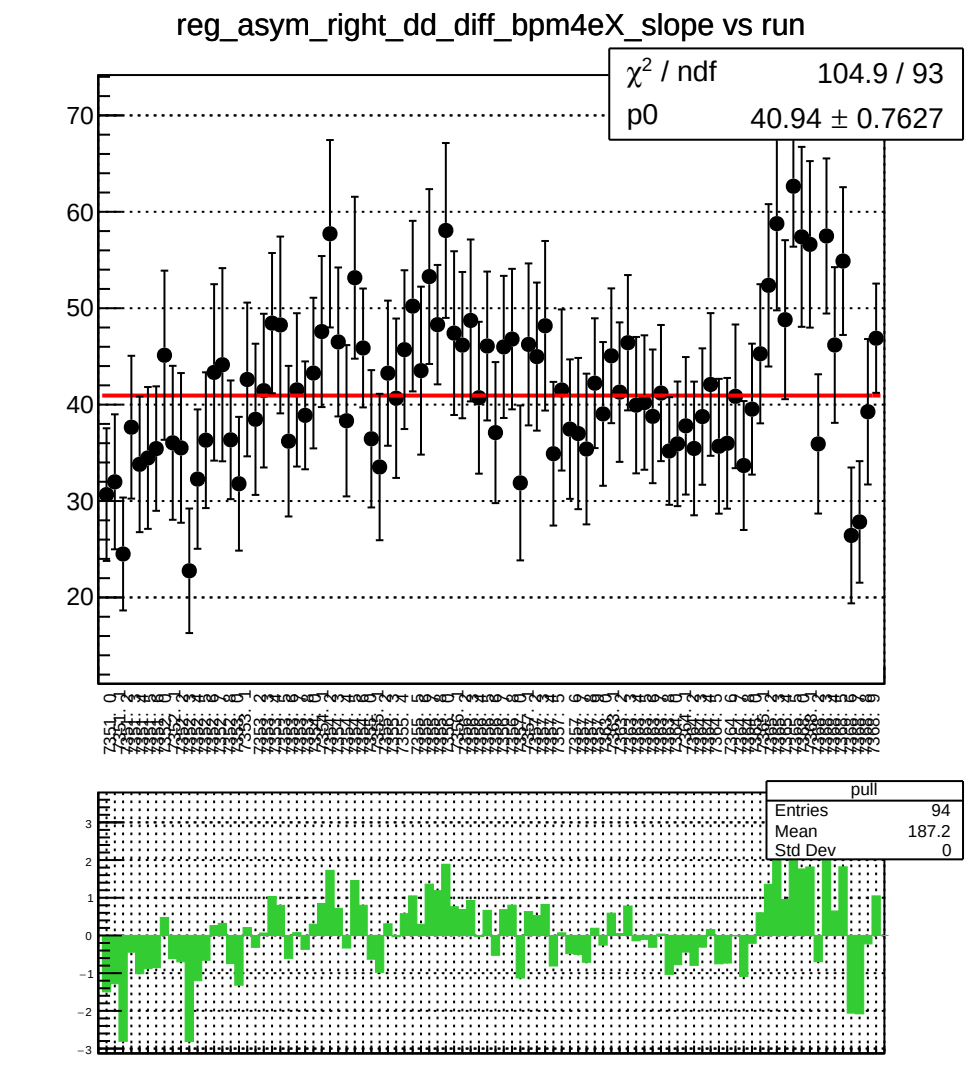

pull1D
Entries 94
Mean 0.0371
Std Dev 0.7971

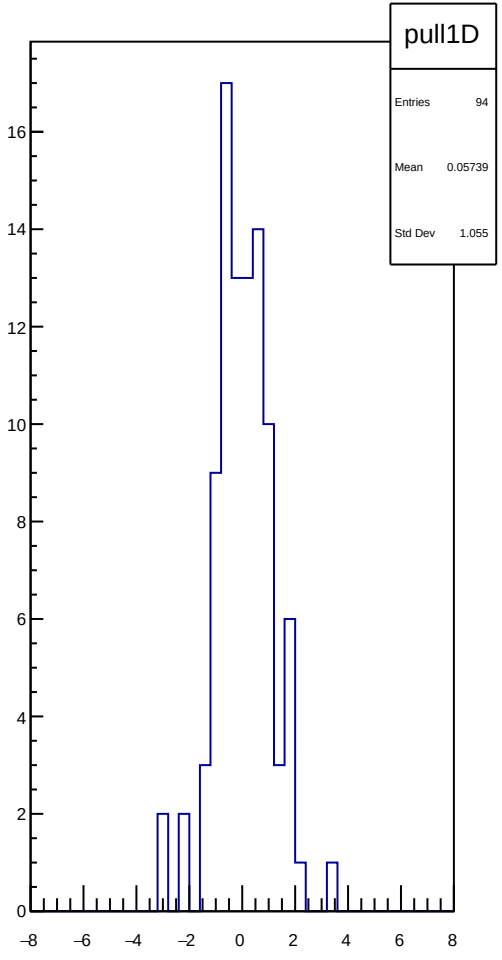

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 55.4 / 93
p0 −18.64 ± 0.03595
−17.5
−18
−18.5
−19
−19.5
pull
Entries 94
Mean −2523
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean 0.00349
Std Dev 0.7677
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

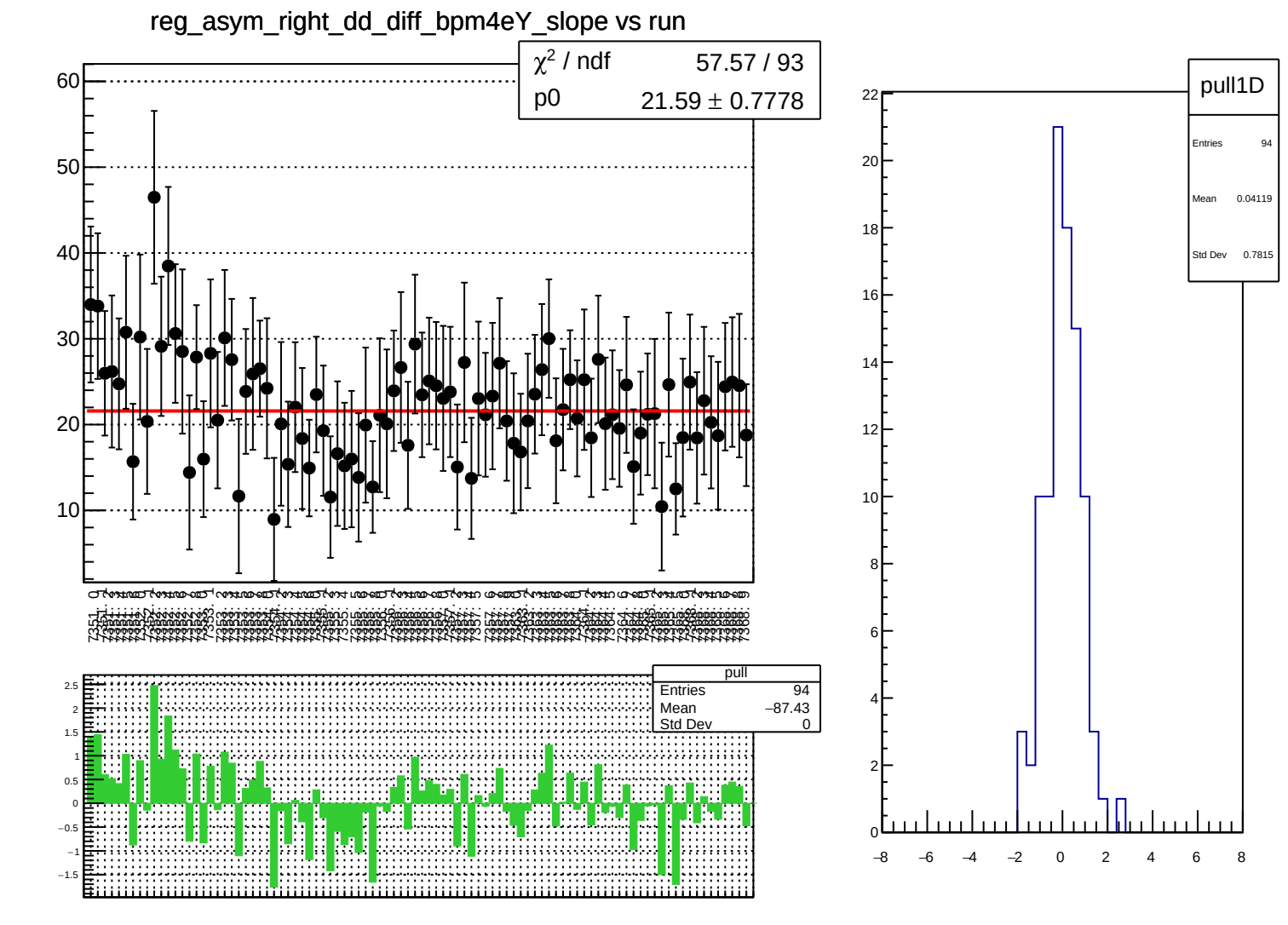

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 100.1 / 93
p0 −11.62 ± 0.7677
pull
Entries 94
Mean 194.5
Std Dev 0

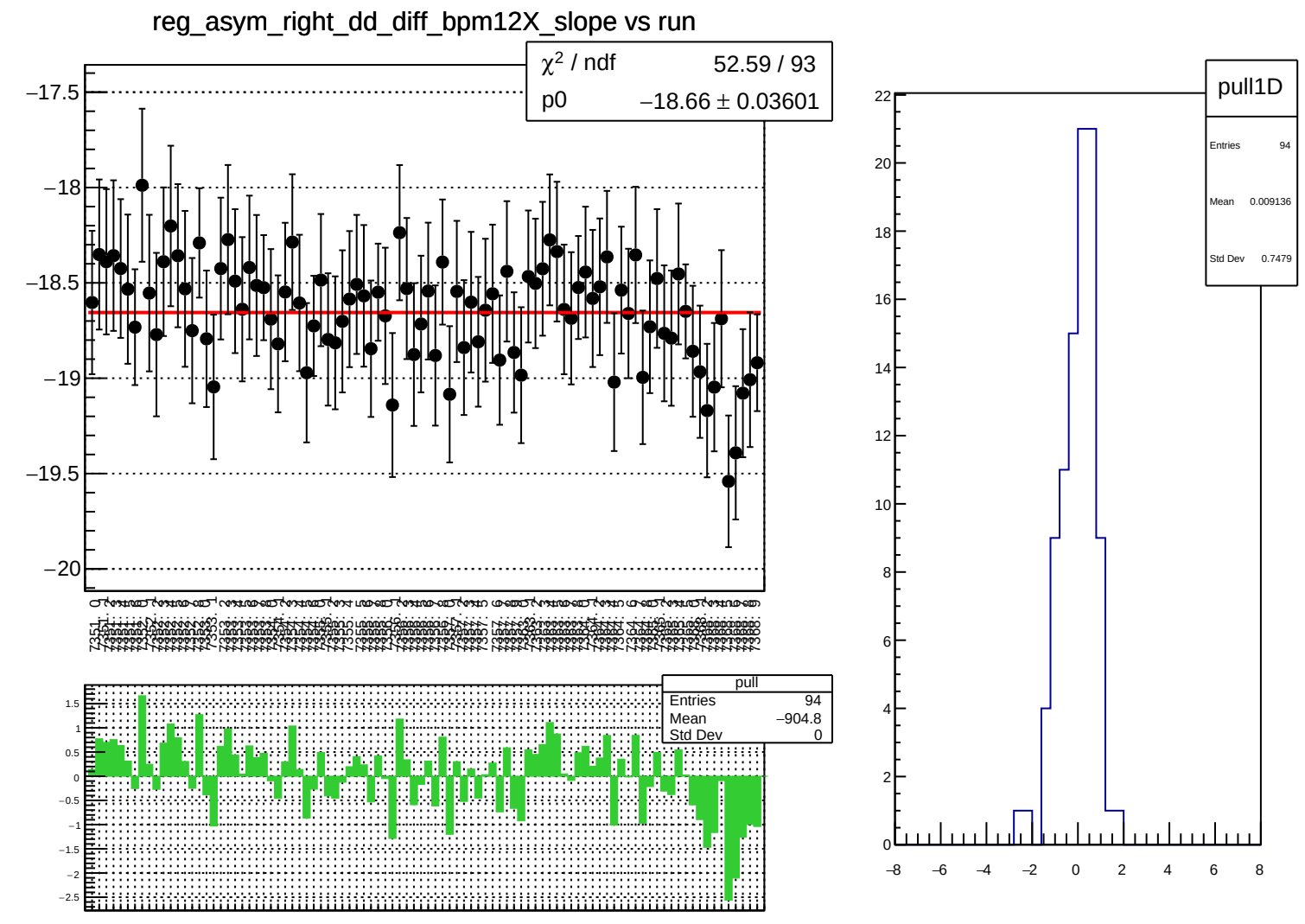

pull1D
Entries 94
Mean −0.0532
Std Dev 1.031

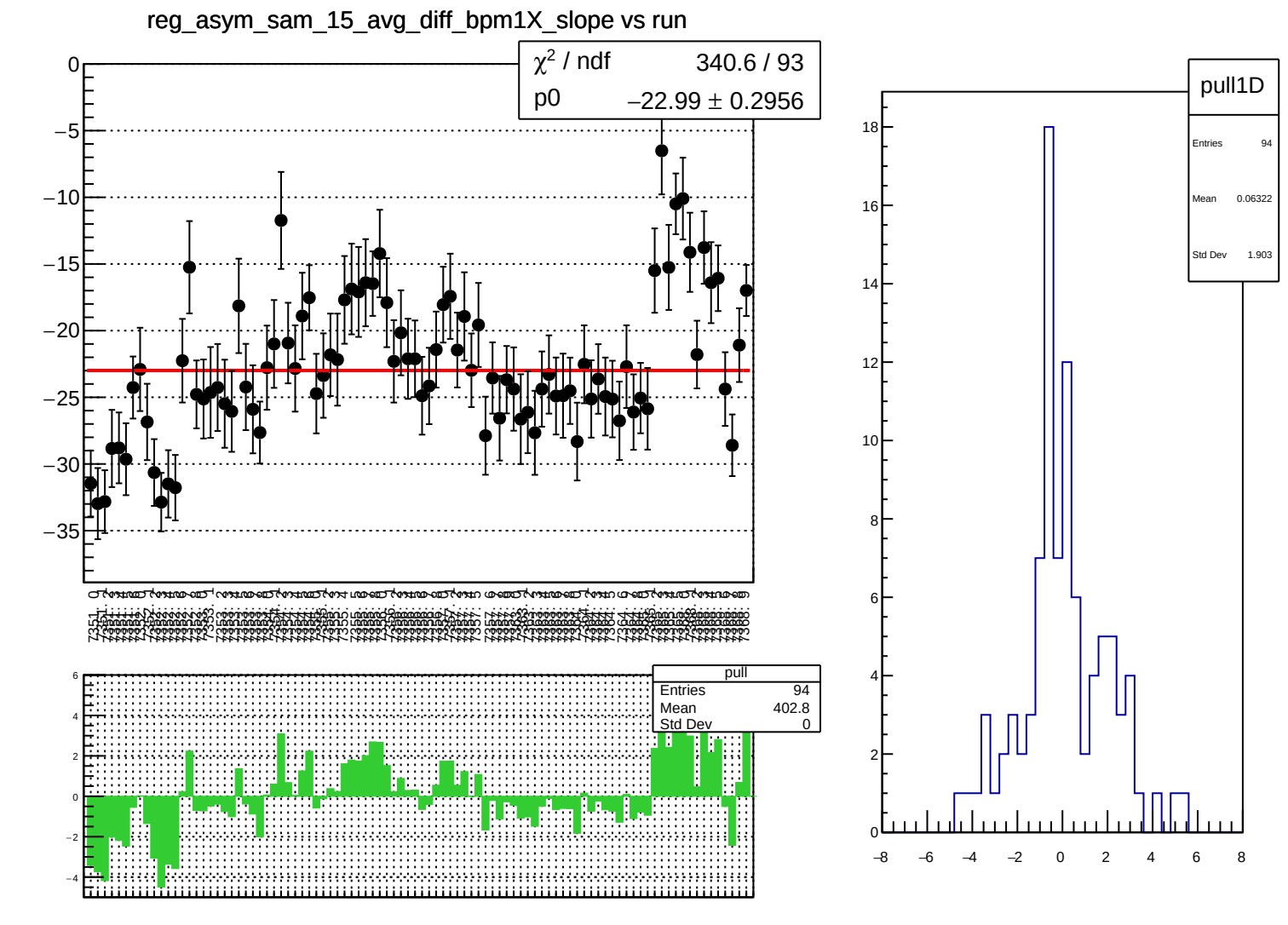

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 53.5 / 93
p0 −12.17 ± 0.7349
pull
Entries 94
Mean −12.45
Std Dev 0
pull1D
Entries 94
Mean −0.04908
Std Dev 0.7528

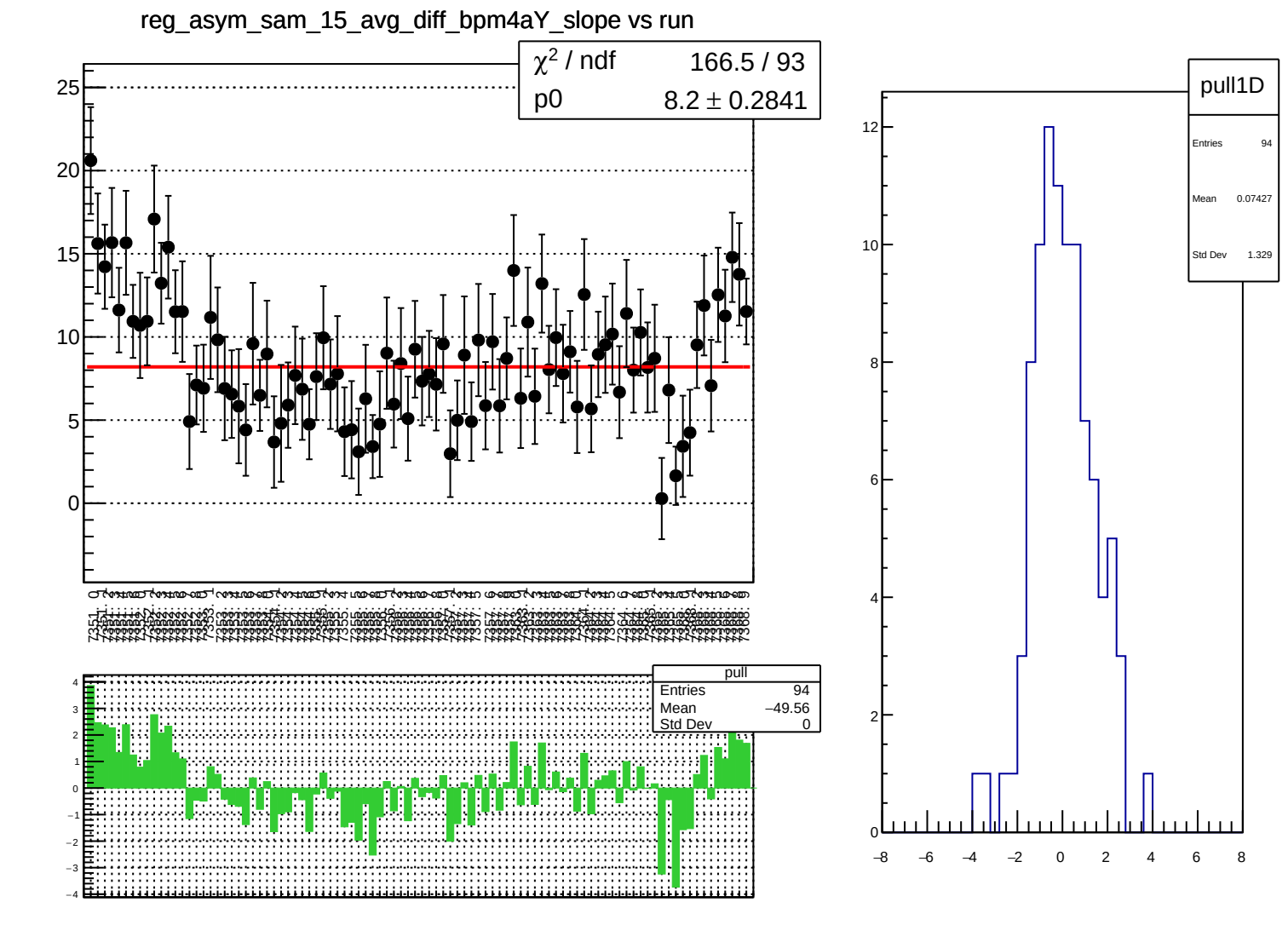

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 104.9 / 93
p0 40.94 ± 0.7627
pull
Entries 94
Mean 187.2
Std Dev 0

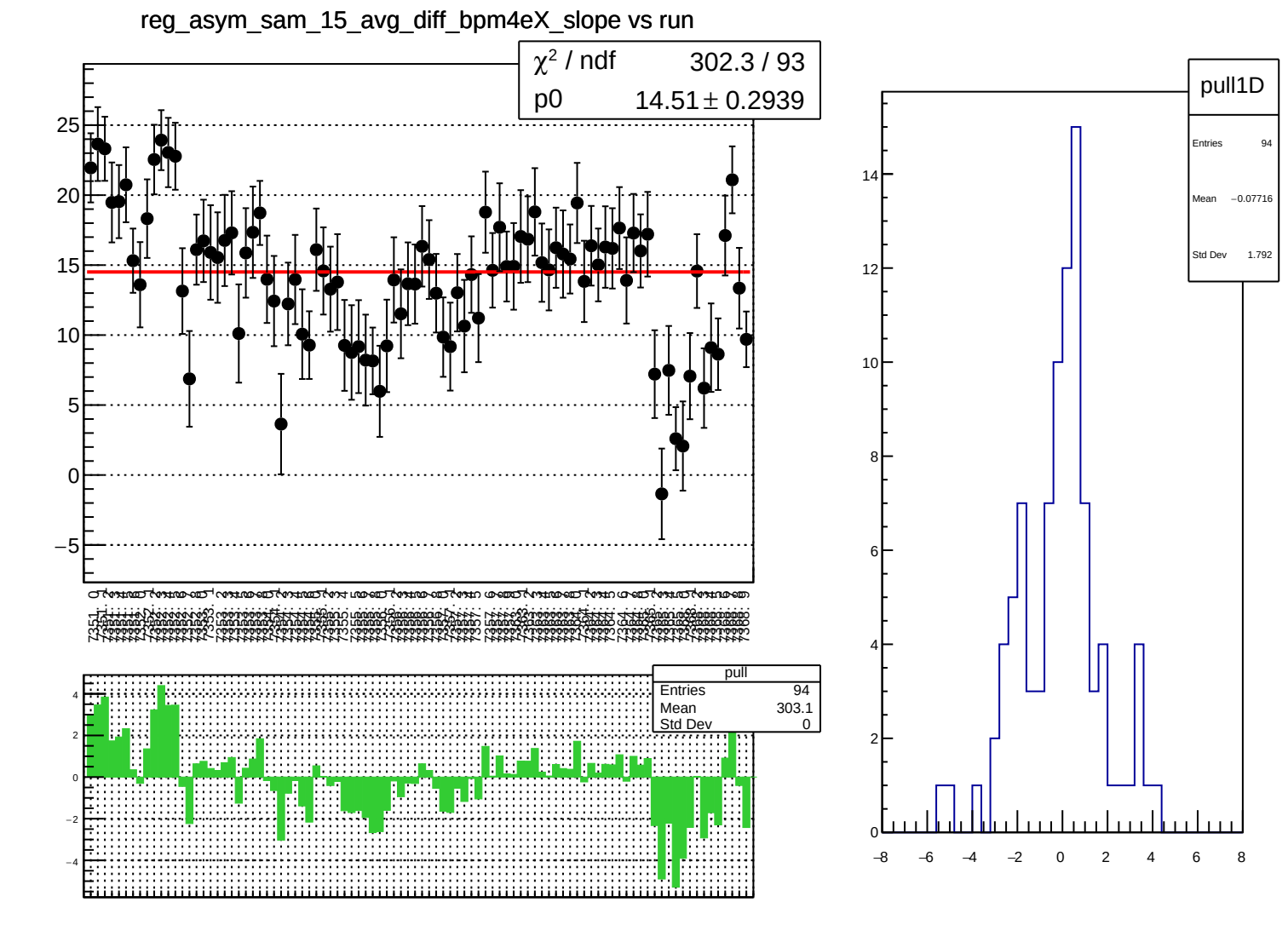

pull1D
Entries 94
Mean 0.05739
Std Dev 1.055

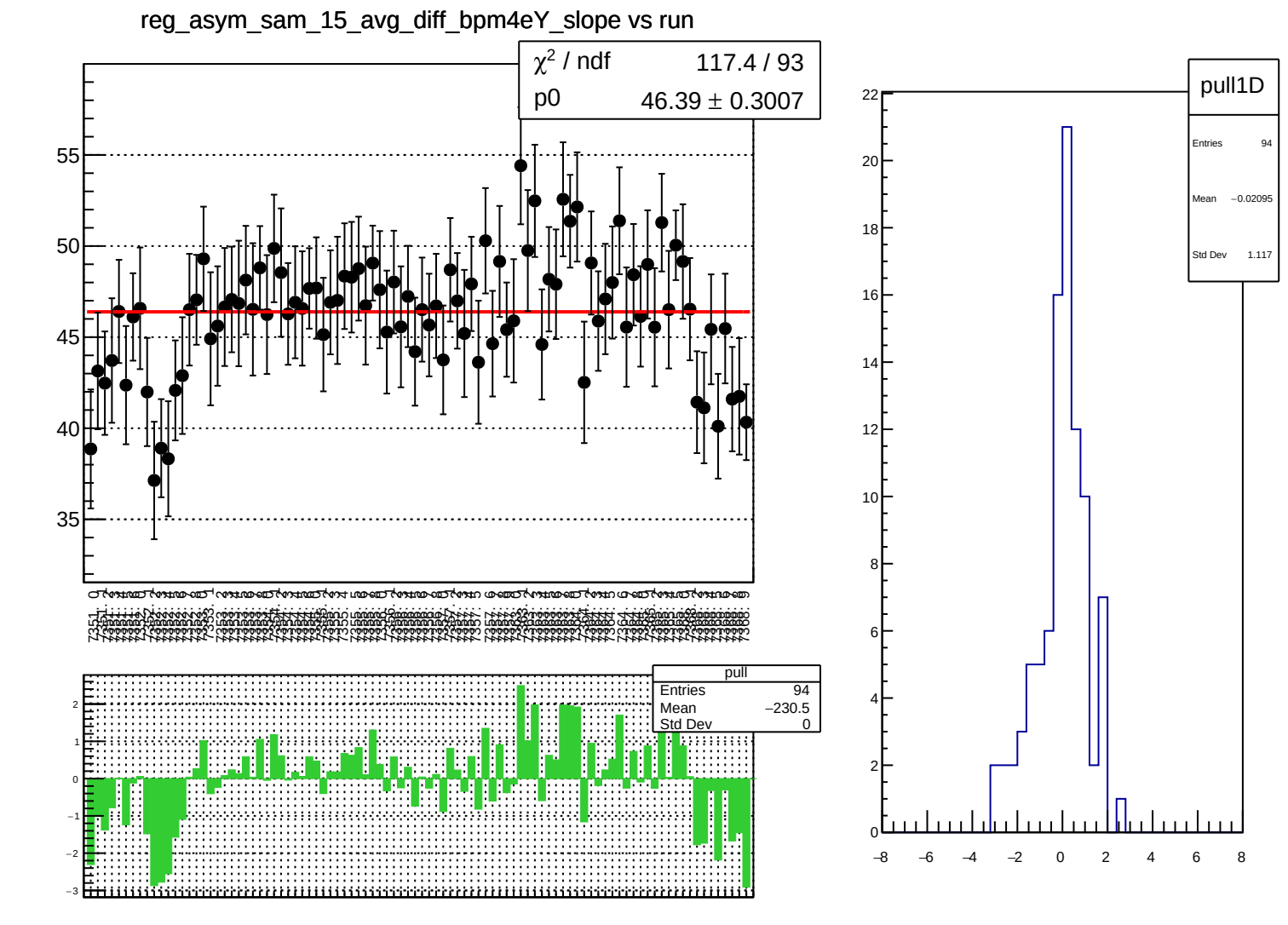

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 57.57 / 93
p0 21.59 ± 0.7778
pull
Entries 94
Mean −87.43
Std Dev 0
pull1D
Entries 94
Mean 0.04119
Std Dev 0.7815

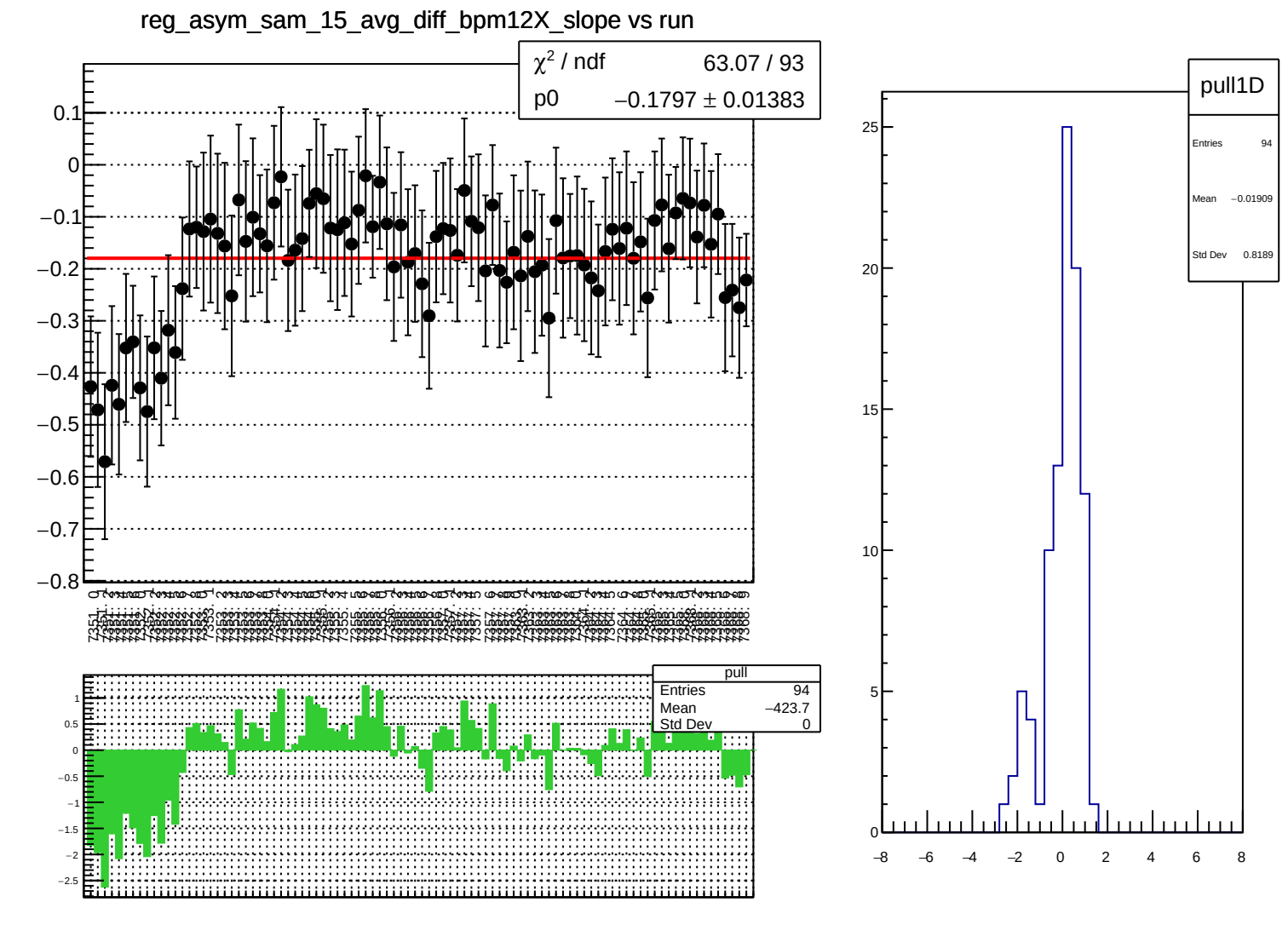

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 52.59 / 93
p0 −18.66 ± 0.03601
−17.5
−18
−18.5
−19
−19.5
−20
pull
Entries 94
Mean −904.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 94
Mean 0.009136
Std Dev 0.7479
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

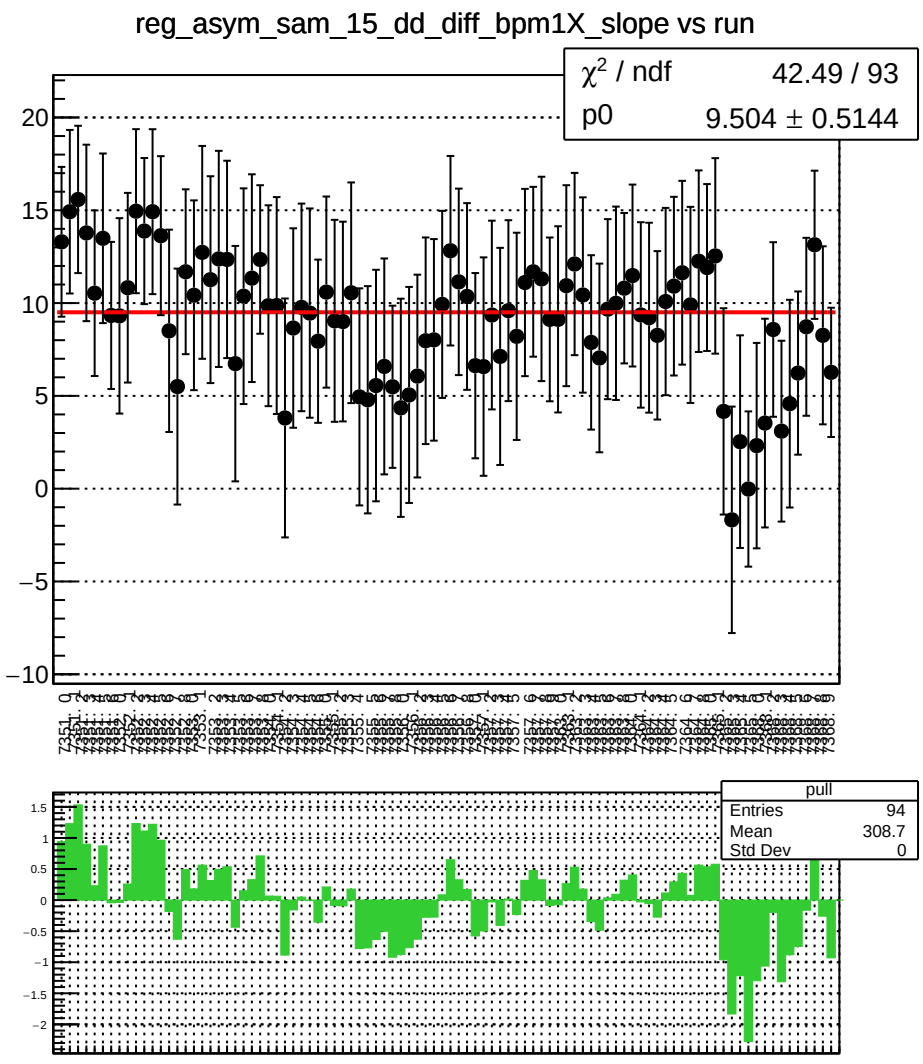

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 340.6 / 93
p0 −22.99 ± 0.2956
pull
Entries 94
Mean 402.8
Std Dev 0
pull1D
Entries 94
Mean 0.06322
Std Dev 1.903

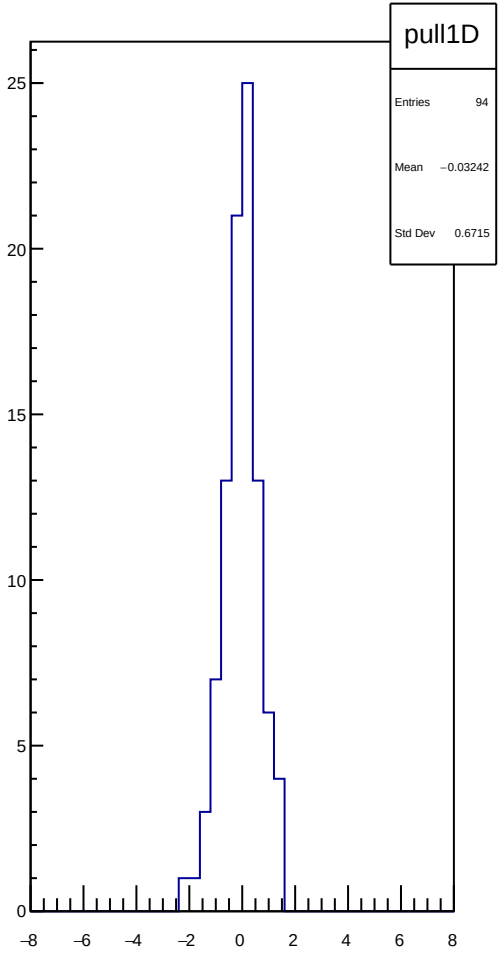

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 166.5 / 93
p0 8.2 ± 0.2841
pull
Entries 94
Mean −49.56
Std Dev 0
pull1D
Entries 94
Mean 0.07427
Std Dev 1.329

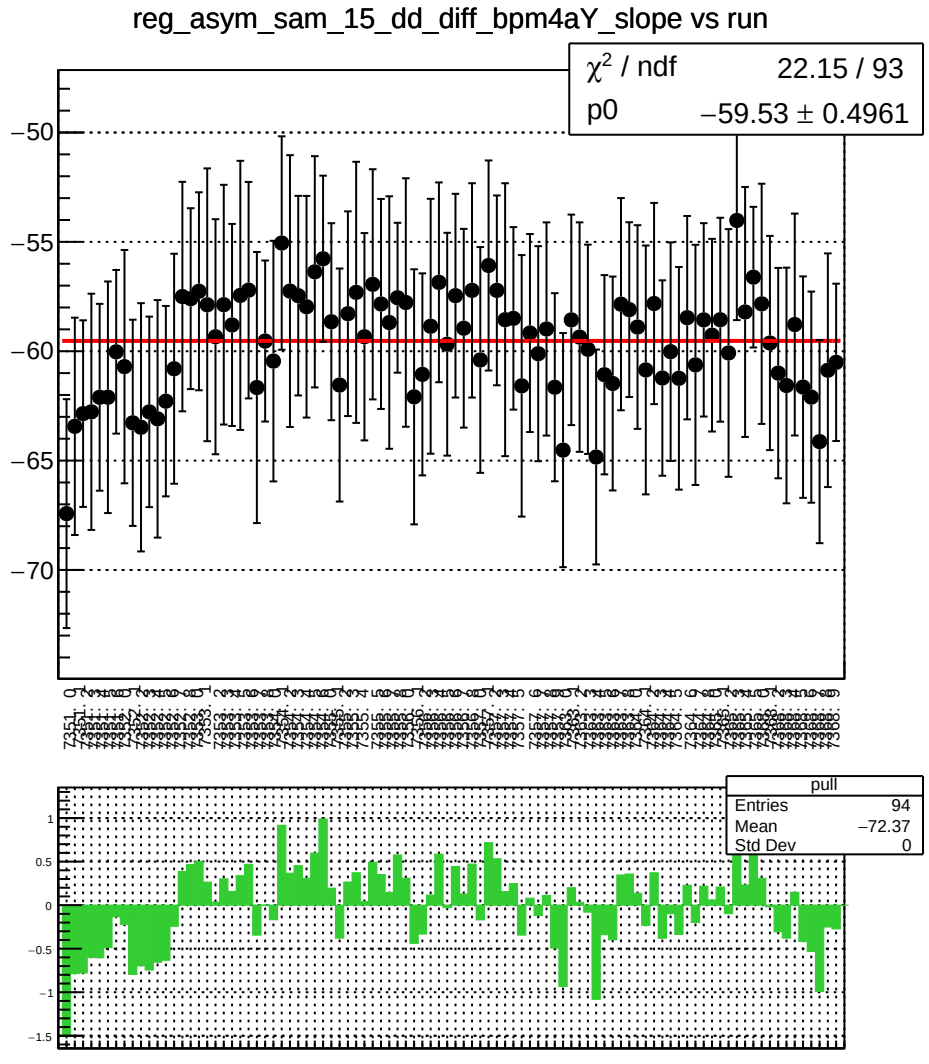

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 302.3 / 93
p0 14.51 ± 0.2939
pull
Entries 94
Mean 303.1
Std Dev 0
pull1D
Entries 94
Mean −0.07716
Std Dev 1.792

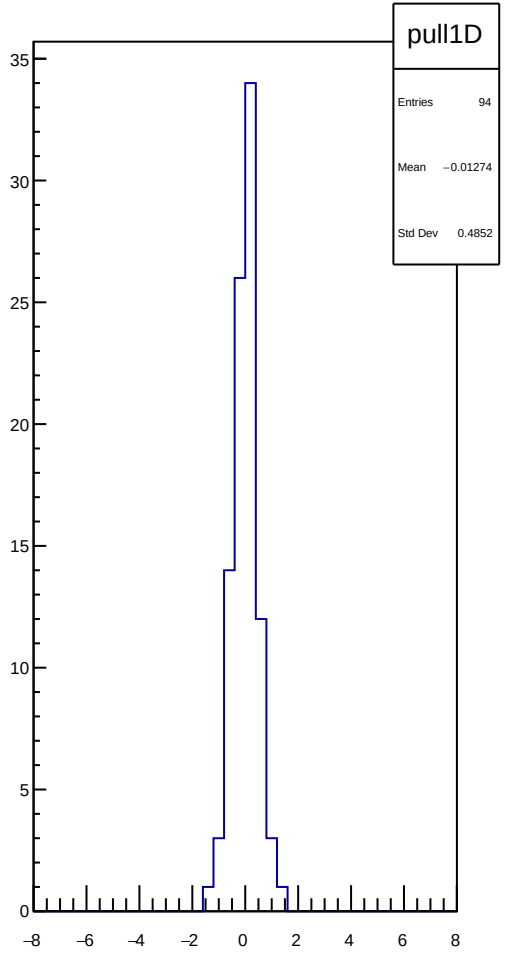

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 117.4 / 93
p0 46.39 ± 0.3007
55
50
45
40
35
pull
Entries 94
Mean −230.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.02095
Std Dev 1.117
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

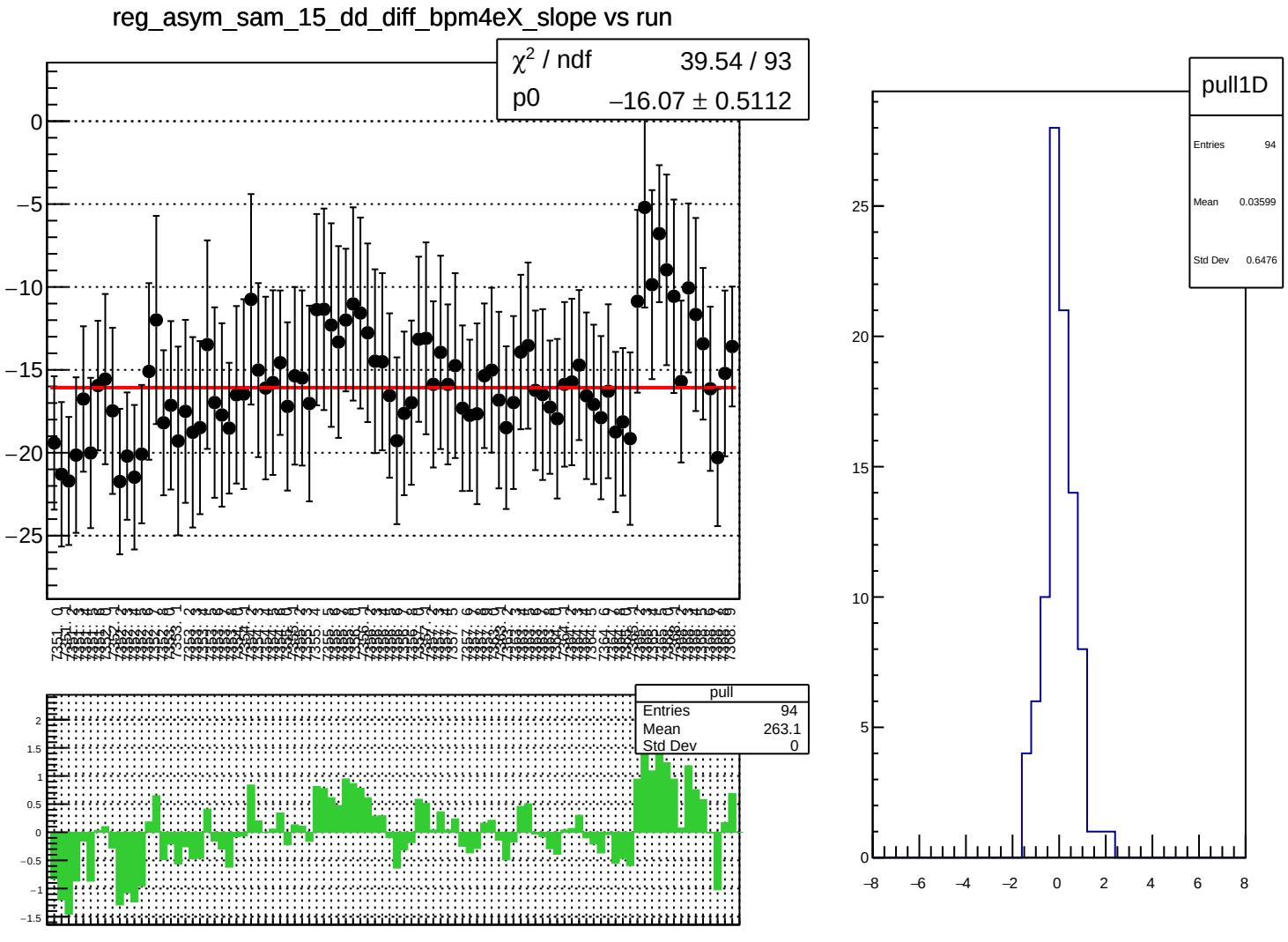

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 63.07 / 93
p0 −0.1797 ± 0.01383
pull
Entries 94
Mean −423.7
Std Dev 0
pull1D
Entries 94
Mean −0.01909
Std Dev 0.8189

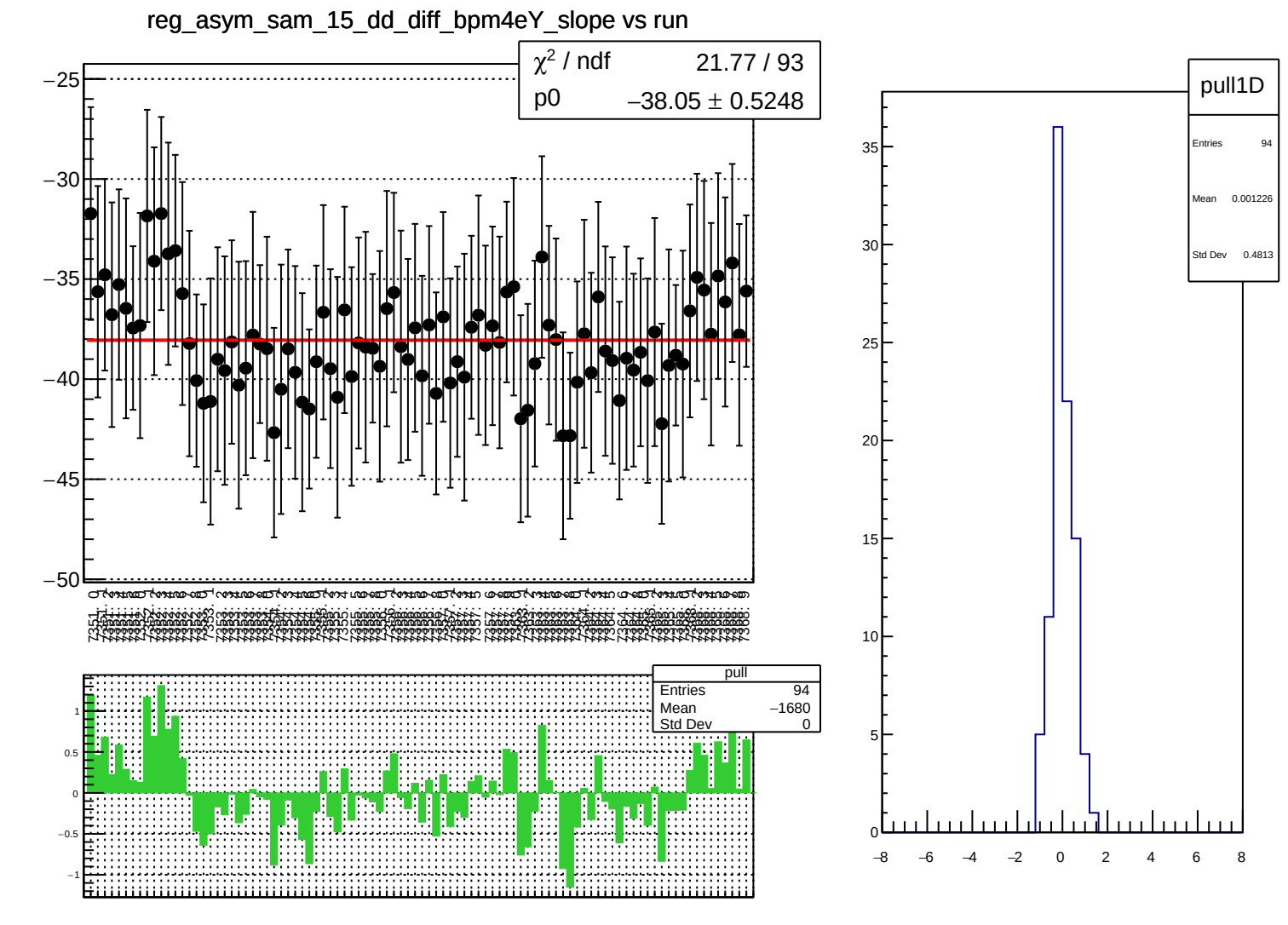

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 42.49 / 93
p0 9.504 ± 0.5144
pull
Entries 94
Mean 308.7
Std Dev 0

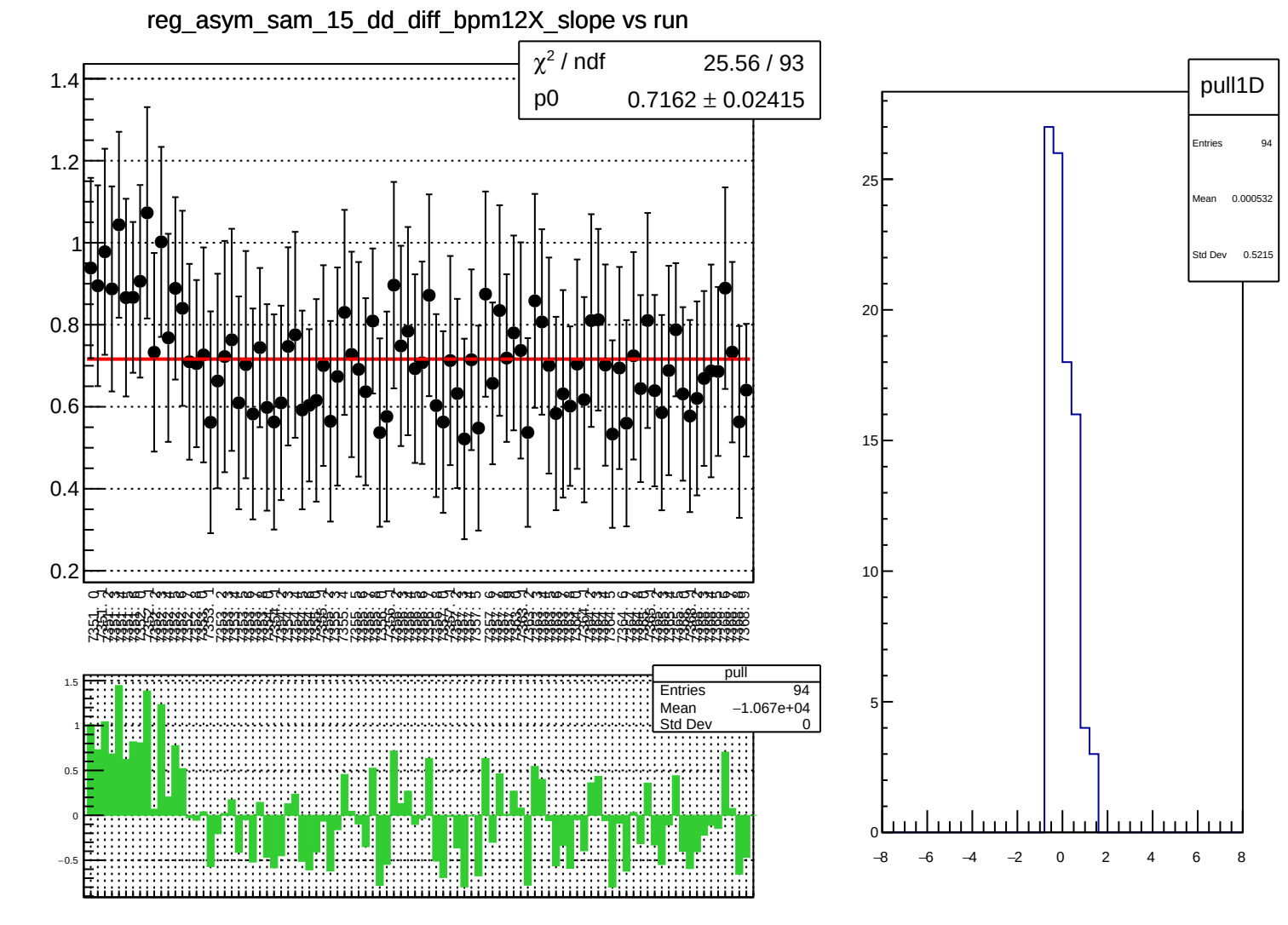

pull1D
Entries 94
Mean −0.03242
Std Dev 0.6715

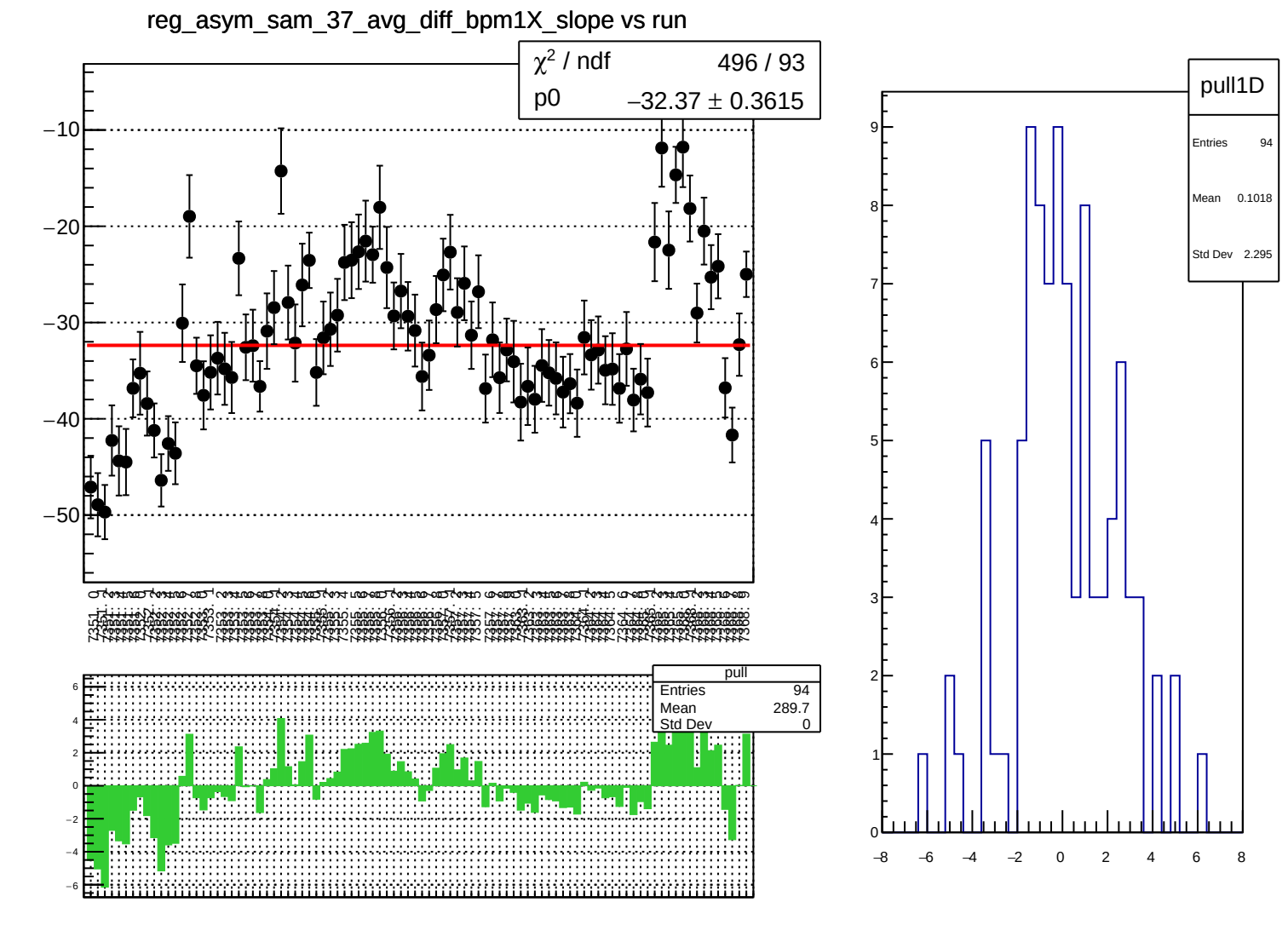

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 22.15 / 93
p0 −59.53 ± 0.4961
−50
−55
−60
−65
−70
pull
Entries 94
Mean −72.37
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

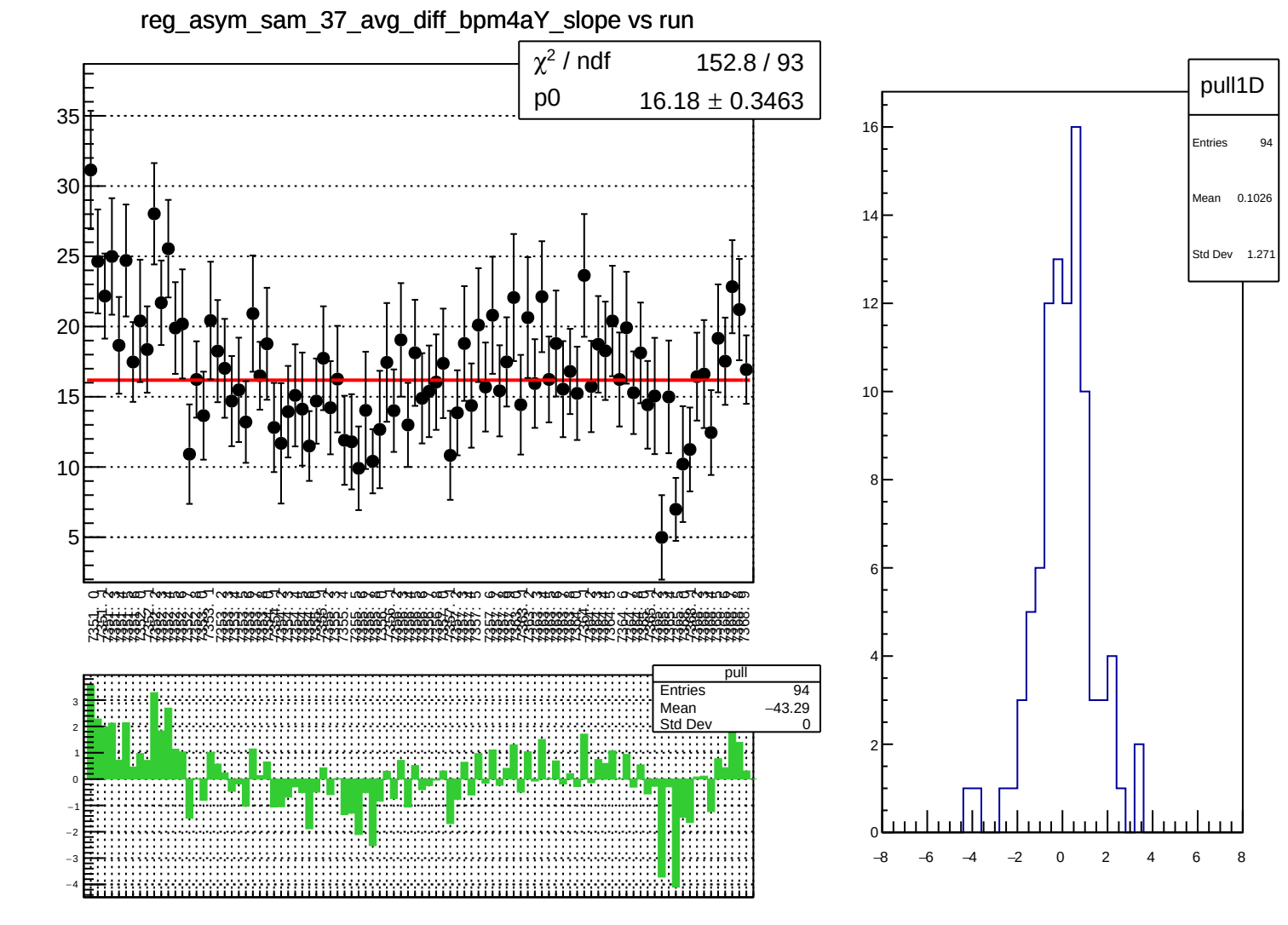

pull1D
Entries 94
Mean −0.01274
Std Dev 0.4852
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

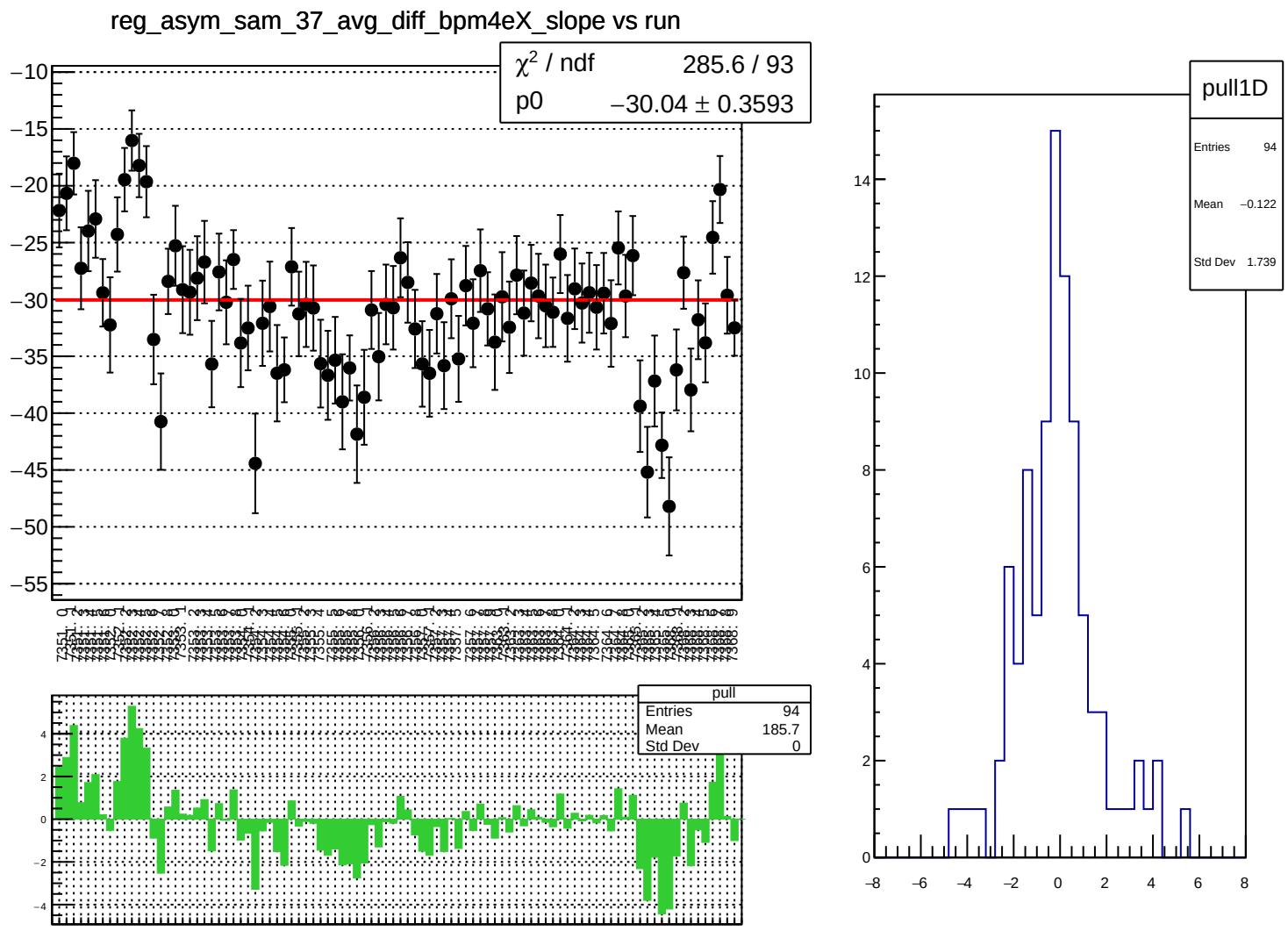

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 39.54 / 93
p0 −16.07 ± 0.5112
pull
Entries 94
Mean 263.1
Std Dev 0
pull1D
Entries 94
Mean 0.03599
Std Dev 0.6476

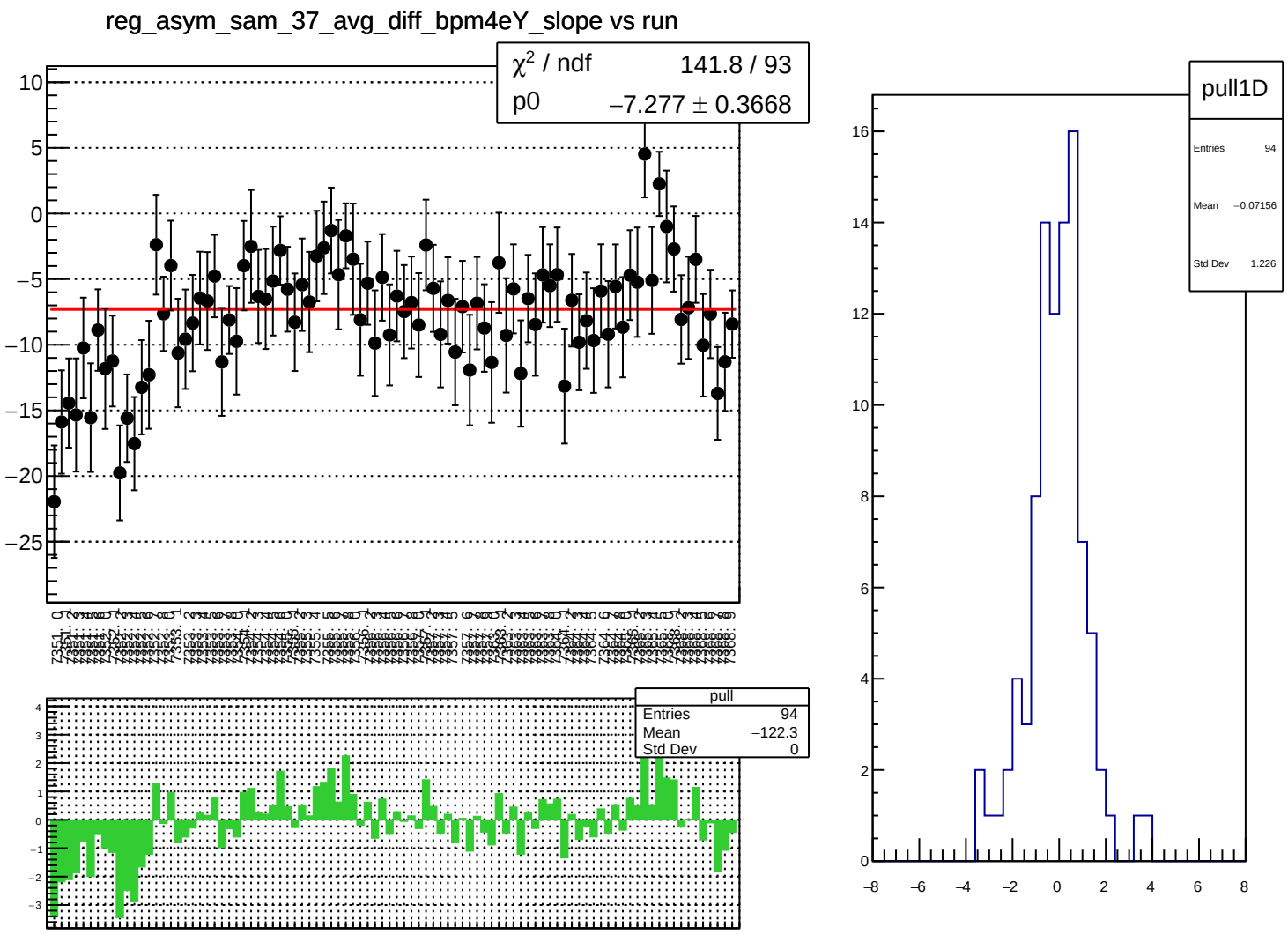

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 21.77 / 93
p0 −38.05 ± 0.5248
pull
Entries 94
Mean −1680
Std Dev 0
pull1D
Entries 94
Mean 0.001226
Std Dev 0.4813

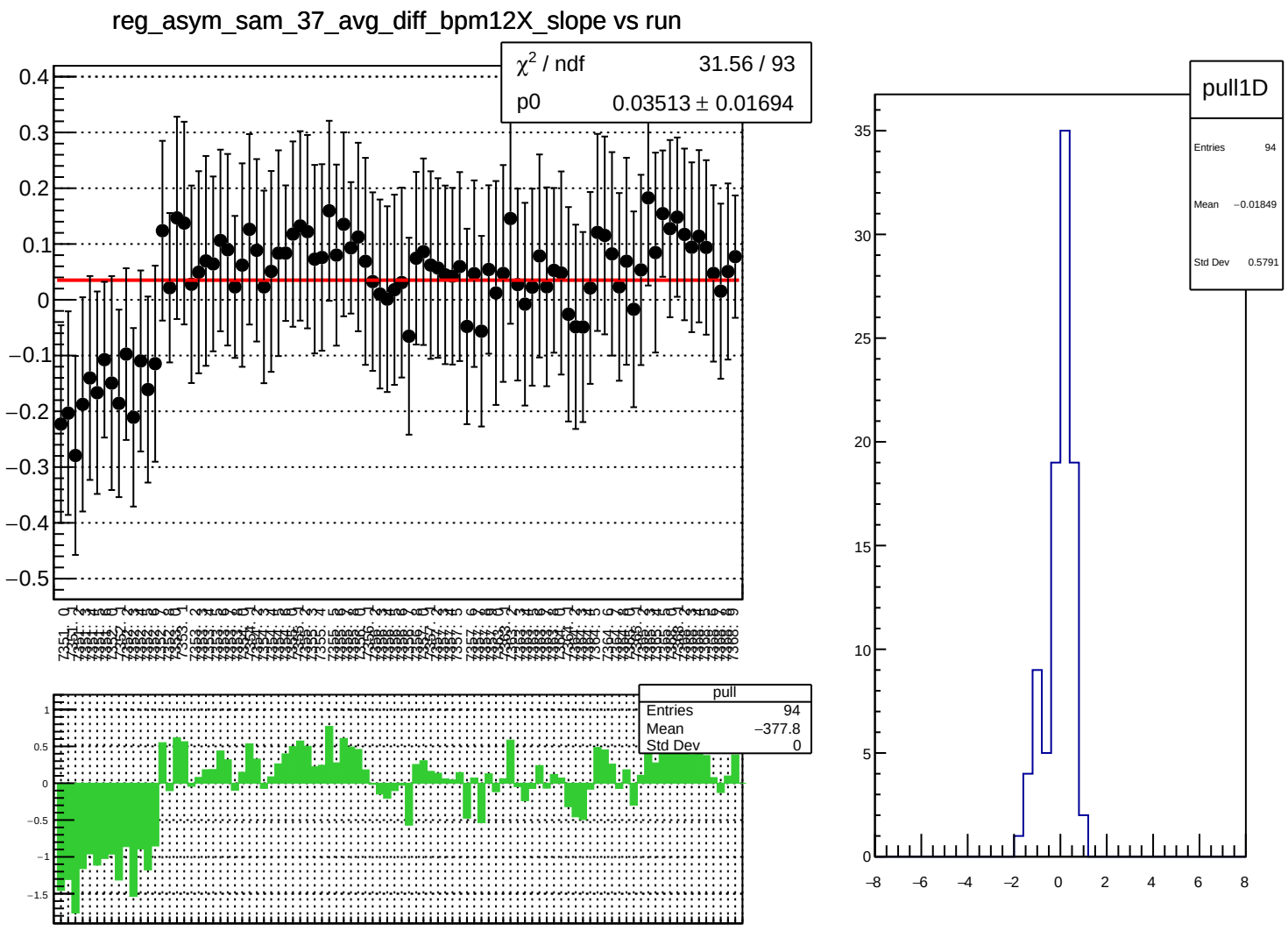

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 25.56 / 93
p0 0.7162 ± 0.02415
pull
Entries 94
Mean −1.067e+04
Std Dev 0
pull1D
Entries 94
Mean 0.000532
Std Dev 0.5215

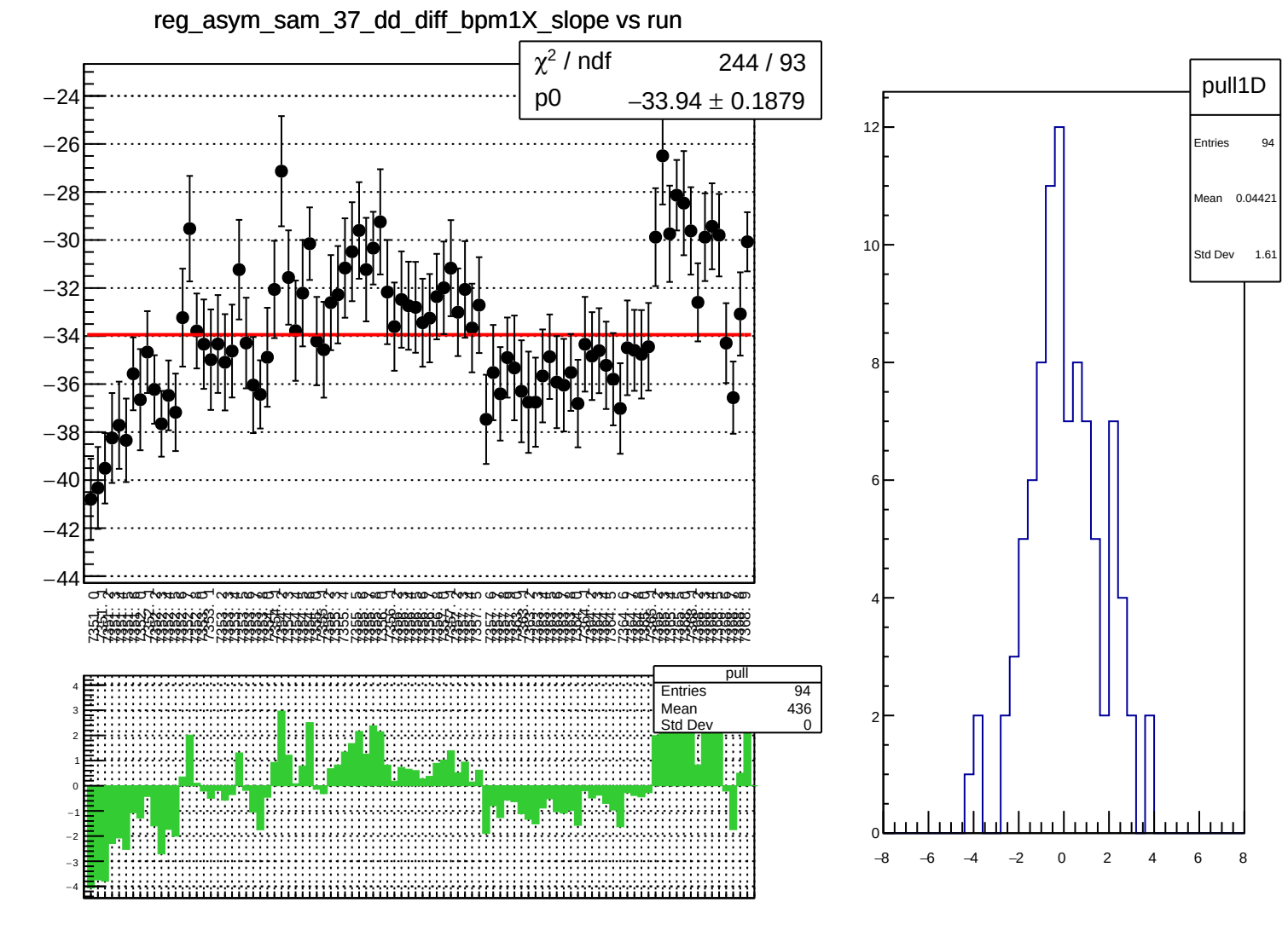

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 496 / 93
p0 −32.37 ± 0.3615
pull
Entries 94
Mean 289.7
Std Dev 0
pull1D
Entries 94
Mean 0.1018
Std Dev 2.295

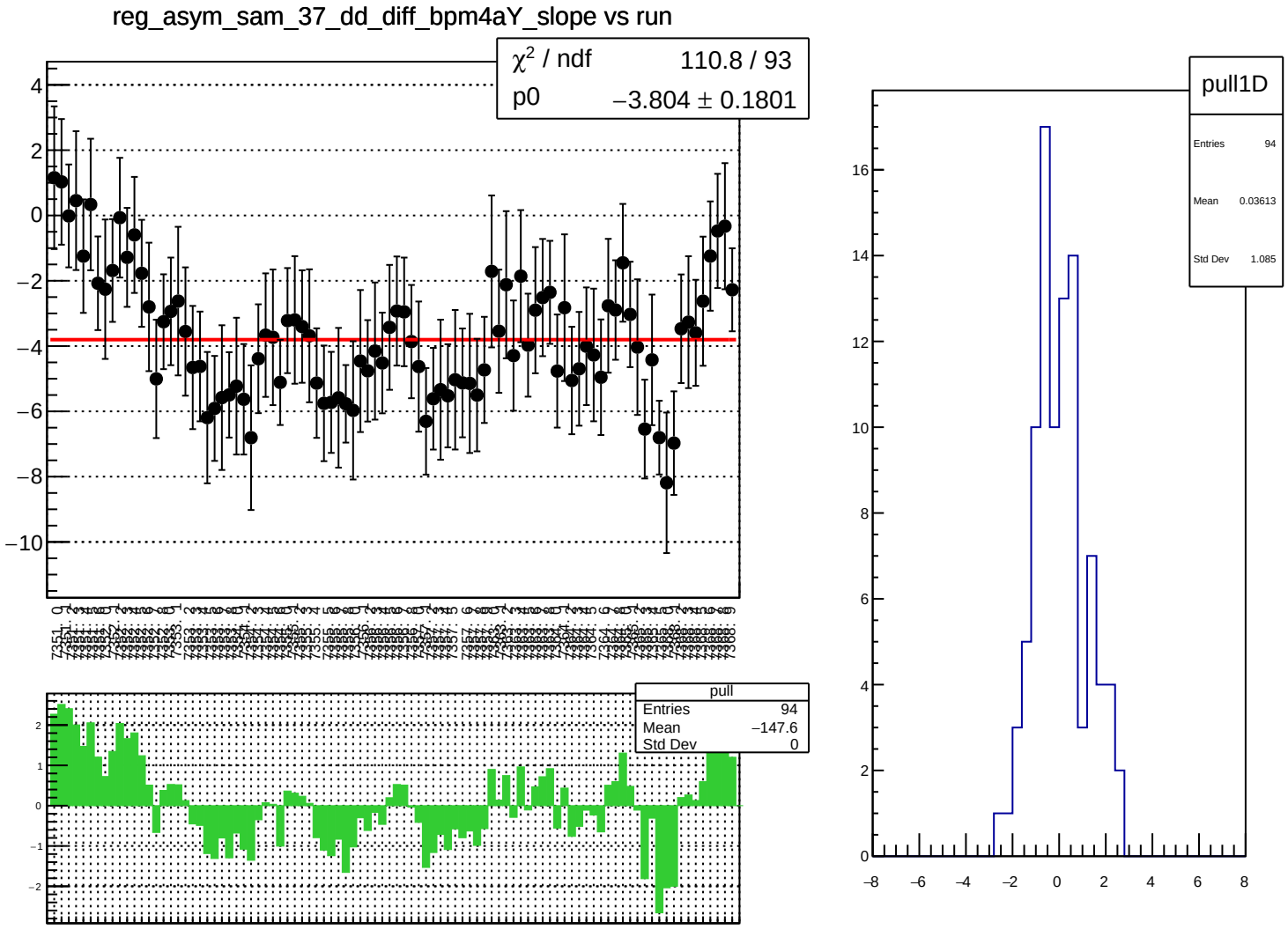

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 152.8 / 93
p0 16.18 ± 0.3463
pull
Entries 94
Mean −43.29
Std Dev 0
pull1D
Entries 94
Mean 0.1026
Std Dev 1.271

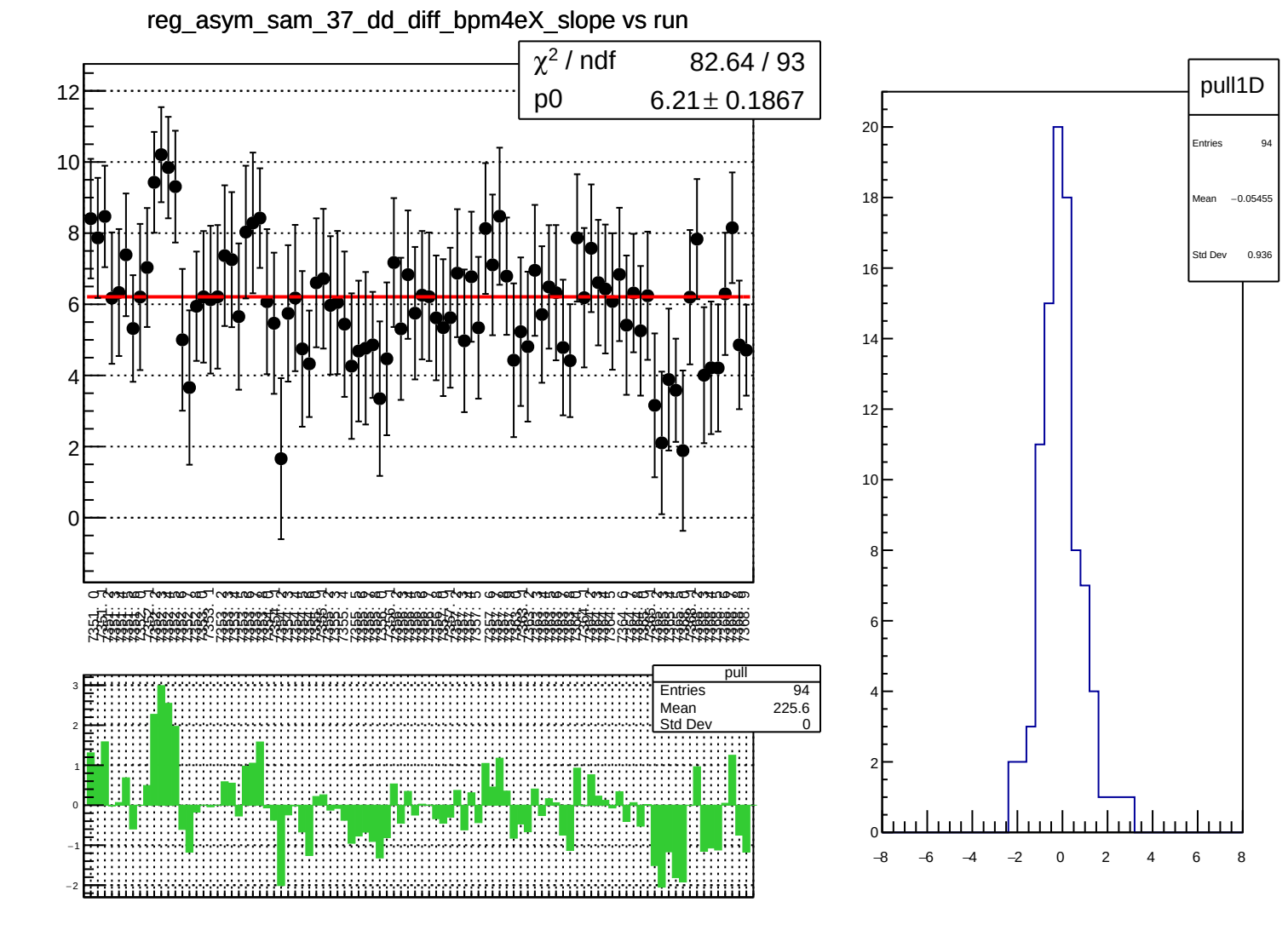

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 285.6 / 93
p0 −30.04 ± 0.3593
pull
Entries 94
Mean 185.7
Std Dev 0
pull1D
Entries 94
Mean −0.122
Std Dev 1.739

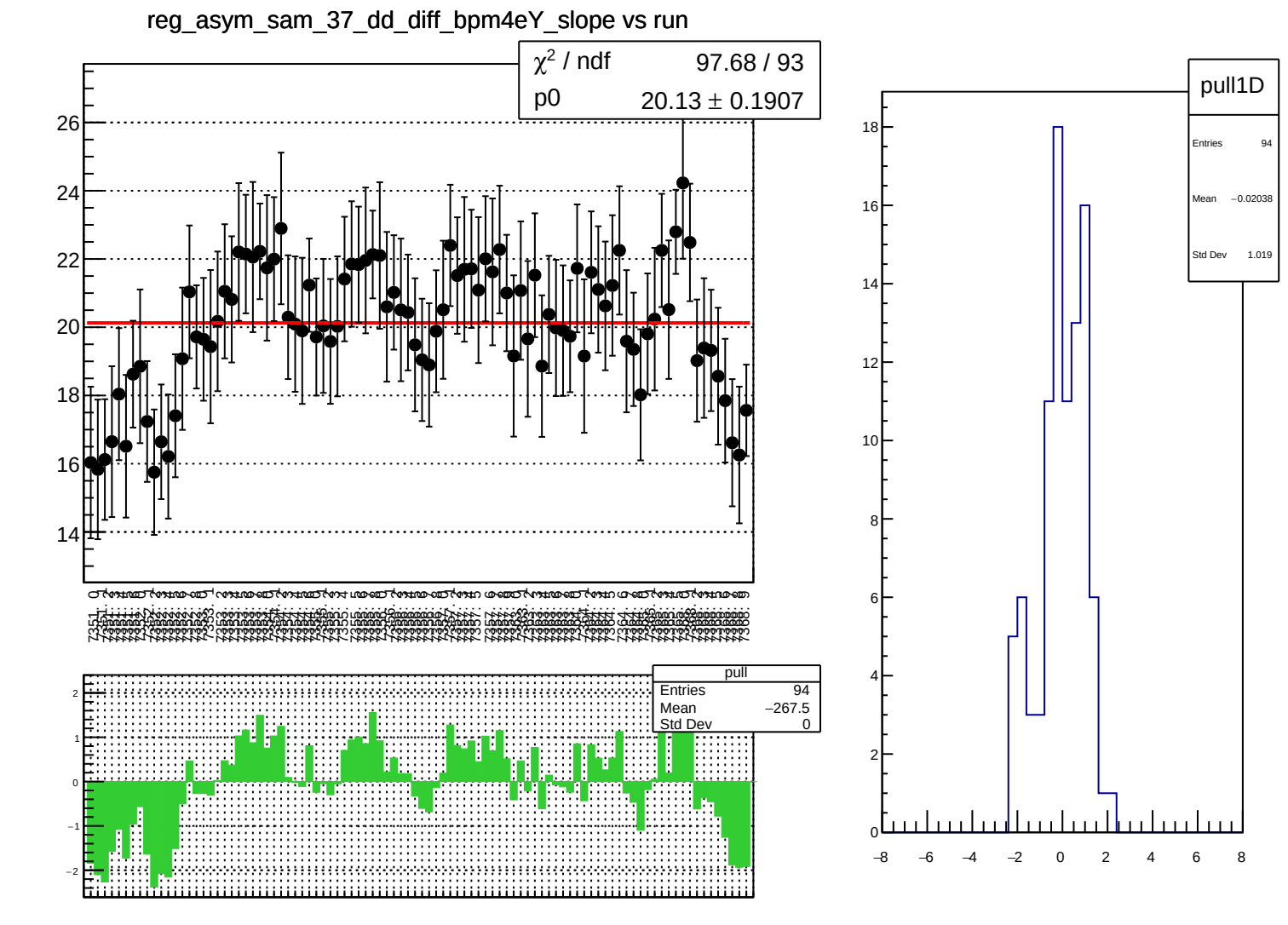

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 141.8 / 93
p0 −7.277 ± 0.3668
pull
Entries 94
Mean −122.3
Std Dev 0
pull1D
Entries 94
Mean −0.07156
Std Dev 1.226

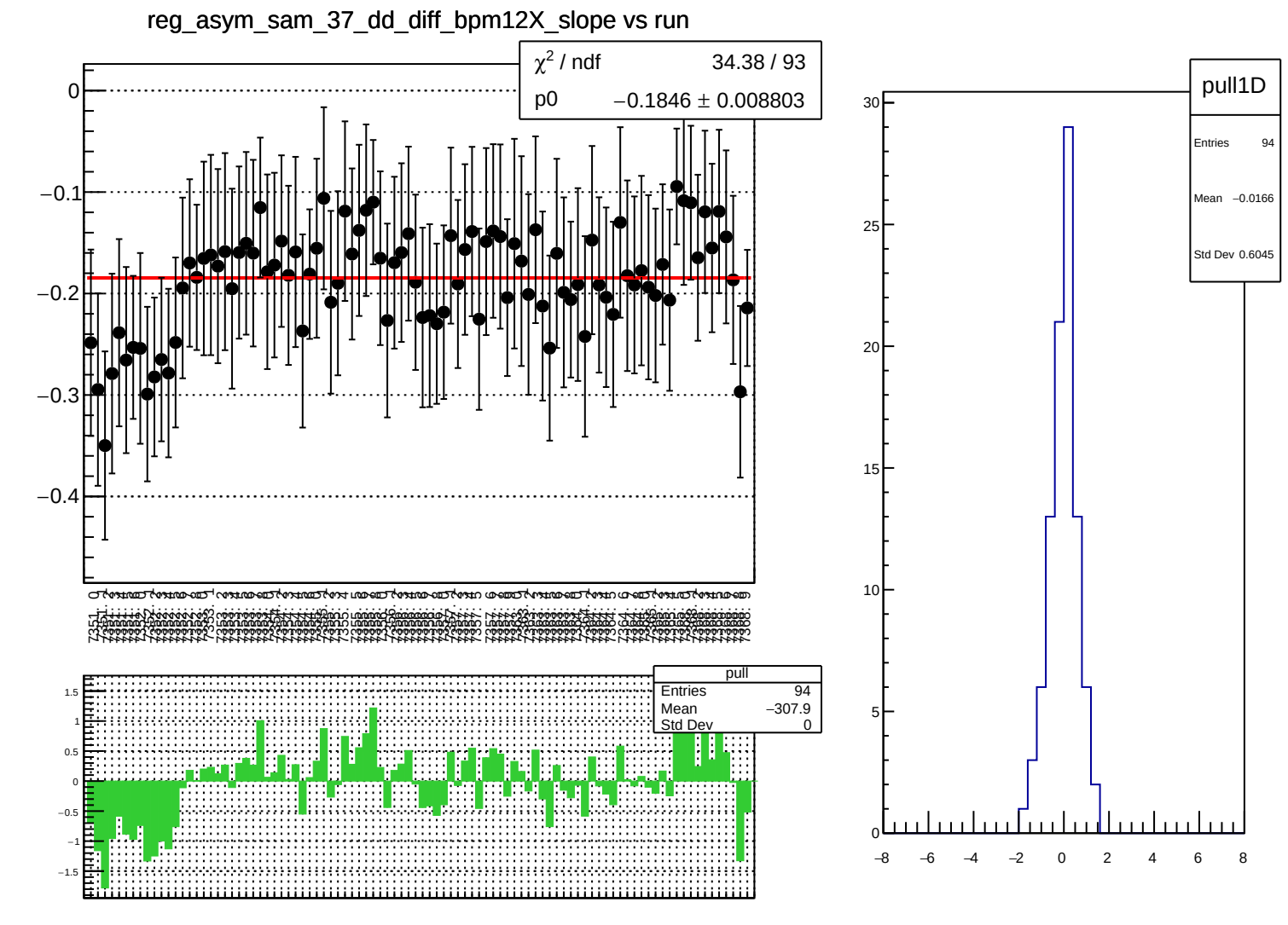

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 31.56 / 93
p0 0.03513 ± 0.01694
pull
Entries 94
Mean −377.8
Std Dev 0
pull1D
Entries 94
Mean −0.01849
Std Dev 0.5791

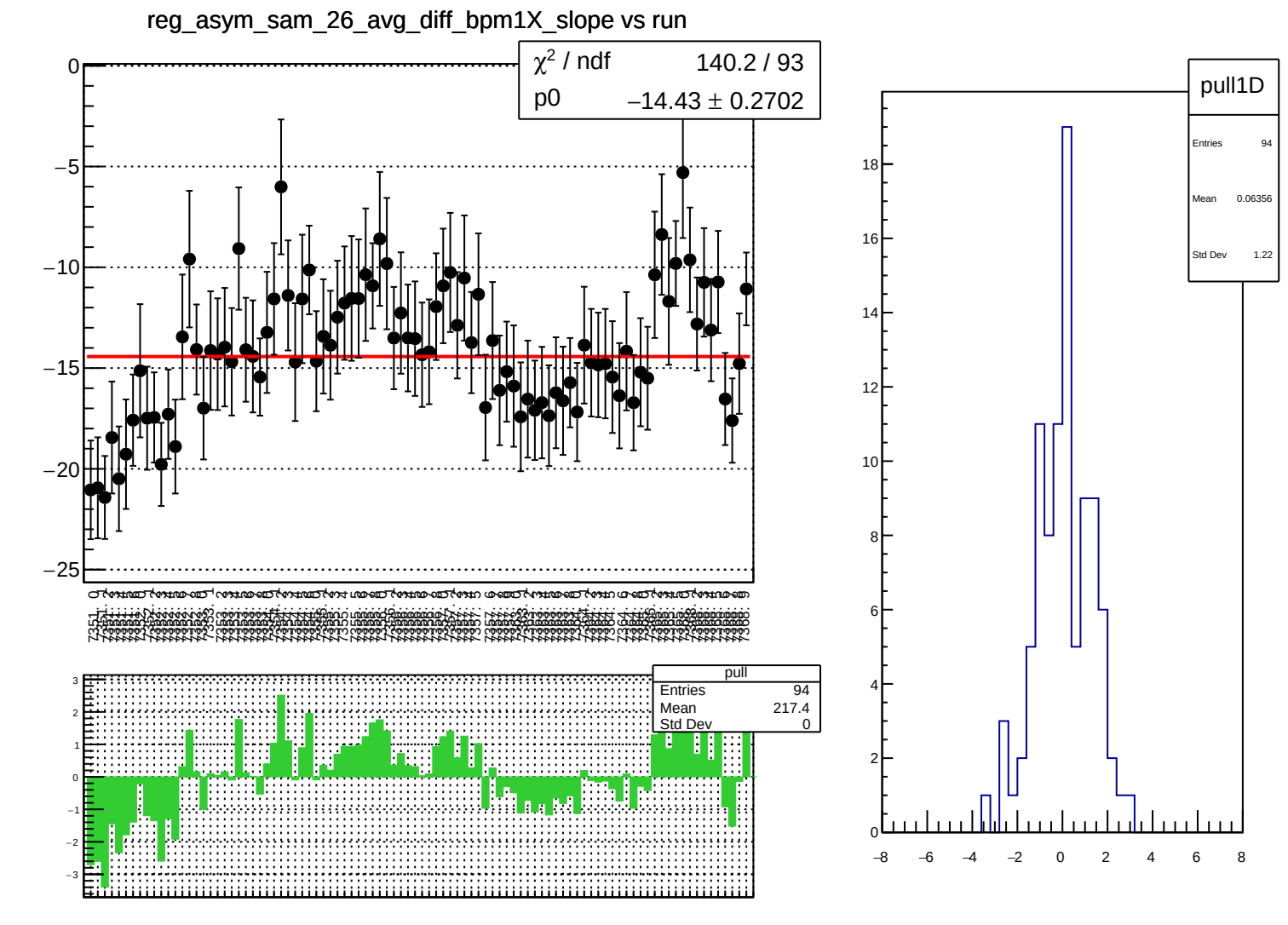

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 244 / 93
p0 −33.94 ± 0.1879
pull
Entries 94
Mean 436
Std Dev 0
pull1D
Entries 94
Mean 0.04421
Std Dev 1.61

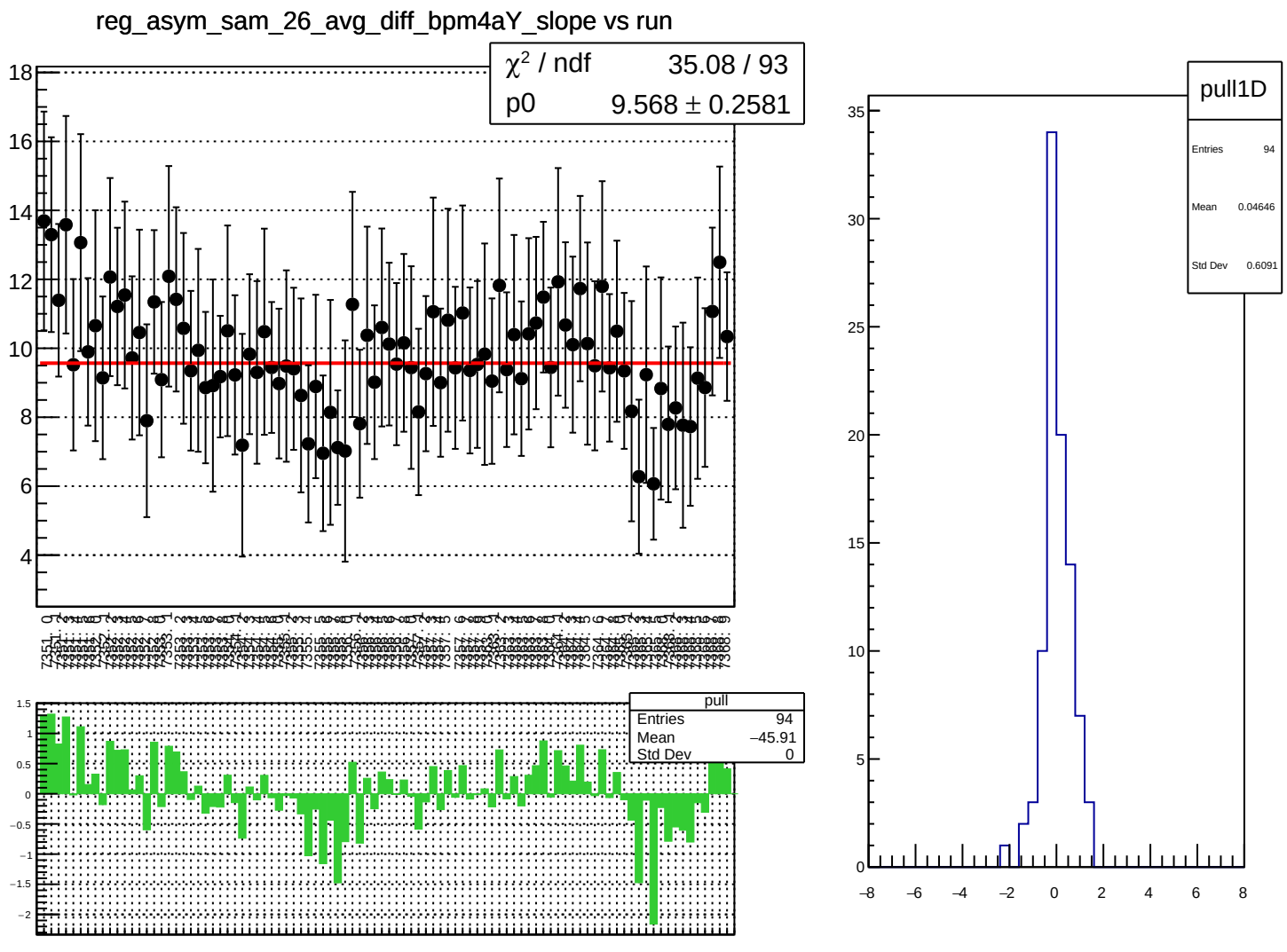

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 110.8 / 93
p0 −3.804 ± 0.1801
pull
Entries 94
Mean −147.6
Std Dev 0
pull1D
Entries 94
Mean 0.03613
Std Dev 1.085

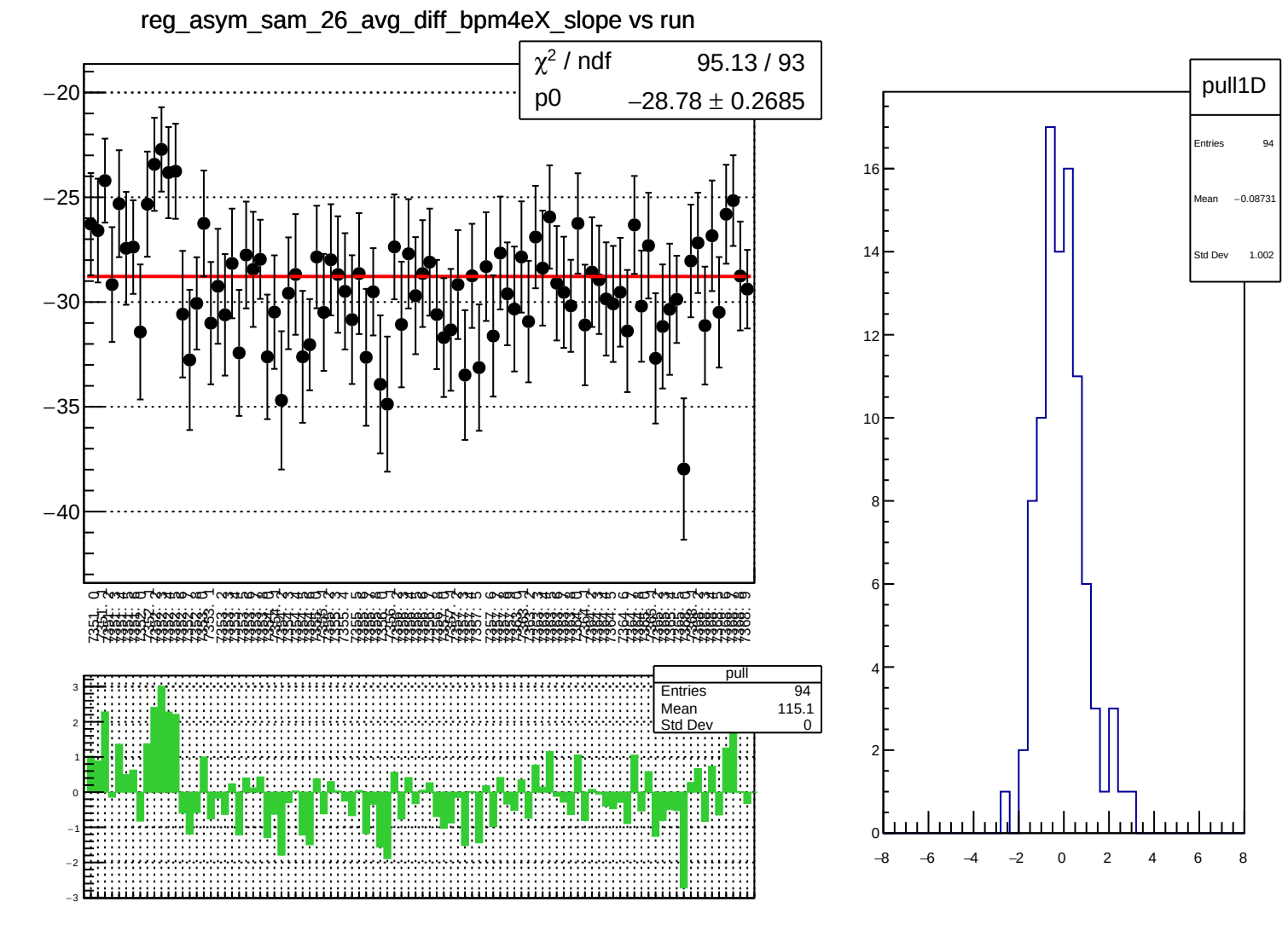

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 82.64 / 93
p0 6.21 ± 0.1867
pull
Entries 94
Mean 225.6
Std Dev 0
pull1D
Entries 94
Mean −0.05455
Std Dev 0.936

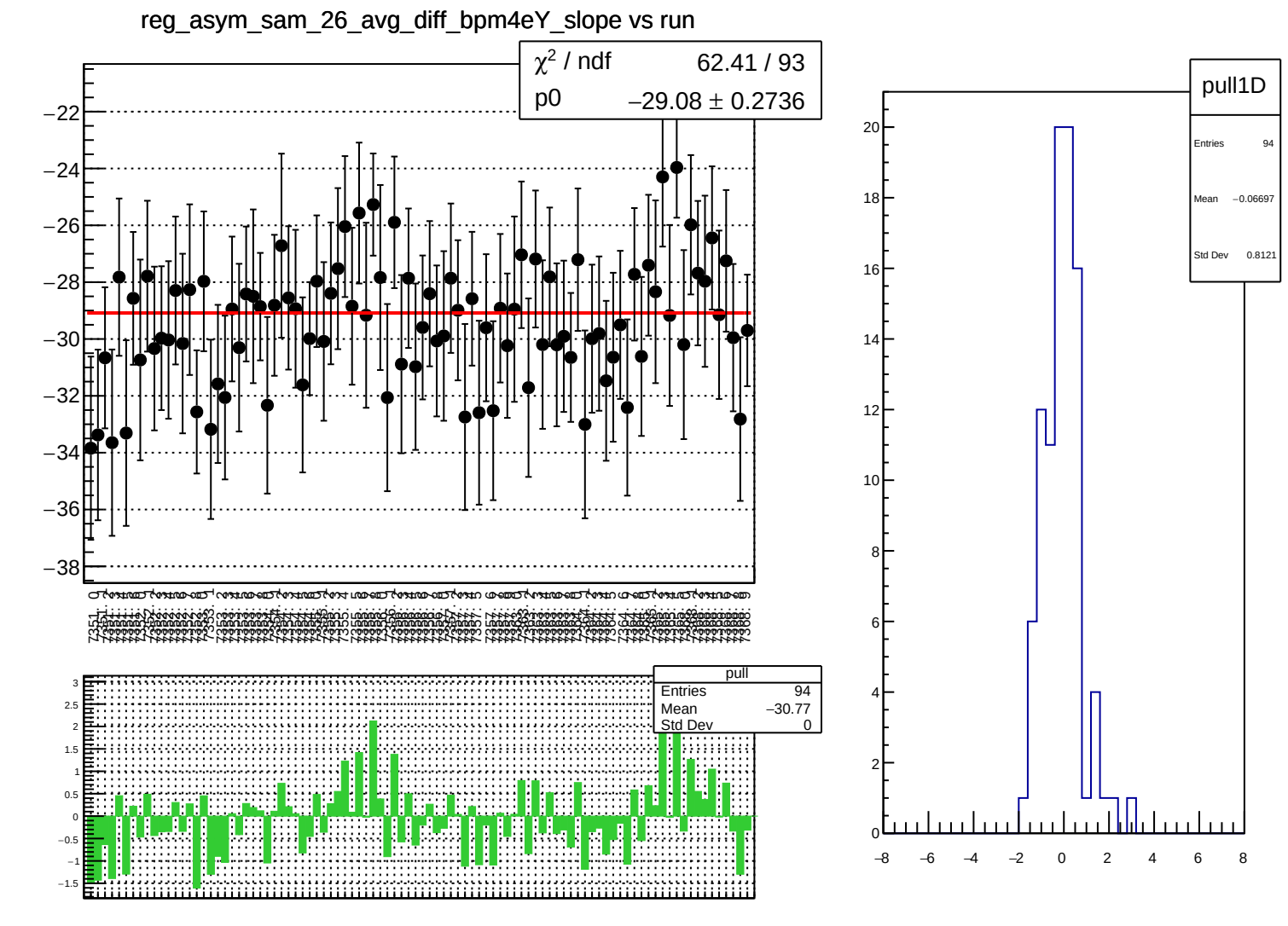

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 97.68 / 93
p0 20.13 ± 0.1907
pull
Entries 94
Mean −267.5
Std Dev 0
pull1D
Entries 94
Mean −0.02038
Std Dev 1.019

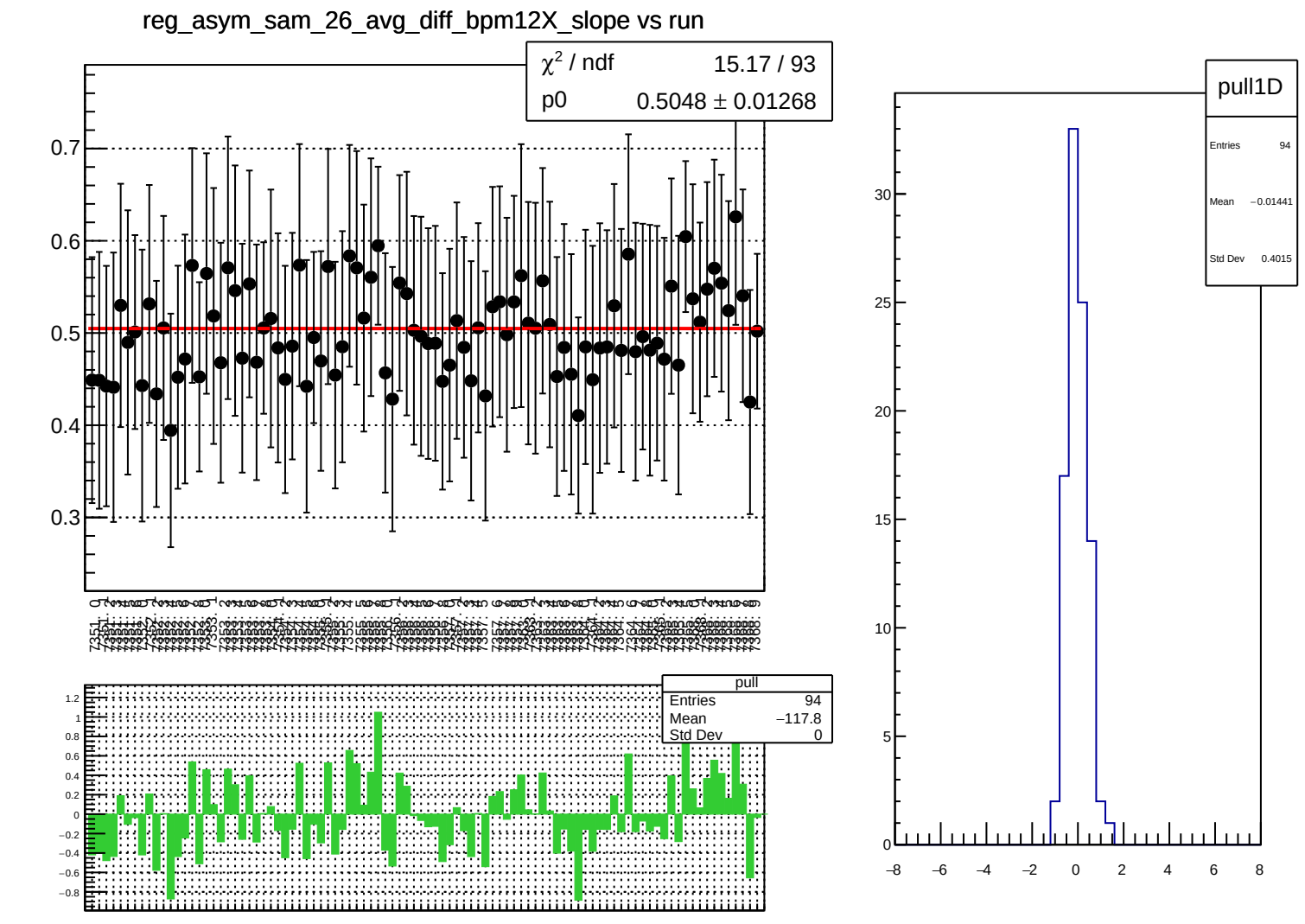

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 34.38 / 93
p0 −0.1846 ± 0.008803
0
−0.1
−0.2
−0.3
−0.4
pull
Entries 94
Mean −307.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 94
Mean −0.0166
Std Dev 0.6045
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

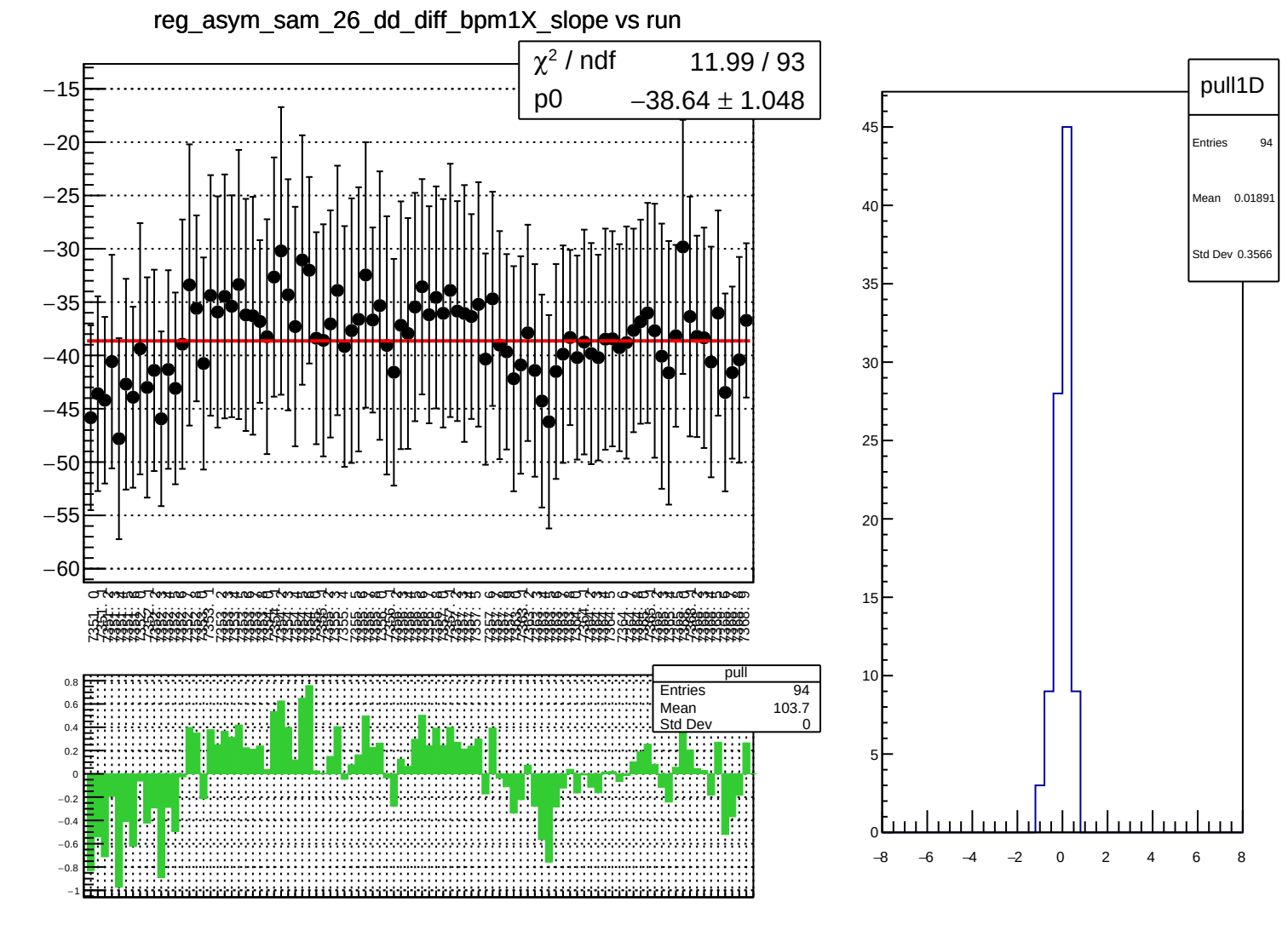

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 140.2 / 93
p0 −14.43 ± 0.2702
pull
Entries 94
Mean 217.4
Std Dev 0
pull1D
Entries 94
Mean 0.06356
Std Dev 1.22

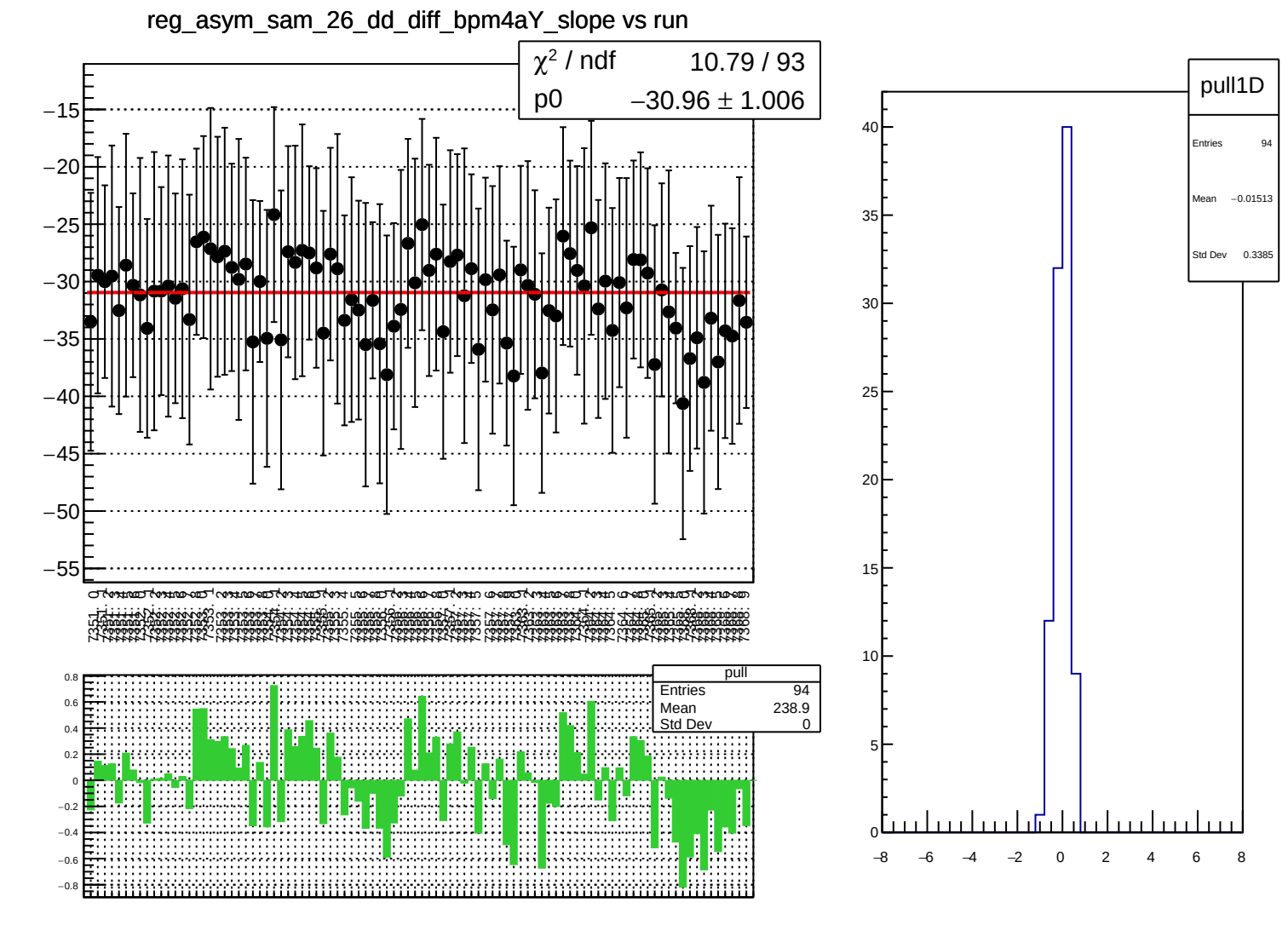

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 35.08 / 93
p0 9.568 ± 0.2581
pull
Entries 94
Mean −45.91
Std Dev 0
pull1D
Entries 94
Mean 0.04646
Std Dev 0.6091

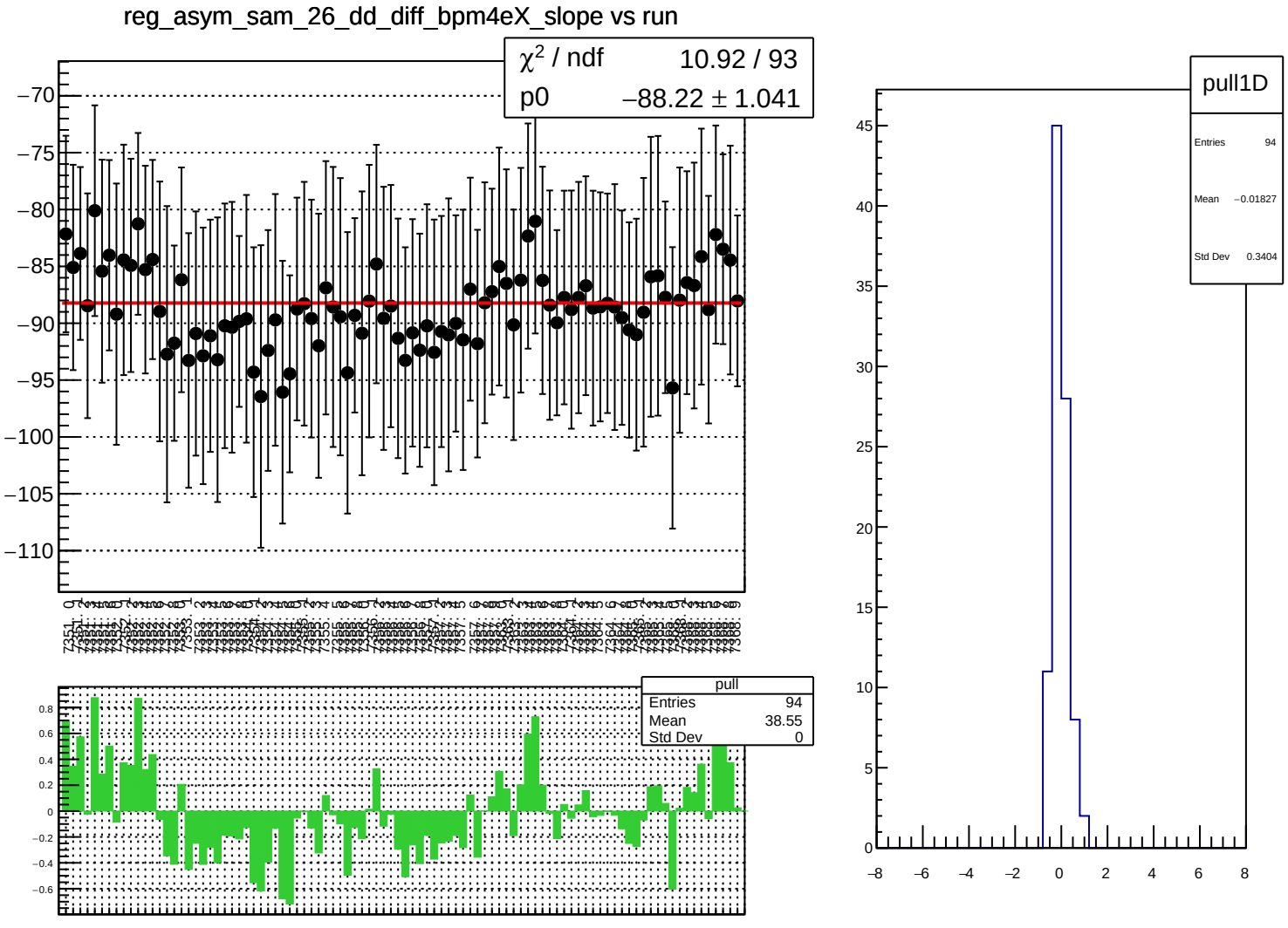

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 95.13 / 93
p0 −28.78 ± 0.2685
−20
−25
−30
−35
−40
pull
Entries 94
Mean 115.1
Std Dev 0
pull1D
Entries 94
Mean −0.08731
Std Dev 1.002

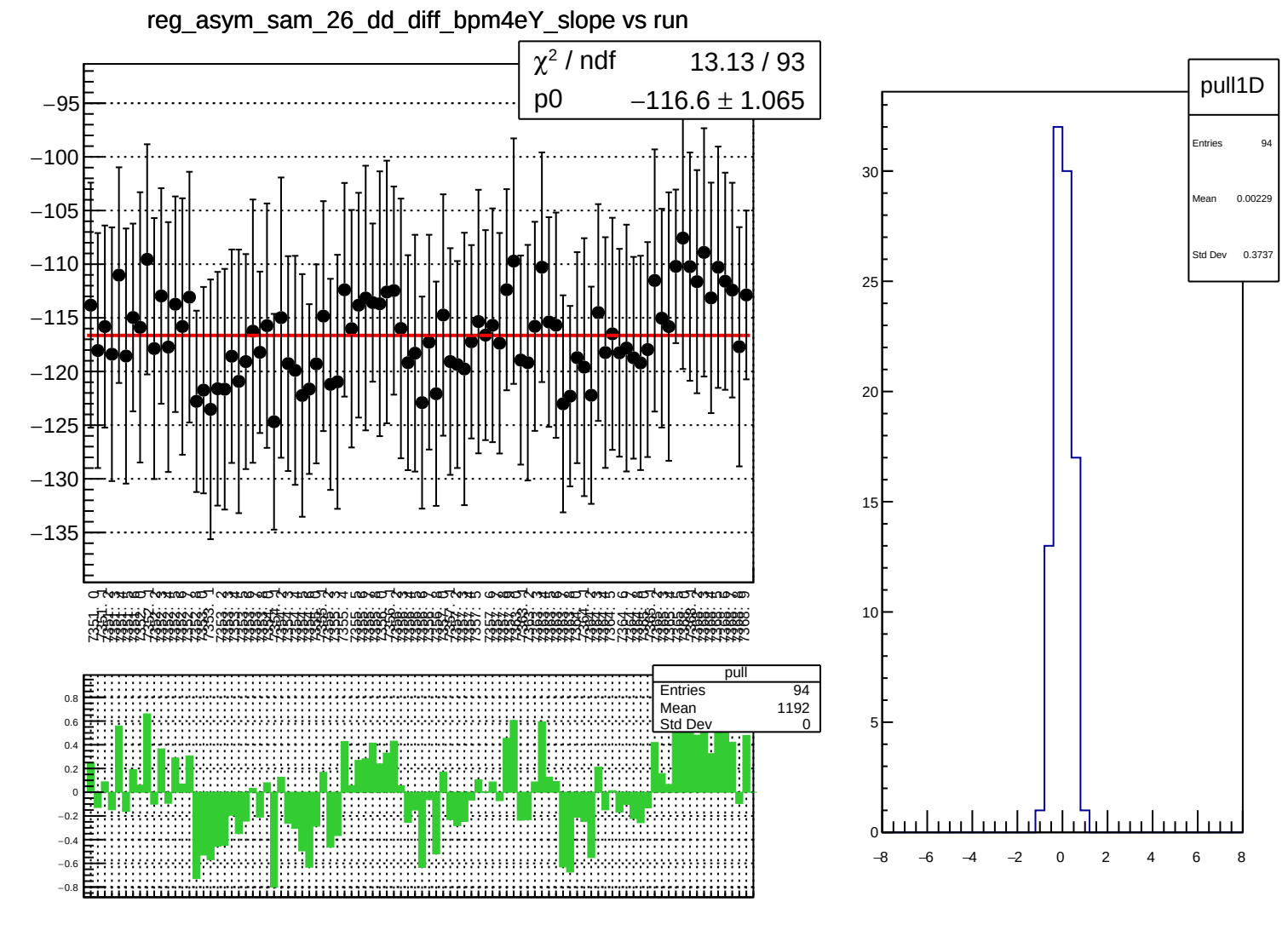

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 62.41 / 93
p0 −29.08 ± 0.2736
pull
Entries 94
Mean −30.77
Std Dev 0
pull1D
Entries 94
Mean −0.06697
Std Dev 0.8121

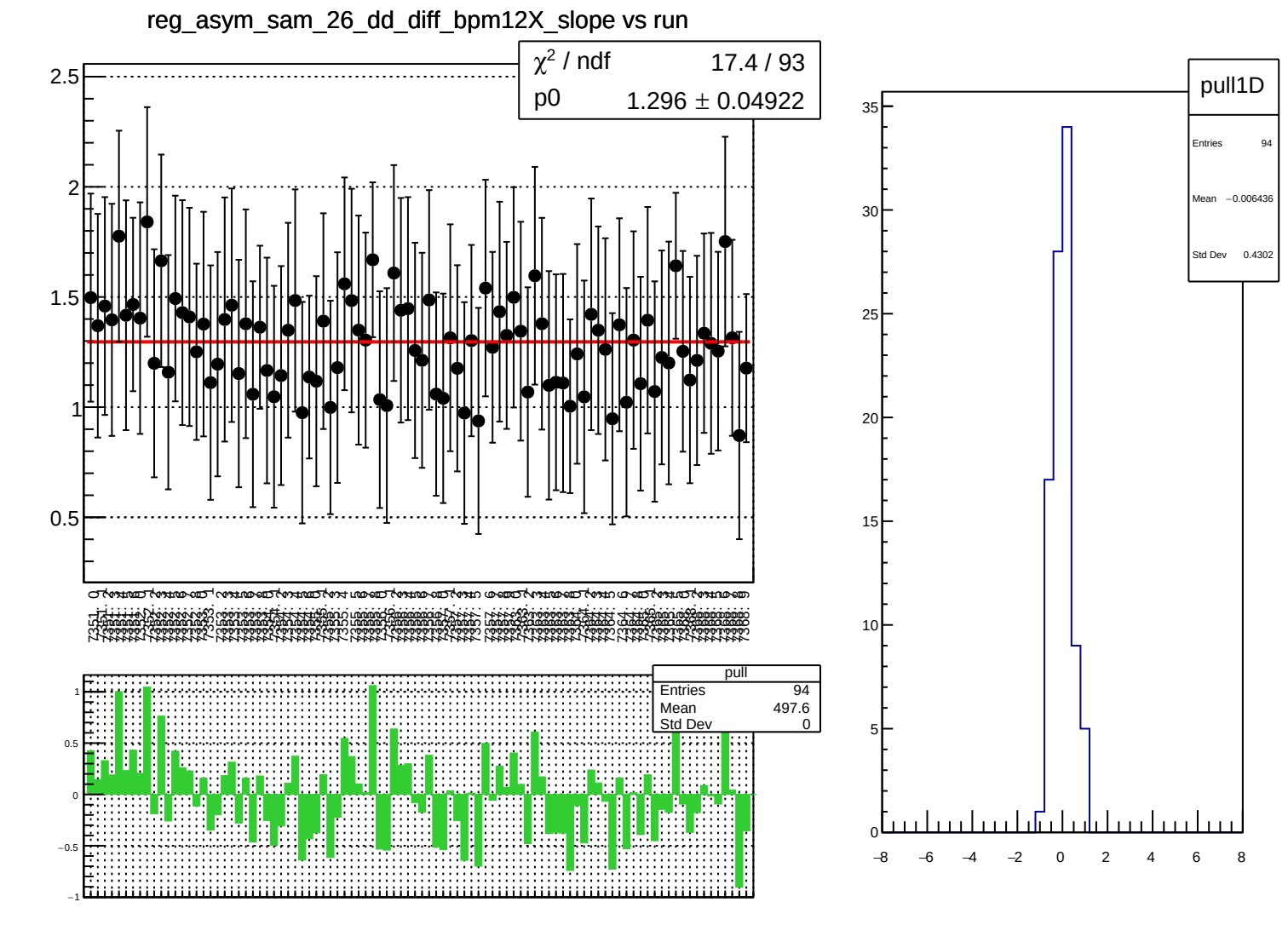

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 15.17 / 93
p0 0.5048 ± 0.01268
0.7
0.6
0.5
0.4
0.3
pull
Entries 94
Mean −117.8
Std Dev 0
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 94
Mean −0.01441
Std Dev 0.4015
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

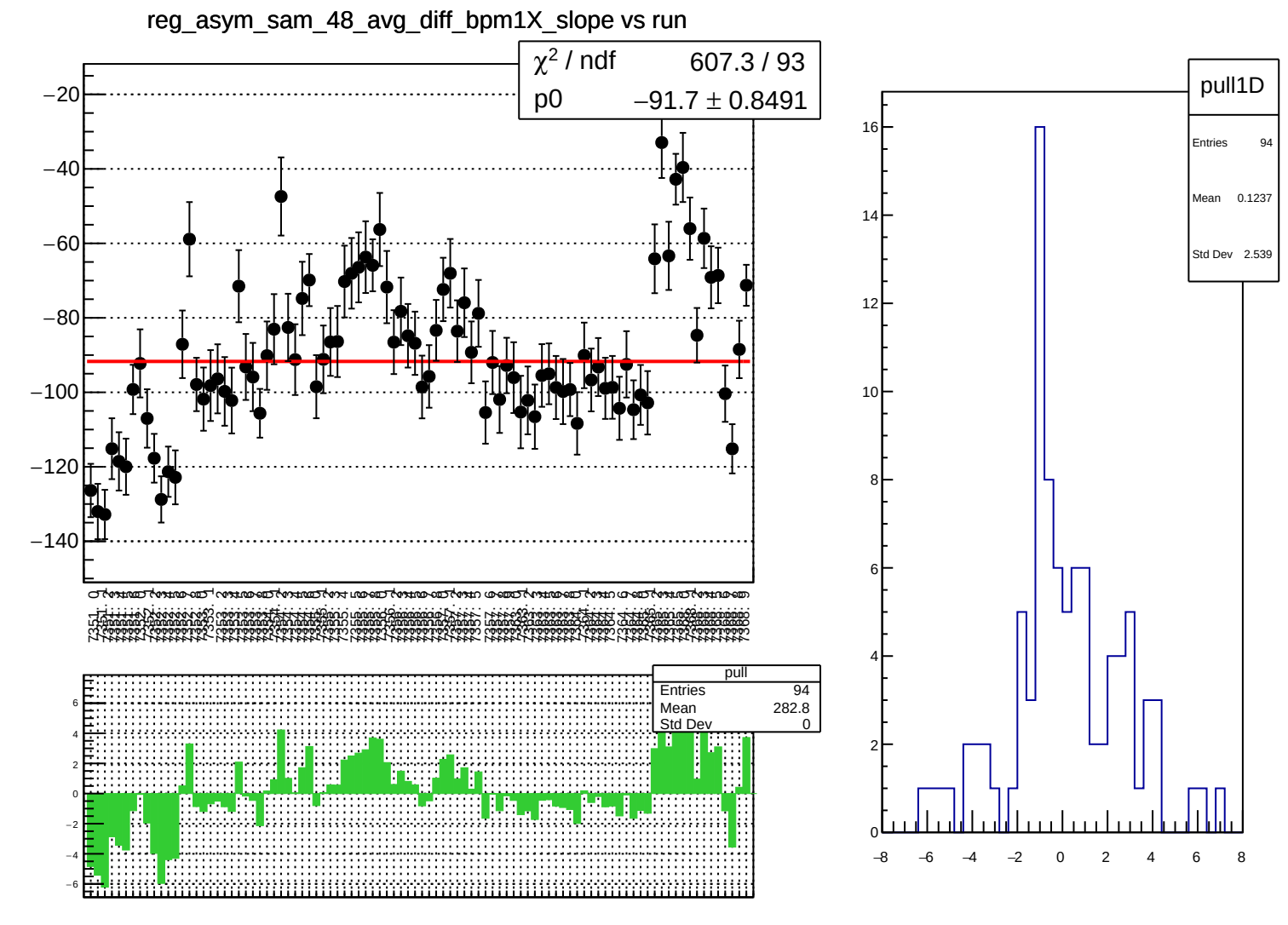

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 11.99 / 93
p0 −38.64 ± 1.048
pull
Entries 94
Mean 103.7
Std Dev 0
pull1D
Entries 94
Mean 0.01891
Std Dev 0.3566

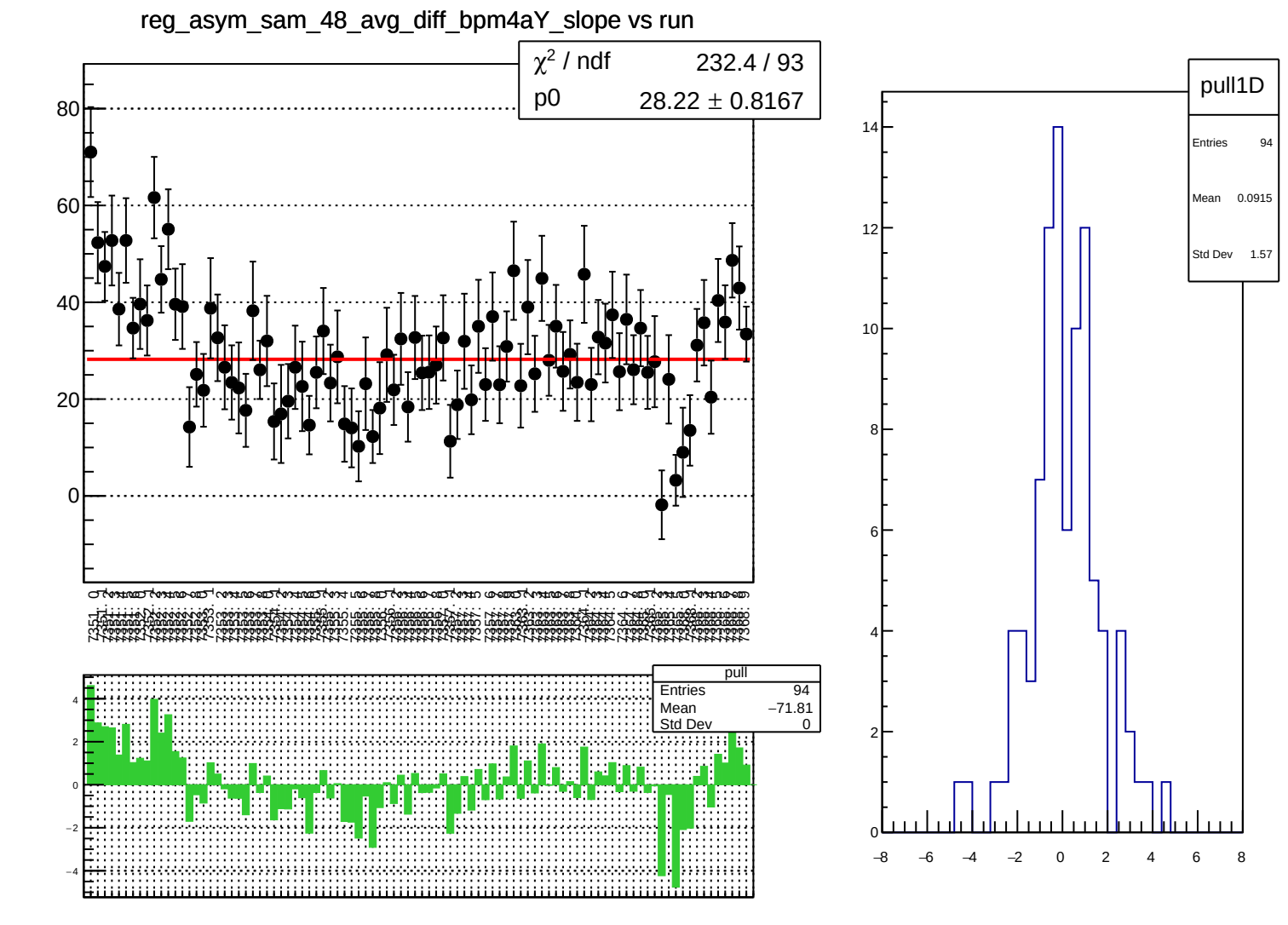

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.79 / 93
p0 −30.96 ± 1.006
pull
Entries 94
Mean 238.9
Std Dev 0
pull1D
Entries 94
Mean −0.01513
Std Dev 0.3385

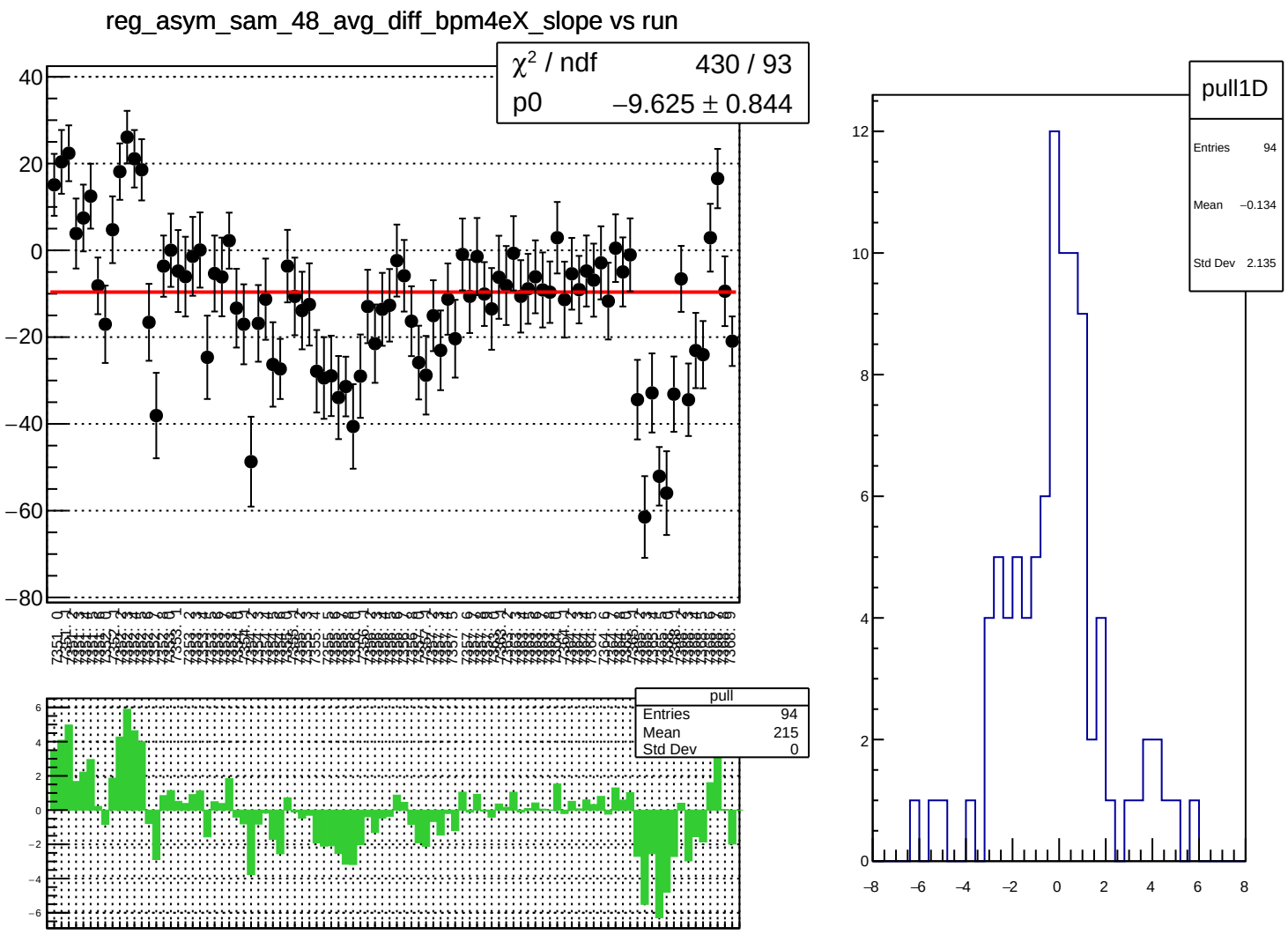

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 10.92 / 93
p0 −88.22 ± 1.041
pull
Entries 94
Mean 38.55
Std Dev 0
pull1D
Entries 94
Mean −0.01827
Std Dev 0.3404

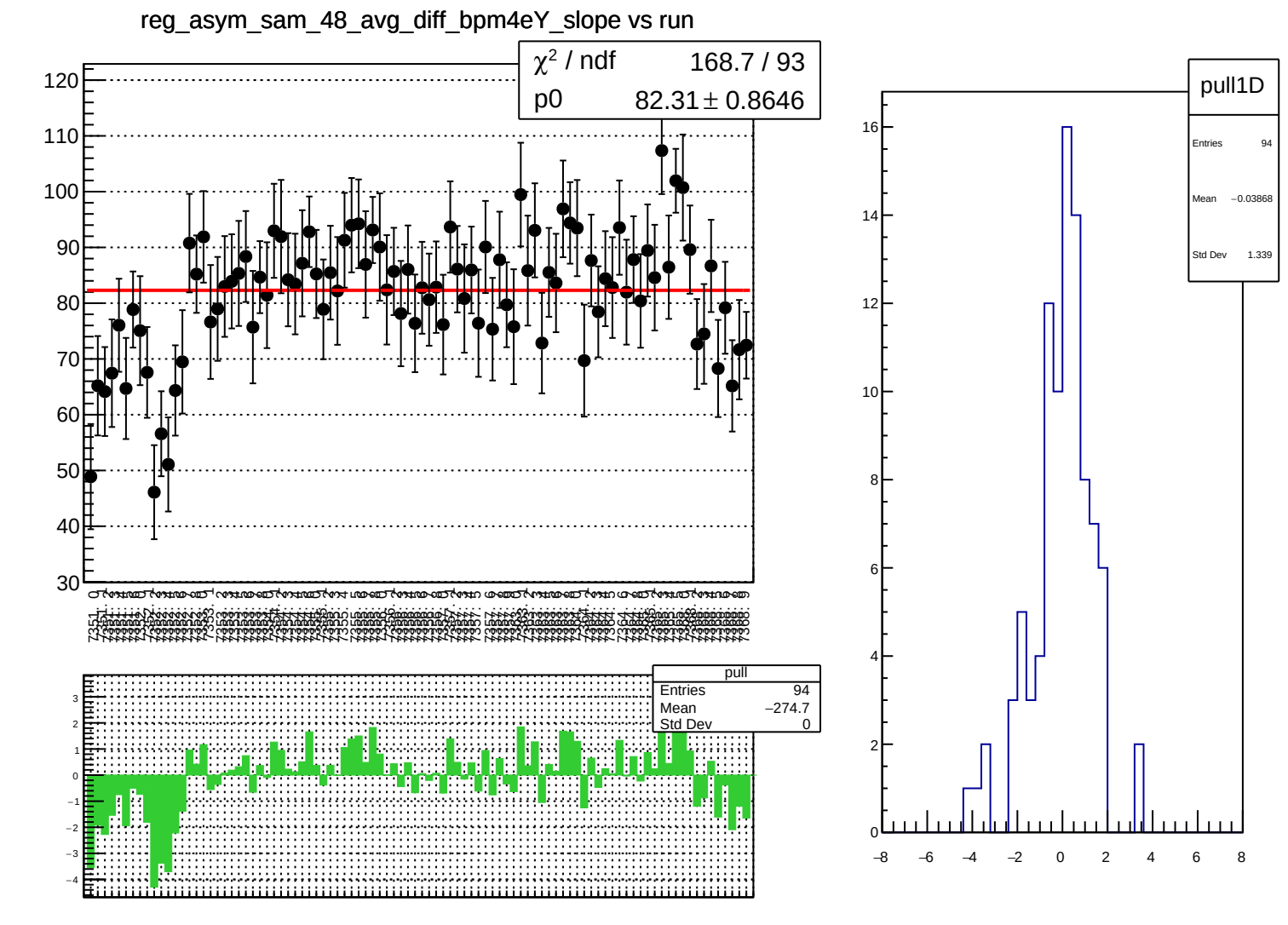

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 13.13 / 93
p0 −116.6 ± 1.065
pull
Entries 94
Mean 1192
Std Dev 0
pull1D
Entries 94
Mean 0.00229
Std Dev 0.3737

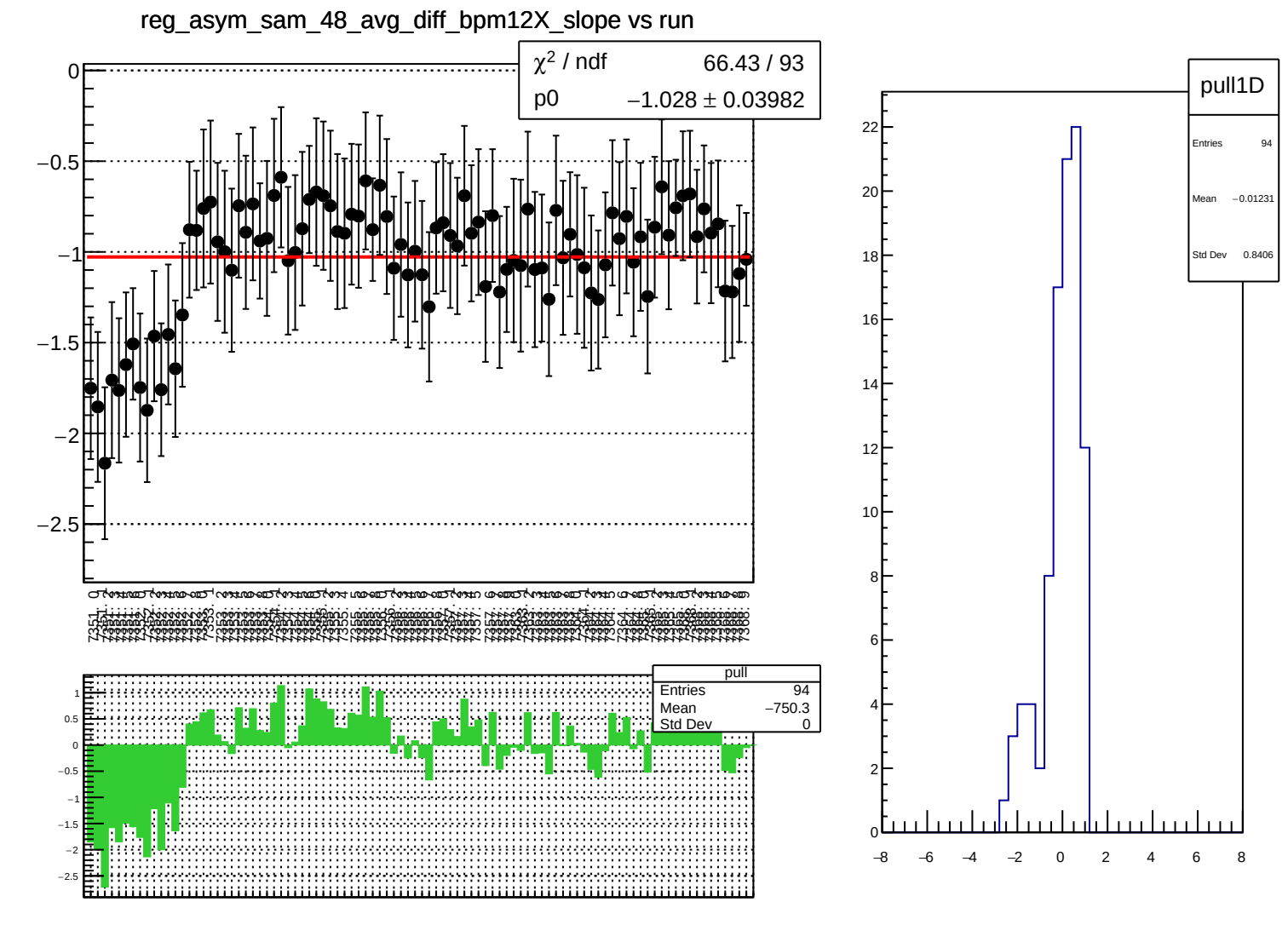

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 17.4 / 93
p0 1.296 ± 0.04922
pull
Entries 94
Mean 497.6
Std Dev 0
pull1D
Entries 94
Mean −0.006436
Std Dev 0.4302

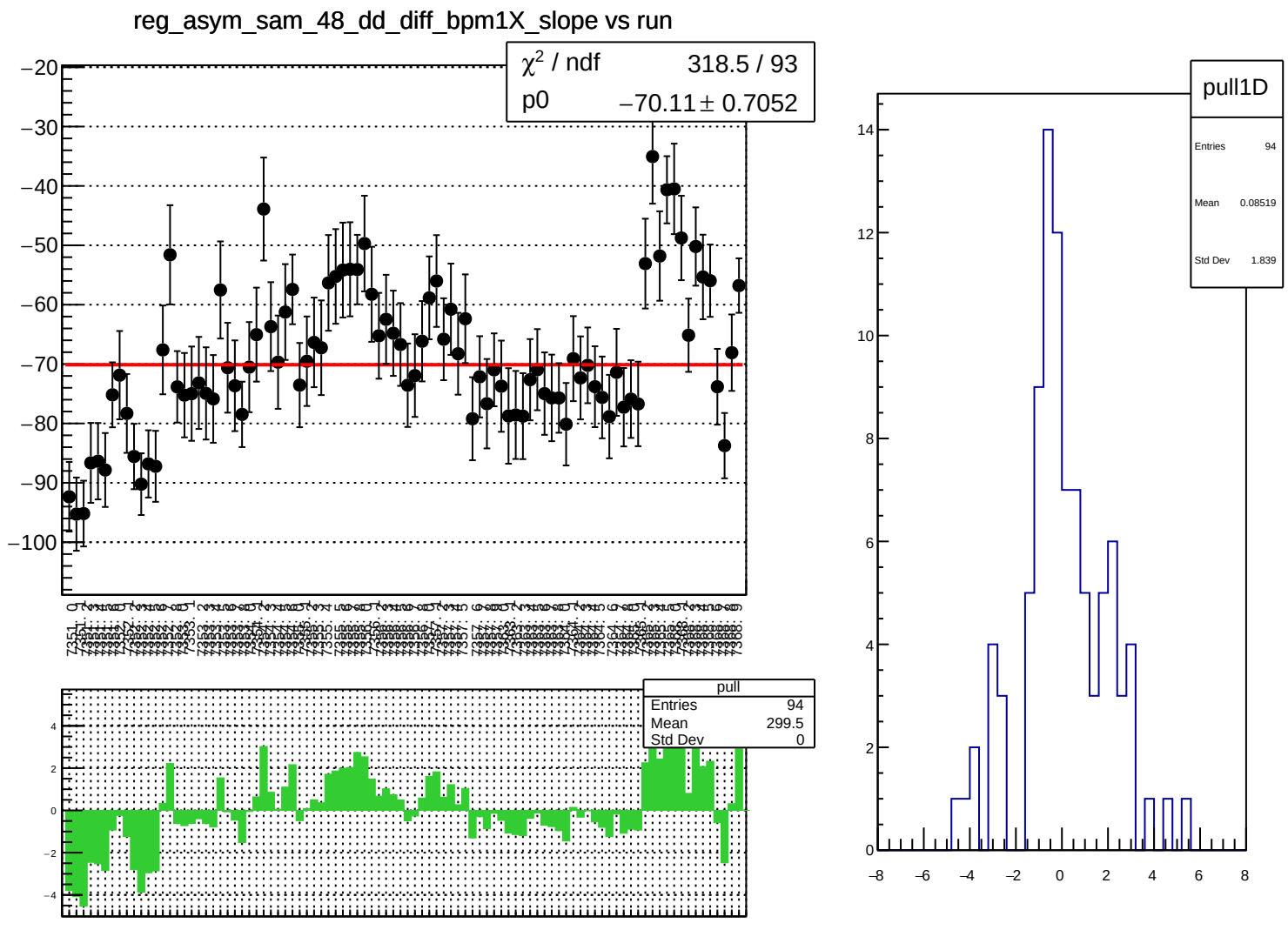

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 607.3 / 93
p0 −91.7 ± 0.8491
−20
−40
−60
−80
−100
−120
−140
pull
Entries 94
Mean 282.8
Std Dev 0
6
4
2
0
−2
−4
−6
pull1D
Entries 94
Mean 0.1237
Std Dev 2.539
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

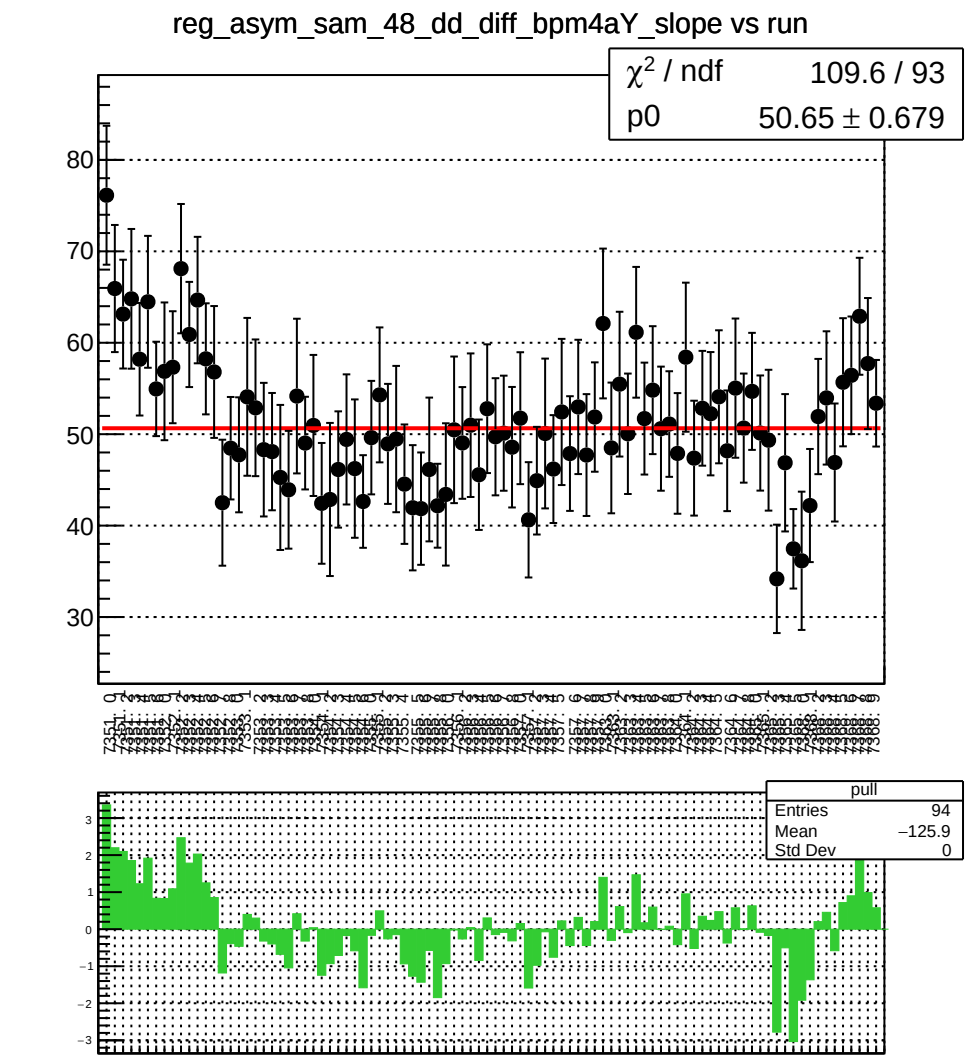

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 232.4 / 93
p0 28.22 ± 0.8167
pull
Entries 94
Mean −71.81
Std Dev 0
pull1D
Entries 94
Mean 0.0915
Std Dev 1.57

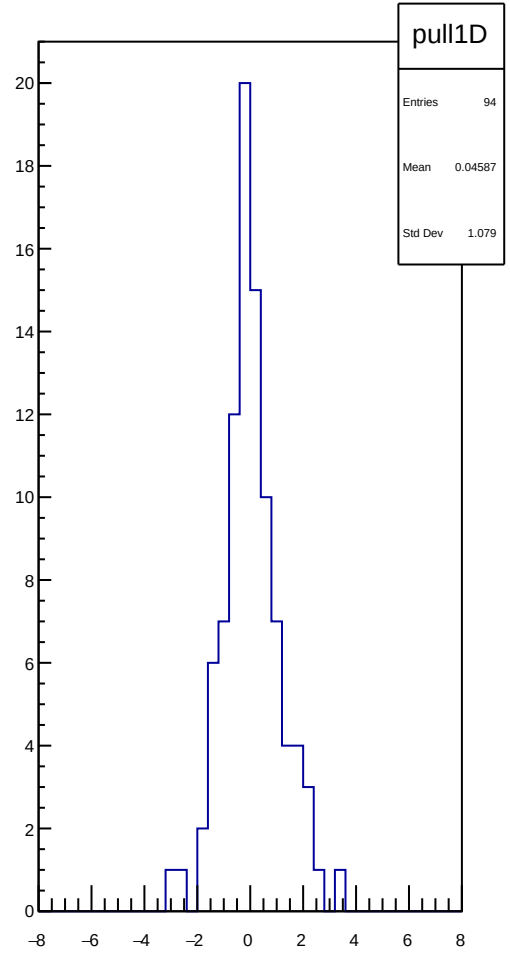

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 430 / 93
p0 −9.625 ± 0.844
pull
Entries 94
Mean 215
Std Dev 0
pull1D
Entries 94
Mean −0.134
Std Dev 2.135

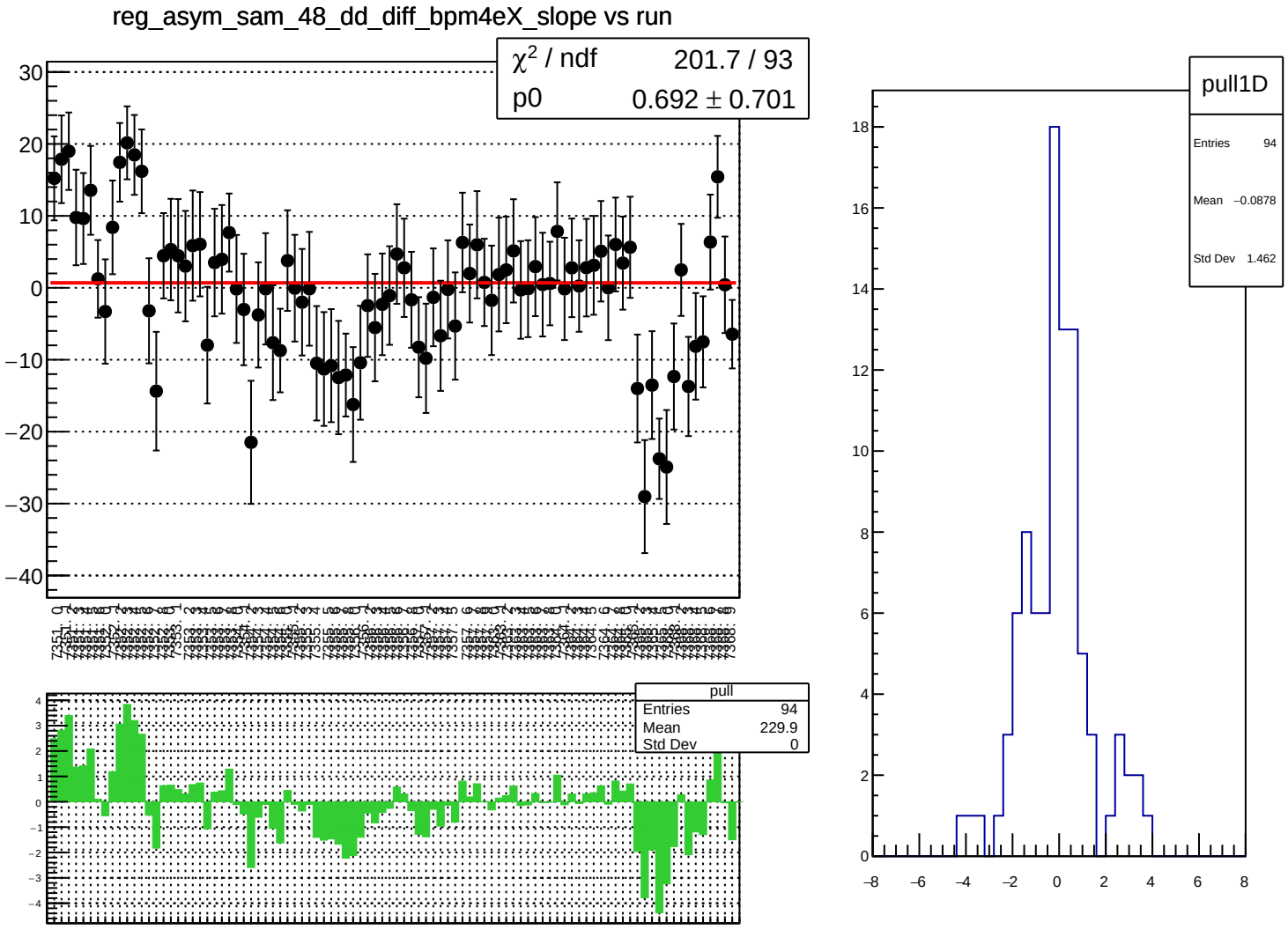

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 168.7 / 93
p0 82.31 ± 0.8646
pull
Entries 94
Mean −274.7
Std Dev 0
pull1D
Entries 94
Mean −0.03868
Std Dev 1.339

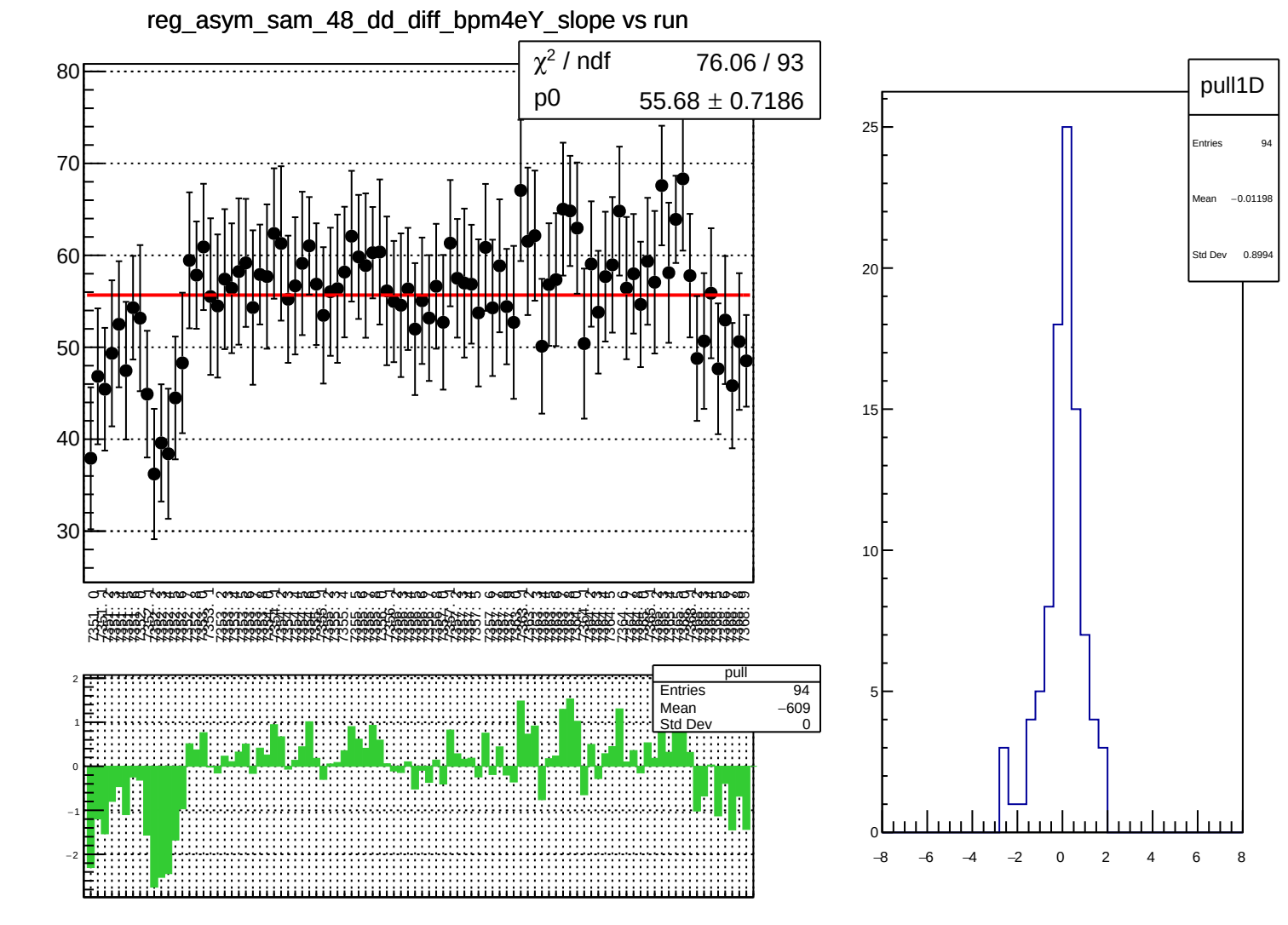

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 66.43 / 93
p0 −1.028 ± 0.03982
pull
Entries 94
Mean −750.3
Std Dev 0
pull1D
Entries 94
Mean −0.01231
Std Dev 0.8406

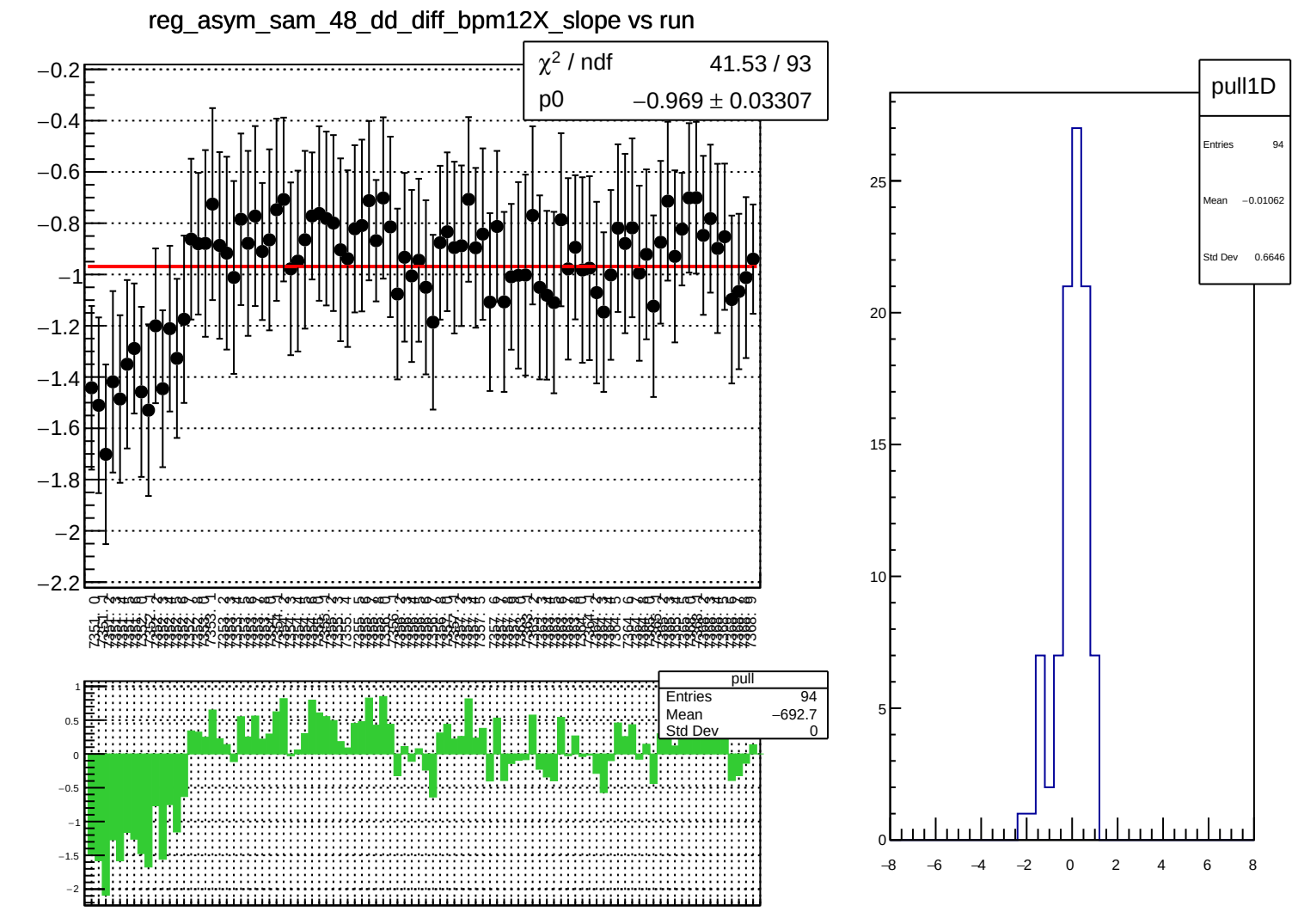

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 318.5 / 93
p0 −70.11 ± 0.7052
pull
Entries 94
Mean 299.5
Std Dev 0
pull1D
Entries 94
Mean 0.08519
Std Dev 1.839

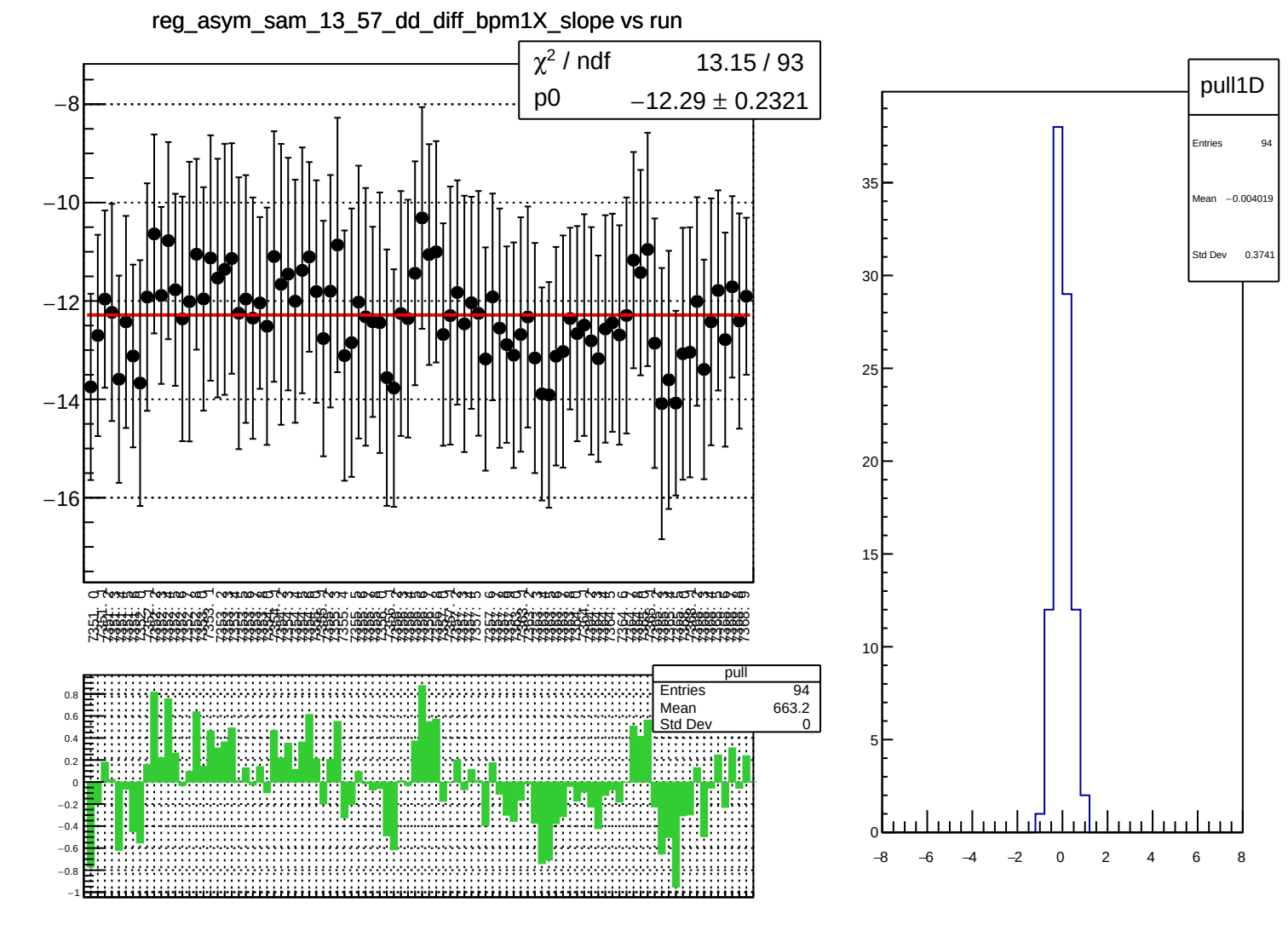

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 109.6 / 93
p0 50.65 ± 0.679
pull
Entries 94
Mean −125.9
Std Dev 0

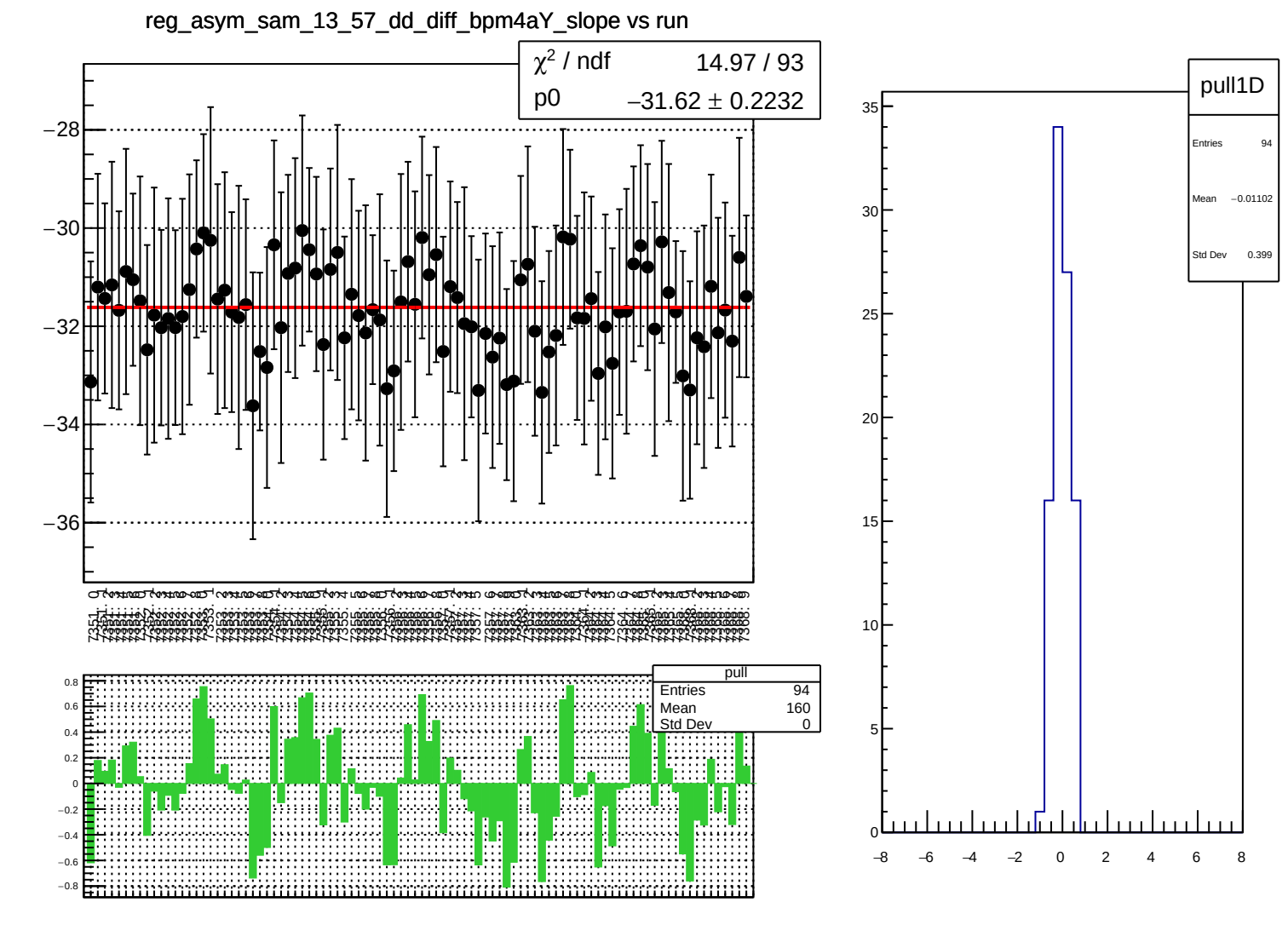

pull1D
Entries 94
Mean 0.04587
Std Dev 1.079

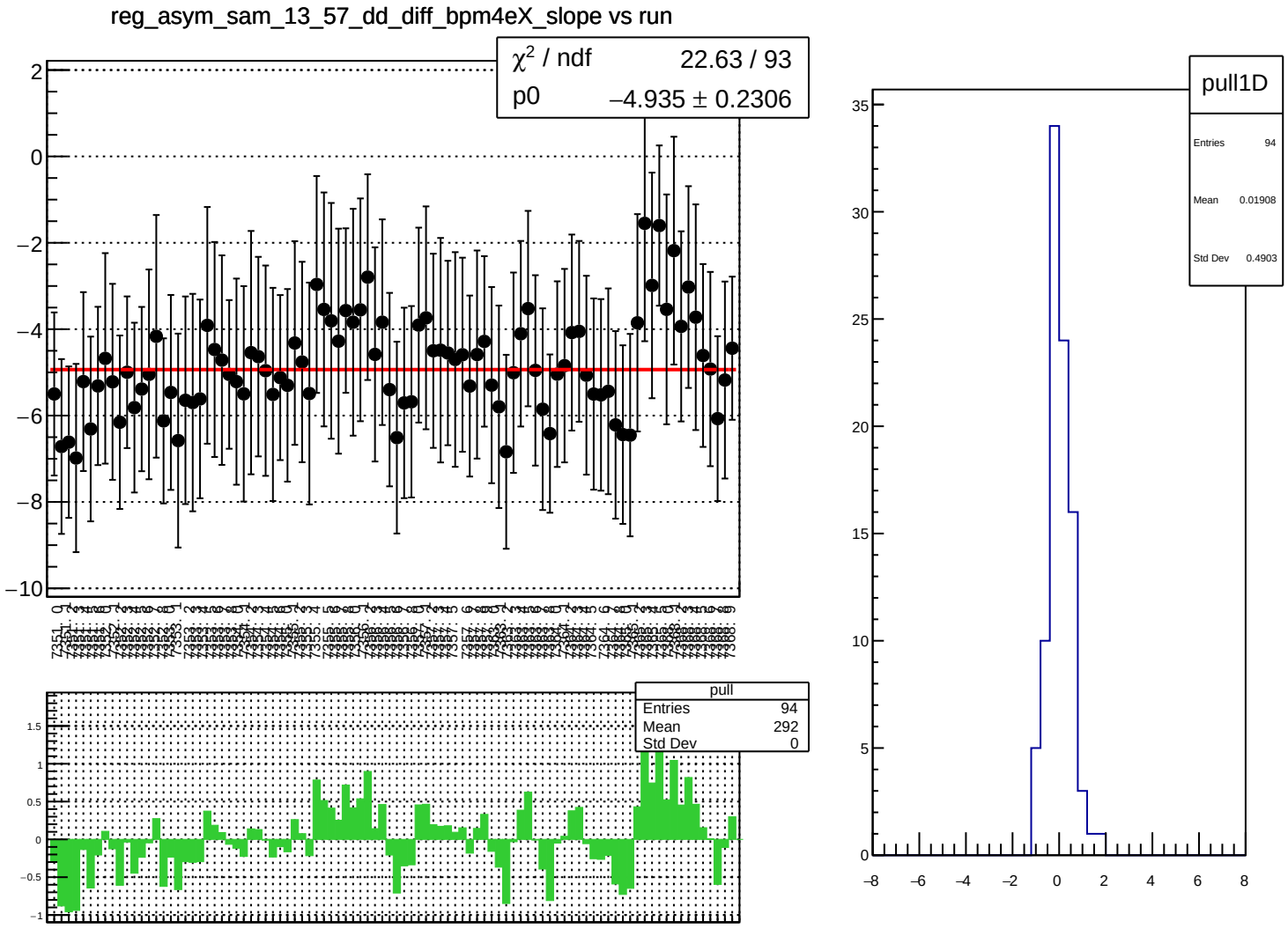

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 201.7 / 93
p0 0.692 ± 0.701
pull
Entries 94
Mean 229.9
Std Dev 0
pull1D
Entries 94
Mean −0.0878
Std Dev 1.462

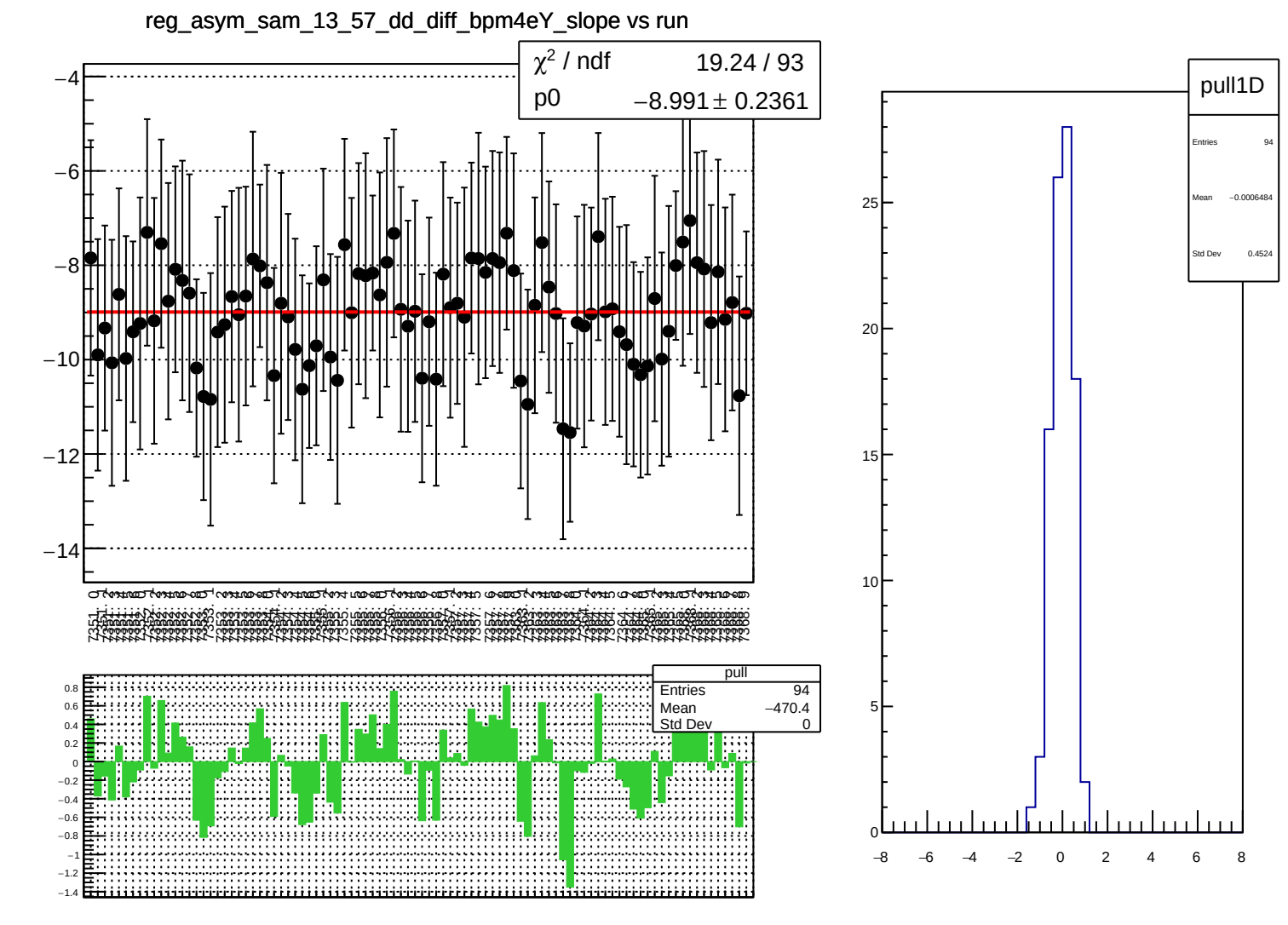

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 76.06 / 93
p0 55.68 ± 0.7186
pull
Entries 94
Mean −609
Std Dev 0
pull1D
Entries 94
Mean −0.01198
Std Dev 0.8994

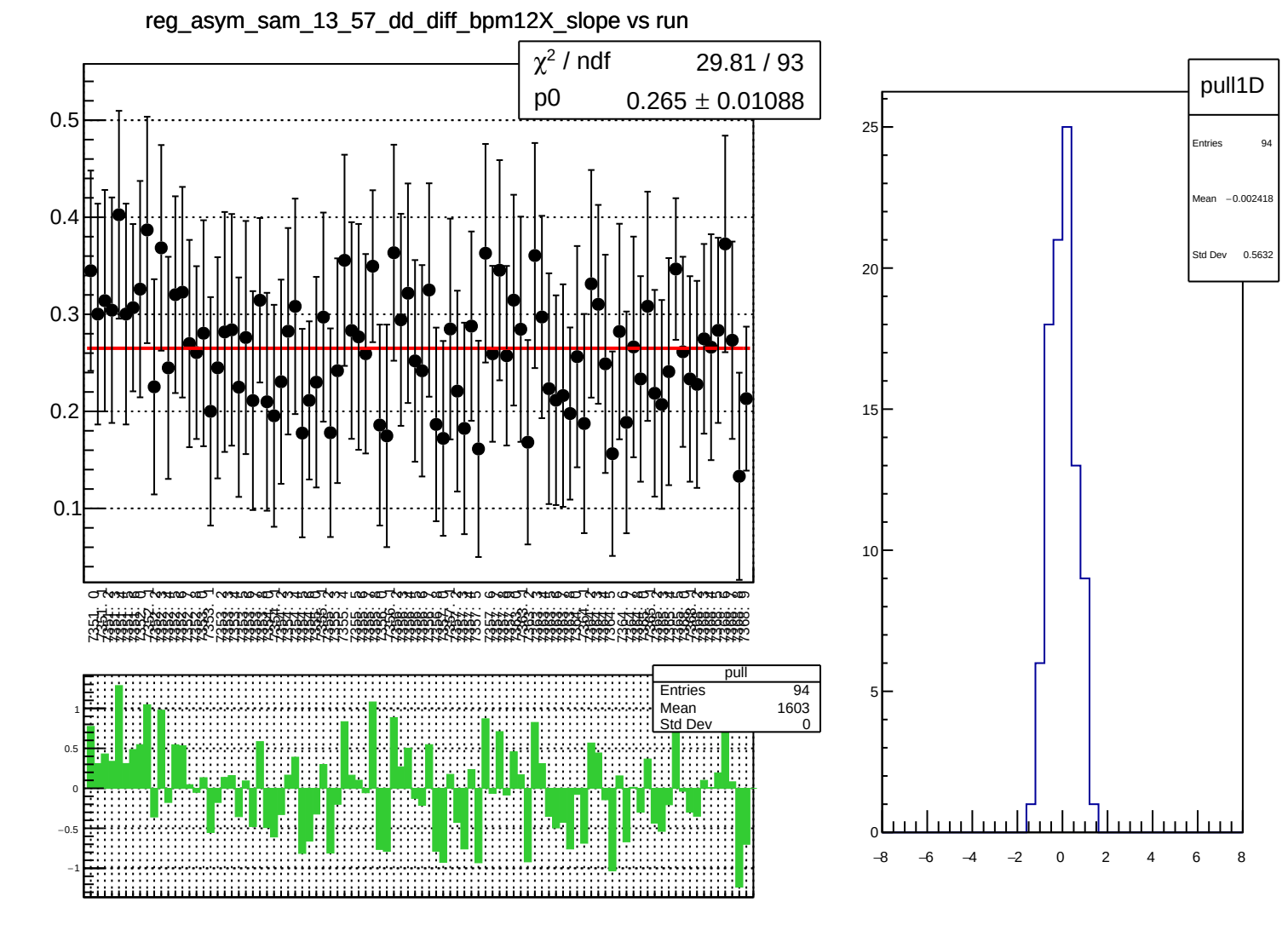

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 41.53 / 93
p0 −0.969 ± 0.03307
pull
Entries 94
Mean −692.7
Std Dev 0
pull1D
Entries 94
Mean −0.01062
Std Dev 0.6646

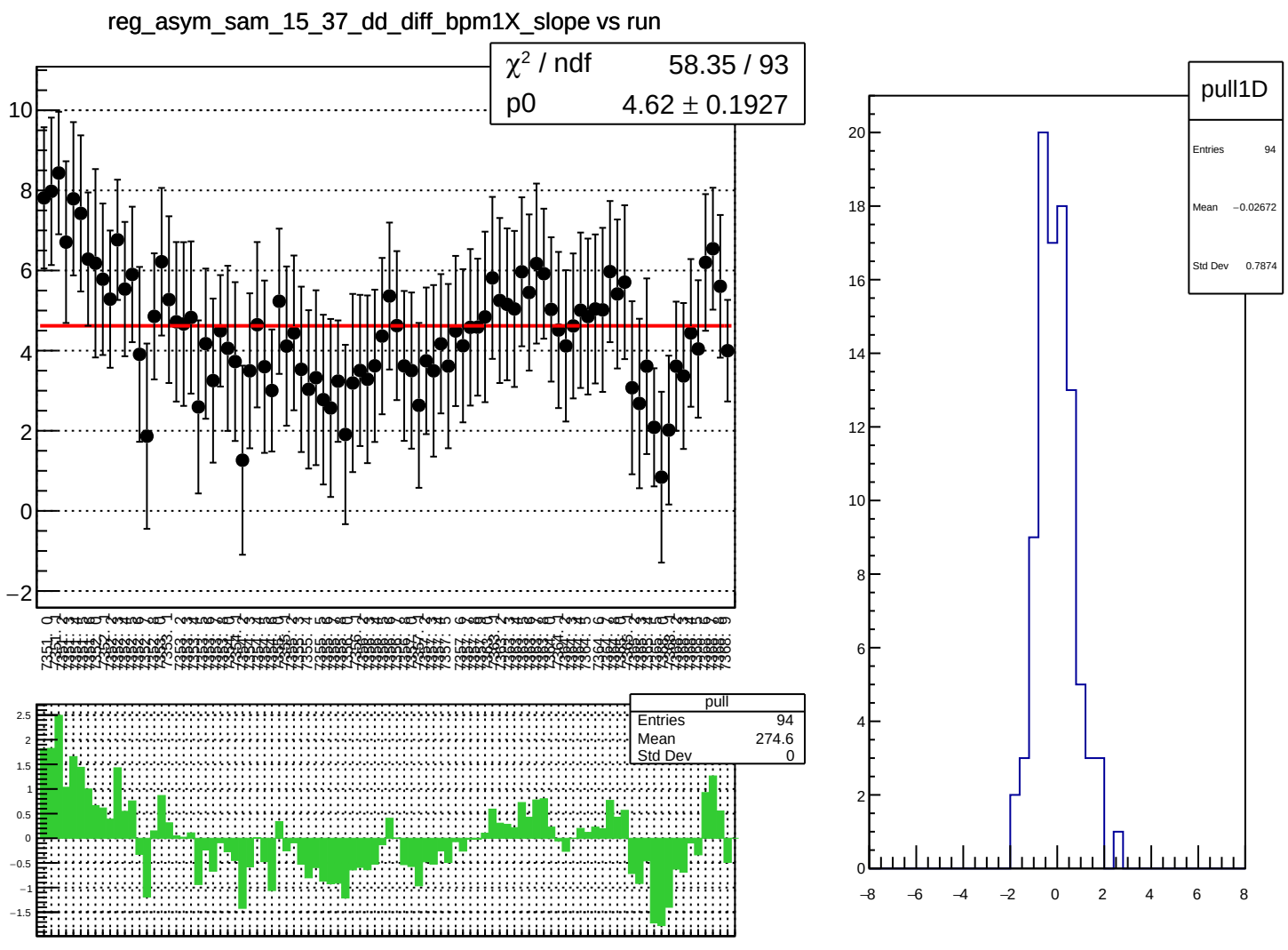

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 13.15 / 93
p0 −12.29 ± 0.2321
pull
Entries 94
Mean 663.2
Std Dev 0
pull1D
Entries 94
Mean −0.004019
Std Dev 0.3741

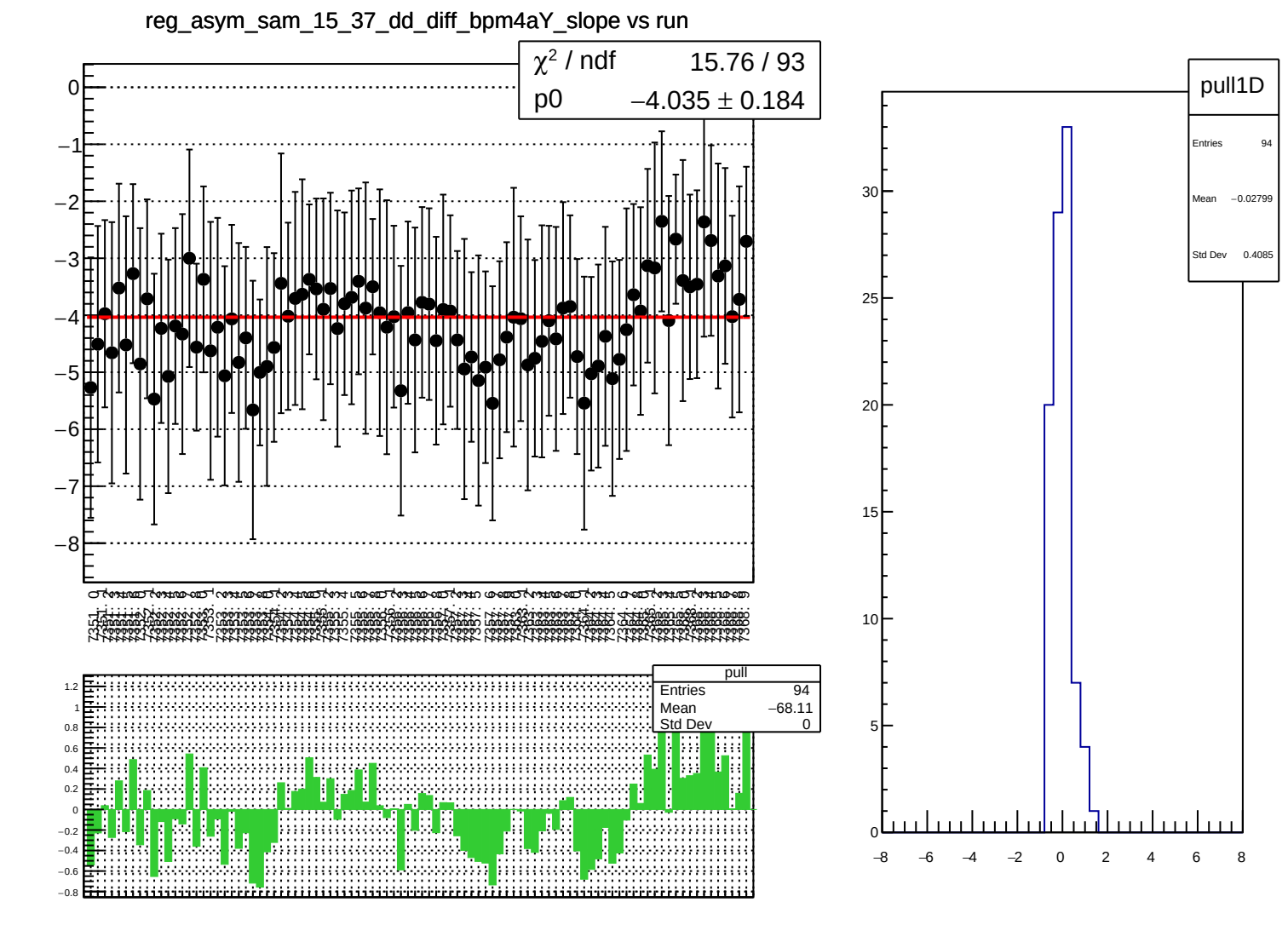

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.97 / 93
p0 −31.62 ± 0.2232
−28
−30
−32
−34
−36
pull
Entries 94
Mean 160
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 94
Mean −0.01102
Std Dev 0.399
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

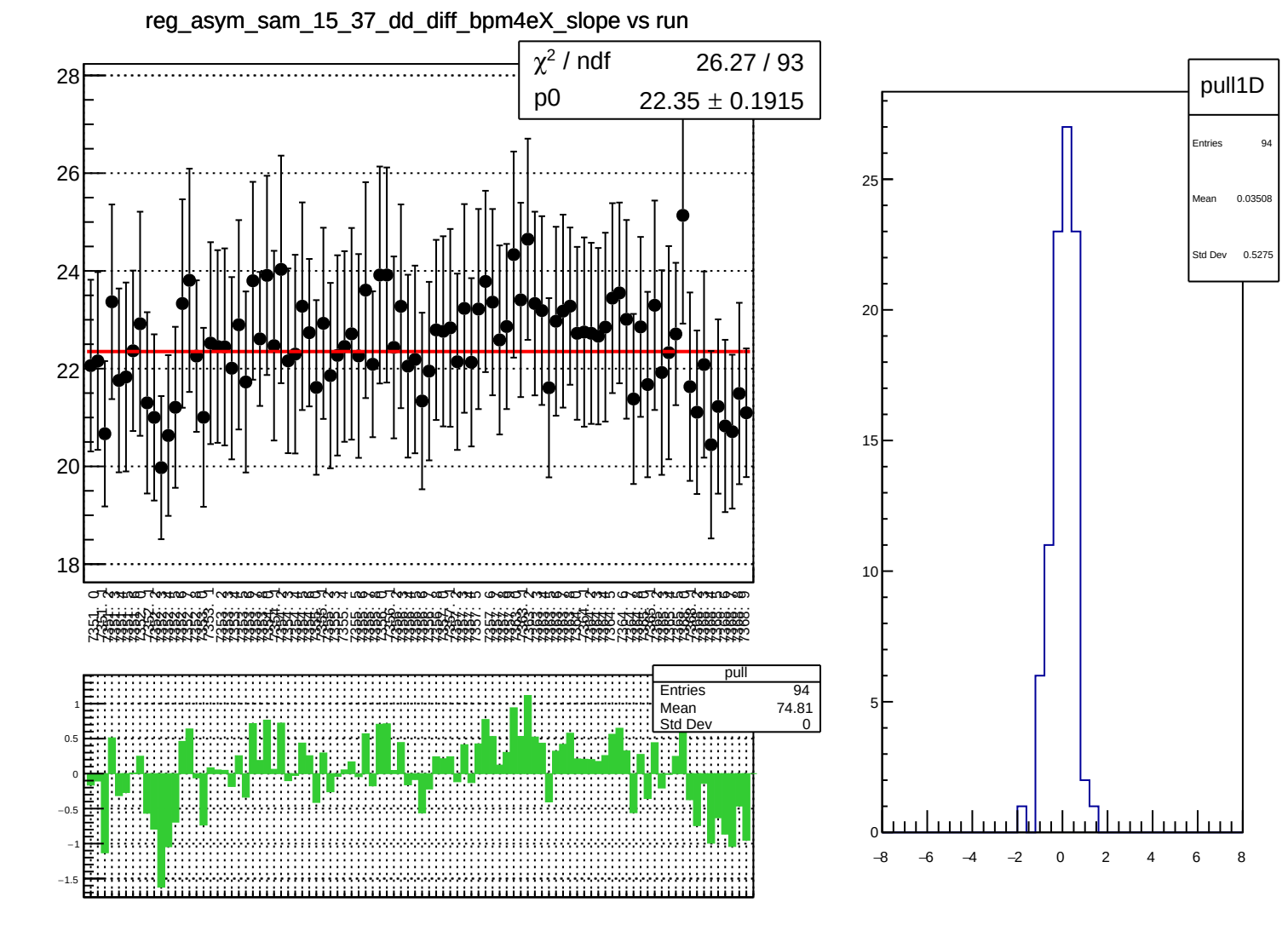

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 22.63 / 93
p0 −4.935 ± 0.2306
pull
Entries 94
Mean 292
Std Dev 0
pull1D
Entries 94
Mean 0.01908
Std Dev 0.4903

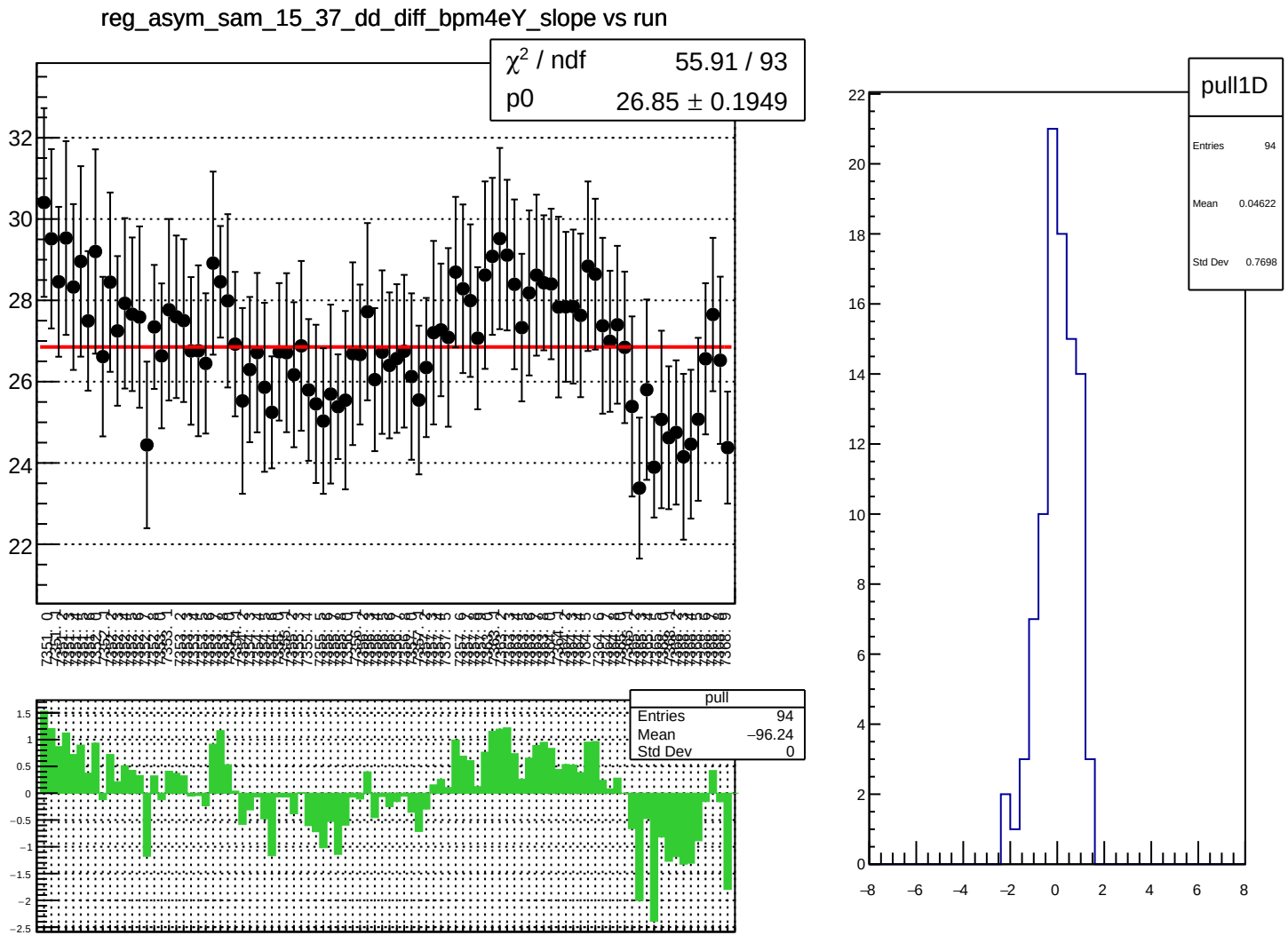

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 19.24 / 93
p0 −8.991 ± 0.2361
pull
Entries 94
Mean −470.4
Std Dev 0
pull1D
Entries 94
Mean −0.0006484
Std Dev 0.4524

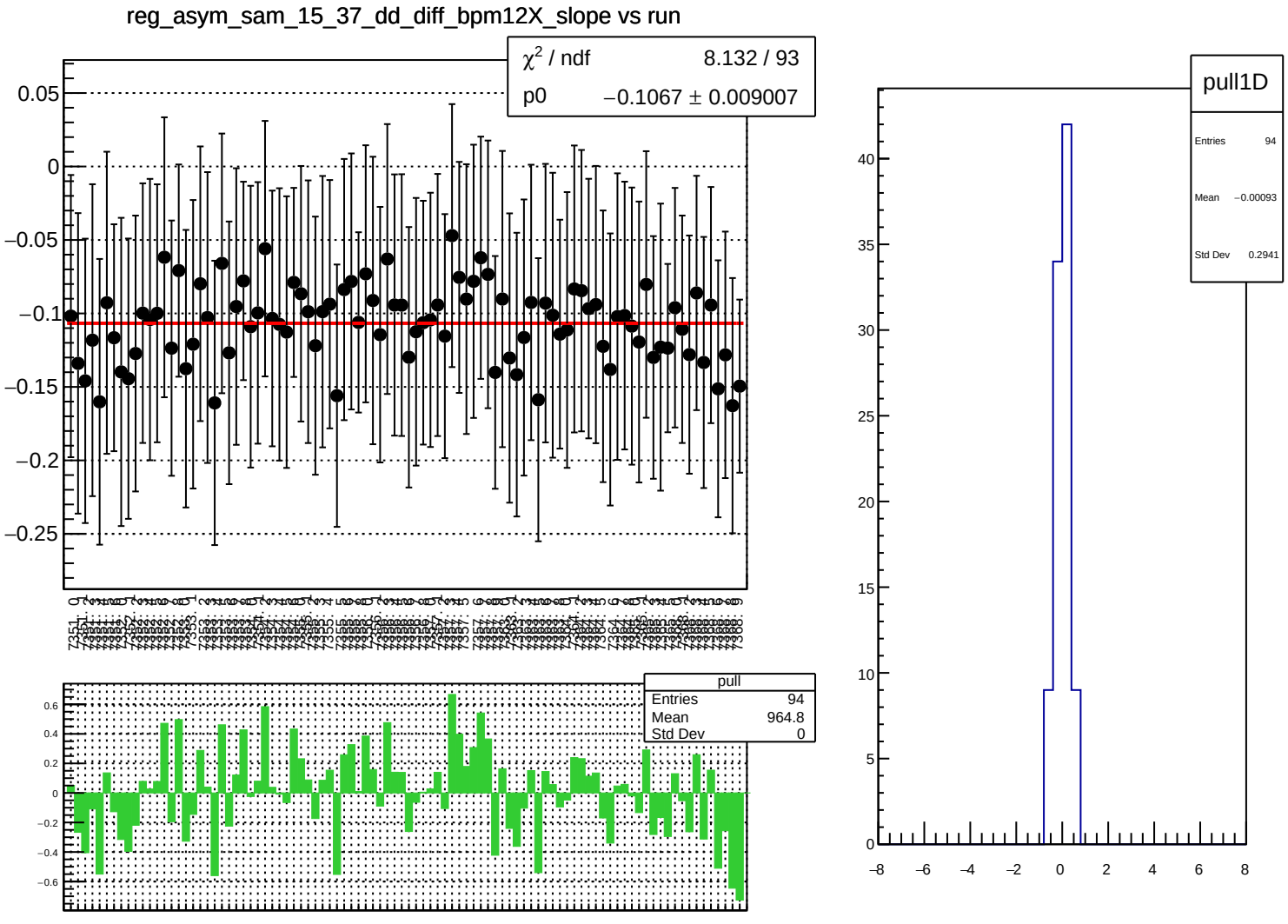

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 29.81 / 93
p0 0.265 ± 0.01088
0.5
0.4
0.3
0.2
0.1
pull
Entries 94
Mean 1603
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 94
Mean −0.002418
Std Dev 0.5632
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

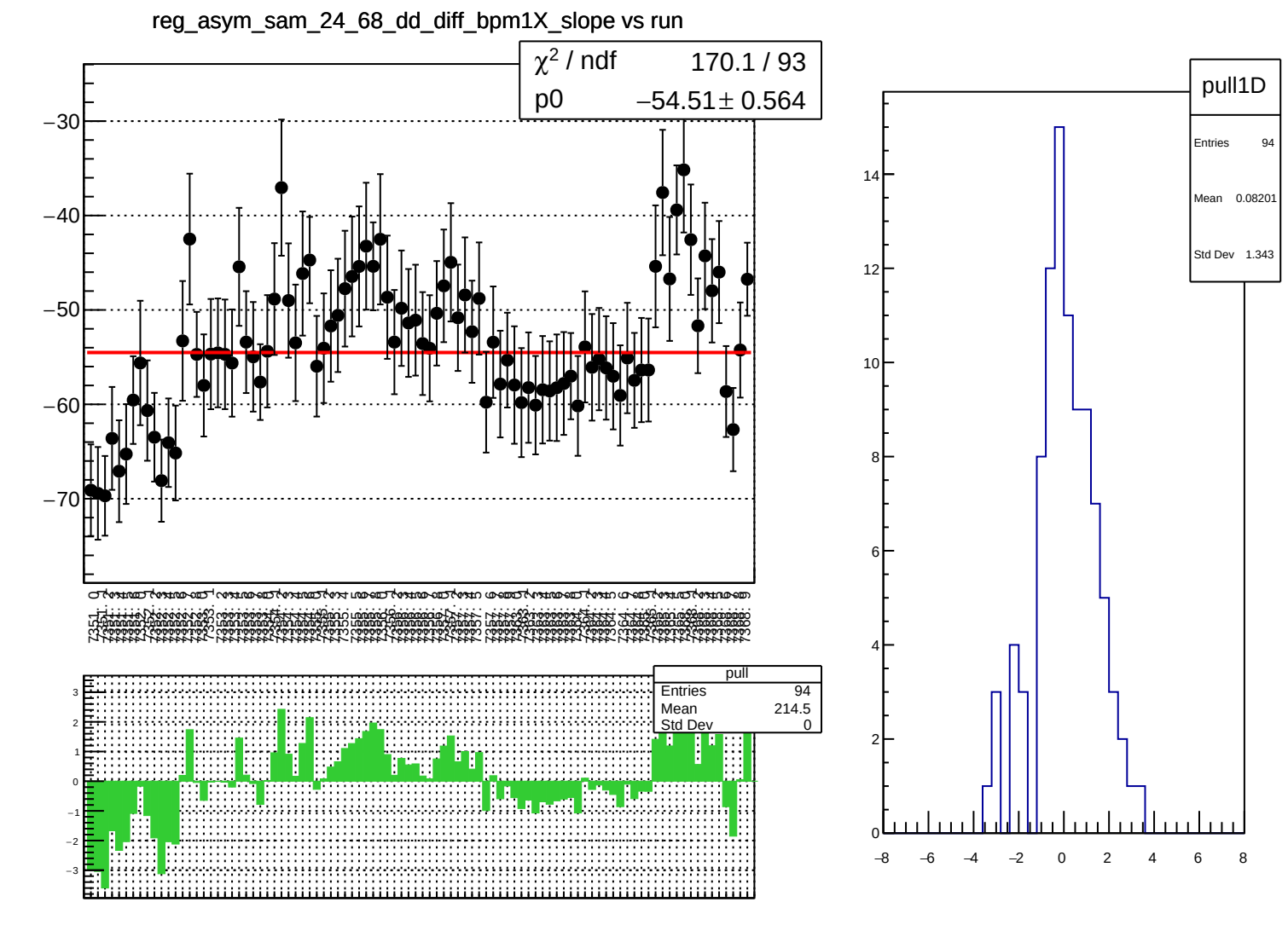

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 58.35 / 93
p0 4.62 ± 0.1927
pull
Entries 94
Mean 274.6
Std Dev 0
pull1D
Entries 94
Mean −0.02672
Std Dev 0.7874

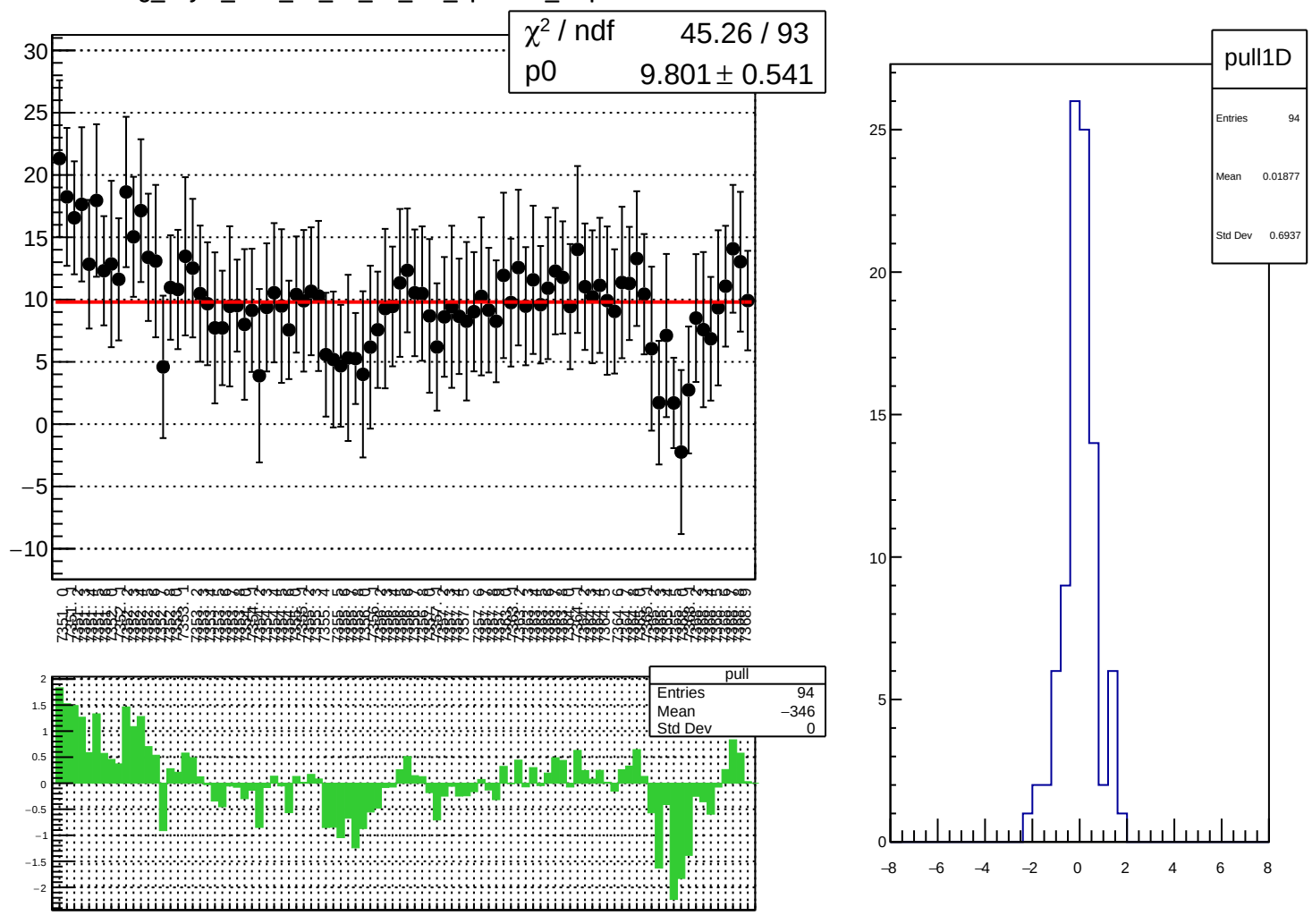

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 15.76 / 93
p0 −4.035 ± 0.184
pull
Entries 94
Mean −68.11
Std Dev 0
pull1D
Entries 94
Mean −0.02799
Std Dev 0.4085

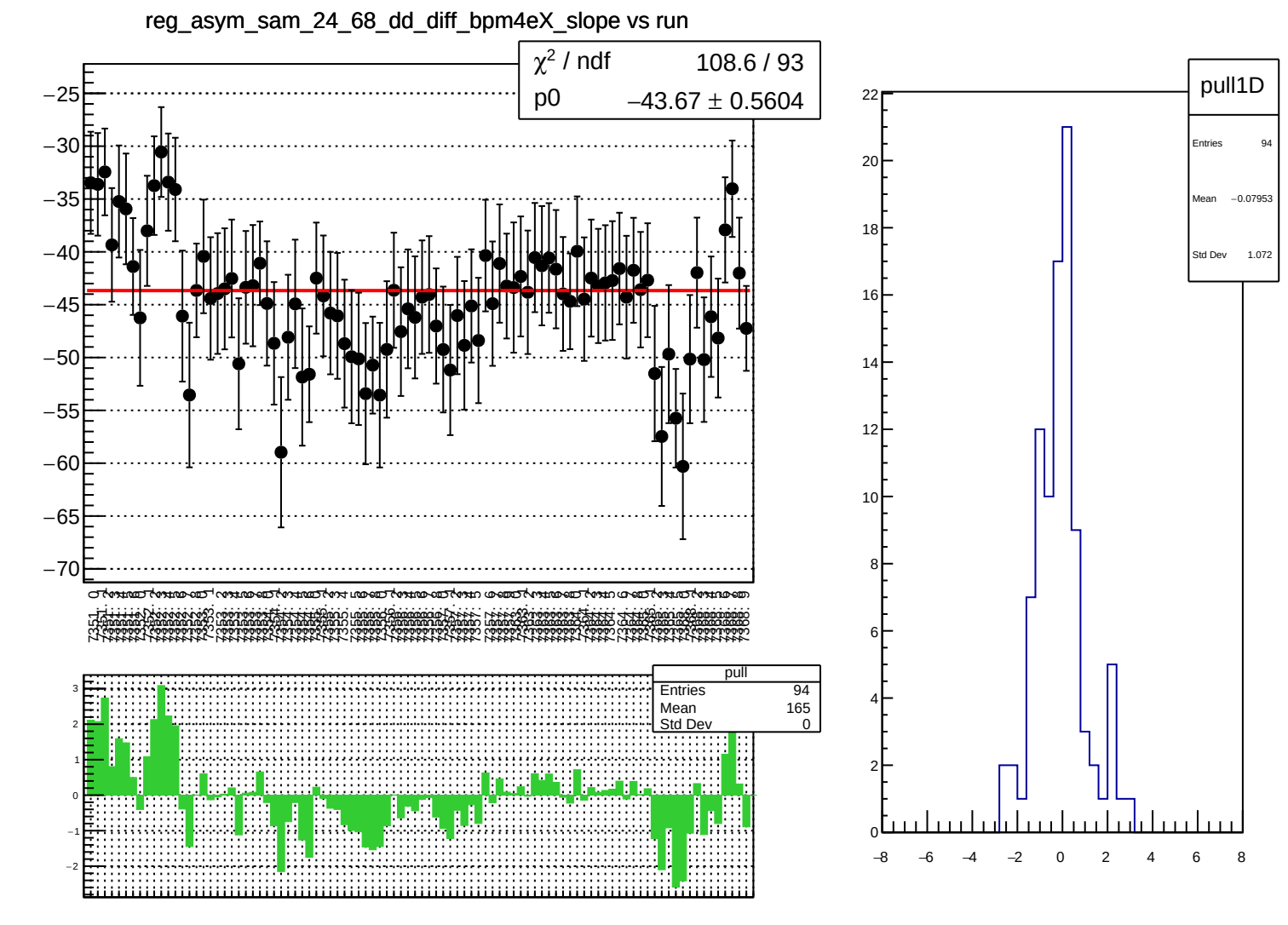

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 26.27 / 93
p0 22.35 ± 0.1915
pull
Entries 94
Mean 74.81
Std Dev 0
pull1D
Entries 94
Mean 0.03508
Std Dev 0.5275

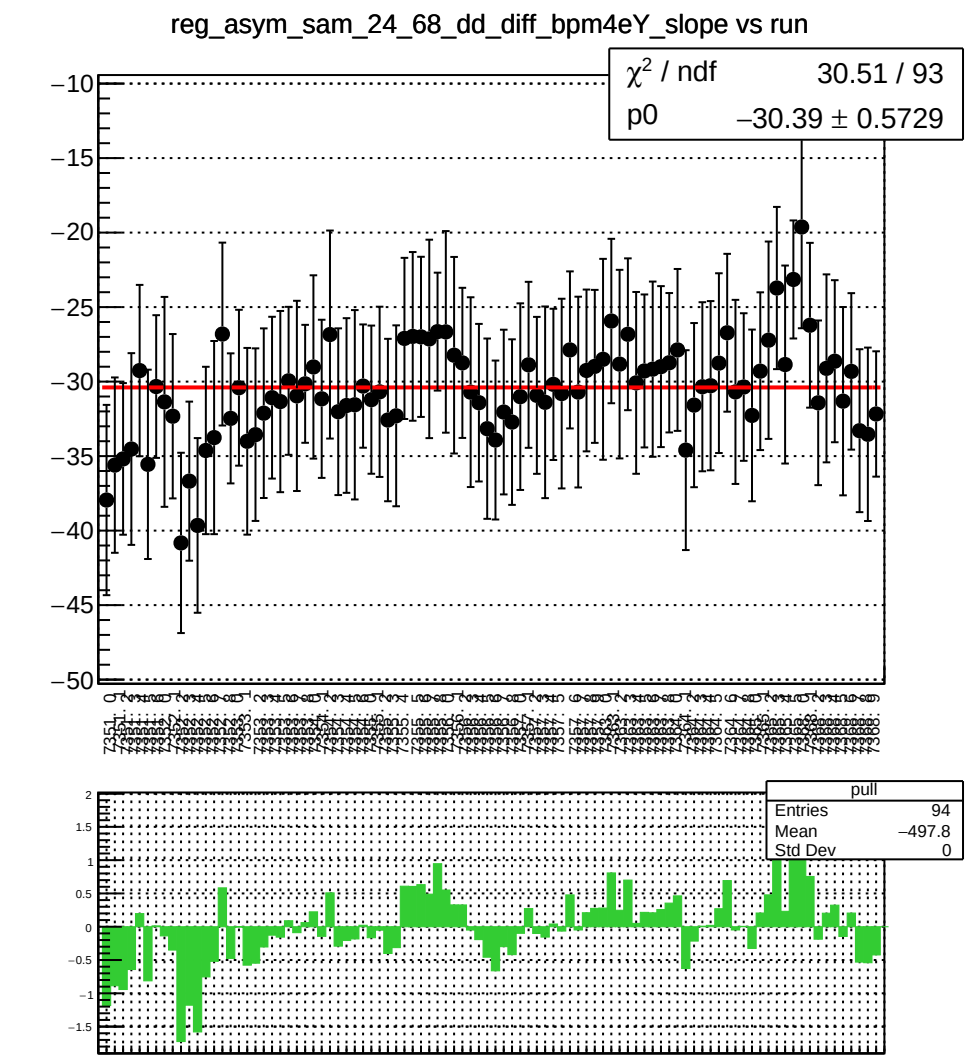

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 55.91 / 93
p0 26.85 ± 0.1949
pull
Entries 94
Mean −96.24
Std Dev 0
pull1D
Entries 94
Mean 0.04622
Std Dev 0.7698

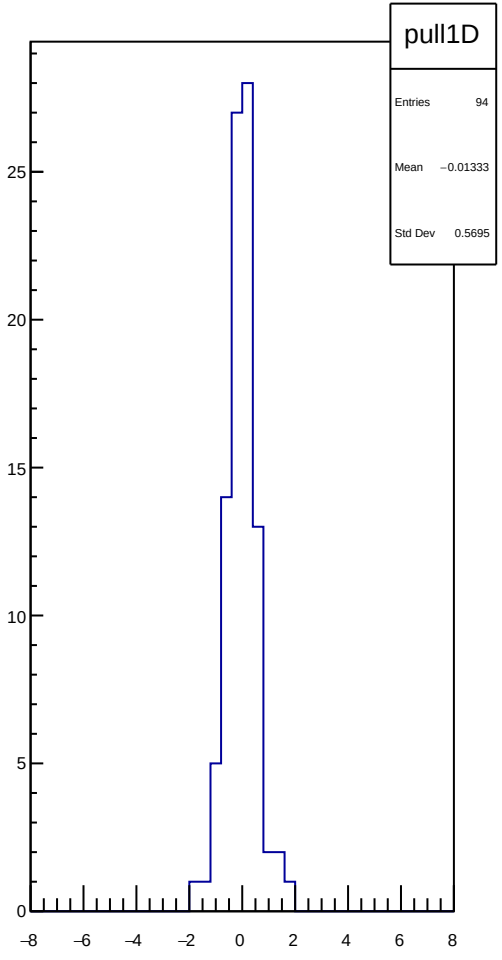

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 8.132 / 93
p0 −0.1067 ± 0.009007
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25
pull
Entries 94
Mean 964.8
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 94
Mean −0.00093
Std Dev 0.2941
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

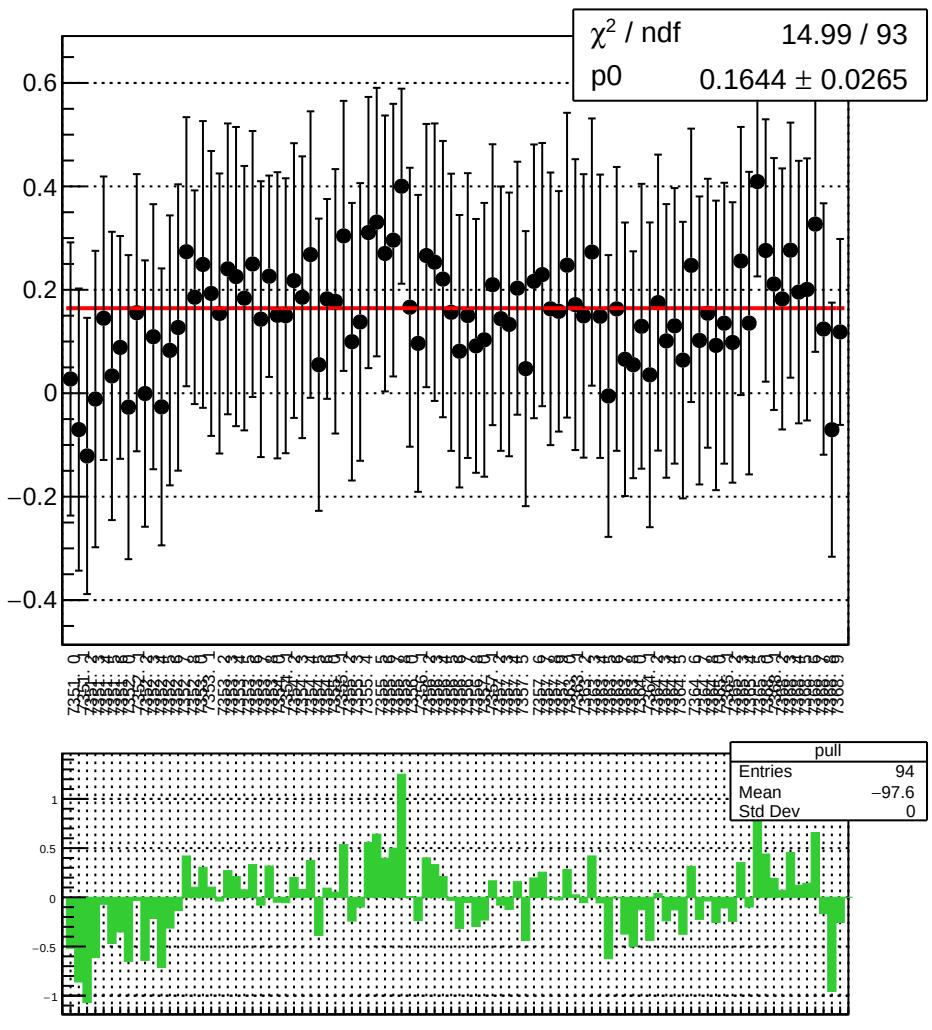

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 170.1 / 93
p0 −54.51 ± 0.564
−30
−40
−50
−60
−70
pull
Entries 94
Mean 214.5
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.08201
Std Dev 1.343
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

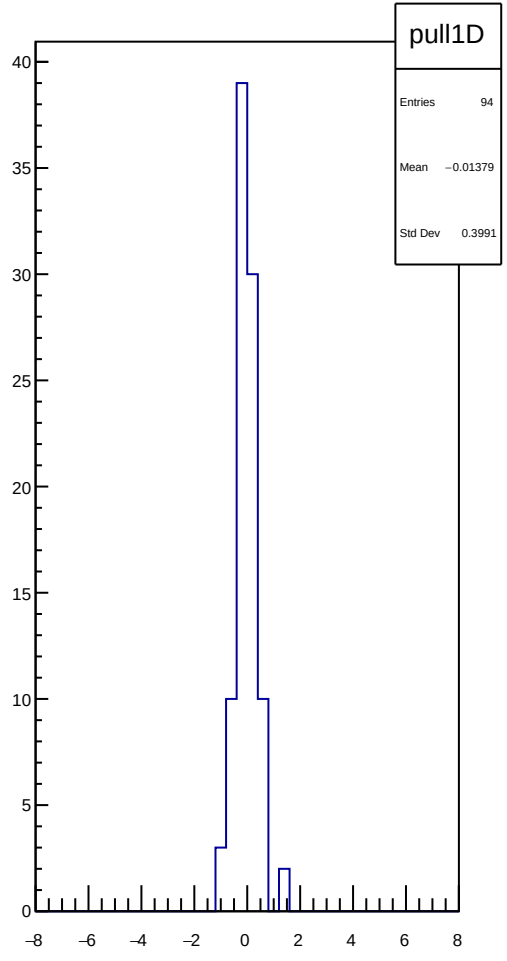

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 45.26 / 93
p0 9.801 ± 0.541
pull
Entries 94
Mean −346
Std Dev 0
pull1D
Entries 94
Mean 0.01877
Std Dev 0.6937

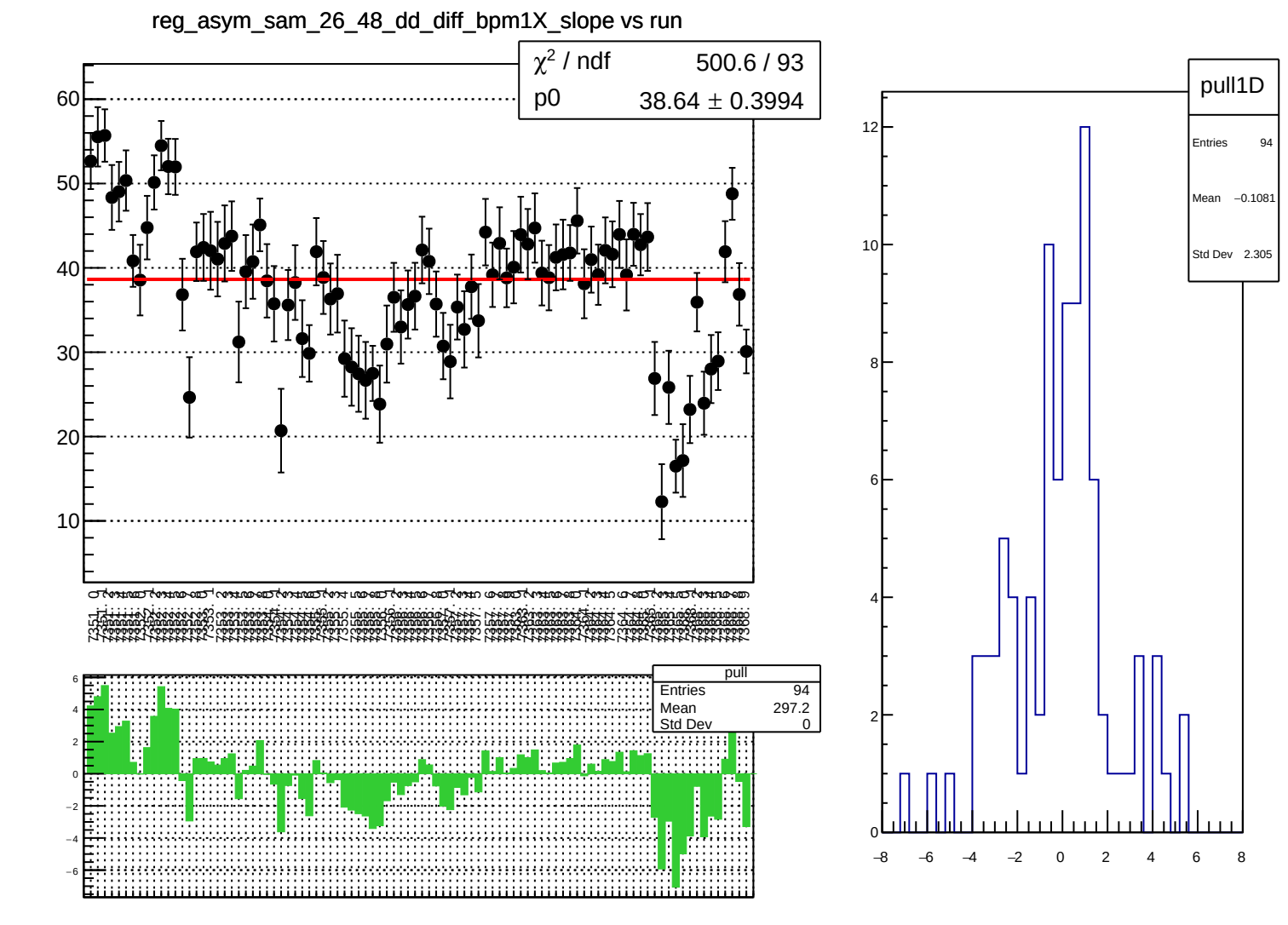

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 108.6 / 93
p0 −43.67 ± 0.5604
pull
Entries 94
Mean 165
Std Dev 0
pull1D
Entries 94
Mean −0.07953
Std Dev 1.072

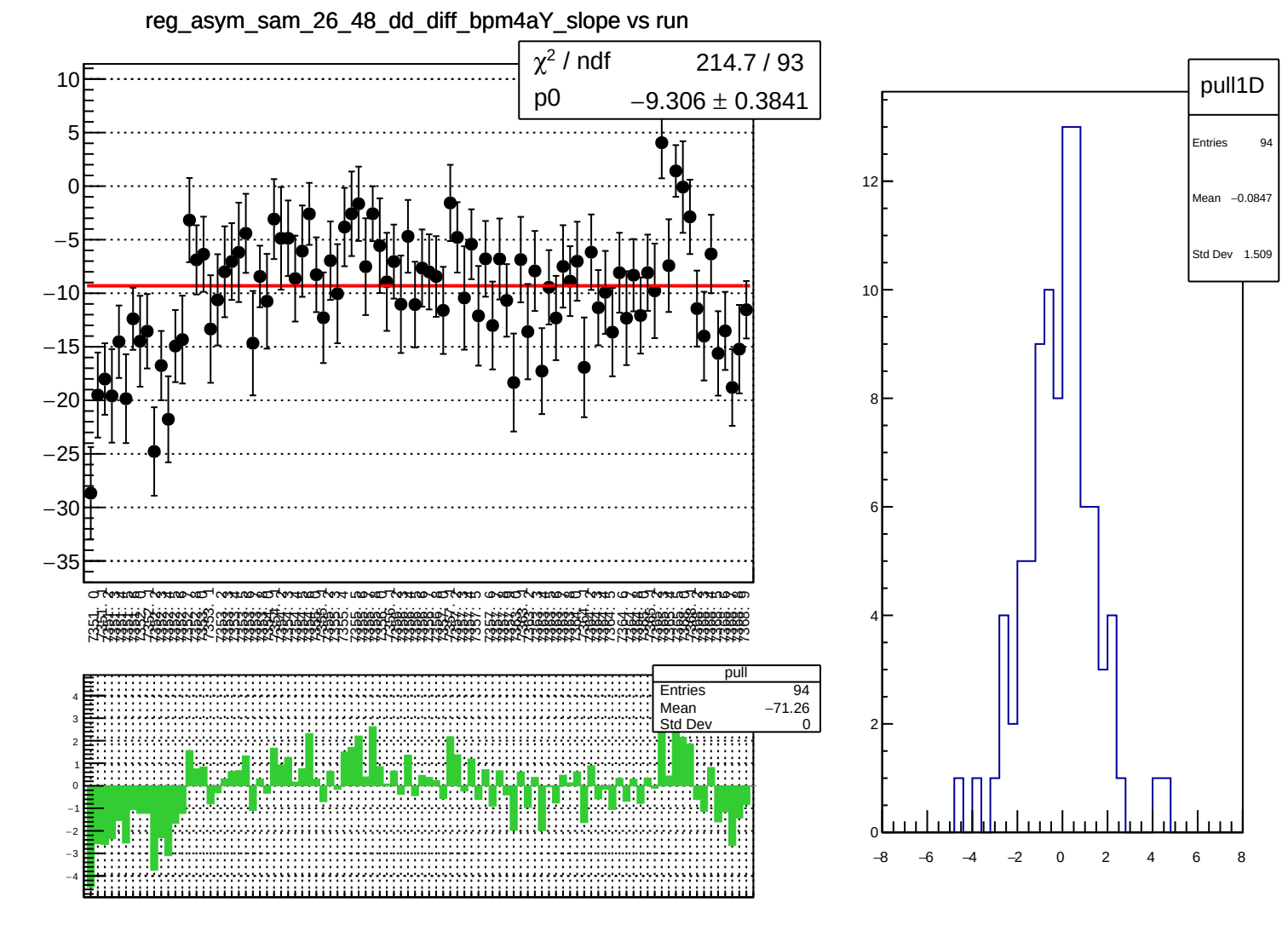

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 30.51 / 93
p0 −30.39 ± 0.5729
pull
Entries 94
Mean −497.8
Std Dev 0

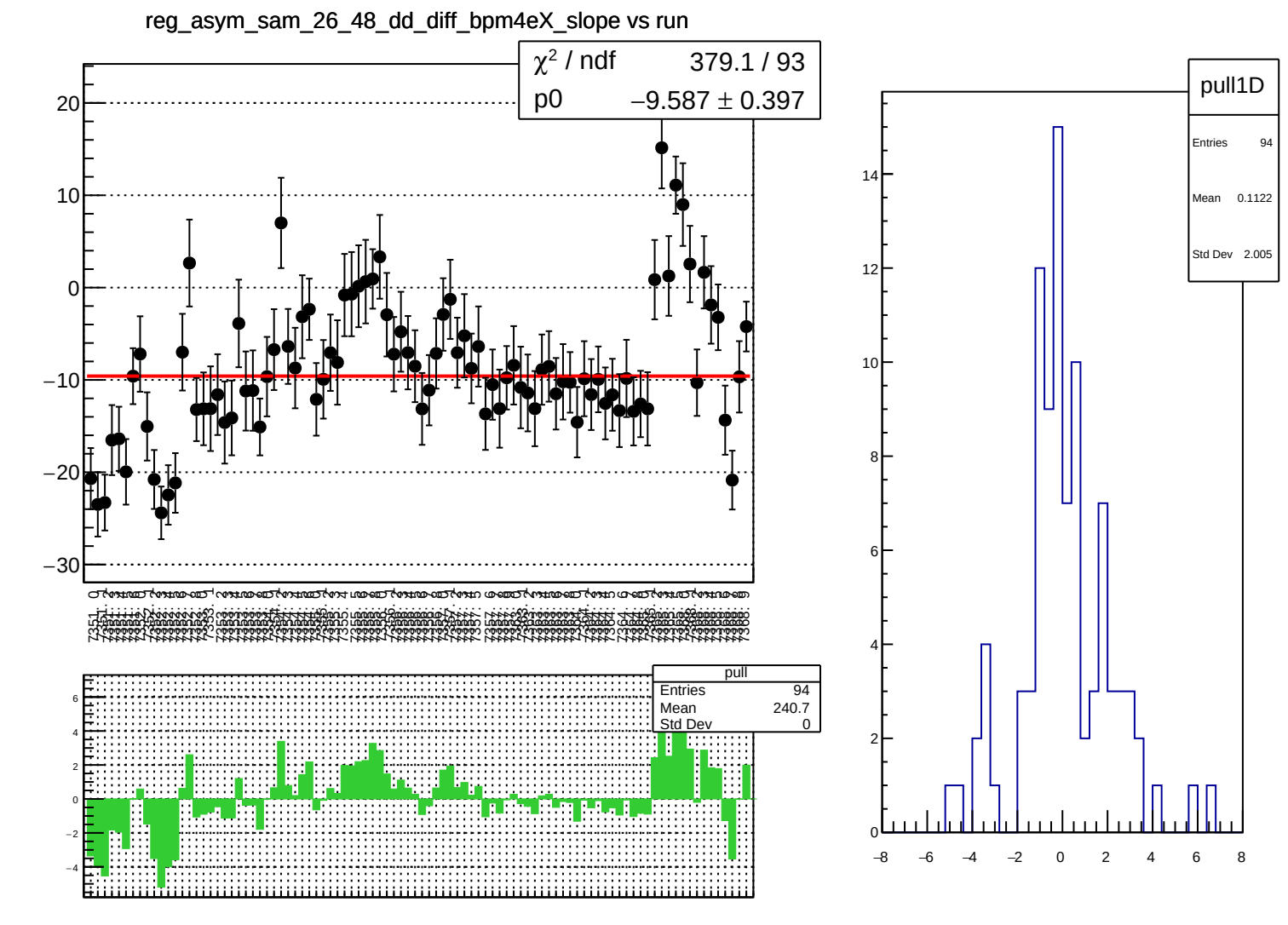

pull1D
Entries 94
Mean −0.01333
Std Dev 0.5695

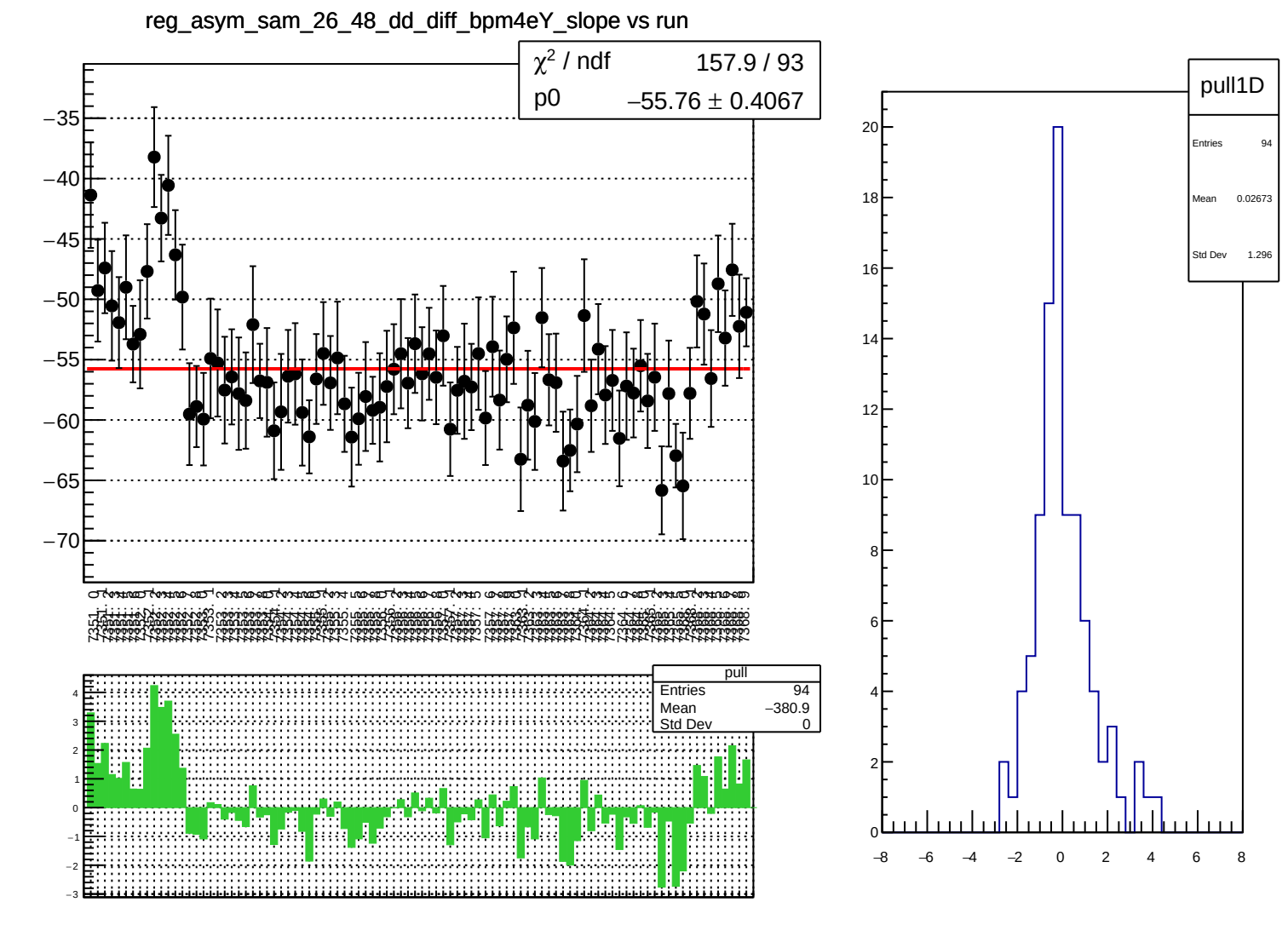

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 14.99 / 93
p0 0.1644 ± 0.0265
pull
Entries 94
Mean −97.6
Std Dev 0

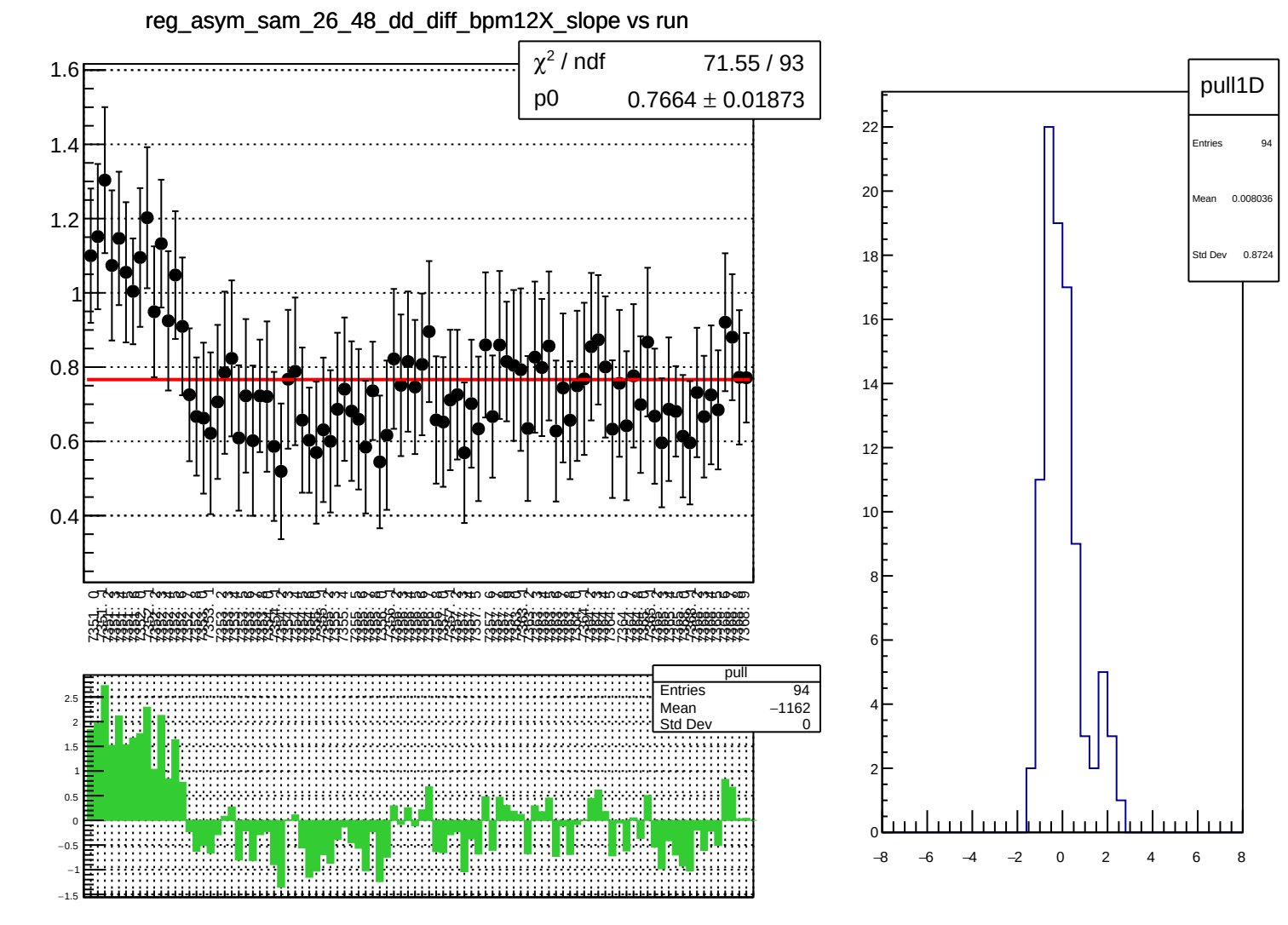

pull1D
Entries 94
Mean −0.01379
Std Dev 0.3991

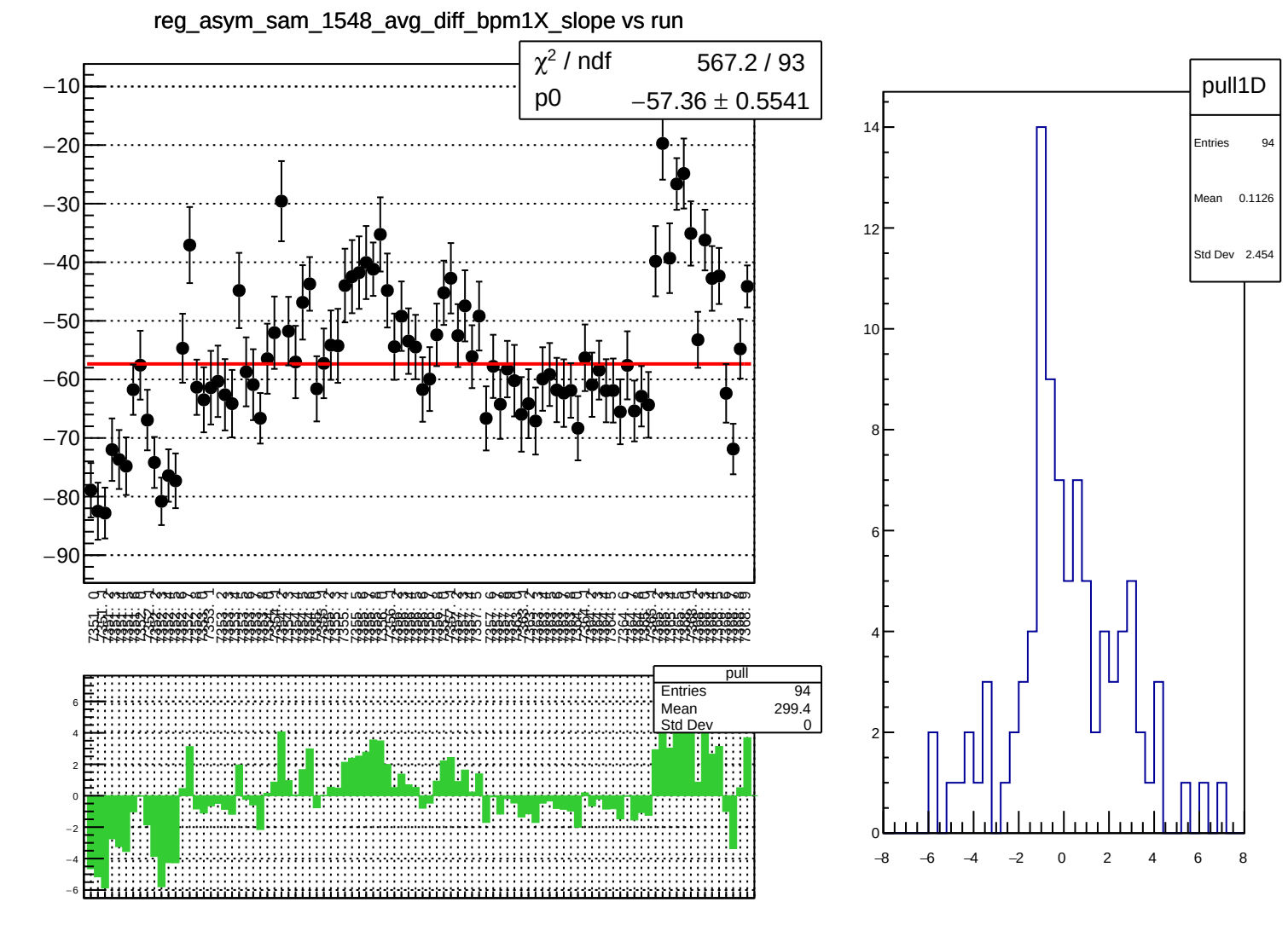

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 500.6 / 93
p0 38.64 ± 0.3994
pull
Entries 94
Mean 297.2
Std Dev 0
pull1D
Entries 94
Mean −0.1081
Std Dev 2.305

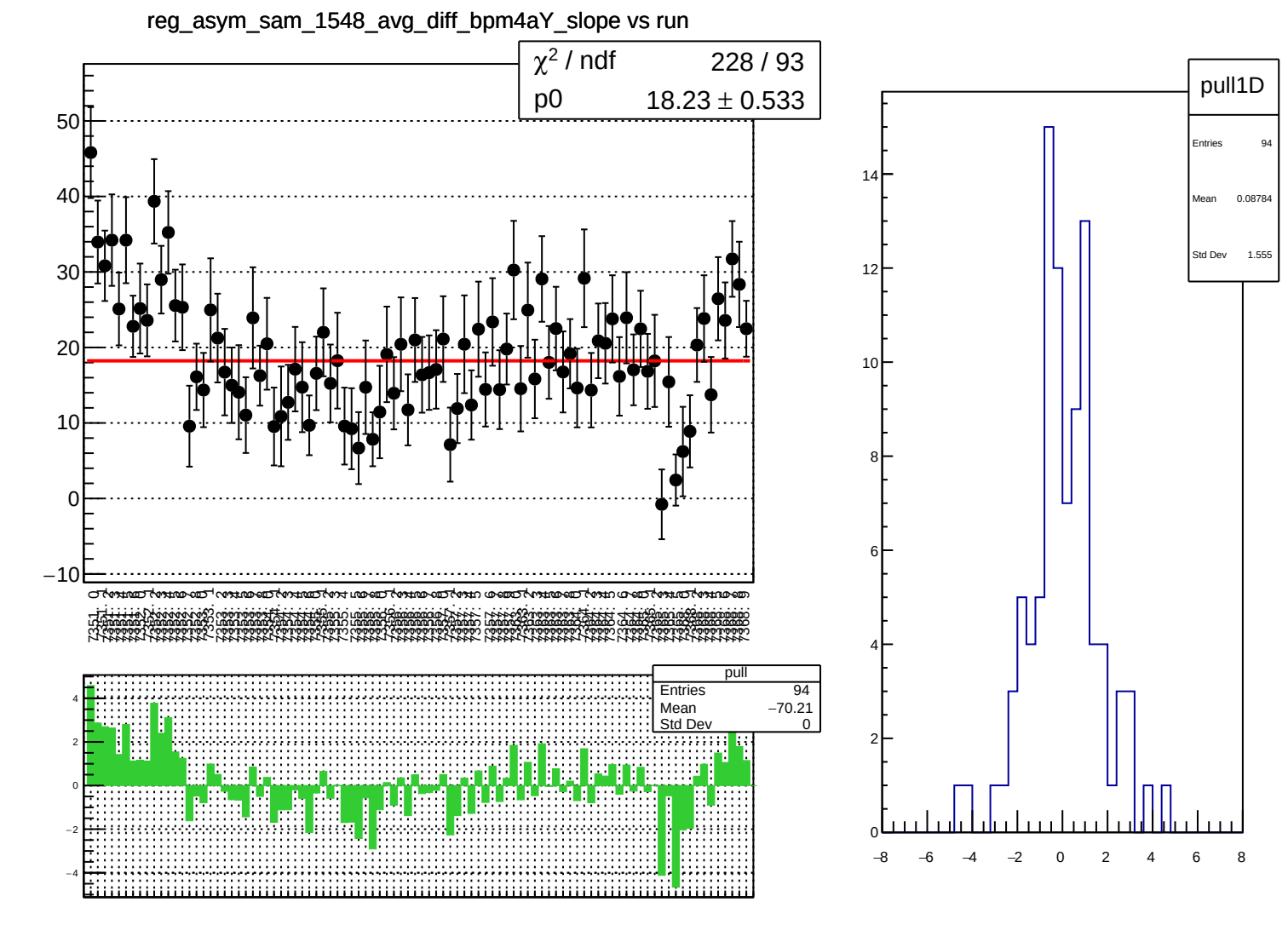

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 214.7 / 93
p0 −9.306 ± 0.3841
pull
Entries 94
Mean −71.26
Std Dev 0
pull1D
Entries 94
Mean −0.0847
Std Dev 1.509

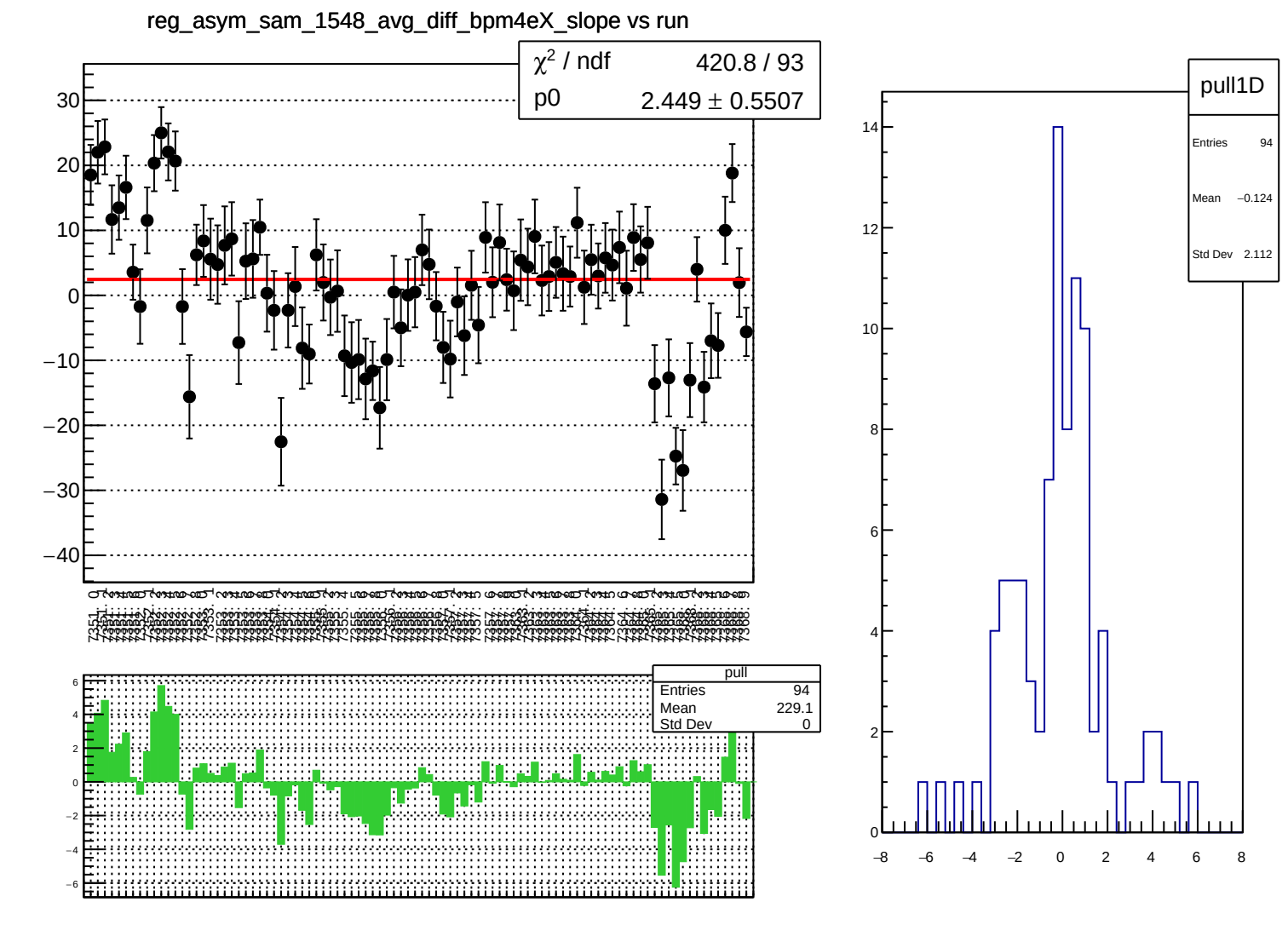

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 379.1 / 93
p0 −9.587 ± 0.397
pull
Entries 94
Mean 240.7
Std Dev 0
pull1D
Entries 94
Mean 0.1122
Std Dev 2.005

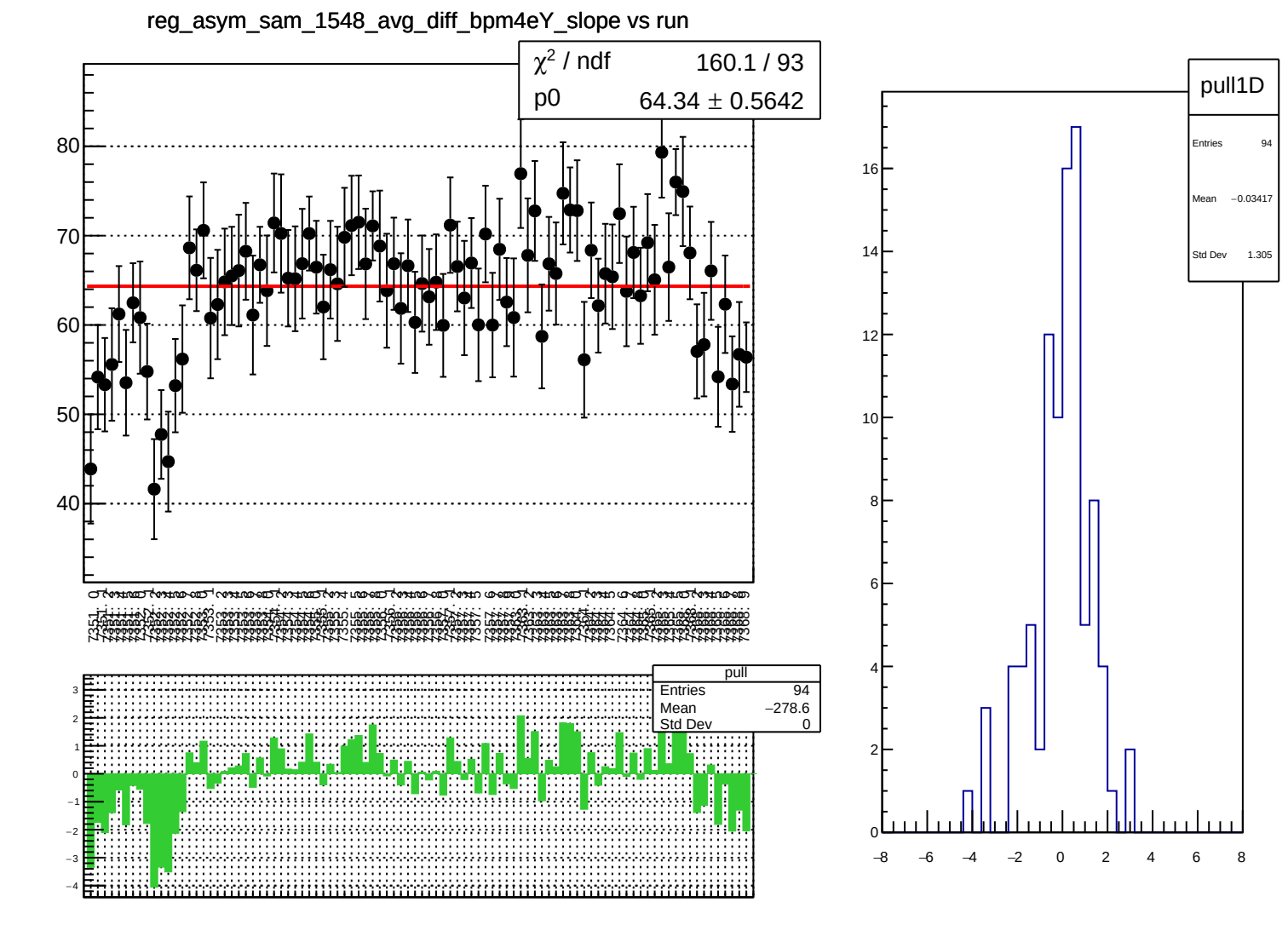

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 157.9 / 93
p0 −55.76 ± 0.4067
pull
Entries 94
Mean −380.9
Std Dev 0
pull1D
Entries 94
Mean 0.02673
Std Dev 1.296

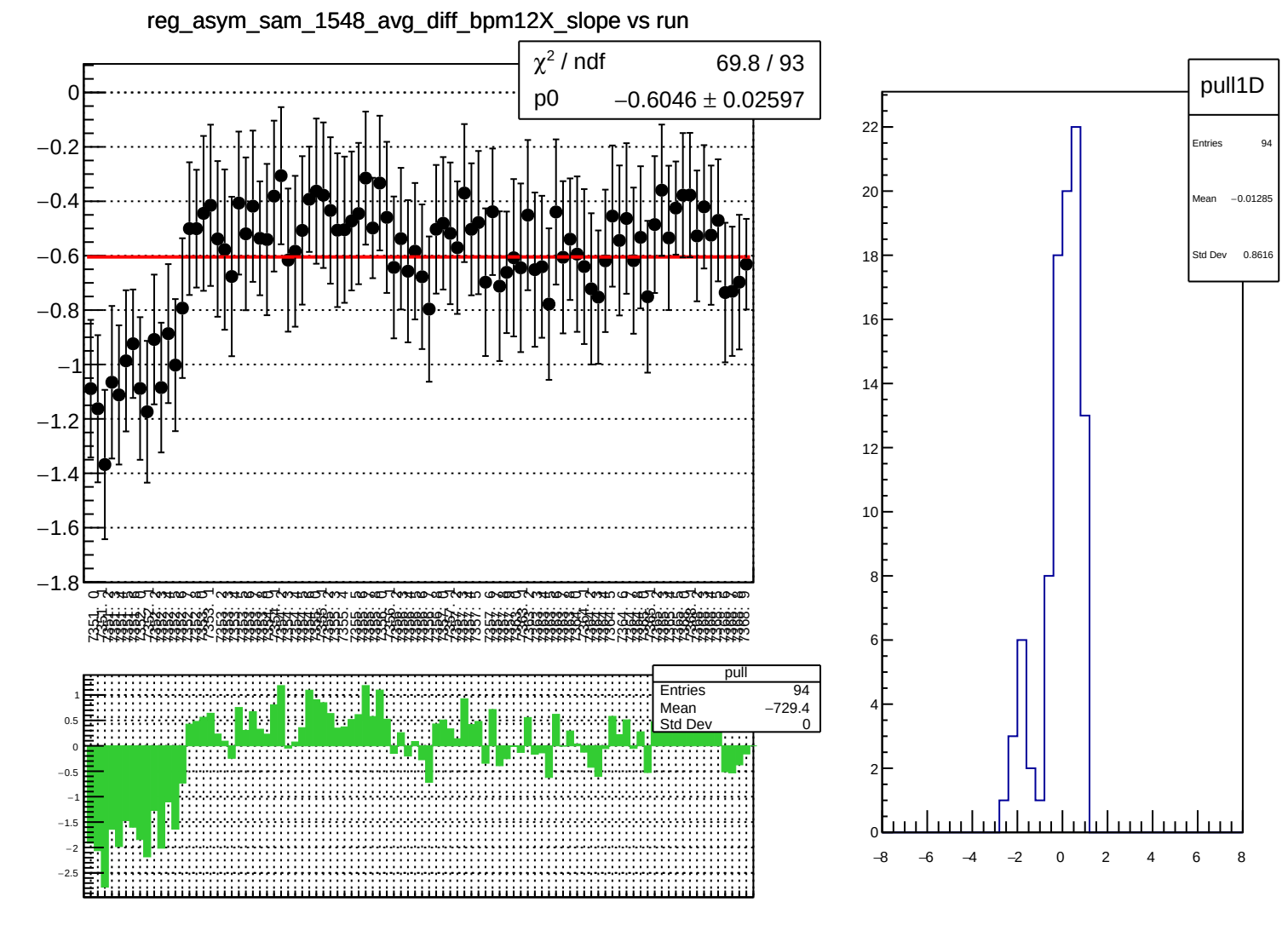

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 71.55 / 93
p0 0.7664 ± 0.01873
pull
Entries 94
Mean −1162
Std Dev 0
pull1D
Entries 94
Mean 0.008036
Std Dev 0.8724

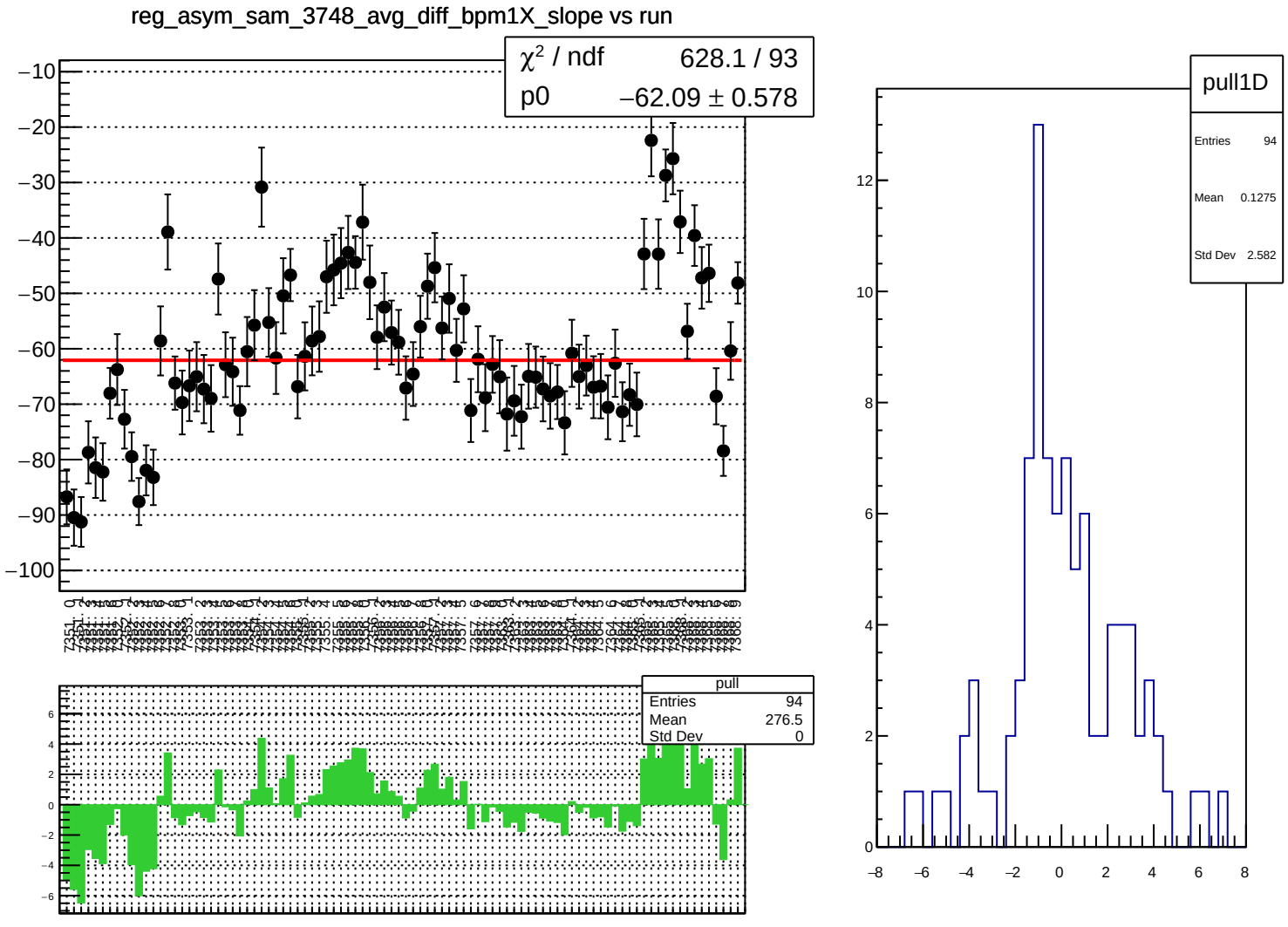

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 567.2 / 93
p0 −57.36 ± 0.5541
pull
Entries 94
Mean 299.4
Std Dev 0
pull1D
Entries 94
Mean 0.1126
Std Dev 2.454

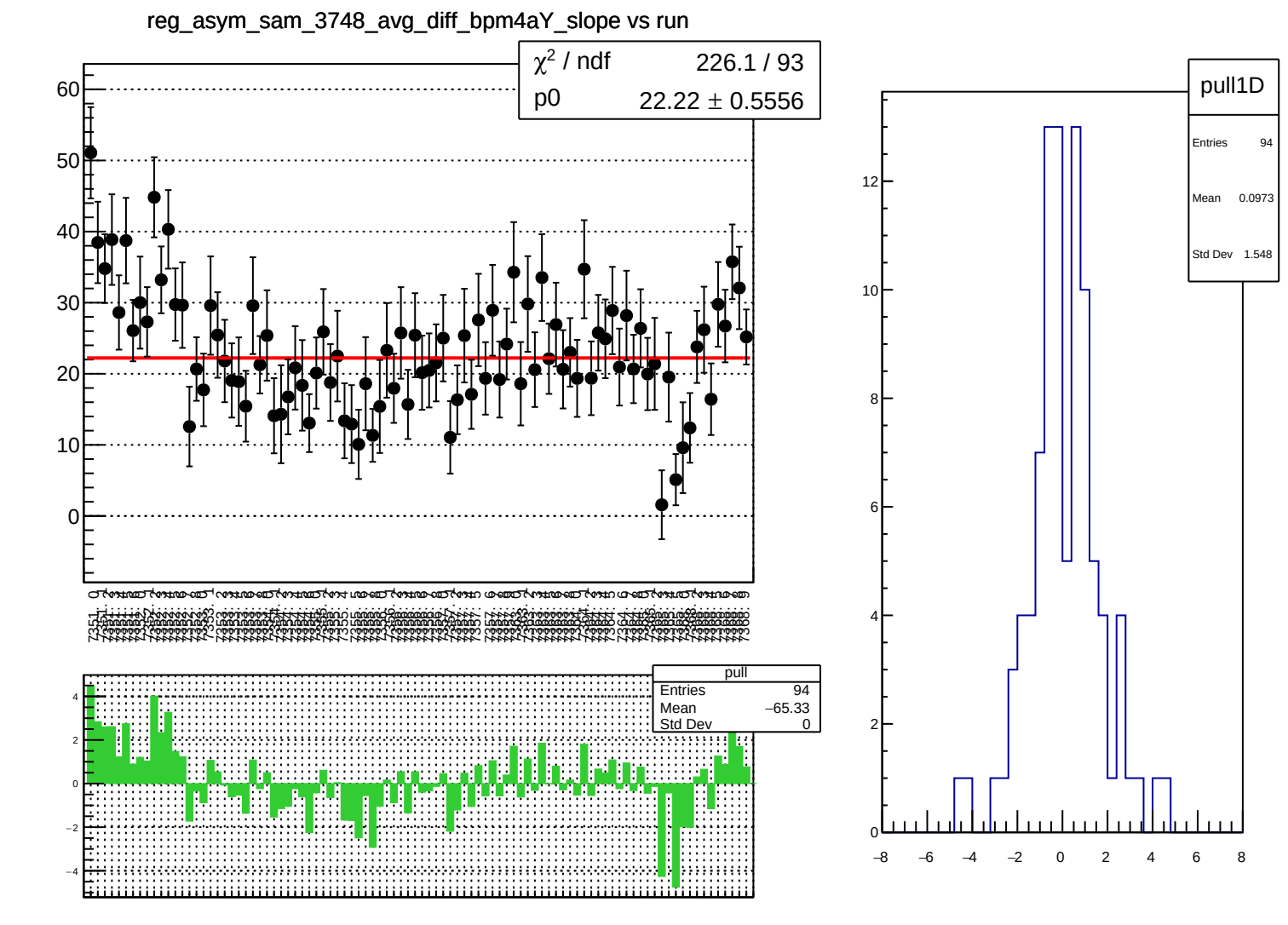

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 228 / 93
p0 18.23 ± 0.533
pull
Entries 94
Mean −70.21
Std Dev 0
pull1D
Entries 94
Mean 0.08784
Std Dev 1.555

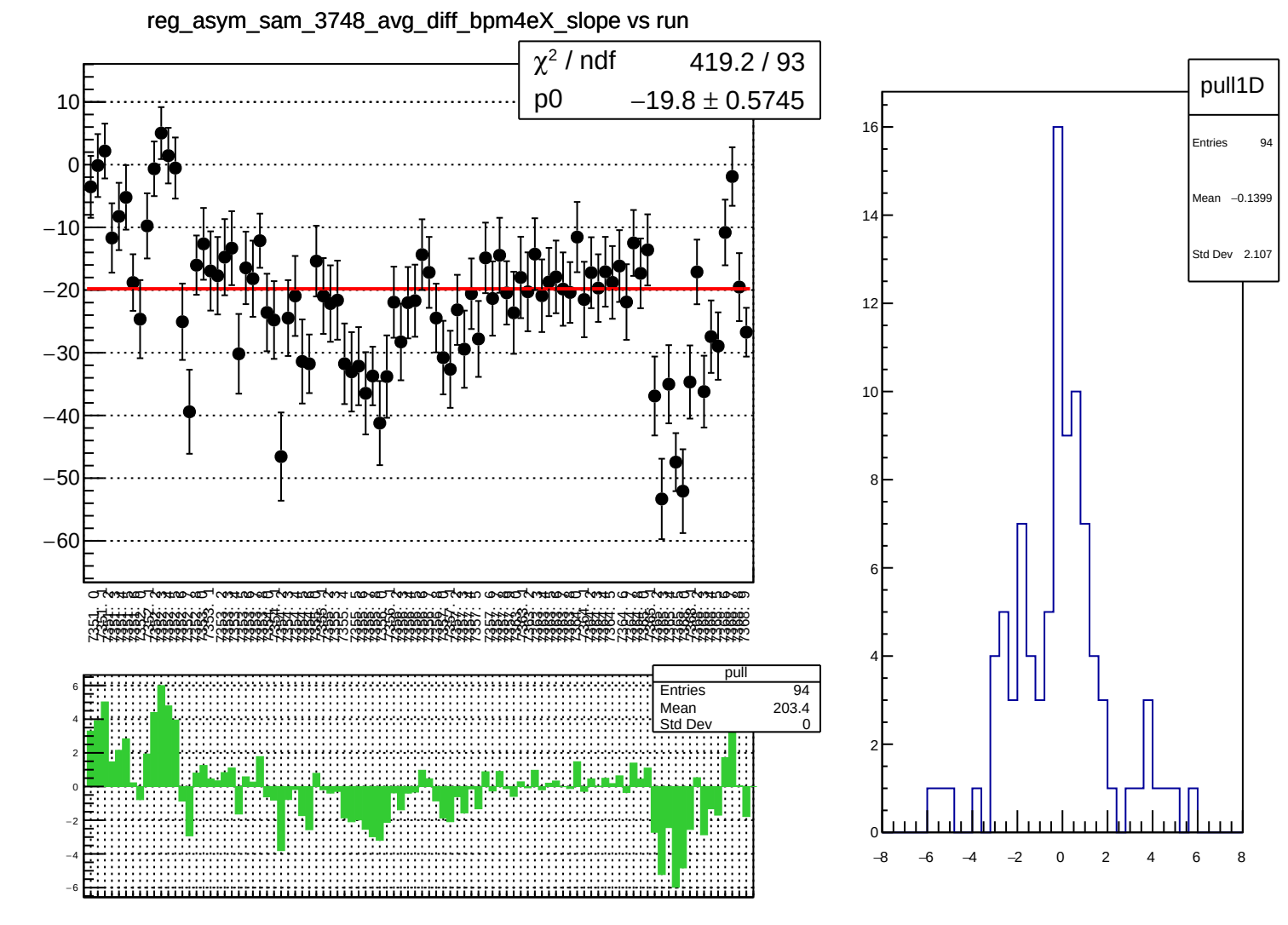

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 420.8 / 93
p0 2.449 ± 0.5507
pull
Entries 94
Mean 229.1
Std Dev 0
pull1D
Entries 94
Mean −0.124
Std Dev 2.112

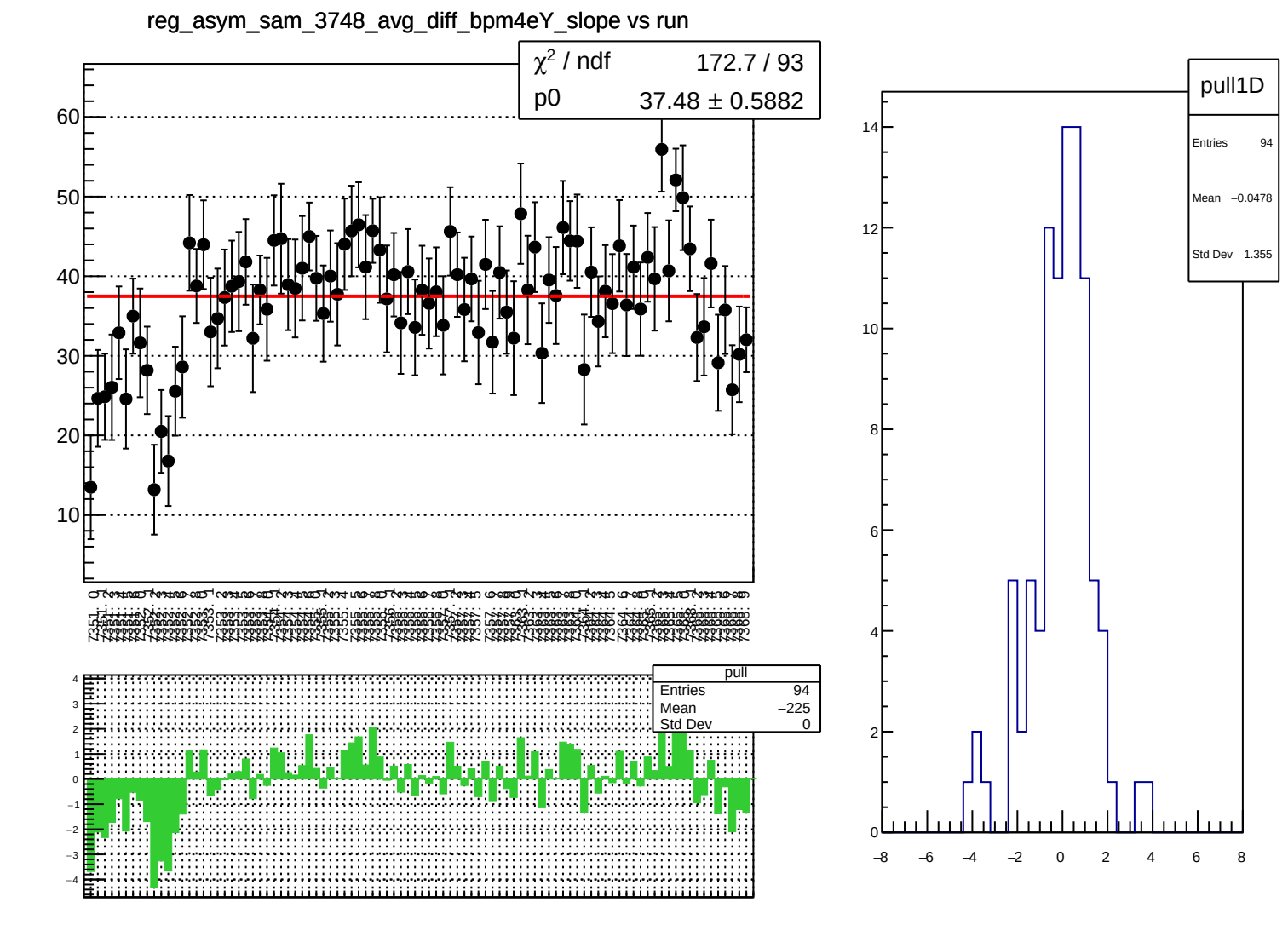

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 160.1 / 93
p0 64.34 ± 0.5642
pull
Entries 94
Mean −278.6
Std Dev 0
pull1D
Entries 94
Mean −0.03417
Std Dev 1.305

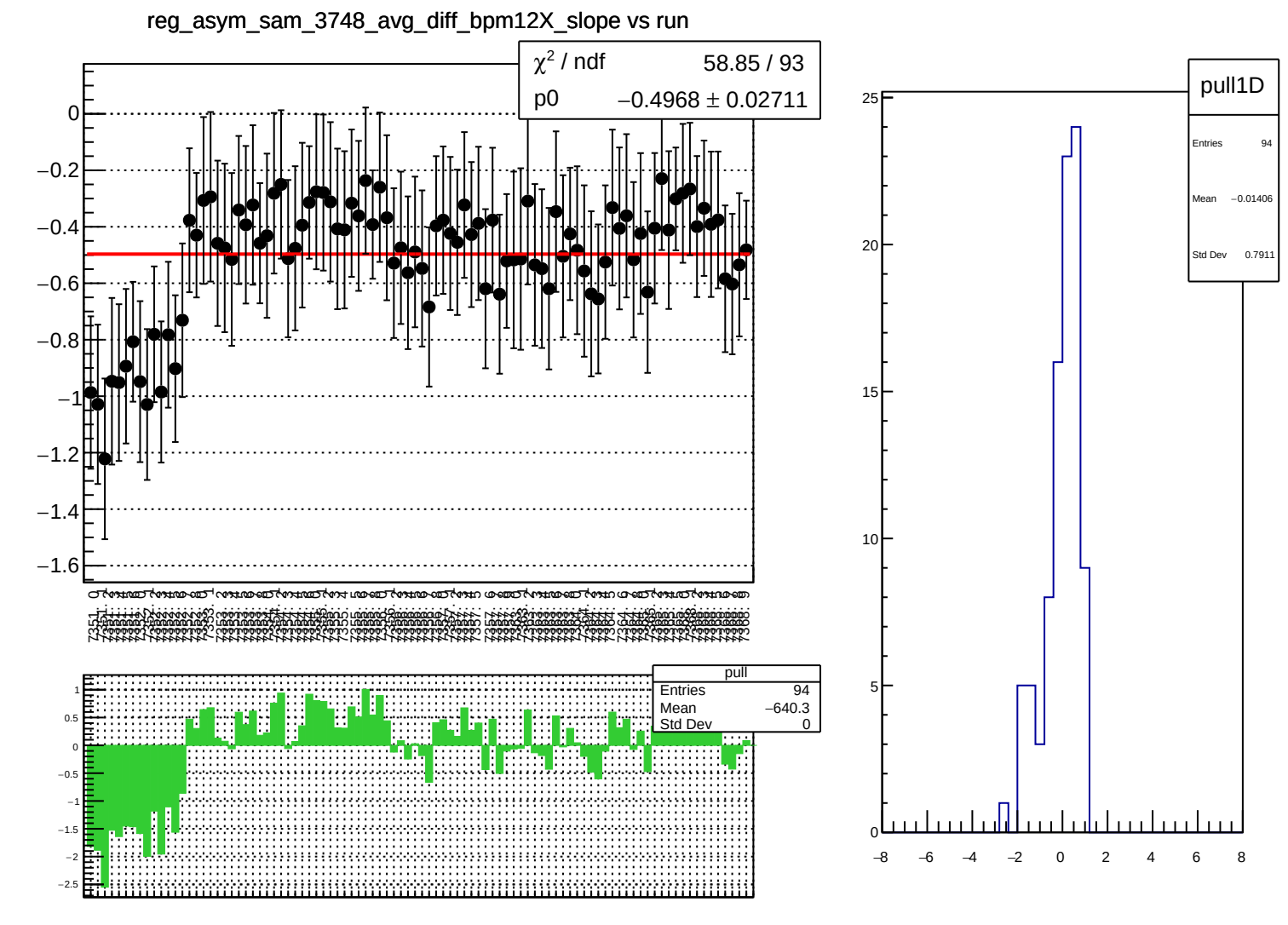

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 69.8 / 93
p0 −0.6046 ± 0.02597
pull
Entries 94
Mean −729.4
Std Dev 0
pull1D
Entries 94
Mean −0.01285
Std Dev 0.8616

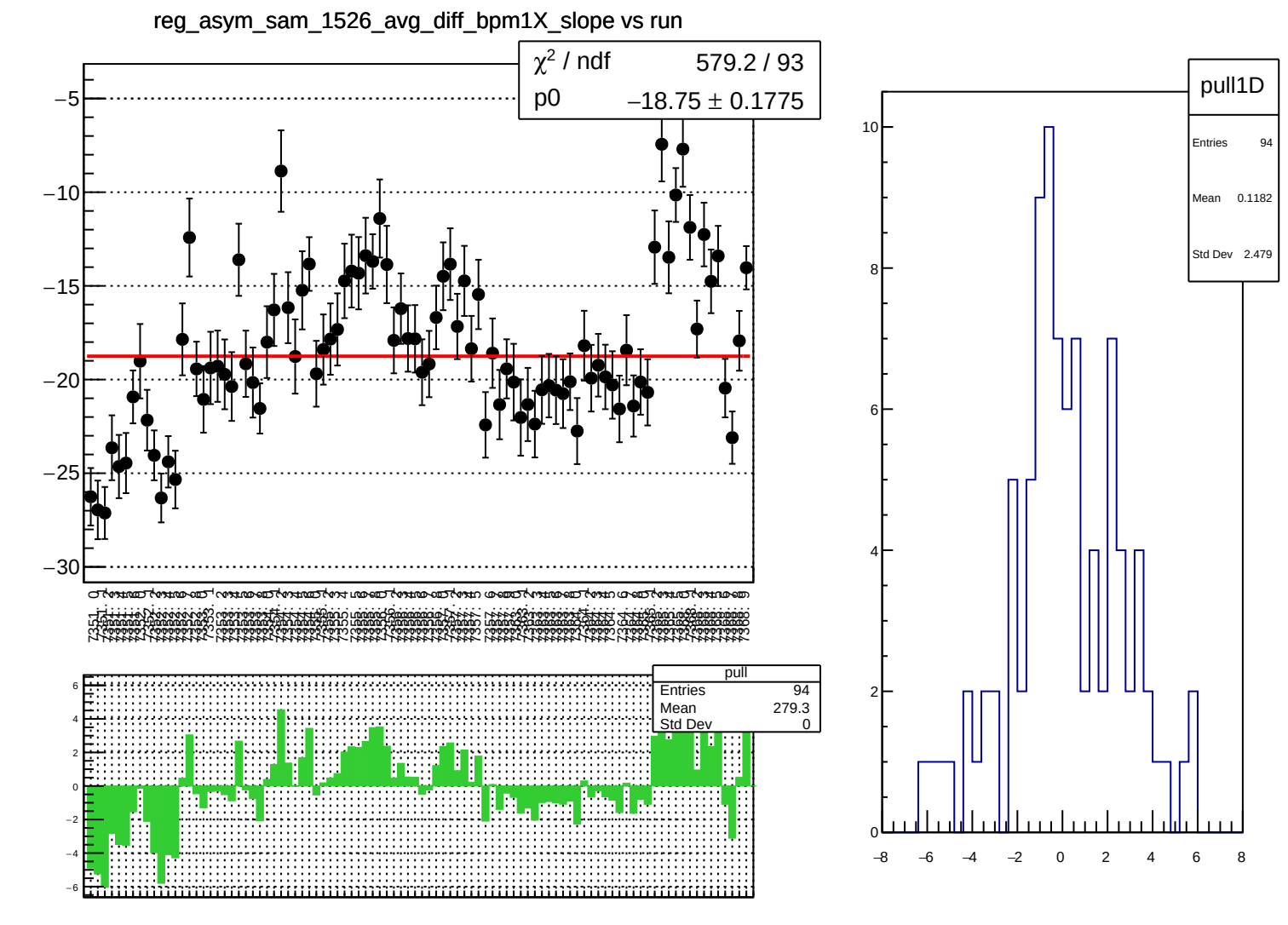

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 628.1 / 93
p0 −62.09 ± 0.578
pull
Entries 94
Mean 276.5
Std Dev 0
pull1D
Entries 94
Mean 0.1275
Std Dev 2.582

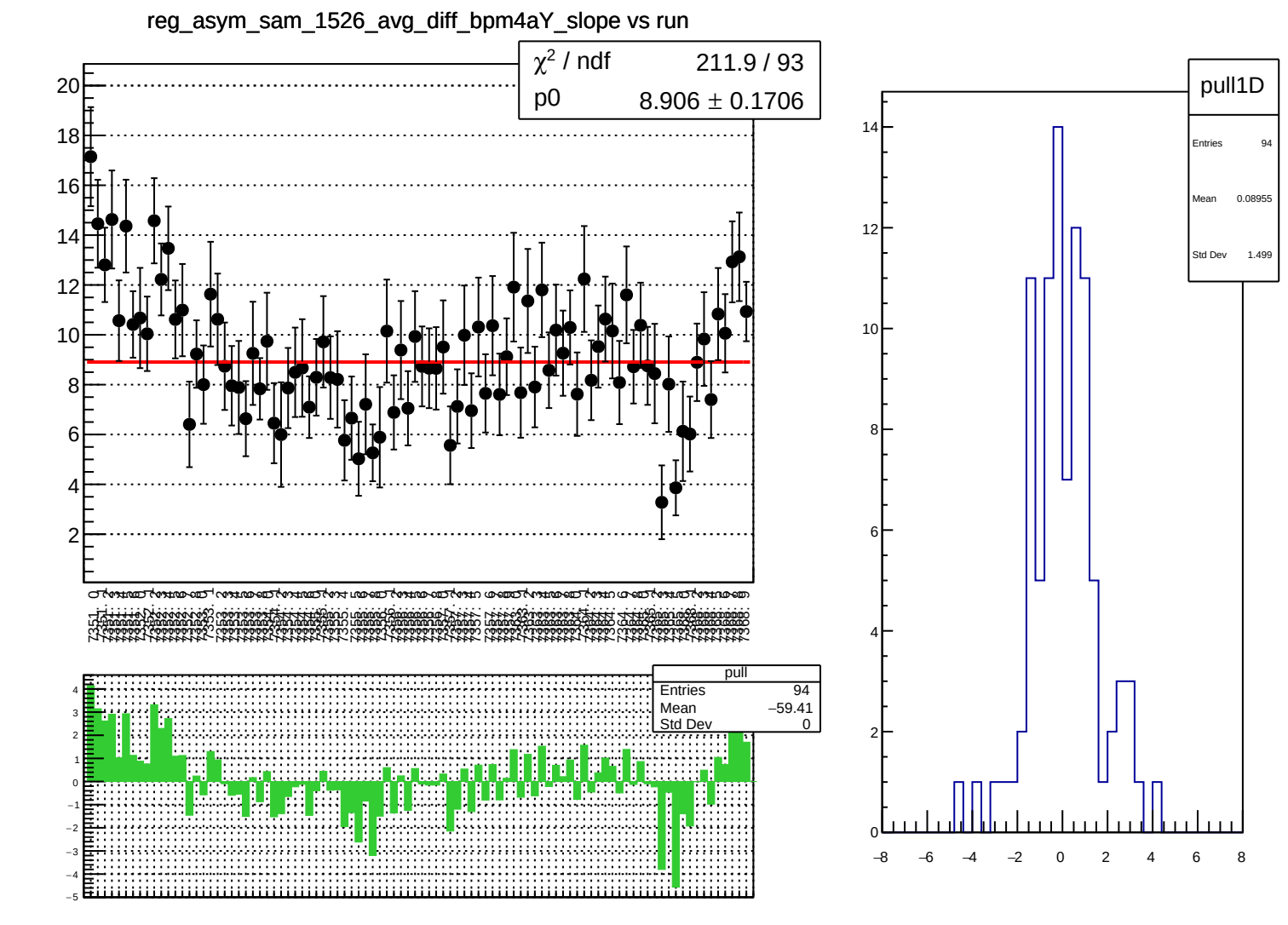

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 226.1 / 93
p0 22.22 ± 0.5556
pull
Entries 94
Mean −65.33
Std Dev 0
pull1D
Entries 94
Mean 0.0973
Std Dev 1.548

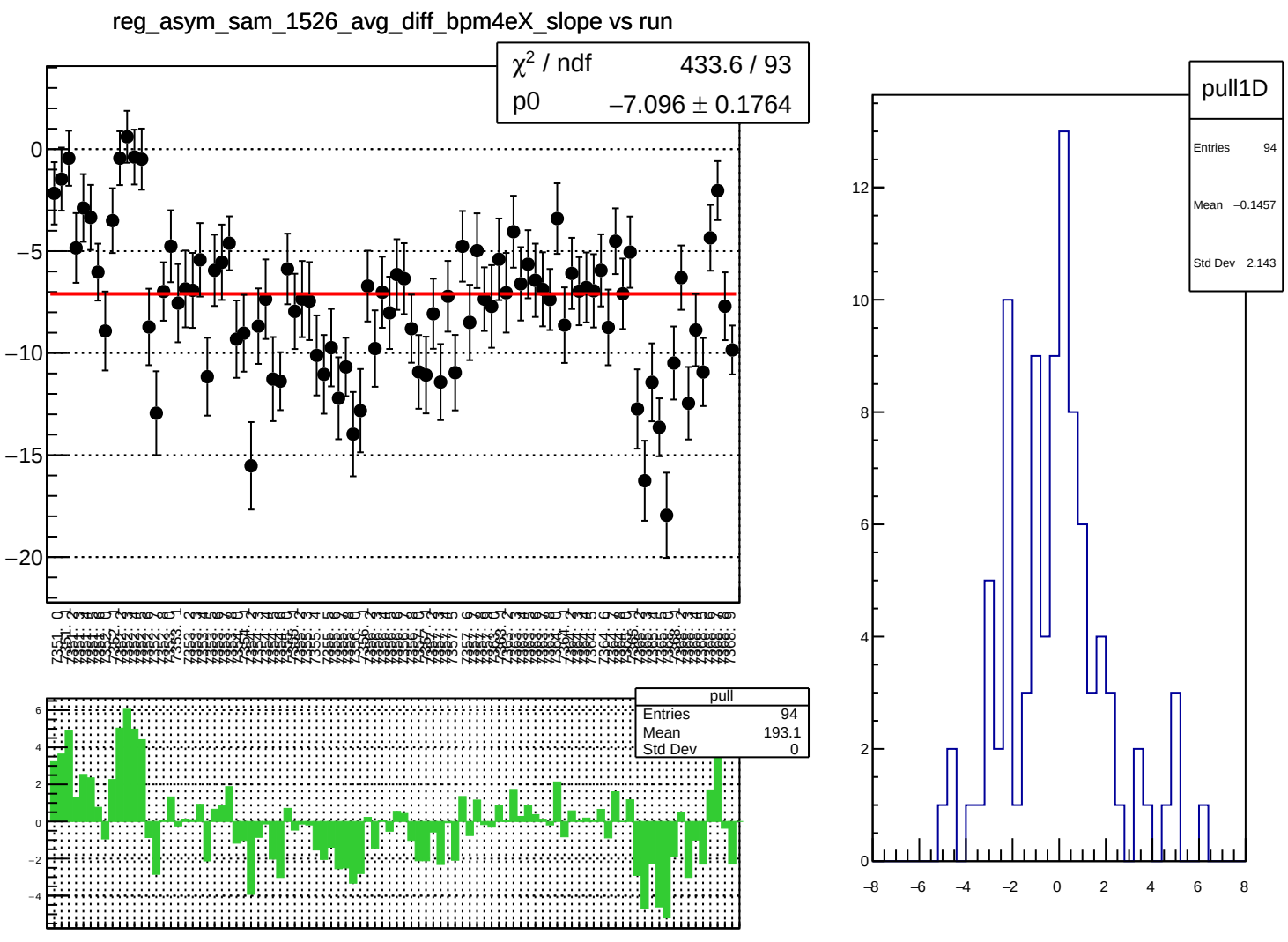

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 419.2 / 93
p0 −19.8 ± 0.5745
pull
Entries 94
Mean 203.4
Std Dev 0
pull1D
Entries 94
Mean −0.1399
Std Dev 2.107

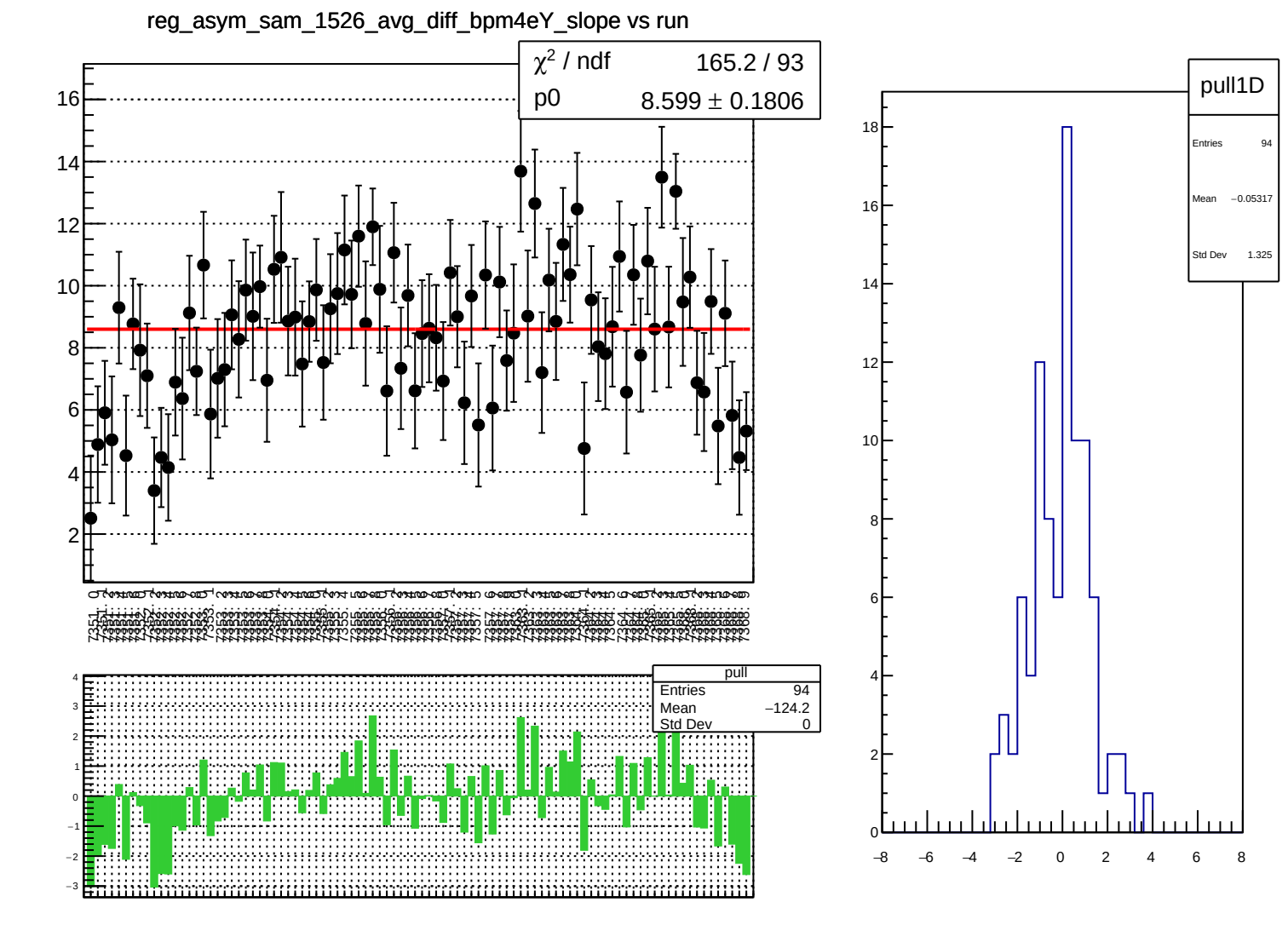

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 172.7 / 93
p0 37.48 ± 0.5882
pull
Entries 94
Mean −225
Std Dev 0
pull1D
Entries 94
Mean −0.0478
Std Dev 1.355

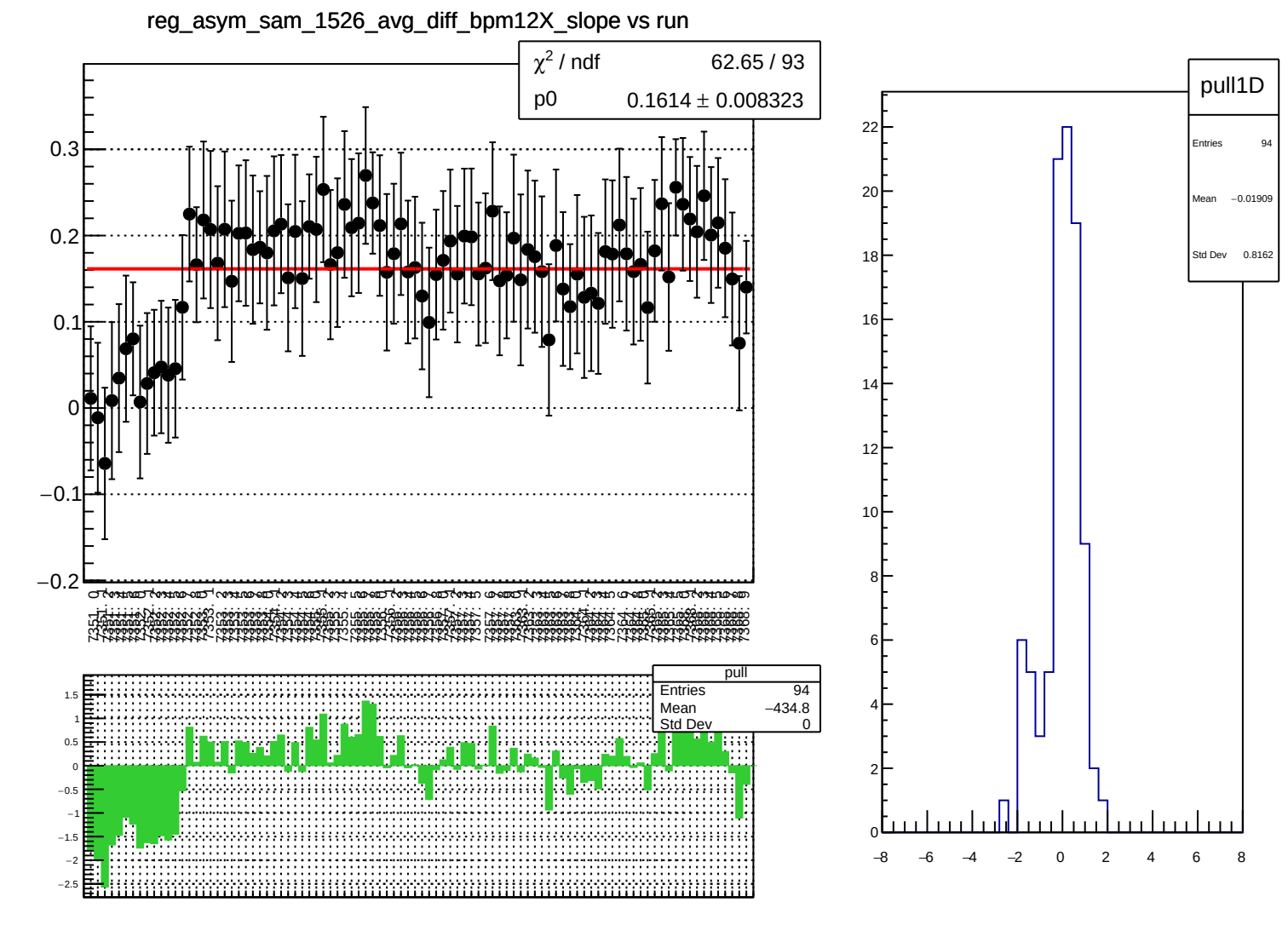

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 58.85 / 93
p0 −0.4968 ± 0.02711
pull
Entries 94
Mean −640.3
Std Dev 0
pull1D
Entries 94
Mean −0.01406
Std Dev 0.7911

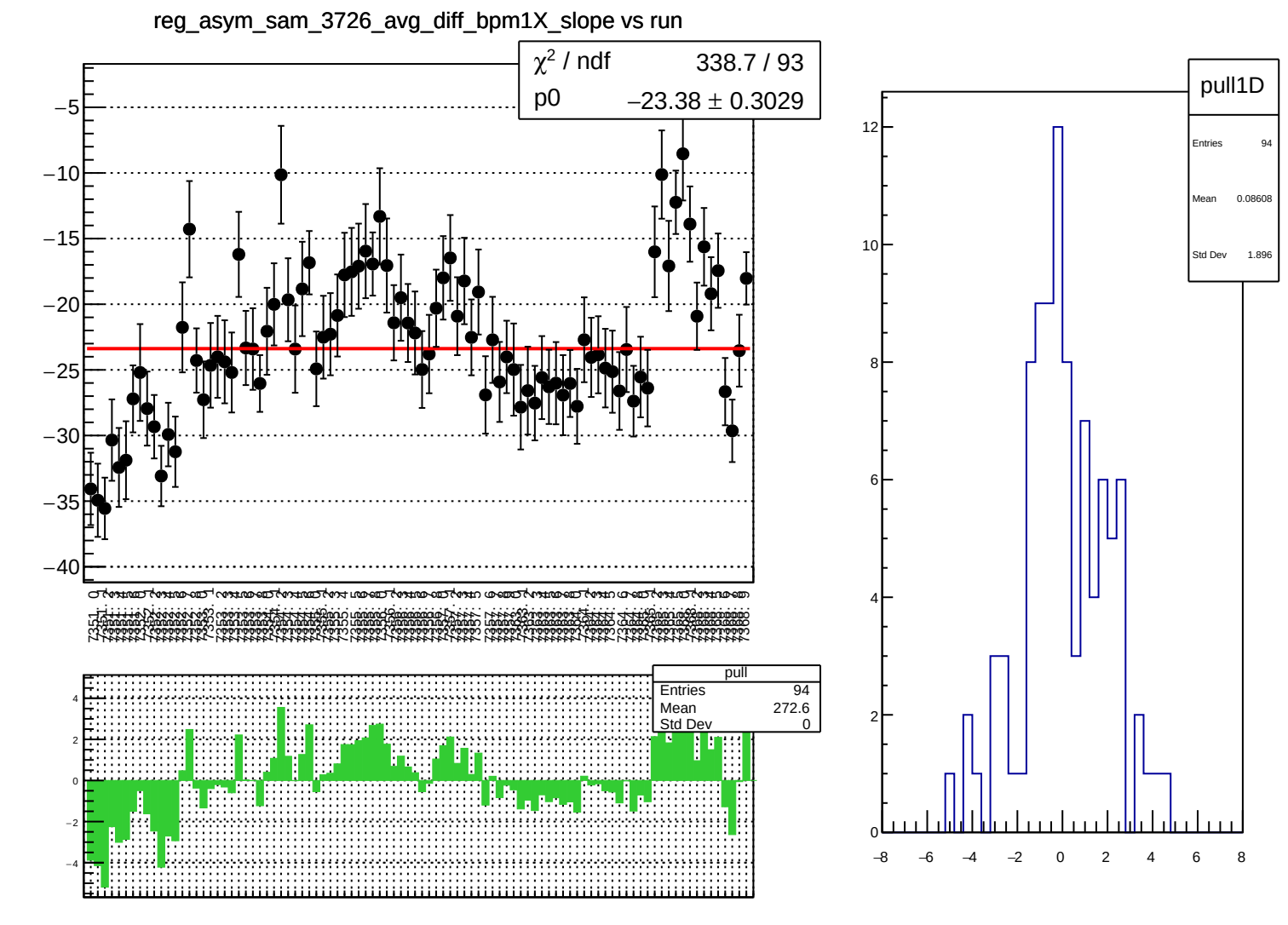

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 579.2 / 93
p0 −18.75 ± 0.1775
pull
Entries 94
Mean 279.3
Std Dev 0
pull1D
Entries 94
Mean 0.1182
Std Dev 2.479

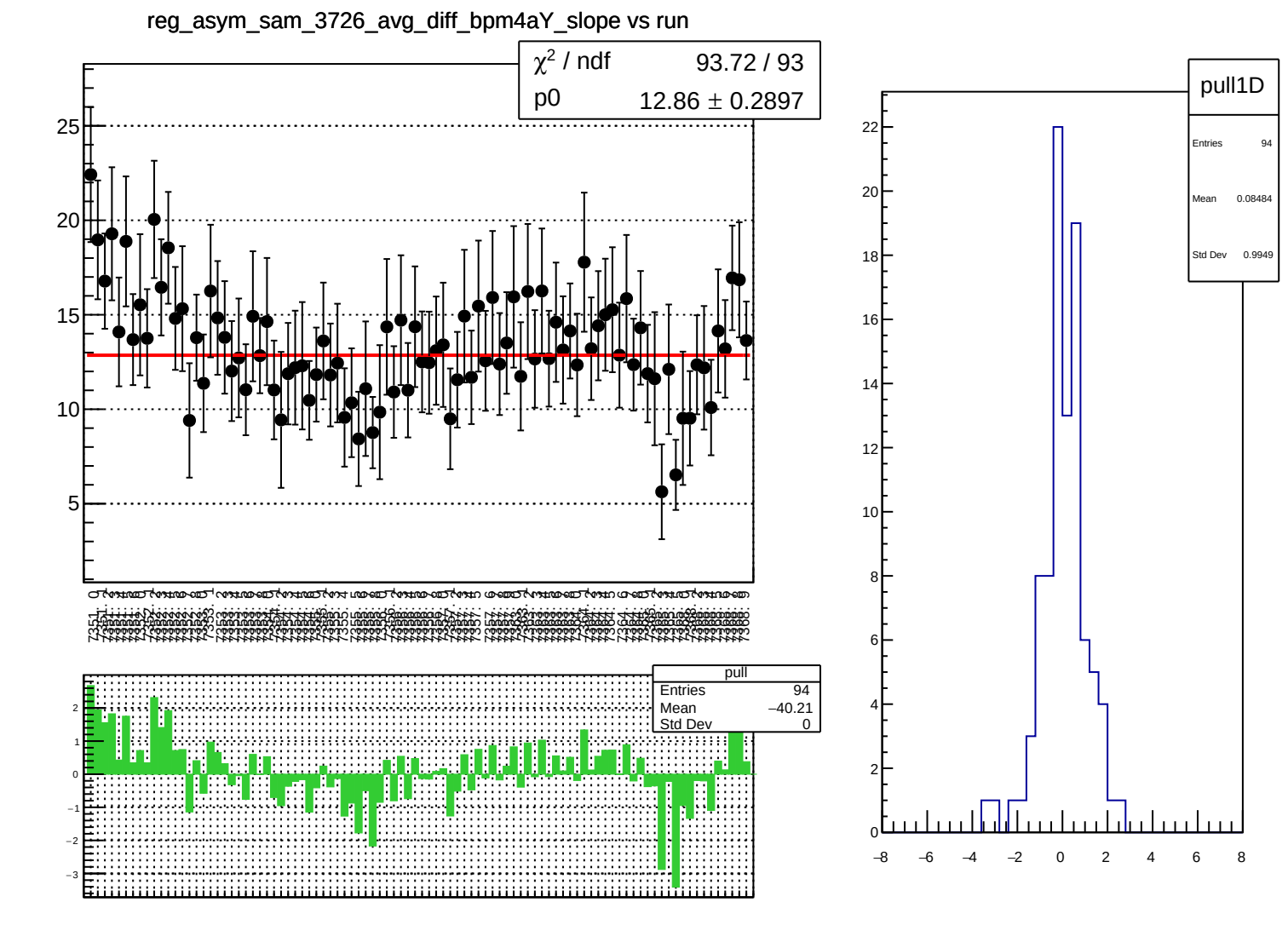

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 211.9 / 93
p0 8.906 ± 0.1706
pull
Entries 94
Mean −59.41
Std Dev 0
pull1D
Entries 94
Mean 0.08955
Std Dev 1.499

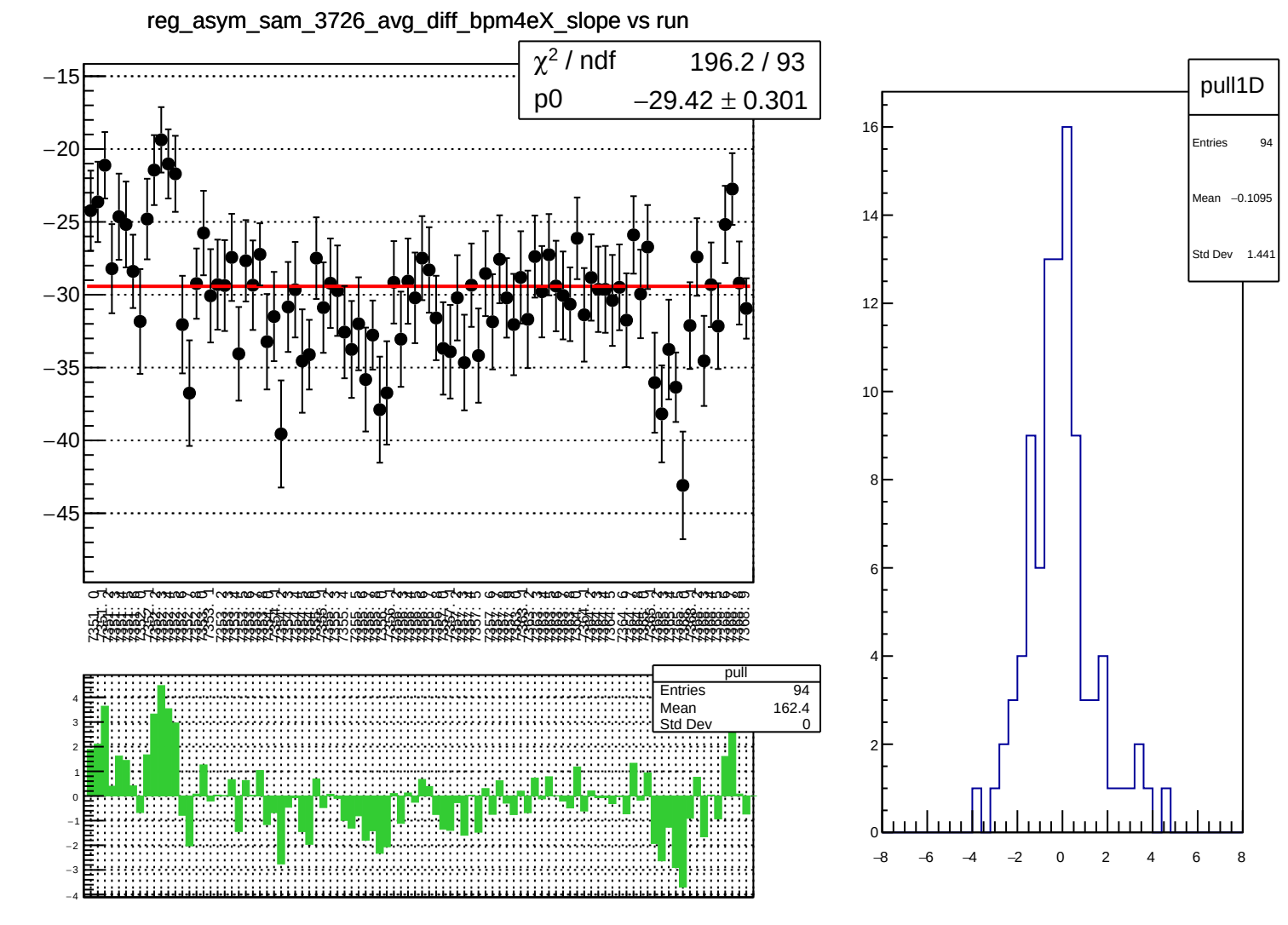

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 433.6 / 93
p0 −7.096 ± 0.1764
0
−5
−10
−15
−20
pull
Entries 94
Mean 193.1
Std Dev 0
6
4
2
0
−2
−4
pull1D
Entries 94
Mean −0.1457
Std Dev 2.143
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

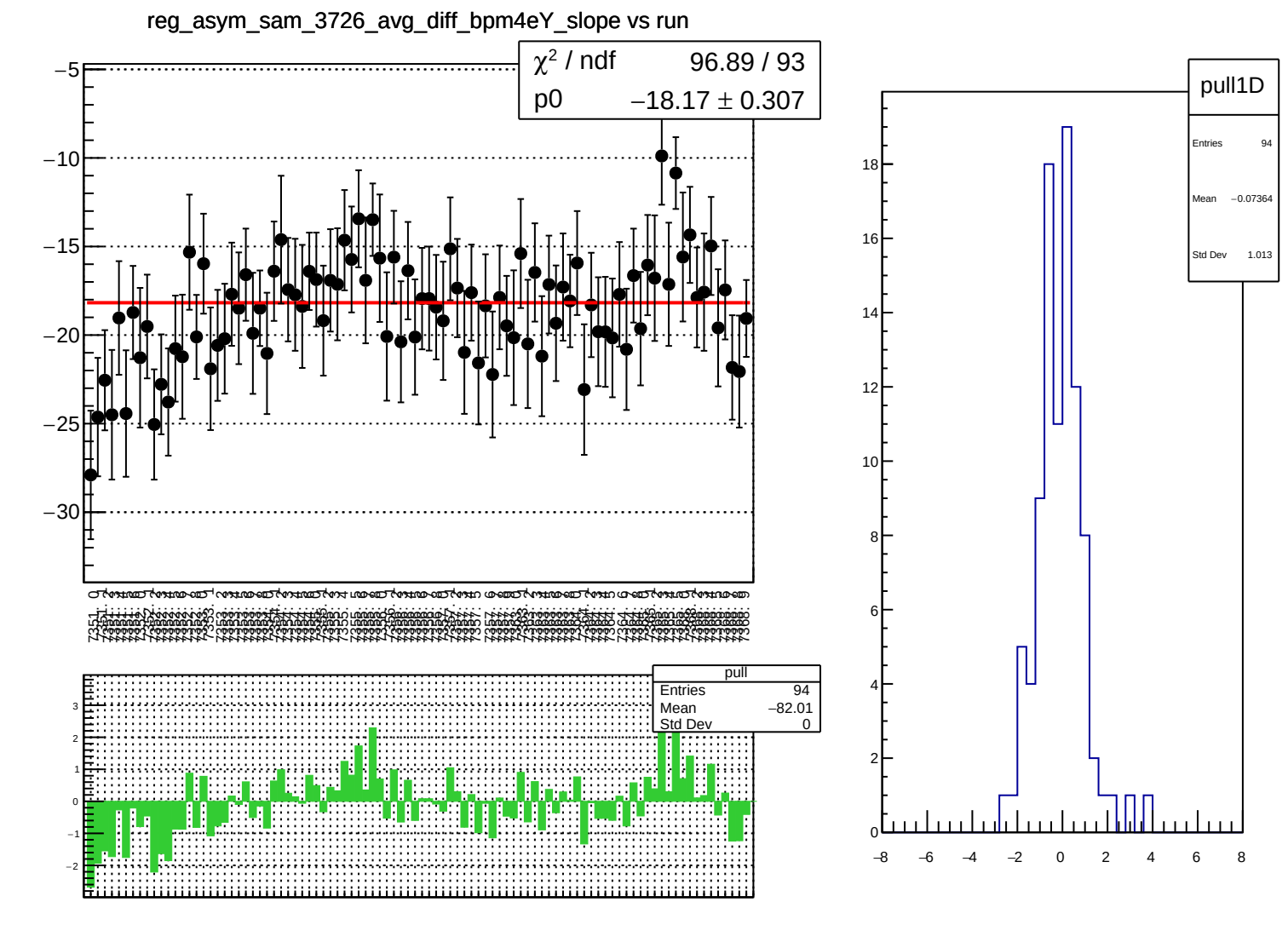

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 165.2 / 93
p0 8.599 ± 0.1806
pull
Entries 94
Mean −124.2
Std Dev 0
pull1D
Entries 94
Mean −0.05317
Std Dev 1.325

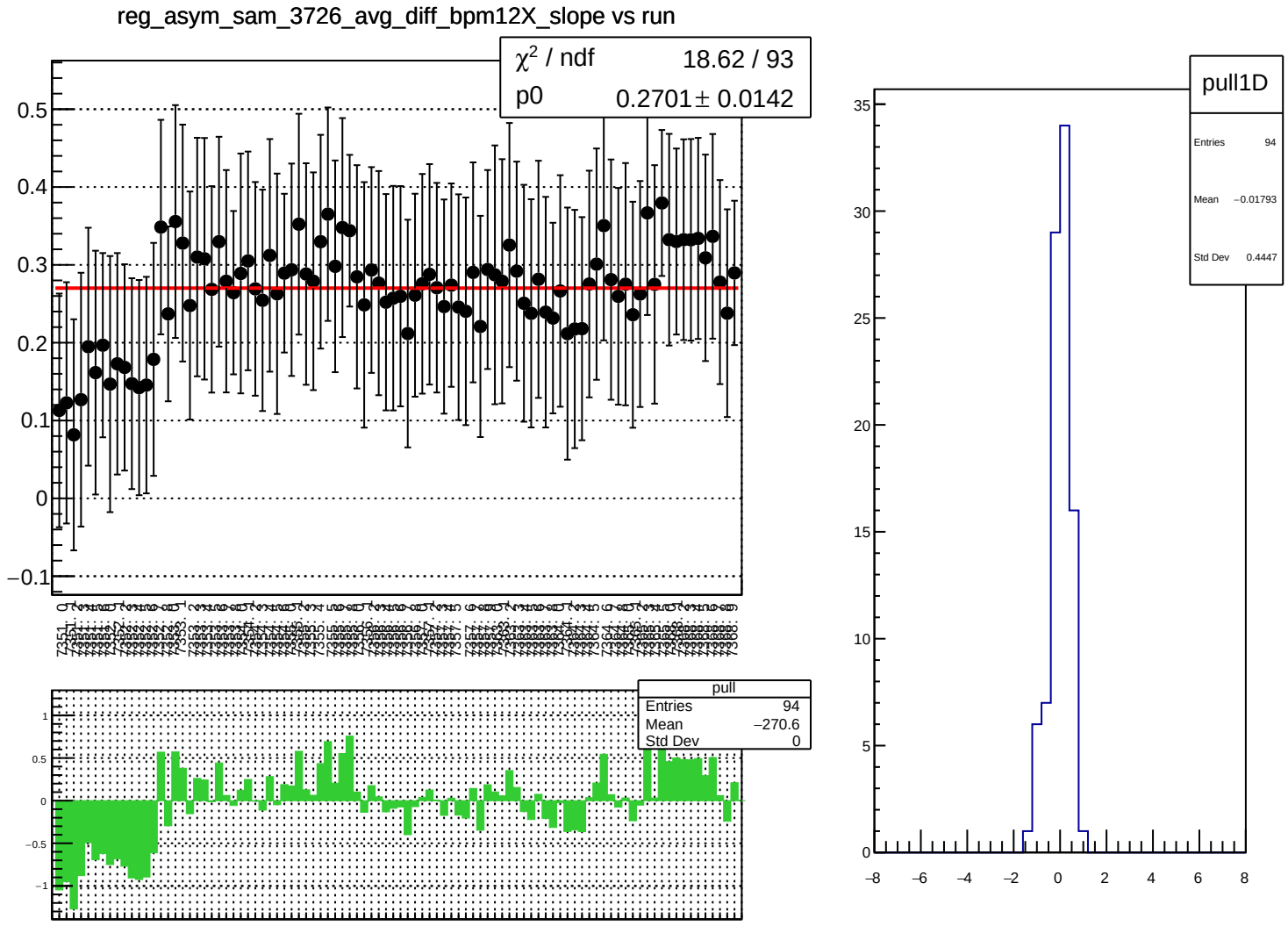

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 62.65 / 93
p0 0.1614 ± 0.008323
pull
Entries 94
Mean −434.8
Std Dev 0
pull1D
Entries 94
Mean −0.01909
Std Dev 0.8162

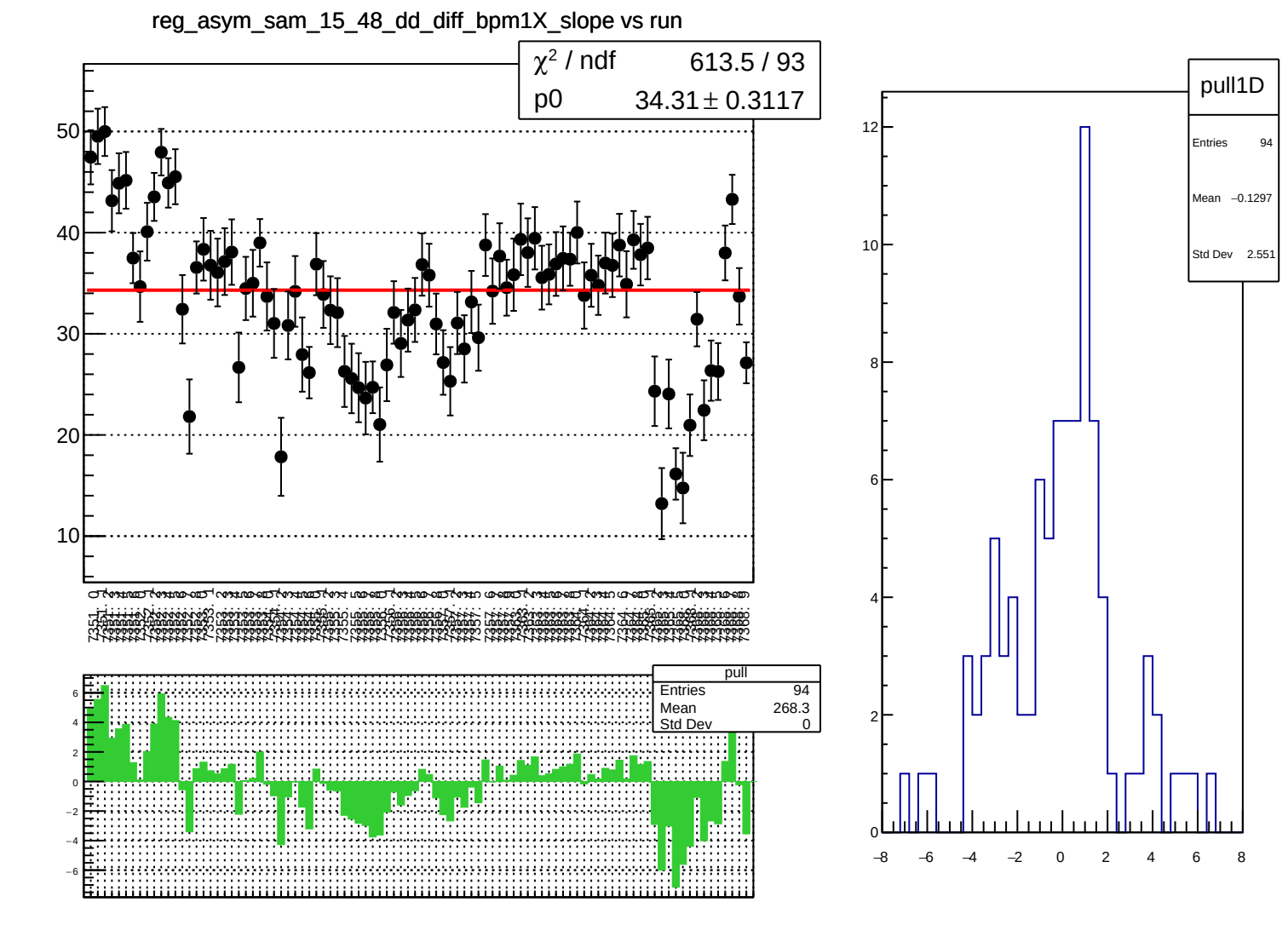

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 338.7 / 93
p0 −23.38 ± 0.3029
pull
Entries 94
Mean 272.6
Std Dev 0
pull1D
Entries 94
Mean 0.08608
Std Dev 1.896

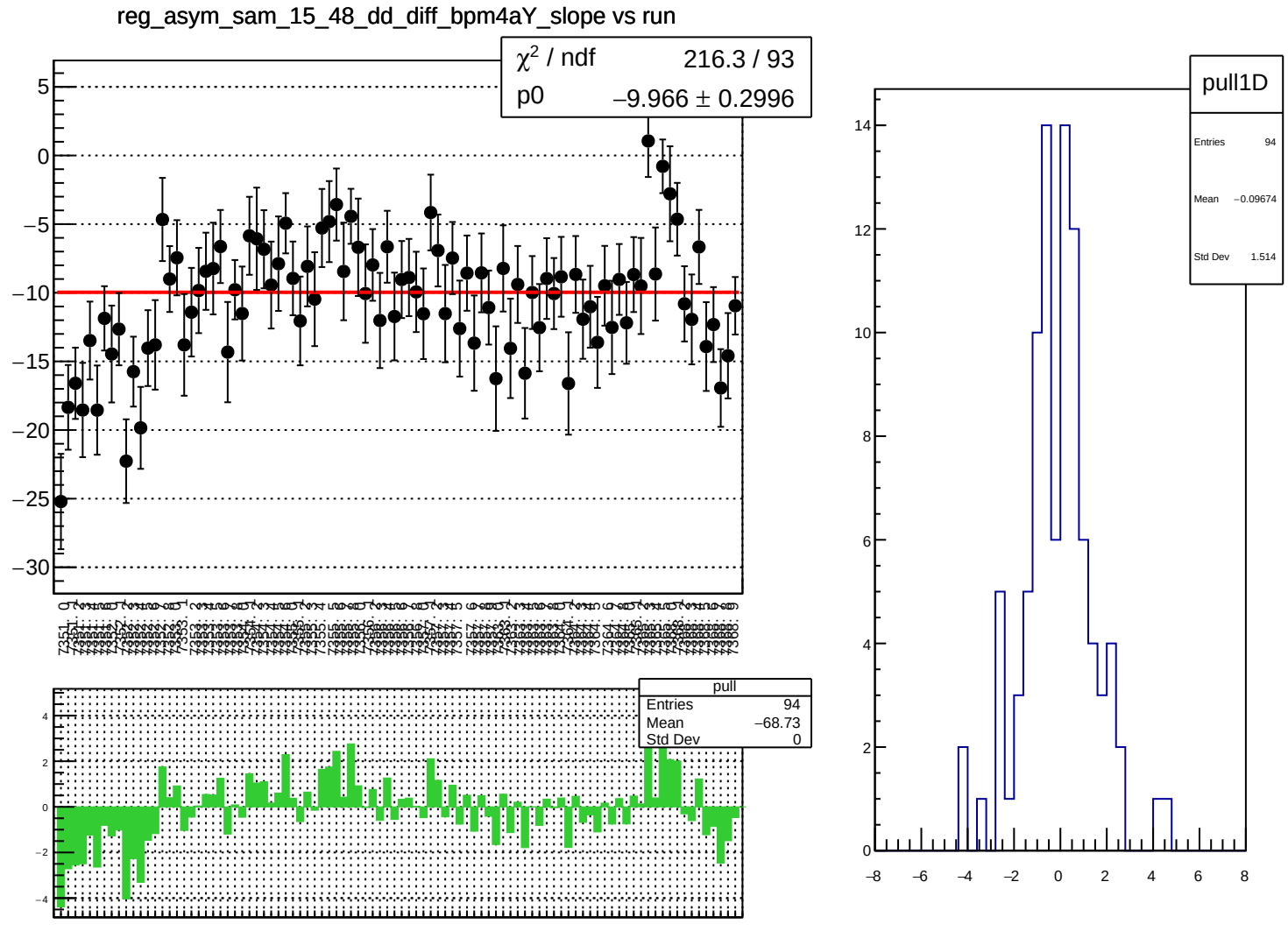

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 93.72 / 93
p0 12.86 ± 0.2897
pull
Entries 94
Mean −40.21
Std Dev 0
pull1D
Entries 94
Mean 0.08484
Std Dev 0.9949

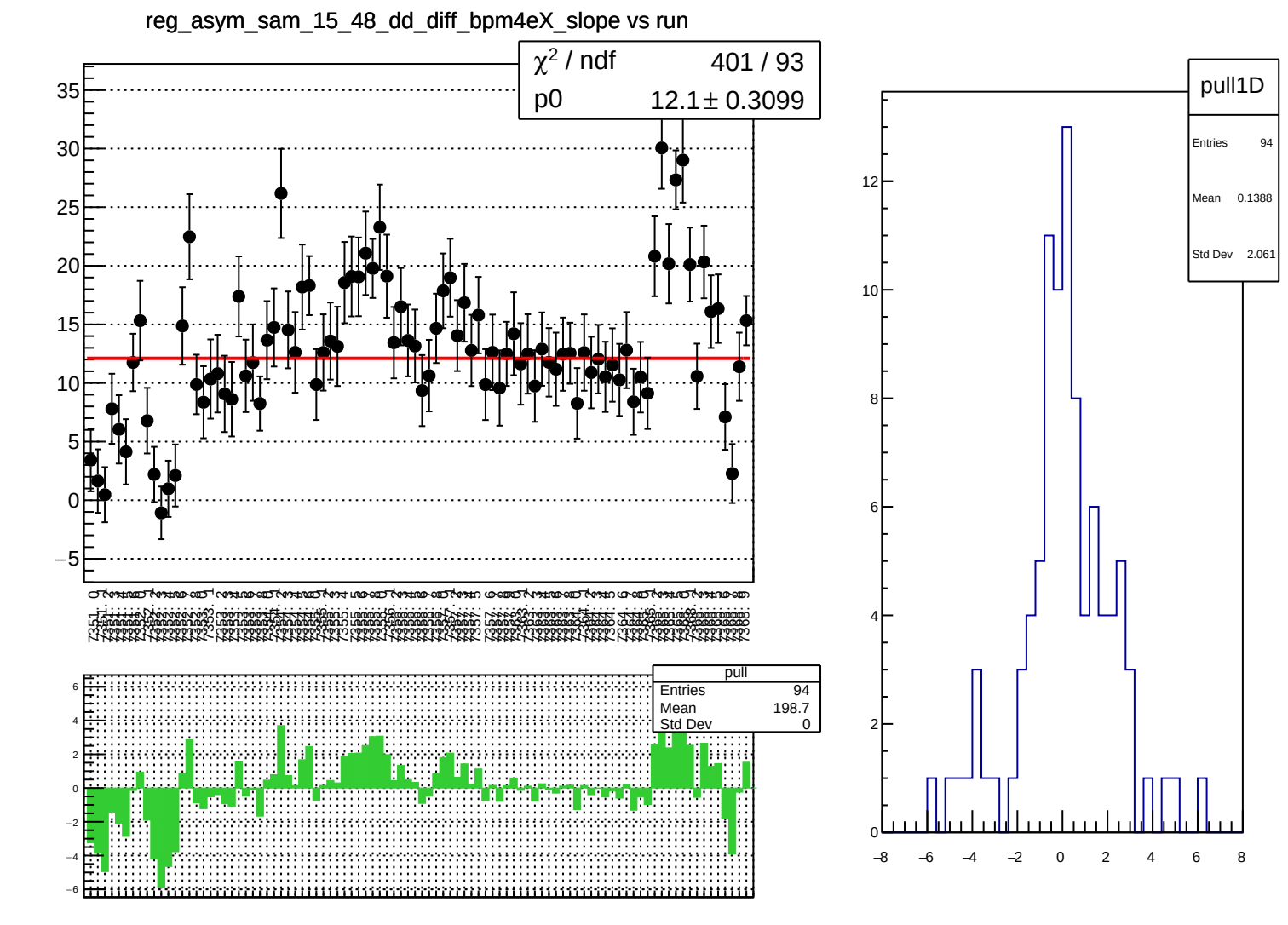

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 196.2 / 93
p0 −29.42 ± 0.301
pull
Entries 94
Mean 162.4
Std Dev 0
pull1D
Entries 94
Mean −0.1095
Std Dev 1.441

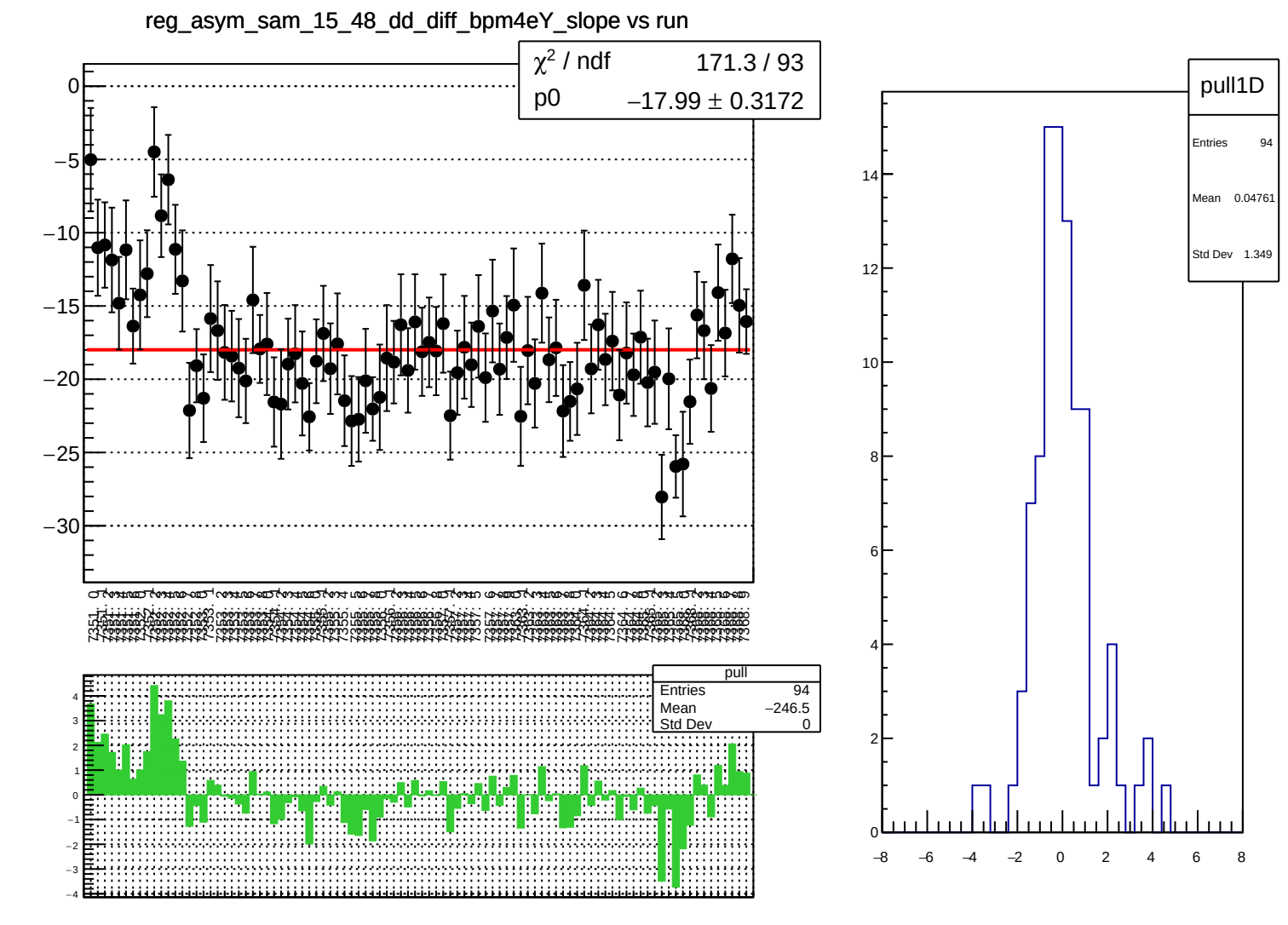

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 96.89 / 93
p0 −18.17 ± 0.307
pull
Entries 94
Mean −82.01
Std Dev 0
pull1D
Entries 94
Mean −0.07364
Std Dev 1.013

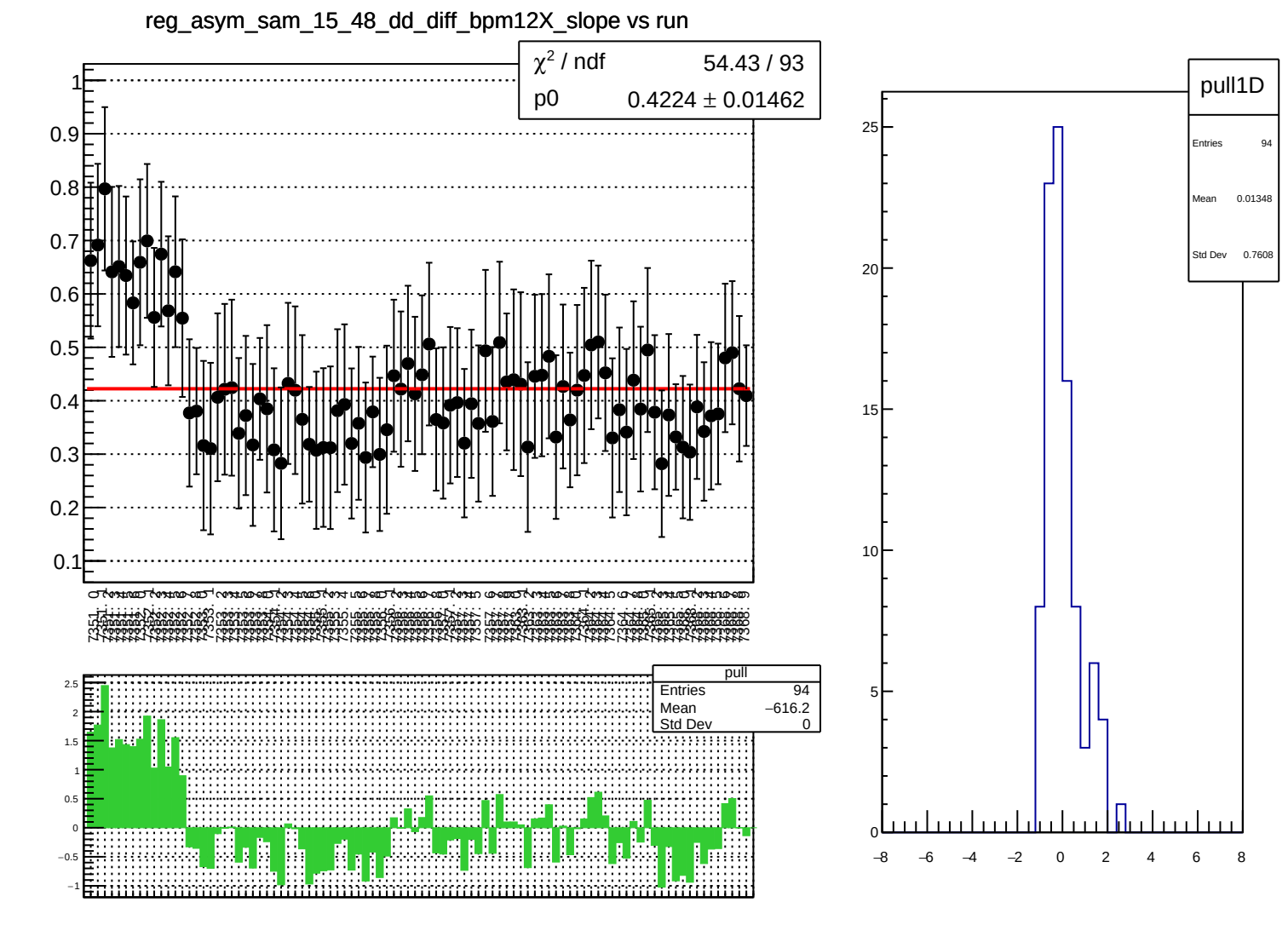

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 18.62 / 93
p0 0.2701 ± 0.0142
pull
Entries 94
Mean −270.6
Std Dev 0
pull1D
Entries 94
Mean −0.01793
Std Dev 0.4447

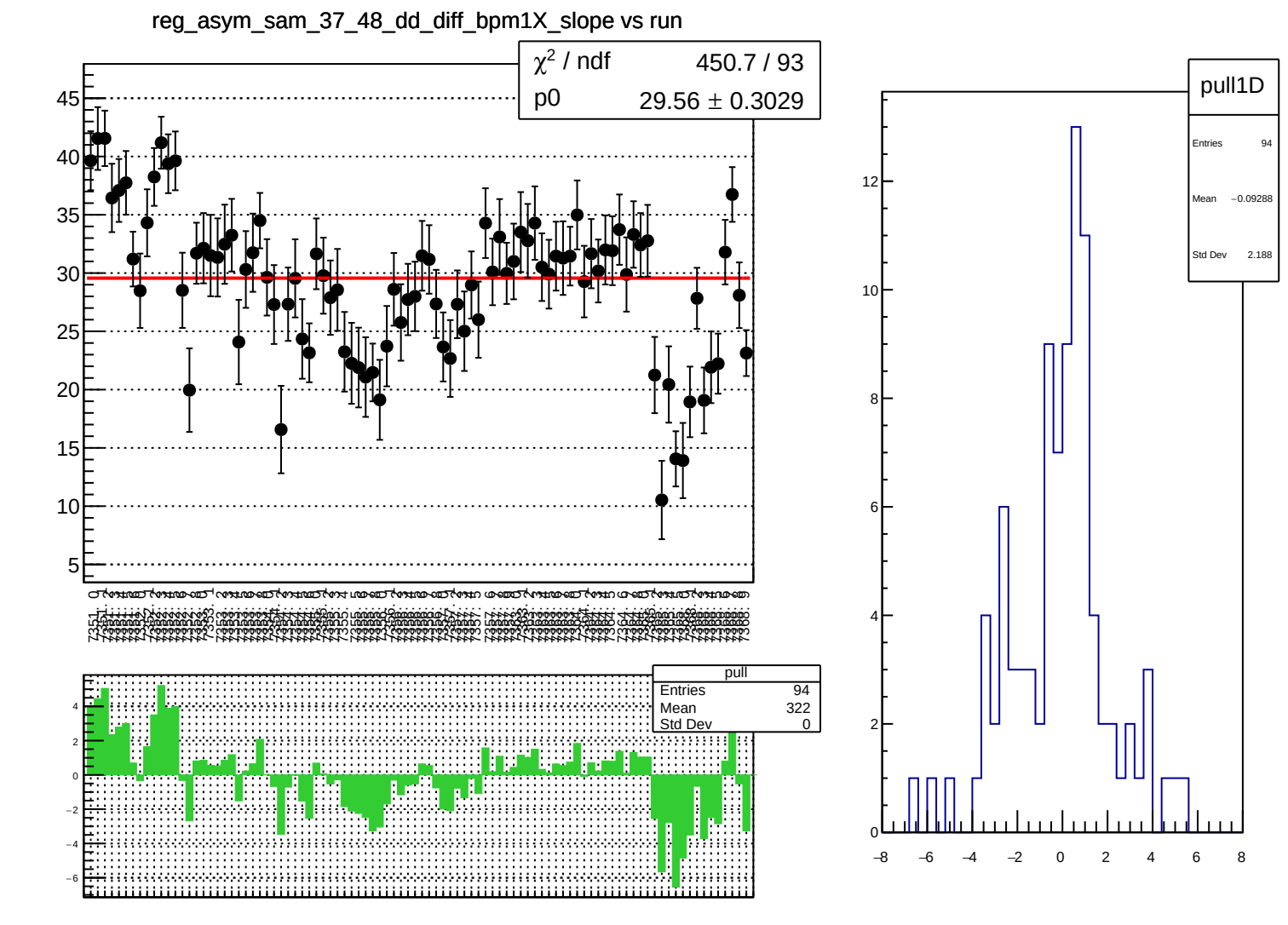

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 613.5 / 93
p0 34.31 ± 0.3117
pull
Entries 94
Mean 268.3
Std Dev 0
pull1D
Entries 94
Mean −0.1297
Std Dev 2.551

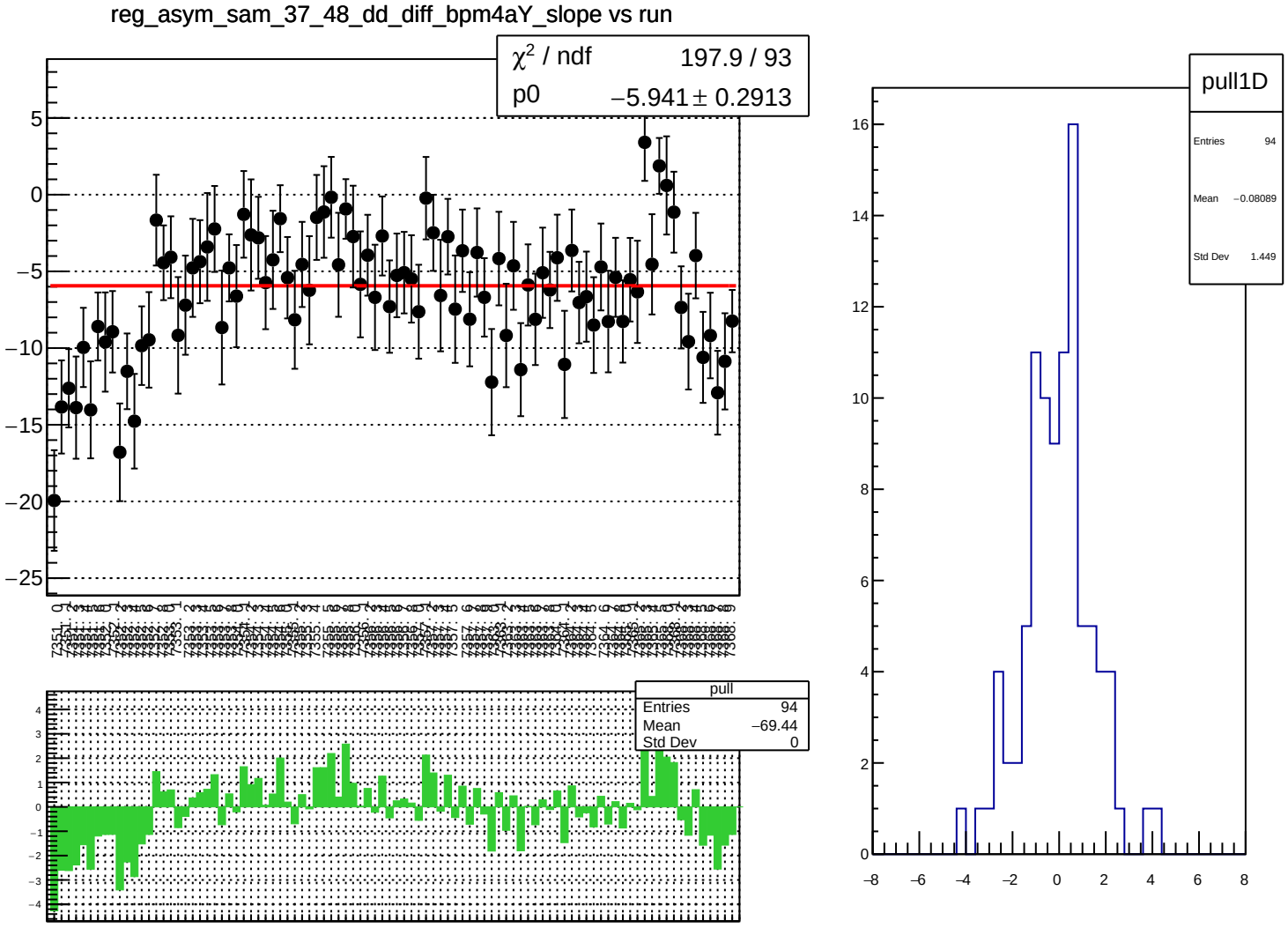

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 216.3 / 93
p0 −9.966 ± 0.2996
pull
Entries 94
Mean −68.73
Std Dev 0
pull1D
Entries 94
Mean −0.09674
Std Dev 1.514

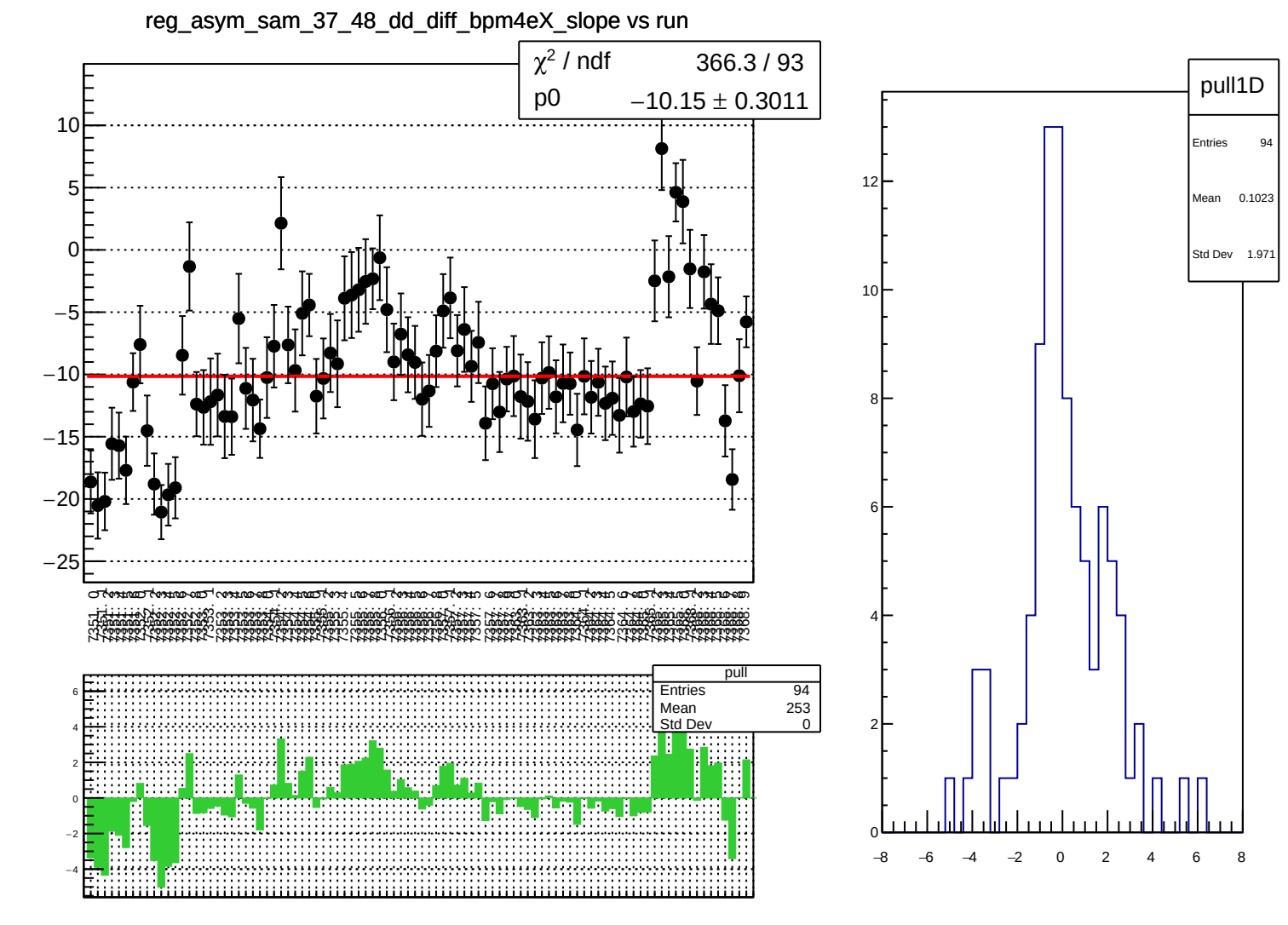

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 401 / 93
p0 12.1 ± 0.3099
pull
Entries 94
Mean 198.7
Std Dev 0
pull1D
Entries 94
Mean 0.1388
Std Dev 2.061

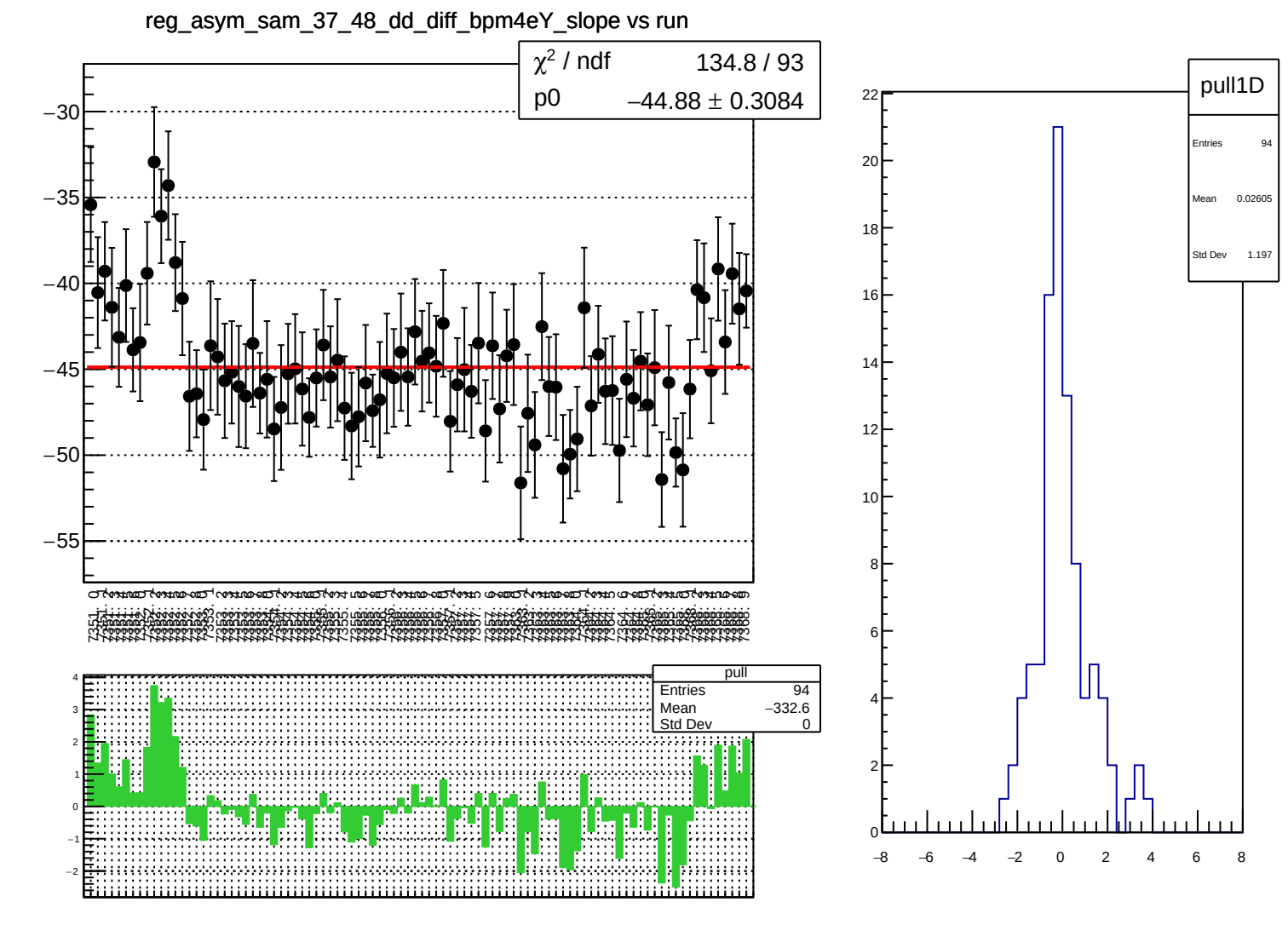

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 171.3 / 93
p0 −17.99 ± 0.3172
pull
Entries 94
Mean −246.5
Std Dev 0
pull1D
Entries 94
Mean 0.04761
Std Dev 1.349

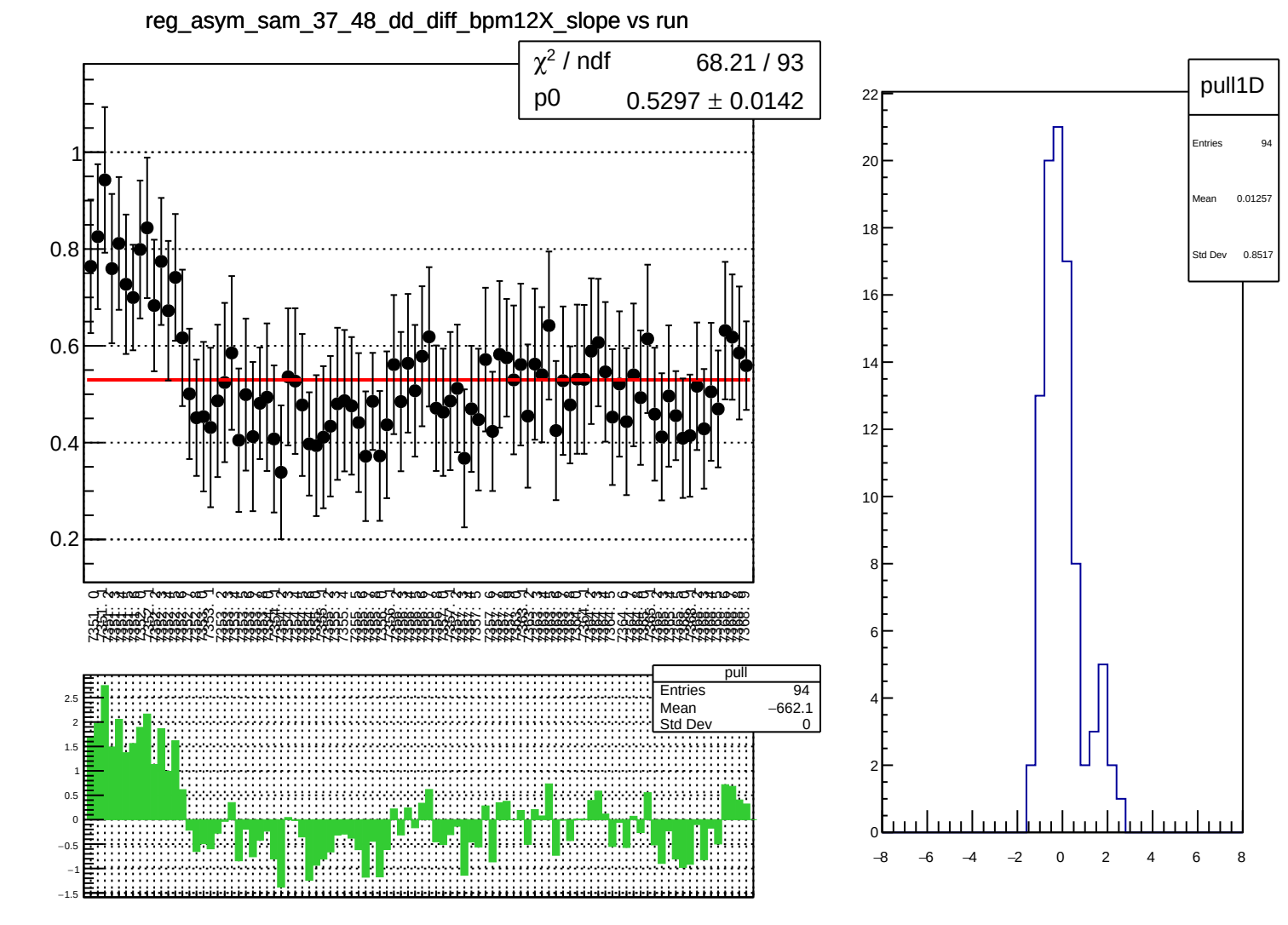

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 54.43 / 93
p0 0.4224 ± 0.01462
pull
Entries 94
Mean −616.2
Std Dev 0
pull1D
Entries 94
Mean 0.01348
Std Dev 0.7608

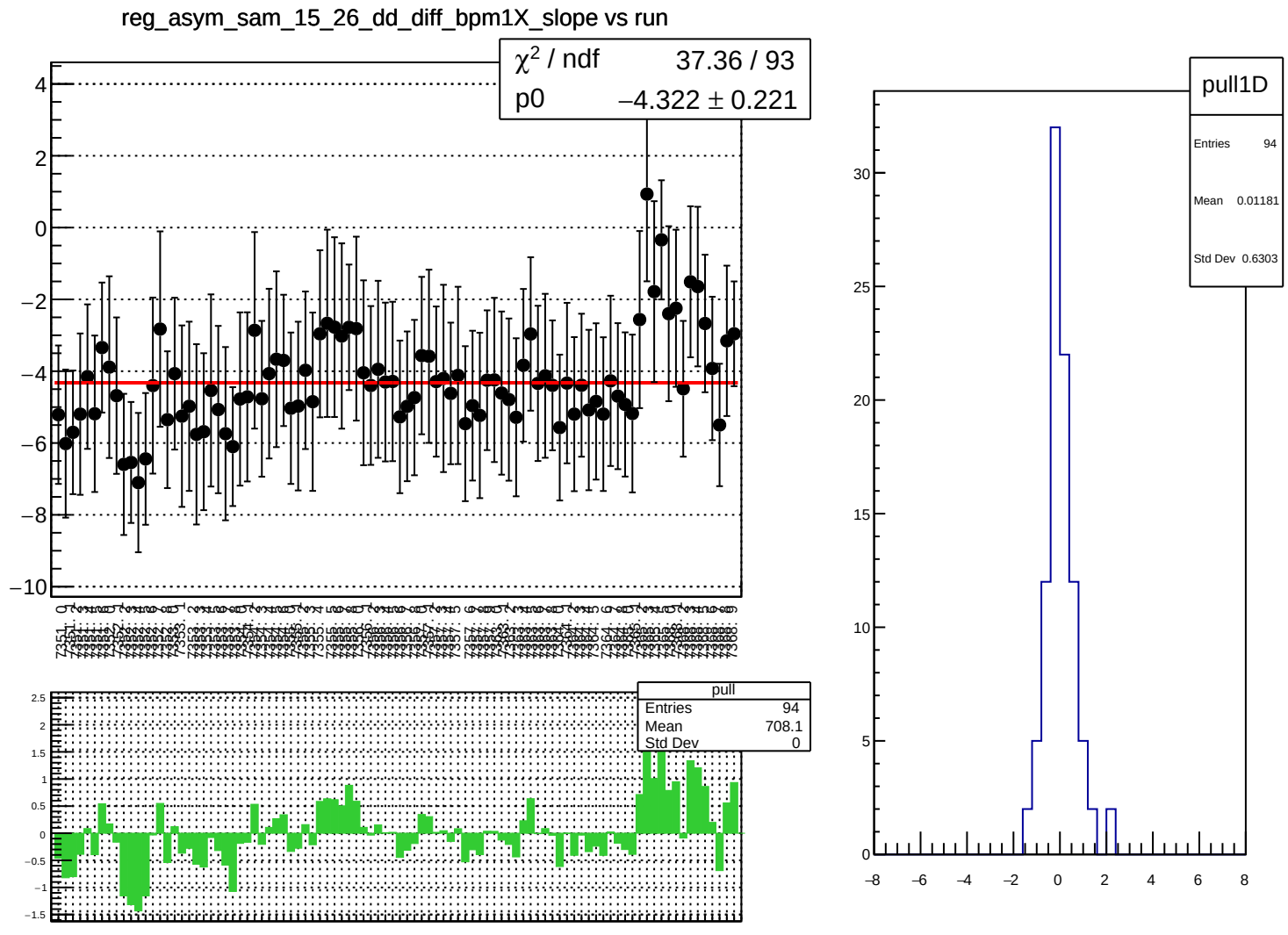

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 450.7 / 93
p0 29.56 ± 0.3029
pull
Entries 94
Mean 322
Std Dev 0
pull1D
Entries 94
Mean −0.09288
Std Dev 2.188

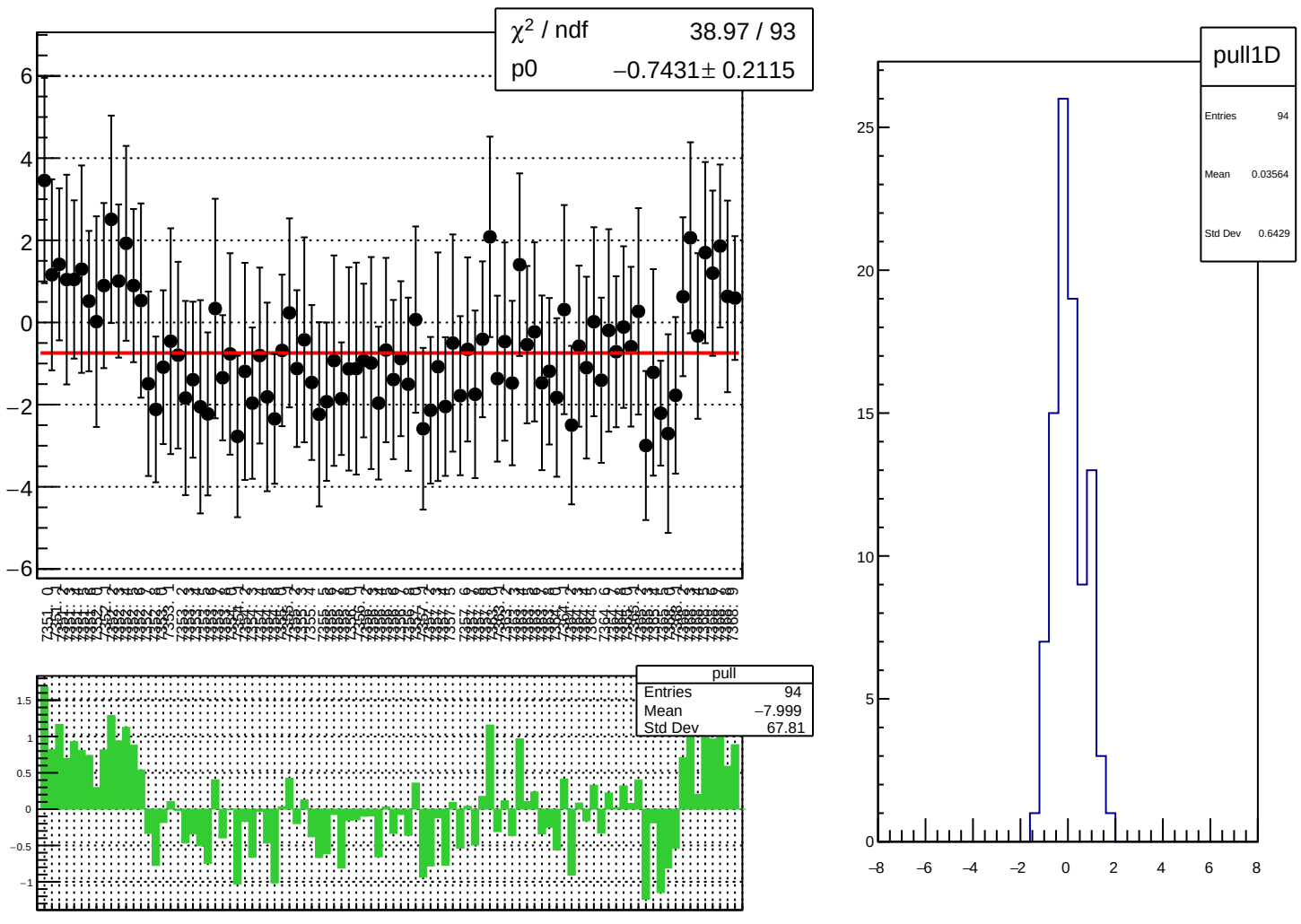

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 197.9 / 93
p0 −5.941 ± 0.2913
pull
Entries 94
Mean −69.44
Std Dev 0
pull1D
Entries 94
Mean −0.08089
Std Dev 1.449

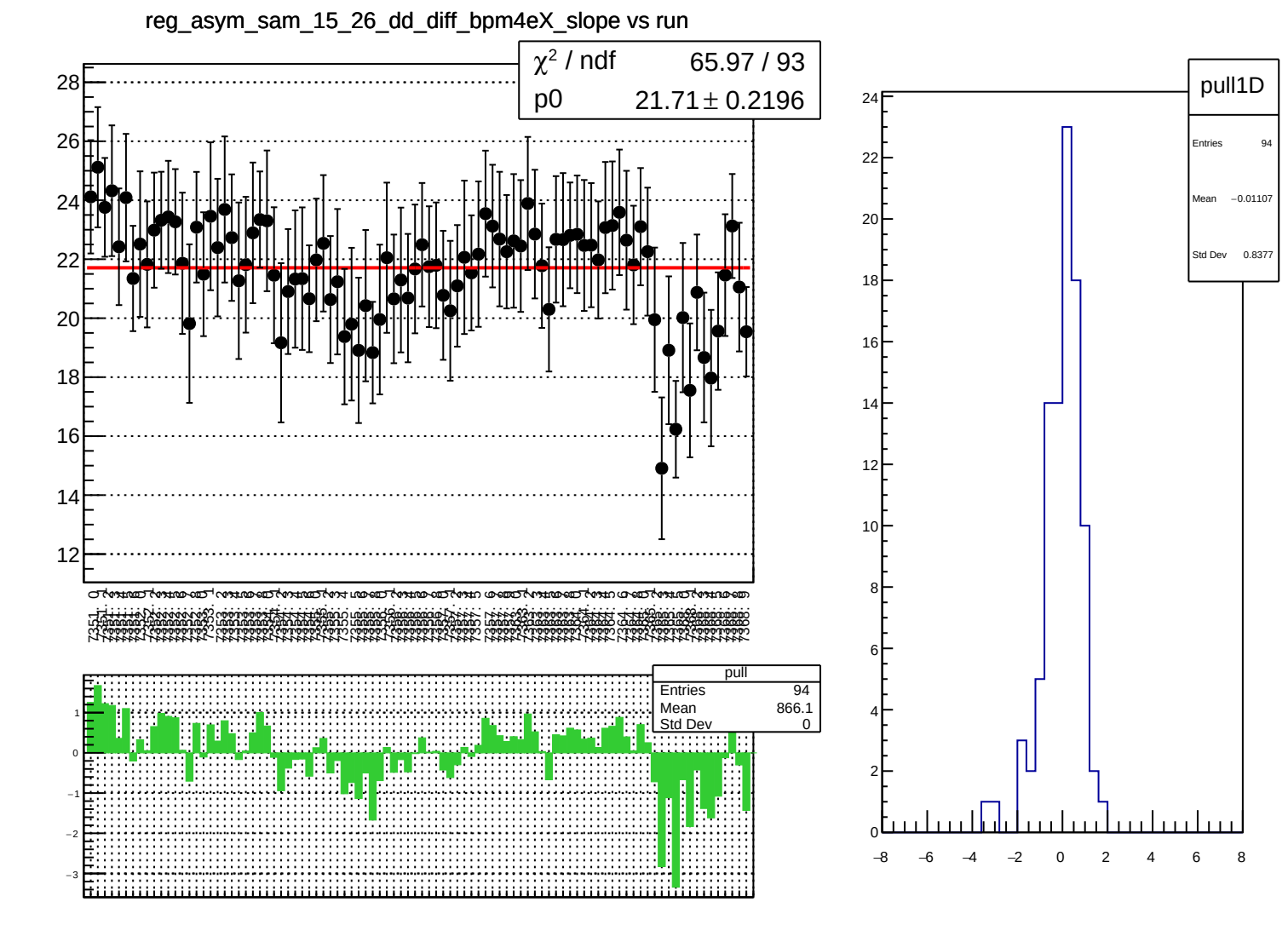

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 366.3 / 93
p0 −10.15 ± 0.3011
pull
Entries 94
Mean 253
Std Dev 0
pull1D
Entries 94
Mean 0.1023
Std Dev 1.971

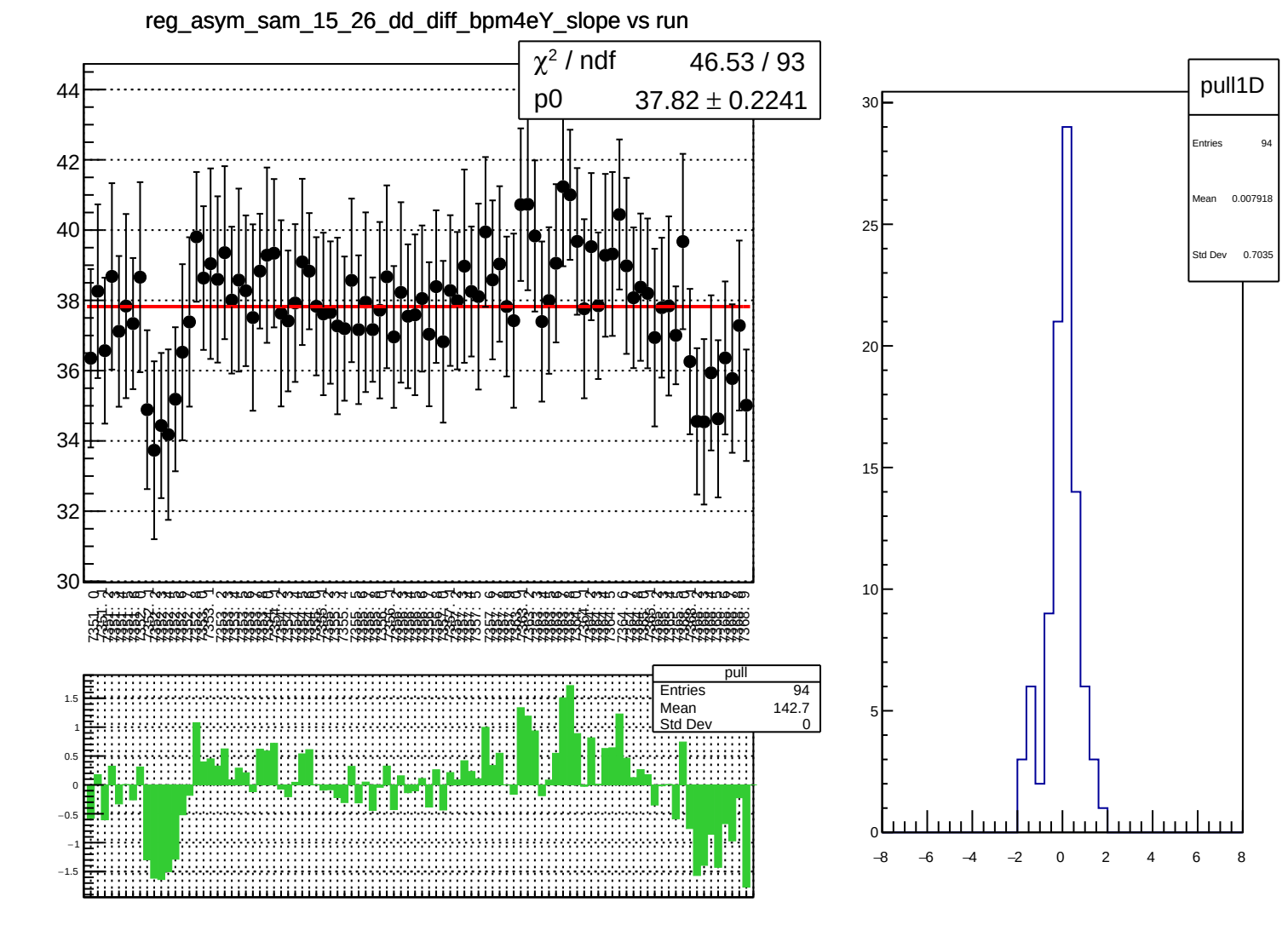

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 134.8 / 93
p0 −44.88 ± 0.3084
pull
Entries 94
Mean −332.6
Std Dev 0
pull1D
Entries 94
Mean 0.02605
Std Dev 1.197

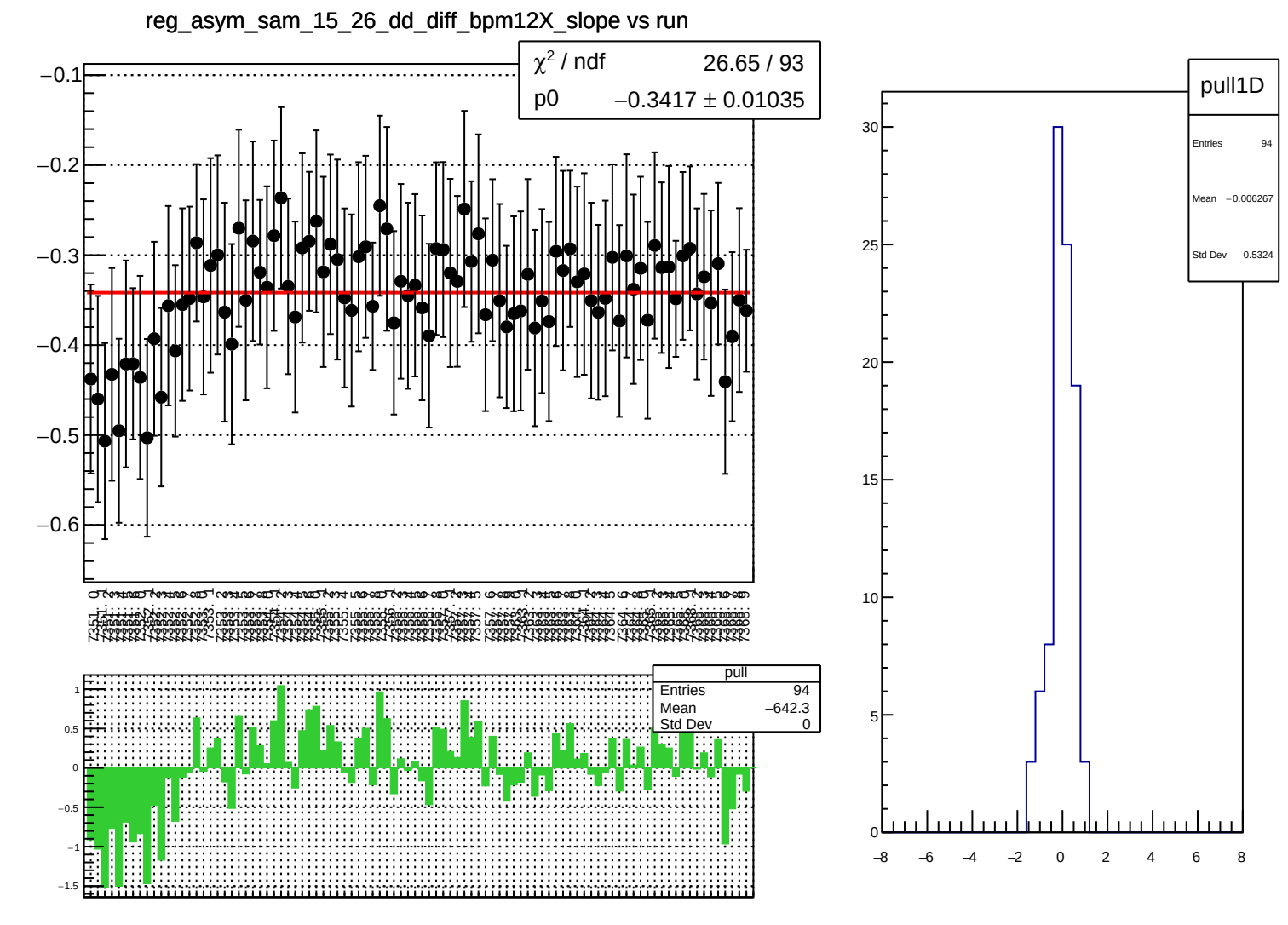

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 68.21 / 93
p0 0.5297 ± 0.0142
pull
Entries 94
Mean −662.1
Std Dev 0
pull1D
Entries 94
Mean 0.01257
Std Dev 0.8517

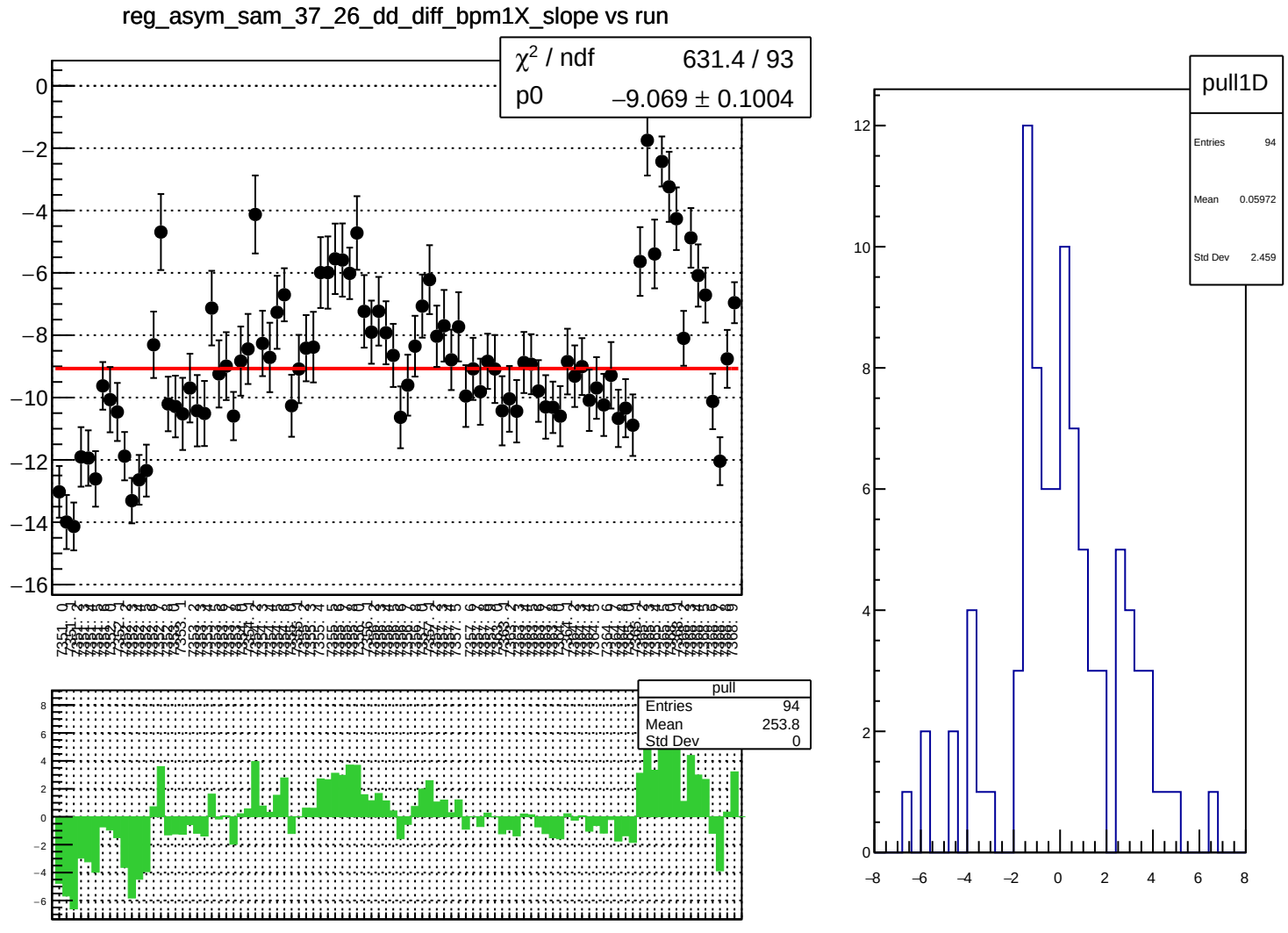

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 37.36 / 93
p0 −4.322 ± 0.221
pull
Entries 94
Mean 708.1
Std Dev 0
pull1D
Entries 94
Mean 0.01181
Std Dev 0.6303

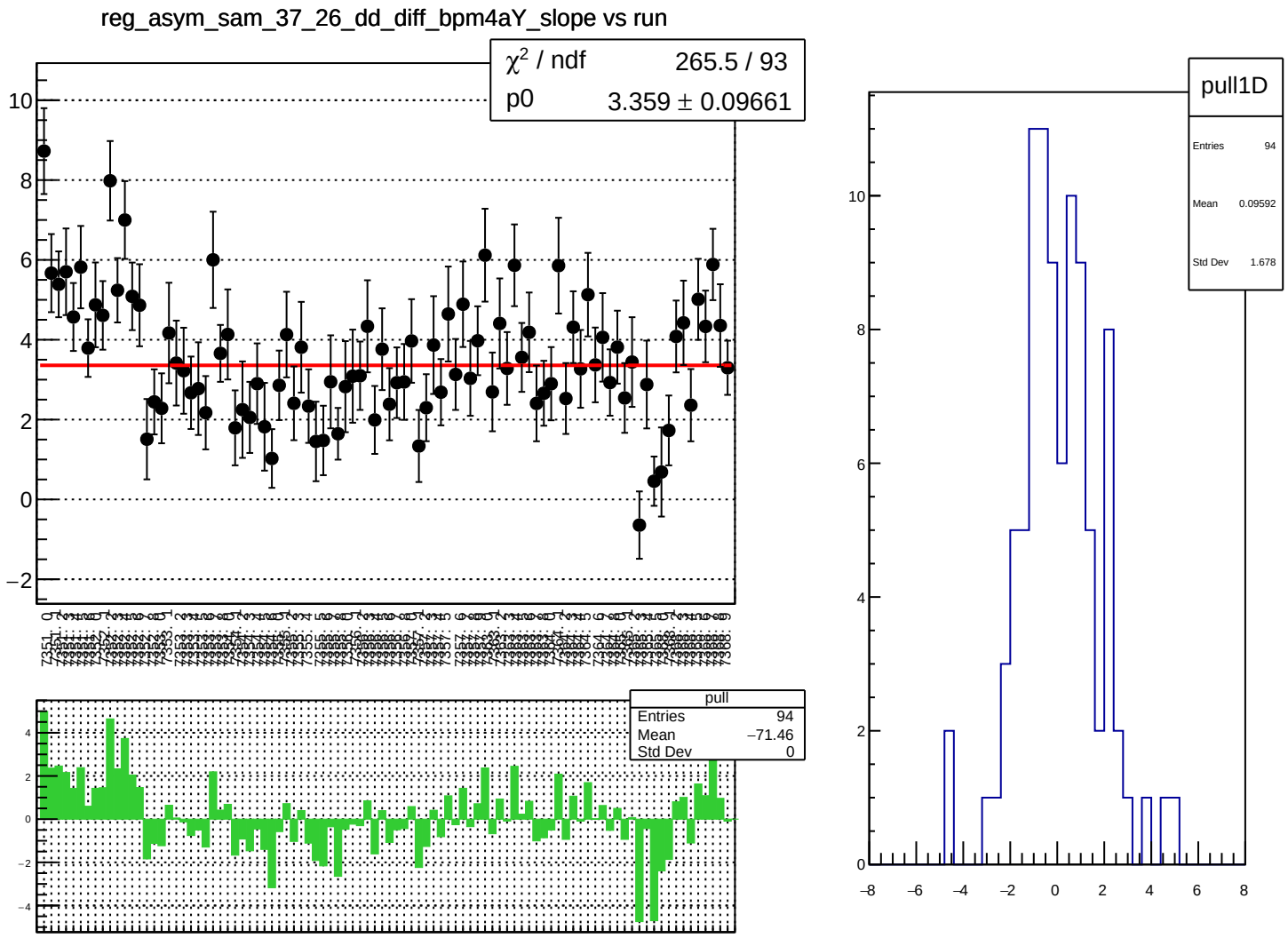

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 38.97 / 93
p0 −0.7431± 0.2115
pull
Entries 94
Mean −7.999
Std Dev 67.81
pull1D
Entries 94
Mean 0.03564
Std Dev 0.6429

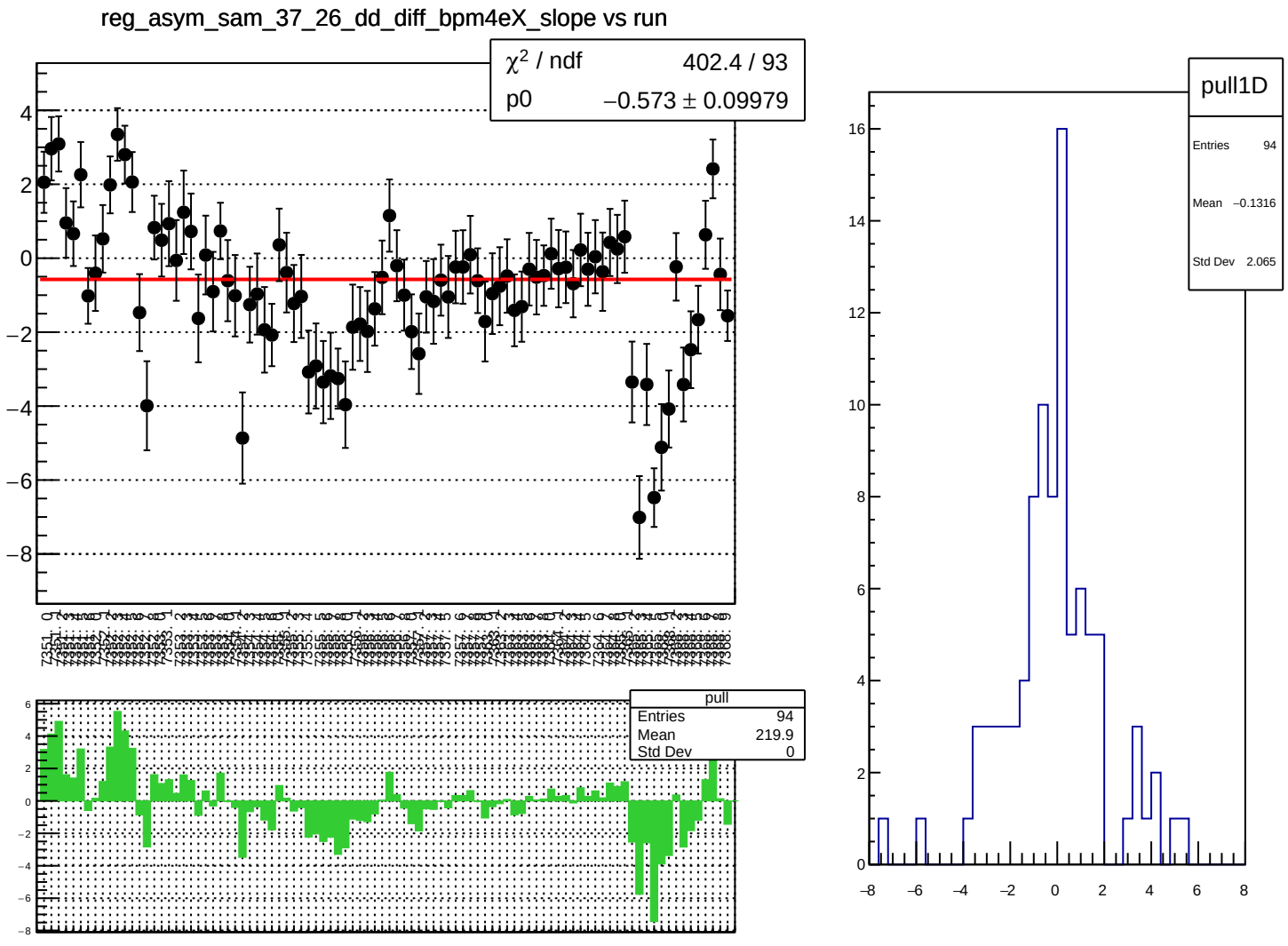

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 65.97 / 93
p0 21.71 ± 0.2196
pull
Entries 94
Mean 866.1
Std Dev 0
pull1D
Entries 94
Mean −0.01107
Std Dev 0.8377

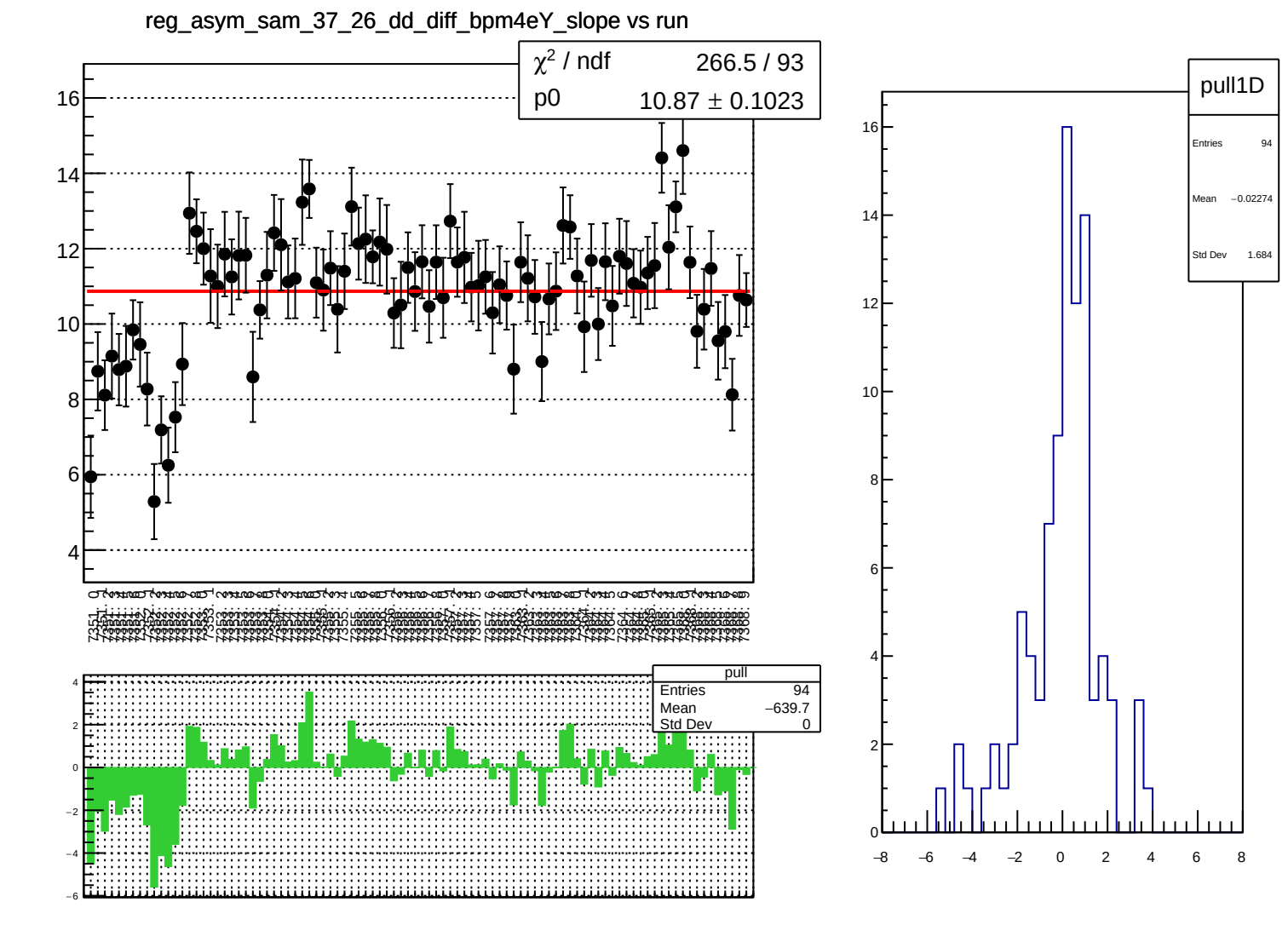

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 46.53 / 93
p0 37.82 ± 0.2241
pull
Entries 94
Mean 142.7
Std Dev 0
pull1D
Entries 94
Mean 0.007918
Std Dev 0.7035

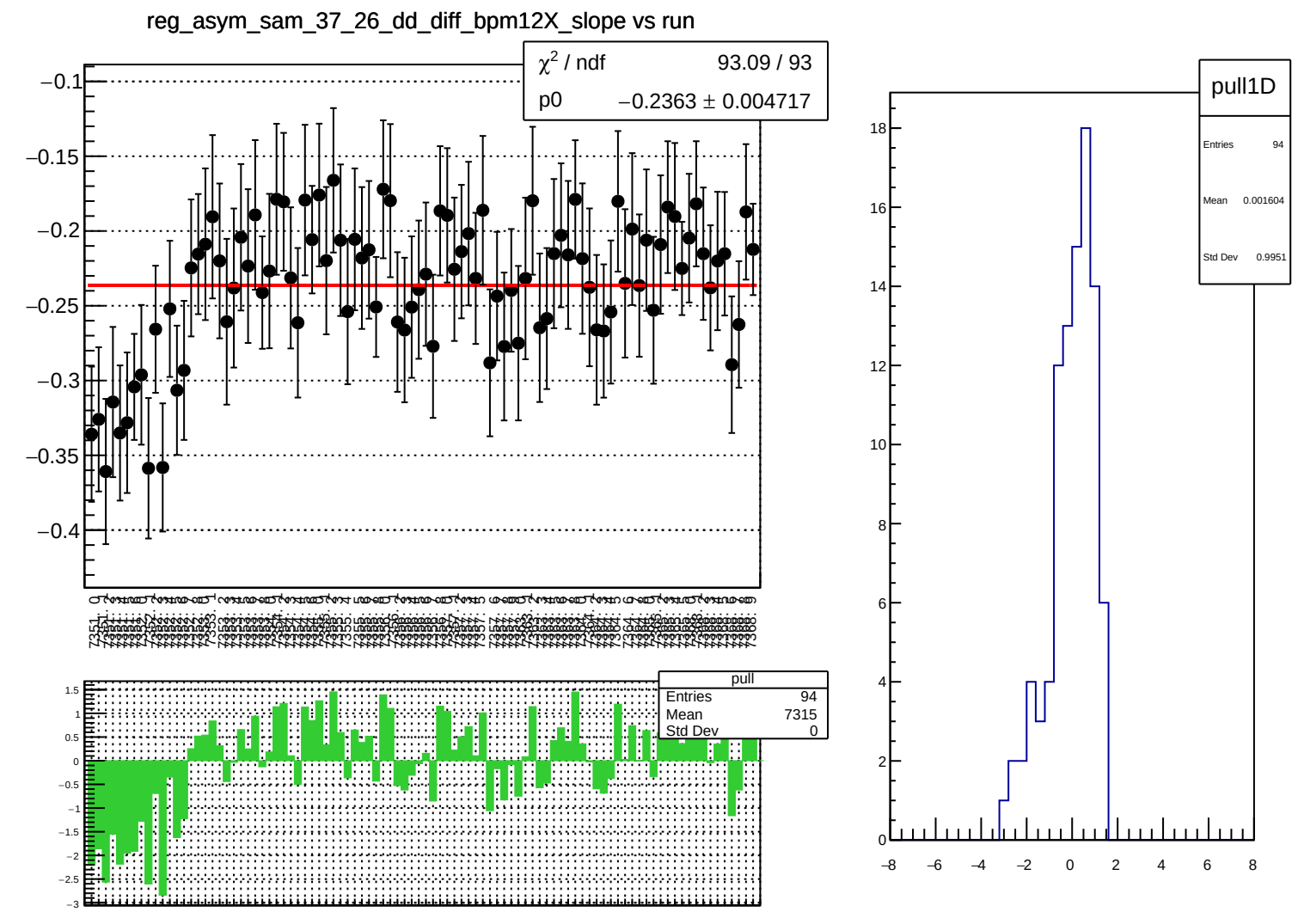

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 26.65 / 93
p0 −0.3417 ± 0.01035
pull
Entries 94
Mean −642.3
Std Dev 0
pull1D
Entries 94
Mean −0.006267
Std Dev 0.5324

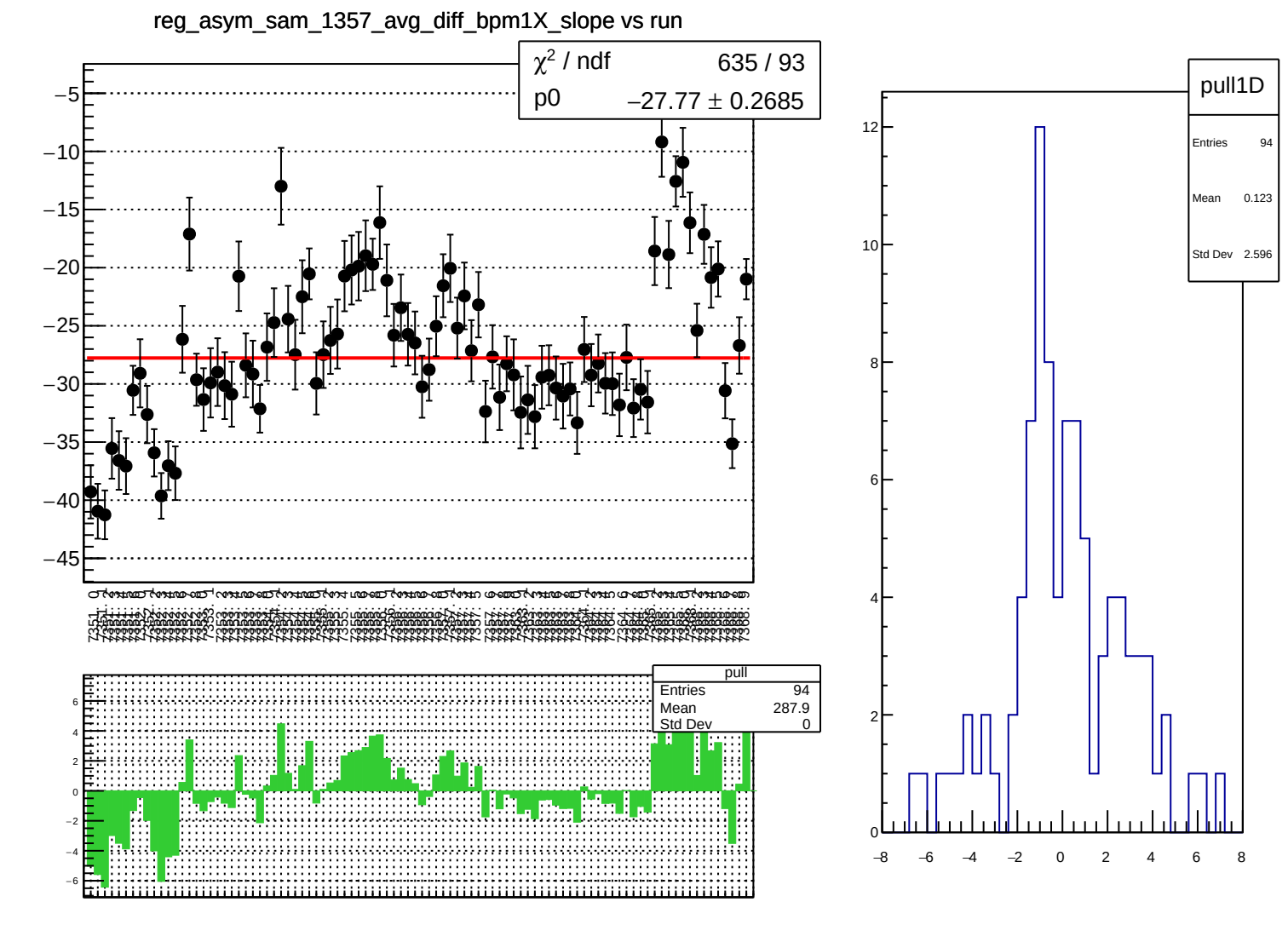

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 631.4 / 93
p0 −9.069 ± 0.1004
pull
Entries 94
Mean 253.8
Std Dev 0
pull1D
Entries 94
Mean 0.05972
Std Dev 2.459

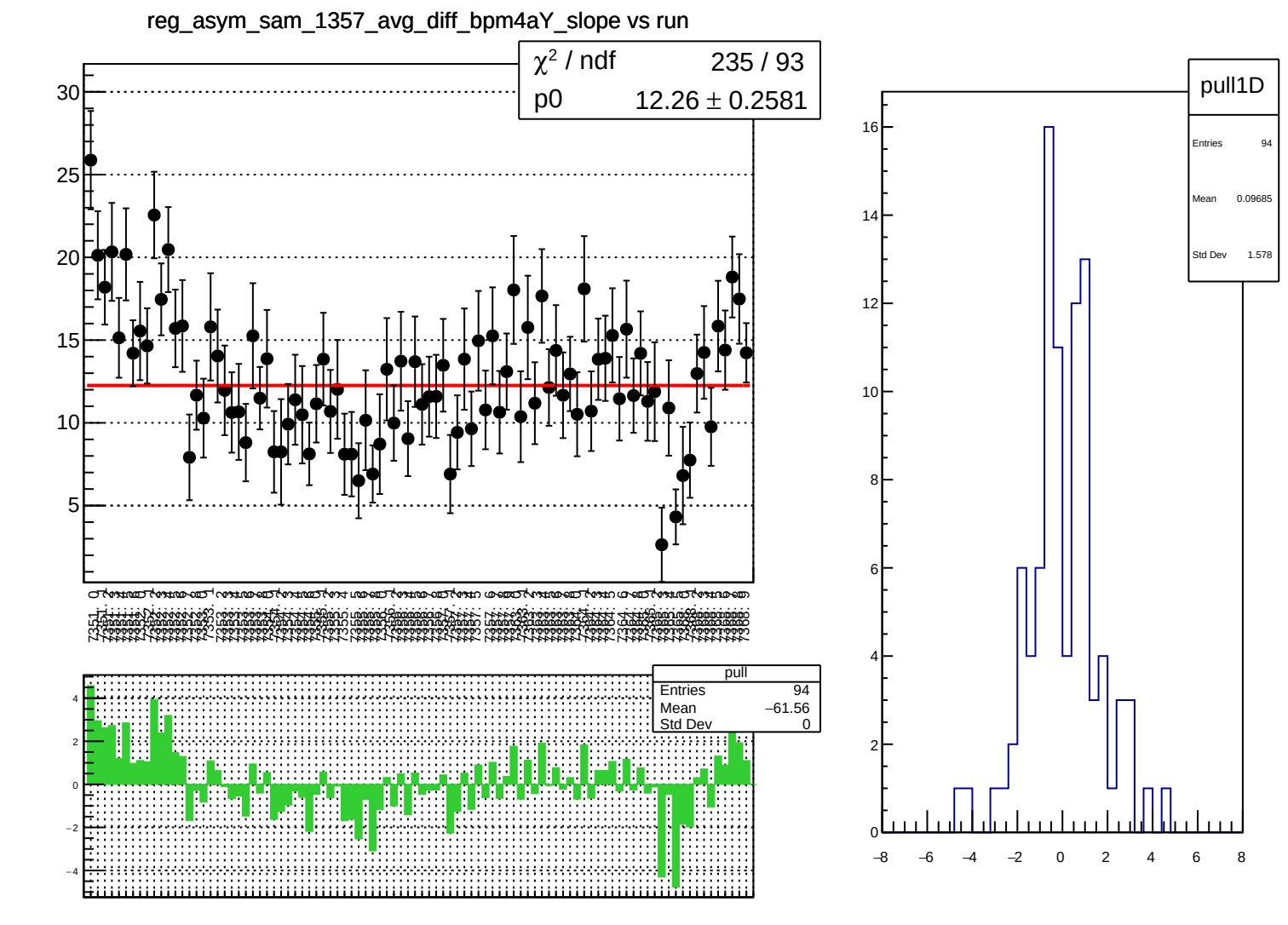

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 265.5 / 93
p0 3.359 ± 0.09661
pull
Entries 94
Mean −71.46
Std Dev 0
pull1D
Entries 94
Mean 0.09592
Std Dev 1.678

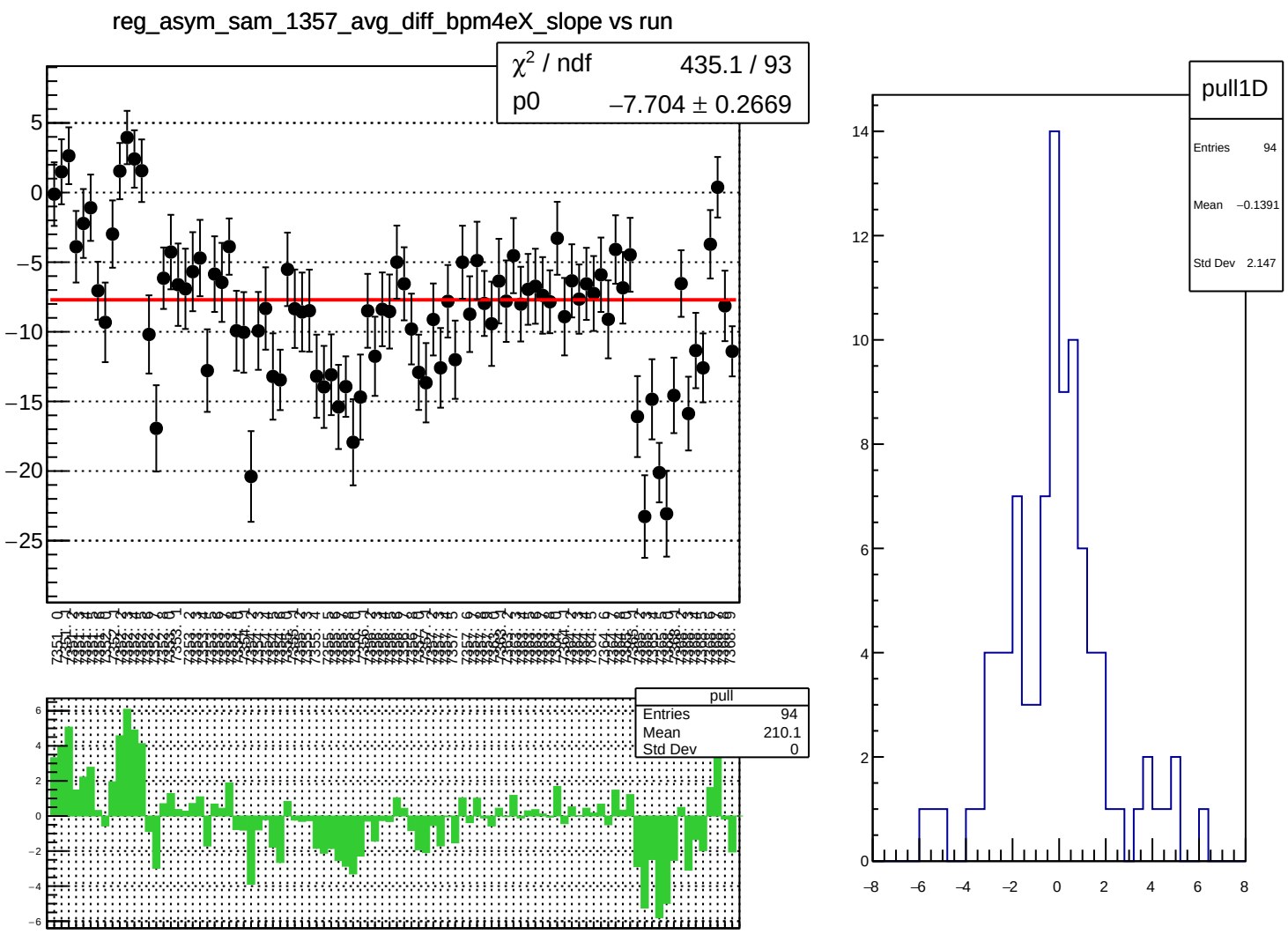

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 402.4 / 93
p0 −0.573 ± 0.09979
pull
Entries 94
Mean 219.9
Std Dev 0
pull1D
Entries 94
Mean −0.1316
Std Dev 2.065

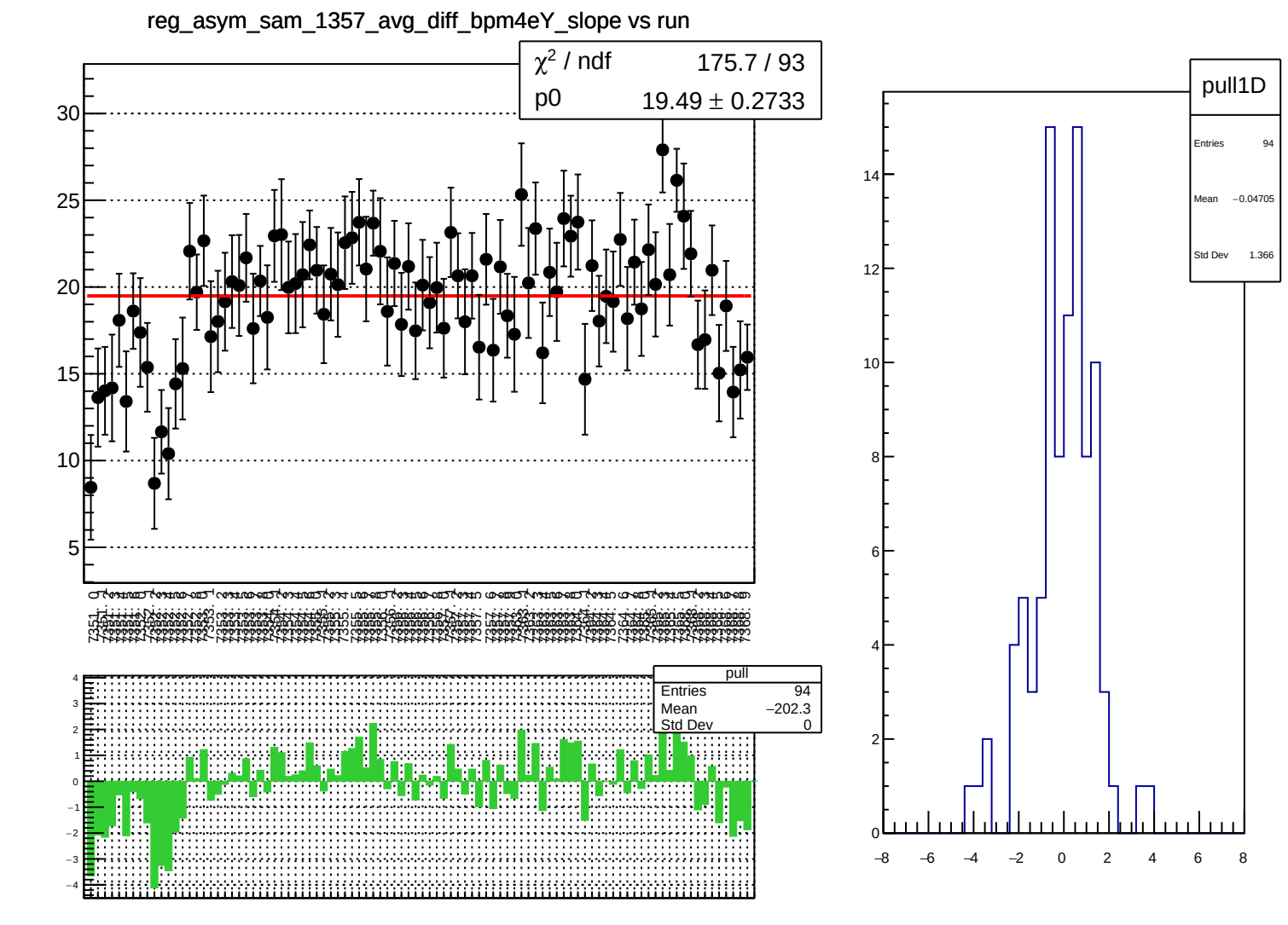

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 266.5 / 93
p0 10.87 ± 0.1023
pull
Entries 94
Mean −639.7
Std Dev 0
pull1D
Entries 94
Mean −0.02274
Std Dev 1.684

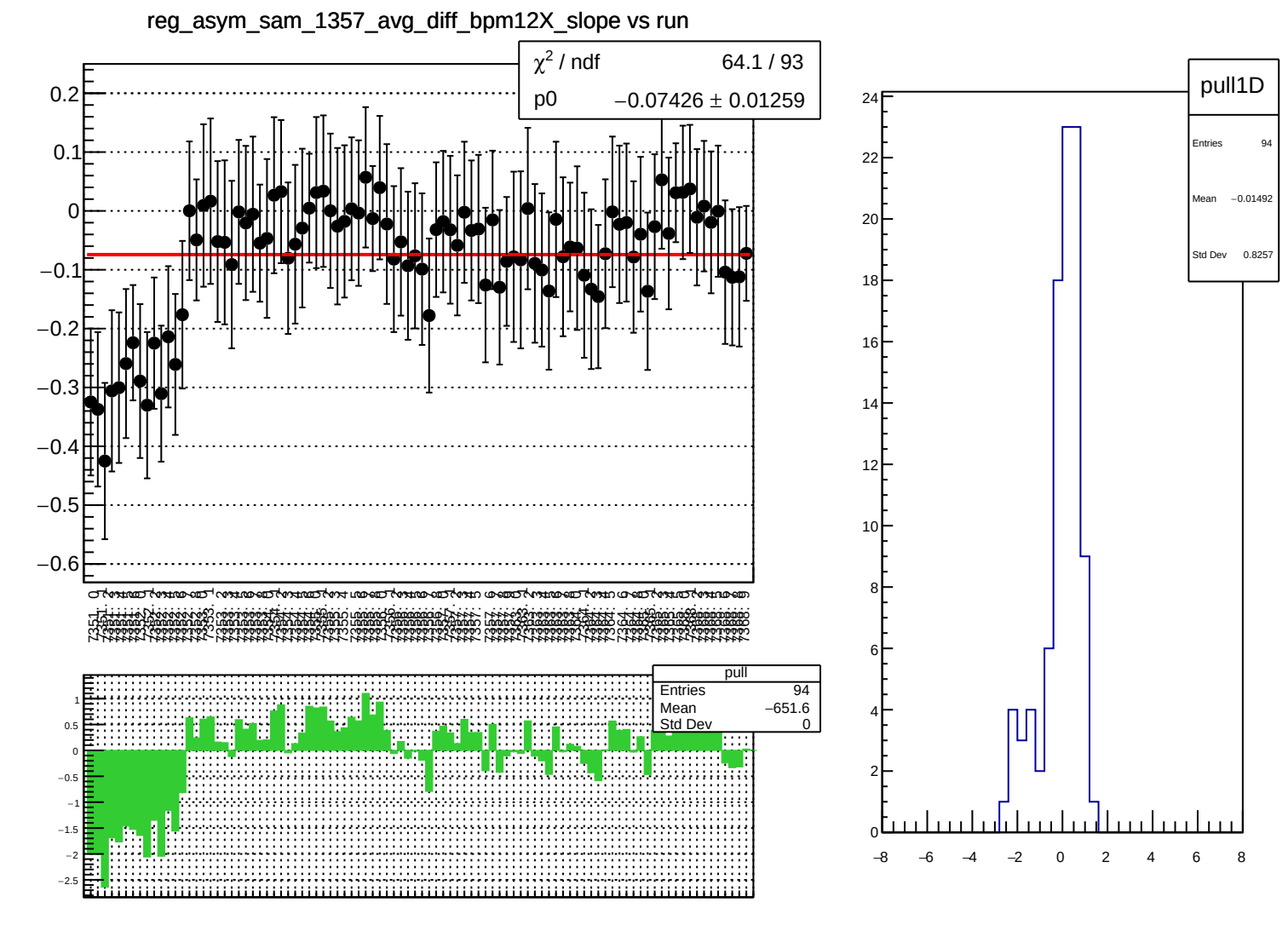

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 93.09 / 93
p0 −0.2363 ± 0.004717
pull
Entries 94
Mean 7315
Std Dev 0
pull1D
Entries 94
Mean 0.001604
Std Dev 0.9951

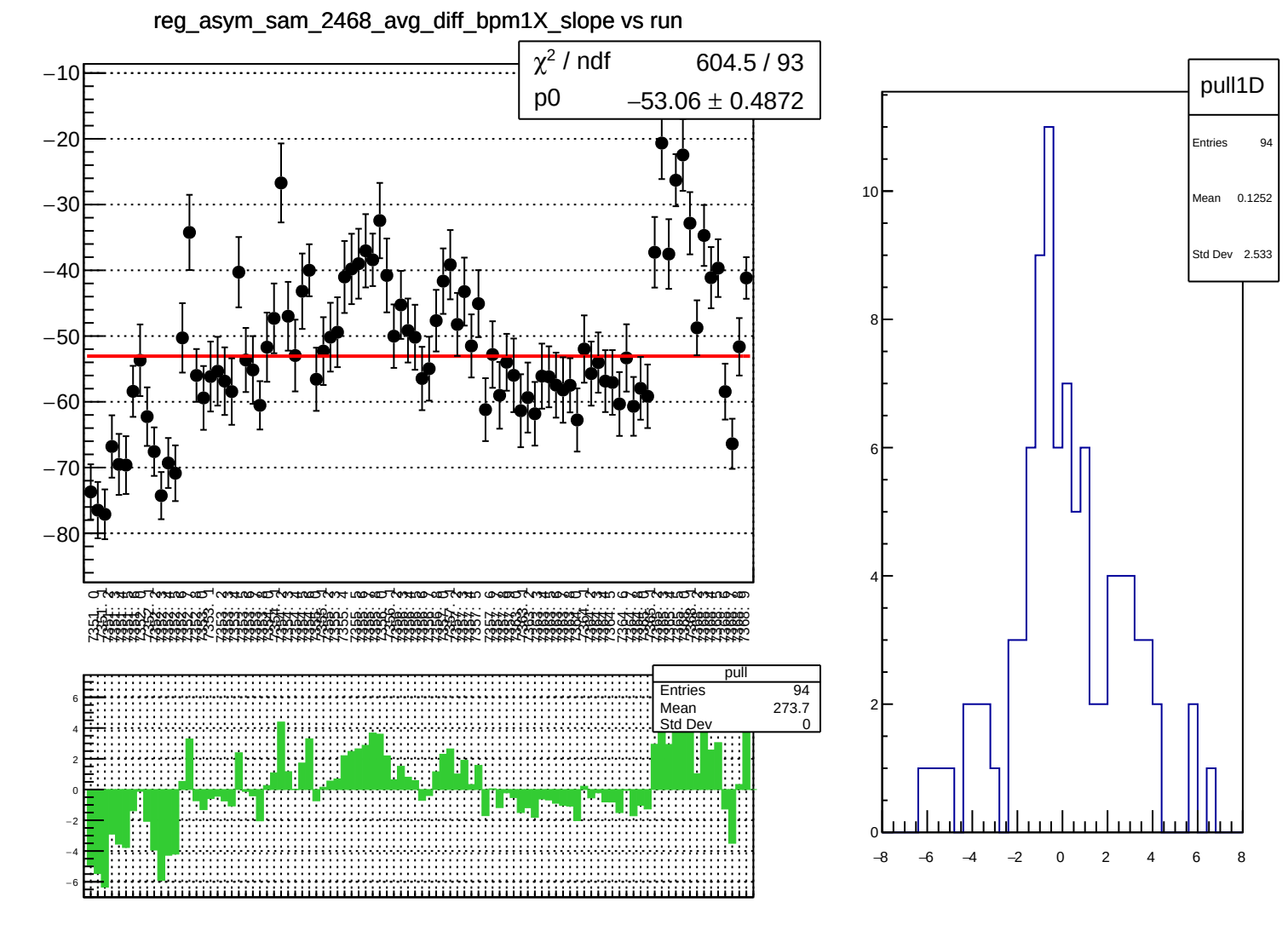

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 635 / 93
p0 −27.77 ± 0.2685
pull
Entries 94
Mean 287.9
Std Dev 0
pull1D
Entries 94
Mean 0.123
Std Dev 2.596

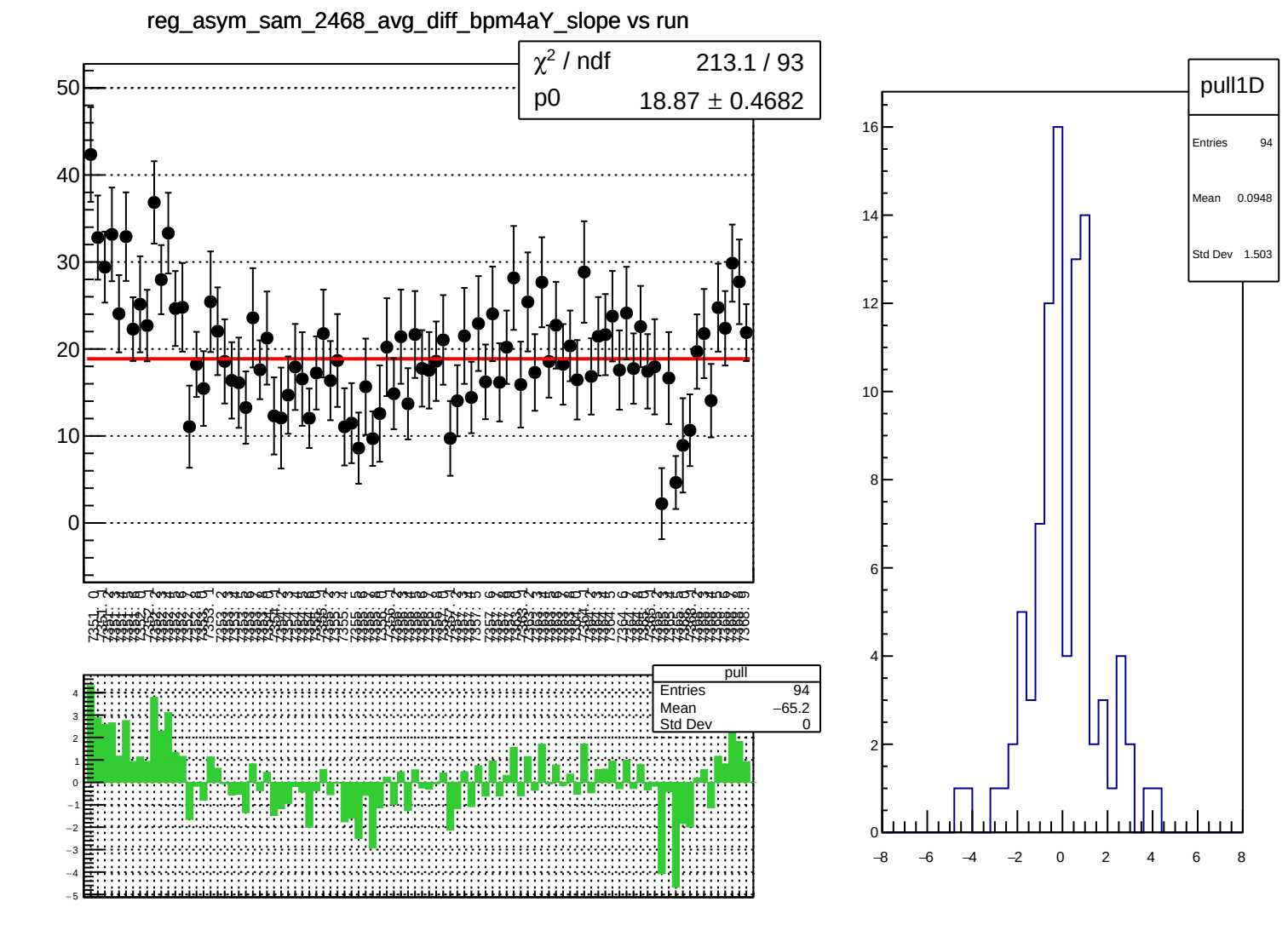

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 235 / 93
p0 12.26 ± 0.2581
pull
Entries 94
Mean −61.56
Std Dev 0
pull1D
Entries 94
Mean 0.09685
Std Dev 1.578

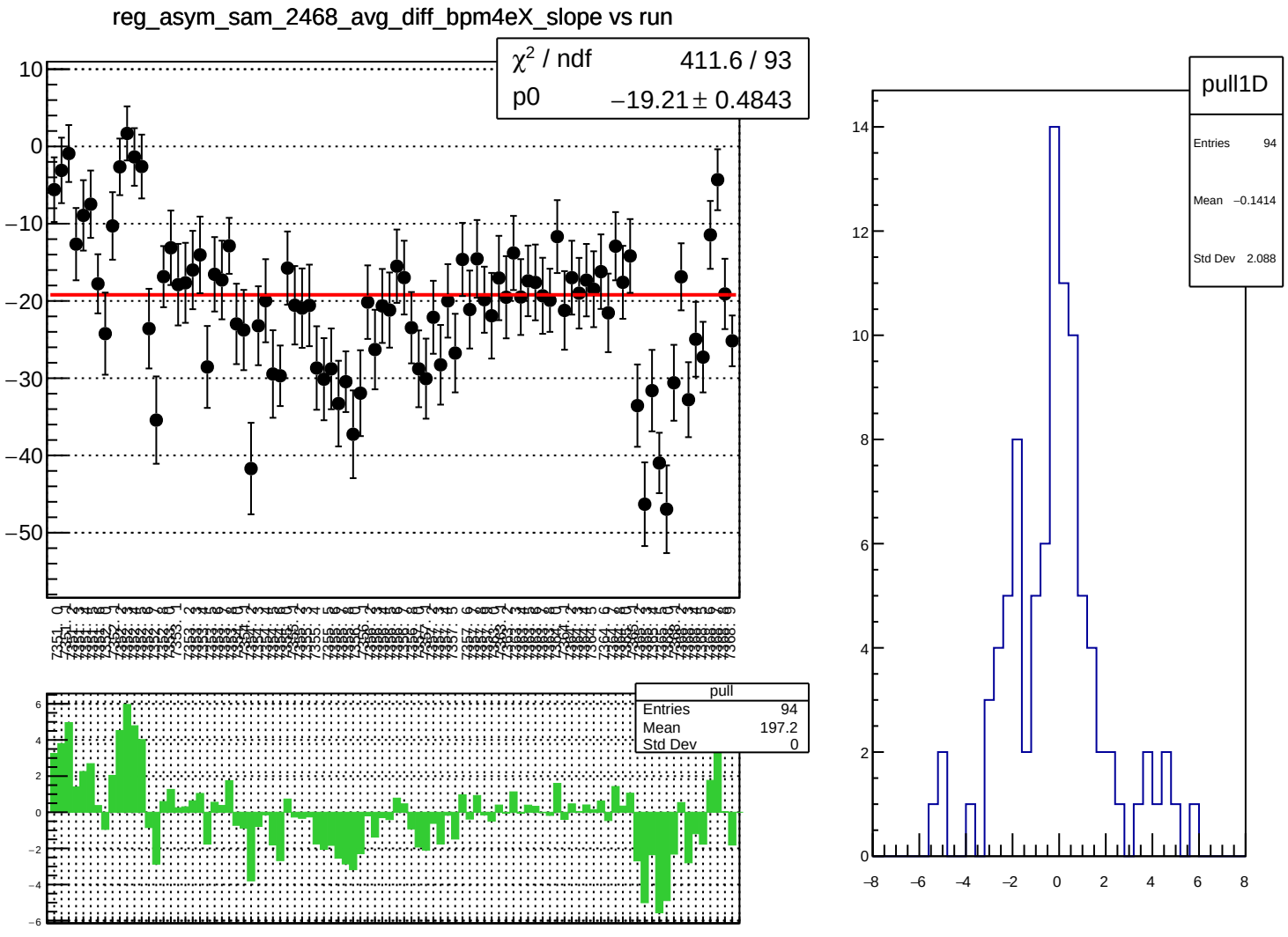

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 435.1 / 93
p0 −7.704 ± 0.2669
pull
Entries 94
Mean 210.1
Std Dev 0
pull1D
Entries 94
Mean −0.1391
Std Dev 2.147

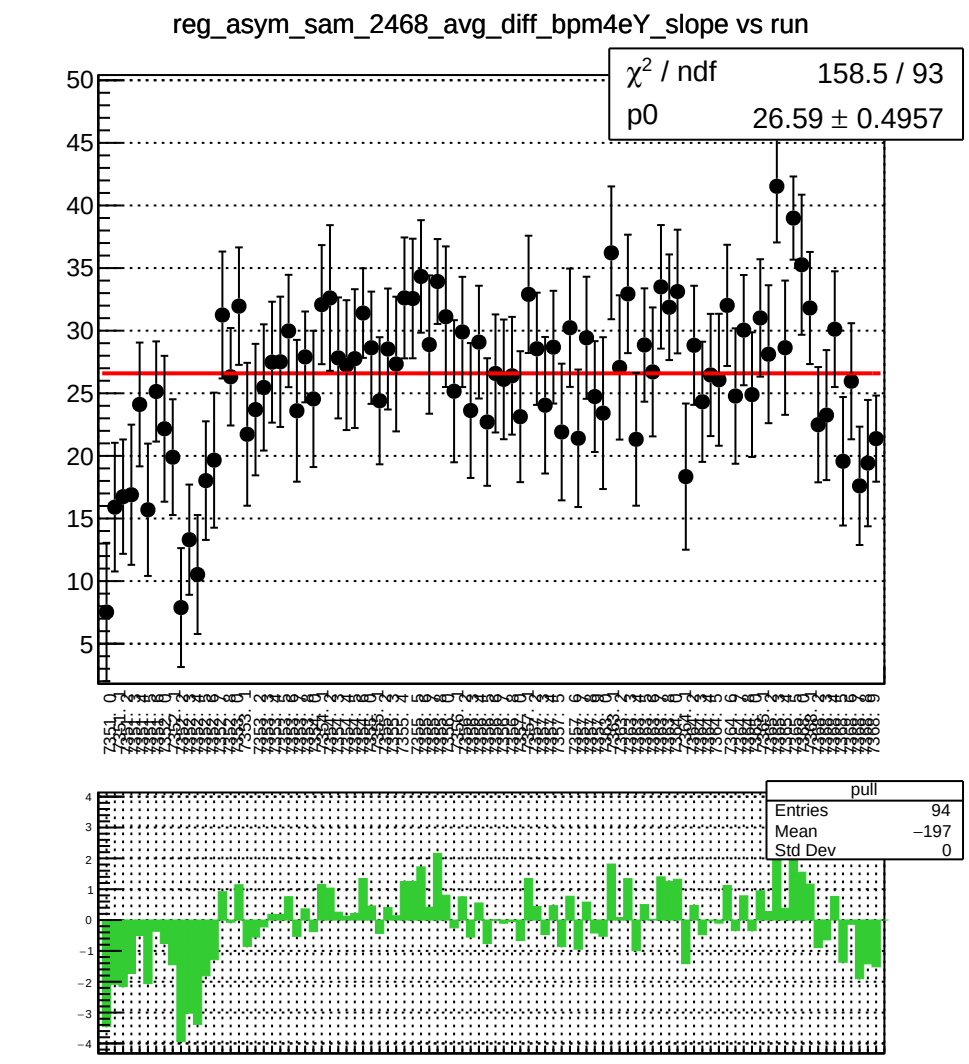

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 175.7 / 93
p0 19.49 ± 0.2733
pull
Entries 94
Mean −202.3
Std Dev 0
pull1D
Entries 94
Mean −0.04705
Std Dev 1.366

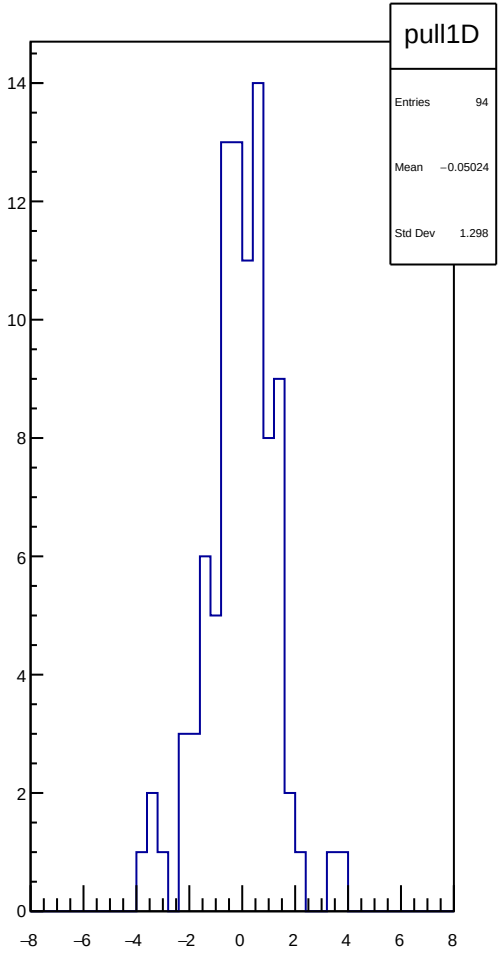

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 64.1 / 93
p0 −0.07426 ± 0.01259
pull
Entries 94
Mean −651.6
Std Dev 0
pull1D
Entries 94
Mean −0.01492
Std Dev 0.8257

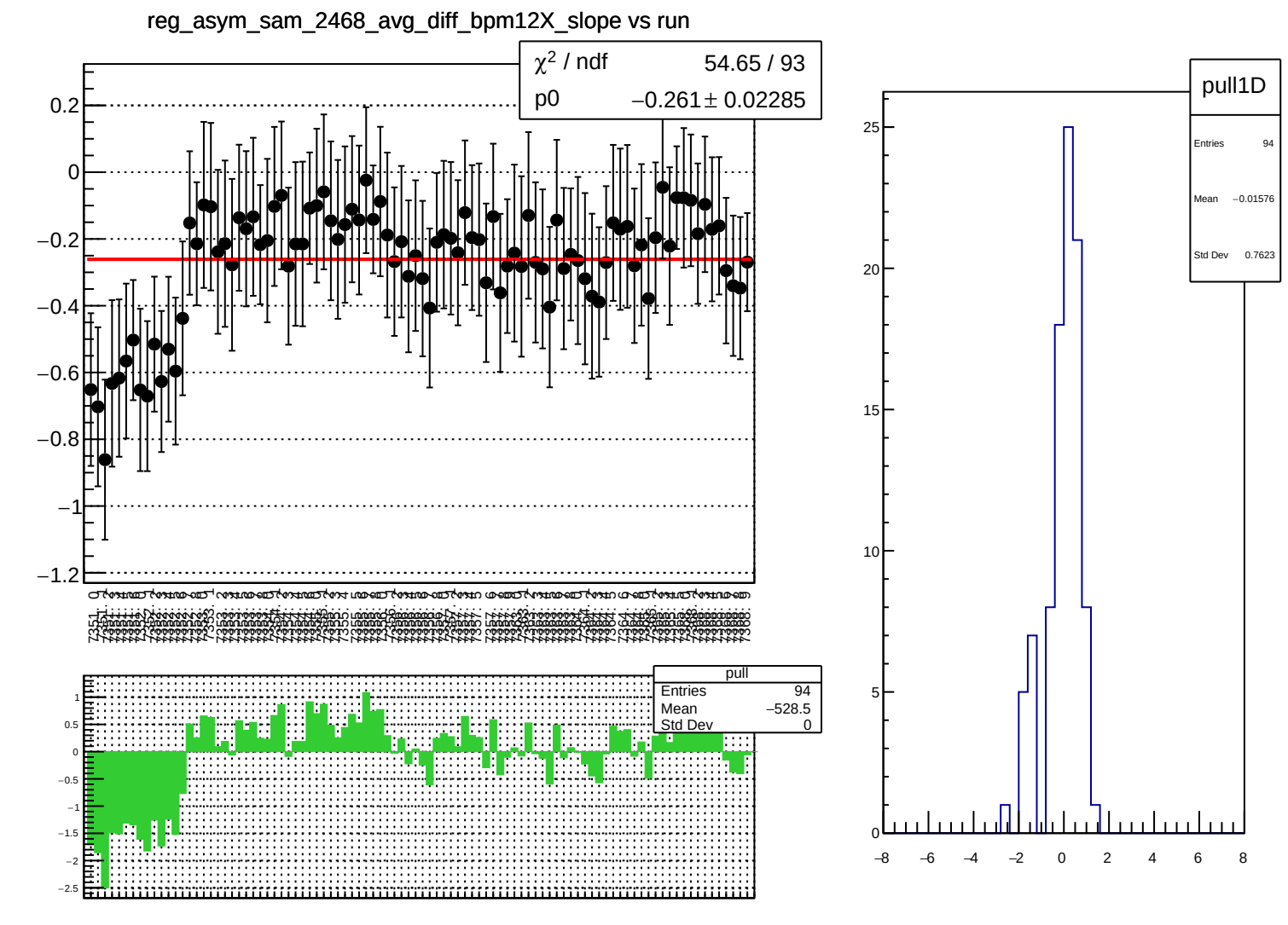

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 604.5 / 93
p0 −53.06 ± 0.4872
pull
Entries 94
Mean 273.7
Std Dev 0
pull1D
Entries 94
Mean 0.1252
Std Dev 2.533

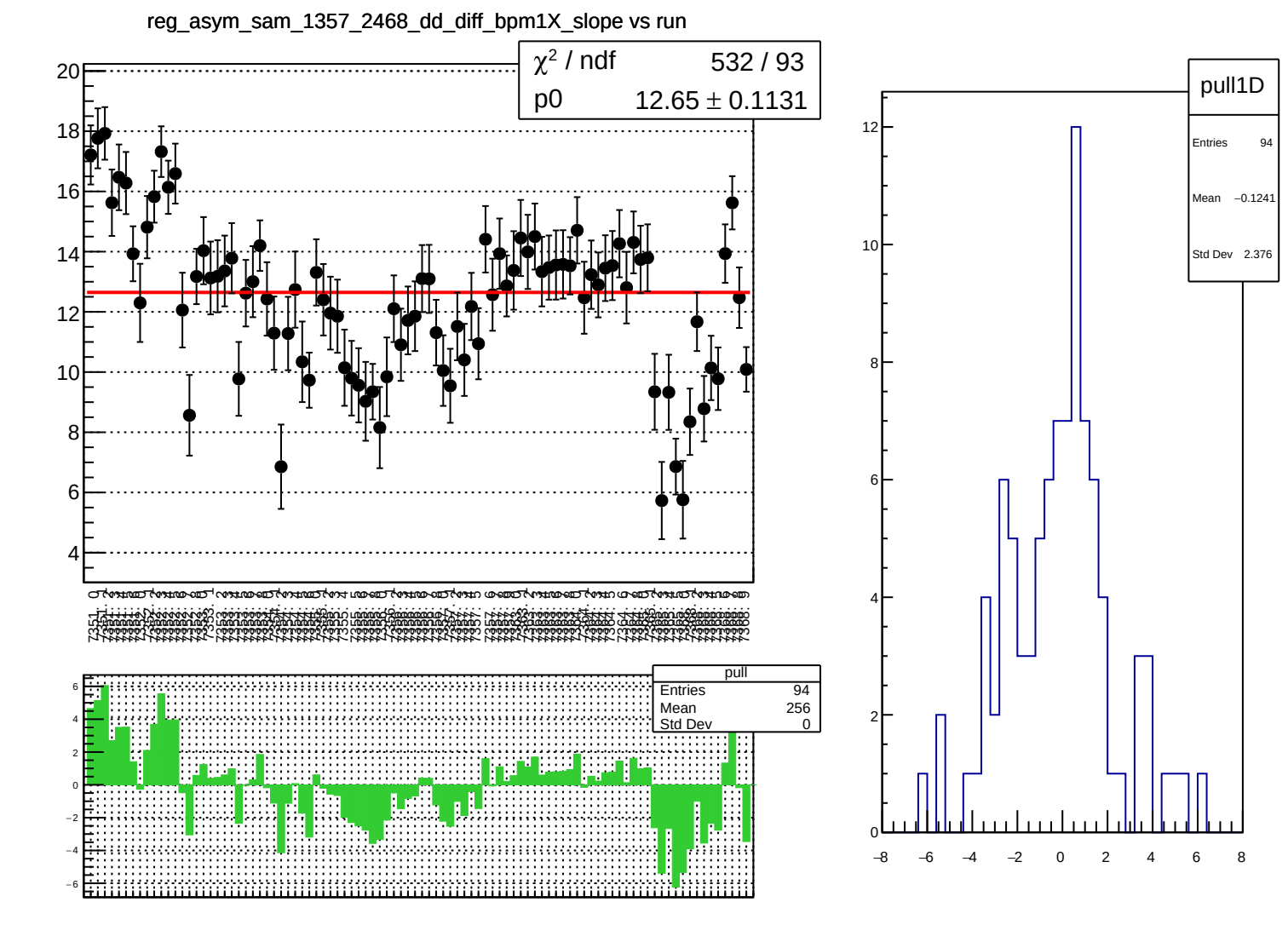

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 213.1 / 93
p0 18.87 ± 0.4682
pull
Entries 94
Mean −65.2
Std Dev 0
pull1D
Entries 94
Mean 0.0948
Std Dev 1.503

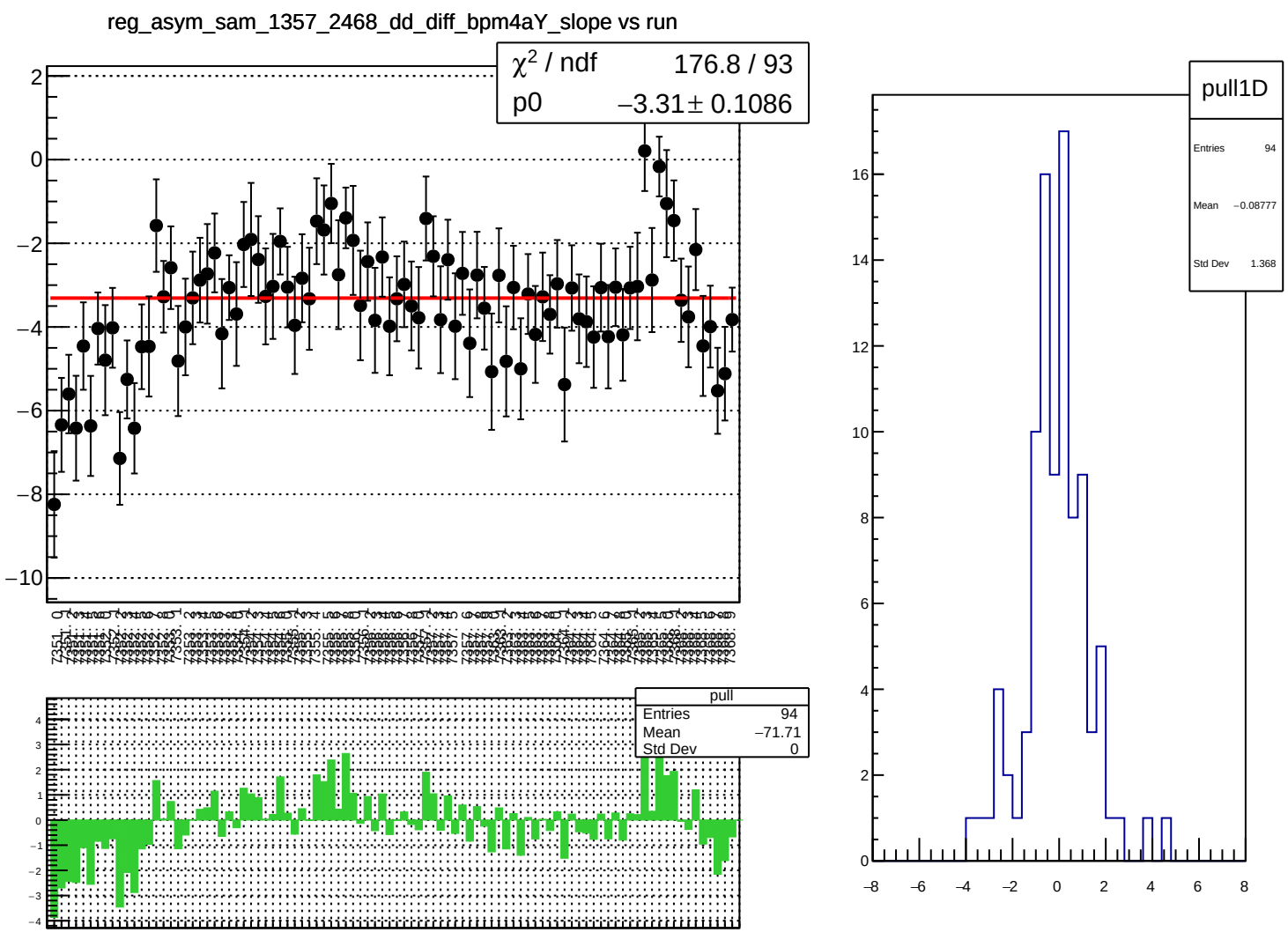

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 411.6 / 93
p0 −19.21 ± 0.4843
pull
Entries 94
Mean 197.2
Std Dev 0
pull1D
Entries 94
Mean −0.1414
Std Dev 2.088

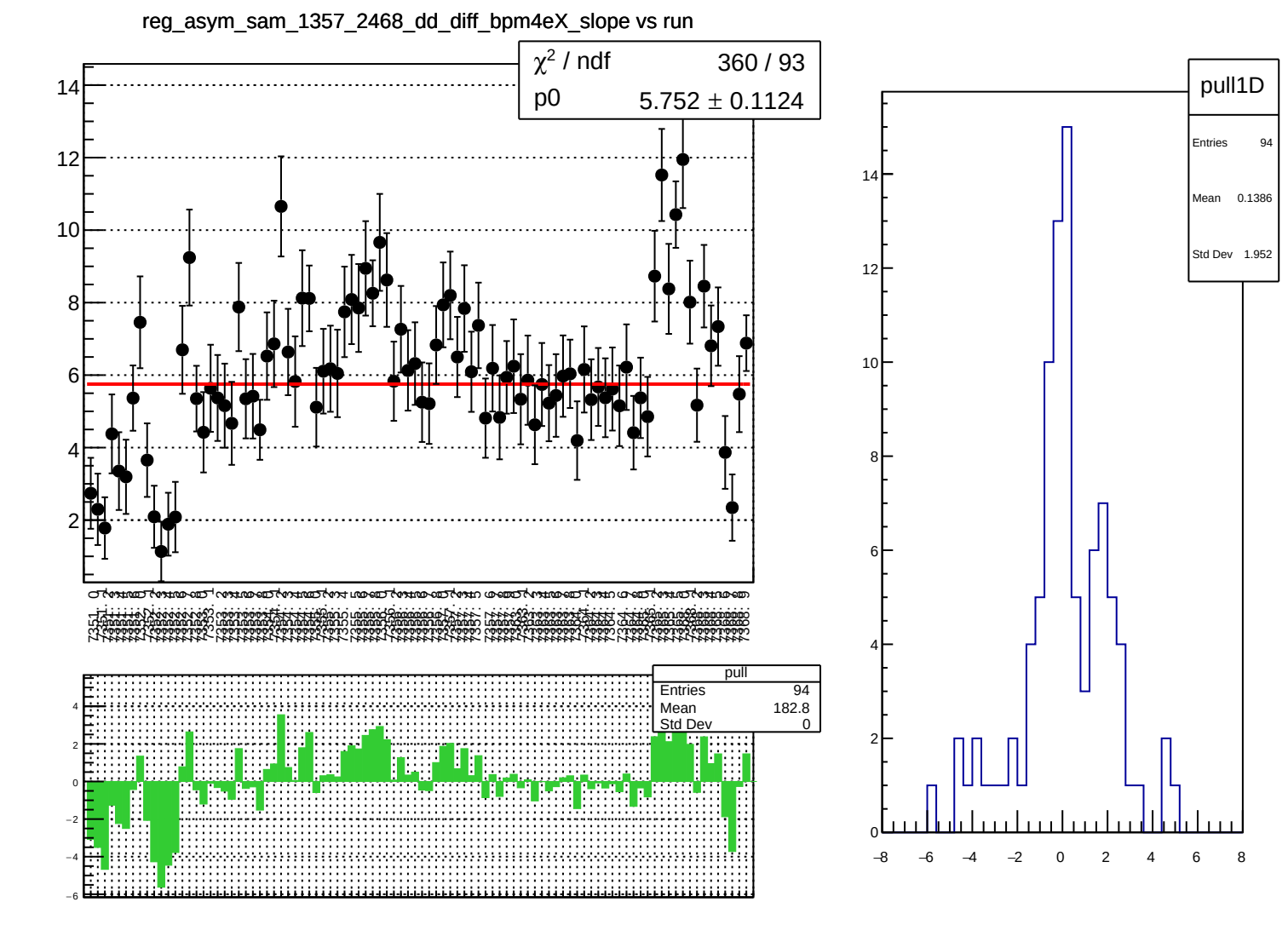

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 158.5 / 93
p0 26.59 ± 0.4957
pull
Entries 94
Mean −197
Std Dev 0

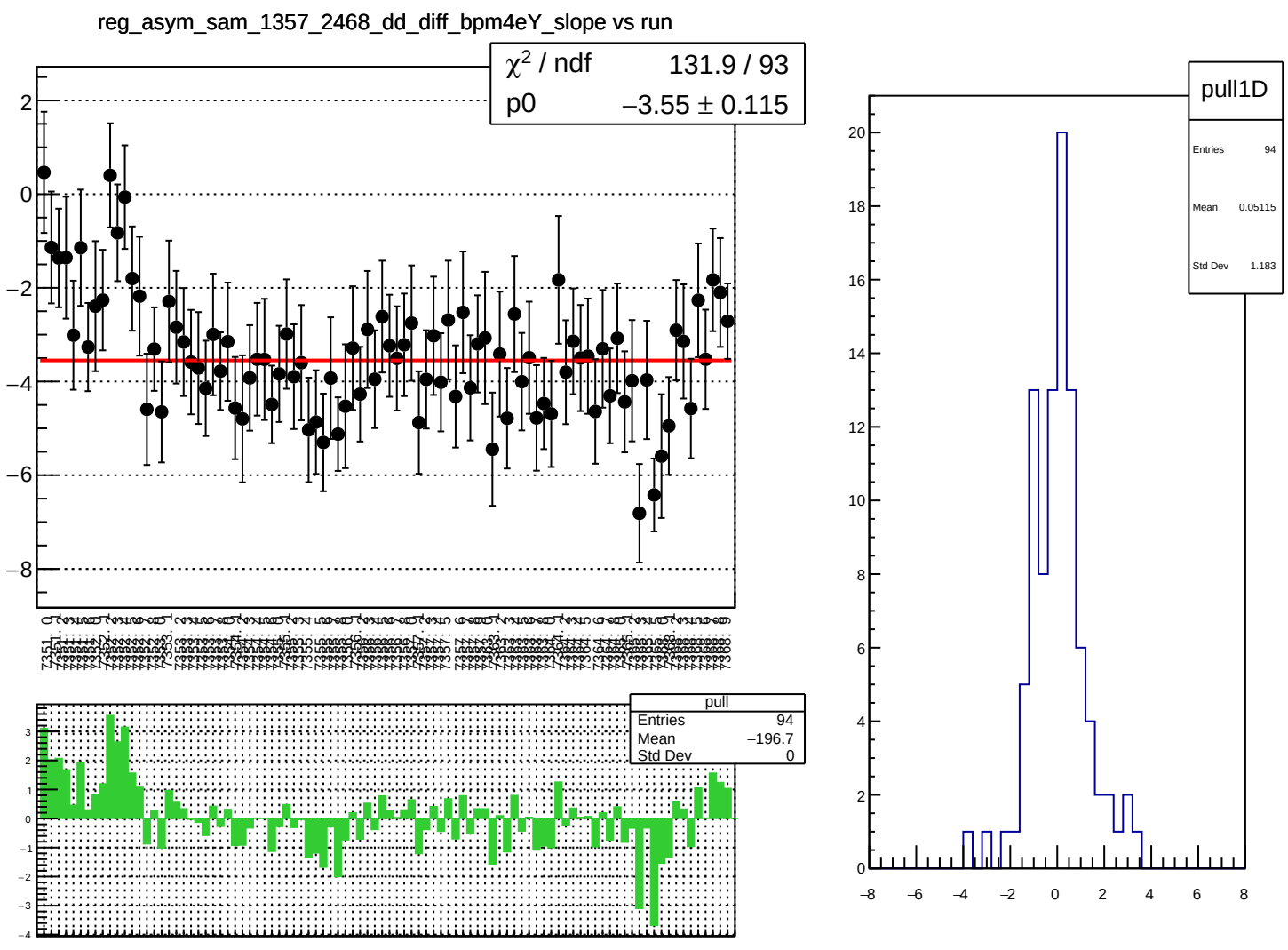

pull1D
Entries 94
Mean −0.05024
Std Dev 1.298

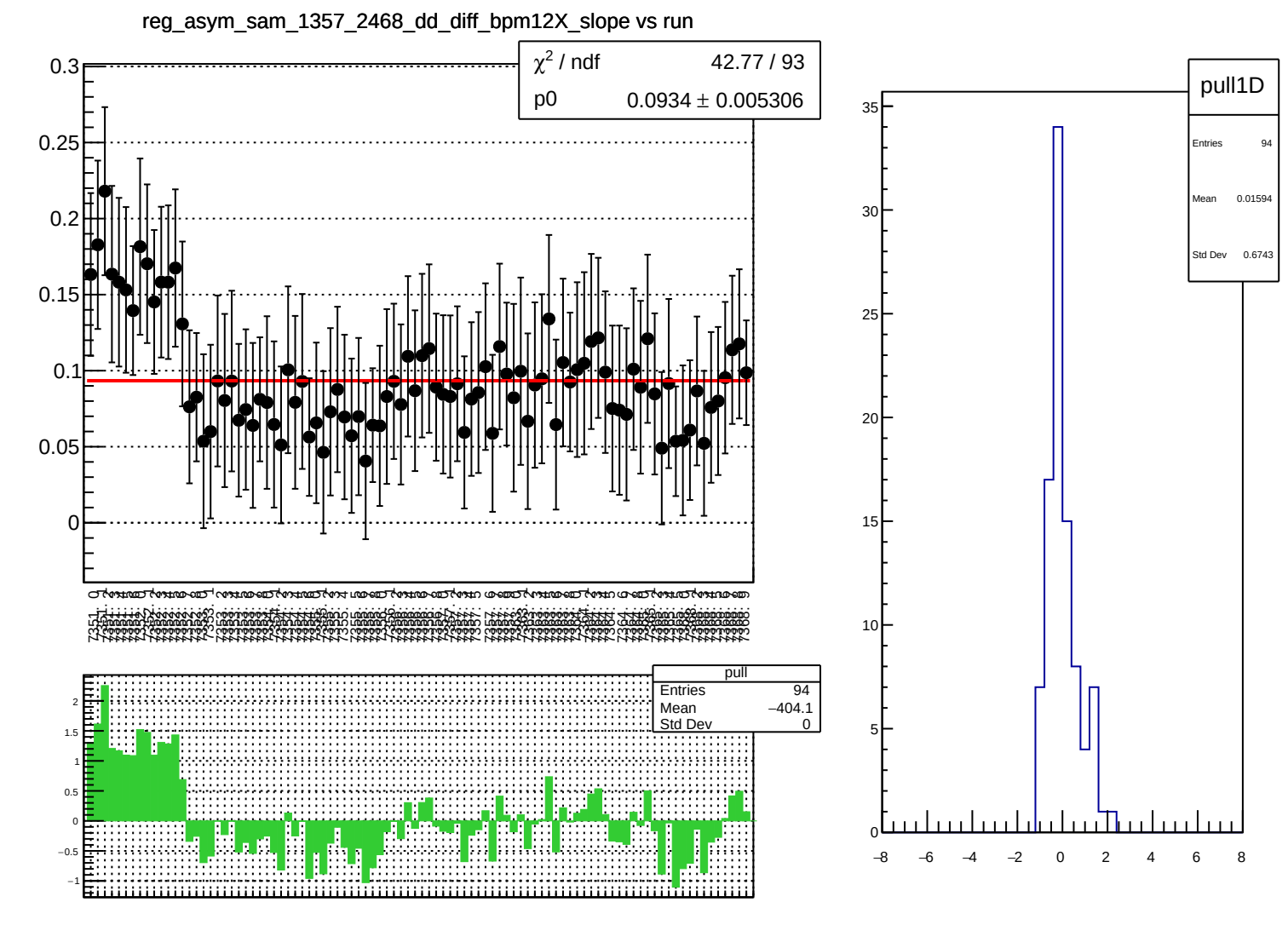

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 54.65 / 93
p0 −0.261 ± 0.02285
pull
Entries 94
Mean −528.5
Std Dev 0
pull1D
Entries 94
Mean −0.01576
Std Dev 0.7623

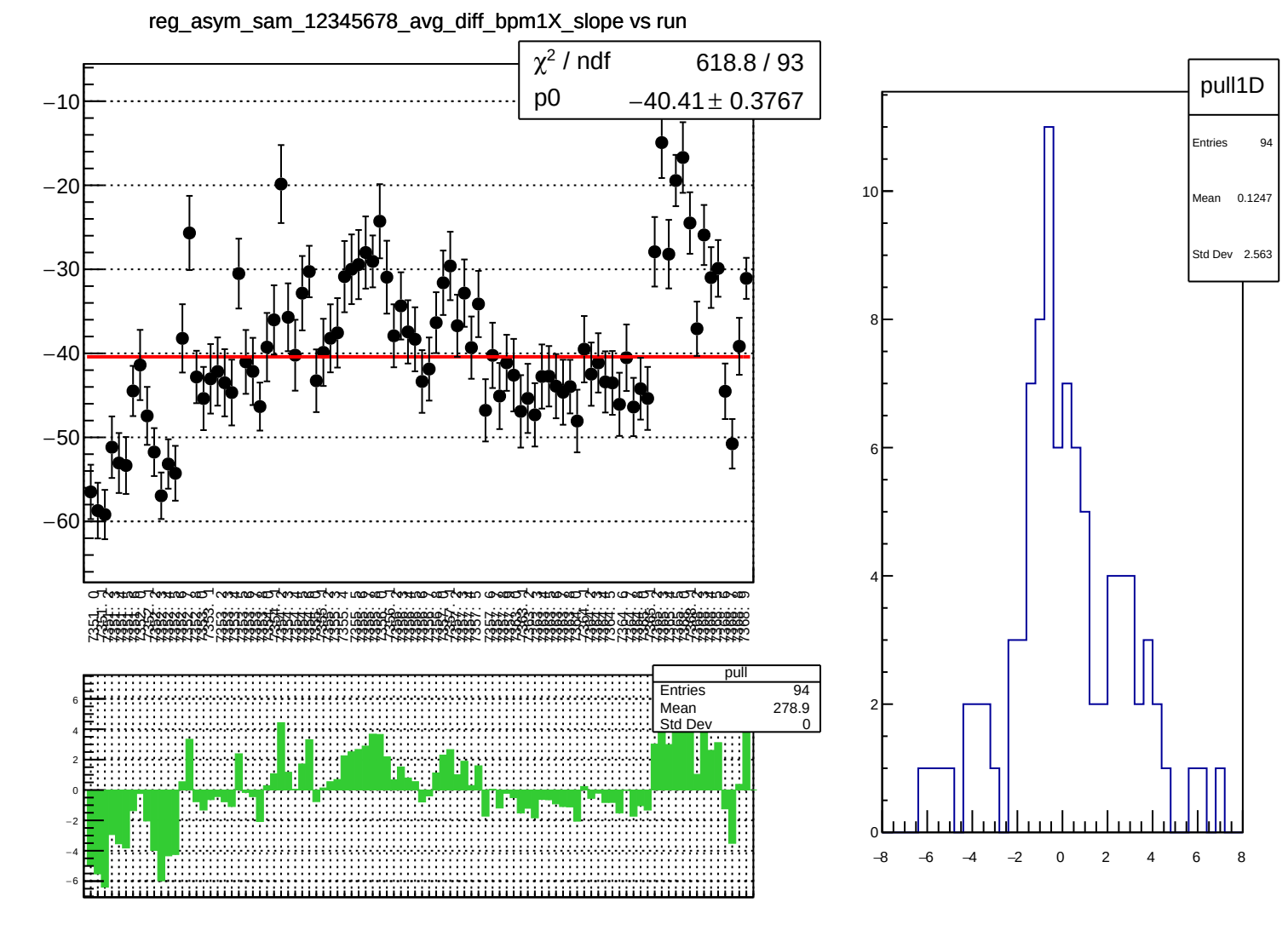

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 532 / 93
p0 12.65 ± 0.1131
pull
Entries 94
Mean 256
Std Dev 0
pull1D
Entries 94
Mean −0.1241
Std Dev 2.376

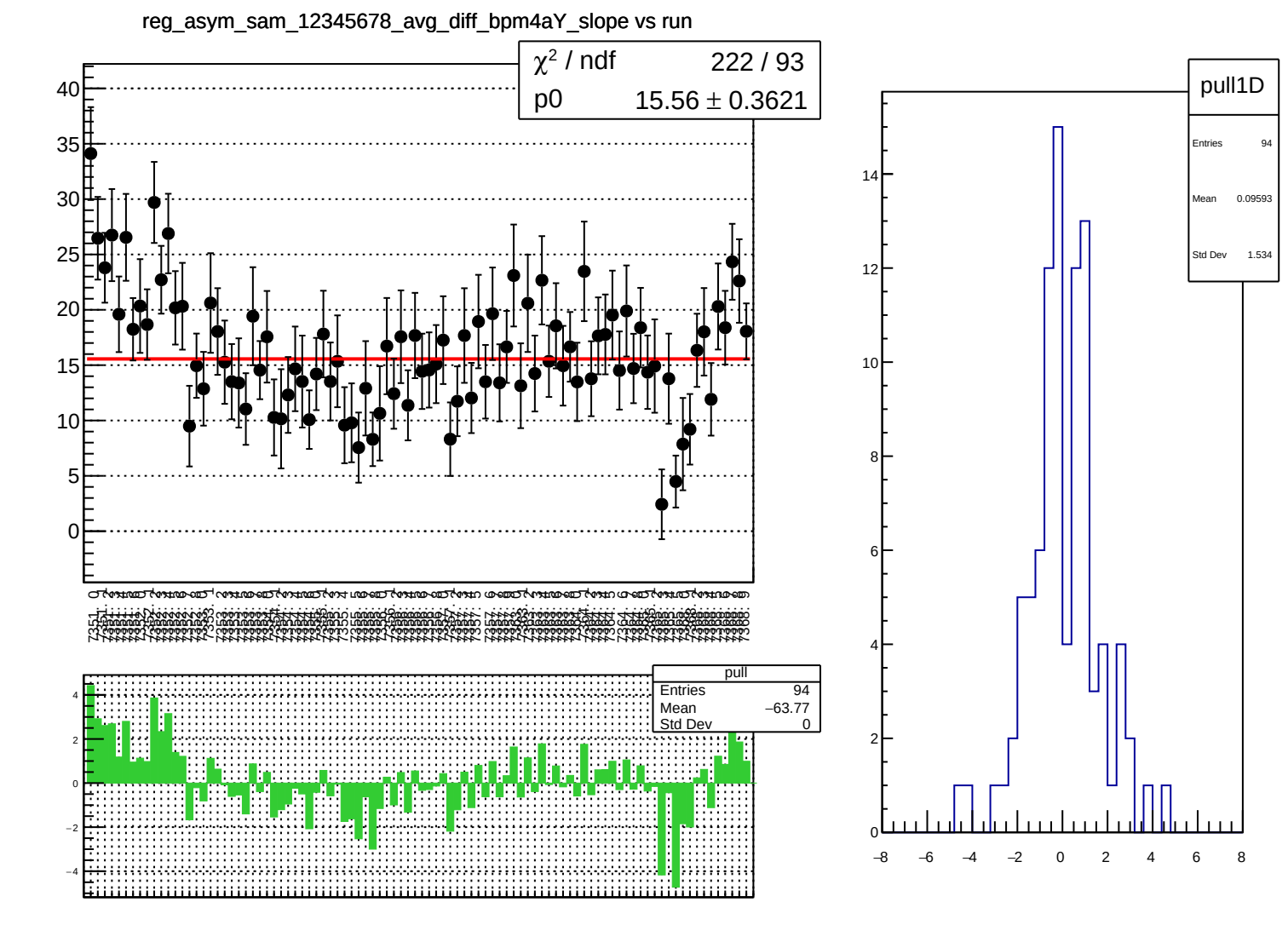

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 176.8 / 93
p0 −3.31 ± 0.1086
pull
Entries 94
Mean −71.71
Std Dev 0
pull1D
Entries 94
Mean −0.08777
Std Dev 1.368

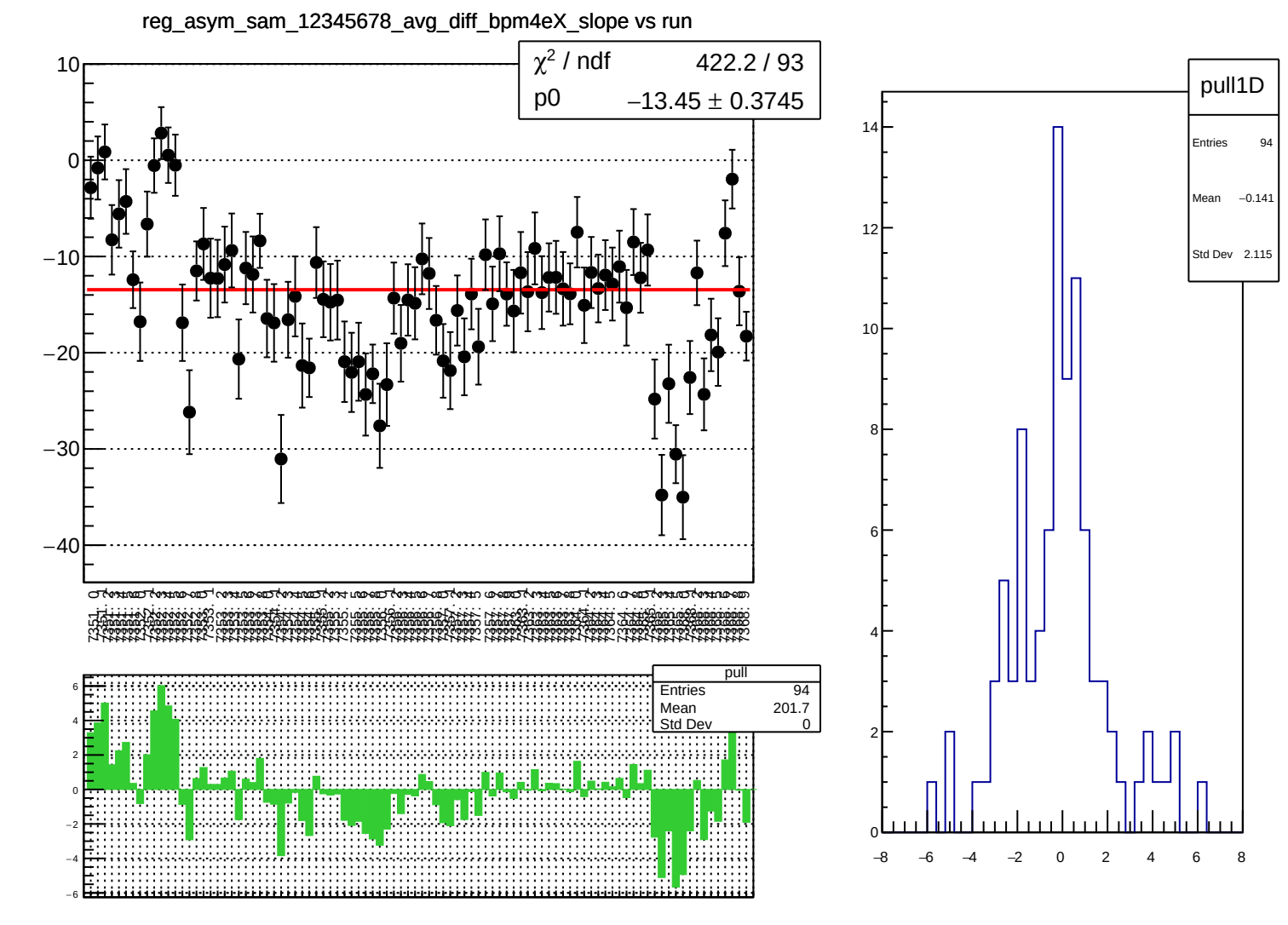

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 360 / 93
p0 5.752 ± 0.1124
pull
Entries 94
Mean 182.8
Std Dev 0
pull1D
Entries 94
Mean 0.1386
Std Dev 1.952

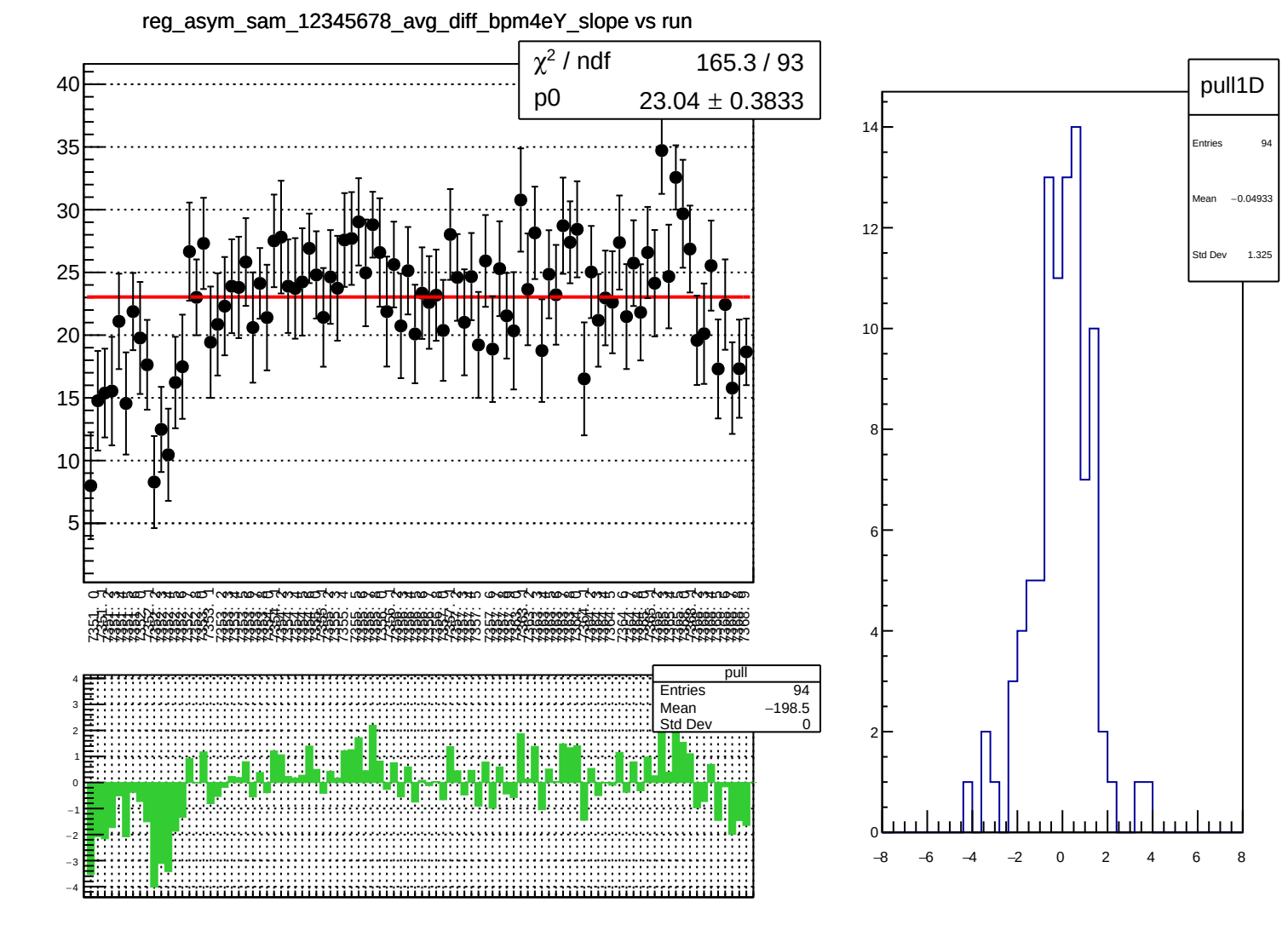

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 131.9 / 93
p0 −3.55 ± 0.115
pull
Entries 94
Mean −196.7
Std Dev 0
pull1D
Entries 94
Mean 0.05115
Std Dev 1.183

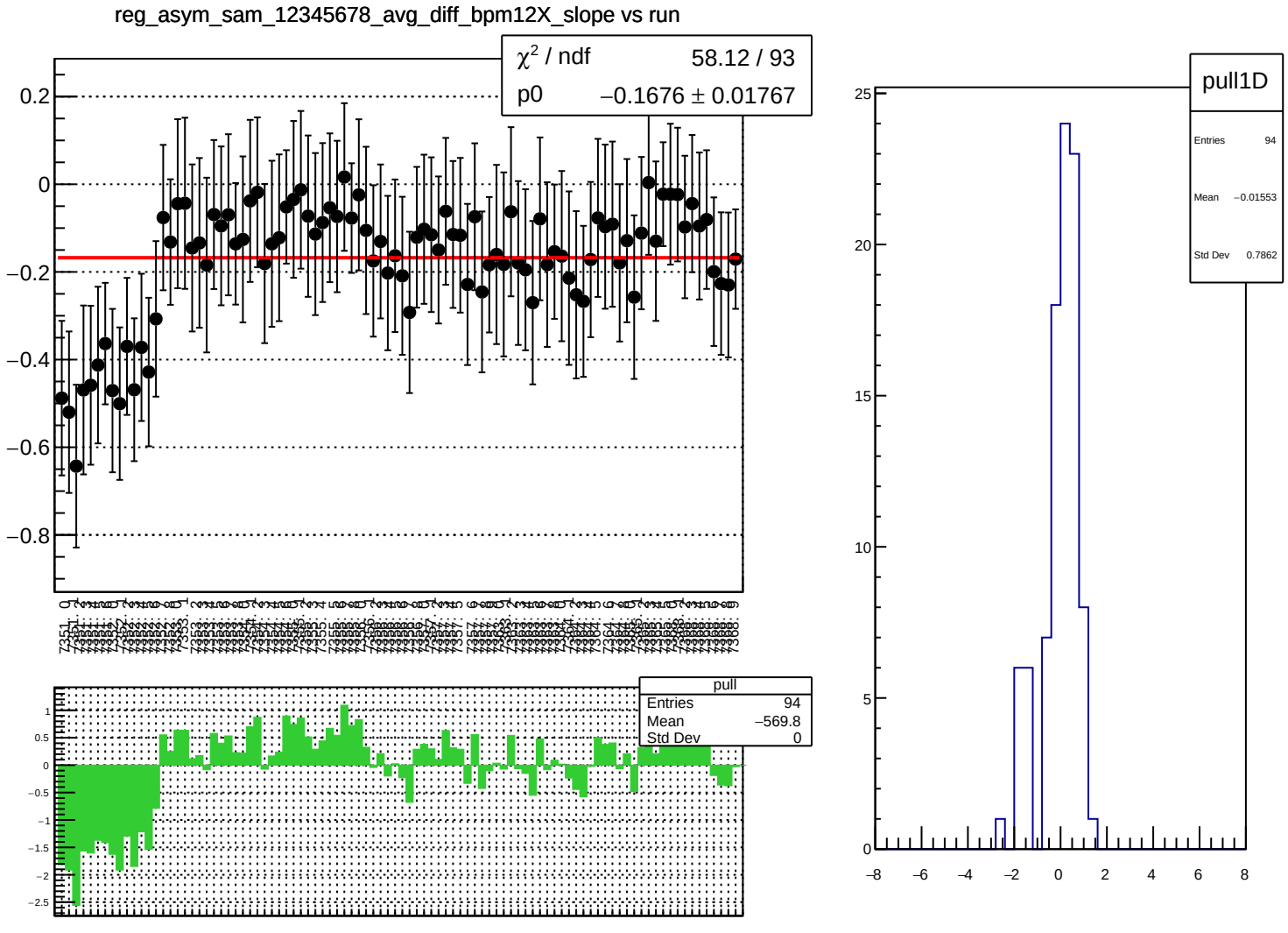

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 42.77 / 93
p0 0.0934 ± 0.005306
pull
Entries 94
Mean −404.1
Std Dev 0
pull1D
Entries 94
Mean 0.01594
Std Dev 0.6743

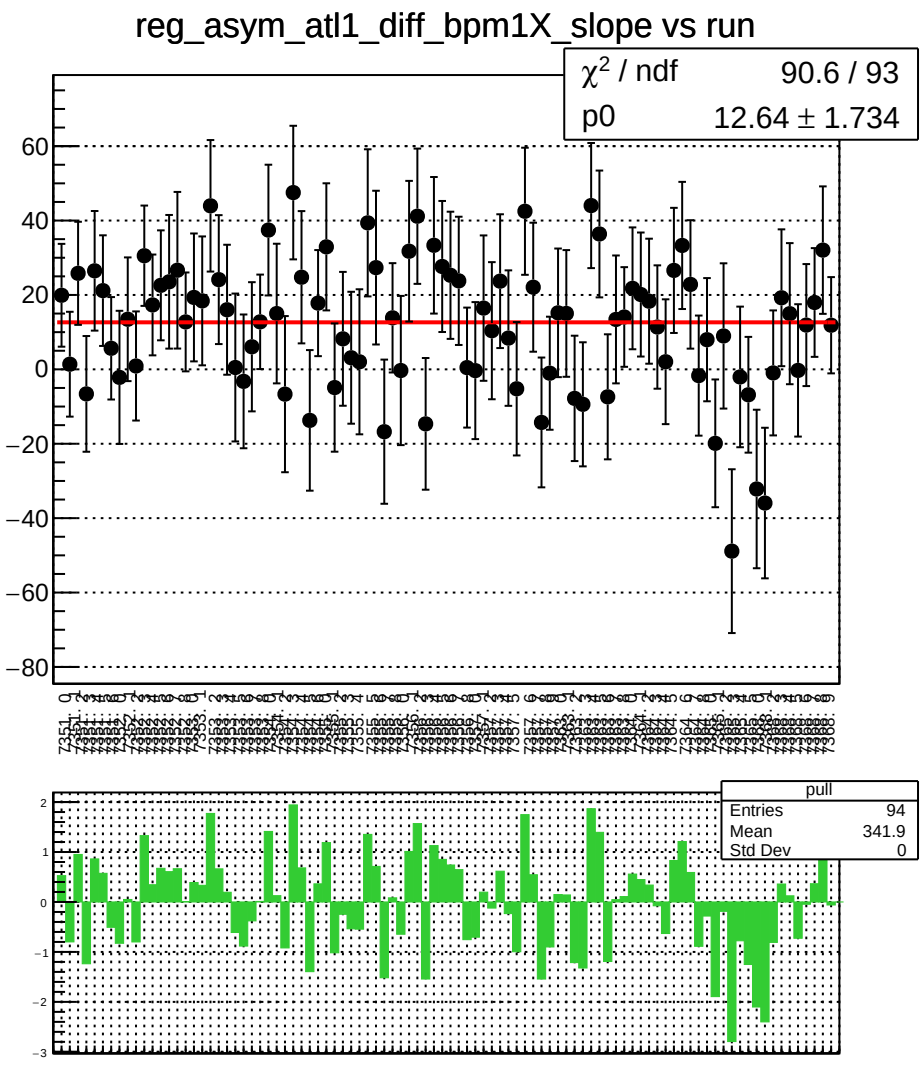

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 618.8 / 93
p0 −40.41 ± 0.3767
pull
Entries 94
Mean 278.9
Std Dev 0
pull1D
Entries 94
Mean 0.1247
Std Dev 2.563

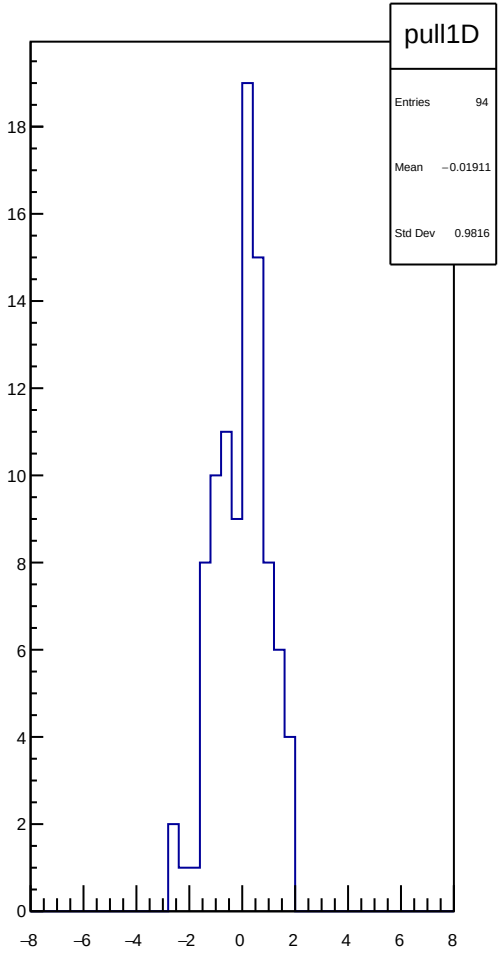

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 222 / 93
p0 15.56 ± 0.3621
pull
Entries 94
Mean −63.77
Std Dev 0
pull1D
Entries 94
Mean 0.09593
Std Dev 1.534

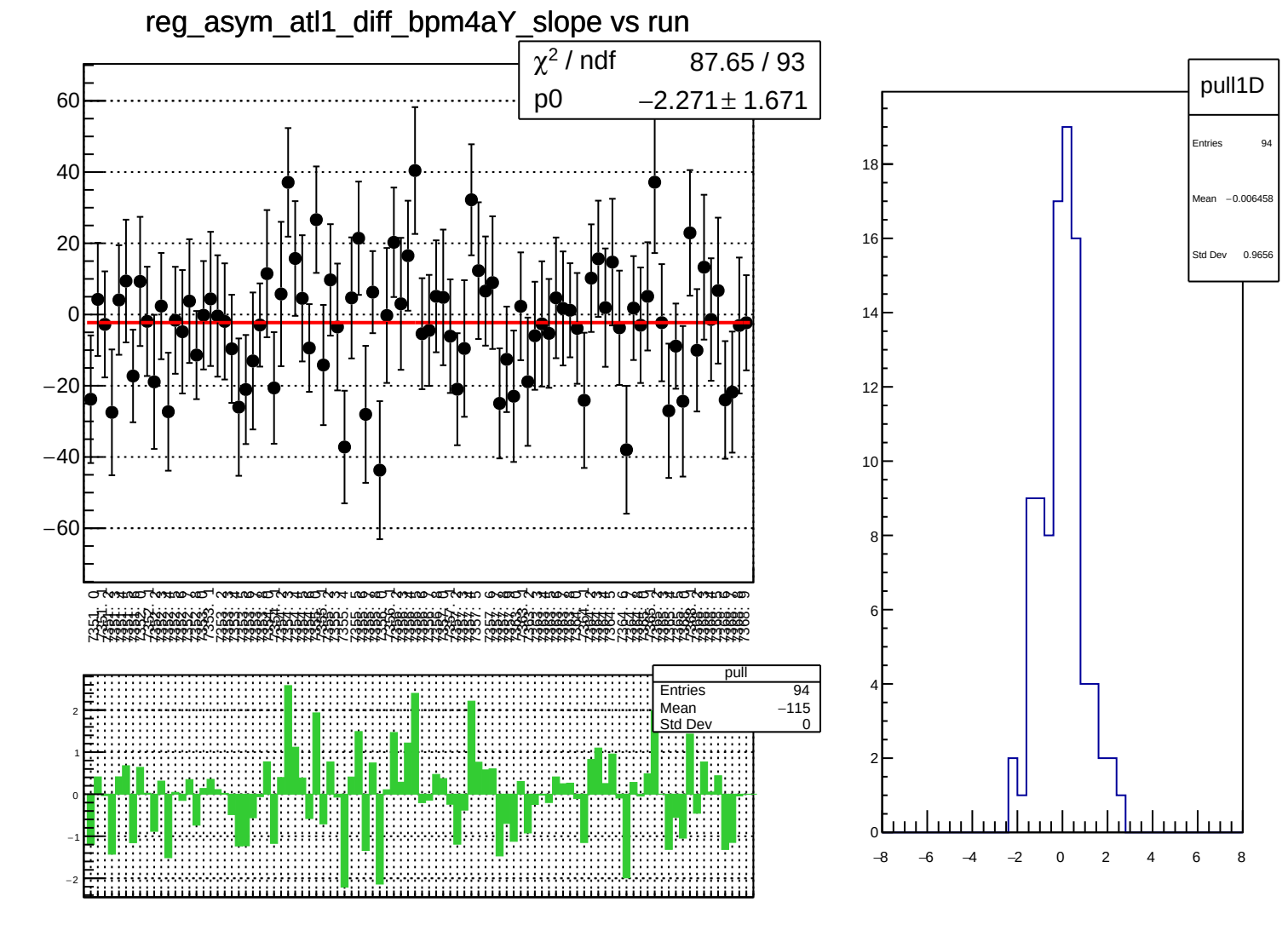

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 422.2 / 93
p0 −13.45 ± 0.3745
pull
Entries 94
Mean 201.7
Std Dev 0
pull1D
Entries 94
Mean −0.141
Std Dev 2.115

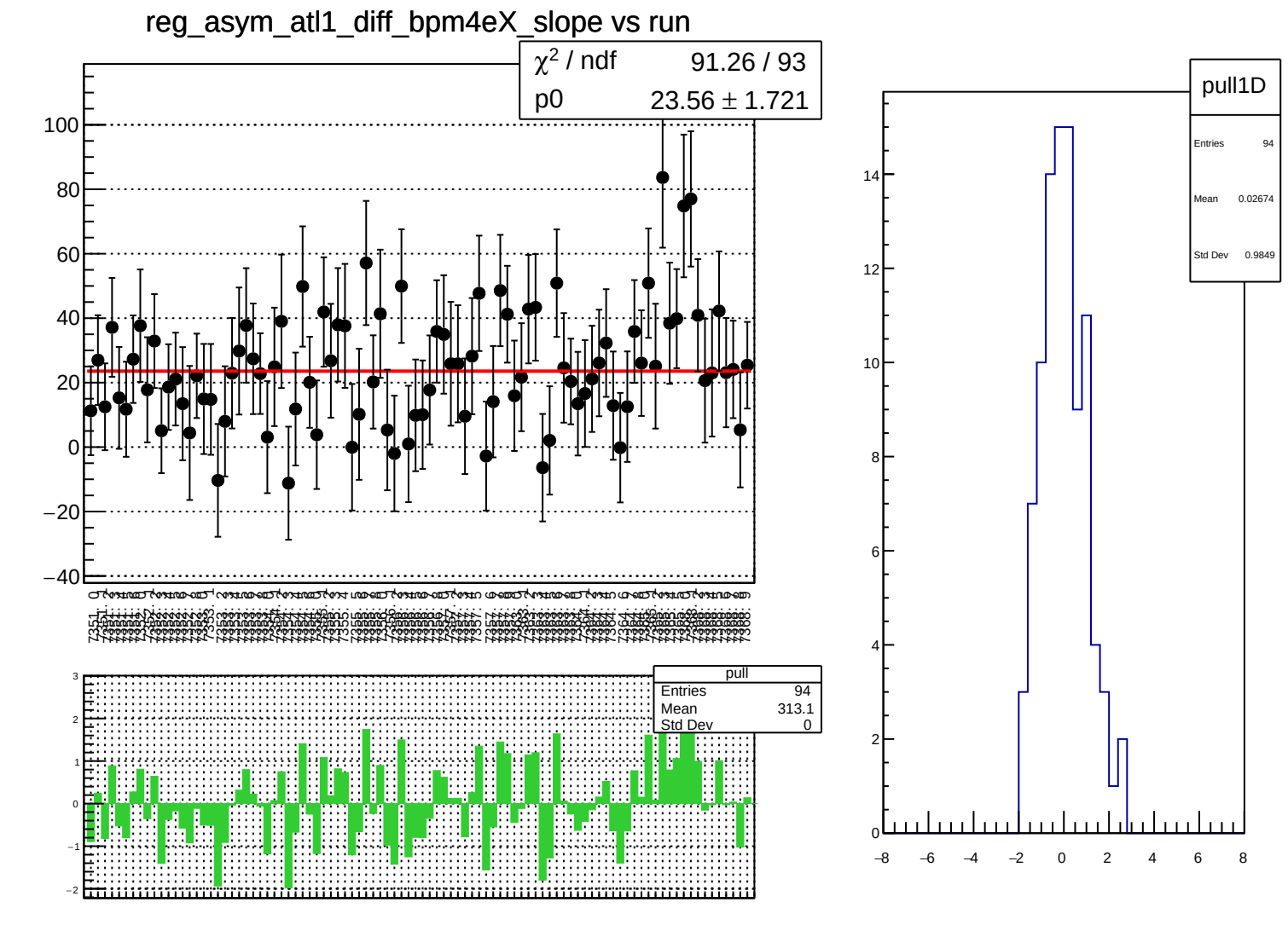

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 165.3 / 93
p0 23.04 ± 0.3833
pull
Entries 94
Mean −198.5
Std Dev 0
pull1D
Entries 94
Mean −0.04933
Std Dev 1.325

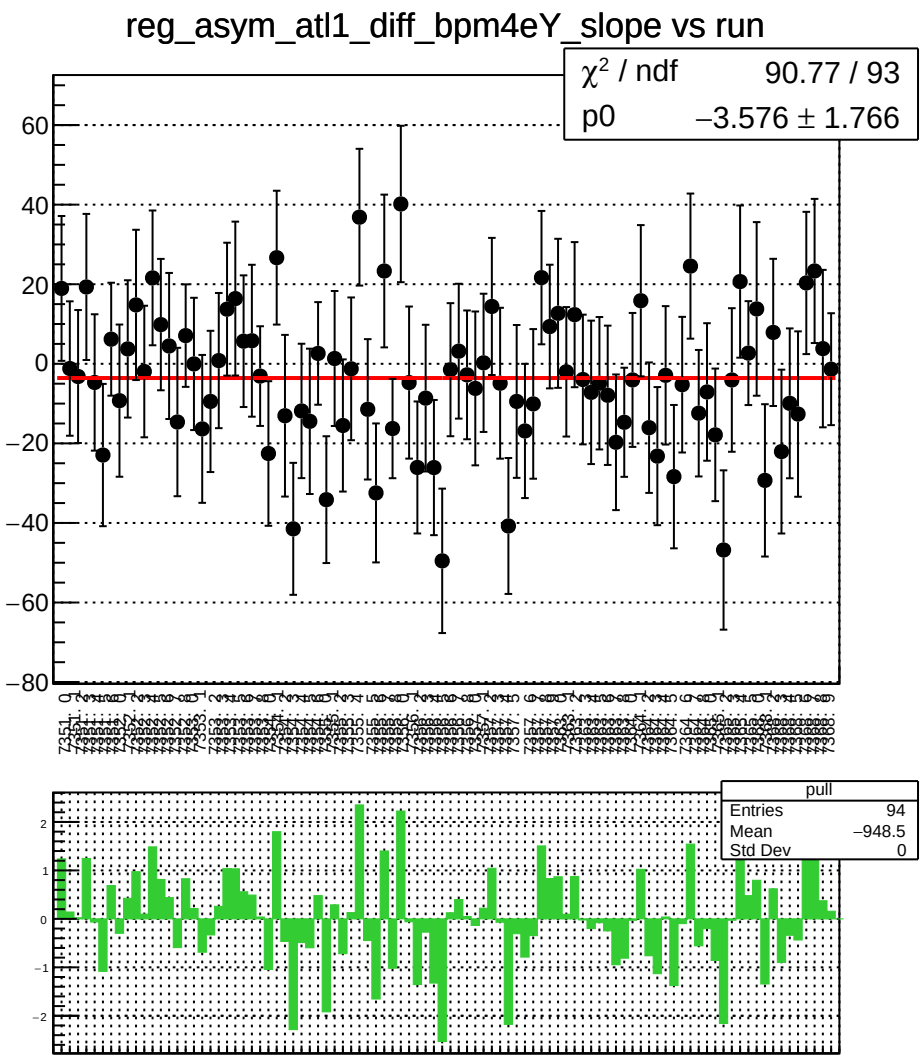

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 58.12 / 93
p0 −0.1676 ± 0.01767
0.2
0
−0.2
−0.4
−0.6
−0.8
pull
Entries 94
Mean −569.8
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 94
Mean −0.01553
Std Dev 0.7862
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

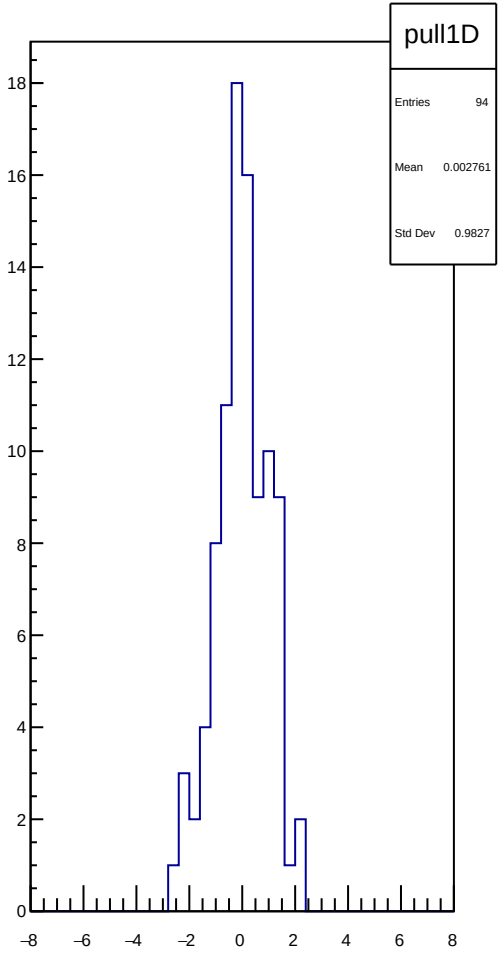

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 90.6 / 93
p0 12.64 ± 1.734
pull
Entries 94
Mean 341.9
Std Dev 0

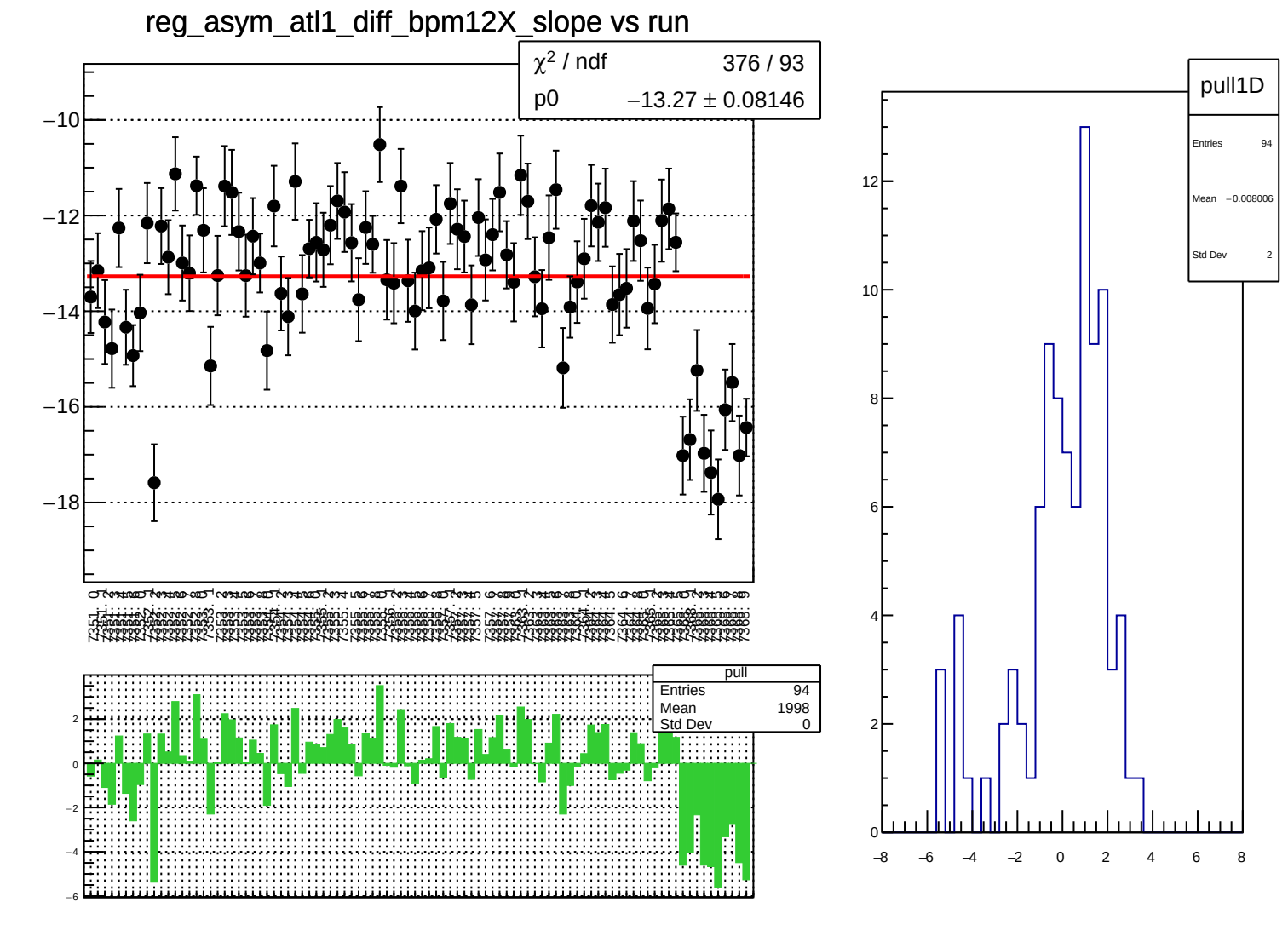

pull1D
Entries 94
Mean −0.01911
Std Dev 0.9816

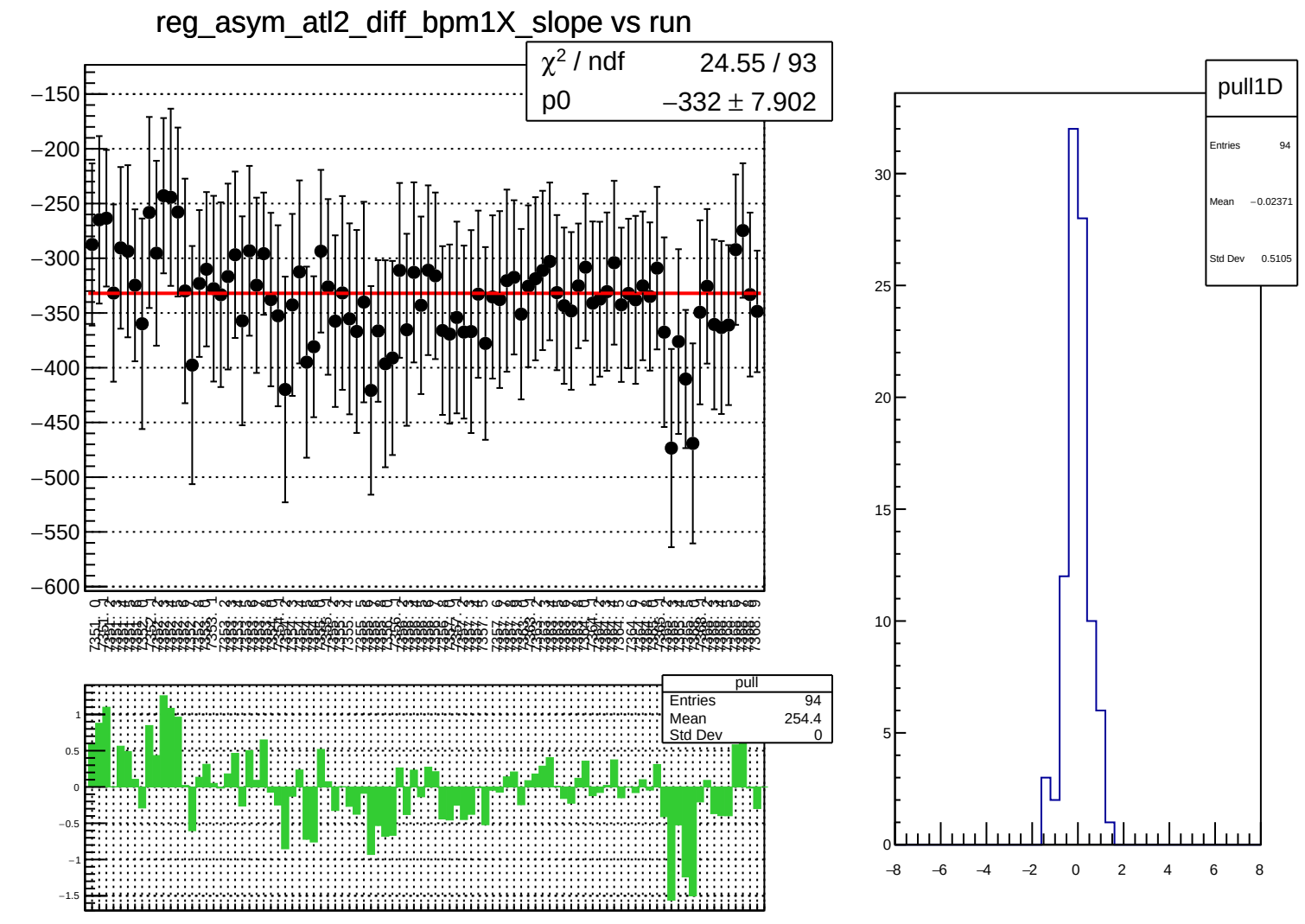

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 87.65 / 93
p0 −2.271 ± 1.671
pull
Entries 94
Mean −115
Std Dev 0
pull1D
Entries 94
Mean −0.006458
Std Dev 0.9656

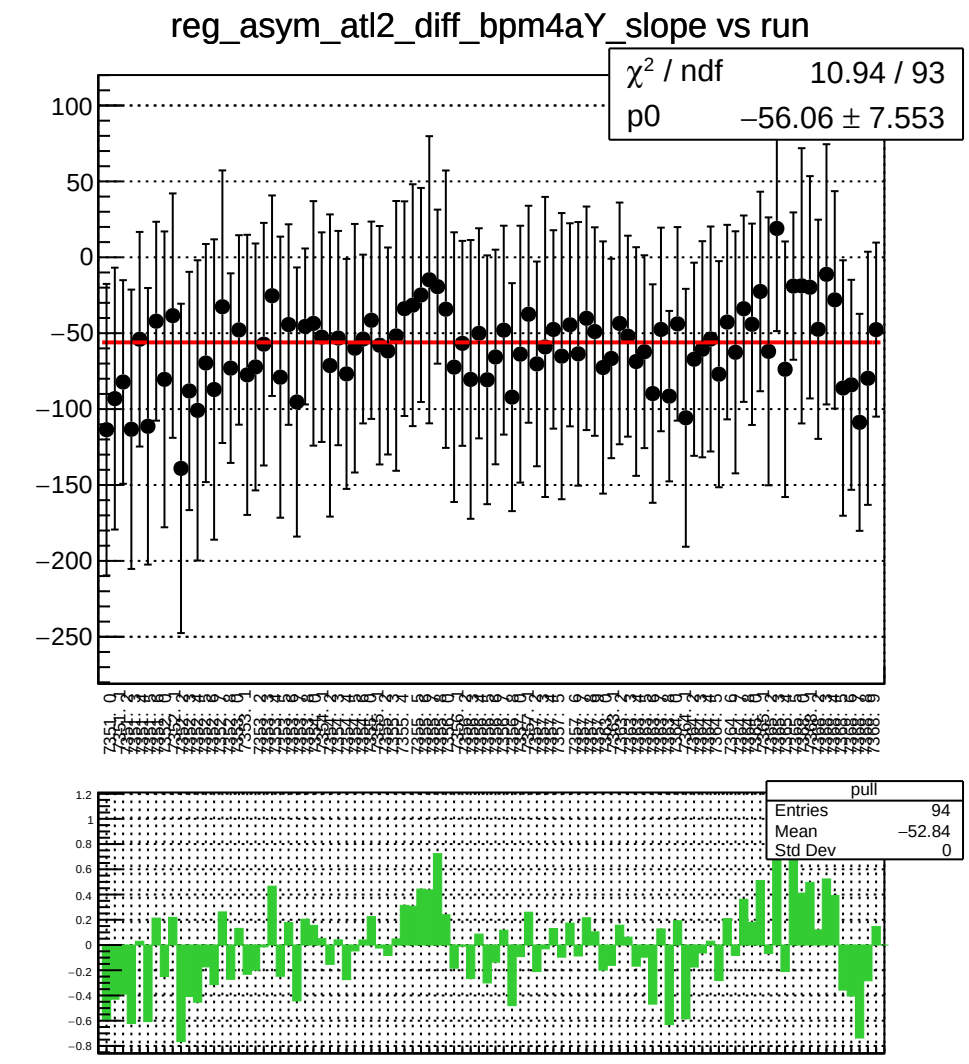

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 91.26 / 93
p0 23.56 ± 1.721
pull
Entries 94
Mean 313.1
Std Dev 0
pull1D
Entries 94
Mean 0.02674
Std Dev 0.9849

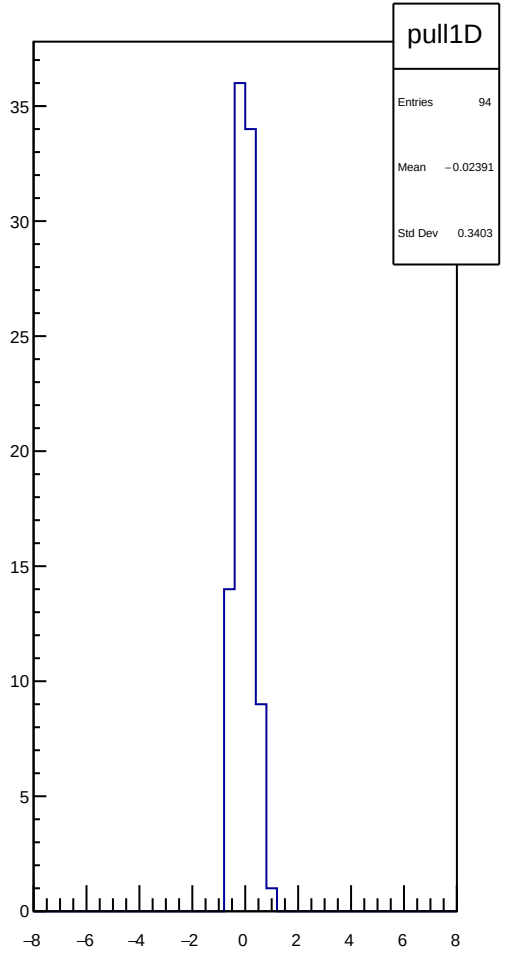

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 90.77 / 93
p0 −3.576 ± 1.766
pull
Entries 94
Mean −948.5
Std Dev 0

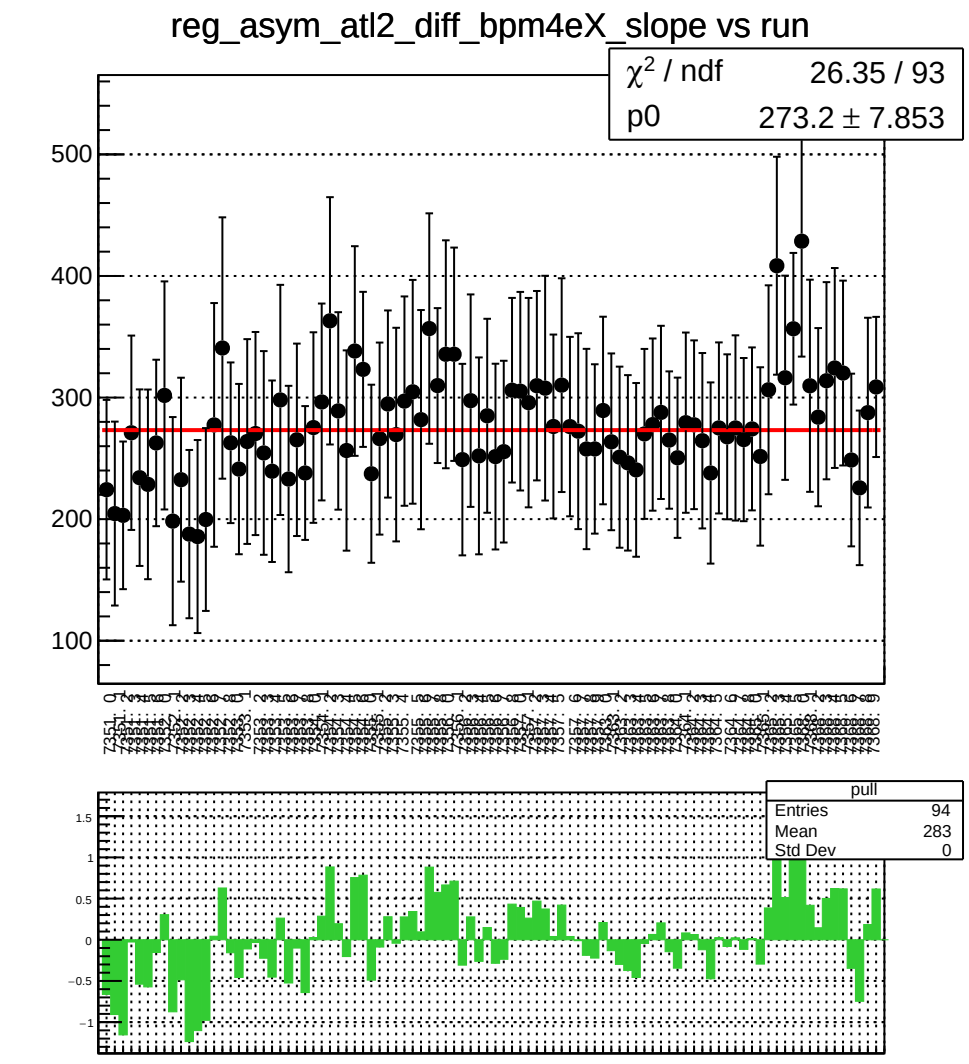

pull1D
Entries 94
Mean 0.002761
Std Dev 0.9827

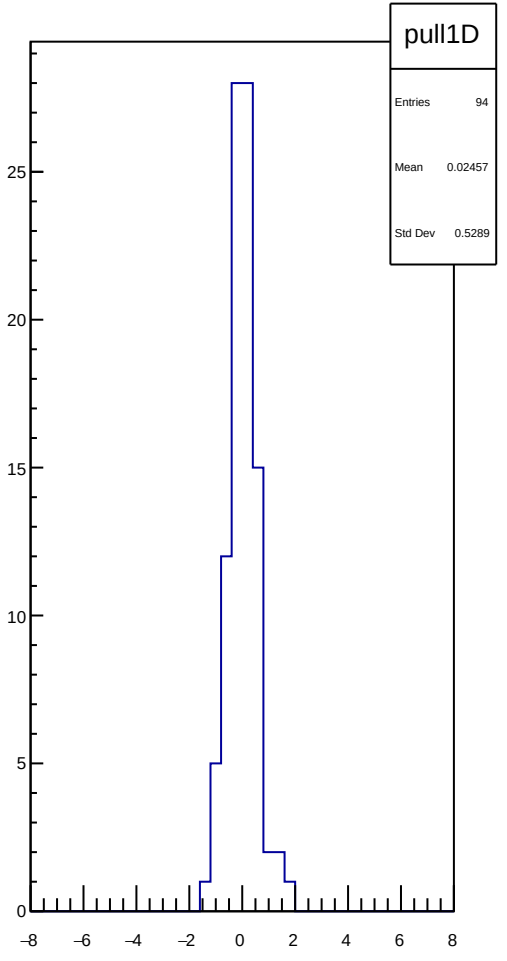

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 376 / 93
p0 −13.27 ± 0.08146
pull
Entries 94
Mean 1998
Std Dev 0
pull1D
Entries 94
Mean −0.008006
Std Dev 2

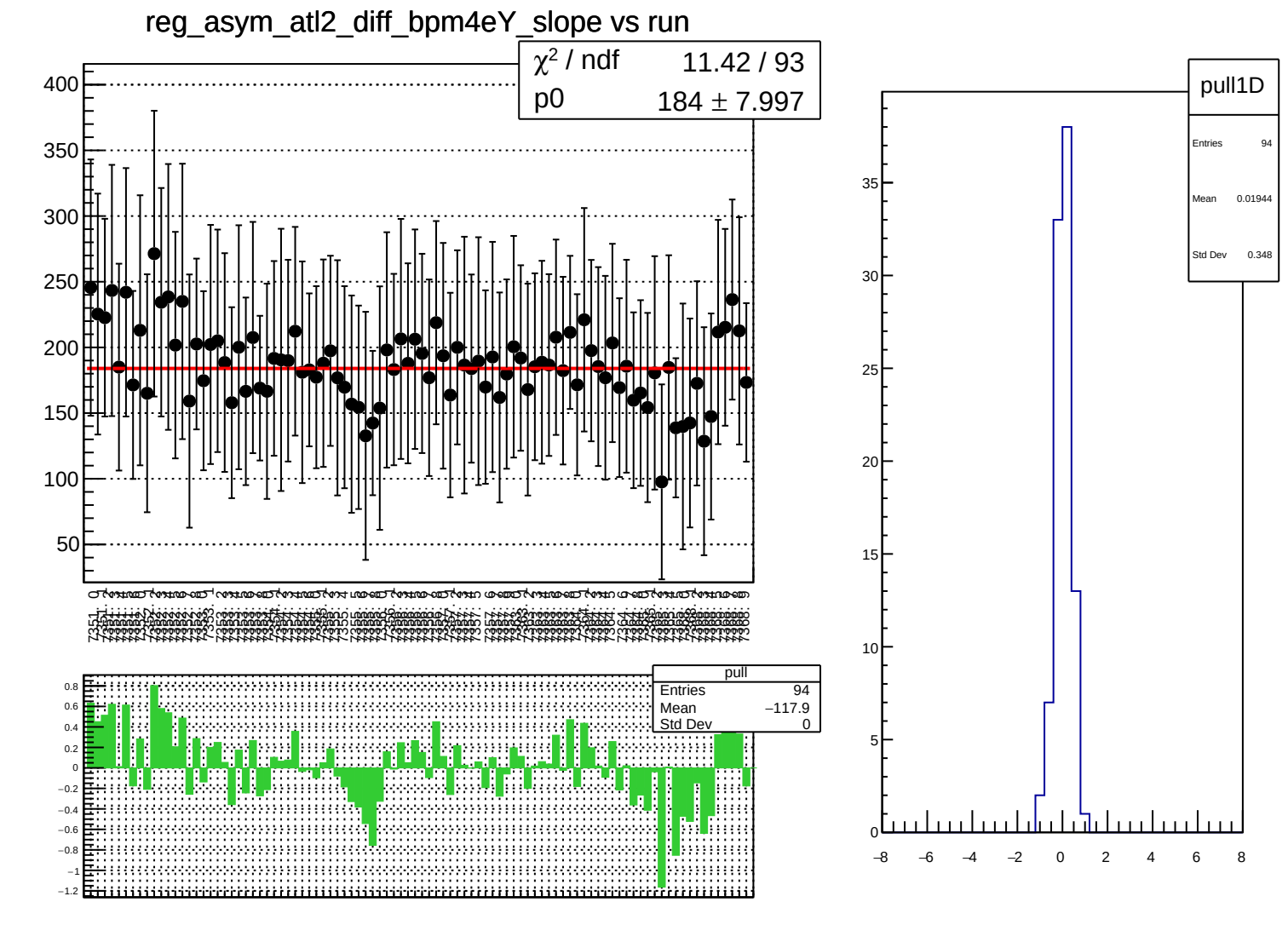

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 24.55 / 93
p0 −332 ± 7.902
−150
−200
−250
−300
−350
−400
−450
−500
−550
−600
pull
Entries 94
Mean 254.4
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 94
Mean −0.02371
Std Dev 0.5105
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

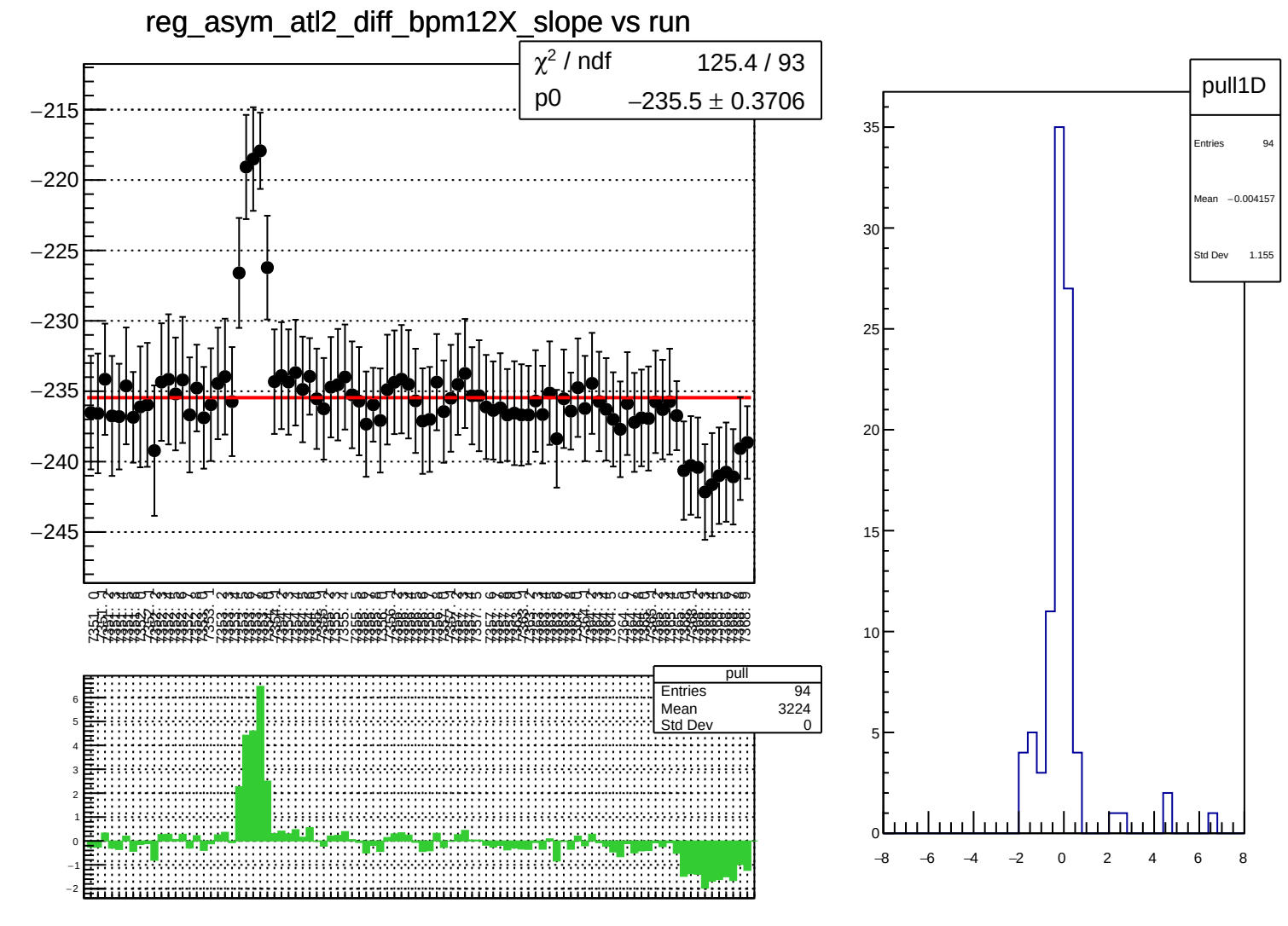

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 10.94 / 93
p0 −56.06 ± 7.553
pull
Entries 94
Mean −52.84
Std Dev 0

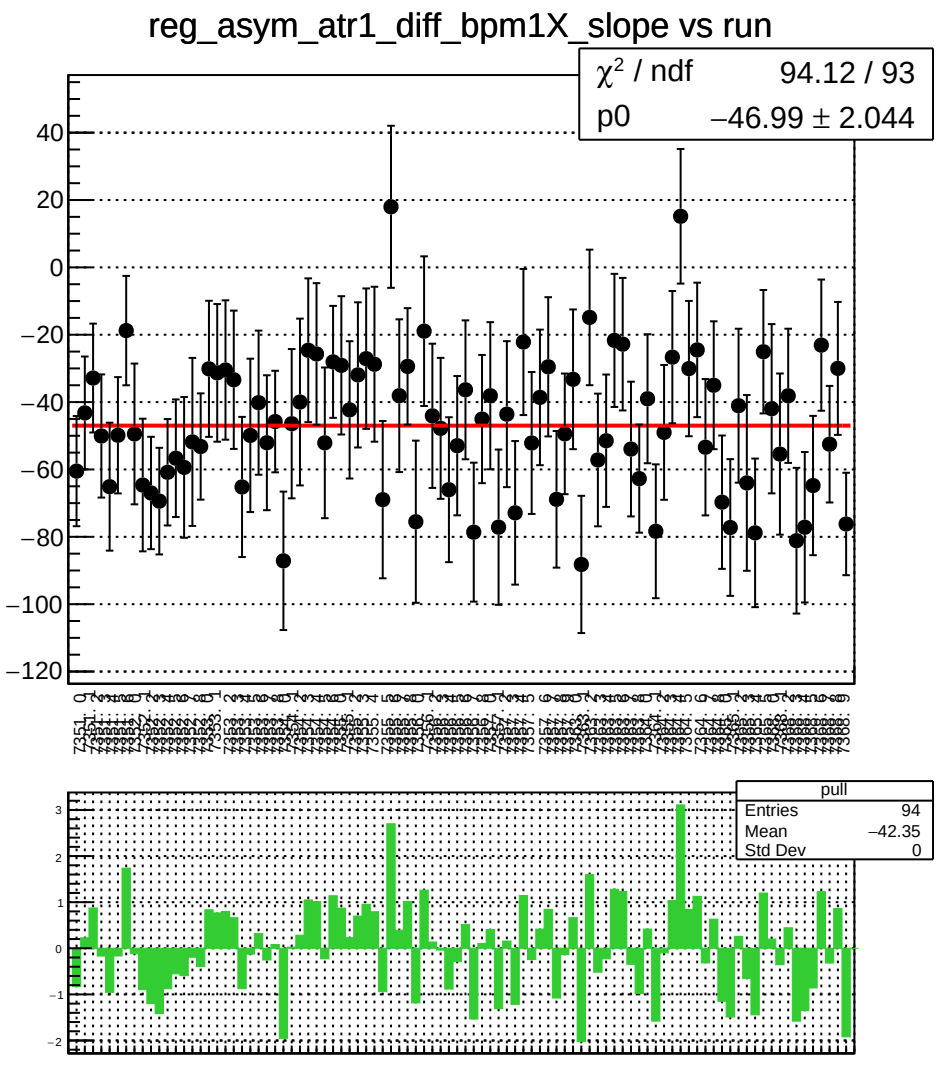

pull1D
Entries 94
Mean −0.02391
Std Dev 0.3403

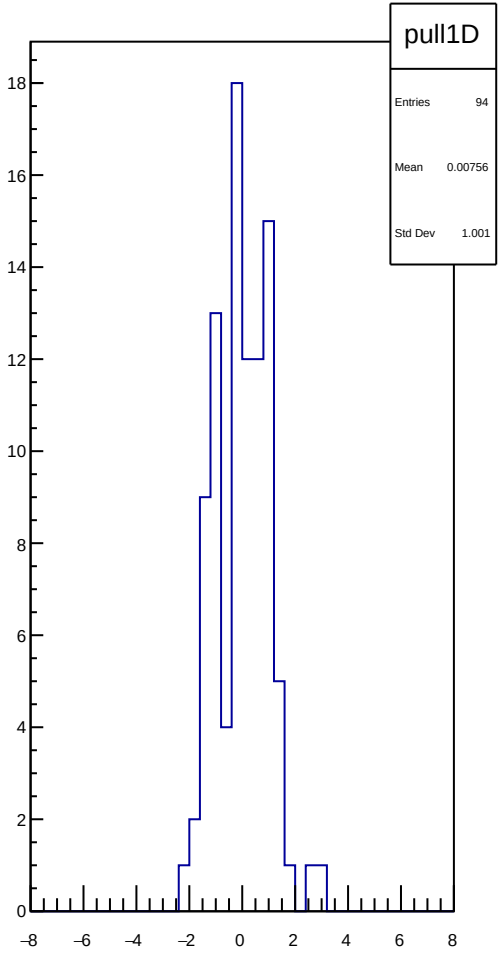

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 26.35 / 93
p0 273.2 ± 7.853
500
400
300
200
100
pull
Entries 94
Mean 283
Std Dev 0
1.5
1
0.5
0
−0.5
−1

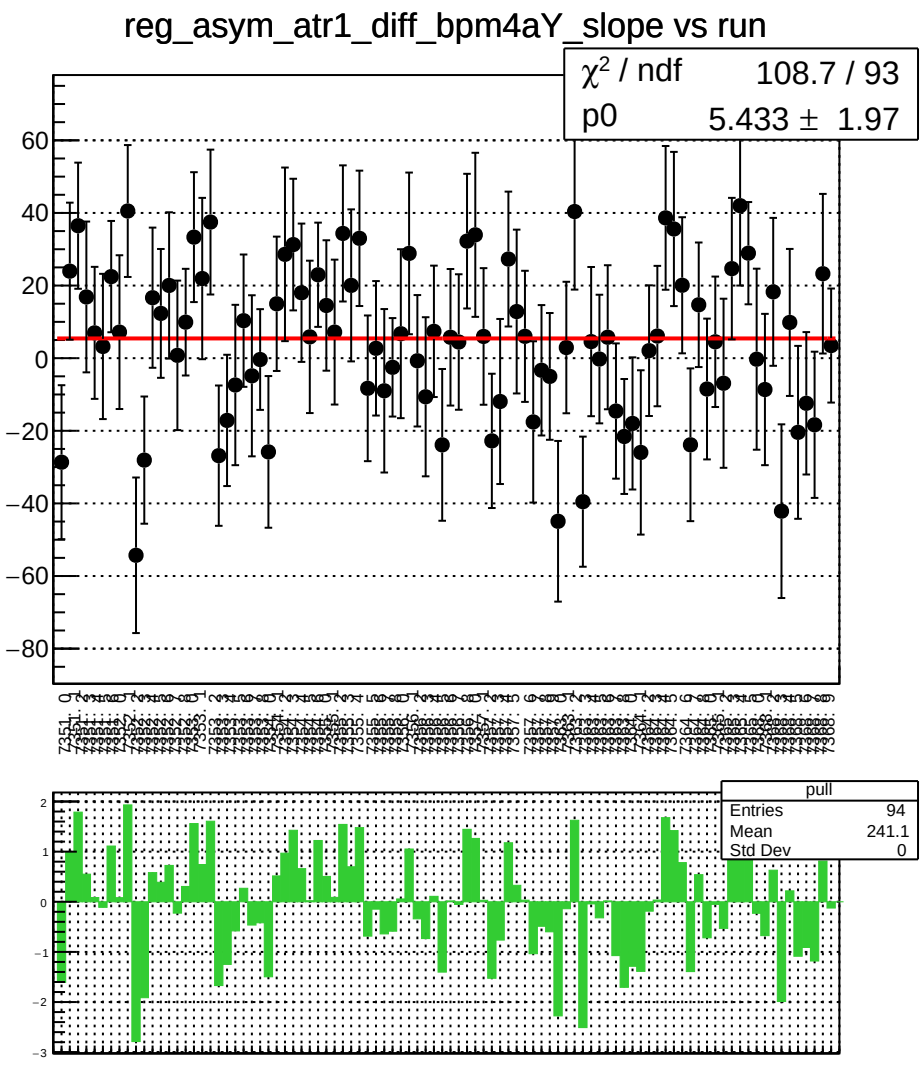

pull1D
Entries 94
Mean 0.02457
Std Dev 0.5289
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

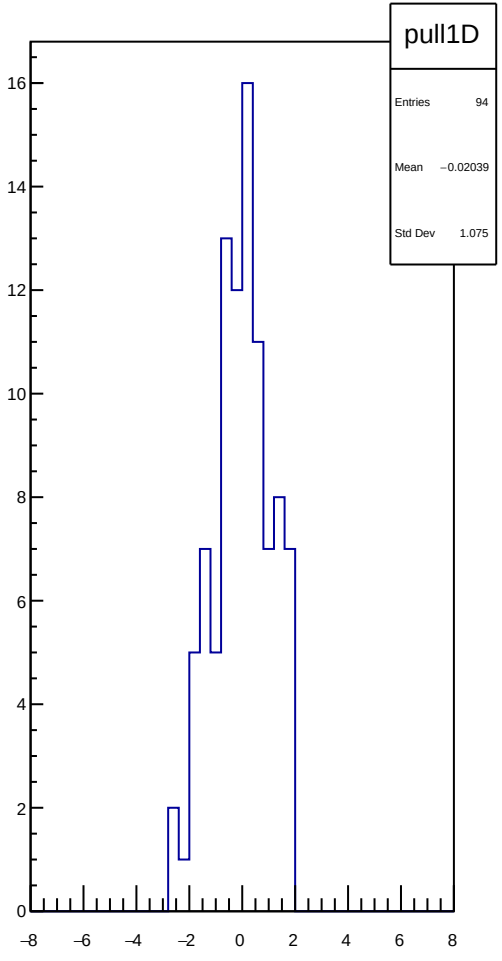

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 11.42 / 93
p0 184 ± 7.997
pull
Entries 94
Mean −117.9
Std Dev 0
pull1D
Entries 94
Mean 0.01944
Std Dev 0.348

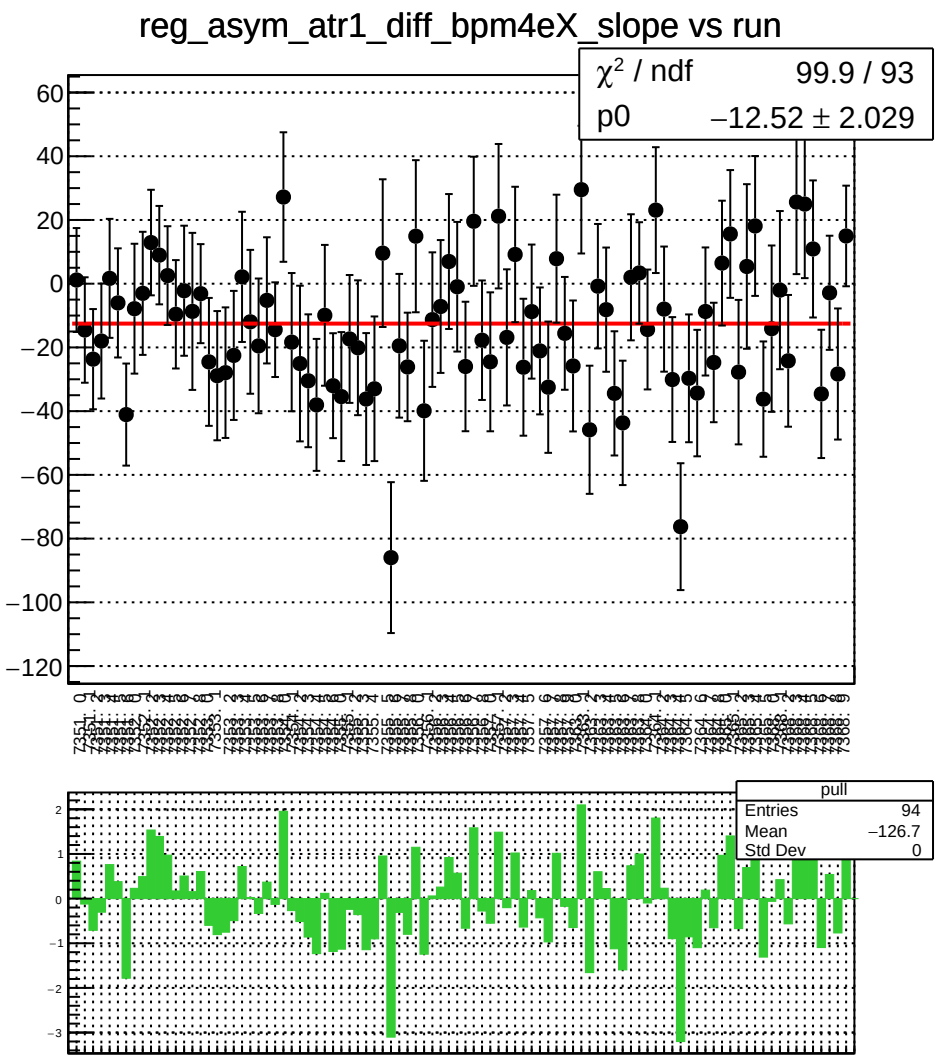

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 125.4 / 93
p0 −235.5 ± 0.3706
−215
−220
−225
−230
−235
−240
−245
pull
Entries 94
Mean 3224
Std Dev 0
6
5
4
3
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.004157
Std Dev 1.155
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

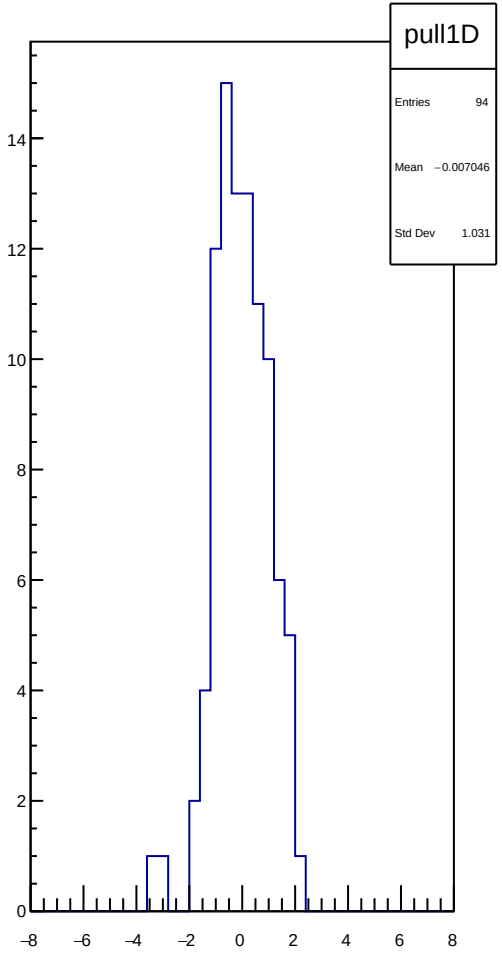

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 94.12 / 93
p0 −46.99 ± 2.044
pull
Entries 94
Mean −42.35
Std Dev 0

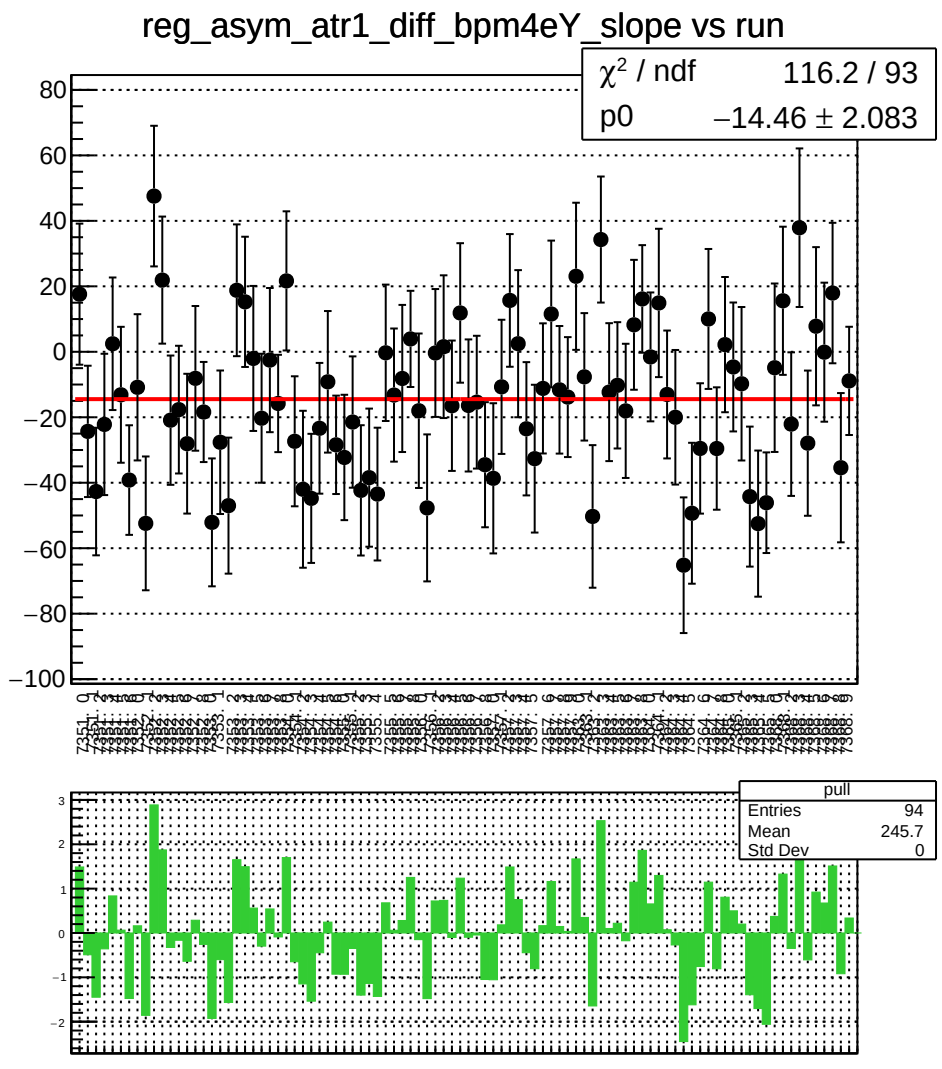

pull1D
Entries 94
Mean 0.00756
Std Dev 1.001

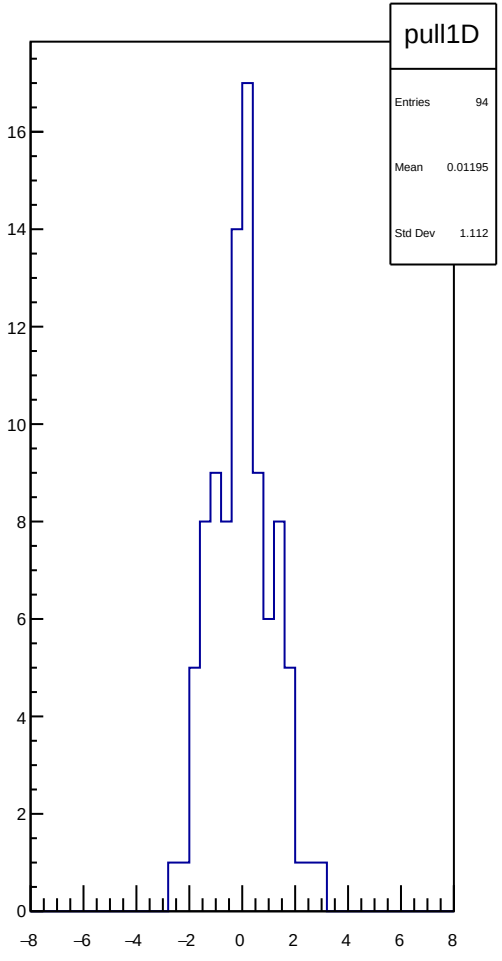

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 108.7 / 93
p0 5.433 ± 1.97
pull
Entries 94
Mean 241.1
Std Dev 0

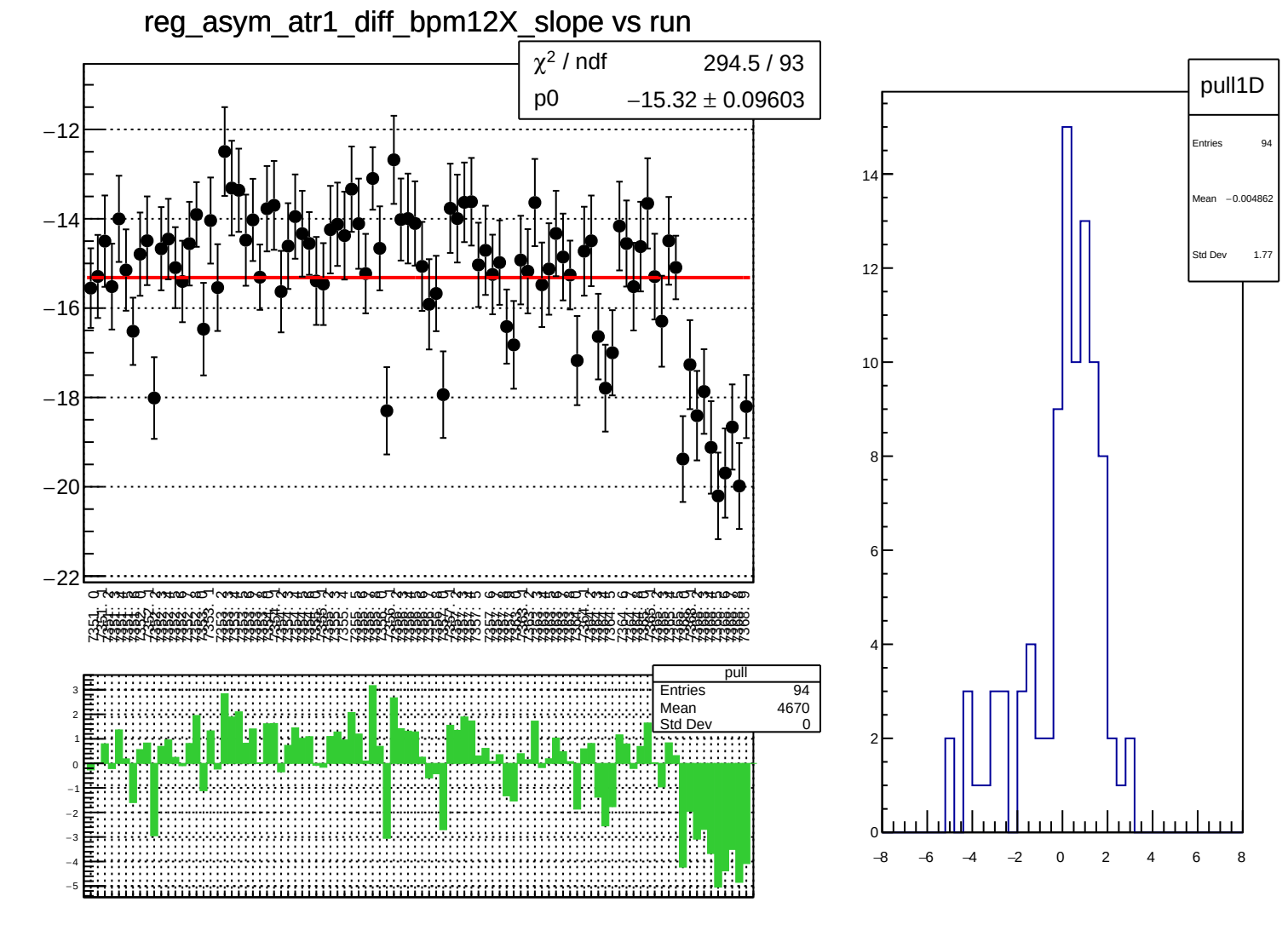

pull1D
Entries 94
Mean −0.02039
Std Dev 1.075

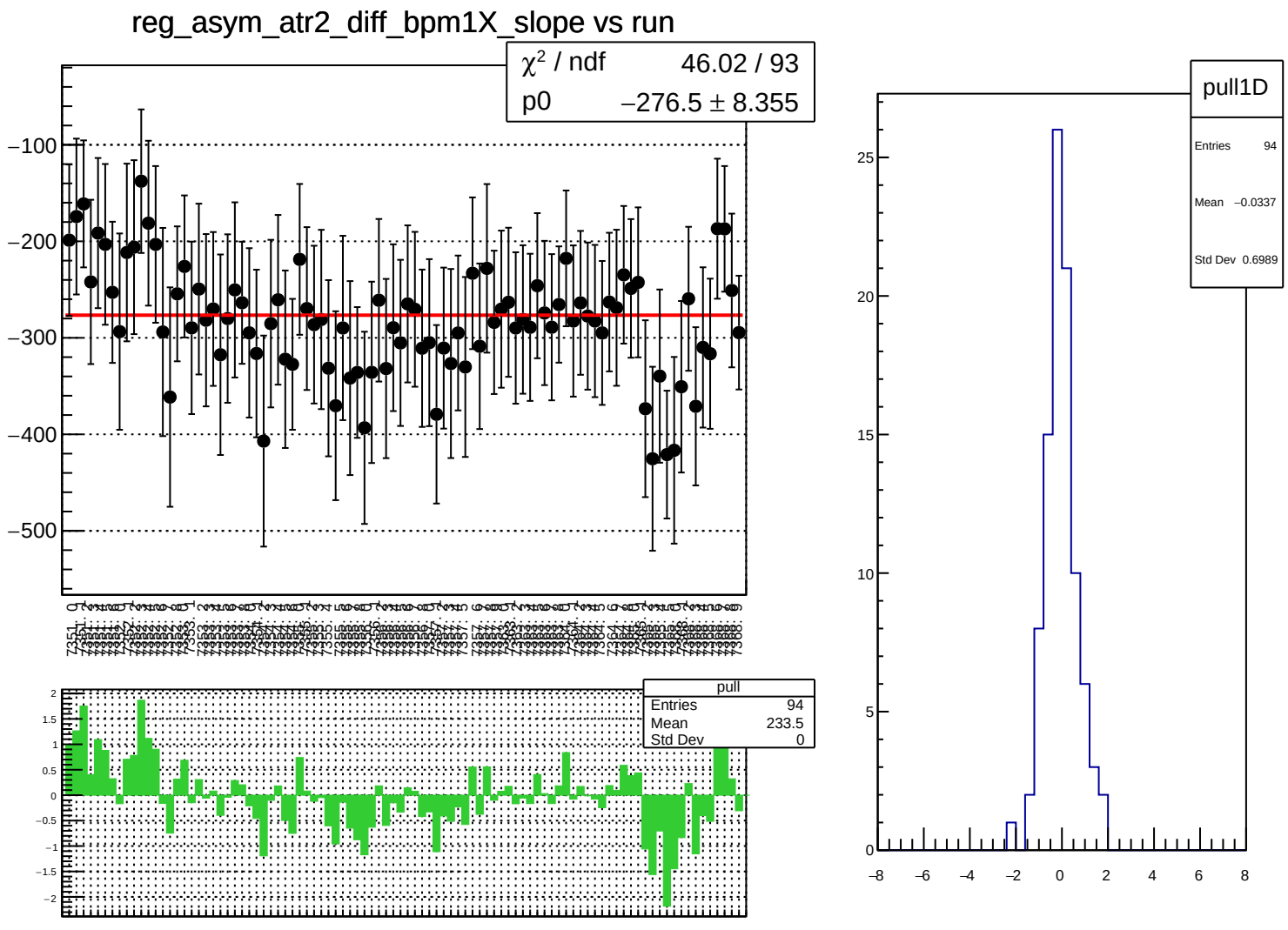

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 99.9 / 93
p0 −12.52 ± 2.029
pull
Entries 94
Mean −126.7
Std Dev 0

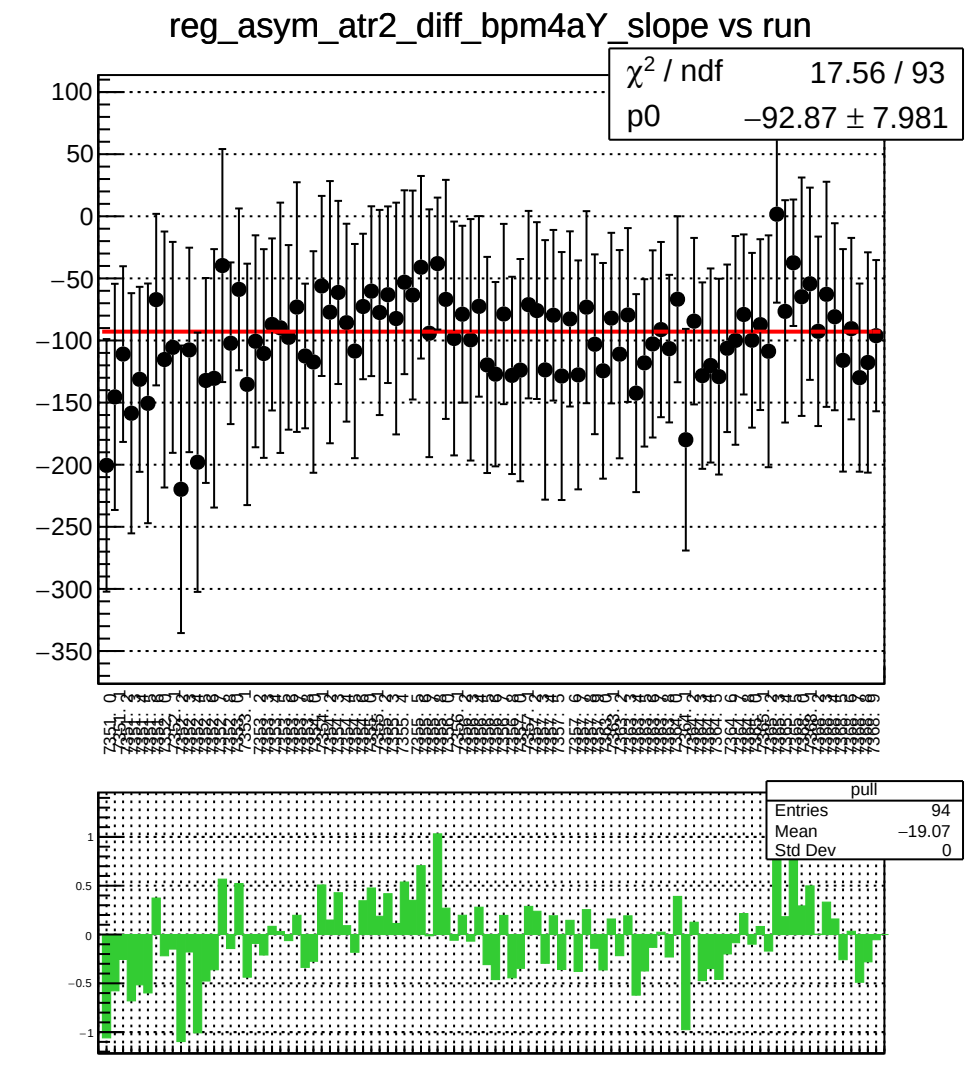

pull1D
Entries 94
Mean −0.007046
Std Dev 1.031

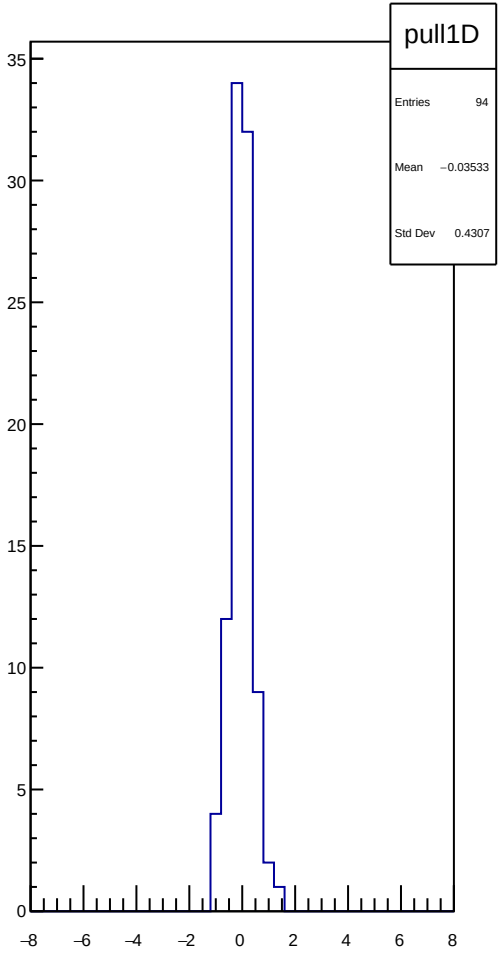

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 116.2 / 93
p0 −14.46 ± 2.083
pull
Entries 94
Mean 245.7
Std Dev 0

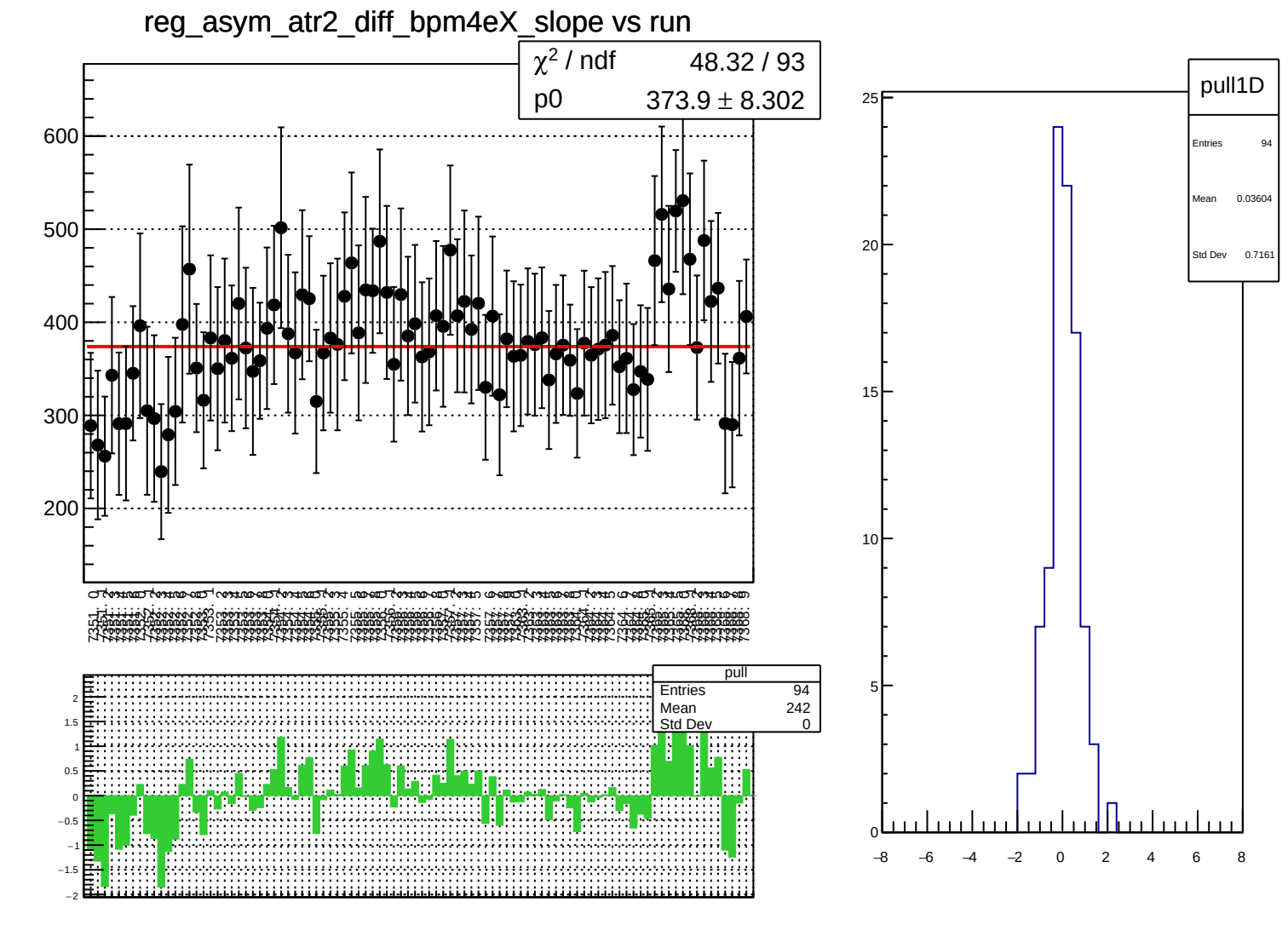

pull1D
Entries 94
Mean 0.01195
Std Dev 1.112

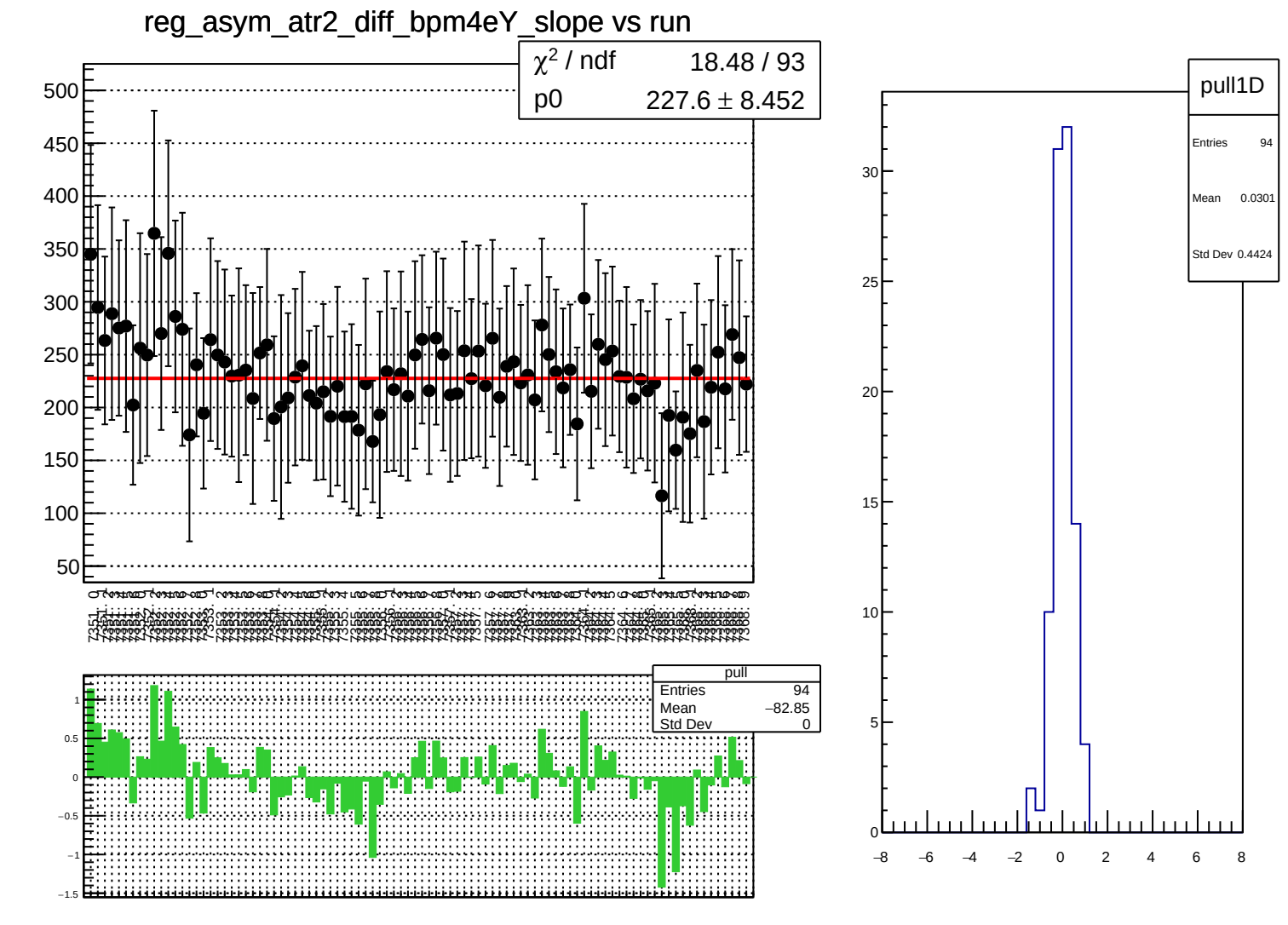

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 294.5 / 93
p0 −15.32 ± 0.09603
pull
Entries 94
Mean 4670
Std Dev 0
pull1D
Entries 94
Mean −0.004862
Std Dev 1.77

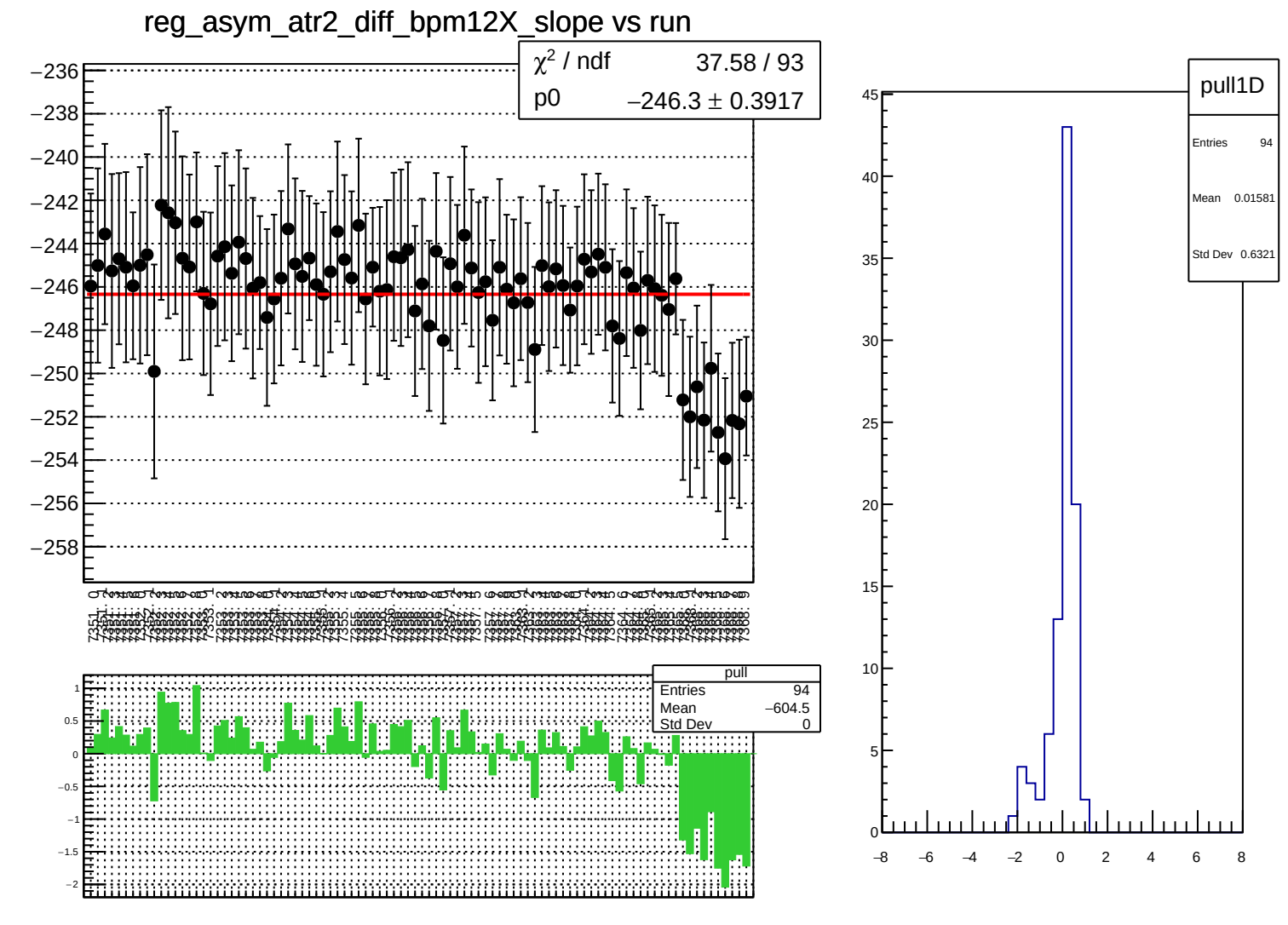

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 46.02 / 93
p0 −276.5 ± 8.355
−100
−200
−300
−400
−500
pull
Entries 94
Mean 233.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean −0.0337
Std Dev 0.6989
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

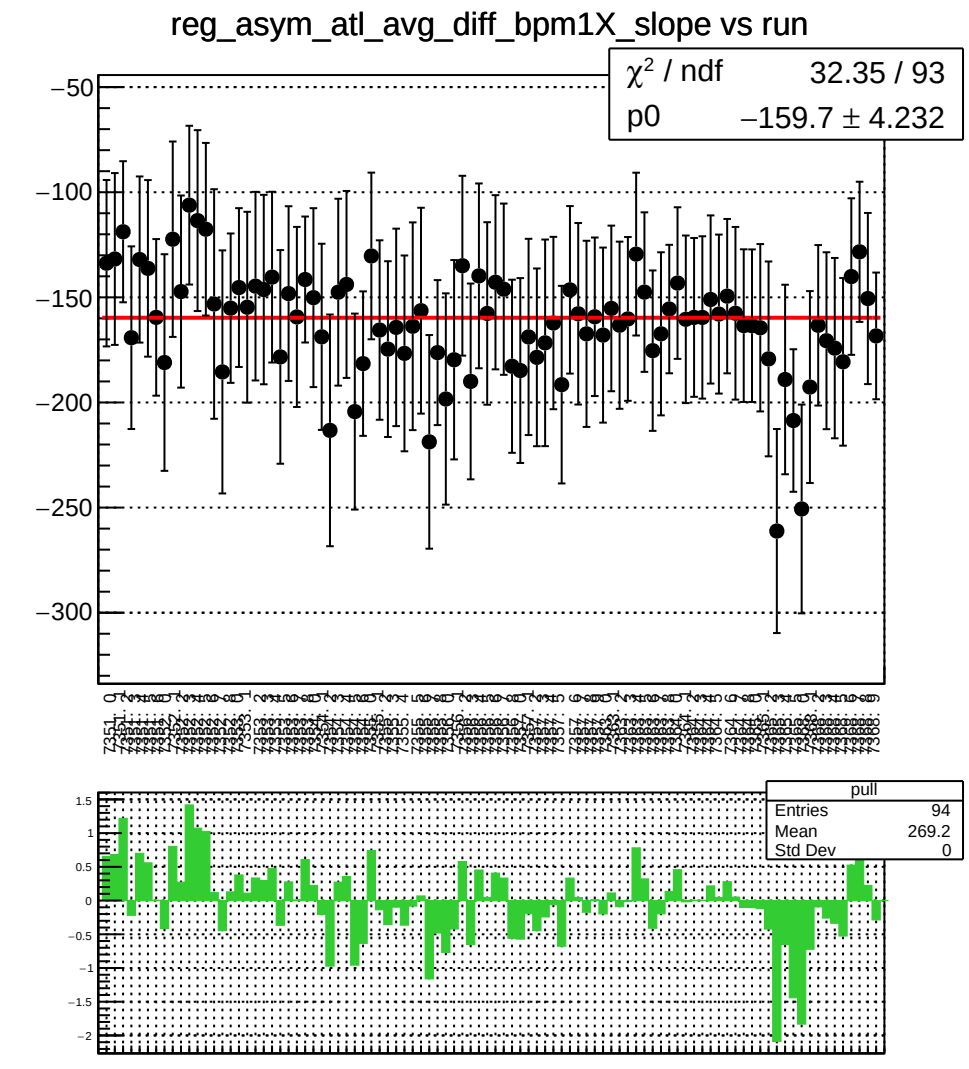

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 17.56 / 93
p0 −92.87 ± 7.981
pull
Entries 94
Mean −19.07
Std Dev 0

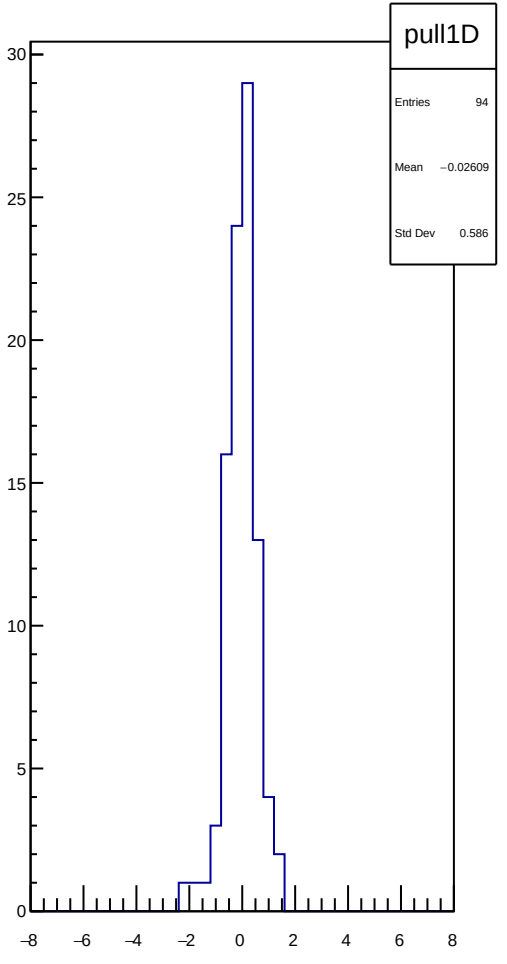

pull1D
Entries 94
Mean −0.03533
Std Dev 0.4307

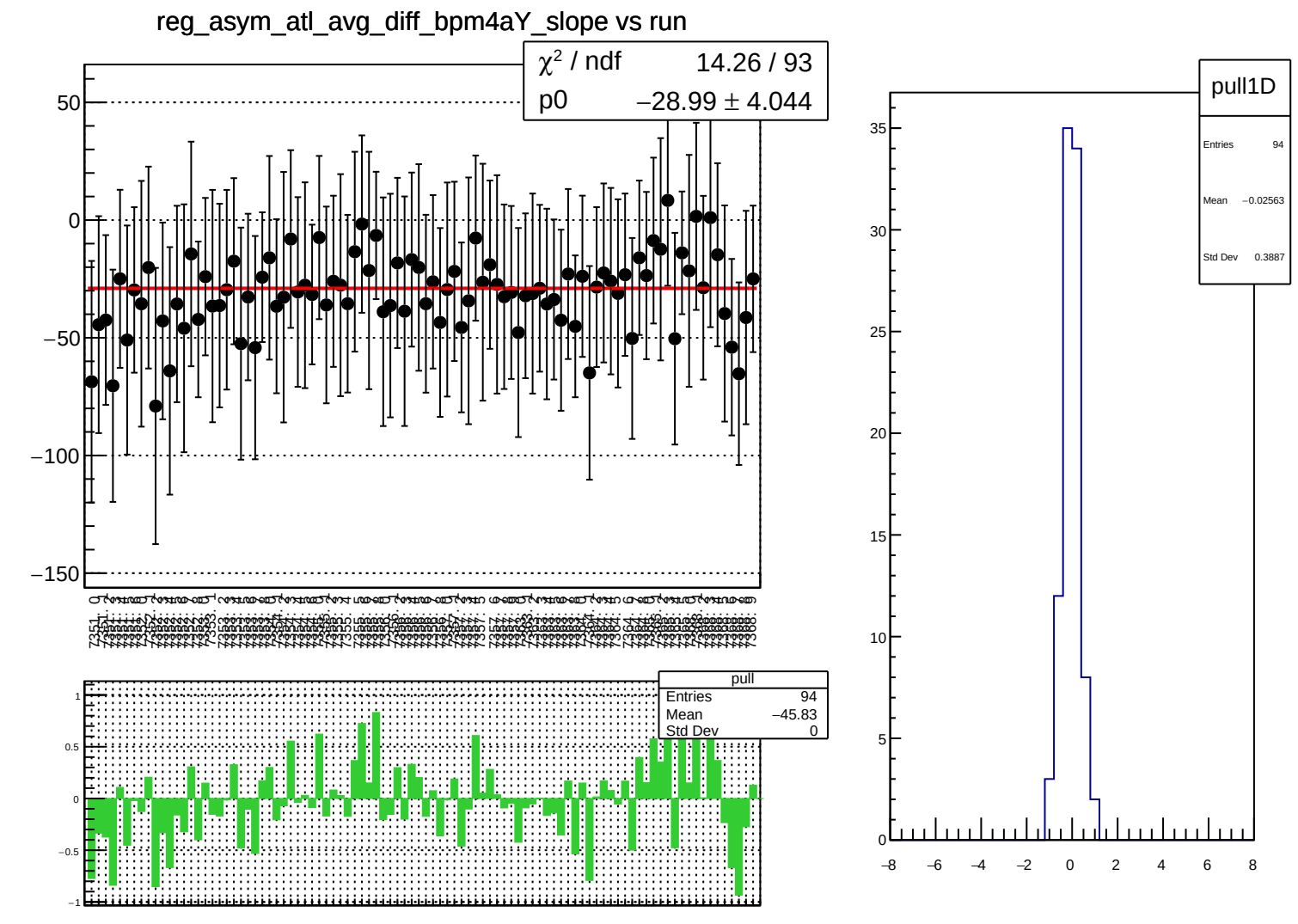

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 48.32 / 93
p0 373.9 ± 8.302
600
500
400
300
200
pull
Entries 94
Mean 242
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean 0.03604
Std Dev 0.7161
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

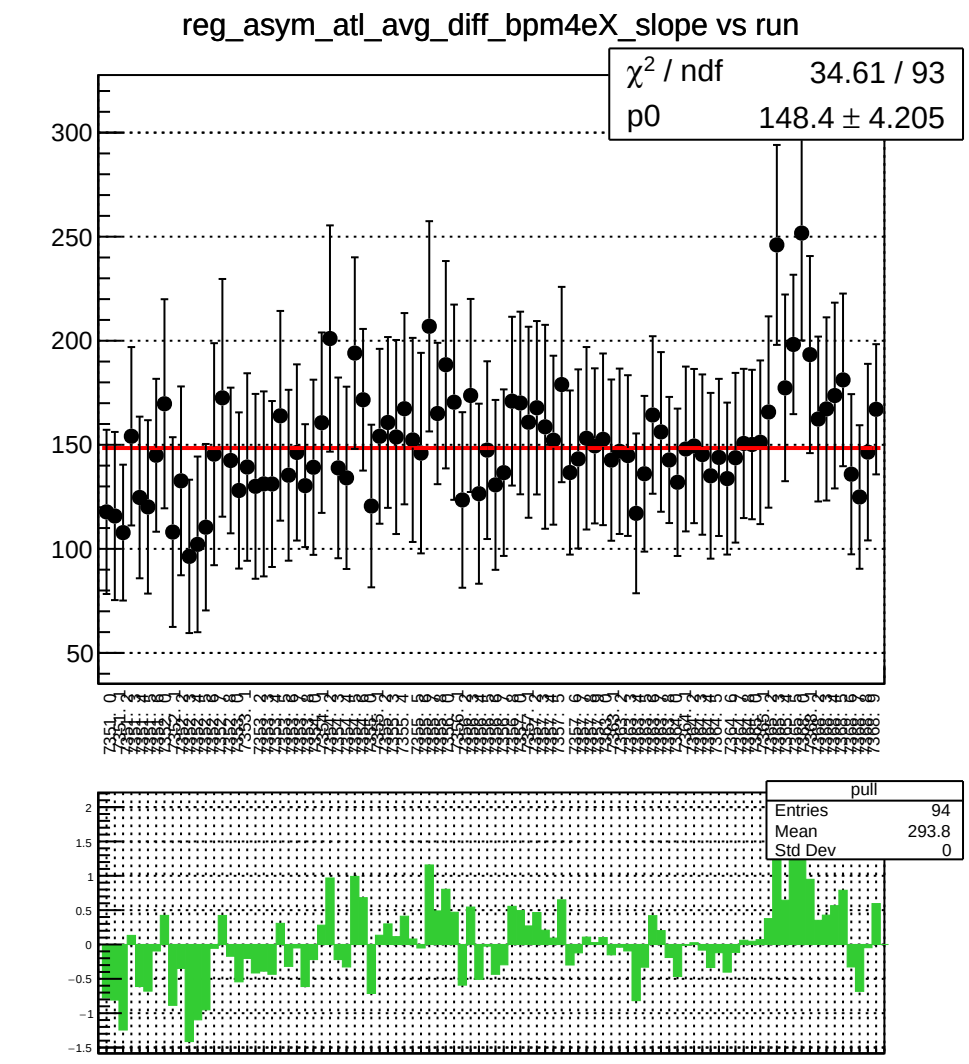

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 18.48 / 93
p0 227.6 ± 8.452
pull
Entries 94
Mean −82.85
Std Dev 0
pull1D
Entries 94
Mean 0.0301
Std Dev 0.4424

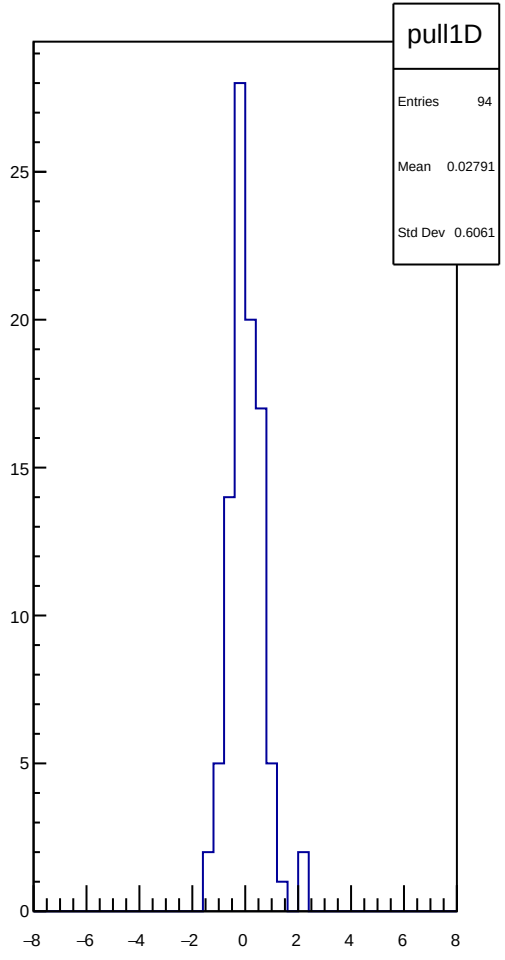

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 37.58 / 93
p0 −246.3 ± 0.3917
pull
Entries 94
Mean −604.5
Std Dev 0
pull1D
Entries 94
Mean 0.01581
Std Dev 0.6321

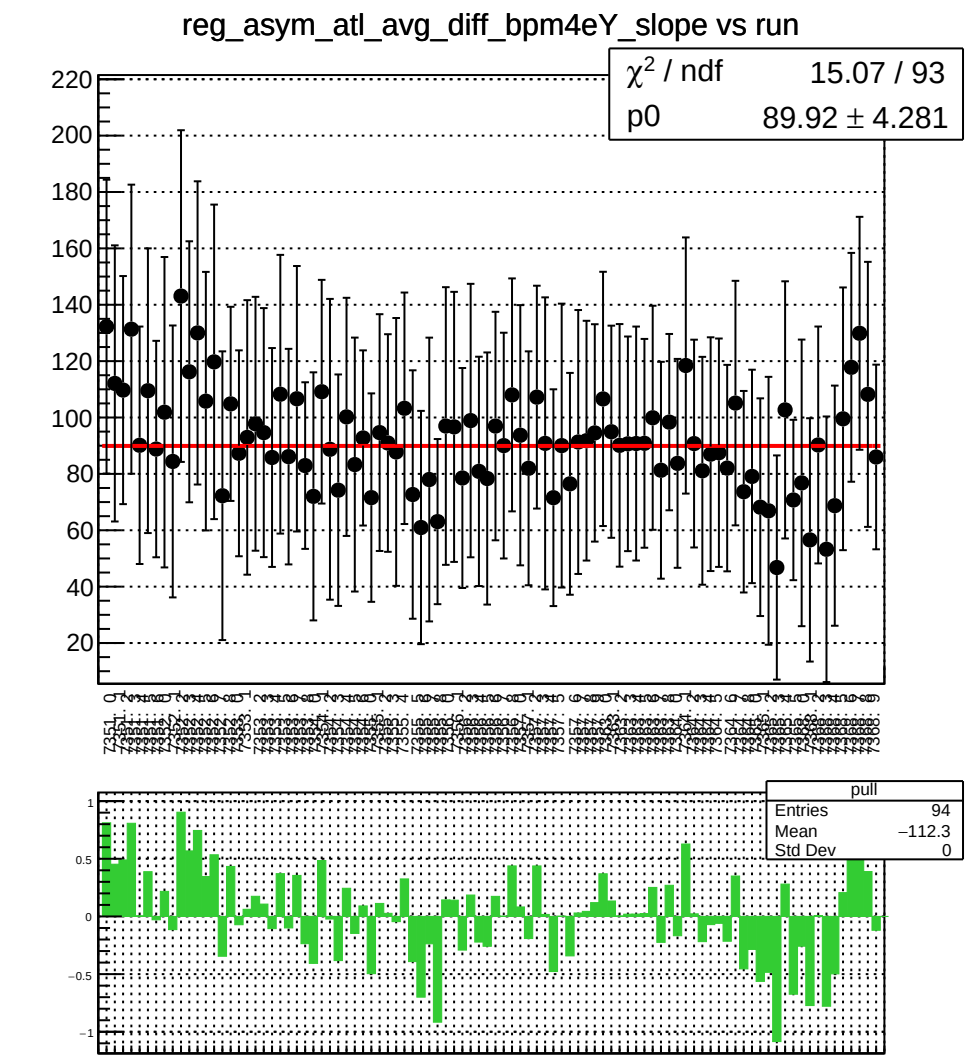

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 32.35 / 93
p0 −159.7 ± 4.232
−50
−100
−150
−200
−250
−300
pull
Entries 94
Mean 269.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

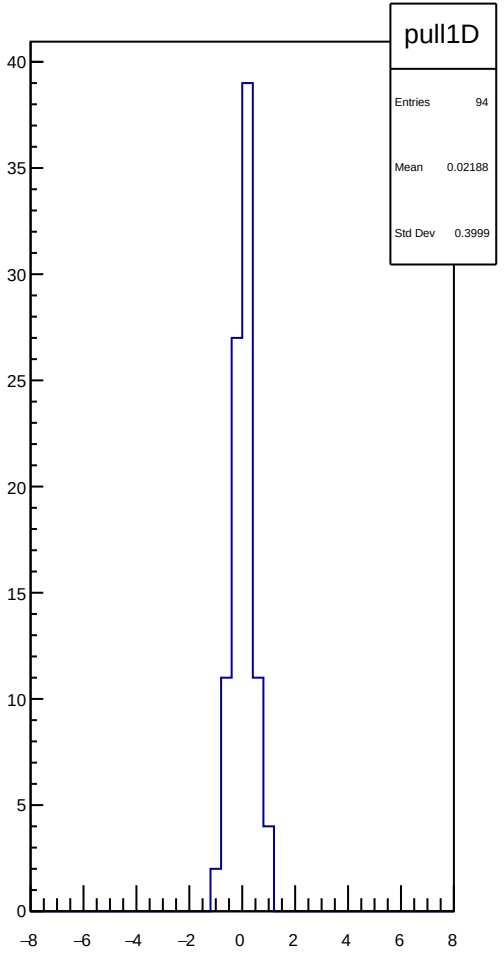

pull1D
Entries 94
Mean −0.02609
Std Dev 0.586
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

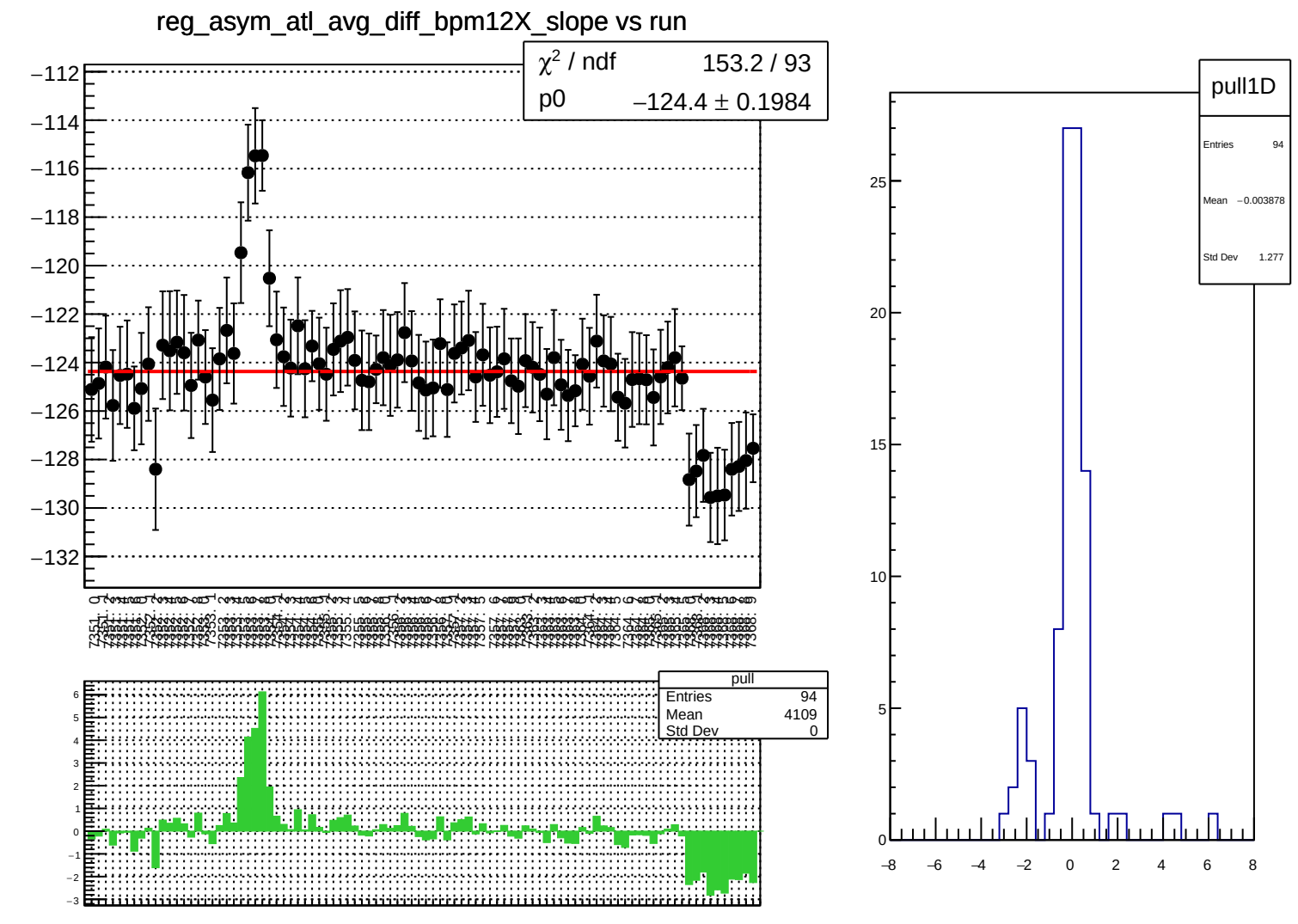

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 14.26 / 93
p0 −28.99 ± 4.044
50
0
−50
−100
−150
pull
Entries 94
Mean −45.83
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 94
Mean −0.02563
Std Dev 0.3887
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

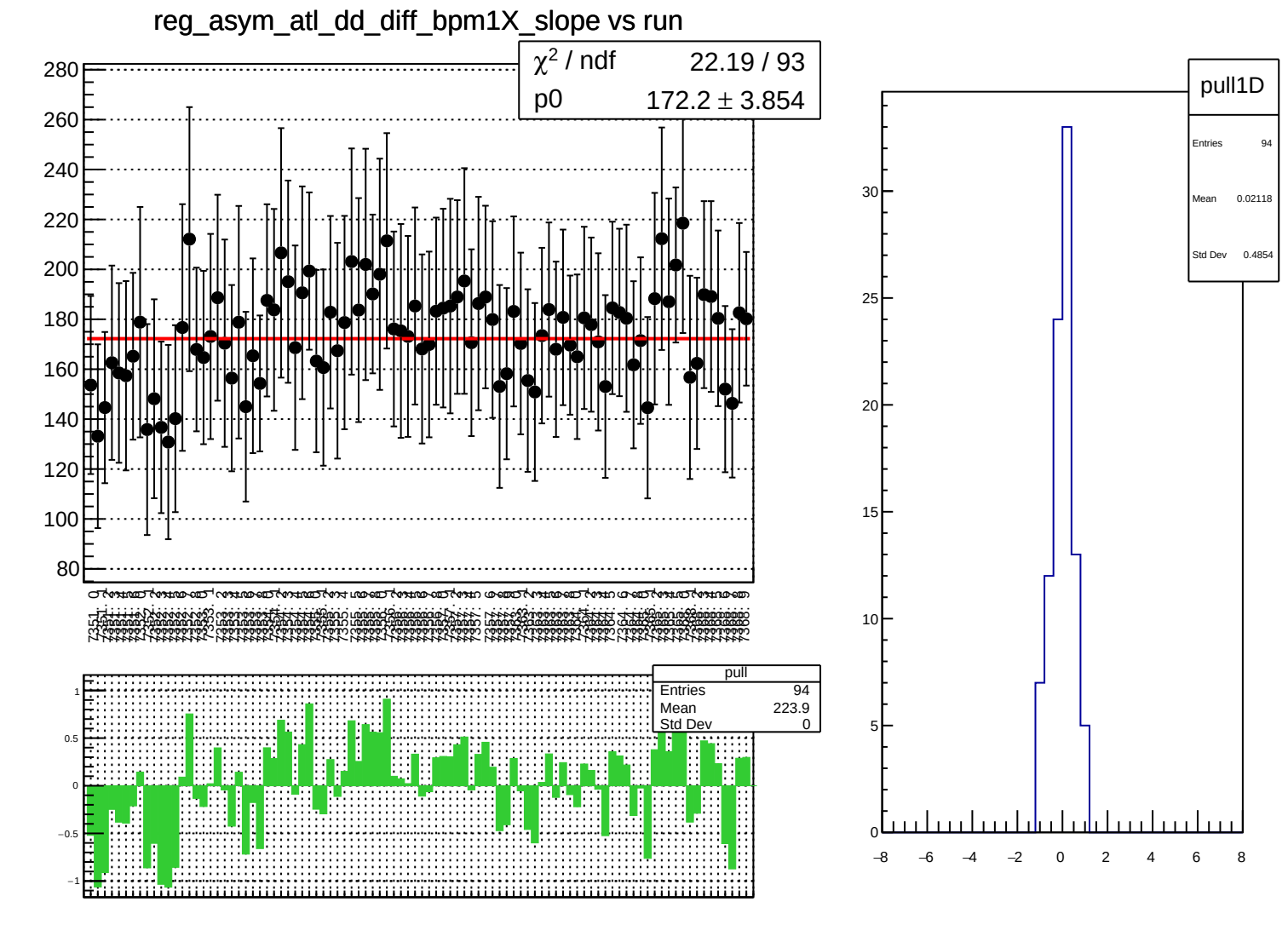

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 34.61 / 93
p0 148.4 ± 4.205
300
250
200
150
100
50
pull
Entries 94
Mean 293.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

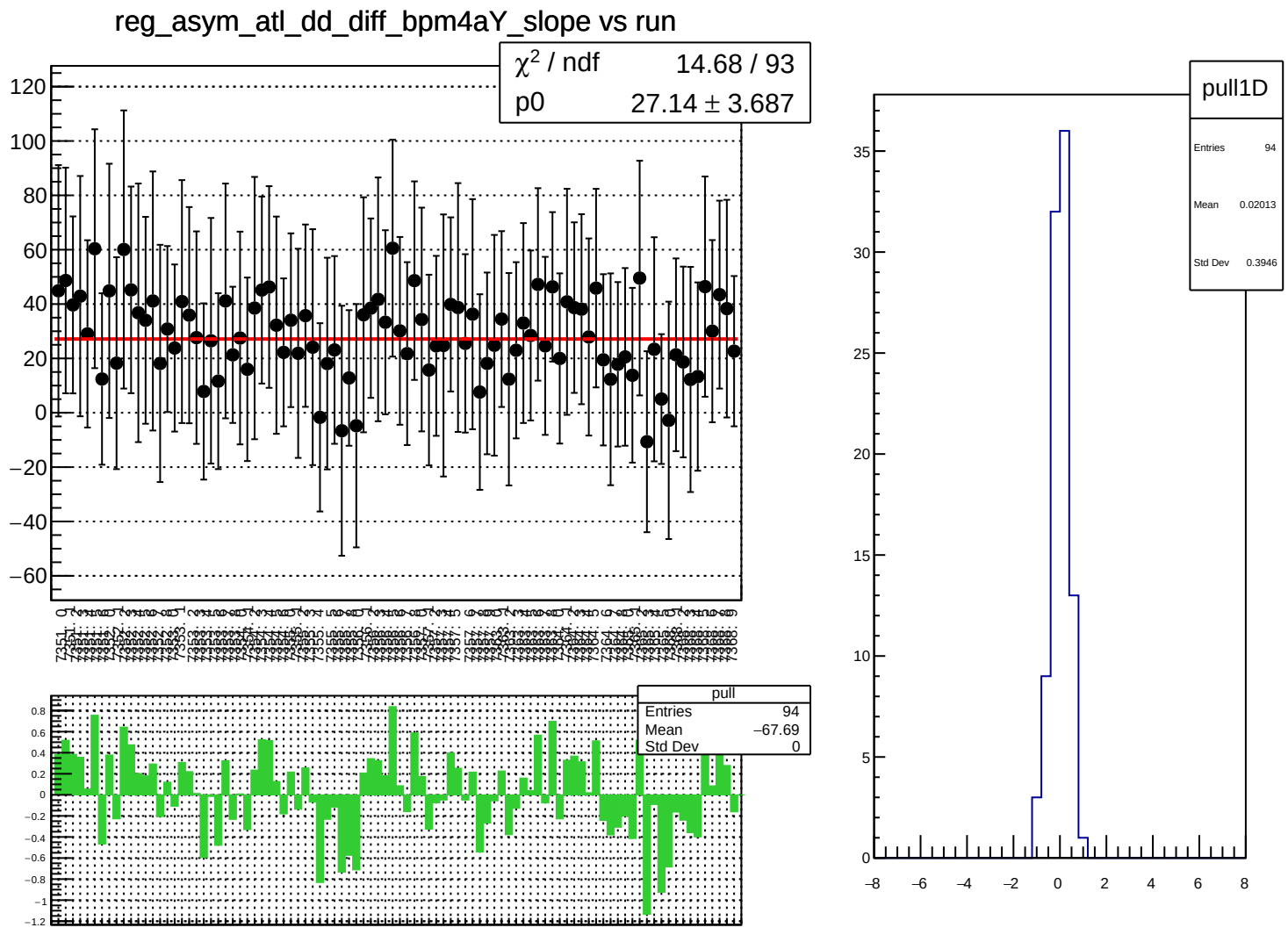

pull1D
Entries 94
Mean 0.02791
Std Dev 0.6061
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

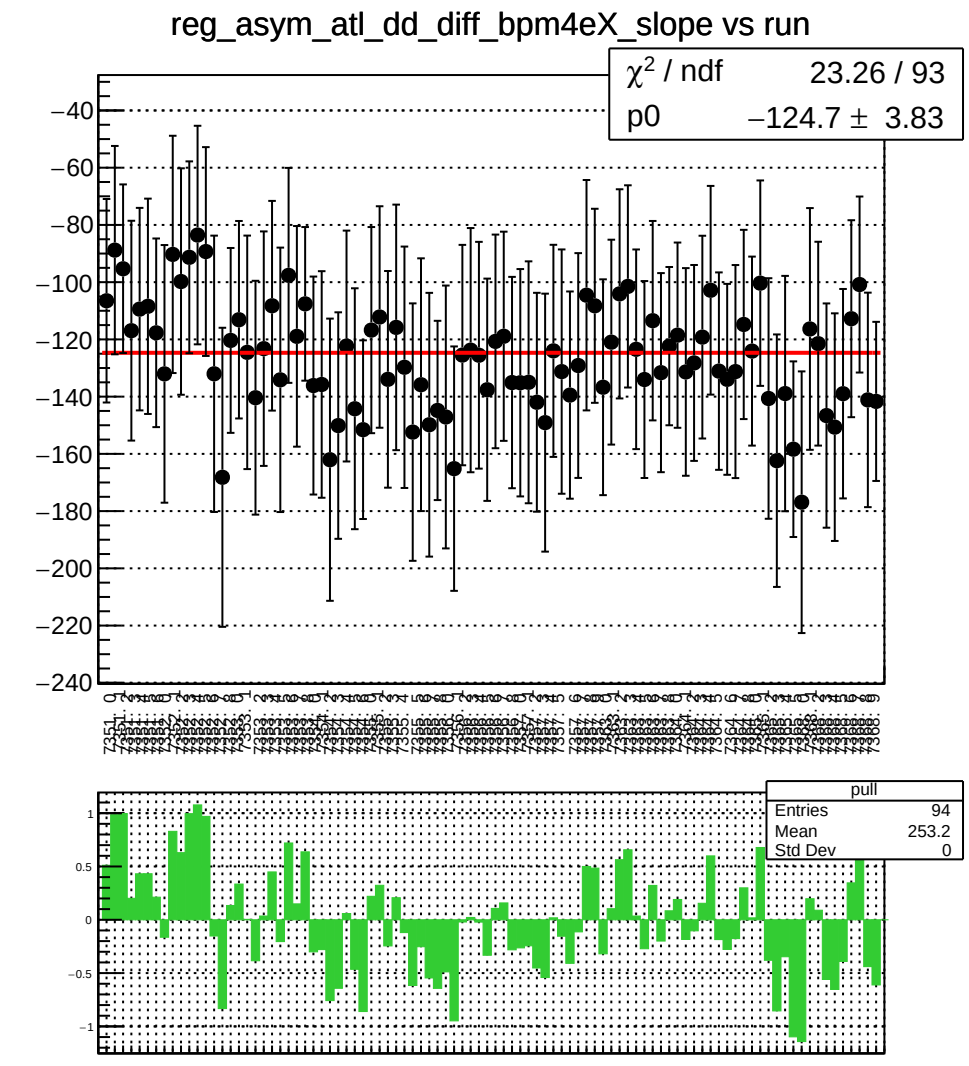

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 15.07 / 93
p0 89.92 ± 4.281
pull
Entries 94
Mean −112.3
Std Dev 0

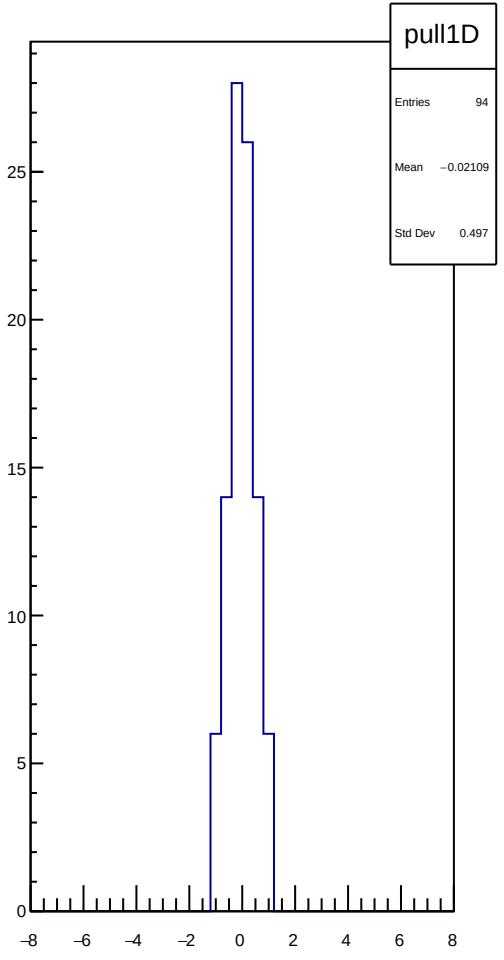

pull1D
Entries 94
Mean 0.02188
Std Dev 0.3999

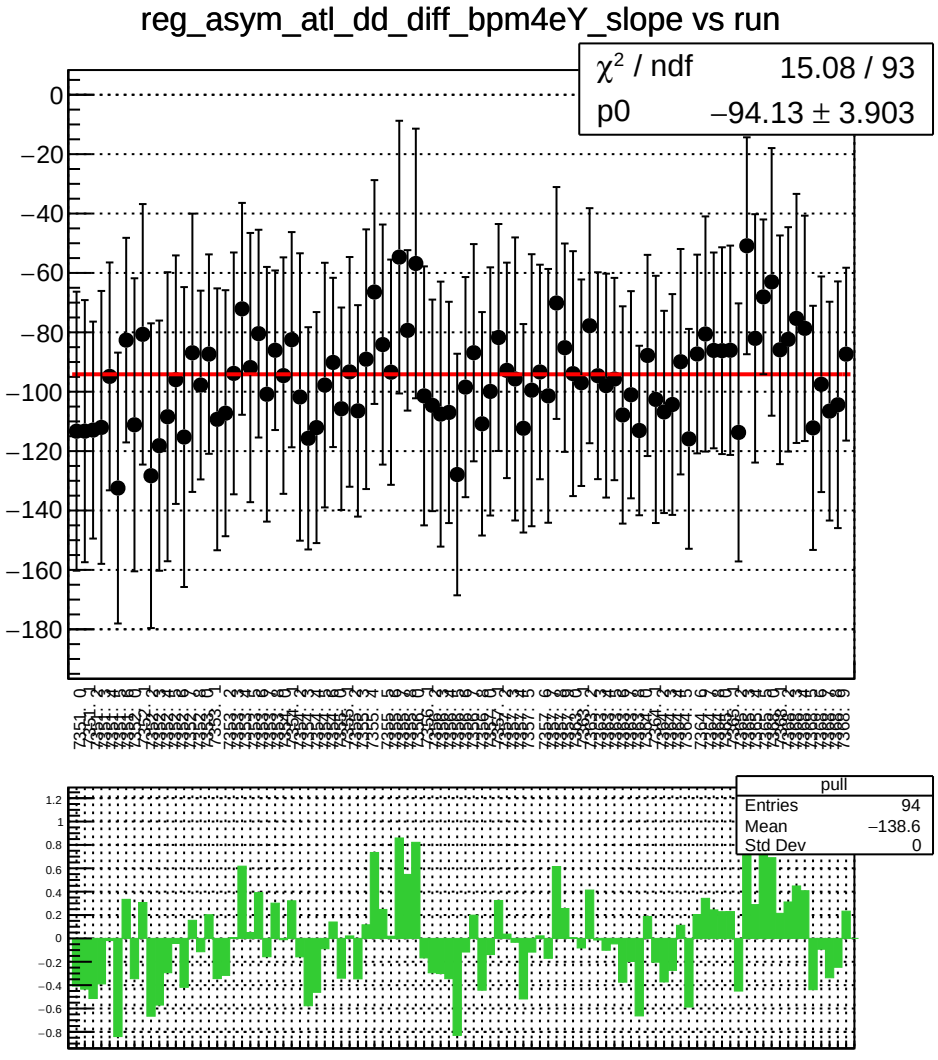

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 153.2 / 93
p0 −124.4 ± 0.1984
pull
Entries 94
Mean 4109
Std Dev 0
pull1D
Entries 94
Mean −0.003878
Std Dev 1.277

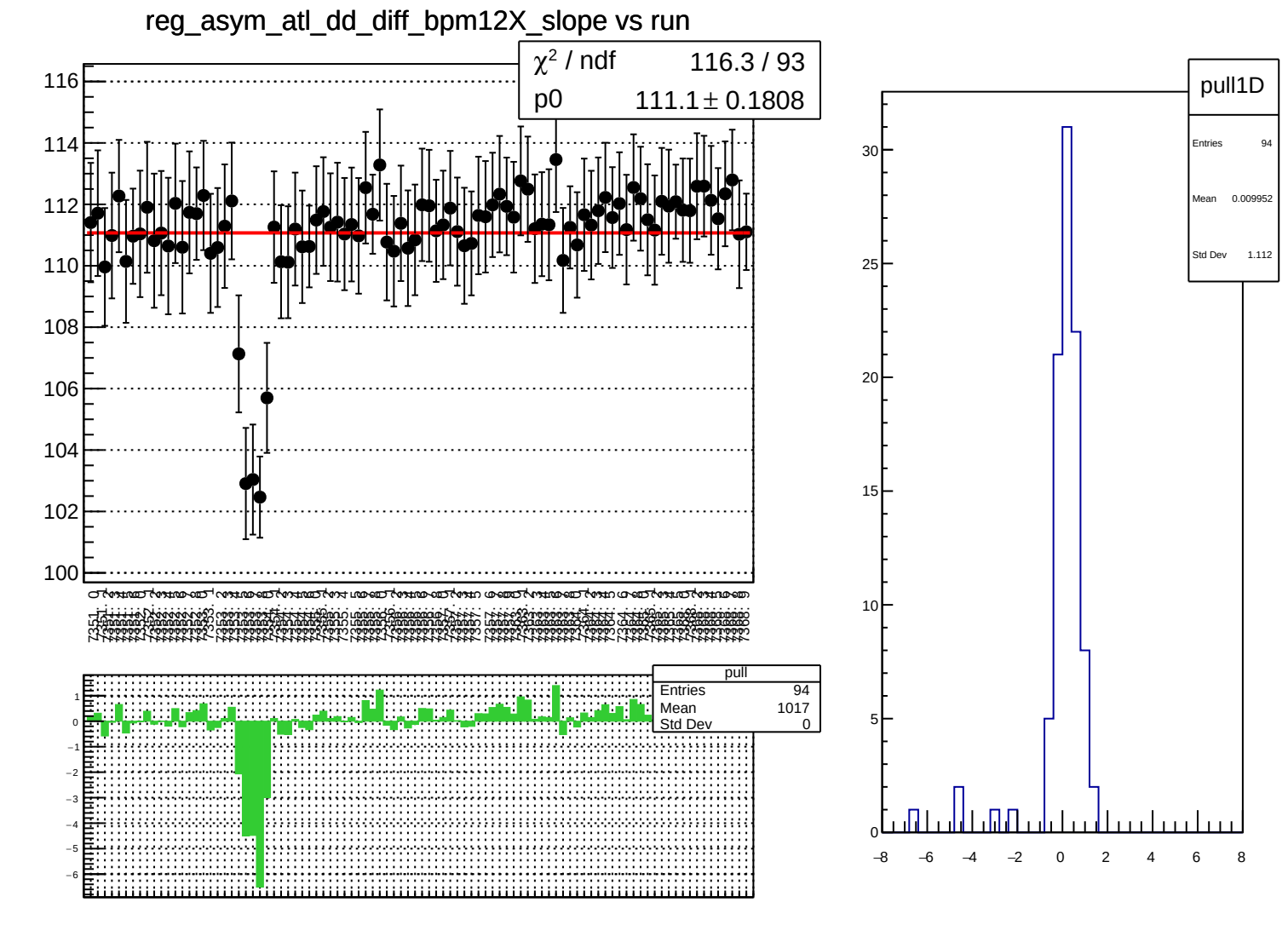

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ^2 / ndf 22.19 / 93
p0 172.2 ± 3.854
pull
Entries 94
Mean 223.9
Std Dev 0
pull1D
Entries 94
Mean 0.02118
Std Dev 0.4854

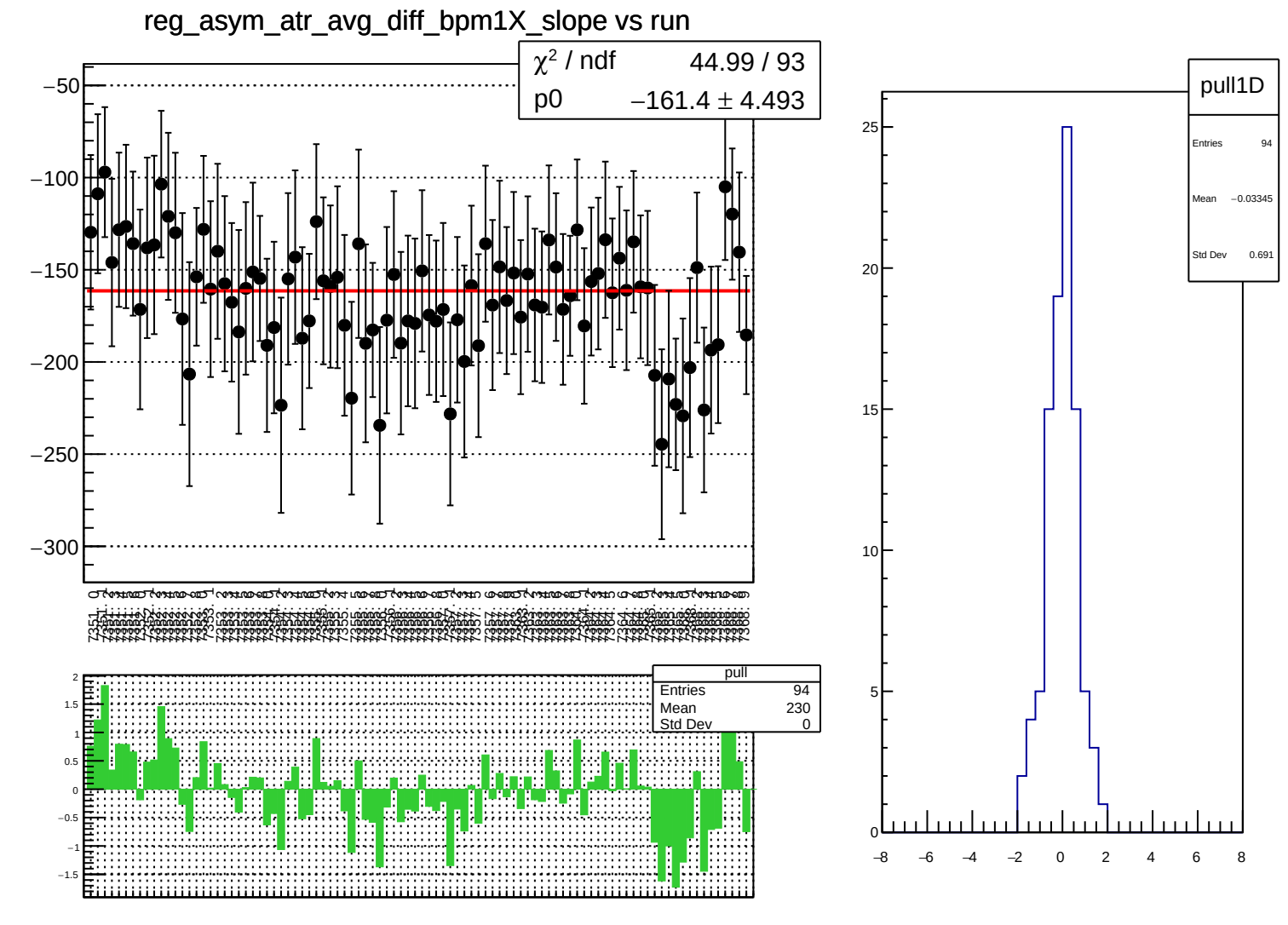

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.68 / 93
p0 27.14 ± 3.687
pull
Entries 94
Mean −67.69
Std Dev 0
pull1D
Entries 94
Mean 0.02013
Std Dev 0.3946

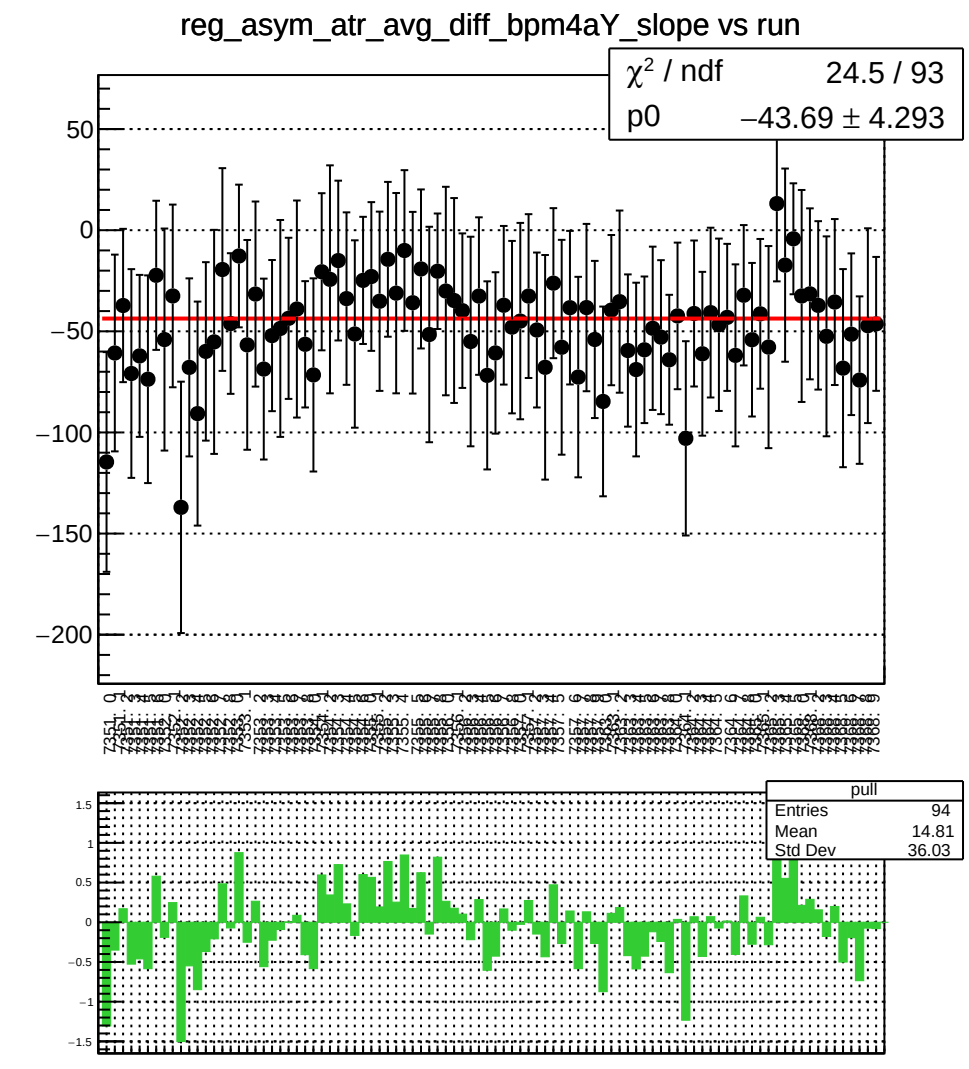

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 23.26 / 93
p0 −124.7 ± 3.83
pull
Entries 94
Mean 253.2
Std Dev 0

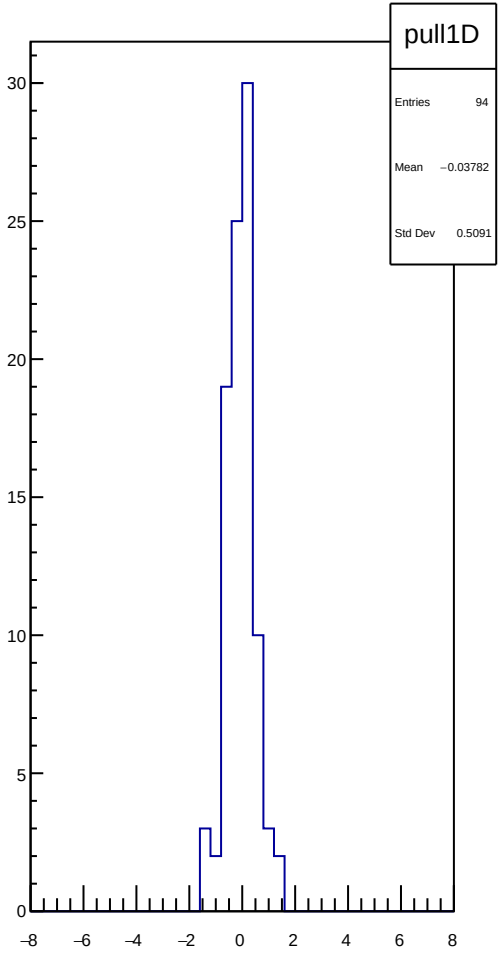

pull1D
Entries 94
Mean −0.02109
Std Dev 0.497

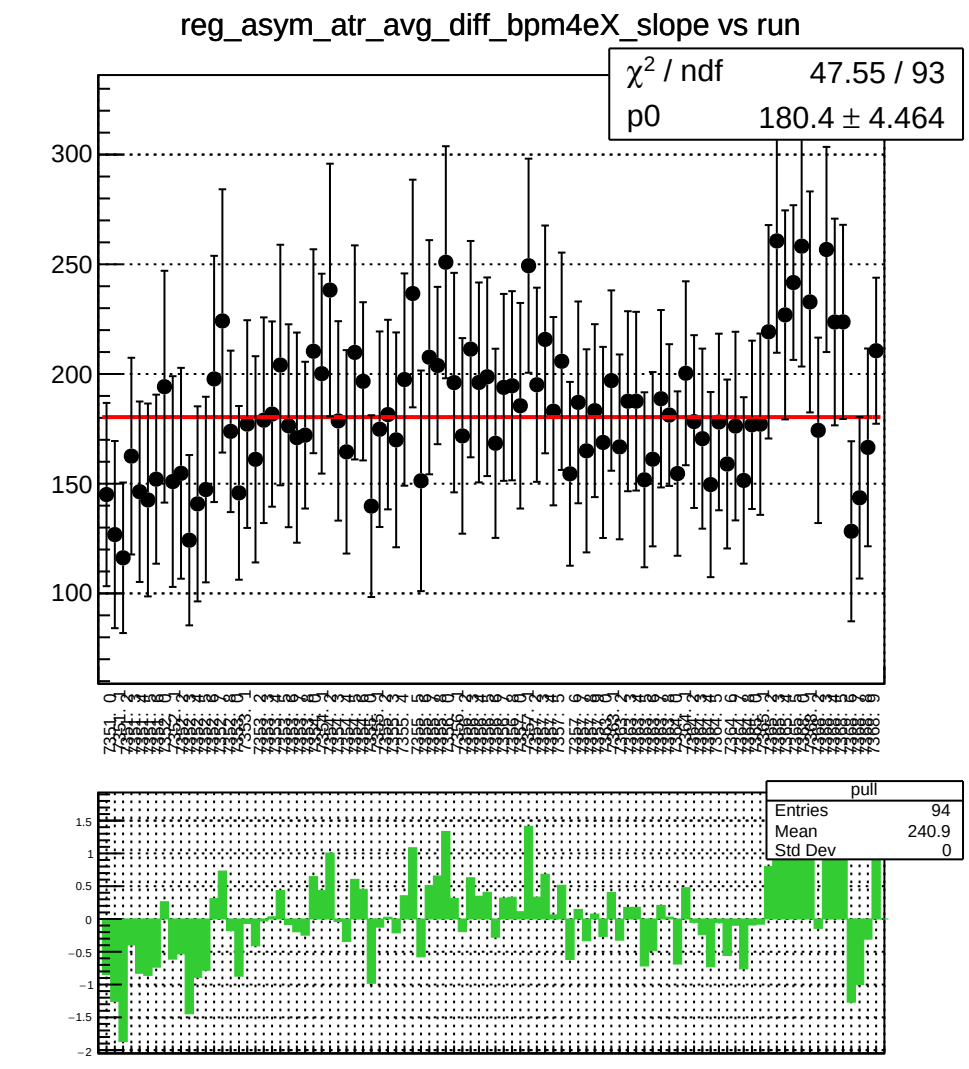

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 15.08 / 93
p0 −94.13 ± 3.903
pull
Entries 94
Mean −138.6
Std Dev 0
pull1D
Entries 94
Mean −0.01498
Std Dev 0.4002

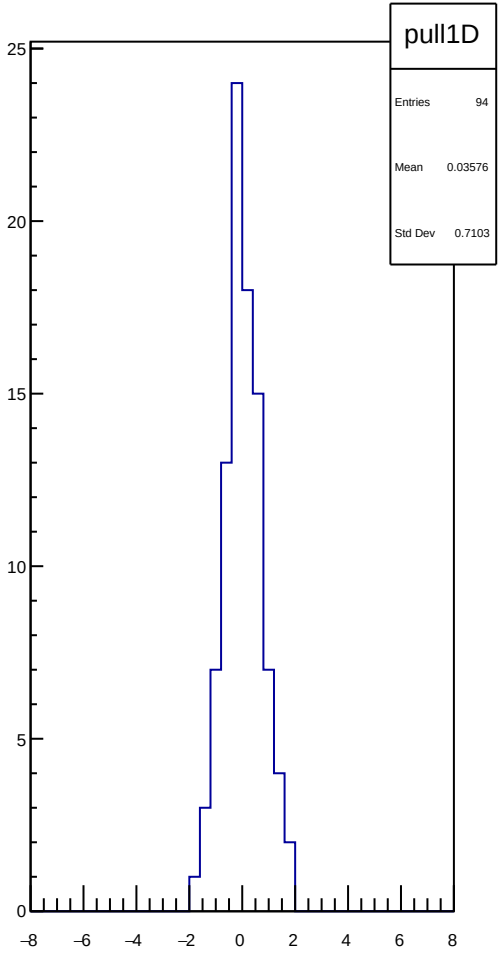

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 116.3 / 93
p0 111.1 ± 0.1808
pull
Entries 94
Mean 1017
Std Dev 0
pull1D
Entries 94
Mean 0.009952
Std Dev 1.112

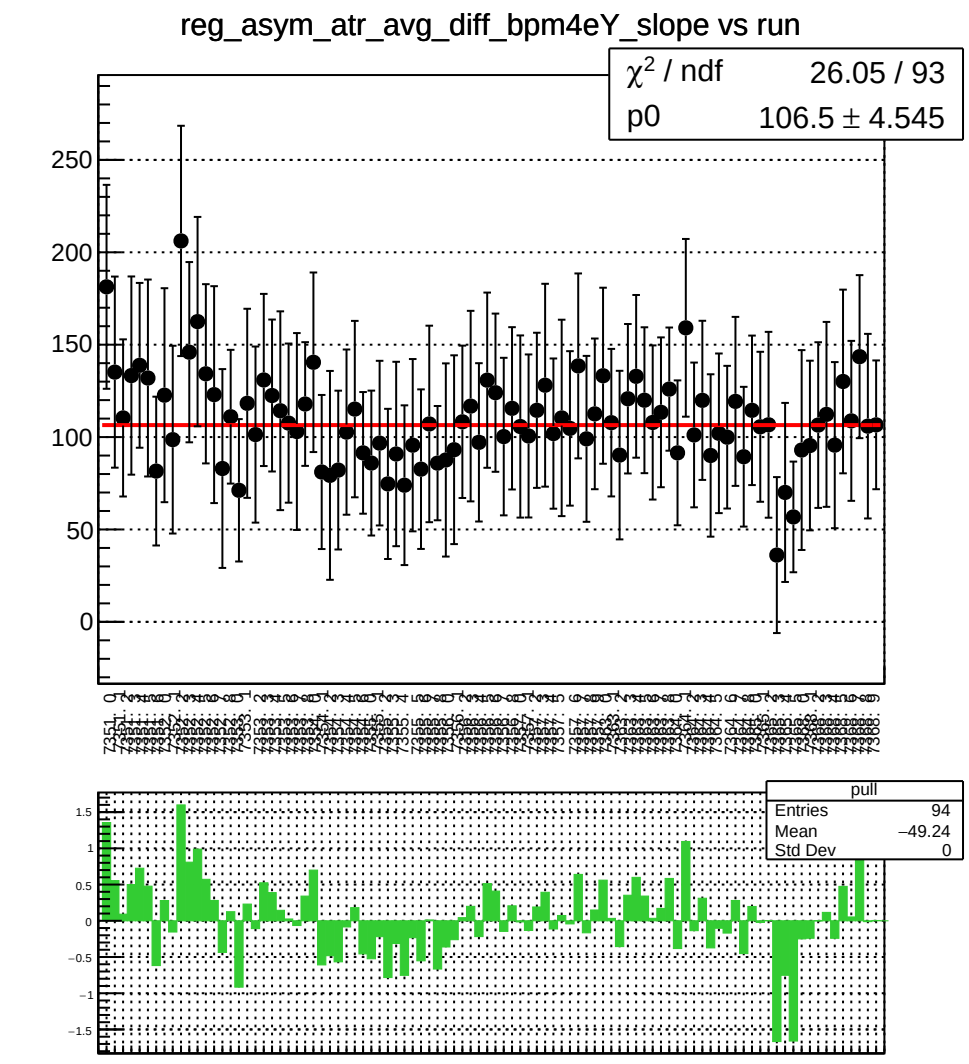

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 44.99 / 93
p0 −161.4 ± 4.493
−50
−100
−150
−200
−250
−300
pull
Entries 94
Mean 230
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 94
Mean −0.03345
Std Dev 0.691
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

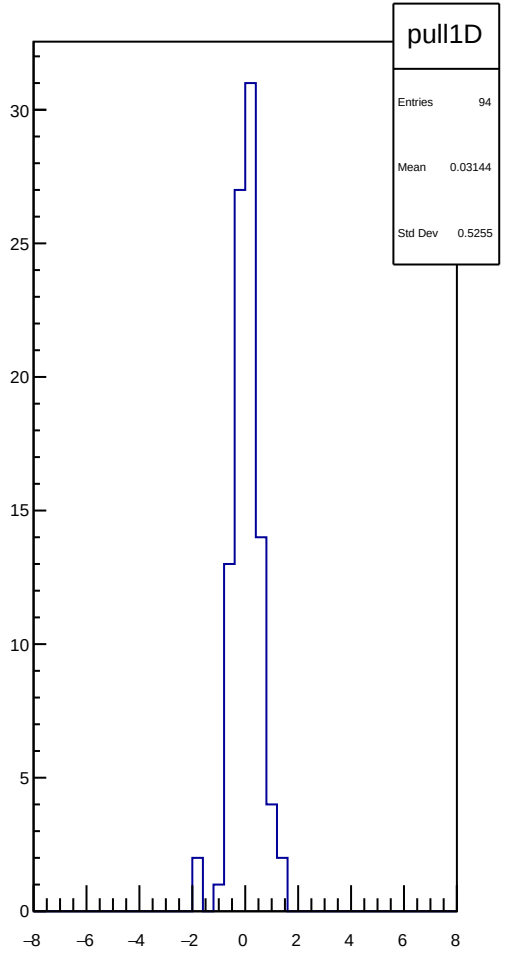

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 24.5 / 93
p0 −43.69 ± 4.293
50
0
−50
−100
−150
−200
pull
Entries 94
Mean 14.81
Std Dev 36.03
1.5
1
0.5
0
−0.5
−1
−1.5

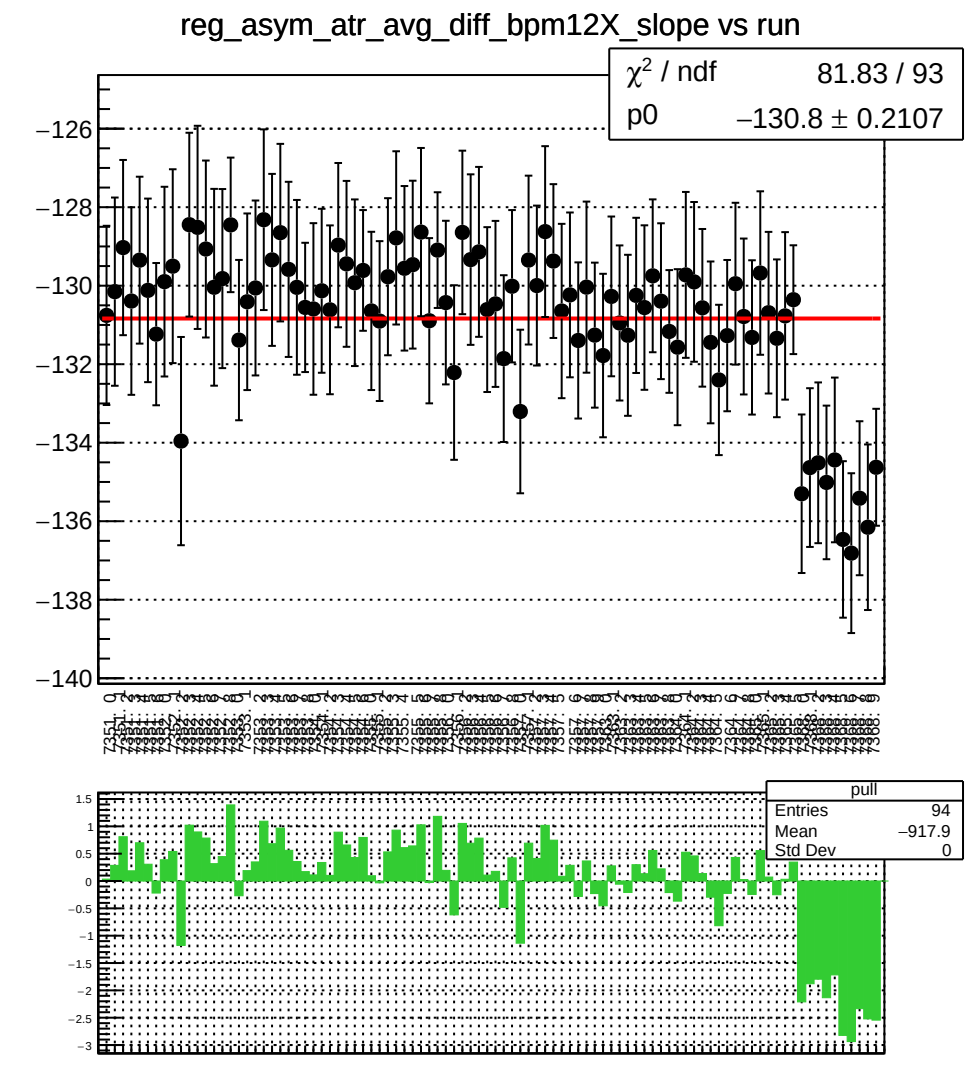

pull1D
Entries 94
Mean −0.03782
Std Dev 0.5091
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

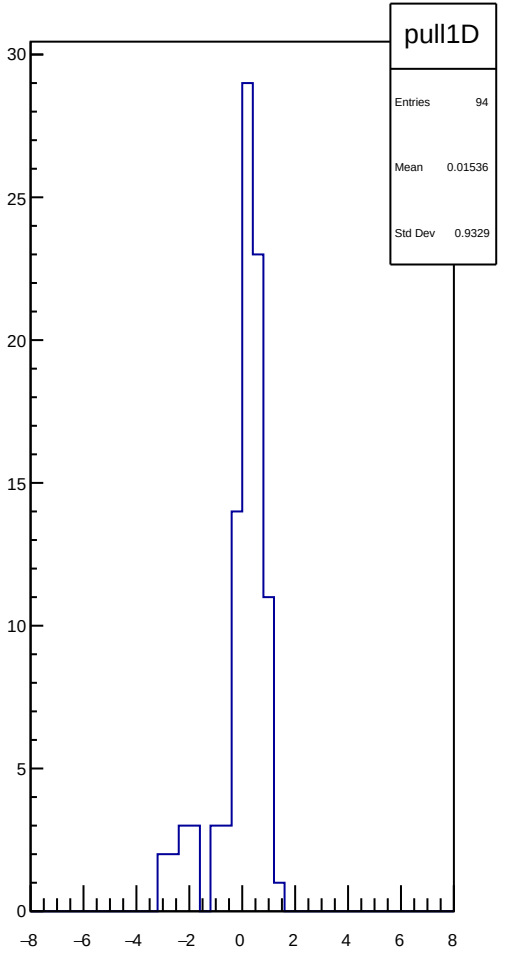

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 47.55 / 93
p0 180.4 ± 4.464
300
250
200
150
100
pull
Entries 94
Mean 240.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

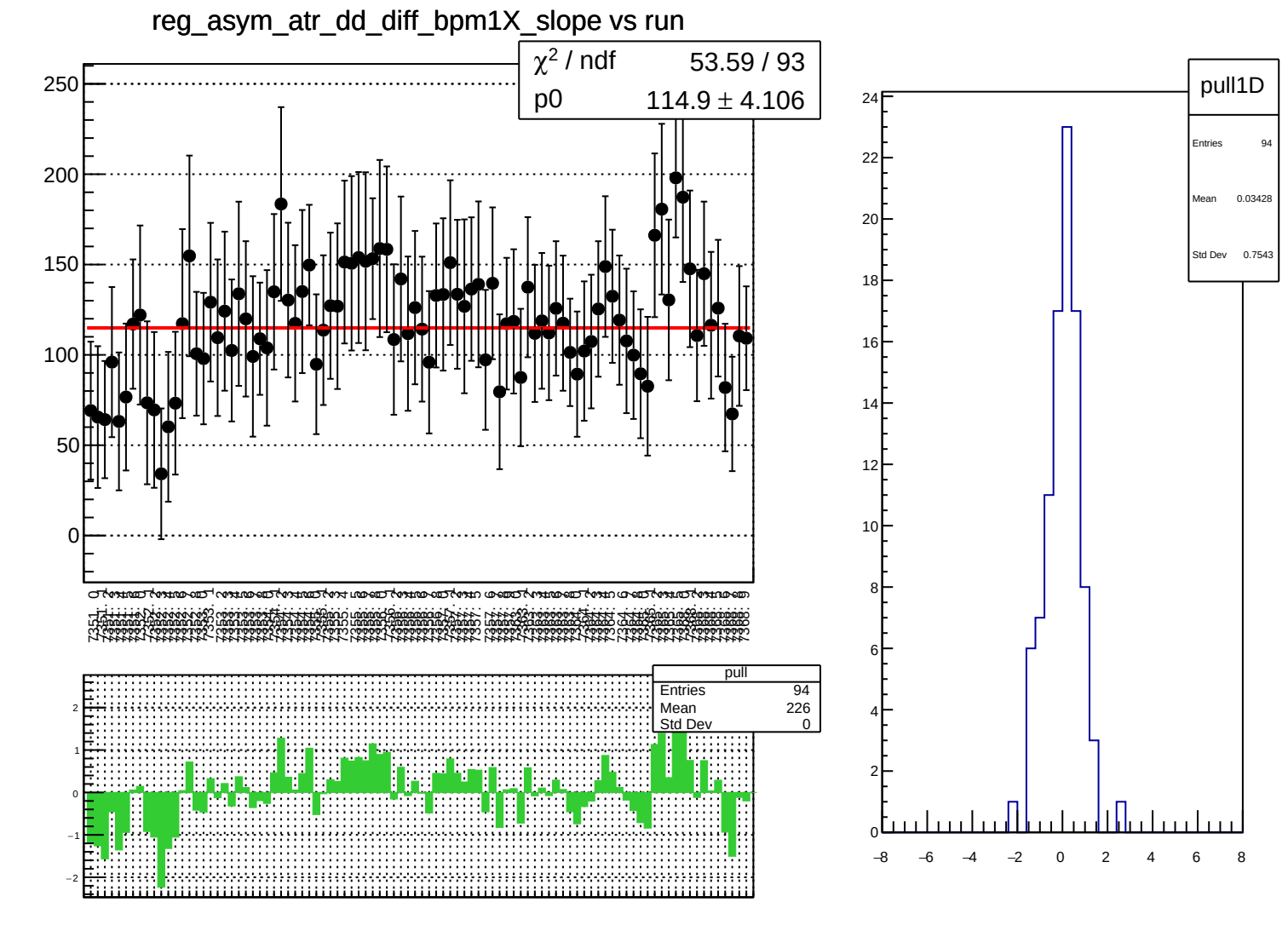

pull1D
Entries 94
Mean 0.03576
Std Dev 0.7103
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

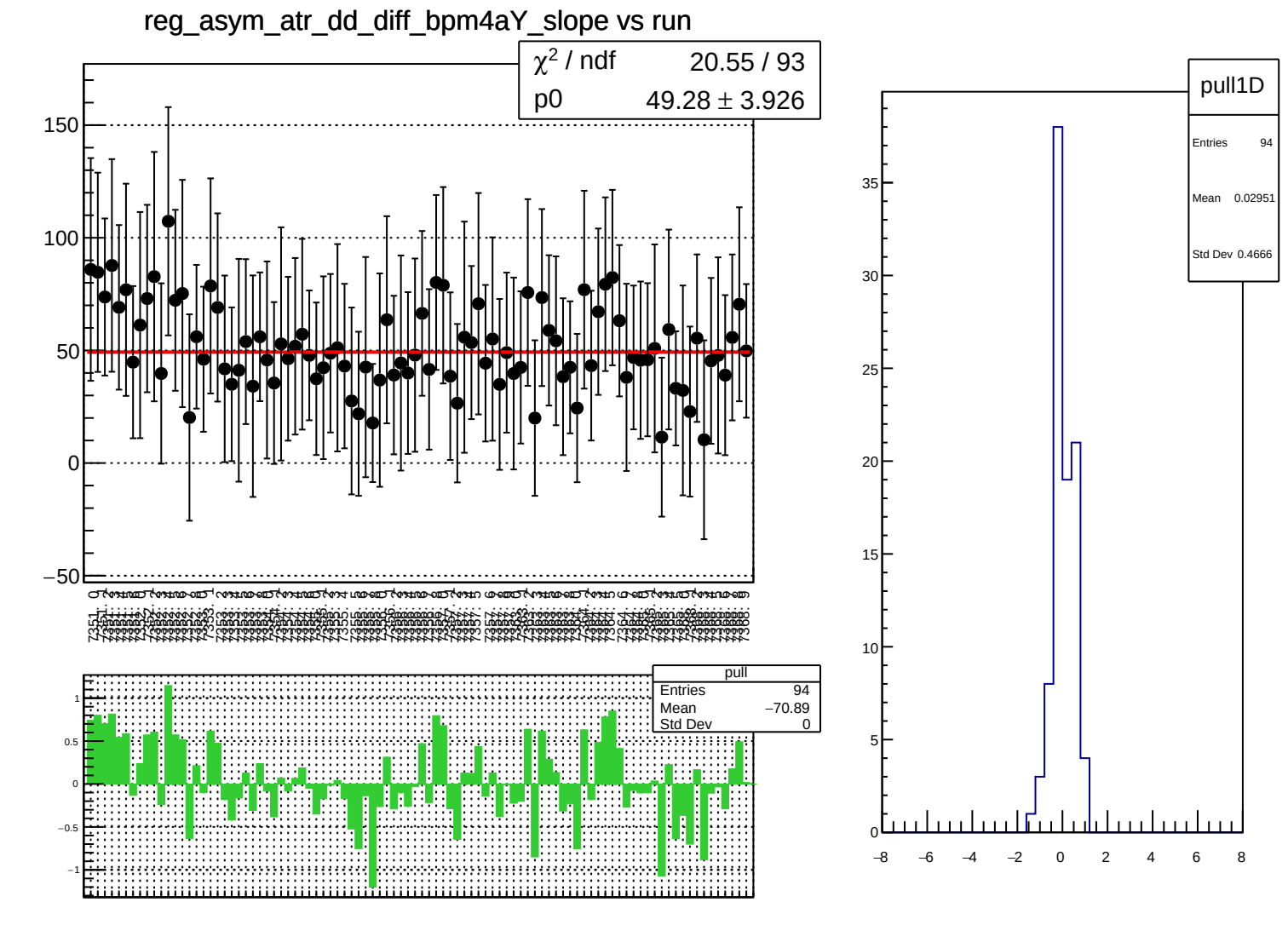

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 26.05 / 93
p0 106.5 ± 4.545
250
200
150
100
50
0
pull
Entries 94
Mean −49.24
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

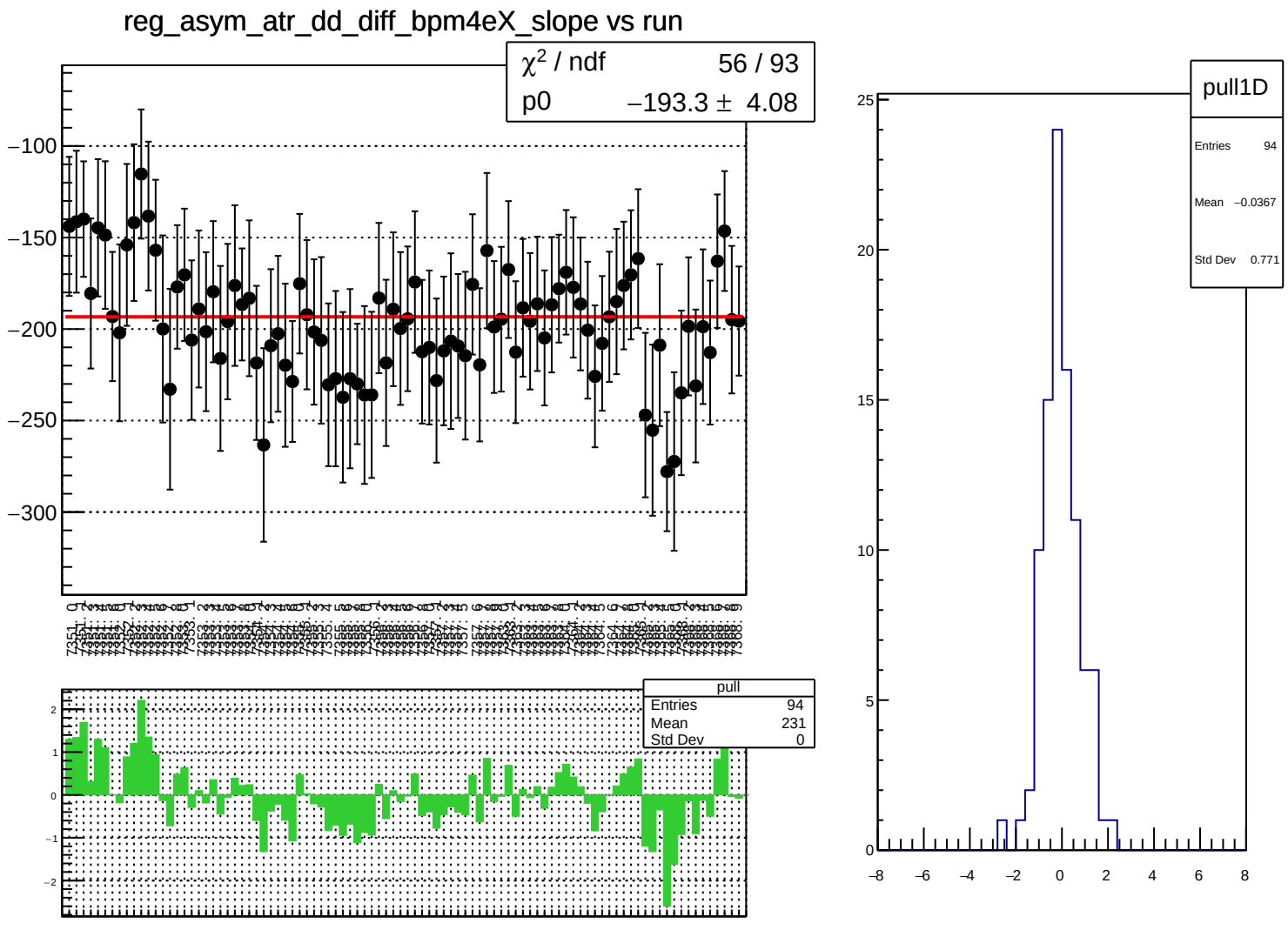

pull1D
Entries 94
Mean 0.03144
Std Dev 0.5255
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

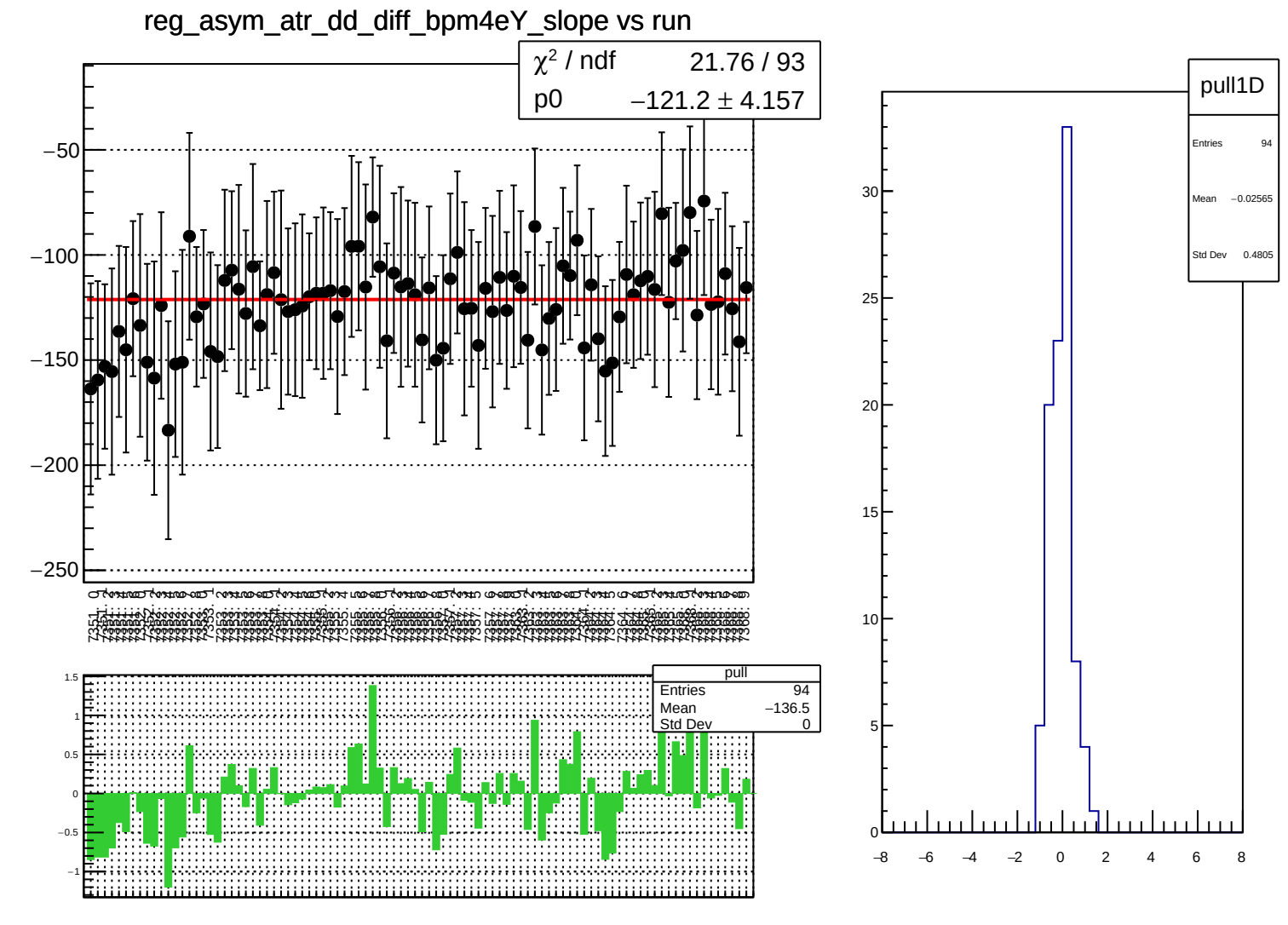

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 81.83 / 93
p0 −130.8 ± 0.2107
−126
−128
−130
−132
−134
−136
−138
−140
pull
Entries 94
Mean −917.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

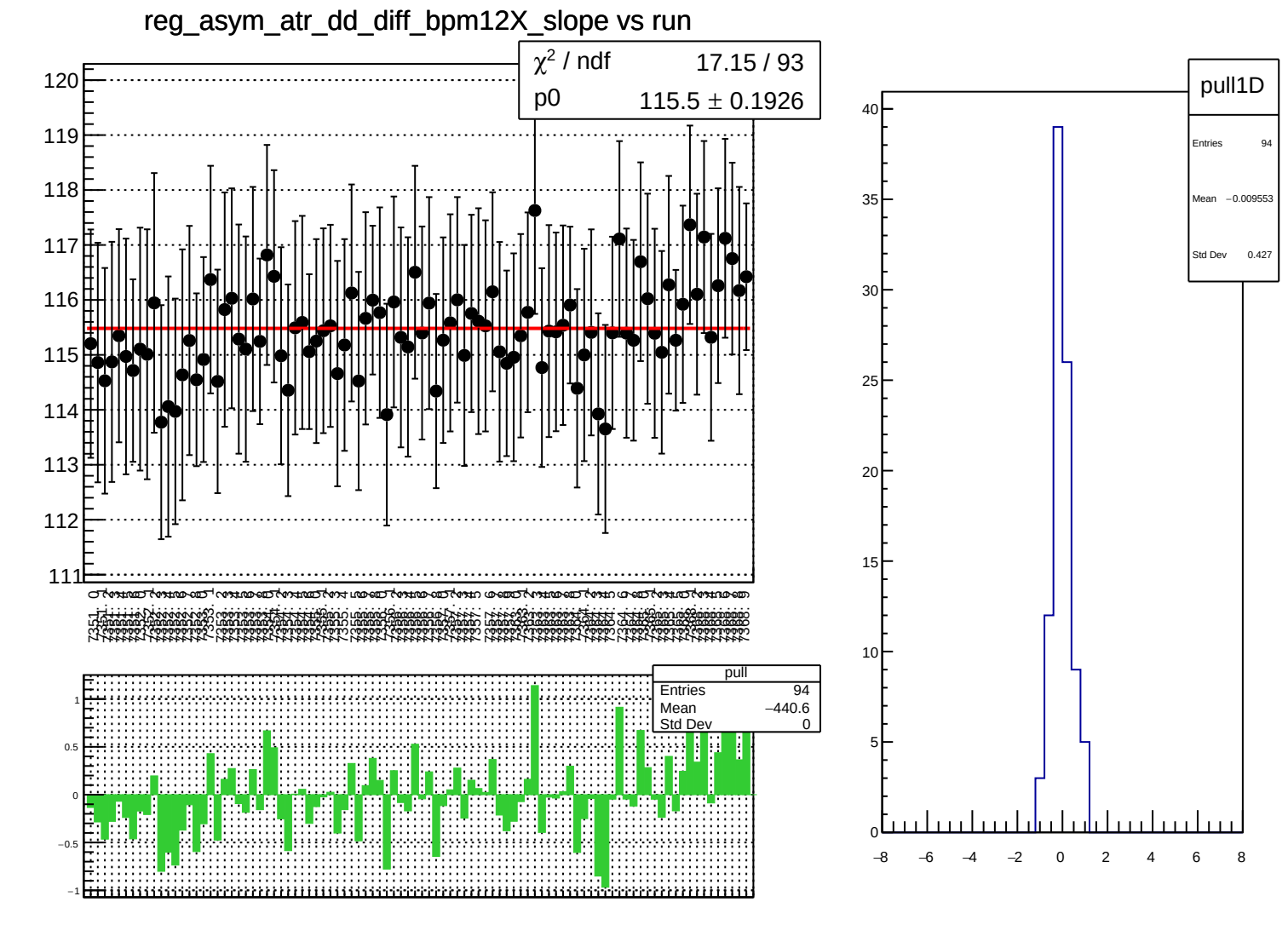

pull1D
Entries 94
Mean 0.01536
Std Dev 0.9329
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

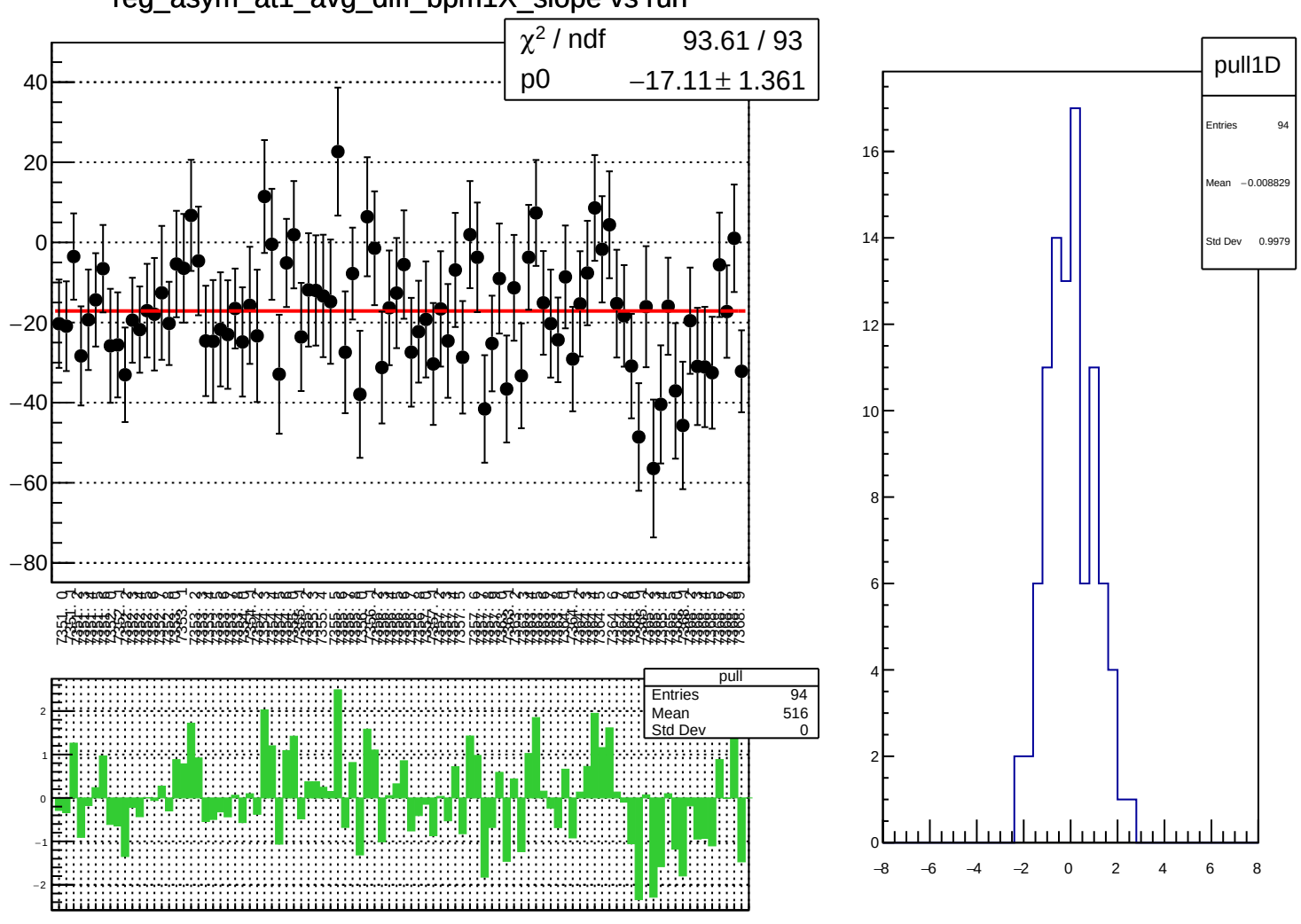

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 53.59 / 93
p0 114.9 ± 4.106
pull
Entries 94
Mean 226
Std Dev 0
pull1D
Entries 94
Mean 0.03428
Std Dev 0.7543

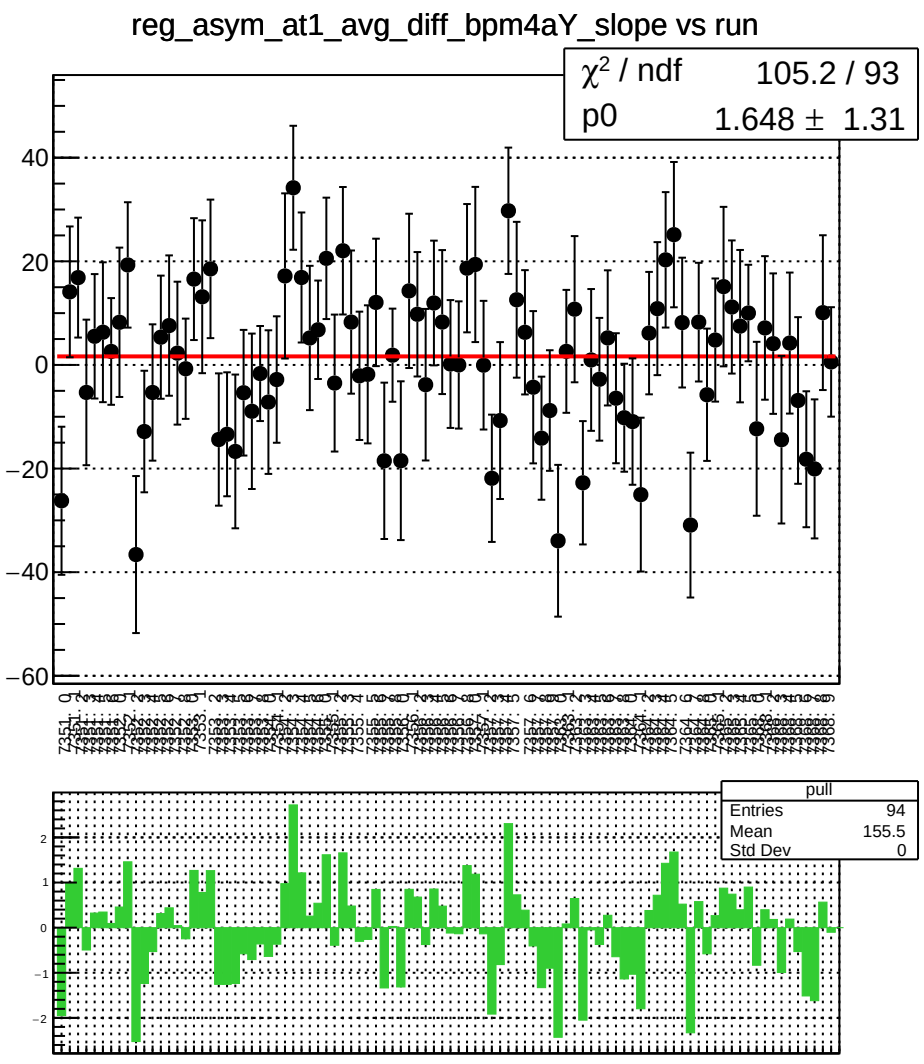

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 20.55 / 93
p0 49.28 ± 3.926
150
100
50
0
−50
pull
Entries 94
Mean −70.89
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 94
Mean 0.02951
Std Dev 0.4666
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

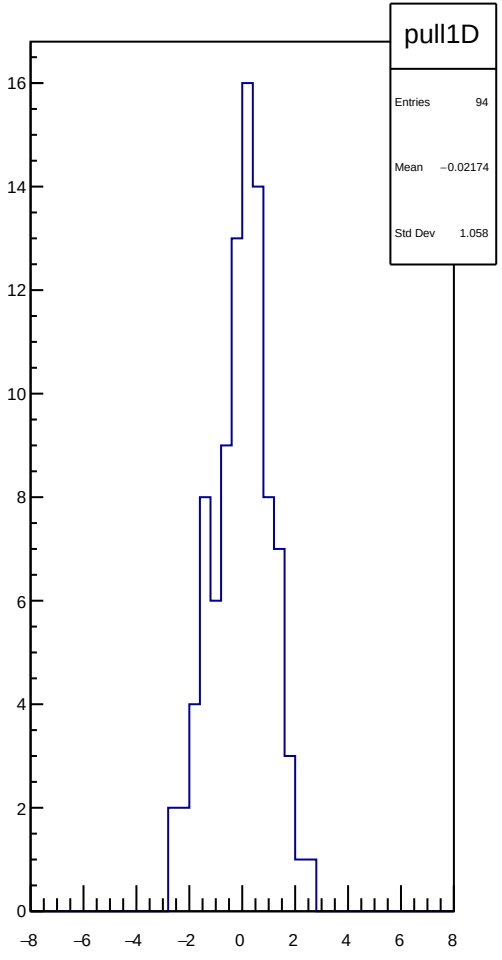

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 56 / 93
p0 −193.3 ± 4.08
−100
−150
−200
−250
−300
pull
Entries 94
Mean 231
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.0367
Std Dev 0.771
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

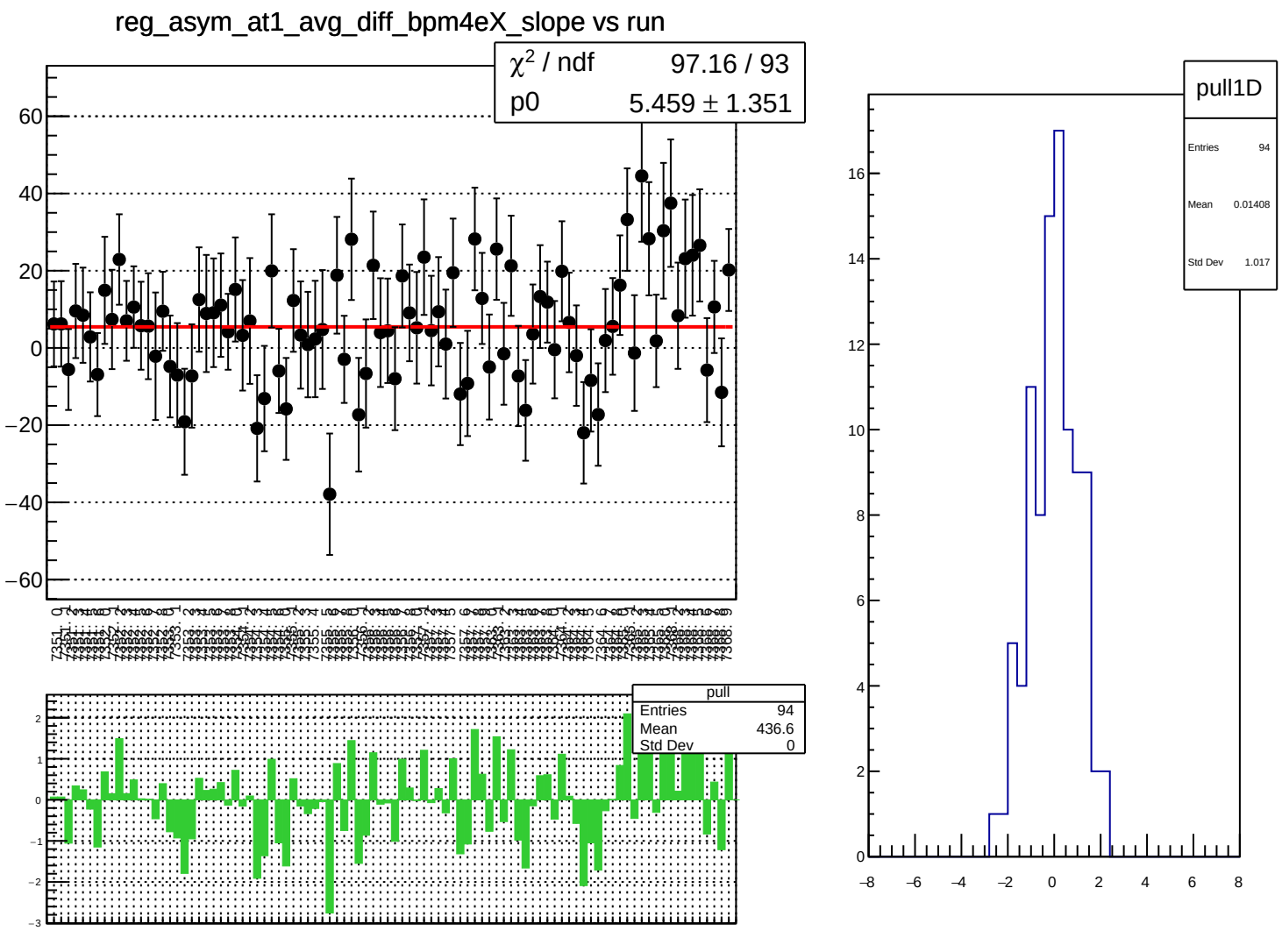

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 21.76 / 93
p0 −121.2 ± 4.157
−50
−100
−150
−200
−250
pull
Entries 94
Mean −136.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 94
Mean −0.02565
Std Dev 0.4805
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

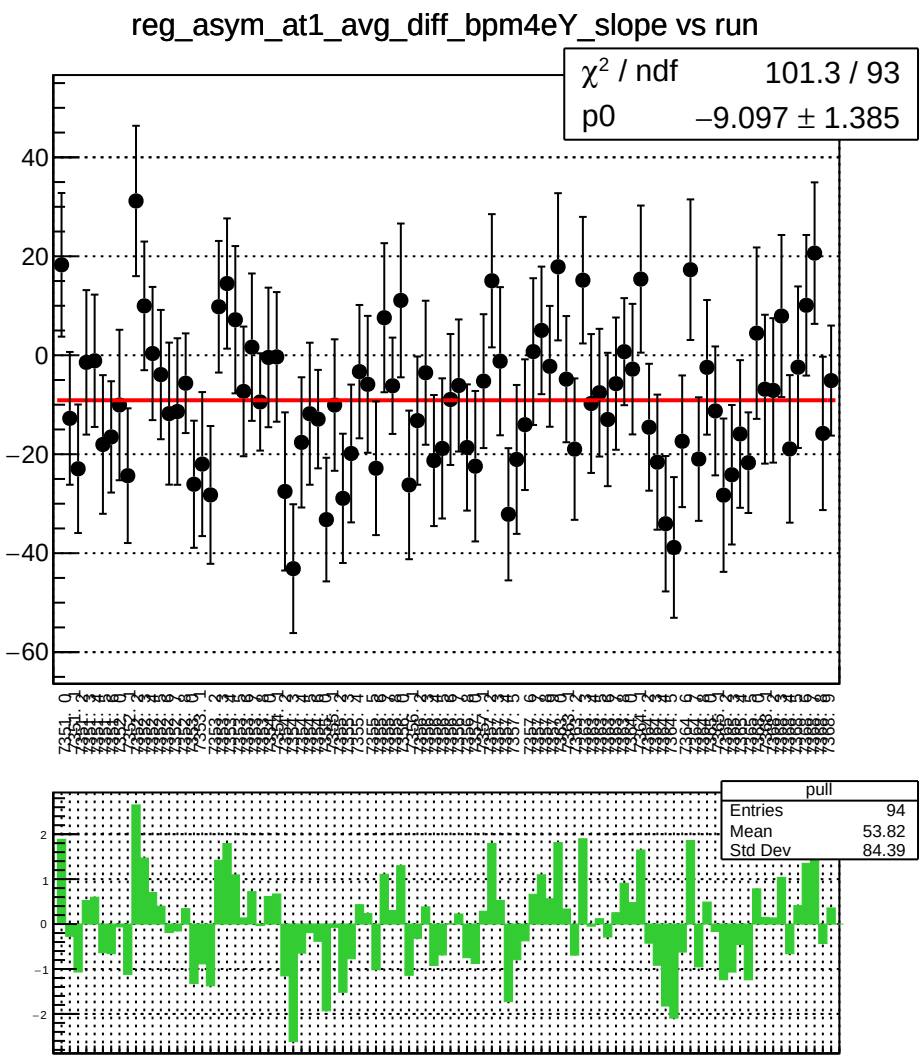

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 17.15 / 93
p0 115.5 ± 0.1926
pull
Entries 94
Mean −440.6
Std Dev 0
pull1D
Entries 94
Mean −0.009553
Std Dev 0.427

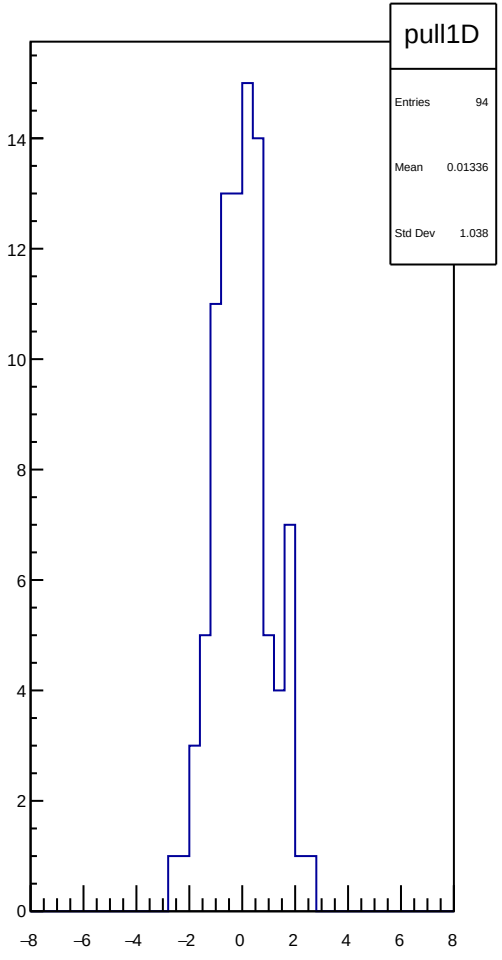

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 93.61 / 93
p0 −17.11 ± 1.361
pull
Entries 94
Mean 516
Std Dev 0
pull1D
Entries 94
Mean −0.008829
Std Dev 0.9979

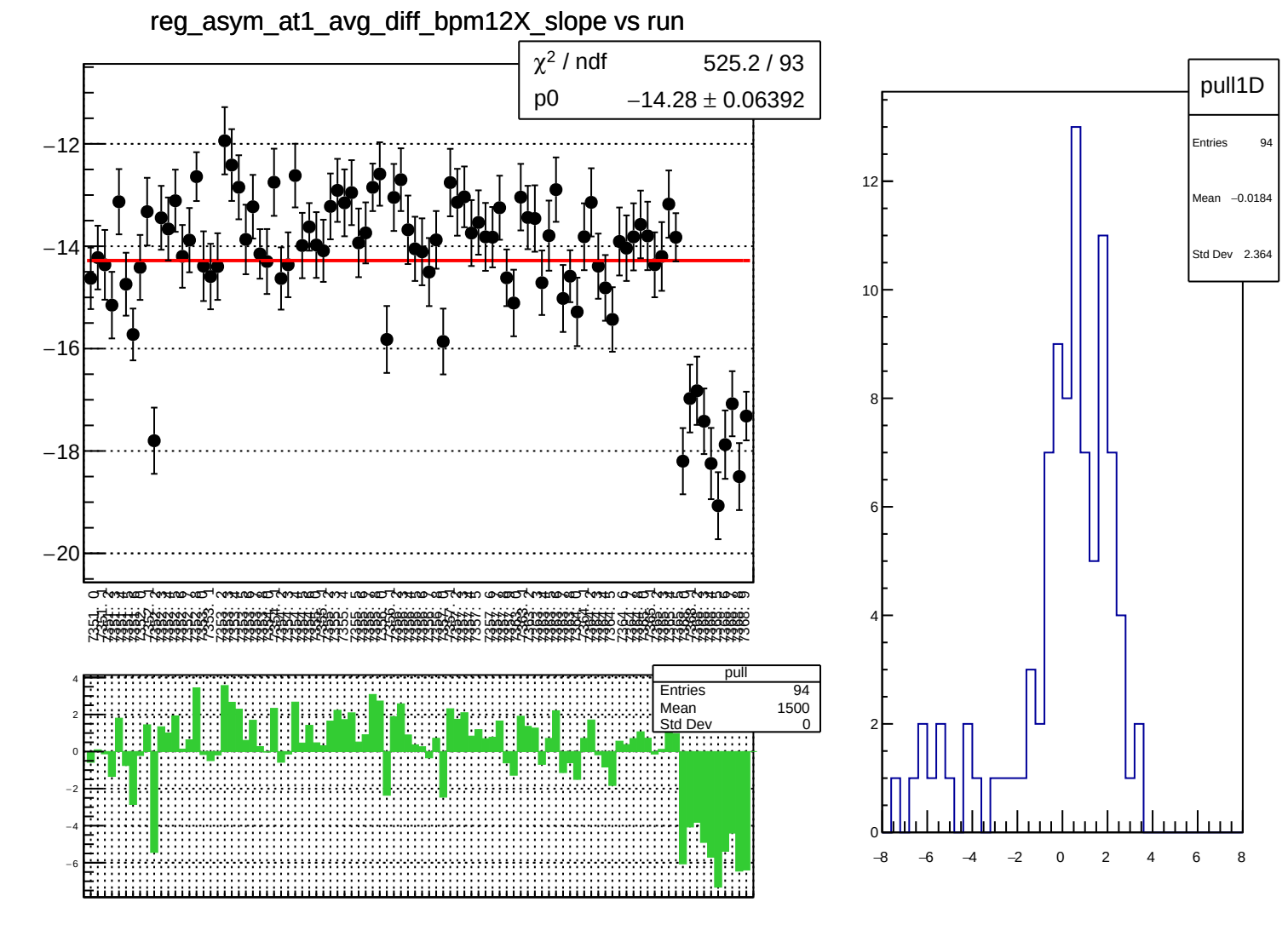

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 105.2 / 93
p0 1.648 ± 1.31
pull
Entries 94
Mean 155.5
Std Dev 0

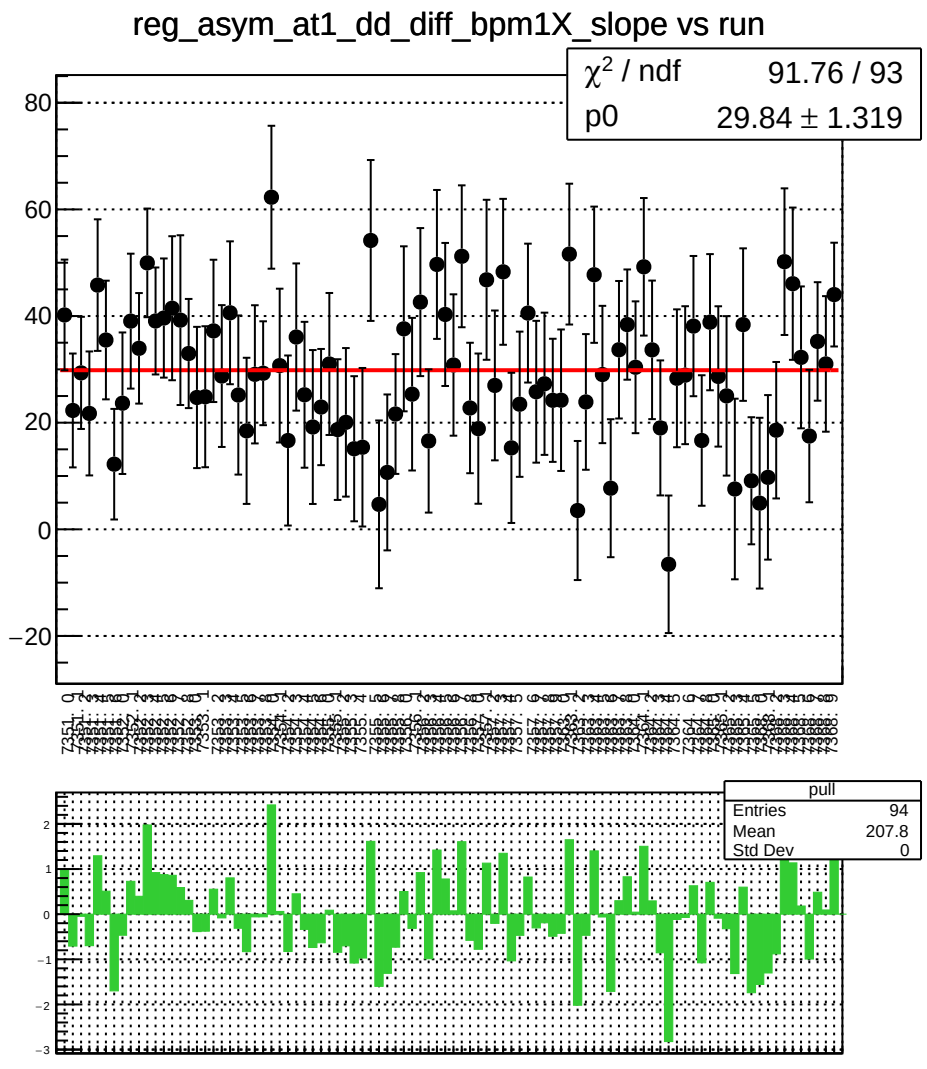

pull1D
Entries 94
Mean −0.02174
Std Dev 1.058

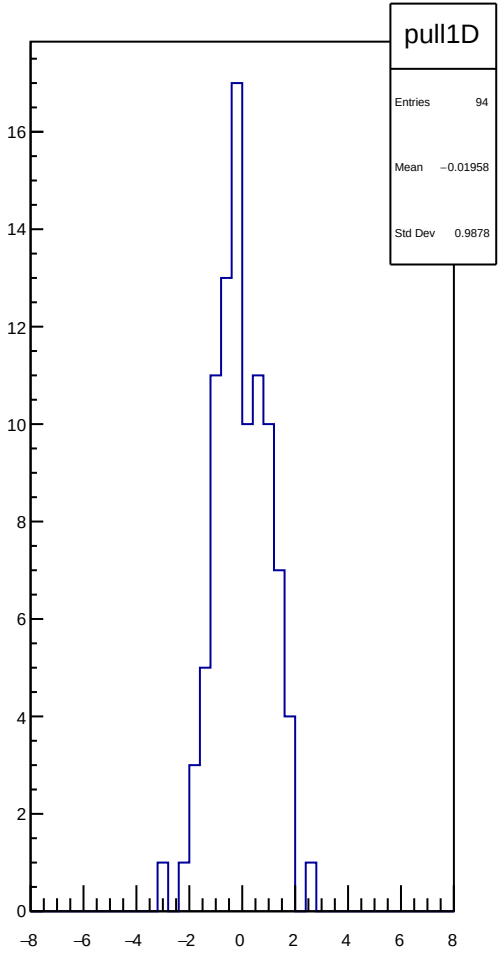

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 97.16 / 93
p0 5.459 ± 1.351
pull
Entries 94
Mean 436.6
Std Dev 0
pull1D
Entries 94
Mean 0.01408
Std Dev 1.017

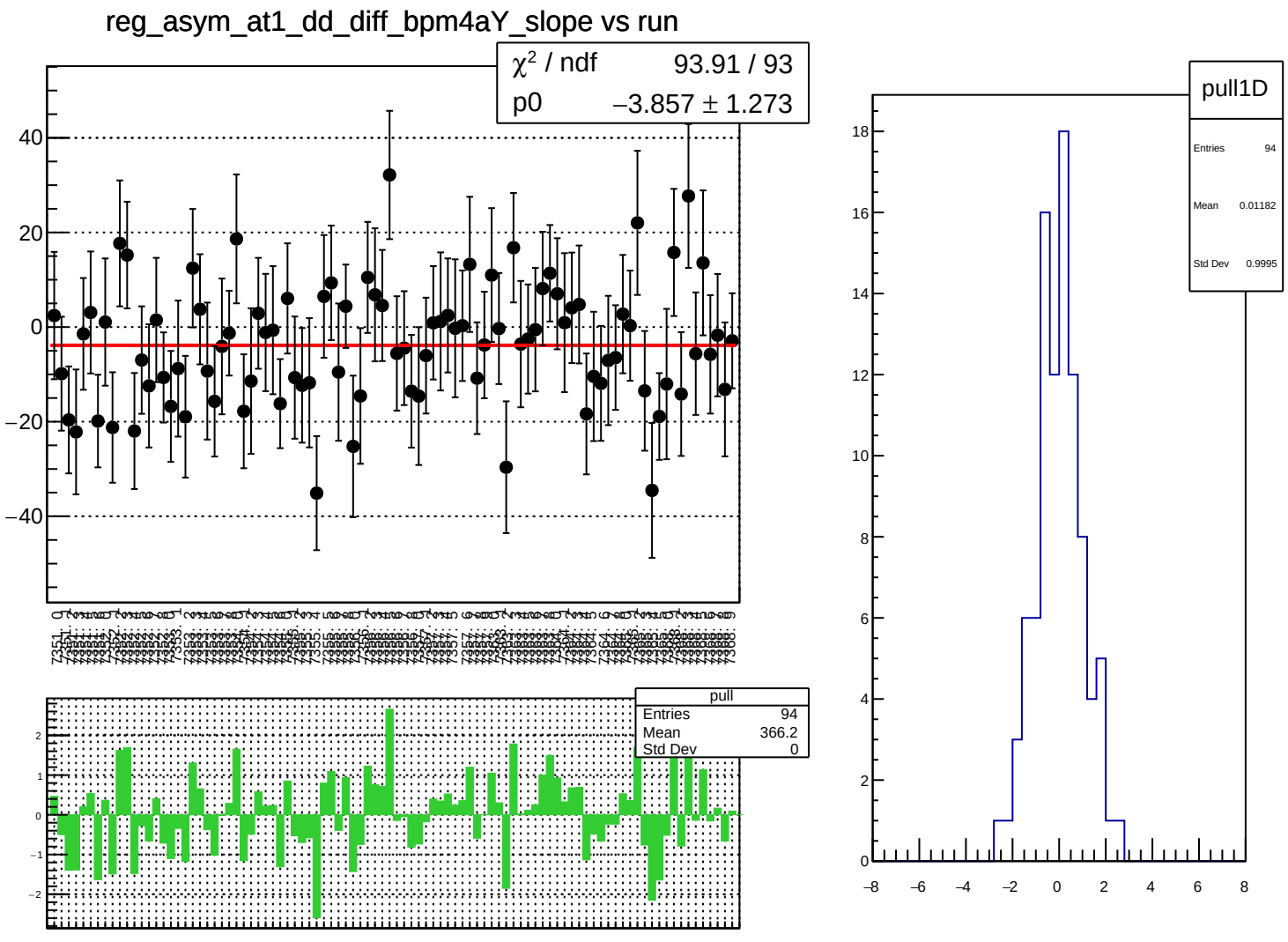

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 101.3 / 93
p0 −9.097 ± 1.385
pull
Entries 94
Mean 53.82
Std Dev 84.39

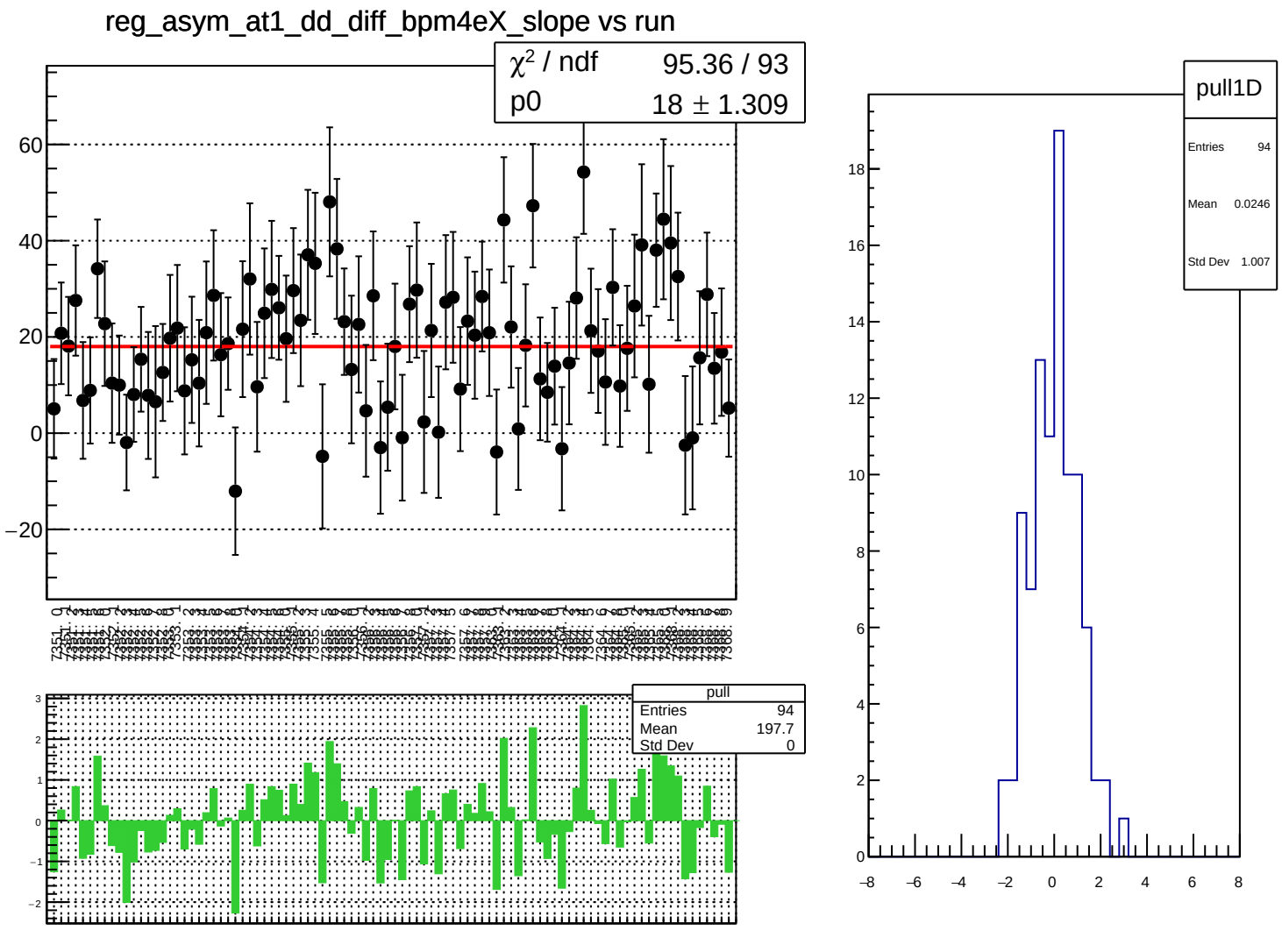

pull1D
Entries 94
Mean 0.01336
Std Dev 1.038

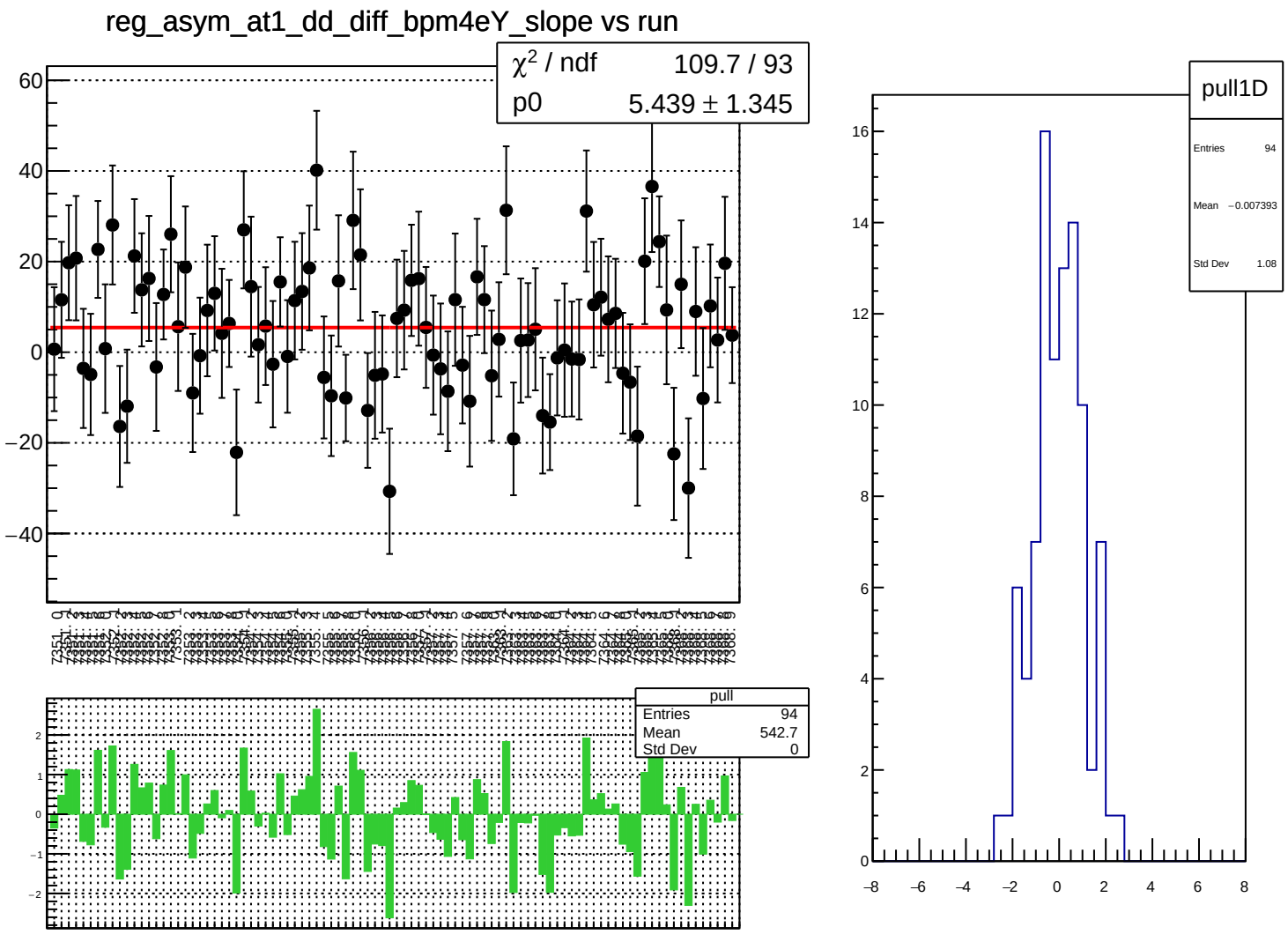

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 525.2 / 93
p0 −14.28 ± 0.06392
−12
−14
−16
−18
−20
pull
Entries 94
Mean 1500
Std Dev 0
4
2
0
−2
−4
−6
pull1D
Entries 94
Mean −0.0184
Std Dev 2.364
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

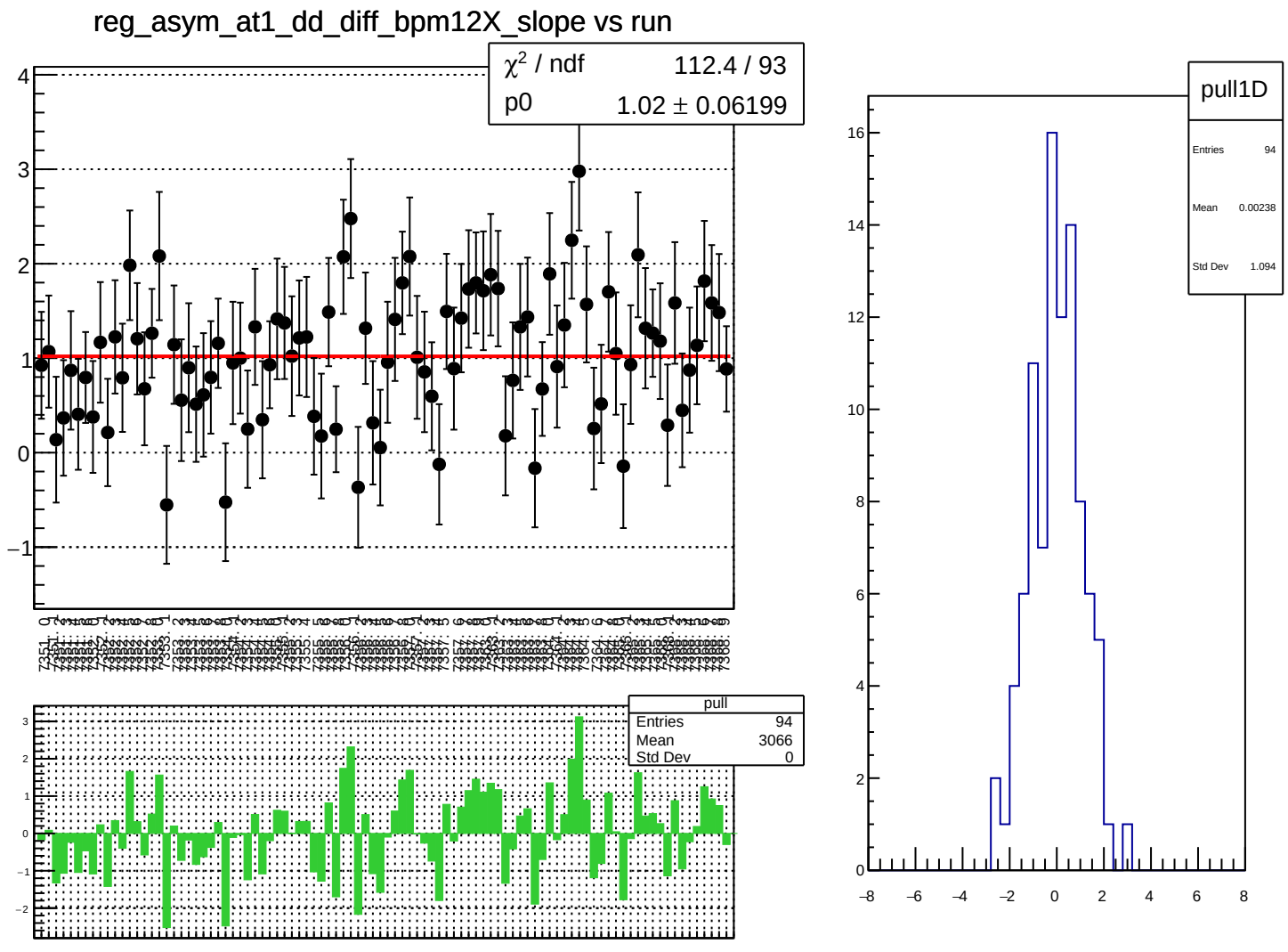

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 91.76 / 93
p0 29.84 ± 1.319
pull
Entries 94
Mean 207.8
Std Dev 0

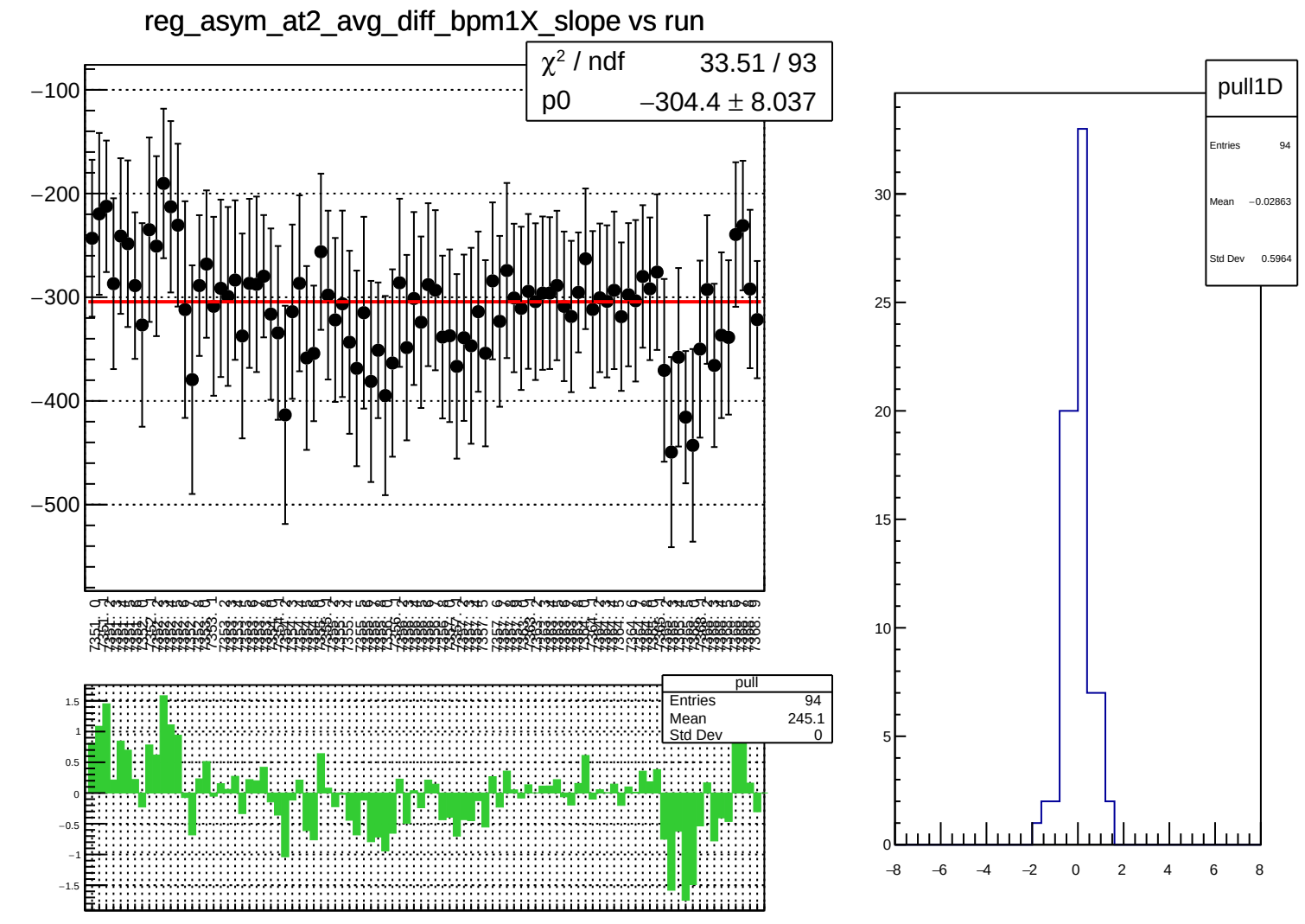

pull1D
Entries 94
Mean −0.01958
Std Dev 0.9878

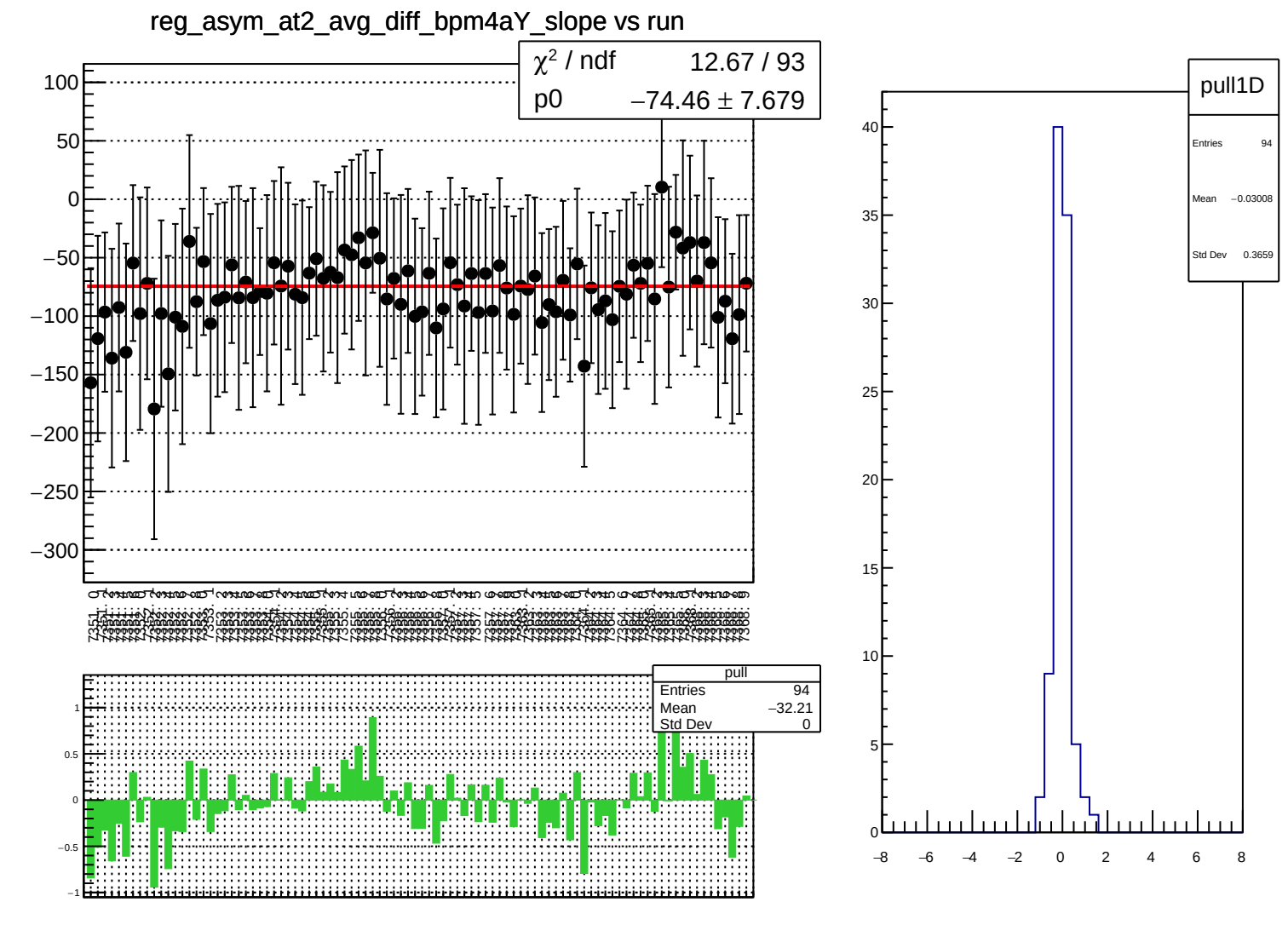

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 93.91 / 93
p0 −3.857 ± 1.273
40
20
0
−20
−40
pull
Entries 94
Mean 366.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.01182
Std Dev 0.9995
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

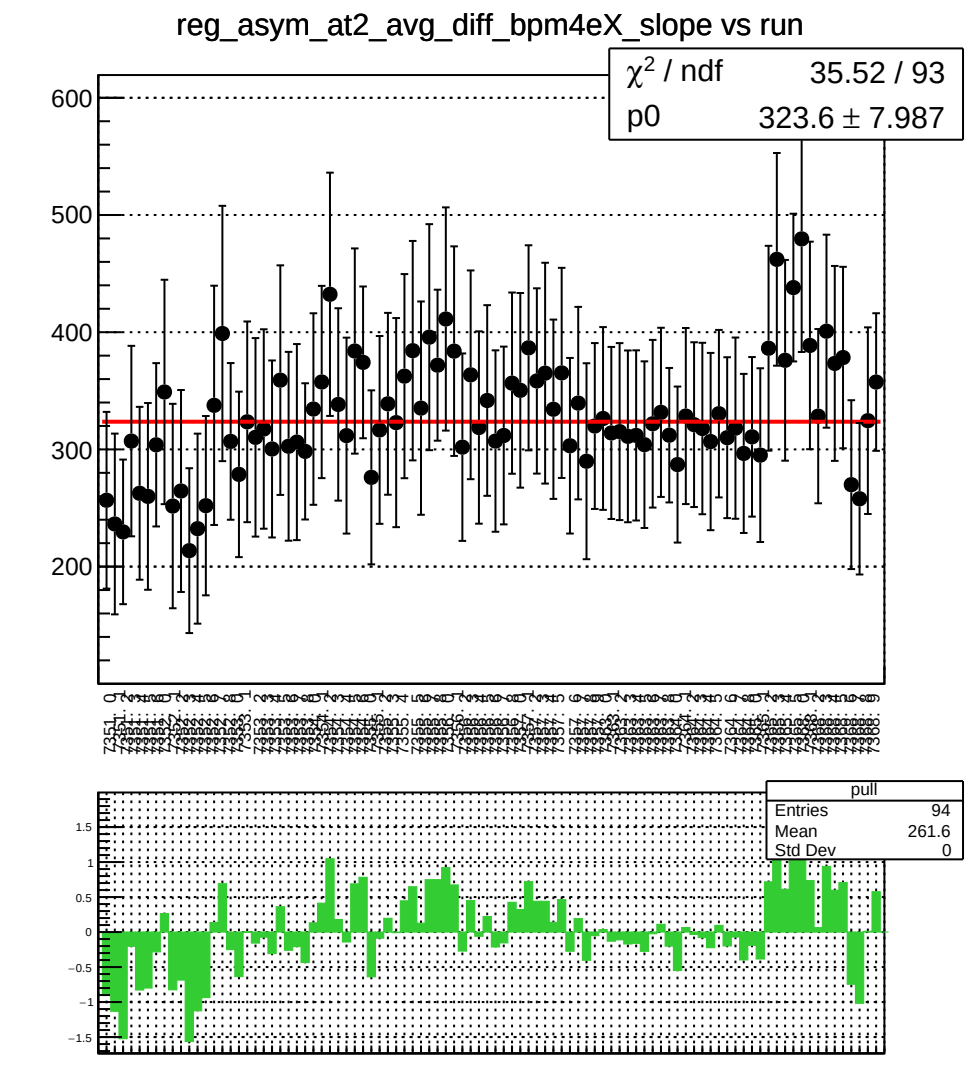

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 95.36 / 93
p0 18 ± 1.309
60
40
20
0
−20
pull
Entries 94
Mean 197.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.0246
Std Dev 1.007
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

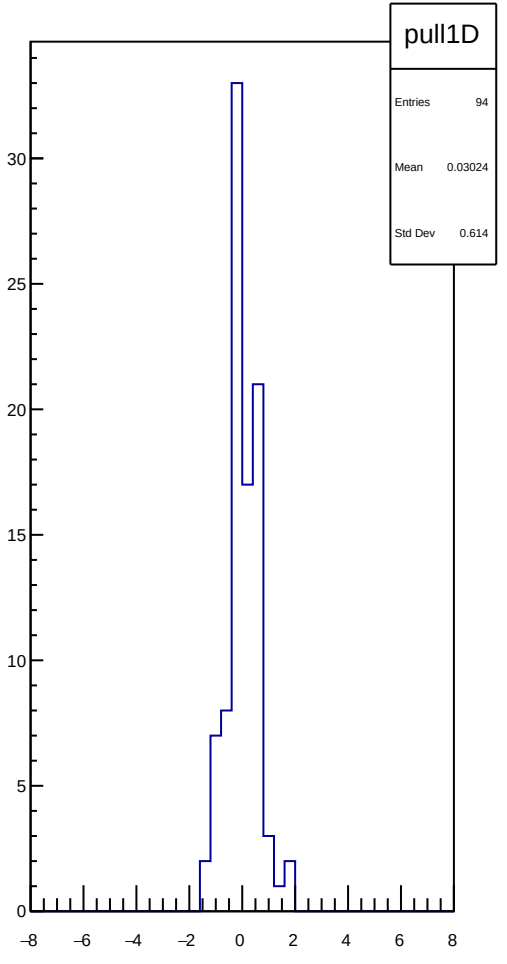

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 109.7 / 93
p0 5.439 ± 1.345
pull
Entries 94
Mean 542.7
Std Dev 0
pull1D
Entries 94
Mean −0.007393
Std Dev 1.08

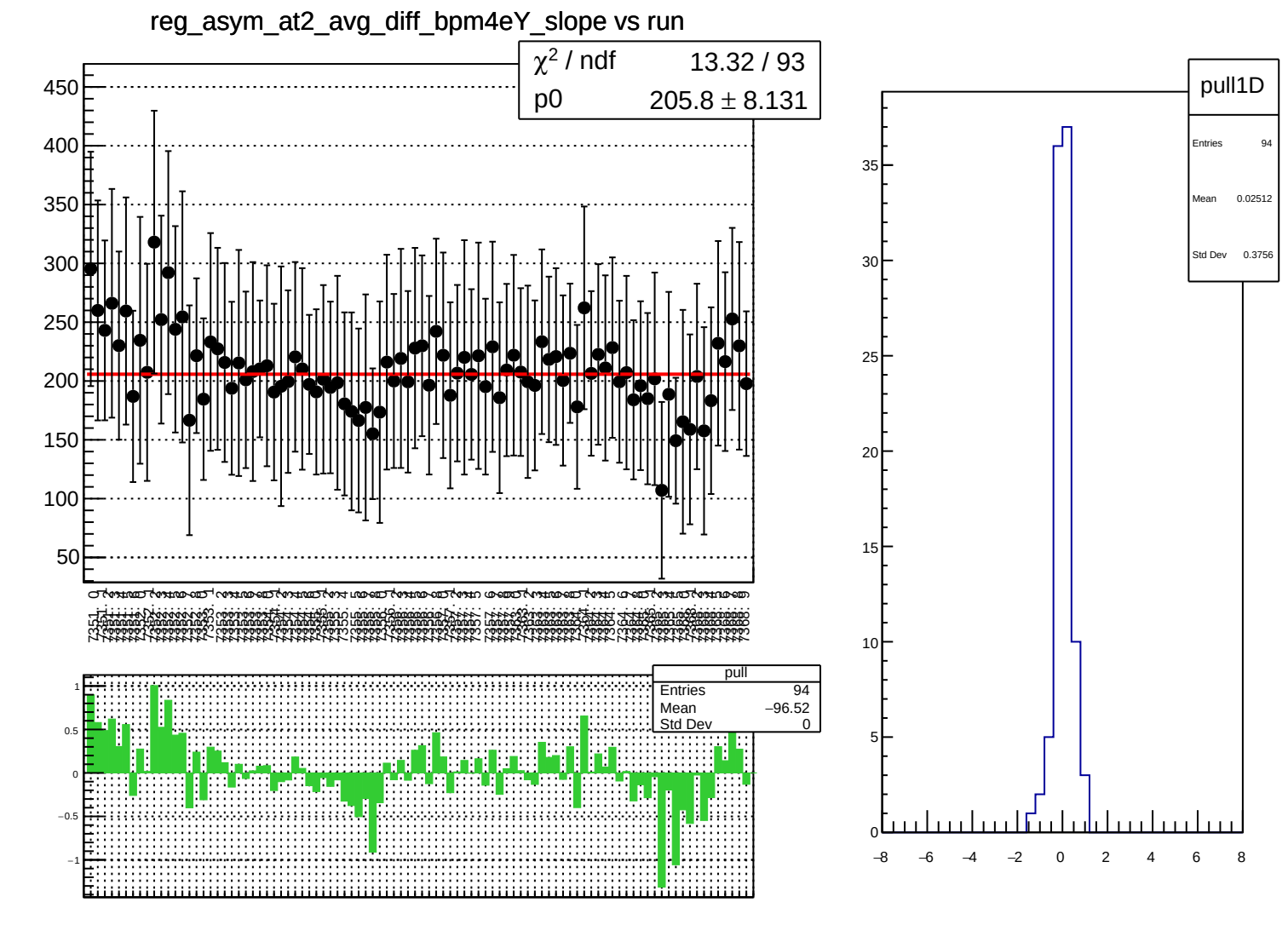

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 112.4 / 93
p0 1.02 ± 0.06199
pull
Entries 94
Mean 3066
Std Dev 0
pull1D
Entries 94
Mean 0.00238
Std Dev 1.094

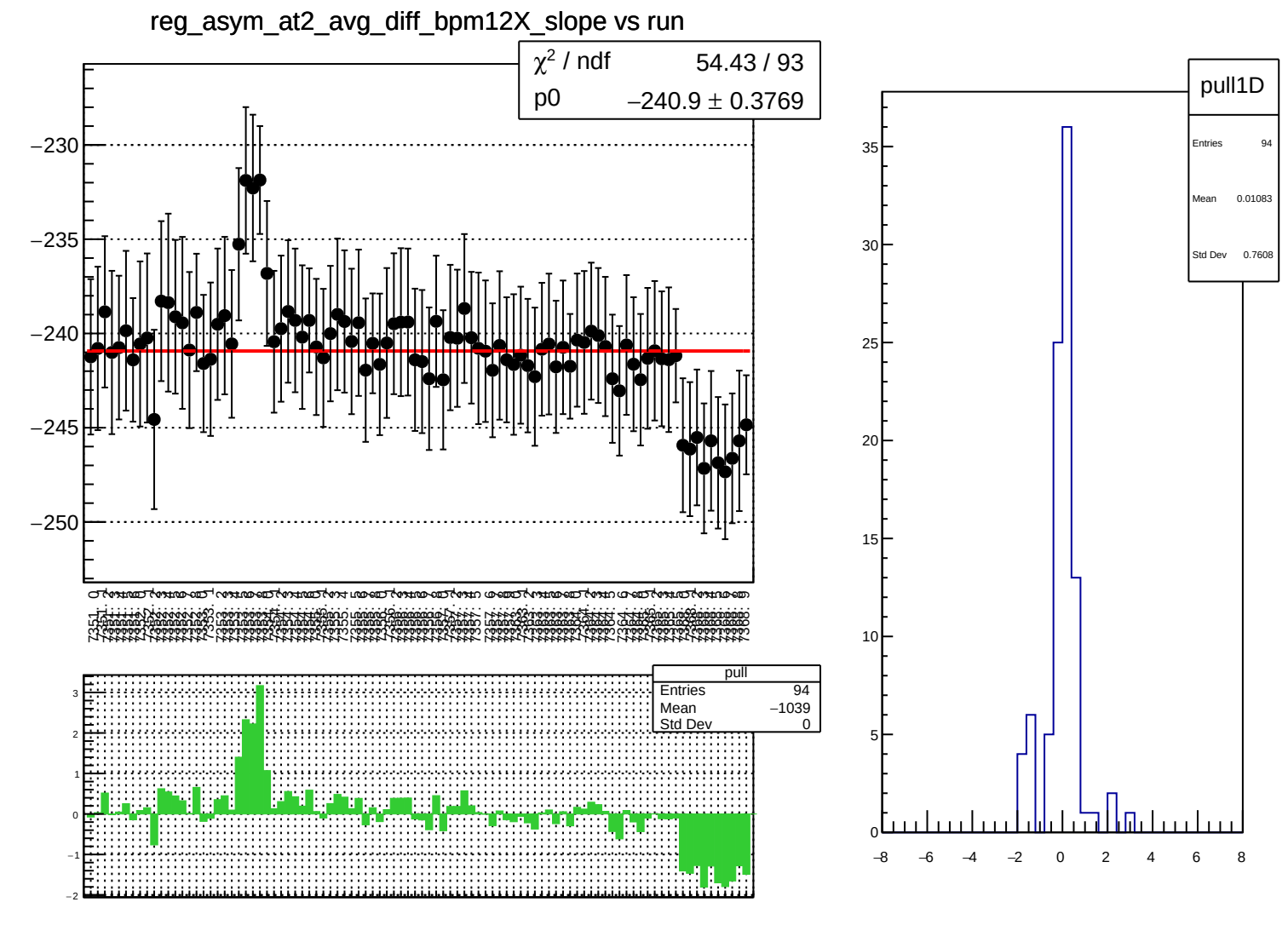

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 33.51 / 93
p0 −304.4 ± 8.037
−100
−200
−300
−400
−500
pull
Entries 94
Mean 245.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 94
Mean −0.02863
Std Dev 0.5964
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

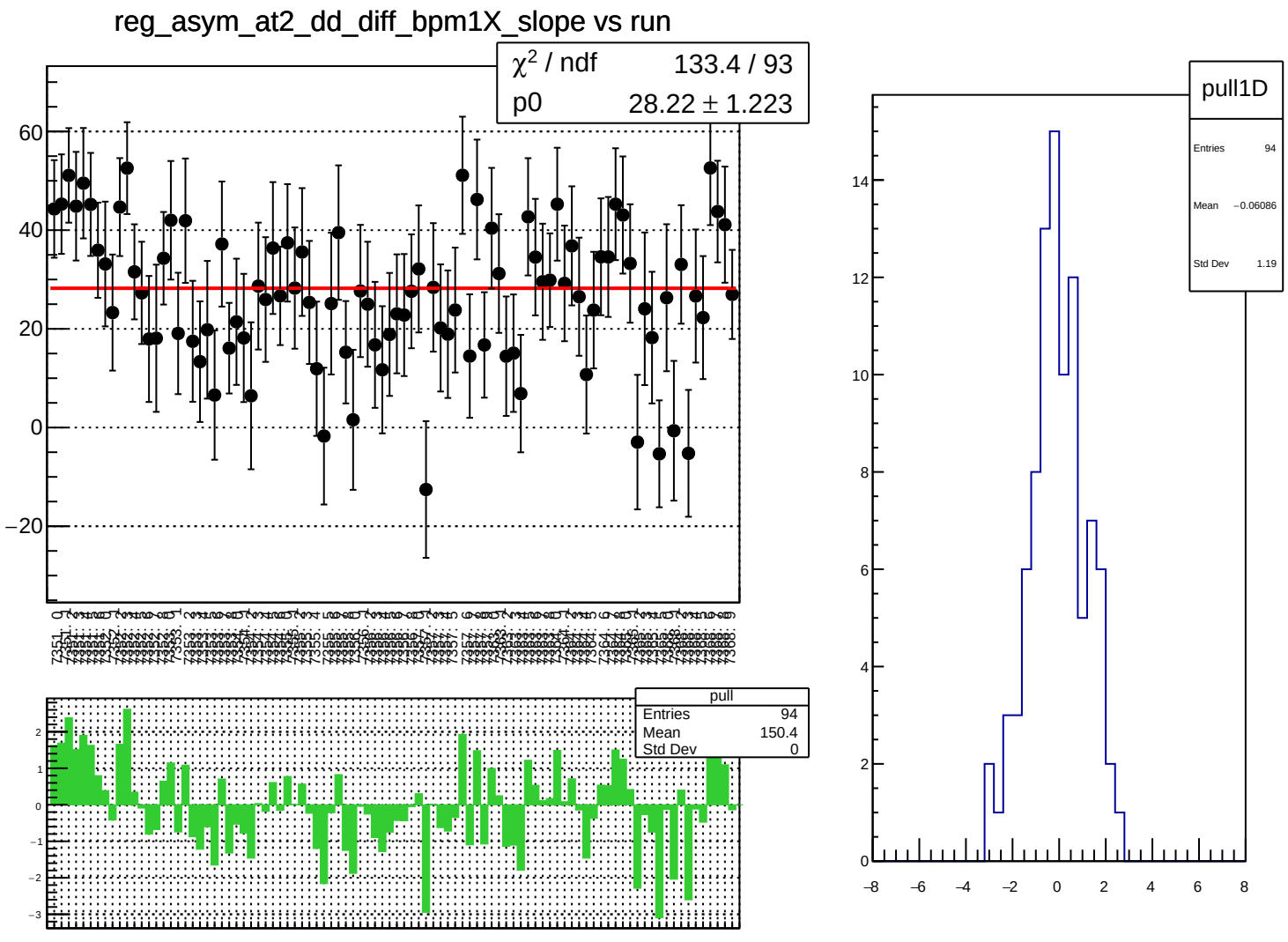

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 12.67 / 93
p0 −74.46 ± 7.679
pull
Entries 94
Mean −32.21
Std Dev 0
pull1D
Entries 94
Mean −0.03008
Std Dev 0.3659

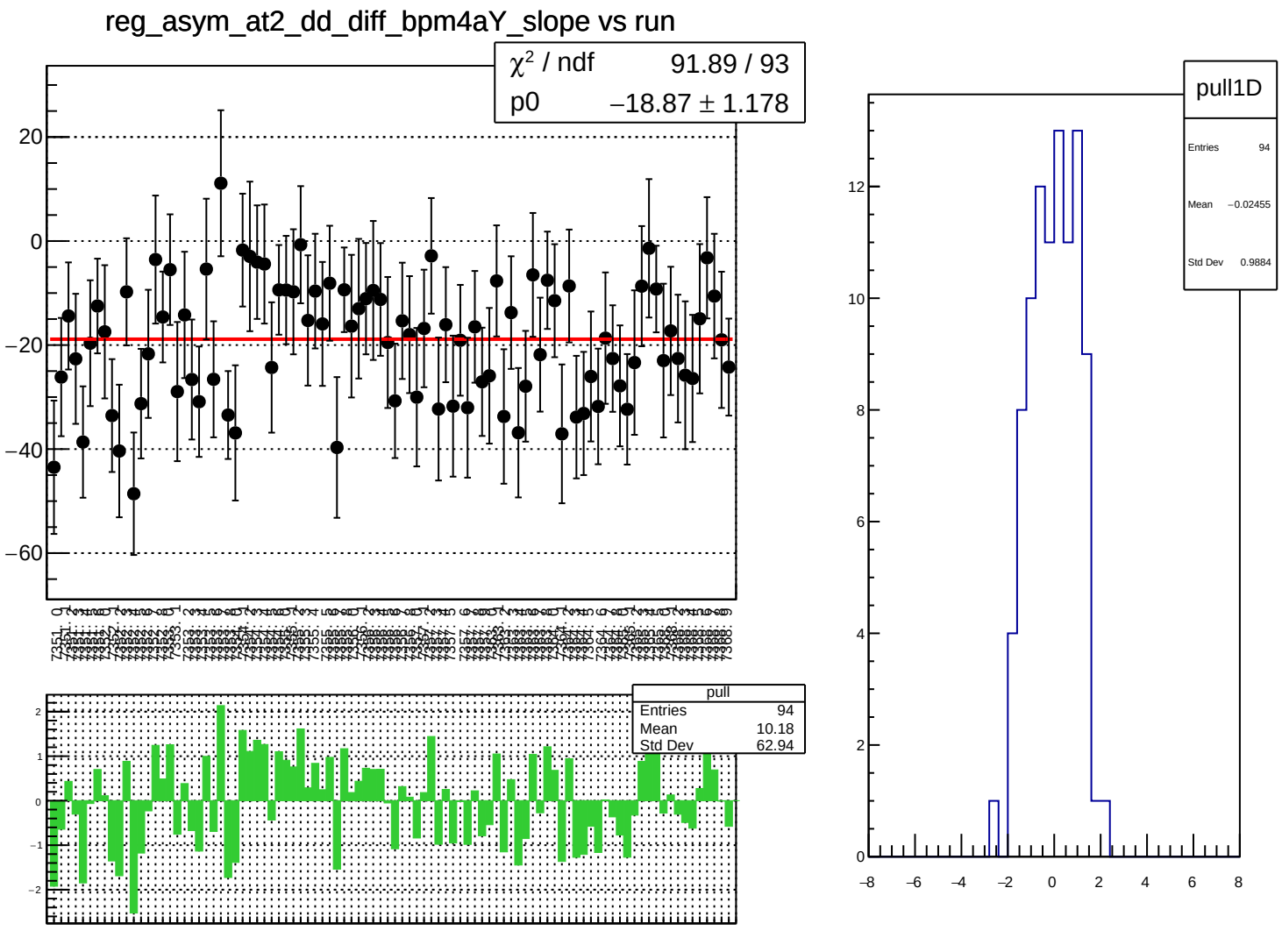

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 35.52 / 93
p0 323.6 ± 7.987
600
500
400
300
200
pull
Entries 94
Mean 261.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

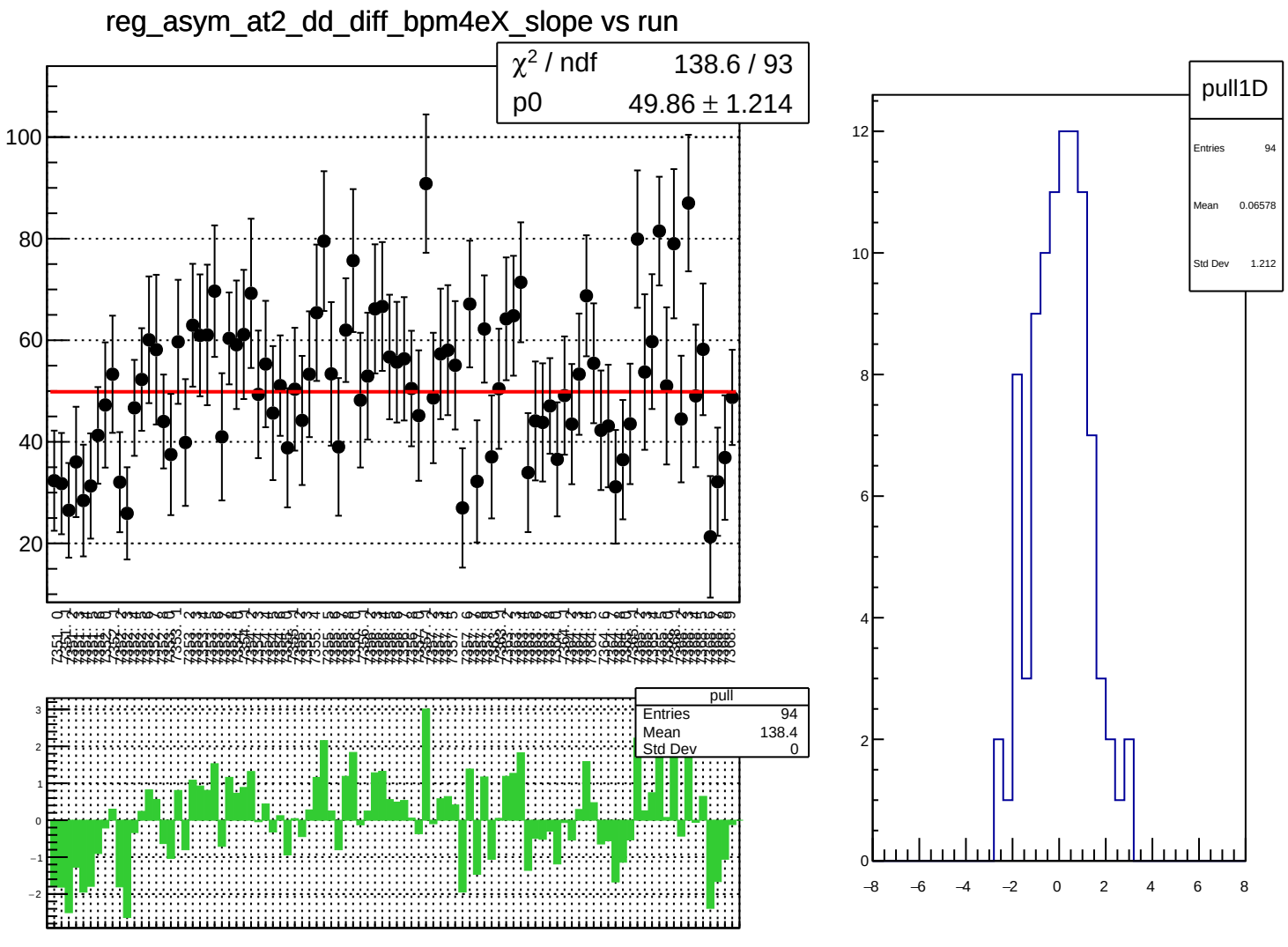

pull1D
Entries 94
Mean 0.03024
Std Dev 0.614
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

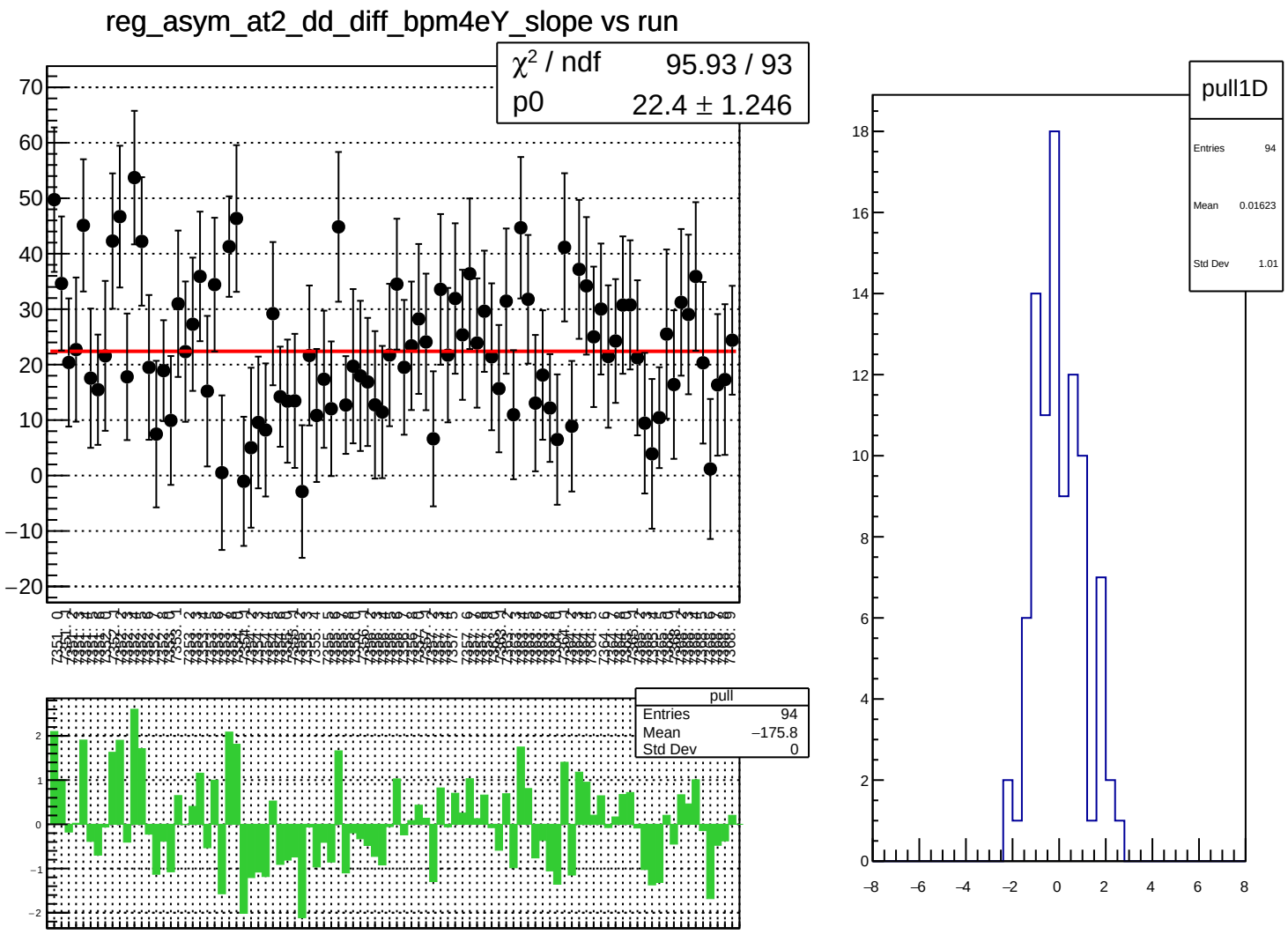

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 13.32 / 93
p0 205.8 ± 8.131
pull
Entries 94
Mean −96.52
Std Dev 0
pull1D
Entries 94
Mean 0.02512
Std Dev 0.3756

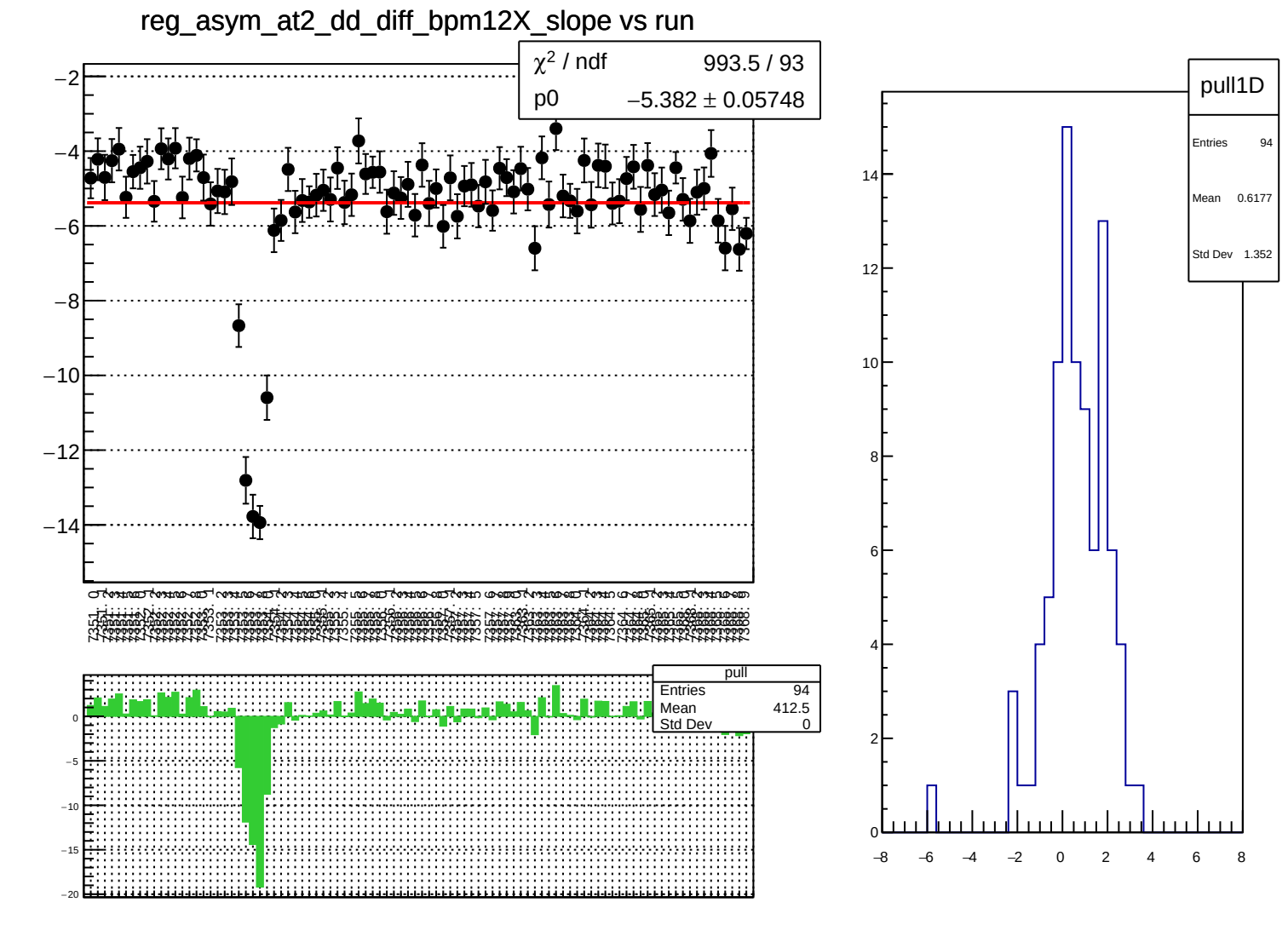

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 54.43 / 93
p0 −240.9 ± 0.3769
−230
−235
−240
−245
−250
pull
Entries 94
Mean −1039
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.01083
Std Dev 0.7608
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

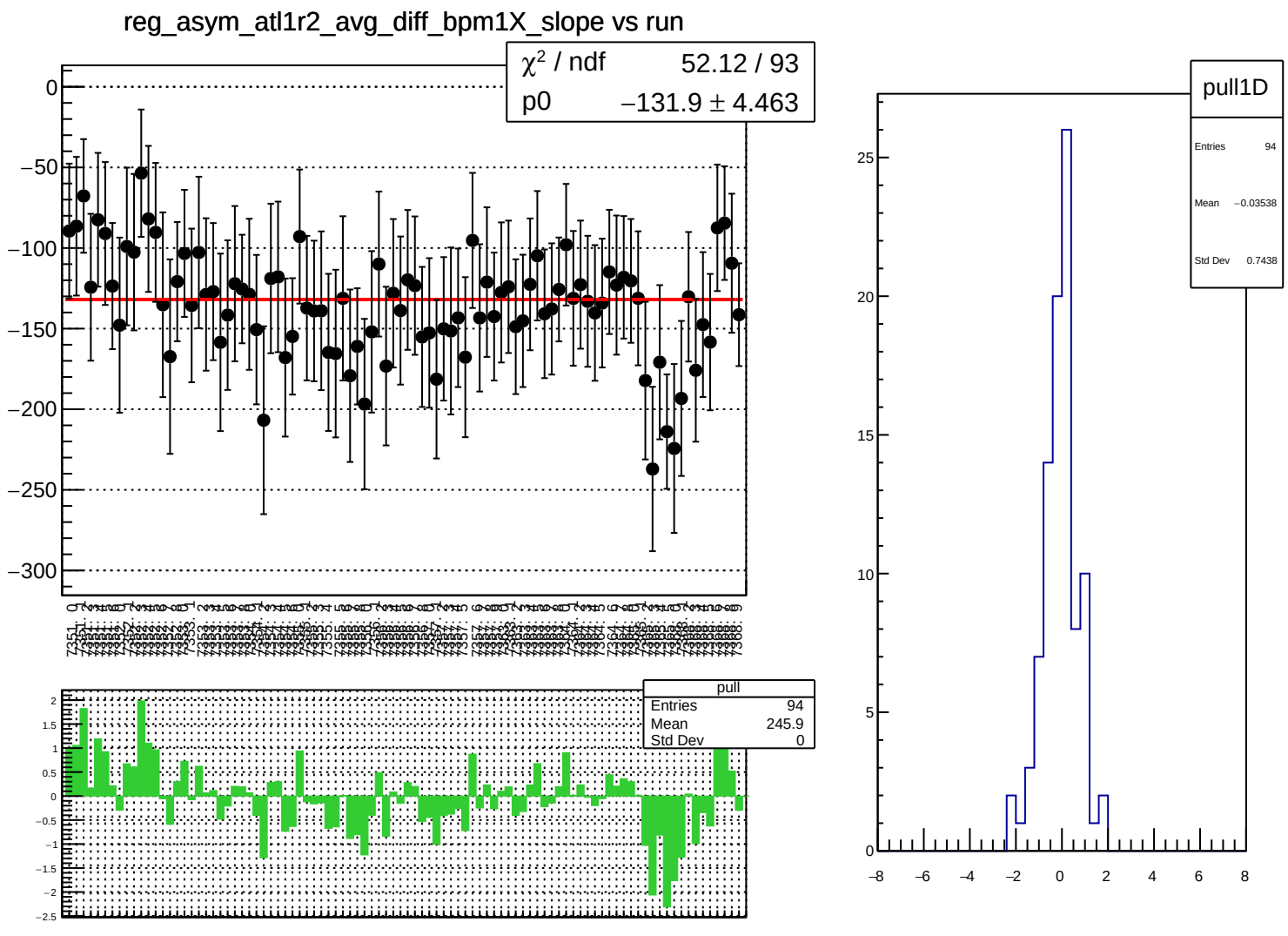

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 133.4 / 93
p0 28.22 ± 1.223
60
40
20
0
−20
pull
Entries 94
Mean 150.4
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.06086
Std Dev 1.19
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

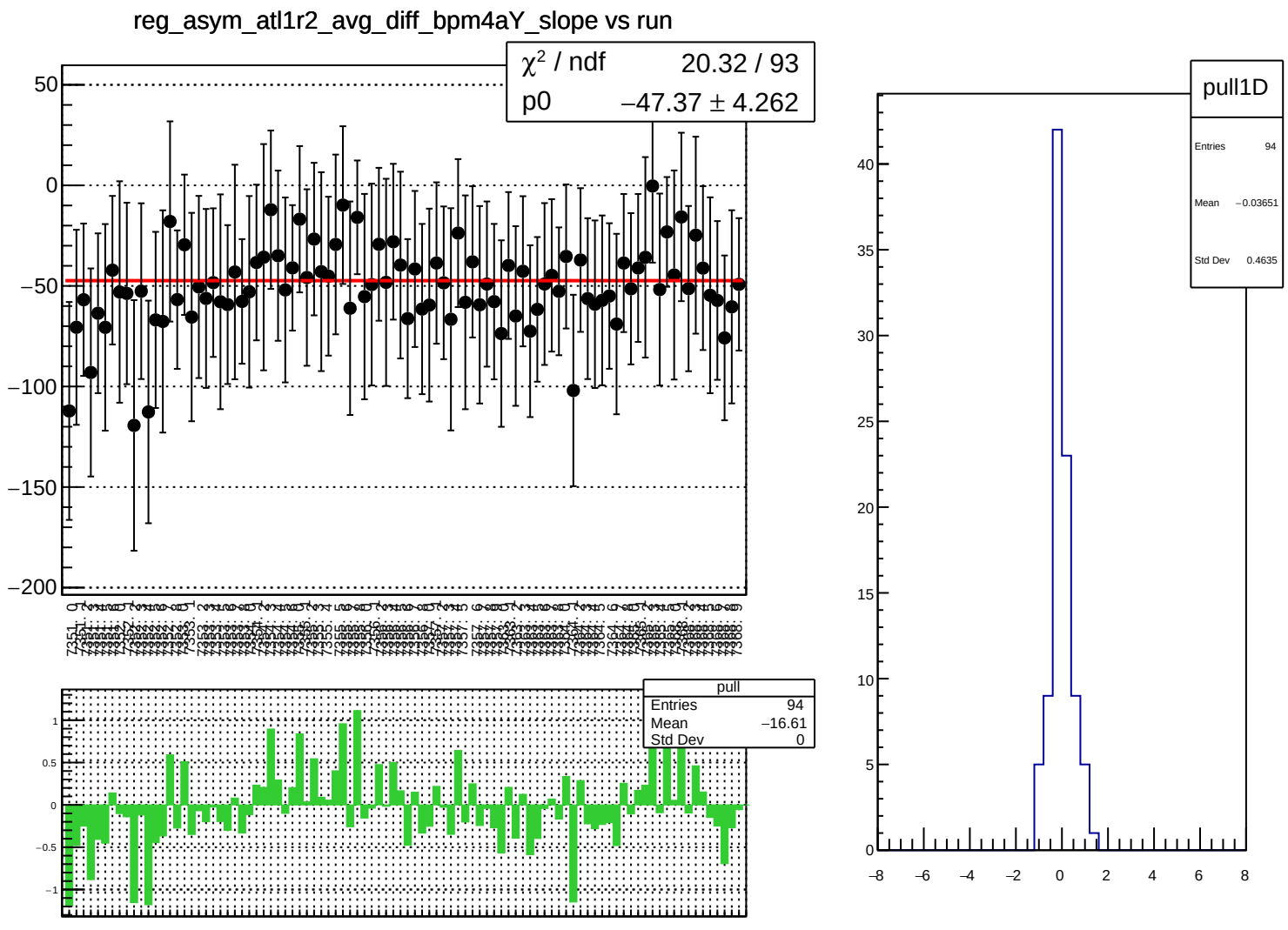

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 91.89 / 93
p0 −18.87 ± 1.178
20
0
−20
−40
−60
pull
Entries 94
Mean 10.18
Std Dev 62.94
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.02455
Std Dev 0.9884
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

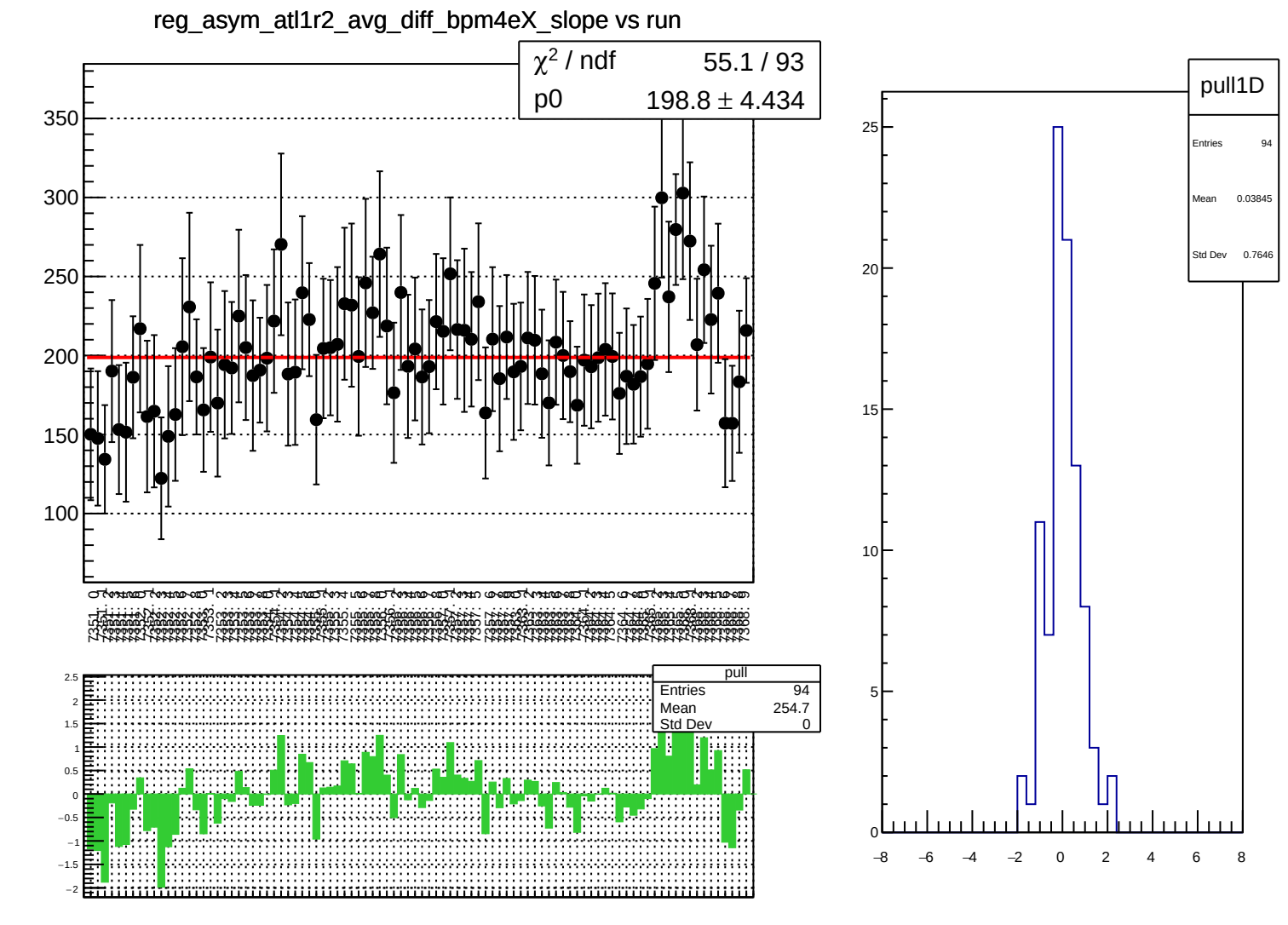

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 138.6 / 93
p0 49.86 ± 1.214
pull
Entries 94
Mean 138.4
Std Dev 0
pull1D
Entries 94
Mean 0.06578
Std Dev 1.212

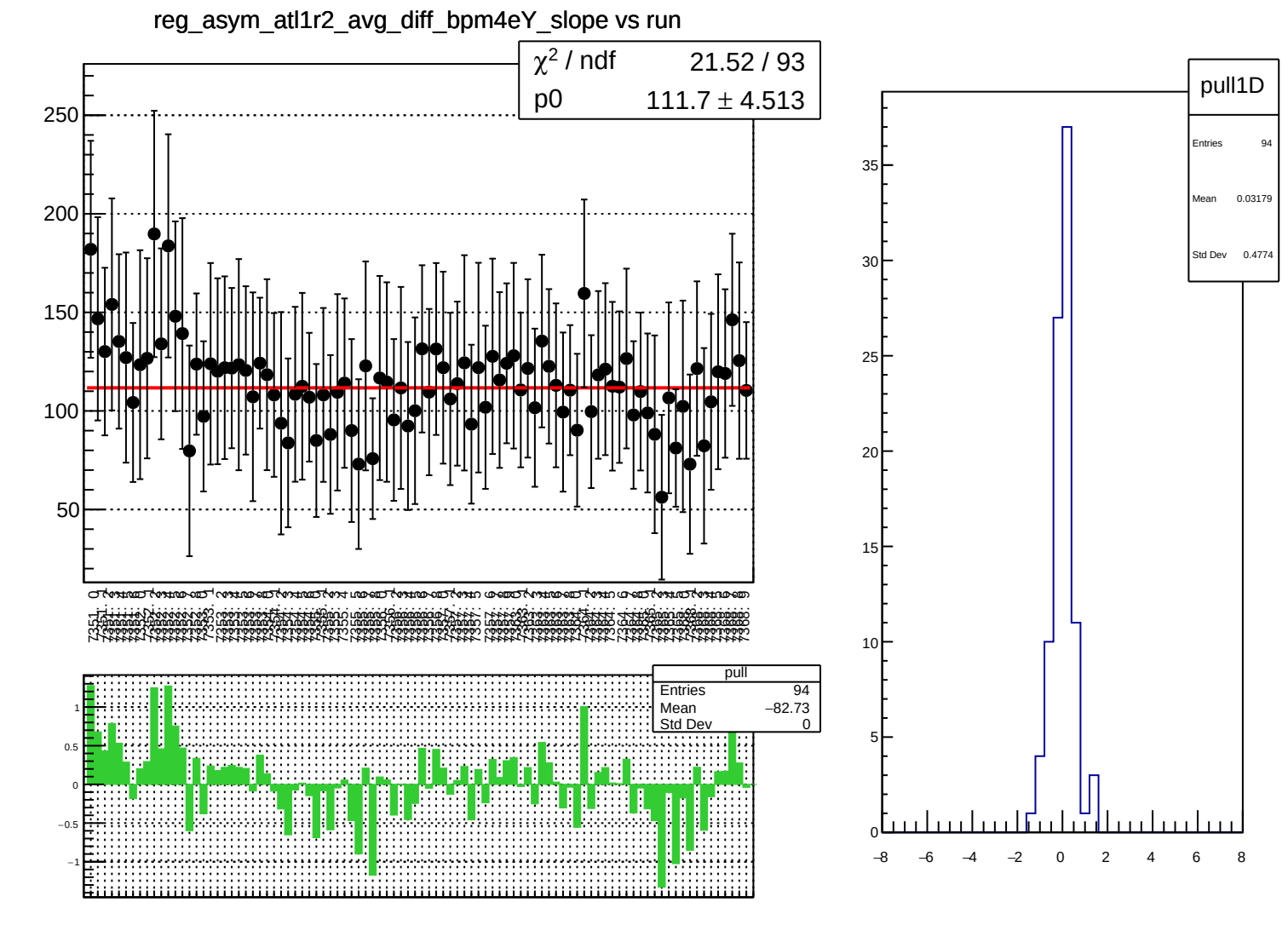

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 95.93 / 93
p0 22.4 ± 1.246
pull
Entries 94
Mean −175.8
Std Dev 0
pull1D
Entries 94
Mean 0.01623
Std Dev 1.01

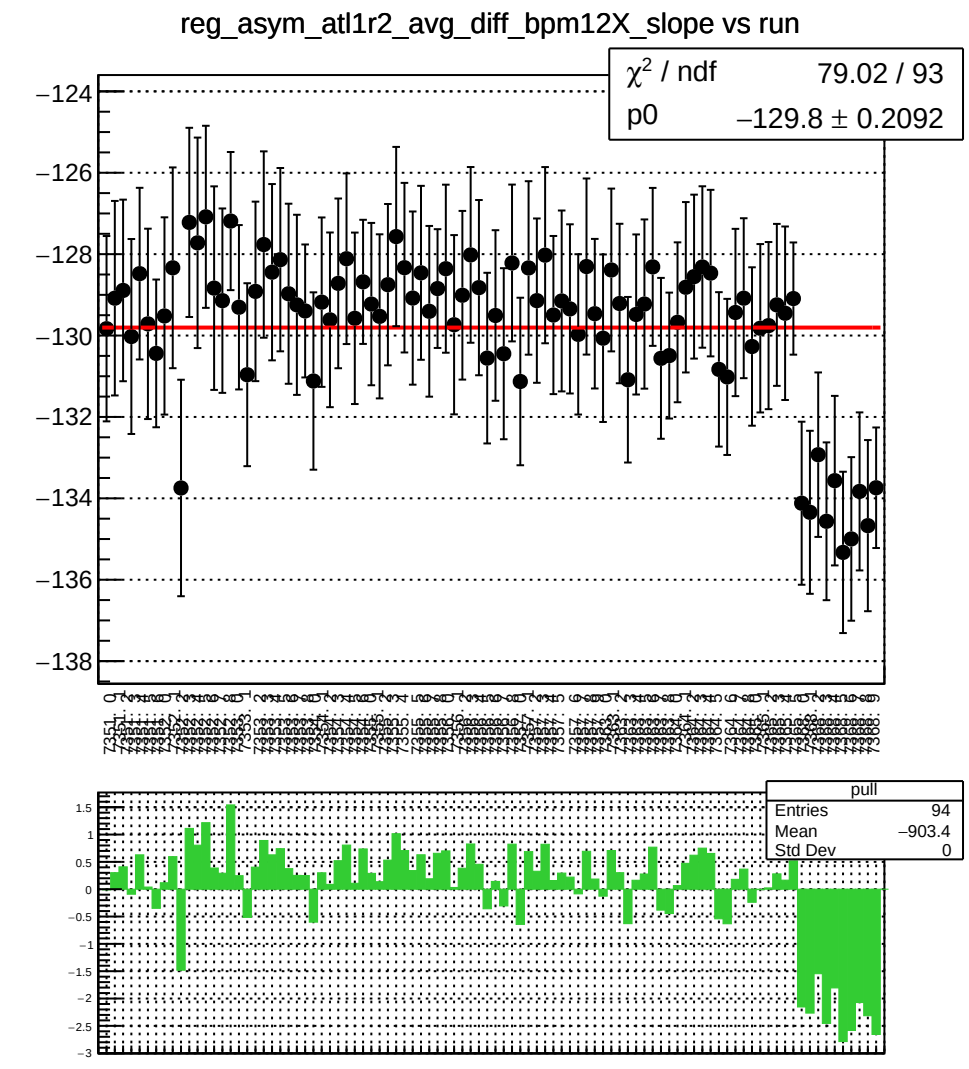

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 993.5 / 93
p0 −5.382 ± 0.05748
pull
Entries 94
Mean 412.5
Std Dev 0
pull1D
Entries 94
Mean 0.6177
Std Dev 1.352

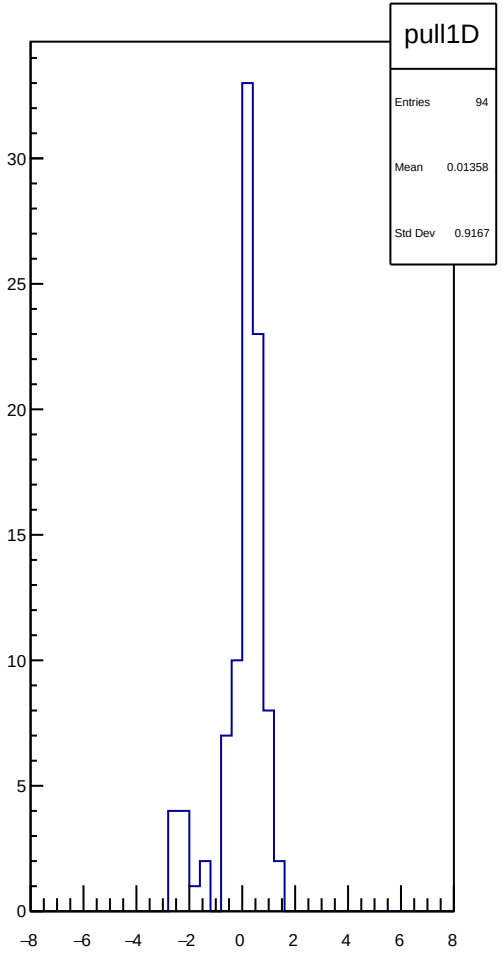

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 52.12 / 93
p0 −131.9 ± 4.463
pull
Entries 94
Mean 245.9
Std Dev 0
pull1D
Entries 94
Mean −0.03538
Std Dev 0.7438

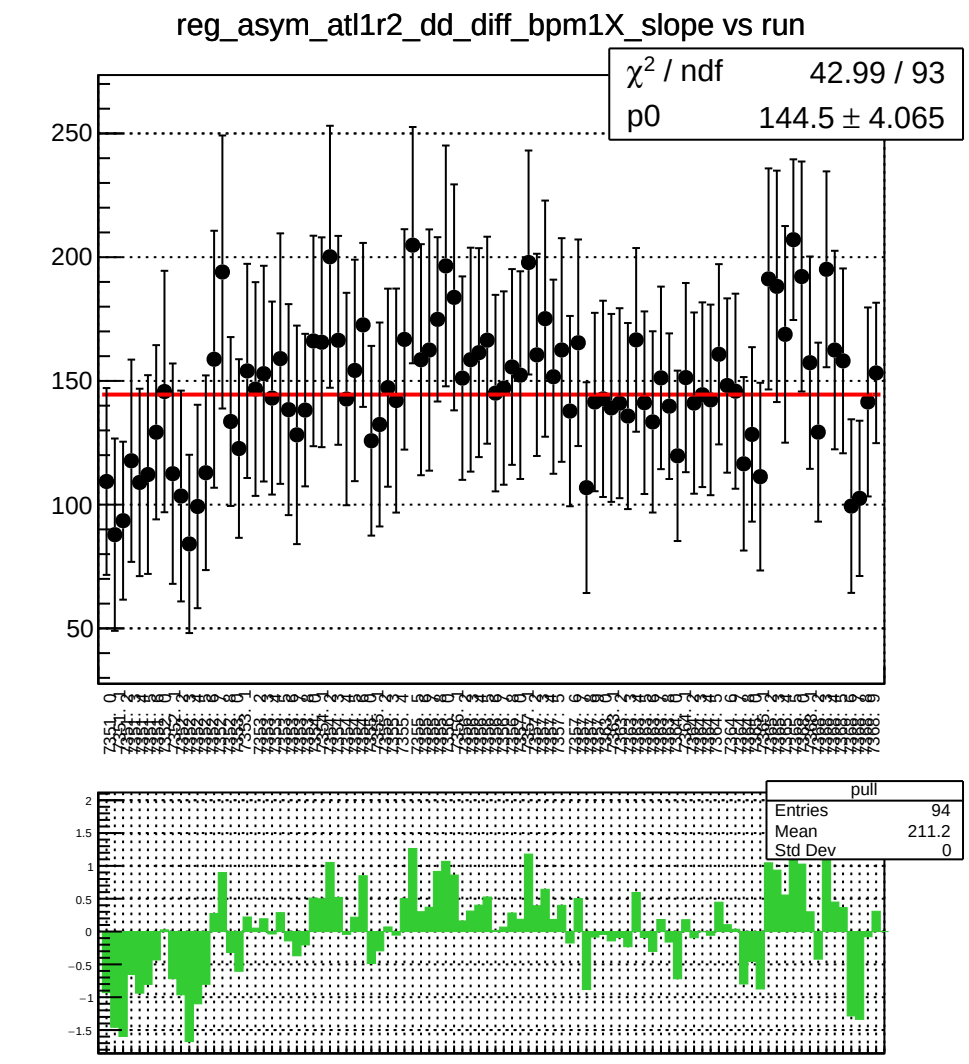

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 20.32 / 93
p0 −47.37 ± 4.262
50
0
−50
−100
−150
−200
pull
Entries 94
Mean −16.61
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 94
Mean −0.03651
Std Dev 0.4635
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

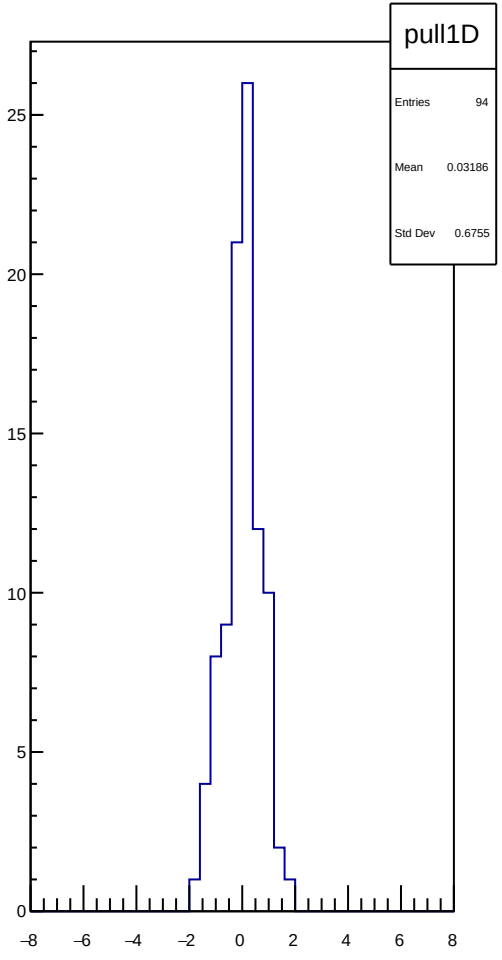

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 55.1 / 93
p0 198.8 ± 4.434
350
300
250
200
150
100
pull
Entries 94
Mean 254.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean 0.03845
Std Dev 0.7646
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

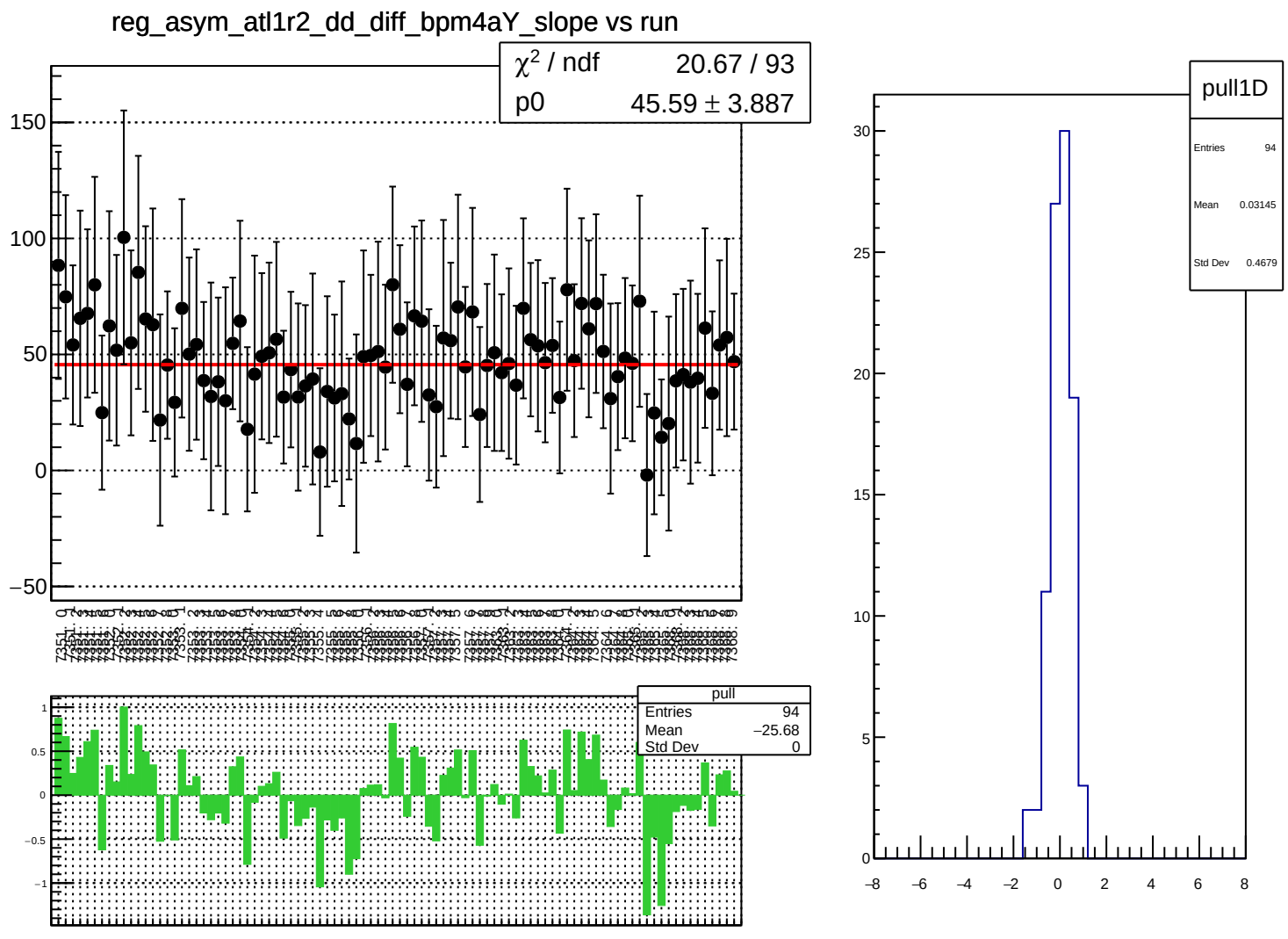

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 21.52 / 93
p0 111.7 ± 4.513
250
200
150
100
50
pull
Entries 94
Mean −82.73
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 94
Mean 0.03179
Std Dev 0.4774
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

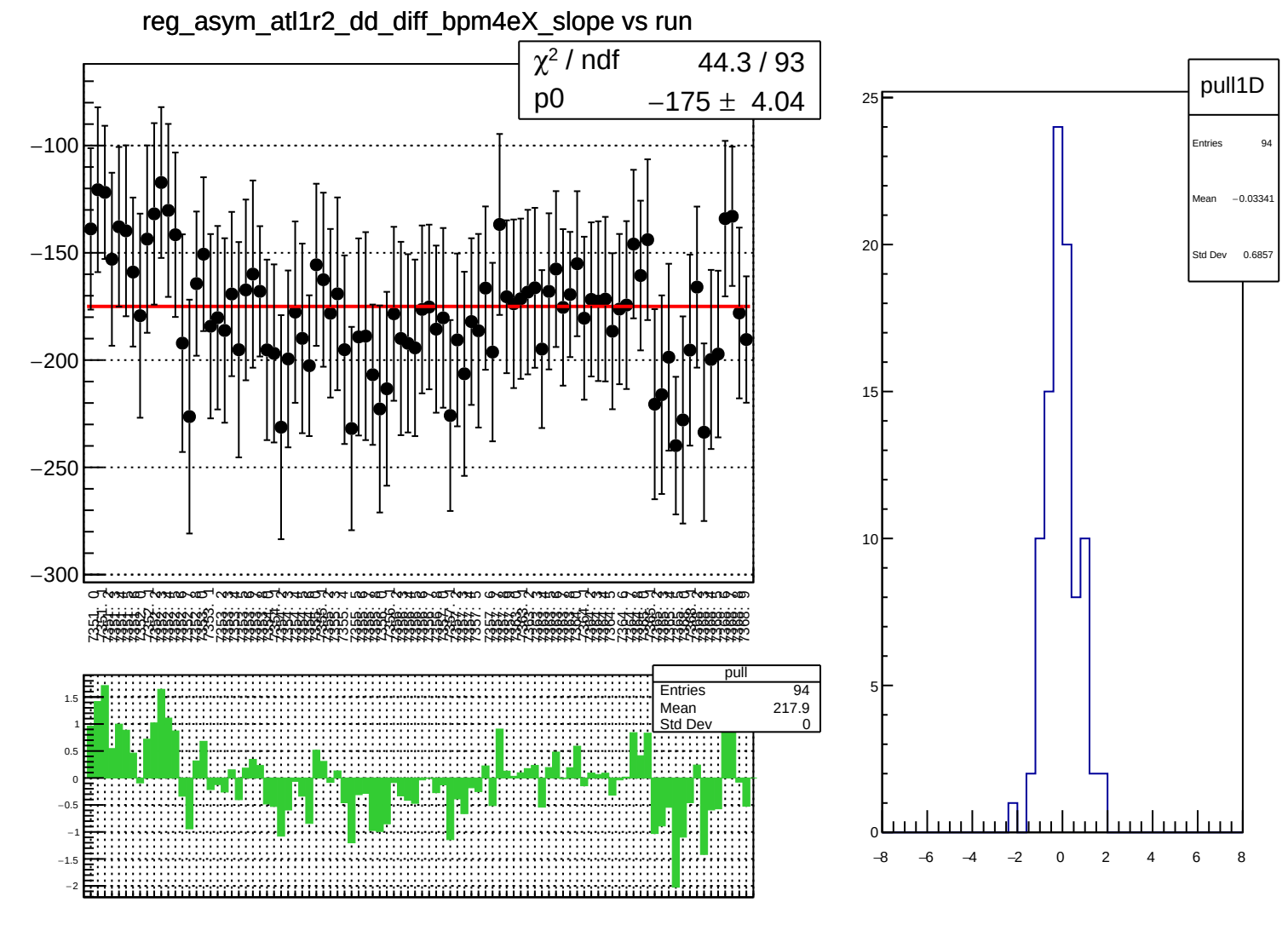

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 79.02 / 93
p0 −129.8 ± 0.2092
pull
Entries 94
Mean −903.4
Std Dev 0

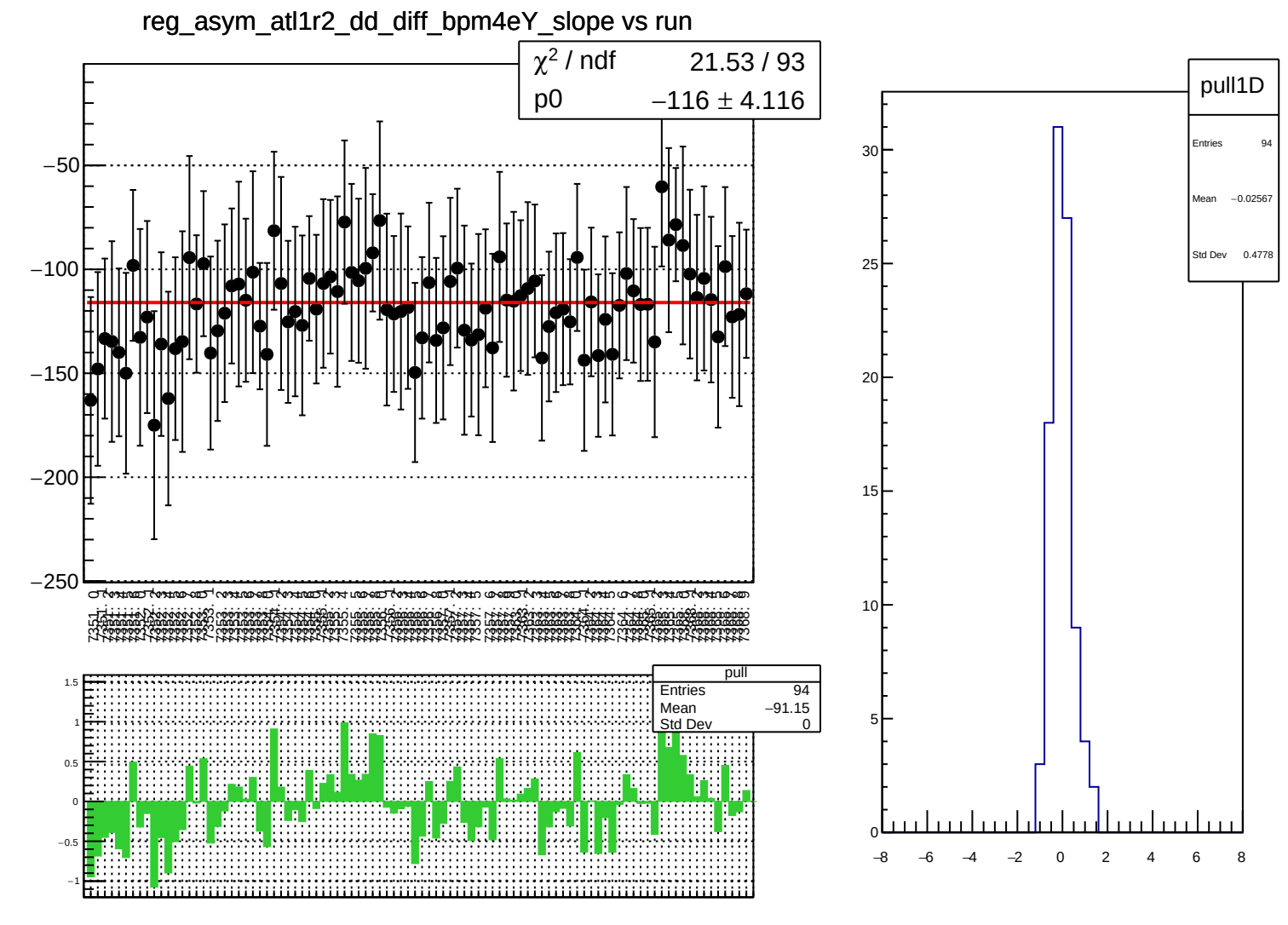

pull1D
Entries 94
Mean 0.01358
Std Dev 0.9167

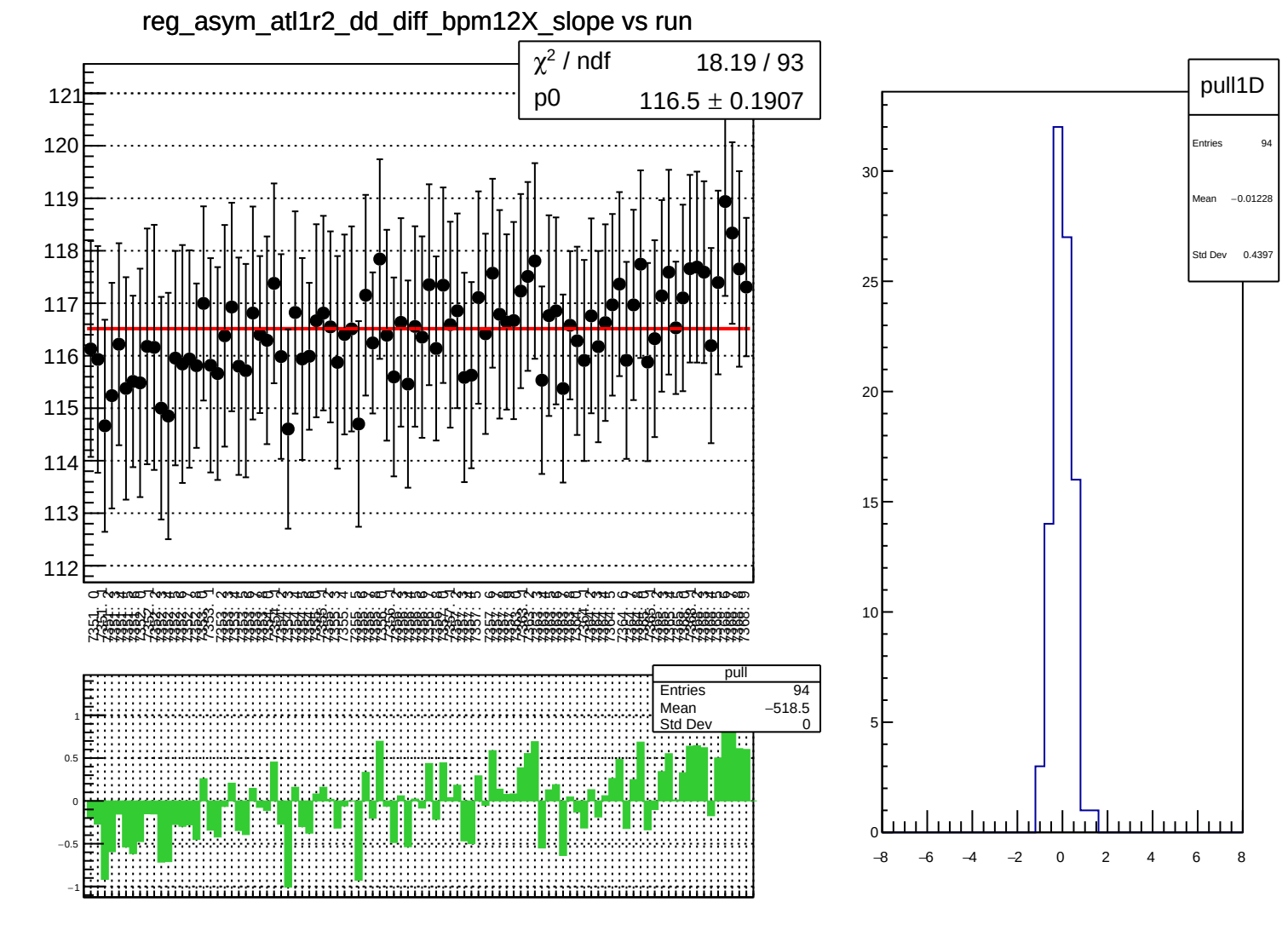

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 42.99 / 93
p0 144.5 ± 4.065
250
200
150
100
50
pull
Entries 94
Mean 211.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

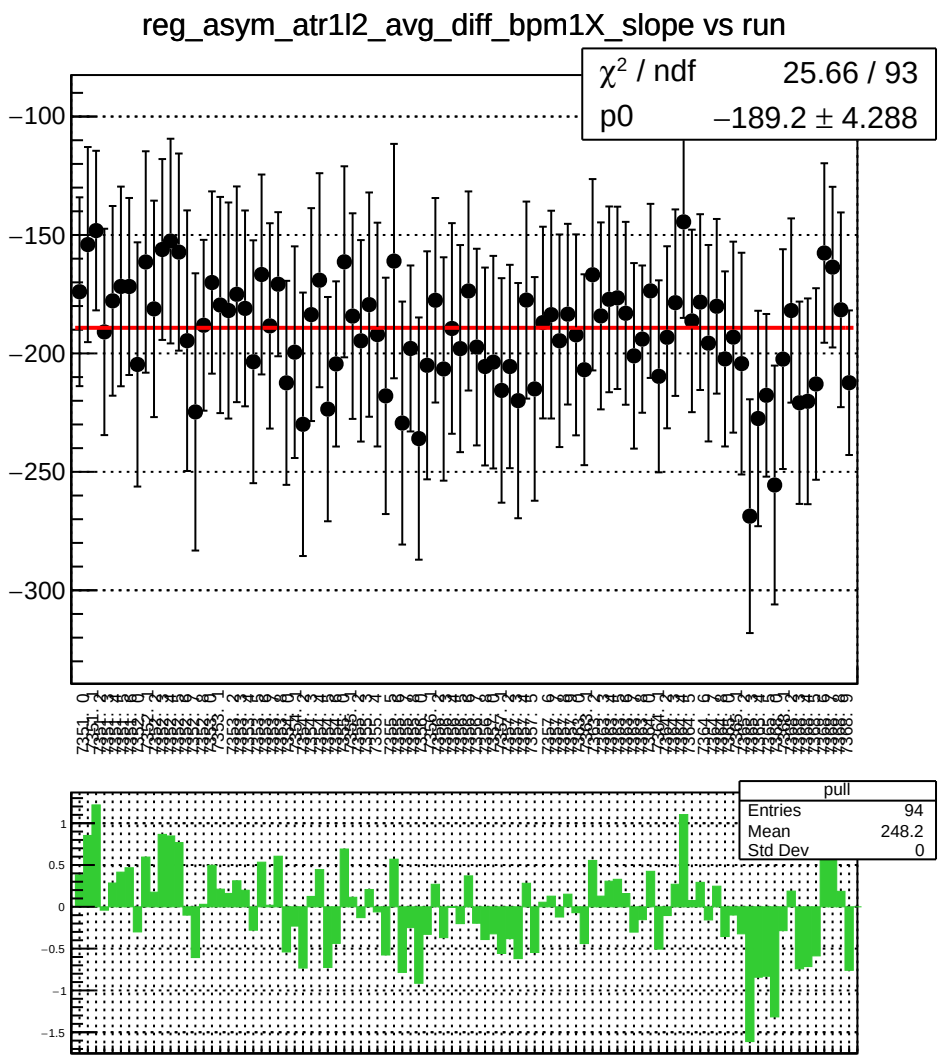

pull1D
Entries 94
Mean 0.03186
Std Dev 0.6755
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

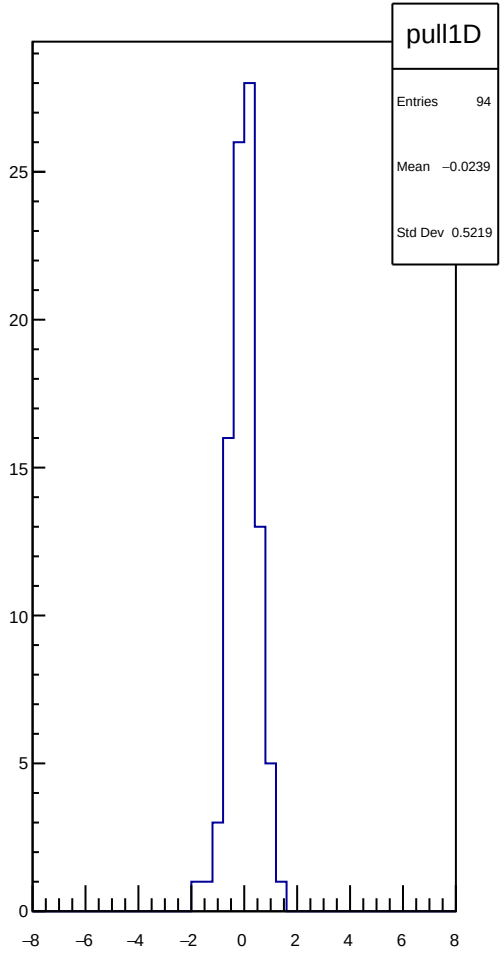

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 20.67 / 93
p0 45.59 ± 3.887
150
100
50
0
−50
pull
Entries 94
Mean −25.68
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 94
Mean 0.03145
Std Dev 0.4679
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

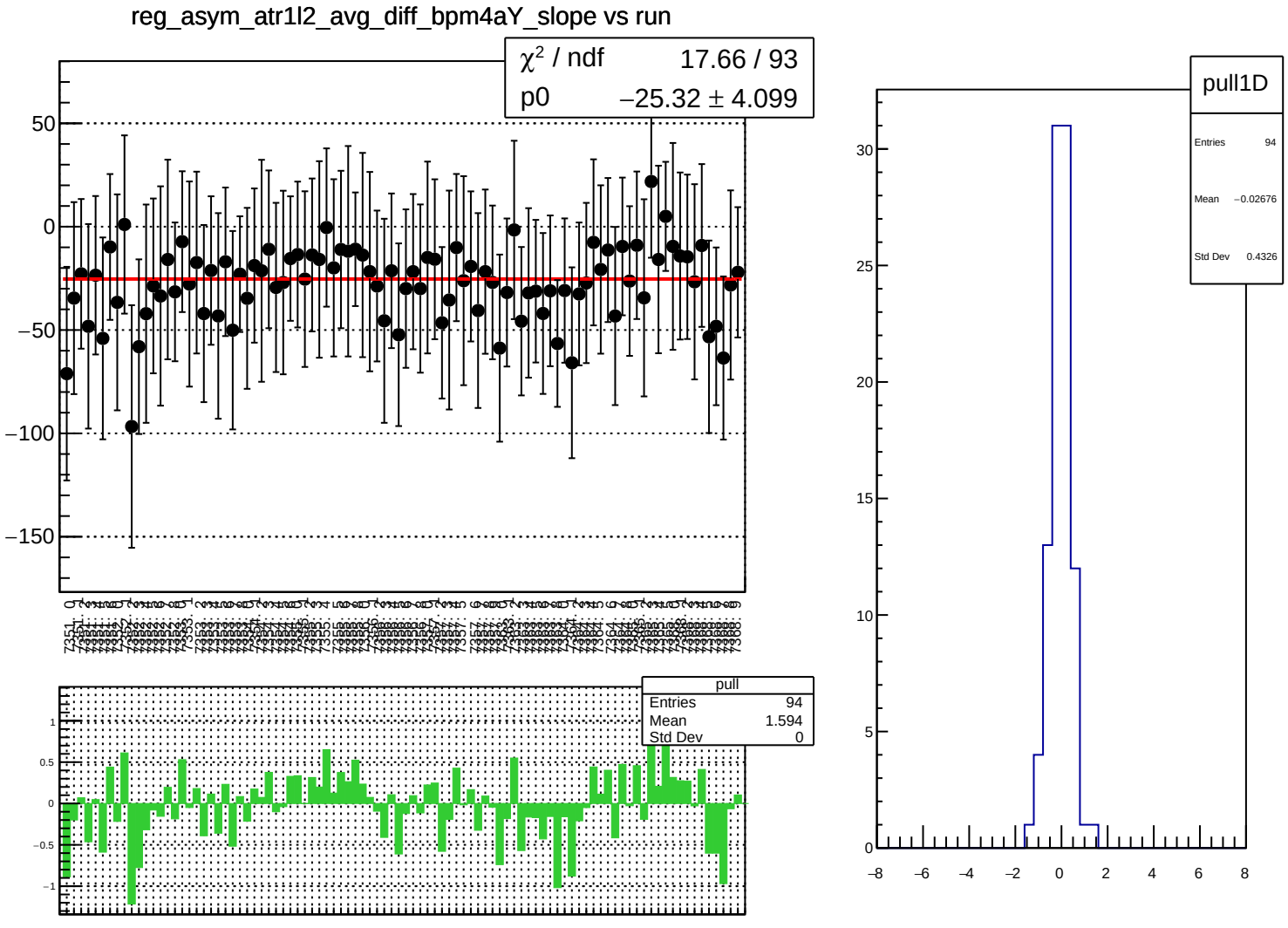

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 44.3 / 93
p0 −175 ± 4.04
−100
−150
−200
−250
−300
pull
Entries 94
Mean 217.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean −0.03341
Std Dev 0.6857
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

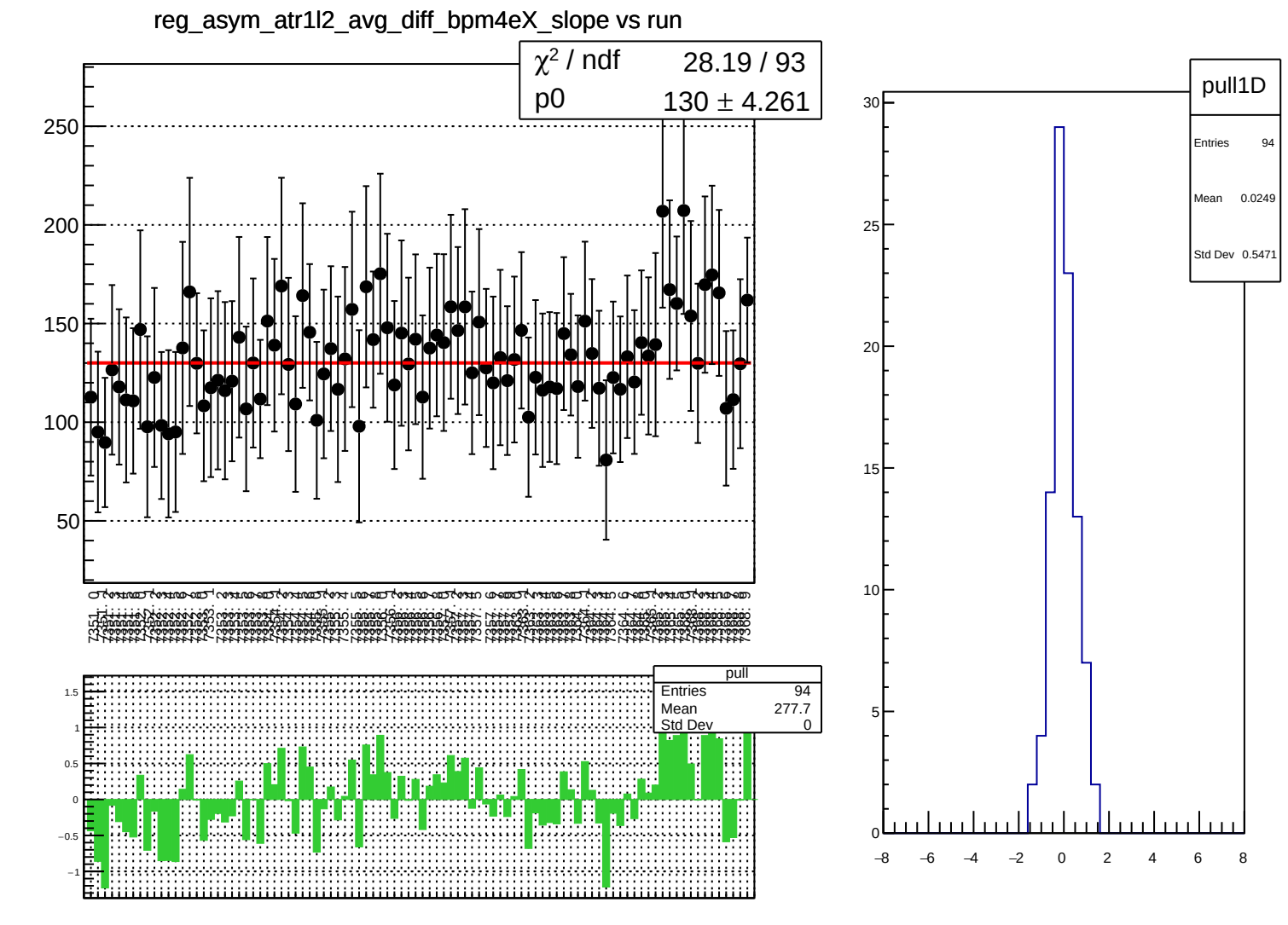

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 21.53 / 93
p0 −116 ± 4.116
−50
−100
−150
−200
−250
pull
Entries 94
Mean −91.15
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 94
Mean −0.02567
Std Dev 0.4778
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

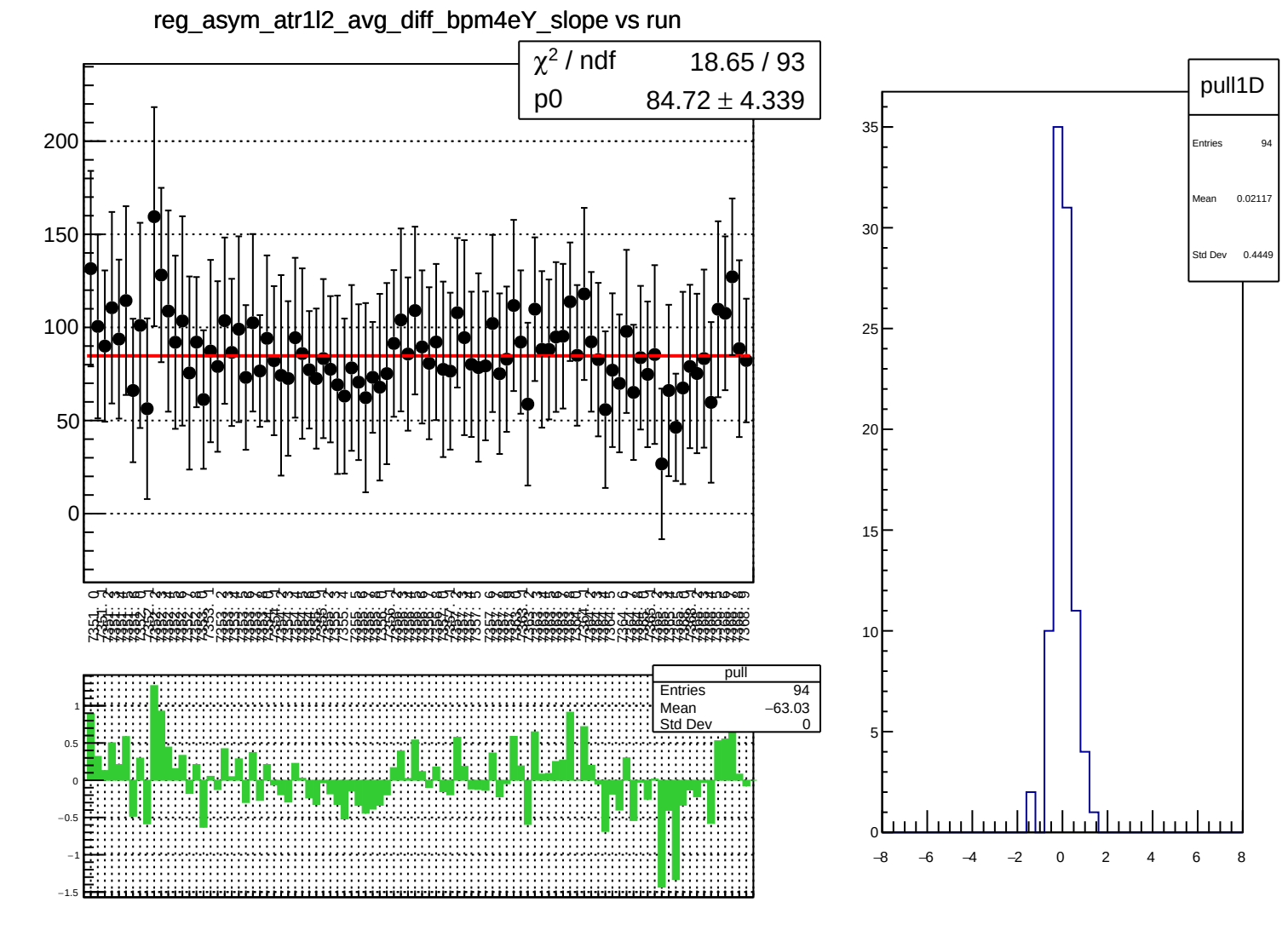

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 18.19 / 93
p0 116.5 ± 0.1907
121
120
119
118
117
116
115
114
113
112
pull
Entries 94
Mean −518.5
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 94
Mean −0.01228
Std Dev 0.4397
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

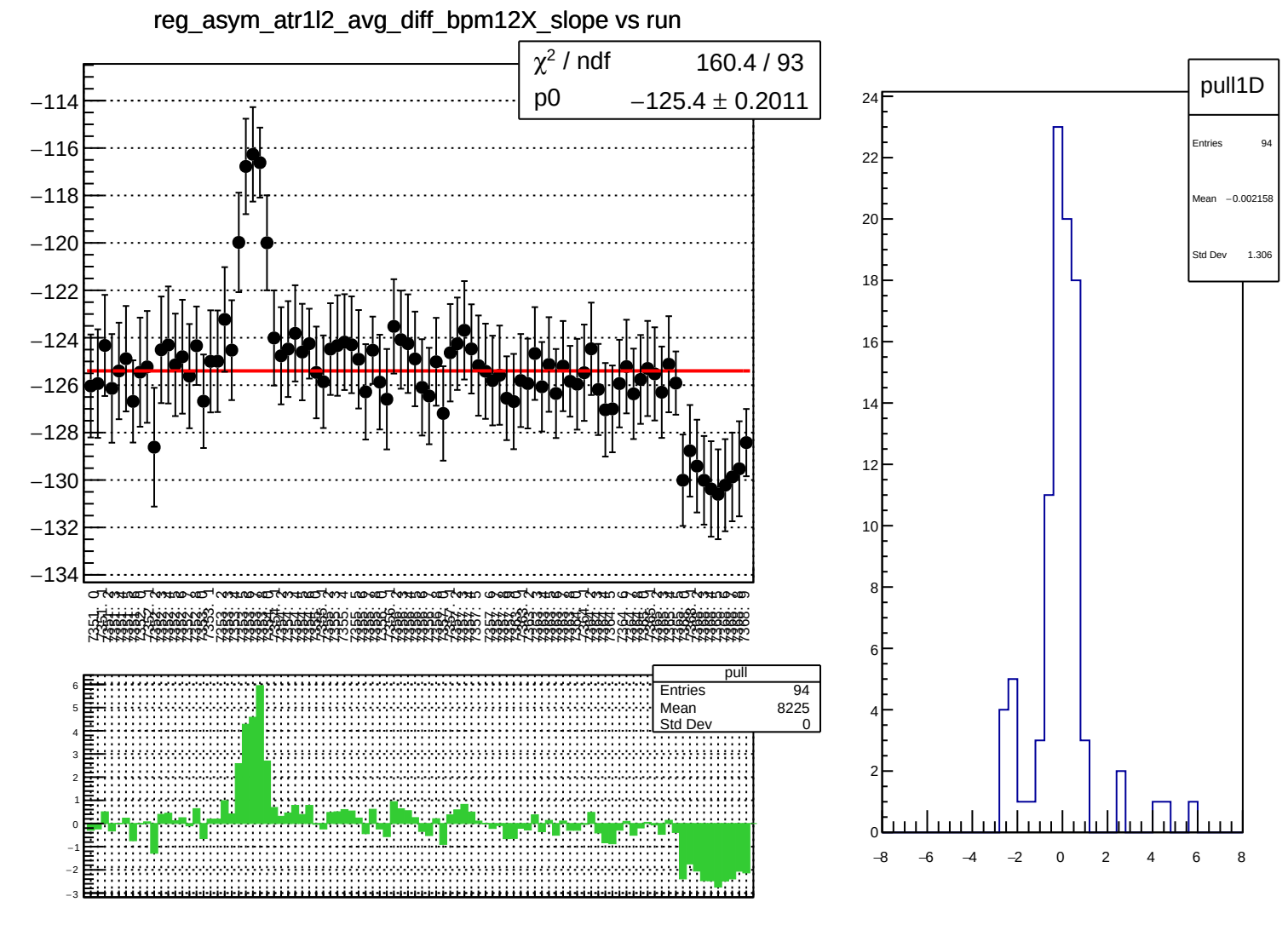

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 25.66 / 93
p0 −189.2 ± 4.288
−100
−150
−200
−250
−300
pull
Entries 94
Mean 248.2
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

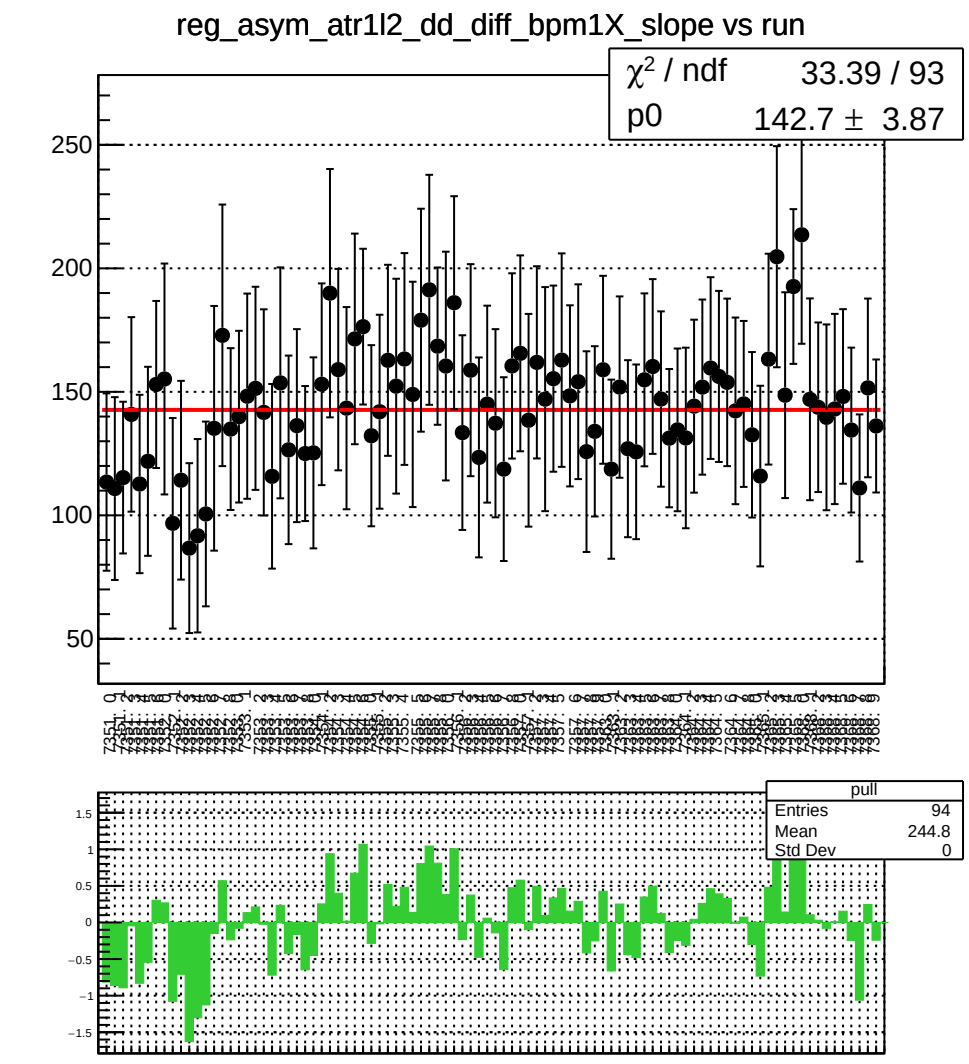

pull1D
Entries 94
Mean −0.0239
Std Dev 0.5219
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

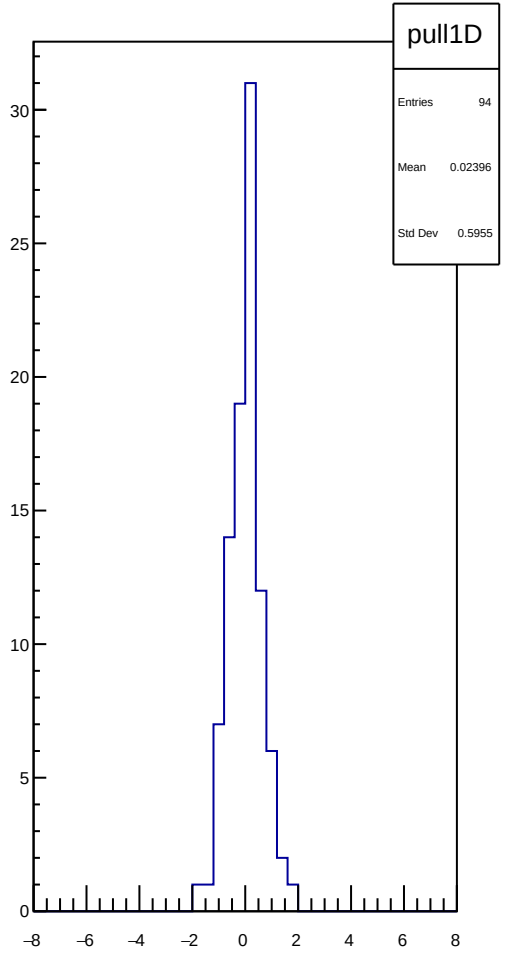

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 17.66 / 93
p0 −25.32 ± 4.099
50
0
−50
−100
−150
pull
Entries 94
Mean 1.594
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 94
Mean −0.02676
Std Dev 0.4326
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

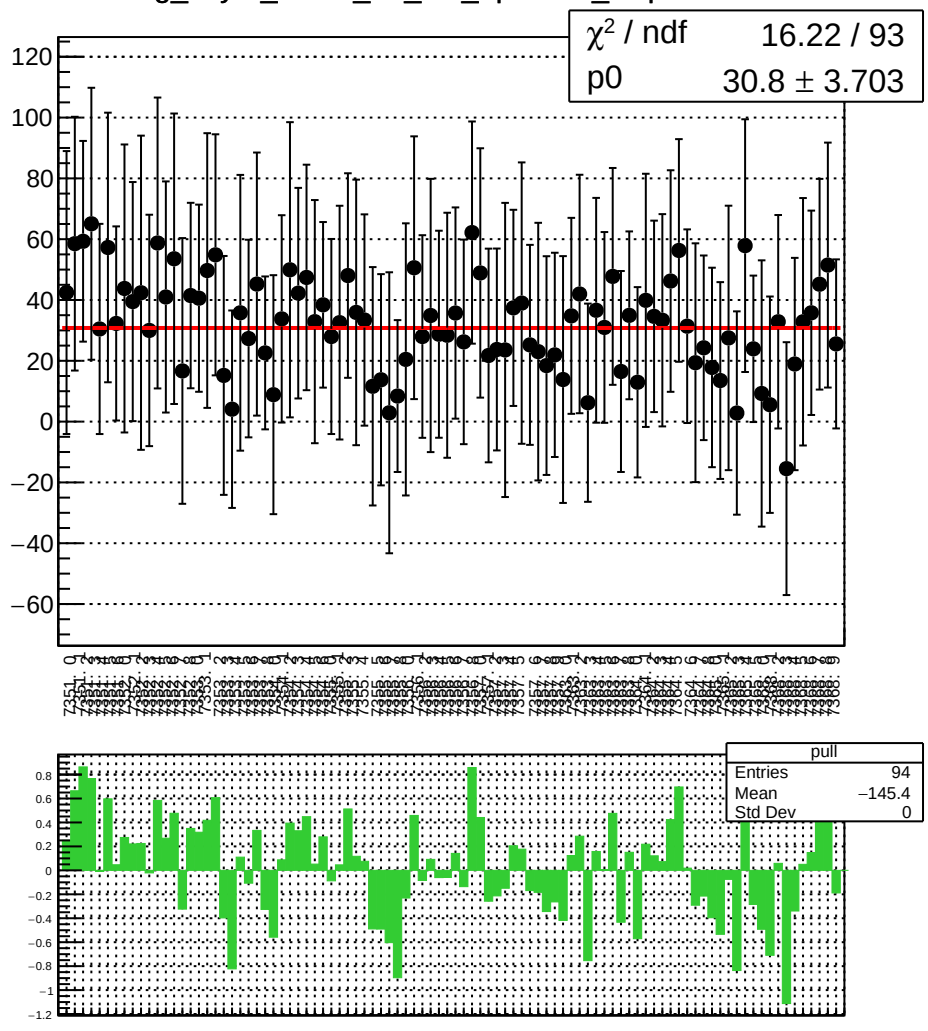

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 28.19 / 93
p0 130 ± 4.261
250
200
150
100
50
pull
Entries 94
Mean 277.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 94
Mean 0.0249
Std Dev 0.5471
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

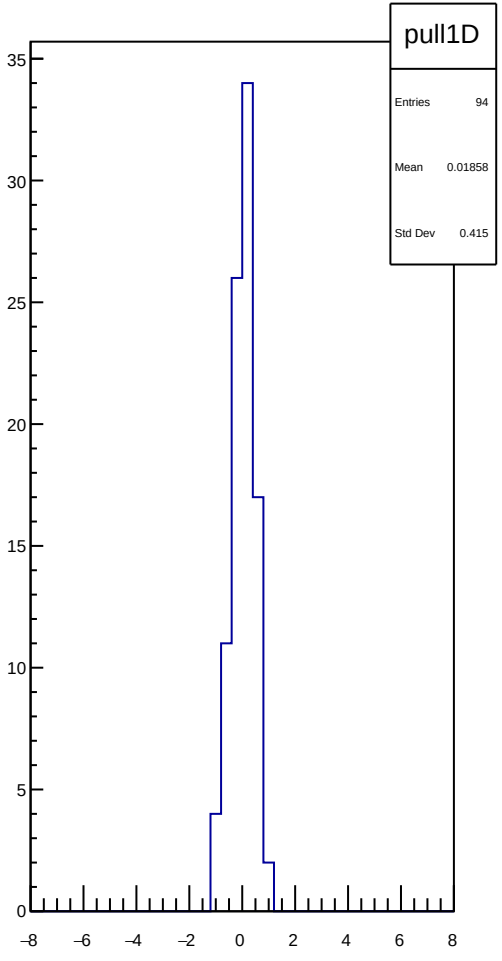

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 18.65 / 93
p0 84.72 ± 4.339
200
150
100
50
0
pull
Entries 94
Mean −63.03
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 94
Mean 0.02117
Std Dev 0.4449
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

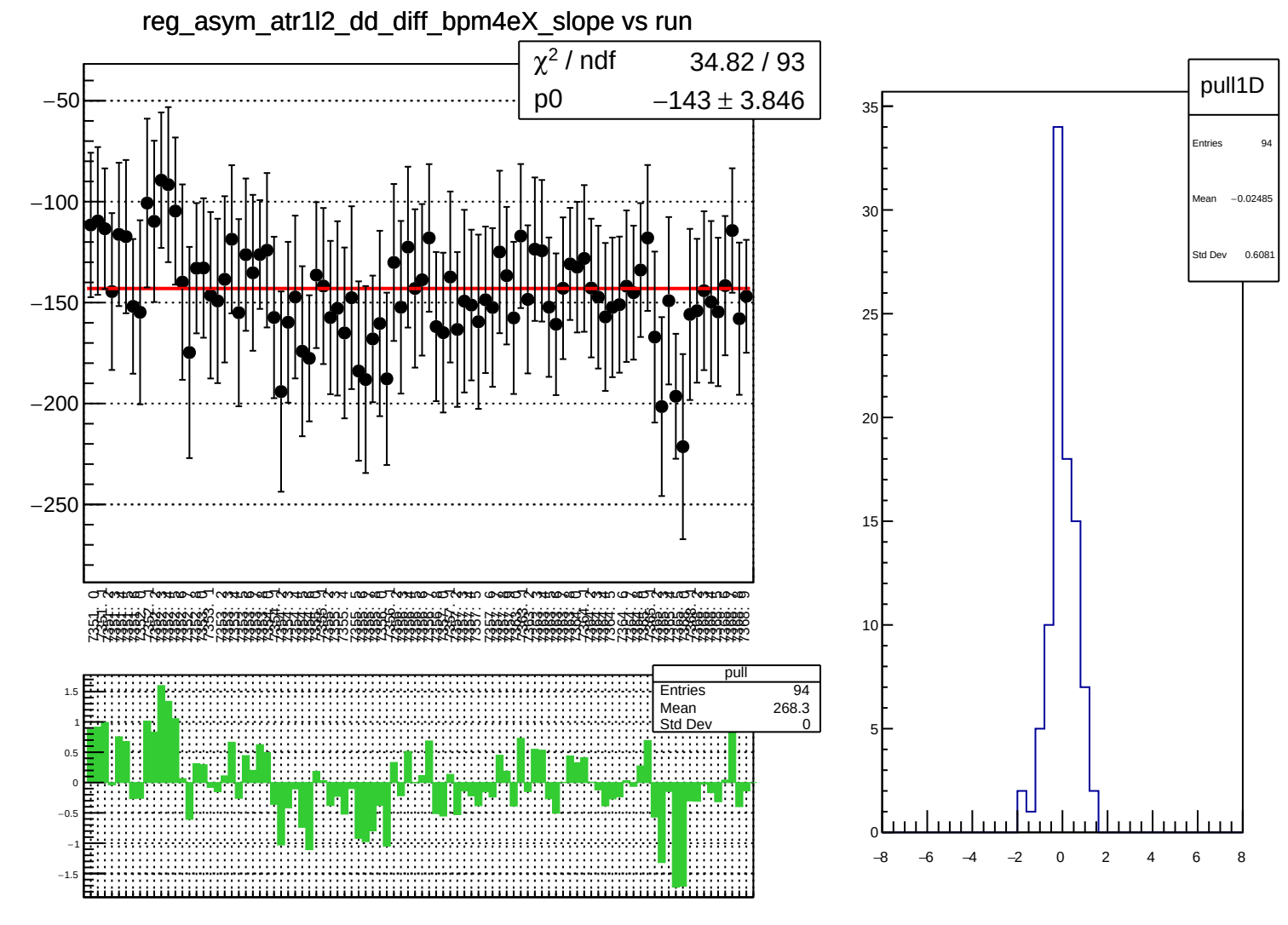

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 160.4 / 93
p0 −125.4 ± 0.2011
pull
Entries 94
Mean 8225
Std Dev 0
pull1D
Entries 94
Mean −0.002158
Std Dev 1.306

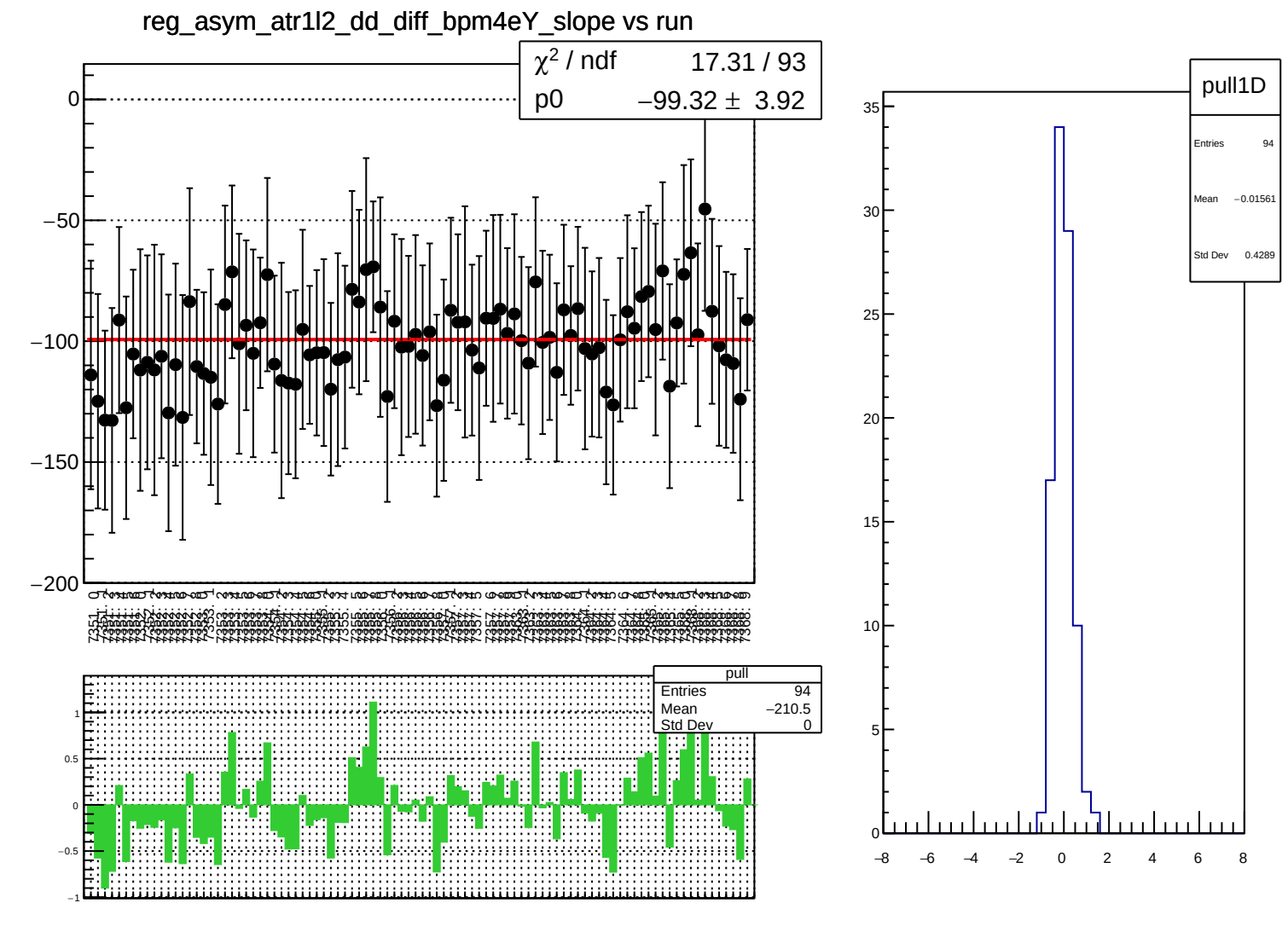

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 33.39 / 93
p0 142.7 ± 3.87
250
200
150
100
50
pull
Entries 94
Mean 244.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

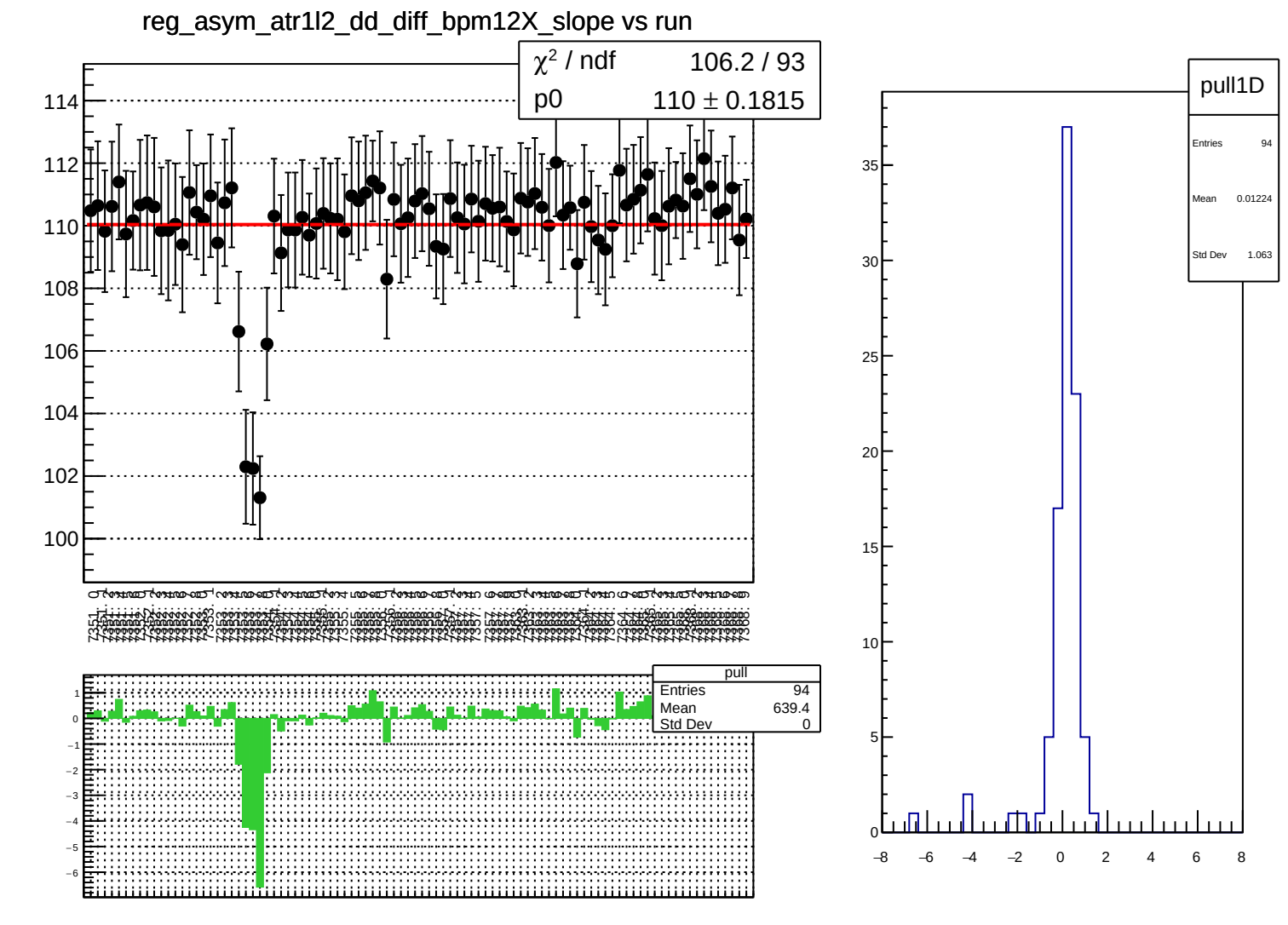

pull1D
Entries 94
Mean 0.02396
Std Dev 0.5955
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

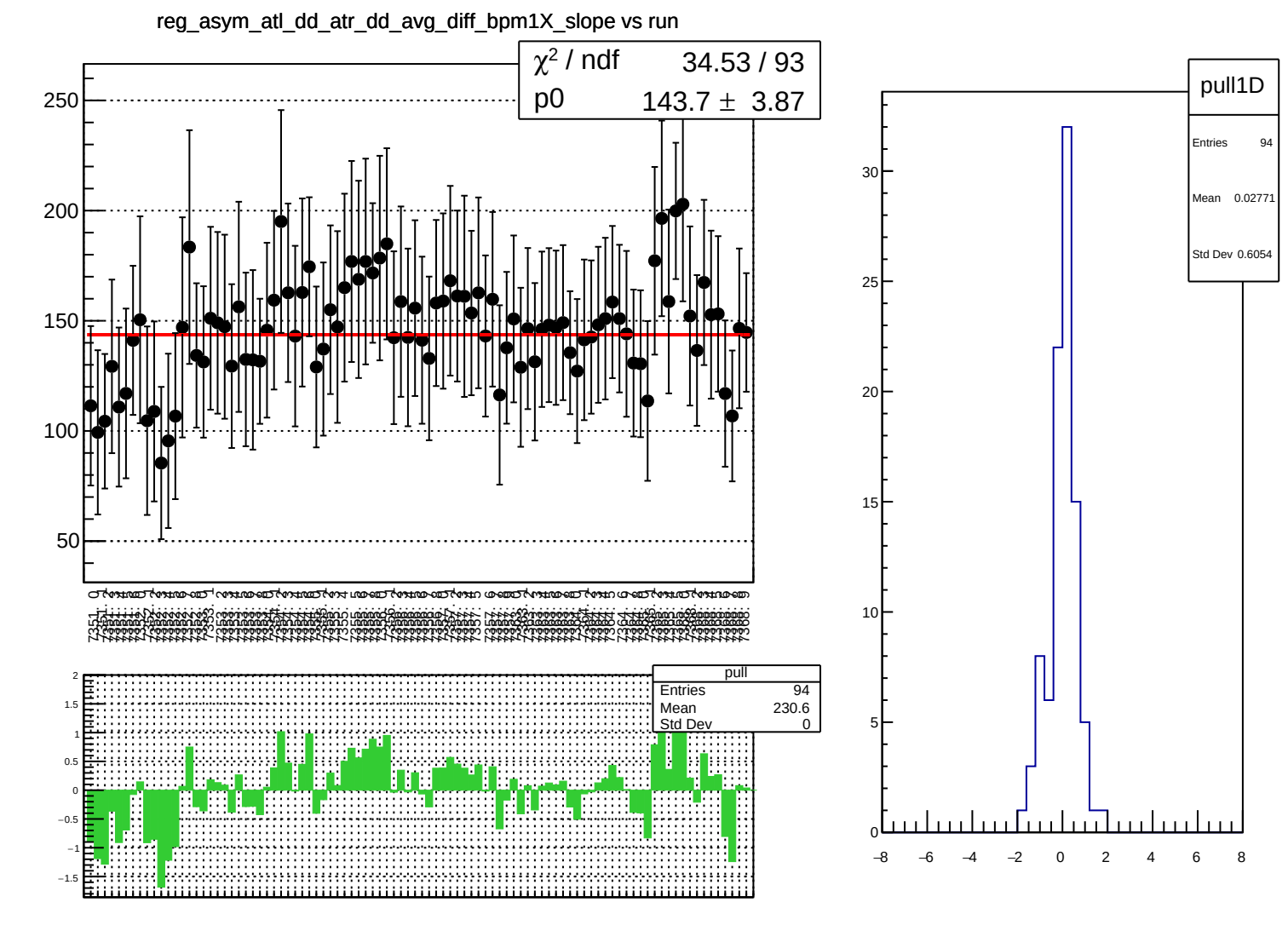

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 16.22 / 93
p0 30.8 ± 3.703
pull
Entries 94
Mean −145.4
Std Dev 0

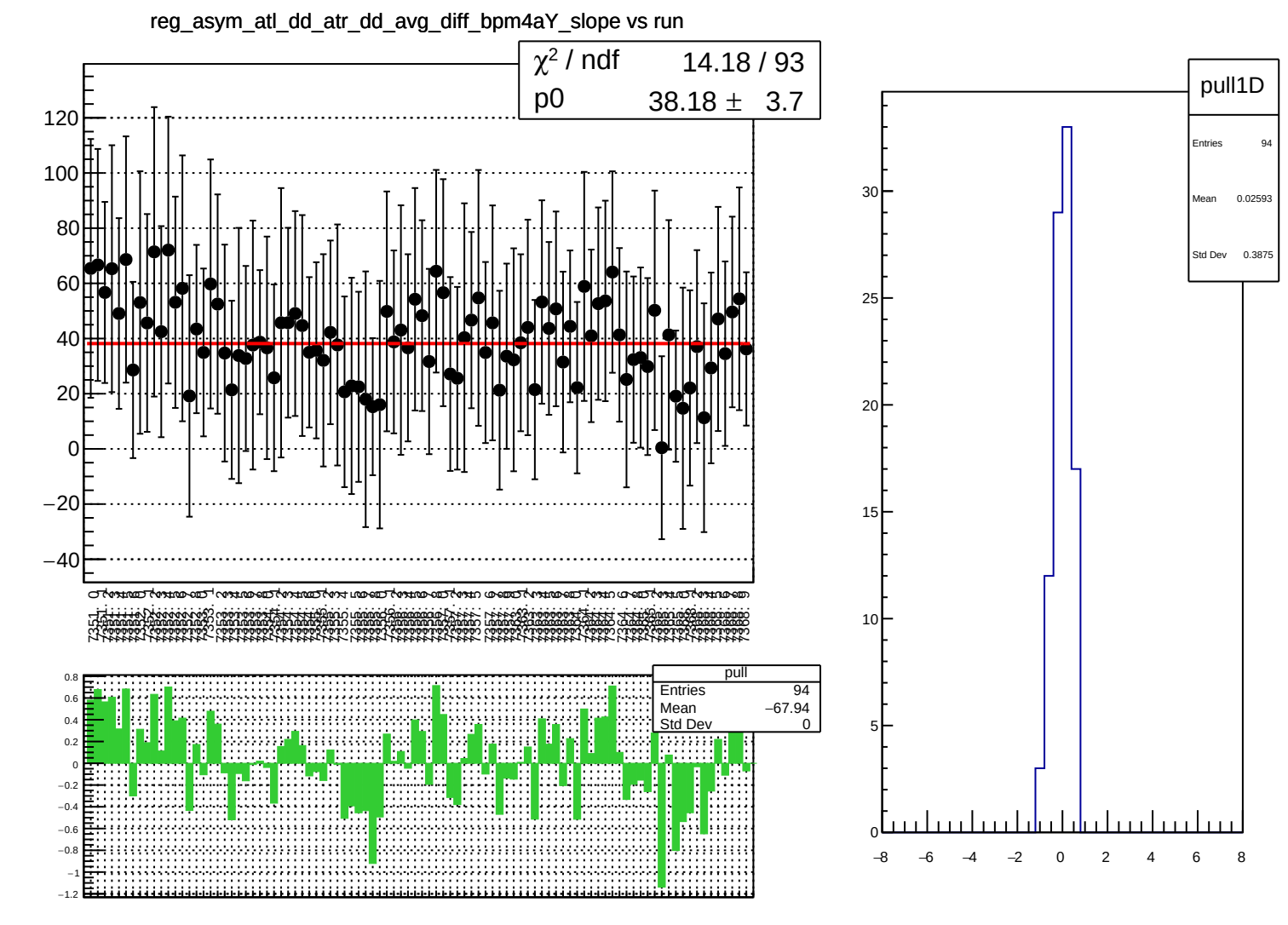

pull1D
Entries 94
Mean 0.01858
Std Dev 0.415

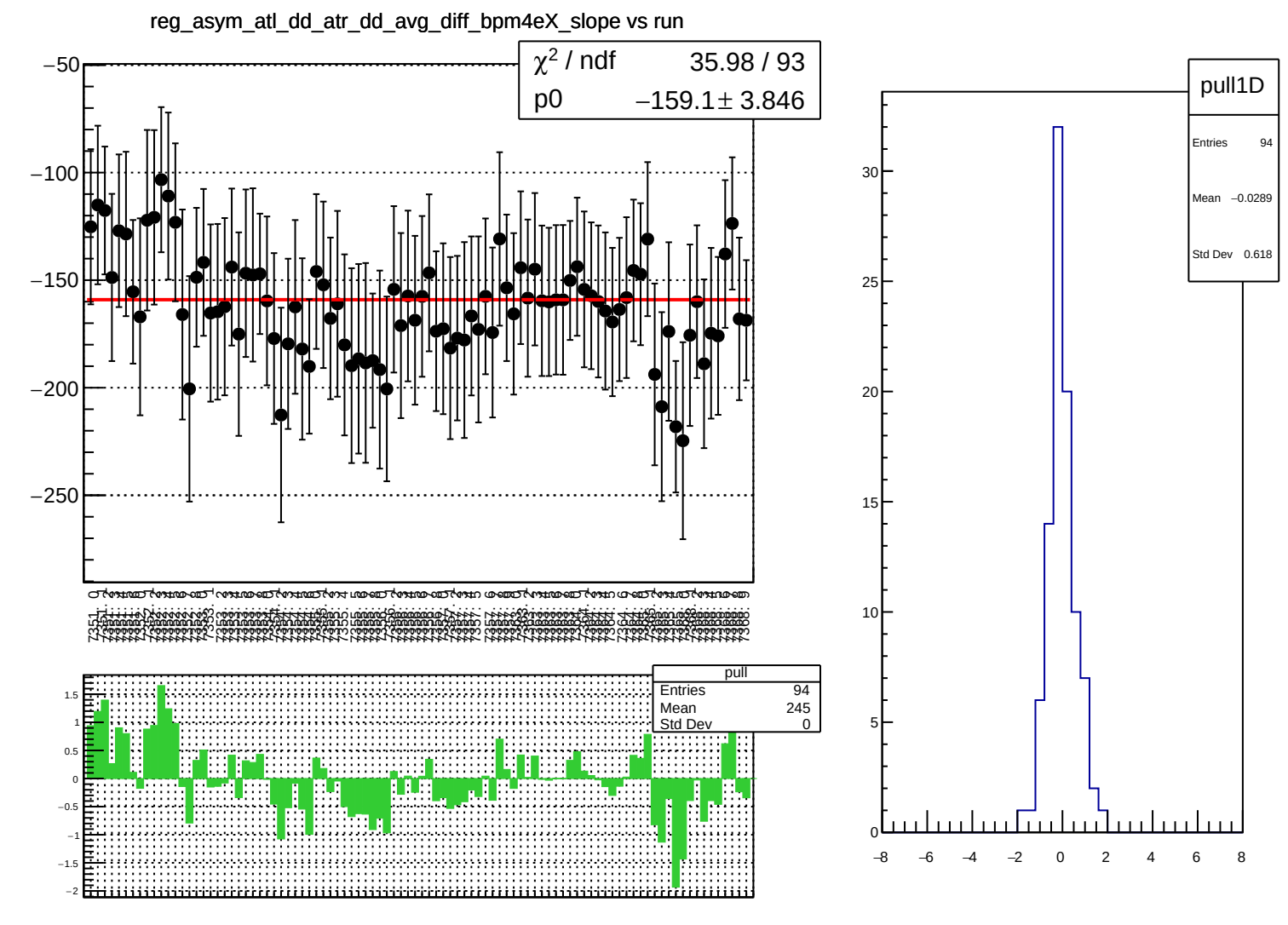

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 34.82 / 93
p0 −143 ± 3.846
−50
−100
−150
−200
−250
pull
Entries 94
Mean 268.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 94
Mean −0.02485
Std Dev 0.6081
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

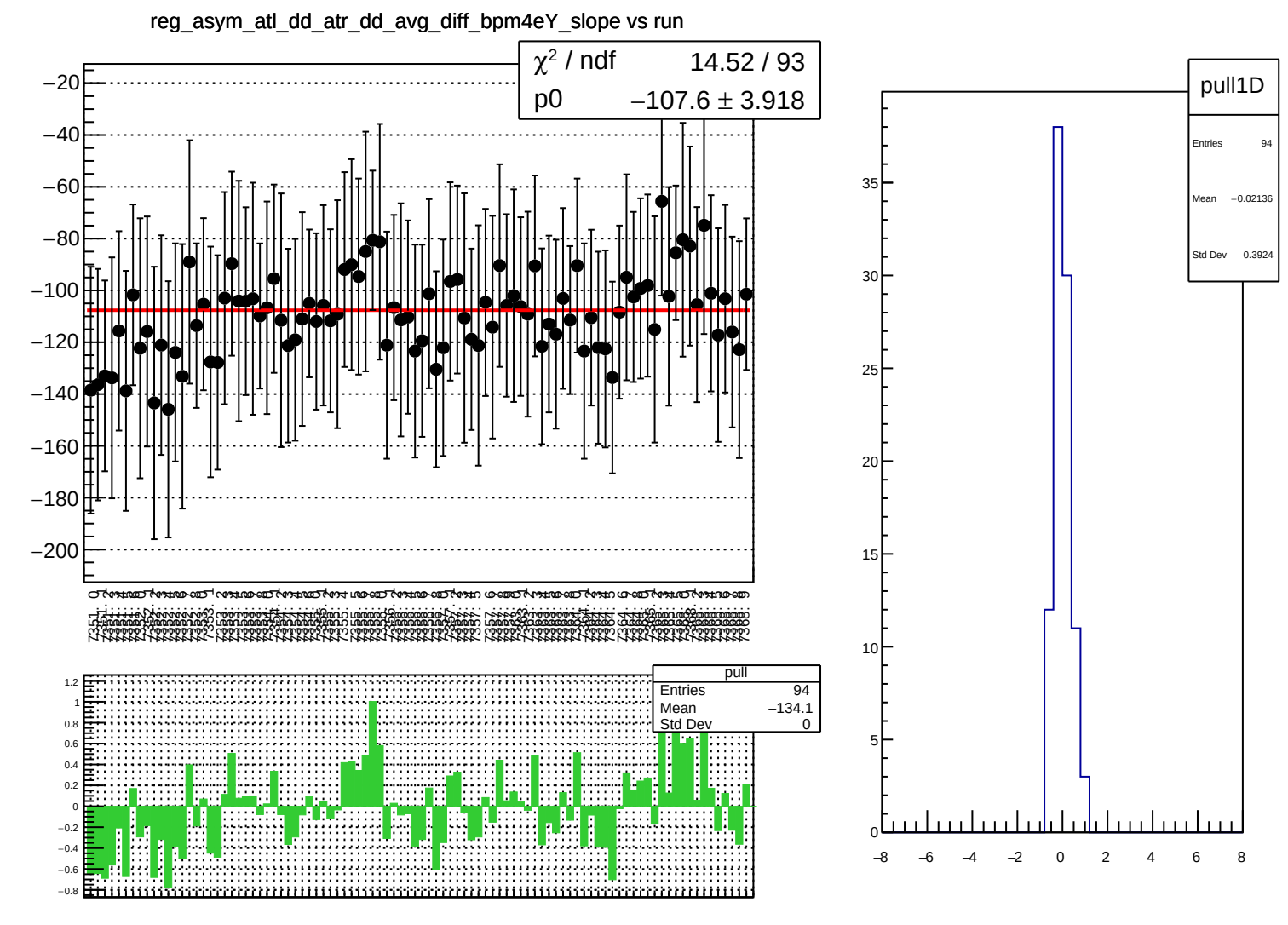

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 17.31 / 93
p0 −99.32 ± 3.92
0
−50
−100
−150
−200
pull
Entries 94
Mean −210.5
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 94
Mean −0.01561
Std Dev 0.4289
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

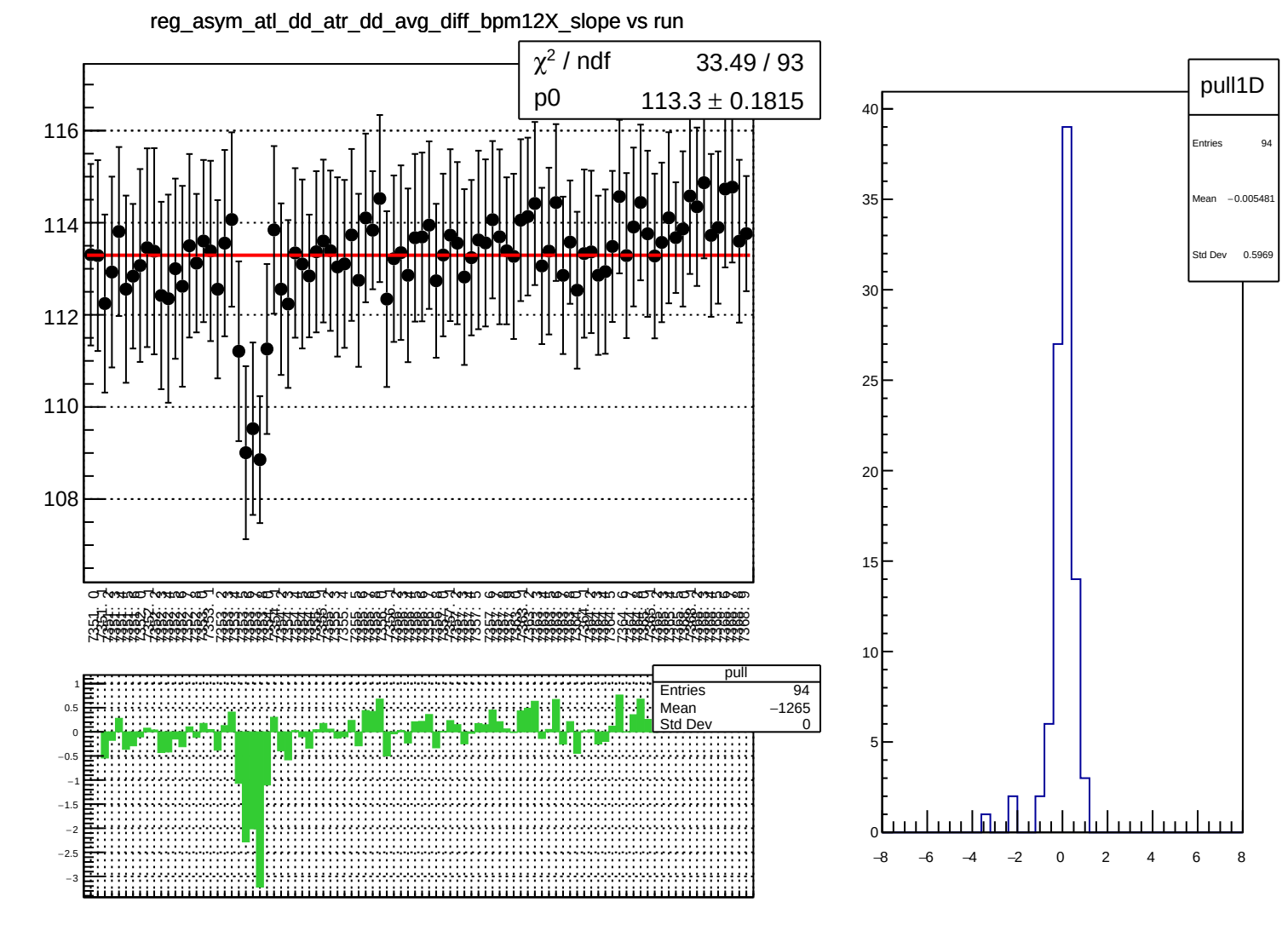

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 106.2 / 93
p0 110 ± 0.1815
pull
Entries 94
Mean 639.4
Std Dev 0
pull1D
Entries 94
Mean 0.01224
Std Dev 1.063

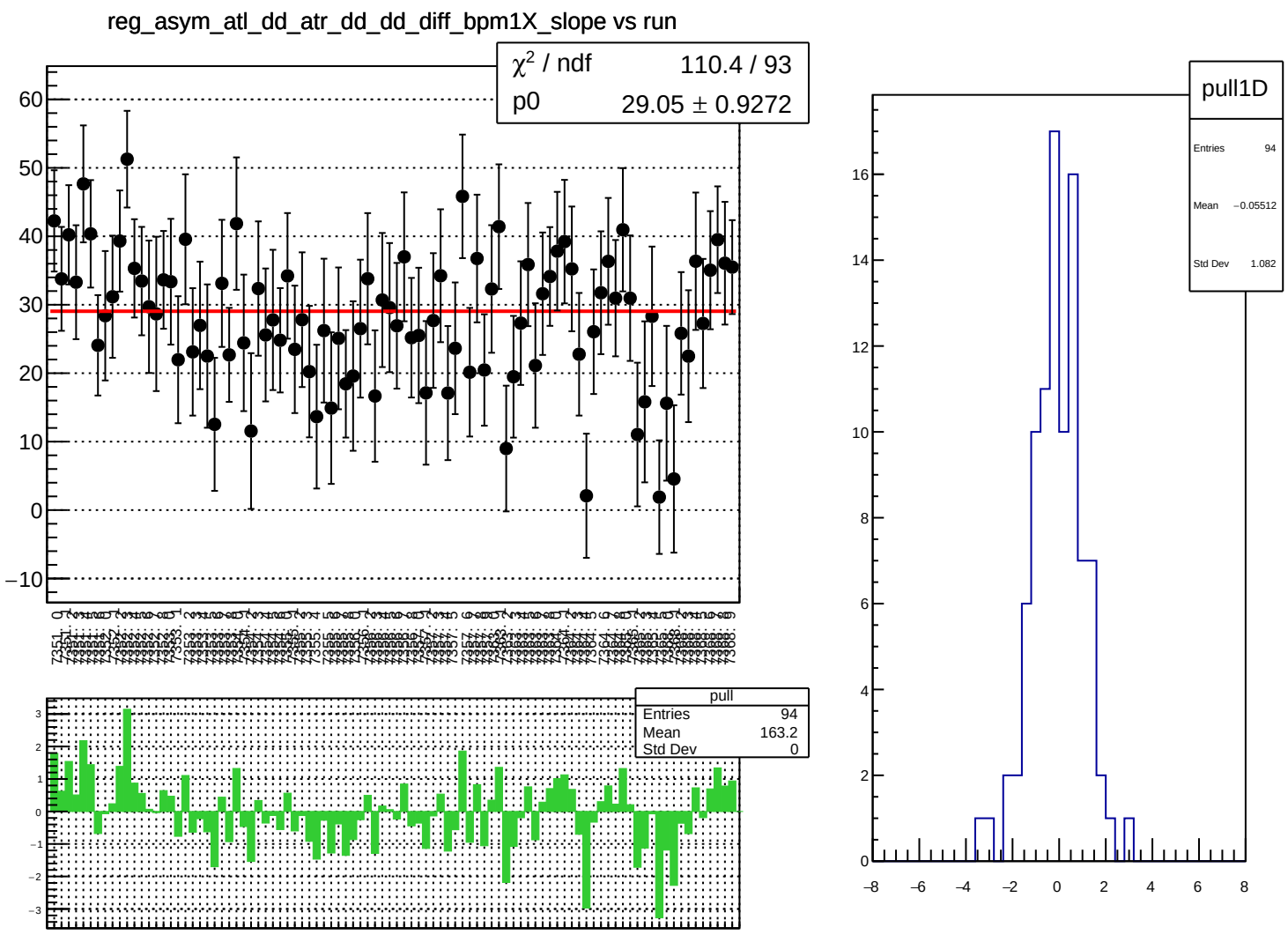

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 34.53 / 93
p0 143.7 ± 3.87
250
200
150
100
50
pull
Entries 94
Mean 230.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 94
Mean 0.02771
Std Dev 0.6054
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

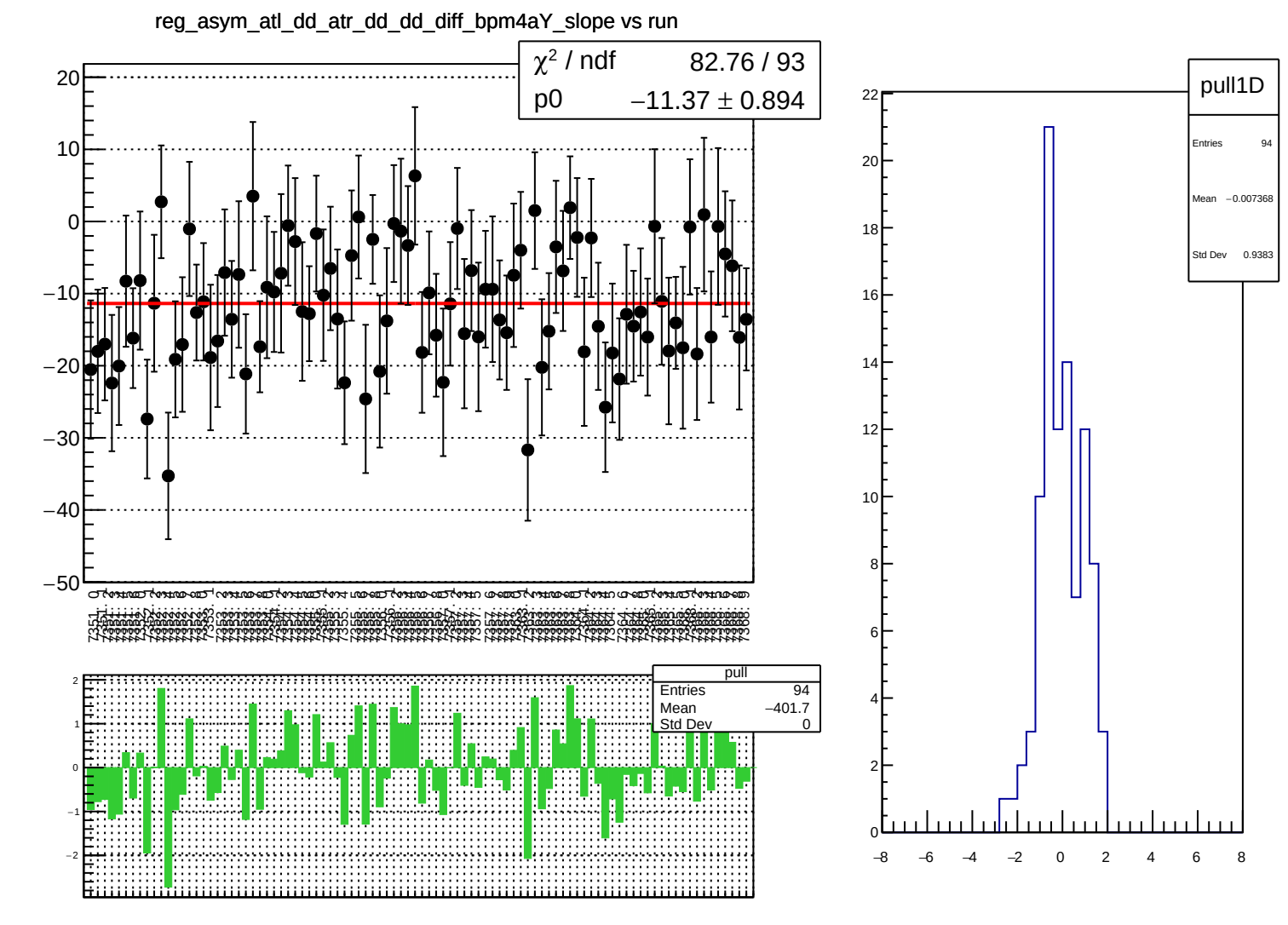

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 14.18 / 93
p0 38.18 ± 3.7
pull
Entries 94
Mean −67.94
Std Dev 0
pull1D
Entries 94
Mean 0.02593
Std Dev 0.3875

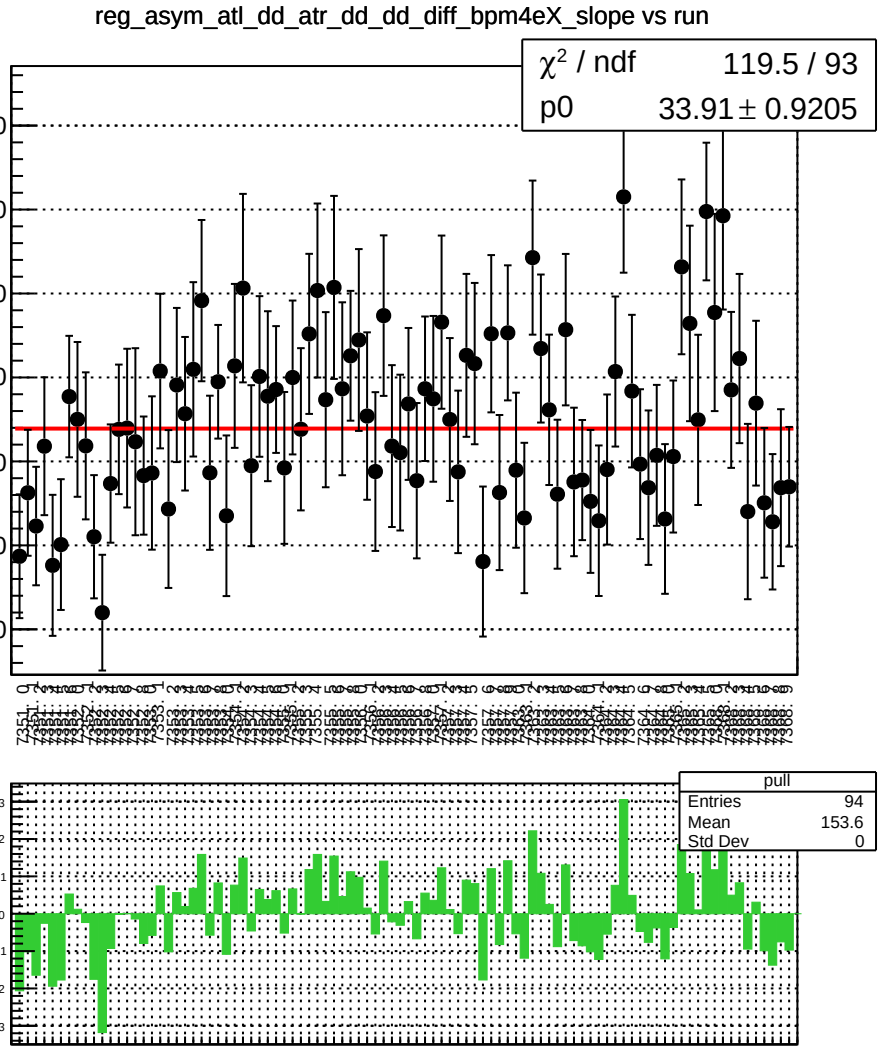

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 35.98 / 93
p0 −159.1± 3.846
−50
−100
−150
−200
−250
pull
Entries 94
Mean 245
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean −0.0289
Std Dev 0.618
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

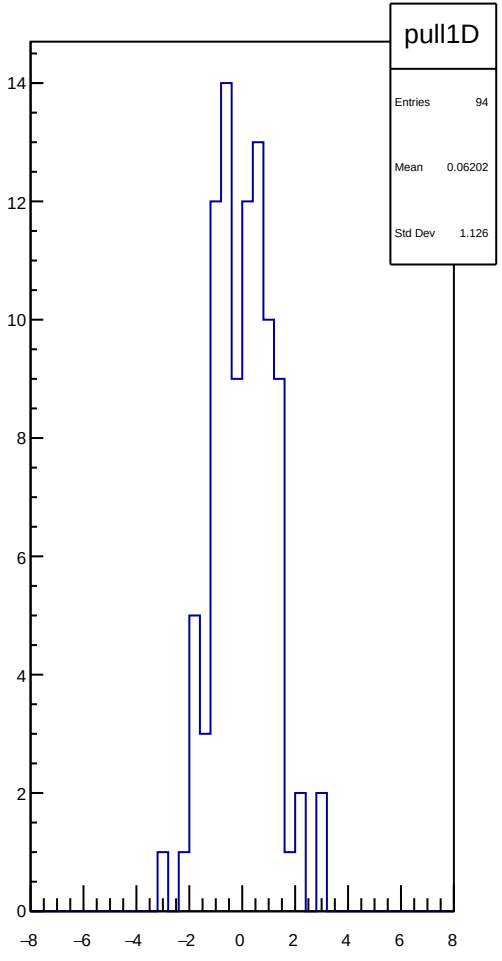

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 14.52 / 93
p0 −107.6 ± 3.918
pull
Entries 94
Mean −134.1
Std Dev 0
pull1D
Entries 94
Mean −0.02136
Std Dev 0.3924

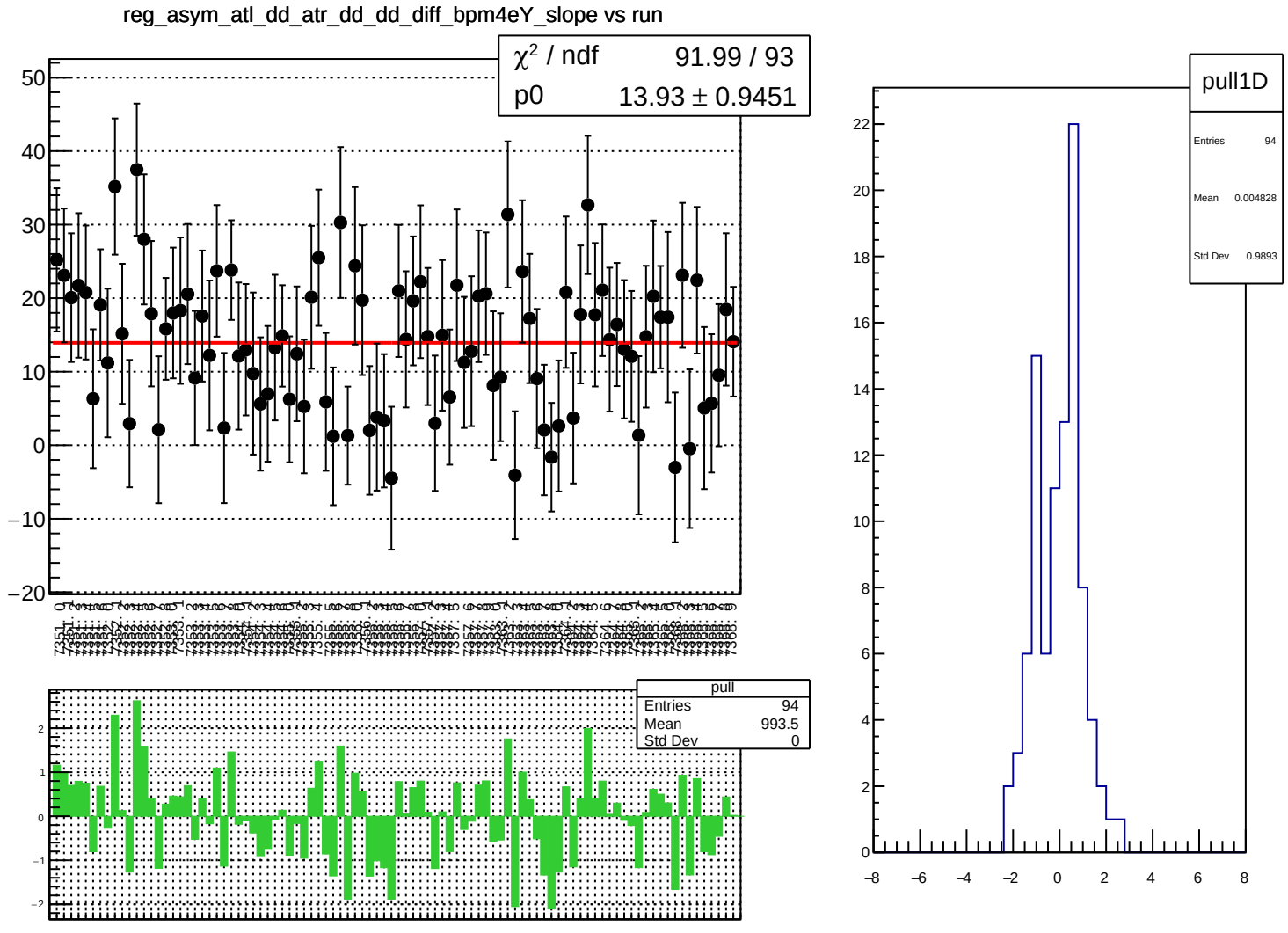

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 33.49 / 93
p0 113.3 ± 0.1815
116
114
112
110
108
pull
Entries 94
Mean −1265
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 94
Mean −0.005481
Std Dev 0.5969
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

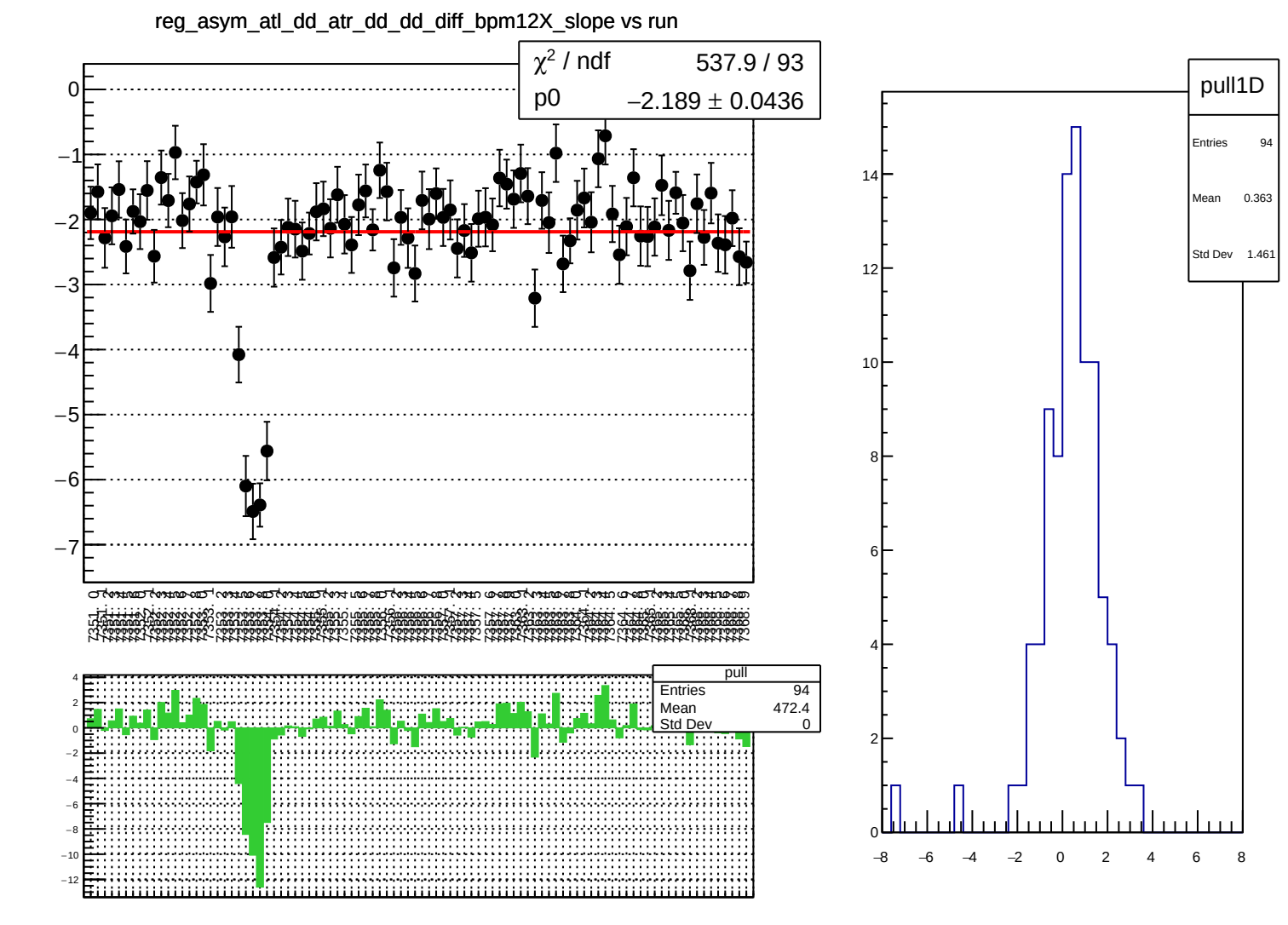

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 110.4 / 93
p0 29.05 ± 0.9272
pull
Entries 94
Mean 163.2
Std Dev 0
pull1D
Entries 94
Mean −0.05512
Std Dev 1.082

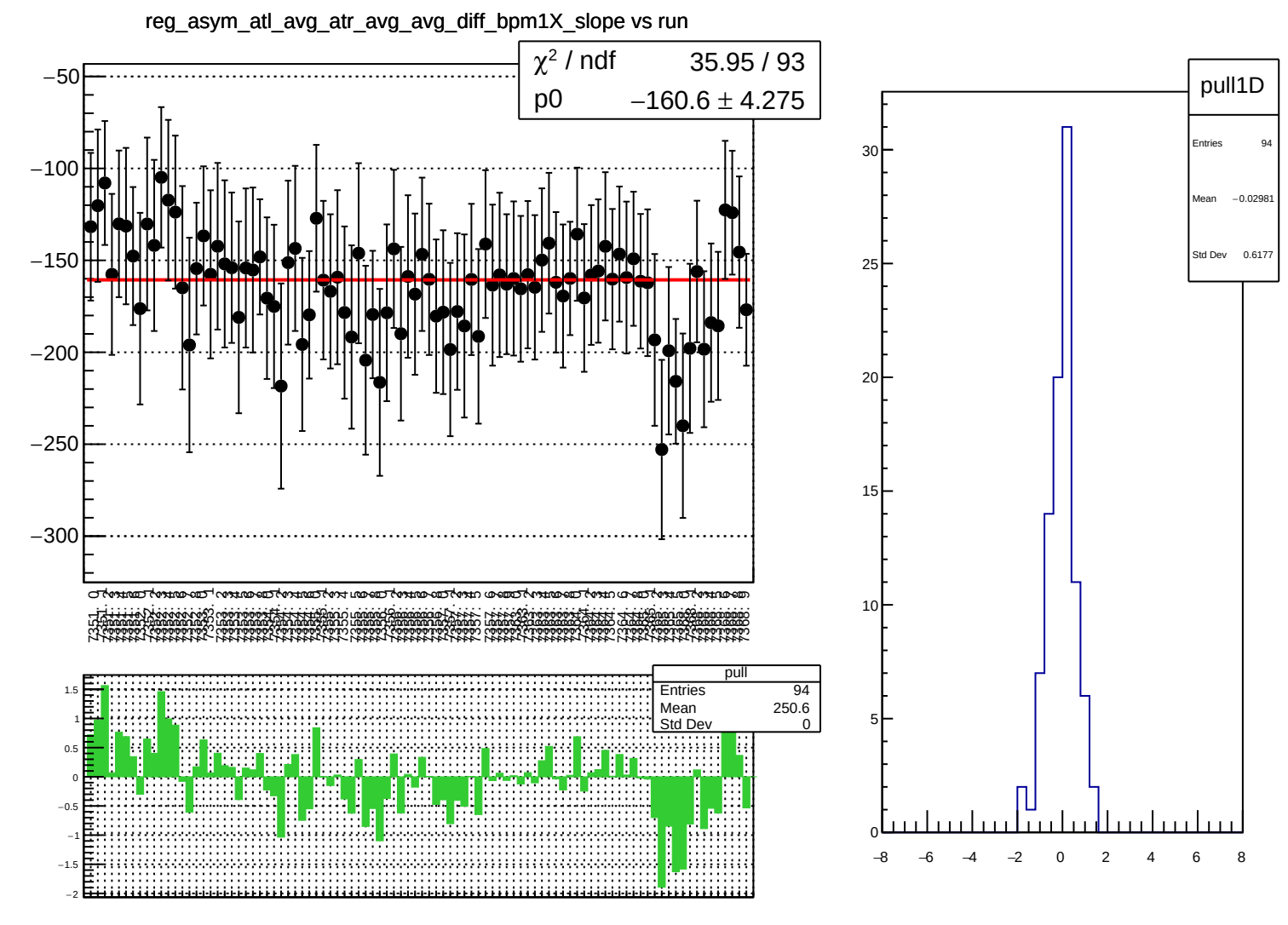

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 82.76 / 93
p0 −11.37 ± 0.894
pull
Entries 94
Mean −401.7
Std Dev 0
pull1D
Entries 94
Mean −0.007368
Std Dev 0.9383

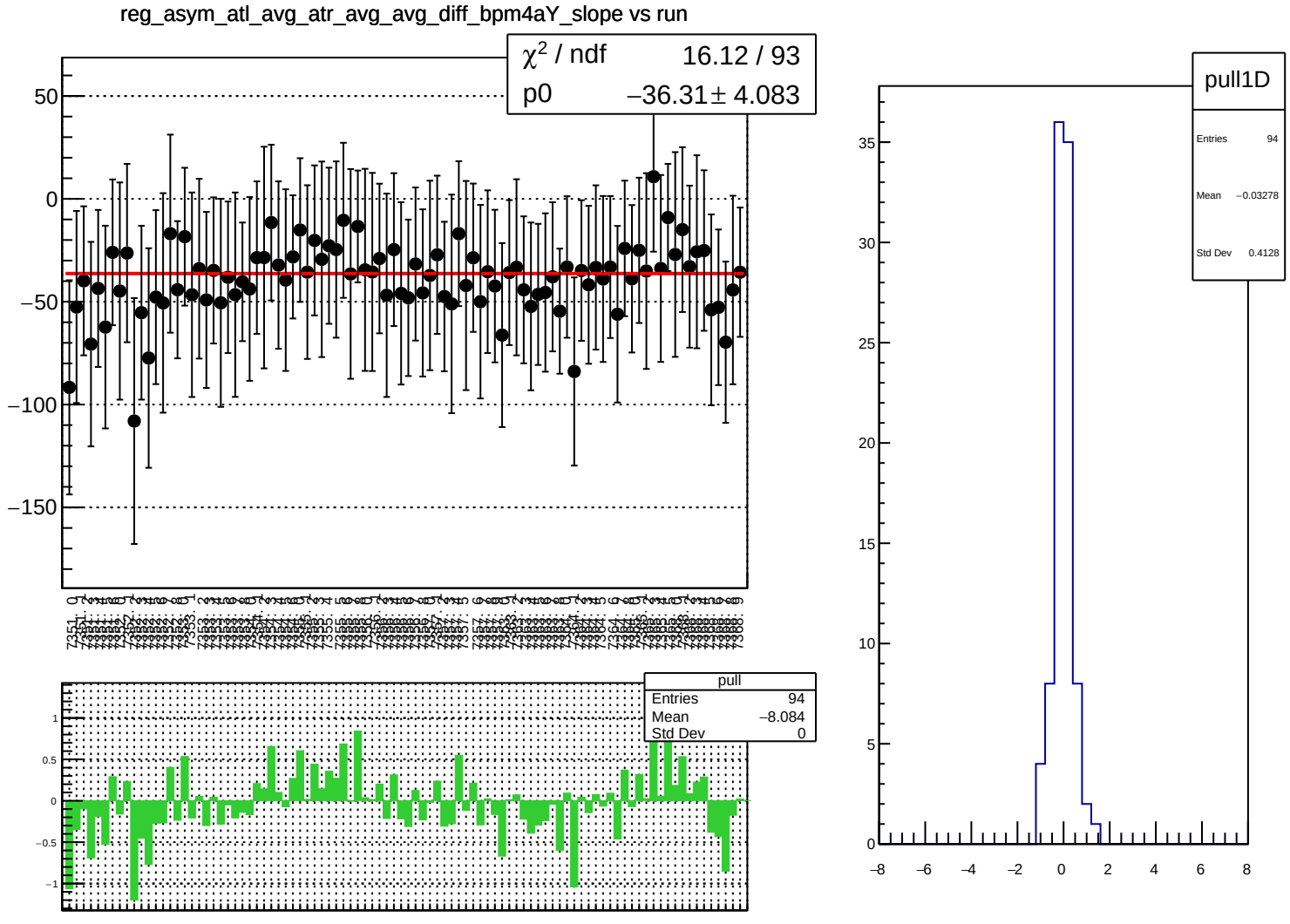

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 119.5 / 93
p0 33.91 ± 0.9205
pull
Entries 94
Mean 153.6
Std Dev 0

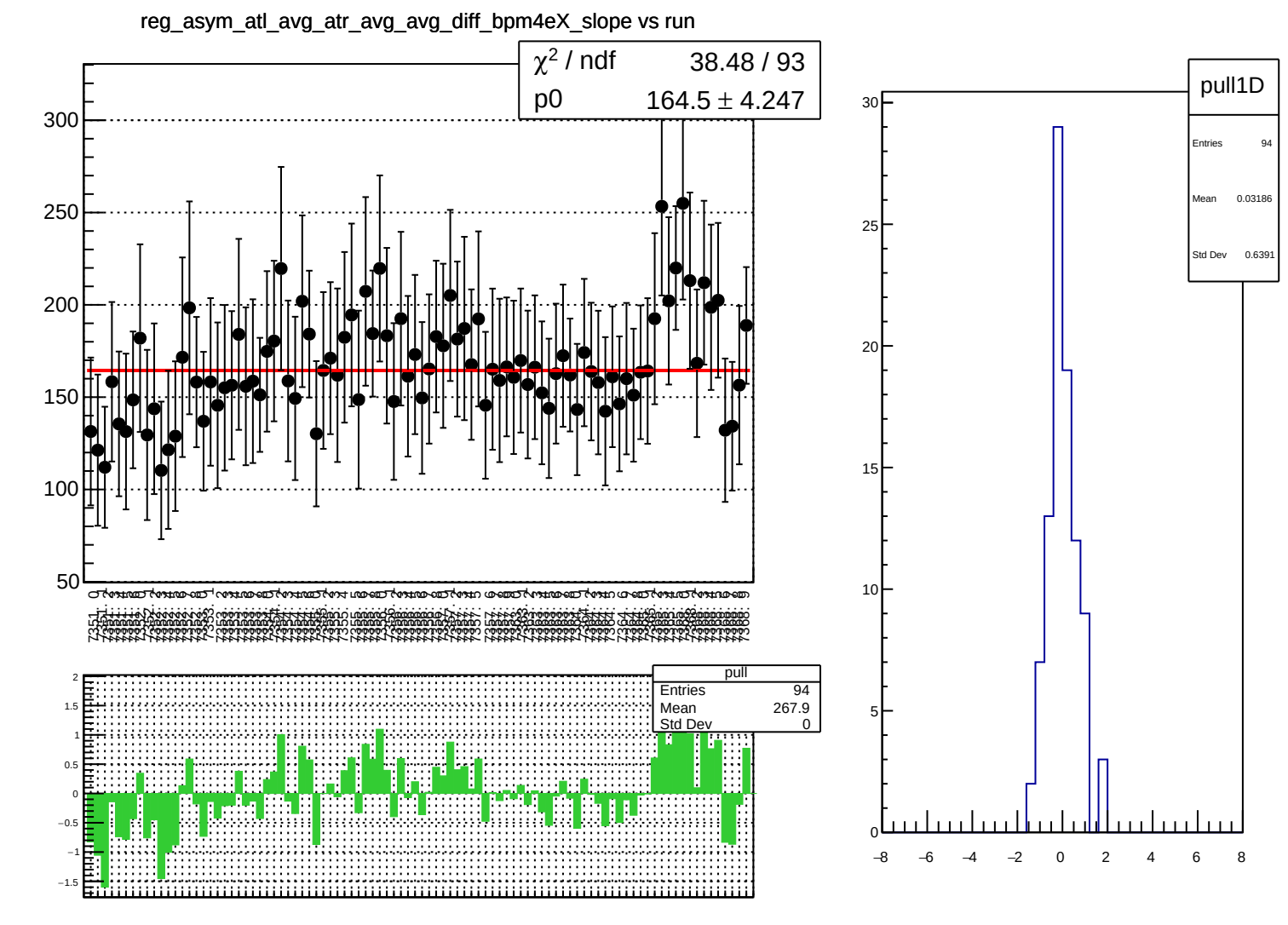

pull1D
Entries 94
Mean 0.06202
Std Dev 1.126

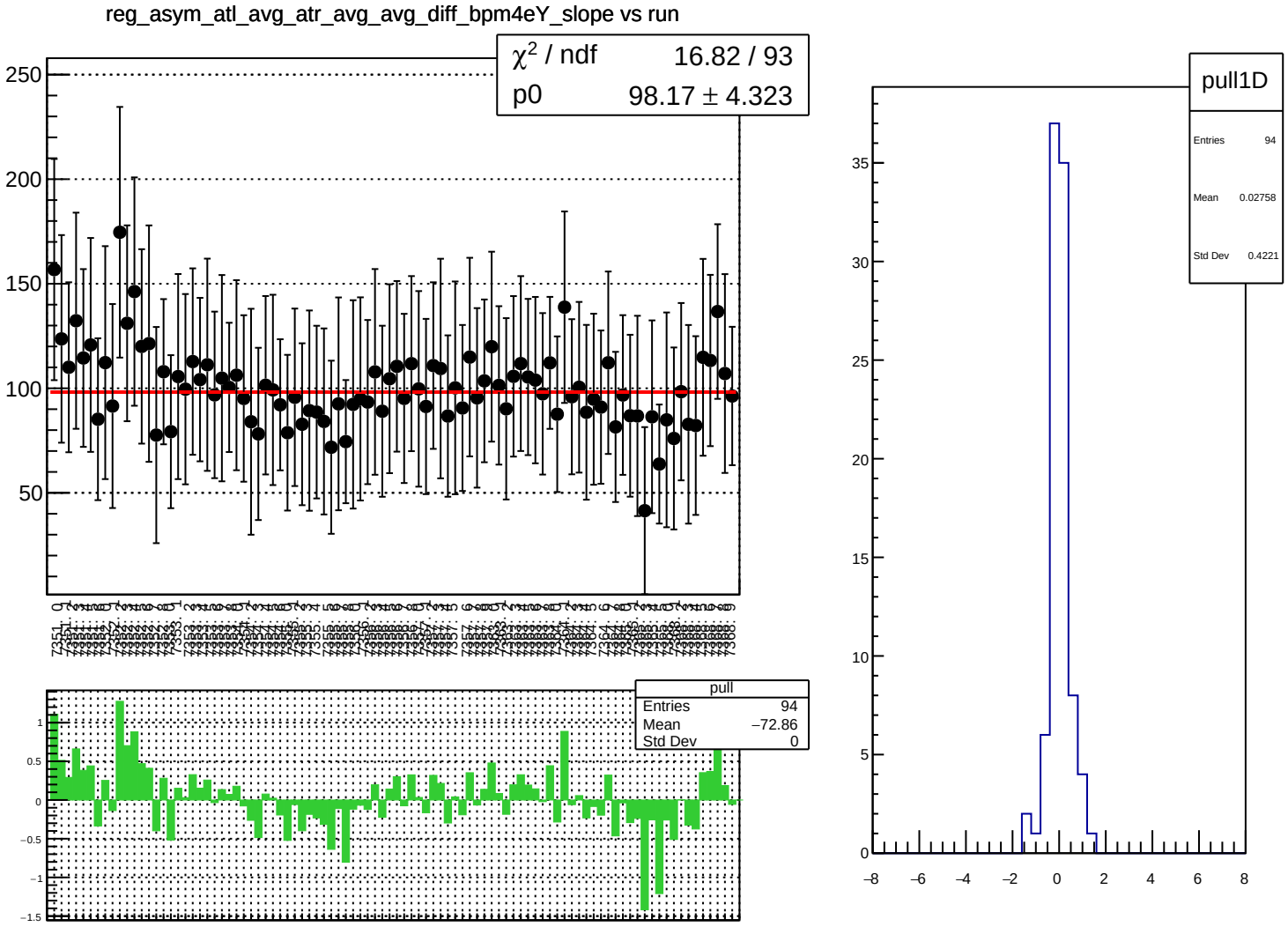

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 91.99 / 93
p0 13.93 ± 0.9451
pull
Entries 94
Mean −993.5
Std Dev 0
pull1D
Entries 94
Mean 0.004828
Std Dev 0.9893

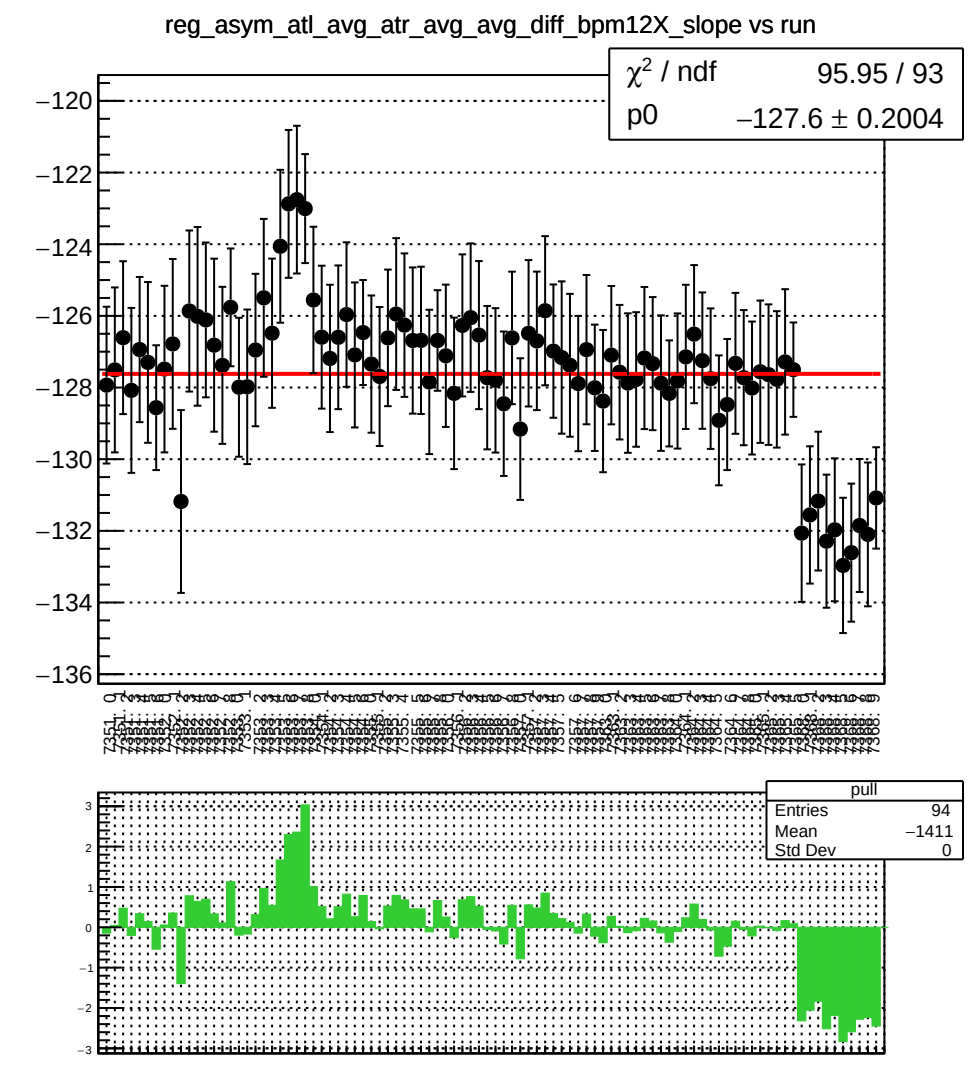

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 537.9 / 93
p0 −2.189 ± 0.0436
pull
Entries 94
Mean 472.4
Std Dev 0
pull1D
Entries 94
Mean 0.363
Std Dev 1.461

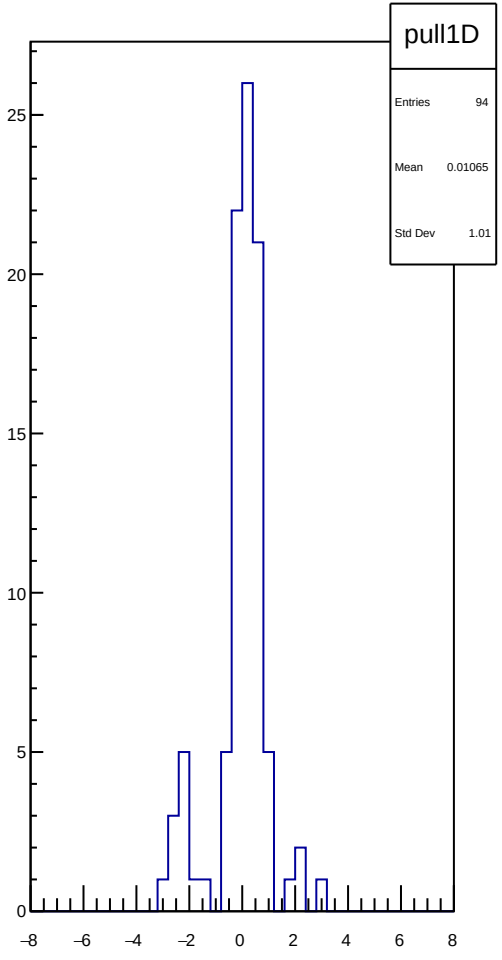

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 35.95 / 93
p0 −160.6 ± 4.275
pull
Entries 94
Mean 250.6
Std Dev 0
pull1D
Entries 94
Mean −0.02981
Std Dev 0.6177

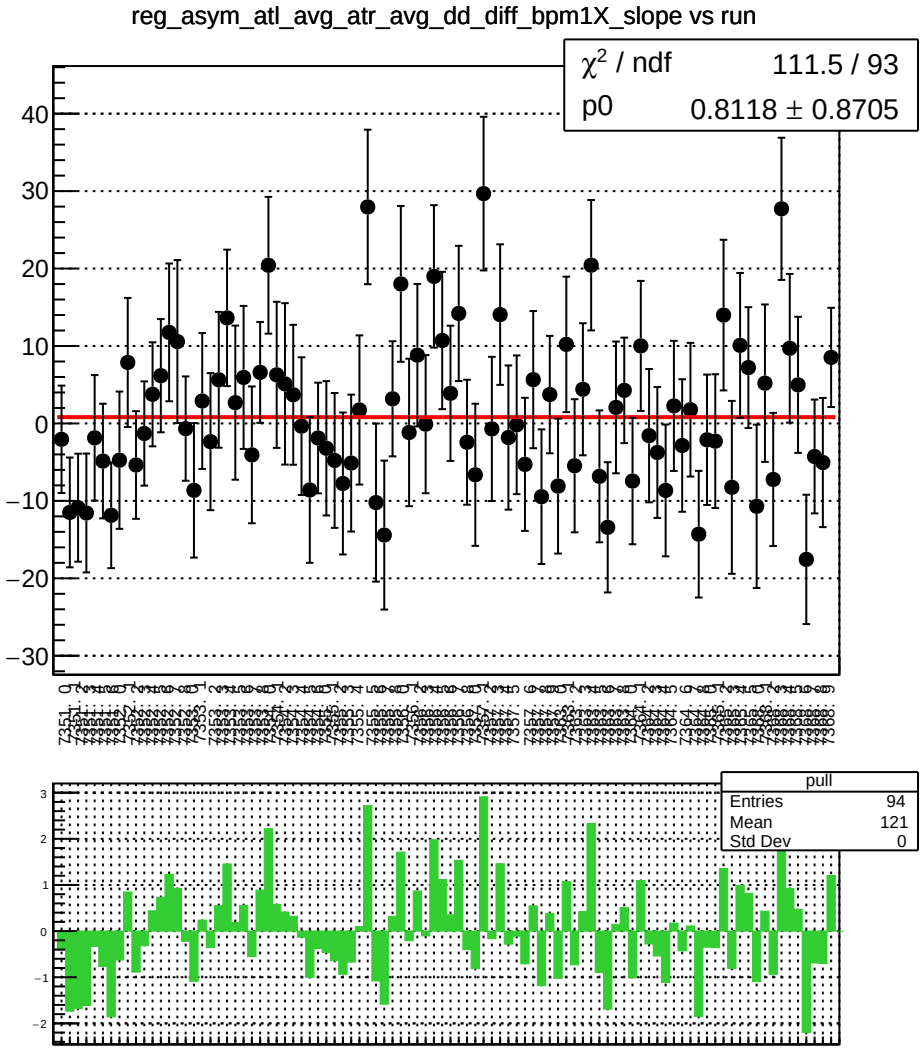

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 16.12 / 93
p0 −36.31 ± 4.083
50
0
−50
−100
−150
pull
Entries 94
Mean −8.084
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 94
Mean −0.03278
Std Dev 0.4128
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

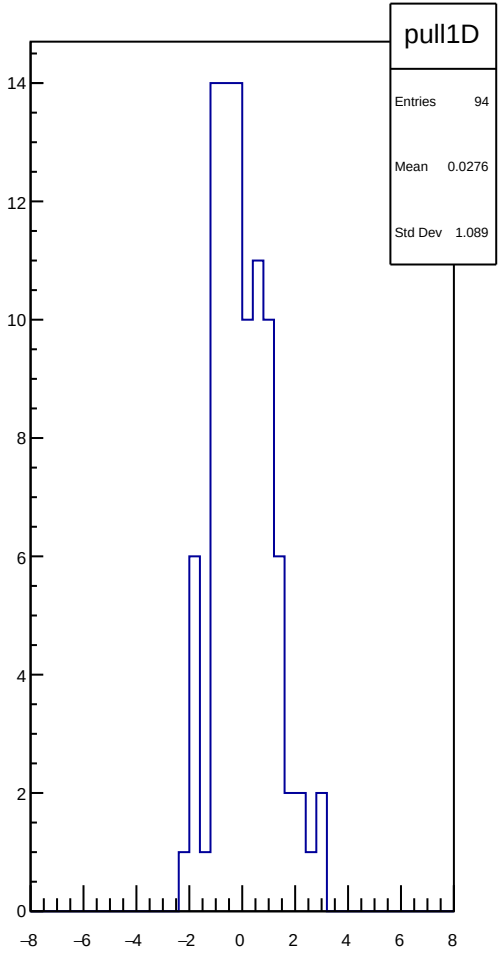

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 38.48 / 93
p0 164.5 ± 4.247
300
250
200
150
100
50
pull
Entries 94
Mean 267.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 94
Mean 0.03186
Std Dev 0.6391
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

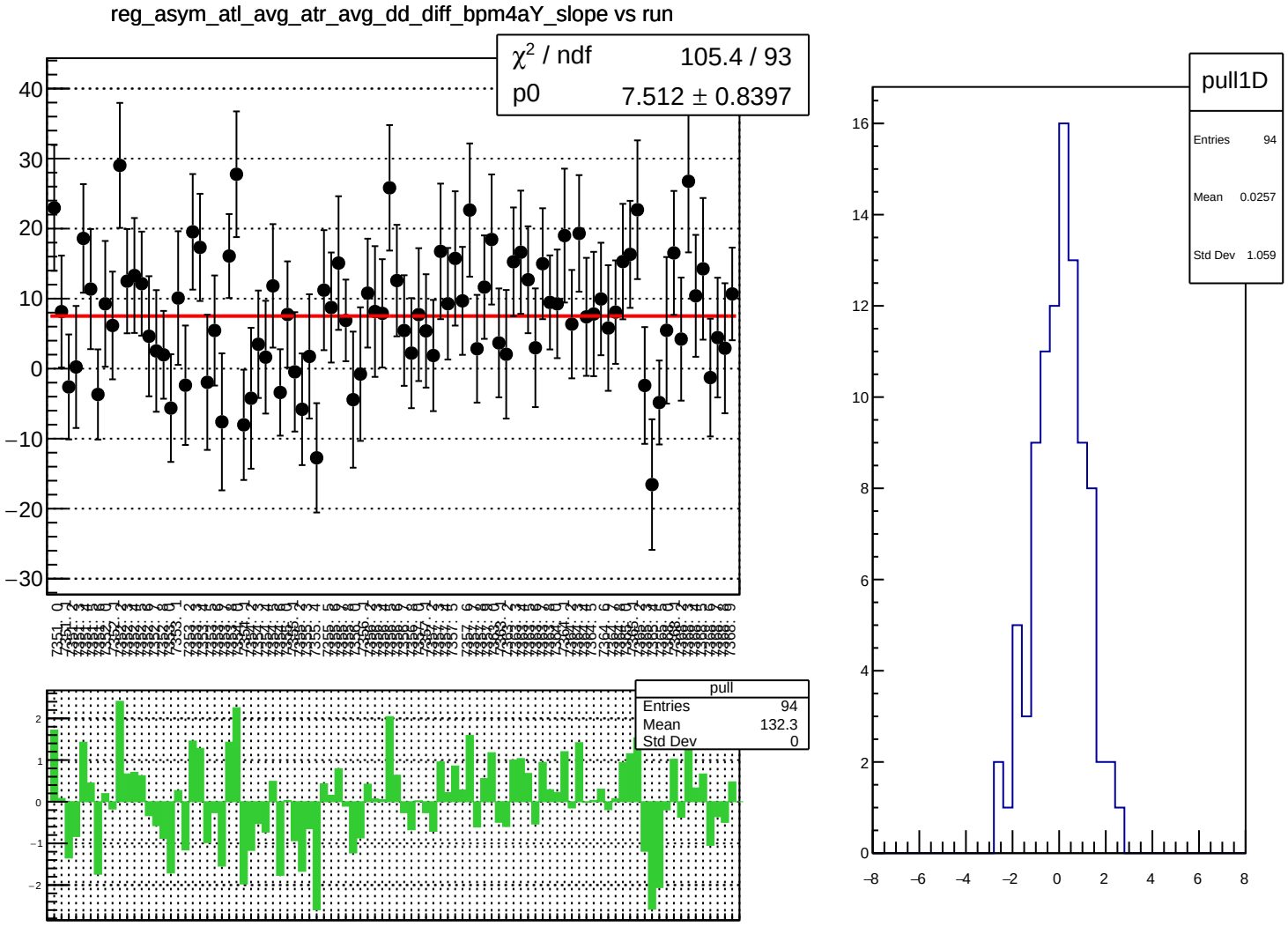

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 16.82 / 93
p0 98.17 ± 4.323
250
200
150
100
50
pull
Entries 94
Mean −72.86
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 94
Mean 0.02758
Std Dev 0.4221
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

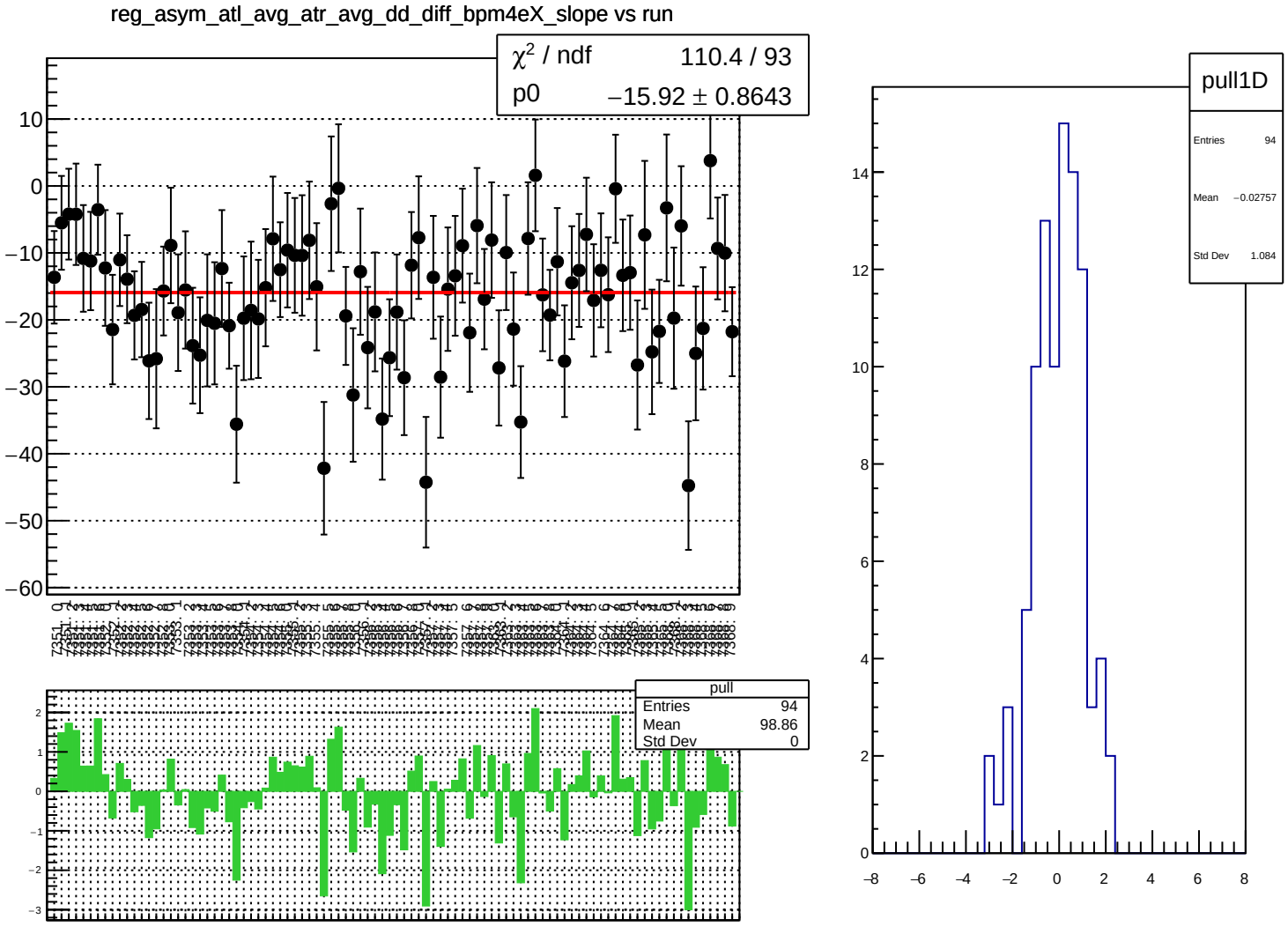

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 95.95 / 93
p0 −127.6 ± 0.2004
pull
Entries 94
Mean −1411
Std Dev 0

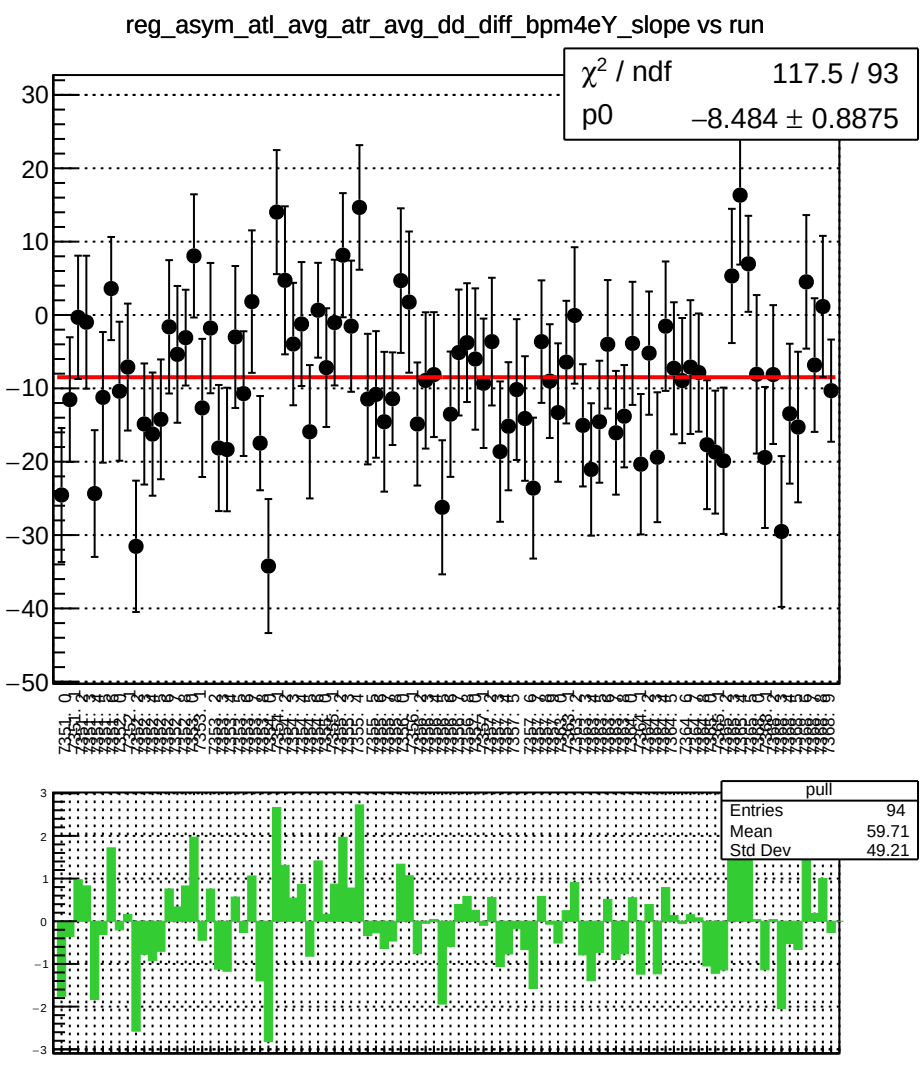

pull1D
Entries 94
Mean 0.01065
Std Dev 1.01

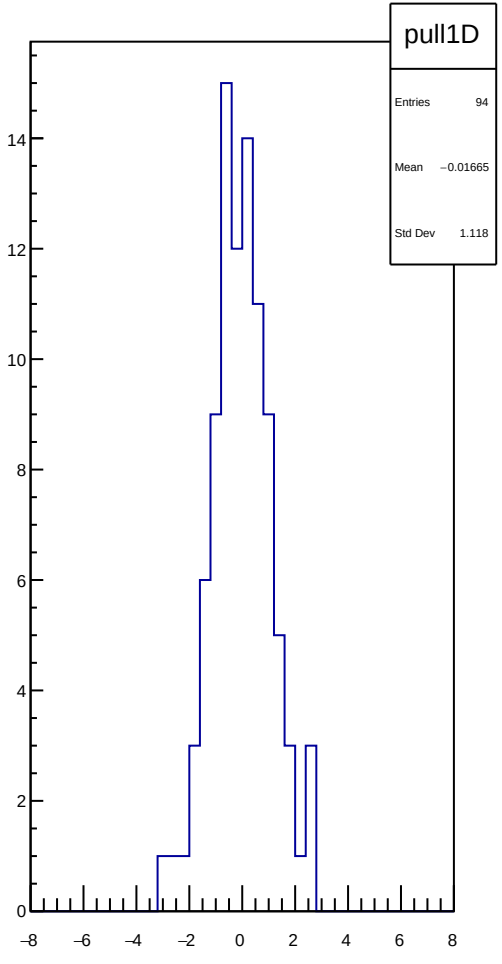

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 111.5 / 93
p0 0.8118 ± 0.8705
pull
Entries 94
Mean 121
Std Dev 0

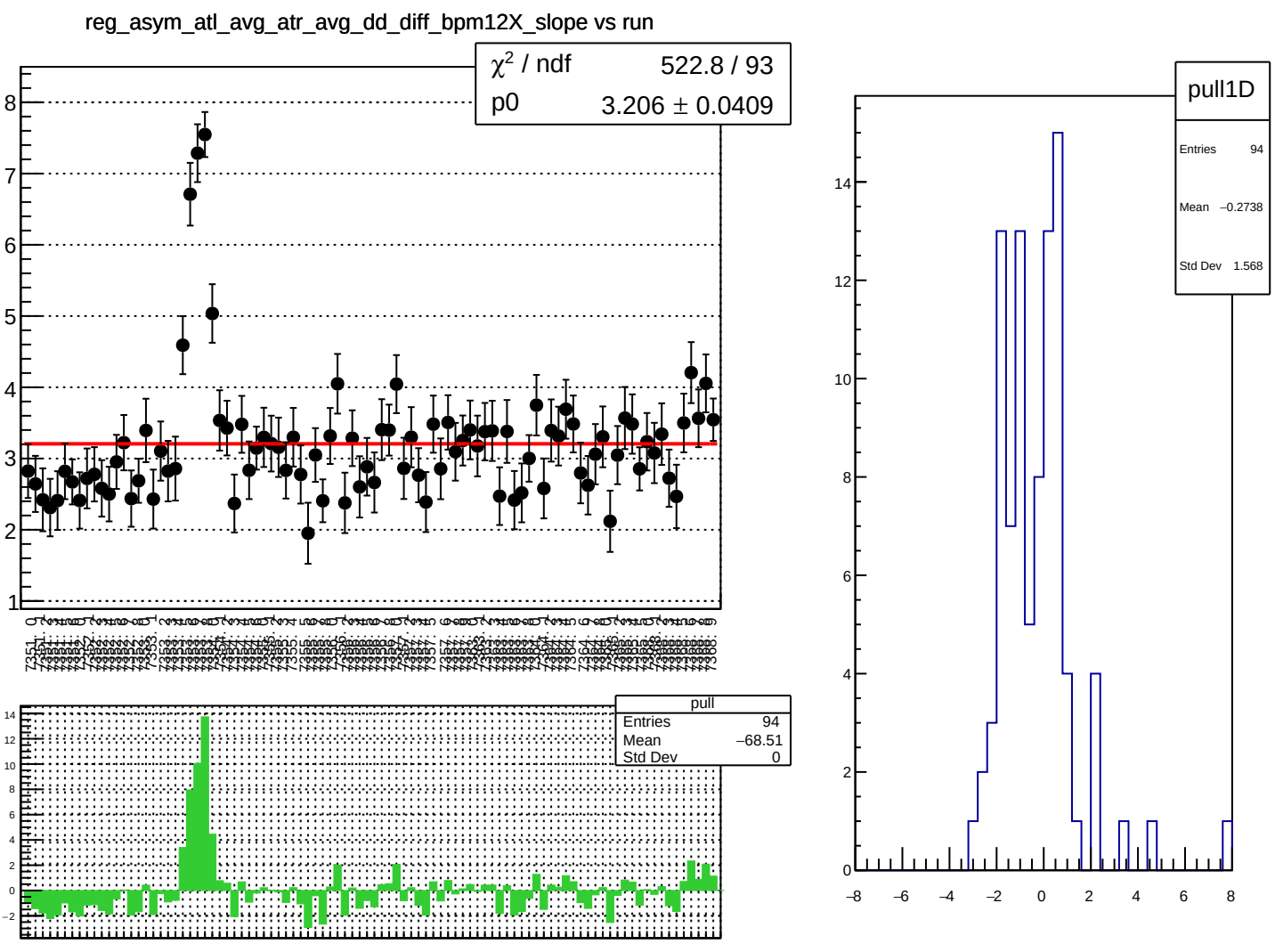

pull1D
Entries 94
Mean 0.0276
Std Dev 1.089

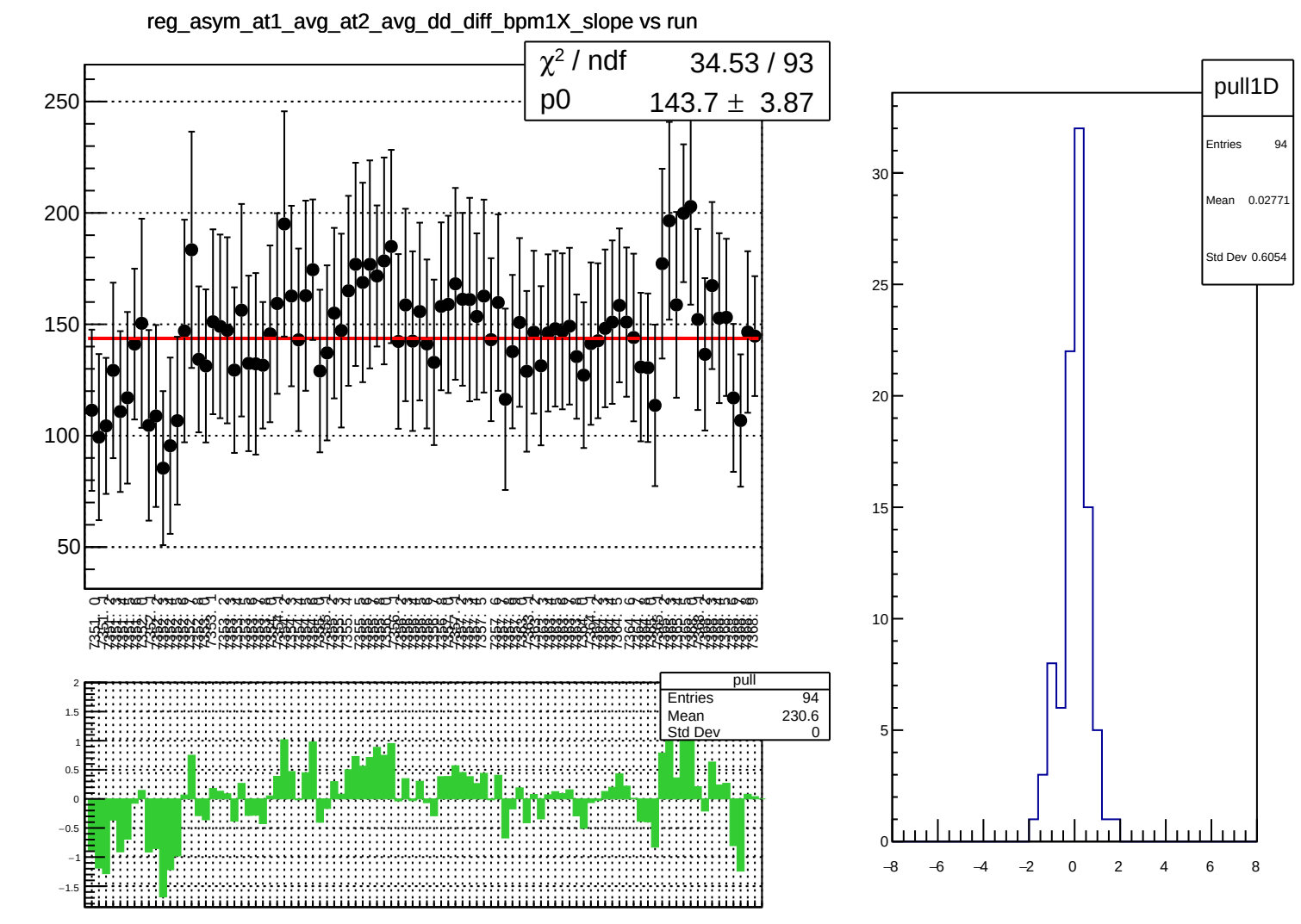

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 105.4 / 93
p0 7.512 ± 0.8397
pull
Entries 94
Mean 132.3
Std Dev 0
pull1D
Entries 94
Mean 0.0257
Std Dev 1.059

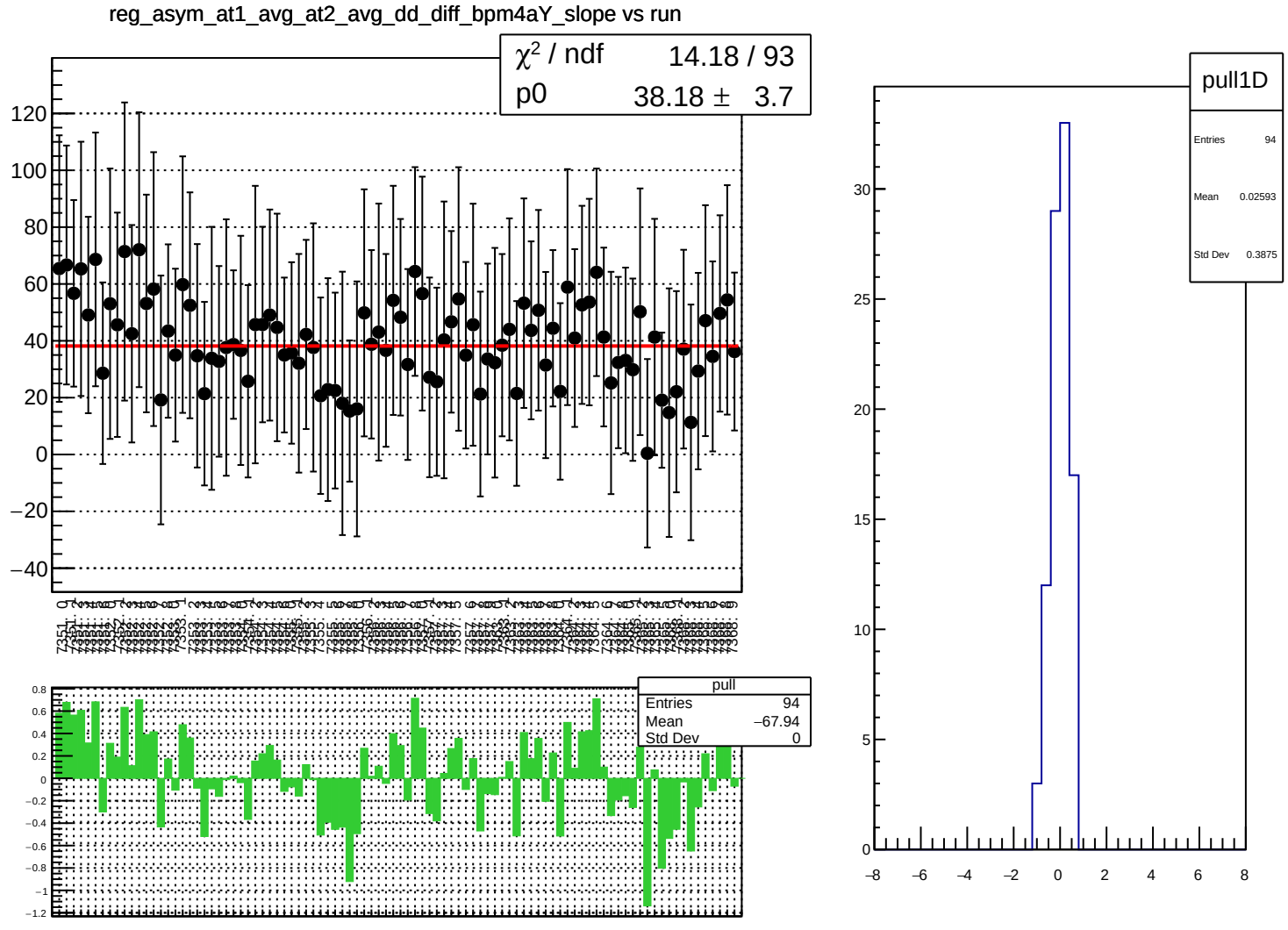

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 110.4 / 93
p0 −15.92 ± 0.8643
pull
Entries 94
Mean 98.86
Std Dev 0
pull1D
Entries 94
Mean −0.02757
Std Dev 1.084

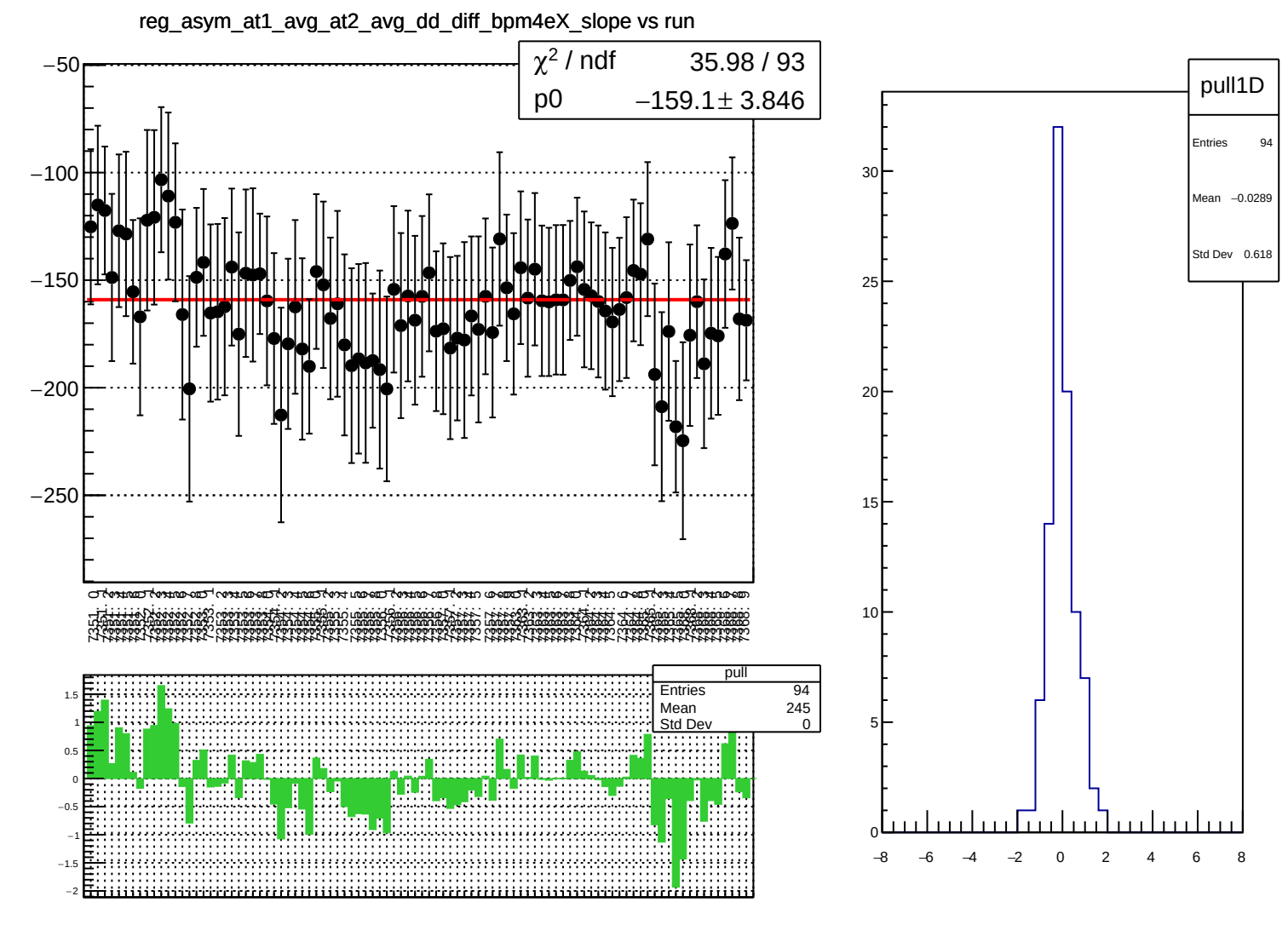

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 117.5 / 93
p0 −8.484 ± 0.8875
pull
Entries 94
Mean 59.71
Std Dev 49.21

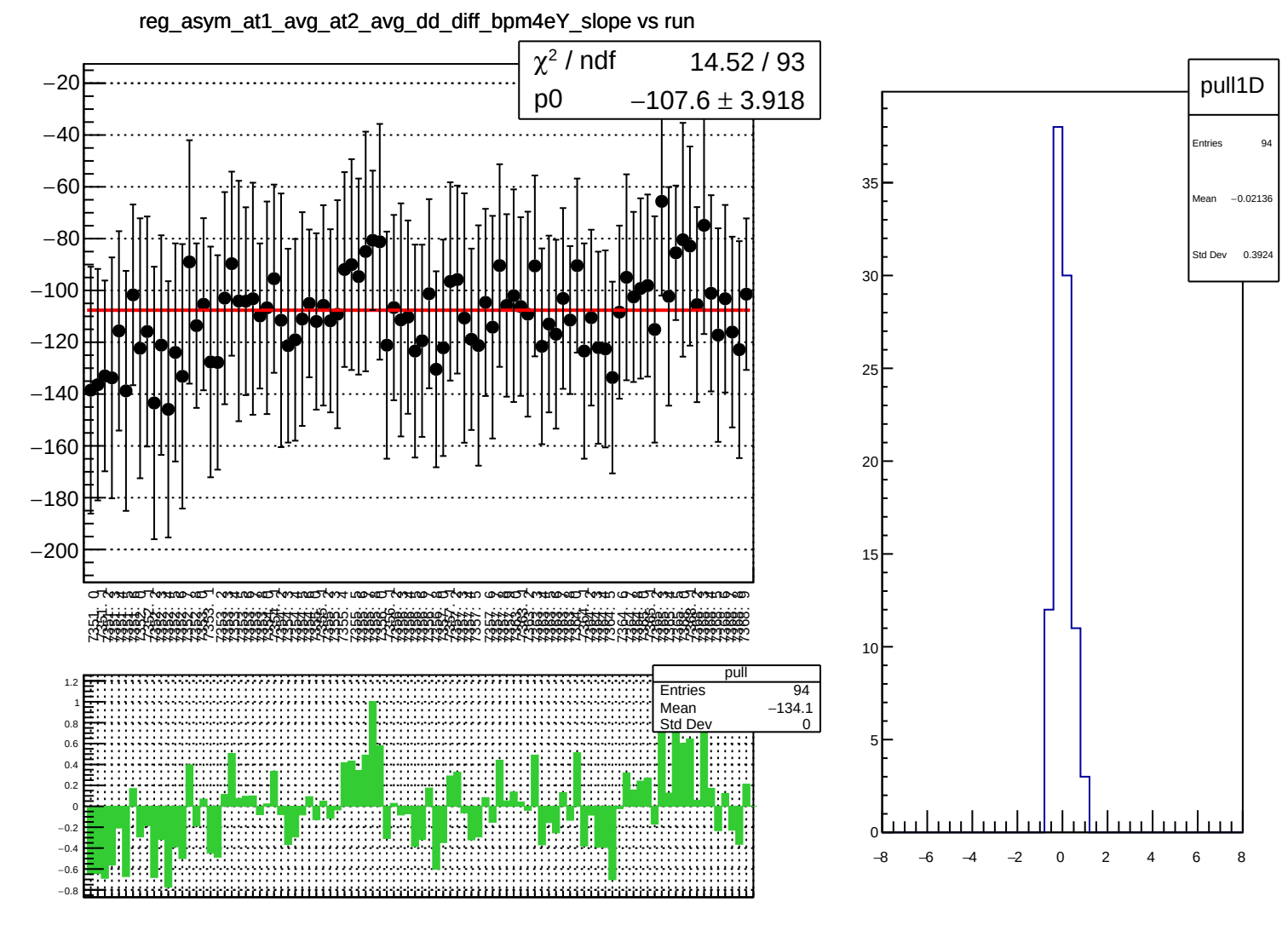

pull1D
Entries 94
Mean −0.01665
Std Dev 1.118

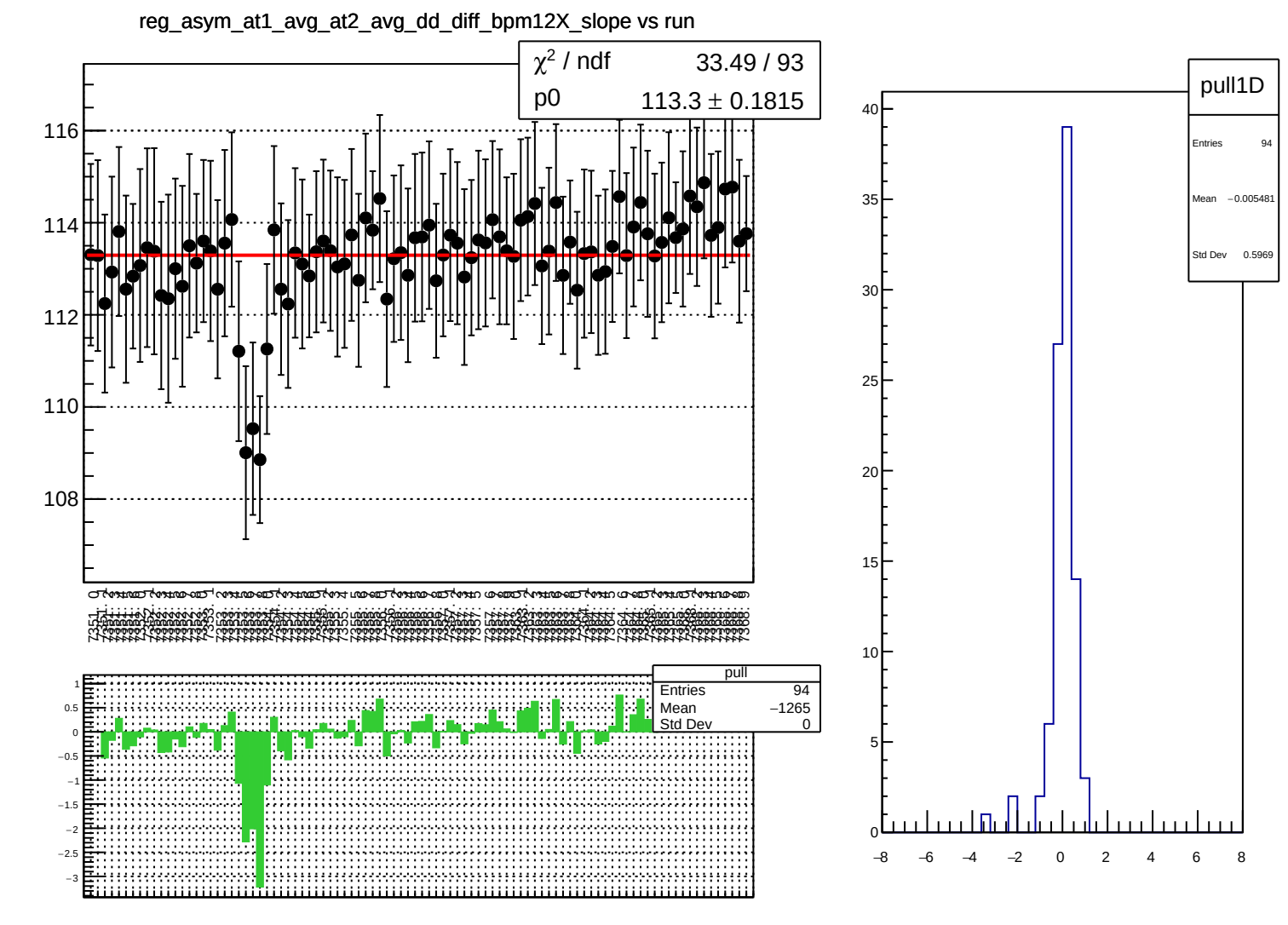

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 522.8 / 93
p0 3.206 ± 0.0409
pull
Entries 94
Mean −68.51
Std Dev 0
pull1D
Entries 94
Mean −0.2738
Std Dev 1.568

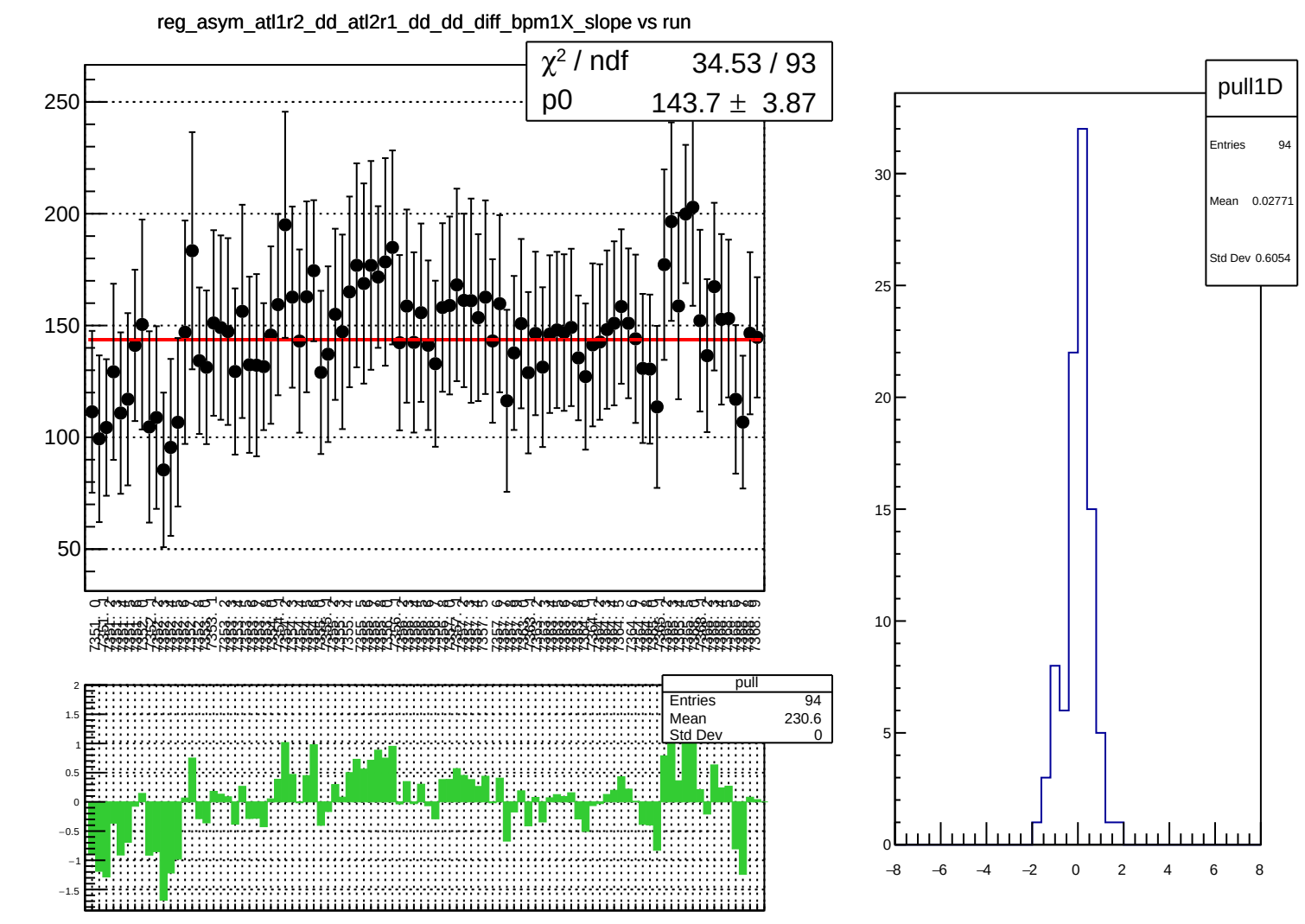

reg_asym_at1_avg_at2_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 34.53 / 93
p0 143.7 ± 3.87
250
200
150
100
50
pull
Entries 94
Mean 230.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 94
Mean 0.02771
Std Dev 0.6054
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

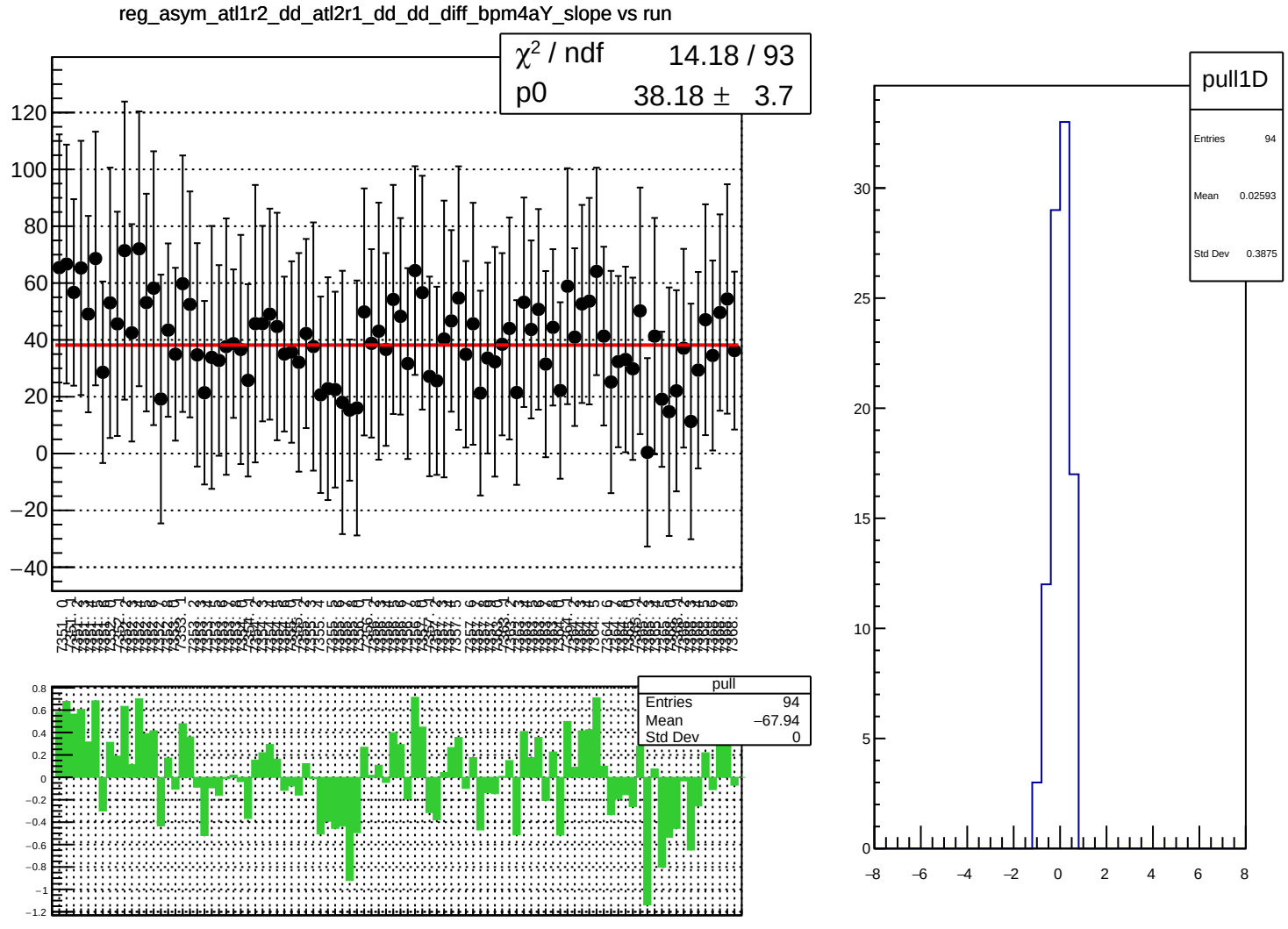

reg_asym_at1_avg_at2_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.18 / 93
p0 38.18 ± 3.7
pull
Entries 94
Mean −67.94
Std Dev 0
pull1D
Entries 94
Mean 0.02593
Std Dev 0.3875

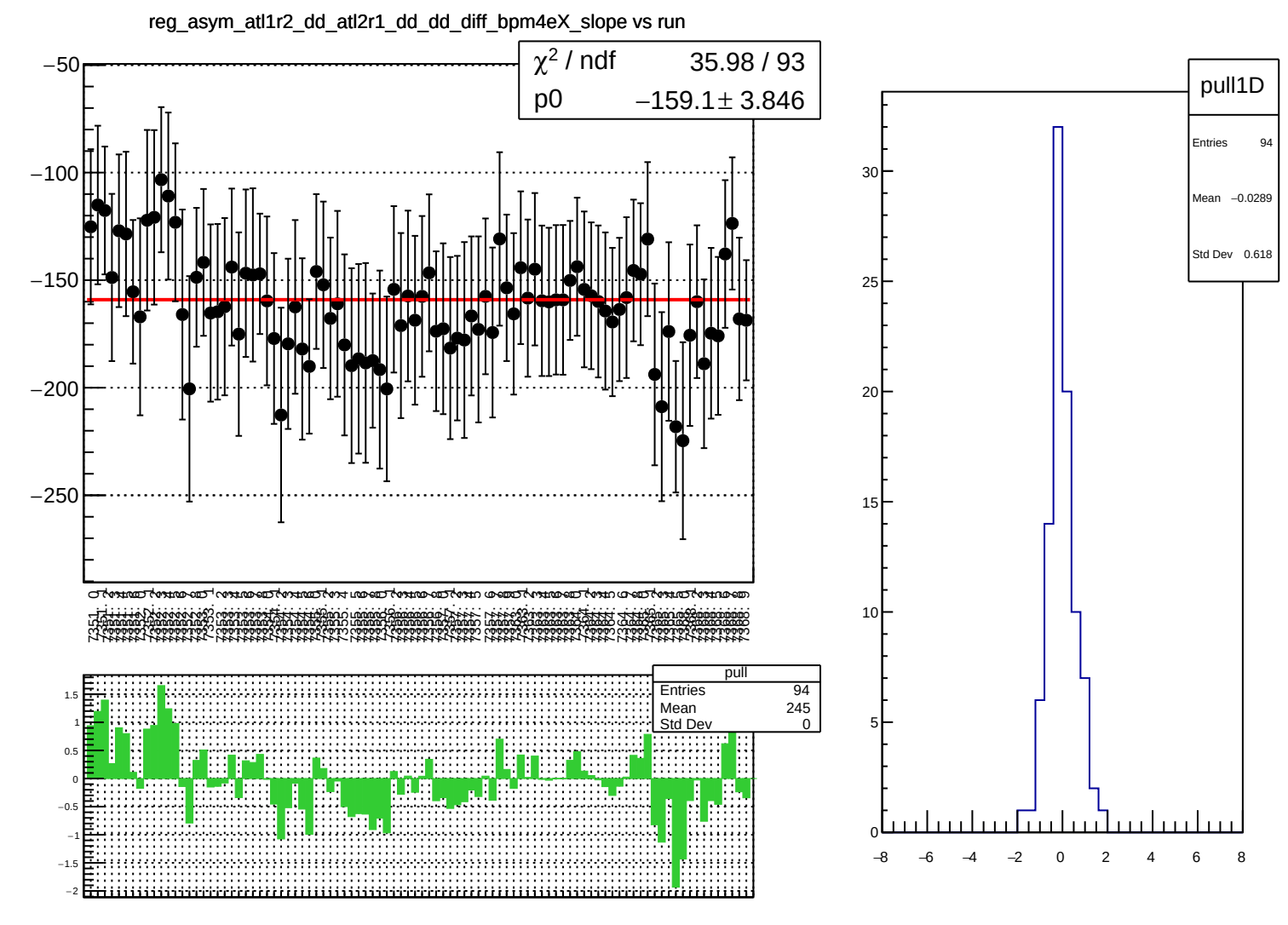

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 35.98 / 93
p0 −159.1± 3.846
pull
Entries 94
Mean 245
Std Dev 0
pull1D
Entries 94
Mean −0.0289
Std Dev 0.618

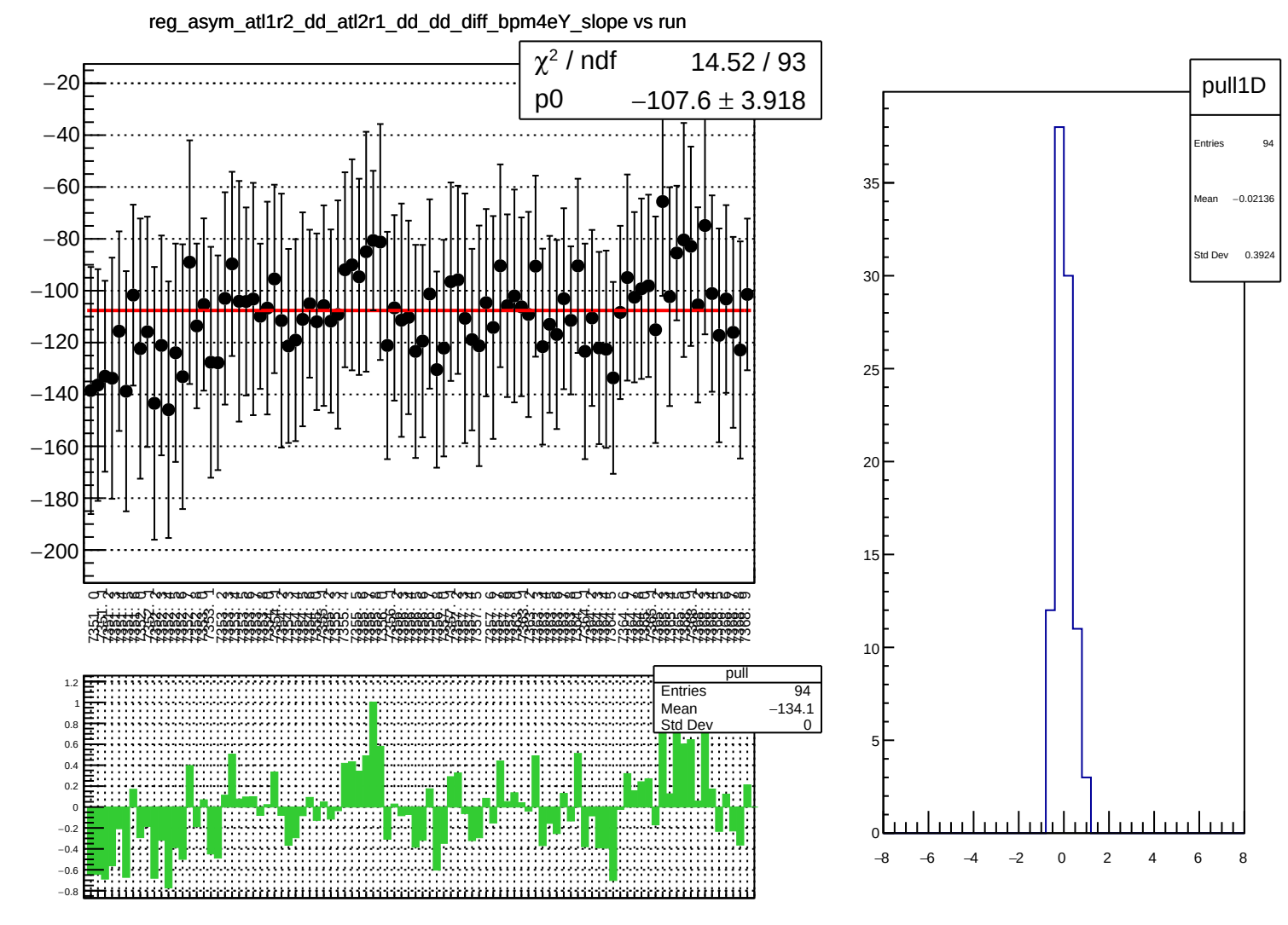

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 14.52 / 93
p0 −107.6 ± 3.918
pull
Entries 94
Mean −134.1
Std Dev 0
pull1D
Entries 94
Mean −0.02136
Std Dev 0.3924

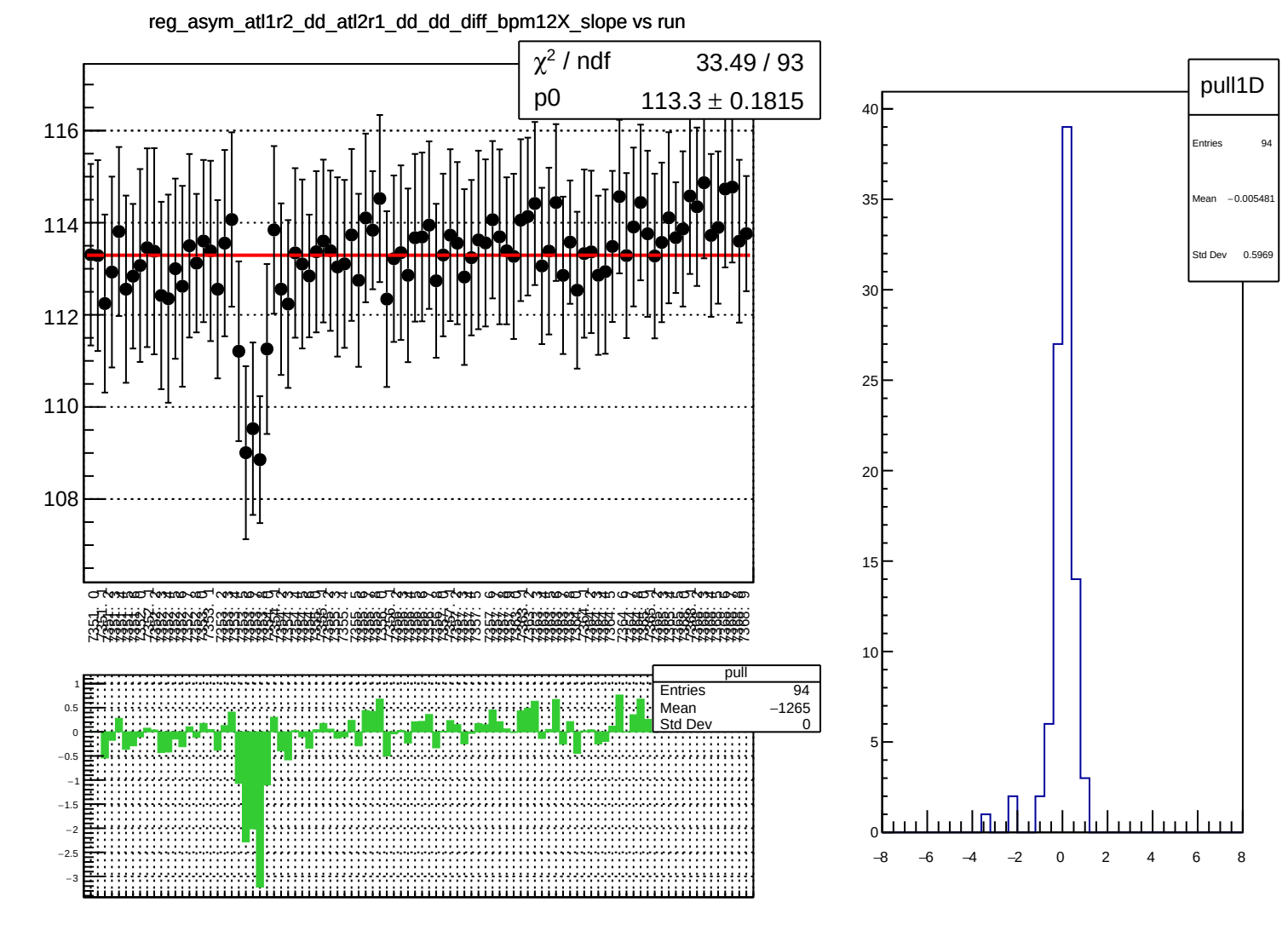

reg_asym_at1_avg_at2_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 33.49 / 93
p0 113.3 ± 0.1815
116
114
112
110
108
pull
Entries 94
Mean −1265
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 94
Mean −0.005481
Std Dev 0.5969
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

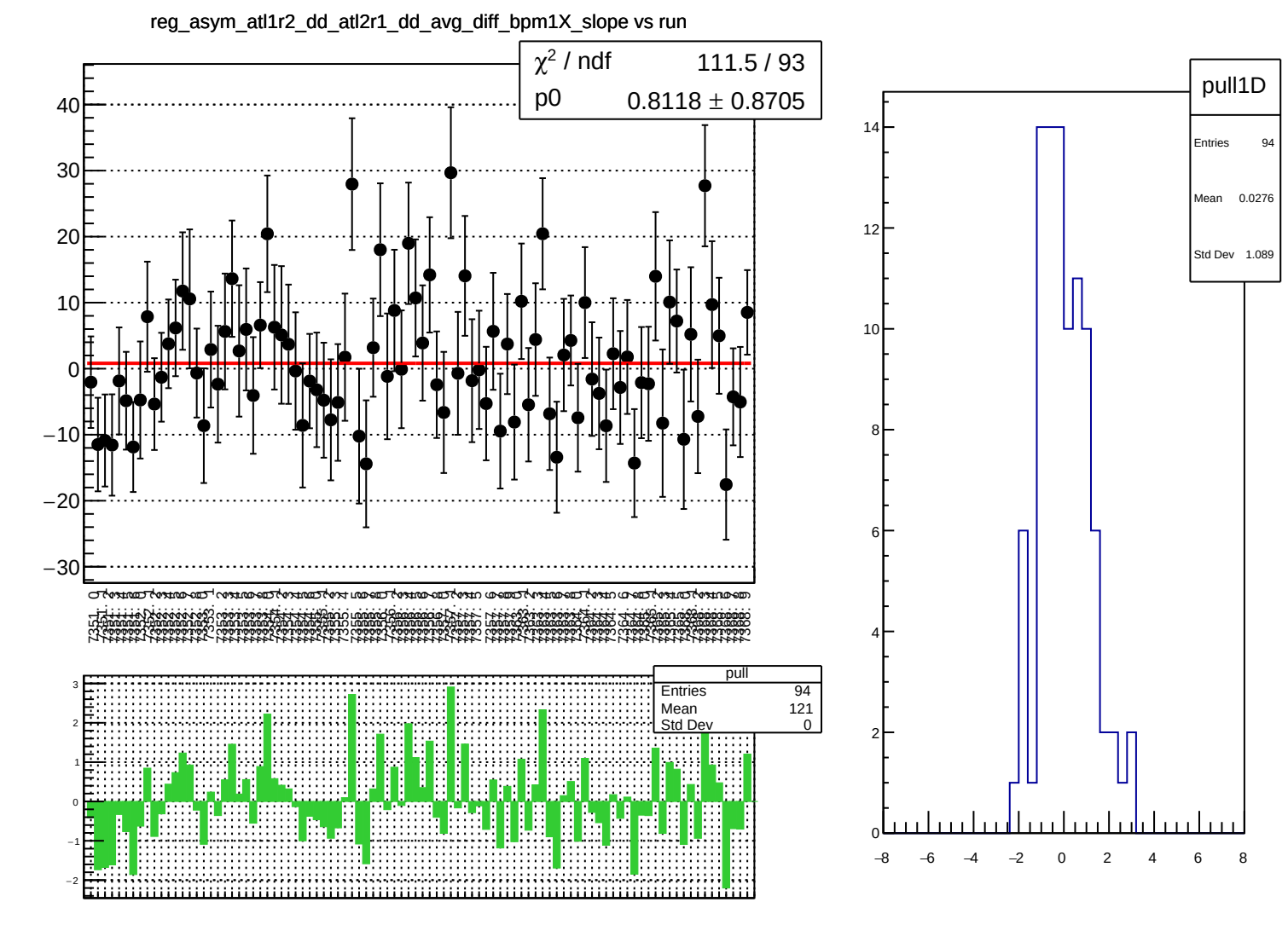

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 34.53 / 93
p0 143.7 ± 3.87
250
200
150
100
50
pull
Entries 94
Mean 230.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 94
Mean 0.02771
Std Dev 0.6054
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

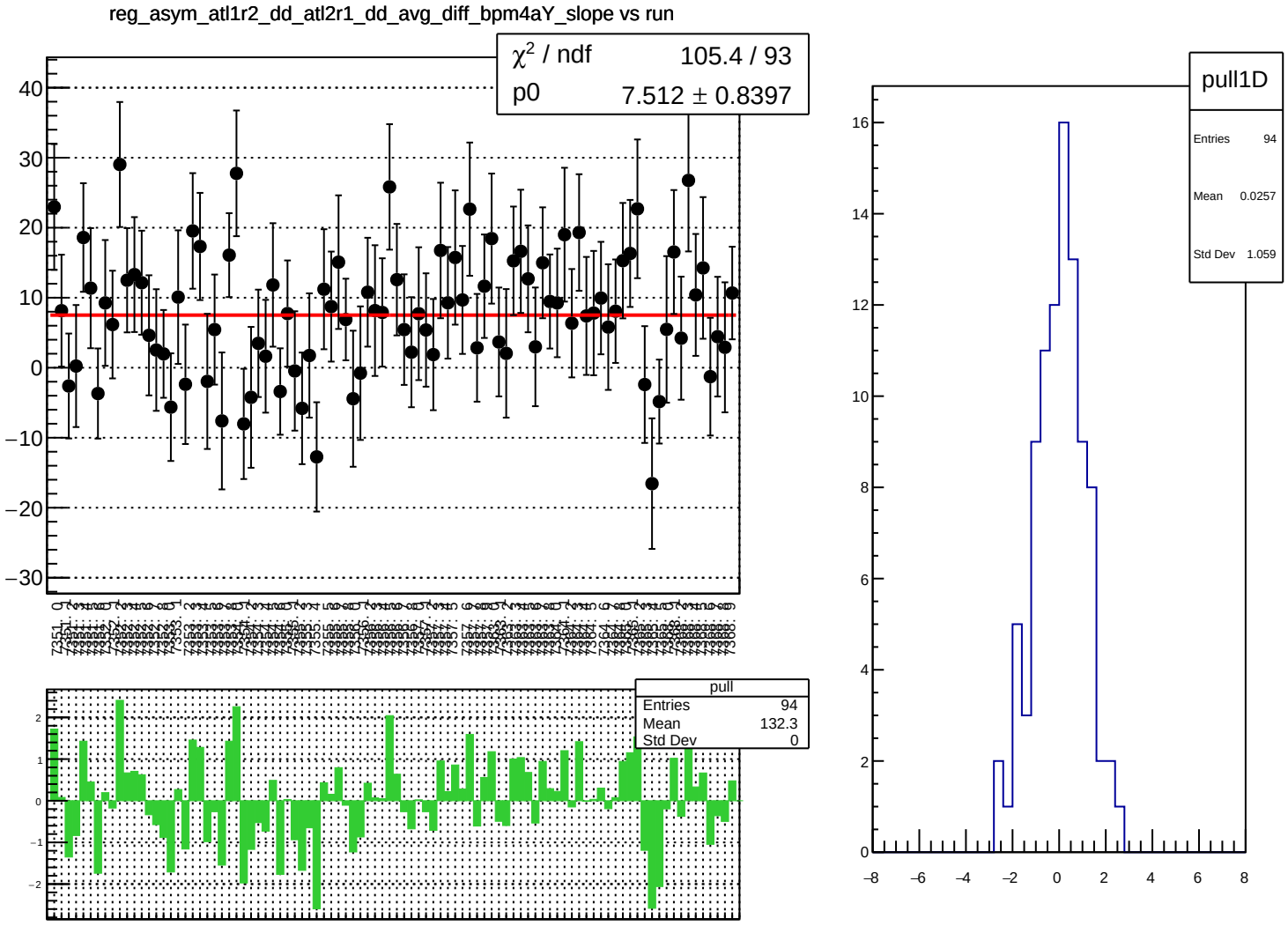

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.18 / 93
p0 38.18 ± 3.7
pull
Entries 94
Mean −67.94
Std Dev 0
pull1D
Entries 94
Mean 0.02593
Std Dev 0.3875

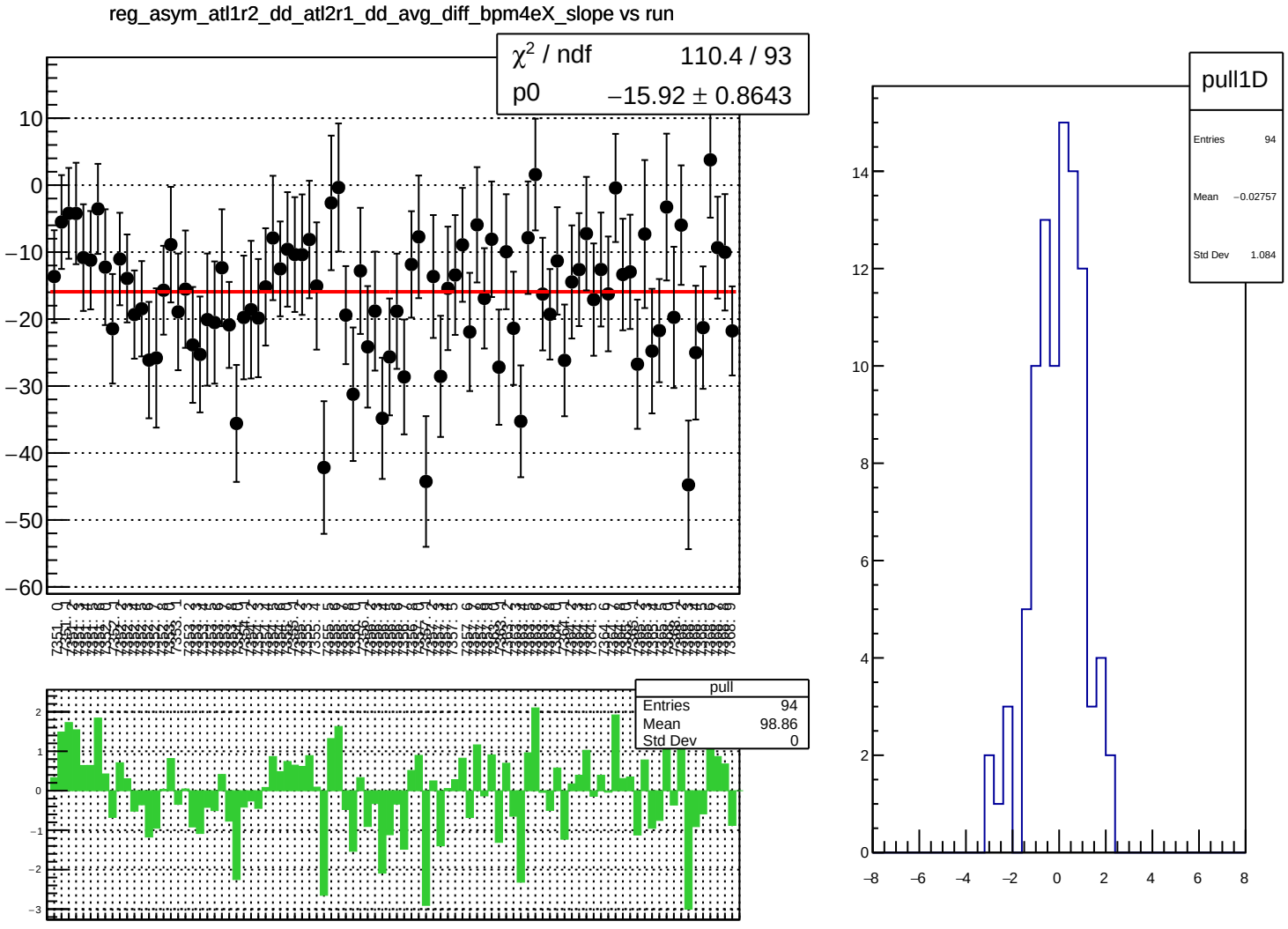

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 35.98 / 93
p0 −159.1 ± 3.846
pull
Entries 94
Mean 245
Std Dev 0
pull1D
Entries 94
Mean −0.0289
Std Dev 0.618

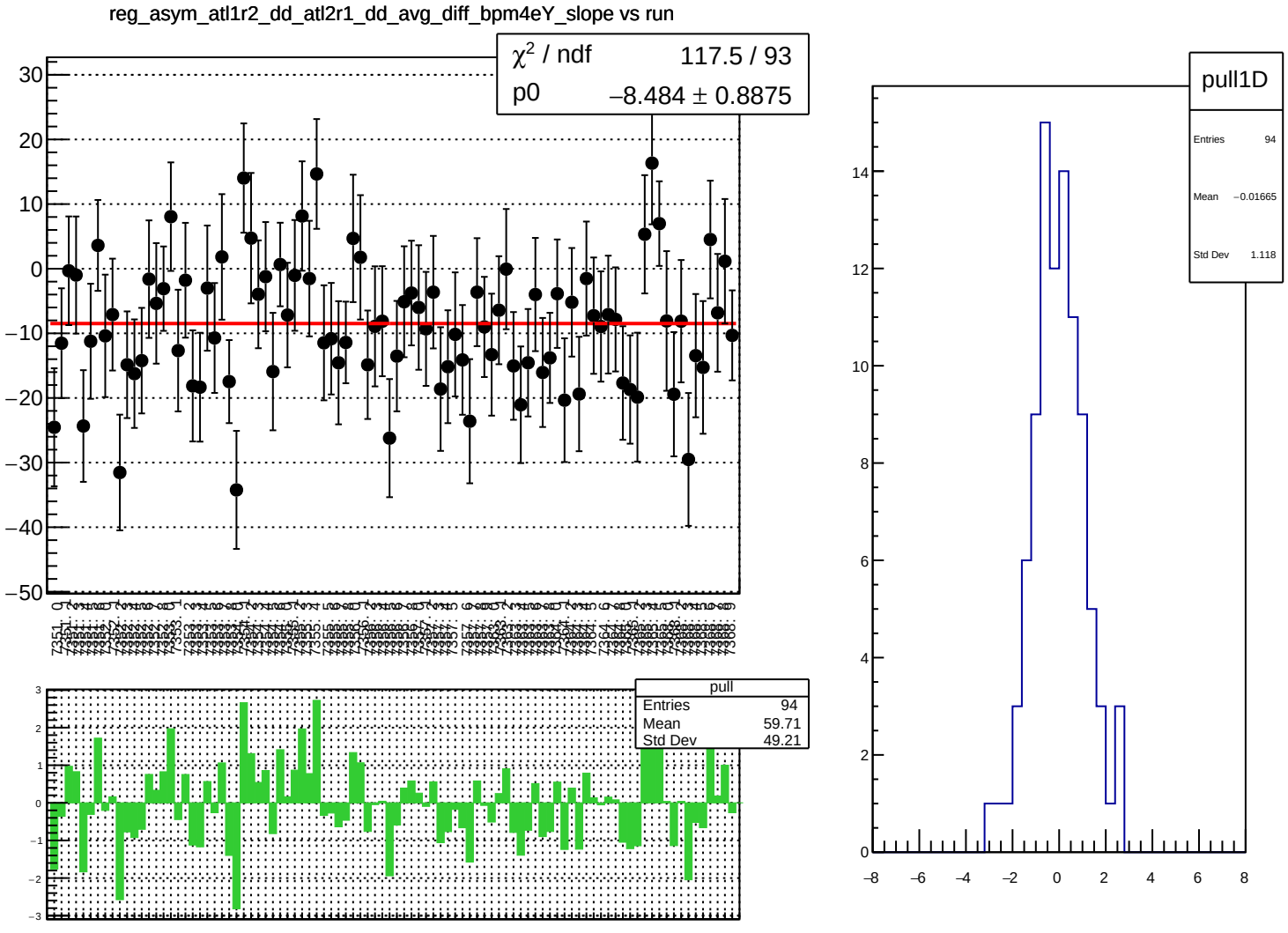

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 14.52 / 93
p0 −107.6 ± 3.918
pull
Entries 94
Mean −134.1
Std Dev 0
pull1D
Entries 94
Mean −0.02136
Std Dev 0.3924

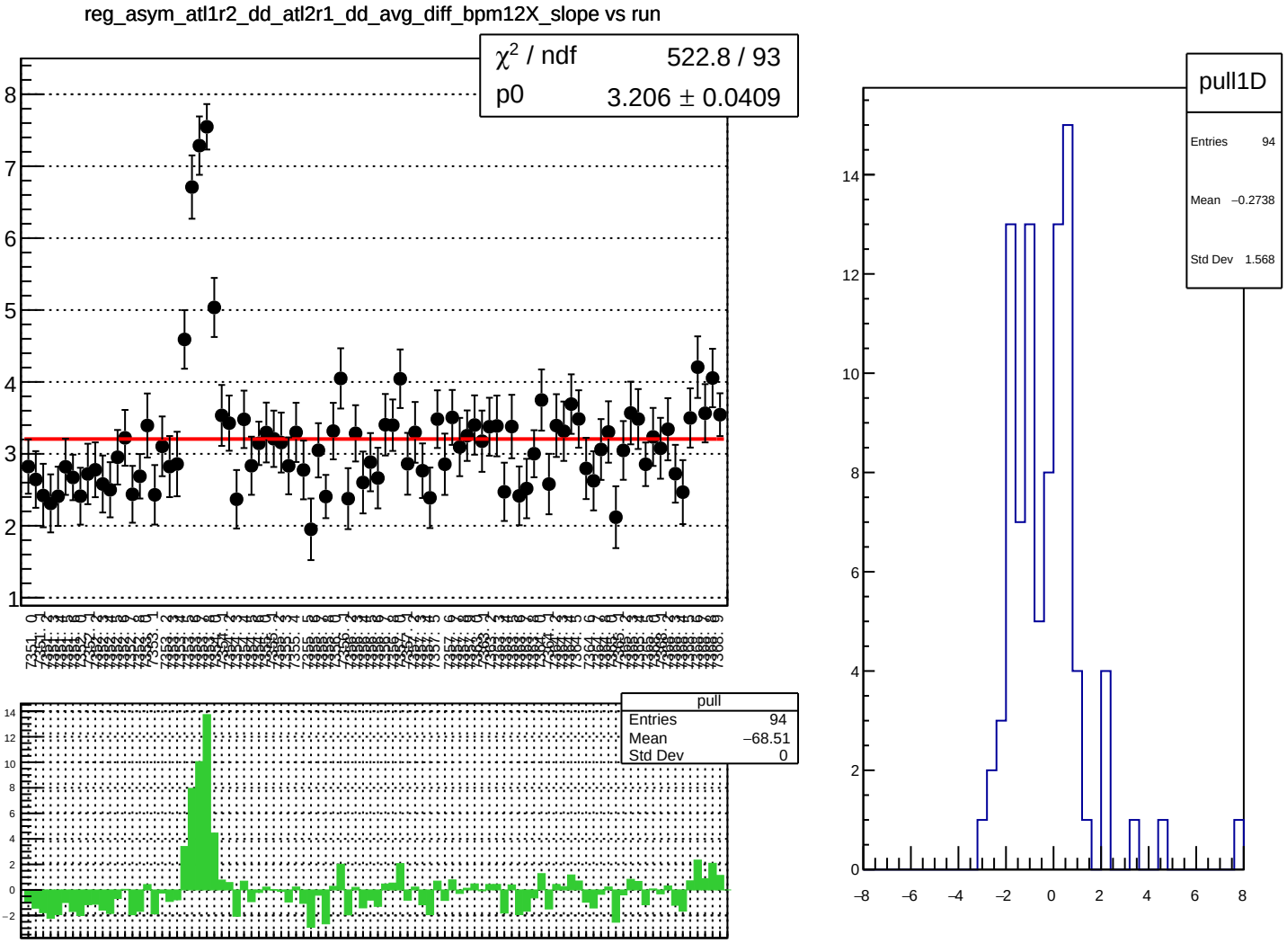

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 33.49 / 93
p0 113.3 ± 0.1815
116
114
112
110
108
pull
Entries 94
Mean −1265
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 94
Mean −0.005481
Std Dev 0.5969
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

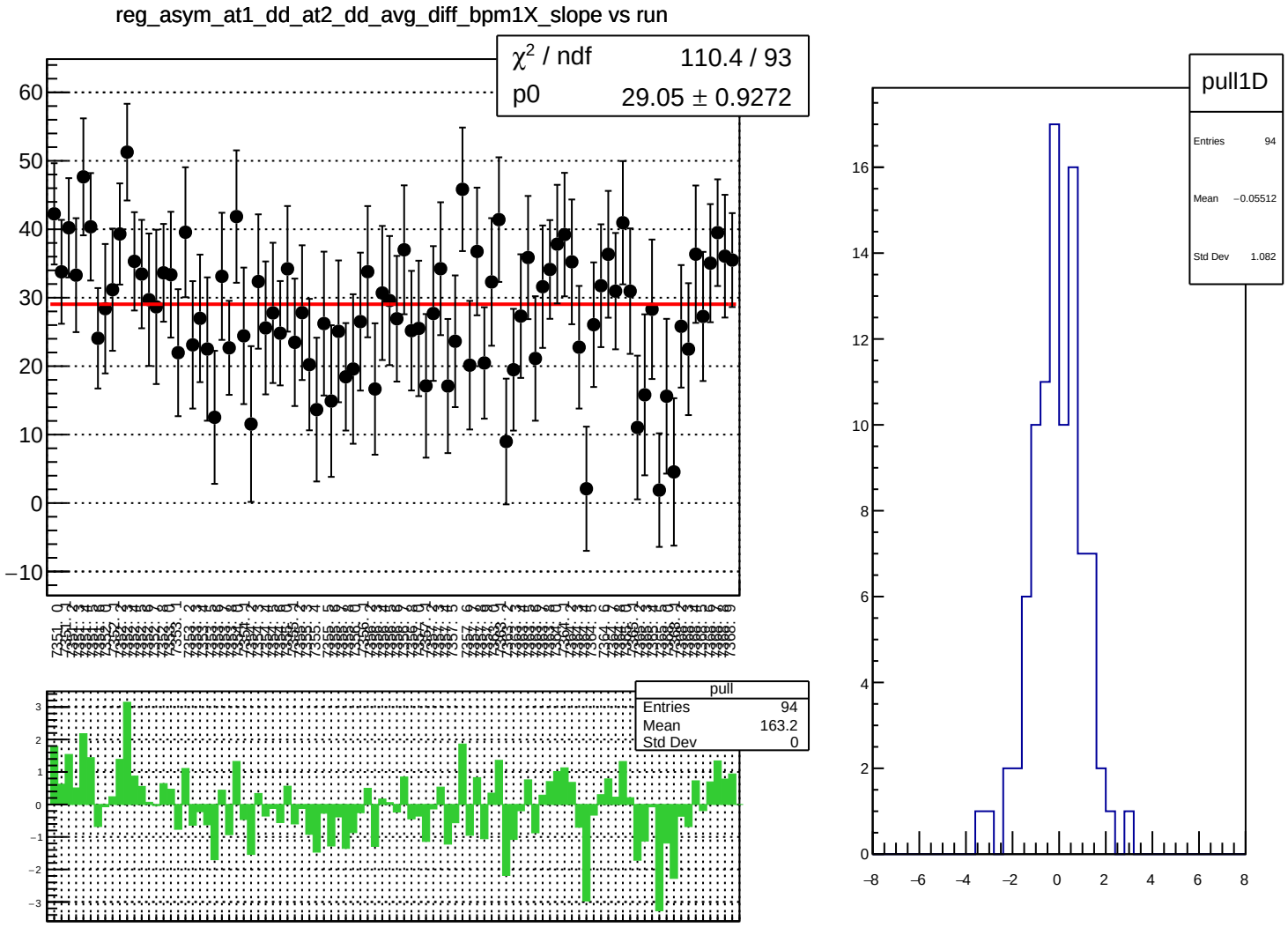

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 111.5 / 93
p0 0.8118 ± 0.8705
pull
Entries 94
Mean 121
Std Dev 0
pull1D
Entries 94
Mean 0.0276
Std Dev 1.089

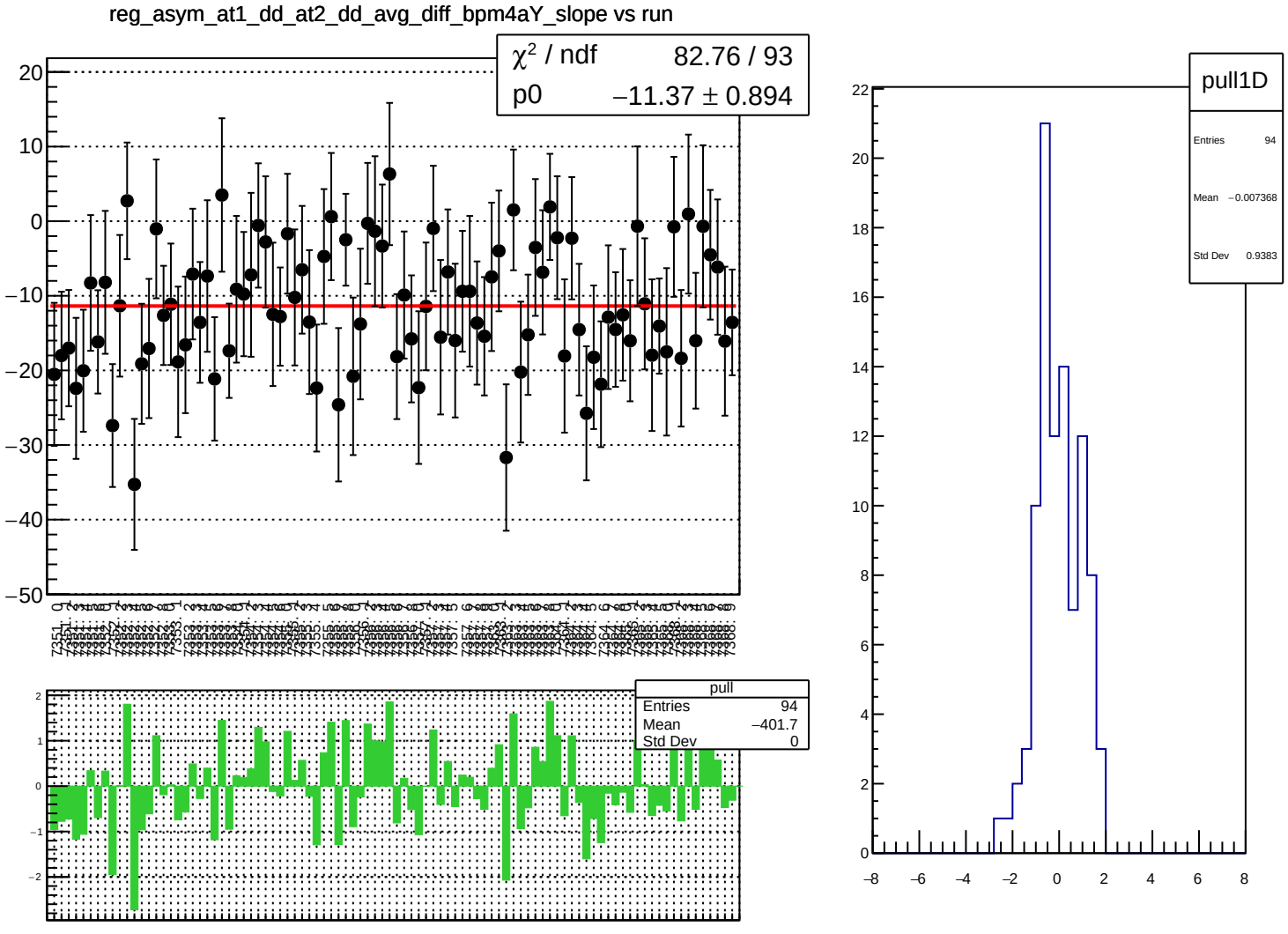

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 105.4 / 93
p0 7.512 ± 0.8397
pull
Entries 94
Mean 132.3
Std Dev 0
pull1D
Entries 94
Mean 0.0257
Std Dev 1.059

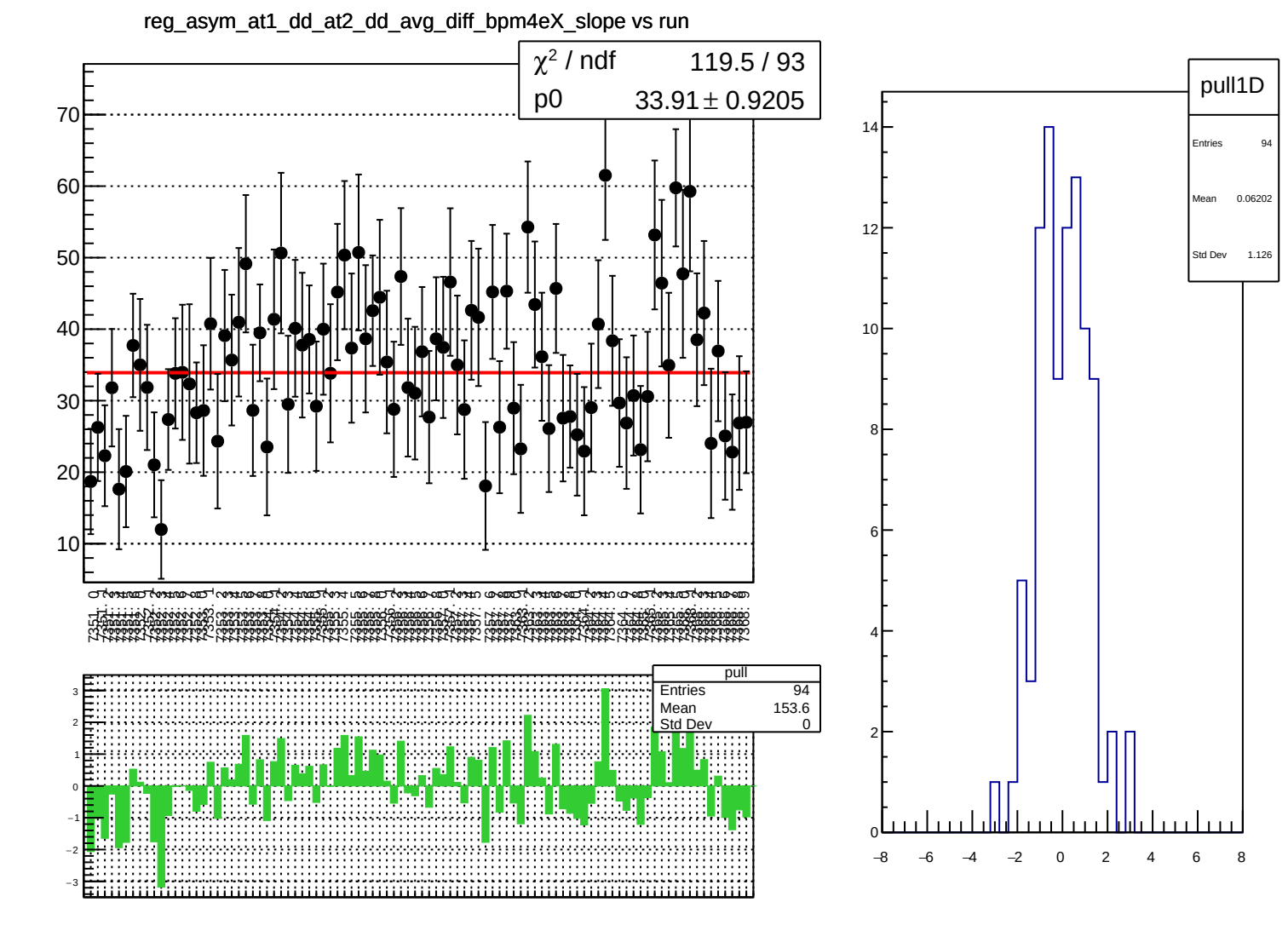

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 110.4 / 93
p0 −15.92 ± 0.8643
pull
Entries 94
Mean 98.86
Std Dev 0
pull1D
Entries 94
Mean −0.02757
Std Dev 1.084

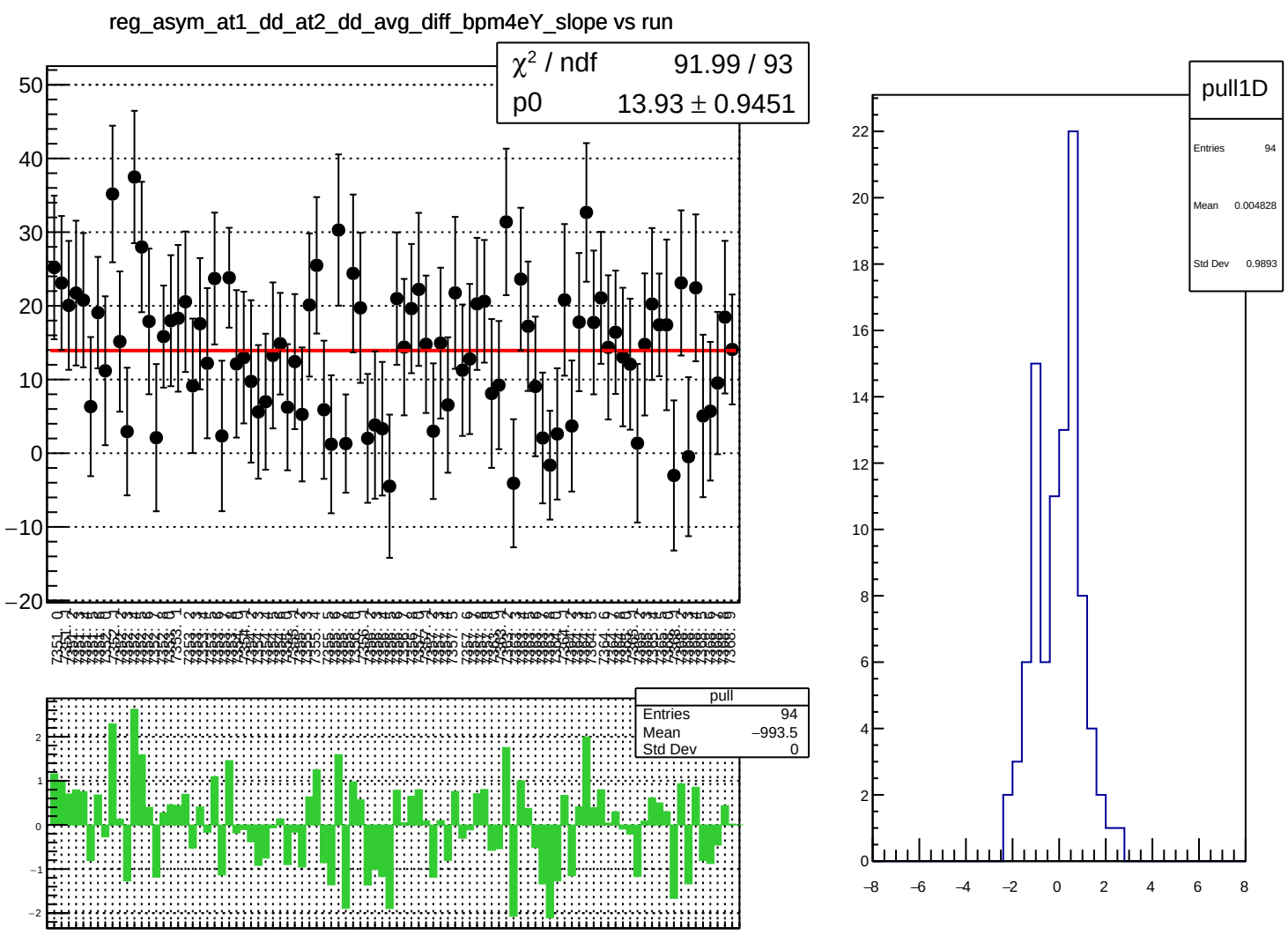

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 117.5 / 93
p0 −8.484 ± 0.8875
pull
Entries 94
Mean 59.71
Std Dev 49.21
pull1D
Entries 94
Mean −0.01665
Std Dev 1.118

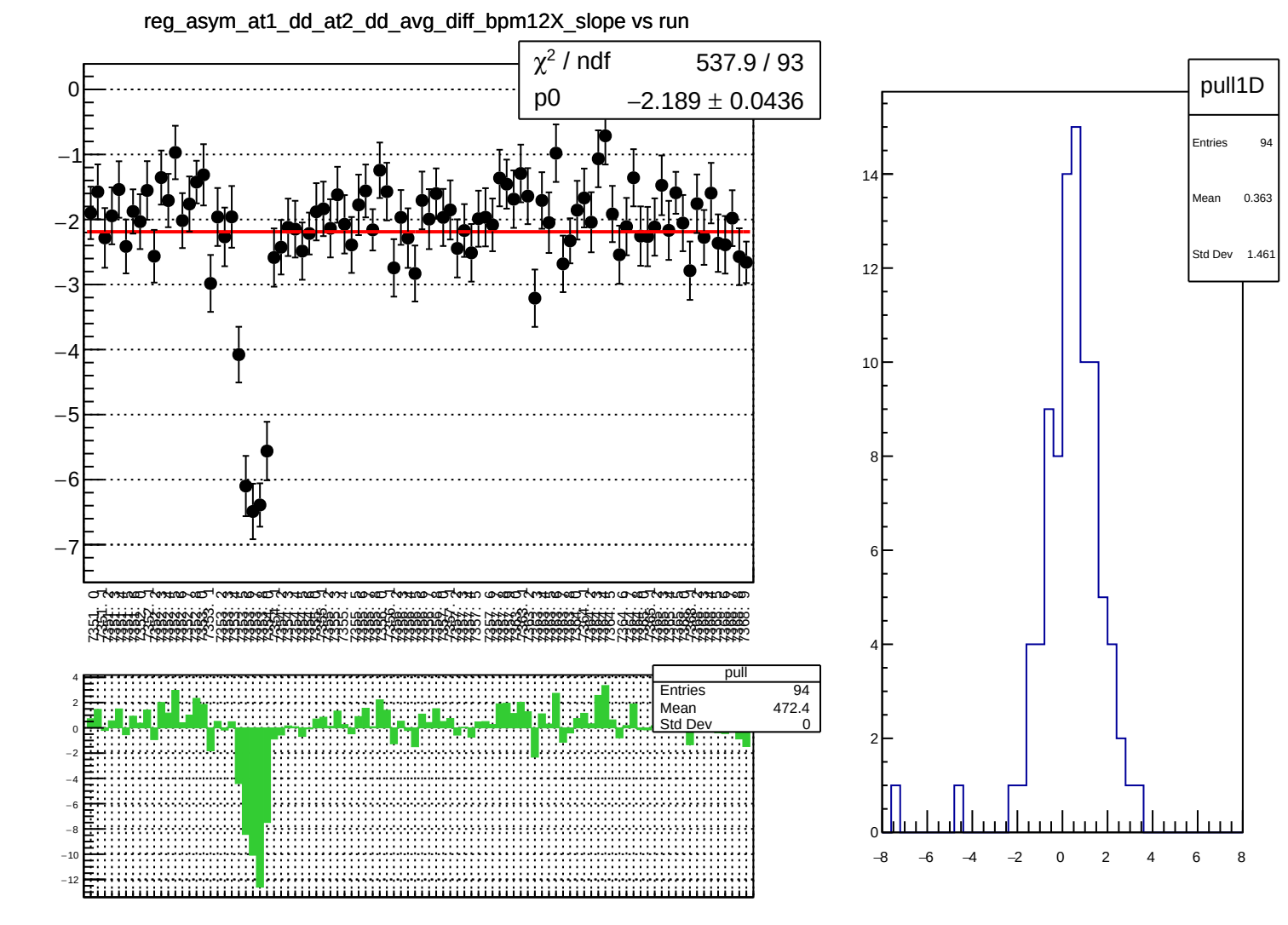

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 522.8 / 93
p0 3.206 ± 0.0409
pull
Entries 94
Mean −68.51
Std Dev 0
pull1D
Entries 94
Mean −0.2738
Std Dev 1.568

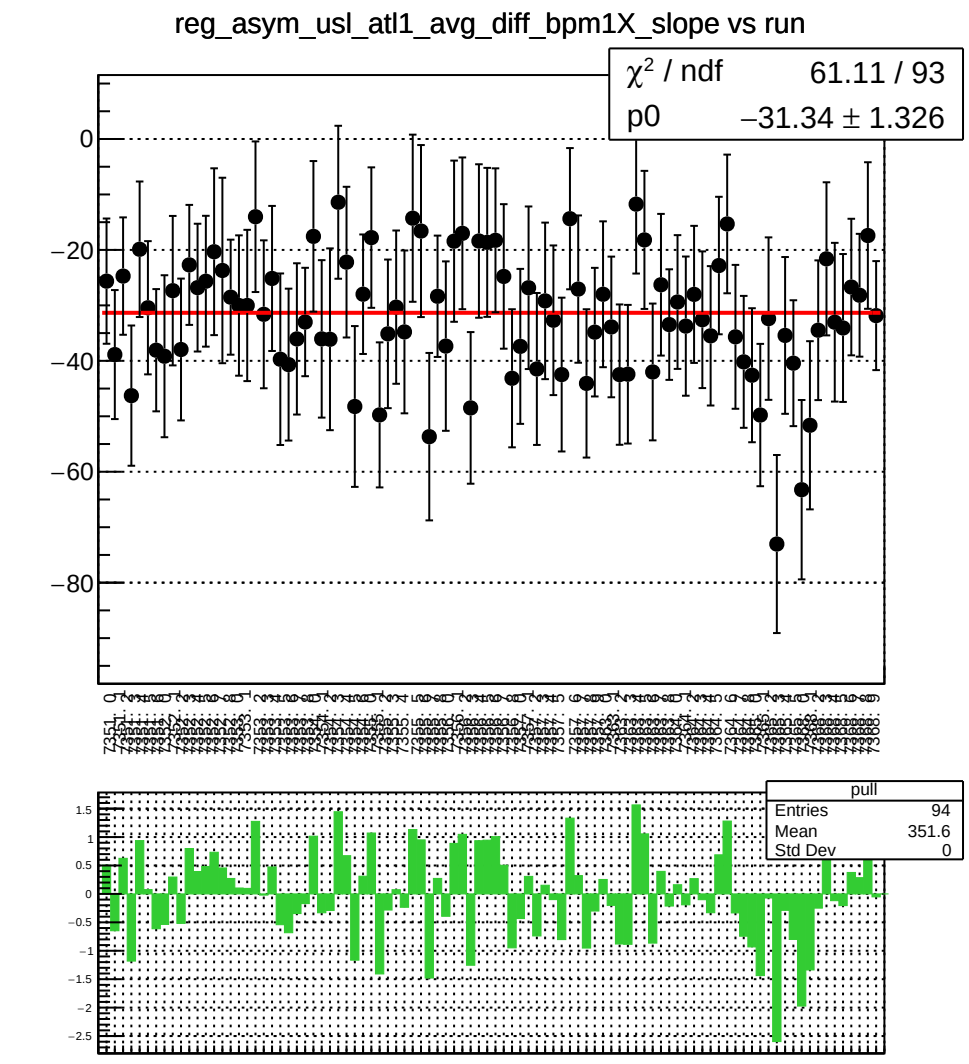

reg_asym_at1_dd_at2_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 110.4 / 93
p0 29.05 ± 0.9272
pull
Entries 94
Mean 163.2
Std Dev 0
pull1D
Entries 94
Mean −0.05512
Std Dev 1.082

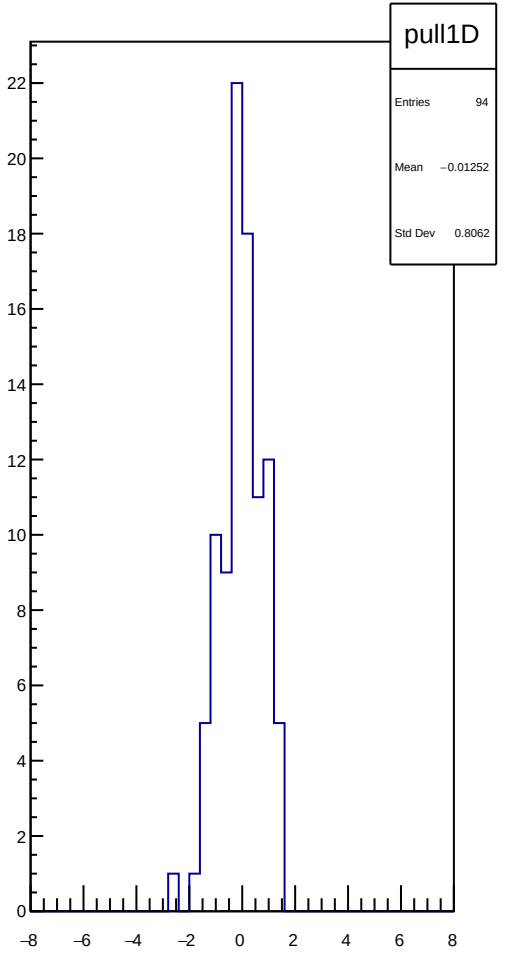

reg_asym_at1_dd_at2_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 82.76 / 93
p0 −11.37 ± 0.894
pull
Entries 94
Mean −401.7
Std Dev 0
pull1D
Entries 94
Mean −0.007368
Std Dev 0.9383

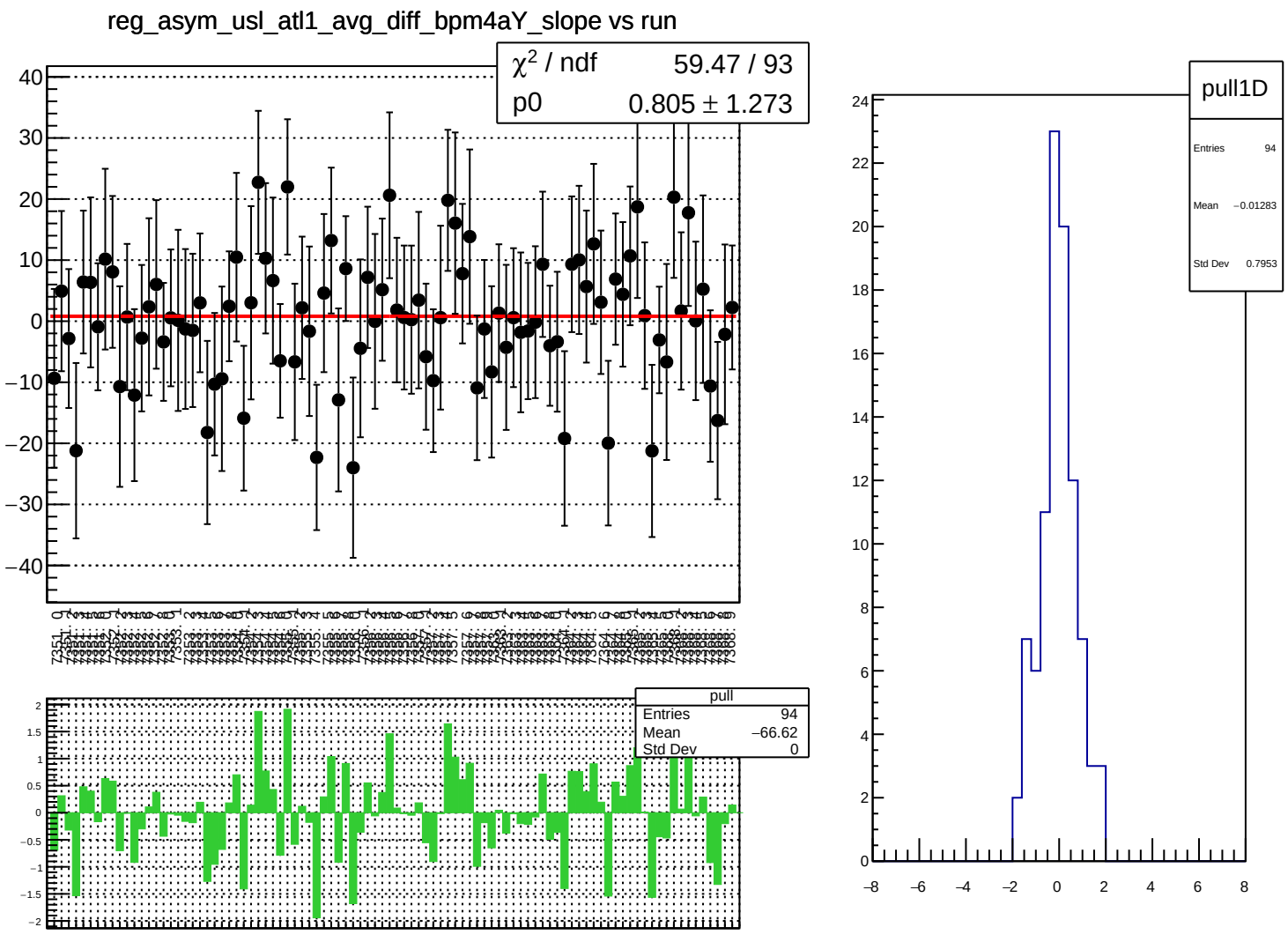

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 119.5 / 93
p0 33.91 ± 0.9205
pull
Entries 94
Mean 153.6
Std Dev 0
pull1D
Entries 94
Mean 0.06202
Std Dev 1.126

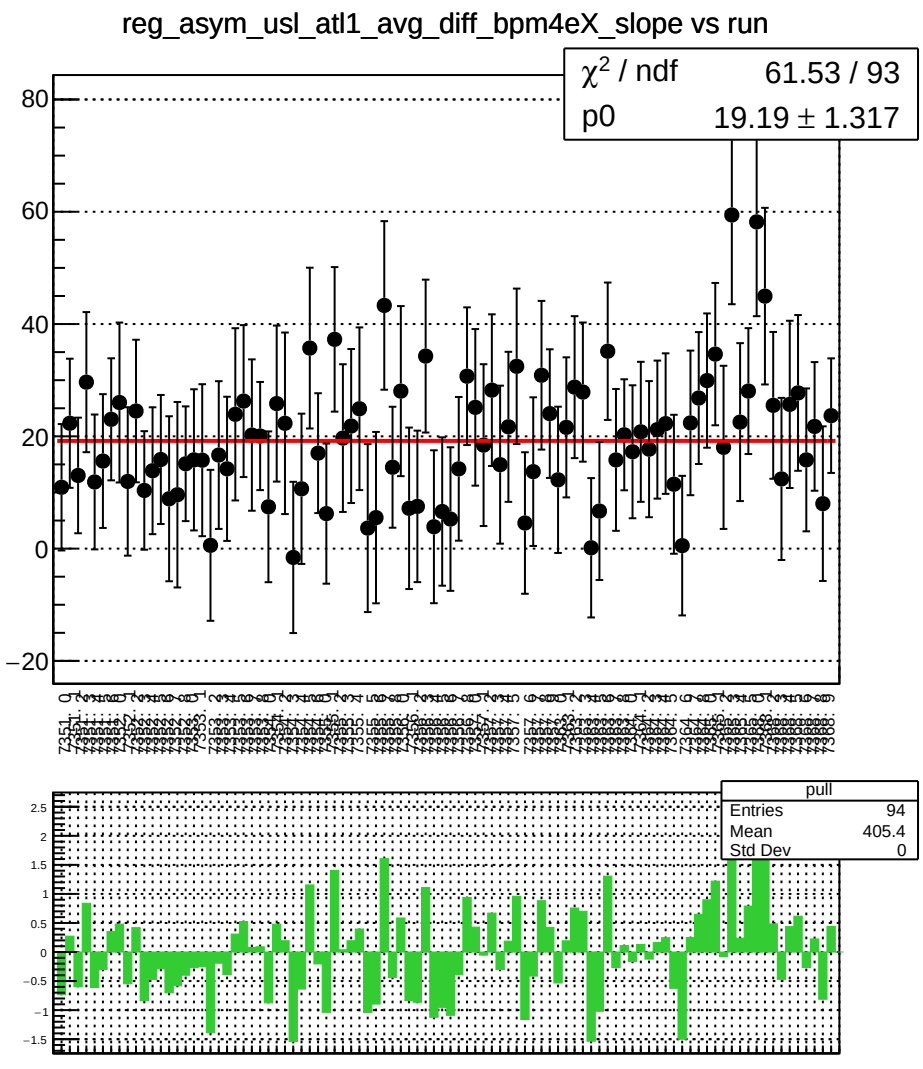

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 91.99 / 93
p0 13.93 ± 0.9451
pull
Entries 94
Mean −993.5
Std Dev 0
pull1D
Entries 94
Mean 0.004828
Std Dev 0.9893

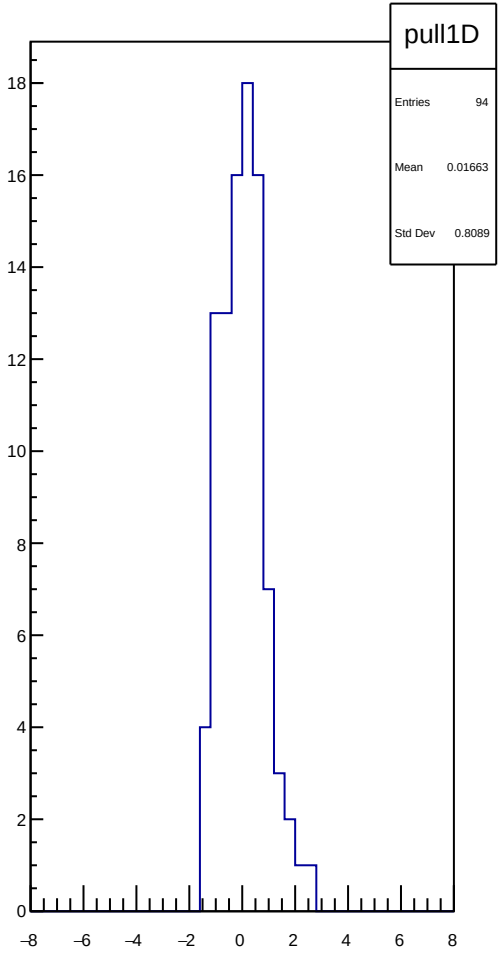

reg_asym_at1_dd_at2_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 537.9 / 93
p0 −2.189 ± 0.0436
pull
Entries 94
Mean 472.4
Std Dev 0
pull1D
Entries 94
Mean 0.363
Std Dev 1.461

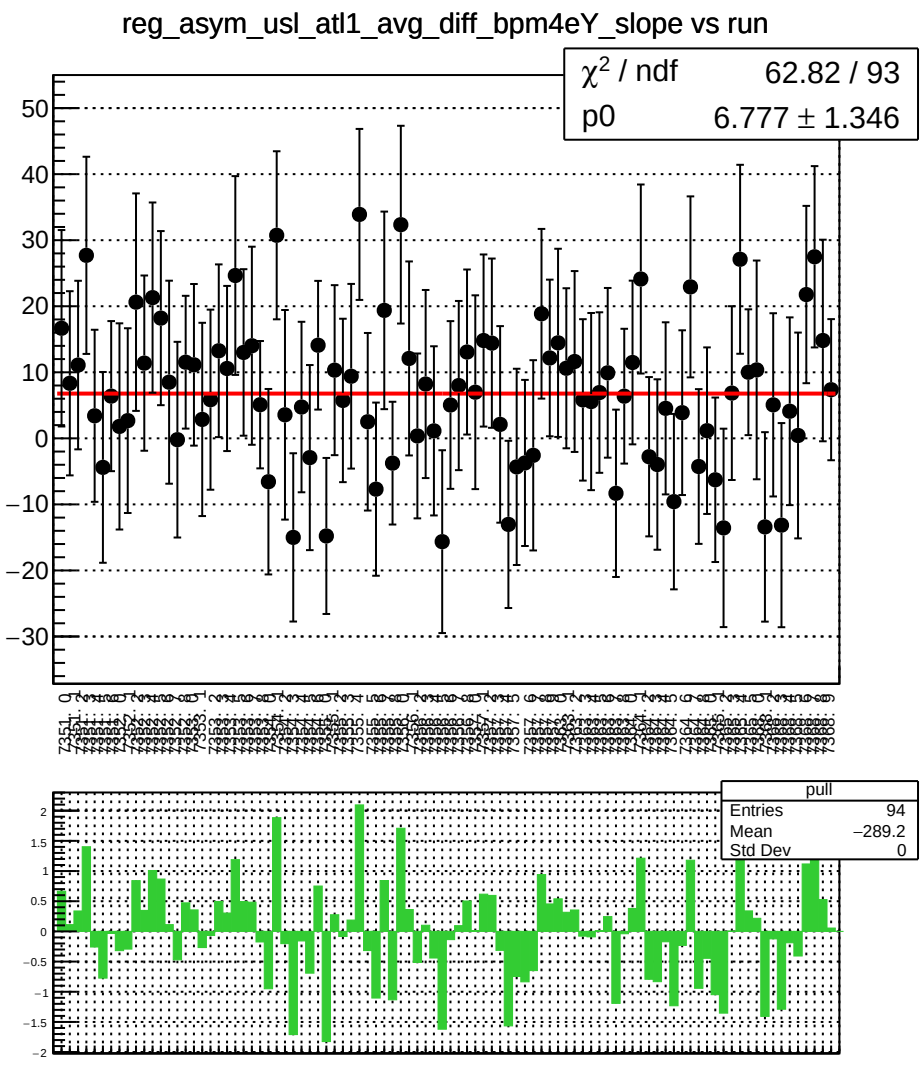

reg_asym_usl_atl1_avg_diff_bpm1X_slope vs run
χ² / ndf 61.11 / 93
p0 −31.34 ± 1.326
pull
Entries 94
Mean 351.6
Std Dev 0

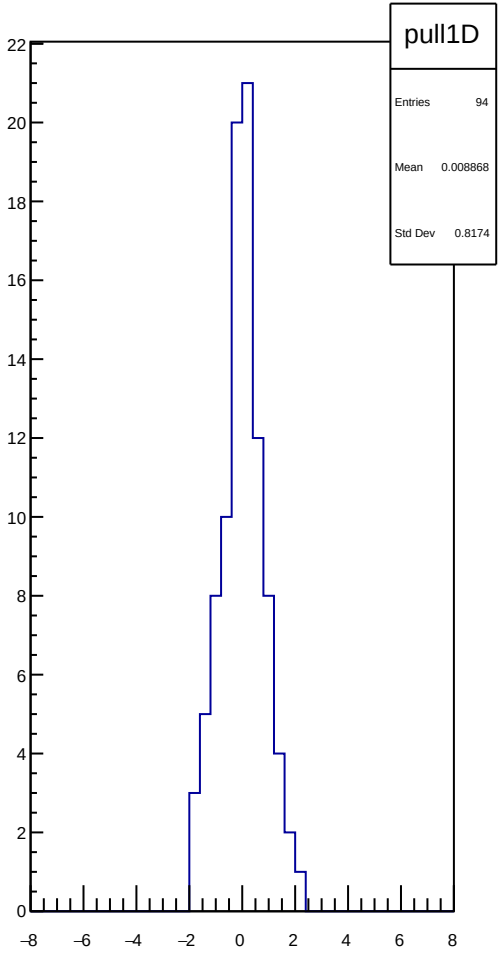

pull1D
Entries 94
Mean −0.01252
Std Dev 0.8062

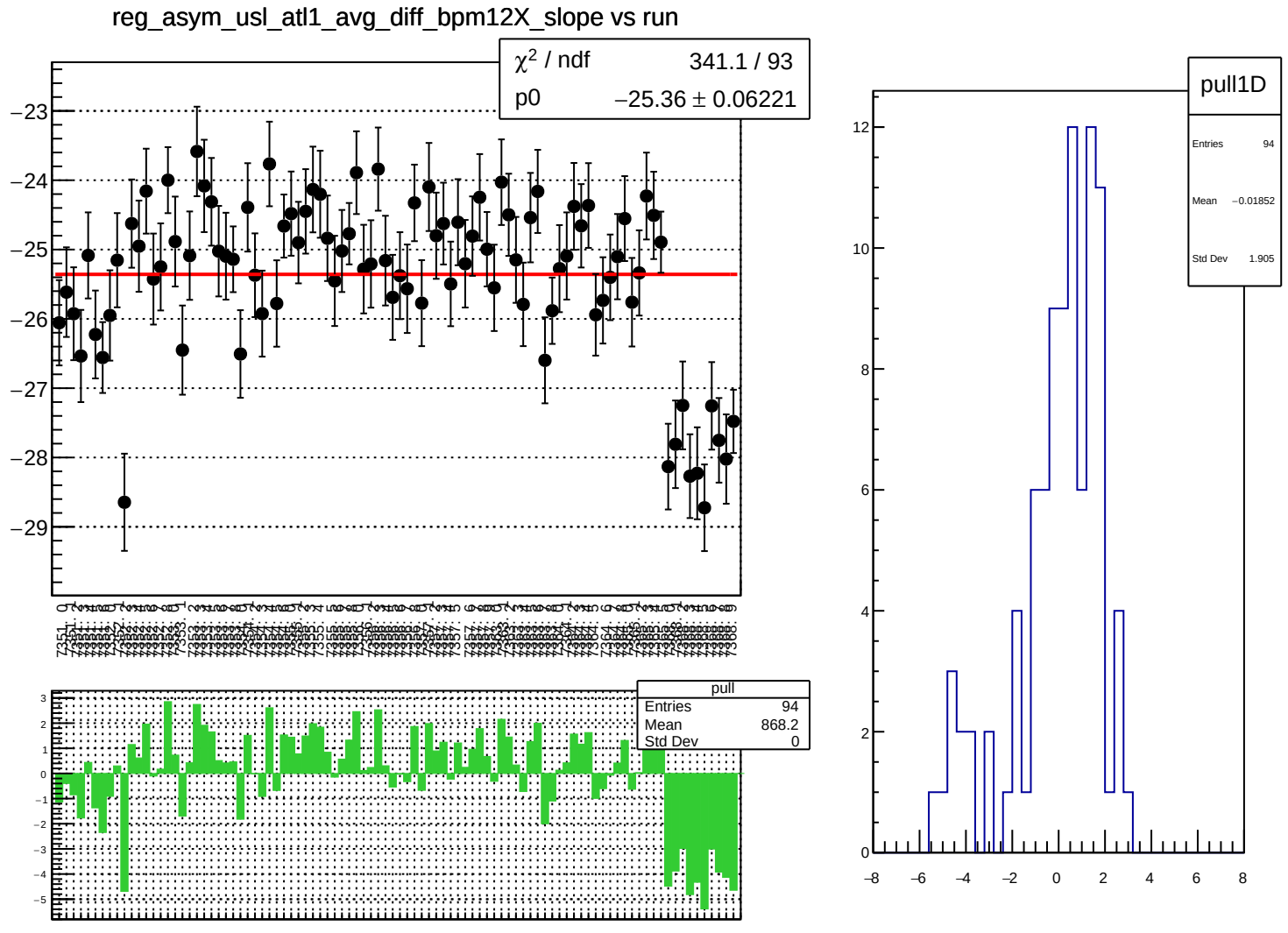

reg_asym_usl_atl1_avg_diff_bpm4aY_slope vs run
χ² / ndf 59.47 / 93
p0 0.805 ± 1.273
pull
Entries 94
Mean −66.62
Std Dev 0
pull1D
Entries 94
Mean −0.01283
Std Dev 0.7953

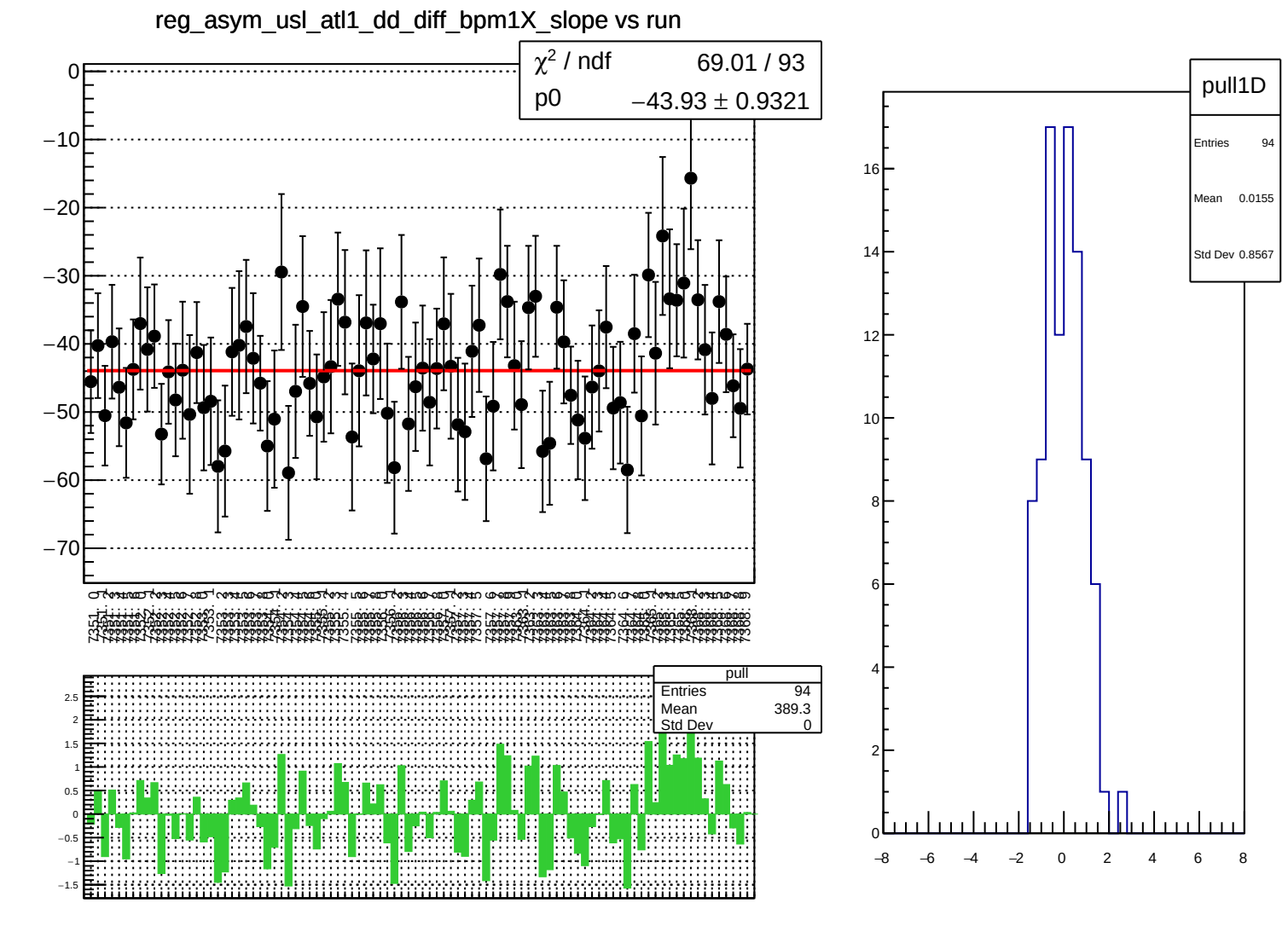

reg_asym_usl_atl1_avg_diff_bpm4eX_slope vs run
χ² / ndf 61.53 / 93
p0 19.19 ± 1.317
pull
Entries 94
Mean 405.4
Std Dev 0

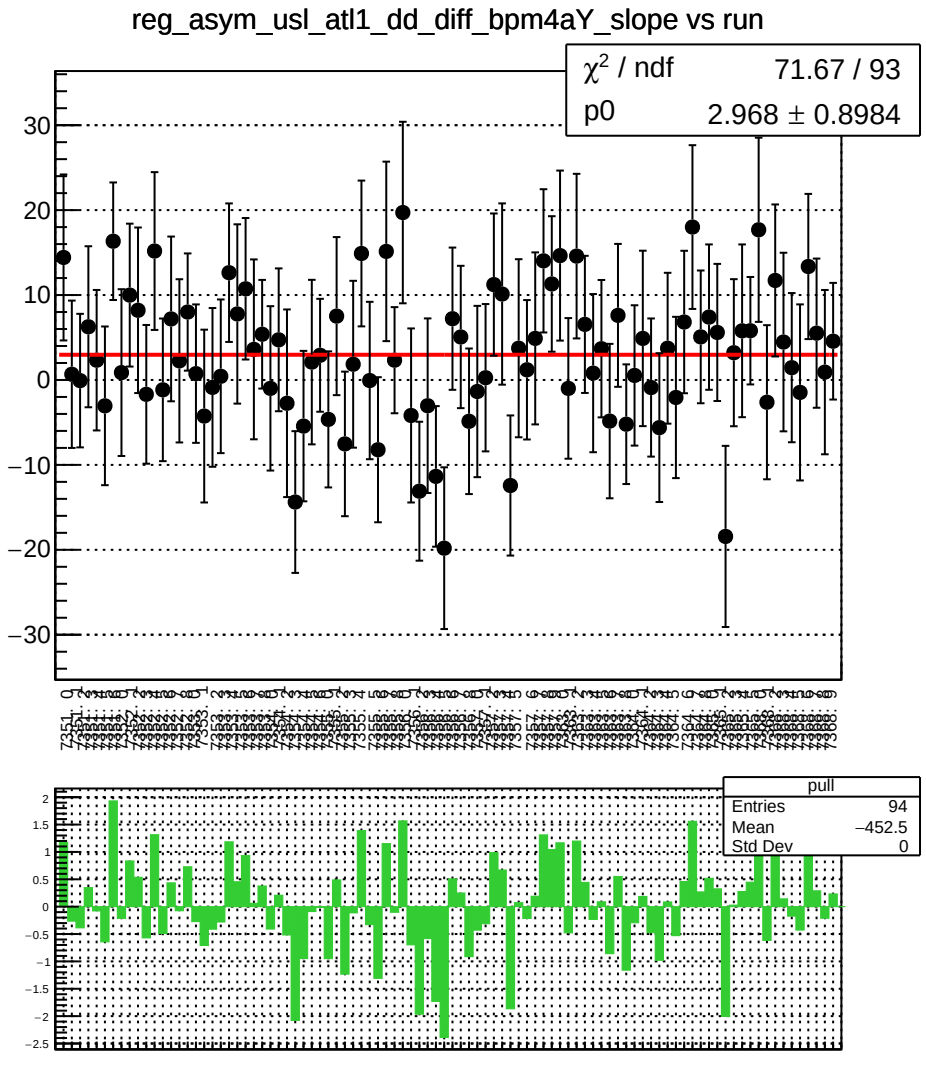

pull1D
Entries 94
Mean 0.01663
Std Dev 0.8089

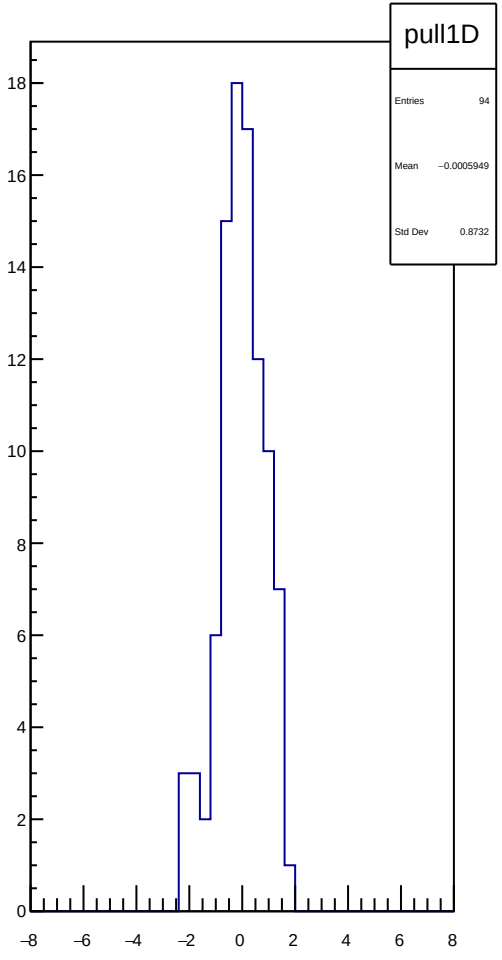

reg_asym_usl_atl1_avg_diff_bpm4eY_slope vs run
χ² / ndf 62.82 / 93
p0 6.777 ± 1.346
pull
Entries 94
Mean −289.2
Std Dev 0

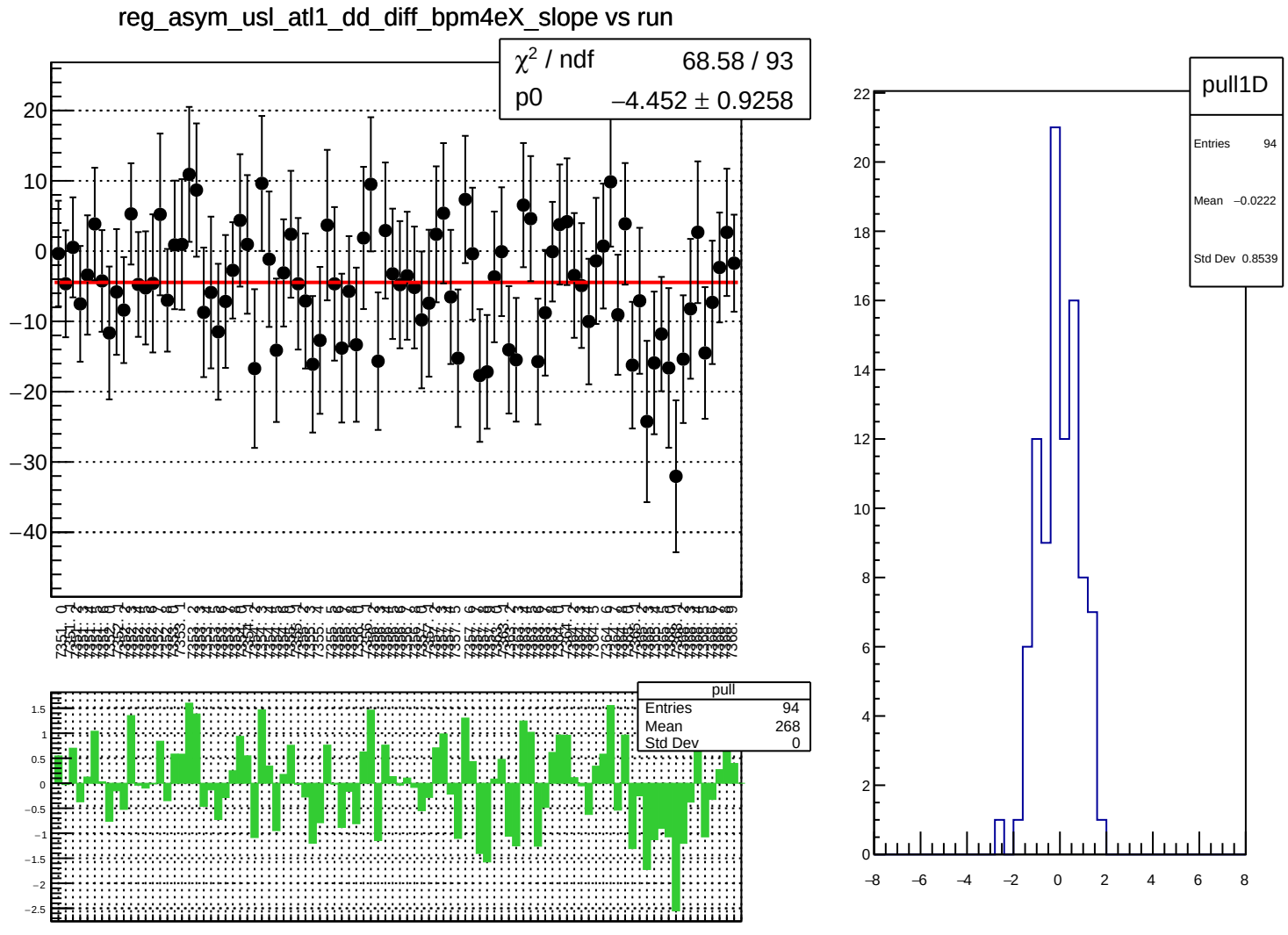

pull1D
Entries 94
Mean 0.008868
Std Dev 0.8174

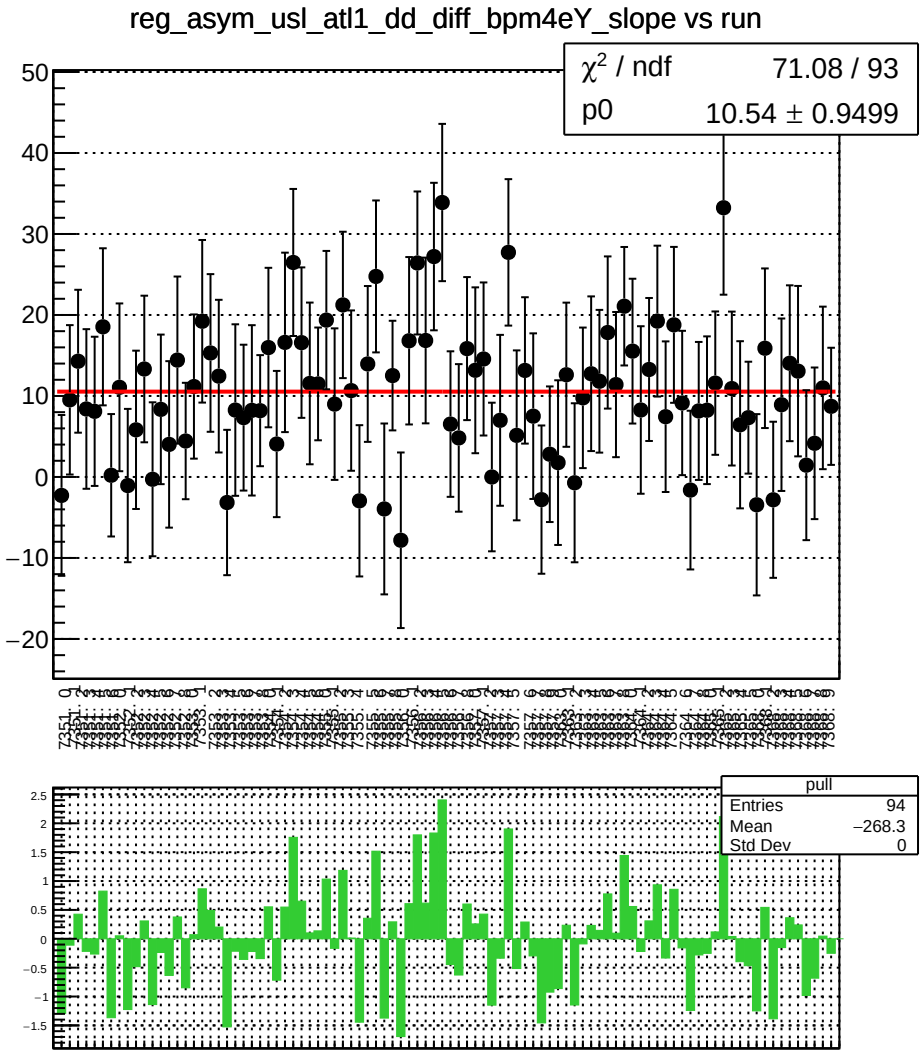

reg_asym_usl_atl1_avg_diff_bpm12X_slope vs run
χ² / ndf 341.1 / 93
p0 −25.36 ± 0.06221
pull
Entries 94
Mean 868.2
Std Dev 0
pull1D
Entries 94
Mean −0.01852
Std Dev 1.905

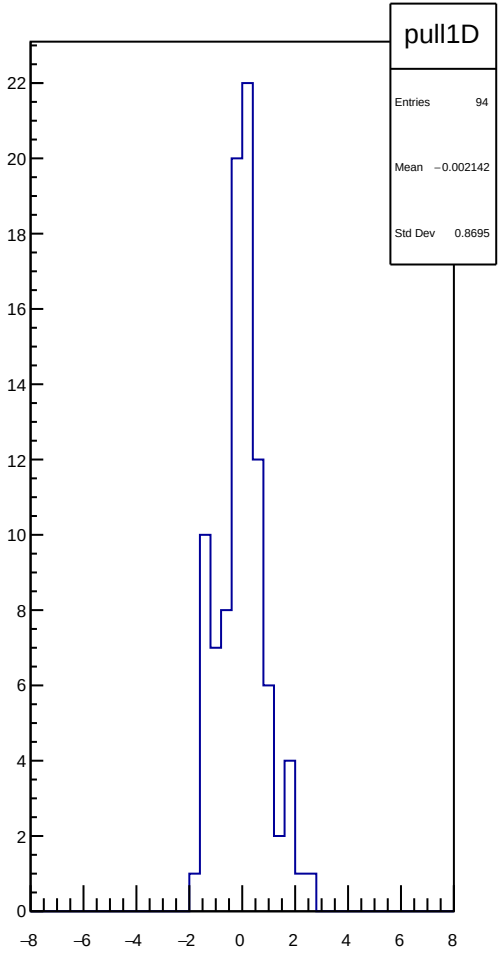

reg_asym_usl_atl1_dd_diff_bpm1X_slope vs run
χ² / ndf 69.01 / 93
p0 −43.93 ± 0.9321
pull
Entries 94
Mean 389.3
Std Dev 0
pull1D
Entries 94
Mean 0.0155
Std Dev 0.8567

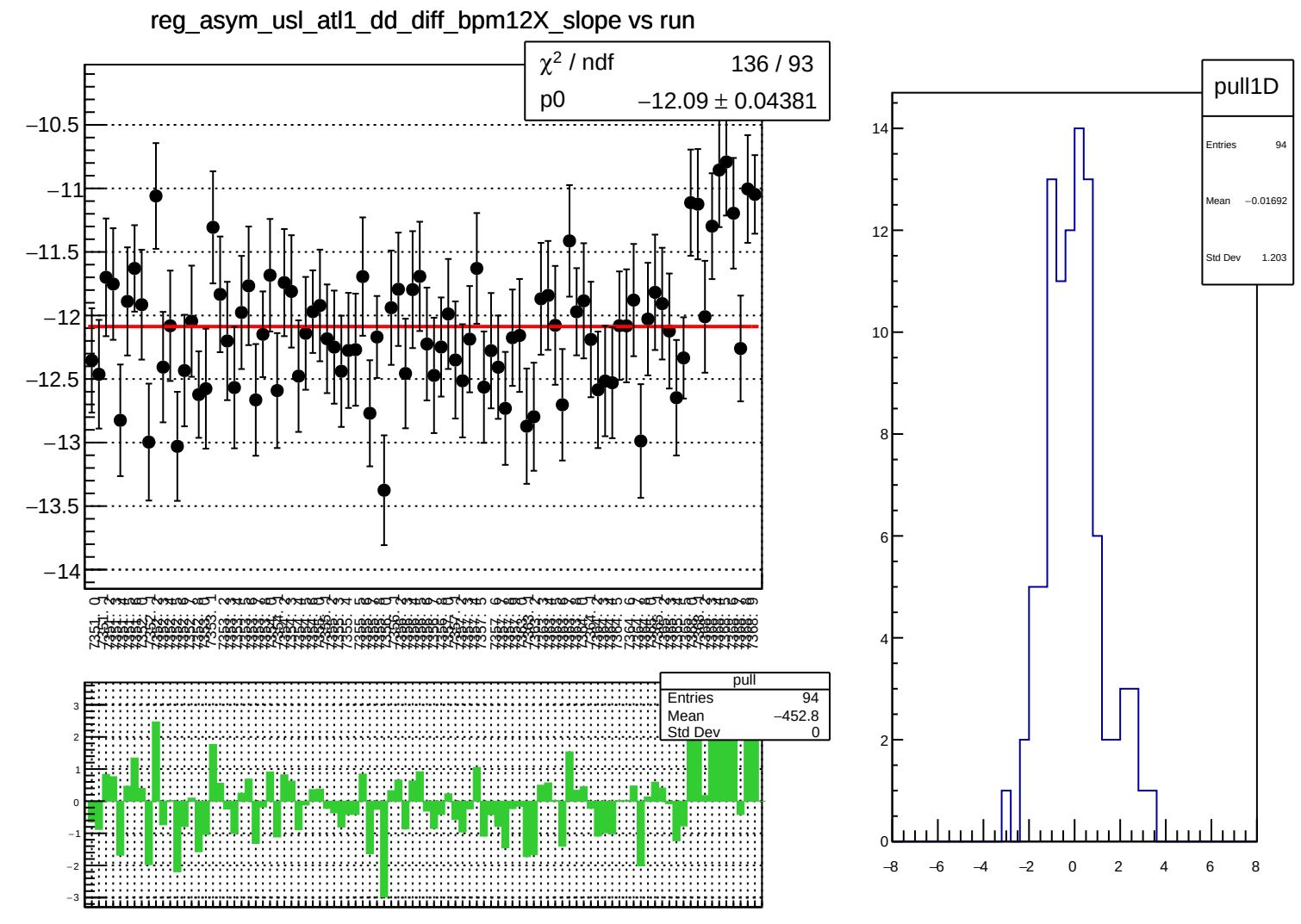

reg_asym_usl_atl1_dd_diff_bpm4aY_slope vs run
χ² / ndf 71.67 / 93
p0 2.968 ± 0.8984
pull
Entries 94
Mean −452.5
Std Dev 0

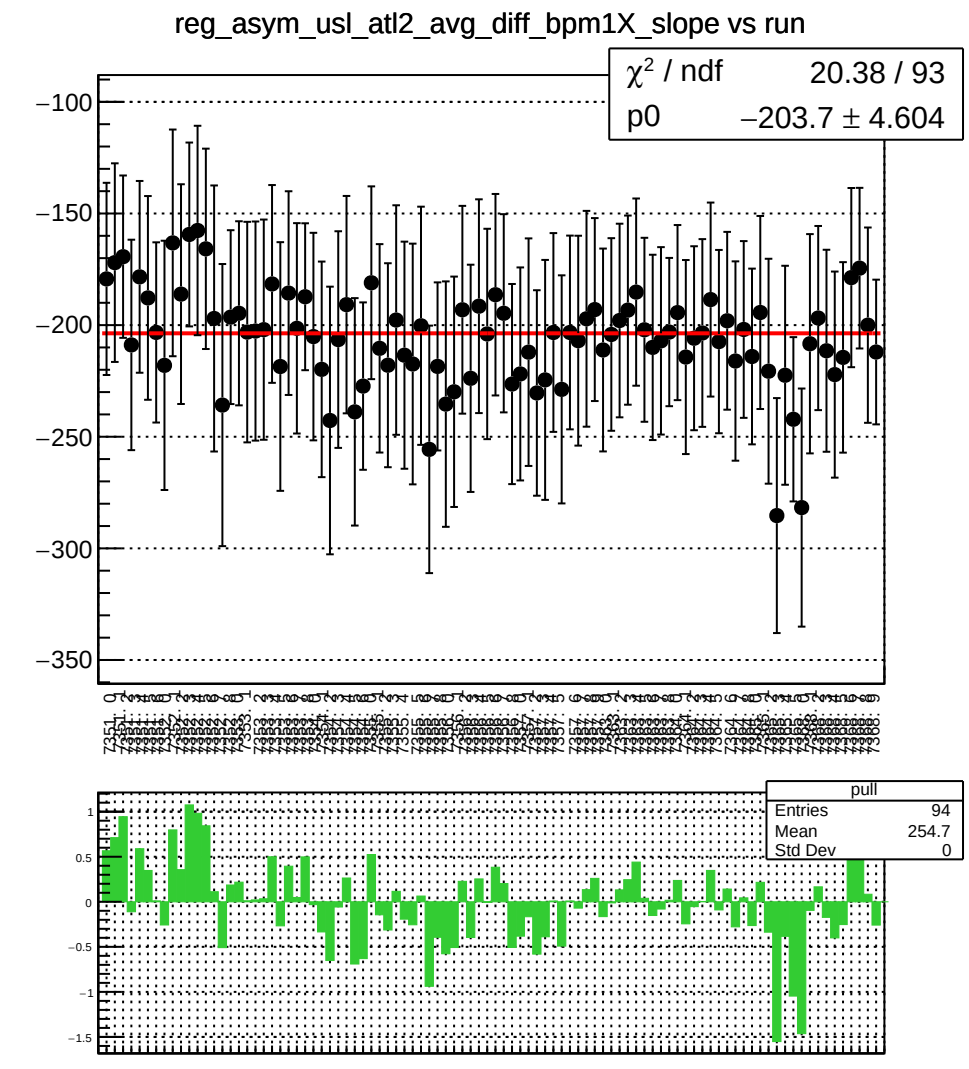

pull1D
Entries 94
Mean −0.0005949
Std Dev 0.8732

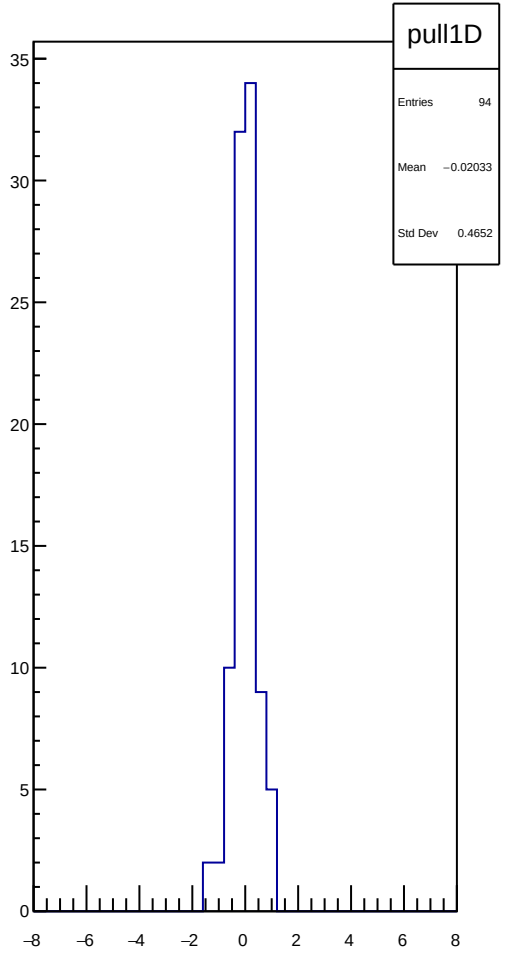

reg_asym_usl_atl1_dd_diff_bpm4eX_slope vs run
χ² / ndf 68.58 / 93
p0 −4.452 ± 0.9258
pull
Entries 94
Mean 268
Std Dev 0
pull1D
Entries 94
Mean −0.0222
Std Dev 0.8539

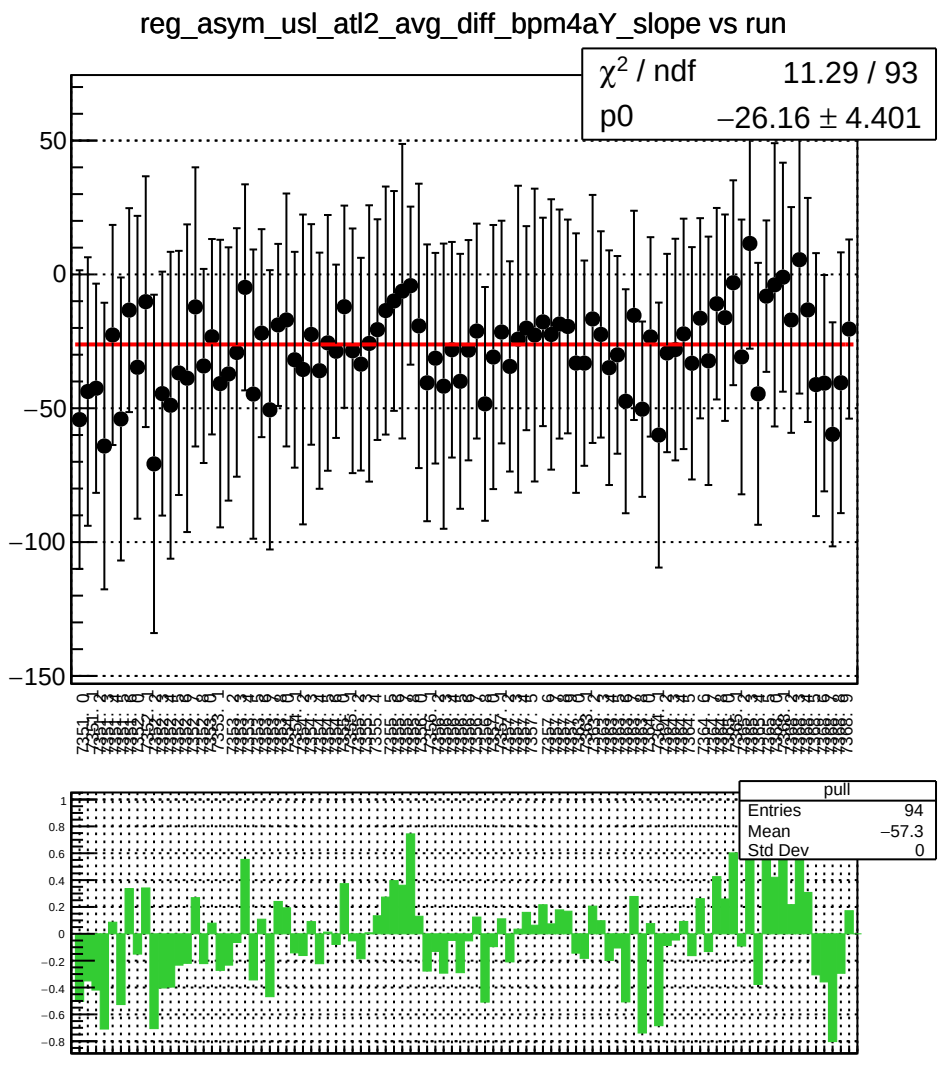

reg_asym_usl_atl1_dd_diff_bpm4eY_slope vs run
χ² / ndf 71.08 / 93
p0 10.54 ± 0.9499
pull
Entries 94
Mean −268.3
Std Dev 0

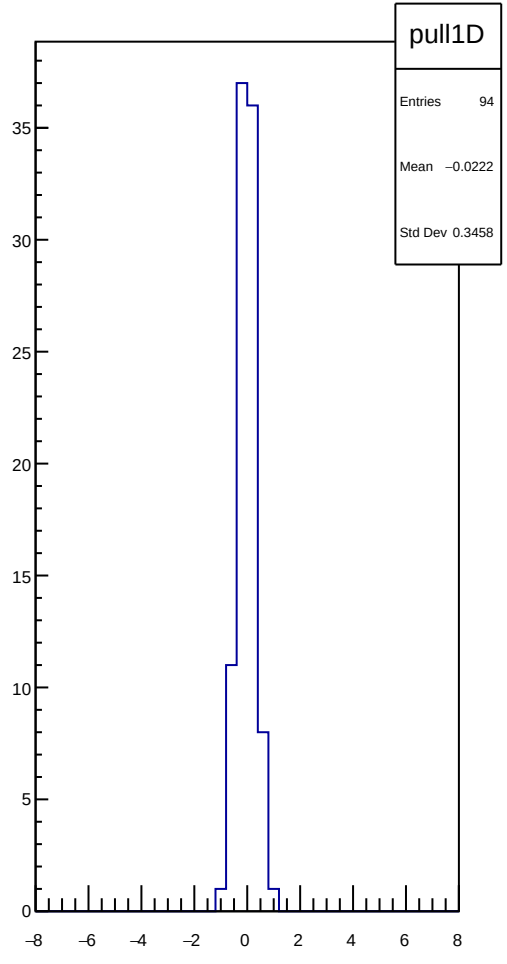

pull1D
Entries 94
Mean −0.002142
Std Dev 0.8695

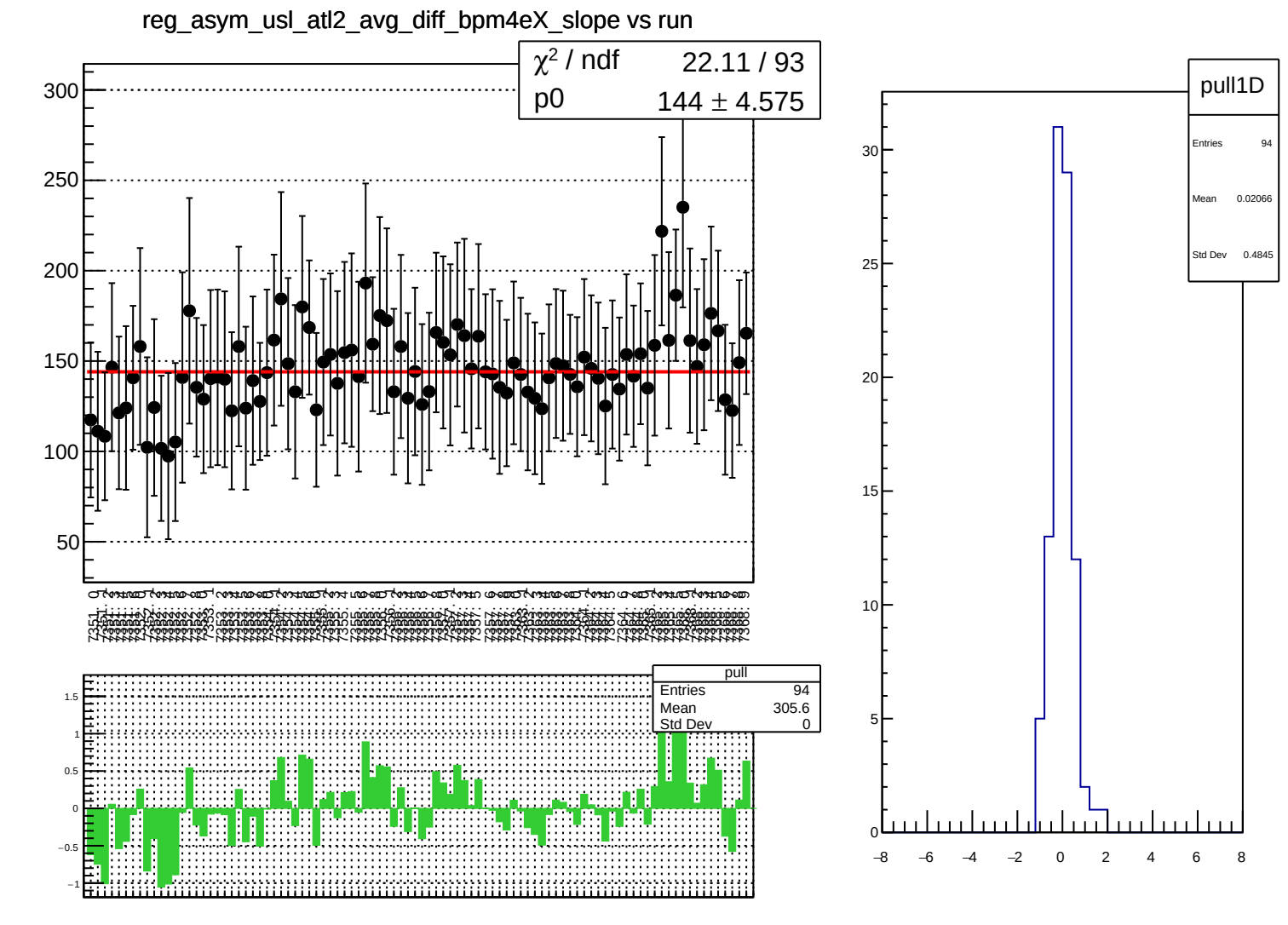

reg_asym_usl_atl1_dd_diff_bpm12X_slope vs run
χ² / ndf 136 / 93
p0 −12.09 ± 0.04381
pull
Entries 94
Mean −452.8
Std Dev 0
pull1D
Entries 94
Mean −0.01692
Std Dev 1.203

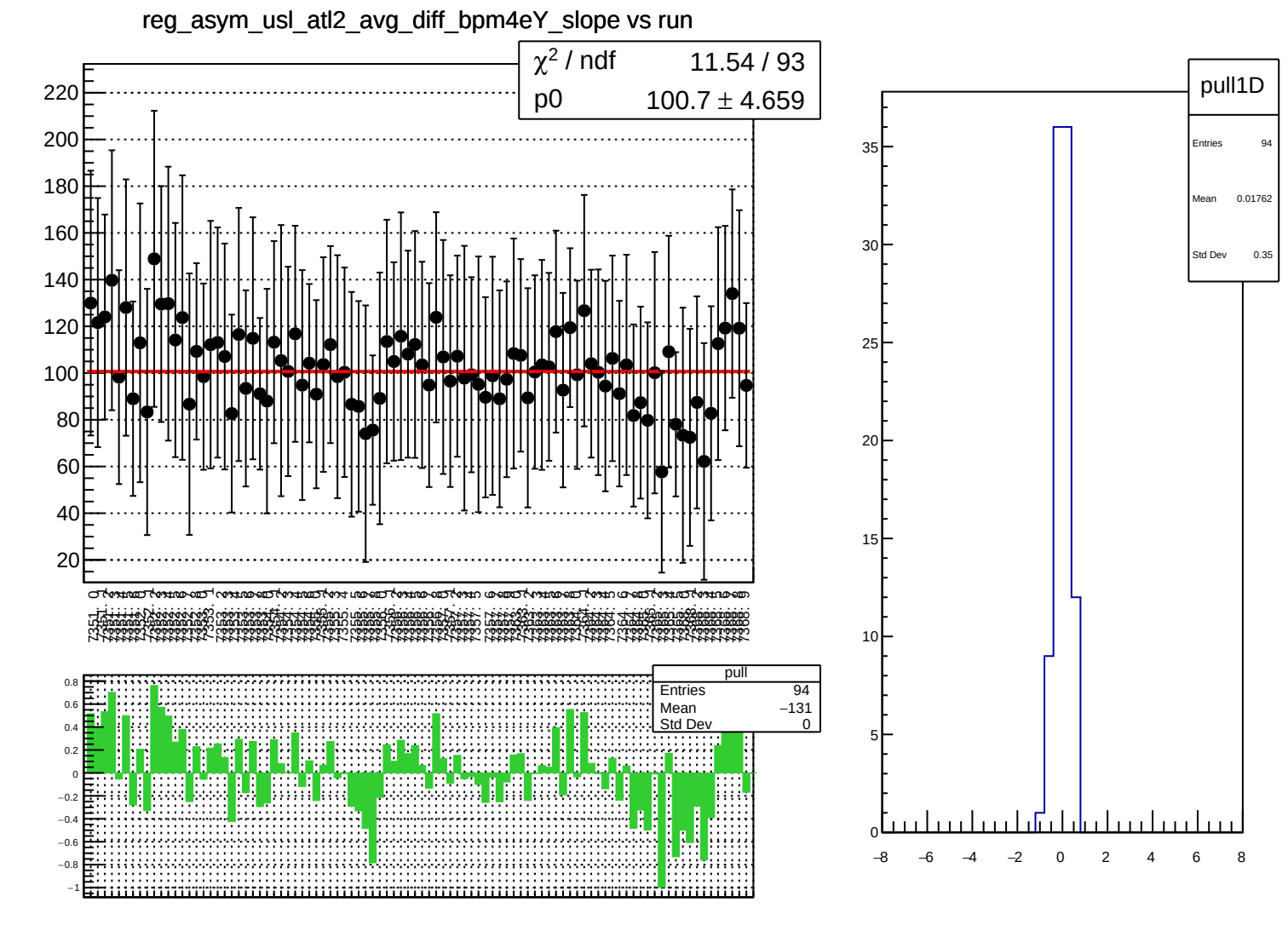

reg_asym_usl_atl2_avg_diff_bpm1X_slope vs run
χ² / ndf 20.38 / 93
p0 −203.7 ± 4.604
pull
Entries 94
Mean 254.7
Std Dev 0

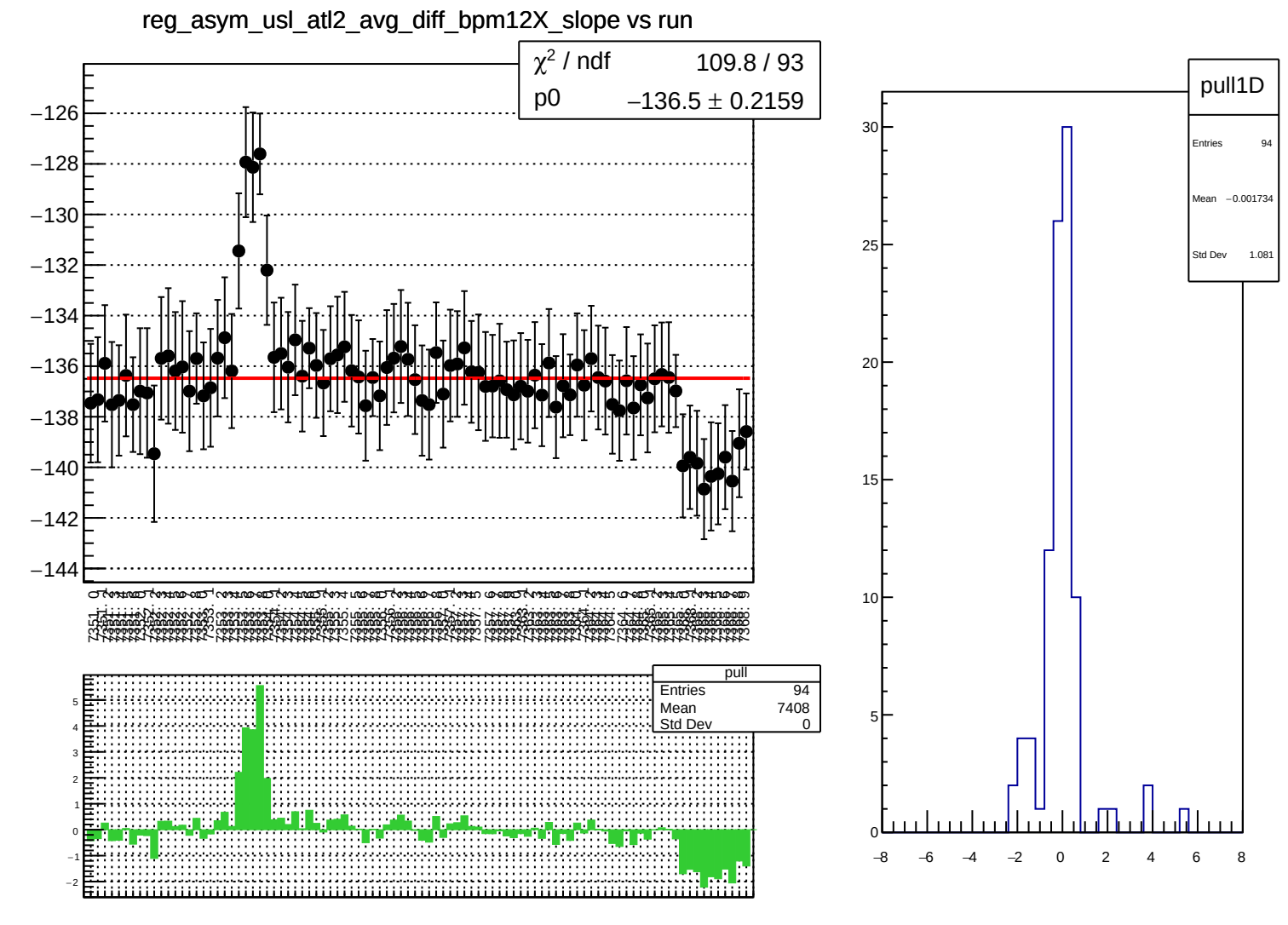

pull1D
Entries 94
Mean −0.02033
Std Dev 0.4652

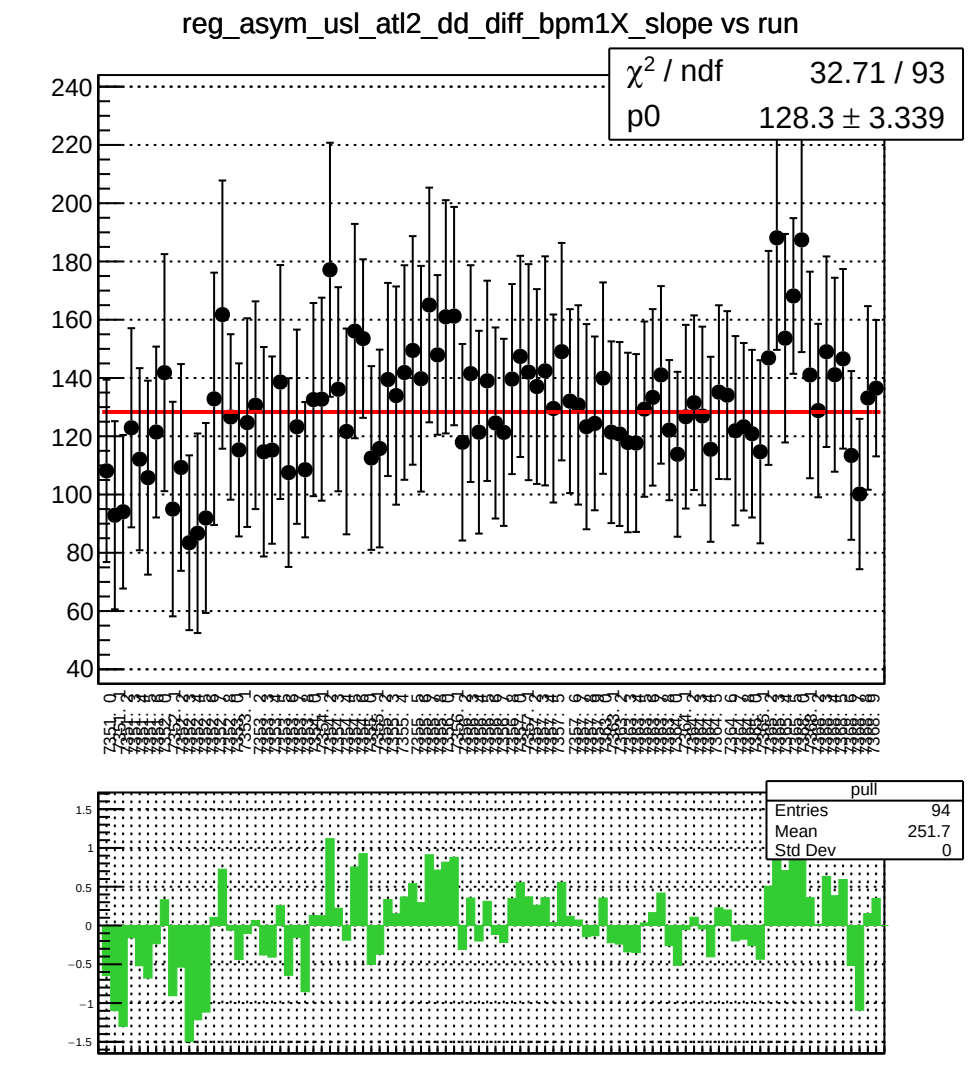

reg_asym_usl_atl2_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.29 / 93
p0 −26.16 ± 4.401
50
0
−50
−100
−150
pull
Entries 94
Mean −57.3
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

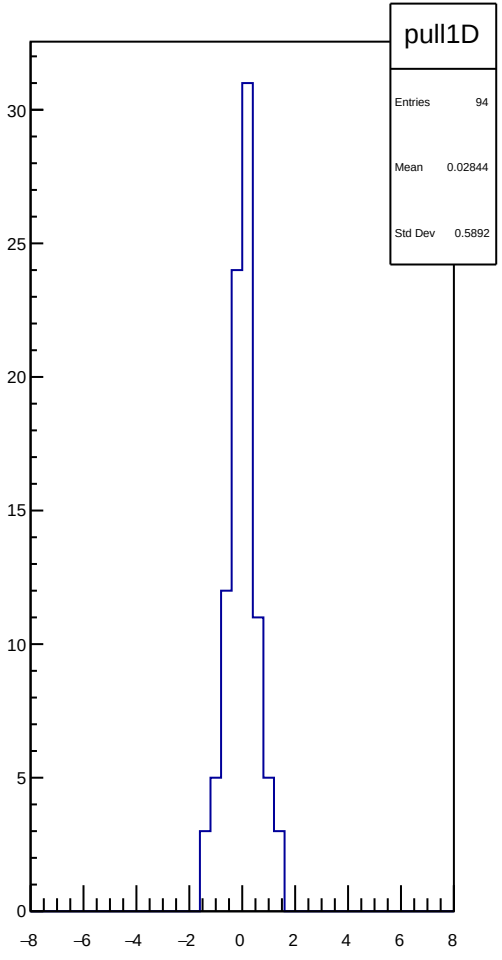

pull1D
Entries 94
Mean −0.0222
Std Dev 0.3458
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

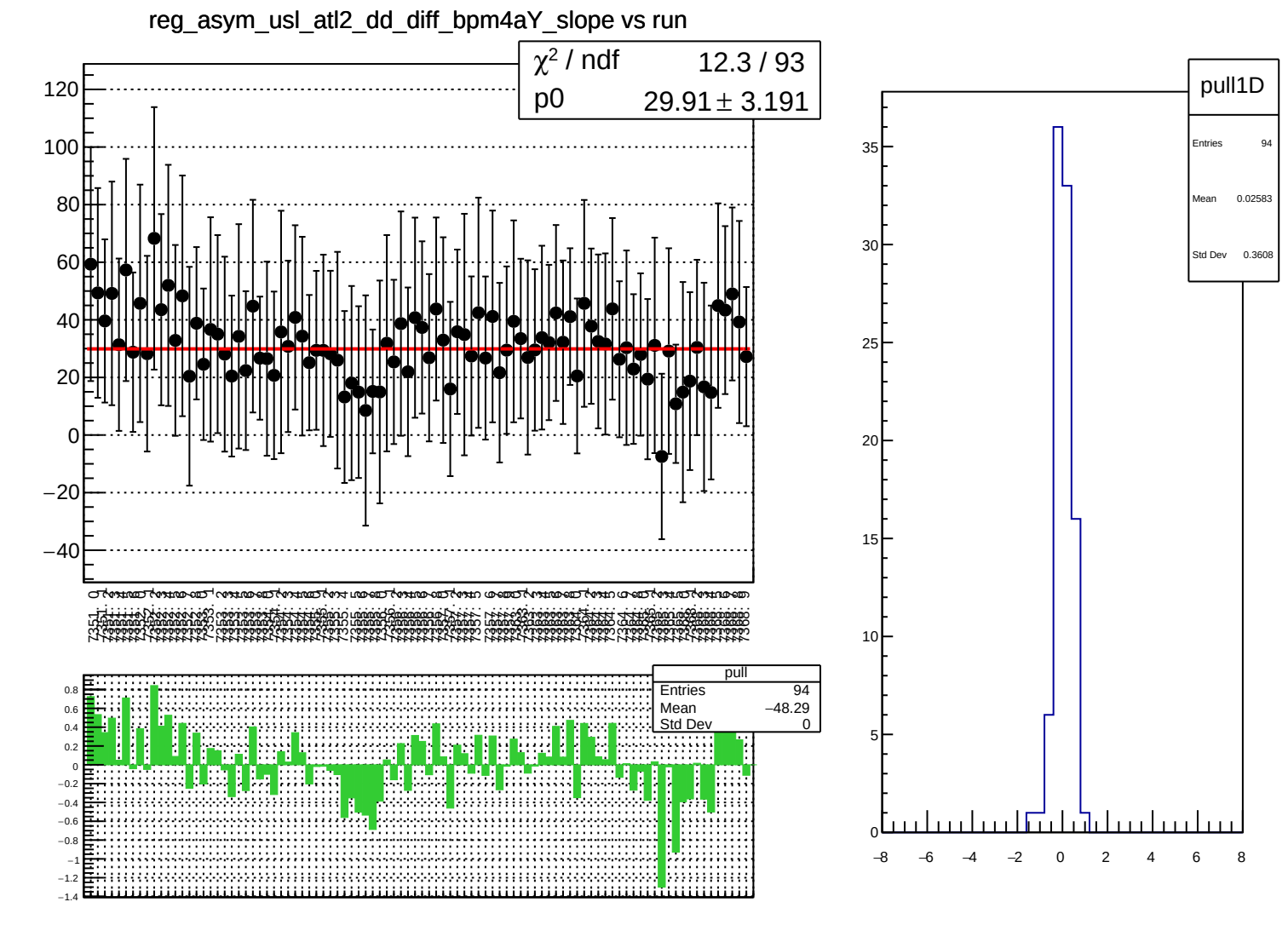

reg_asym_usl_atl2_avg_diff_bpm4eX_slope vs run
χ² / ndf 22.11 / 93
p0 144 ± 4.575
300
250
200
150
100
50
pull
Entries 94
Mean 305.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 94
Mean 0.02066
Std Dev 0.4845
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

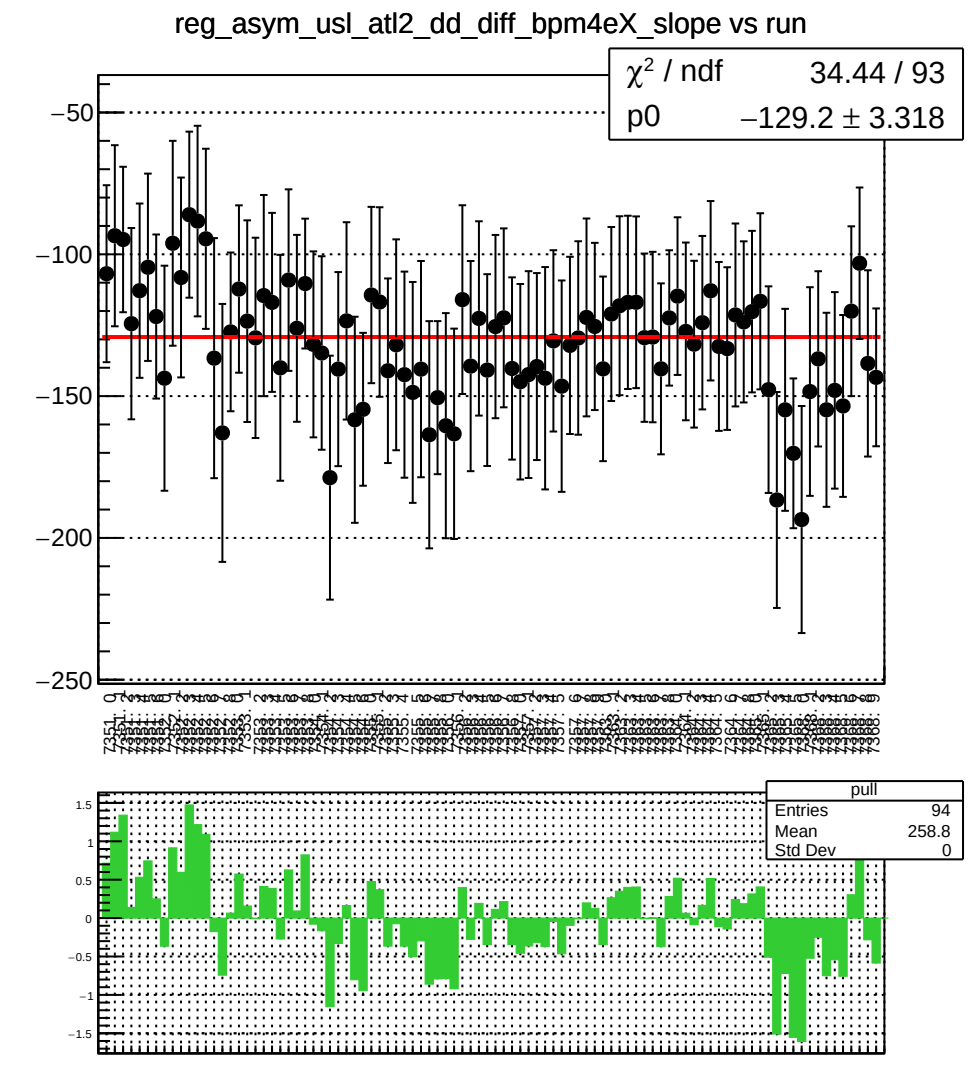

reg_asym_usl_atl2_avg_diff_bpm4eY_slope vs run
χ² / ndf 11.54 / 93
p0 100.7 ± 4.659
pull
Entries 94
Mean −131
Std Dev 0
pull1D
Entries 94
Mean 0.01762
Std Dev 0.35

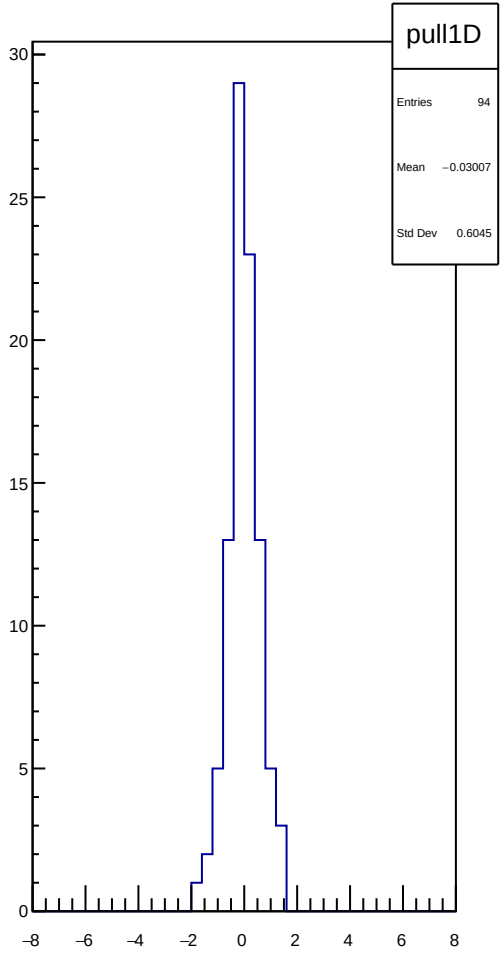

reg_asym_usl_atl2_avg_diff_bpm12X_slope vs run
χ² / ndf 109.8 / 93
p0 −136.5 ± 0.2159
−126
−128
−130
−132
−134
−136
−138
−140
−142
−144
pull
Entries 94
Mean 7408
Std Dev 0
5
4
3
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.001734
Std Dev 1.081
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

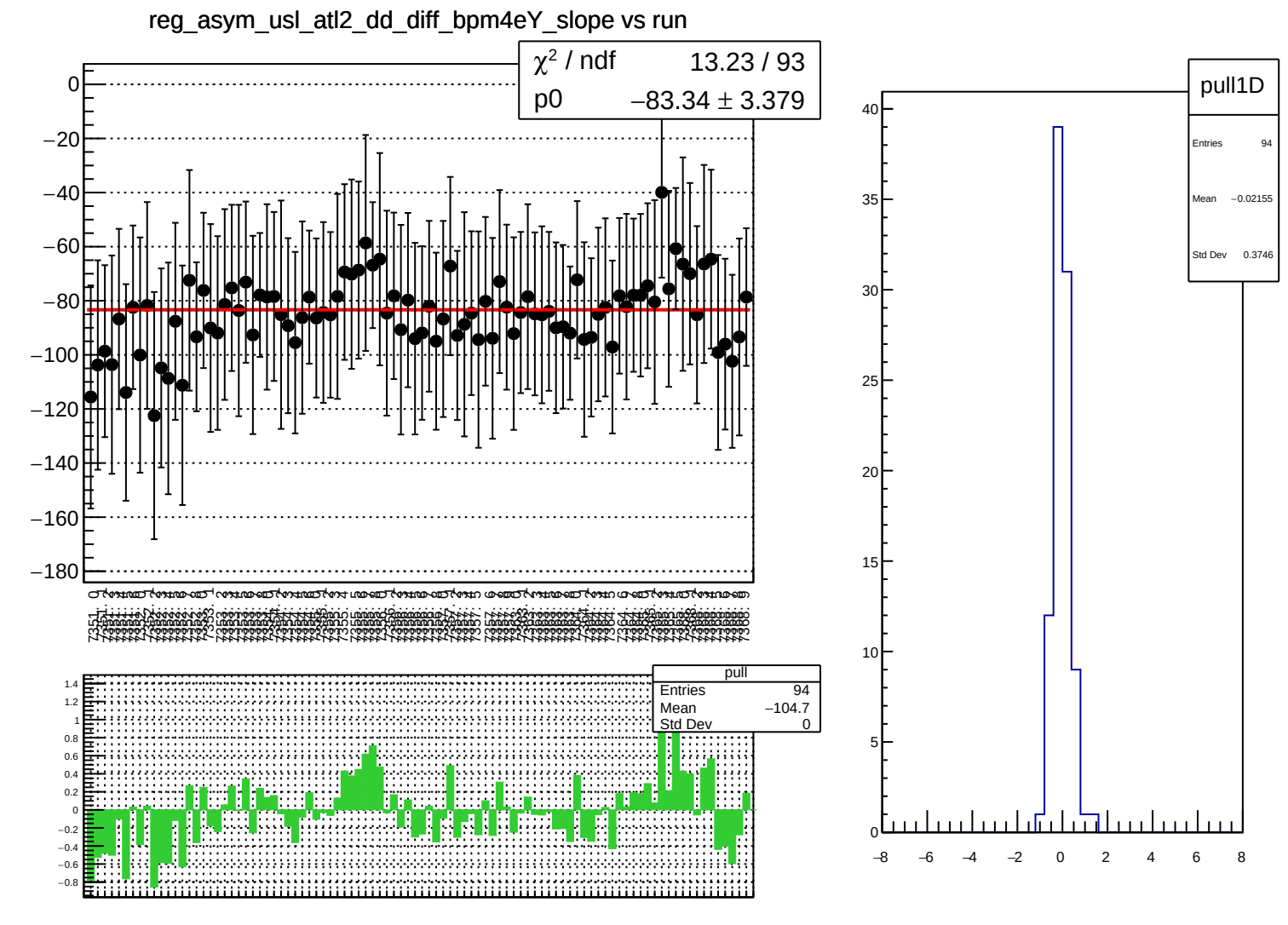

reg_asym_usl_atl2_dd_diff_bpm1X_slope vs run
χ² / ndf 32.71 / 93
p0 128.3 ± 3.339
pull
Entries 94
Mean 251.7
Std Dev 0

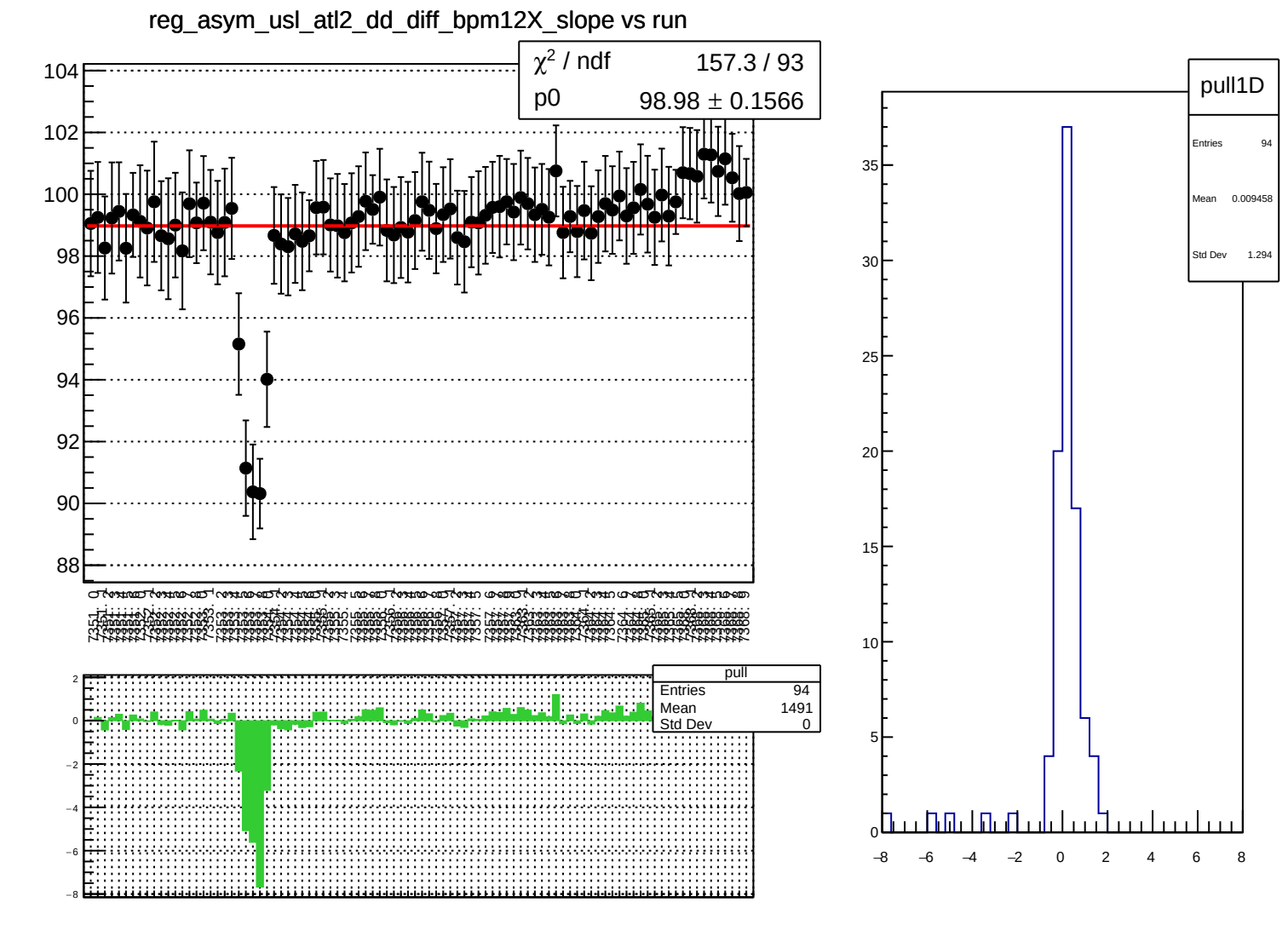

pull1D
Entries 94
Mean 0.02844
Std Dev 0.5892

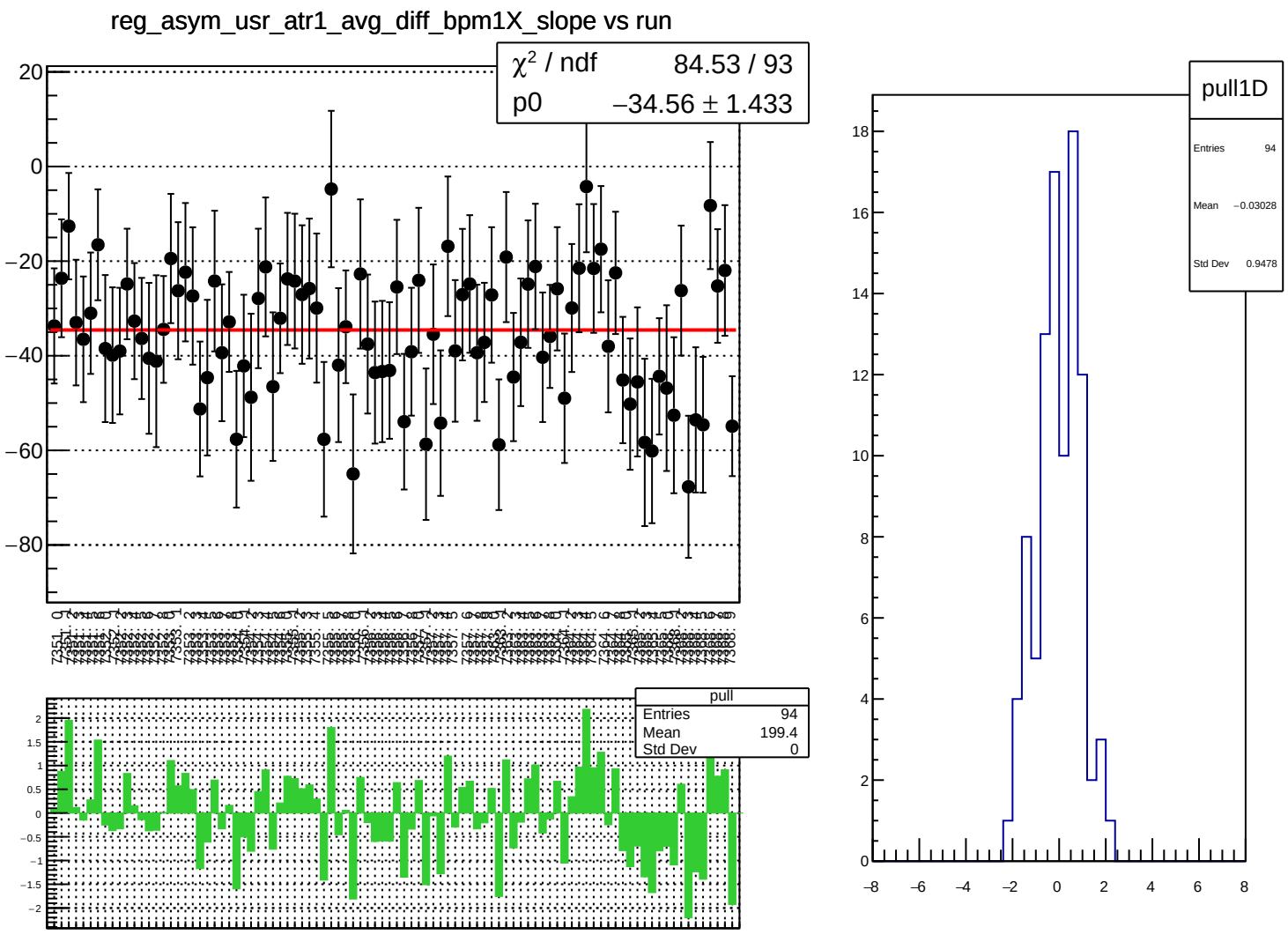

reg_asym_usl_atl2_dd_diff_bpm4aY_slope vs run
χ² / ndf 12.3 / 93
p0 29.91 ± 3.191
pull
Entries 94
Mean −48.29
Std Dev 0
pull1D
Entries 94
Mean 0.02583
Std Dev 0.3608

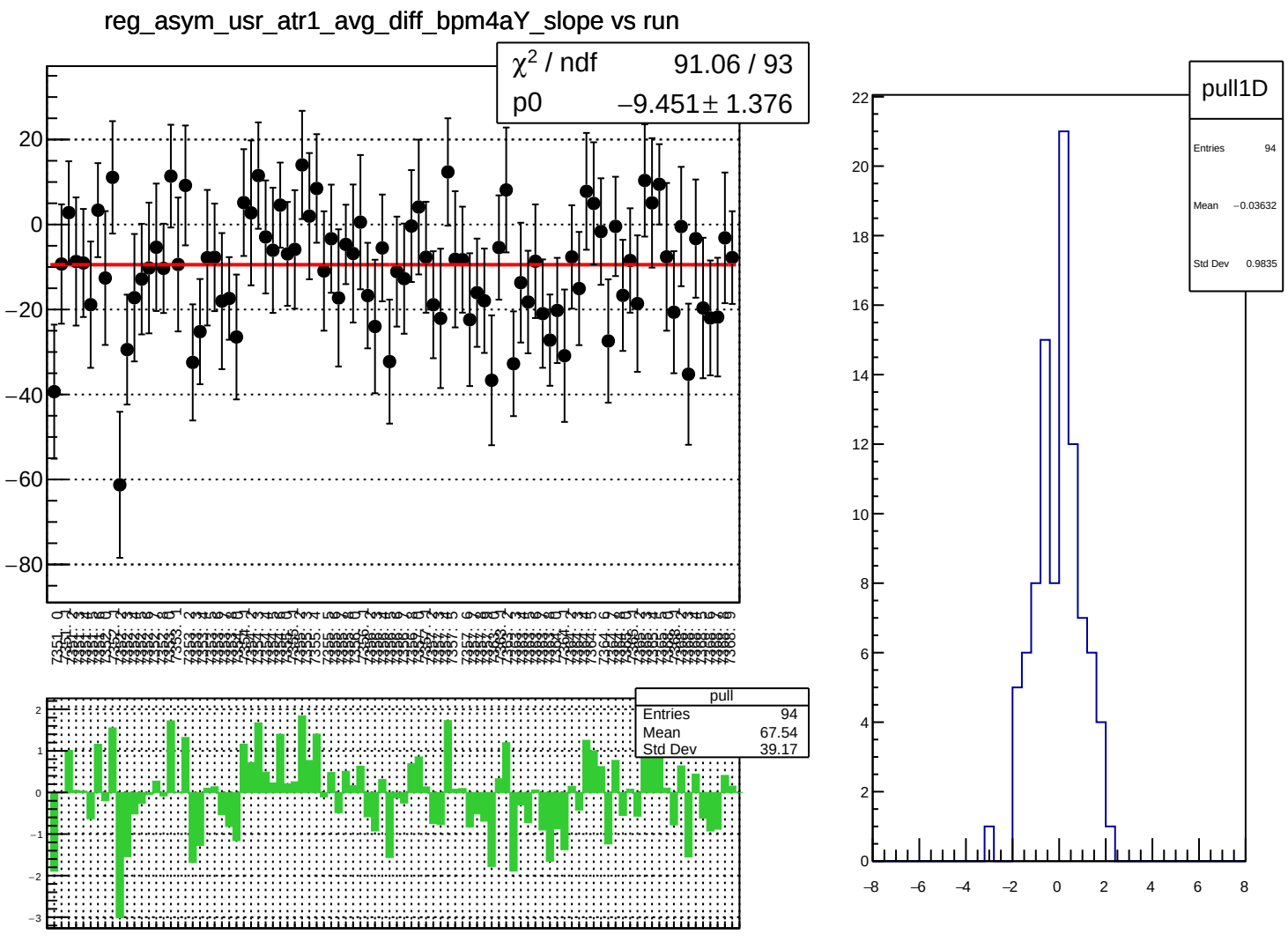

reg_asym_usl_atl2_dd_diff_bpm4eX_slope vs run
χ² / ndf 34.44 / 93
p0 −129.2 ± 3.318
−50
−100
−150
−200
−250
pull
Entries 94
Mean 258.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

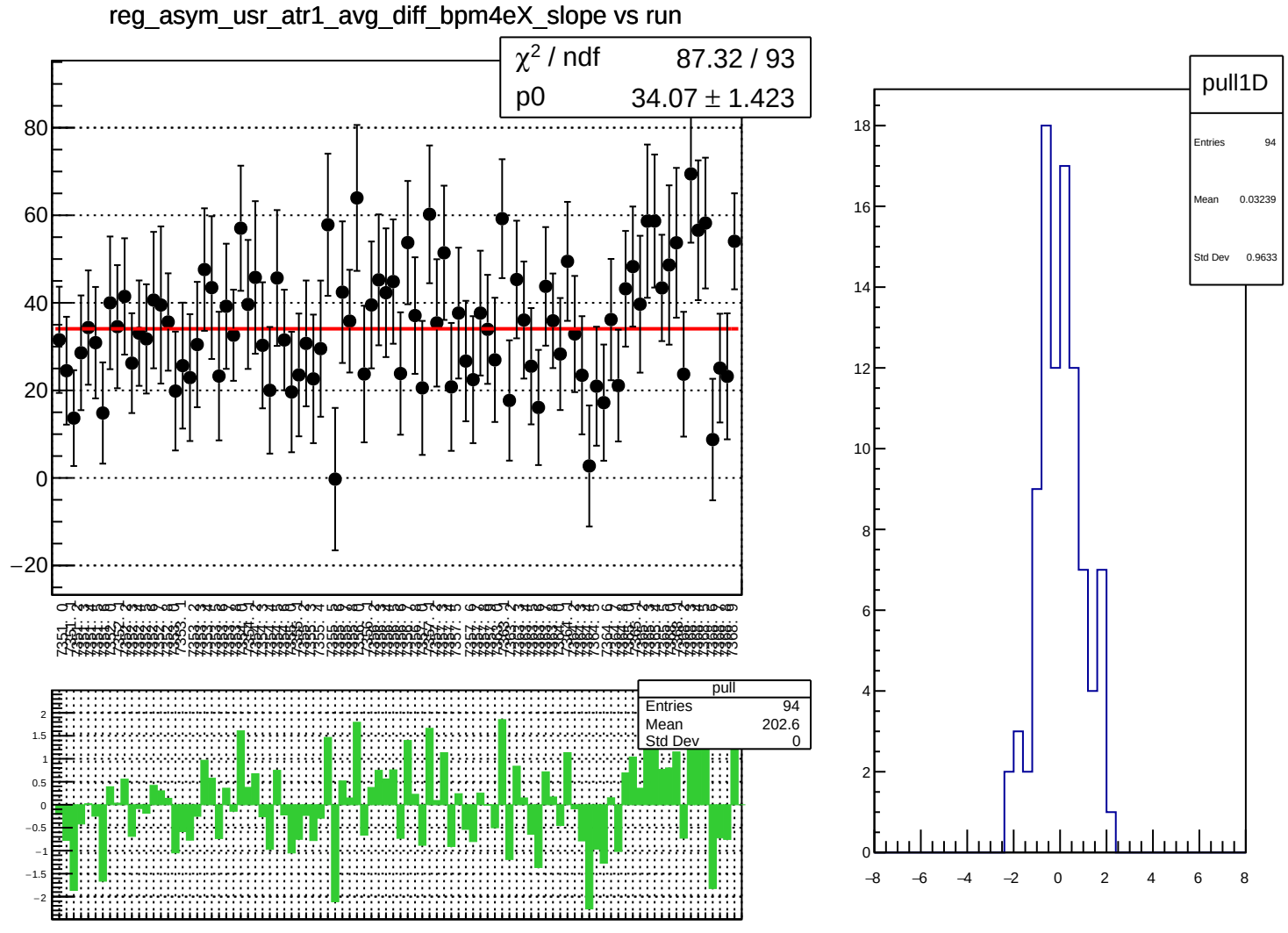

pull1D
Entries 94
Mean −0.03007
Std Dev 0.6045
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

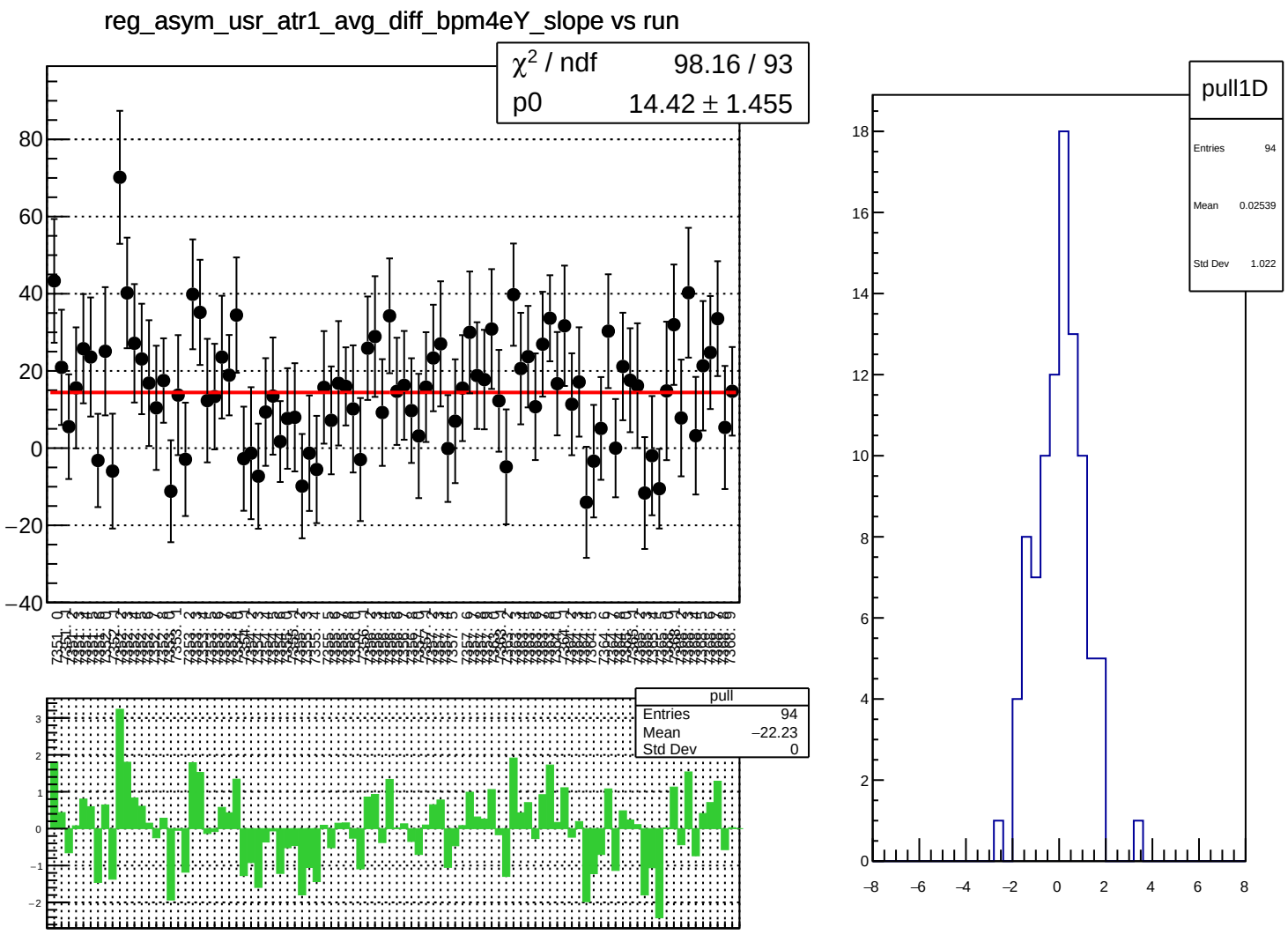

reg_asym_usl_atl2_dd_diff_bpm4eY_slope vs run
χ² / ndf 13.23 / 93
p0 −83.34 ± 3.379
pull
Entries 94
Mean −104.7
Std Dev 0
pull1D
Entries 94
Mean −0.02155
Std Dev 0.3746

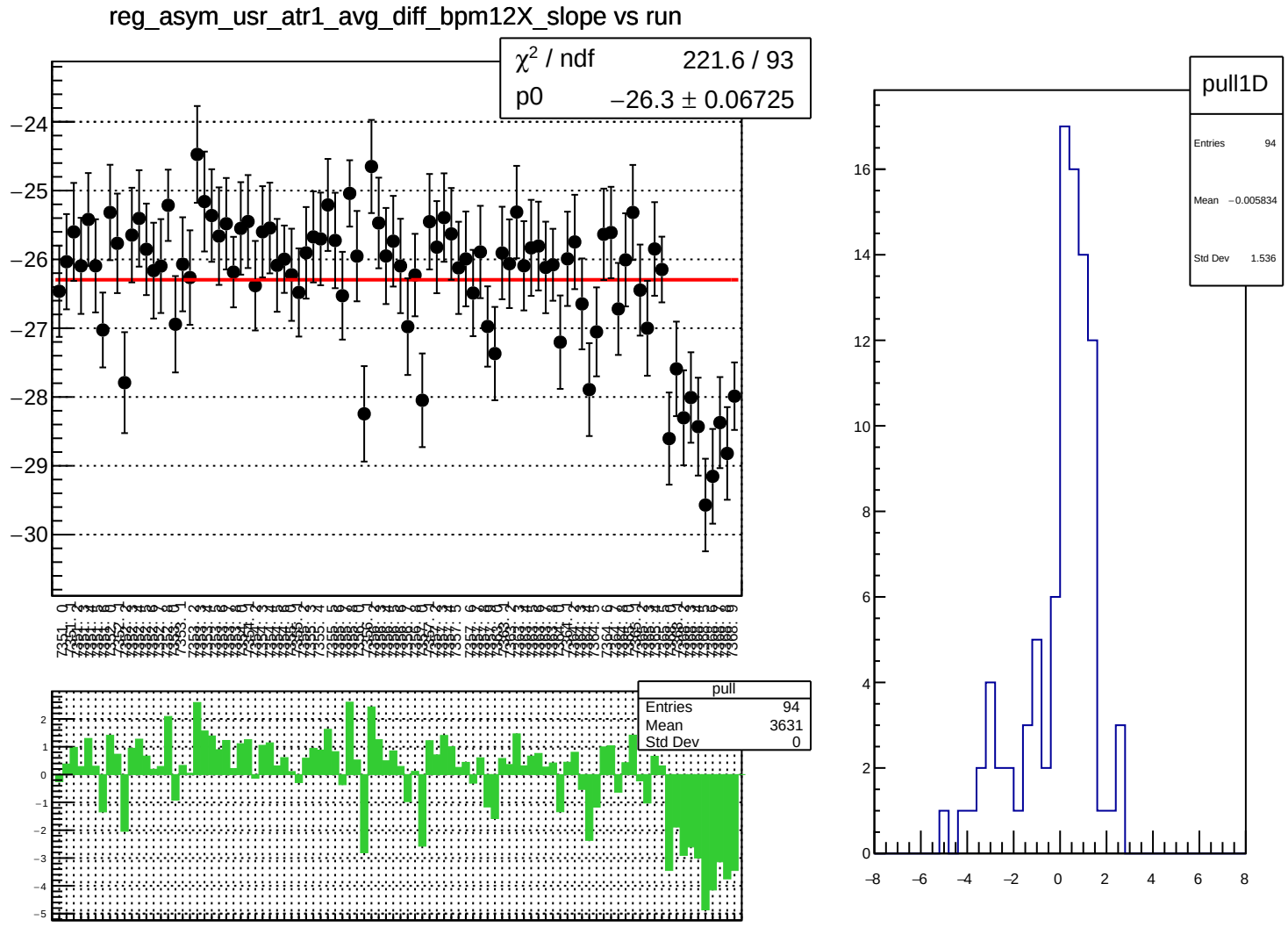

reg_asym_usl_atl2_dd_diff_bpm12X_slope vs run
χ² / ndf 157.3 / 93
p0 98.98 ± 0.1566
104
102
100
98
96
94
92
90
88
pull
Entries 94
Mean 1491
Std Dev 0
2
0
−2
−4
−6
−8
pull1D
Entries 94
Mean 0.009458
Std Dev 1.294
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

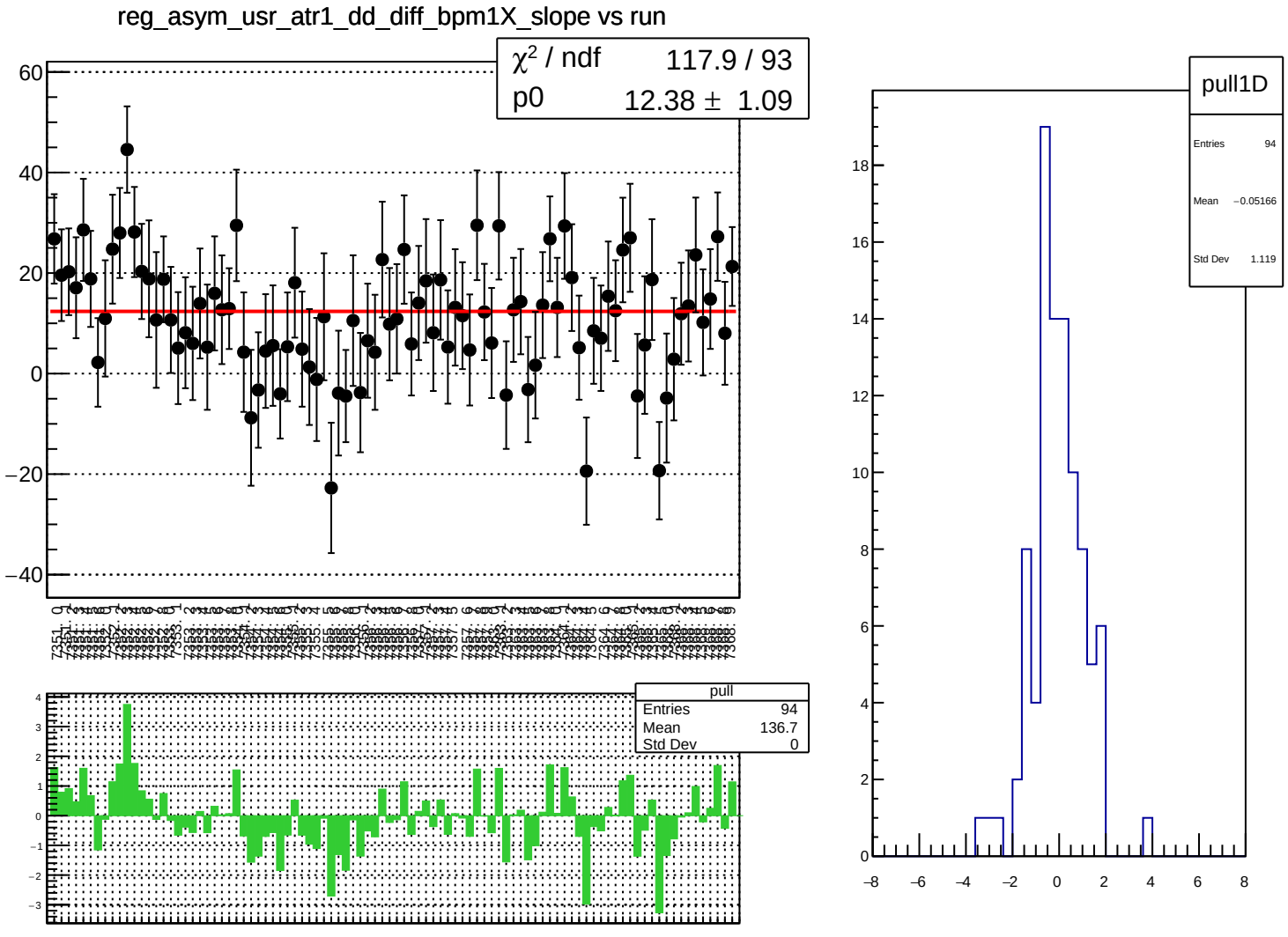

reg_asym_usr_atr1_avg_diff_bpm1X_slope vs run
χ² / ndf 84.53 / 93
p0 −34.56 ± 1.433
pull
Entries 94
Mean 199.4
Std Dev 0
pull1D
Entries 94
Mean −0.03028
Std Dev 0.9478

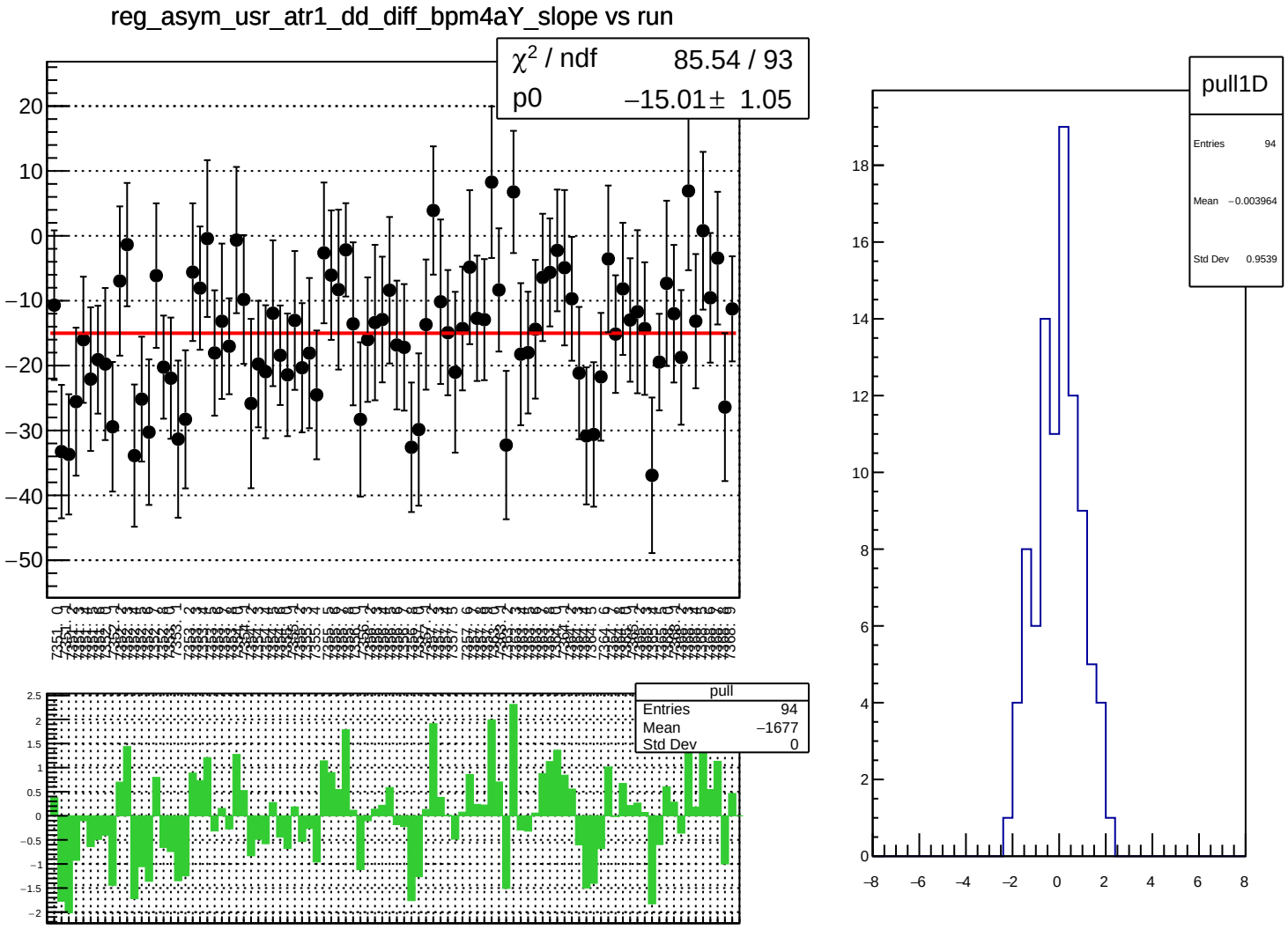

reg_asym_usr_atr1_avg_diff_bpm4aY_slope vs run
χ² / ndf 91.06 / 93
p0 −9.451 ± 1.376
pull
Entries 94
Mean 67.54
Std Dev 39.17
pull1D
Entries 94
Mean −0.03632
Std Dev 0.9835

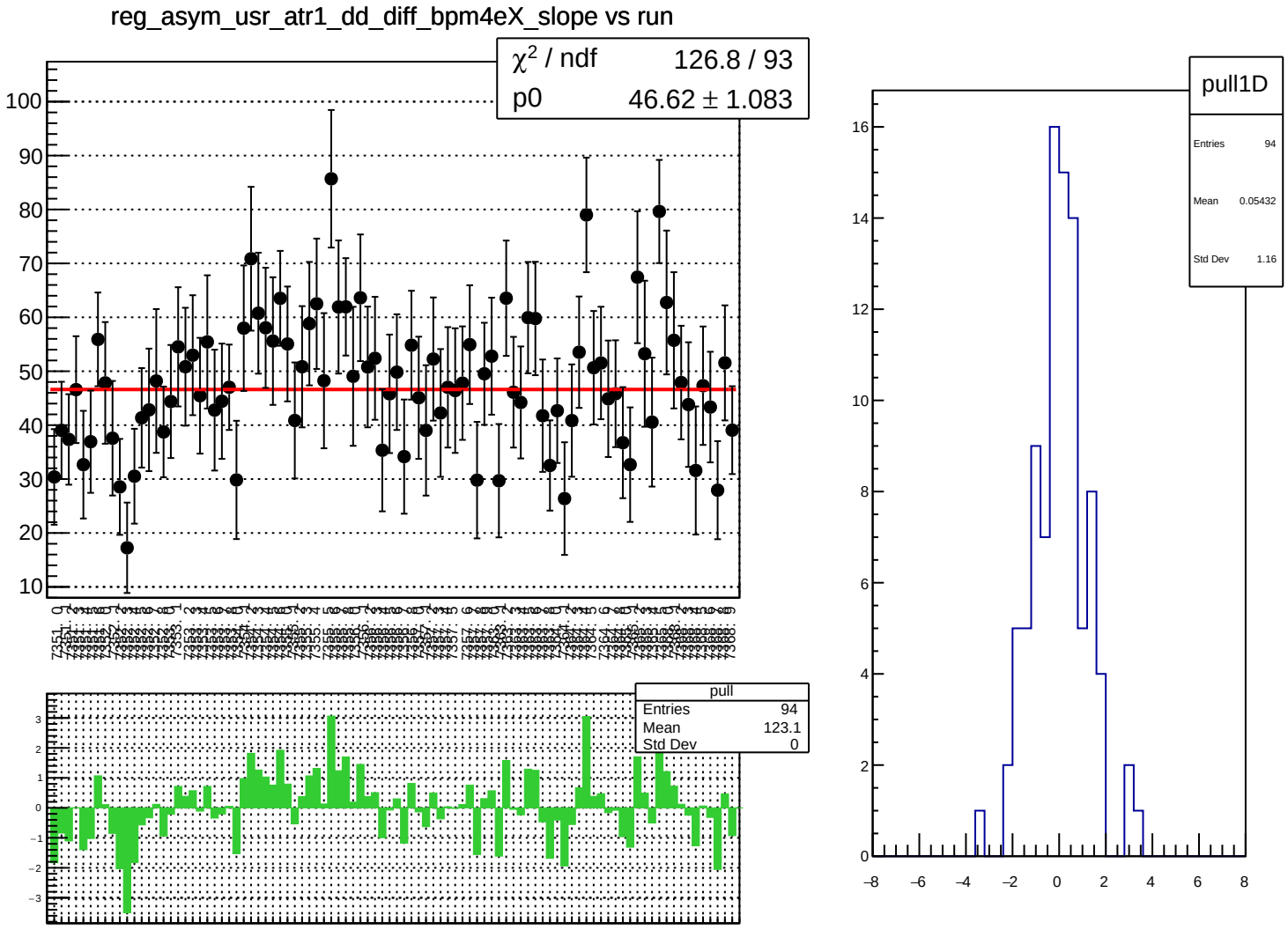

reg_asym_usr_atr1_avg_diff_bpm4eX_slope vs run
χ² / ndf 87.32 / 93
p0 34.07 ± 1.423
pull
Entries 94
Mean 202.6
Std Dev 0
pull1D
Entries 94
Mean 0.03239
Std Dev 0.9633

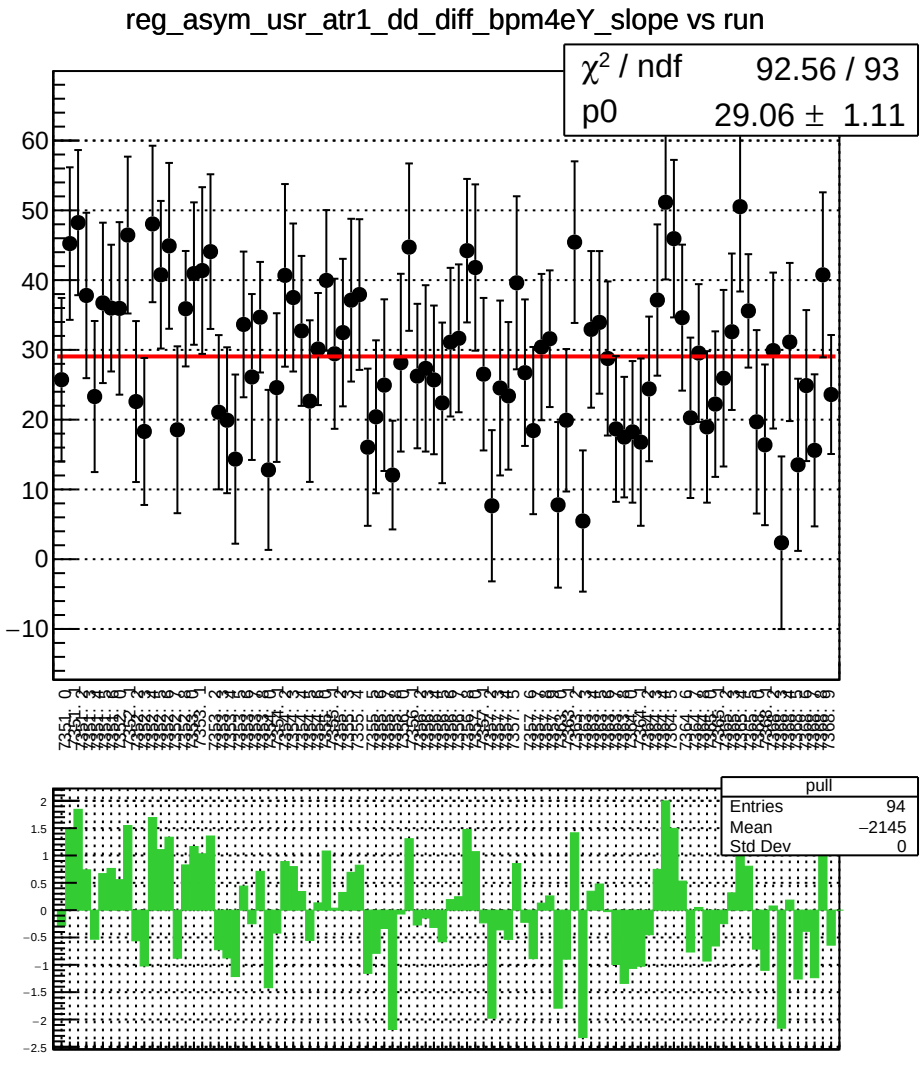

reg_asym_usr_atr1_avg_diff_bpm4eY_slope vs run
χ² / ndf 98.16 / 93
p0 14.42 ± 1.455
pull
Entries 94
Mean −22.23
Std Dev 0
pull1D
Entries 94
Mean 0.02539
Std Dev 1.022

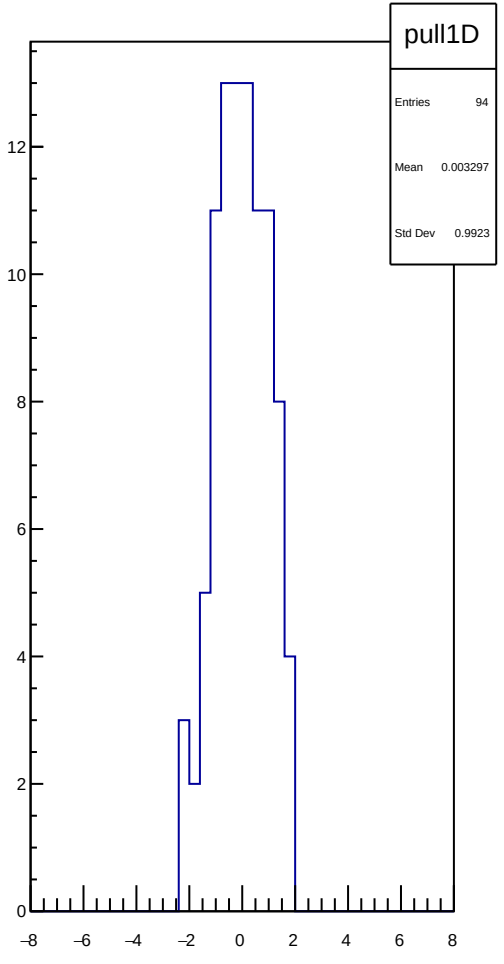

reg_asym_usr_atr1_avg_diff_bpm12X_slope vs run
χ² / ndf 221.6 / 93
p0 −26.3 ± 0.06725
pull
Entries 94
Mean 3631
Std Dev 0
pull1D
Entries 94
Mean −0.005834
Std Dev 1.536

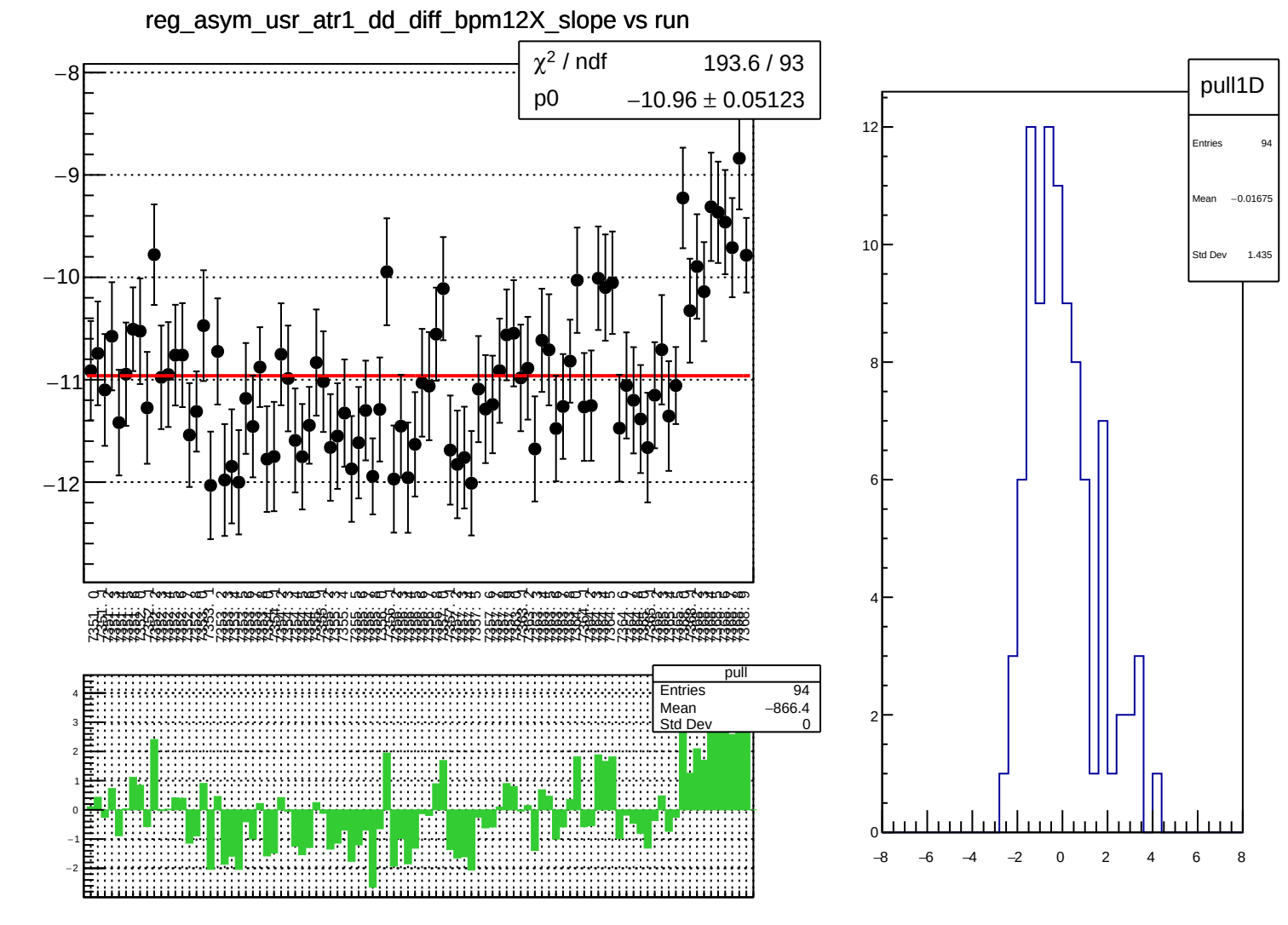

reg_asym_usr_atr1_dd_diff_bpm1X_slope vs run
χ² / ndf 117.9 / 93
p0 12.38 ± 1.09
pull
Entries 94
Mean 136.7
Std Dev 0
pull1D
Entries 94
Mean −0.05166
Std Dev 1.119

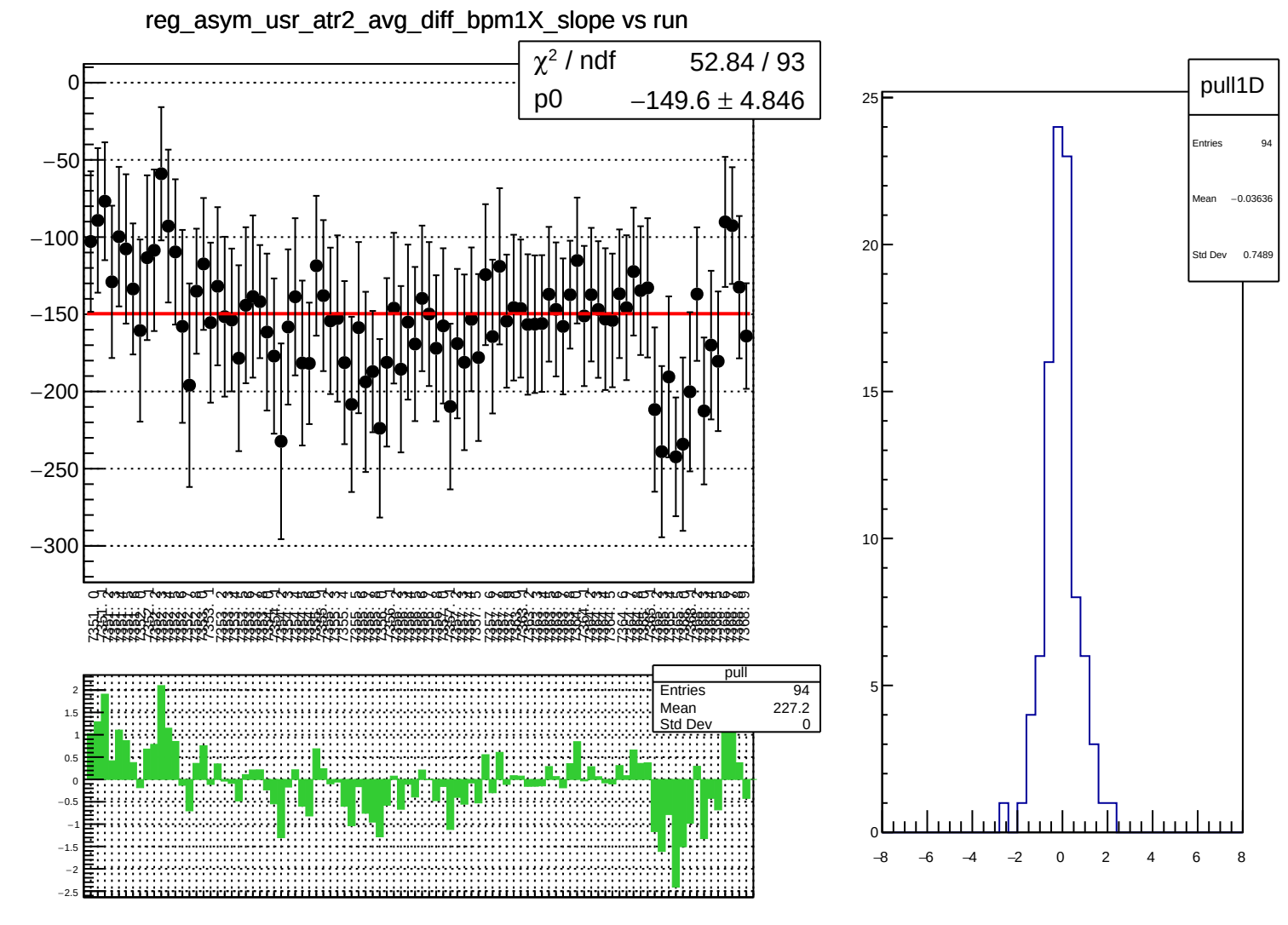

reg_asym_usr_atr1_dd_diff_bpm4aY_slope vs run
χ² / ndf 85.54 / 93
p0 −15.01± 1.05
pull
Entries 94
Mean −1677
Std Dev 0
pull1D
Entries 94
Mean −0.003964
Std Dev 0.9539

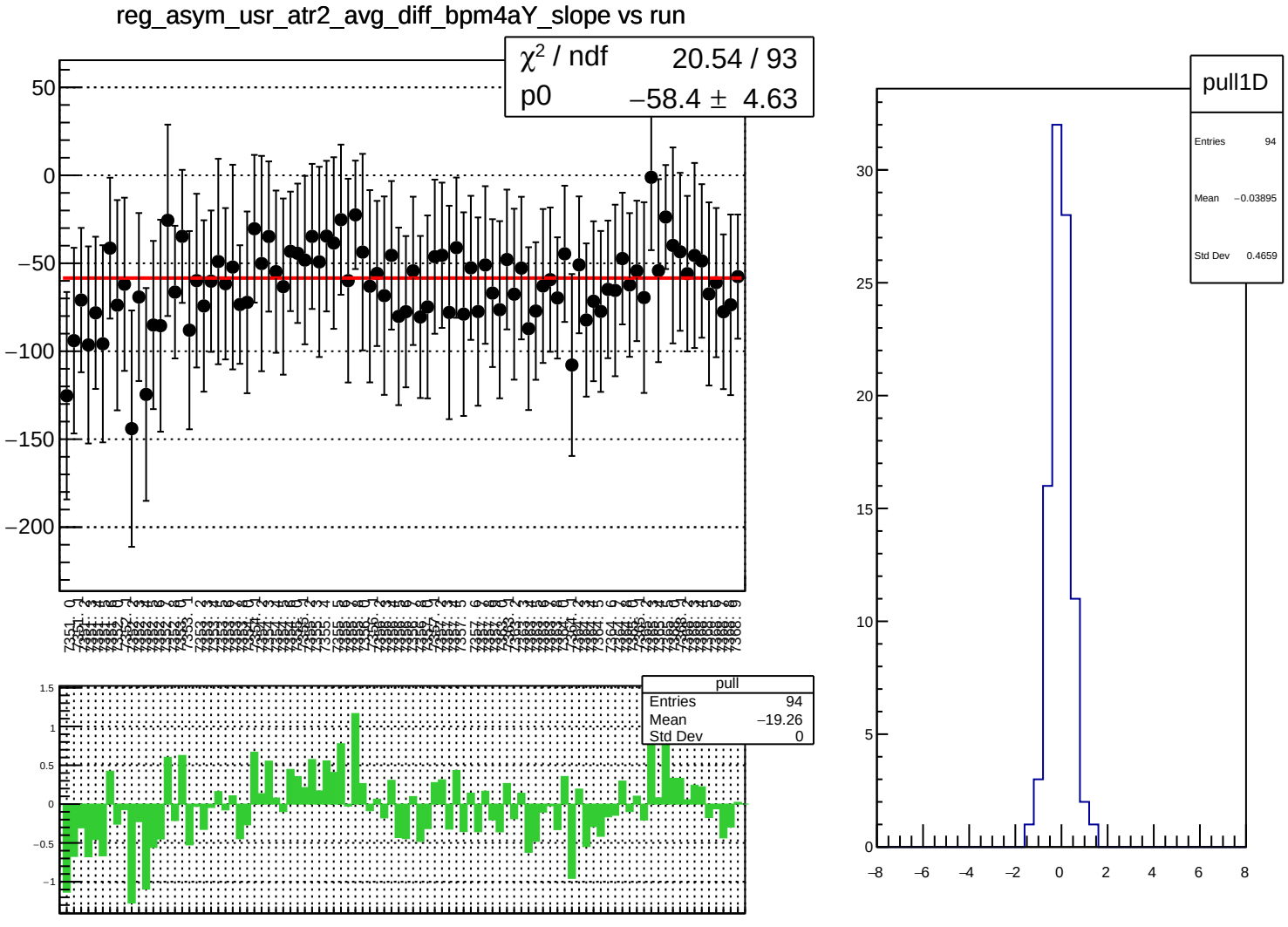

reg_asym_usr_atr1_dd_diff_bpm4eX_slope vs run
χ² / ndf 126.8 / 93
p0 46.62 ± 1.083
pull
Entries 94
Mean 123.1
Std Dev 0
pull1D
Entries 94
Mean 0.05432
Std Dev 1.16

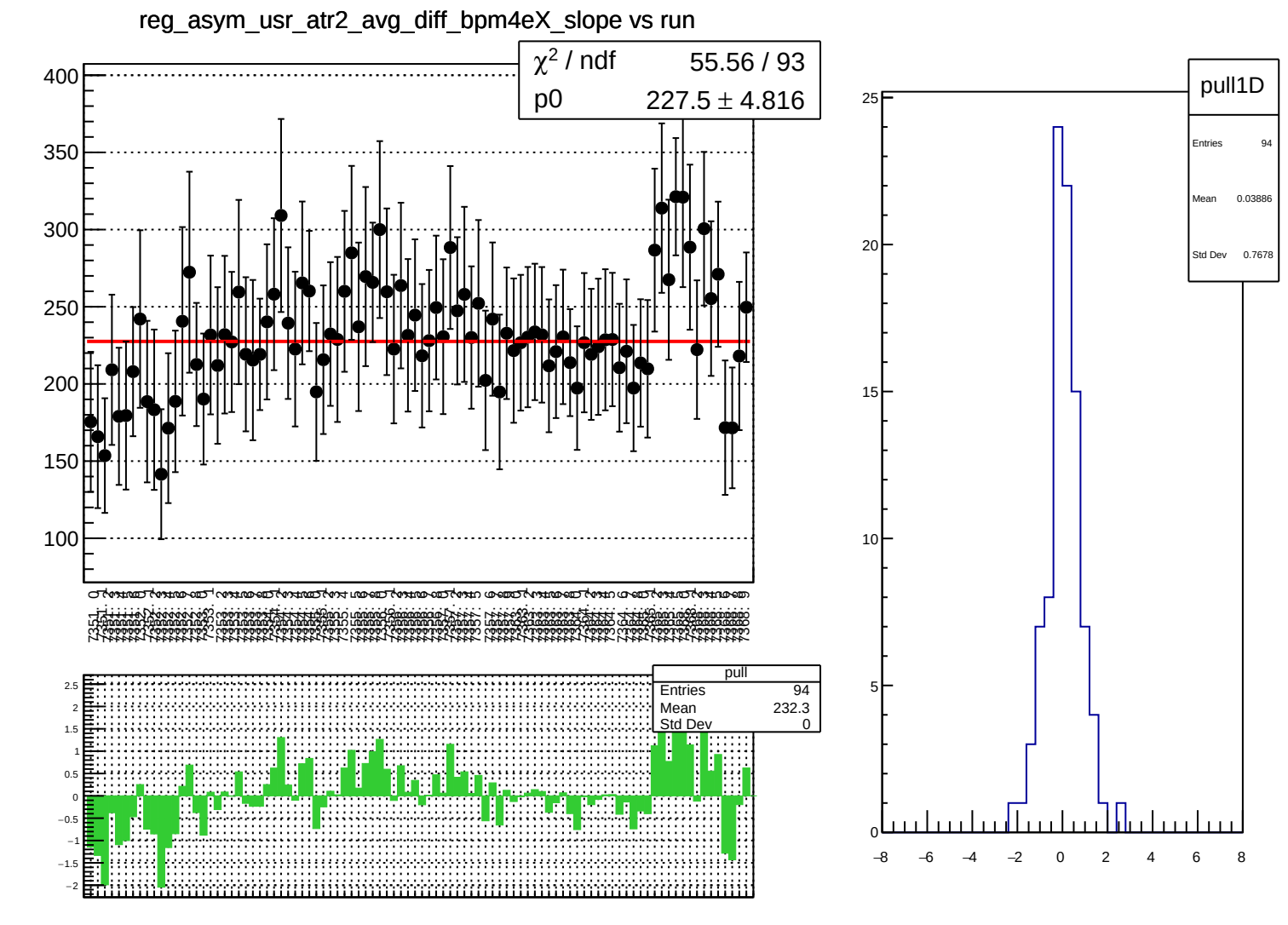

reg_asym_usr_atr1_dd_diff_bpm4eY_slope vs run
χ² / ndf 92.56 / 93
p0 29.06 ± 1.11
pull
Entries 94
Mean −2145
Std Dev 0

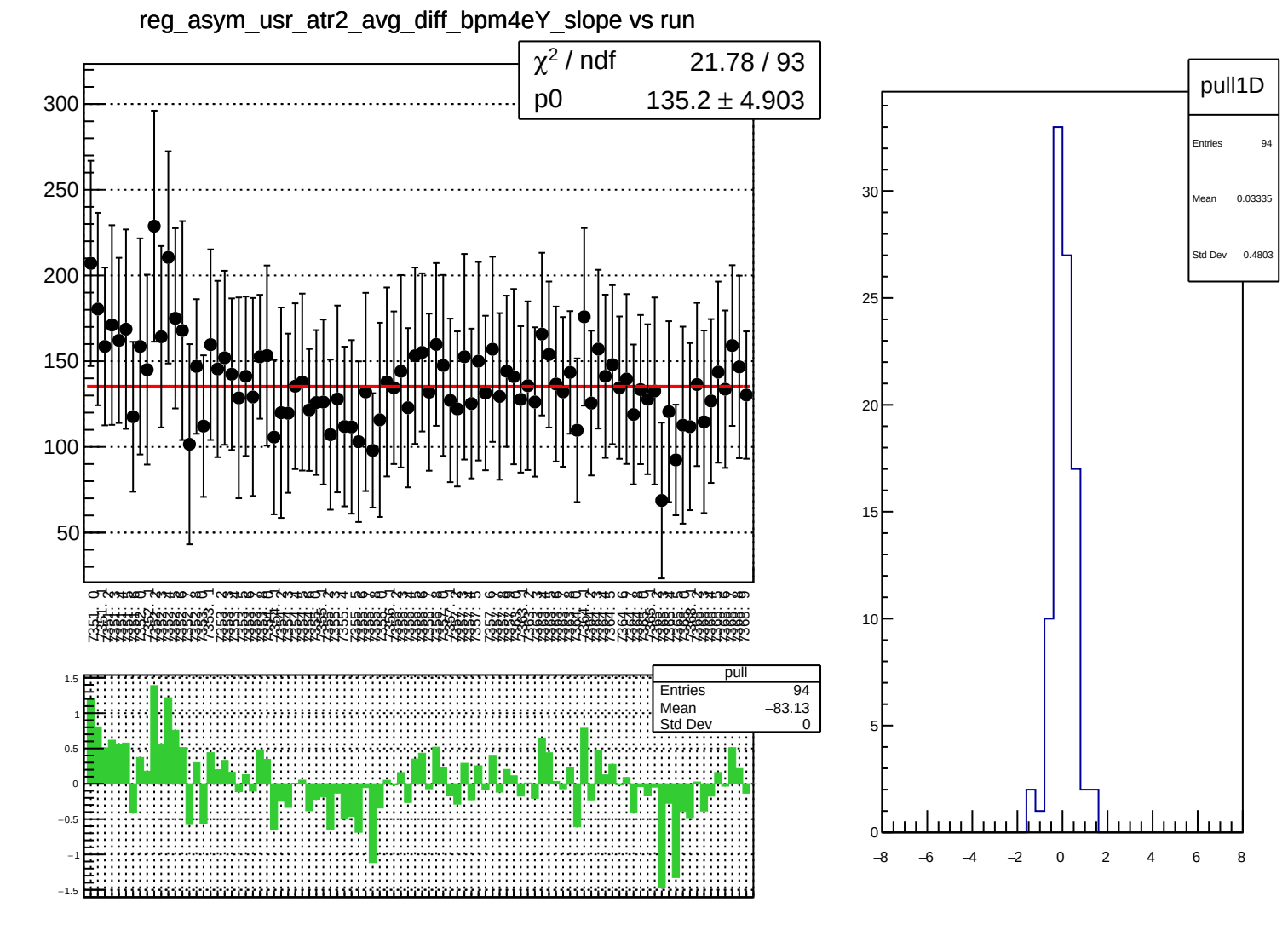

pull1D
Entries 94
Mean 0.003297
Std Dev 0.9923

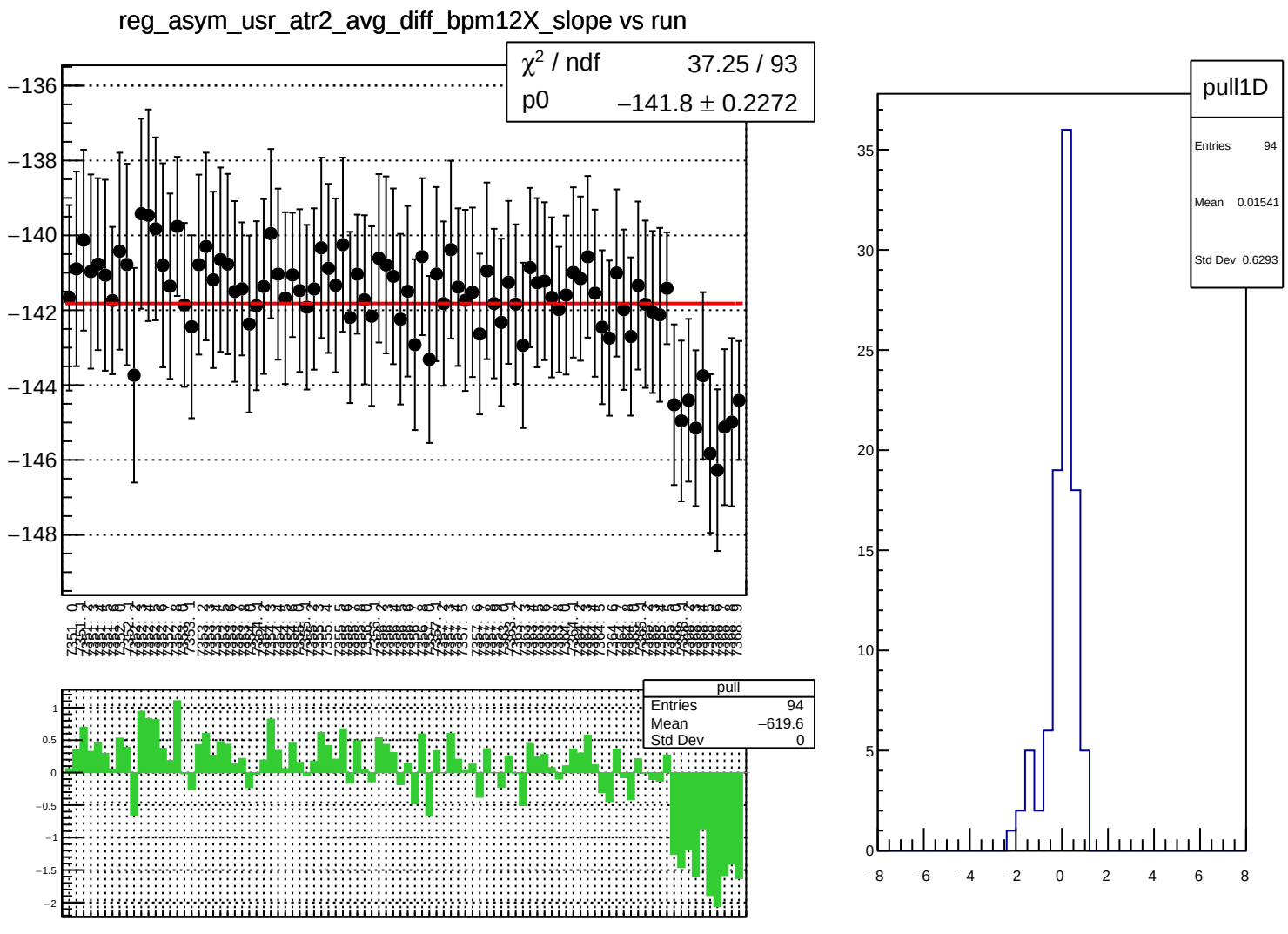

reg_asym_usr_atr1_dd_diff_bpm12X_slope vs run
χ² / ndf 193.6 / 93
p0 −10.96 ± 0.05123
pull
Entries 94
Mean −866.4
Std Dev 0
pull1D
Entries 94
Mean −0.01675
Std Dev 1.435

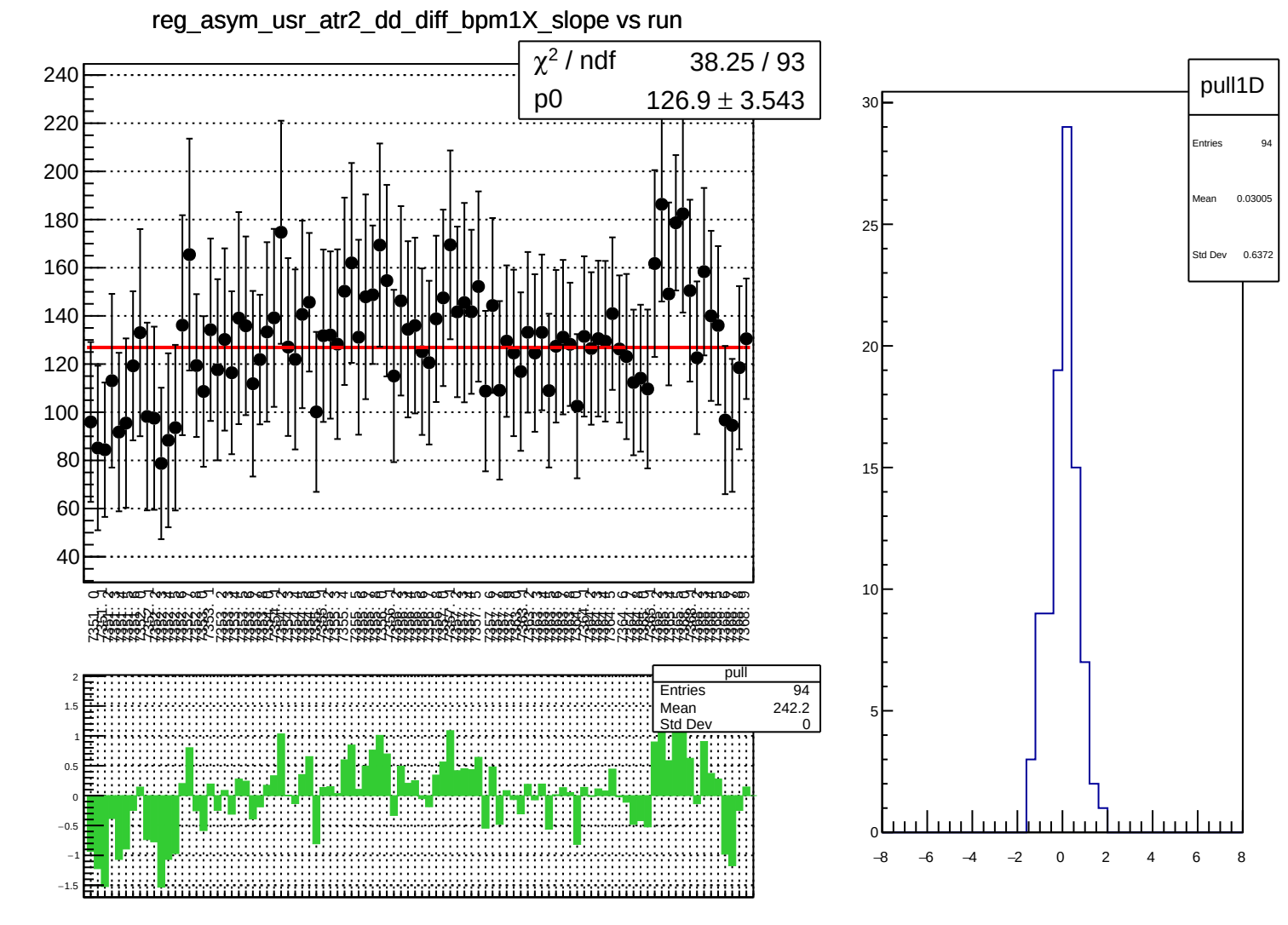

reg_asym_usr_atr2_avg_diff_bpm1X_slope vs run
χ² / ndf 52.84 / 93
p0 −149.6 ± 4.846
pull
Entries 94
Mean 227.2
Std Dev 0
pull1D
Entries 94
Mean −0.03636
Std Dev 0.7489

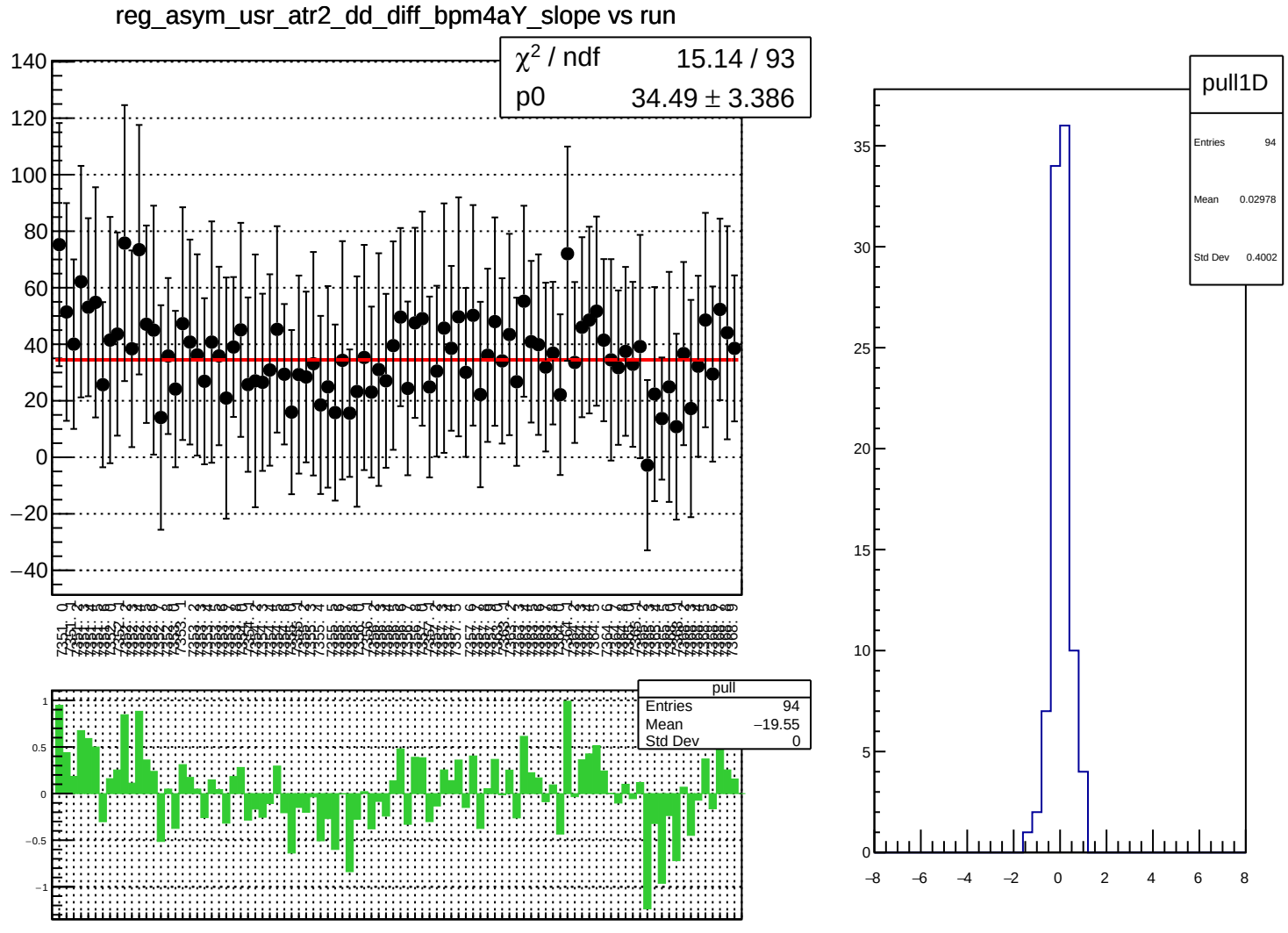

reg_asym_usr_atr2_avg_diff_bpm4aY_slope vs run
χ² / ndf 20.54 / 93
p0 −58.4 ± 4.63
50
0
−50
−100
−150
−200
pull
Entries 94
Mean −19.26
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 94
Mean −0.03895
Std Dev 0.4659
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

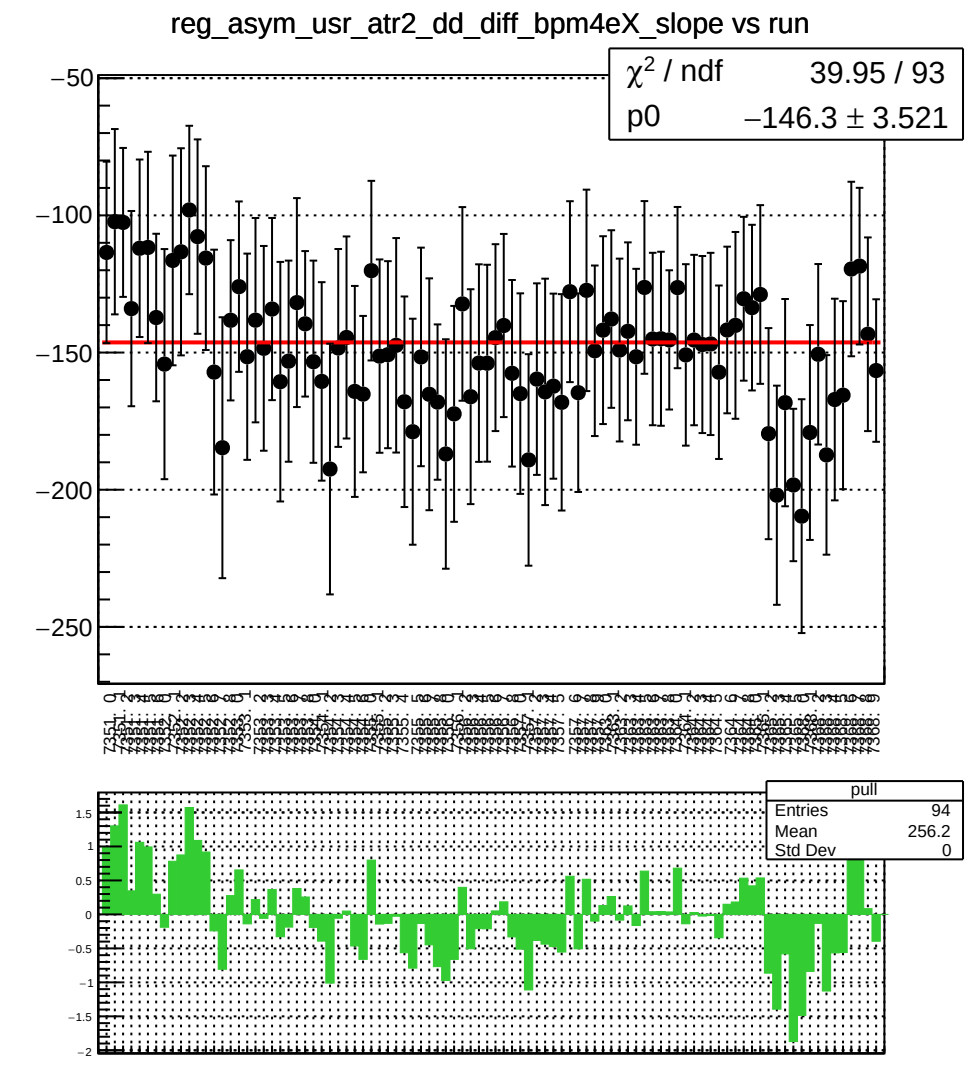

reg_asym_usr_atr2_avg_diff_bpm4eX_slope vs run
χ² / ndf 55.56 / 93
p0 227.5 ± 4.816
pull
Entries 94
Mean 232.3
Std Dev 0
pull1D
Entries 94
Mean 0.03886
Std Dev 0.7678

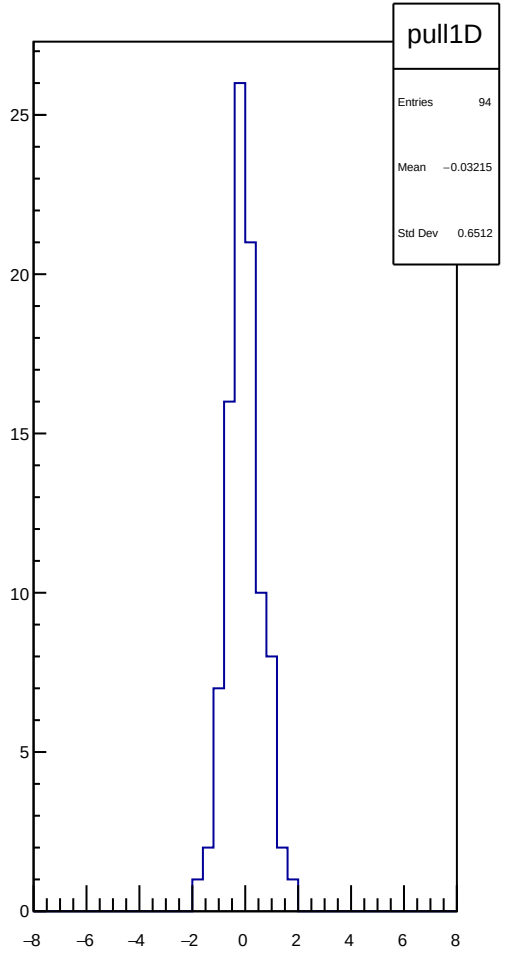

reg_asym_usr_atr2_avg_diff_bpm4eY_slope vs run
χ² / ndf 21.78 / 93
p0 135.2 ± 4.903
300
250
200
150
100
50
pull
Entries 94
Mean −83.13
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 94
Mean 0.03335
Std Dev 0.4803
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

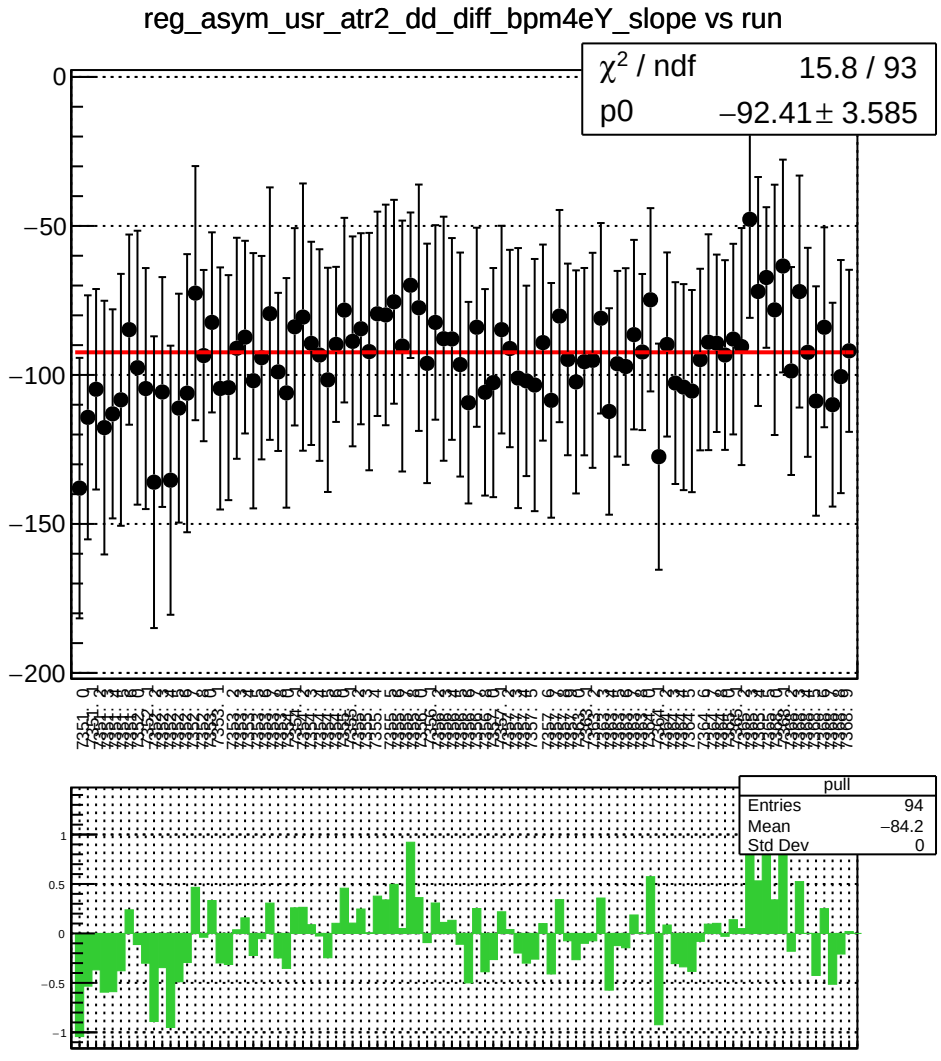

reg_asym_usr_atr2_avg_diff_bpm12X_slope vs run
χ² / ndf 37.25 / 93
p0 −141.8 ± 0.2272
−136
−138
−140
−142
−144
−146
−148
pull
Entries 94
Mean −619.6
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean 0.01541
Std Dev 0.6293
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

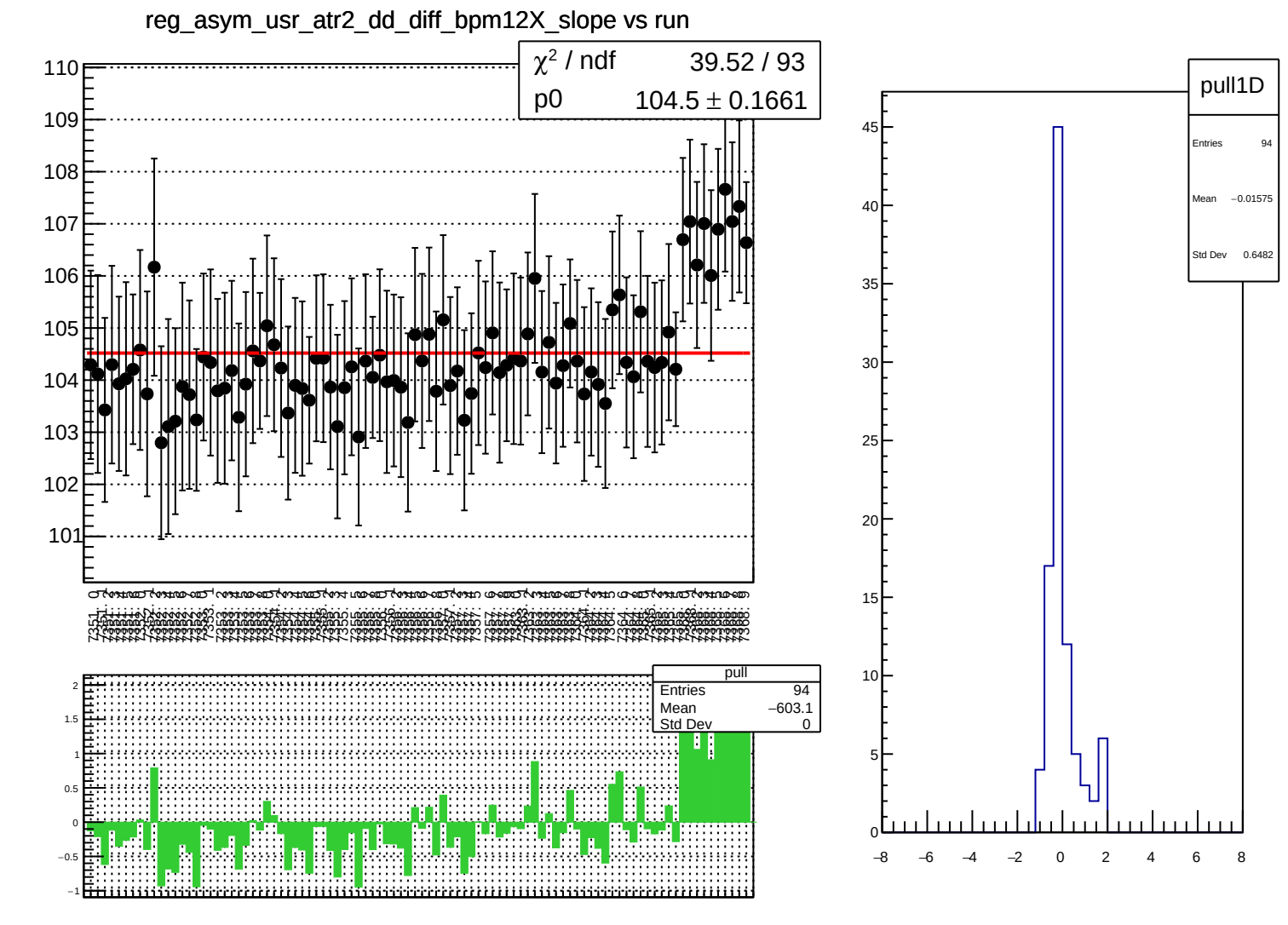

reg_asym_usr_atr2_dd_diff_bpm1X_slope vs run
χ² / ndf 38.25 / 93
p0 126.9 ± 3.543
pull
Entries 94
Mean 242.2
Std Dev 0
pull1D
Entries 94
Mean 0.03005
Std Dev 0.6372

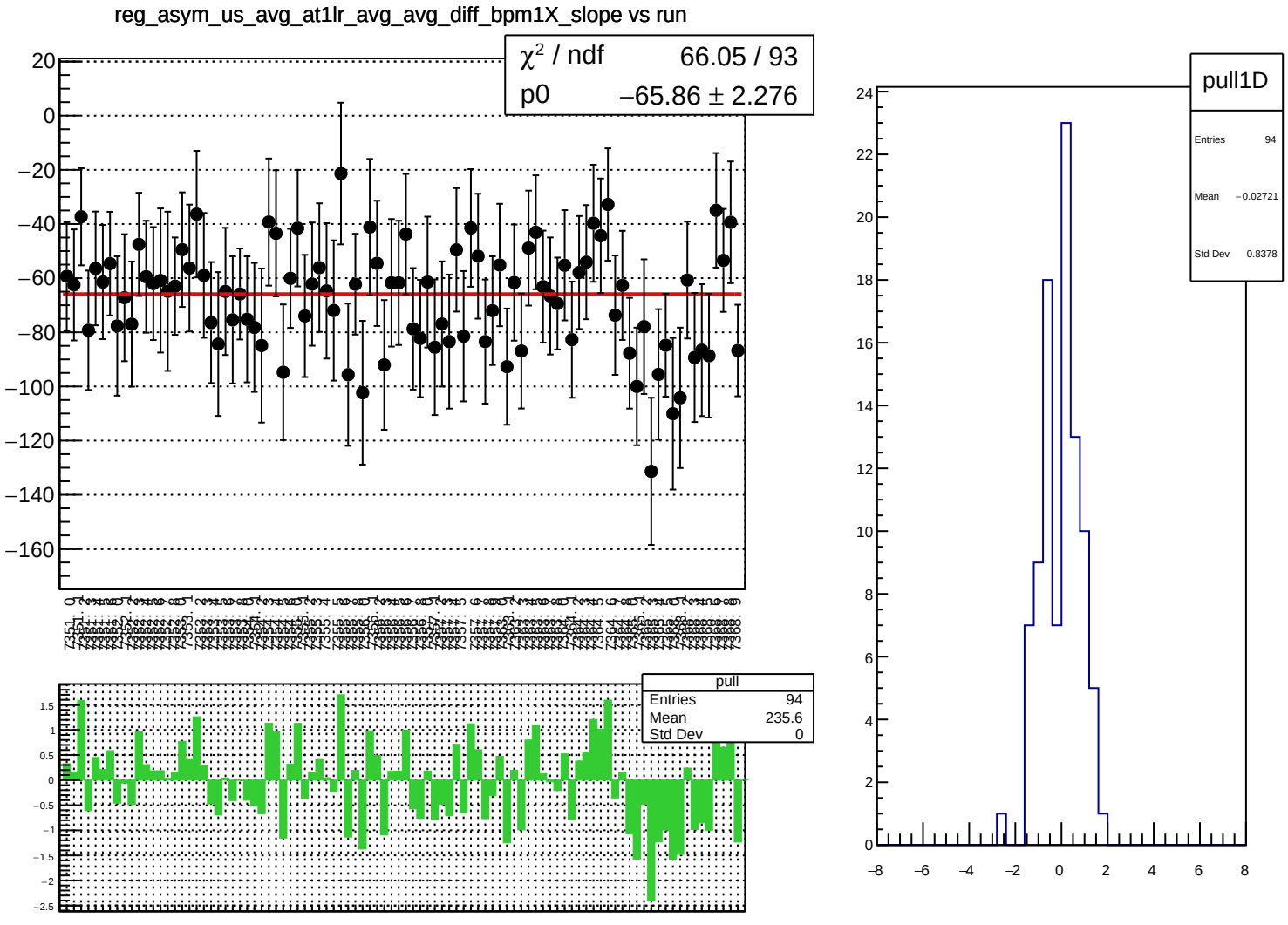

reg_asym_usr_atr2_dd_diff_bpm4aY_slope vs run
χ² / ndf 15.14 / 93
p0 34.49 ± 3.386
pull
Entries 94
Mean −19.55
Std Dev 0
pull1D
Entries 94
Mean 0.02978
Std Dev 0.4002

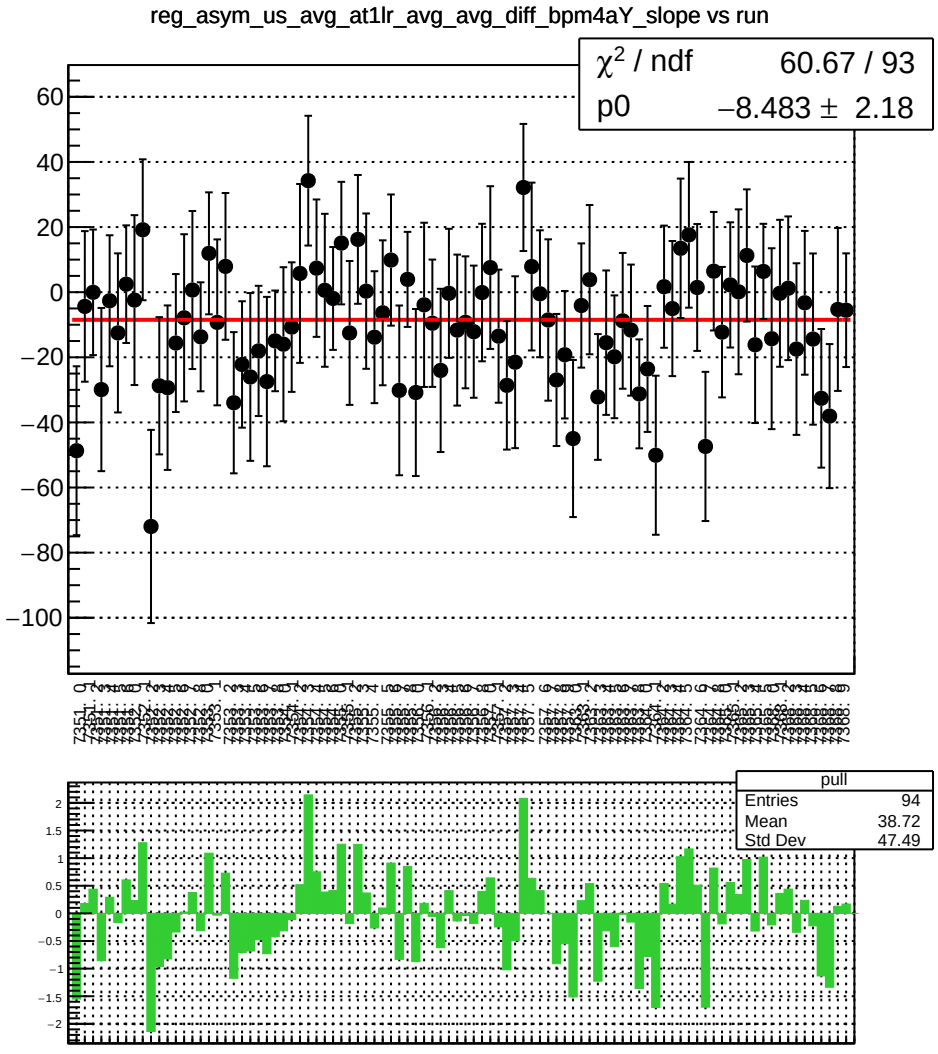

reg_asym_usr_atr2_dd_diff_bpm4eX_slope vs run
χ² / ndf 39.95 / 93
p0 −146.3 ± 3.521
−50
−100
−150
−200
−250
pull
Entries 94
Mean 256.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

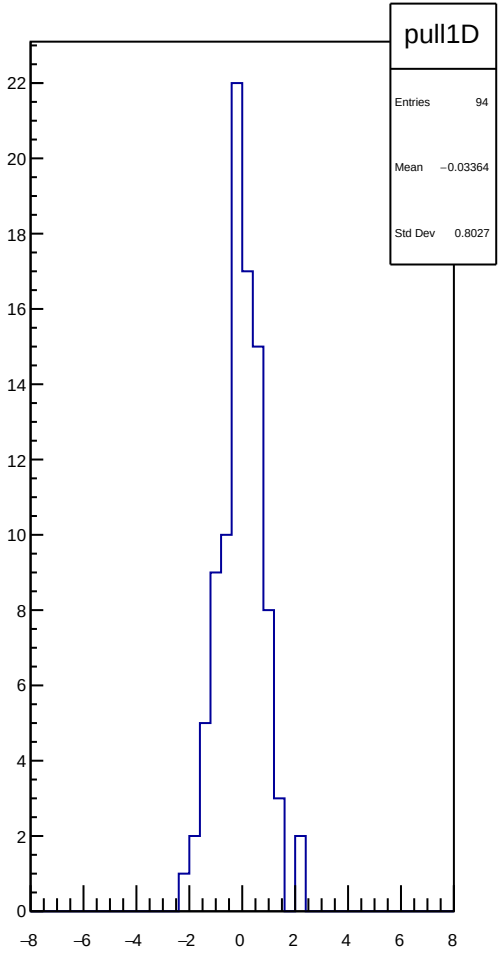

pull1D
Entries 94
Mean −0.03215
Std Dev 0.6512
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

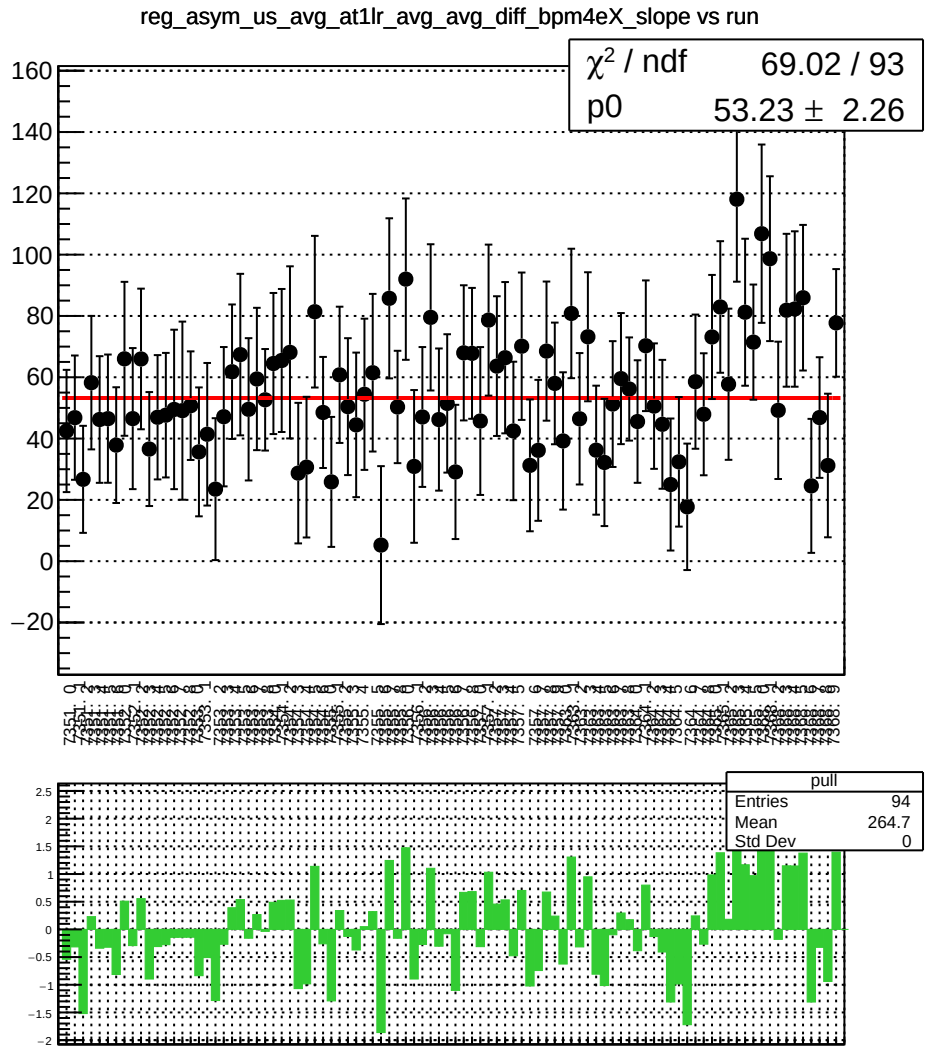

reg_asym_usr_atr2_dd_diff_bpm4eY_slope vs run
χ² / ndf 15.8 / 93
p0 −92.41 ± 3.585
pull
Entries 94
Mean −84.2
Std Dev 0
pull1D
Entries 94
Mean −0.02506
Std Dev 0.4092

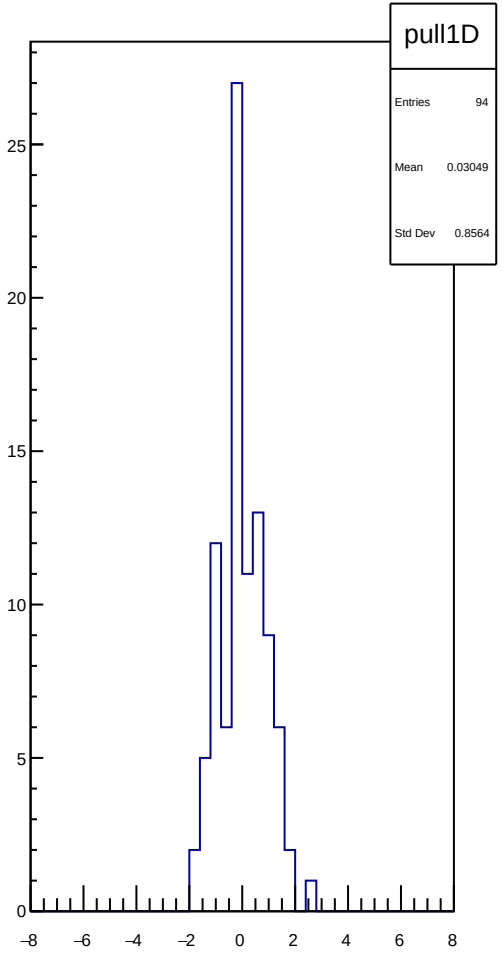

reg_asym_usr_atr2_dd_diff_bpm12X_slope vs run
χ² / ndf 39.52 / 93
p0 104.5 ± 0.1661
pull
Entries 94
Mean −603.1
Std Dev 0
pull1D
Entries 94
Mean −0.01575
Std Dev 0.6482

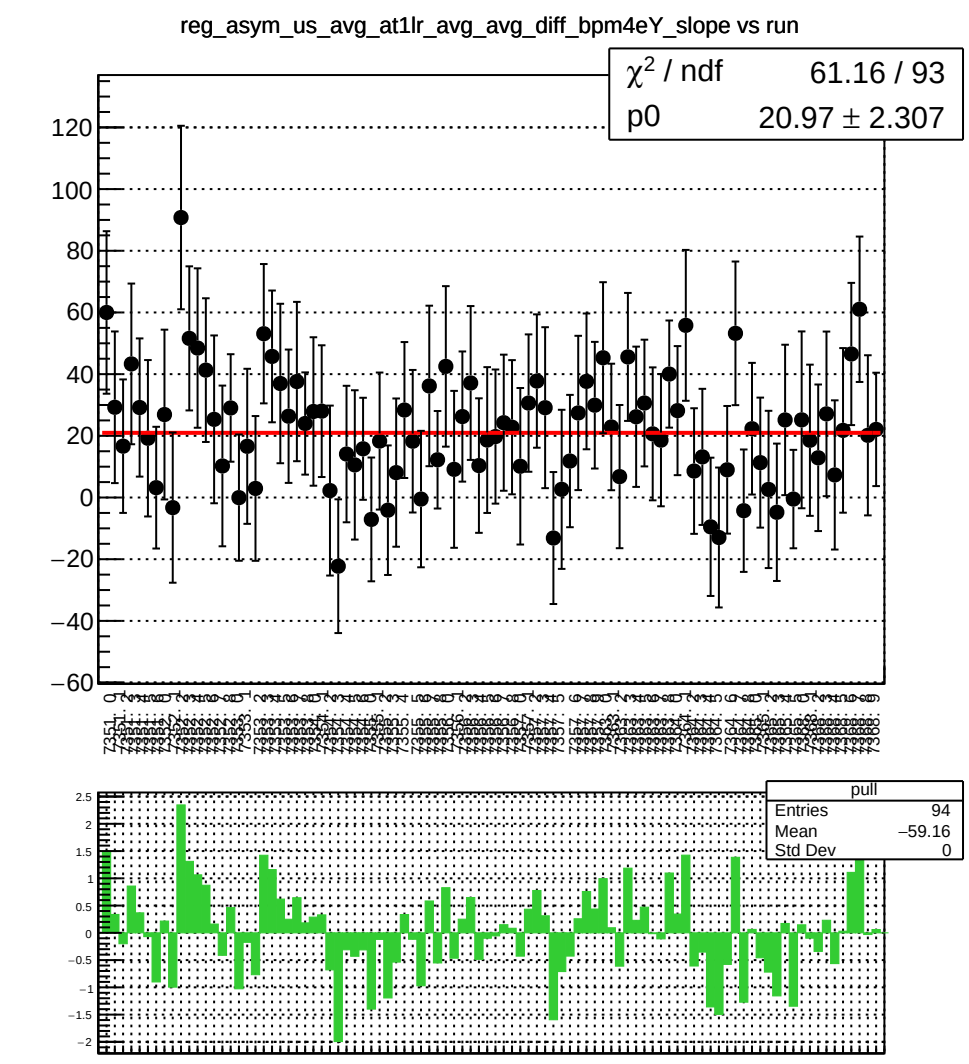

reg_asym_us_avg_at1lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 66.05 / 93
p0 −65.86 ± 2.276
pull
Entries 94
Mean 235.6
Std Dev 0
pull1D
Entries 94
Mean −0.02721
Std Dev 0.8378

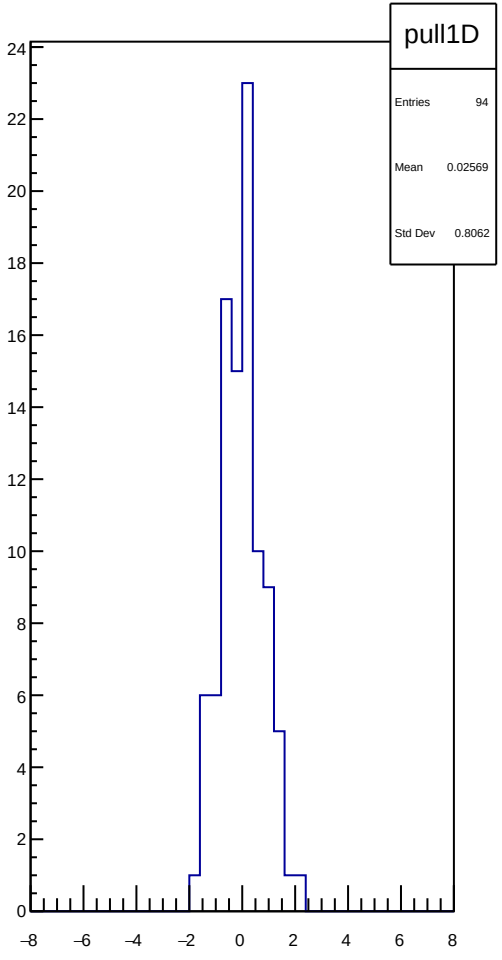

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 60.67 / 93
p0 −8.483 ± 2.18
pull
Entries 94
Mean 38.72
Std Dev 47.49

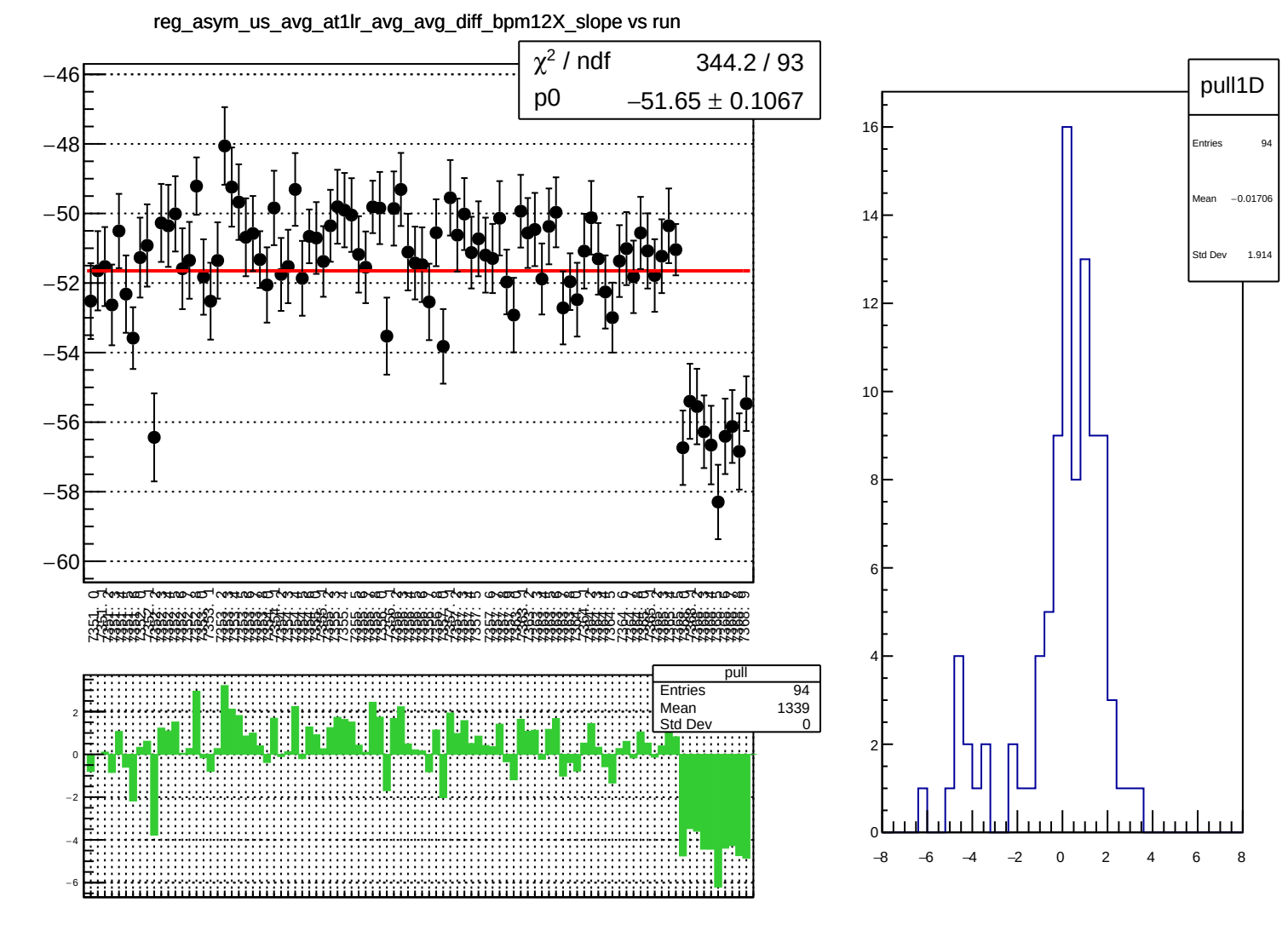

pull1D
Entries 94
Mean −0.03364
Std Dev 0.8027

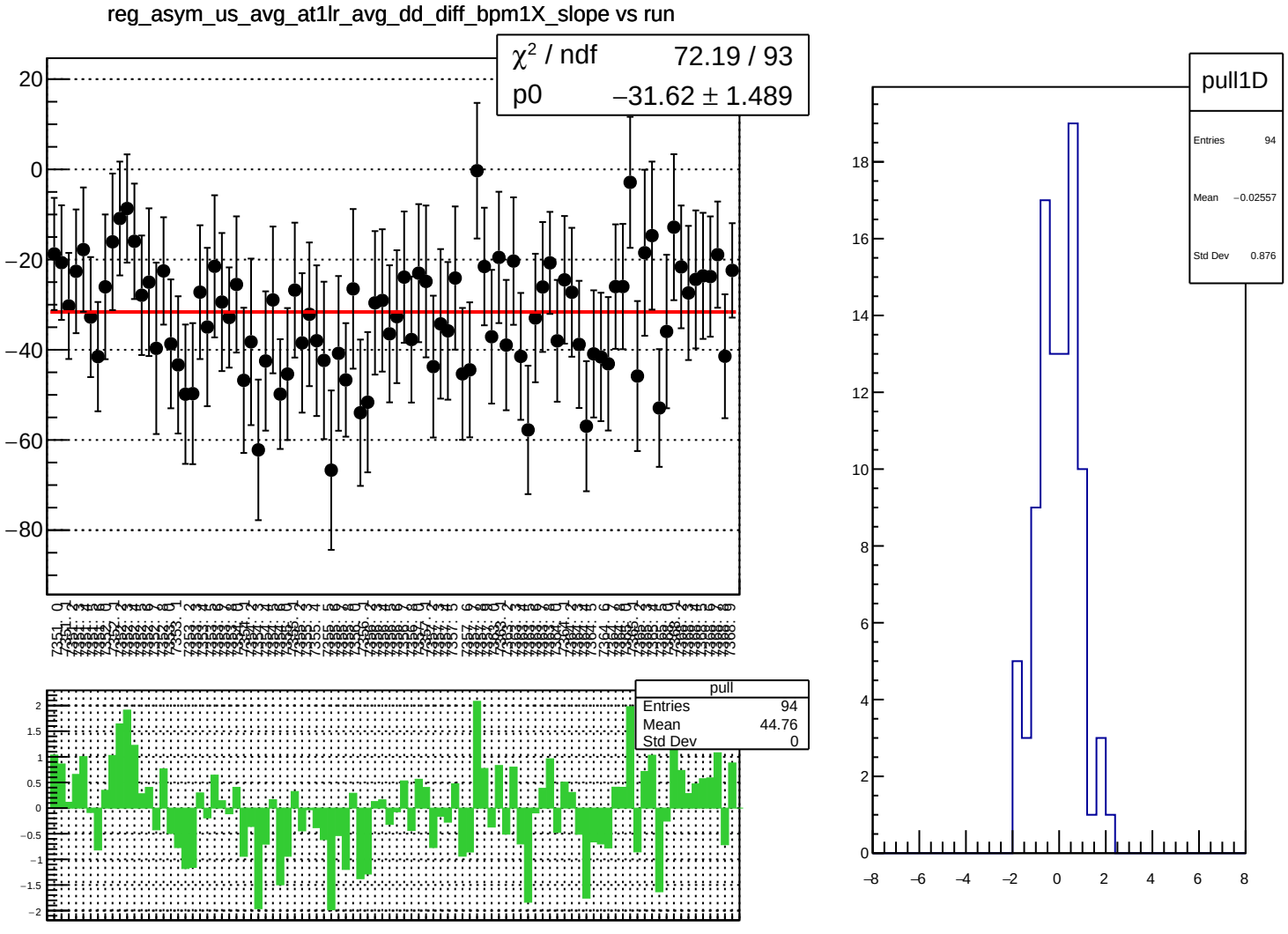

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 69.02 / 93
p0 53.23 ± 2.26
pull
Entries 94
Mean 264.7
Std Dev 0

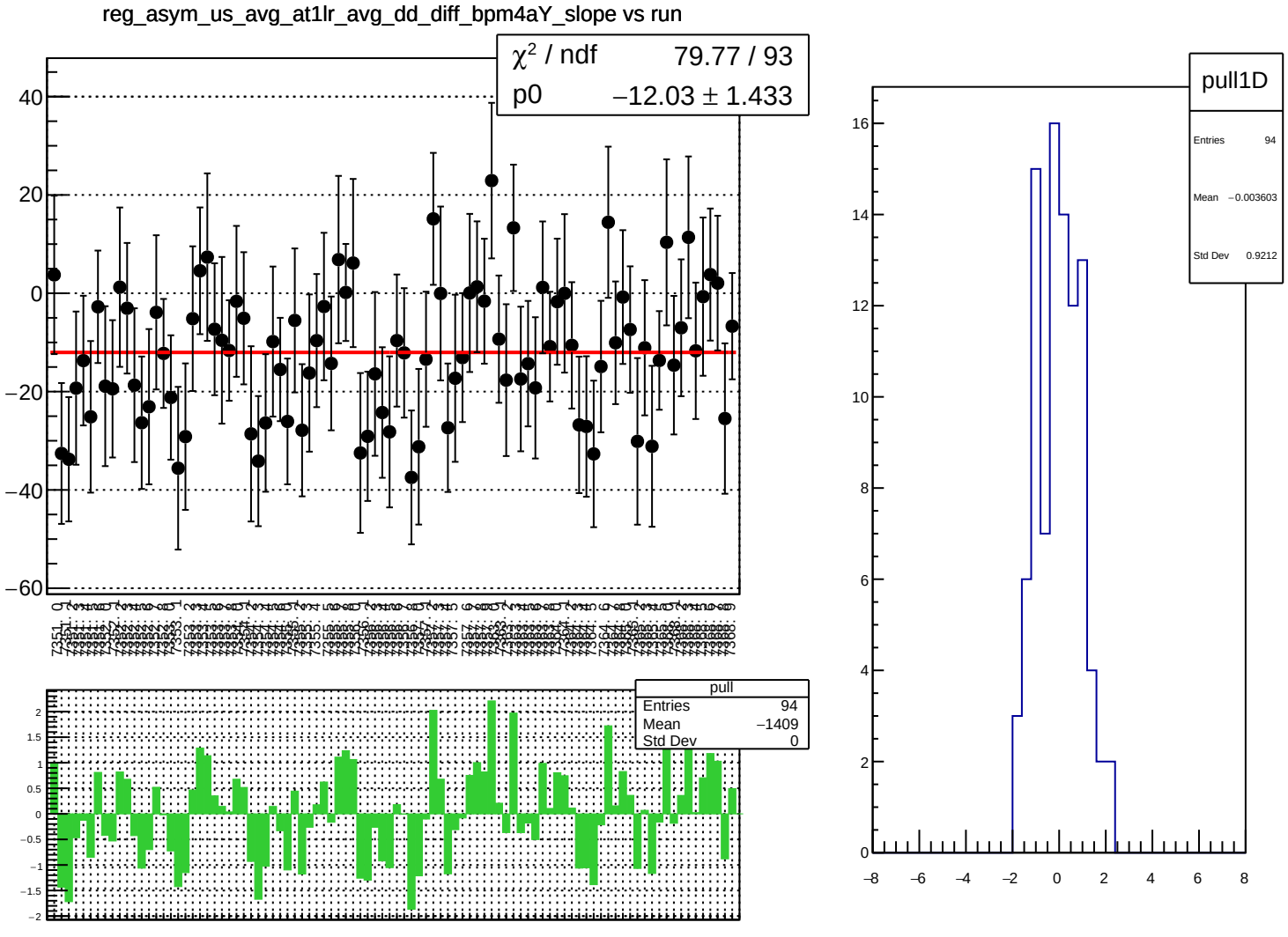

pull1D
Entries 94
Mean 0.03049
Std Dev 0.8564

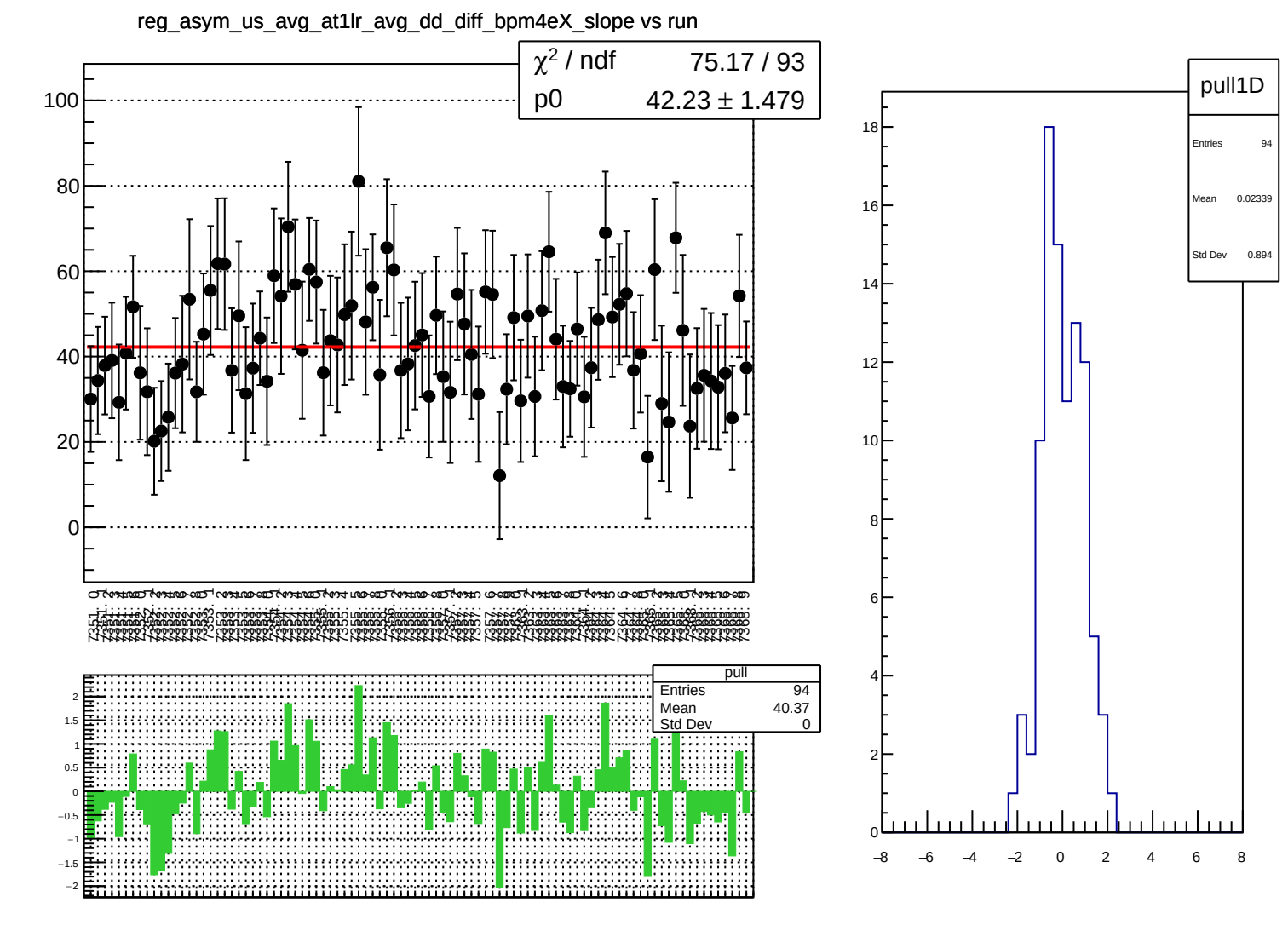

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 61.16 / 93
p0 20.97 ± 2.307
pull
Entries 94
Mean −59.16
Std Dev 0

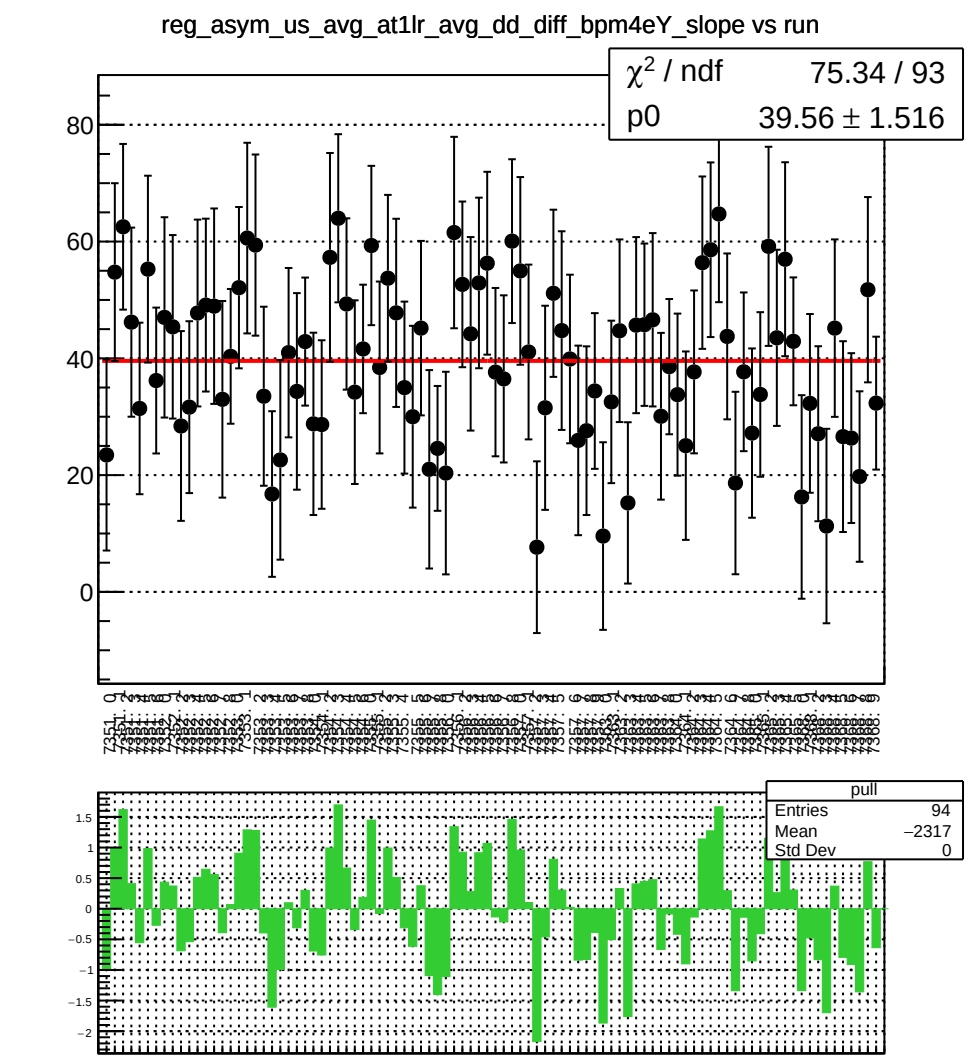

pull1D
Entries 94
Mean 0.02569
Std Dev 0.8062

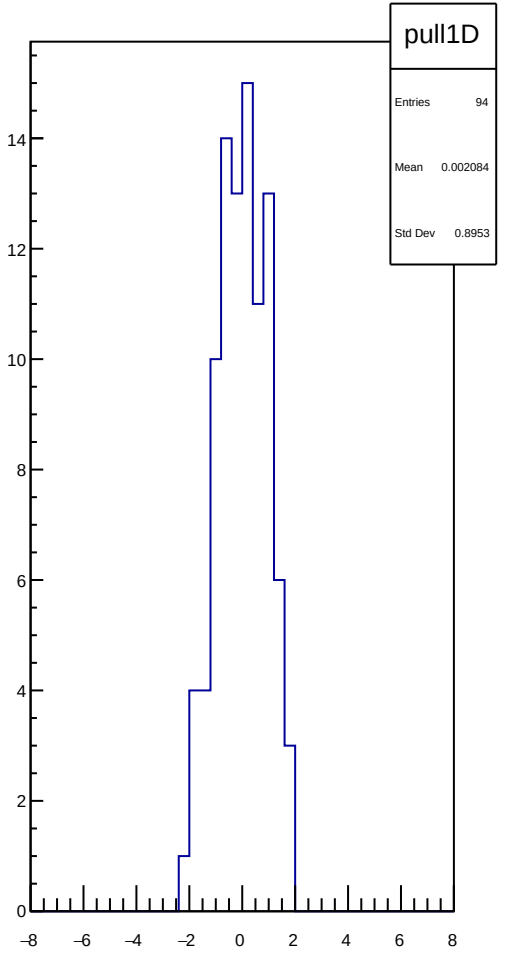

reg_asym_us_avg_at1lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 344.2 / 93
p0 −51.65 ± 0.1067
pull
Entries 94
Mean 1339
Std Dev 0
pull1D
Entries 94
Mean −0.01706
Std Dev 1.914

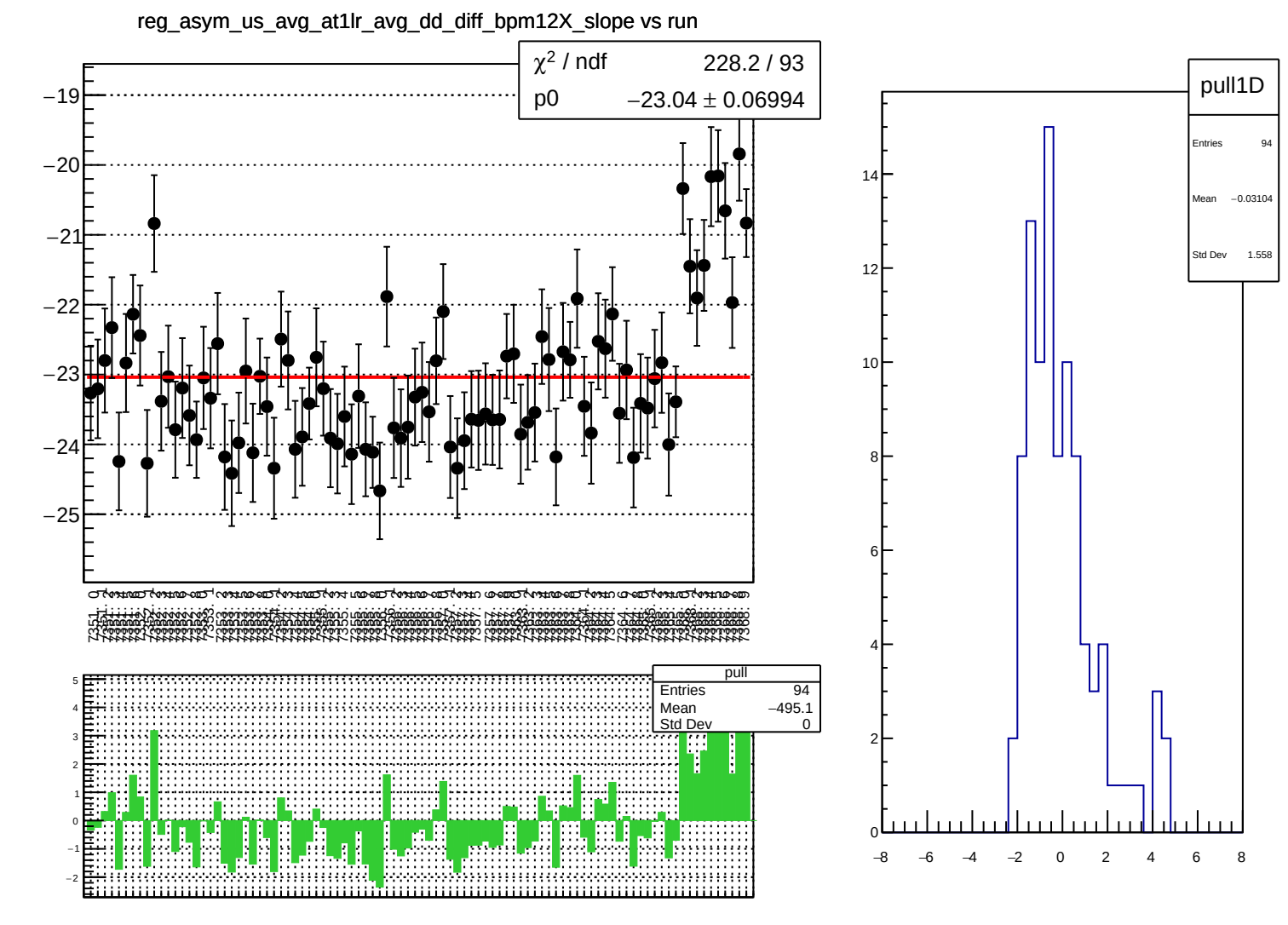

reg_asym_us_avg_at1lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 72.19 / 93
p0 −31.62 ± 1.489
pull
Entries 94
Mean 44.76
Std Dev 0
pull1D
Entries 94
Mean −0.02557
Std Dev 0.876

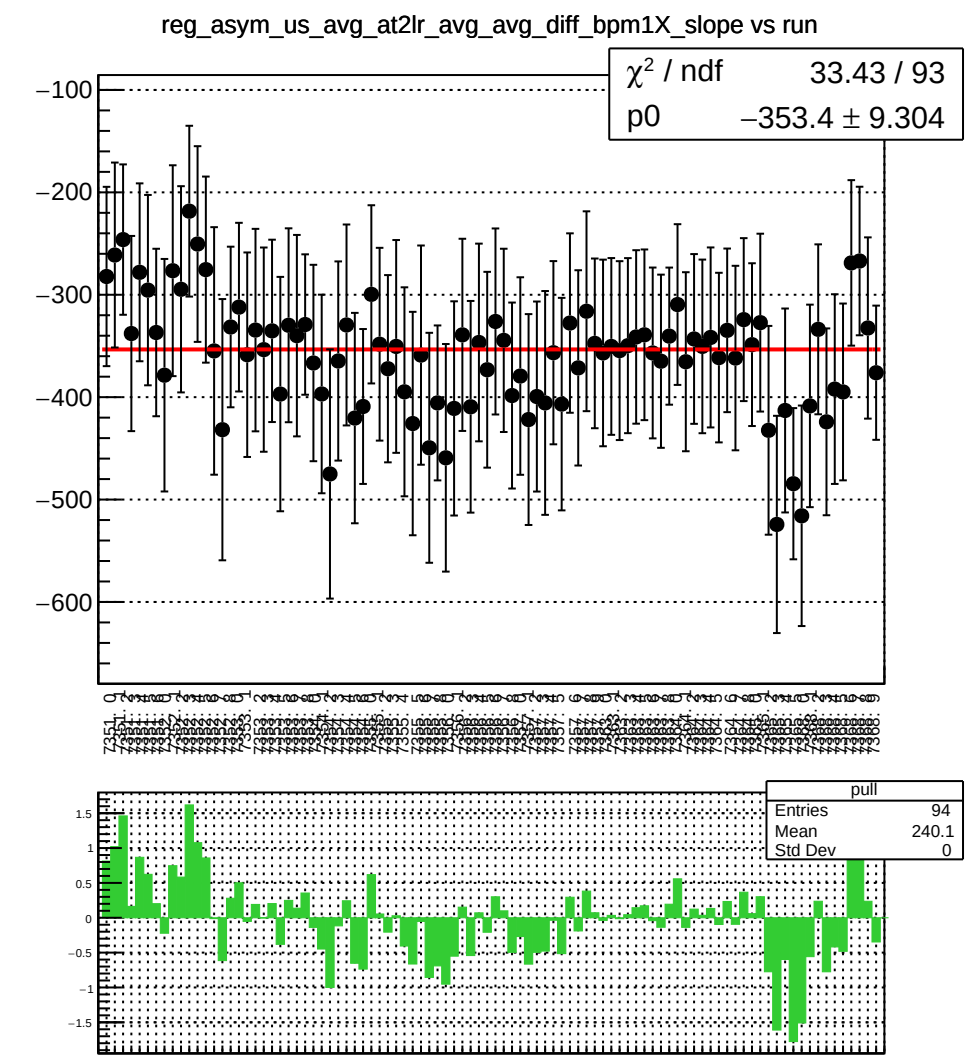

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 79.77 / 93
p0 −12.03 ± 1.433
pull
Entries 94
Mean −1409
Std Dev 0
pull1D
Entries 94
Mean −0.003603
Std Dev 0.9212

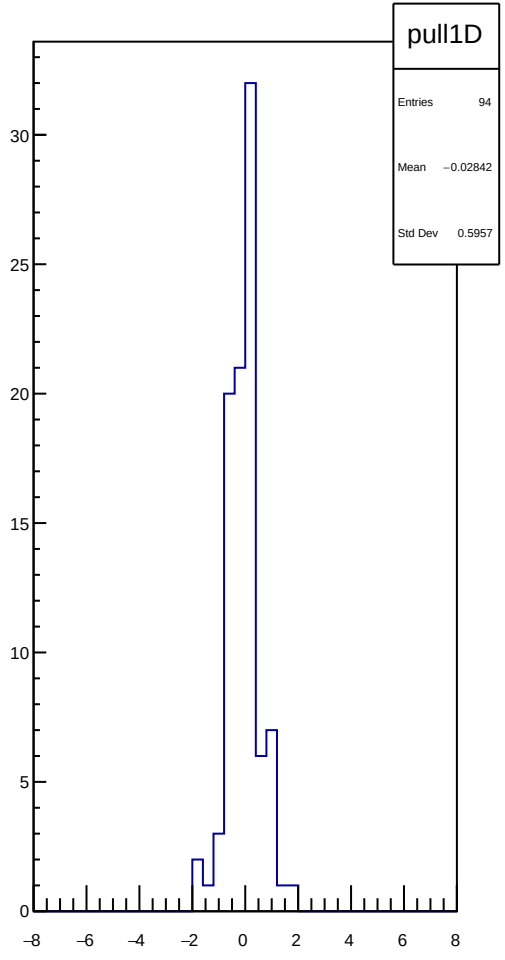

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 75.17 / 93
p0 42.23 ± 1.479
pull
Entries 94
Mean 40.37
Std Dev 0
pull1D
Entries 94
Mean 0.02339
Std Dev 0.894

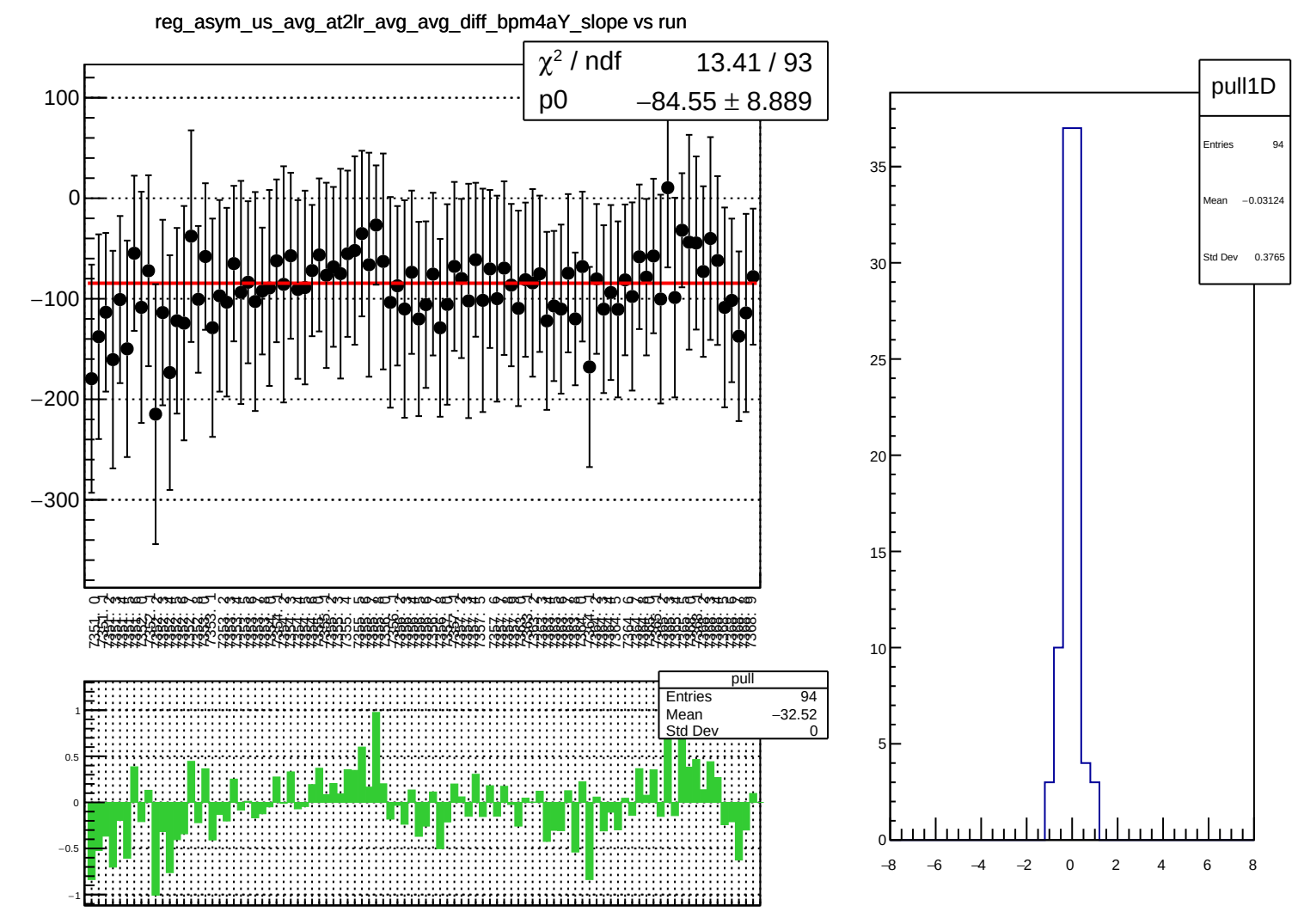

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 75.34 / 93
p0 39.56 ± 1.516
pull
Entries 94
Mean −2317
Std Dev 0

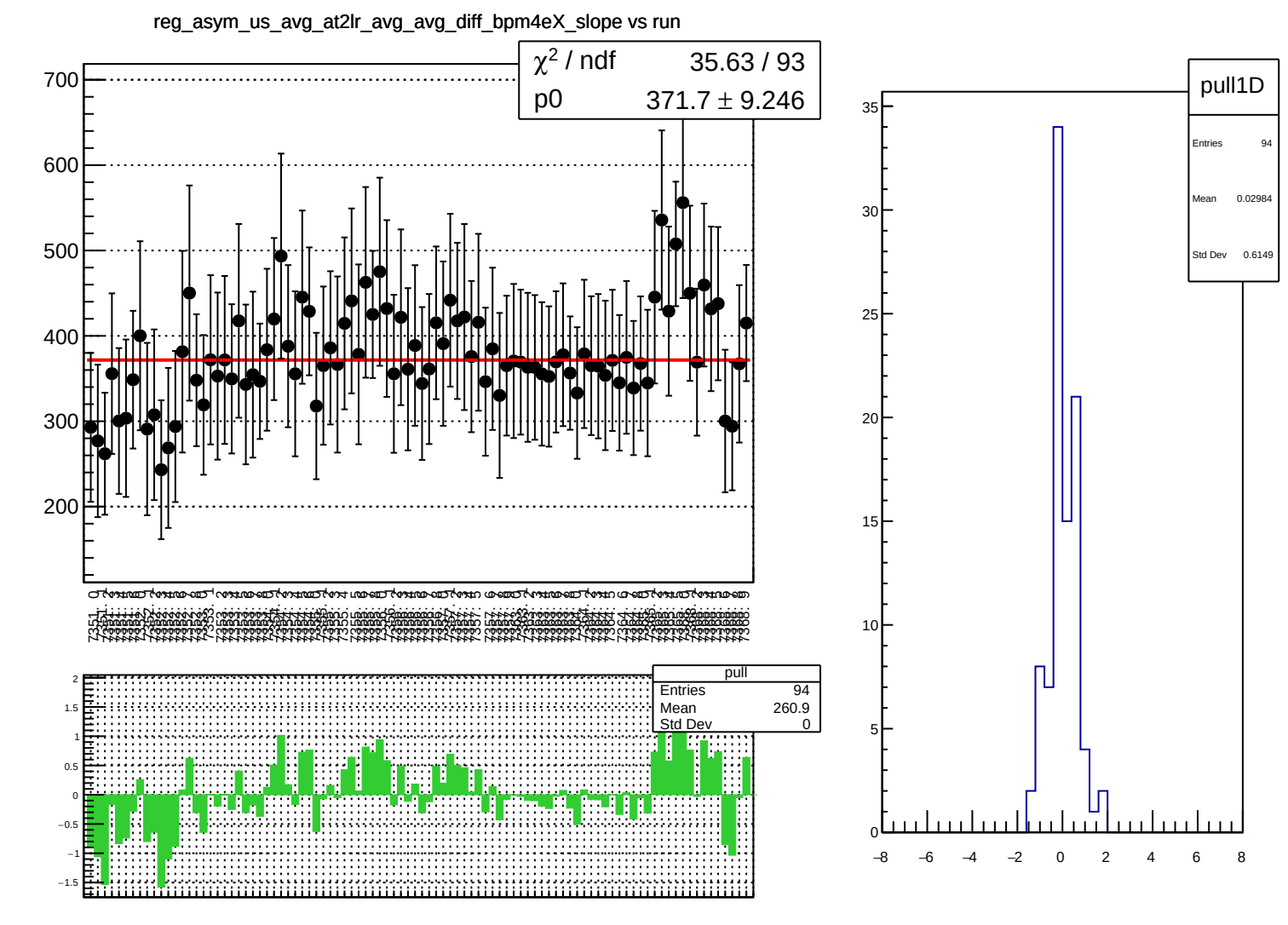

pull1D
Entries 94
Mean 0.002084
Std Dev 0.8953

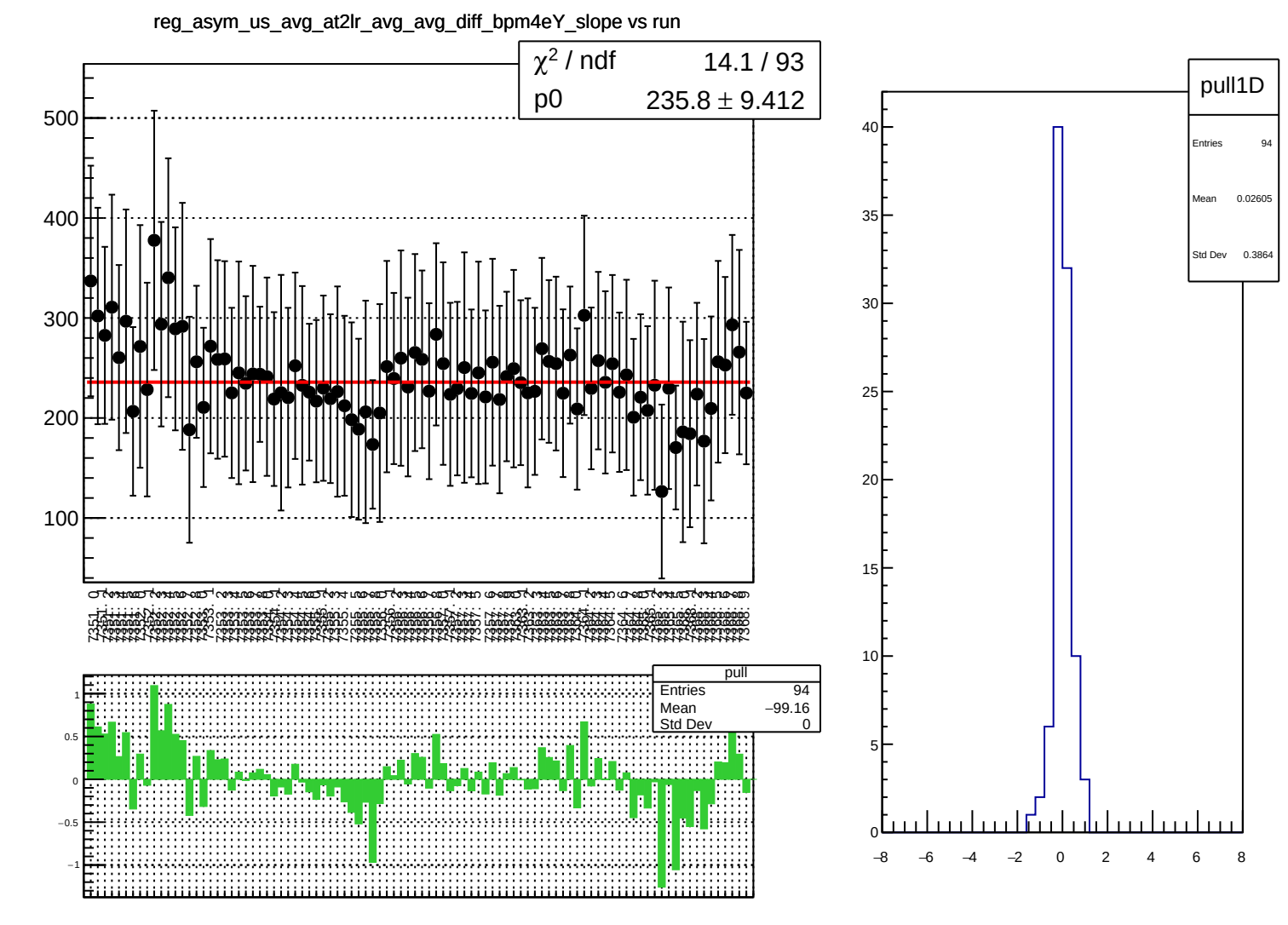

reg_asym_us_avg_at1lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 228.2 / 93
p0 −23.04 ± 0.06994
pull
Entries 94
Mean −495.1
Std Dev 0
pull1D
Entries 94
Mean −0.03104
Std Dev 1.558

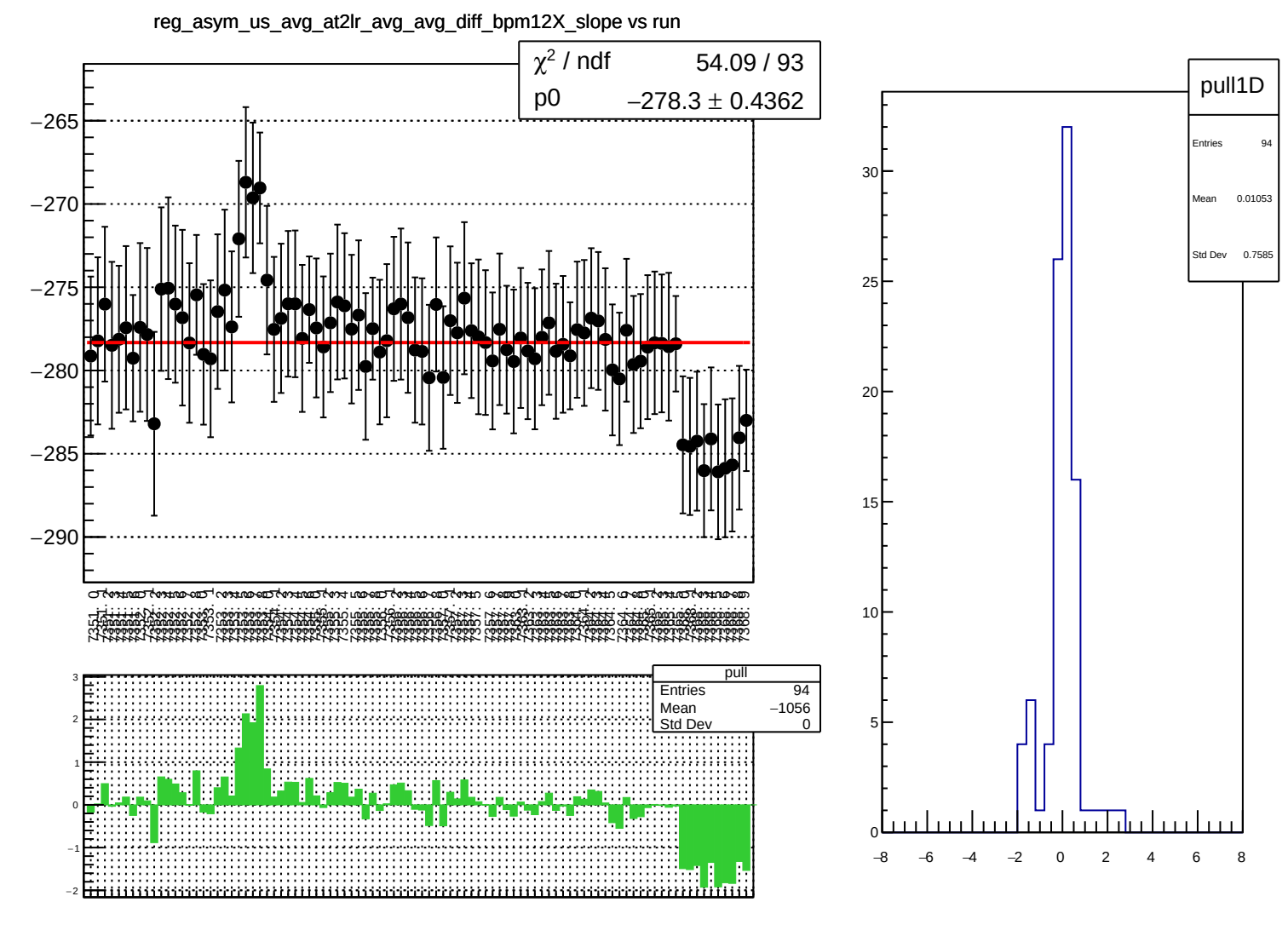

reg_asym_us_avg_at2lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 33.43 / 93
p0 −353.4 ± 9.304
−100
−200
−300
−400
−500
−600
pull
Entries 94
Mean 240.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

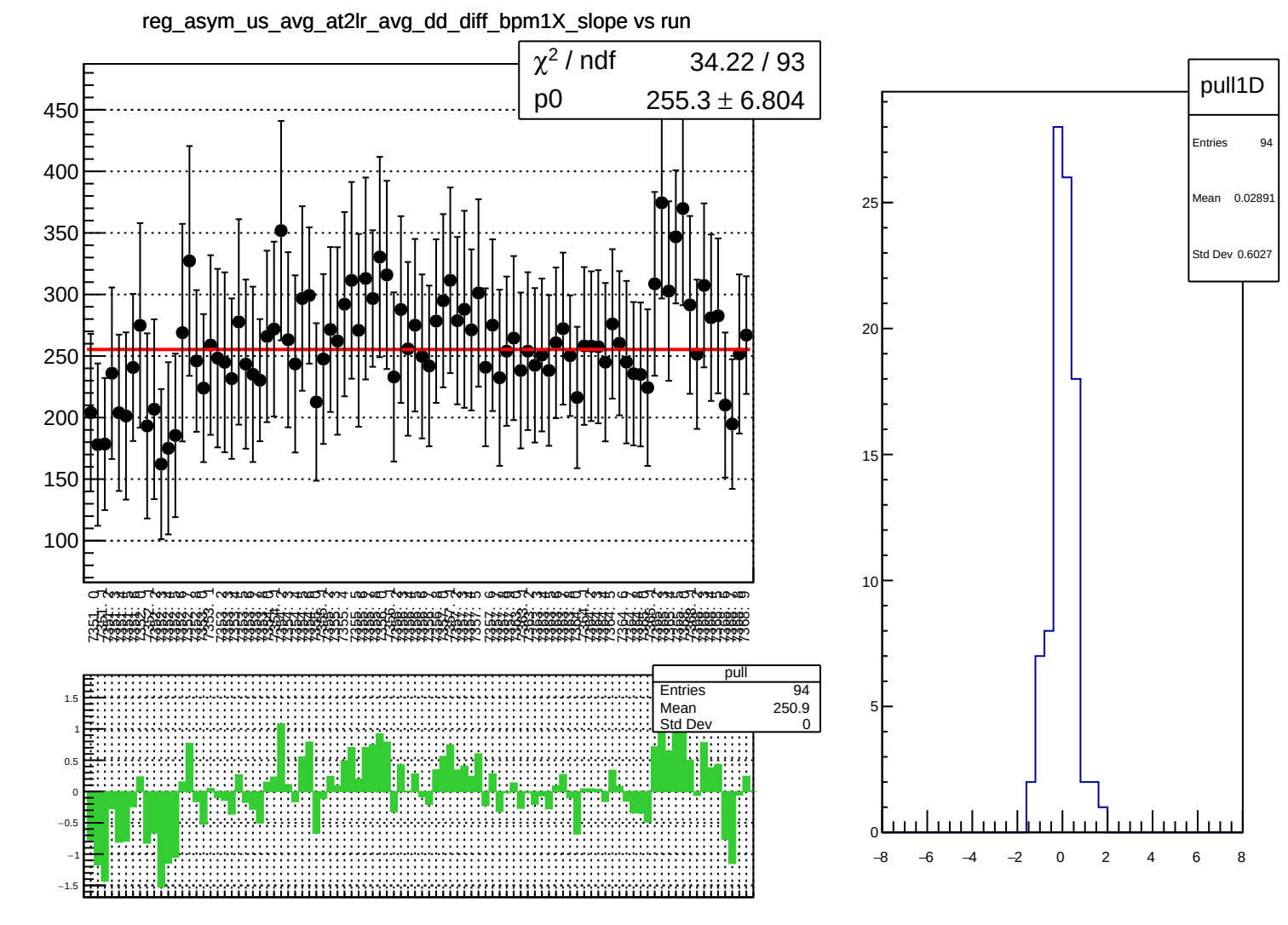

pull1D
Entries 94
Mean −0.02842
Std Dev 0.5957
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

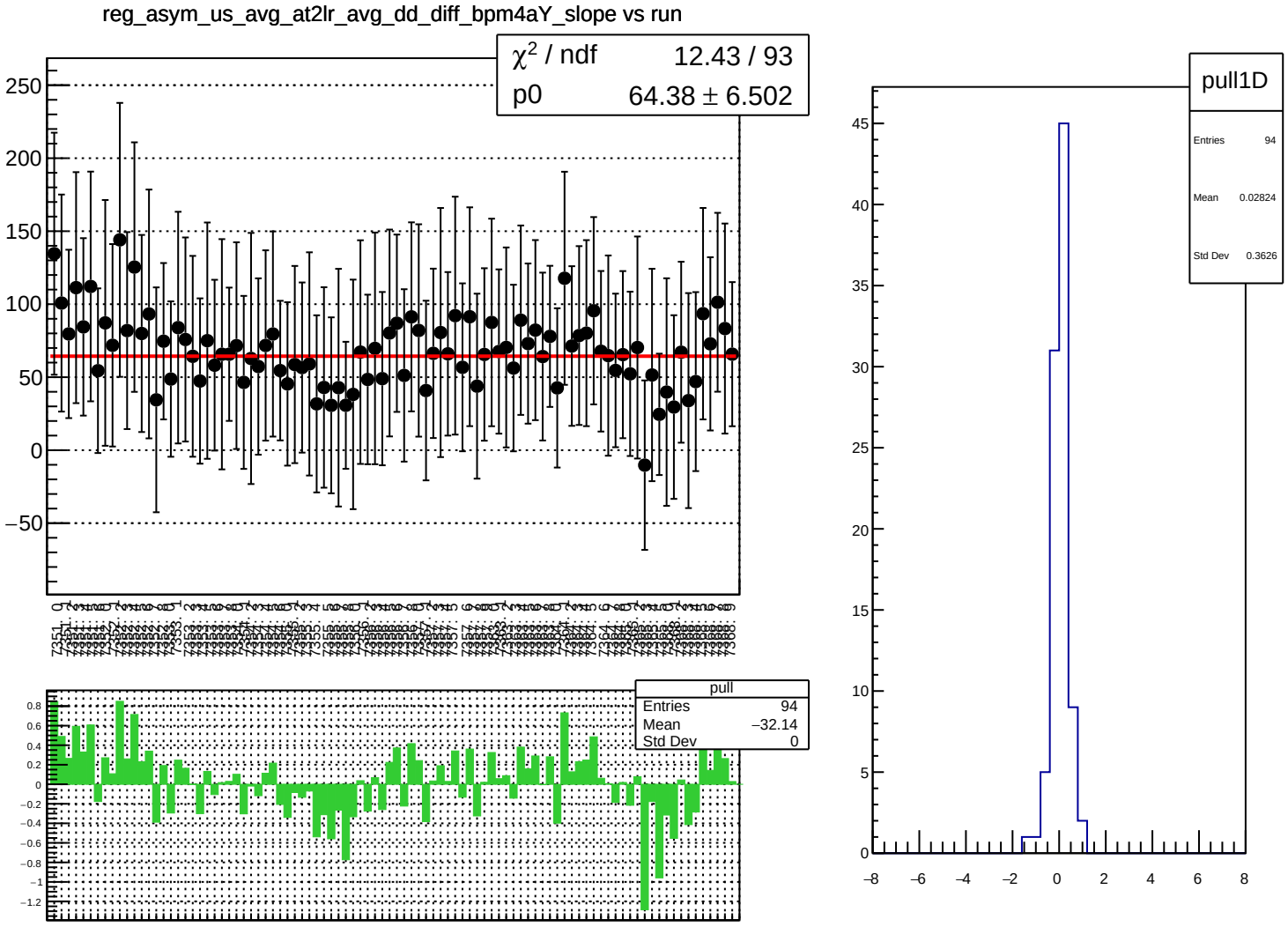

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 13.41 / 93
p0 −84.55 ± 8.889
100
0
−100
−200
−300
pull
Entries 94
Mean −32.52
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 94
Mean −0.03124
Std Dev 0.3765
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

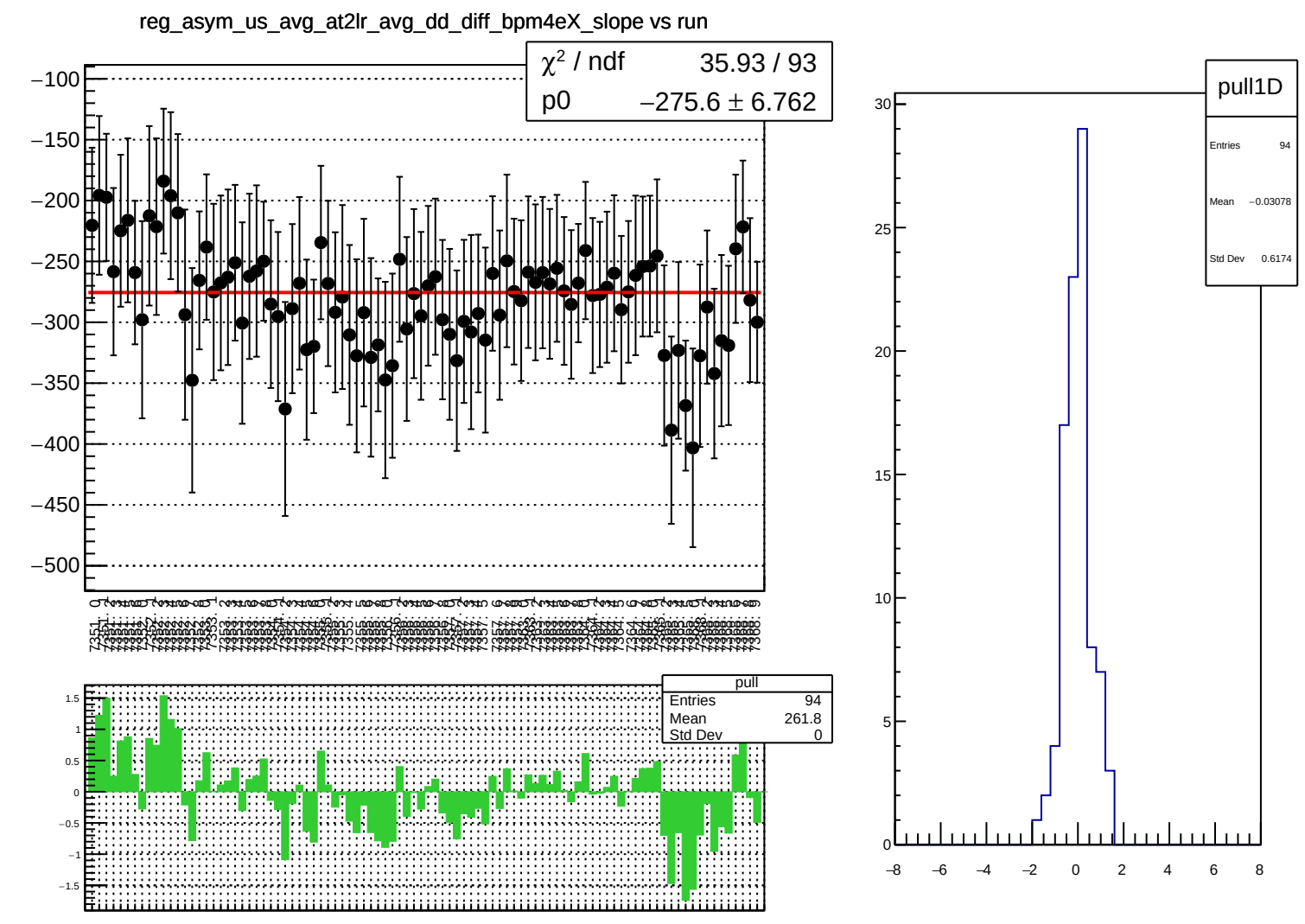

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 35.63 / 93
p0 371.7 ± 9.246
pull
Entries 94
Mean 260.9
Std Dev 0
pull1D
Entries 94
Mean 0.02984
Std Dev 0.6149

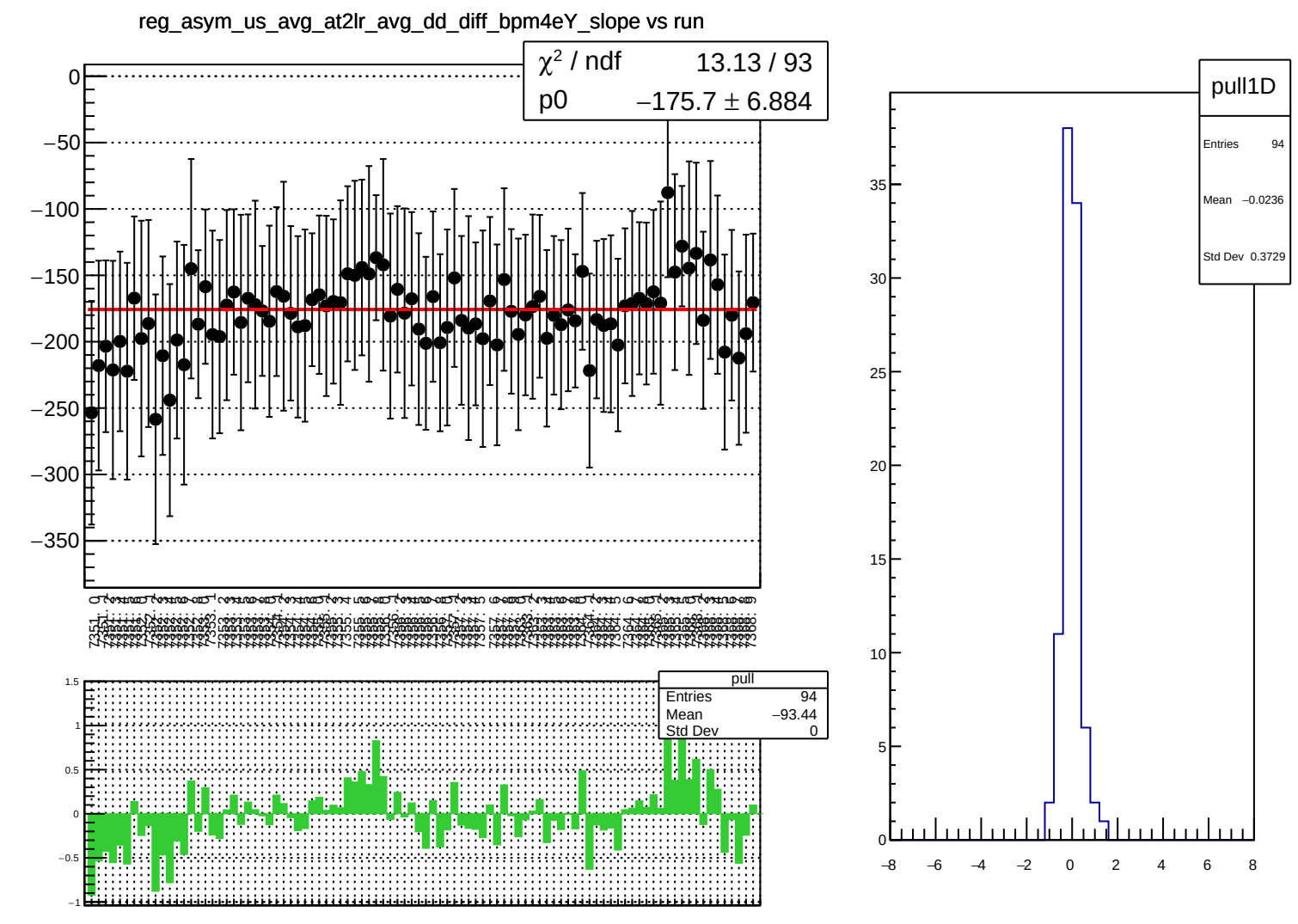

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 14.1 / 93
p0 235.8 ± 9.412
pull
Entries 94
Mean −99.16
Std Dev 0
pull1D
Entries 94
Mean 0.02605
Std Dev 0.3864

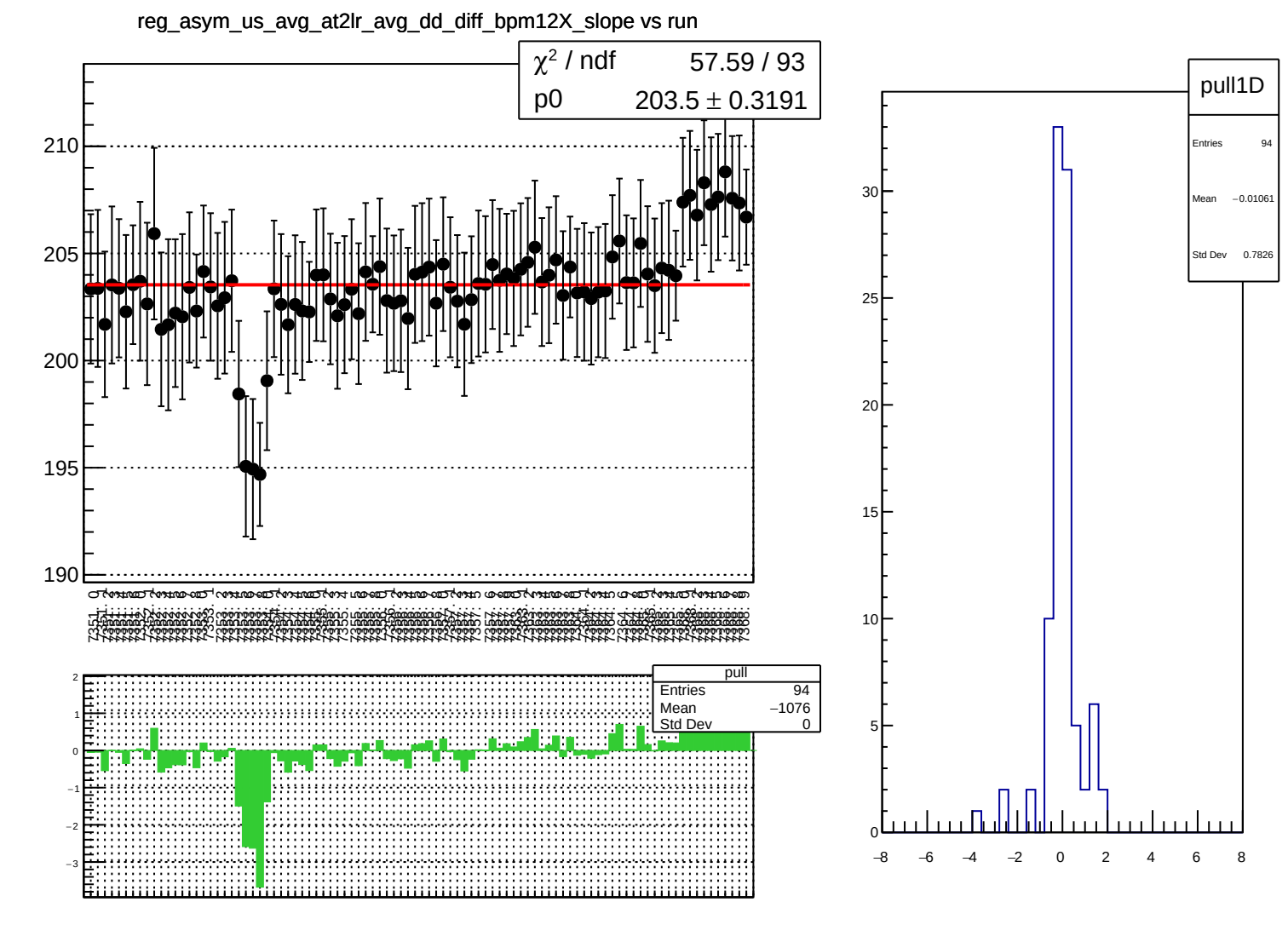

reg_asym_us_avg_at2lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 54.09 / 93
p0 −278.3 ± 0.4362
−265
−270
−275
−280
−285
−290
pull
Entries 94
Mean −1056
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.01053
Std Dev 0.7585
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

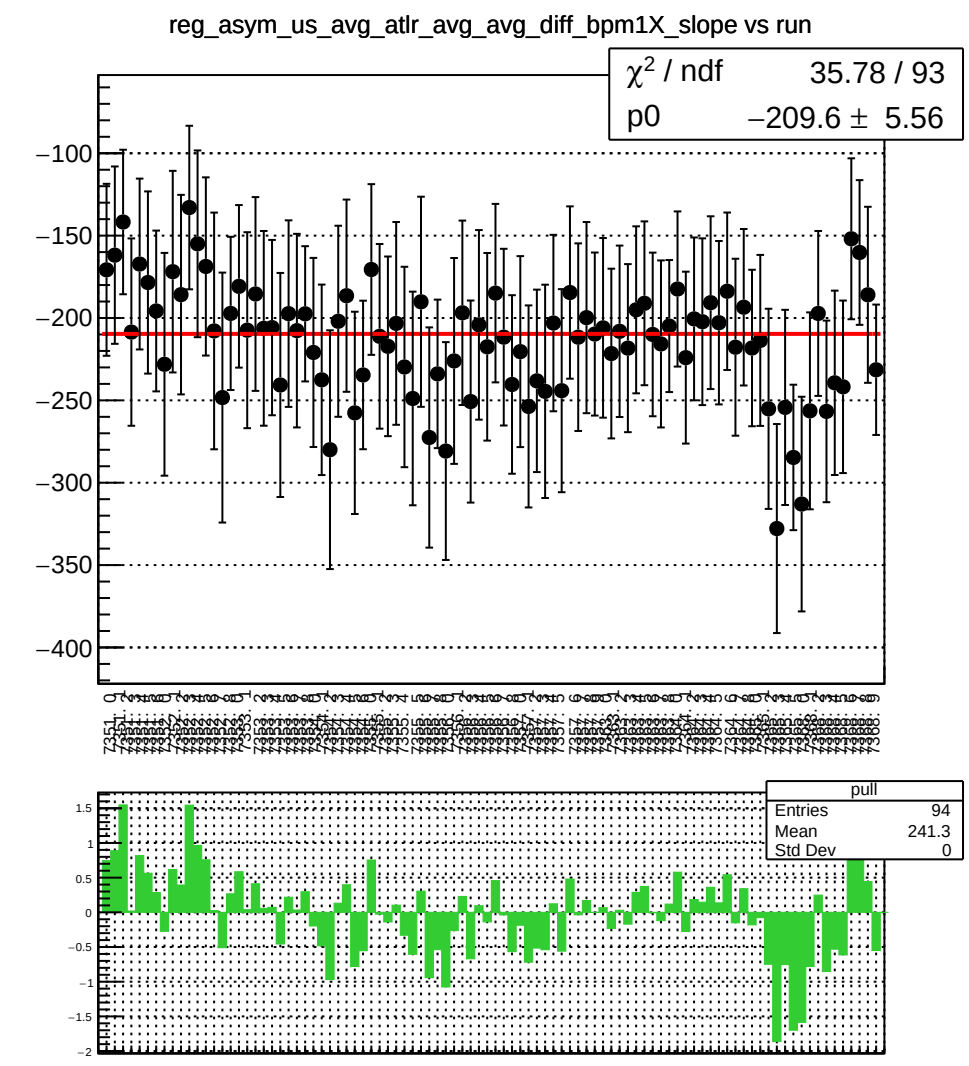

reg_asym_us_avg_at2lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 34.22 / 93
p0 255.3 ± 6.804
pull
Entries 94
Mean 250.9
Std Dev 0
pull1D
Entries 94
Mean 0.02891
Std Dev 0.6027

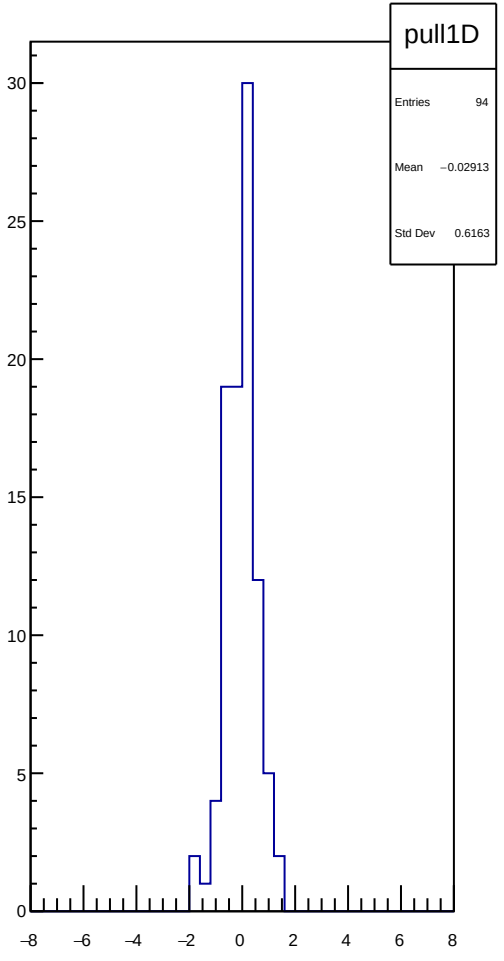

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 12.43 / 93
p0 64.38 ± 6.502
pull
Entries 94
Mean −32.14
Std Dev 0
pull1D
Entries 94
Mean 0.02824
Std Dev 0.3626

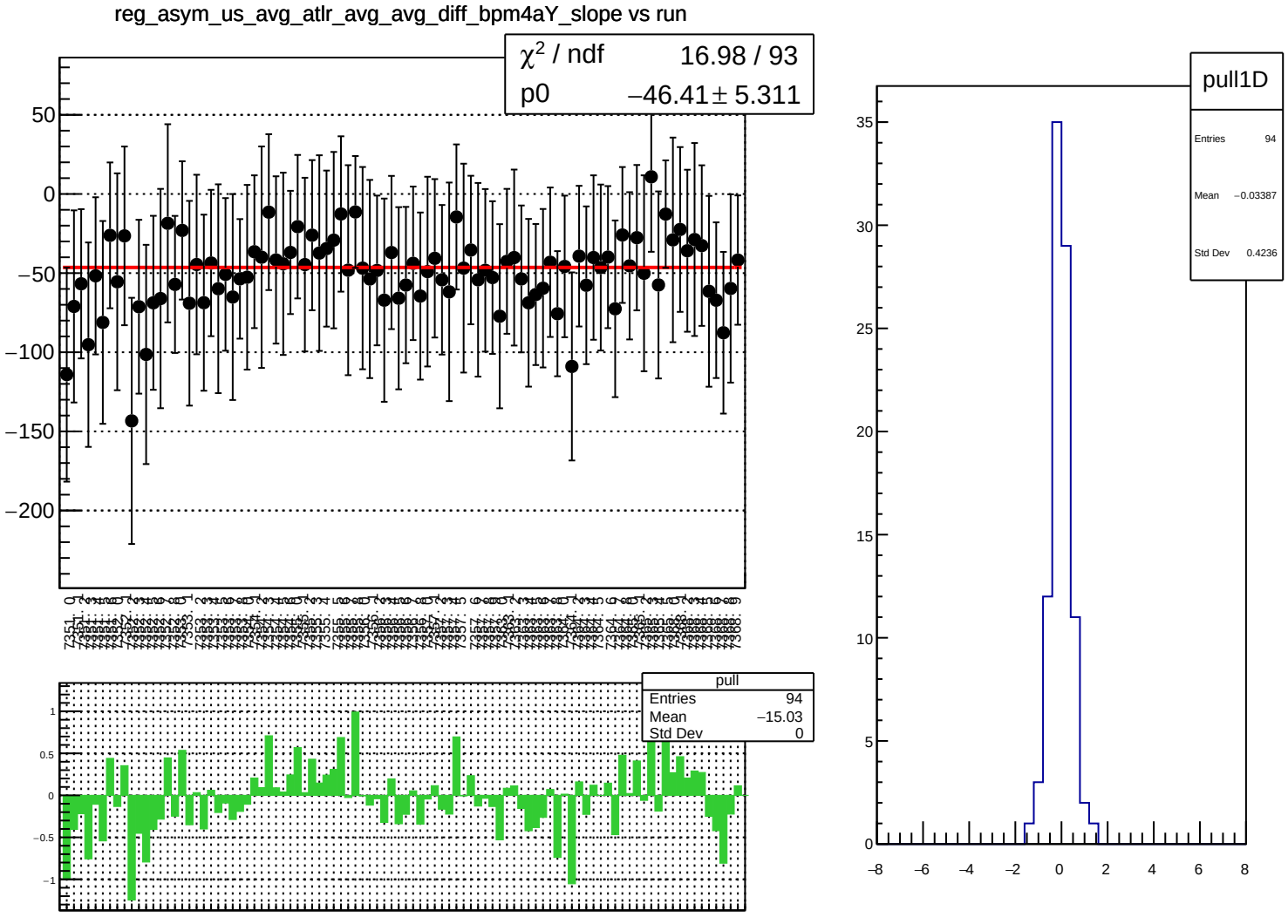

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 35.93 / 93
p0 −275.6 ± 6.762
pull
Entries 94
Mean 261.8
Std Dev 0
pull1D
Entries 94
Mean −0.03078
Std Dev 0.6174

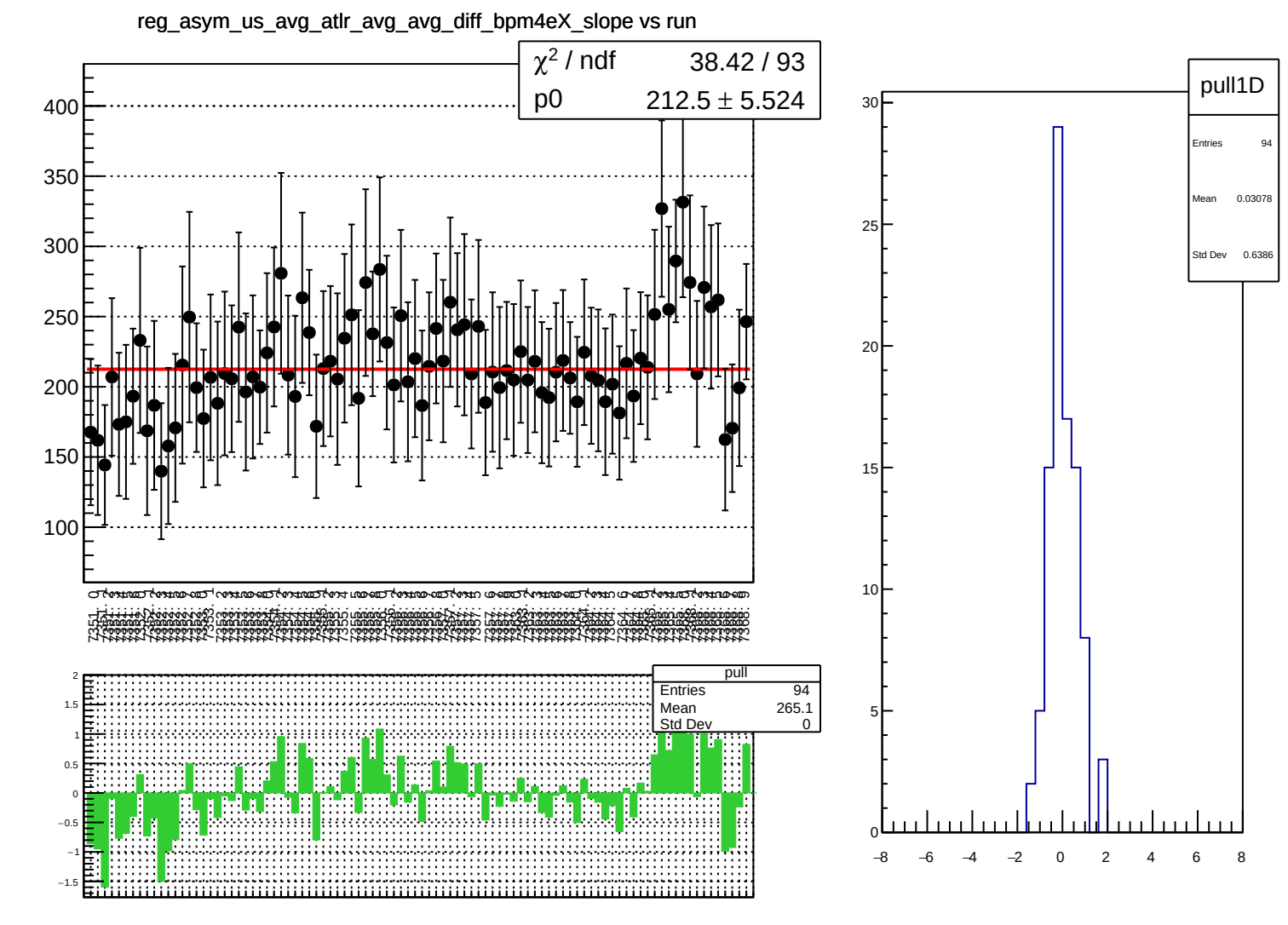

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 13.13 / 93
p0 −175.7 ± 6.884
pull
Entries 94
Mean −93.44
Std Dev 0
pull1D
Entries 94
Mean −0.0236
Std Dev 0.3729

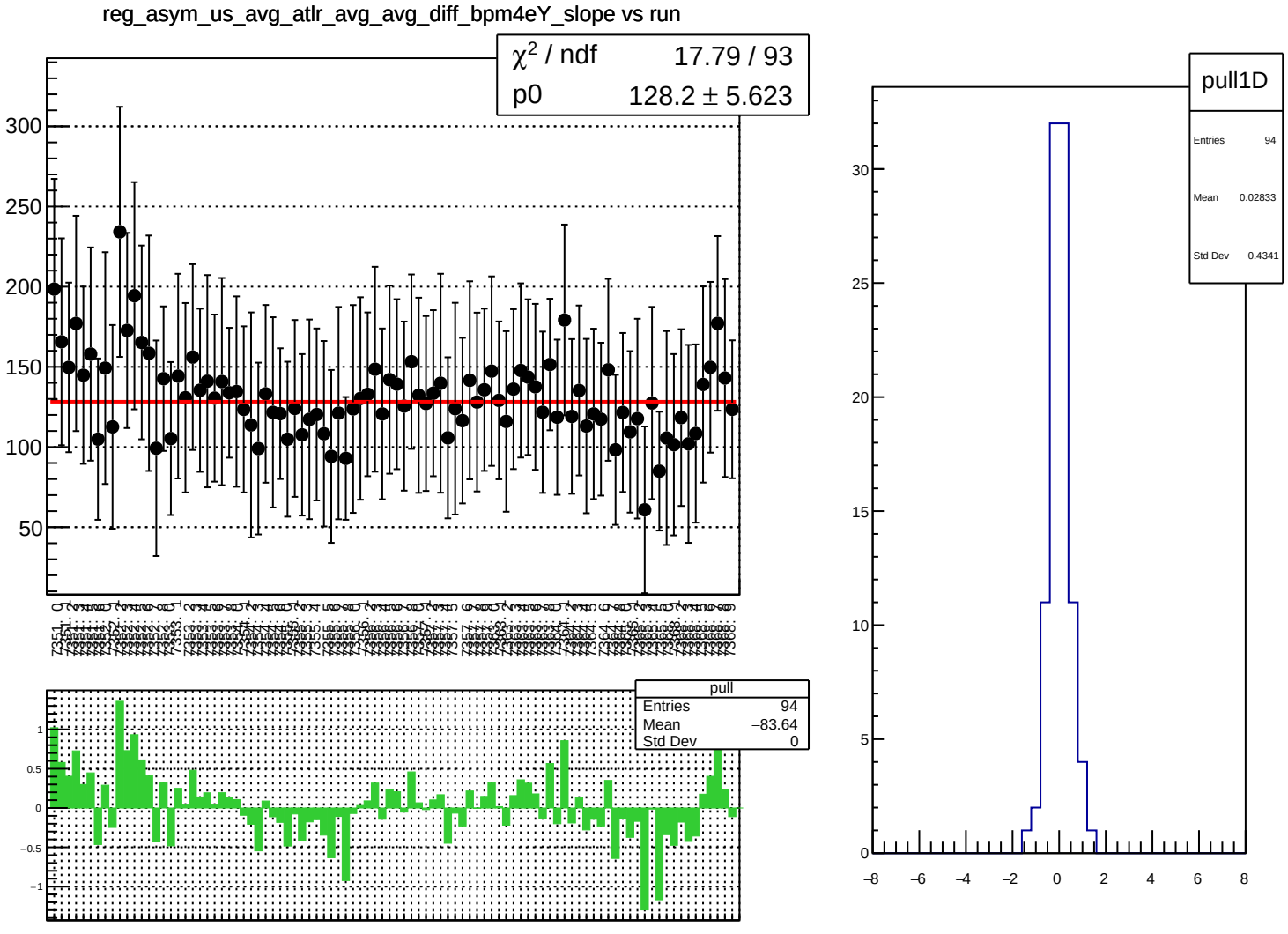

reg_asym_us_avg_at2lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 57.59 / 93
p0 203.5 ± 0.3191
210
205
200
195
190
pull
Entries 94
Mean −1076
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.01061
Std Dev 0.7826
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

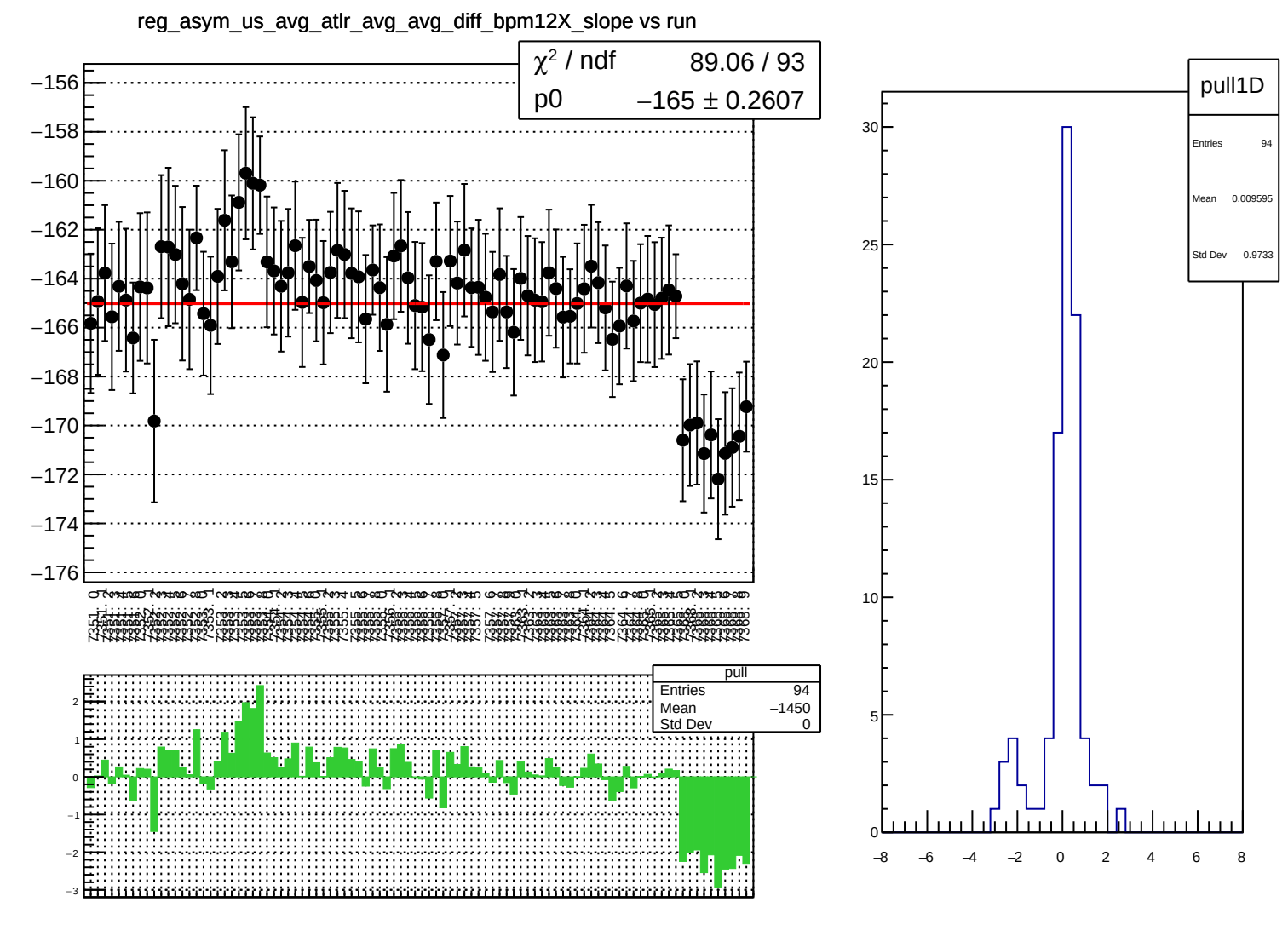

reg_asym_us_avg_atlr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 35.78 / 93
p0 −209.6 ± 5.56
−100
−150
−200
−250
−300
−350
−400
pull
Entries 94
Mean 241.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

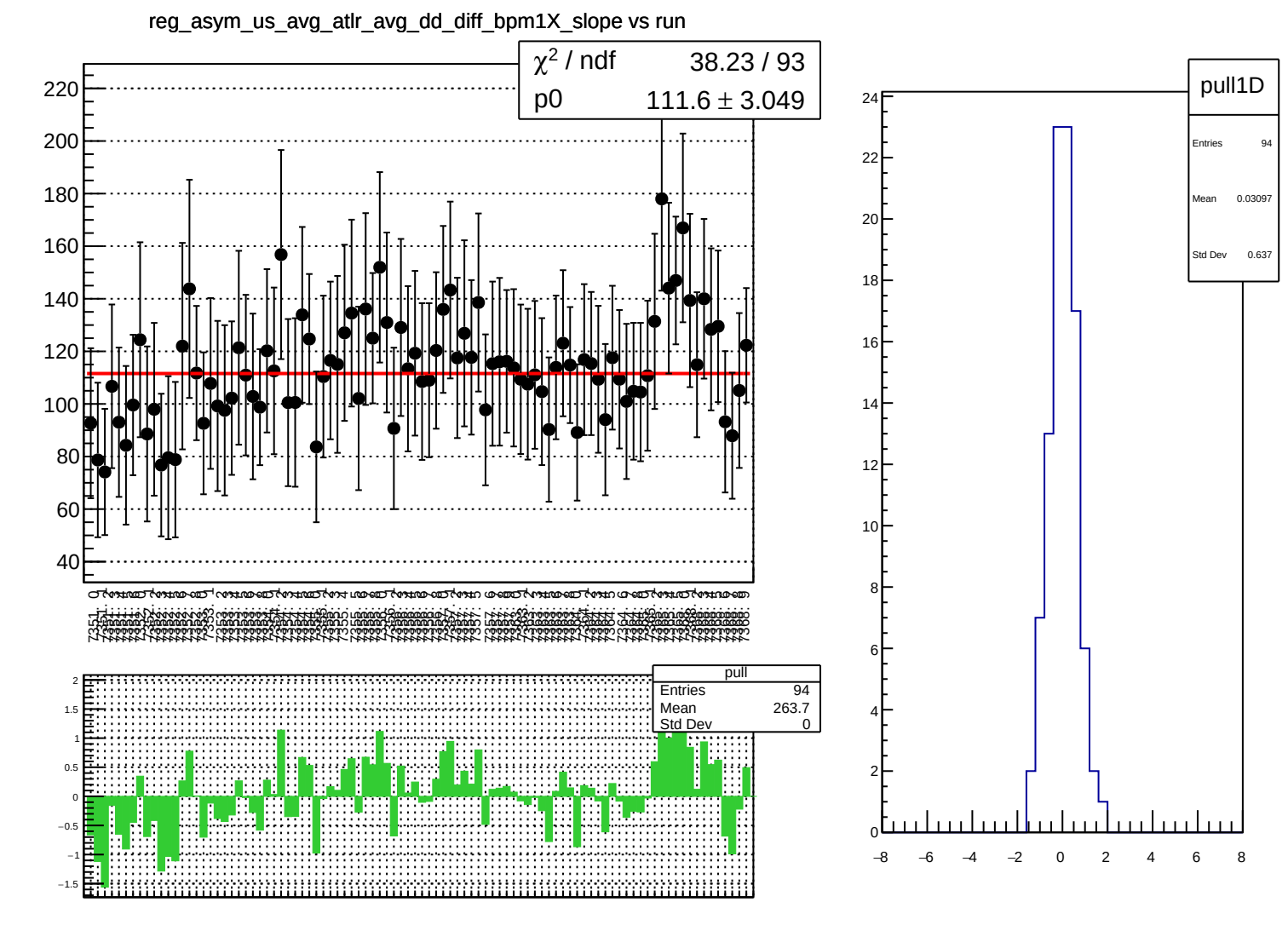

pull1D
Entries 94
Mean −0.02913
Std Dev 0.6163
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

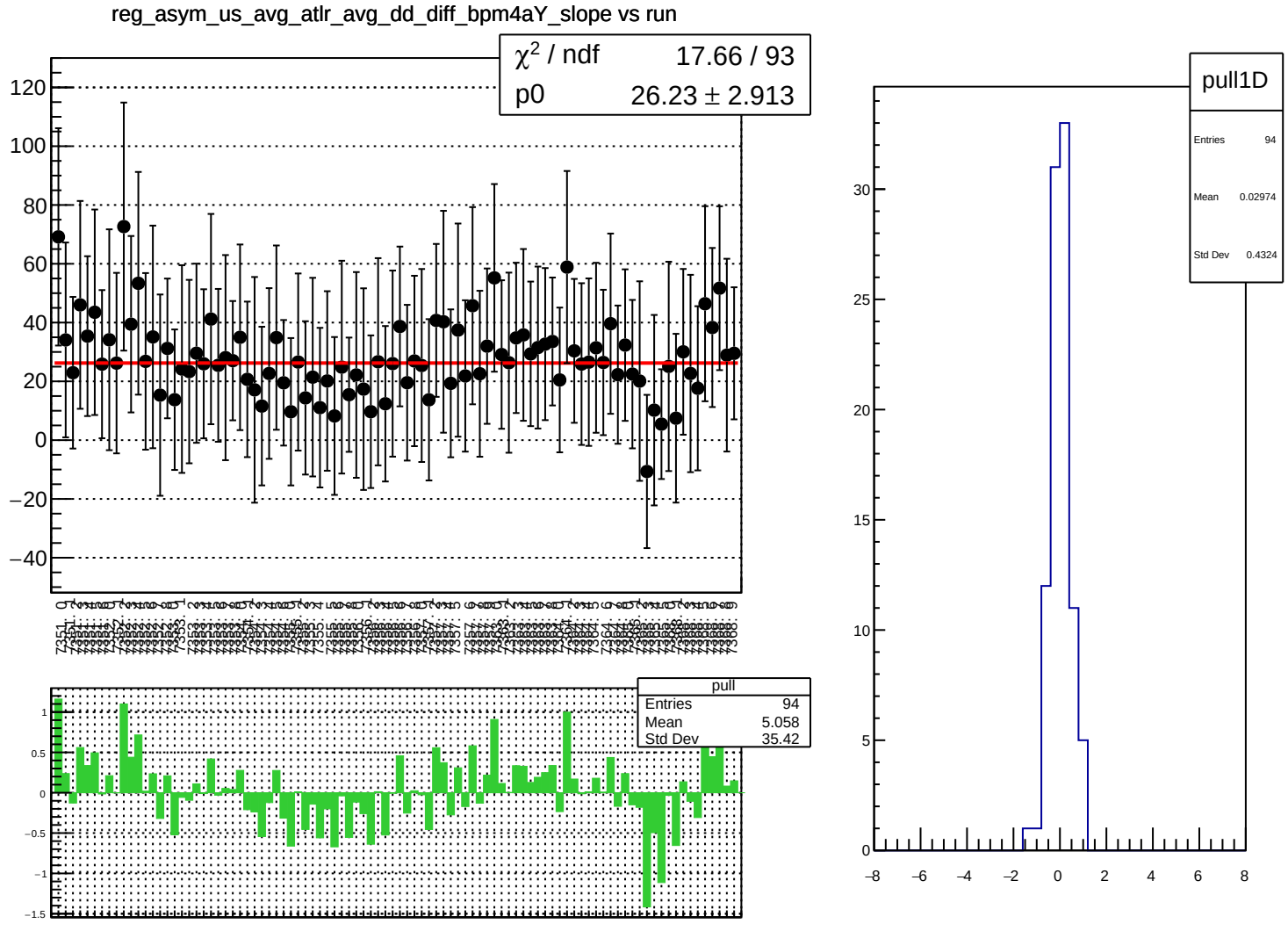

reg_asym_us_avg_atlr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 16.98 / 93
p0 −46.41 ± 5.311
50
0
−50
−100
−150
−200
pull
Entries 94
Mean −15.03
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 94
Mean −0.03387
Std Dev 0.4236
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

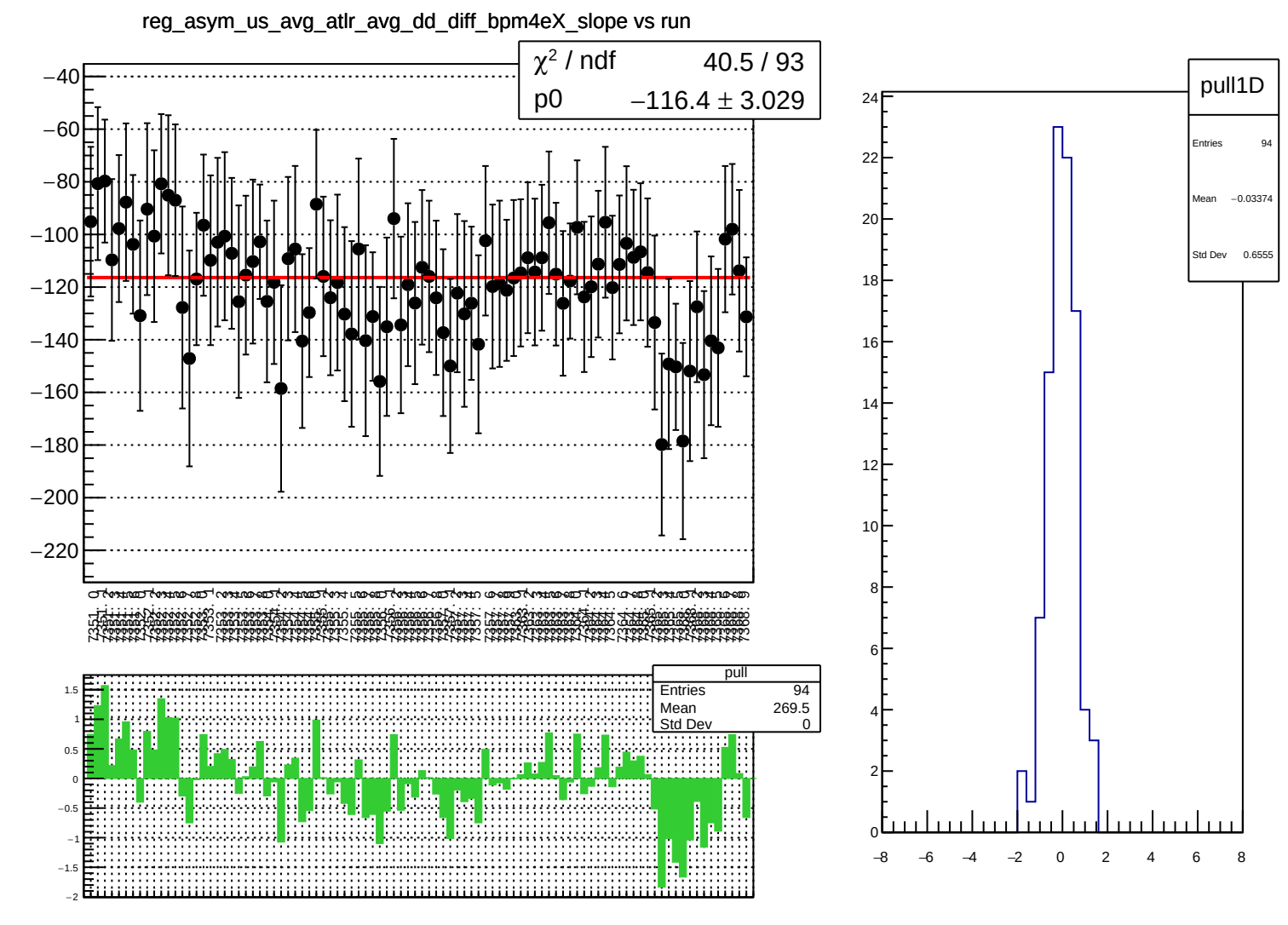

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 38.42 / 93
p0 212.5 ± 5.524
pull
Entries 94
Mean 265.1
Std Dev 0
pull1D
Entries 94
Mean 0.03078
Std Dev 0.6386

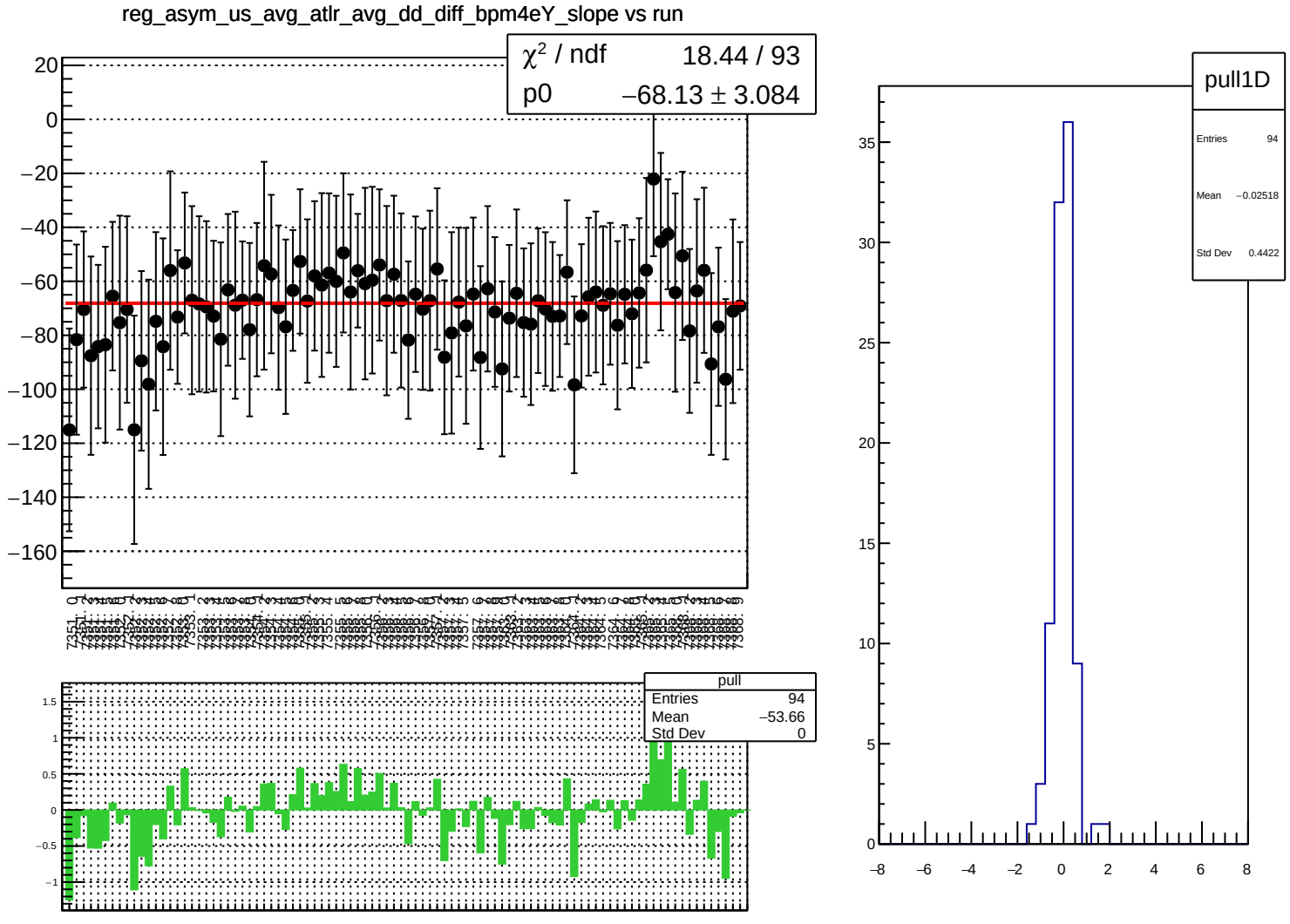

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 17.79 / 93
p0 128.2 ± 5.623
300
250
200
150
100
50
pull
Entries 94
Mean −83.64
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 94
Mean 0.02833
Std Dev 0.4341
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

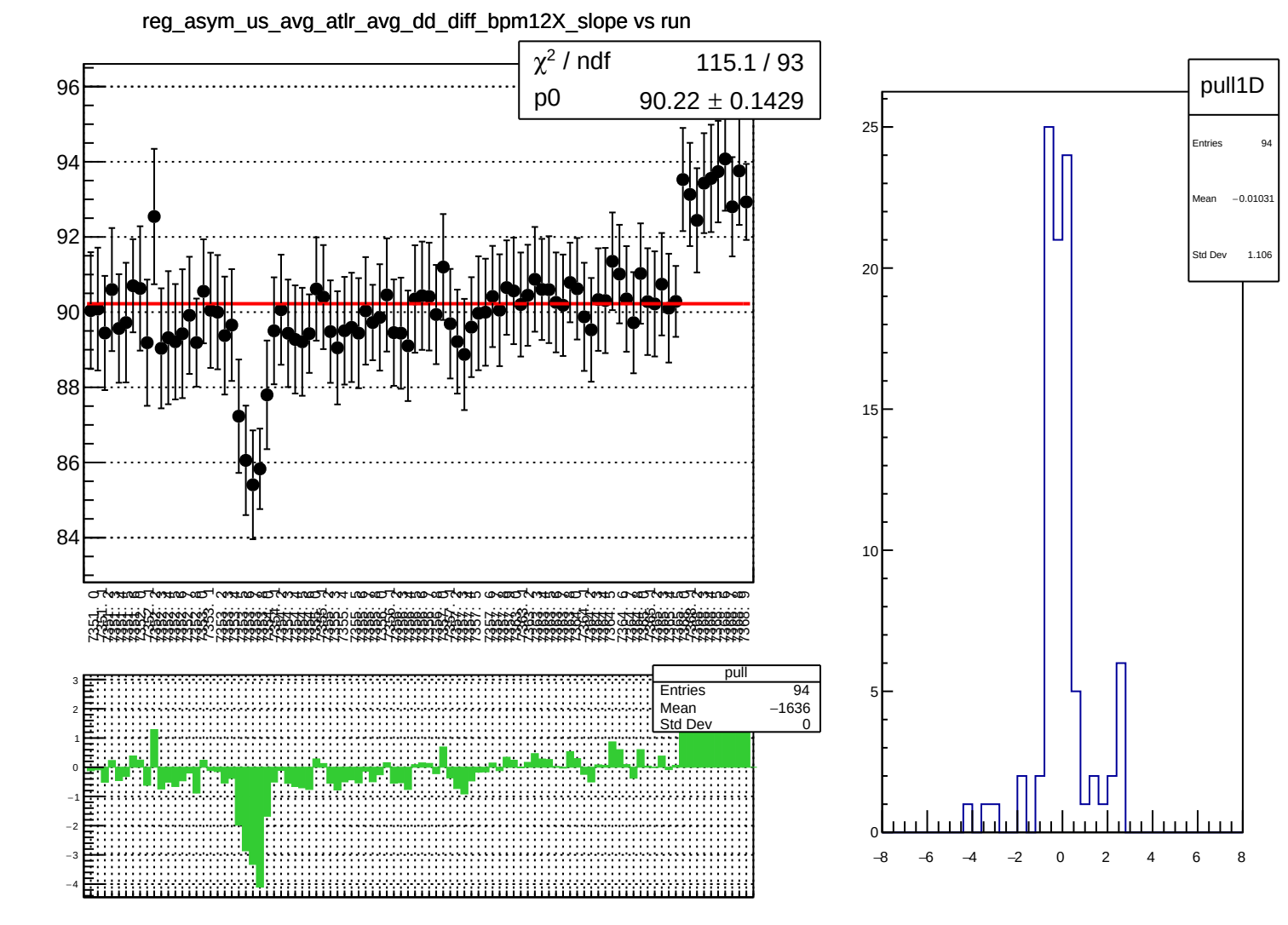

reg_asym_us_avg_atlr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 89.06 / 93
p0 −165 ± 0.2607
pull
Entries 94
Mean −1450
Std Dev 0
pull1D
Entries 94
Mean 0.009595
Std Dev 0.9733

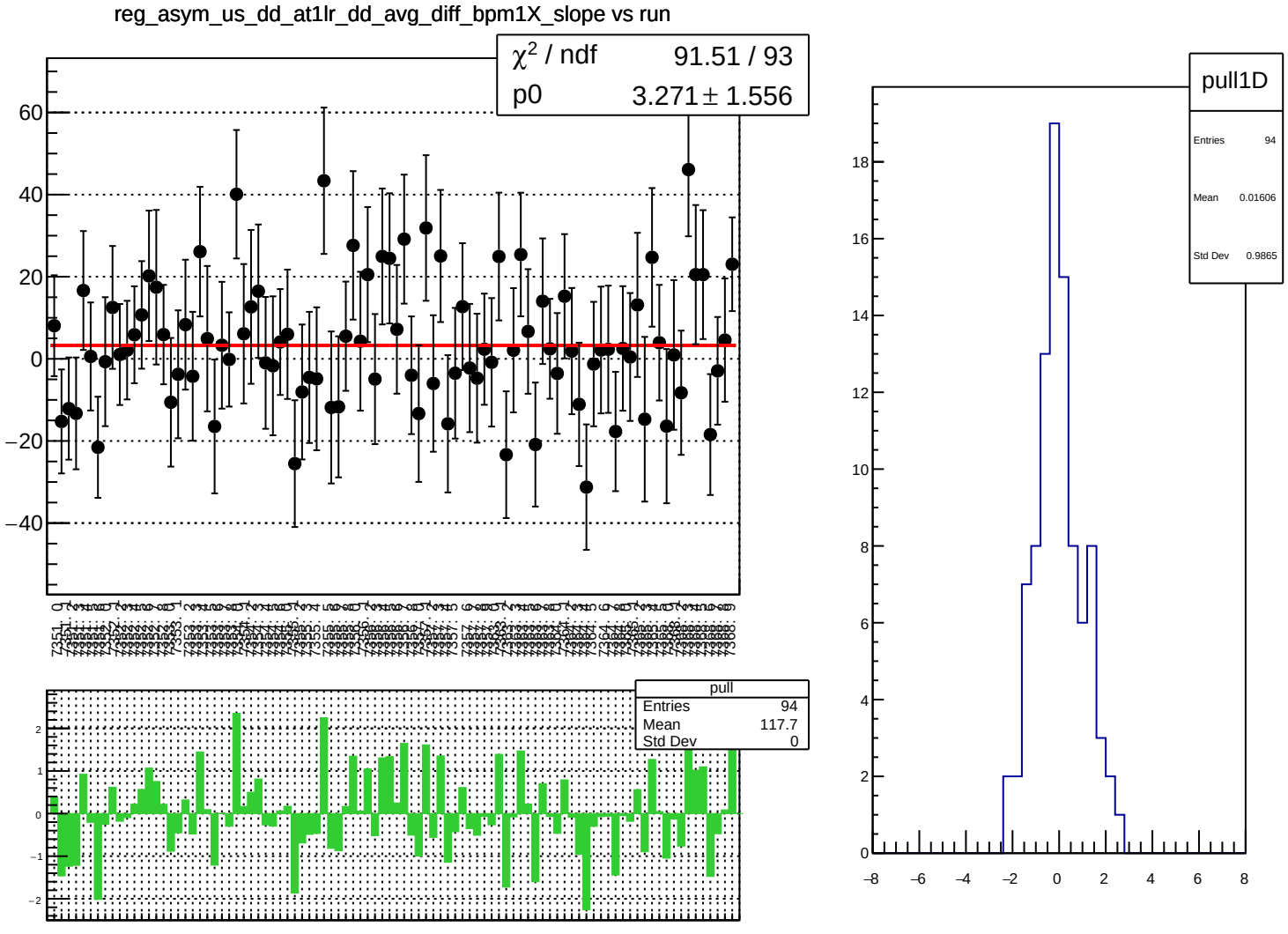

reg_asym_us_avg_atlr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 38.23 / 93
p0 111.6 ± 3.049
pull
Entries 94
Mean 263.7
Std Dev 0
pull1D
Entries 94
Mean 0.03097
Std Dev 0.637

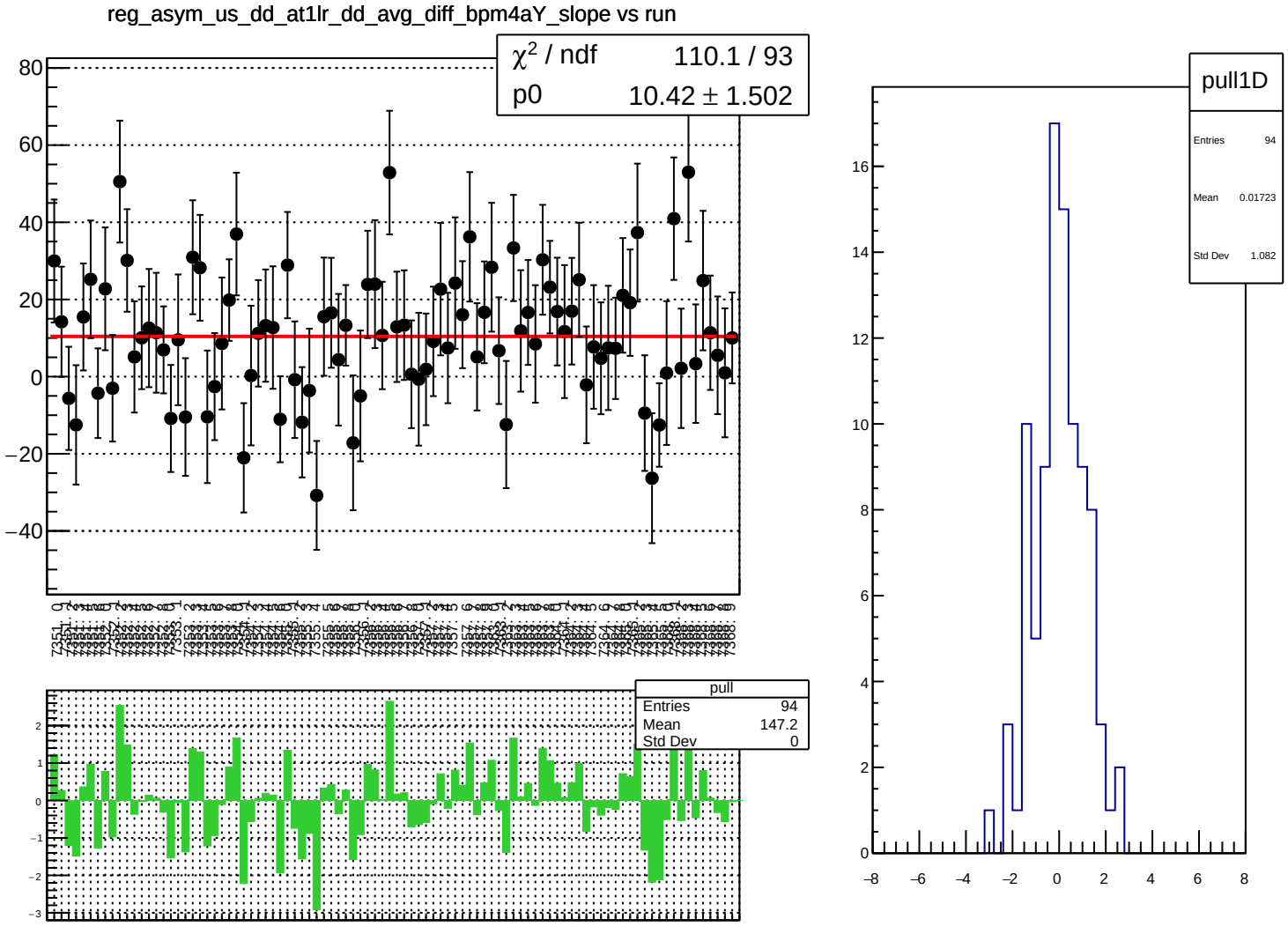

reg_asym_us_avg_atlr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 17.66 / 93
p0 26.23 ± 2.913
pull
Entries 94
Mean 5.058
Std Dev 35.42
pull1D
Entries 94
Mean 0.02974
Std Dev 0.4324

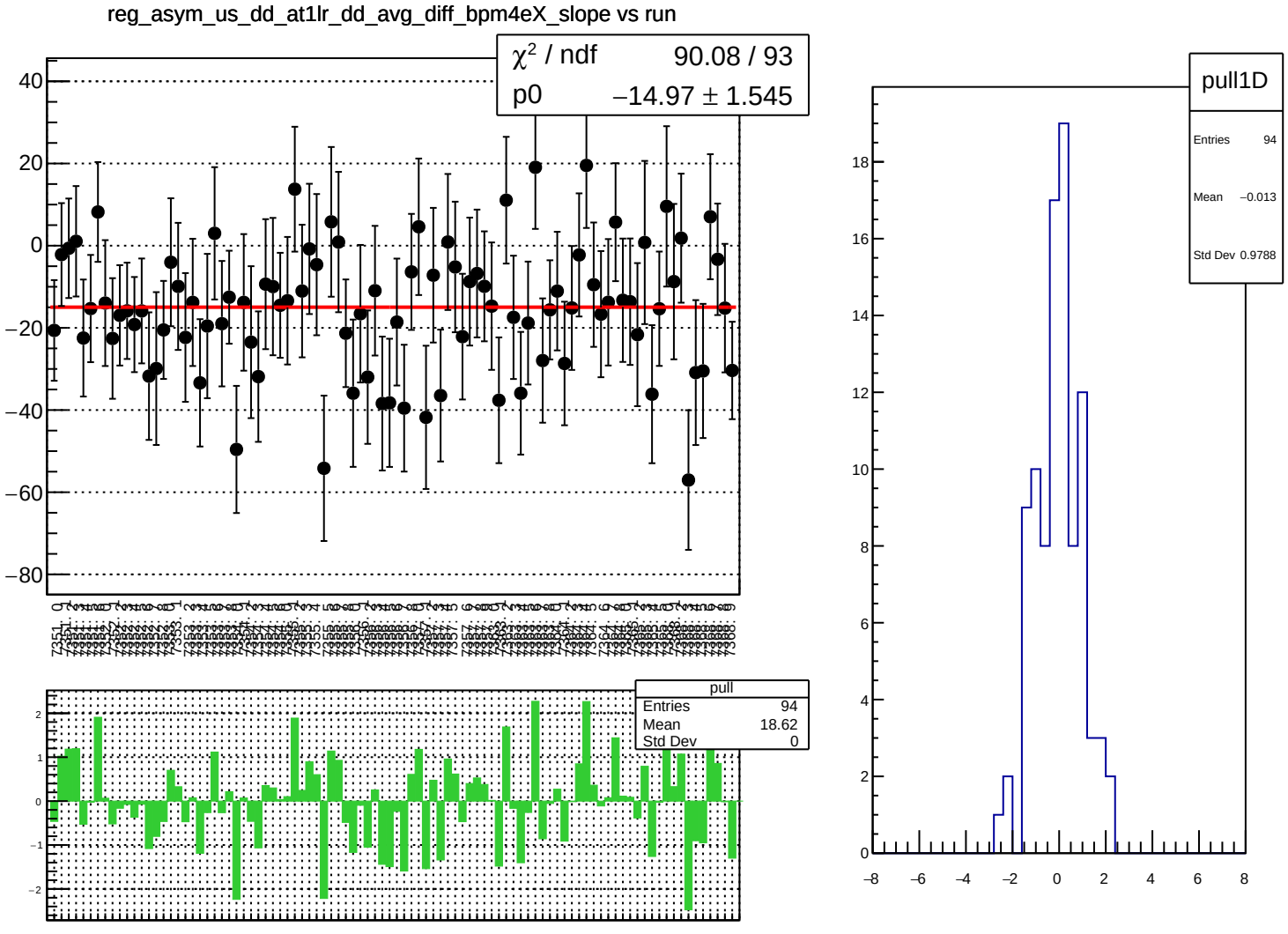

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 40.5 / 93
p0 −116.4 ± 3.029
pull
Entries 94
Mean 269.5
Std Dev 0
pull1D
Entries 94
Mean −0.03374
Std Dev 0.6555

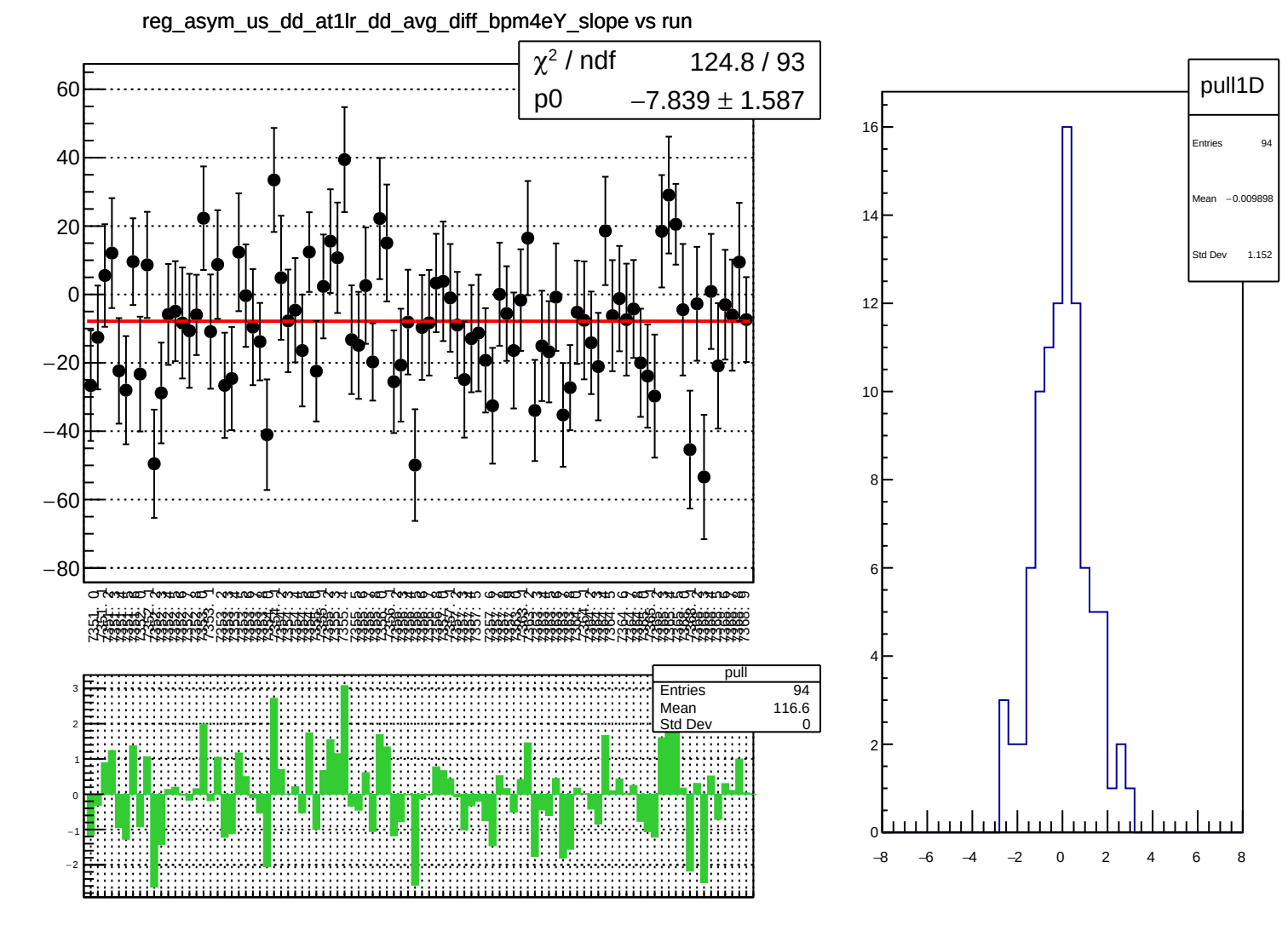

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 18.44 / 93
p0 −68.13 ± 3.084
pull
Entries 94
Mean −53.66
Std Dev 0
pull1D
Entries 94
Mean −0.02518
Std Dev 0.4422

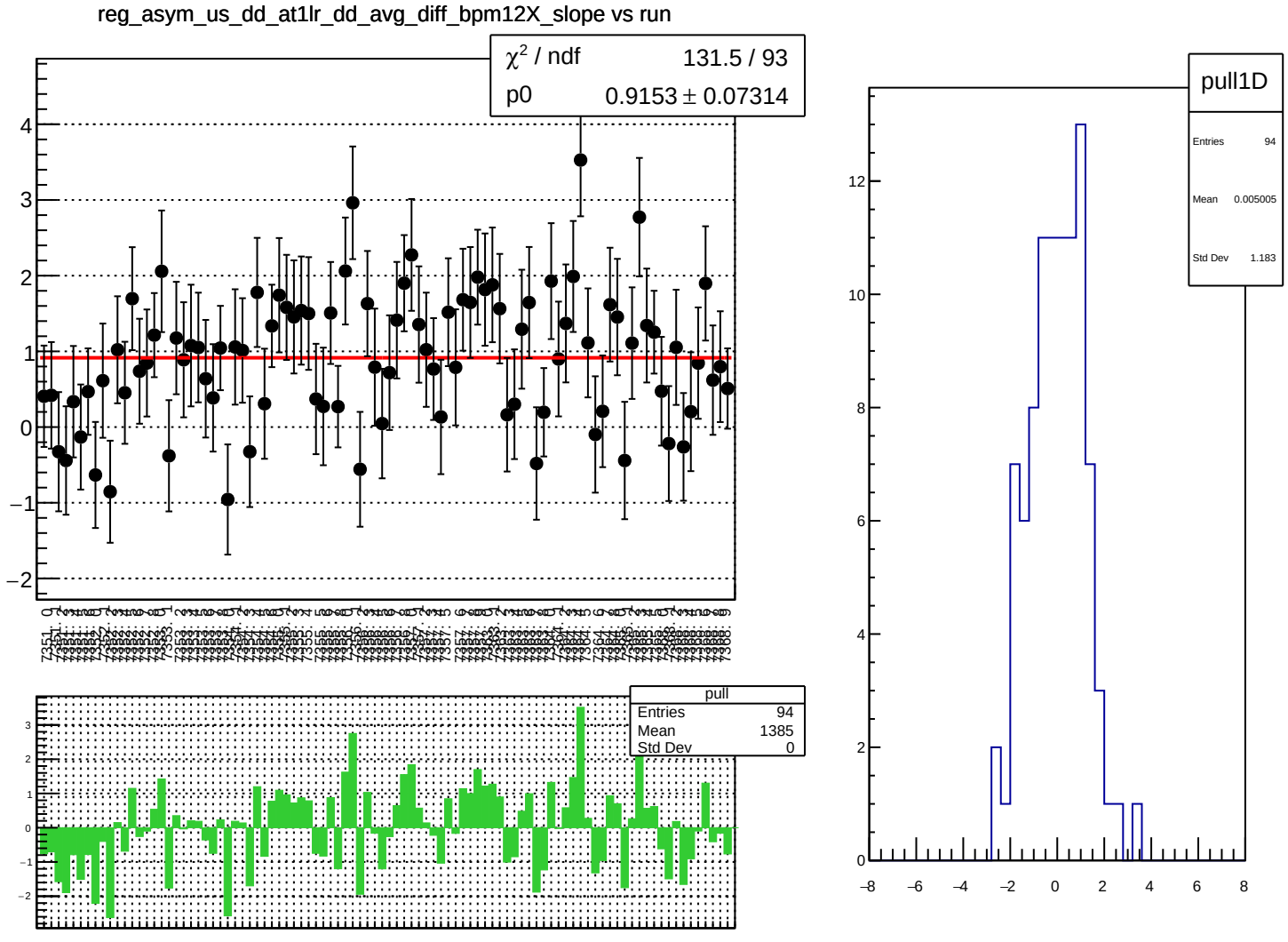

reg_asym_us_avg_atlr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 115.1 / 93
p0 90.22 ± 0.1429
pull
Entries 94
Mean −1636
Std Dev 0
pull1D
Entries 94
Mean −0.01031
Std Dev 1.106

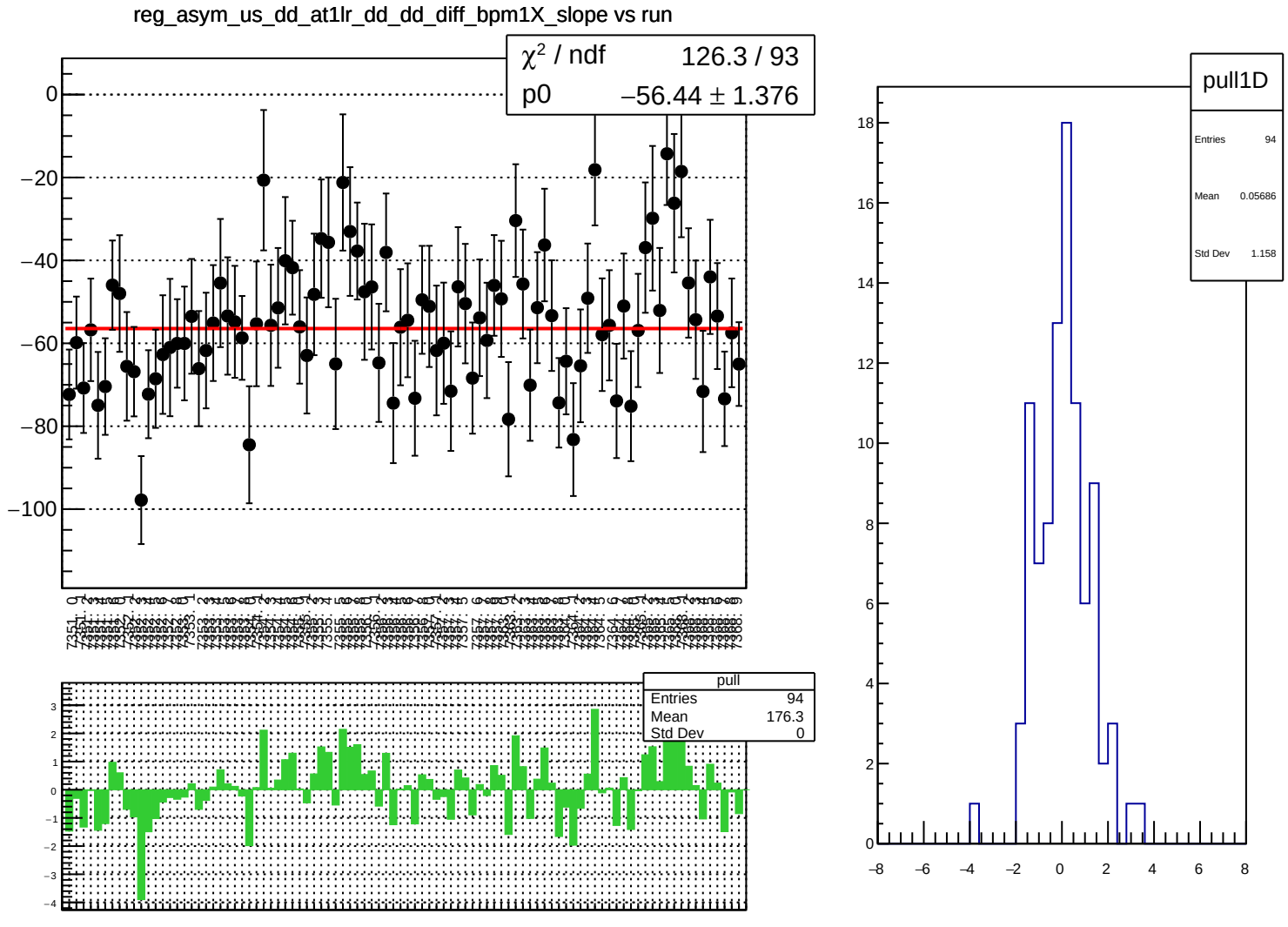

reg_asym_us_dd_at1lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 91.51 / 93
p0 3.271 ± 1.556
pull
Entries 94
Mean 117.7
Std Dev 0
pull1D
Entries 94
Mean 0.01606
Std Dev 0.9865

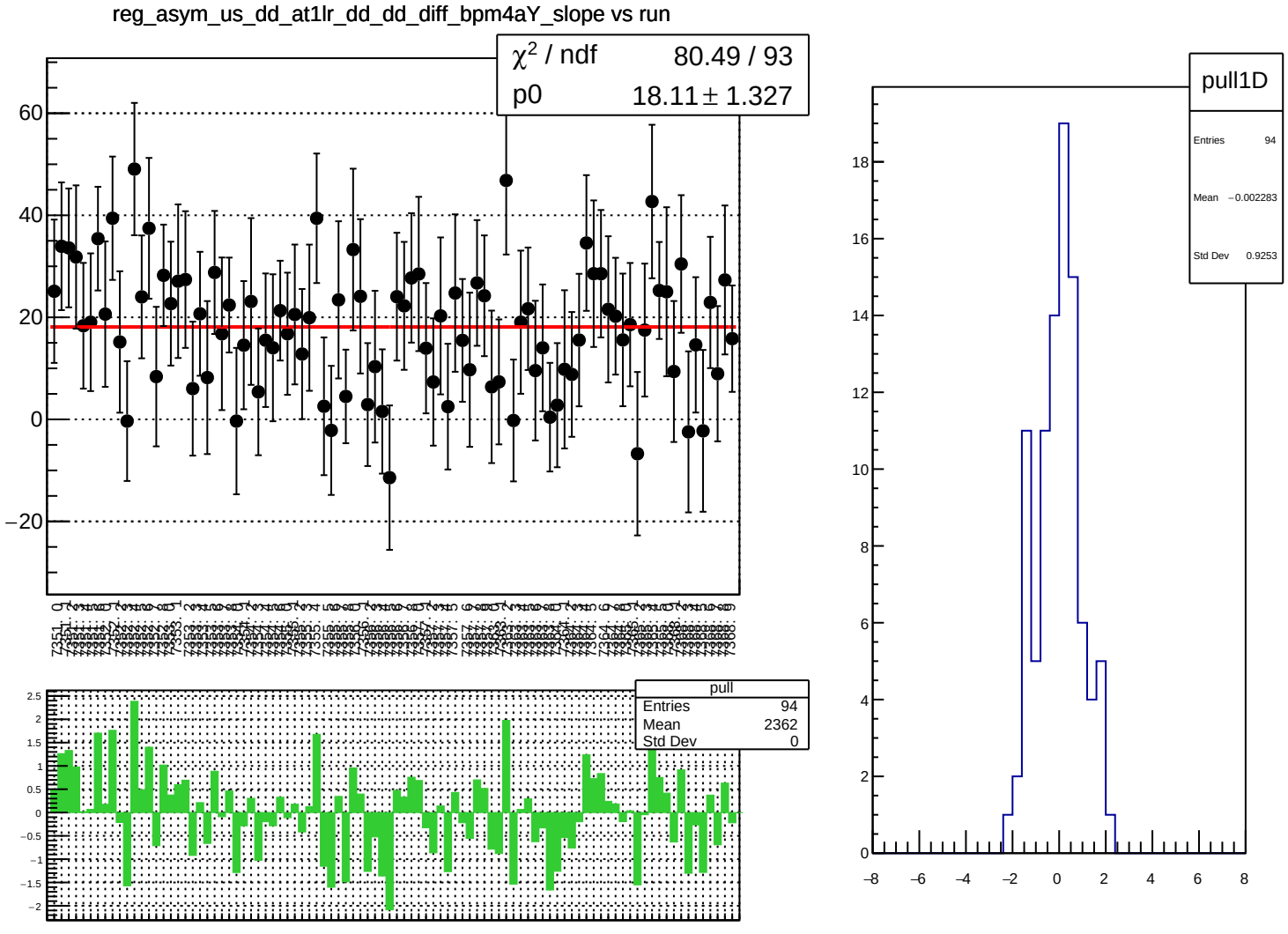

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 110.1 / 93
p0 10.42 ± 1.502
pull
Entries 94
Mean 147.2
Std Dev 0
pull1D
Entries 94
Mean 0.01723
Std Dev 1.082

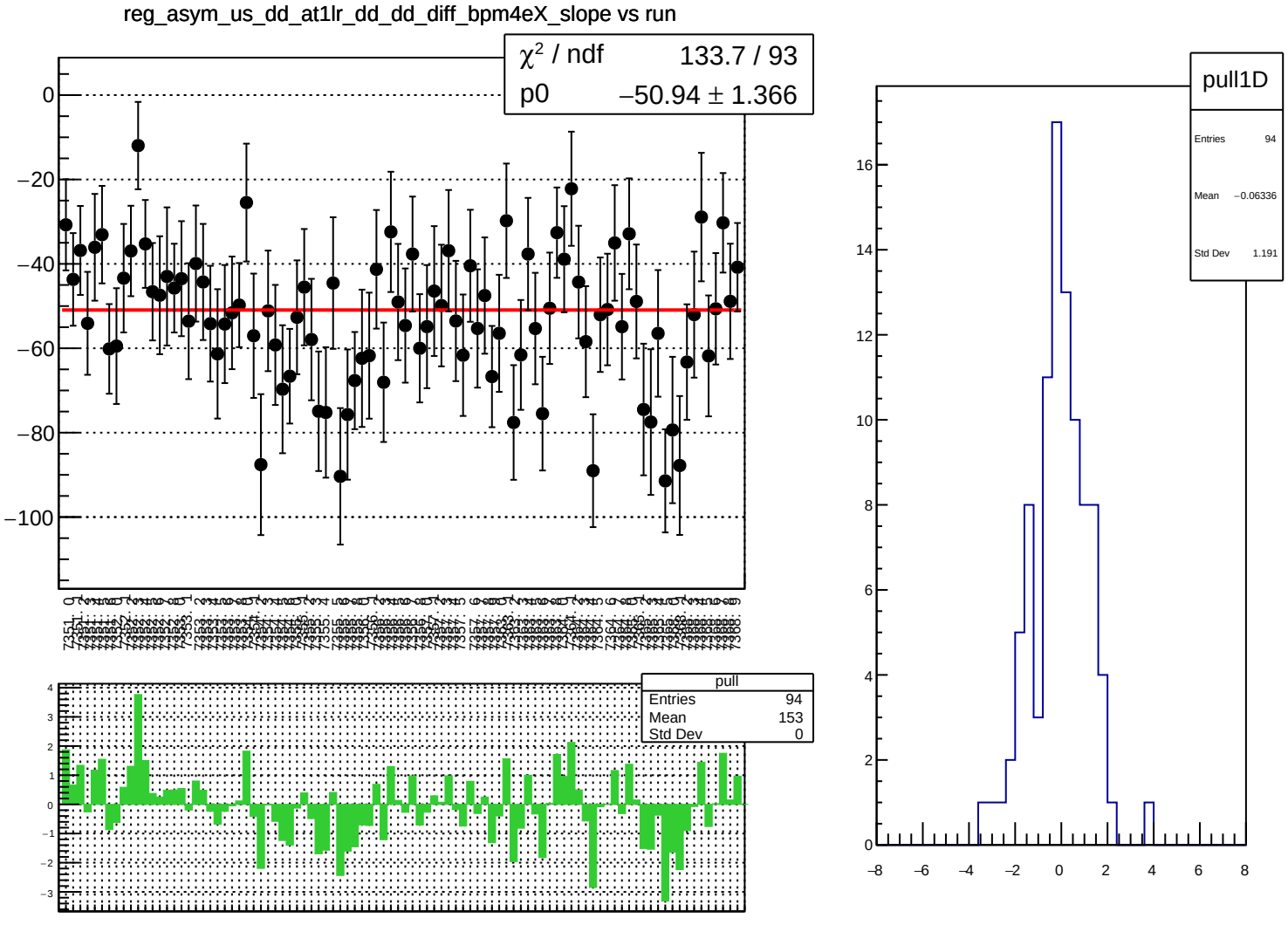

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 90.08 / 93
p0 −14.97 ± 1.545
pull
Entries 94
Mean 18.62
Std Dev 0
pull1D
Entries 94
Mean −0.013
Std Dev 0.9788

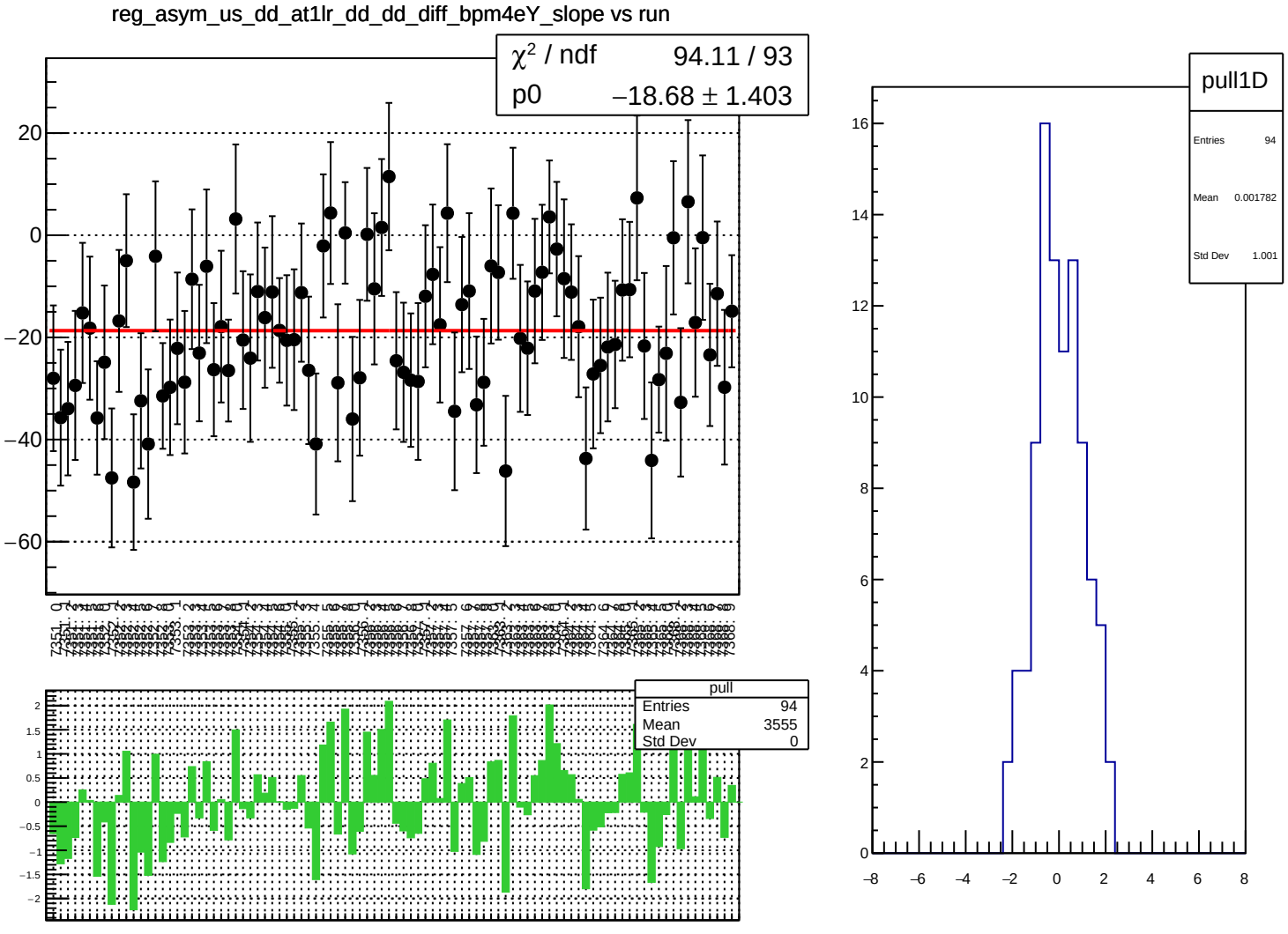

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 124.8 / 93
p0 −7.839 ± 1.587
pull
Entries 94
Mean 116.6
Std Dev 0
pull1D
Entries 94
Mean −0.009898
Std Dev 1.152

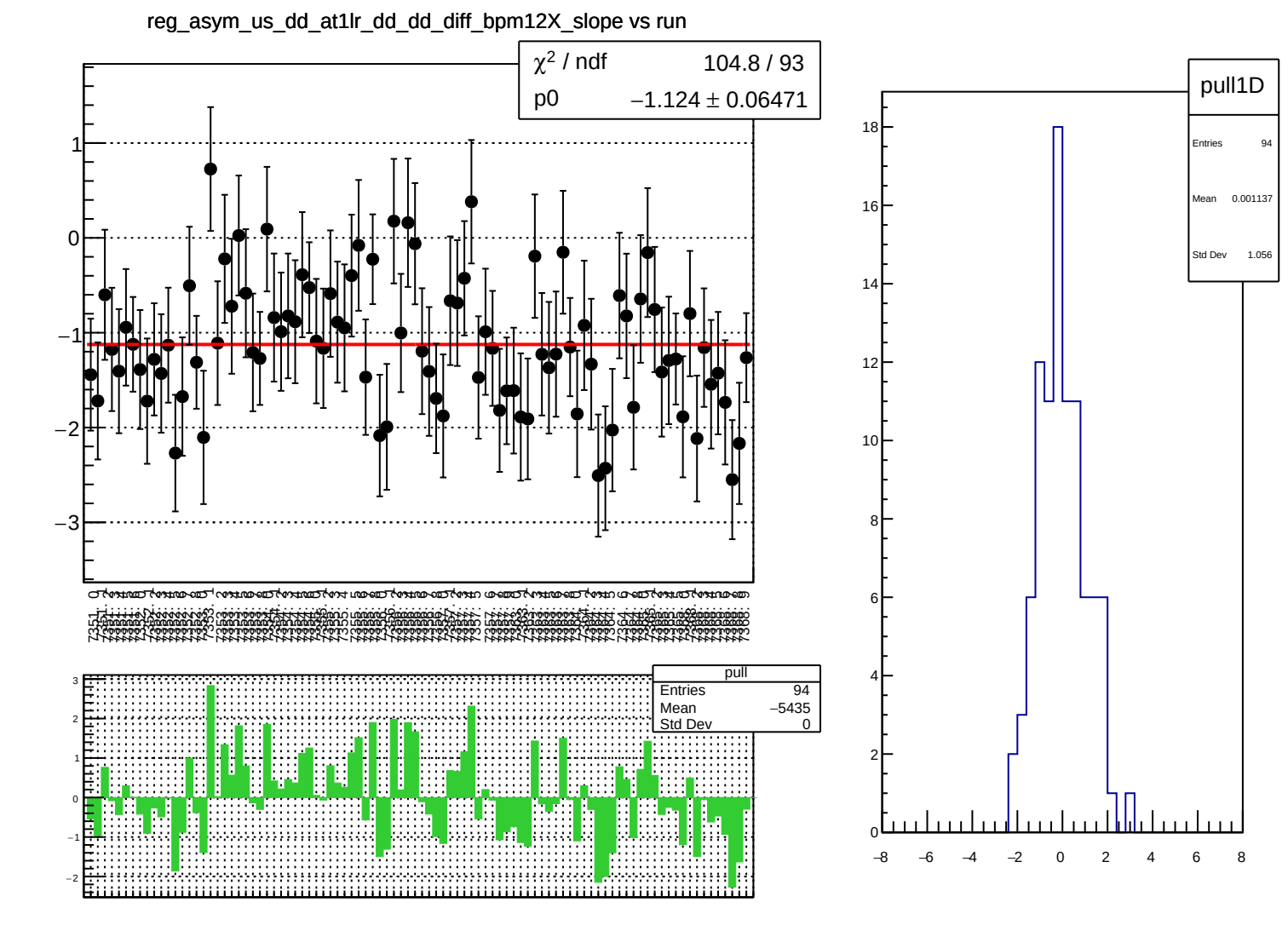

reg_asym_us_dd_at1lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 131.5 / 93
p0 0.9153 ± 0.07314
pull
Entries 94
Mean 1385
Std Dev 0
pull1D
Entries 94
Mean 0.005005
Std Dev 1.183

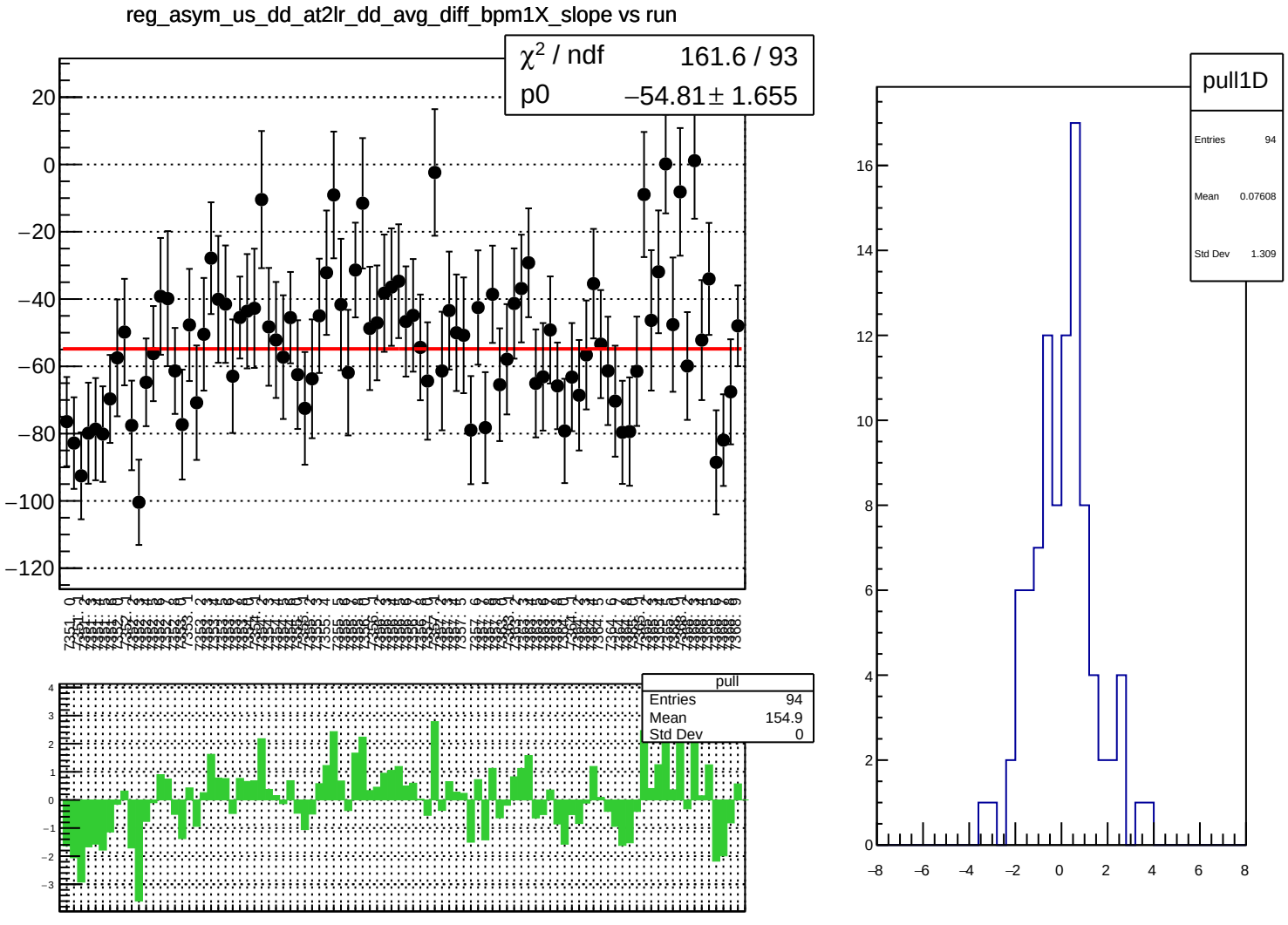

reg_asym_us_dd_at1lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 126.3 / 93
p0 −56.44 ± 1.376
0
−20
−40
−60
−80
−100
pull
Entries 94
Mean 176.3
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 94
Mean 0.05686
Std Dev 1.158
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

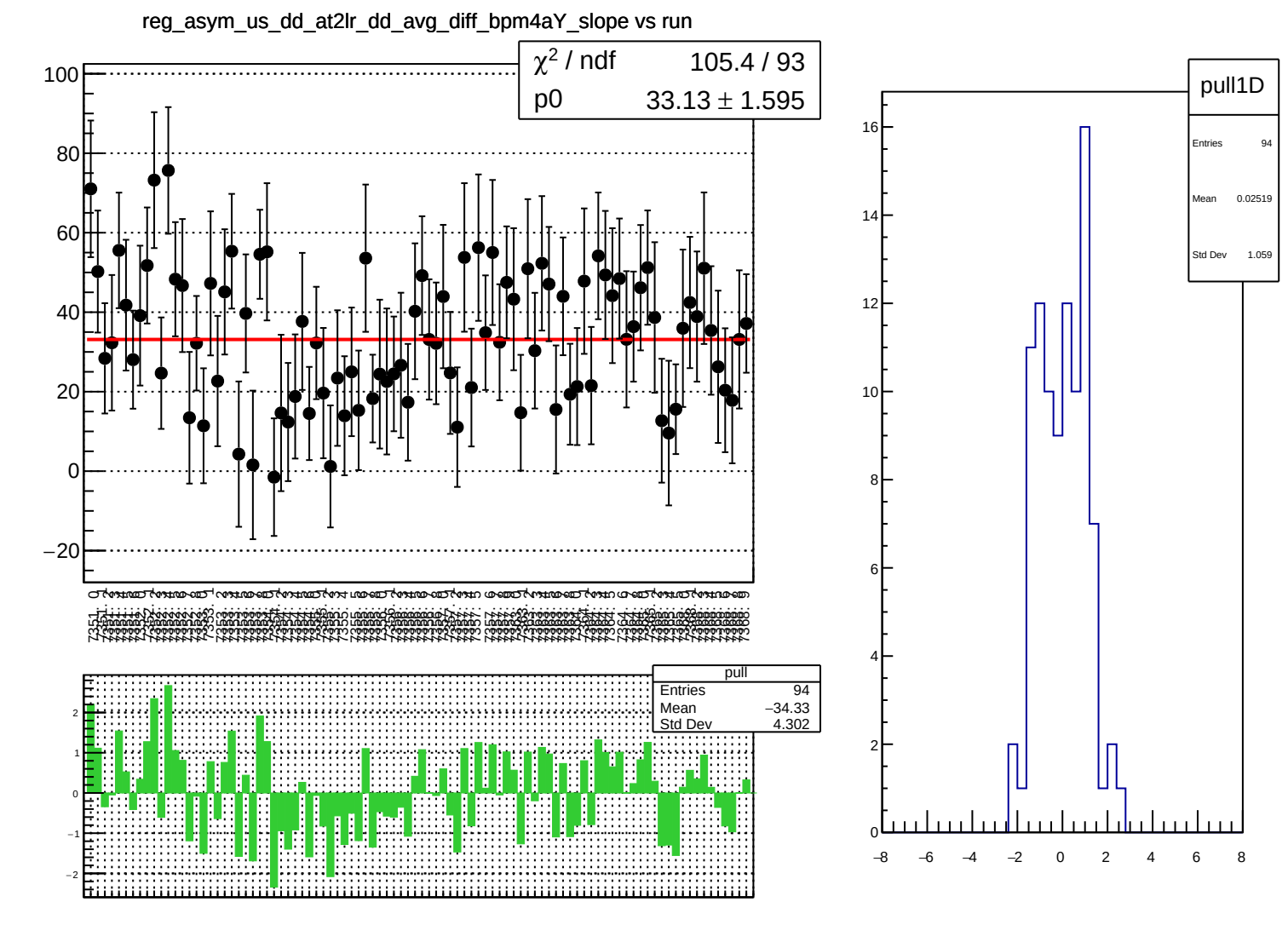

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 80.49 / 93
p0 18.11 ± 1.327
60
40
20
0
−20
pull
Entries 94
Mean 2362
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean −0.002283
Std Dev 0.9253
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

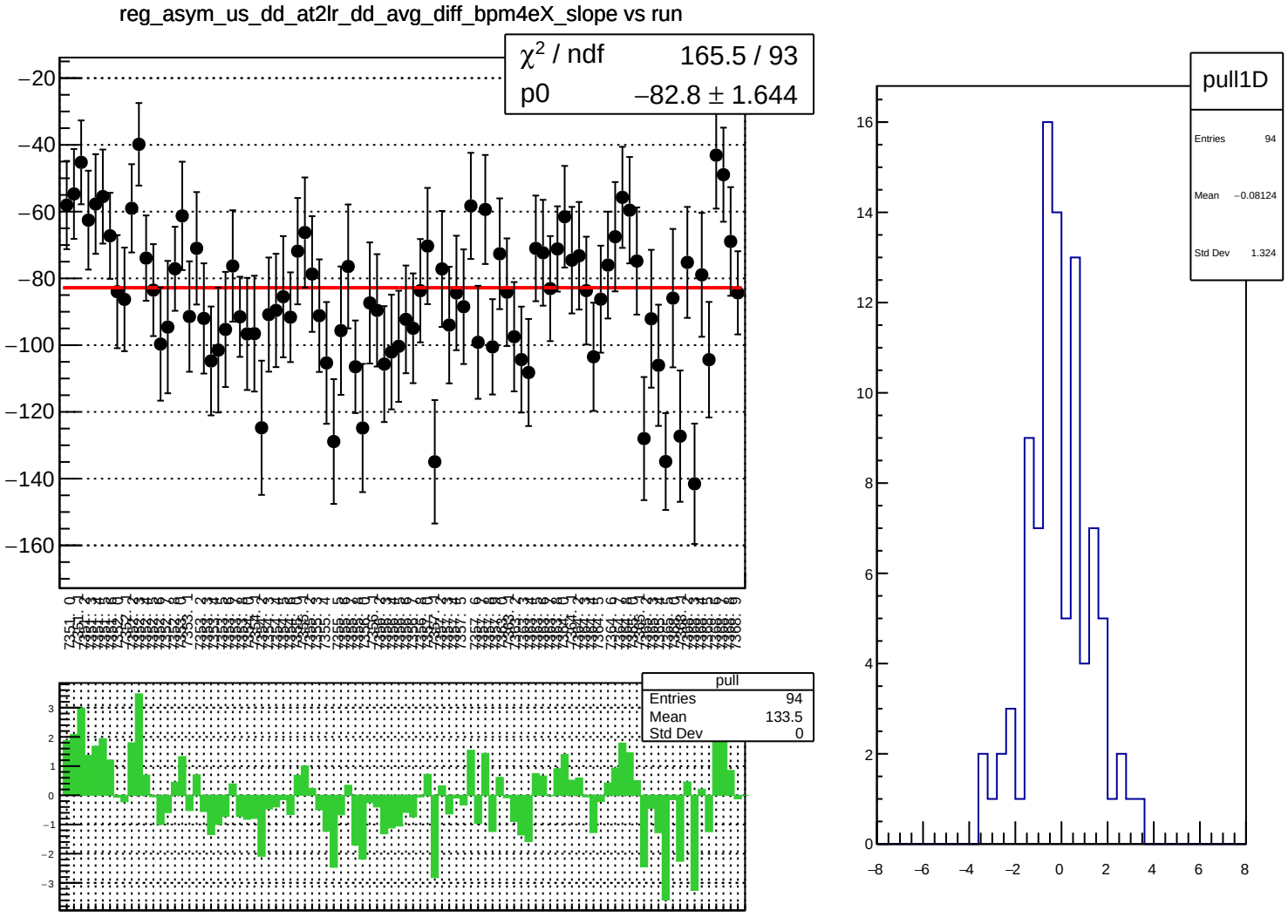

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 133.7 / 93
p0 −50.94 ± 1.366
0
−20
−40
−60
−80
−100
pull
Entries 94
Mean 153
Std Dev 0
4
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.06336
Std Dev 1.191
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

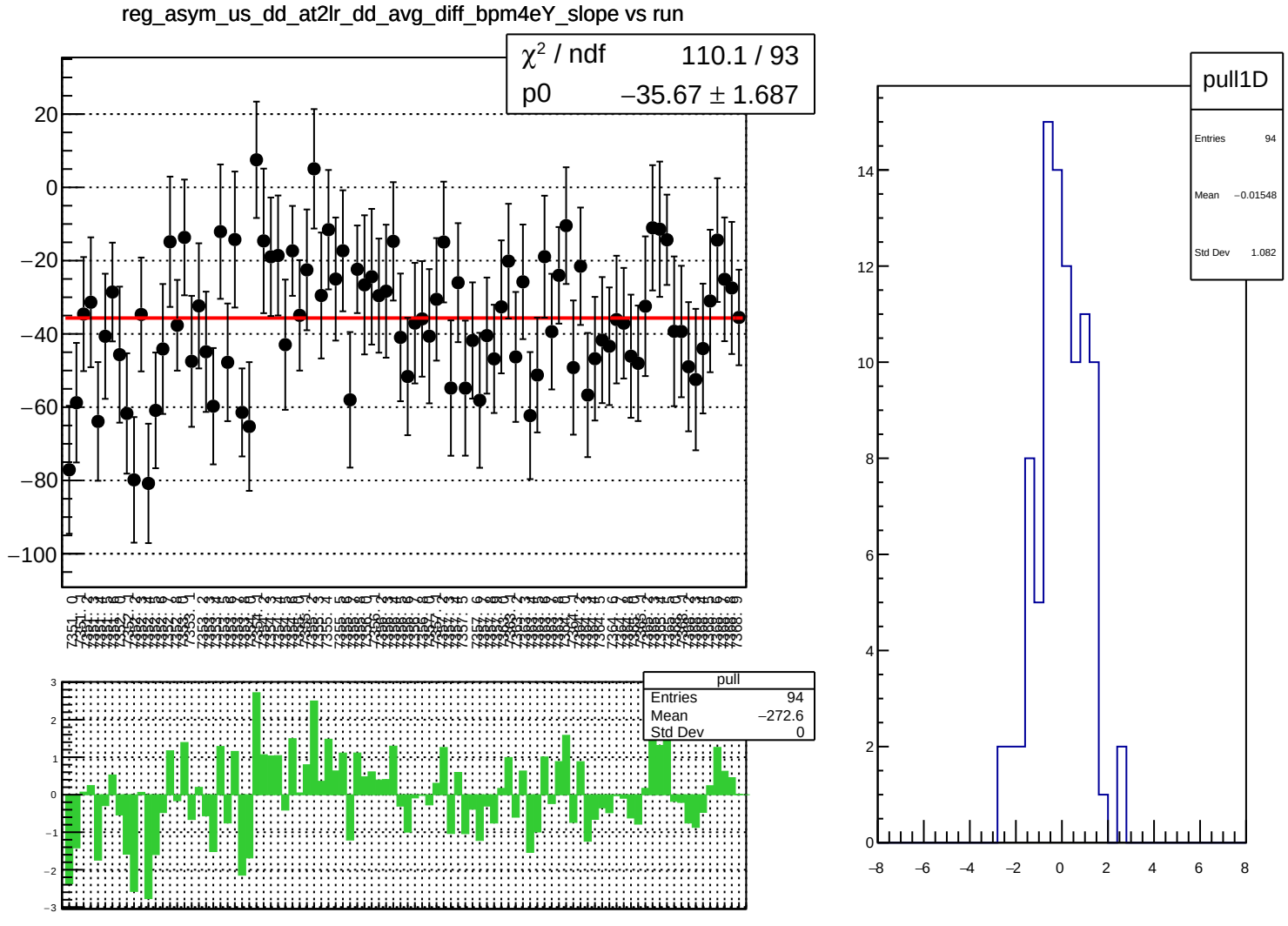

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 94.11 / 93
p0 −18.68 ± 1.403
pull
Entries 94
Mean 3555
Std Dev 0
pull1D
Entries 94
Mean 0.001782
Std Dev 1.001

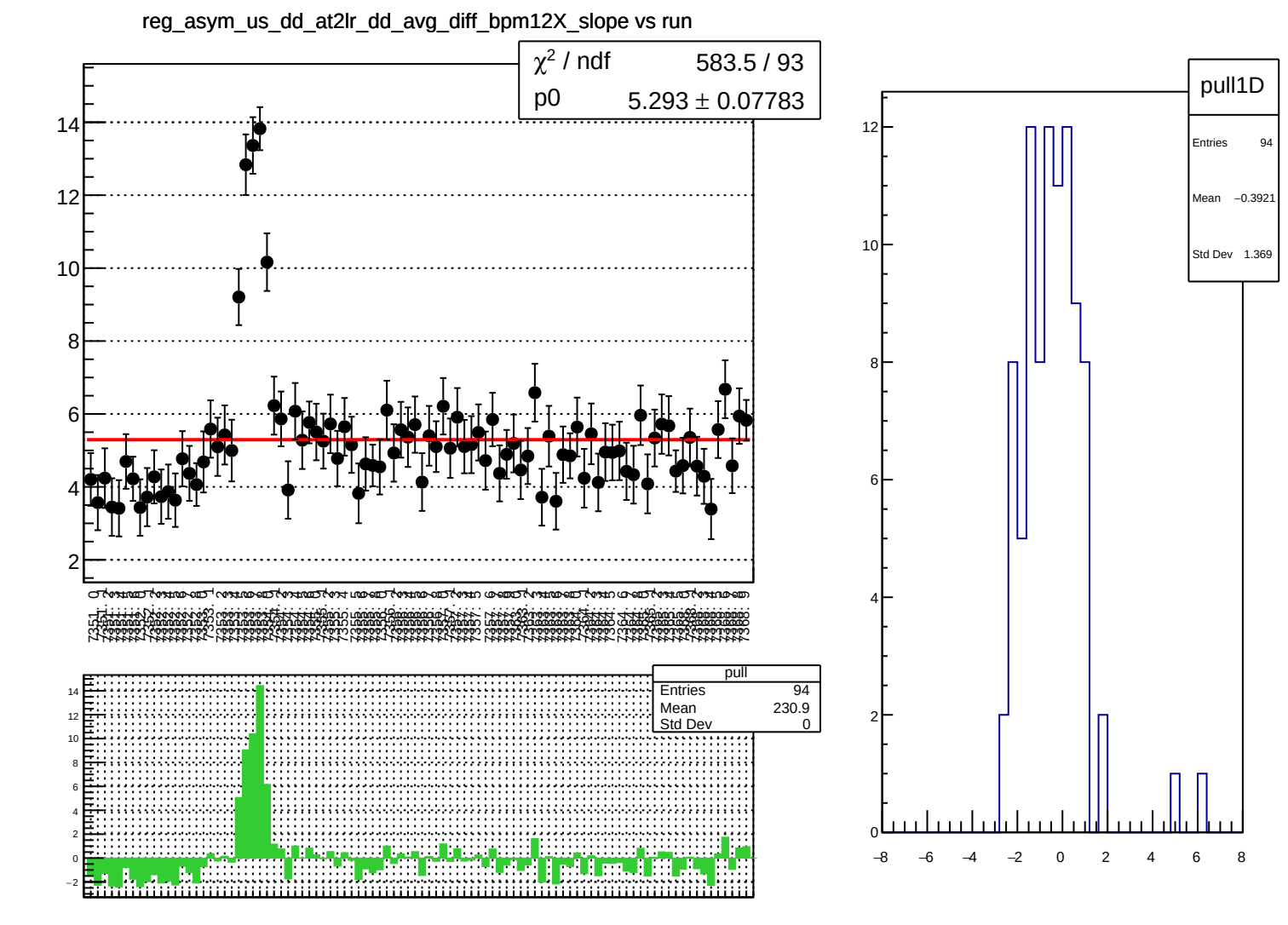

reg_asym_us_dd_at1lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 104.8 / 93
p0 −1.124 ± 0.06471
pull
Entries 94
Mean −5435
Std Dev 0
pull1D
Entries 94
Mean 0.001137
Std Dev 1.056

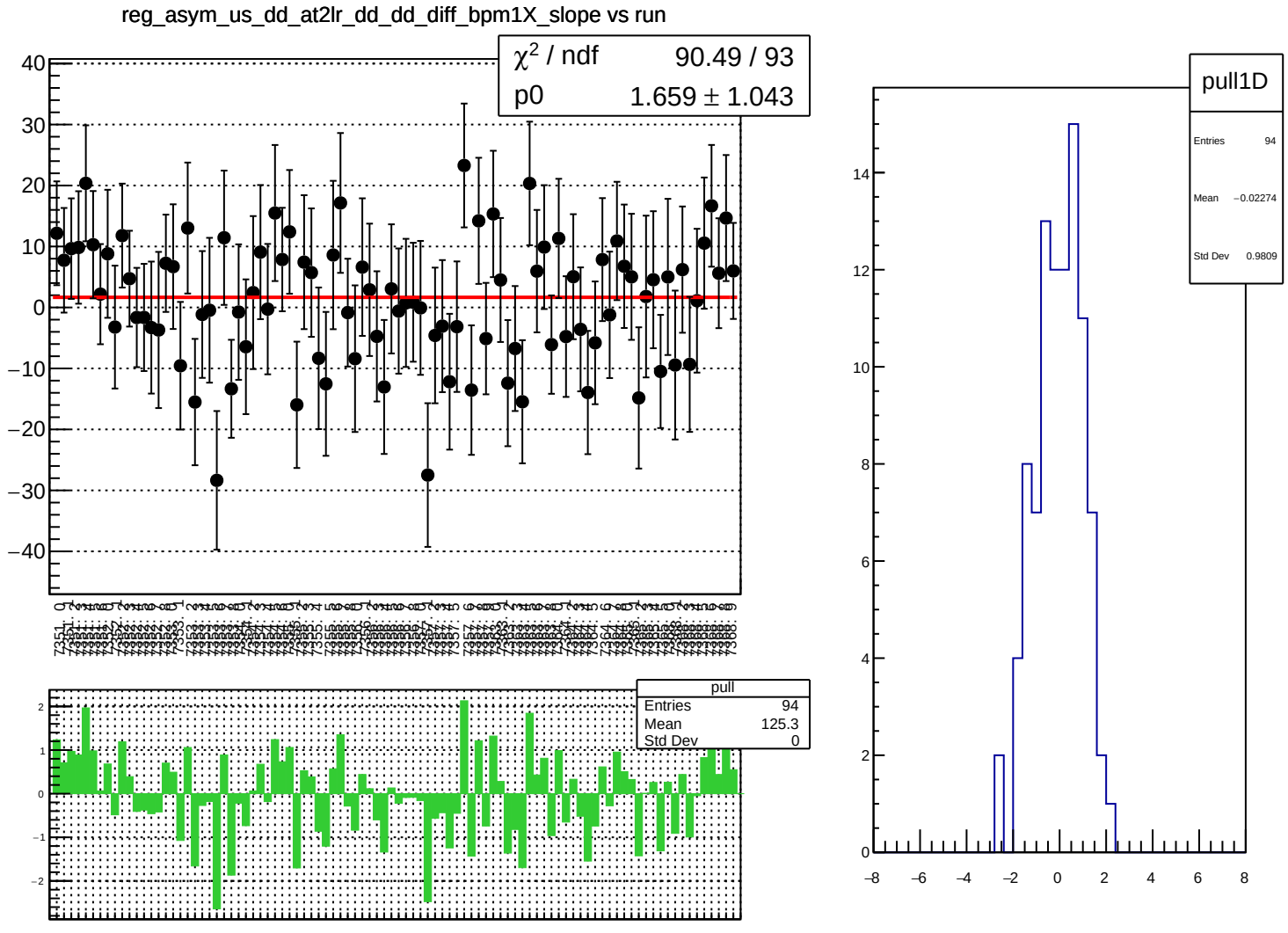

reg_asym_us_dd_at2lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 161.6 / 93
p0 −54.81 ± 1.655
20
0
−20
−40
−60
−80
−100
−120
pull
Entries 94
Mean 154.9
Std Dev 0
4
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.07608
Std Dev 1.309
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

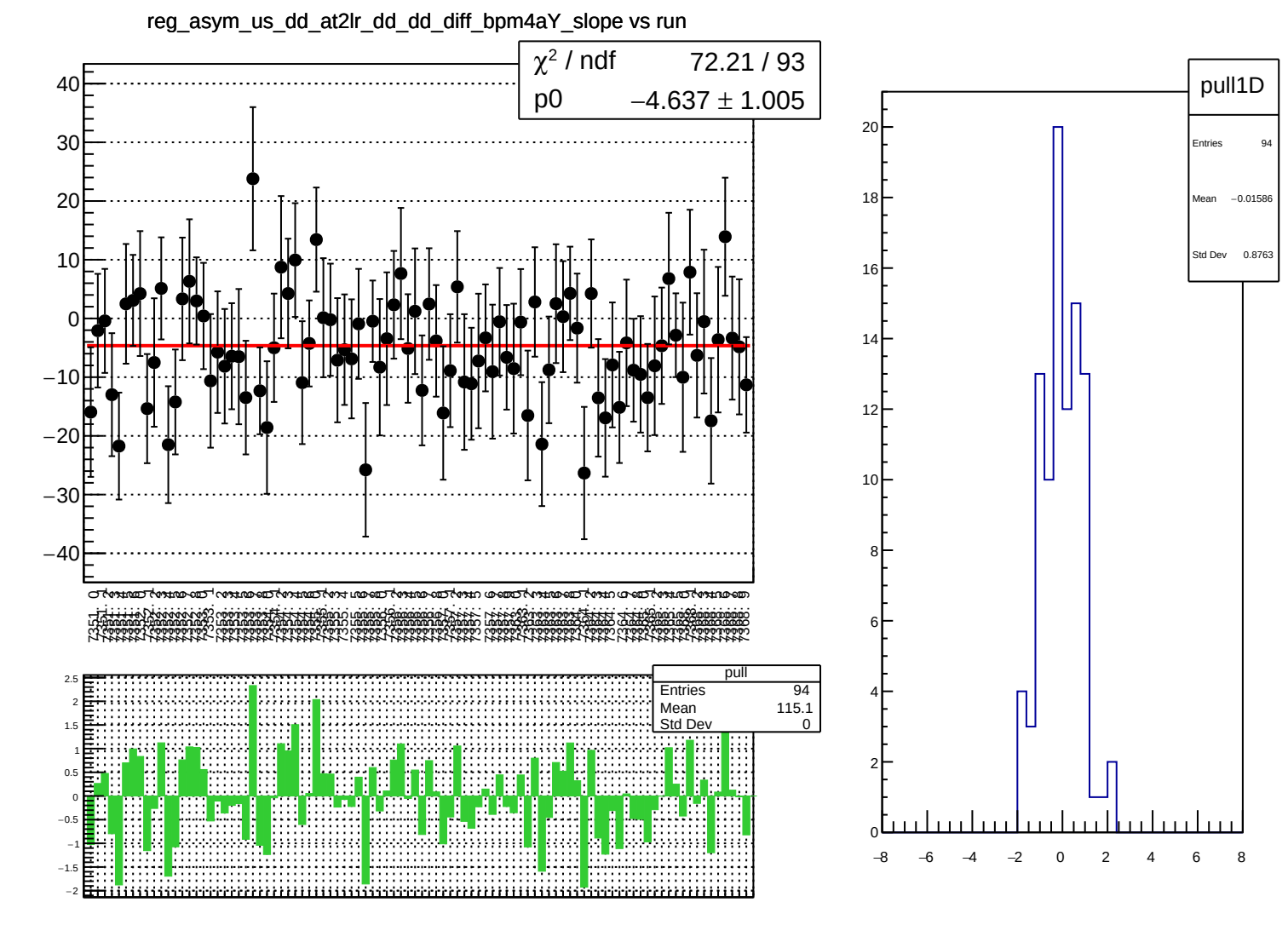

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 105.4 / 93
p0 33.13 ± 1.595
pull
Entries 94
Mean −34.33
Std Dev 4.302
pull1D
Entries 94
Mean 0.02519
Std Dev 1.059

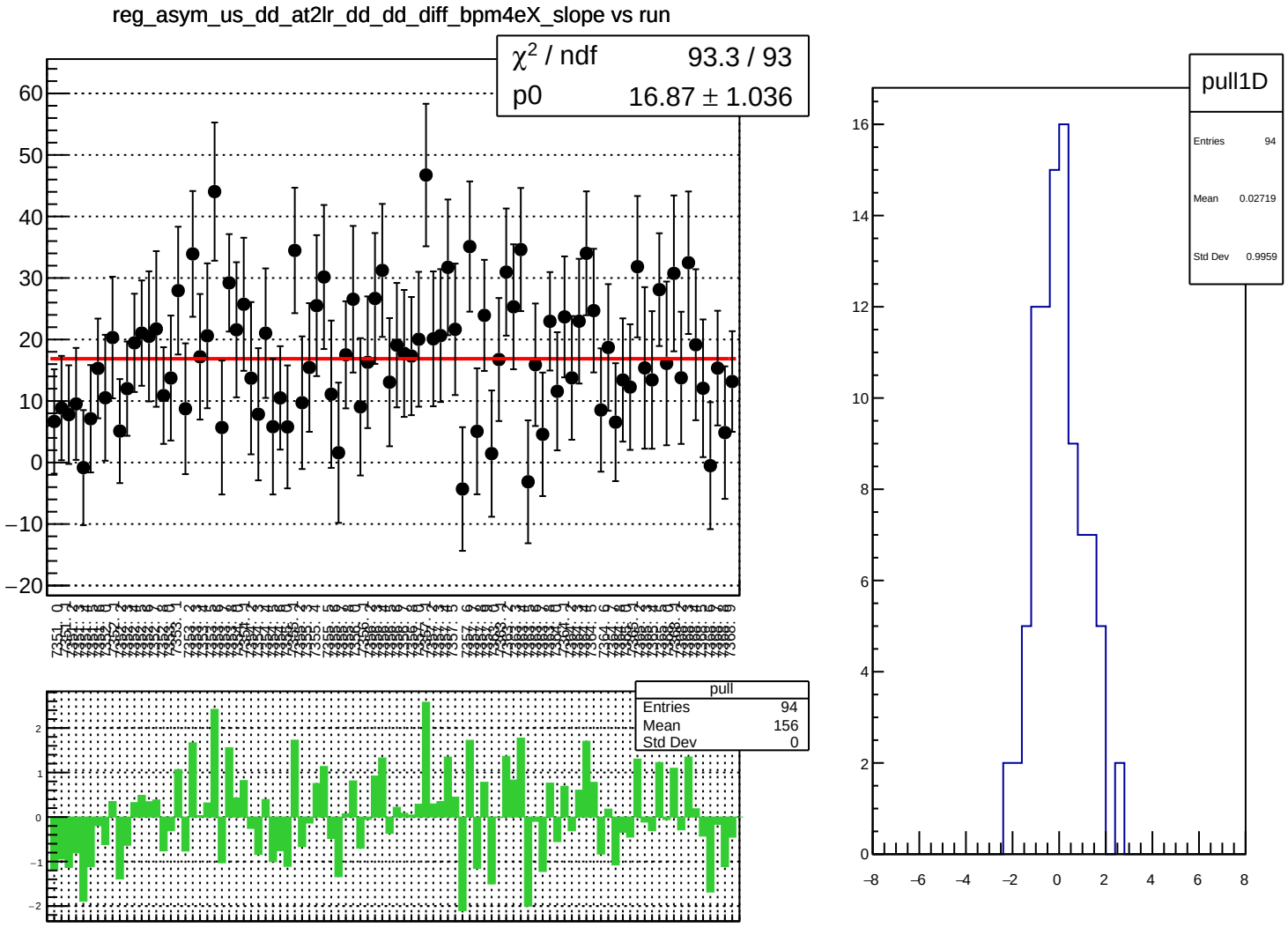

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 165.5 / 93
p0 −82.8 ± 1.644
−20
−40
−60
−80
−100
−120
−140
−160
pull
Entries 94
Mean 133.5
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.08124
Std Dev 1.324
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

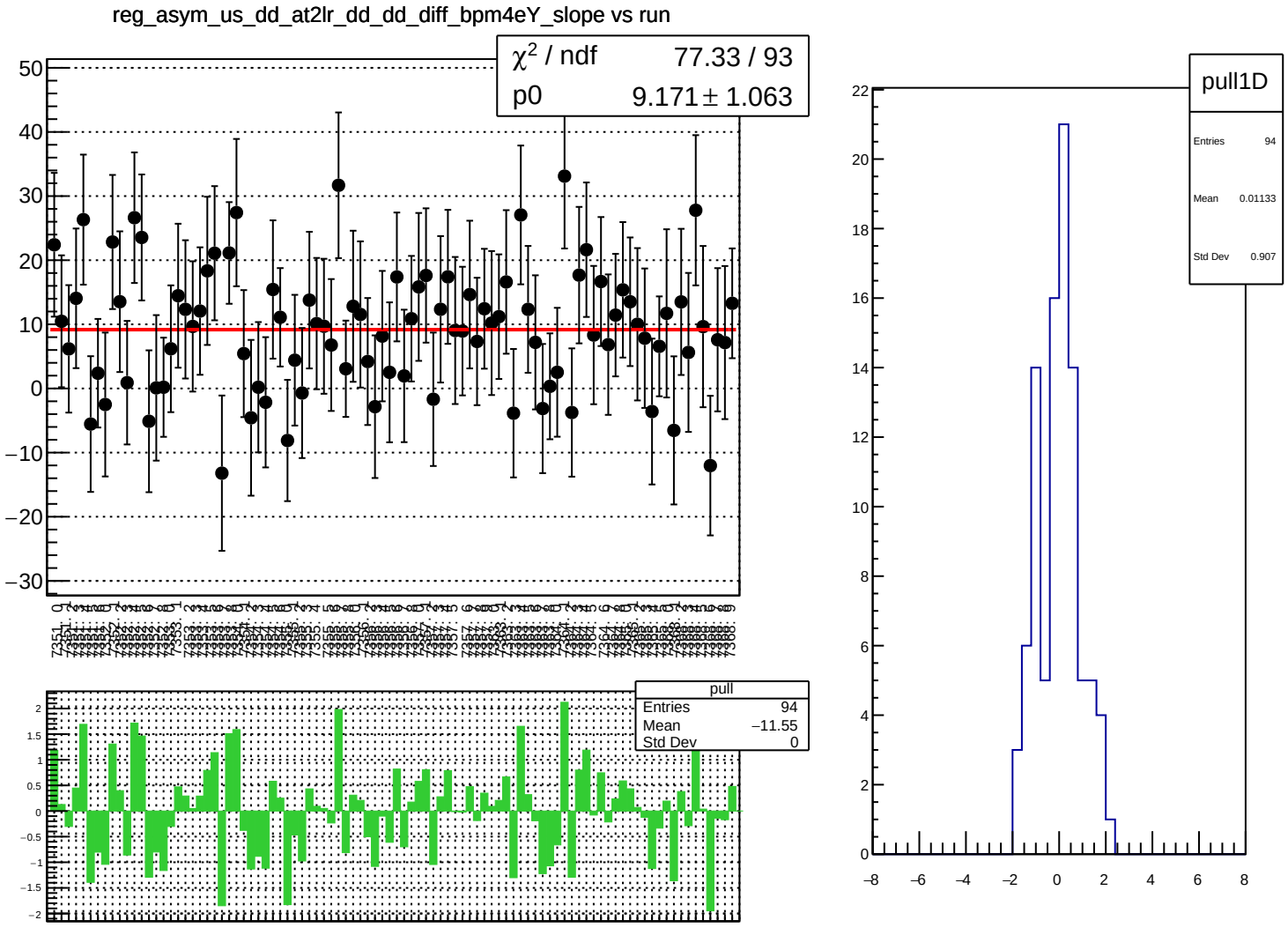

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 110.1 / 93
p0 −35.67 ± 1.687
20
0
−20
−40
−60
−80
−100
pull
Entries 94
Mean −272.6
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.01548
Std Dev 1.082
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

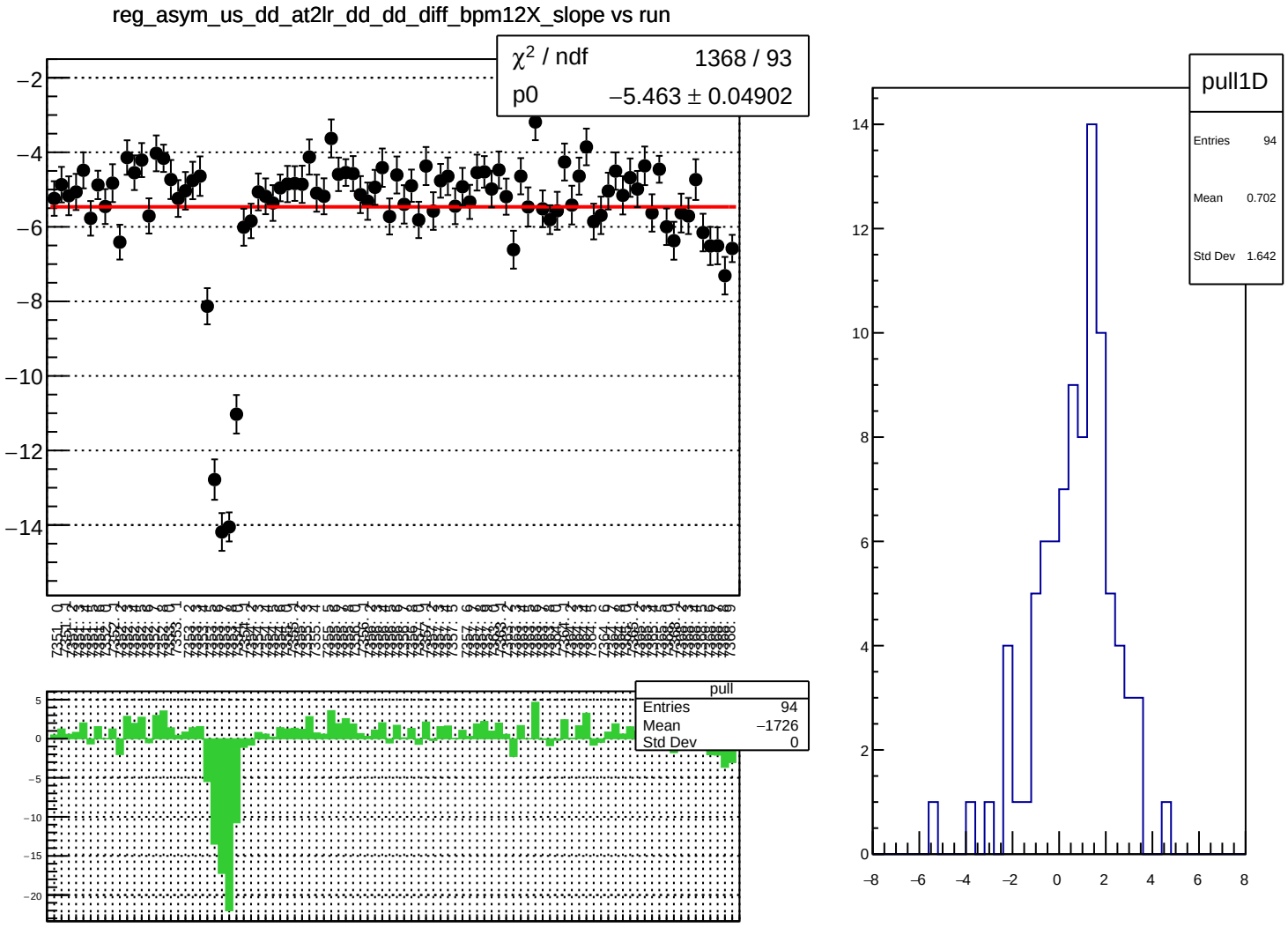

reg_asym_us_dd_at2lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 583.5 / 93
p0 5.293 ± 0.07783
pull
Entries 94
Mean 230.9
Std Dev 0
pull1D
Entries 94
Mean −0.3921
Std Dev 1.369

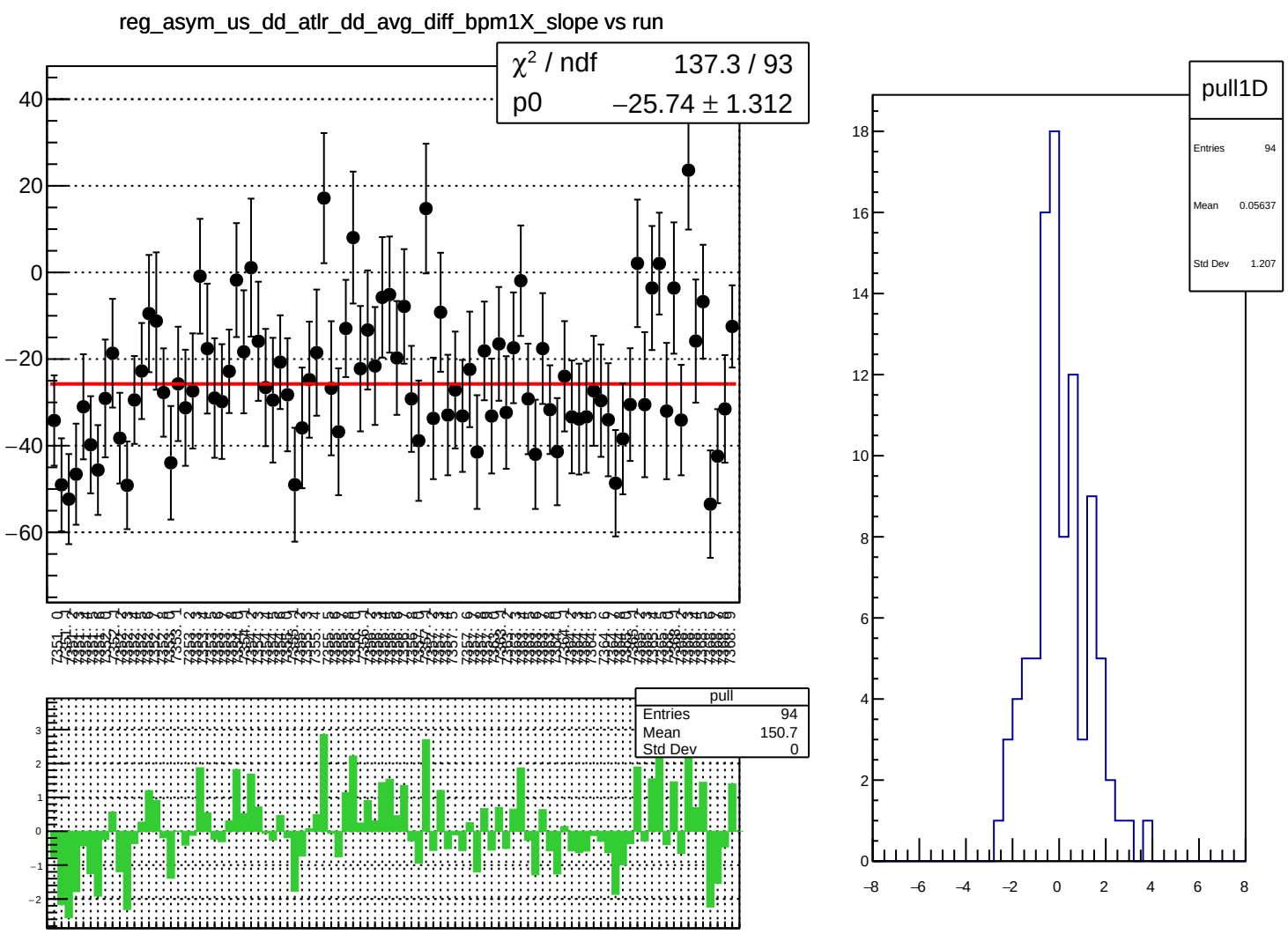

reg_asym_us_dd_at2lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 90.49 / 93
p0 1.659 ± 1.043
pull
Entries 94
Mean 125.3
Std Dev 0
pull1D
Entries 94
Mean −0.02274
Std Dev 0.9809

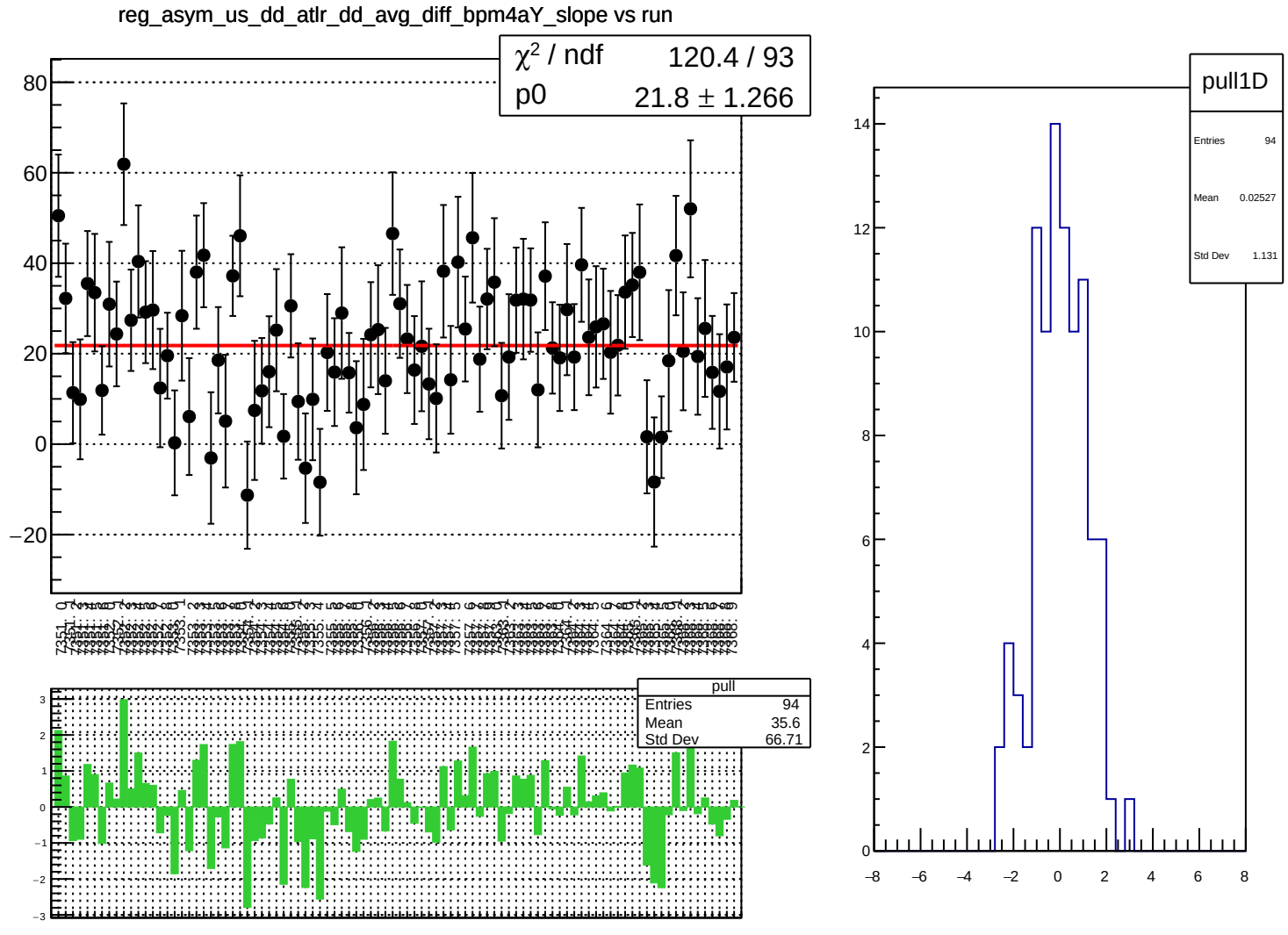

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 72.21 / 93
p0 −4.637 ± 1.005
pull
Entries 94
Mean 115.1
Std Dev 0
pull1D
Entries 94
Mean −0.01586
Std Dev 0.8763

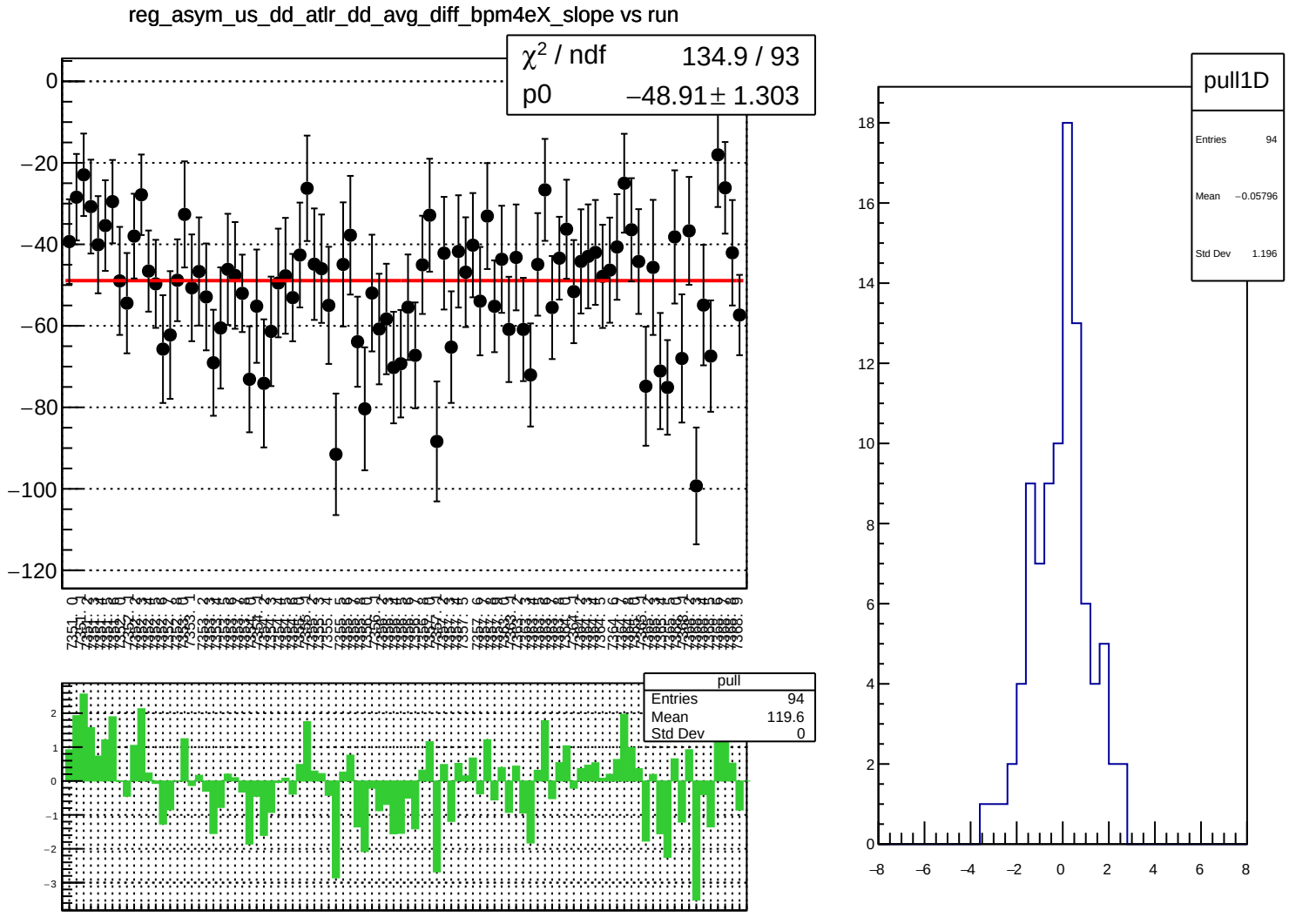

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 93.3 / 93
p0 16.87 ± 1.036
pull
Entries 94
Mean 156
Std Dev 0
pull1D
Entries 94
Mean 0.02719
Std Dev 0.9959

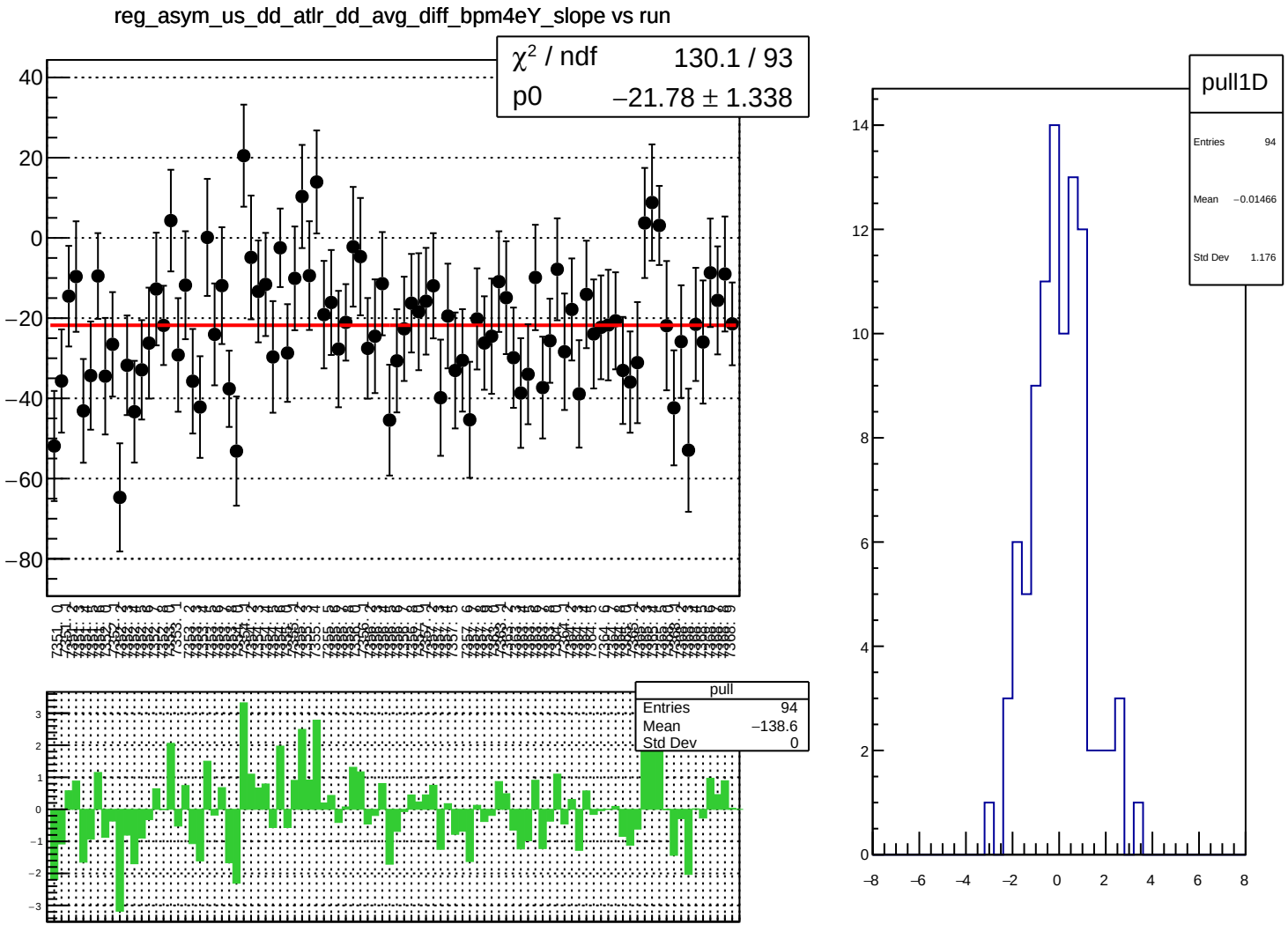

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 77.33 / 93
p0 9.171 ± 1.063
pull
Entries 94
Mean −11.55
Std Dev 0
pull1D
Entries 94
Mean 0.01133
Std Dev 0.907

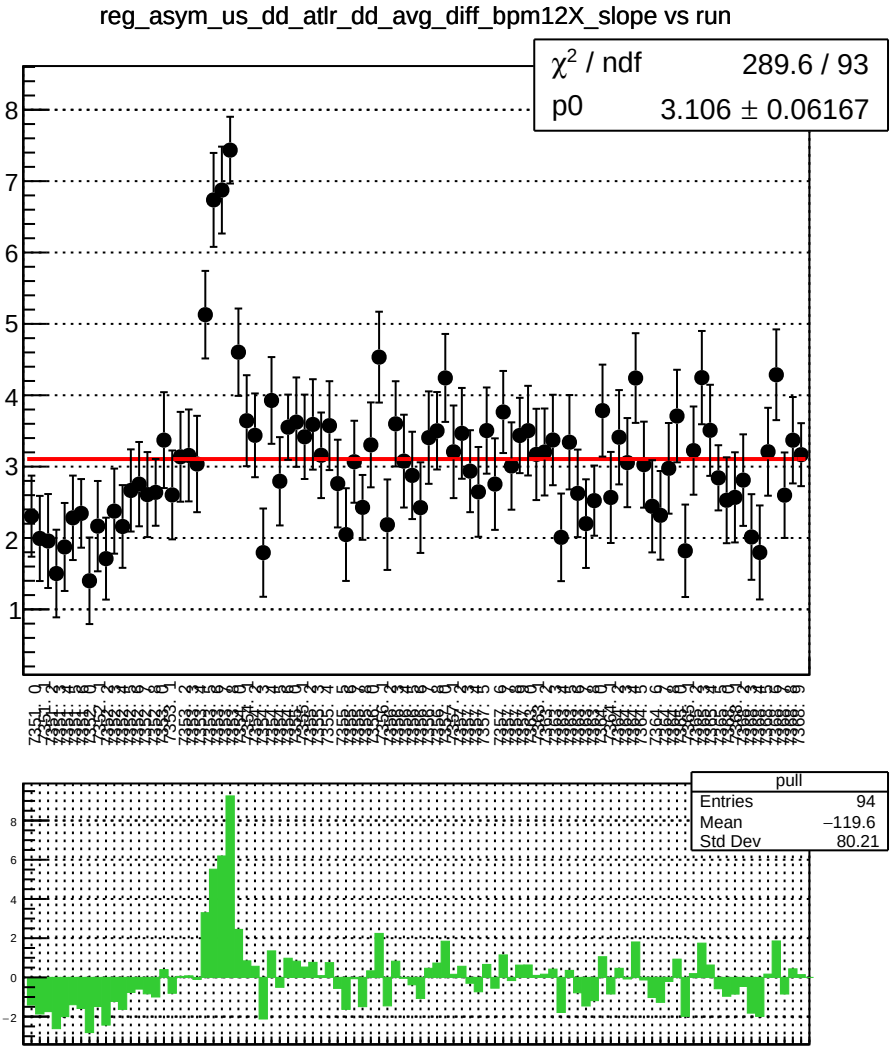

reg_asym_us_dd_at2lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 1368 / 93
p0 −5.463 ± 0.04902
pull
Entries 94
Mean −1726
Std Dev 0
pull1D
Entries 94
Mean 0.702
Std Dev 1.642

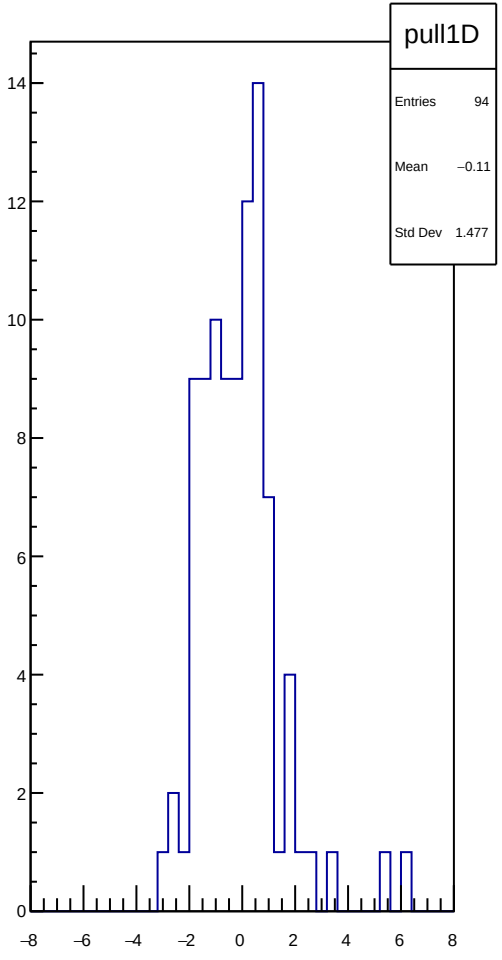

reg_asym_us_dd_atlr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 137.3 / 93
p0 −25.74 ± 1.312
40
20
0
−20
−40
−60
pull
Entries 94
Mean 150.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.05637
Std Dev 1.207
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

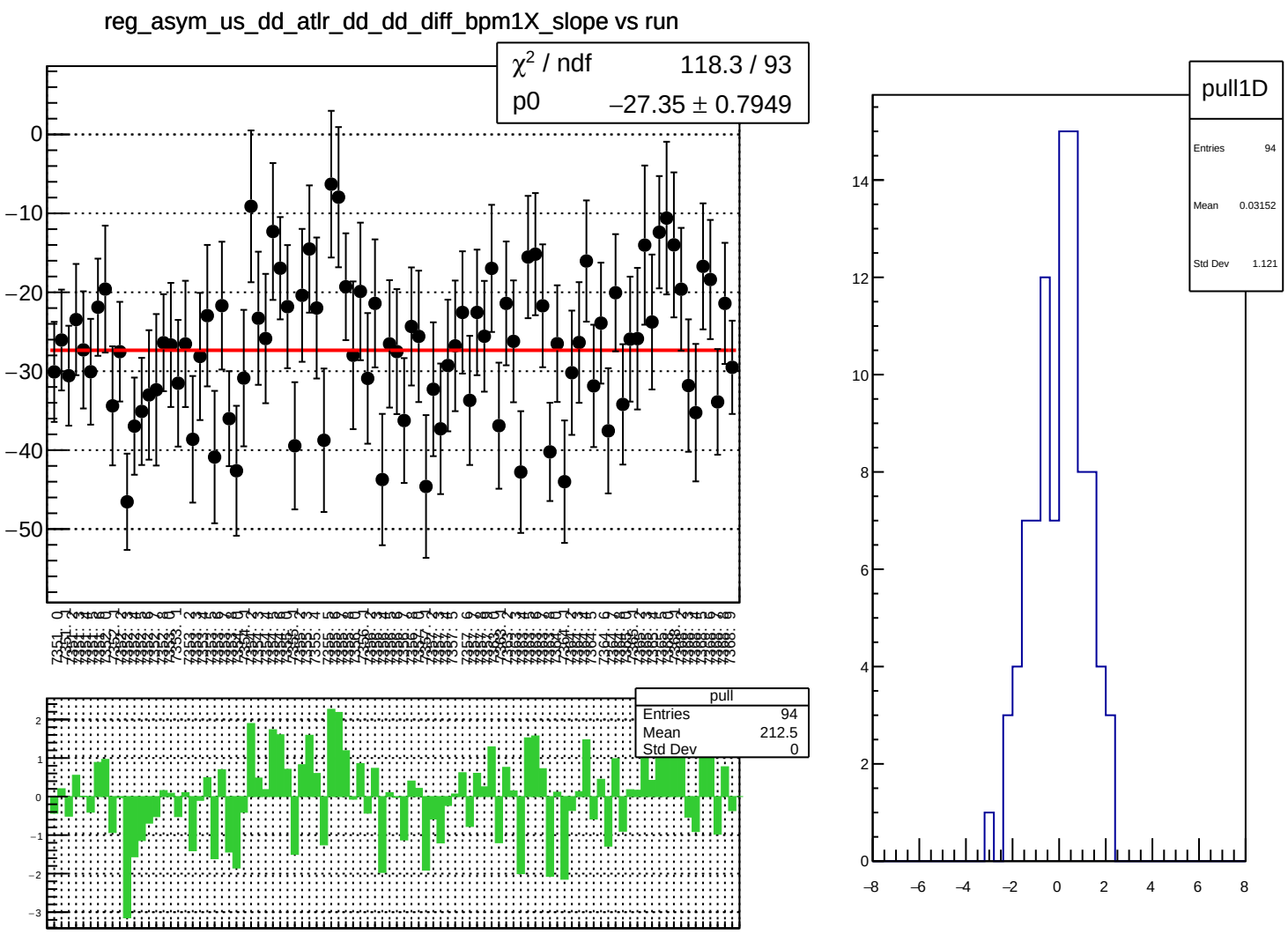

reg_asym_us_dd_atlr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 120.4 / 93
p0 21.8 ± 1.266
pull
Entries 94
Mean 35.6
Std Dev 66.71
pull1D
Entries 94
Mean 0.02527
Std Dev 1.131

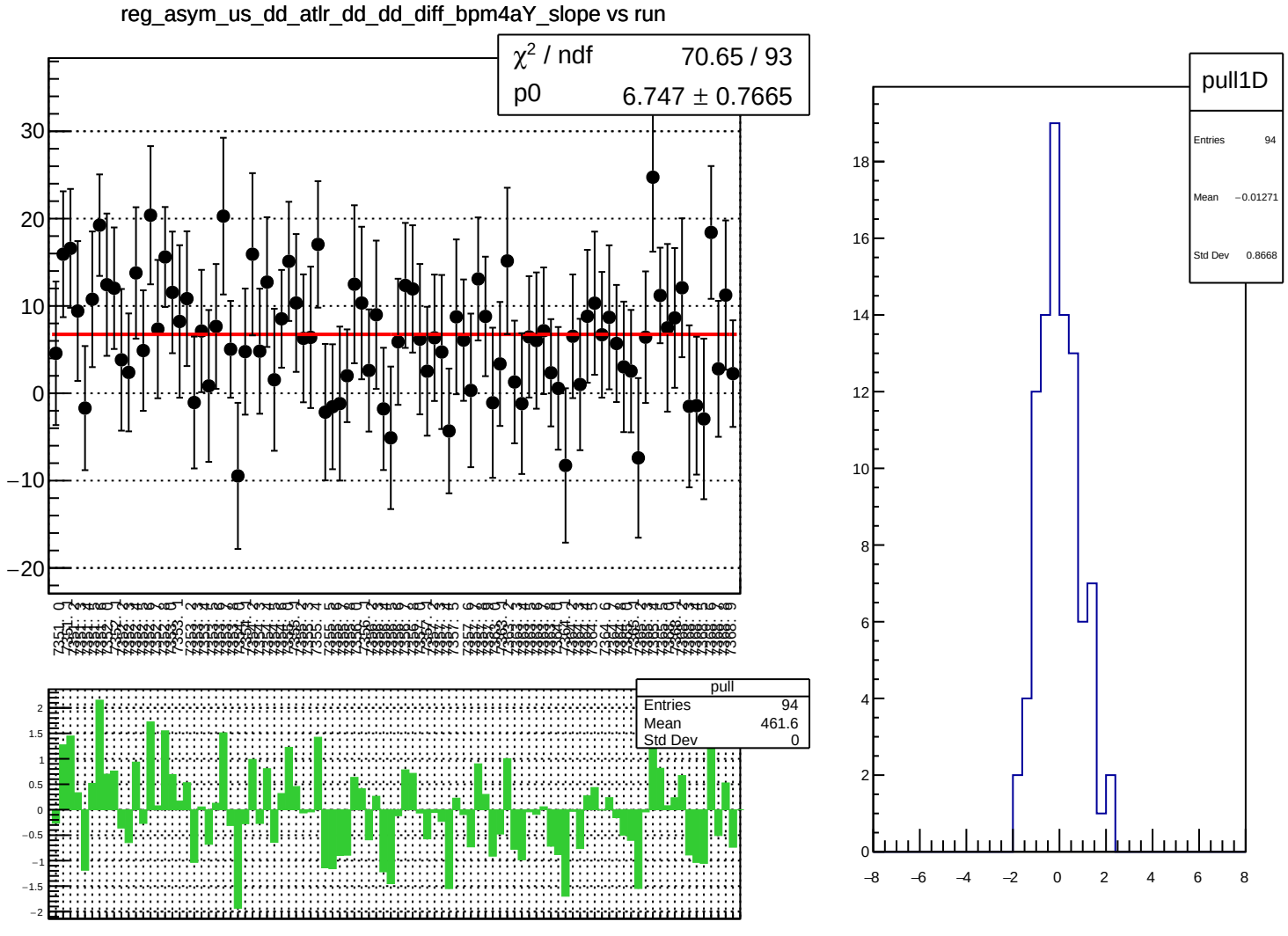

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 134.9 / 93
p0 −48.91 ± 1.303
0
−20
−40
−60
−80
−100
−120
pull
Entries 94
Mean 119.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.05796
Std Dev 1.196
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

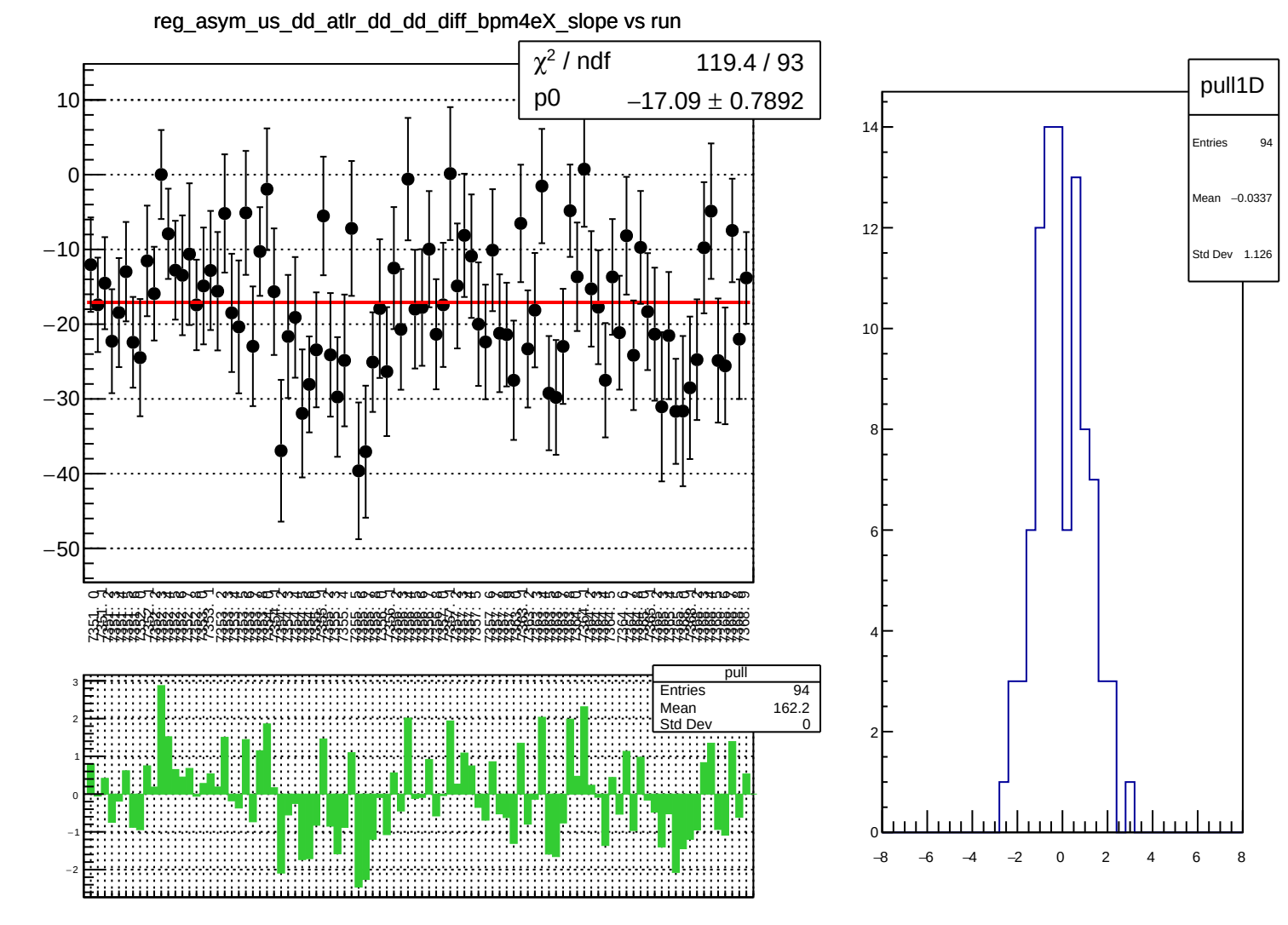

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 130.1 / 93
p0 −21.78 ± 1.338
pull
Entries 94
Mean −138.6
Std Dev 0
pull1D
Entries 94
Mean −0.01466
Std Dev 1.176

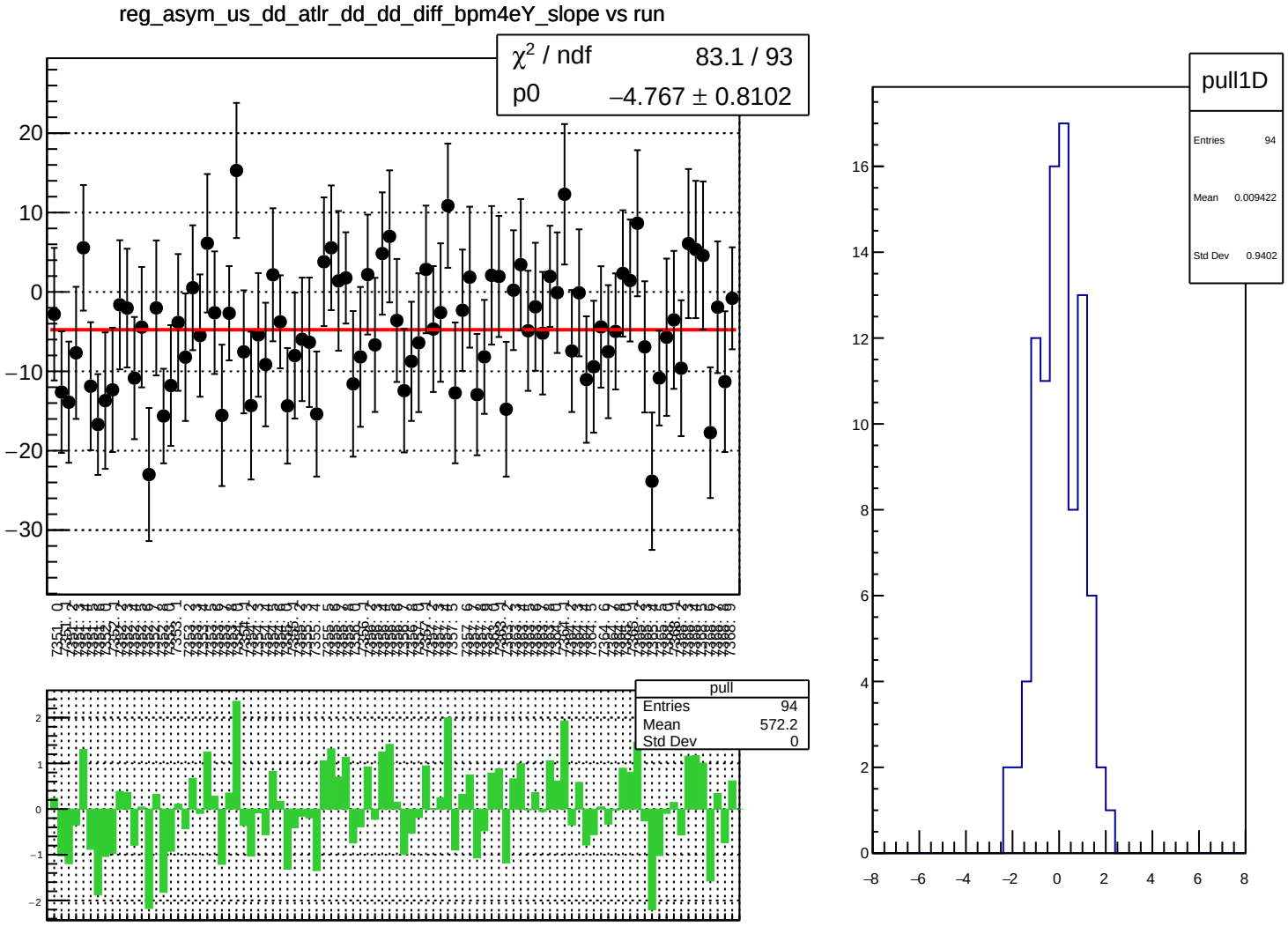

reg_asym_us_dd_atlr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 289.6 / 93
p0 3.106 ± 0.06167
pull
Entries 94
Mean −119.6
Std Dev 80.21

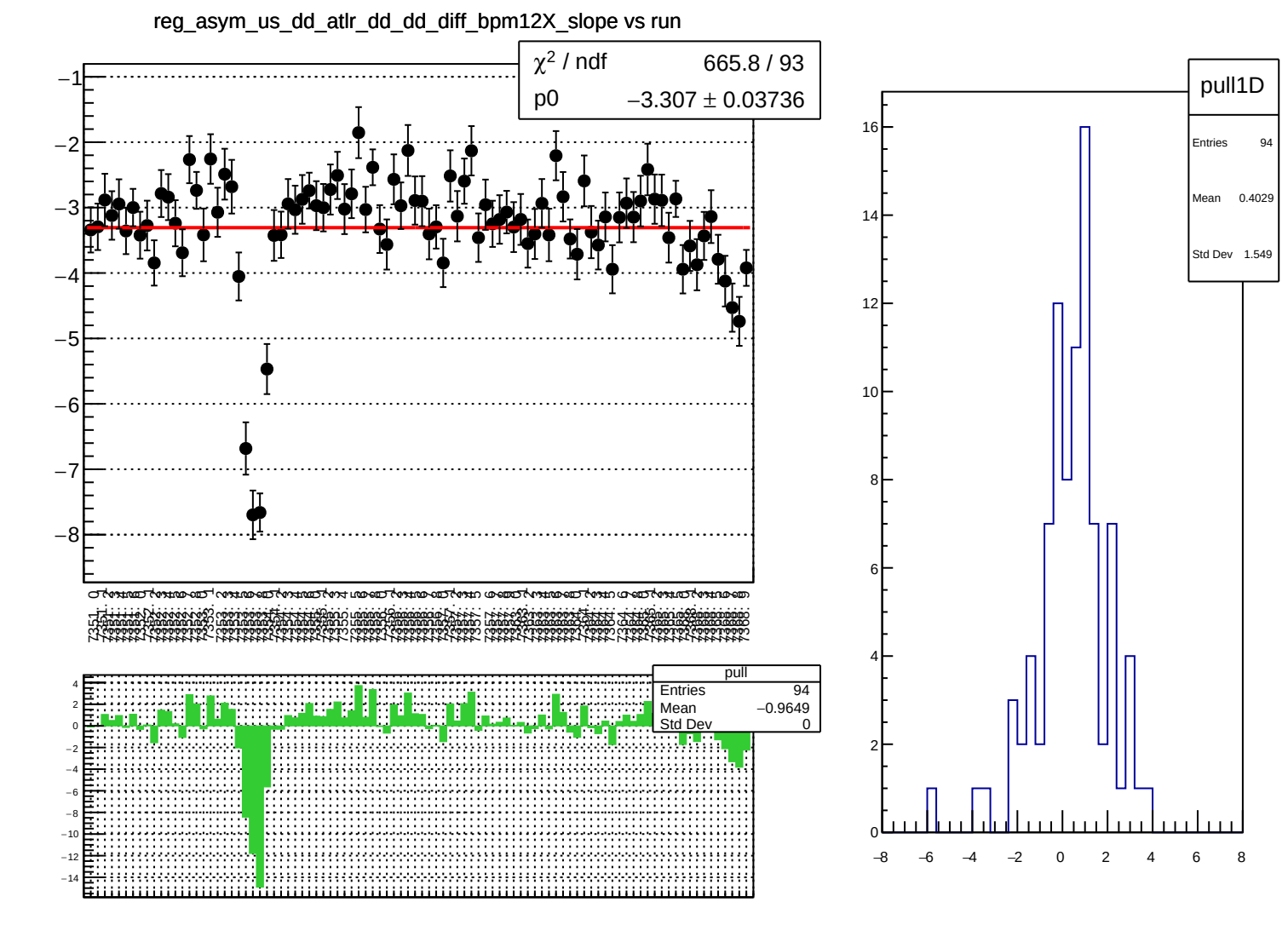

pull1D
Entries 94
Mean −0.11
Std Dev 1.477

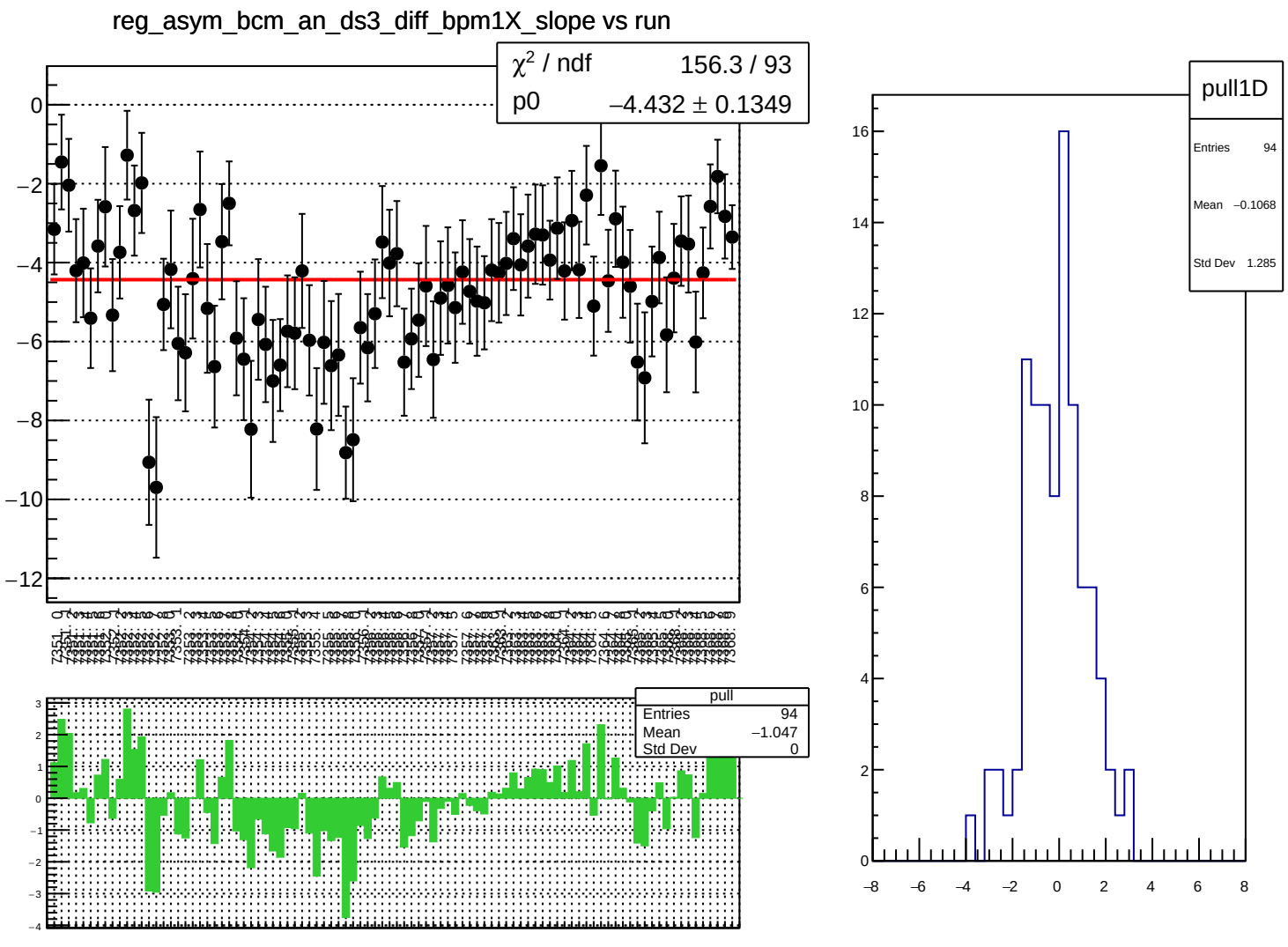

reg_asym_us_dd_atlr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 118.3 / 93
p0 −27.35 ± 0.7949
0
−10
−20
−30
−40
−50
pull
Entries 94
Mean 212.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.03152
Std Dev 1.121
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

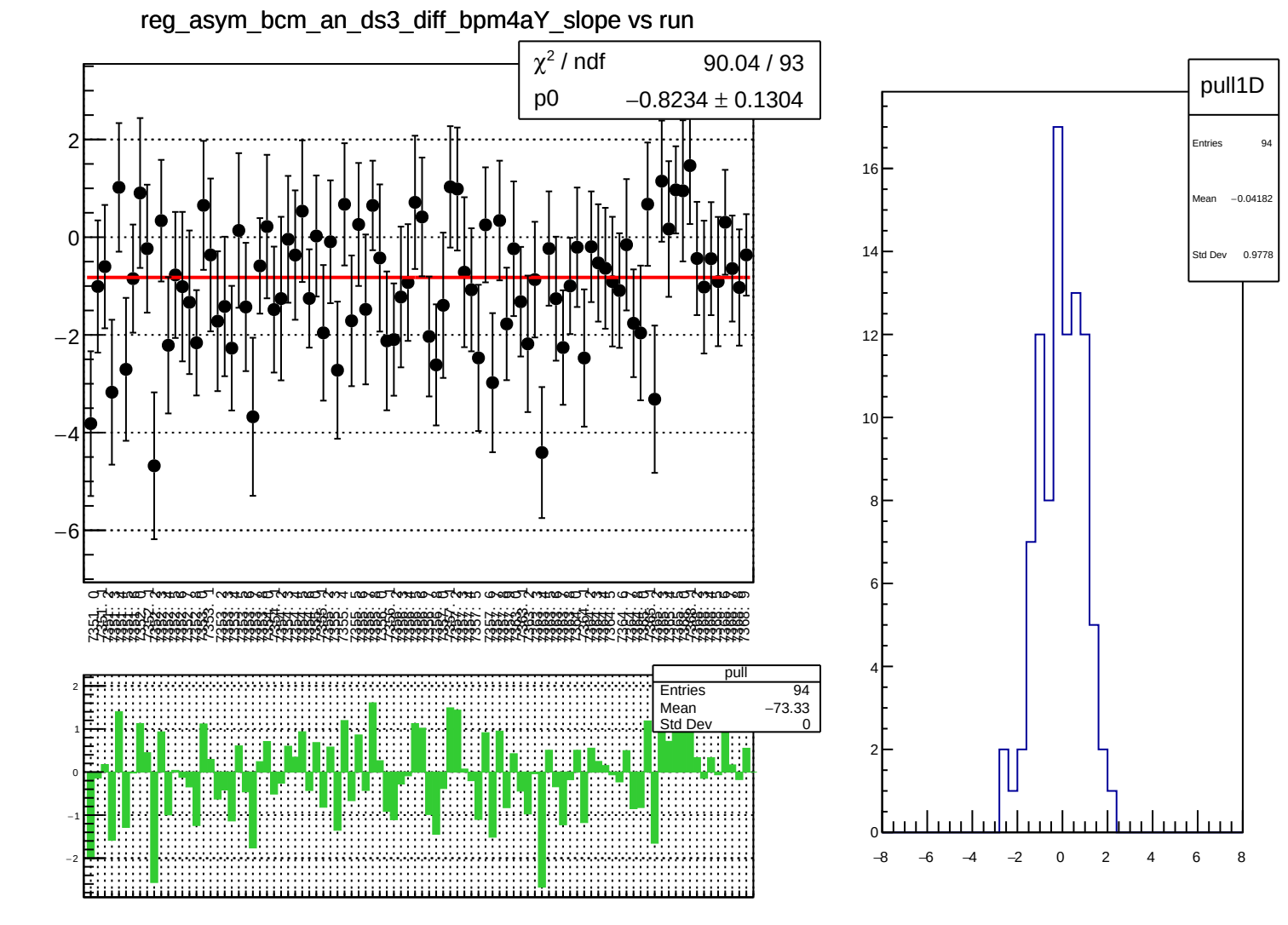

reg_asym_us_dd_atlr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 70.65 / 93
p0 6.747 ± 0.7665
pull
Entries 94
Mean 461.6
Std Dev 0
pull1D
Entries 94
Mean −0.01271
Std Dev 0.8668

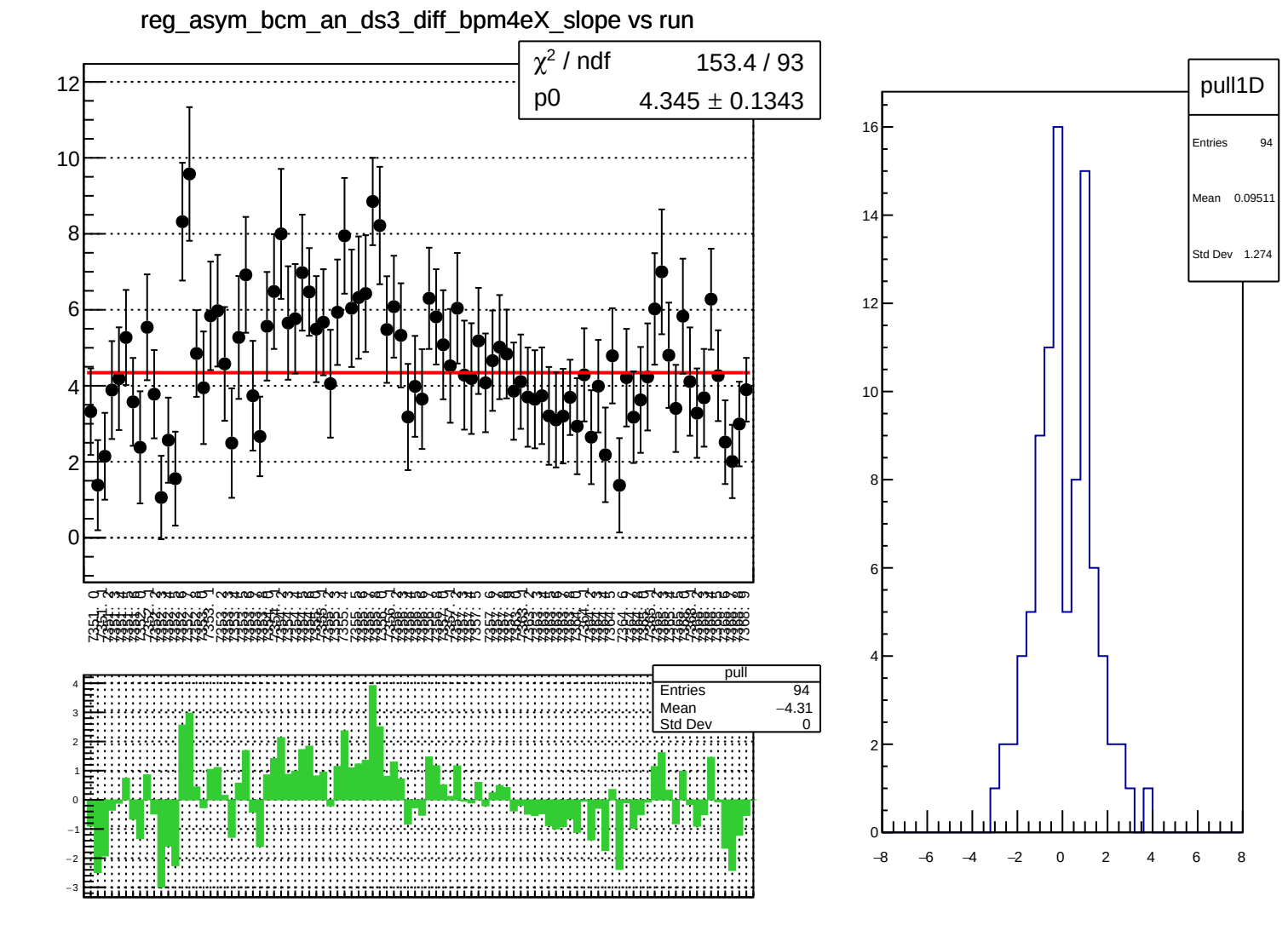

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 119.4 / 93
p0 −17.09 ± 0.7892
pull
Entries 94
Mean 162.2
Std Dev 0
pull1D
Entries 94
Mean −0.0337
Std Dev 1.126

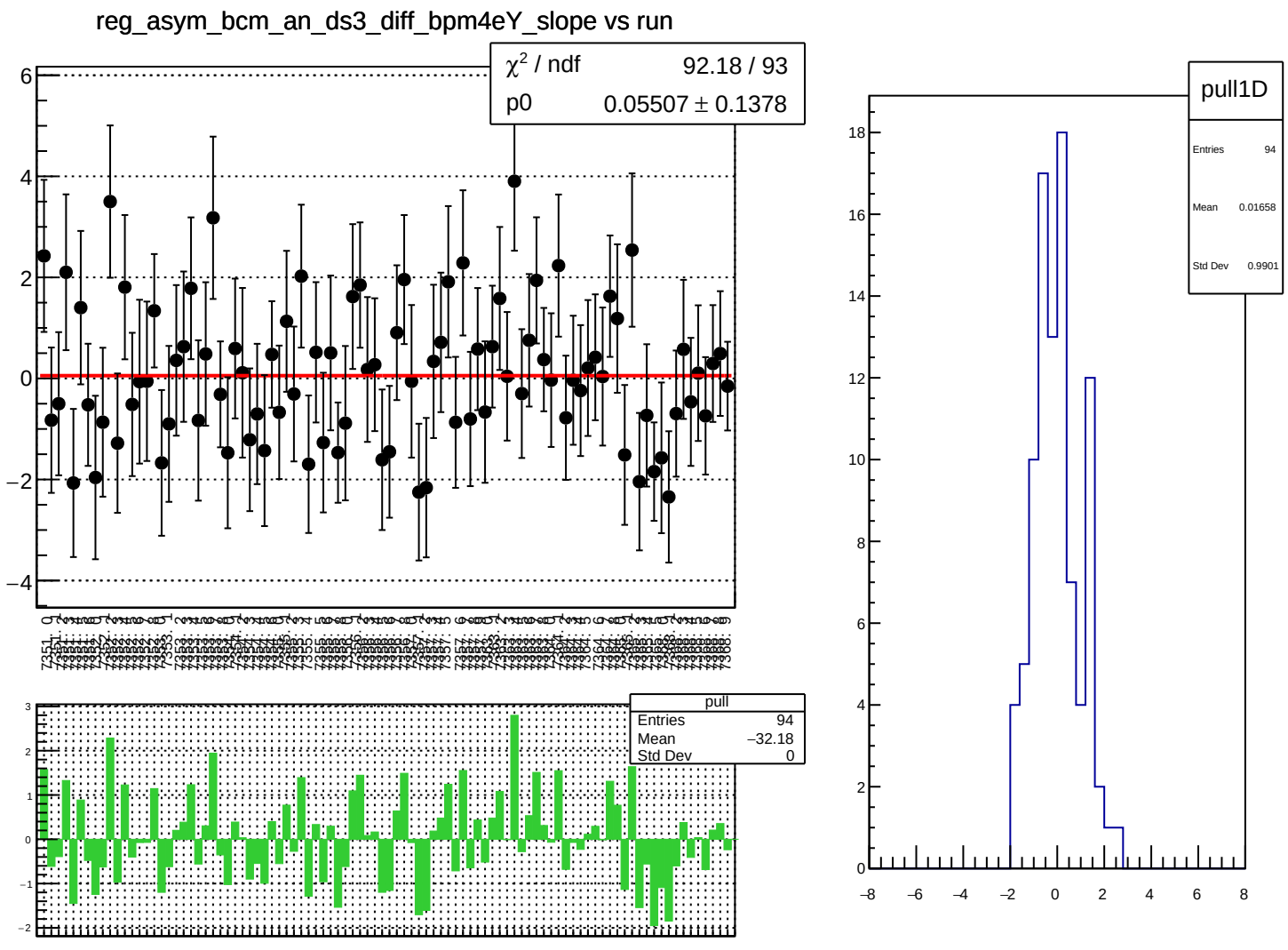

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 83.1 / 93
p0 −4.767 ± 0.8102
pull
Entries 94
Mean 572.2
Std Dev 0
pull1D
Entries 94
Mean 0.009422
Std Dev 0.9402

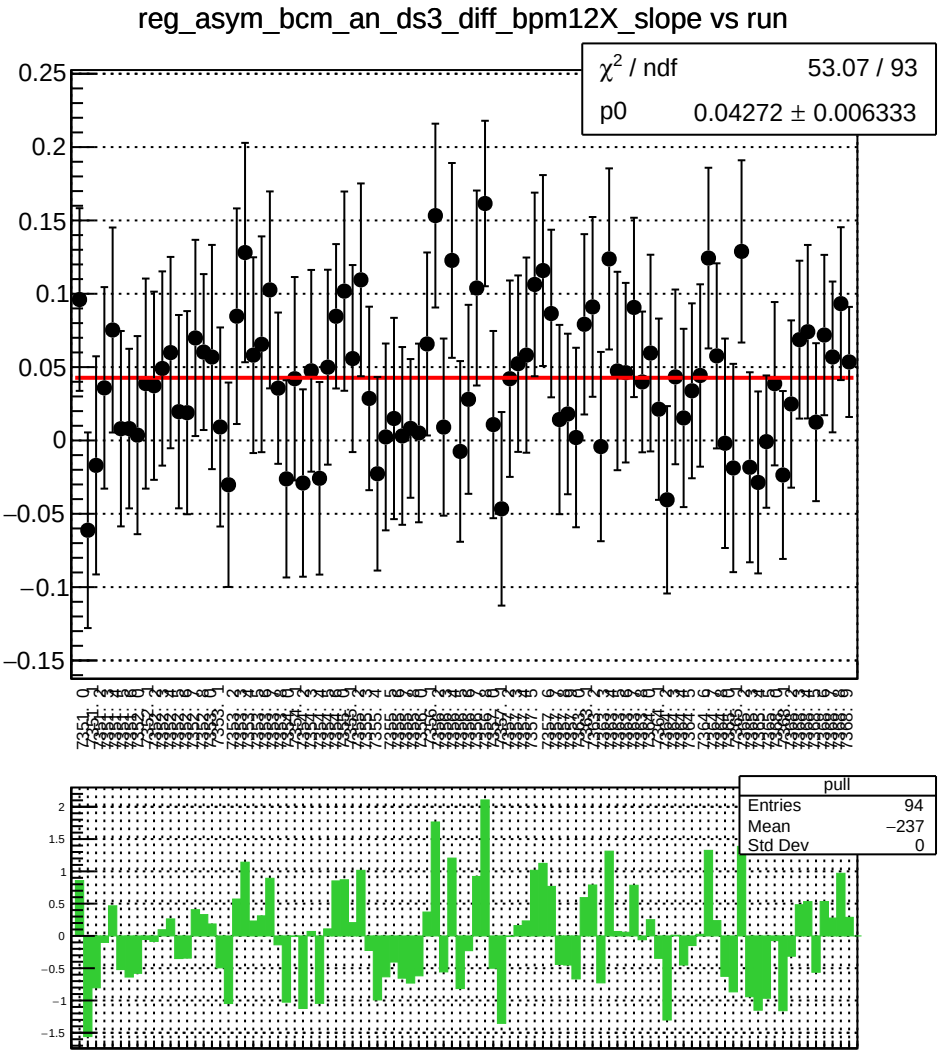

reg_asym_us_dd_atlr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 665.8 / 93
p0 −3.307 ± 0.03736
pull
Entries 94
Mean −0.9649
Std Dev 0
pull1D
Entries 94
Mean 0.4029
Std Dev 1.549

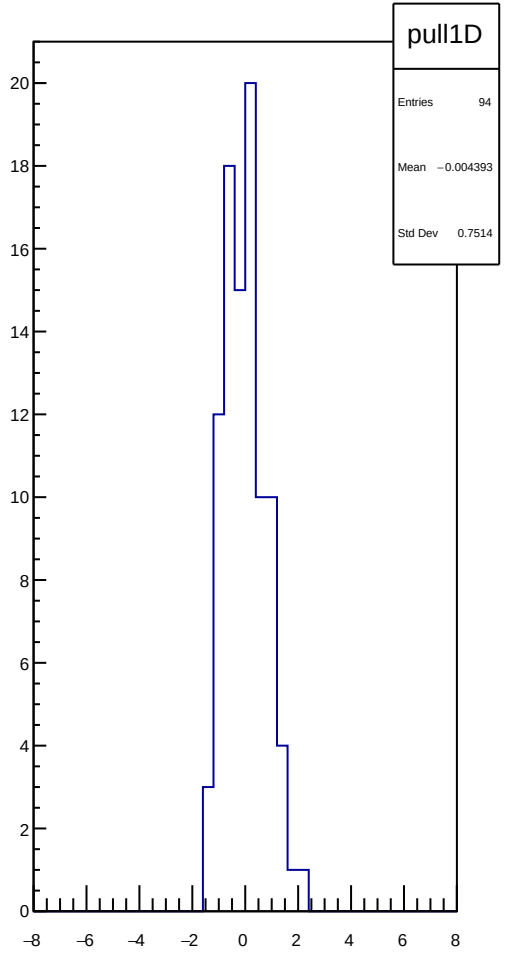

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 156.3 / 93
p0 −4.432 ± 0.1349
pull
Entries 94
Mean −1.047
Std Dev 0
pull1D
Entries 94
Mean −0.1068
Std Dev 1.285

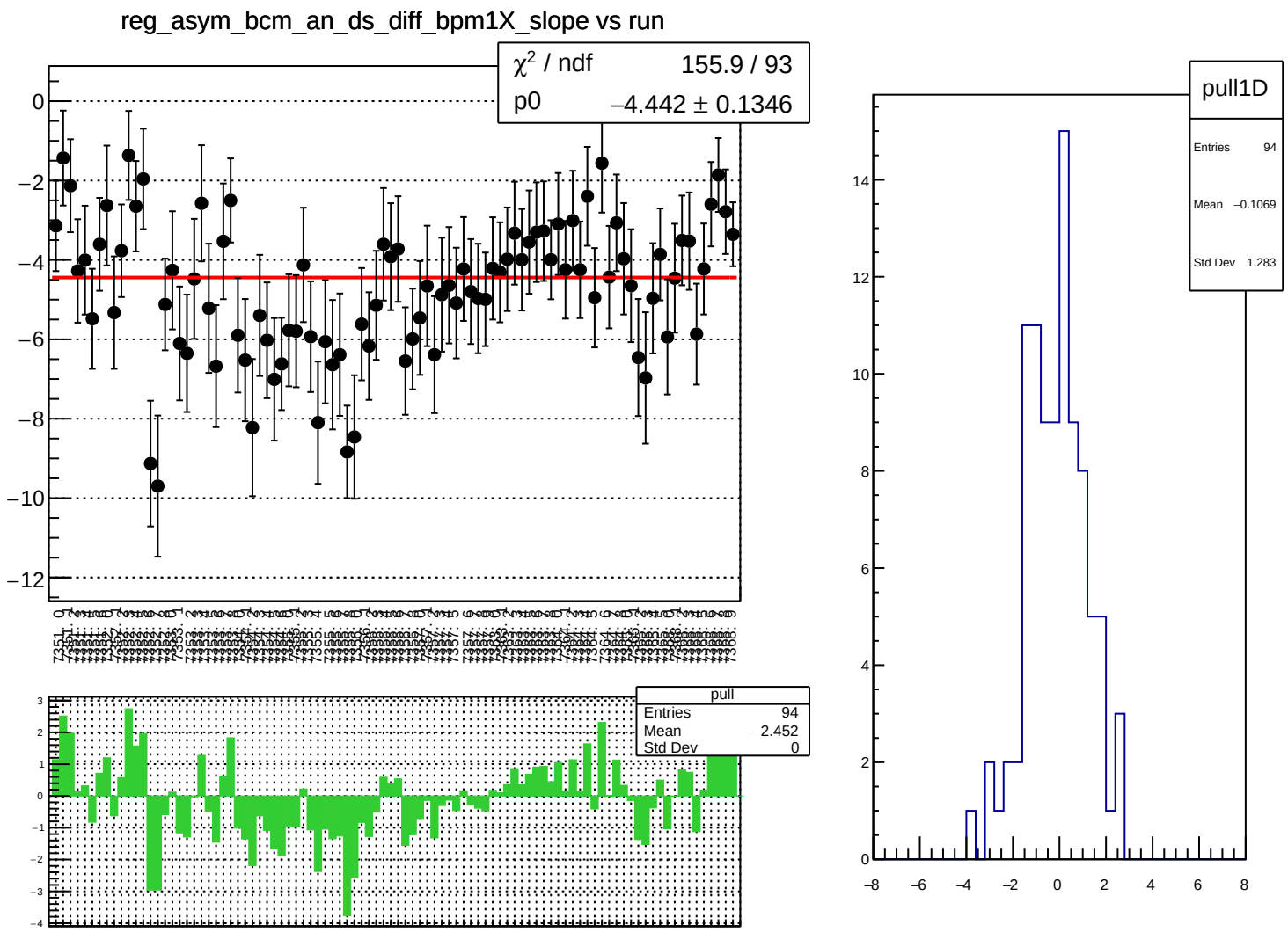

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 90.04 / 93
p0 −0.8234 ± 0.1304
pull
Entries 94
Mean −73.33
Std Dev 0
pull1D
Entries 94
Mean −0.04182
Std Dev 0.9778

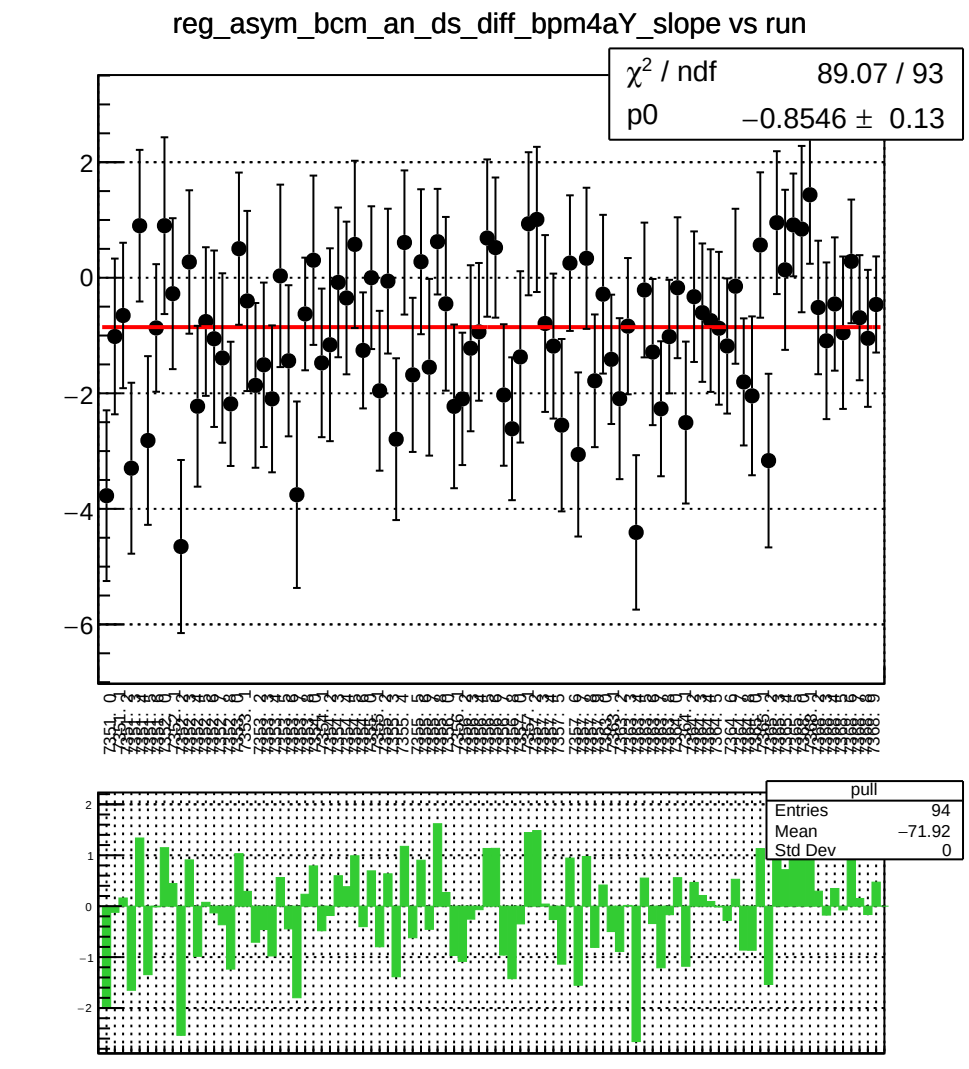

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 153.4 / 93
p0 4.345 ± 0.1343
pull
Entries 94
Mean −4.31
Std Dev 0
pull1D
Entries 94
Mean 0.09511
Std Dev 1.274

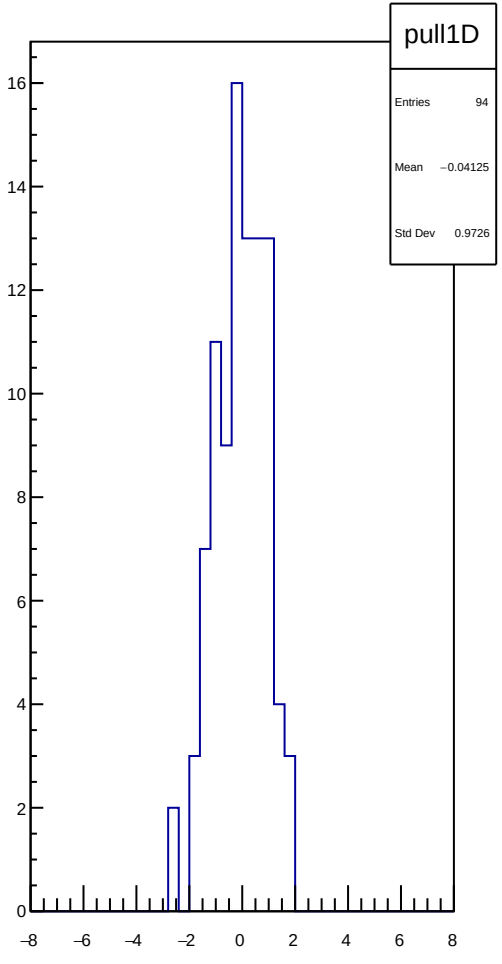

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 92.18 / 93
p0 0.05507 ± 0.1378
pull
Entries 94
Mean −32.18
Std Dev 0
pull1D
Entries 94
Mean 0.01658
Std Dev 0.9901

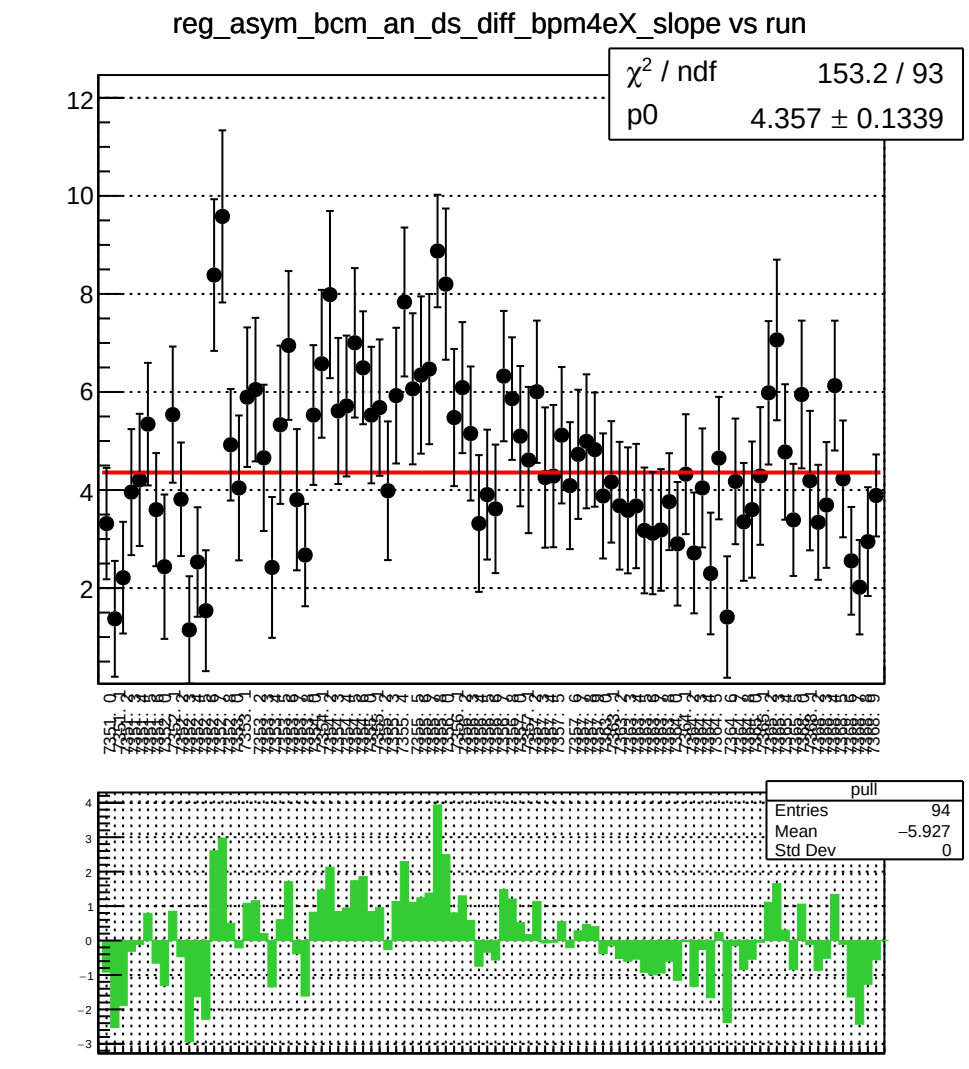

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 53.07 / 93
p0 0.04272 ± 0.006333
pull
Entries 94
Mean −237
Std Dev 0

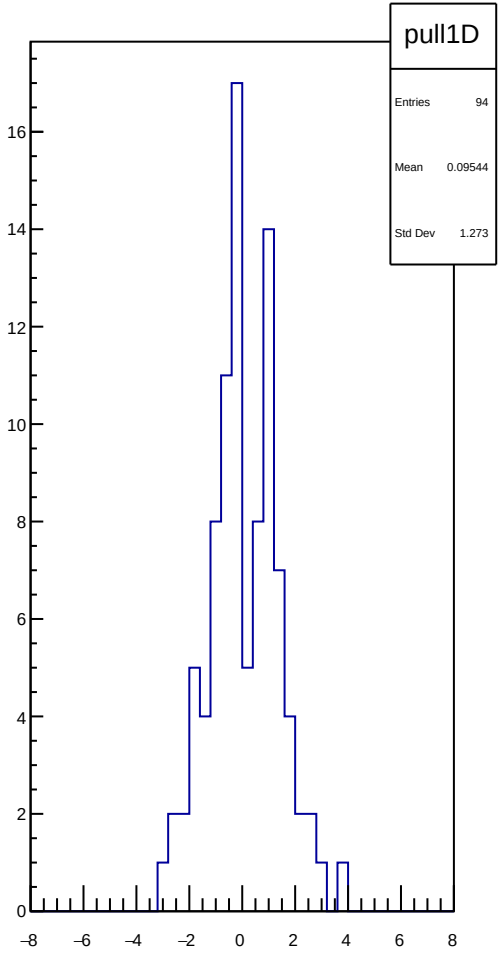

pull1D
Entries 94
Mean −0.004393
Std Dev 0.7514

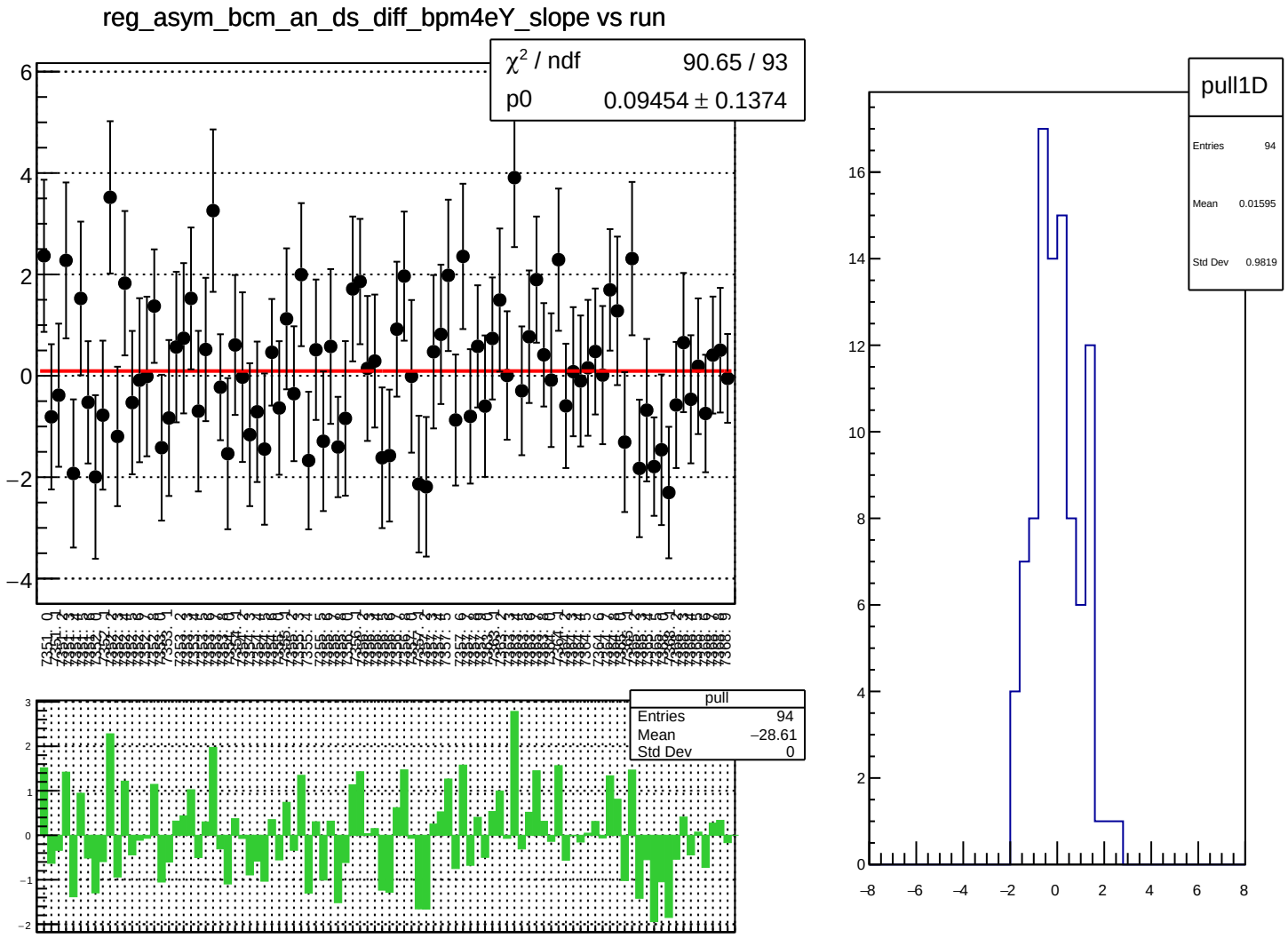

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 155.9 / 93
p0 −4.442 ± 0.1346
pull
Entries 94
Mean −2.452
Std Dev 0
pull1D
Entries 94
Mean −0.1069
Std Dev 1.283

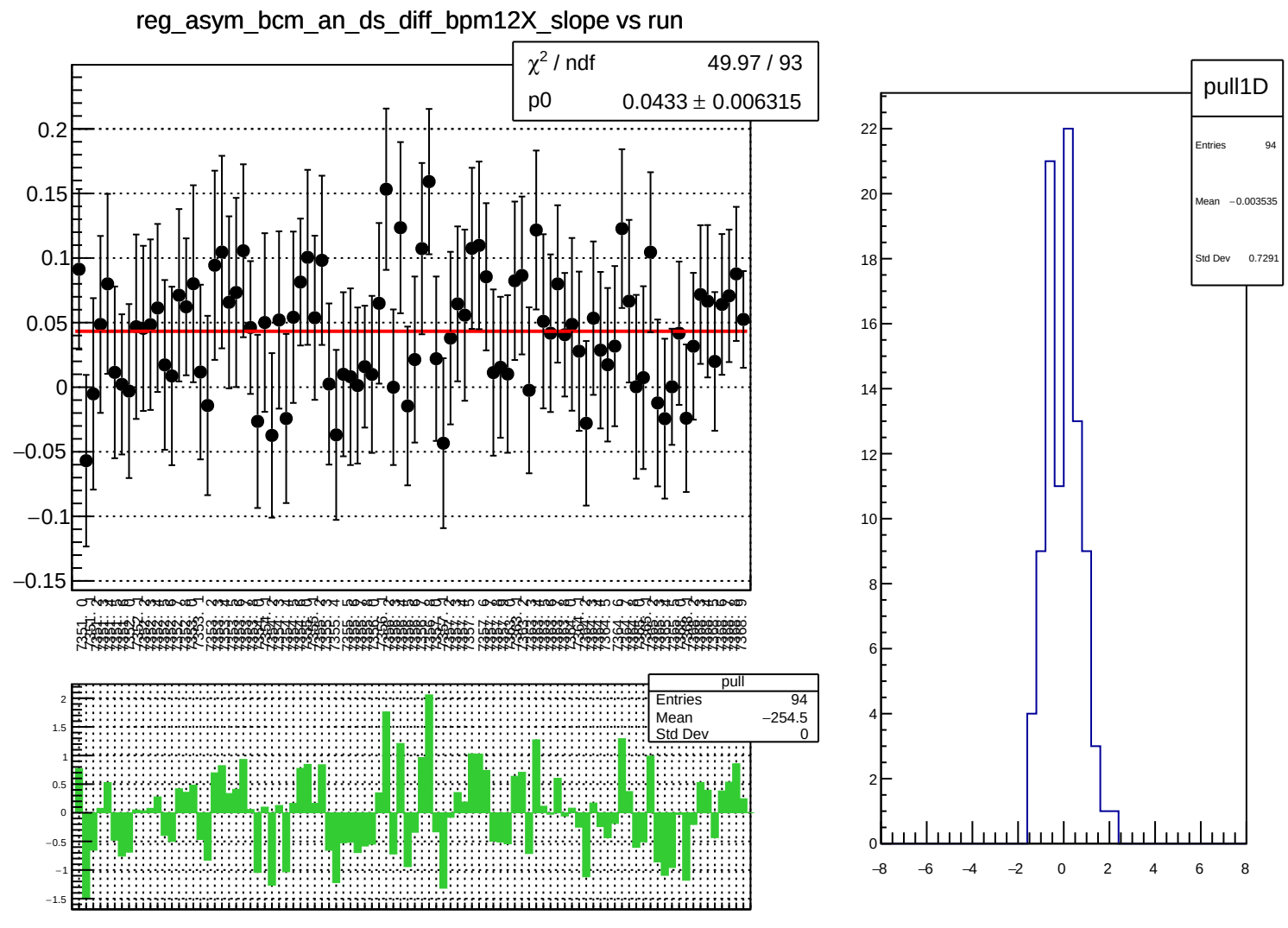

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 89.07 / 93
p0 −0.8546 ± 0.13
pull
Entries 94
Mean −71.92
Std Dev 0

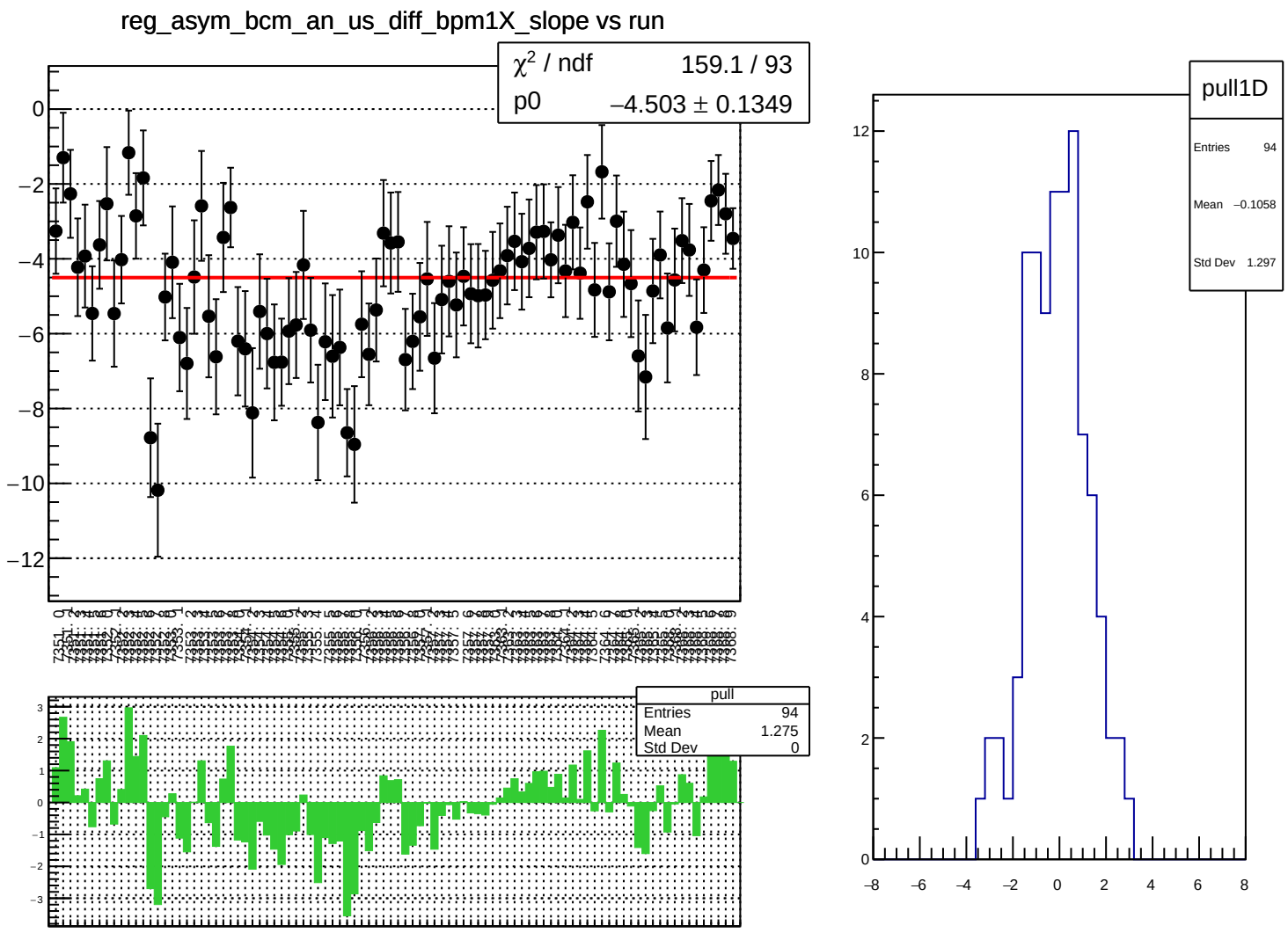

pull1D
Entries 94
Mean −0.04125
Std Dev 0.9726

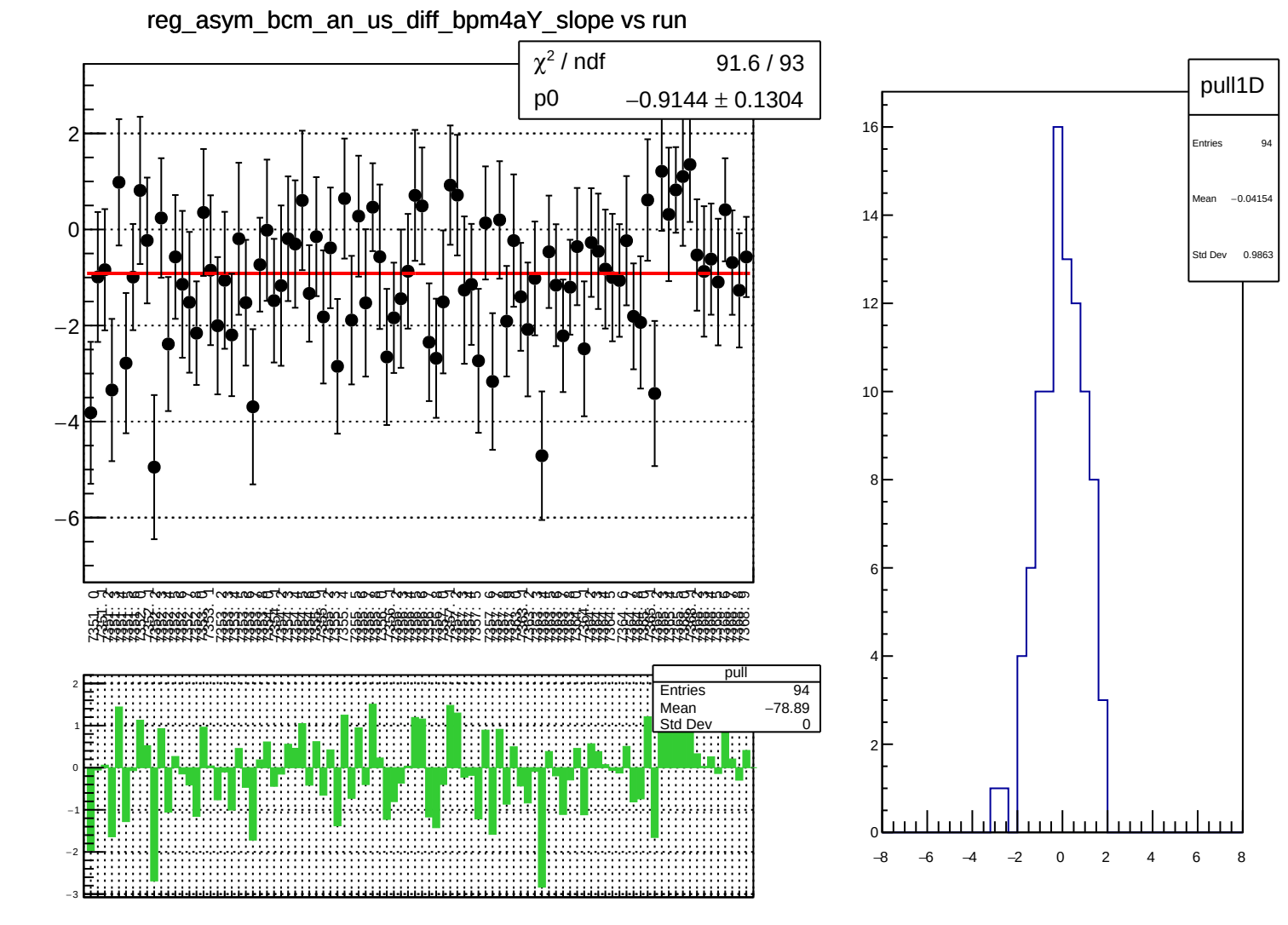

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 153.2 / 93
p0 4.357 ± 0.1339
pull
Entries 94
Mean −5.927
Std Dev 0

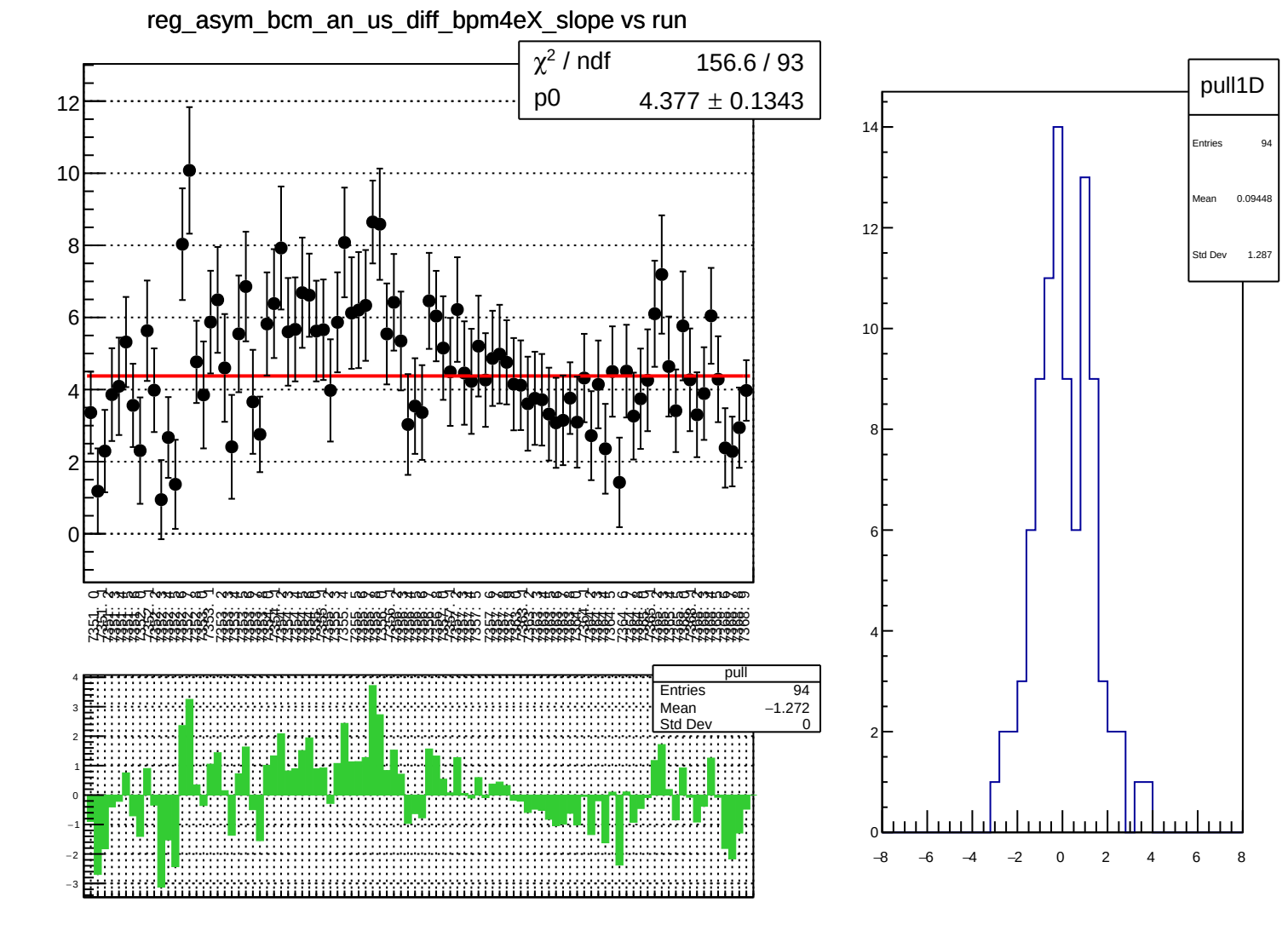

pull1D
Entries 94
Mean 0.09544
Std Dev 1.273

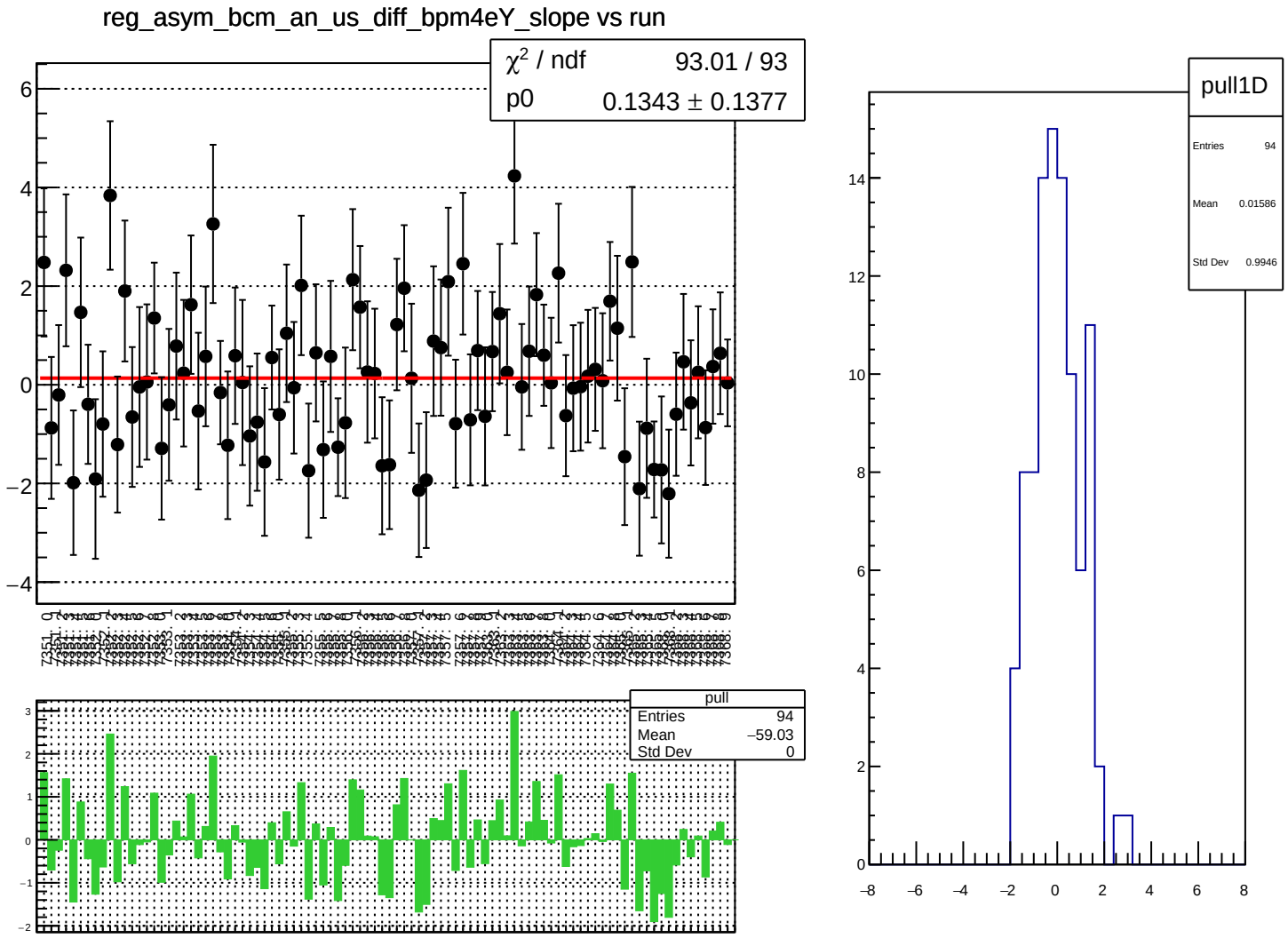

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 90.65 / 93
p0 0.09454 ± 0.1374
pull
Entries 94
Mean −28.61
Std Dev 0
pull1D
Entries 94
Mean 0.01595
Std Dev 0.9819

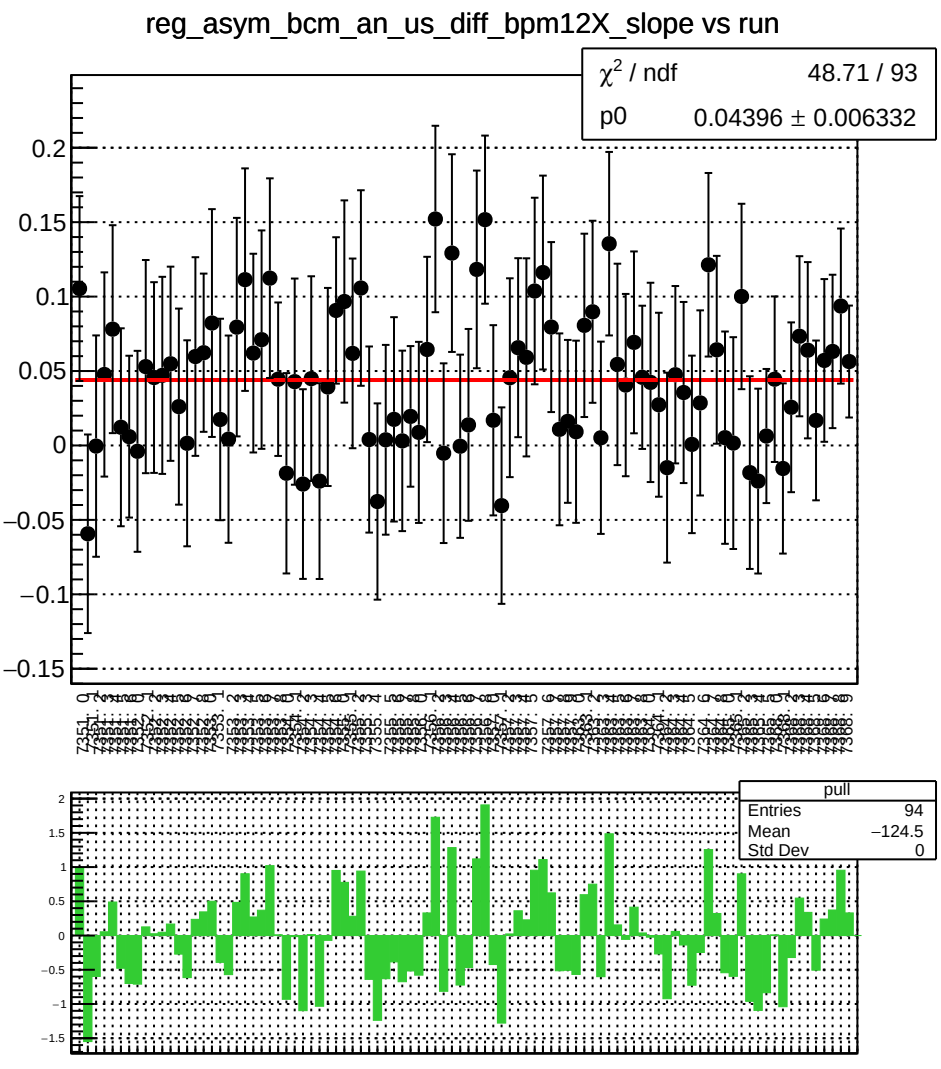

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 49.97 / 93
p0 0.0433 ± 0.006315
pull
Entries 94
Mean −254.5
Std Dev 0
pull1D
Entries 94
Mean −0.003535
Std Dev 0.7291

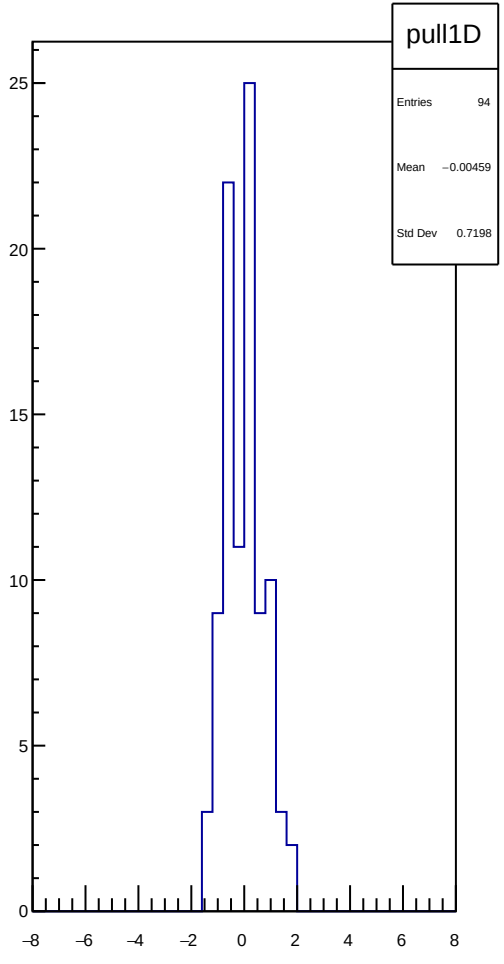

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 159.1 / 93
p0 −4.503 ± 0.1349
pull
Entries 94
Mean 1.275
Std Dev 0
pull1D
Entries 94
Mean −0.1058
Std Dev 1.297

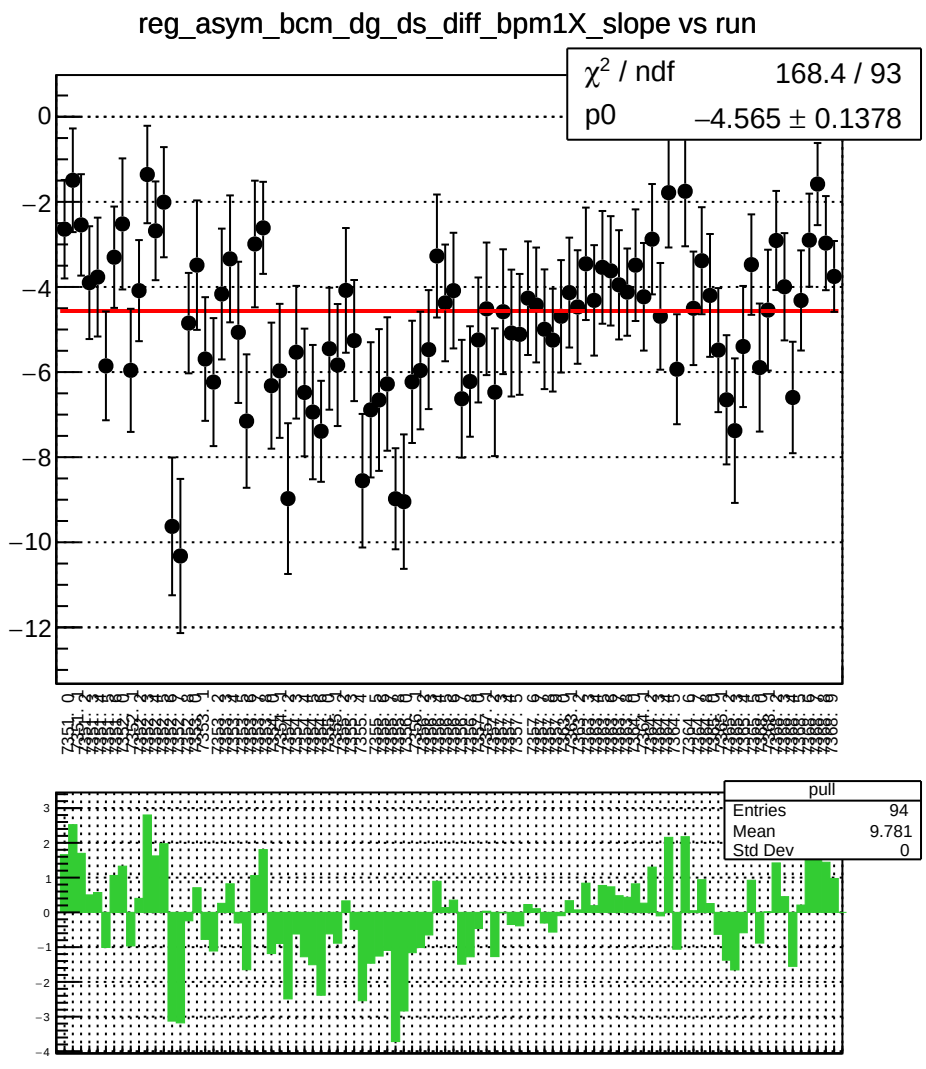

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 91.6 / 93
p0 −0.9144 ± 0.1304
pull
Entries 94
Mean −78.89
Std Dev 0
pull1D
Entries 94
Mean −0.04154
Std Dev 0.9863

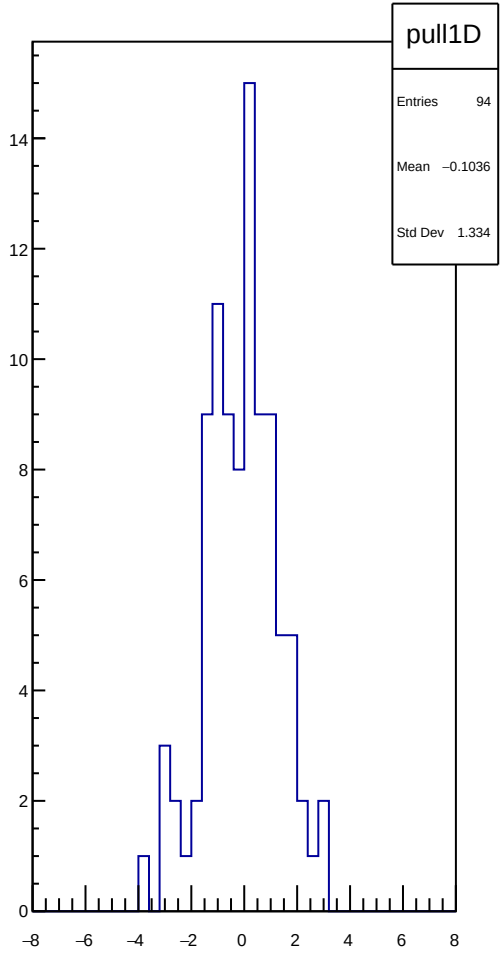

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 156.6 / 93
p0 4.377 ± 0.1343
pull
Entries 94
Mean −1.272
Std Dev 0
pull1D
Entries 94
Mean 0.09448
Std Dev 1.287

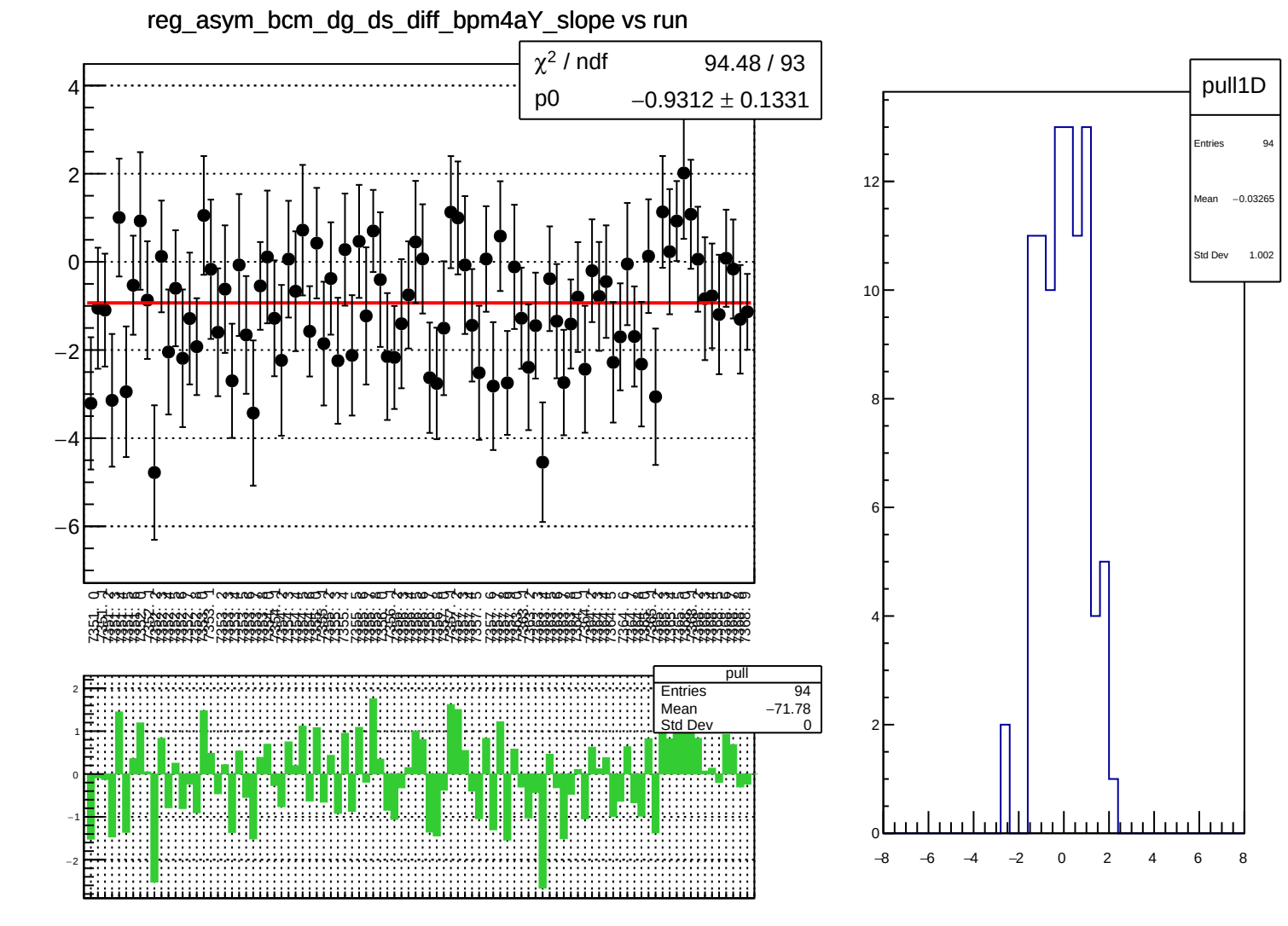

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 93.01 / 93
p0 0.1343 ± 0.1377
pull
Entries 94
Mean −59.03
Std Dev 0
pull1D
Entries 94
Mean 0.01586
Std Dev 0.9946

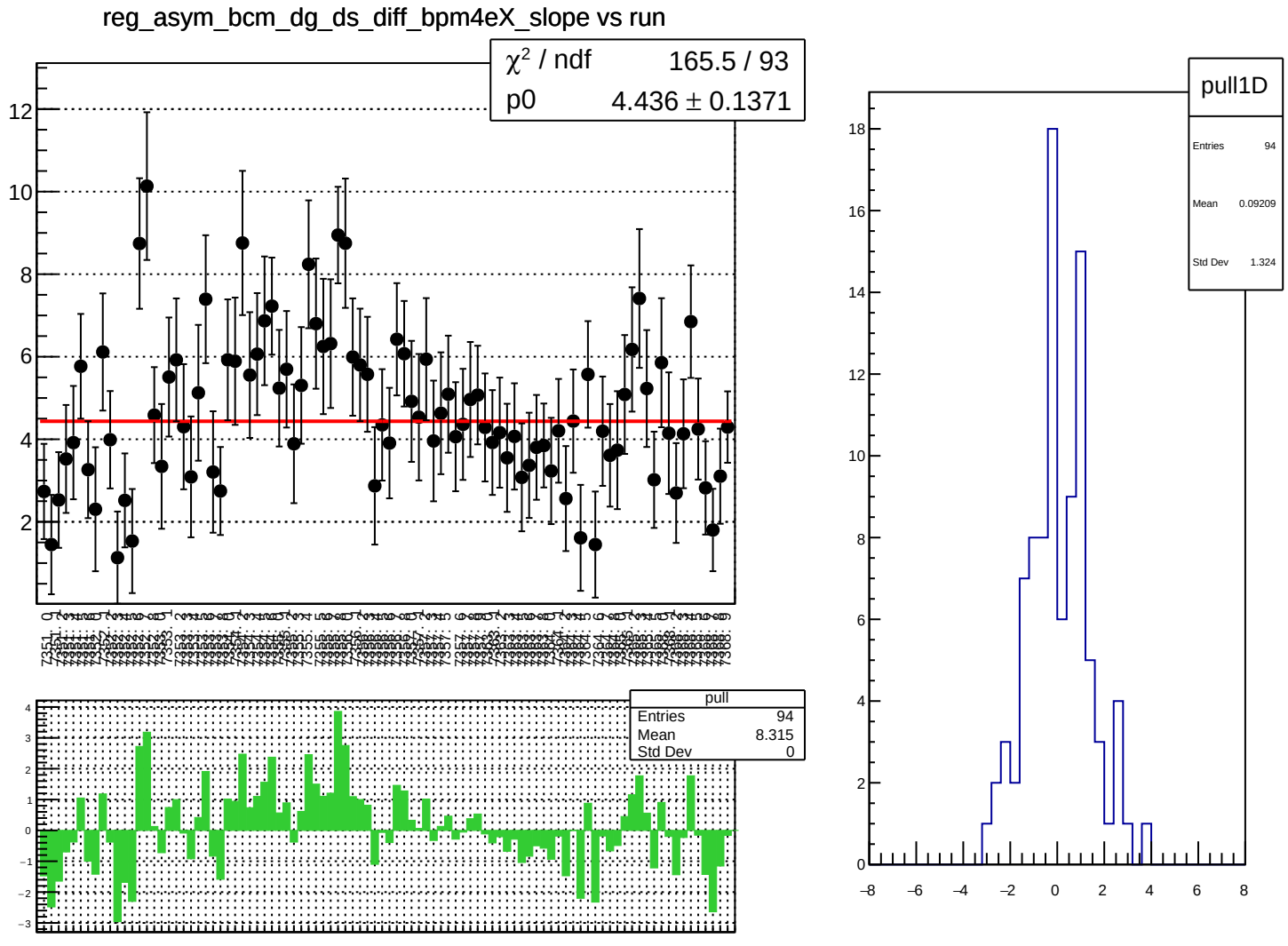

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 48.71 / 93
p0 0.04396 ± 0.006332
pull
Entries 94
Mean −124.5
Std Dev 0

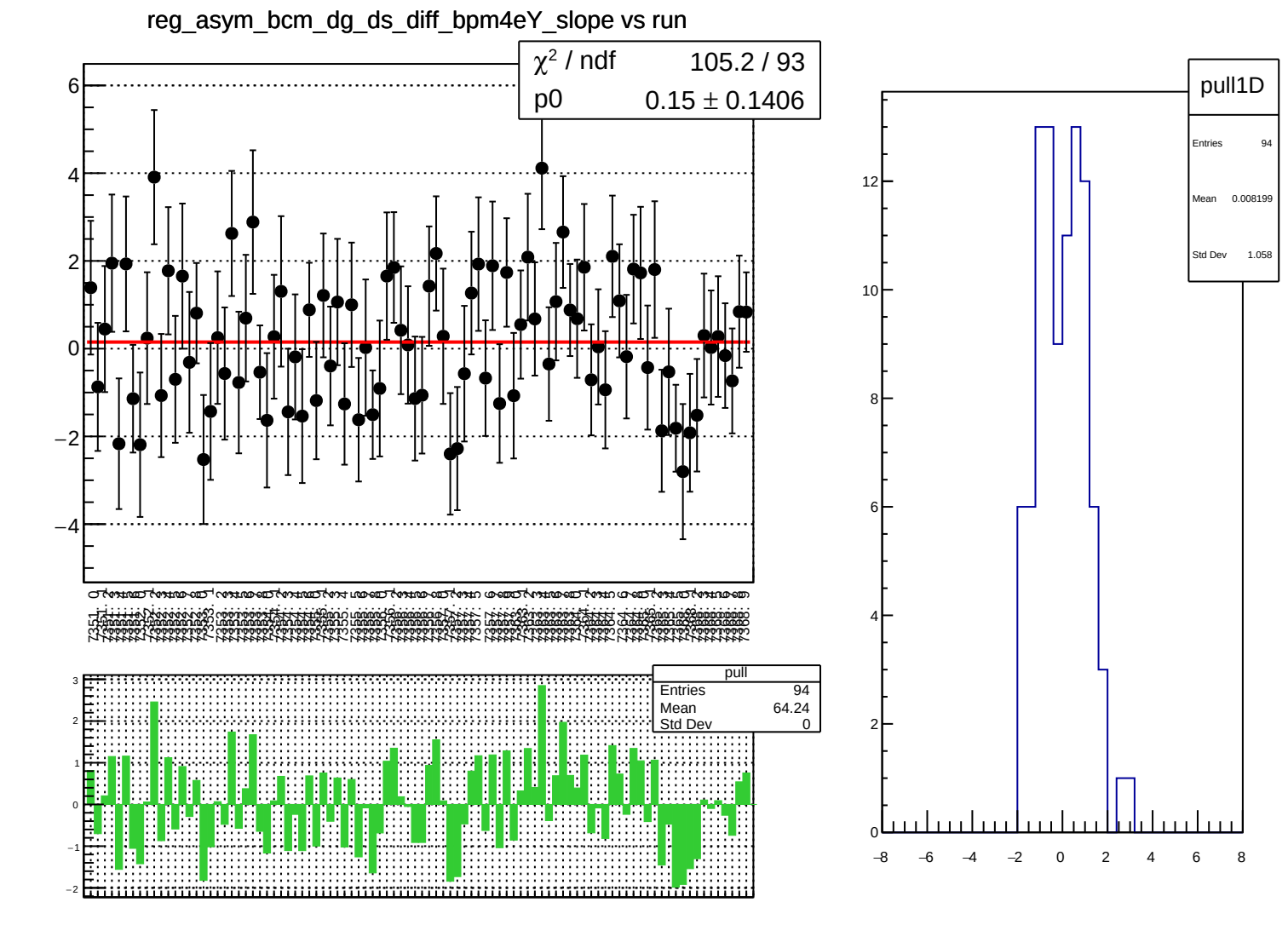

pull1D
Entries 94
Mean −0.00459
Std Dev 0.7198

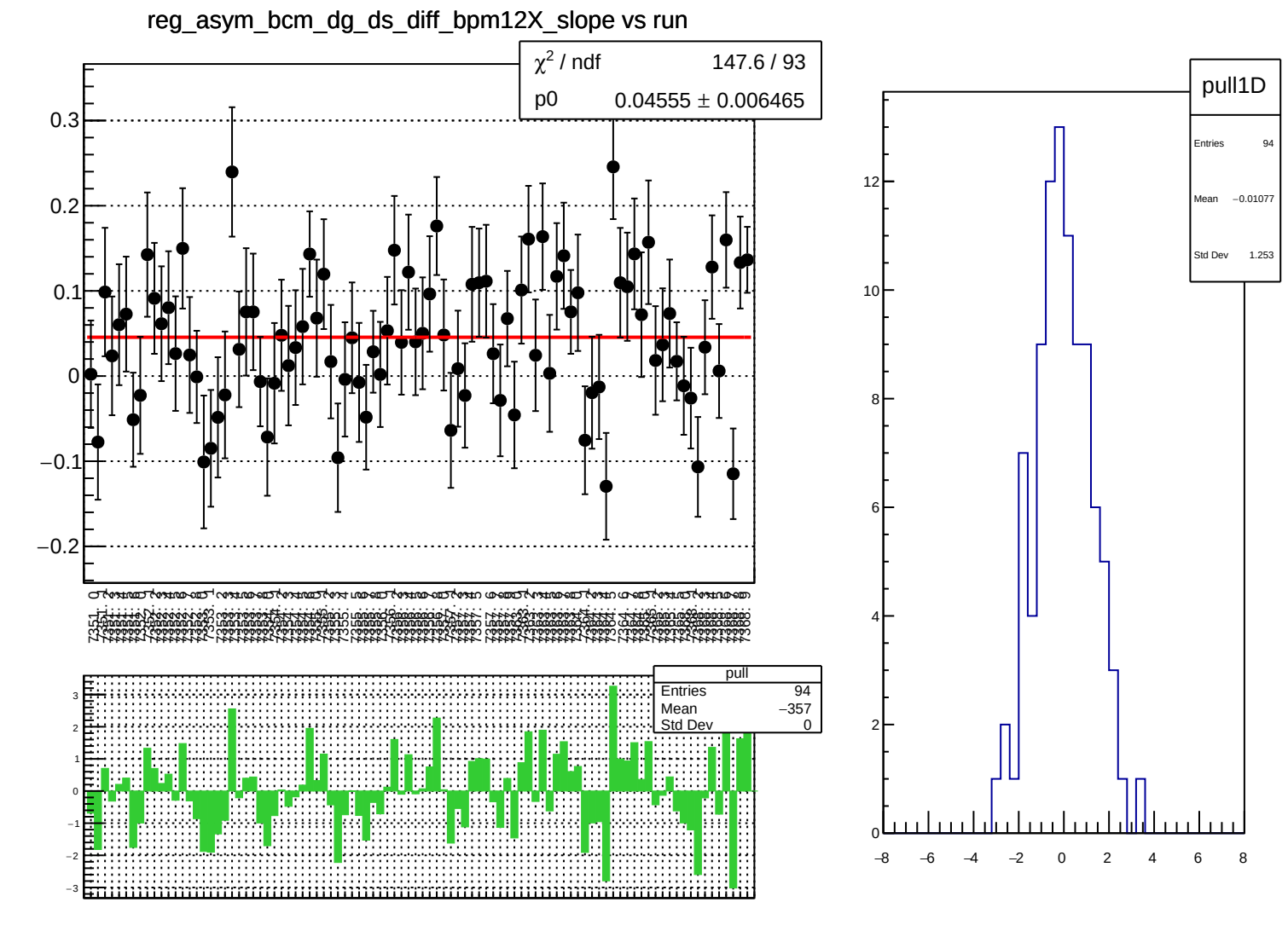

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 168.4 / 93
p0 −4.565 ± 0.1378
pull
Entries 94
Mean 9.781
Std Dev 0

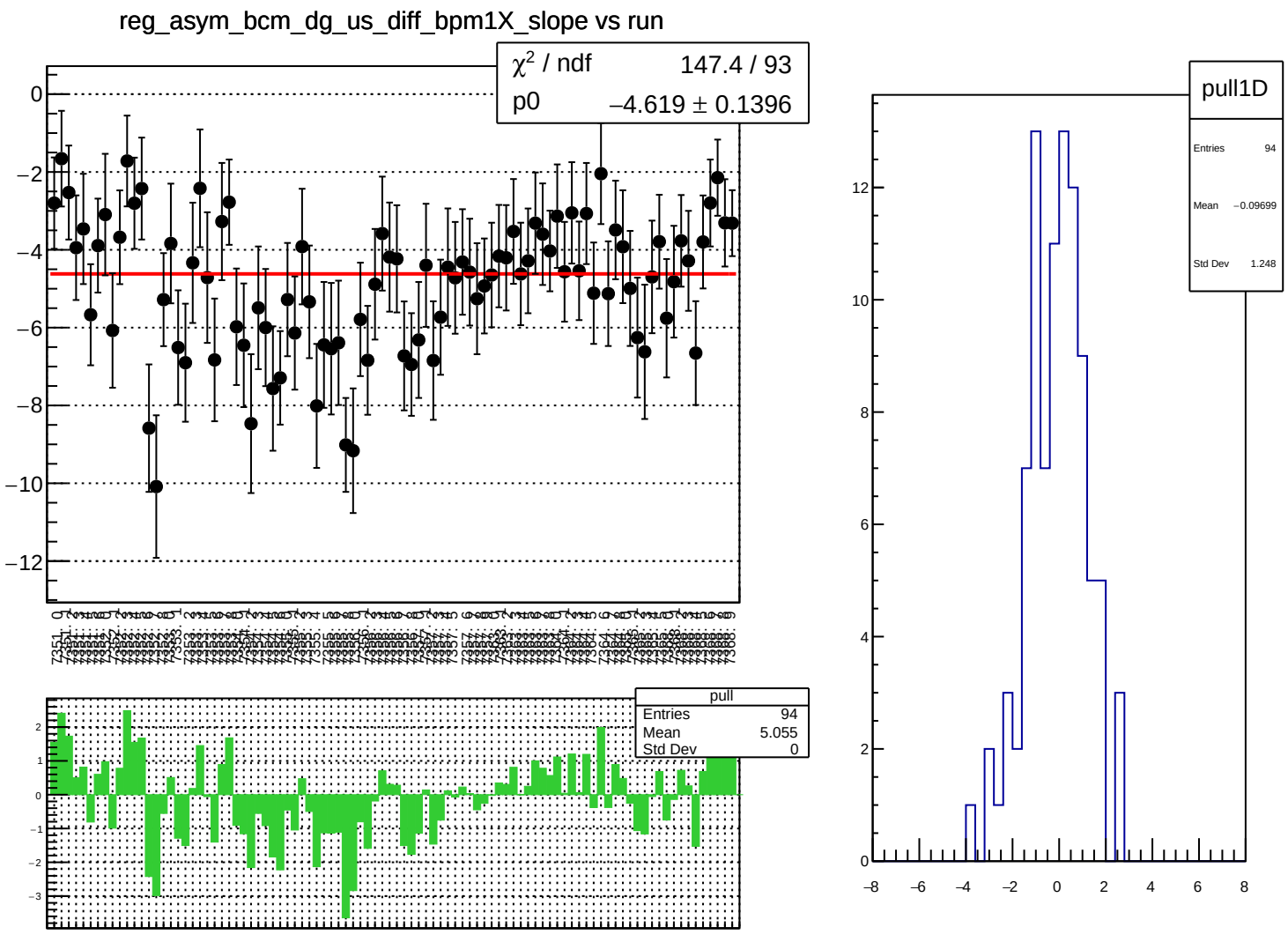

pull1D
Entries 94
Mean −0.1036
Std Dev 1.334

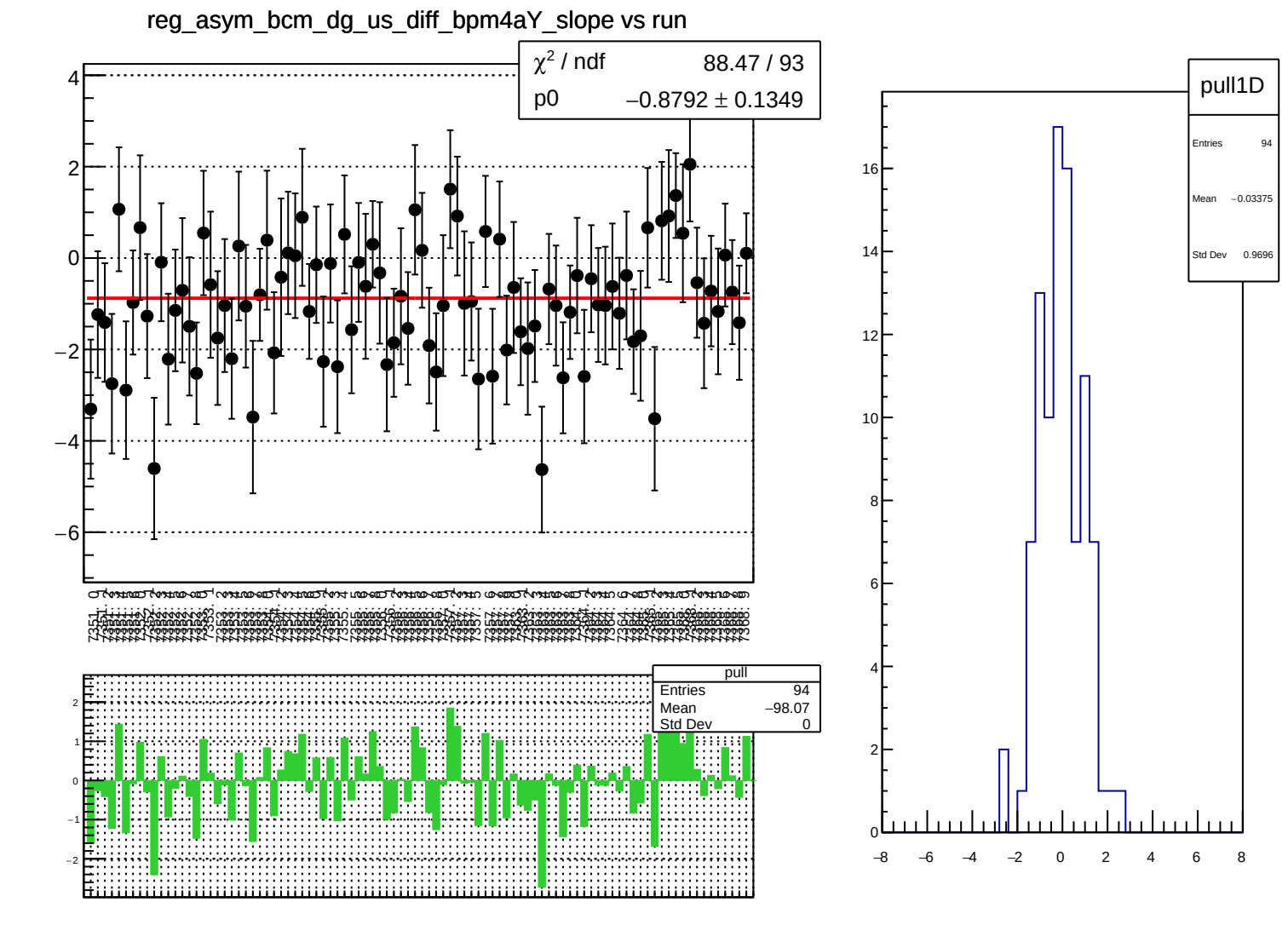

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 94.48 / 93
p0 −0.9312 ± 0.1331
pull
Entries 94
Mean −71.78
Std Dev 0
pull1D
Entries 94
Mean −0.03265
Std Dev 1.002

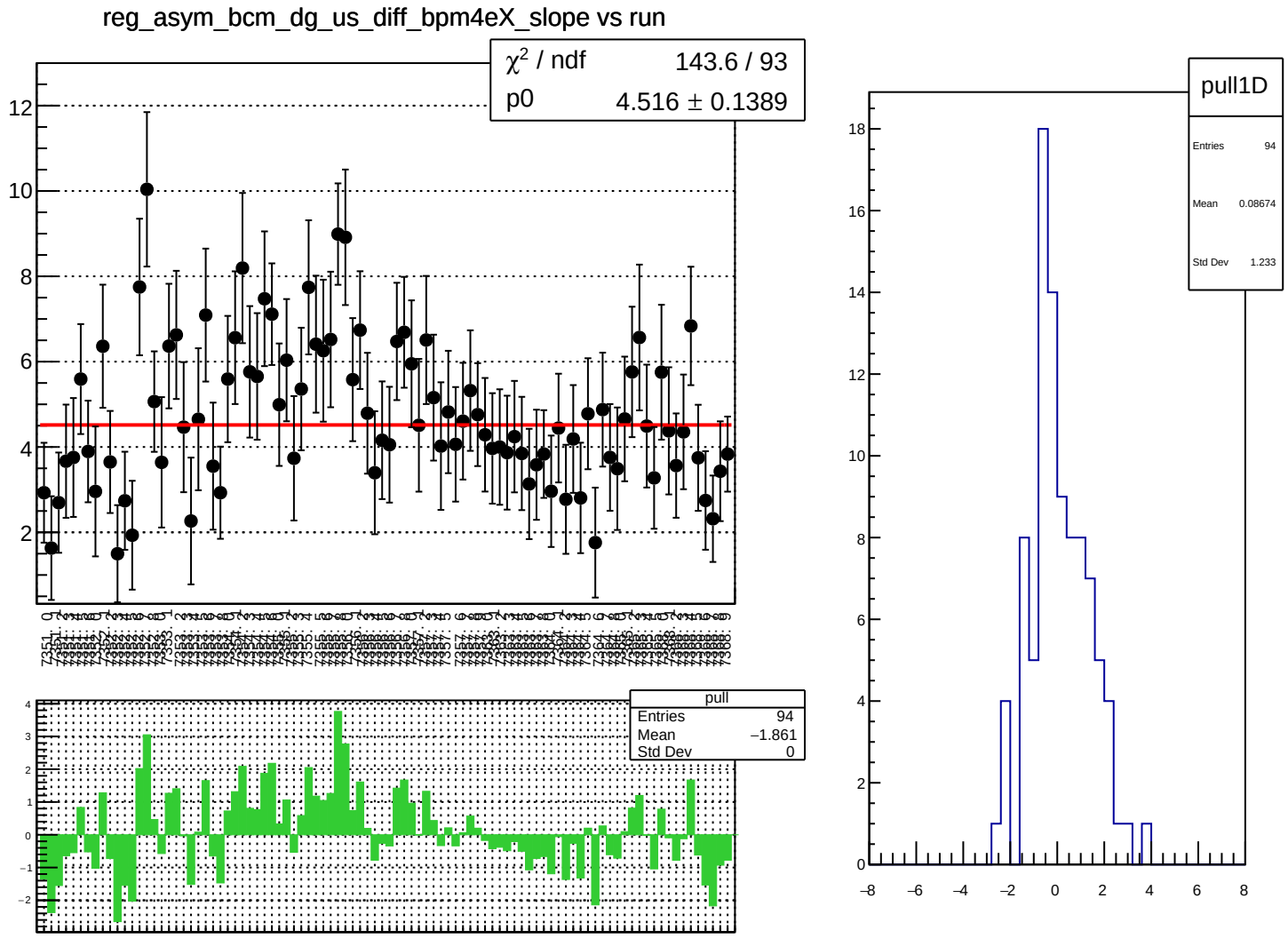

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 165.5 / 93
p0 4.436 ± 0.1371
pull
Entries 94
Mean 8.315
Std Dev 0
pull1D
Entries 94
Mean 0.09209
Std Dev 1.324

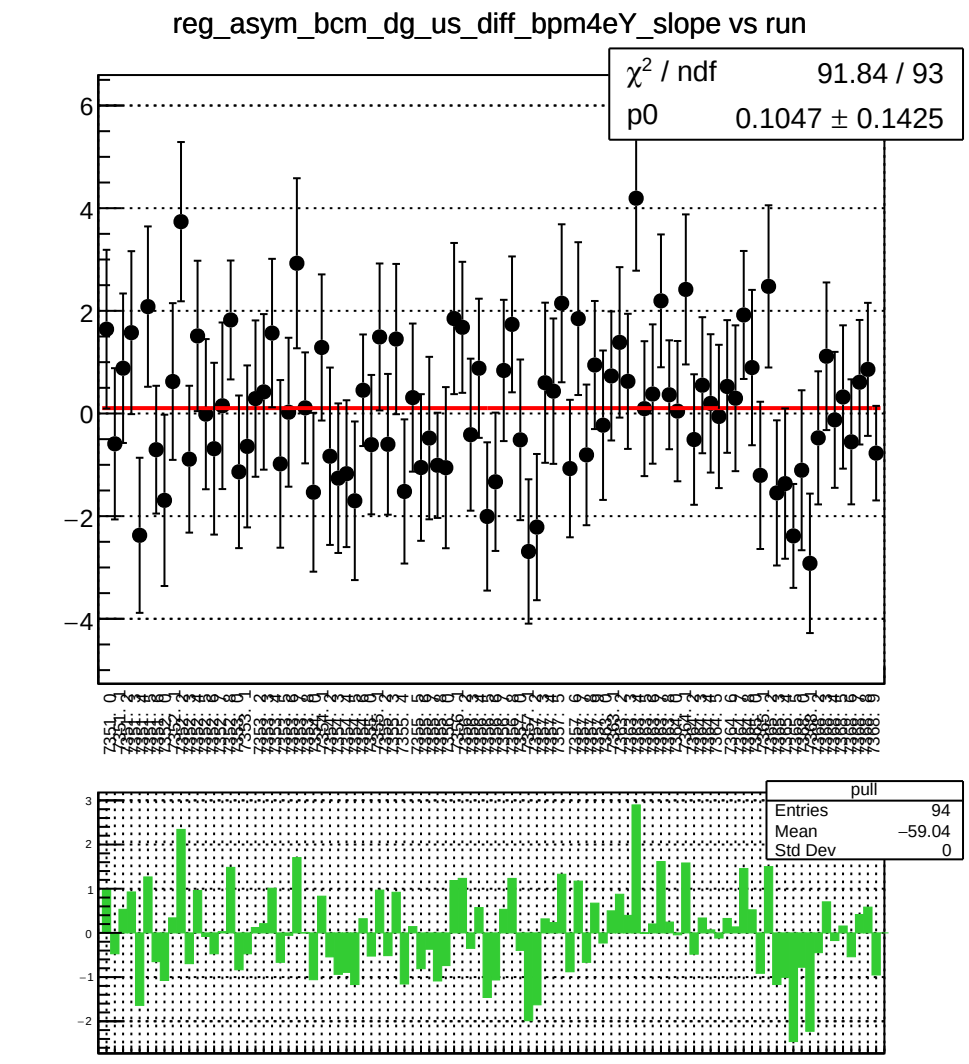

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 105.2 / 93
p0 0.15 ± 0.1406
pull
Entries 94
Mean 64.24
Std Dev 0
pull1D
Entries 94
Mean 0.008199
Std Dev 1.058

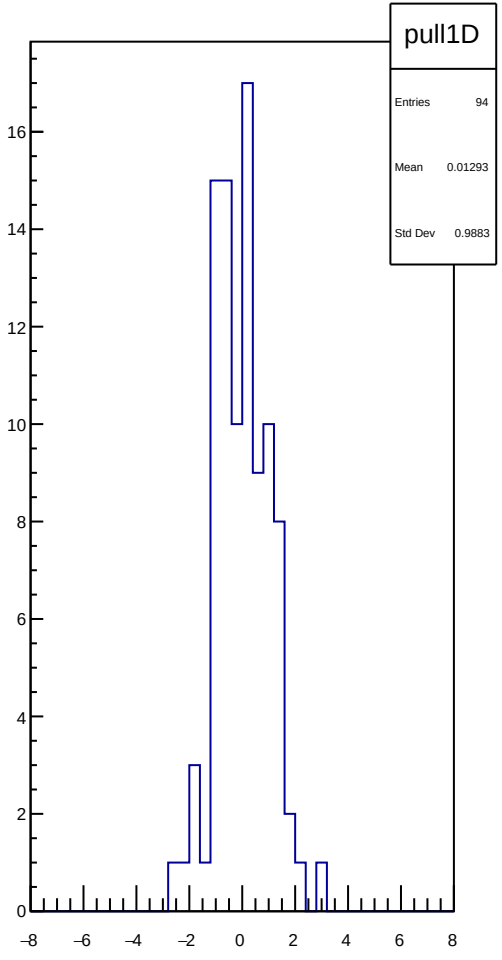

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 147.6 / 93
p0 0.04555 ± 0.006465
pull
Entries 94
Mean −357
Std Dev 0
pull1D
Entries 94
Mean −0.01077
Std Dev 1.253

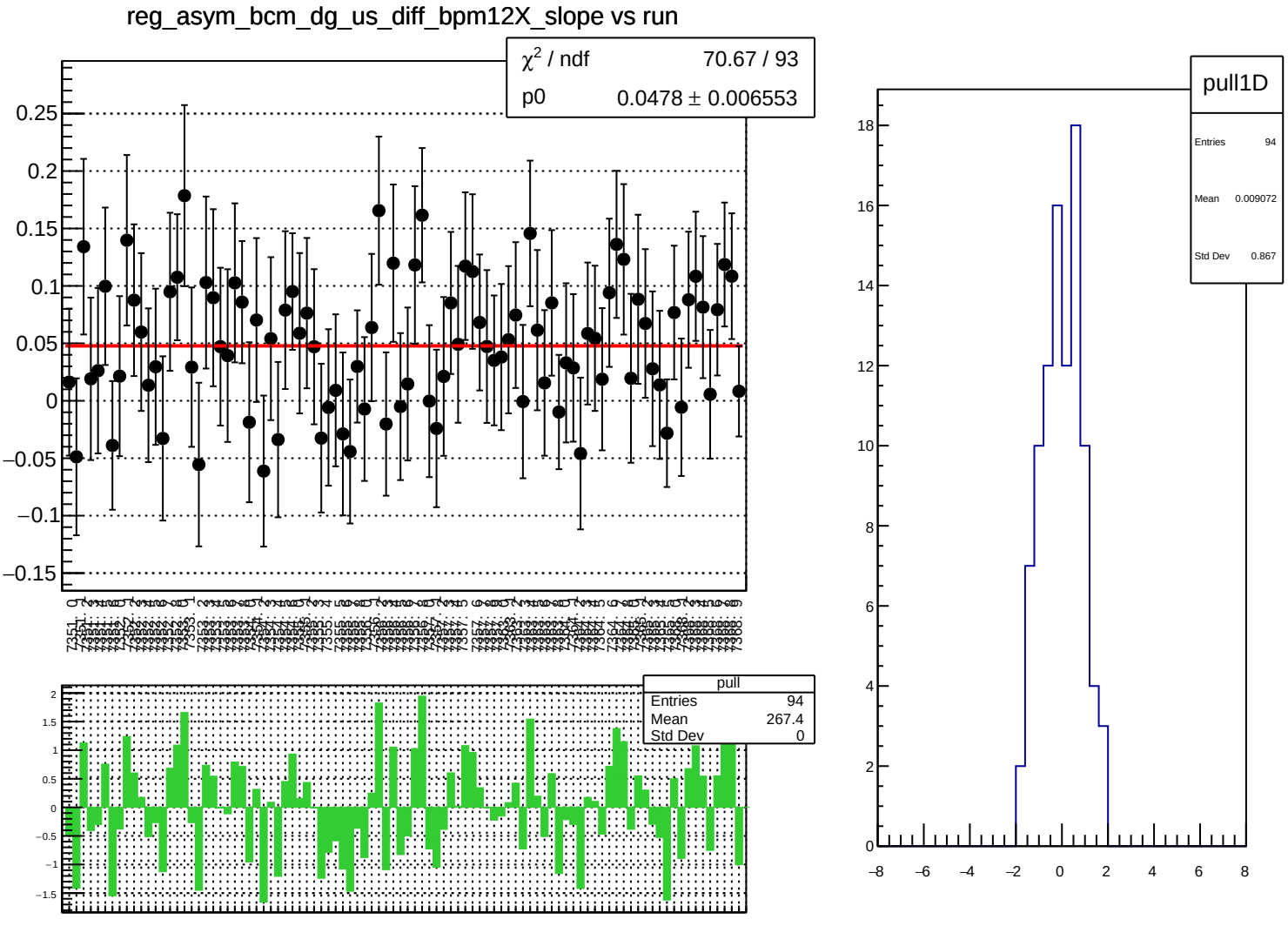

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 147.4 / 93
p0 −4.619 ± 0.1396
pull
Entries 94
Mean 5.055
Std Dev 0
pull1D
Entries 94
Mean −0.09699
Std Dev 1.248

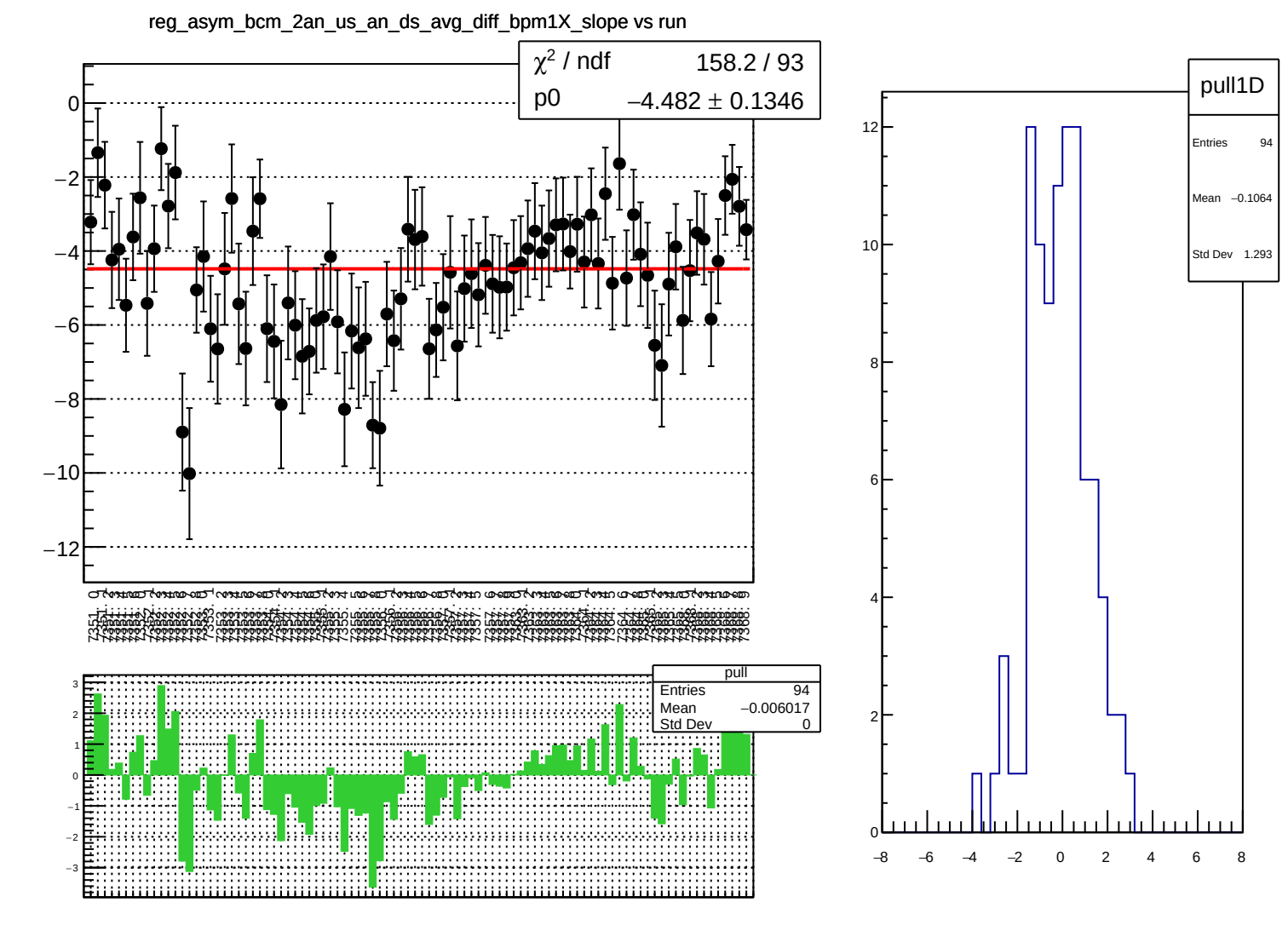

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 88.47 / 93
p0 −0.8792 ± 0.1349
pull
Entries 94
Mean −98.07
Std Dev 0
pull1D
Entries 94
Mean −0.03375
Std Dev 0.9696

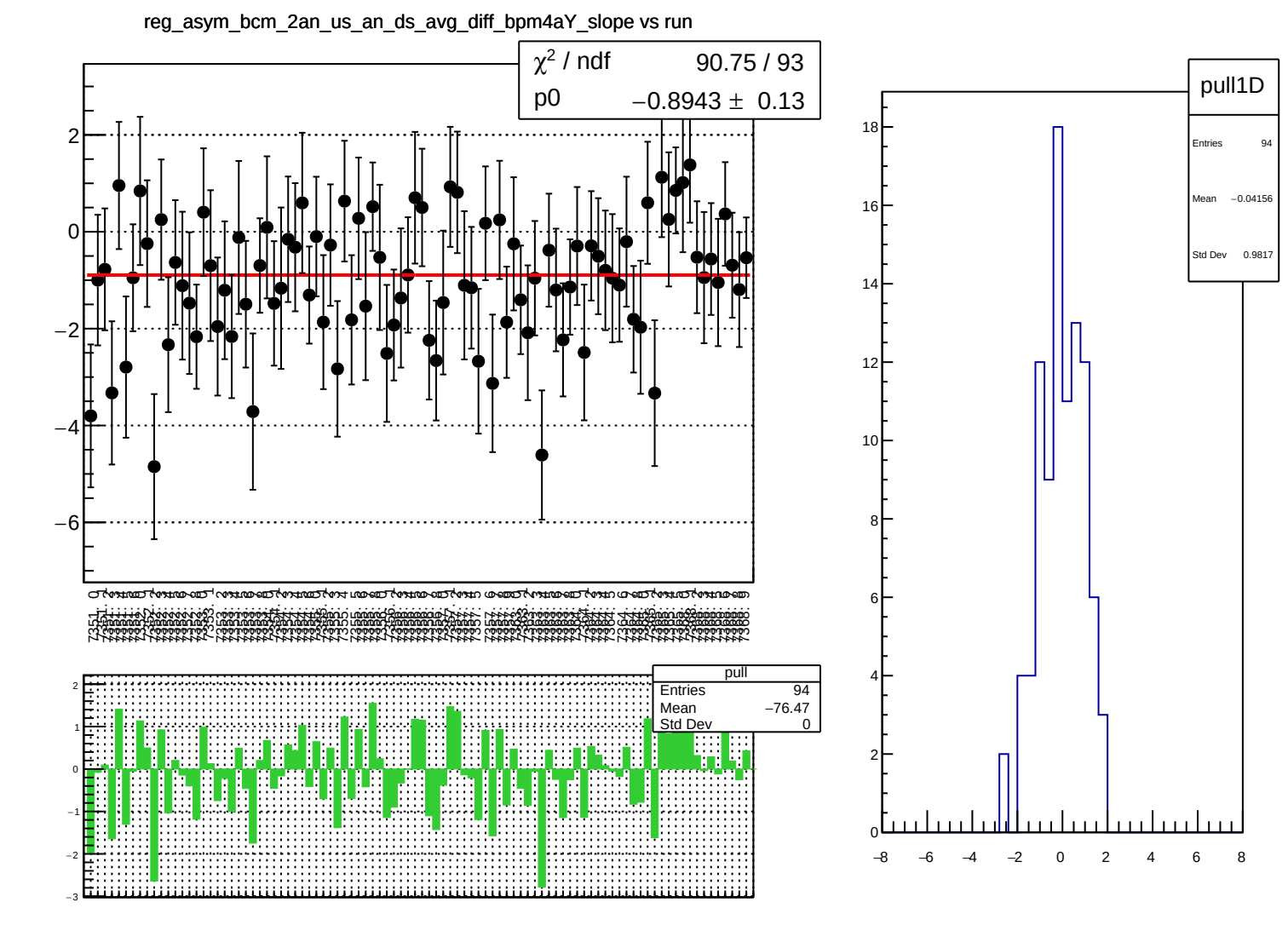

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 143.6 / 93
p0 4.516 ± 0.1389
pull
Entries 94
Mean −1.861
Std Dev 0
pull1D
Entries 94
Mean 0.08674
Std Dev 1.233

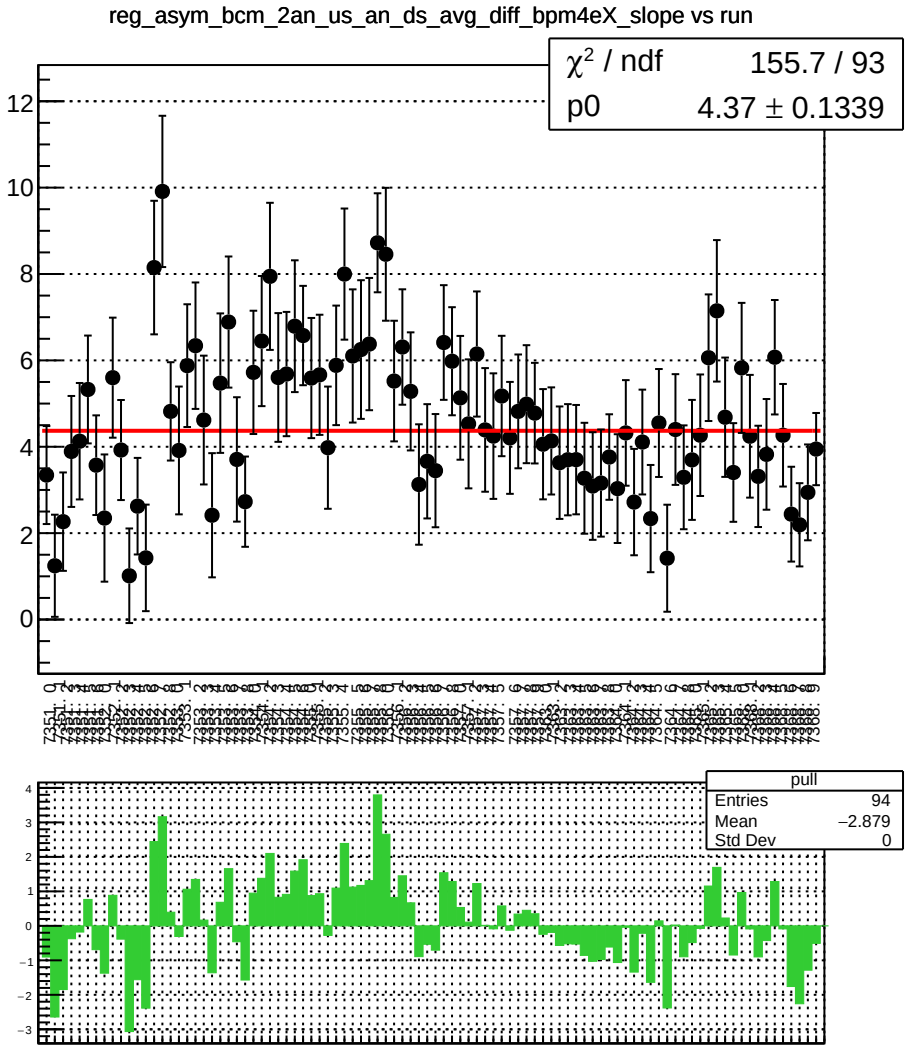

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 91.84 / 93
p0 0.1047 ± 0.1425
pull
Entries 94
Mean −59.04
Std Dev 0

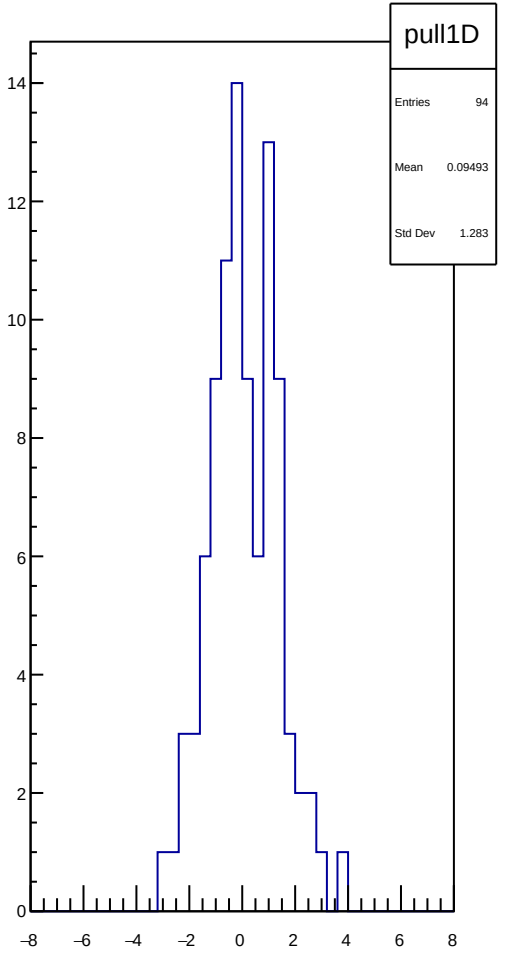

pull1D
Entries 94
Mean 0.01293
Std Dev 0.9883

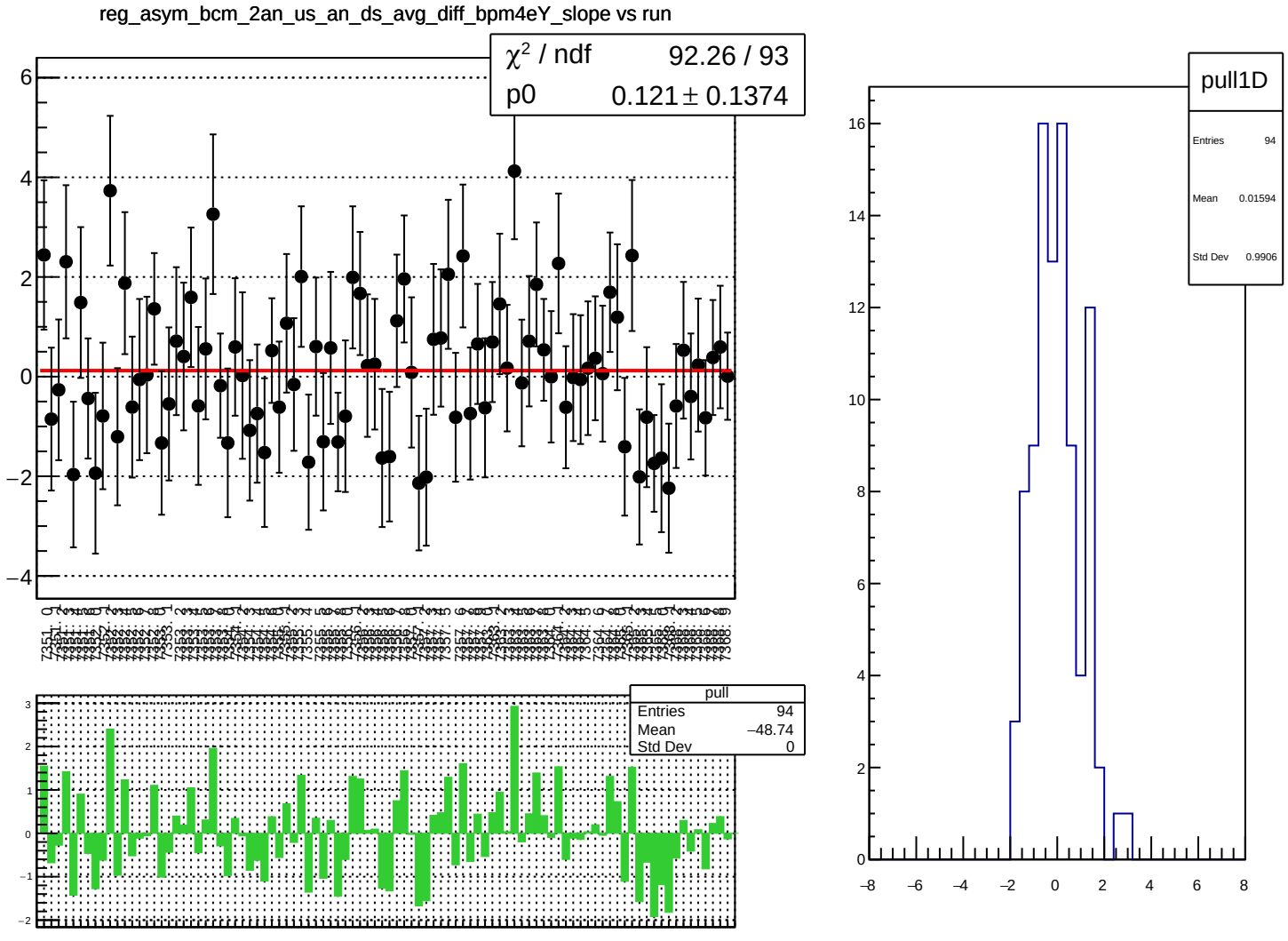

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 70.67 / 93
p0 0.0478 ± 0.006553
pull
Entries 94
Mean 267.4
Std Dev 0
pull1D
Entries 94
Mean 0.009072
Std Dev 0.867

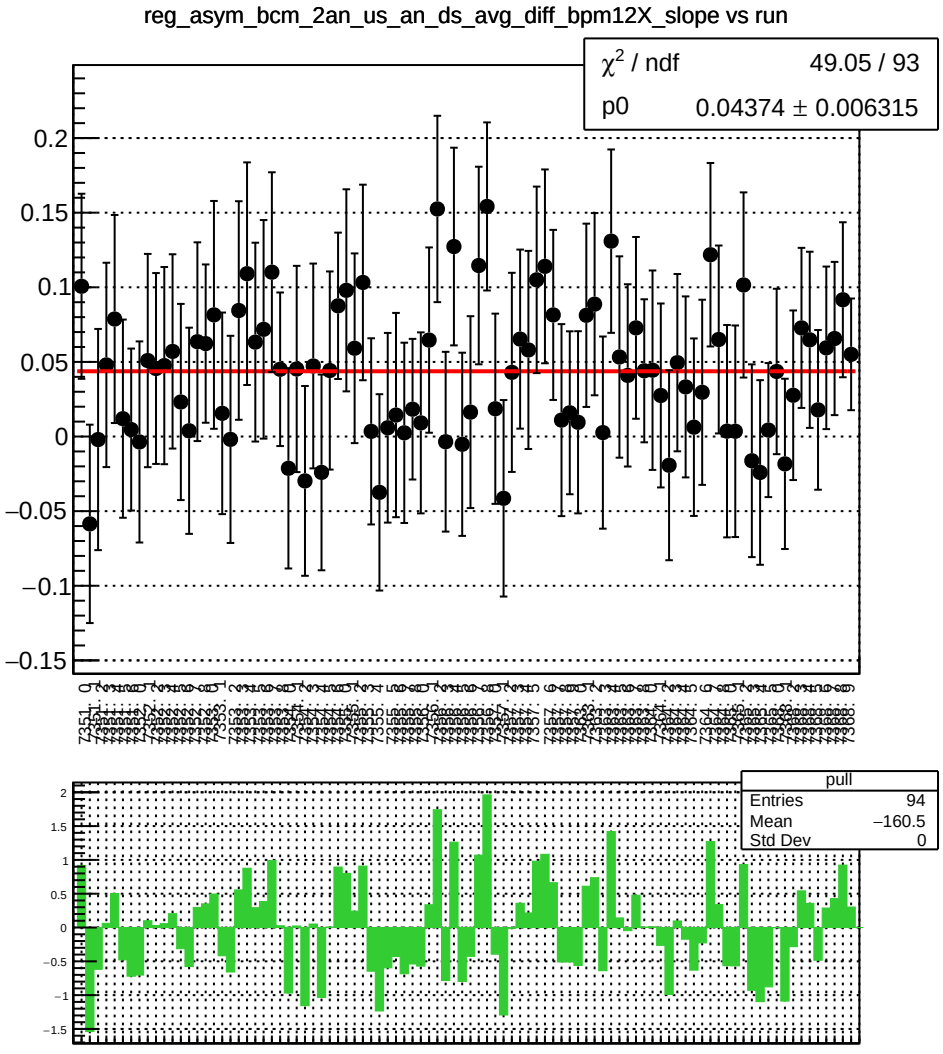

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 158.2 / 93
p0 −4.482 ± 0.1346
pull
Entries 94
Mean −0.006017
Std Dev 0
pull1D
Entries 94
Mean −0.1064
Std Dev 1.293

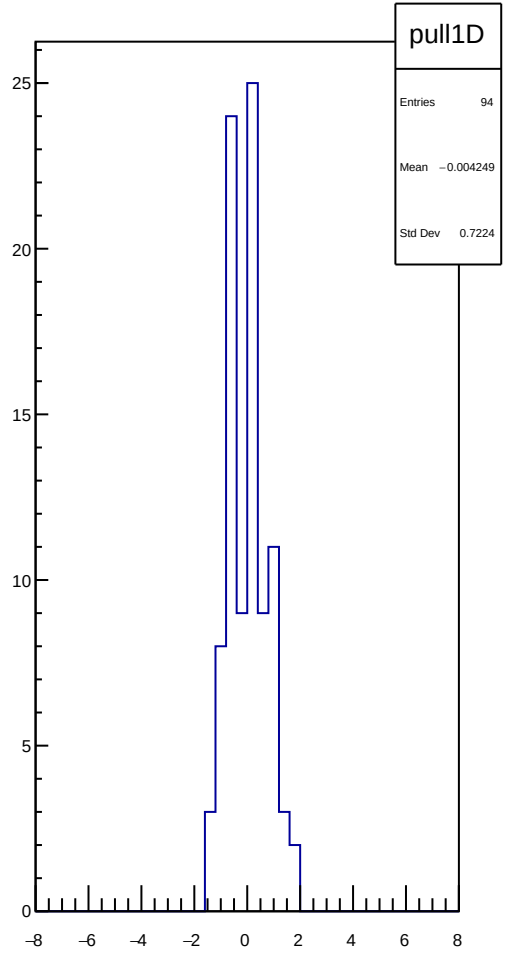

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 90.75 / 93
p0 −0.8943 ± 0.13
pull
Entries 94
Mean −76.47
Std Dev 0
pull1D
Entries 94
Mean −0.04156
Std Dev 0.9817

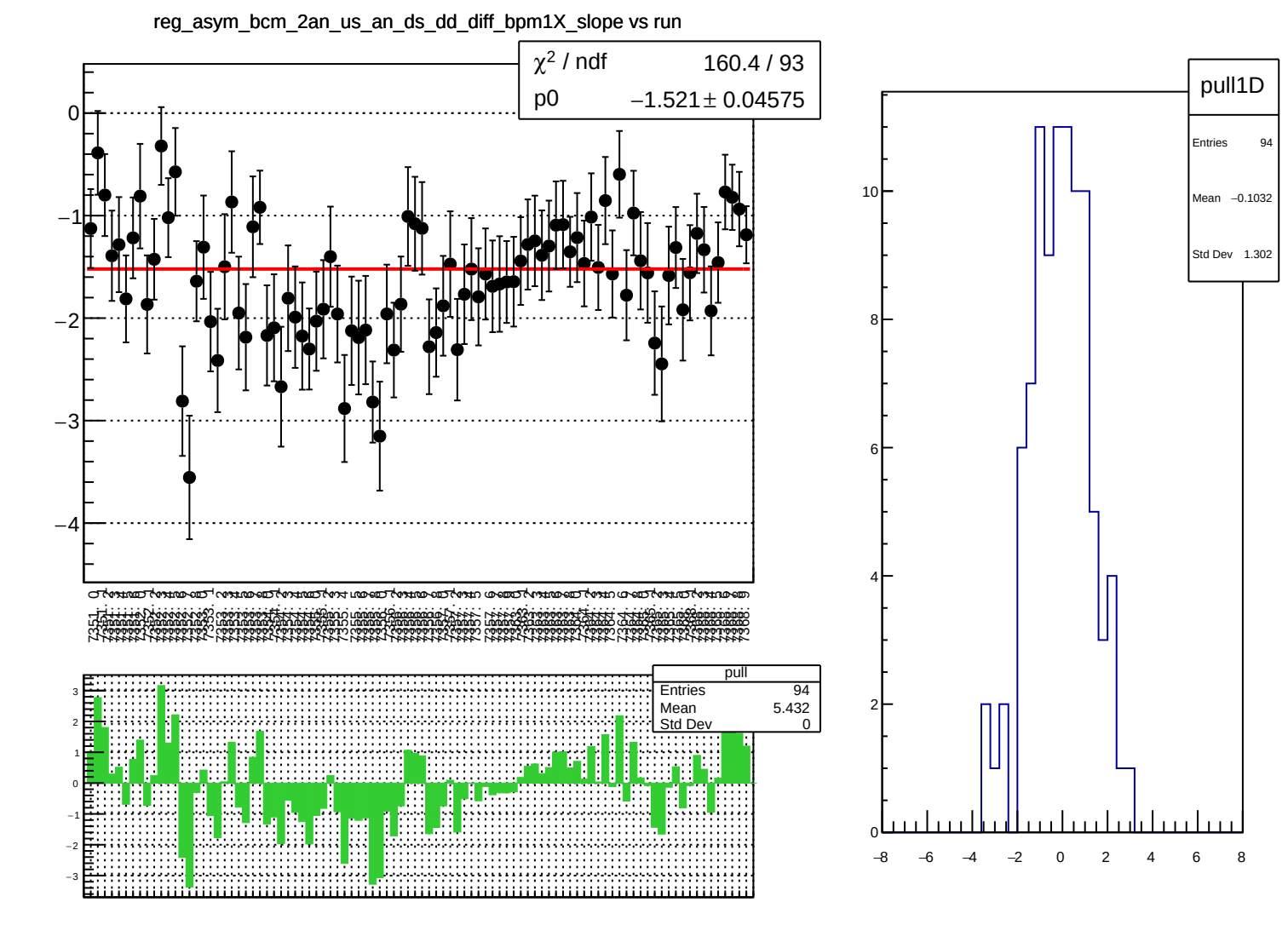

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 155.7 / 93
p0 4.37 ± 0.1339
pull
Entries 94
Mean −2.879
Std Dev 0

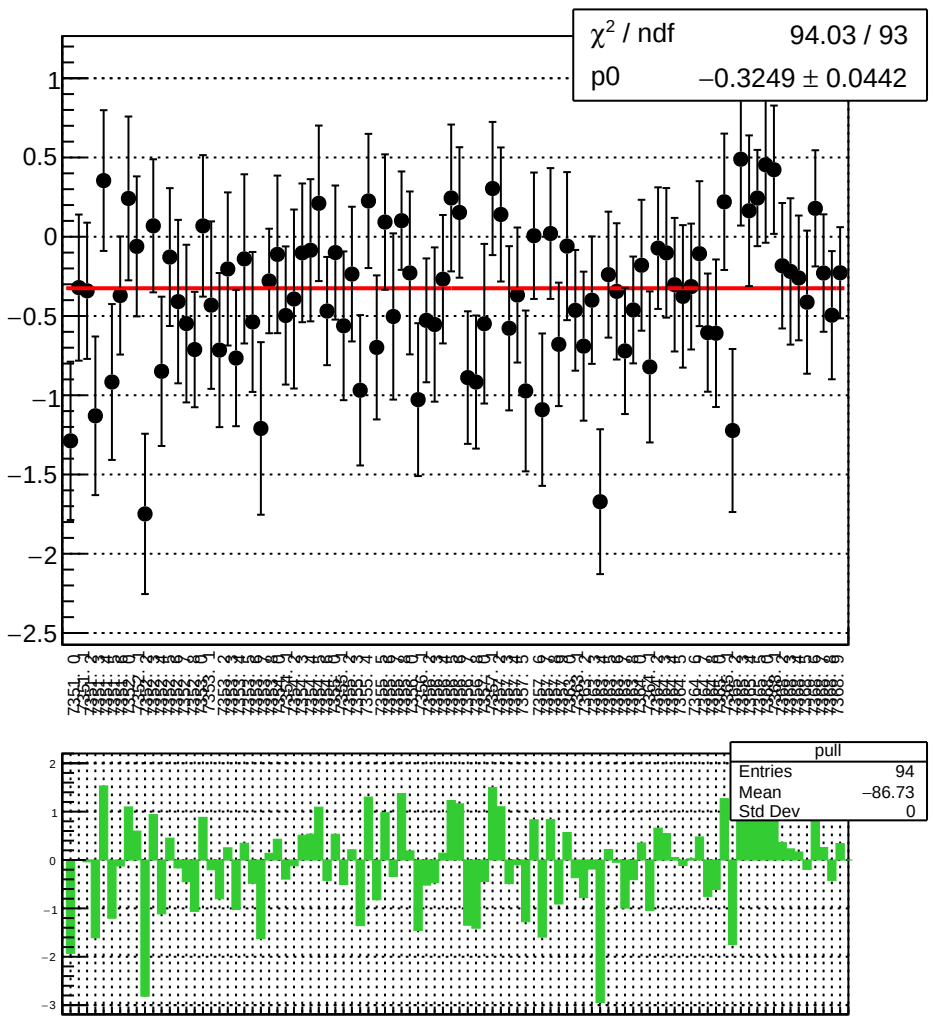

pull1D
Entries 94
Mean 0.09493
Std Dev 1.283

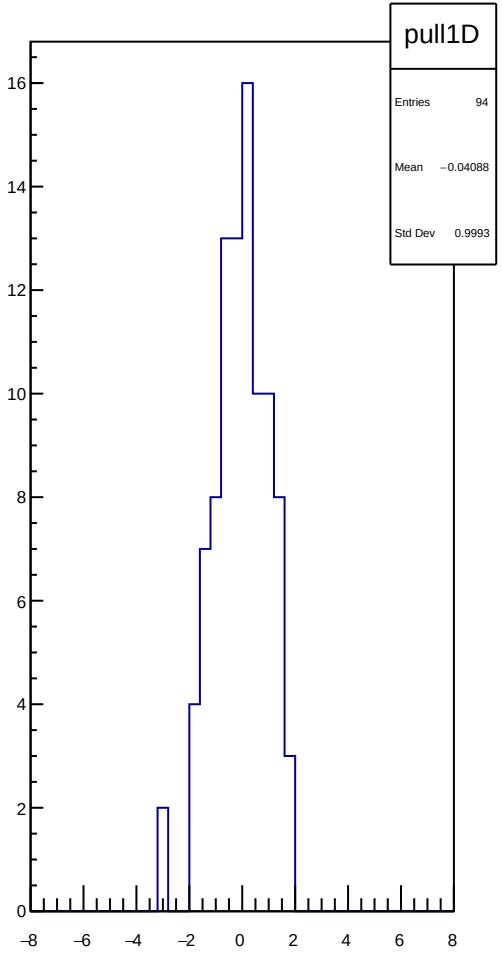

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 92.26 / 93
p0 0.121 ± 0.1374
pull
Entries 94
Mean −48.74
Std Dev 0
pull1D
Entries 94
Mean 0.01594
Std Dev 0.9906

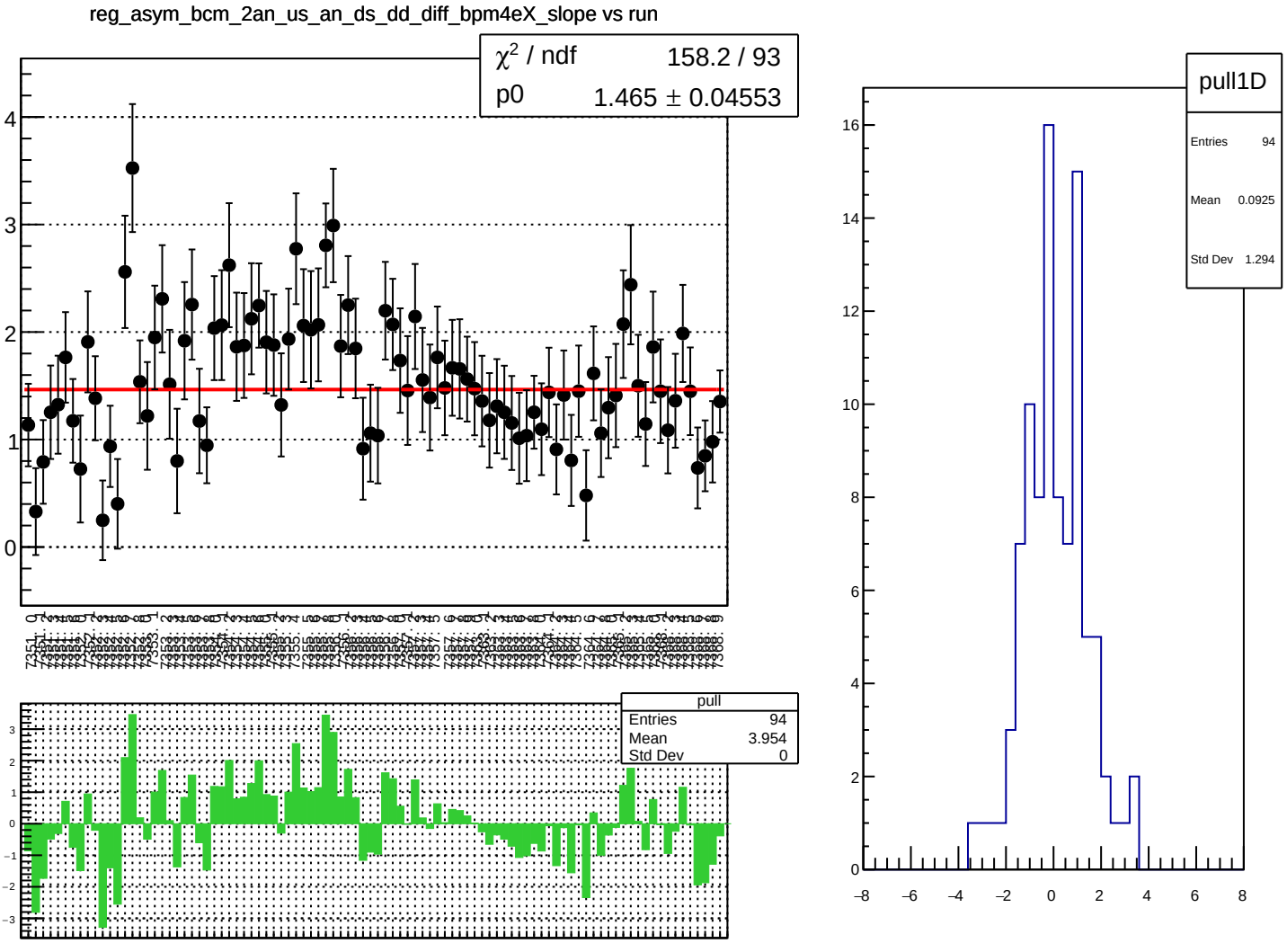

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 49.05 / 93
p0 0.04374 ± 0.006315
pull
Entries 94
Mean −160.5
Std Dev 0

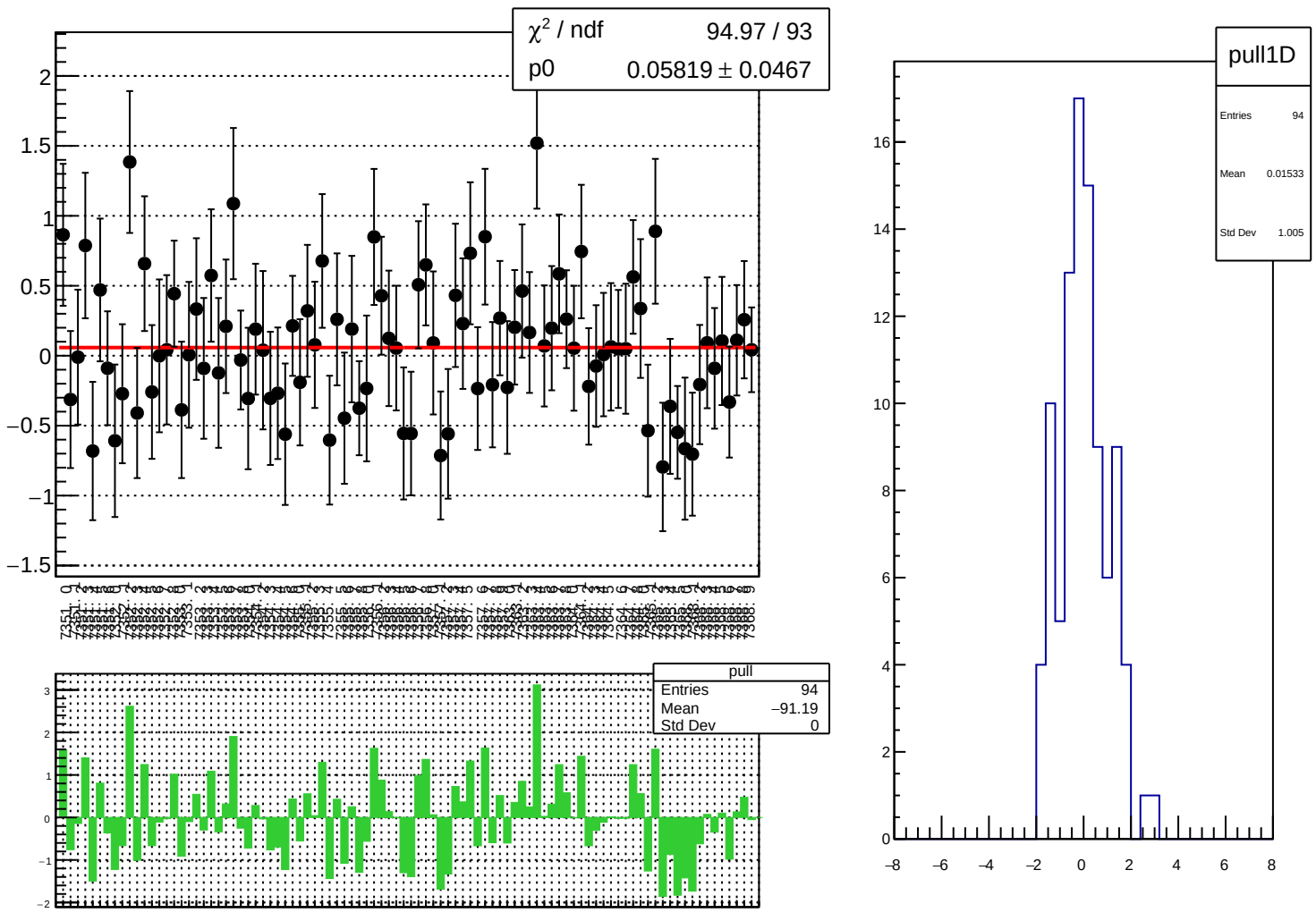

pull1D
Entries 94
Mean −0.004249
Std Dev 0.7224

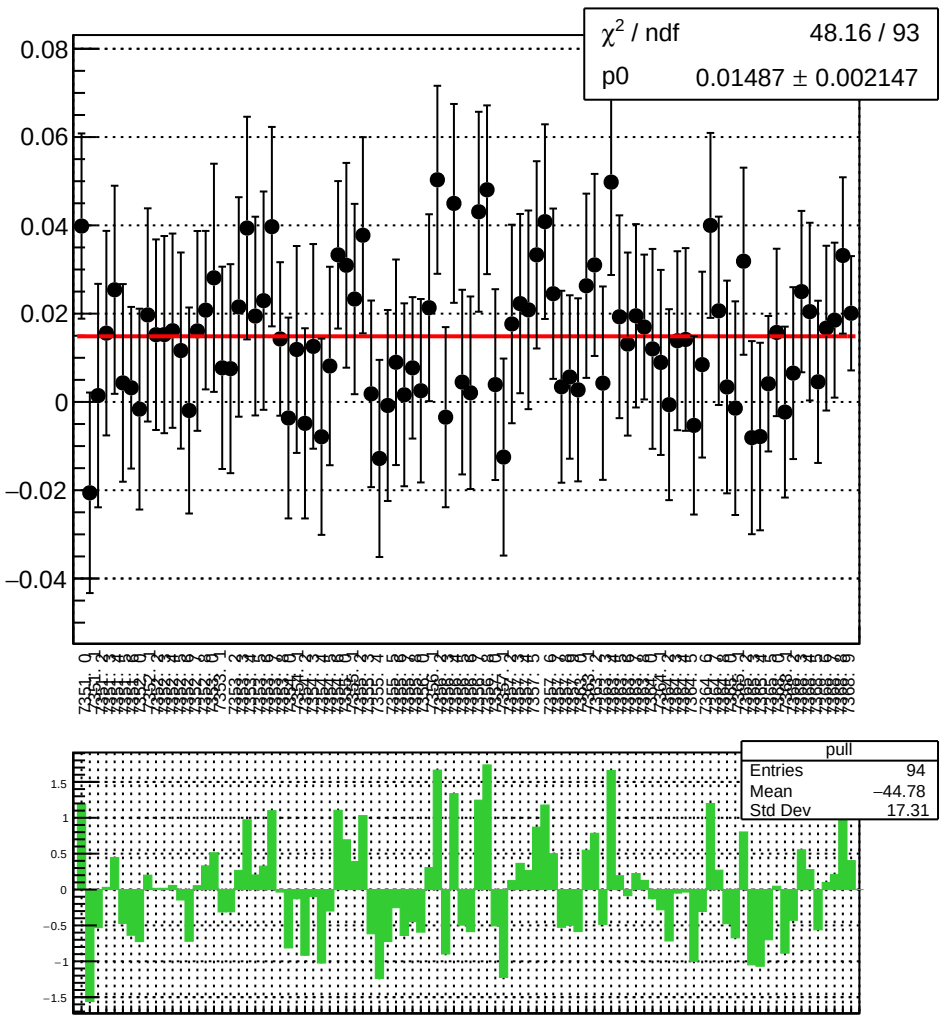

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 160.4 / 93
p0 −1.521 ± 0.04575
pull
Entries 94
Mean 5.432
Std Dev 0
pull1D
Entries 94
Mean −0.1032
Std Dev 1.302

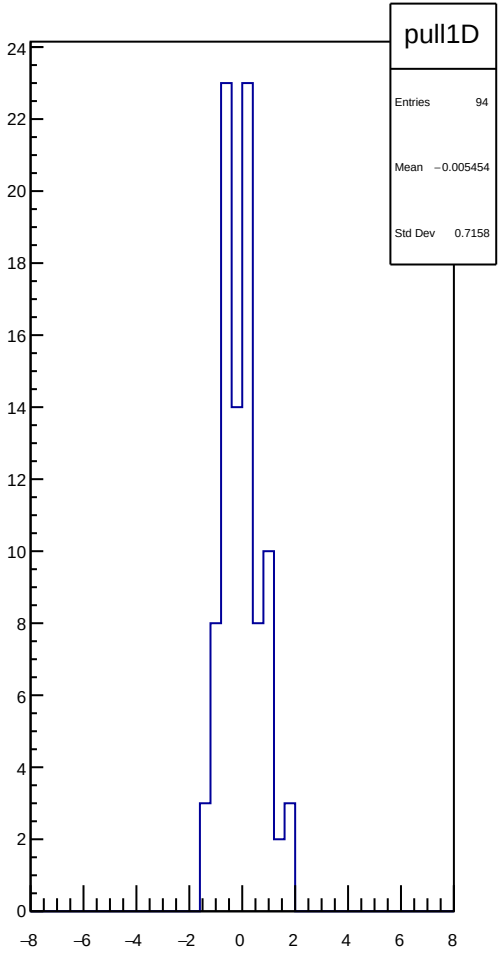

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 94.03 / 93
p0 −0.3249 ± 0.0442
pull
Entries 94
Mean −86.73
Std Dev 0

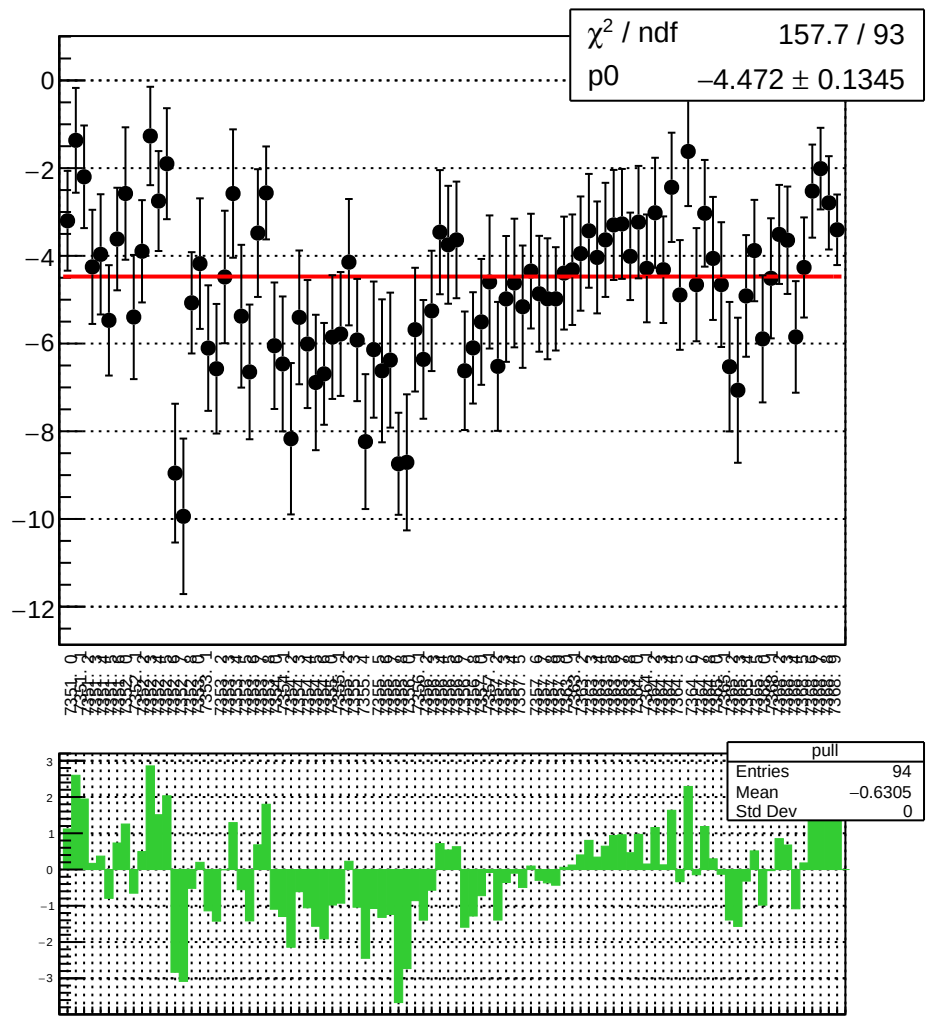

pull1D
Entries 94
Mean −0.04088
Std Dev 0.9993

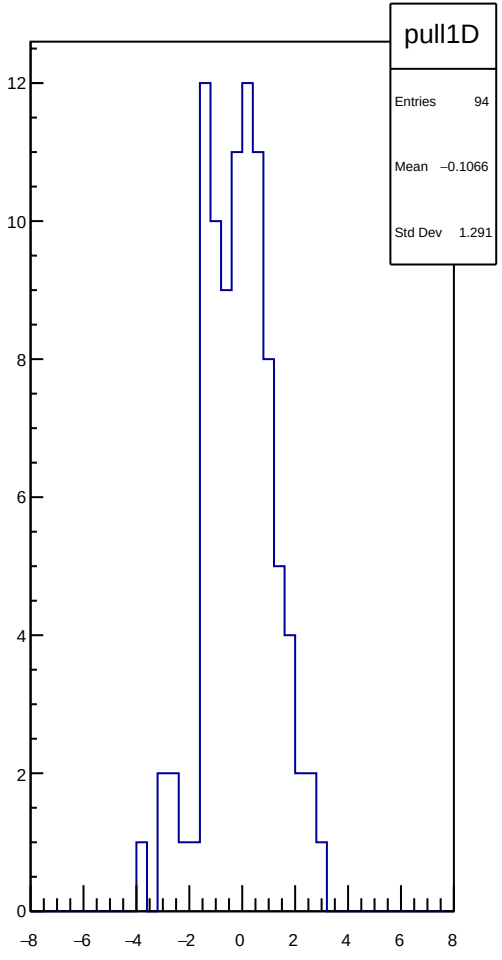

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 158.2 / 93
p0 1.465 ± 0.04553
pull
Entries 94
Mean 3.954
Std Dev 0
pull1D
Entries 94
Mean 0.0925
Std Dev 1.294

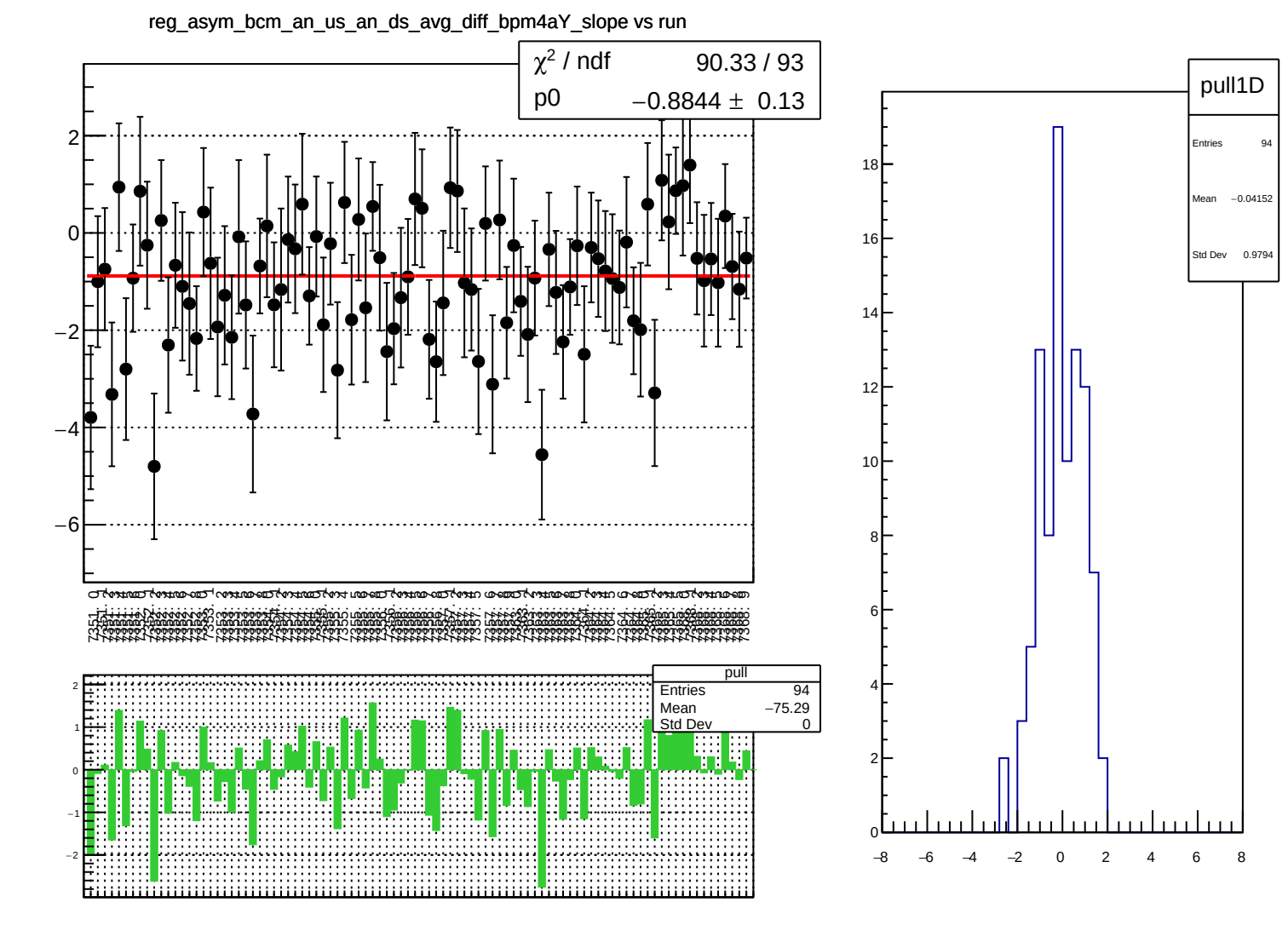

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 94.97 / 93
p0 0.05819 ± 0.0467
pull
Entries 94
Mean −91.19
Std Dev 0
pull1D
Entries 94
Mean 0.01533
Std Dev 1.005

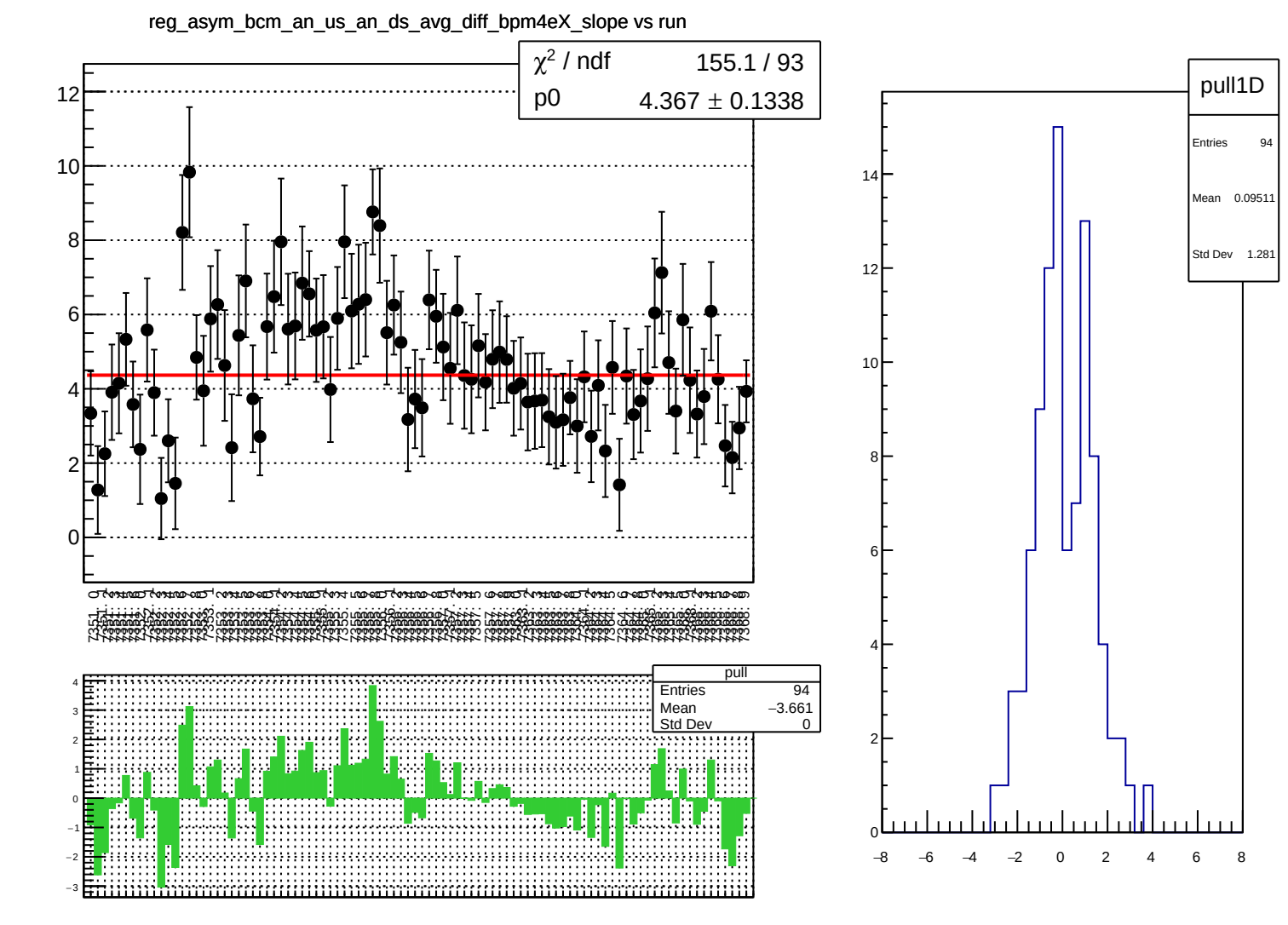

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 48.16 / 93
p0 0.01487 ± 0.002147
pull
Entries 94
Mean −44.78
Std Dev 17.31

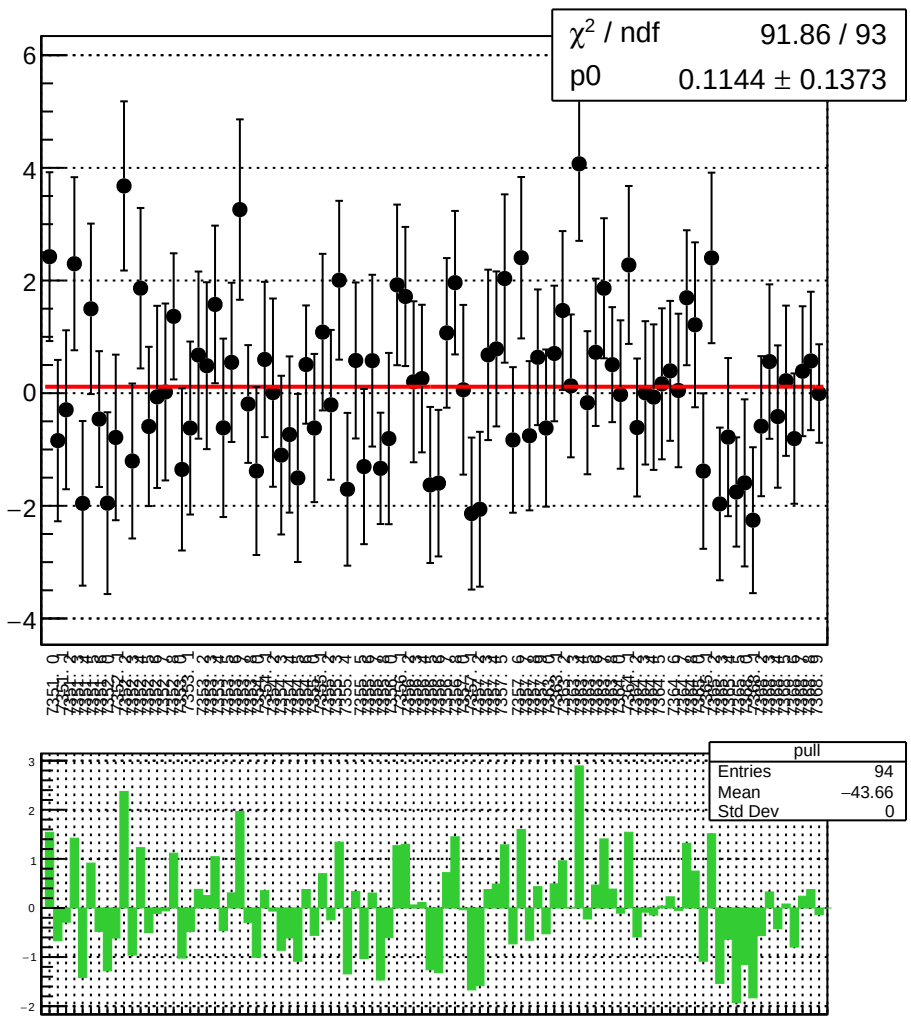

pull1D
Entries 94
Mean −0.005454
Std Dev 0.7158

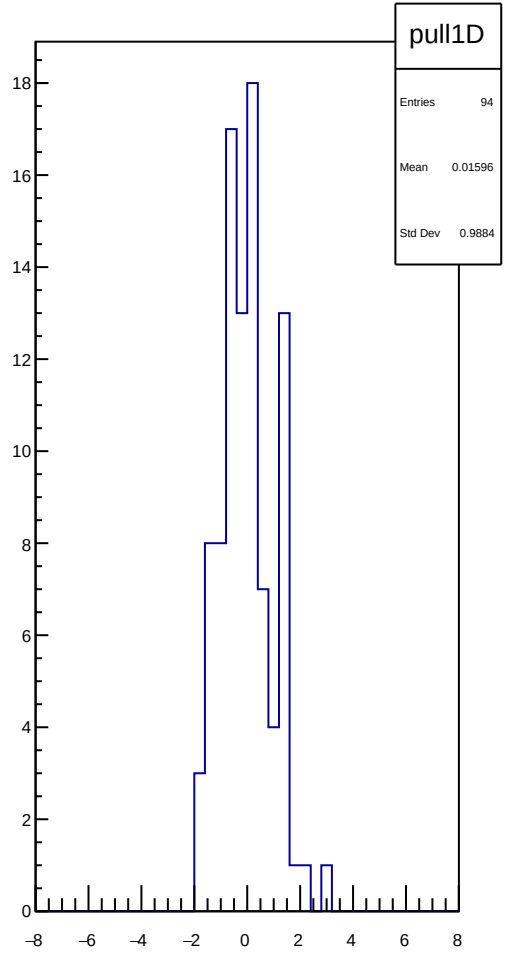

reg_asym_bcm_an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 157.7 / 93
p0 −4.472 ± 0.1345
pull
Entries 94
Mean −0.6305
Std Dev 0

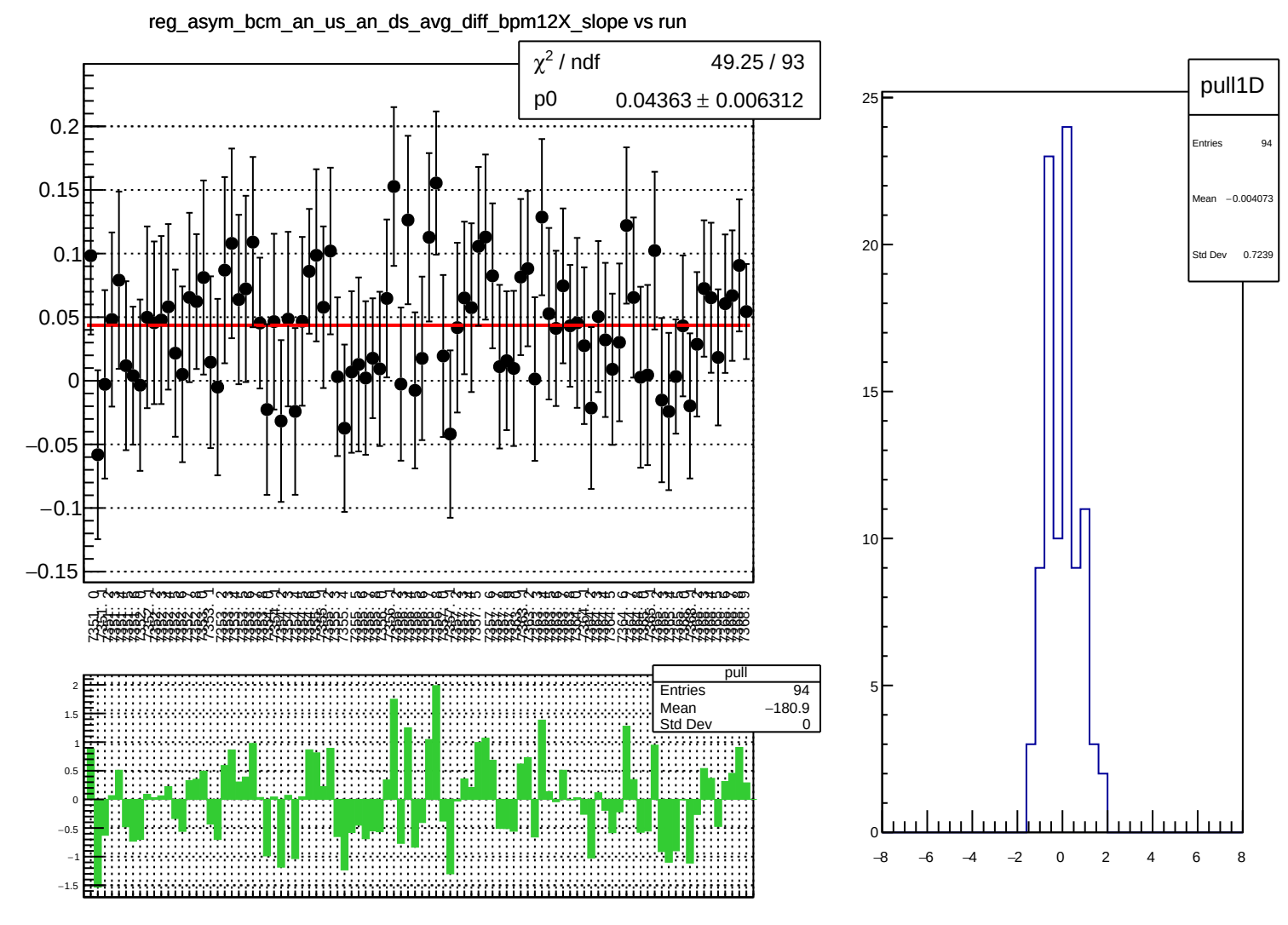

pull1D
Entries 94
Mean −0.1066
Std Dev 1.291

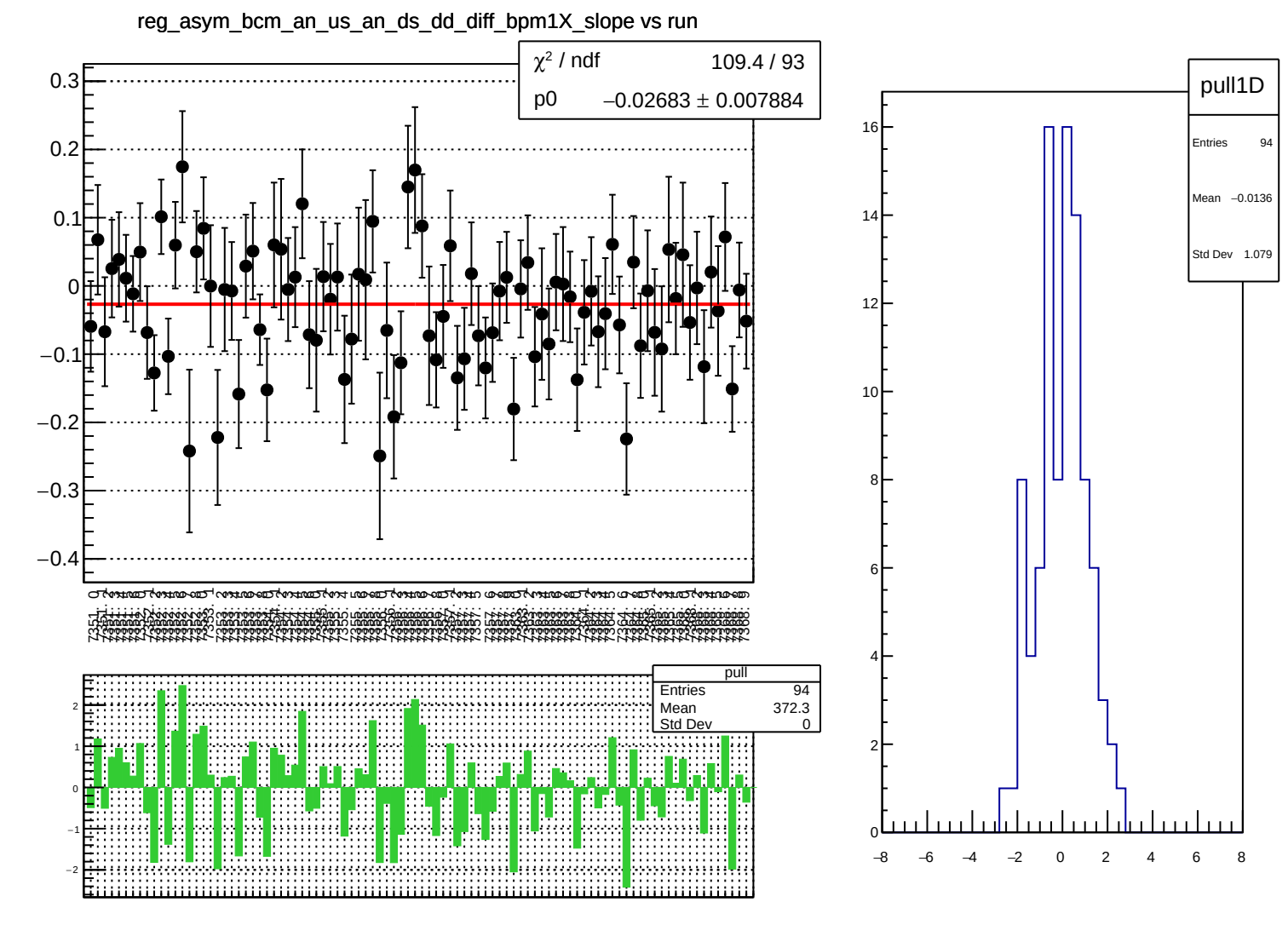

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 90.33 / 93
p0 −0.8844 ± 0.13
pull
Entries 94
Mean −75.29
Std Dev 0
pull1D
Entries 94
Mean −0.04152
Std Dev 0.9794

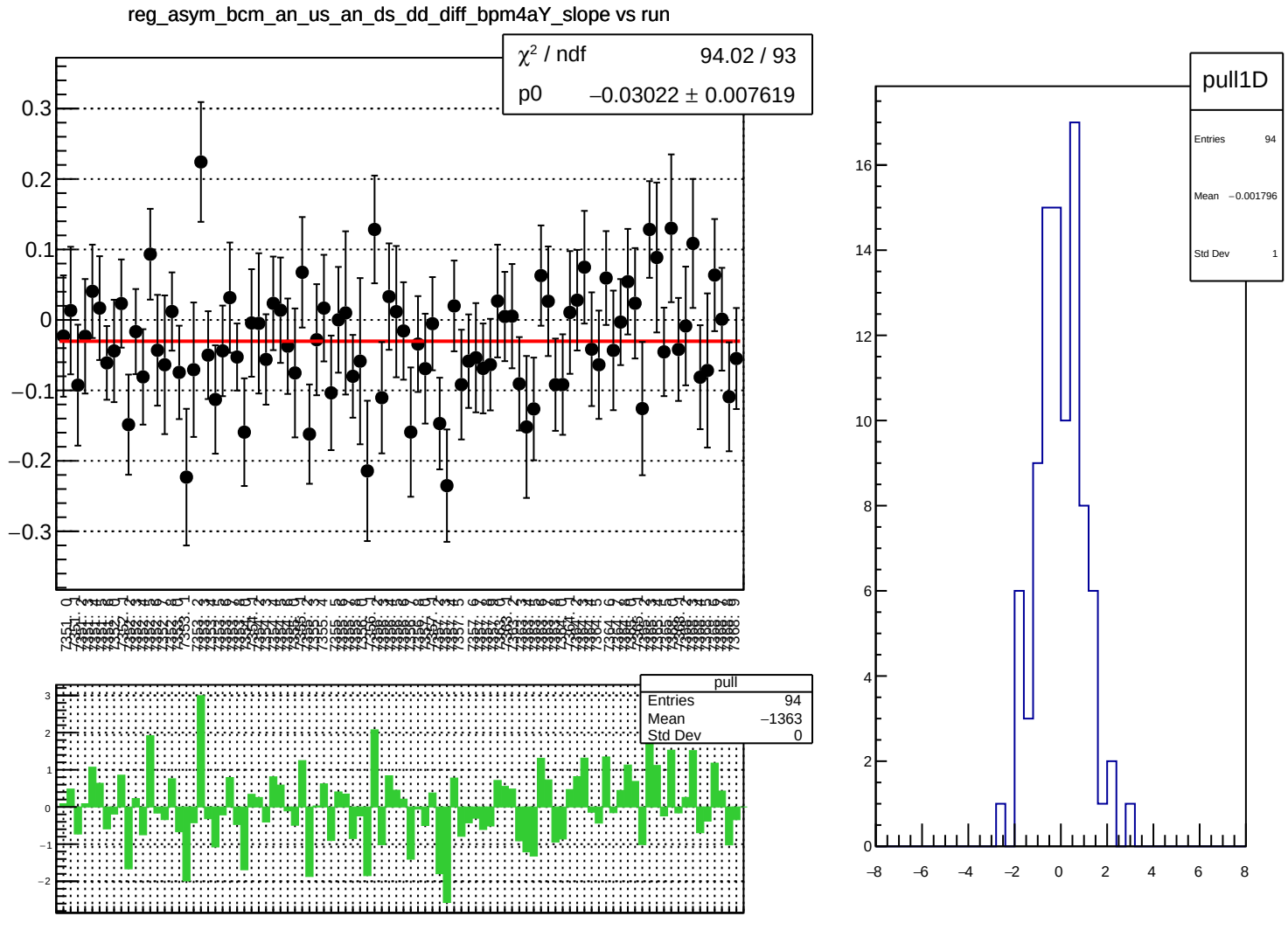

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 155.1 / 93
p0 4.367 ± 0.1338
pull
Entries 94
Mean −3.661
Std Dev 0
pull1D
Entries 94
Mean 0.09511
Std Dev 1.281

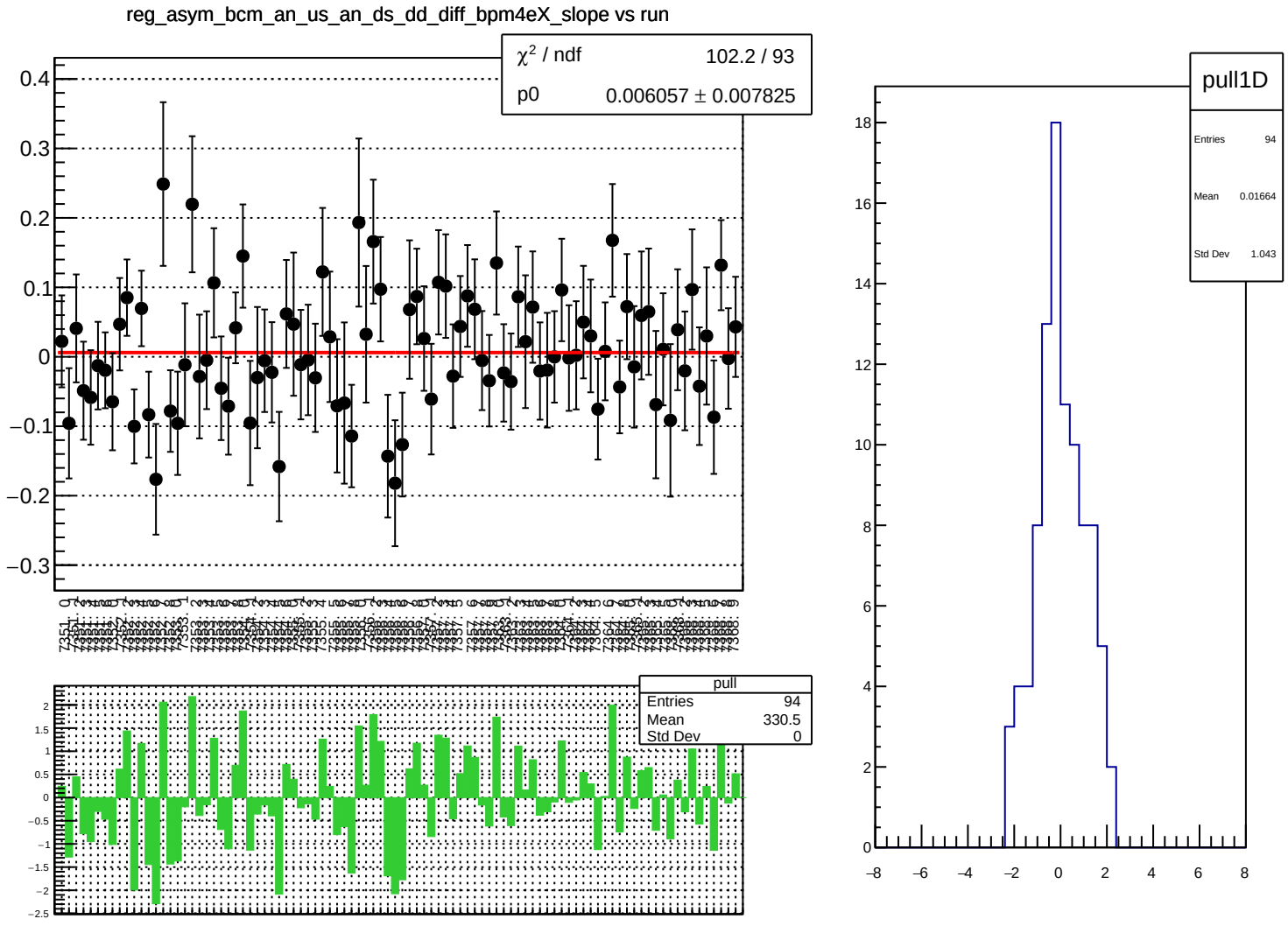

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 91.86 / 93
p0 0.1144 ± 0.1373
pull
Entries 94
Mean −43.66
Std Dev 0

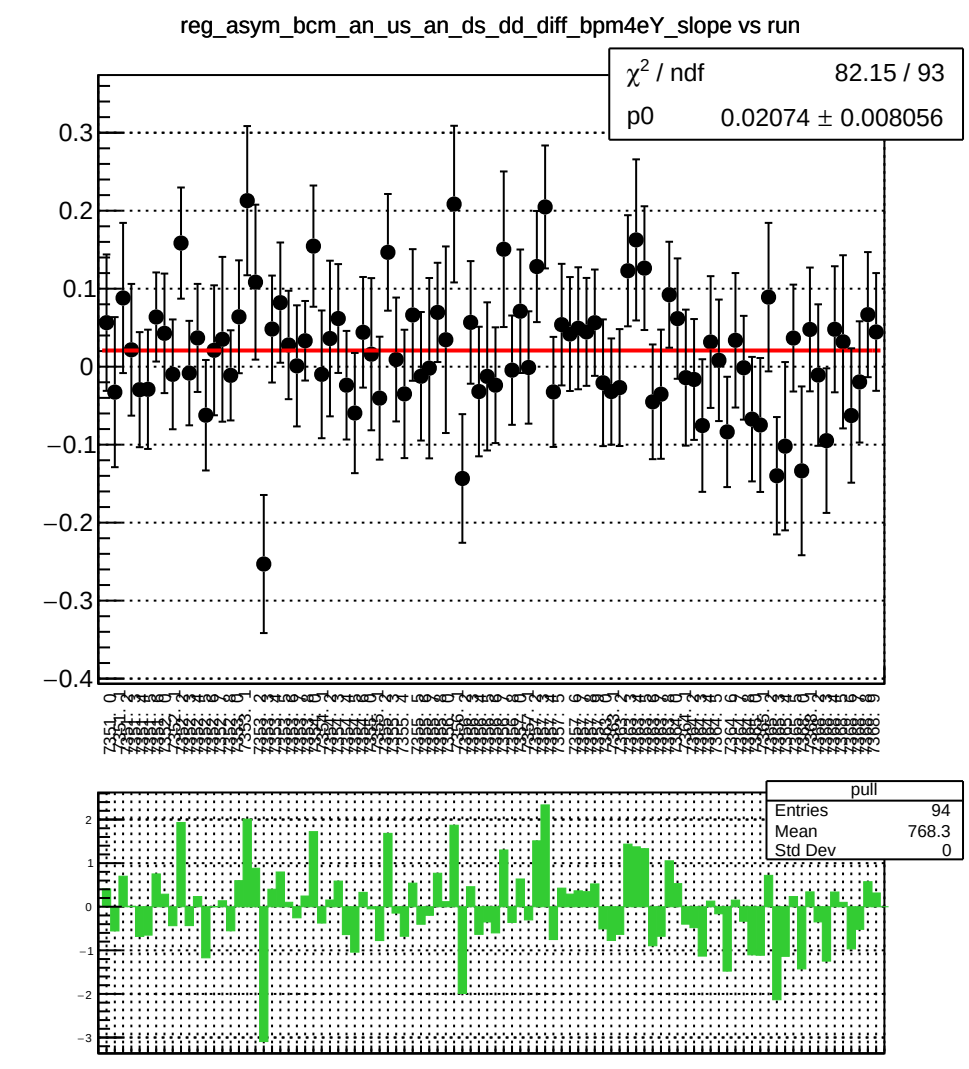

pull1D
Entries 94
Mean 0.01596
Std Dev 0.9884

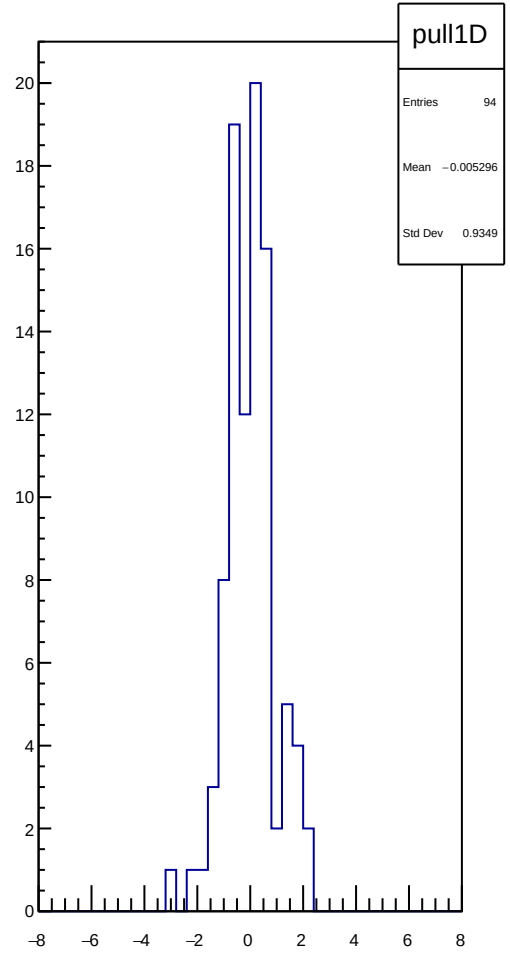

reg_asym_bcm_an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 49.25 / 93
p0 0.04363 ± 0.006312
pull
Entries 94
Mean −180.9
Std Dev 0
pull1D
Entries 94
Mean −0.004073
Std Dev 0.7239

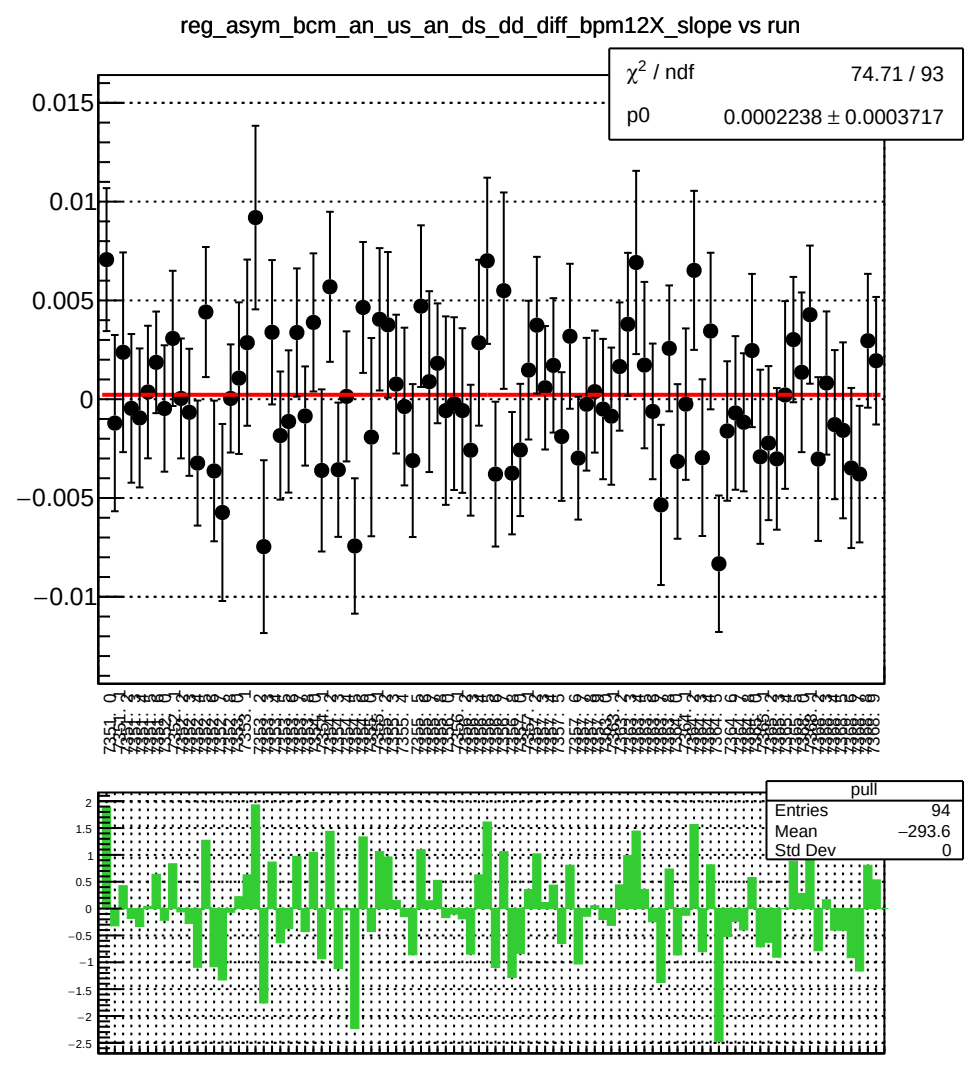

reg_asym_bcm_an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 109.4 / 93
p0 −0.02683 ± 0.007884
pull
Entries 94
Mean 372.3
Std Dev 0
pull1D
Entries 94
Mean −0.0136
Std Dev 1.079

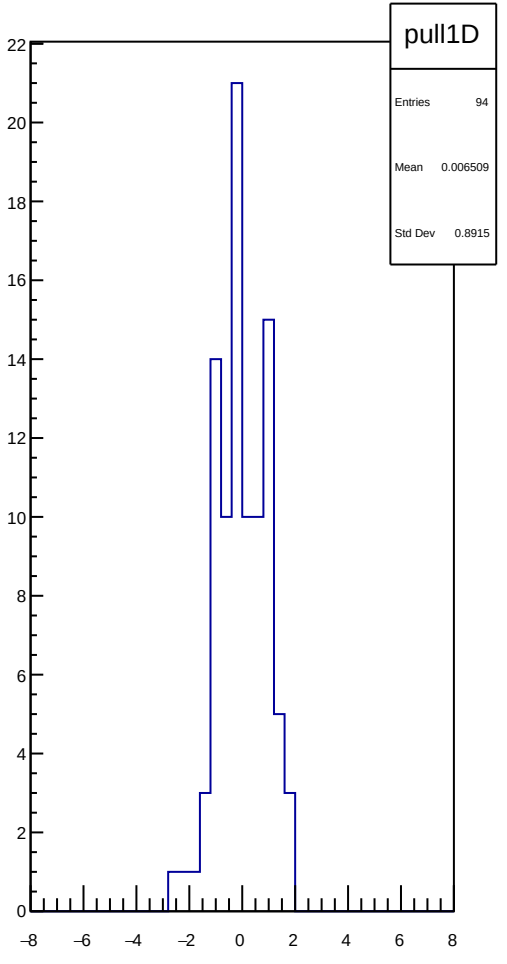

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 94.02 / 93
p0 −0.03022 ± 0.007619
pull
Entries 94
Mean −1363
Std Dev 0
pull1D
Entries 94
Mean −0.001796
Std Dev 1

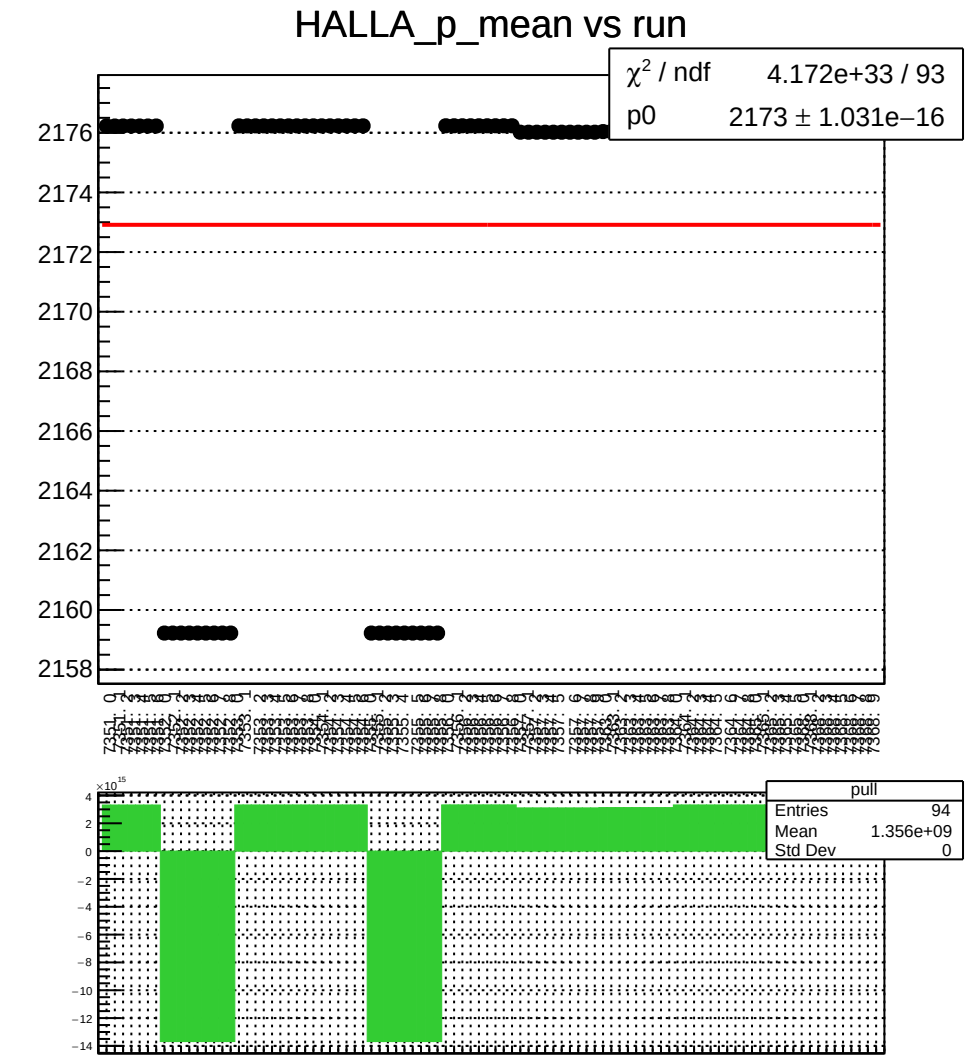

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 102.2 / 93
p0 0.006057 ± 0.007825
pull
Entries 94
Mean 330.5
Std Dev 0
pull1D
Entries 94
Mean 0.01664
Std Dev 1.043

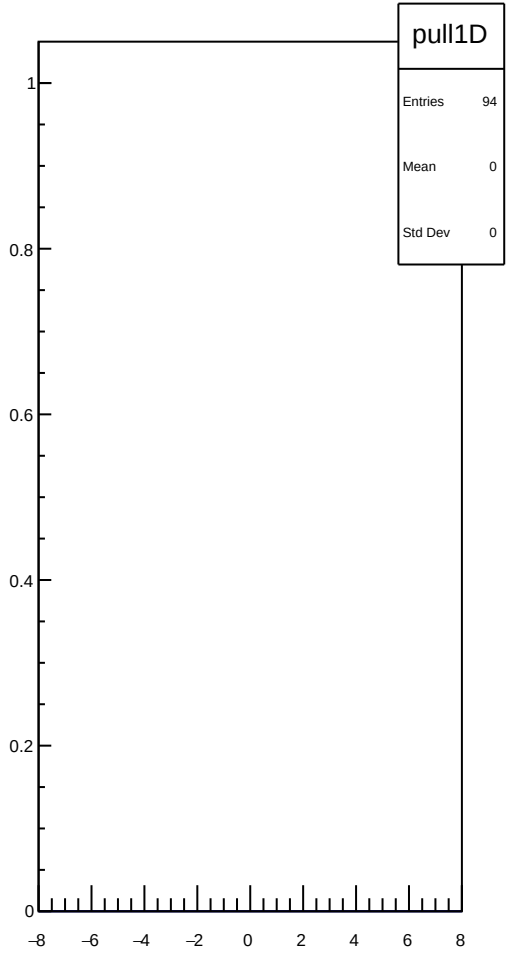

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 82.15 / 93
p0 0.02074 ± 0.008056
pull
Entries 94
Mean 768.3
Std Dev 0

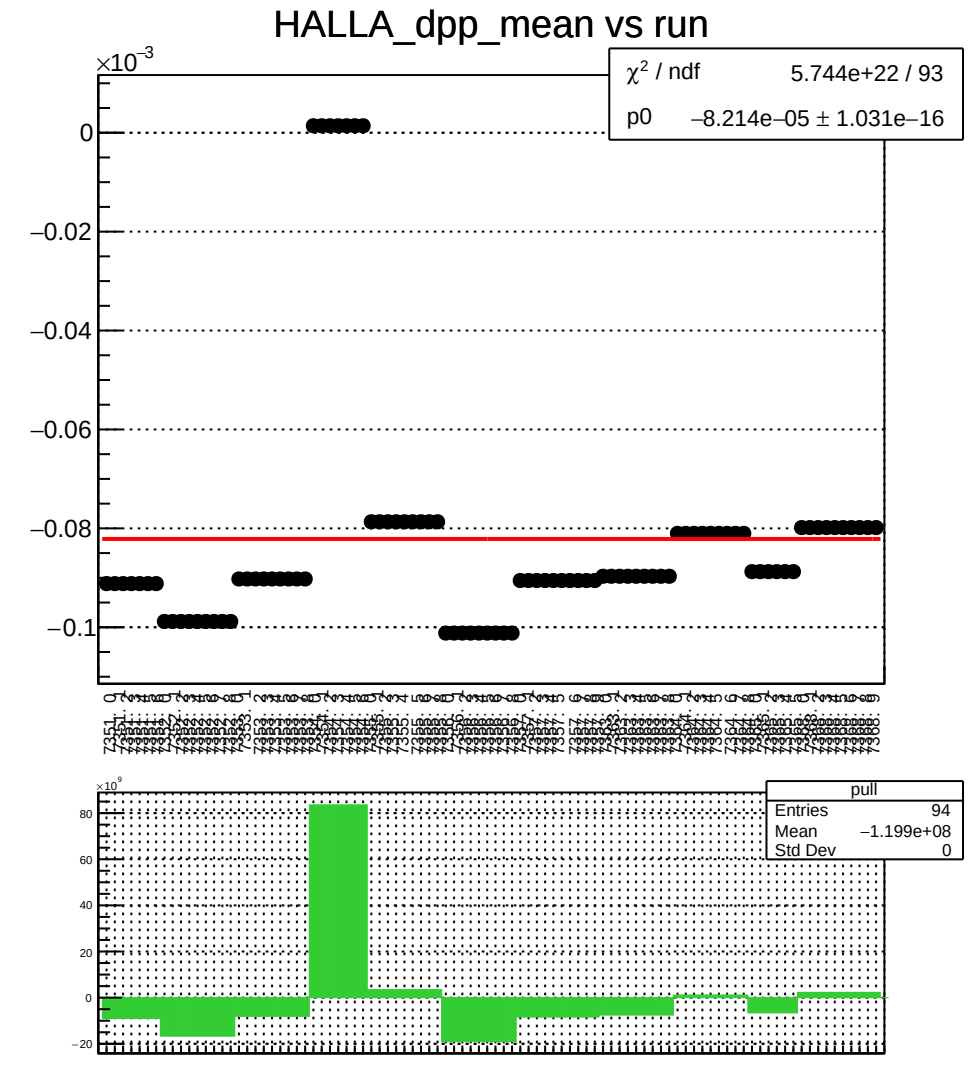

pull1D
Entries 94
Mean −0.005296
Std Dev 0.9349

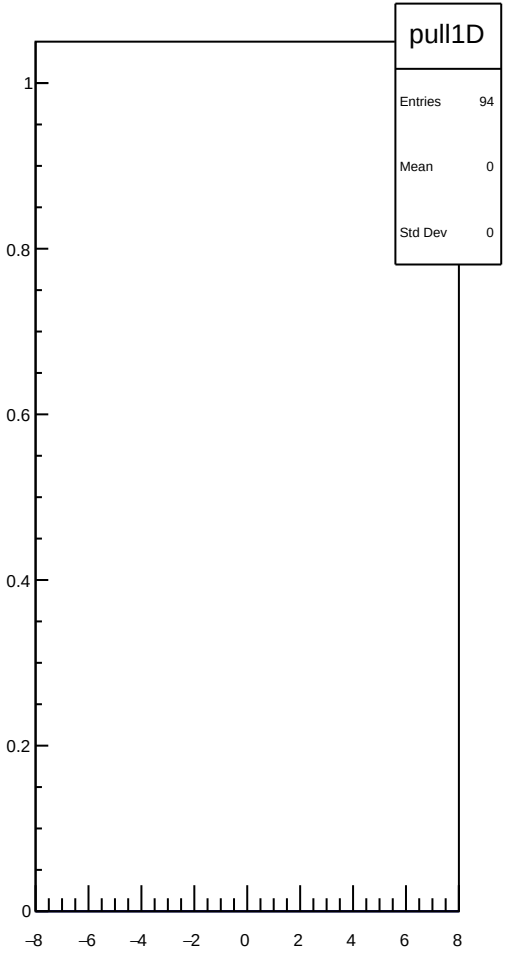

reg_asym_bcm_an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 74.71 / 93
p0 0.0002238 ± 0.0003717
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 94
Mean −293.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

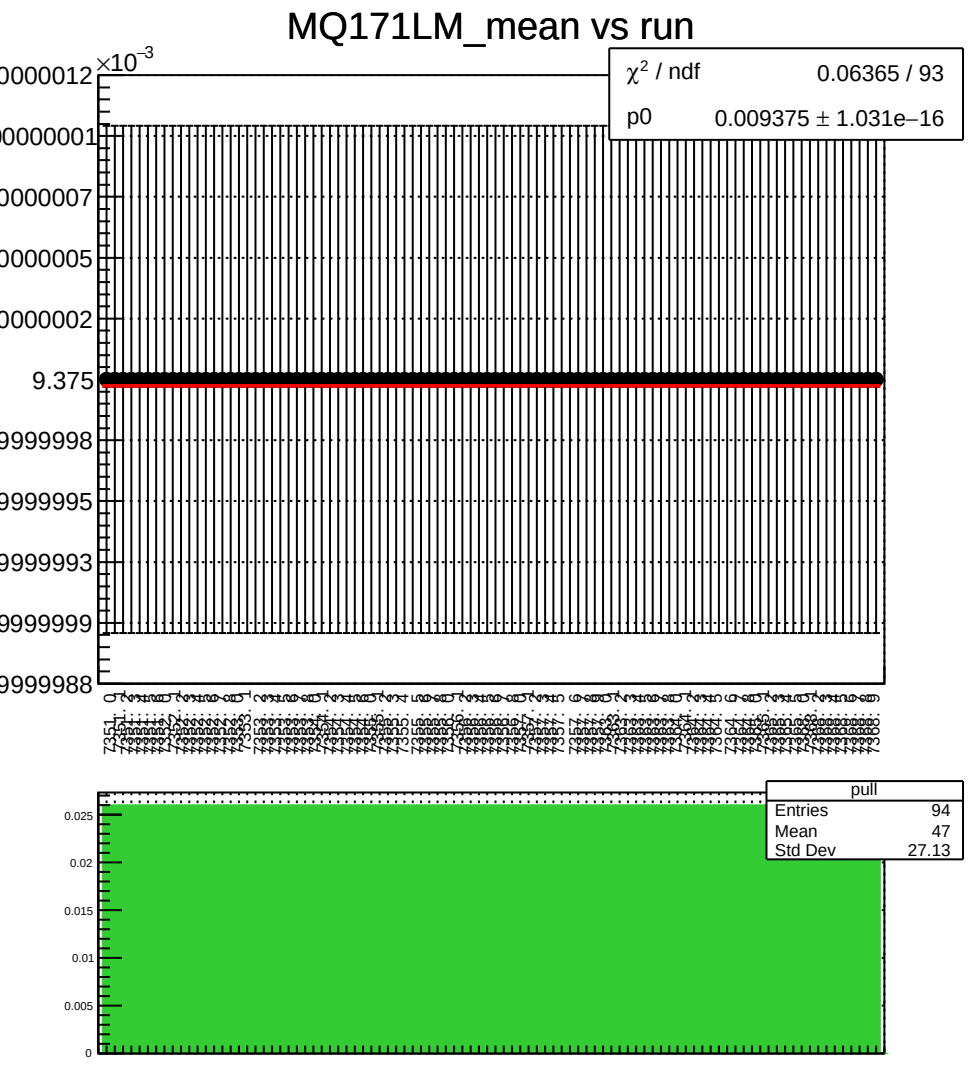

pull1D
Entries 94
Mean 0.006509
Std Dev 0.8915
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

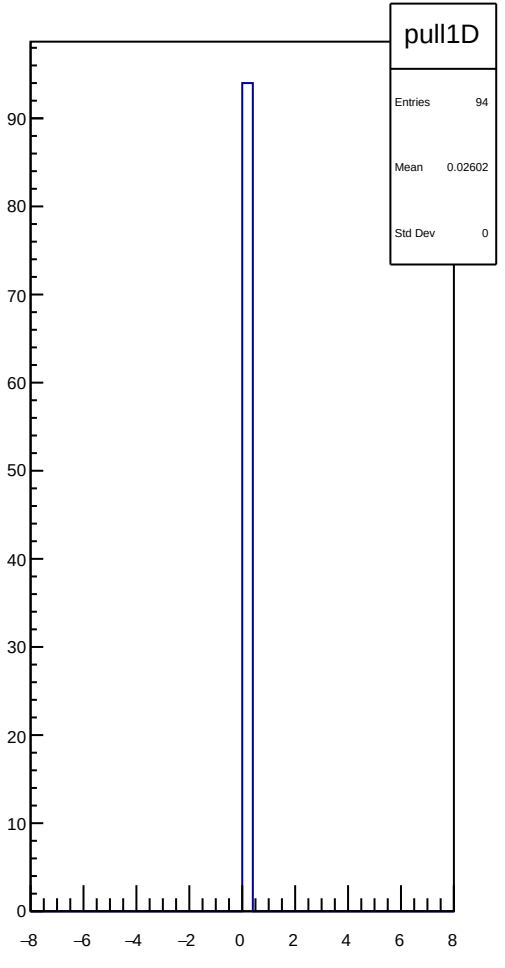

HALLA_p_mean vs run
χ^2 / ndf 4.172e+33 / 93
p0 2173 ± 1.031e−16
2176
2174
2172
2170
2168
2166
2164
2162
2160
2158
pull
Entries 94
Mean 1.356e+09
Std Dev 0
×10^15
4
2
0
−2
−4
−6
−8
−10
−12
−14

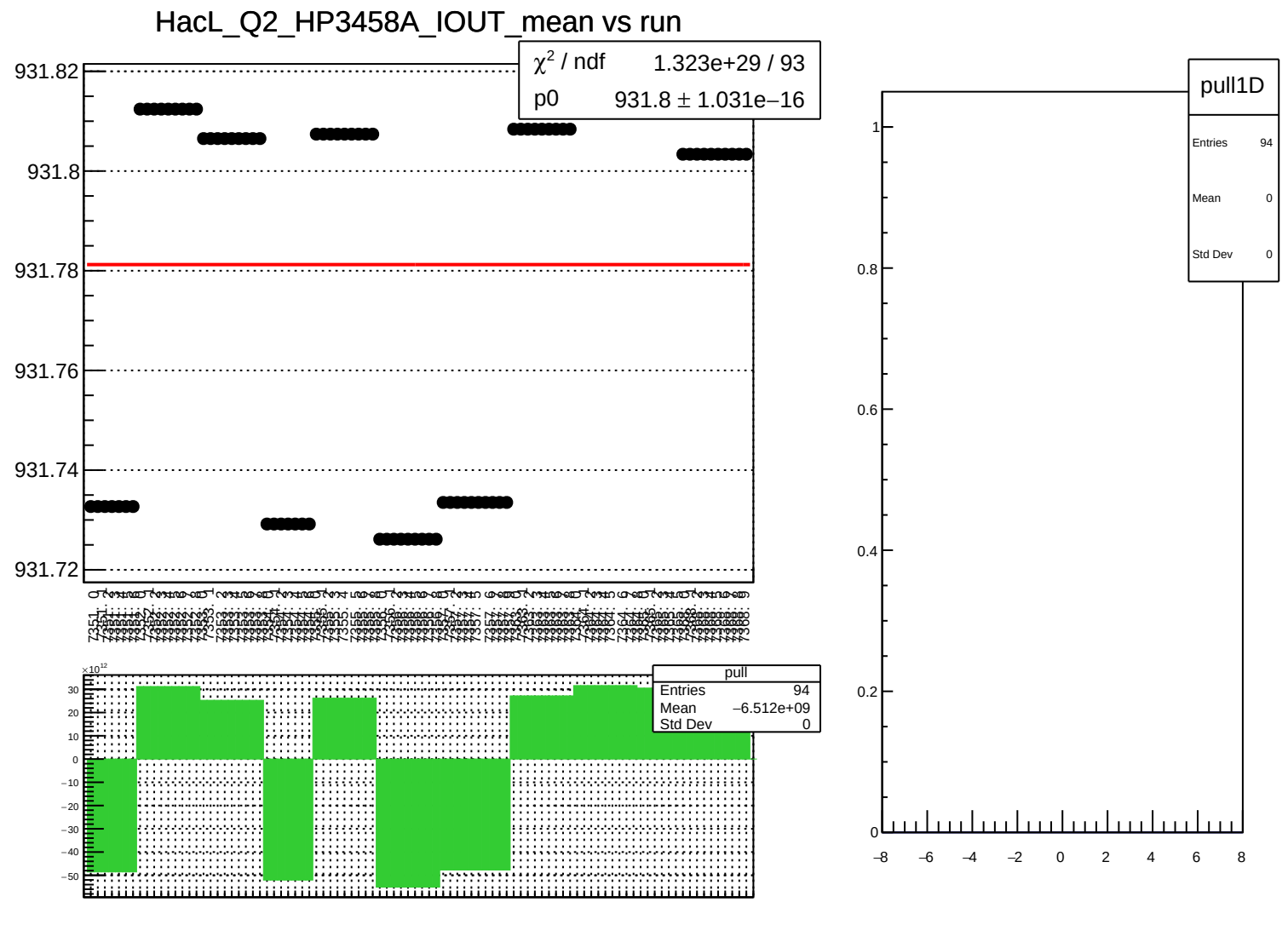

pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

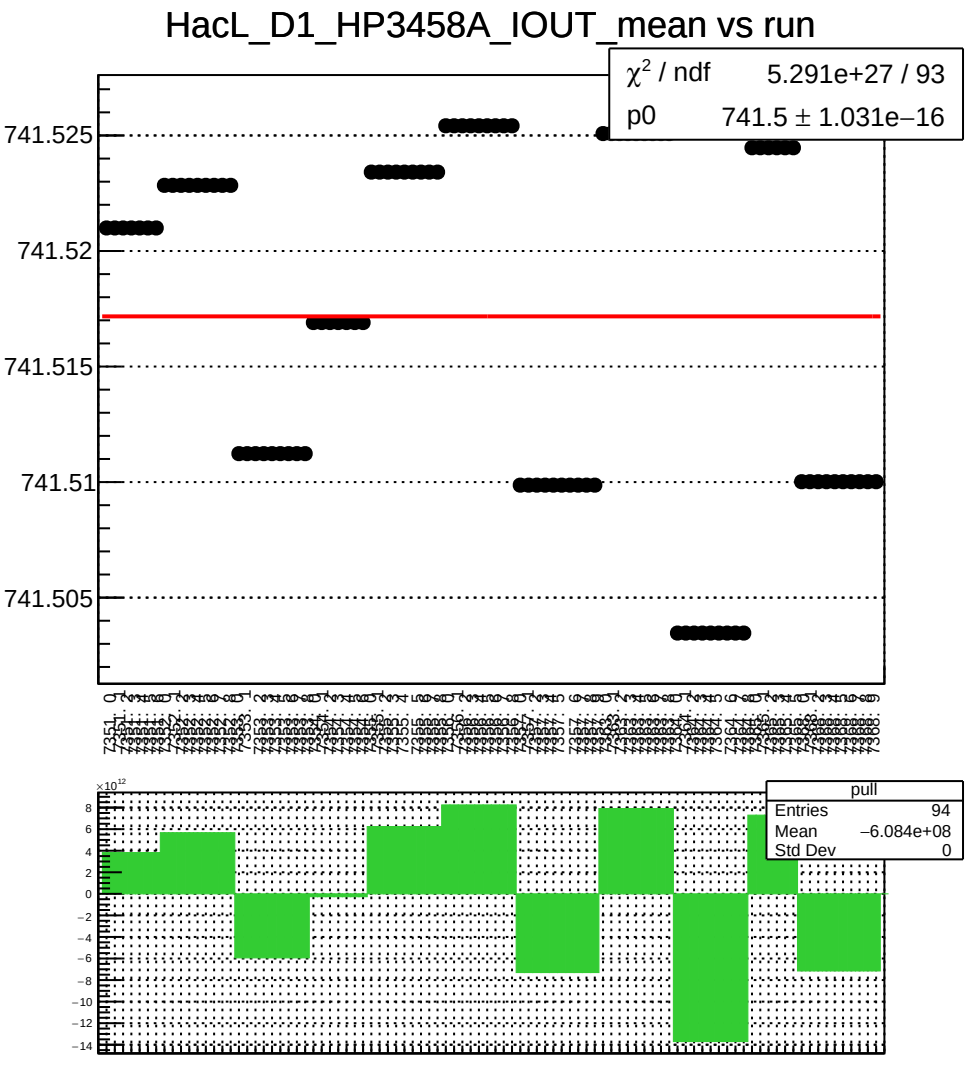

HALLA_dpp_mean vs run
×10⁻³
χ² / ndf 5.744e+22 / 93
p0 −8.214e−05 ± 1.031e−16
0
−0.02
−0.04
−0.06
−0.08
−0.1
×10⁹
80
60
40
20
0
−20
pull
Entries 94
Mean −1.199e+08
Std Dev 0

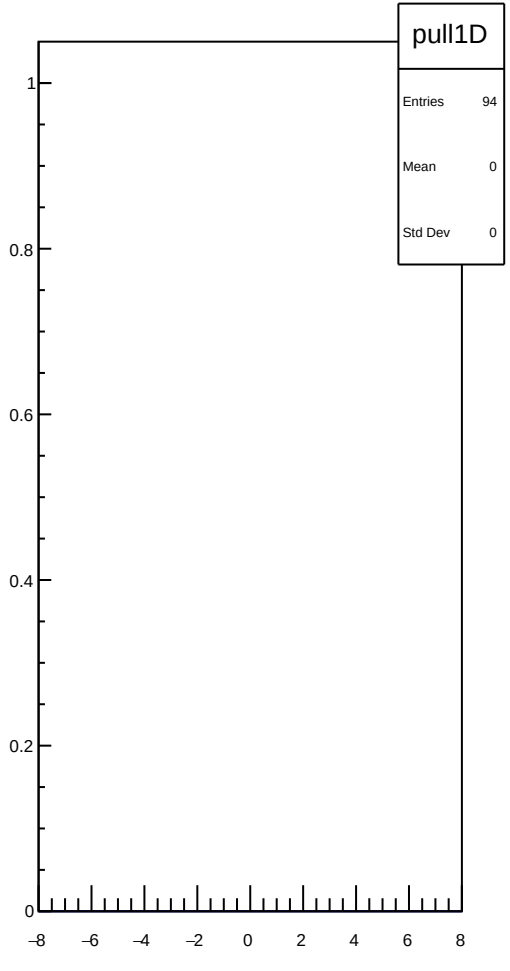

pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

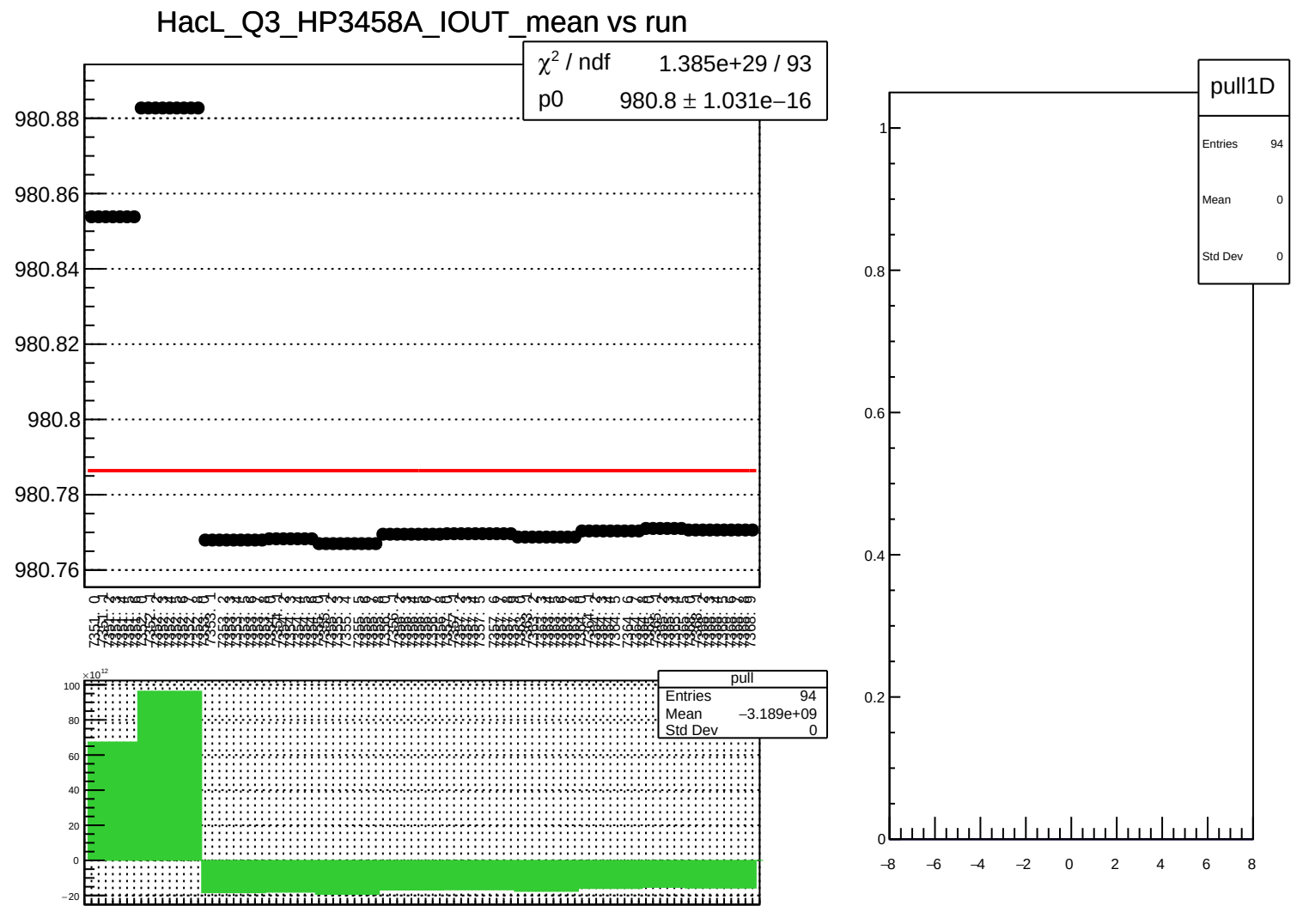

MQ171LM_mean vs run
χ² / ndf 0.06365 / 93
p0 0.009375 ± 1.031e−16
×10⁻³
pull
Entries 94
Mean 47
Std Dev 27.13

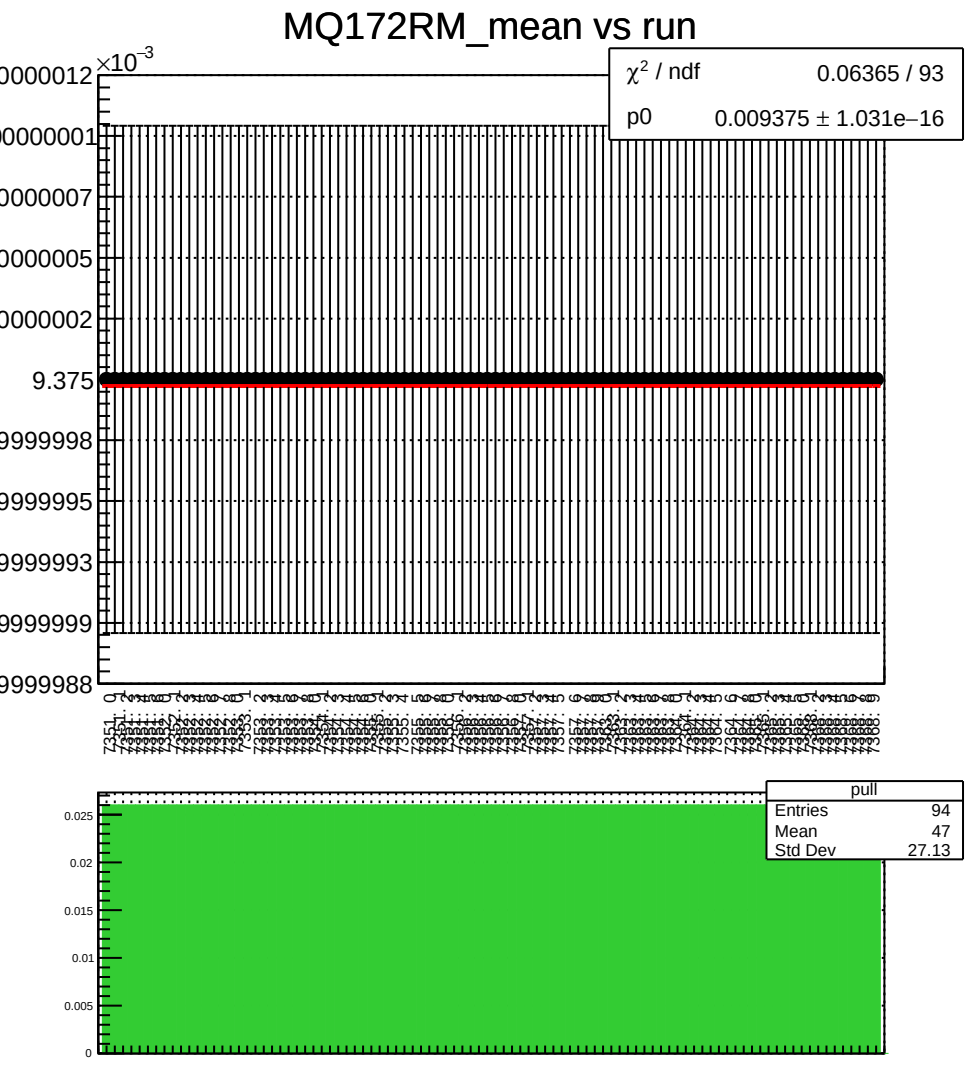

pull1D
Entries 94
Mean 0.02602
Std Dev 0

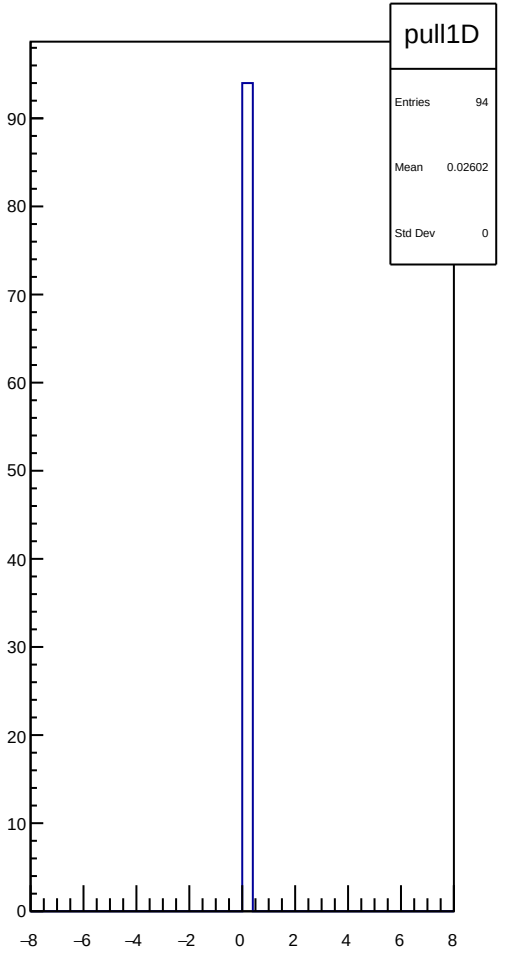

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 1.323e+29 / 93
p0 931.8 ± 1.031e−16
931.82
931.8
931.78
931.76
931.74
931.72
pull
Entries 94
Mean −6.512e+09
Std Dev 0
×10¹²
30
20
10
0
−10
−20
−30
−40
−50
pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

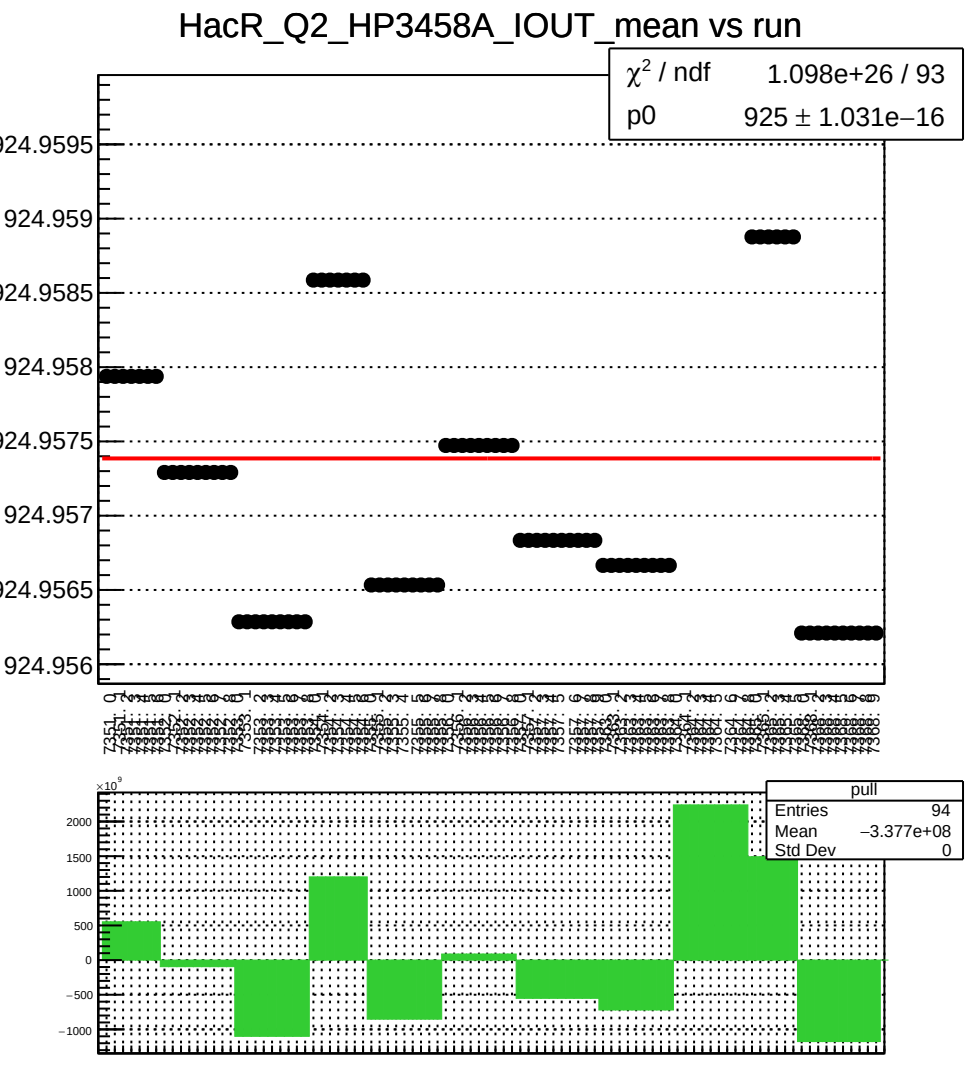

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 5.291e+27 / 93
p0 741.5 ± 1.031e−16
741.525
741.52
741.515
741.51
741.505
pull
Entries 94
Mean −6.084e+08
Std Dev 0
×10¹²
8
6
4
2
0
−2
−4
−6
−8
−10
−12
−14

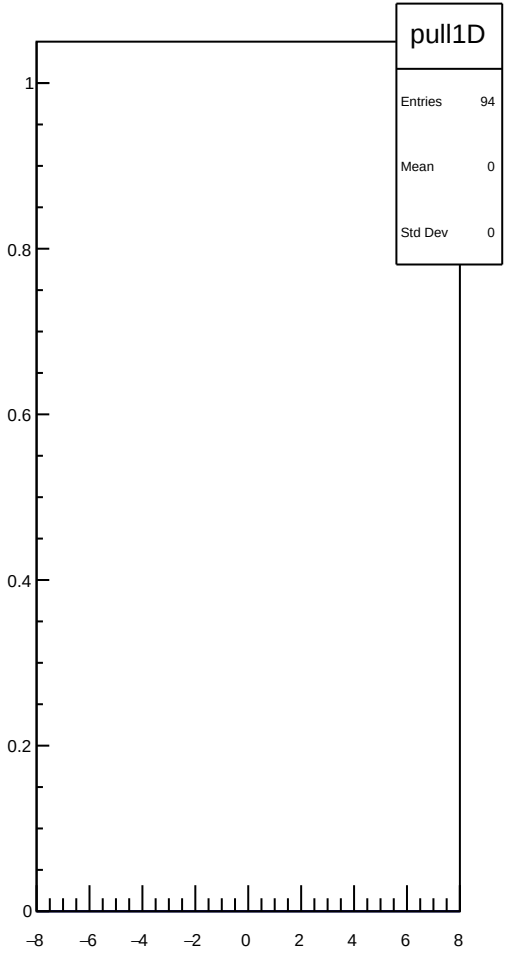

pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

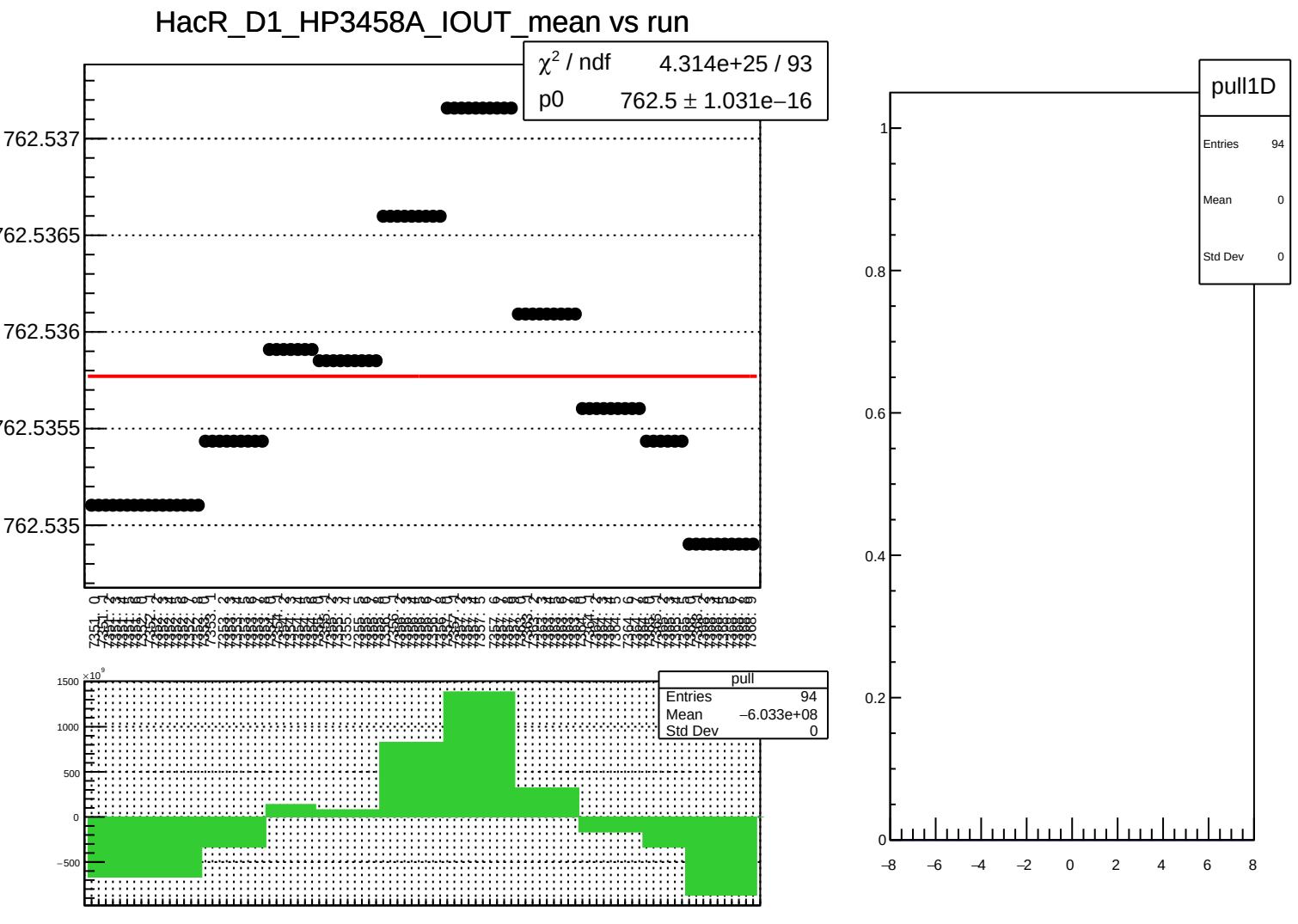

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 1.385e+29 / 93
p0 980.8 ± 1.031e−16
980.88
980.86
980.84
980.82
980.8
980.78
980.76
pull
Entries 94
Mean −3.189e+09
Std Dev 0
×10¹²
100
80
60
40
20
0
−20
pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

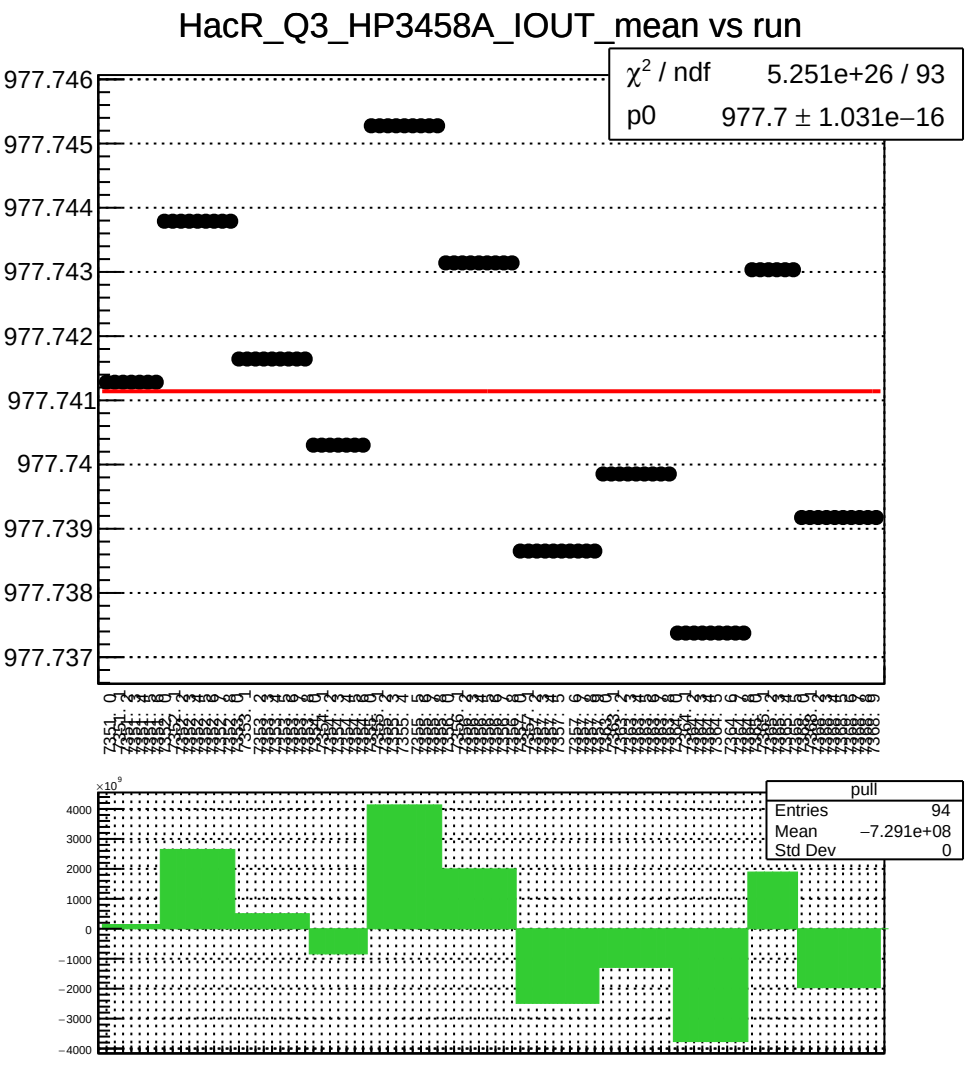

MQ172RM_mean vs run
×10⁻³
χ² / ndf 0.06365 / 93
p0 0.009375 ± 1.031e−16
9.375
pull
Entries 94
Mean 47
Std Dev 27.13
0.025
0.02
0.015
0.01
0.005
0

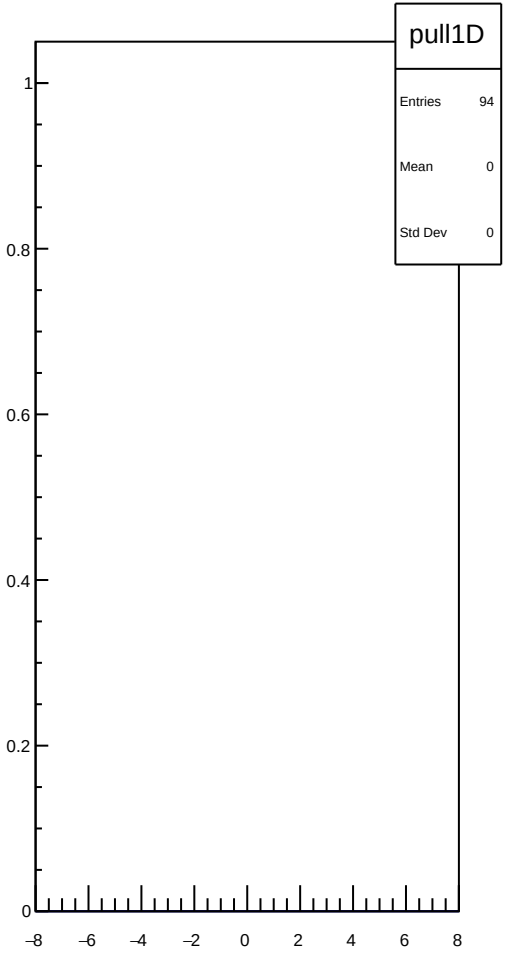

pull1D
Entries 94
Mean 0.02602
Std Dev 0
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

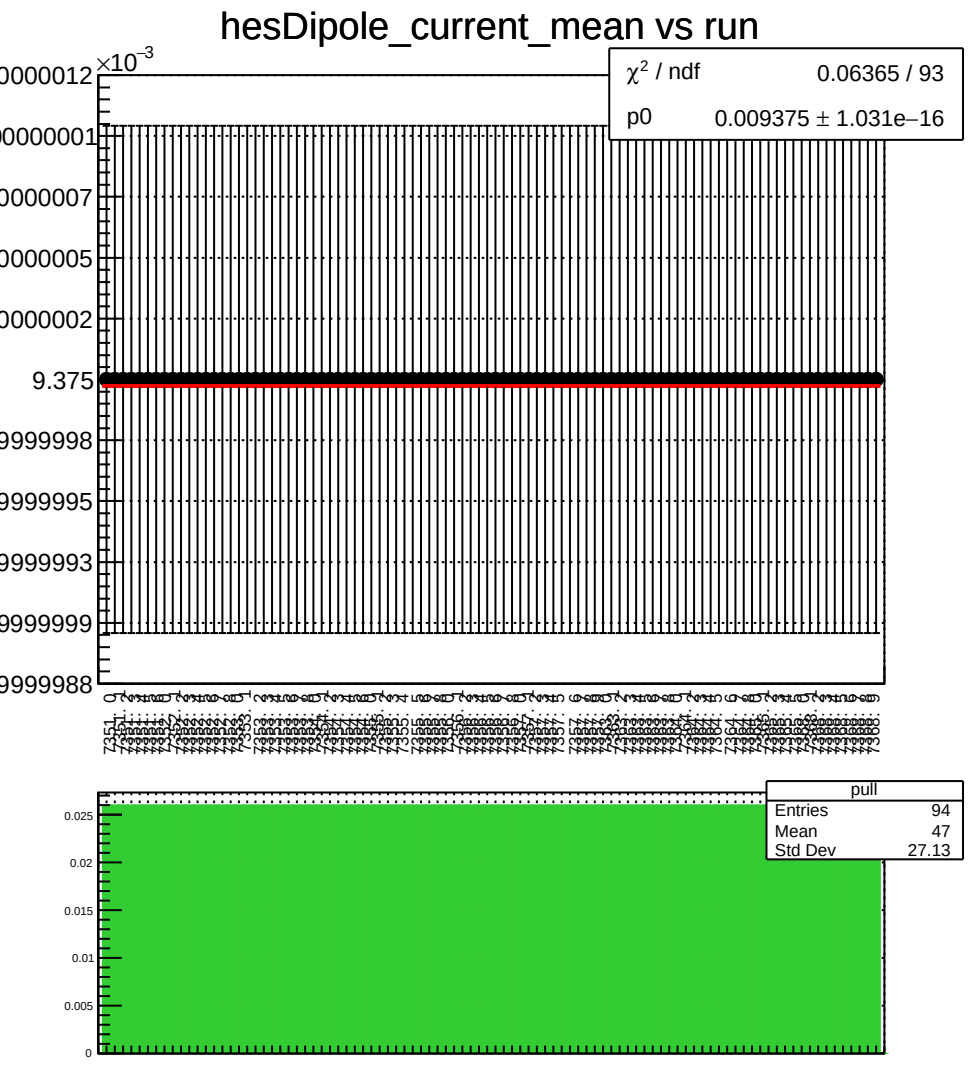

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 1.098e+26 / 93
p0 925 ± 1.031e−16
924.9595
924.959
924.9585
924.958
924.9575
924.957
924.9565
924.956
pull
Entries 94
Mean −3.377e+08
Std Dev 0
×10⁹
2000
1500
1000
500
0
−500
−1000

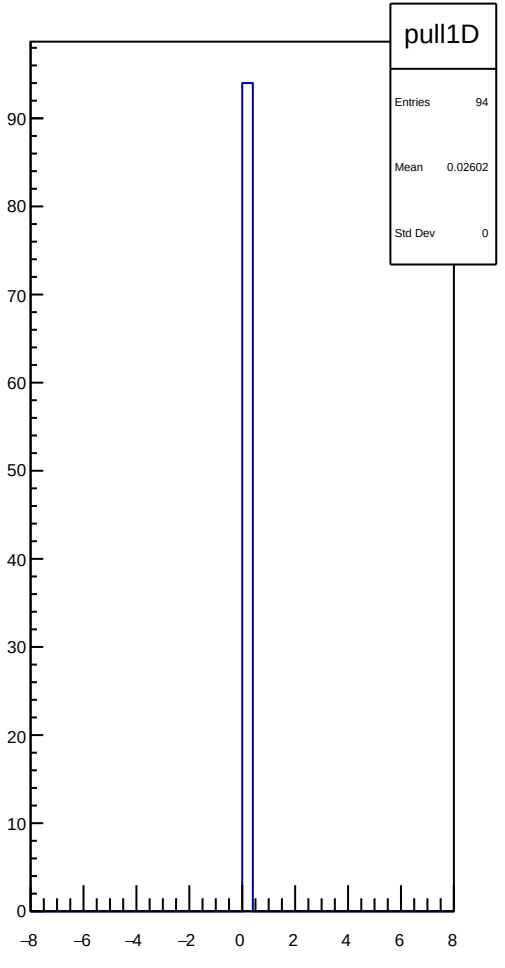

pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

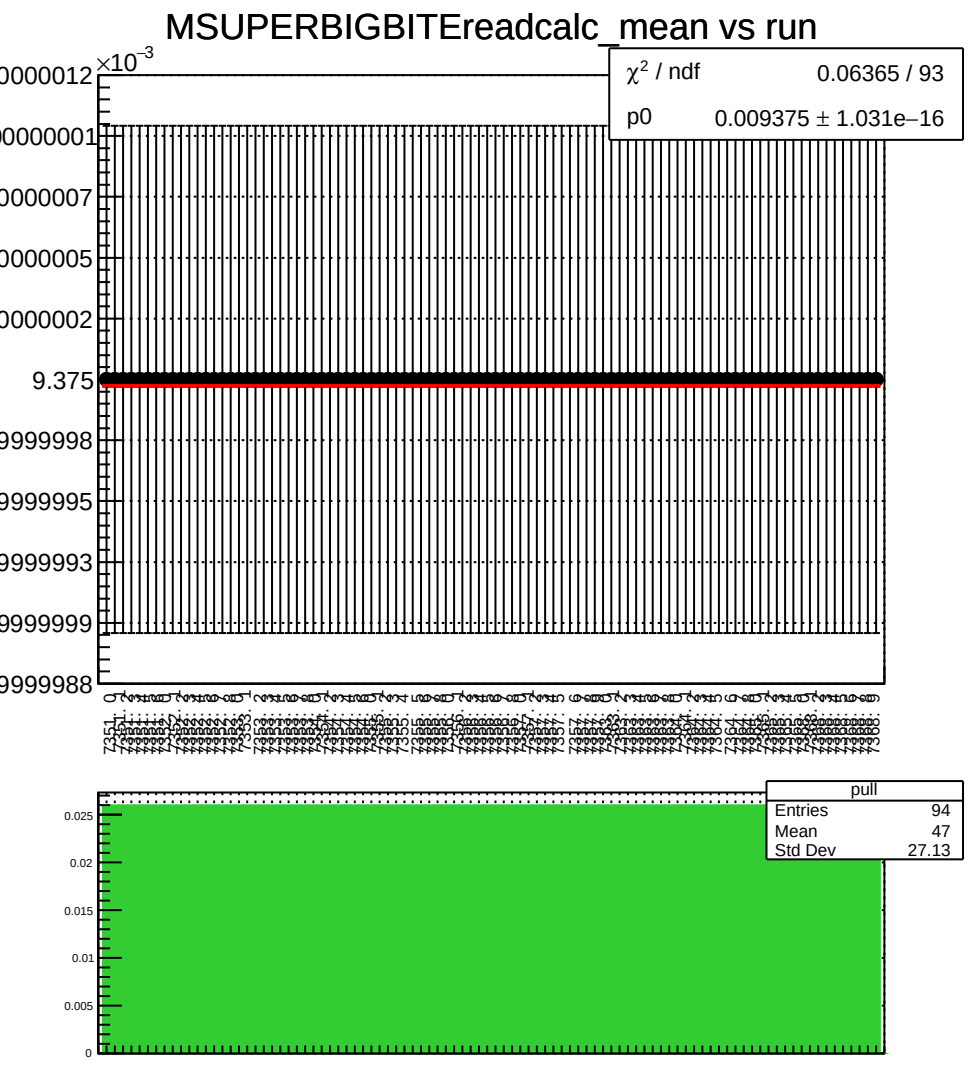

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 4.314e+25 / 93
p0 762.5 ± 1.031e−16
762.537
762.5365
762.536
762.5355
762.535
×10⁹
1500
1000
500
0
−500
pull
Entries 94
Mean −6.033e+08
Std Dev 0
pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

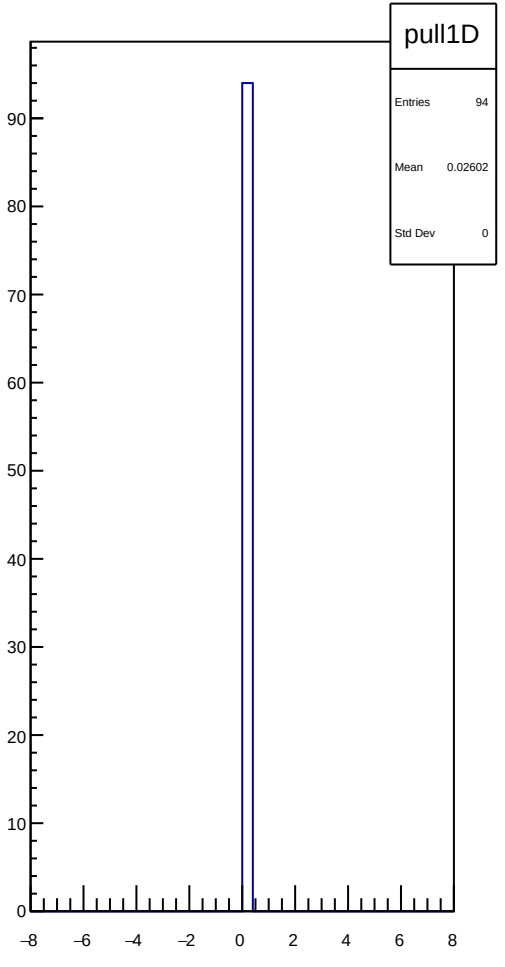

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 5.251e+26 / 93
p0 977.7 ± 1.031e−16
977.746
977.745
977.744
977.743
977.742
977.741
977.74
977.739
977.738
977.737
pull
Entries 94
Mean −7.291e+08
Std Dev 0
×10⁹
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000

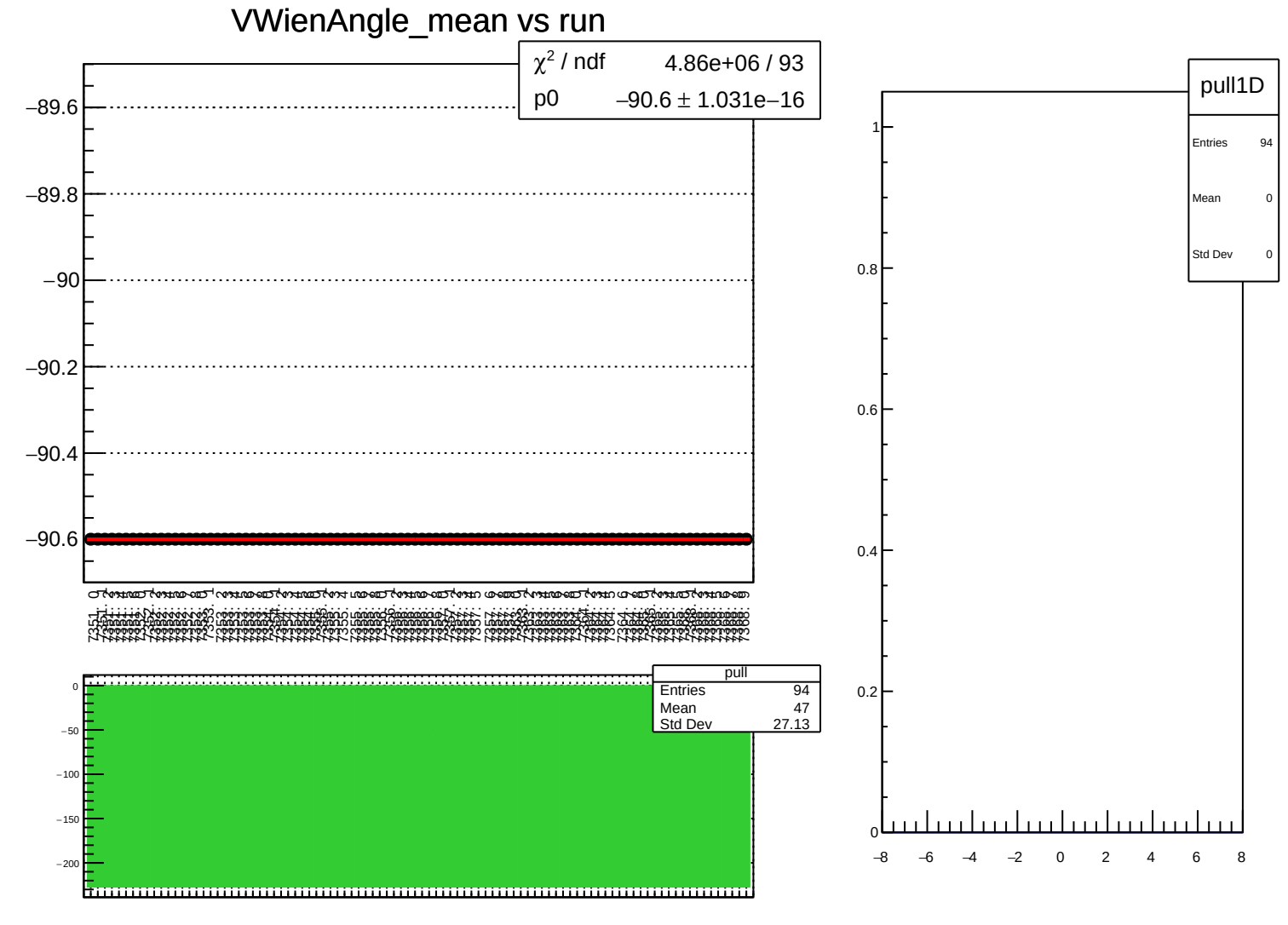

pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

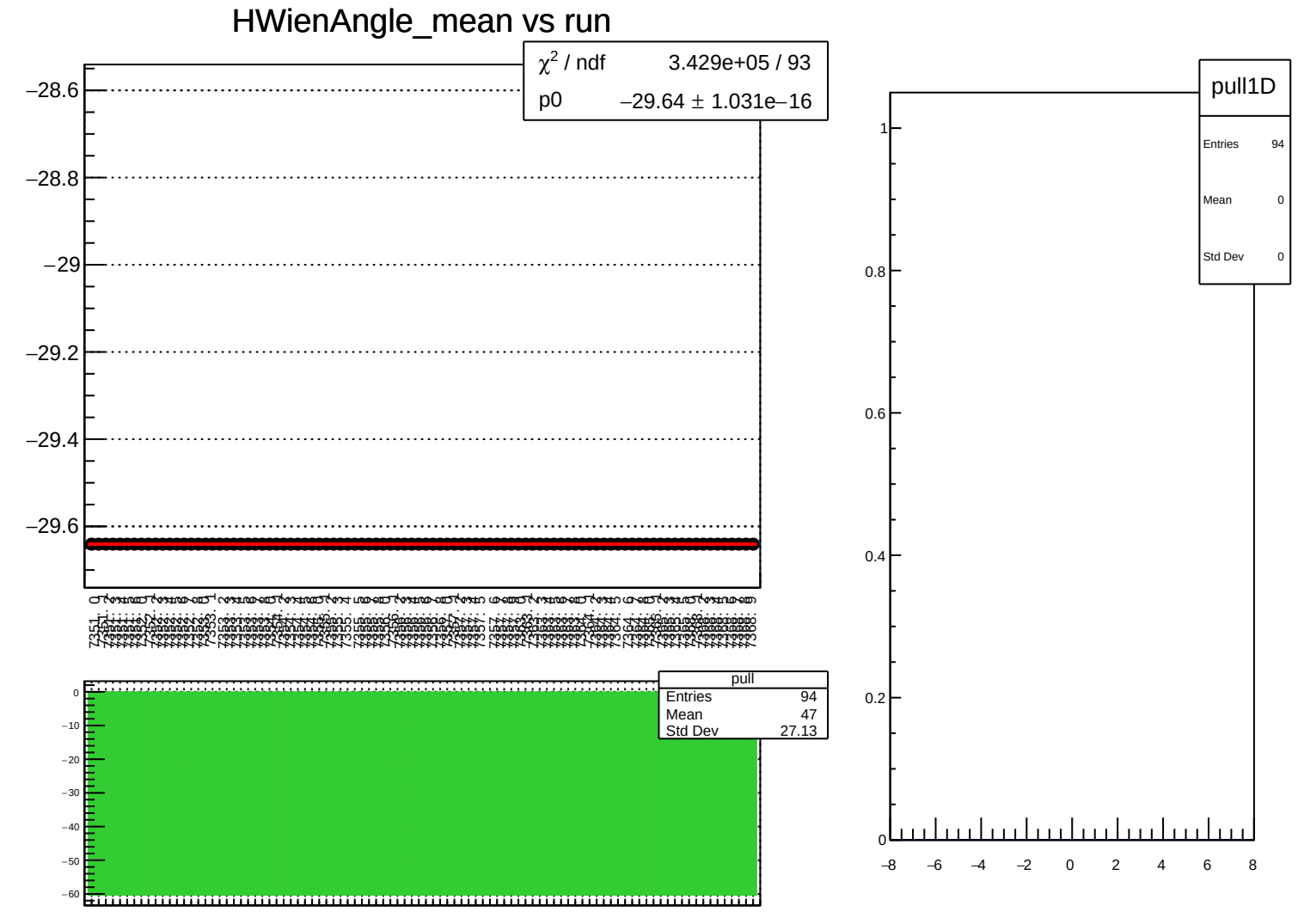

hesDipole_current_mean vs run
χ² / ndf 0.06365 / 93
p0 0.009375 ± 1.031e−16
×10⁻³
pull
Entries 94
Mean 47
Std Dev 27.13

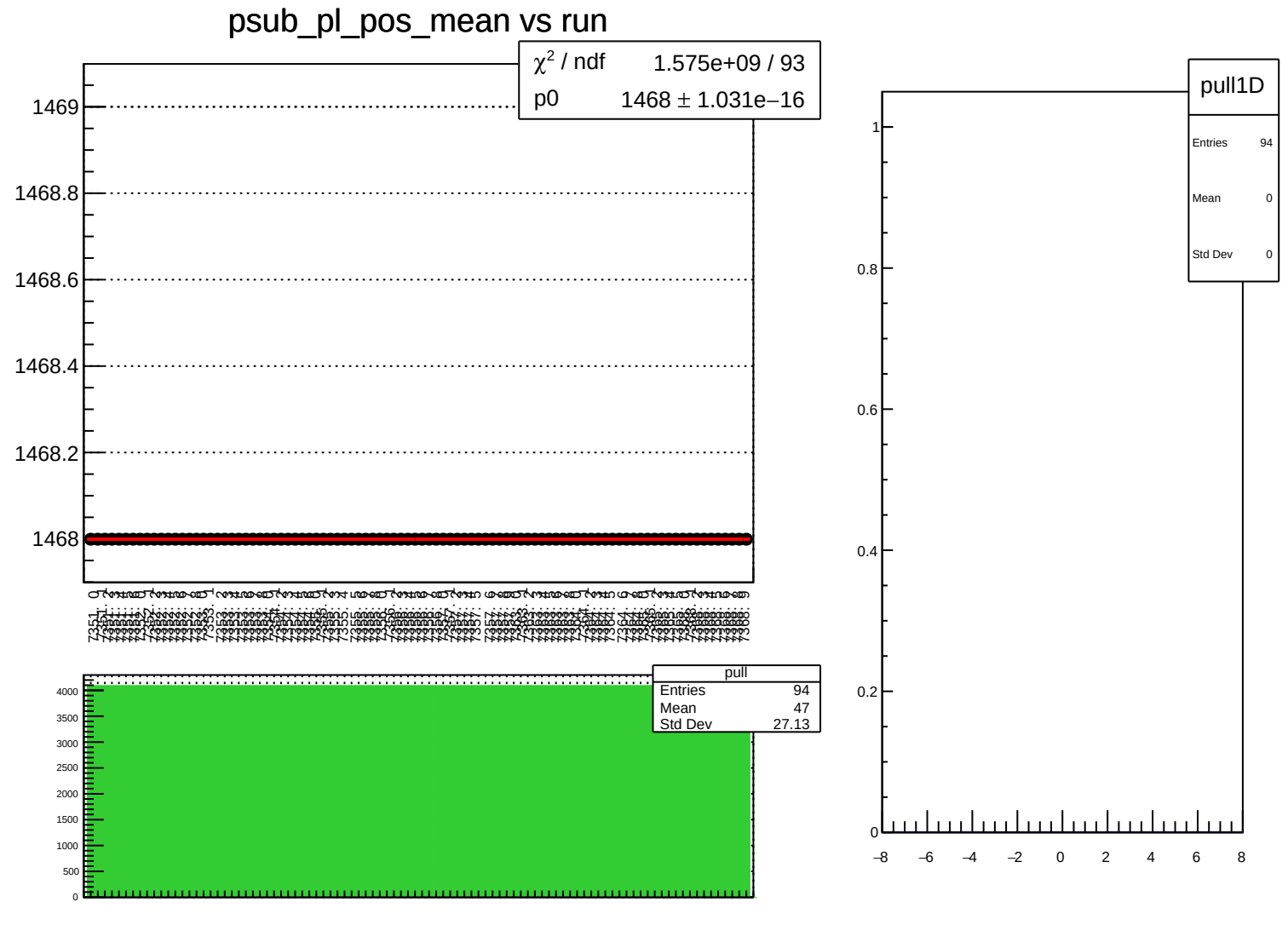

pull1D
Entries 94
Mean 0.02602
Std Dev 0

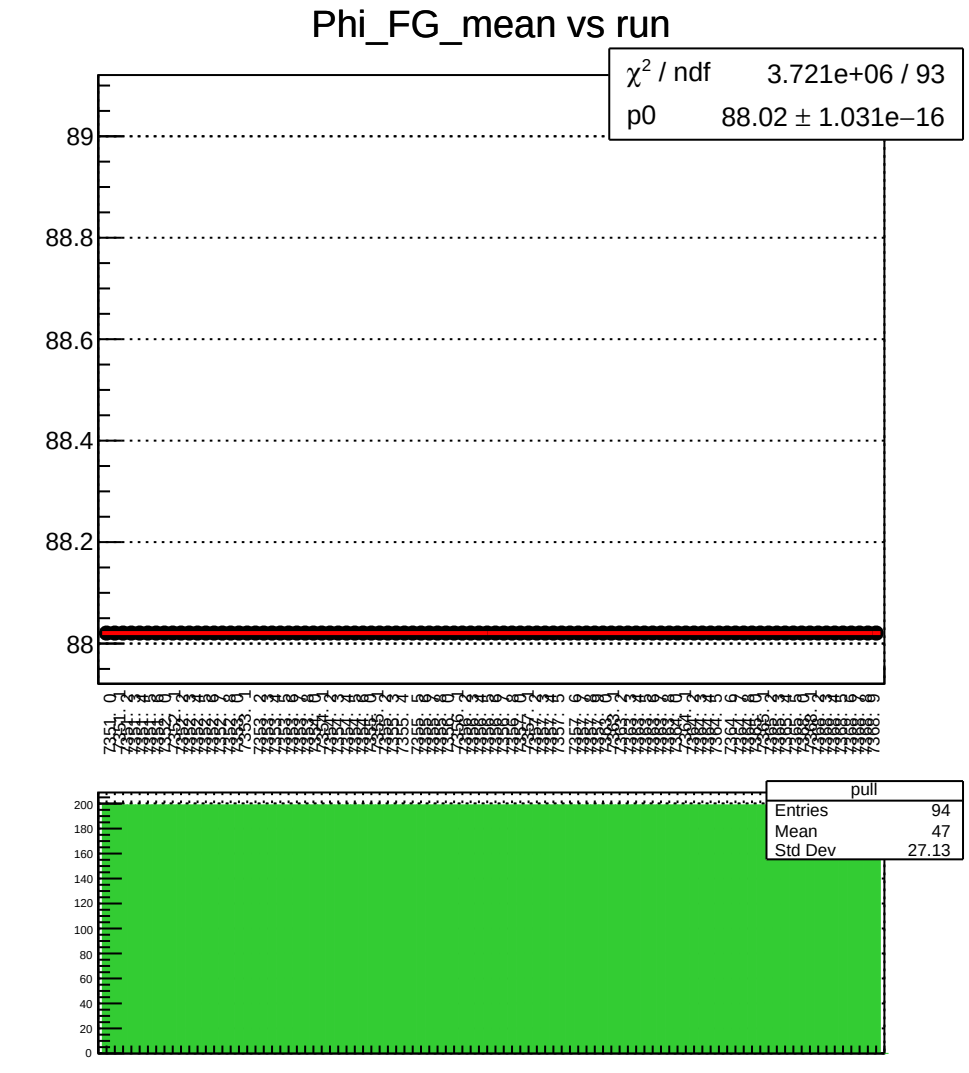

MSUPERBIGBITEreadcalc_mean vs run
χ² / ndf 0.06365 / 93
p0 0.009375 ± 1.031e−16
×10⁻³
pull
Entries 94
Mean 47
Std Dev 27.13

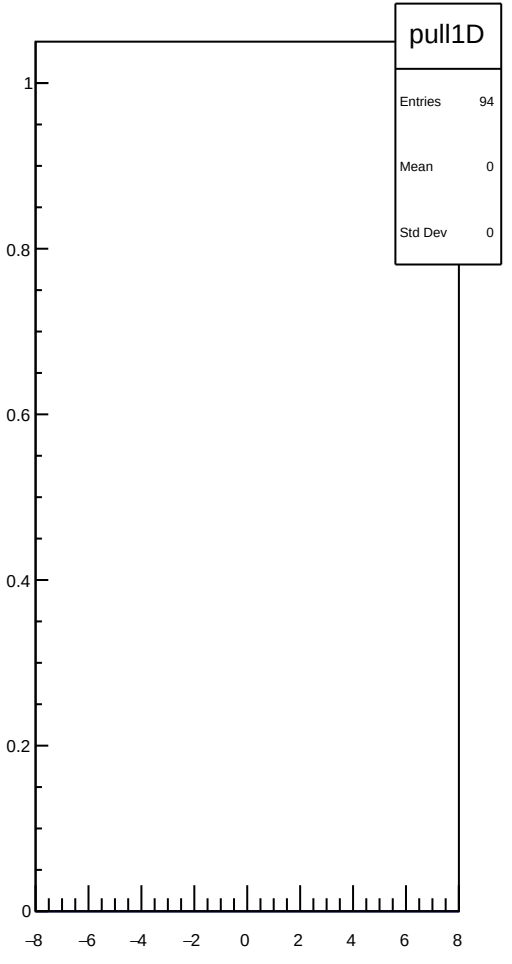

pull1D
Entries 94
Mean 0.02602
Std Dev 0

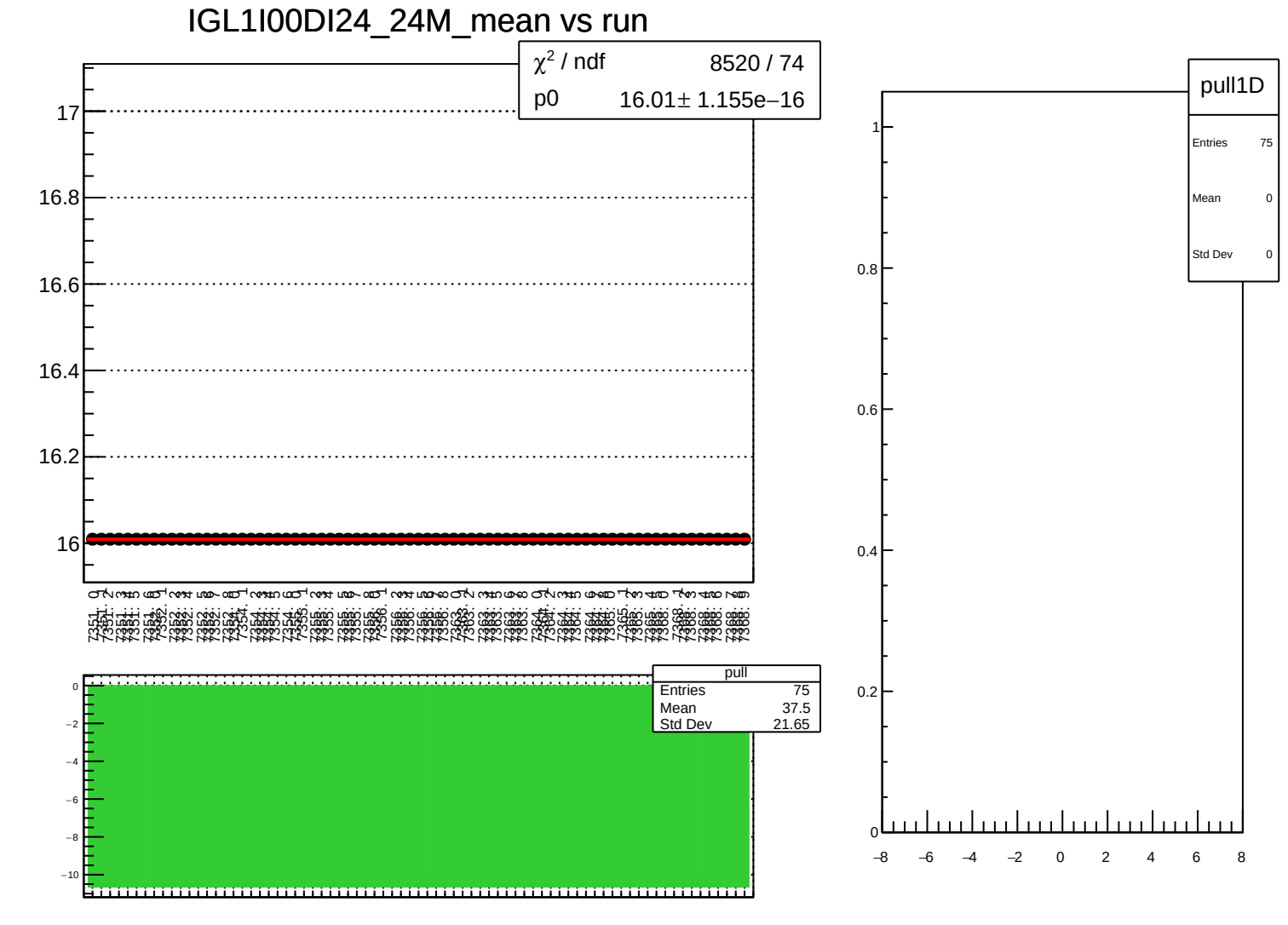

VWienAngle_mean vs run
χ² / ndf 4.86e+06 / 93
p0 −90.6 ± 1.031e−16
−89.6
−89.8
−90
−90.2
−90.4
−90.6
pull
Entries 94
Mean 47
Std Dev 27.13
0
−50
−100
−150
−200
pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

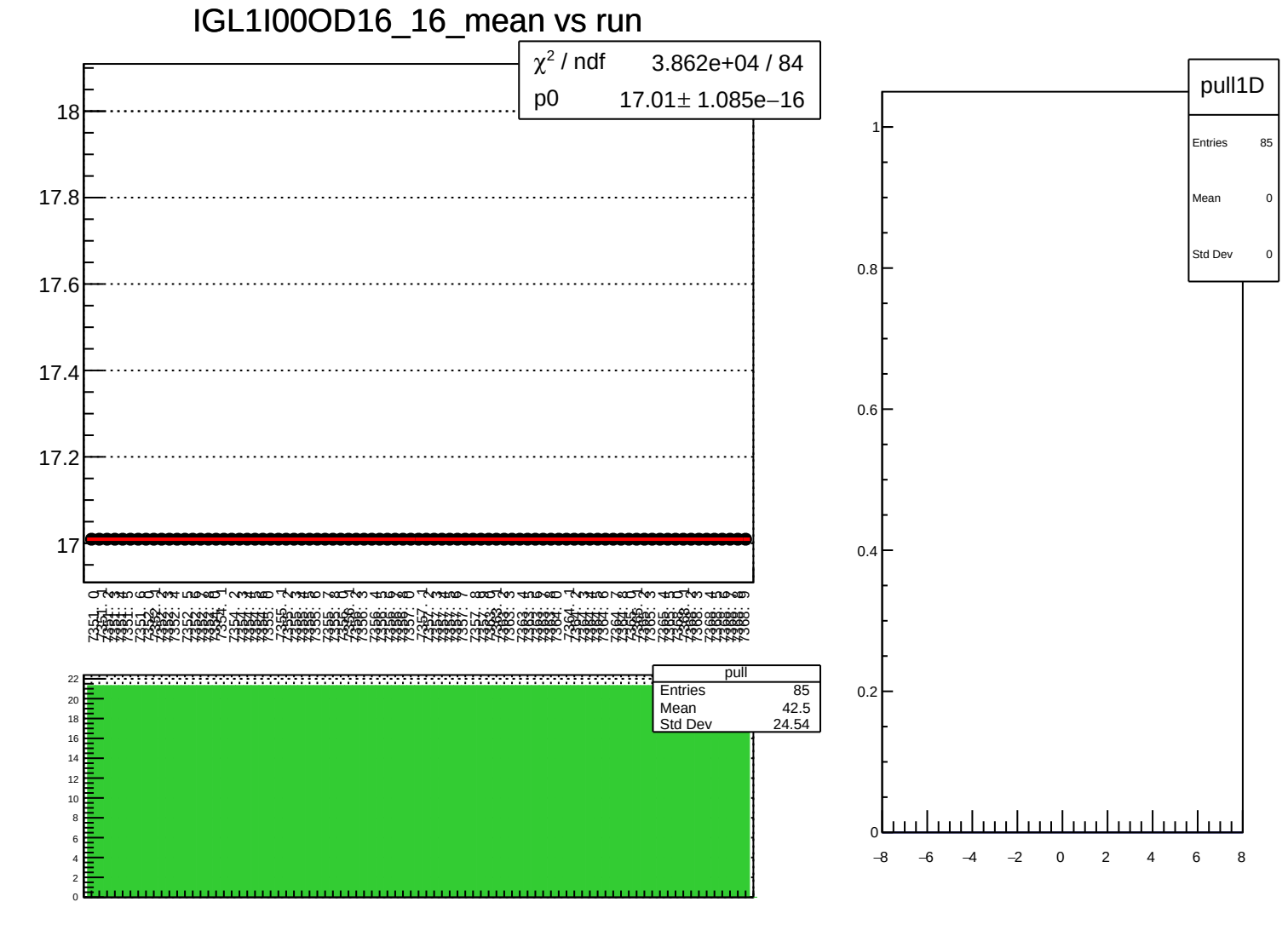

HWienAngle_mean vs run
χ² / ndf 3.429e+05 / 93
p0 −29.64 ± 1.031e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 94
Mean 47
Std Dev 27.13
0
−10
−20
−30
−40
−50
−60
pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

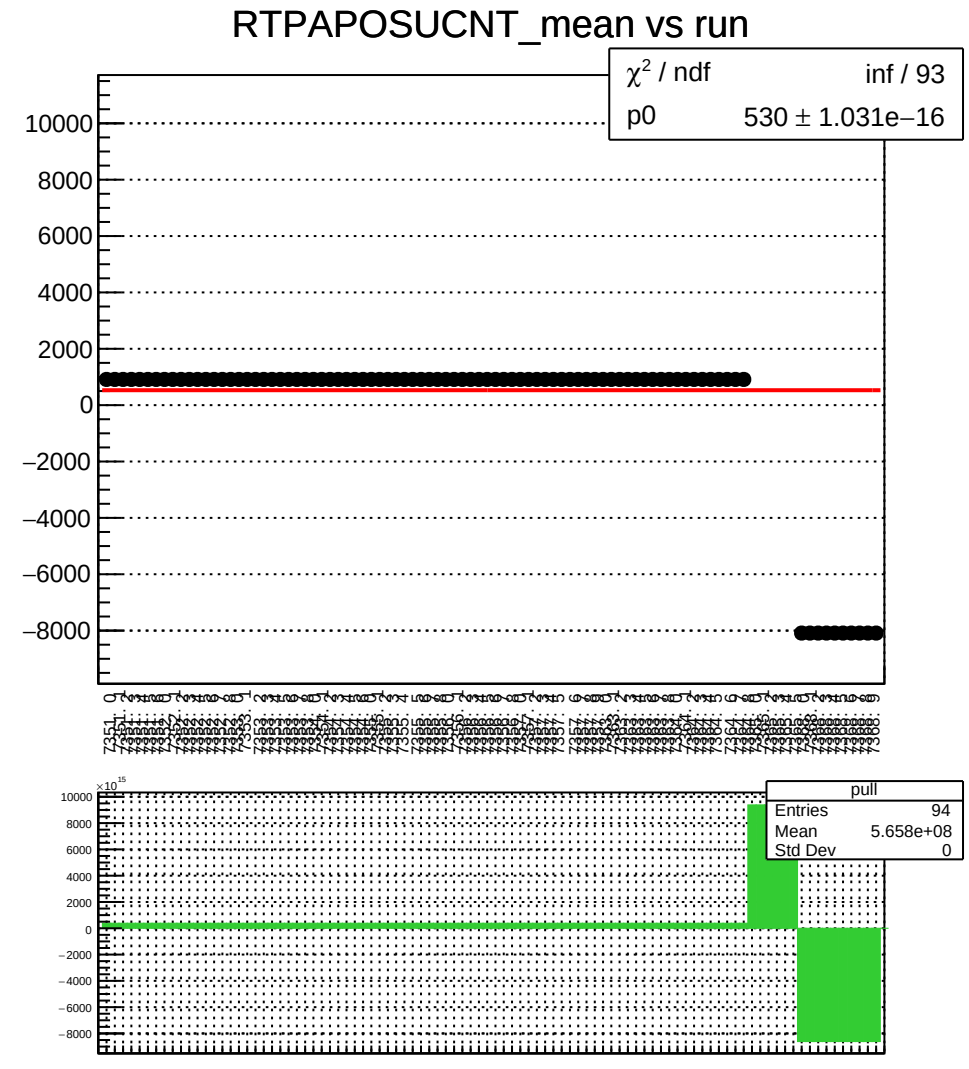

psub_pl_pos_mean vs run
χ² / ndf 1.575e+09 / 93
p0 1468 ± 1.031e−16
1469
1468.8
1468.6
1468.4
1468.2
1468
pull
Entries 94
Mean 47
Std Dev 27.13
4000
3500
3000
2500
2000
1500
1000
500
0
pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

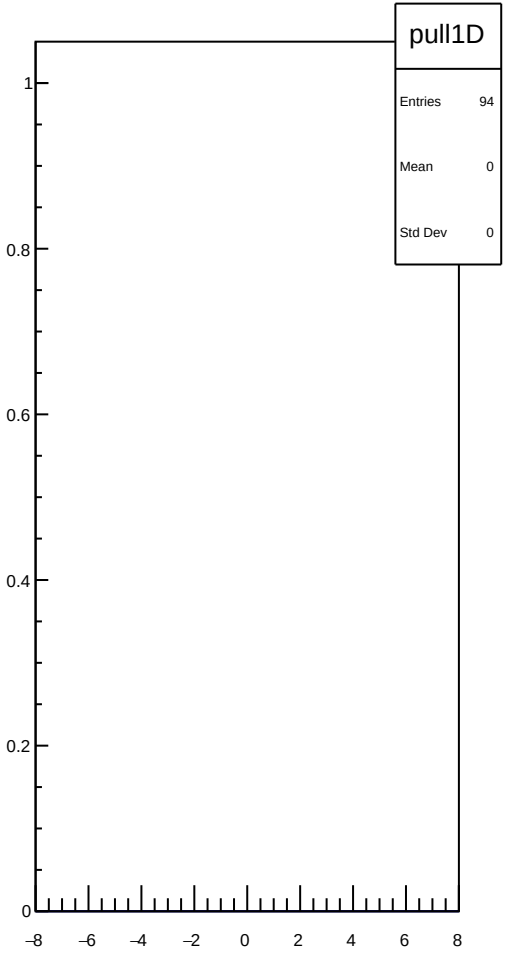

Phi_FG_mean vs run
χ² / ndf 3.721e+06 / 93
p0 88.02 ± 1.031e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 94
Mean 47
Std Dev 27.13
200
180
160
140
120
100
80
60
40
20
0

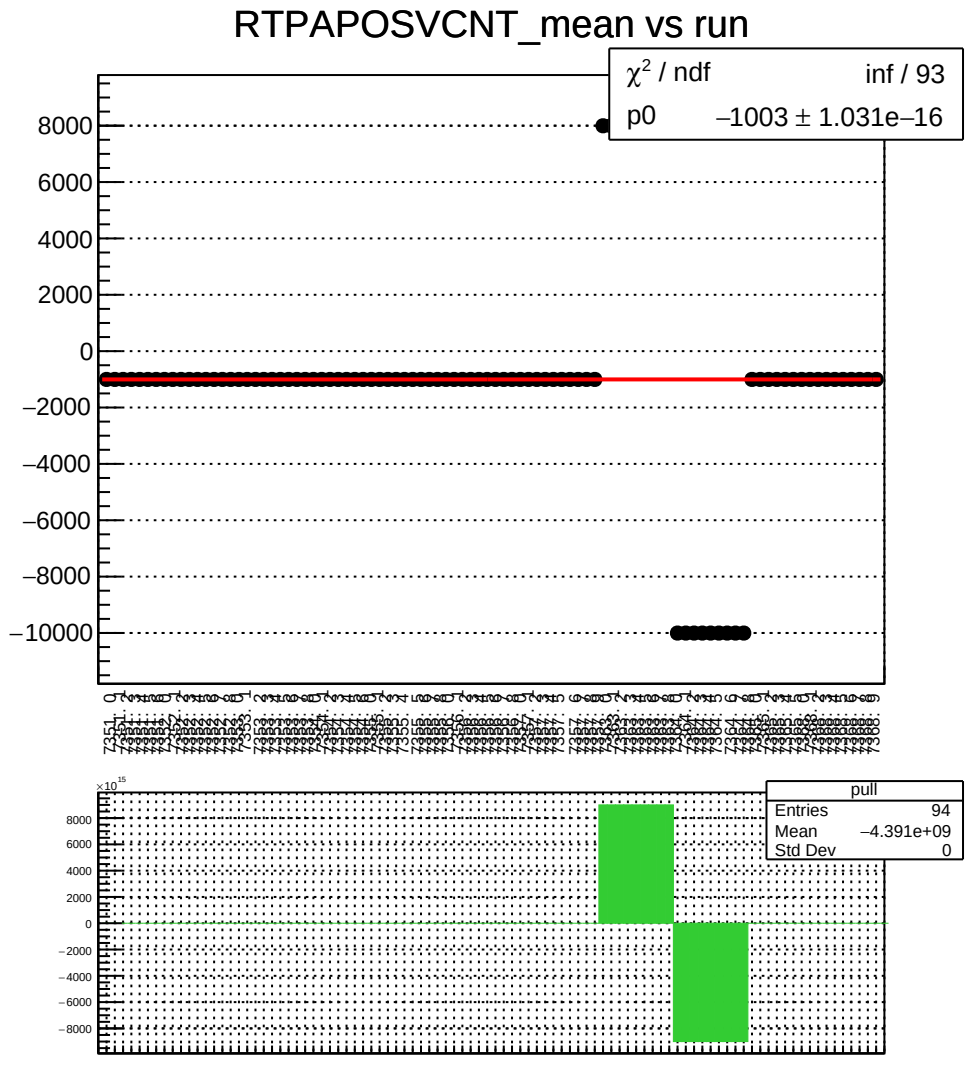

pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

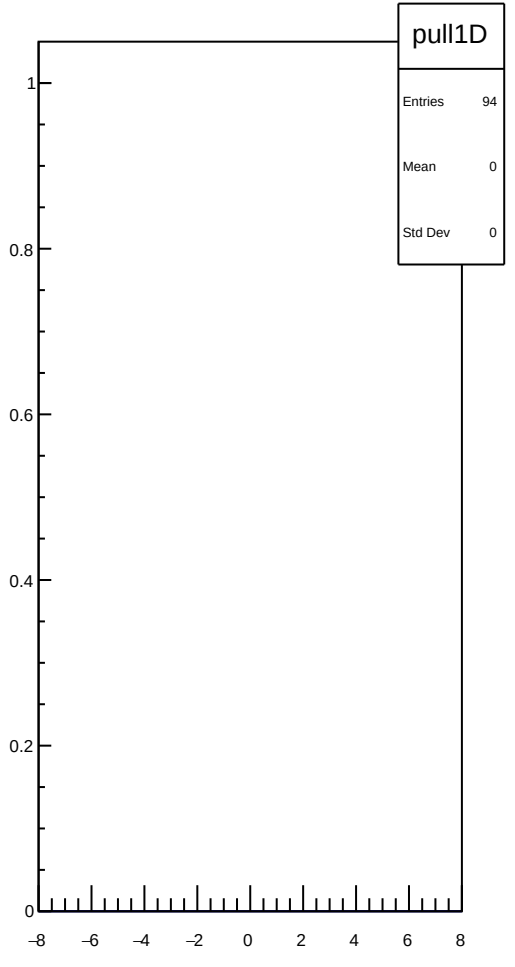

IGL1I00DI24_24M_mean vs run
χ² / ndf 8520 / 74
p0 16.01± 1.155e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 75
Mean 37.5
Std Dev 21.65
0
−2
−4
−6
−8
−10
pull1D
Entries 75
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

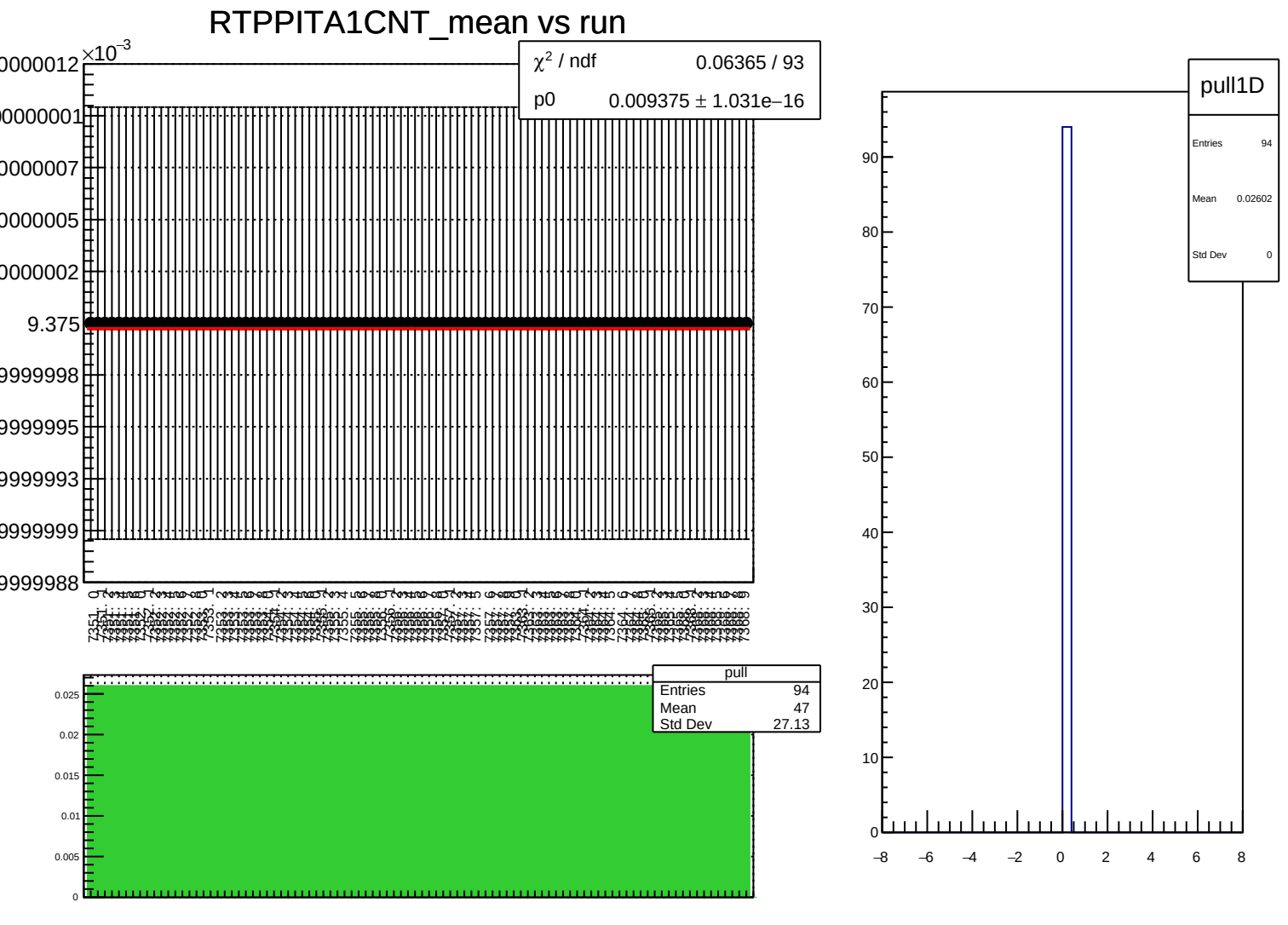

IGL1I00OD16_16_mean vs run
χ² / ndf 3.862e+04 / 84
p0 17.01± 1.085e−16
18
17.8
17.6
17.4
17.2
17
pull
Entries 85
Mean 42.5
Std Dev 24.54
22
20
18
16
14
12
10
8
6
4
2
0
pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

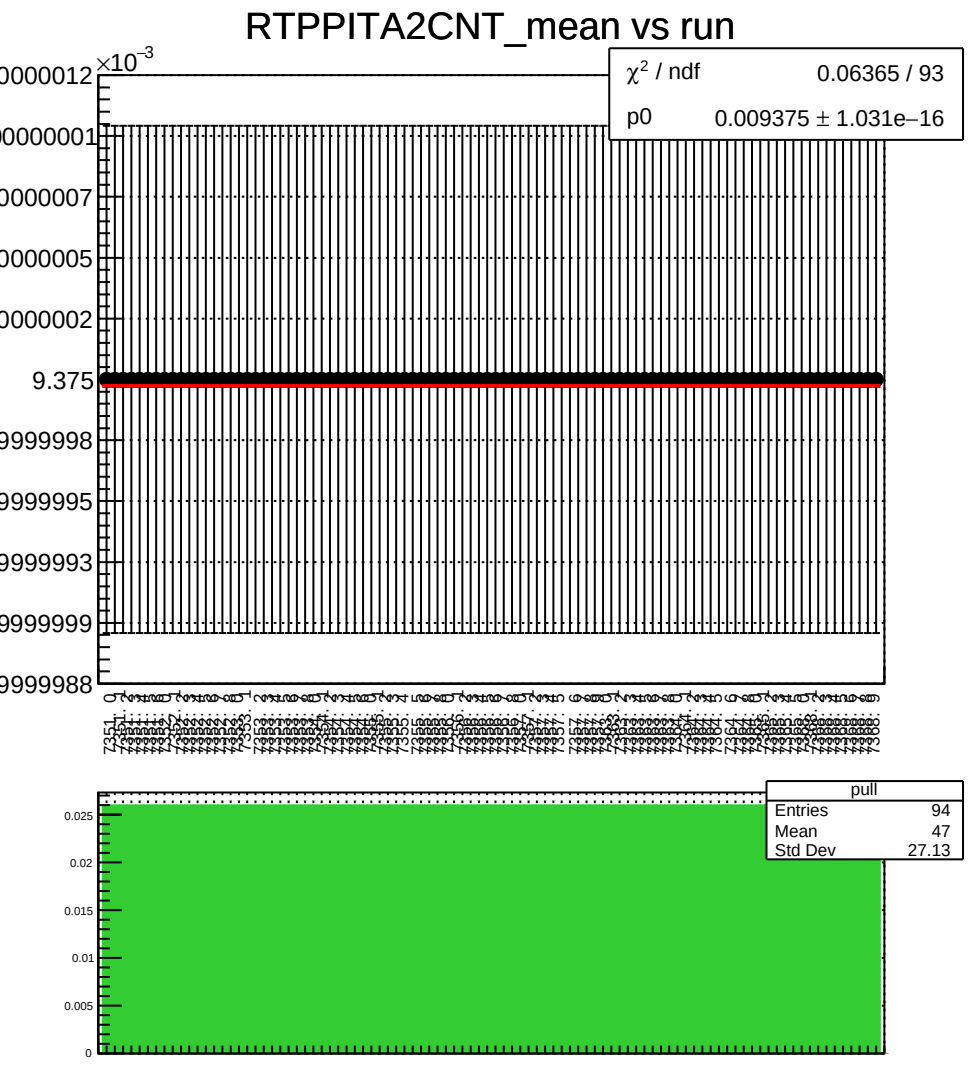

RTPAPOSUCNT_mean vs run
χ² / ndf inf / 93
p0 530 ± 1.031e−16
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 94
Mean 5.658e+08
Std Dev 0

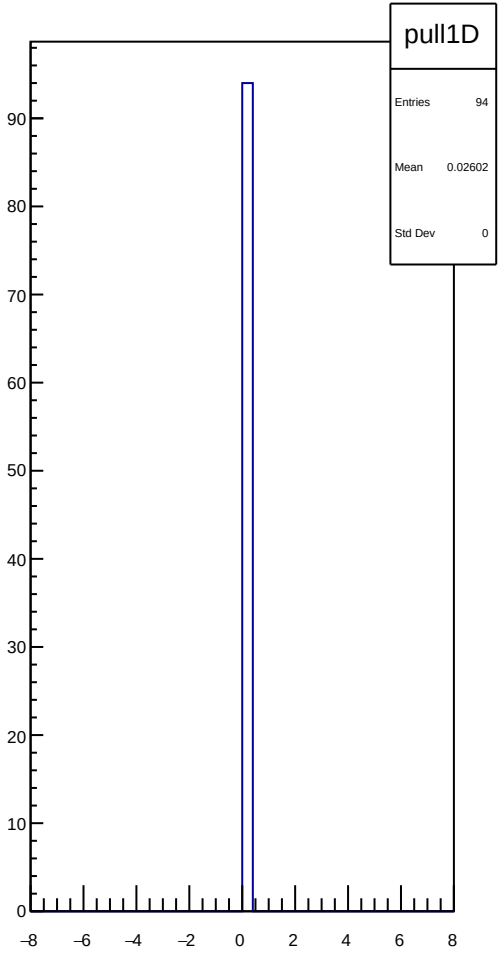

pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPAPOSVCNT_mean vs run
χ² / ndf inf / 93
p0 −1003 ± 1.031e−16
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
pull
Entries 94
Mean −4.391e+09
Std Dev 0
×10¹⁵
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000


pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPPITA1CNT_mean vs run
χ² / ndf 0.06365 / 93
p0 0.009375 ± 1.031e−16
×10⁻³
pull
Entries 94
Mean 47
Std Dev 27.13
pull1D
Entries 94
Mean 0.02602
Std Dev 0


RTPPITA2CNT_mean vs run
χ² / ndf 0.06365 / 93
p0 0.009375 ± 1.031e−16
×10⁻³
9.375
pull
Entries 94
Mean 47
Std Dev 27.13


pull1D
Entries 94
Mean 0.02602
Std Dev 0