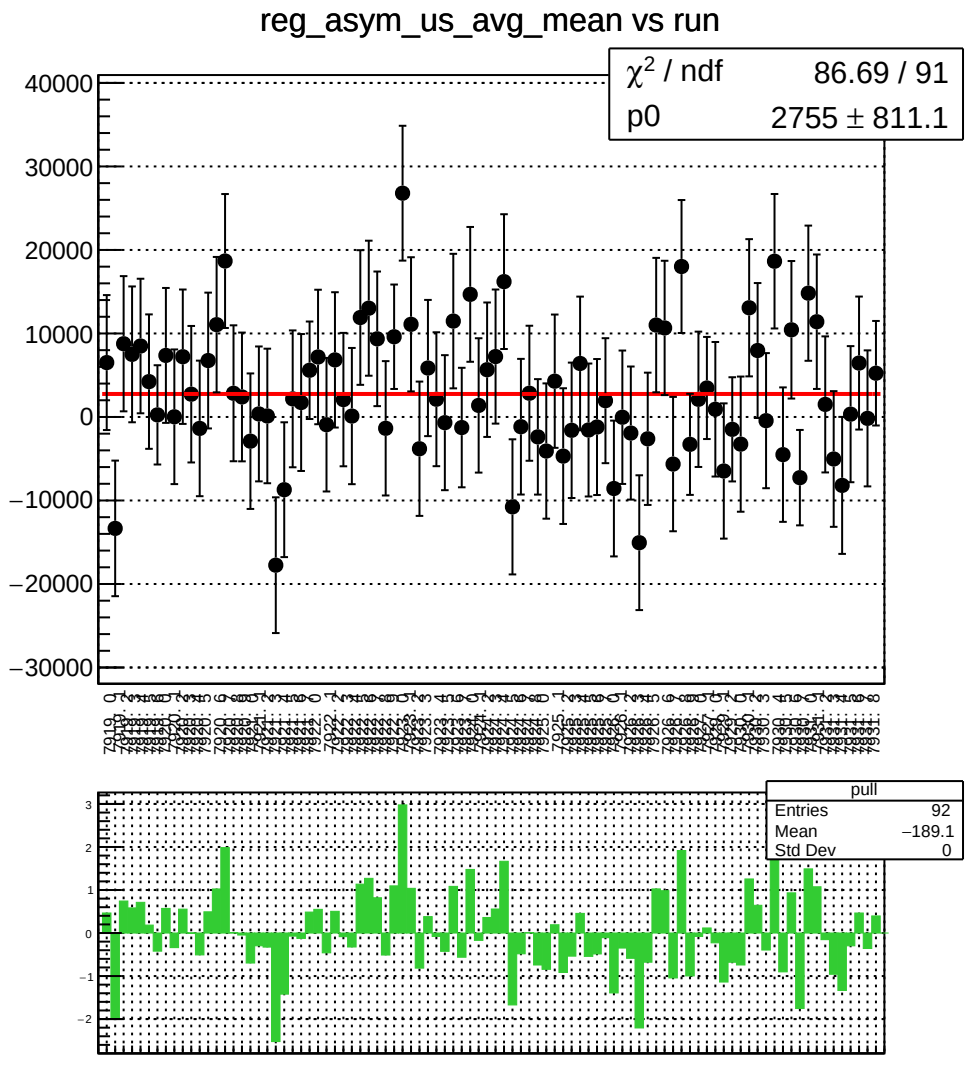
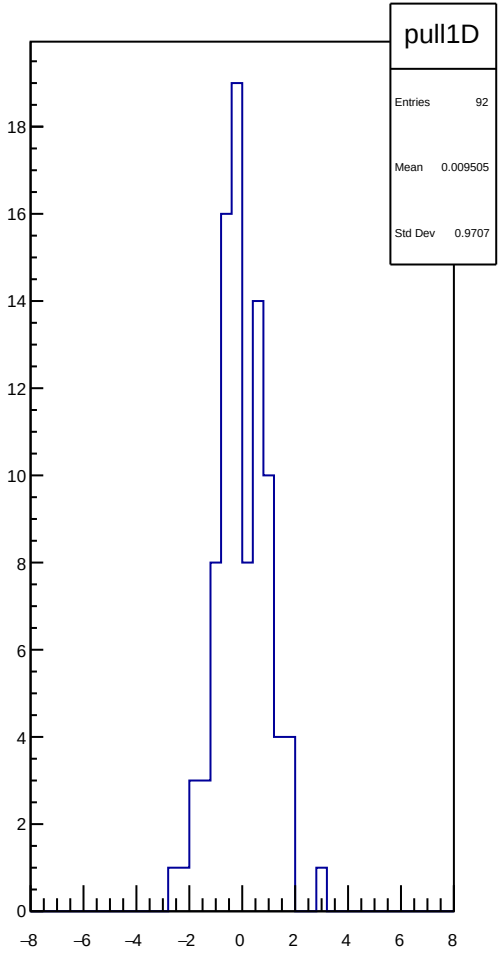
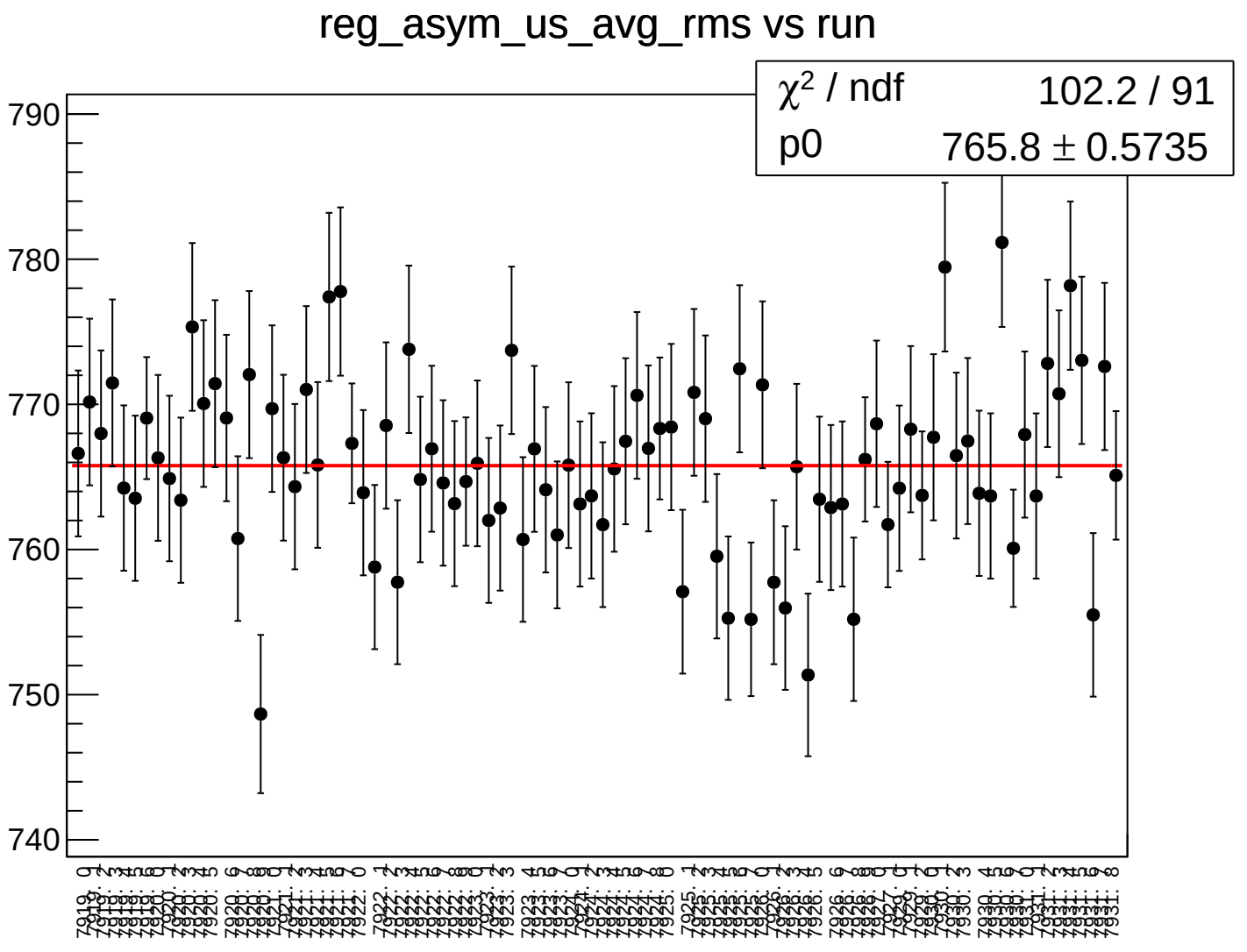
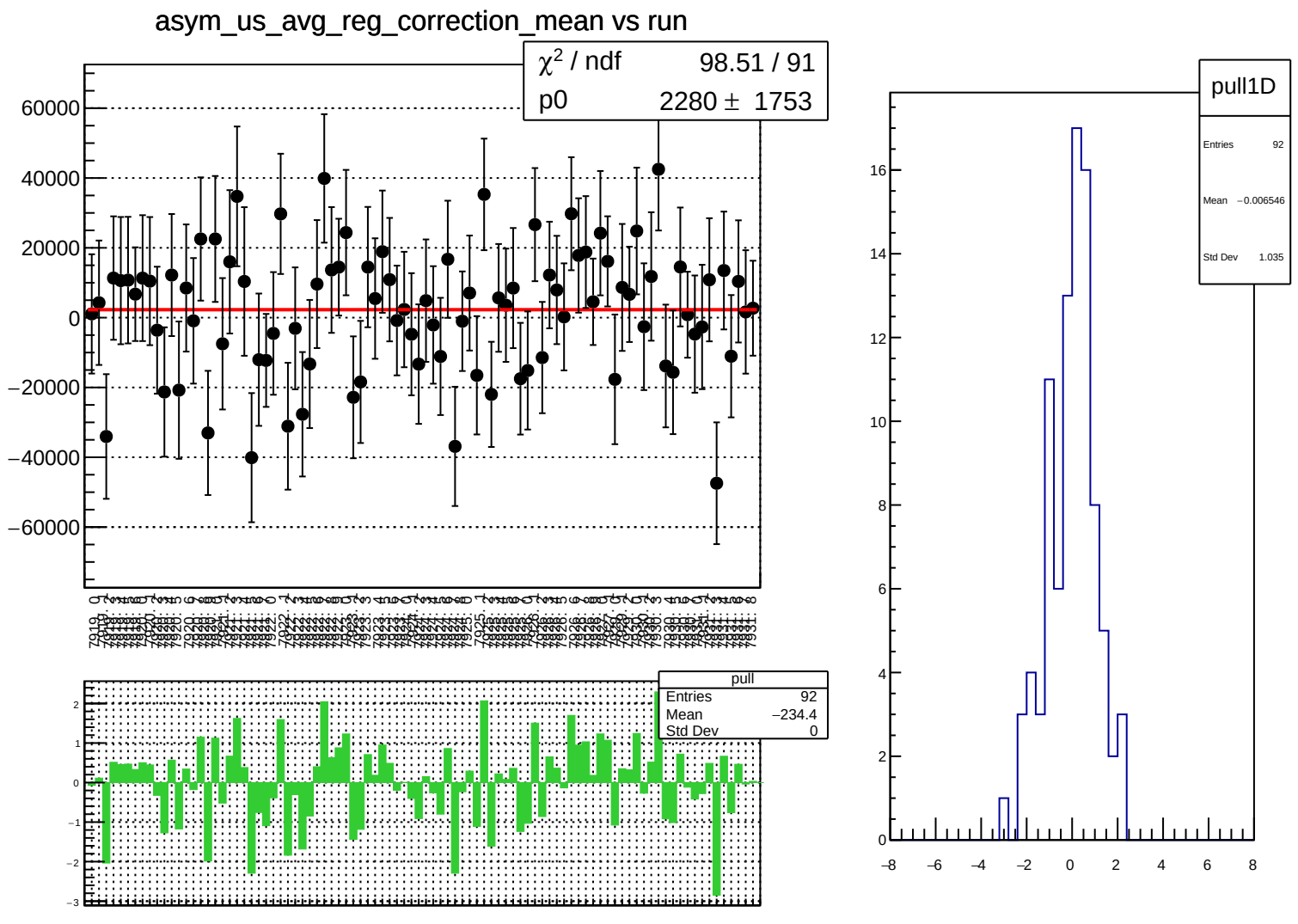
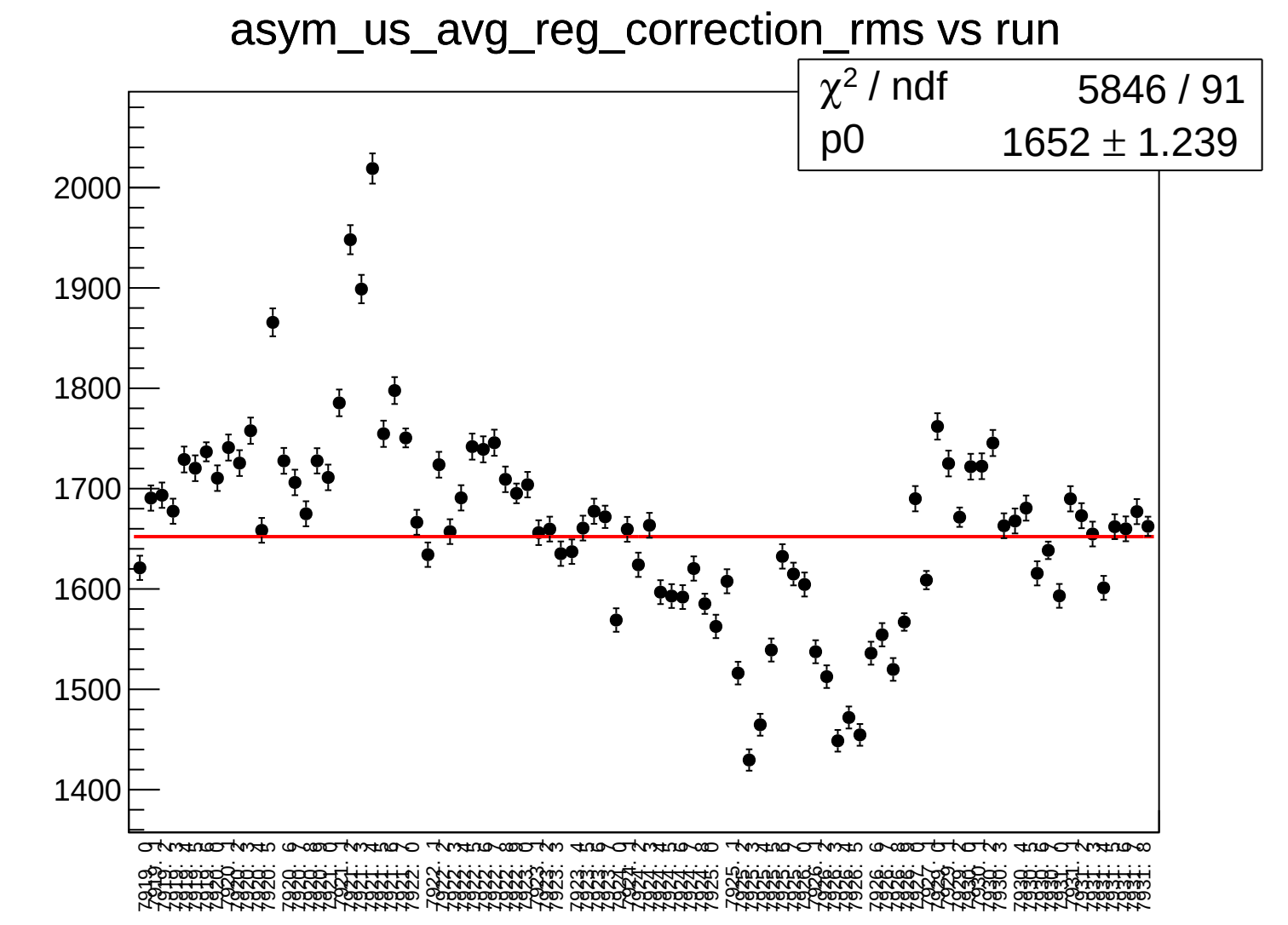
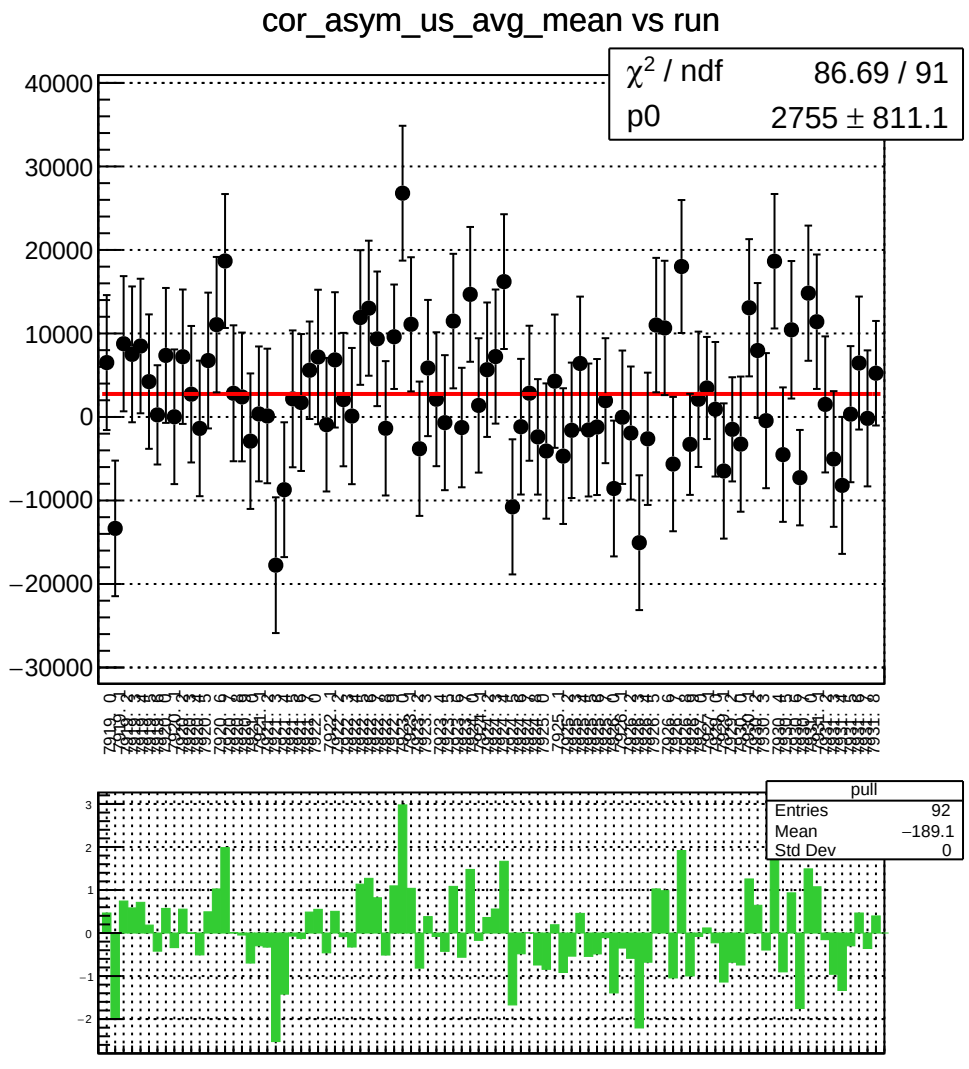

reg_asym_us_avg_mean vs run
χ² / ndf 86.69 / 91
p0 2755 ± 811.1
pull
Entries 92
Mean −189.1
Std Dev 0

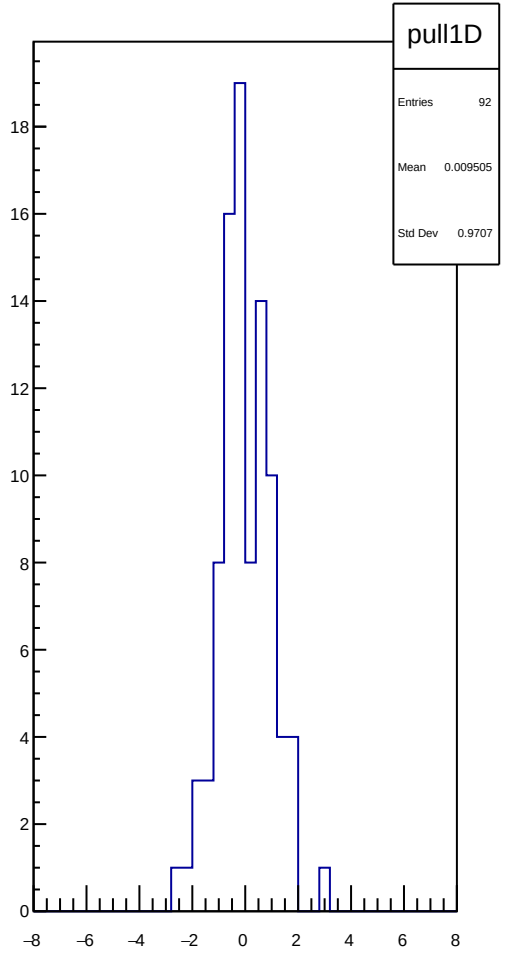

pull1D
Entries 92
Mean 0.009505
Std Dev 0.9707

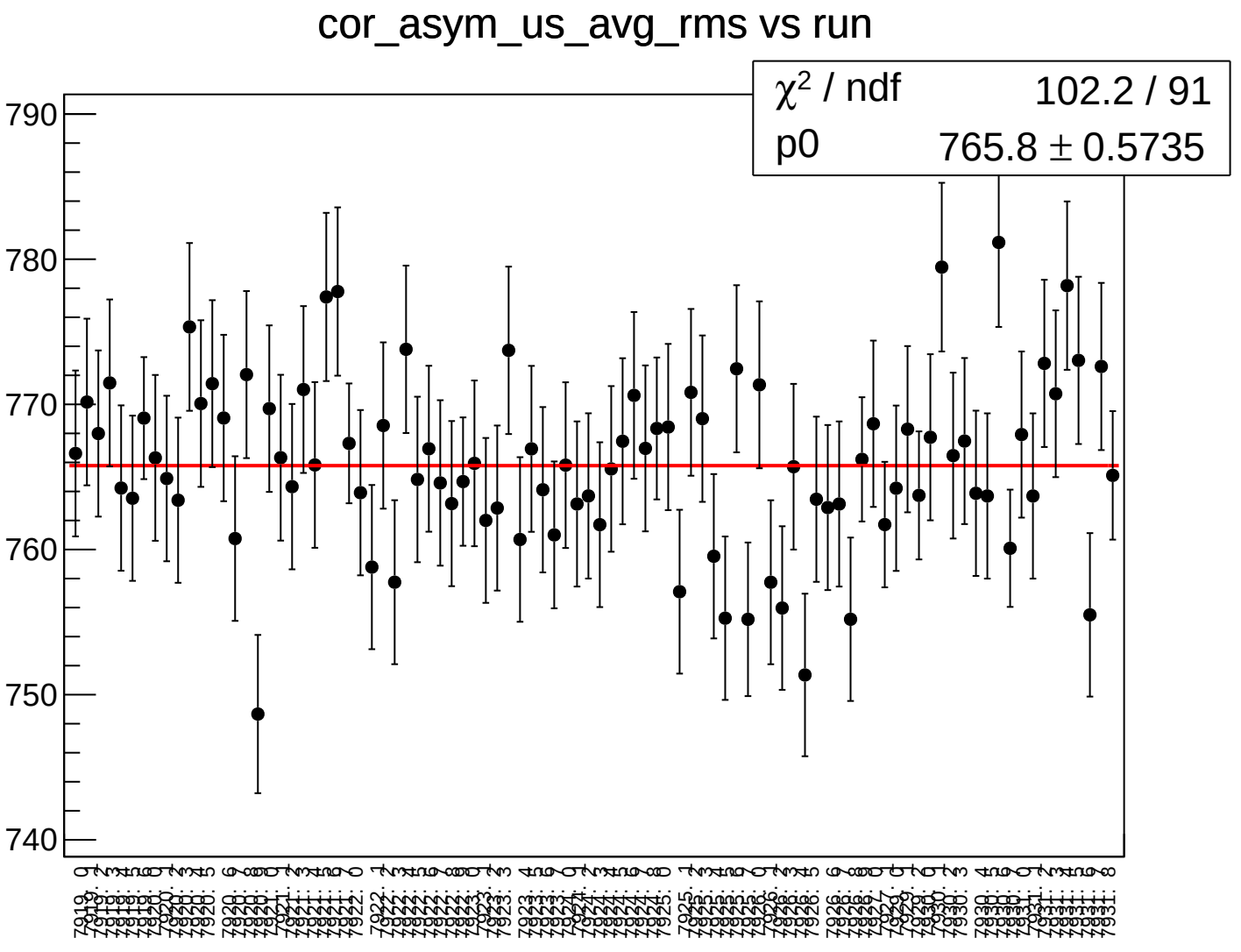

reg_asym_us_avg_rms vs run
χ^2 / ndf 102.2 / 91
p0 765.8 ± 0.5735
790
780
770
760
750
740

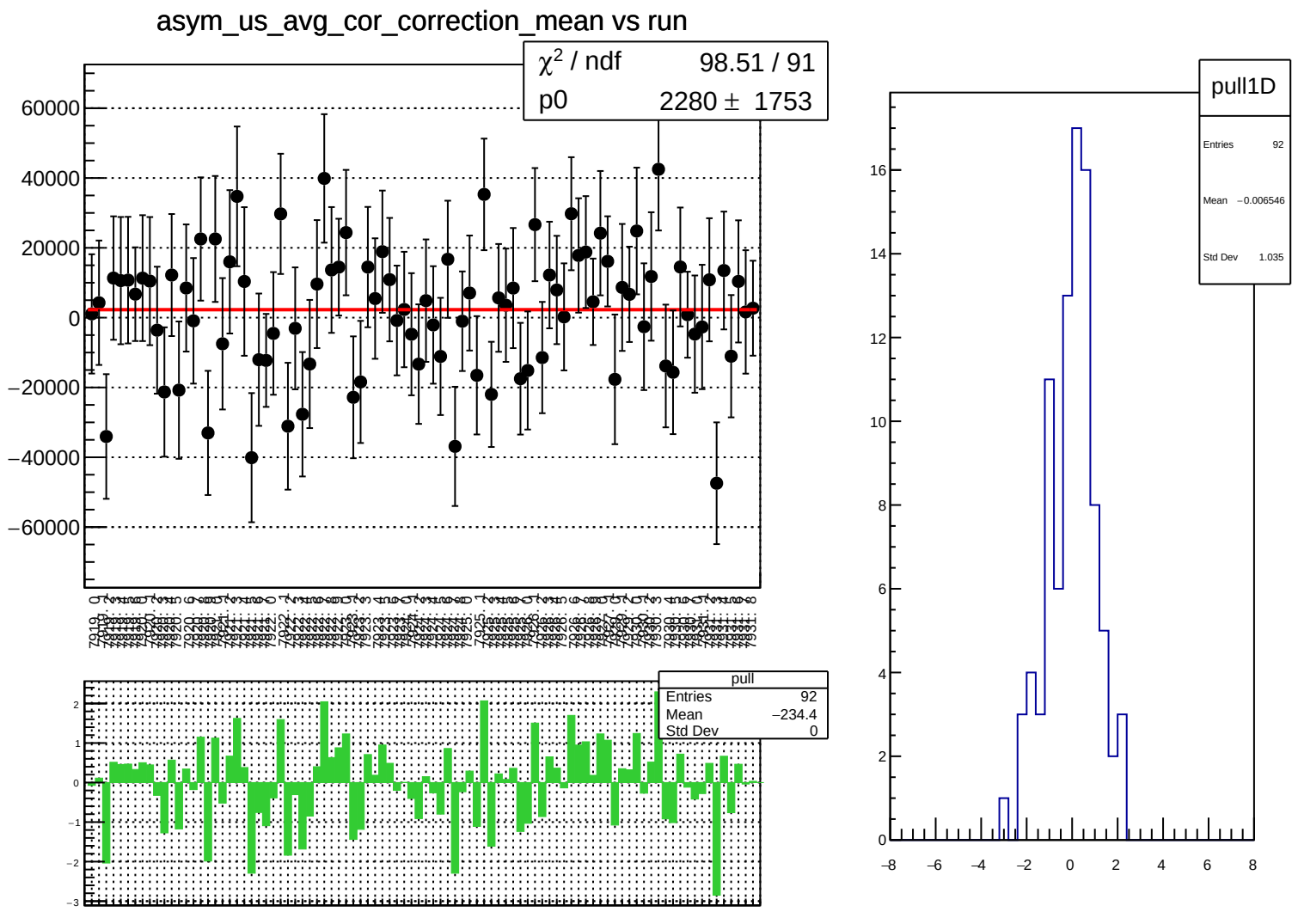

asym_us_avg_reg_correction_mean vs run
χ² / ndf 98.51 / 91
p0 2280 ± 1753
pull
Entries 92
Mean −234.4
Std Dev 0
pull1D
Entries 92
Mean −0.006546
Std Dev 1.035

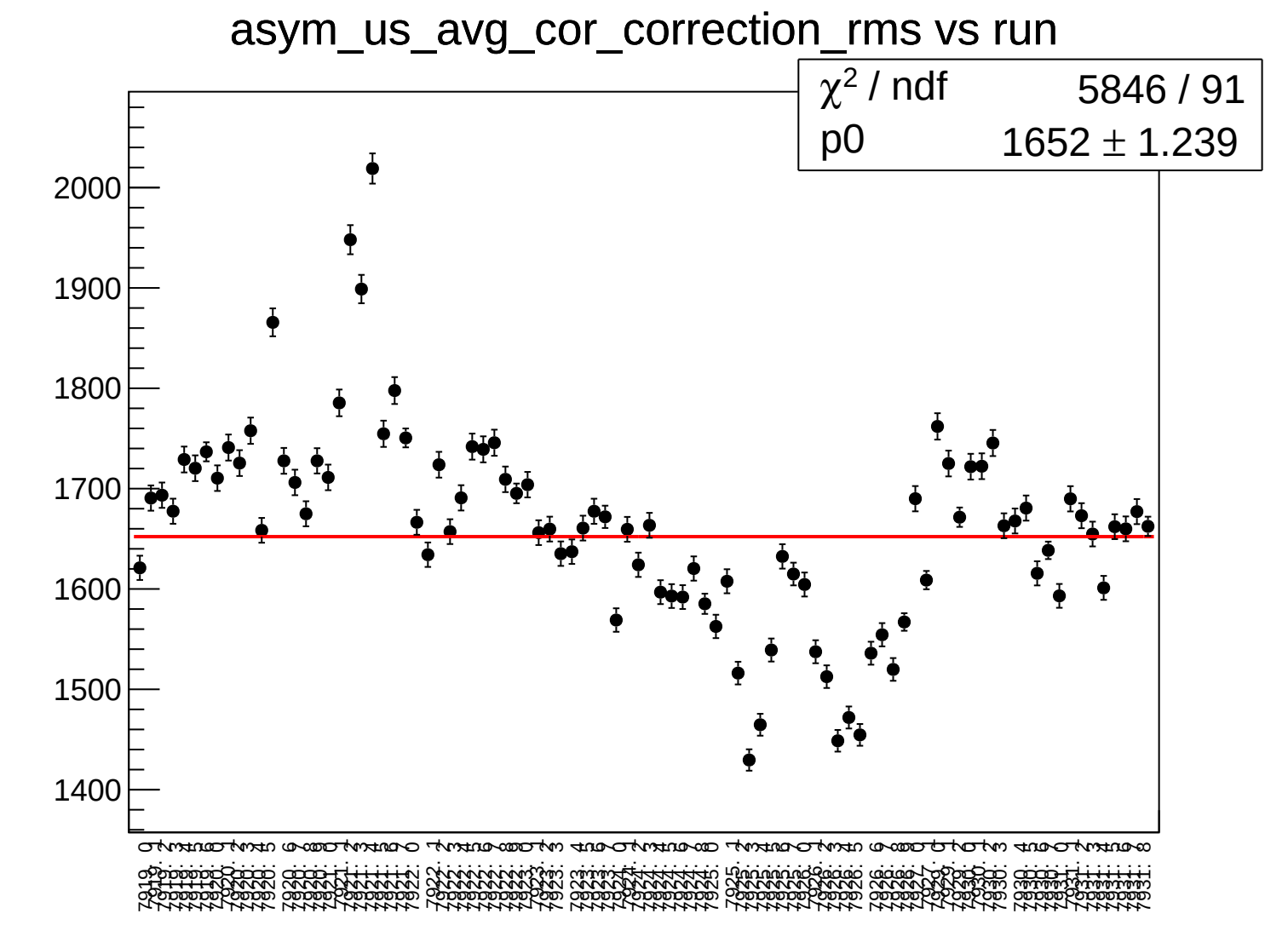

asym_us_avg_reg_correction_rms vs run
χ² / ndf 5846 / 91
p0 1652 ± 1.239
2000
1900
1800
1700
1600
1500
1400

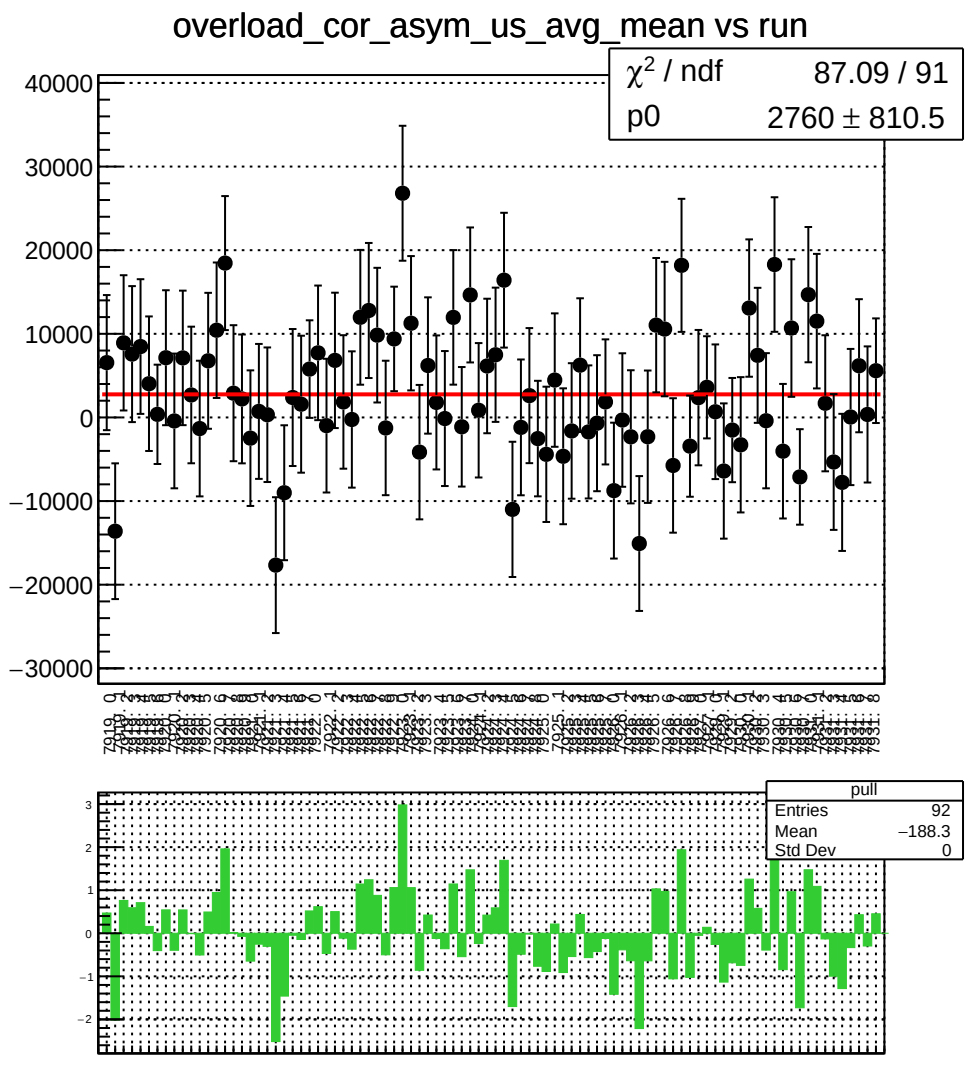

cor_asym_us_avg_mean vs run
χ² / ndf 86.69 / 91
p0 2755 ± 811.1
pull
Entries 92
Mean −189.1
Std Dev 0

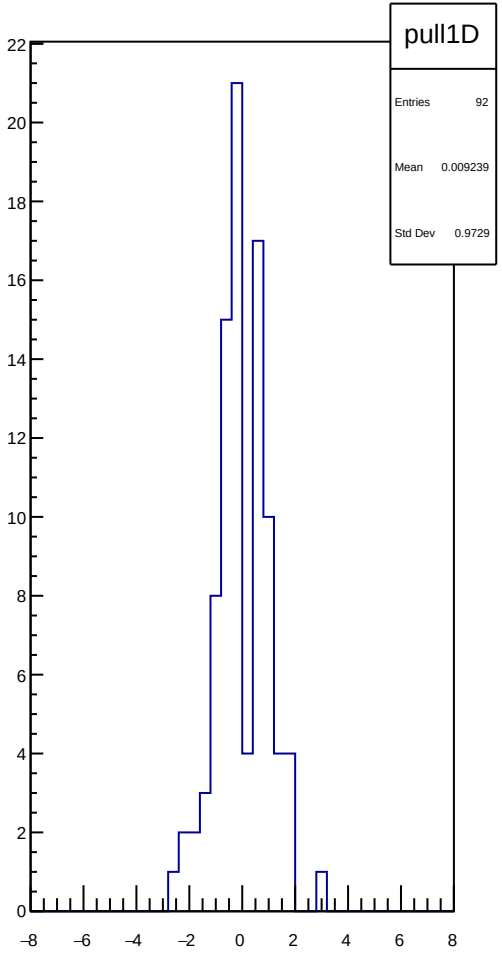

pull1D
Entries 92
Mean 0.009505
Std Dev 0.9707

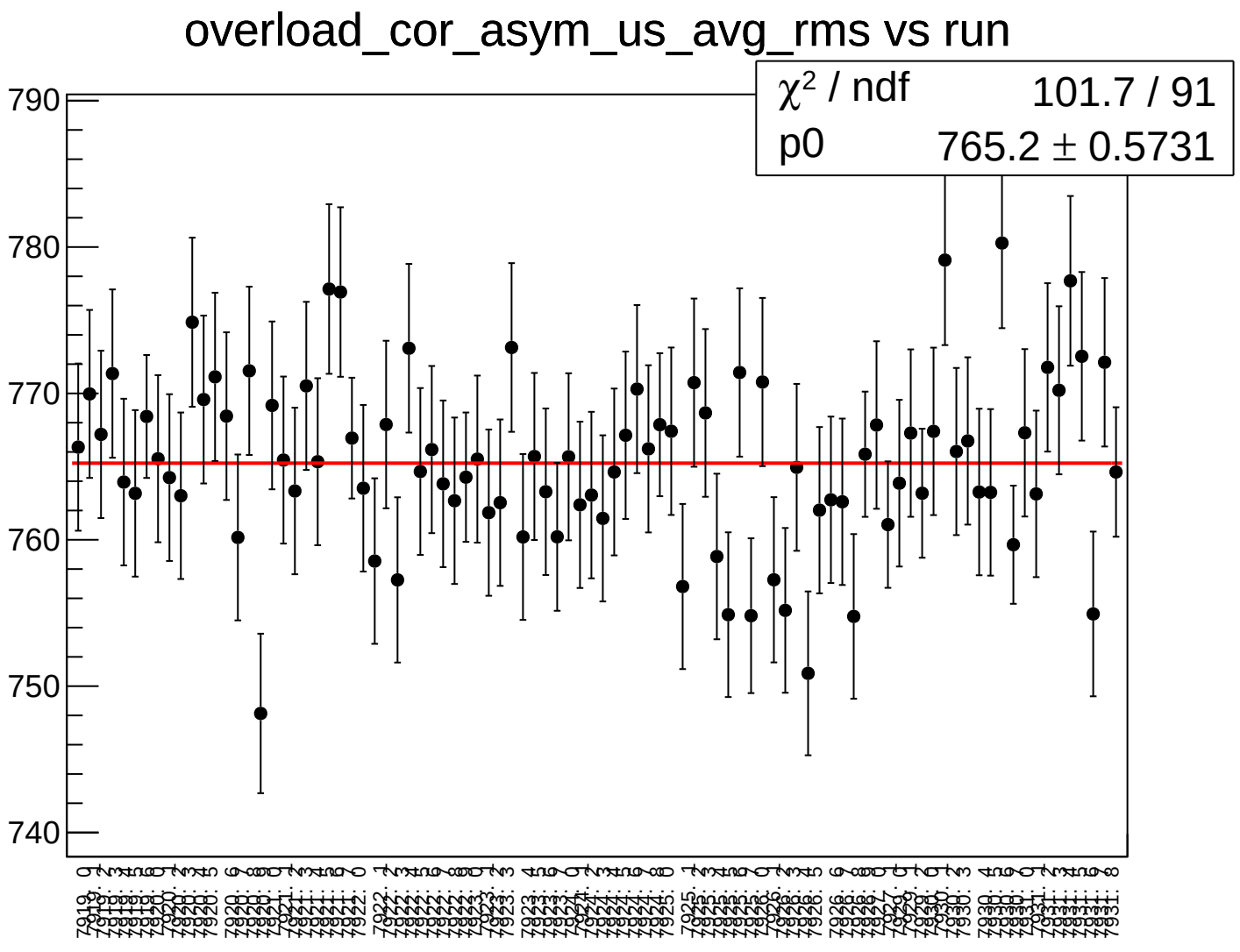

cor_asym_us_avg_rms vs run
χ² / ndf 102.2 / 91
p0 765.8 ± 0.5735
790
780
770
760
750
740

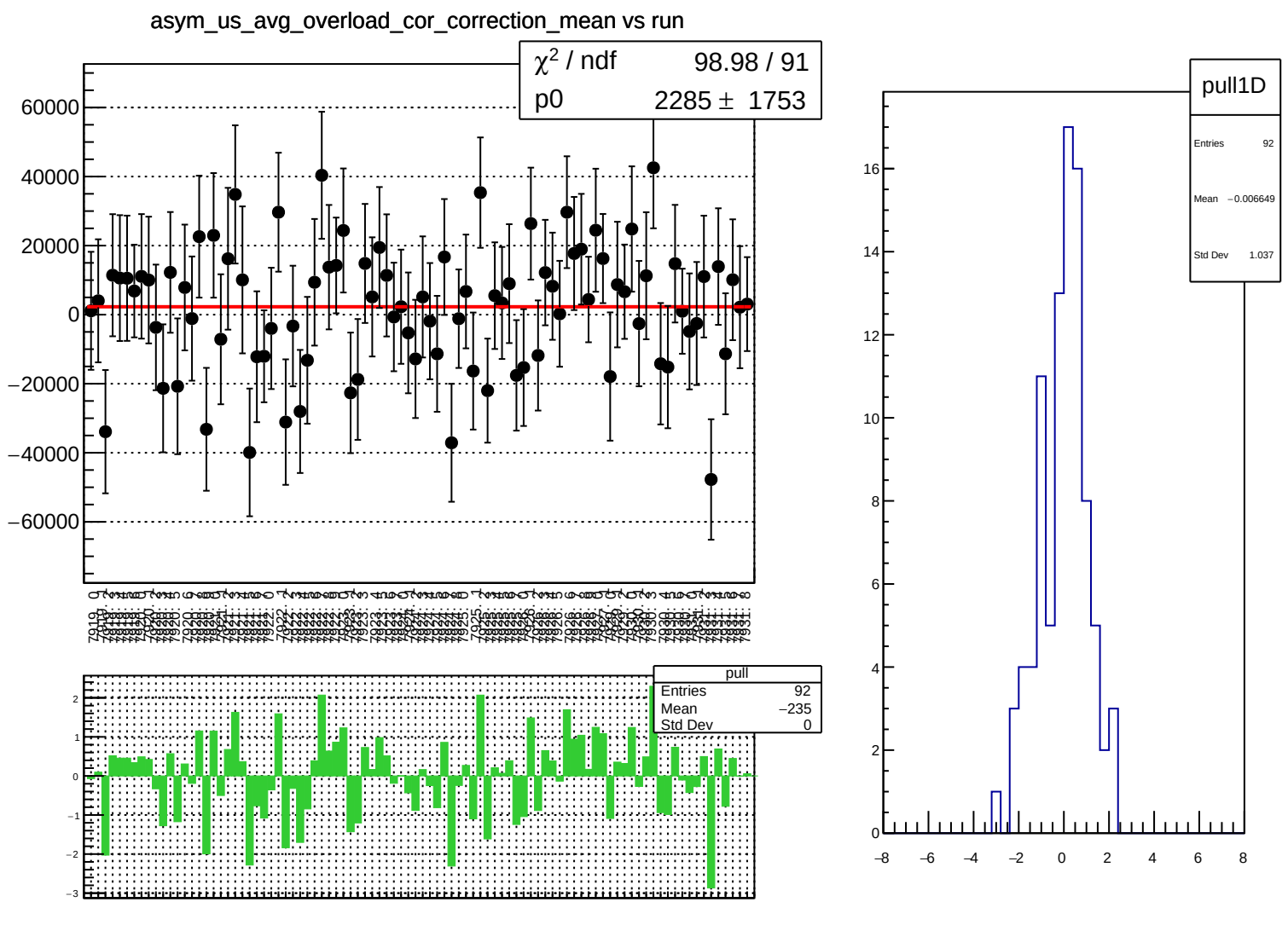

asym_us_avg_cor_correction_mean vs run
χ² / ndf 98.51 / 91
p0 2280 ± 1753
pull
Entries 92
Mean −234.4
Std Dev 0
pull1D
Entries 92
Mean −0.006546
Std Dev 1.035

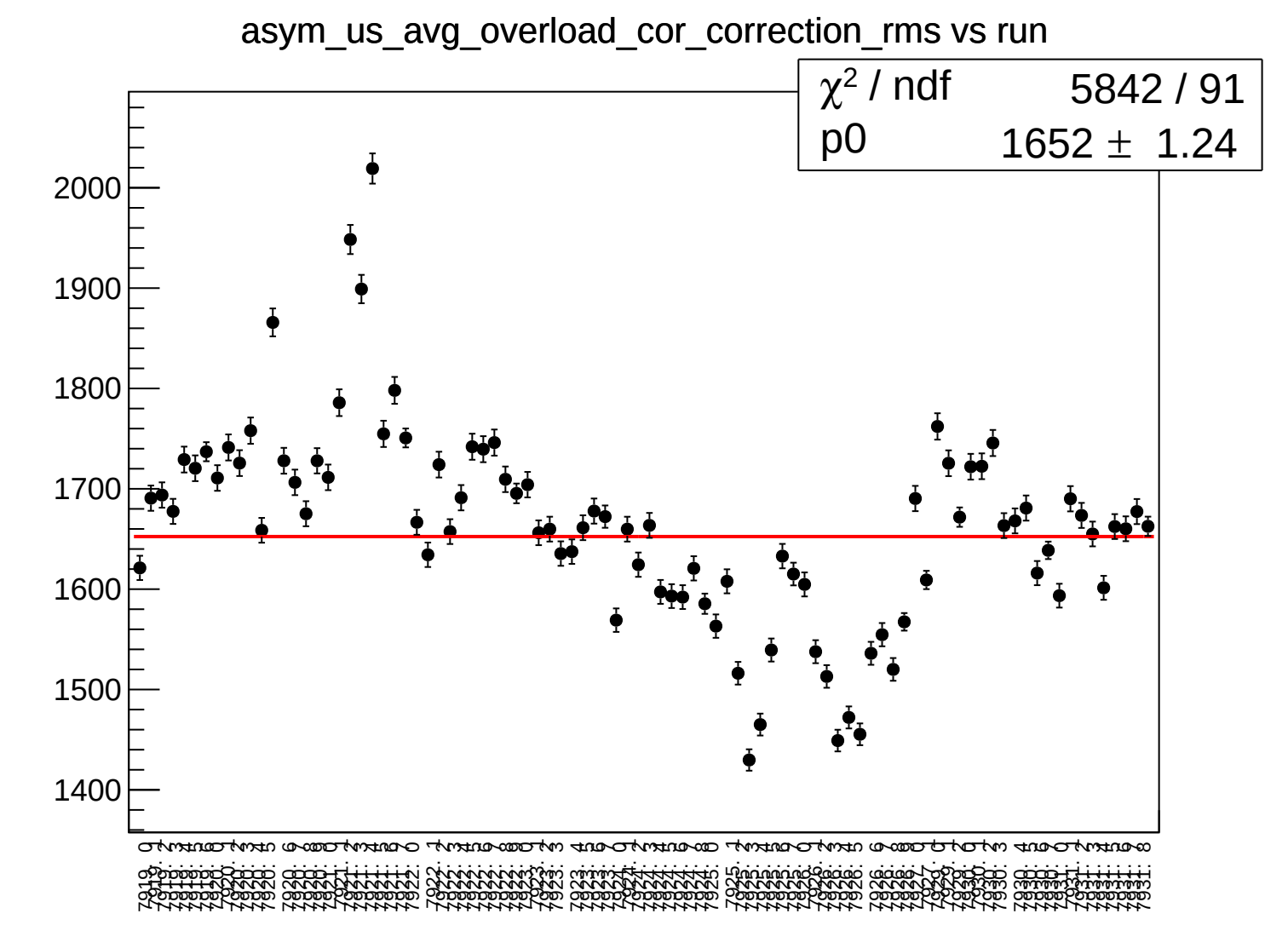

asym_us_avg_cor_correction_rms vs run
χ² / ndf 5846 / 91
p0 1652 ± 1.239
2000
1900
1800
1700
1600
1500
1400

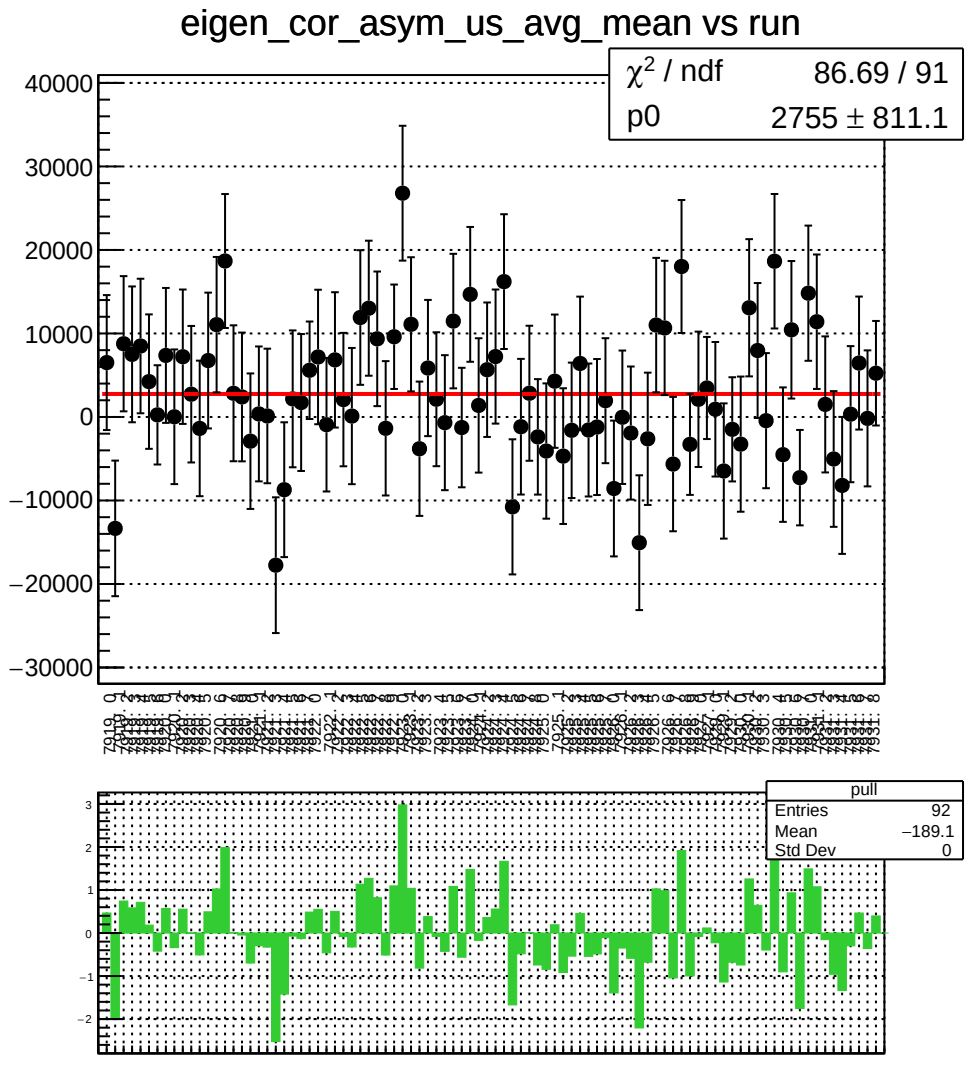

overload_cor_asym_us_avg_mean vs run
χ² / ndf 87.09 / 91
p0 2760 ± 810.5
pull
Entries 92
Mean −188.3
Std Dev 0

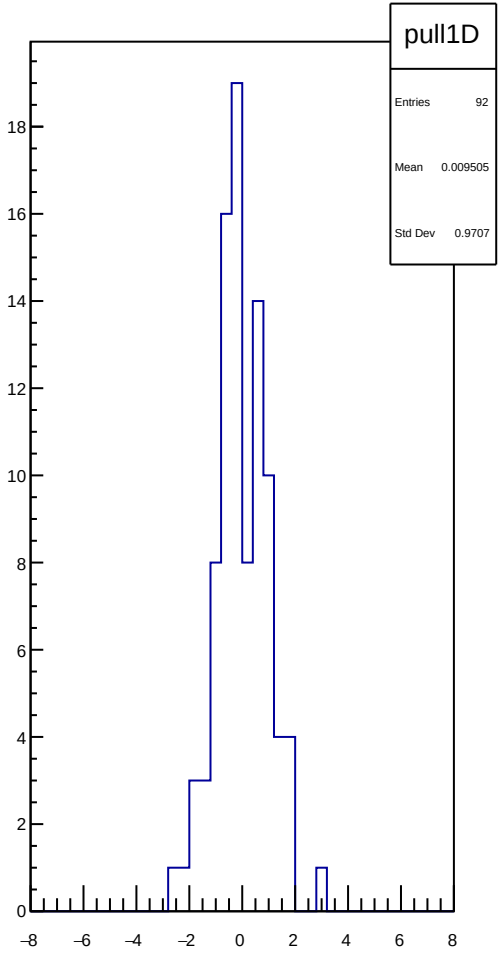

pull1D
Entries 92
Mean 0.009239
Std Dev 0.9729

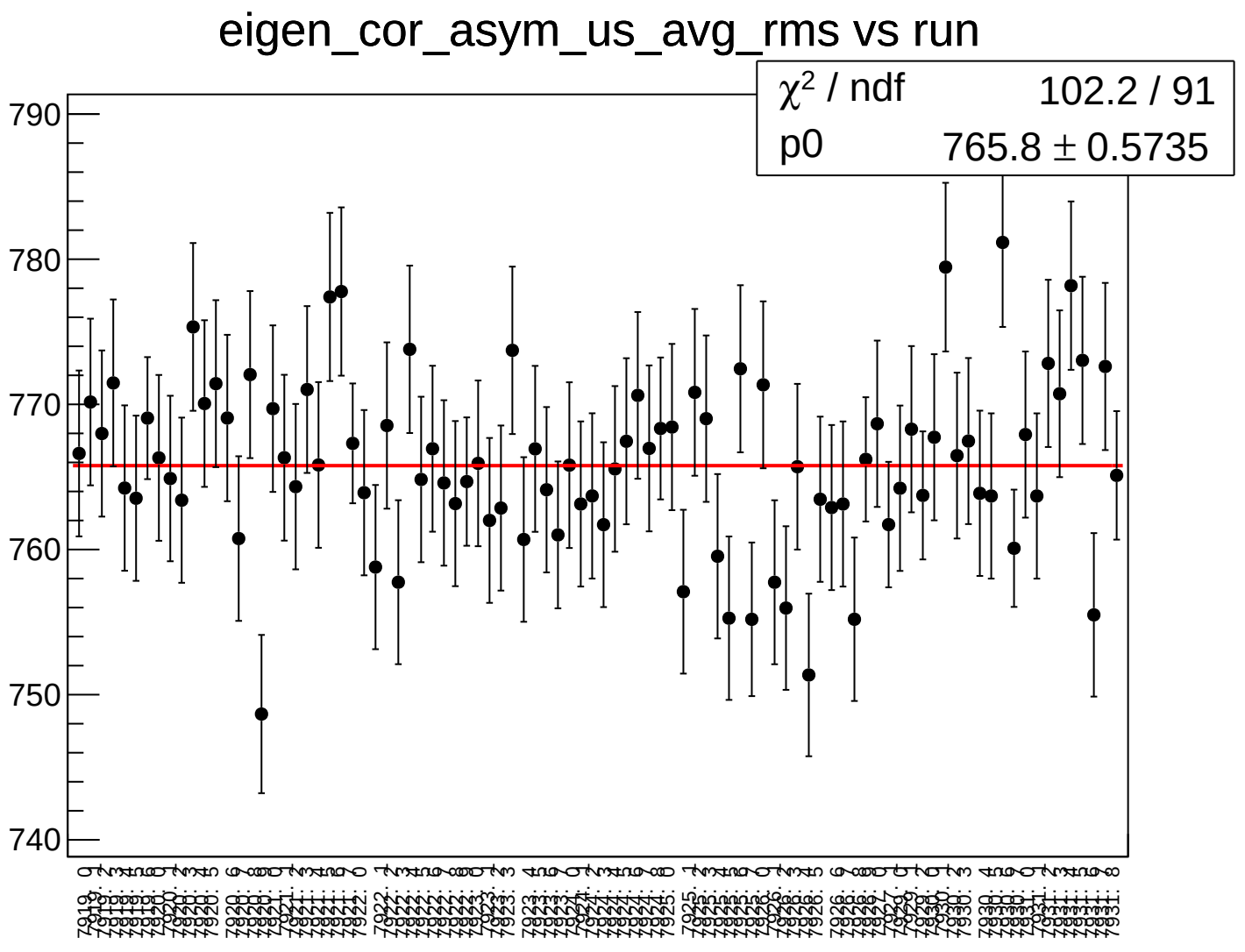

overload_cor_asym_us_avg_rms vs run
χ² / ndf 101.7 / 91
p0 765.2 ± 0.5731
790
780
770
760
750
740

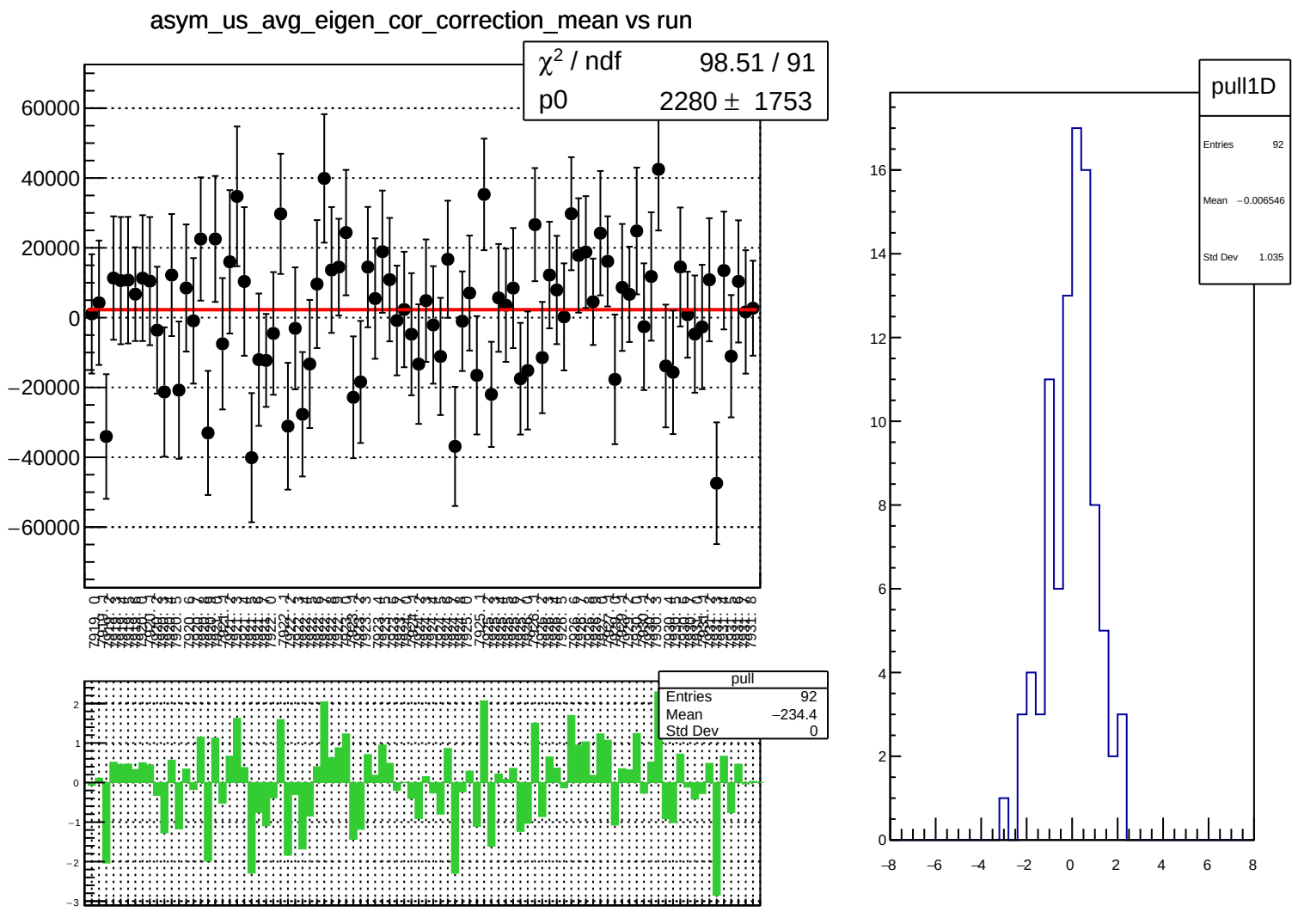

asym_us_avg_overload_cor_correction_mean vs run
χ² / ndf 98.98 / 91
p0 2285 ± 1753
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −235
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.006649
Std Dev 1.037
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

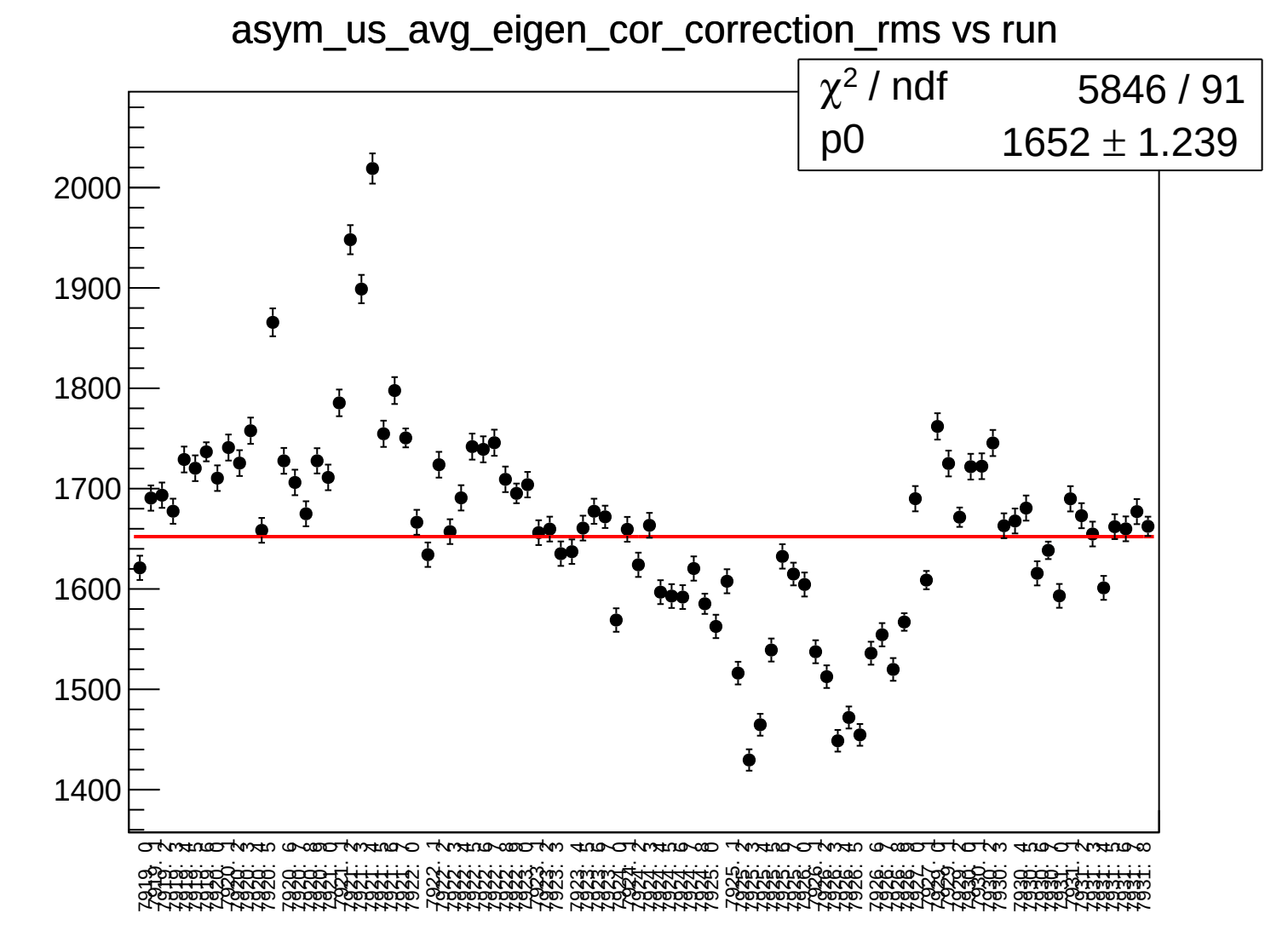

asym_us_avg_overload_cor_correction_rms vs run
χ² / ndf 5842 / 91
p0 1652 ± 1.24
2000
1900
1800
1700
1600
1500
1400

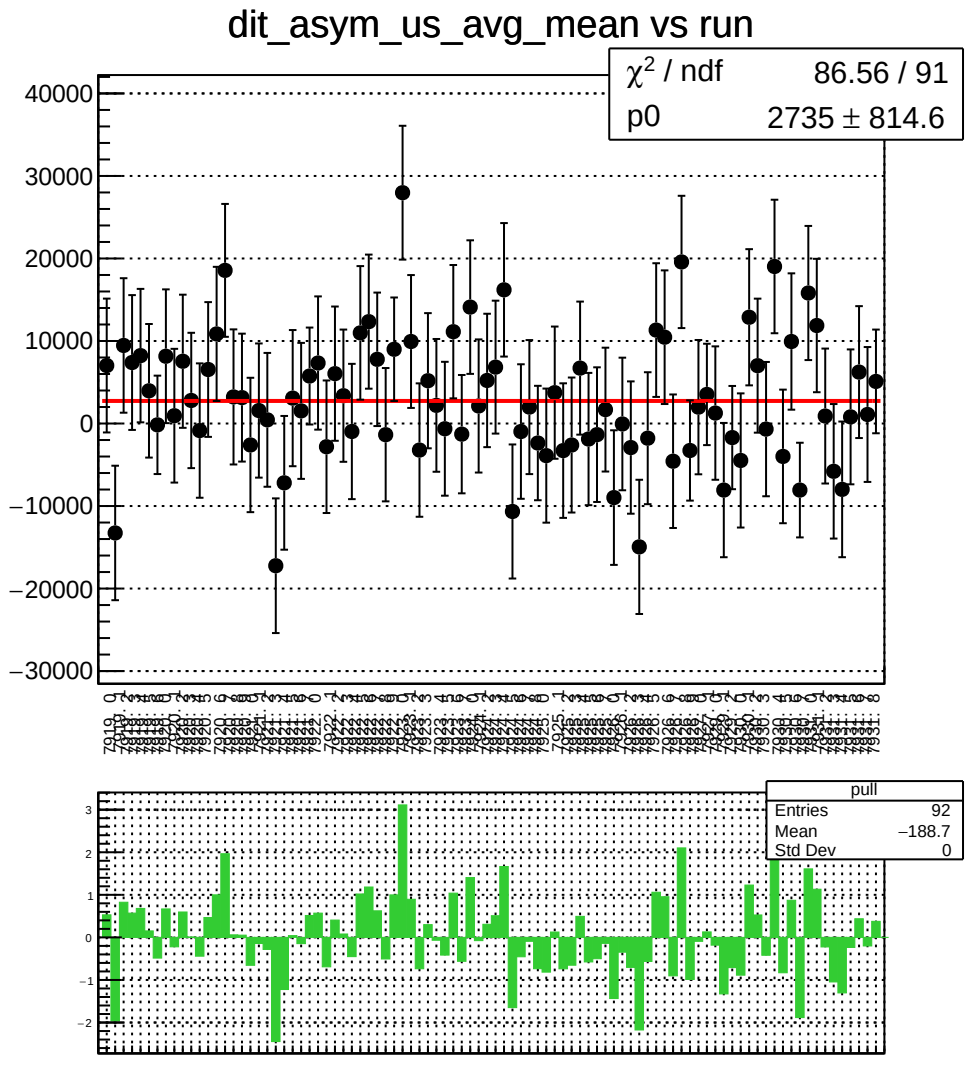

eigen_cor_asym_us_avg_mean vs run
χ² / ndf 86.69 / 91
p0 2755 ± 811.1
pull
Entries 92
Mean −189.1
Std Dev 0

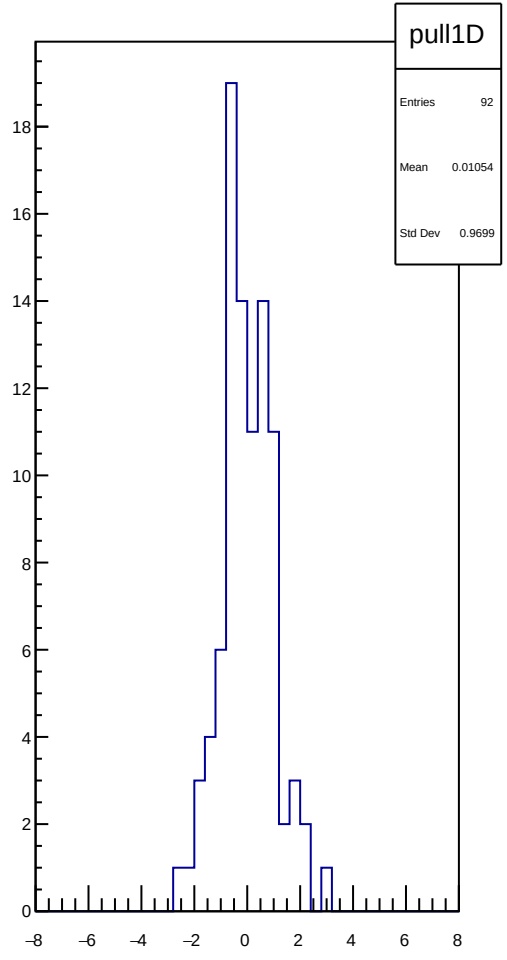

pull1D
Entries 92
Mean 0.009505
Std Dev 0.9707

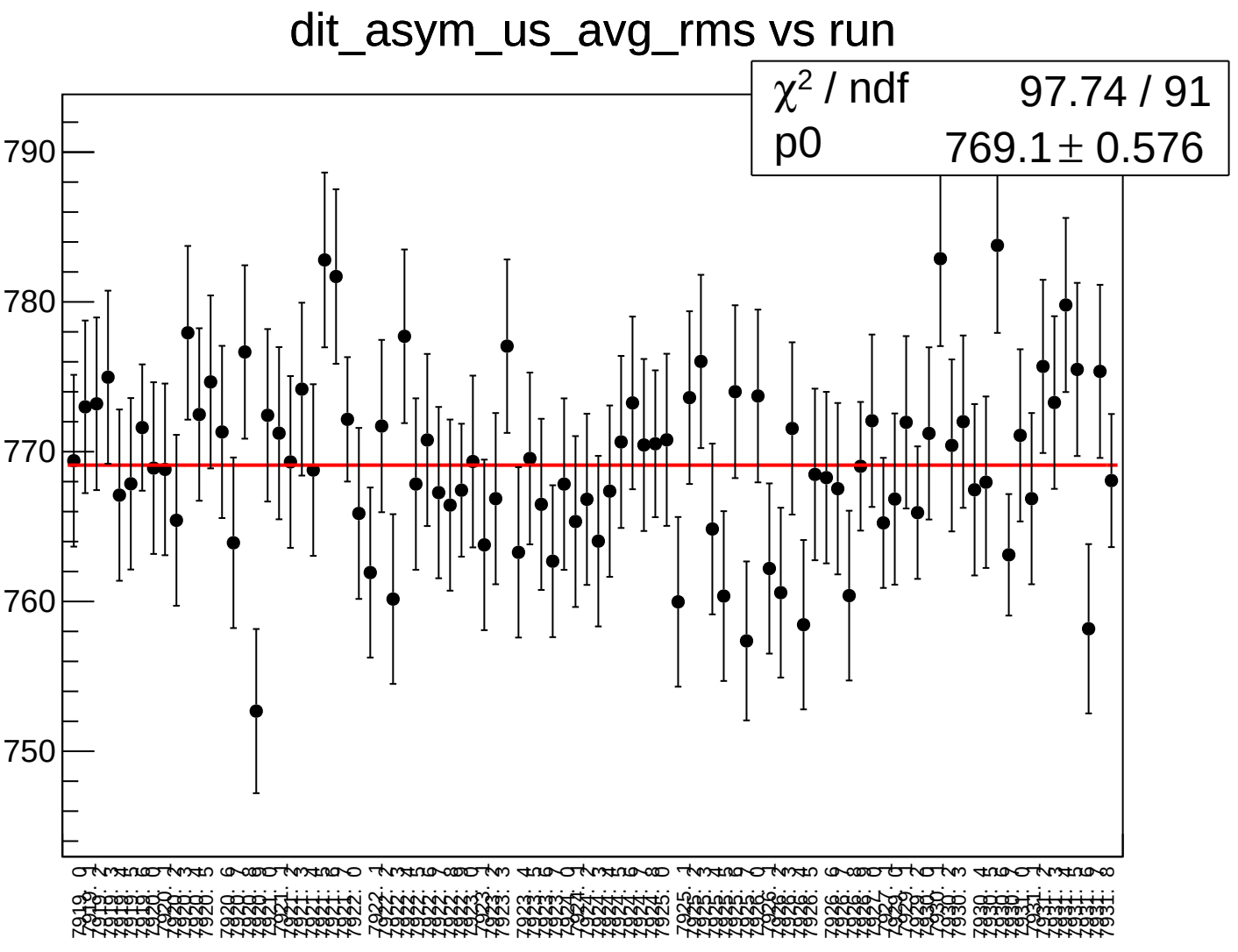

eigen_cor_asym_us_avg_rms vs run
χ² / ndf 102.2 / 91
p0 765.8 ± 0.5735
790
780
770
760
750
740

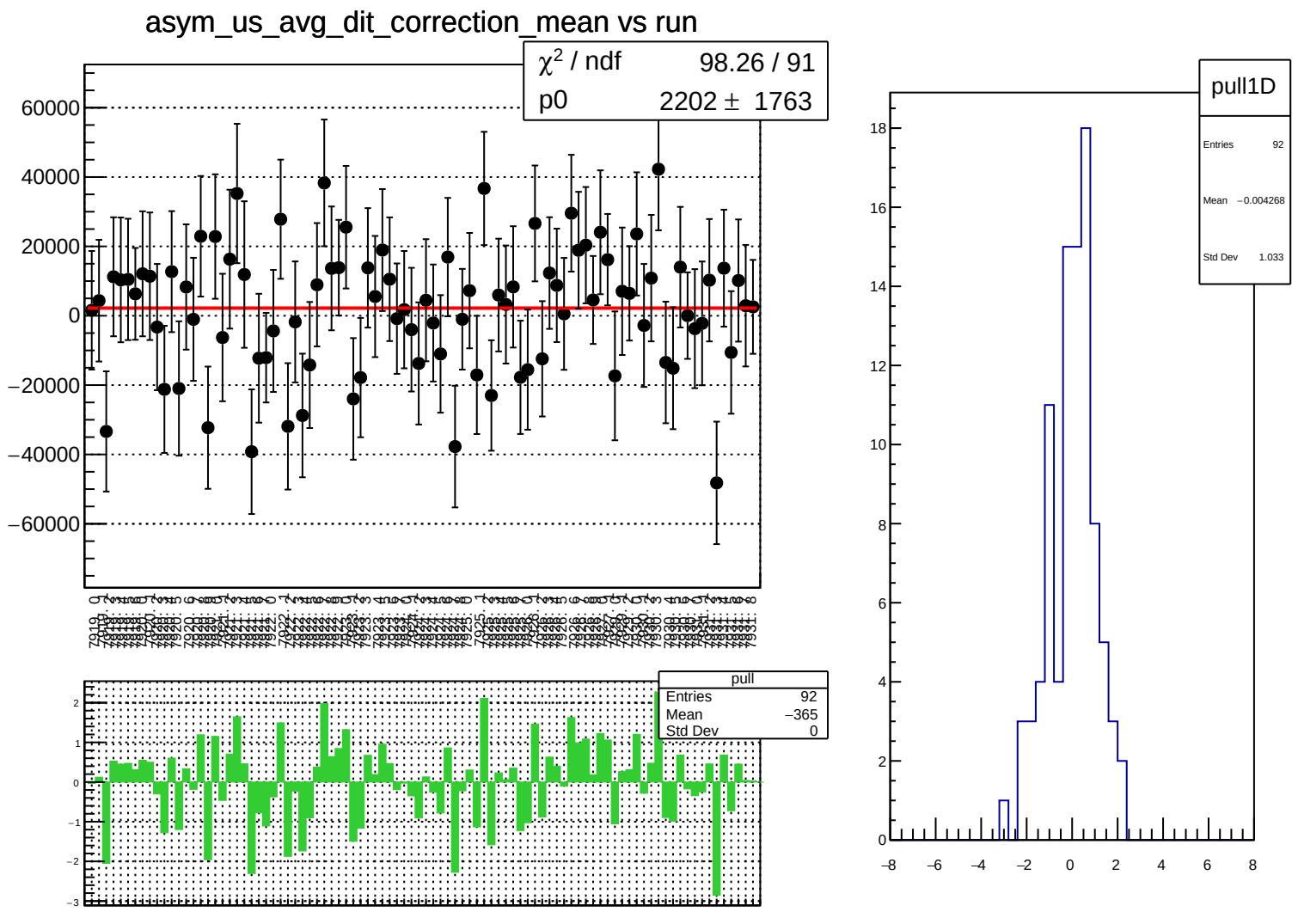

asym_us_avg_eigen_cor_correction_mean vs run
χ² / ndf 98.51 / 91
p0 2280 ± 1753
pull
Entries 92
Mean −234.4
Std Dev 0
pull1D
Entries 92
Mean −0.006546
Std Dev 1.035

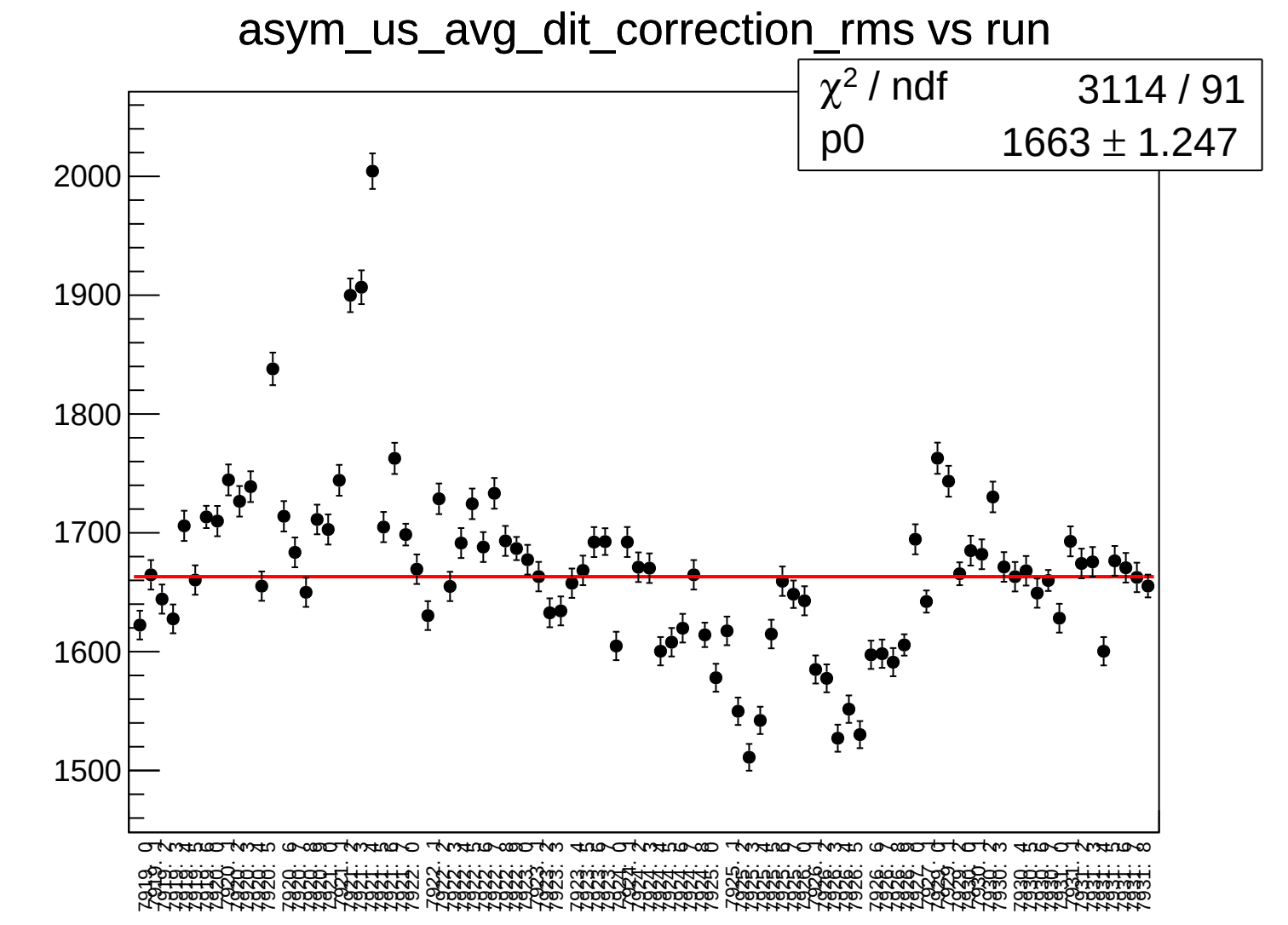

asym_us_avg_eigen_cor_correction_rms vs run
χ² / ndf 5846 / 91
p0 1652 ± 1.239
2000
1900
1800
1700
1600
1500
1400

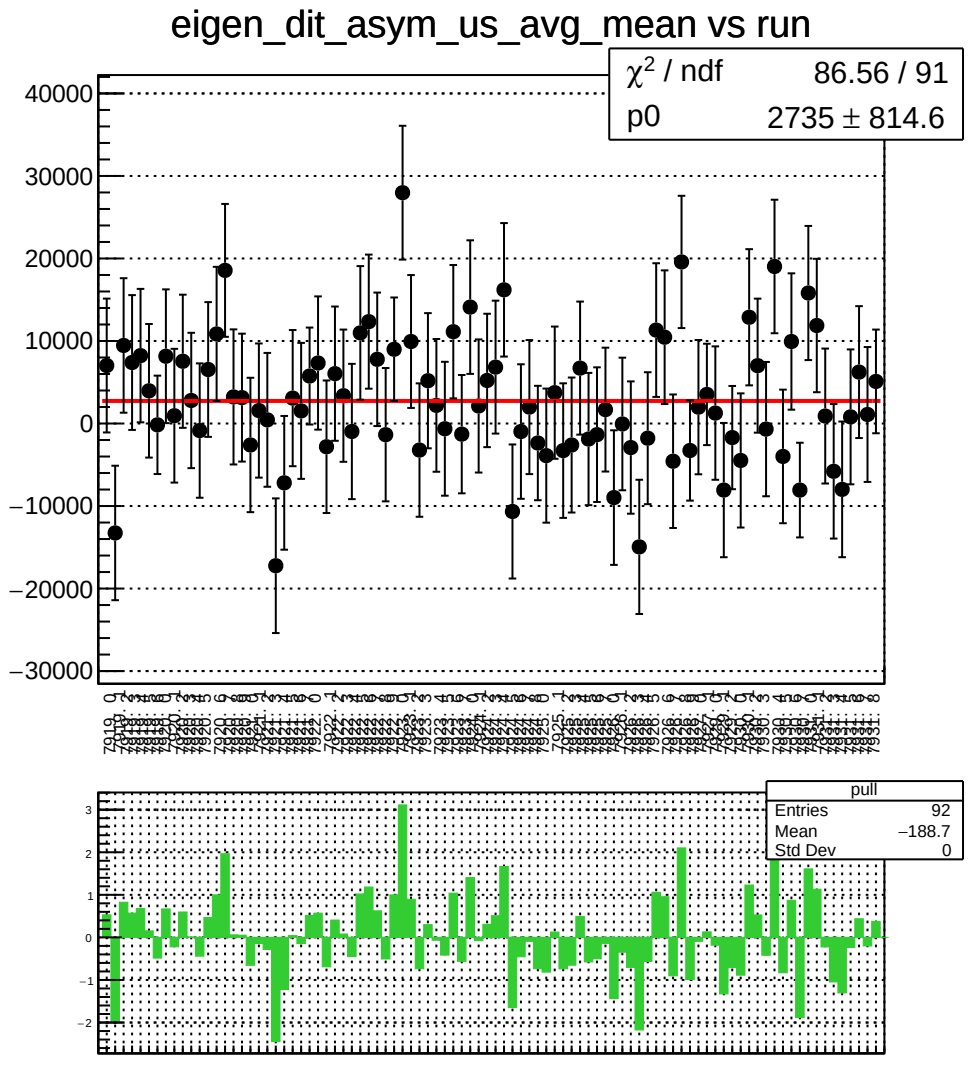

dit_asym_us_avg_mean vs run
χ² / ndf 86.56 / 91
p0 2735 ± 814.6
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −188.7
Std Dev 0
3
2
1
0
−1
−2

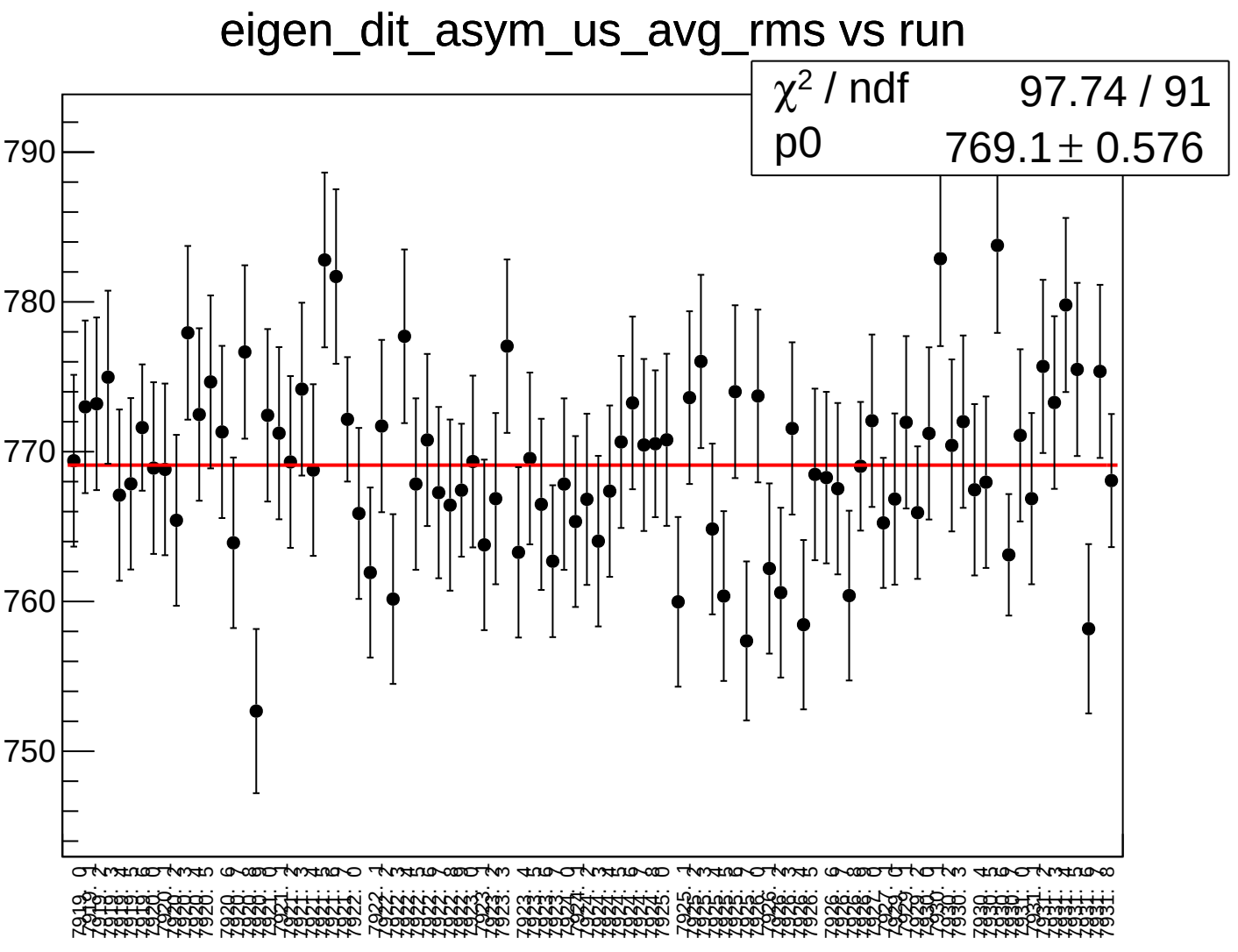

pull1D
Entries 92
Mean 0.01054
Std Dev 0.9699
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

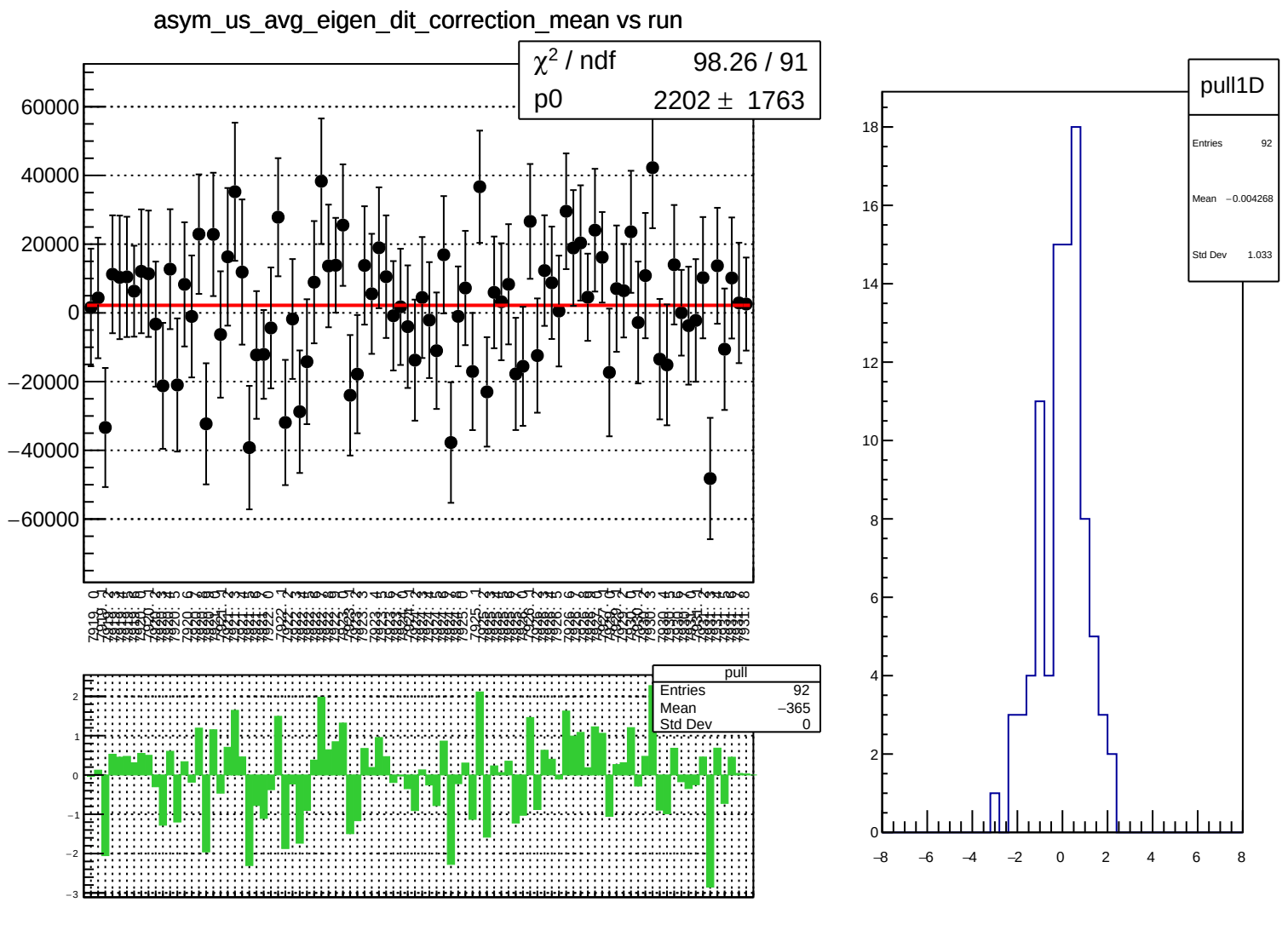

dit_asym_us_avg_rms vs run
χ² / ndf 97.74 / 91
p0 769.1 ± 0.576
790
780
770
760
750

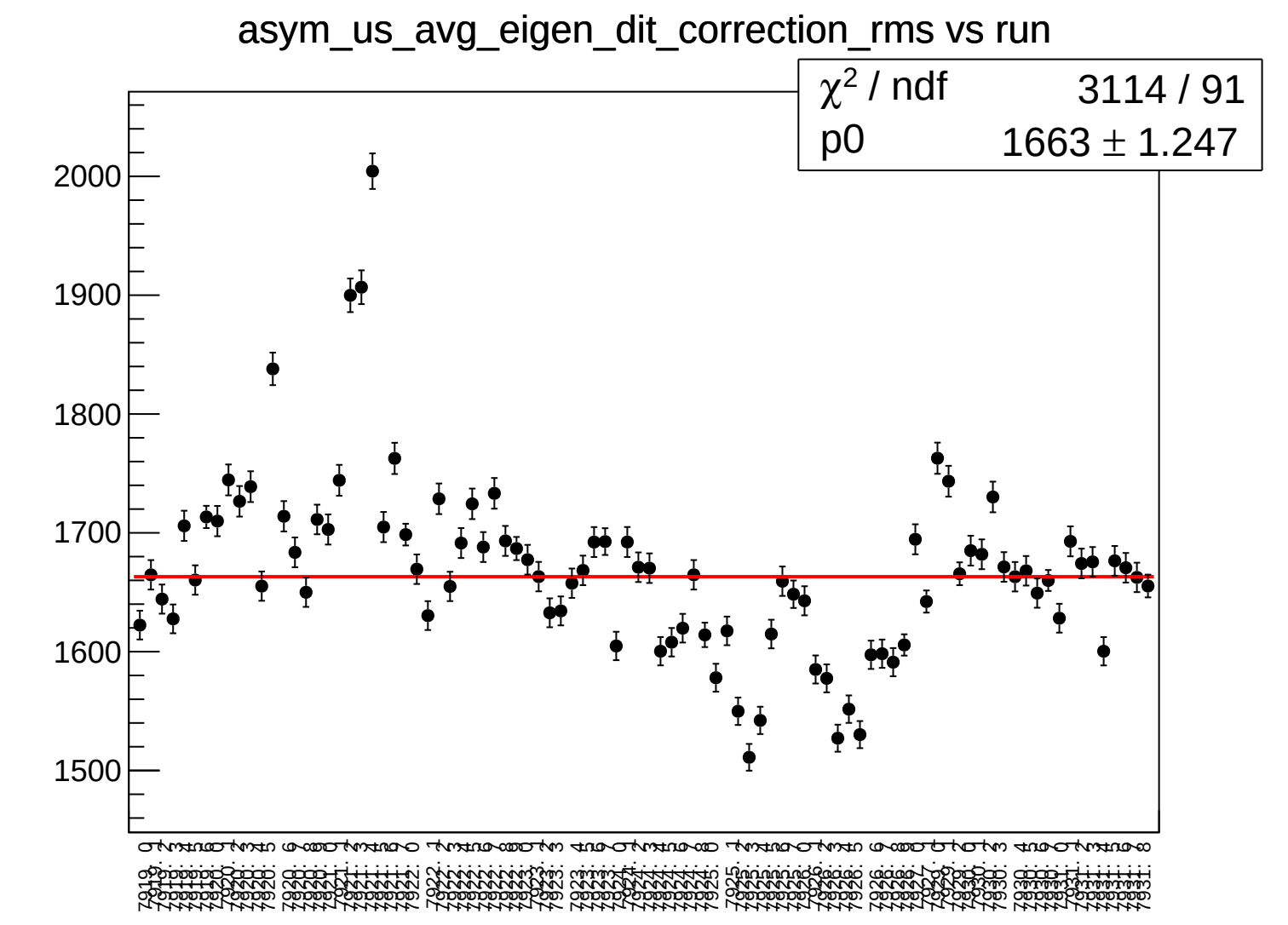

asym_us_avg_dit_correction_mean vs run
χ² / ndf 98.26 / 91
p0 2202 ± 1763
pull
Entries 92
Mean −365
Std Dev 0
pull1D
Entries 92
Mean −0.004268
Std Dev 1.033

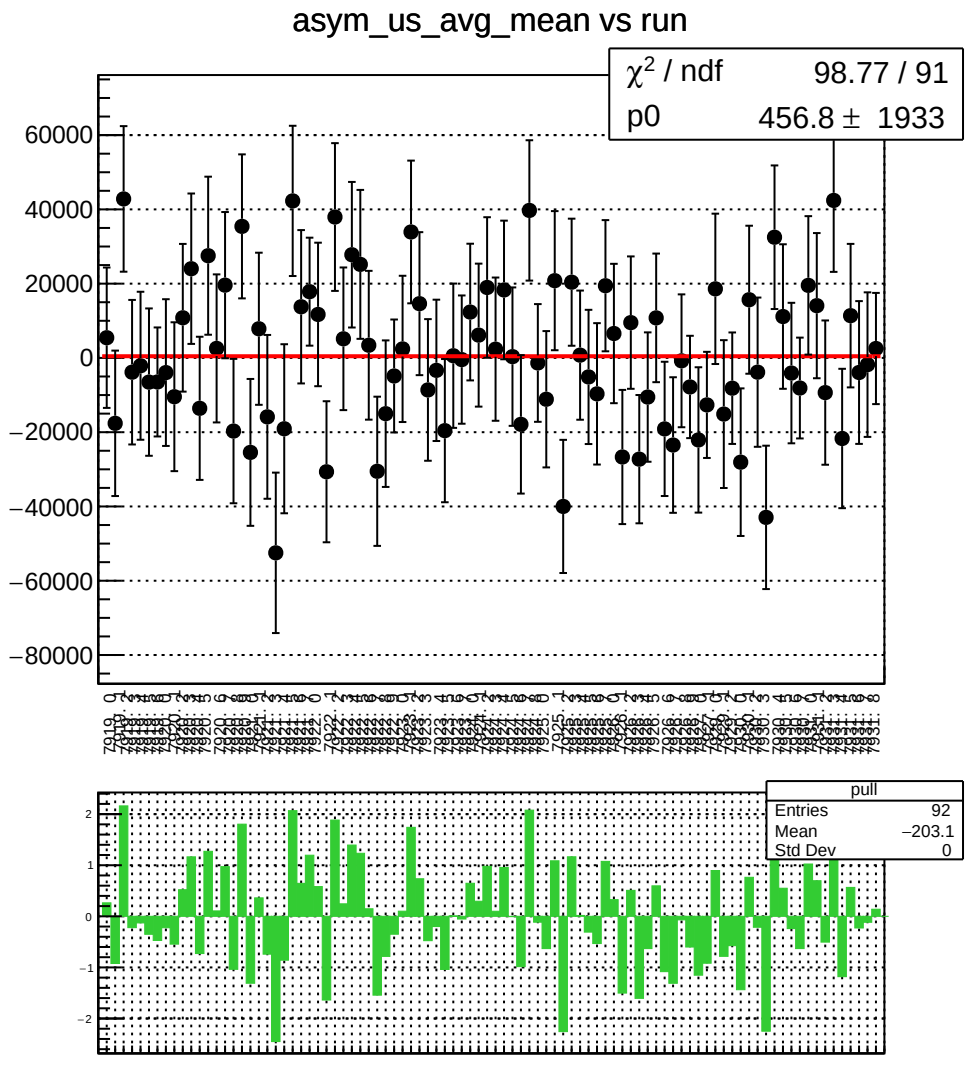

asym_us_avg_dit_correction_rms vs run
χ² / ndf 3114 / 91
p0 1663 ± 1.247
2000
1900
1800
1700
1600
1500

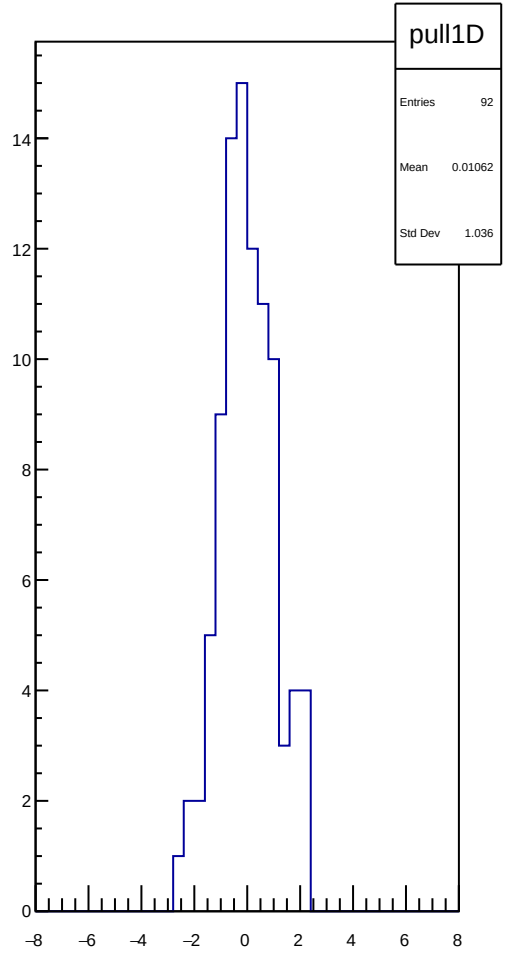

eigen_dit_asym_us_avg_mean vs run
χ² / ndf 86.56 / 91
p0 2735 ± 814.6
pull
Entries 92
Mean −188.7
Std Dev 0
pull1D
Entries 92
Mean 0.01054
Std Dev 0.9699

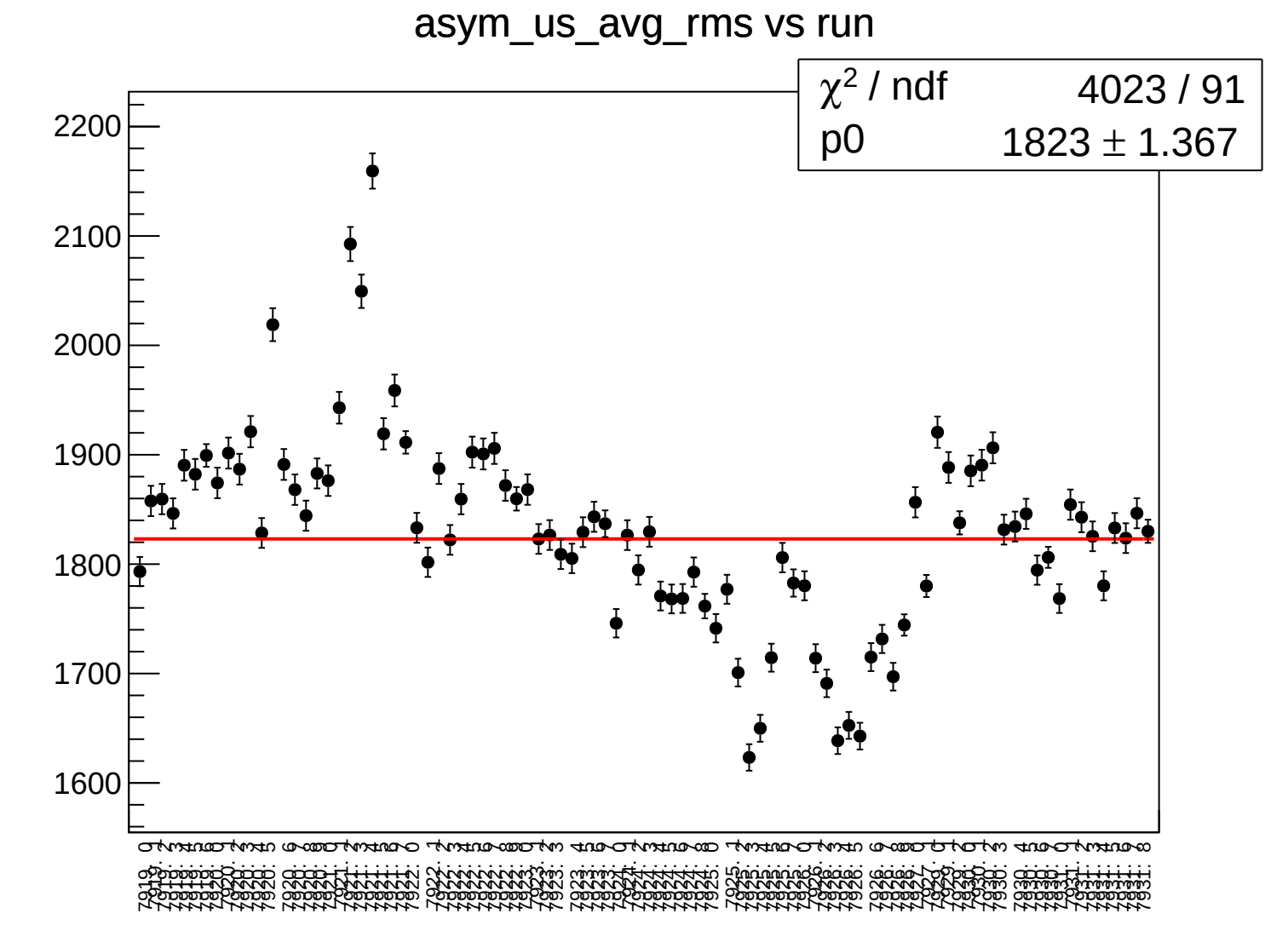

eigen_dit_asym_us_avg_rms vs run
χ² / ndf 97.74 / 91
p0 769.1 ± 0.576
790
780
770
760
750

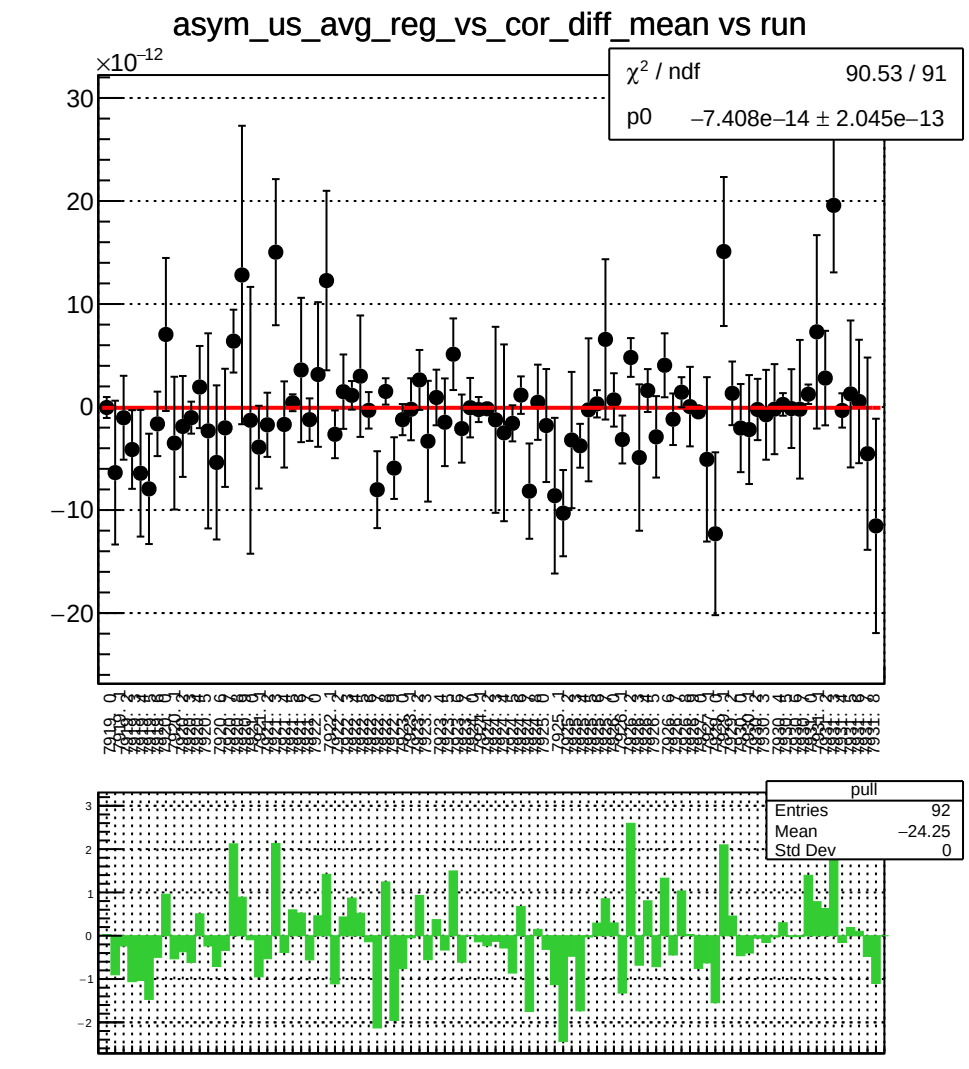

asym_us_avg_eigen_dit_correction_mean vs run
χ² / ndf 98.26 / 91
p0 2202 ± 1763
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −365
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.004268
Std Dev 1.033
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

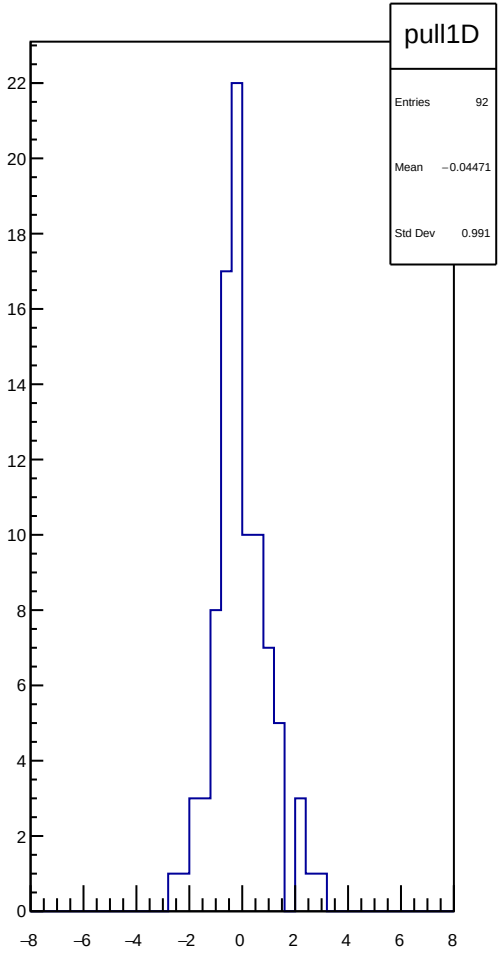

asym_us_avg_eigen_dit_correction_rms vs run
χ² / ndf 3114 / 91
p0 1663 ± 1.247
2000
1900
1800
1700
1600
1500

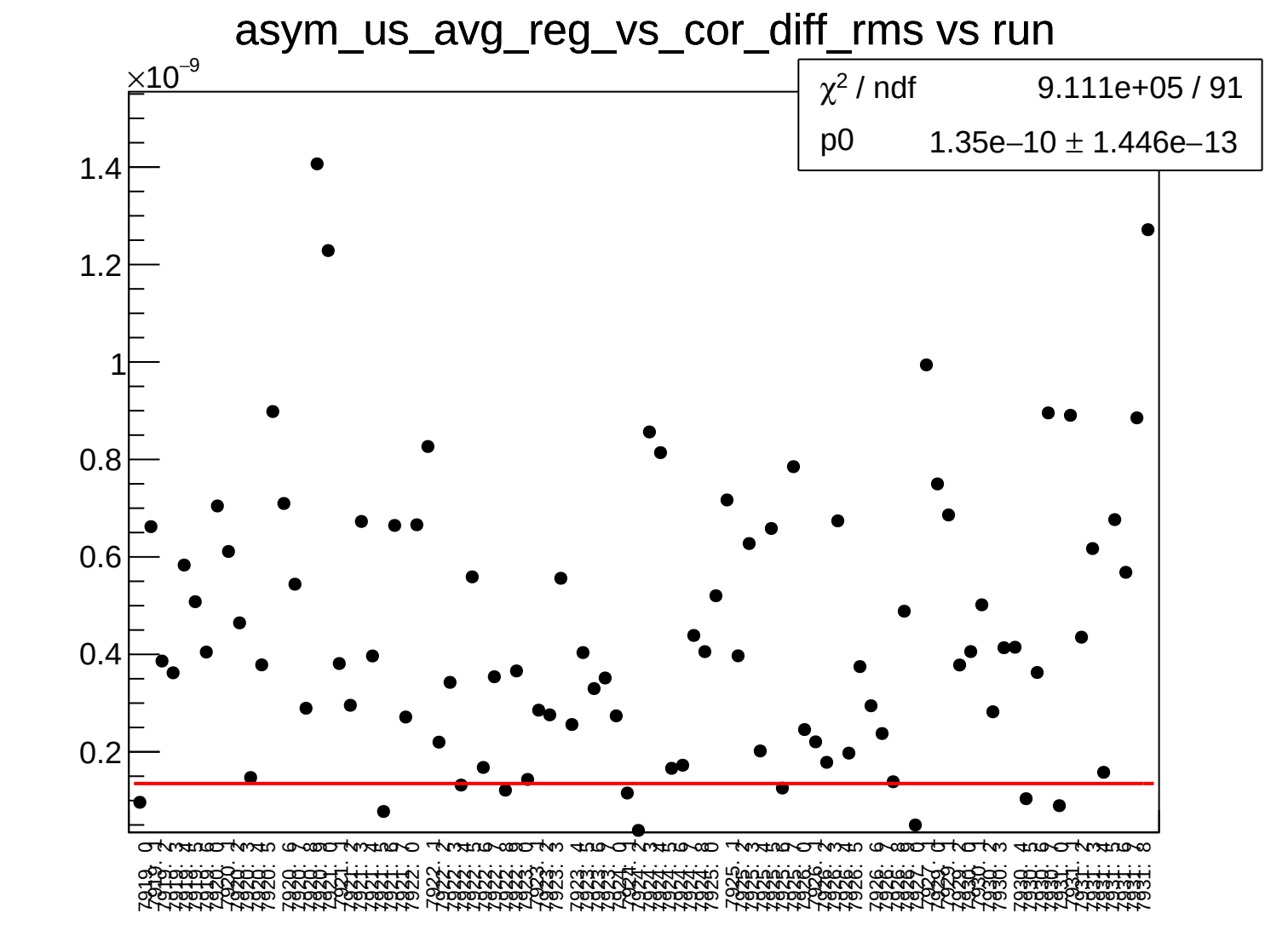

asym_us_avg_mean vs run
χ² / ndf 98.77 / 91
p0 456.8 ± 1933
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean −203.1
Std Dev 0
2
1
0
−1
−2

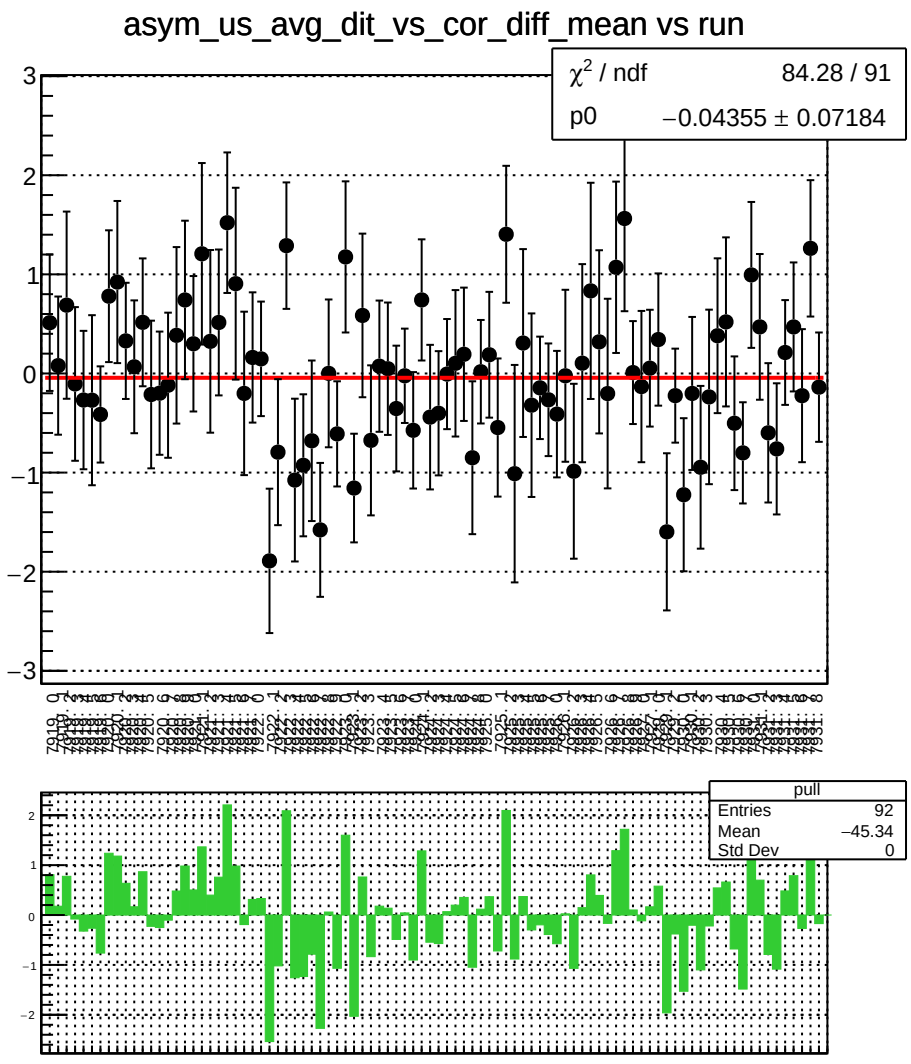

pull1D
Entries 92
Mean 0.01062
Std Dev 1.036
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

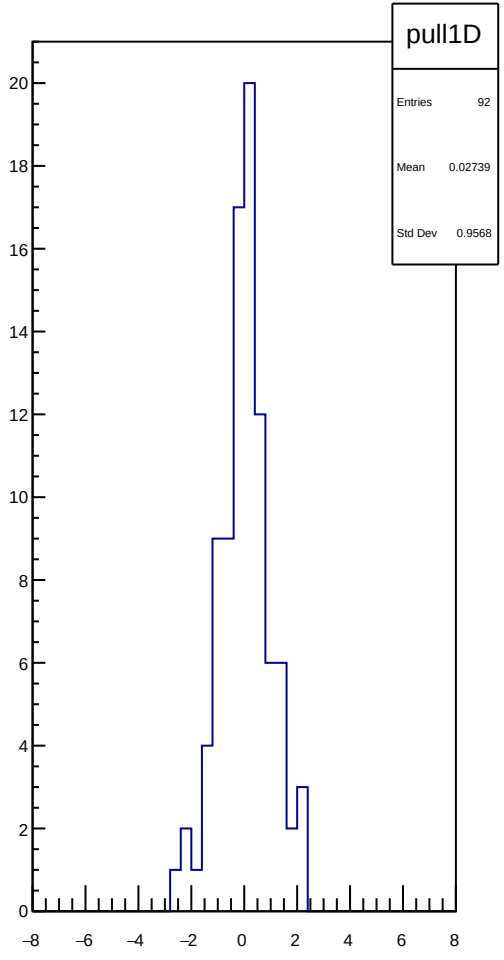

asym_us_avg_rms vs run
χ^2 / ndf 4023 / 91
p0 1823 ± 1.367
2200
2100
2000
1900
1800
1700
1600

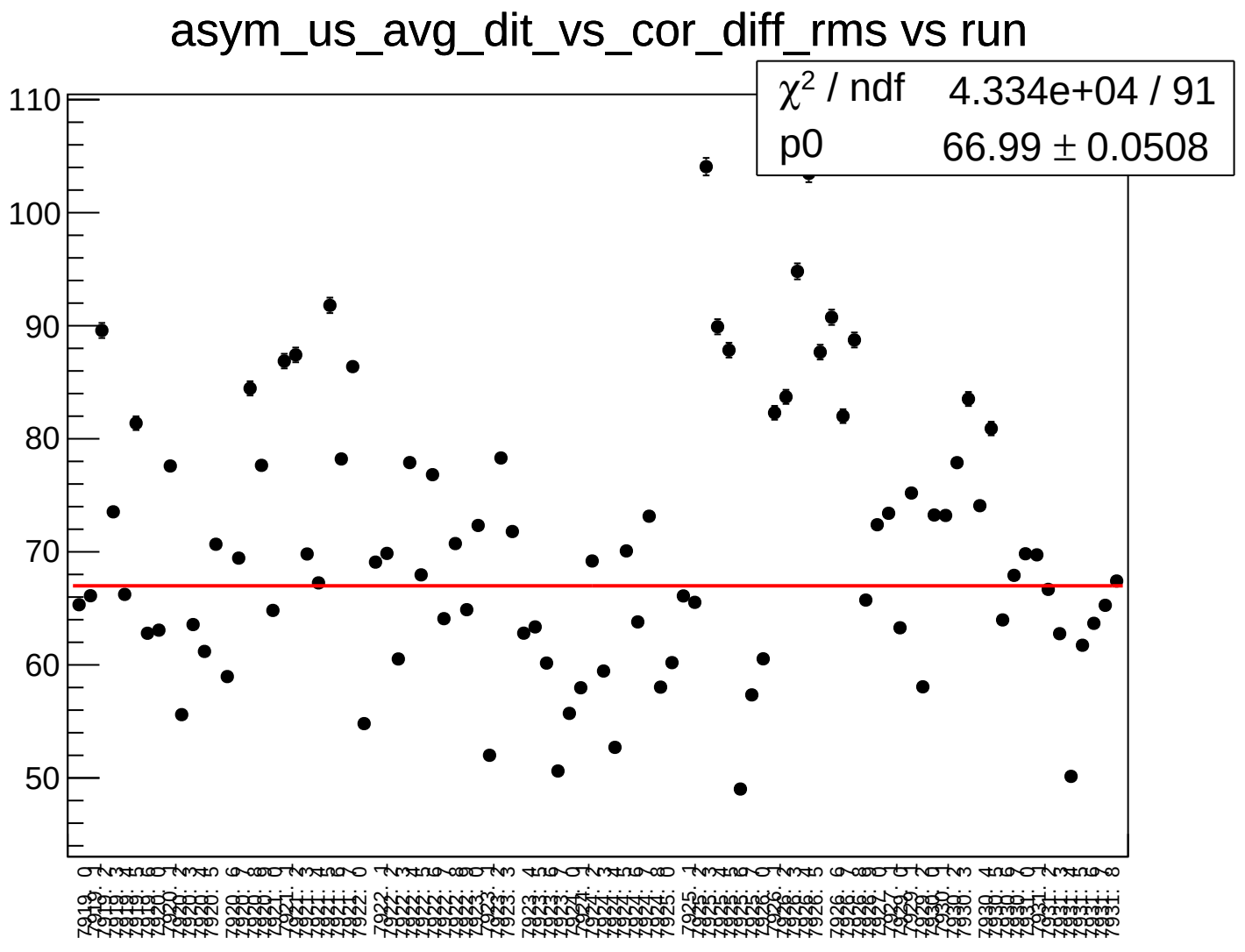

asym_us_avg_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.53 / 91
p0 −7.408e−14 ± 2.045e−13
pull
Entries 92
Mean −24.25
Std Dev 0

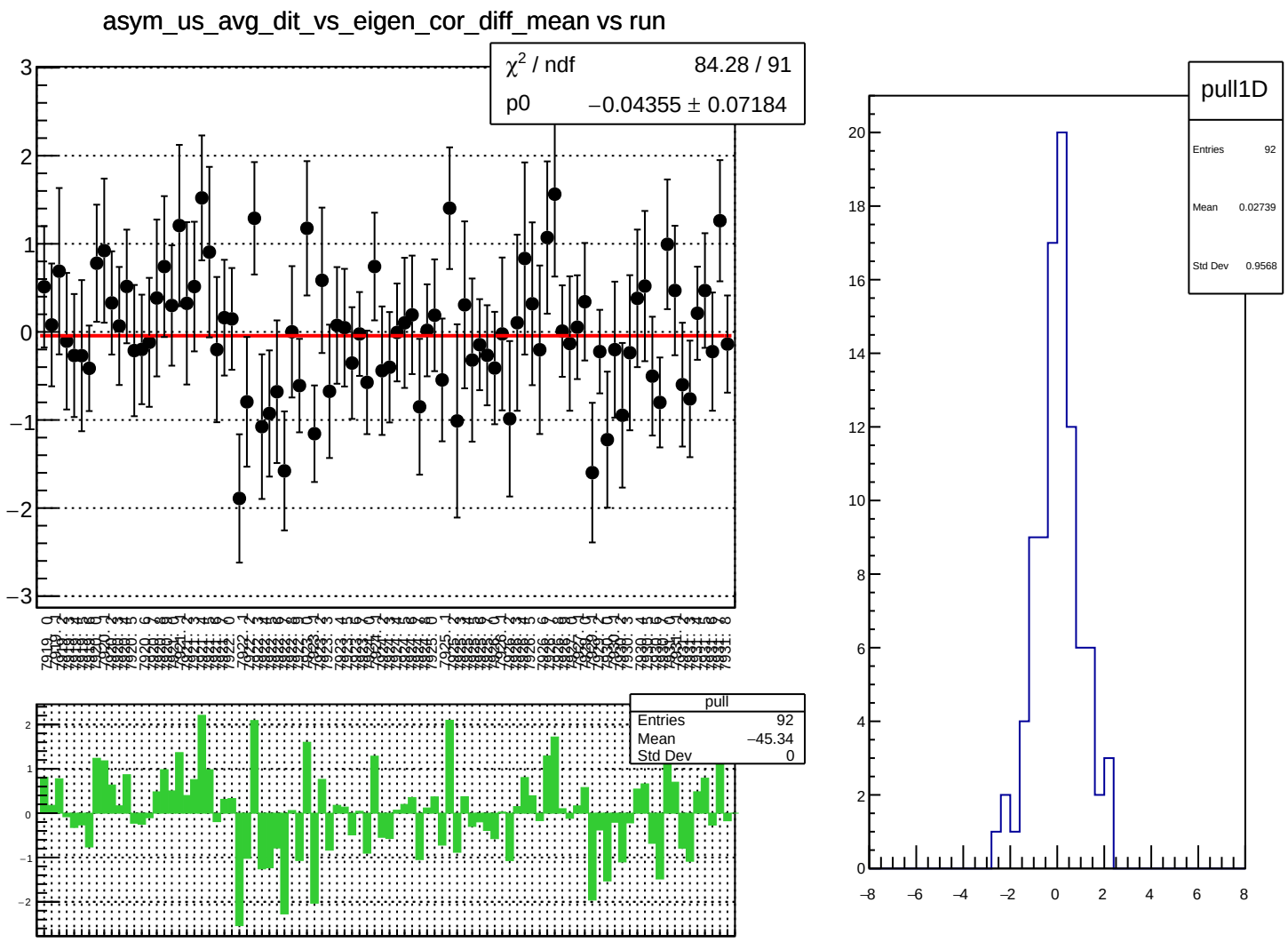

pull1D
Entries 92
Mean −0.04471
Std Dev 0.991

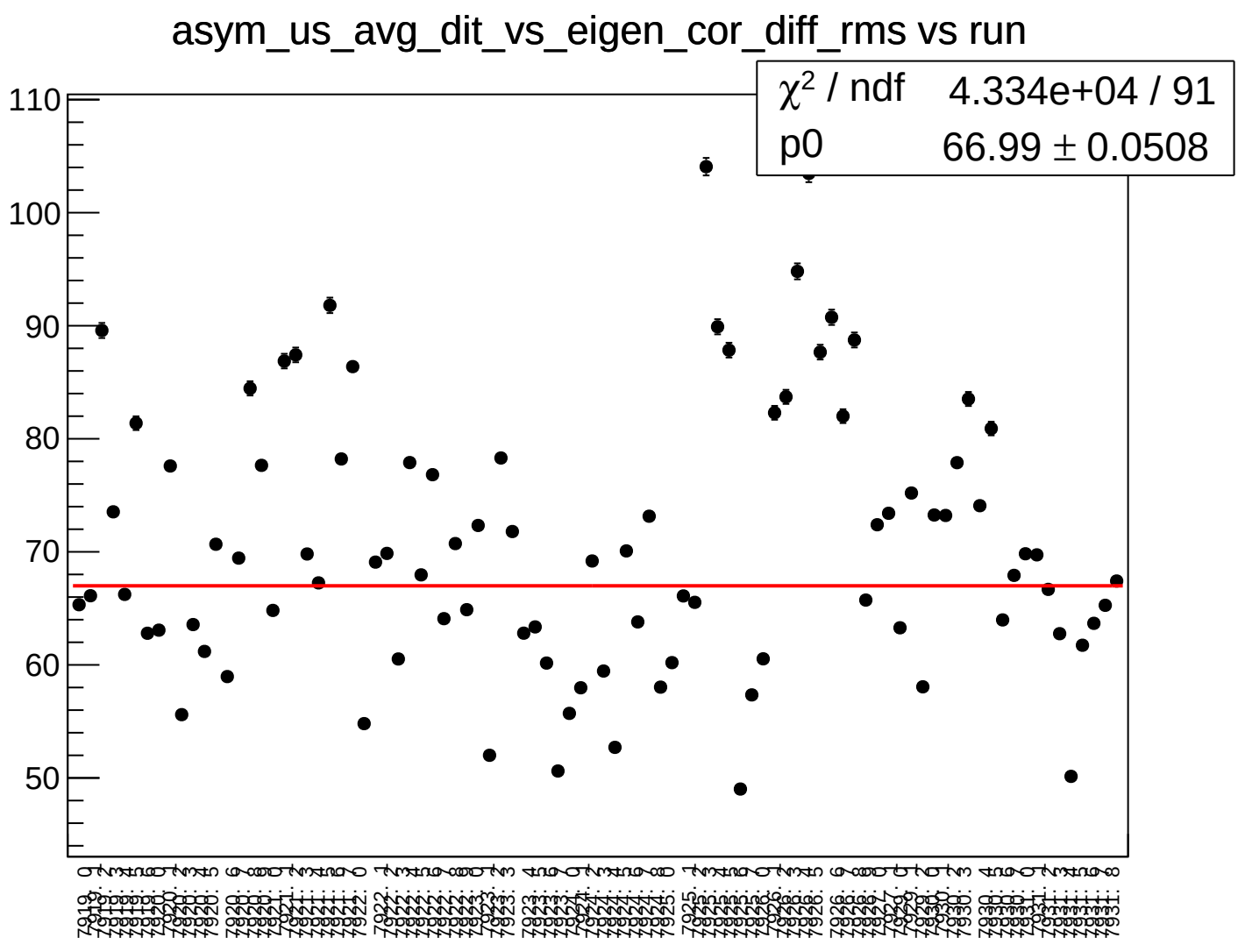

asym_us_avg_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.111e+05 / 91
p0 1.35e−10 ± 1.446e−13
1.4
1.2
1
0.8
0.6
0.4
0.2

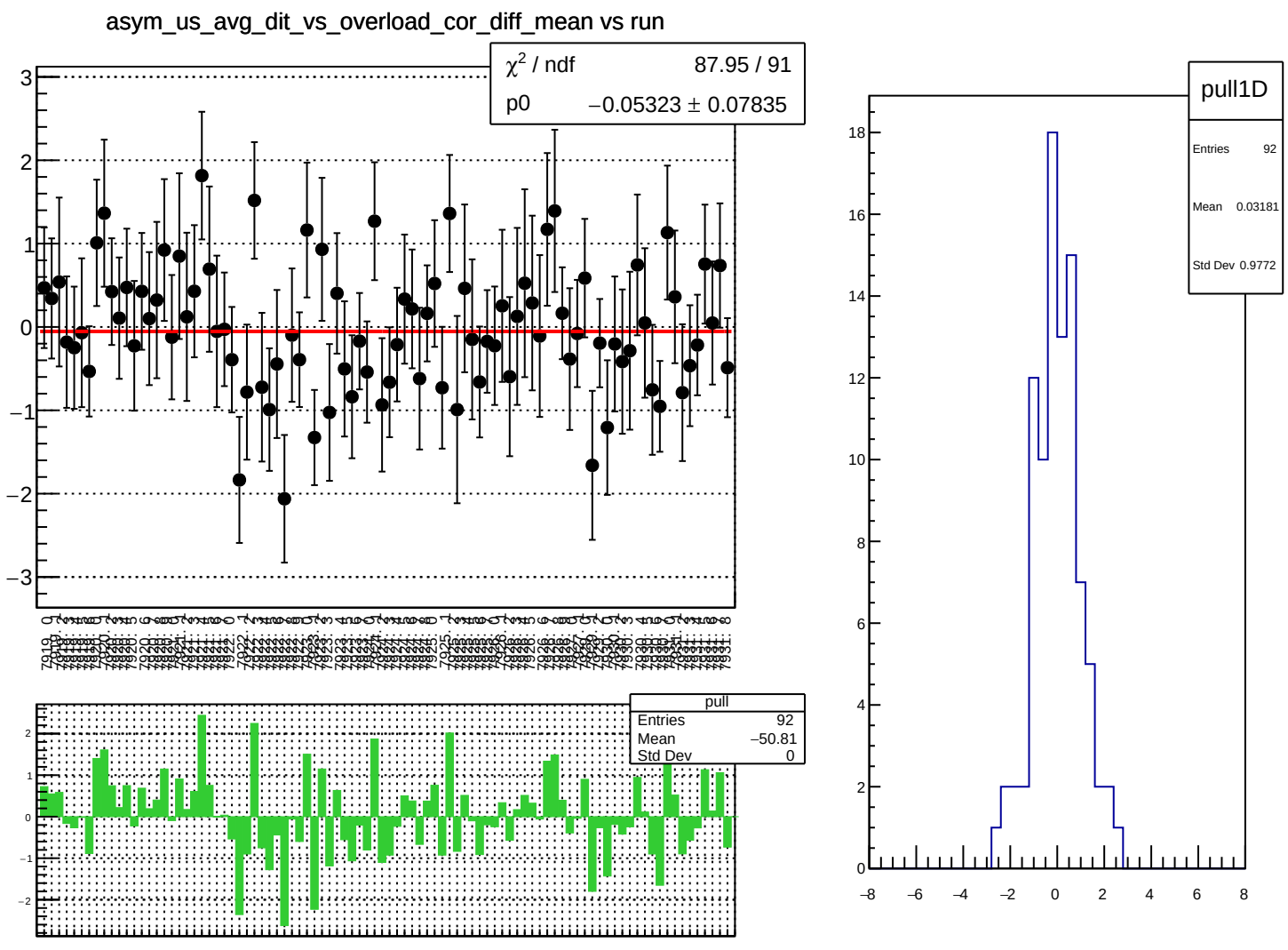

asym_us_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 84.28 / 91
p0 −0.04355 ± 0.07184
pull
Entries 92
Mean −45.34
Std Dev 0

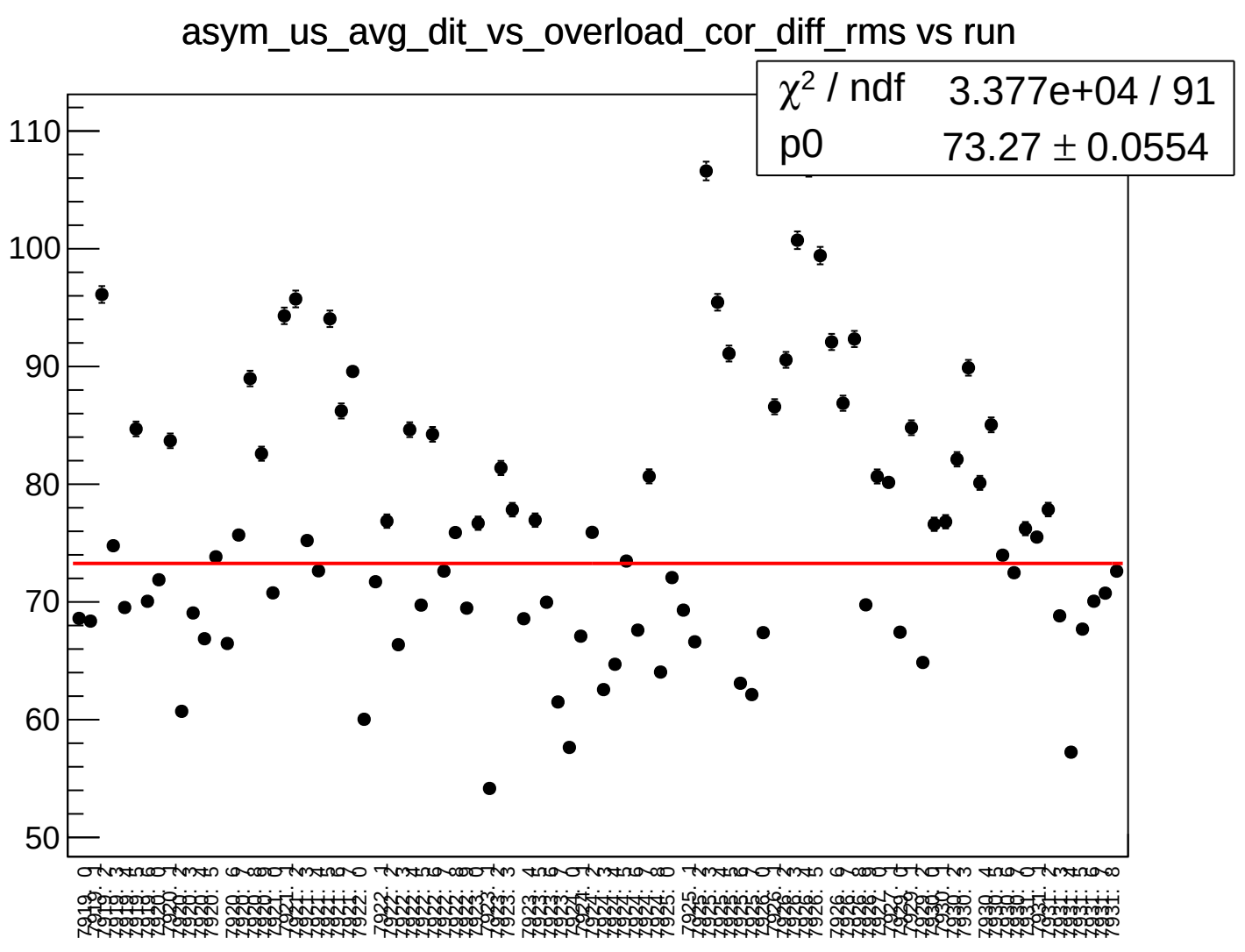

pull1D
Entries 92
Mean 0.02739
Std Dev 0.9568

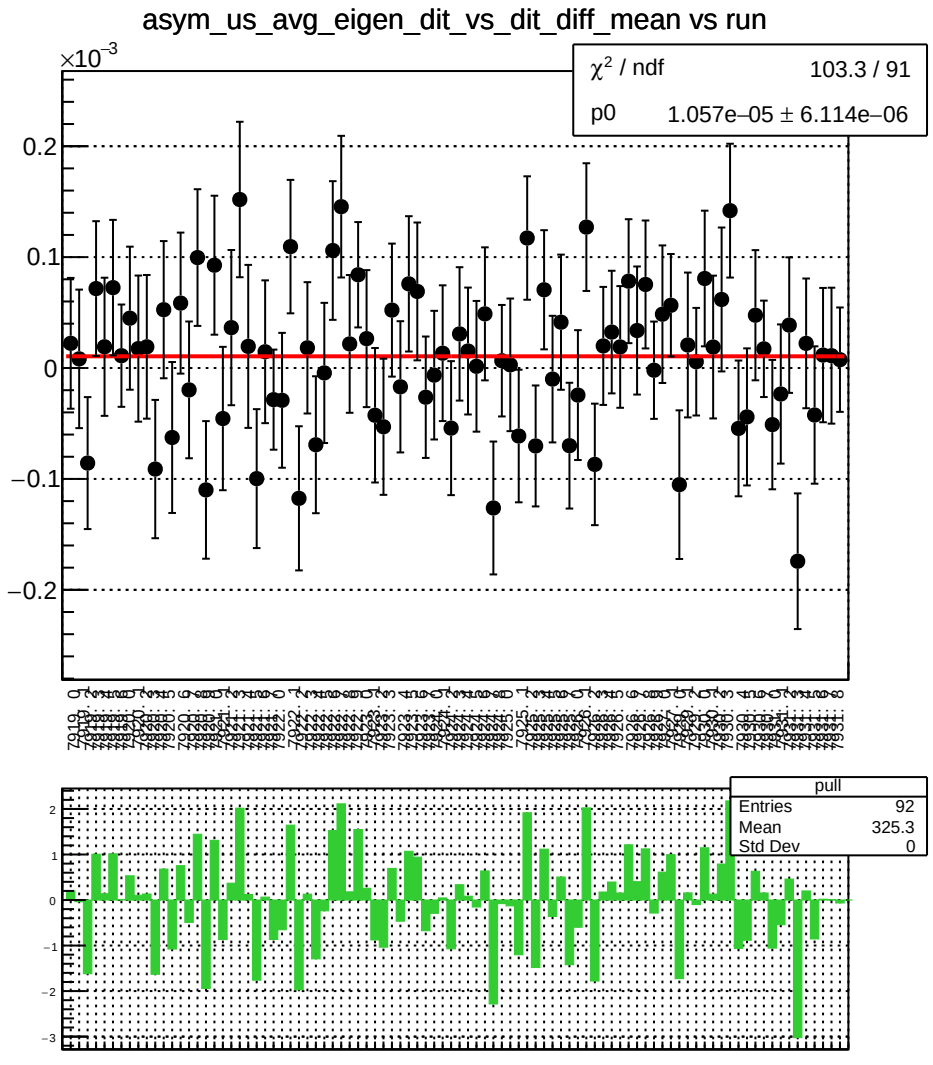

asym_us_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.334e+04 / 91
p0 66.99 ± 0.0508
110
100
90
80
70
60
50

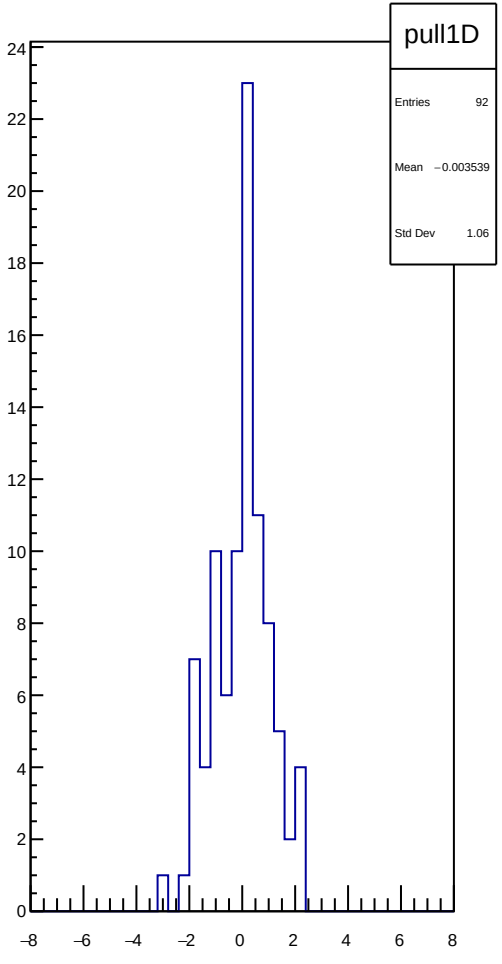

asym_us_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.28 / 91
p0 −0.04355 ± 0.07184
pull
Entries 92
Mean −45.34
Std Dev 0
pull1D
Entries 92
Mean 0.02739
Std Dev 0.9568

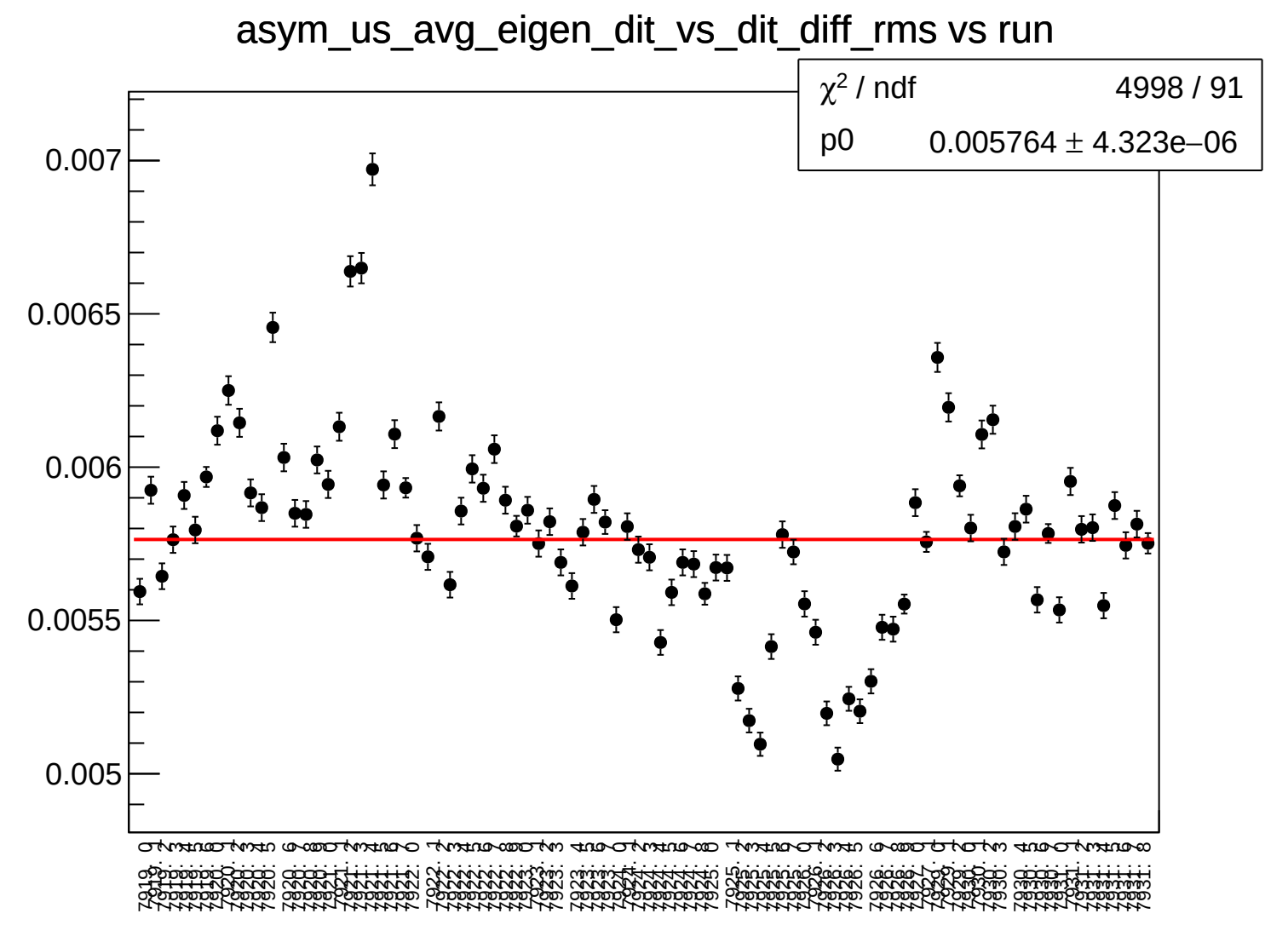

asym_us_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.334e+04 / 91
p0 66.99 ± 0.0508
110
100
90
80
70
60
50

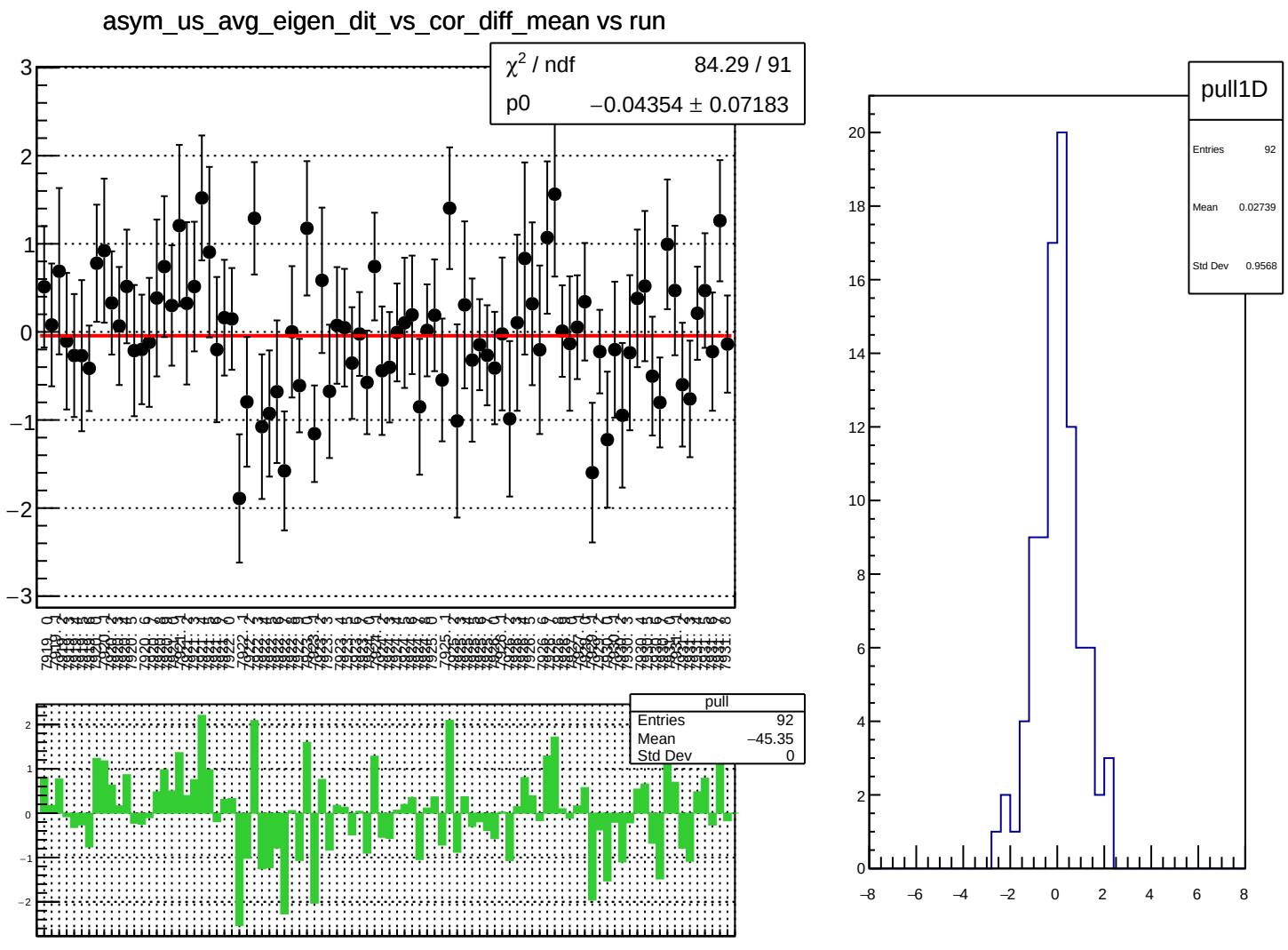

asym_us_avg_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 87.95 / 91
p0 −0.05323 ± 0.07835
pull
Entries 92
Mean −50.81
Std Dev 0
pull1D
Entries 92
Mean 0.03181
Std Dev 0.9772

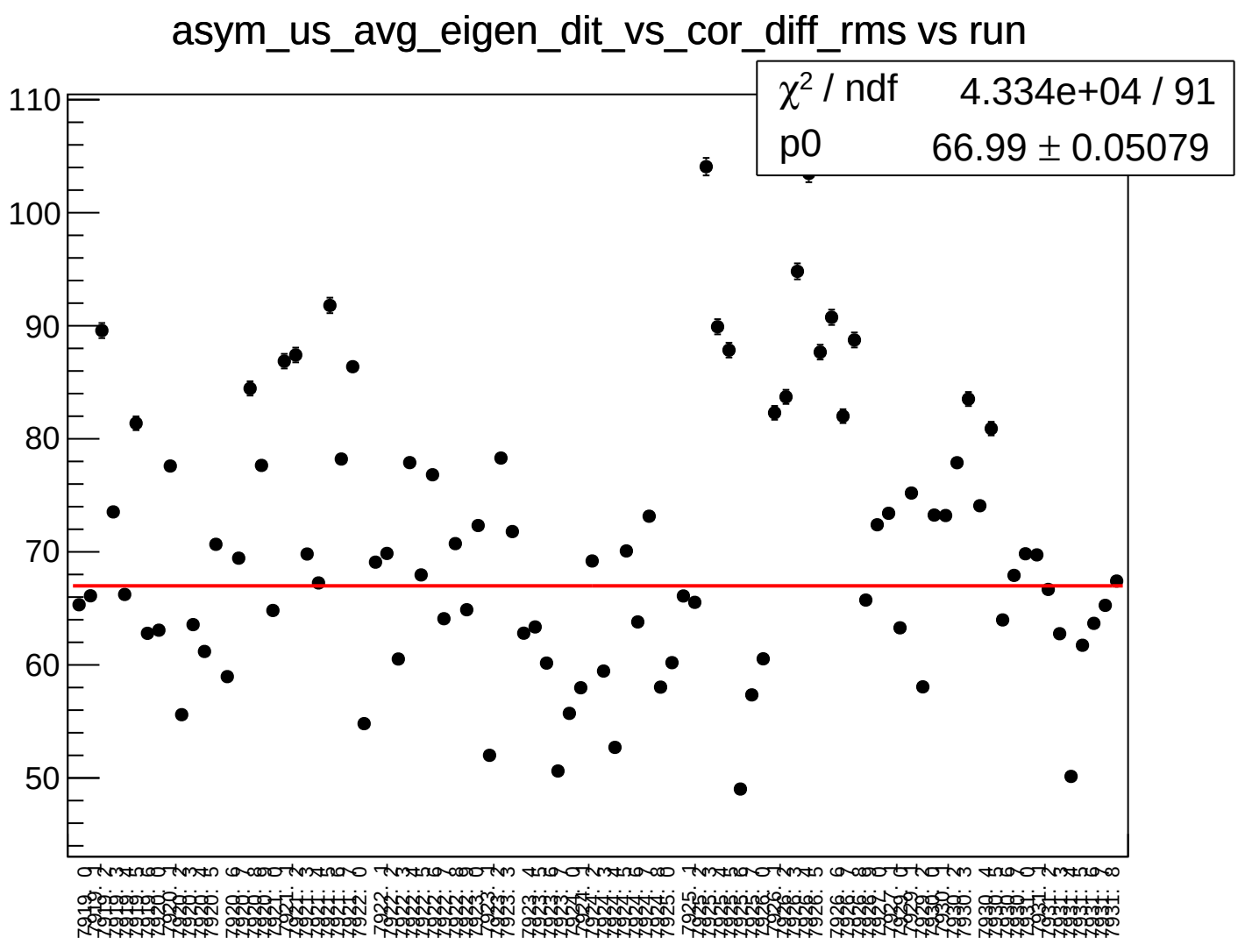

asym_us_avg_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 3.377e+04 / 91
p0 73.27 ± 0.0554
110
100
90
80
70
60
50

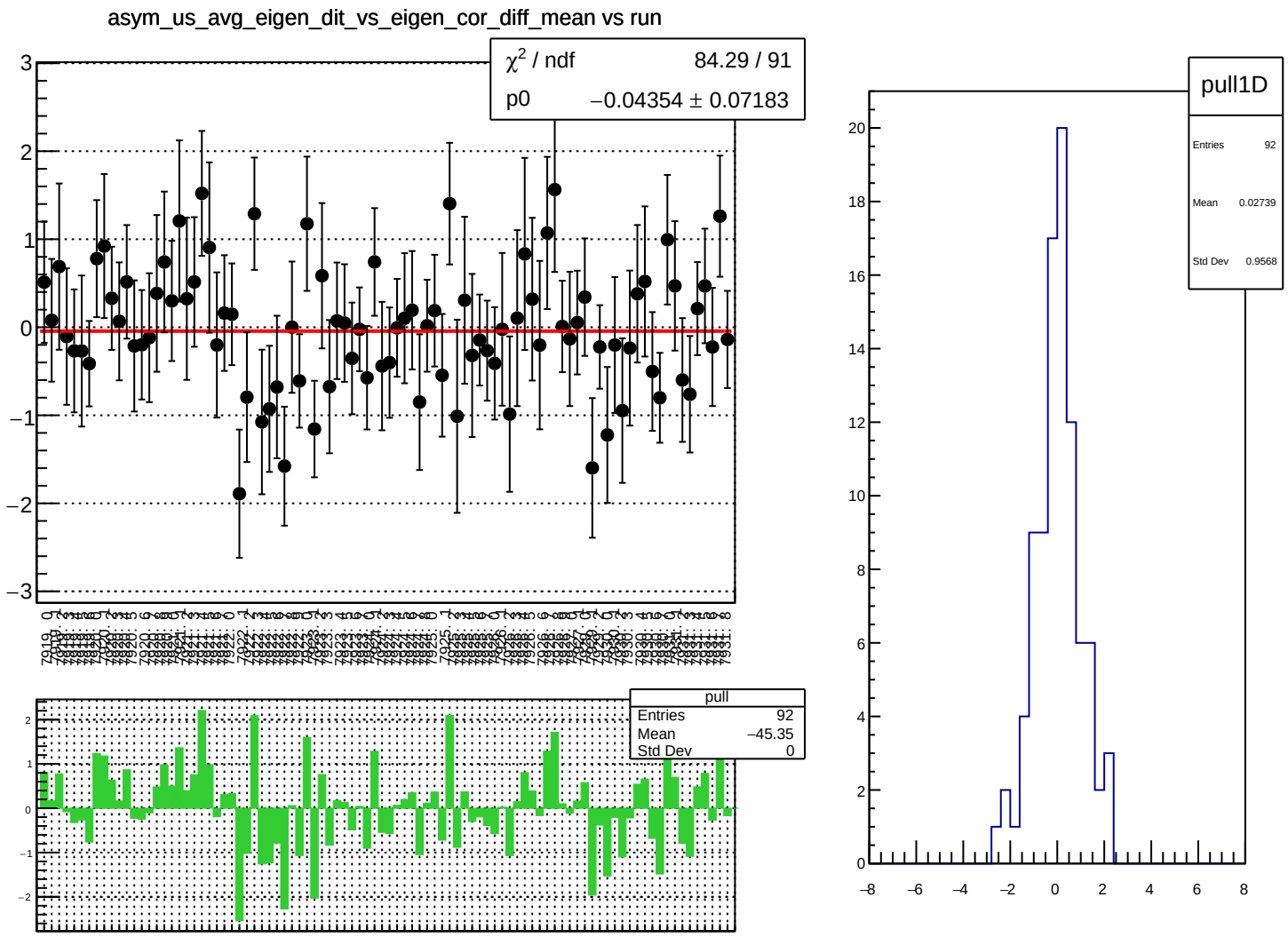

asym_us_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 103.3 / 91
p0 1.057e−05 ± 6.114e−06
pull
Entries 92
Mean 325.3
Std Dev 0

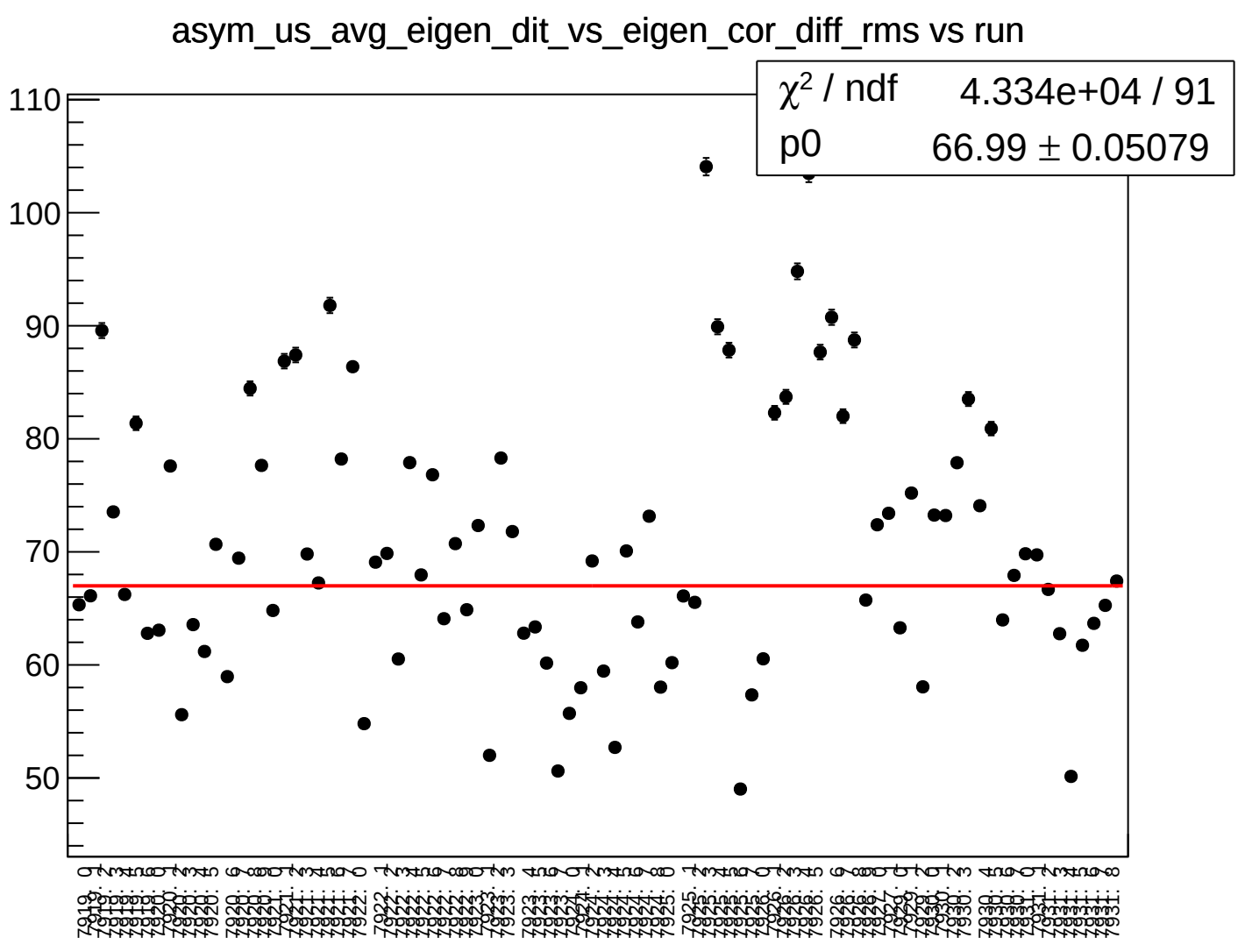

pull1D
Entries 92
Mean −0.003539
Std Dev 1.06

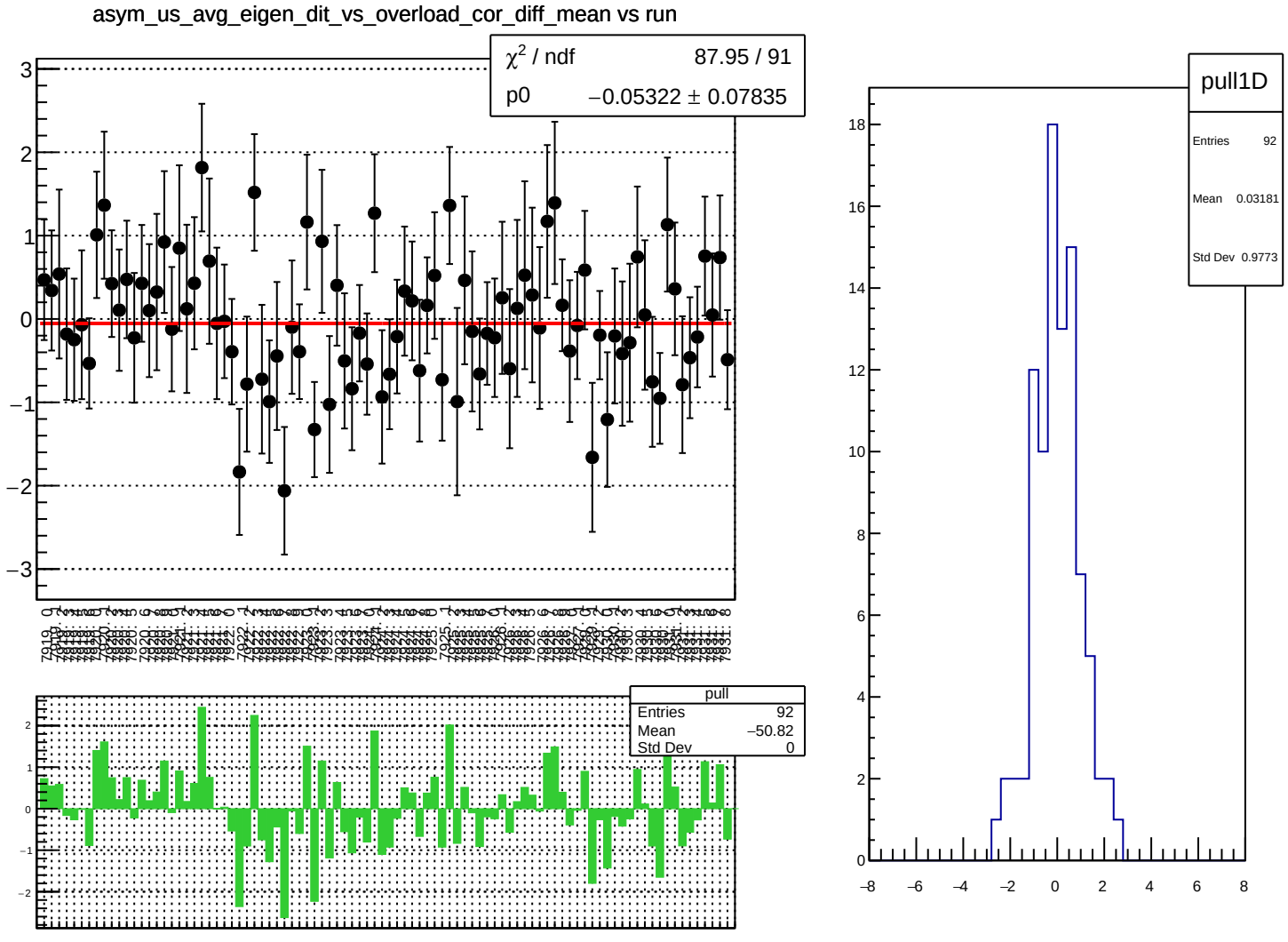

asym_us_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4998 / 91
p0 0.005764 ± 4.323e−06
0.007
0.0065
0.006
0.0055
0.005

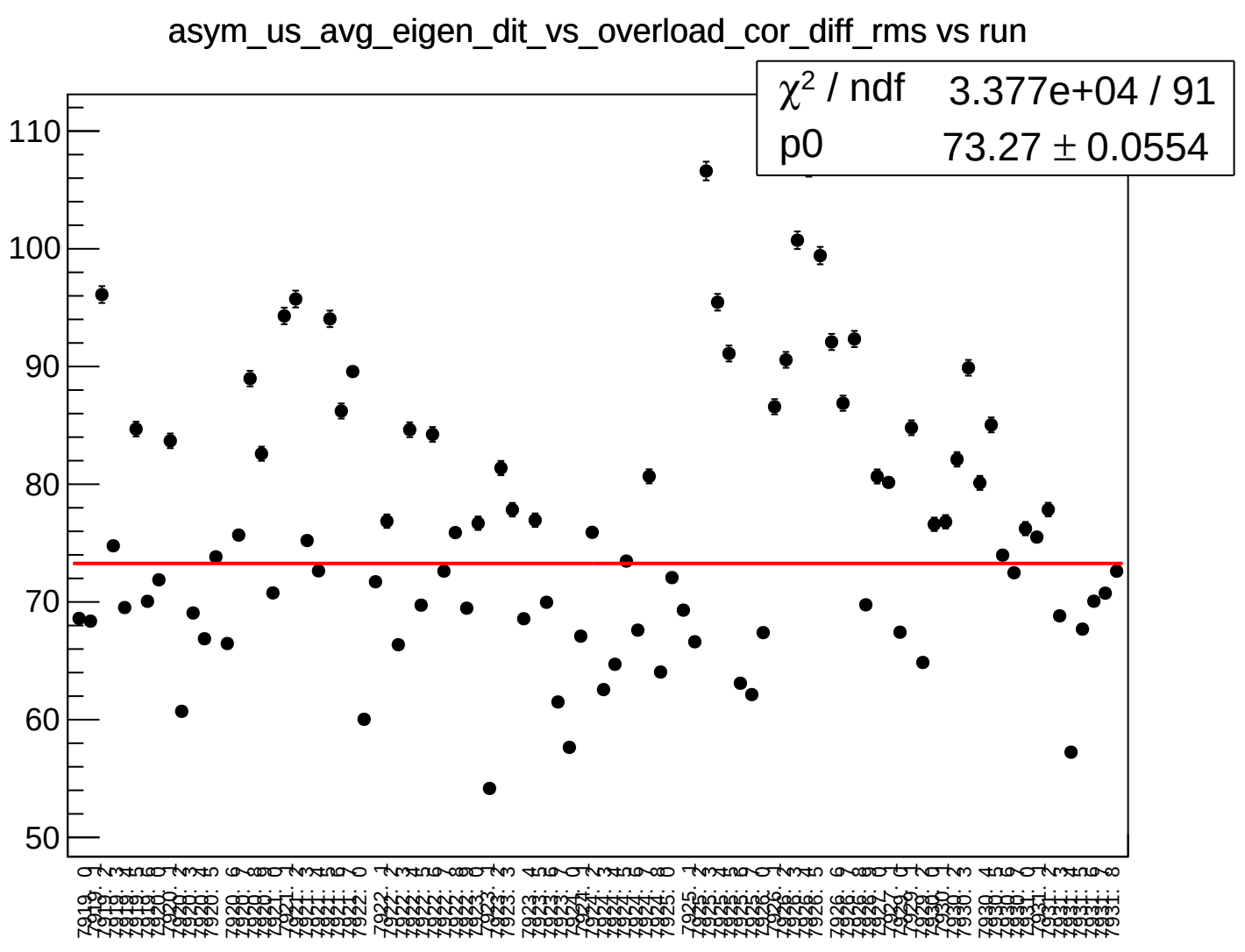

asym_us_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.29 / 91
p0 −0.04354 ± 0.07183
pull
Entries 92
Mean −45.35
Std Dev 0
pull1D
Entries 92
Mean 0.02739
Std Dev 0.9568

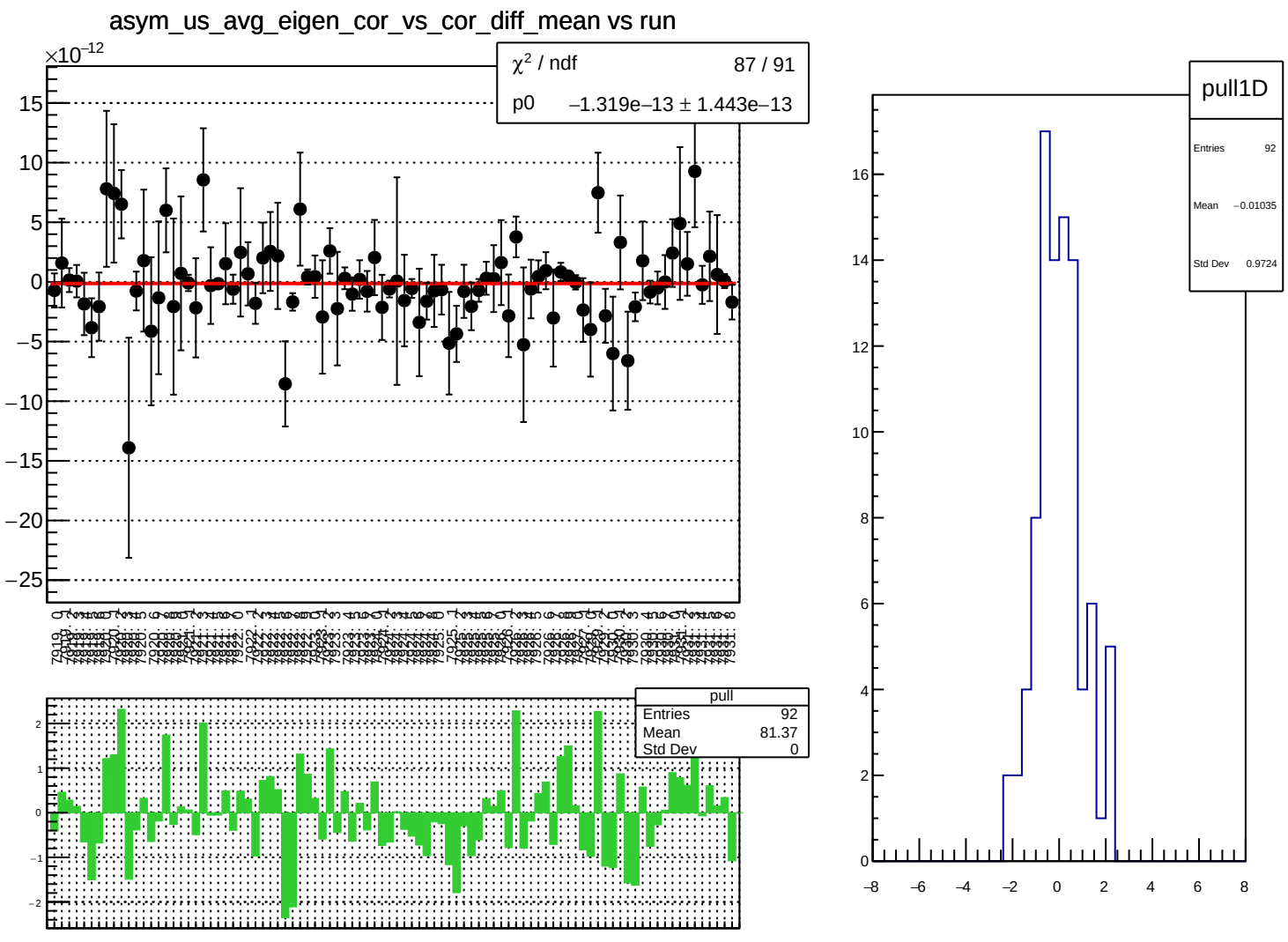

asym_us_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 4.334e+04 / 91
p0 66.99 ± 0.05079
110
100
90
80
70
60
50

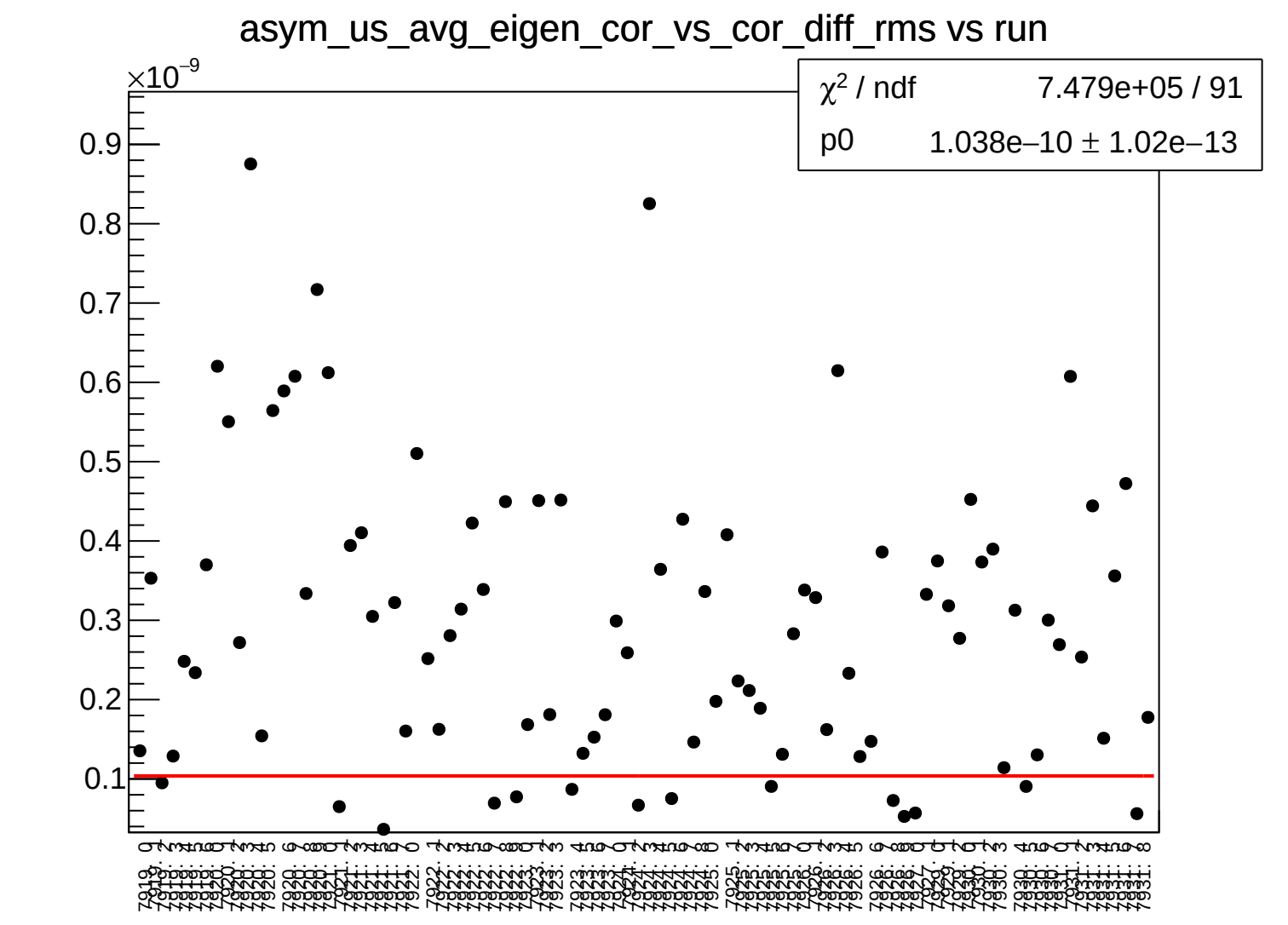

asym_us_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.29 / 91
p0 −0.04354 ± 0.07183
pull
Entries 92
Mean −45.35
Std Dev 0
pull1D
Entries 92
Mean 0.02739
Std Dev 0.9568

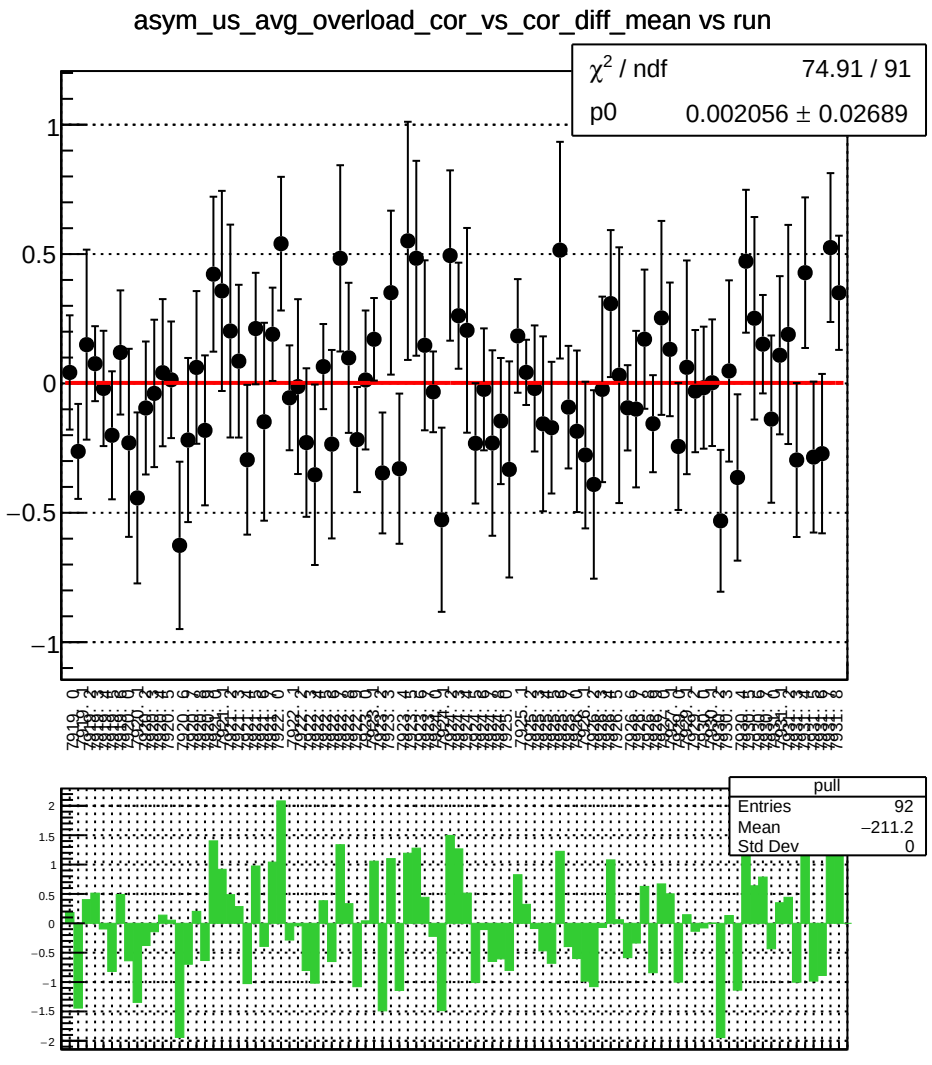

asym_us_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.334e+04 / 91
p0 66.99 ± 0.05079
110
100
90
80
70
60
50

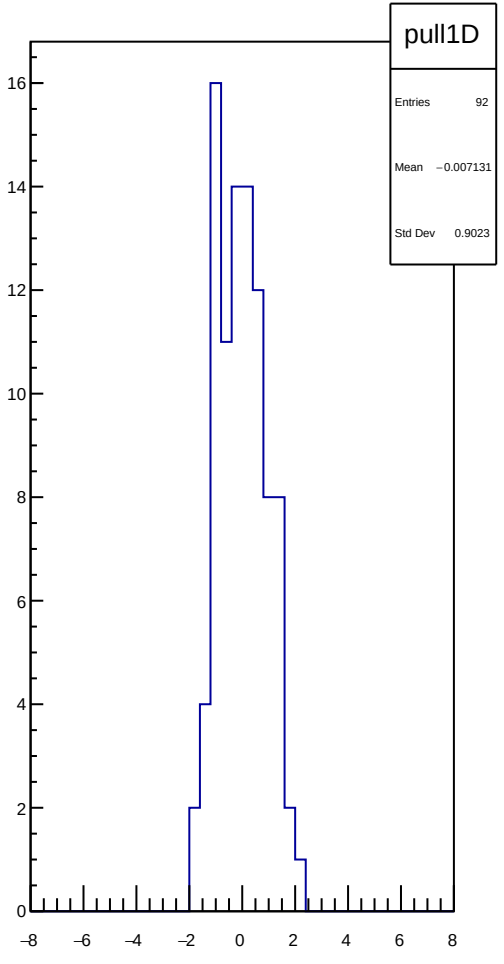

asym_us_avg_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 87.95 / 91
p0 −0.05322 ± 0.07835
pull
Entries 92
Mean −50.82
Std Dev 0
pull1D
Entries 92
Mean 0.03181
Std Dev 0.9773

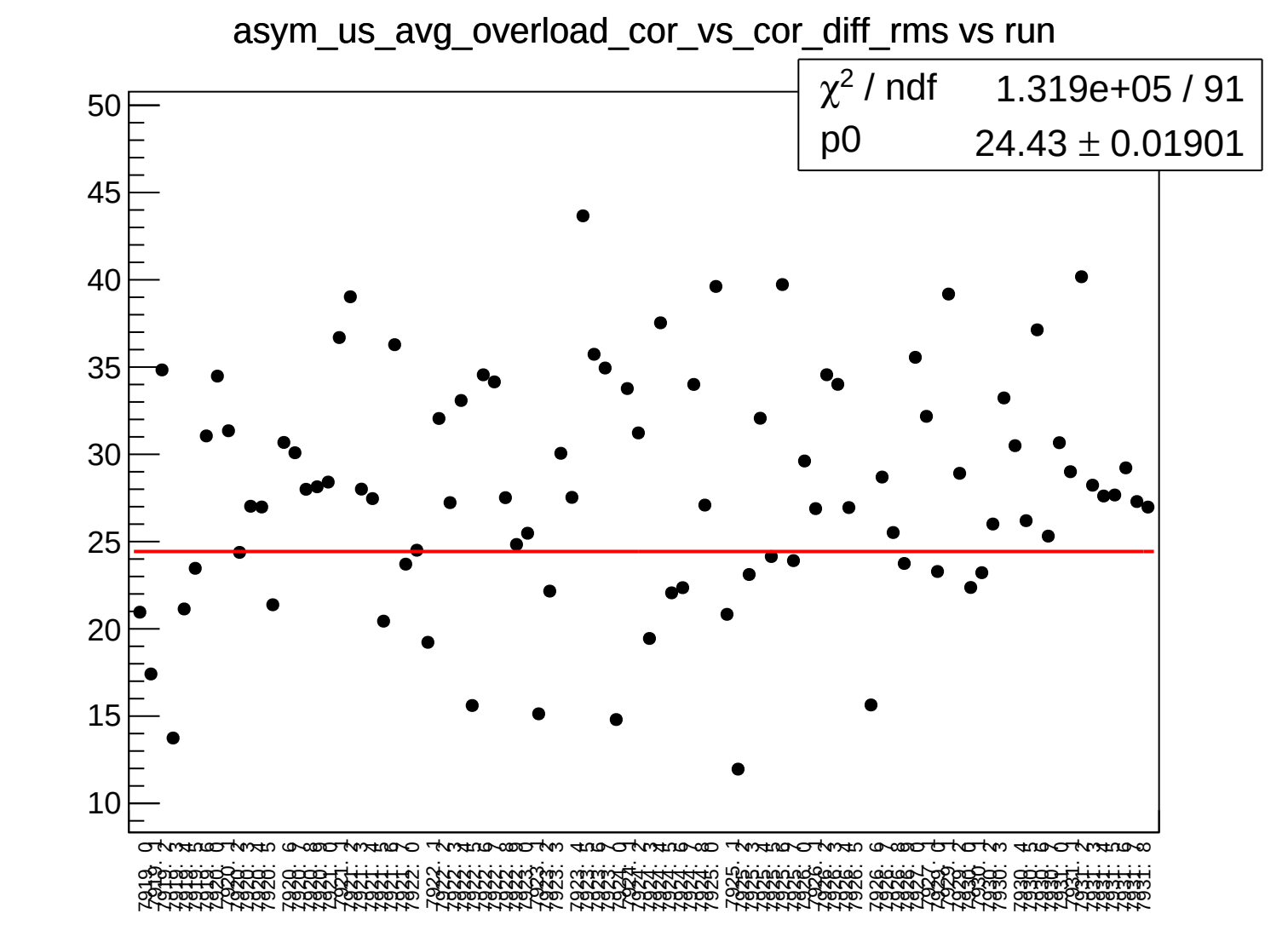

asym_us_avg_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 3.377e+04 / 91
p0 73.27 ± 0.0554
110
100
90
80
70
60
50

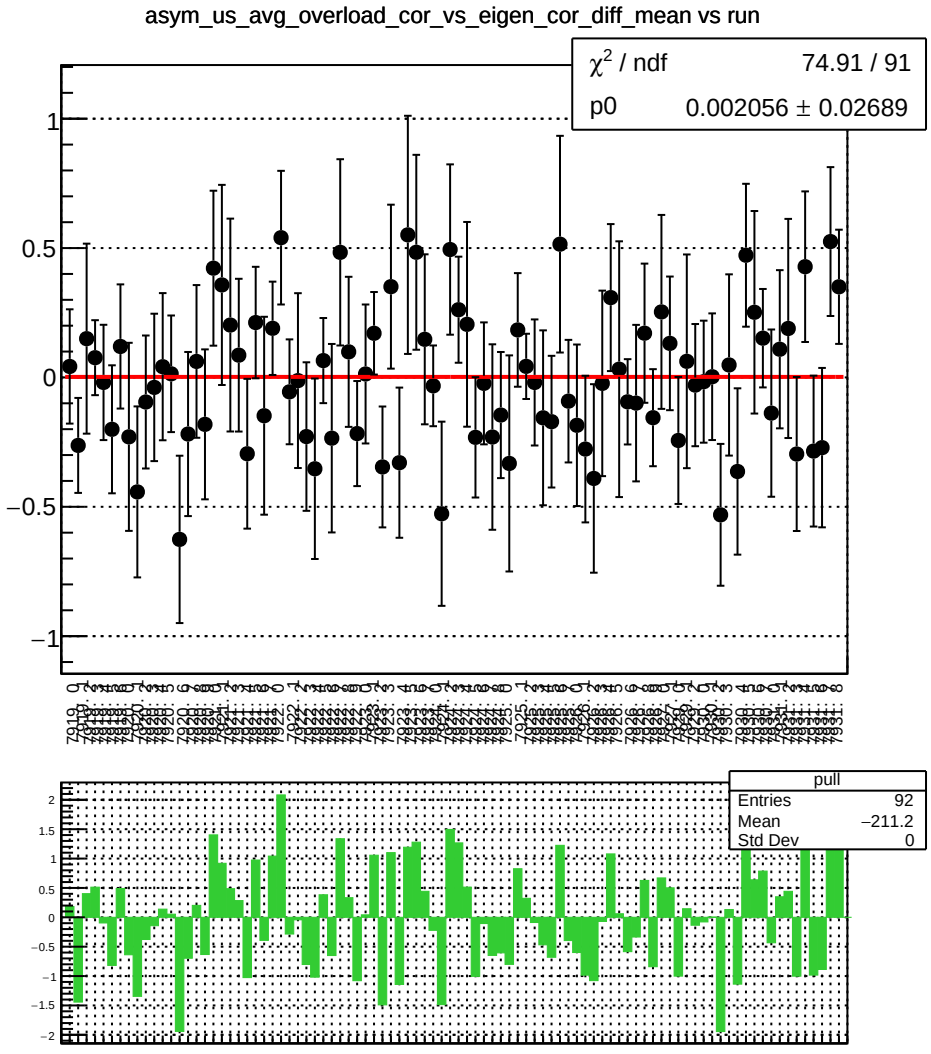

asym_us_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87 / 91
p0 −1.319e−13 ± 1.443e−13
pull
Entries 92
Mean 81.37
Std Dev 0
pull1D
Entries 92
Mean −0.01035
Std Dev 0.9724

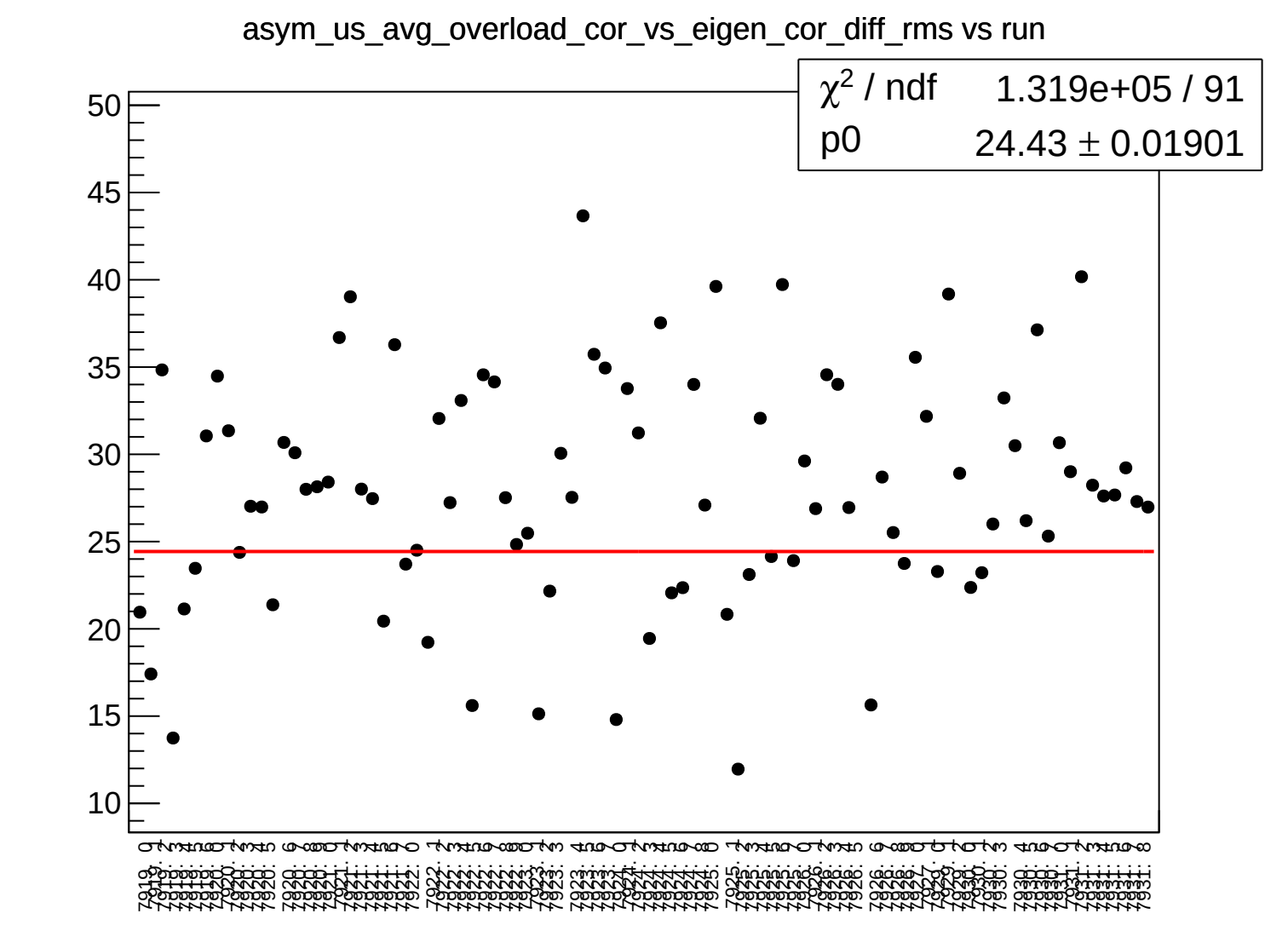

asym_us_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.479e+05 / 91
p0 1.038e−10 ± 1.02e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

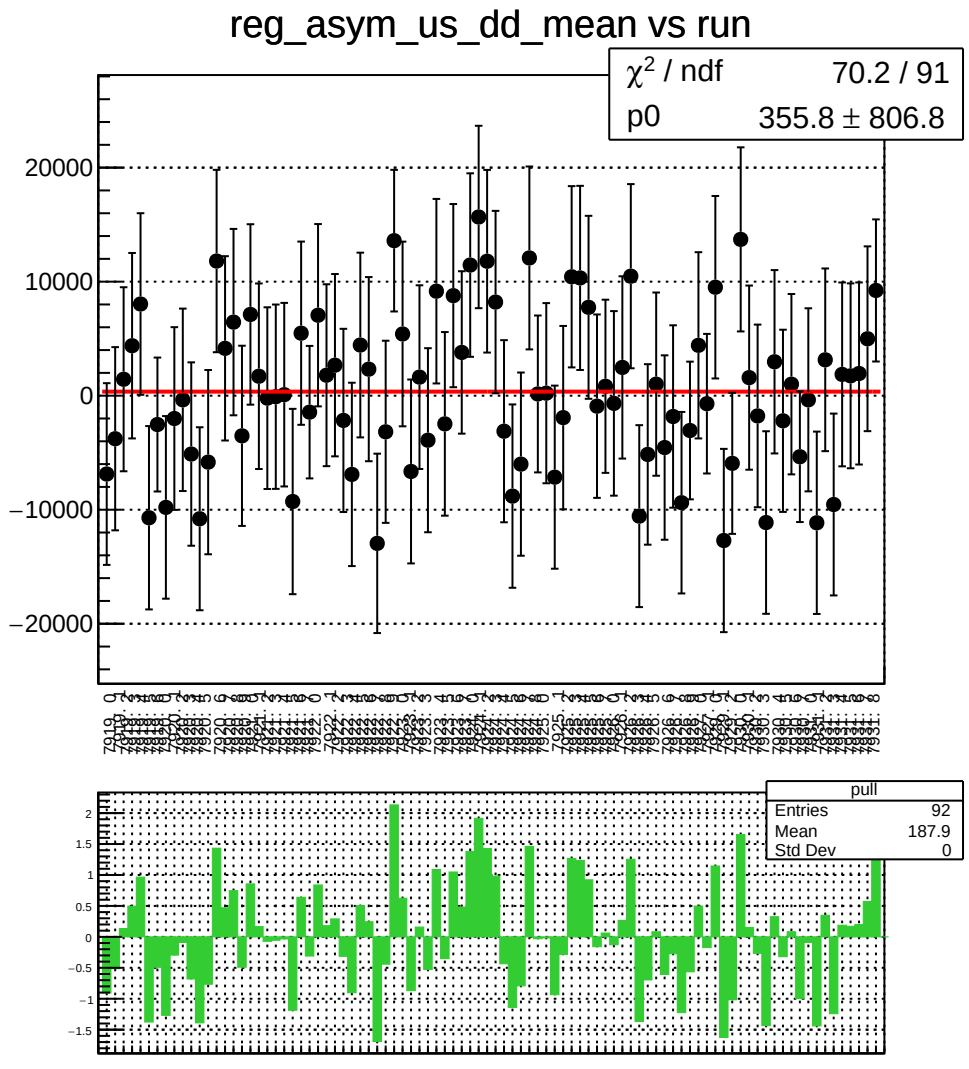

asym_us_avg_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 74.91 / 91
p0 0.002056 ± 0.02689
pull
Entries 92
Mean −211.2
Std Dev 0

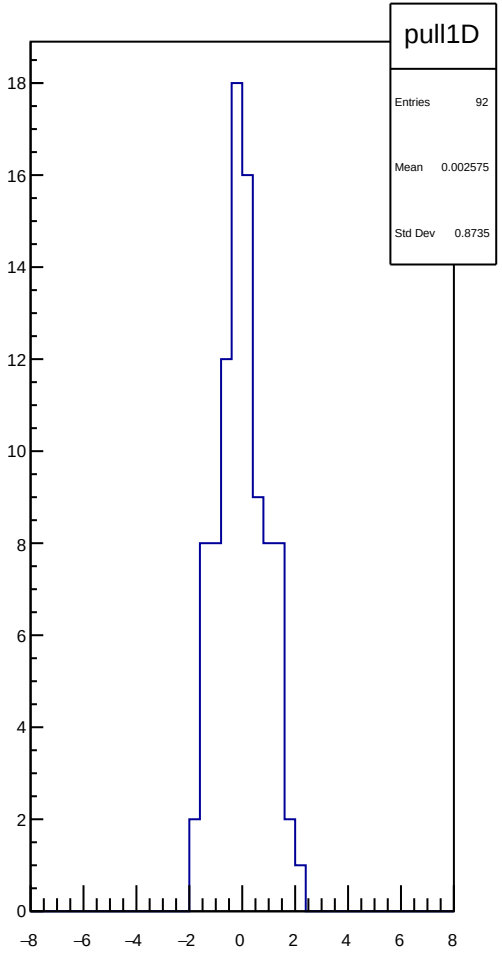

pull1D
Entries 92
Mean −0.007131
Std Dev 0.9023

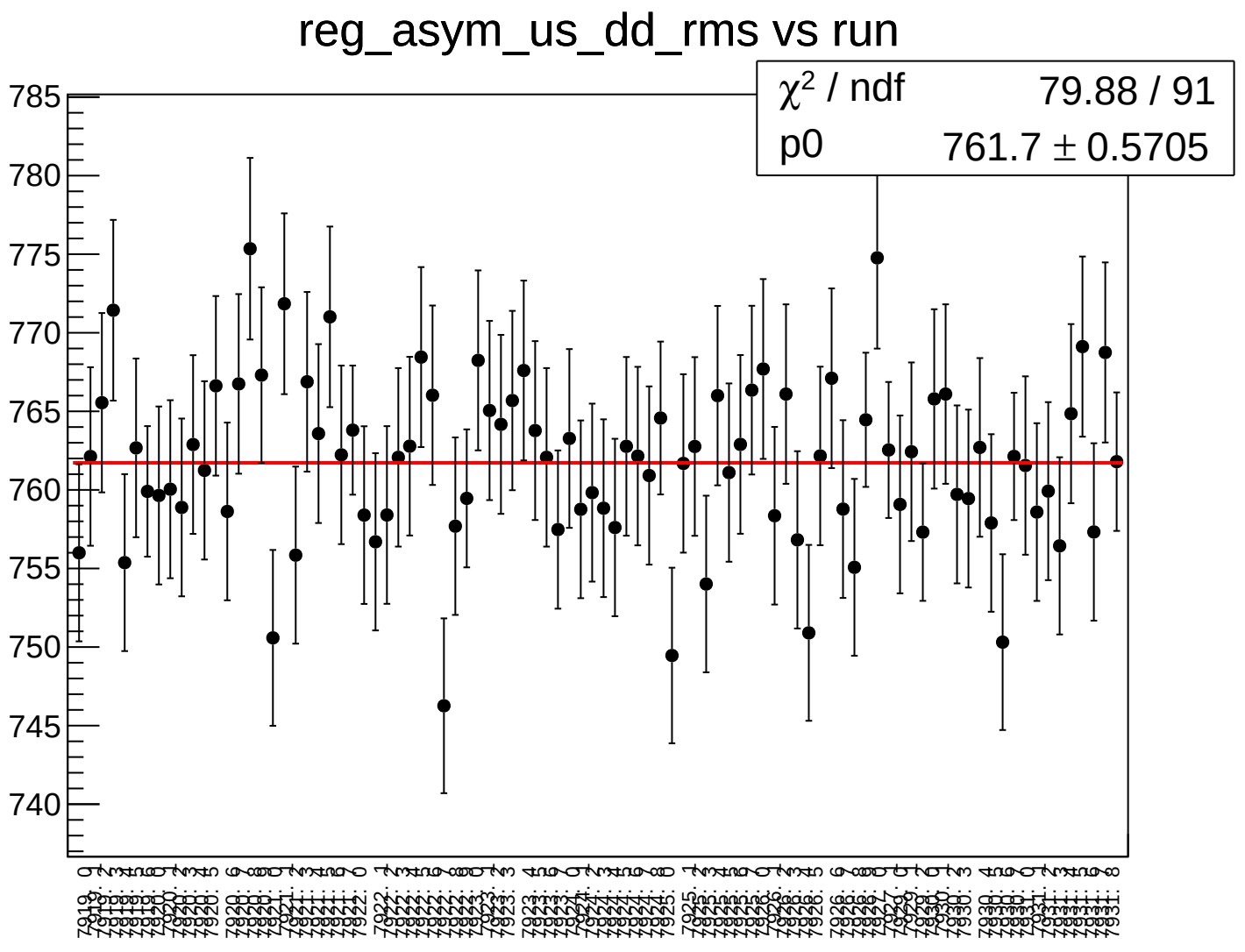

asym_us_avg_overload_cor_vs_cor_diff_rms vs run
χ^2 / ndf 1.319e+05 / 91
p0 24.43 ± 0.01901
50
45
40
35
30
25
20
15
10

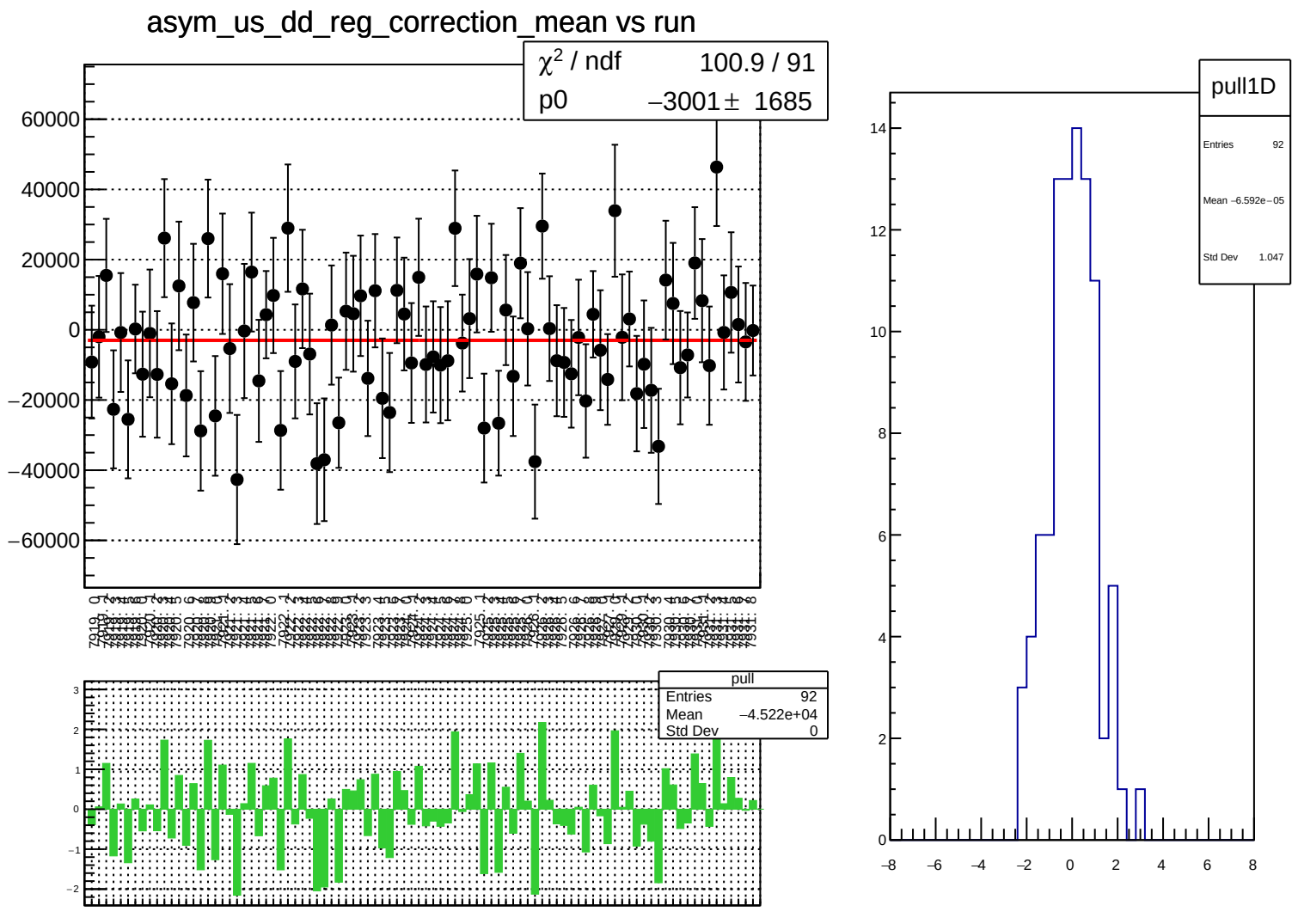

asym_us_avg_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.91 / 91
p0 0.002056 ± 0.02689
pull
Entries 92
Mean −211.2
Std Dev 0
pull1D
Entries 92
Mean −0.007131
Std Dev 0.9023

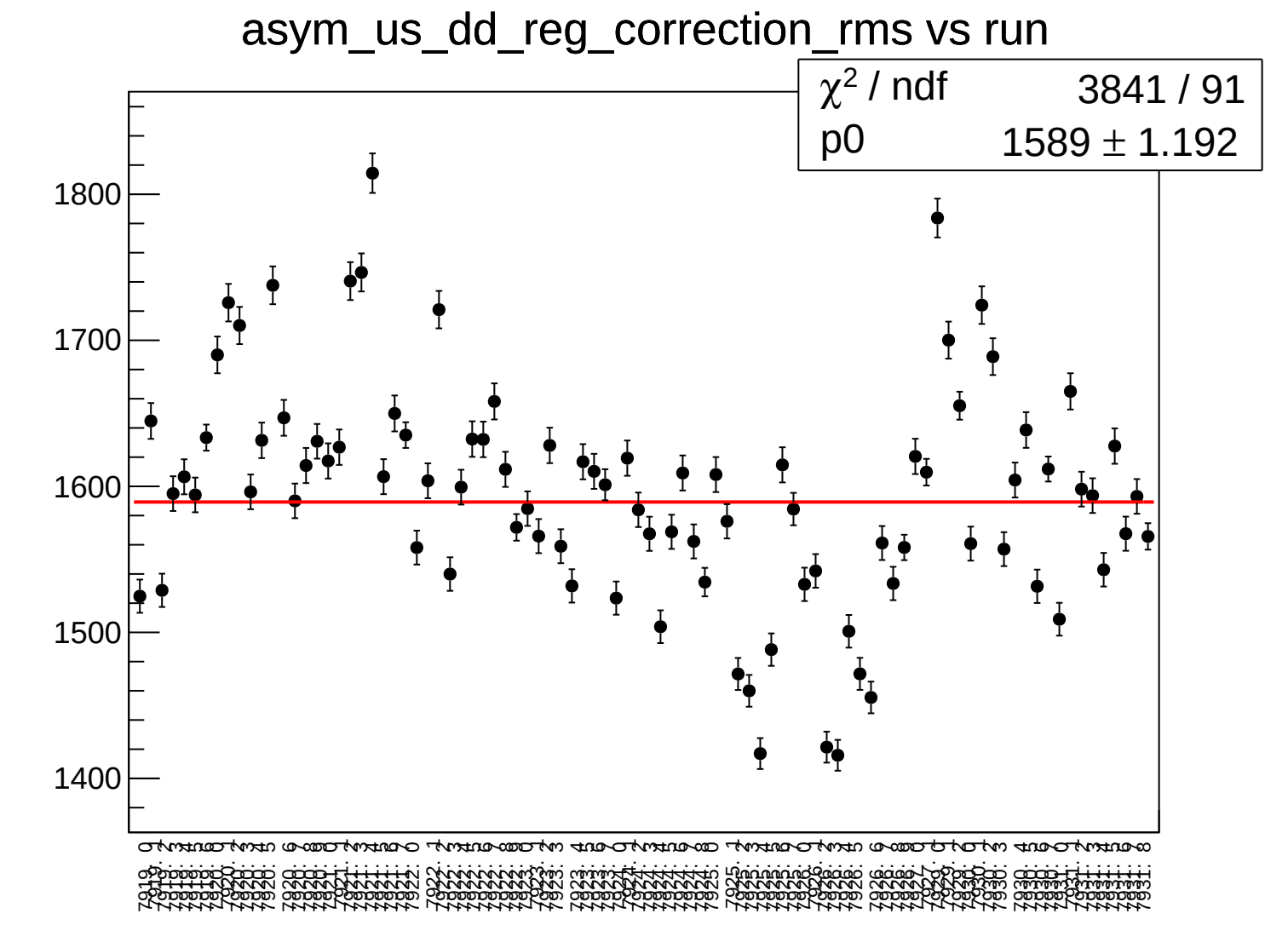

asym_us_avg_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.319e+05 / 91
p0 24.43 ± 0.01901
50
45
40
35
30
25
20
15
10

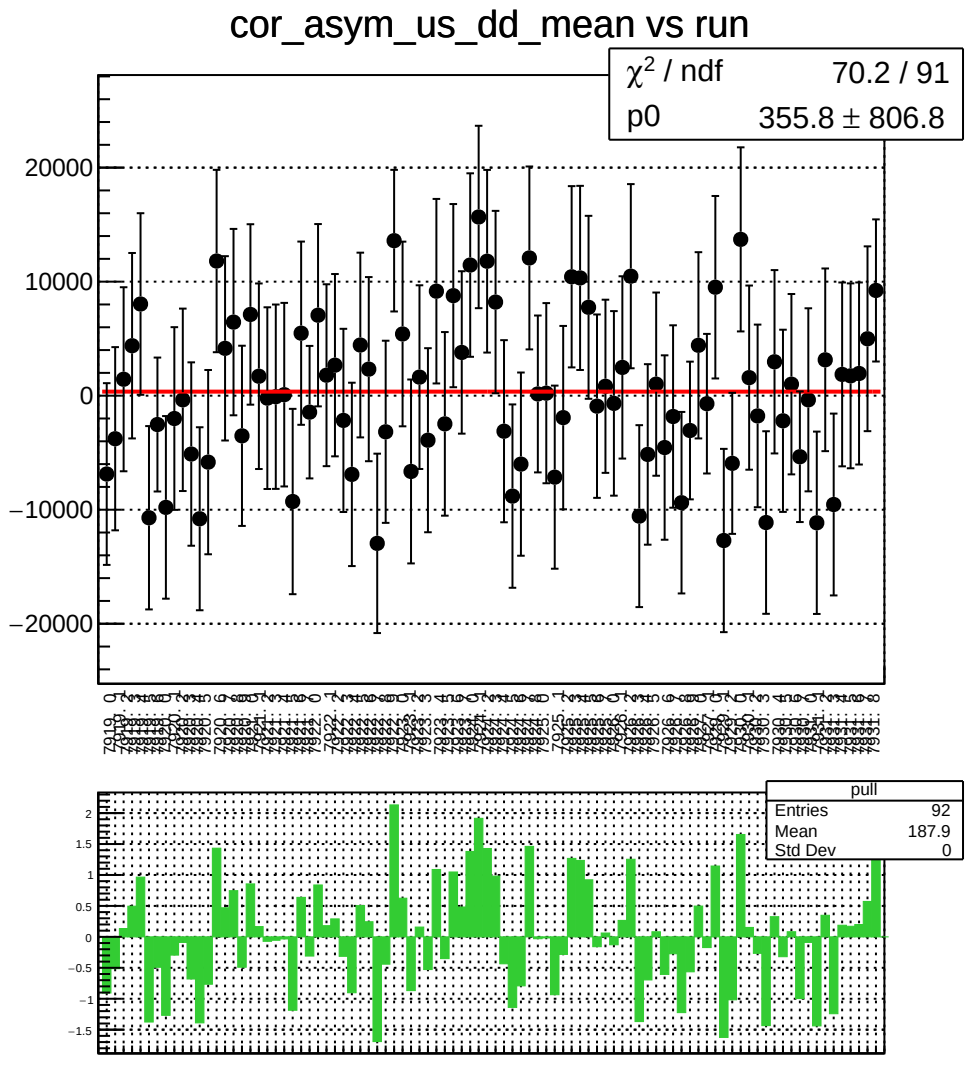

reg_asym_us_dd_mean vs run
χ^2 / ndf 70.2 / 91
p0 355.8 ± 806.8
20000
10000
0
−10000
−20000
pull
Entries 92
Mean 187.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

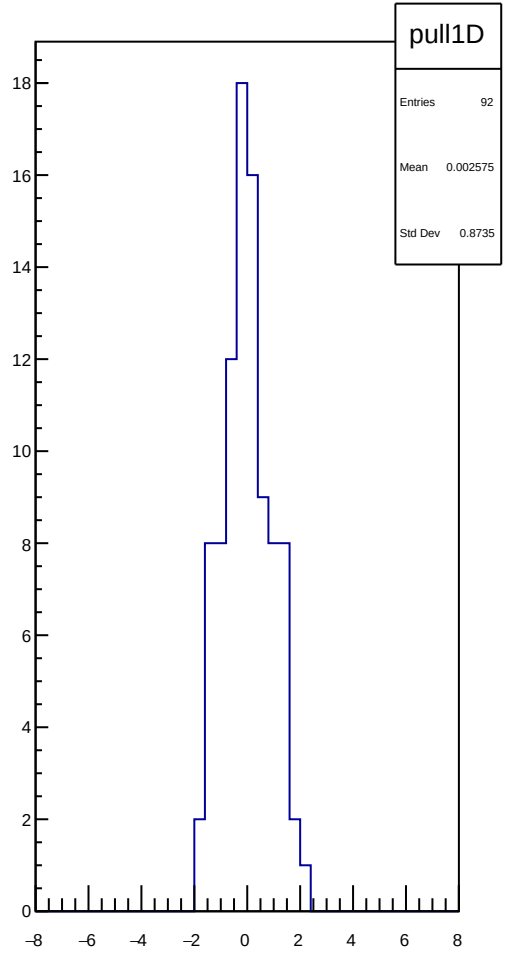

pull1D
Entries 92
Mean 0.002575
Std Dev 0.8735
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

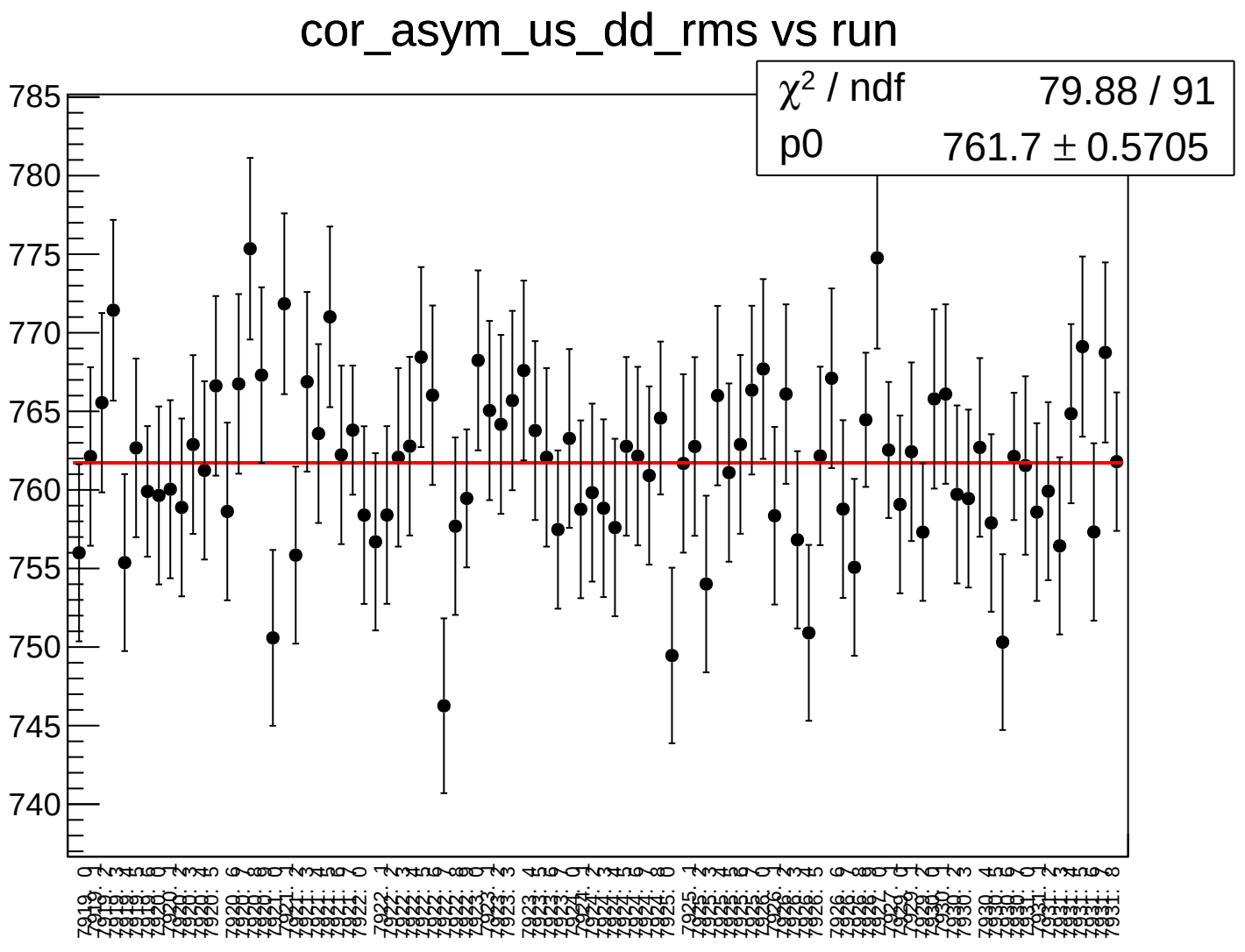

reg_asym_us_dd_rms vs run
χ² / ndf 79.88 / 91
p0 761.7 ± 0.5705
785
780
775
770
765
760
755
750
745
740

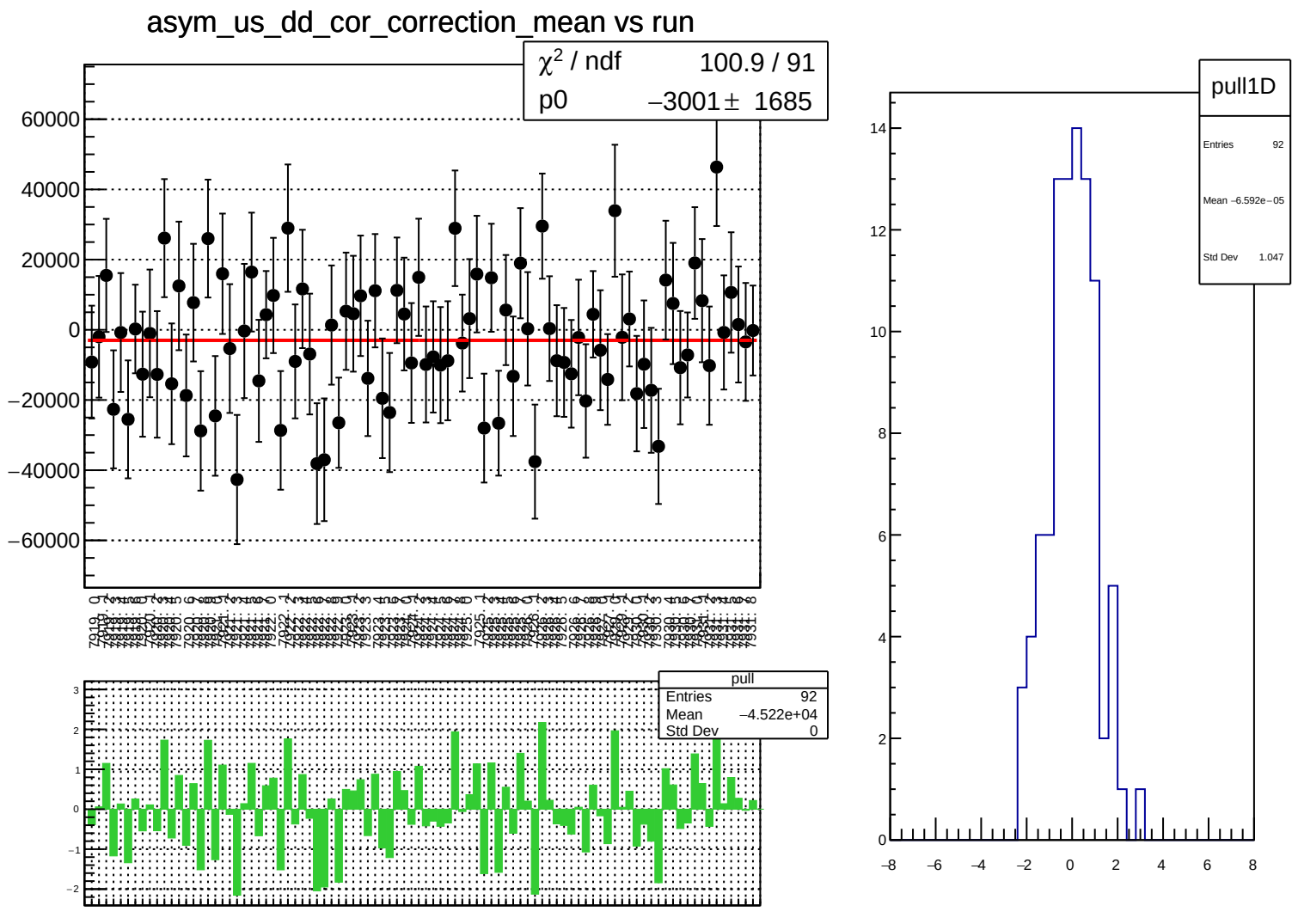

asym_us_dd_reg_correction_mean vs run
χ² / ndf 100.9 / 91
p0 −3001 ± 1685
pull
Entries 92
Mean −4.522e+04
Std Dev 0
pull1D
Entries 92
Mean −6.592e−05
Std Dev 1.047

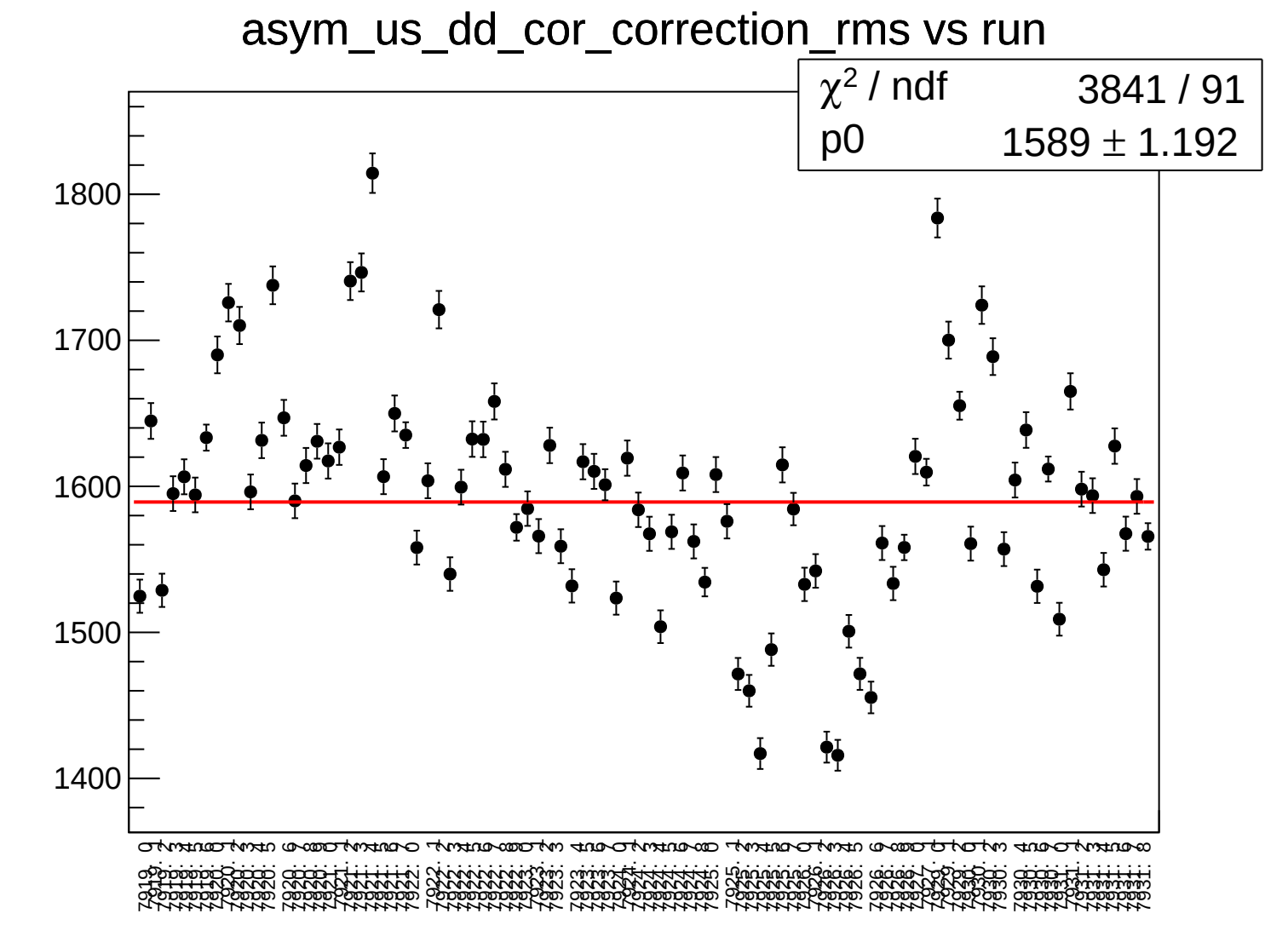

asym_us_dd_reg_correction_rms vs run
χ² / ndf 3841 / 91
p0 1589 ± 1.192
1800
1700
1600
1500
1400

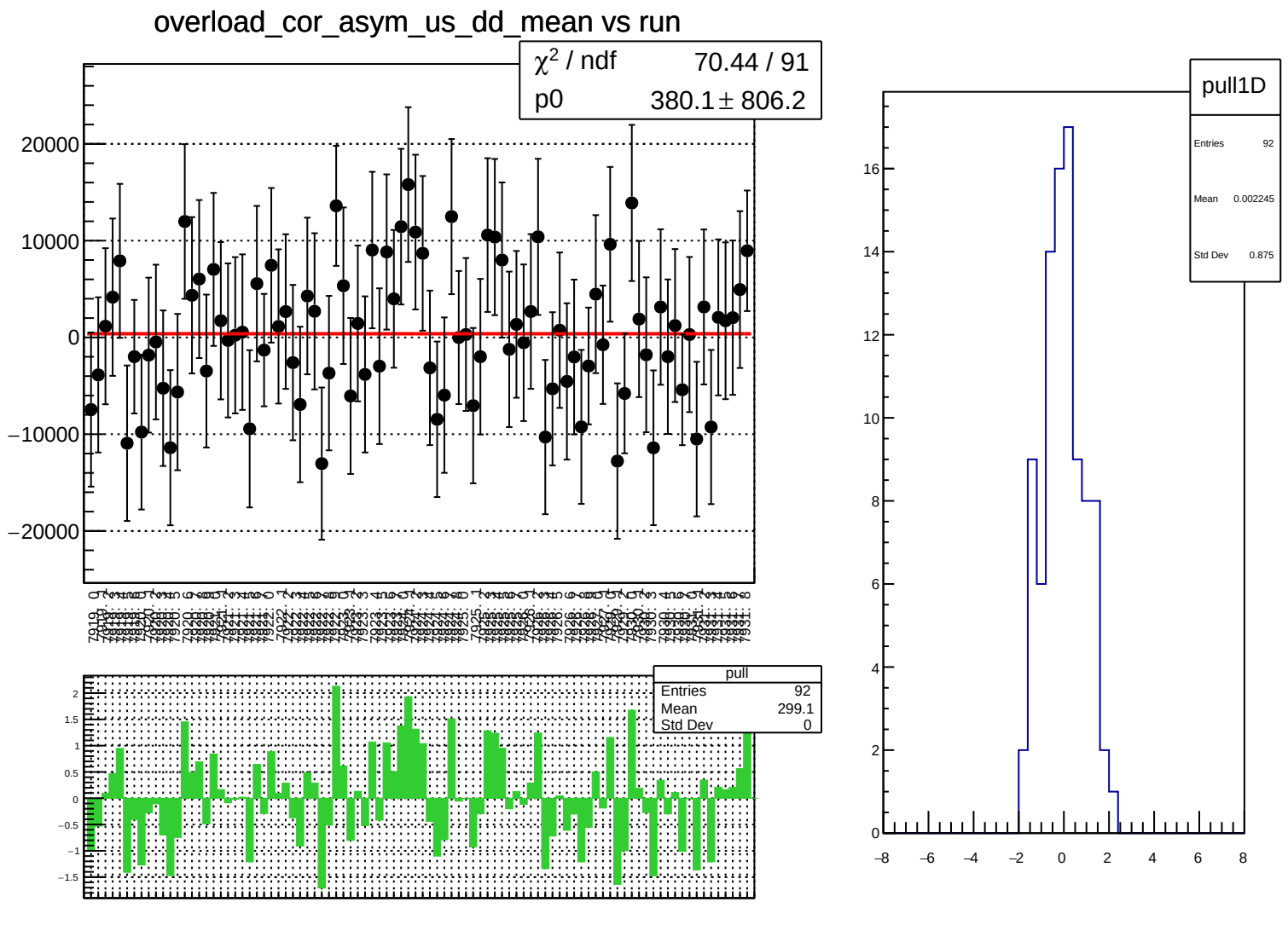

cor_asym_us_dd_mean vs run
χ² / ndf 70.2 / 91
p0 355.8 ± 806.8
20000
10000
0
−10000
−20000
pull
Entries 92
Mean 187.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

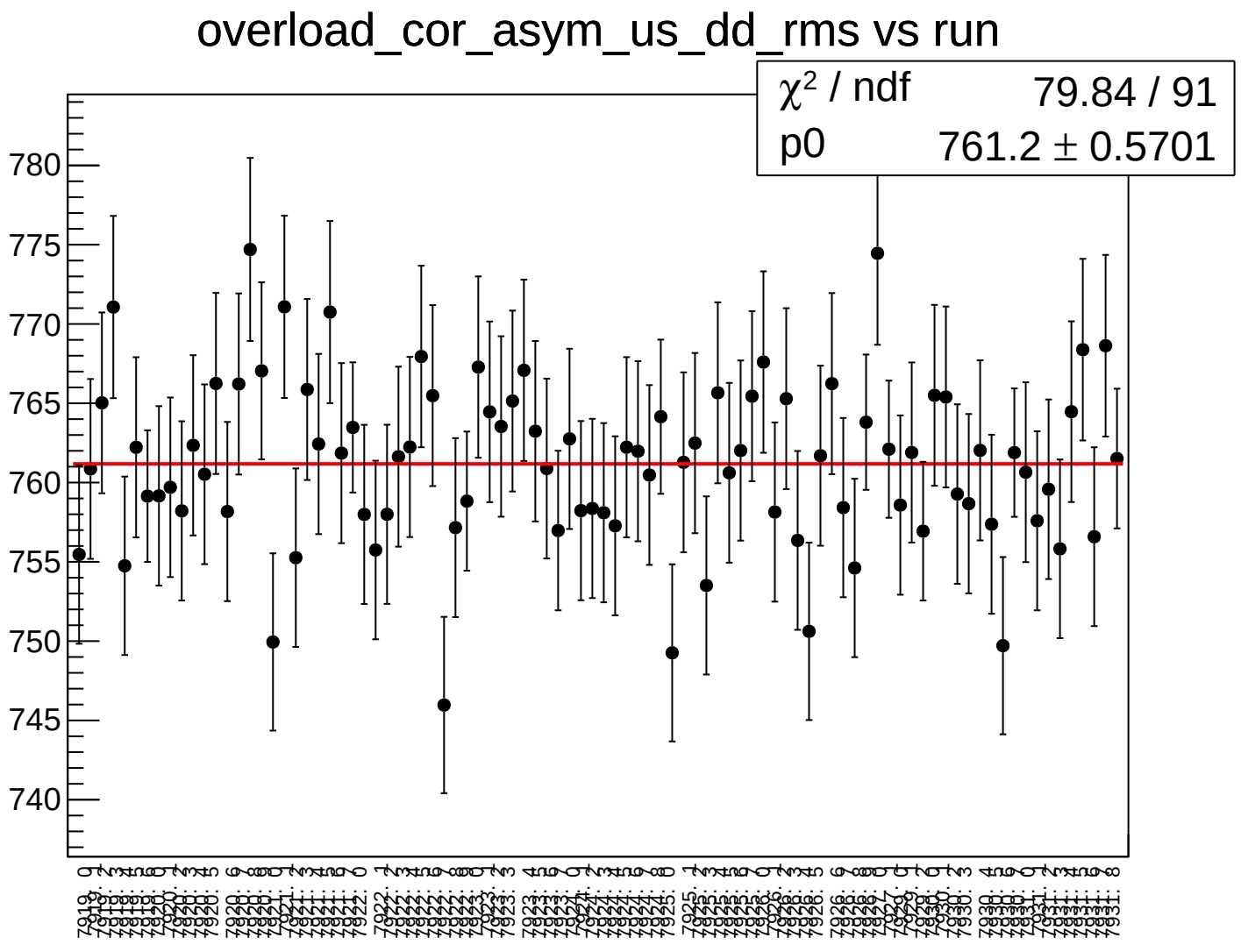

pull1D
Entries 92
Mean 0.002575
Std Dev 0.8735
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

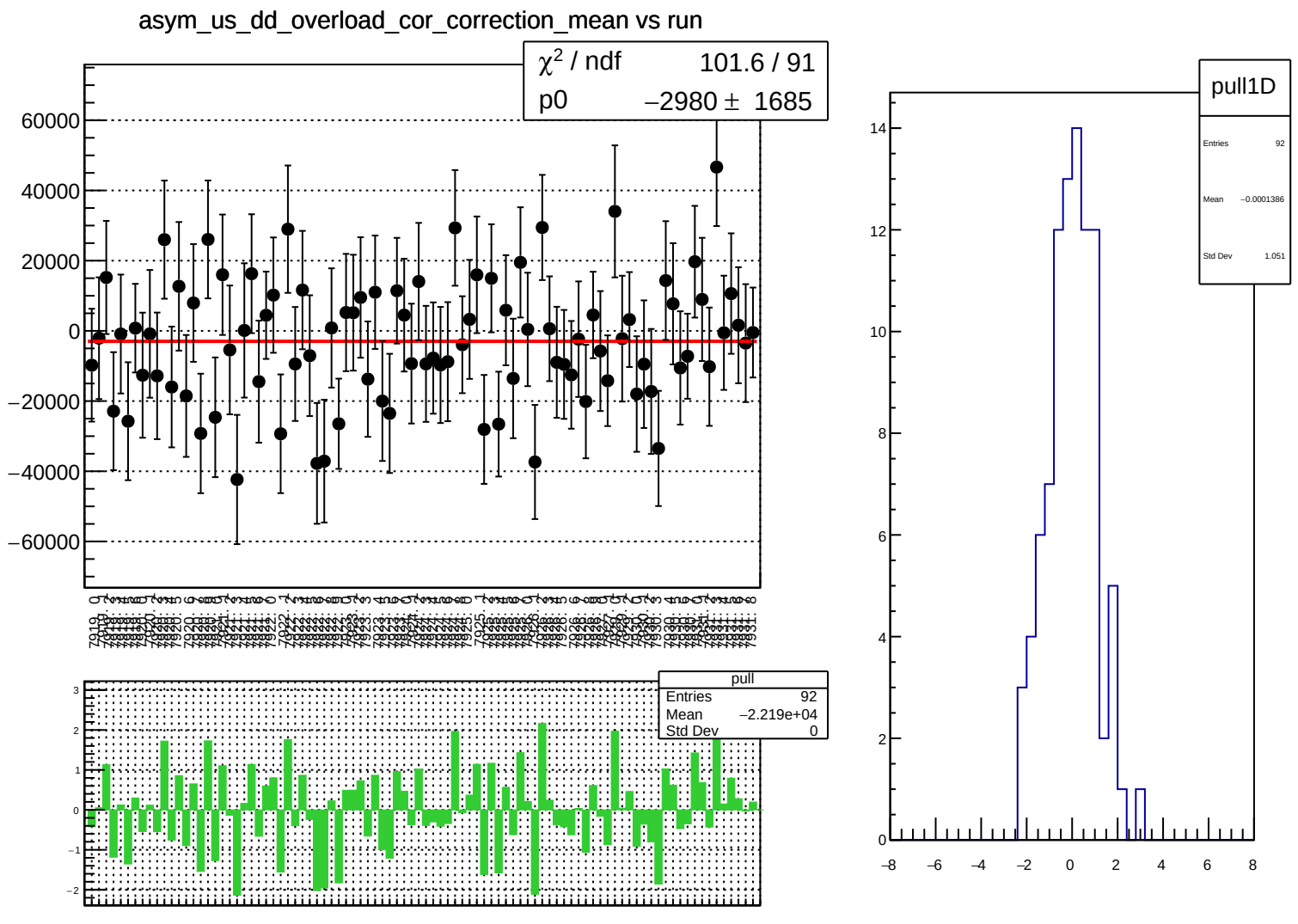

cor_asym_us_dd_rms vs run
χ² / ndf 79.88 / 91
p0 761.7 ± 0.5705
785
780
775
770
765
760
755
750
745
740

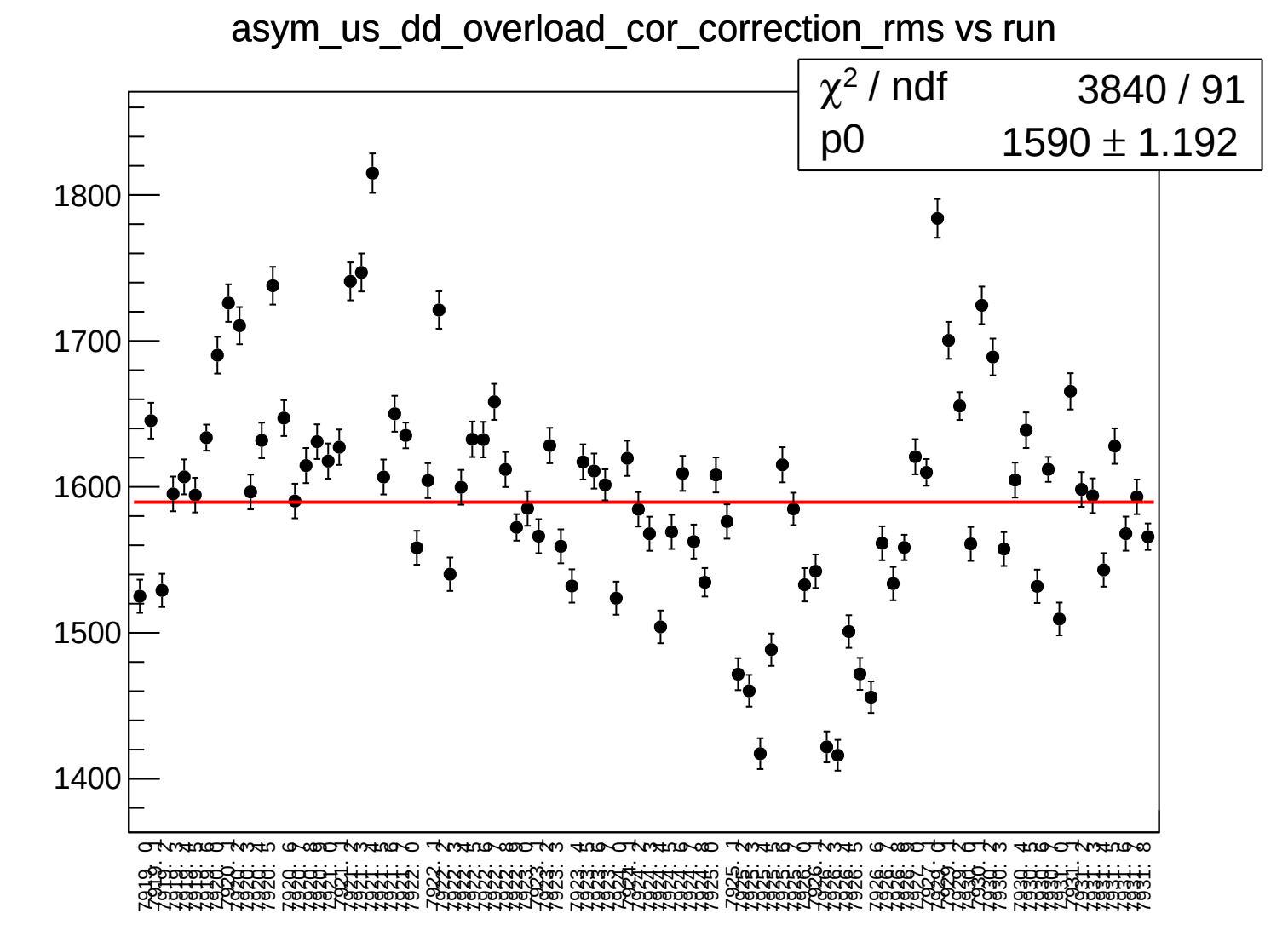

asym_us_dd_cor_correction_mean vs run
χ² / ndf 100.9 / 91
p0 −3001 ± 1685
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −4.522e+04
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean −6.592e−05
Std Dev 1.047
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

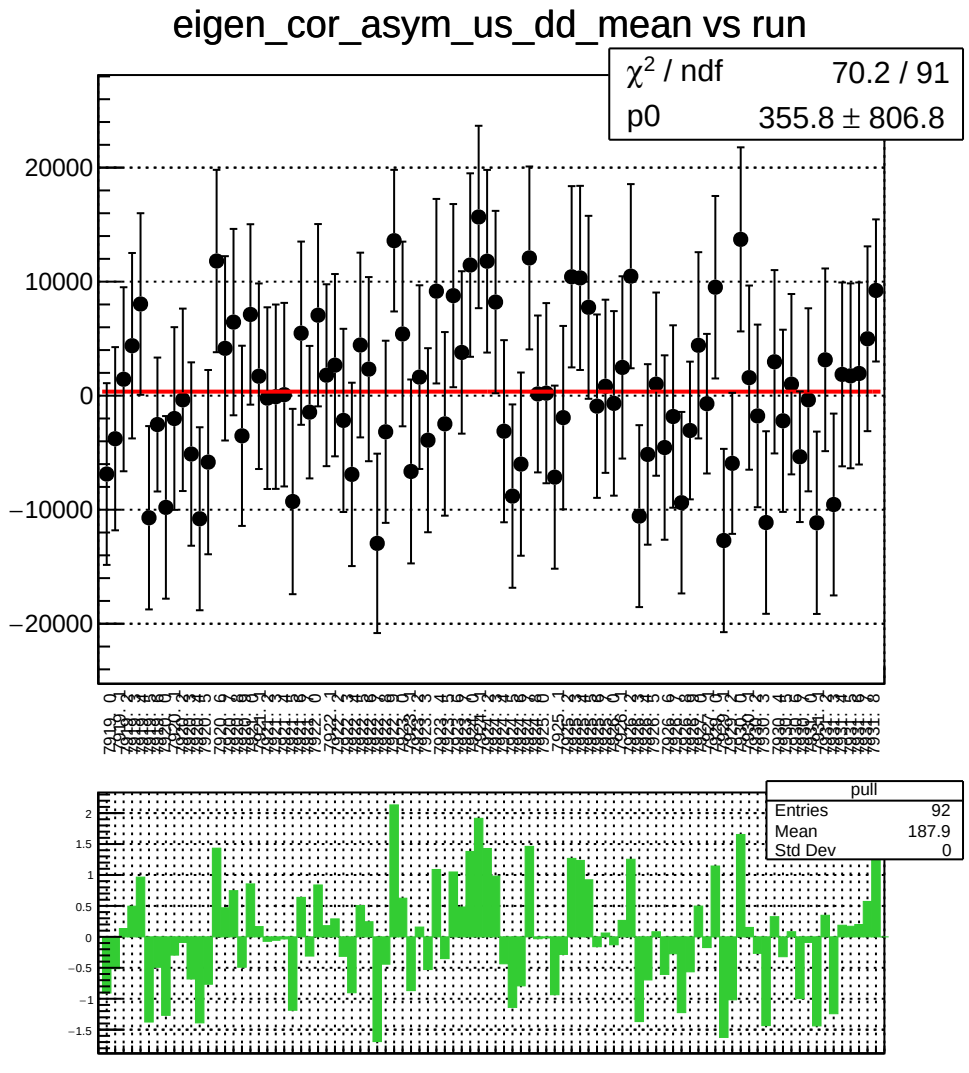

asym_us_dd_cor_correction_rms vs run
χ² / ndf 3841 / 91
p0 1589 ± 1.192
1800
1700
1600
1500
1400

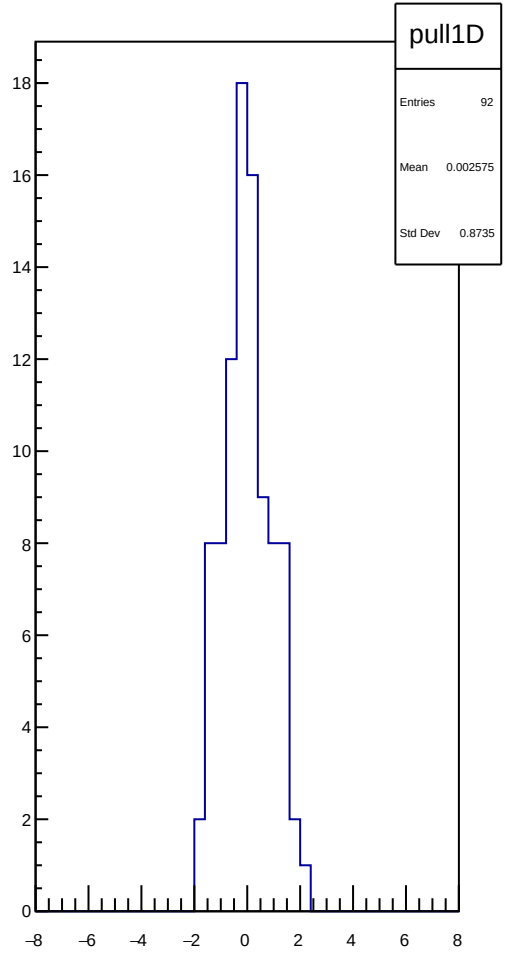

overload_cor_asym_us_dd_mean vs run
χ² / ndf 70.44 / 91
p0 380.1 ± 806.2
20000
10000
0
−10000
−20000
pull
Entries 92
Mean 299.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 92
Mean 0.002245
Std Dev 0.875
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

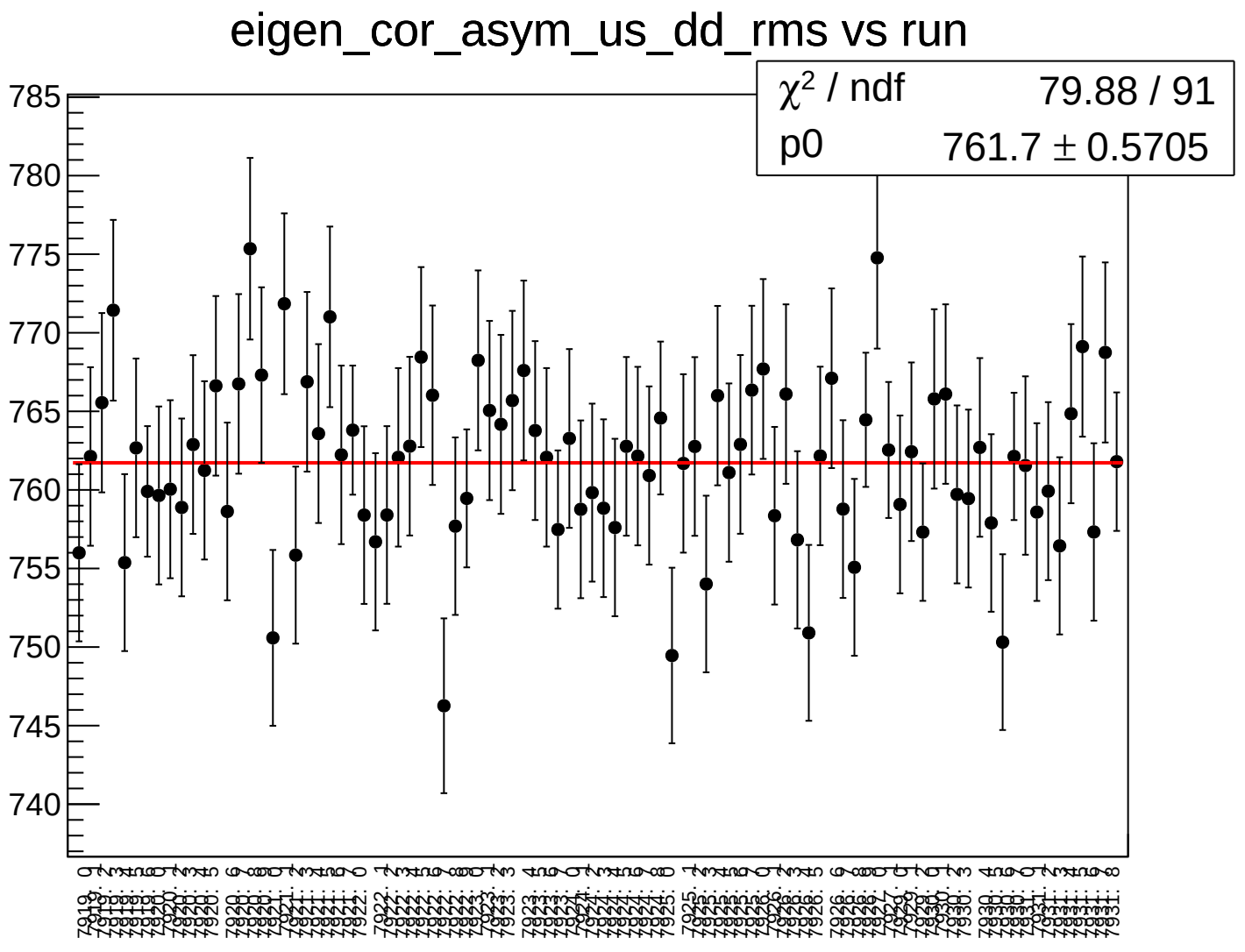

overload_cor_asym_us_dd_rms vs run
χ² / ndf 79.84 / 91
p0 761.2 ± 0.5701
780
775
770
765
760
755
750
745
740

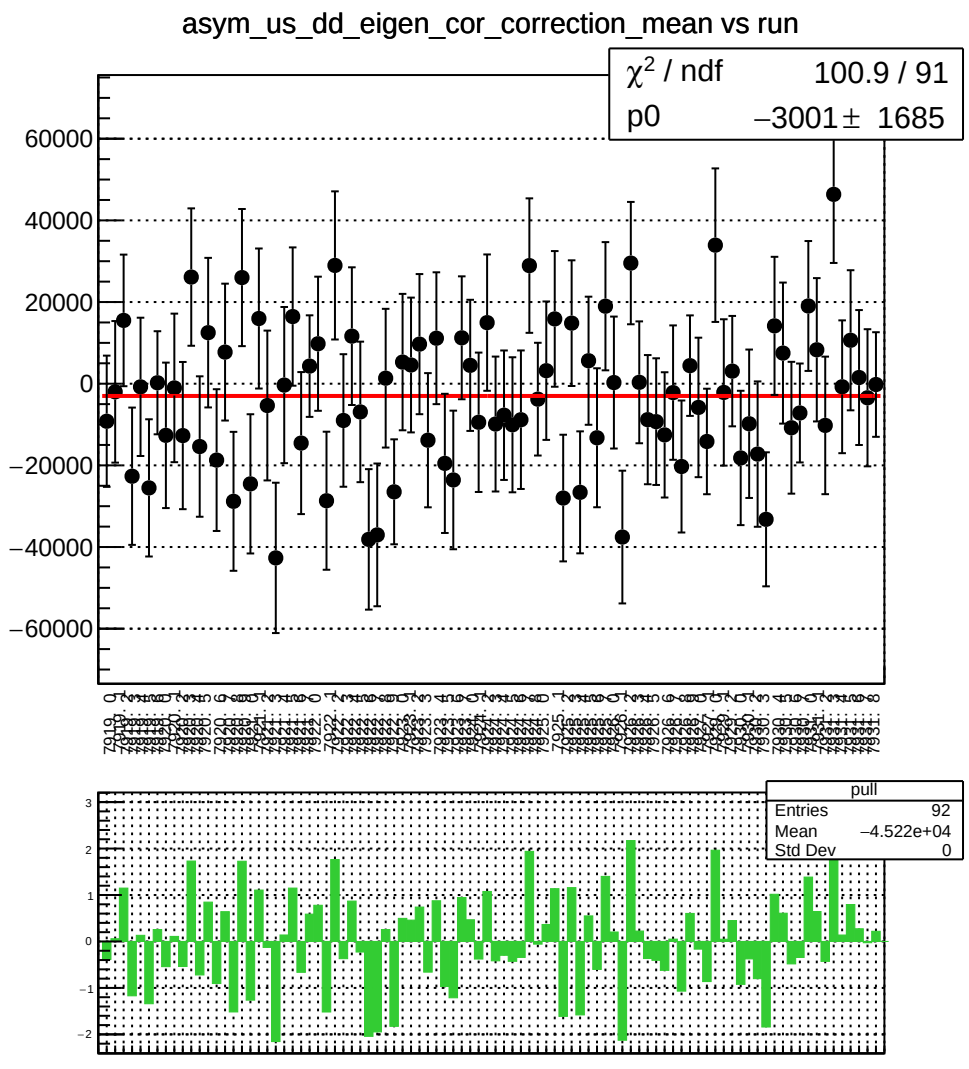

asym_us_dd_overload_cor_correction_mean vs run
χ² / ndf 101.6 / 91
p0 −2980 ± 1685
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −2.219e+04
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.0001386
Std Dev 1.051
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

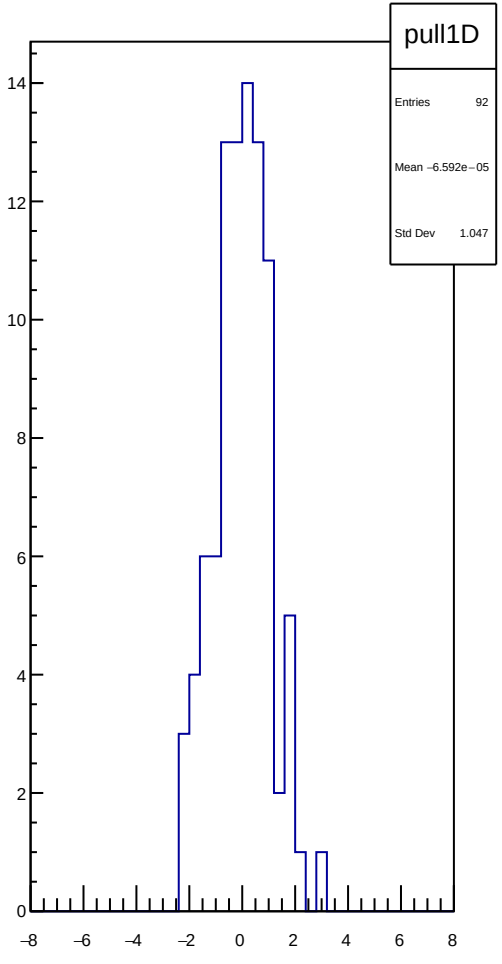

asym_us_dd_overload_cor_correction_rms vs run
χ² / ndf 3840 / 91
p0 1590 ± 1.192
1800
1700
1600
1500
1400

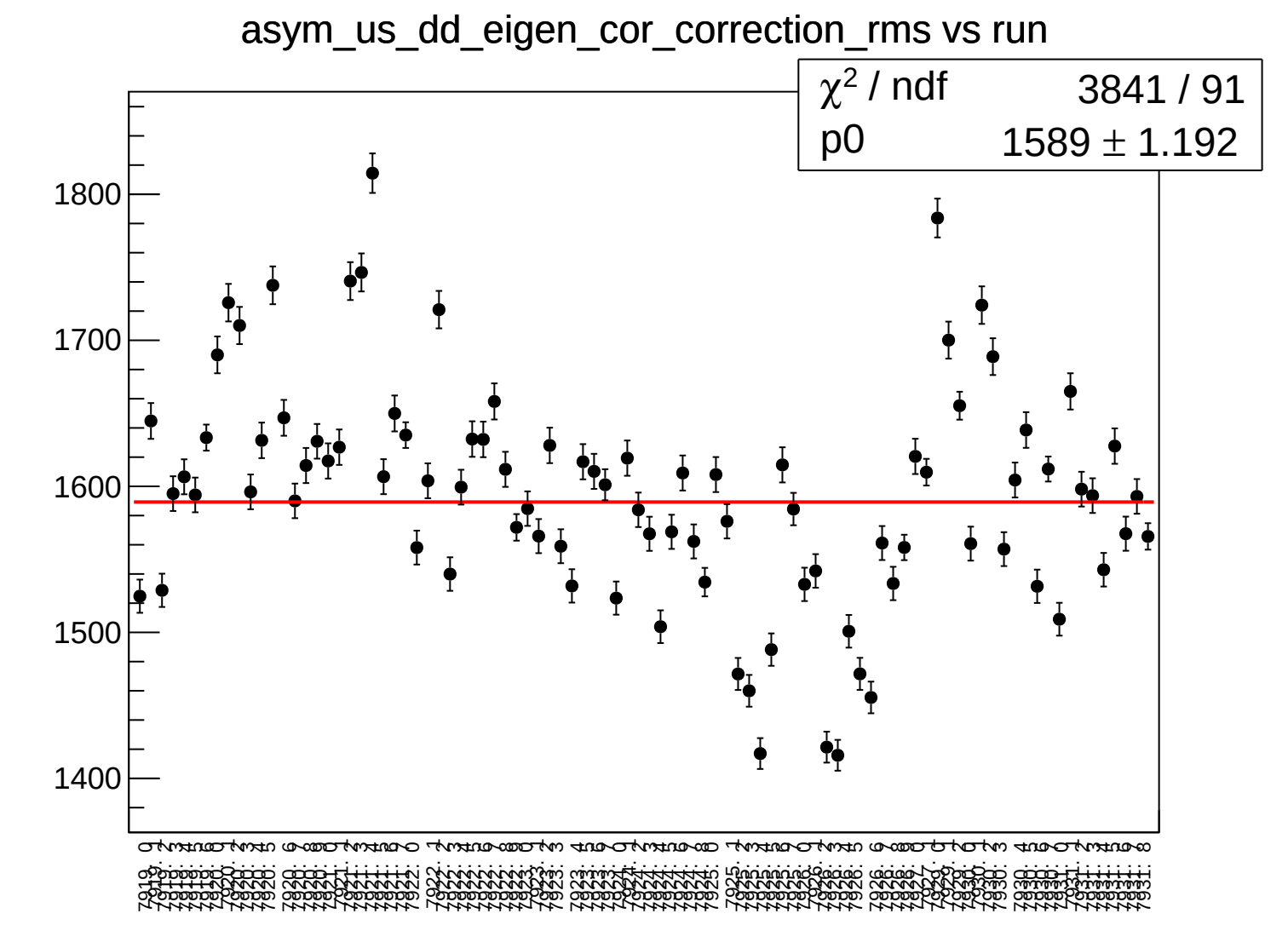

eigen_cor_asym_us_dd_mean vs run
χ² / ndf 70.2 / 91
p0 355.8 ± 806.8
20000
10000
0
−10000
−20000
pull
Entries 92
Mean 187.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

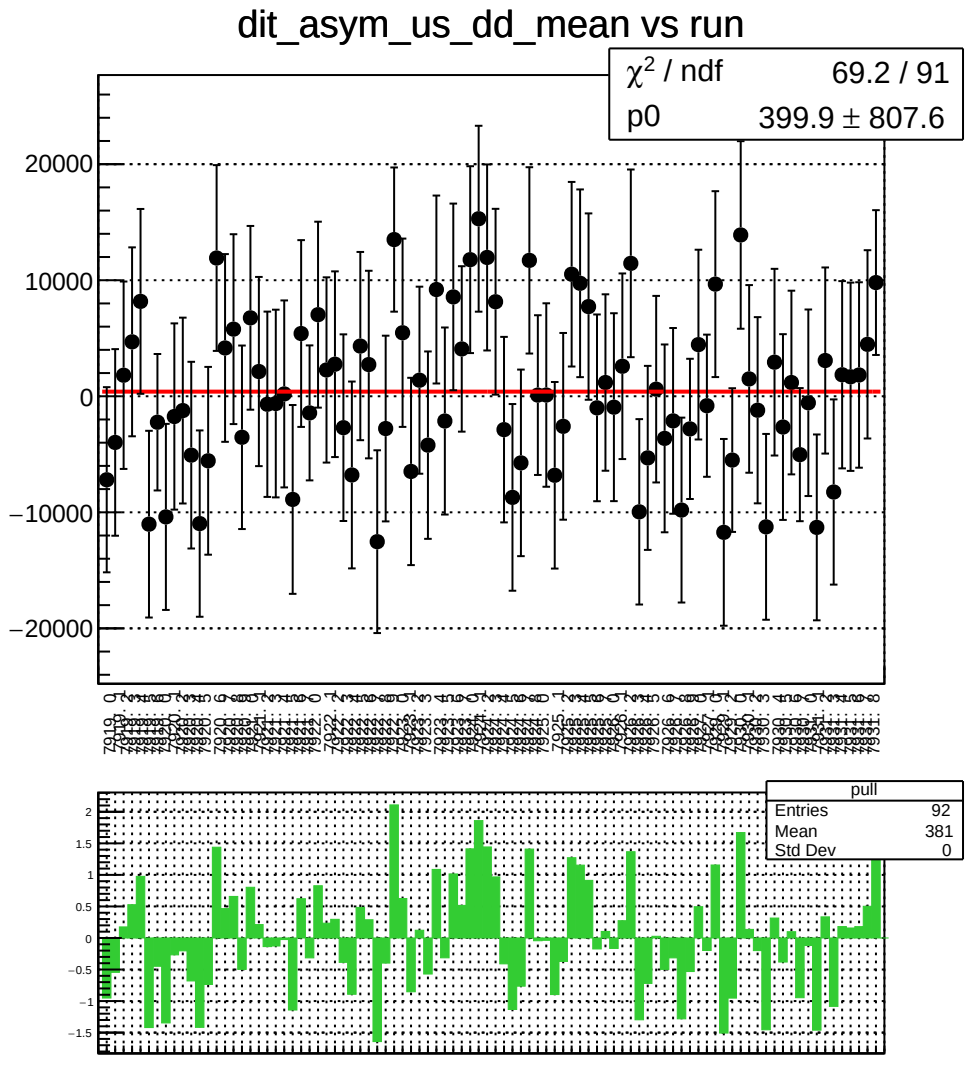

pull1D
Entries 92
Mean 0.002575
Std Dev 0.8735
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

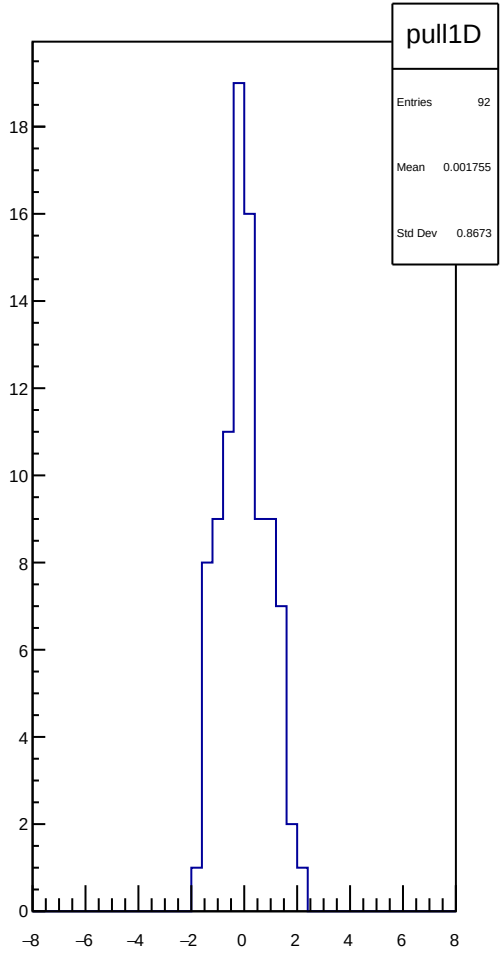

eigen_cor_asym_us_dd_rms vs run
χ² / ndf 79.88 / 91
p0 761.7 ± 0.5705
785
780
775
770
765
760
755
750
745
740

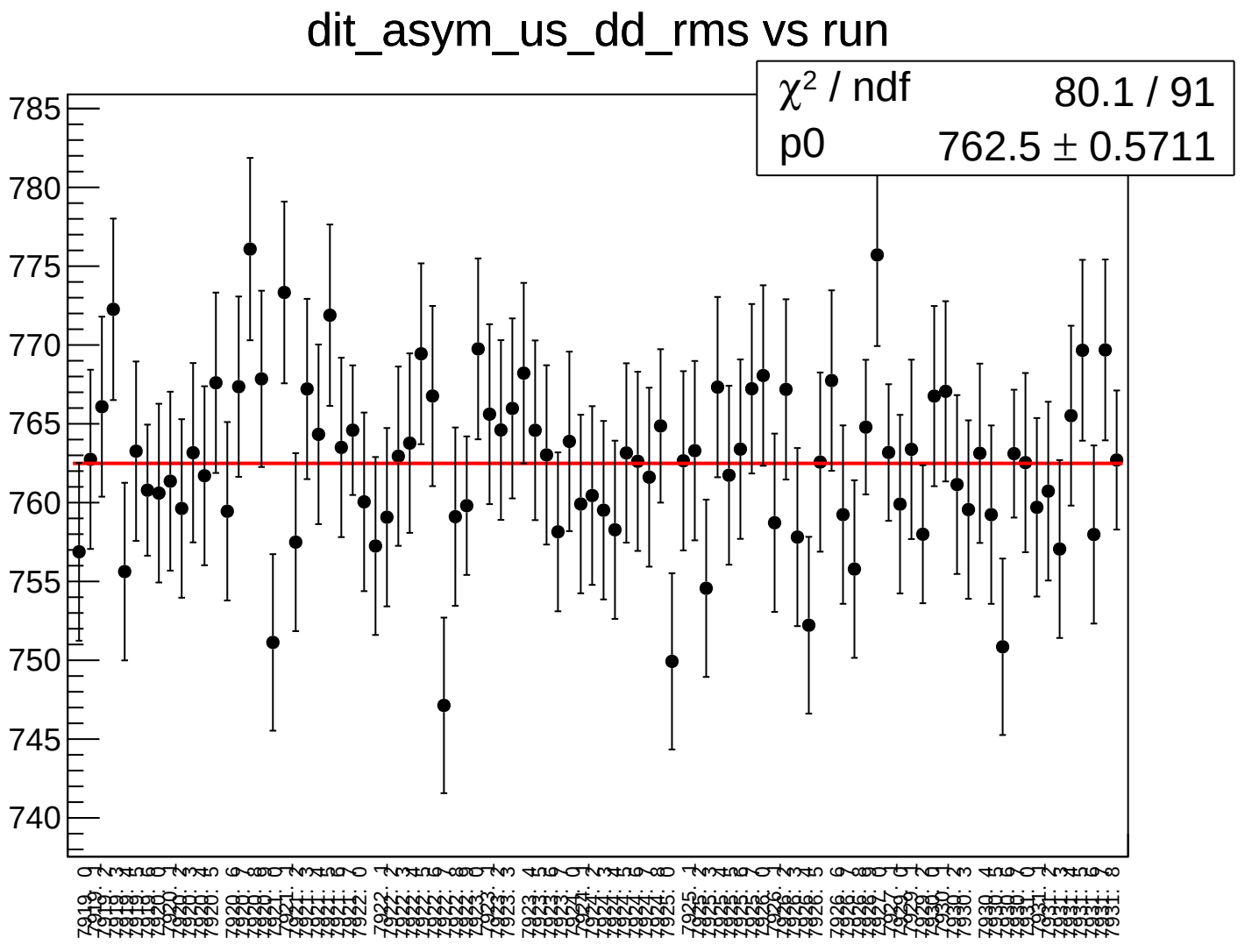

asym_us_dd_eigen_cor_correction_mean vs run
χ² / ndf 100.9 / 91
p0 −3001 ± 1685
pull
Entries 92
Mean −4.522e+04
Std Dev 0

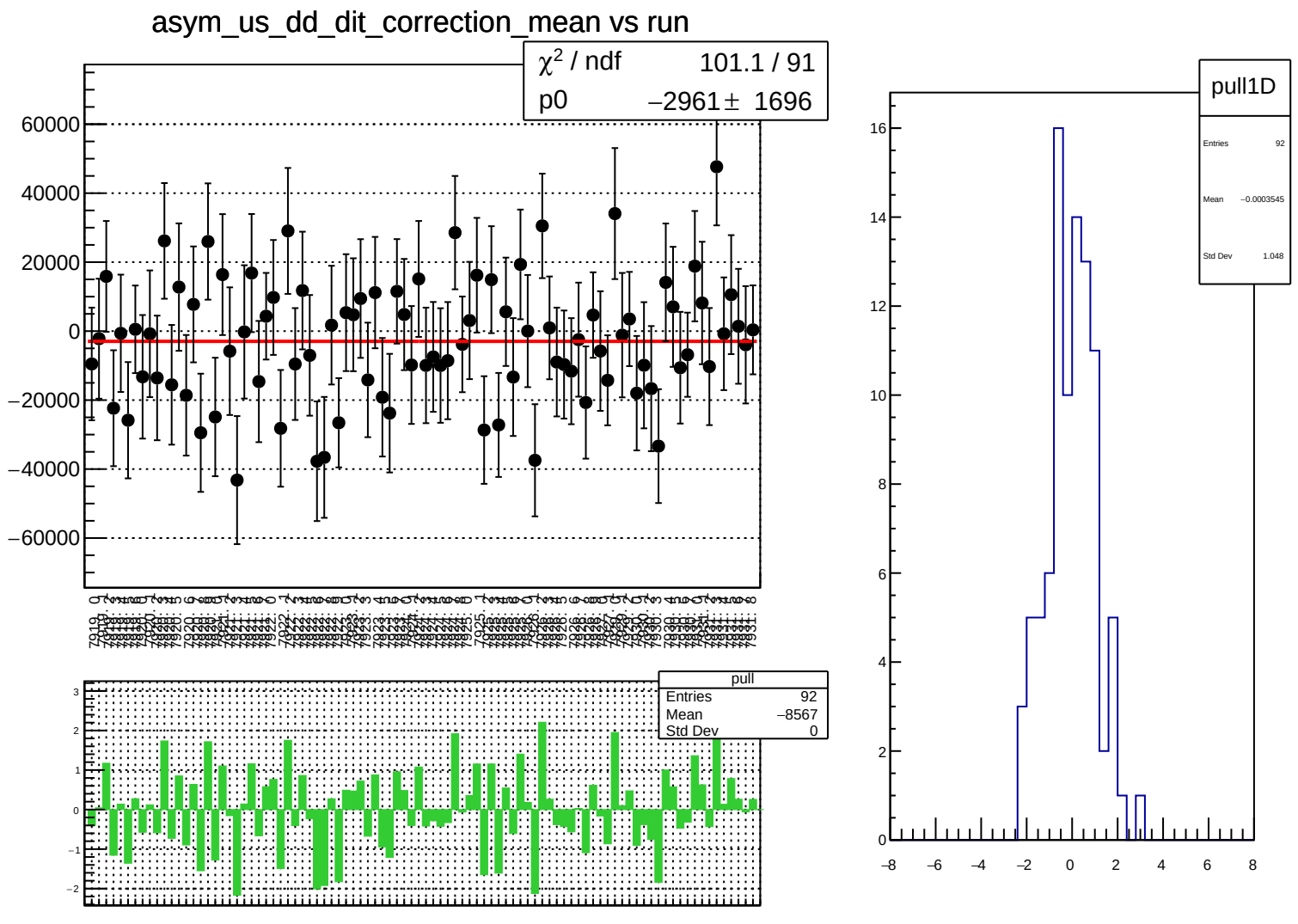

pull1D
Entries 92
Mean −6.592e−05
Std Dev 1.047

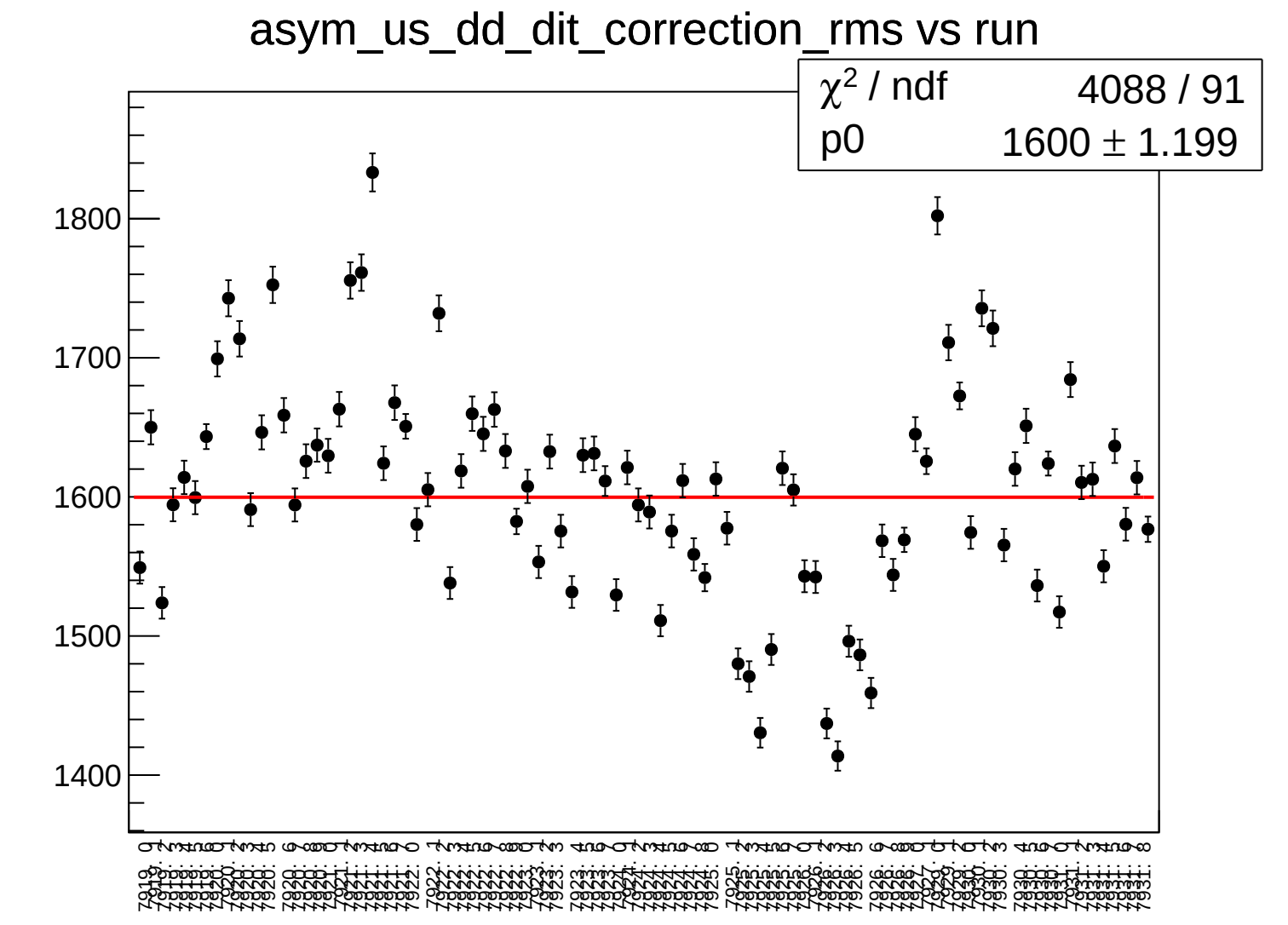

asym_us_dd_eigen_cor_correction_rms vs run
χ² / ndf 3841 / 91
p0 1589 ± 1.192
1800
1700
1600
1500
1400

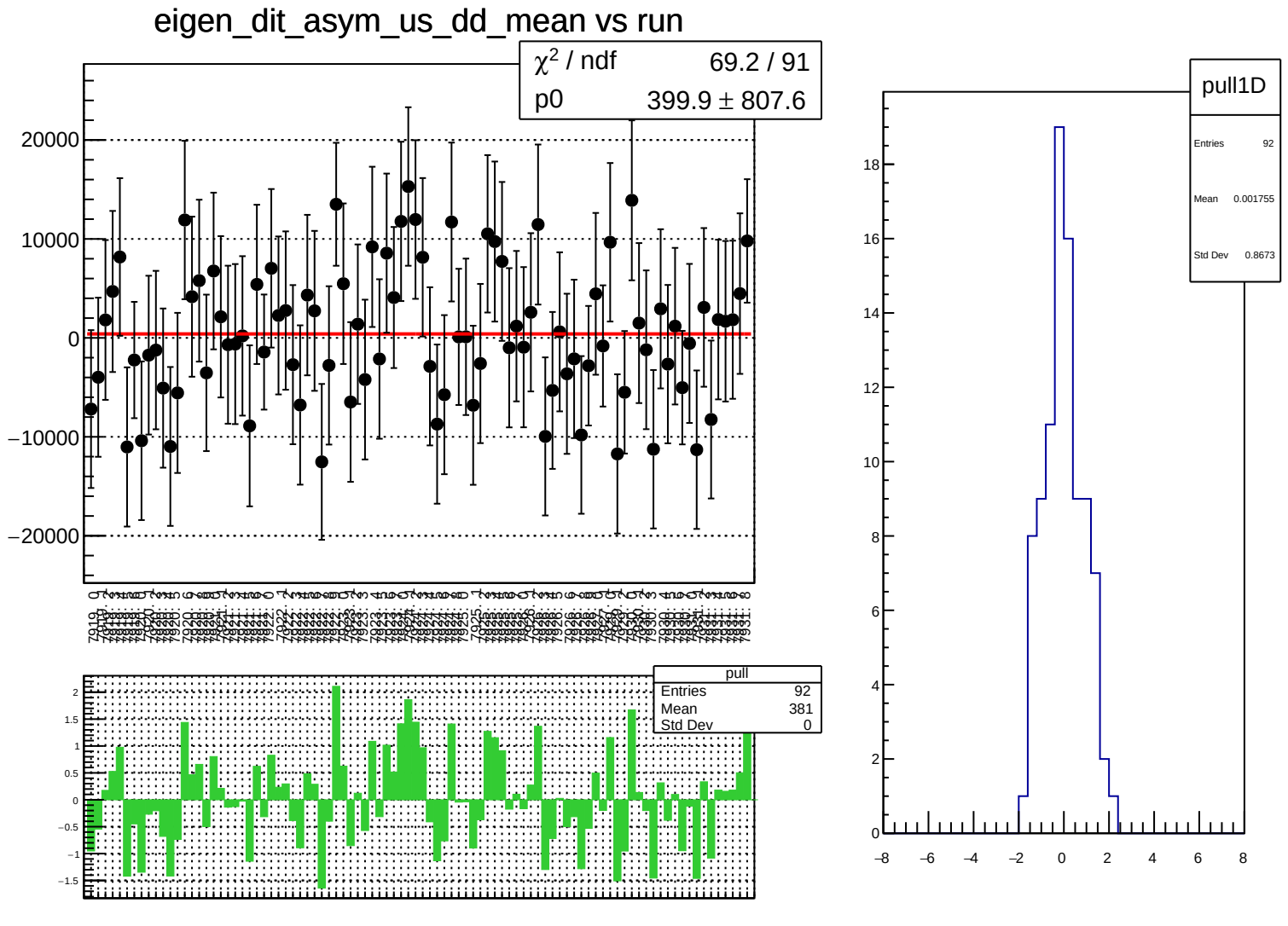

dit_asym_us_dd_mean vs run
χ² / ndf 69.2 / 91
p0 399.9 ± 807.6
20000
10000
0
−10000
−20000
pull
Entries 92
Mean 381
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

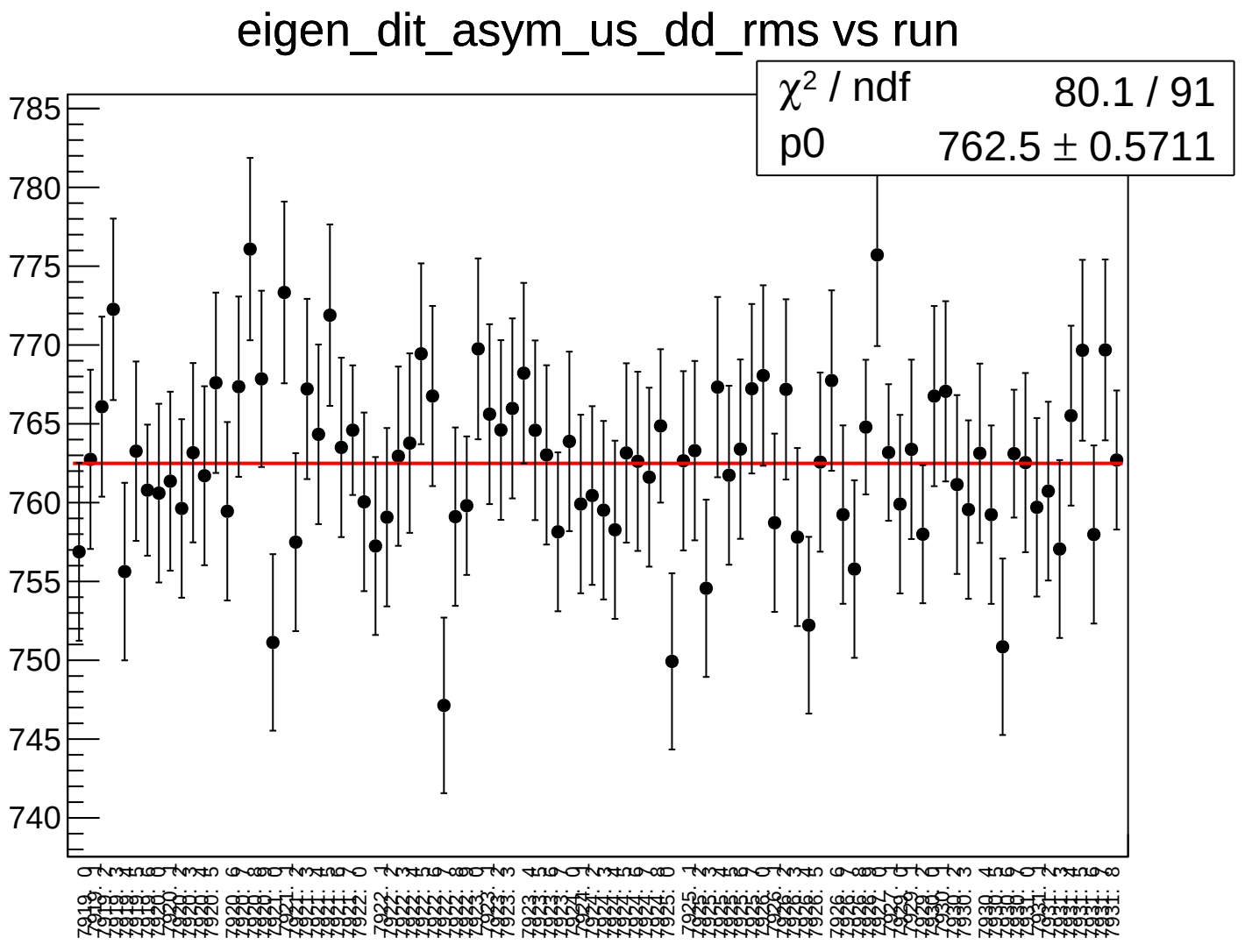

pull1D
Entries 92
Mean 0.001755
Std Dev 0.8673
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

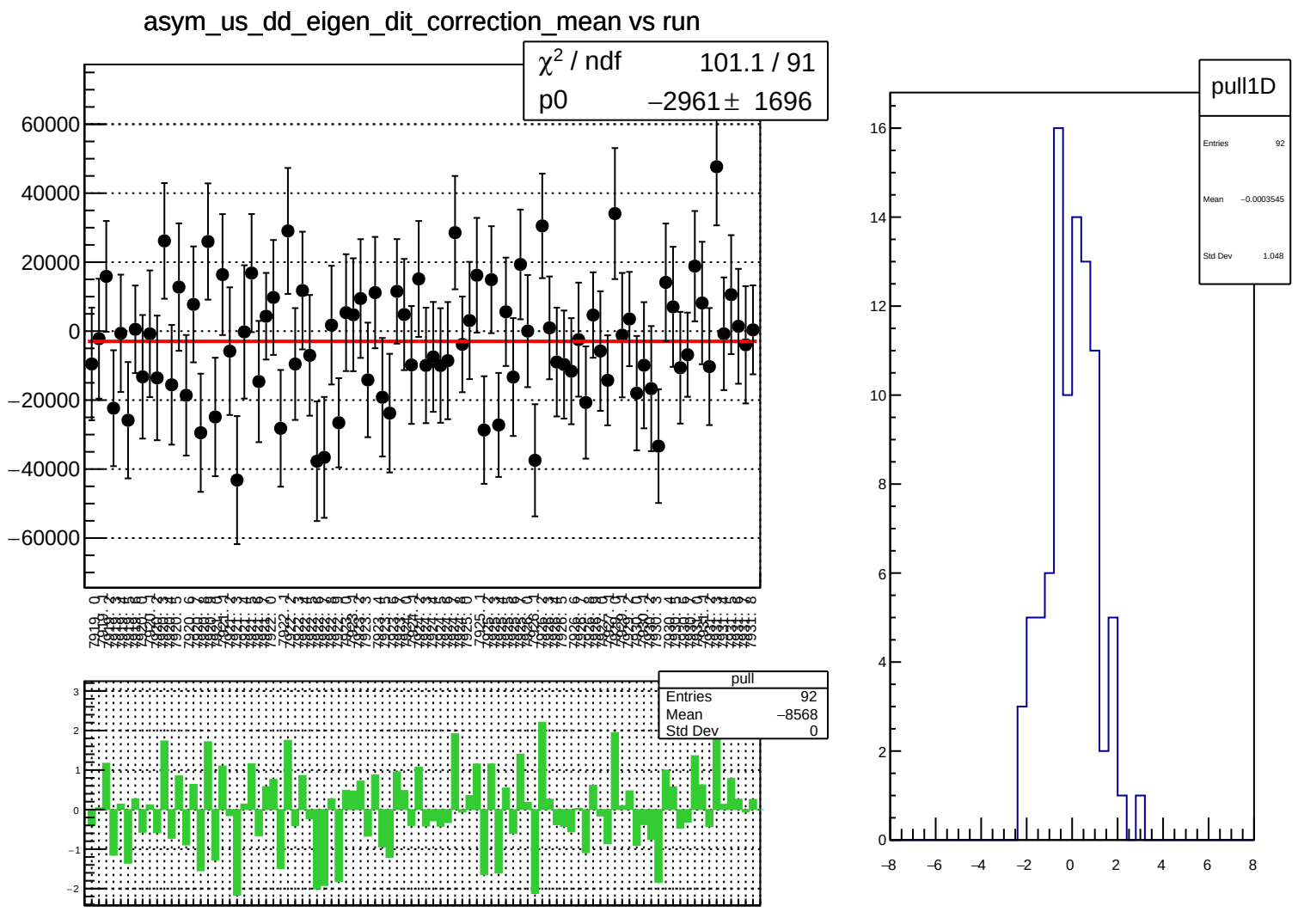

dit_asym_us_dd_rms vs run
χ² / ndf 80.1 / 91
p0 762.5 ± 0.5711
785
780
775
770
765
760
755
750
745
740

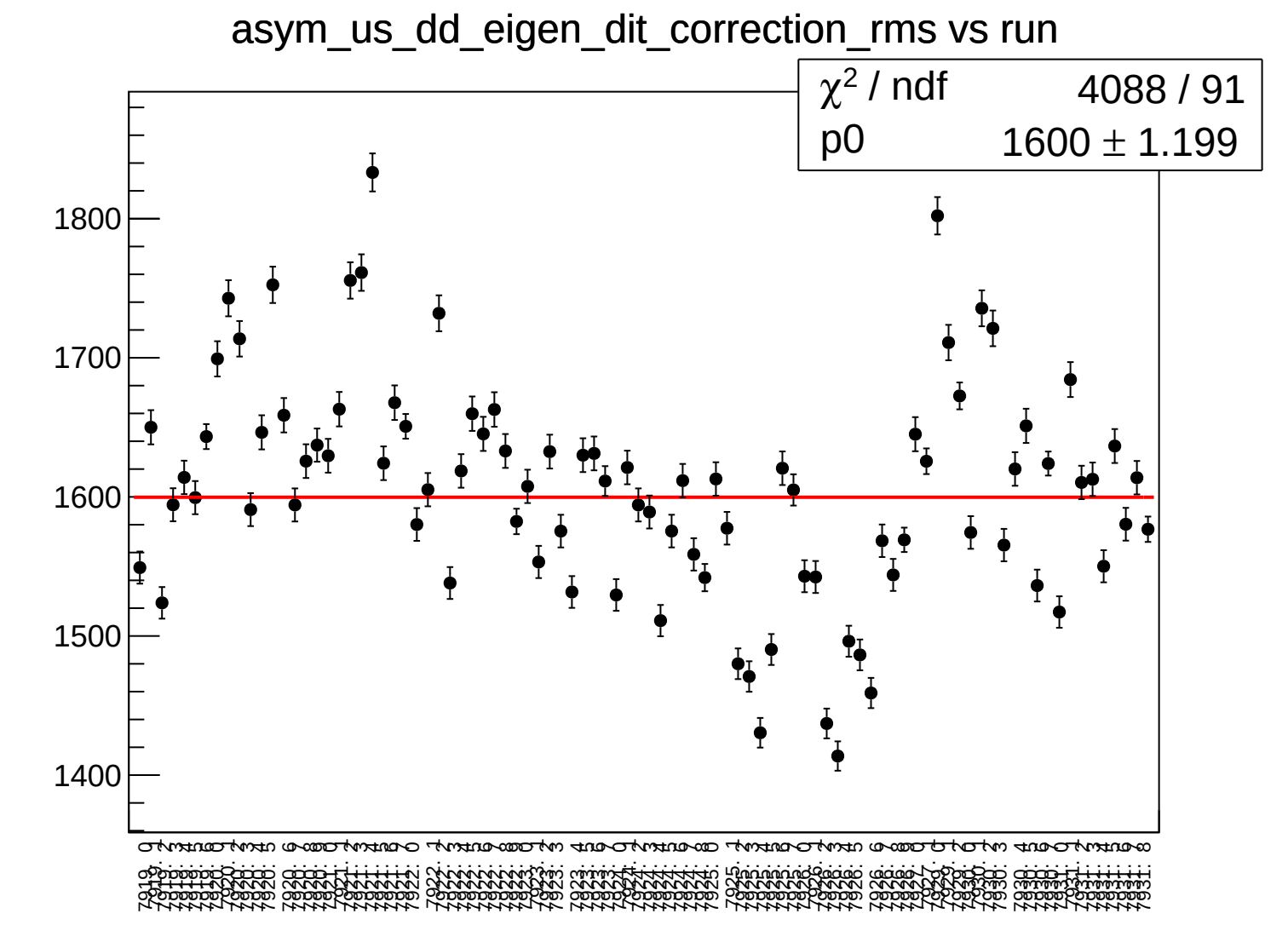

asym_us_dd_dit_correction_mean vs run
χ² / ndf 101.1 / 91
p0 −2961 ± 1696
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −8567
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.0003545
Std Dev 1.048
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

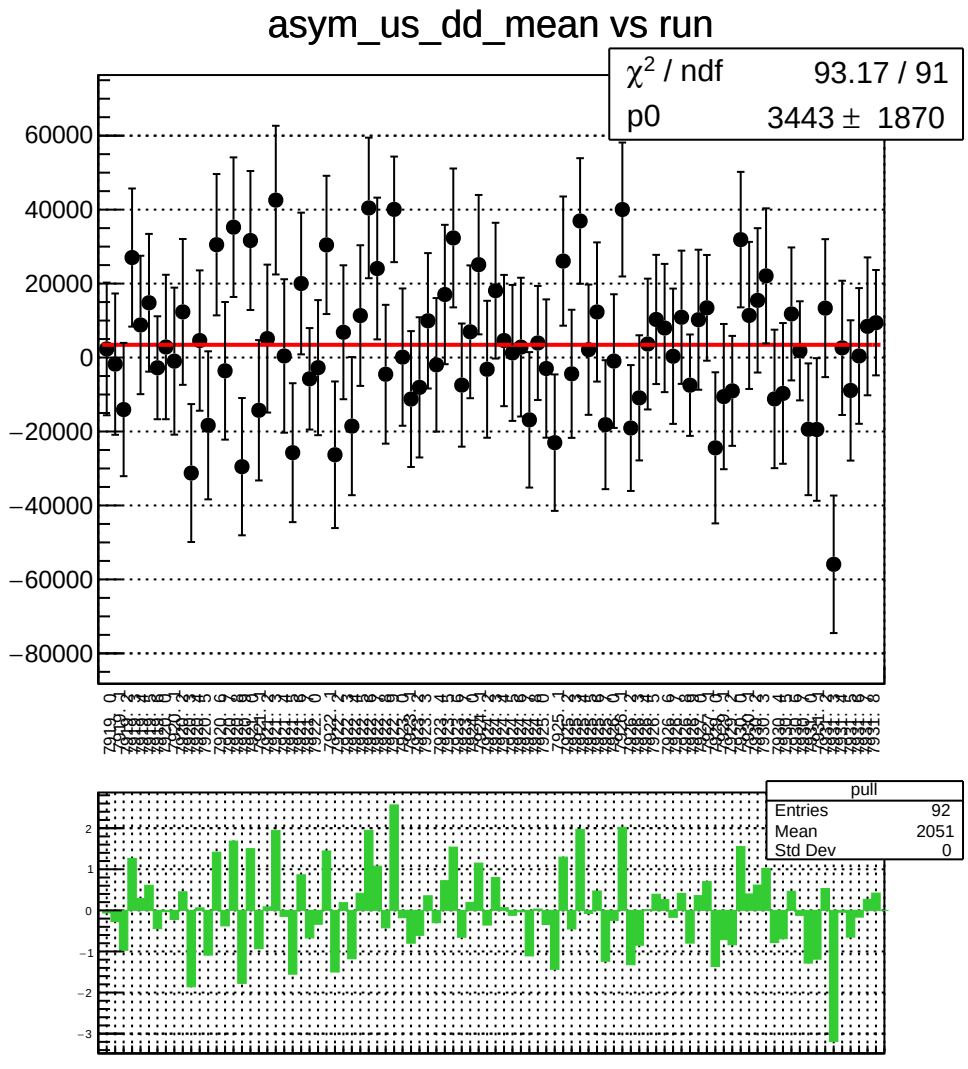

asym_us_dd_dit_correction_rms vs run
χ² / ndf 4088 / 91
p0 1600 ± 1.199
1800
1700
1600
1500
1400

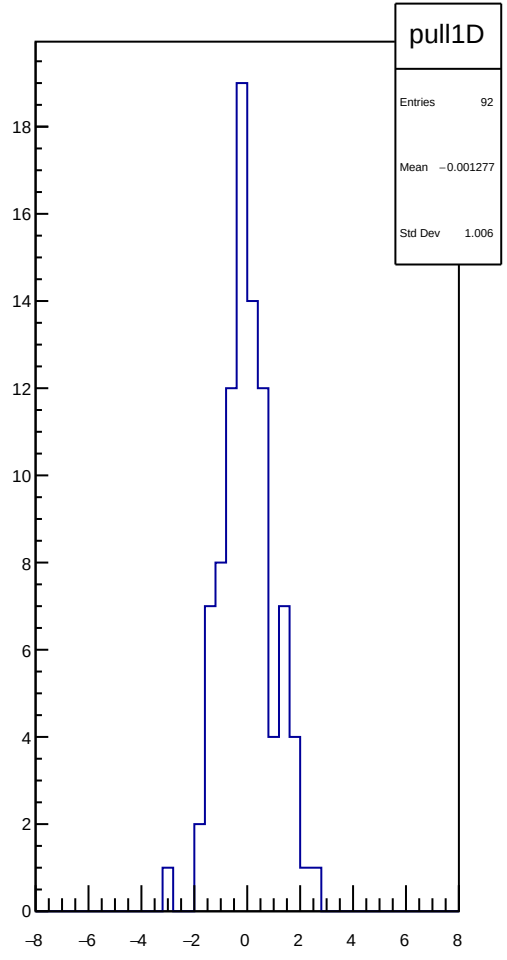

eigen_dit_asym_us_dd_mean vs run
χ² / ndf 69.2 / 91
p0 399.9 ± 807.6
20000
10000
0
−10000
−20000
pull
Entries 92
Mean 381
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 92
Mean 0.001755
Std Dev 0.8673
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

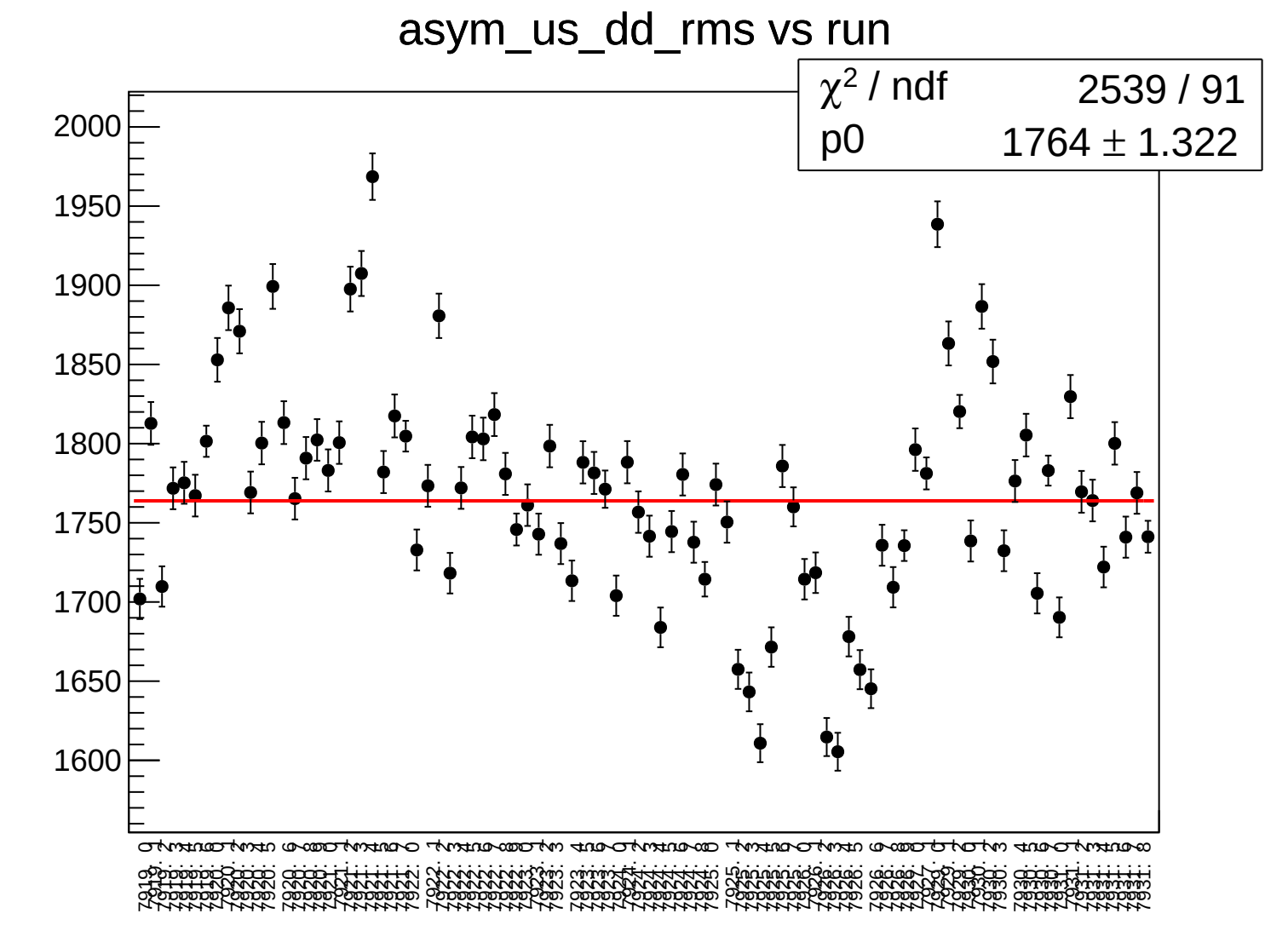

eigen_dit_asym_us_dd_rms vs run
χ² / ndf 80.1 / 91
p0 762.5 ± 0.5711
785
780
775
770
765
760
755
750
745
740

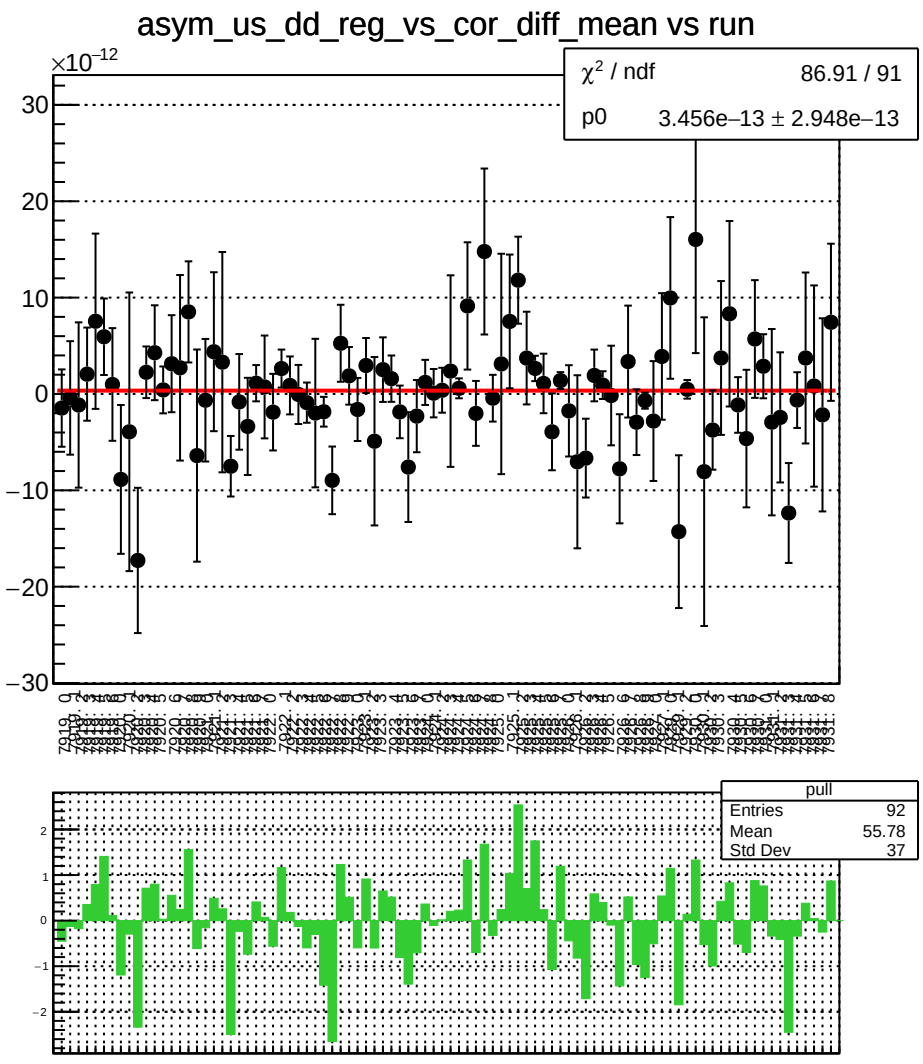

asym_us_dd_eigen_dit_correction_mean vs run
χ² / ndf 101.1 / 91
p0 −2961 ± 1696
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −8568
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.0003545
Std Dev 1.048
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

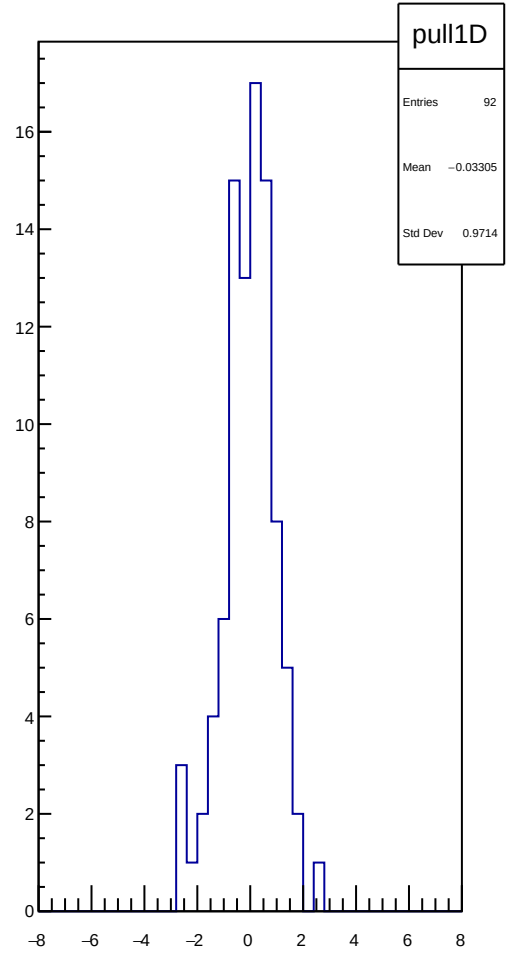

asym_us_dd_eigen_dit_correction_rms vs run
χ² / ndf 4088 / 91
p0 1600 ± 1.199
1800
1700
1600
1500
1400

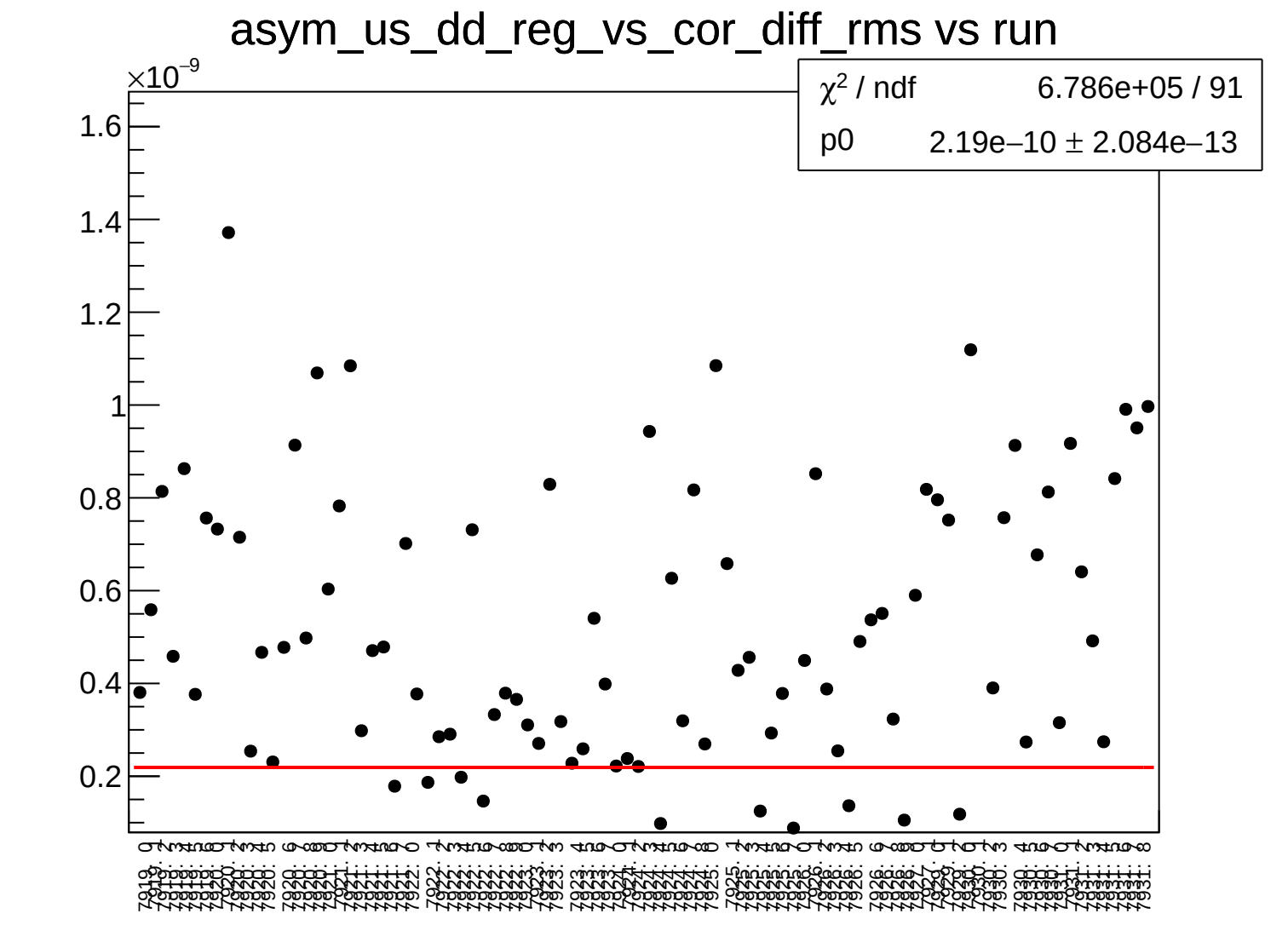

asym_us_dd_mean vs run
χ^2 / ndf 93.17 / 91
p0 3443 ± 1870
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean 2051
Std Dev 0
2
1
0
−1
−2
−3

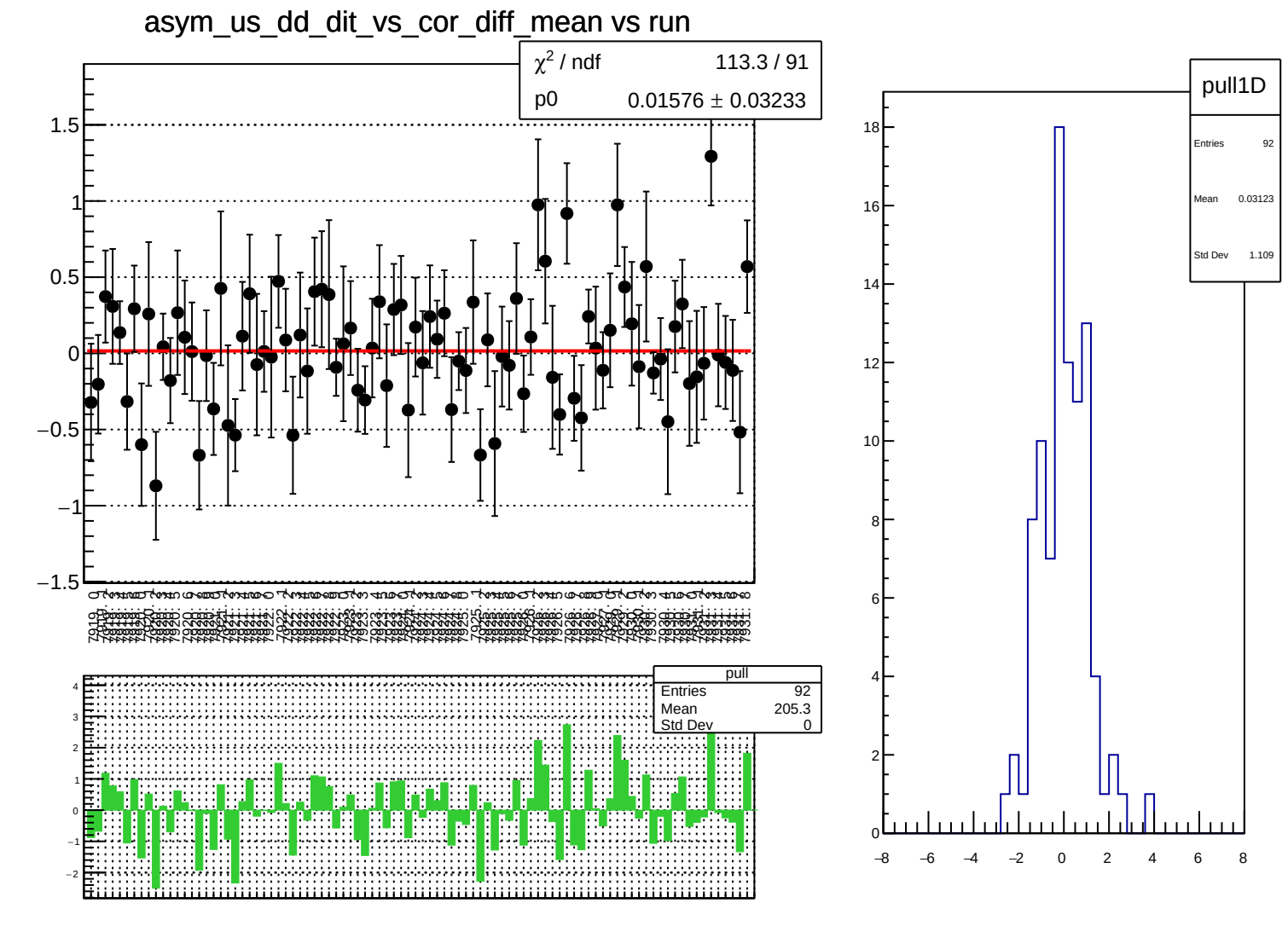

pull1D
Entries 92
Mean −0.001277
Std Dev 1.006
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

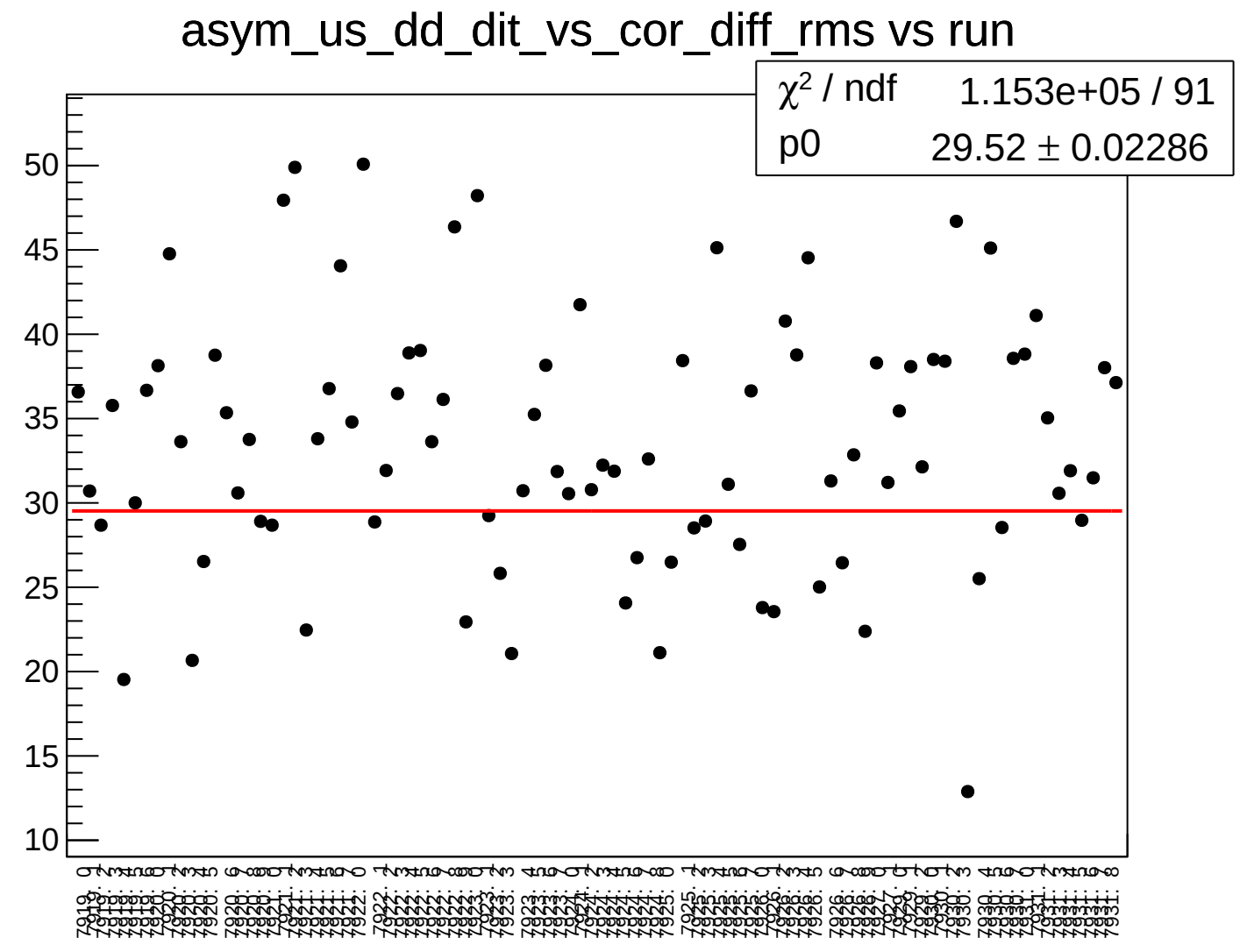

asym_us_dd_rms vs run
χ^2 / ndf 2539 / 91
p0 1764 ± 1.322
2000
1950
1900
1850
1800
1750
1700
1650
1600

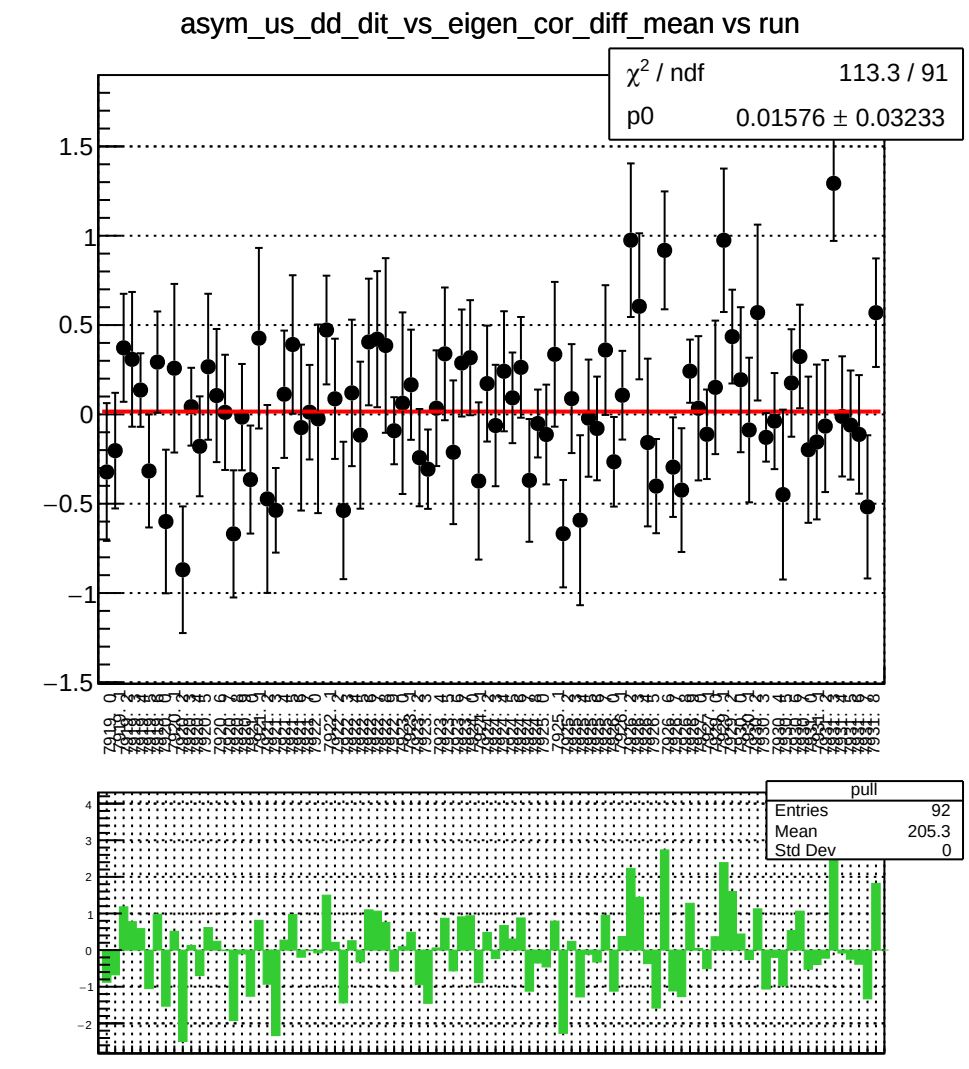

asym_us_dd_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.91 / 91
p0 3.456e−13 ± 2.948e−13
pull
Entries 92
Mean 55.78
Std Dev 37

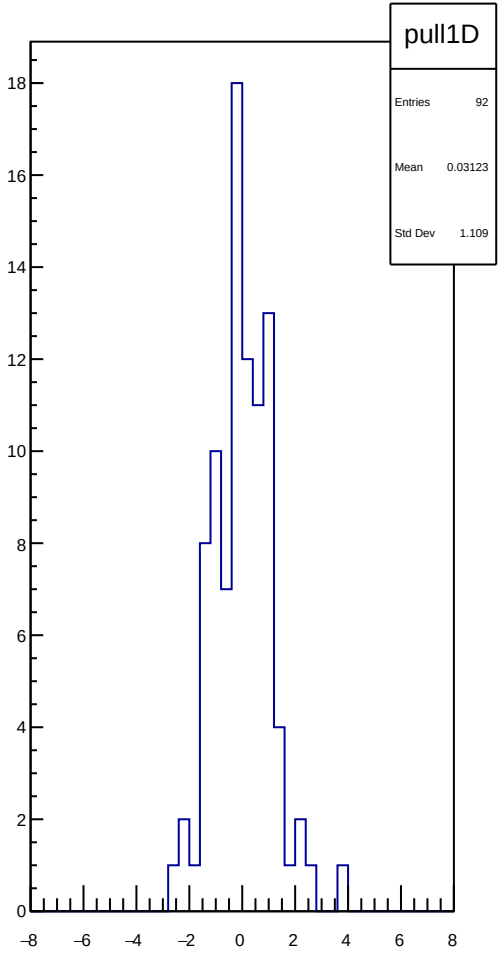

pull1D
Entries 92
Mean −0.03305
Std Dev 0.9714

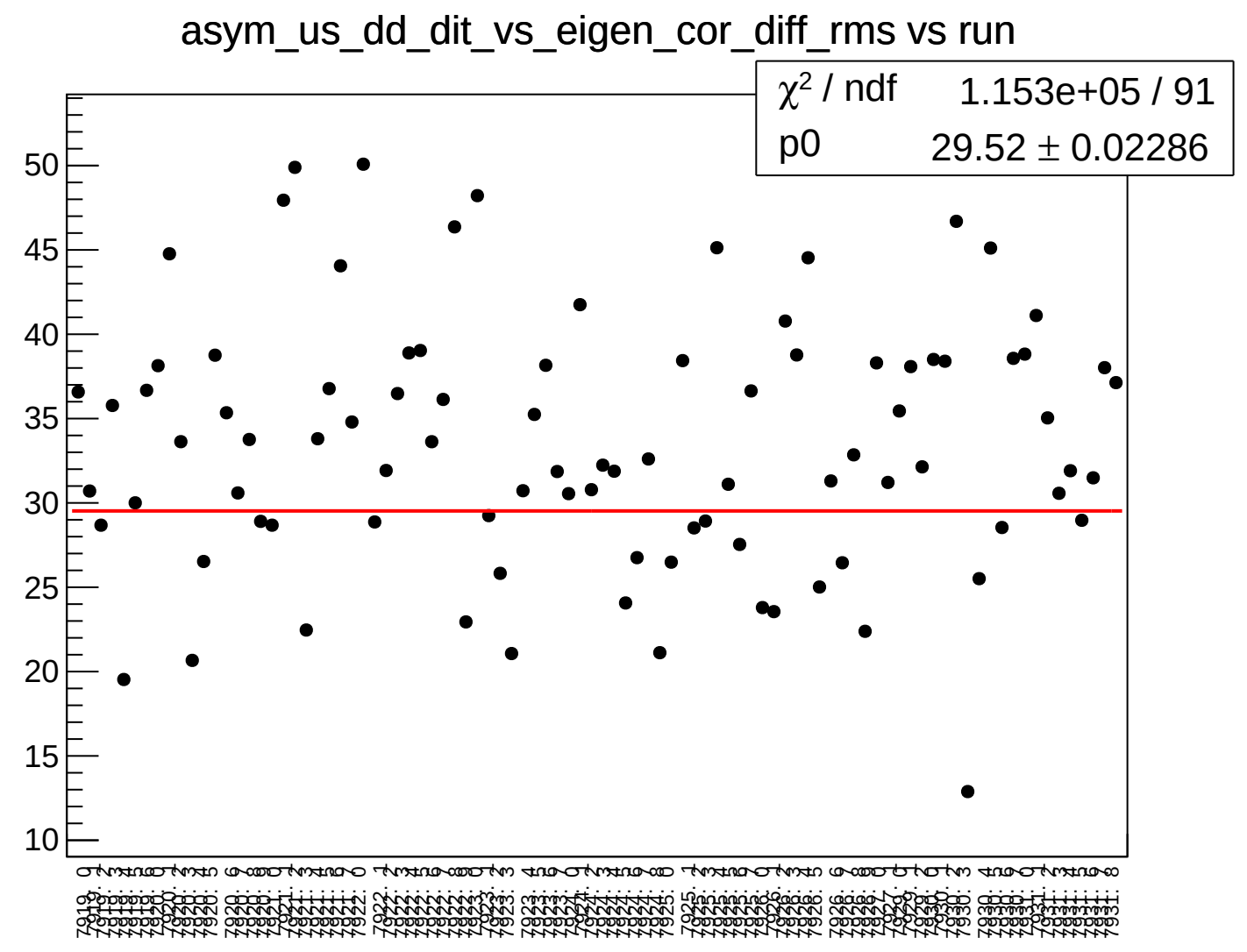

asym_us_dd_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.786e+05 / 91
p0 2.19e−10 ± 2.084e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

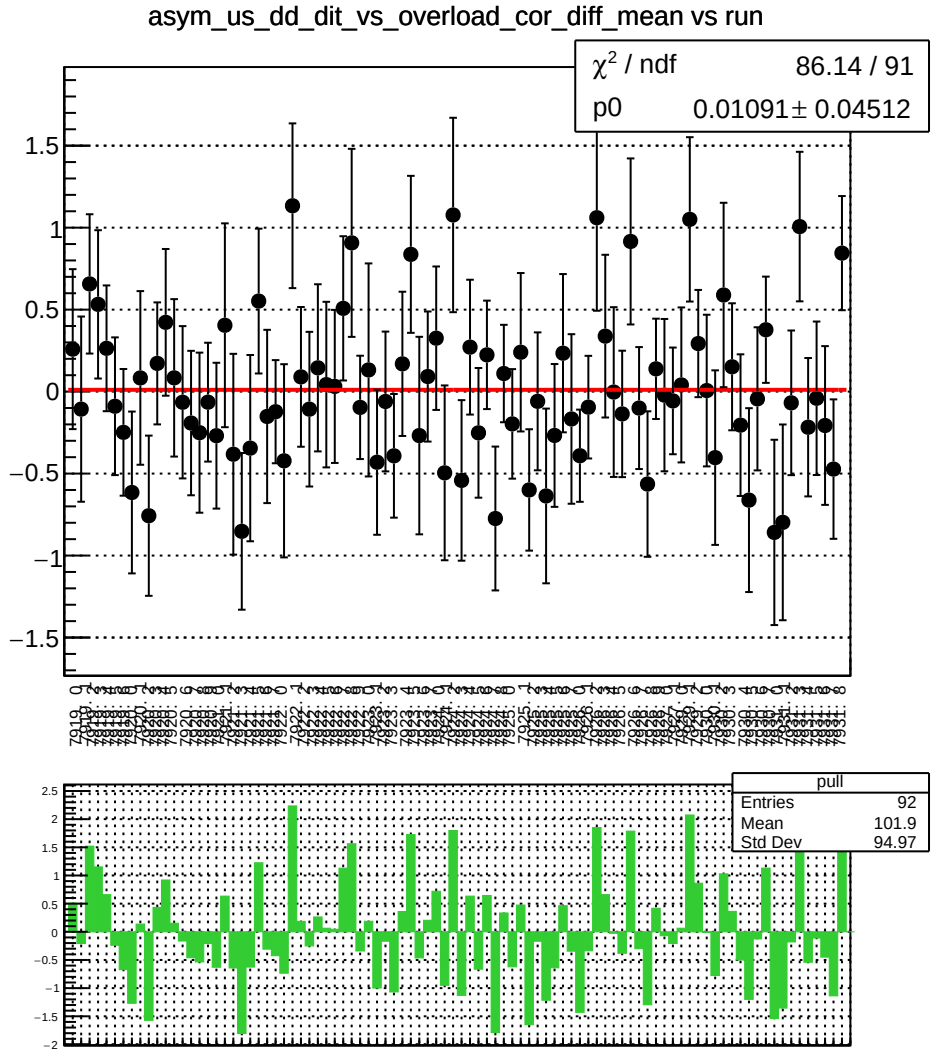

asym_us_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 113.3 / 91
p0 0.01576 ± 0.03233
pull
Entries 92
Mean 205.3
Std Dev 0
pull1D
Entries 92
Mean 0.03123
Std Dev 1.109

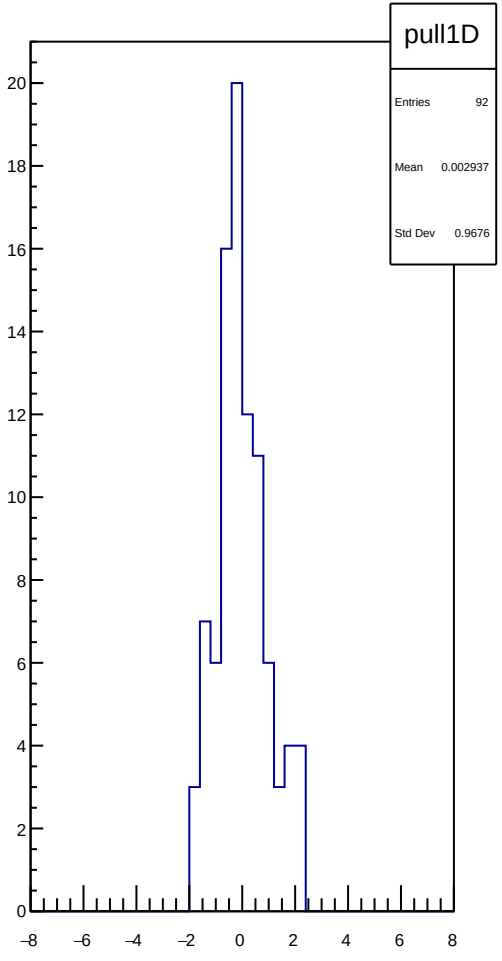

asym_us_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.153e+05 / 91
p0 29.52 ± 0.02286
50
45
40
35
30
25
20
15
10

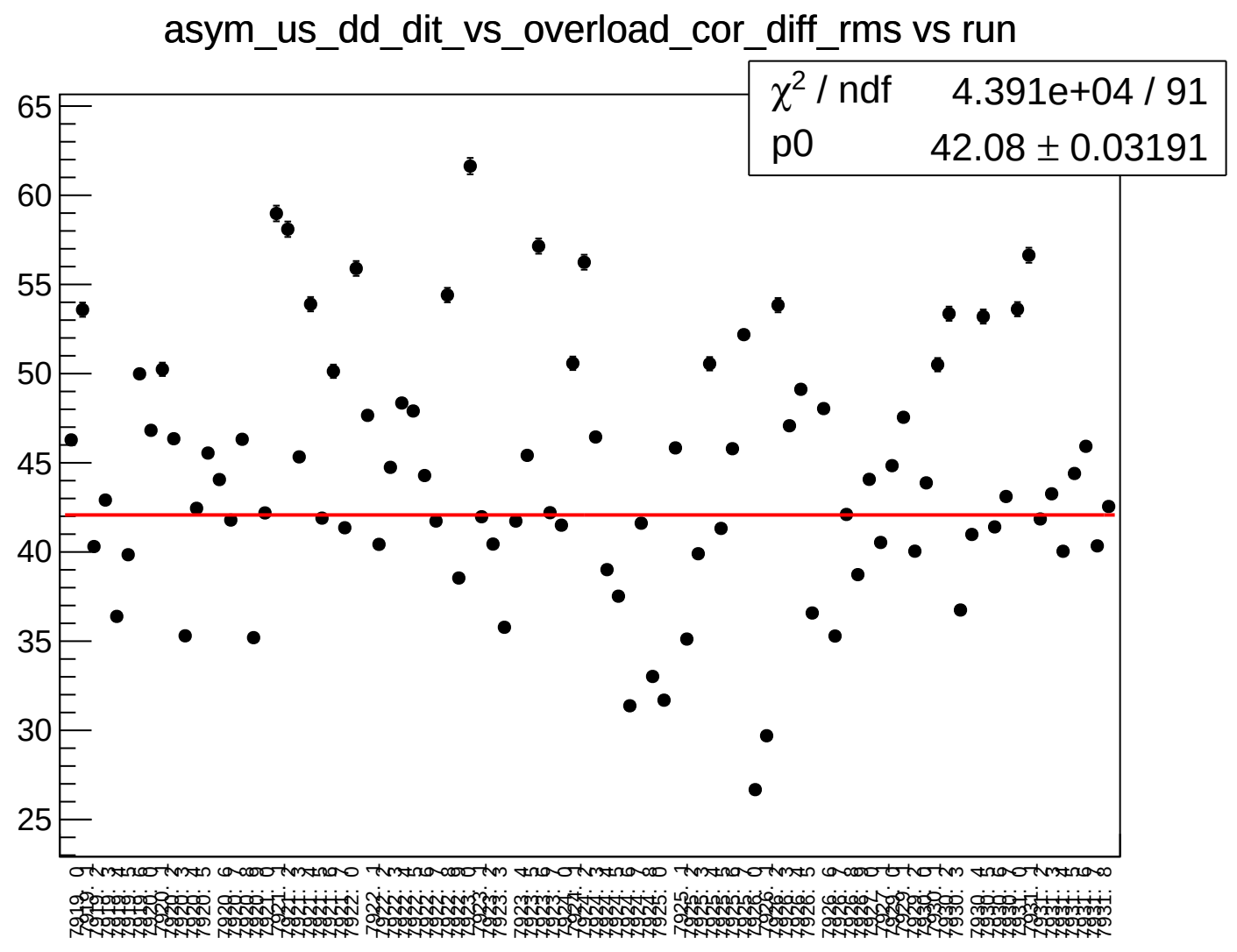

asym_us_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 113.3 / 91
p0 0.01576 ± 0.03233
pull
Entries 92
Mean 205.3
Std Dev 0

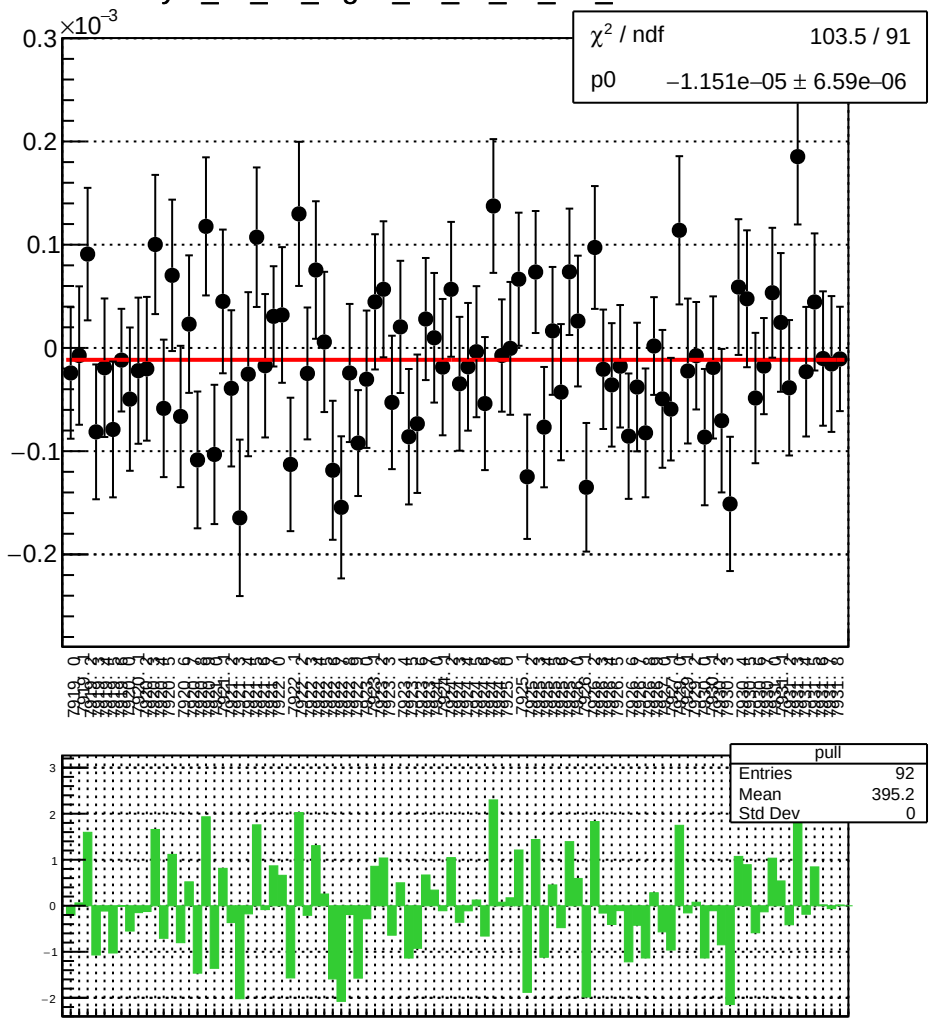

pull1D
Entries 92
Mean 0.03123
Std Dev 1.109

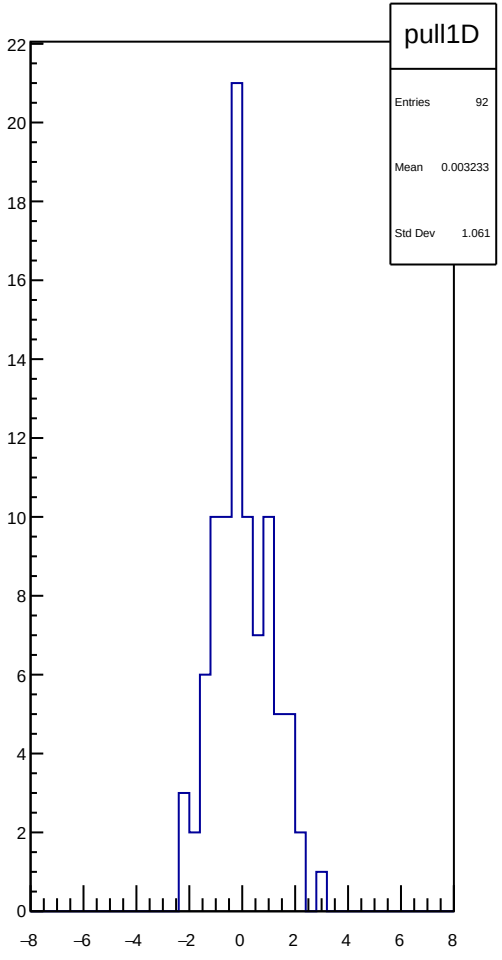

asym_us_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.153e+05 / 91
p0 29.52 ± 0.02286
50
45
40
35
30
25
20
15
10

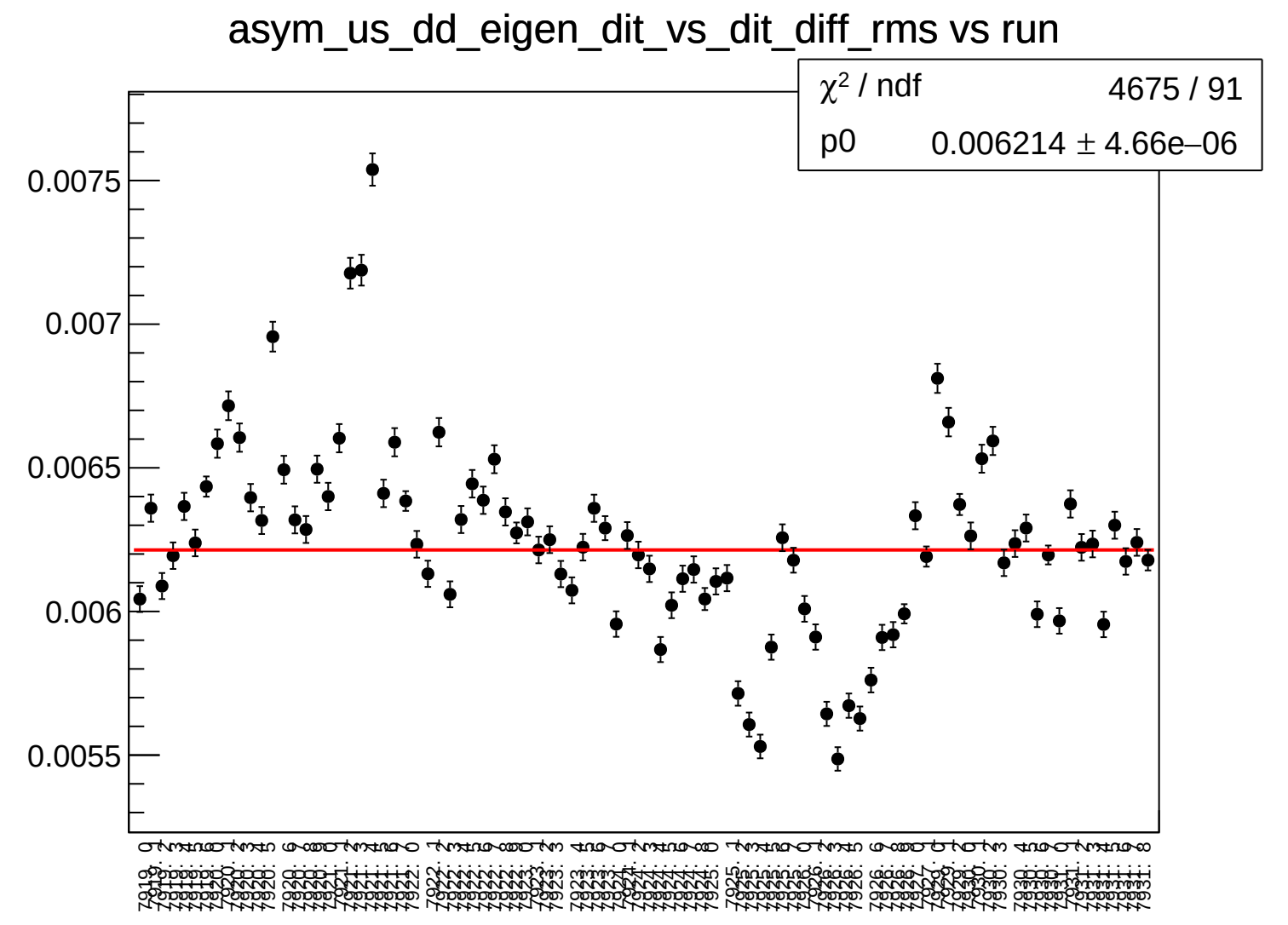

asym_us_dd_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 86.14 / 91
p0 0.01091 ± 0.04512
pull
Entries 92
Mean 101.9
Std Dev 94.97

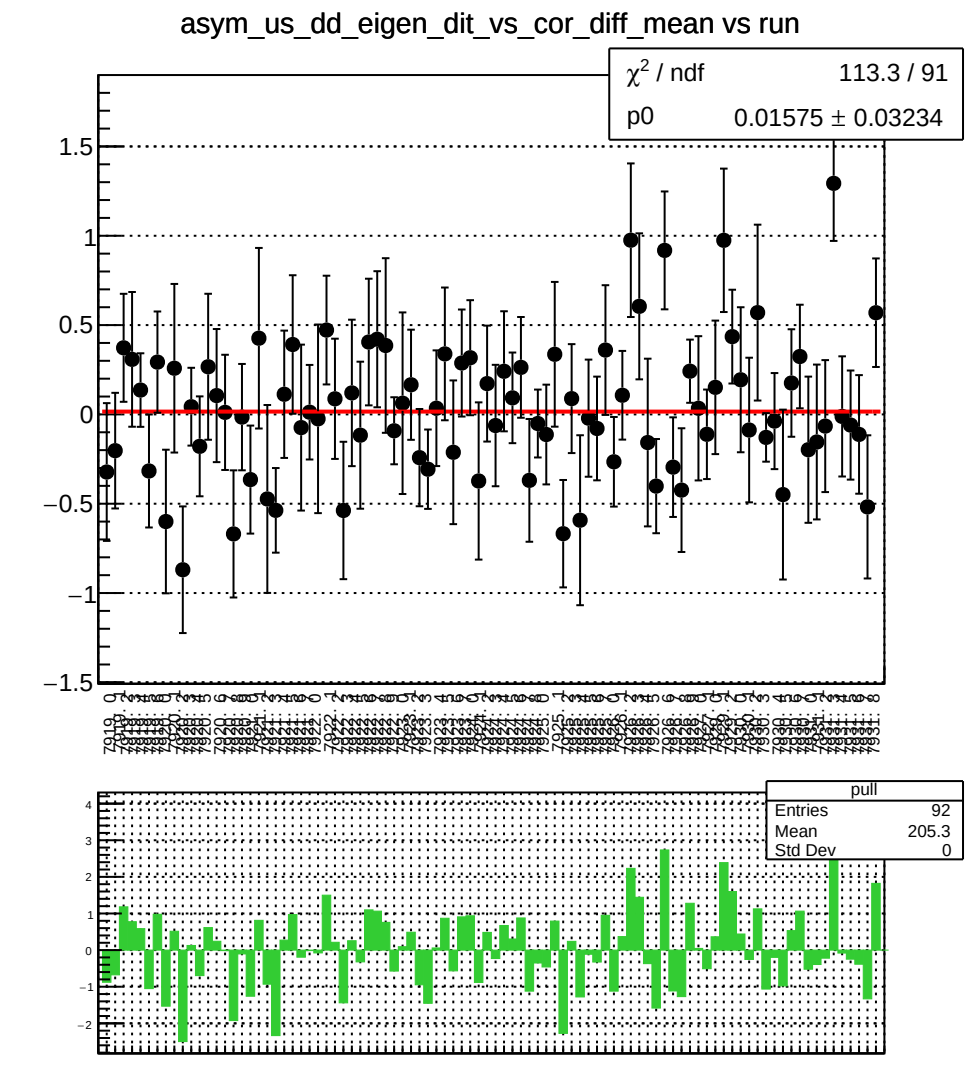

pull1D
Entries 92
Mean 0.002937
Std Dev 0.9676

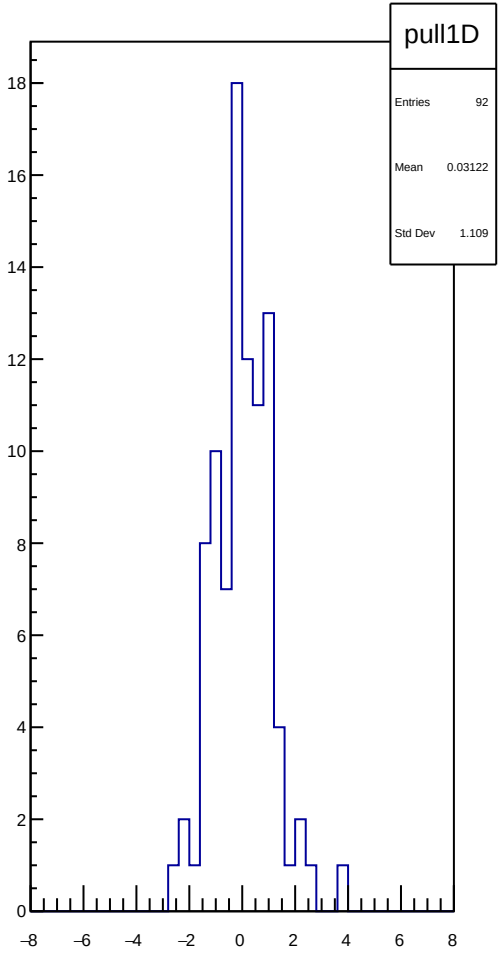

asym_us_dd_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 4.391e+04 / 91
p0 42.08 ± 0.03191
65
60
55
50
45
40
35
30
25

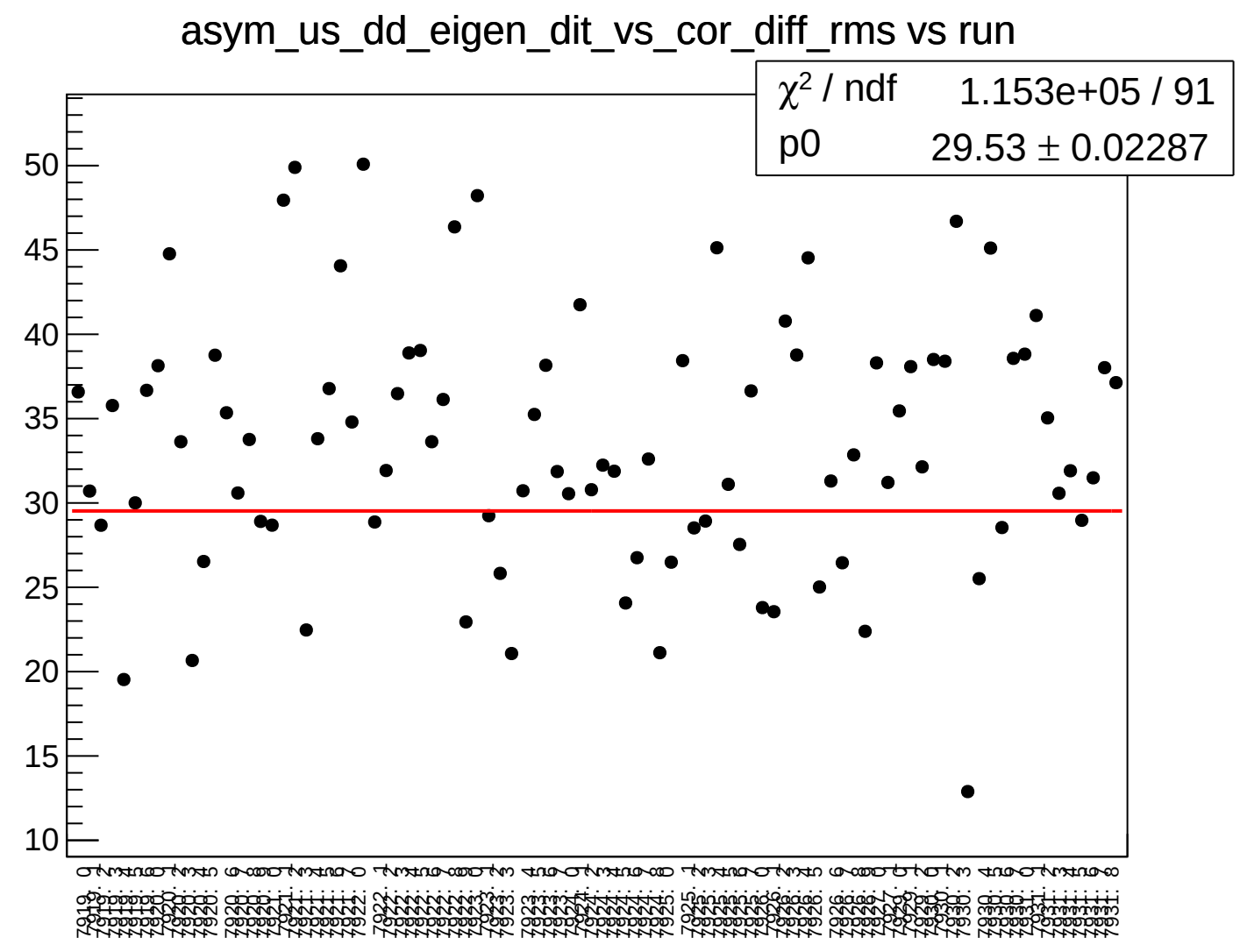

asym_us_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 103.5 / 91
p0 −1.151e−05 ± 6.59e−06
pull
Entries 92
Mean 395.2
Std Dev 0

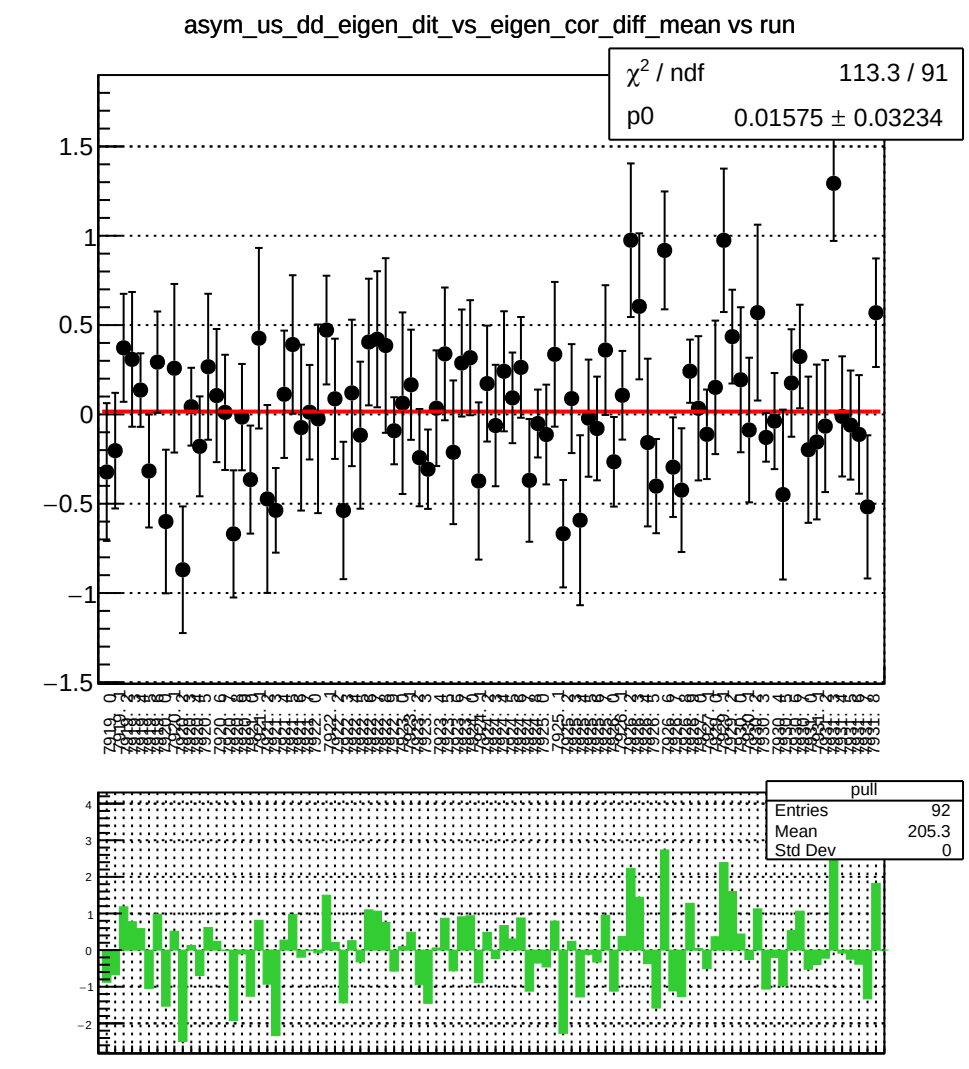

pull1D
Entries 92
Mean 0.003233
Std Dev 1.061

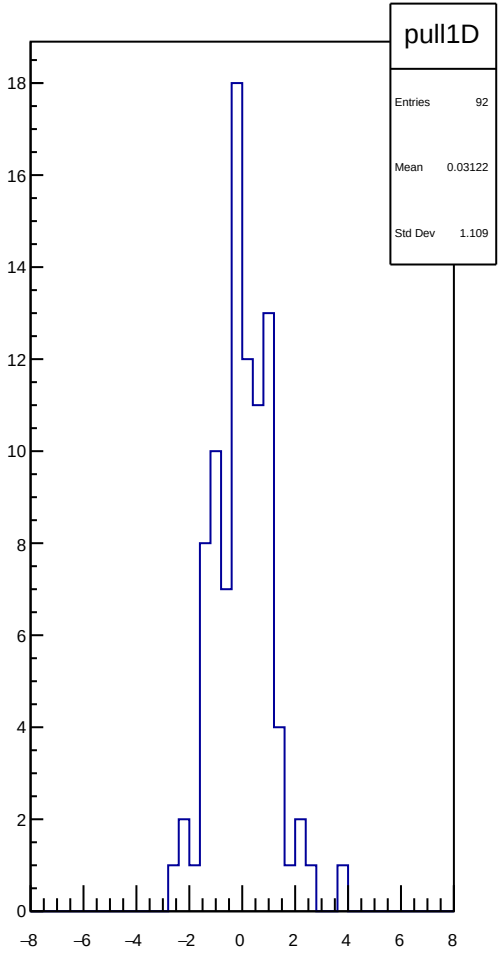

asym_us_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4675 / 91
p0 0.006214 ± 4.66e−06
0.0075
0.007
0.0065
0.006
0.0055

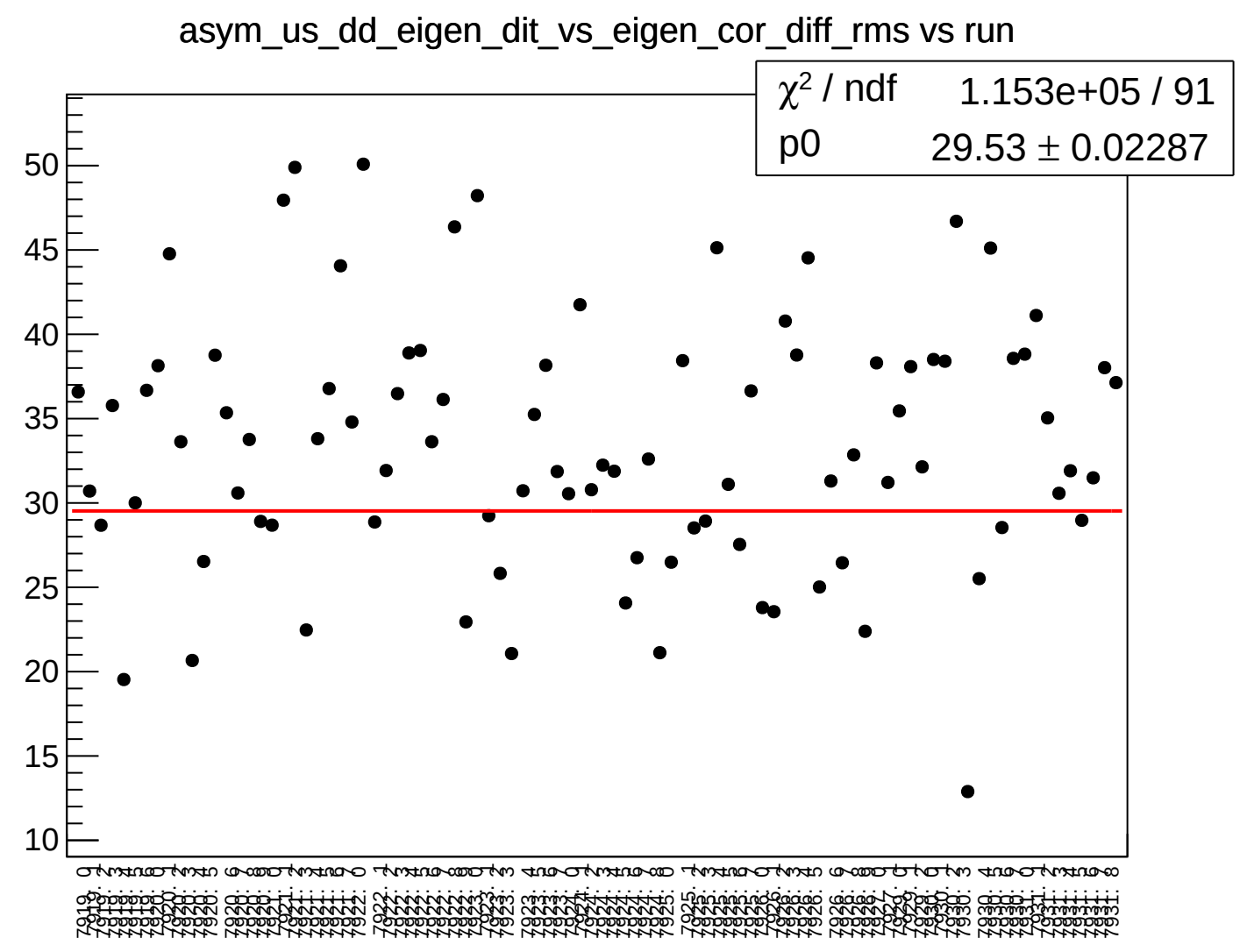

asym_us_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 113.3 / 91
p0 0.01575 ± 0.03234
pull
Entries 92
Mean 205.3
Std Dev 0

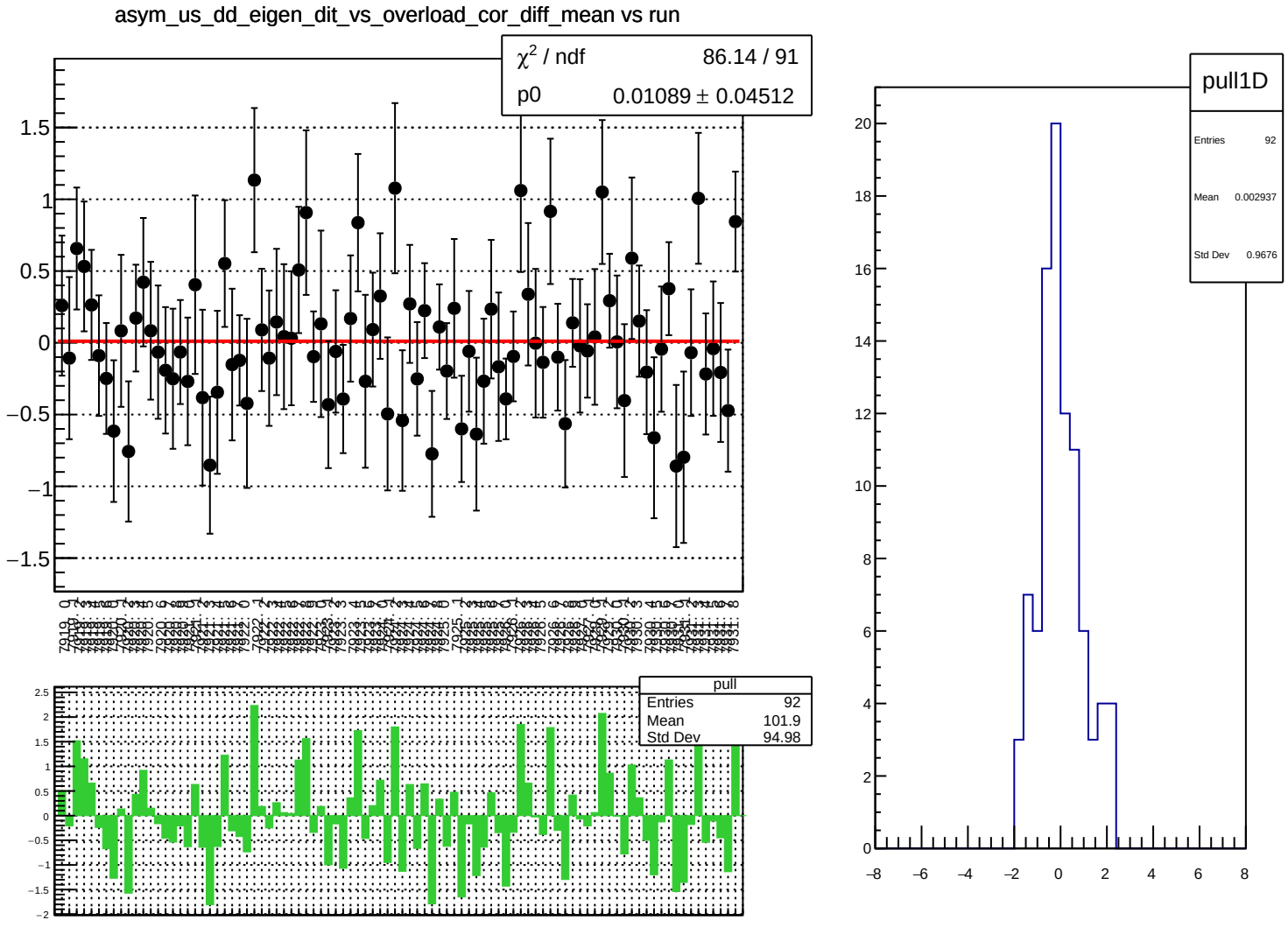

pull1D
Entries 92
Mean 0.03122
Std Dev 1.109

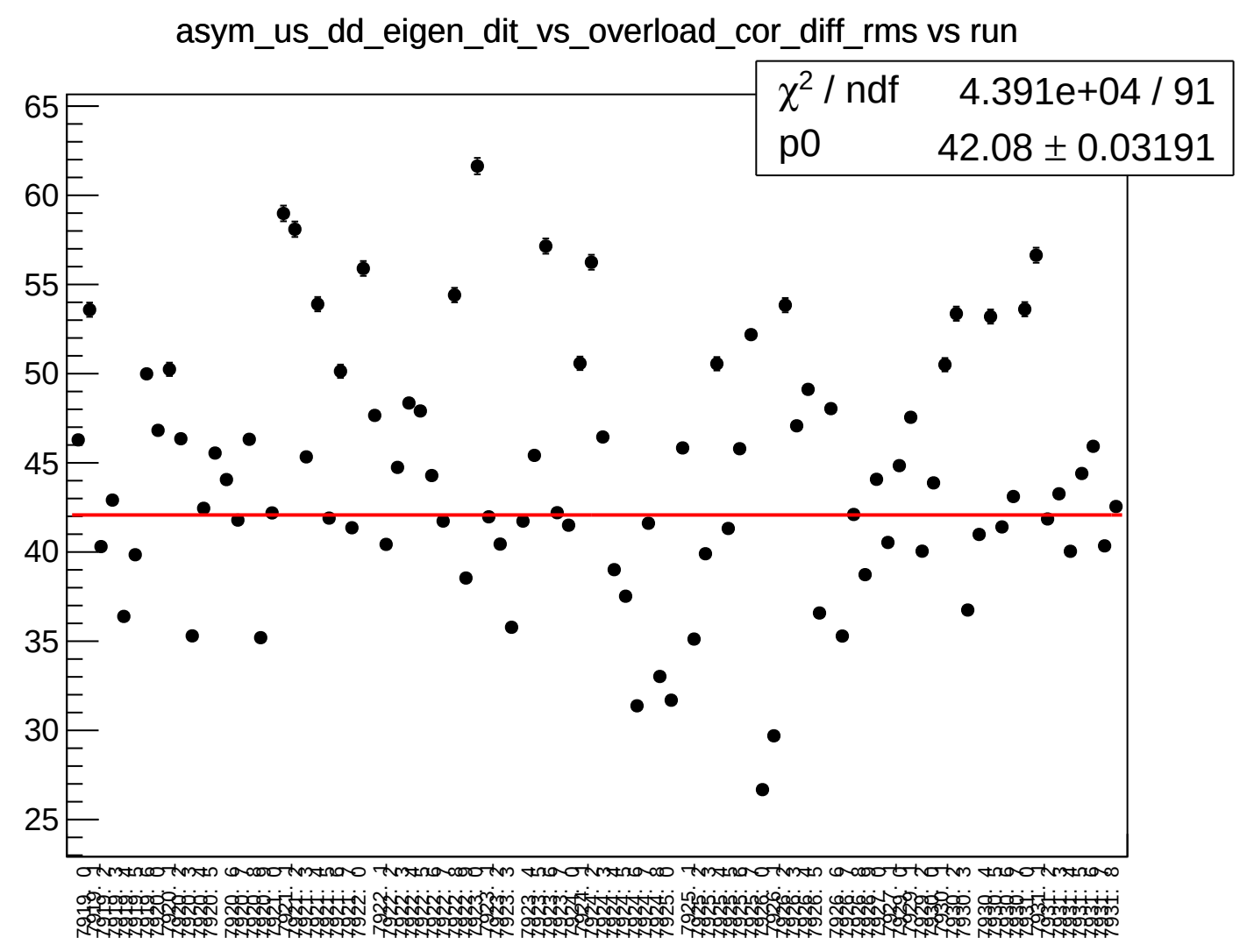

asym_us_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.153e+05 / 91
p0 29.53 ± 0.02287
50
45
40
35
30
25
20
15
10

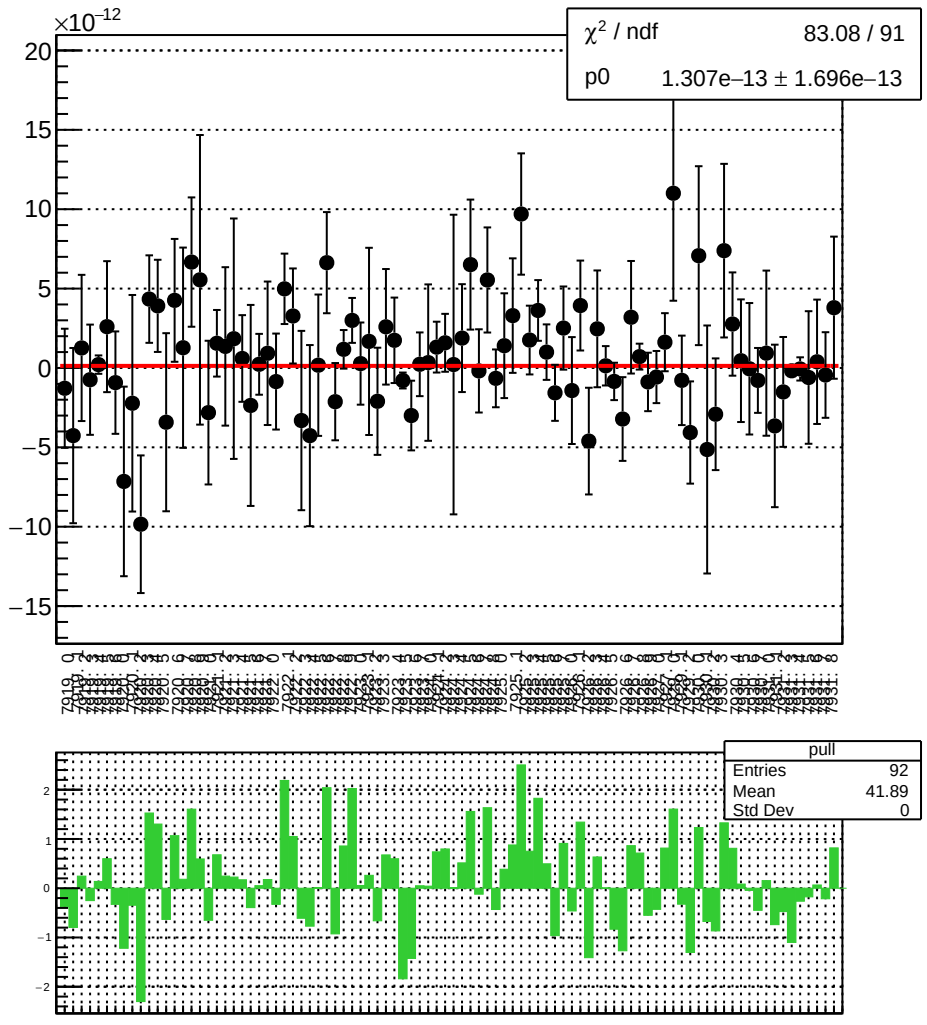

asym_us_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 113.3 / 91
p0 0.01575 ± 0.03234
pull
Entries 92
Mean 205.3
Std Dev 0

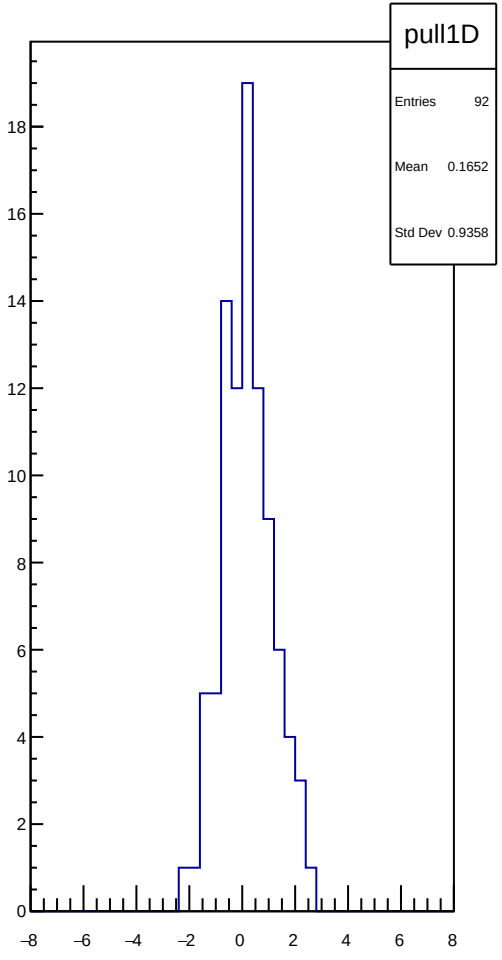

pull1D
Entries 92
Mean 0.03122
Std Dev 1.109

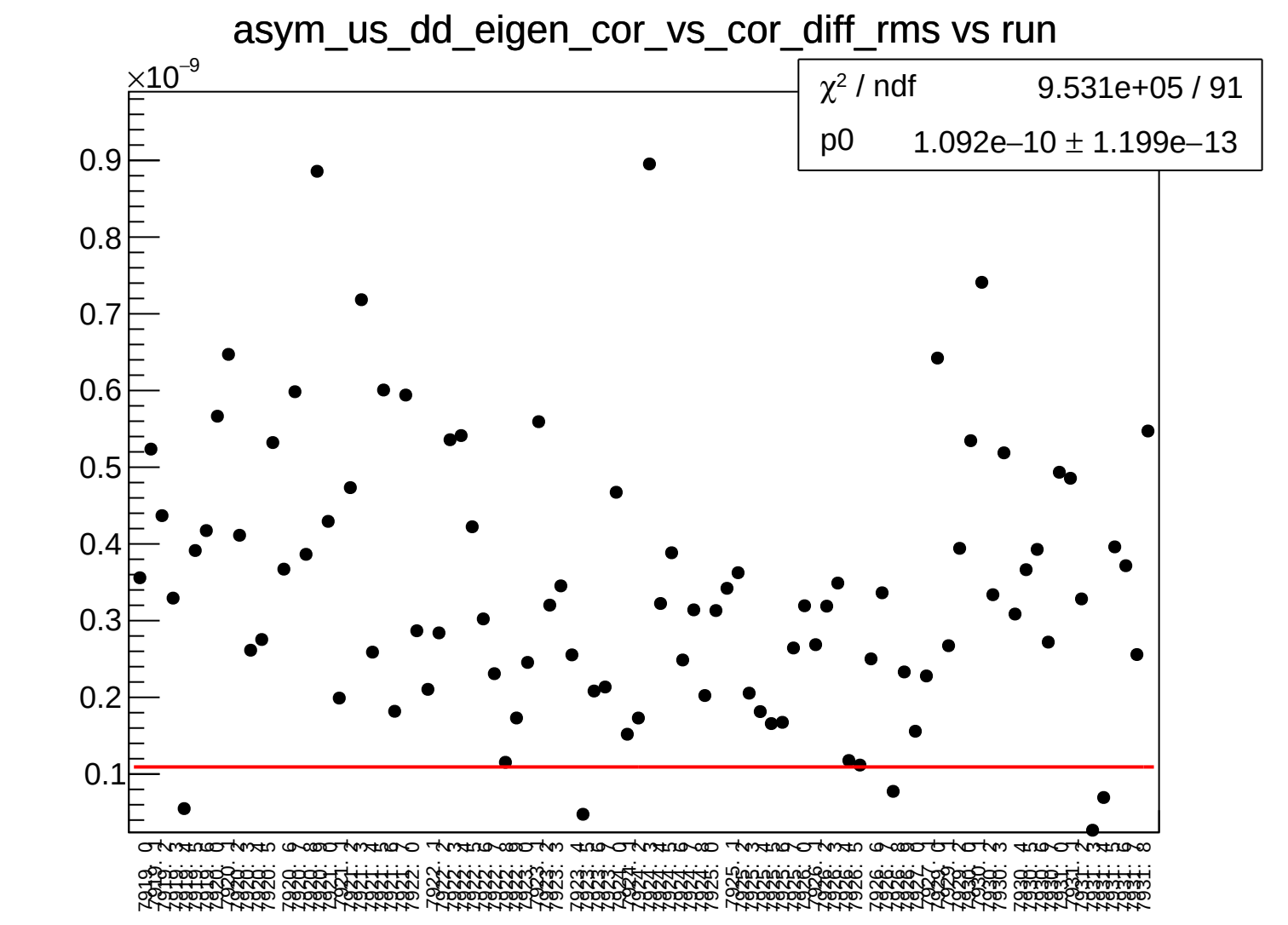

asym_us_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.153e+05 / 91
p0 29.53 ± 0.02287
50
45
40
35
30
25
20
15
10

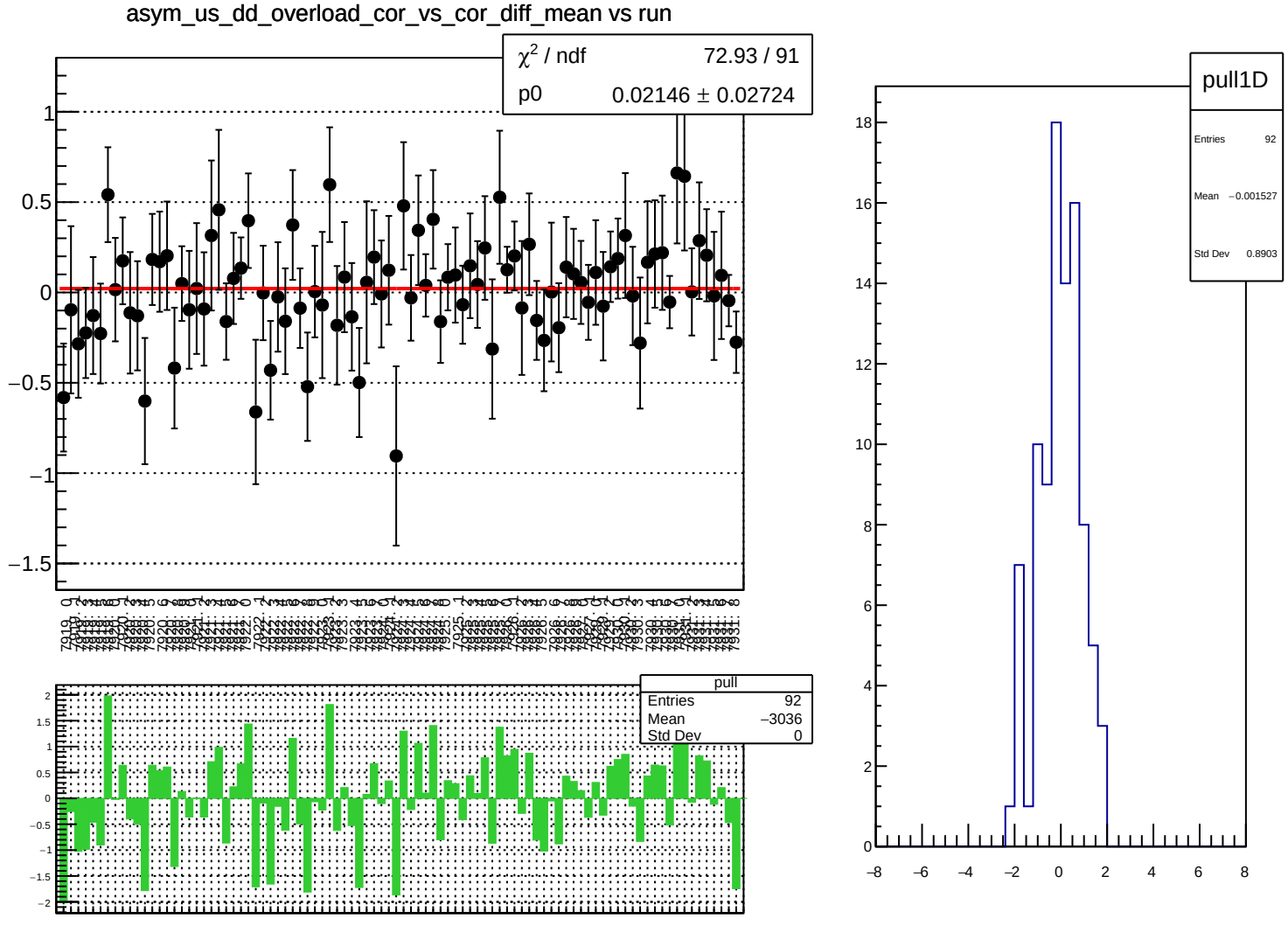

asym_us_dd_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 86.14 / 91
p0 0.01089 ± 0.04512
pull
Entries 92
Mean 101.9
Std Dev 94.98
pull1D
Entries 92
Mean 0.002937
Std Dev 0.9676

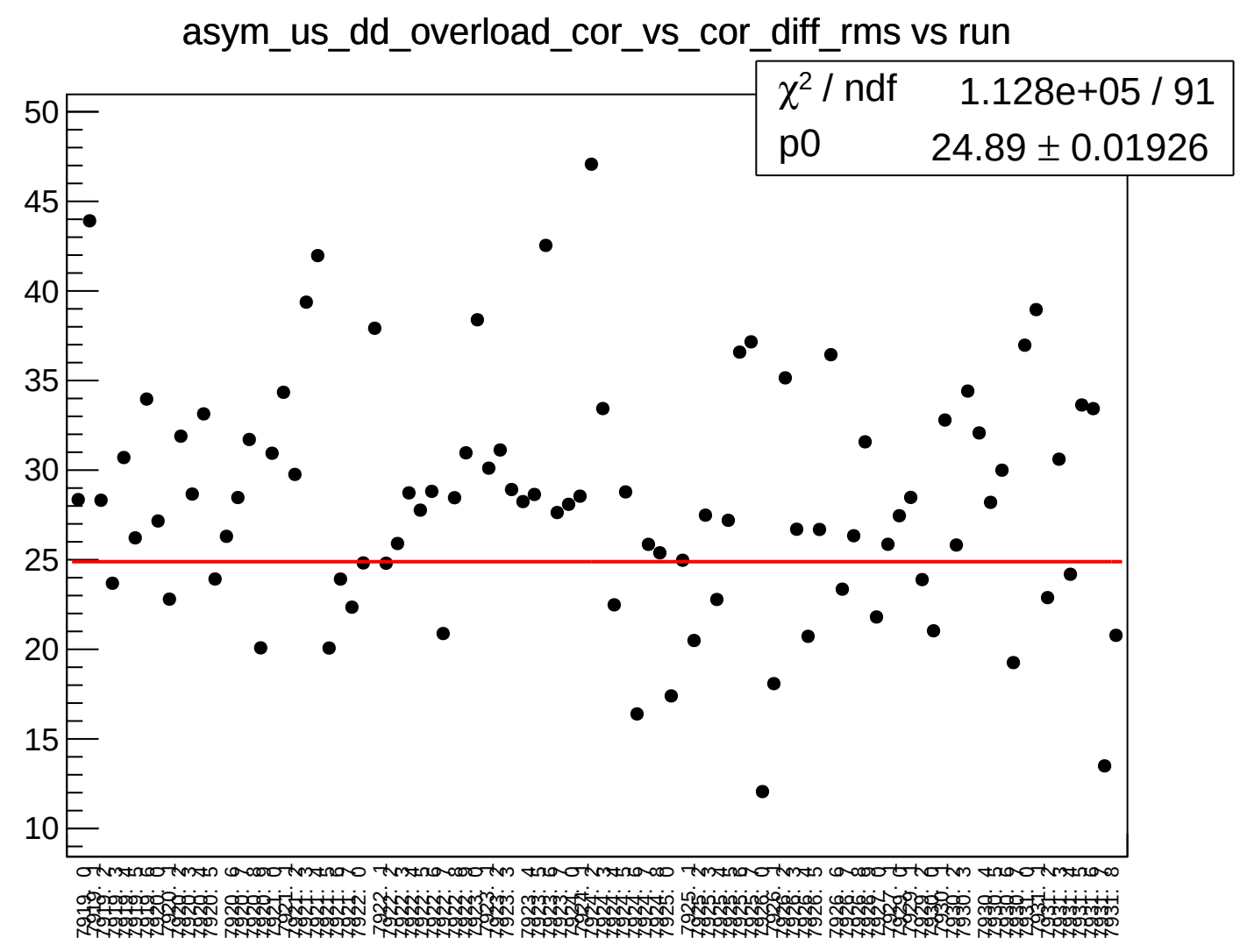

asym_us_dd_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 4.391e+04 / 91
p0 42.08 ± 0.03191
65
60
55
50
45
40
35
30
25

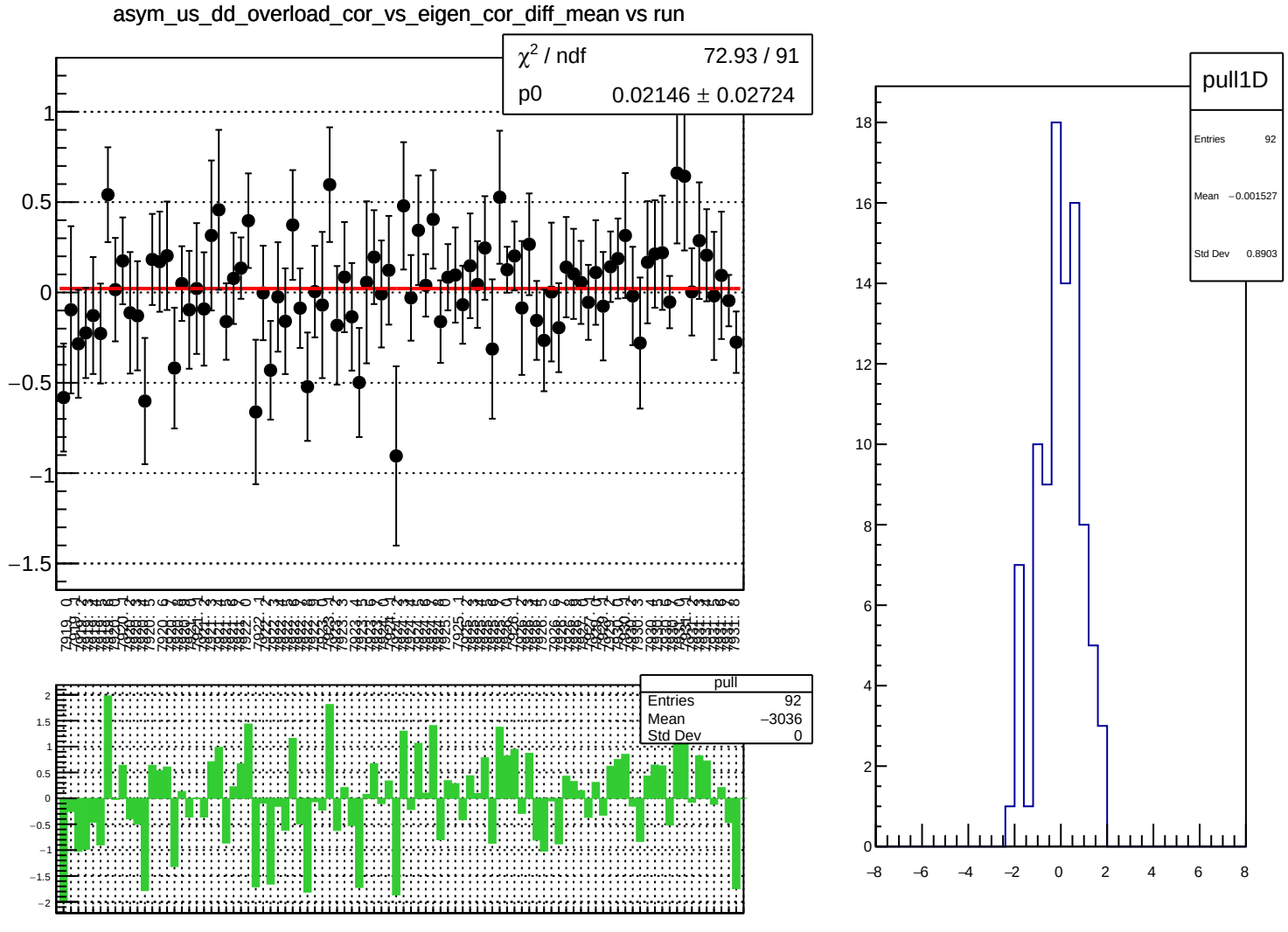

asym_us_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.08 / 91
p0 1.307e−13 ± 1.696e−13
pull
Entries 92
Mean 41.89
Std Dev 0

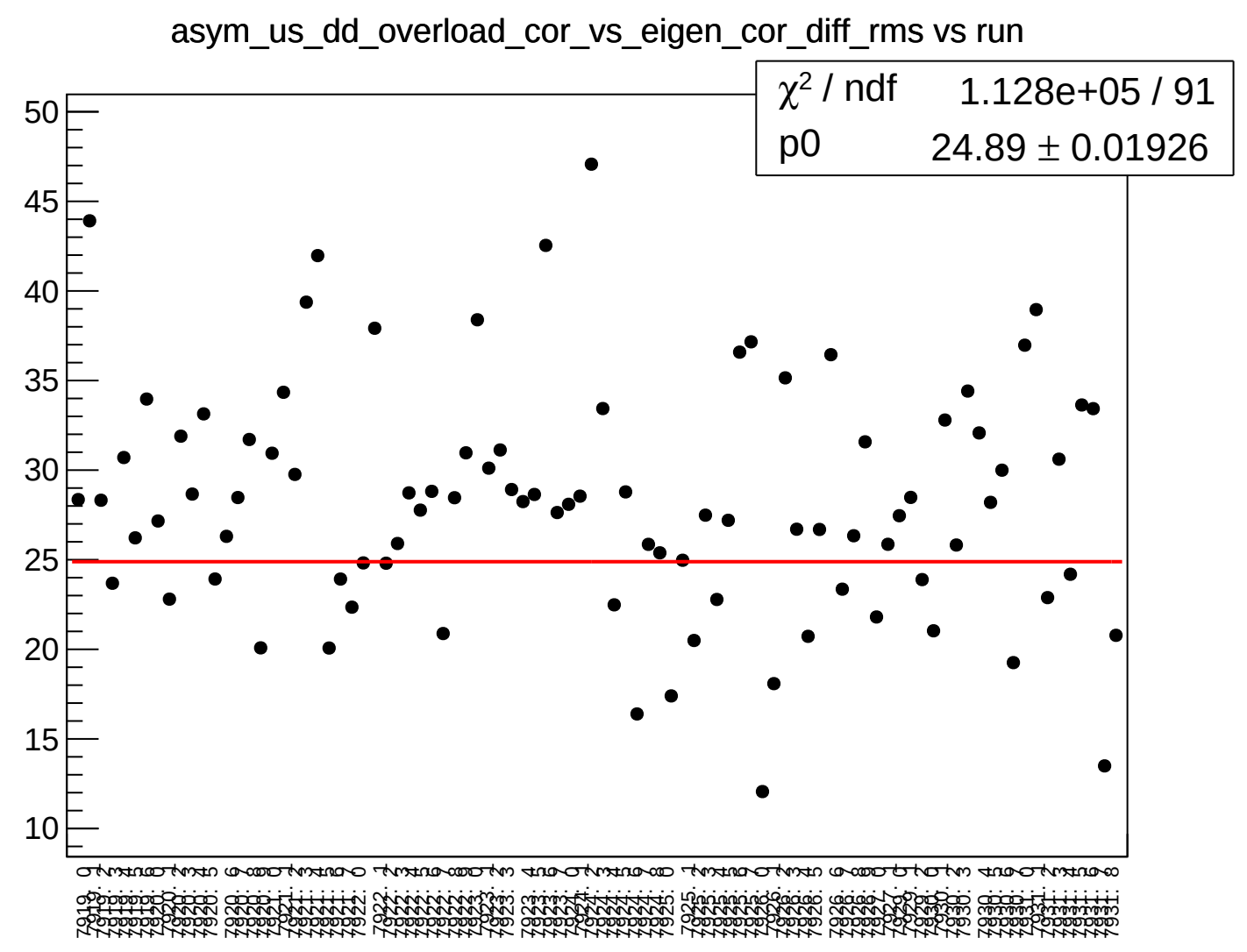

pull1D
Entries 92
Mean 0.1652
Std Dev 0.9358

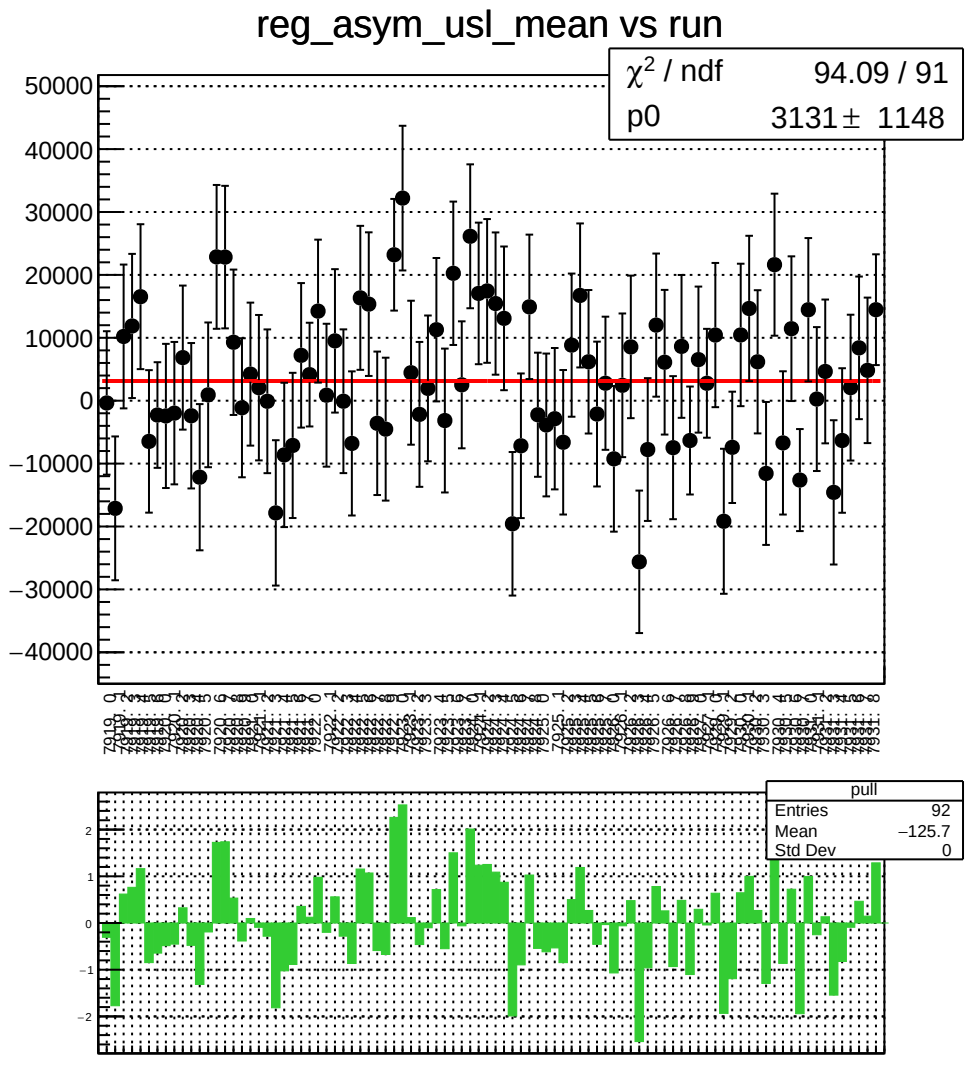

asym_us_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.531e+05 / 91
p0 1.092e−10 ± 1.199e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

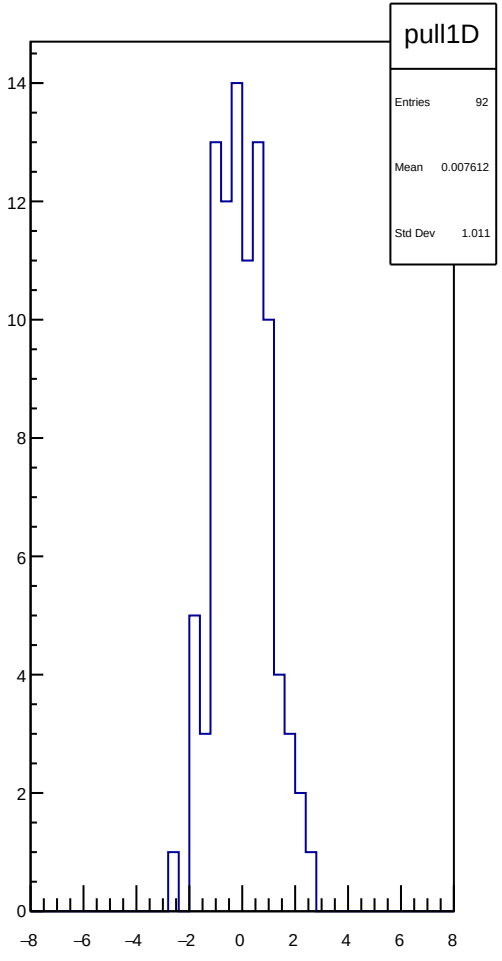

asym_us_dd_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 72.93 / 91
p0 0.02146 ± 0.02724
pull
Entries 92
Mean −3036
Std Dev 0
pull1D
Entries 92
Mean −0.001527
Std Dev 0.8903

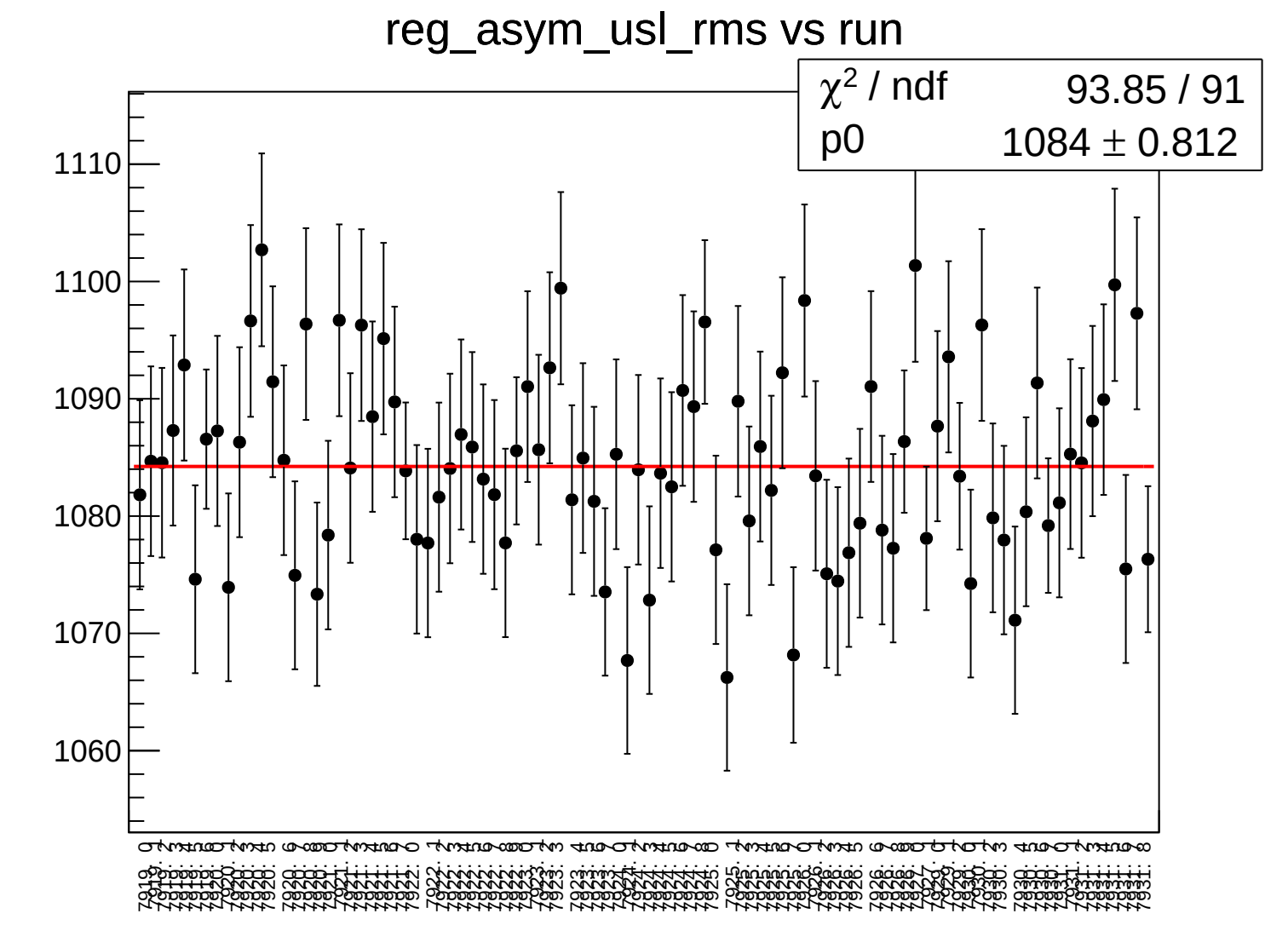

asym_us_dd_overload_cor_vs_cor_diff_rms vs run
χ^2 / ndf 1.128e+05 / 91
p0 24.89 ± 0.01926
50
45
40
35
30
25
20
15
10

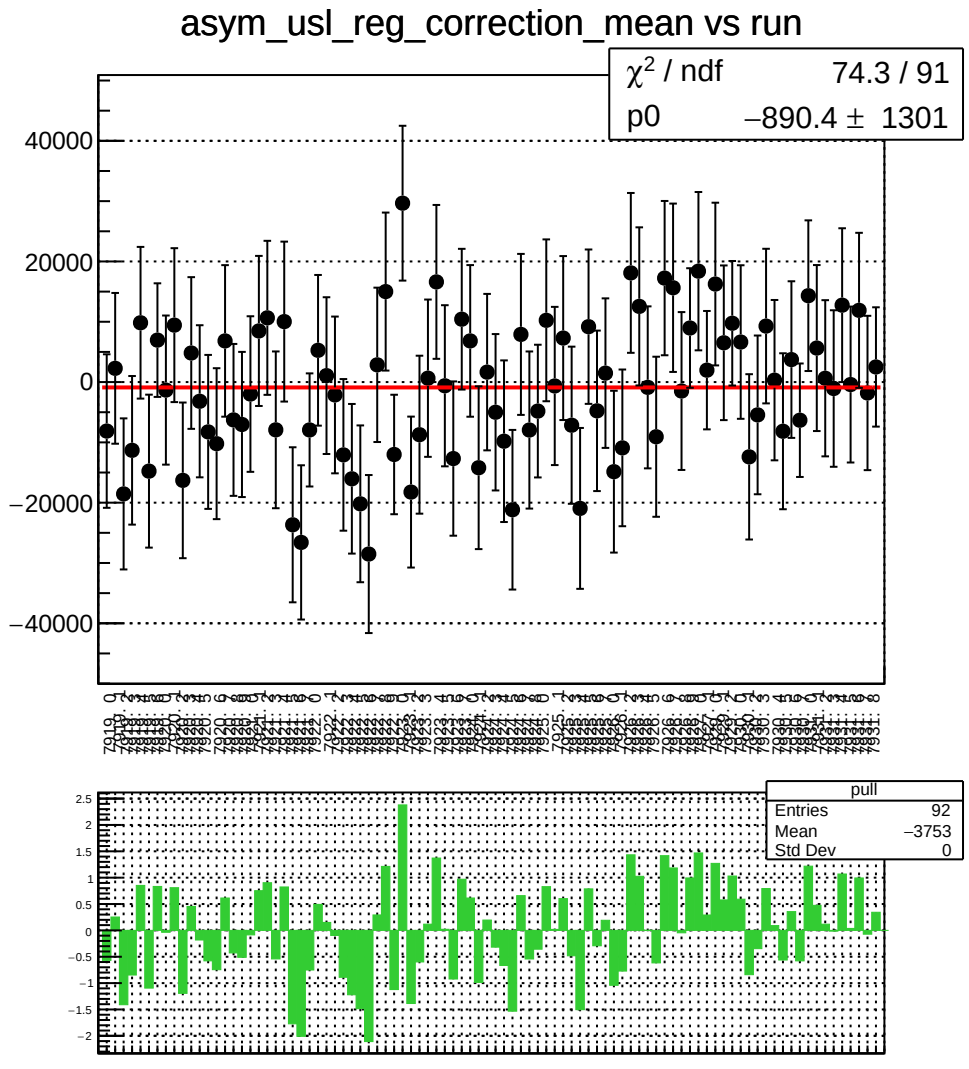

asym_us_dd_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.93 / 91
p0 0.02146 ± 0.02724
pull
Entries 92
Mean −3036
Std Dev 0
pull1D
Entries 92
Mean −0.001527
Std Dev 0.8903

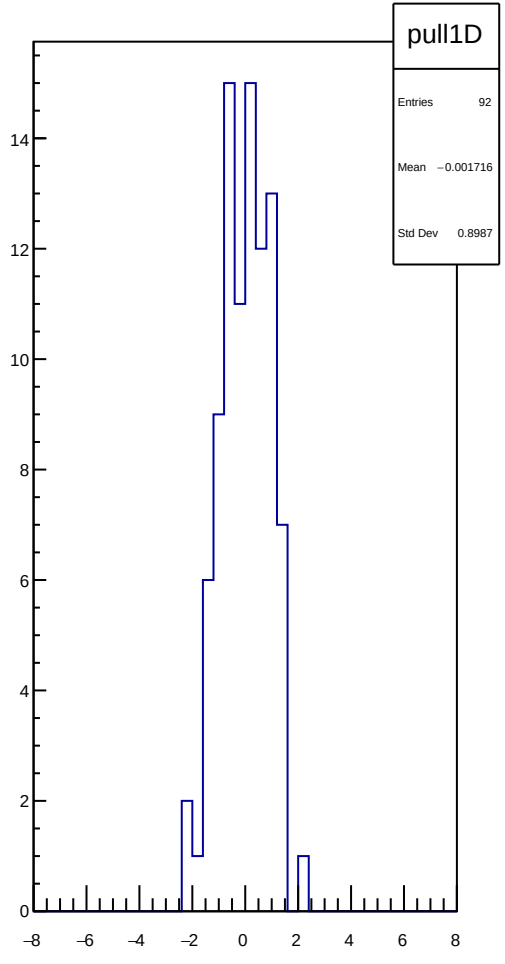

asym_us_dd_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.128e+05 / 91
p0 24.89 ± 0.01926
50
45
40
35
30
25
20
15
10

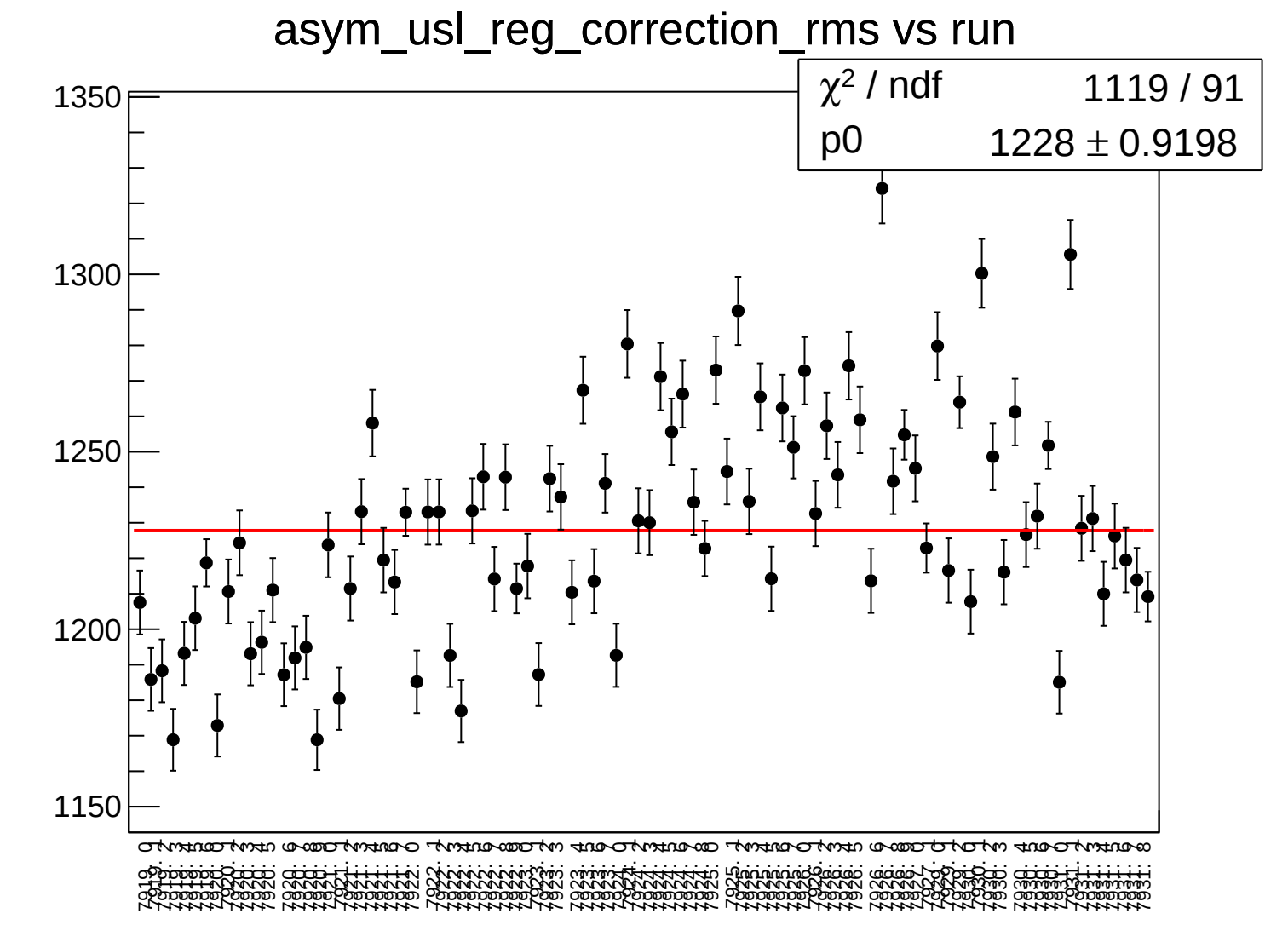

reg_asym_usl_mean vs run
χ² / ndf 94.09 / 91
p0 3131 ± 1148
pull
Entries 92
Mean −125.7
Std Dev 0

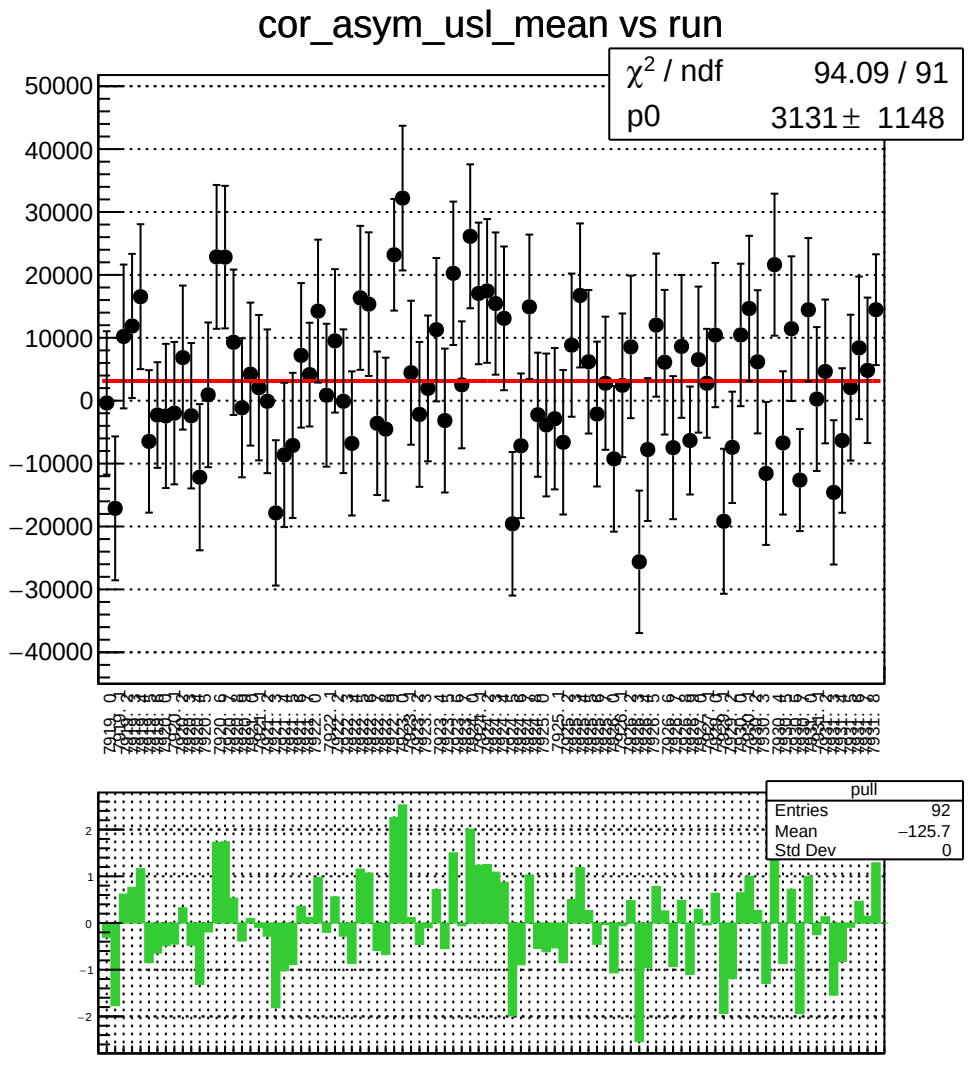

pull1D
Entries 92
Mean 0.007612
Std Dev 1.011

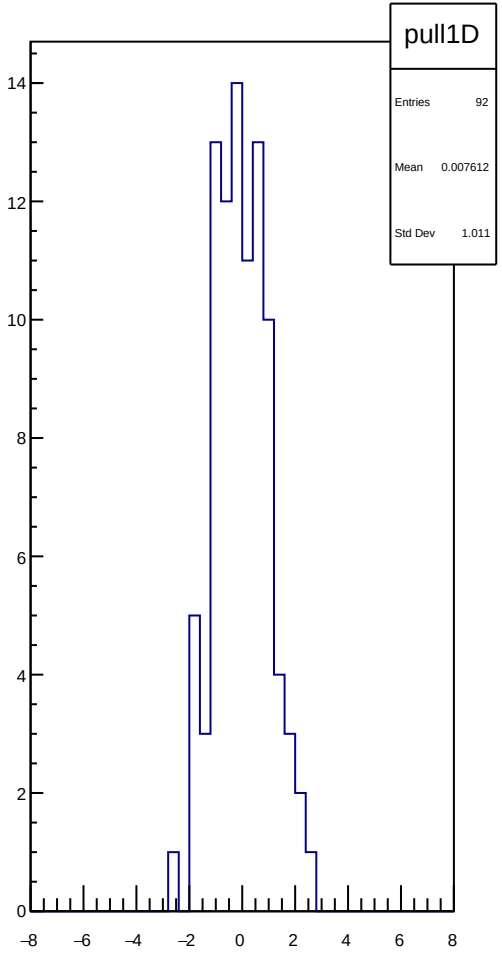

reg_asym_usl_rms vs run
χ^2 / ndf 93.85 / 91
p0 1084 ± 0.812
1110
1100
1090
1080
1070
1060

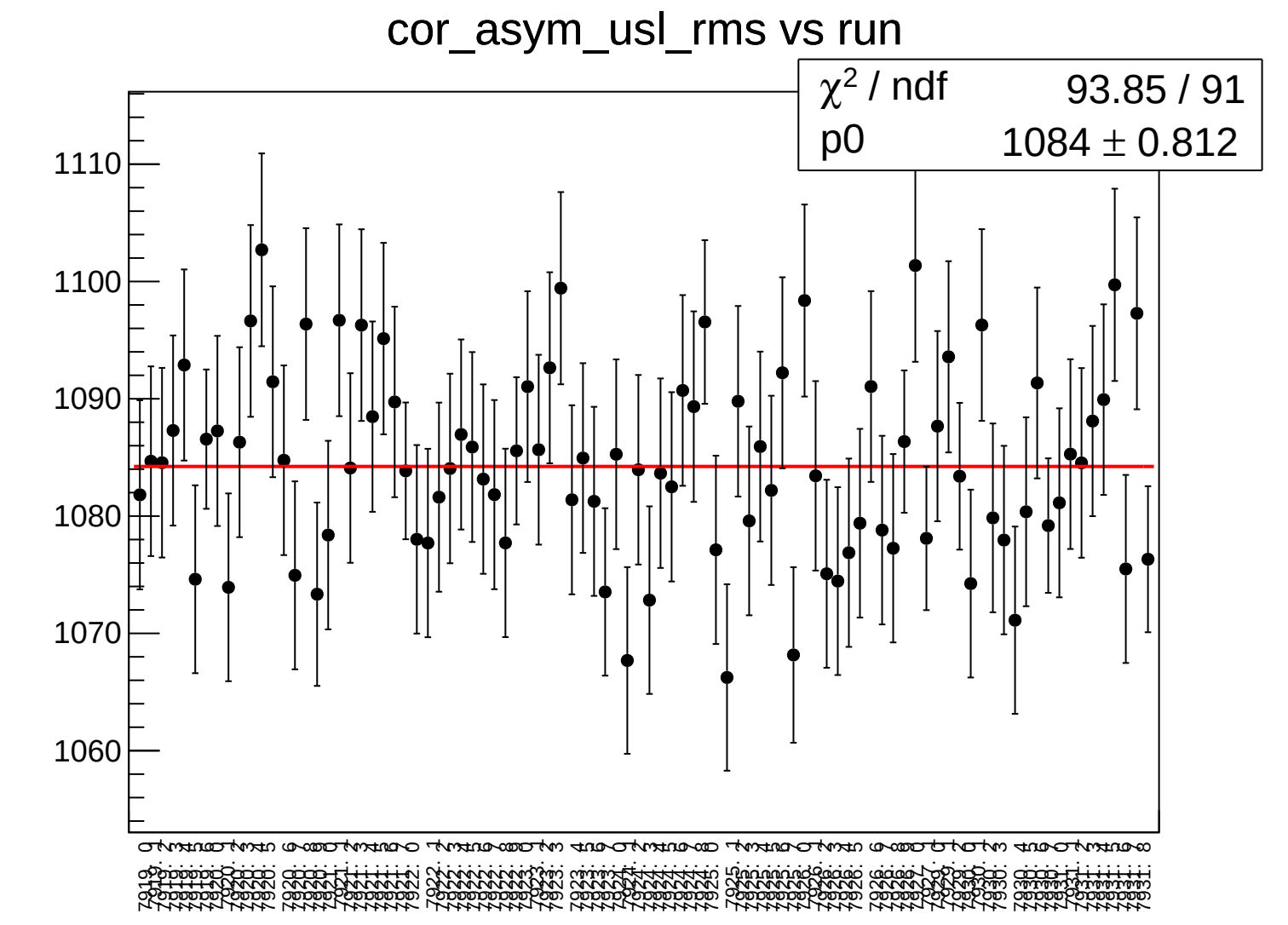

asym_usl_reg_correction_mean vs run
χ² / ndf 74.3 / 91
p0 −890.4 ± 1301
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −3753
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

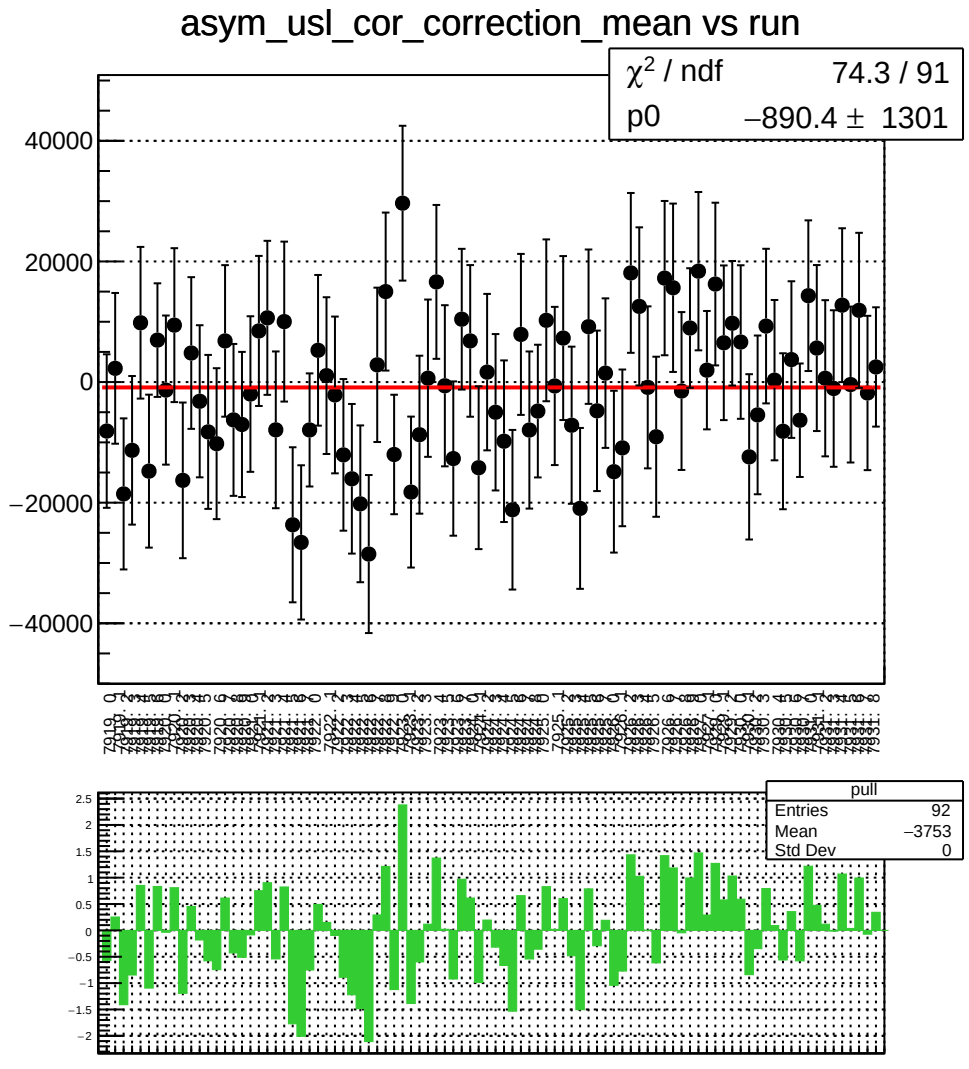

pull1D
Entries 92
Mean −0.001716
Std Dev 0.8987
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

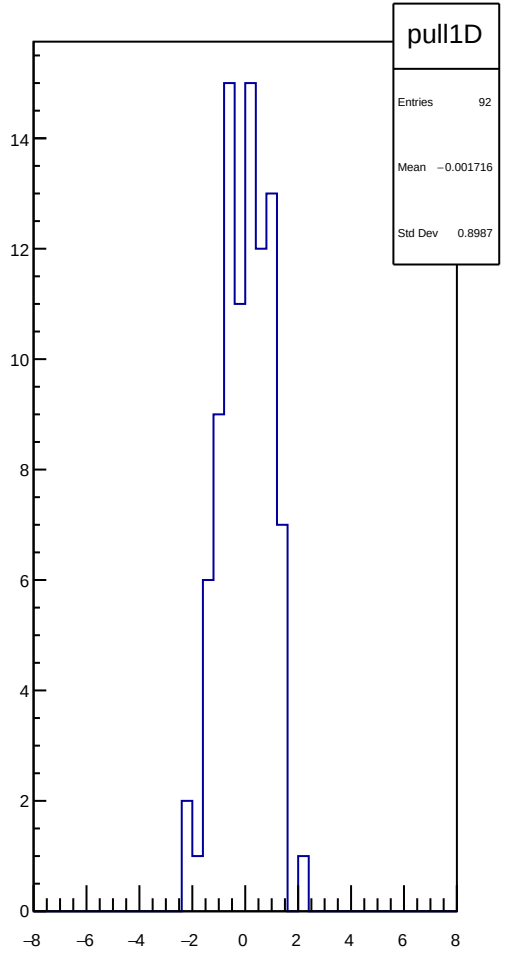

asym_usl_reg_correction_rms vs run
χ² / ndf 1119 / 91
p0 1228 ± 0.9198
1350
1300
1250
1200
1150

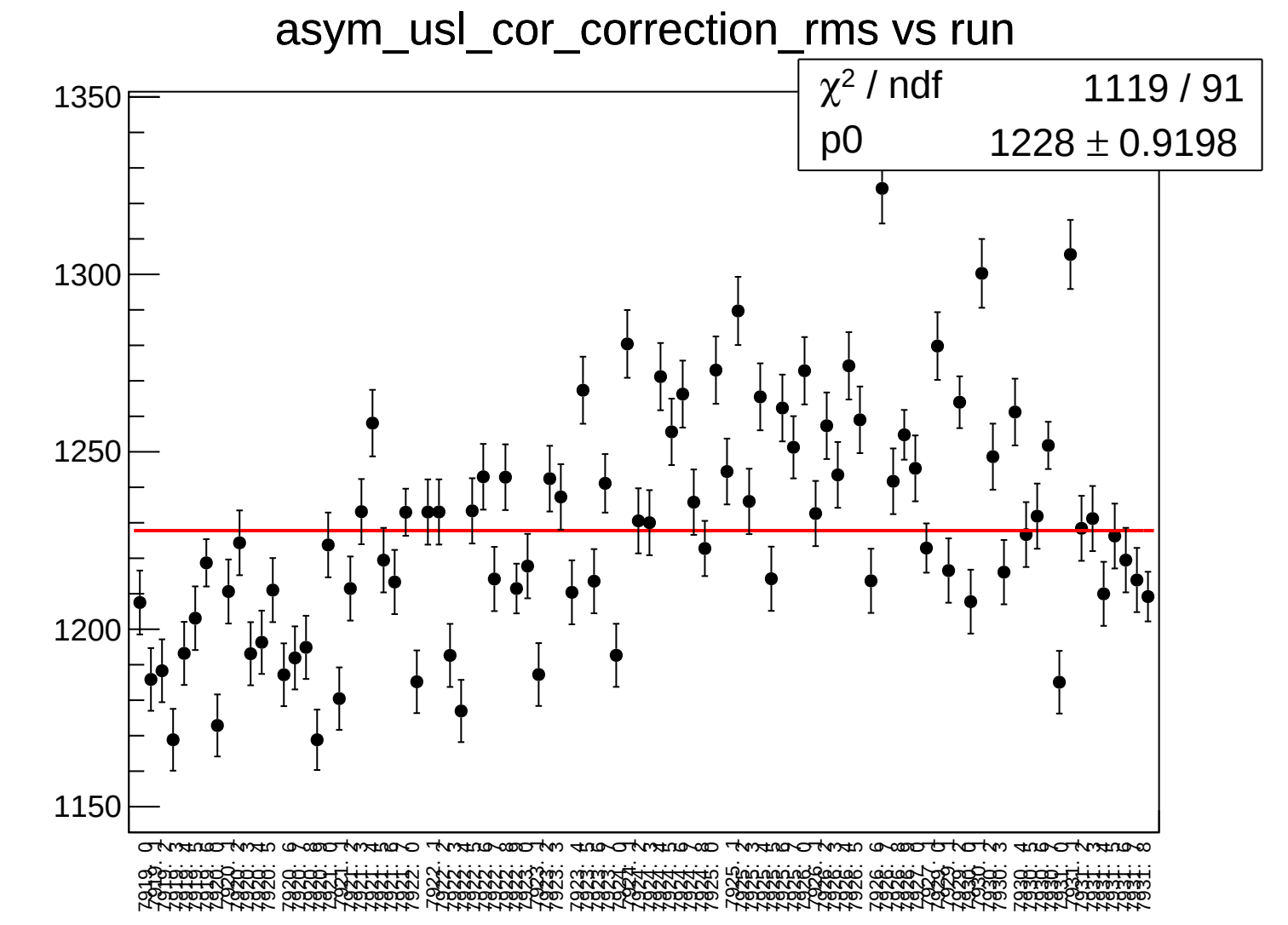

cor_asym_usl_mean vs run
χ² / ndf 94.09 / 91
p0 3131 ± 1148
pull
Entries 92
Mean −125.7
Std Dev 0

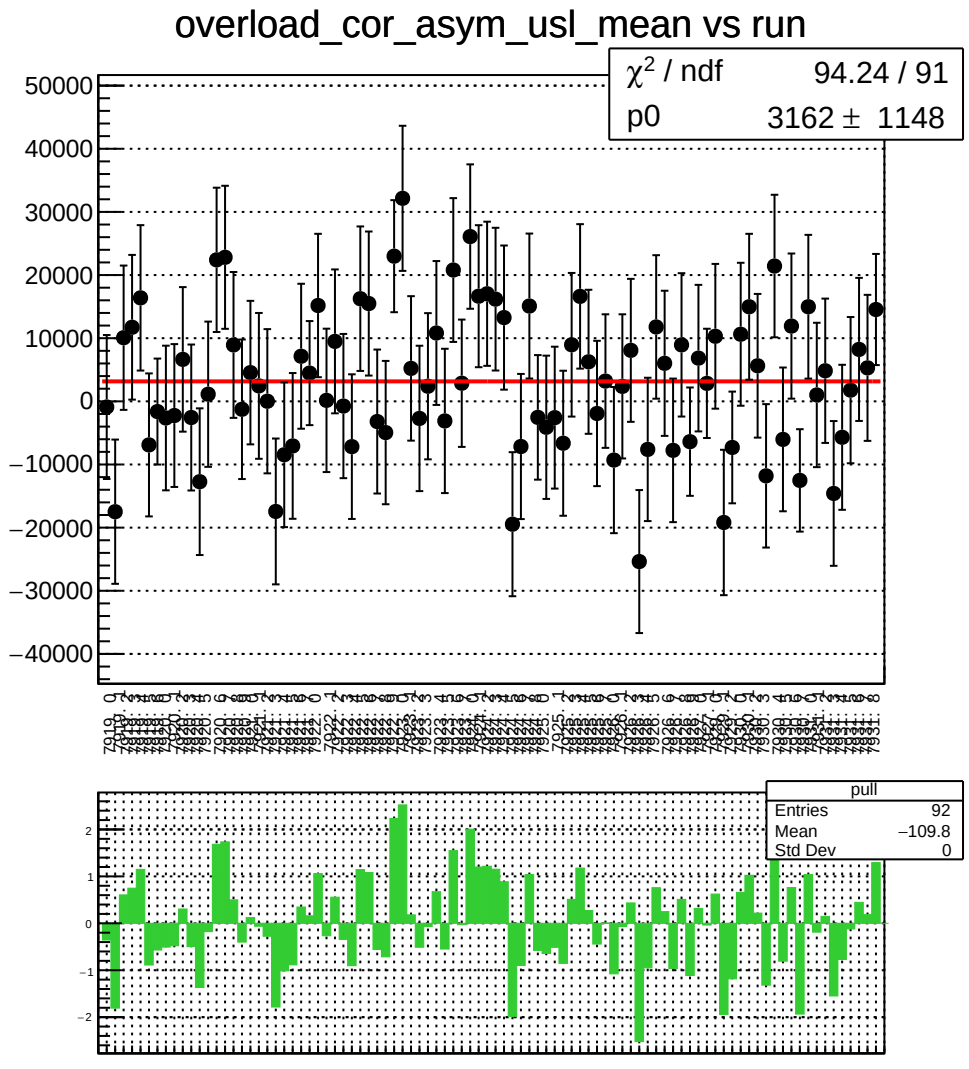

pull1D
Entries 92
Mean 0.007612
Std Dev 1.011

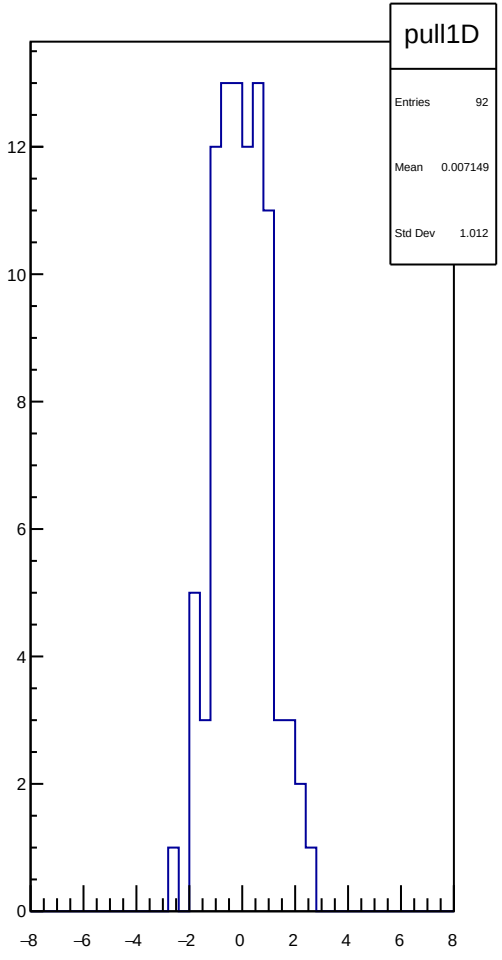

cor_asym_usl_rms vs run
χ^2 / ndf 93.85 / 91
p0 1084 ± 0.812
1110
1100
1090
1080
1070
1060

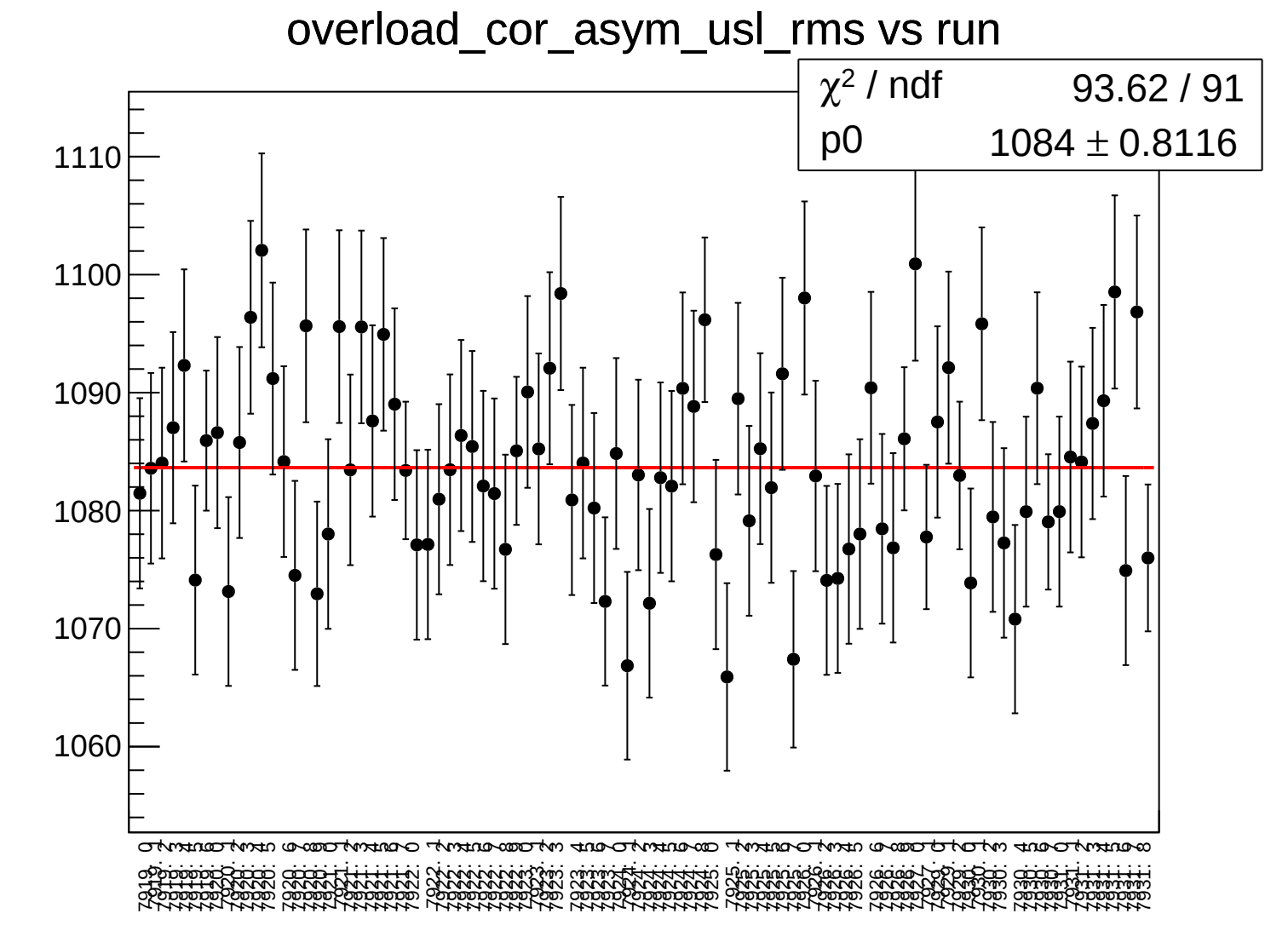

asym_usl_cor_correction_mean vs run
χ² / ndf 74.3 / 91
p0 −890.4 ± 1301
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −3753
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

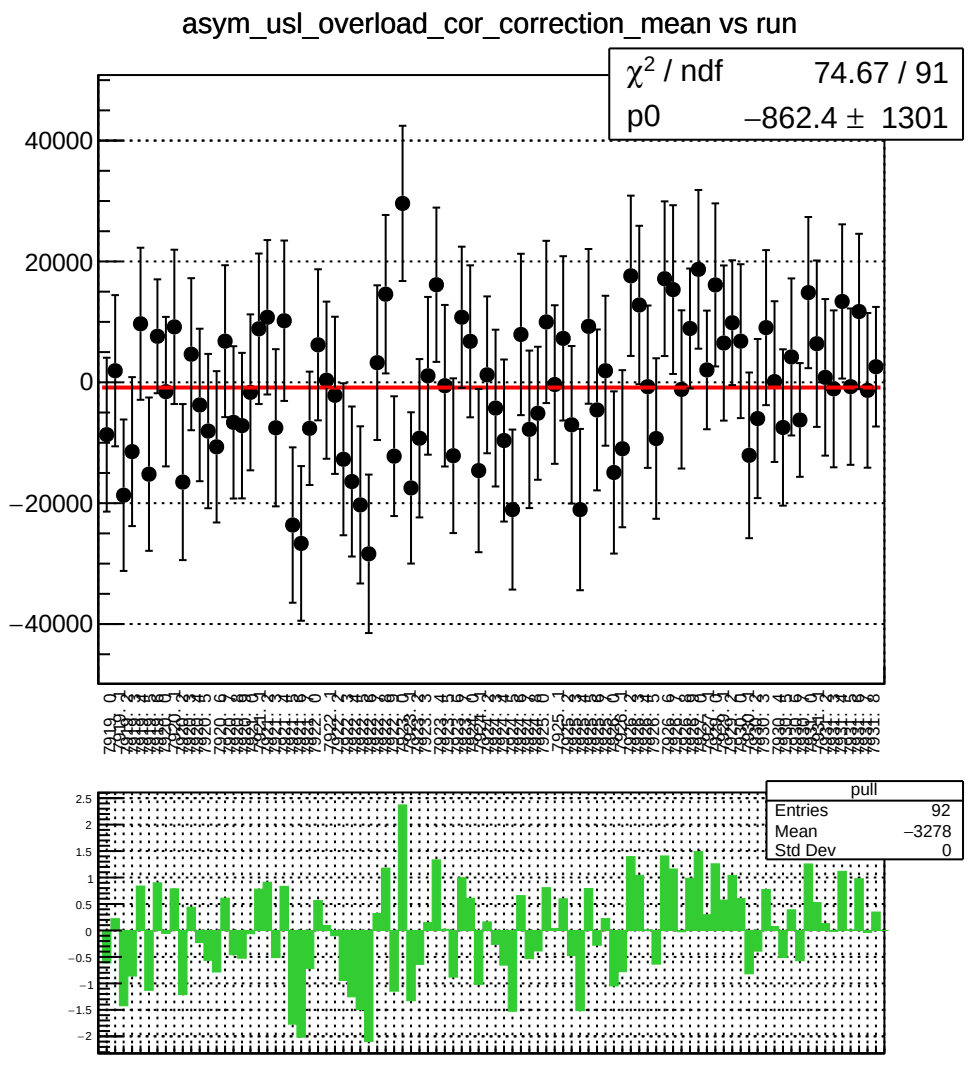

pull1D
Entries 92
Mean −0.001716
Std Dev 0.8987
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

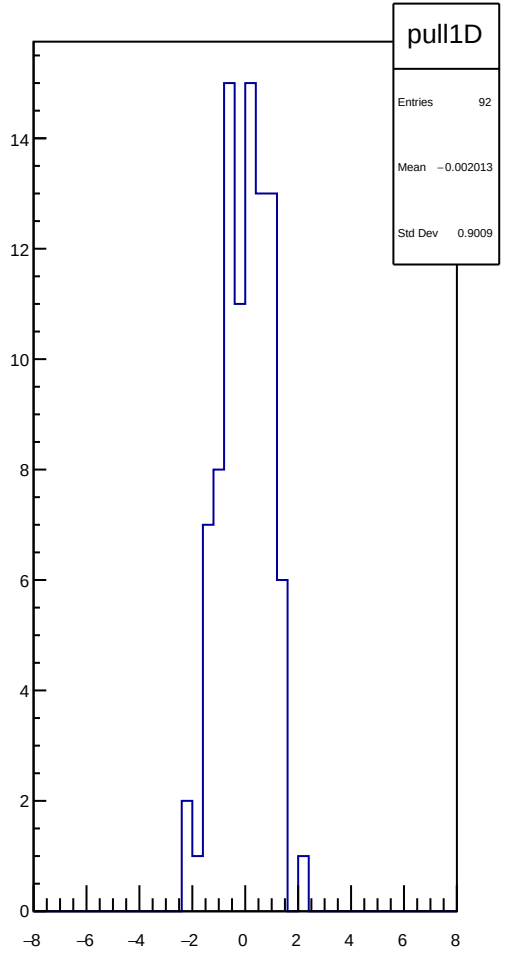

asym_usl_cor_correction_rms vs run
χ² / ndf 1119 / 91
p0 1228 ± 0.9198
1350
1300
1250
1200
1150

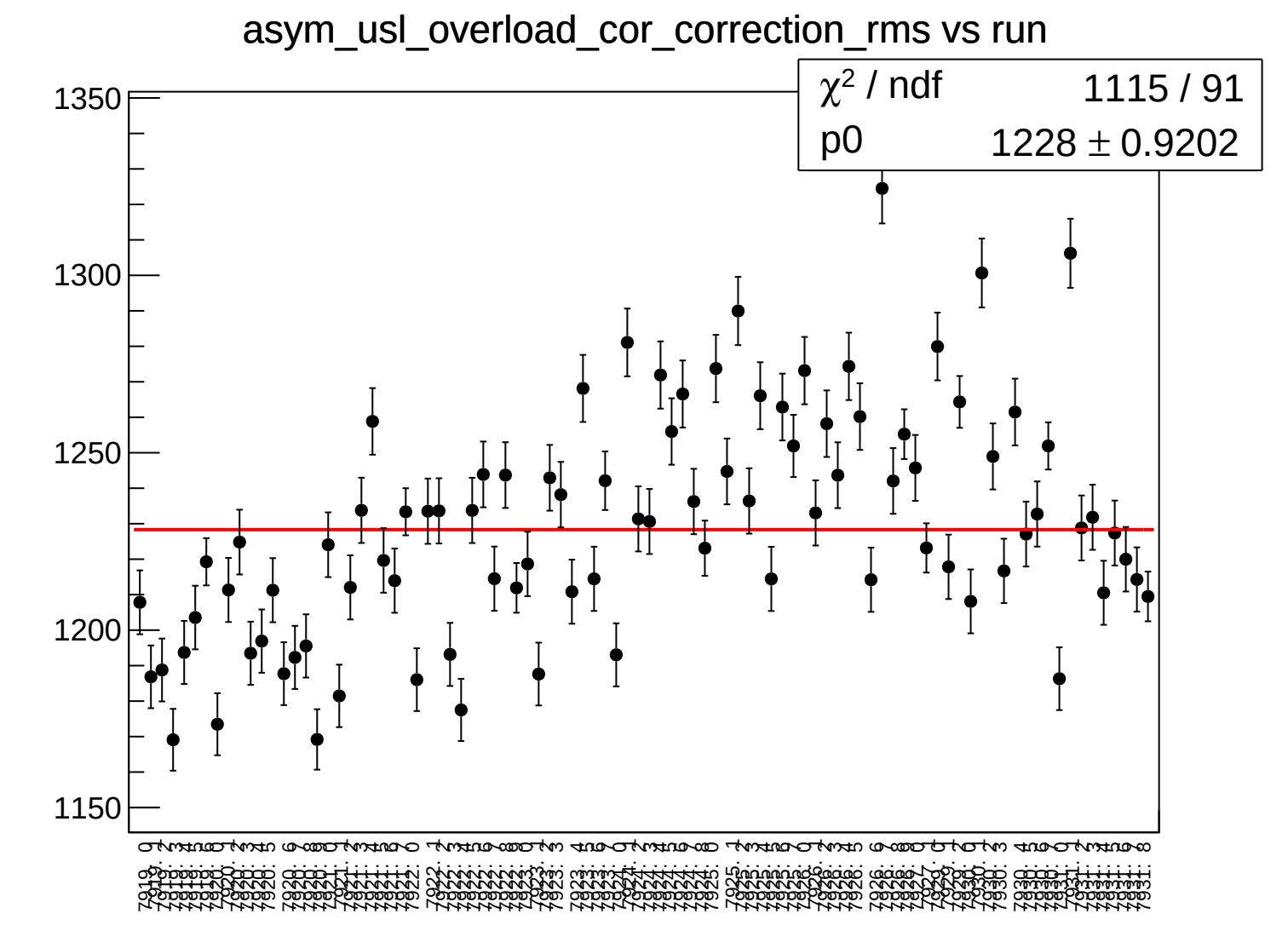

overload_cor_asym_usl_mean vs run
χ² / ndf 94.24 / 91
p0 3162 ± 1148
pull
Entries 92
Mean −109.8
Std Dev 0

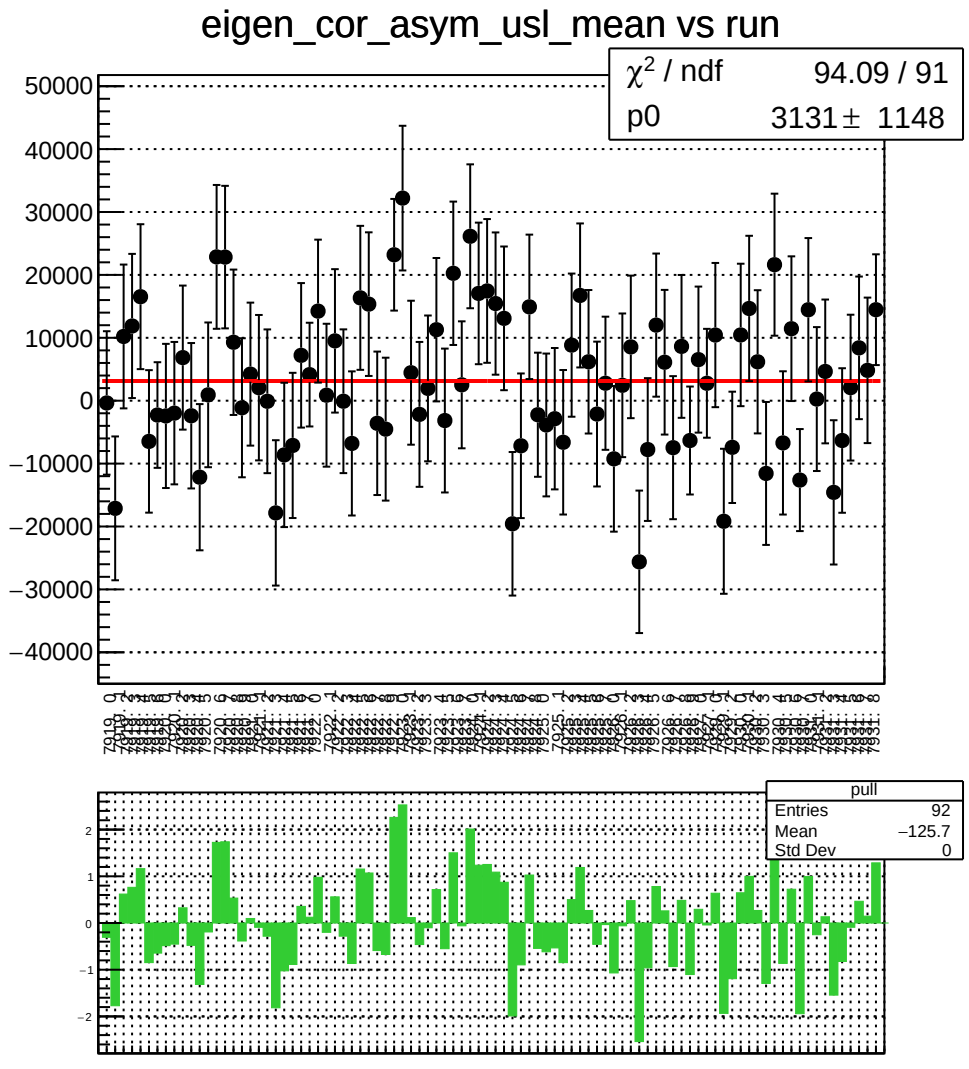

pull1D
Entries 92
Mean 0.007149
Std Dev 1.012

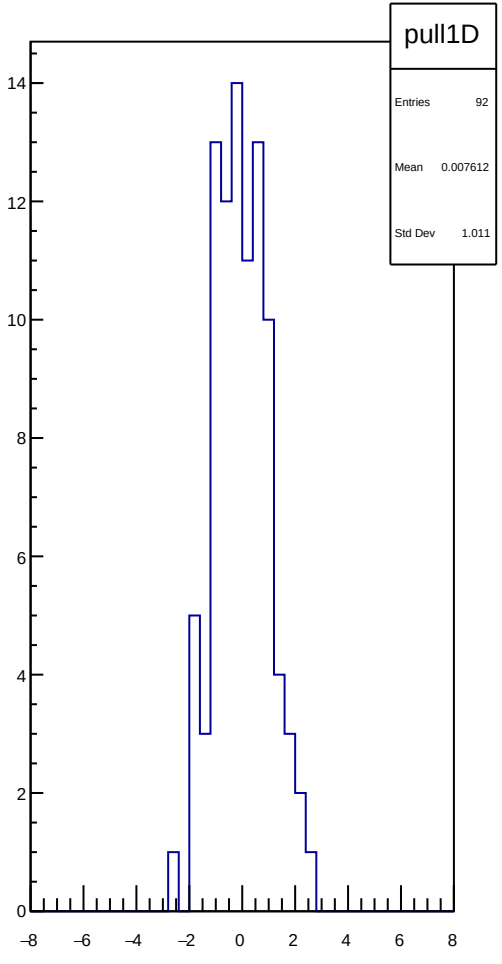

overload_cor_asym_usl_rms vs run
χ² / ndf 93.62 / 91
p0 1084 ± 0.8116
1110
1100
1090
1080
1070
1060

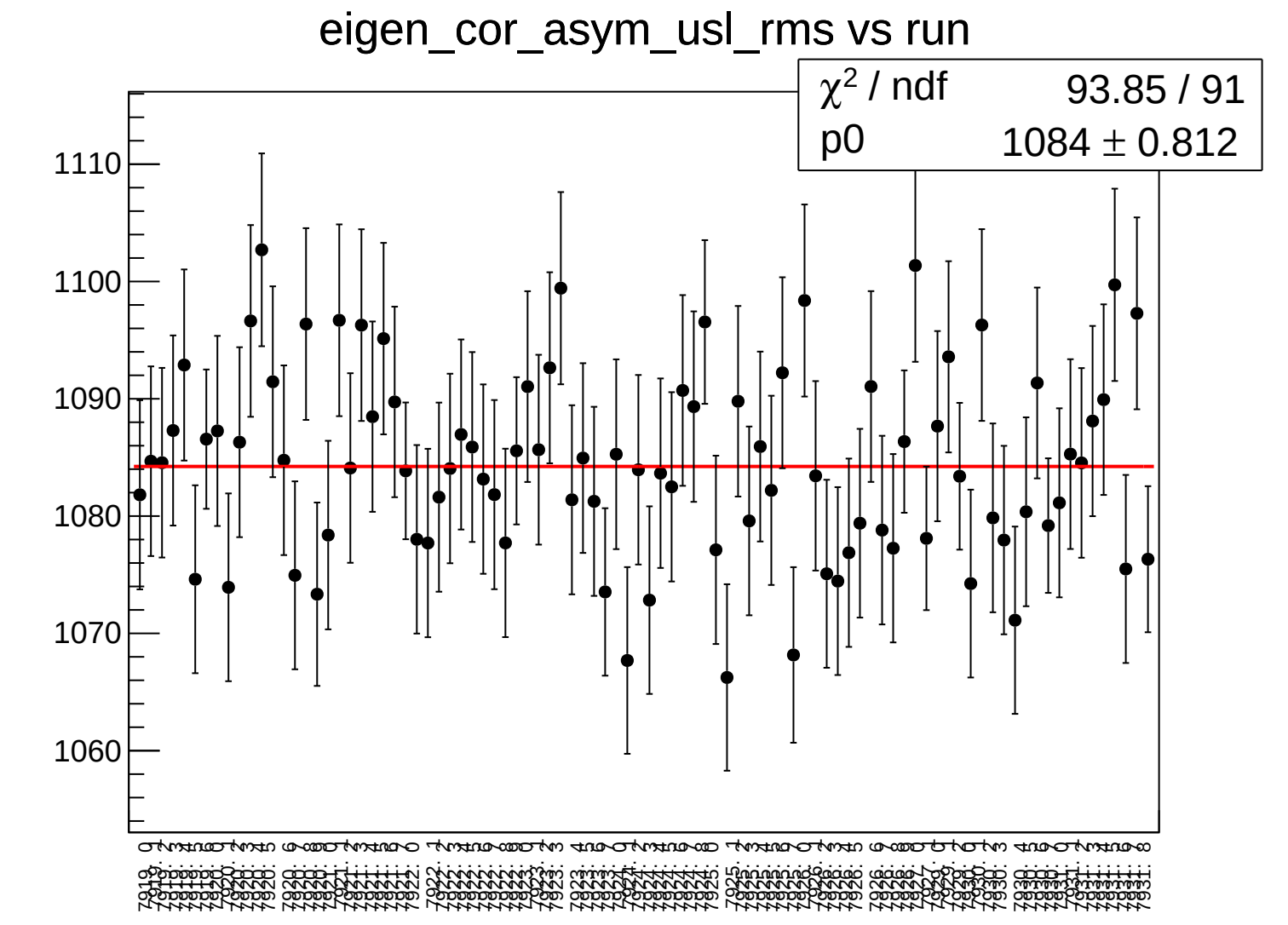

asym_usl_overload_cor_correction_mean vs run
χ² / ndf 74.67 / 91
p0 −862.4 ± 1301
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −3278
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

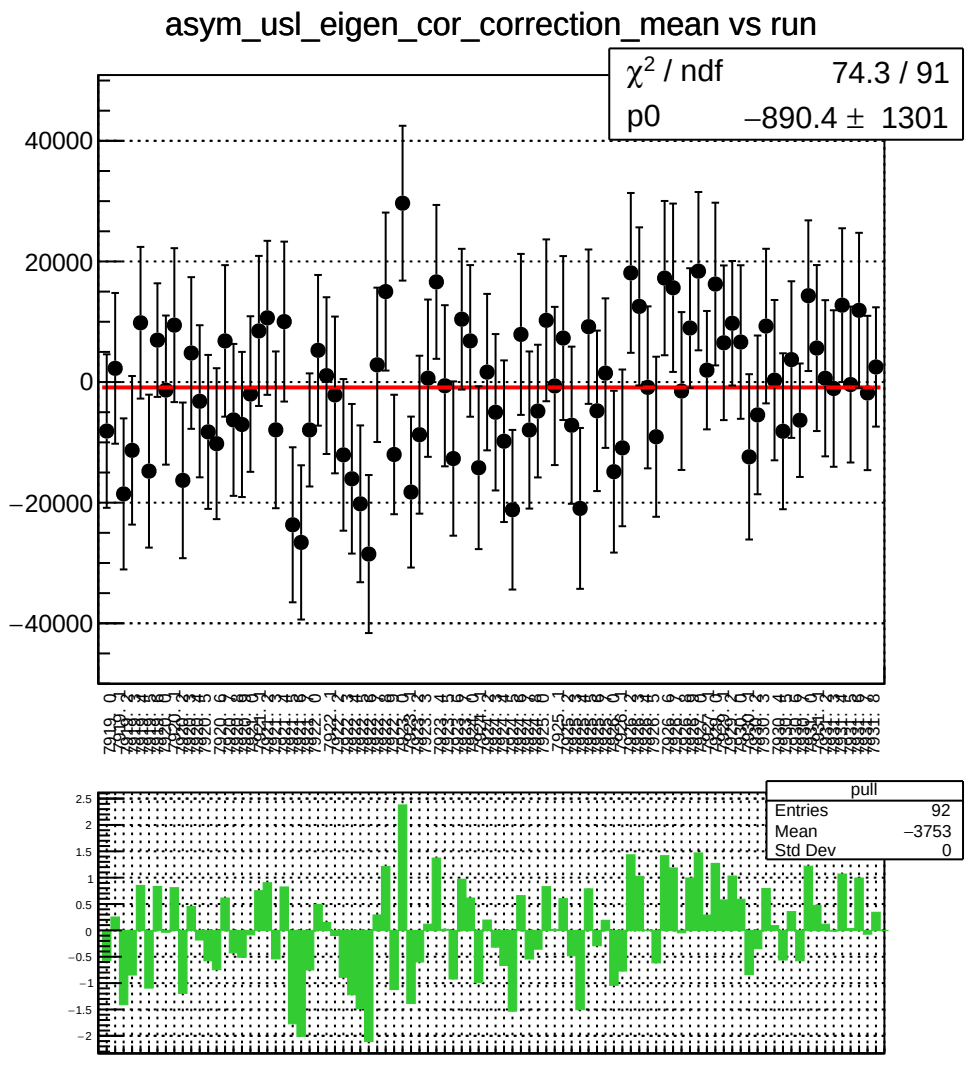

pull1D
Entries 92
Mean −0.002013
Std Dev 0.9009
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

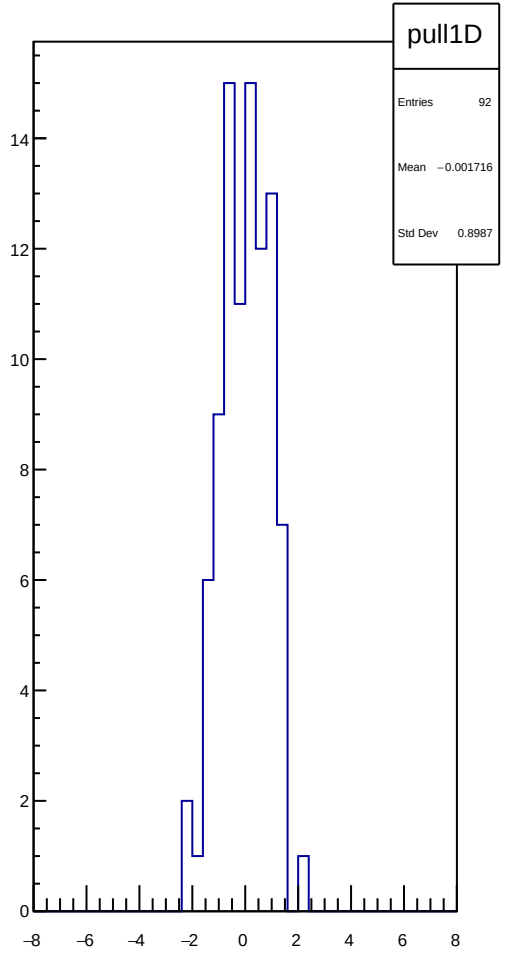

asym_usl_overload_cor_correction_rms vs run
χ^2 / ndf 1115 / 91
p0 1228 ± 0.9202
1350
1300
1250
1200
1150

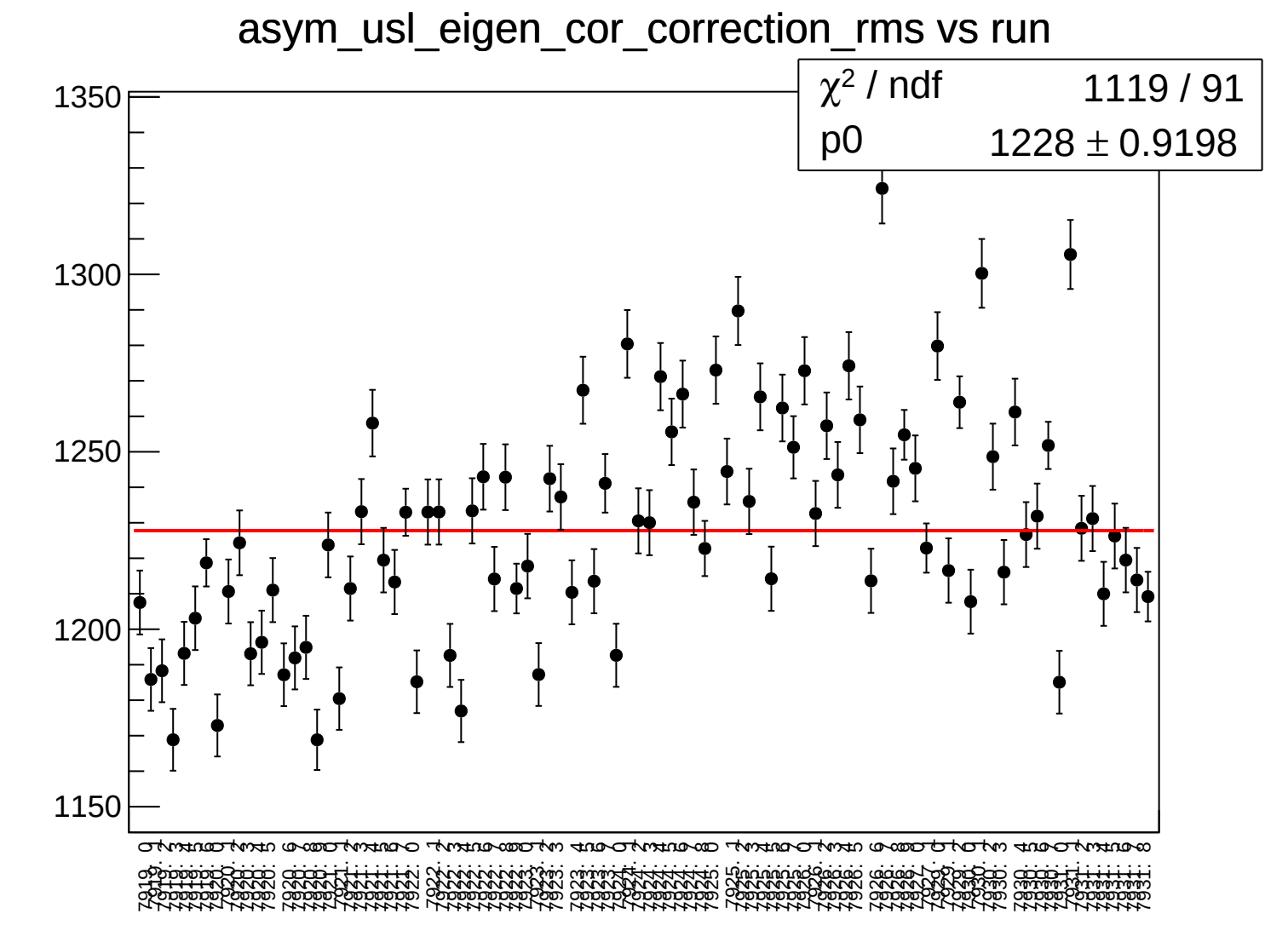

eigen_cor_asym_usl_mean vs run
χ² / ndf 94.09 / 91
p0 3131 ± 1148
pull
Entries 92
Mean −125.7
Std Dev 0

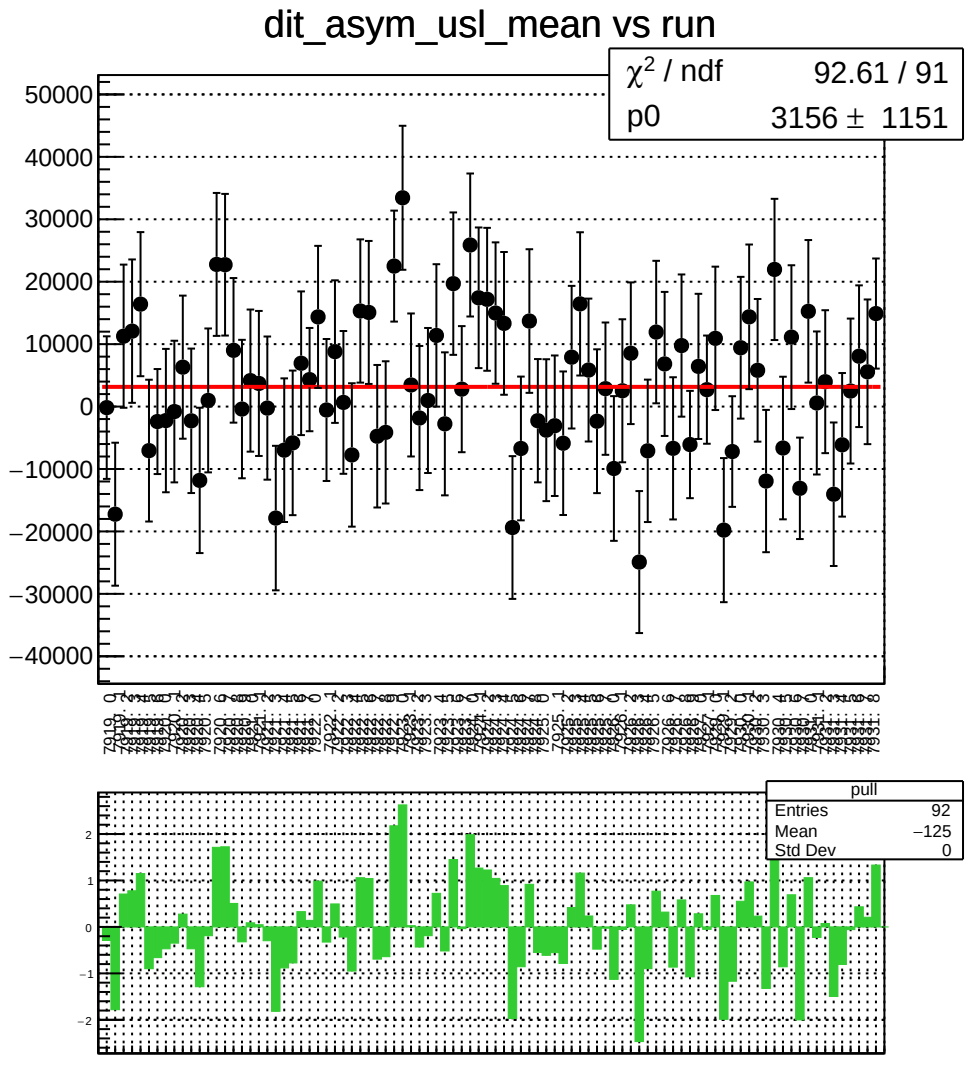

pull1D
Entries 92
Mean 0.007612
Std Dev 1.011

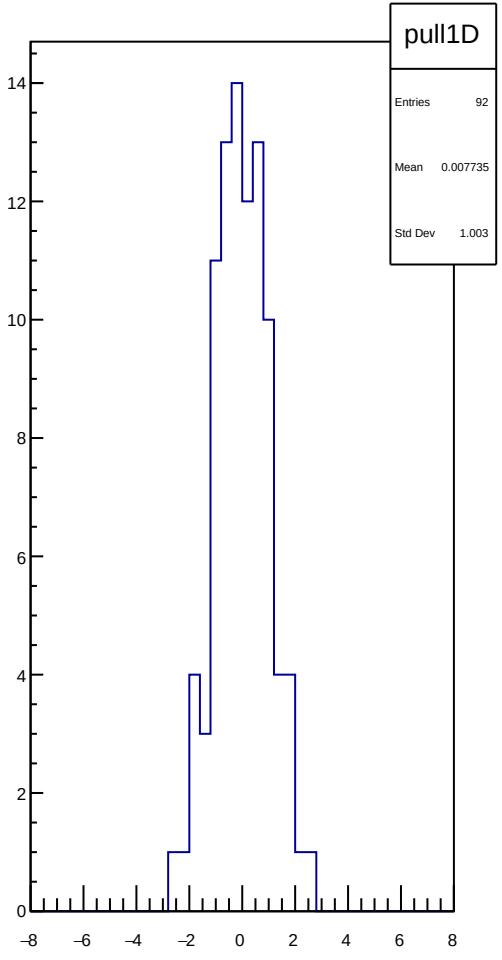

eigen_cor_asym_usl_rms vs run
χ² / ndf 93.85 / 91
p0 1084 ± 0.812
1110
1100
1090
1080
1070
1060

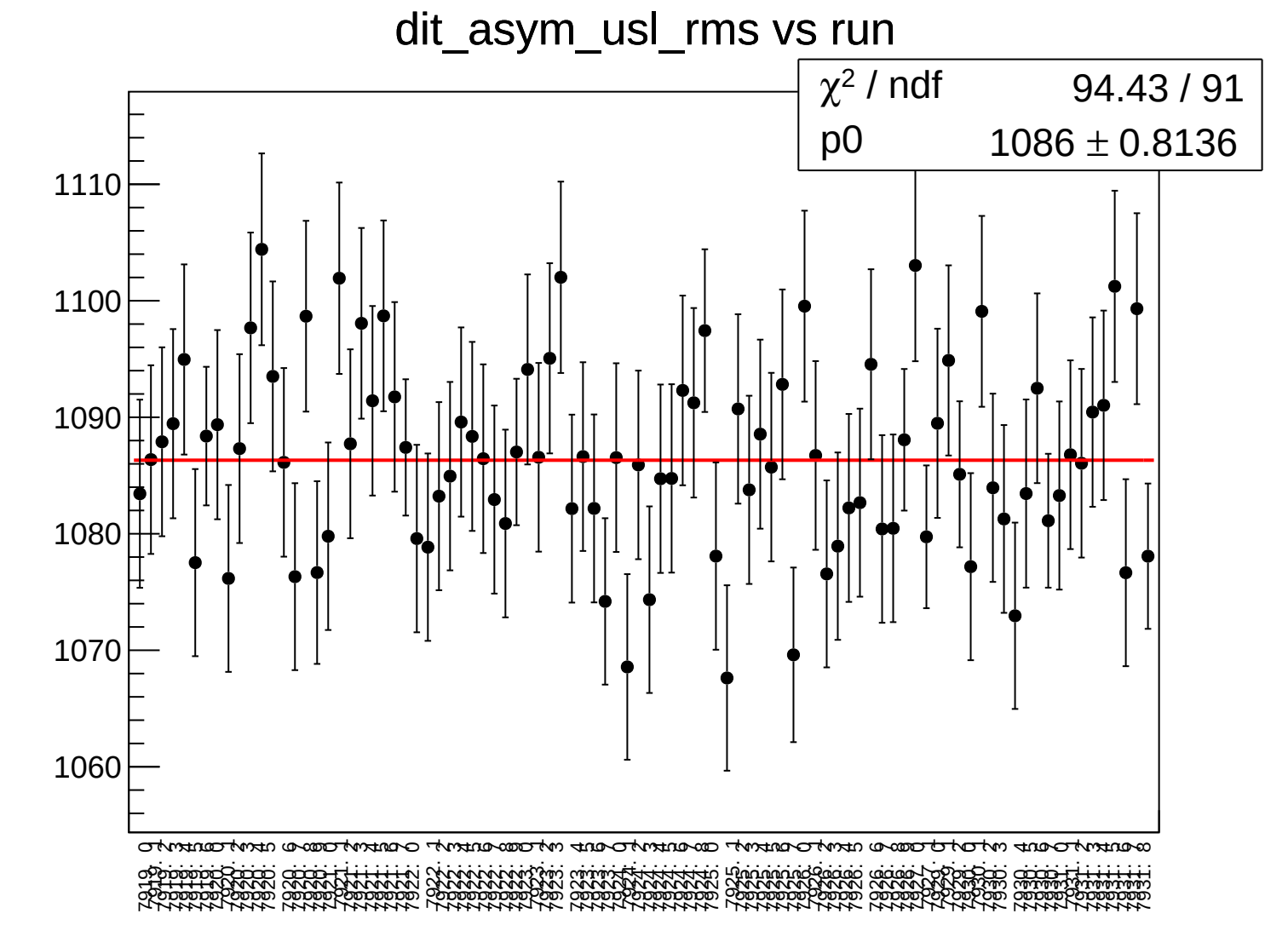

asym_usl_eigen_cor_correction_mean vs run
χ² / ndf 74.3 / 91
p0 −890.4 ± 1301
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −3753
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

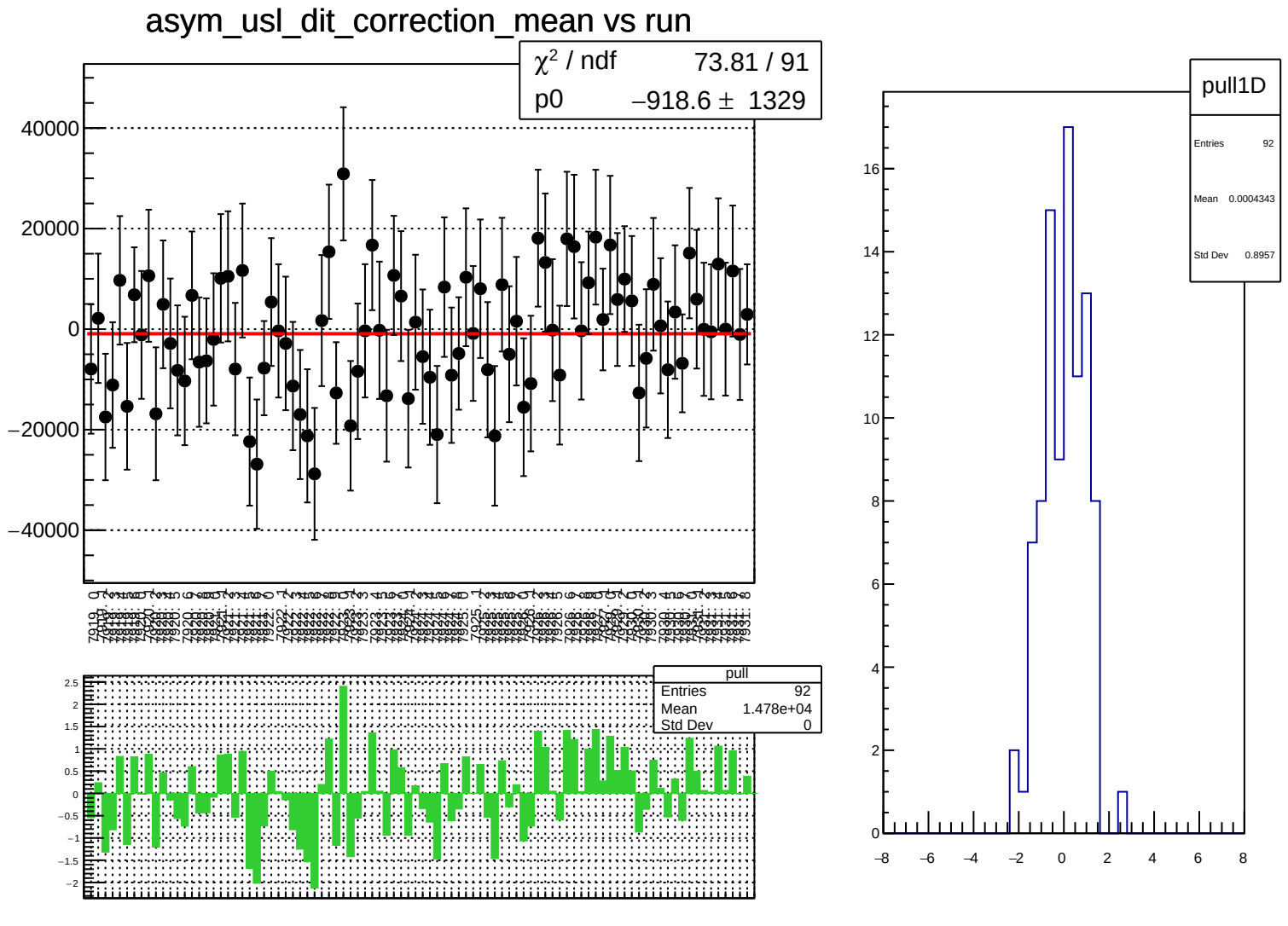

pull1D
Entries 92
Mean −0.001716
Std Dev 0.8987
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

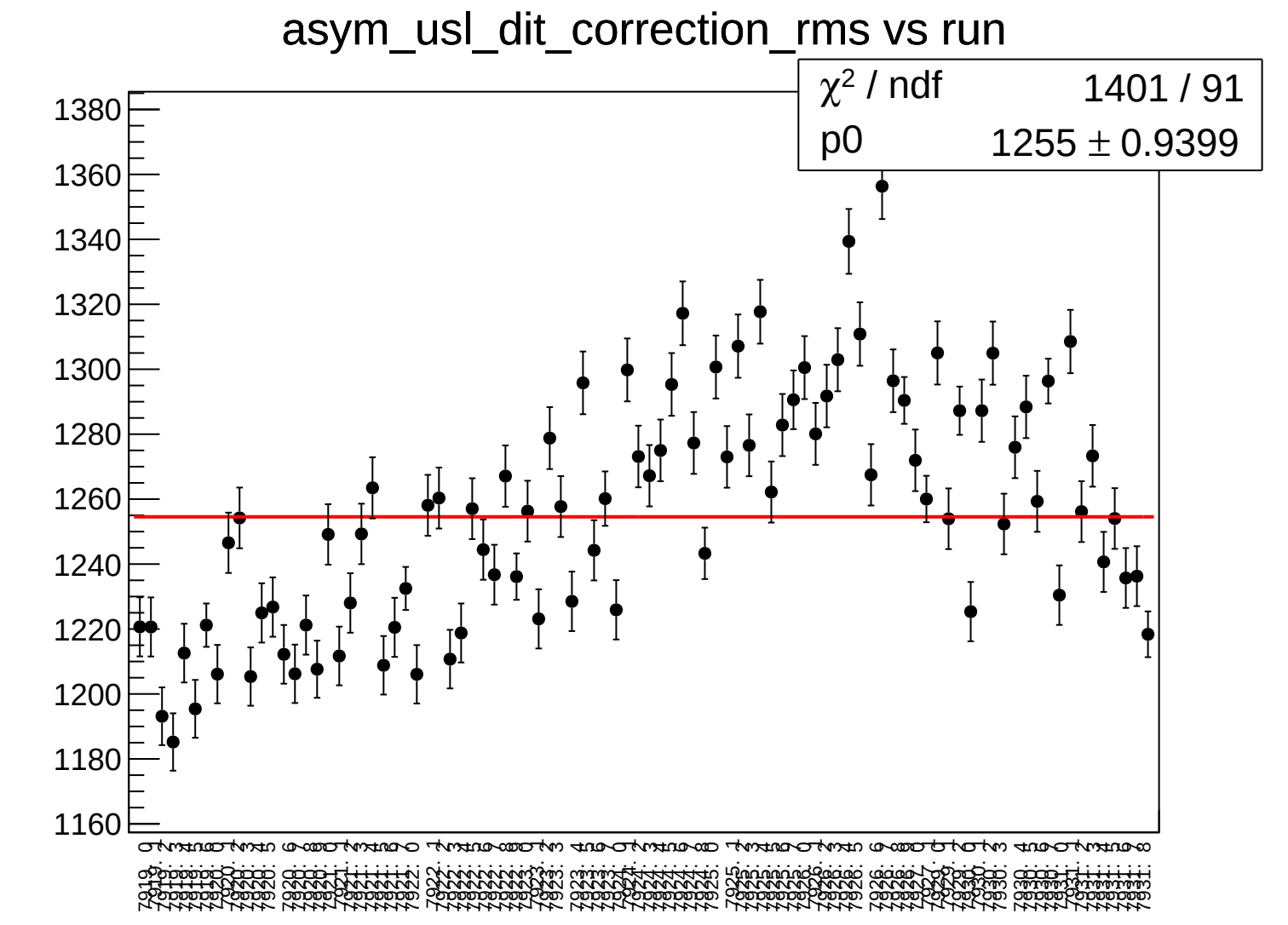

asym_usl_eigen_cor_correction_rms vs run
χ² / ndf 1119 / 91
p0 1228 ± 0.9198
1350
1300
1250
1200
1150

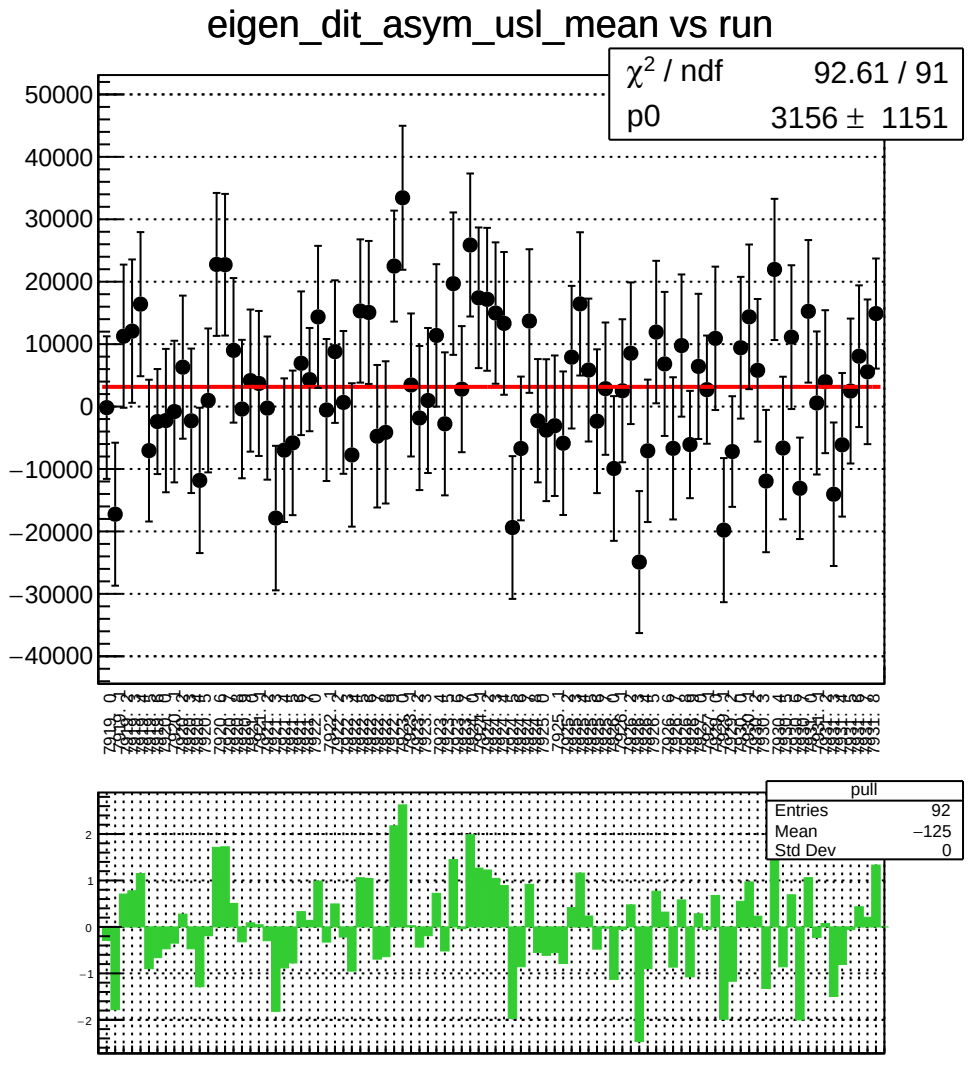

dit_asym_usl_mean vs run
χ² / ndf 92.61 / 91
p0 3156 ± 1151
pull
Entries 92
Mean −125
Std Dev 0

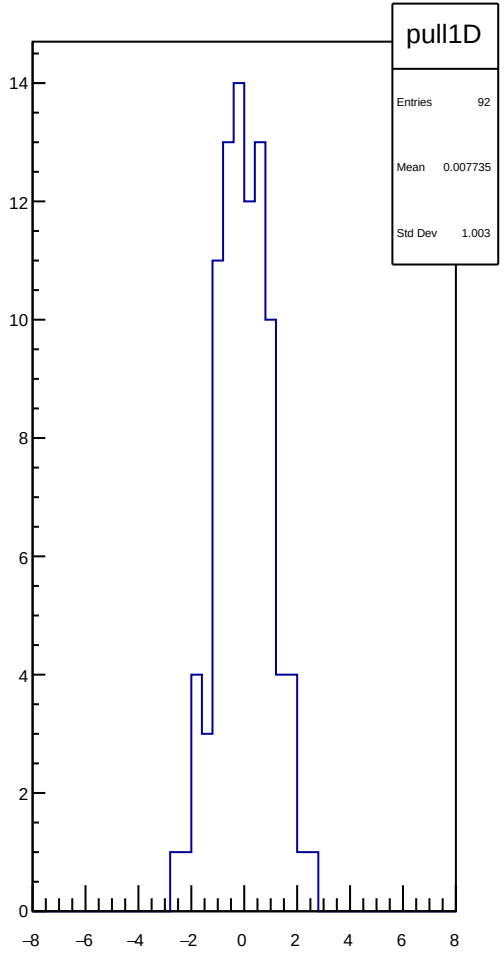

pull1D
Entries 92
Mean 0.007735
Std Dev 1.003

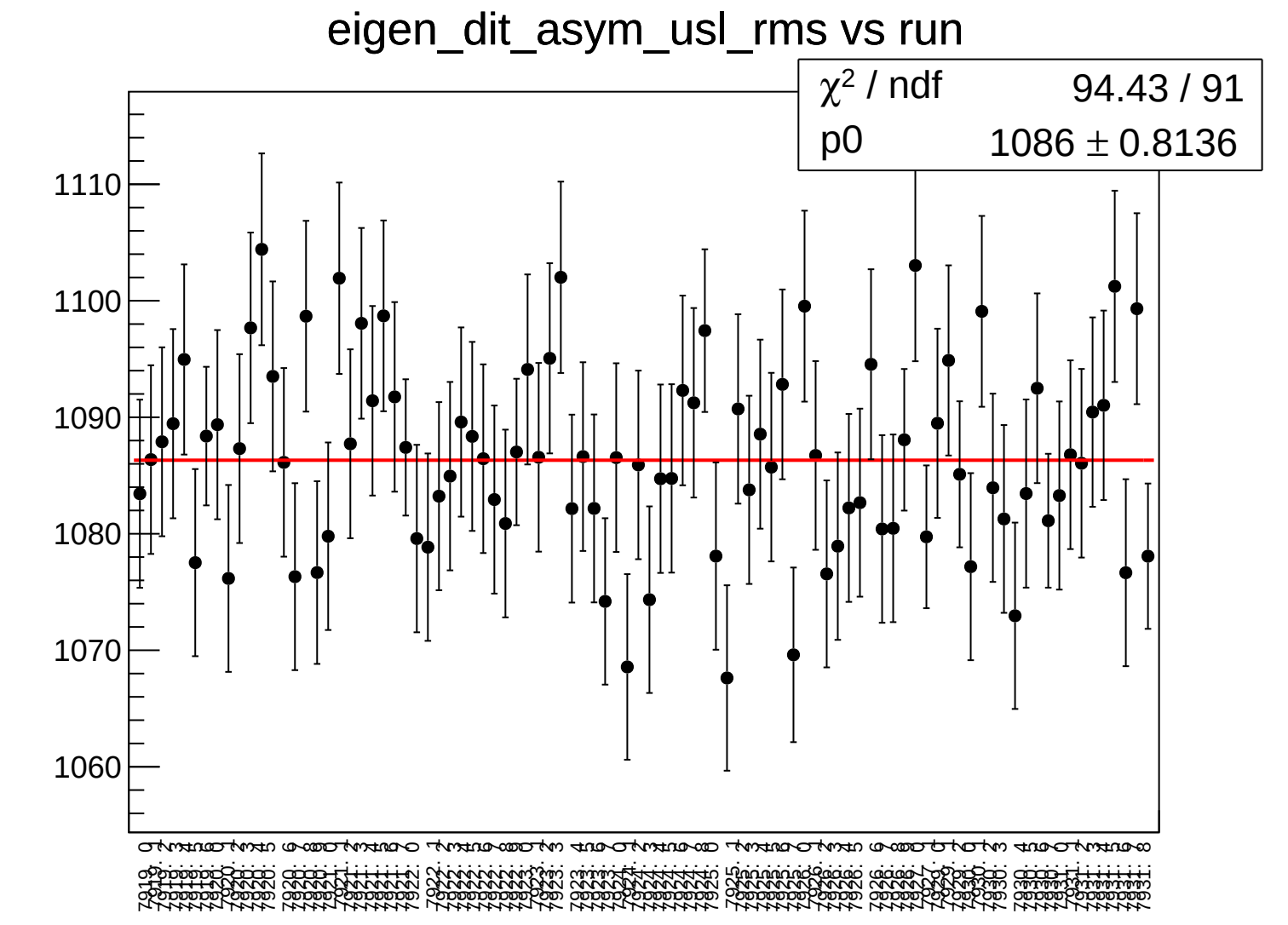

dit_asym_usl_rms vs run
χ² / ndf 94.43 / 91
p0 1086 ± 0.8136
1110
1100
1090
1080
1070
1060

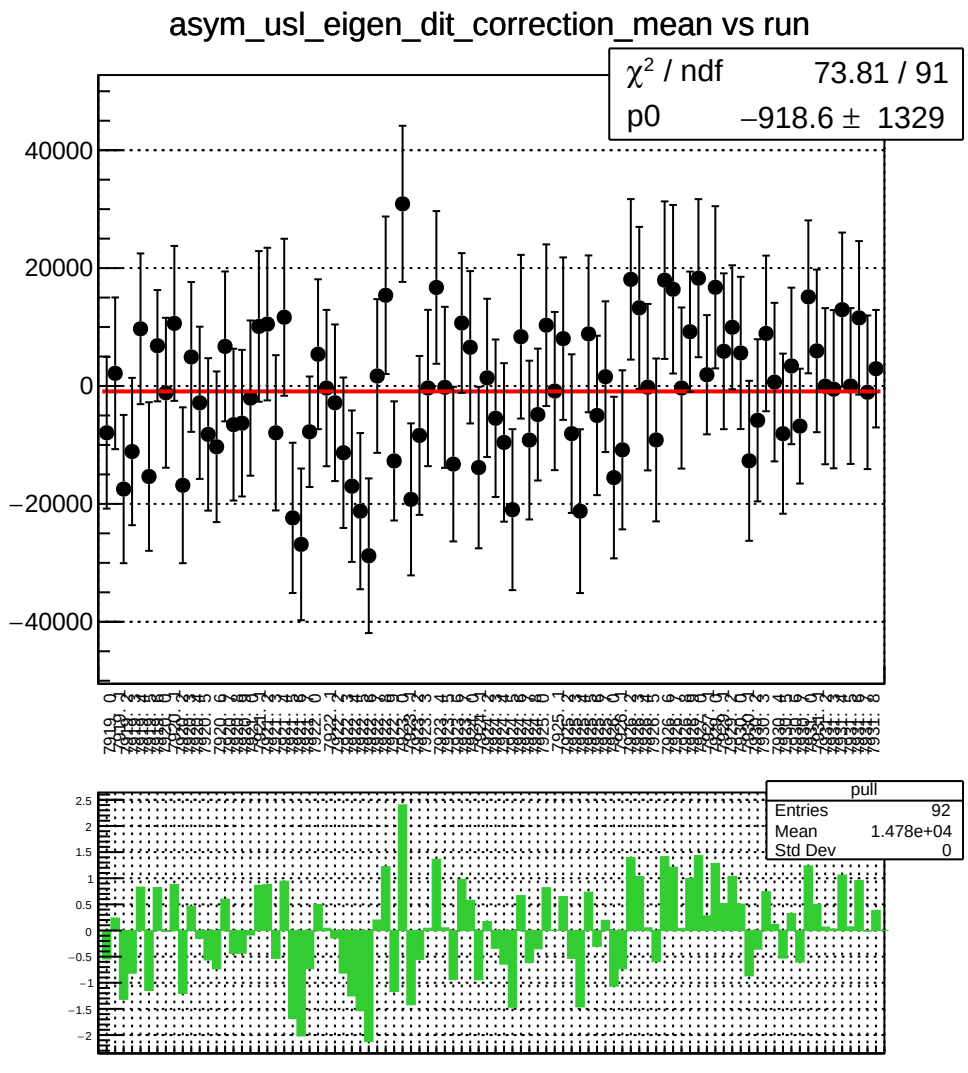

asym_usl_dit_correction_mean vs run
χ² / ndf 73.81 / 91
p0 −918.6 ± 1329
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 1.478e+04
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean 0.0004343
Std Dev 0.8957
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

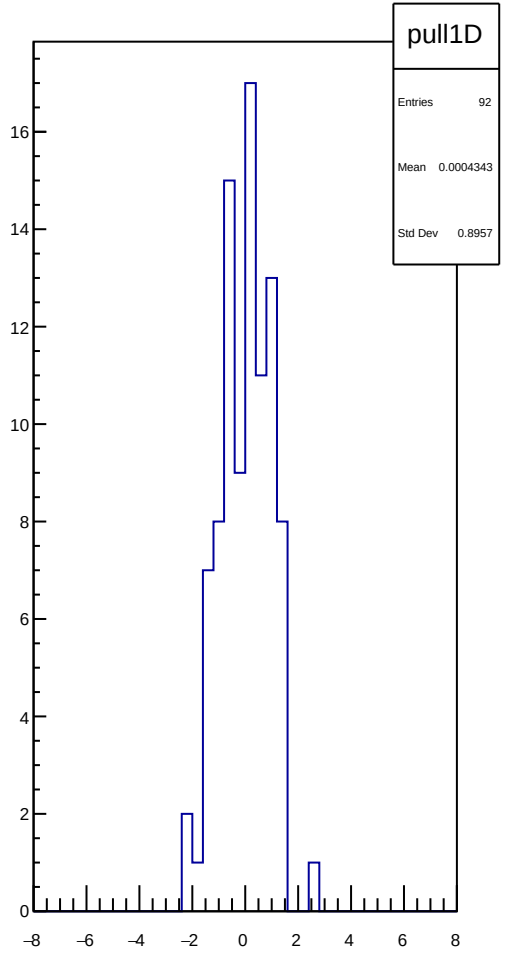

asym_usl_dit_correction_rms vs run
χ² / ndf 1401 / 91
p0 1255 ± 0.9399
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200
1180
1160

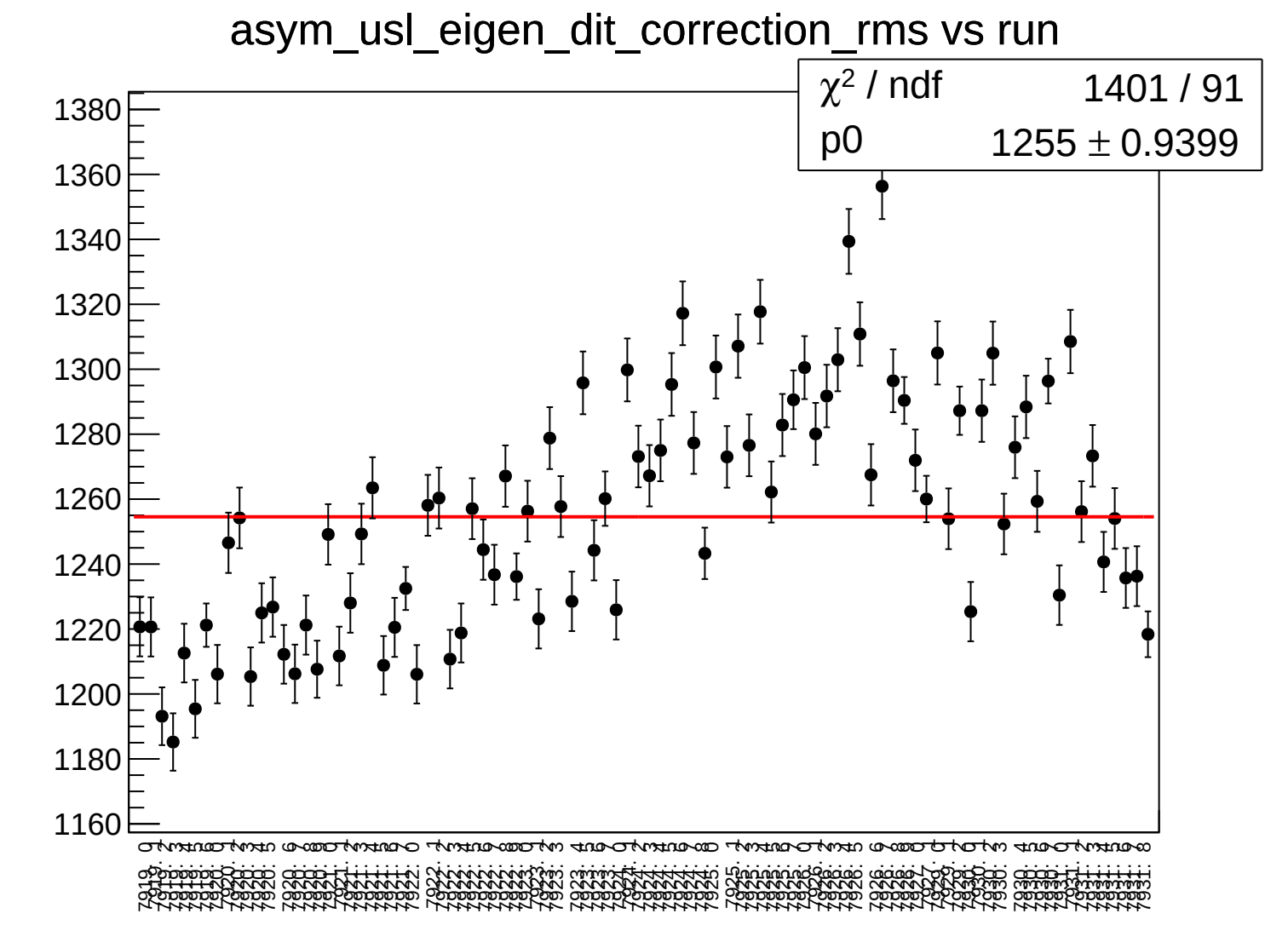

eigen_dit_asym_usl_mean vs run
χ² / ndf 92.61 / 91
p0 3156 ± 1151
pull
Entries 92
Mean −125
Std Dev 0

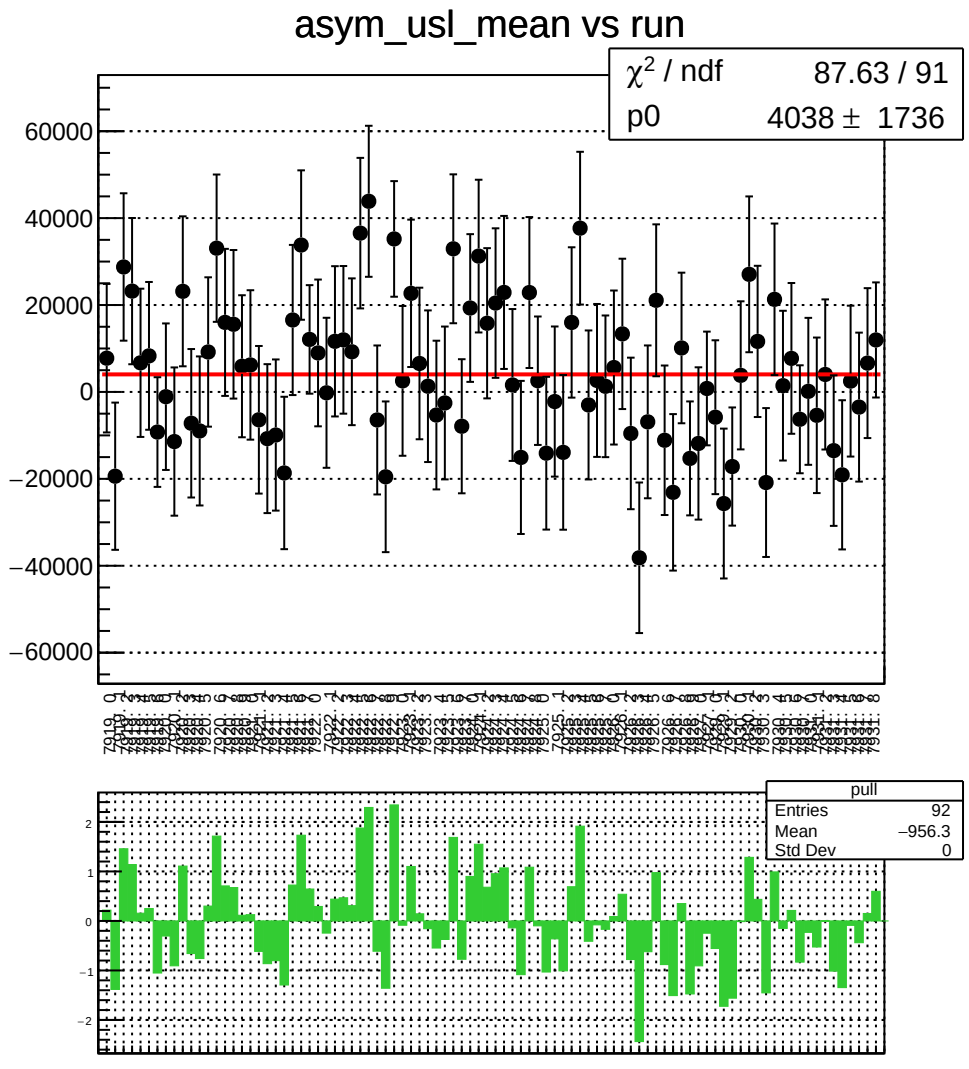

pull1D
Entries 92
Mean 0.007735
Std Dev 1.003

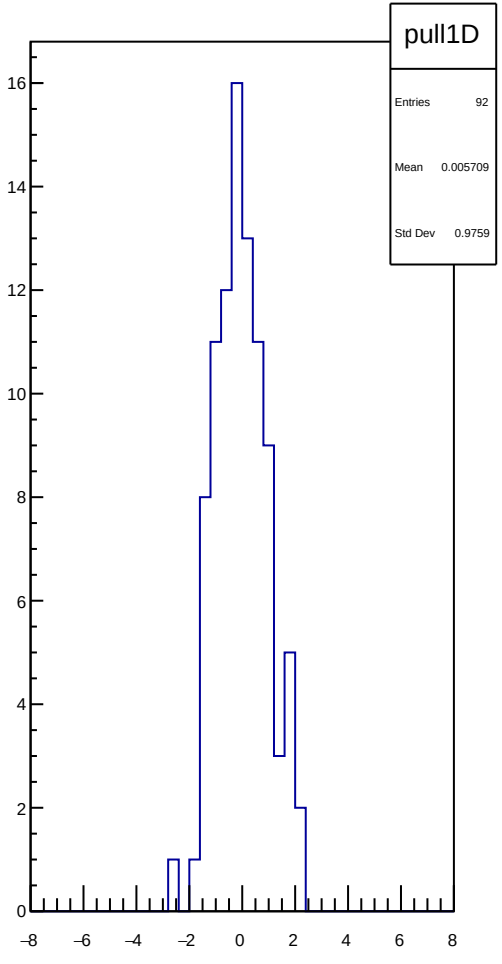

eigen_dit_asym_usl_rms vs run
χ^2 / ndf 94.43 / 91
p0 1086 ± 0.8136
1110
1100
1090
1080
1070
1060

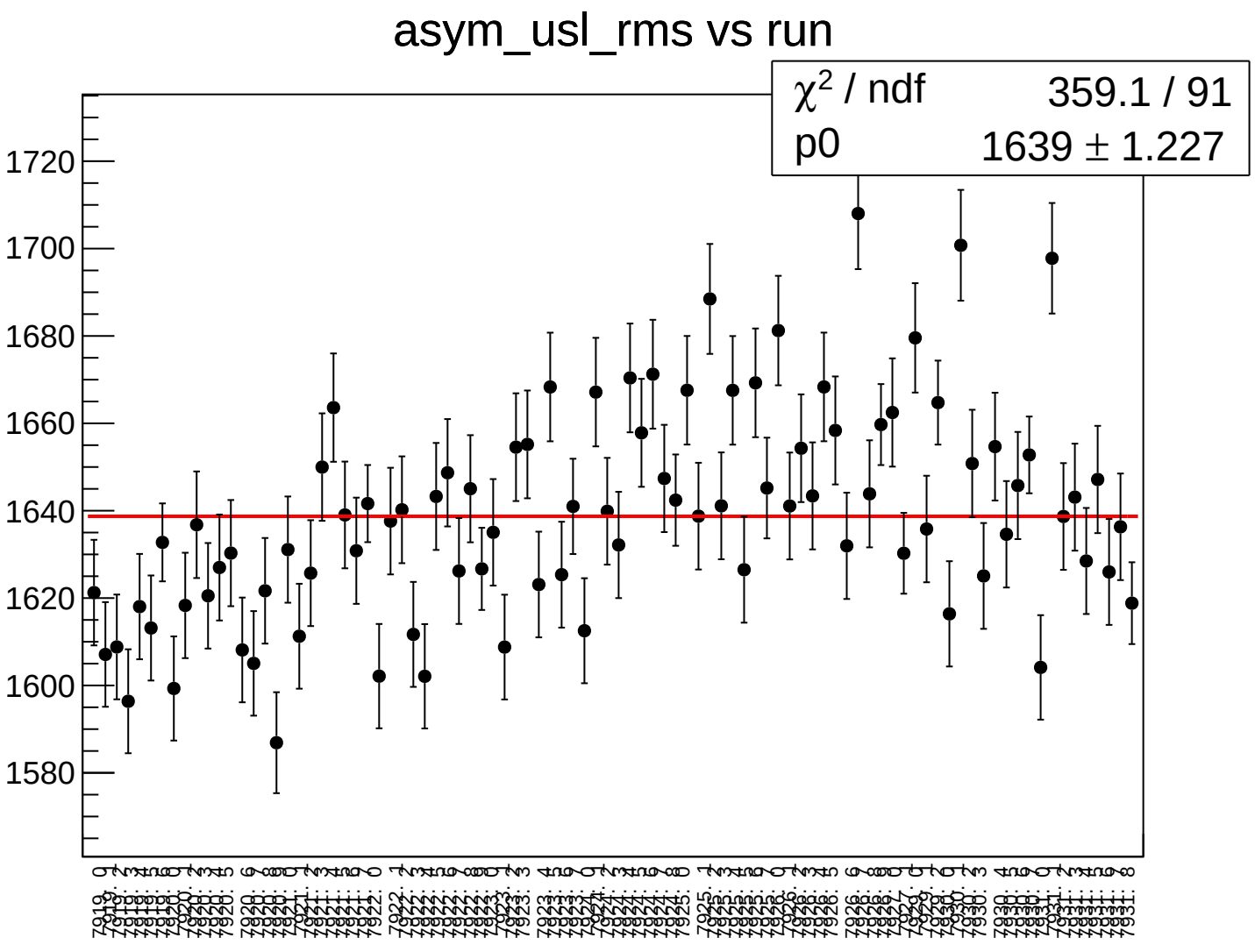

asym_usl_eigen_dit_correction_mean vs run
χ² / ndf 73.81 / 91
p0 −918.6 ± 1329
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 1.478e+04
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

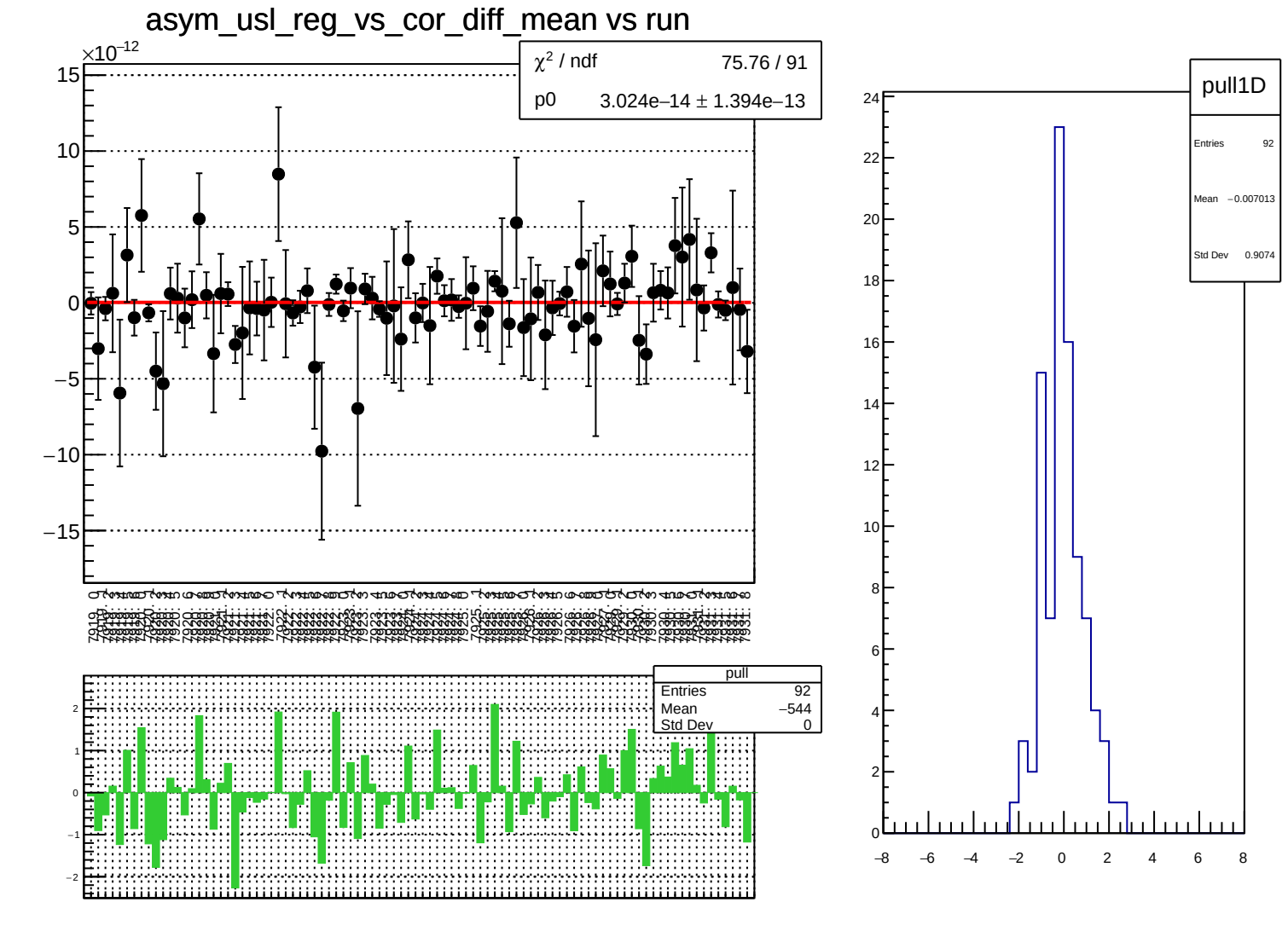

pull1D
Entries 92
Mean 0.0004343
Std Dev 0.8957
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

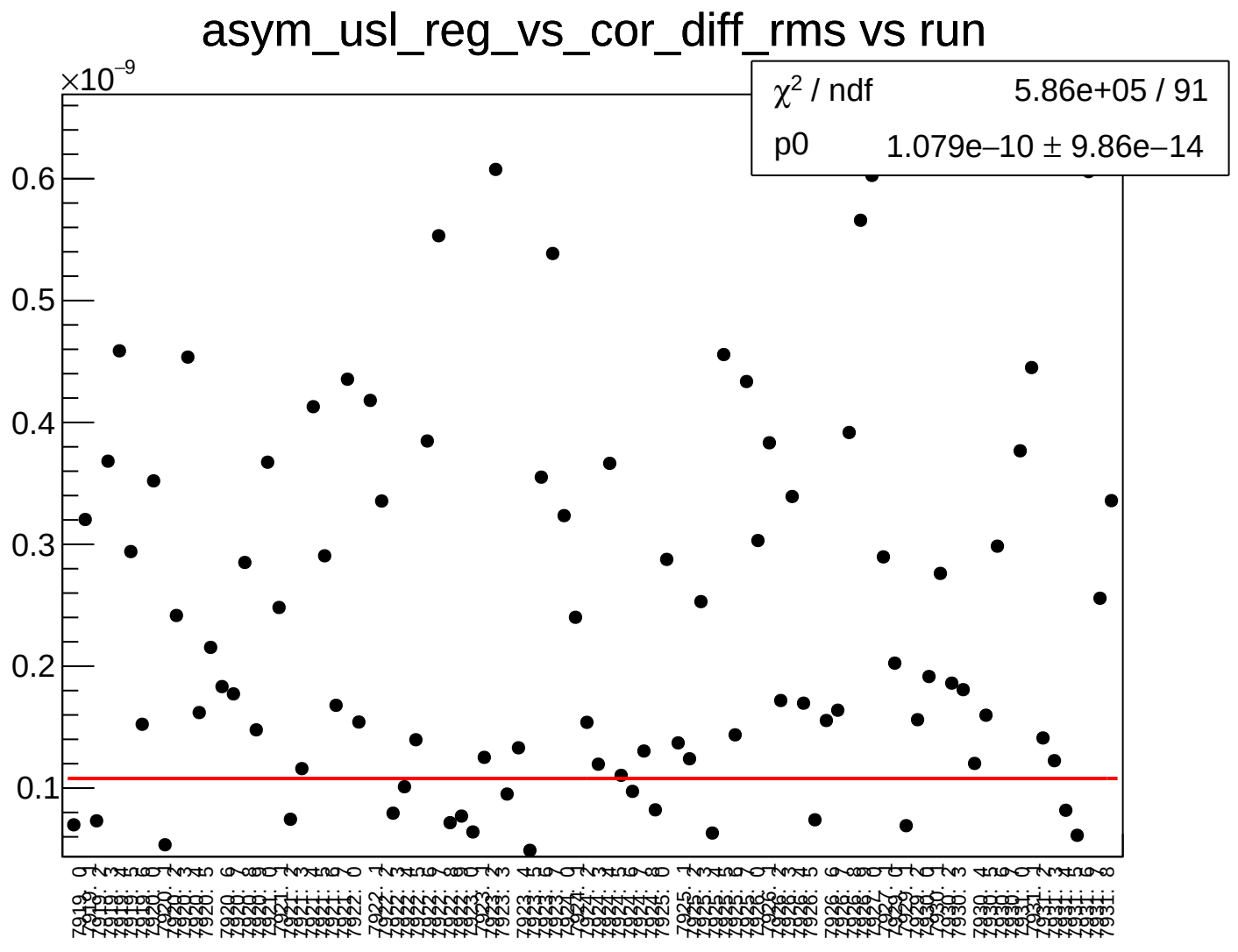

asym_usl_eigen_dit_correction_rms vs run
χ² / ndf 1401 / 91
p0 1255 ± 0.9399
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200
1180
1160

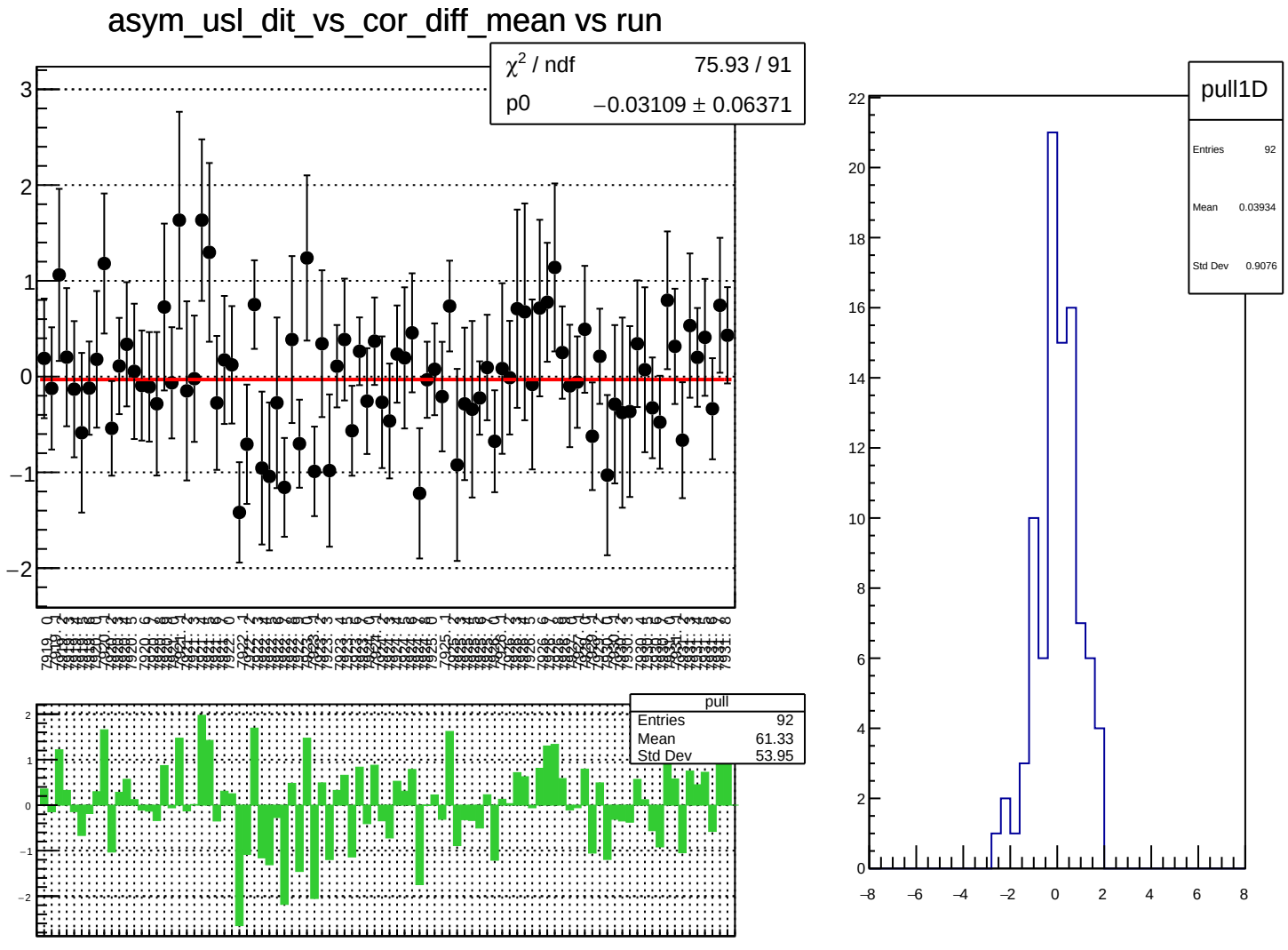

asym_usl_mean vs run
χ² / ndf 87.63 / 91
p0 4038 ± 1736
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −956.3
Std Dev 0
2
1
0
−1
−2

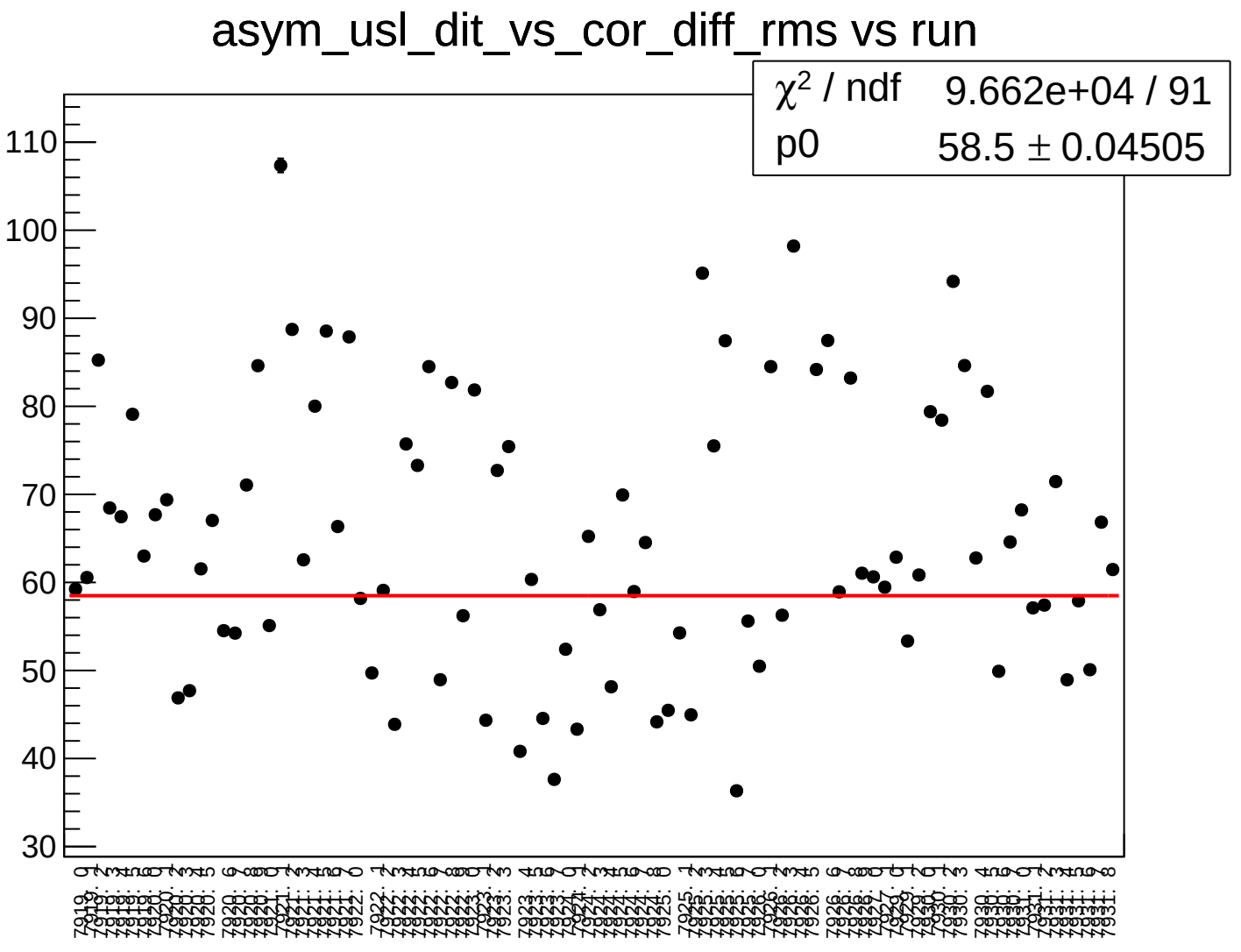

pull1D
Entries 92
Mean 0.005709
Std Dev 0.9759
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

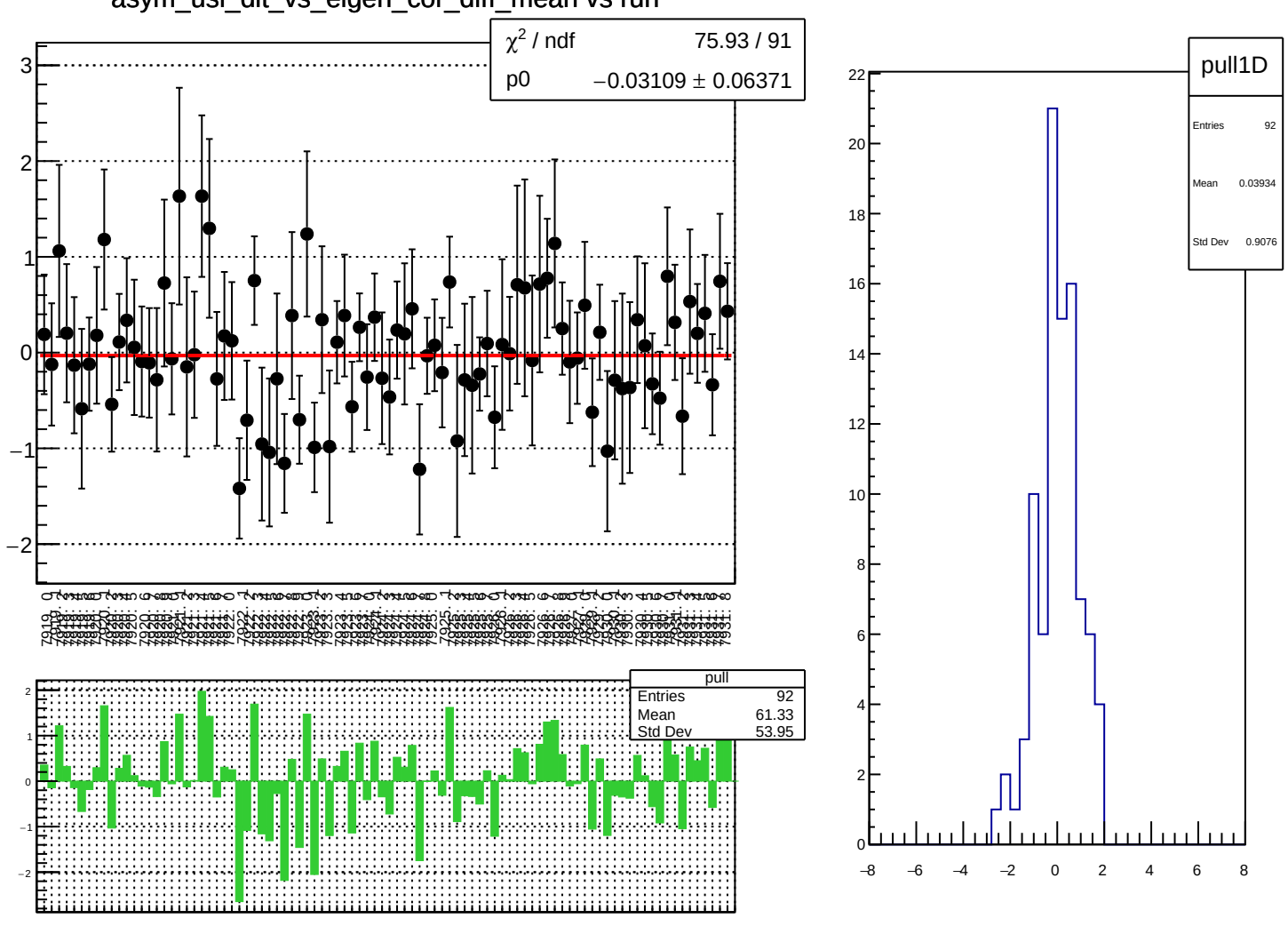

asym_usl_rms vs run
χ² / ndf 359.1 / 91
p0 1639 ± 1.227
1720
1700
1680
1660
1640
1620
1600
1580

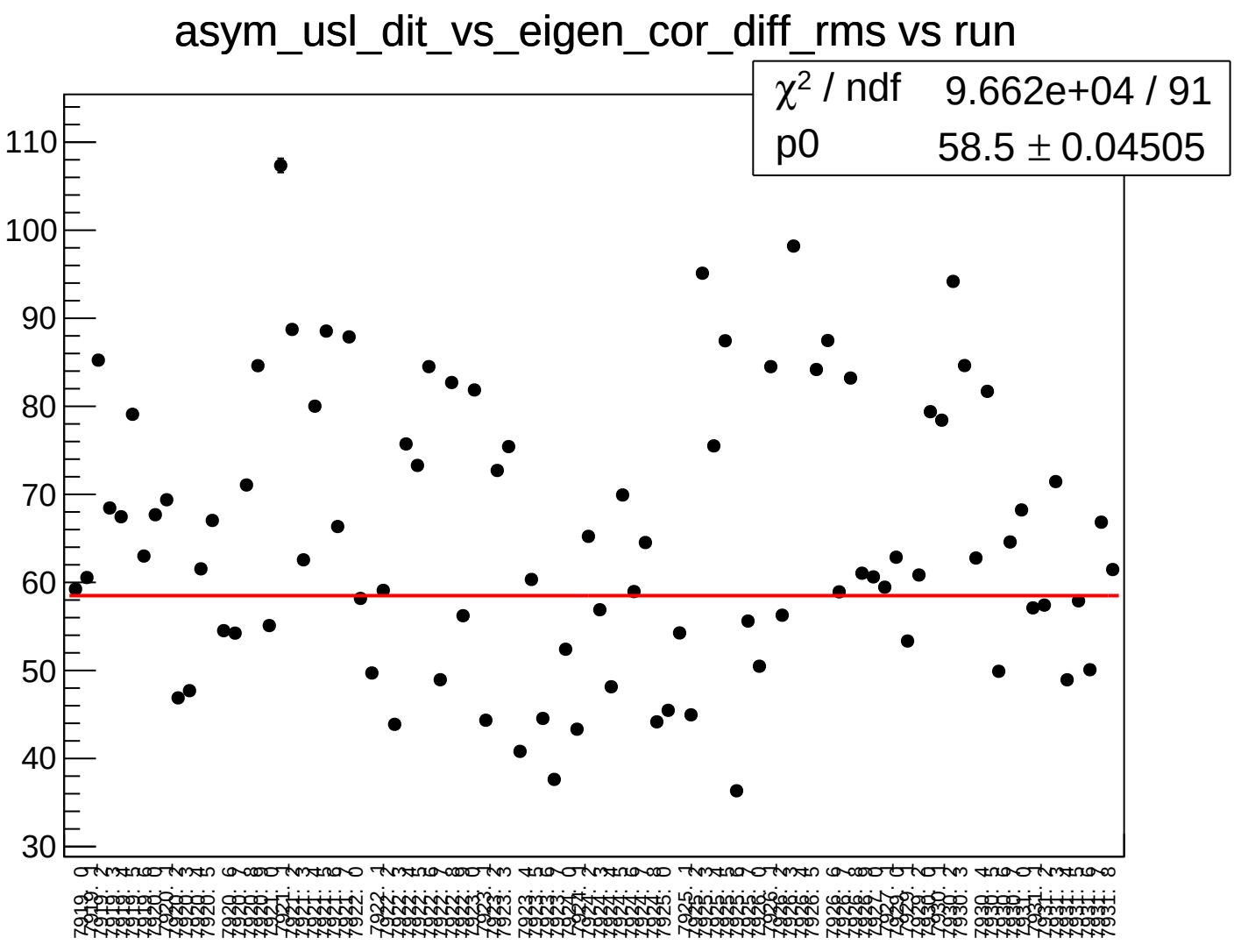

asym_usl_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.76 / 91
p0 3.024e−14 ± 1.394e−13
pull
Entries 92
Mean −544
Std Dev 0
pull1D
Entries 92
Mean −0.007013
Std Dev 0.9074

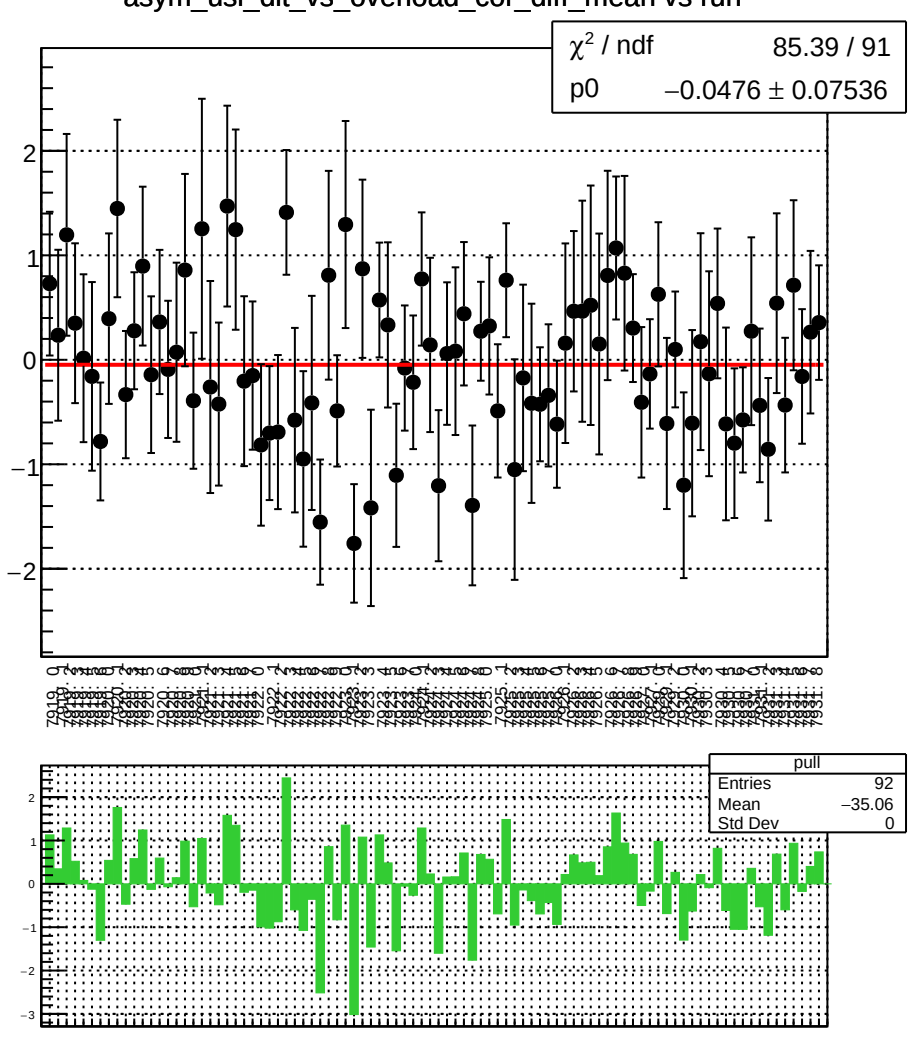

asym_usl_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.86e+05 / 91
p0 1.079e−10 ± 9.86e−14
0.6
0.5
0.4
0.3
0.2
0.1

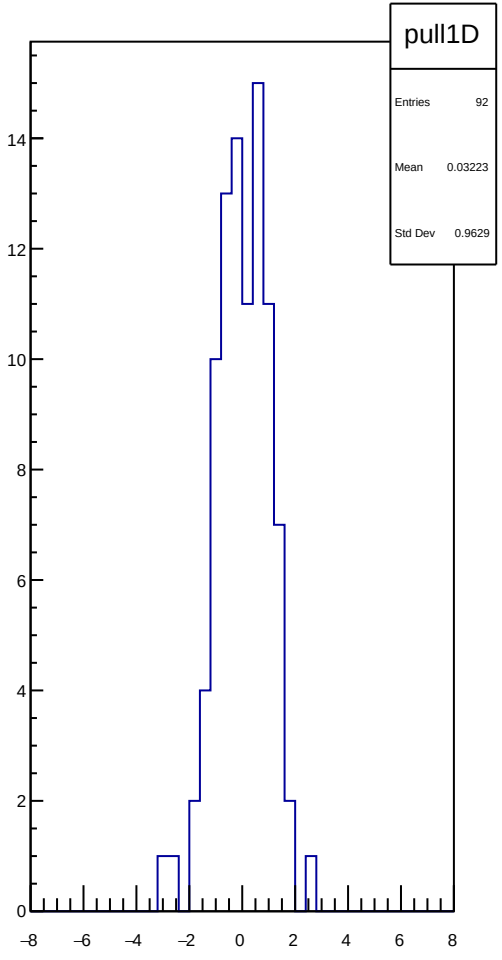

asym_usl_dit_vs_cor_diff_mean vs run
χ² / ndf 75.93 / 91
p0 −0.03109 ± 0.06371
pull
Entries 92
Mean 61.33
Std Dev 53.95
pull1D
Entries 92
Mean 0.03934
Std Dev 0.9076

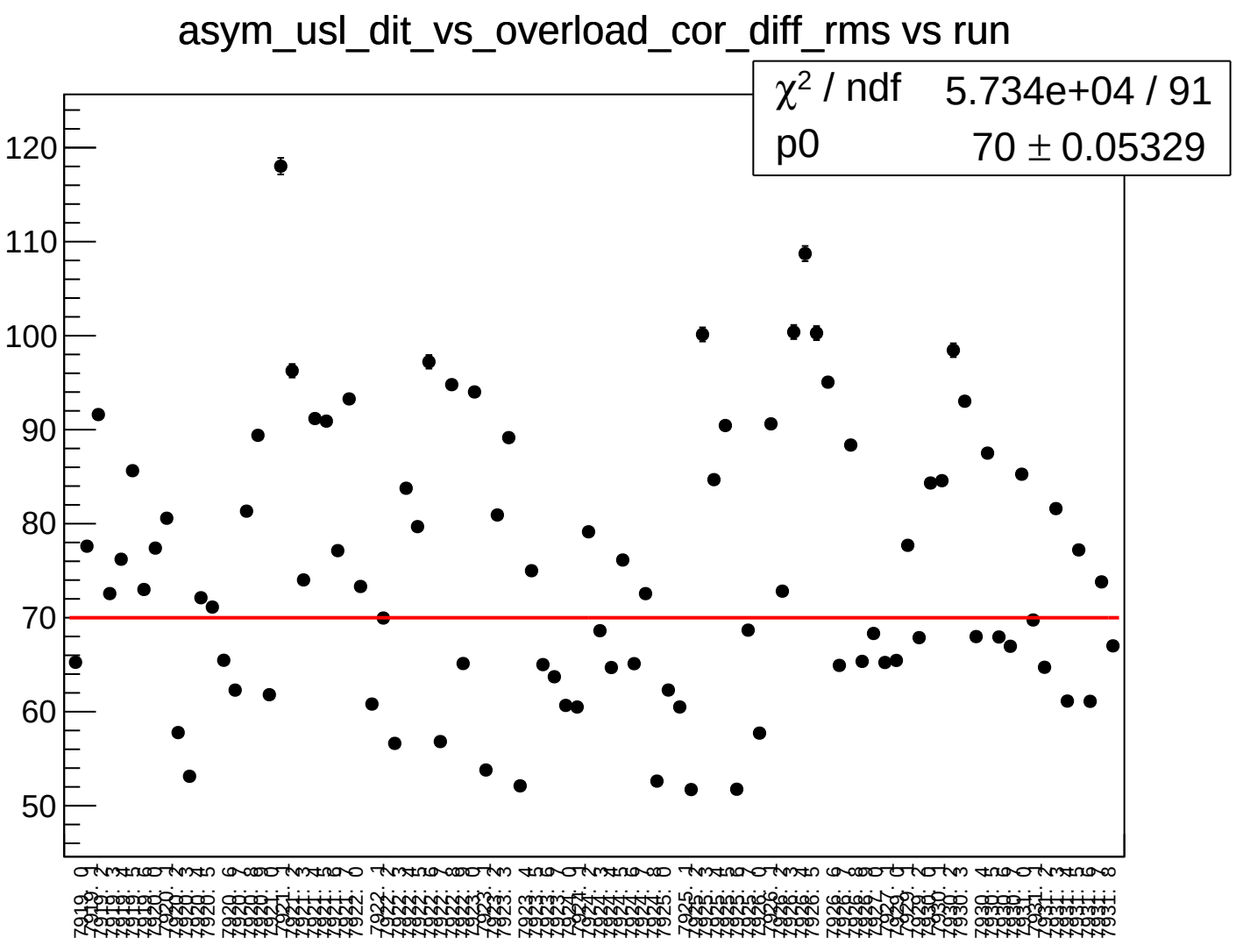

asym_usl_dit_vs_cor_diff_rms vs run
χ² / ndf 9.662e+04 / 91
p0 58.5 ± 0.04505
110
100
90
80
70
60
50
40
30

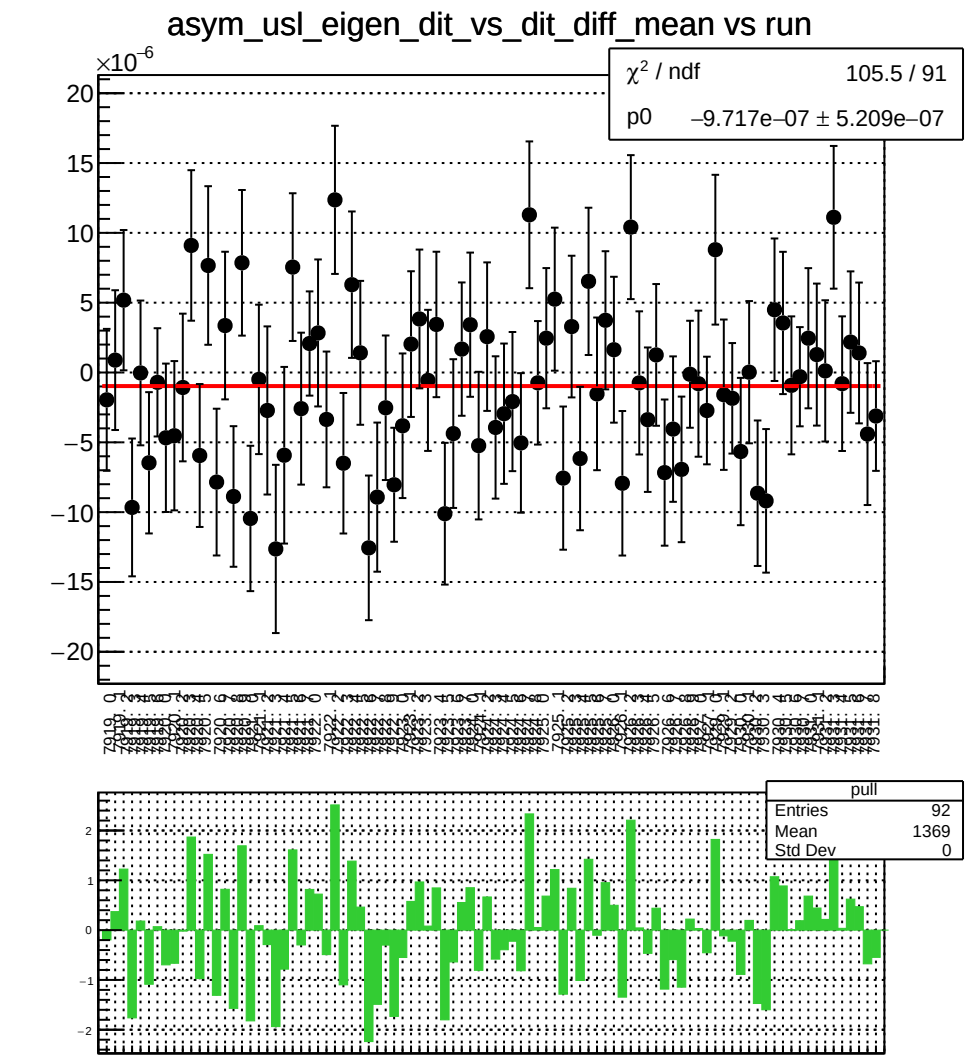

asym_usl_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.93 / 91
p0 −0.03109 ± 0.06371
pull
Entries 92
Mean 61.33
Std Dev 53.95
pull1D
Entries 92
Mean 0.03934
Std Dev 0.9076

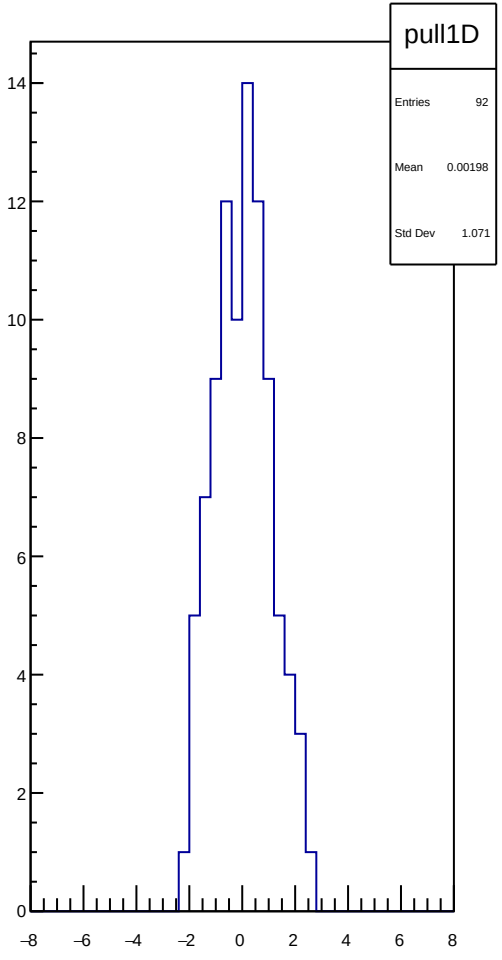

asym_usl_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.662e+04 / 91
p0 58.5 ± 0.04505
110
100
90
80
70
60
50
40
30

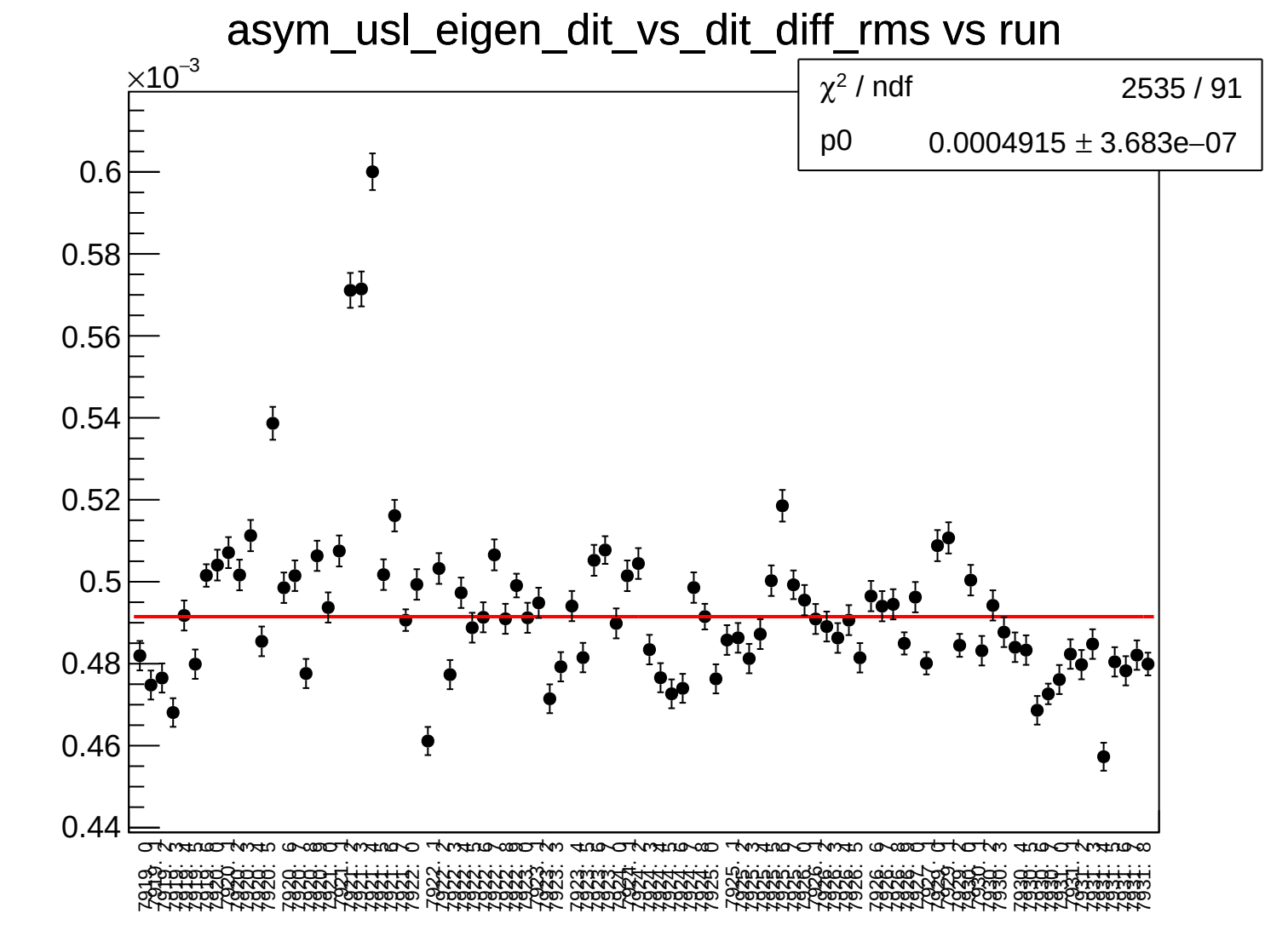

asym_usl_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 85.39 / 91
p0 −0.0476 ± 0.07536
pull
Entries 92
Mean −35.06
Std Dev 0

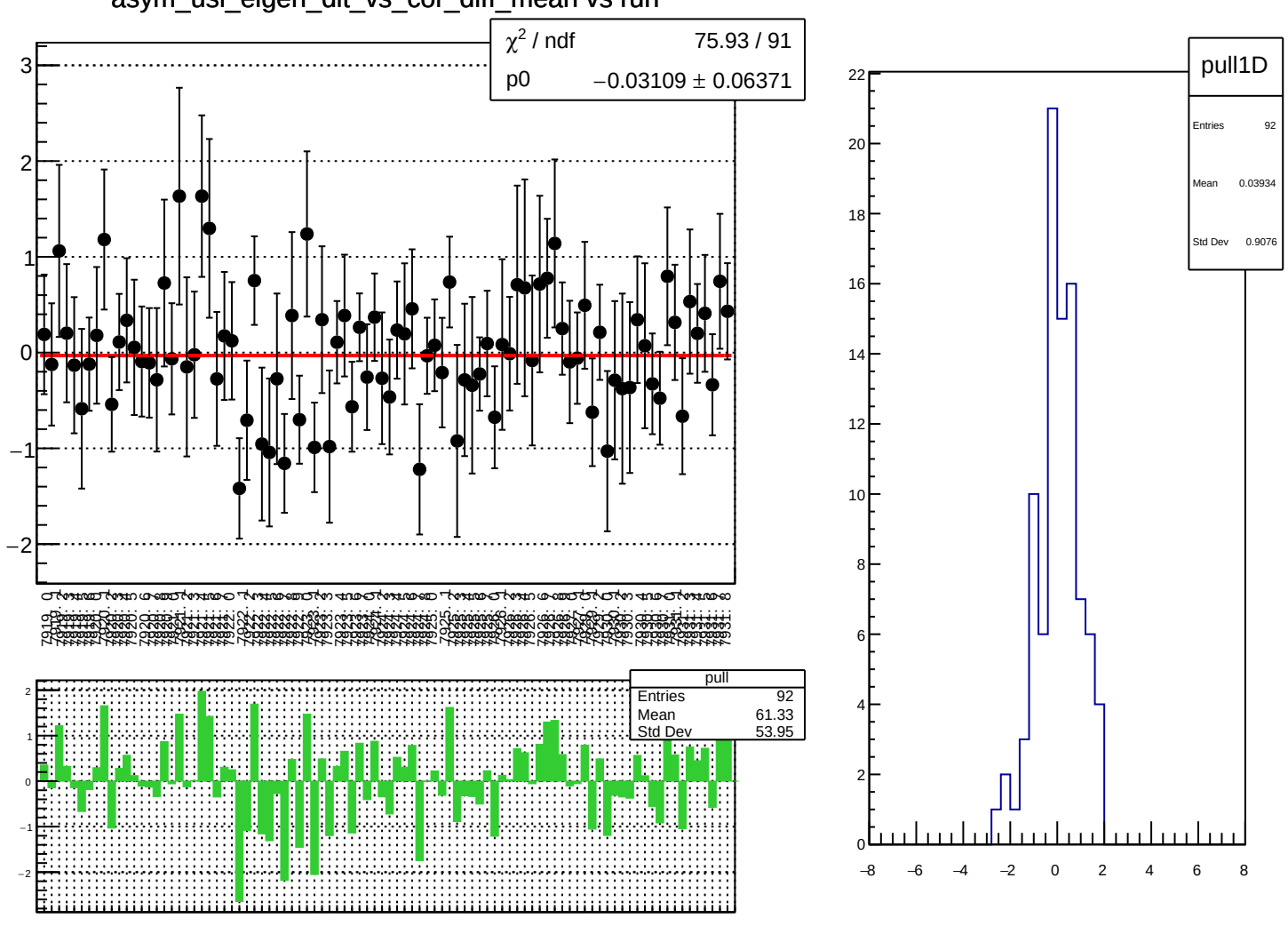

pull1D
Entries 92
Mean 0.03223
Std Dev 0.9629

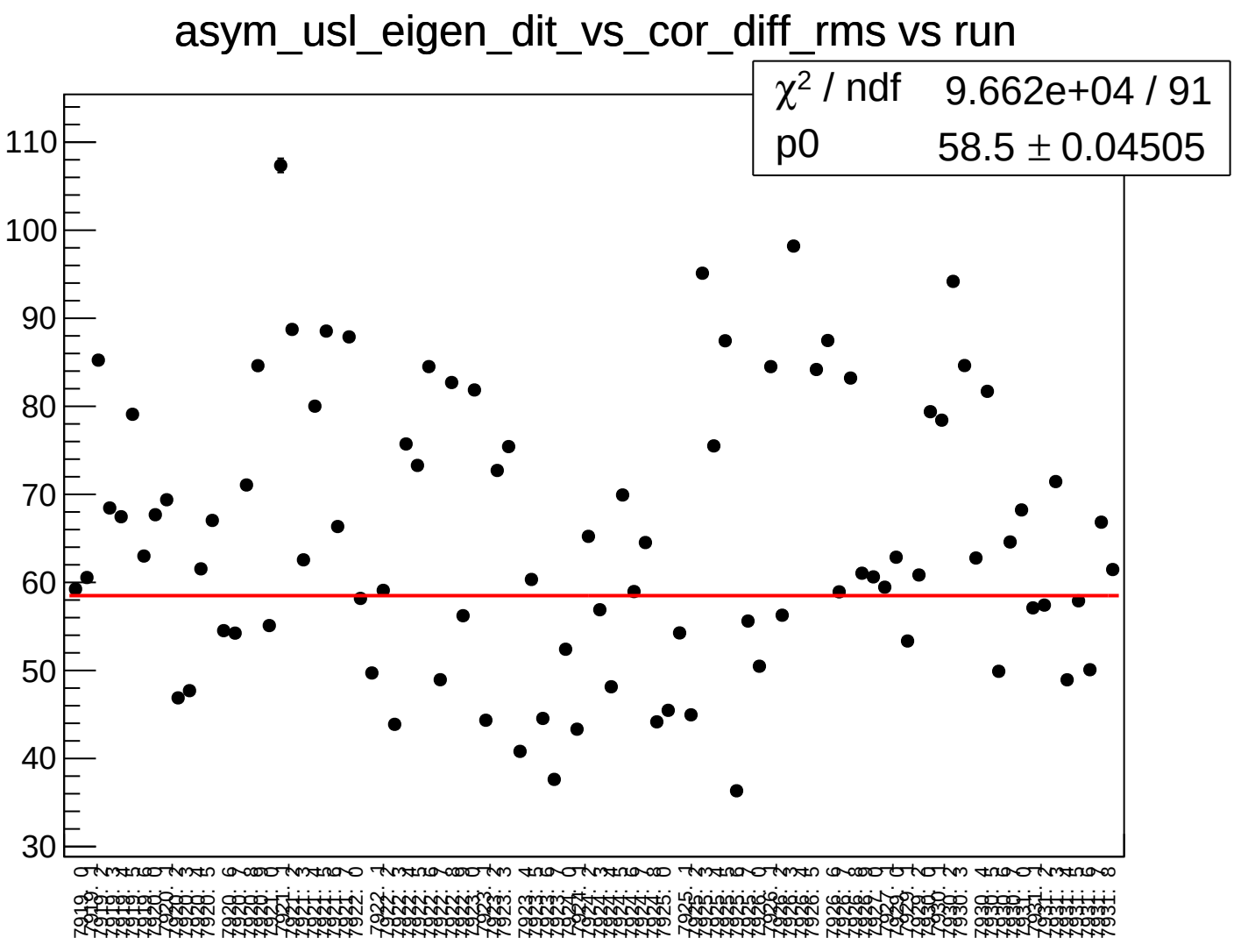

asym_usl_dit_vs_overload_cor_diff_rms vs run
χ^2 / ndf 5.734e+04 / 91
p0 70 ± 0.05329
120
110
100
90
80
70
60
50

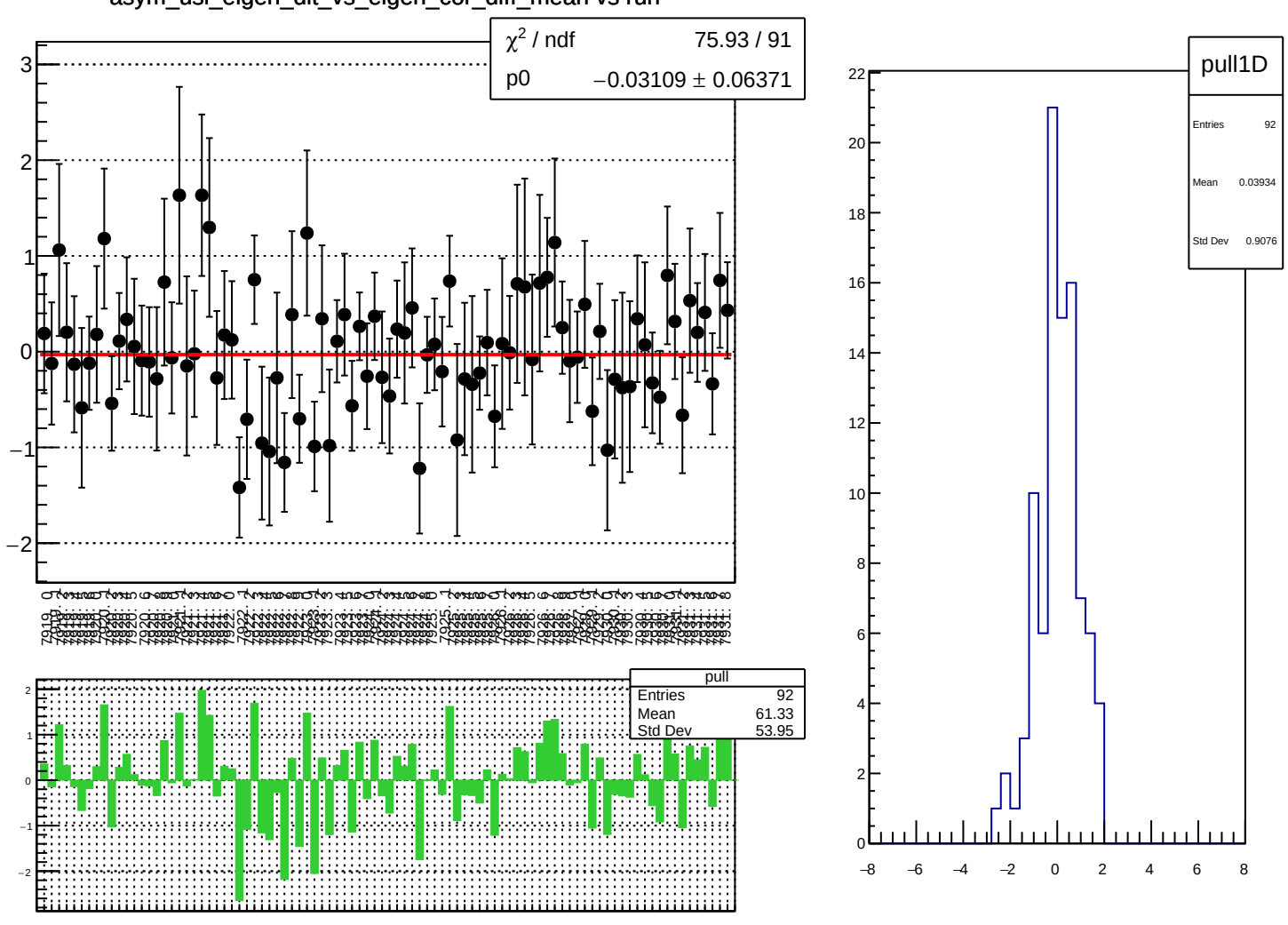

asym_usl_eigen_dit_vs_dit_diff_mean vs run
×10⁻⁶
χ² / ndf 105.5 / 91
p0 −9.717e−07 ± 5.209e−07
pull
Entries 92
Mean 1369
Std Dev 0

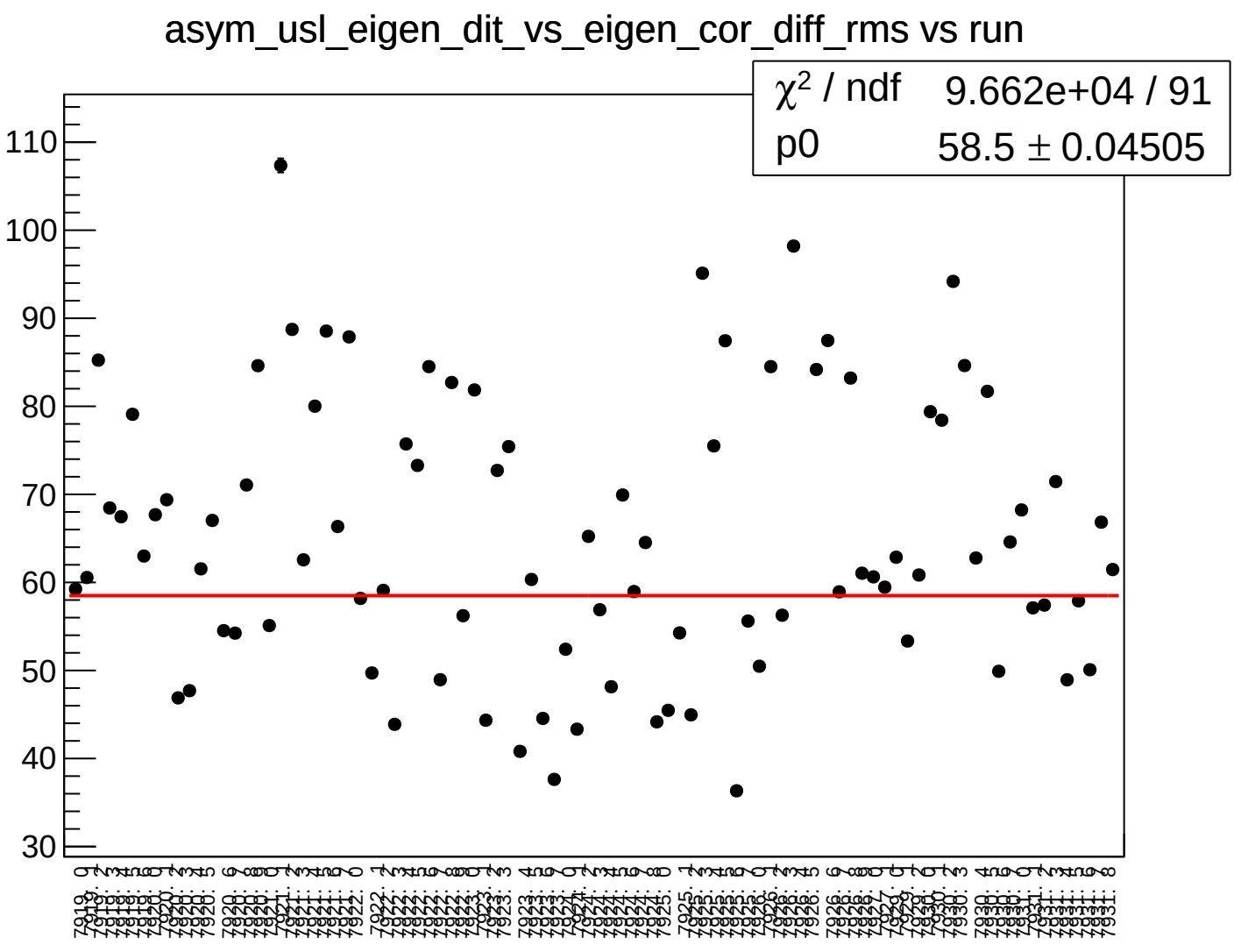

pull1D
Entries 92
Mean 0.00198
Std Dev 1.071

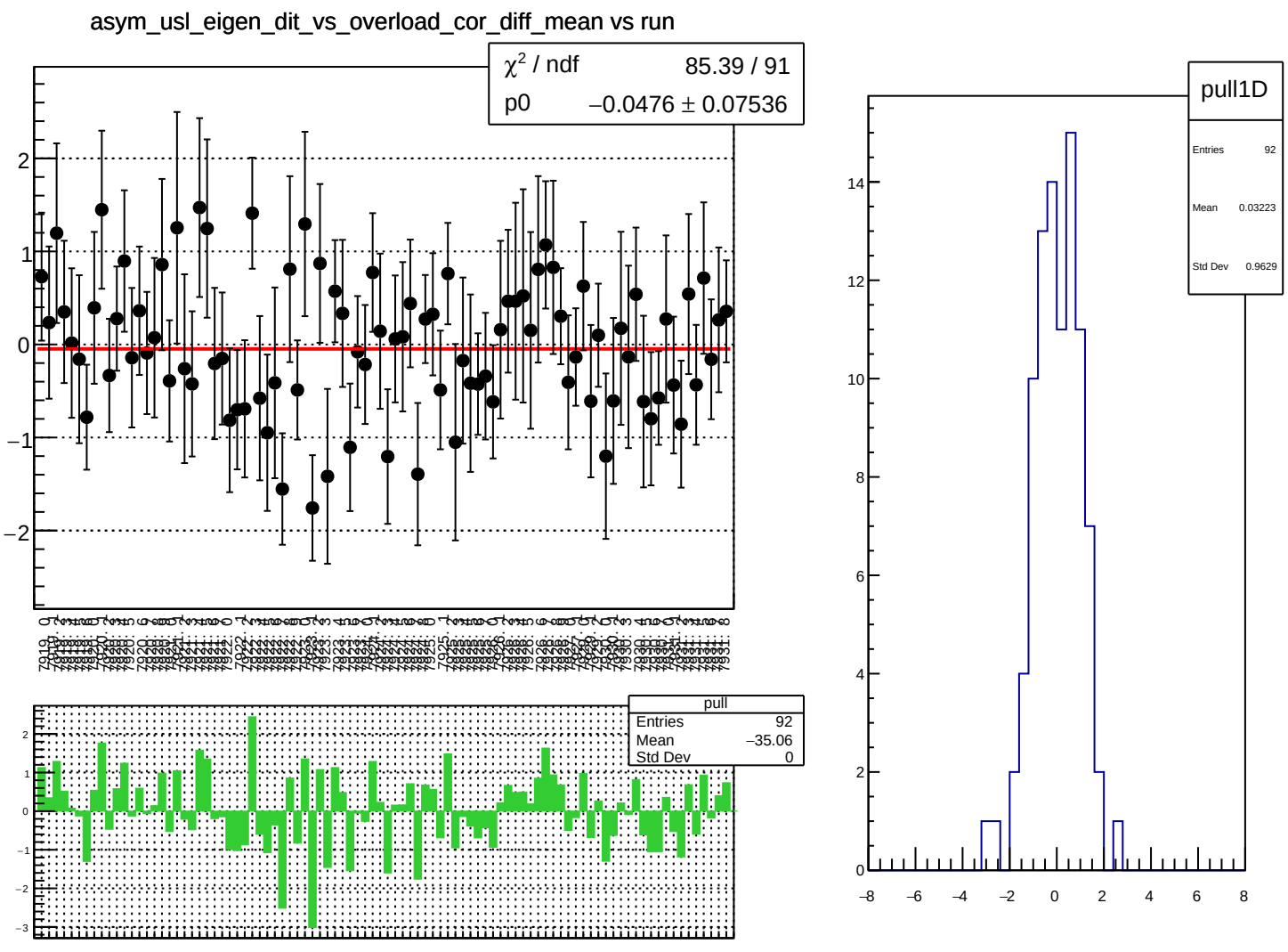

asym_usl_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 2535 / 91
p0 0.0004915 ± 3.683e−07
0.6
0.58
0.56
0.54
0.52
0.5
0.48
0.46
0.44

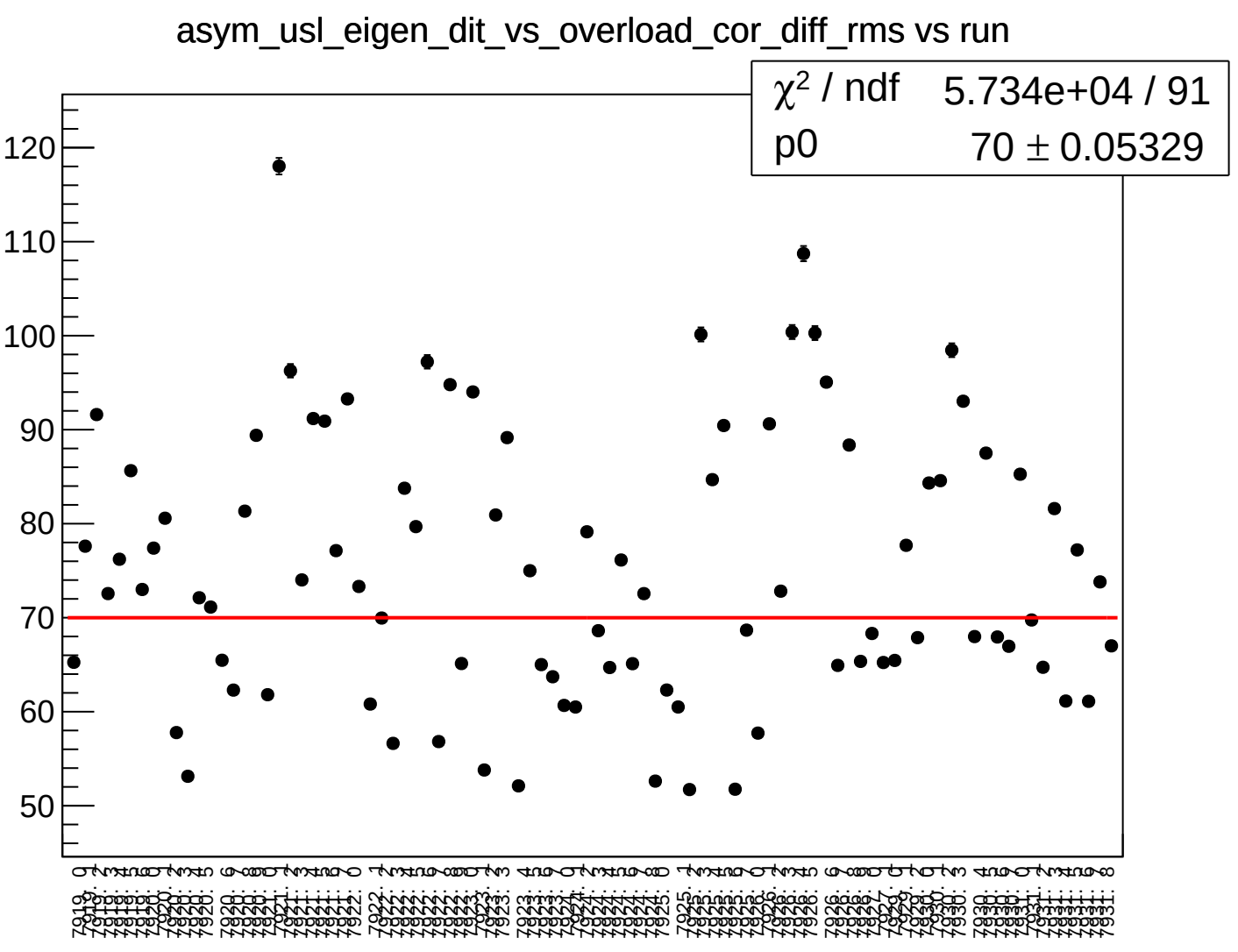

asym_usl_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.93 / 91
p0 −0.03109 ± 0.06371
pull
Entries 92
Mean 61.33
Std Dev 53.95
pull1D
Entries 92
Mean 0.03934
Std Dev 0.9076

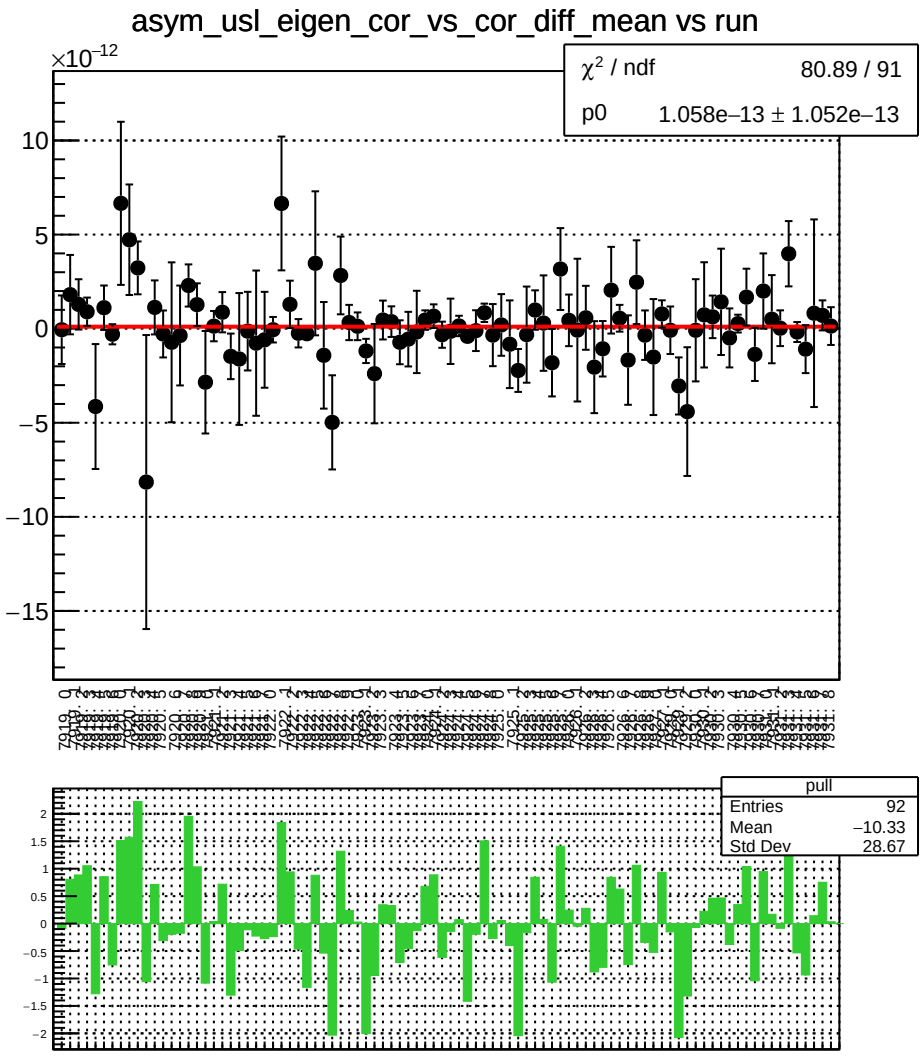

asym_usl_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.662e+04 / 91
p0 58.5 ± 0.04505
110
100
90
80
70
60
50
40
30

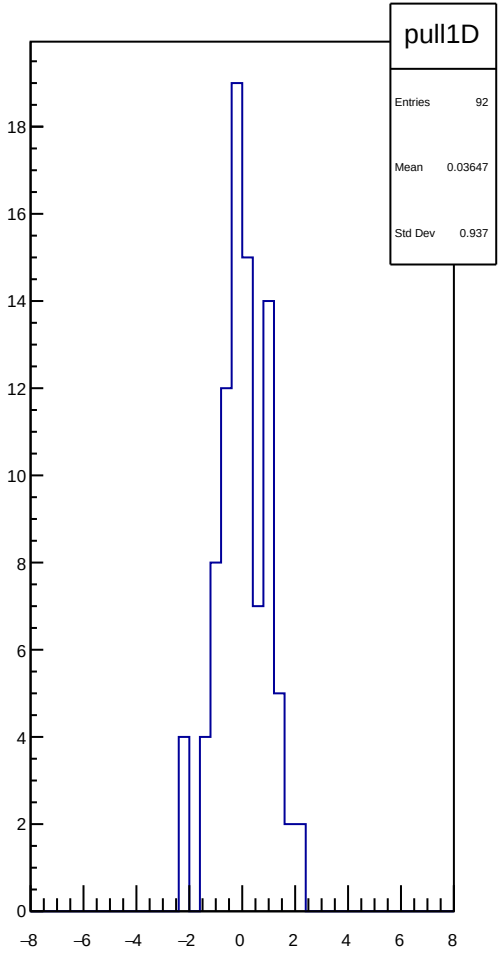

asym_usl_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.93 / 91
p0 −0.03109 ± 0.06371
pull
Entries 92
Mean 61.33
Std Dev 53.95
pull1D
Entries 92
Mean 0.03934
Std Dev 0.9076

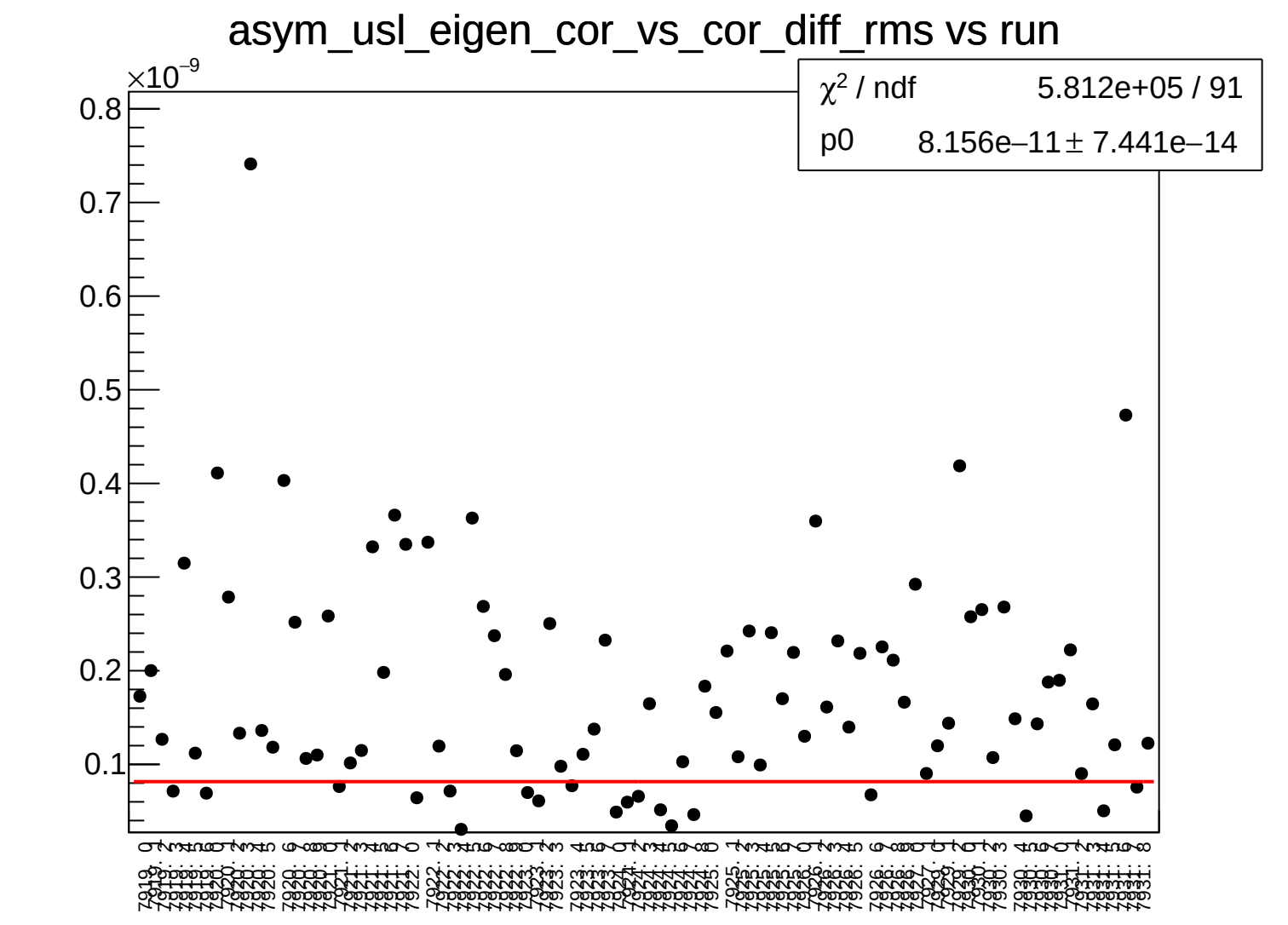

asym_usl_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 9.662e+04 / 91
p0 58.5 ± 0.04505
110
100
90
80
70
60
50
40
30

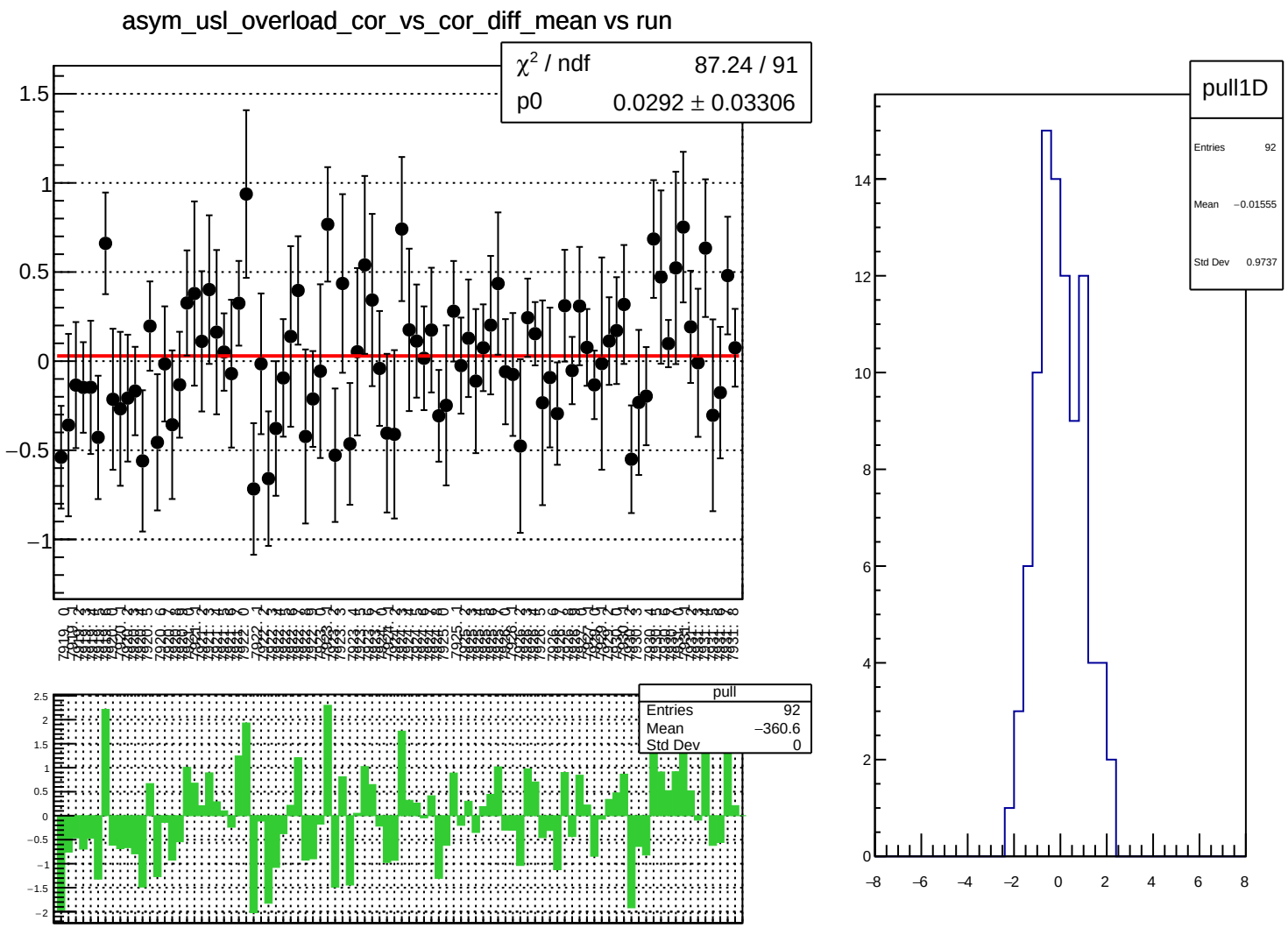

asym_usl_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 85.39 / 91
p0 −0.0476 ± 0.07536
pull
Entries 92
Mean −35.06
Std Dev 0
pull1D
Entries 92
Mean 0.03223
Std Dev 0.9629

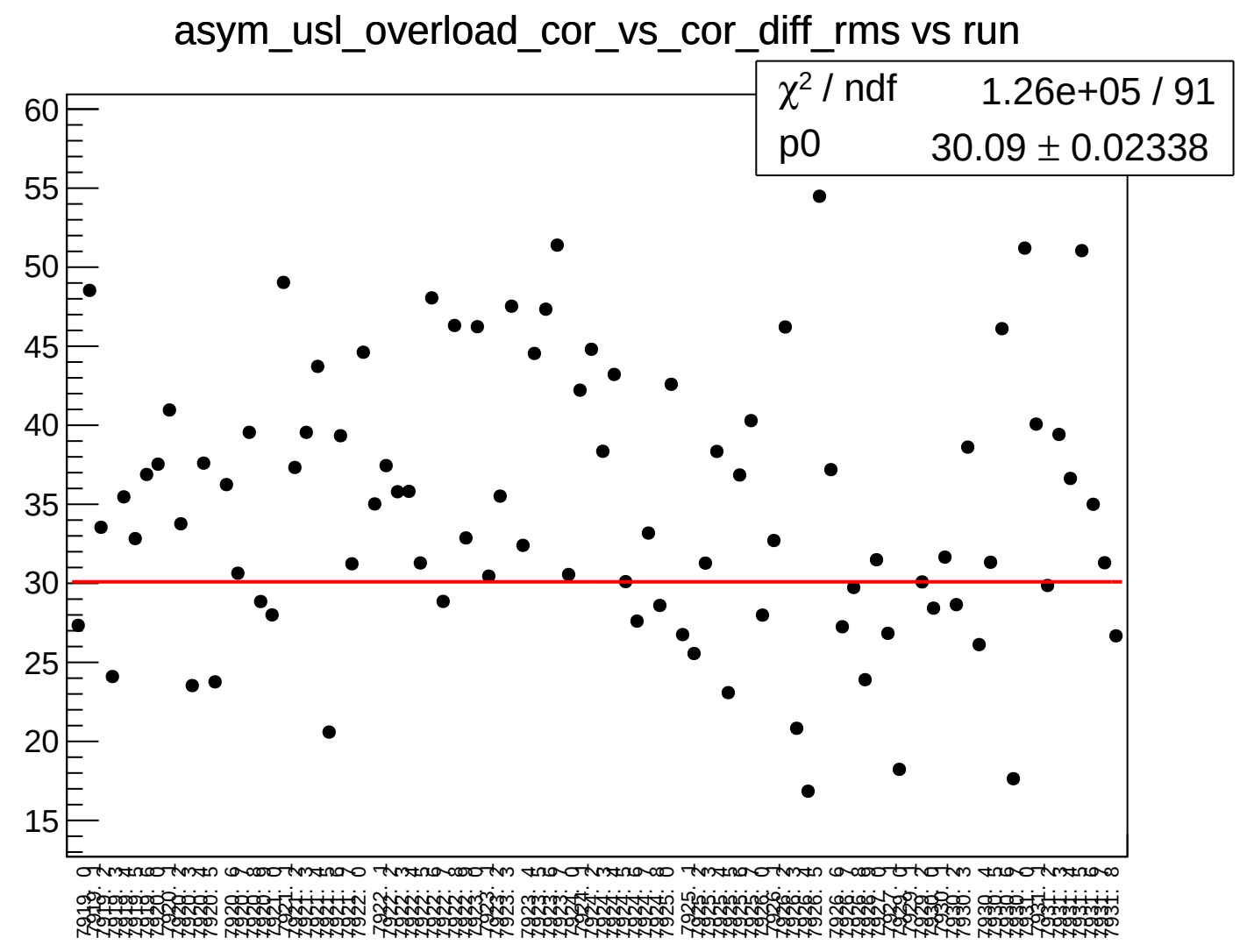

asym_usl_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 5.734e+04 / 91
p0 70 ± 0.05329
120
110
100
90
80
70
60
50

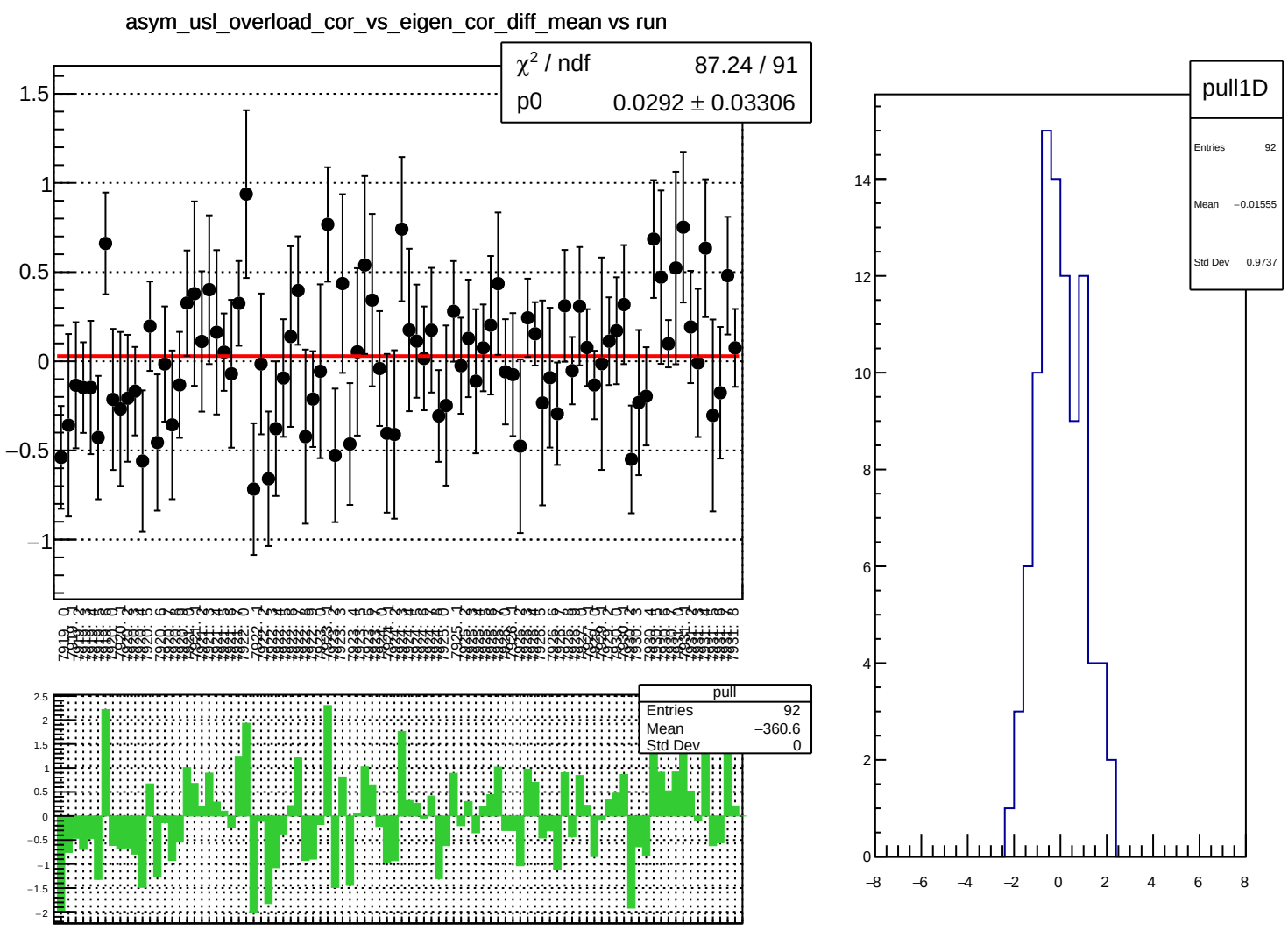

asym_usl_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.89 / 91
p0 1.058e−13 ± 1.052e−13
pull
Entries 92
Mean −10.33
Std Dev 28.67

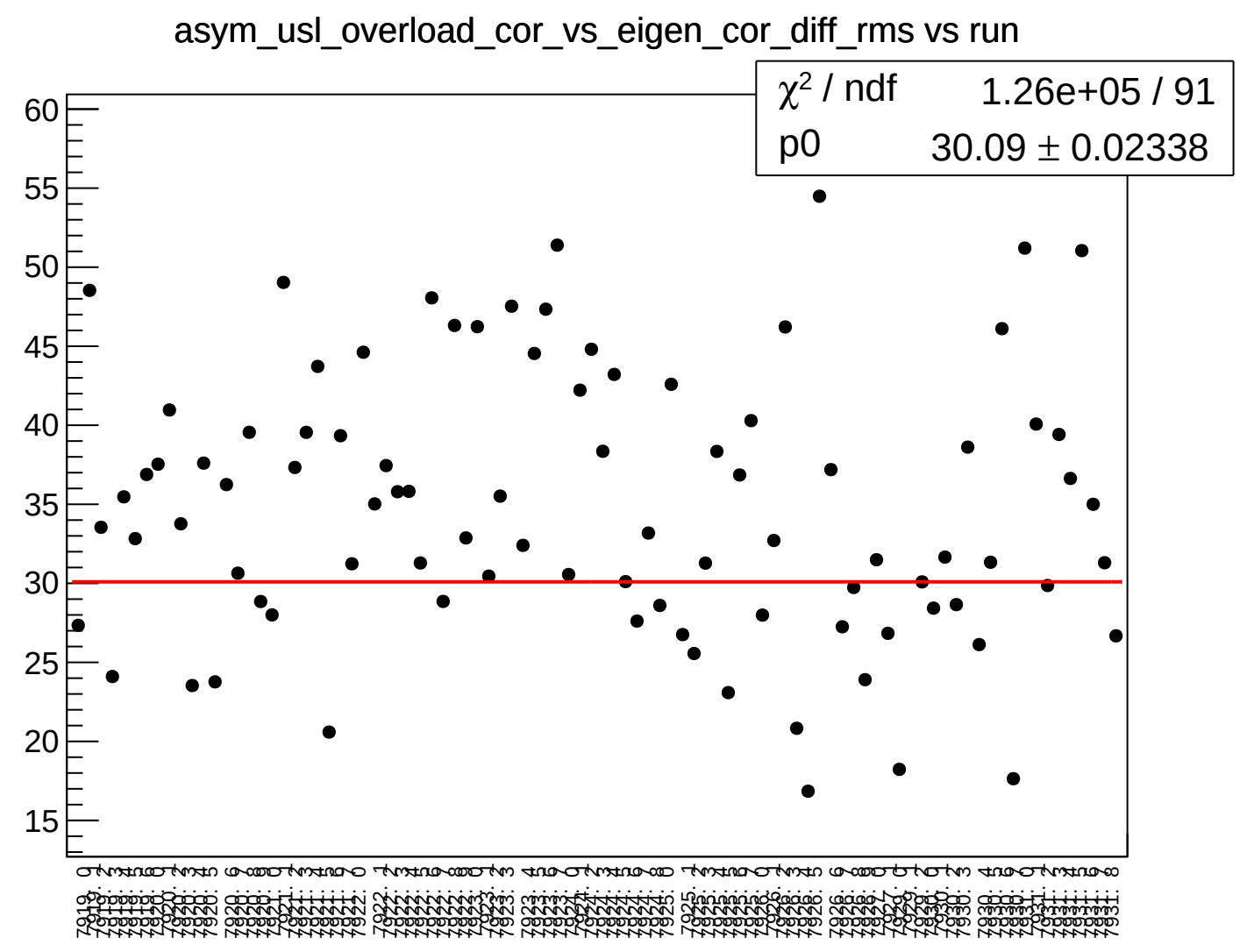

pull1D
Entries 92
Mean 0.03647
Std Dev 0.937

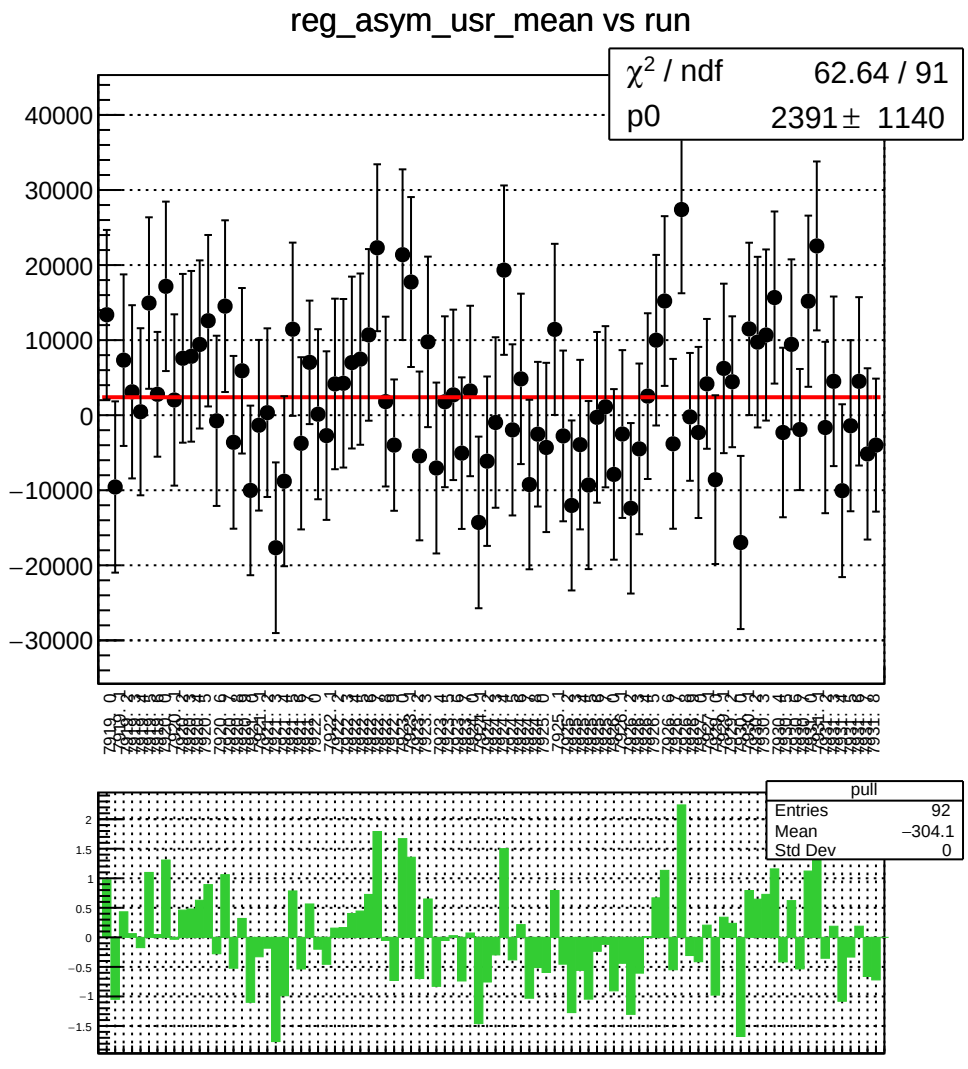

asym_usl_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.812e+05 / 91
p0 8.156e−11 ± 7.441e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

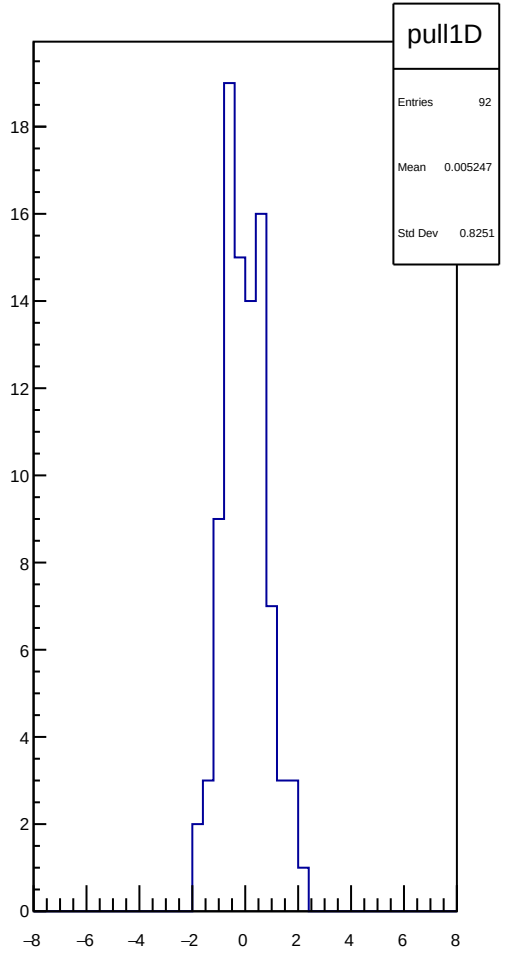

asym_usl_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 87.24 / 91
p0 0.0292 ± 0.03306
pull
Entries 92
Mean −360.6
Std Dev 0
pull1D
Entries 92
Mean −0.01555
Std Dev 0.9737

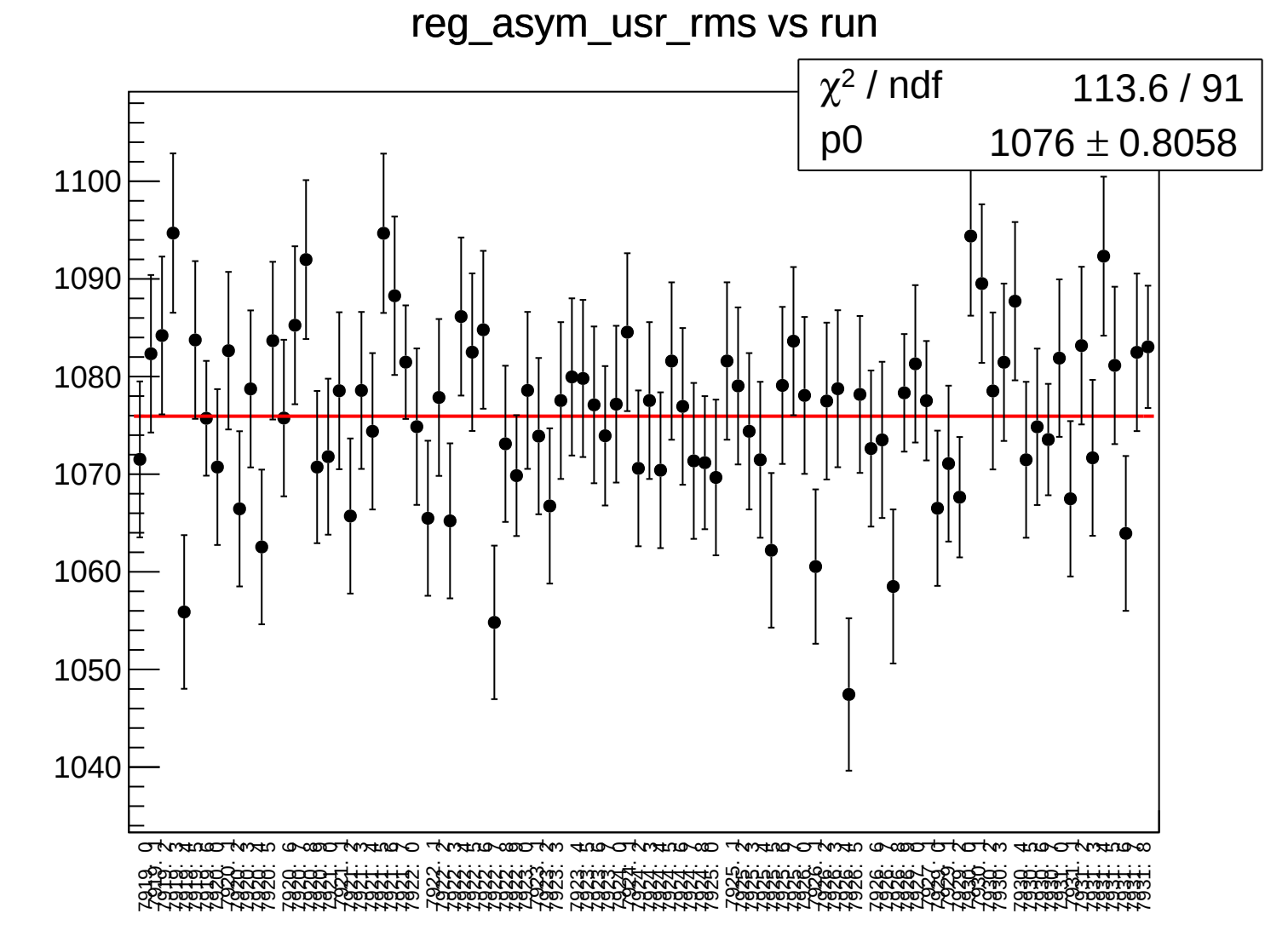

asym_usl_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.26e+05 / 91
p0 30.09 ± 0.02338
60
55
50
45
40
35
30
25
20
15

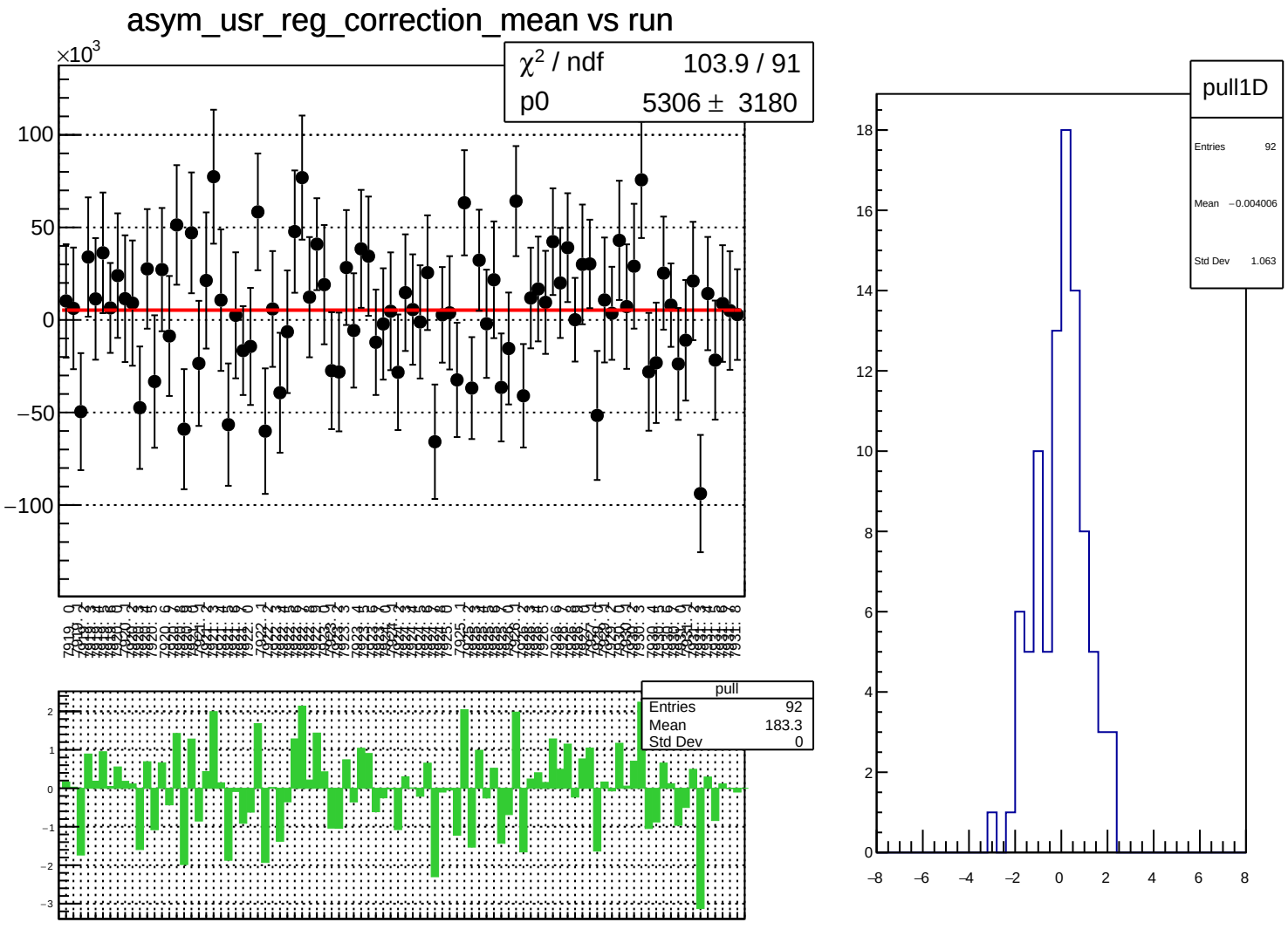

asym_usl_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.24 / 91
p0 0.0292 ± 0.03306
pull
Entries 92
Mean −360.6
Std Dev 0
pull1D
Entries 92
Mean −0.01555
Std Dev 0.9737

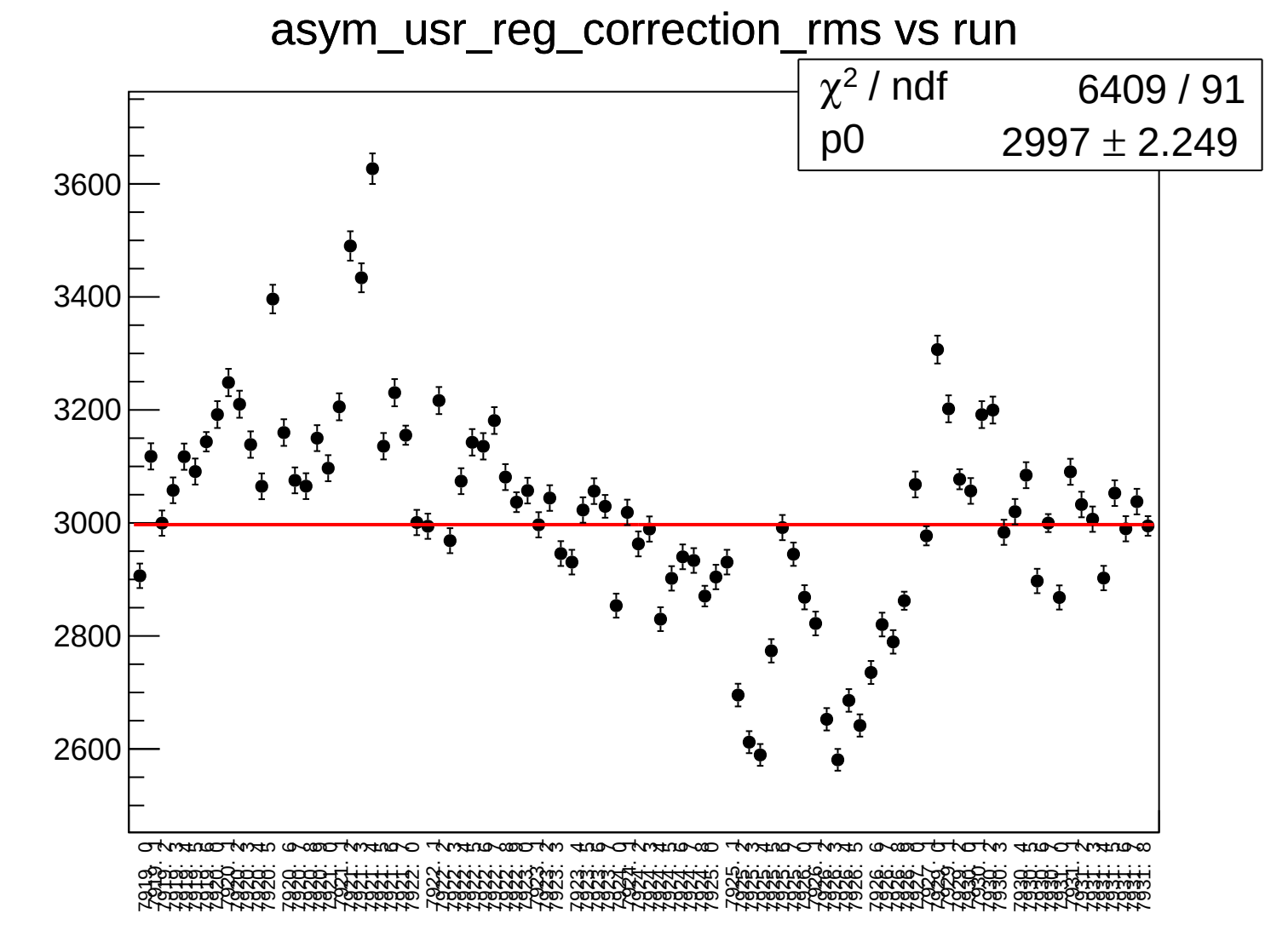

asym_usl_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.26e+05 / 91
p0 30.09 ± 0.02338
60
55
50
45
40
35
30
25
20
15

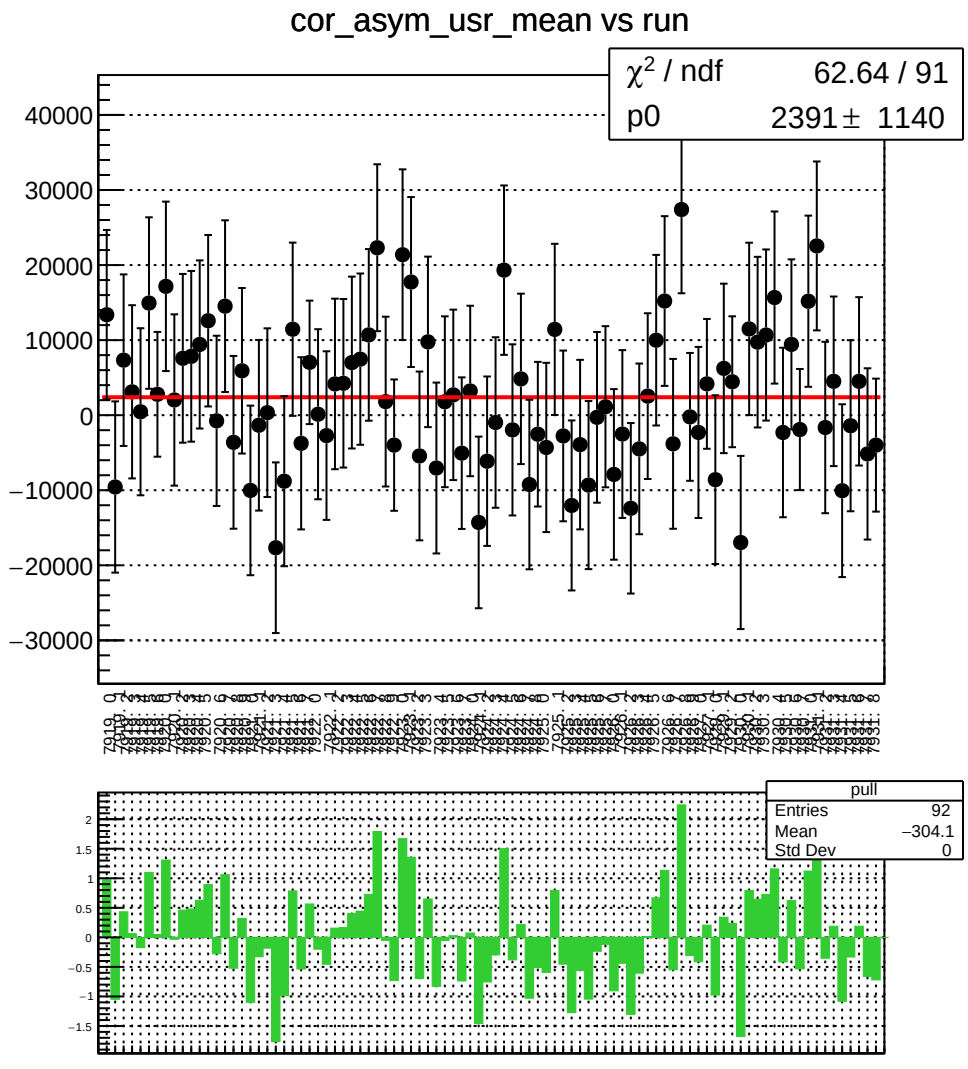

reg_asym_usr_mean vs run
χ² / ndf 62.64 / 91
p0 2391 ± 1140
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −304.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

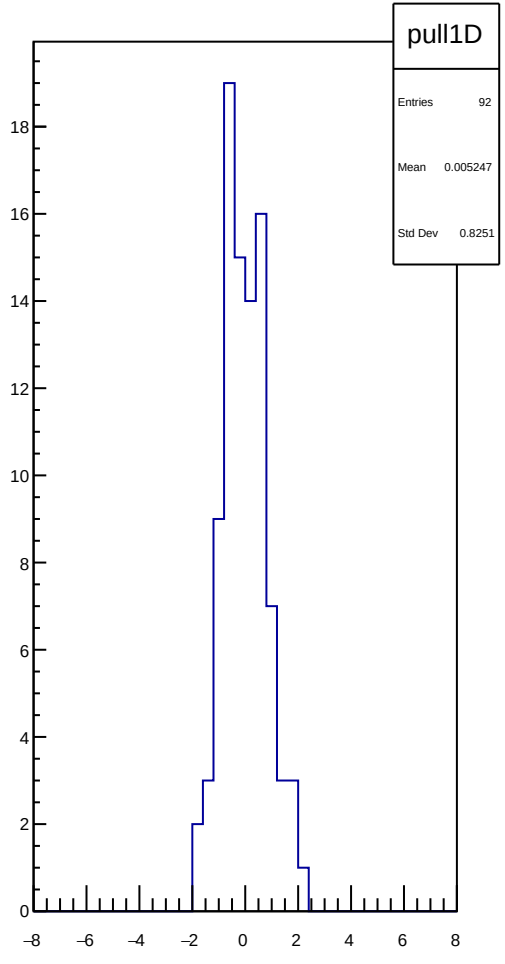

pull1D
Entries 92
Mean 0.005247
Std Dev 0.8251
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

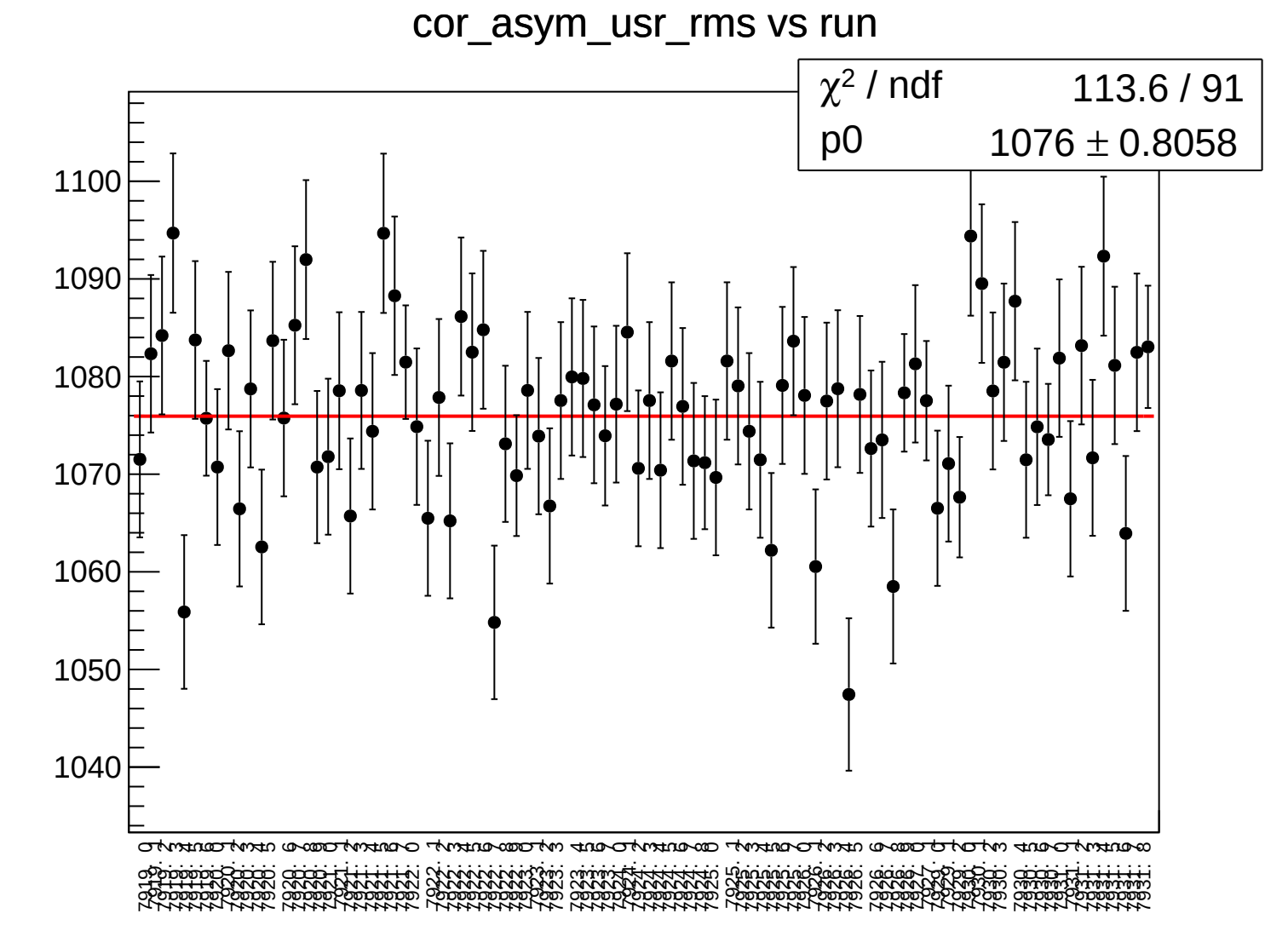

reg_asym_usr_rms vs run
χ² / ndf 113.6 / 91
p0 1076 ± 0.8058
1100
1090
1080
1070
1060
1050
1040

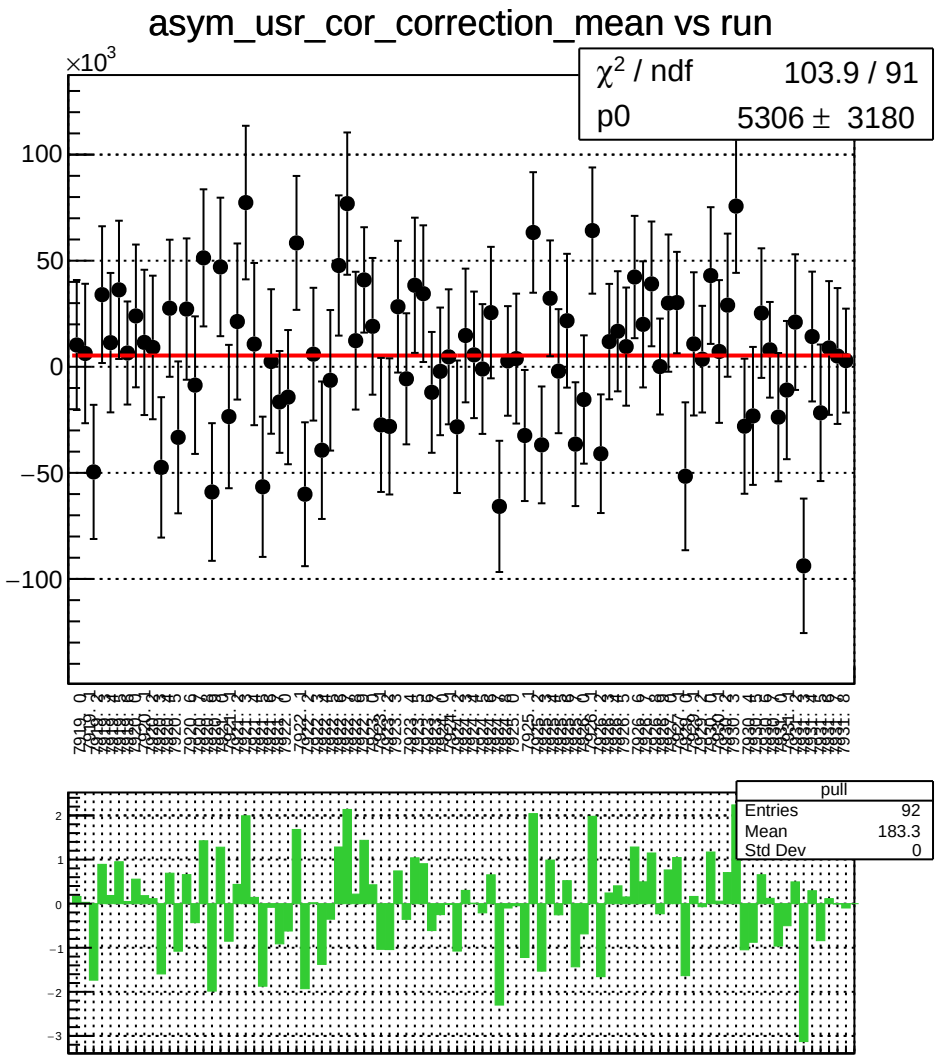

asym_usr_reg_correction_mean vs run
×10^3
χ^2 / ndf 103.9 / 91
p0 5306 ± 3180
100
50
0
−50
−100
pull
Entries 92
Mean 183.3
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.004006
Std Dev 1.063
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

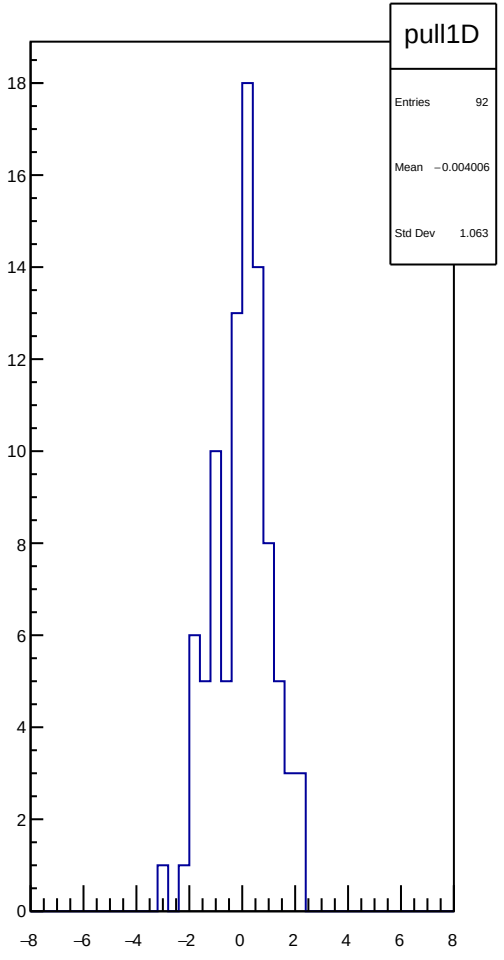

asym_usr_reg_correction_rms vs run
χ² / ndf 6409 / 91
p0 2997 ± 2.249
3600
3400
3200
3000
2800
2600

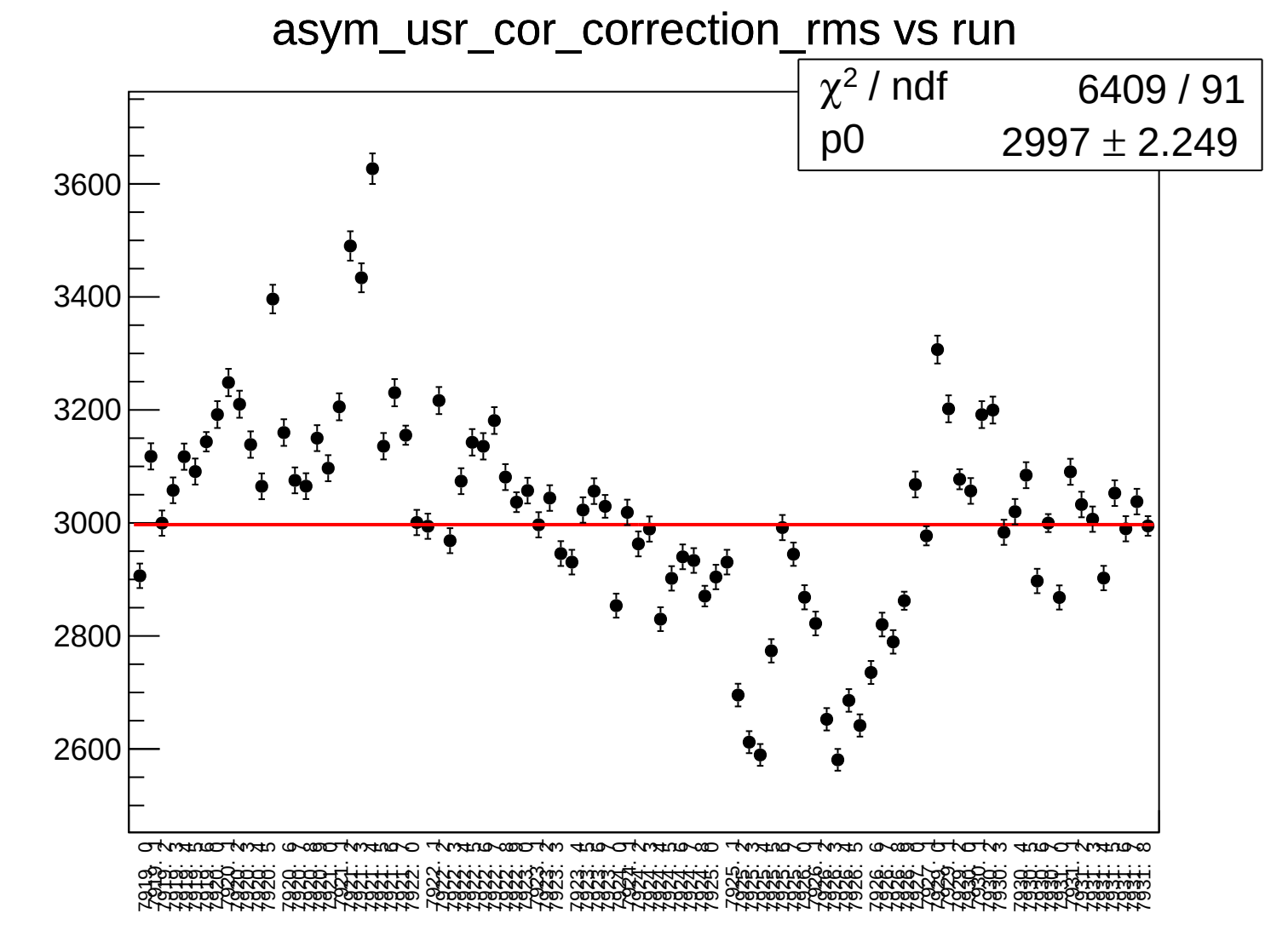

cor_asym_usr_mean vs run
χ² / ndf 62.64 / 91
p0 2391 ± 1140
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −304.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

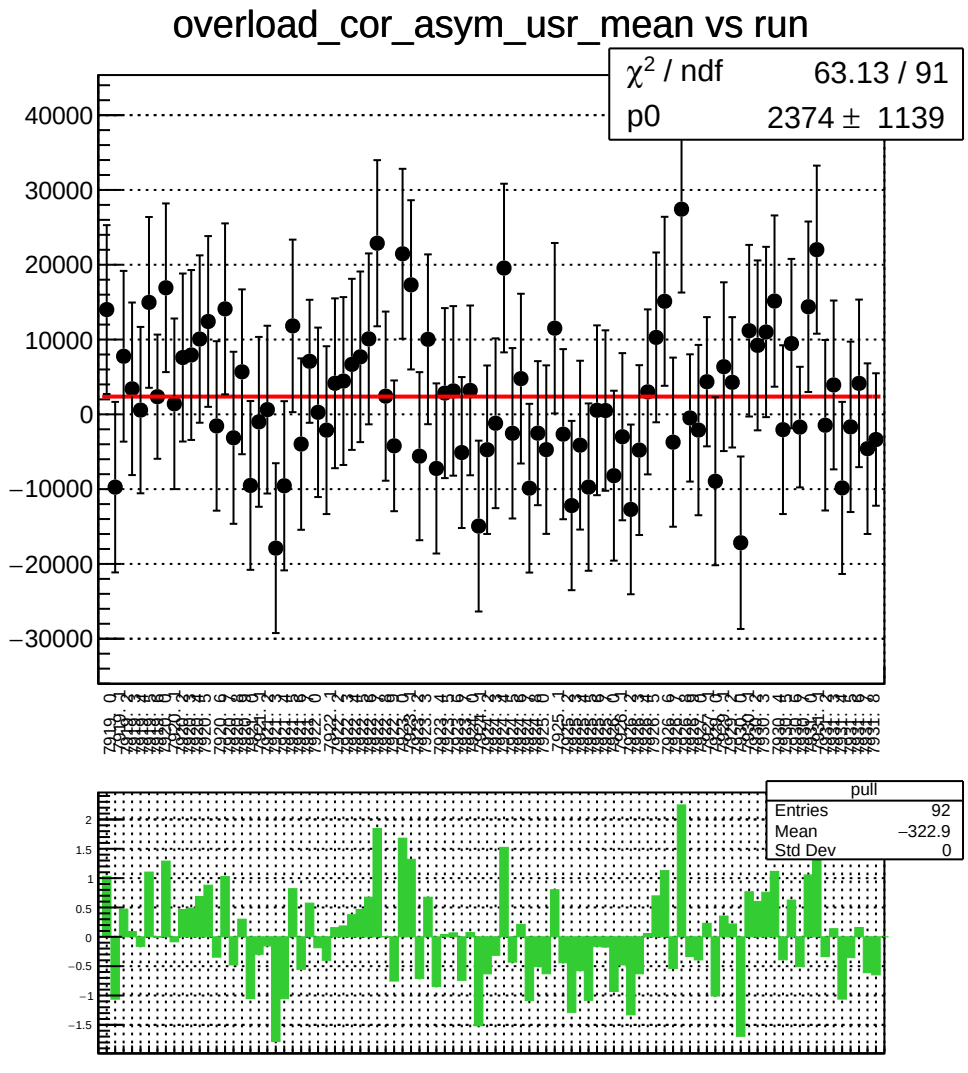

pull1D
Entries 92
Mean 0.005247
Std Dev 0.8251
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

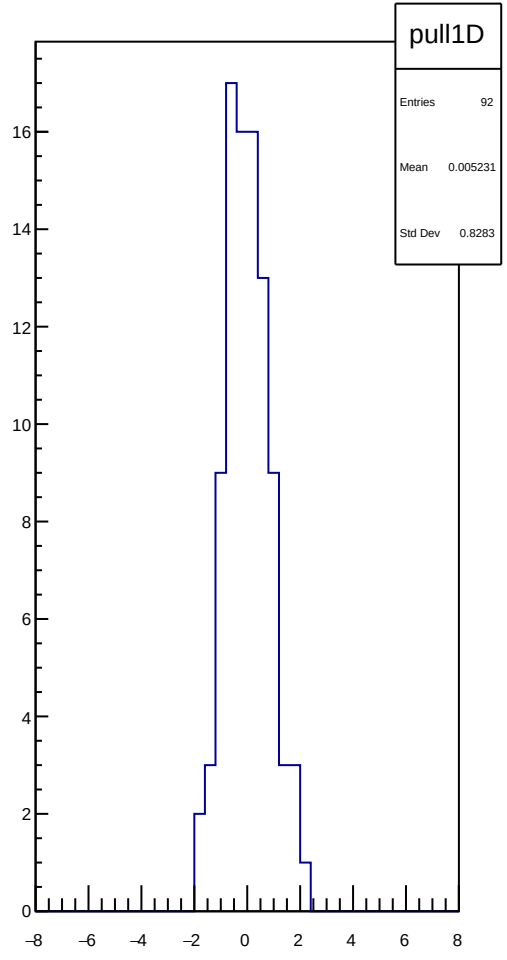

cor_asym_usr_rms vs run
χ² / ndf 113.6 / 91
p0 1076 ± 0.8058
1100
1090
1080
1070
1060
1050
1040

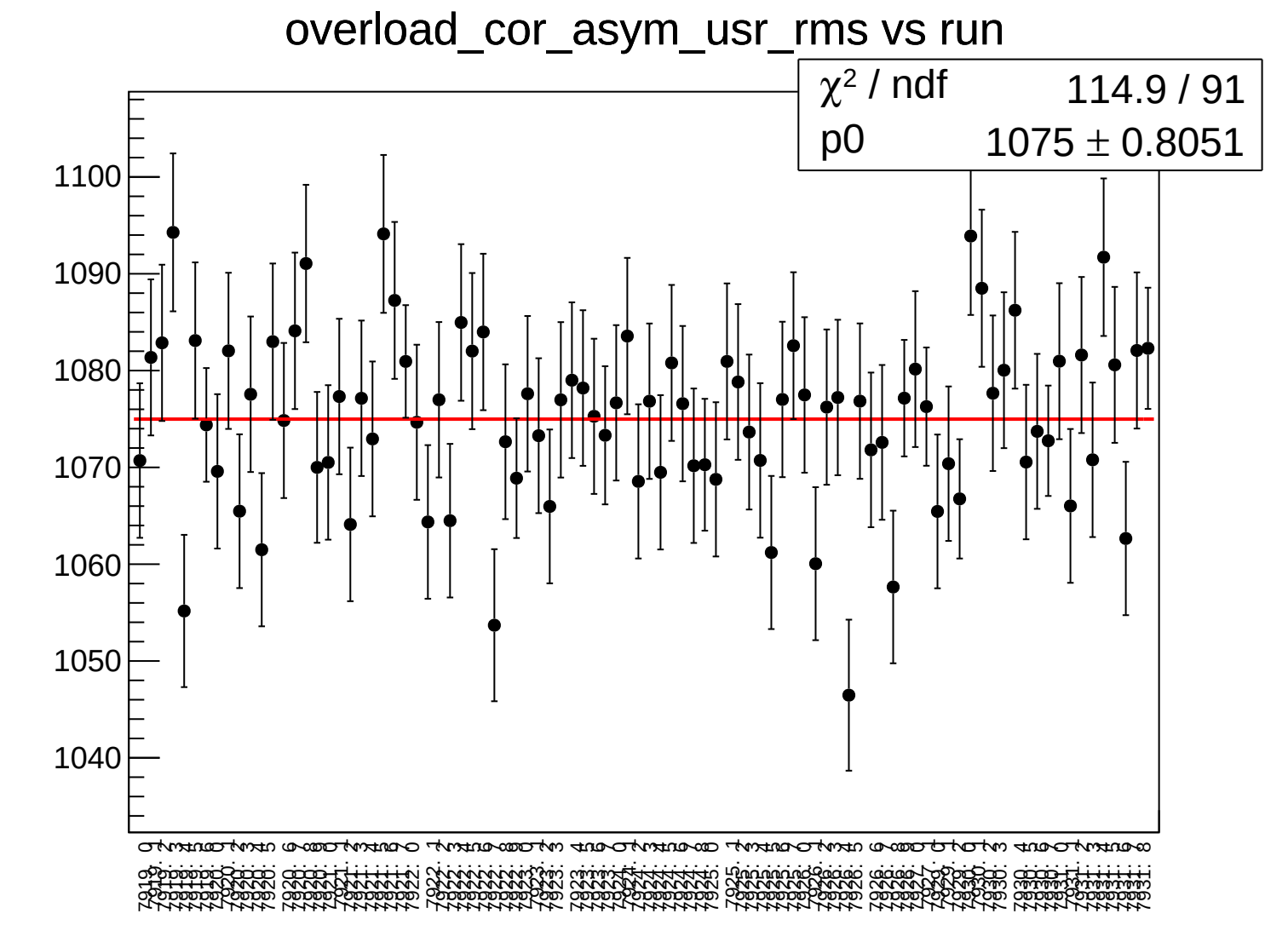

asym_usr_cor_correction_mean vs run
×10^3
χ^2 / ndf 103.9 / 91
p0 5306 ± 3180
100
50
0
−50
−100
pull
Entries 92
Mean 183.3
Std Dev 0
2
1
0
−1
−2
−3

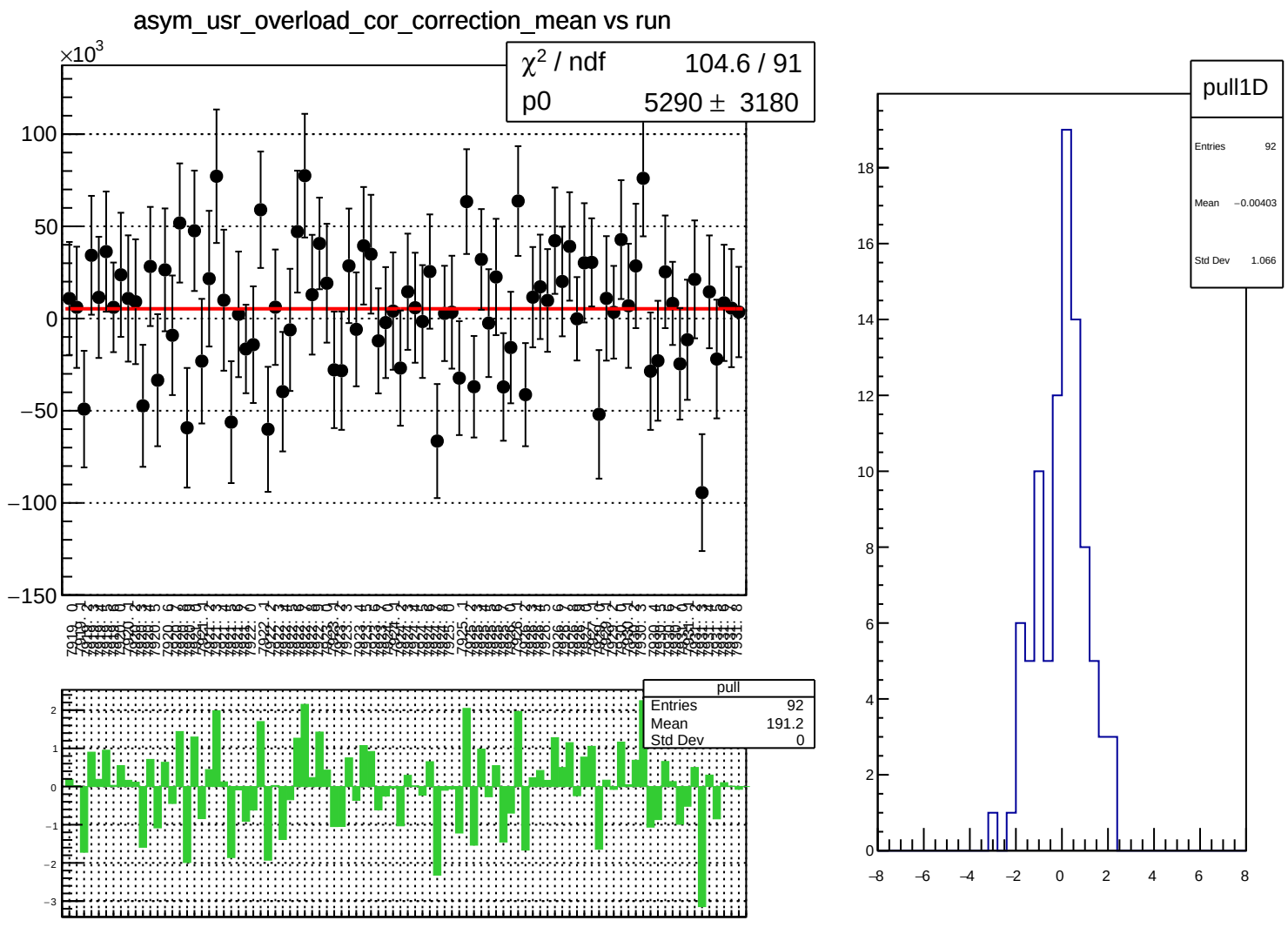

pull1D
Entries 92
Mean −0.004006
Std Dev 1.063
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

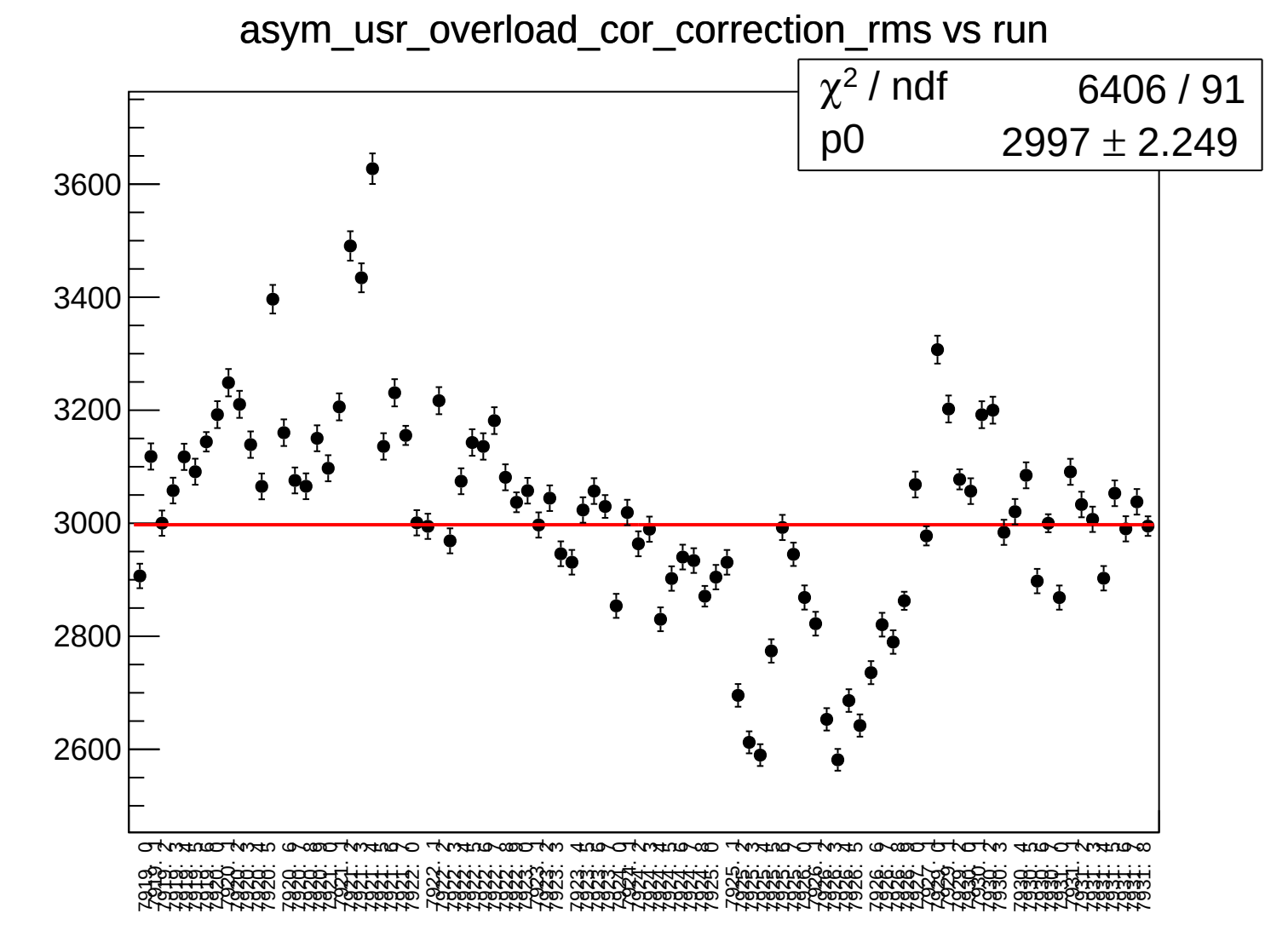

asym_usr_cor_correction_rms vs run
χ² / ndf 6409 / 91
p0 2997 ± 2.249
3600
3400
3200
3000
2800
2600

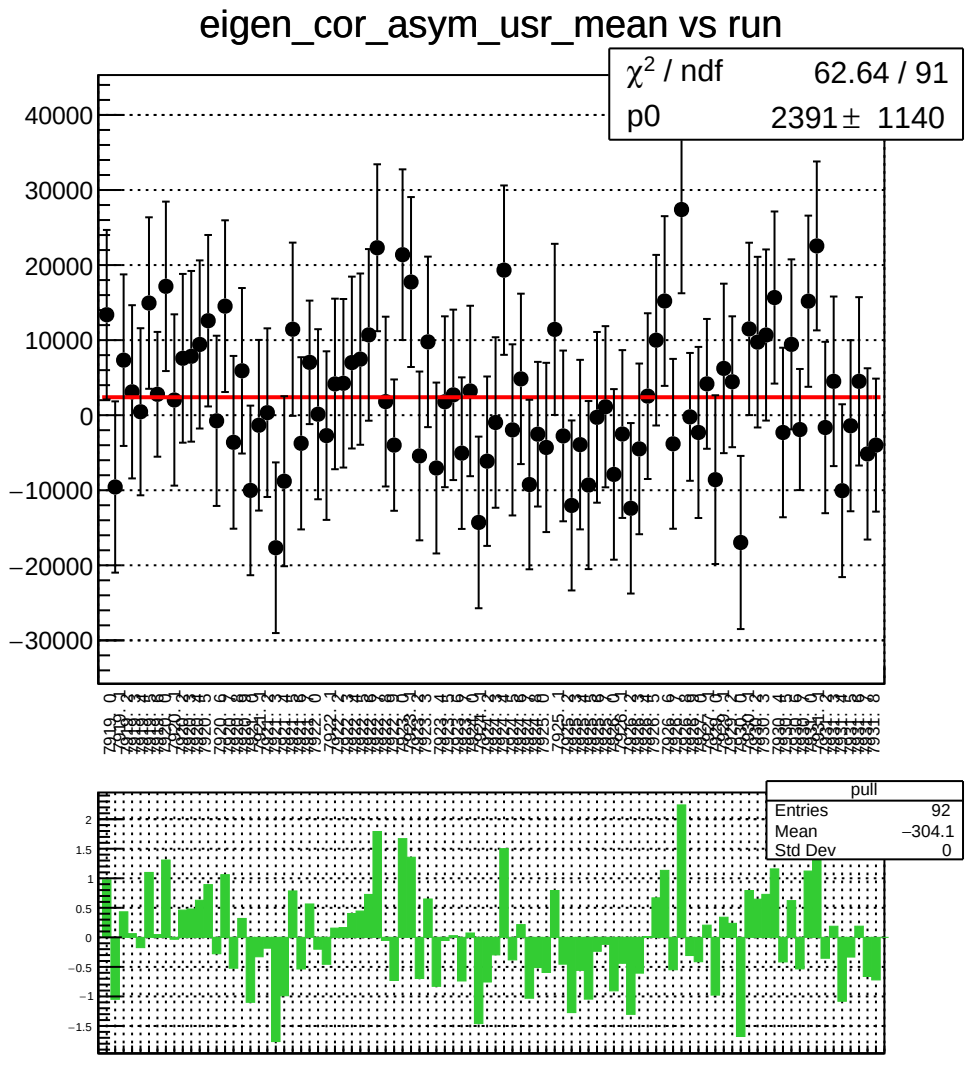

overload_cor_asym_usr_mean vs run
χ² / ndf 63.13 / 91
p0 2374 ± 1139
pull
Entries 92
Mean −322.9
Std Dev 0

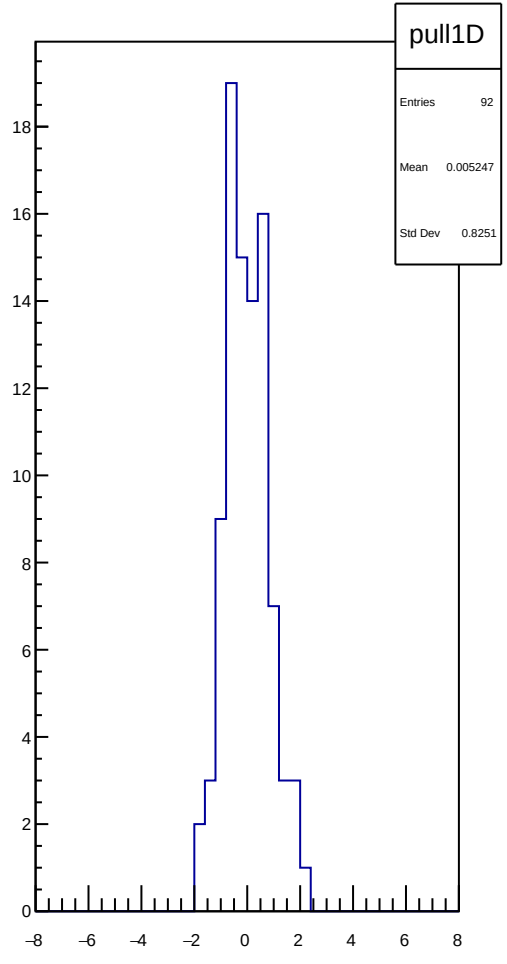

pull1D
Entries 92
Mean 0.005231
Std Dev 0.8283

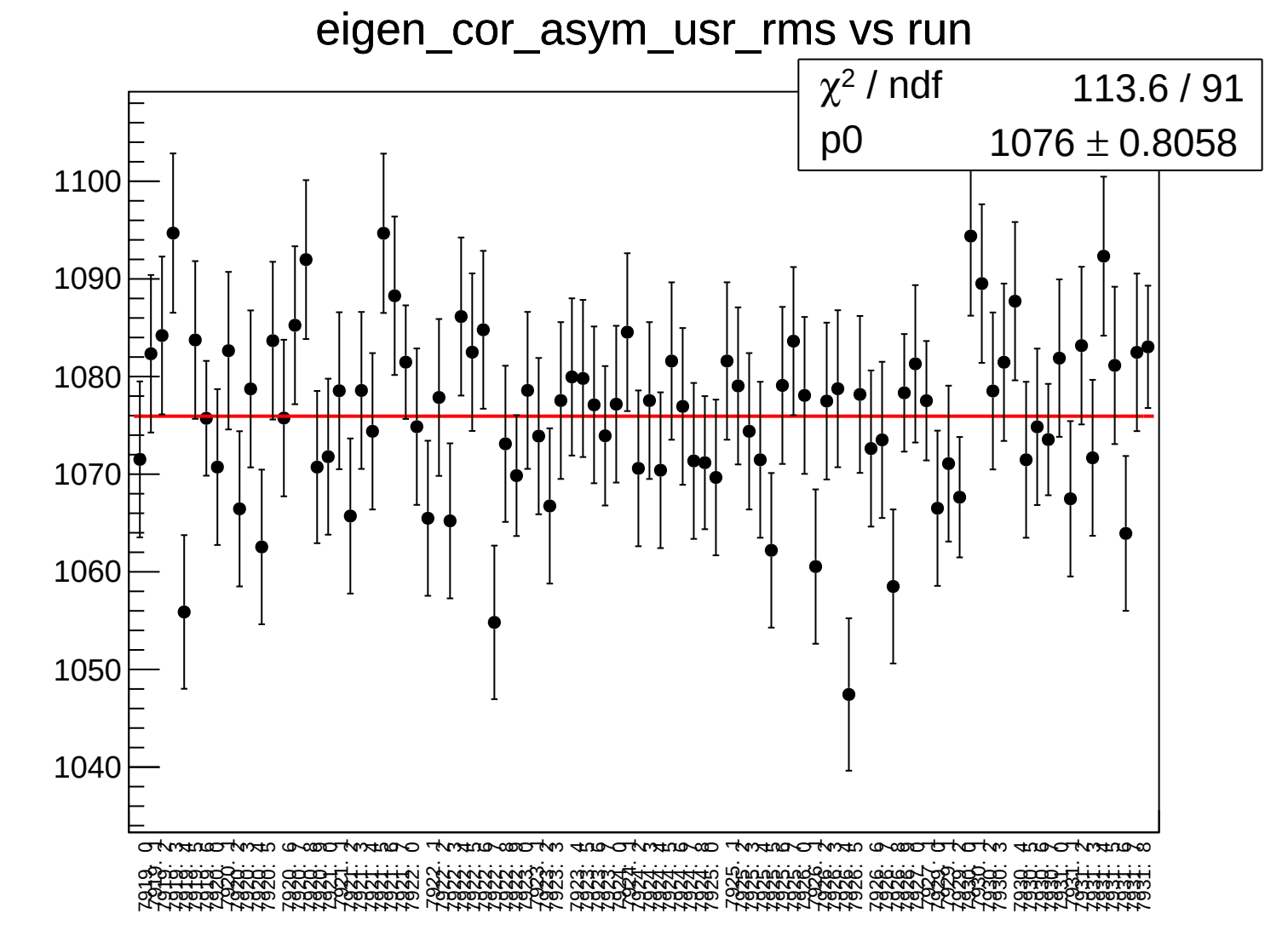

overload_cor_asym_usr_rms vs run
χ² / ndf 114.9 / 91
p0 1075 ± 0.8051
1100
1090
1080
1070
1060
1050
1040

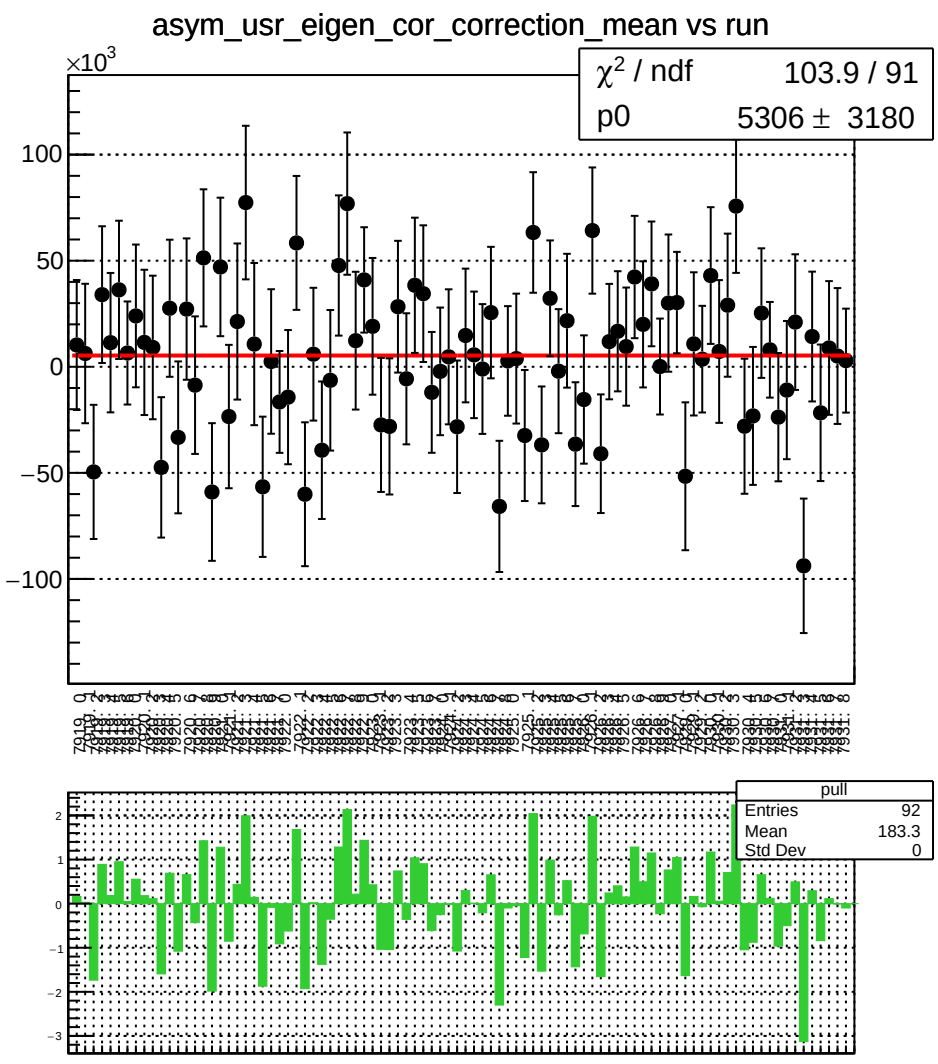

asym_usr_overload_cor_correction_mean vs run
×10^3
χ^2 / ndf 104.6 / 91
p0 5290 ± 3180
100
50
0
−50
−100
−150
pull
Entries 92
Mean 191.2
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.00403
Std Dev 1.066
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

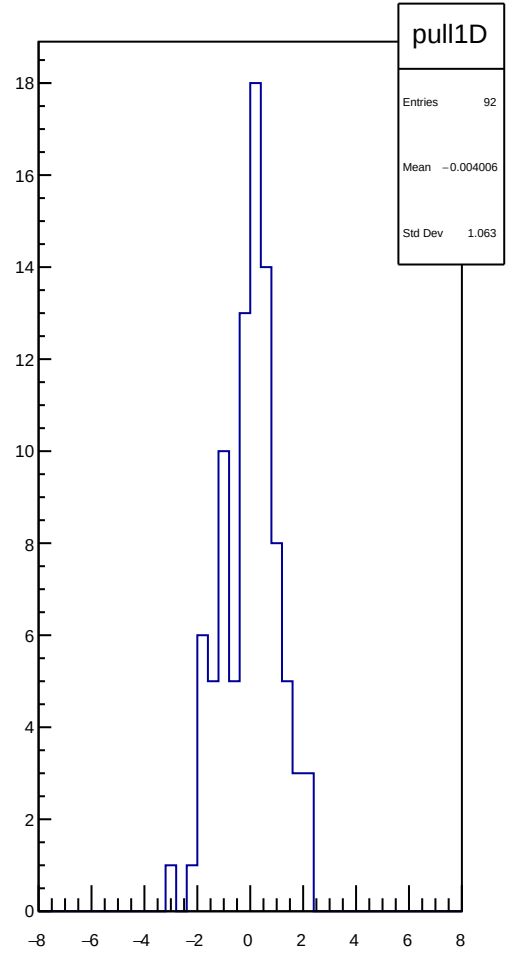

asym_usr_overload_cor_correction_rms vs run
χ² / ndf 6406 / 91
p0 2997 ± 2.249
3600
3400
3200
3000
2800
2600

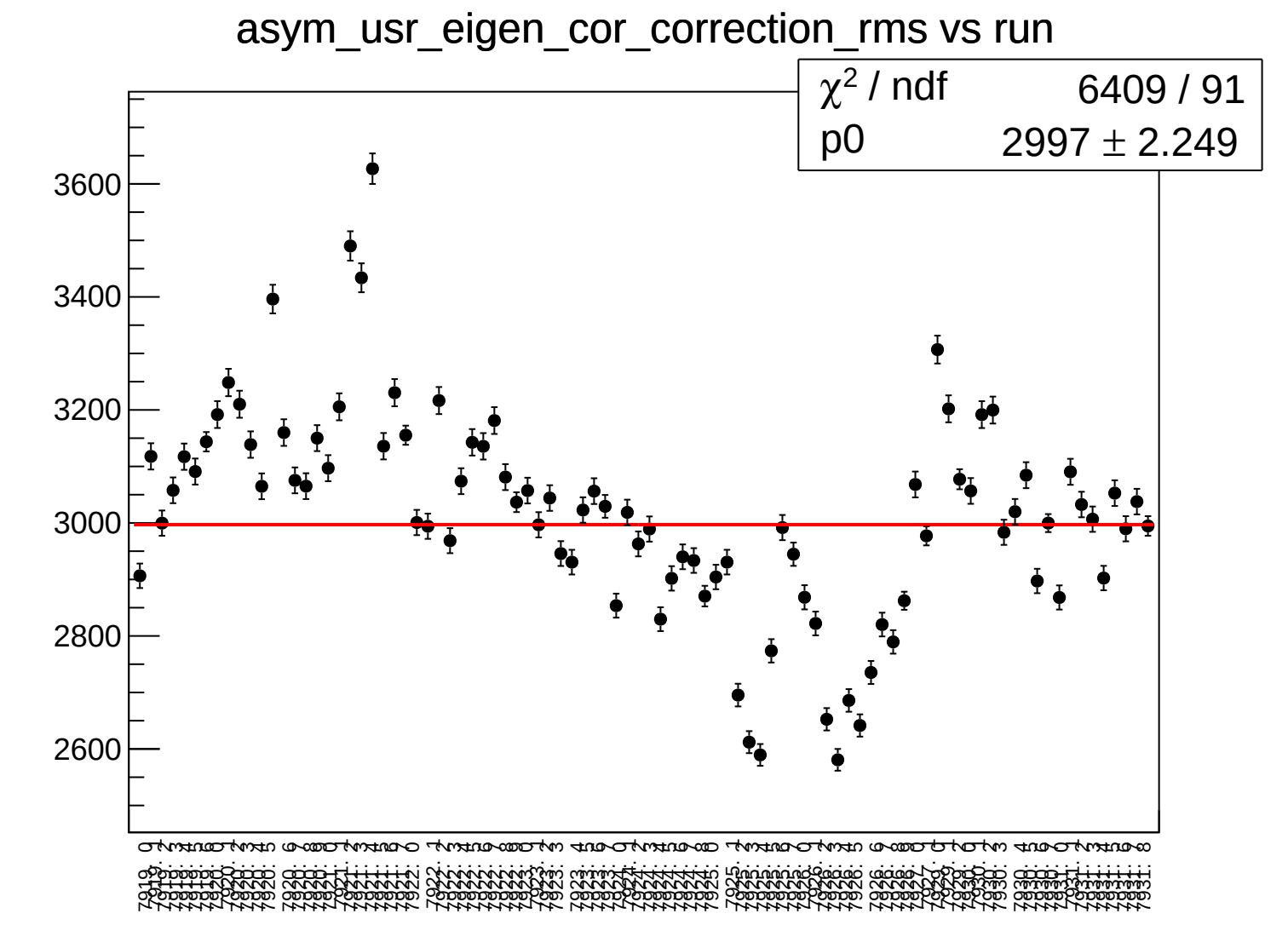

eigen_cor_asym_usr_mean vs run
χ² / ndf 62.64 / 91
p0 2391 ± 1140
pull
Entries 92
Mean −304.1
Std Dev 0

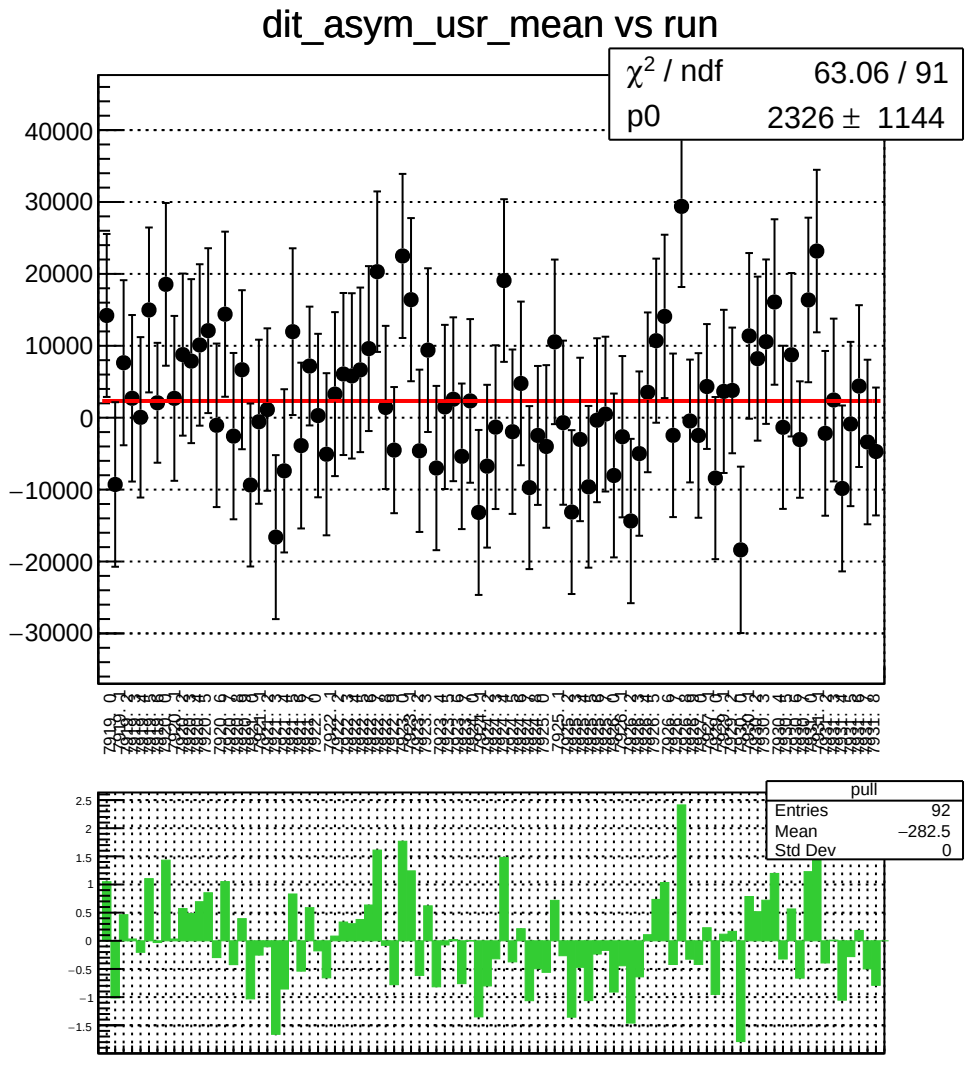

pull1D
Entries 92
Mean 0.005247
Std Dev 0.8251

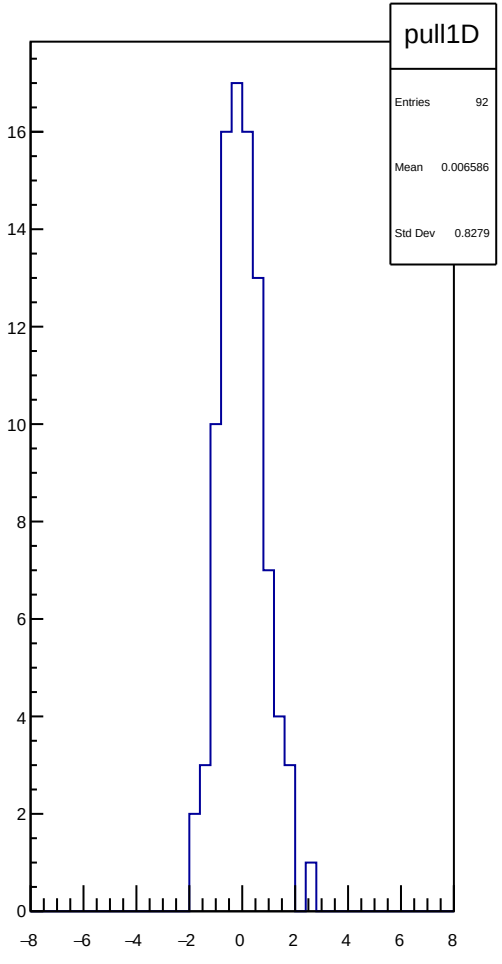

eigen_cor_asym_usr_rms vs run
χ² / ndf 113.6 / 91
p0 1076 ± 0.8058
1100
1090
1080
1070
1060
1050
1040

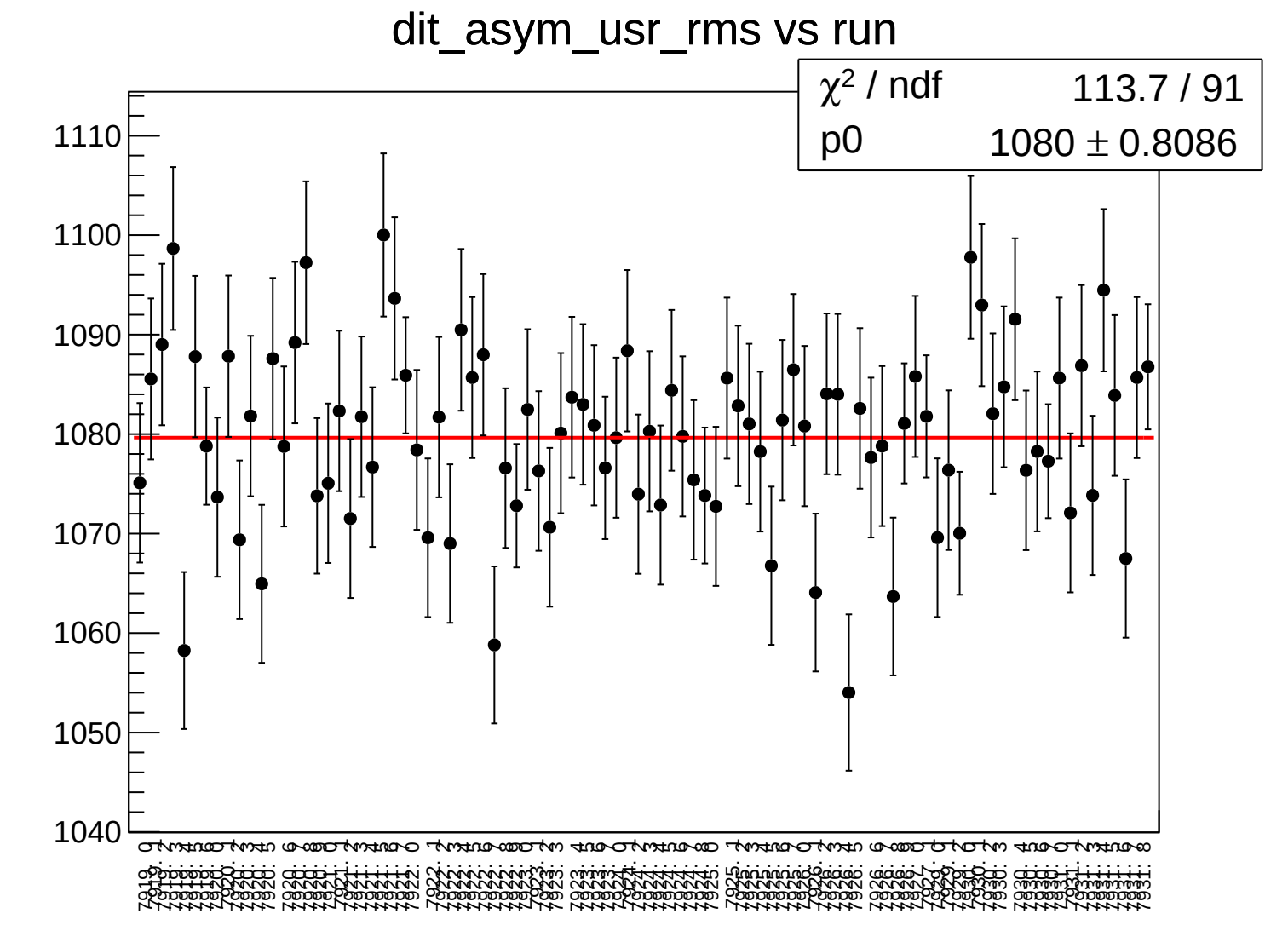

asym_usr_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 103.9 / 91
p0 5306 ± 3180
100
50
0
−50
−100
pull
Entries 92
Mean 183.3
Std Dev 0
2
1
0
−1
−2
−3

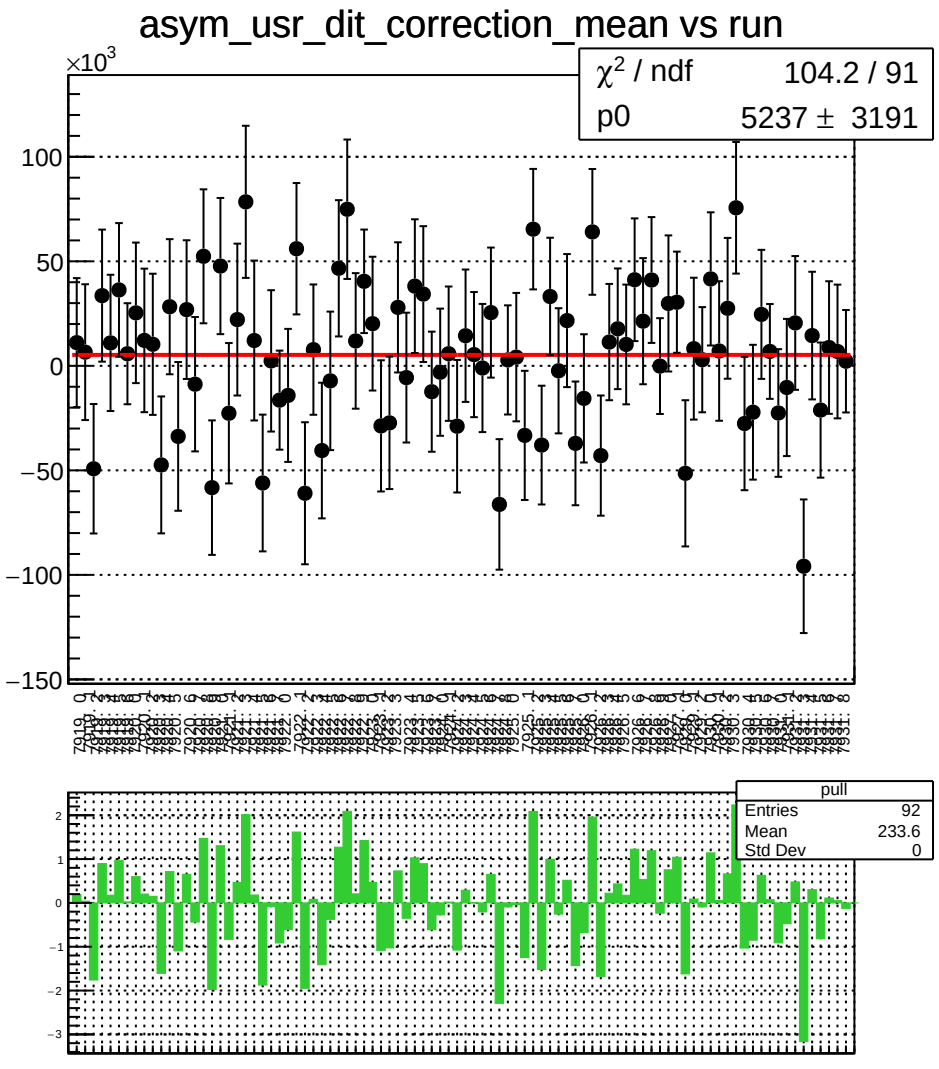

pull1D
Entries 92
Mean −0.004006
Std Dev 1.063
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

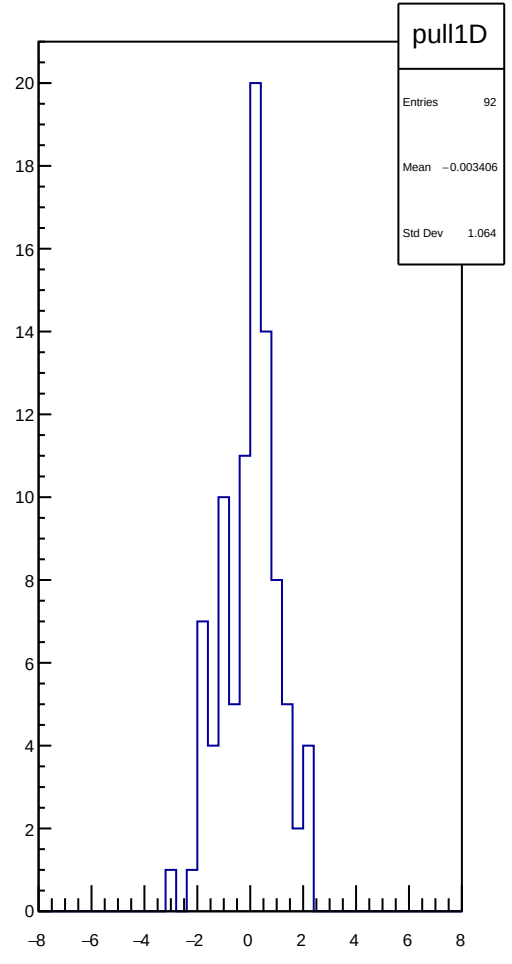

asym_usr_eigen_cor_correction_rms vs run
χ² / ndf 6409 / 91
p0 2997 ± 2.249
3600
3400
3200
3000
2800
2600

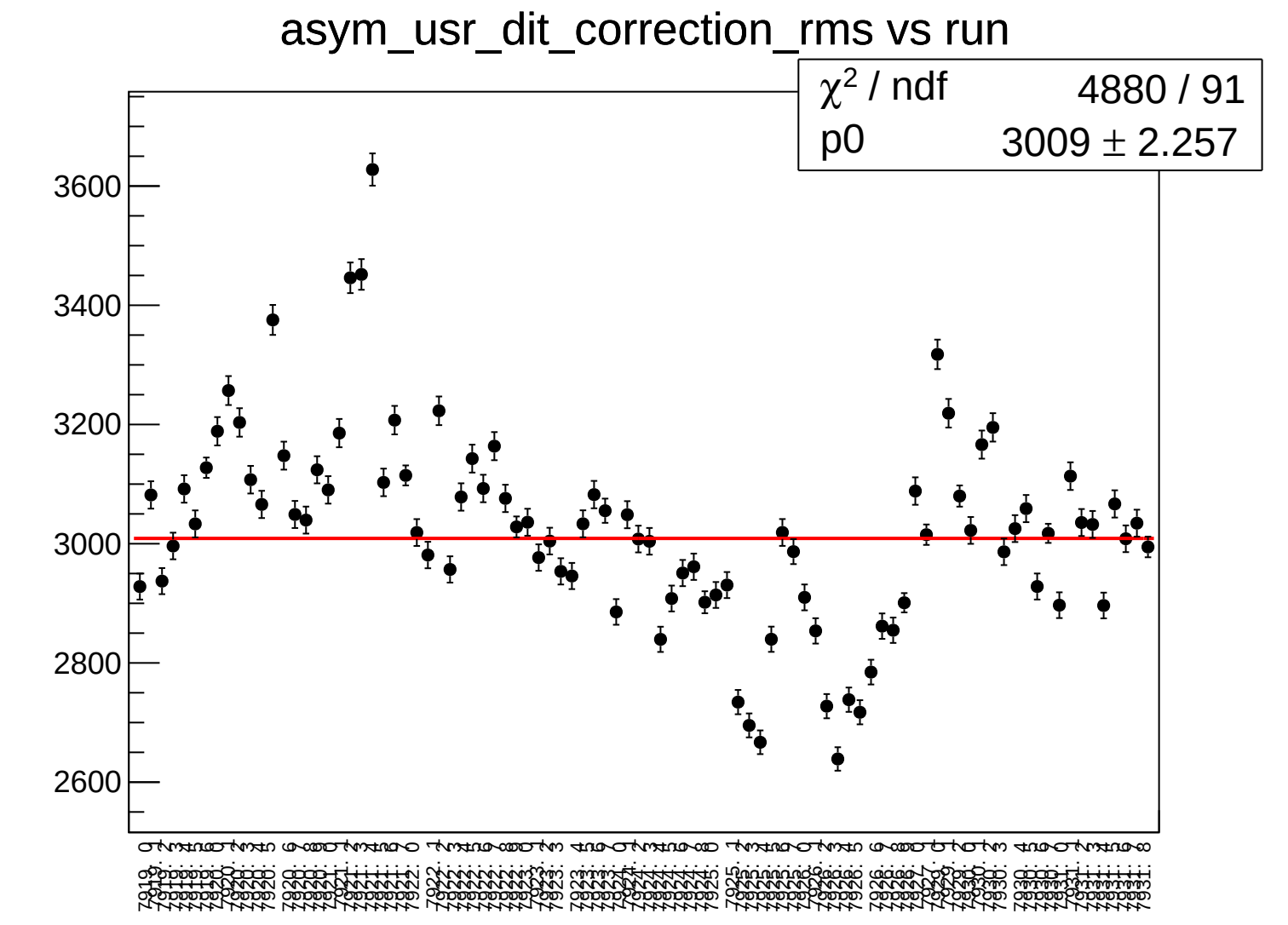

dit_asym_usr_mean vs run
χ² / ndf 63.06 / 91
p0 2326 ± 1144
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −282.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

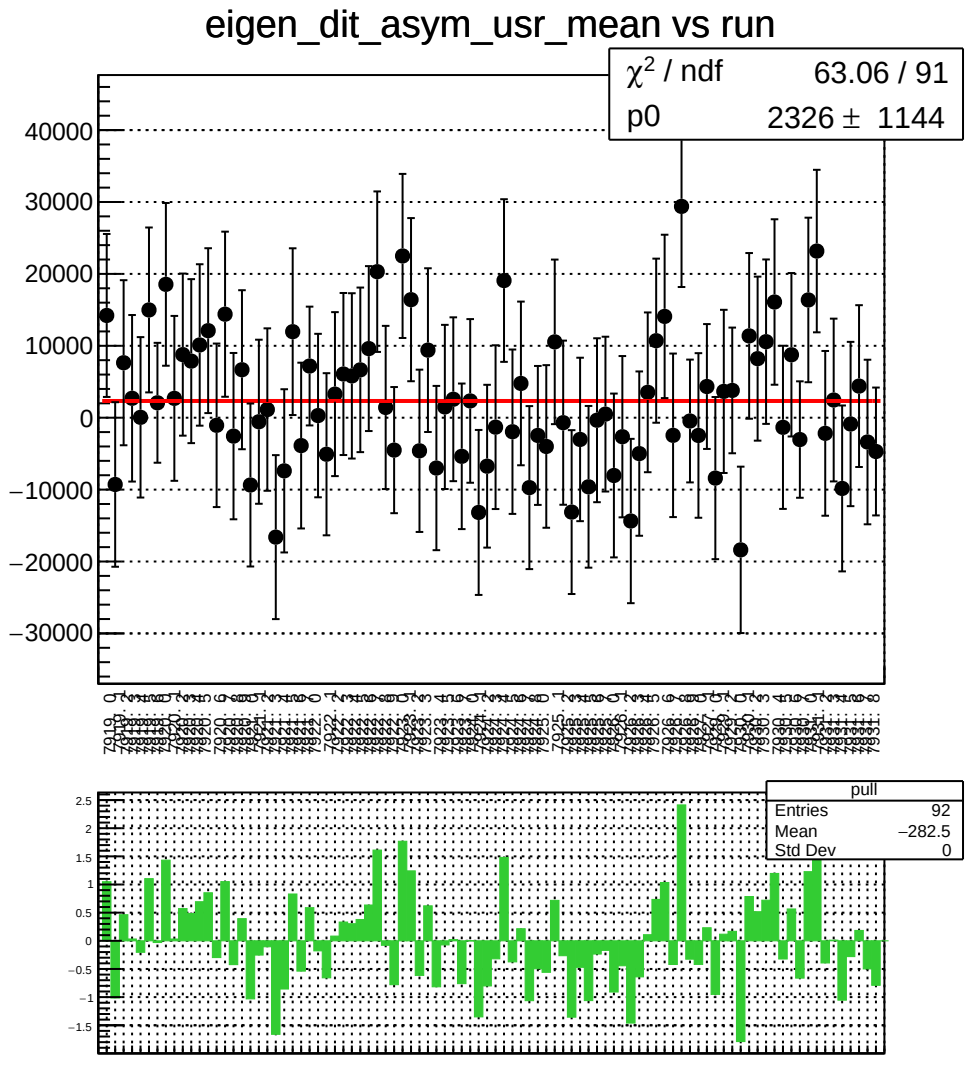

pull1D
Entries 92
Mean 0.006586
Std Dev 0.8279
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

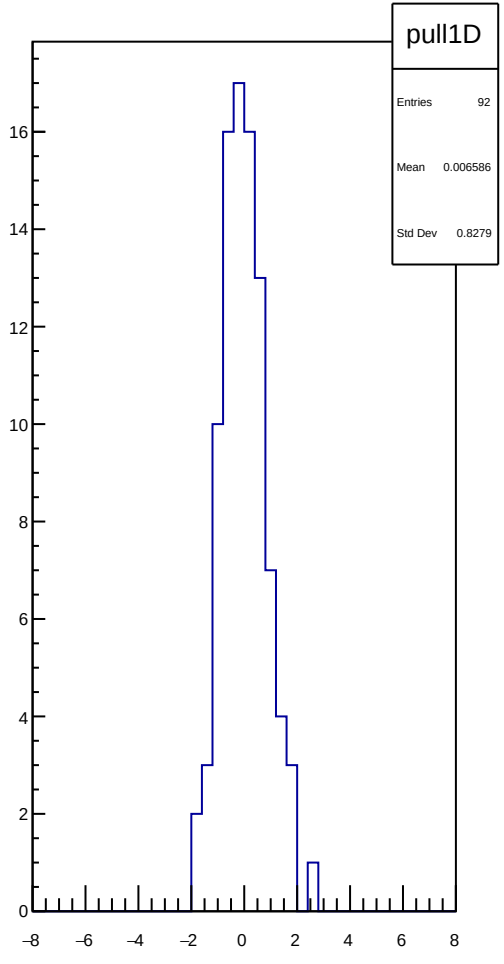

dit_asym_usr_rms vs run
χ² / ndf 113.7 / 91
p0 1080 ± 0.8086
1110
1100
1090
1080
1070
1060
1050
1040

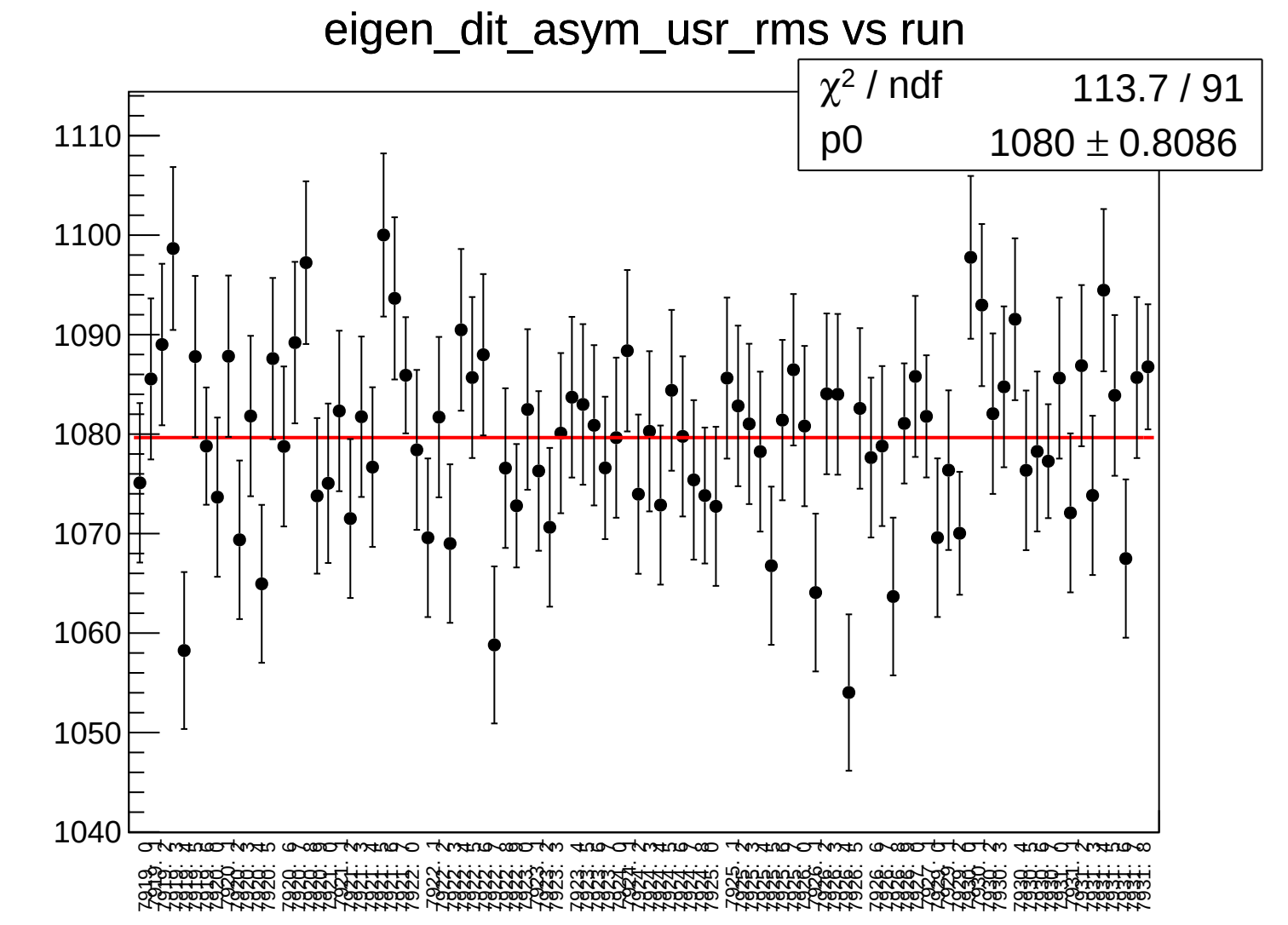

asym_usr_dit_correction_mean vs run
×10^3
χ² / ndf 104.2 / 91
p0 5237 ± 3191
100
50
0
−50
−100
−150
pull
Entries 92
Mean 233.6
Std Dev 0
2
1
0
−1
−2
−3

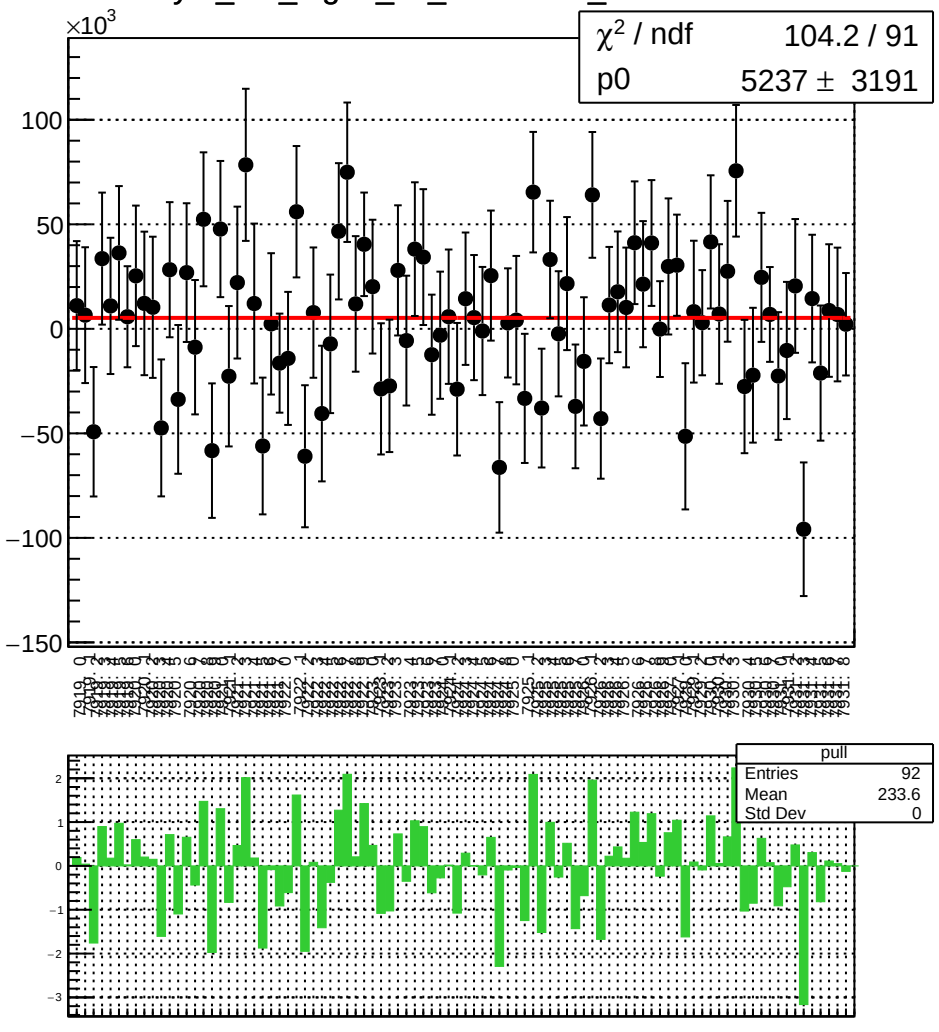

pull1D
Entries 92
Mean −0.003406
Std Dev 1.064
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

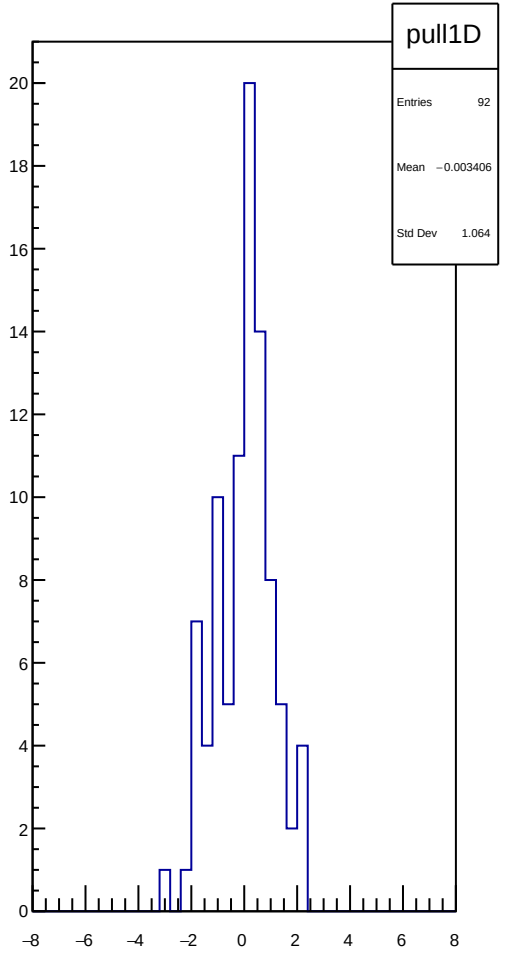

asym_usr_dit_correction_rms vs run
χ² / ndf 4880 / 91
p0 3009 ± 2.257
3600
3400
3200
3000
2800
2600

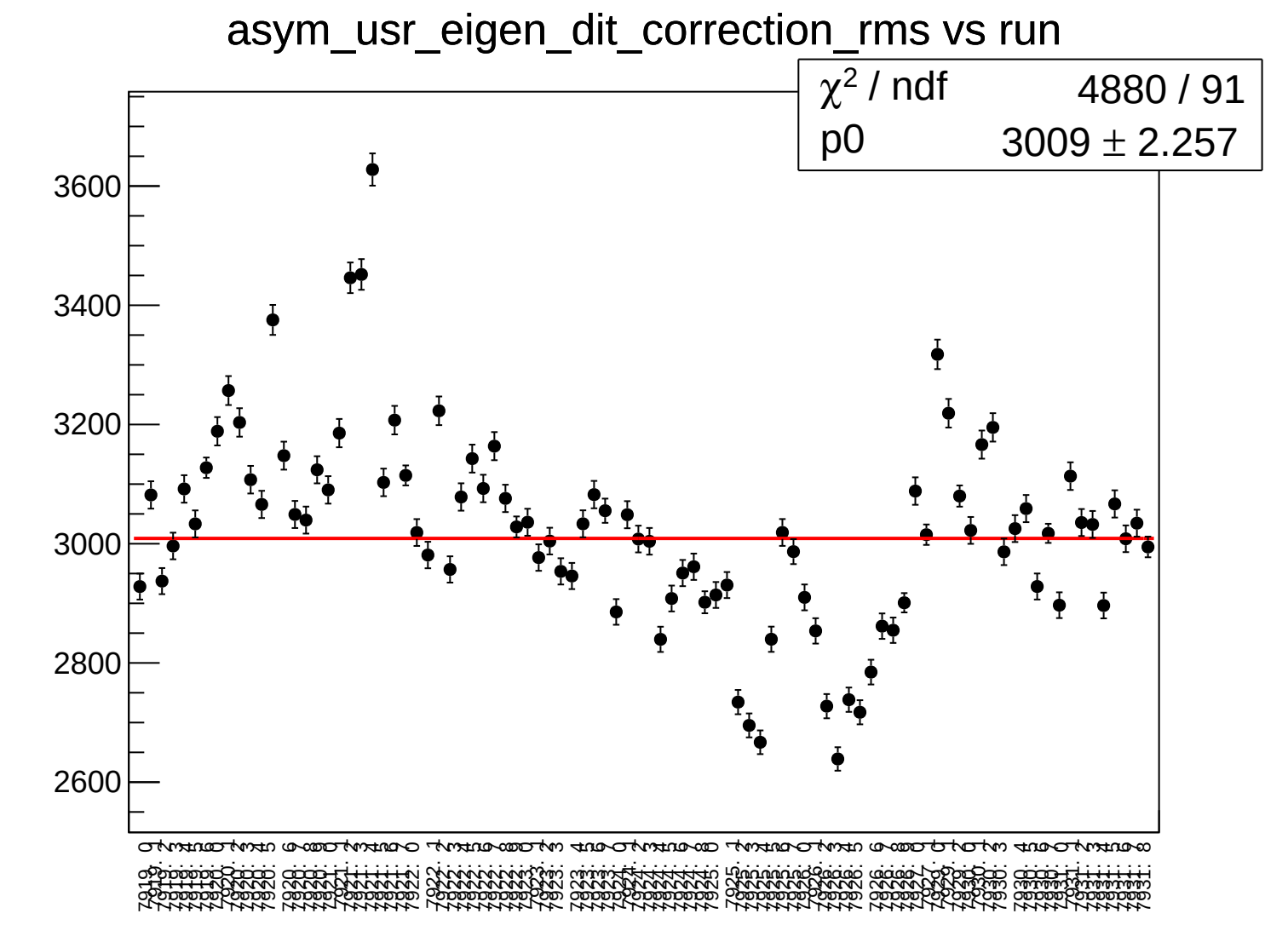

eigen_dit_asym_usr_mean vs run
χ² / ndf 63.06 / 91
p0 2326 ± 1144
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −282.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

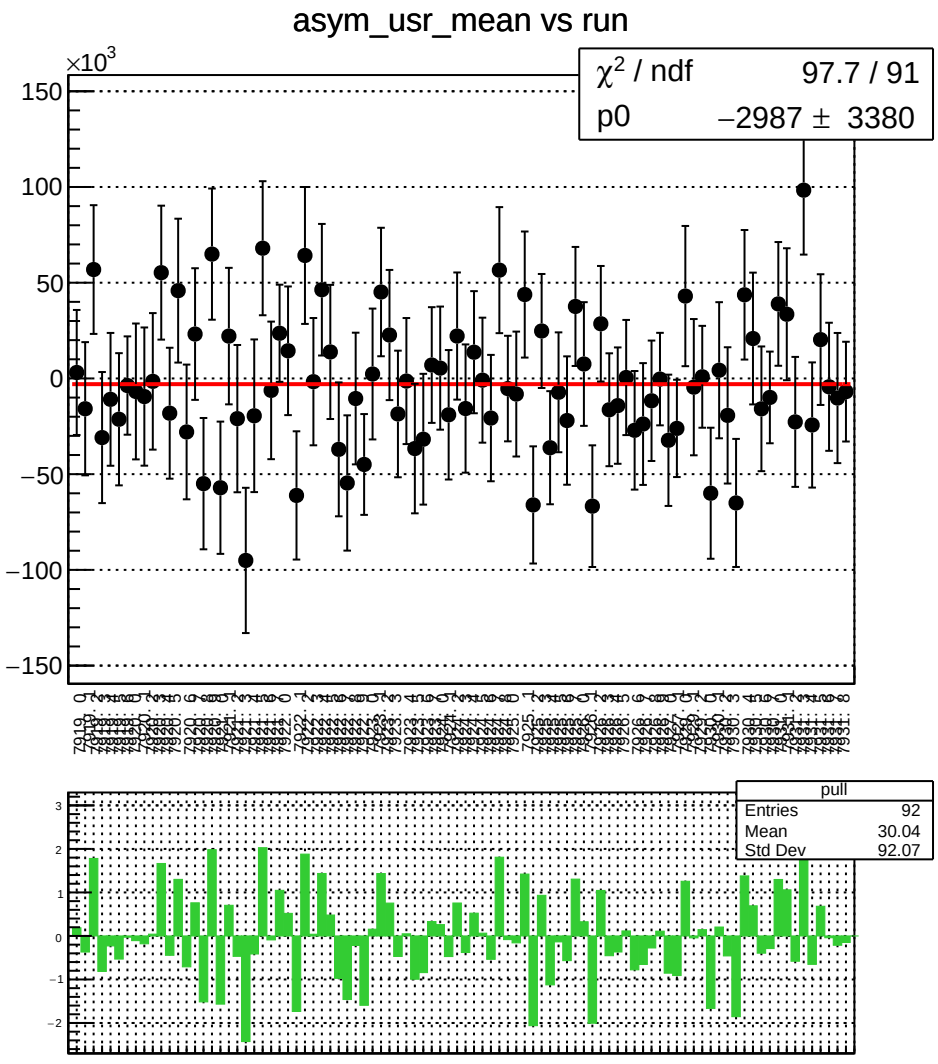

pull1D
Entries 92
Mean 0.006586
Std Dev 0.8279
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

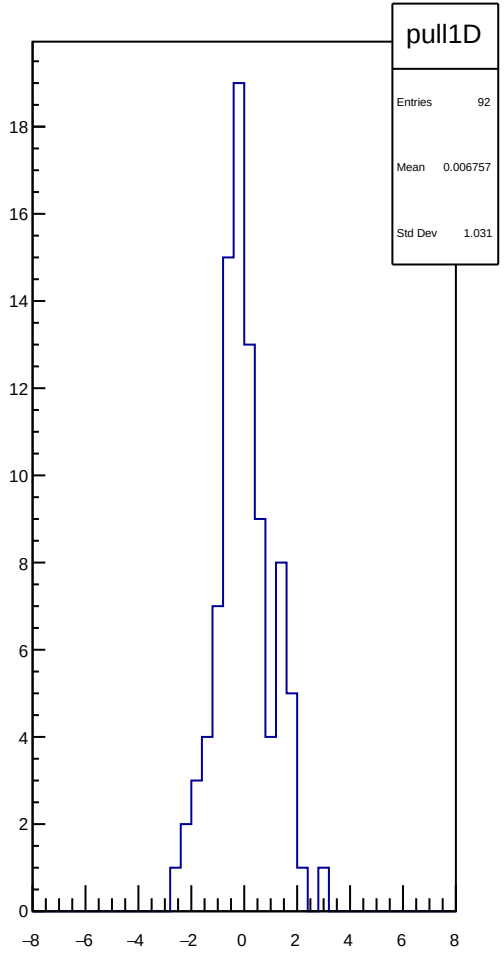

eigen_dit_asym_usr_rms vs run
χ² / ndf 113.7 / 91
p0 1080 ± 0.8086
1110
1100
1090
1080
1070
1060
1050
1040

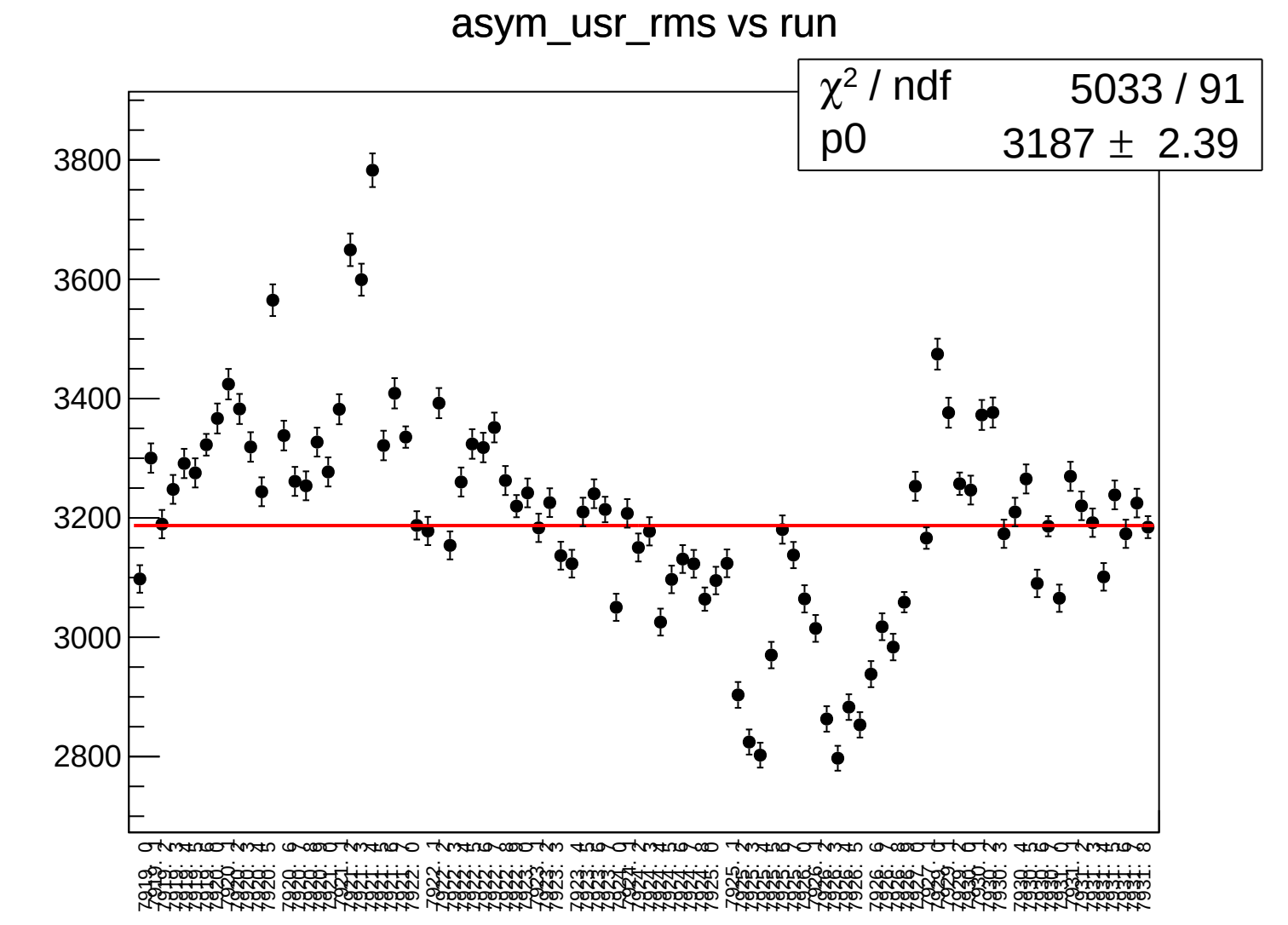

asym_usr_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 104.2 / 91
p0 5237 ± 3191
100
50
0
−50
−100
−150
pull
Entries 92
Mean 233.6
Std Dev 0
2
1
0
−1
−2
−3

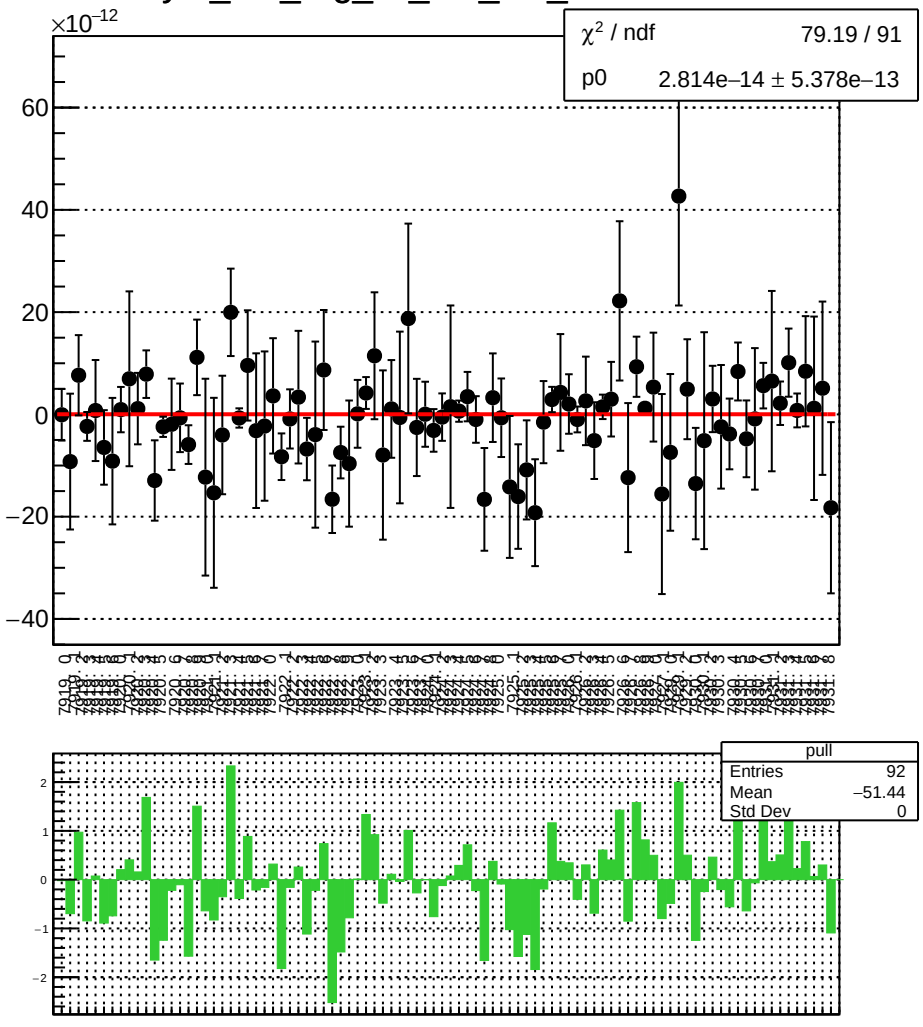

pull1D
Entries 92
Mean −0.003406
Std Dev 1.064
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

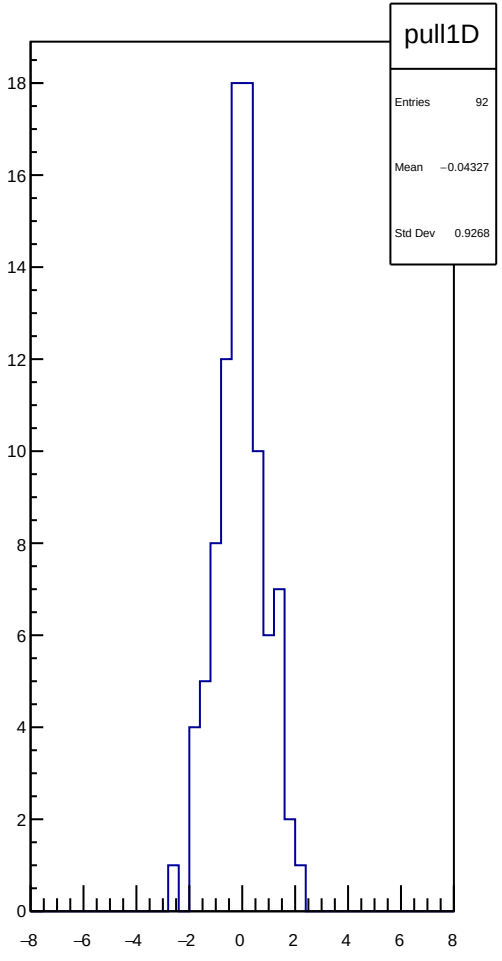

asym_usr_eigen_dit_correction_rms vs run
χ² / ndf 4880 / 91
p0 3009 ± 2.257
3600
3400
3200
3000
2800
2600

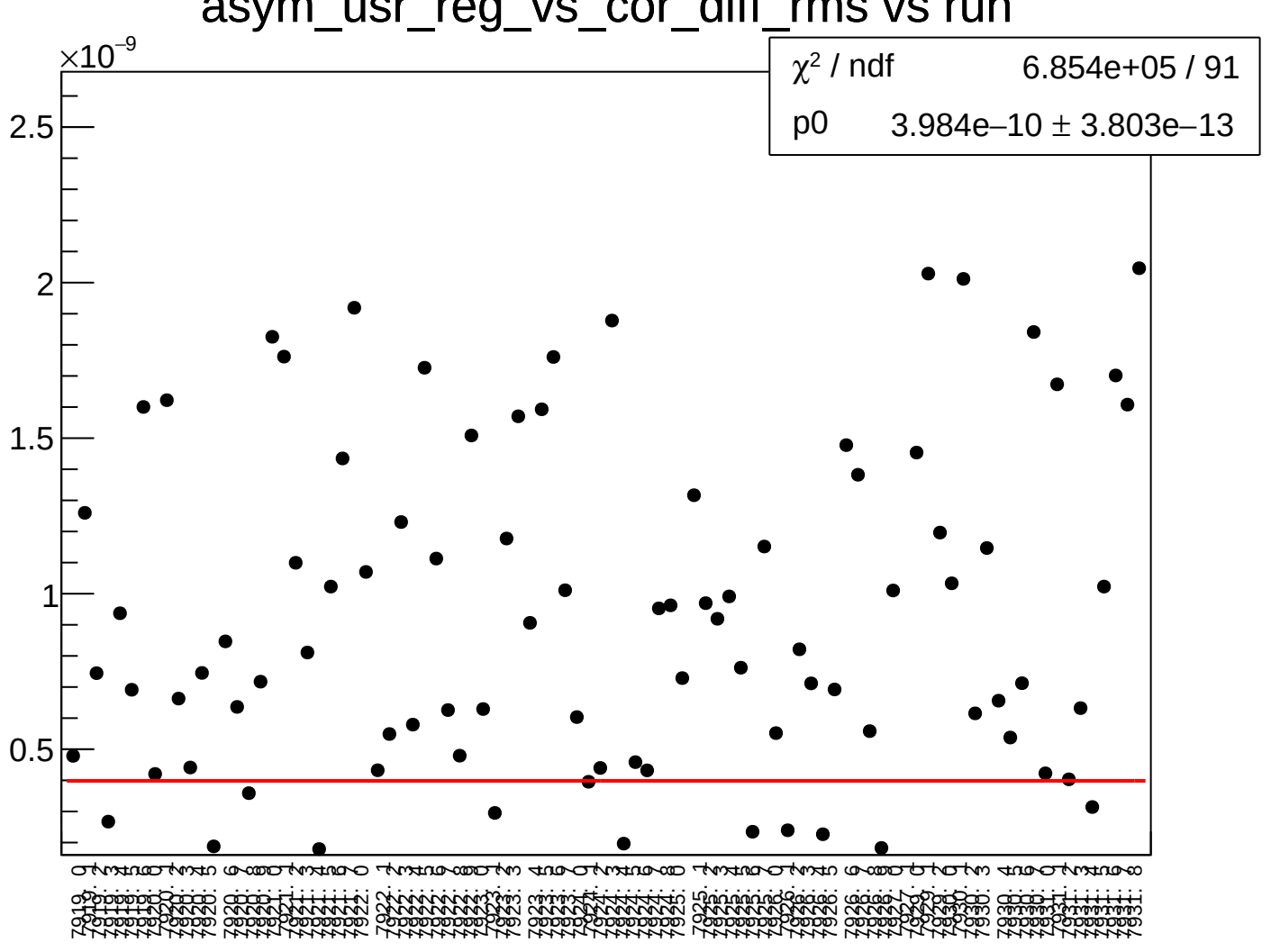

asym_usr_mean vs run
×10^3
χ² / ndf 97.7 / 91
p0 −2987 ± 3380
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean 30.04
Std Dev 92.07
3
2
1
0
−1
−2

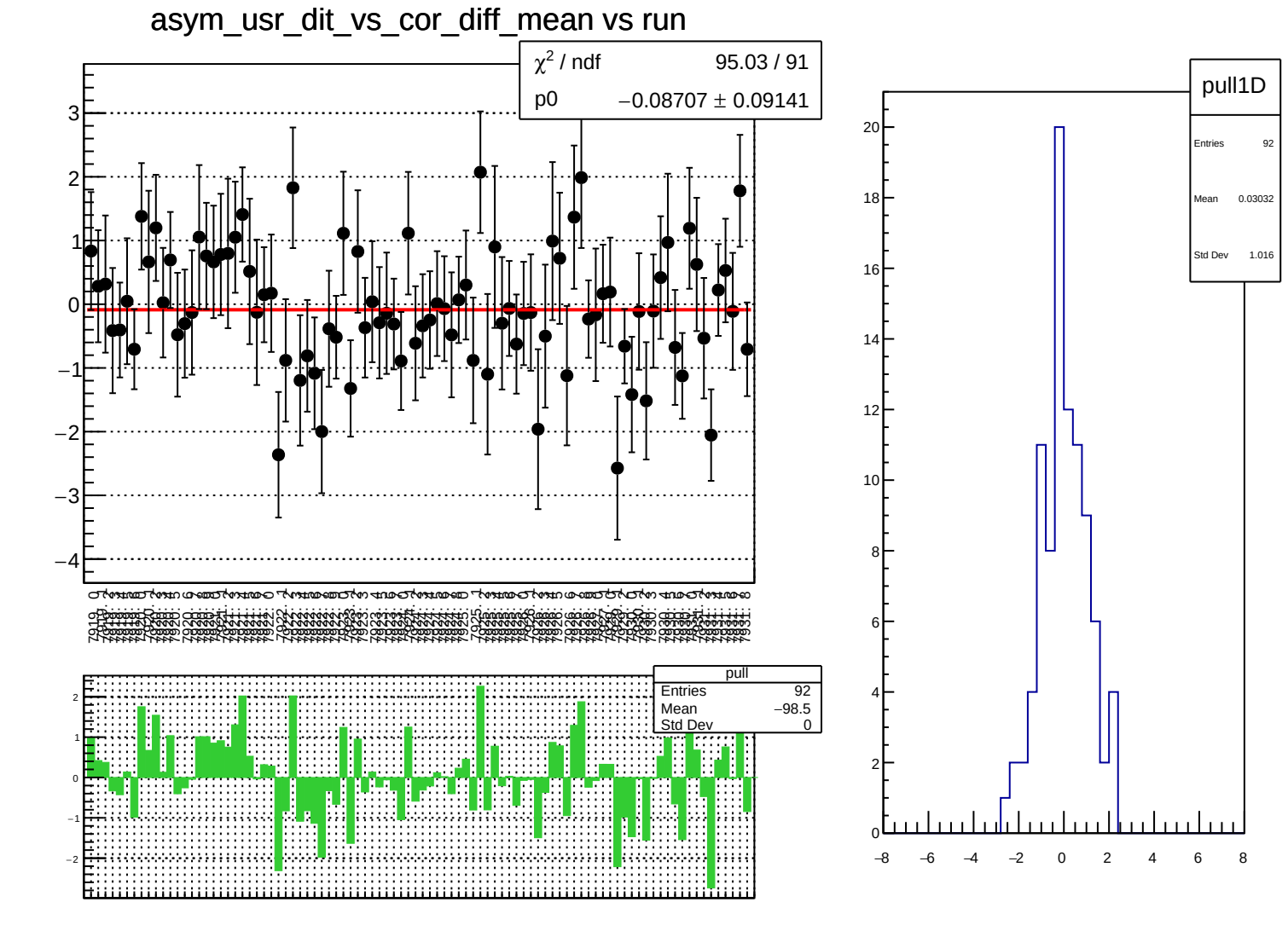

pull1D
Entries 92
Mean 0.006757
Std Dev 1.031
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

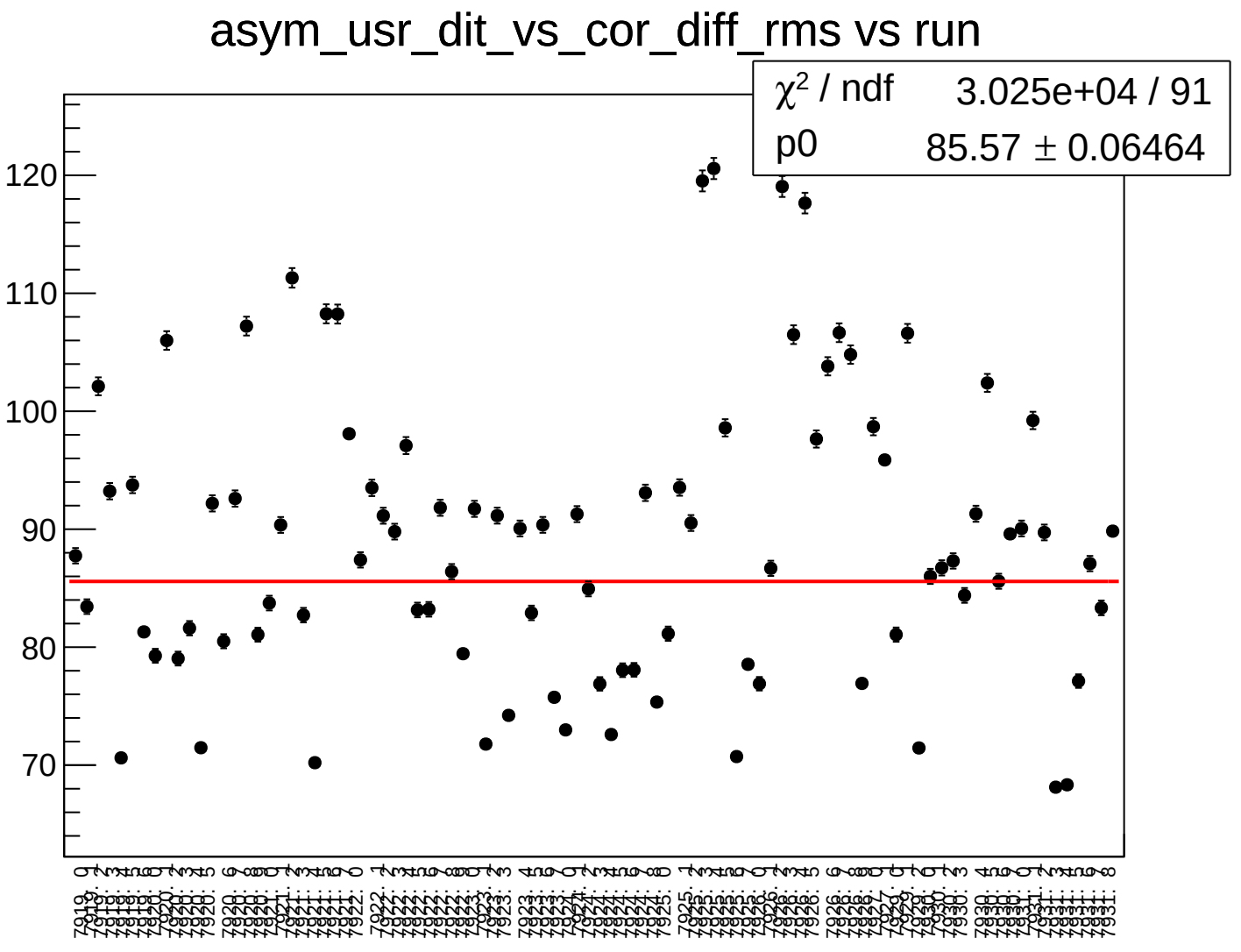

asym_usr_rms vs run
χ² / ndf 5033 / 91
p0 3187 ± 2.39
3800
3600
3400
3200
3000
2800

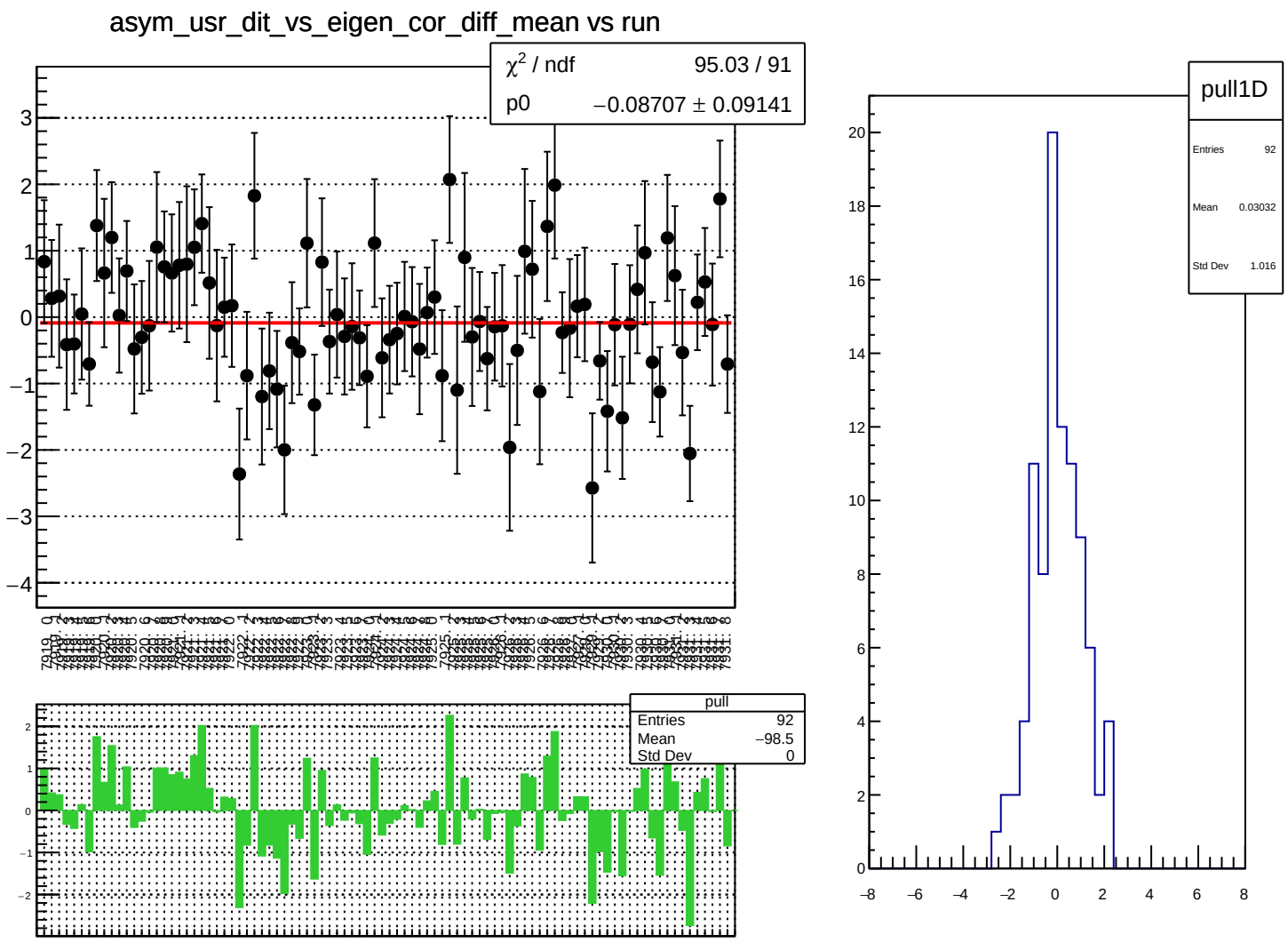

asym_usr_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.19 / 91
p0 2.814e−14 ± 5.378e−13
pull
Entries 92
Mean −51.44
Std Dev 0

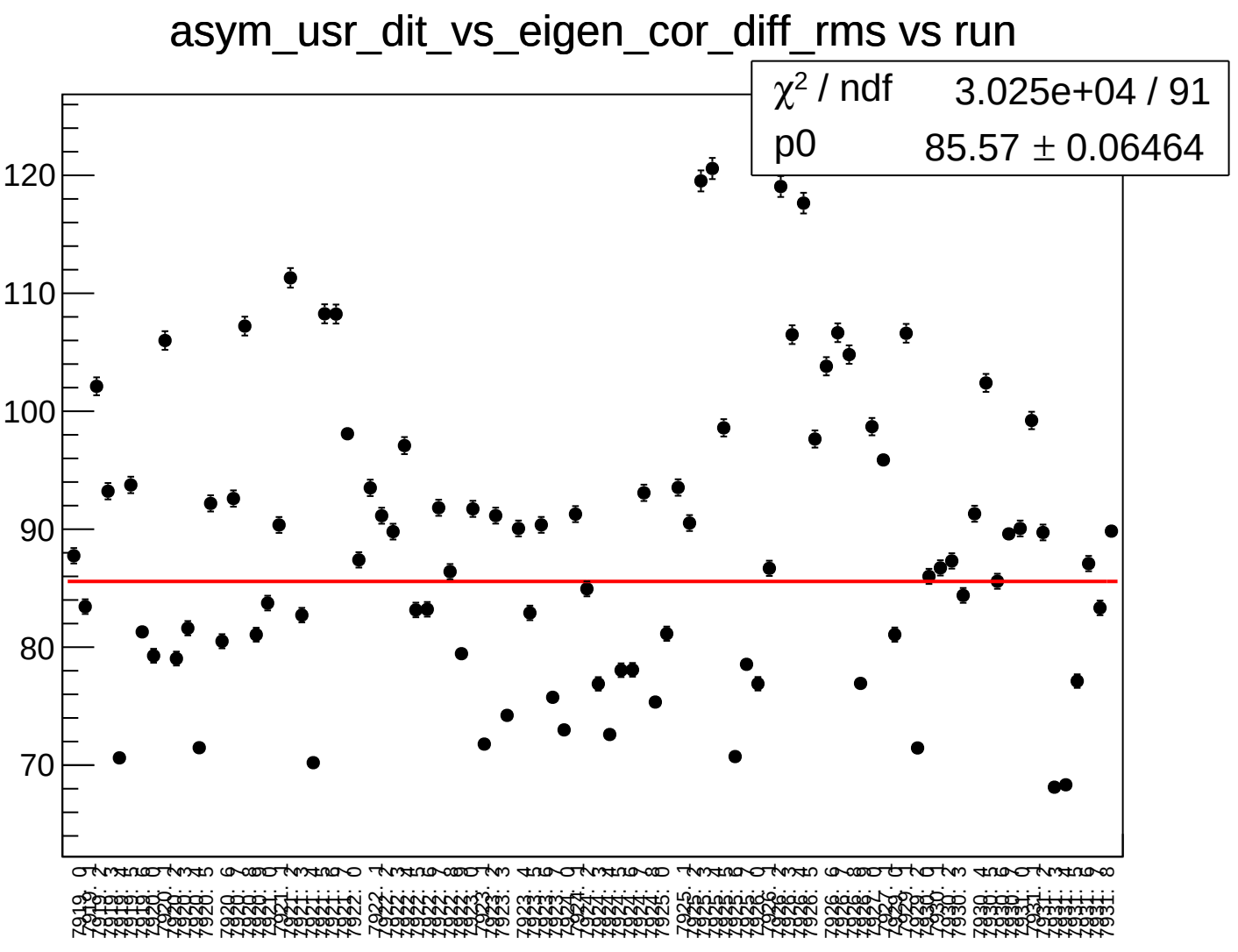

pull1D
Entries 92
Mean −0.04327
Std Dev 0.9268

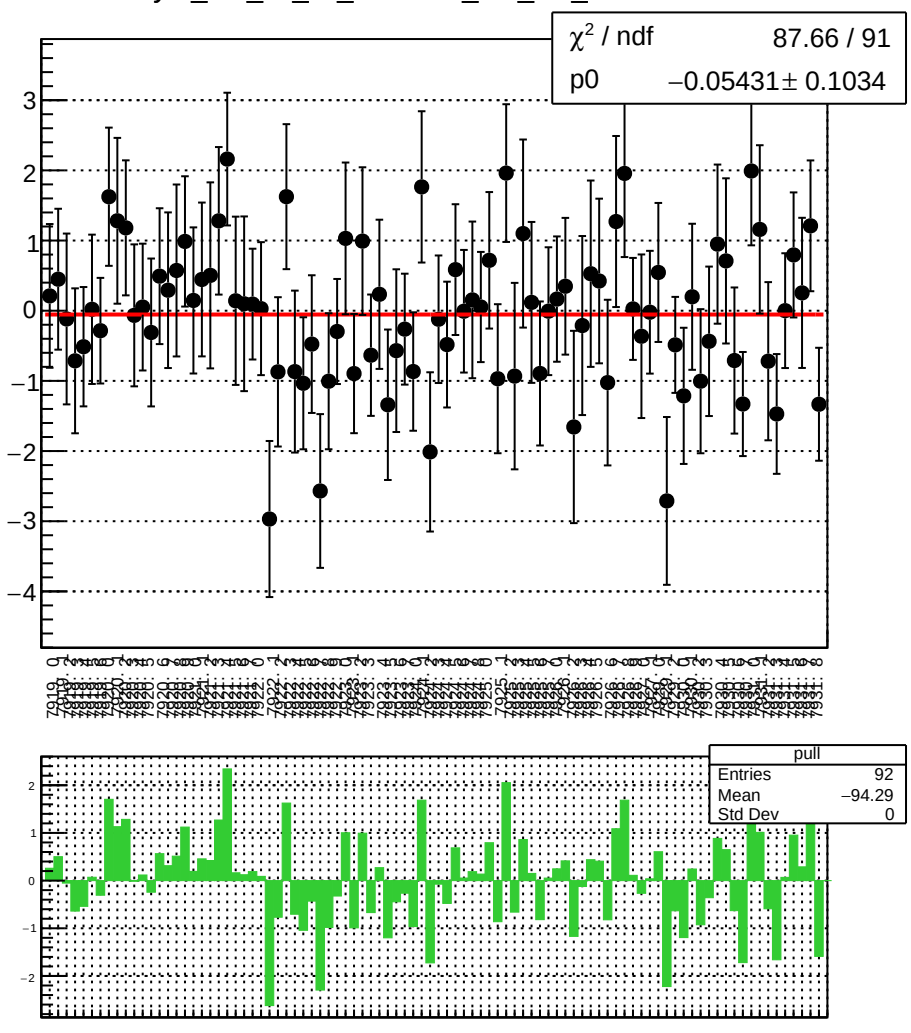

asym_usr_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.854e+05 / 91
p0 3.984e−10 ± 3.803e−13
2.5
2
1.5
1
0.5

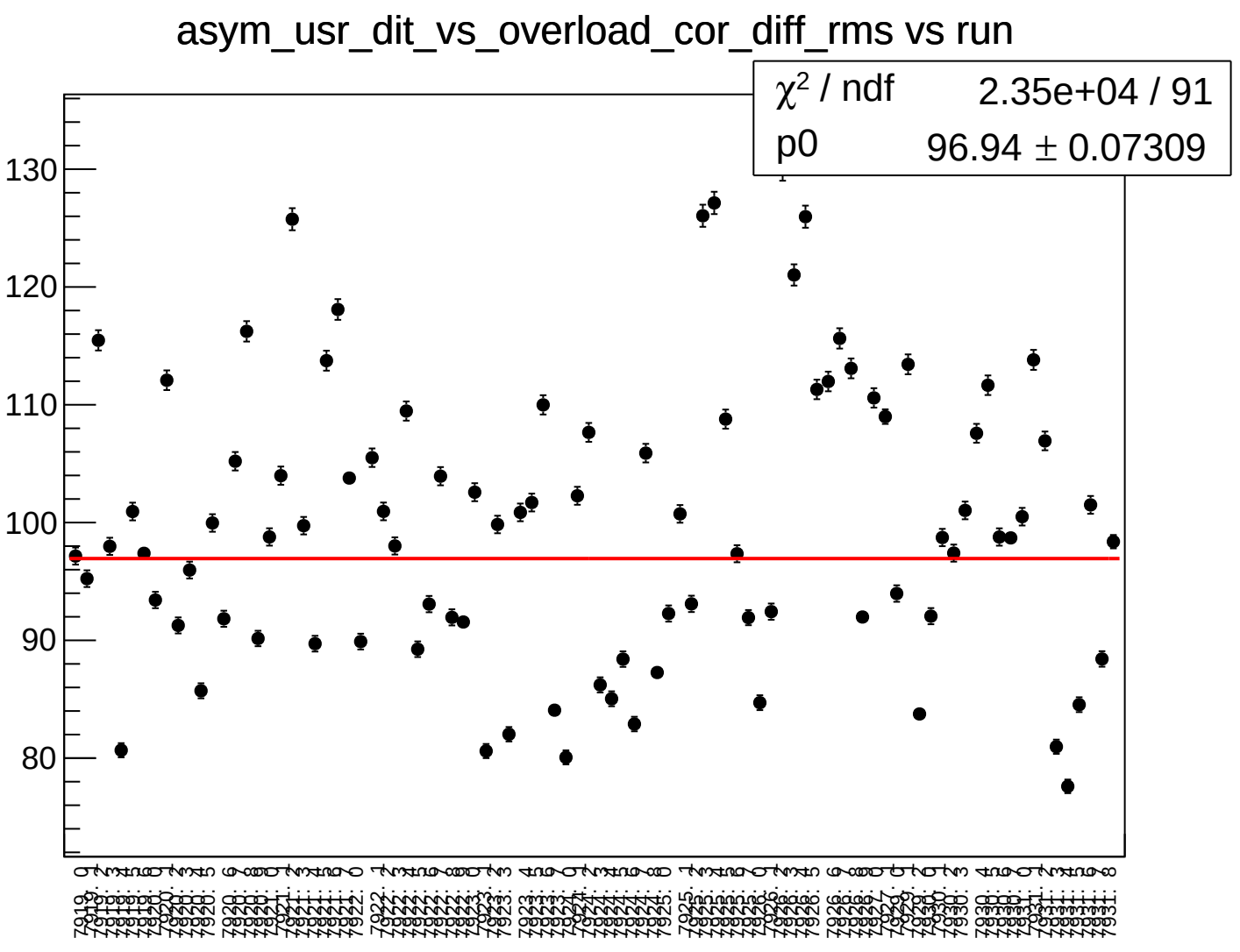

asym_usr_dit_vs_cor_diff_mean vs run
χ² / ndf 95.03 / 91
p0 −0.08707 ± 0.09141
pull
Entries 92
Mean −98.5
Std Dev 0
pull1D
Entries 92
Mean 0.03032
Std Dev 1.016

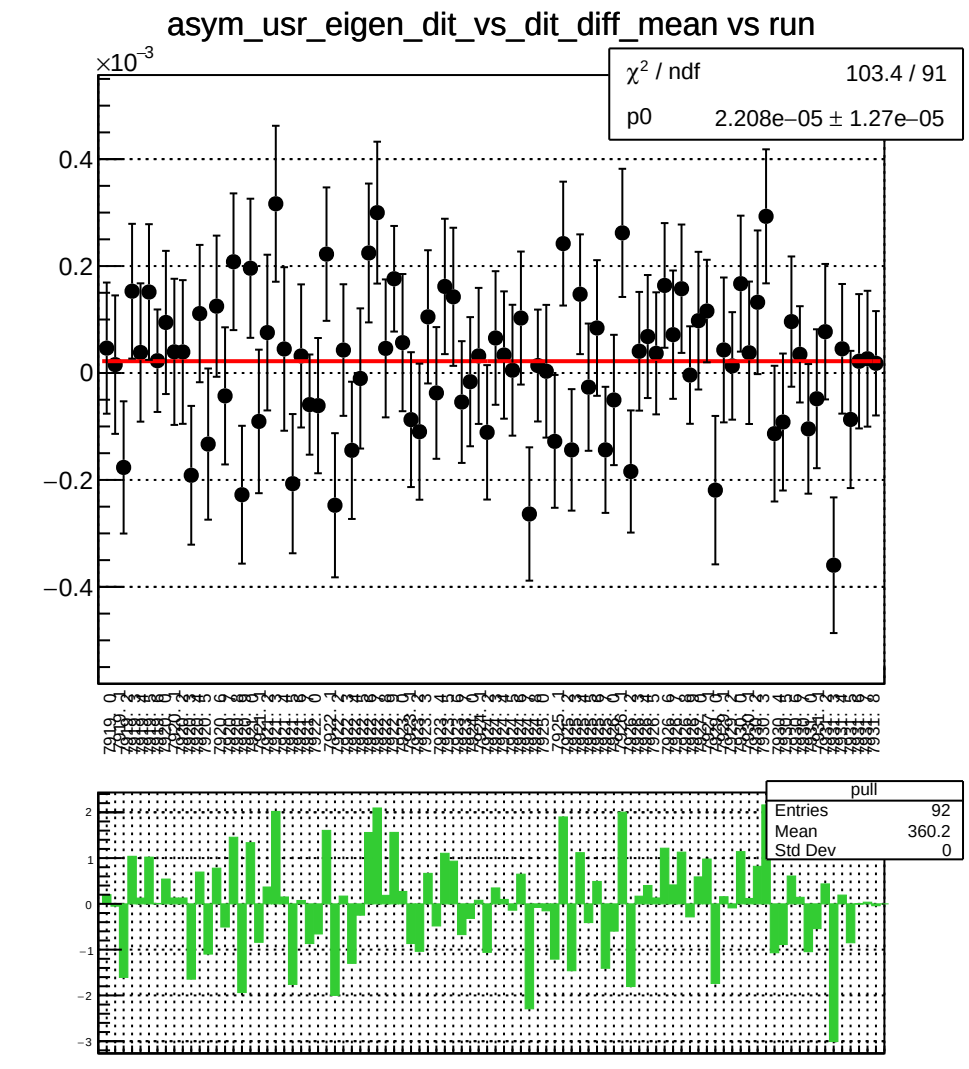

asym_usr_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.025e+04 / 91
p0 85.57 ± 0.06464
120
110
100
90
80
70

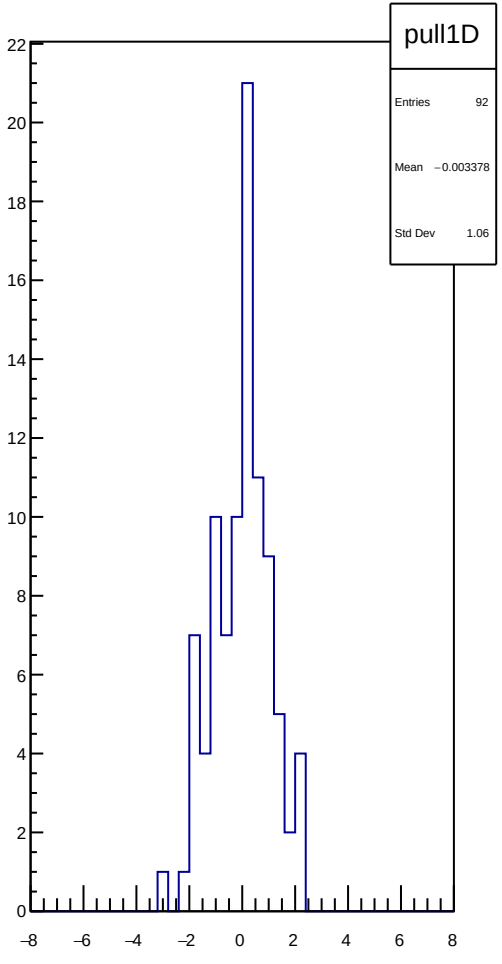

asym_usr_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.03 / 91
p0 −0.08707 ± 0.09141
pull
Entries 92
Mean −98.5
Std Dev 0
pull1D
Entries 92
Mean 0.03032
Std Dev 1.016

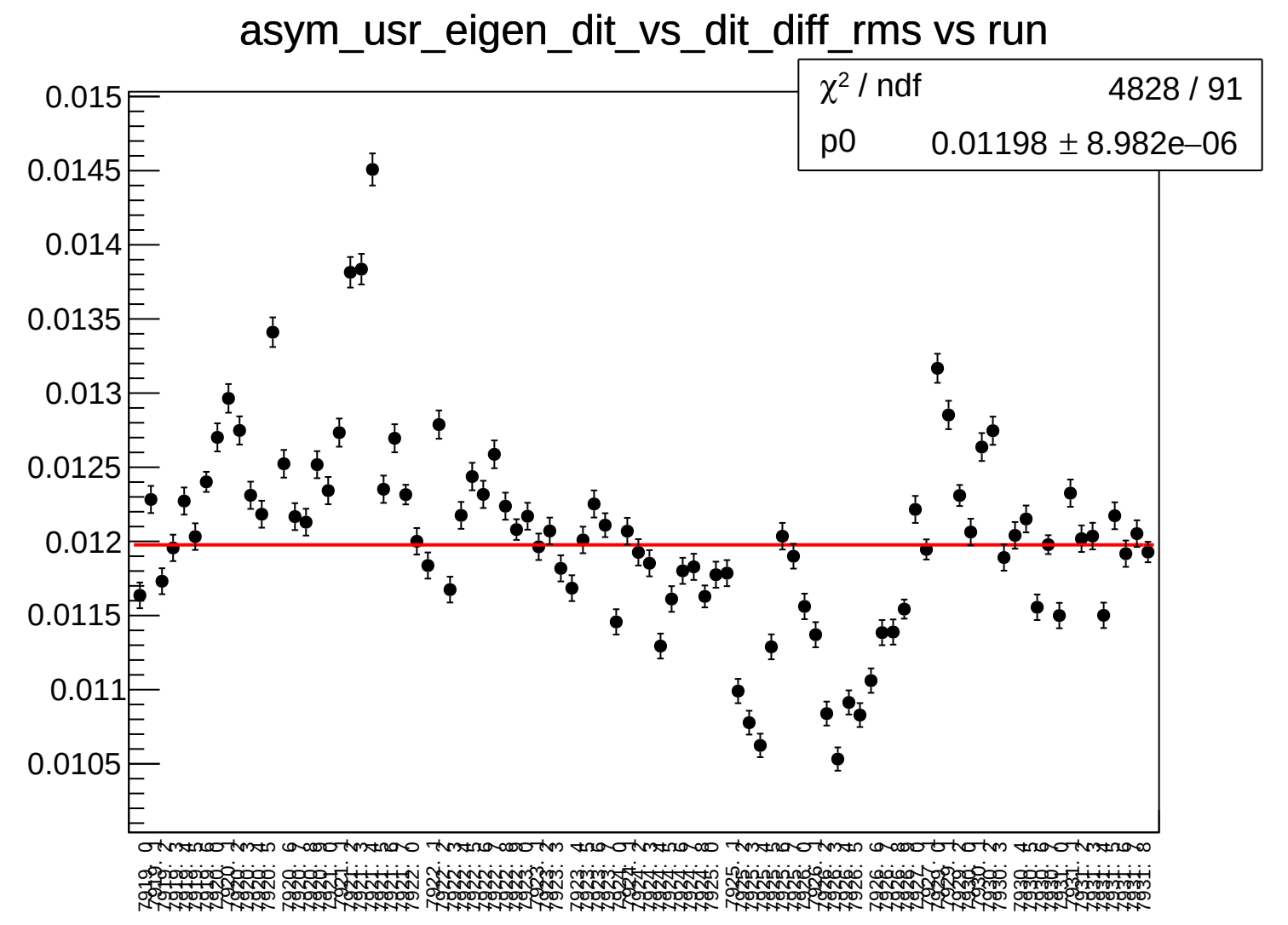

asym_usr_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 3.025e+04 / 91
p0 85.57 ± 0.06464
120
110
100
90
80
70

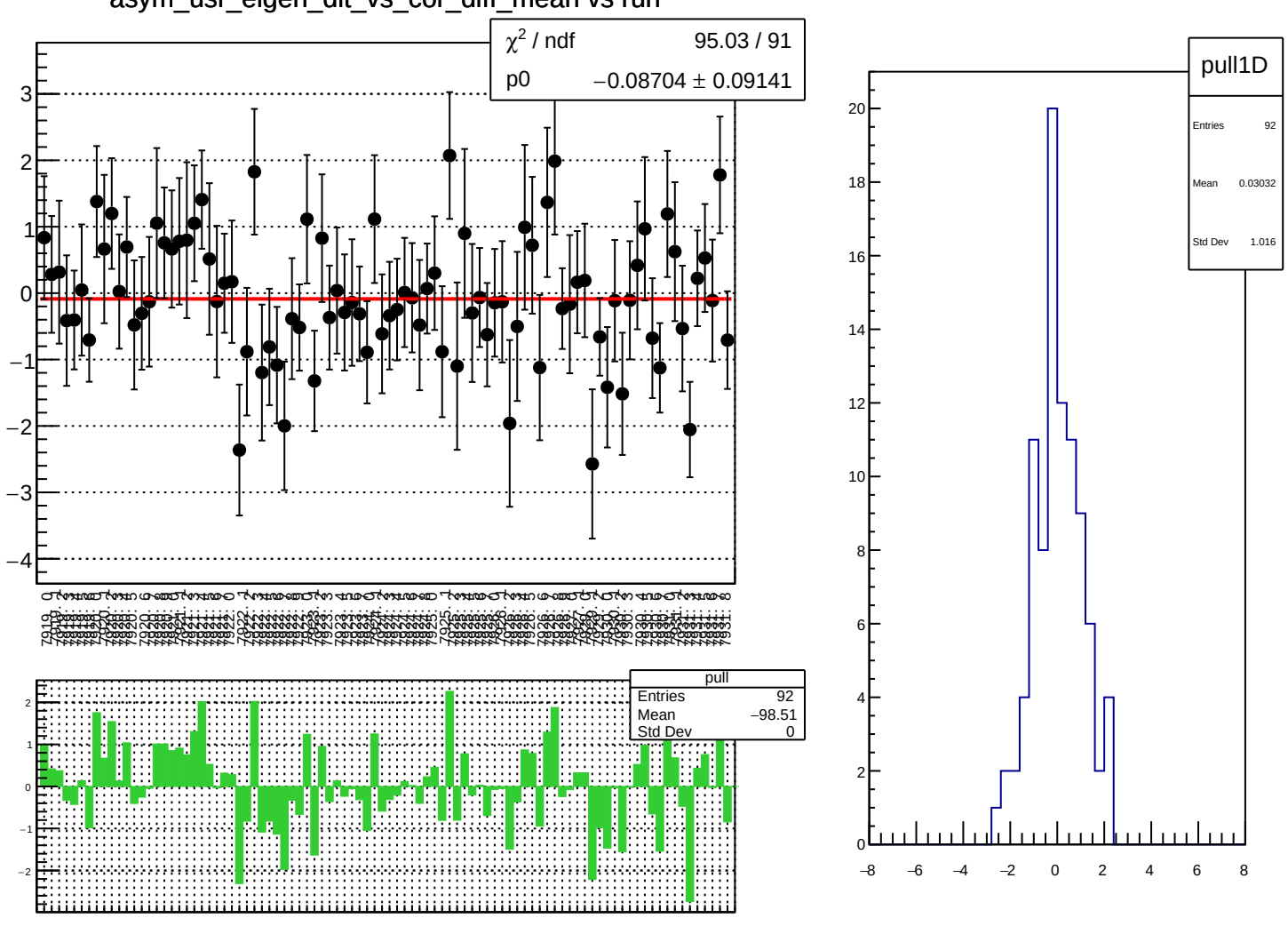

asym_usr_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 87.66 / 91
p0 −0.05431± 0.1034
pull
Entries 92
Mean −94.29
Std Dev 0
pull1D
Entries 92
Mean 0.01938
Std Dev 0.9759

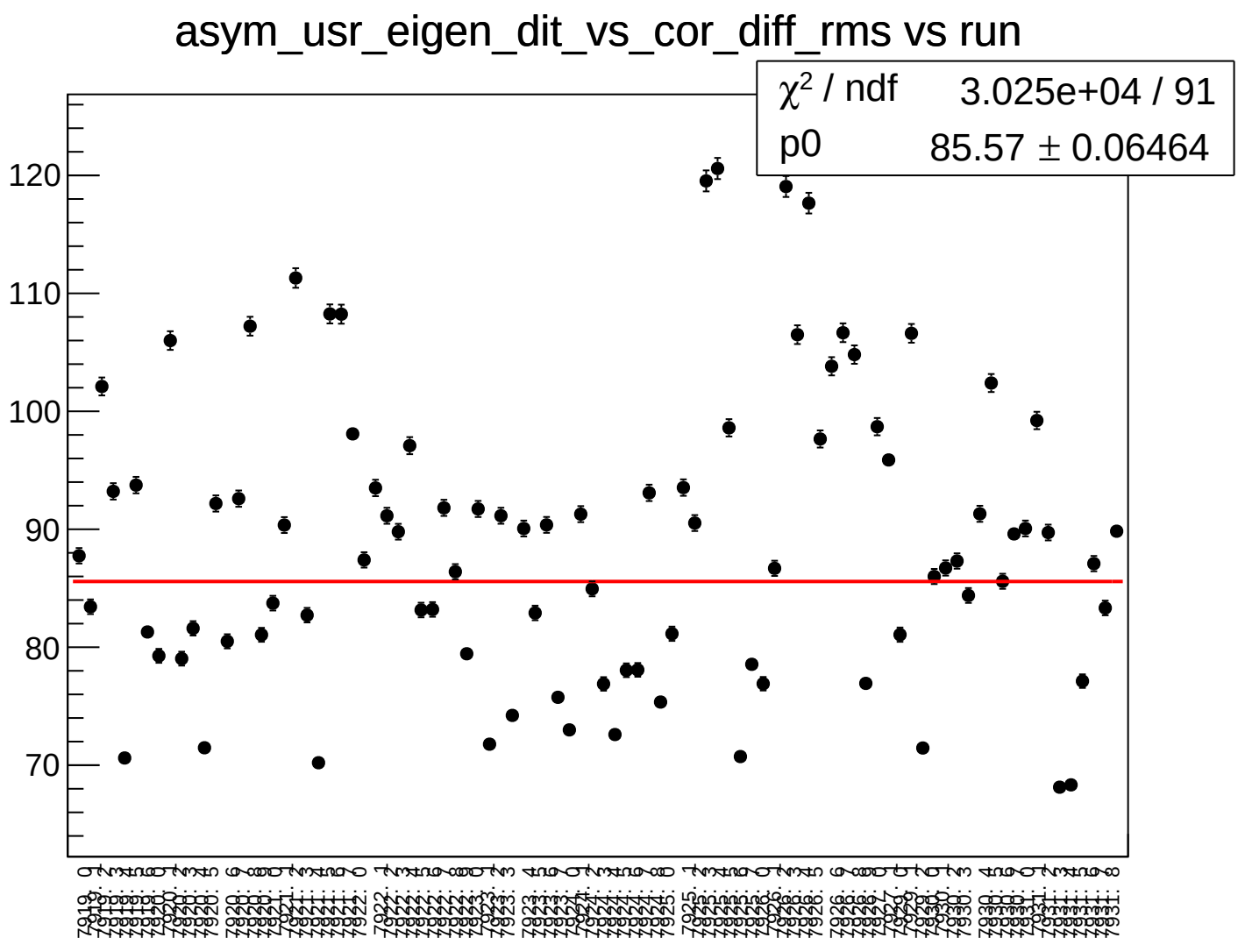

asym_usr_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.35e+04 / 91
p0 96.94 ± 0.07309
130
120
110
100
90
80

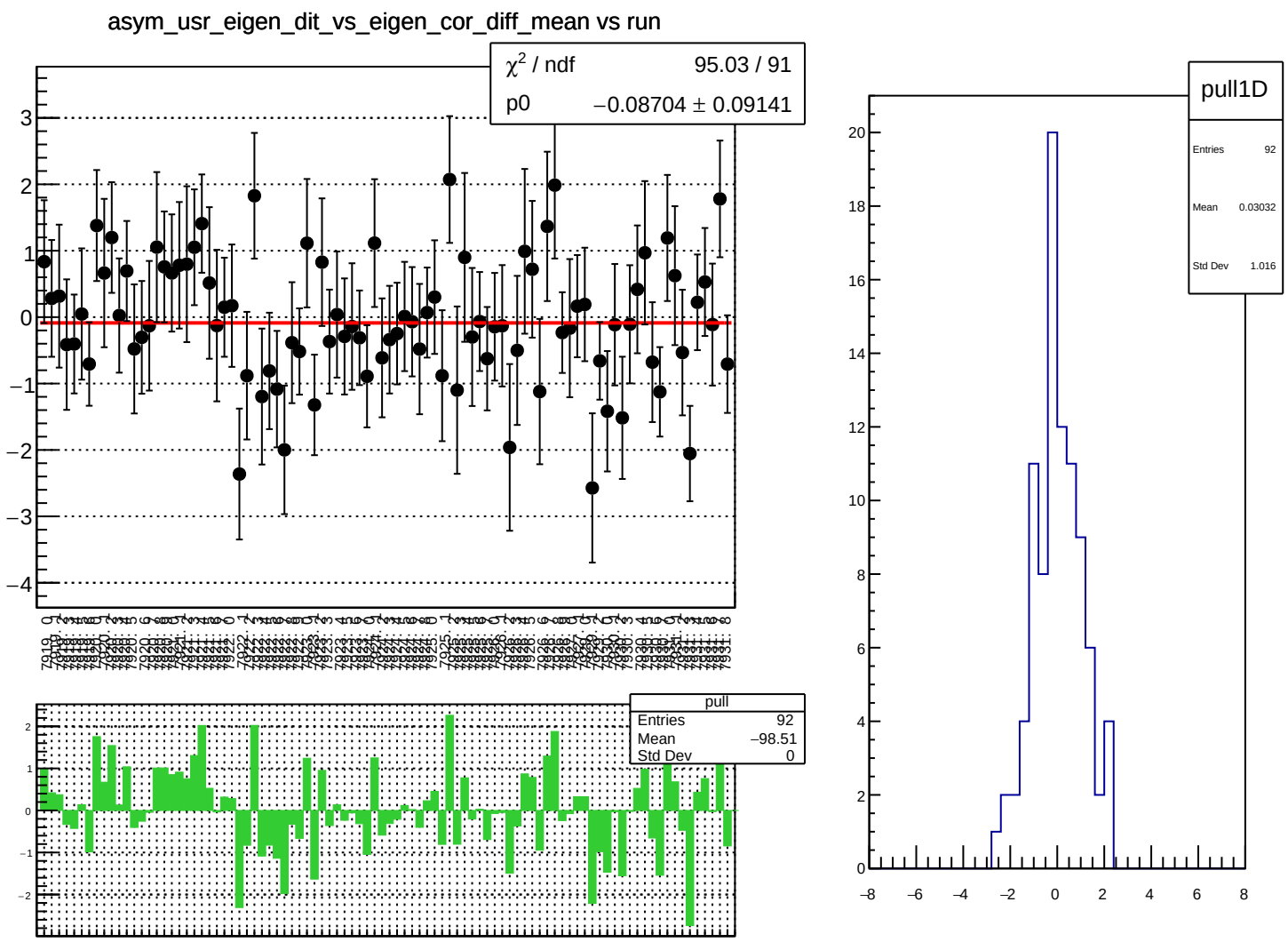

asym_usr_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 103.4 / 91
p0 2.208e−05 ± 1.27e−05
pull
Entries 92
Mean 360.2
Std Dev 0

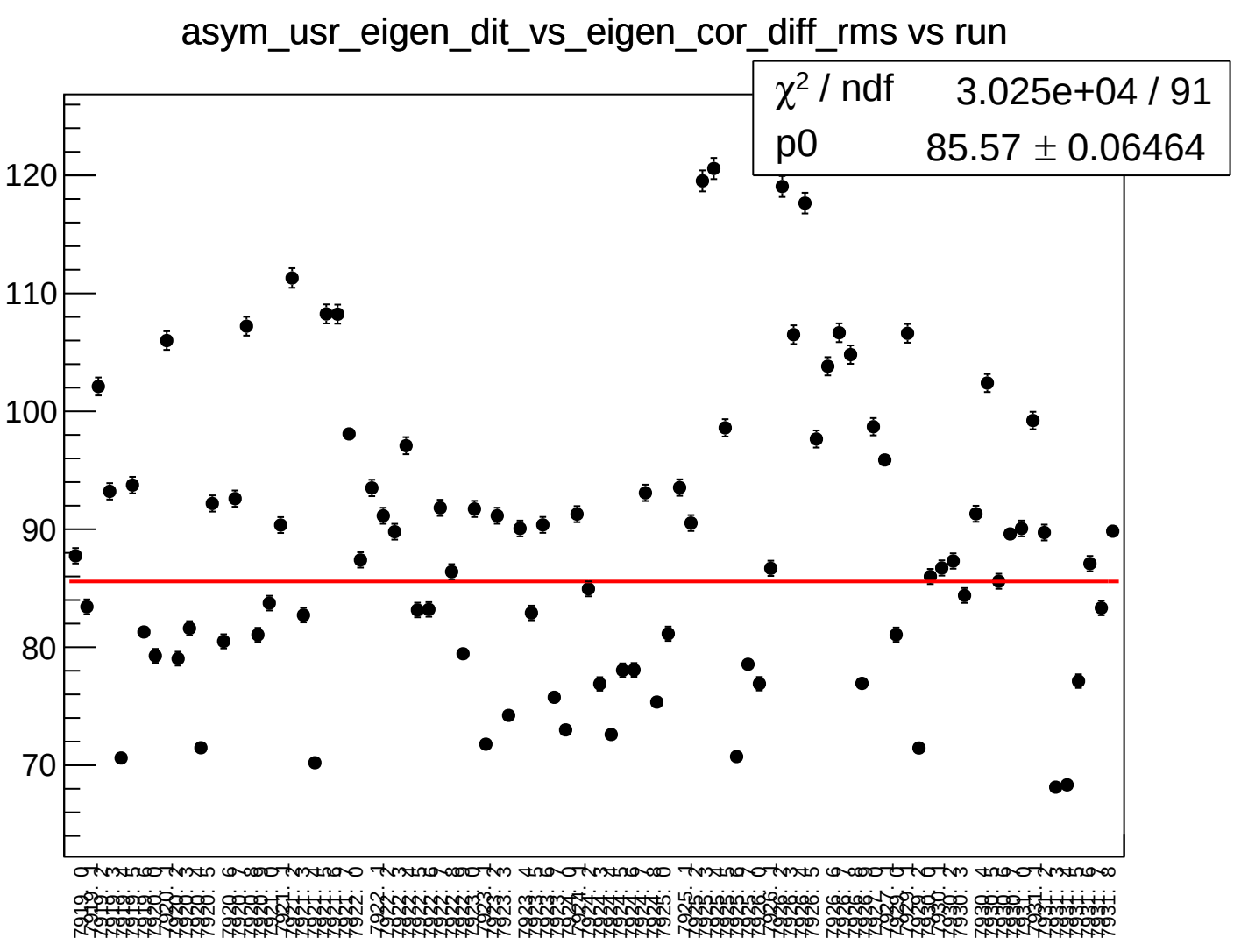

pull1D
Entries 92
Mean −0.003378
Std Dev 1.06

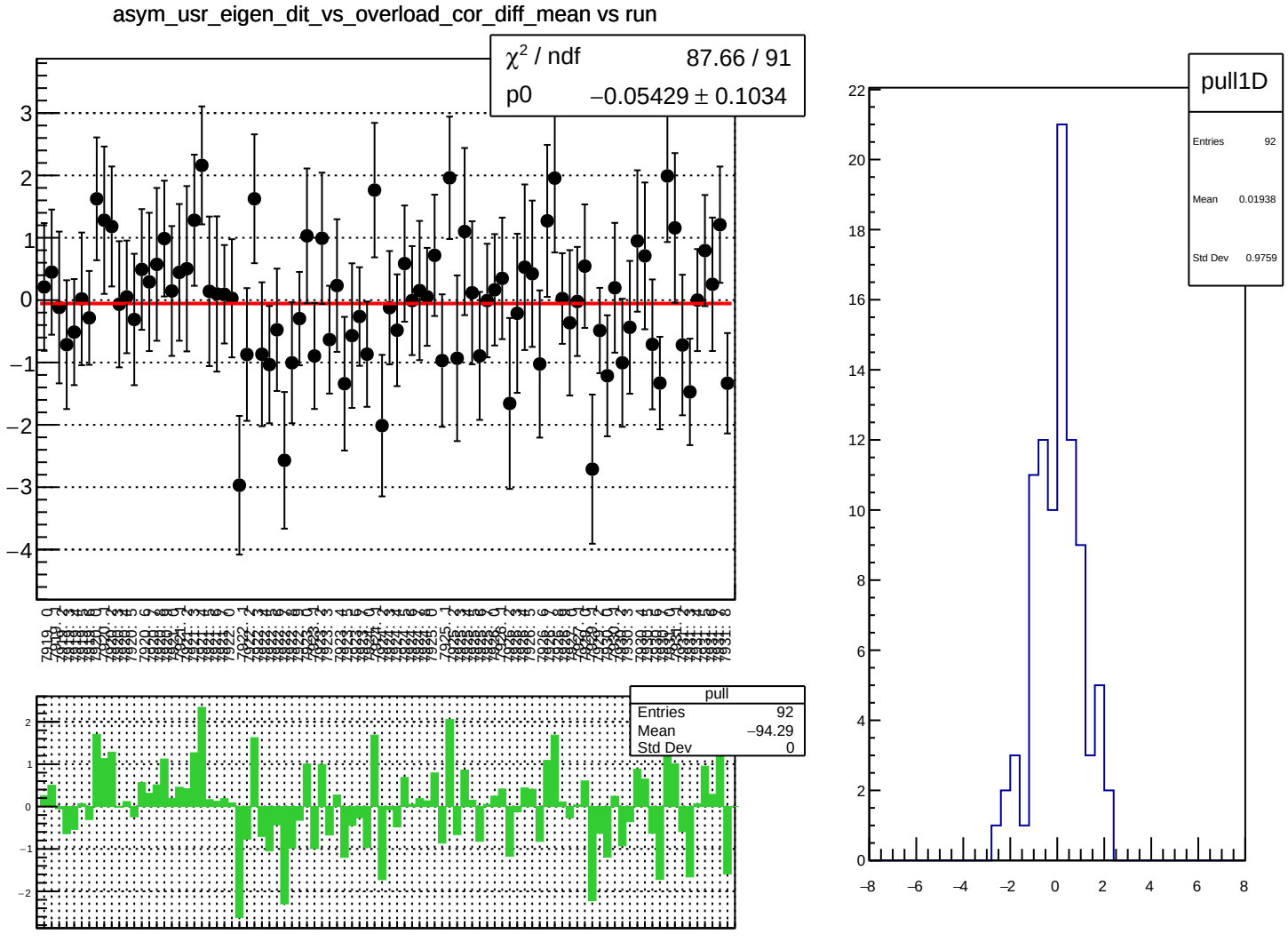

asym_usr_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4828 / 91
p0 0.01198 ± 8.982e–06
0.015
0.0145
0.014
0.0135
0.013
0.0125
0.012
0.0115
0.011
0.0105

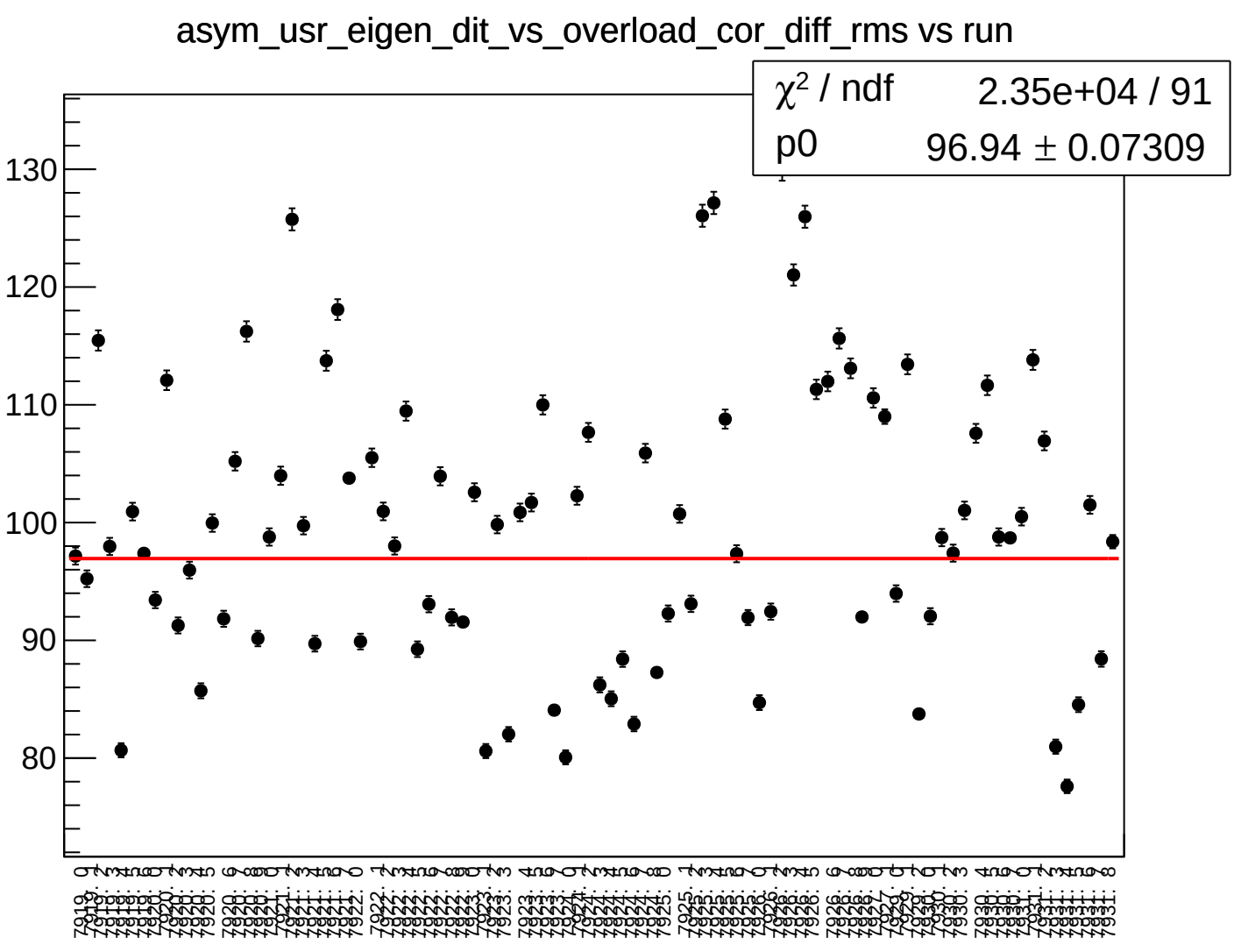

asym_usr_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.03 / 91
p0 −0.08704 ± 0.09141
pull
Entries 92
Mean −98.51
Std Dev 0
pull1D
Entries 92
Mean 0.03032
Std Dev 1.016

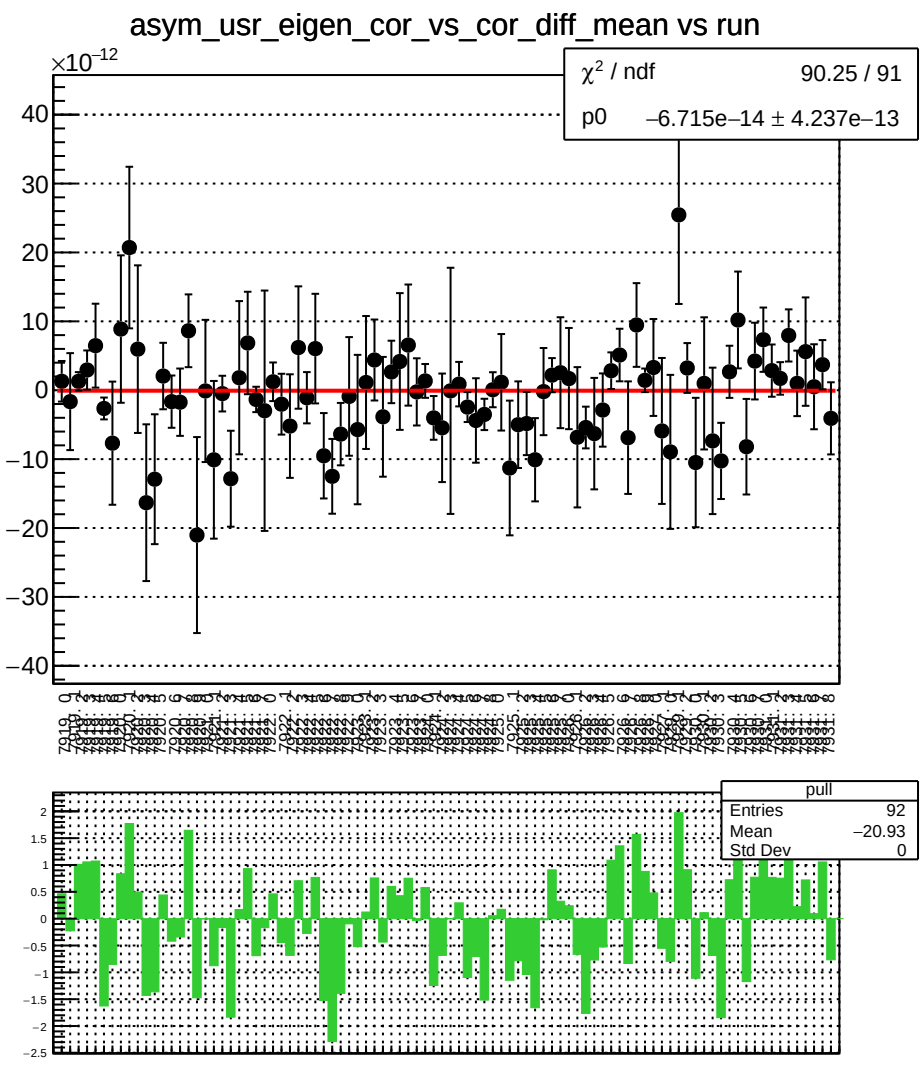

asym_usr_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.025e+04 / 91
p0 85.57 ± 0.06464
120
110
100
90
80
70

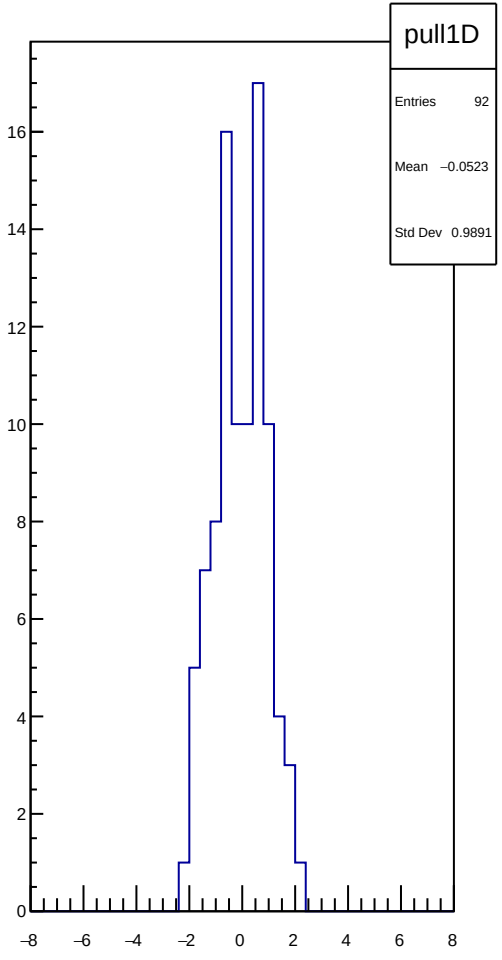

asym_usr_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.03 / 91
p0 −0.08704 ± 0.09141
pull
Entries 92
Mean −98.51
Std Dev 0
pull1D
Entries 92
Mean 0.03032
Std Dev 1.016

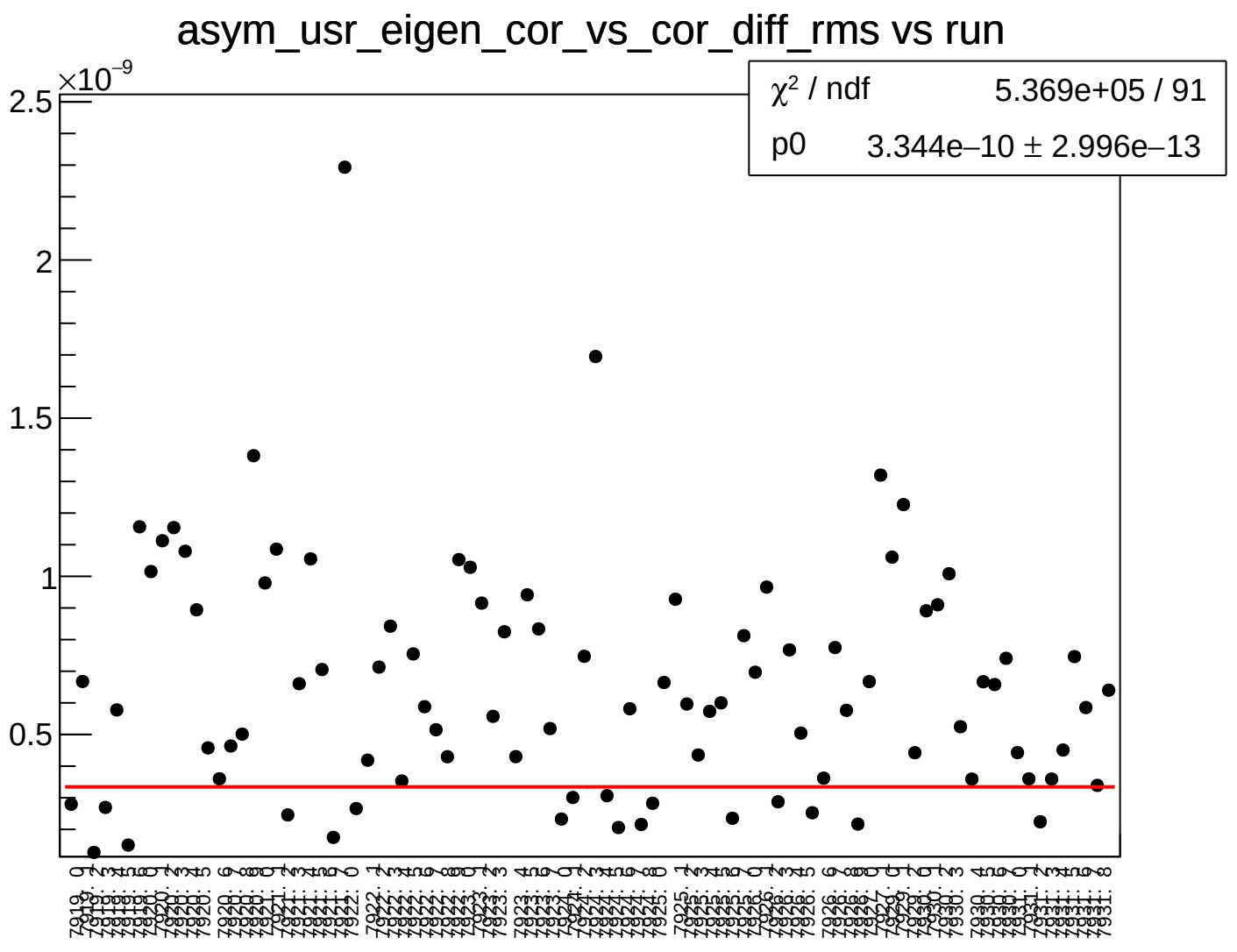

asym_usr_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.025e+04 / 91
p0 85.57 ± 0.06464
120
110
100
90
80
70

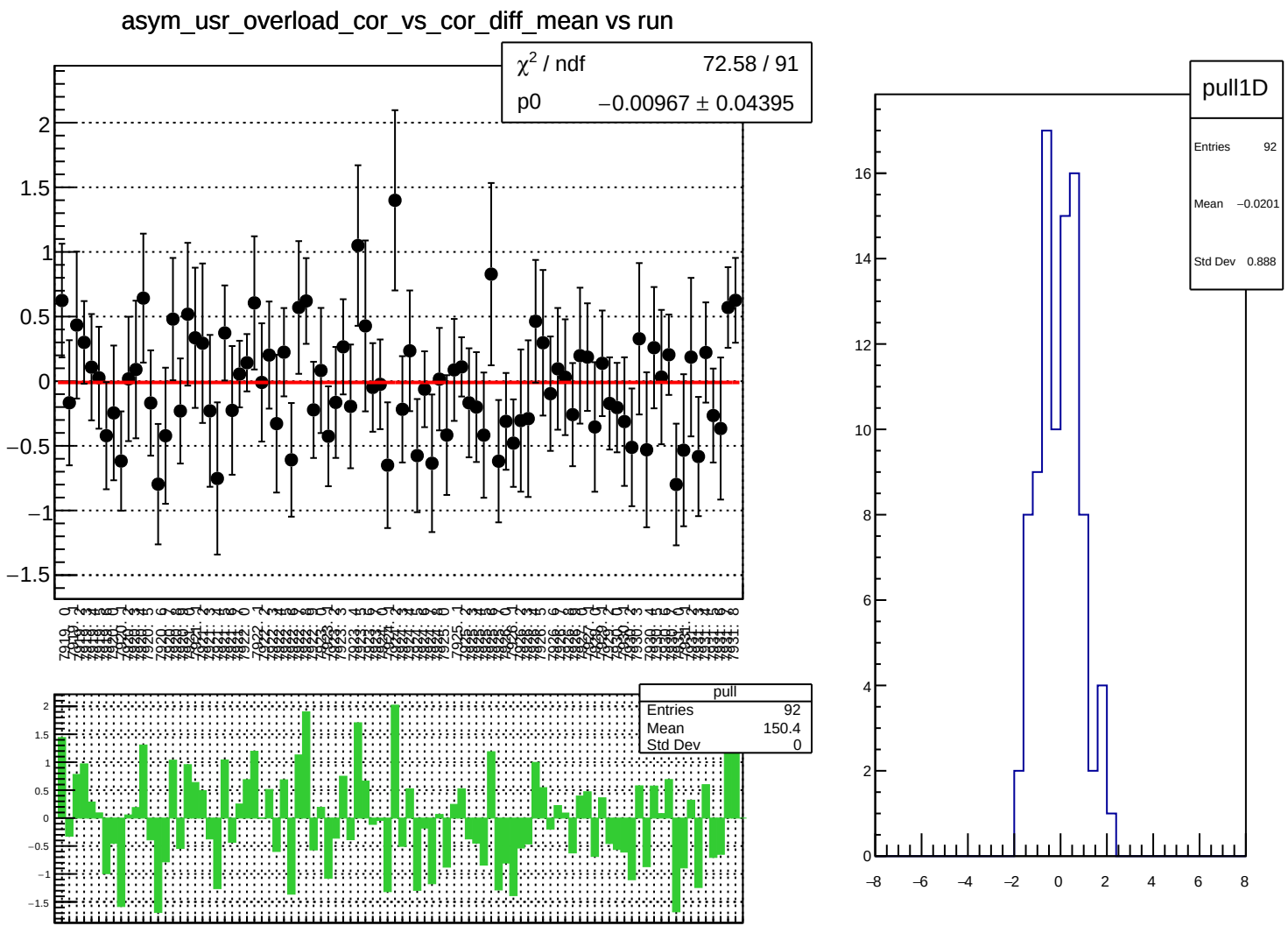

asym_usr_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 87.66 / 91
p0 −0.05429 ± 0.1034
pull
Entries 92
Mean −94.29
Std Dev 0
pull1D
Entries 92
Mean 0.01938
Std Dev 0.9759

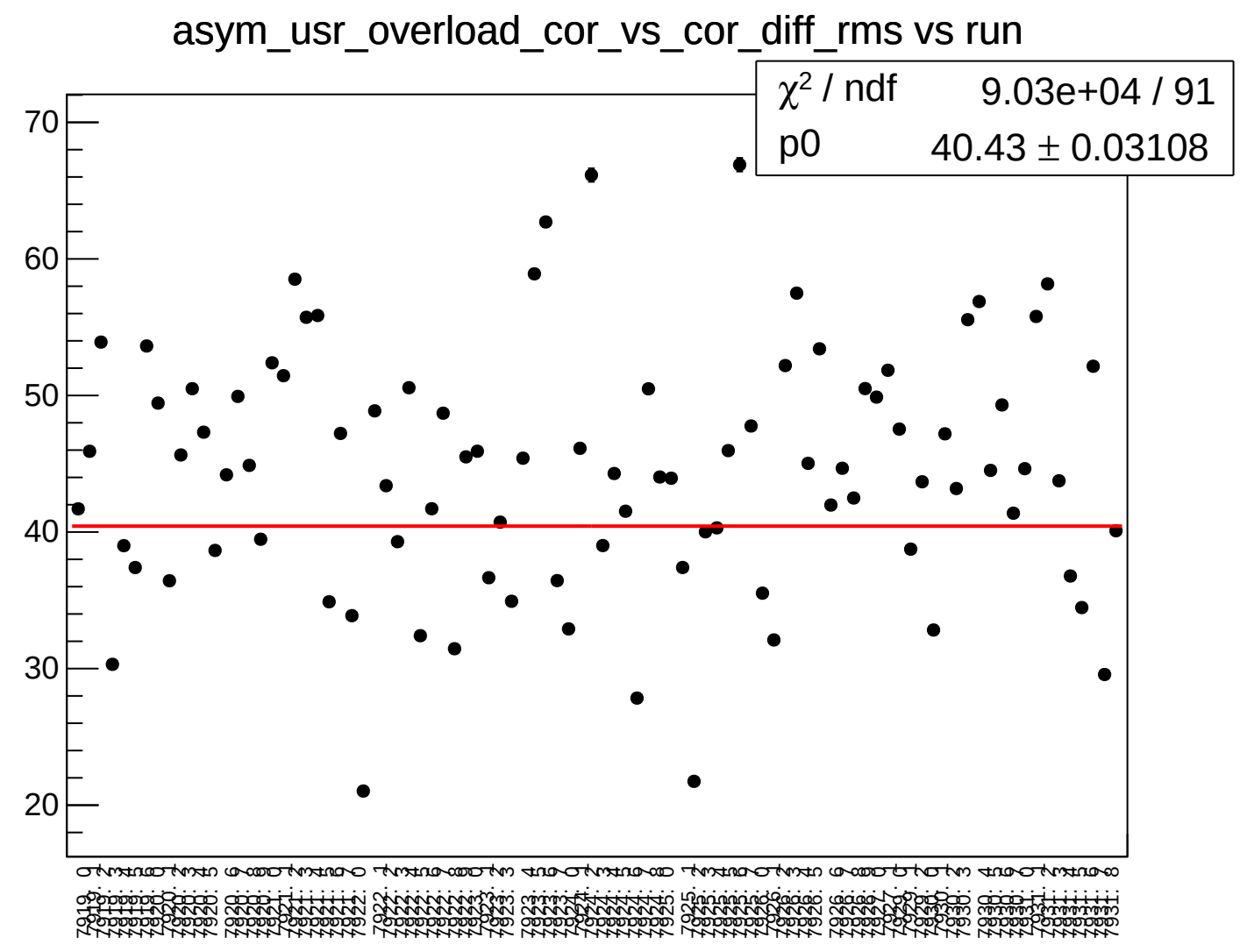

asym_usr_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.35e+04 / 91
p0 96.94 ± 0.07309
130
120
110
100
90
80

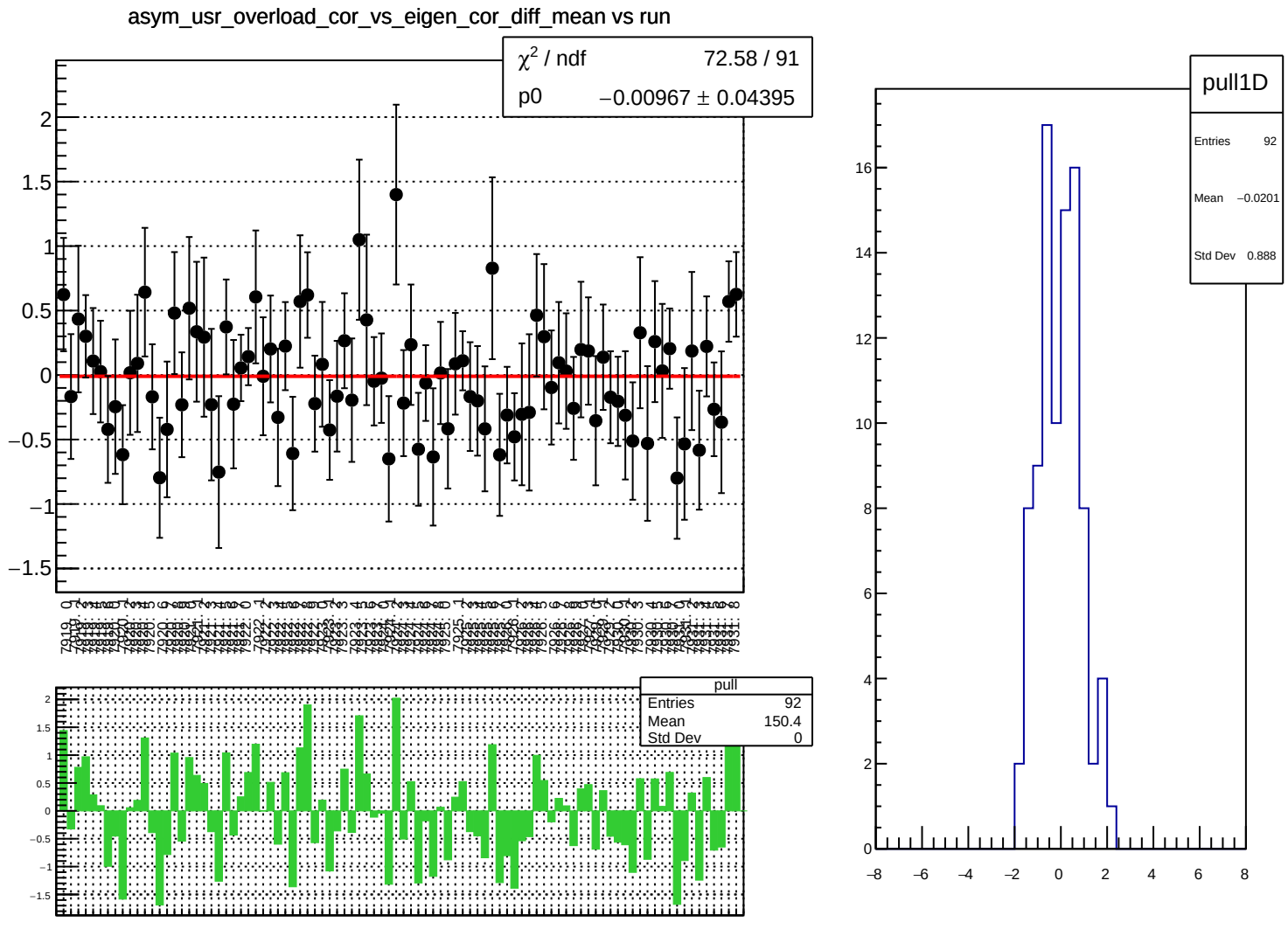

asym_usr_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.25 / 91
p0 −6.715e−14 ± 4.237e−13
pull
Entries 92
Mean −20.93
Std Dev 0

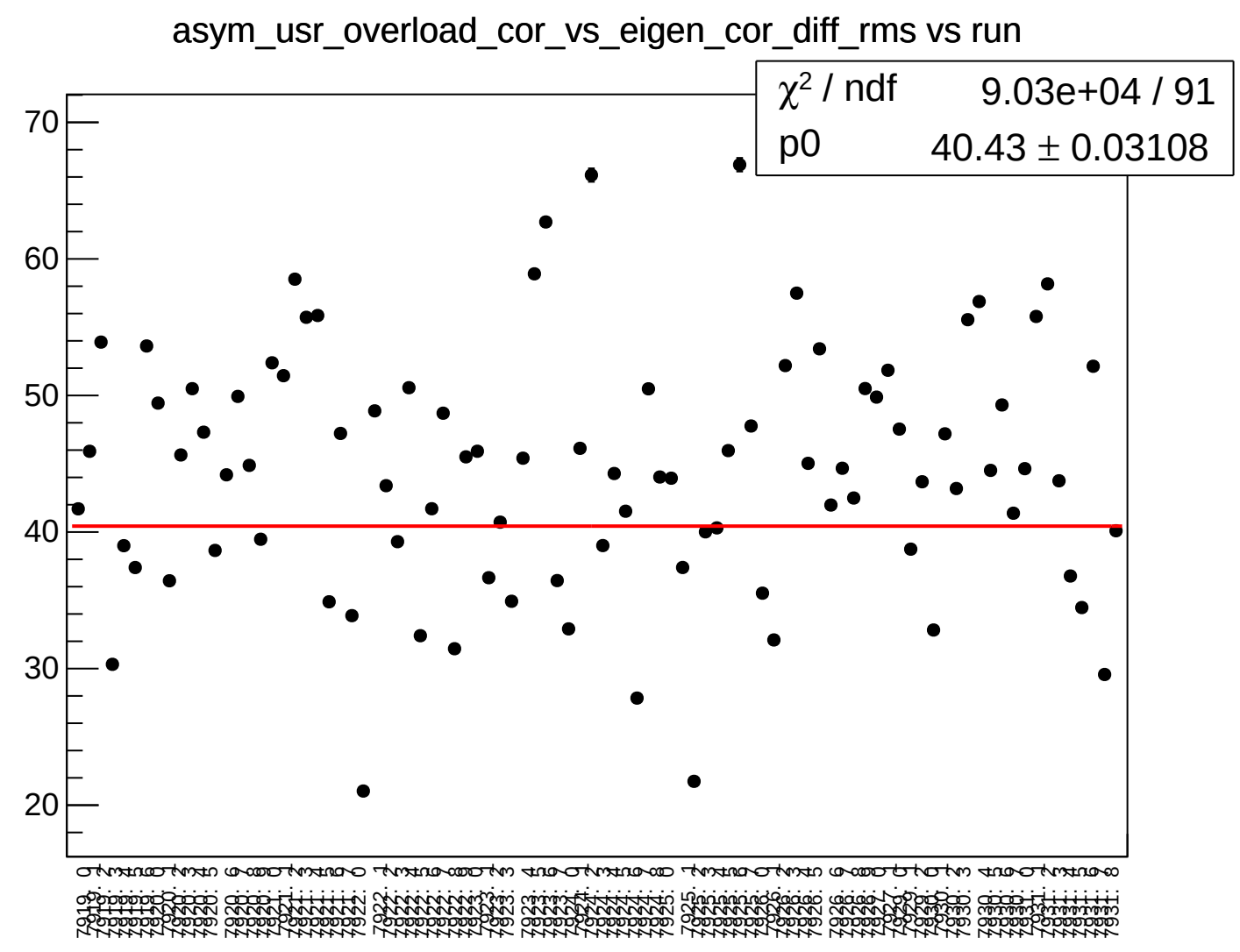

pull1D
Entries 92
Mean −0.0523
Std Dev 0.9891

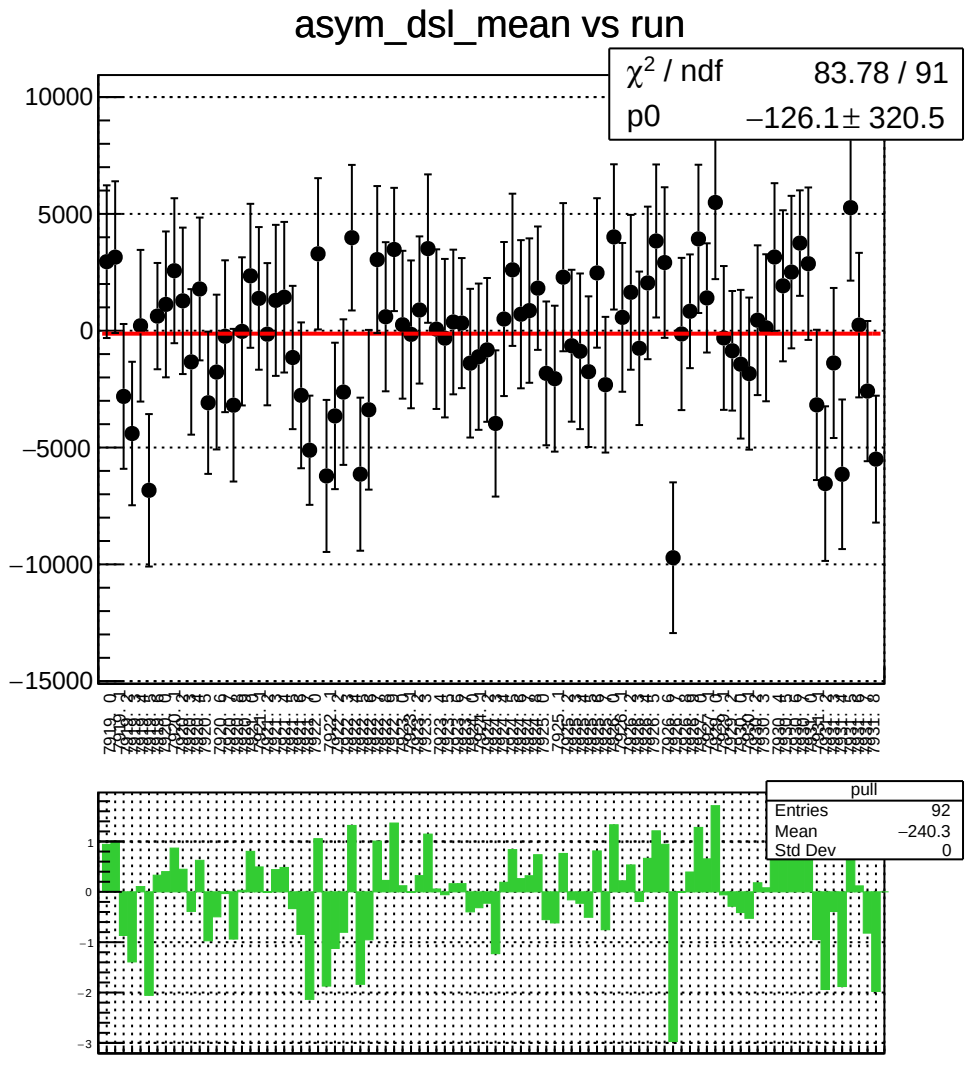

asym_usr_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
2.5
2
1.5
1
0.5
χ² / ndf 5.369e+05 / 91
p0 3.344e−10 ± 2.996e−13

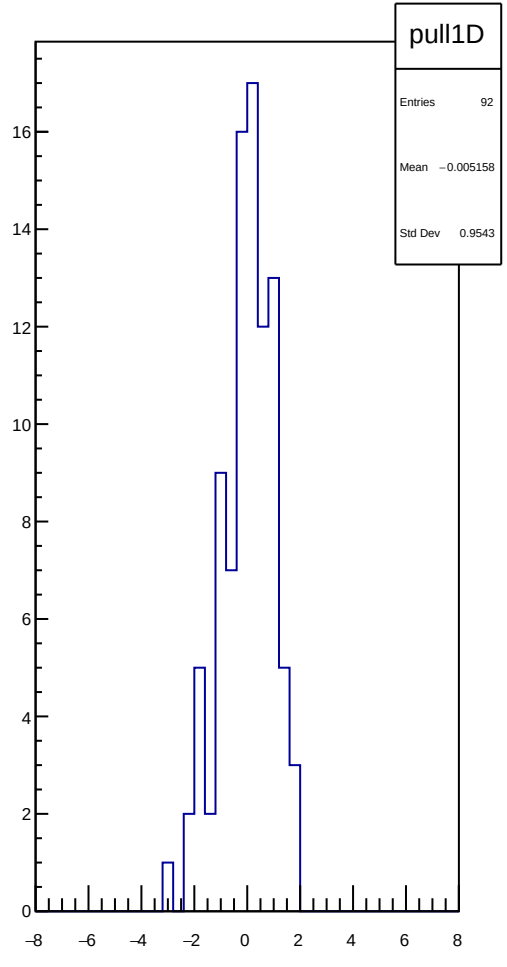

asym_usr_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 72.58 / 91
p0 −0.00967 ± 0.04395
pull
Entries 92
Mean 150.4
Std Dev 0
pull1D
Entries 92
Mean −0.0201
Std Dev 0.888

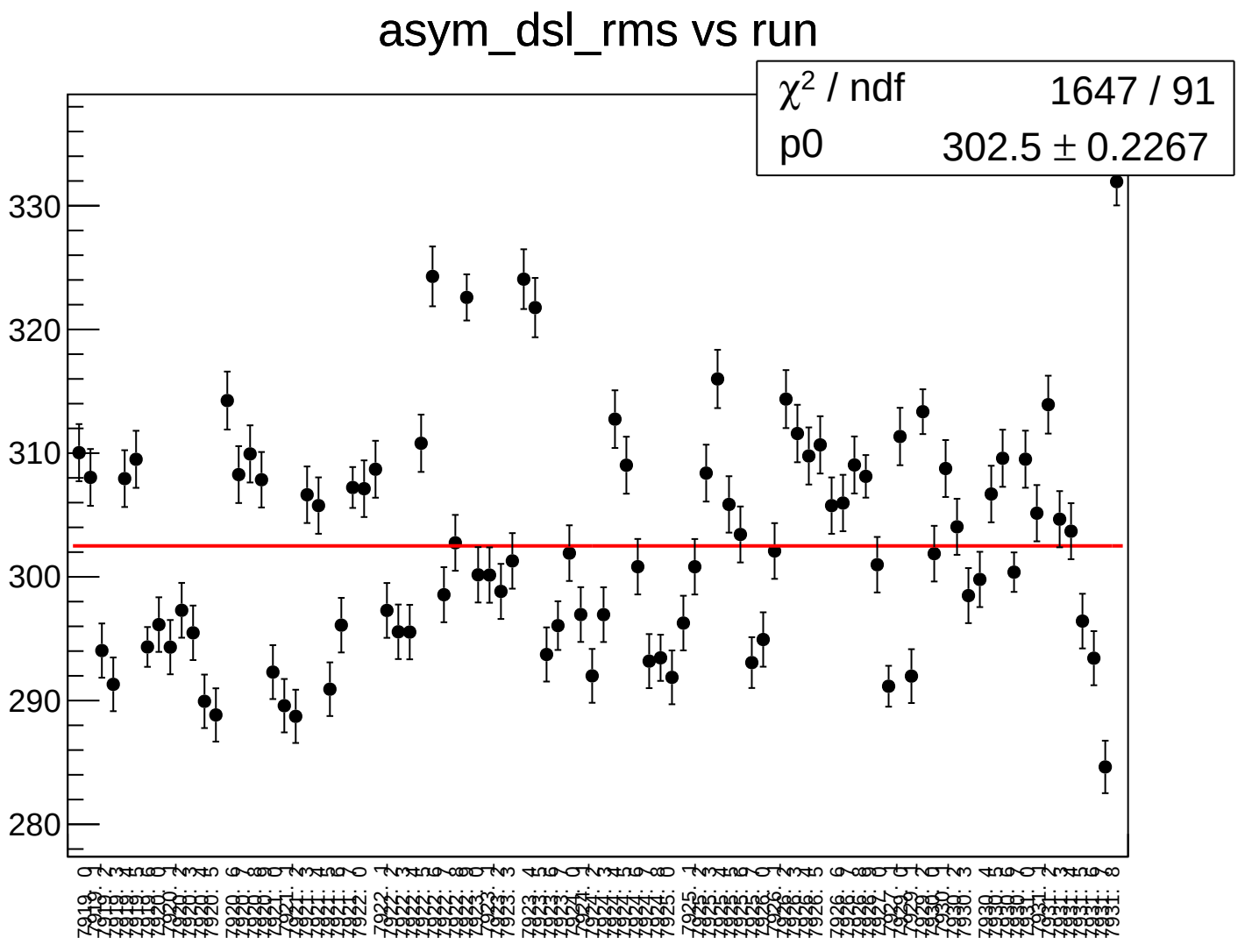

asym_usr_overload_cor_vs_cor_diff_rms vs run
χ^2 / ndf 9.03e+04 / 91
p0 40.43 ± 0.03108
70
60
50
40
30
20

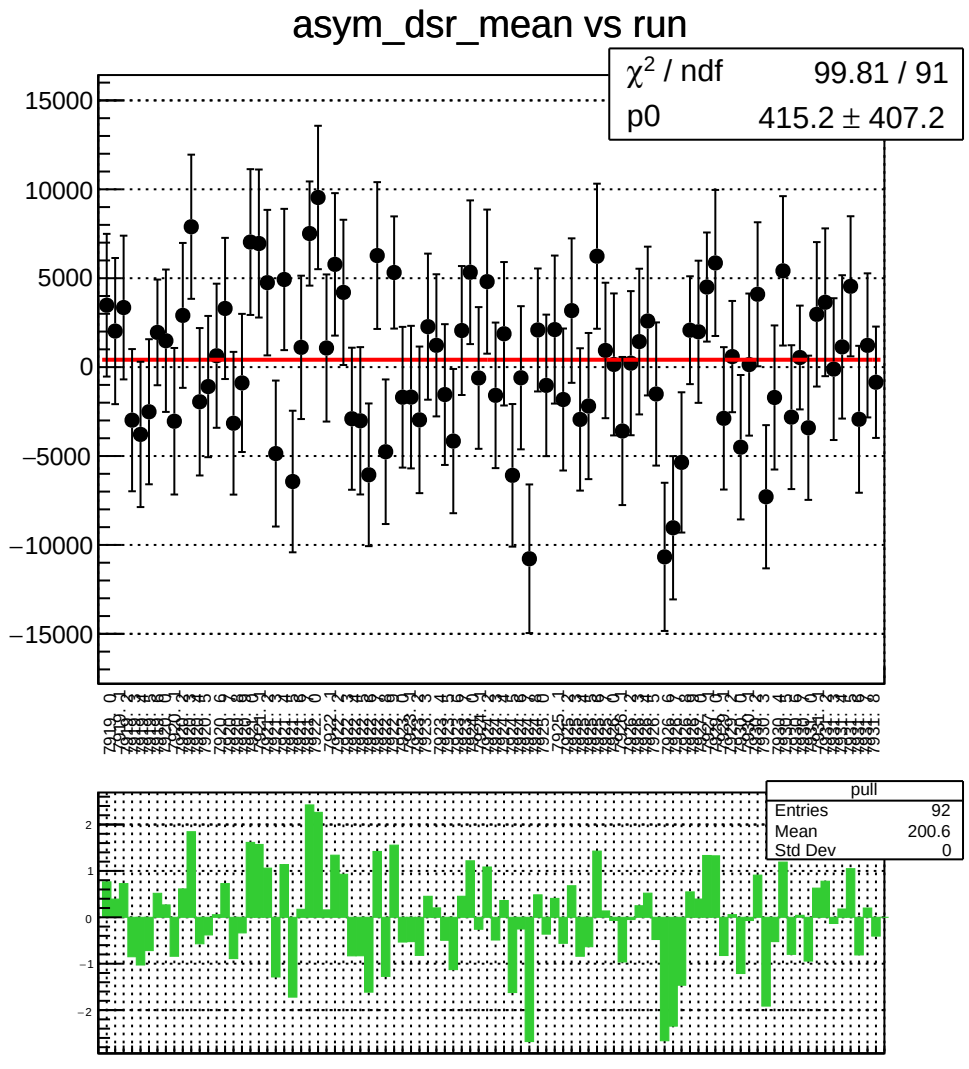

asym_usr_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.58 / 91
p0 −0.00967 ± 0.04395
pull
Entries 92
Mean 150.4
Std Dev 0
pull1D
Entries 92
Mean −0.0201
Std Dev 0.888

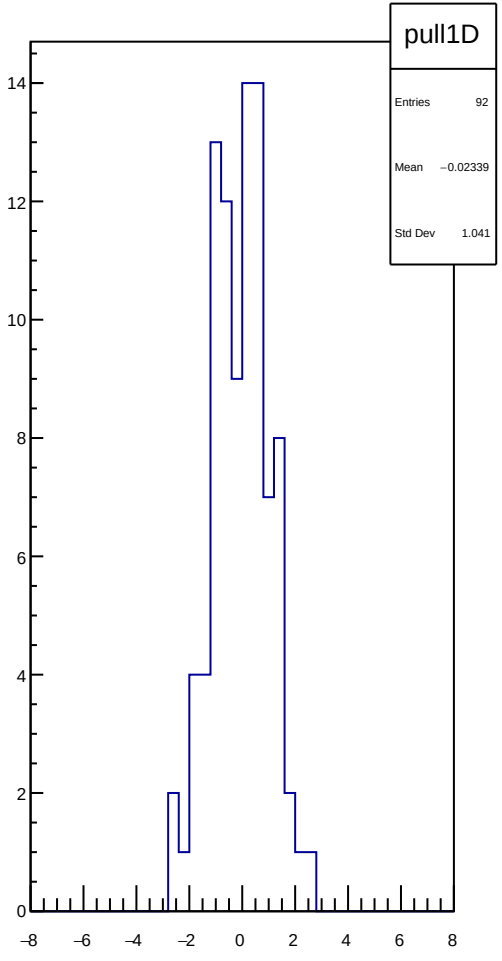

asym_usr_overload_cor_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 9.03e+04 / 91
p0 40.43 ± 0.03108
70
60
50
40
30
20

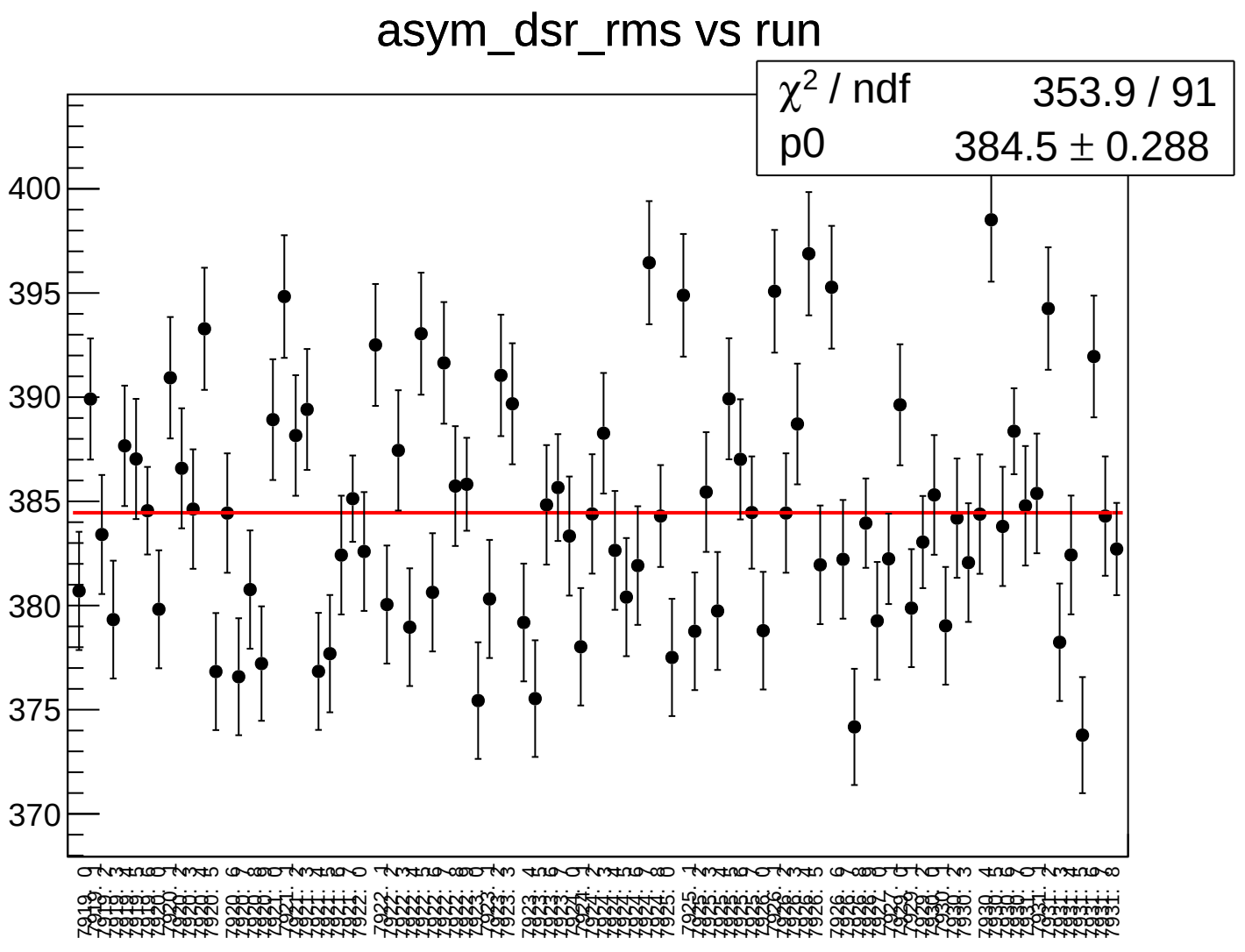

asym_dsl_mean vs run
χ² / ndf 83.78 / 91
p0 −126.1± 320.5
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean −240.3
Std Dev 0
1
0
−1
−2
−3

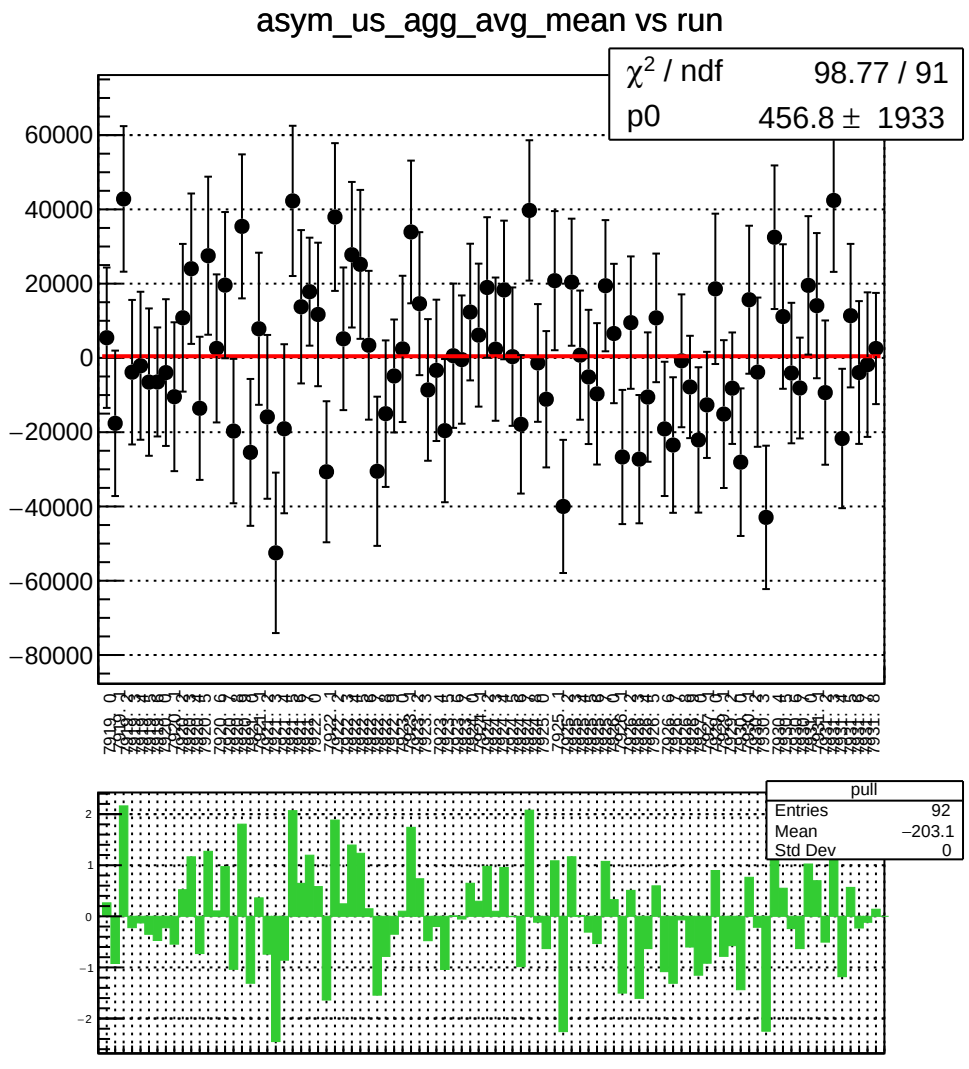

pull1D
Entries 92
Mean −0.005158
Std Dev 0.9543
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

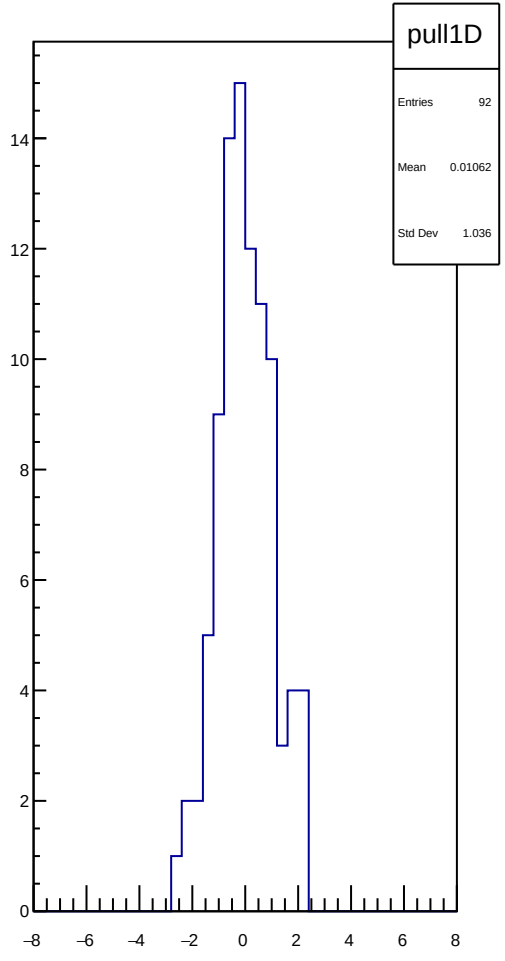

asym_dsl_rms vs run
χ^2 / ndf 1647 / 91
p0 302.5 ± 0.2267
330
320
310
300
290
280

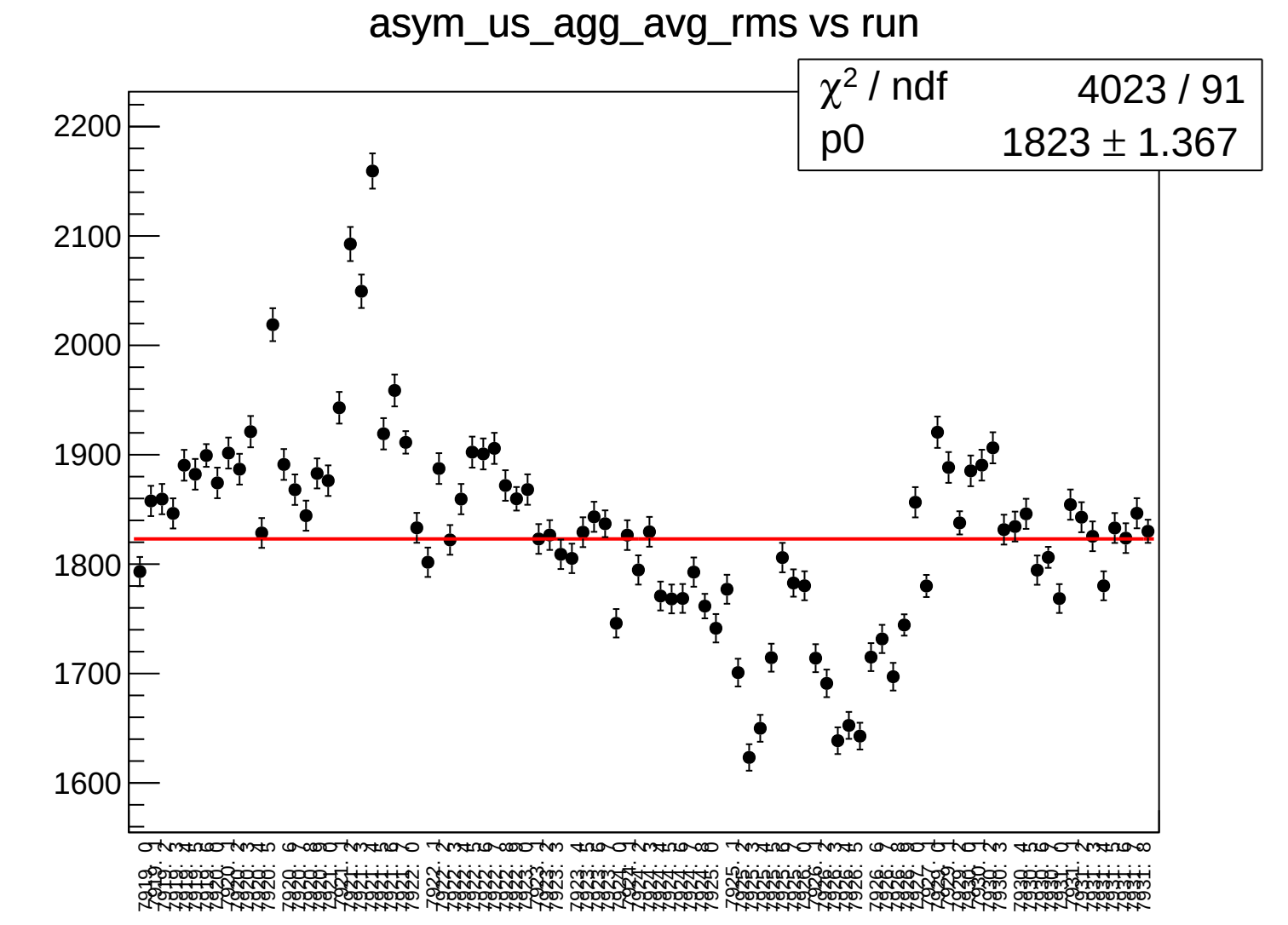

asym_dsr_mean vs run
χ² / ndf 99.81 / 91
p0 415.2 ± 407.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean 200.6
Std Dev 0
2
1
0
−1
−2

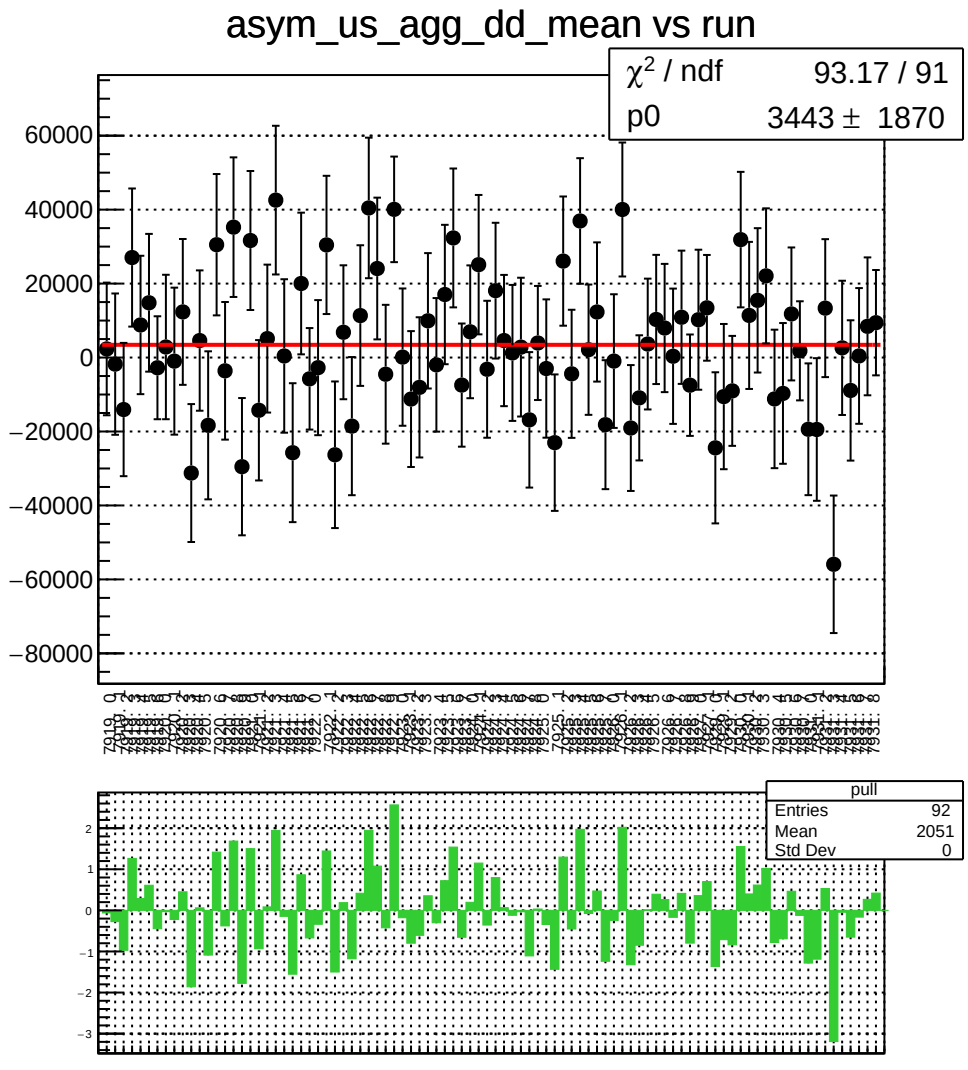

pull1D
Entries 92
Mean −0.02339
Std Dev 1.041
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

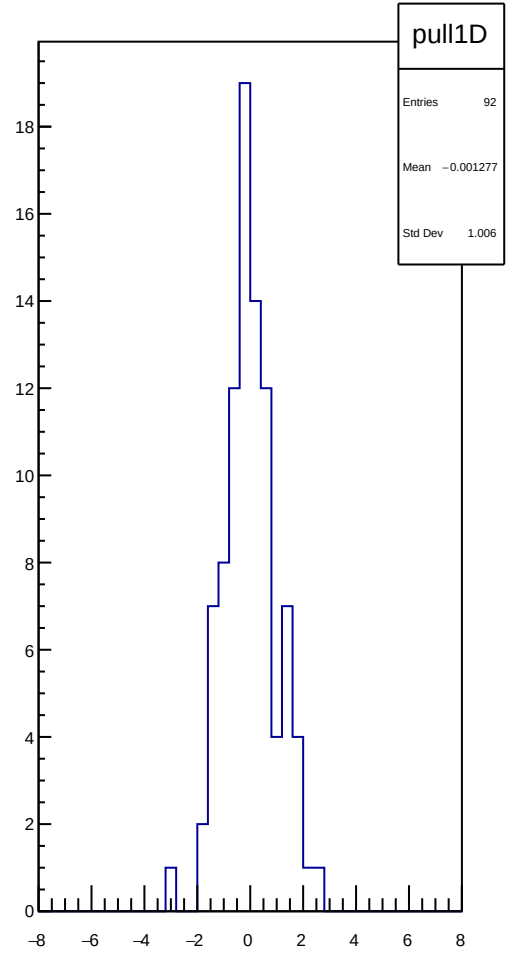

asym_dsr_rms vs run
χ^2 / ndf 353.9 / 91
p0 384.5 ± 0.288
400
395
390
385
380
375
370

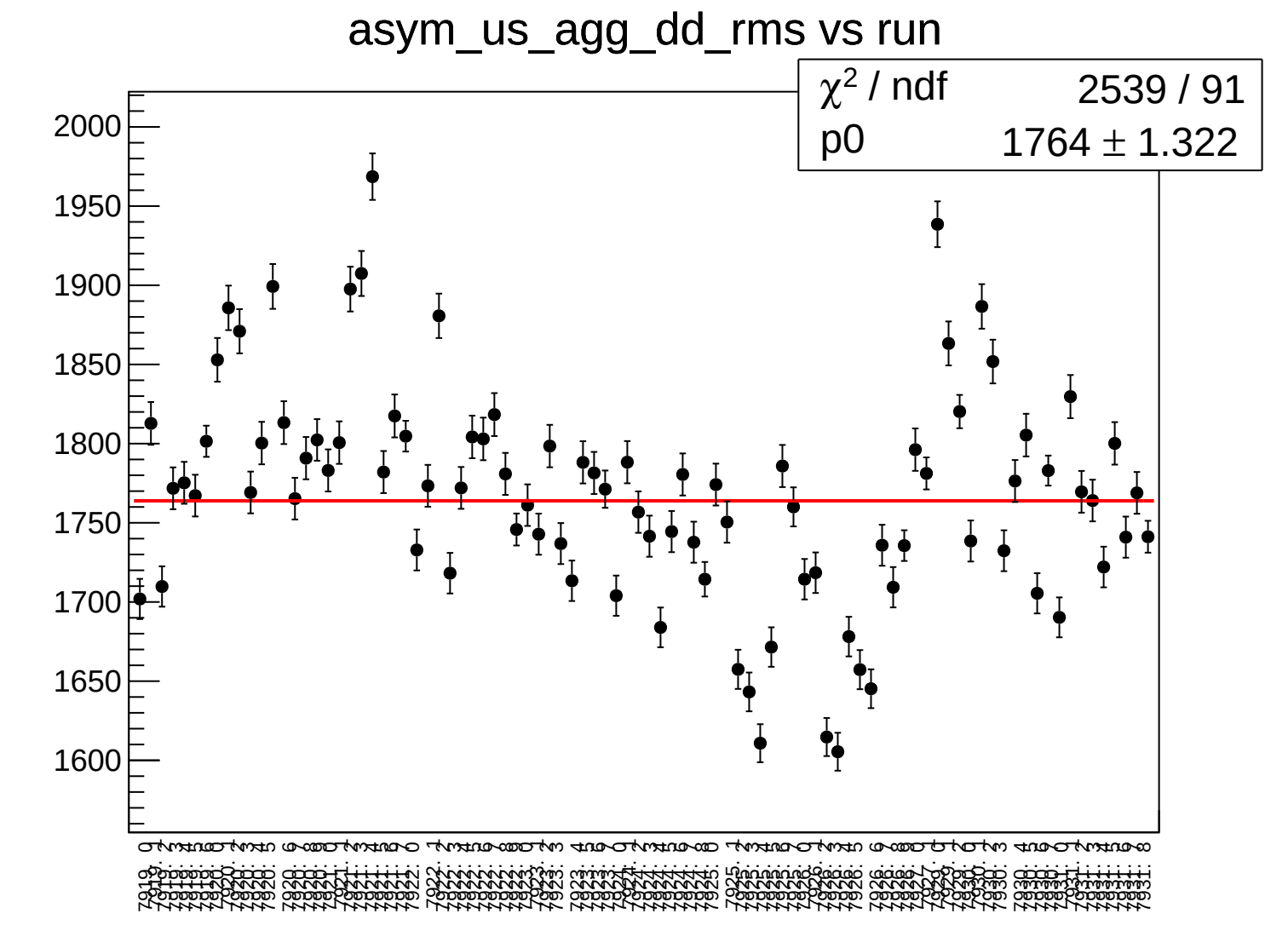

asym_us_agg_avg_mean vs run
χ² / ndf 98.77 / 91
p0 456.8 ± 1933
pull
Entries 92
Mean −203.1
Std Dev 0

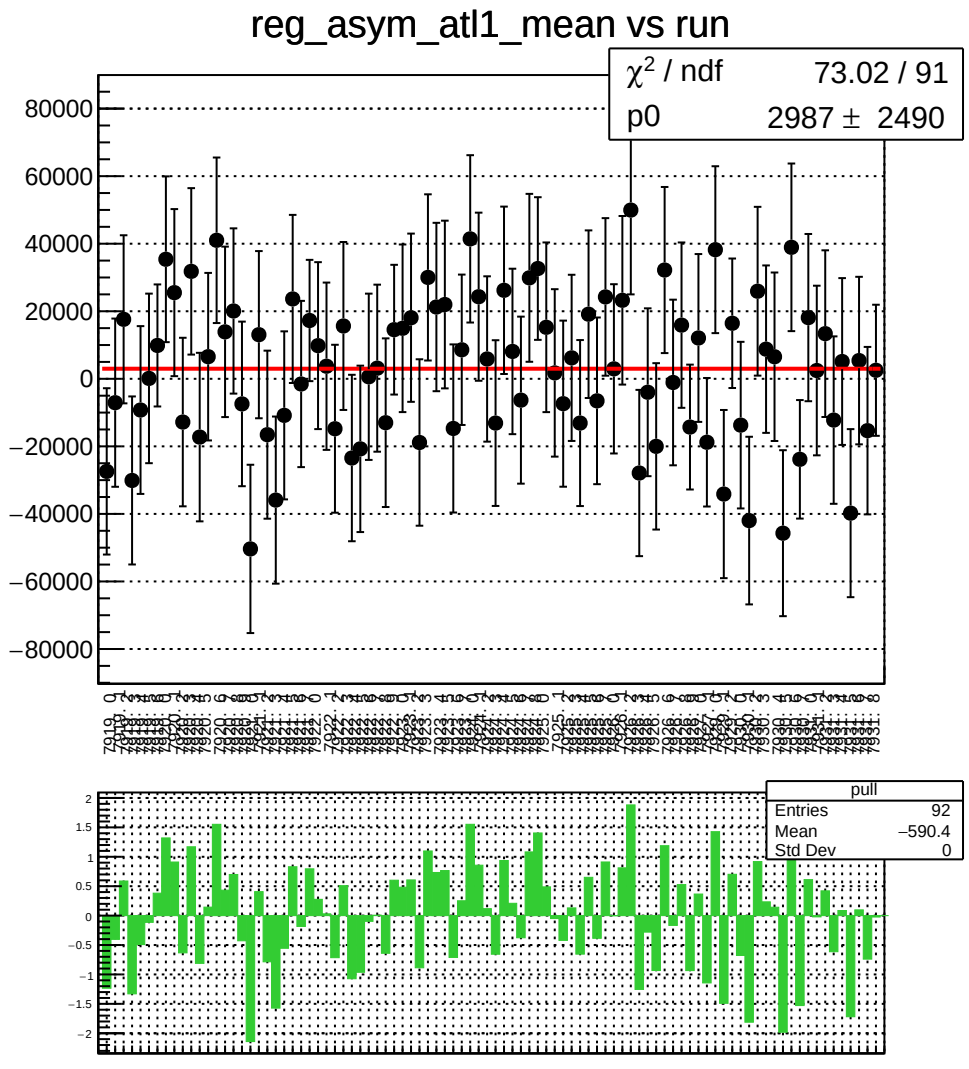

pull1D
Entries 92
Mean 0.01062
Std Dev 1.036

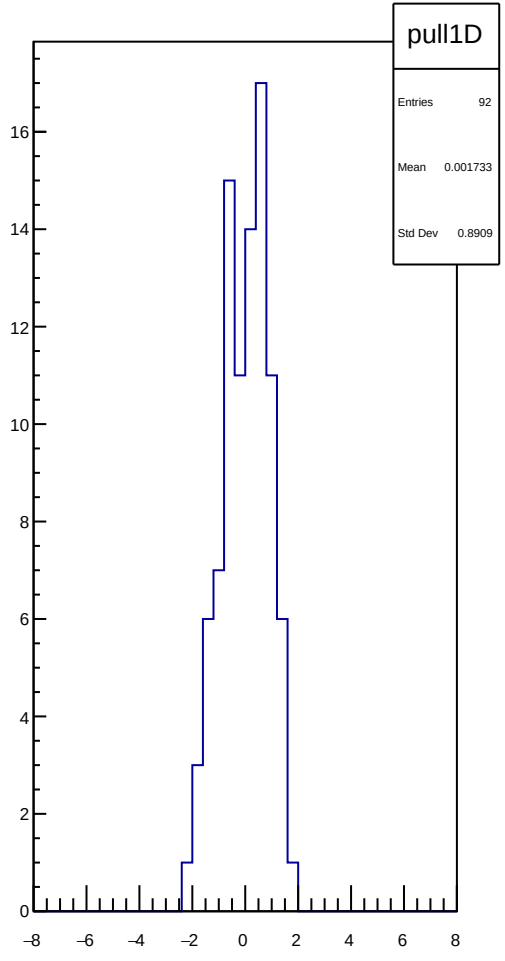

asym_us_agg_avg_rms vs run
χ^2 / ndf 4023 / 91
p0 1823 ± 1.367
2200
2100
2000
1900
1800
1700
1600

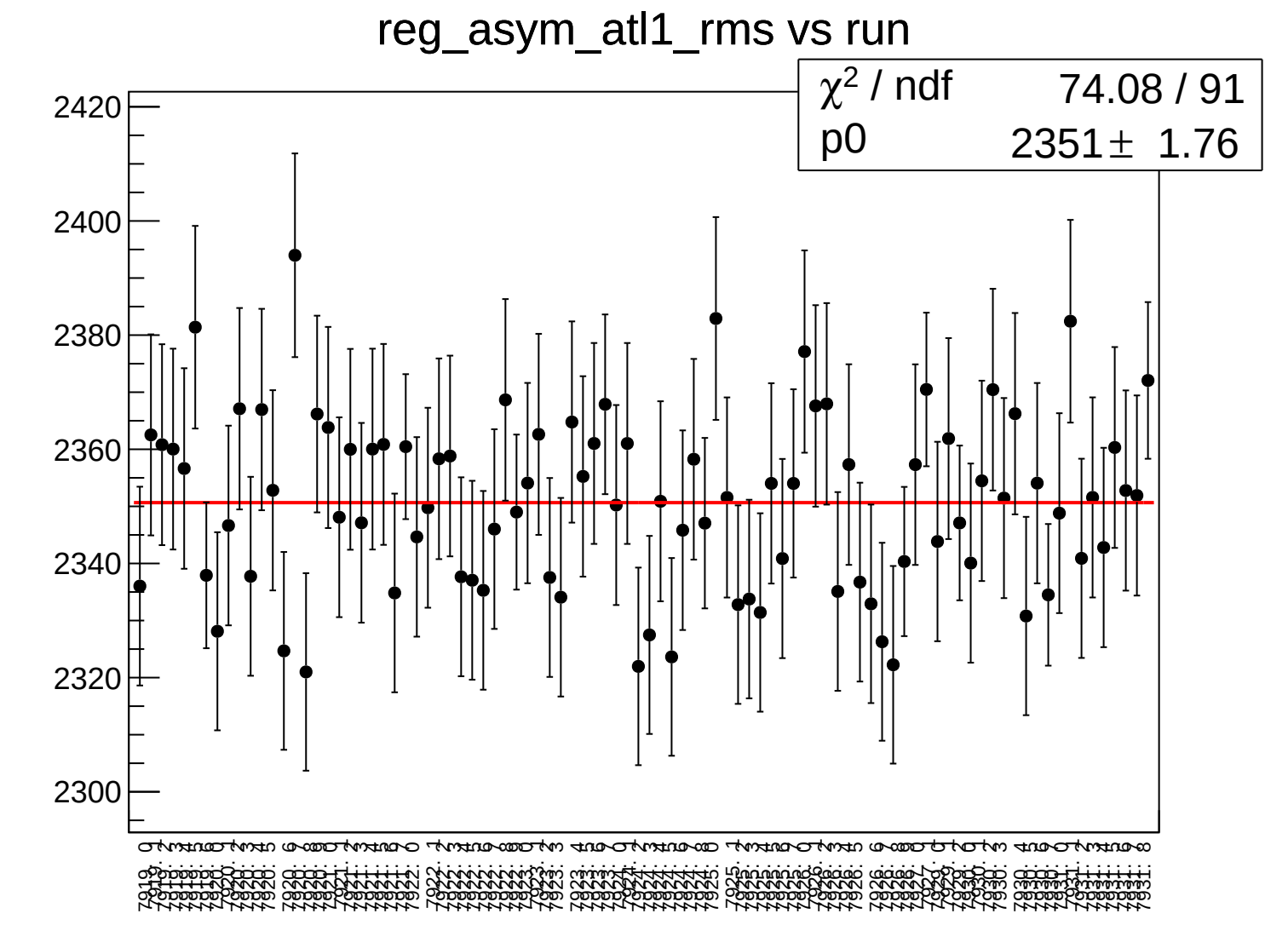

asym_us_agg_dd_mean vs run
χ² / ndf 93.17 / 91
p0 3443 ± 1870
pull
Entries 92
Mean 2051
Std Dev 0

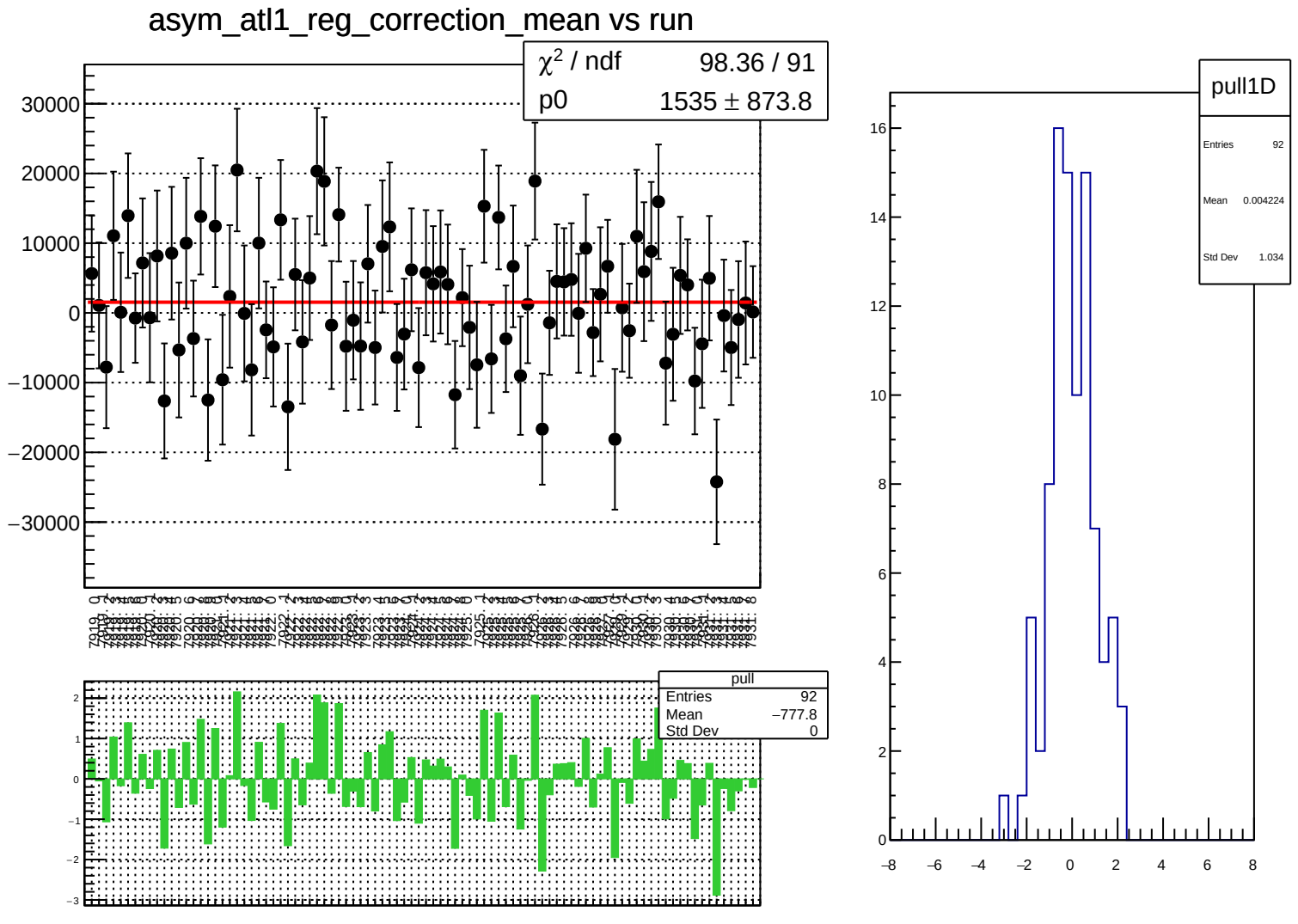

pull1D
Entries 92
Mean −0.001277
Std Dev 1.006

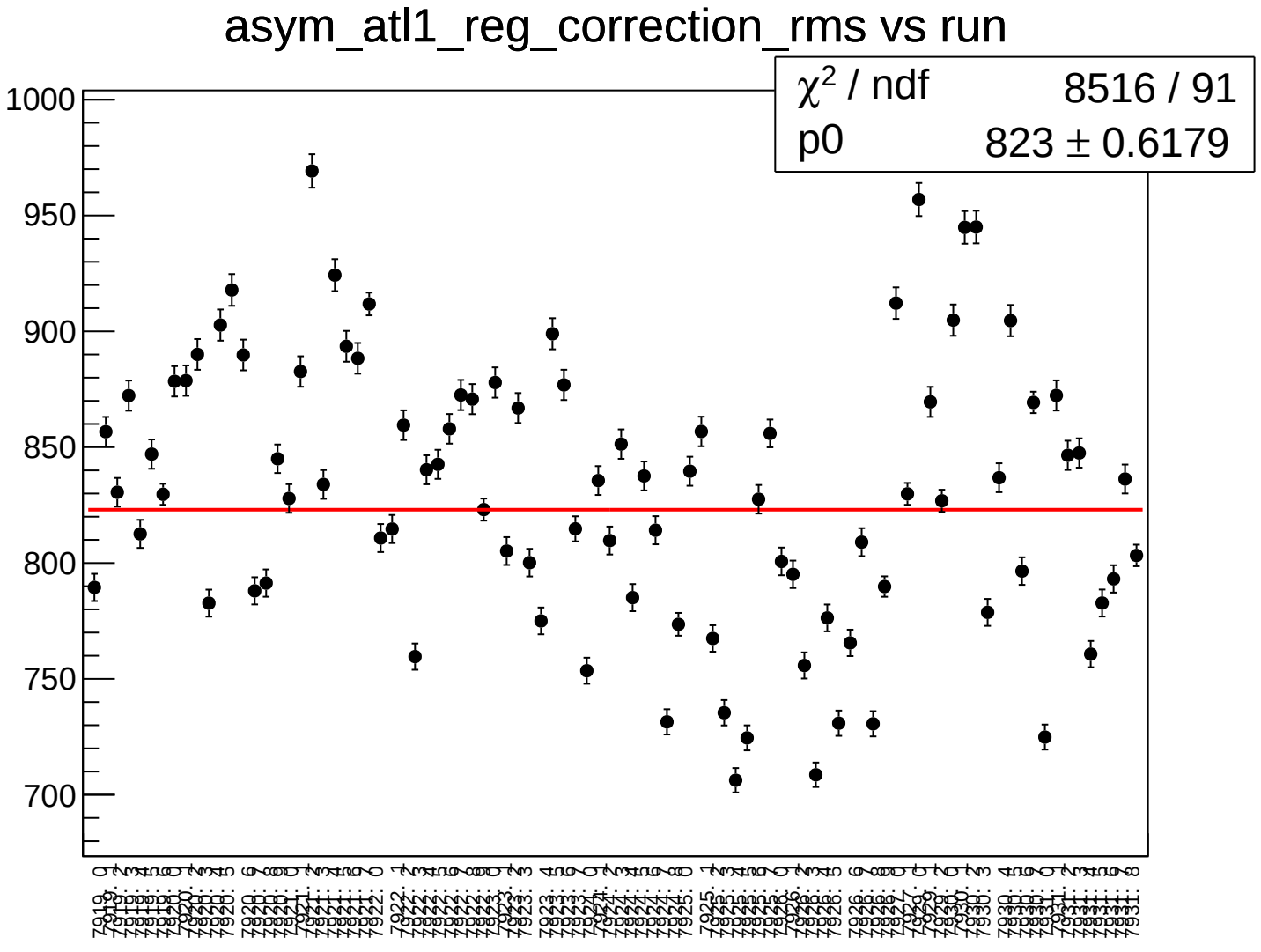

asym_us_agg_dd_rms vs run
χ² / ndf 2539 / 91
p0 1764 ± 1.322
2000
1950
1900
1850
1800
1750
1700
1650
1600

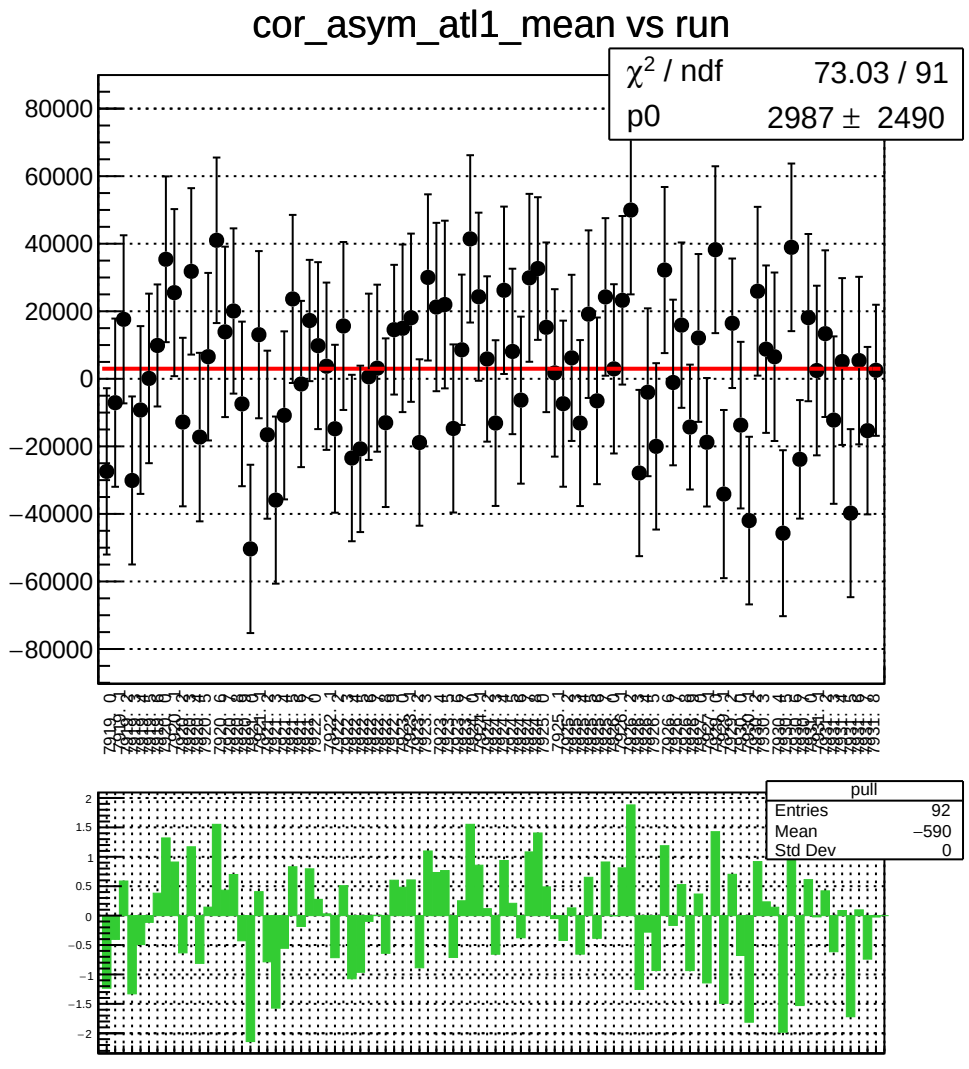

reg_asym_atl1_mean vs run
χ² / ndf 73.02 / 91
p0 2987 ± 2490
pull
Entries 92
Mean −590.4
Std Dev 0

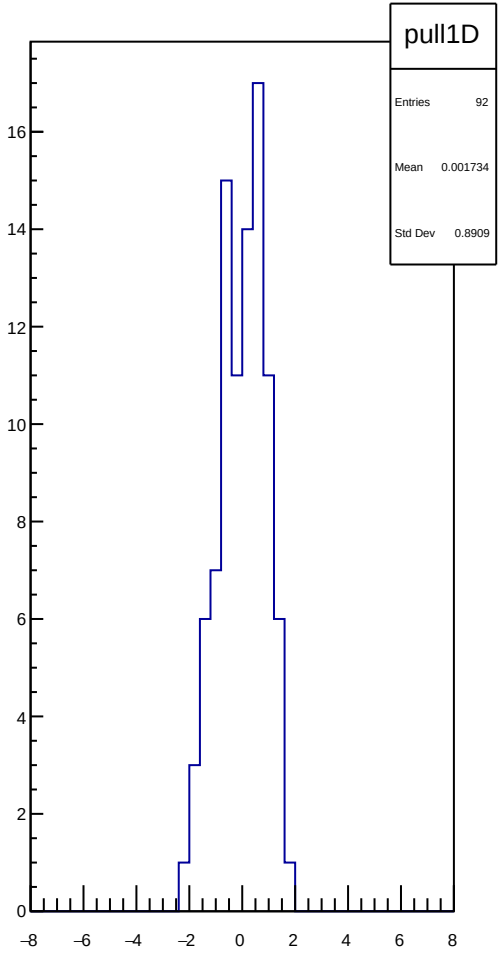

pull1D
Entries 92
Mean 0.001733
Std Dev 0.8909

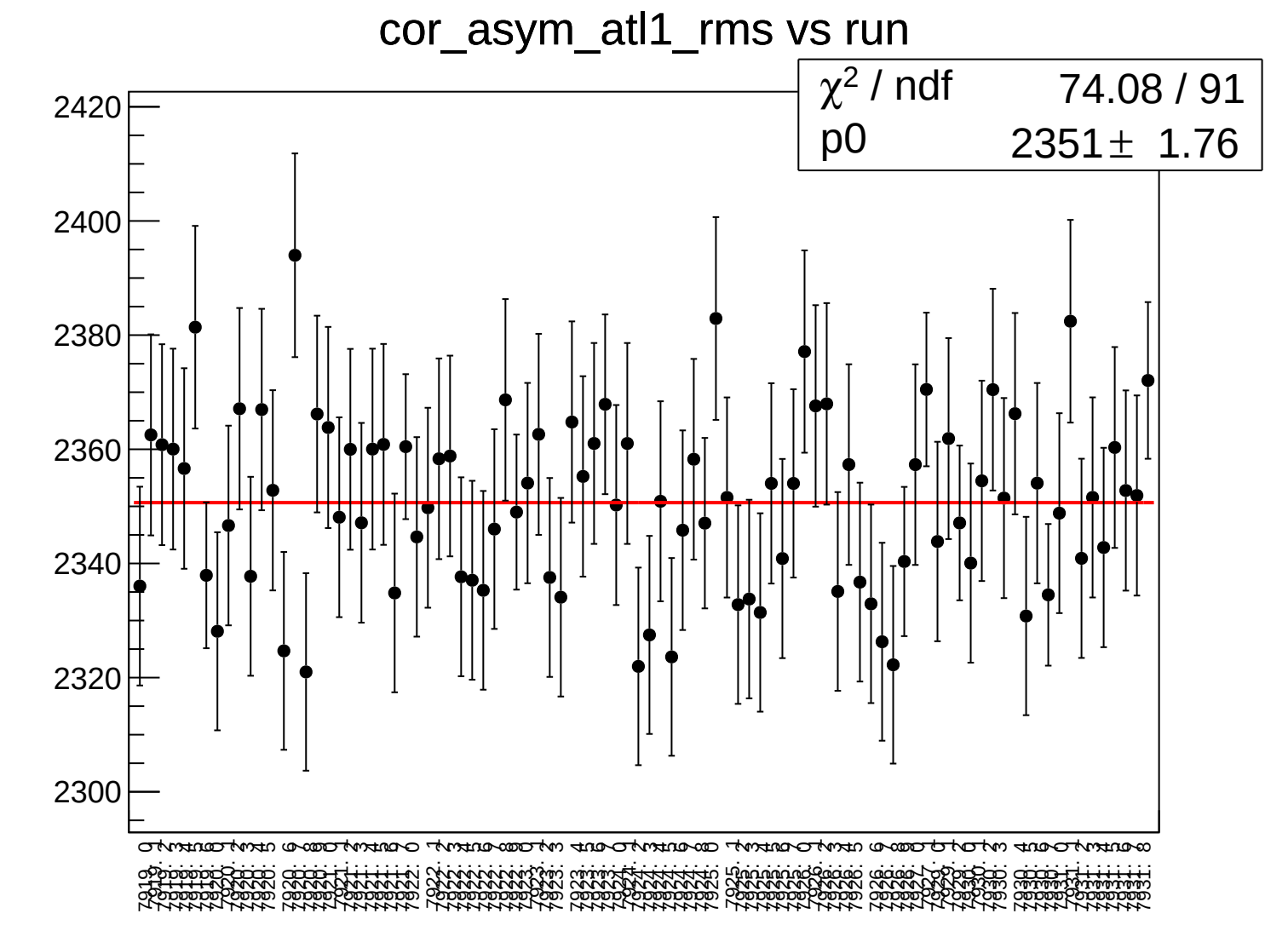

reg_asym_atl1_rms vs run
χ² / ndf 74.08 / 91
p0 2351 ± 1.76
2420
2400
2380
2360
2340
2320
2300

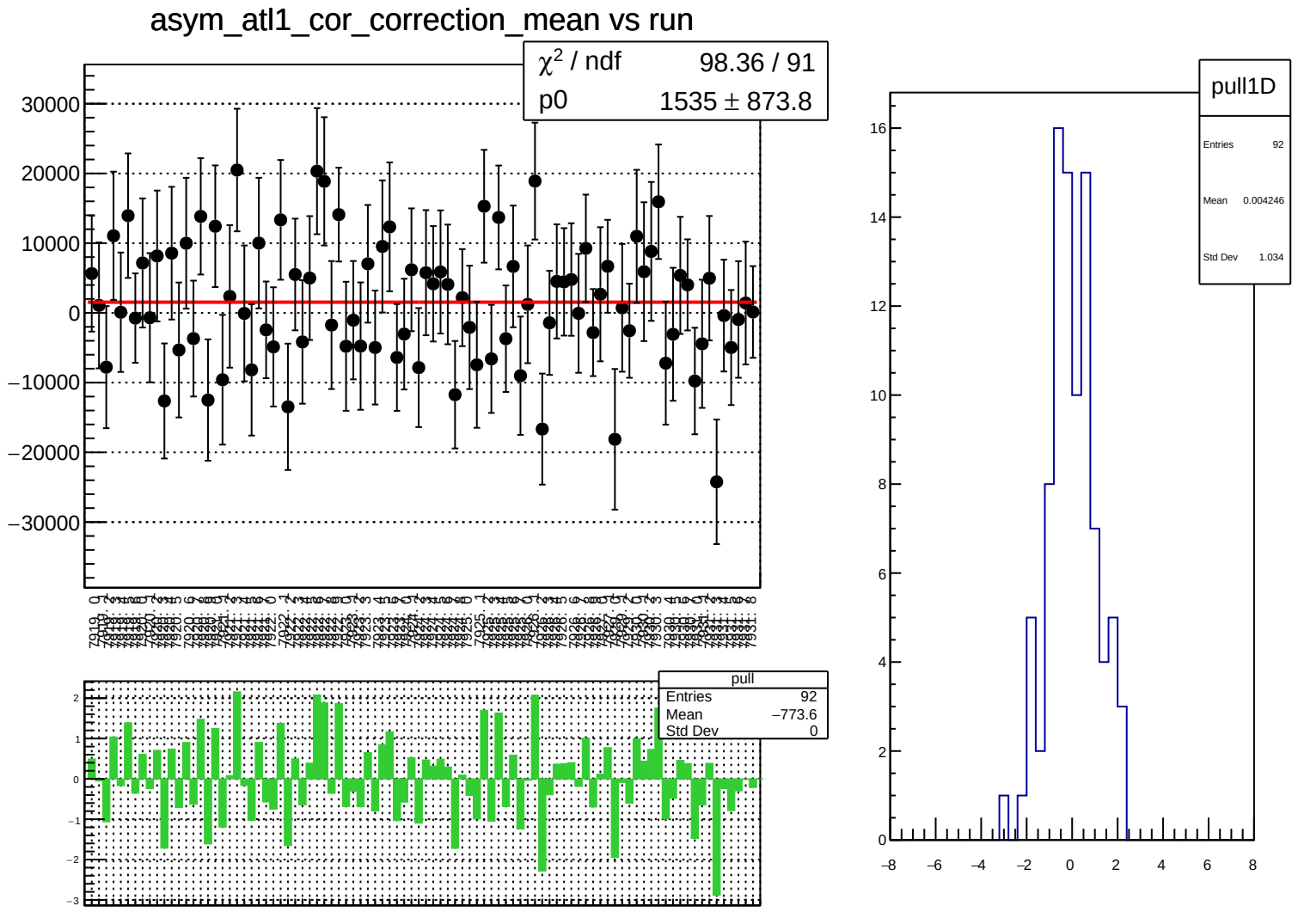

asym_atl1_reg_correction_mean vs run
χ² / ndf 98.36 / 91
p0 1535 ± 873.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −777.8
Std Dev 0
pull1D
Entries 92
Mean 0.004224
Std Dev 1.034

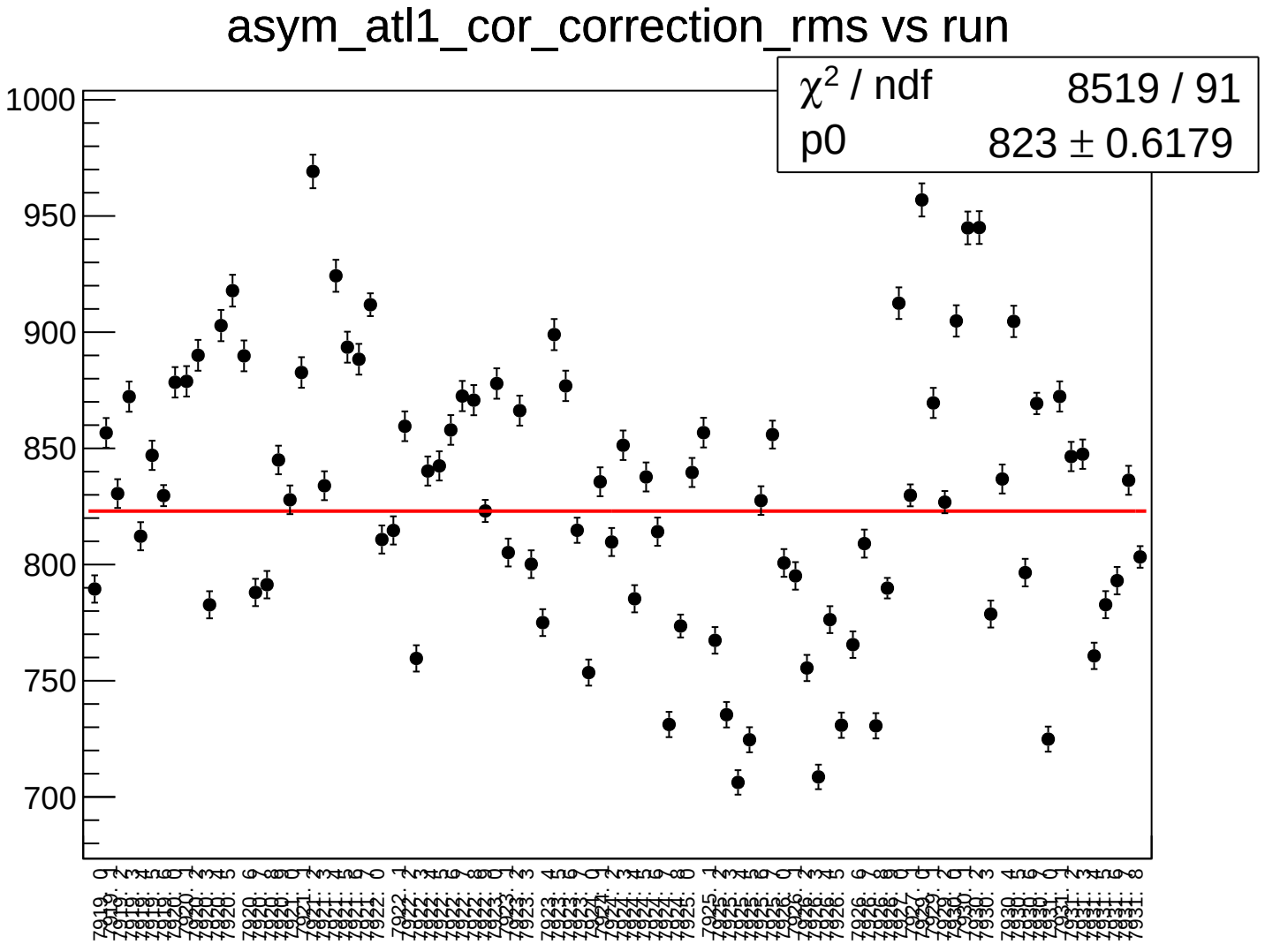

asym_atl1_reg_correction_rms vs run
χ² / ndf 8516 / 91
p0 823 ± 0.6179
1000
950
900
850
800
750
700

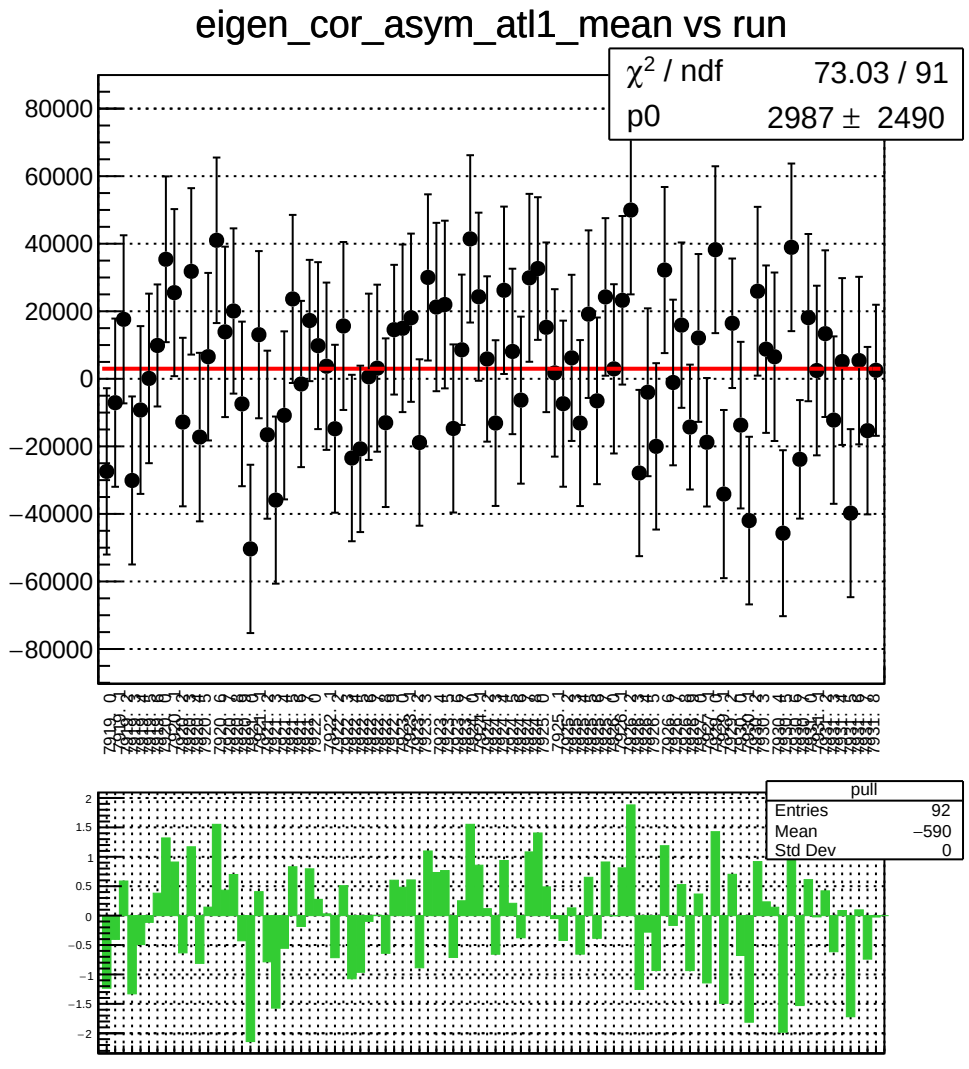

cor_asym_atl1_mean vs run
χ² / ndf 73.03 / 91
p0 2987 ± 2490
pull
Entries 92
Mean −590
Std Dev 0

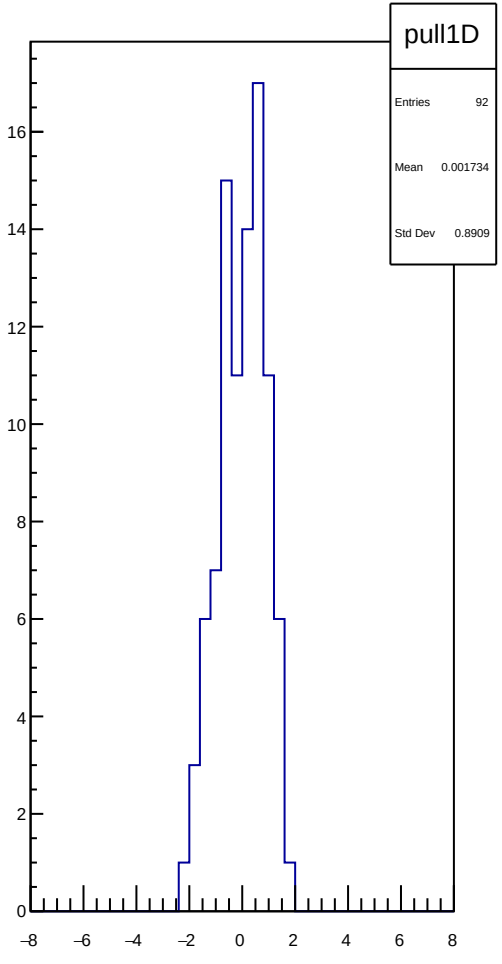

pull1D
Entries 92
Mean 0.001734
Std Dev 0.8909

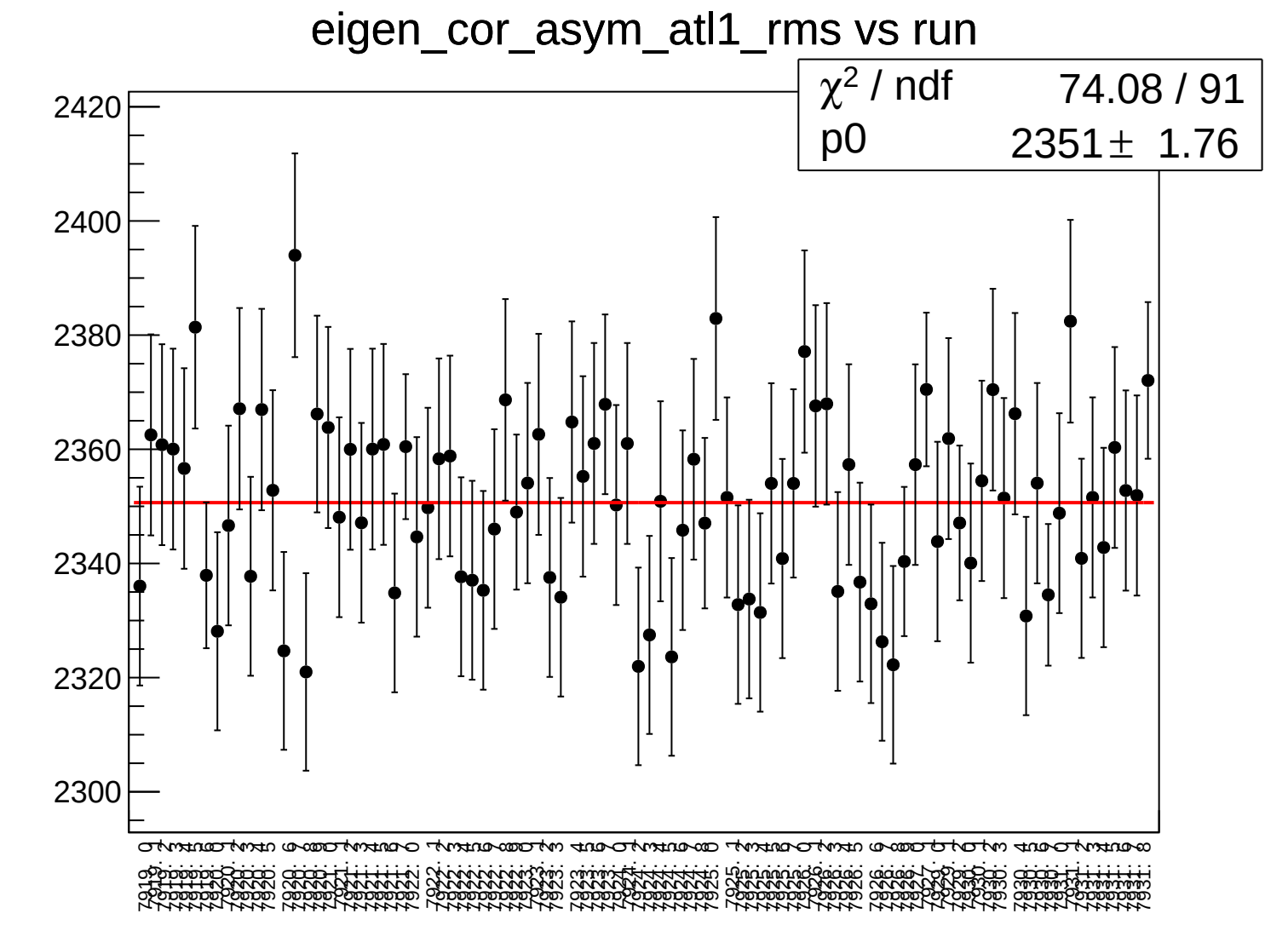

cor_asym_atl1_rms vs run
χ^2 / ndf 74.08 / 91
p0 2351 ± 1.76
2420
2400
2380
2360
2340
2320
2300

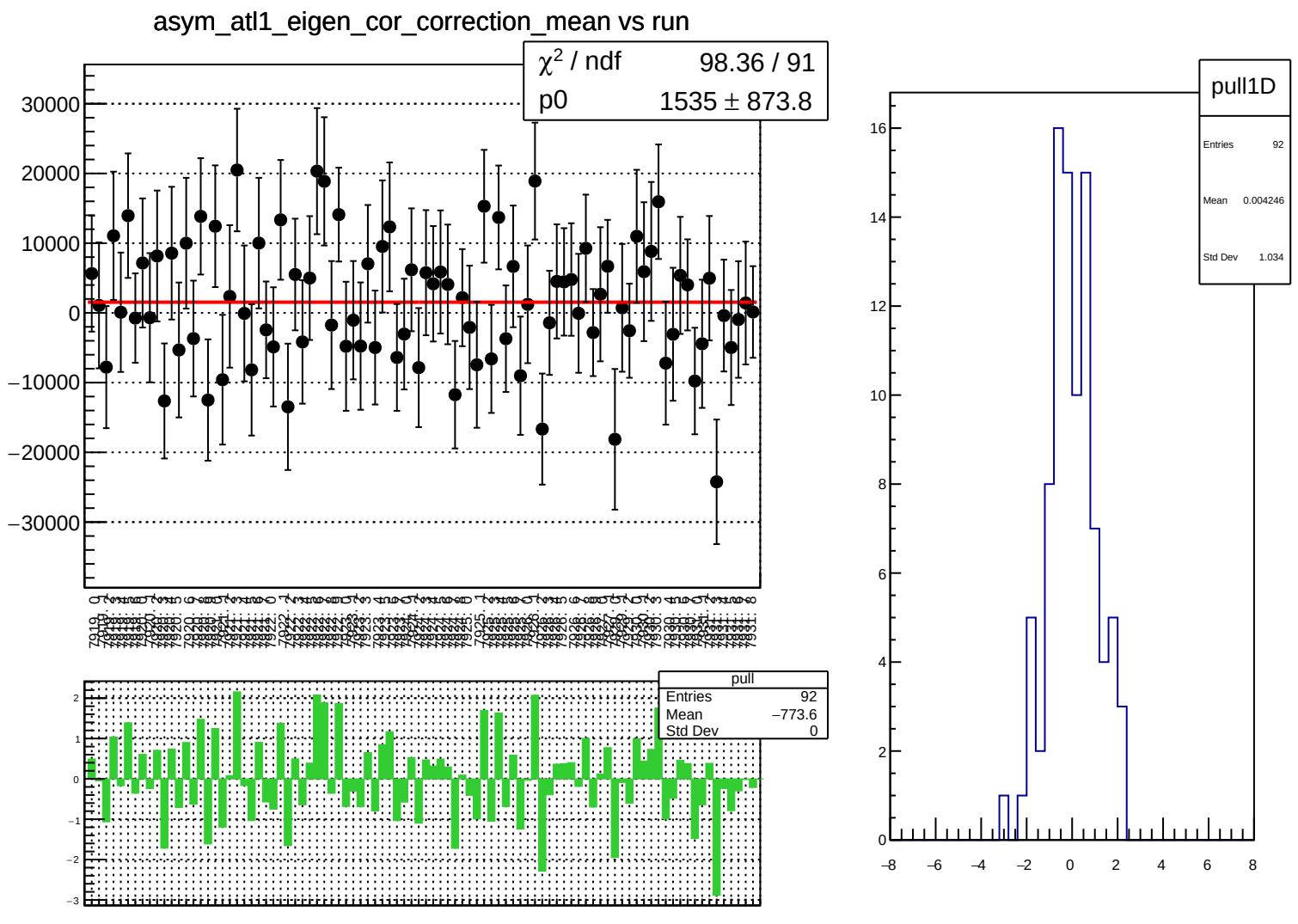

asym_atl1_cor_correction_mean vs run
χ² / ndf 98.36 / 91
p0 1535 ± 873.8
pull
Entries 92
Mean −773.6
Std Dev 0
pull1D
Entries 92
Mean 0.004246
Std Dev 1.034

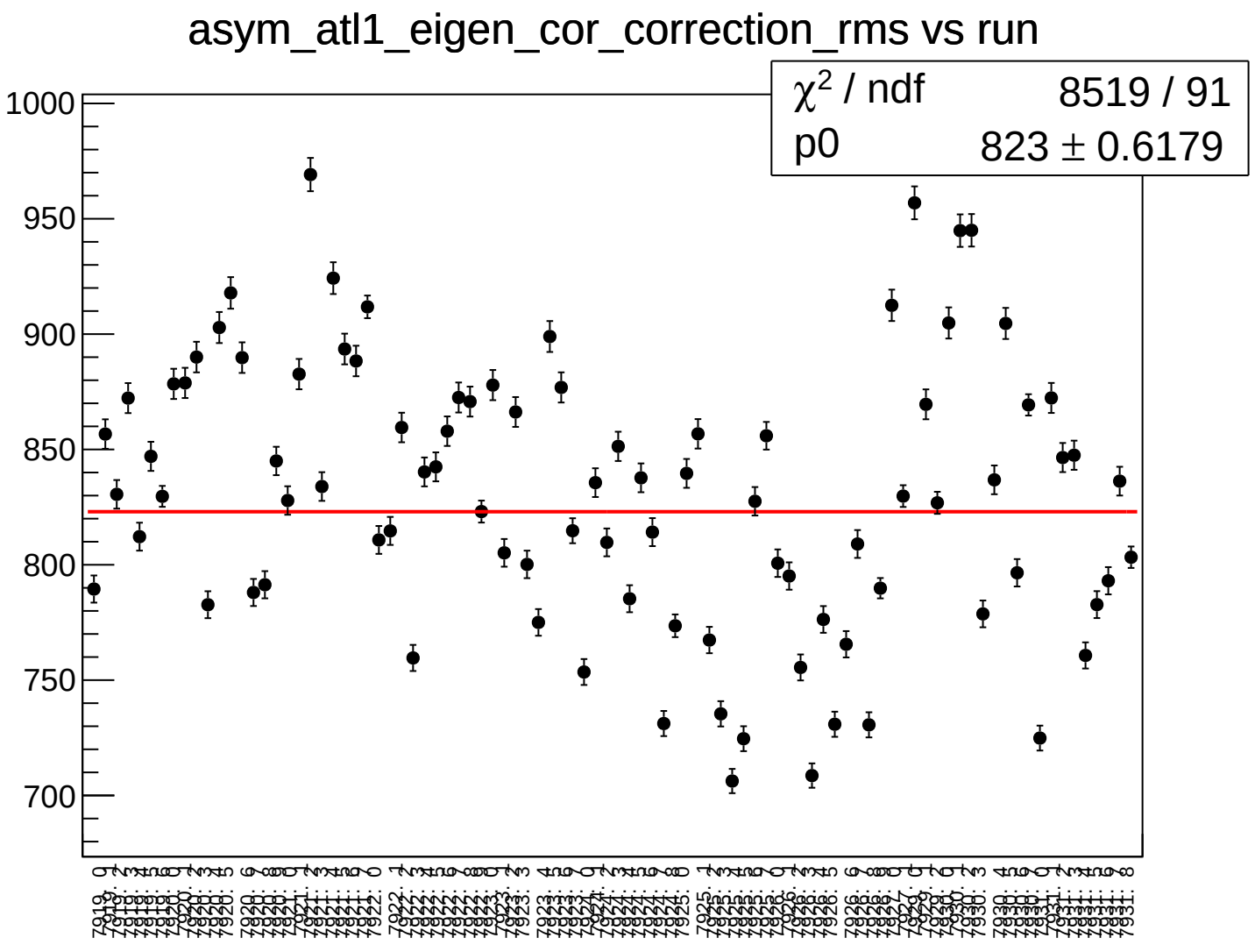

asym_atl1_cor_correction_rms vs run
χ² / ndf 8519 / 91
p0 823 ± 0.6179
1000
950
900
850
800
750
700

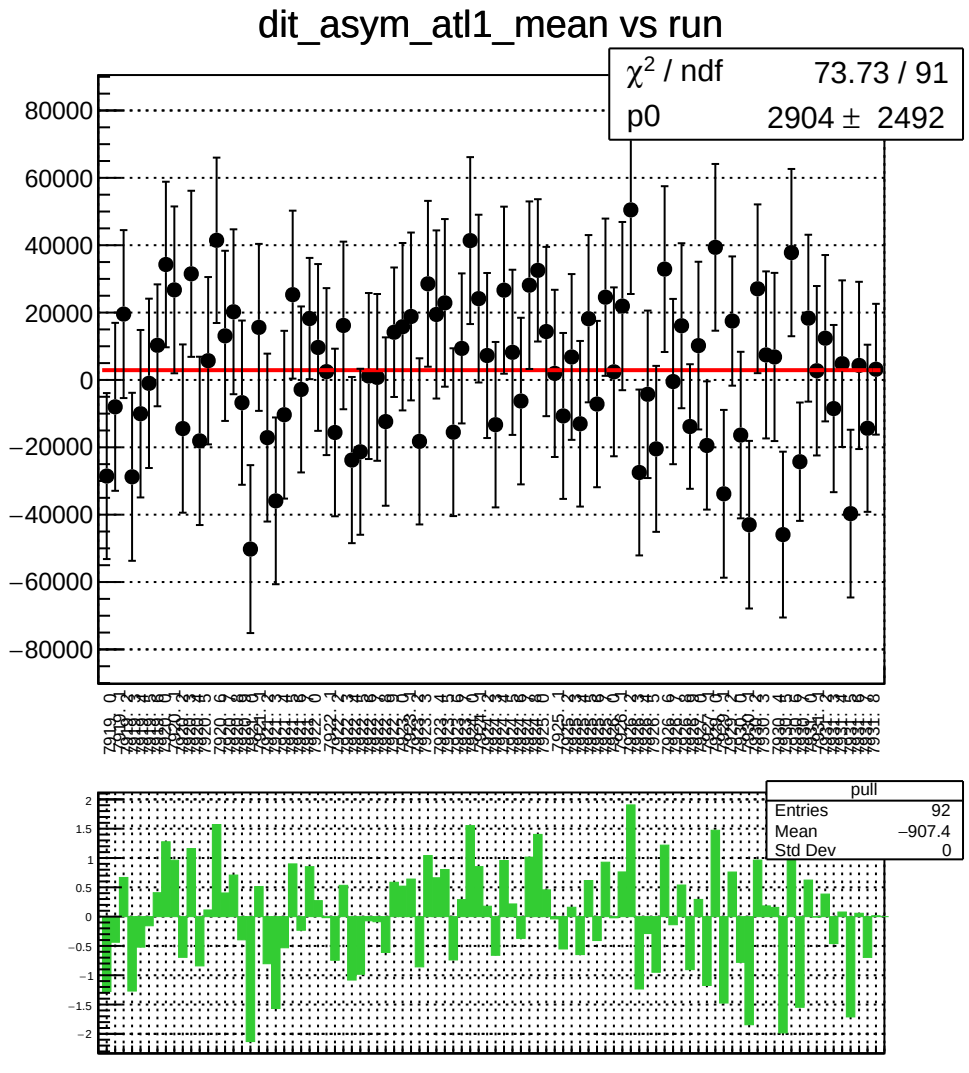

eigen_cor_asym_atl1_mean vs run
χ² / ndf 73.03 / 91
p0 2987 ± 2490
pull
Entries 92
Mean −590
Std Dev 0

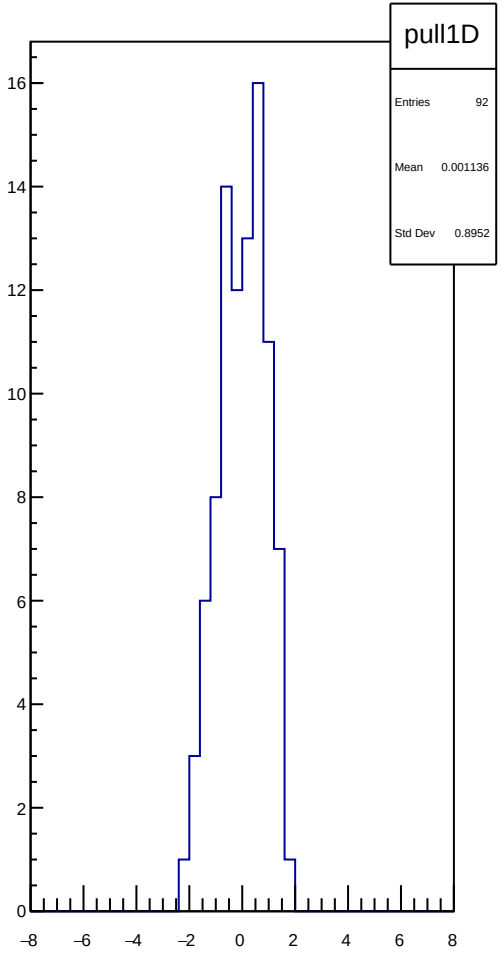

pull1D
Entries 92
Mean 0.001734
Std Dev 0.8909

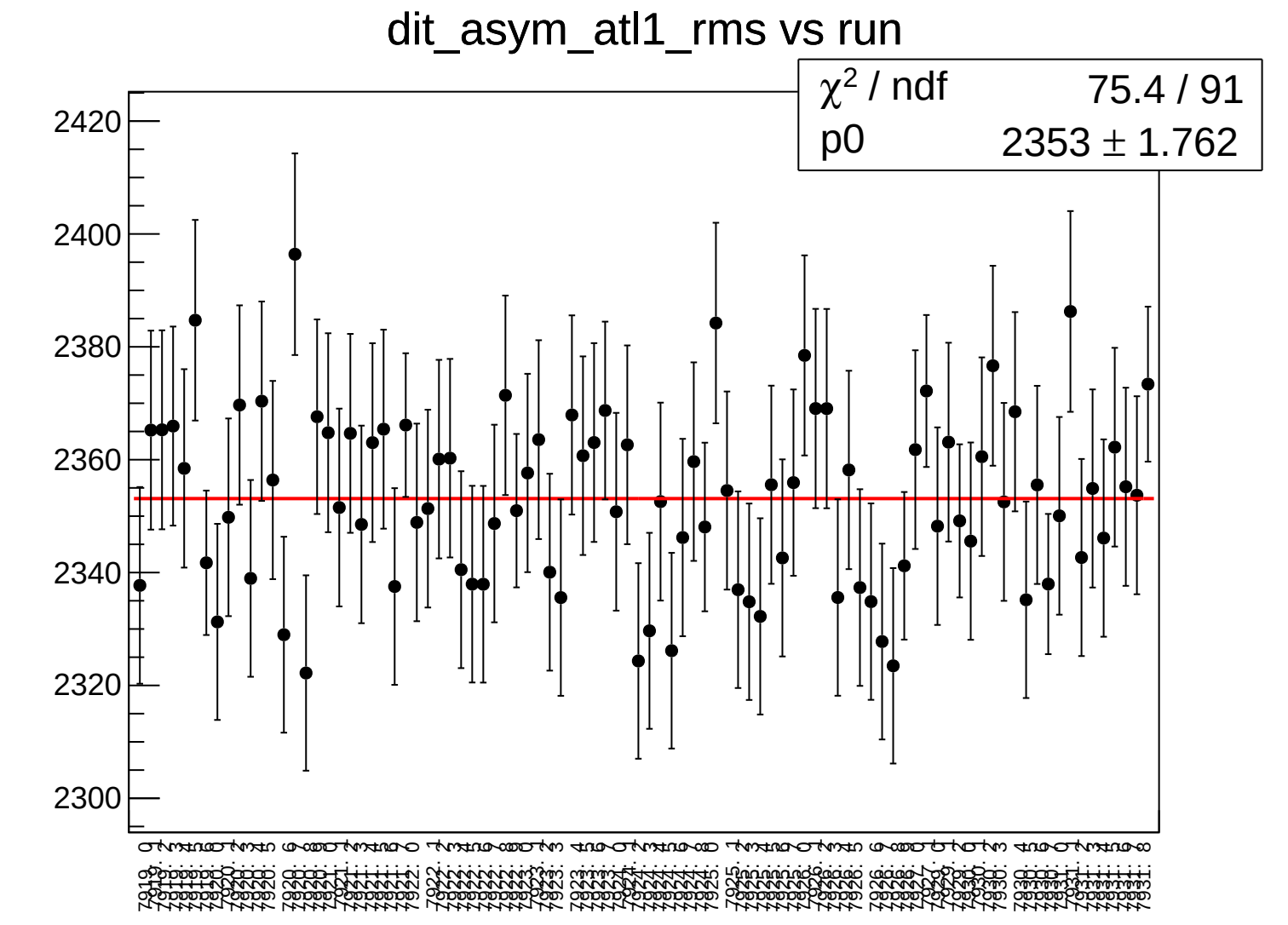

eigen_cor_asym_atl1_rms vs run
χ² / ndf 74.08 / 91
p0 2351 ± 1.76
2420
2400
2380
2360
2340
2320
2300

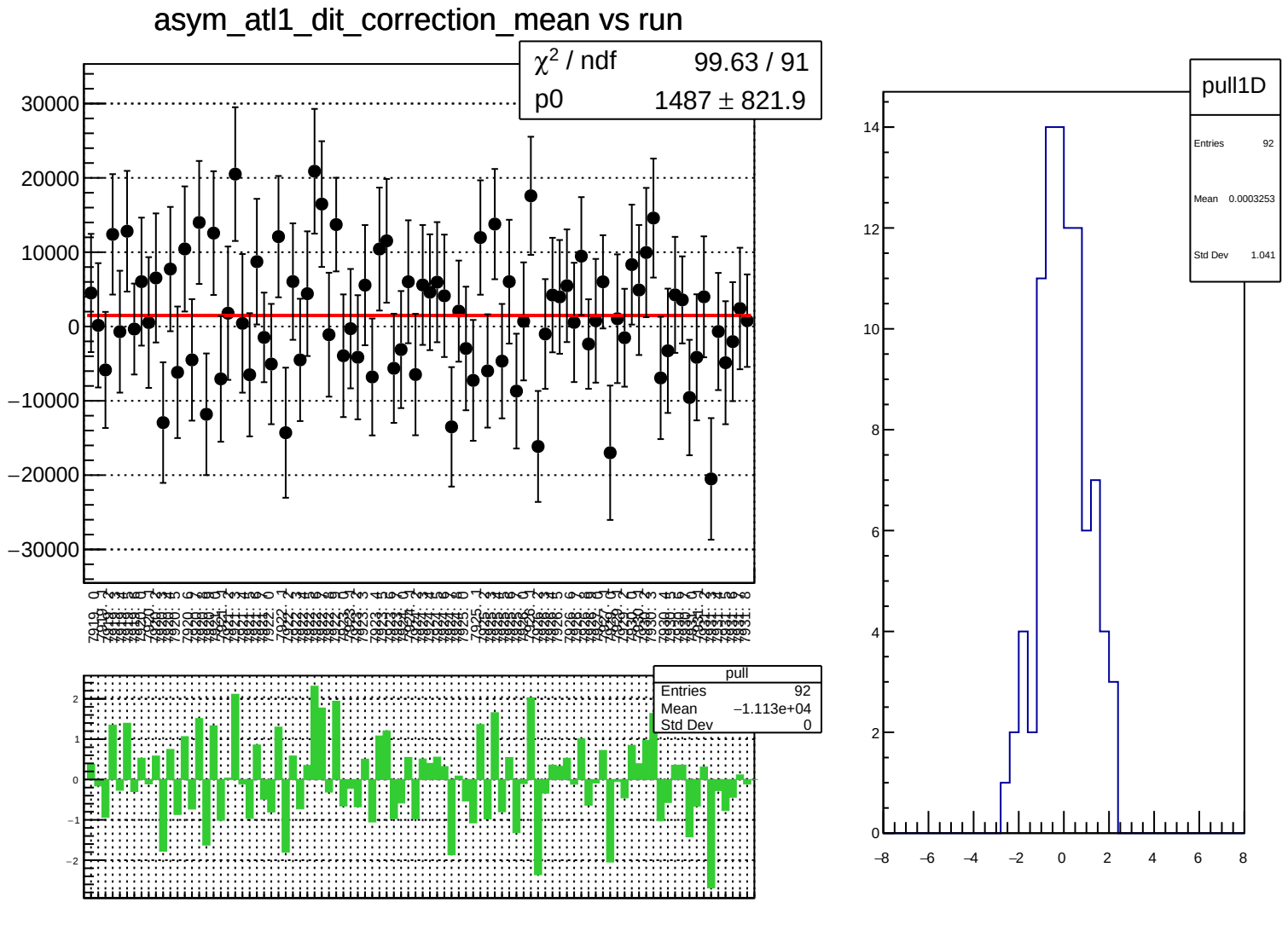

asym_atl1_eigen_cor_correction_mean vs run
χ² / ndf 98.36 / 91
p0 1535 ± 873.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −773.6
Std Dev 0
pull1D
Entries 92
Mean 0.004246
Std Dev 1.034

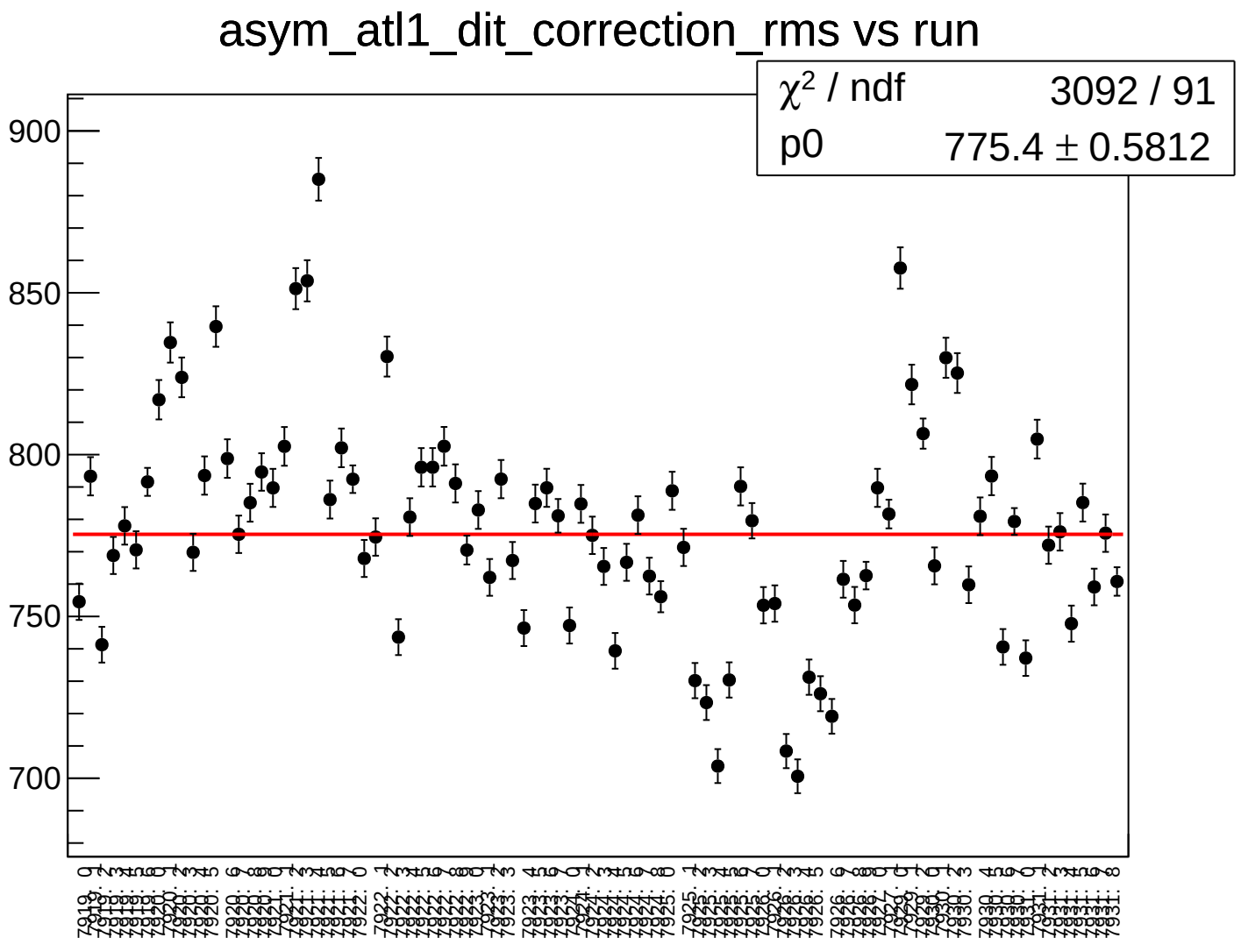

asym_atl1_eigen_cor_correction_rms vs run
χ² / ndf 8519 / 91
p0 823 ± 0.6179
1000
950
900
850
800
750
700

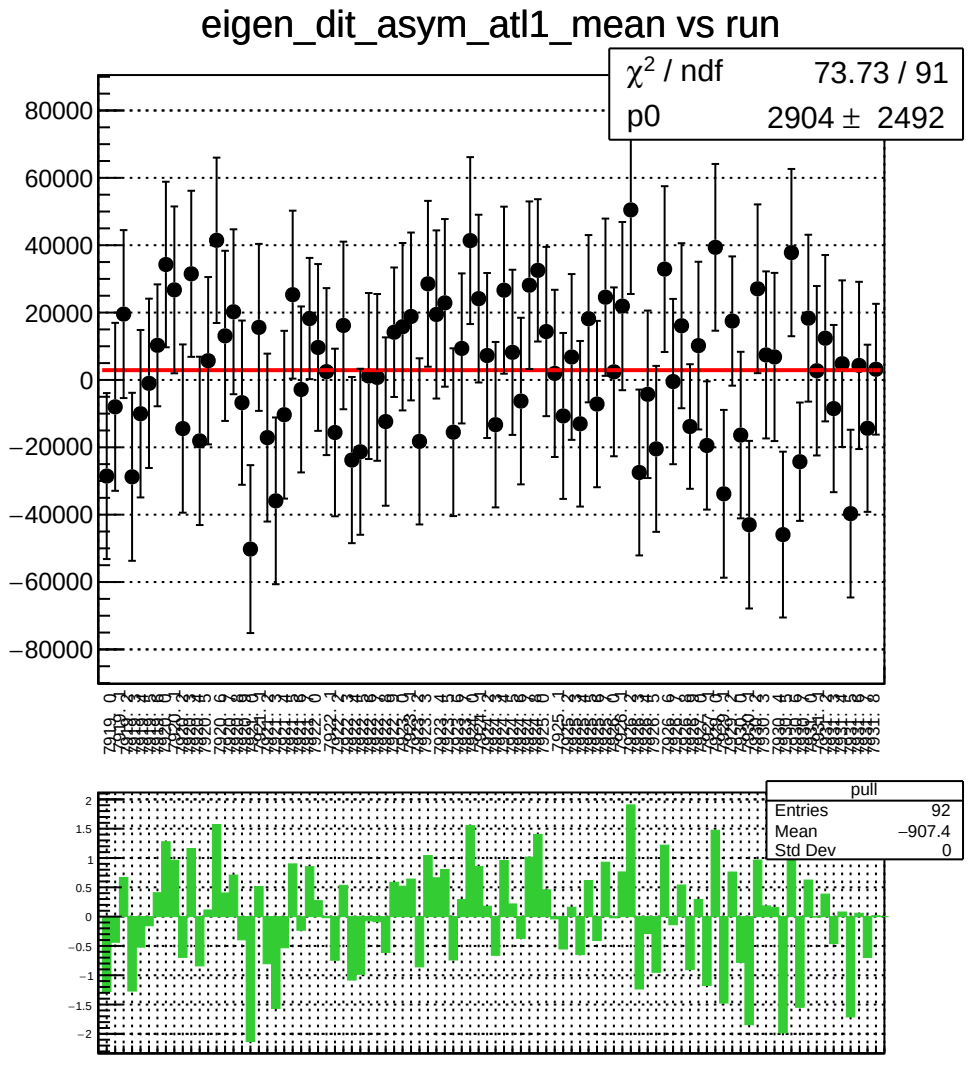

dit_asym_atl1_mean vs run
χ² / ndf 73.73 / 91
p0 2904 ± 2492
pull
Entries 92
Mean −907.4
Std Dev 0

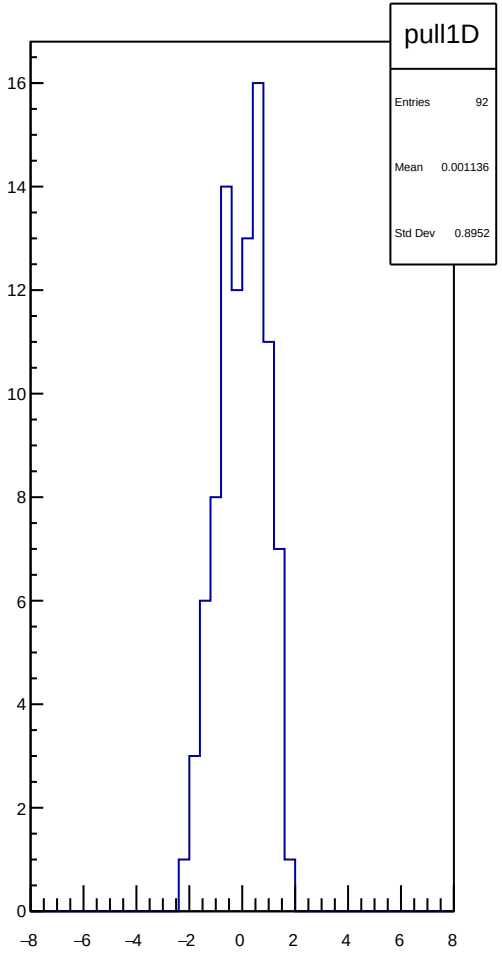

pull1D
Entries 92
Mean 0.001136
Std Dev 0.8952

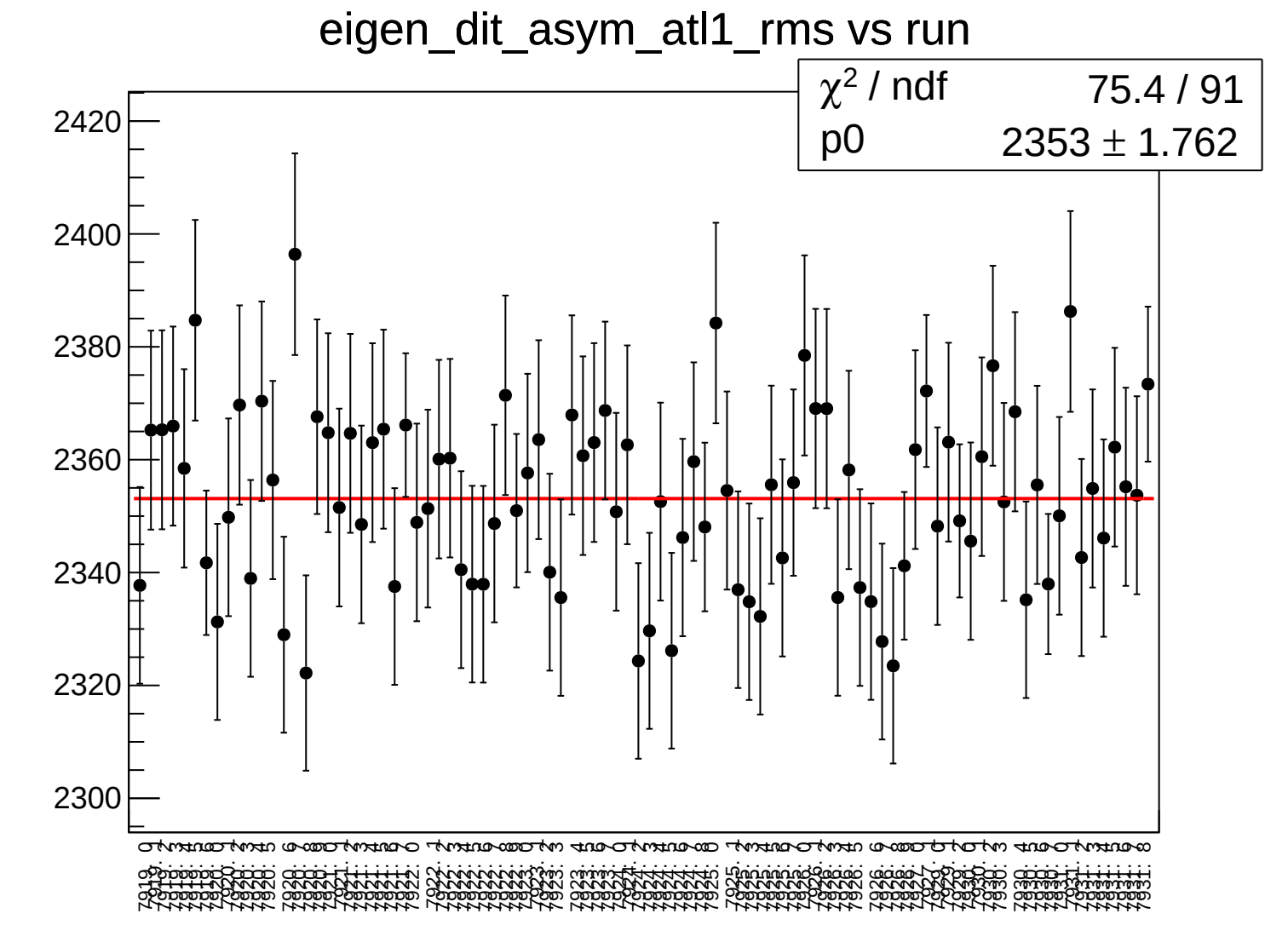

dit_asym_atl1_rms vs run
χ^2 / ndf 75.4 / 91
p0 2353 ± 1.762
2420
2400
2380
2360
2340
2320
2300

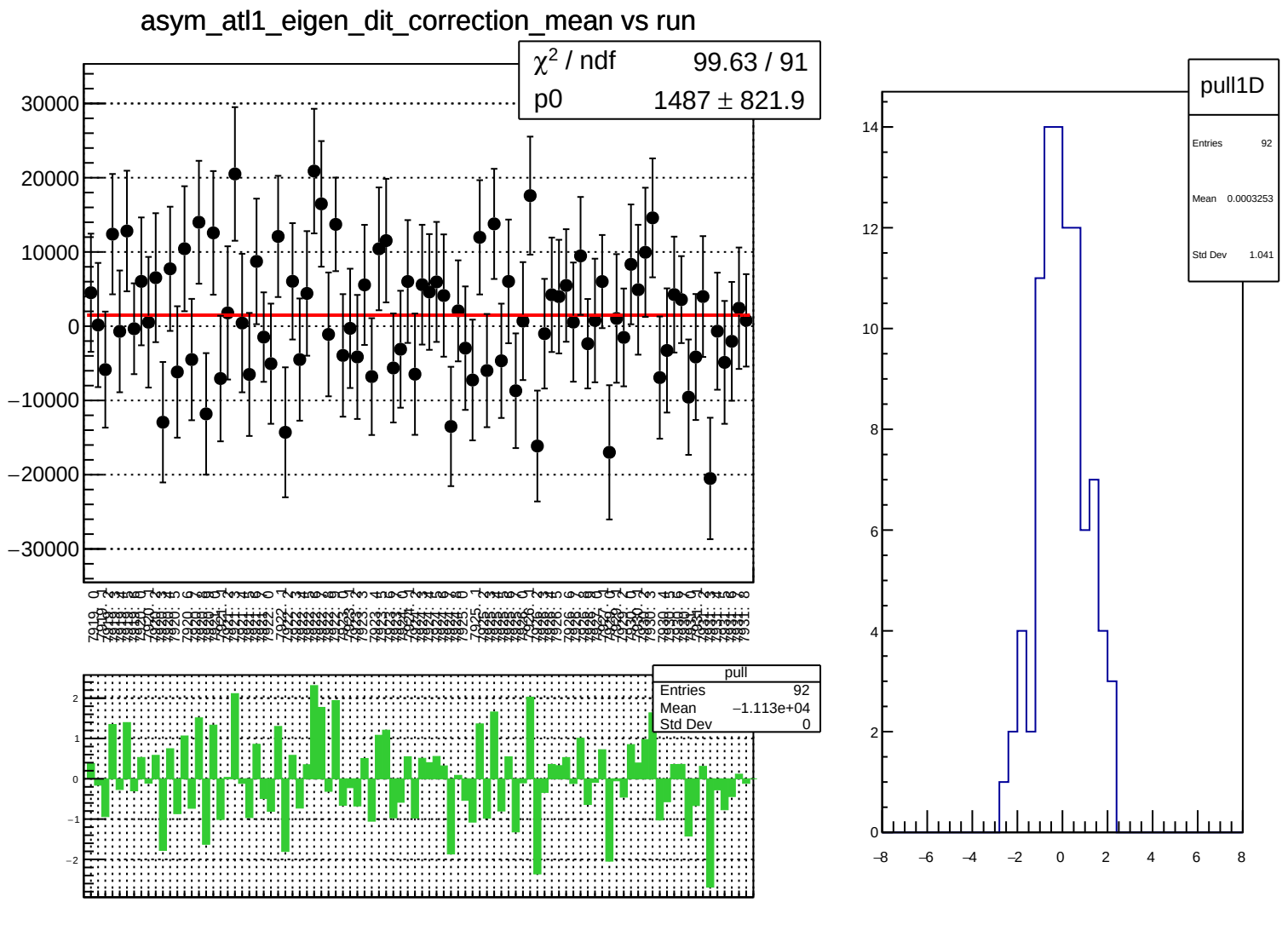

asym_atl1_dit_correction_mean vs run
χ² / ndf 99.63 / 91
p0 1487 ± 821.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −1.113e+04
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.0003253
Std Dev 1.041
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

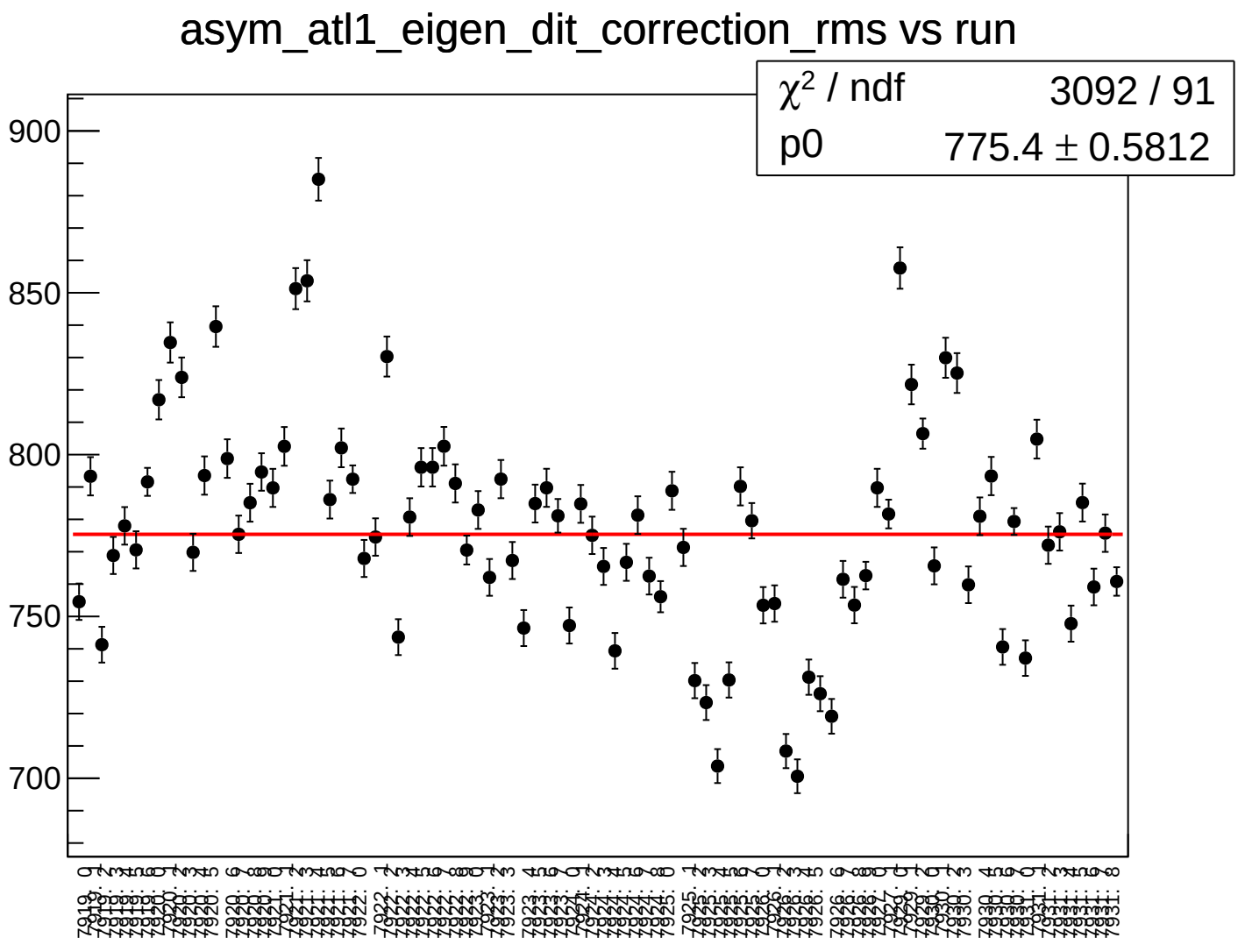

asym_atl1_dit_correction_rms vs run
χ² / ndf 3092 / 91
p0 775.4 ± 0.5812
900
850
800
750
700

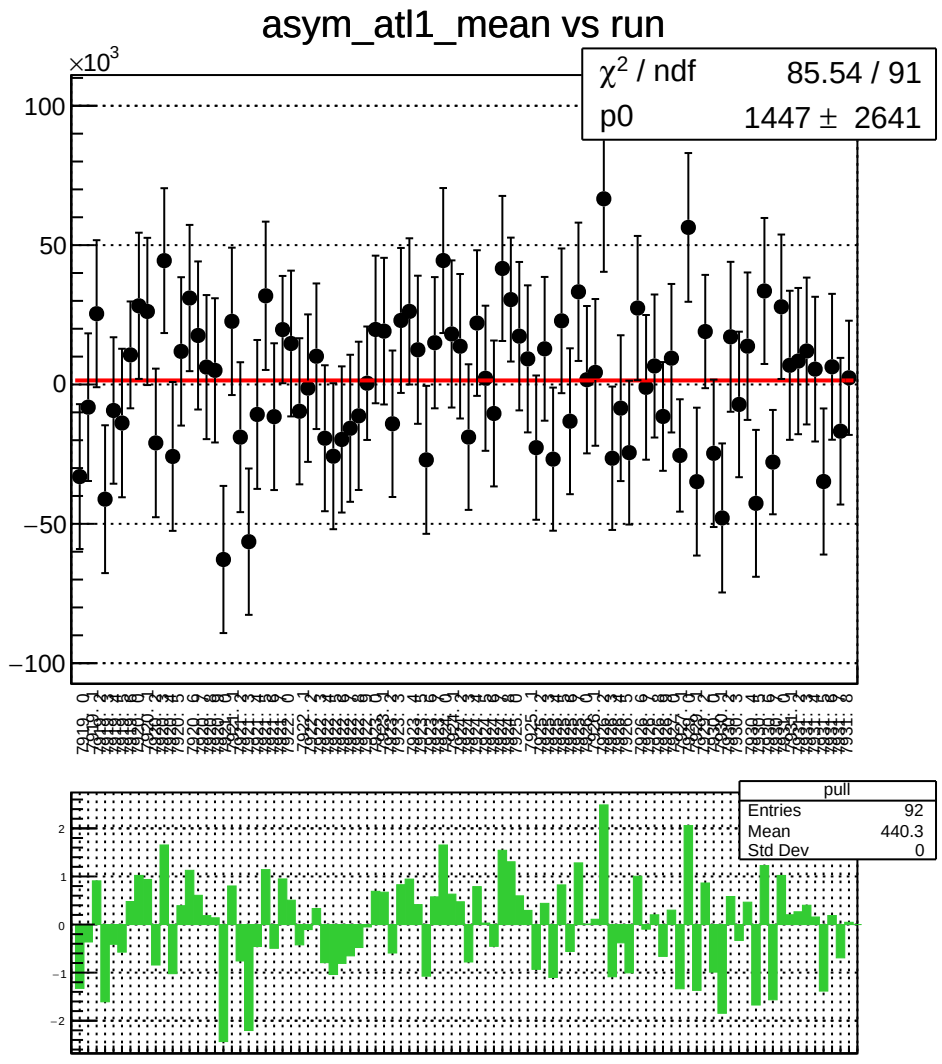

eigen_dit_asym_atl1_mean vs run
χ² / ndf 73.73 / 91
p0 2904 ± 2492
pull
Entries 92
Mean −907.4
Std Dev 0

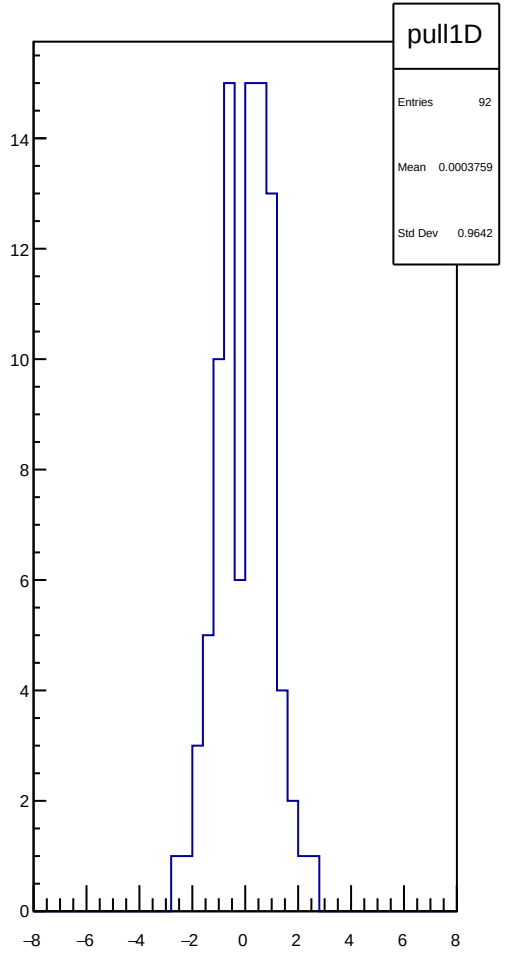

pull1D
Entries 92
Mean 0.001136
Std Dev 0.8952

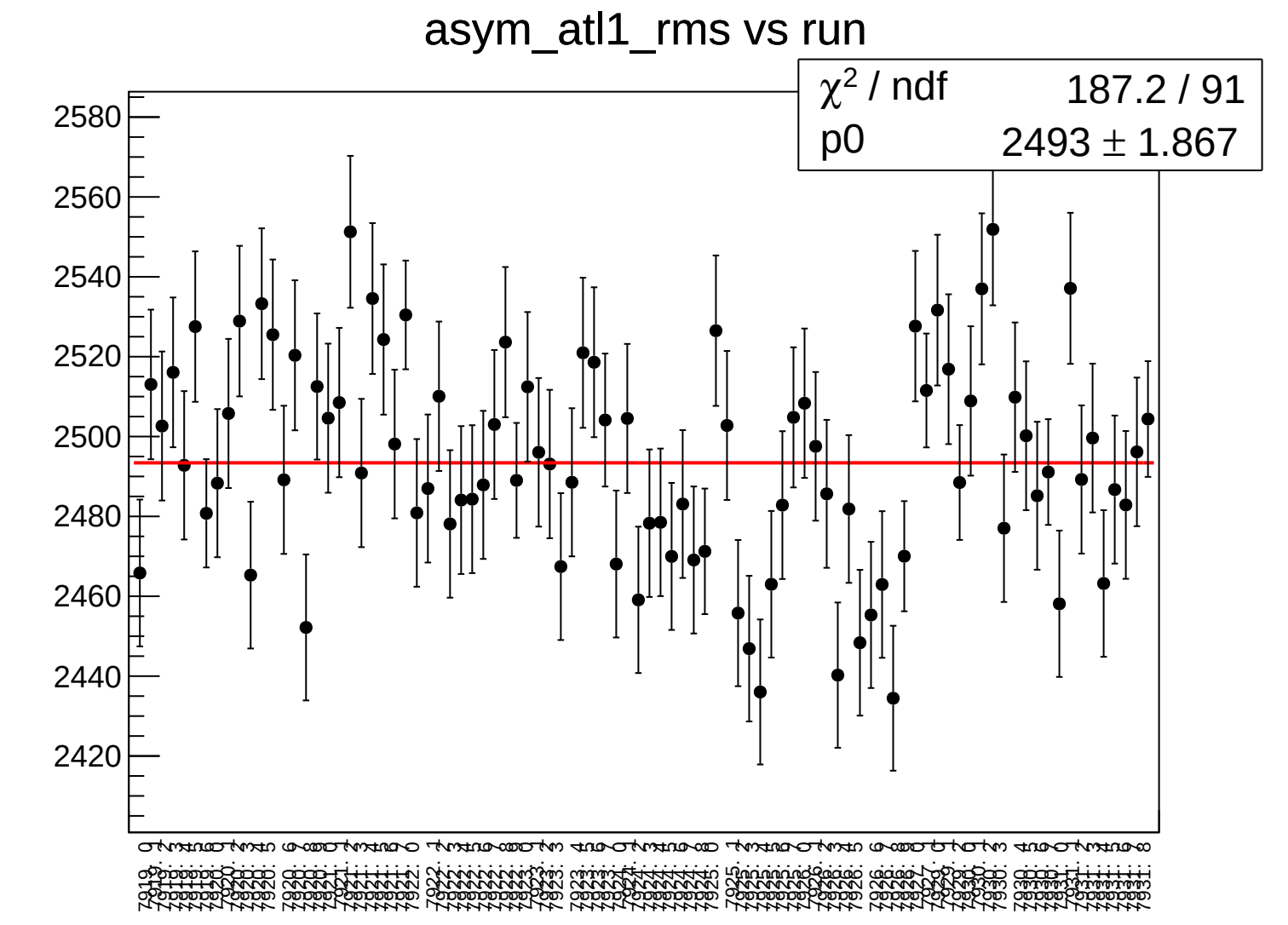

eigen_dit_asym_atl1_rms vs run
χ^2 / ndf 75.4 / 91
p0 2353 ± 1.762
2420
2400
2380
2360
2340
2320
2300

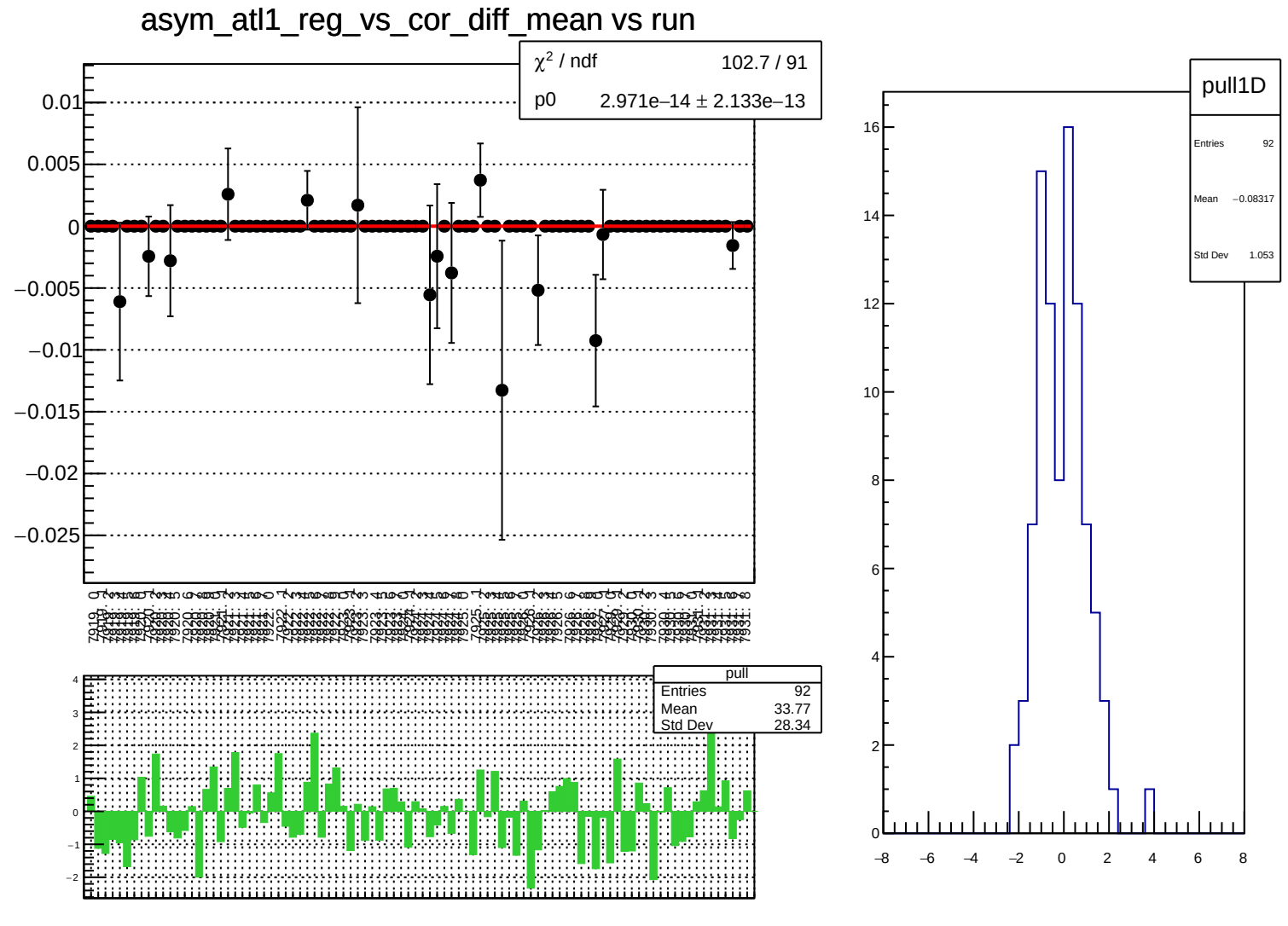

asym_atl1_eigen_dit_correction_mean vs run
χ² / ndf 99.63 / 91
p0 1487 ± 821.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −1.113e+04
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.0003253
Std Dev 1.041
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

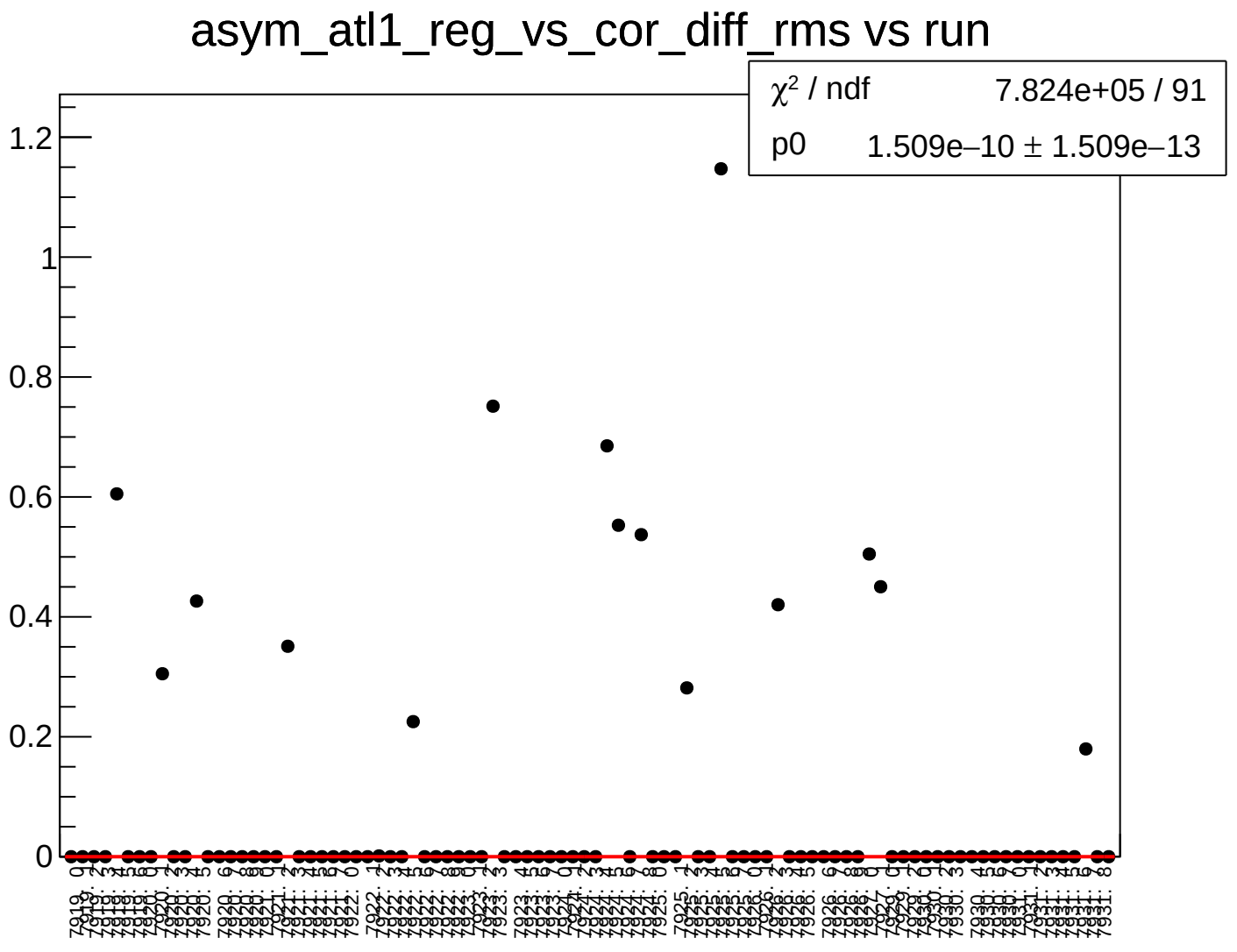

asym_atl1_eigen_dit_correction_rms vs run
χ² / ndf 3092 / 91
p0 775.4 ± 0.5812
900
850
800
750
700

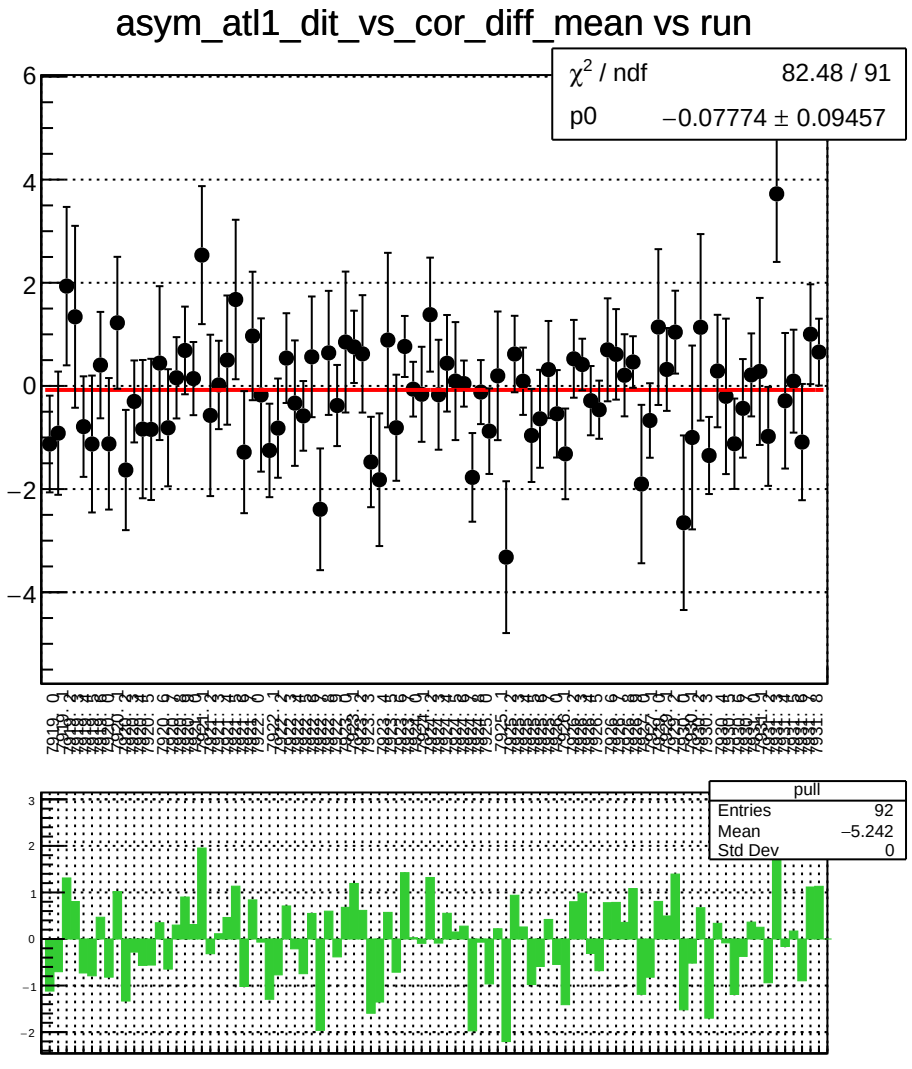

asym_atl1_mean vs run
×10^3
χ² / ndf 85.54 / 91
p0 1447 ± 2641
100
50
0
−50
−100
pull
Entries 92
Mean 440.3
Std Dev 0
2
1
0
−1
−2

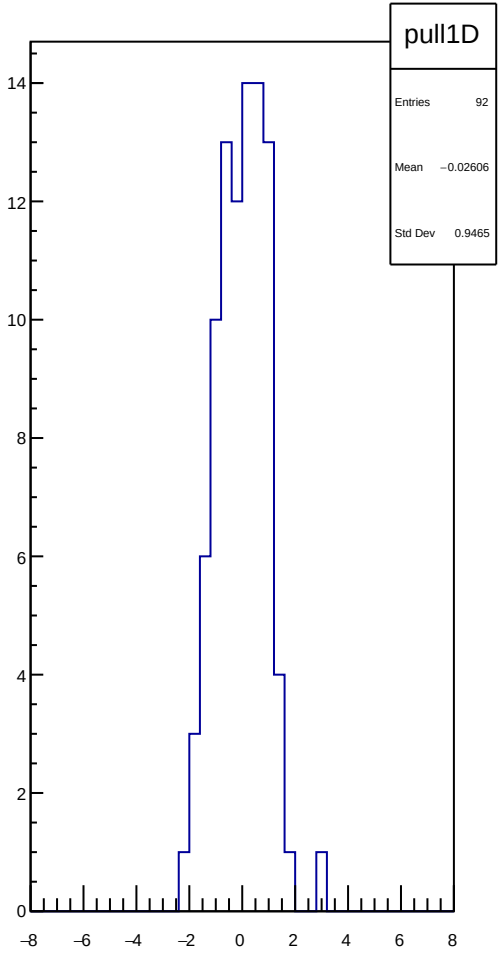

pull1D
Entries 92
Mean 0.0003759
Std Dev 0.9642
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

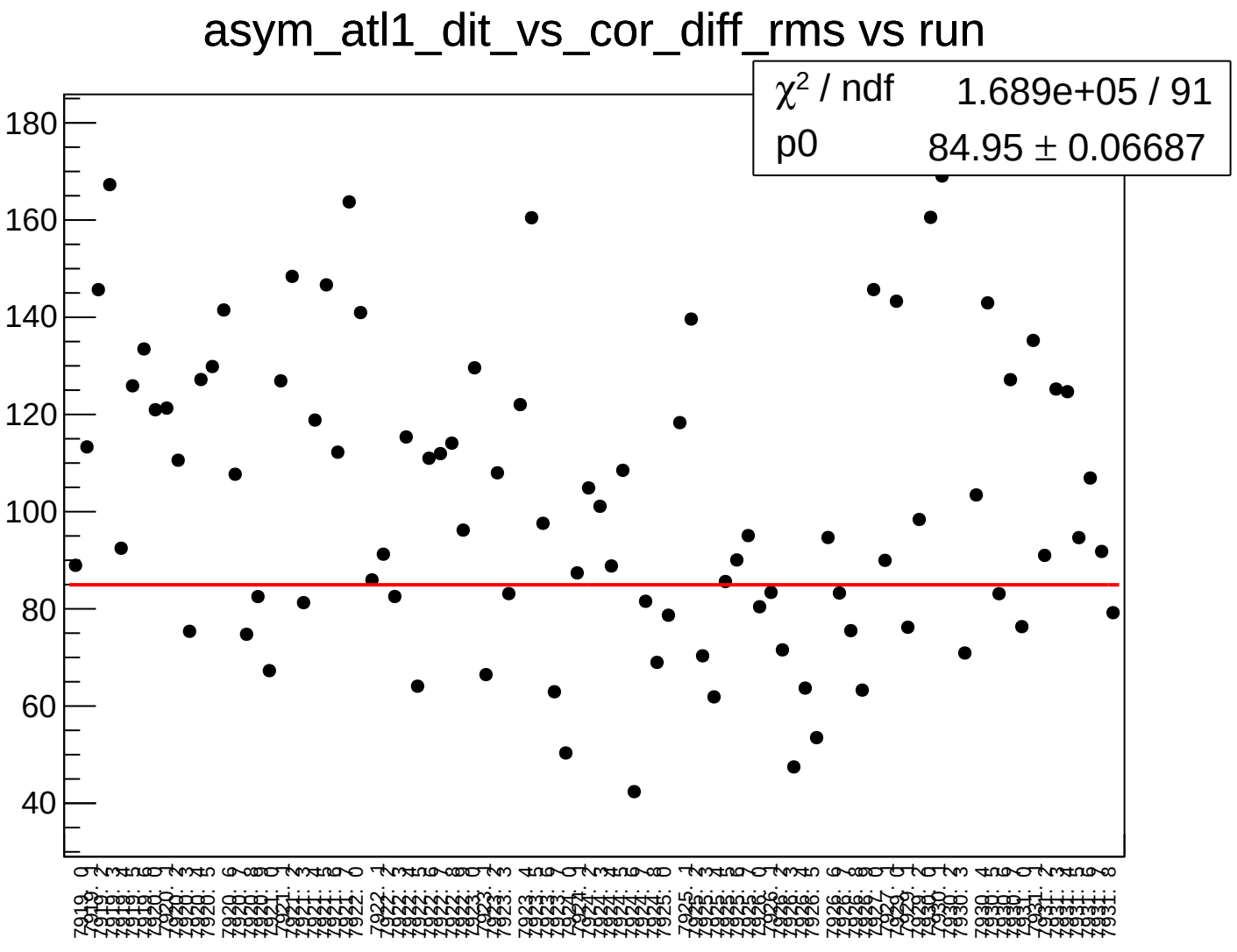

asym_atl1_rms vs run
χ^2 / ndf 187.2 / 91
p0 2493 ± 1.867
2580
2560
2540
2520
2500
2480
2460
2440
2420

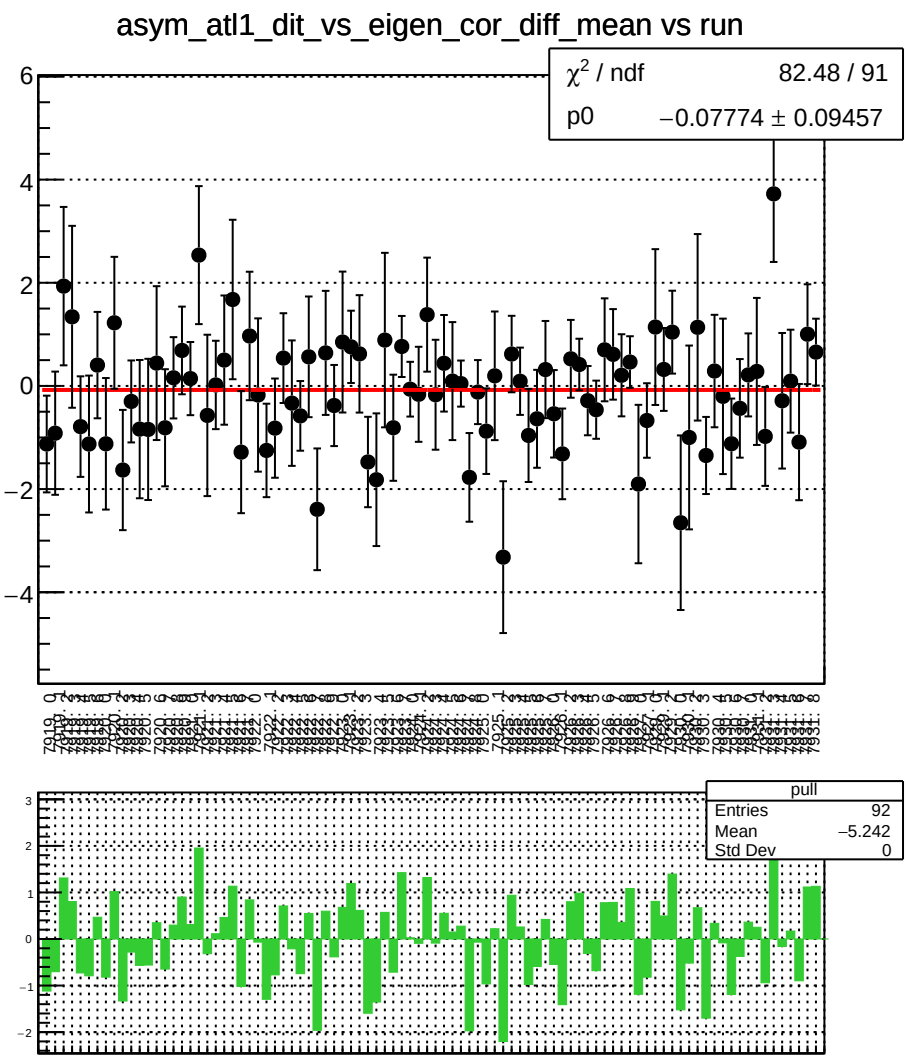

asym_atl1_reg_vs_cor_diff_mean vs run
χ² / ndf 102.7 / 91
p0 2.971e−14 ± 2.133e−13
pull
Entries 92
Mean 33.77
Std Dev 28.34
pull1D
Entries 92
Mean −0.08317
Std Dev 1.053

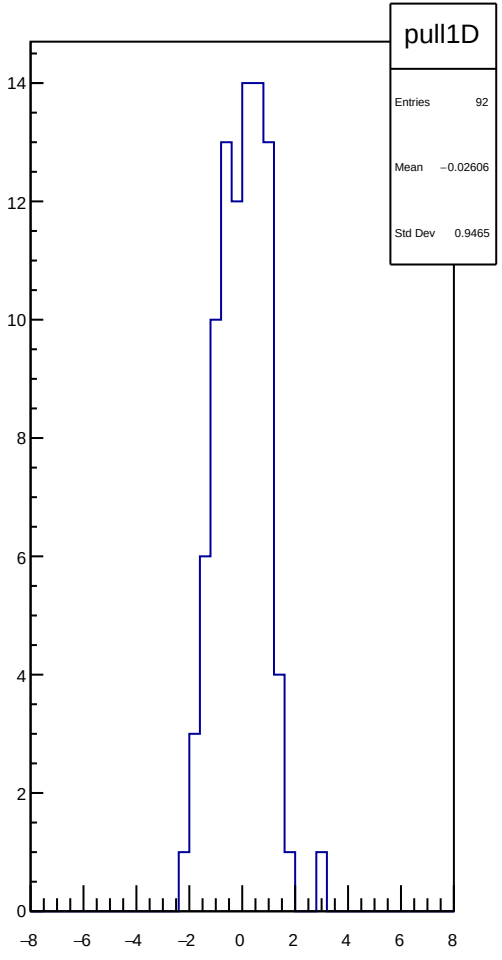

asym_atl1_reg_vs_cor_diff_rms vs run
χ² / ndf 7.824e+05 / 91
p0 1.509e−10 ± 1.509e−13
1.2
1
0.8
0.6
0.4
0.2
0

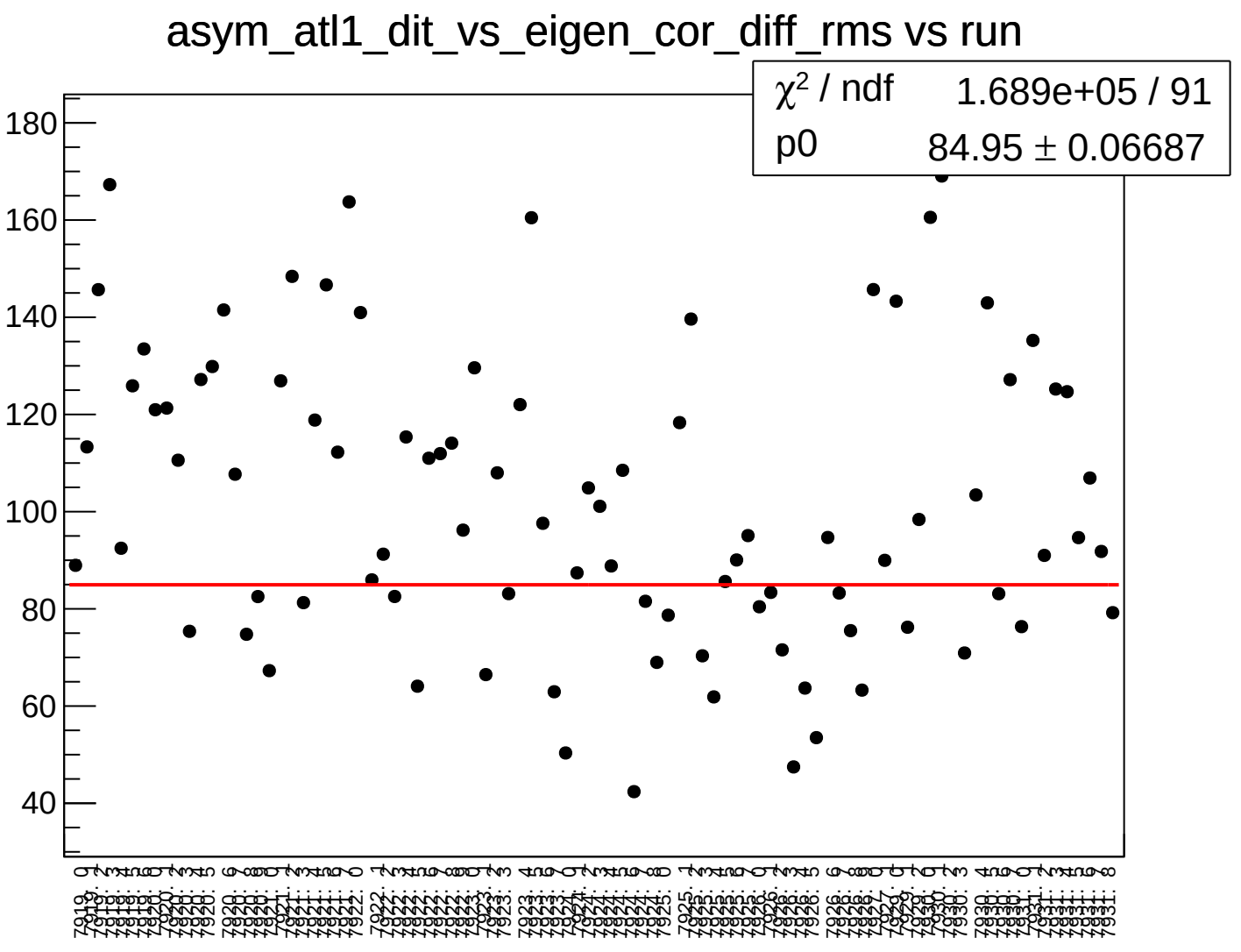

asym_atl1_dit_vs_cor_diff_mean vs run
χ² / ndf 82.48 / 91
p0 −0.07774 ± 0.09457
pull
Entries 92
Mean −5.242
Std Dev 0

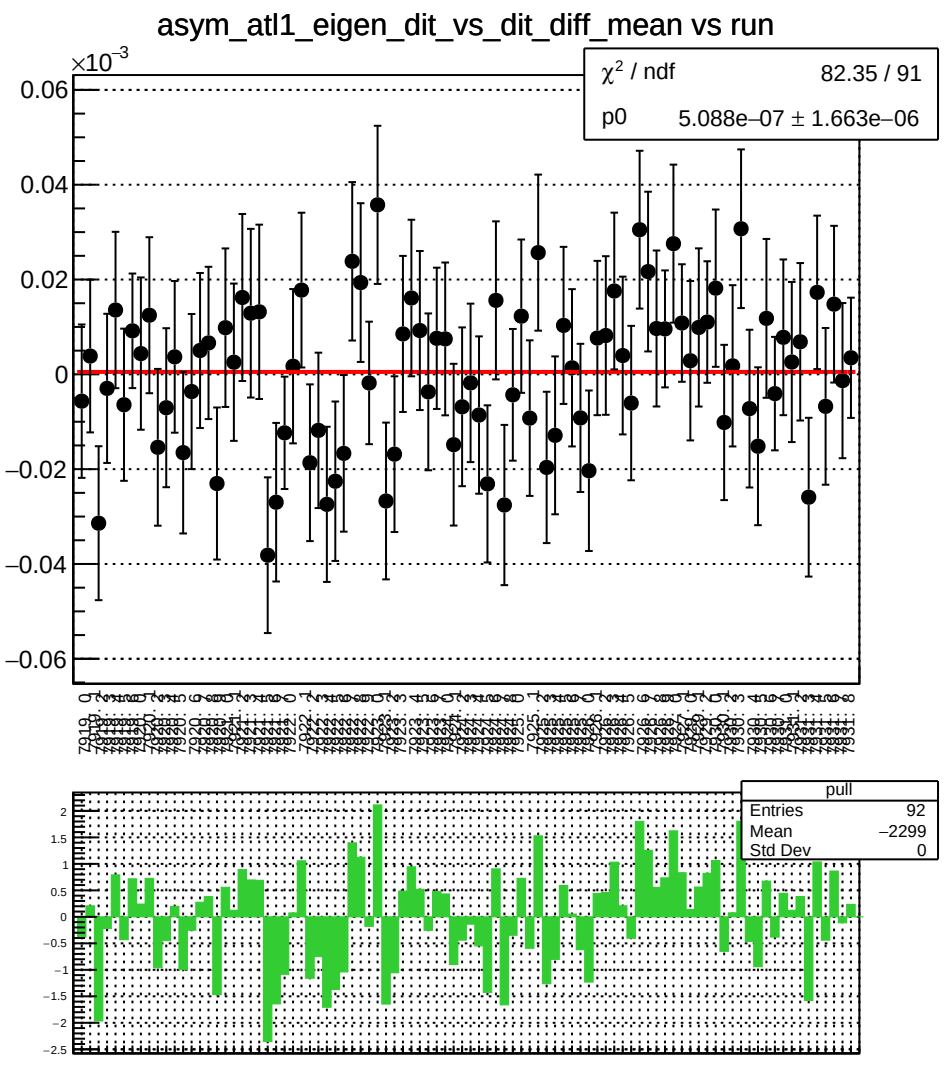

pull1D
Entries 92
Mean −0.02606
Std Dev 0.9465

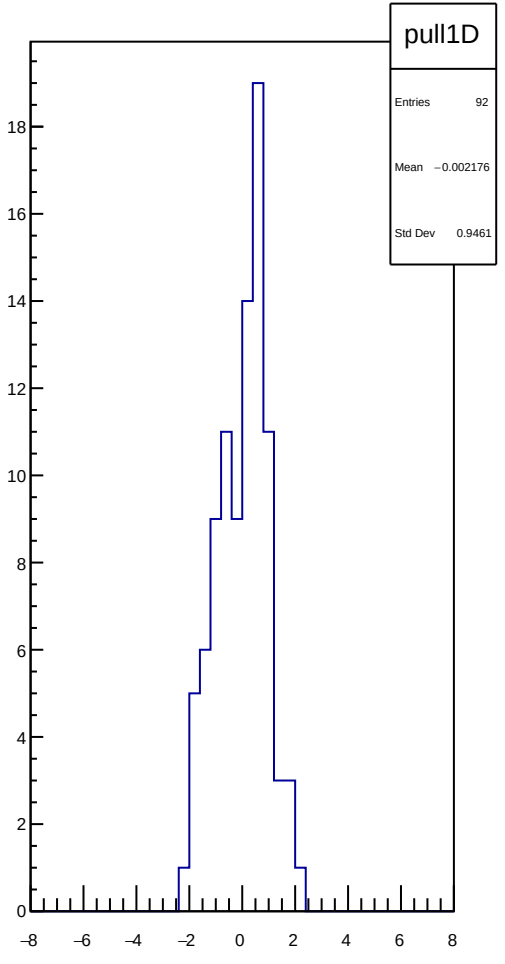

asym_atl1_dit_vs_cor_diff_rms vs run
χ² / ndf 1.689e+05 / 91
p0 84.95 ± 0.06687
180
160
140
120
100
80
60
40

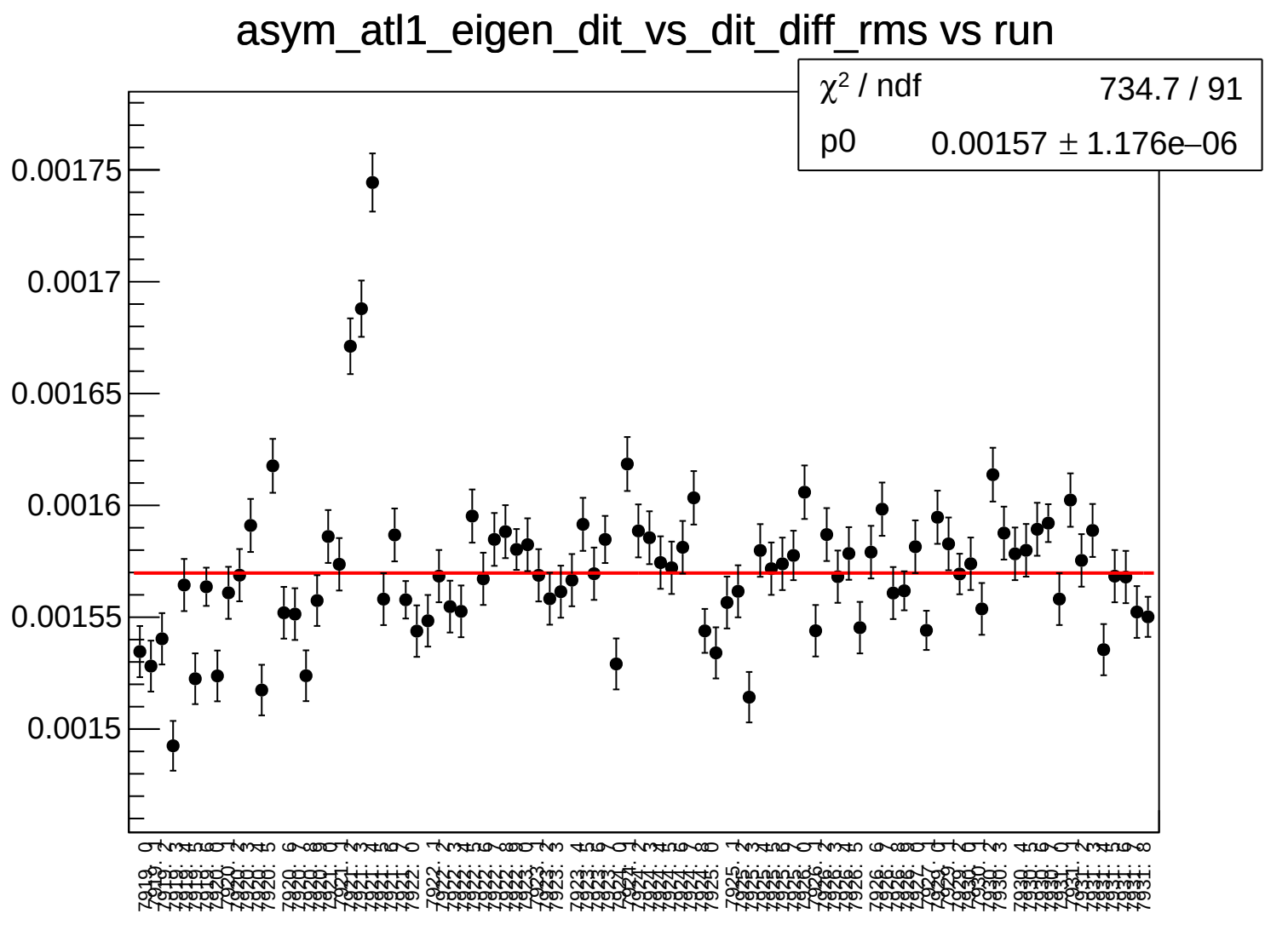

asym_atl1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.48 / 91
p0 −0.07774 ± 0.09457
pull
Entries 92
Mean −5.242
Std Dev 0

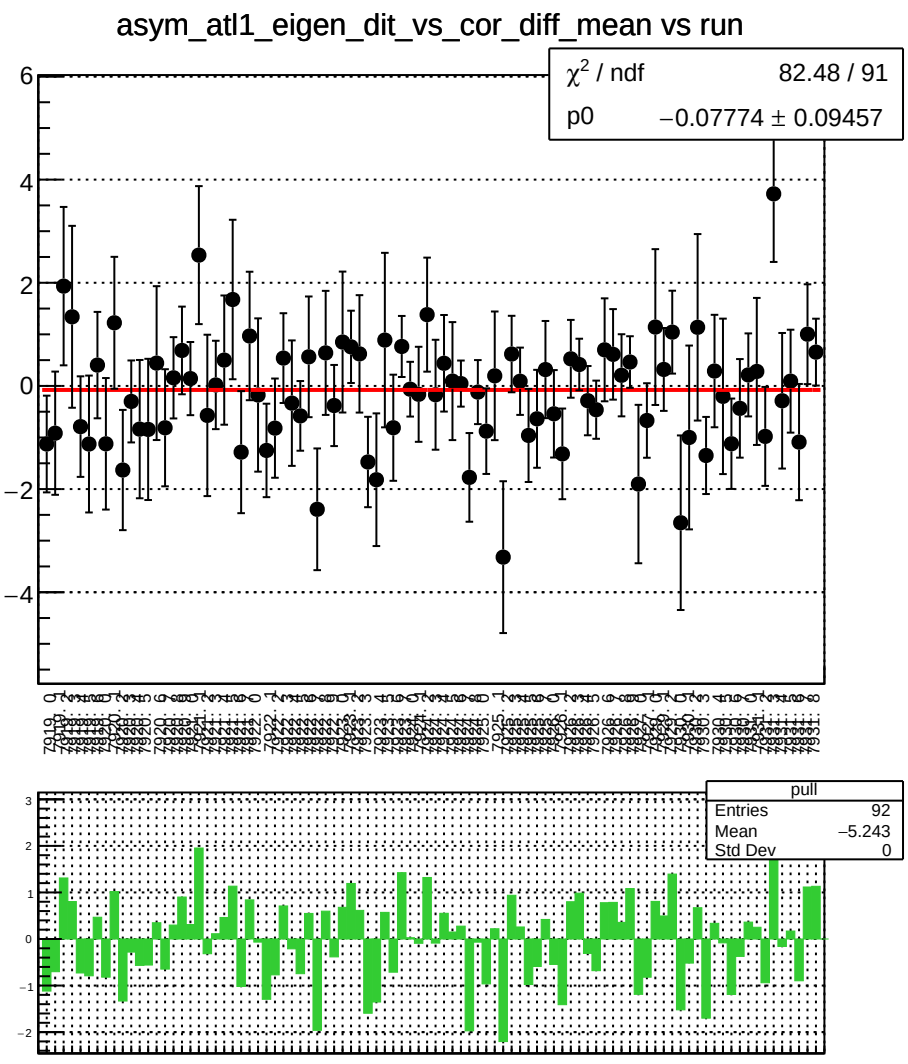

pull1D
Entries 92
Mean −0.02606
Std Dev 0.9465

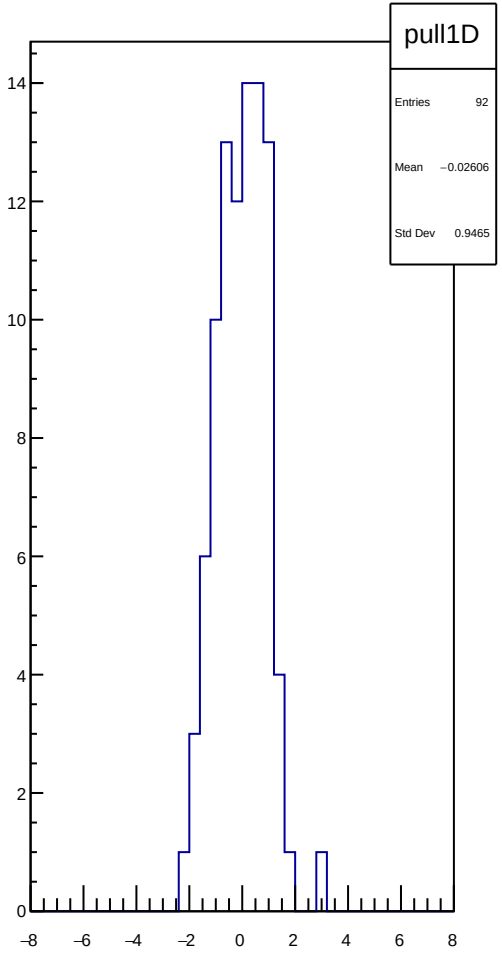

asym_atl1_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.689e+05 / 91
p0 84.95 ± 0.06687
180
160
140
120
100
80
60
40

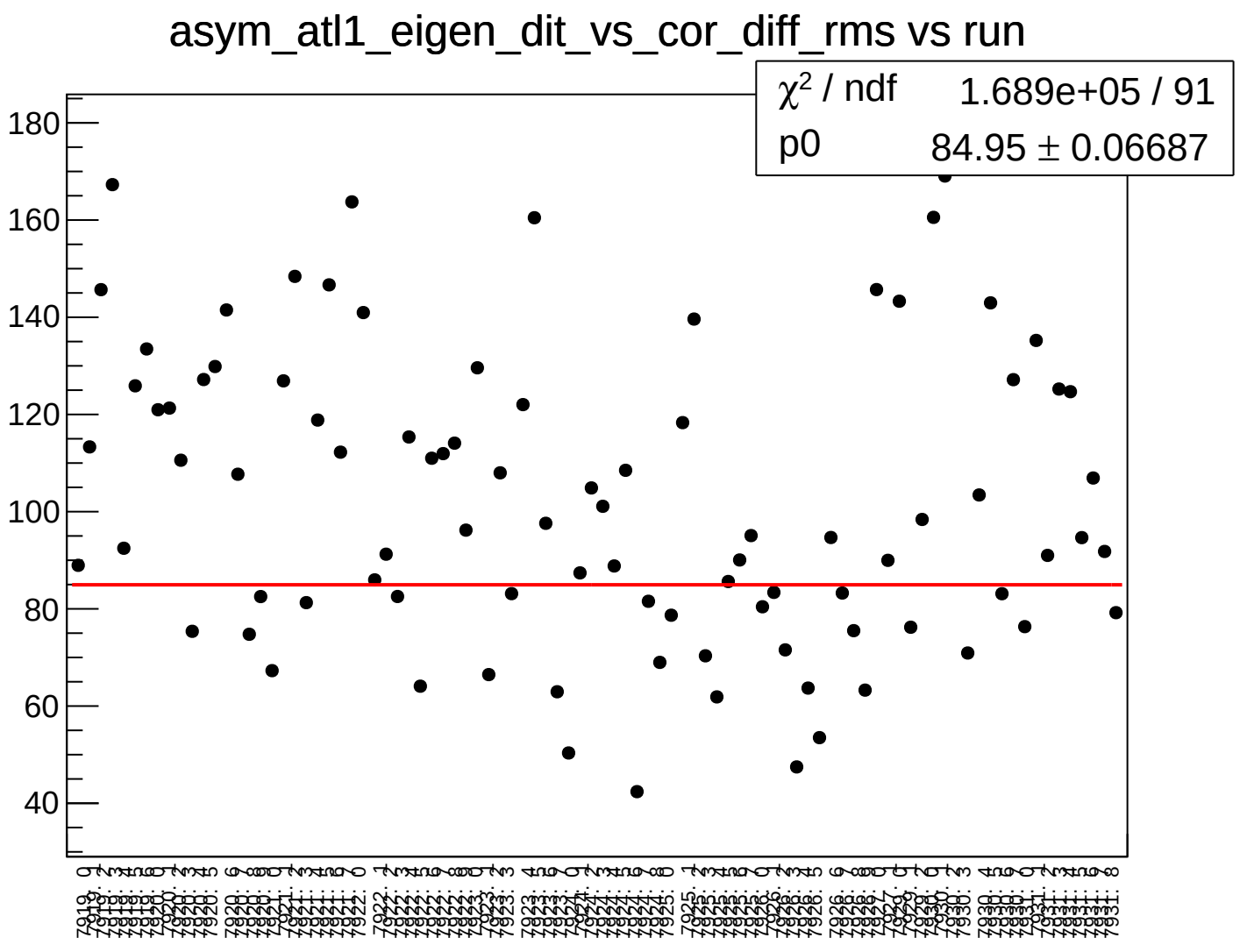

asym_atl1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 82.35 / 91
p0 5.088e−07 ± 1.663e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 92
Mean −2299
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

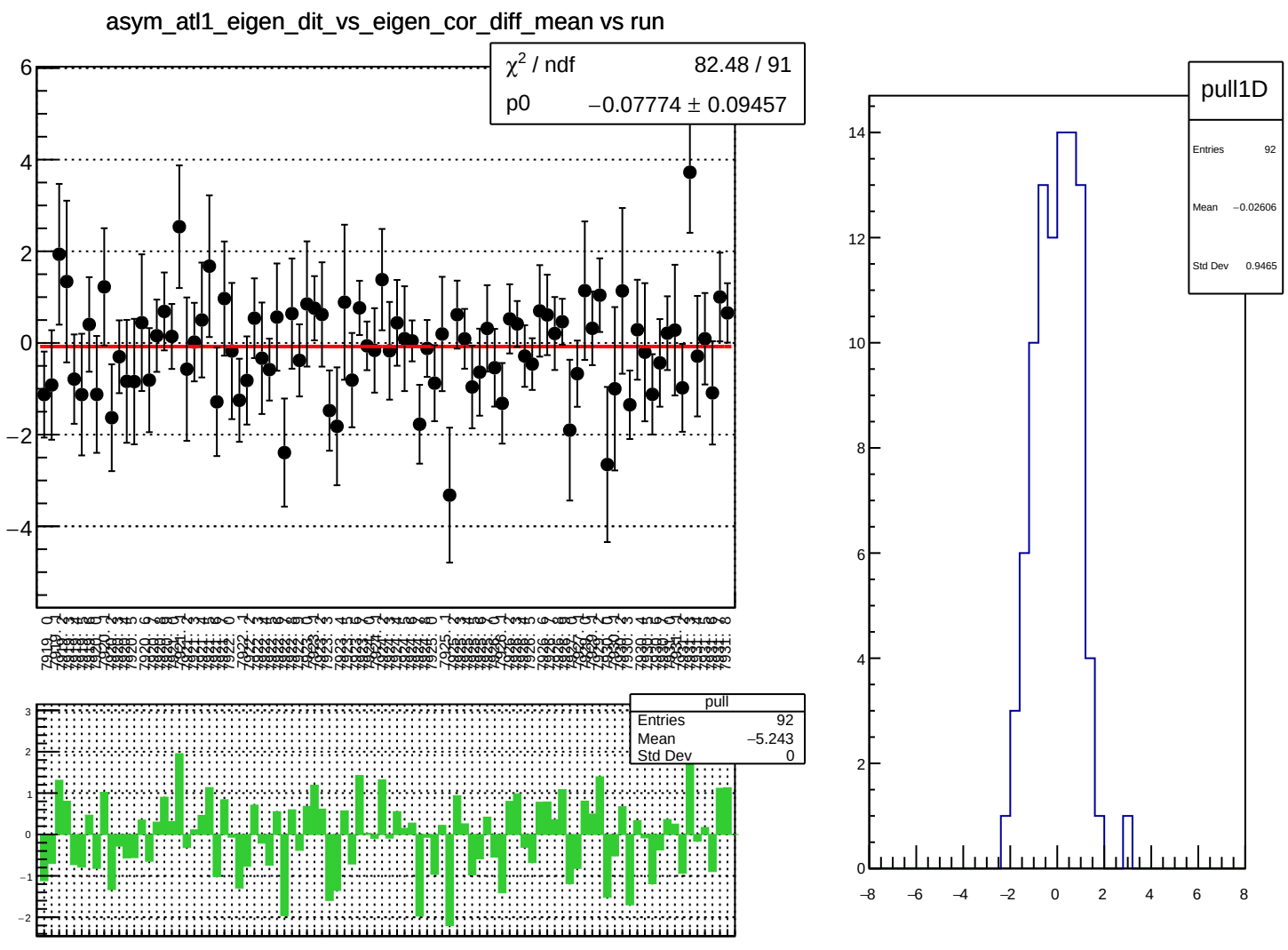

pull1D
Entries 92
Mean −0.002176
Std Dev 0.9461
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

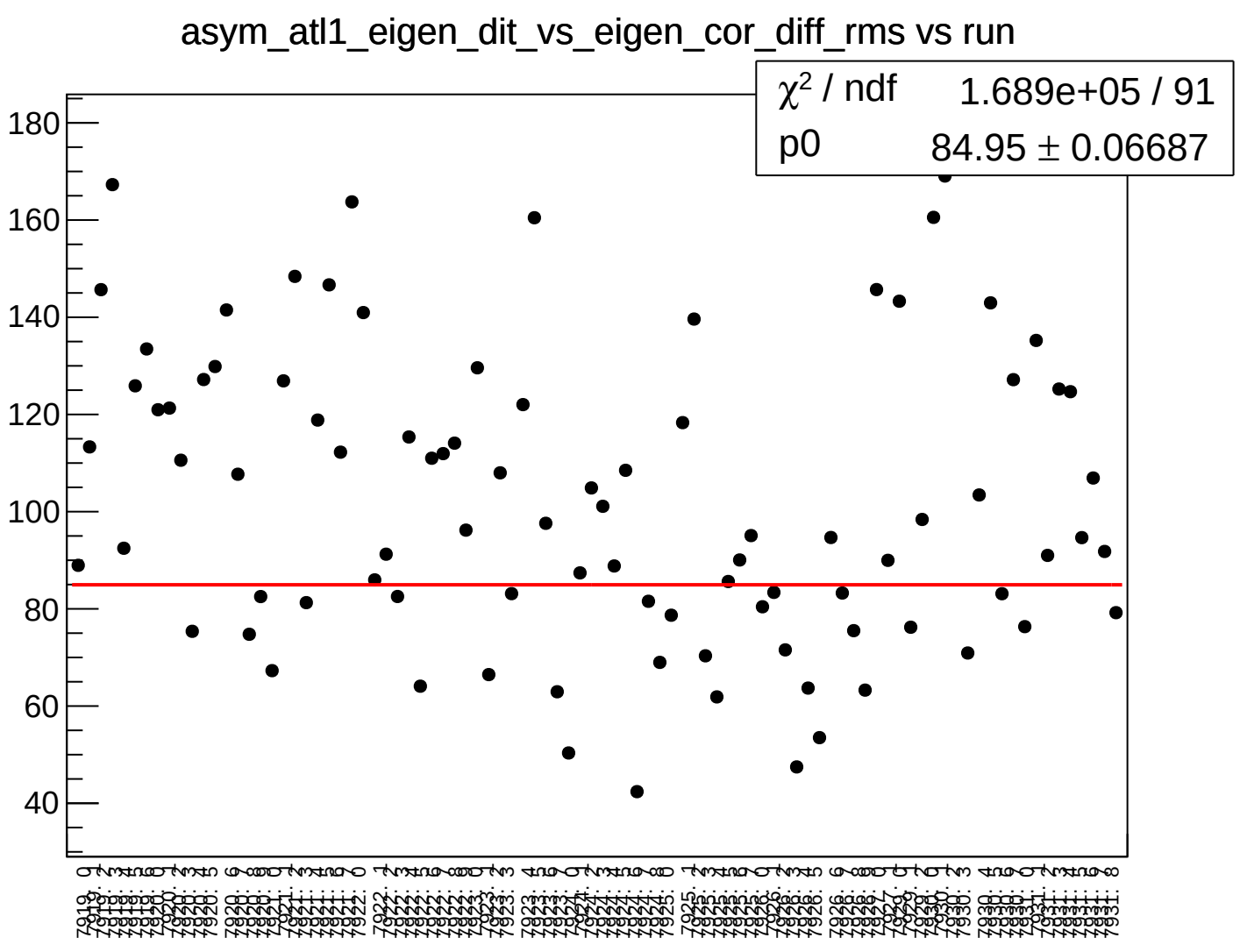

asym_atl1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 734.7 / 91
p0 0.00157 ± 1.176e−06
0.00175
0.0017
0.00165
0.0016
0.00155
0.0015

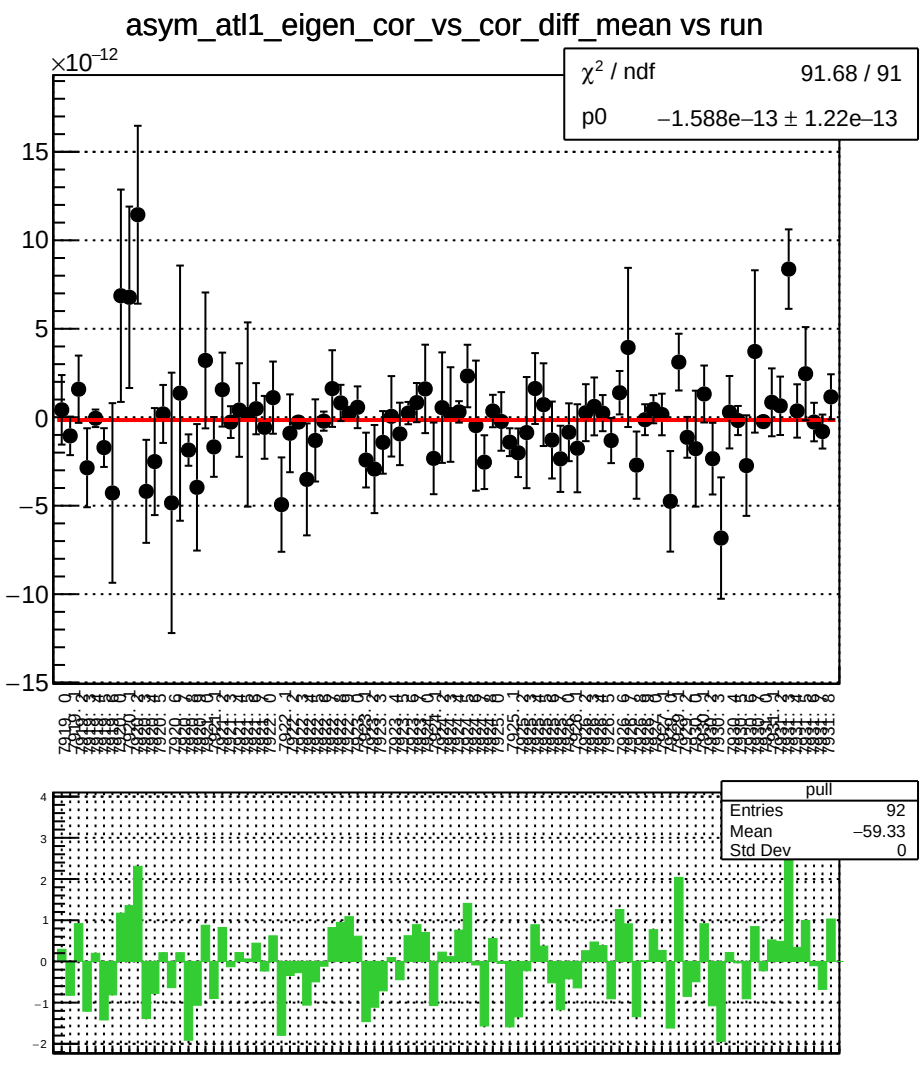

asym_atl1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.48 / 91
p0 −0.07774 ± 0.09457
pull
Entries 92
Mean −5.243
Std Dev 0

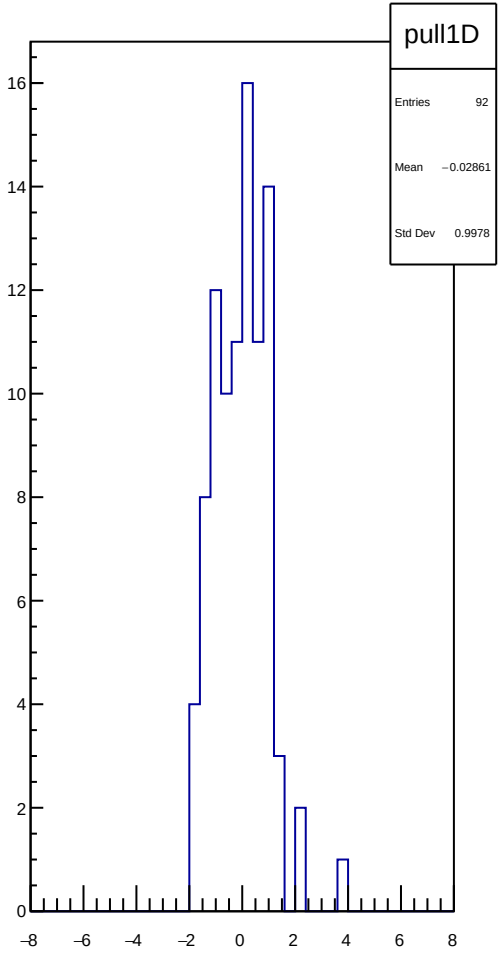

pull1D
Entries 92
Mean −0.02606
Std Dev 0.9465

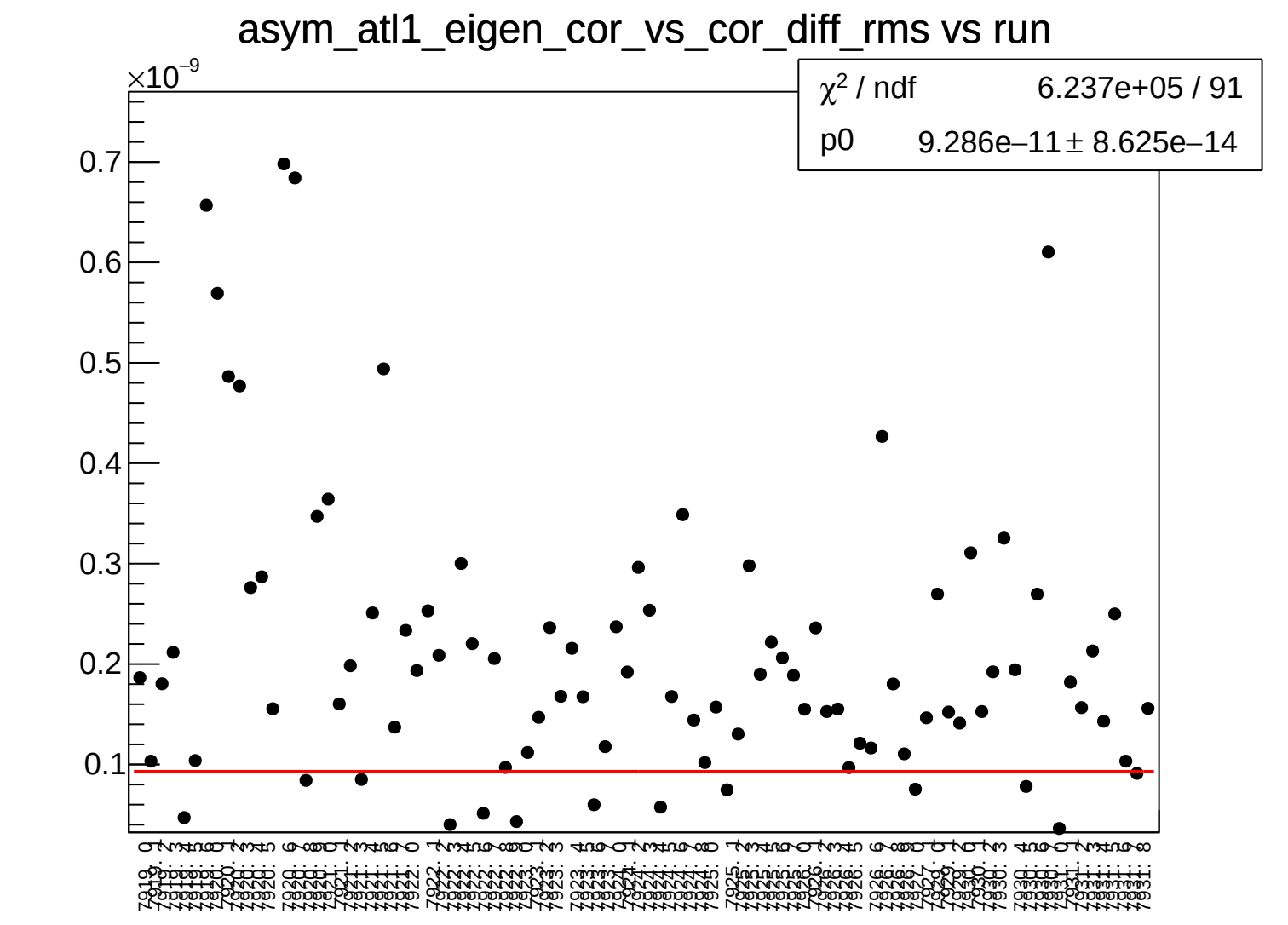

asym_atl1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.689e+05 / 91
p0 84.95 ± 0.06687
180
160
140
120
100
80
60
40

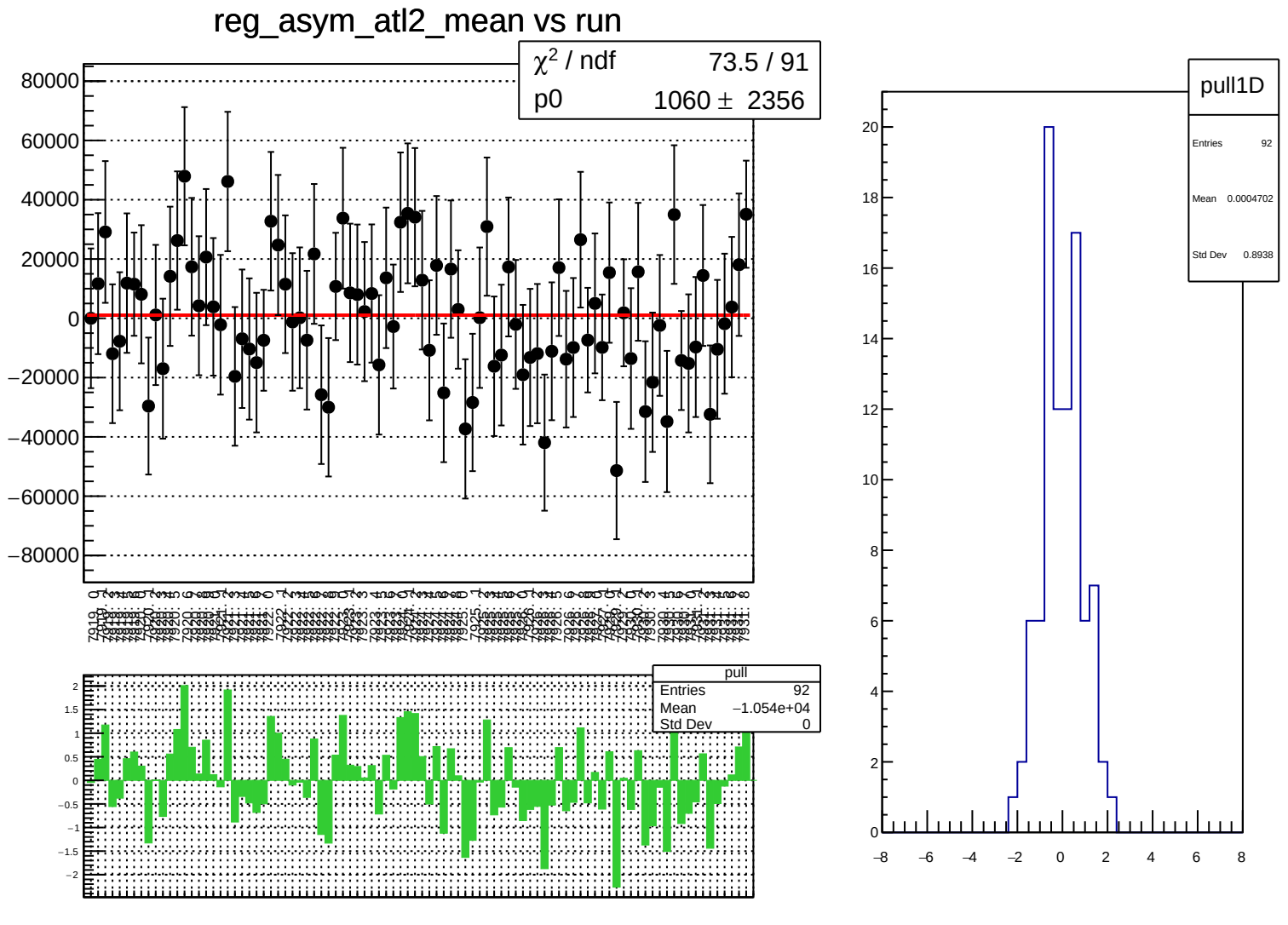

asym_atl1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.48 / 91
p0 −0.07774 ± 0.09457
pull
Entries 92
Mean −5.243
Std Dev 0
pull1D
Entries 92
Mean −0.02606
Std Dev 0.9465

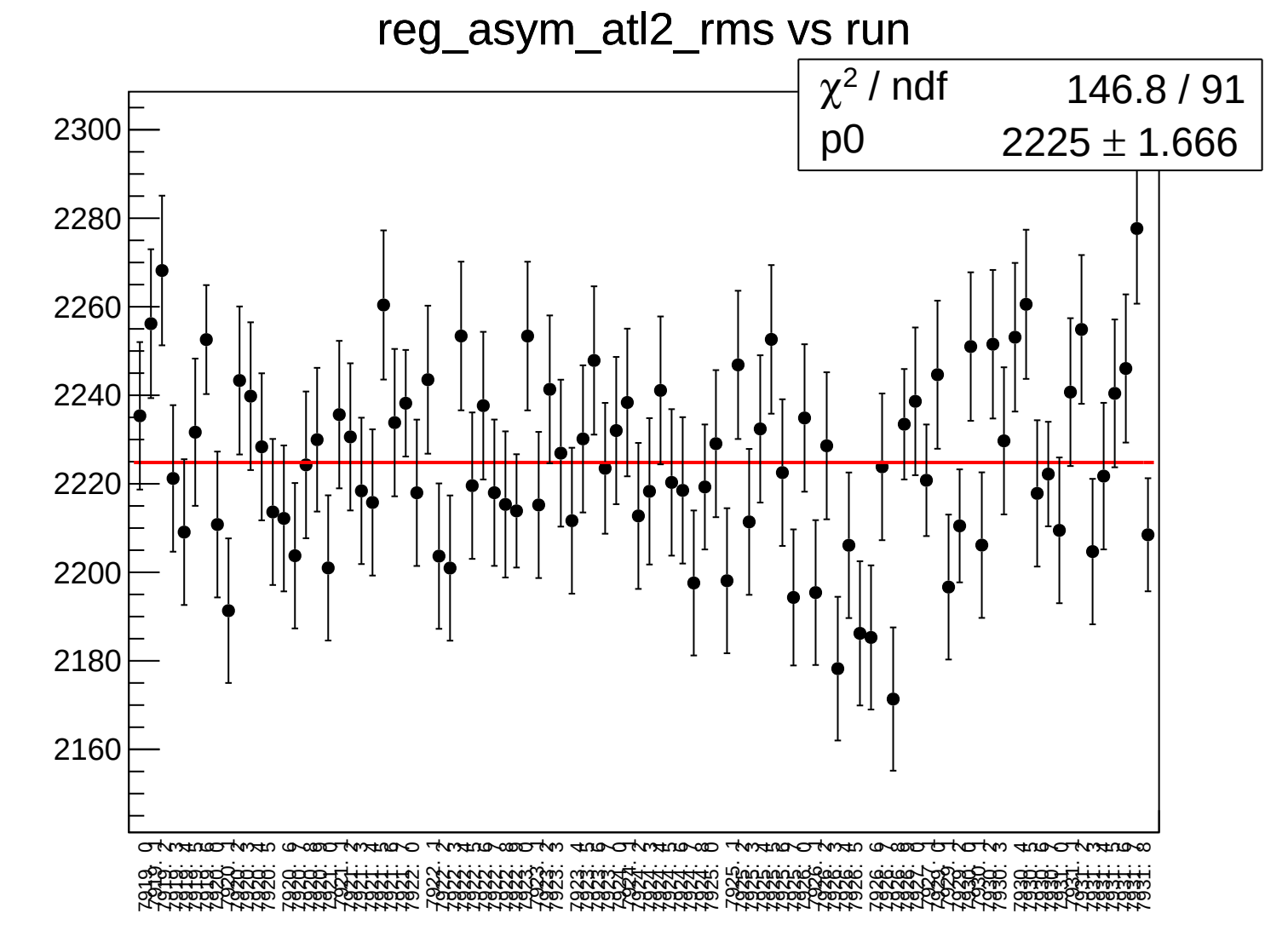

asym_atl1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.689e+05 / 91
p0 84.95 ± 0.06687
180
160
140
120
100
80
60
40

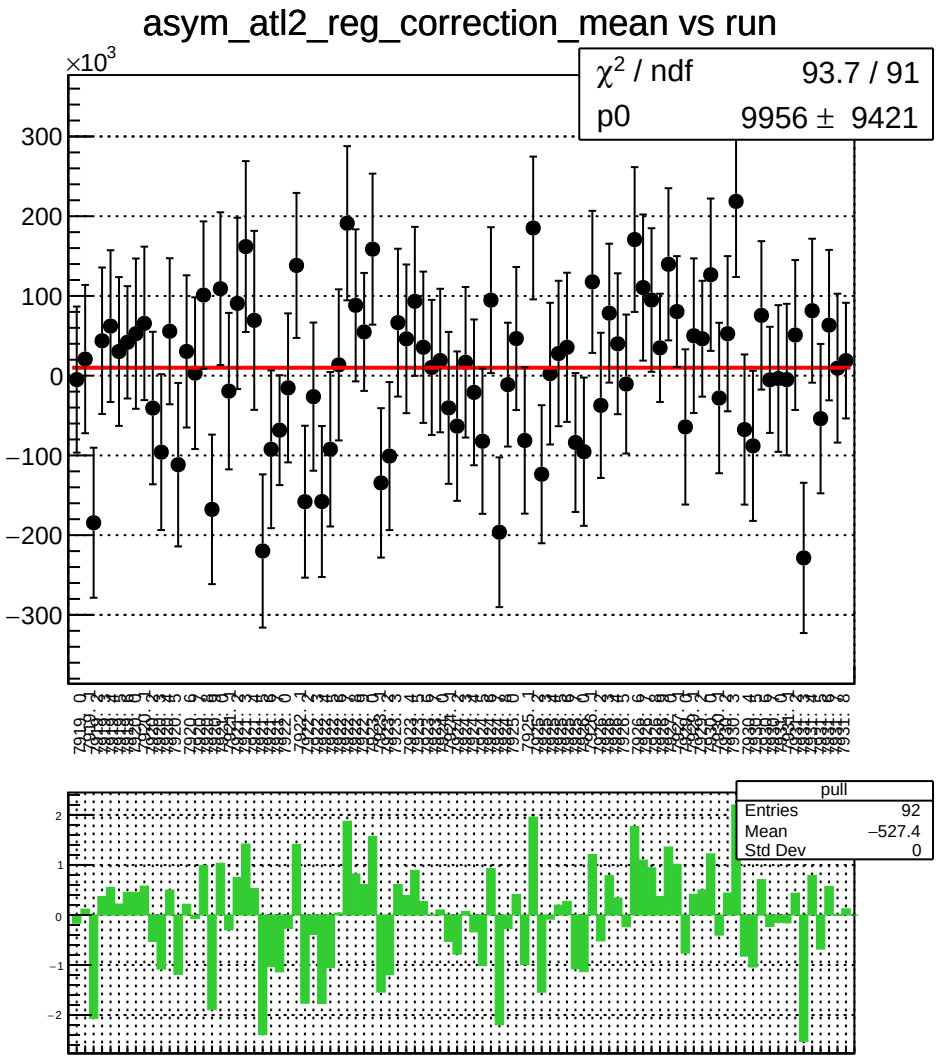

asym_atl1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.68 / 91
p0 −1.588e−13 ± 1.22e−13
pull
Entries 92
Mean −59.33
Std Dev 0

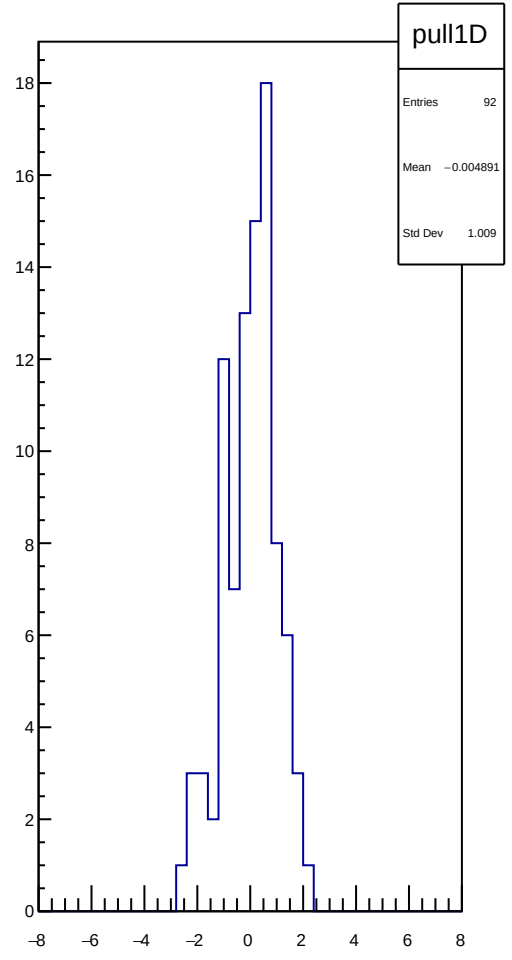

pull1D
Entries 92
Mean −0.02861
Std Dev 0.9978

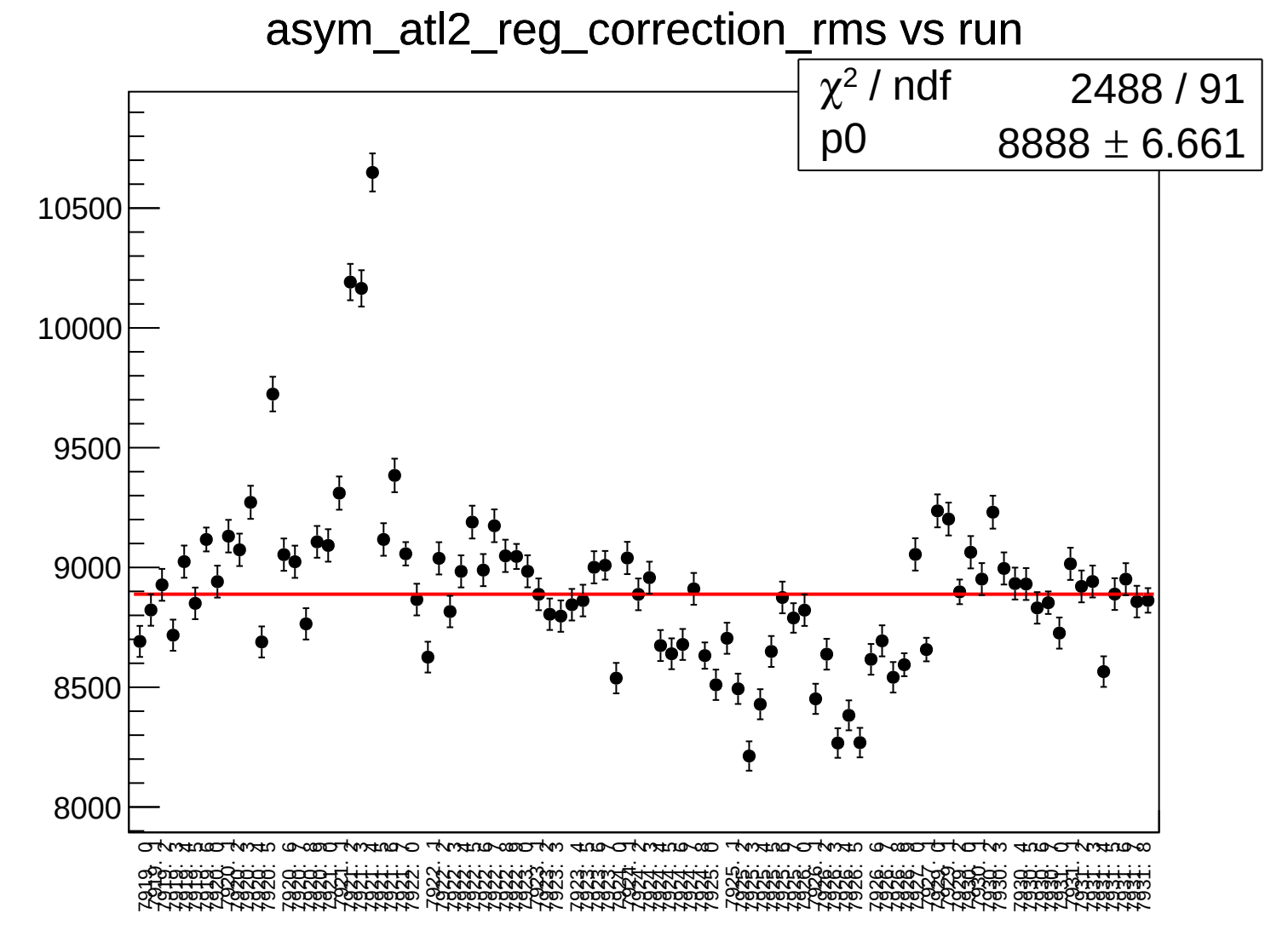

asym_atl1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.237e+05 / 91
p0 9.286e−11 ± 8.625e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

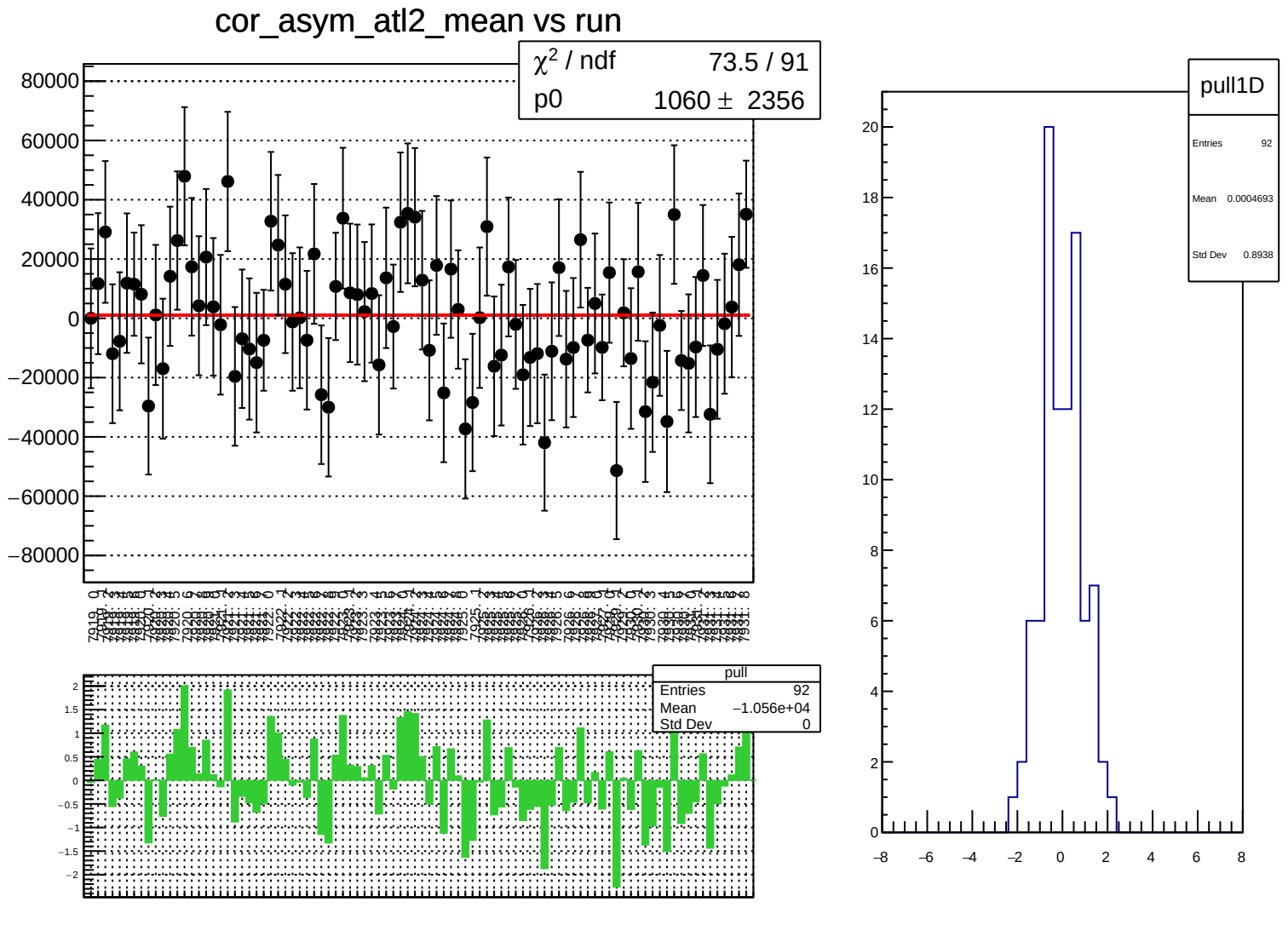

reg_asym_atl2_mean vs run
χ² / ndf 73.5 / 91
p0 1060 ± 2356
pull
Entries 92
Mean −1.054e+04
Std Dev 0
pull1D
Entries 92
Mean 0.0004702
Std Dev 0.8938

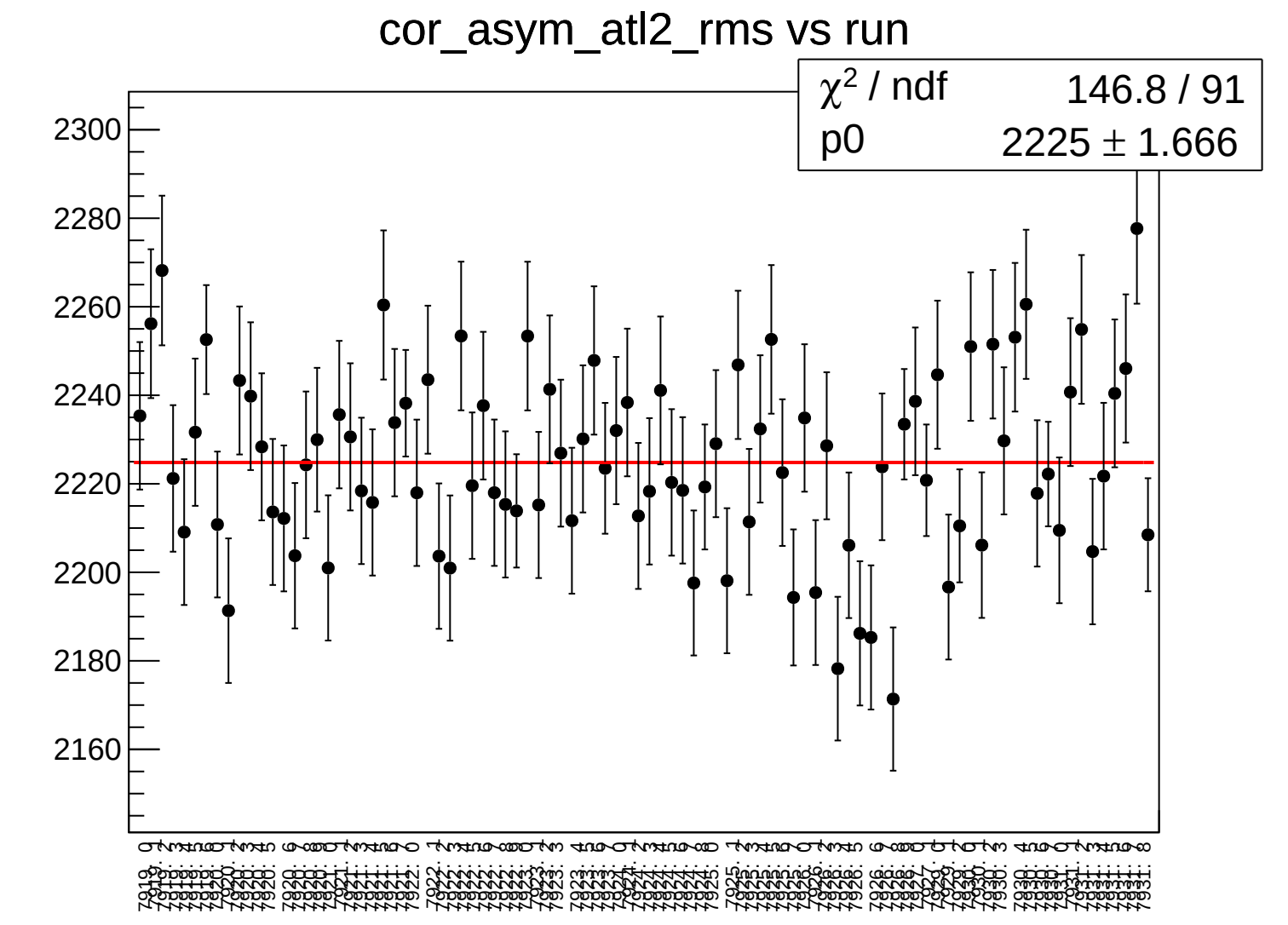

reg_asym_atl2_rms vs run
χ^2 / ndf 146.8 / 91
p0 2225 ± 1.666
2300
2280
2260
2240
2220
2200
2180
2160

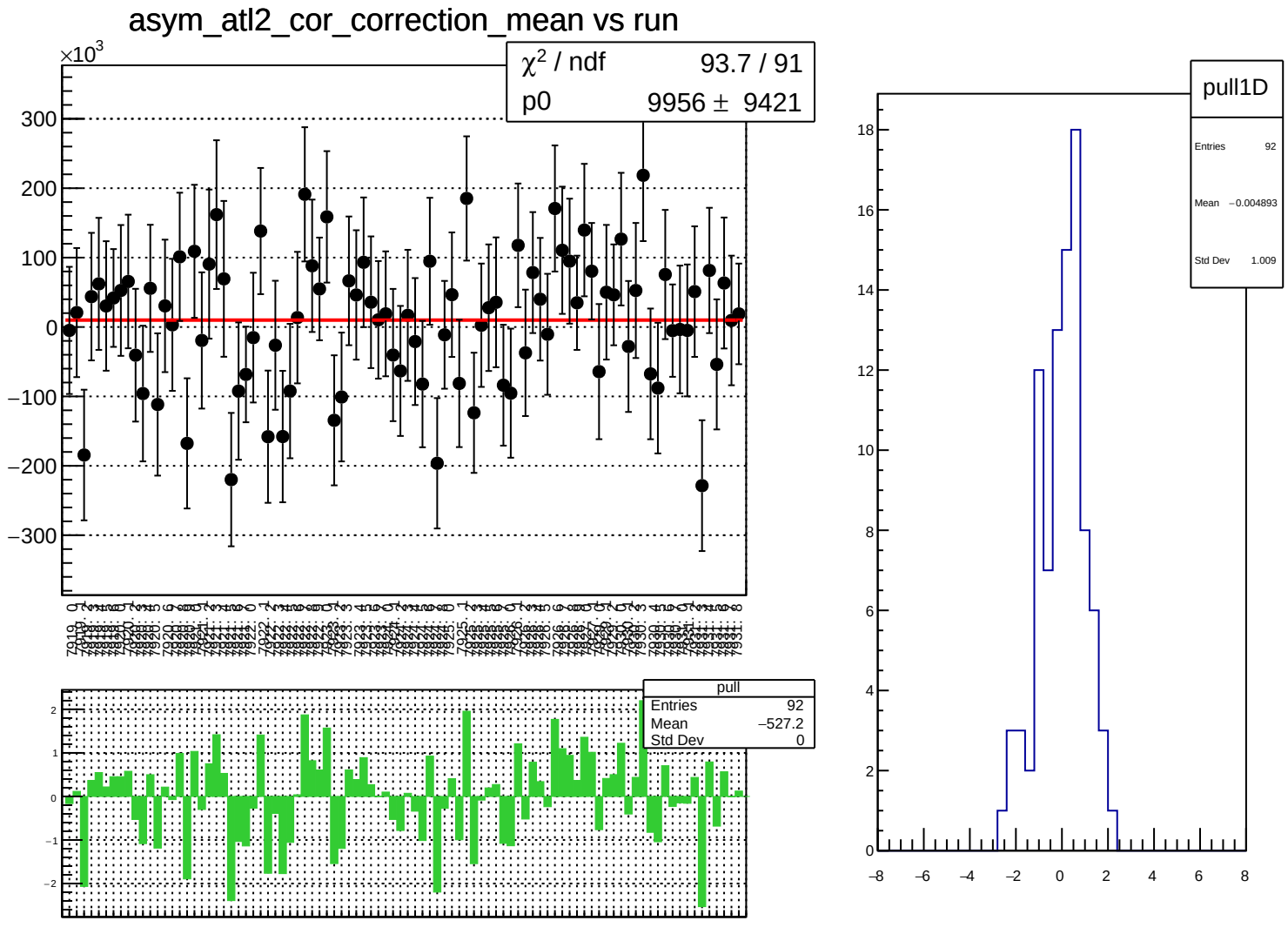

asym_atl2_reg_correction_mean vs run
×10^3
χ² / ndf 93.7 / 91
p0 9956 ± 9421
300
200
100
0
−100
−200
−300
pull
Entries 92
Mean −527.4
Std Dev 0
2
1
0
−1
−2

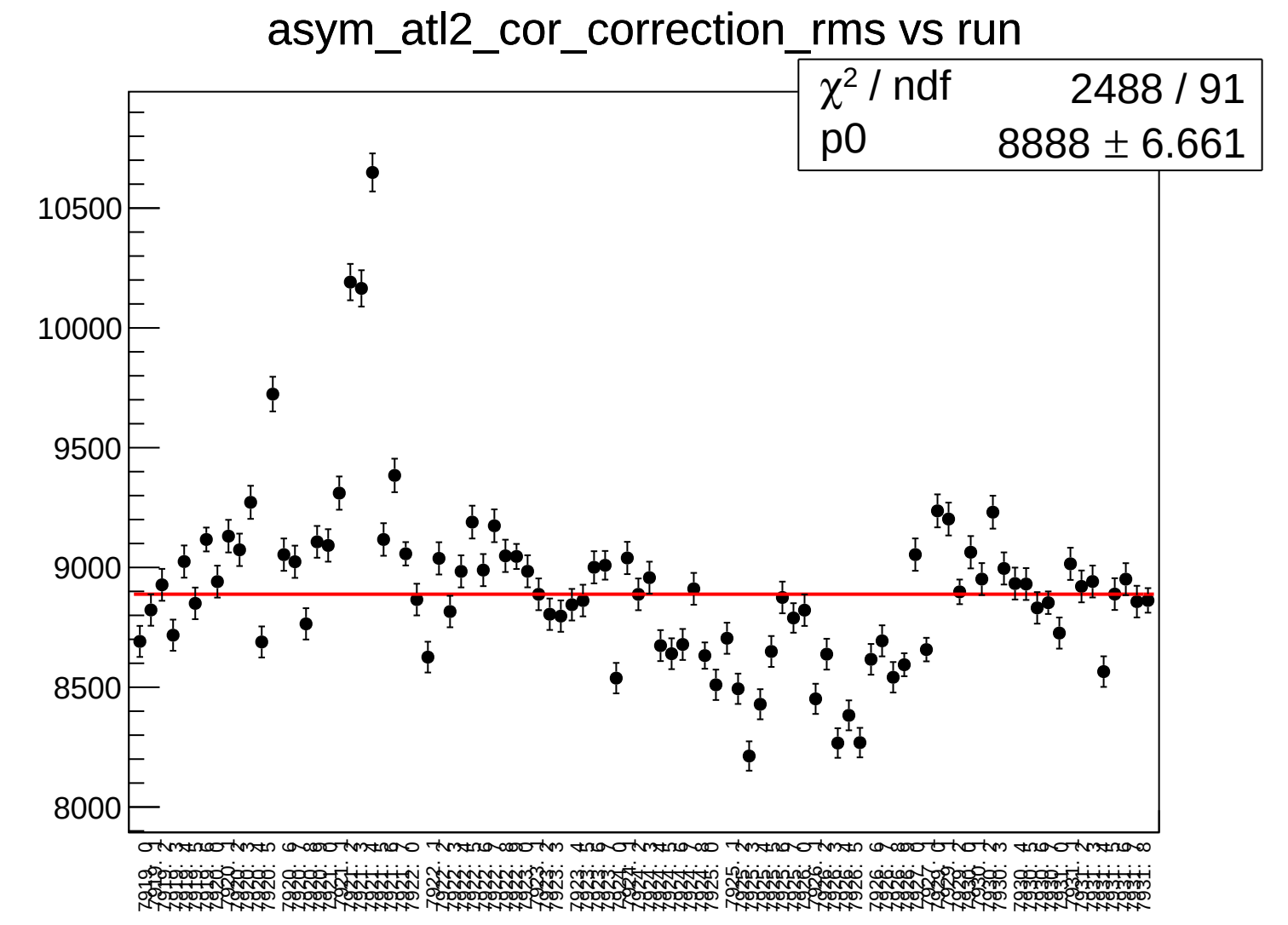

pull1D
Entries 92
Mean −0.004891
Std Dev 1.009
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

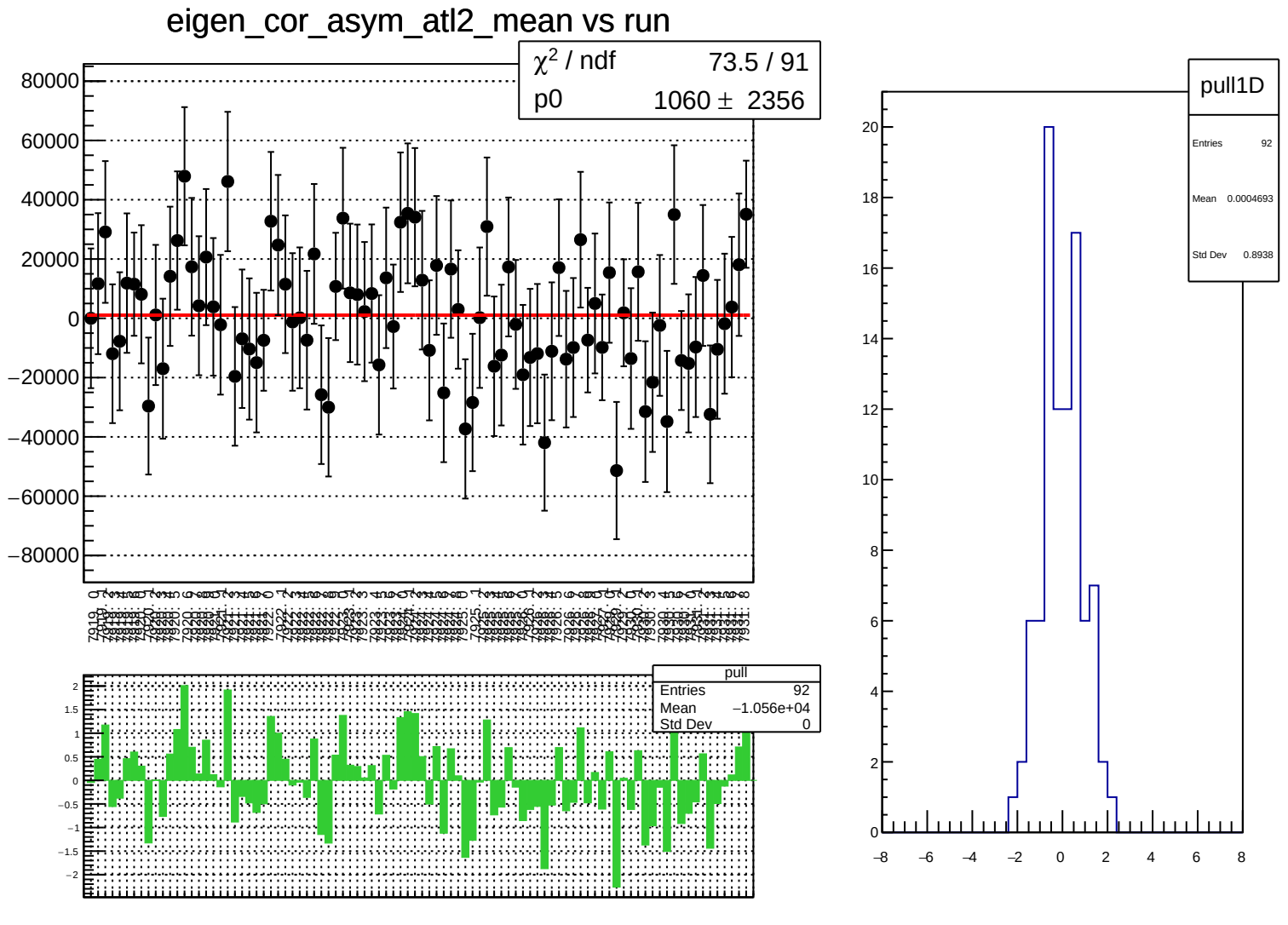

asym_atl2_reg_correction_rms vs run
χ² / ndf 2488 / 91
p0 8888 ± 6.661
10500
10000
9500
9000
8500
8000

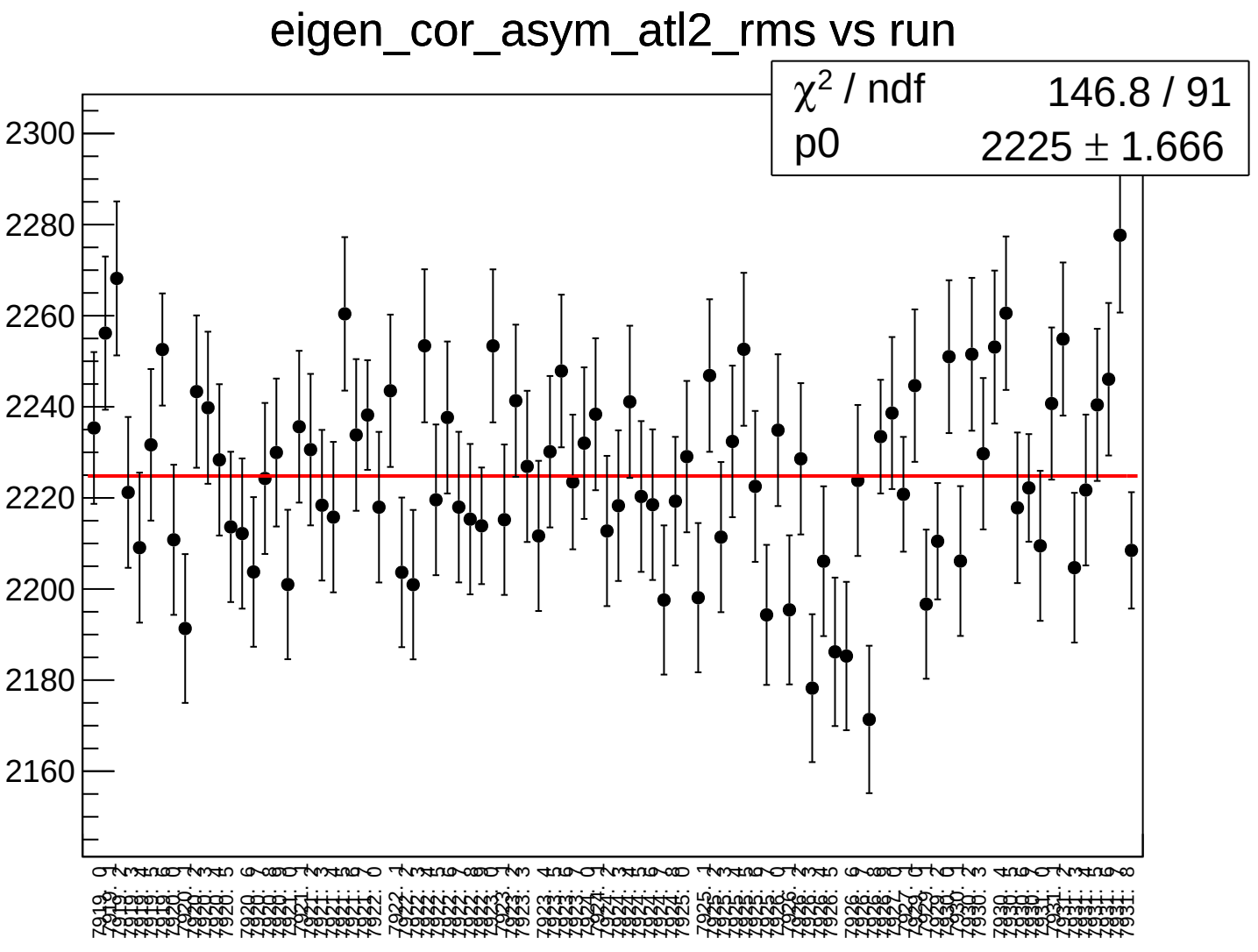

cor_asym_atl2_mean vs run
χ² / ndf 73.5 / 91
p0 1060 ± 2356
pull
Entries 92
Mean −1.056e+04
Std Dev 0
pull1D
Entries 92
Mean 0.0004693
Std Dev 0.8938

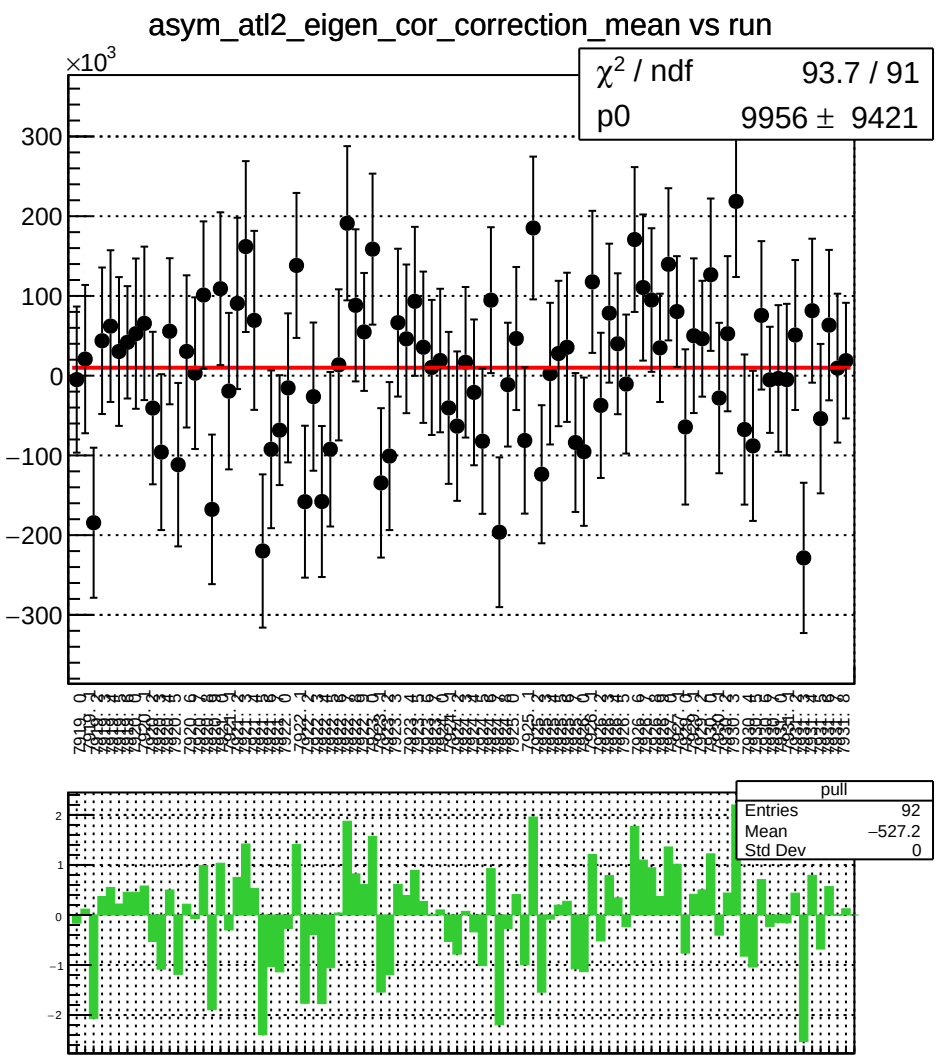

cor_asym_atl2_rms vs run
χ^2 / ndf 146.8 / 91
p0 2225 ± 1.666
2300
2280
2260
2240
2220
2200
2180
2160

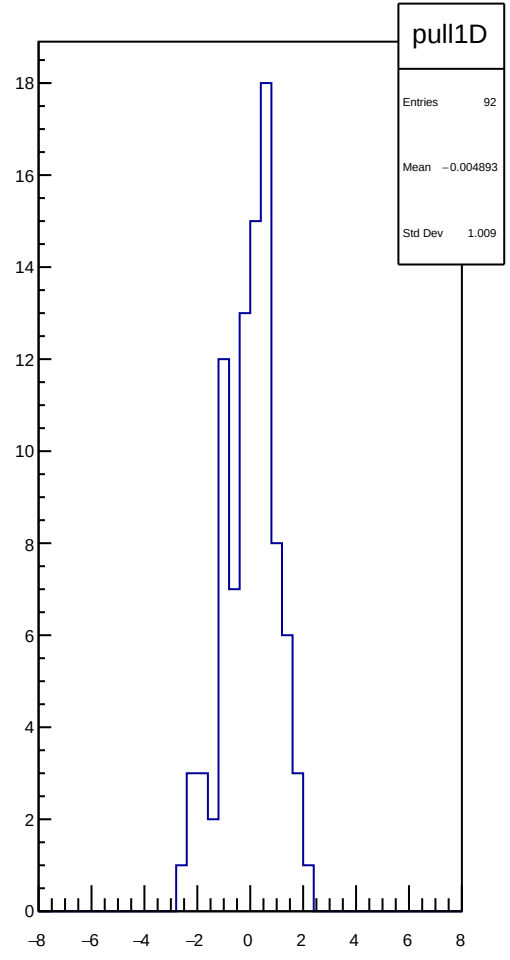

asym_atl2_cor_correction_mean vs run
×10^3
χ^2 / ndf 93.7 / 91
p0 9956 ± 9421
300
200
100
0
−100
−200
−300
pull
Entries 92
Mean −527.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.004893
Std Dev 1.009
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

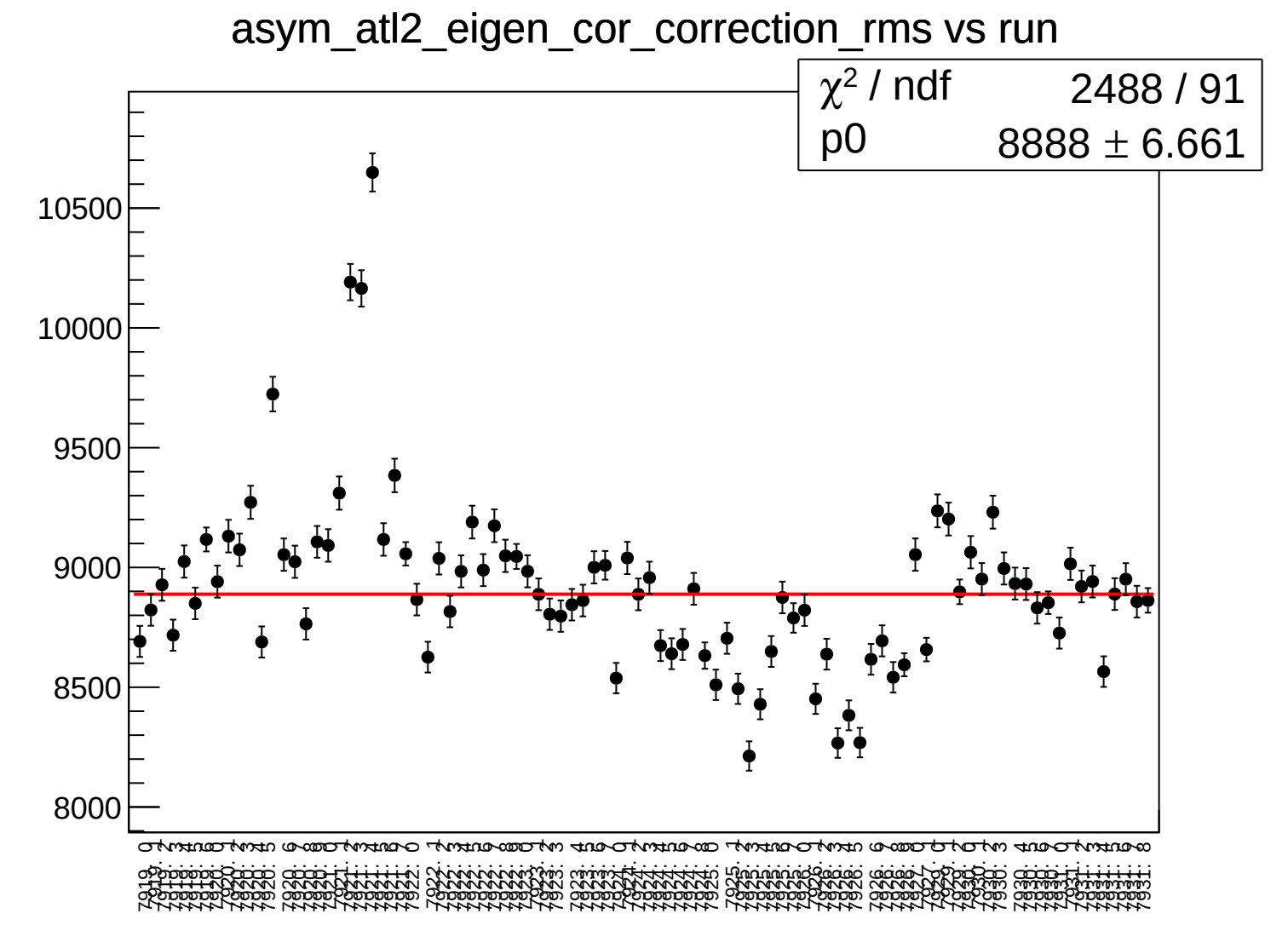

asym_atl2_cor_correction_rms vs run
χ² / ndf 2488 / 91
p0 8888 ± 6.661
10500
10000
9500
9000
8500
8000

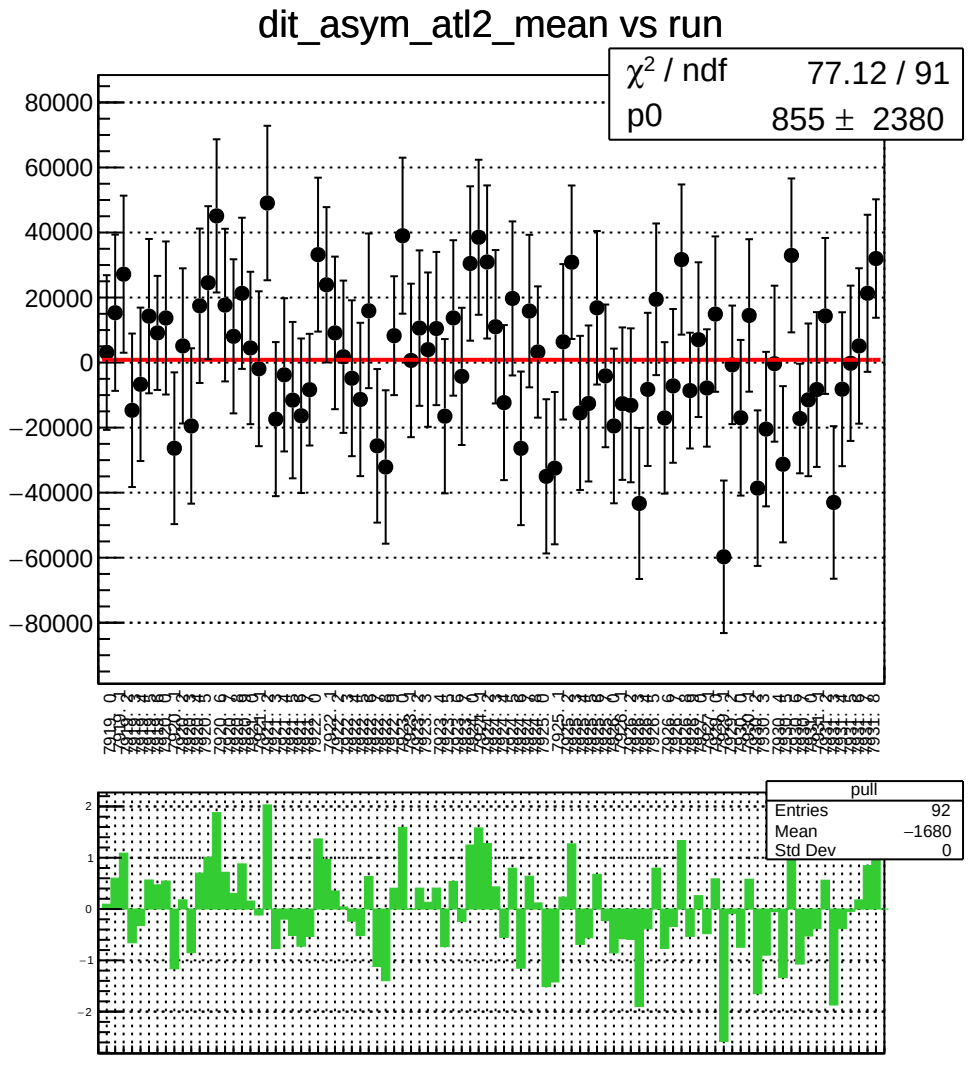

eigen_cor_asym_atl2_mean vs run
χ² / ndf 73.5 / 91
p0 1060 ± 2356
pull
Entries 92
Mean −1.056e+04
Std Dev 0
pull1D
Entries 92
Mean 0.0004693
Std Dev 0.8938

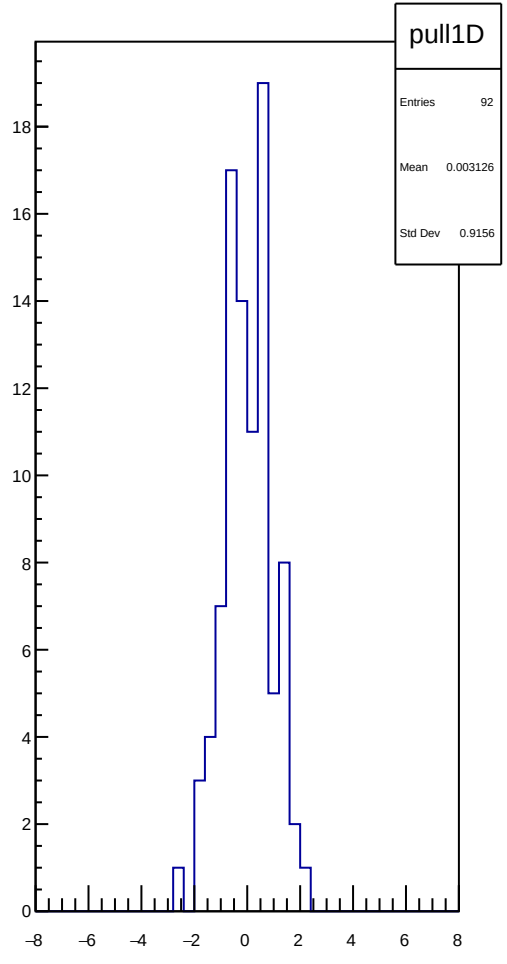

eigen_cor_asym_atl2_rms vs run
χ^2 / ndf 146.8 / 91
p0 2225 ± 1.666
2300
2280
2260
2240
2220
2200
2180
2160

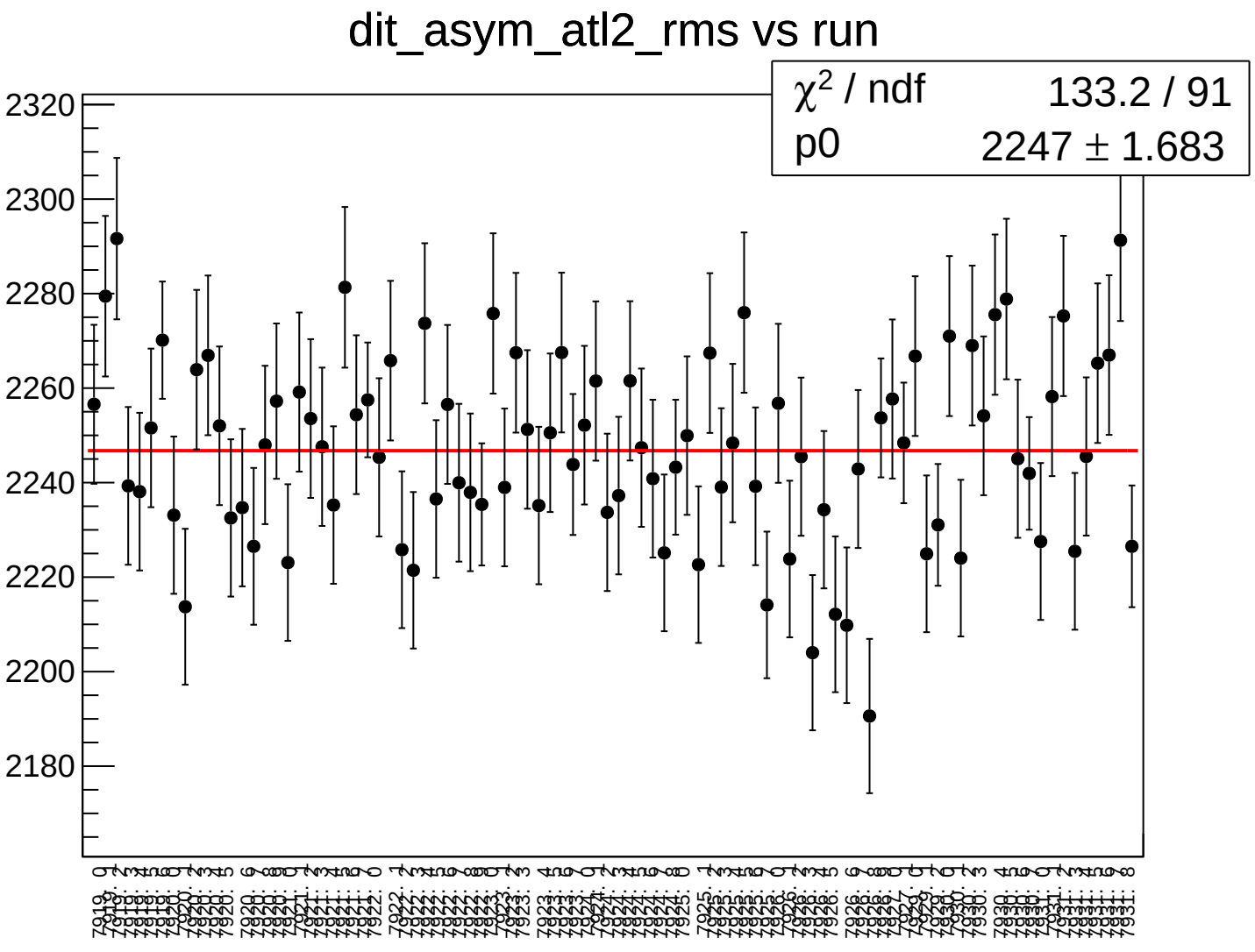

asym_atl2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 93.7 / 91
p0 9956 ± 9421
300
200
100
0
−100
−200
−300
pull
Entries 92
Mean −527.2
Std Dev 0
2
1
0
−1
−2

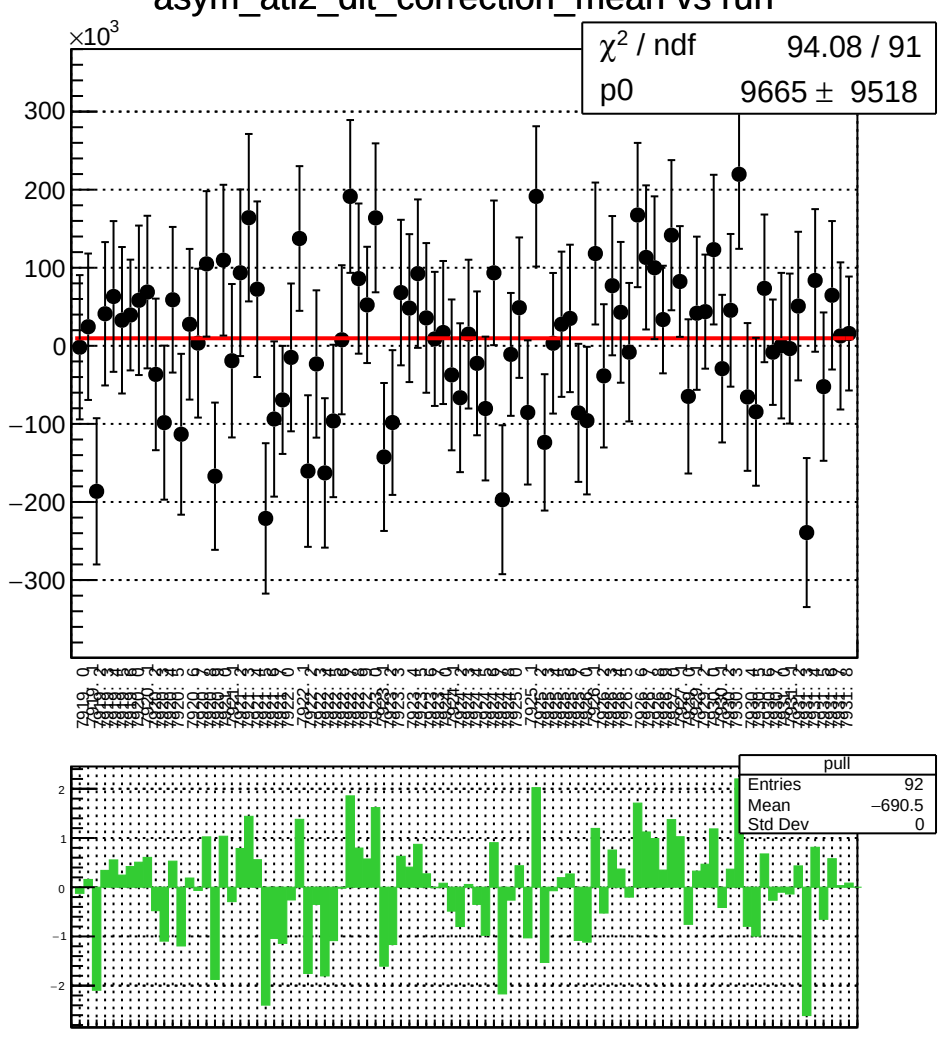

pull1D
Entries 92
Mean −0.004893
Std Dev 1.009
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

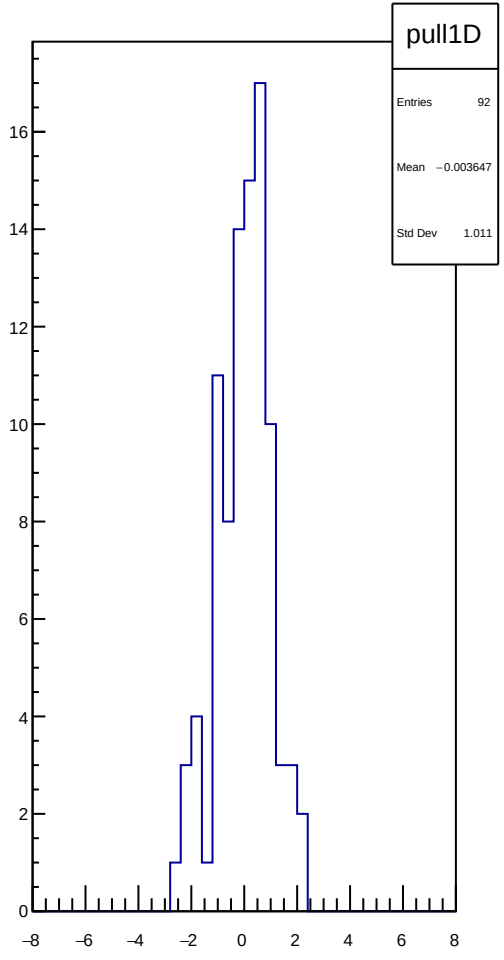

asym_atl2_eigen_cor_correction_rms vs run
χ² / ndf 2488 / 91
p0 8888 ± 6.661
10500
10000
9500
9000
8500
8000

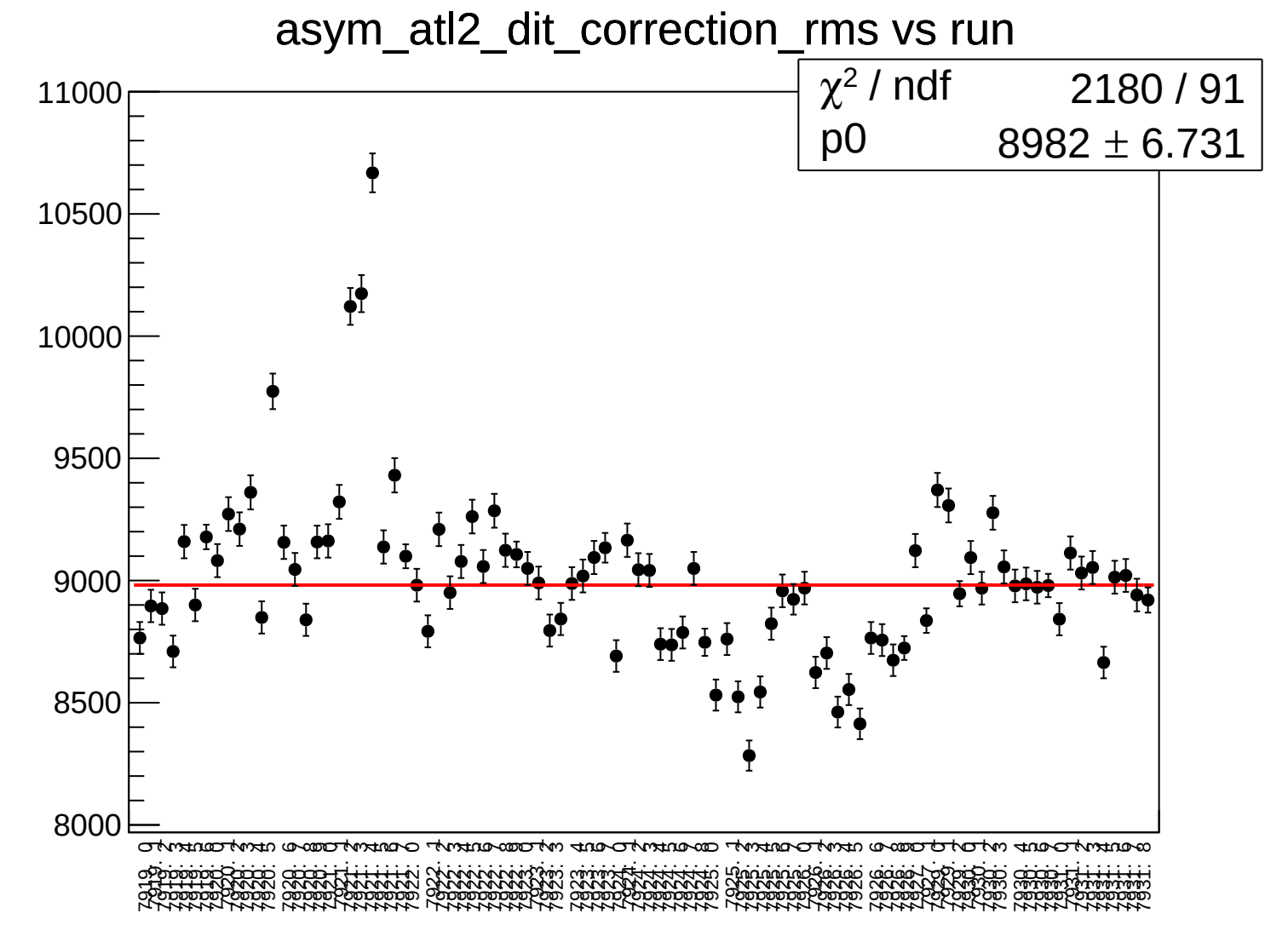

dit_asym_atl2_mean vs run
χ² / ndf 77.12 / 91
p0 855 ± 2380
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean −1680
Std Dev 0
2
1
0
−1
−2

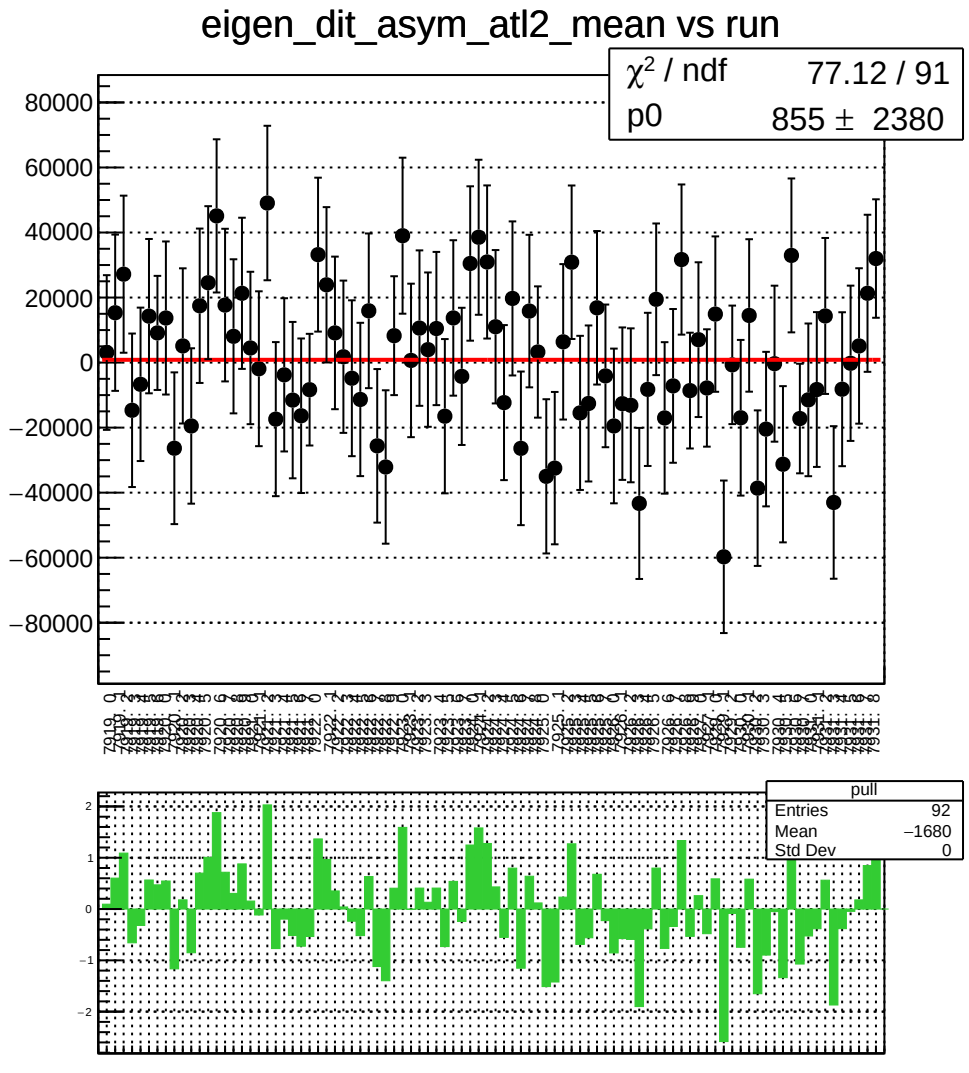

pull1D
Entries 92
Mean 0.003126
Std Dev 0.9156
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

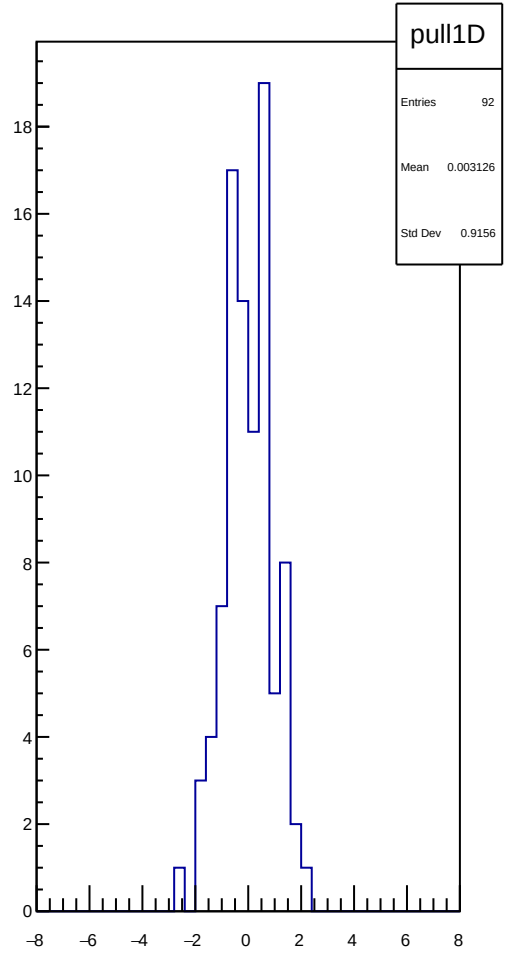

dit_asym_atl2_rms vs run
χ² / ndf 133.2 / 91
p0 2247 ± 1.683
2320
2300
2280
2260
2240
2220
2200
2180

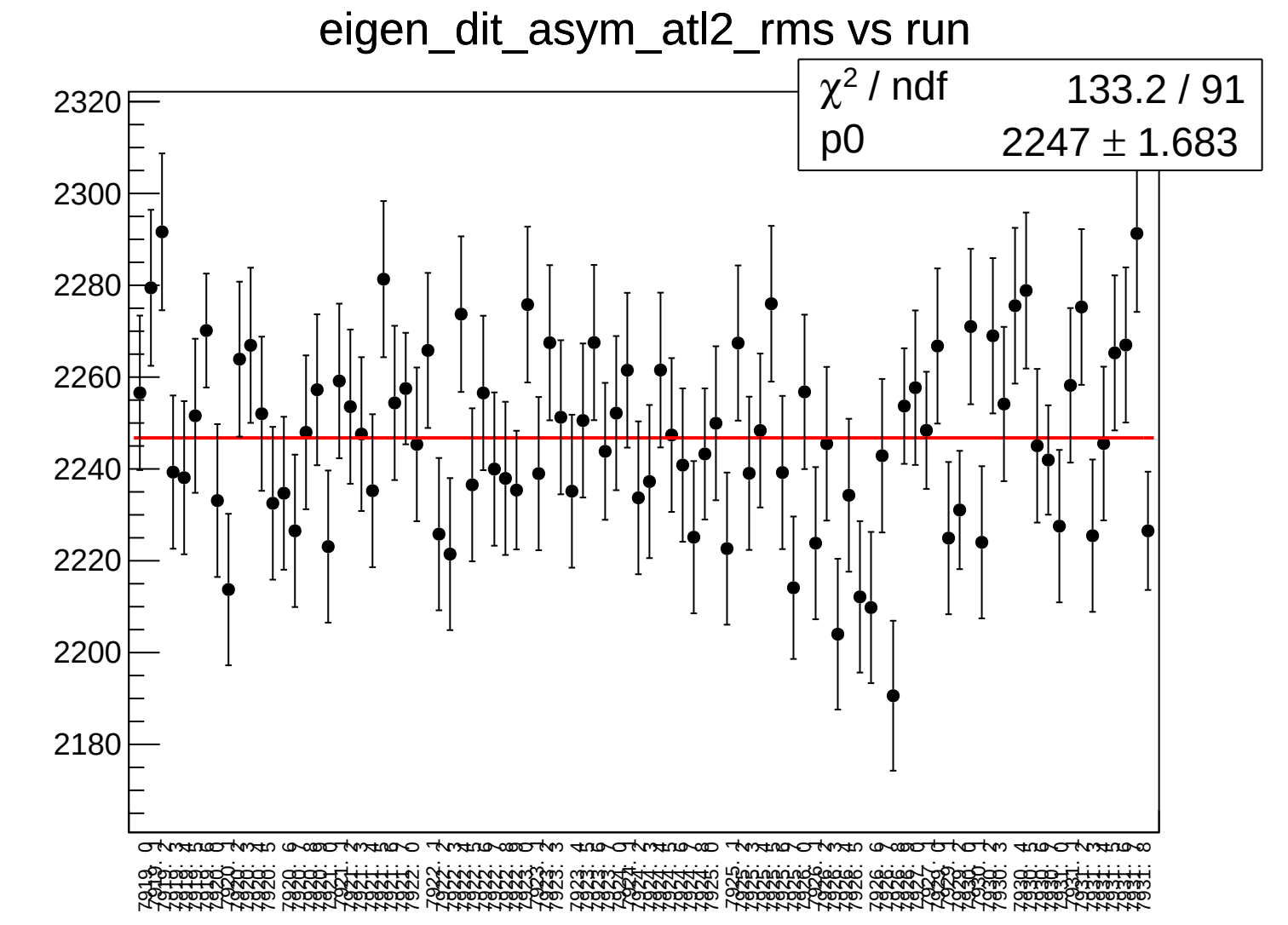

asym_atl2_dit_correction_mean vs run
×10^3
χ² / ndf 94.08 / 91
p0 9665 ± 9518
300
200
100
0
−100
−200
−300
pull
Entries 92
Mean −690.5
Std Dev 0
2
1
0
−1
−2

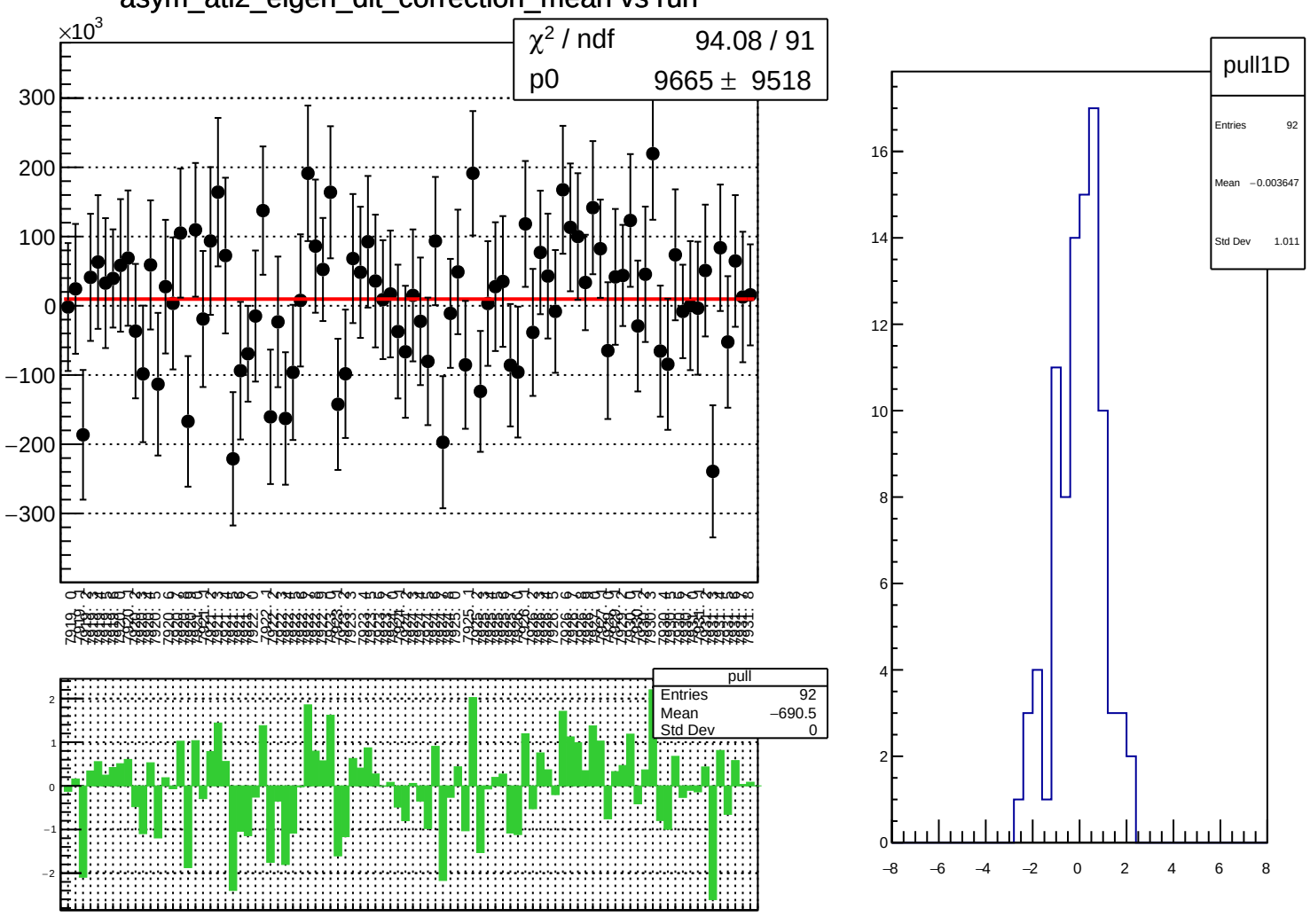

pull1D
Entries 92
Mean −0.003647
Std Dev 1.011
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

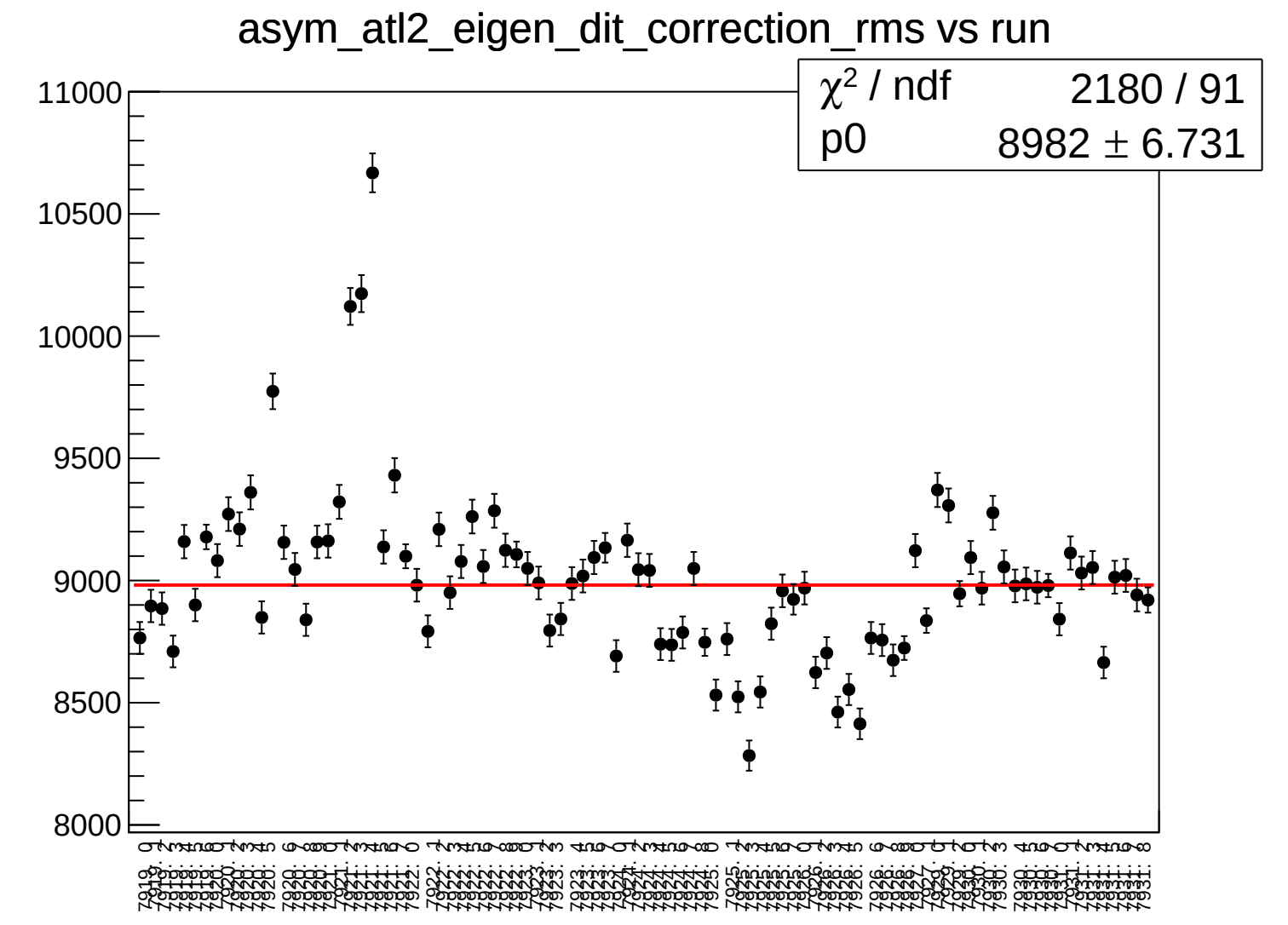

asym_atl2_dit_correction_rms vs run
χ^2 / ndf 2180 / 91
p0 8982 ± 6.731
11000
10500
10000
9500
9000
8500
8000

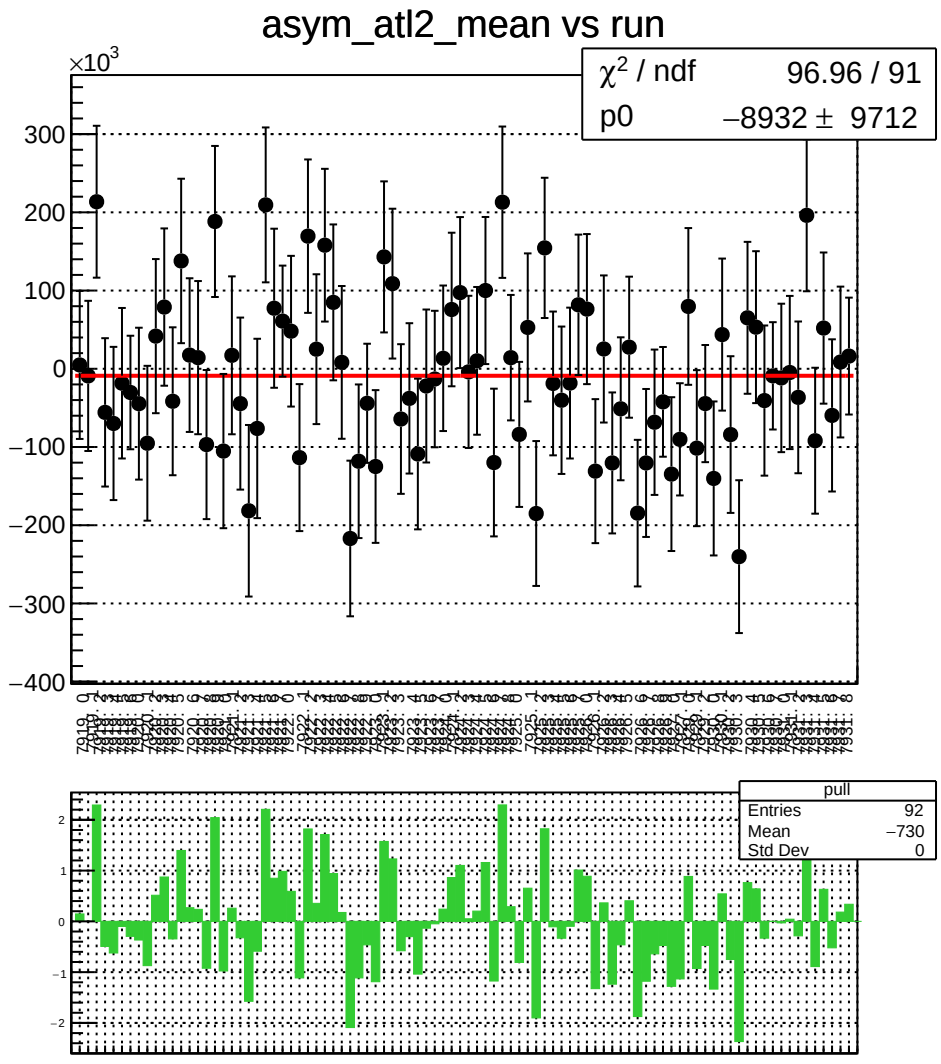

eigen_dit_asym_atl2_mean vs run
χ² / ndf 77.12 / 91
p0 855 ± 2380
pull
Entries 92
Mean −1680
Std Dev 0

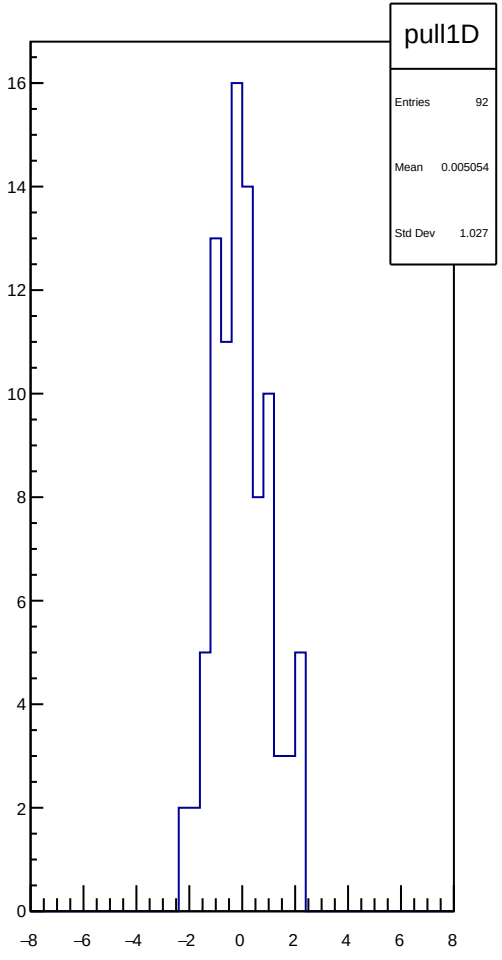

pull1D
Entries 92
Mean 0.003126
Std Dev 0.9156

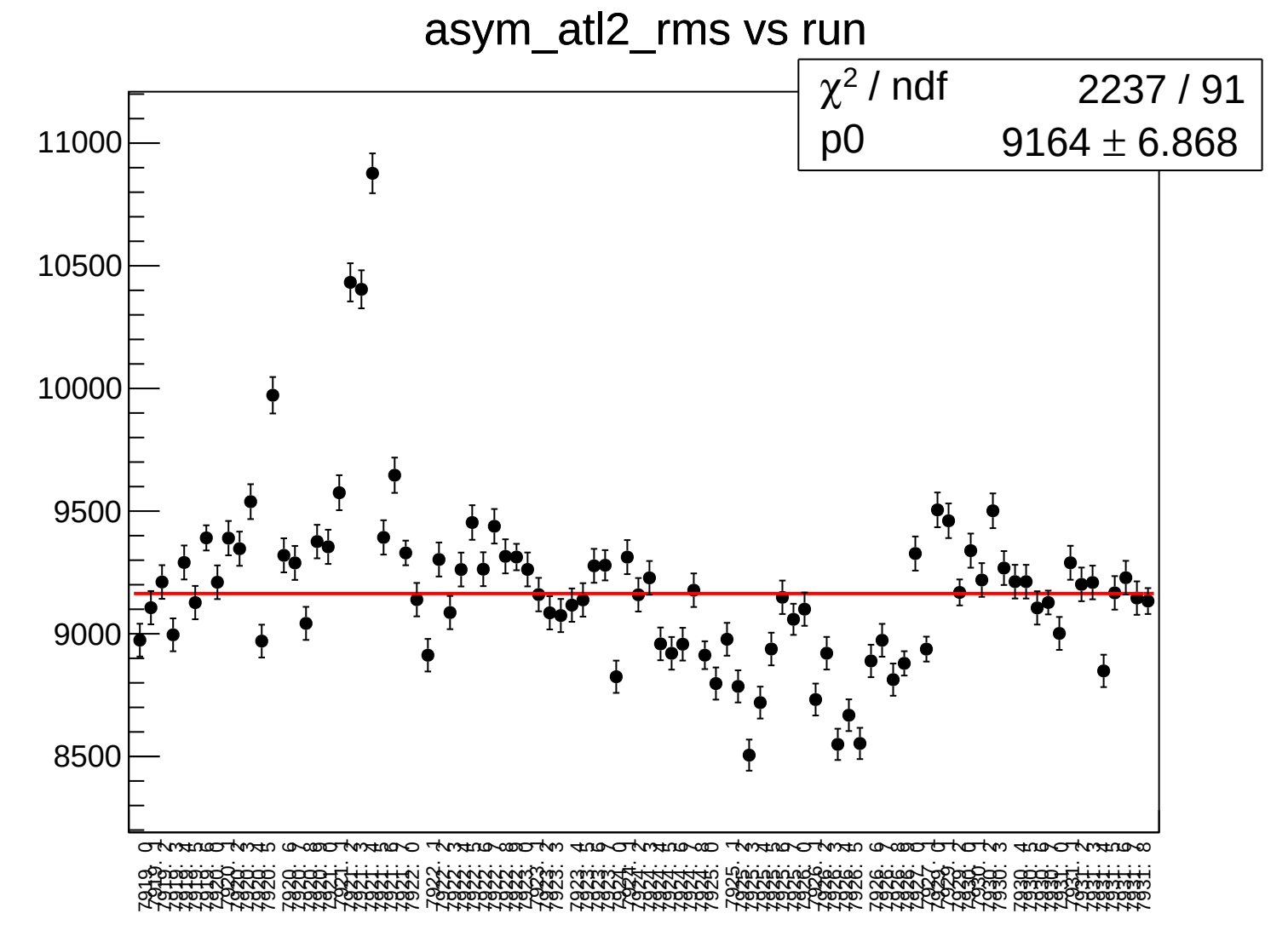

eigen_dit_asym_atl2_rms vs run
χ^2 / ndf 133.2 / 91
p0 2247 ± 1.683
2320
2300
2280
2260
2240
2220
2200
2180

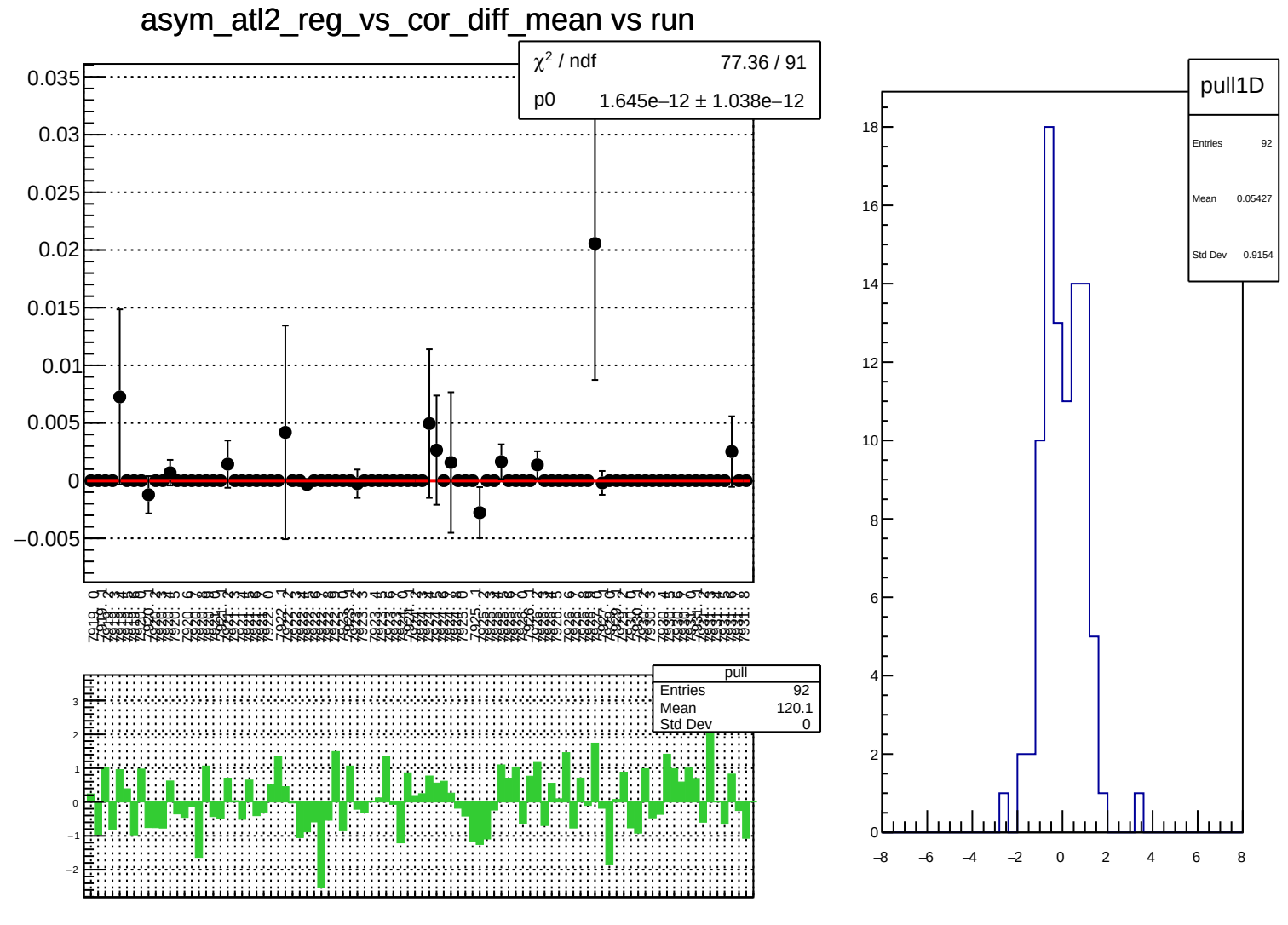

asym_atl2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 94.08 / 91
p0 9665 ± 9518
300
200
100
0
−100
−200
−300
pull
Entries 92
Mean −690.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.003647
Std Dev 1.011
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

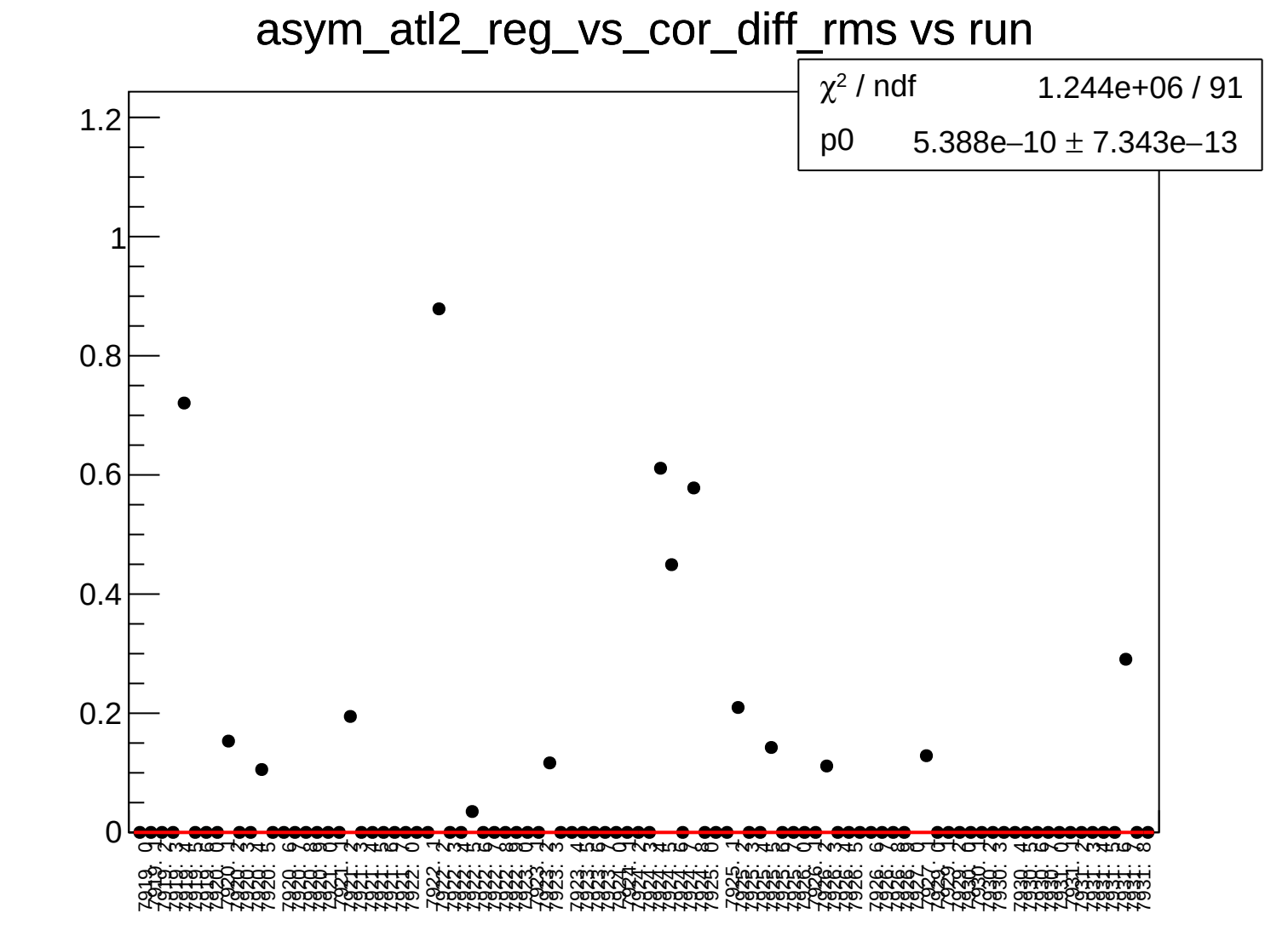

asym_atl2_eigen_dit_correction_rms vs run
χ² / ndf 2180 / 91
p0 8982 ± 6.731
11000
10500
10000
9500
9000
8500
8000

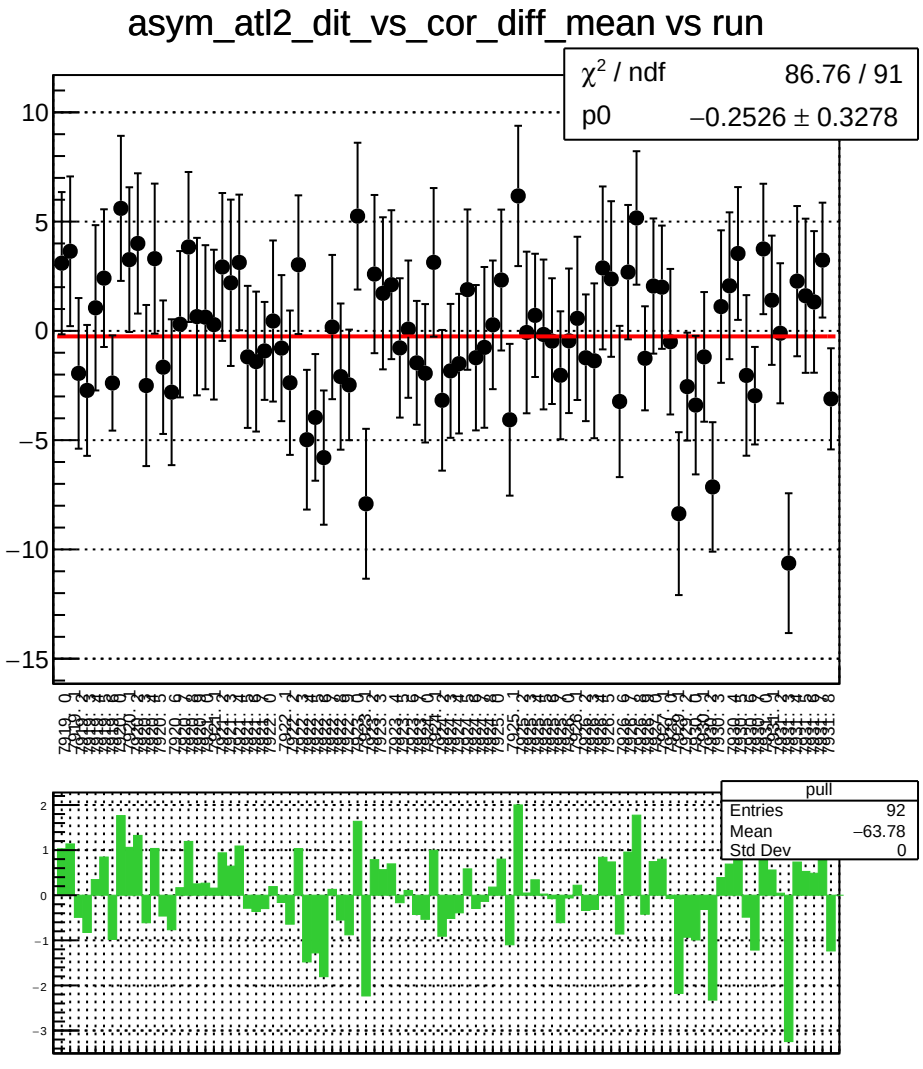

asym_atl2_mean vs run
×10^3
χ² / ndf 96.96 / 91
p0 −8932 ± 9712
pull
Entries 92
Mean −730
Std Dev 0

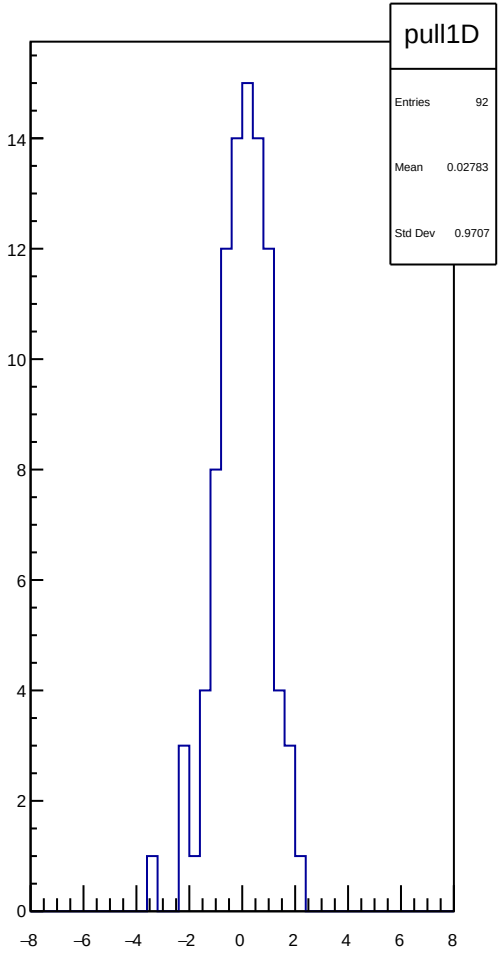

pull1D
Entries 92
Mean 0.005054
Std Dev 1.027

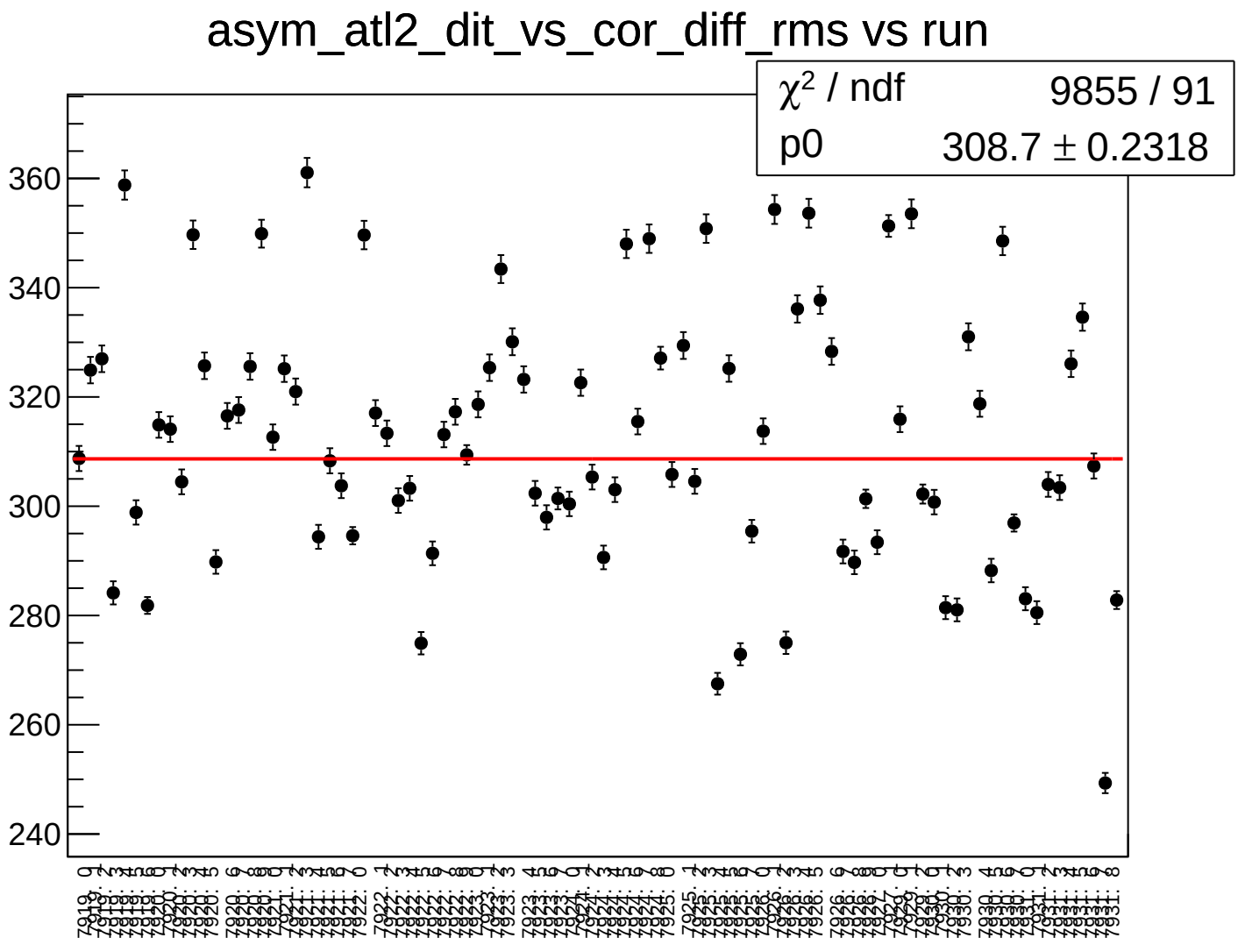

asym_atl2_rms vs run
χ^2 / ndf 2237 / 91
p0 9164 ± 6.868
11000
10500
10000
9500
9000
8500

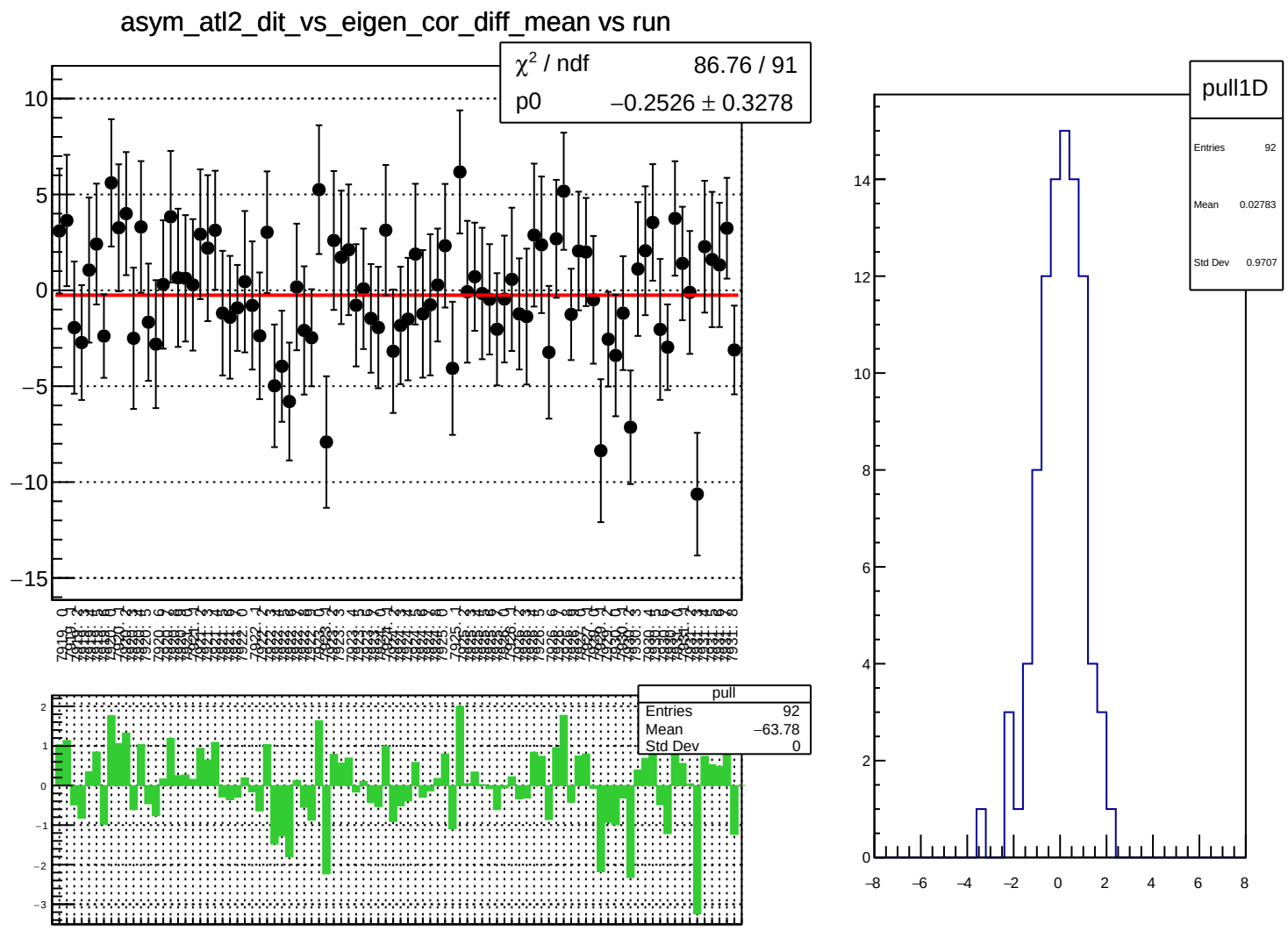

asym_atl2_reg_vs_cor_diff_mean vs run
χ² / ndf 77.36 / 91
p0 1.645e−12 ± 1.038e−12
pull
Entries 92
Mean 120.1
Std Dev 0
pull1D
Entries 92
Mean 0.05427
Std Dev 0.9154

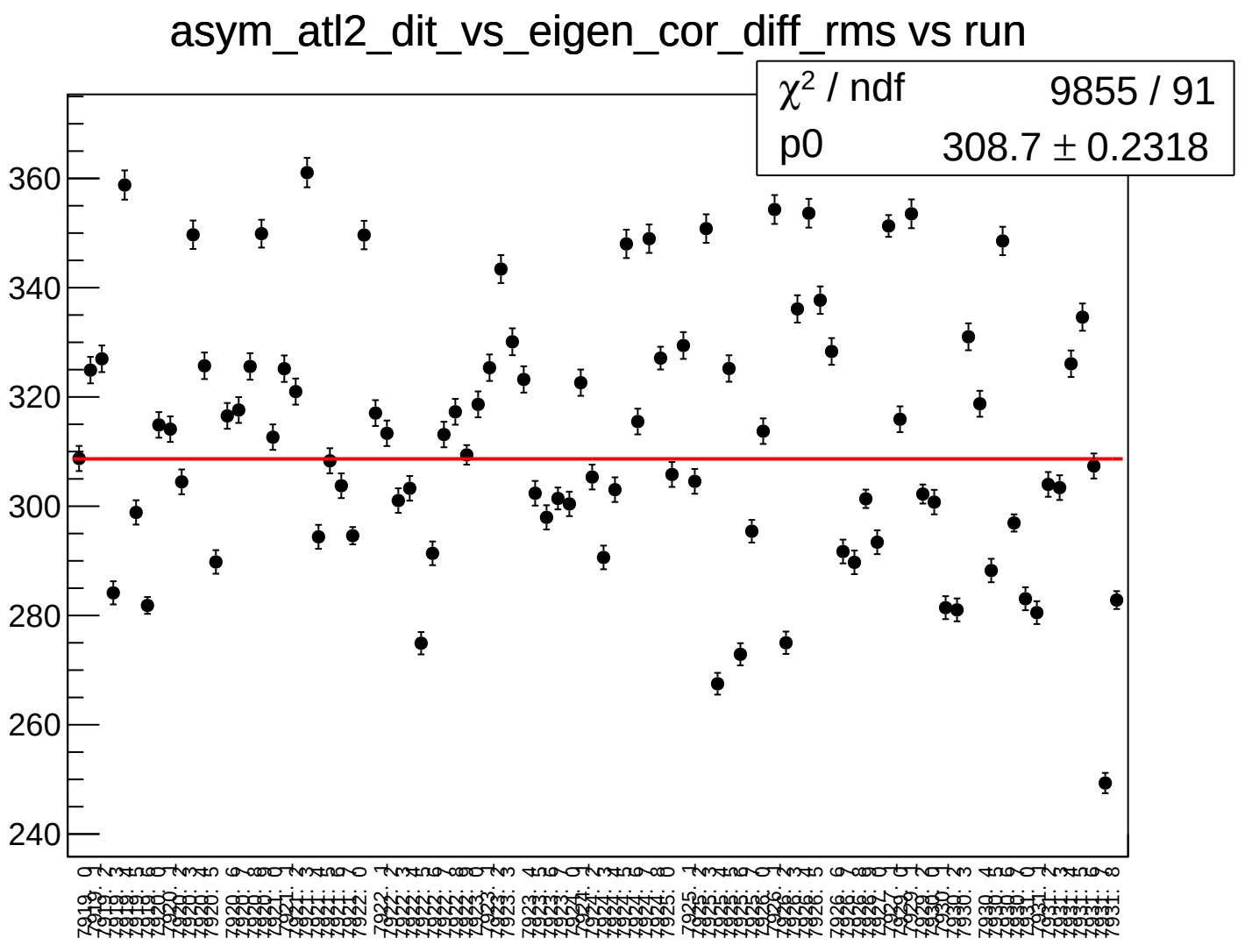

asym_atl2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.244e+06 / 91
p0 5.388e−10 ± 7.343e−13
1.2
1
0.8
0.6
0.4
0.2
0

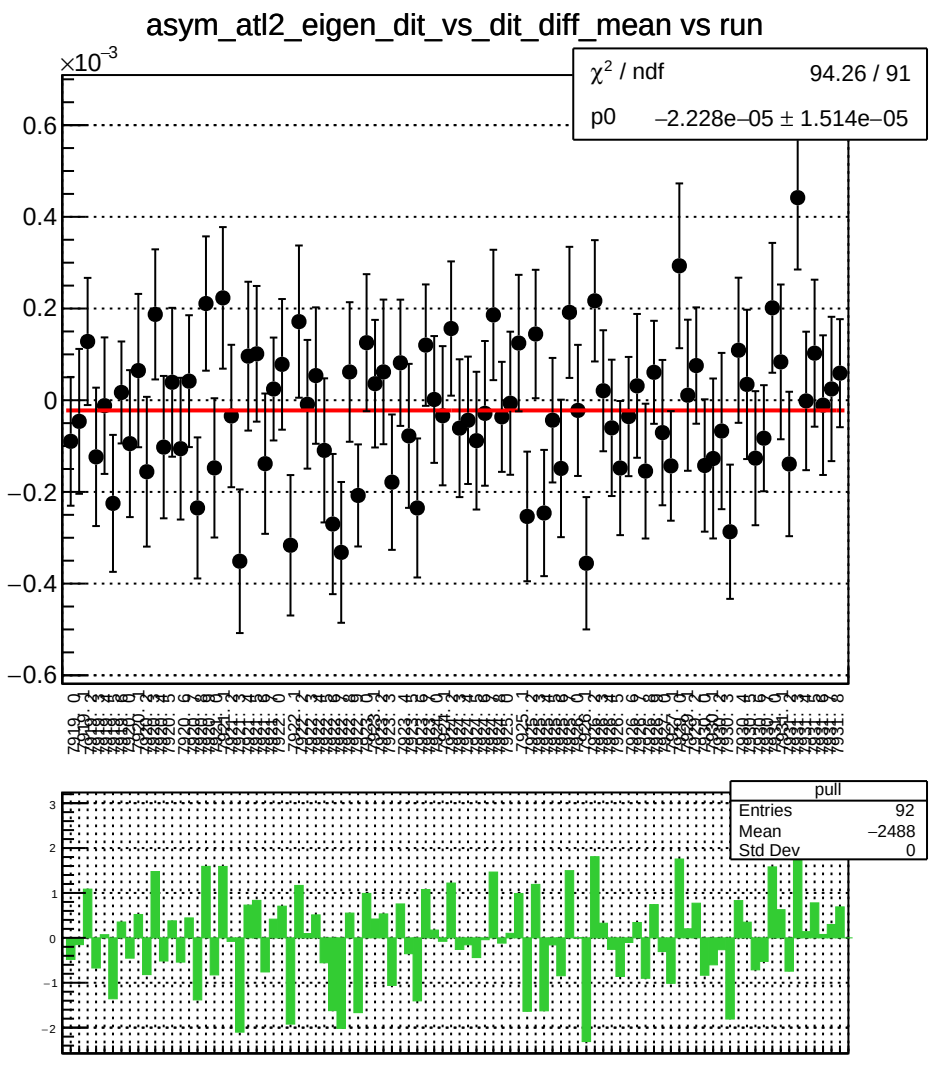

asym_atl2_dit_vs_cor_diff_mean vs run
χ² / ndf 86.76 / 91
p0 −0.2526 ± 0.3278
pull
Entries 92
Mean −63.78
Std Dev 0

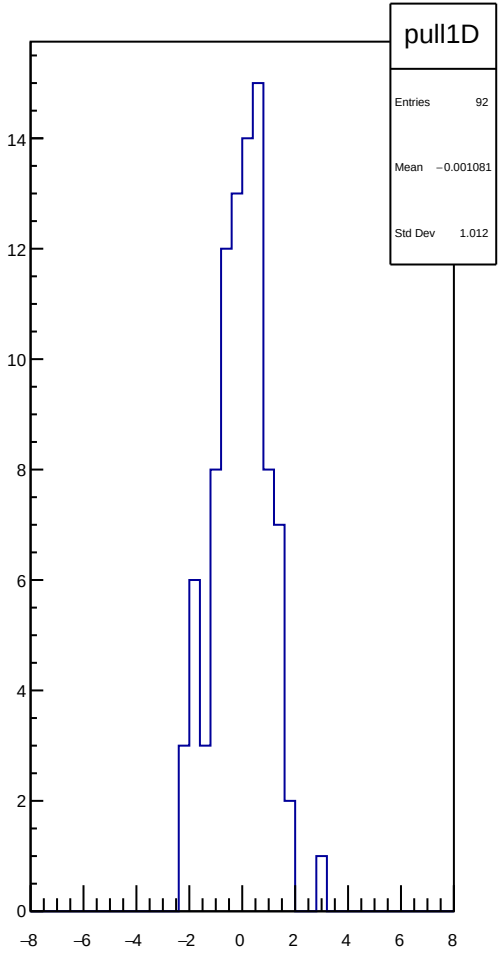

pull1D
Entries 92
Mean 0.02783
Std Dev 0.9707

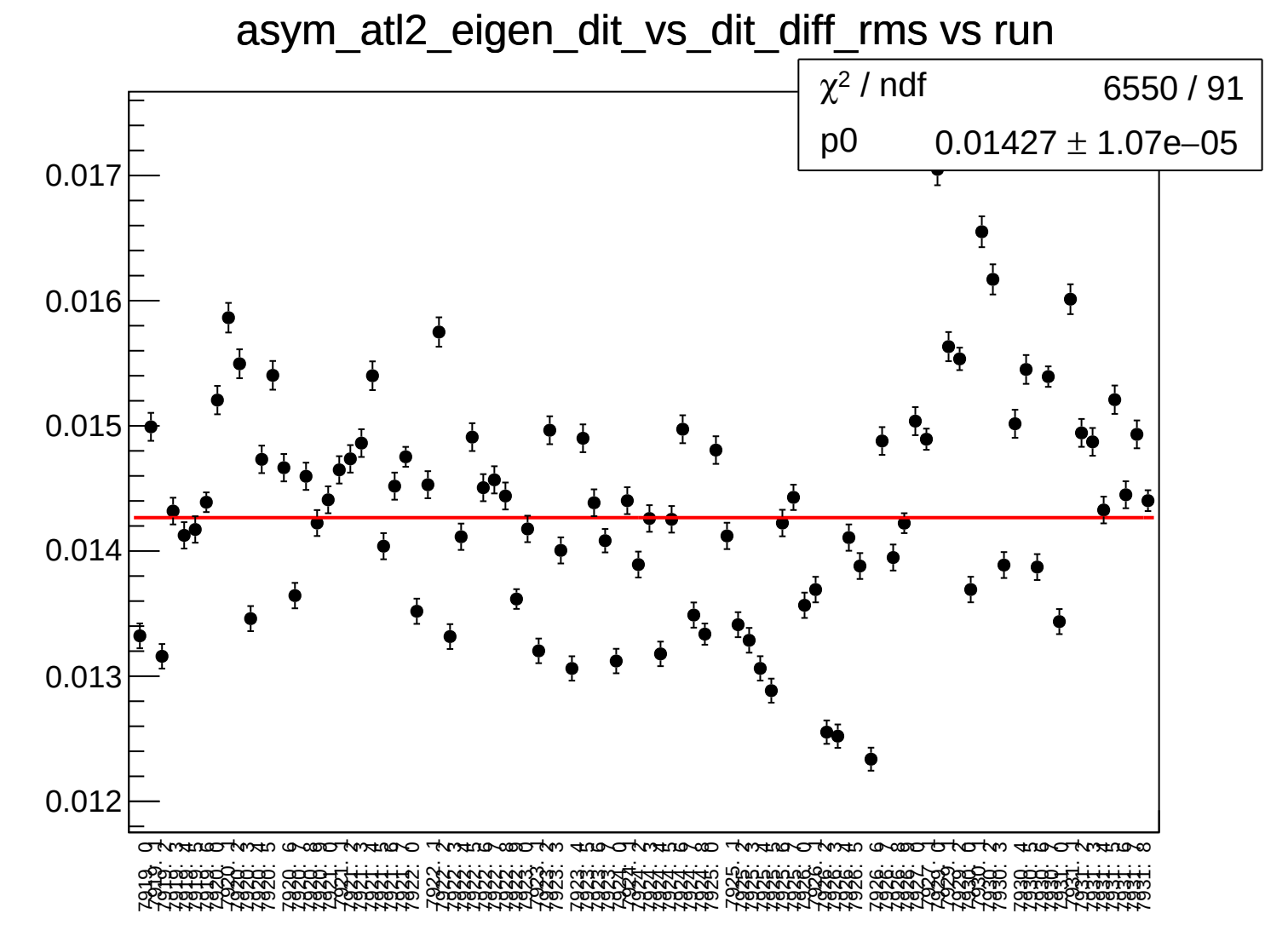

asym_atl2_dit_vs_cor_diff_rms vs run
χ^2 / ndf 9855 / 91
p0 308.7 ± 0.2318
360
340
320
300
280
260
240

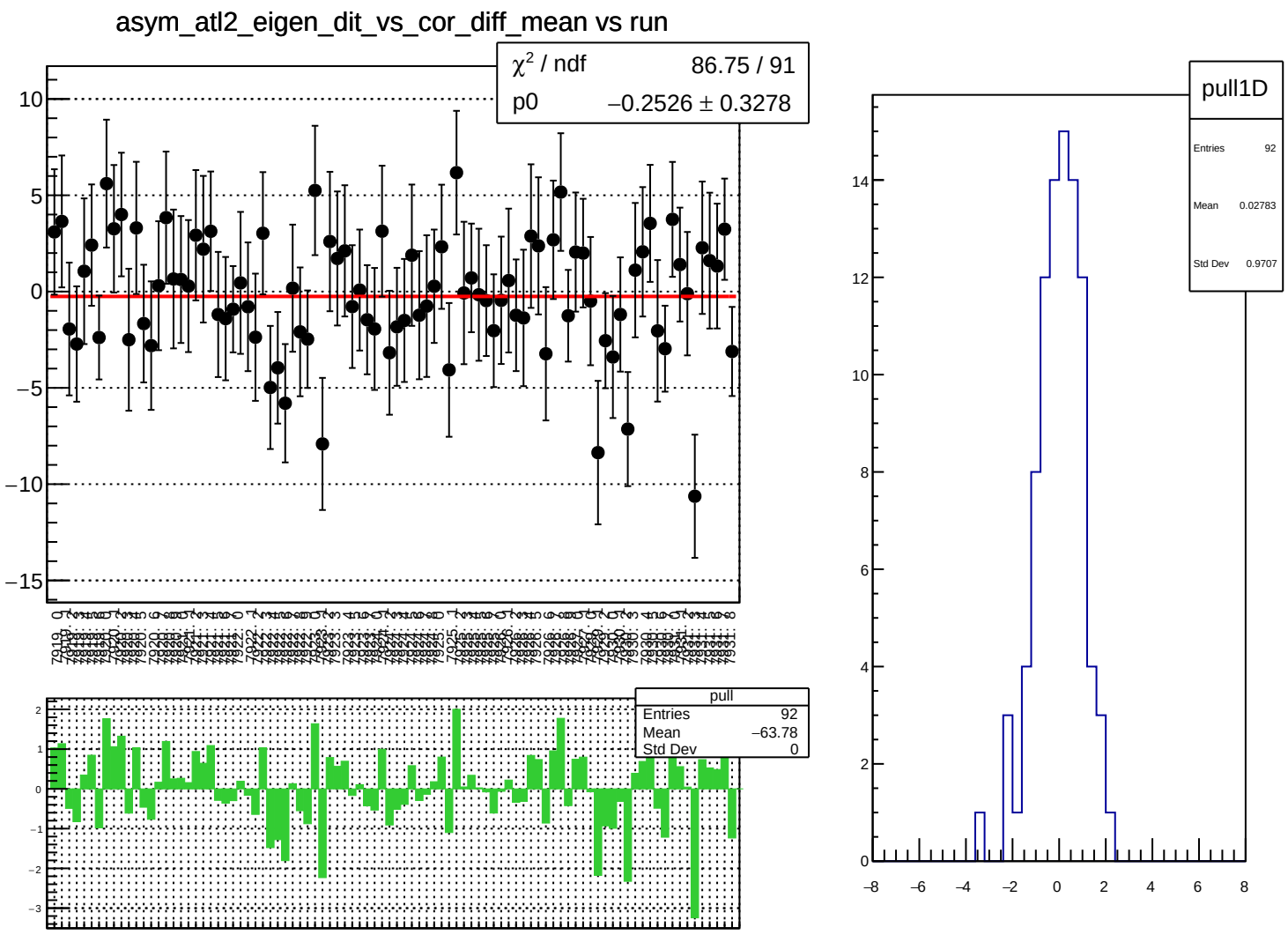

asym_atl2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.76 / 91
p0 −0.2526 ± 0.3278
pull
Entries 92
Mean −63.78
Std Dev 0
pull1D
Entries 92
Mean 0.02783
Std Dev 0.9707

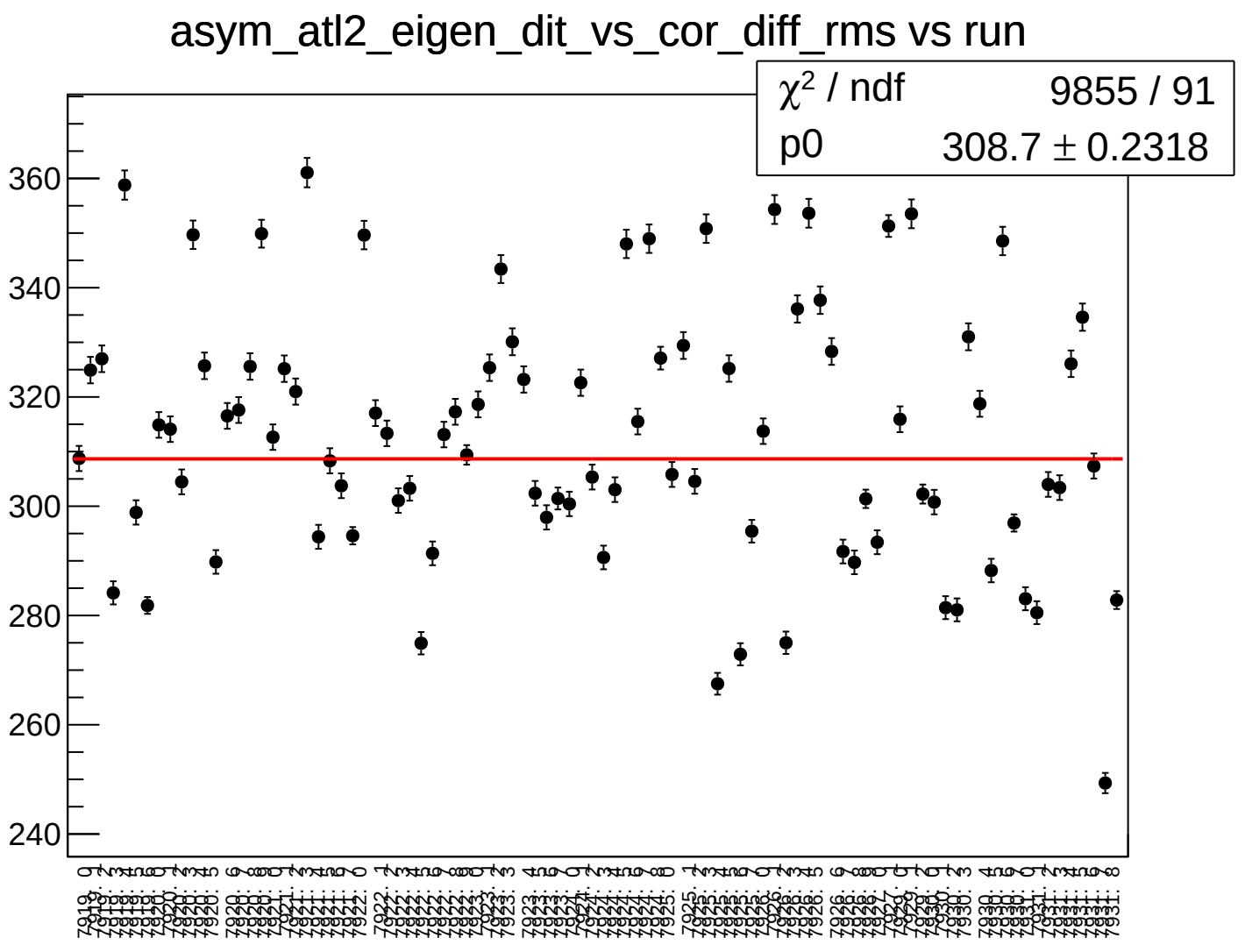

asym_atl2_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 9855 / 91
p0 308.7 ± 0.2318
360
340
320
300
280
260
240

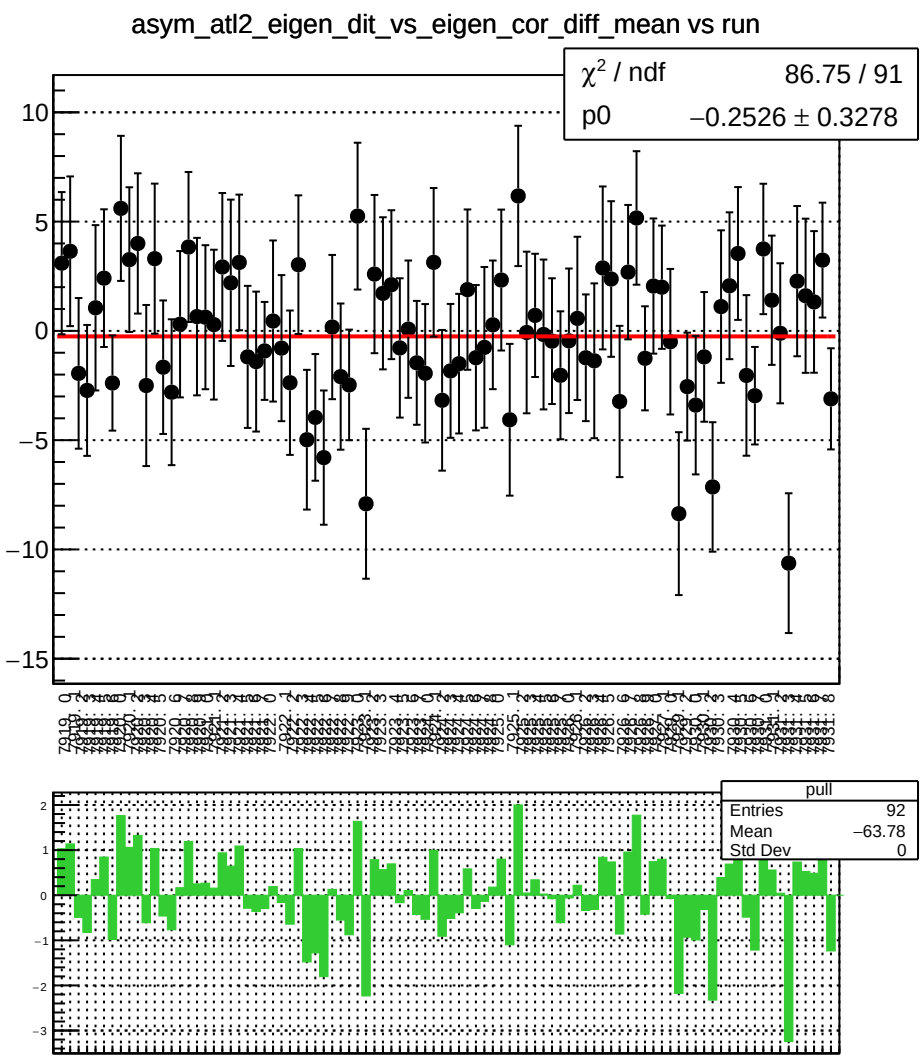

asym_atl2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 94.26 / 91
p0 −2.228e−05 ± 1.514e−05
pull
Entries 92
Mean −2488
Std Dev 0

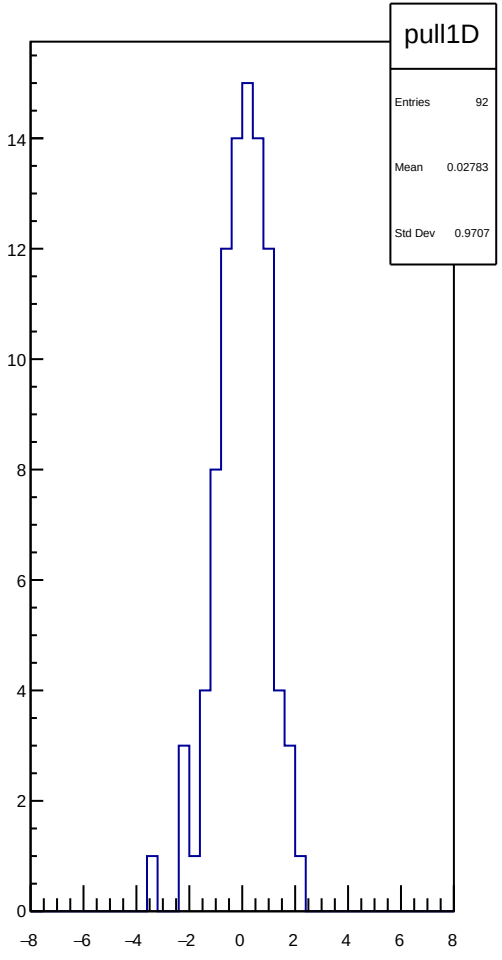

pull1D
Entries 92
Mean −0.001081
Std Dev 1.012

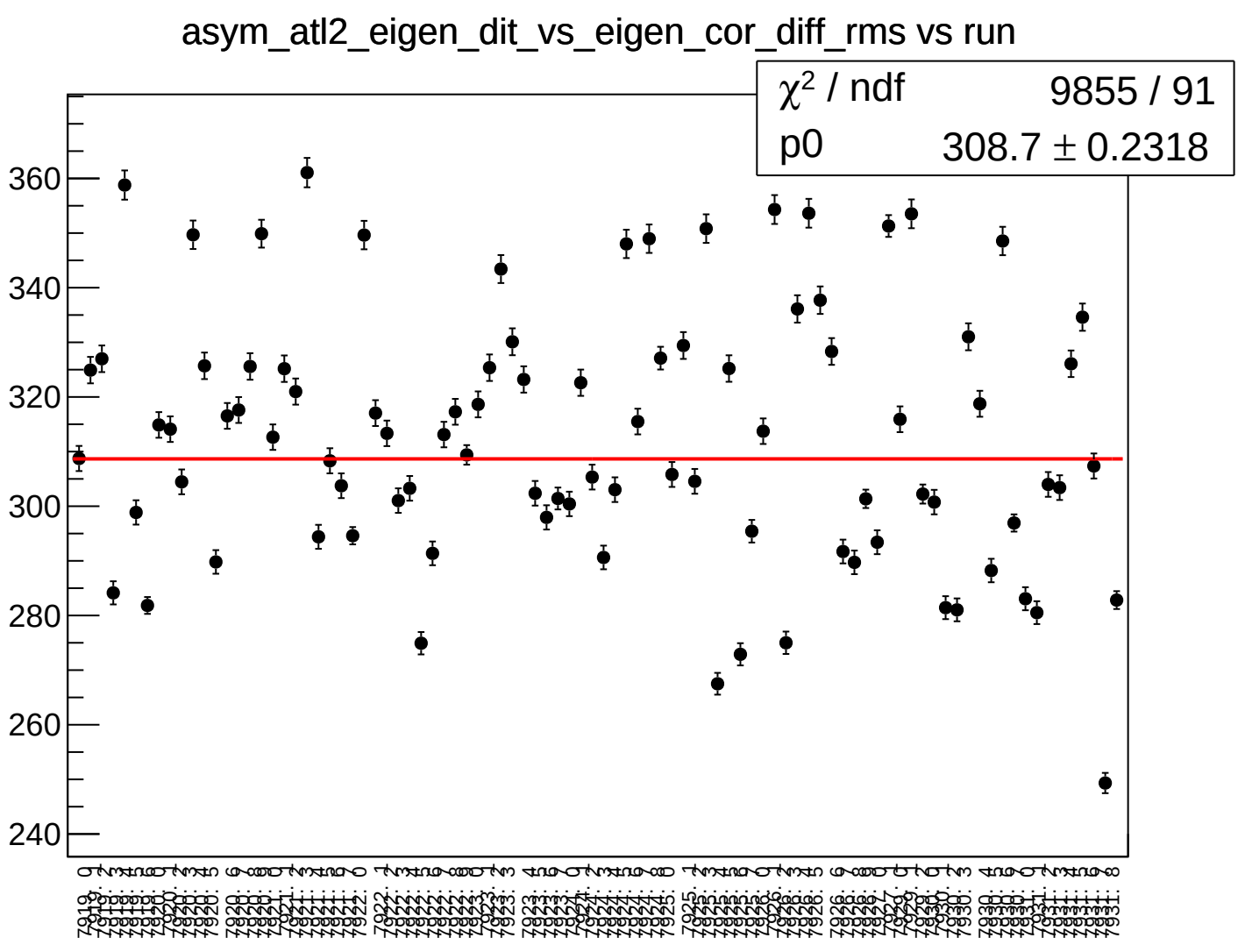

asym_atl2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6550 / 91
p0 0.01427 ± 1.07e−05
0.017
0.016
0.015
0.014
0.013
0.012

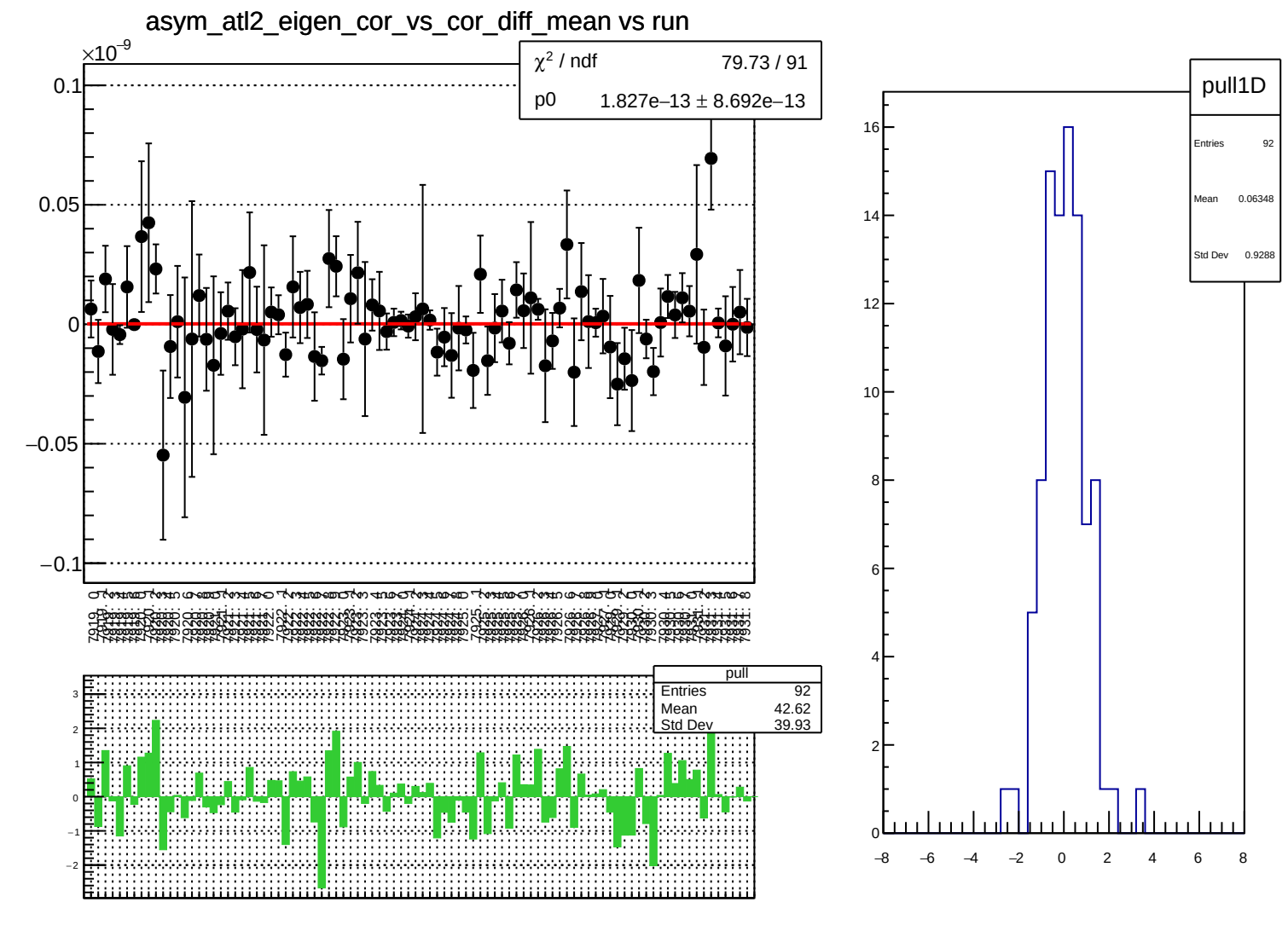

asym_atl2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.75 / 91
p0 −0.2526 ± 0.3278
pull
Entries 92
Mean −63.78
Std Dev 0
pull1D
Entries 92
Mean 0.02783
Std Dev 0.9707

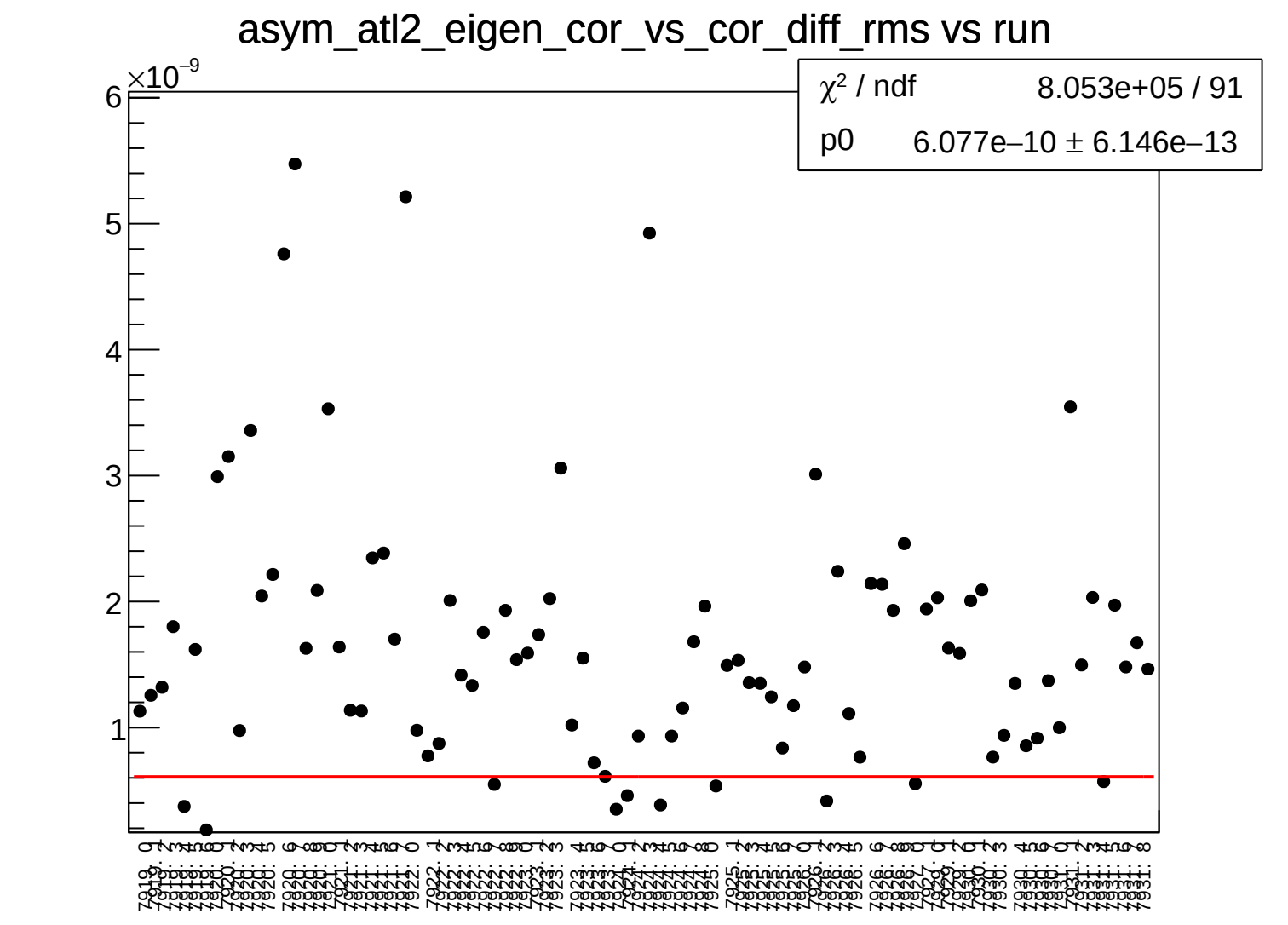

asym_atl2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9855 / 91
p0 308.7 ± 0.2318
360
340
320
300
280
260
240

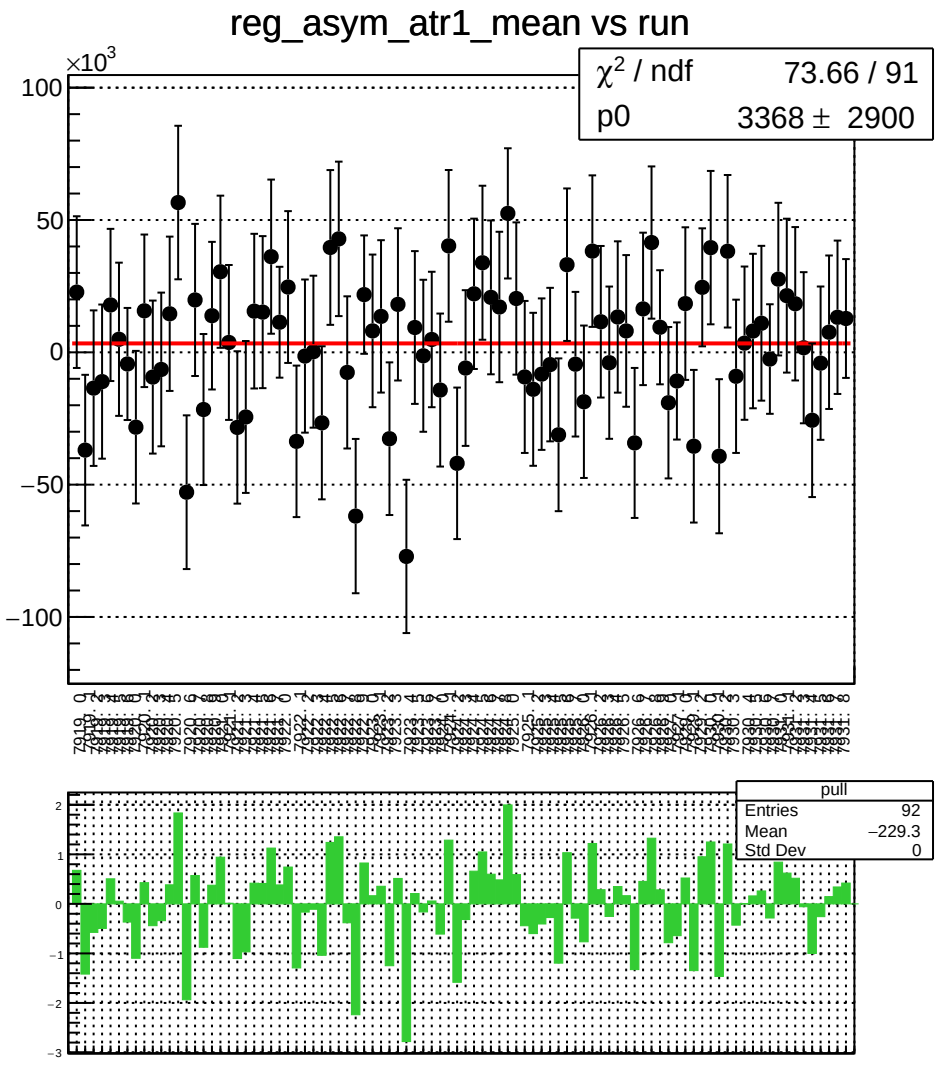

asym_atl2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.75 / 91
p0 −0.2526 ± 0.3278
pull
Entries 92
Mean −63.78
Std Dev 0

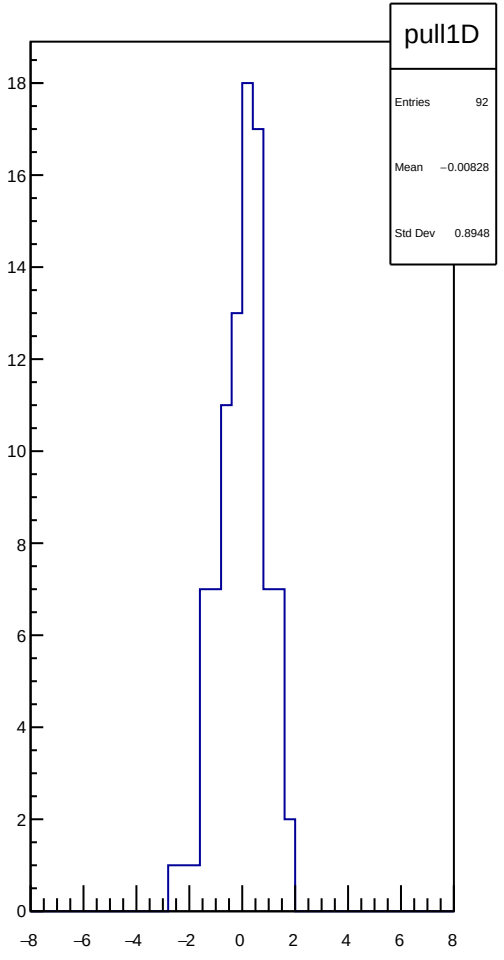

pull1D
Entries 92
Mean 0.02783
Std Dev 0.9707

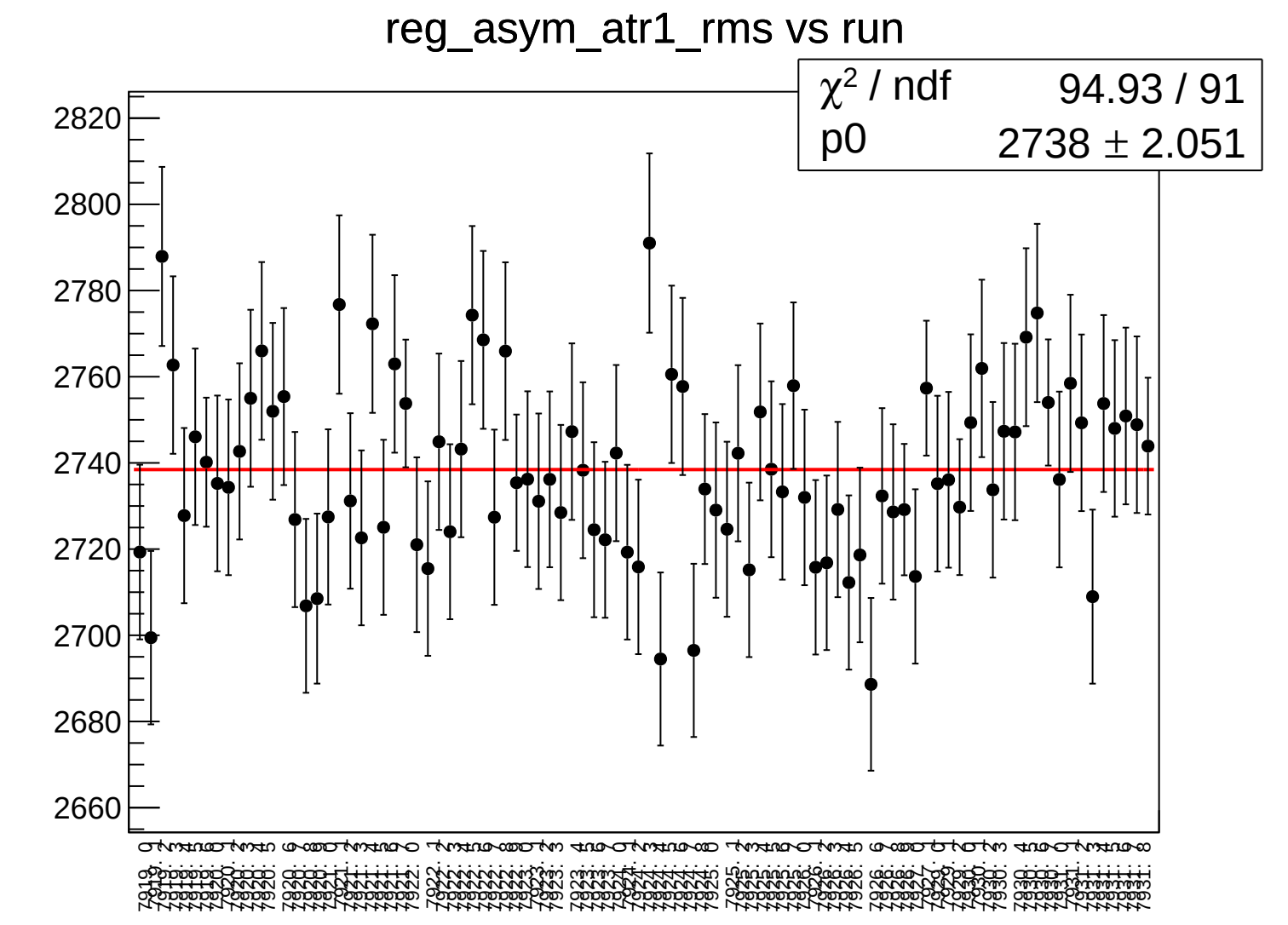

asym_atl2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9855 / 91
p0 308.7 ± 0.2318
360
340
320
300
280
260
240

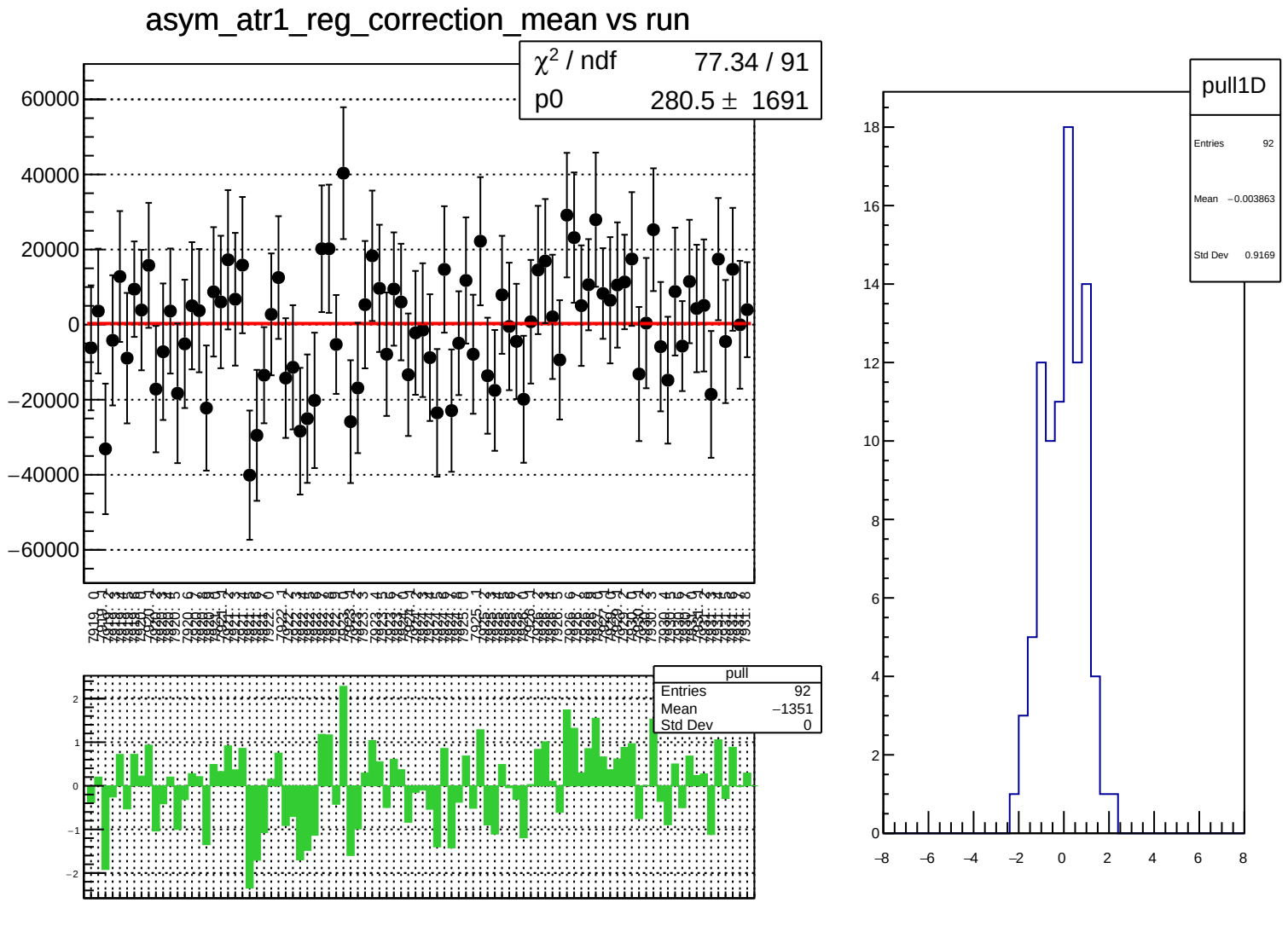

asym_atl2_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 79.73 / 91
p0 1.827e−13 ± 8.692e−13
0.1
0.05
0
−0.05
−0.1
pull
Entries 92
Mean 42.62
Std Dev 39.93
3
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.06348
Std Dev 0.9288
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

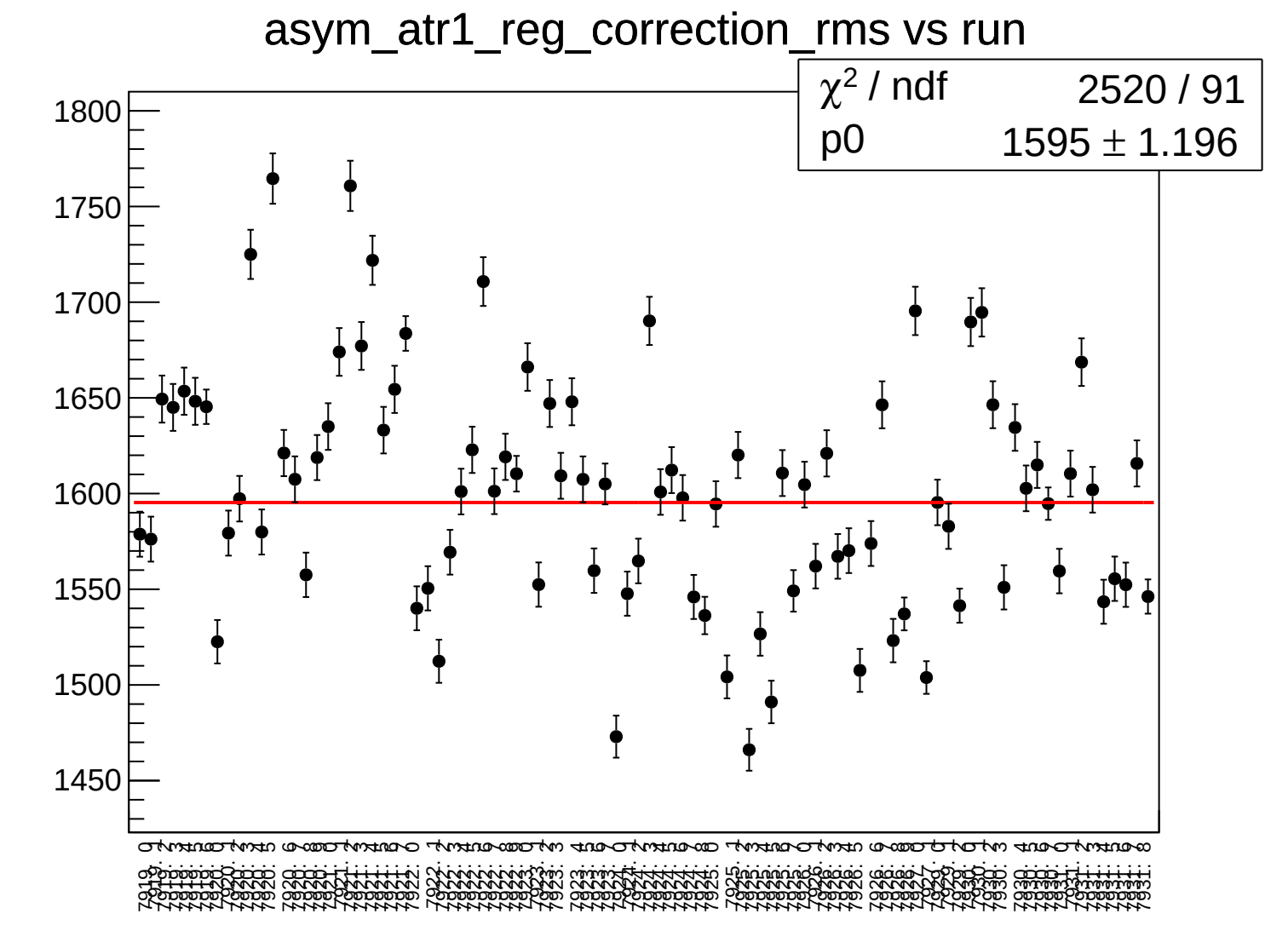

asym_atl2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
6
5
4
3
2
1
χ² / ndf 8.053e+05 / 91
p0 6.077e−10 ± 6.146e−13

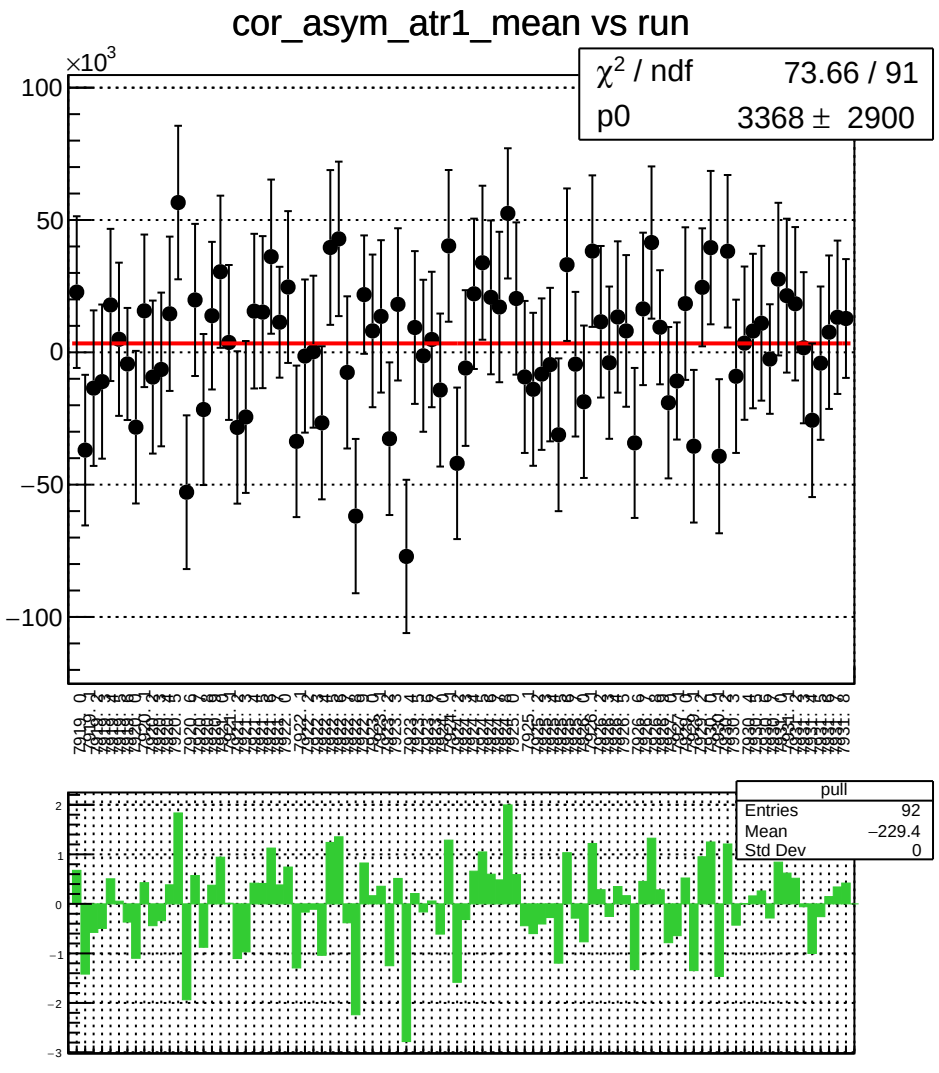

reg_asym_atr1_mean vs run
×10^3
χ^2 / ndf 73.66 / 91
p0 3368 ± 2900
pull
Entries 92
Mean −229.3
Std Dev 0

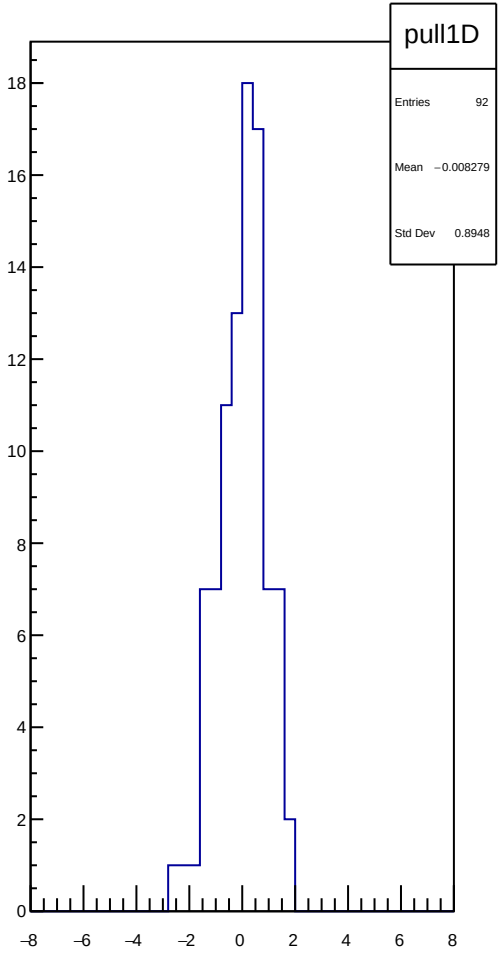

pull1D
Entries 92
Mean −0.00828
Std Dev 0.8948

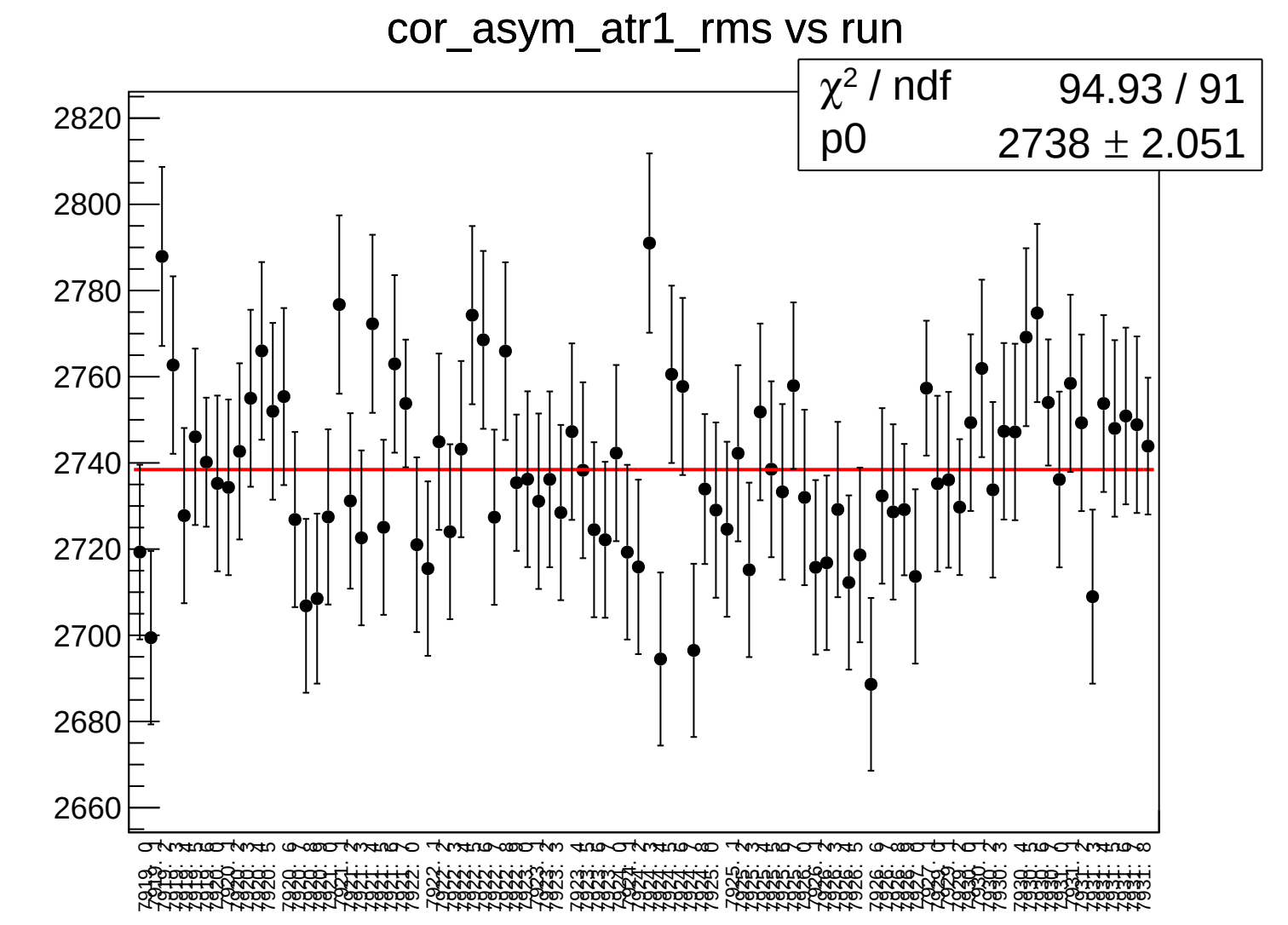

reg_asym_atr1_rms vs run
χ² / ndf 94.93 / 91
p0 2738 ± 2.051
2820
2800
2780
2760
2740
2720
2700
2680
2660

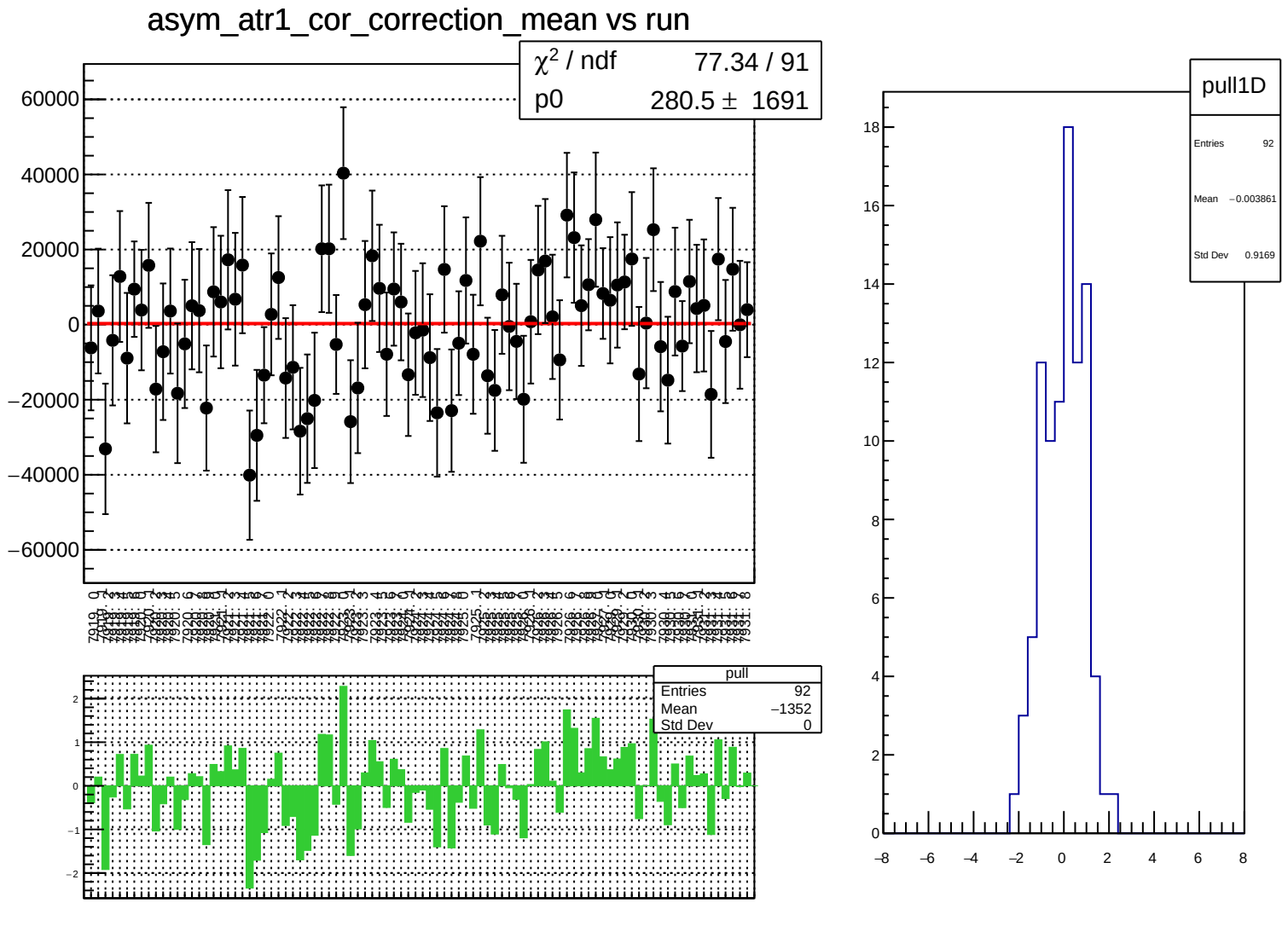

asym_atr1_reg_correction_mean vs run
χ² / ndf 77.34 / 91
p0 280.5 ± 1691
pull
Entries 92
Mean −1351
Std Dev 0
pull1D
Entries 92
Mean −0.003863
Std Dev 0.9169

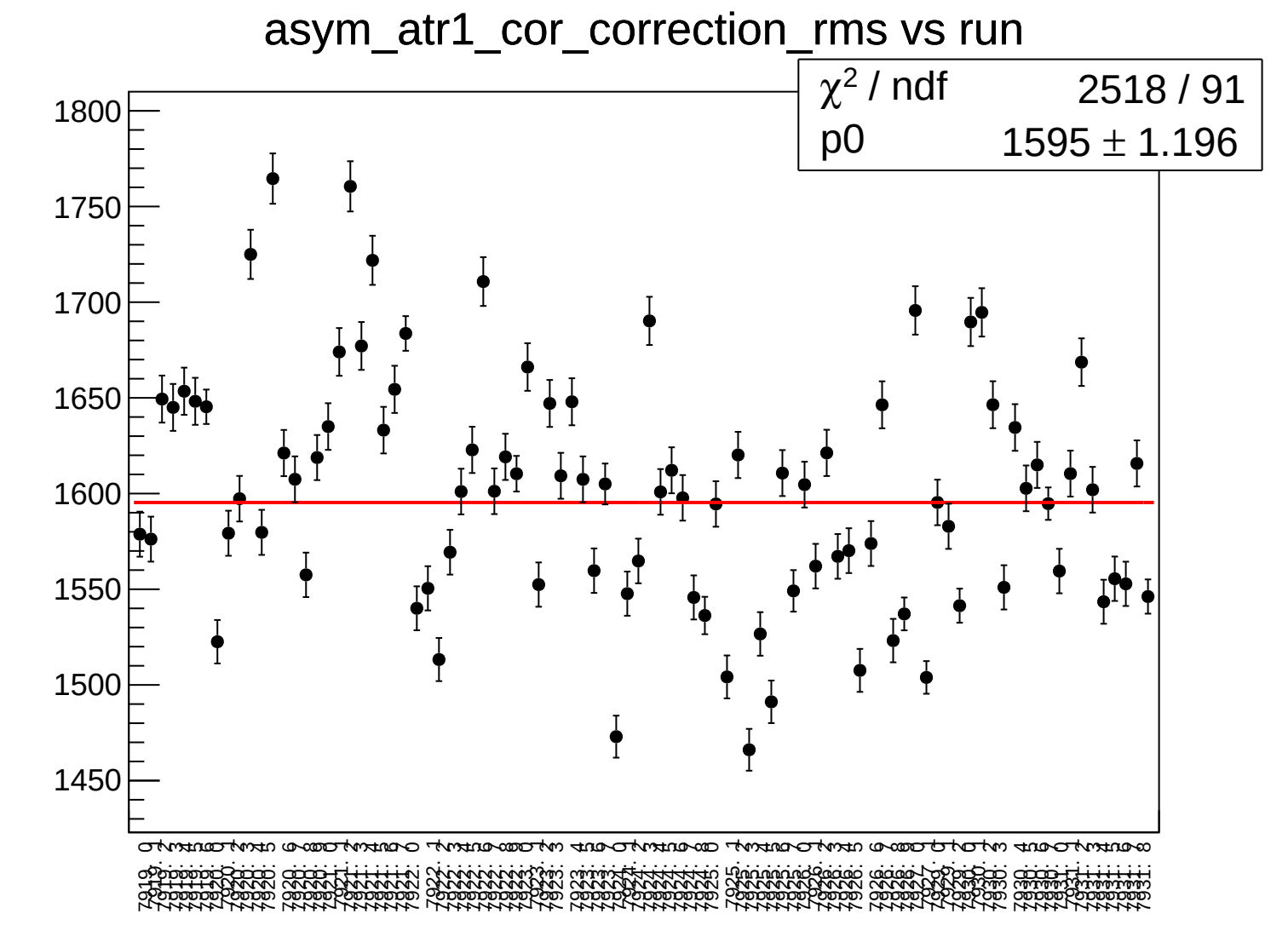

asym_atr1_reg_correction_rms vs run
χ² / ndf 2520 / 91
p0 1595 ± 1.196
1800
1750
1700
1650
1600
1550
1500
1450

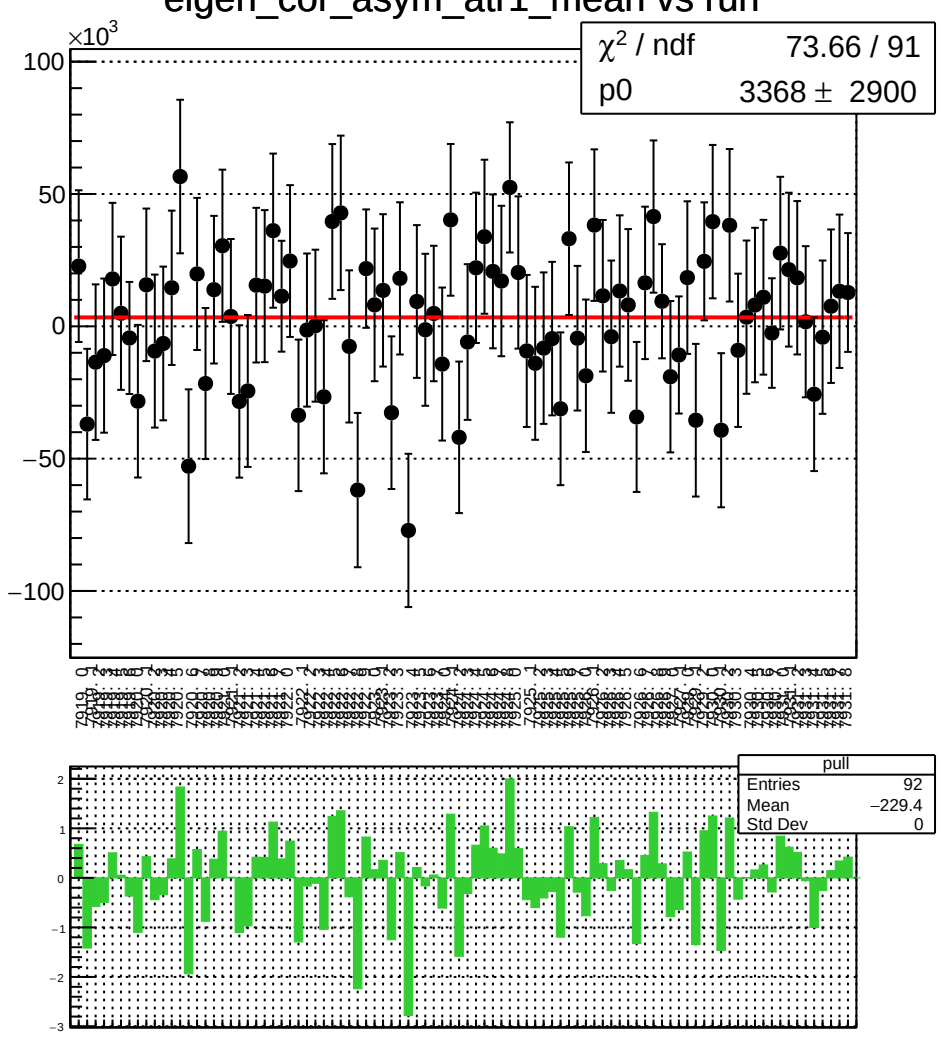

cor_asym_atr1_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 73.66 / 91
p0 3368 ± 2900
pull
Entries 92
Mean −229.4
Std Dev 0
2
1
0
−1
−2
−3

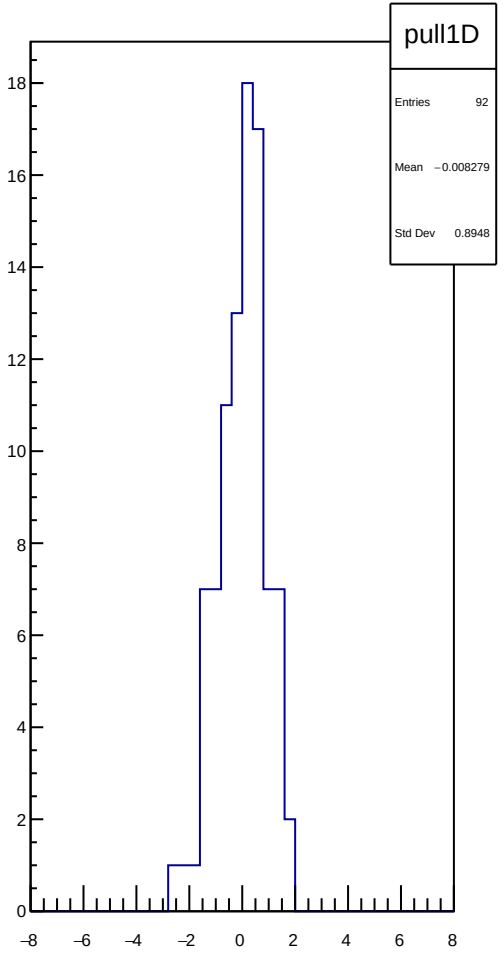

pull1D
Entries 92
Mean −0.008279
Std Dev 0.8948
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

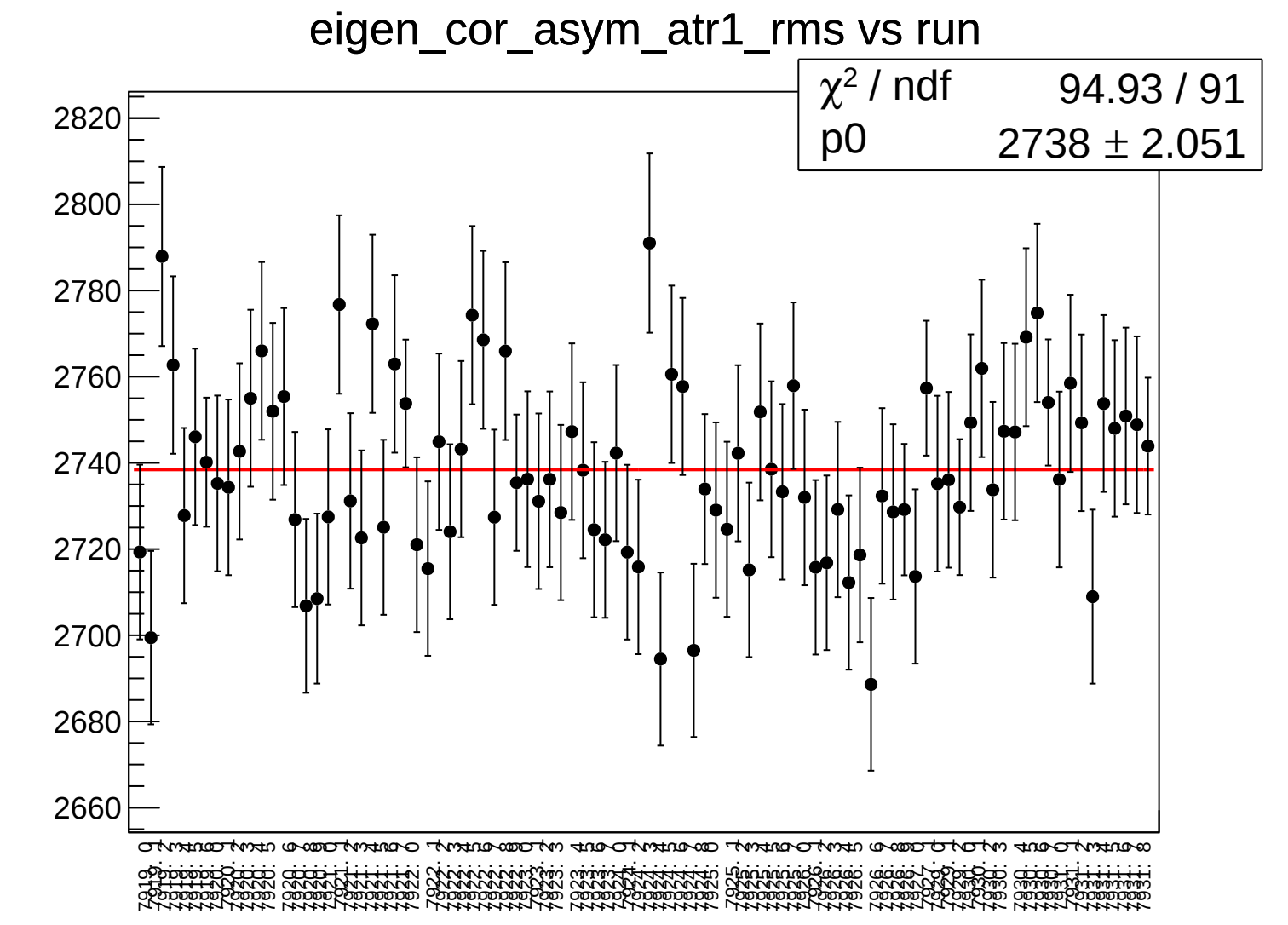

cor_asym_atr1_rms vs run
χ² / ndf 94.93 / 91
p0 2738 ± 2.051
2820
2800
2780
2760
2740
2720
2700
2680
2660

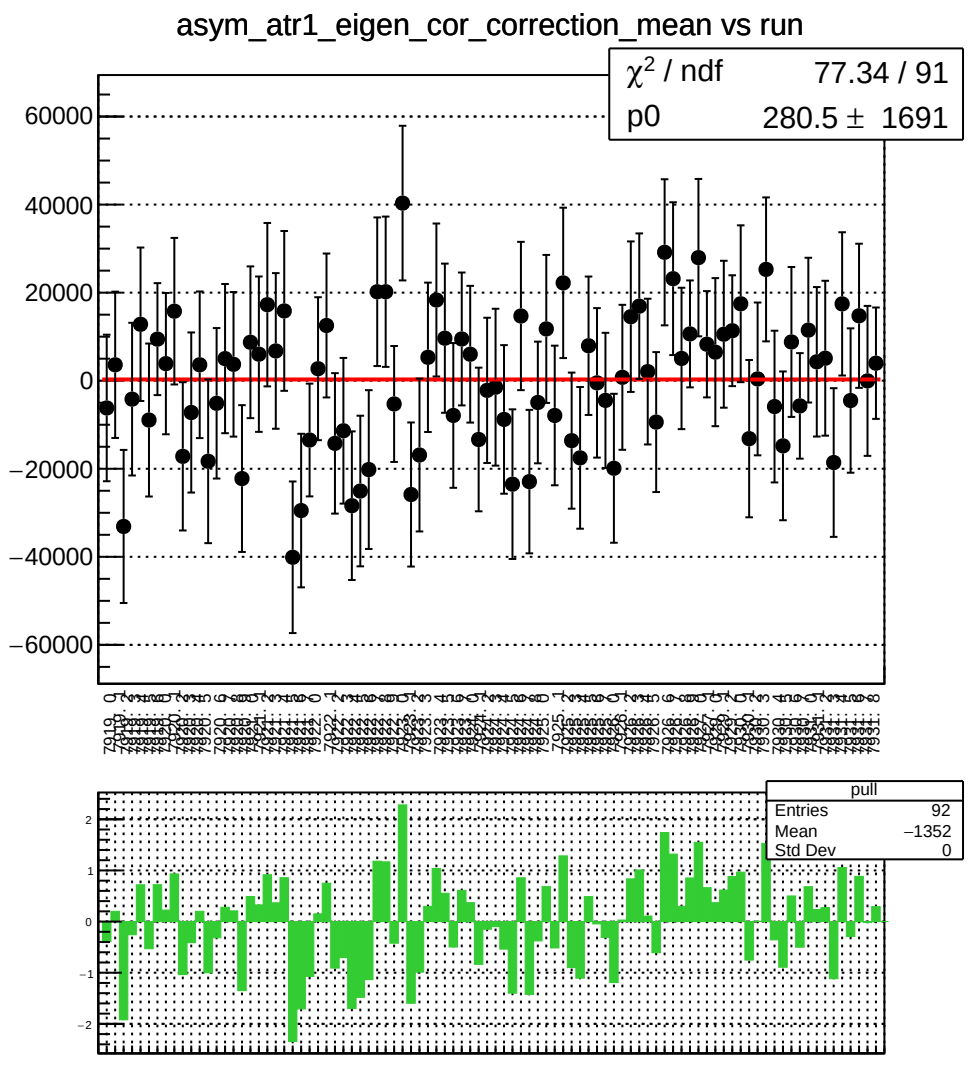

asym_atr1_cor_correction_mean vs run
χ² / ndf 77.34 / 91
p0 280.5 ± 1691
pull
Entries 92
Mean −1352
Std Dev 0
pull1D
Entries 92
Mean −0.003861
Std Dev 0.9169

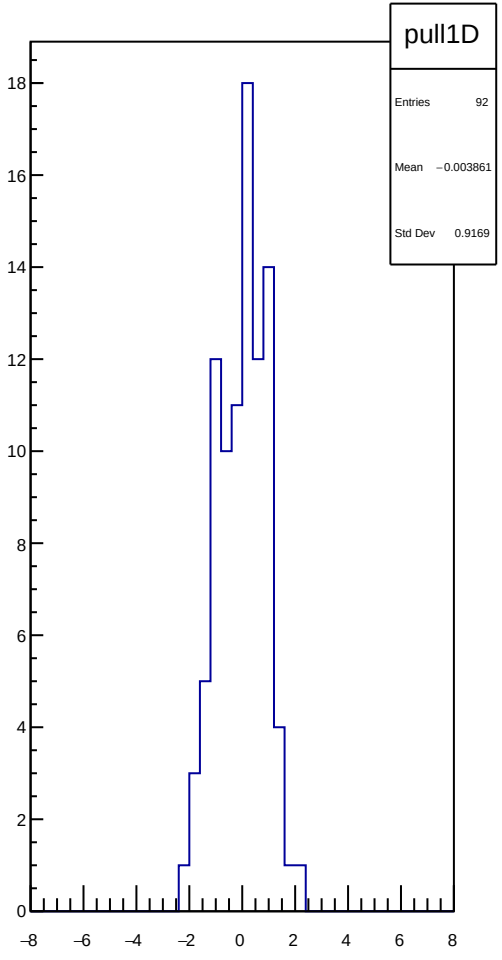

asym_atr1_cor_correction_rms vs run
χ² / ndf 2518 / 91
p0 1595 ± 1.196
1800
1750
1700
1650
1600
1550
1500
1450

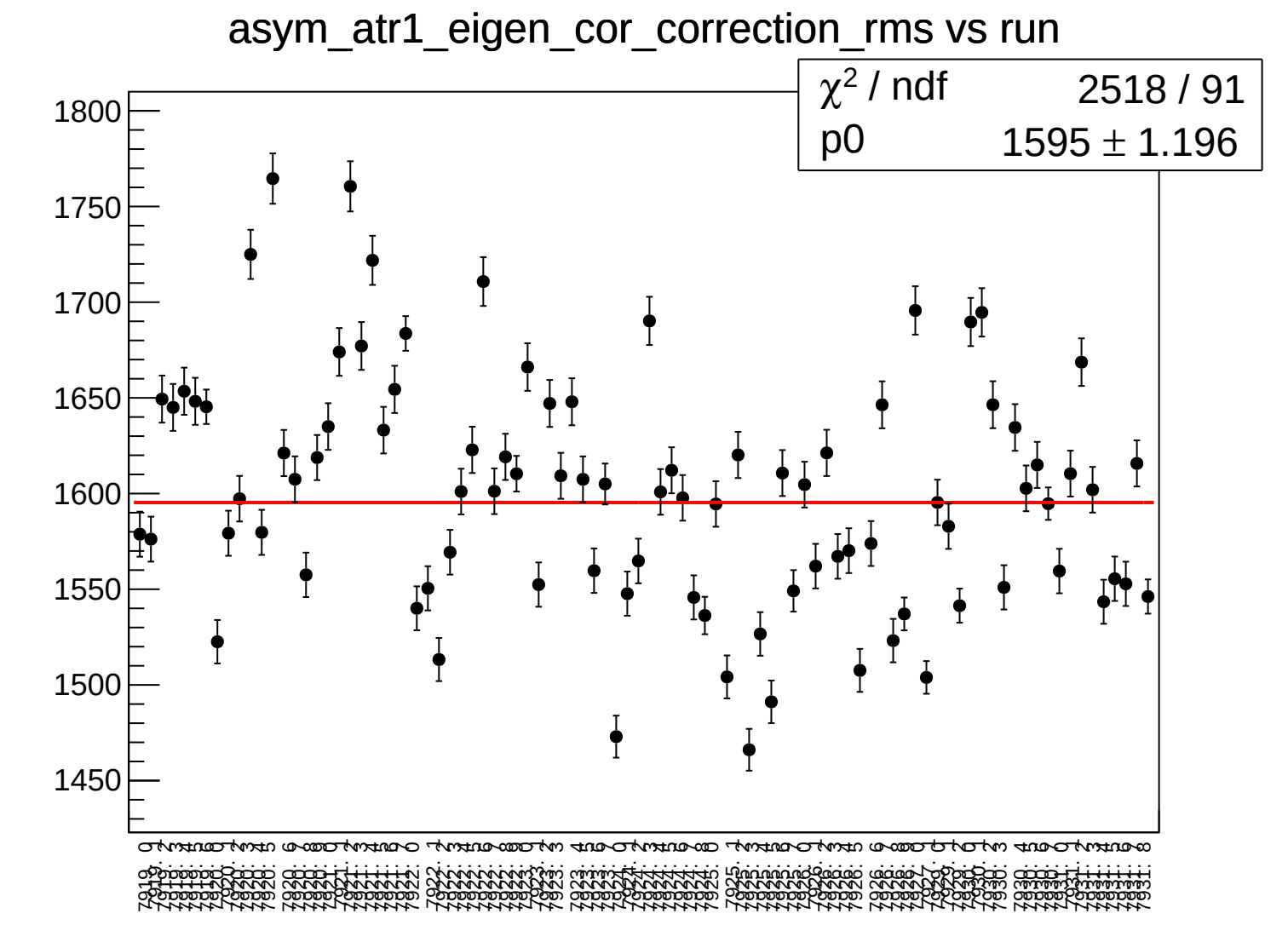

eigen_cor_asym_atr1_mean vs run
×10^3
χ² / ndf 73.66 / 91
p0 3368 ± 2900
pull
Entries 92
Mean −229.4
Std Dev 0

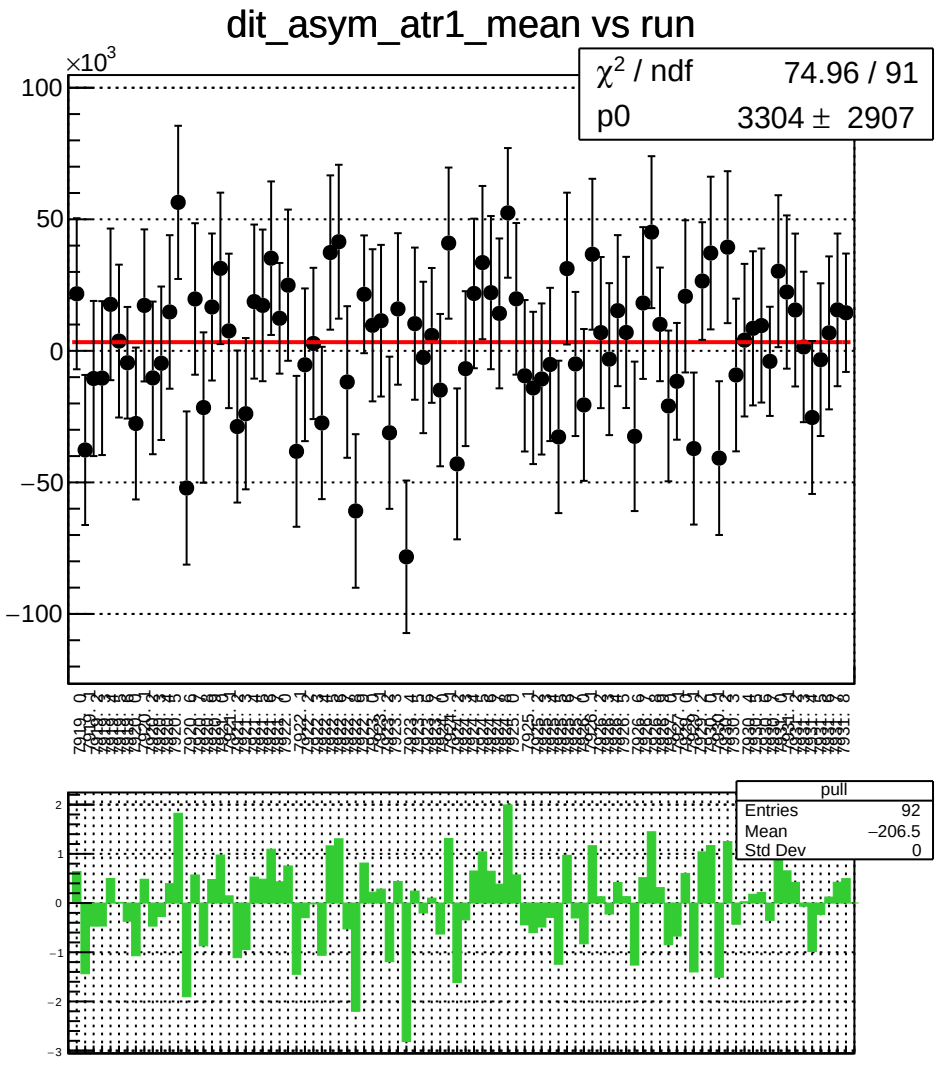

pull1D
Entries 92
Mean −0.008279
Std Dev 0.8948

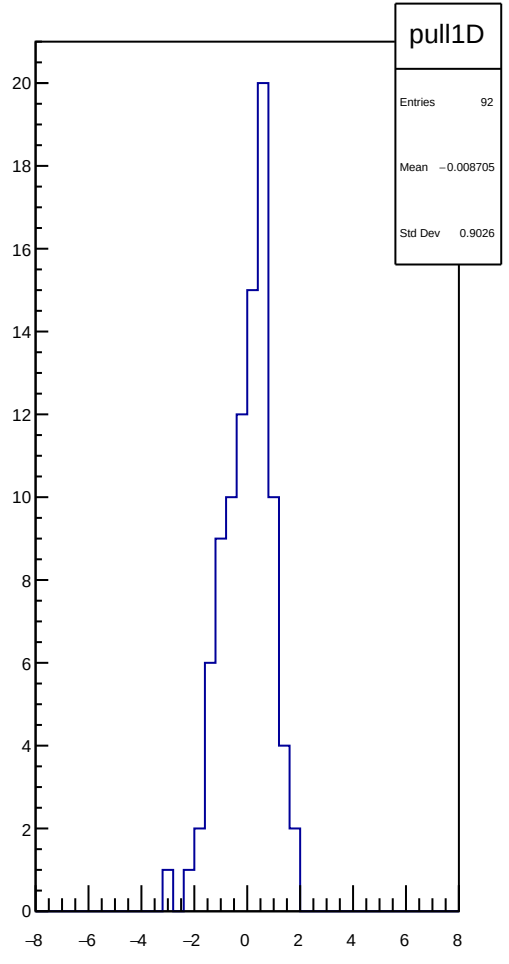

eigen_cor_asym_atr1_rms vs run
χ² / ndf 94.93 / 91
p0 2738 ± 2.051
2820
2800
2780
2760
2740
2720
2700
2680
2660

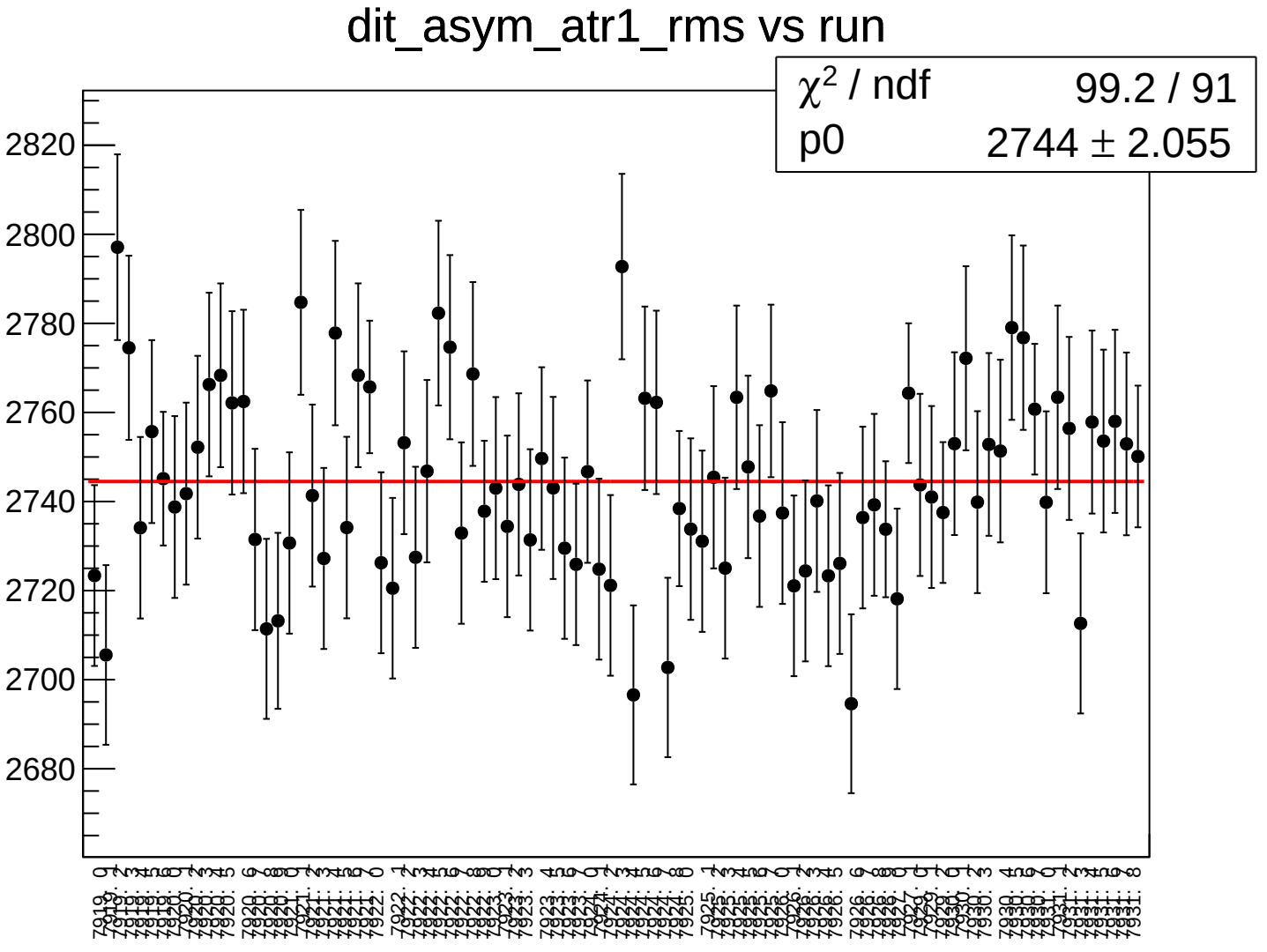

asym_atr1_eigen_cor_correction_mean vs run
χ² / ndf 77.34 / 91
p0 280.5 ± 1691
pull
Entries 92
Mean −1352
Std Dev 0

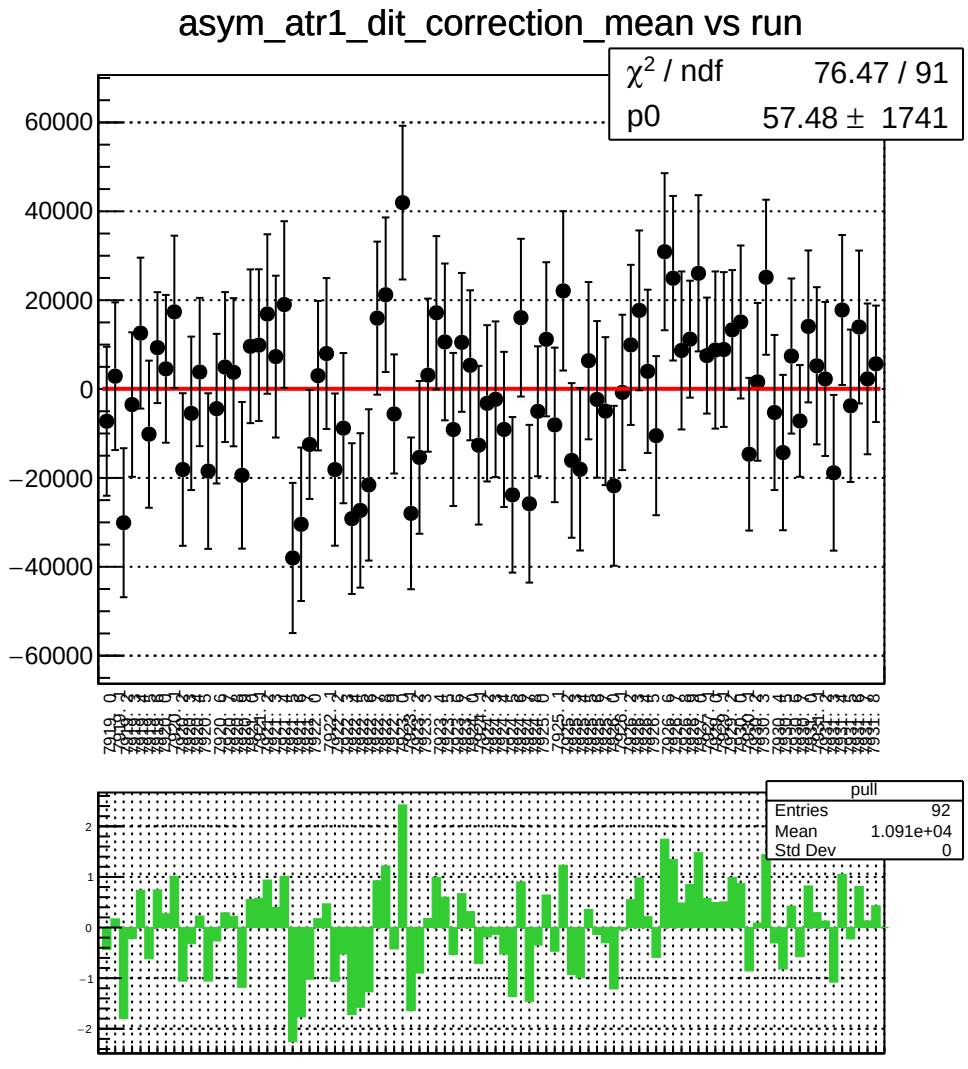

pull1D
Entries 92
Mean −0.003861
Std Dev 0.9169

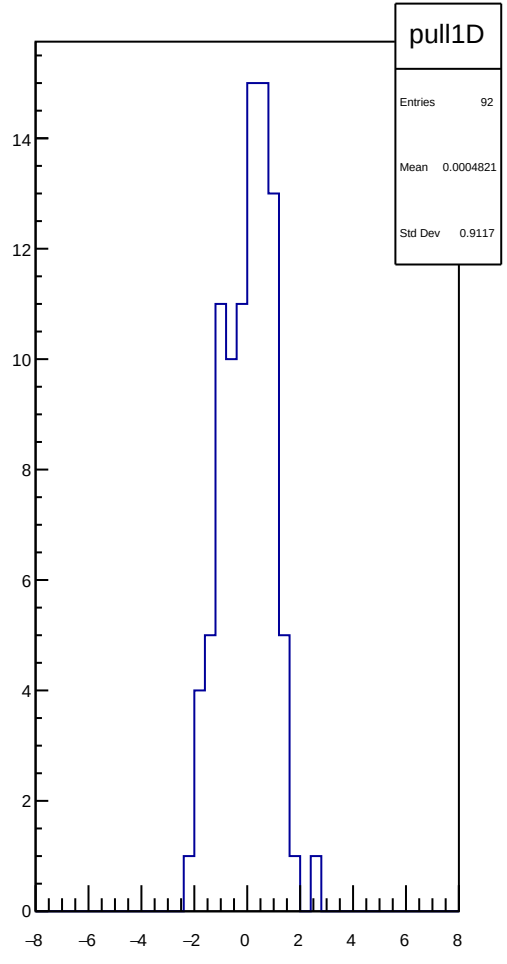

asym_atr1_eigen_cor_correction_rms vs run
χ² / ndf 2518 / 91
p0 1595 ± 1.196
1800
1750
1700
1650
1600
1550
1500
1450

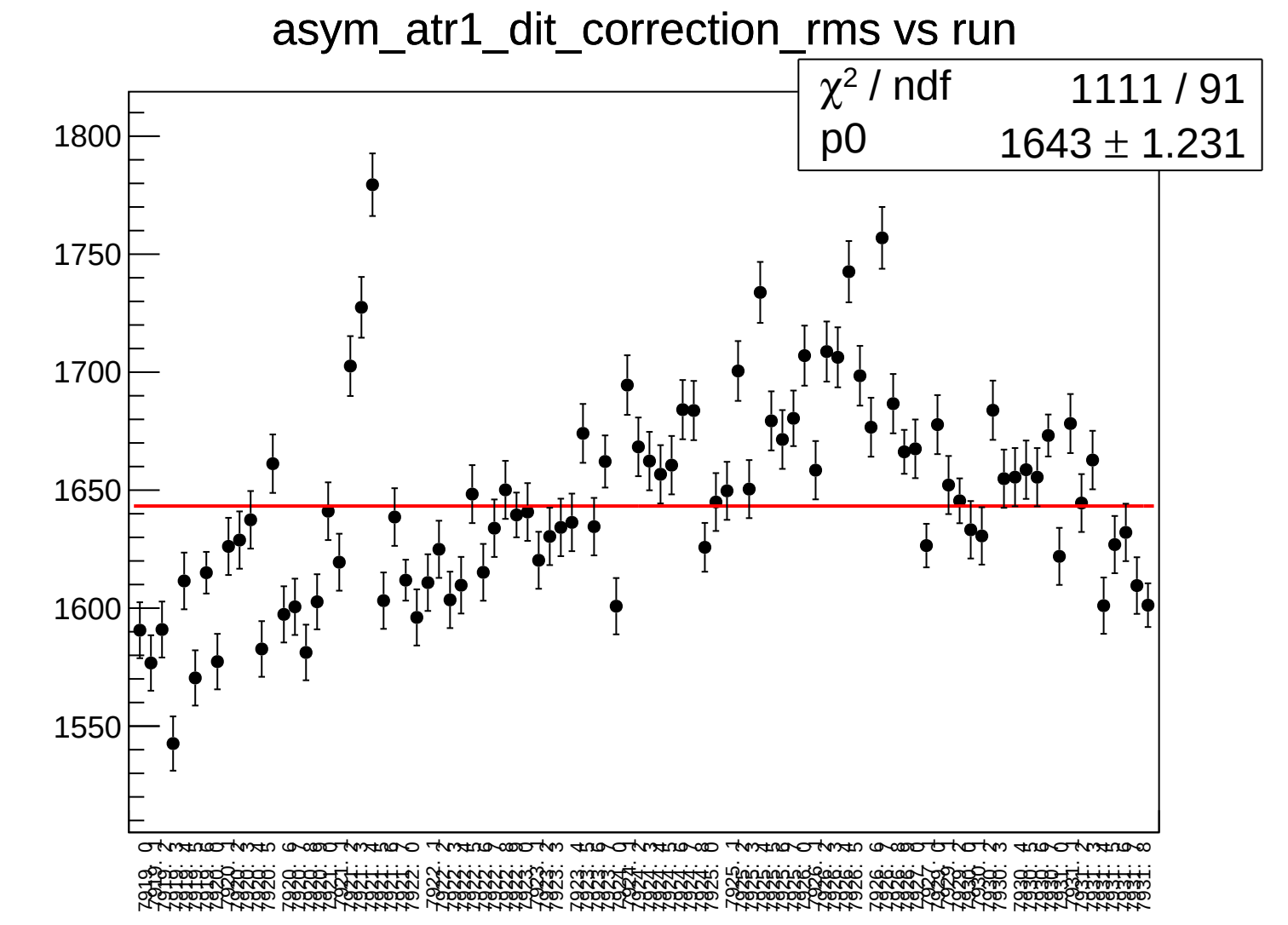

dit_asym_atr1_mean vs run
×10^3
χ² / ndf 74.96 / 91
p0 3304 ± 2907
pull
Entries 92
Mean −206.5
Std Dev 0

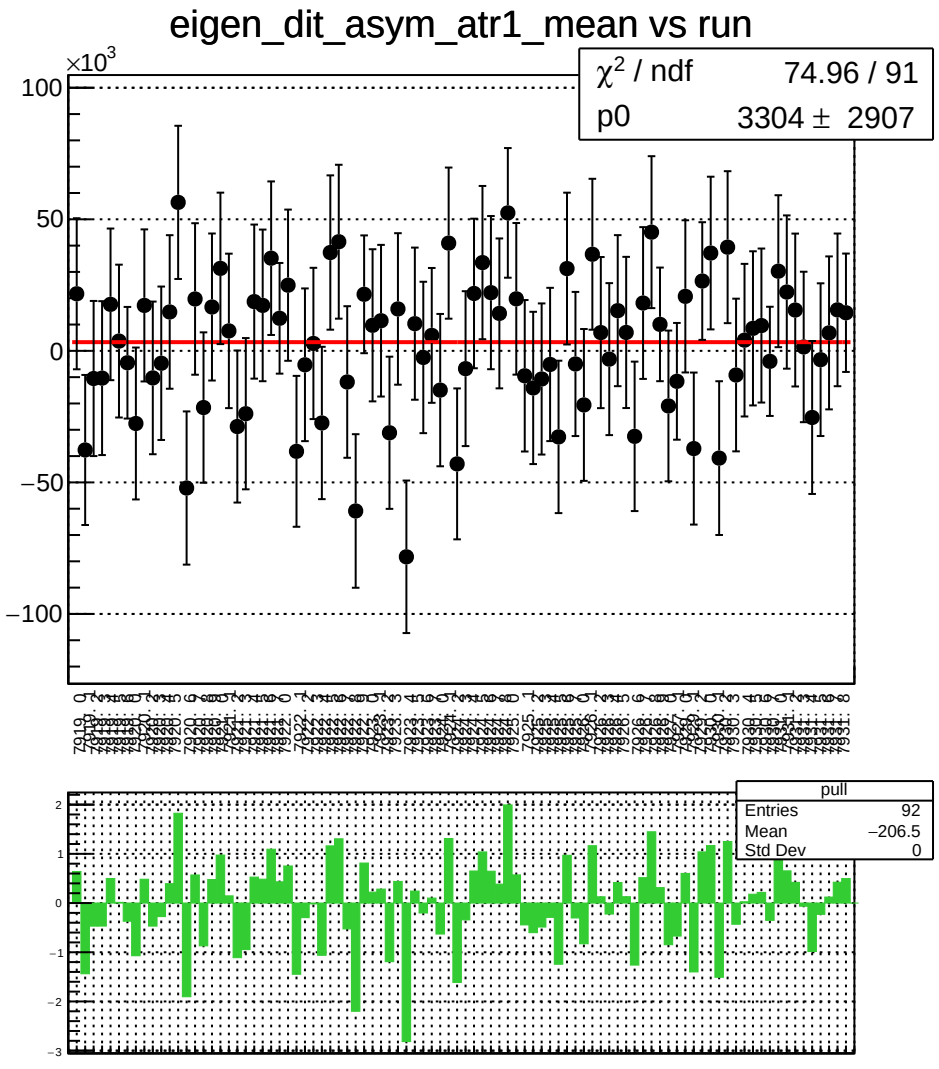

pull1D
Entries 92
Mean −0.008705
Std Dev 0.9026

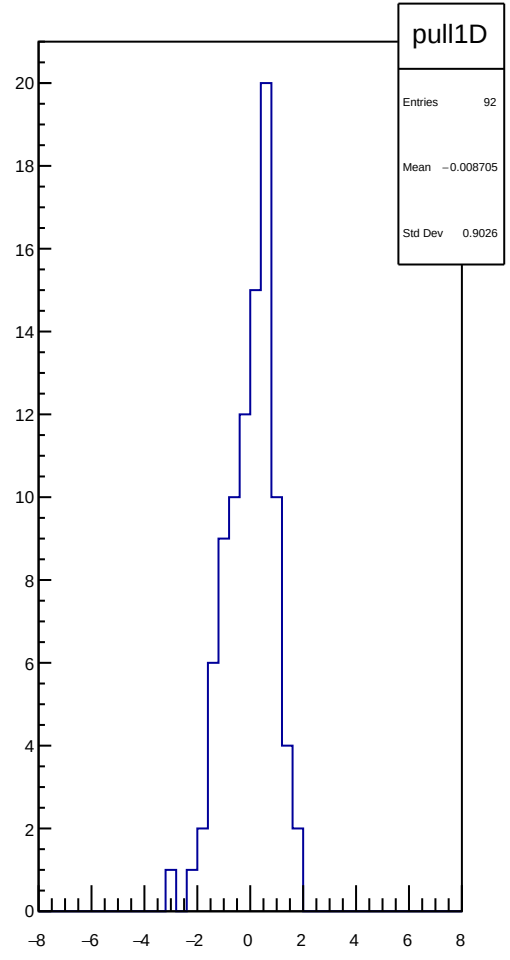

dit_asym_atr1_rms vs run
χ^2 / ndf 99.2 / 91
p0 2744 ± 2.055
2820
2800
2780
2760
2740
2720
2700
2680

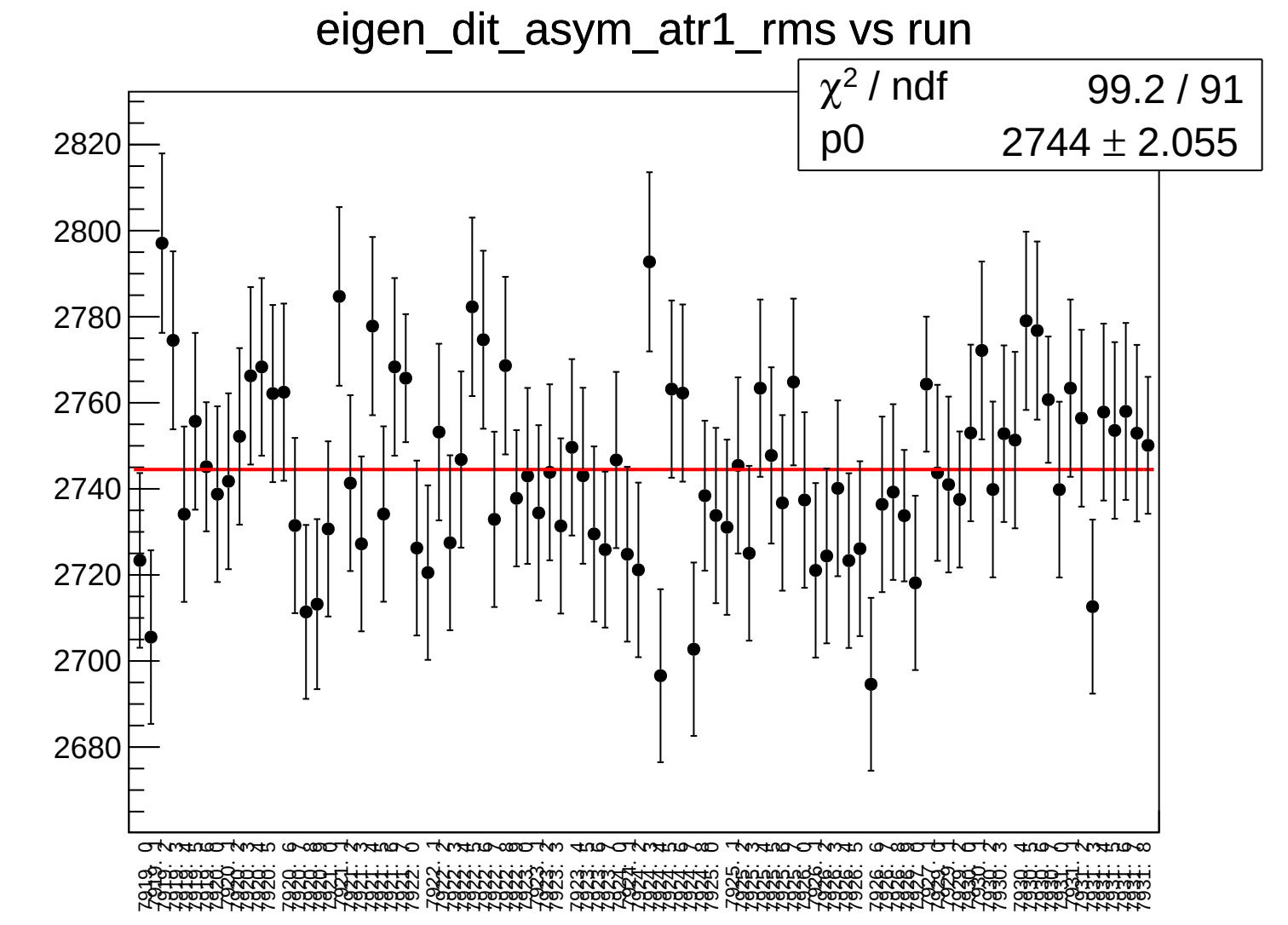

asym_atr1_dit_correction_mean vs run
χ² / ndf 76.47 / 91
p0 57.48 ± 1741
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 1.091e+04
Std Dev 0
2
1
0
−1
−2

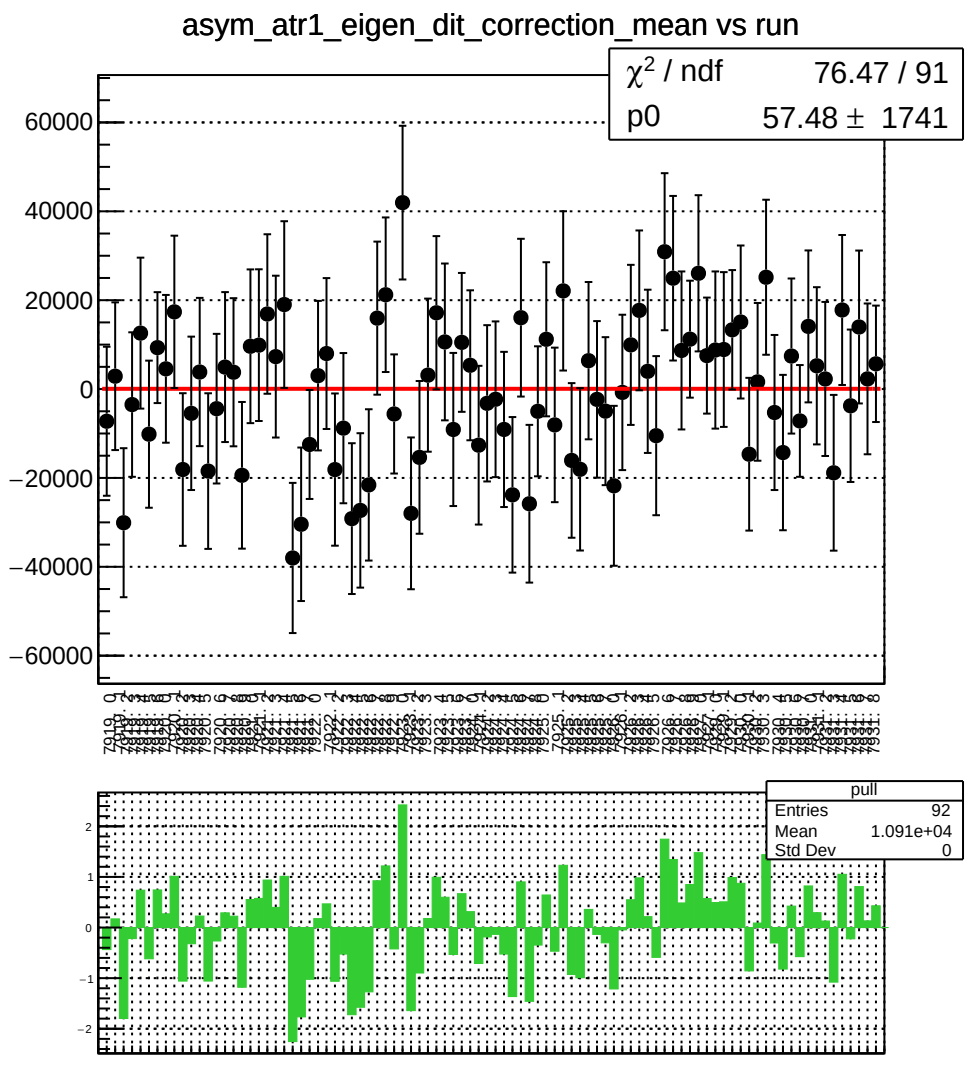

pull1D
Entries 92
Mean 0.0004821
Std Dev 0.9117
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

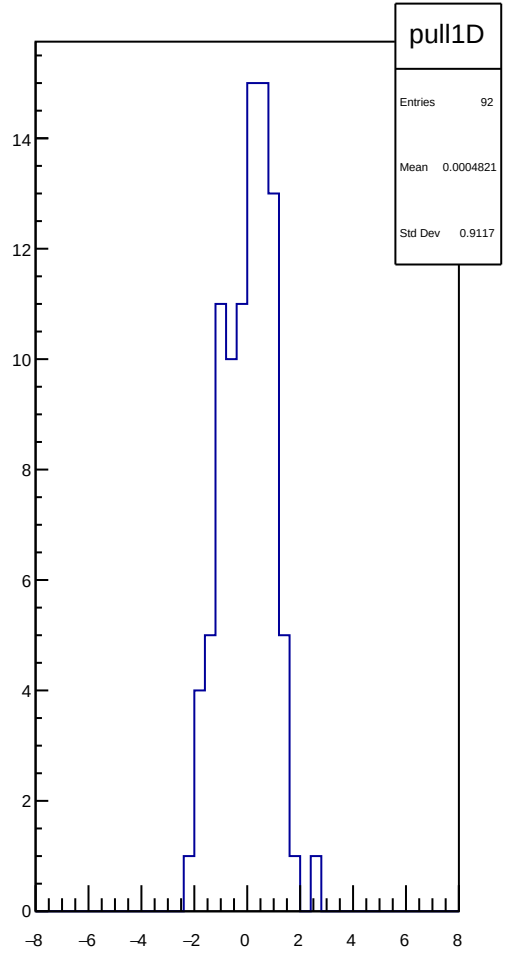

asym_atr1_dit_correction_rms vs run
χ² / ndf 1111 / 91
p0 1643 ± 1.231
1800
1750
1700
1650
1600
1550

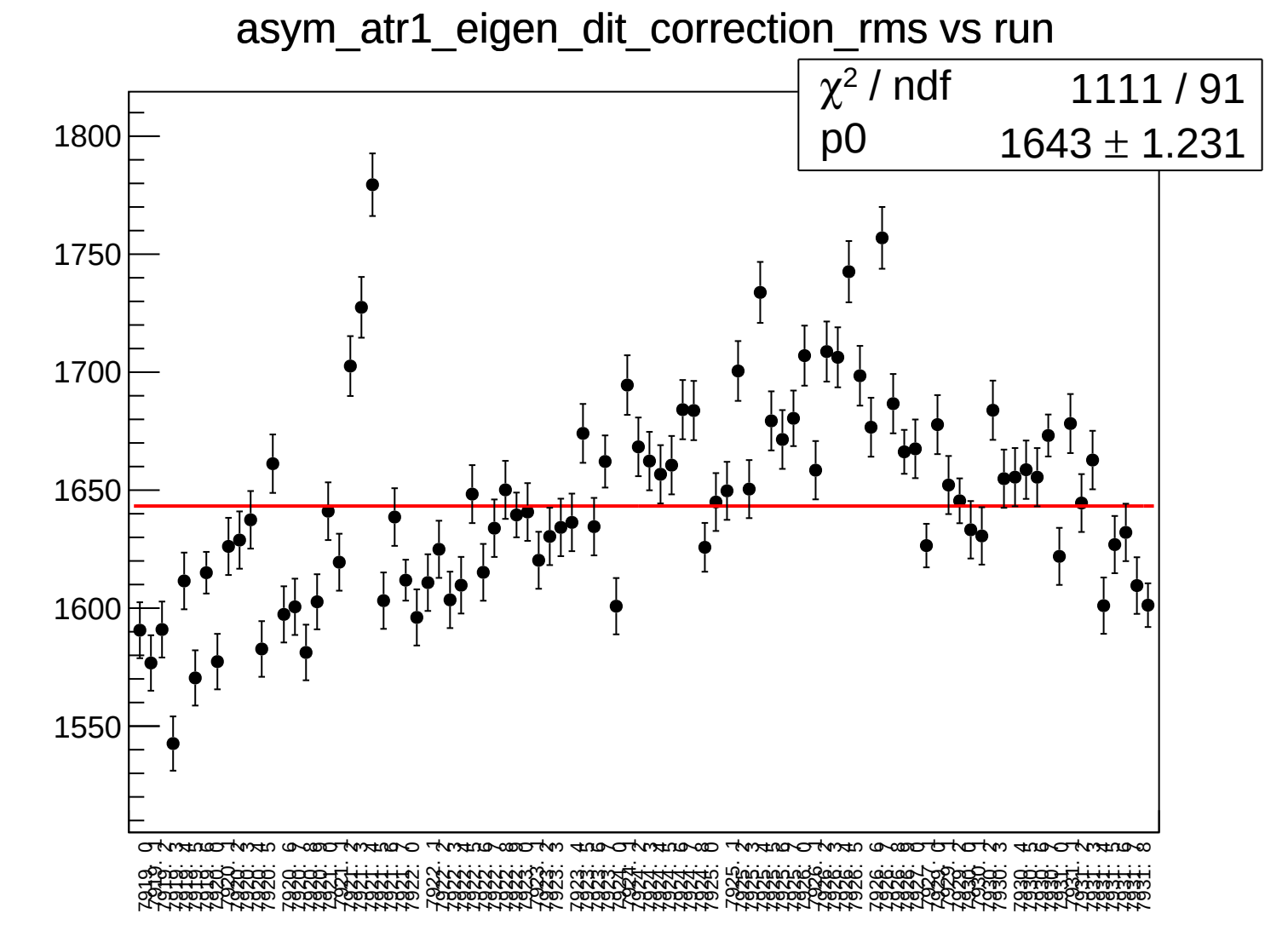

eigen_dit_asym_atr1_mean vs run
×10^3
χ² / ndf 74.96 / 91
p0 3304 ± 2907
pull
Entries 92
Mean −206.5
Std Dev 0

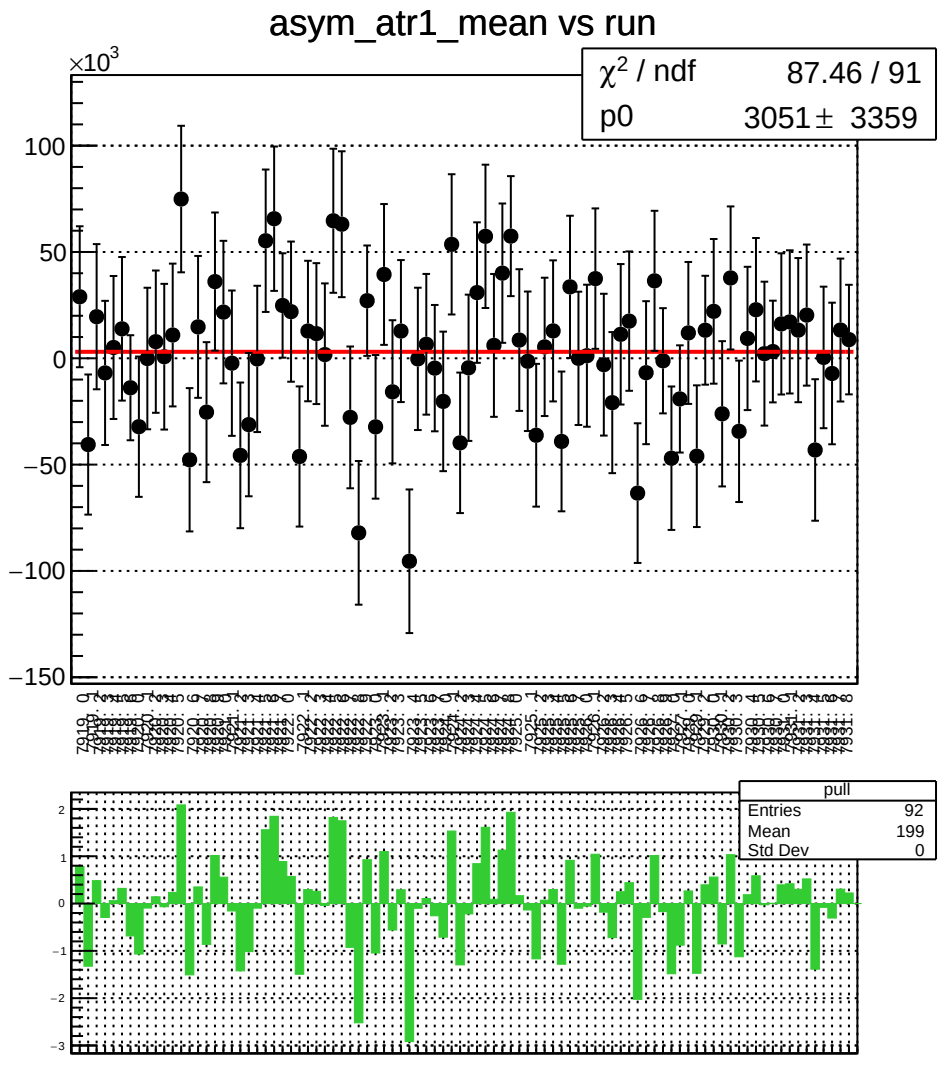

pull1D
Entries 92
Mean −0.008705
Std Dev 0.9026

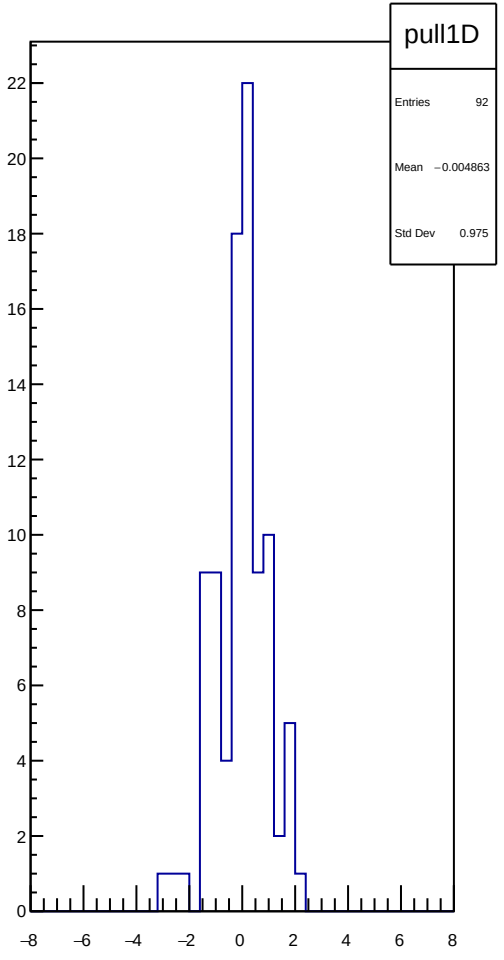

eigen_dit_asym_atr1_rms vs run
χ^2 / ndf 99.2 / 91
p0 2744 ± 2.055
2820
2800
2780
2760
2740
2720
2700
2680

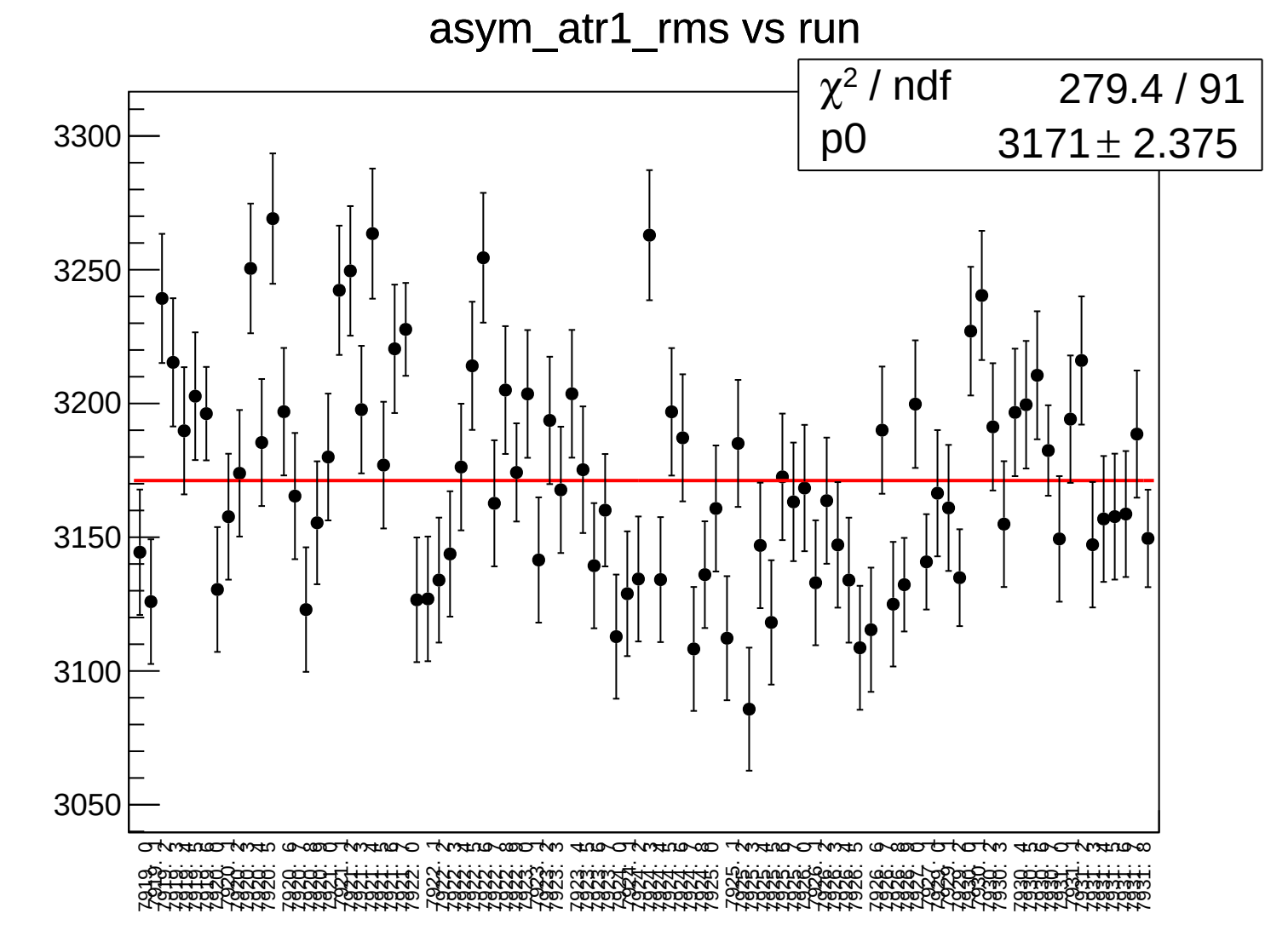

asym_atr1_eigen_dit_correction_mean vs run
χ² / ndf 76.47 / 91
p0 57.48 ± 1741
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 1.091e+04
Std Dev 0
2
1
0
−1
−2

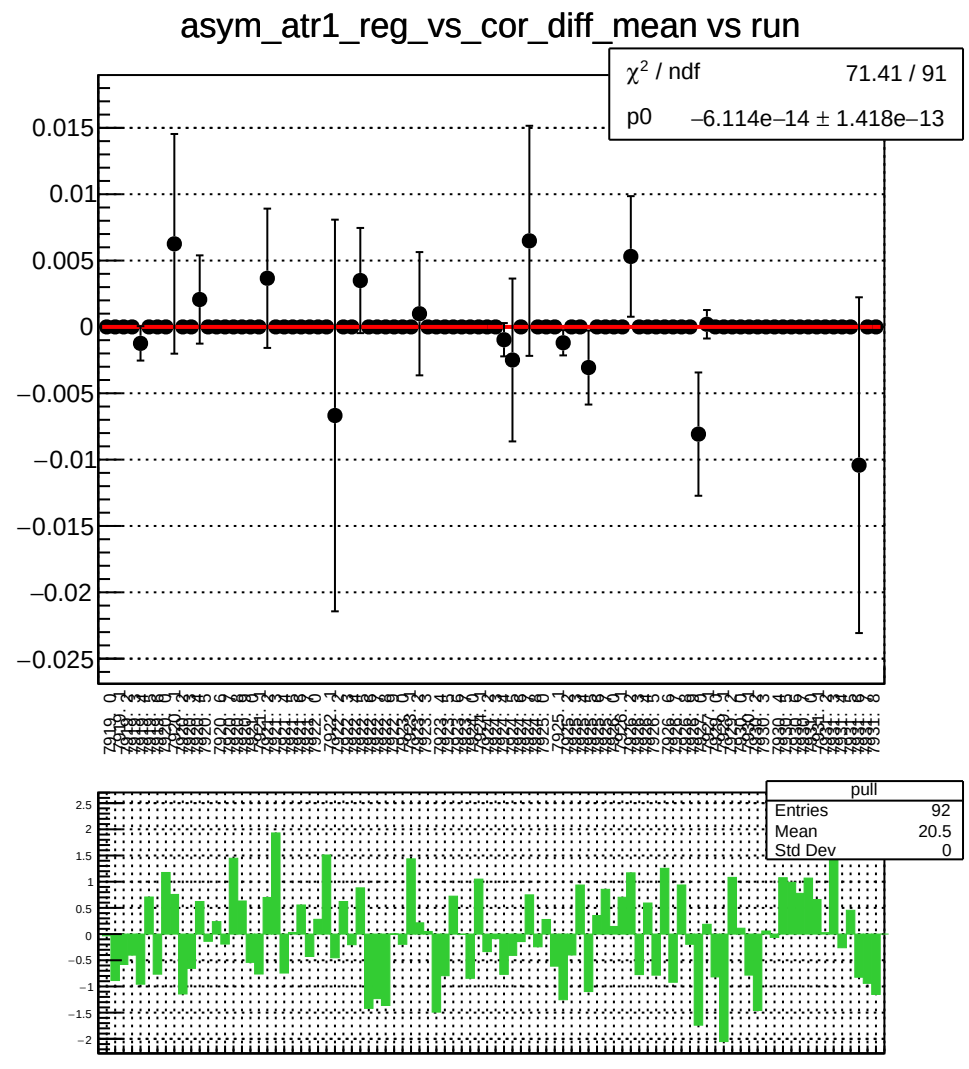

pull1D
Entries 92
Mean 0.0004821
Std Dev 0.9117
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

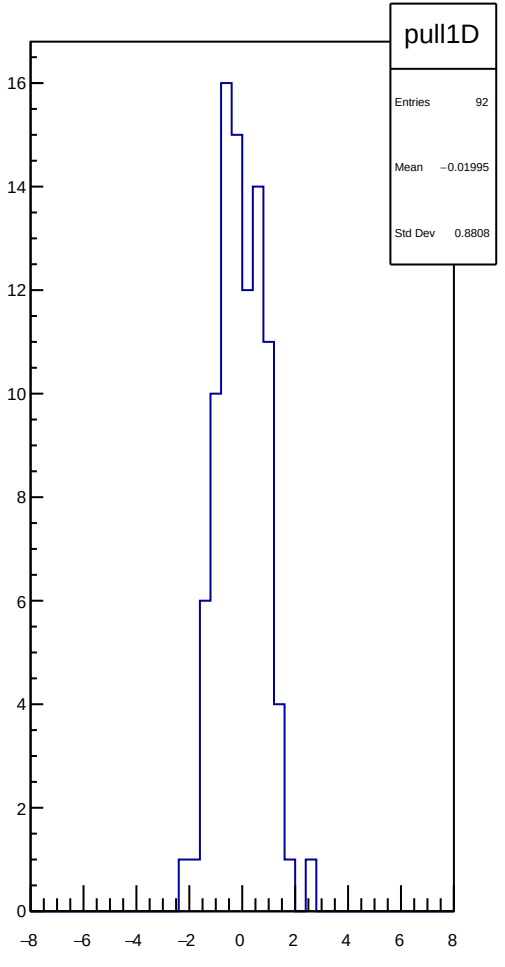

asym_atr1_eigen_dit_correction_rms vs run
χ² / ndf 1111 / 91
p0 1643 ± 1.231
1800
1750
1700
1650
1600
1550

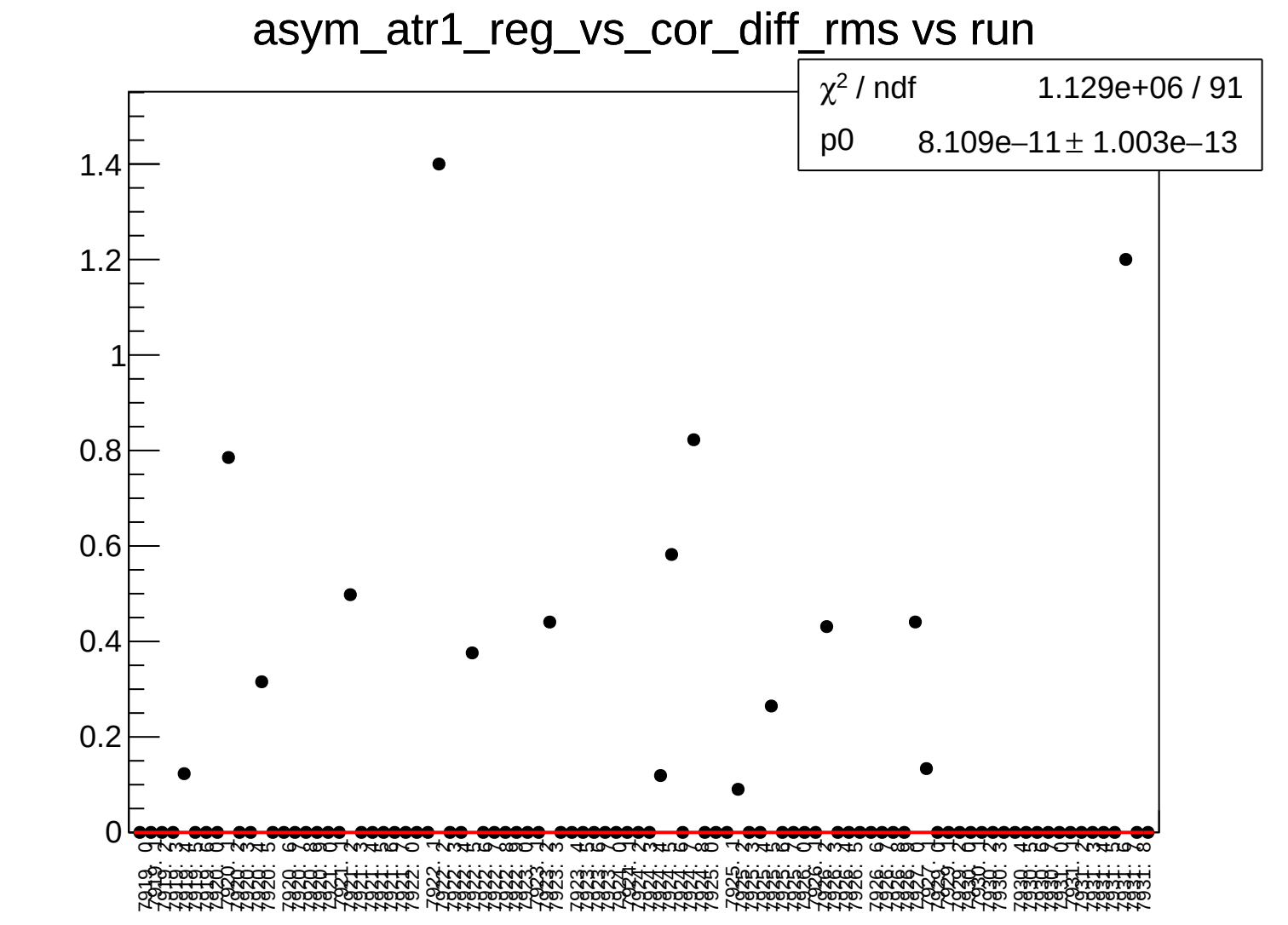

asym_atr1_mean vs run
×10^3
χ² / ndf 87.46 / 91
p0 3051 ± 3359
100
50
0
−50
−100
−150
pull
Entries 92
Mean 199
Std Dev 0
2
1
0
−1
−2
−3

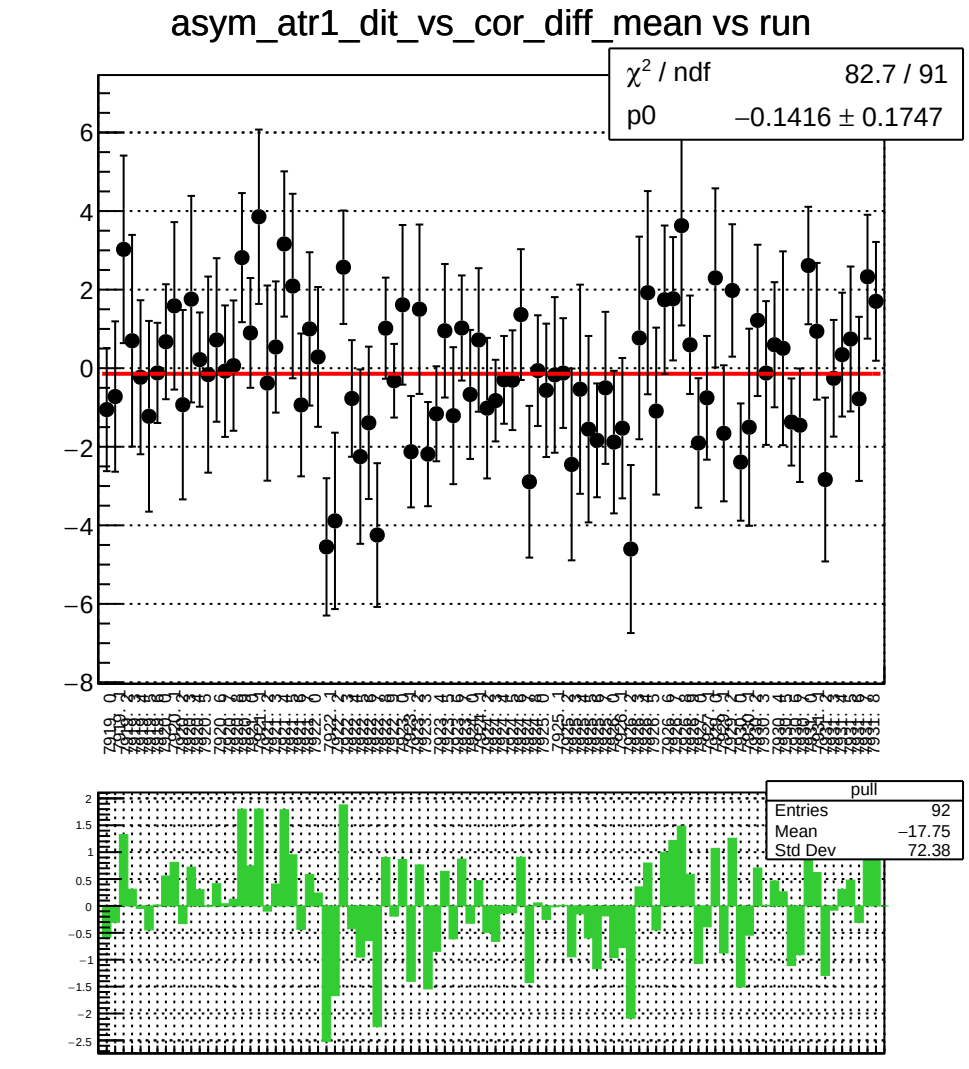

pull1D
Entries 92
Mean −0.004863
Std Dev 0.975
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

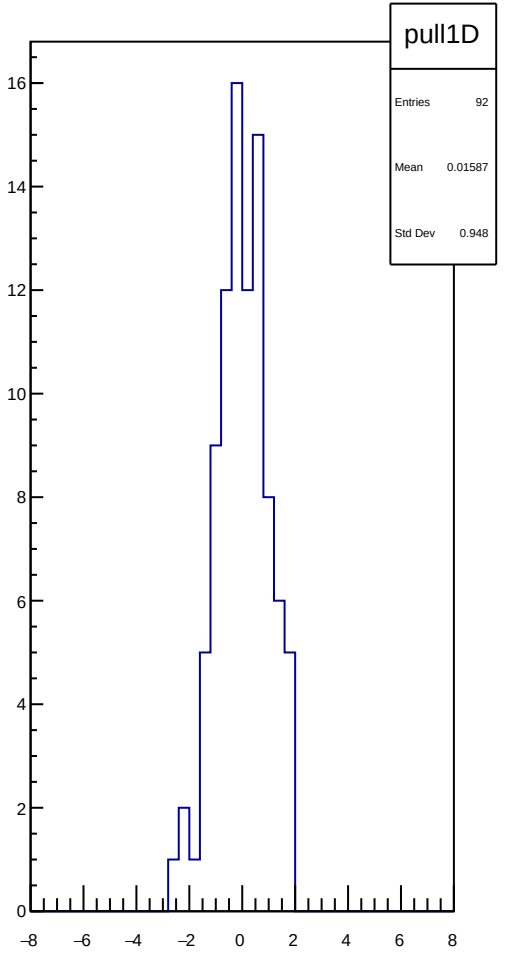

asym_atr1_rms vs run
χ^2 / ndf 279.4 / 91
p0 3171 ± 2.375
3300
3250
3200
3150
3100
3050

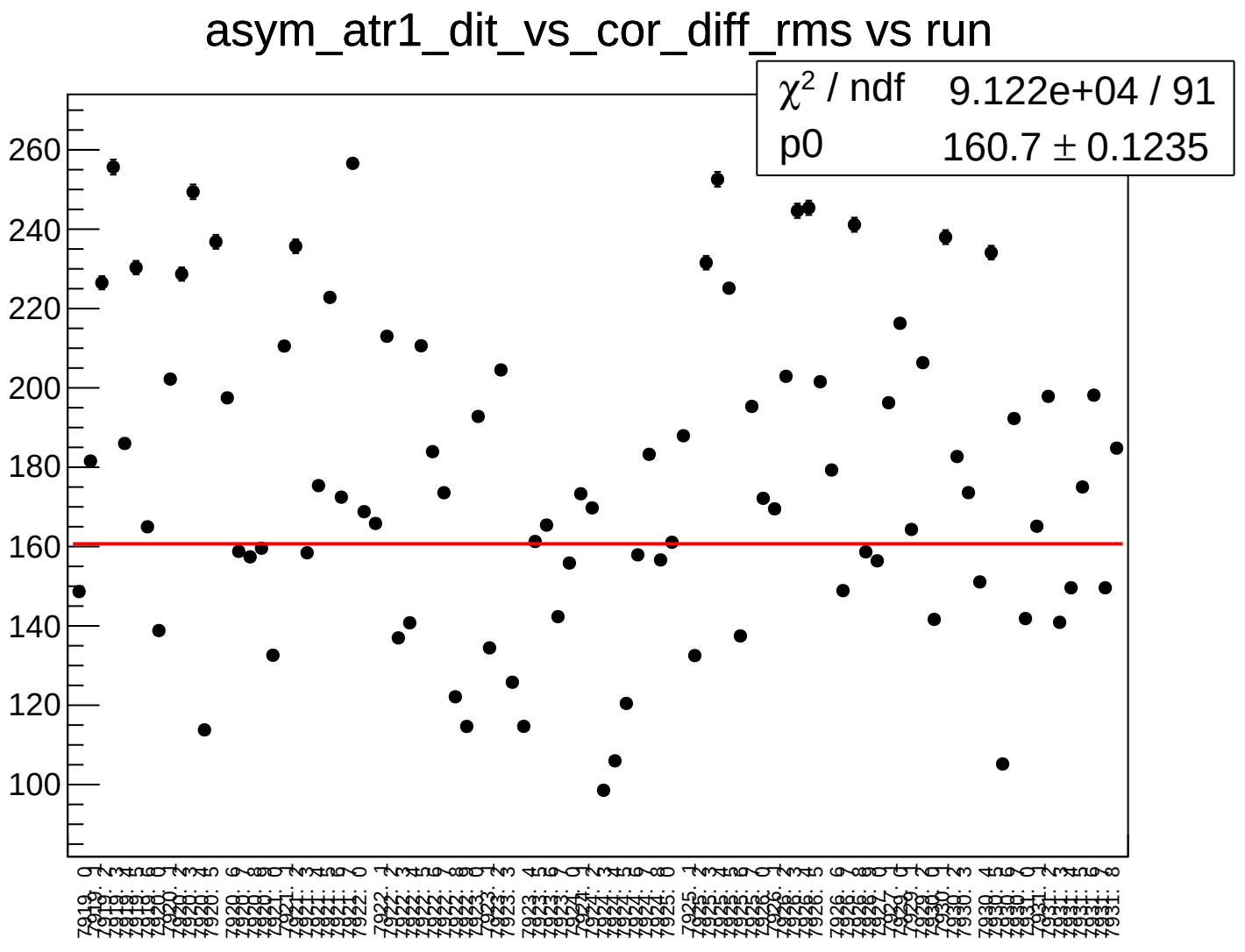

asym_atr1_reg_vs_cor_diff_mean vs run
χ² / ndf 71.41 / 91
p0 −6.114e−14 ± 1.418e−13
pull
Entries 92
Mean 20.5
Std Dev 0

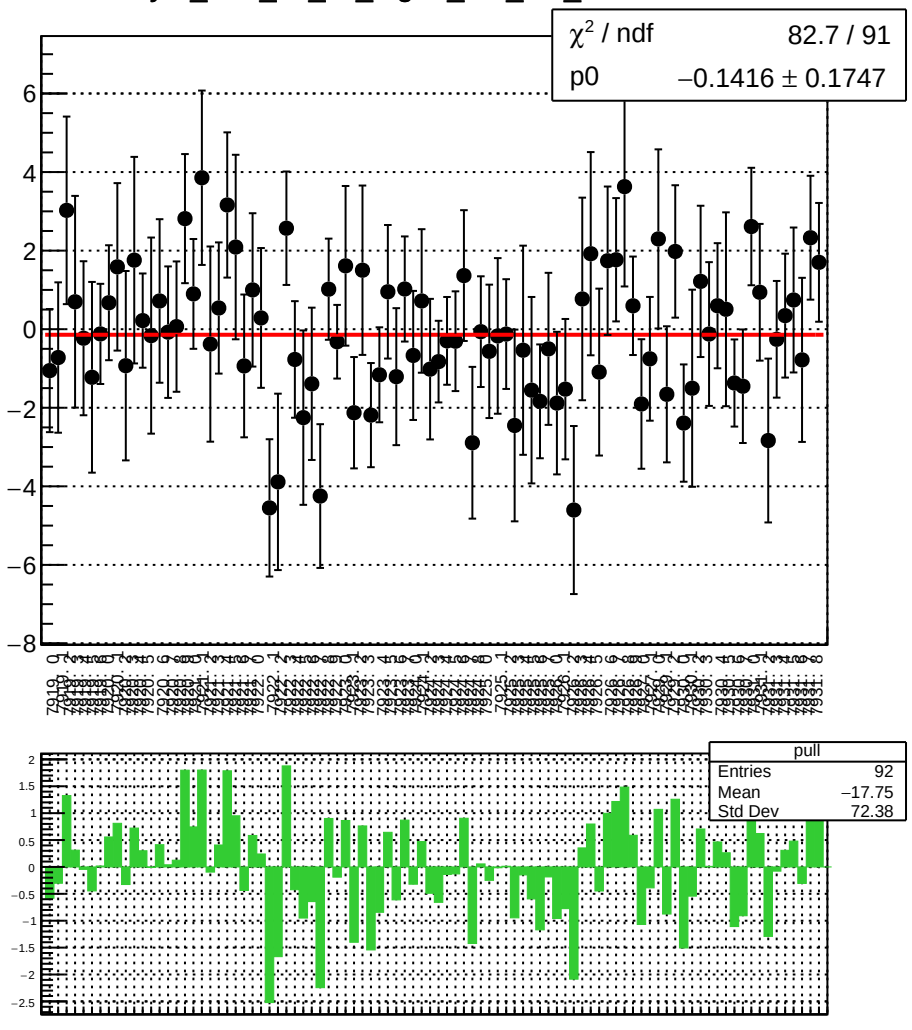

pull1D
Entries 92
Mean −0.01995
Std Dev 0.8808

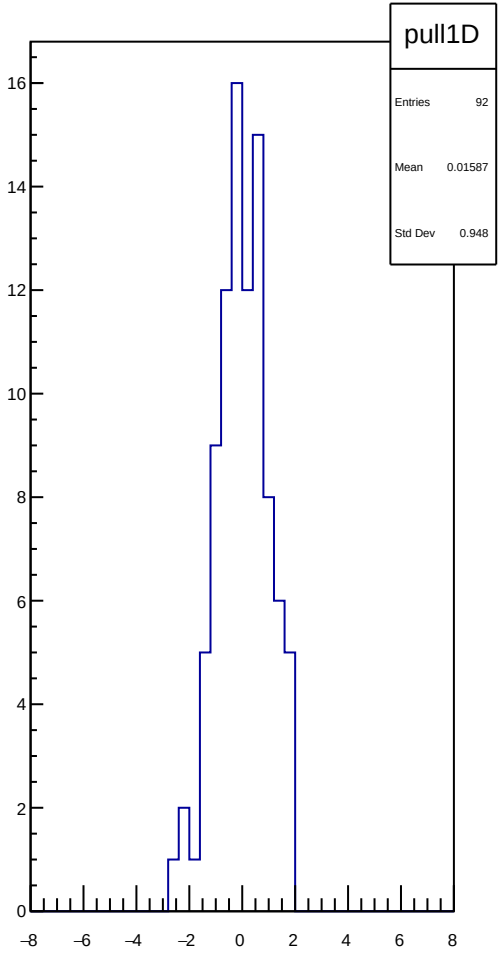

asym_atr1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.129e+06 / 91
p0 8.109e−11 ± 1.003e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

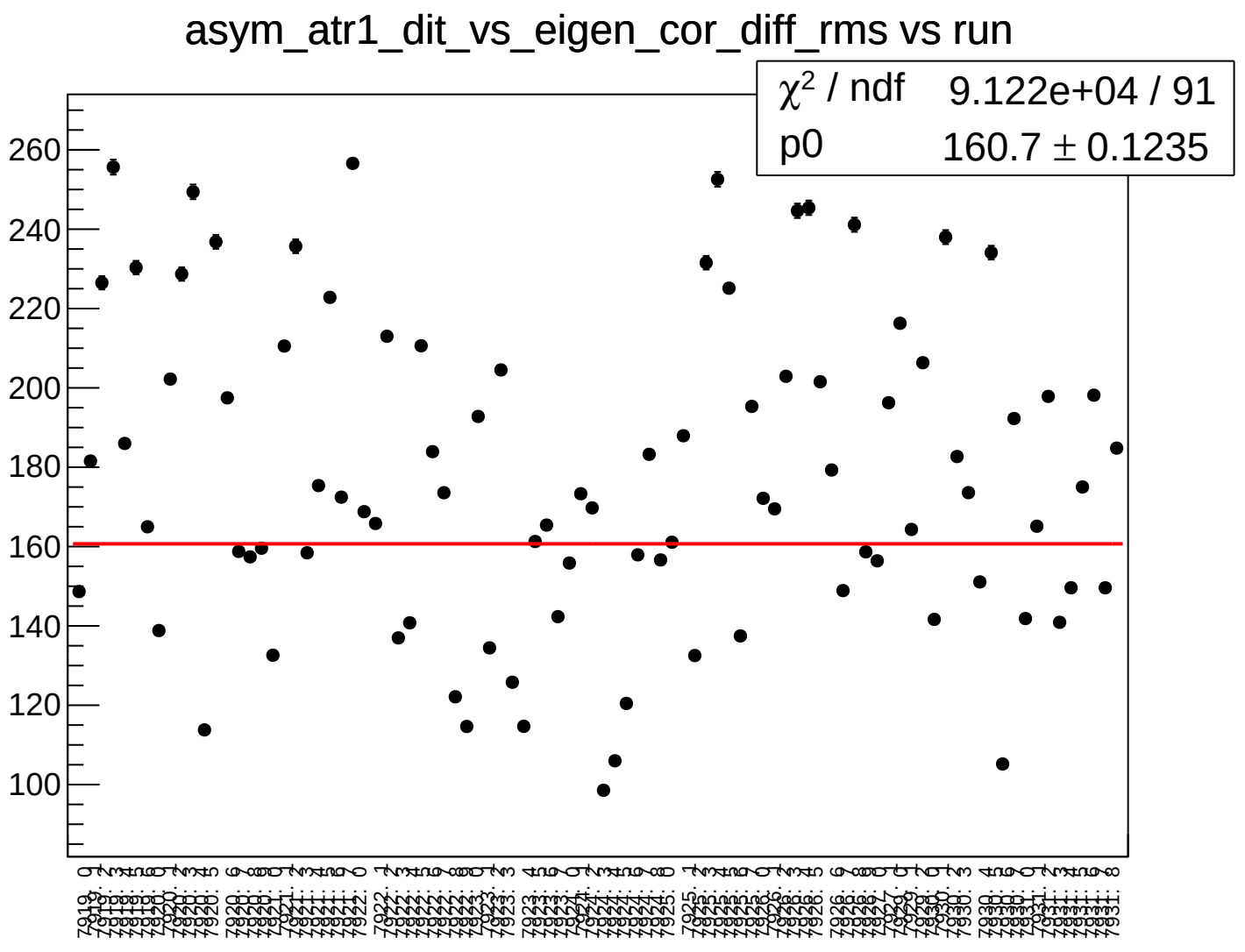

asym_atr1_dit_vs_cor_diff_mean vs run
χ² / ndf 82.7 / 91
p0 −0.1416 ± 0.1747
pull
Entries 92
Mean −17.75
Std Dev 72.38

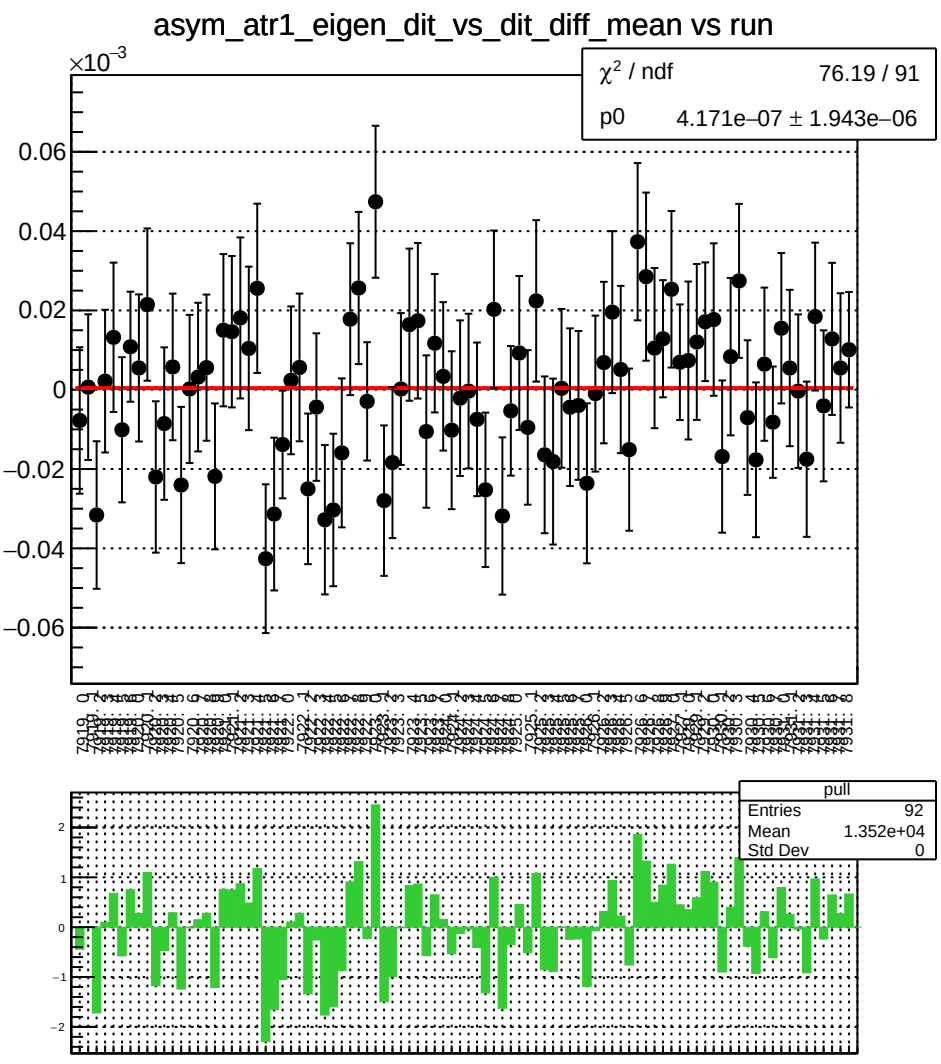

pull1D
Entries 92
Mean 0.01587
Std Dev 0.948

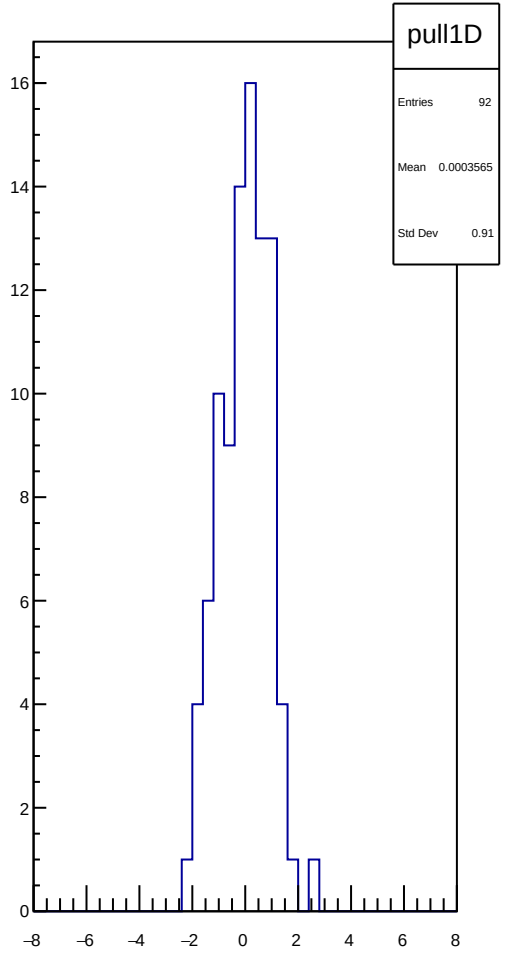

asym_atr1_dit_vs_cor_diff_rms vs run
χ² / ndf 9.122e+04 / 91
p0 160.7 ± 0.1235
260
240
220
200
180
160
140
120
100

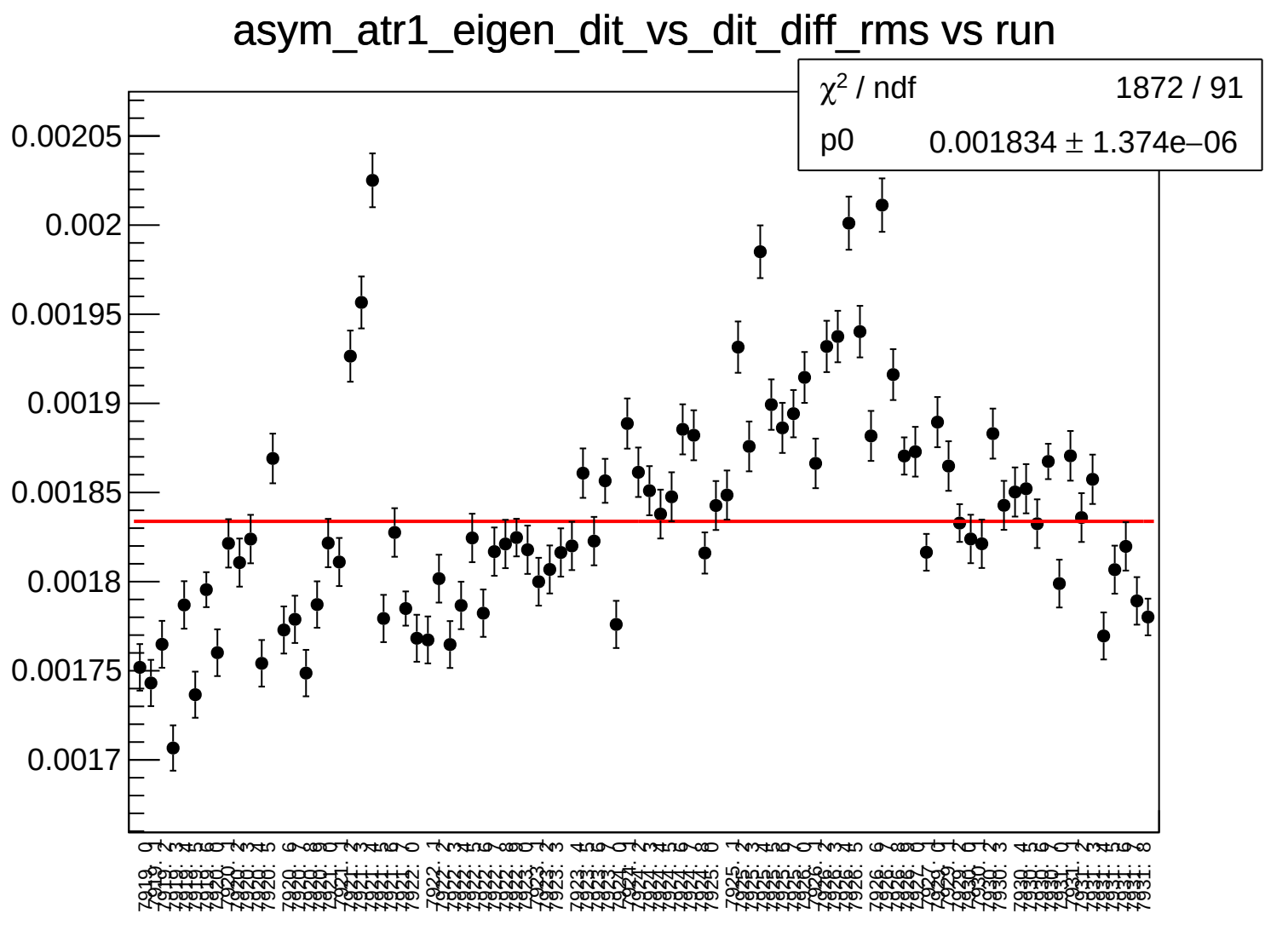

asym_atr1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.7 / 91
p0 −0.1416 ± 0.1747
pull
Entries 92
Mean −17.75
Std Dev 72.38

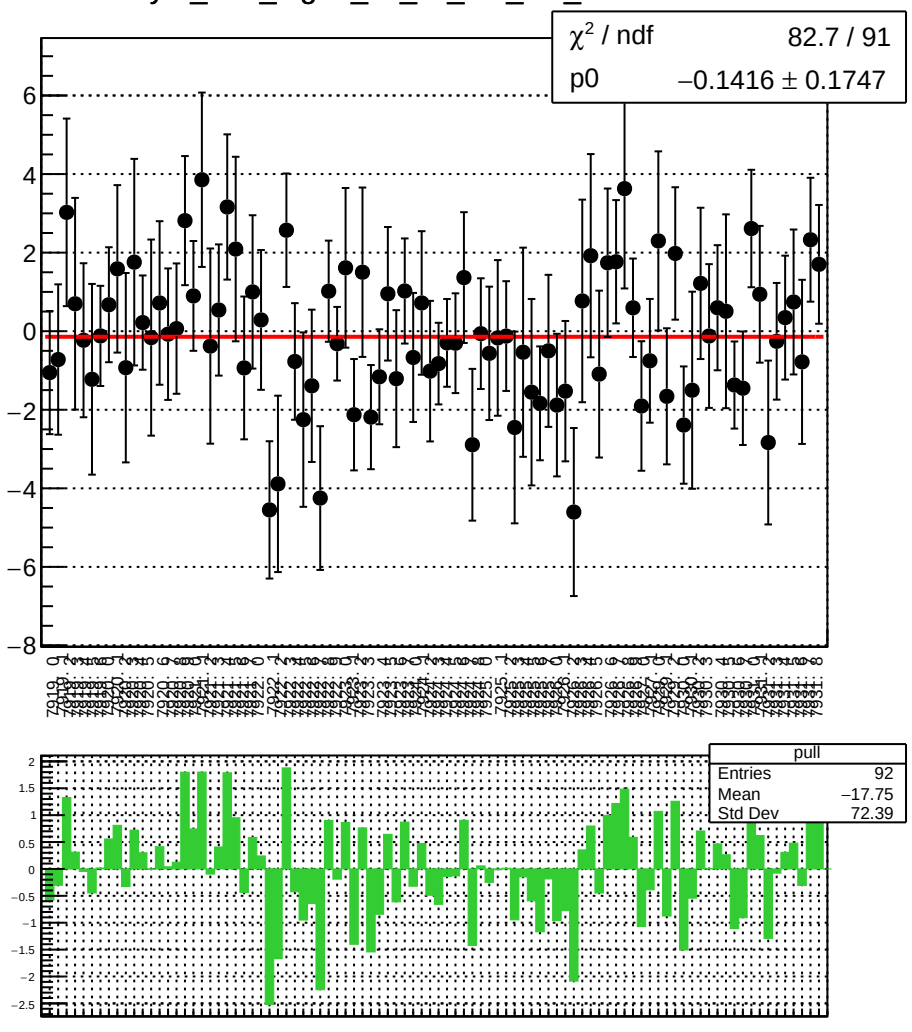

pull1D
Entries 92
Mean 0.01587
Std Dev 0.948

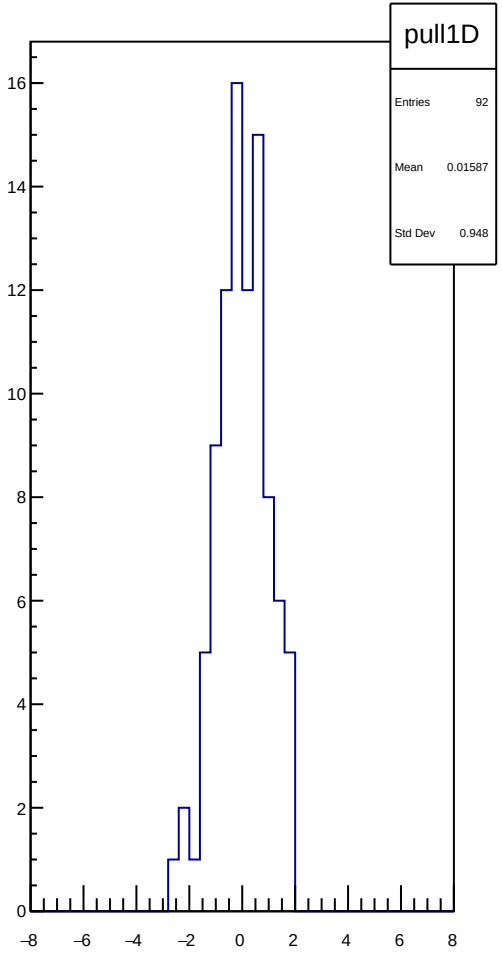

asym_atr1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.122e+04 / 91
p0 160.7 ± 0.1235
260
240
220
200
180
160
140
120
100

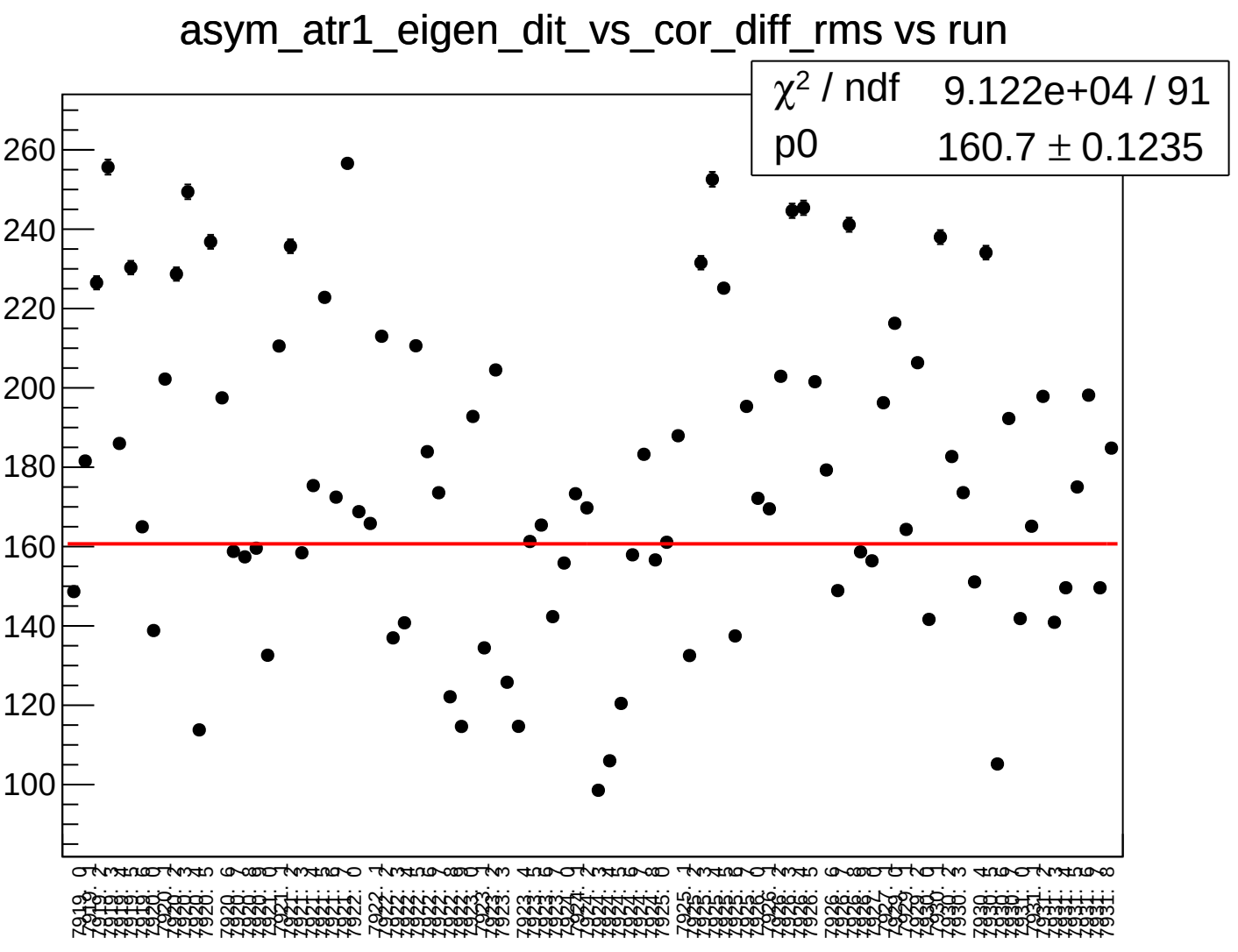

asym_atr1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 76.19 / 91
p0 4.171e−07 ± 1.943e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 92
Mean 1.352e+04
Std Dev 0
2
1
0
−1
−2

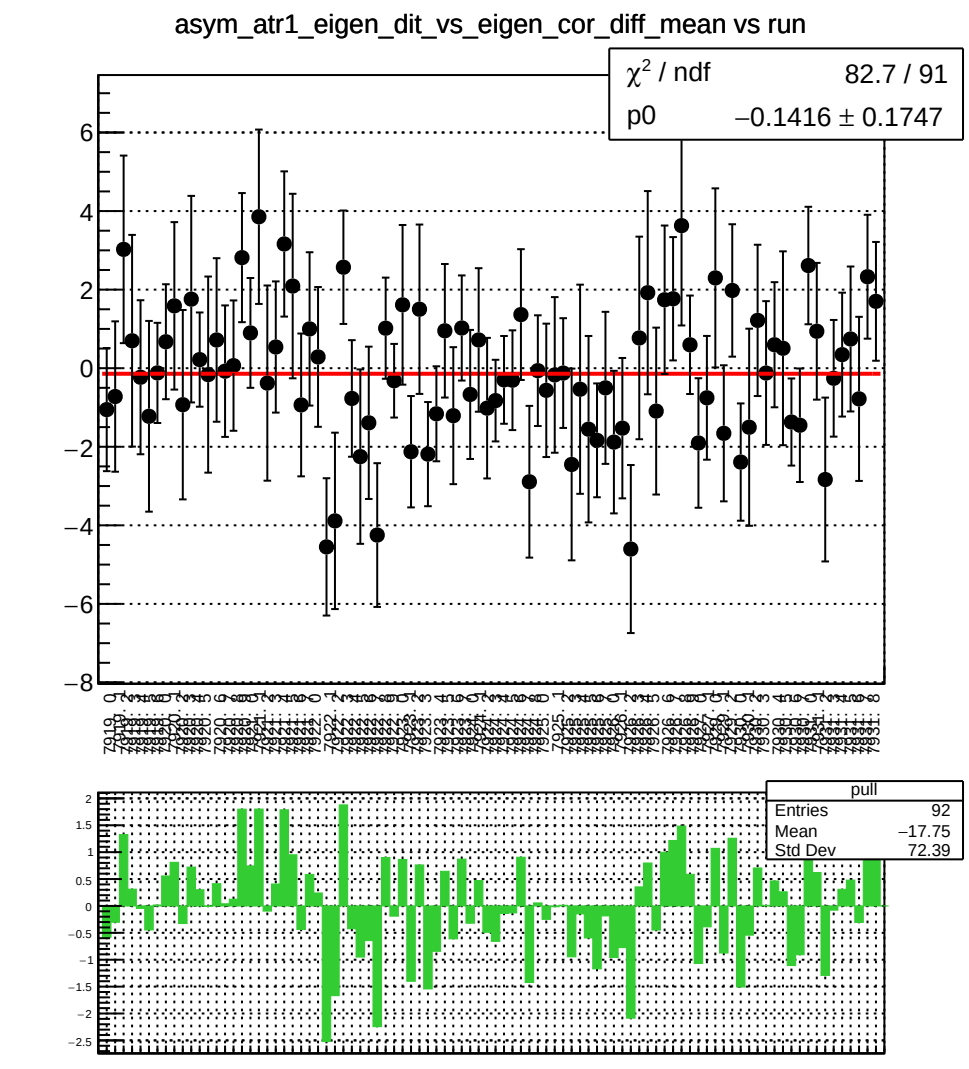

pull1D
Entries 92
Mean 0.0003565
Std Dev 0.91
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

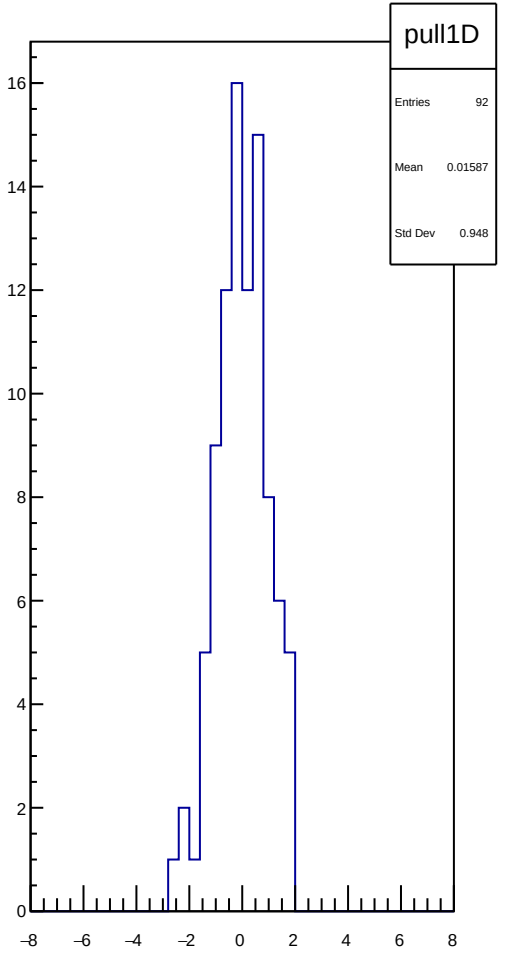

asym_atr1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1872 / 91
p0 0.001834 ± 1.374e−06
0.00205
0.002
0.00195
0.0019
0.00185
0.0018
0.00175
0.0017

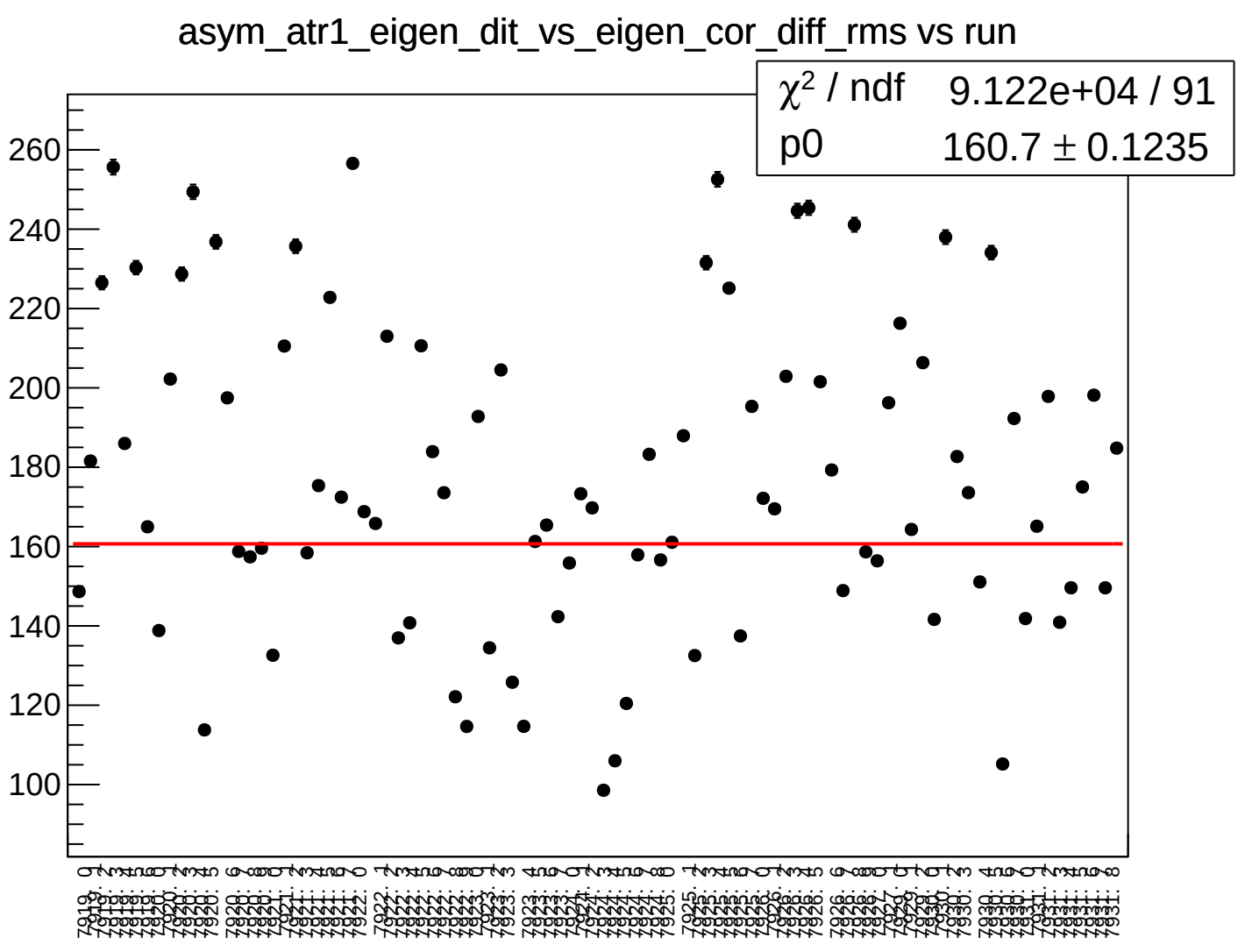

asym_atr1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.7 / 91
p0 −0.1416 ± 0.1747
pull
Entries 92
Mean −17.75
Std Dev 72.39

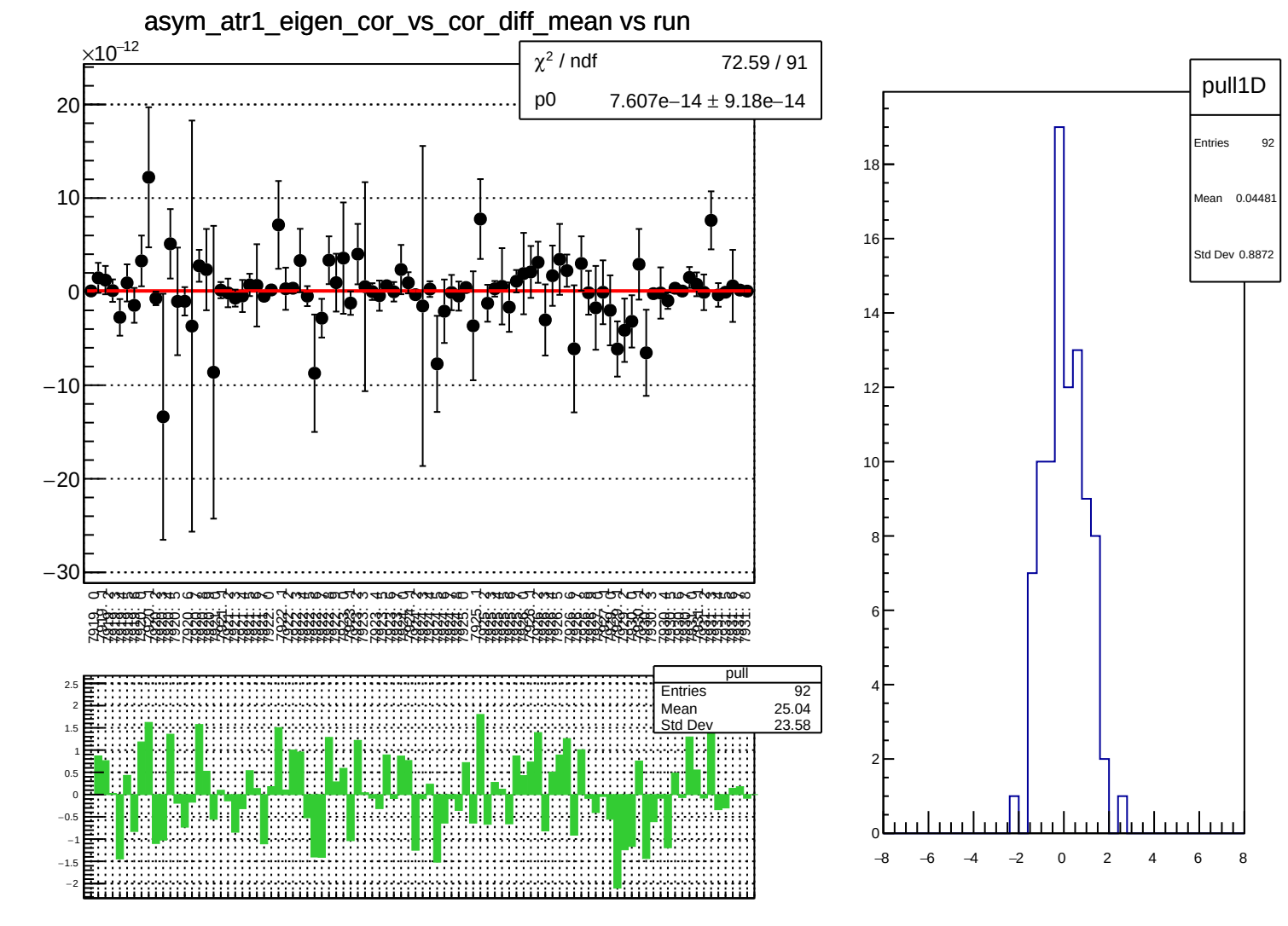

pull1D
Entries 92
Mean 0.01587
Std Dev 0.948

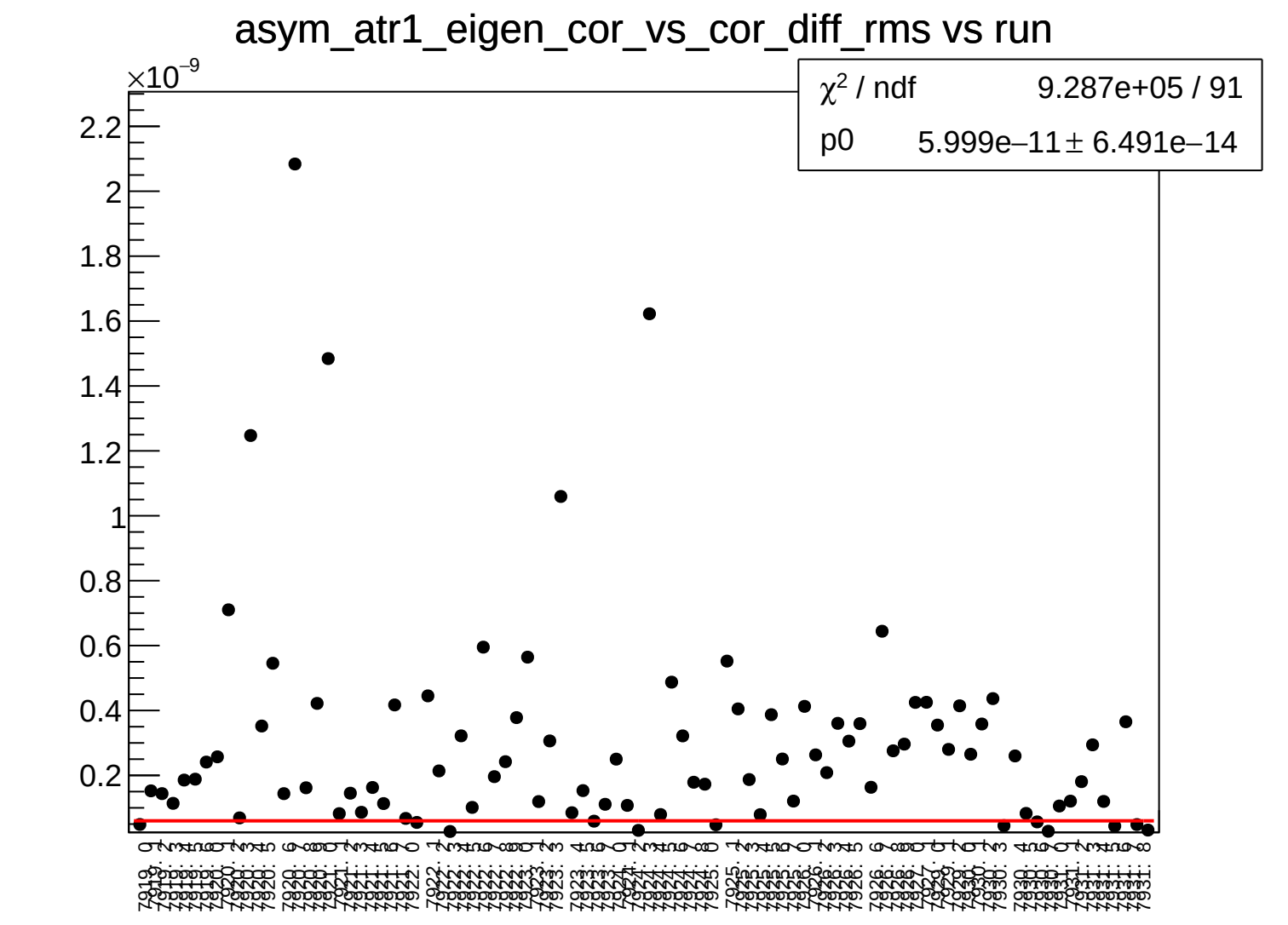

asym_atr1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.122e+04 / 91
p0 160.7 ± 0.1235
260
240
220
200
180
160
140
120
100

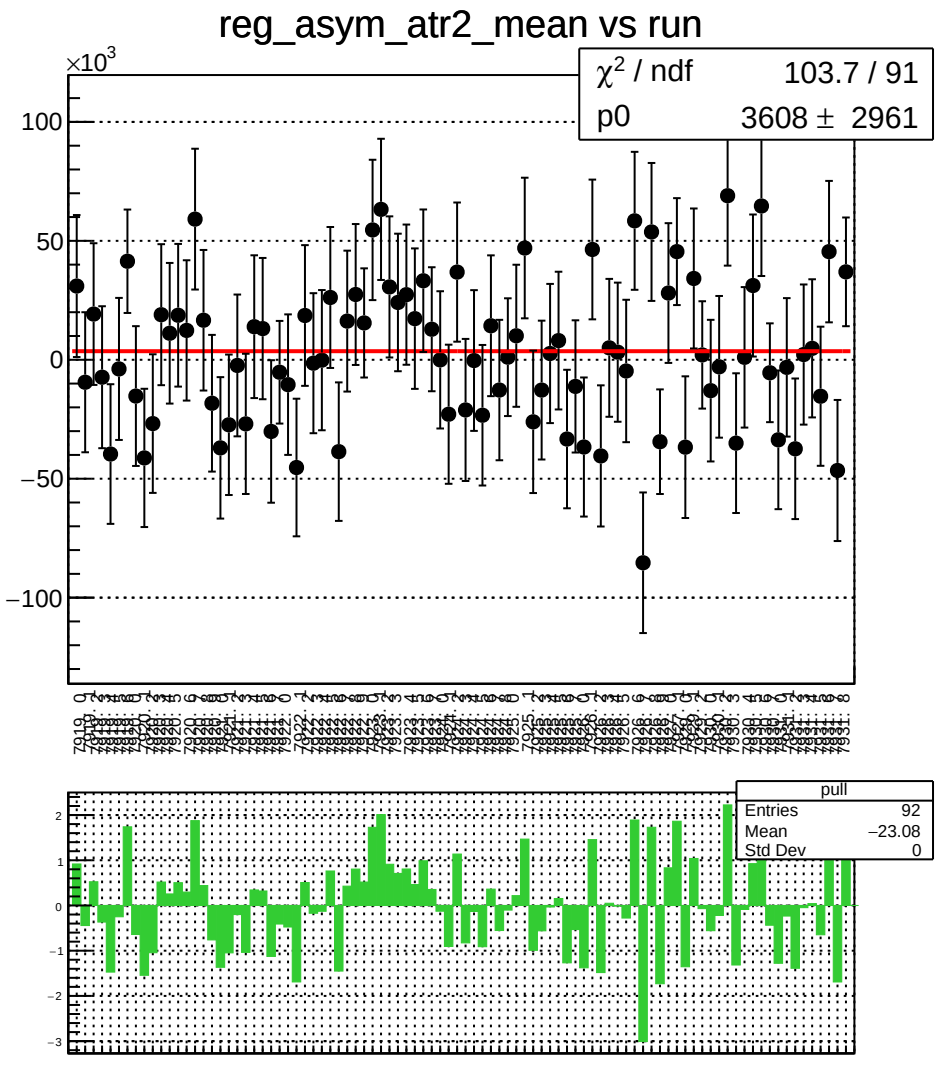

asym_atr1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.7 / 91
p0 −0.1416 ± 0.1747
pull
Entries 92
Mean −17.75
Std Dev 72.39

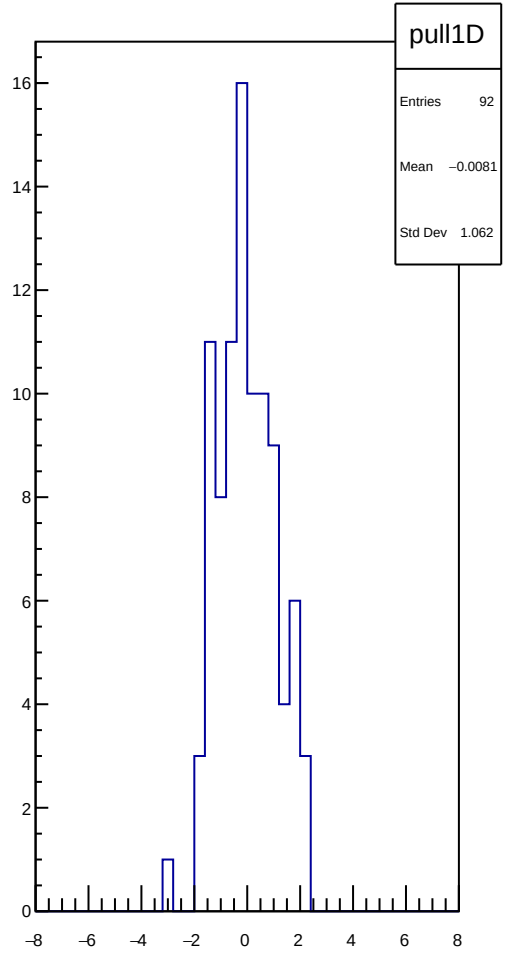

pull1D
Entries 92
Mean 0.01587
Std Dev 0.948

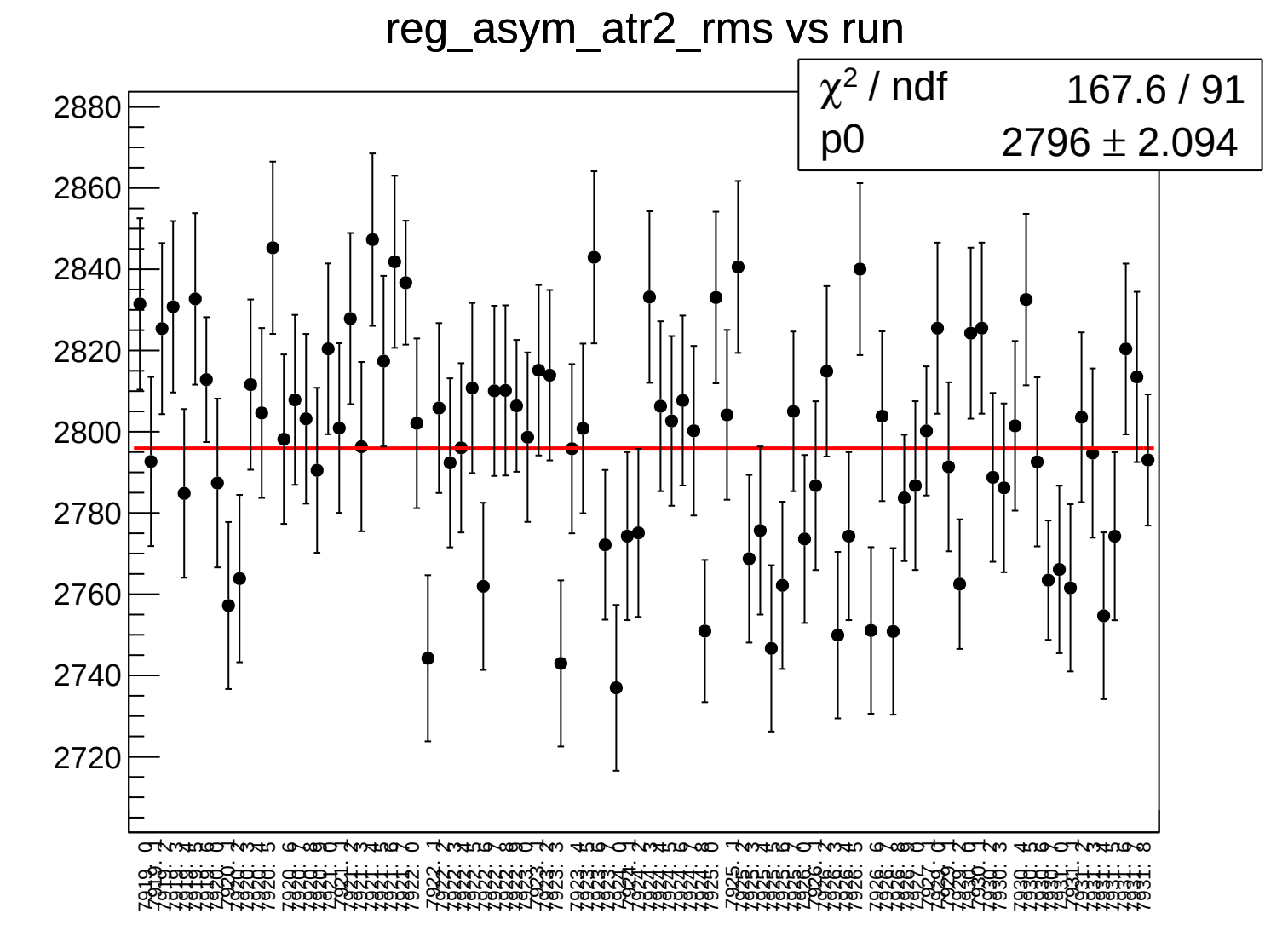

asym_atr1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.122e+04 / 91
p0 160.7 ± 0.1235
260
240
220
200
180
160
140
120
100

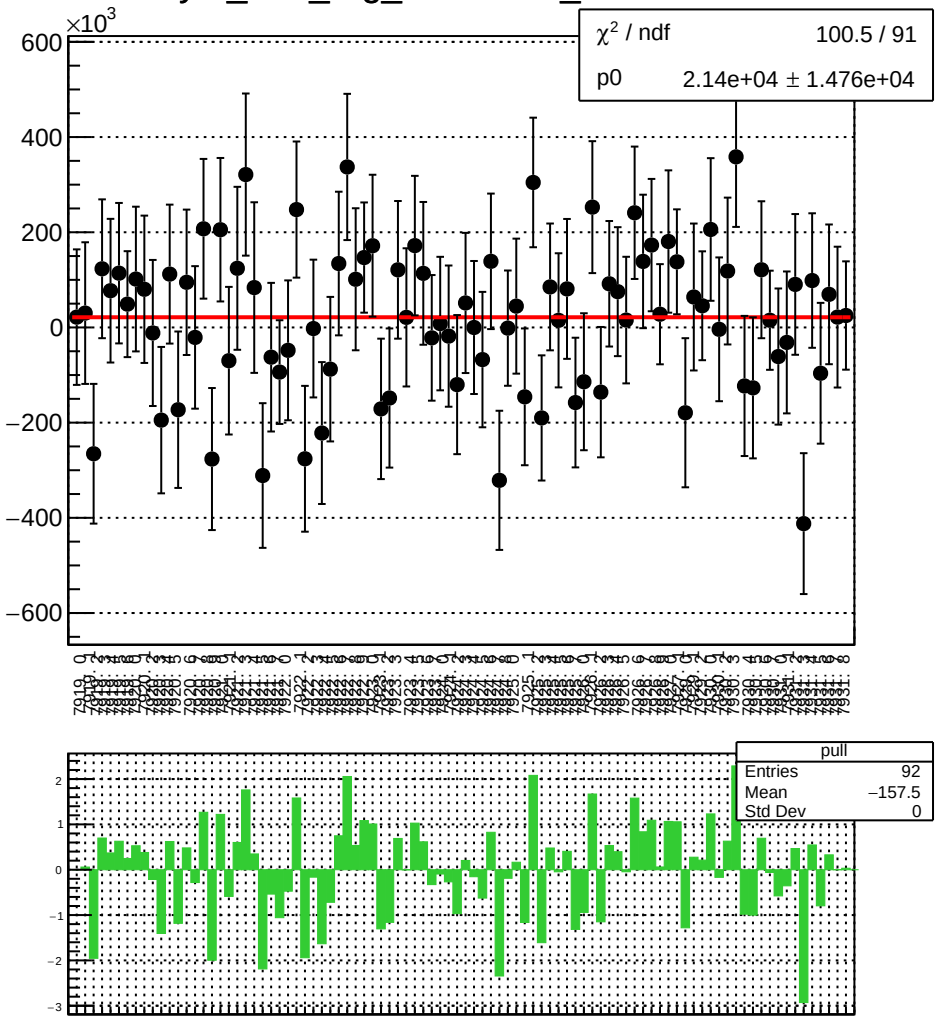

asym_atr1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 72.59 / 91
p0 7.607e−14 ± 9.18e−14
pull
Entries 92
Mean 25.04
Std Dev 23.58
pull1D
Entries 92
Mean 0.04481
Std Dev 0.8872

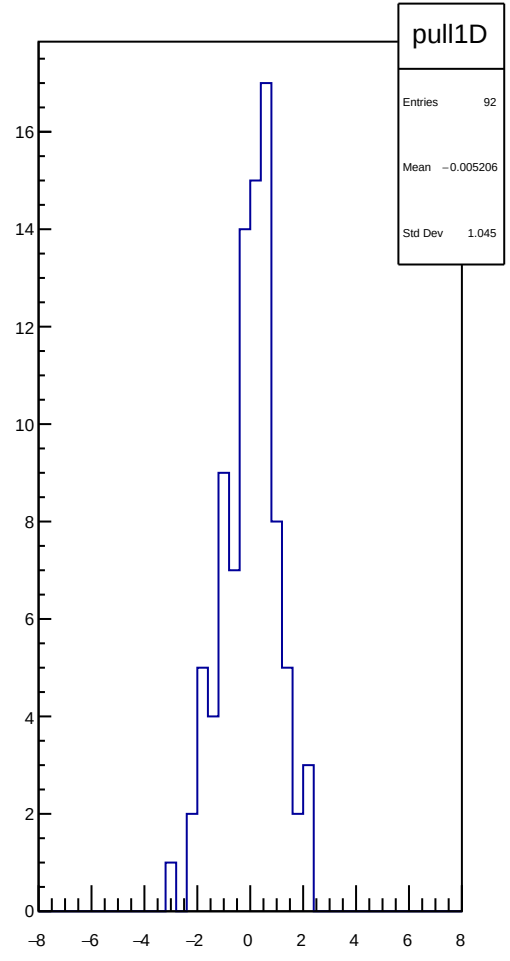

asym_atr1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.287e+05 / 91
p0 5.999e−11 ± 6.491e−14
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

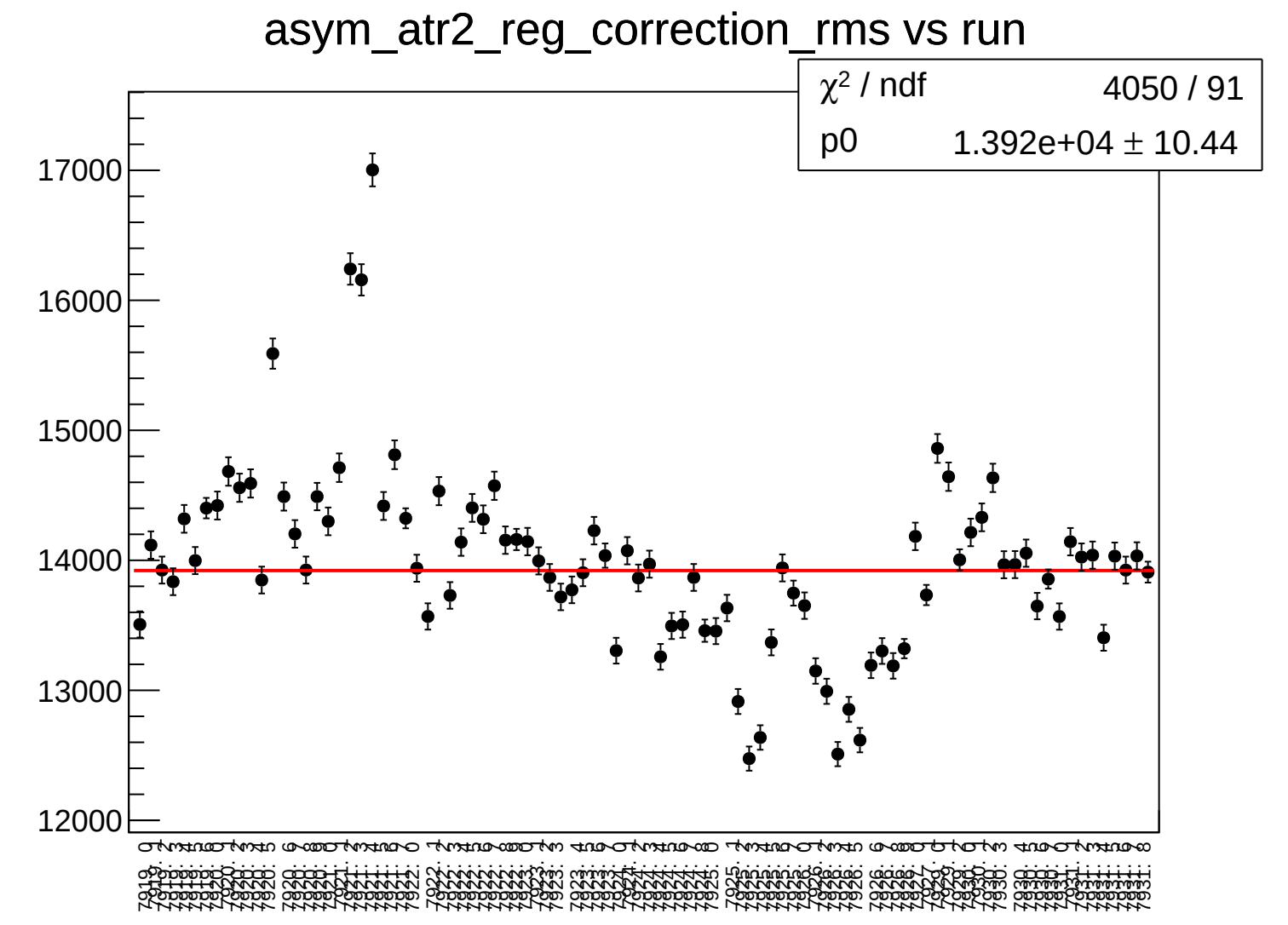

reg_asym_atr2_mean vs run
χ^2 / ndf 103.7 / 91
p0 3608 ± 2961
×10^3
100
50
0
−50
−100
pull
Entries 92
Mean −23.08
Std Dev 0
2
1
0
−1
−2
−3

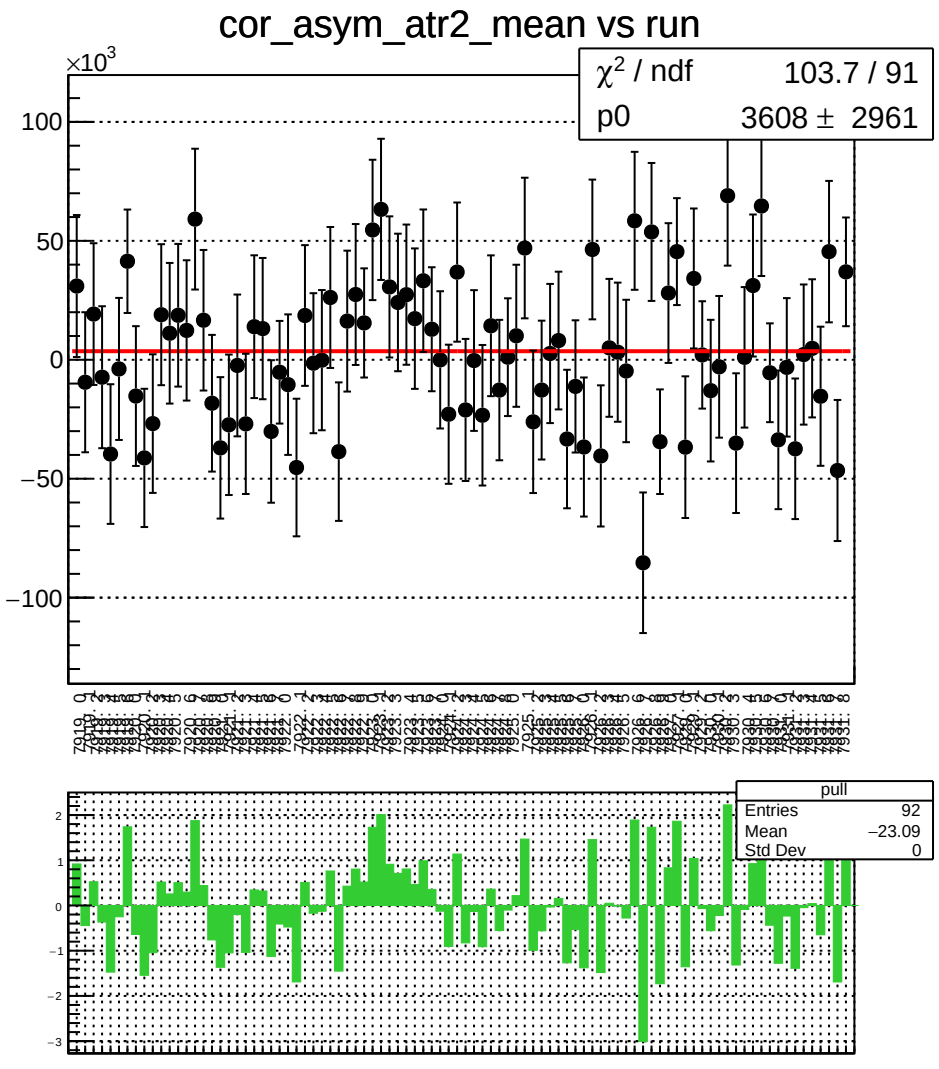

pull1D
Entries 92
Mean −0.0081
Std Dev 1.062
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

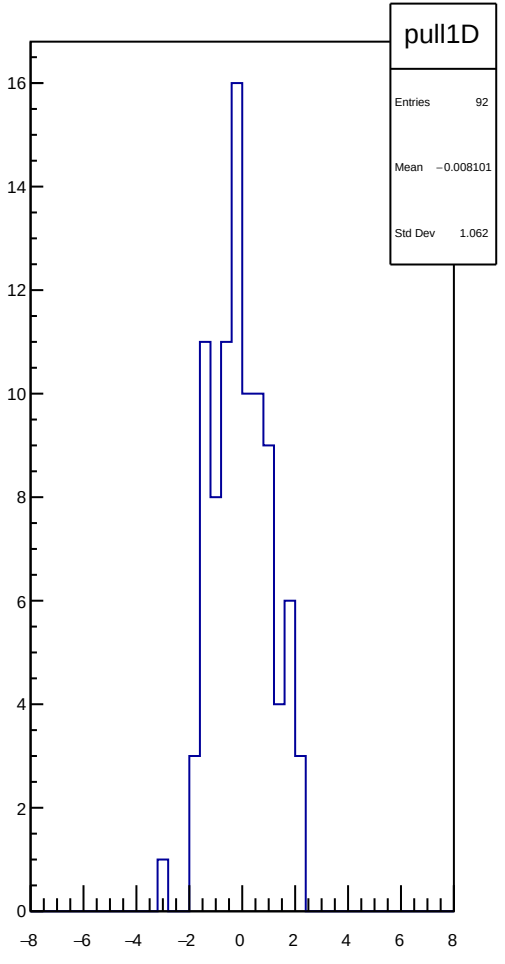

reg_asym_atr2_rms vs run
χ^2 / ndf 167.6 / 91
p0 2796 ± 2.094
2880
2860
2840
2820
2800
2780
2760
2740
2720

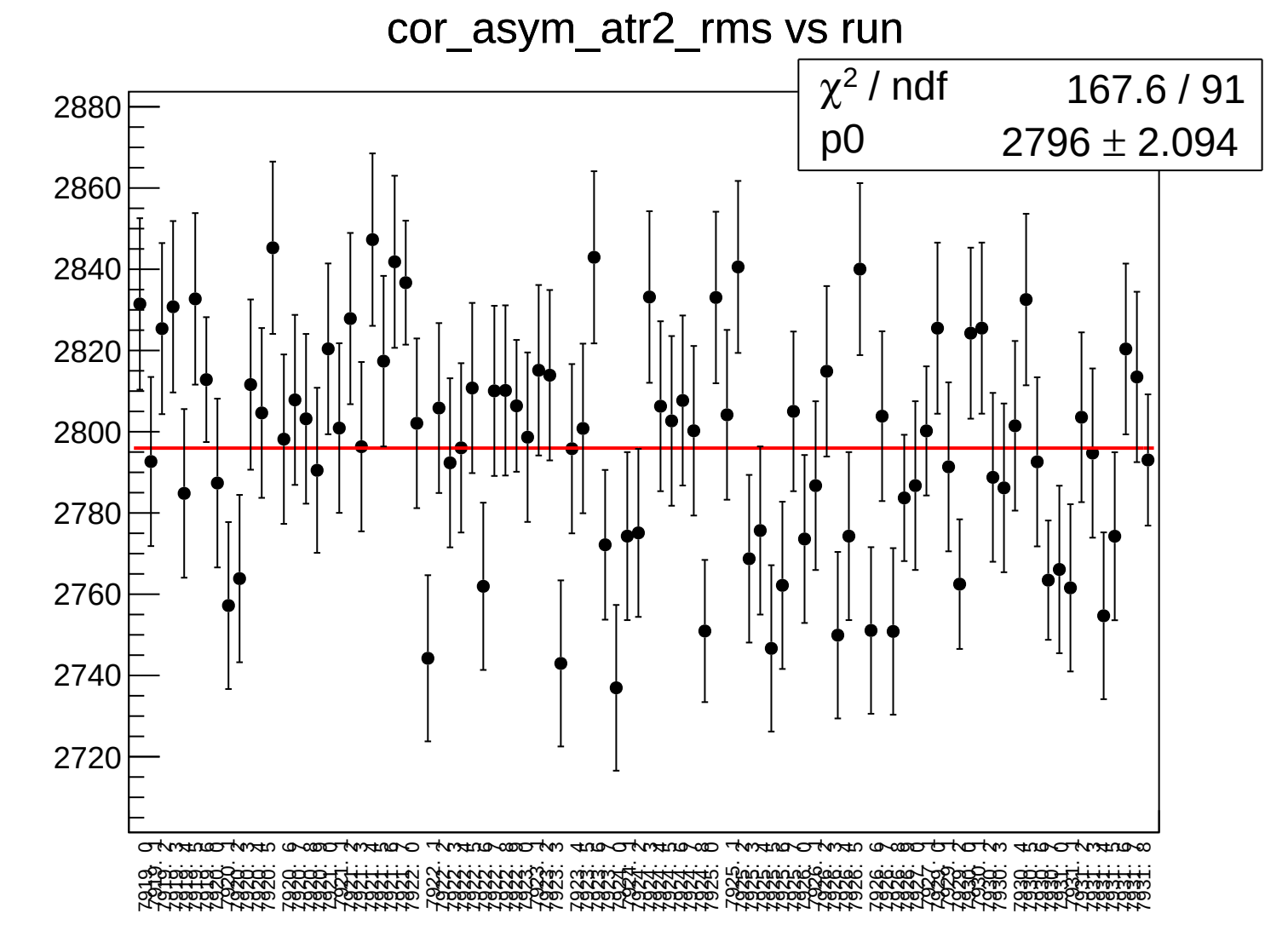

asym_atr2_reg_correction_mean vs run
χ^2 / ndf 100.5 / 91
p0 2.14e+04 ± 1.476e+04
×10^3
pull
Entries 92
Mean −157.5
Std Dev 0

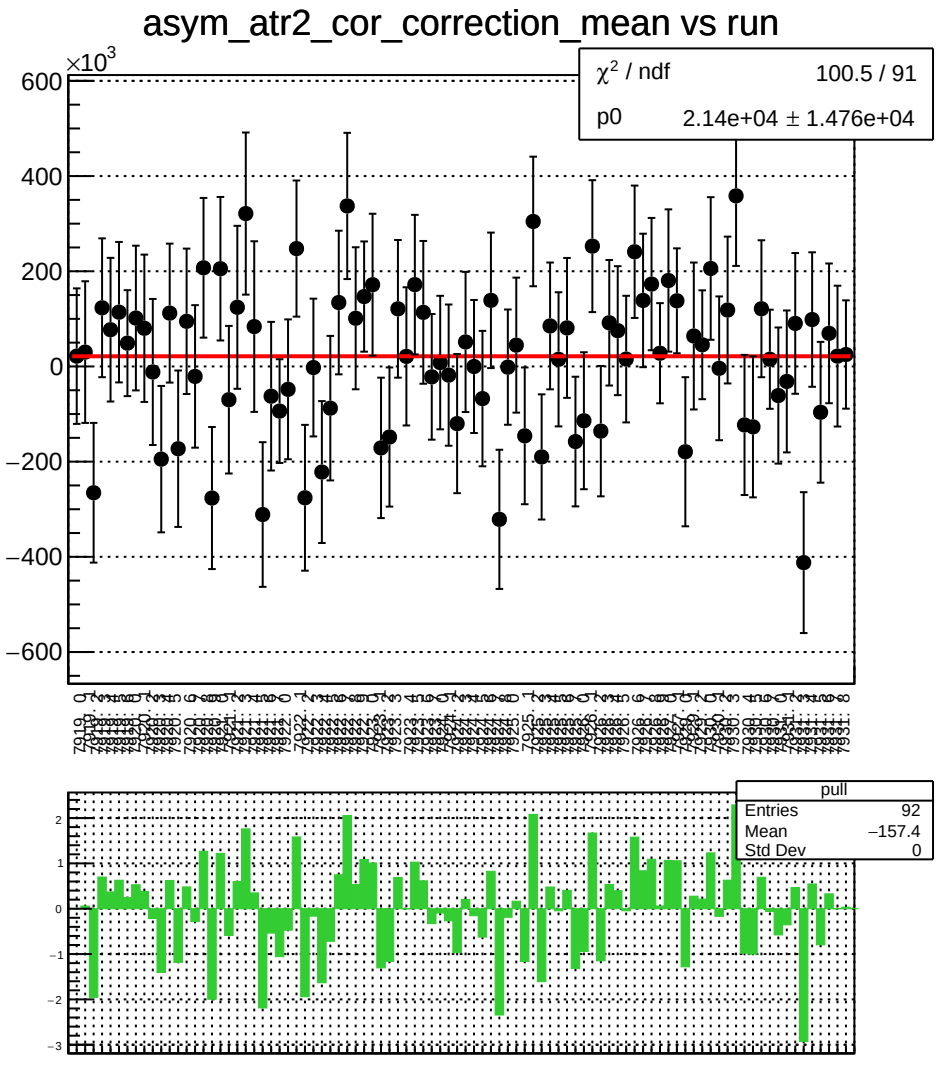

pull1D
Entries 92
Mean −0.005206
Std Dev 1.045

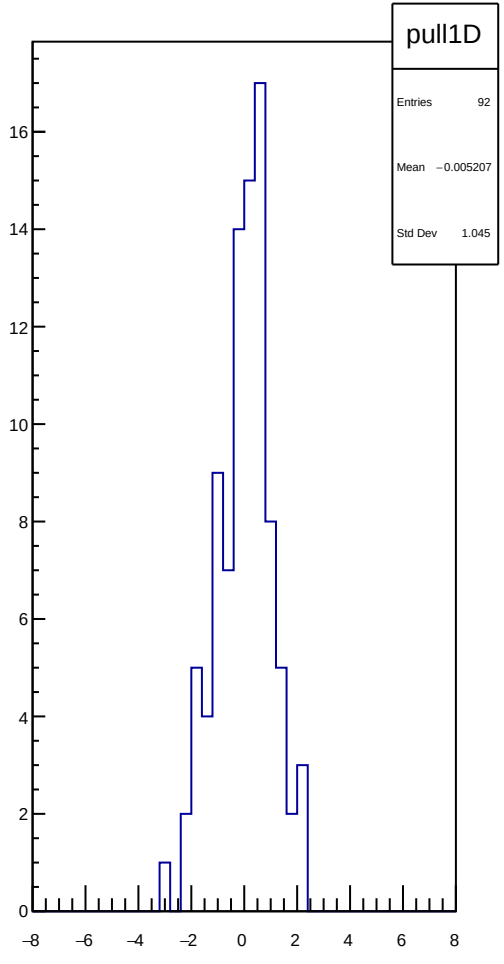

asym_atr2_reg_correction_rms vs run
χ² / ndf 4050 / 91
p0 1.392e+04 ± 10.44
17000
16000
15000
14000
13000
12000

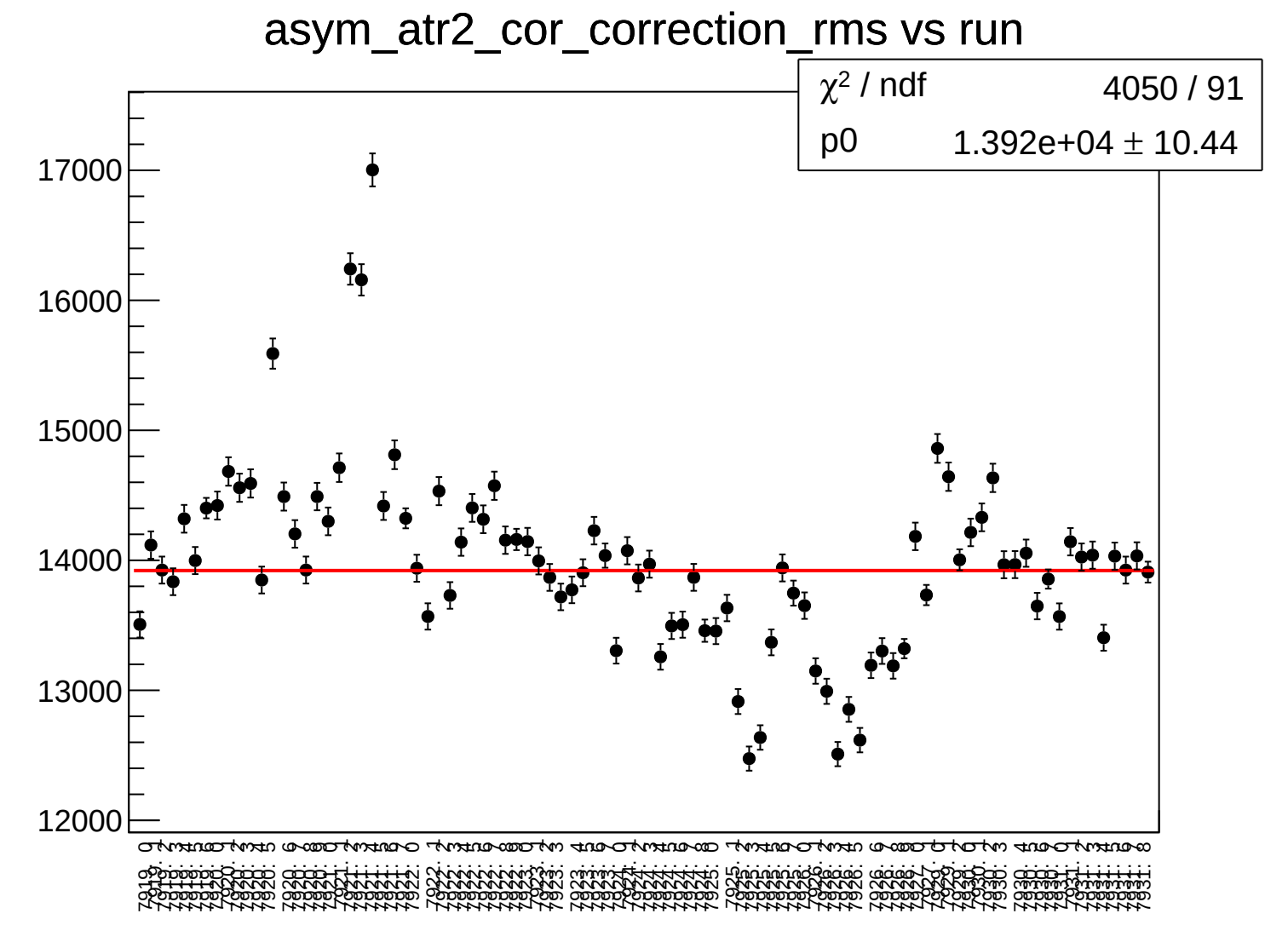

cor_asym_atr2_mean vs run
×10^3
χ² / ndf 103.7 / 91
p0 3608 ± 2961
100
50
0
−50
−100
pull
Entries 92
Mean −23.09
Std Dev 0
2
1
0
−1
−2
−3

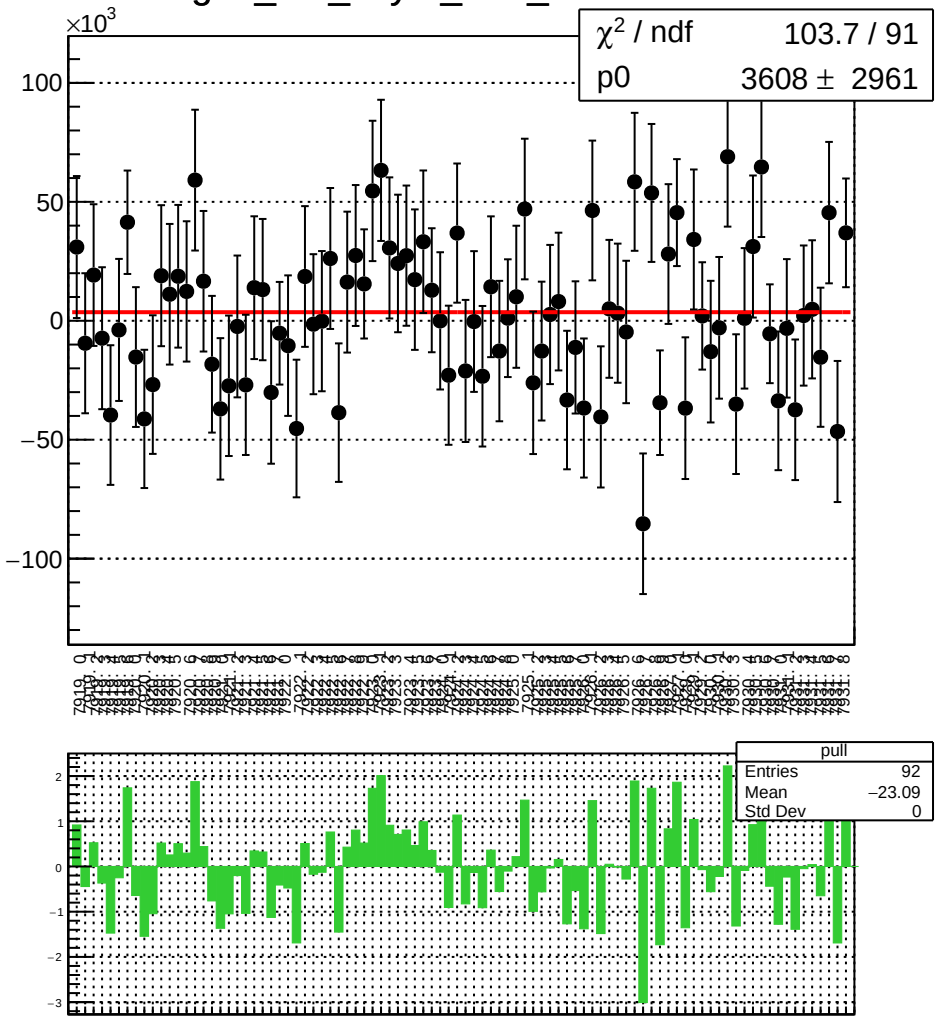

pull1D
Entries 92
Mean −0.008101
Std Dev 1.062
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

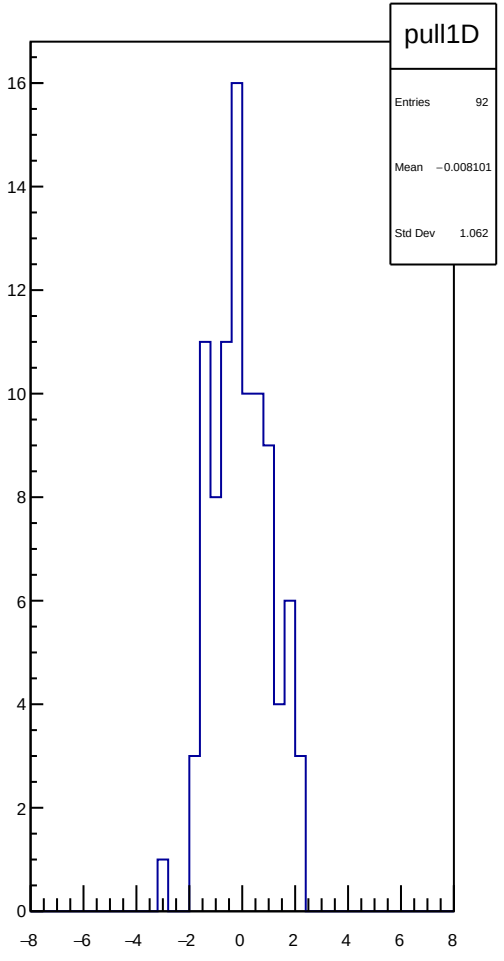

cor_asym_atr2_rms vs run
χ² / ndf 167.6 / 91
p0 2796 ± 2.094
2880
2860
2840
2820
2800
2780
2760
2740
2720

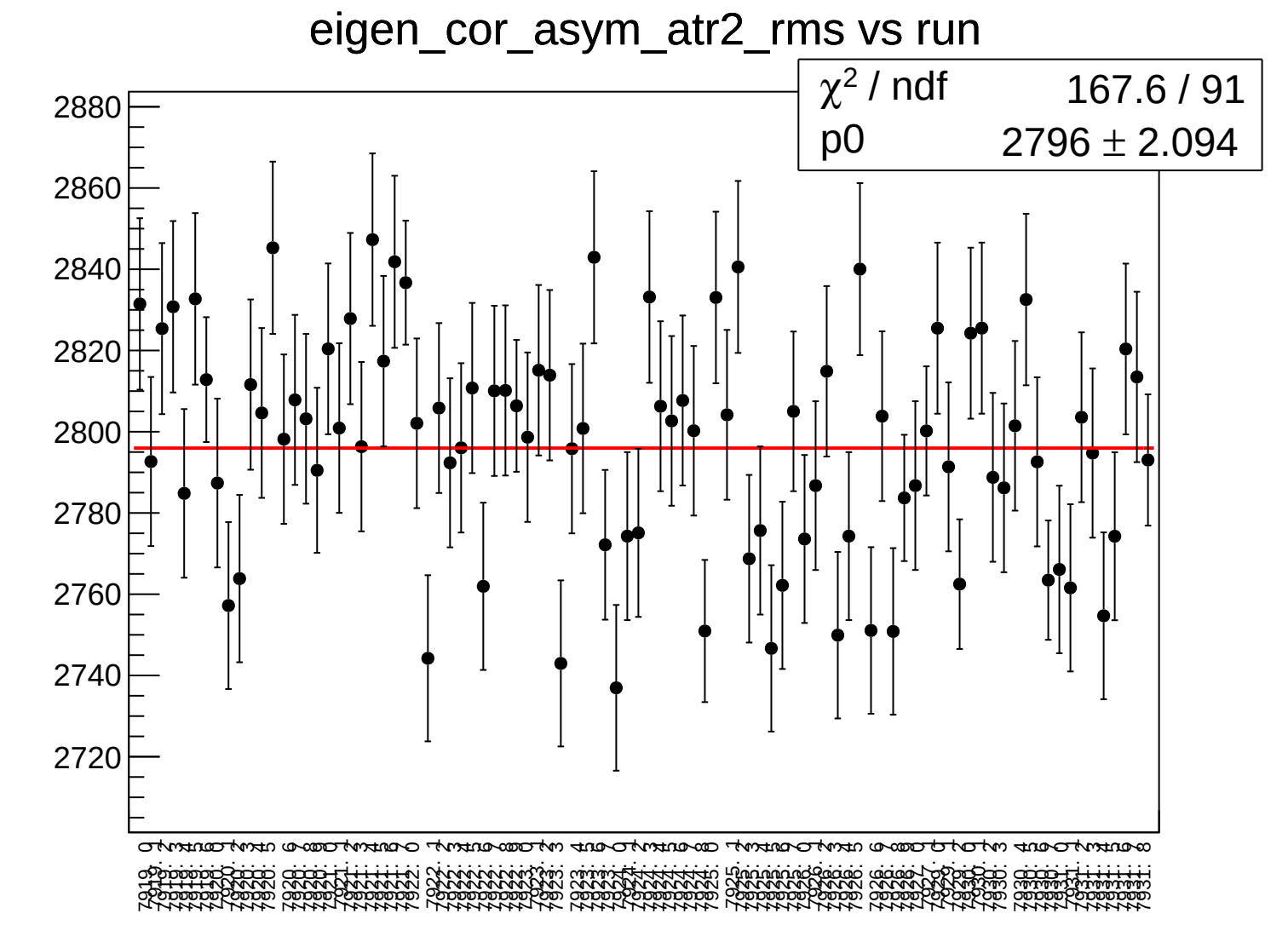

asym_atr2_cor_correction_mean vs run
×10^3
600
400
200
0
−200
−400
−600
χ² / ndf 100.5 / 91
p0 2.14e+04 ± 1.476e+04
pull
Entries 92
Mean −157.4
Std Dev 0
2
1
0
−1
−2
−3

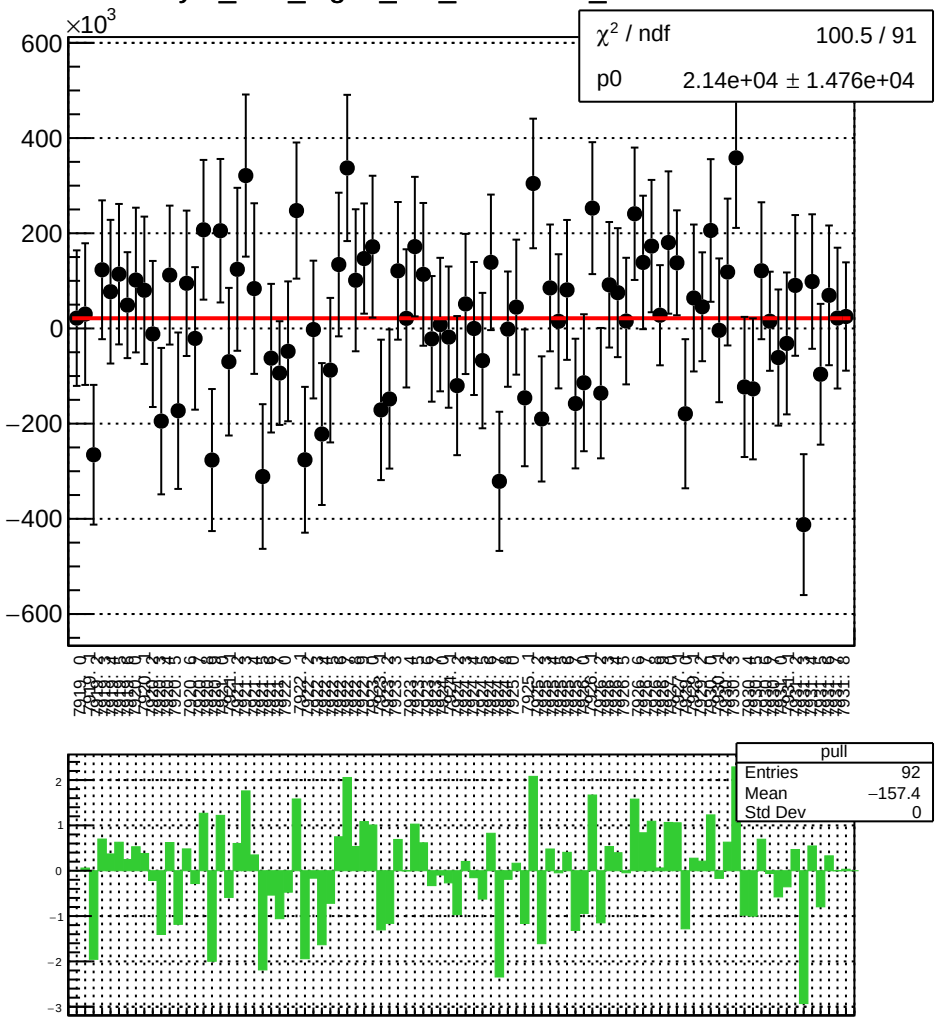

pull1D
Entries 92
Mean −0.005207
Std Dev 1.045
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

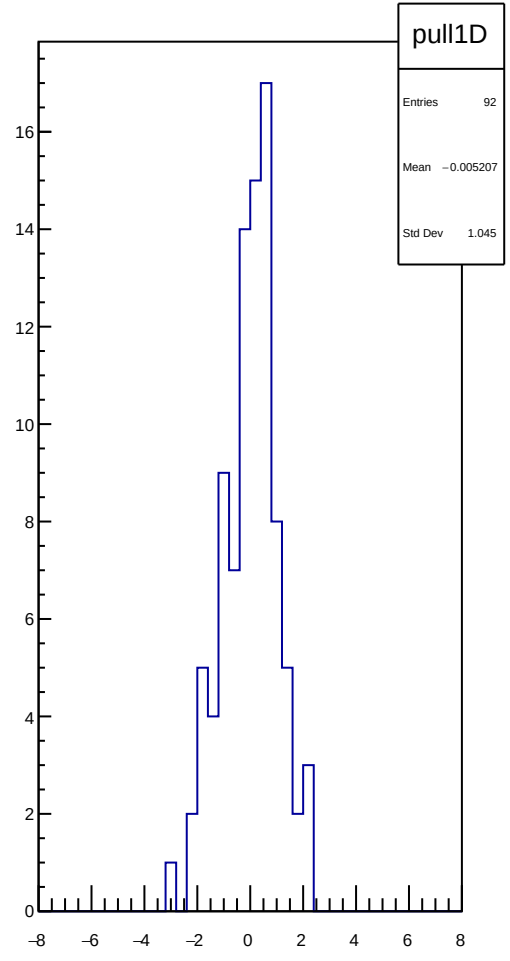

asym_atr2_cor_correction_rms vs run
χ² / ndf 4050 / 91
p0 1.392e+04 ± 10.44
17000
16000
15000
14000
13000
12000

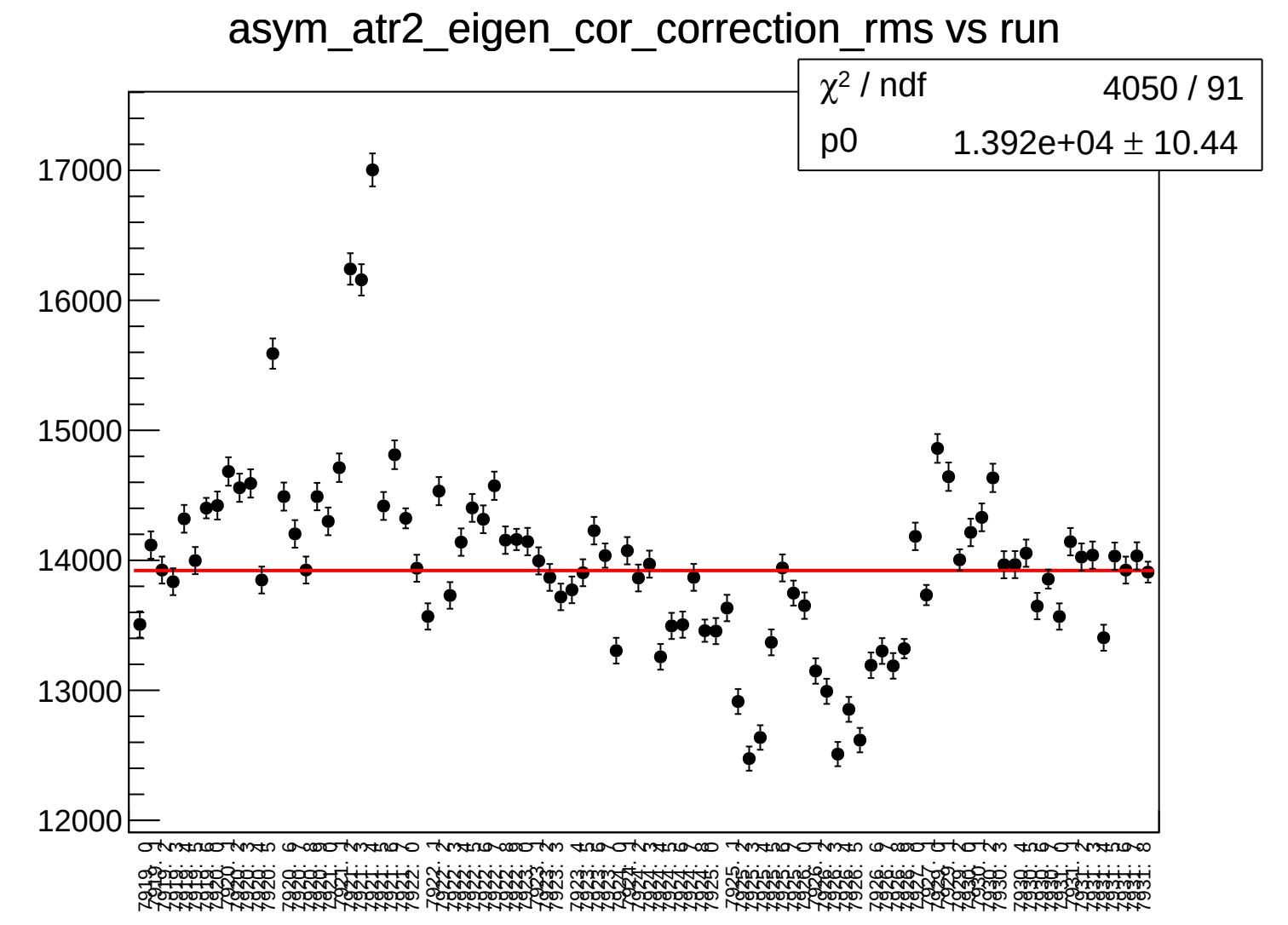

eigen_cor_asym_atr2_mean vs run
×10^3
χ² / ndf 103.7 / 91
p0 3608 ± 2961
100
50
0
−50
−100
pull
Entries 92
Mean −23.09
Std Dev 0
2
1
0
−1
−2
−3

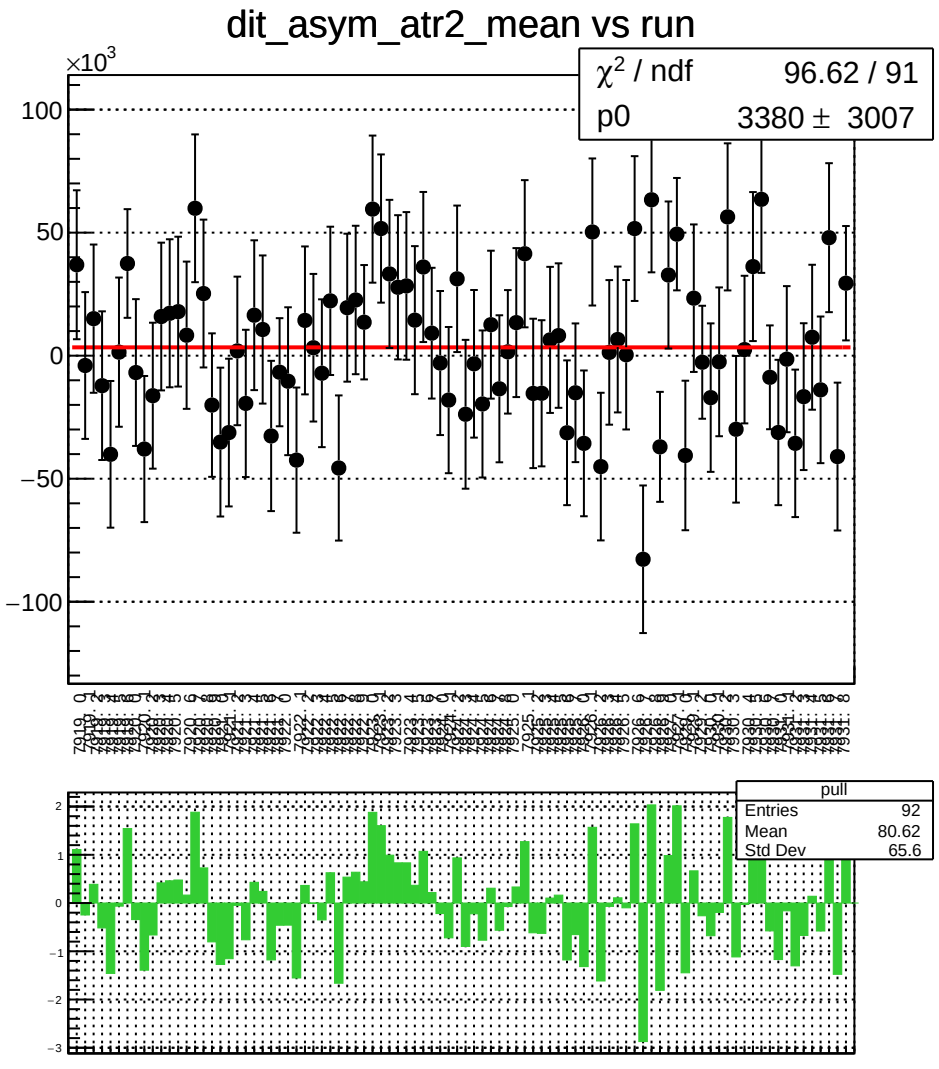

pull1D
Entries 92
Mean −0.008101
Std Dev 1.062
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

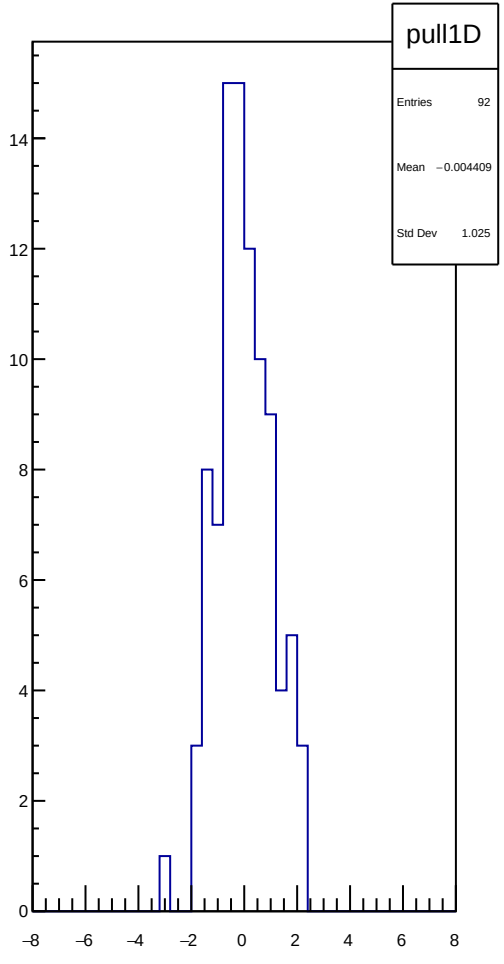

eigen_cor_asym_atr2_rms vs run
χ^2 / ndf 167.6 / 91
p0 2796 ± 2.094
2880
2860
2840
2820
2800
2780
2760
2740
2720

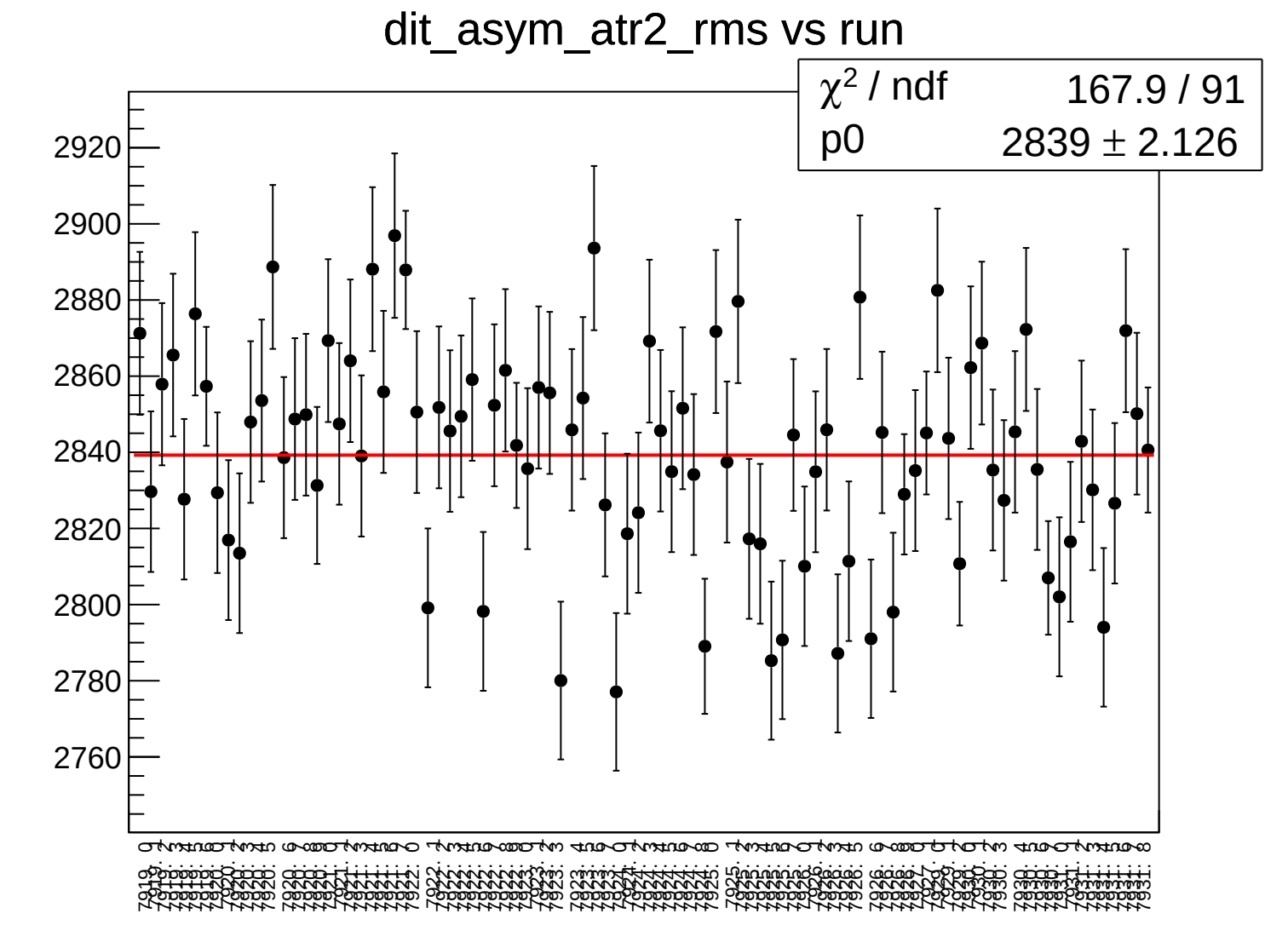

asym_atr2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 100.5 / 91
p0 2.14e+04 ± 1.476e+04
pull
Entries 92
Mean −157.4
Std Dev 0

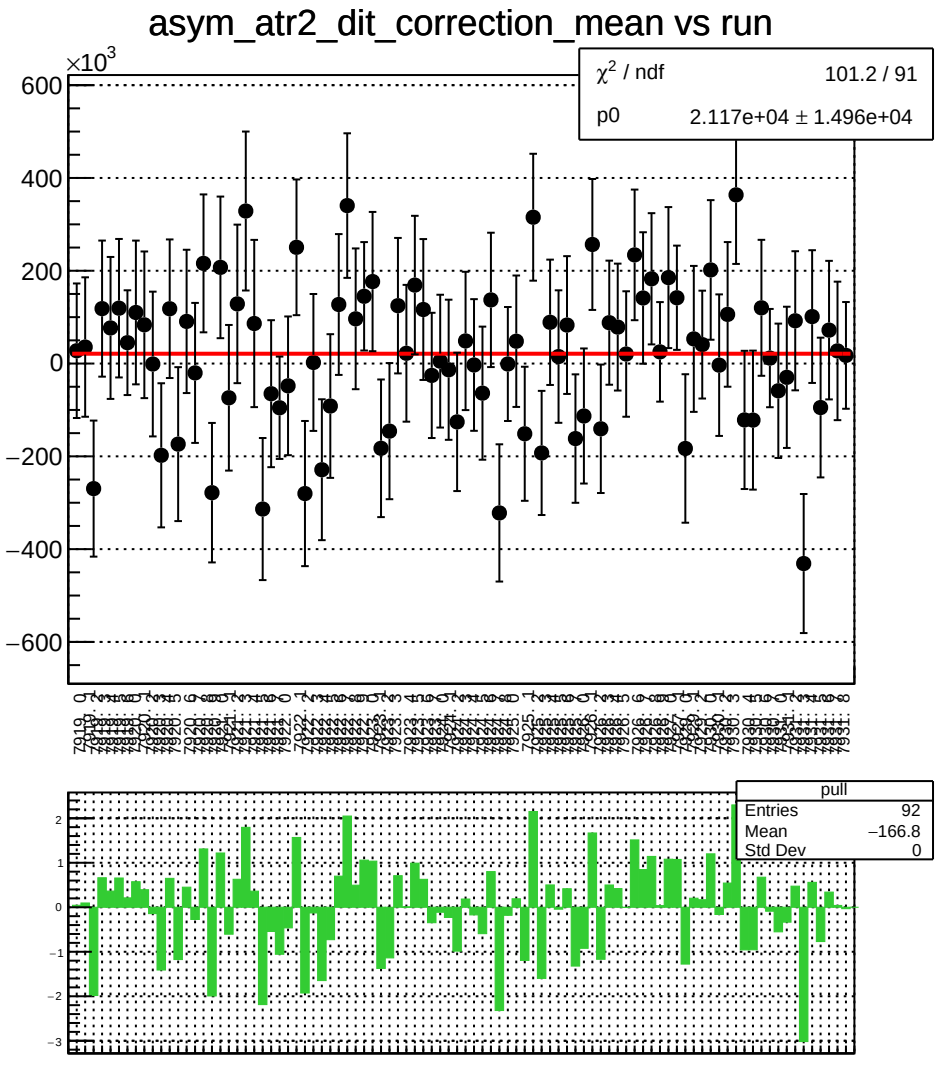

pull1D
Entries 92
Mean −0.005207
Std Dev 1.045

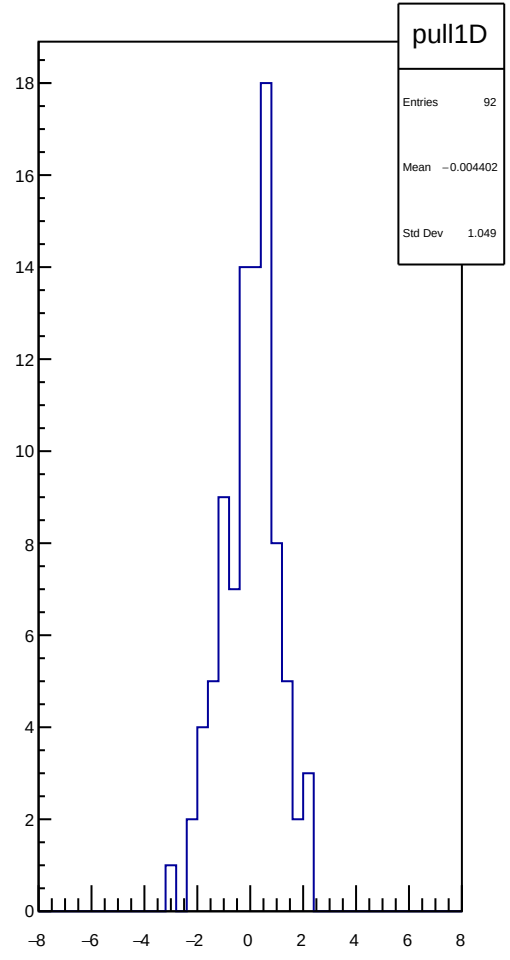

asym_atr2_eigen_cor_correction_rms vs run
χ² / ndf 4050 / 91
p0 1.392e+04 ± 10.44
17000
16000
15000
14000
13000
12000

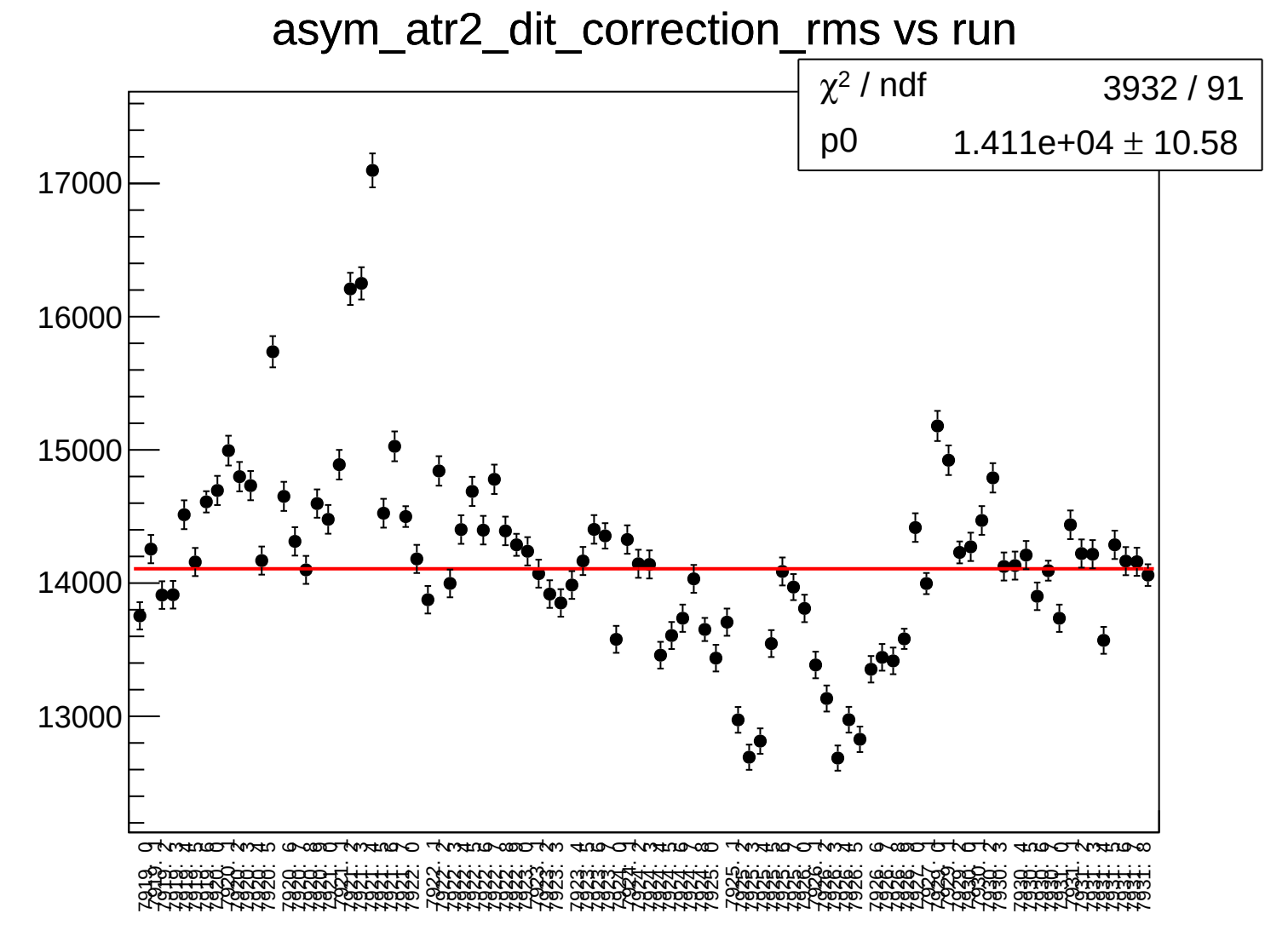

dit_asym_atr2_mean vs run
×10^3
χ² / ndf 96.62 / 91
p0 3380 ± 3007
pull
Entries 92
Mean 80.62
Std Dev 65.6

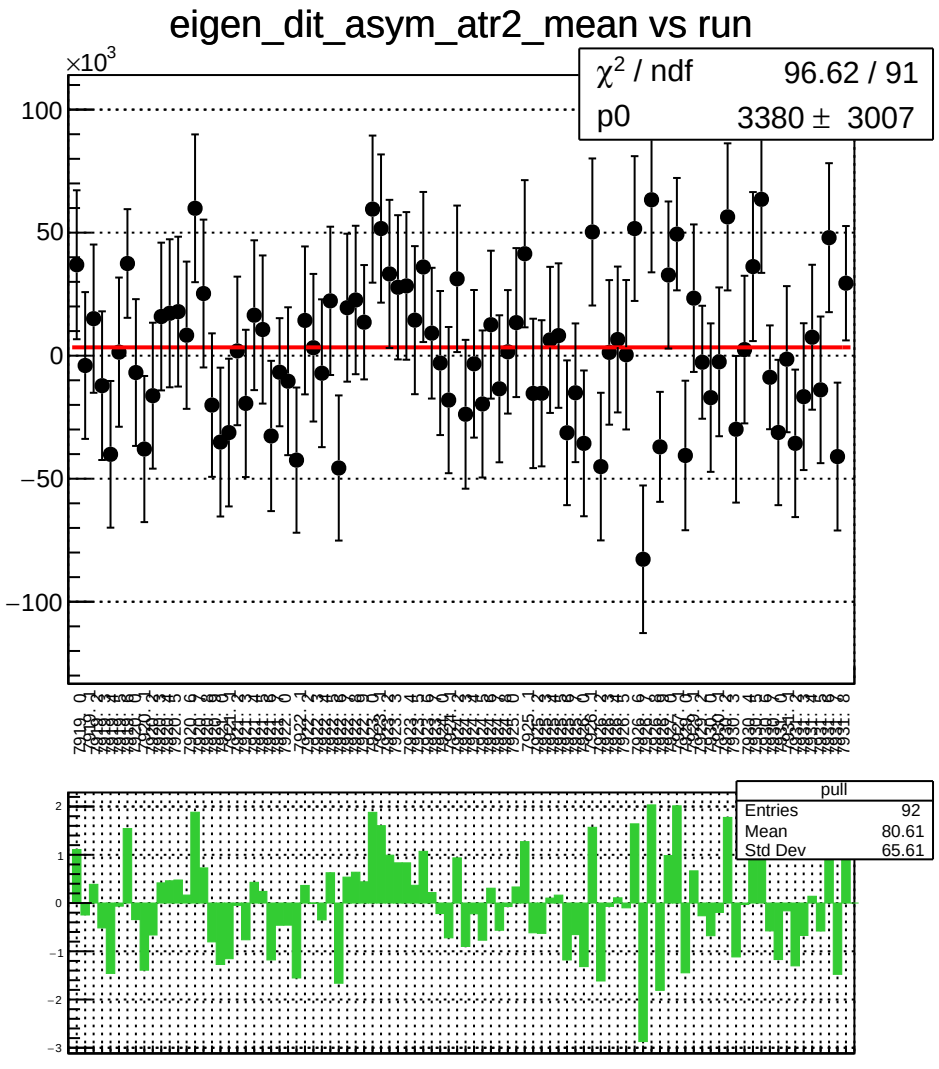

pull1D
Entries 92
Mean −0.004409
Std Dev 1.025

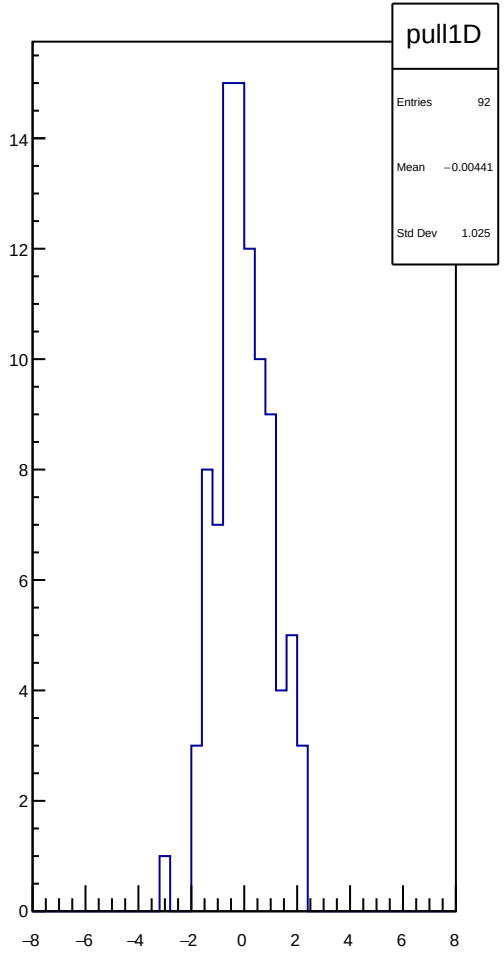

dit_asym_atr2_rms vs run
χ^2 / ndf 167.9 / 91
p0 2839 ± 2.126
2920
2900
2880
2860
2840
2820
2800
2780
2760

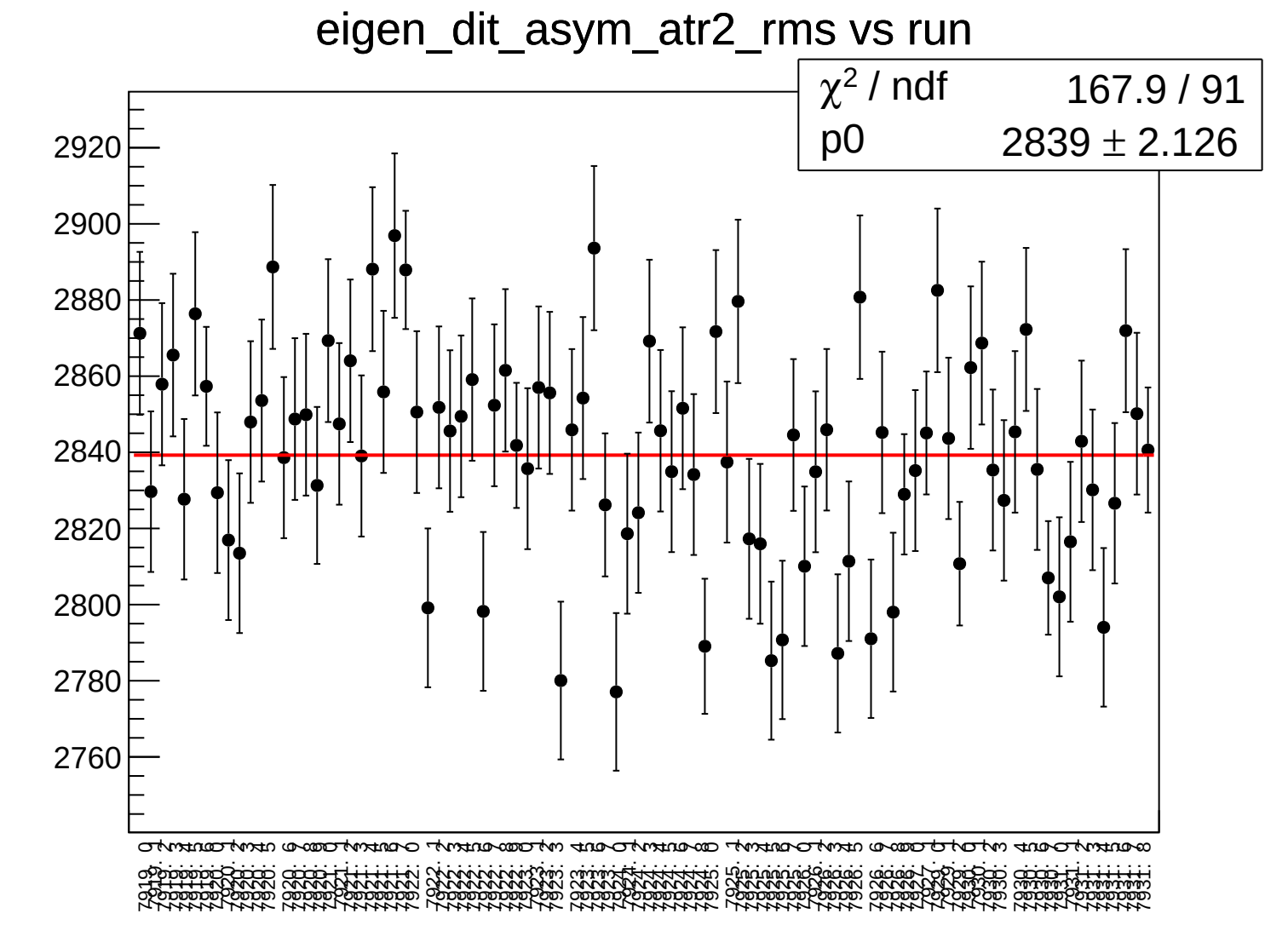

asym_atr2_dit_correction_mean vs run
×10^3
χ² / ndf 101.2 / 91
p0 2.117e+04 ± 1.496e+04
pull
Entries 92
Mean −166.8
Std Dev 0

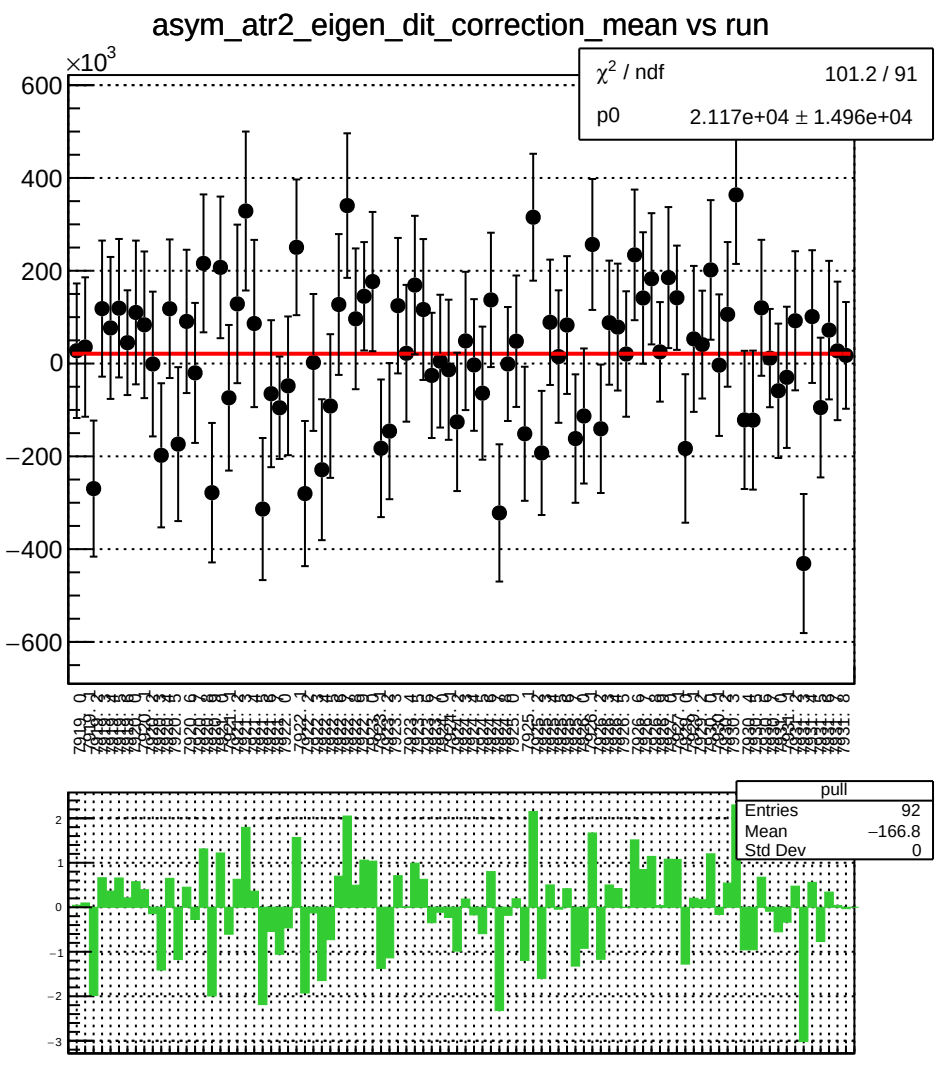

pull1D
Entries 92
Mean −0.004402
Std Dev 1.049

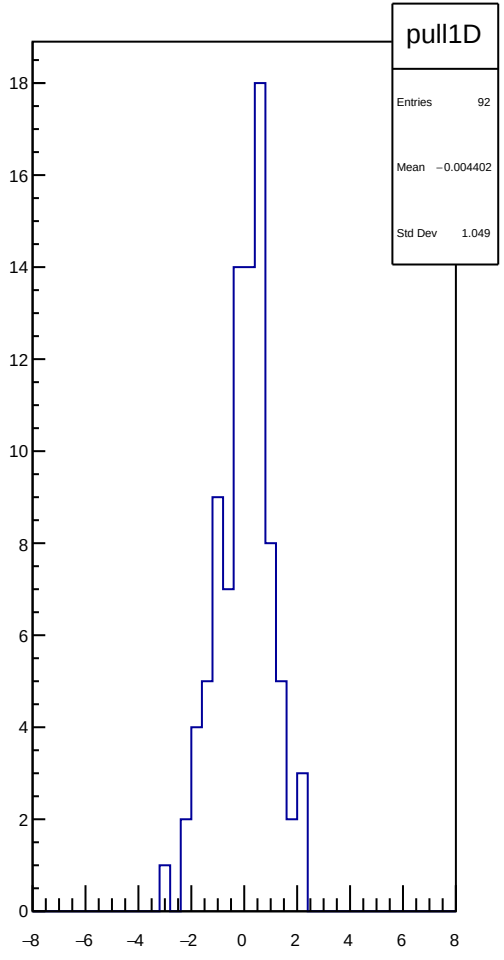

asym_atr2_dit_correction_rms vs run
χ² / ndf 3932 / 91
p0 1.411e+04 ± 10.58
17000
16000
15000
14000
13000

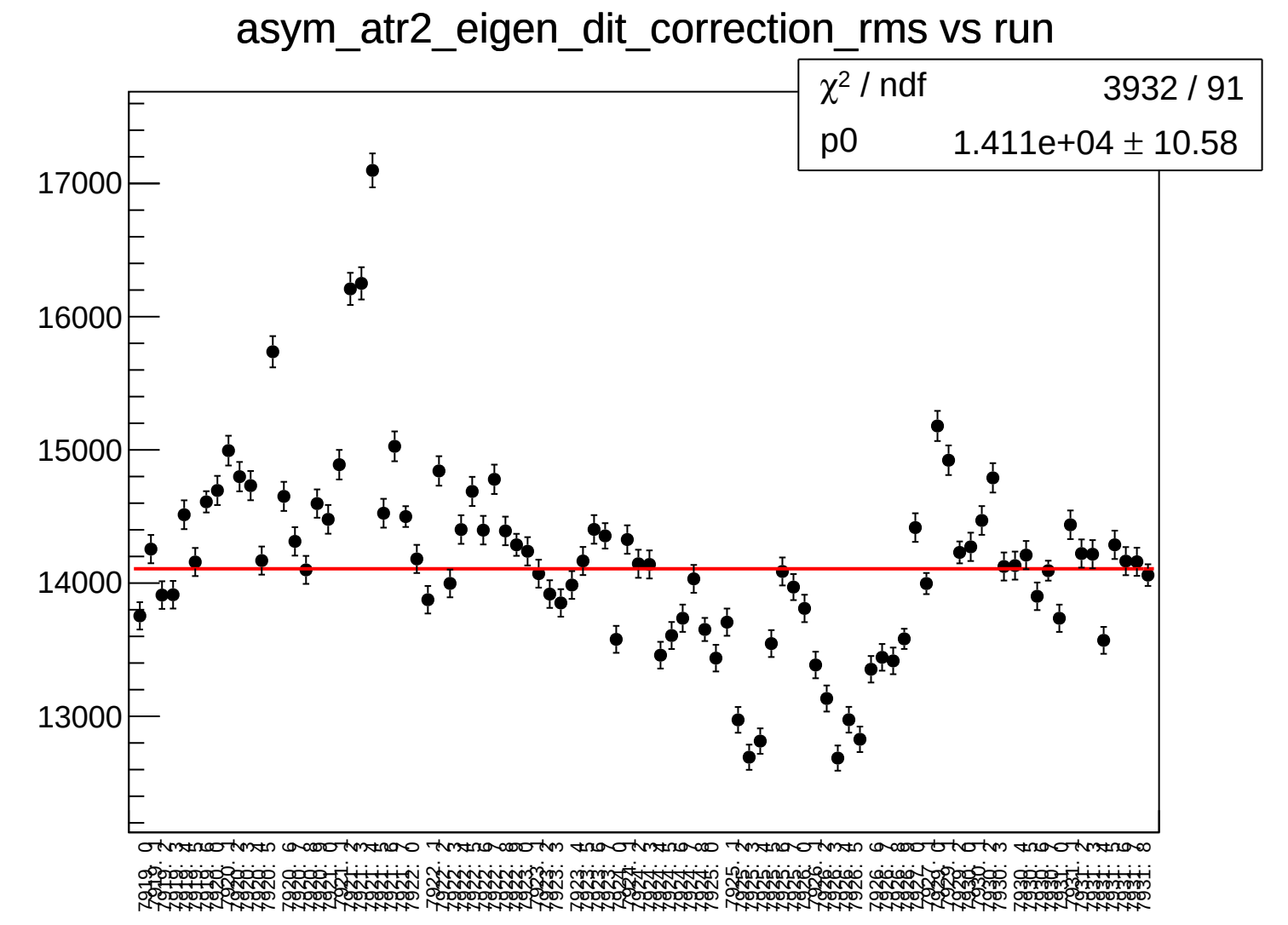

eigen_dit_asym_atr2_mean vs run
×10^3
χ² / ndf 96.62 / 91
p0 3380 ± 3007
100
50
0
−50
−100
pull
Entries 92
Mean 80.61
Std Dev 65.61
2
1
0
−1
−2
−3

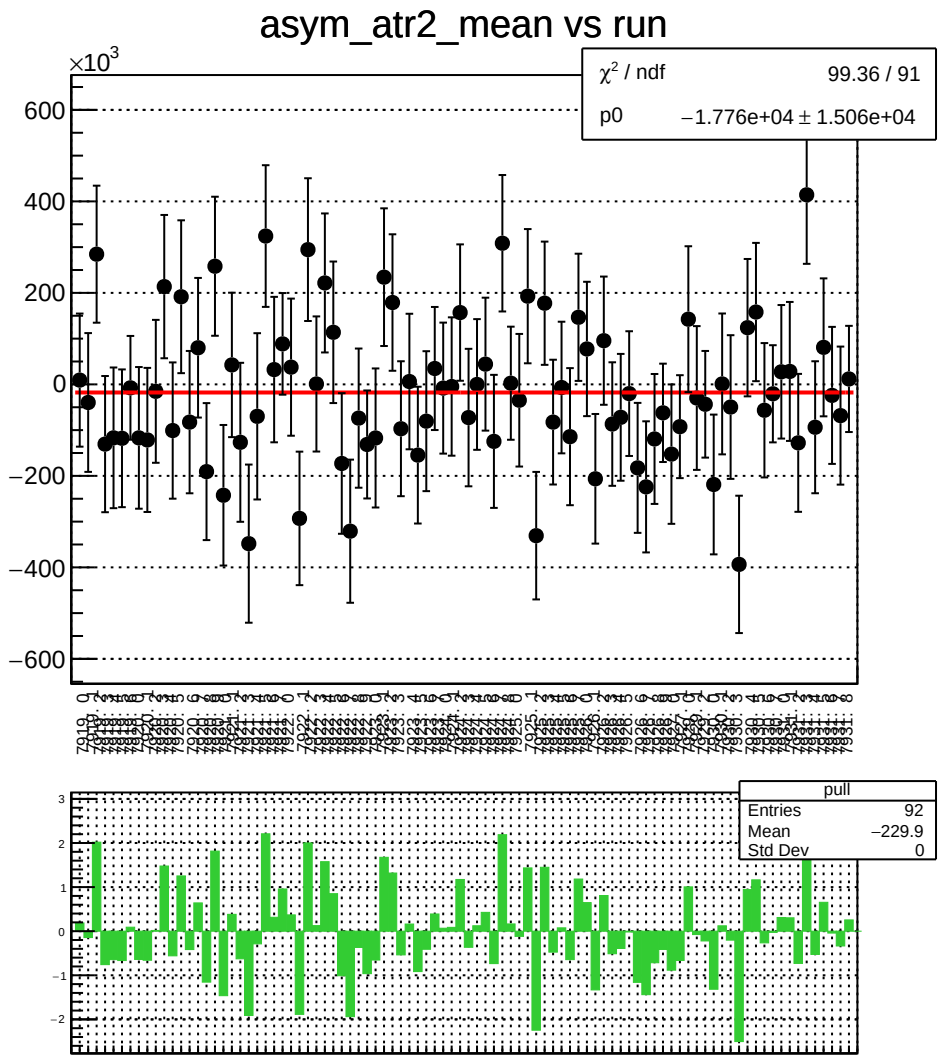

pull1D
Entries 92
Mean −0.00441
Std Dev 1.025
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

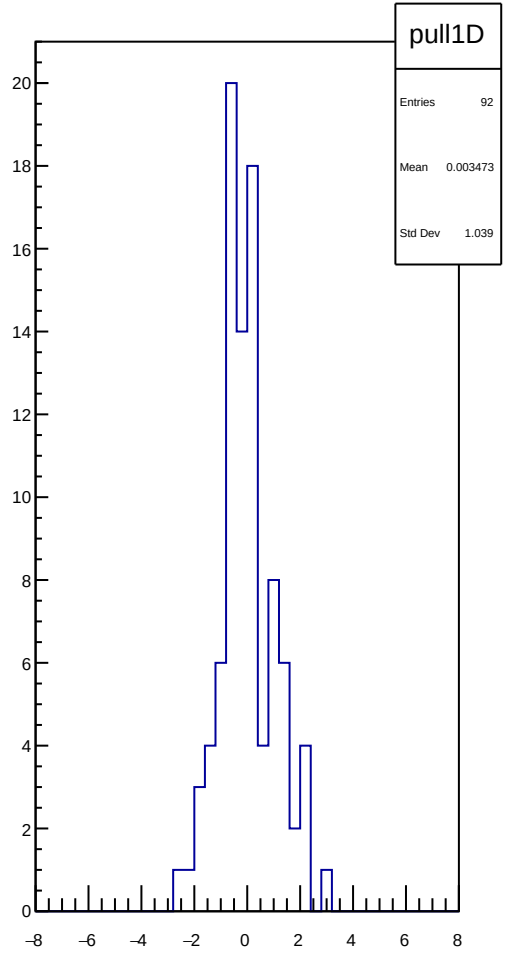

eigen_dit_asym_atr2_rms vs run
χ^2 / ndf 167.9 / 91
p0 2839 ± 2.126
2920
2900
2880
2860
2840
2820
2800
2780
2760

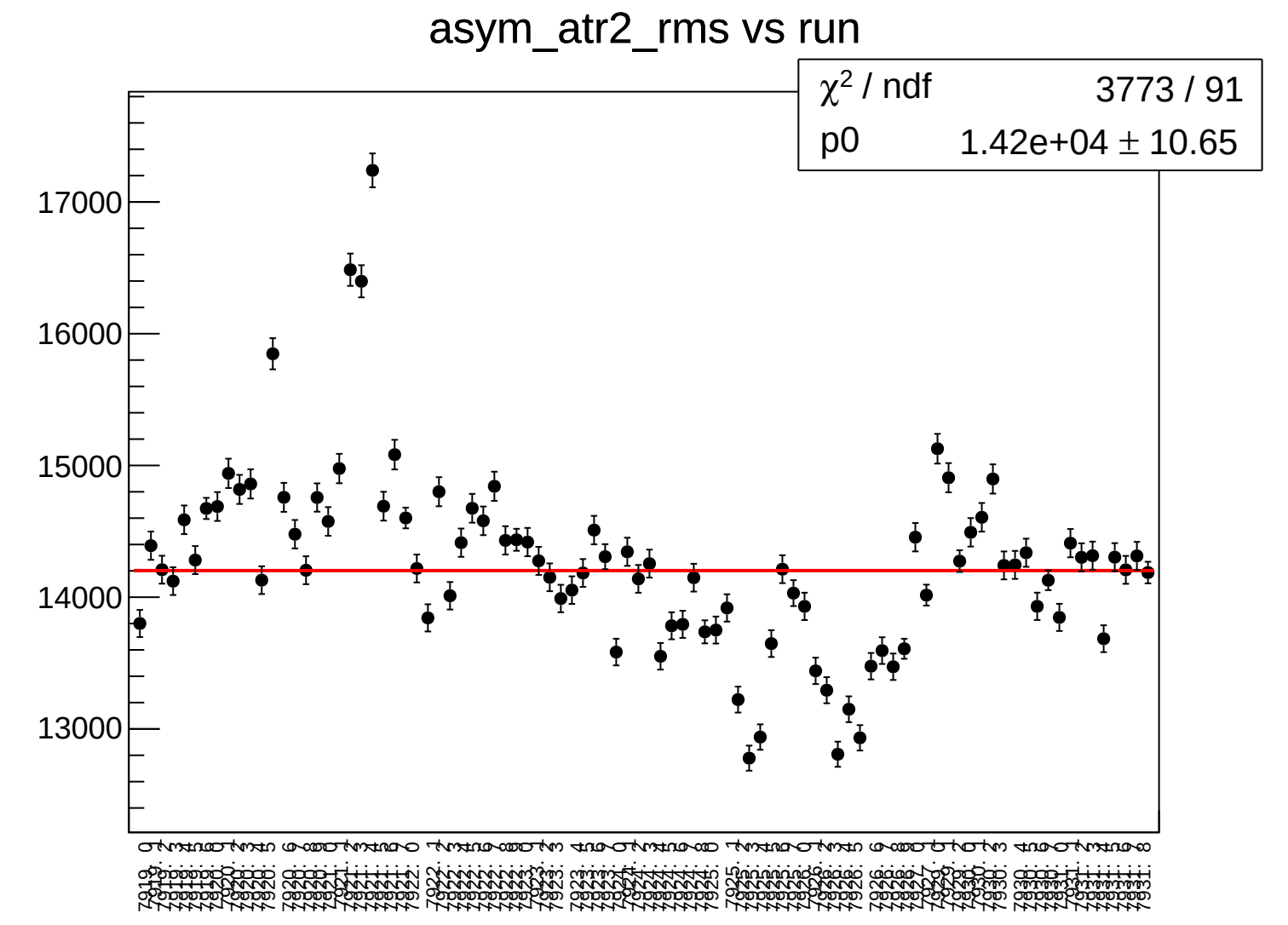

asym_atr2_eigen_dit_correction_mean vs run
×10^3
600
400
200
0
−200
−400
−600
χ² / ndf 101.2 / 91
p0 2.117e+04 ± 1.496e+04
pull
Entries 92
Mean −166.8
Std Dev 0
2
1
0
−1
−2
−3

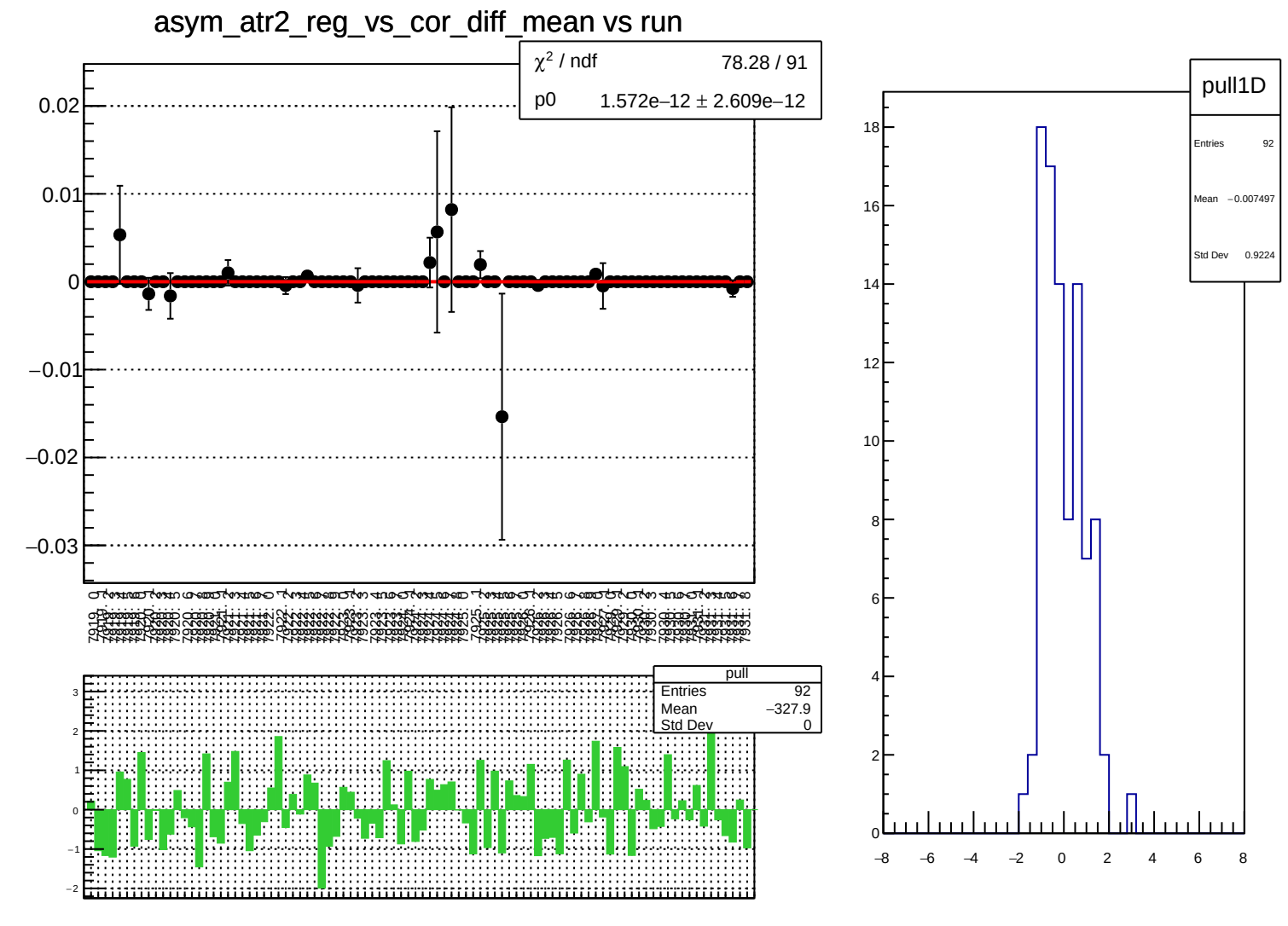

pull1D
Entries 92
Mean −0.004402
Std Dev 1.049
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

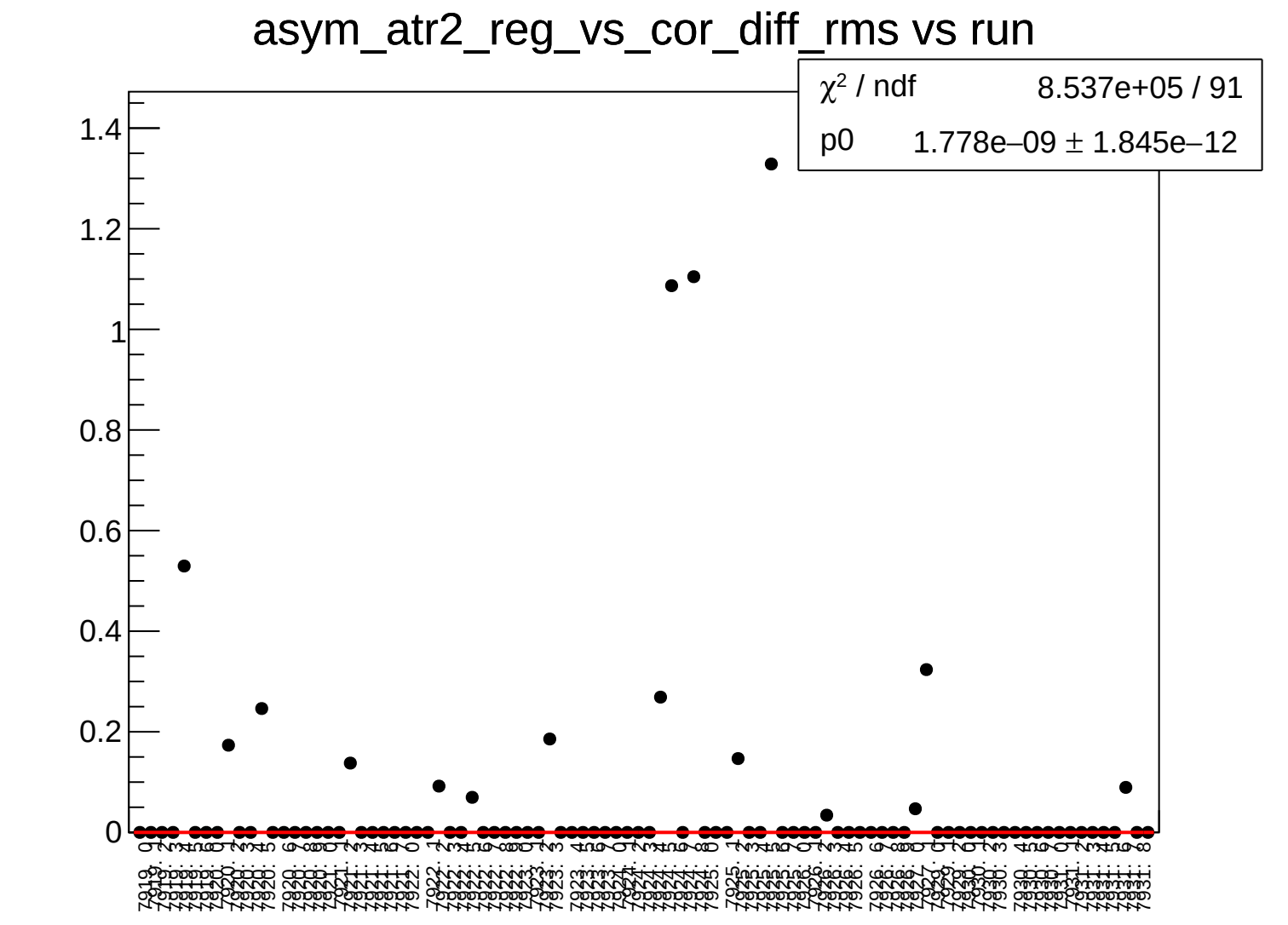

asym_atr2_eigen_dit_correction_rms vs run
χ² / ndf 3932 / 91
p0 1.411e+04 ± 10.58
17000
16000
15000
14000
13000

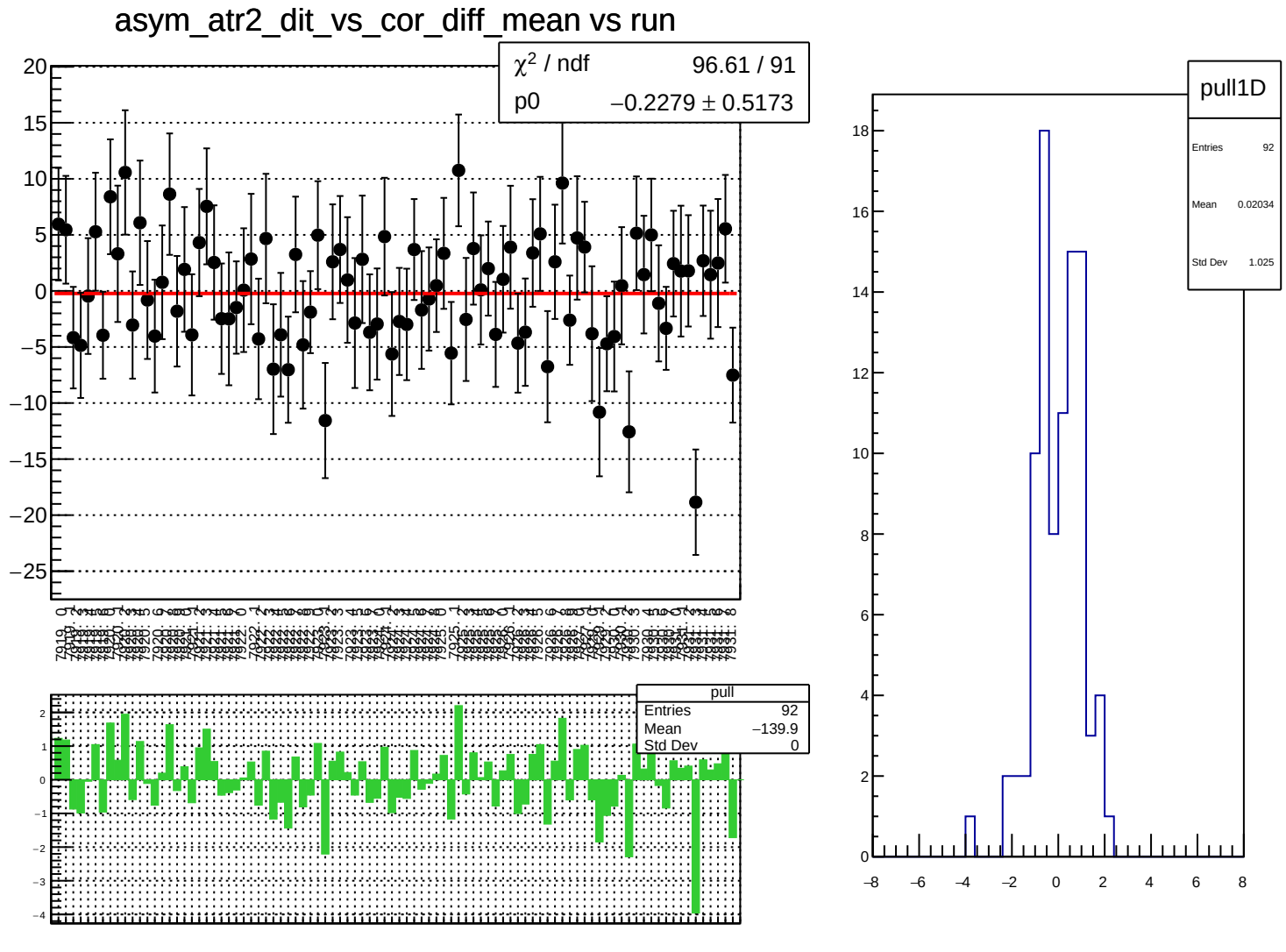

asym_atr2_mean vs run
×10^3
χ² / ndf 99.36 / 91
p0 −1.776e+04 ± 1.506e+04
pull
Entries 92
Mean −229.9
Std Dev 0

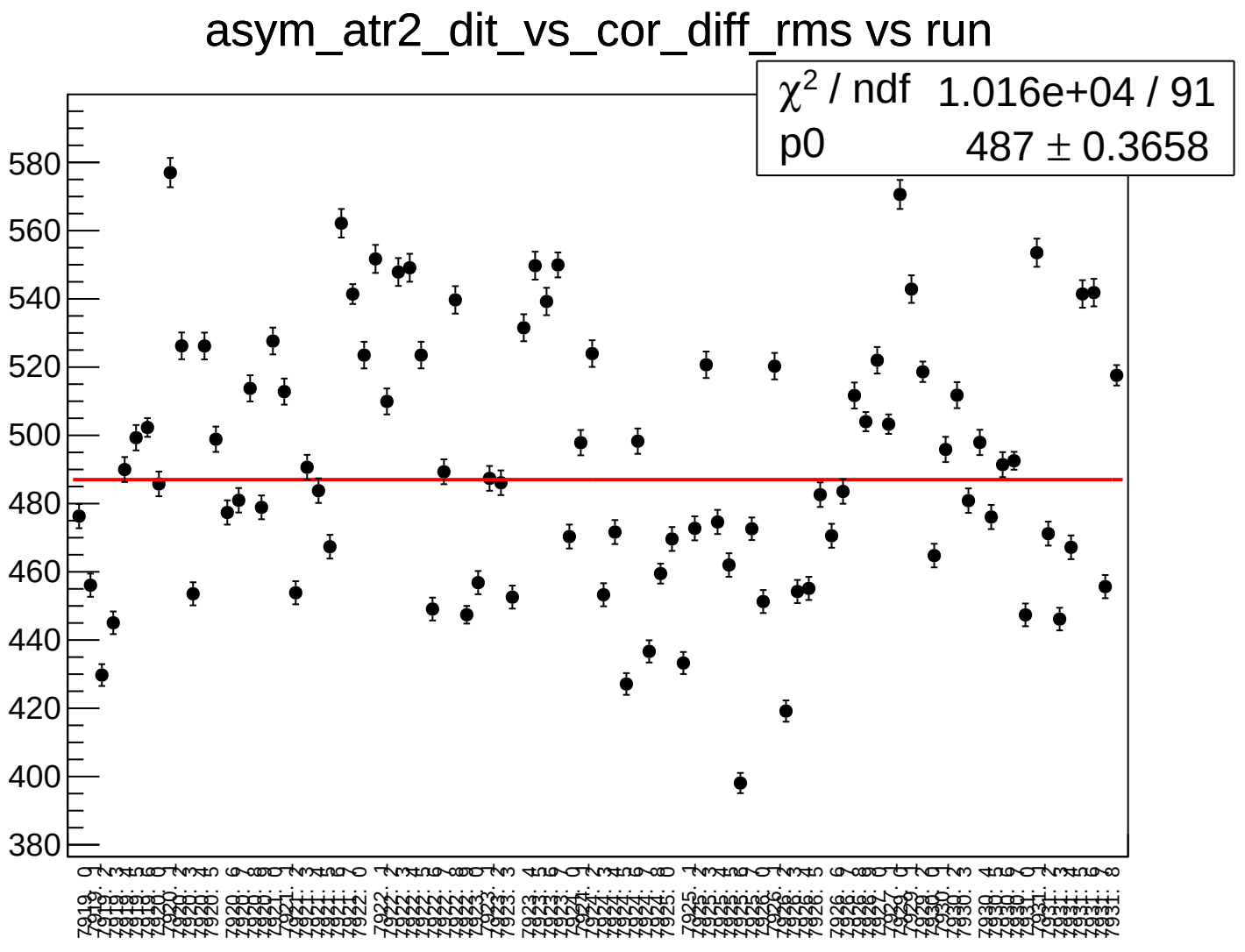

pull1D
Entries 92
Mean 0.003473
Std Dev 1.039

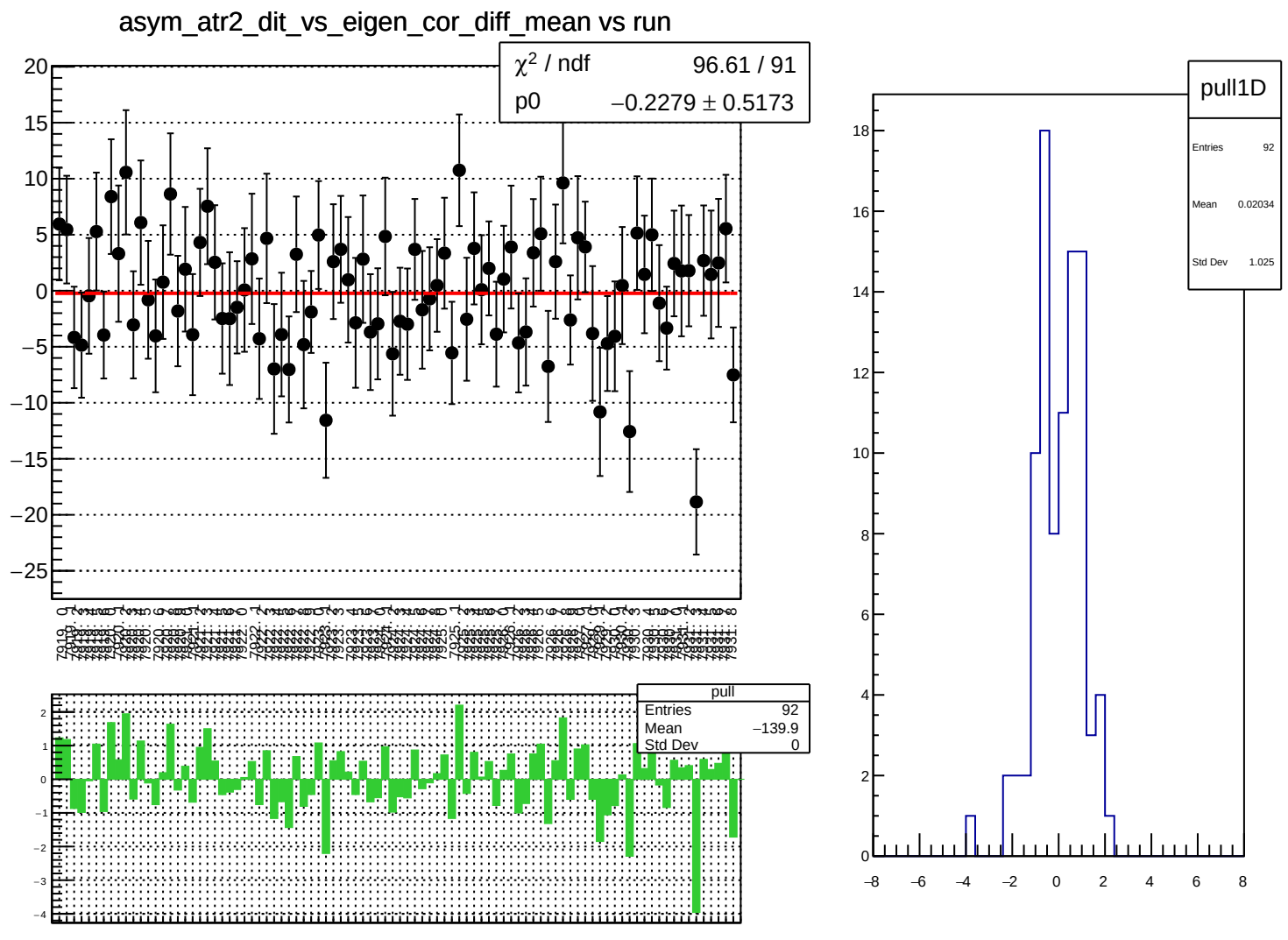

asym_atr2_rms vs run
χ^2 / ndf 3773 / 91
p0 1.42e+04 ± 10.65
17000
16000
15000
14000
13000

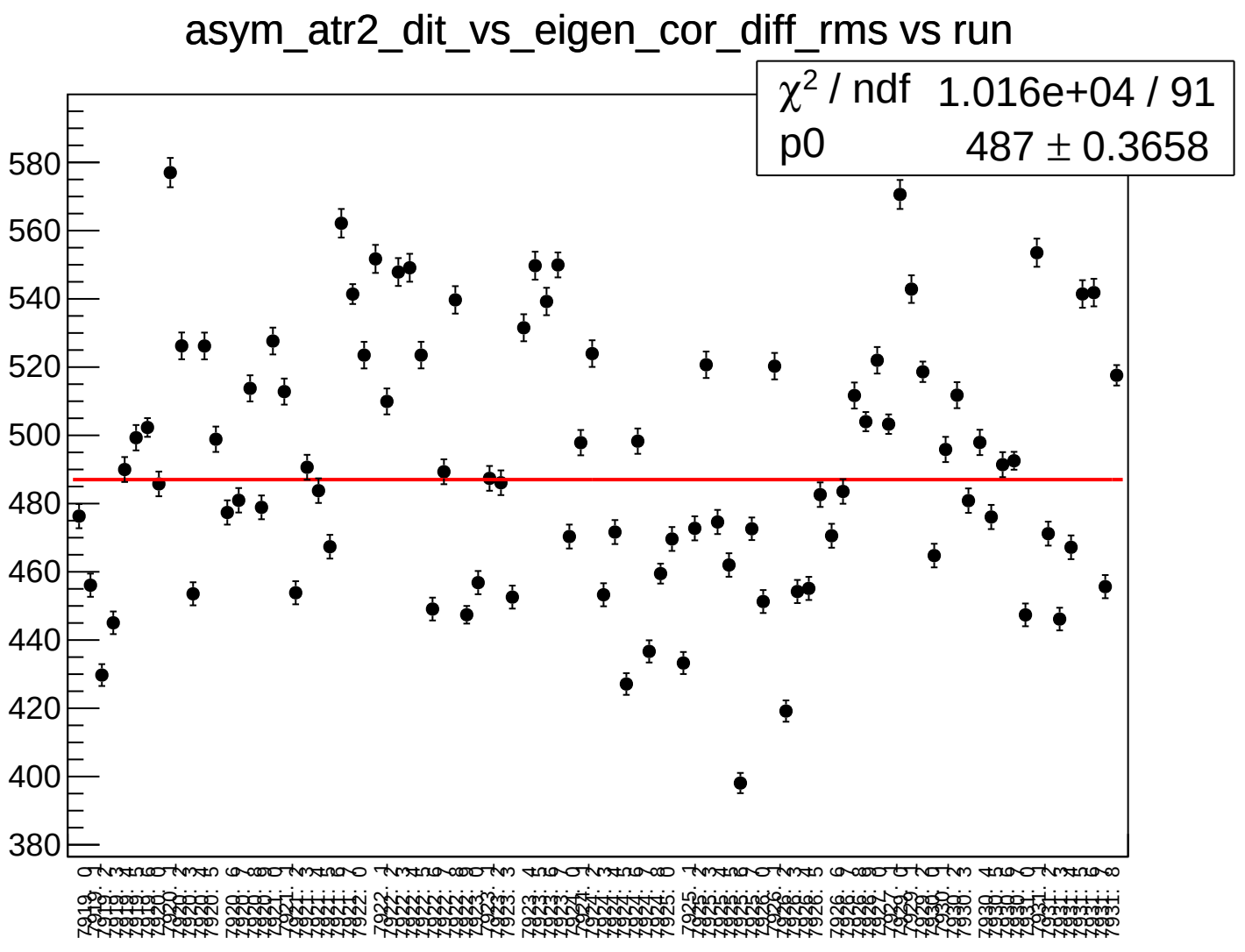

asym_atr2_reg_vs_cor_diff_mean vs run
χ² / ndf 78.28 / 91
p0 1.572e−12 ± 2.609e−12
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 92
Mean −327.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.007497
Std Dev 0.9224
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

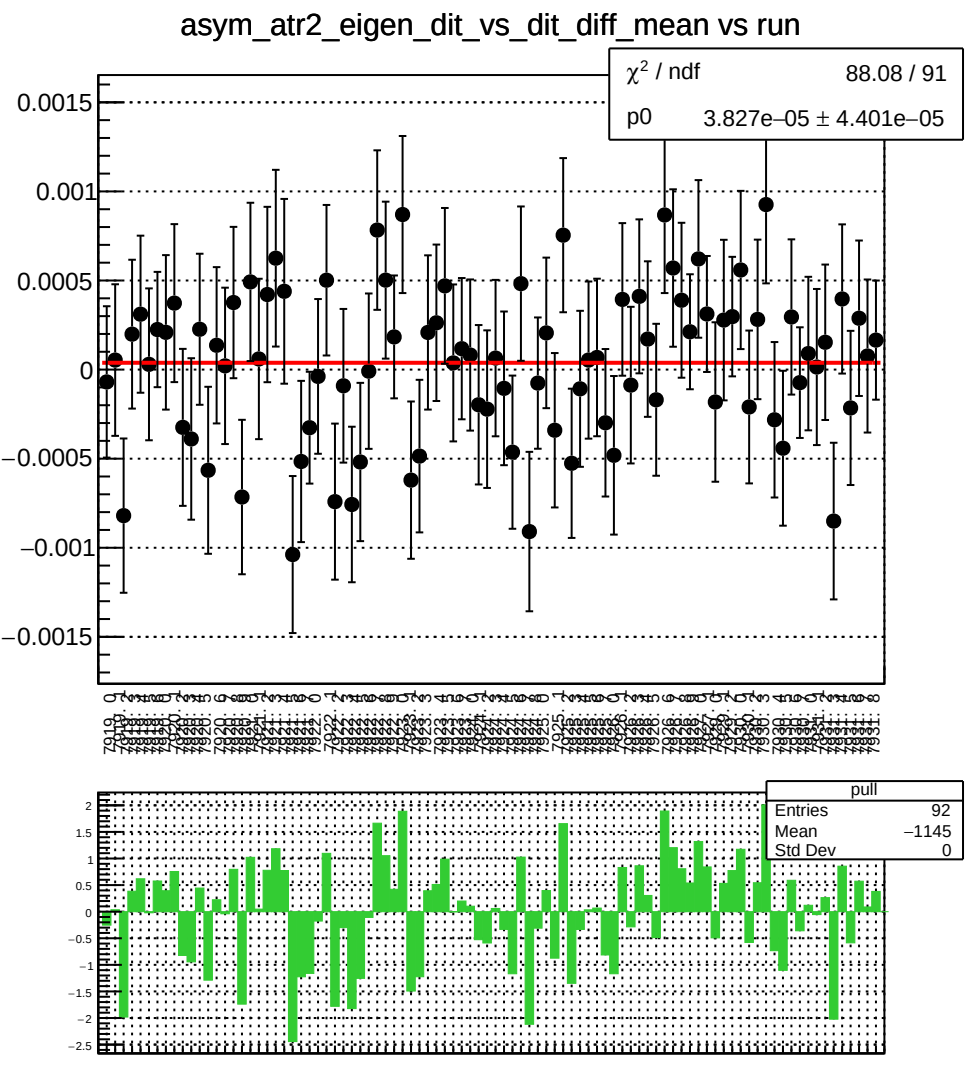

asym_atr2_reg_vs_cor_diff_rms vs run
χ² / ndf 8.537e+05 / 91
p0 1.778e−09 ± 1.845e−12
1.4
1.2
1
0.8
0.6
0.4
0.2
0

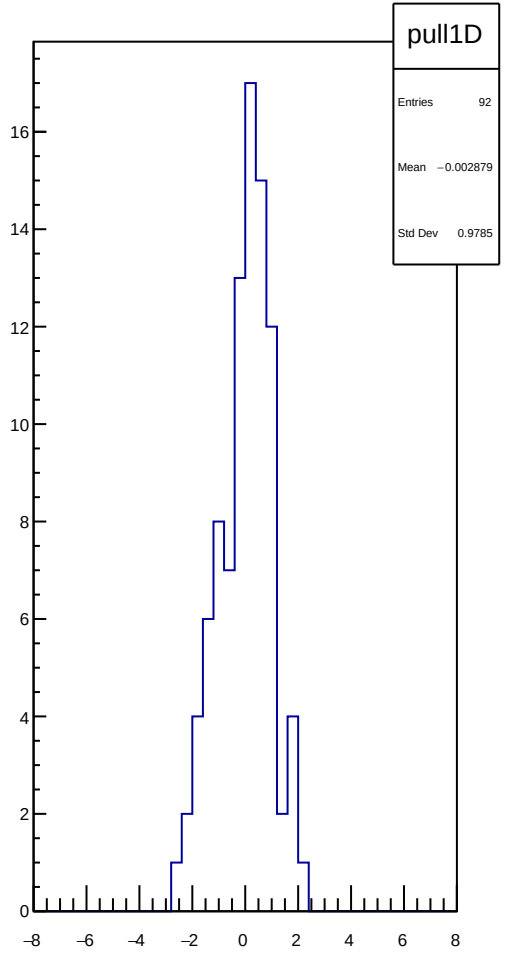

asym_atr2_dit_vs_cor_diff_mean vs run
χ² / ndf 96.61 / 91
p0 −0.2279 ± 0.5173
pull
Entries 92
Mean −139.9
Std Dev 0
pull1D
Entries 92
Mean 0.02034
Std Dev 1.025

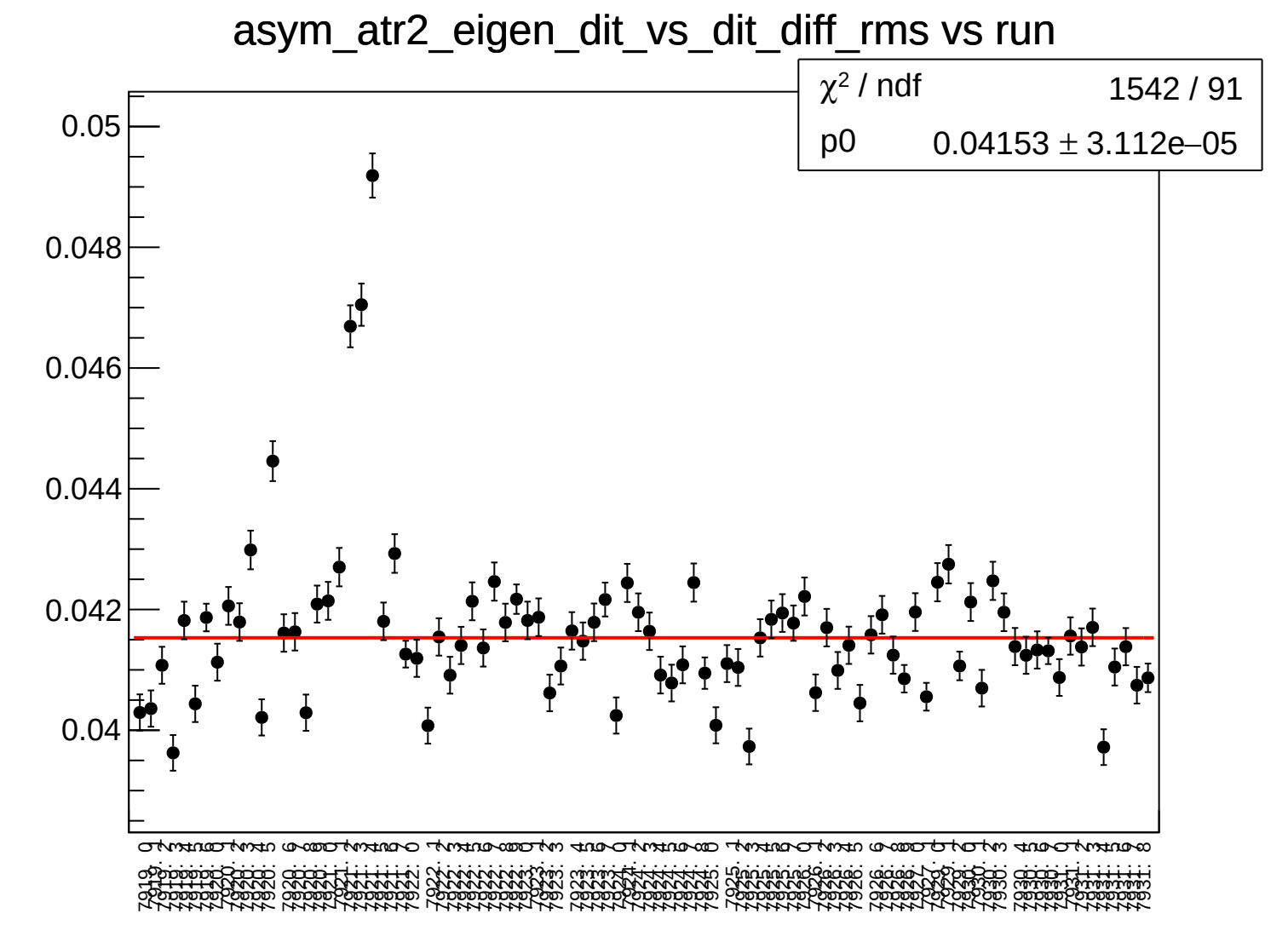

asym_atr2_dit_vs_cor_diff_rms vs run
χ² / ndf 1.016e+04 / 91
p0 487 ± 0.3658
580
560
540
520
500
480
460
440
420
400
380

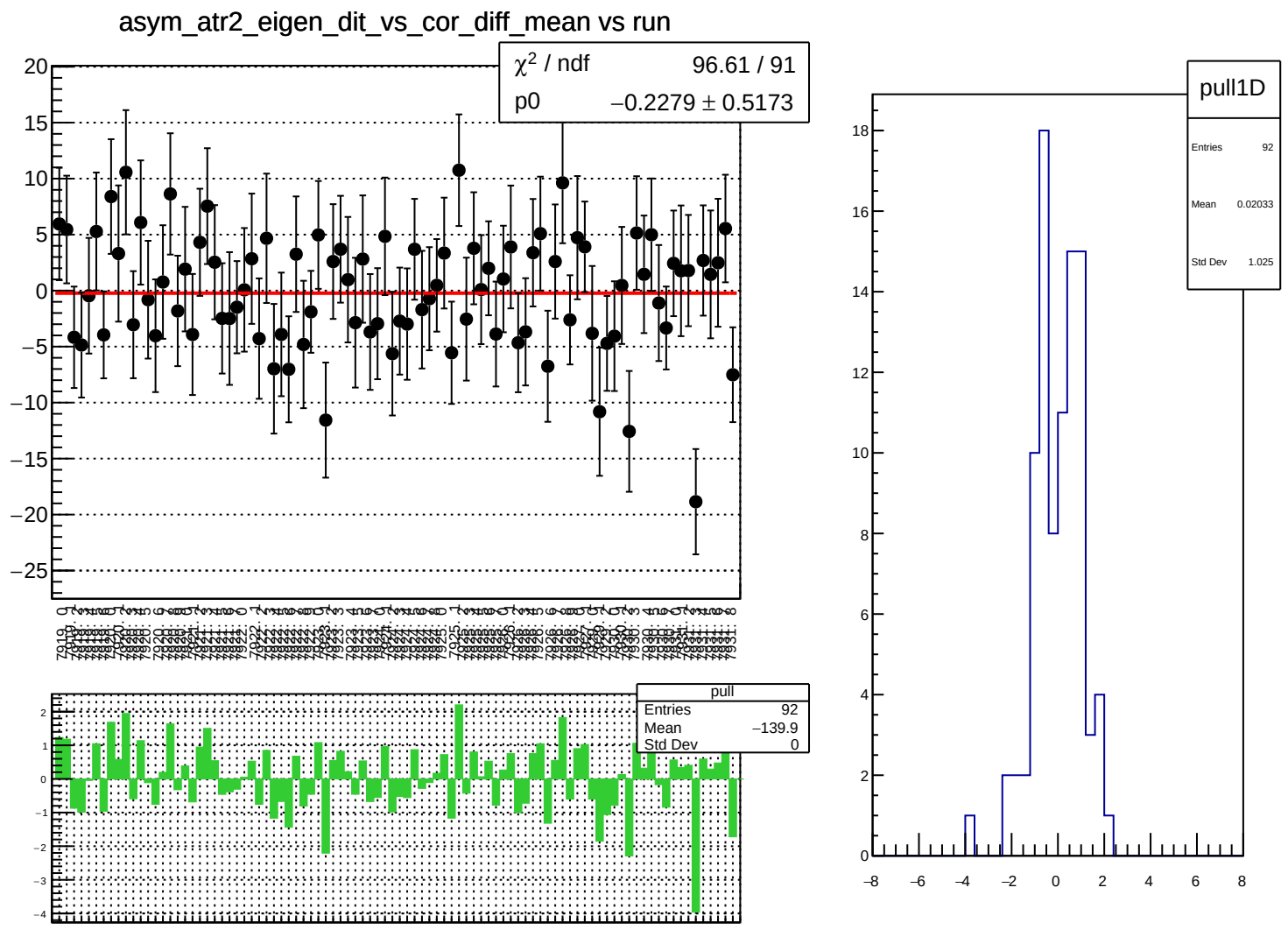

asym_atr2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.61 / 91
p0 −0.2279 ± 0.5173
pull
Entries 92
Mean −139.9
Std Dev 0
pull1D
Entries 92
Mean 0.02034
Std Dev 1.025

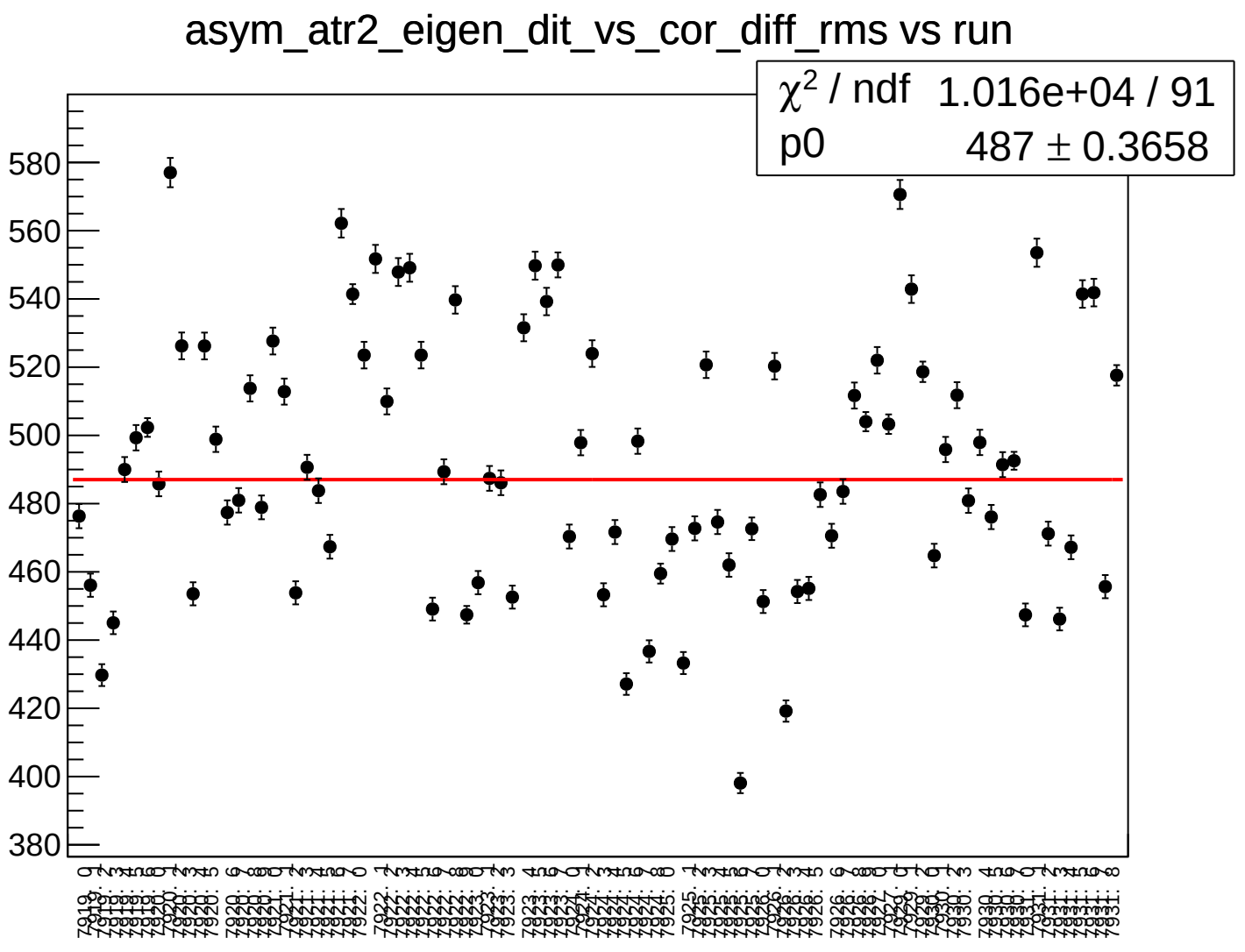

asym_atr2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.016e+04 / 91
p0 487 ± 0.3658
580
560
540
520
500
480
460
440
420
400
380

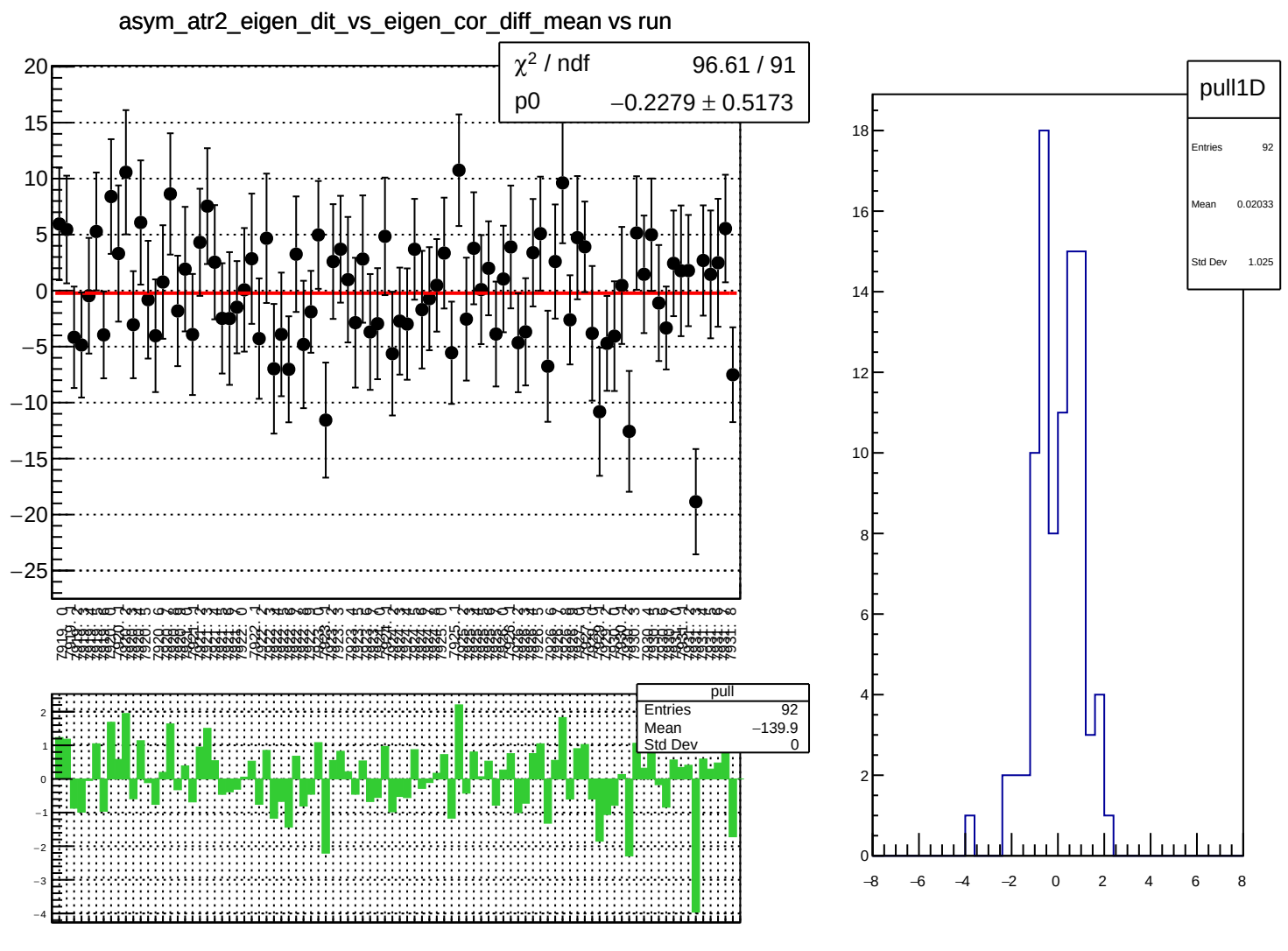

asym_atr2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 88.08 / 91
p0 3.827e−05 ± 4.401e−05
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 92
Mean −1145
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

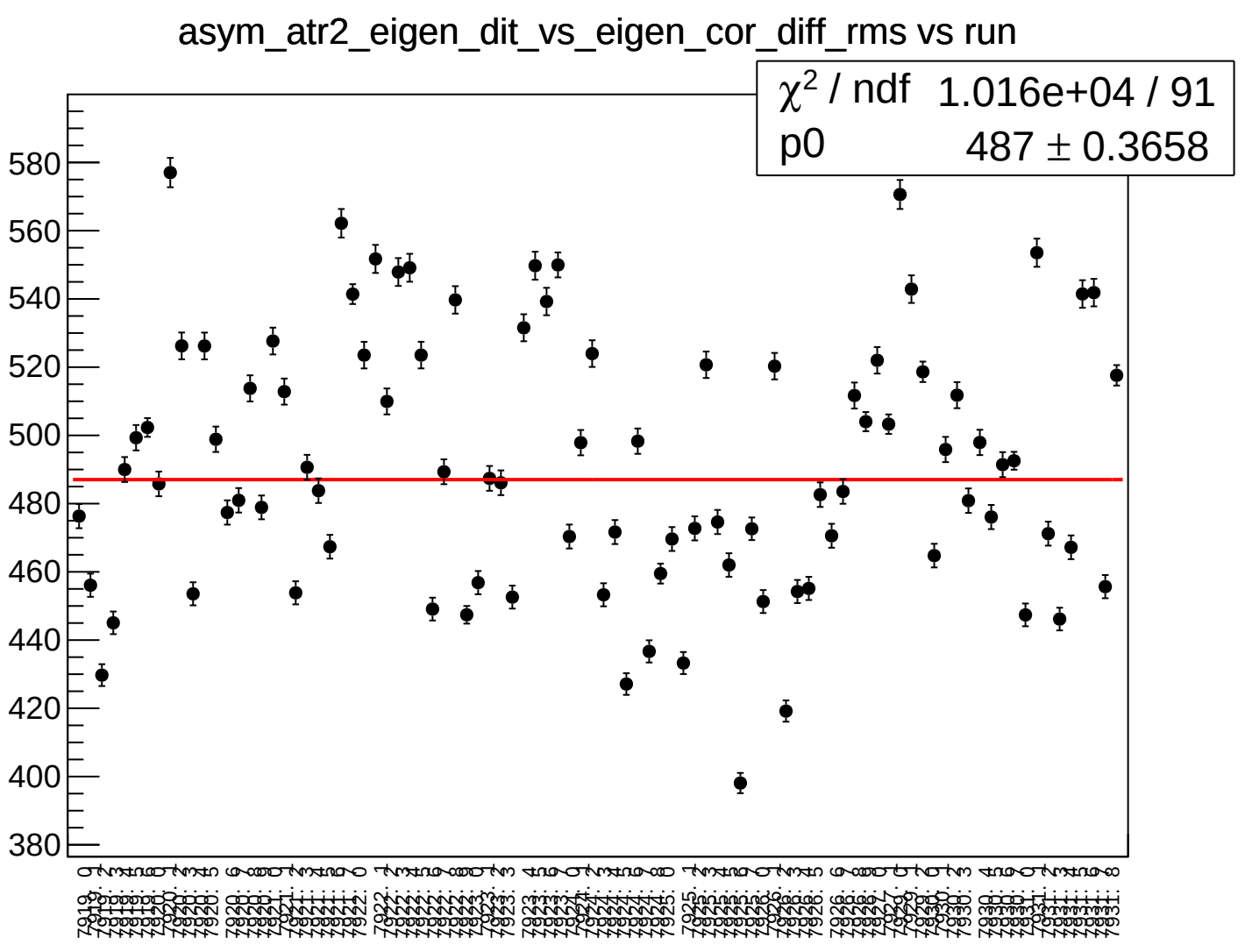

pull1D
Entries 92
Mean −0.002879
Std Dev 0.9785
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

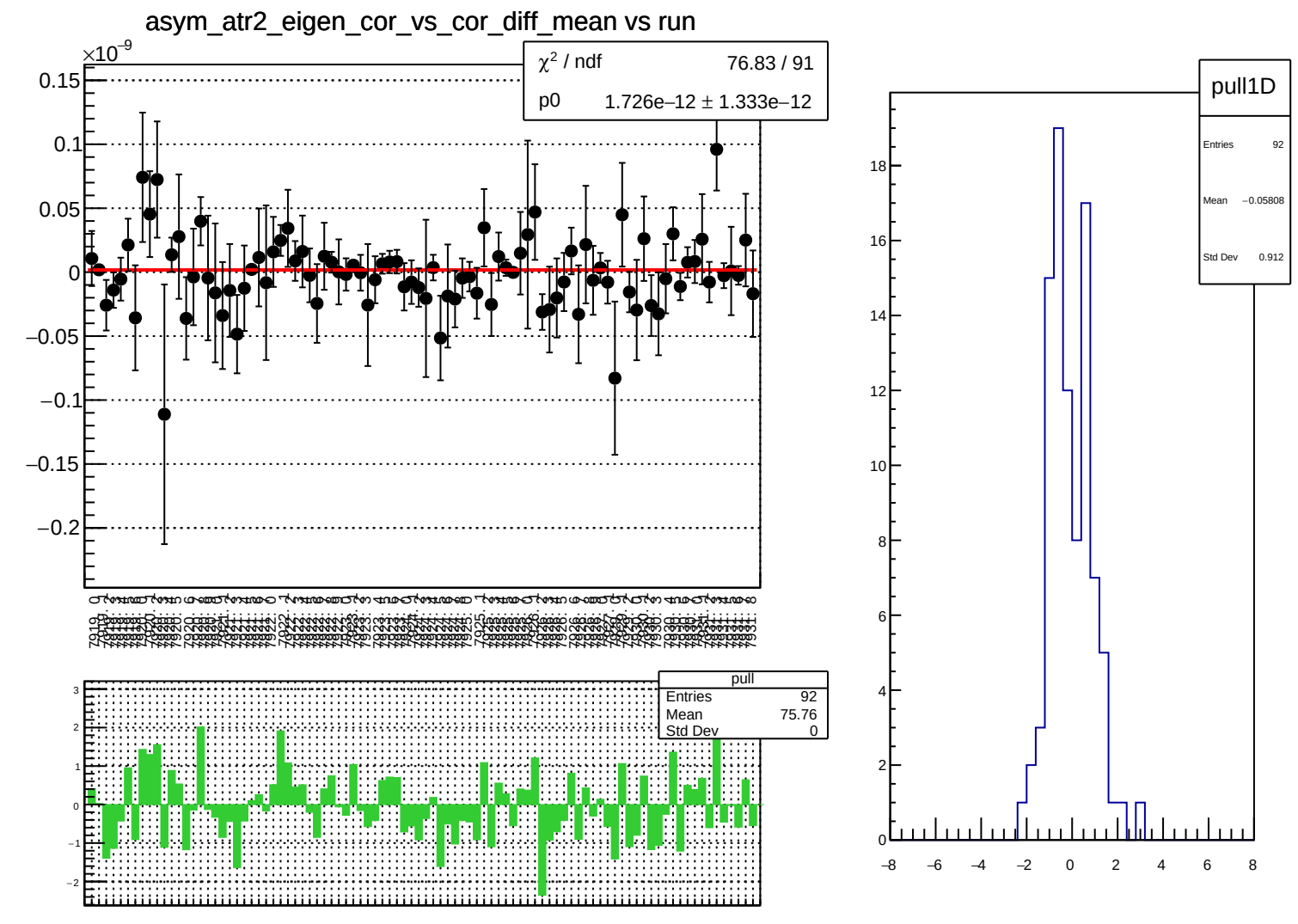

asym_atr2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1542 / 91
p0 0.04153 ± 3.112e–05
0.05
0.048
0.046
0.044
0.042
0.04

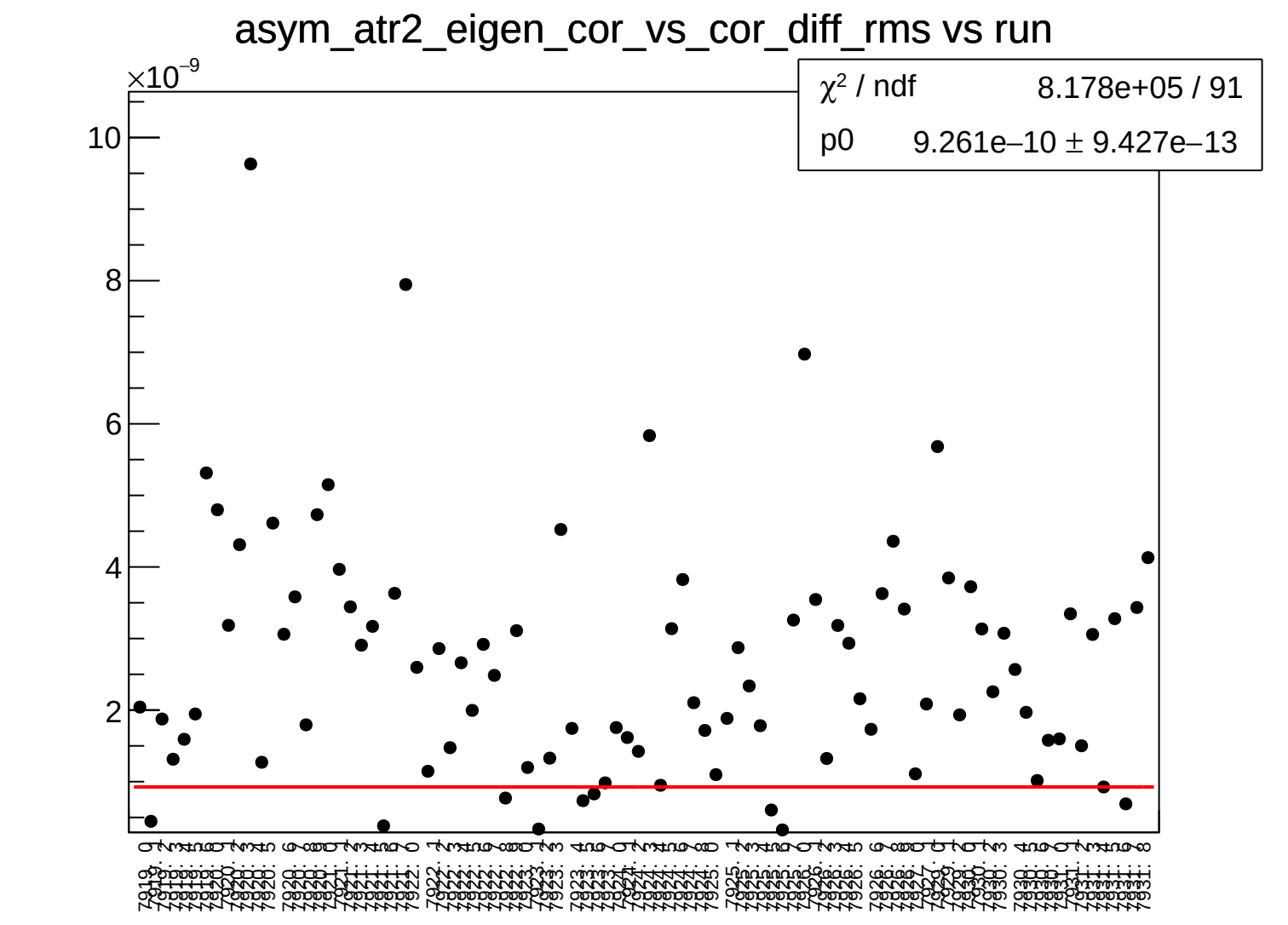

asym_atr2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 96.61 / 91
p0 −0.2279 ± 0.5173
pull
Entries 92
Mean −139.9
Std Dev 0
pull1D
Entries 92
Mean 0.02033
Std Dev 1.025

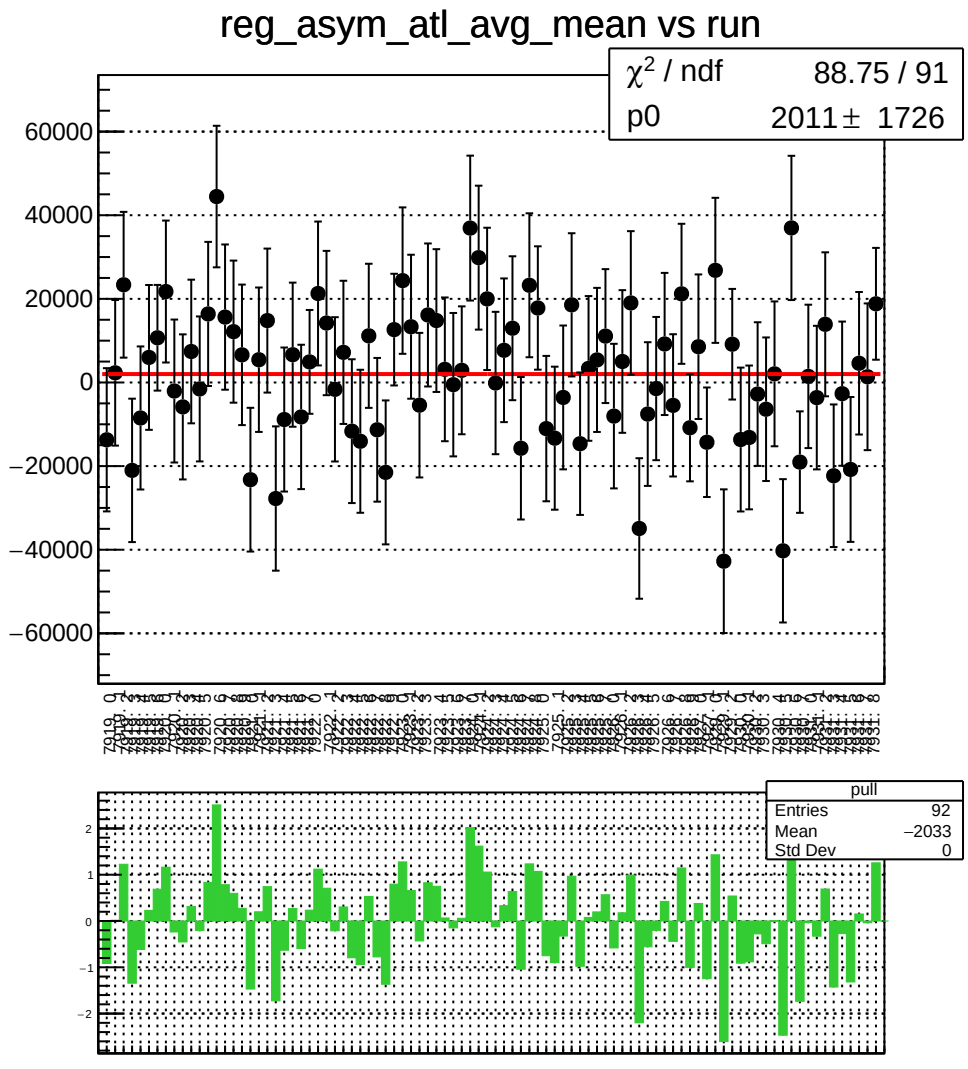

asym_atr2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.016e+04 / 91
p0 487 ± 0.3658
580
560
540
520
500
480
460
440
420
400
380

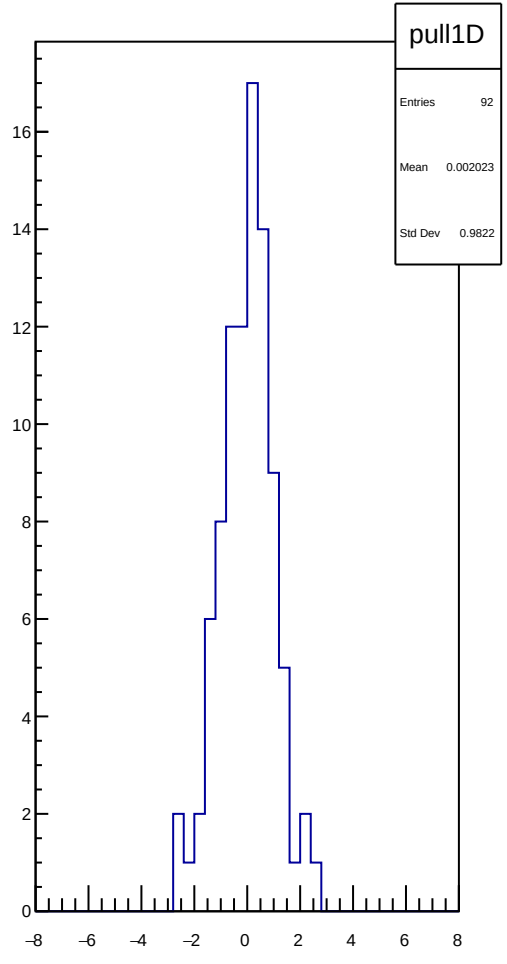

asym_atr2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.61 / 91
p0 −0.2279 ± 0.5173
pull
Entries 92
Mean −139.9
Std Dev 0
pull1D
Entries 92
Mean 0.02033
Std Dev 1.025

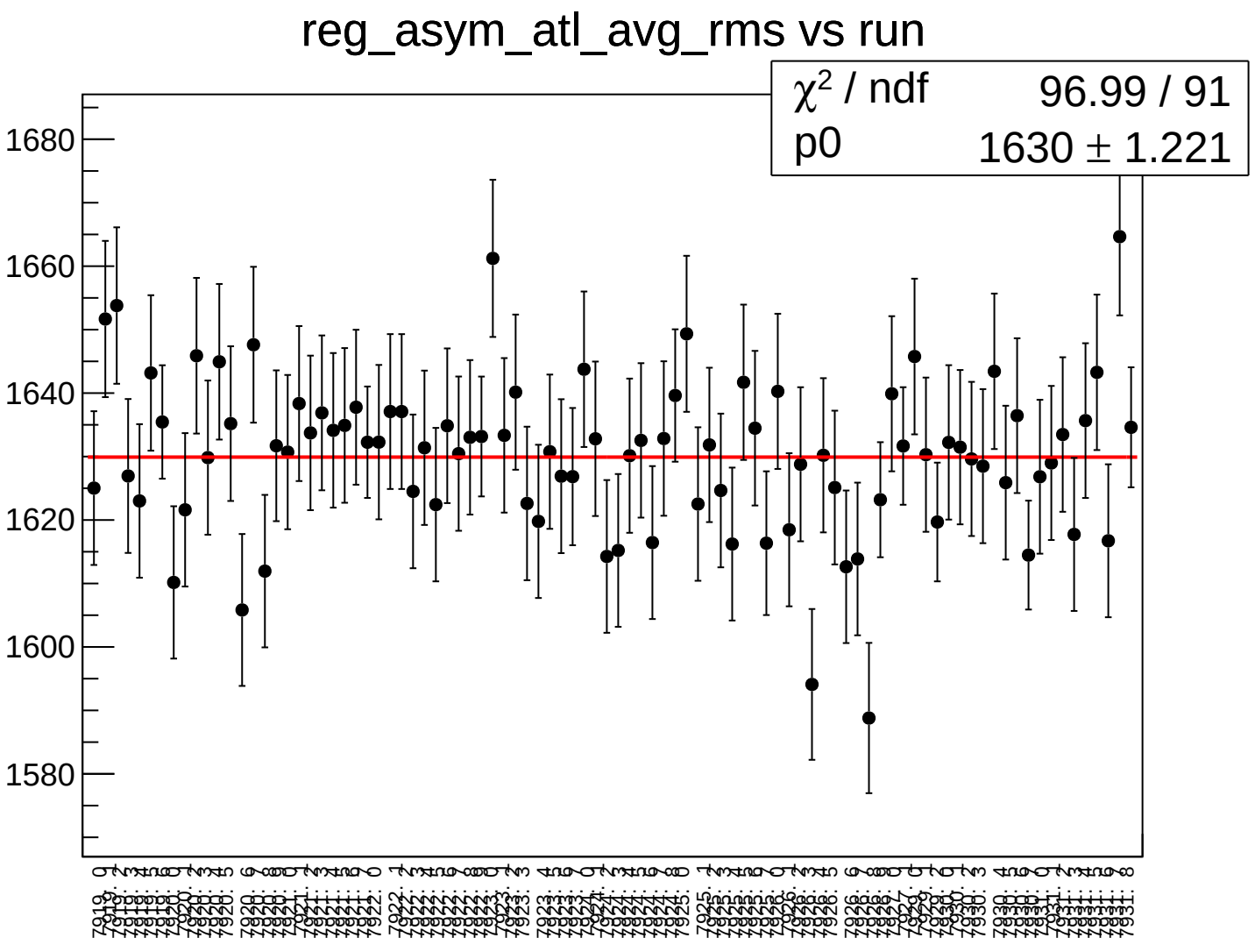

asym_atr2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.016e+04 / 91
p0 487 ± 0.3658
580
560
540
520
500
480
460
440
420
400
380

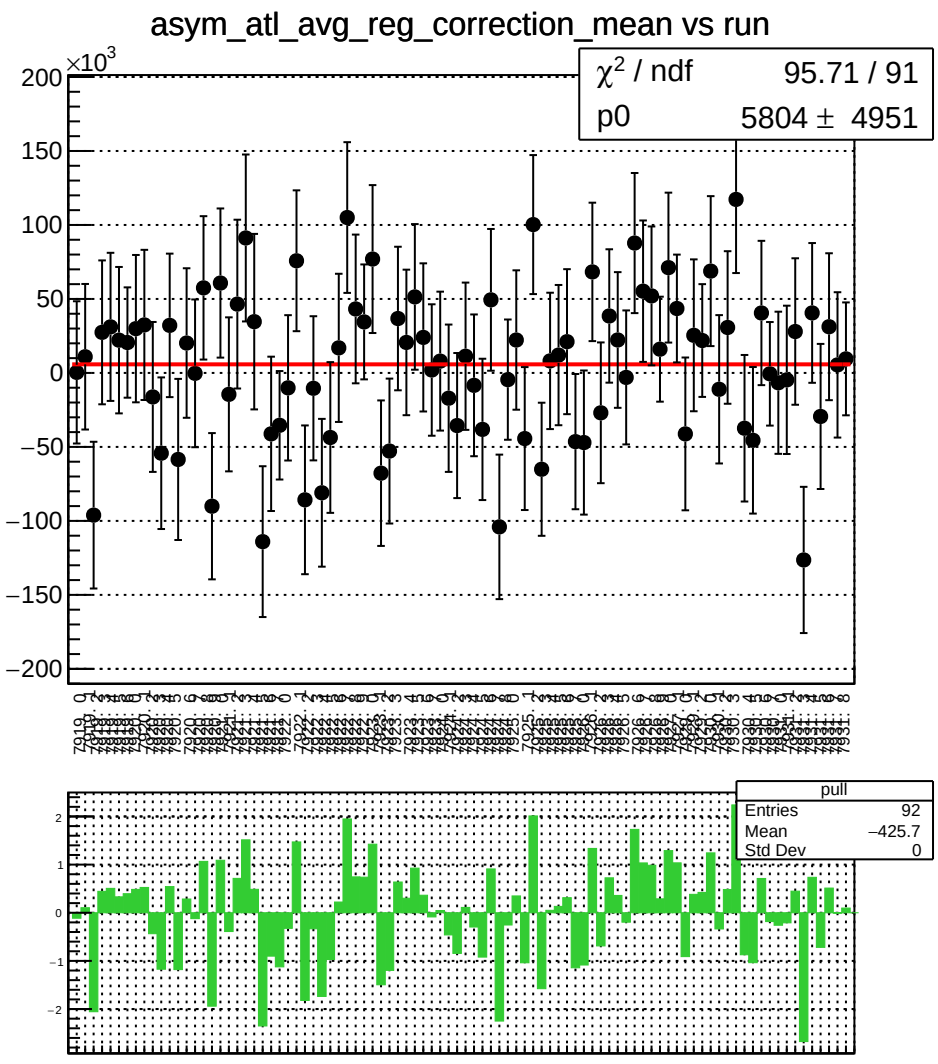

asym_atr2_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 76.83 / 91
p0 1.726e−12 ± 1.333e−12
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
pull
Entries 92
Mean 75.76
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.05808
Std Dev 0.912
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

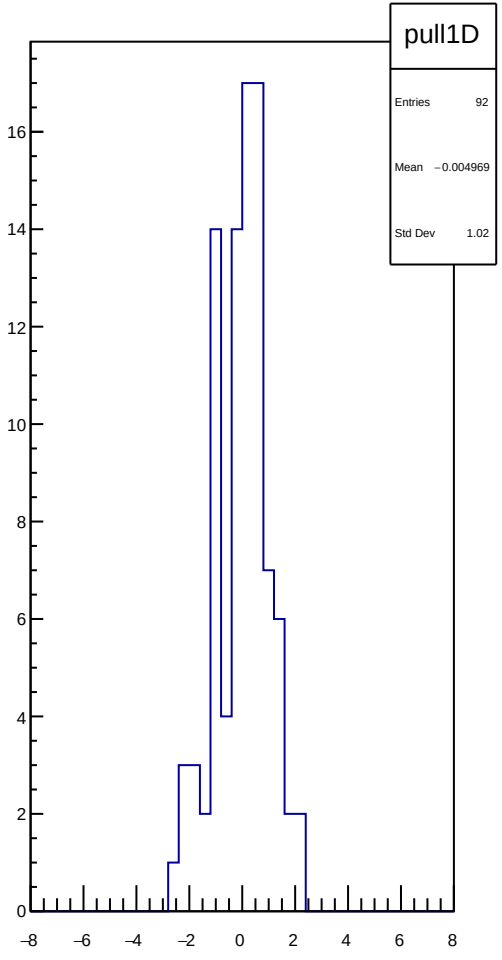

asym_atr2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
10
8
6
4
2
χ² / ndf 8.178e+05 / 91
p0 9.261e−10 ± 9.427e−13

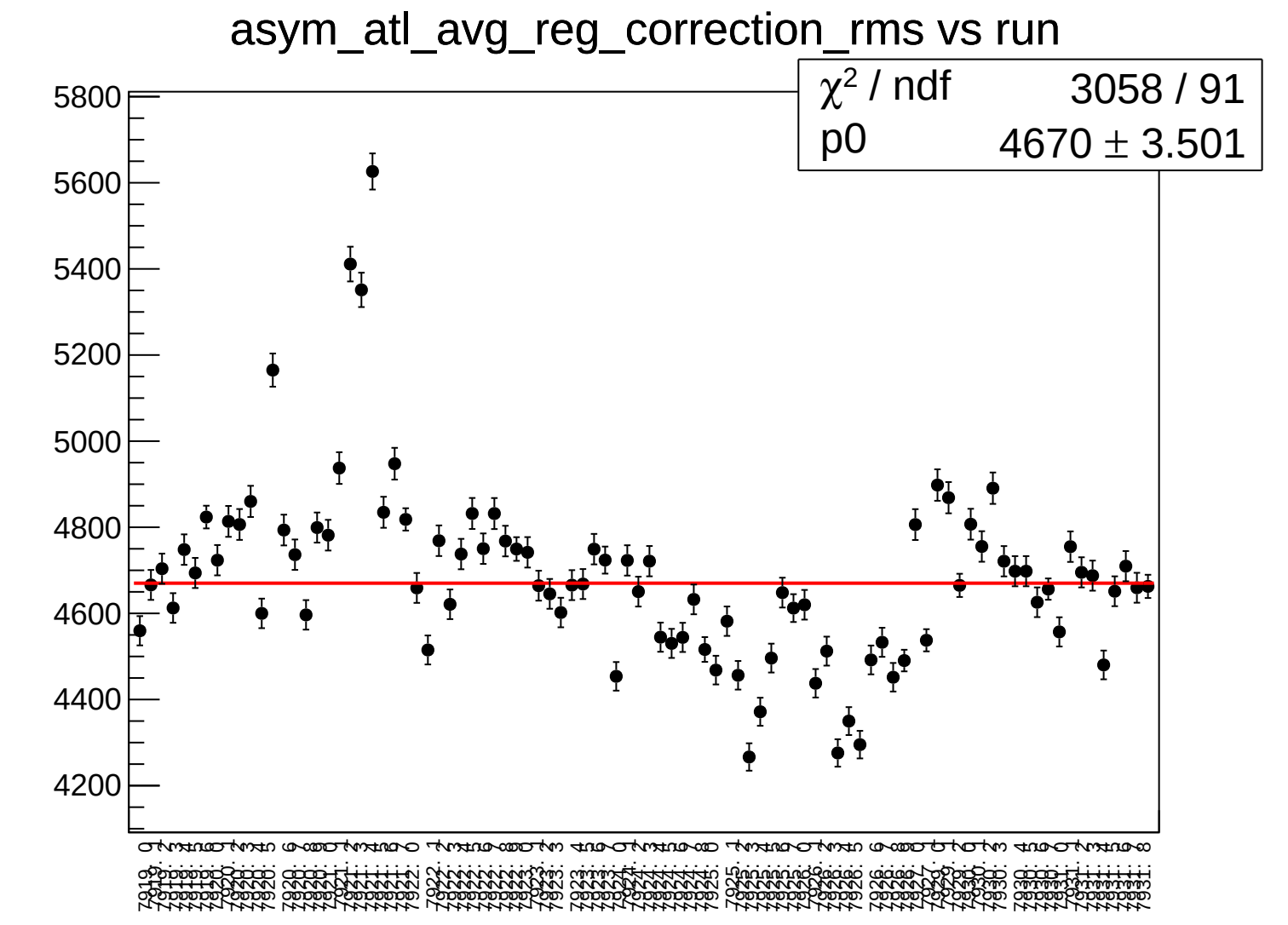

reg_asym_atl_avg_mean vs run
χ² / ndf 88.75 / 91
p0 2011 ± 1726
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −2033
Std Dev 0
2
1
0
−1
−2

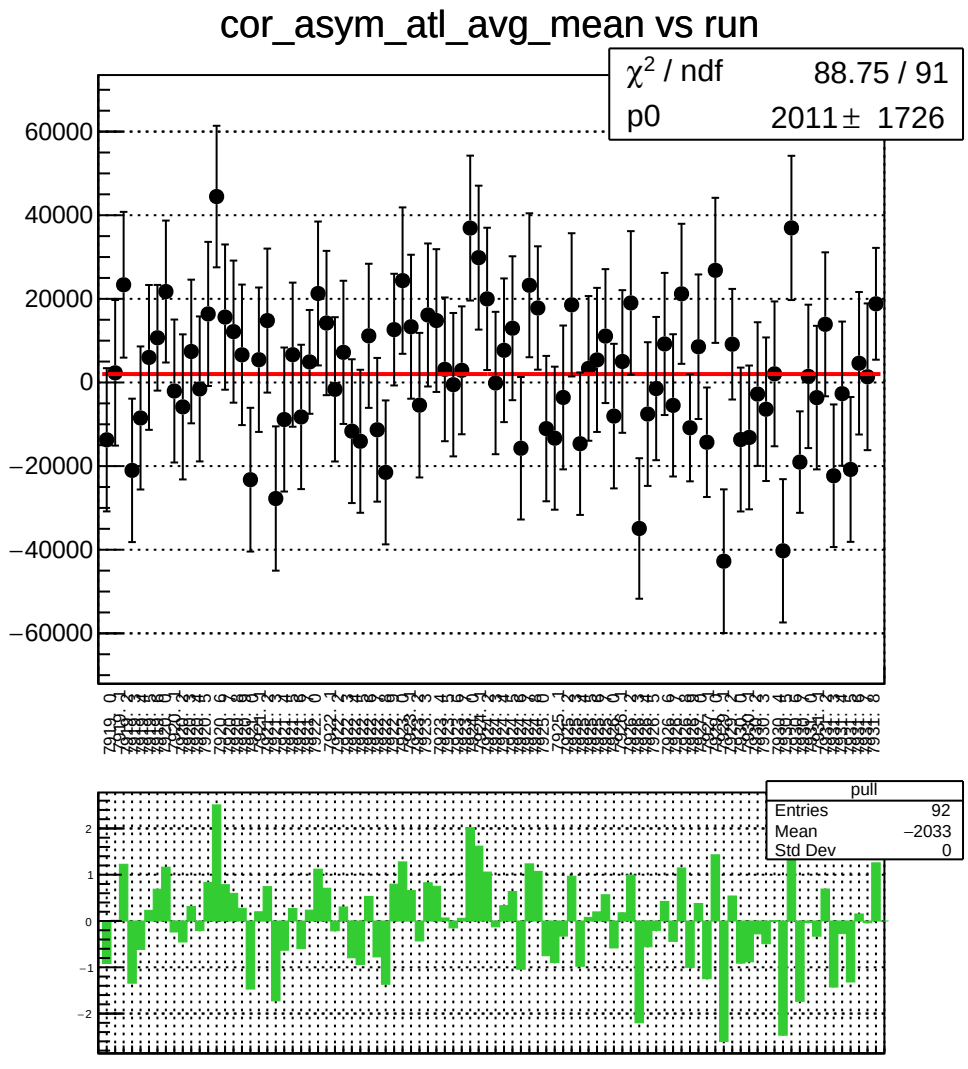

pull1D
Entries 92
Mean 0.002023
Std Dev 0.9822
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

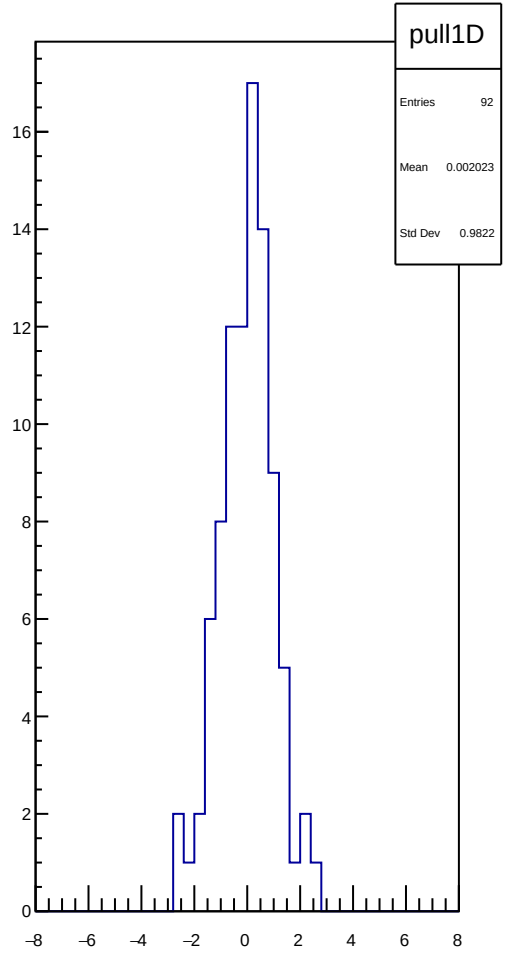

reg_asym_atl_avg_rms vs run
χ^2 / ndf 96.99 / 91
p0 1630 ± 1.221
1680
1660
1640
1620
1600
1580

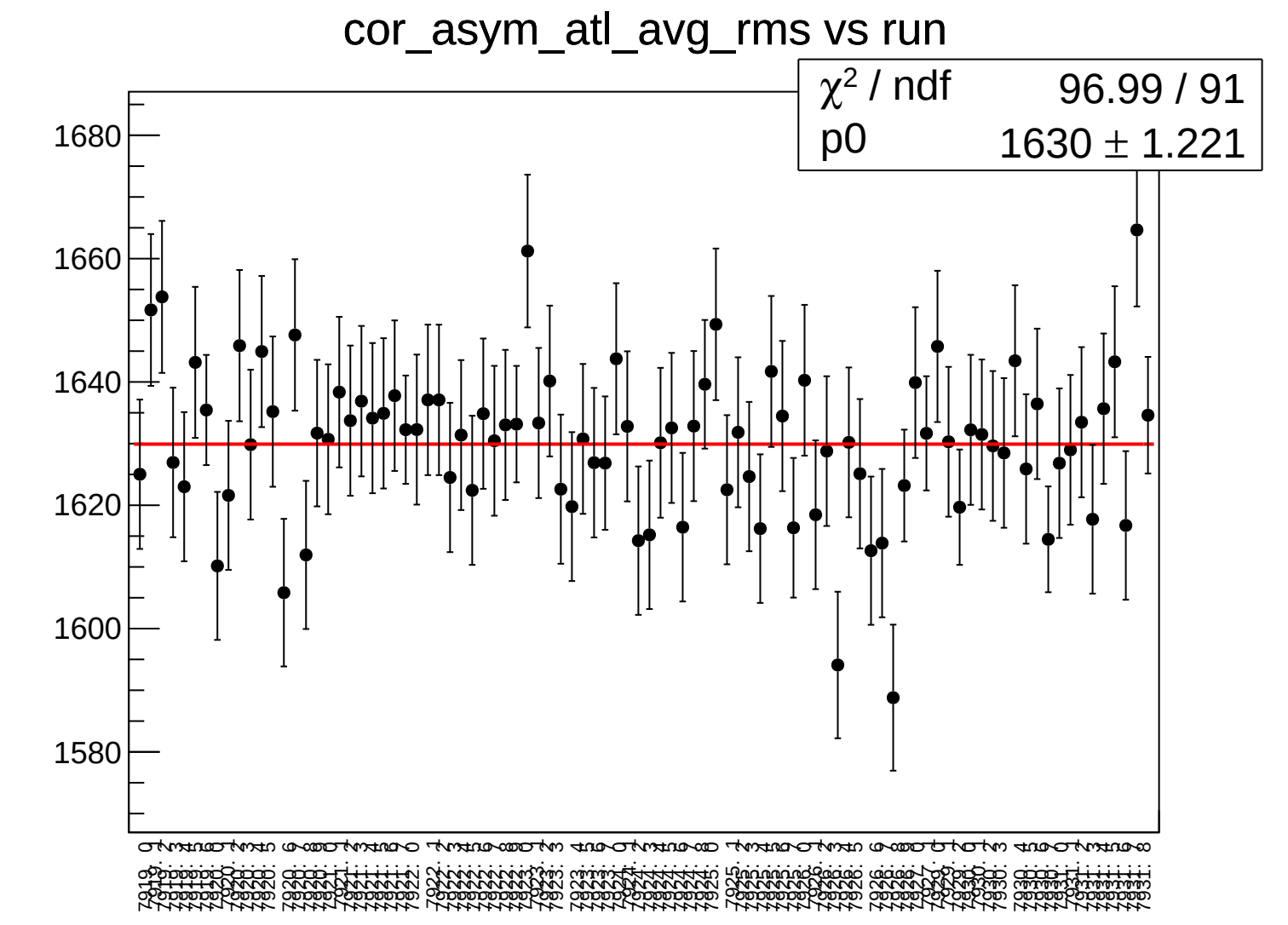

asym_atl_avg_reg_correction_mean vs run
χ² / ndf 95.71 / 91
p0 5804 ± 4951
pull
Entries 92
Mean −425.7
Std Dev 0

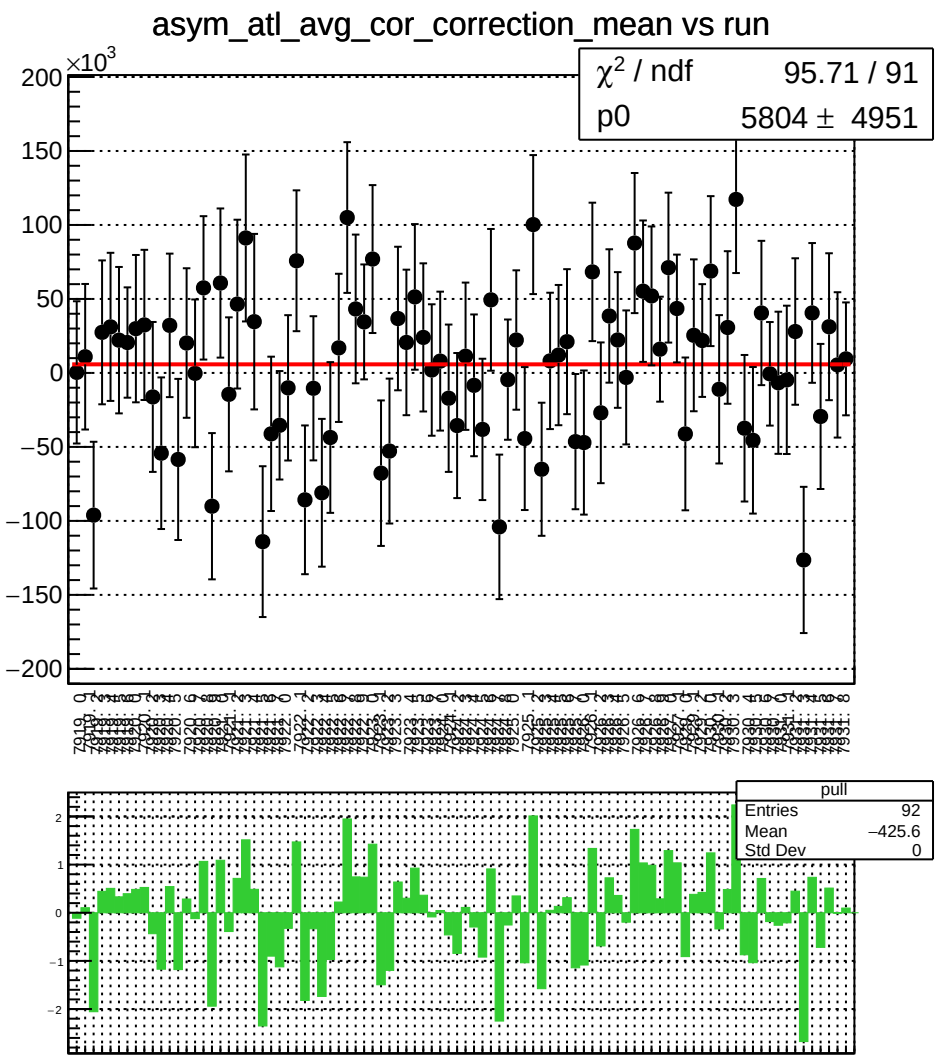

pull1D
Entries 92
Mean −0.004969
Std Dev 1.02

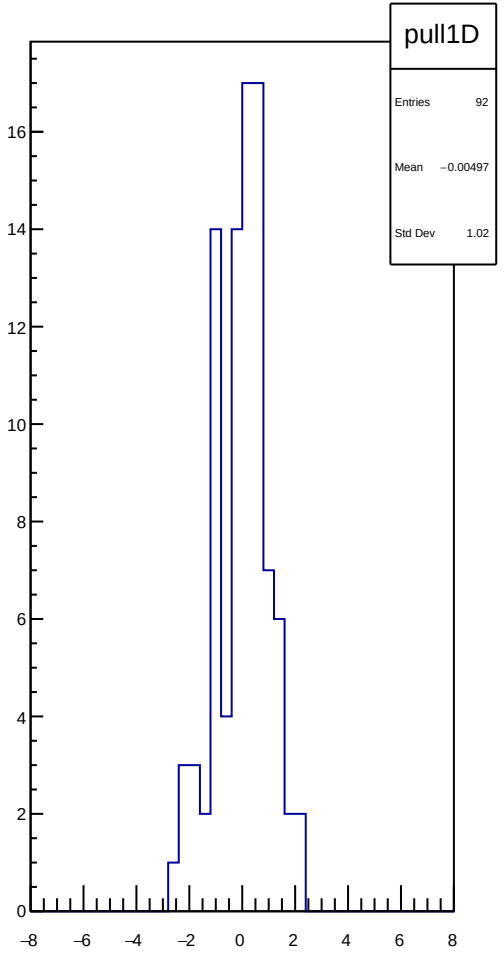

asym_atl_avg_reg_correction_rms vs run
χ^2 / ndf 3058 / 91
p0 4670 ± 3.501
5800
5600
5400
5200
5000
4800
4600
4400
4200

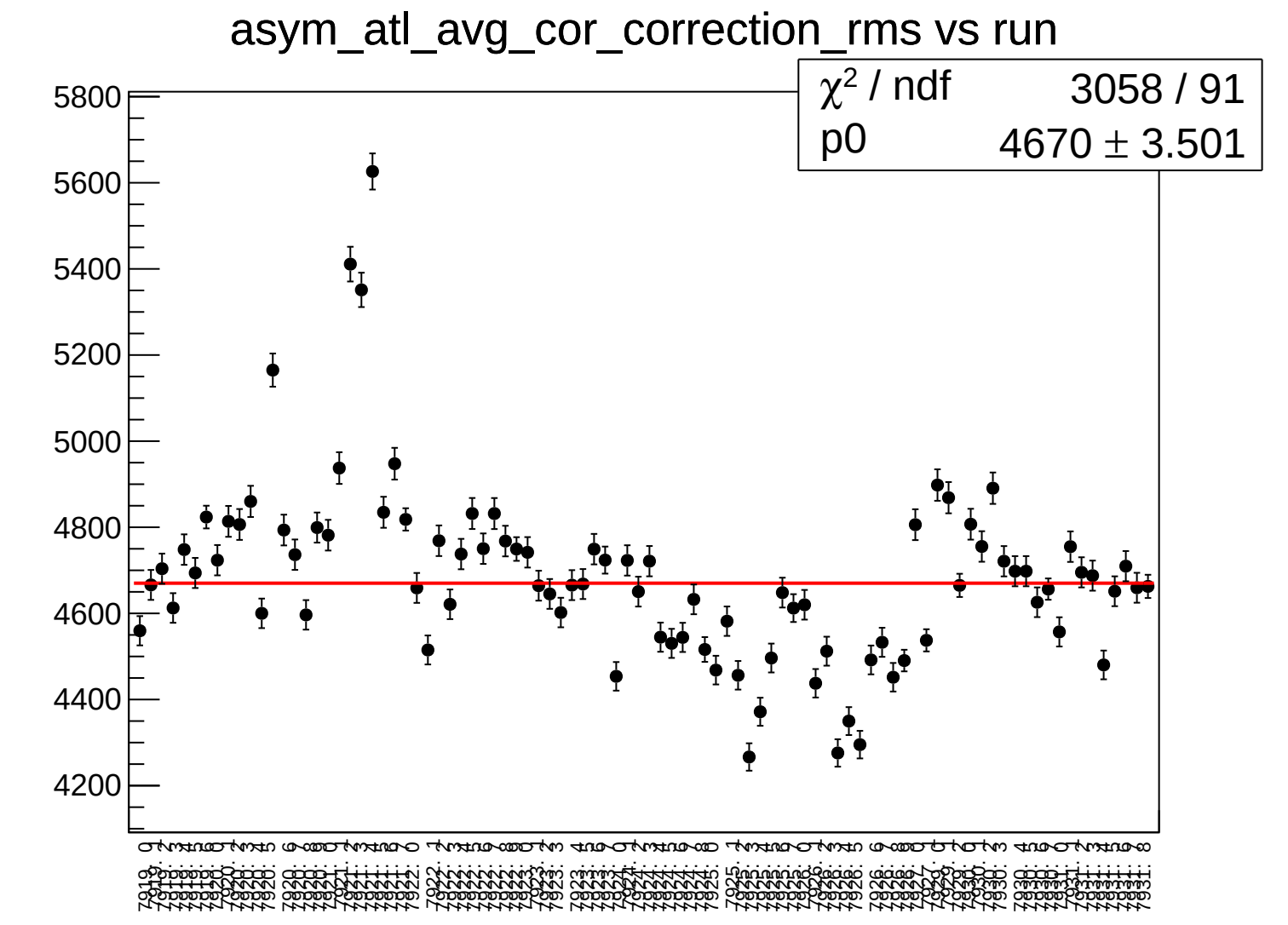

cor_asym_atl_avg_mean vs run
χ² / ndf 88.75 / 91
p0 2011 ± 1726
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −2033
Std Dev 0
2
1
0
−1
−2

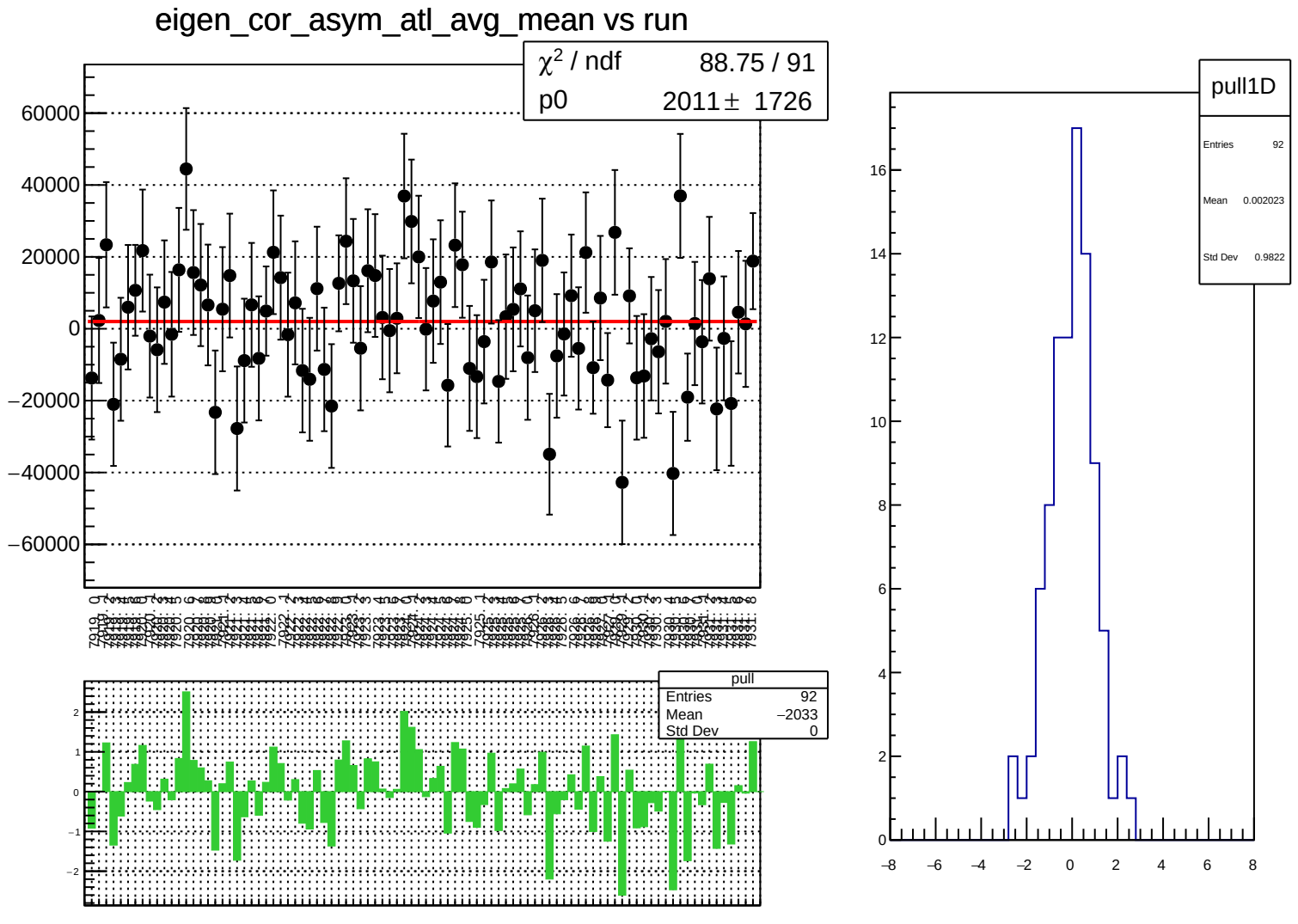

pull1D
Entries 92
Mean 0.002023
Std Dev 0.9822
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

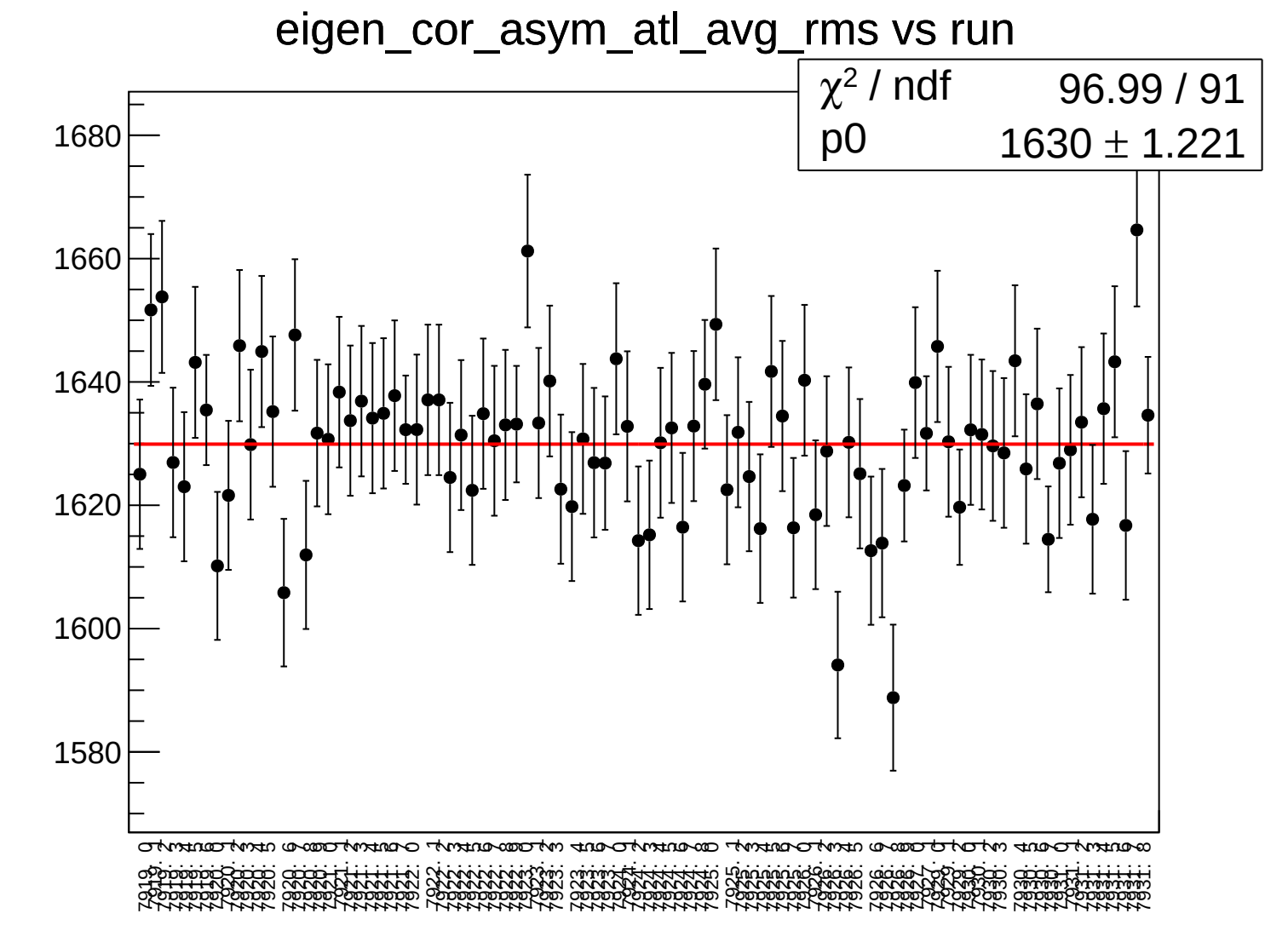

cor_asym_atl_avg_rms vs run
χ^2 / ndf 96.99 / 91
p0 1630 ± 1.221
1680
1660
1640
1620
1600
1580

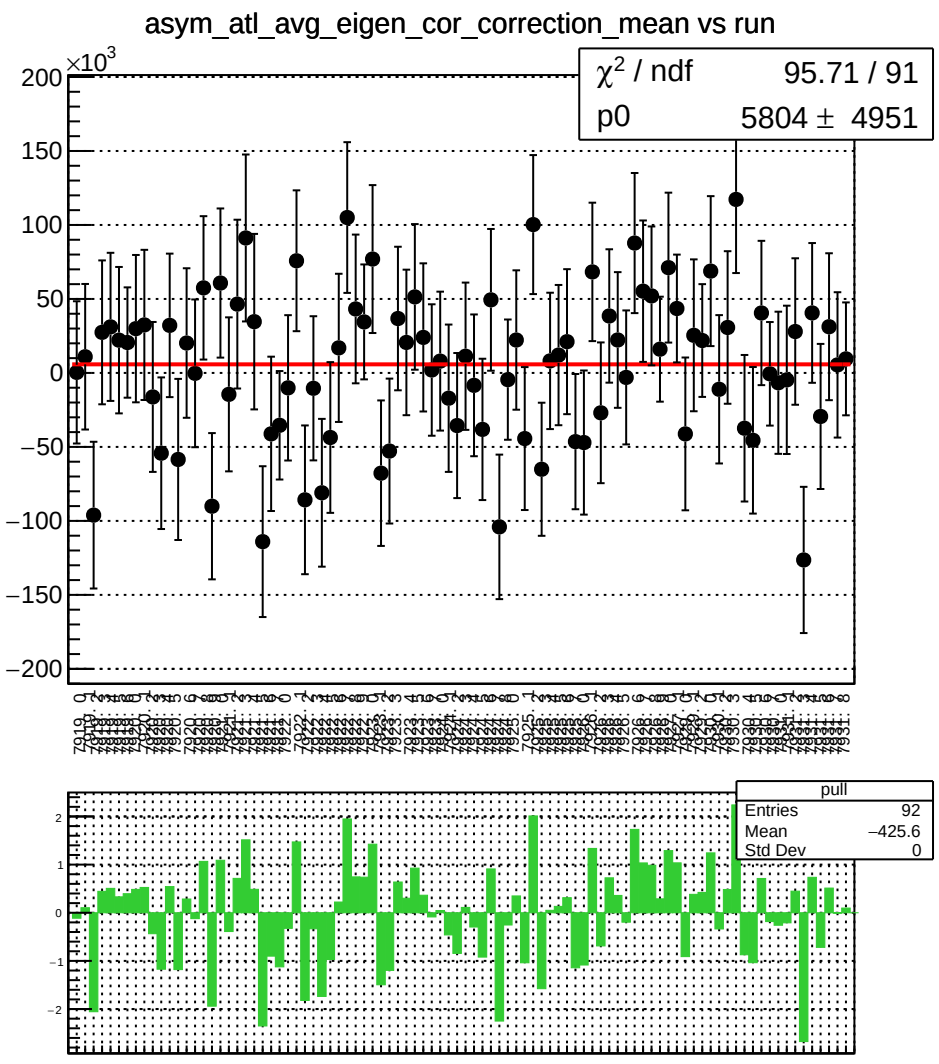

asym_atl_avg_cor_correction_mean vs run
χ² / ndf 95.71 / 91
p0 5804 ± 4951
×10³
pull
Entries 92
Mean −425.6
Std Dev 0

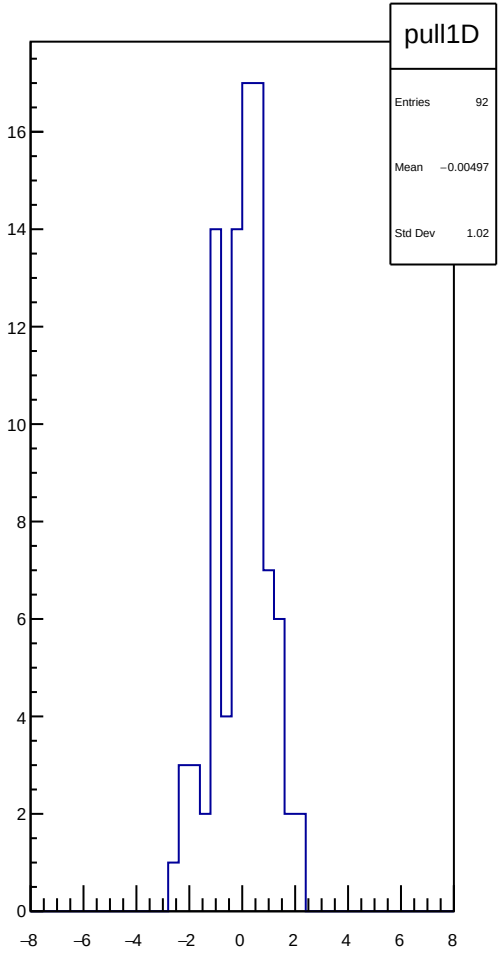

pull1D
Entries 92
Mean −0.00497
Std Dev 1.02

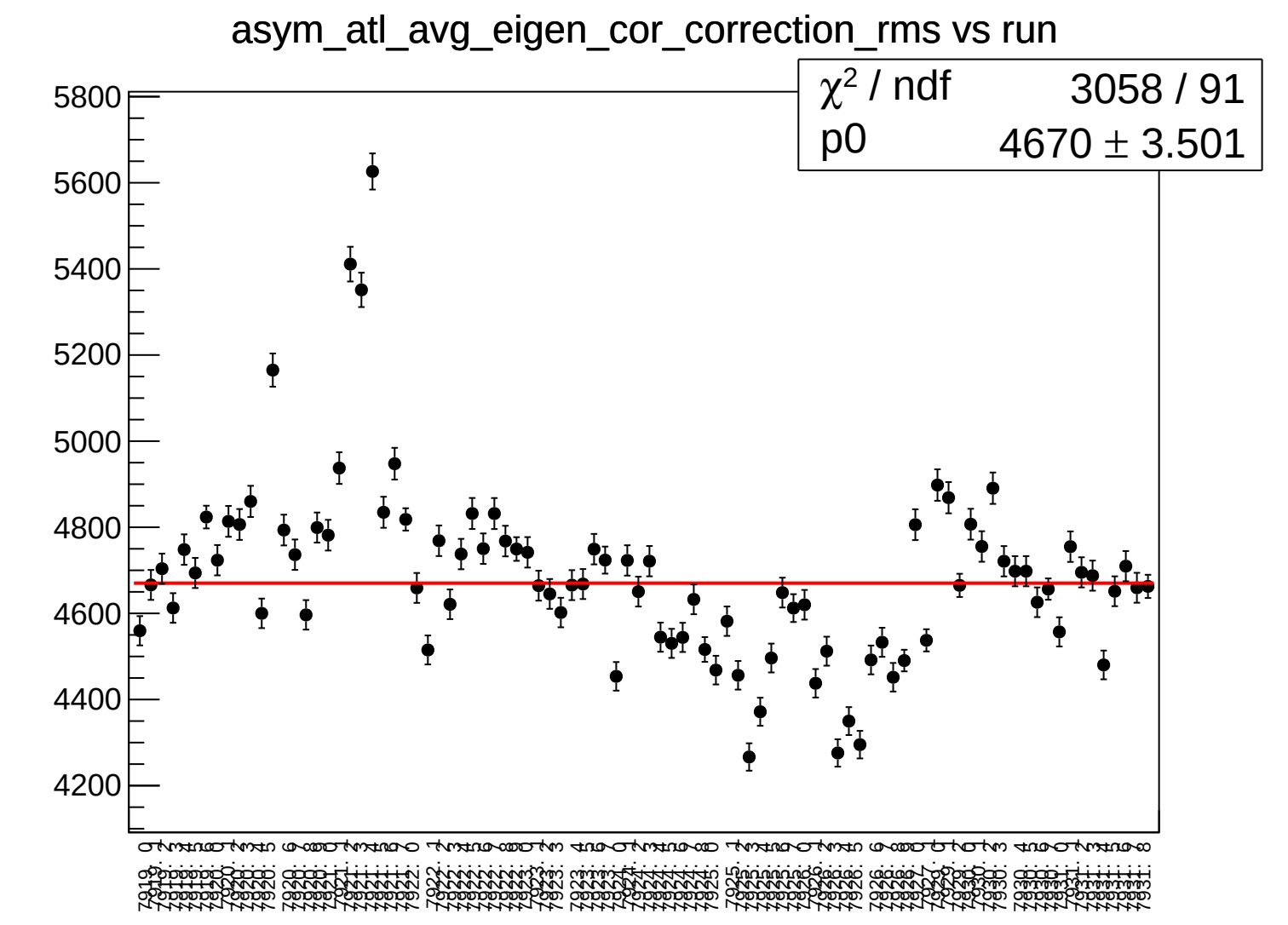

asym_atl_avg_cor_correction_rms vs run
χ^2 / ndf 3058 / 91
p0 4670 ± 3.501
5800
5600
5400
5200
5000
4800
4600
4400
4200

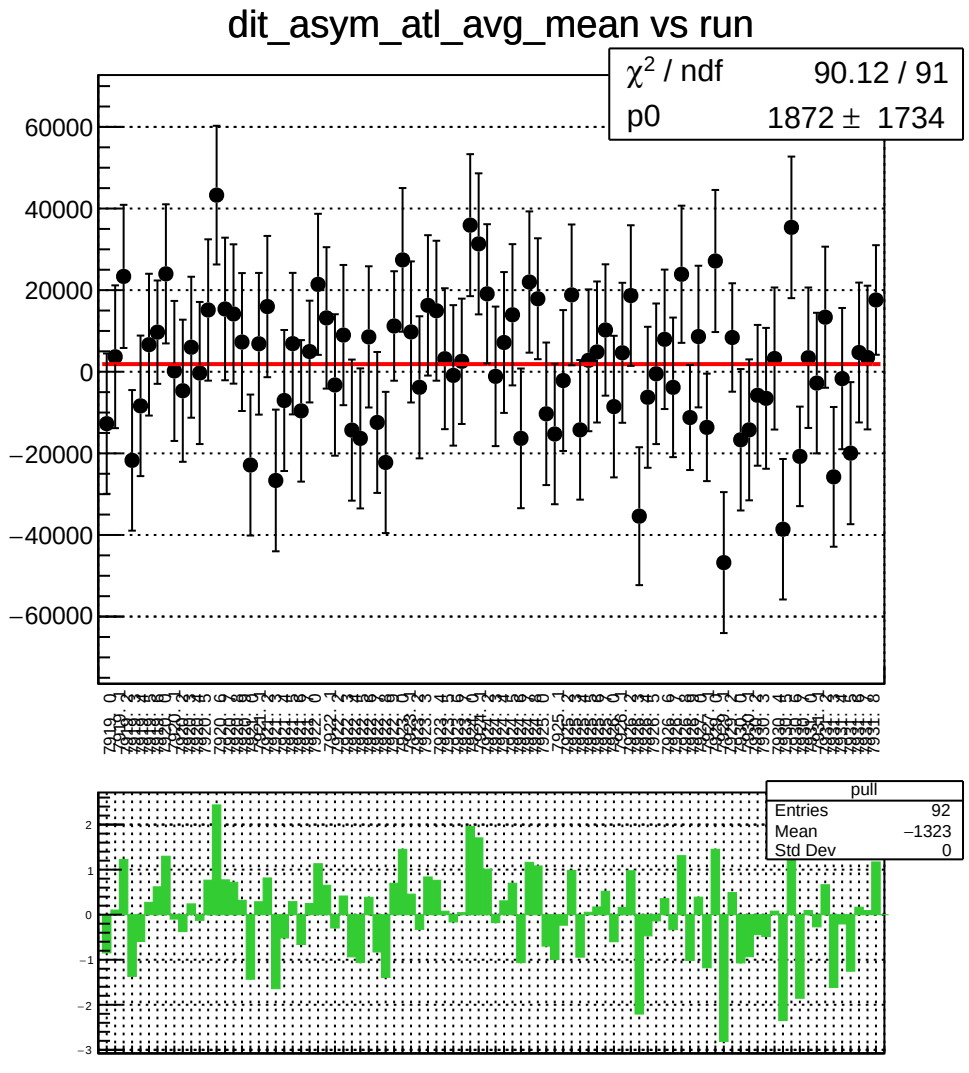

eigen_cor_asym_atl_avg_mean vs run
χ² / ndf 88.75 / 91
p0 2011 ± 1726
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −2033
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.002023
Std Dev 0.9822
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

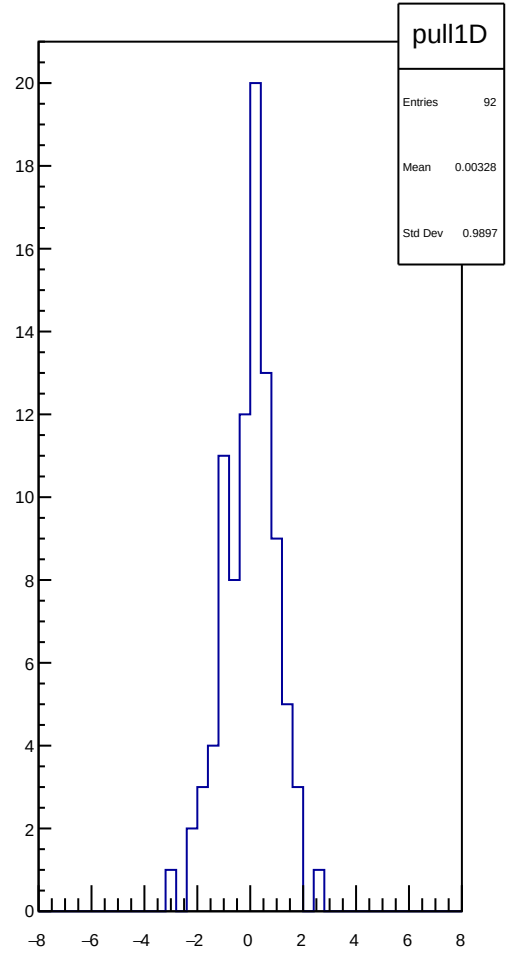

eigen_cor_asym_atl_avg_rms vs run
χ² / ndf 96.99 / 91
p0 1630 ± 1.221
1680
1660
1640
1620
1600
1580

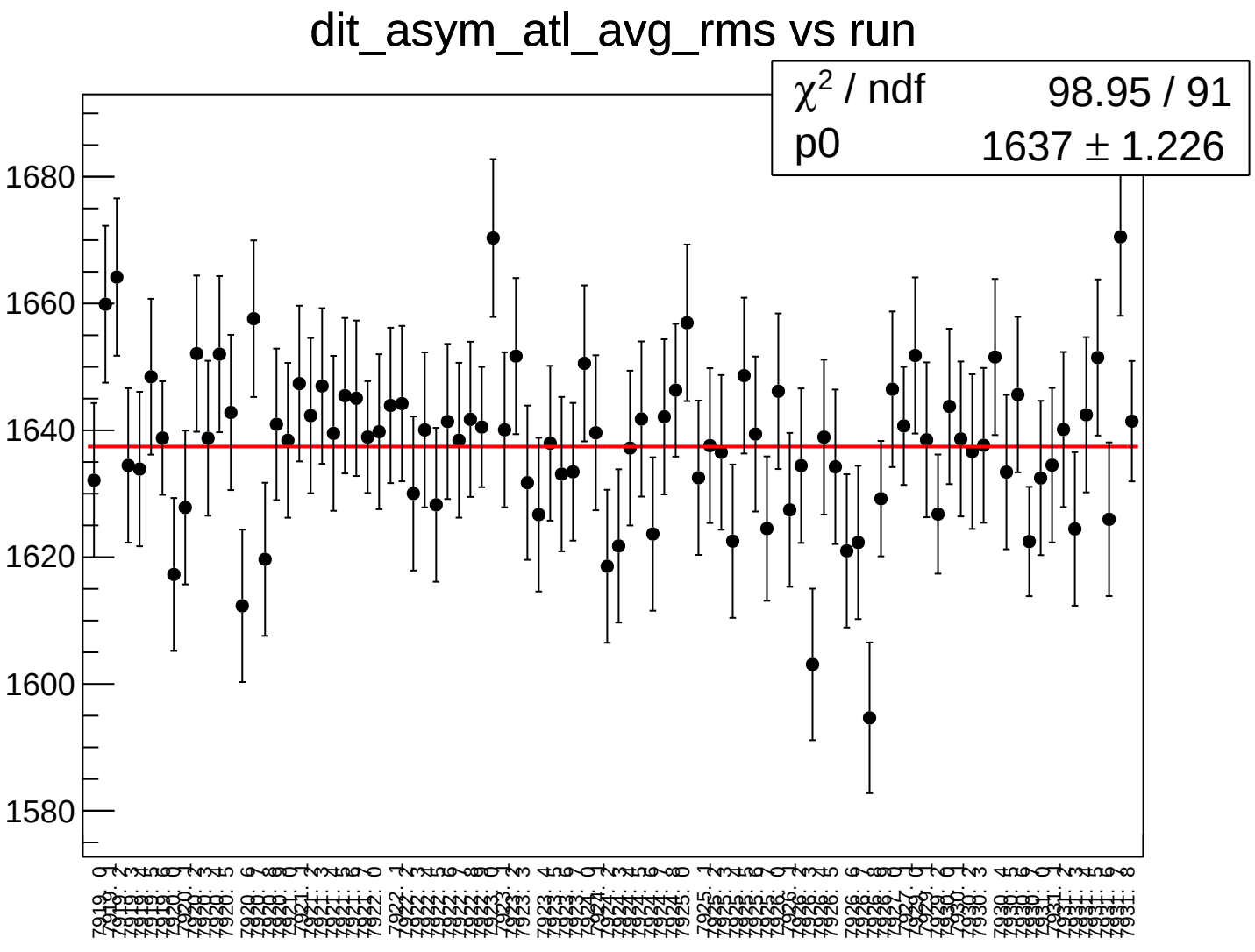

asym_atl_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 95.71 / 91
p0 5804 ± 4951
pull
Entries 92
Mean −425.6
Std Dev 0

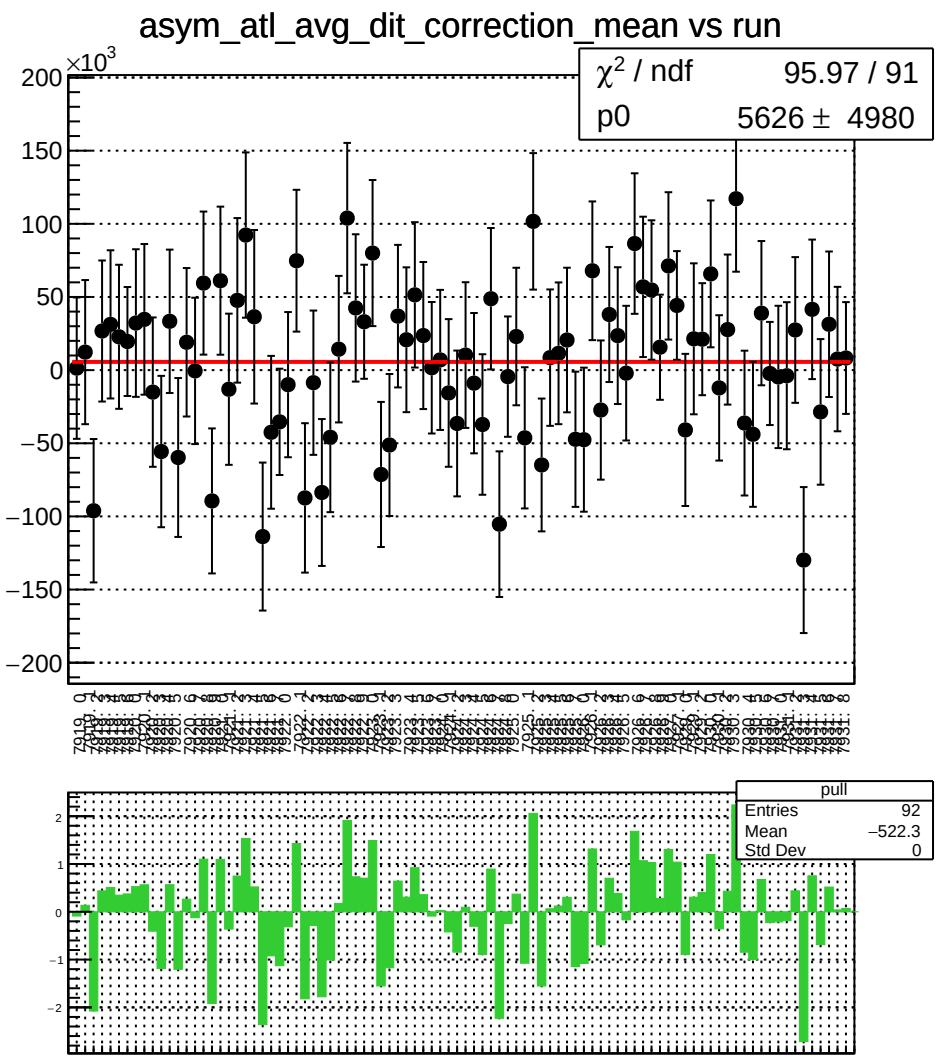

pull1D
Entries 92
Mean −0.00497
Std Dev 1.02

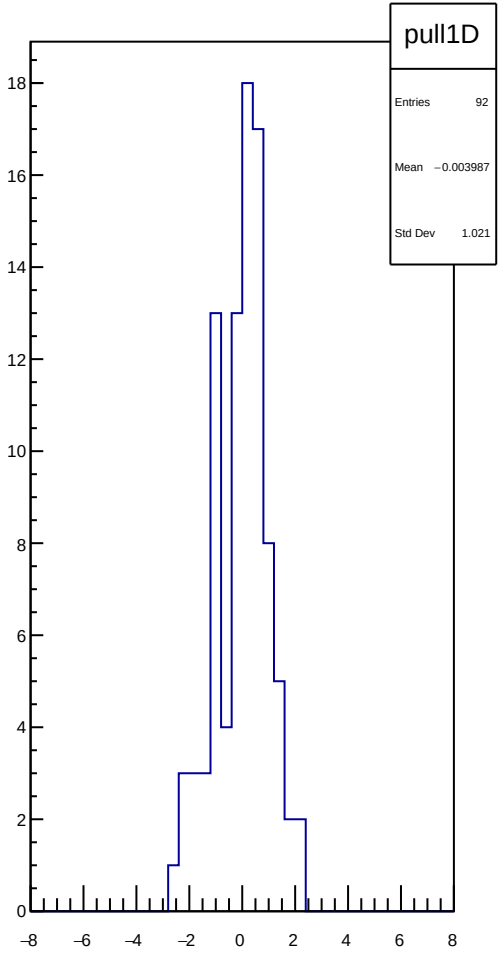

asym_atl_avg_eigen_cor_correction_rms vs run
χ² / ndf 3058 / 91
p0 4670 ± 3.501
5800
5600
5400
5200
5000
4800
4600
4400
4200

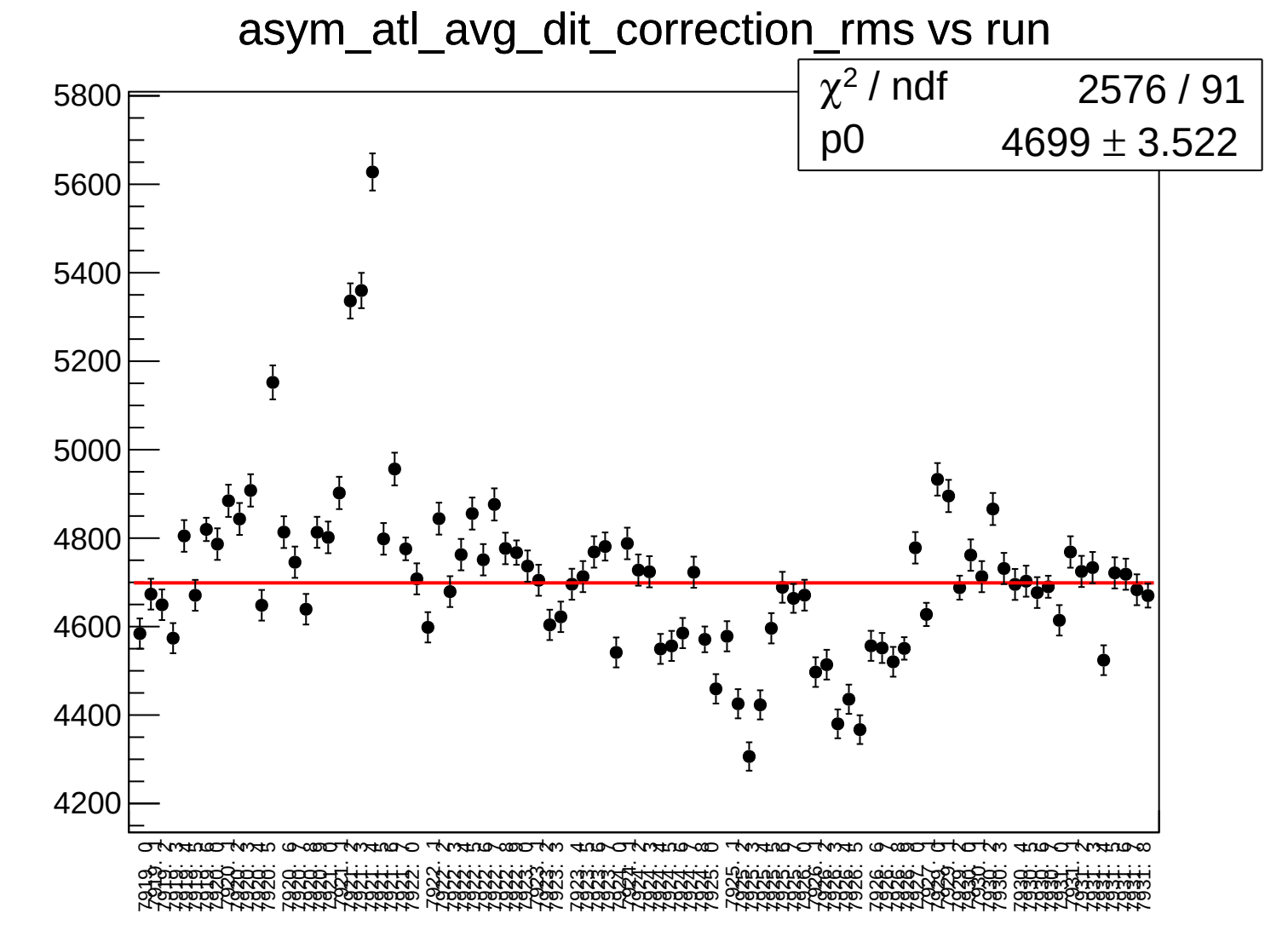

dit_asym_atl_avg_mean vs run
χ² / ndf 90.12 / 91
p0 1872 ± 1734
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −1323
Std Dev 0
2
1
0
−1
−2
−3

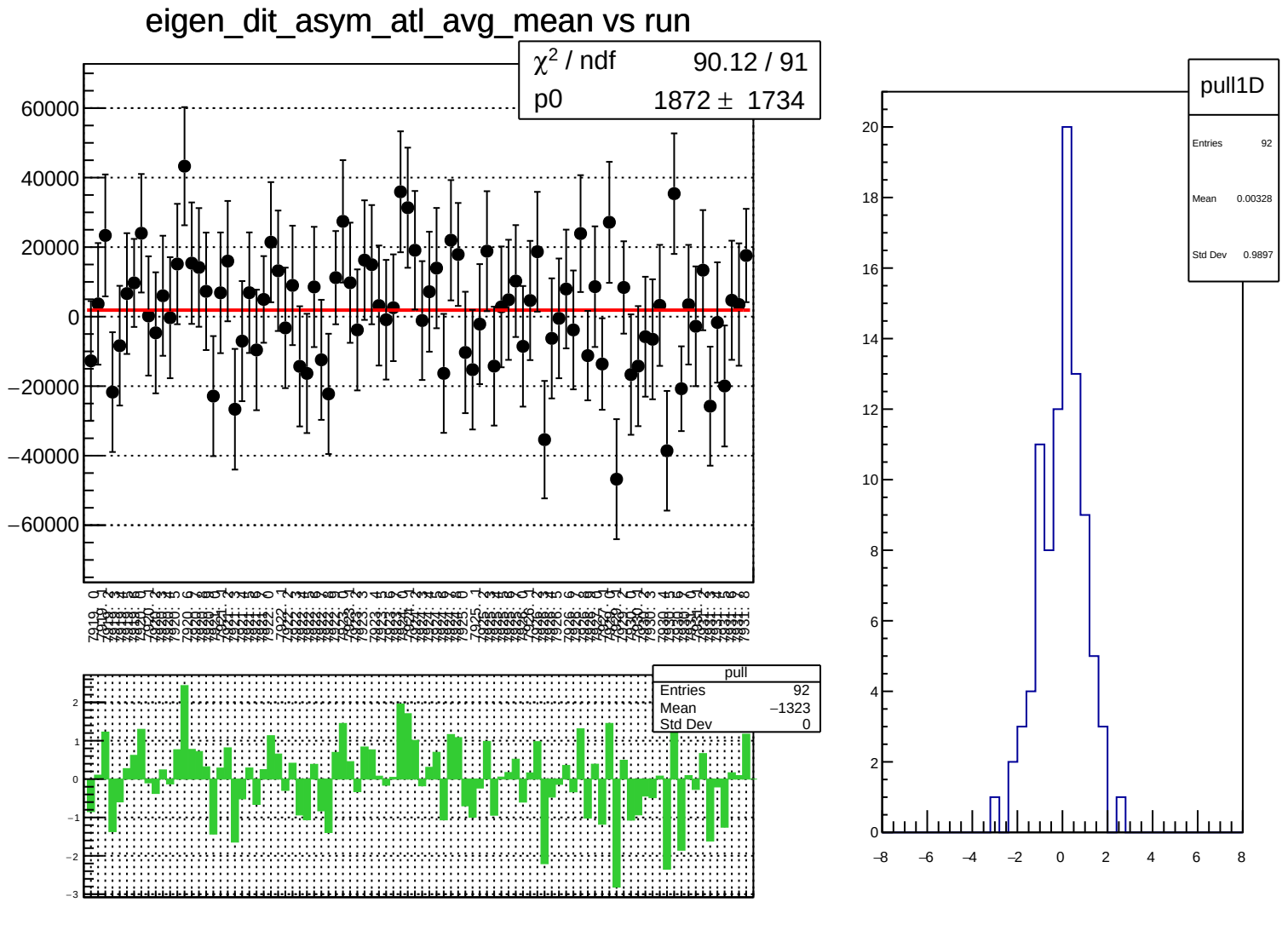

pull1D
Entries 92
Mean 0.00328
Std Dev 0.9897
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

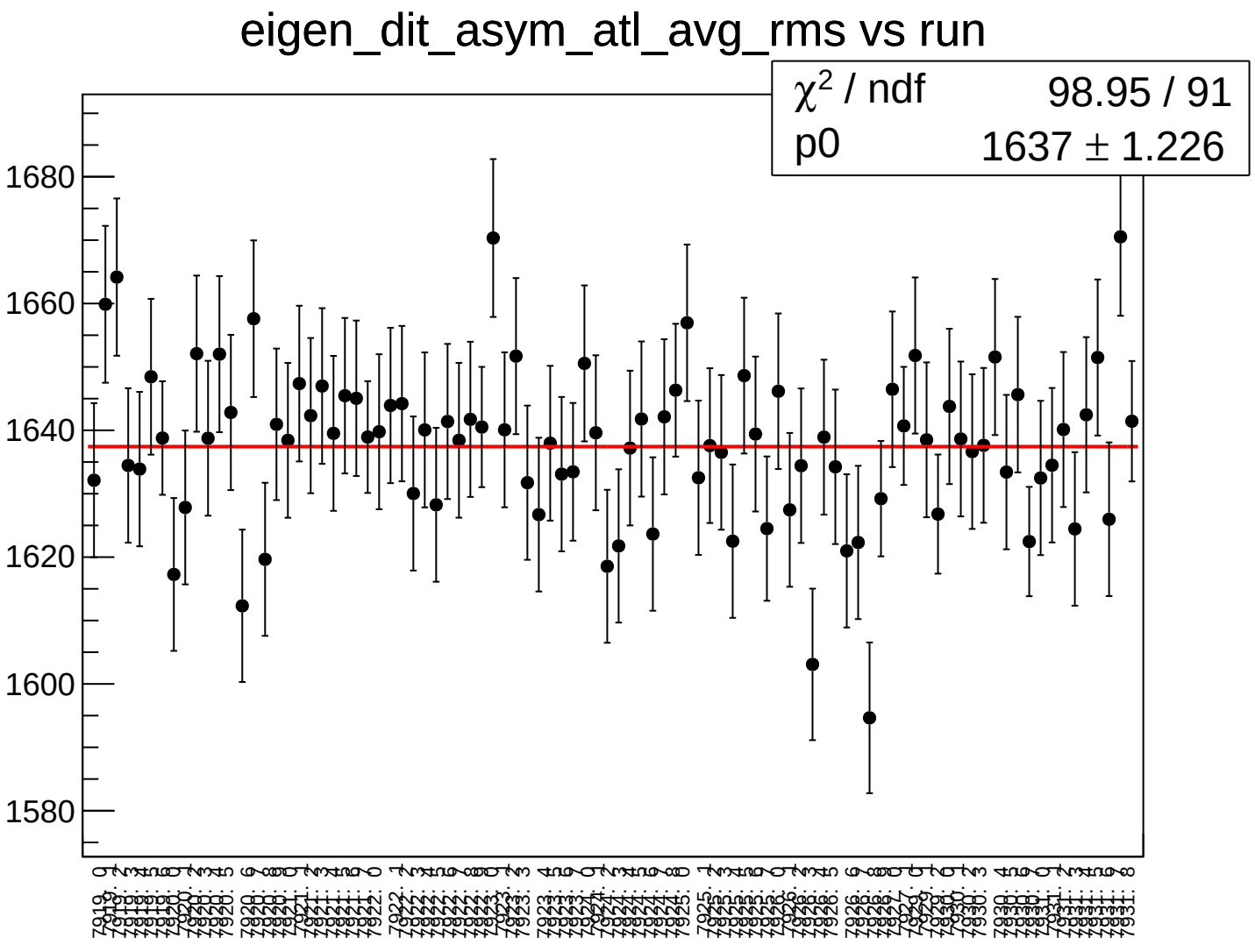

dit_asym_atl_avg_rms vs run
χ² / ndf 98.95 / 91
p0 1637 ± 1.226
1680
1660
1640
1620
1600
1580

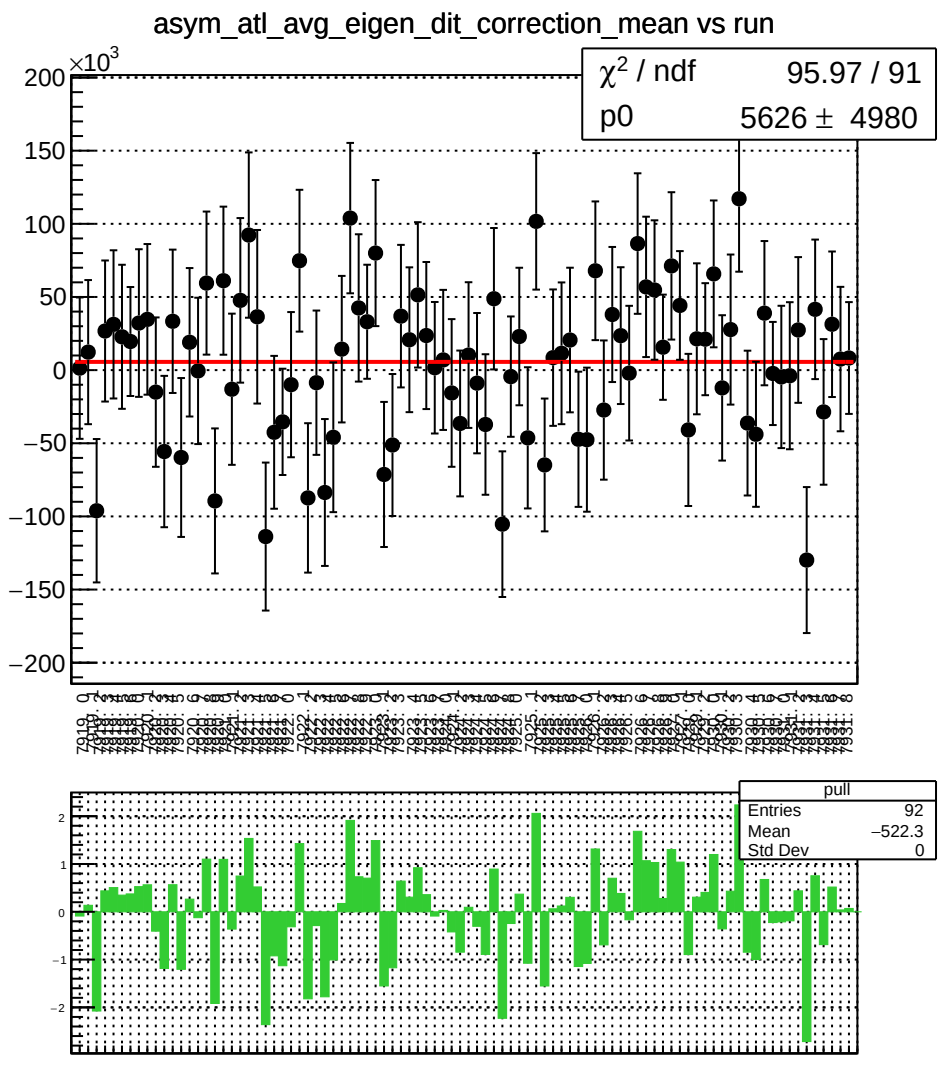

asym_atl_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 95.97 / 91
p0 5626 ± 4980
pull
Entries 92
Mean −522.3
Std Dev 0

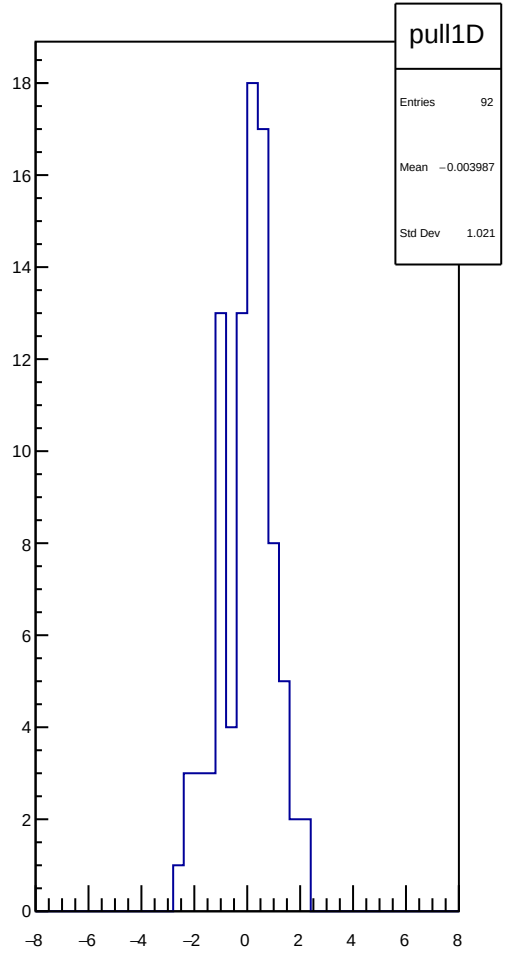

pull1D
Entries 92
Mean −0.003987
Std Dev 1.021

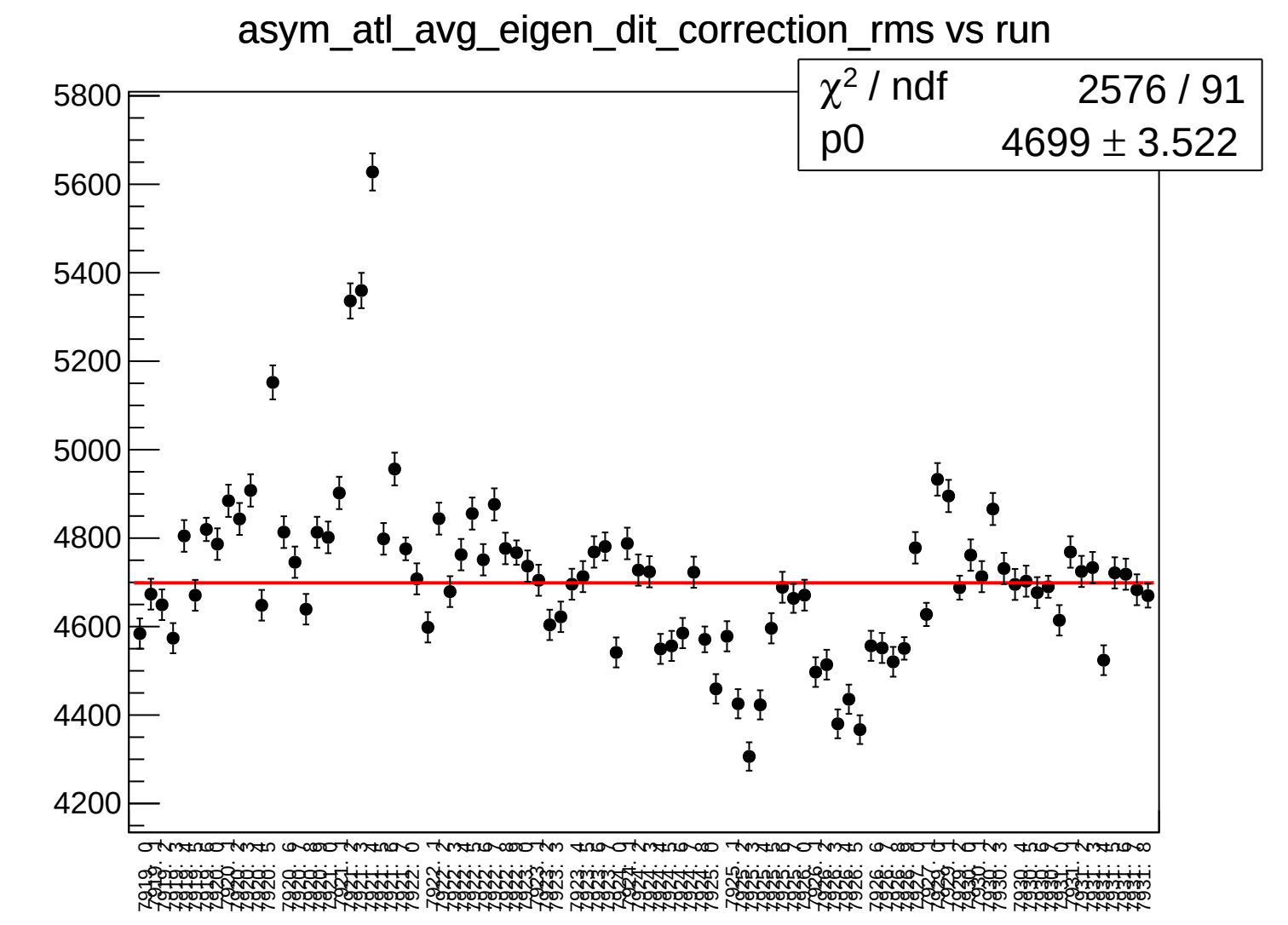

asym_atl_avg_dit_correction_rms vs run
χ² / ndf 2576 / 91
p0 4699 ± 3.522
5800
5600
5400
5200
5000
4800
4600
4400
4200

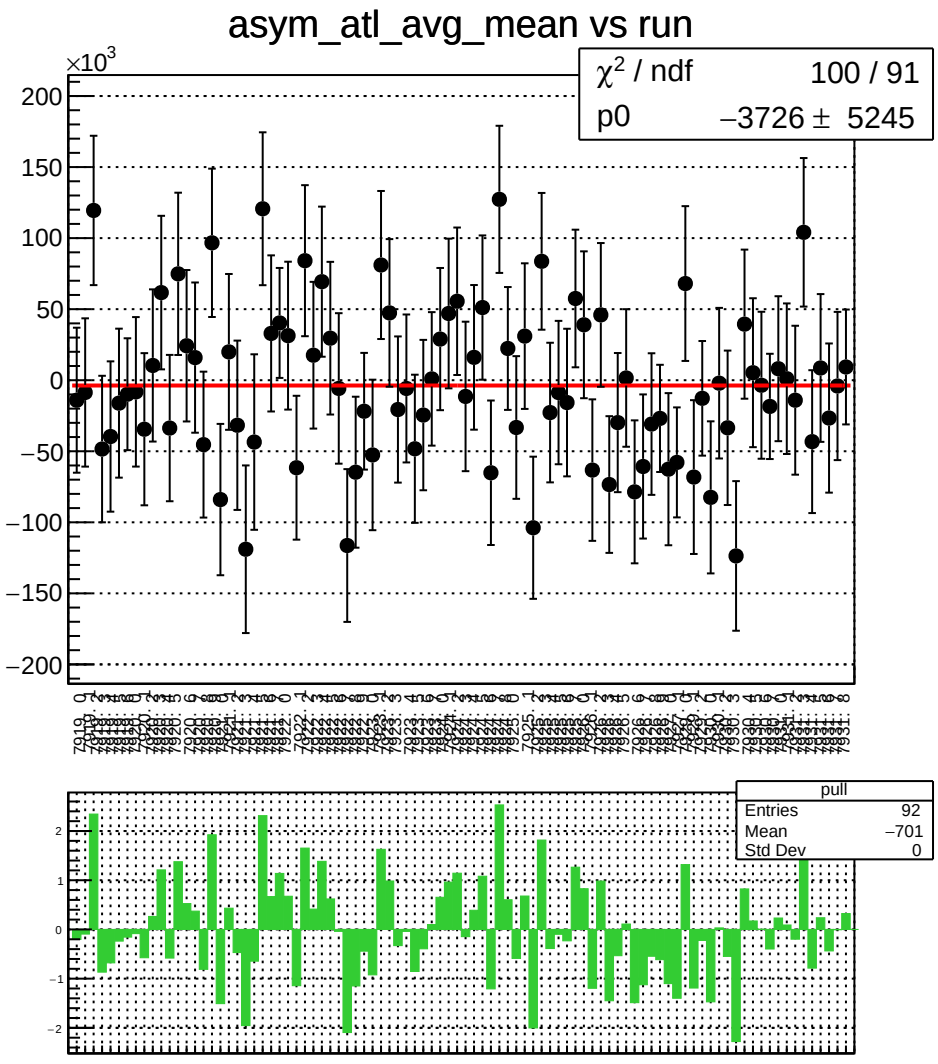

eigen_dit_asym_atl_avg_mean vs run
χ² / ndf 90.12 / 91
p0 1872 ± 1734
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −1323
Std Dev 0
pull1D
Entries 92
Mean 0.00328
Std Dev 0.9897

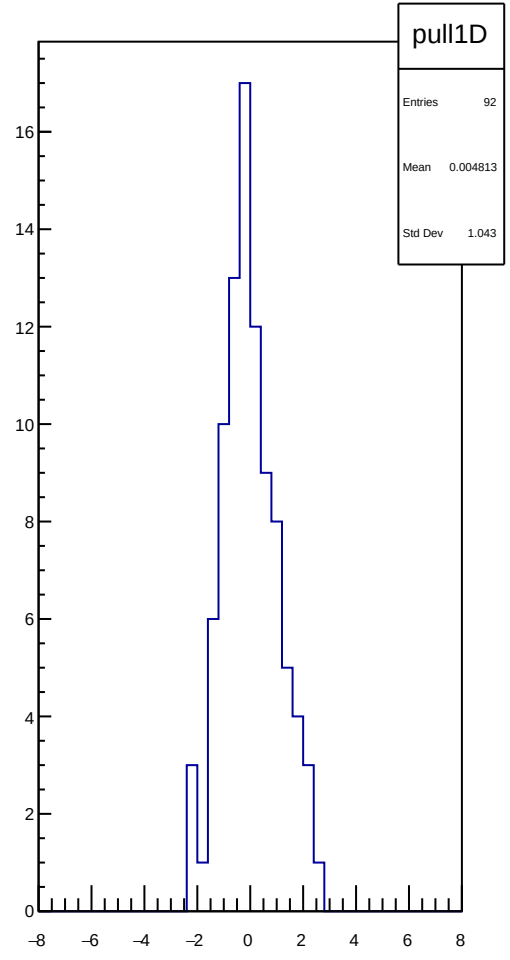

eigen_dit_asym_atl_avg_rms vs run
χ^2 / ndf 98.95 / 91
p0 1637 ± 1.226
1680
1660
1640
1620
1600
1580

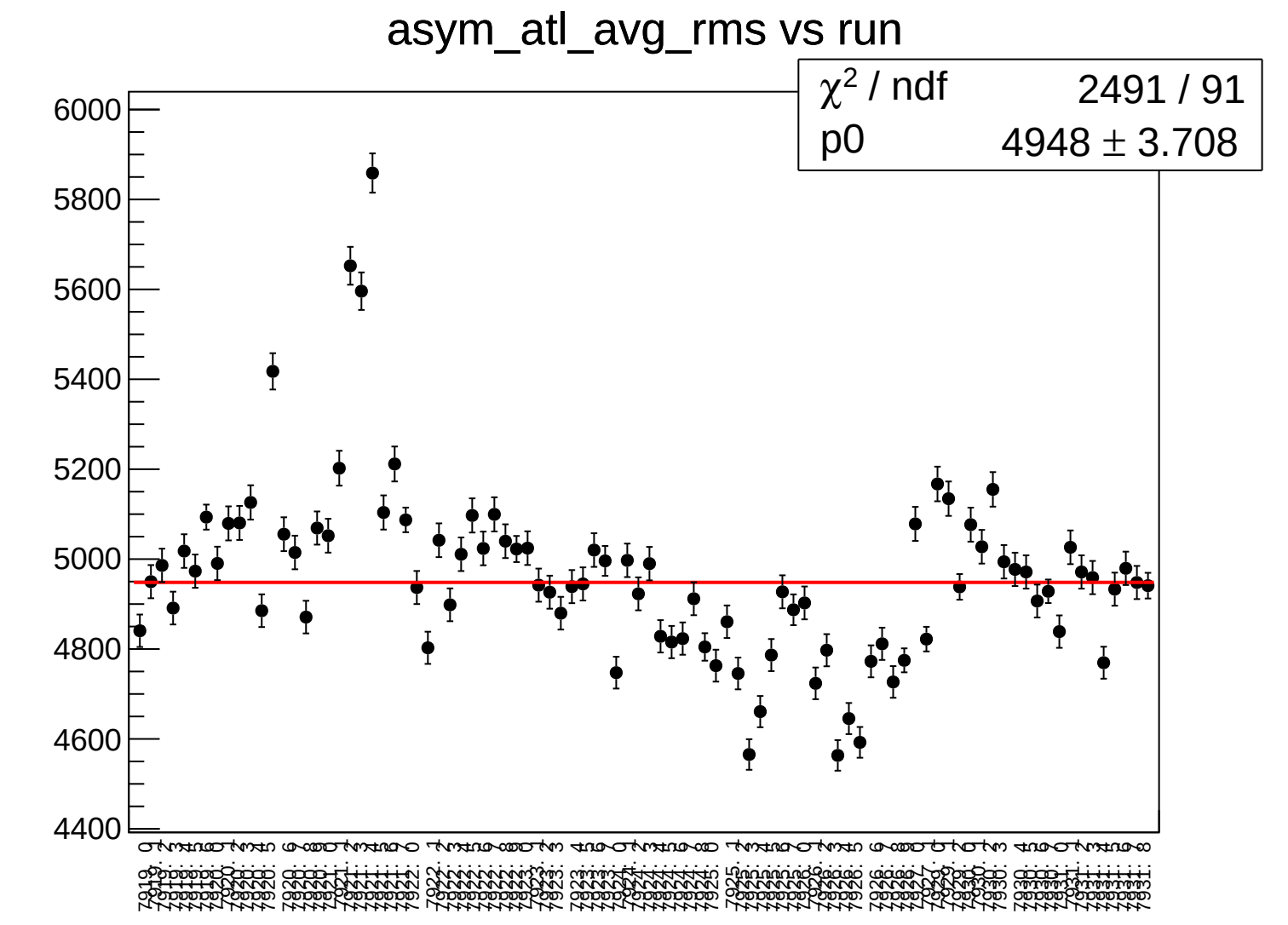

asym_atl_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 95.97 / 91
p0 5626 ± 4980
pull
Entries 92
Mean −522.3
Std Dev 0

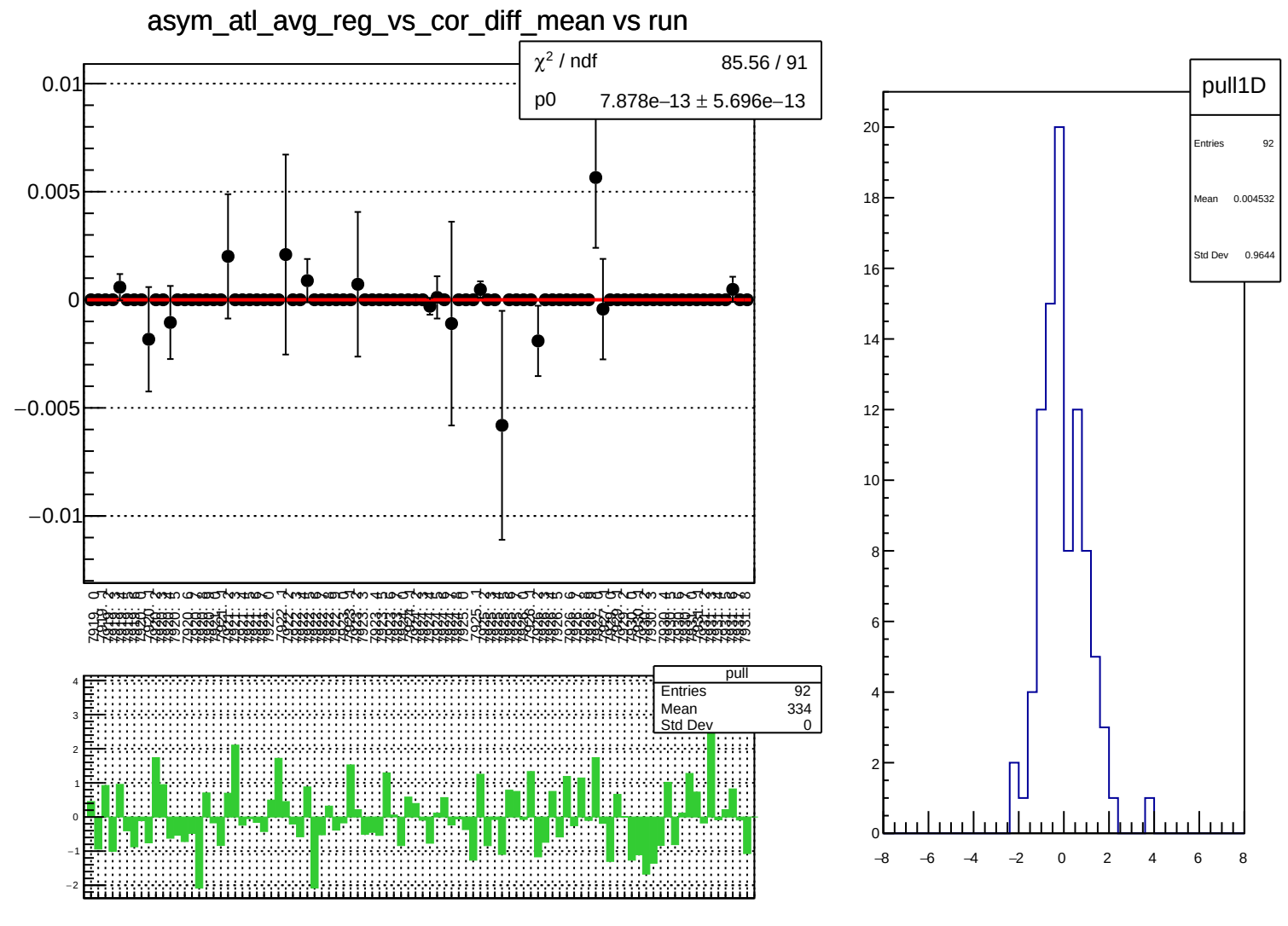

pull1D
Entries 92
Mean −0.003987
Std Dev 1.021

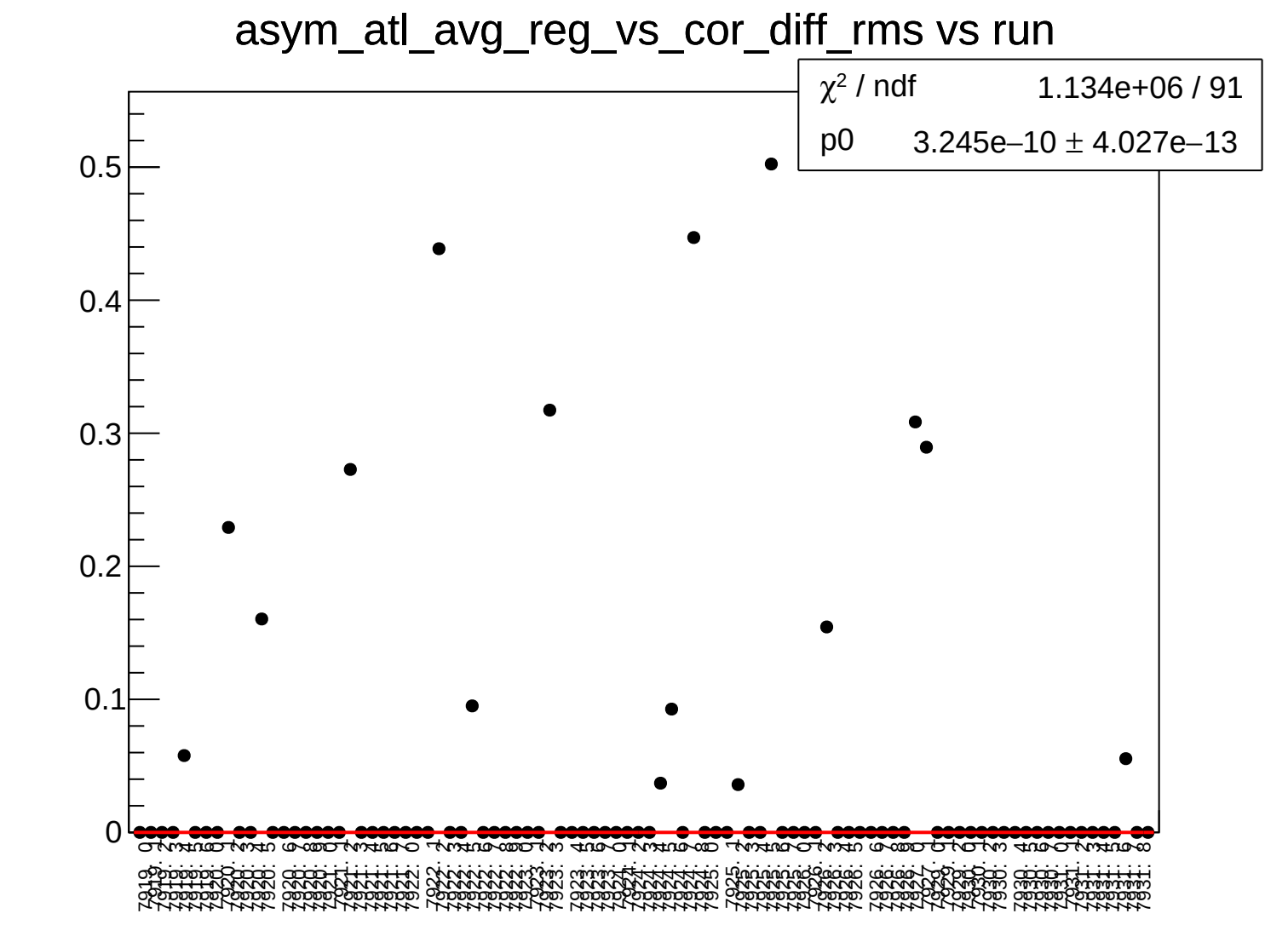

asym_atl_avg_eigen_dit_correction_rms vs run
χ² / ndf 2576 / 91
p0 4699 ± 3.522
5800
5600
5400
5200
5000
4800
4600
4400
4200

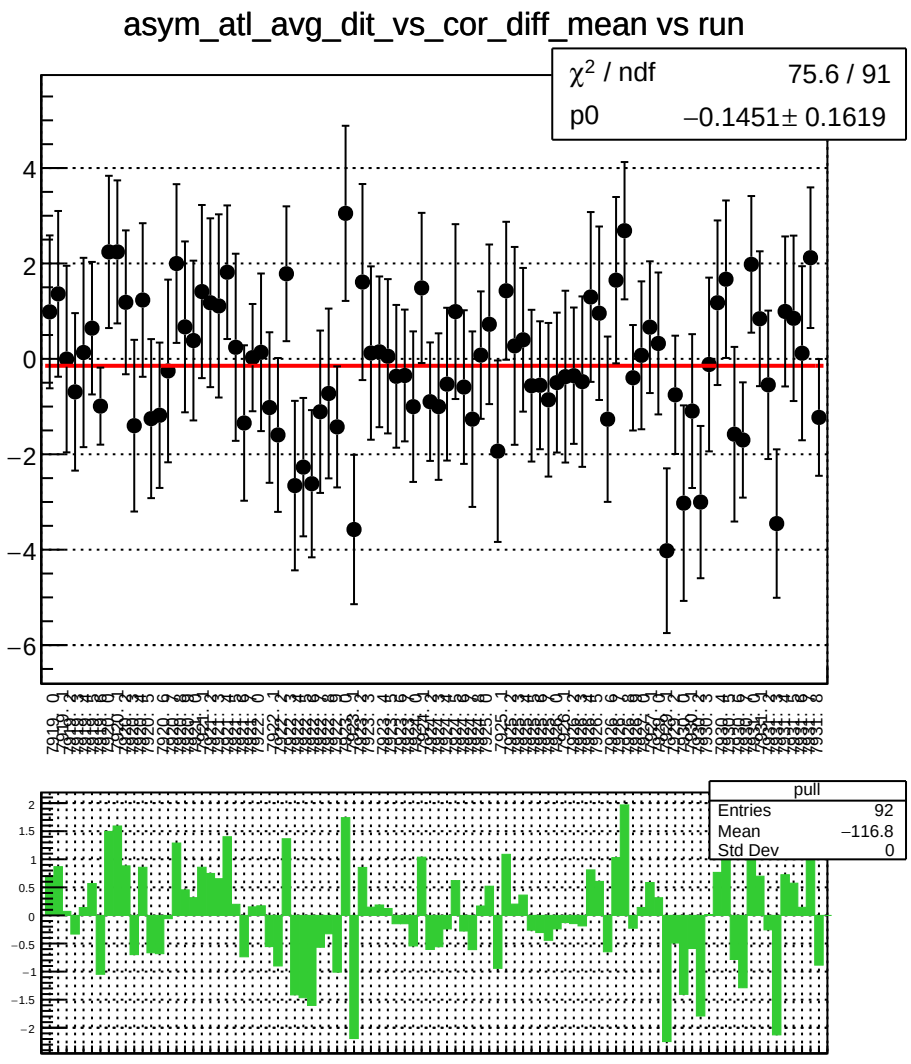

asym_atl_avg_mean vs run
×10^3
χ^2 / ndf 100 / 91
p0 −3726 ± 5245
pull
Entries 92
Mean −701
Std Dev 0

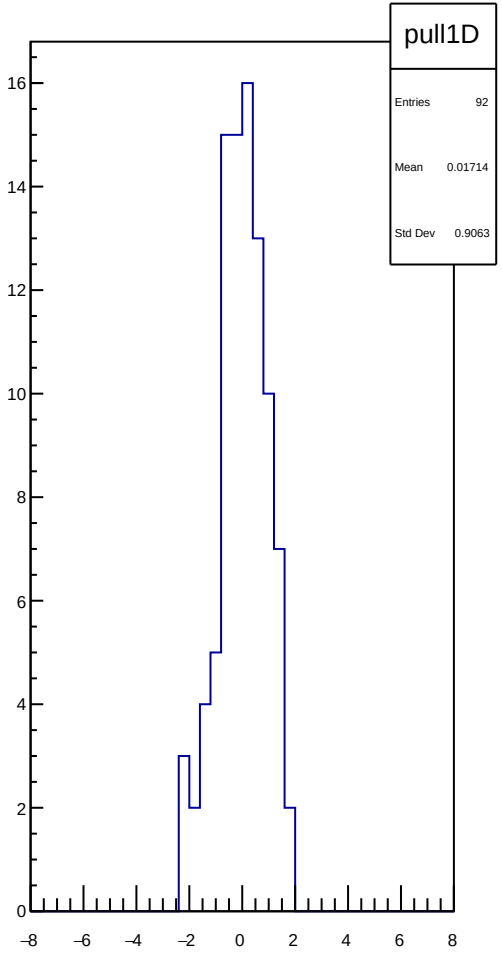

pull1D
Entries 92
Mean 0.004813
Std Dev 1.043

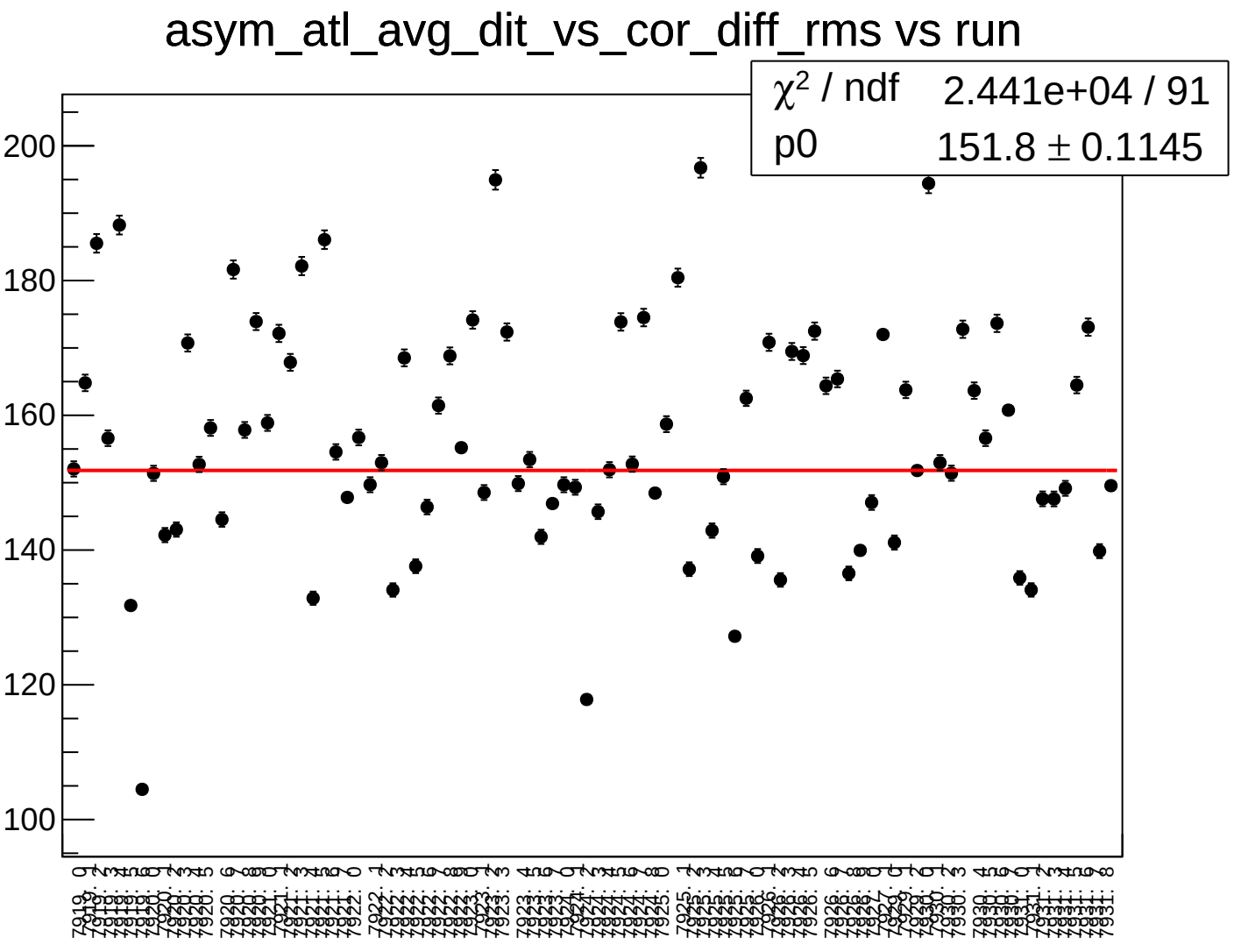

asym_atl_avg_rms vs run
χ^2 / ndf 2491 / 91
p0 4948 ± 3.708
6000
5800
5600
5400
5200
5000
4800
4600
4400

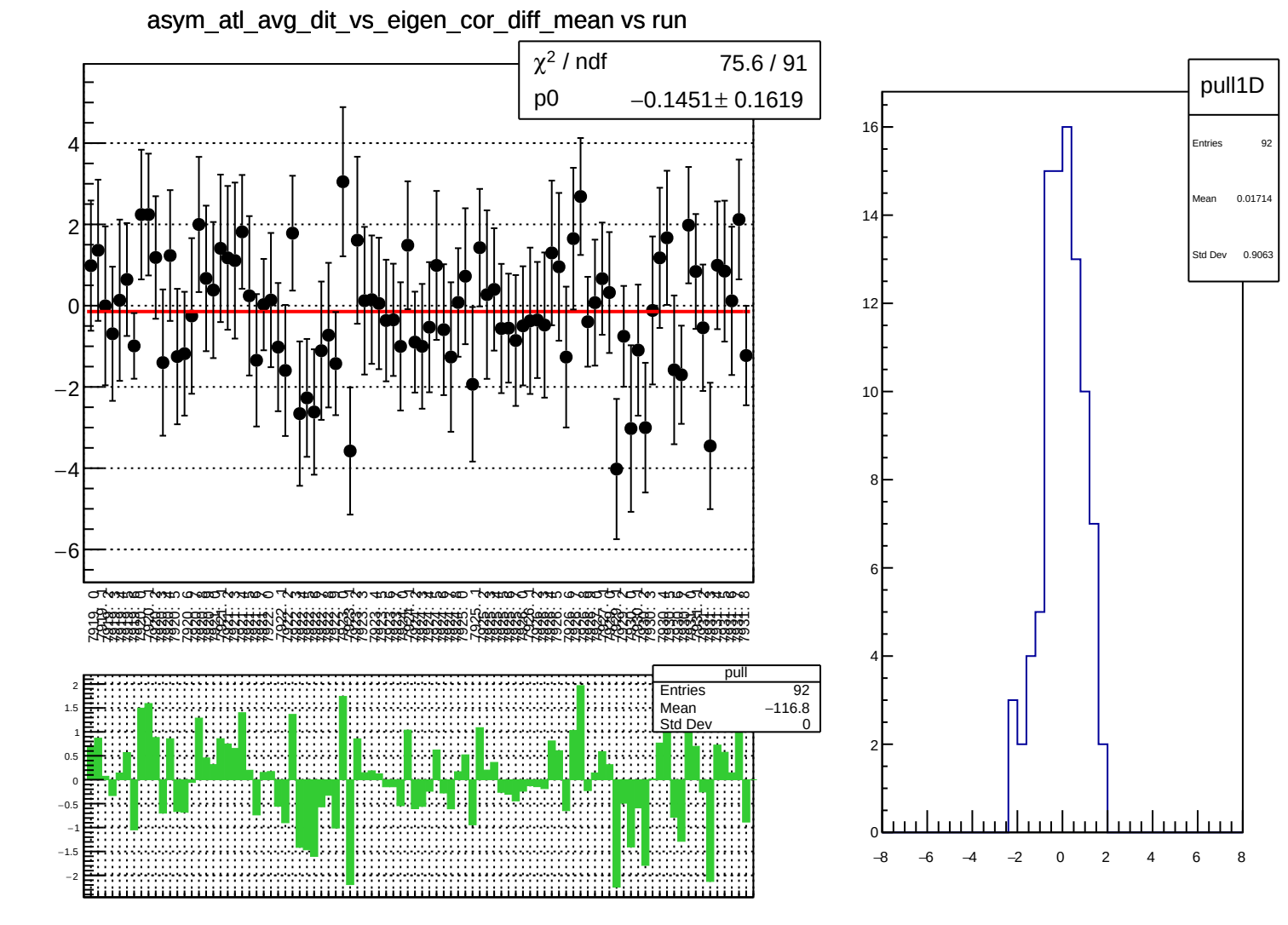

asym_atl_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 85.56 / 91
p0 7.878e−13 ± 5.696e−13
0.01
0.005
0
−0.005
−0.01
pull
Entries 92
Mean 334
Std Dev 0
pull1D
Entries 92
Mean 0.004532
Std Dev 0.9644

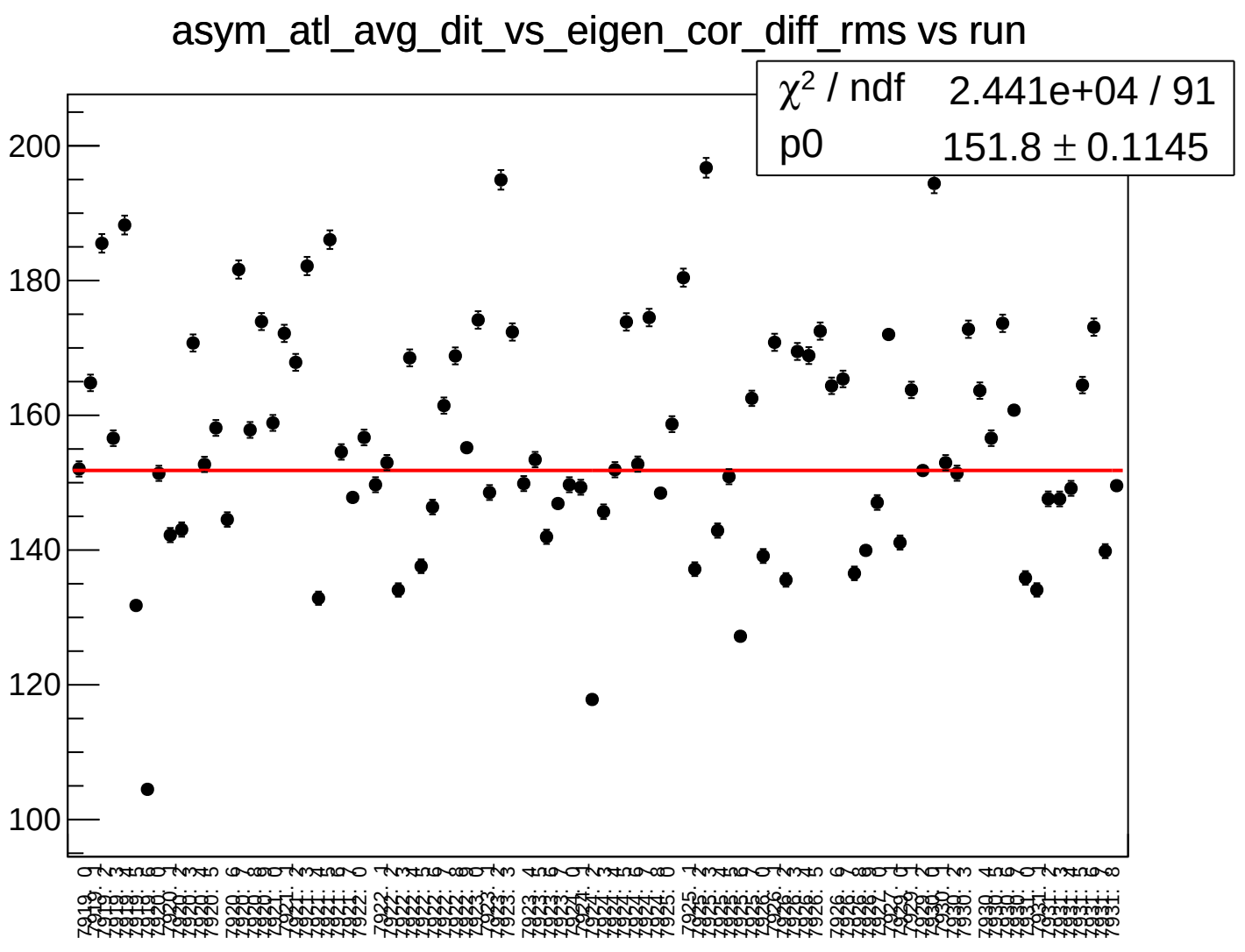

asym_atl_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.134e+06 / 91
p0 3.245e−10 ± 4.027e−13
0.5
0.4
0.3
0.2
0.1
0

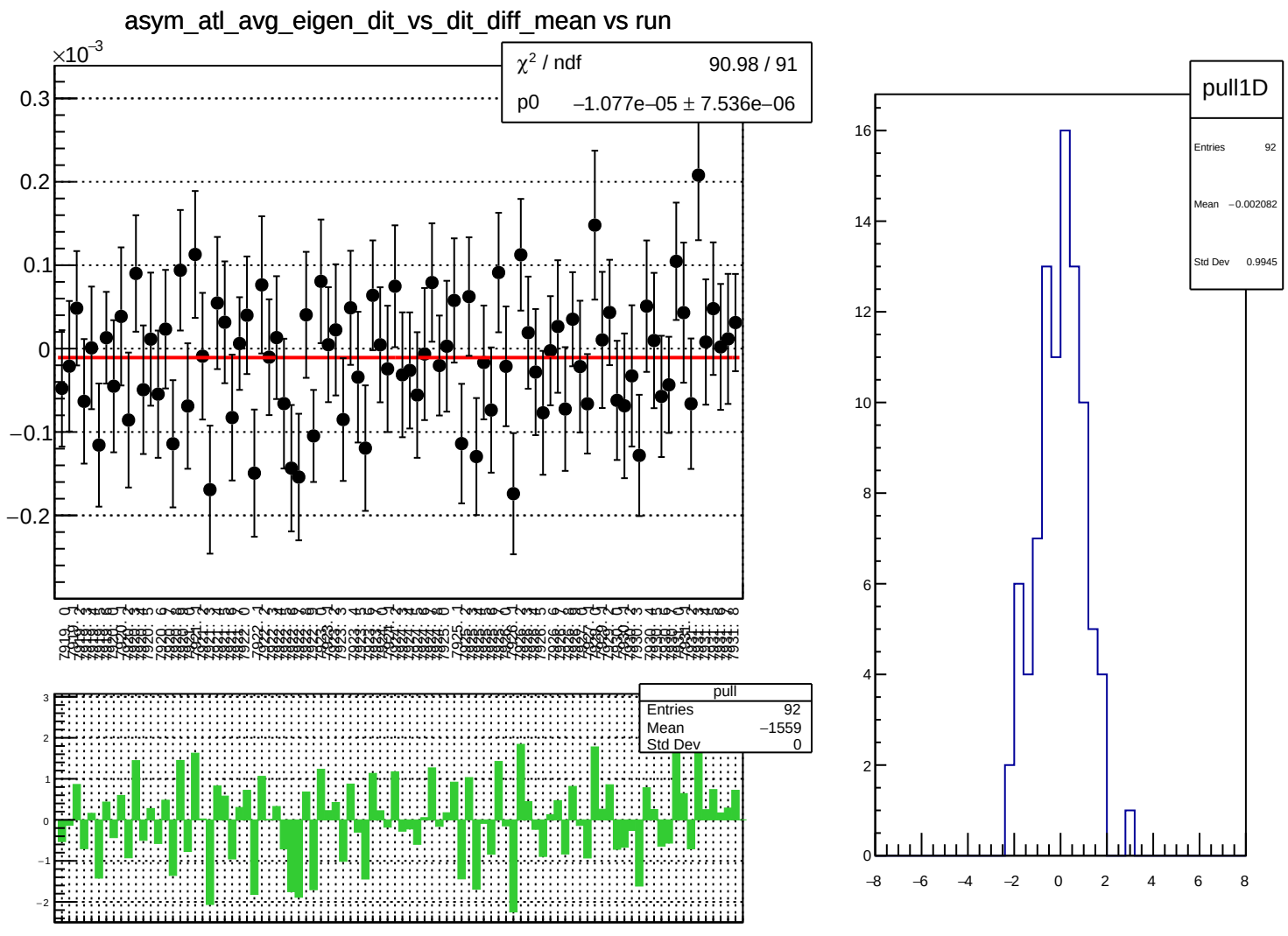

asym_atl_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 75.6 / 91
p0 −0.1451± 0.1619
pull
Entries 92
Mean −116.8
Std Dev 0

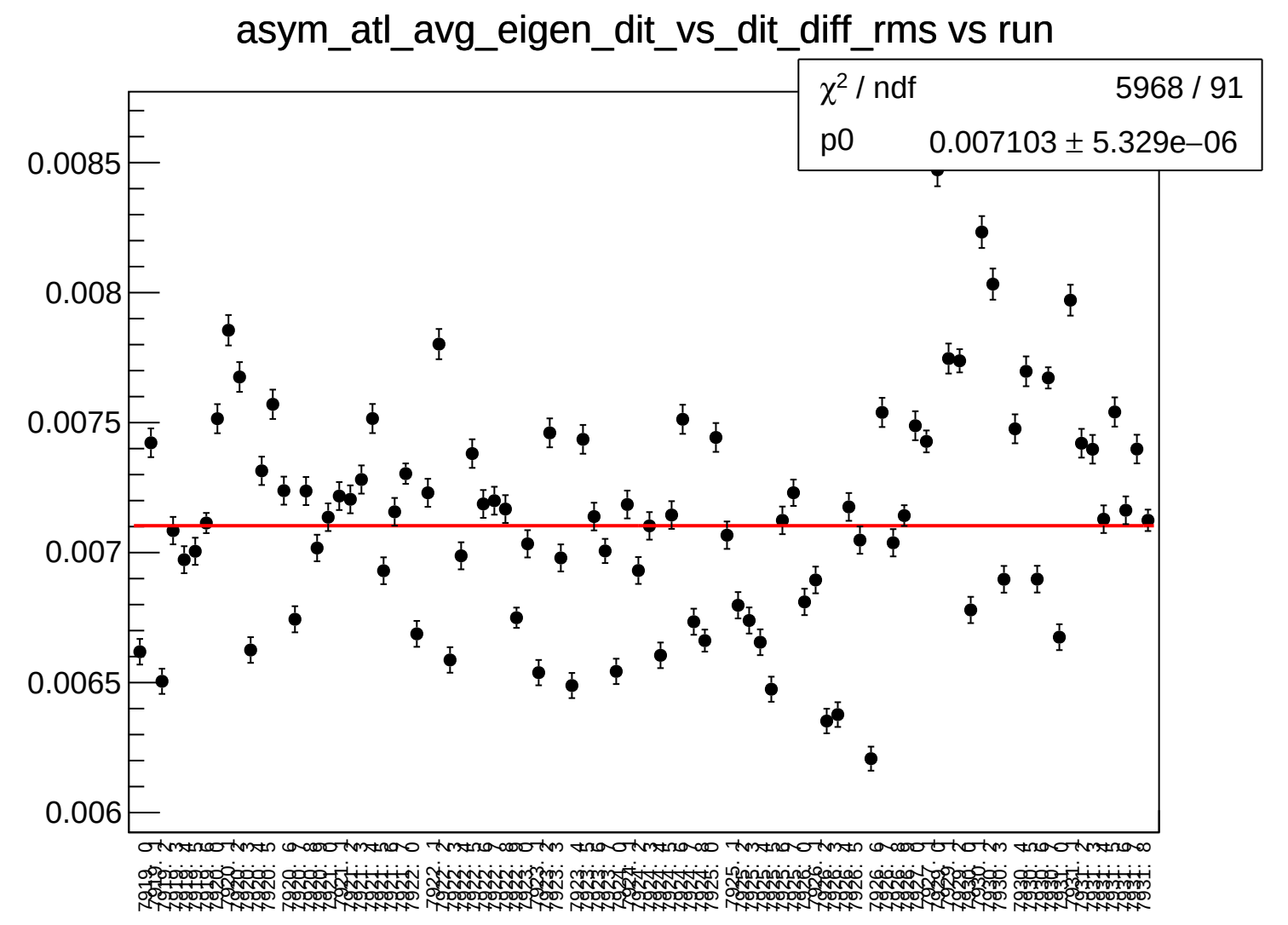

pull1D
Entries 92
Mean 0.01714
Std Dev 0.9063

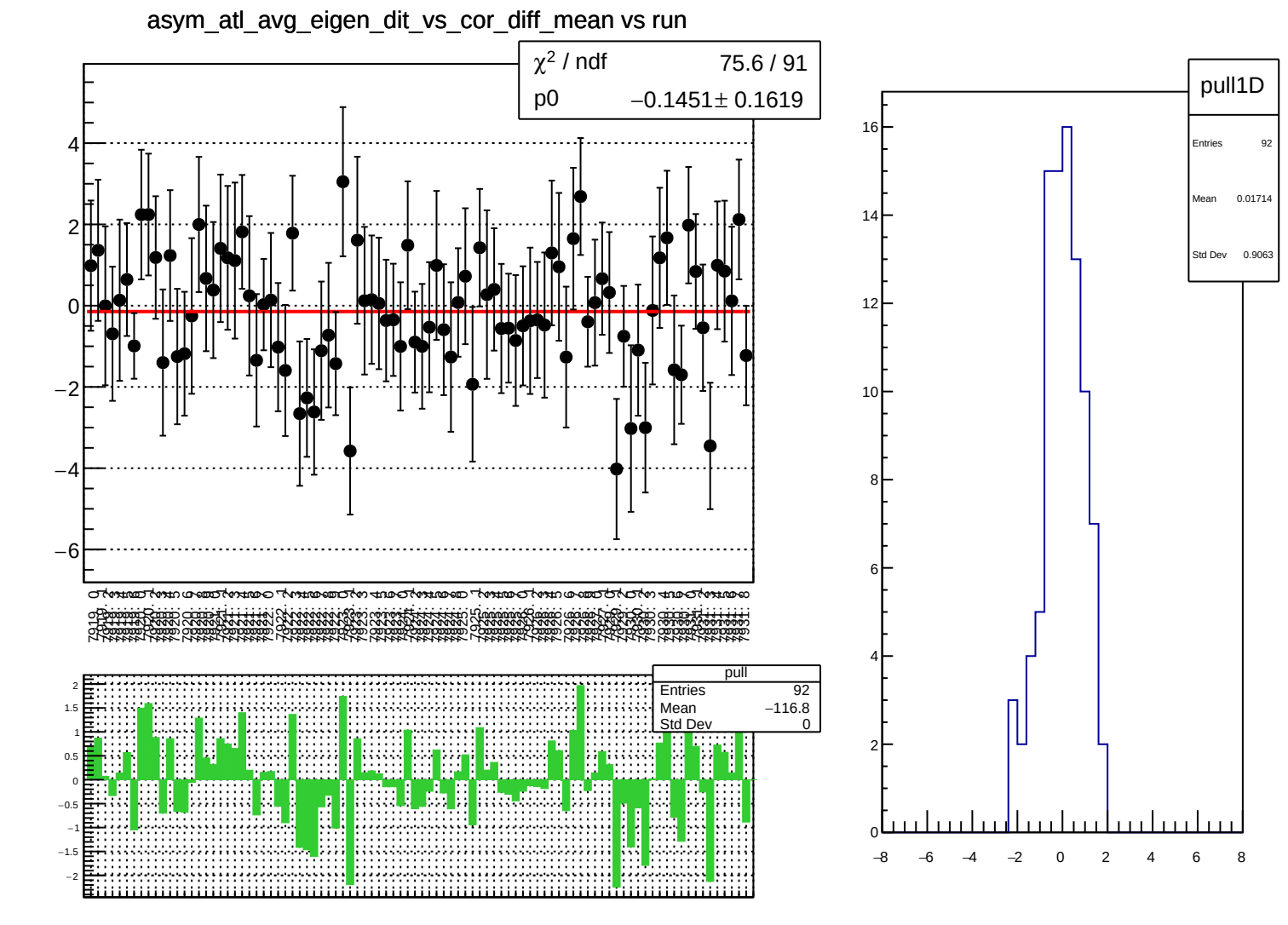

asym_atl_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.441e+04 / 91
p0 151.8 ± 0.1145
200
180
160
140
120
100

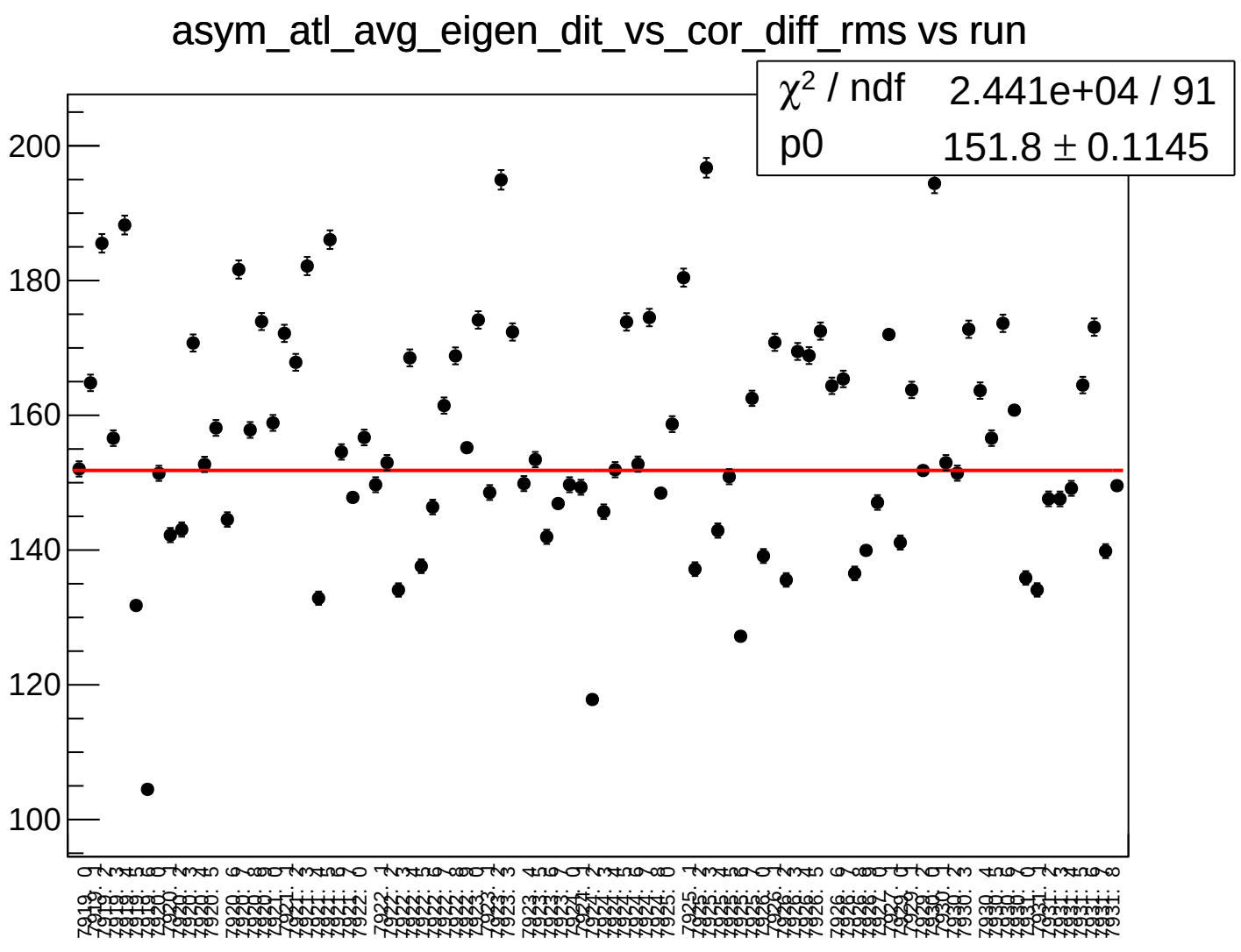

asym_atl_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.6 / 91
p0 −0.1451± 0.1619
pull
Entries 92
Mean −116.8
Std Dev 0
pull1D
Entries 92
Mean 0.01714
Std Dev 0.9063


asym_atl_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.441e+04 / 91
p0 151.8 ± 0.1145
200
180
160
140
120
100

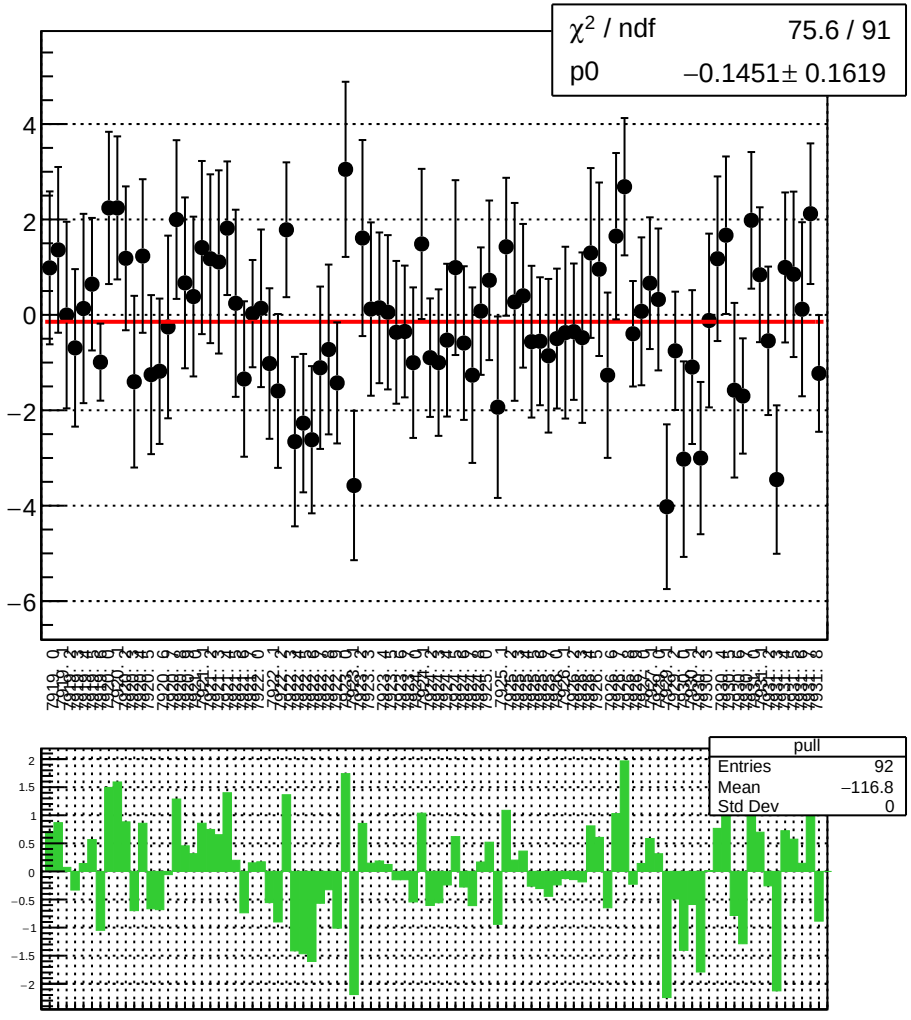

asym_atl_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.98 / 91
p0 −1.077e−05 ± 7.536e−06
0.3
0.2
0.1
0
−0.1
−0.2
pull
Entries 92
Mean −1559
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.002082
Std Dev 0.9945
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

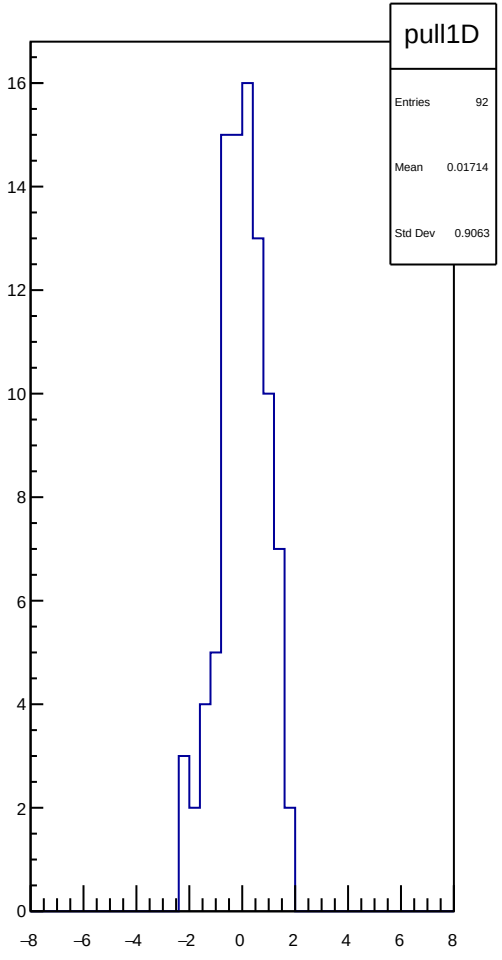

asym_atl_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5968 / 91
p0 0.007103 ± 5.329e−06
0.0085
0.008
0.0075
0.007
0.0065
0.006

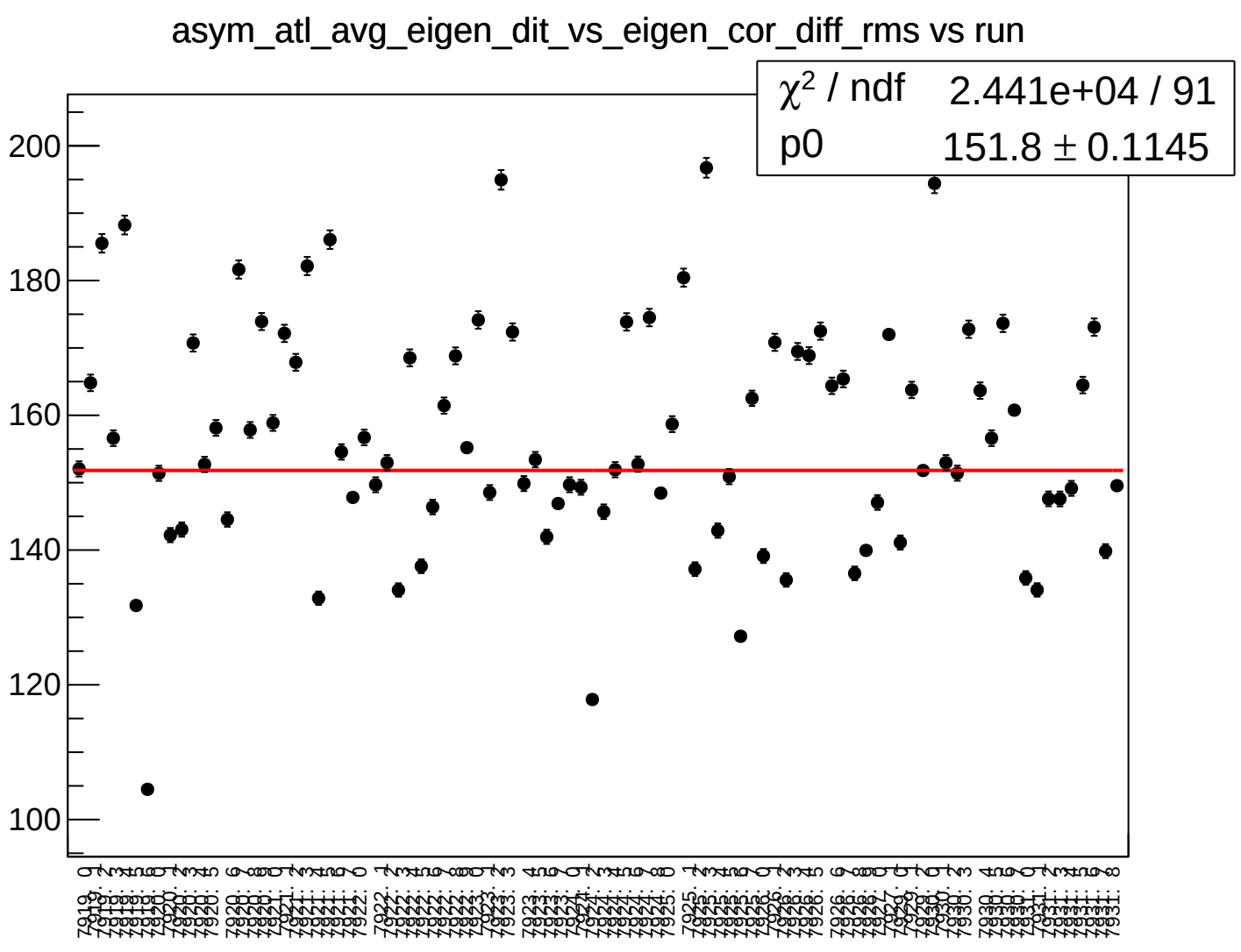

asym_atl_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.6 / 91
p0 −0.1451± 0.1619
pull
Entries 92
Mean −116.8
Std Dev 0
pull1D
Entries 92
Mean 0.01714
Std Dev 0.9063

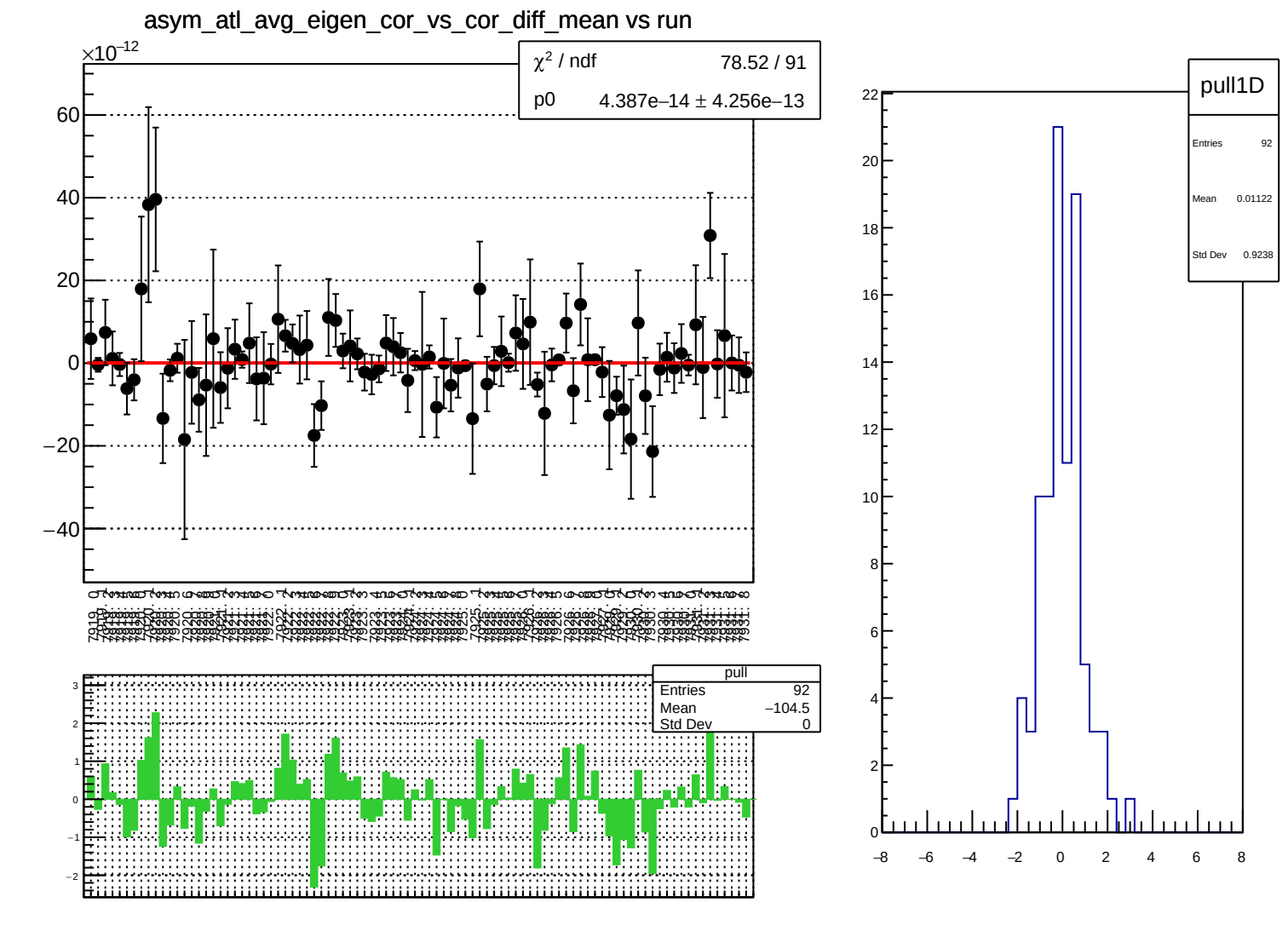

asym_atl_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.441e+04 / 91
p0 151.8 ± 0.1145
200
180
160
140
120
100

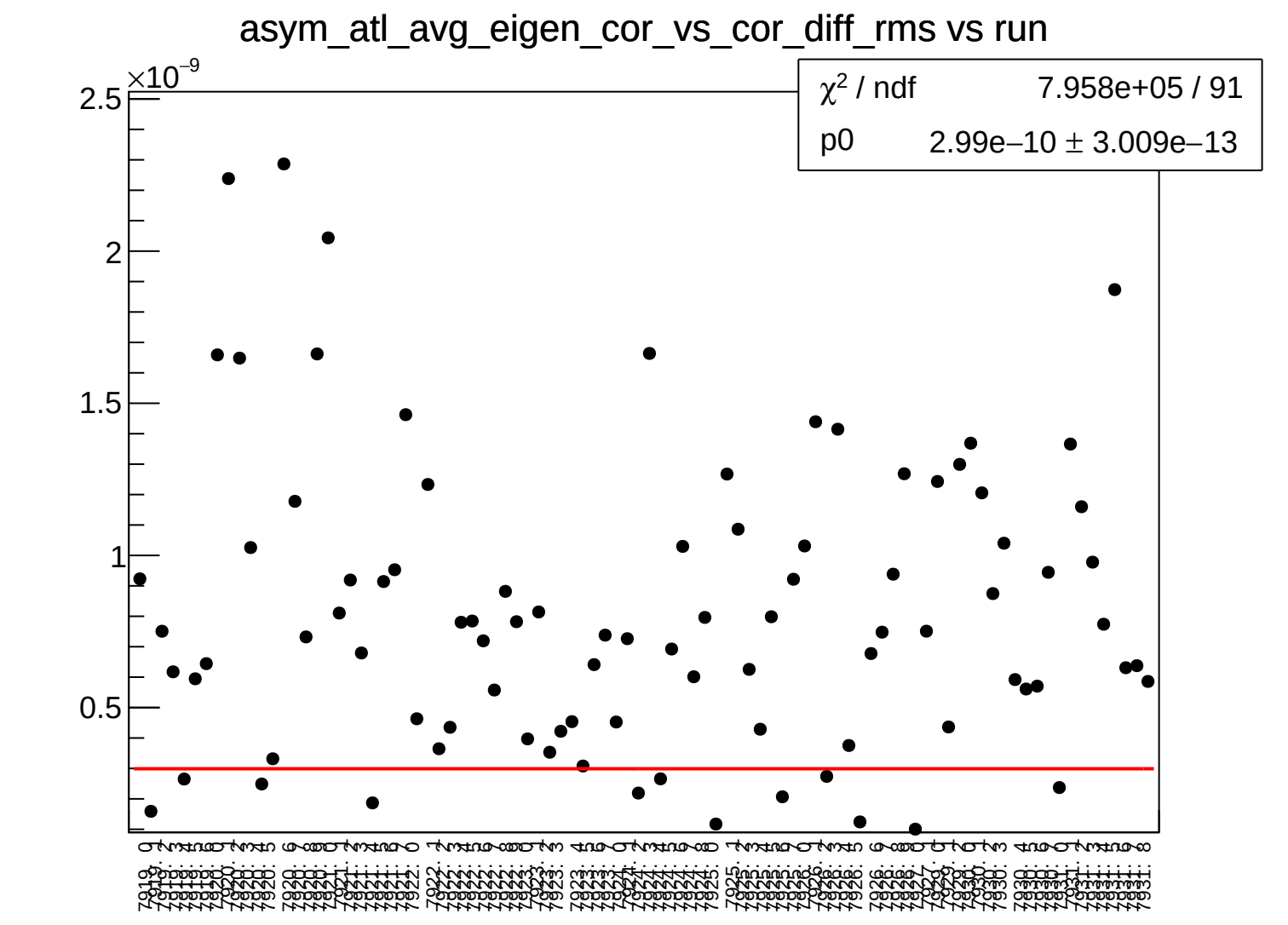
asym_atl_avg_eigen_dit_vs_eigen_cor_diff_mean vs run

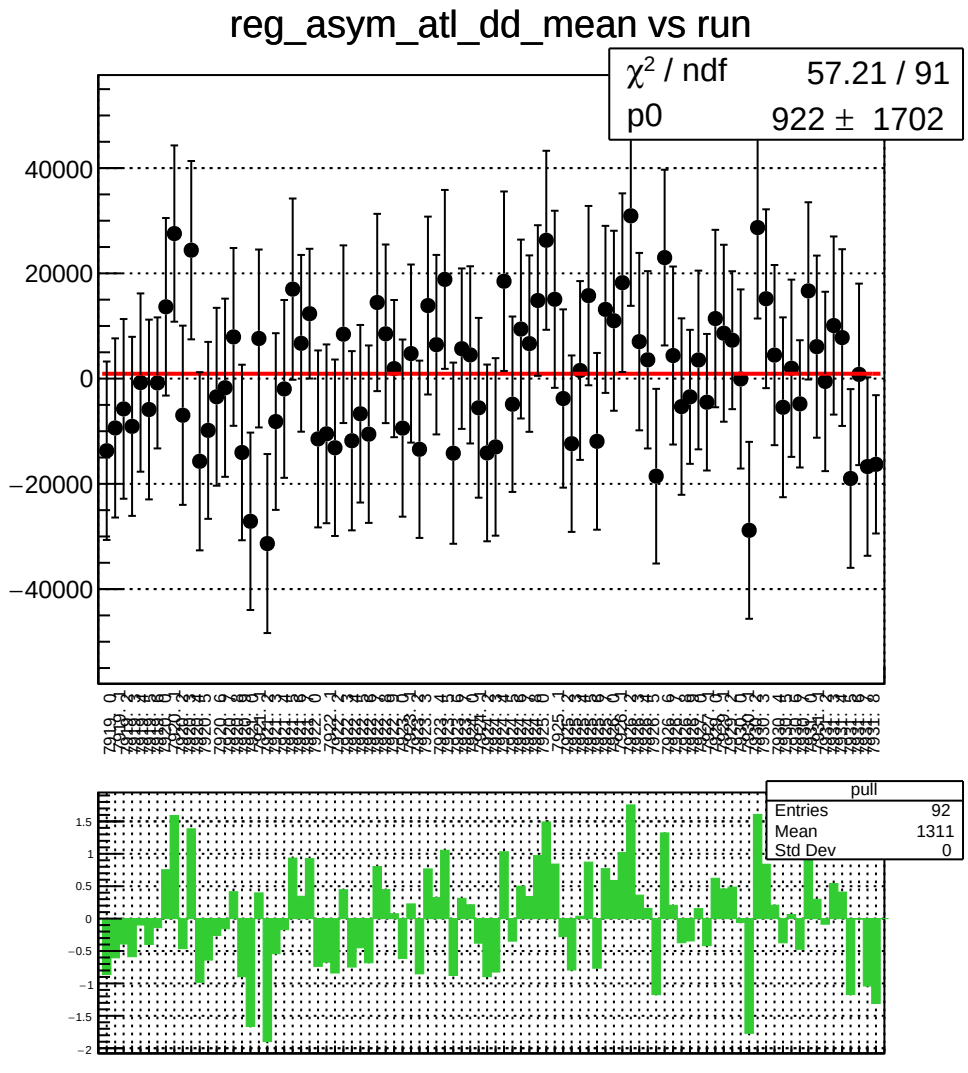


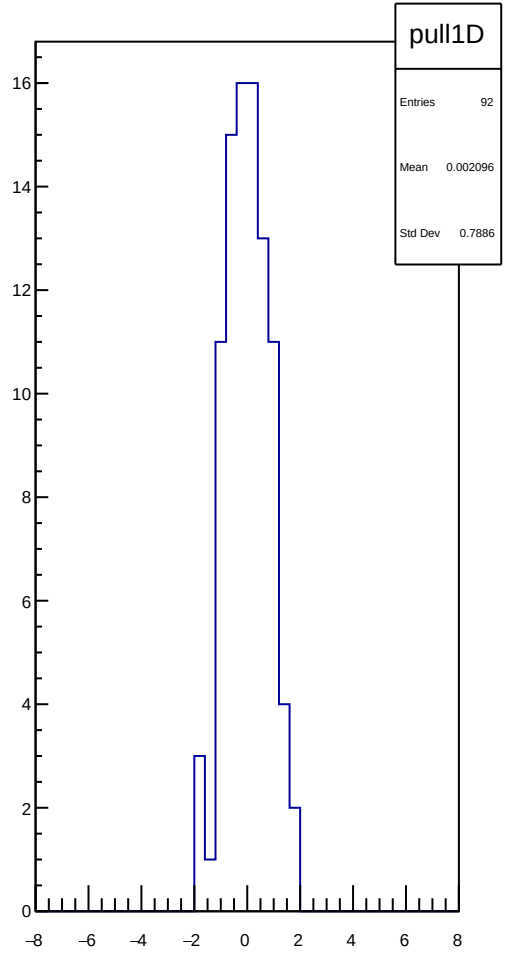


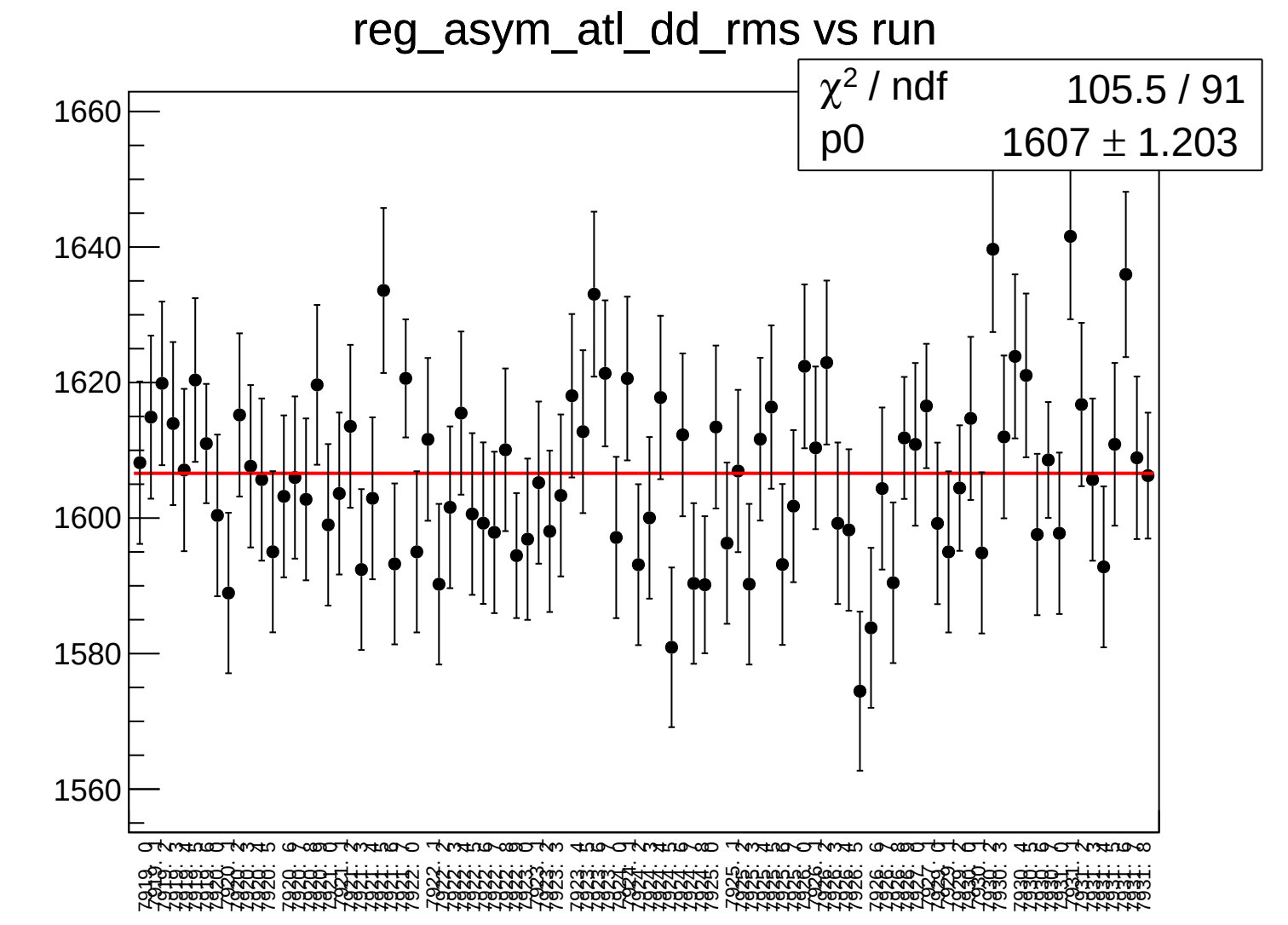

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.441e+04 / 91
p0 151.8 ± 0.1145
200
180
160
140
120
100

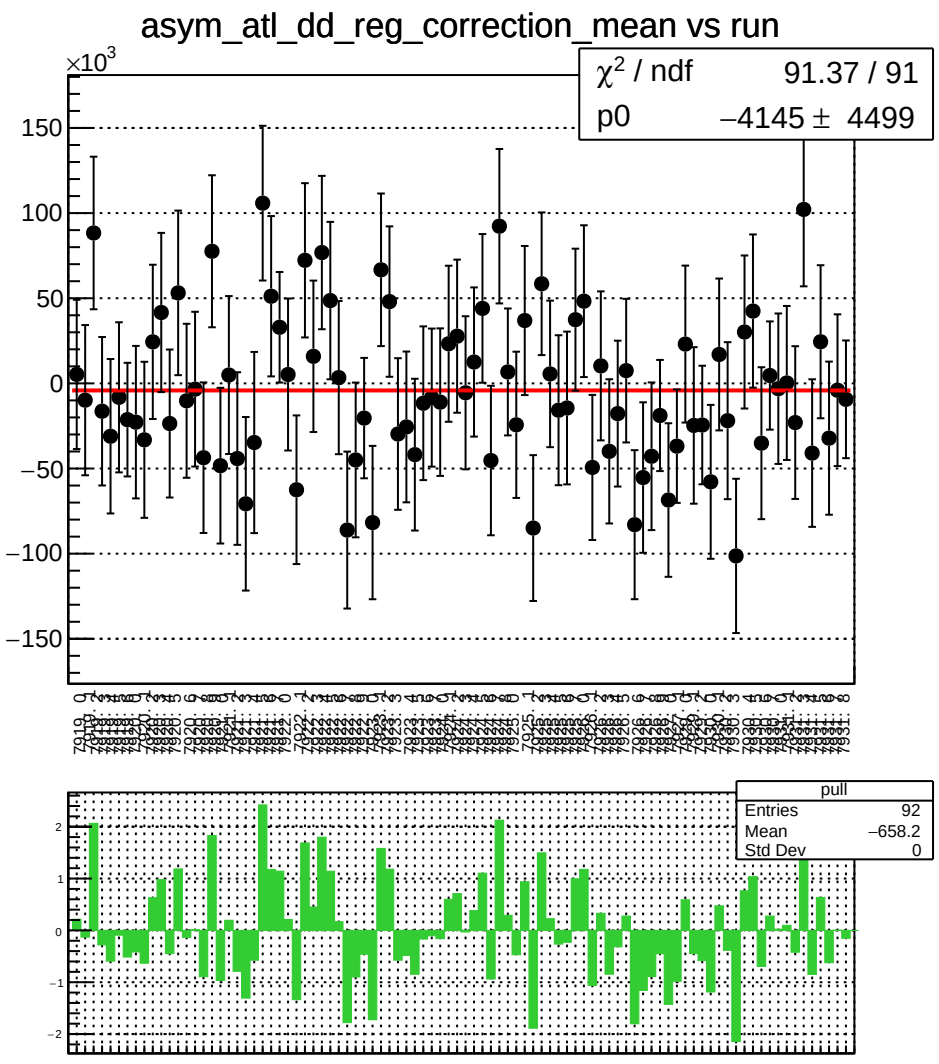

asym_atl_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.52 / 91
p0 4.387e−14 ± 4.256e−13
pull
Entries 92
Mean −104.5
Std Dev 0
pull1D
Entries 92
Mean 0.01122
Std Dev 0.9238

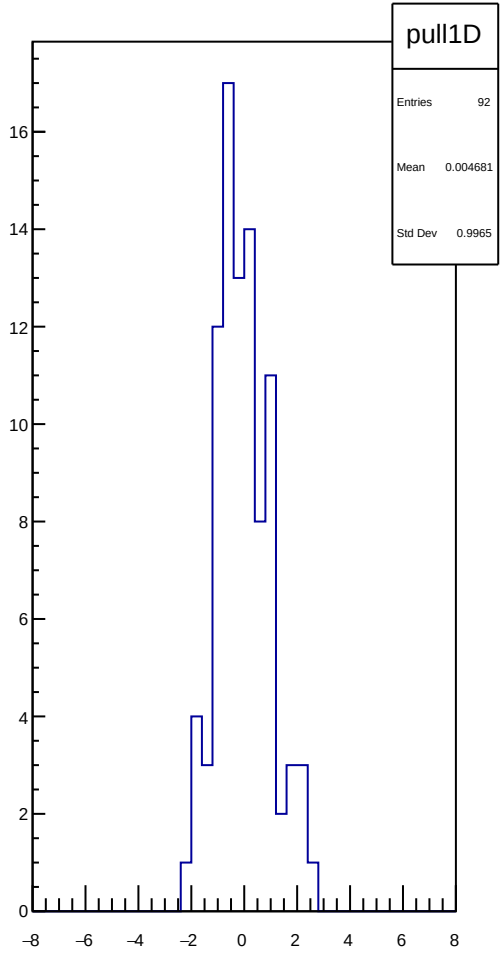

asym_atl_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
2.5
2
1.5
1
0.5
χ² / ndf 7.958e+05 / 91
p0 2.99e−10 ± 3.009e−13

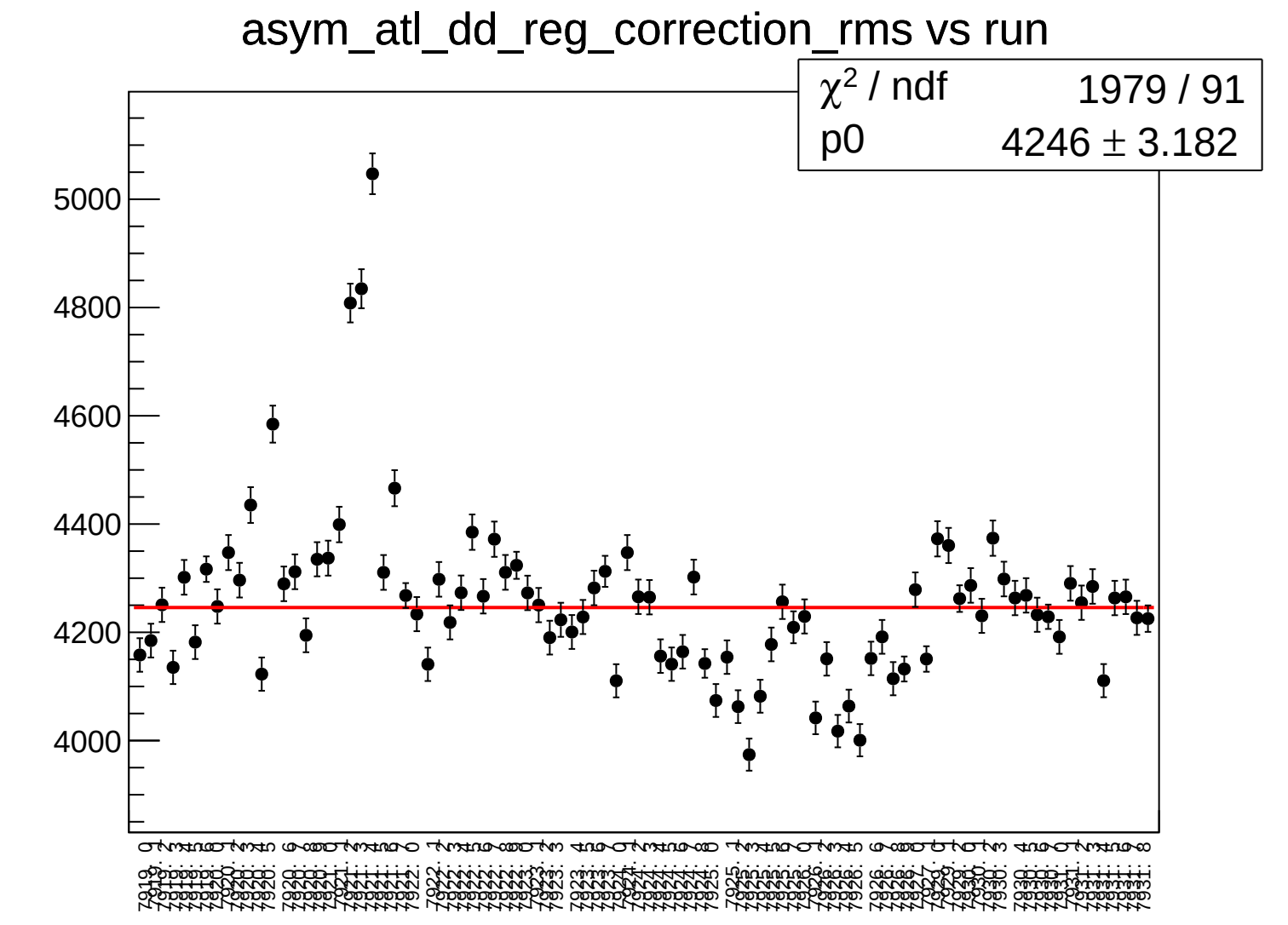

reg_asym_atl_dd_mean vs run
χ² / ndf 57.21 / 91
p0 922 ± 1702
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 1311
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

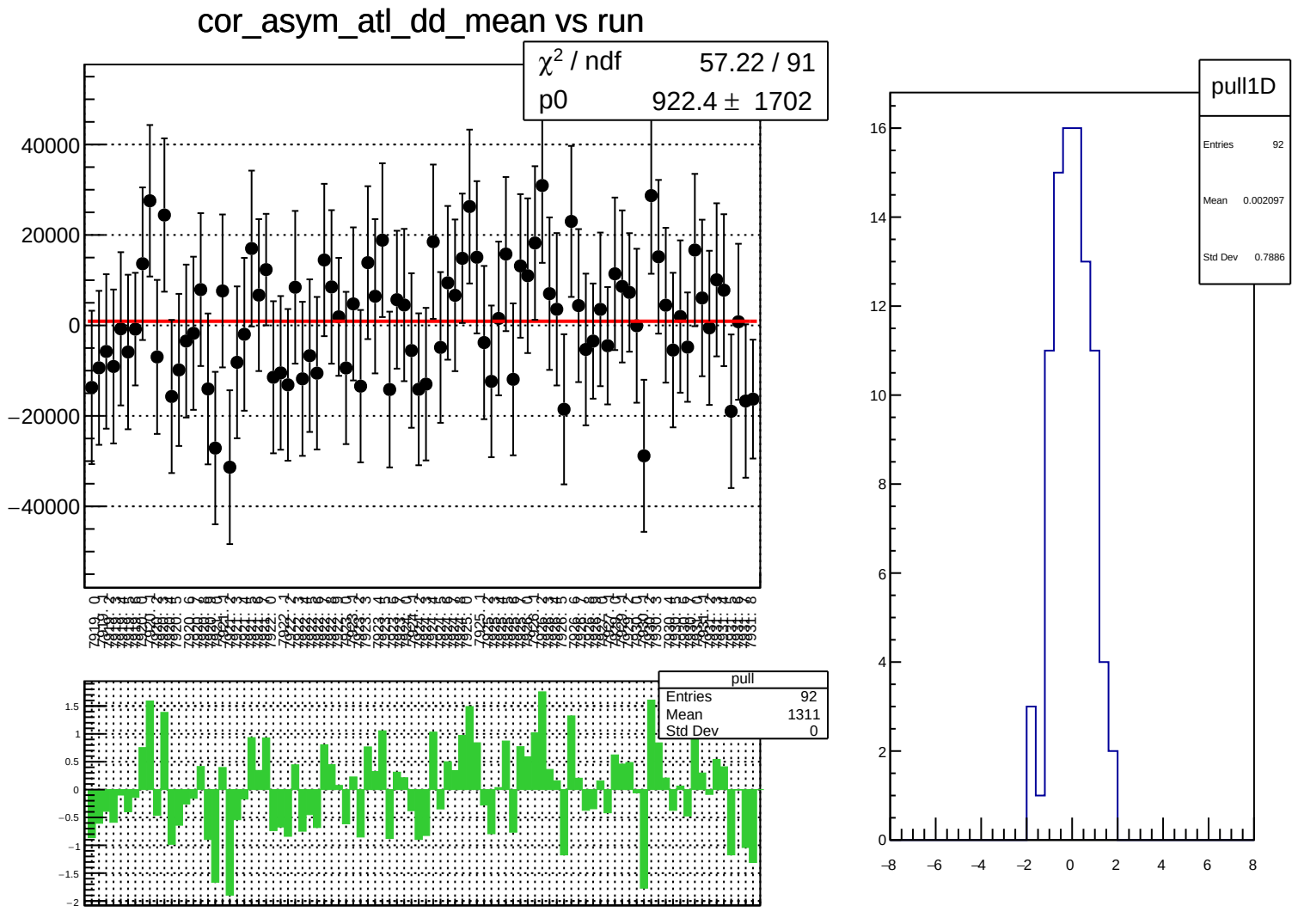

pull1D
Entries 92
Mean 0.002096
Std Dev 0.7886
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

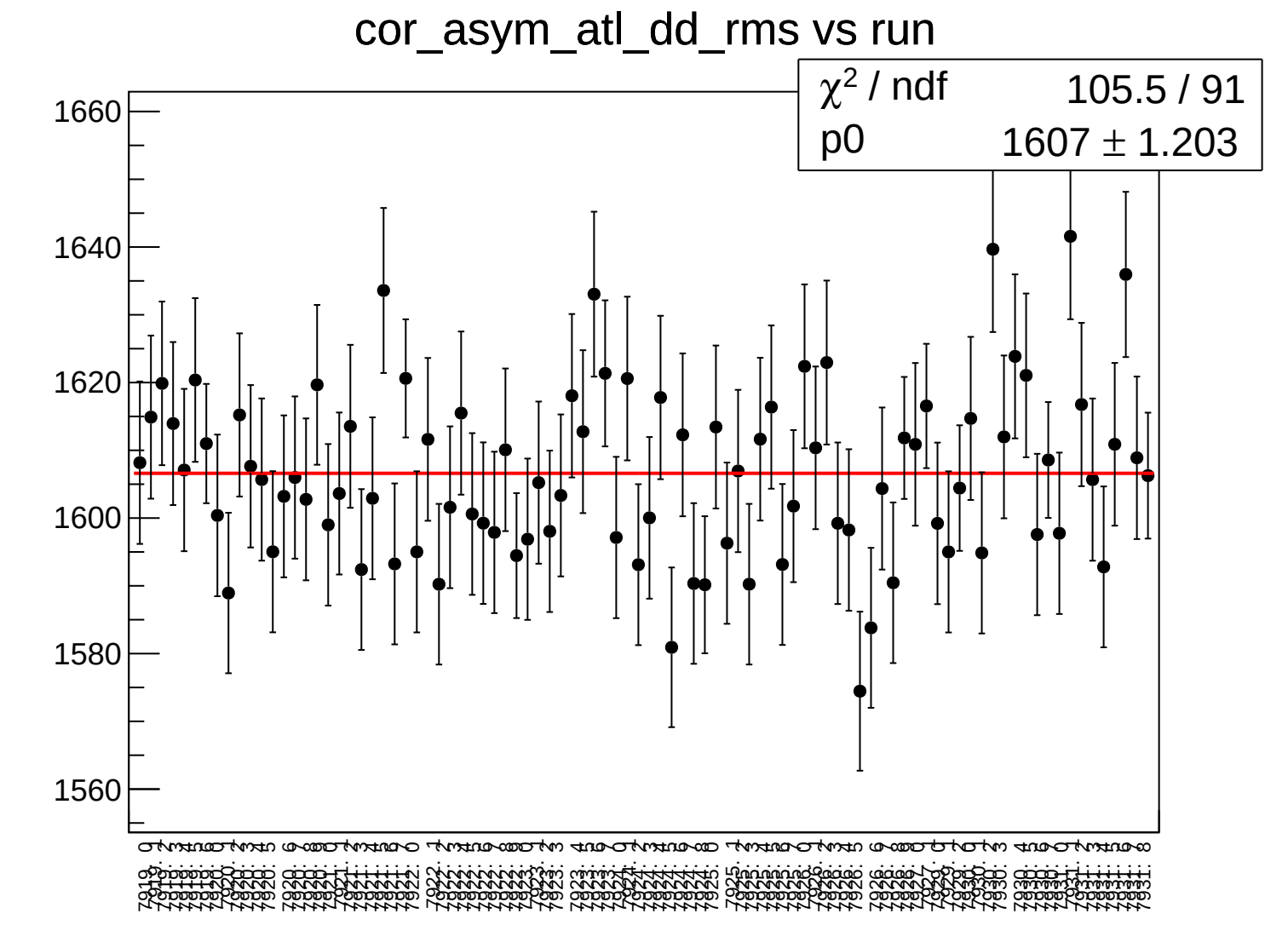

reg_asym_atl_dd_rms vs run
χ² / ndf 105.5 / 91
p0 1607 ± 1.203
1660
1640
1620
1600
1580
1560

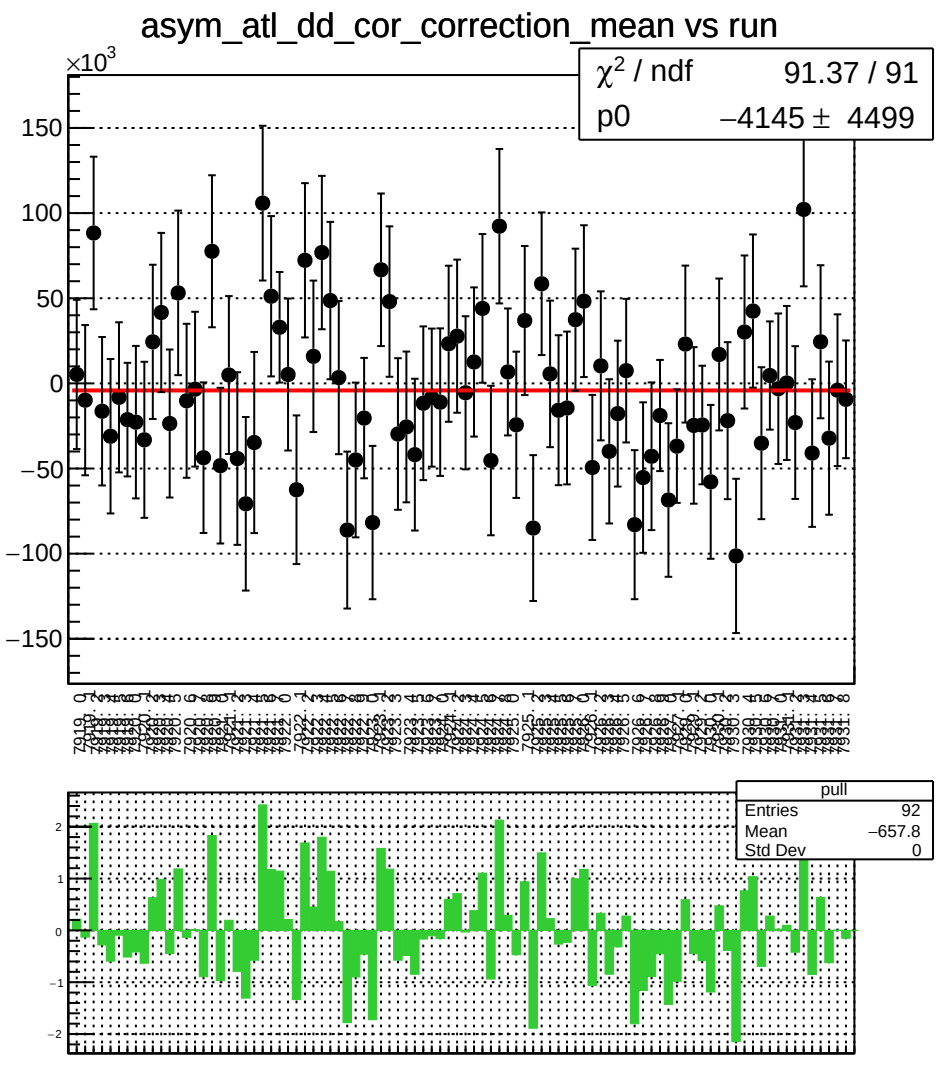

asym_atl_dd_reg_correction_mean vs run
×10^3
χ² / ndf 91.37 / 91
p0 −4145 ± 4499
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean −658.2
Std Dev 0
2
1
0
−1
−2

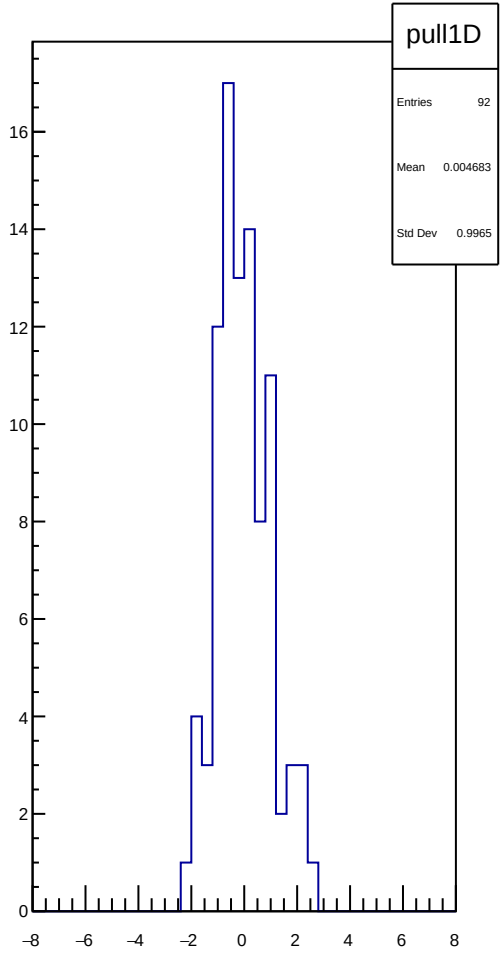

pull1D
Entries 92
Mean 0.004681
Std Dev 0.9965
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

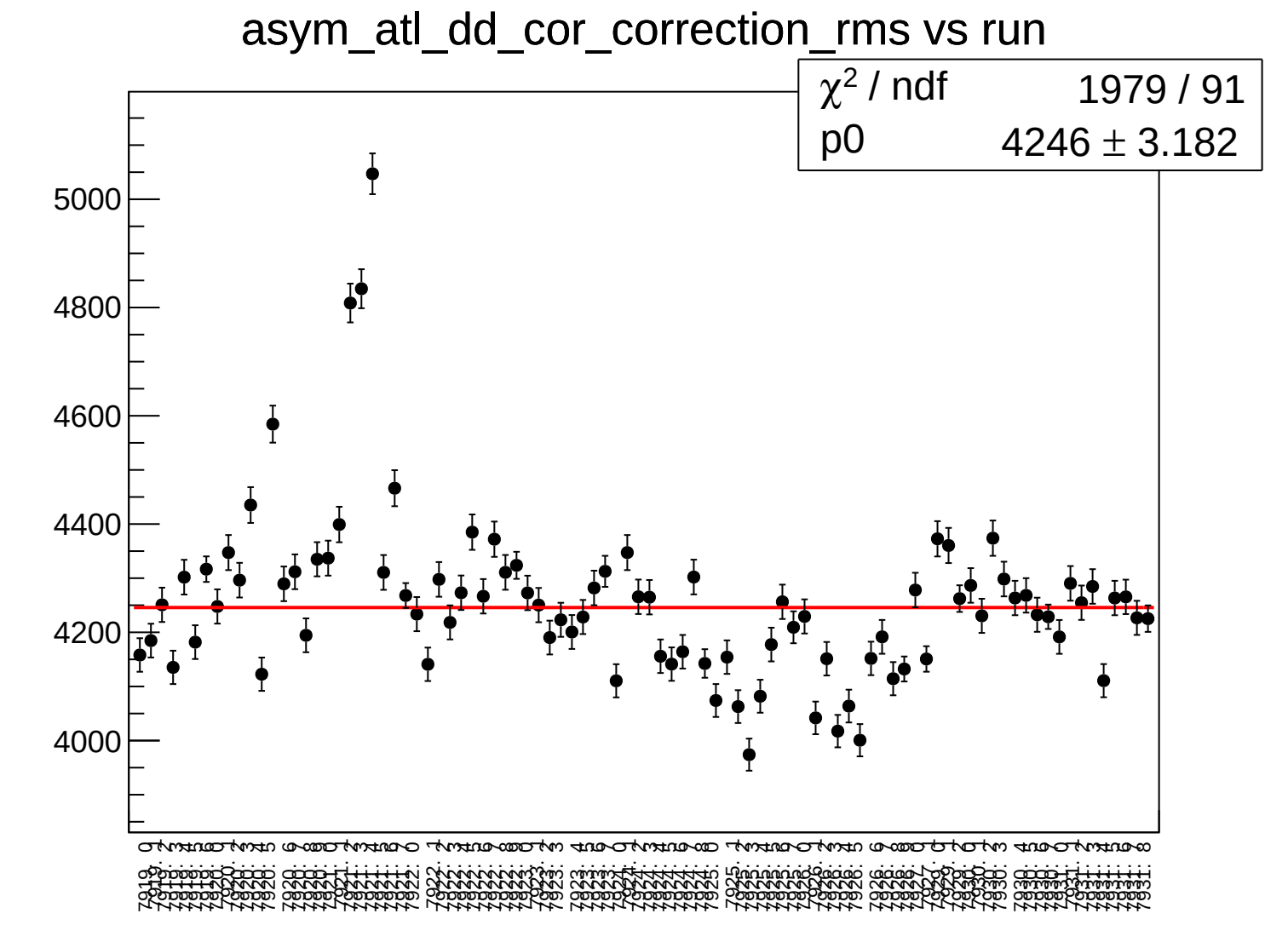

asym_atl_dd_reg_correction_rms vs run
χ² / ndf 1979 / 91
p0 4246 ± 3.182
5000
4800
4600
4400
4200
4000

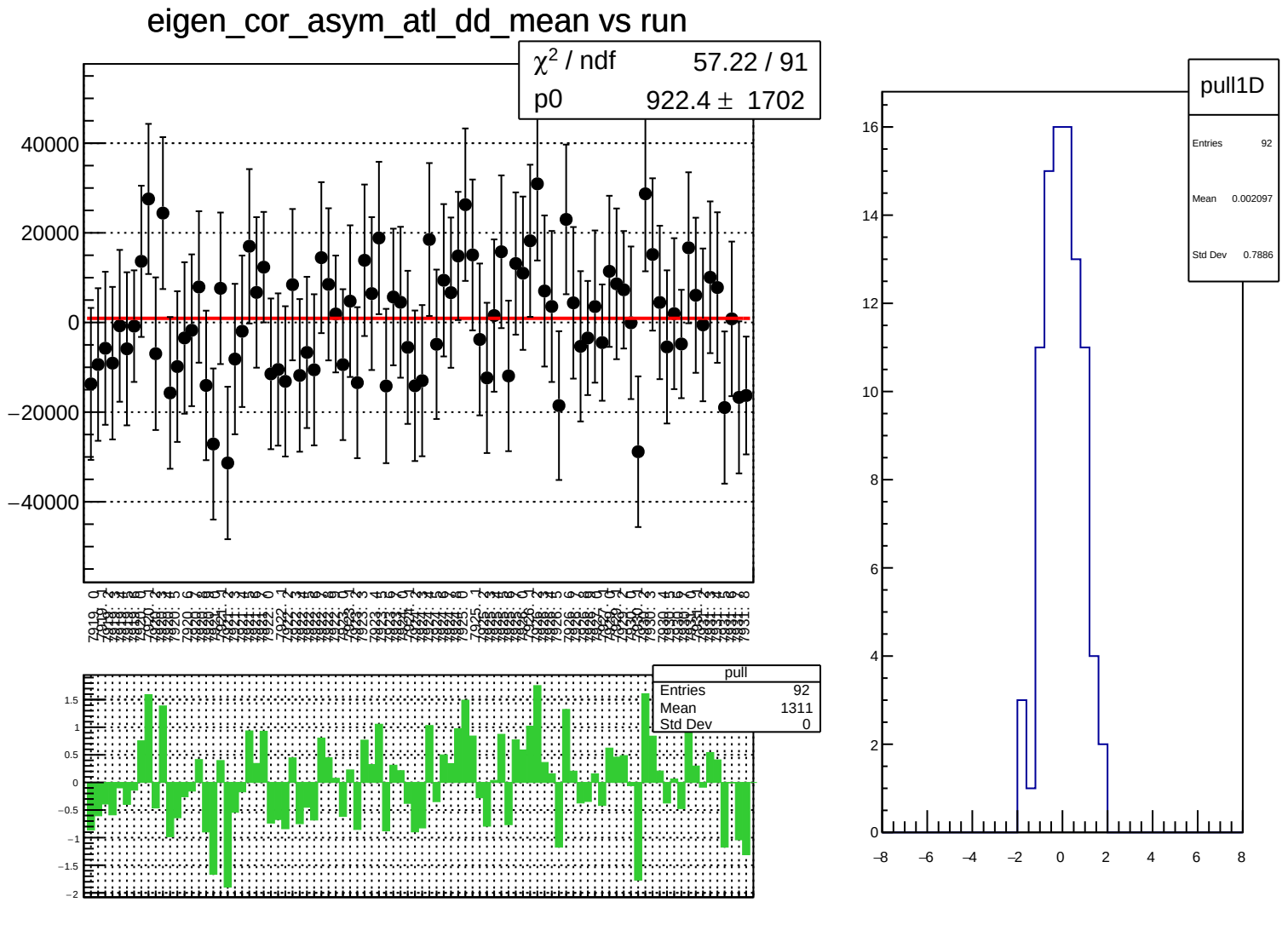

cor_asym_atl_dd_mean vs run
χ² / ndf 57.22 / 91
p0 922.4 ± 1702
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 1311
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean 0.002097
Std Dev 0.7886
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

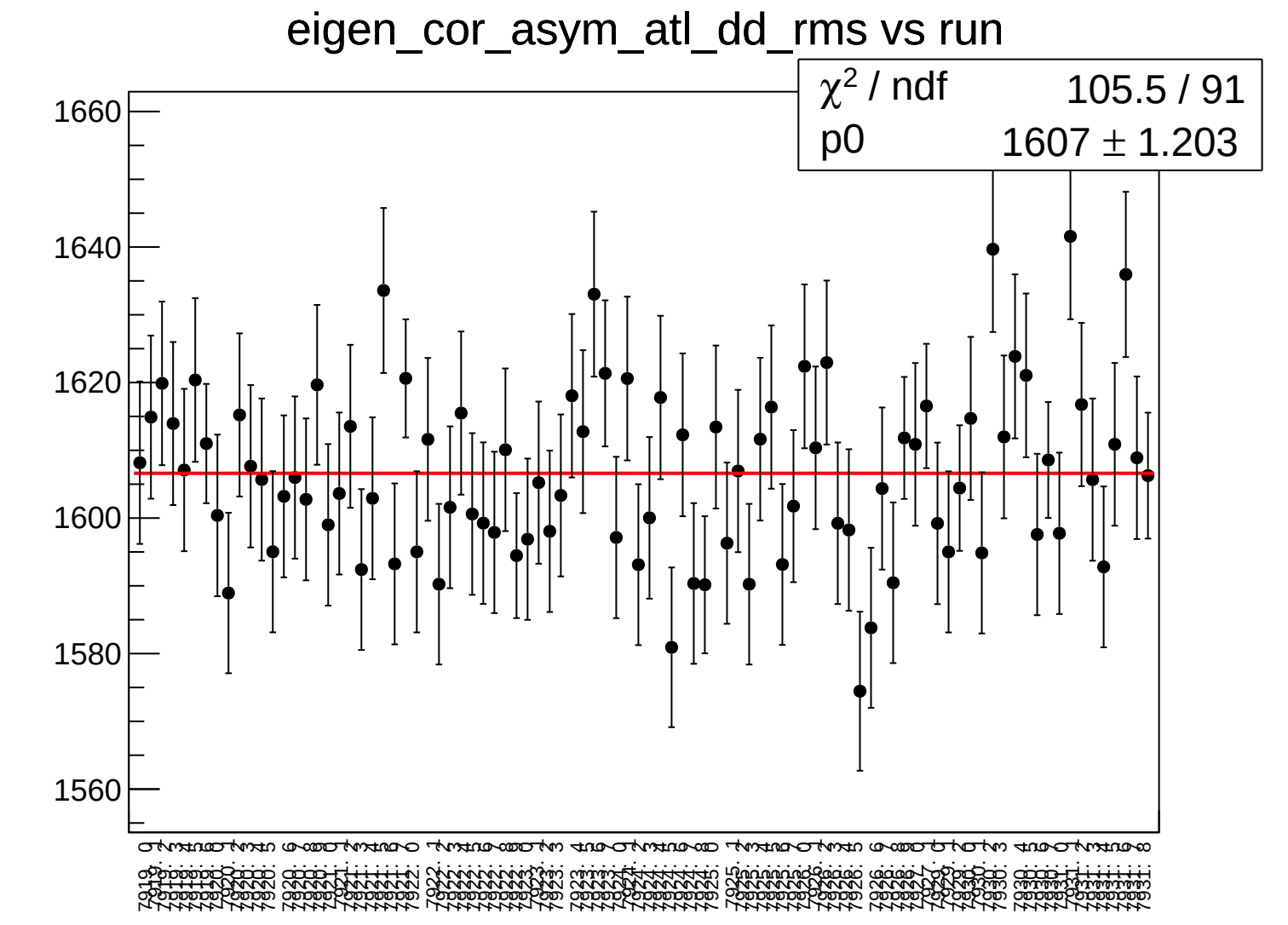

cor_asym_atl_dd_rms vs run
χ² / ndf 105.5 / 91
p0 1607 ± 1.203
1660
1640
1620
1600
1580
1560

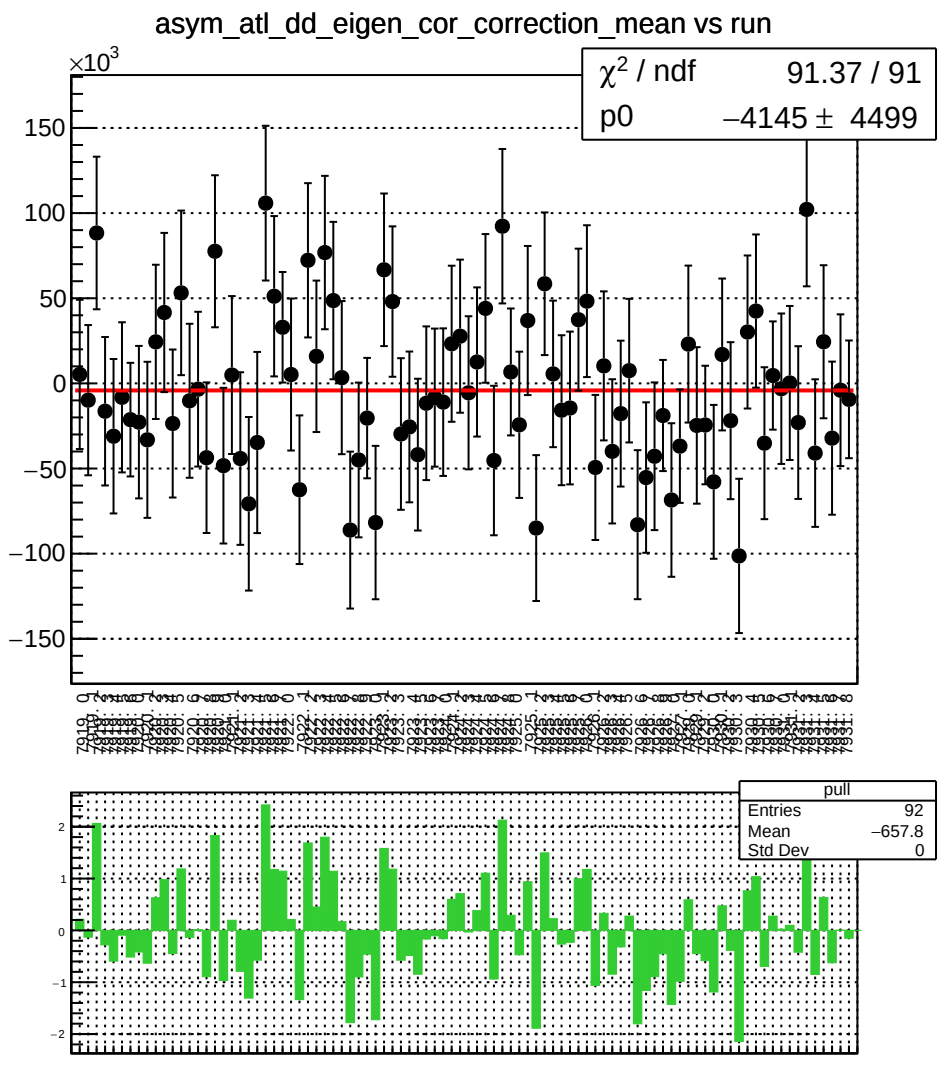

asym_atl_dd_cor_correction_mean vs run
×10^3
χ² / ndf 91.37 / 91
p0 −4145 ± 4499
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean −657.8
Std Dev 0
2
1
0
−1
−2

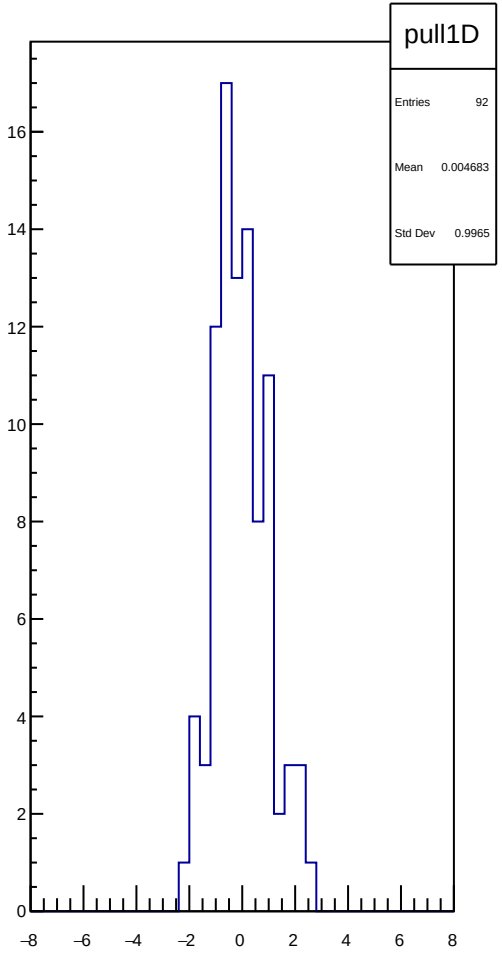

pull1D
Entries 92
Mean 0.004683
Std Dev 0.9965
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

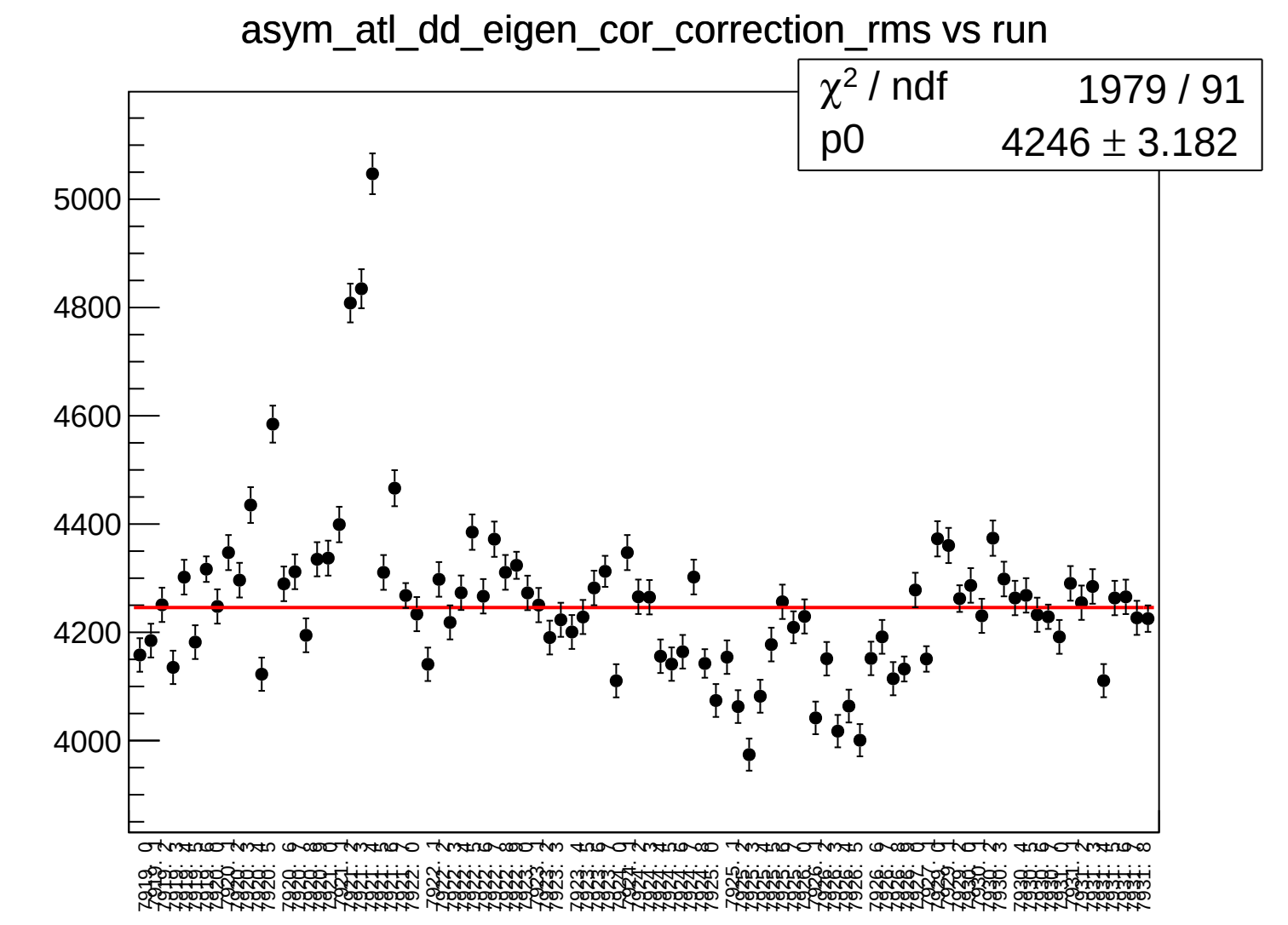

asym_atl_dd_cor_correction_rms vs run
χ² / ndf 1979 / 91
p0 4246 ± 3.182
5000
4800
4600
4400
4200
4000

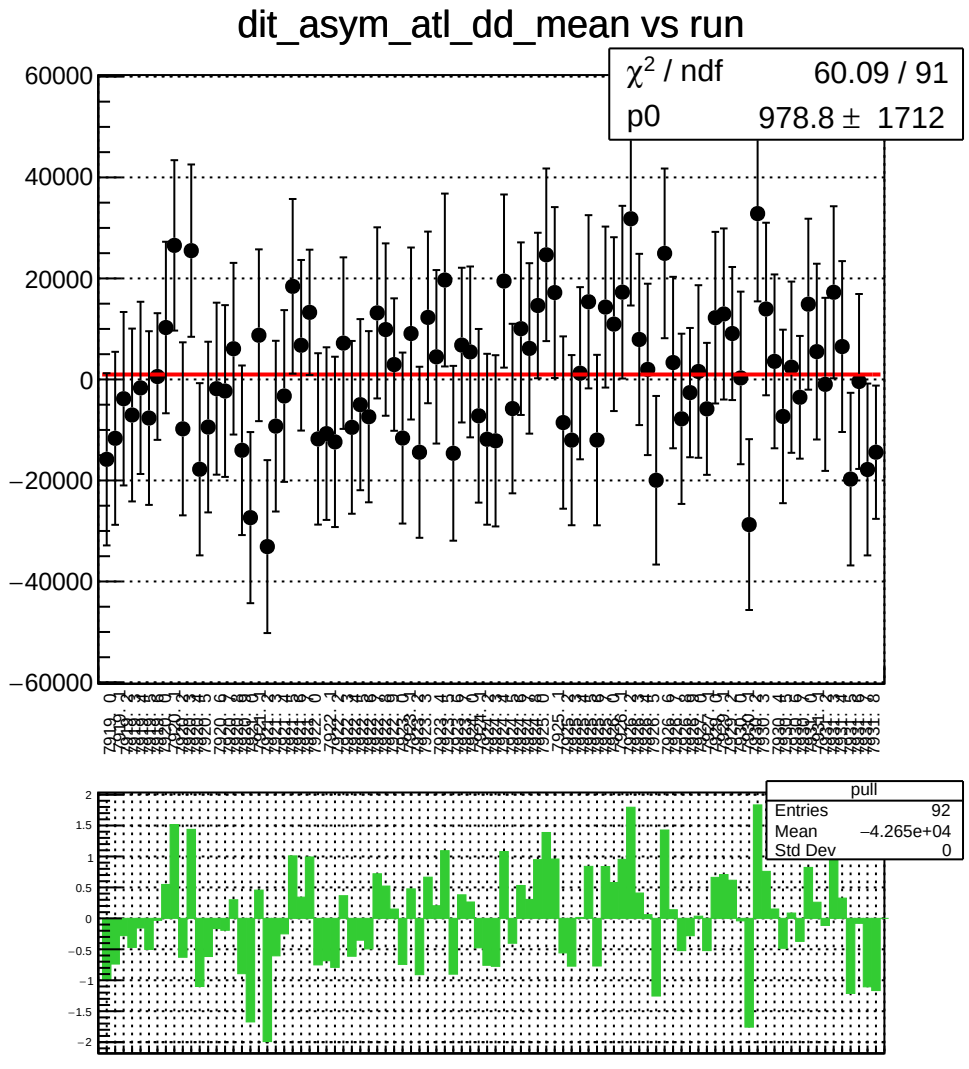

eigen_cor_asym_atl_dd_mean vs run
χ² / ndf 57.22 / 91
p0 922.4 ± 1702
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 1311
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean 0.002097
Std Dev 0.7886
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

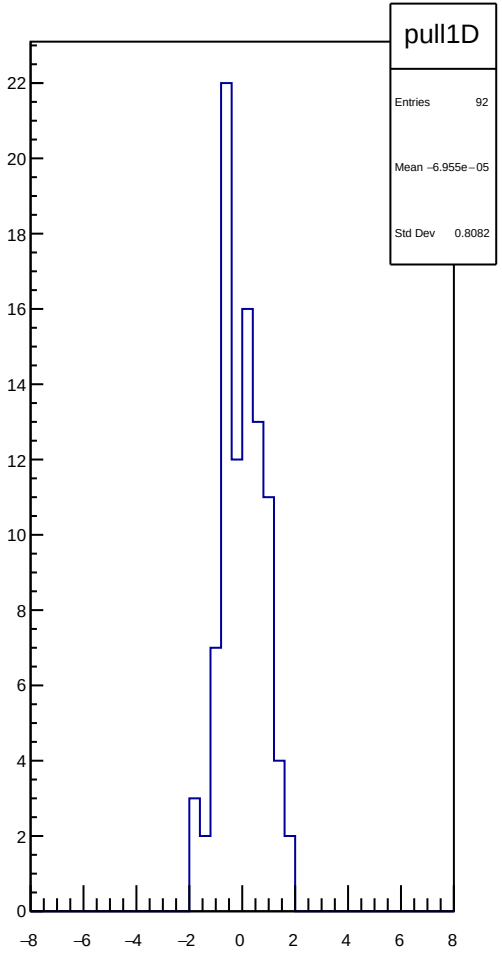

eigen_cor_asym_atl_dd_rms vs run
χ² / ndf 105.5 / 91
p0 1607 ± 1.203
1660
1640
1620
1600
1580
1560

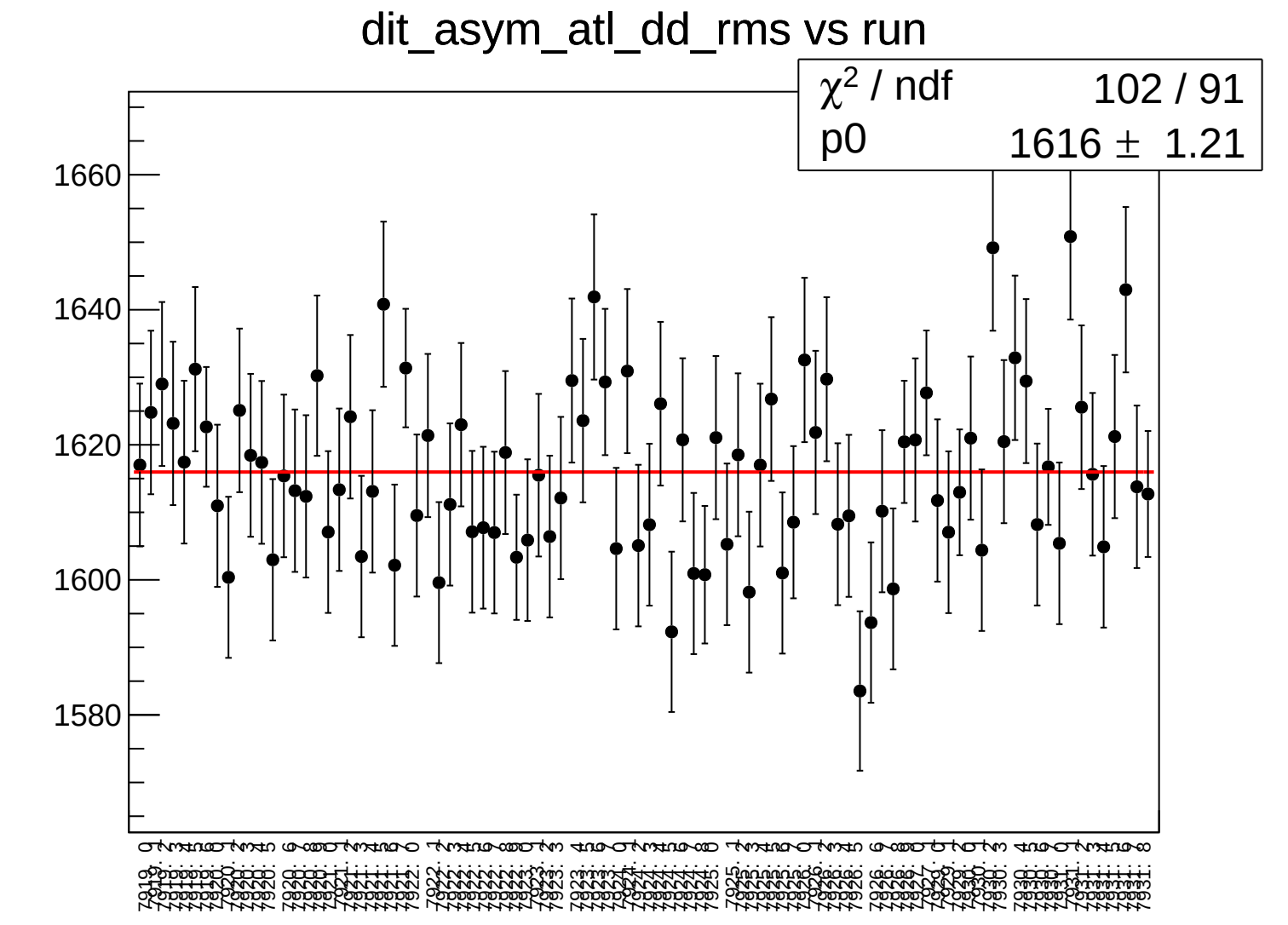

asym_atl_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 91.37 / 91
p0 −4145 ± 4499
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean −657.8
Std Dev 0
2
1
0
−1
−2

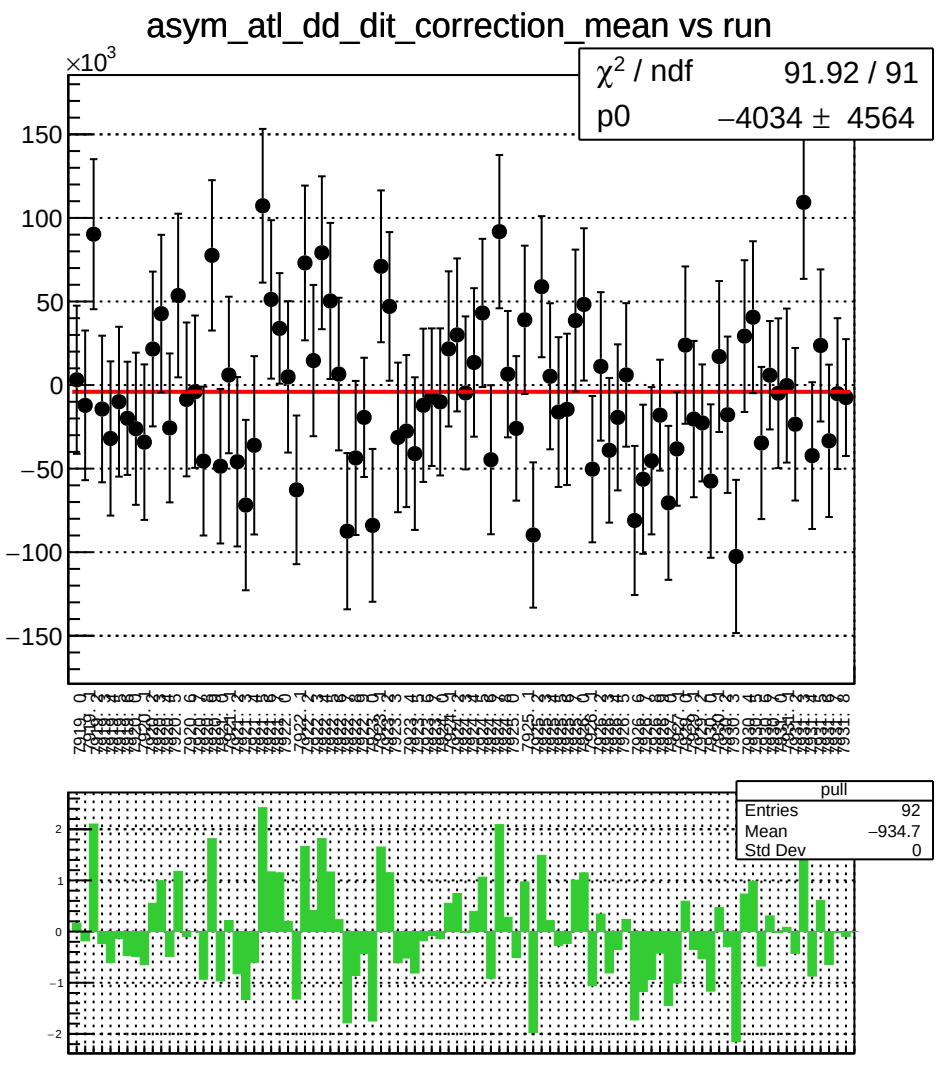

pull1D
Entries 92
Mean 0.004683
Std Dev 0.9965
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

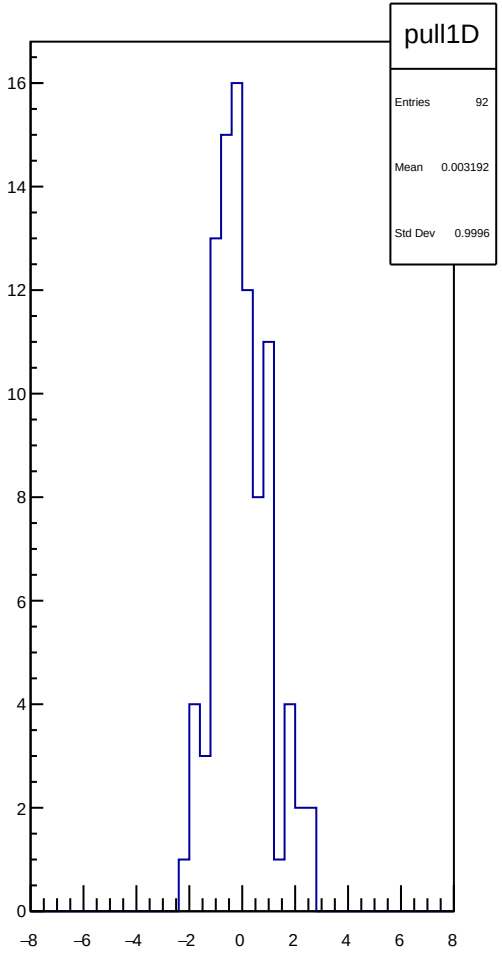

asym_atl_dd_eigen_cor_correction_rms vs run
χ² / ndf 1979 / 91
p0 4246 ± 3.182
5000
4800
4600
4400
4200
4000

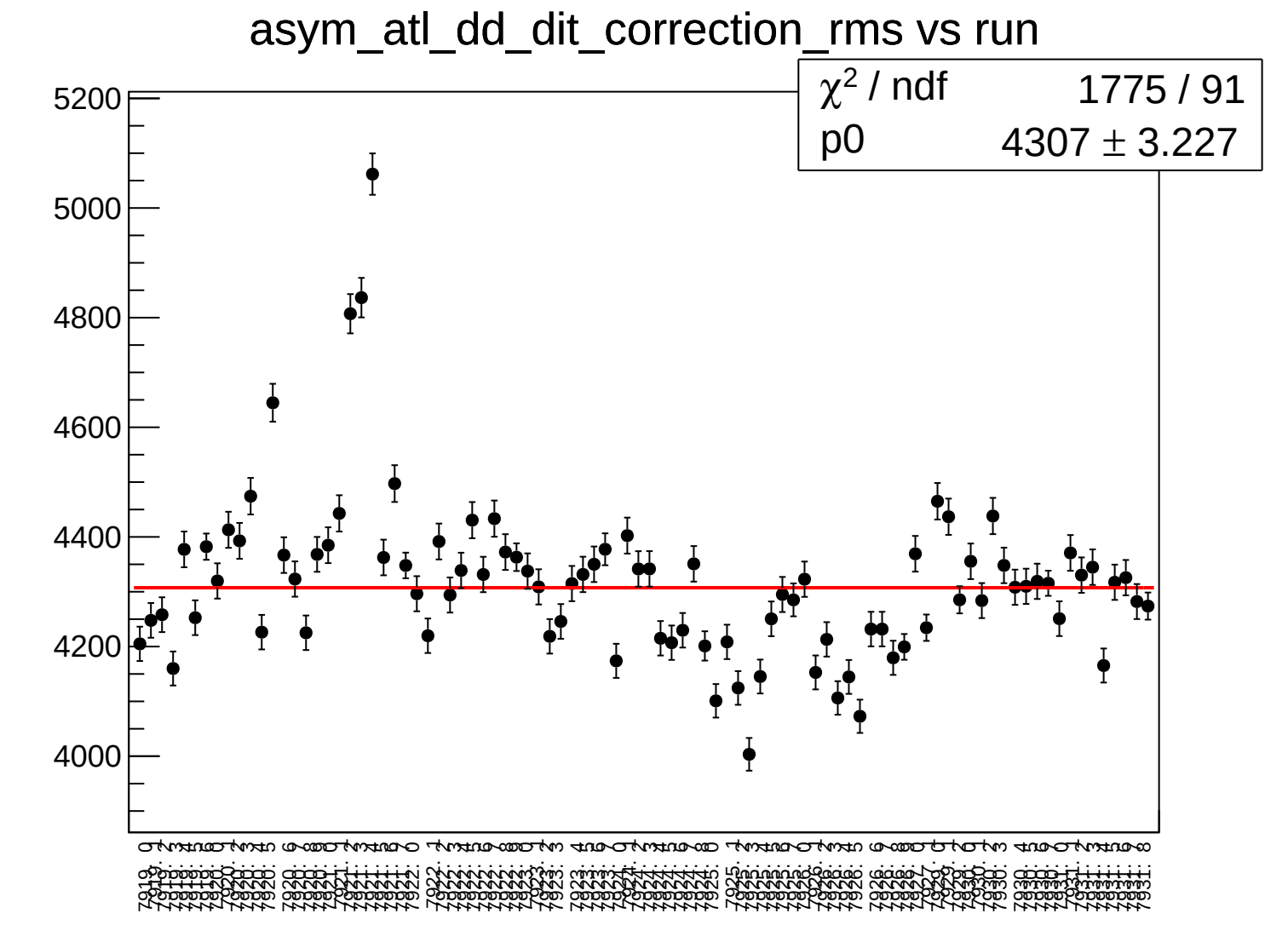

dit_asym_atl_dd_mean vs run
χ^2 / ndf 60.09 / 91
p0 978.8 ± 1712
pull
Entries 92
Mean −4.265e+04
Std Dev 0

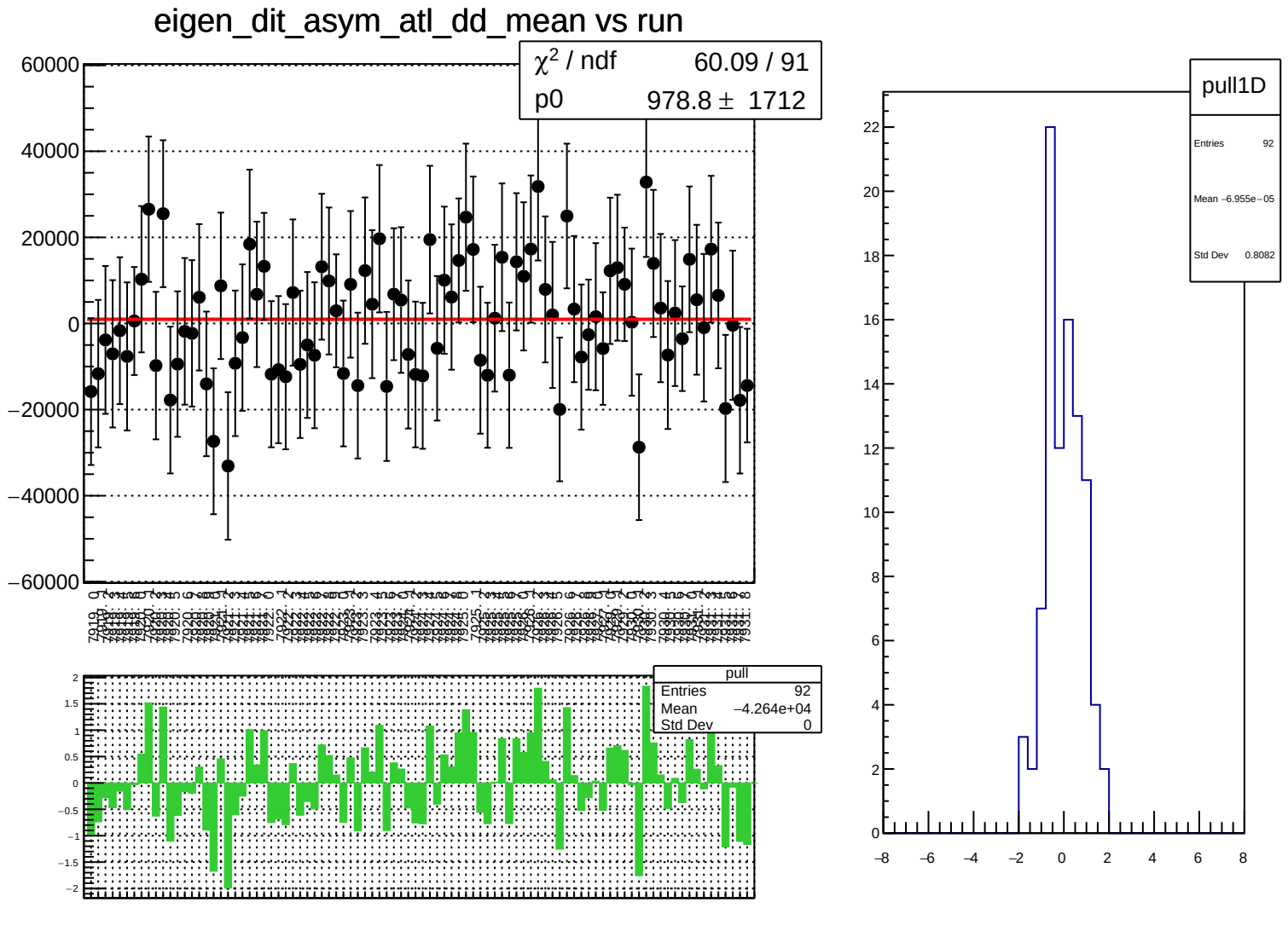

pull1D
Entries 92
Mean −6.955e−05
Std Dev 0.8082

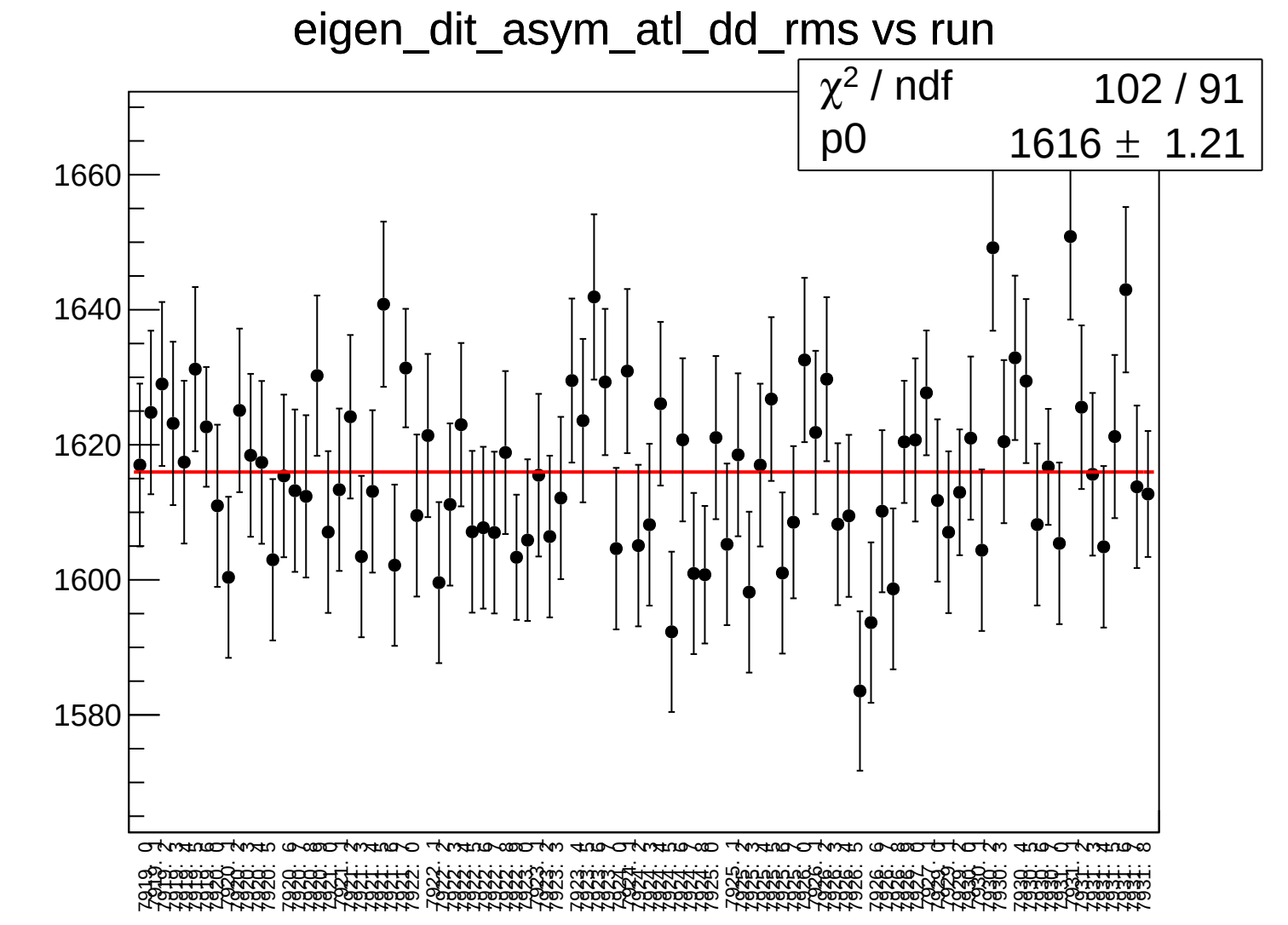

dit_asym_atl_dd_rms vs run
χ² / ndf 102 / 91
p0 1616 ± 1.21
1660
1640
1620
1600
1580

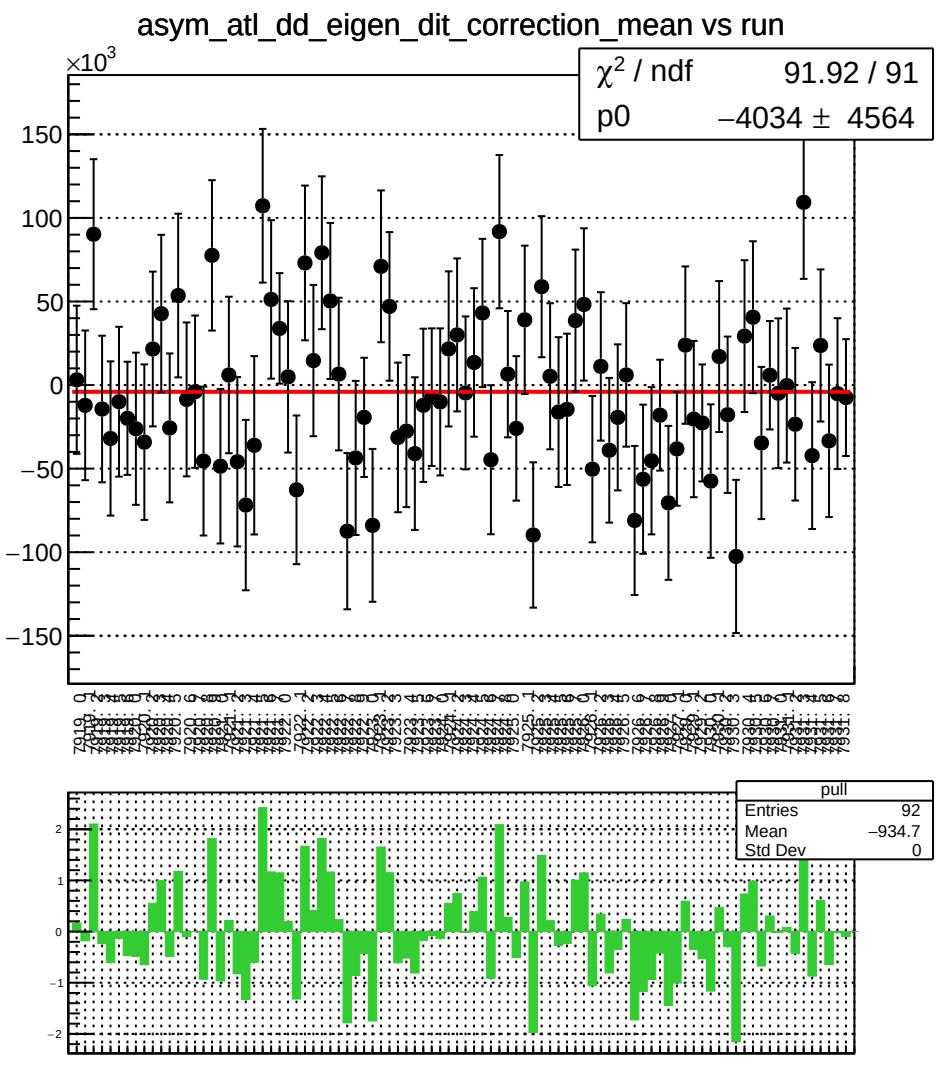

asym_atl_dd_dit_correction_mean vs run
χ² / ndf 91.92 / 91
p0 −4034 ± 4564
×10³
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean −934.7
Std Dev 0
2
1
0
−1
−2

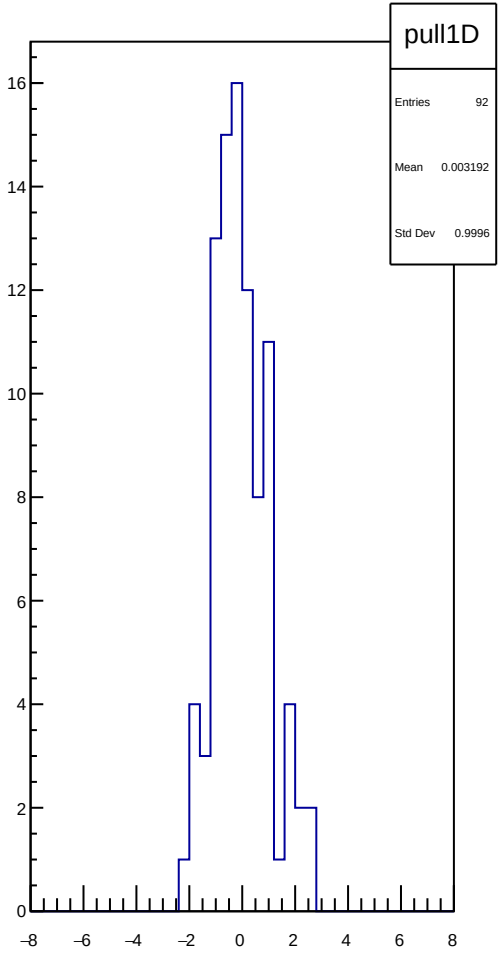

pull1D
Entries 92
Mean 0.003192
Std Dev 0.9996
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

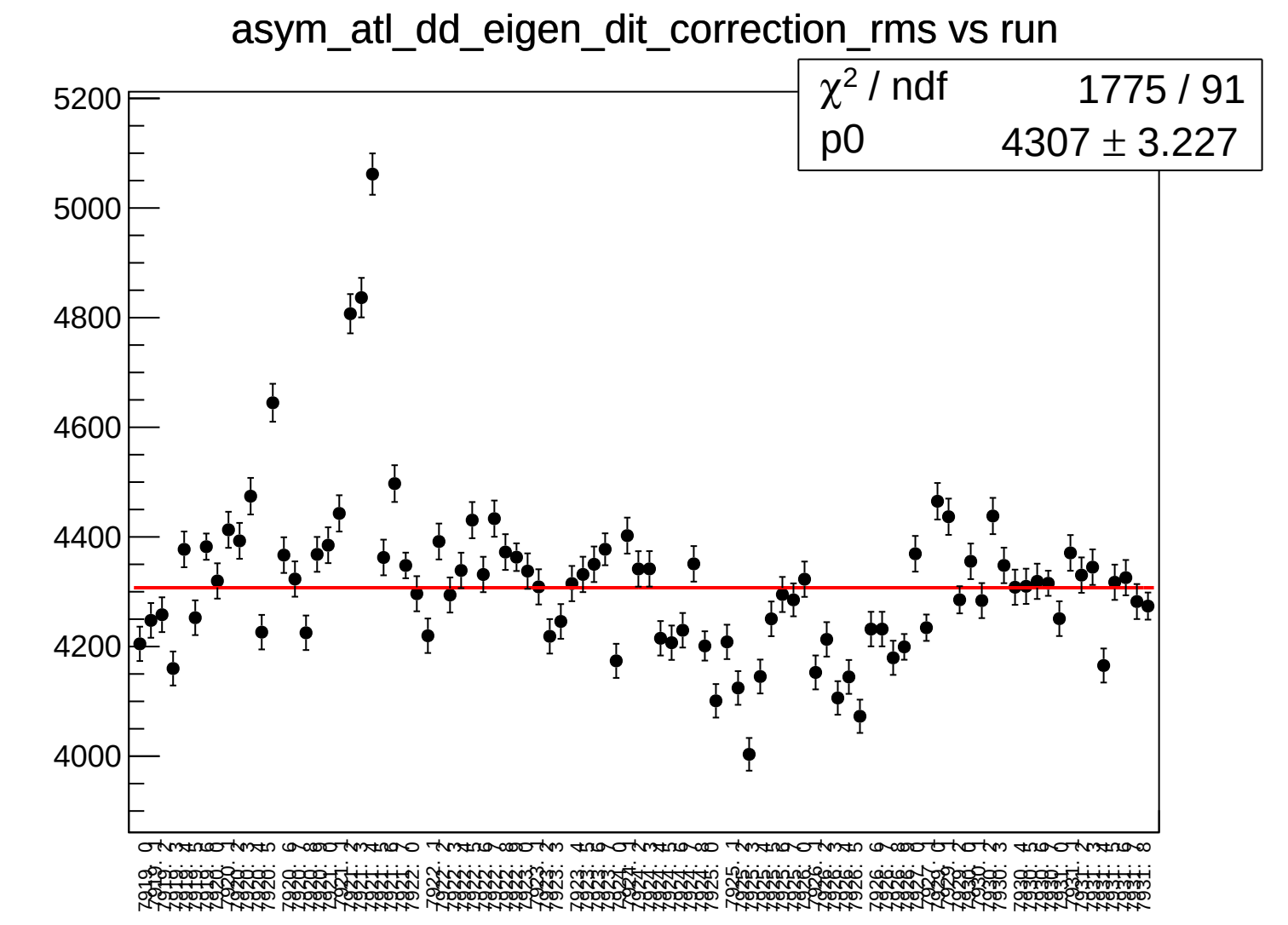

asym_atl_dd_dit_correction_rms vs run
χ² / ndf 1775 / 91
p0 4307 ± 3.227
5200
5000
4800
4600
4400
4200
4000

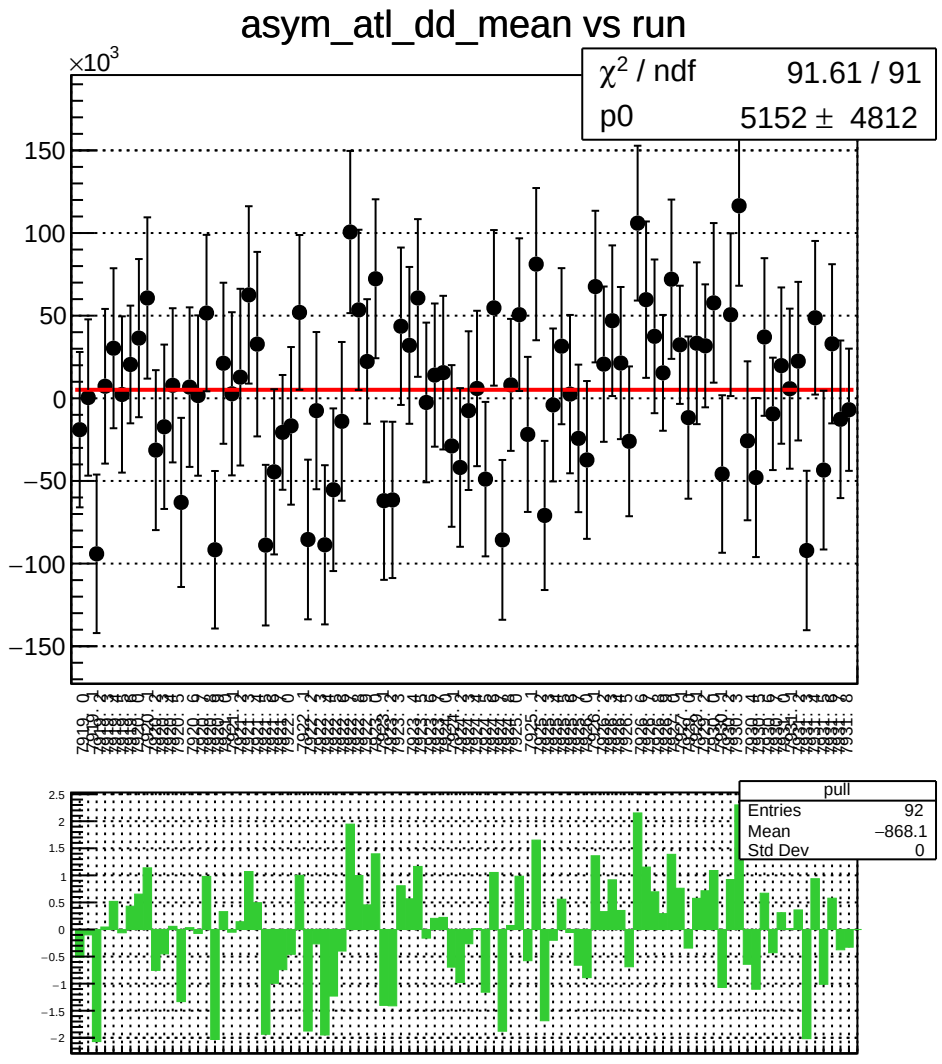

eigen_dit_asym_atl_dd_mean vs run
χ² / ndf 60.09 / 91
p0 978.8 ± 1712
pull
Entries 92
Mean −4.264e+04
Std Dev 0
pull1D
Entries 92
Mean −6.955e−05
Std Dev 0.8082

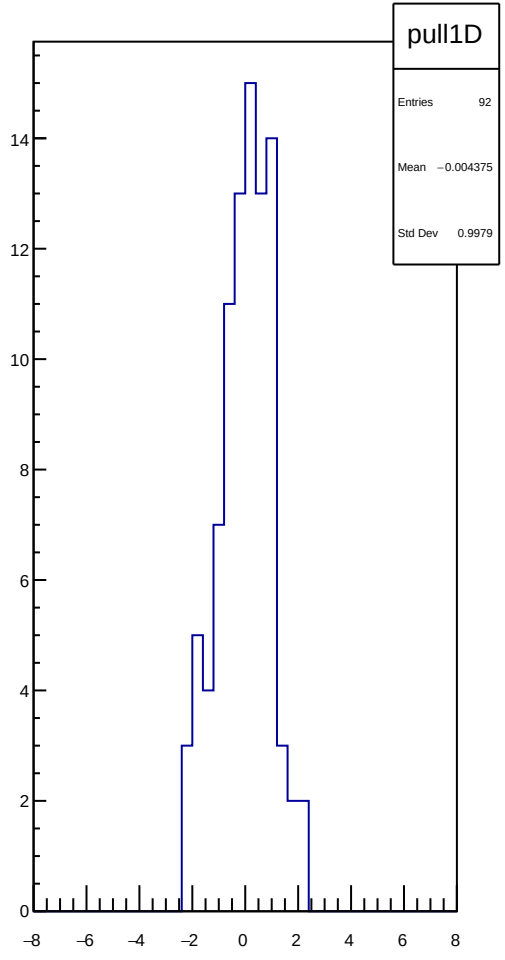

eigen_dit_asym_atl_dd_rms vs run
χ² / ndf 102 / 91
p0 1616 ± 1.21
1660
1640
1620
1600
1580

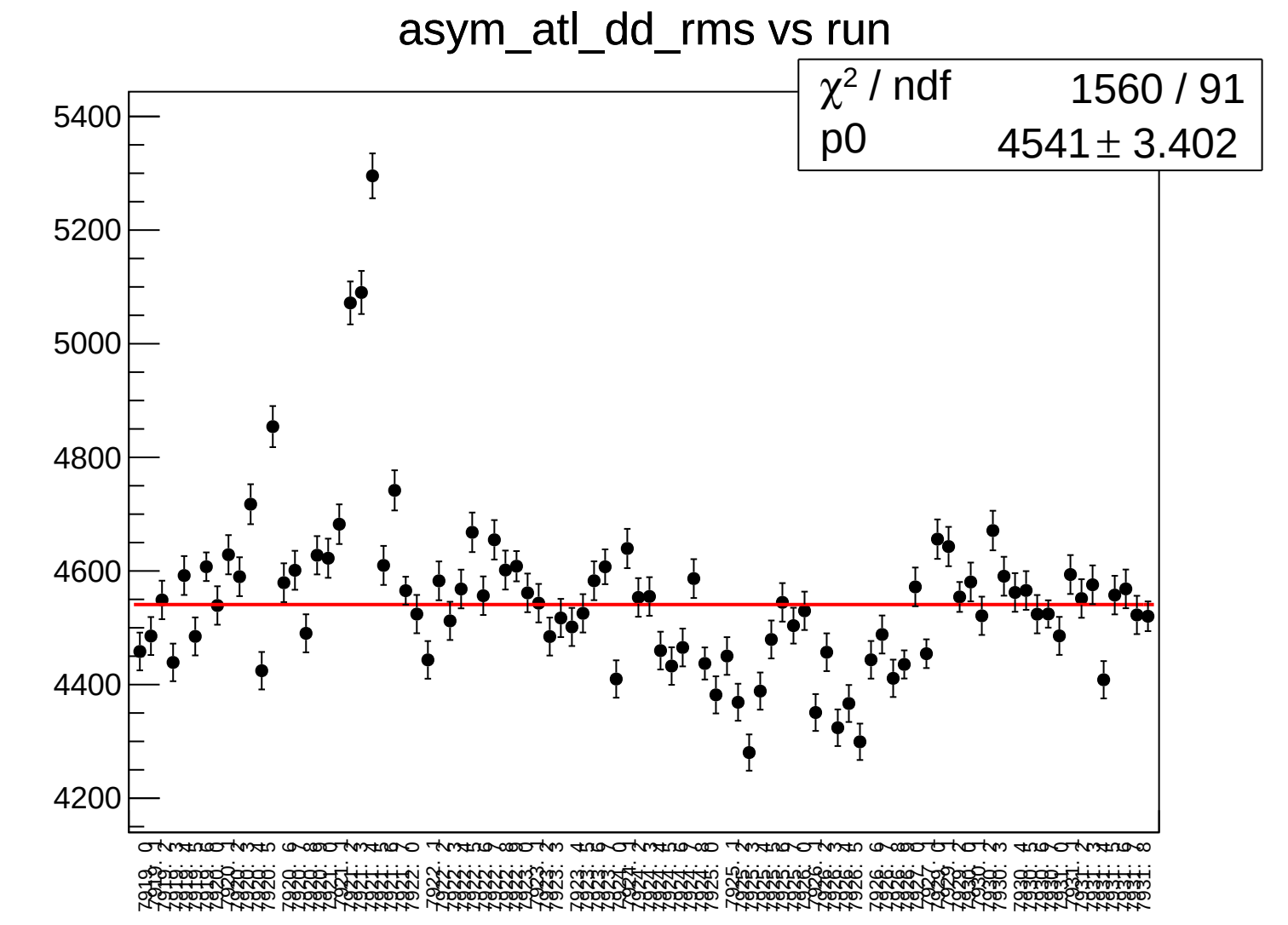

asym_atl_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 91.92 / 91
p0 −4034 ± 4564
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean −934.7
Std Dev 0
2
1
0
−1
−2

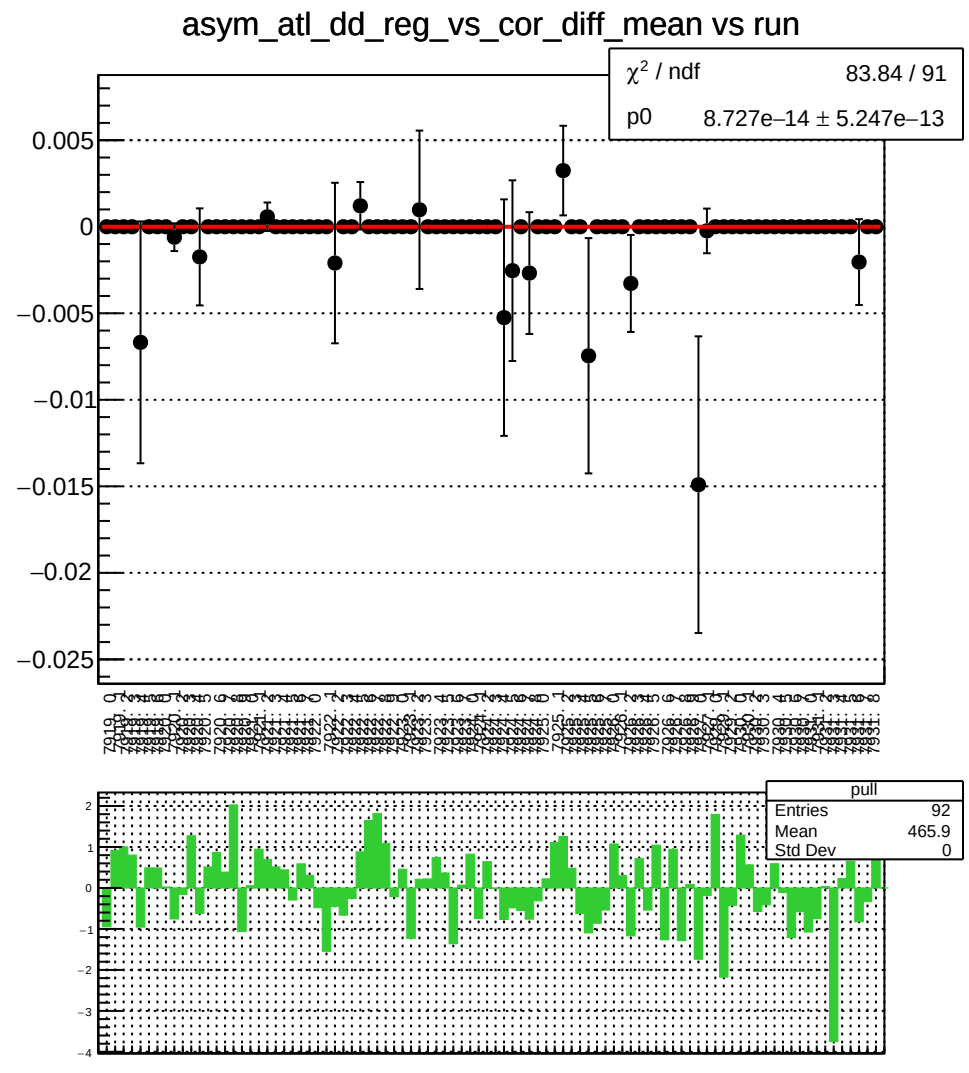

pull1D
Entries 92
Mean 0.003192
Std Dev 0.9996
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

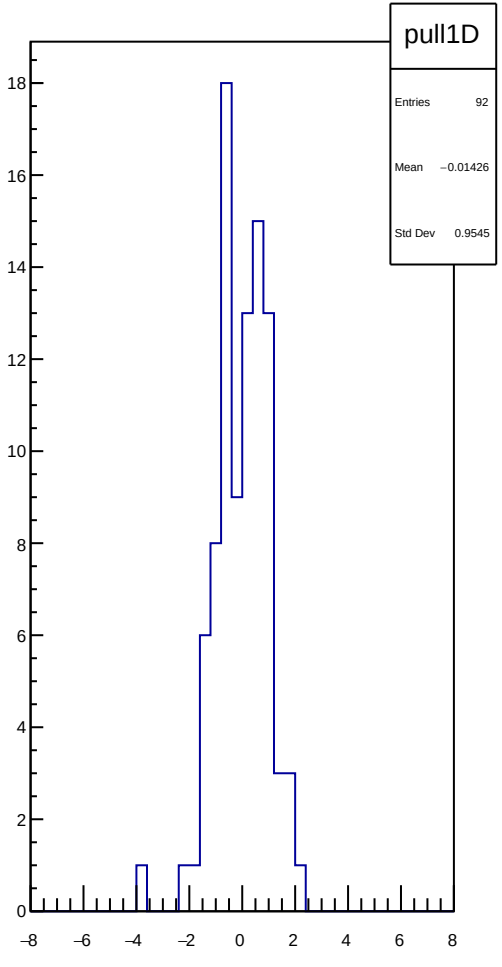

asym_atl_dd_eigen_dit_correction_rms vs run
χ² / ndf 1775 / 91
p0 4307 ± 3.227
5200
5000
4800
4600
4400
4200
4000

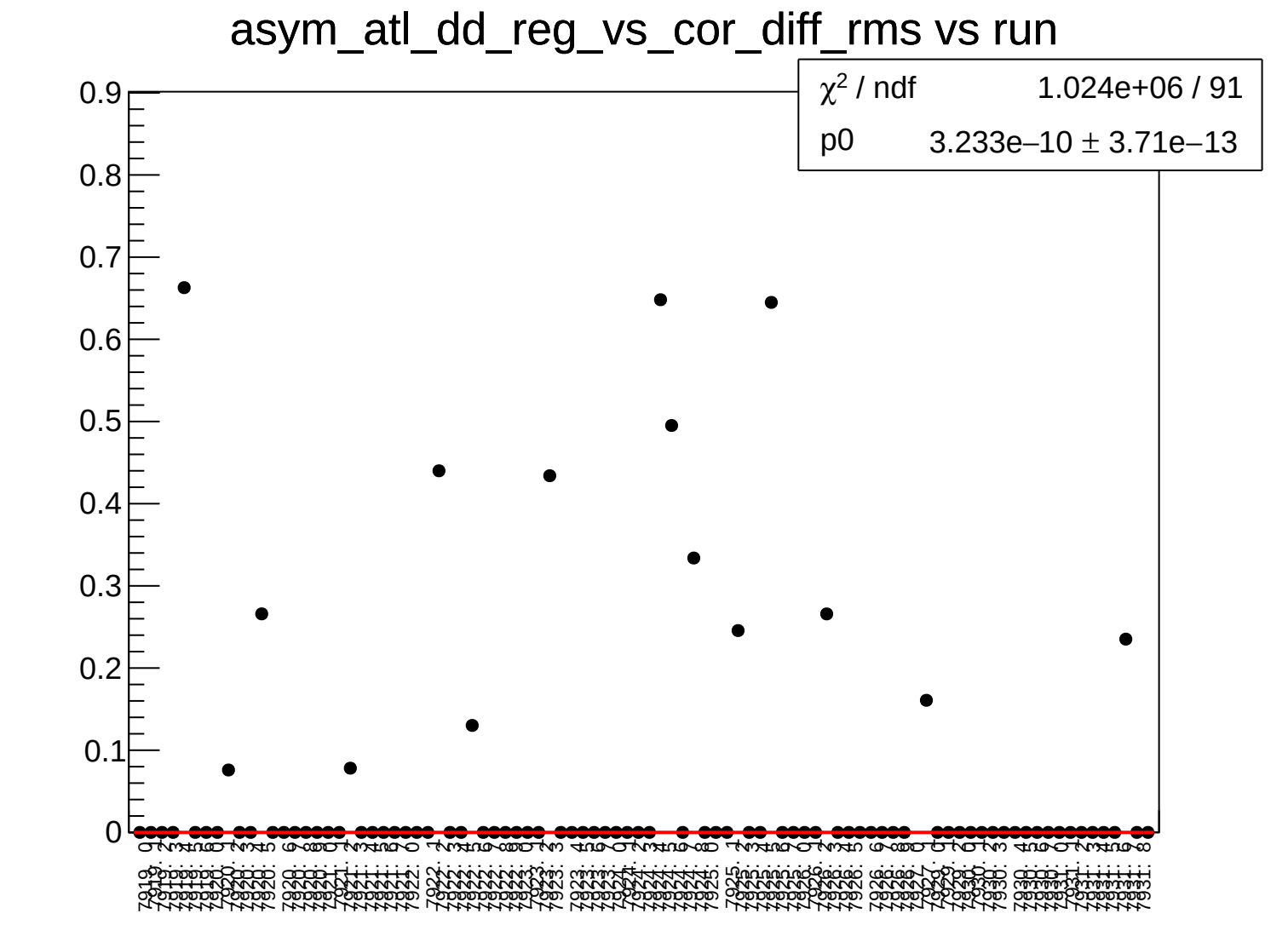

asym_atl_dd_mean vs run
×10^3
χ^2 / ndf 91.61 / 91
p0 5152 ± 4812
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean −868.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

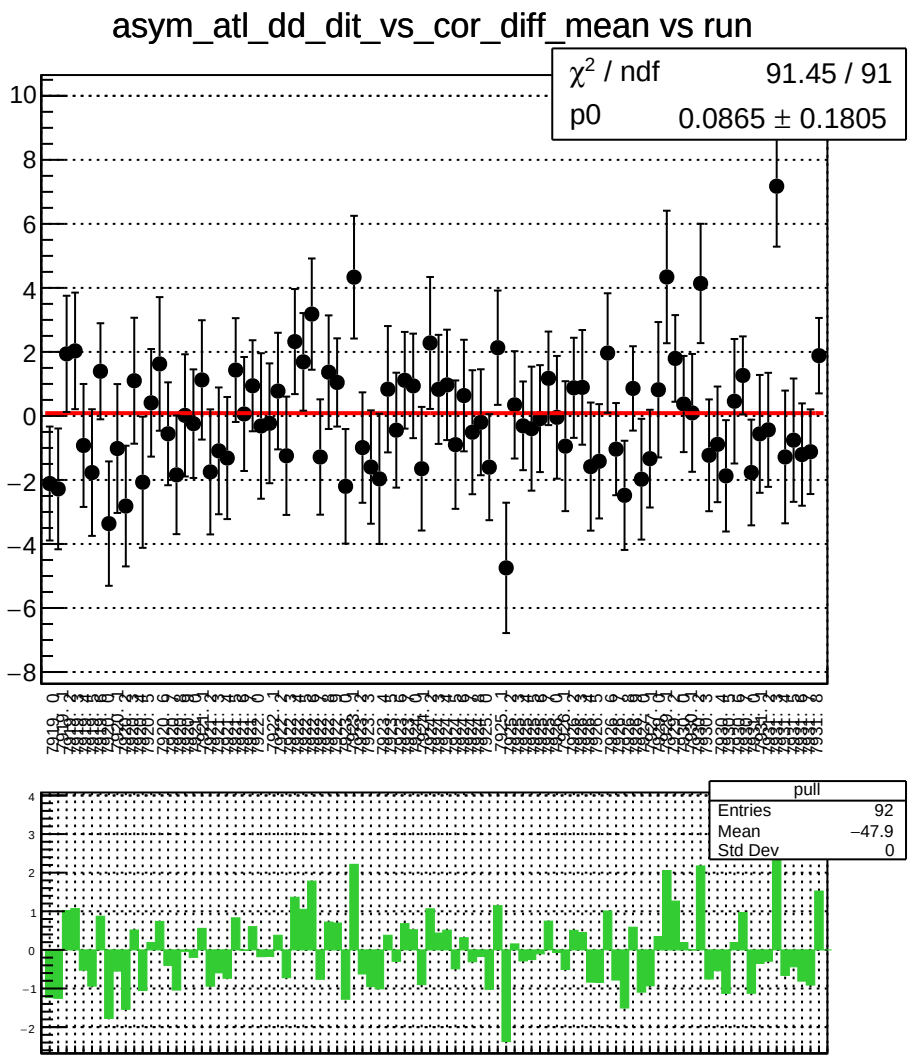

pull1D
Entries 92
Mean −0.004375
Std Dev 0.9979
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

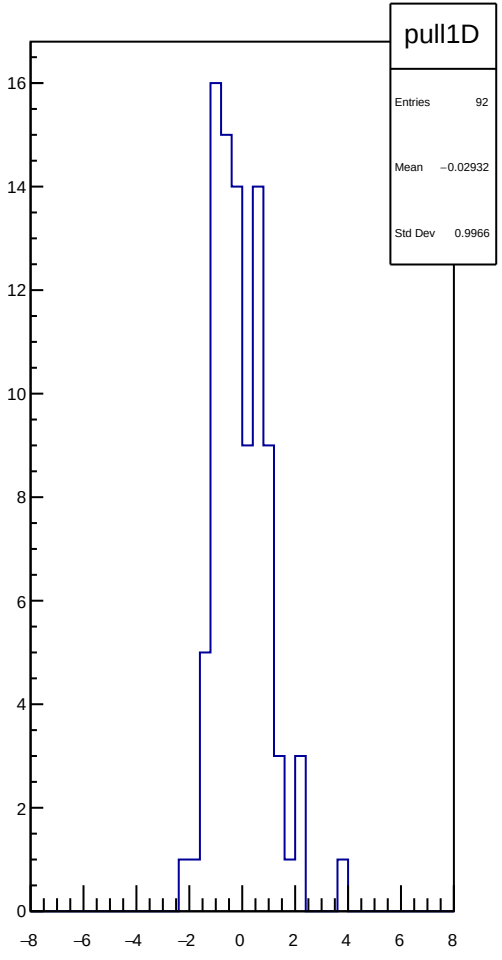

asym_atl_dd_rms vs run
χ^2 / ndf 1560 / 91
p0 4541 ± 3.402
5400
5200
5000
4800
4600
4400
4200

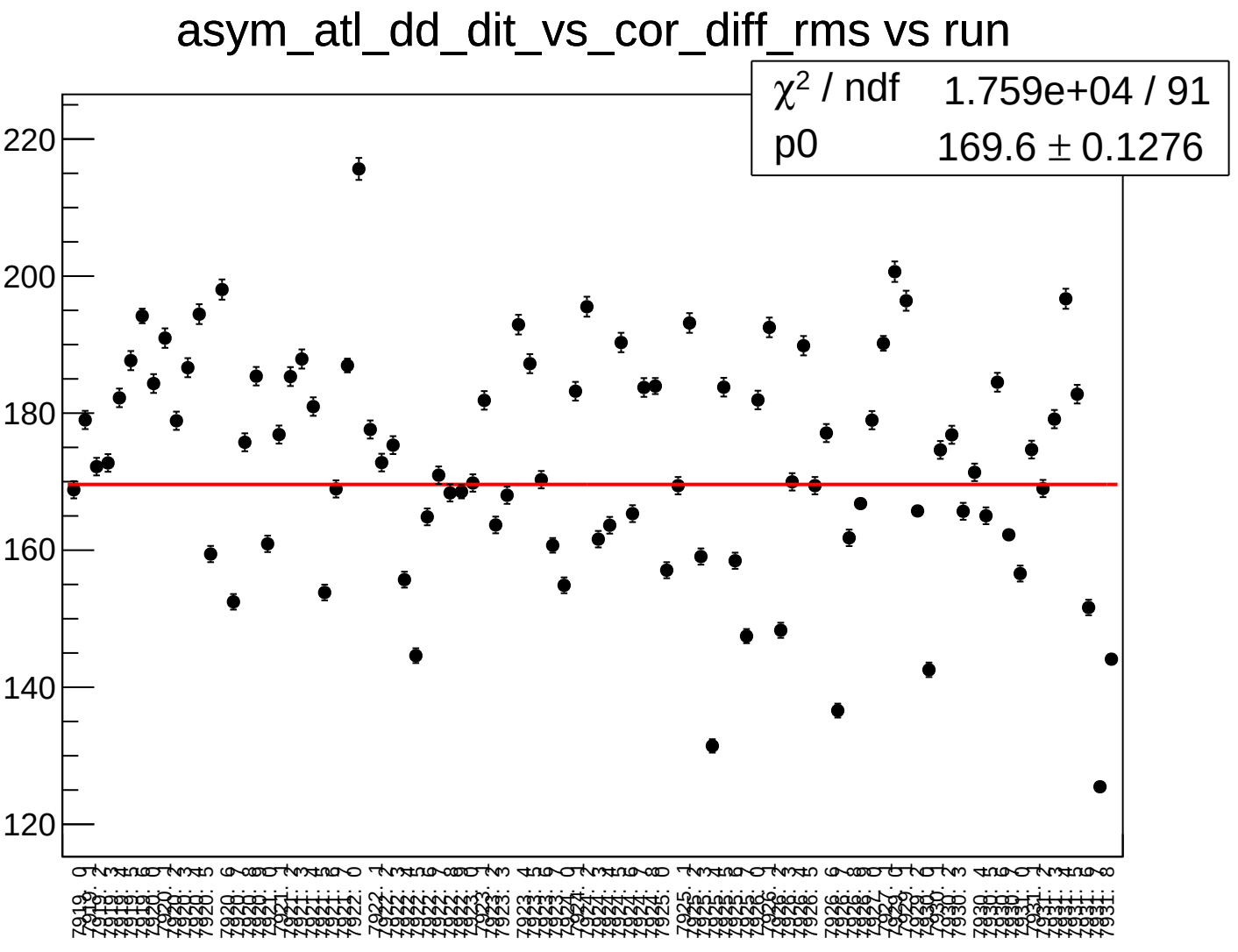

asym_atl_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 83.84 / 91
p0 8.727e−14 ± 5.247e−13
0.005
0
−0.005
−0.01
−0.015
−0.02
−0.025
pull
Entries 92
Mean 465.9
Std Dev 0
2
1
0
−1
−2
−3
−4

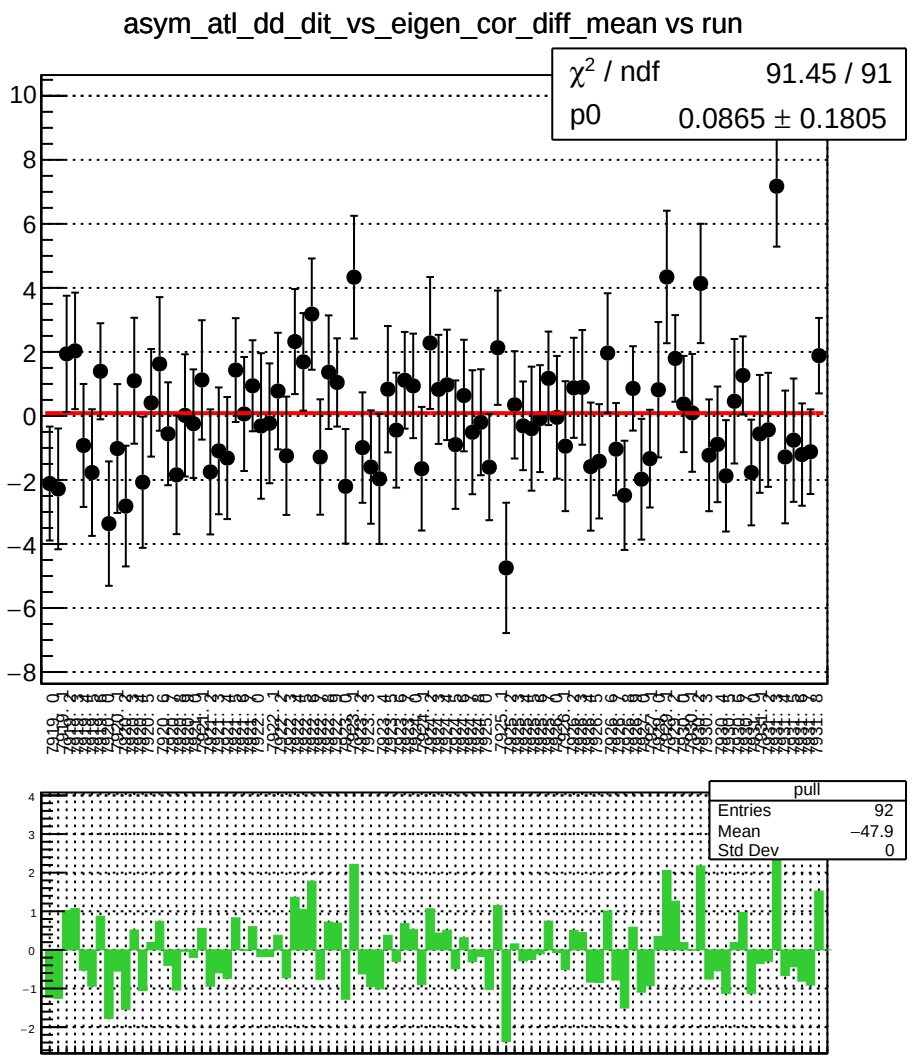

pull1D
Entries 92
Mean −0.01426
Std Dev 0.9545
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

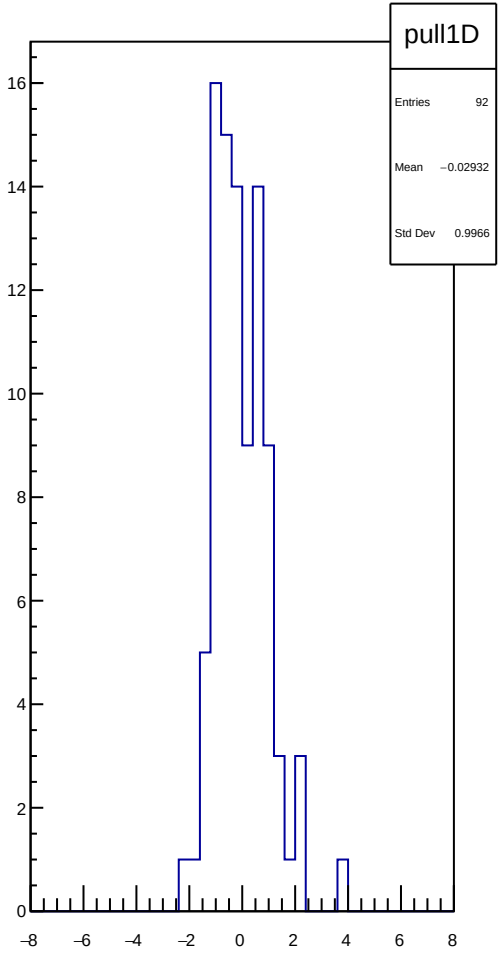

asym_atl_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.024e+06 / 91
p0 3.233e−10 ± 3.71e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

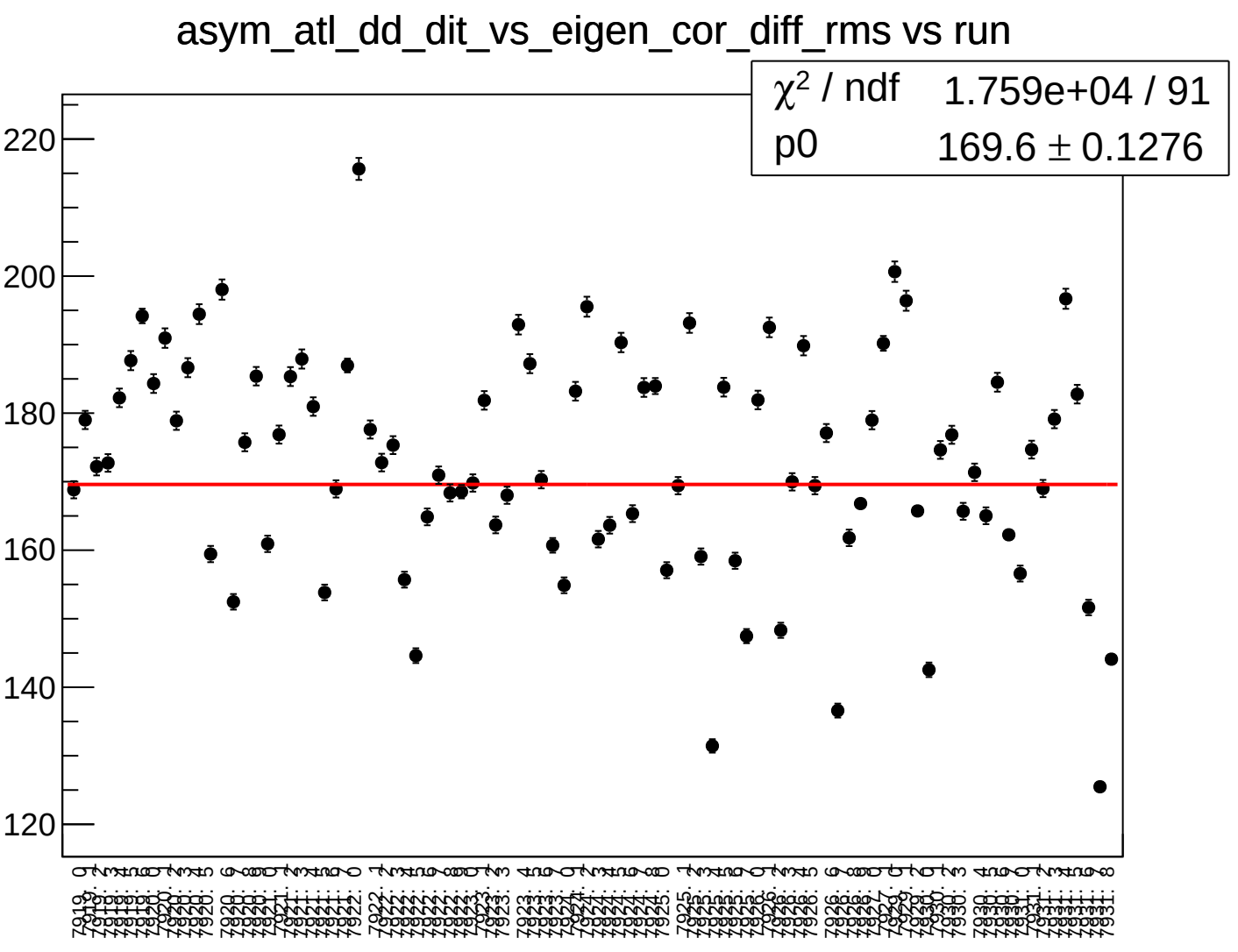

asym_atl_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 91.45 / 91
p0 0.0865 ± 0.1805
pull
Entries 92
Mean −47.9
Std Dev 0

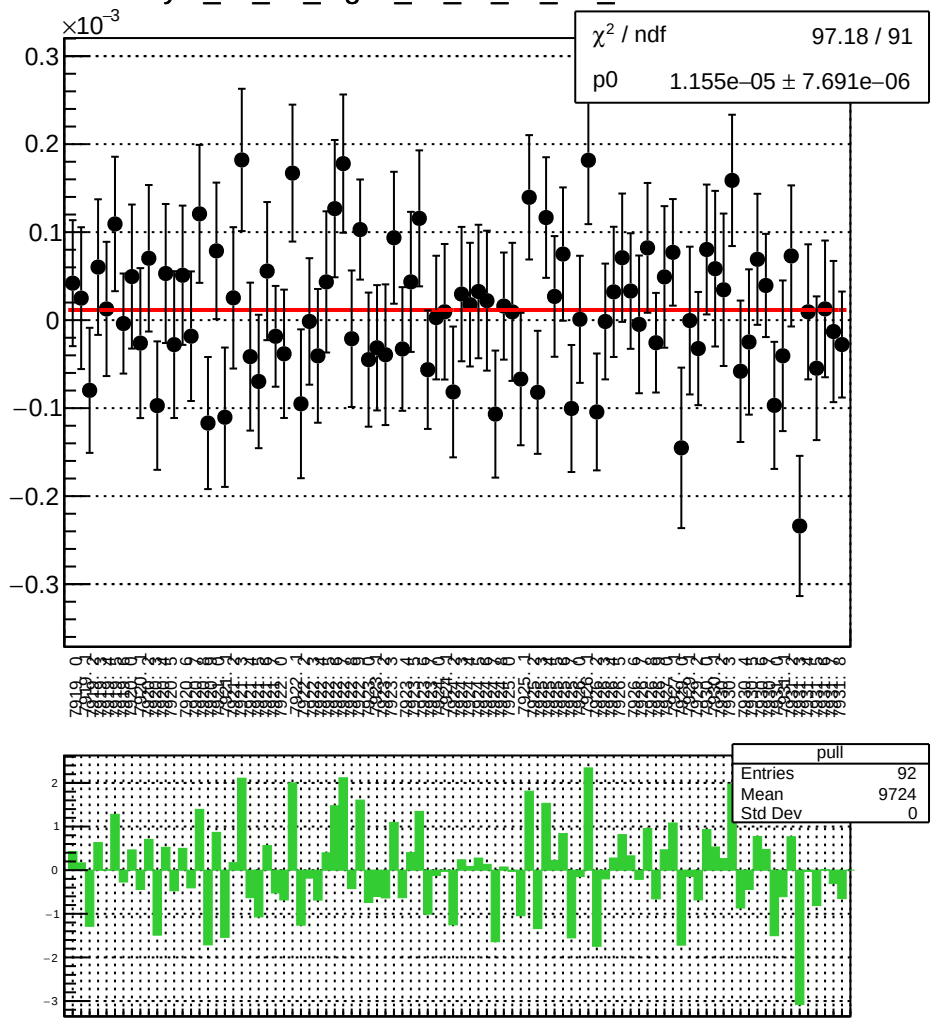

pull1D
Entries 92
Mean −0.02932
Std Dev 0.9966

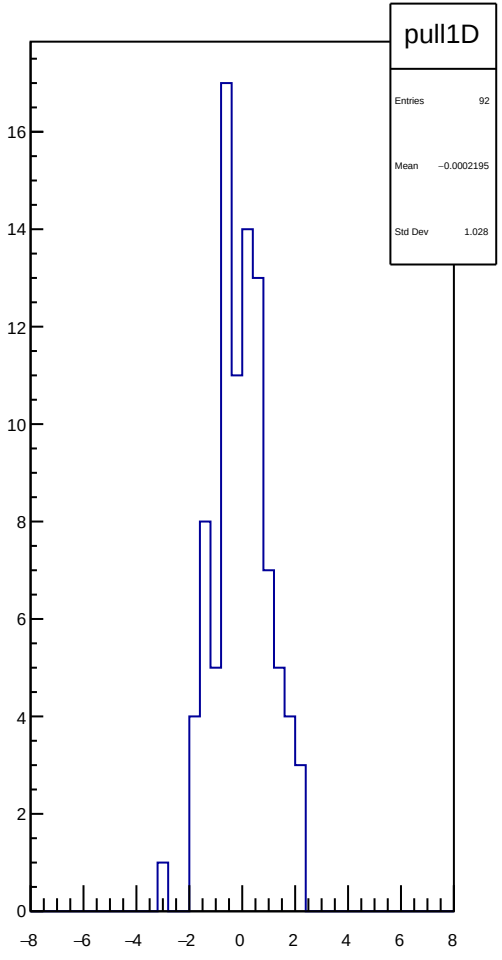

asym_atl_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.759e+04 / 91
p0 169.6 ± 0.1276
220
200
180
160
140
120

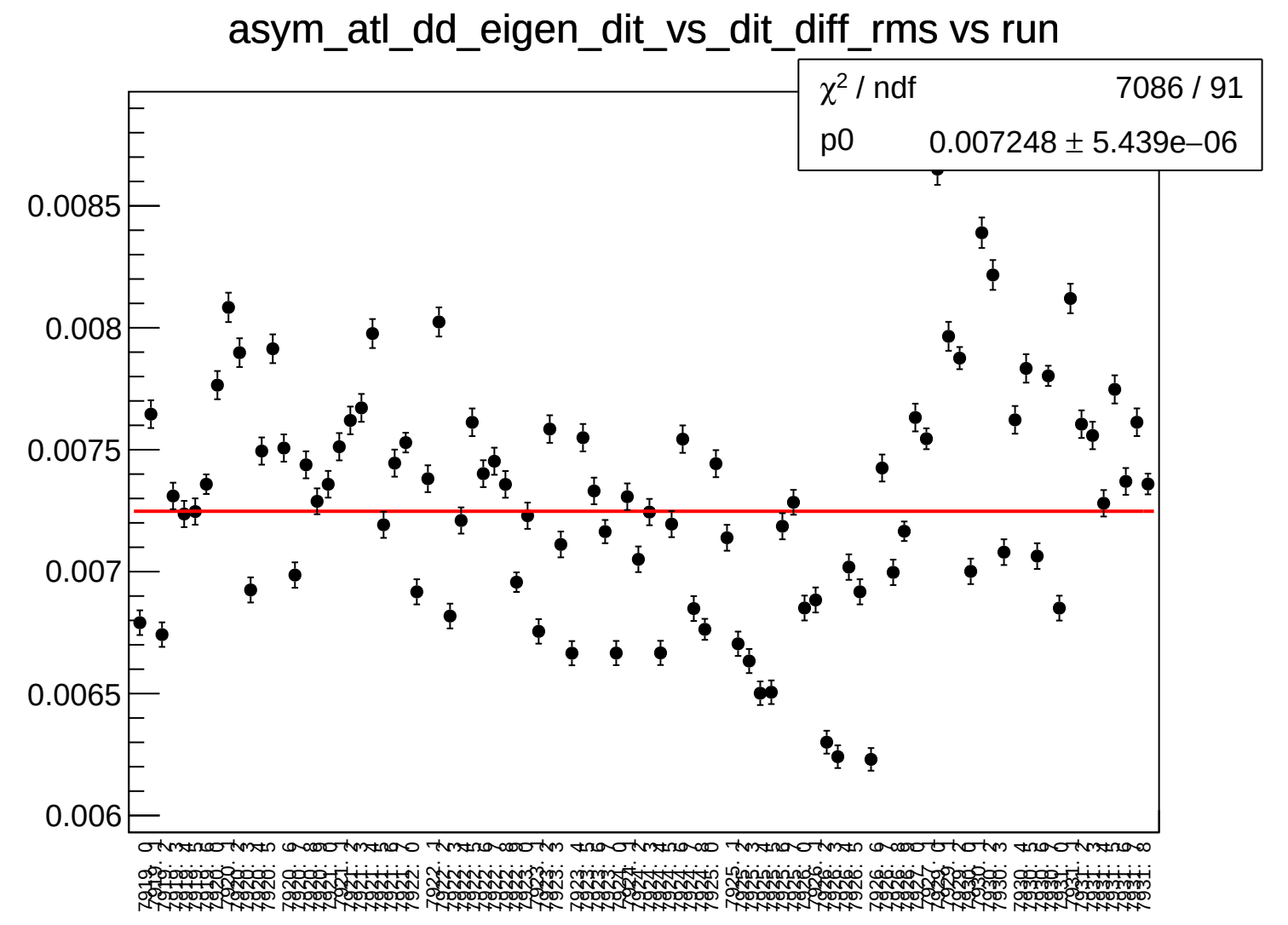

asym_atl_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.45 / 91
p0 0.0865 ± 0.1805
pull
Entries 92
Mean −47.9
Std Dev 0

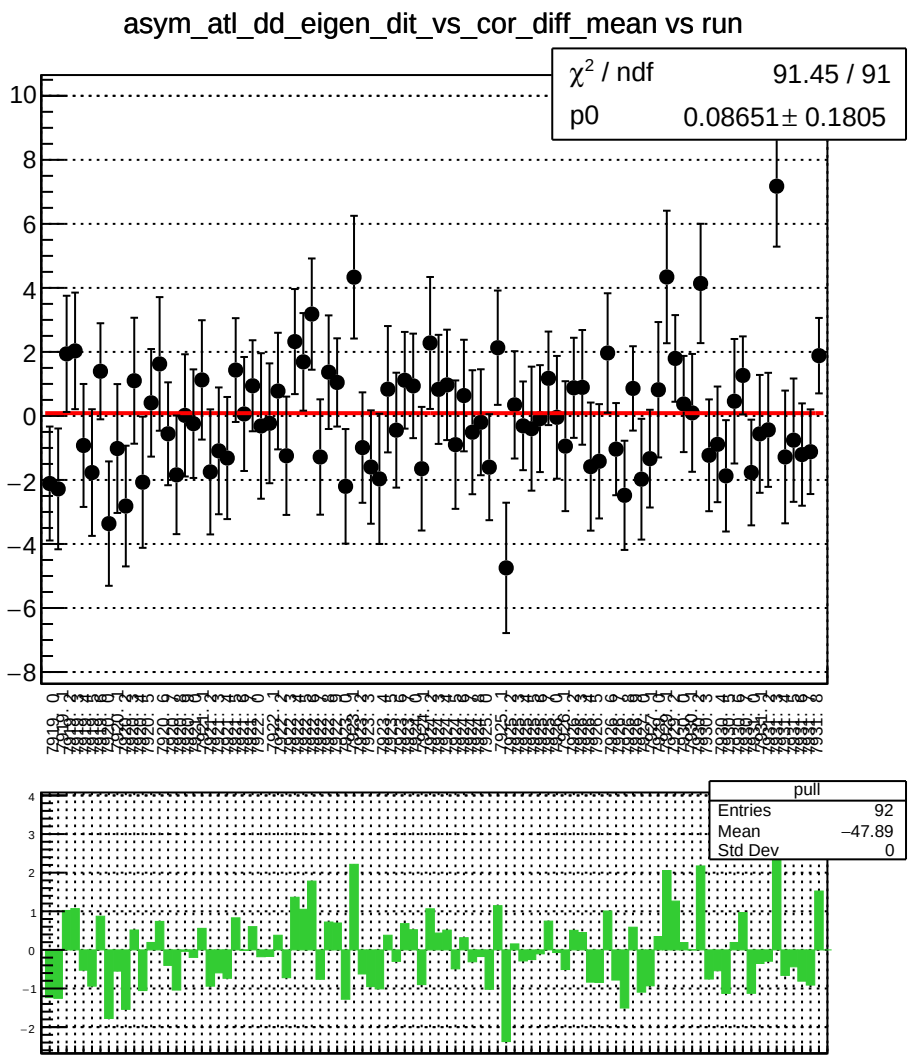

pull1D
Entries 92
Mean −0.02932
Std Dev 0.9966

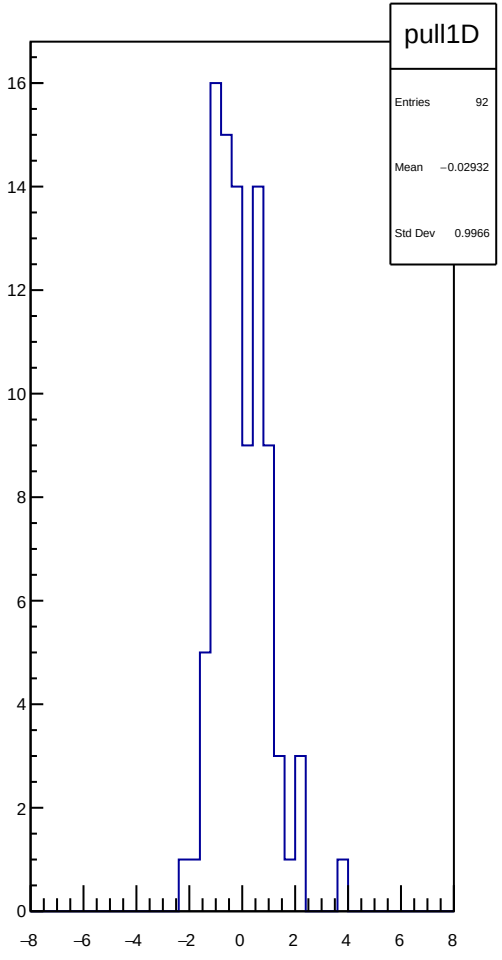

asym_atl_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.759e+04 / 91
p0 169.6 ± 0.1276
220
200
180
160
140
120

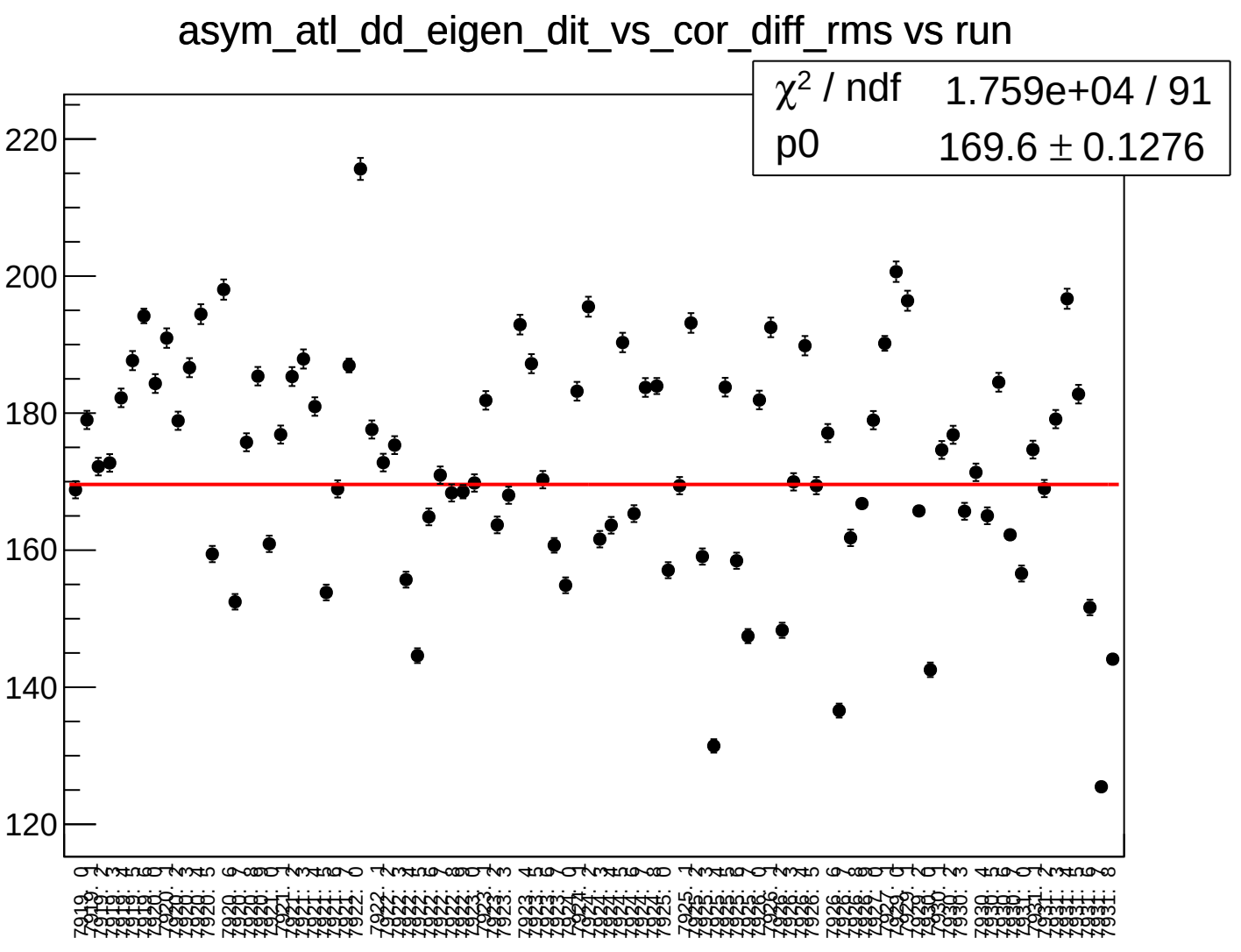

asym_atl_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.18 / 91
p0 1.155e−05 ± 7.691e−06
pull
Entries 92
Mean 9724
Std Dev 0

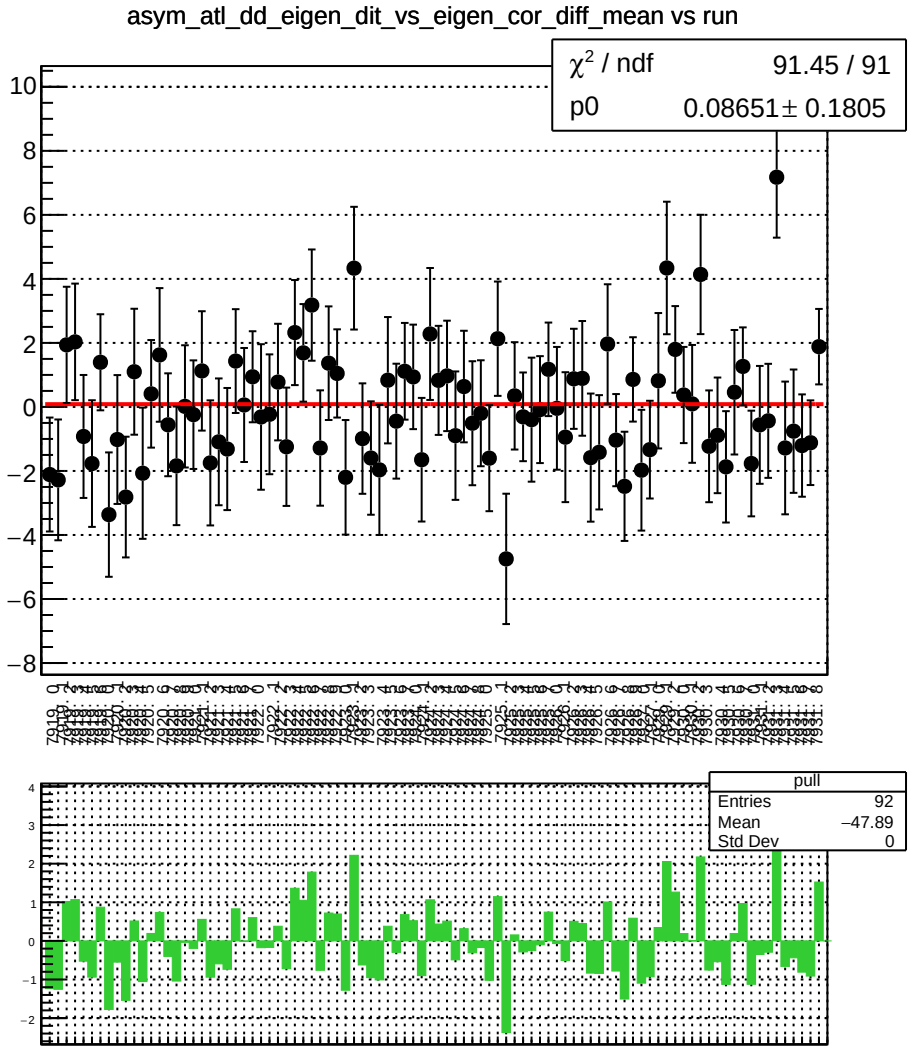

pull1D
Entries 92
Mean −0.0002195
Std Dev 1.028

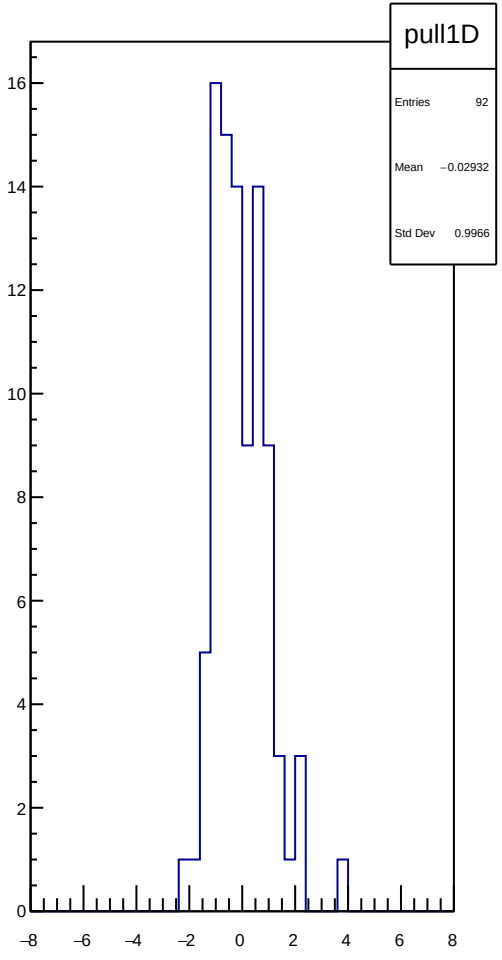

asym_atl_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7086 / 91
p0 0.007248 ± 5.439e−06
0.0085
0.008
0.0075
0.007
0.0065
0.006

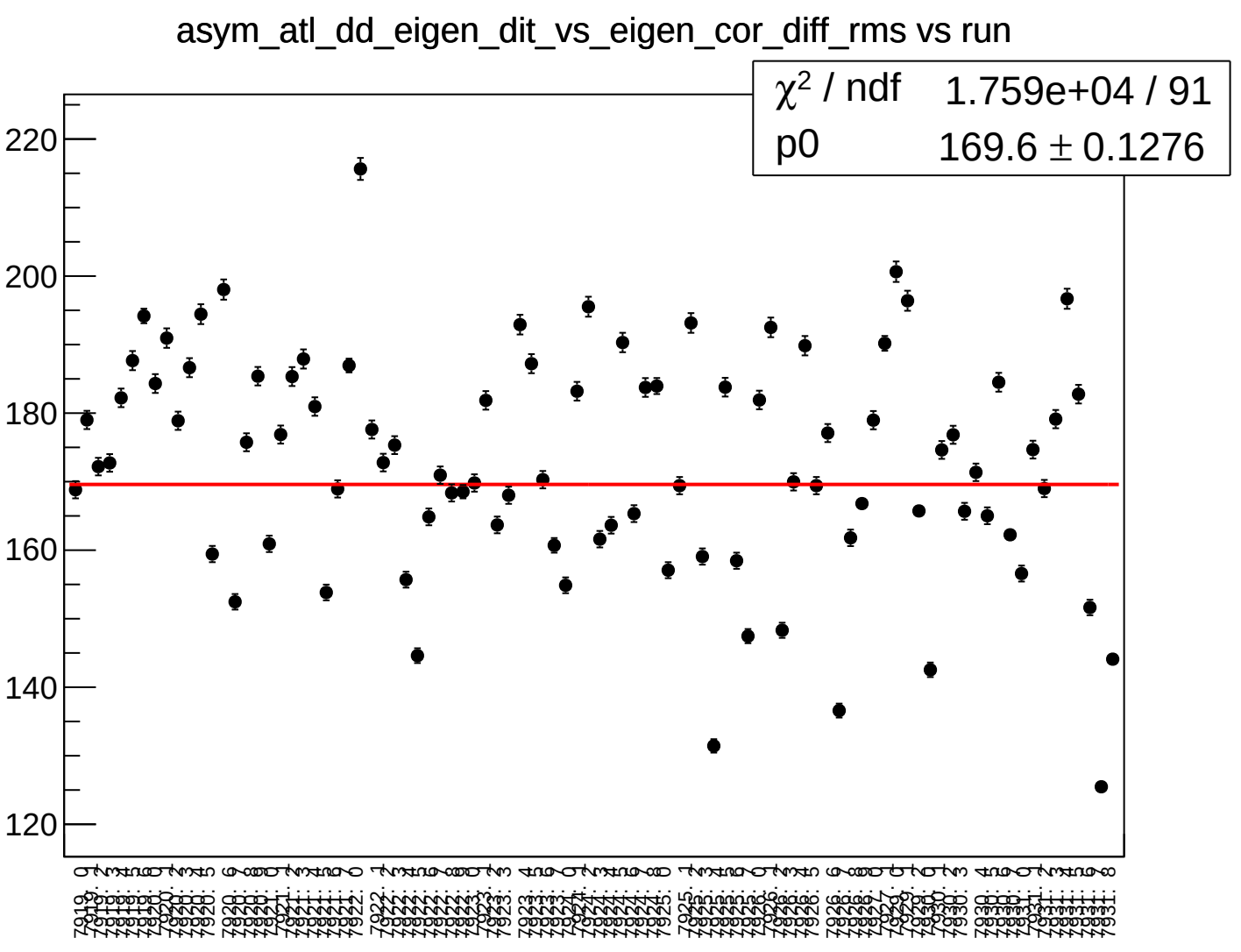

asym_atl_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.45 / 91
p0 0.08651 ± 0.1805
pull
Entries 92
Mean −47.89
Std Dev 0

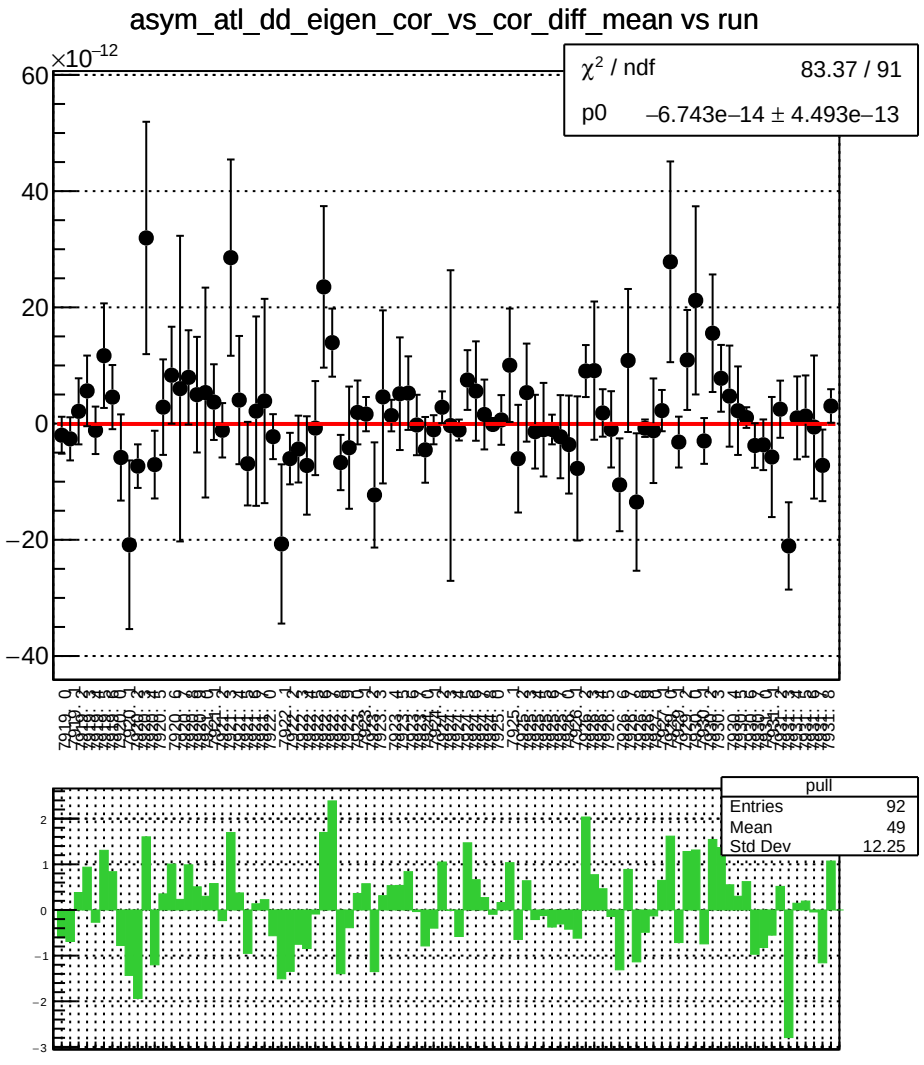

pull1D
Entries 92
Mean −0.02932
Std Dev 0.9966

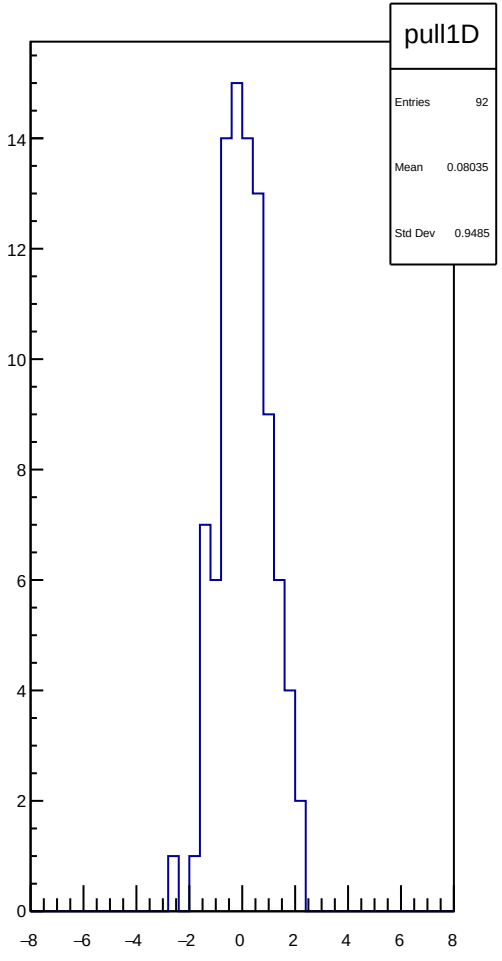

asym_atl_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.759e+04 / 91
p0 169.6 ± 0.1276
220
200
180
160
140
120

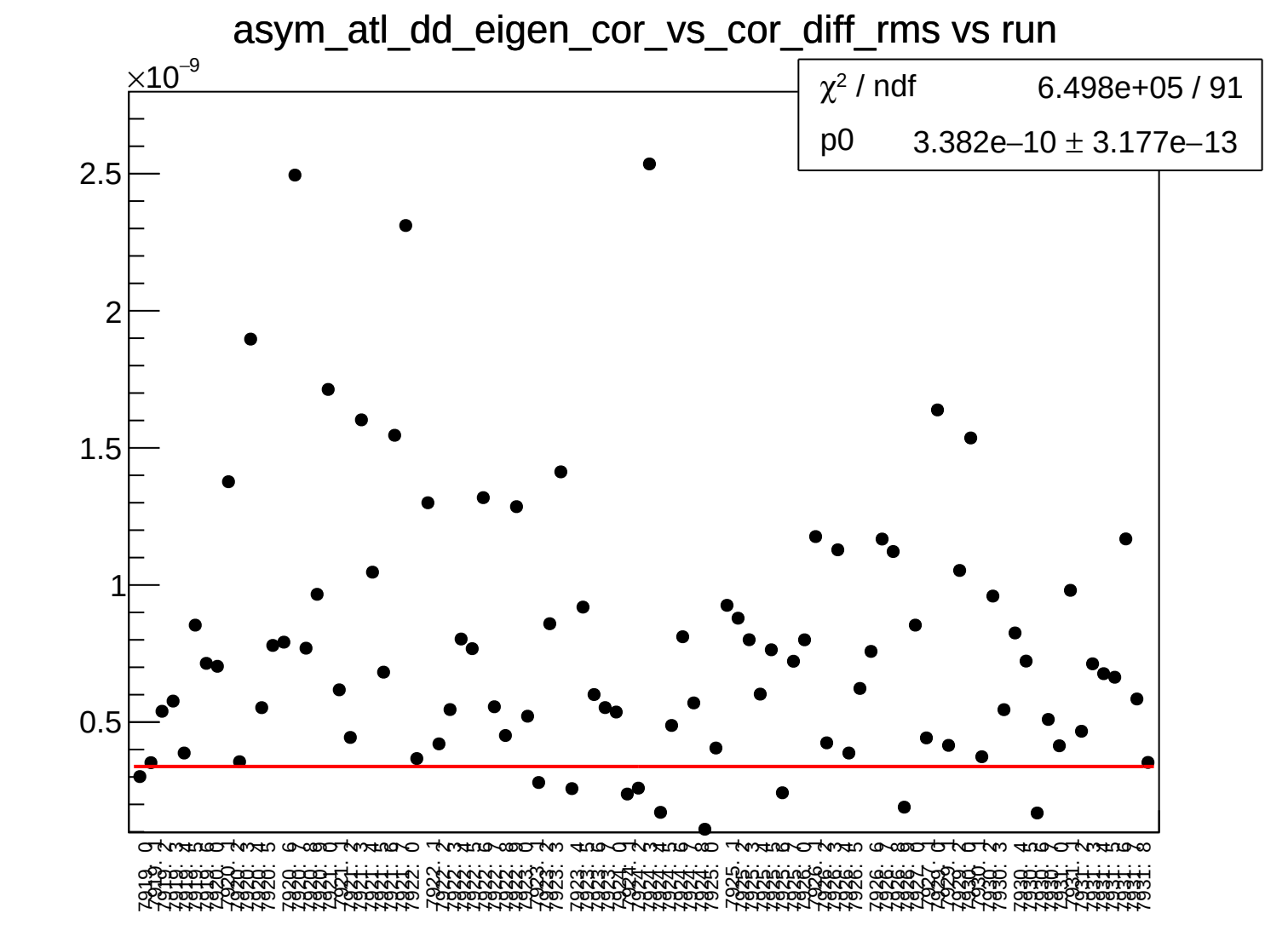

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.45 / 91
p0 0.08651 ± 0.1805
pull
Entries 92
Mean −47.89
Std Dev 0

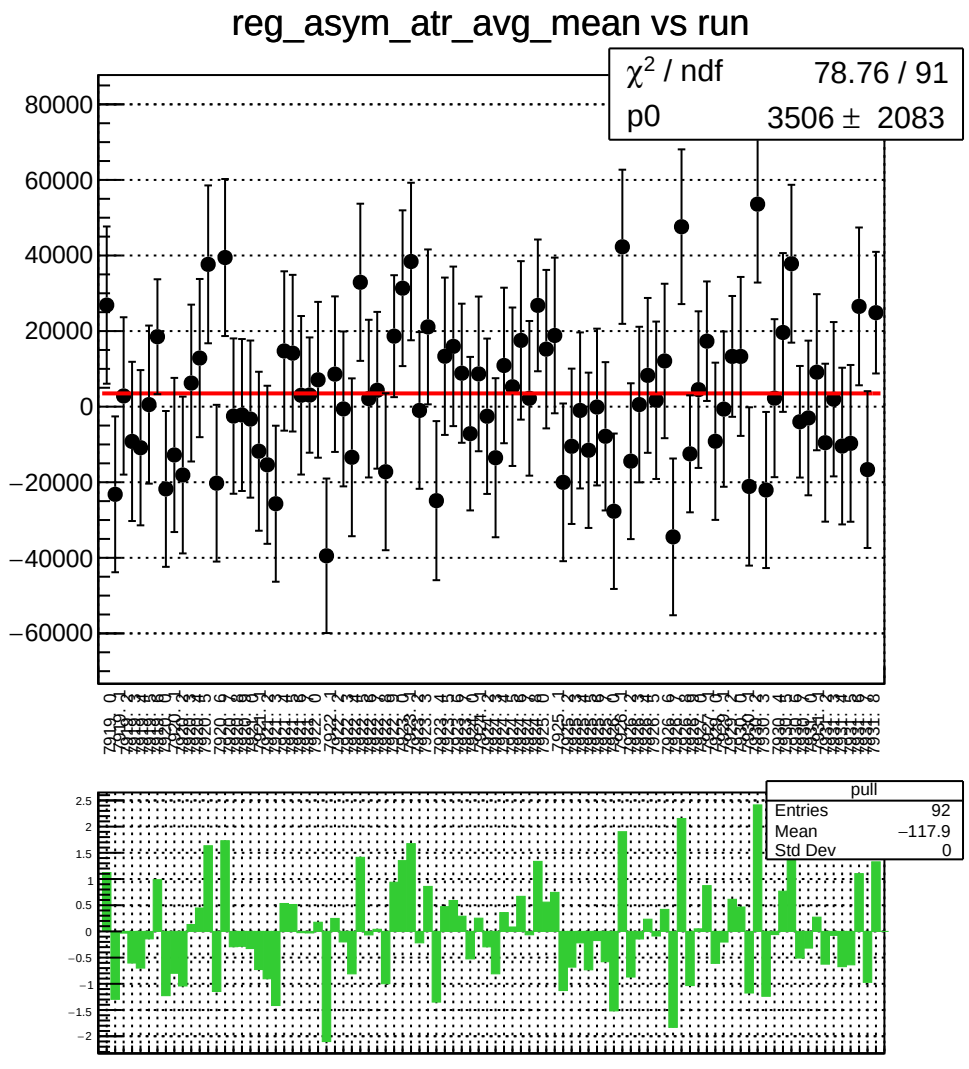

pull1D
Entries 92
Mean −0.02932
Std Dev 0.9966

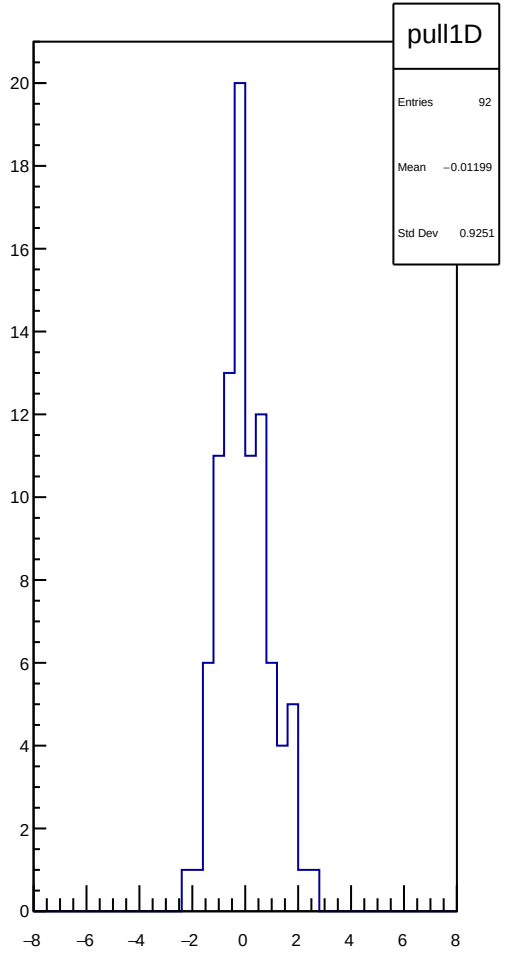

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.759e+04 / 91
p0 169.6 ± 0.1276
220
200
180
160
140
120

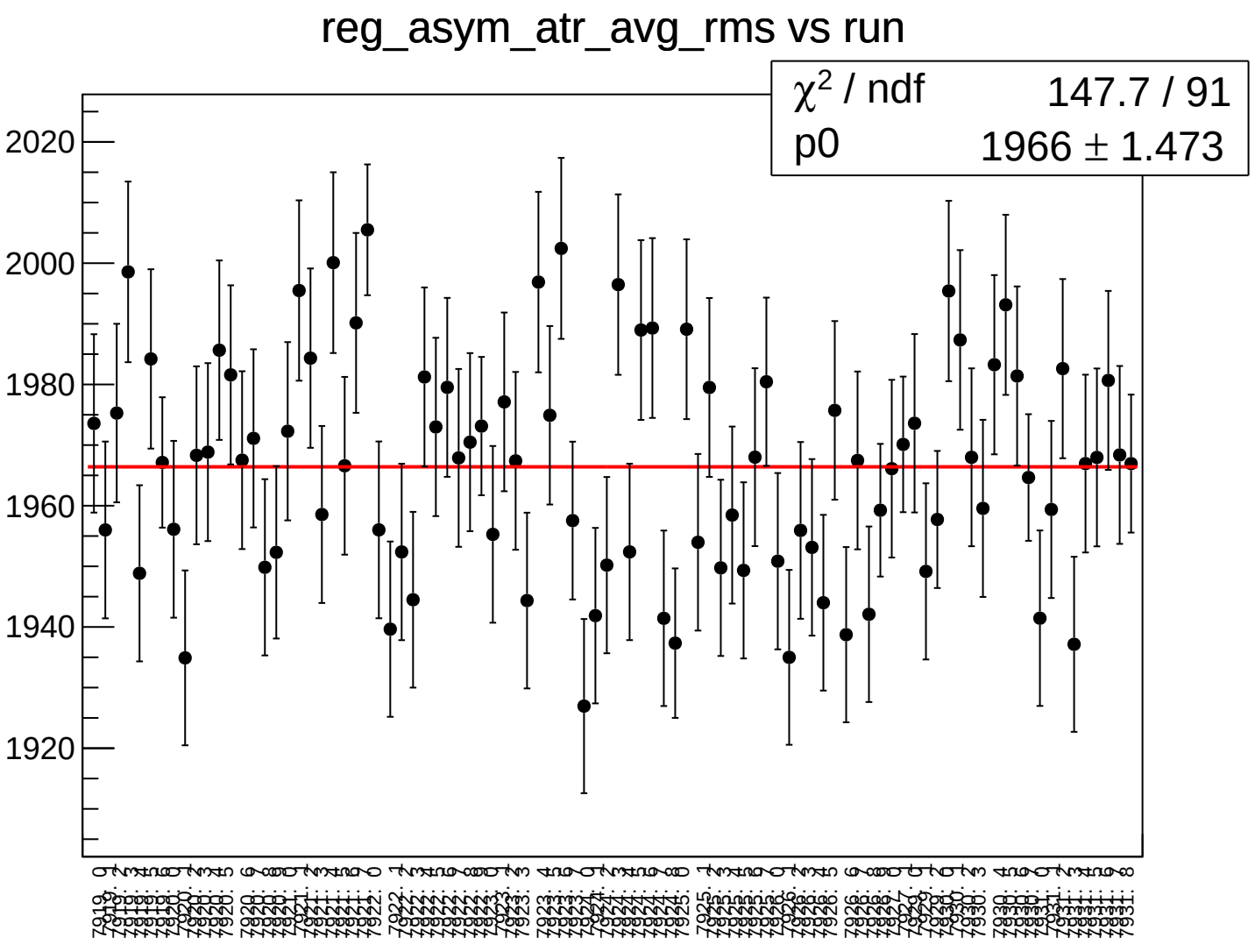

asym_atl_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.37 / 91
p0 −6.743e−14 ± 4.493e−13
pull
Entries 92
Mean 49
Std Dev 12.25

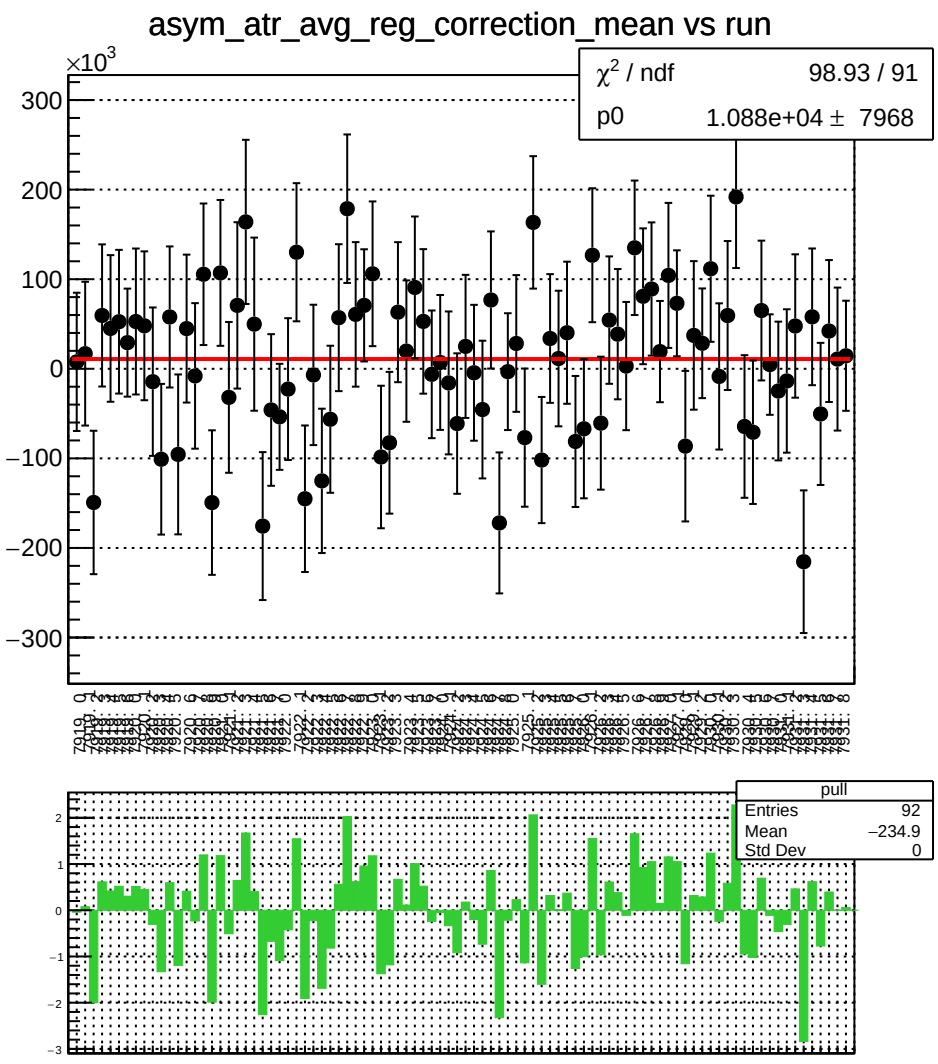

pull1D
Entries 92
Mean 0.08035
Std Dev 0.9485

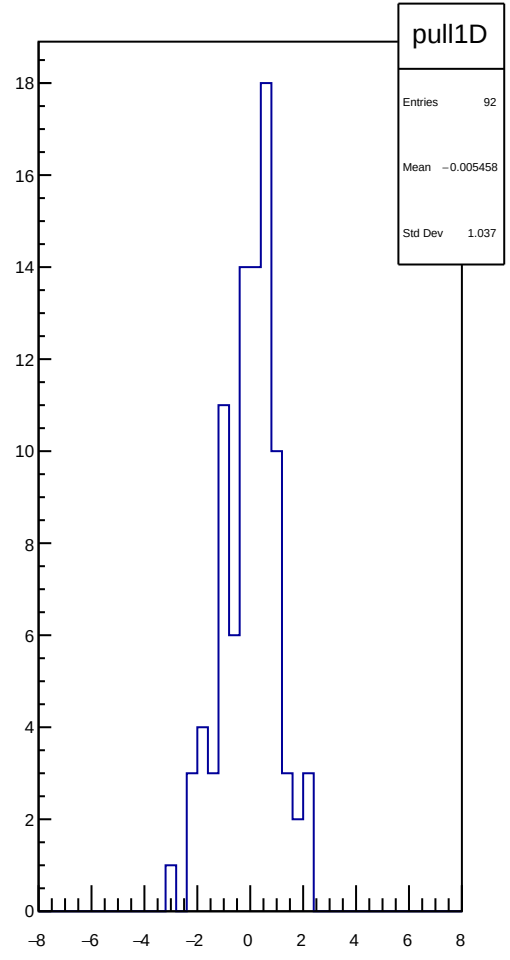

asym_atl_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.498e+05 / 91
p0 3.382e−10 ± 3.177e−13
2.5
2
1.5
1
0.5

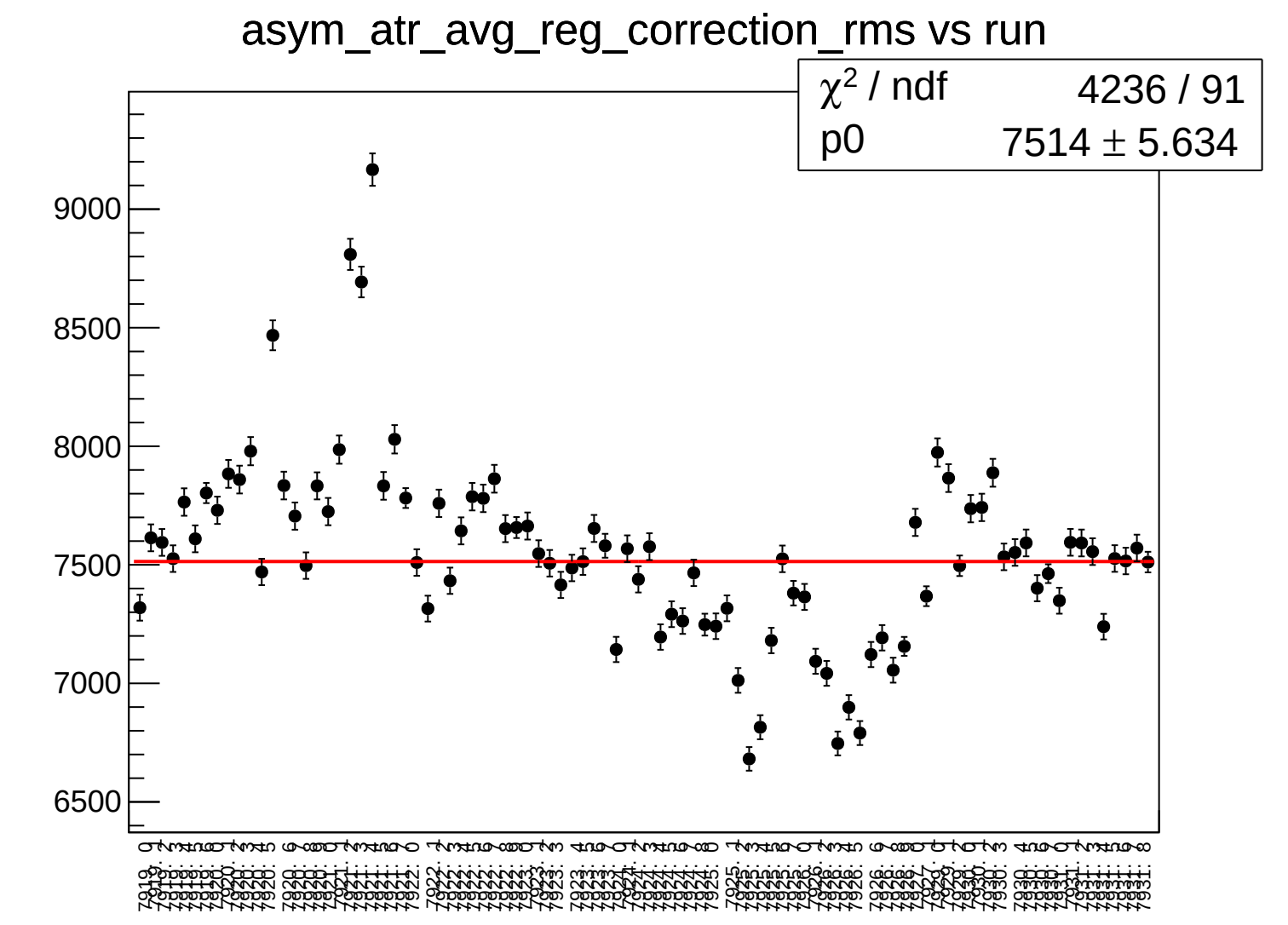

reg_asym_atr_avg_mean vs run
χ² / ndf 78.76 / 91
p0 3506 ± 2083
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −117.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

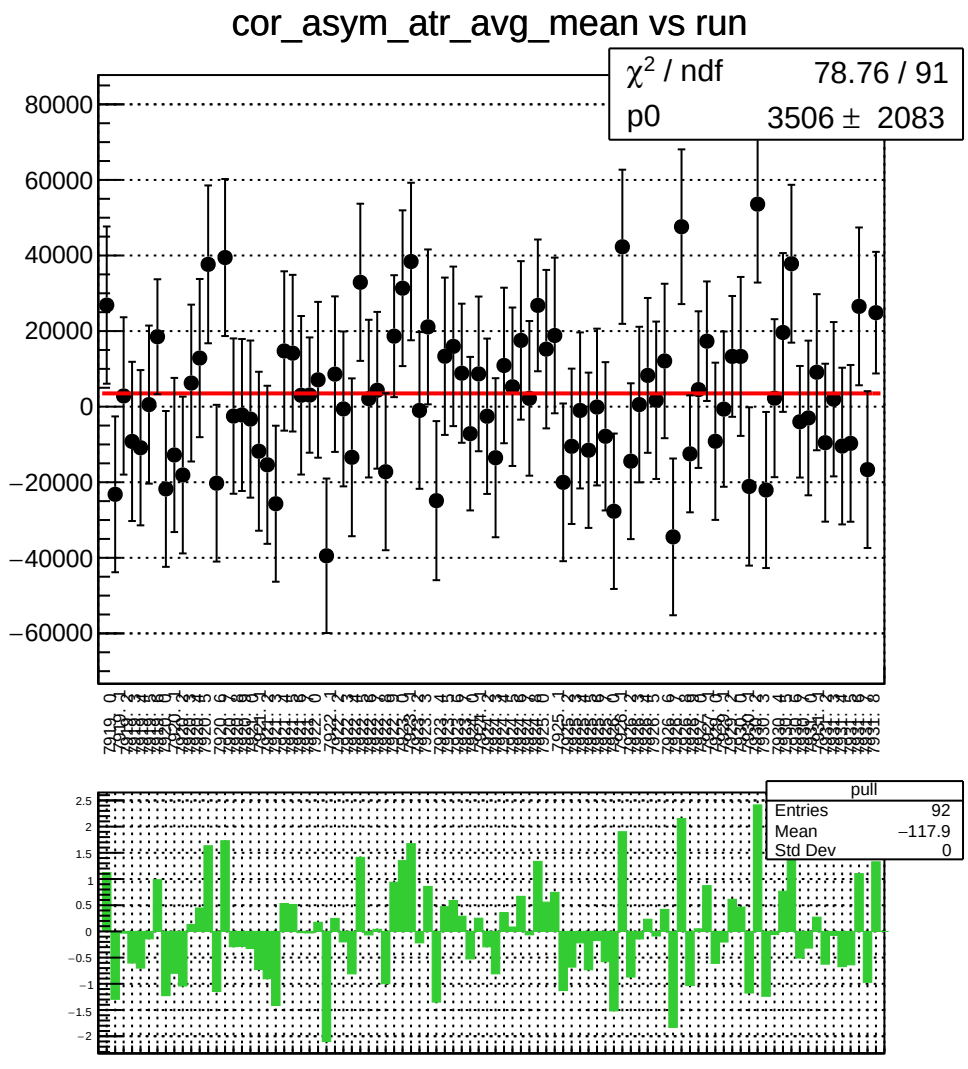

pull1D
Entries 92
Mean −0.01199
Std Dev 0.9251
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

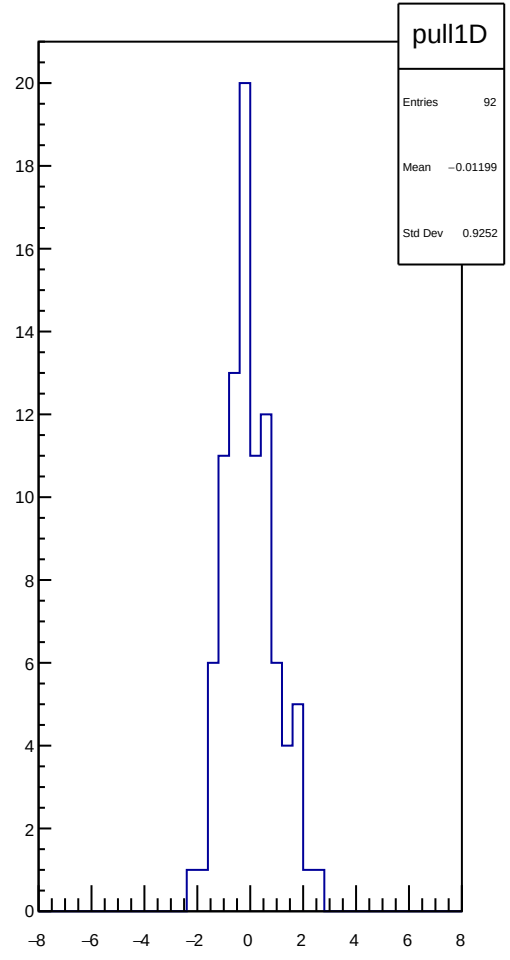

reg_asym_atr_avg_rms vs run
χ² / ndf 147.7 / 91
p0 1966 ± 1.473
2020
2000
1980
1960
1940
1920

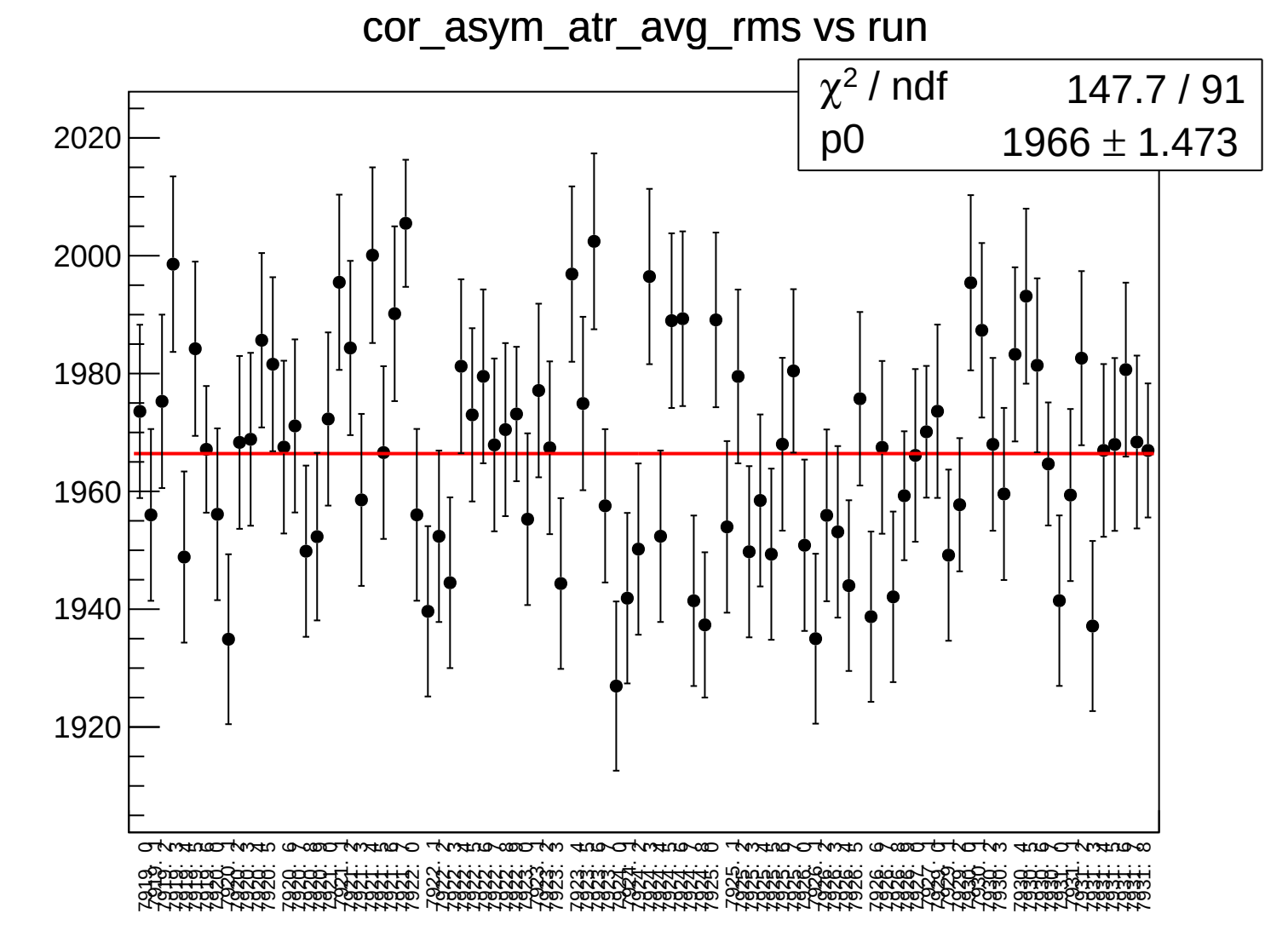

asym_atr_avg_reg_correction_mean vs run
×10^3
χ² / ndf 98.93 / 91
p0 1.088e+04 ± 7968
pull
Entries 92
Mean −234.9
Std Dev 0

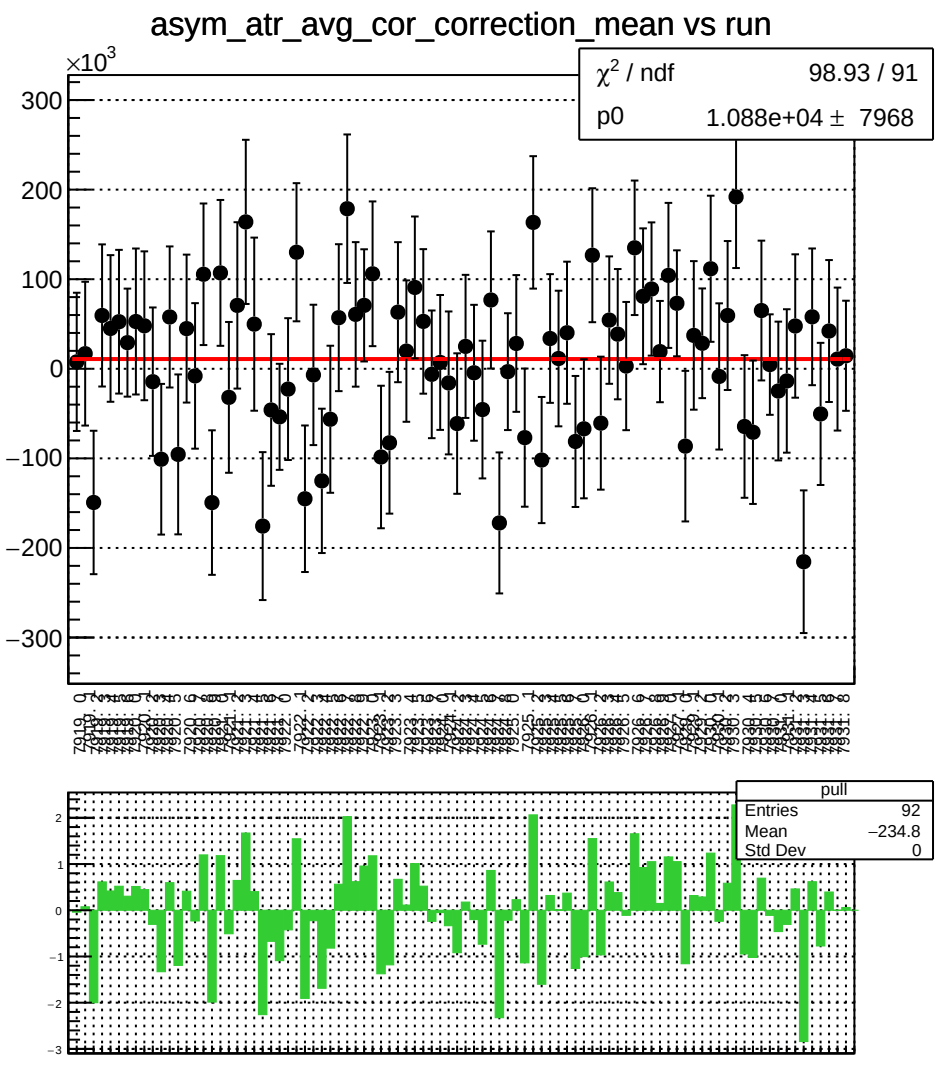

pull1D
Entries 92
Mean −0.005458
Std Dev 1.037

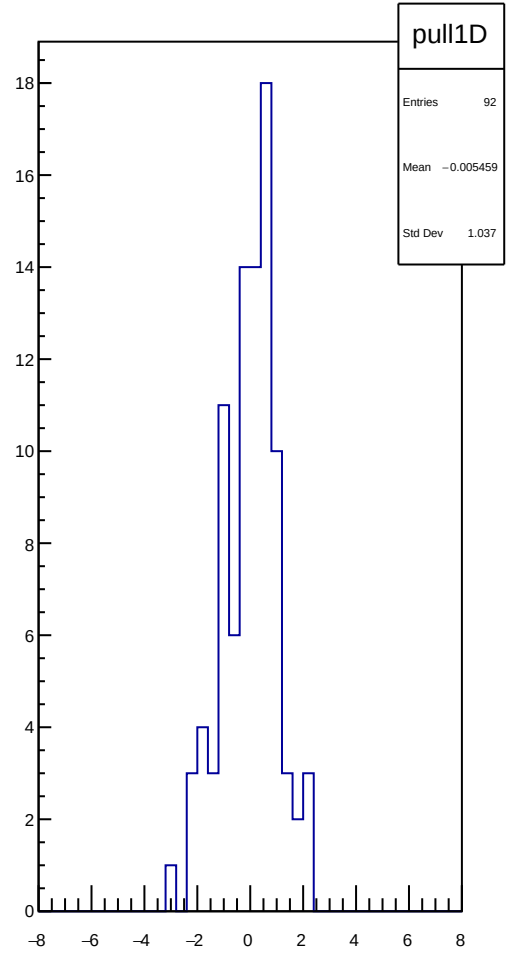

asym_atr_avg_reg_correction_rms vs run
χ² / ndf 4236 / 91
p0 7514 ± 5.634
9000
8500
8000
7500
7000
6500

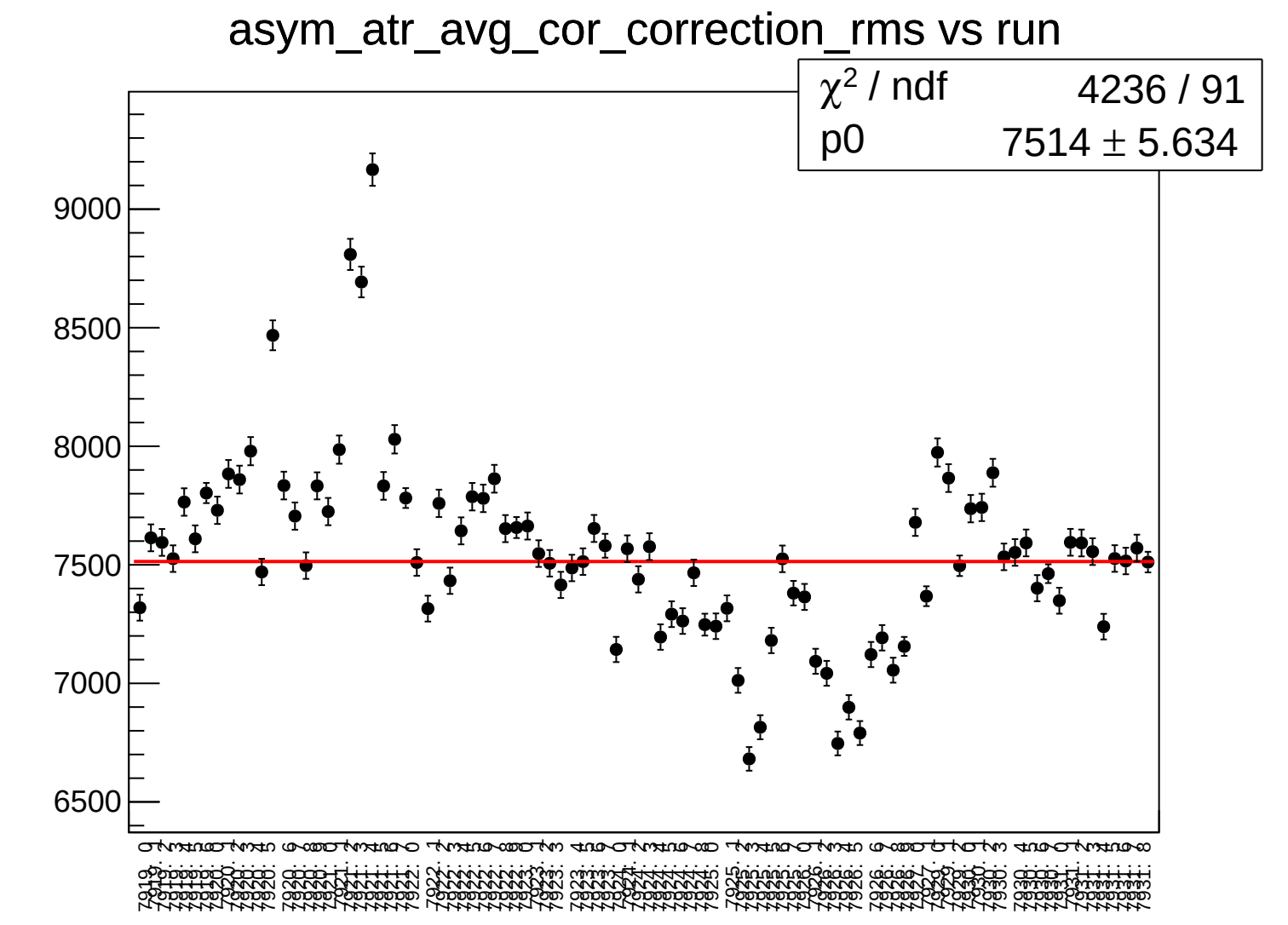

cor_asym_atr_avg_mean vs run
χ² / ndf 78.76 / 91
p0 3506 ± 2083
pull
Entries 92
Mean −117.9
Std Dev 0

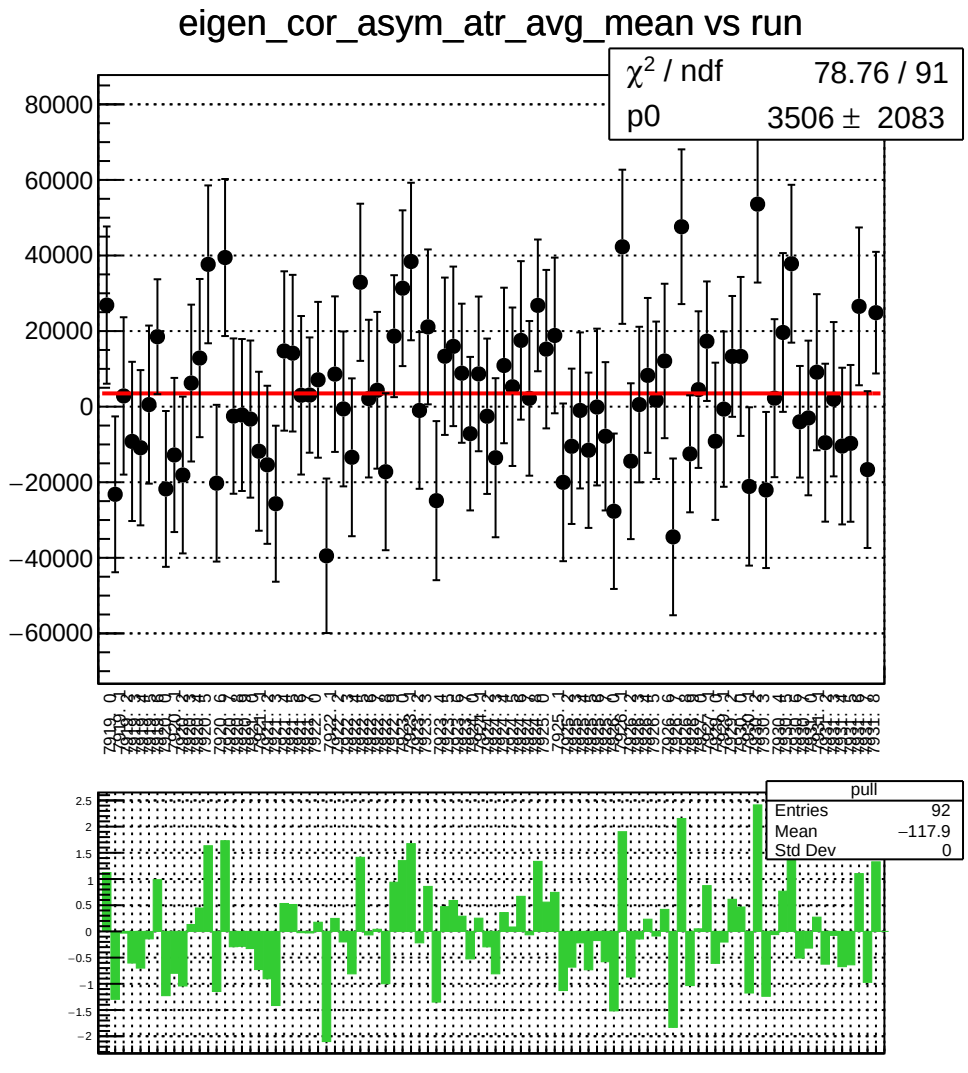

pull1D
Entries 92
Mean −0.01199
Std Dev 0.9252

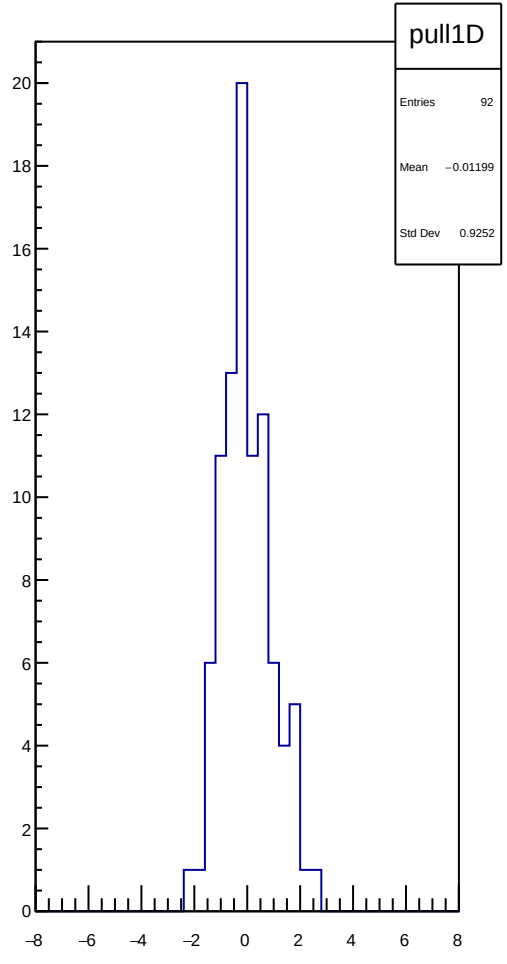

cor_asym_atr_avg_rms vs run
χ² / ndf 147.7 / 91
p0 1966 ± 1.473
2020
2000
1980
1960
1940
1920

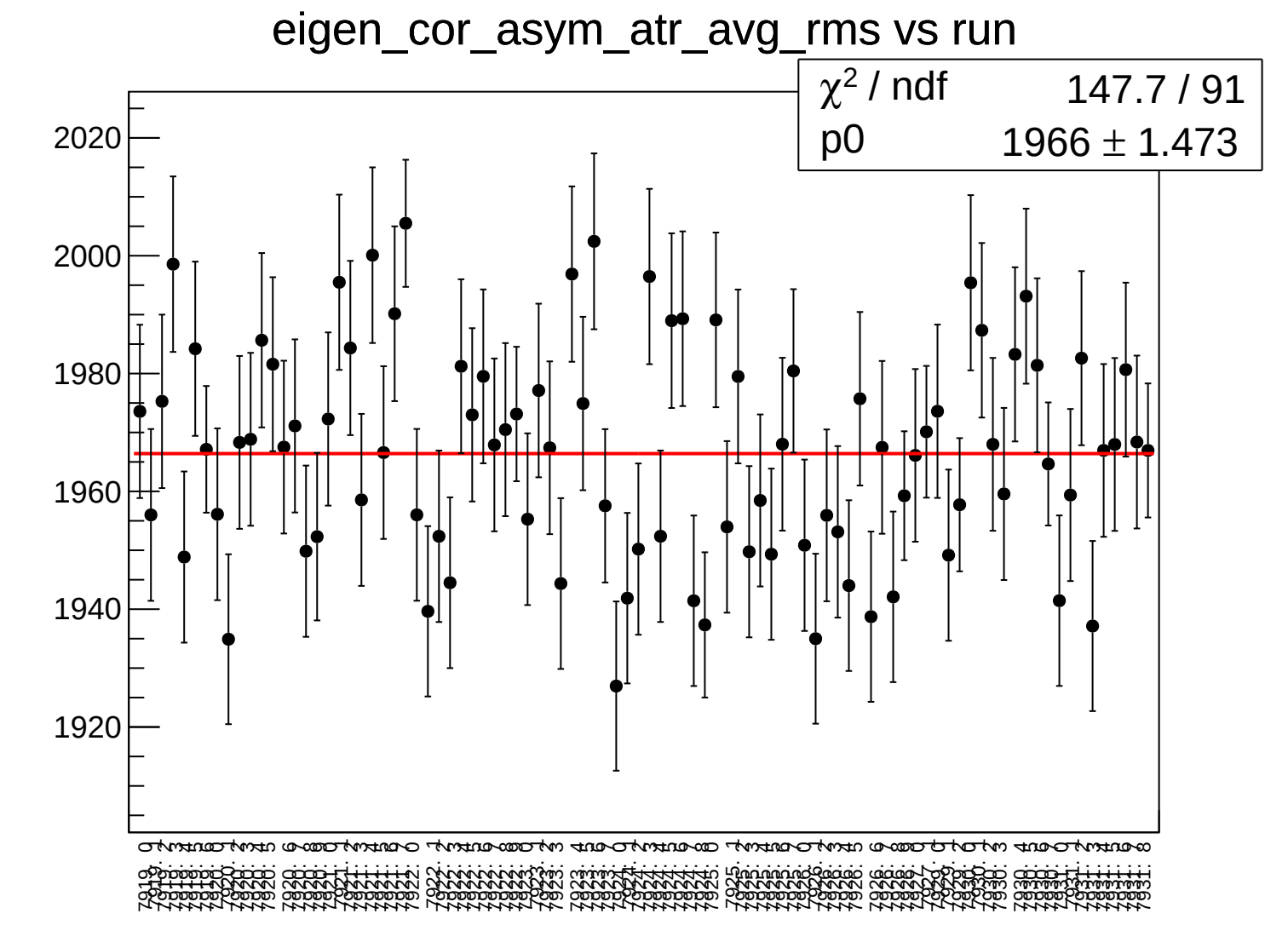

asym_atr_avg_cor_correction_mean vs run
×10^3
χ² / ndf 98.93 / 91
p0 1.088e+04 ± 7968
pull
Entries 92
Mean −234.8
Std Dev 0

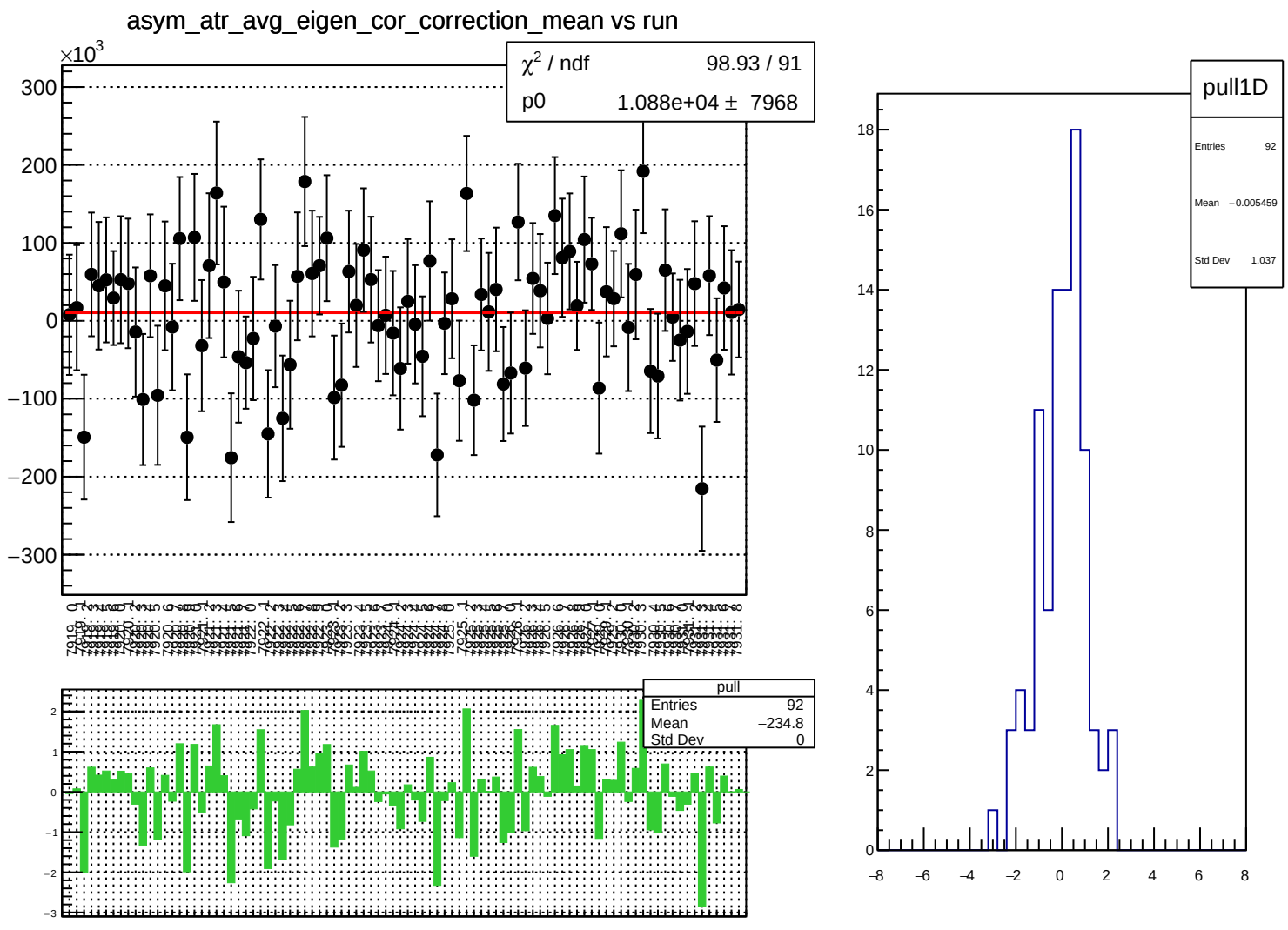

pull1D
Entries 92
Mean −0.005459
Std Dev 1.037

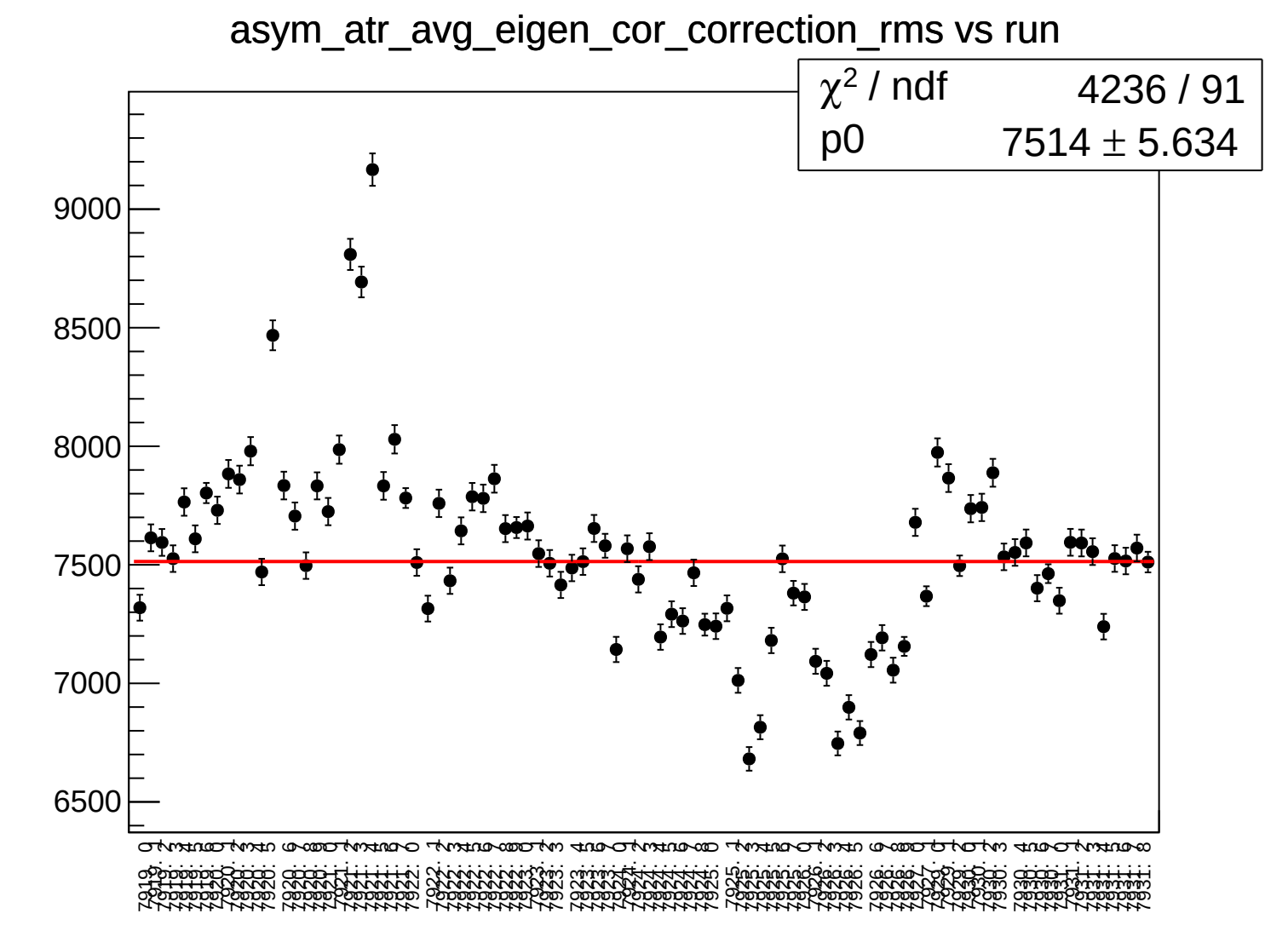

asym_atr_avg_cor_correction_rms vs run
χ^2 / ndf 4236 / 91
p0 7514 ± 5.634
9000
8500
8000
7500
7000
6500

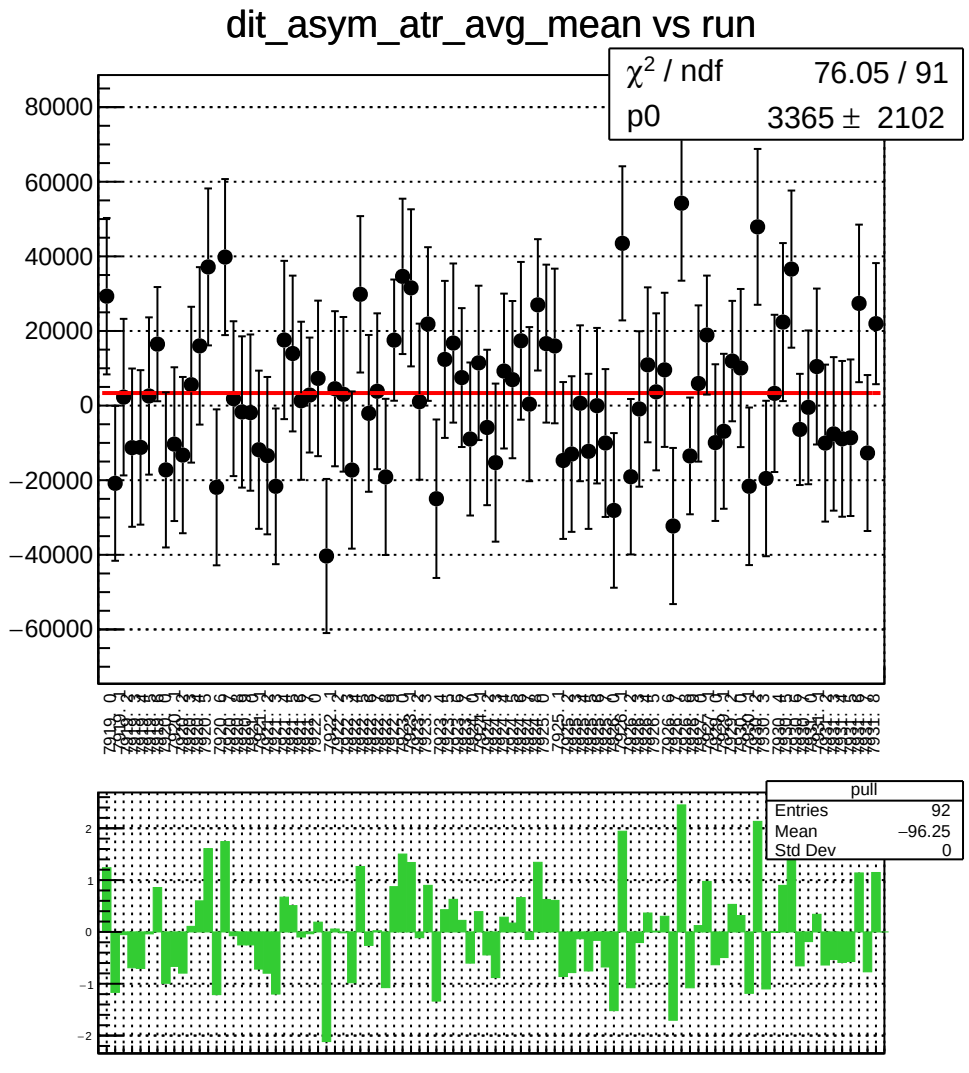

eigen_cor_asym_atr_avg_mean vs run
χ² / ndf 78.76 / 91
p0 3506 ± 2083
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −117.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

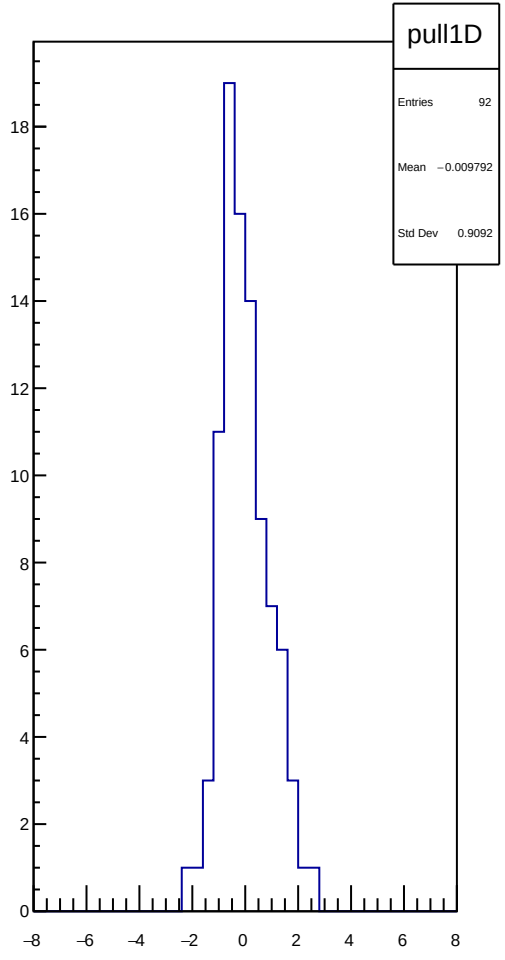

pull1D
Entries 92
Mean −0.01199
Std Dev 0.9252
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

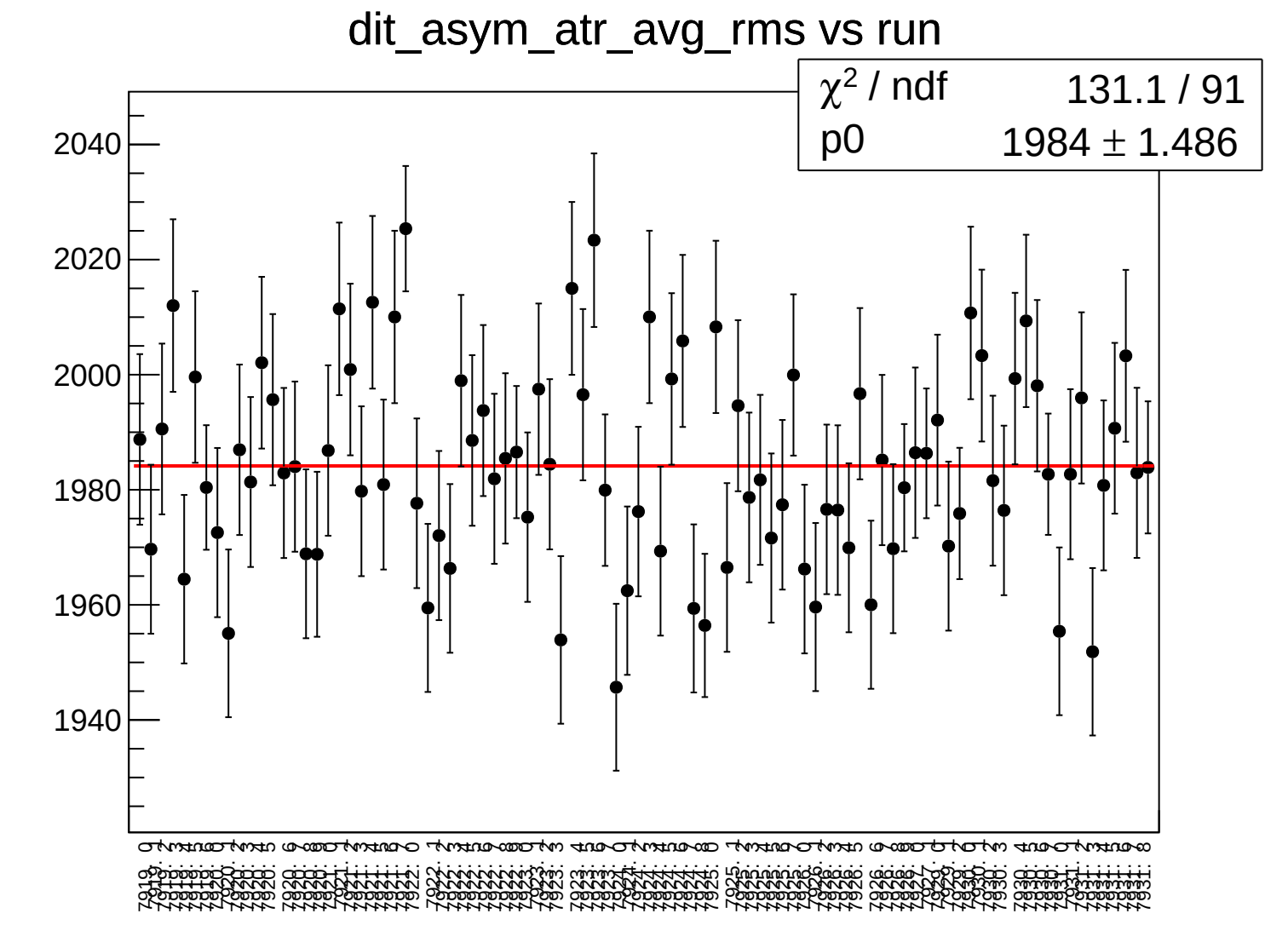

eigen_cor_asym_atr_avg_rms vs run
χ² / ndf 147.7 / 91
p0 1966 ± 1.473
2020
2000
1980
1960
1940
1920

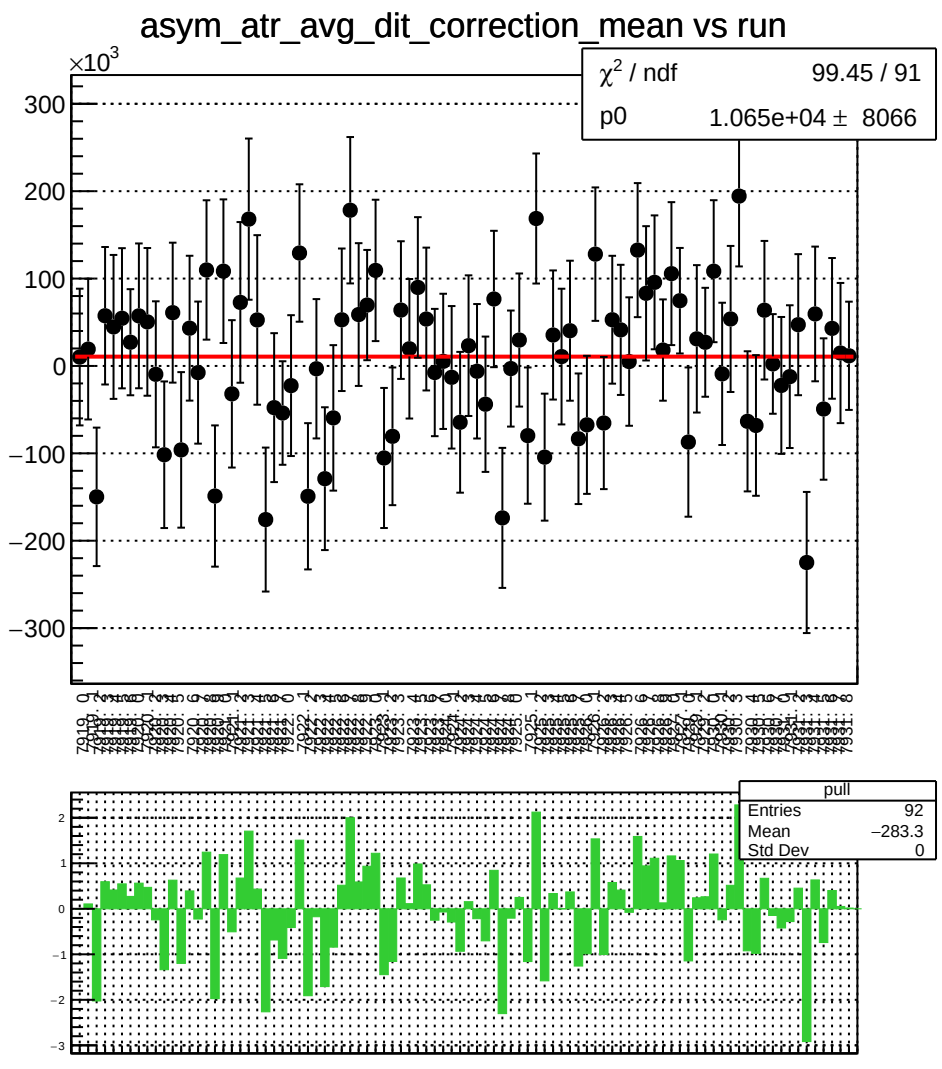

asym_atr_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 98.93 / 91
p0 1.088e+04 ± 7968
pull
Entries 92
Mean −234.8
Std Dev 0
pull1D
Entries 92
Mean −0.005459
Std Dev 1.037

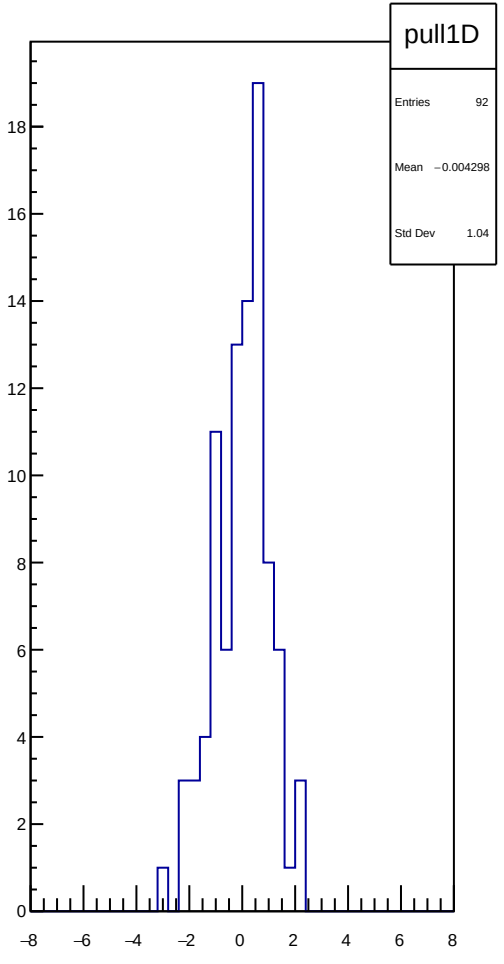

asym_atr_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 4236 / 91
p0 7514 ± 5.634
9000
8500
8000
7500
7000
6500

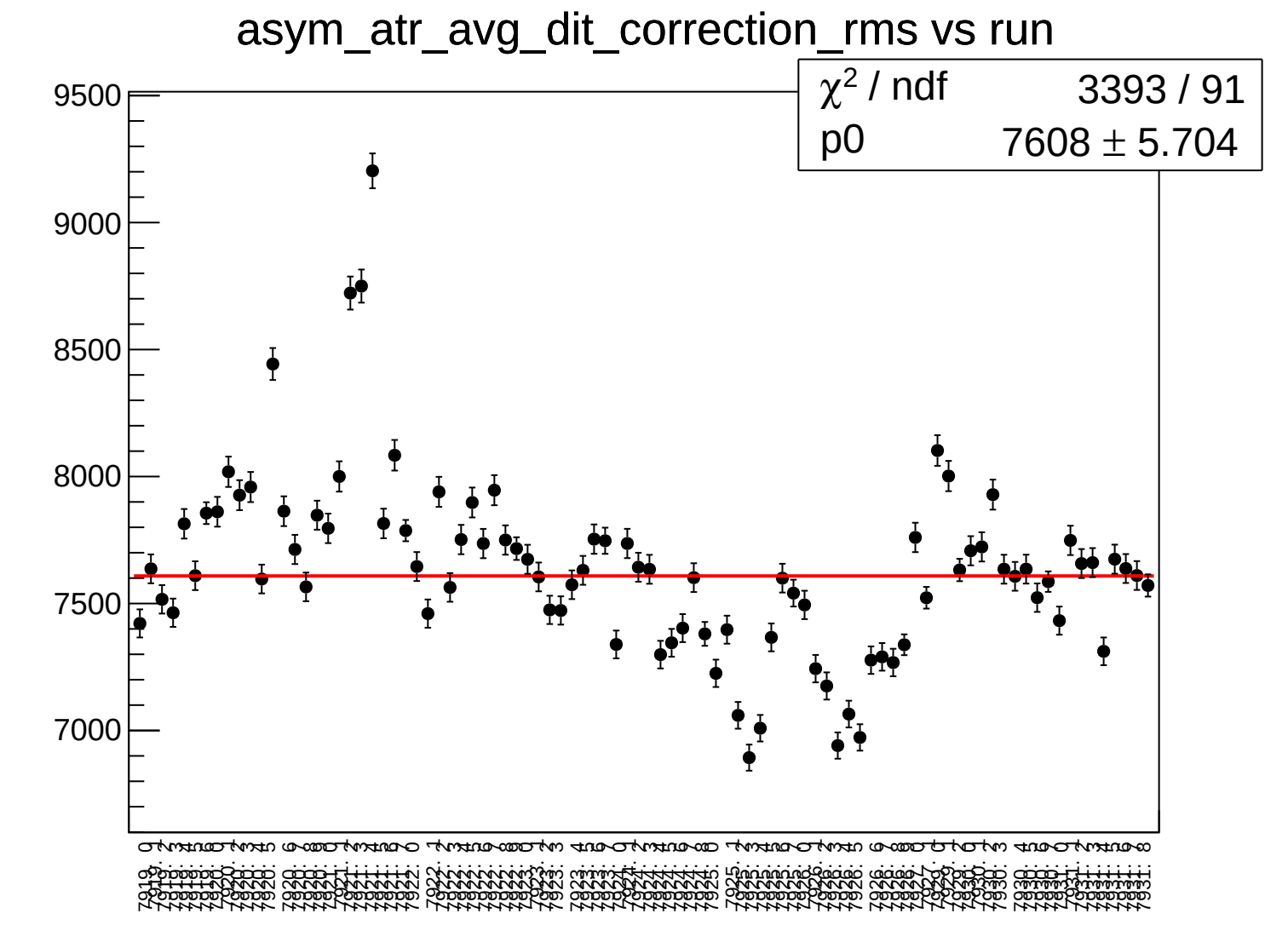

dit_asym_atr_avg_mean vs run
χ² / ndf 76.05 / 91
p0 3365 ± 2102
pull
Entries 92
Mean −96.25
Std Dev 0

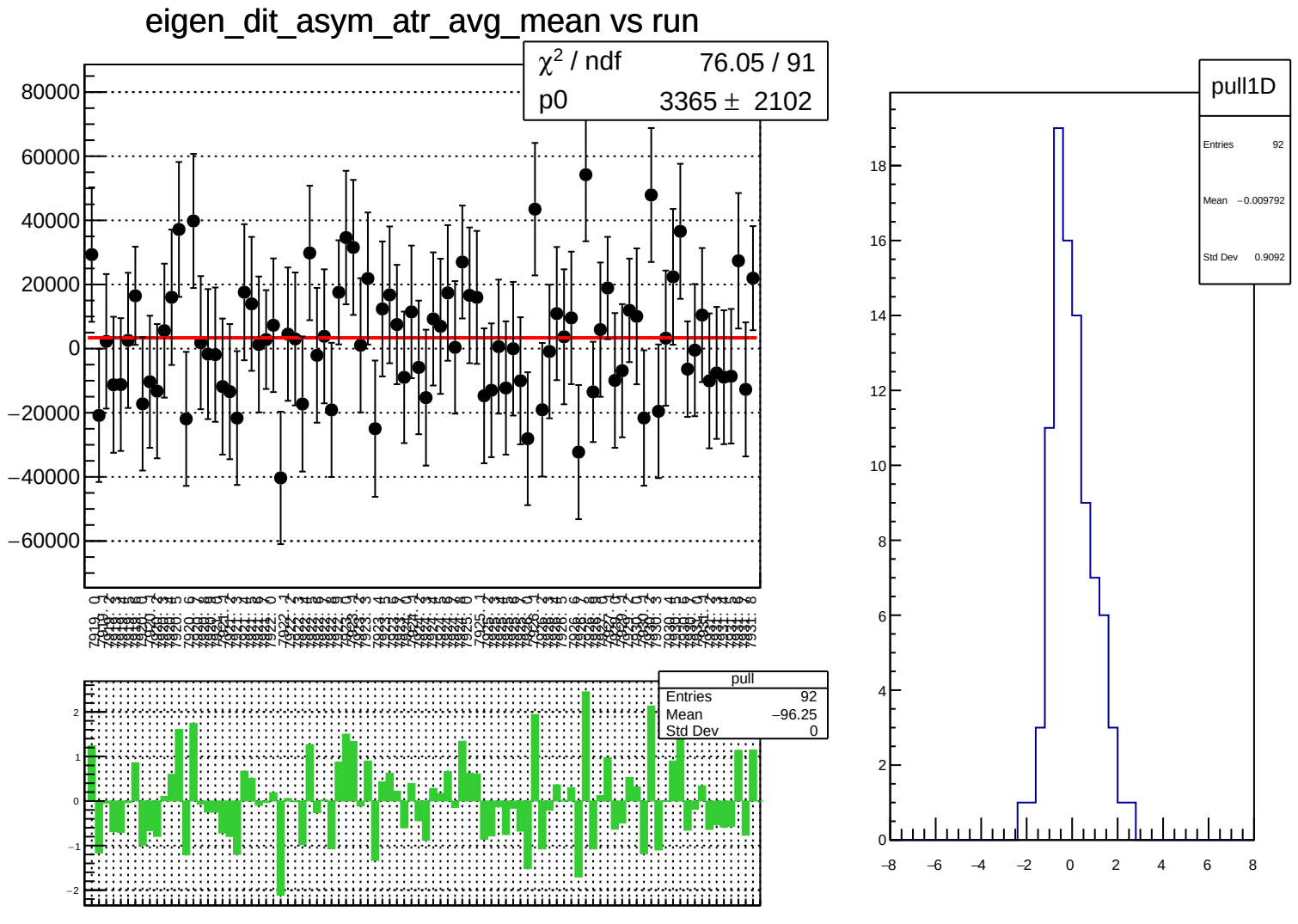

pull1D
Entries 92
Mean −0.009792
Std Dev 0.9092

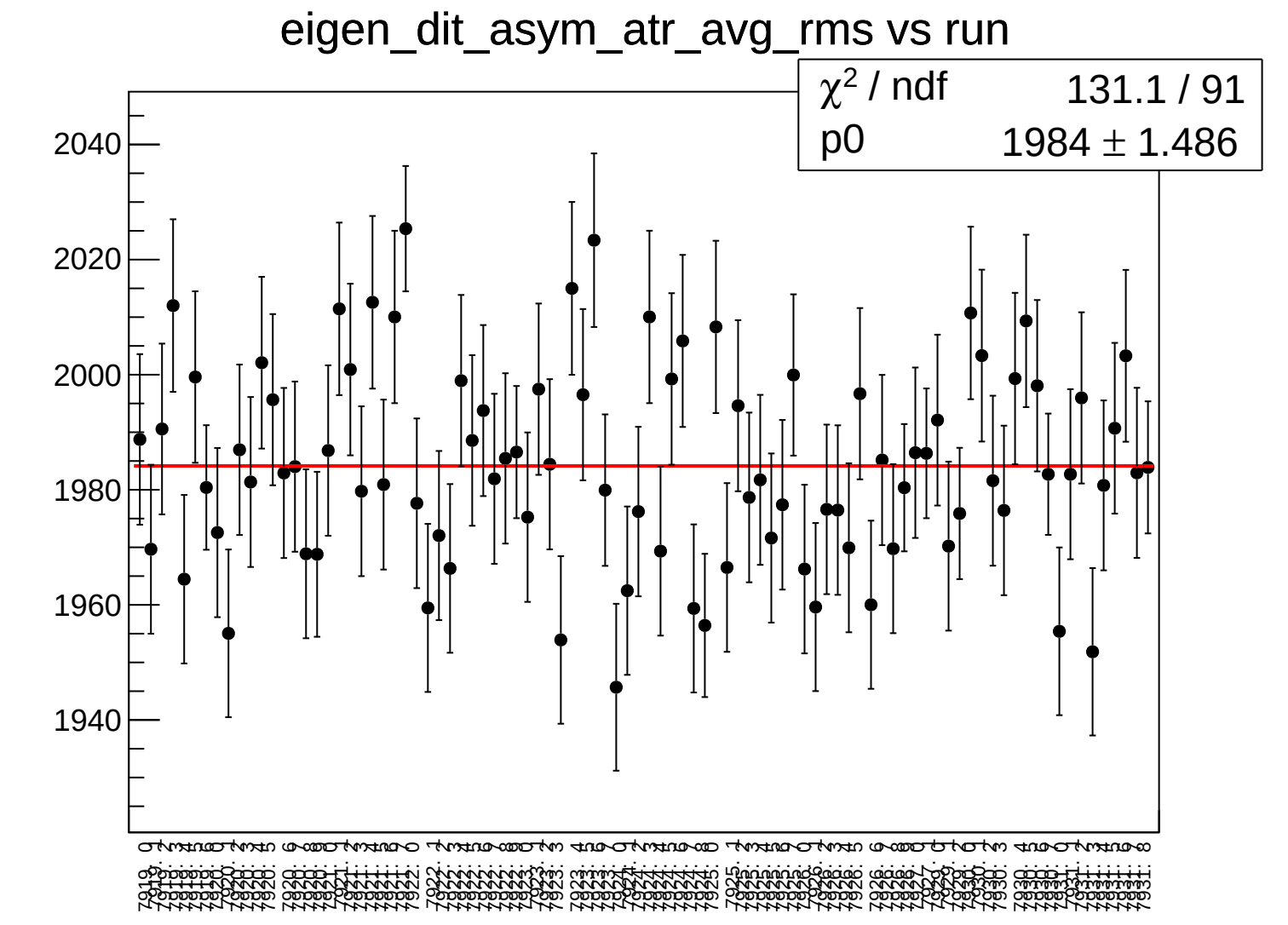

dit_asym_atr_avg_rms vs run
χ² / ndf 131.1 / 91
p0 1984 ± 1.486
2040
2020
2000
1980
1960
1940

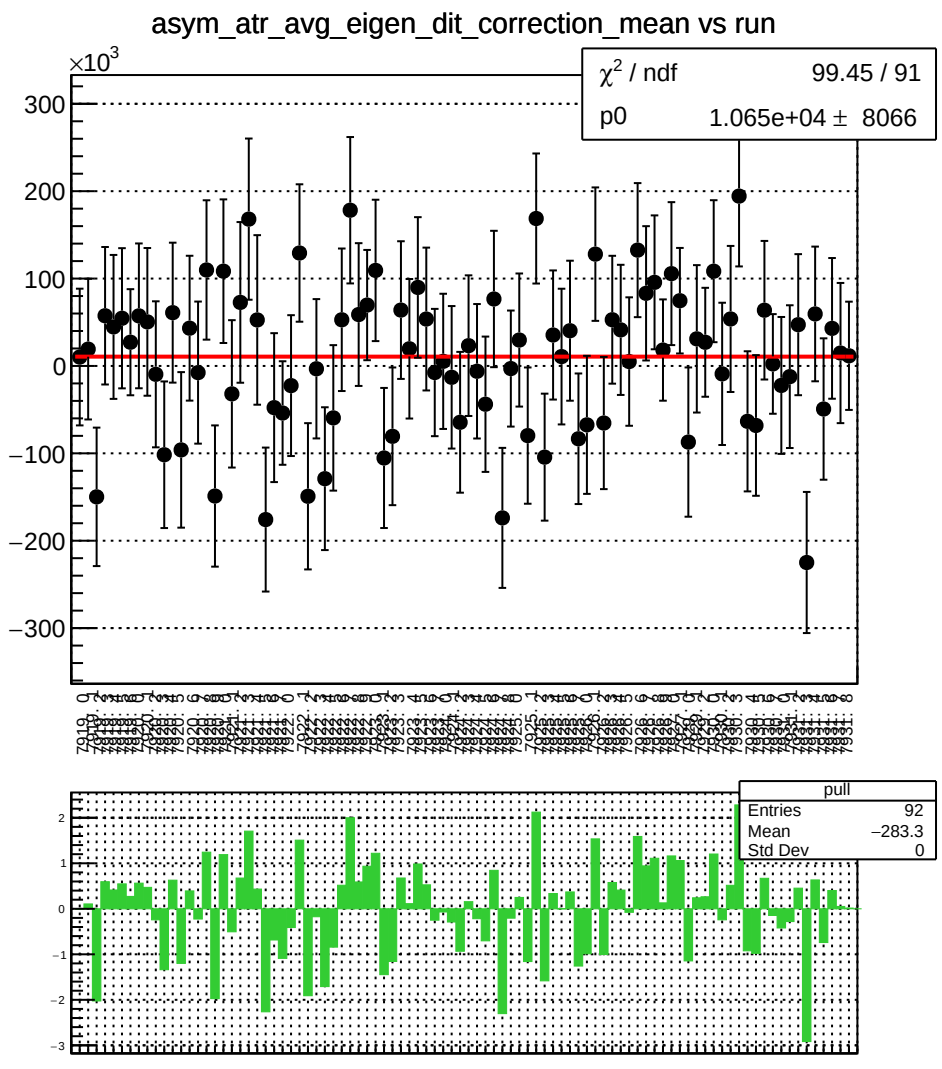

asym_atr_avg_dit_correction_mean vs run
×10^3
χ² / ndf 99.45 / 91
p0 1.065e+04 ± 8066
pull
Entries 92
Mean −283.3
Std Dev 0

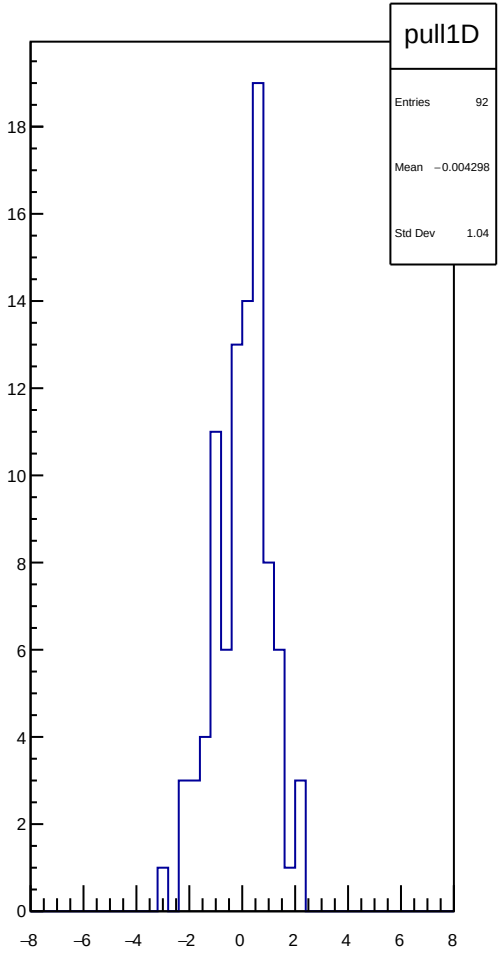

pull1D
Entries 92
Mean −0.004298
Std Dev 1.04

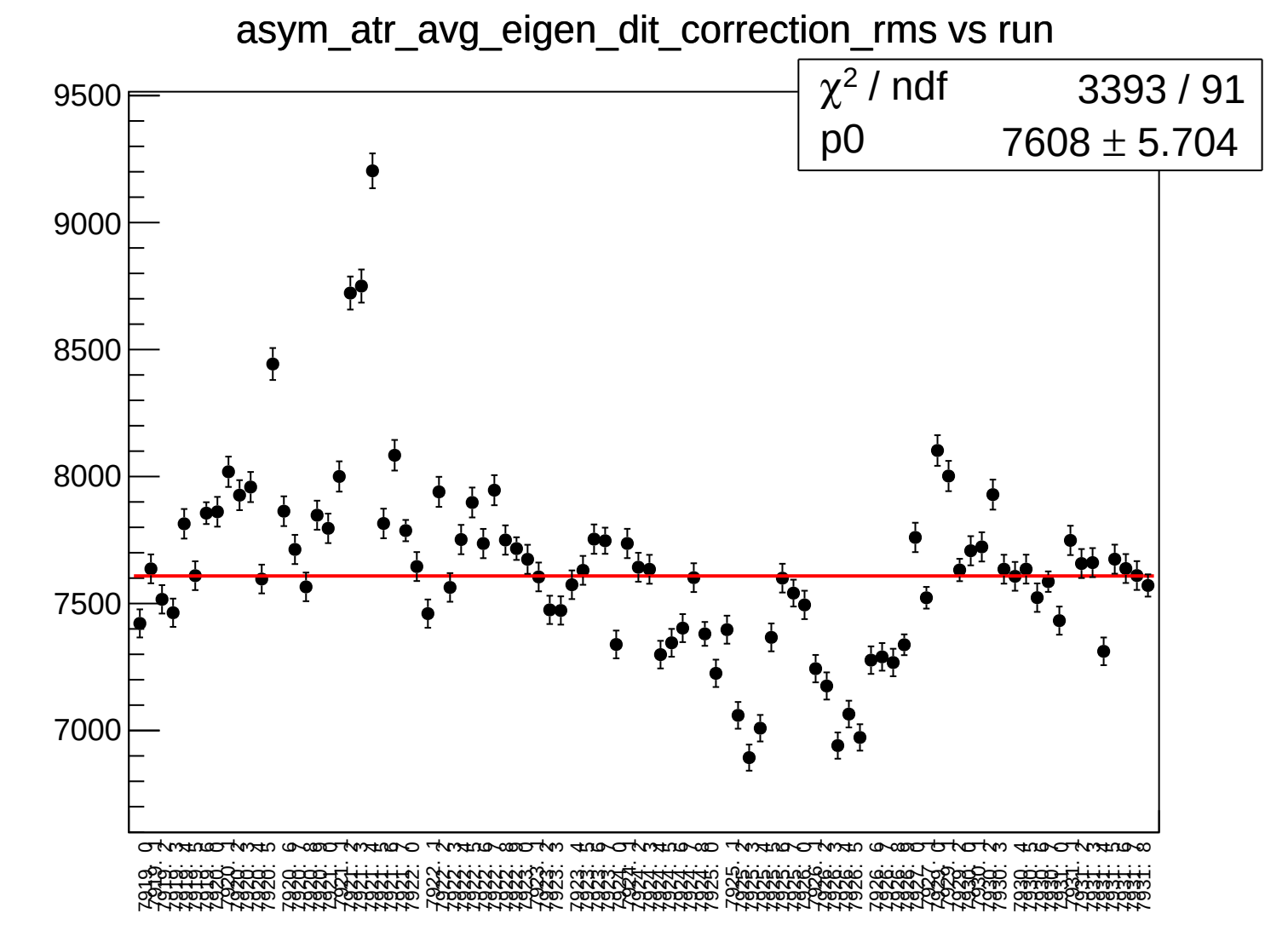

asym_atr_avg_dit_correction_rms vs run
χ² / ndf 3393 / 91
p0 7608 ± 5.704
9500
9000
8500
8000
7500
7000

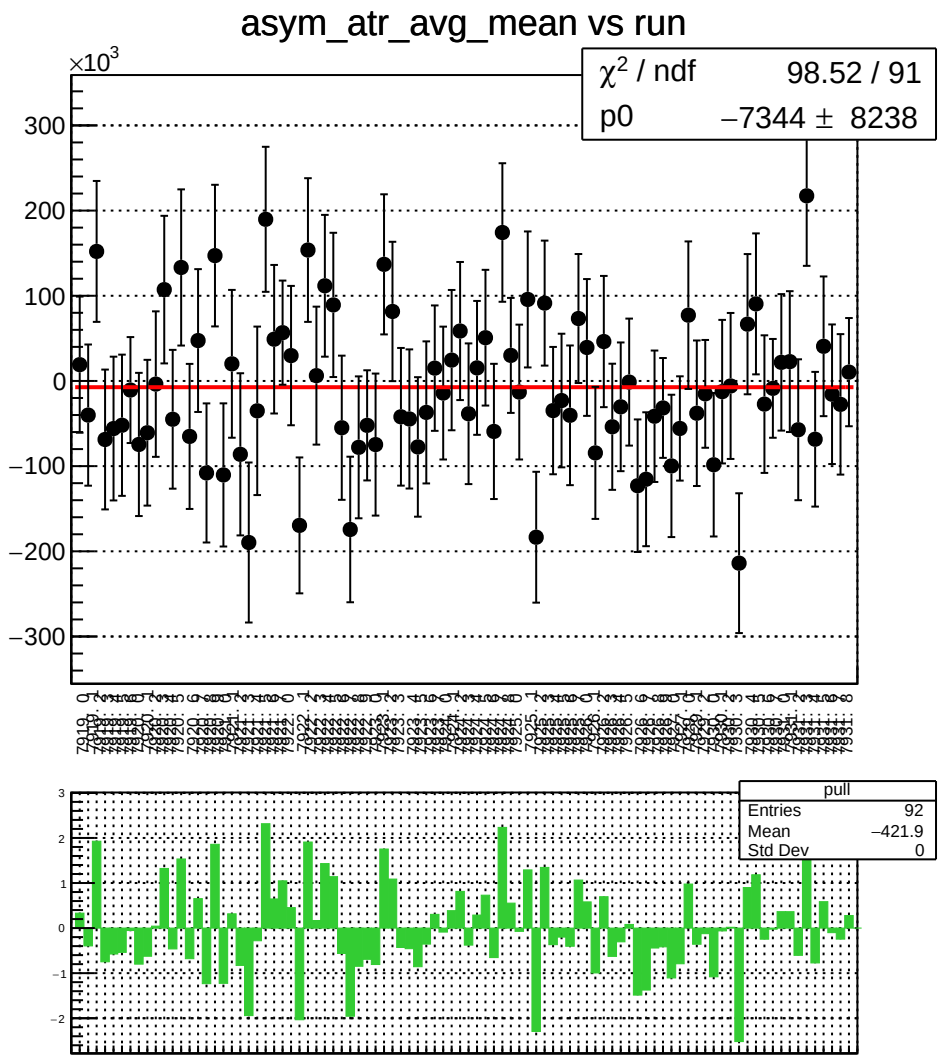

eigen_dit_asym_atr_avg_mean vs run
χ² / ndf 76.05 / 91
p0 3365 ± 2102
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −96.25
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.009792
Std Dev 0.9092
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

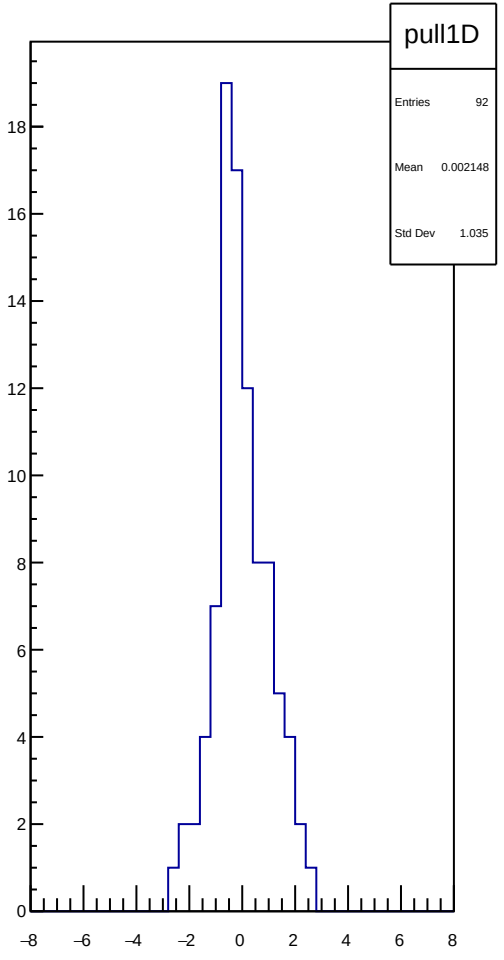

eigen_dit_asym_atr_avg_rms vs run
χ^2 / ndf 131.1 / 91
p0 1984 ± 1.486
2040
2020
2000
1980
1960
1940

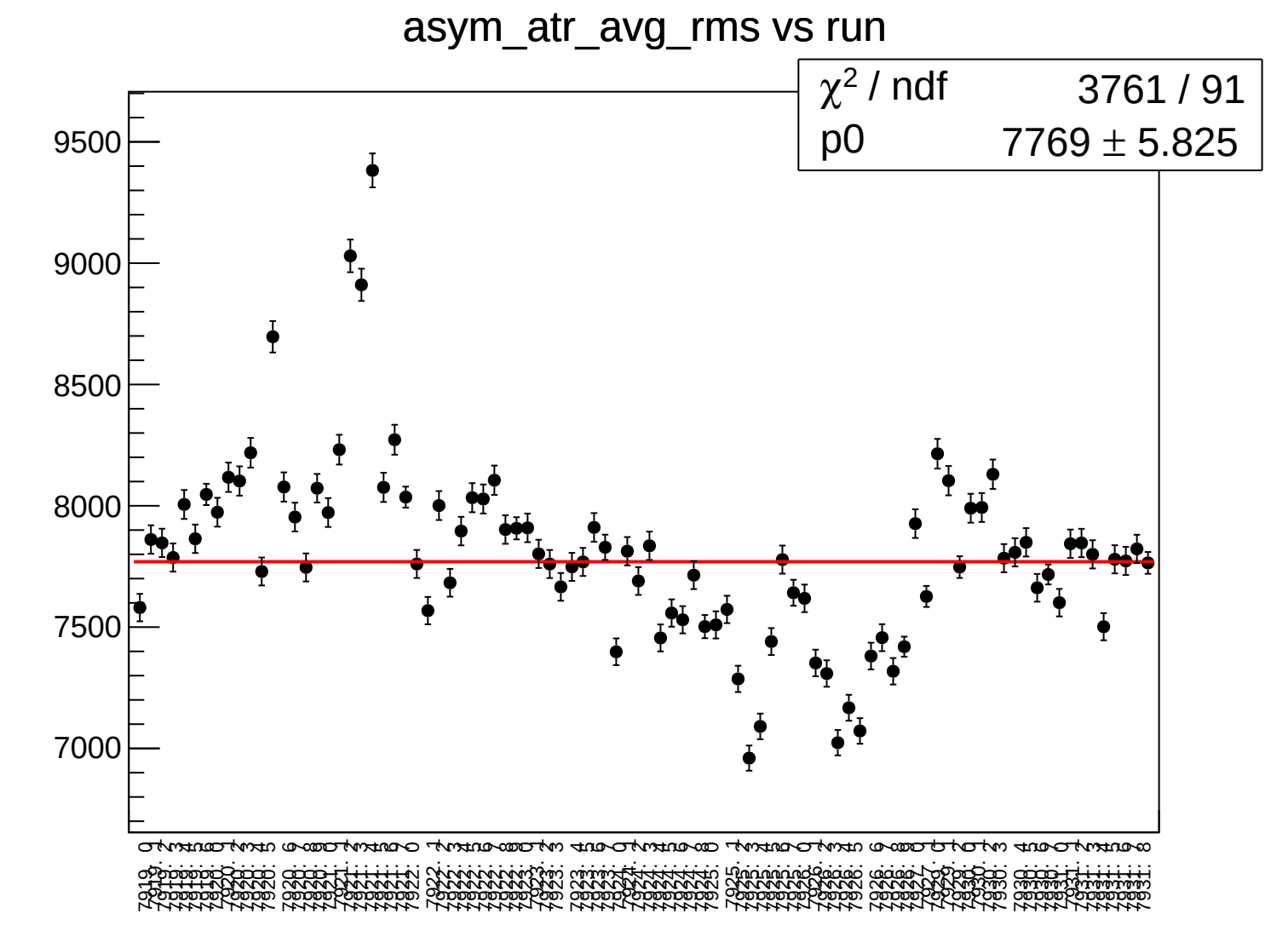

asym_atr_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 99.45 / 91
p0 1.065e+04 ± 8066
pull
Entries 92
Mean −283.3
Std Dev 0

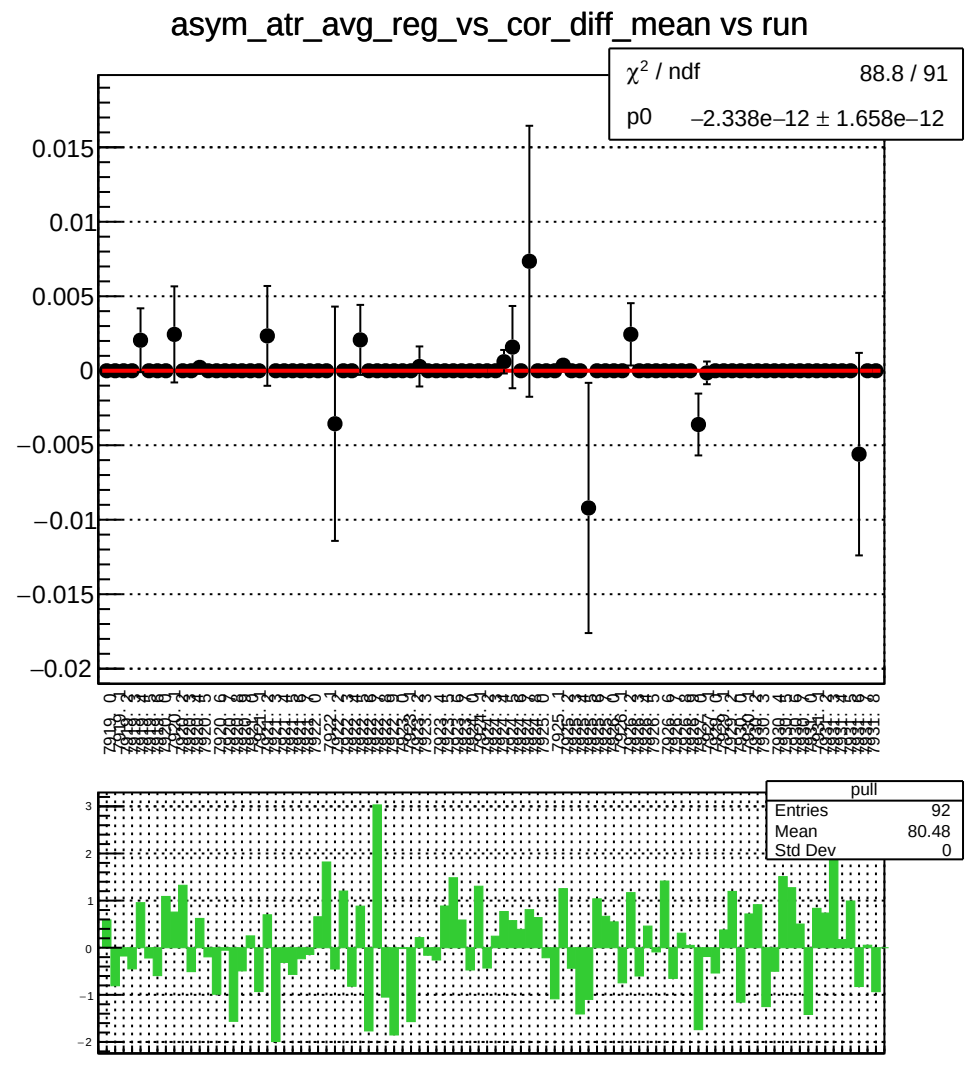

pull1D
Entries 92
Mean −0.004298
Std Dev 1.04

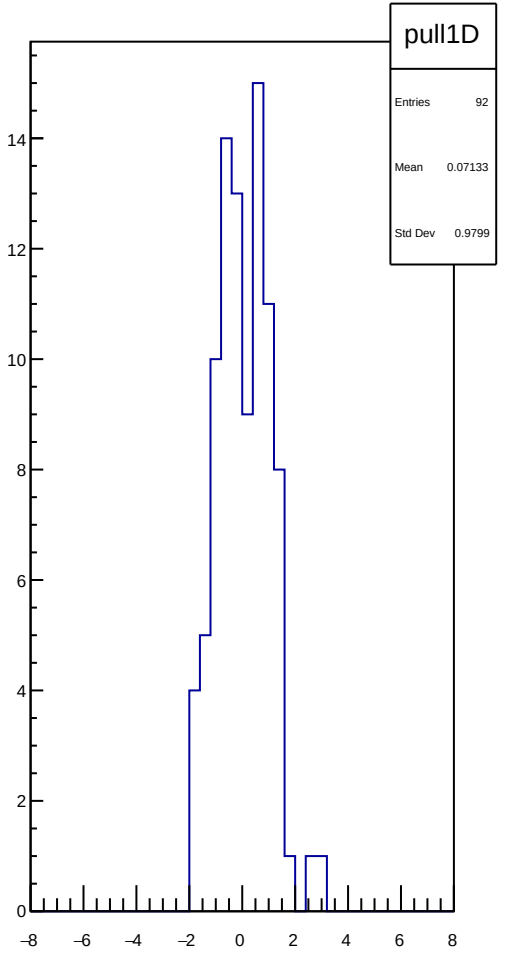

asym_atr_avg_eigen_dit_correction_rms vs run
χ² / ndf 3393 / 91
p0 7608 ± 5.704
9500
9000
8500
8000
7500
7000

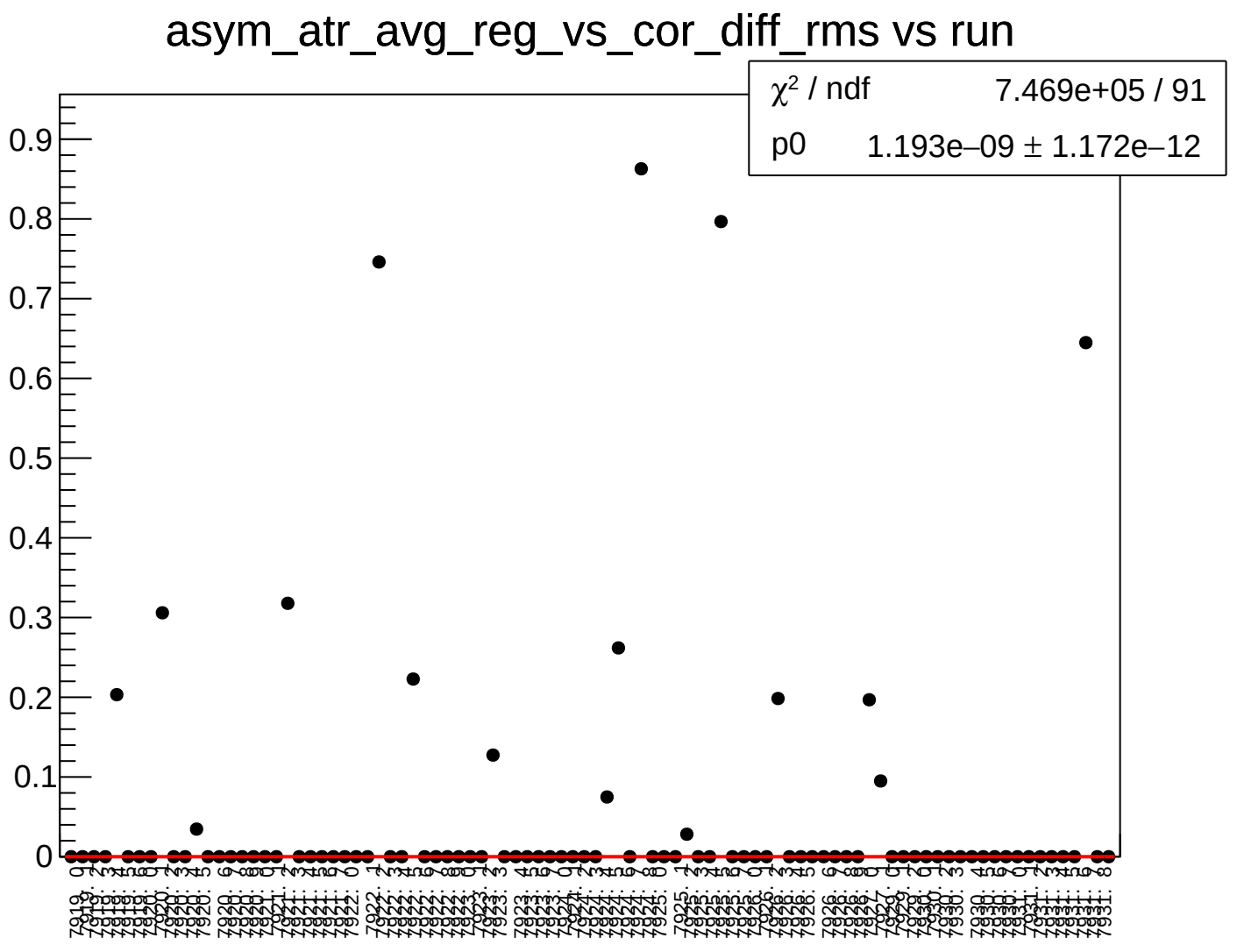

asym_atr_avg_mean vs run
×10^3
χ² / ndf 98.52 / 91
p0 −7344 ± 8238
300
200
100
0
−100
−200
−300
pull
Entries 92
Mean −421.9
Std Dev 0
3
2
1
0
−1
−2

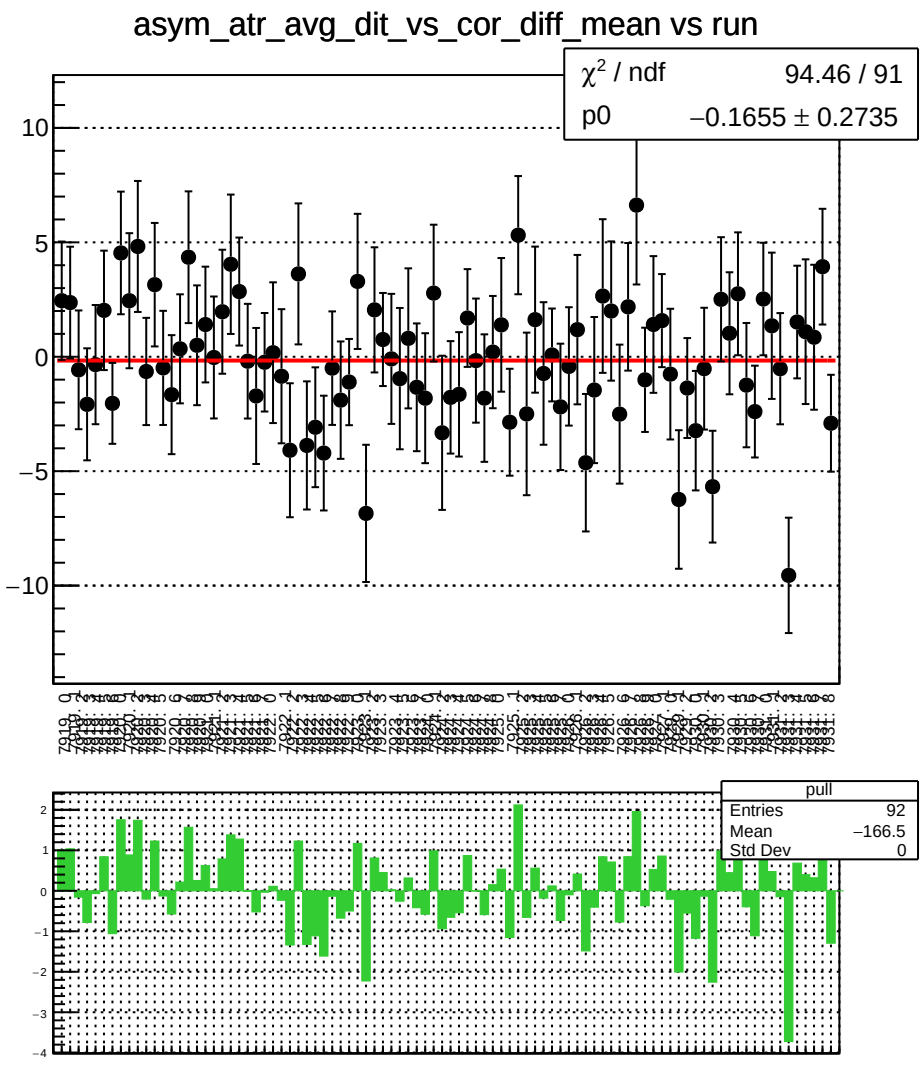

pull1D
Entries 92
Mean 0.002148
Std Dev 1.035
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

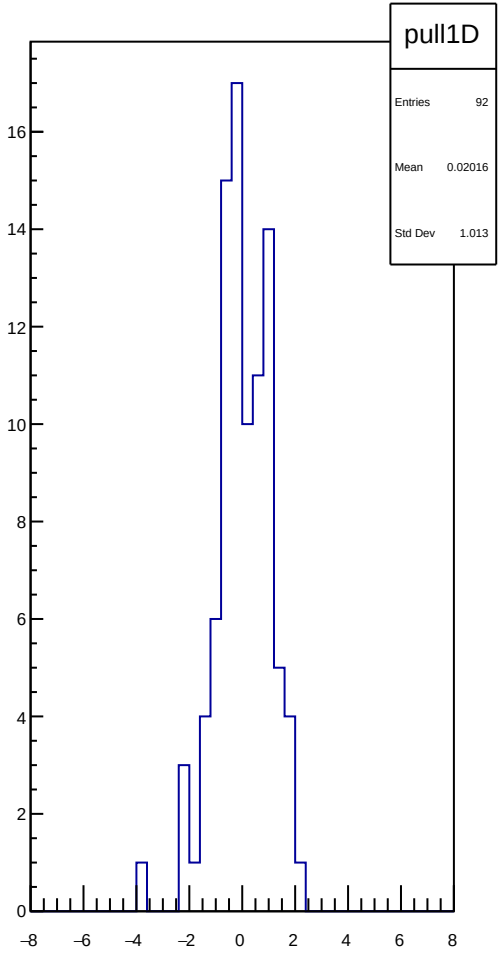

asym_atr_avg_rms vs run
χ^2 / ndf 3761 / 91
p0 7769 ± 5.825
9500
9000
8500
8000
7500
7000

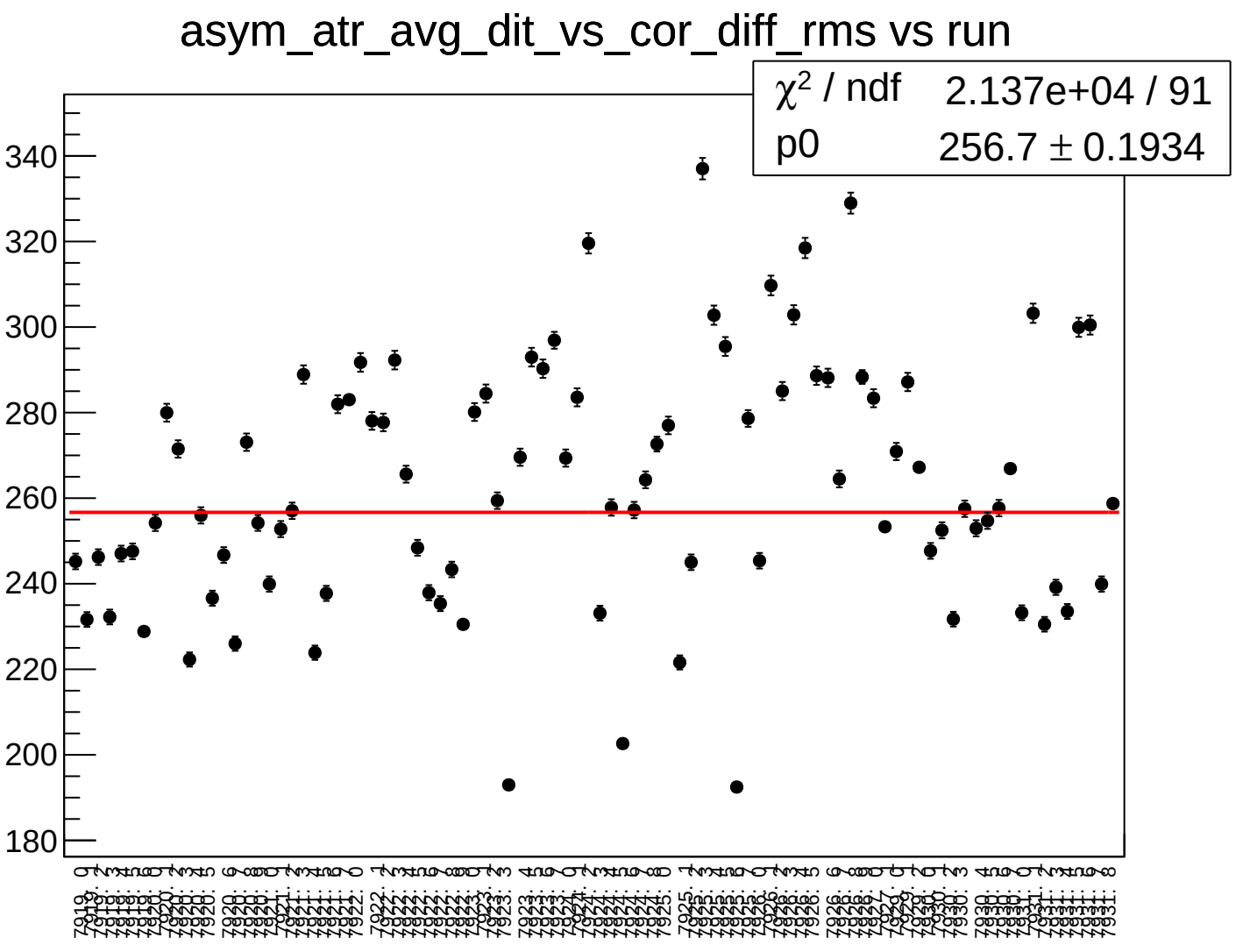

asym_atr_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 88.8 / 91
p0 −2.338e−12 ± 1.658e−12
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 92
Mean 80.48
Std Dev 0
3
2
1
0
−1
−2

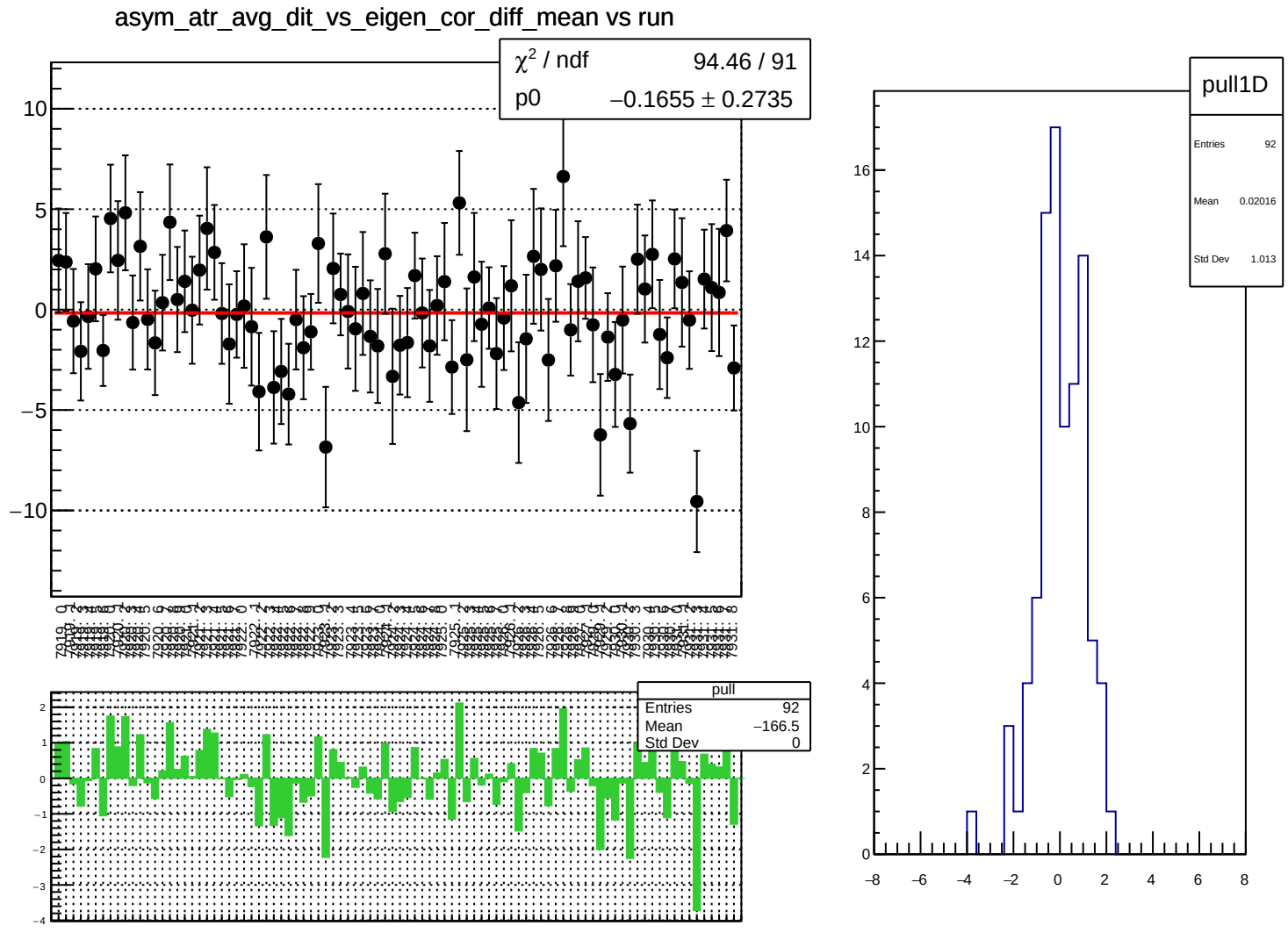

pull1D
Entries 92
Mean 0.07133
Std Dev 0.9799
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

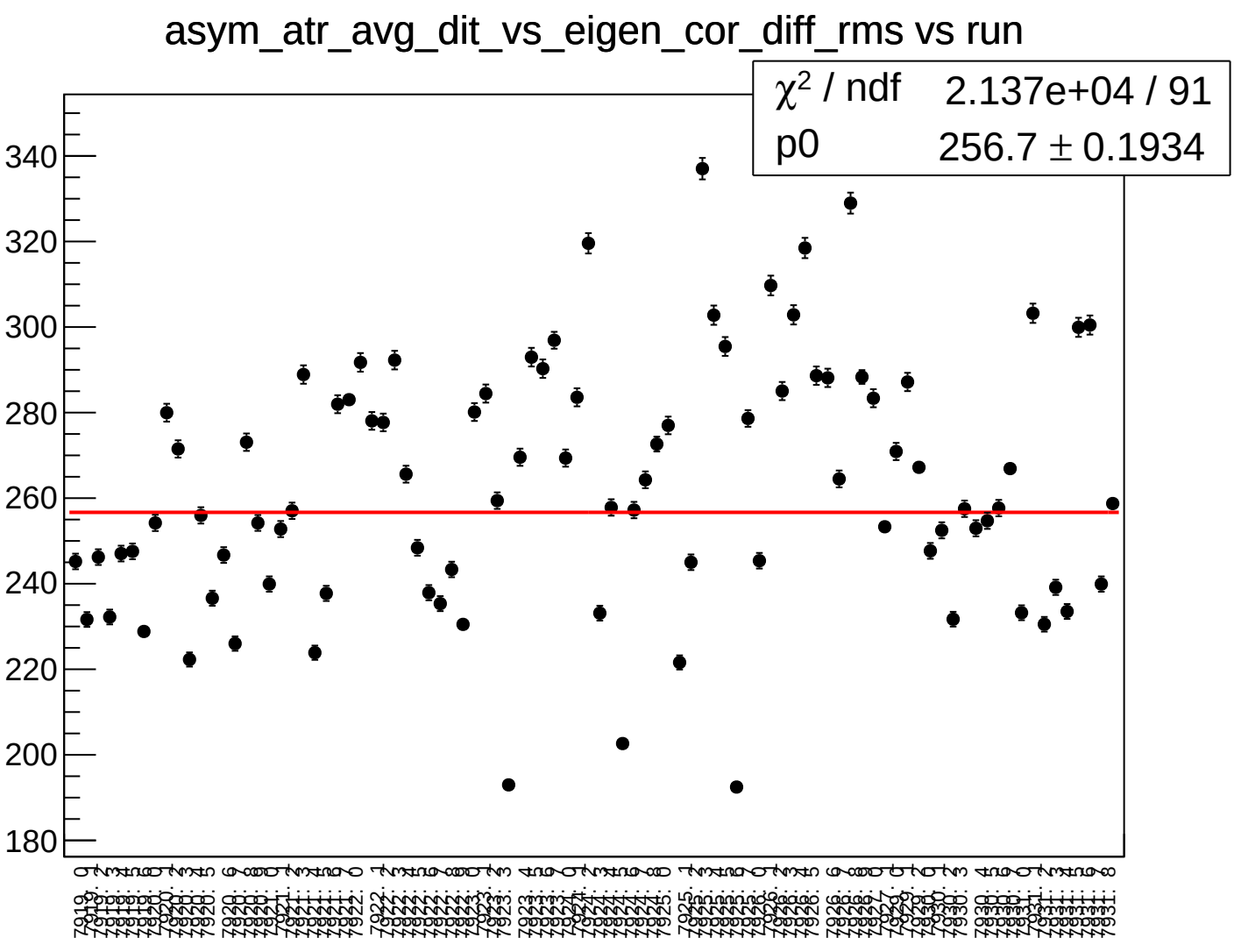

asym_atr_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 7.469e+05 / 91
p0 1.193e−09 ± 1.172e−12
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

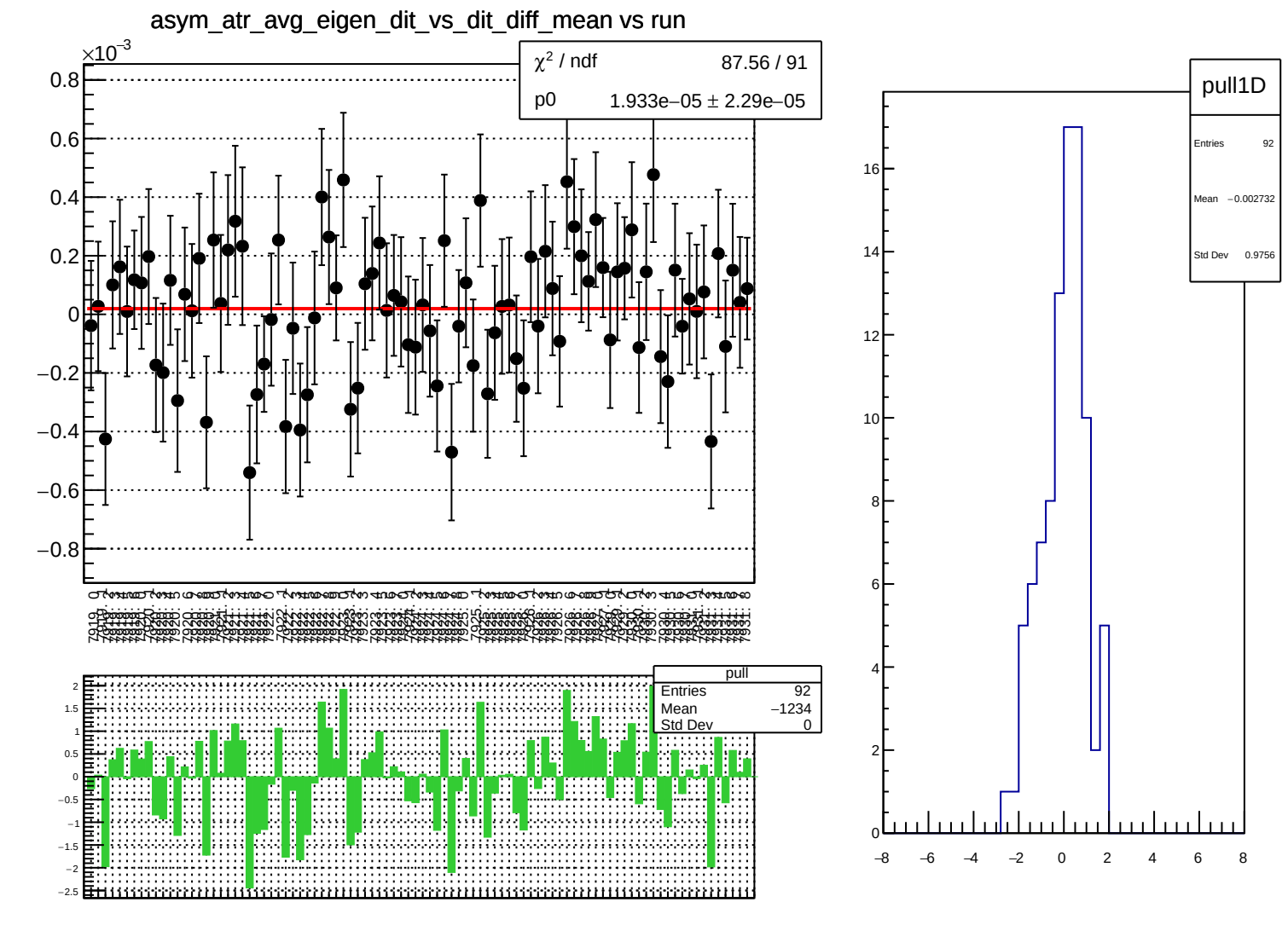

asym_atr_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 94.46 / 91
p0 −0.1655 ± 0.2735
pull
Entries 92
Mean −166.5
Std Dev 0

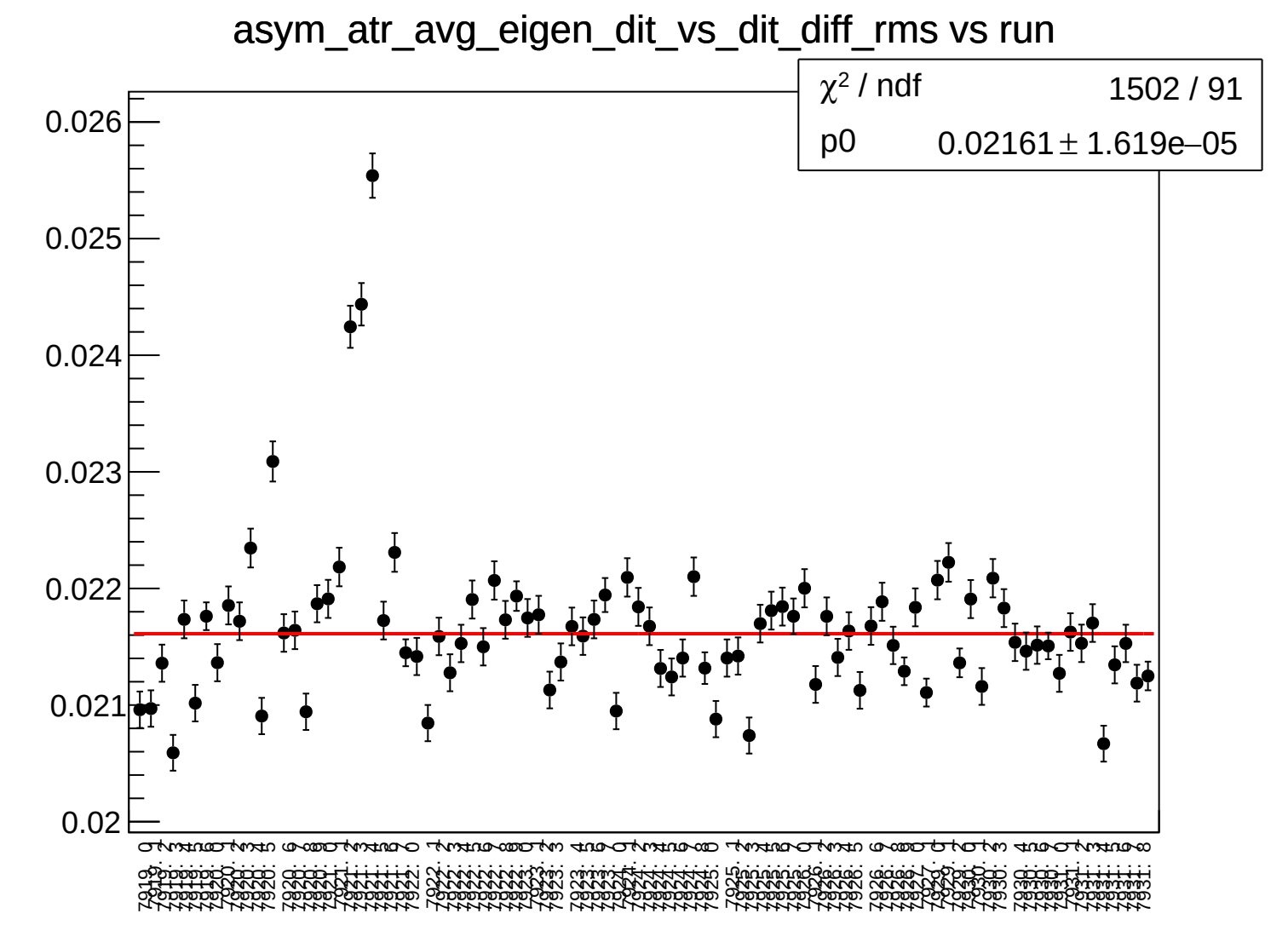

pull1D
Entries 92
Mean 0.02016
Std Dev 1.013

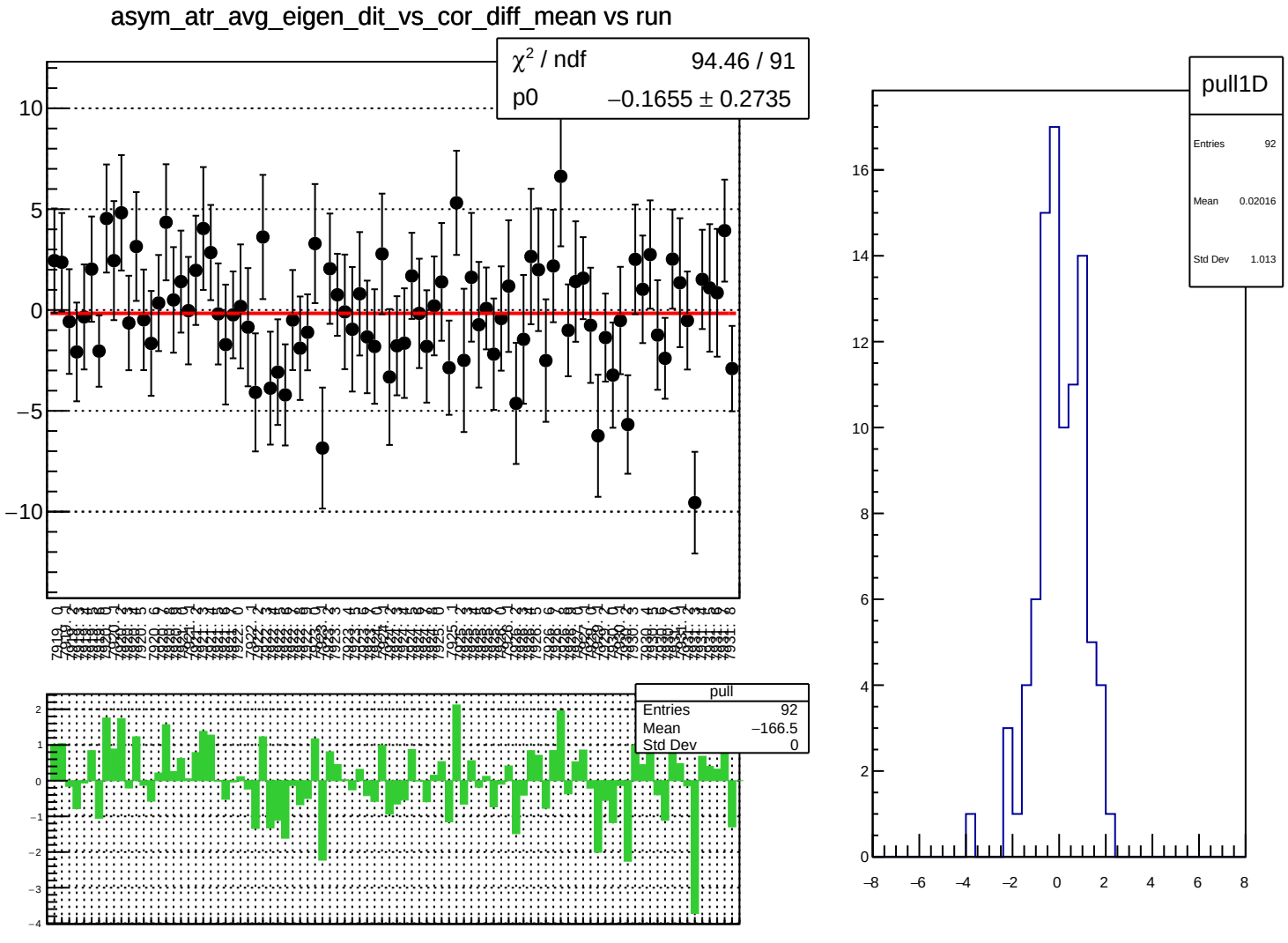

asym_atr_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.137e+04 / 91
p0 256.7 ± 0.1934
340
320
300
280
260
240
220
200
180

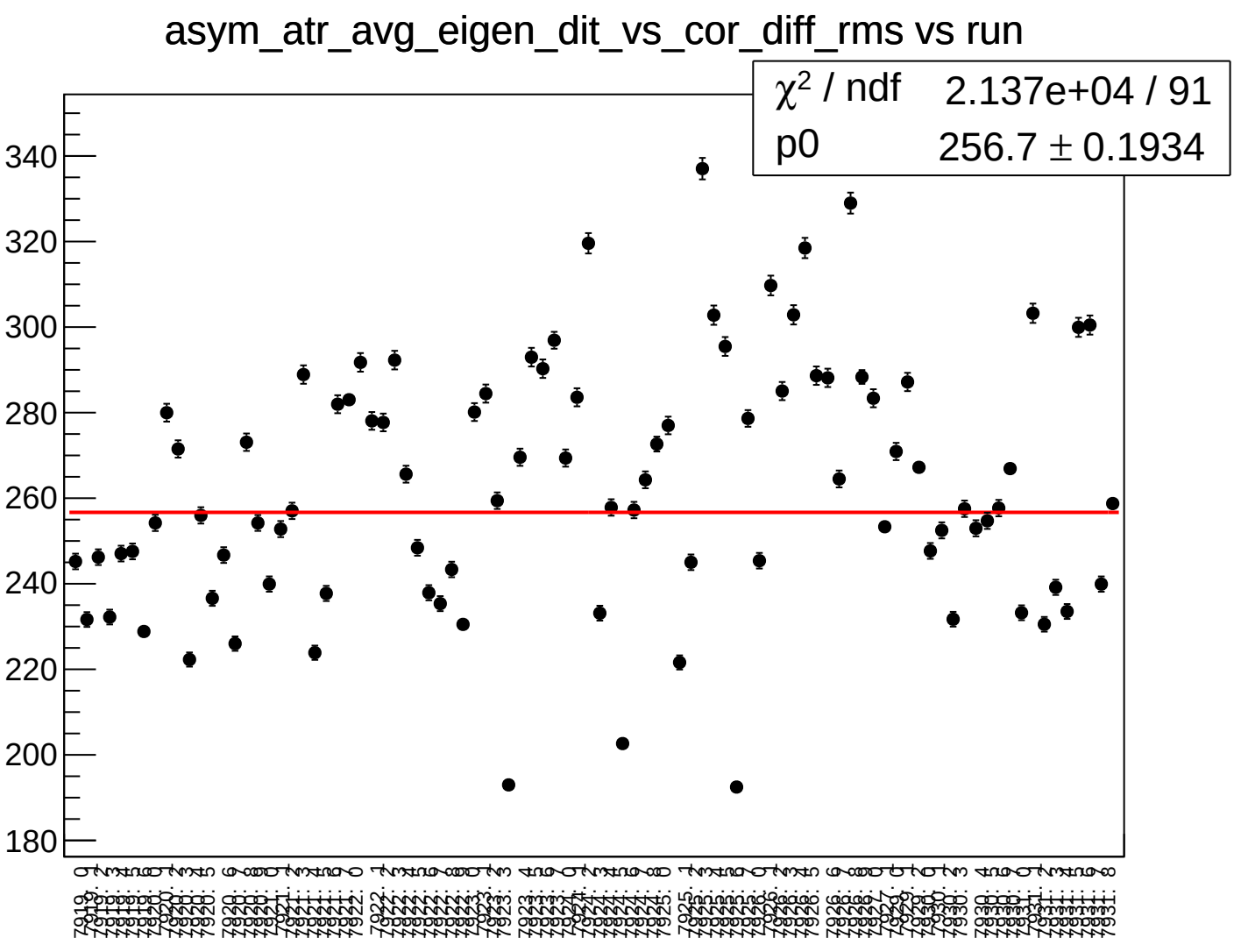

asym_atr_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.46 / 91
p0 −0.1655 ± 0.2735
pull
Entries 92
Mean −166.5
Std Dev 0
pull1D
Entries 92
Mean 0.02016
Std Dev 1.013

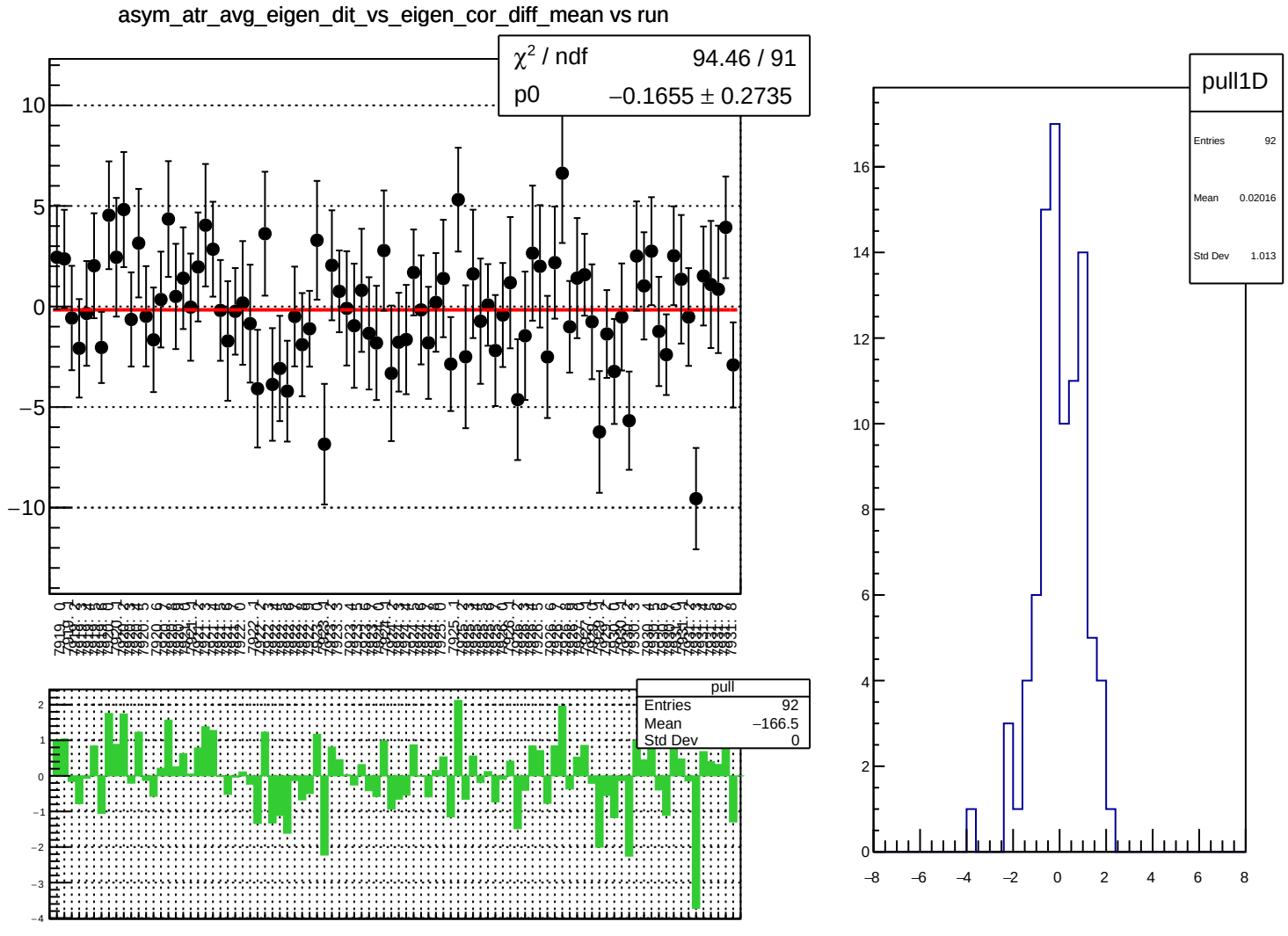

asym_atr_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.137e+04 / 91
p0 256.7 ± 0.1934
340
320
300
280
260
240
220
200
180

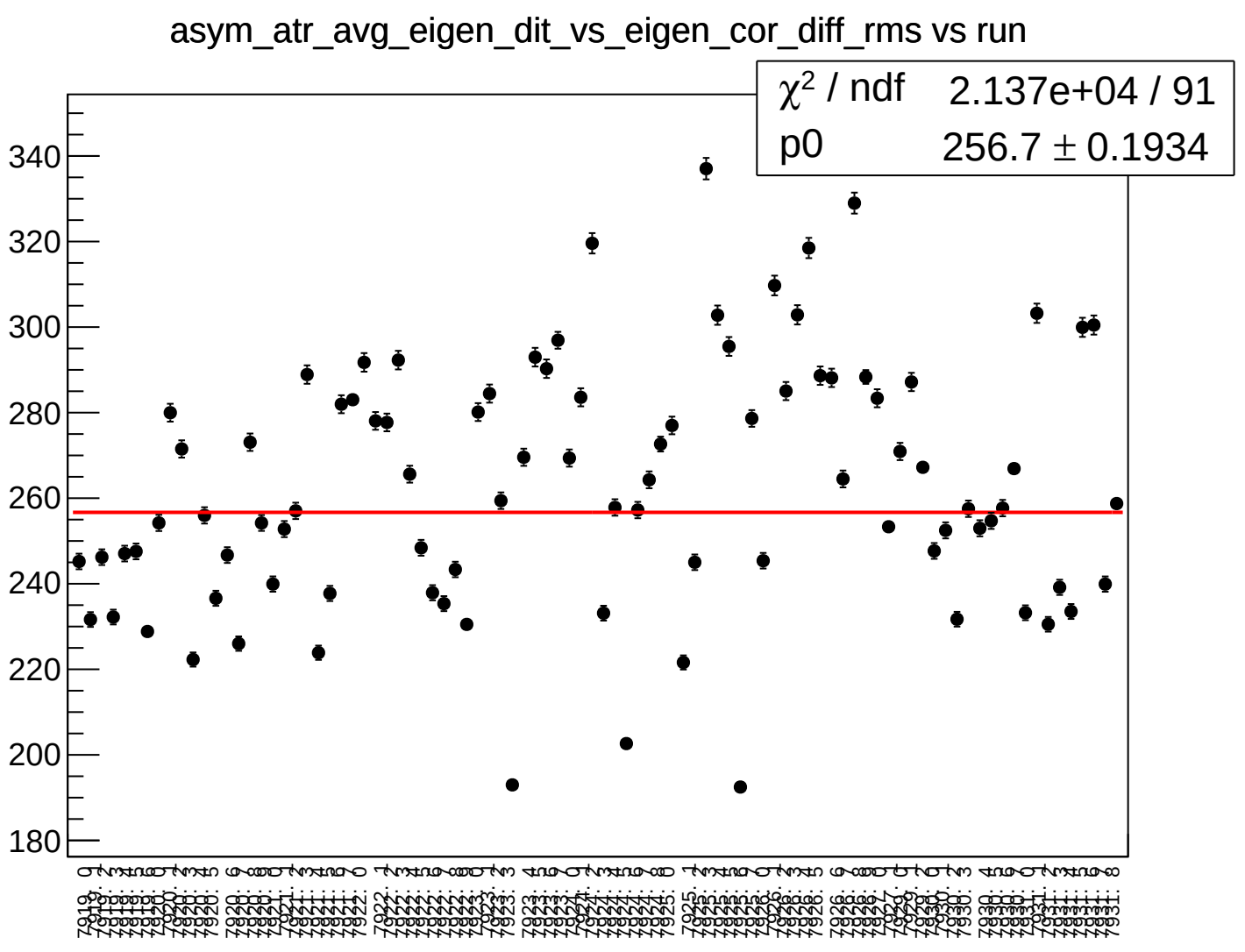

asym_atr_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.56 / 91
p0 1.933e−05 ± 2.29e−05
pull
Entries 92
Mean −1234
Std Dev 0
pull1D
Entries 92
Mean −0.002732
Std Dev 0.9756

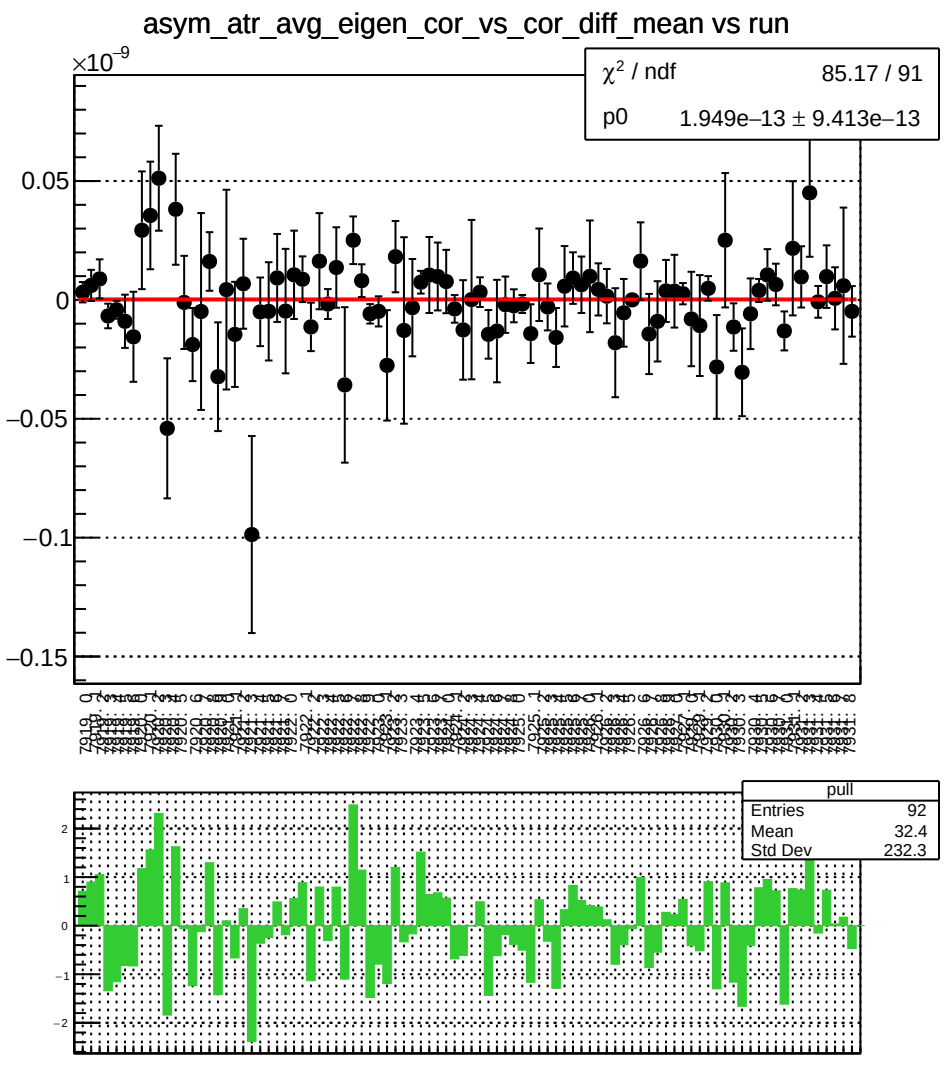

asym_atr_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1502 / 91
p0 0.02161 ± 1.619e−05
0.026
0.025
0.024
0.023
0.022
0.021
0.02

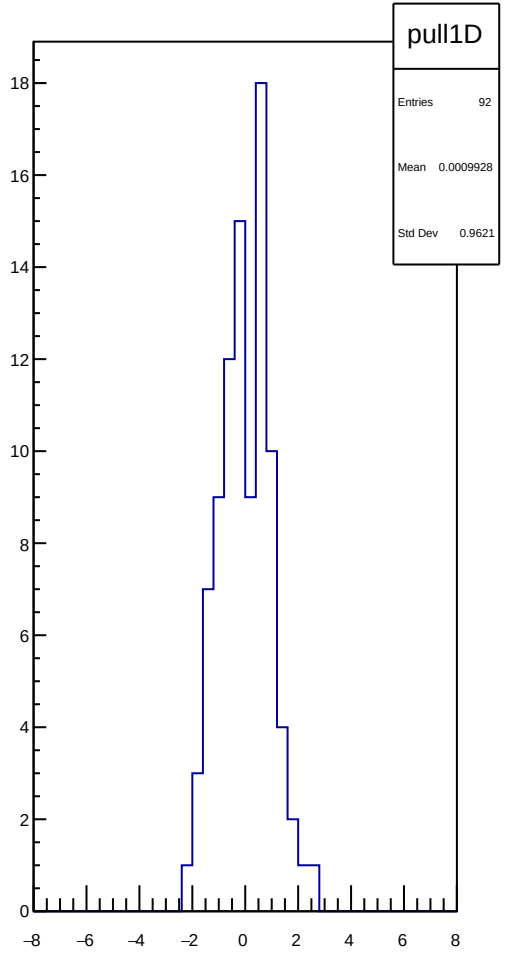

asym_atr_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.46 / 91
p0 −0.1655 ± 0.2735
pull
Entries 92
Mean −166.5
Std Dev 0
pull1D
Entries 92
Mean 0.02016
Std Dev 1.013

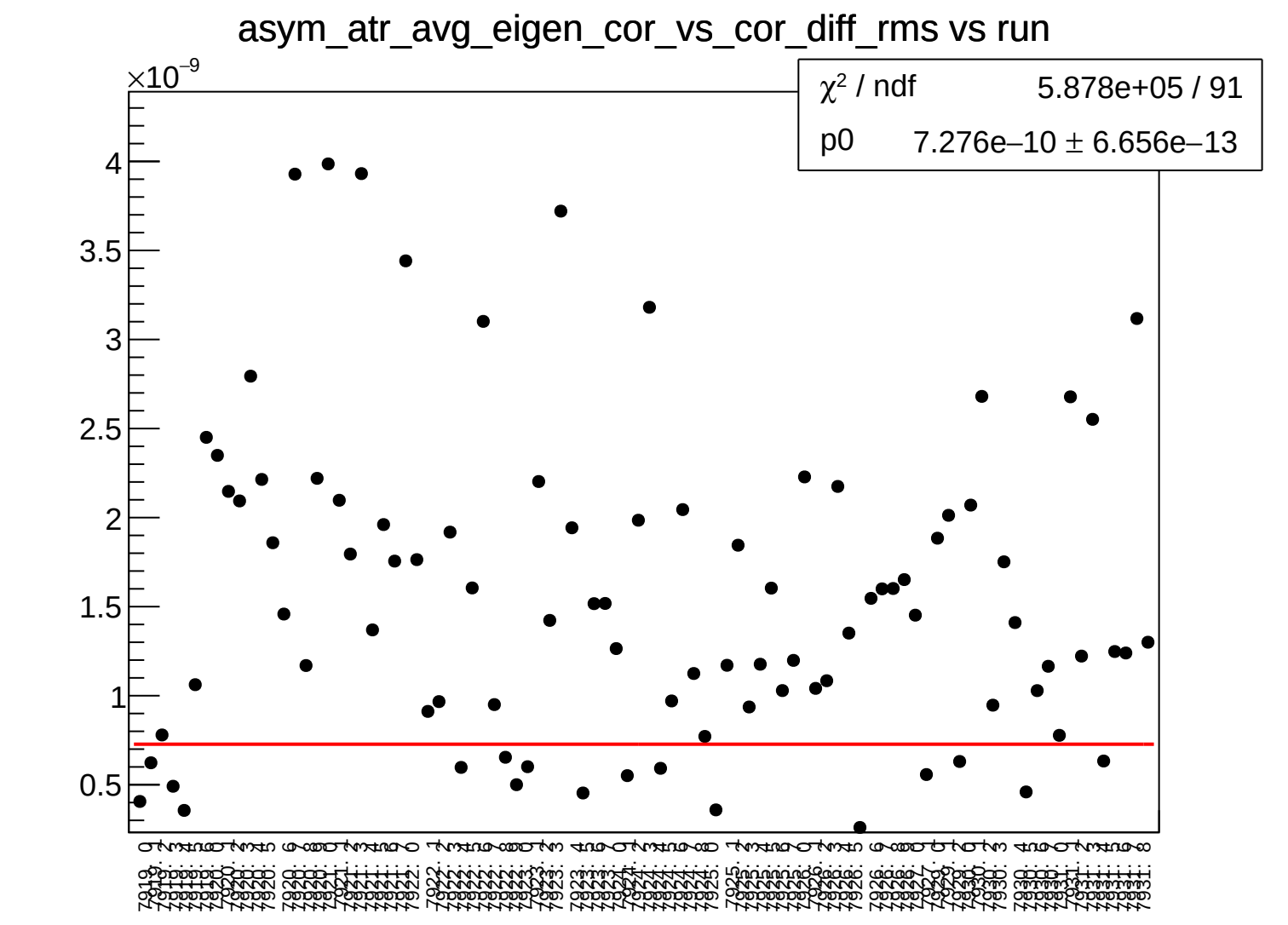

asym_atr_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.137e+04 / 91
p0 256.7 ± 0.1934
340
320
300
280
260
240
220
200
180

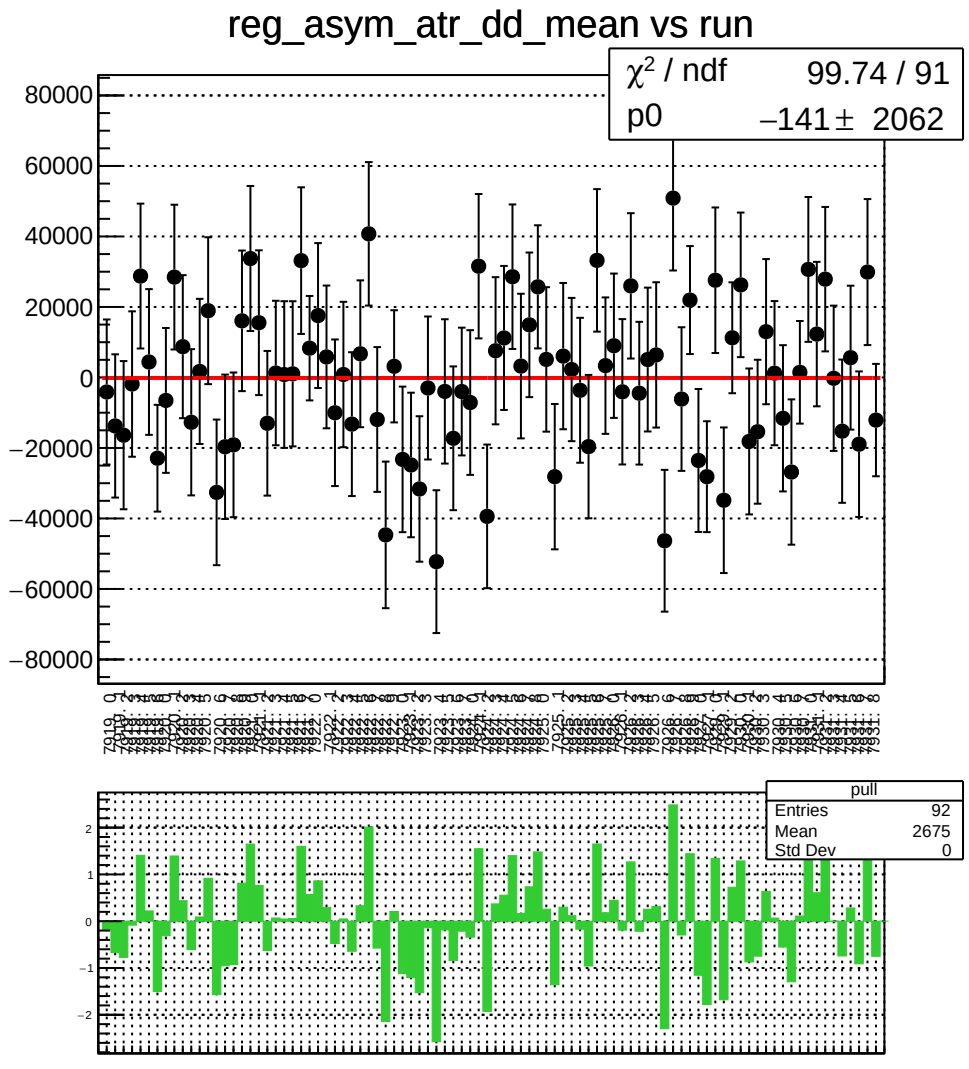

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.46 / 91
p0 −0.1655 ± 0.2735
pull
Entries 92
Mean −166.5
Std Dev 0
pull1D
Entries 92
Mean 0.02016
Std Dev 1.013

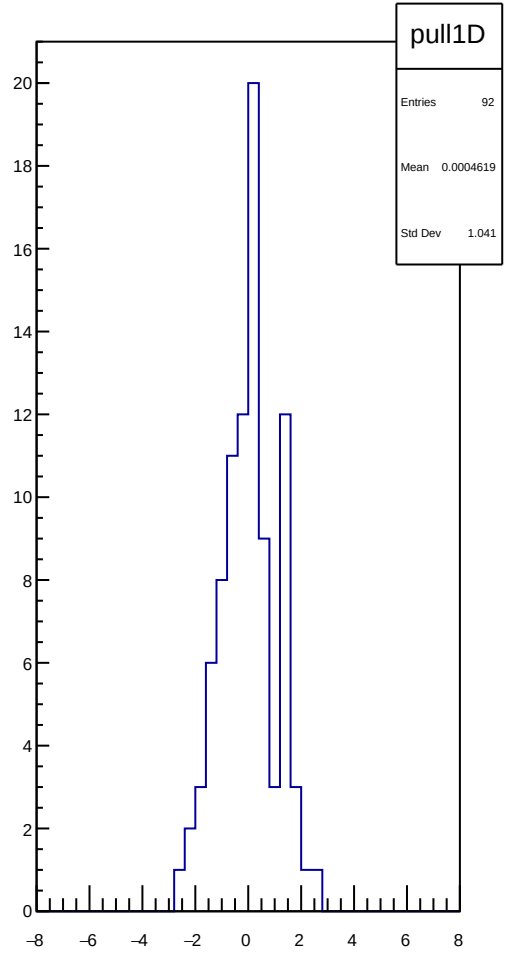

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.137e+04 / 91
p0 256.7 ± 0.1934
340
320
300
280
260
240
220
200
180

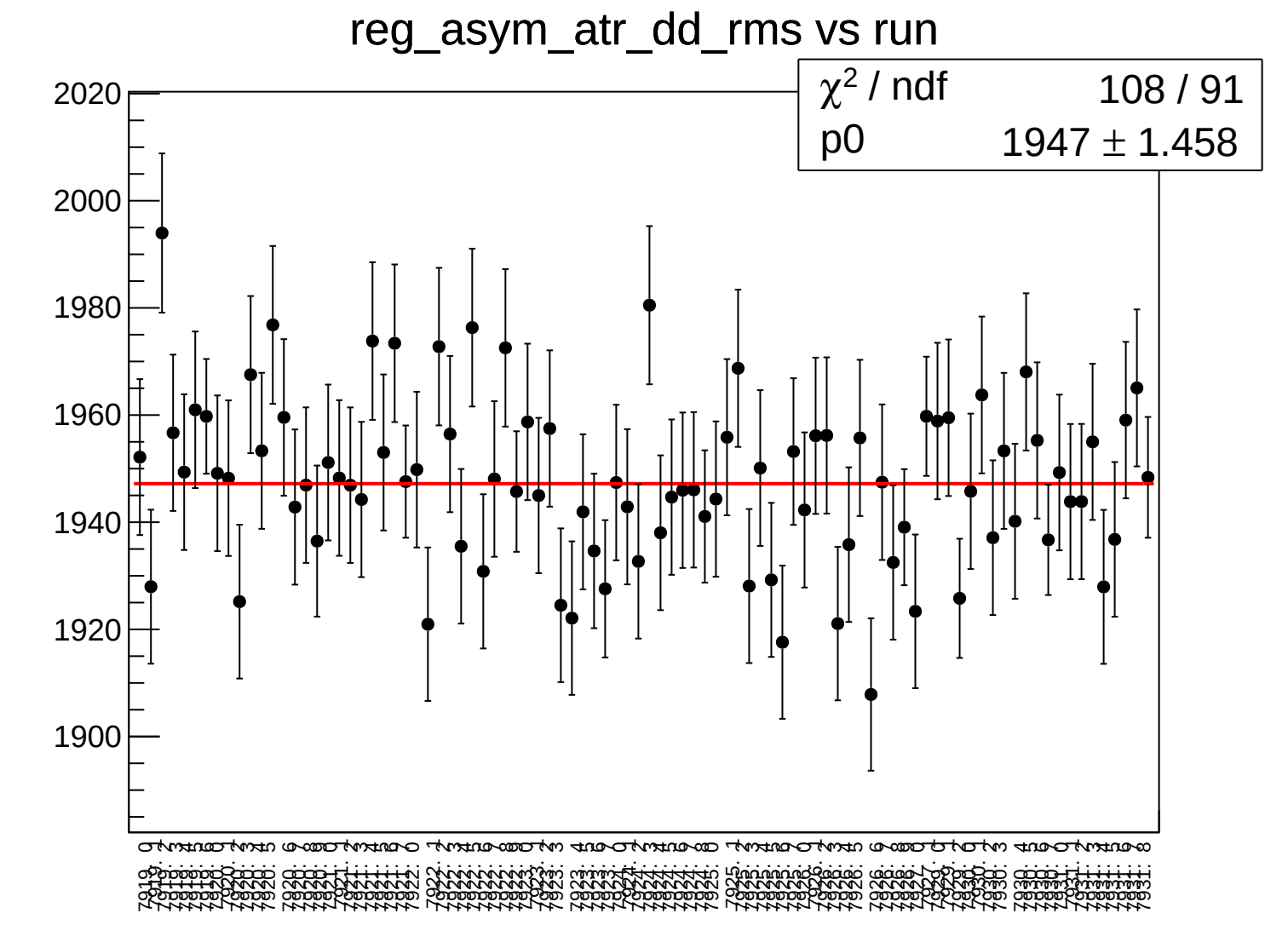

asym_atr_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 85.17 / 91
p0 1.949e−13 ± 9.413e−13
0.05
0
−0.05
−0.1
−0.15
pull
Entries 92
Mean 32.4
Std Dev 232.3
2
1
0
−1
−2

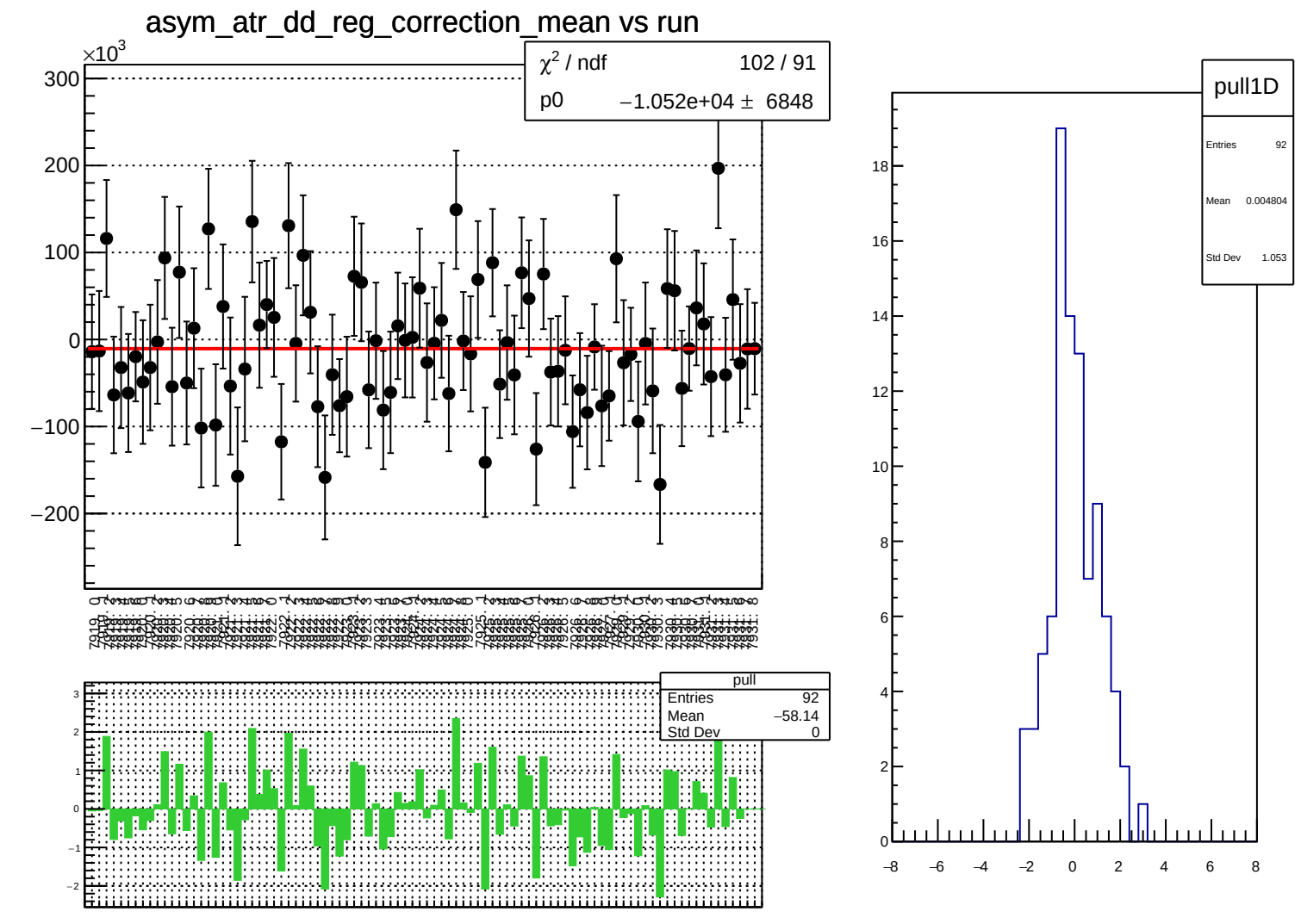

pull1D
Entries 92
Mean 0.0009928
Std Dev 0.9621
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

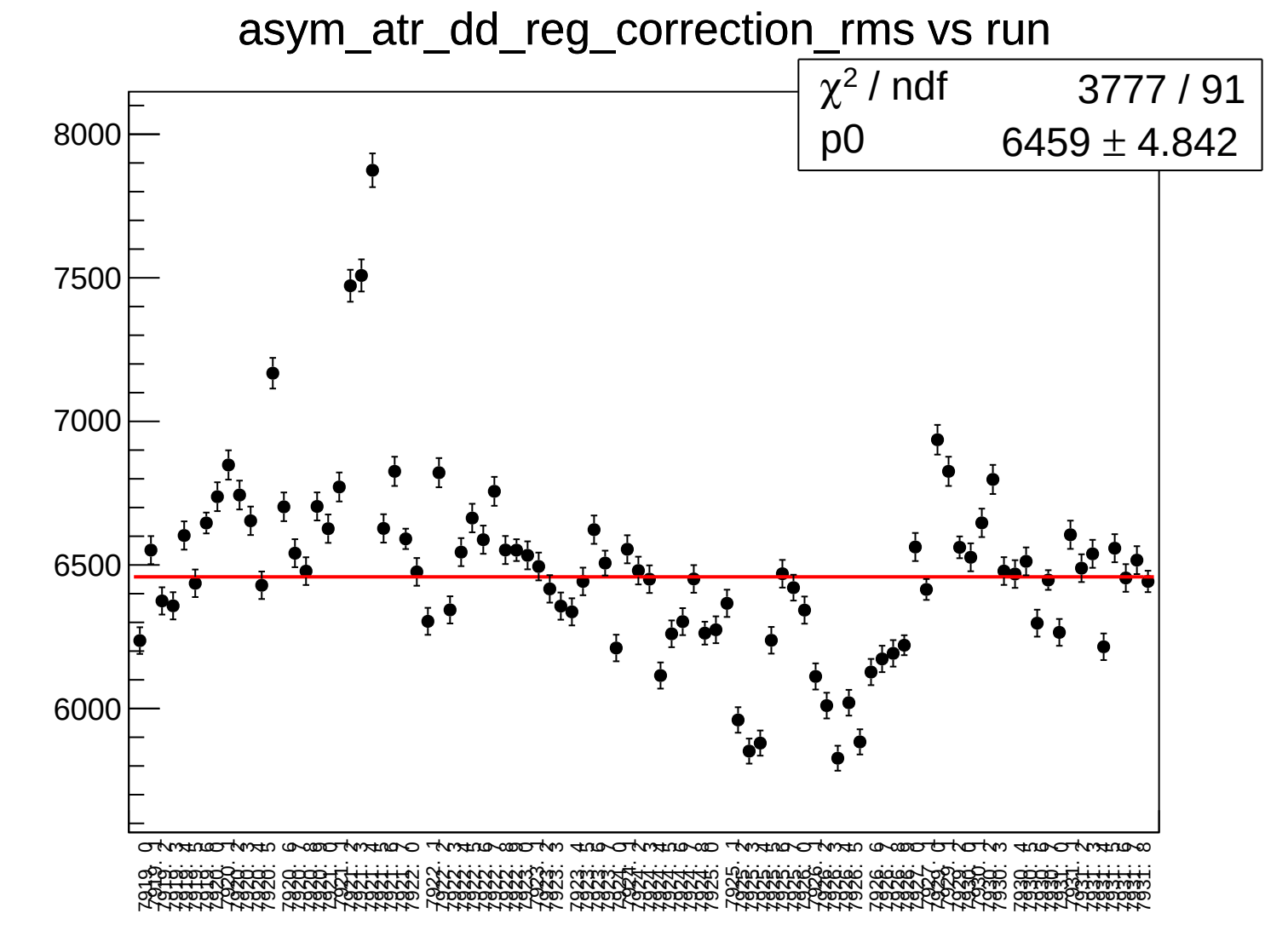

asym_atr_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.878e+05 / 91
p0 7.276e−10 ± 6.656e−13
4
3.5
3
2.5
2
1.5
1
0.5

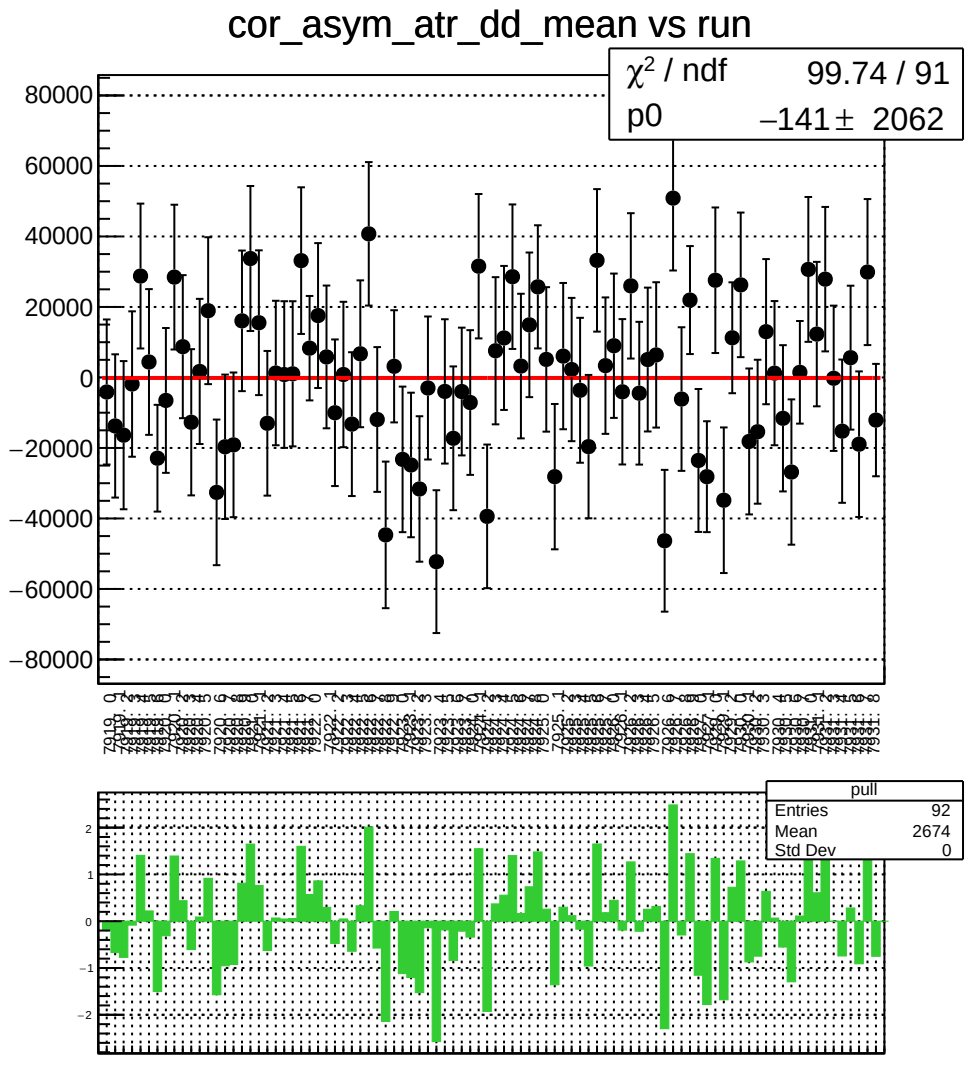

reg_asym_atr_dd_mean vs run
χ² / ndf 99.74 / 91
p0 −141 ± 2062
pull
Entries 92
Mean 2675
Std Dev 0

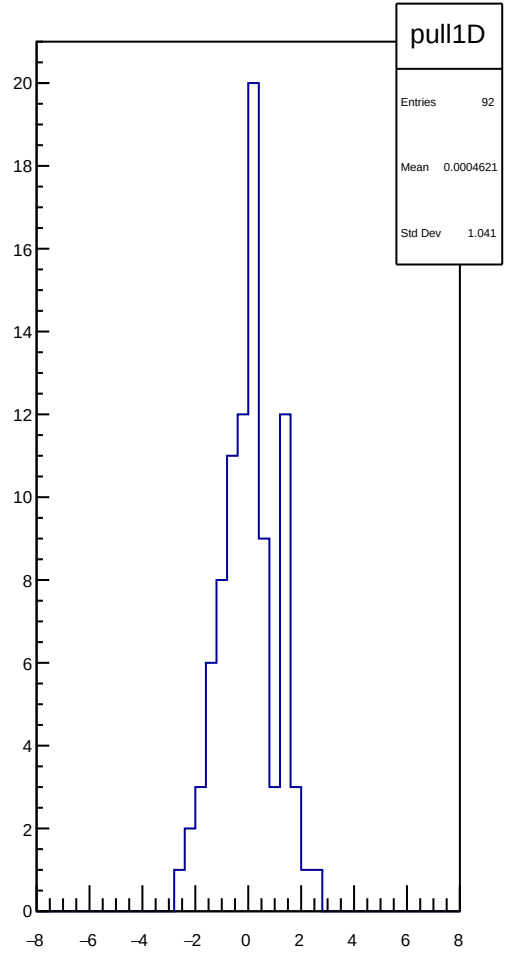

pull1D
Entries 92
Mean 0.0004619
Std Dev 1.041

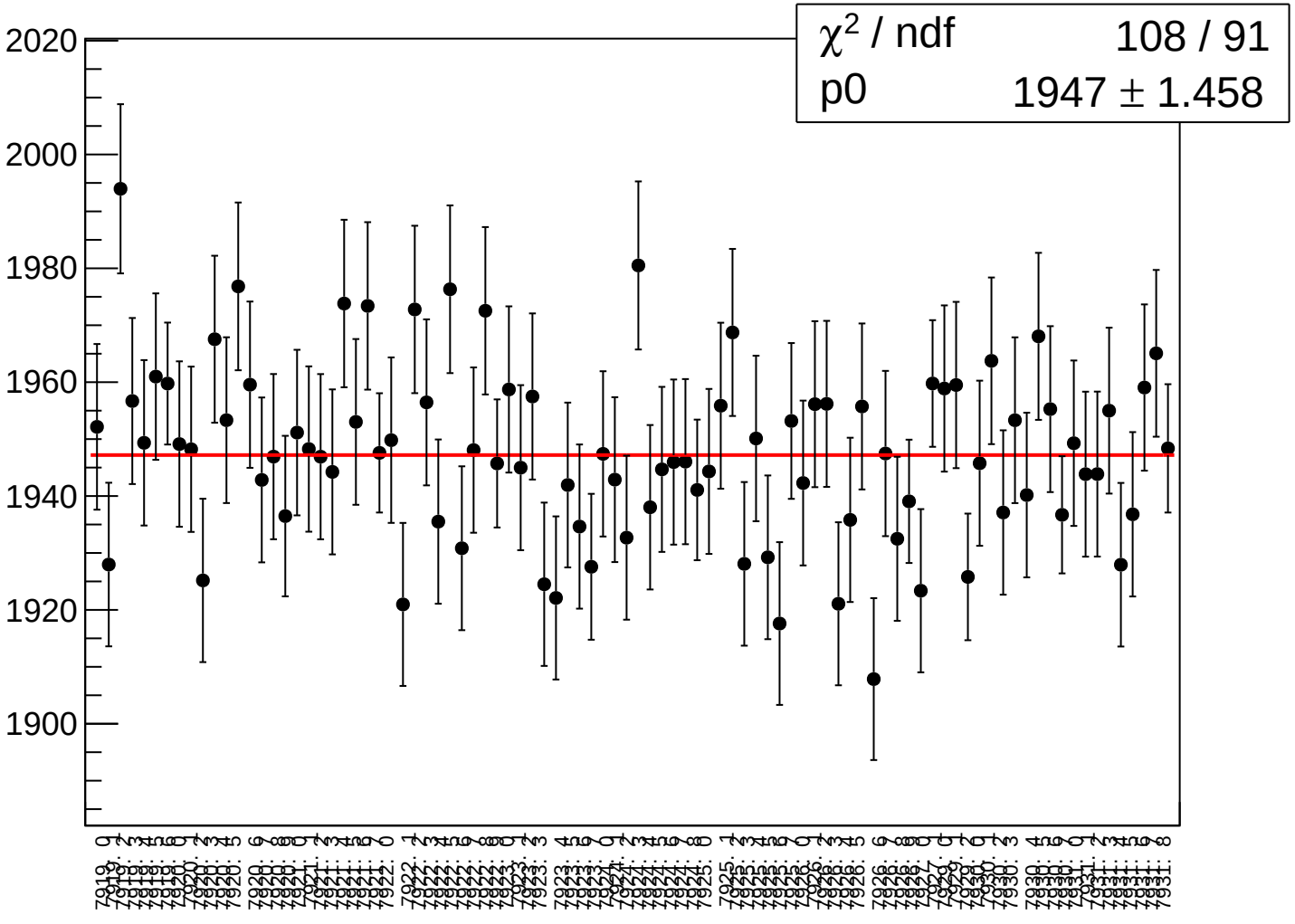

reg_asym_atr_dd_rms vs run
χ^2 / ndf 108 / 91
p0 1947 ± 1.458
2020
2000
1980
1960
1940
1920
1900

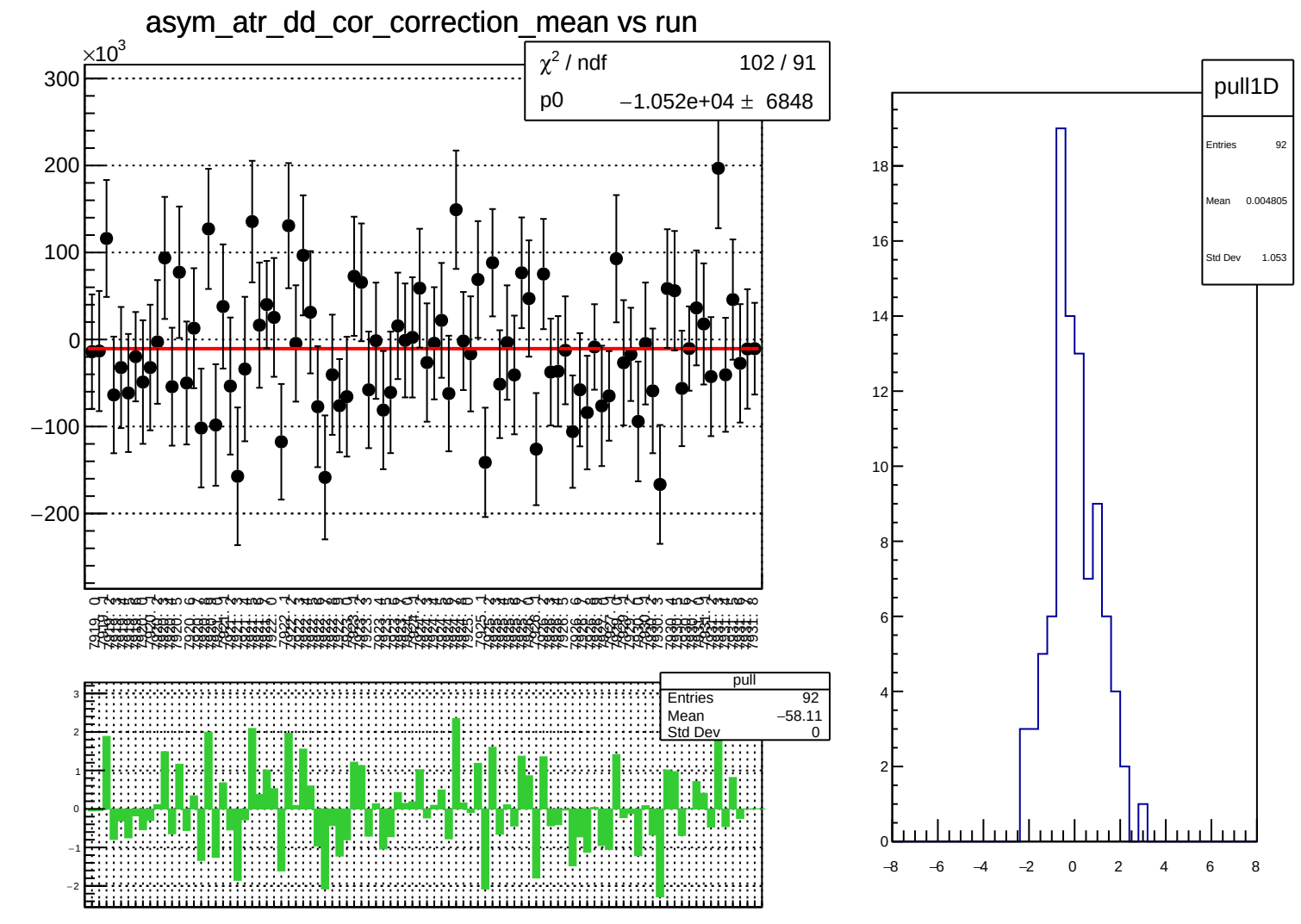

asym_atr_dd_reg_correction_mean vs run
×10^3
χ² / ndf 102 / 91
p0 −1.052e+04 ± 6848
pull
Entries 92
Mean −58.14
Std Dev 0
pull1D
Entries 92
Mean 0.004804
Std Dev 1.053

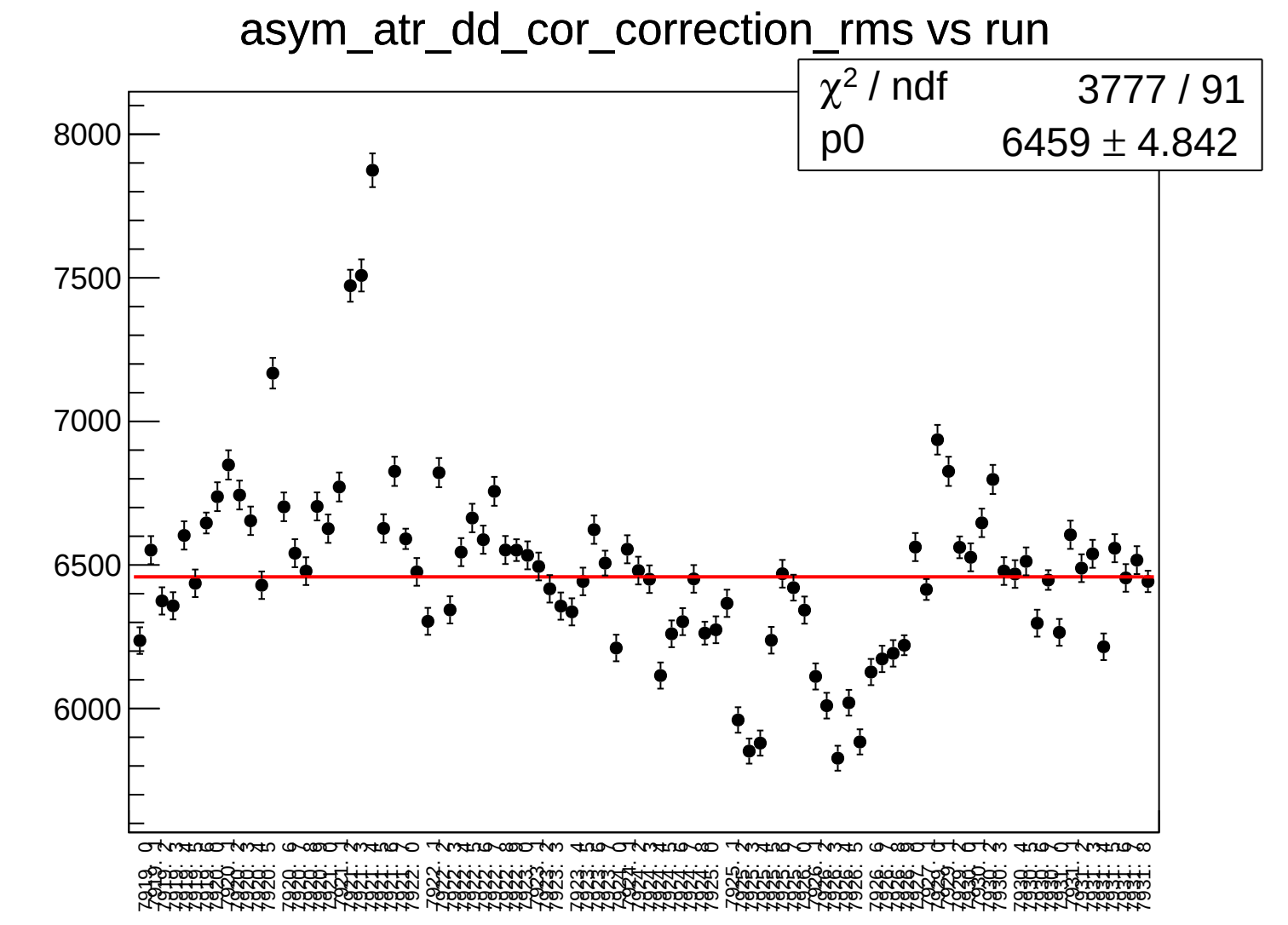

asym_atr_dd_reg_correction_rms vs run
χ² / ndf 3777 / 91
p0 6459 ± 4.842
8000
7500
7000
6500
6000

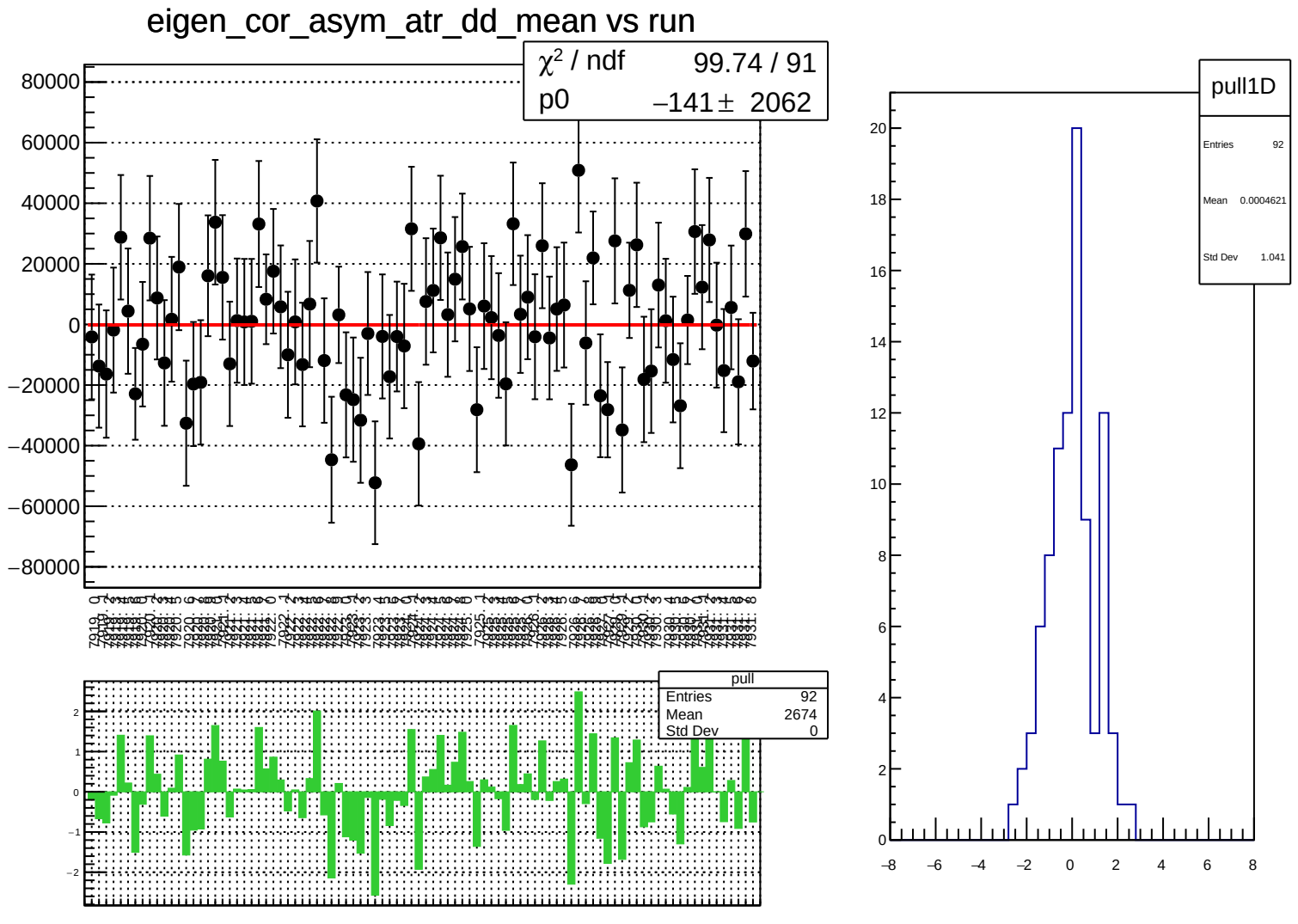

cor_asym_atr_dd_mean vs run
χ² / ndf 99.74 / 91
p0 −141 ± 2062
pull
Entries 92
Mean 2674
Std Dev 0

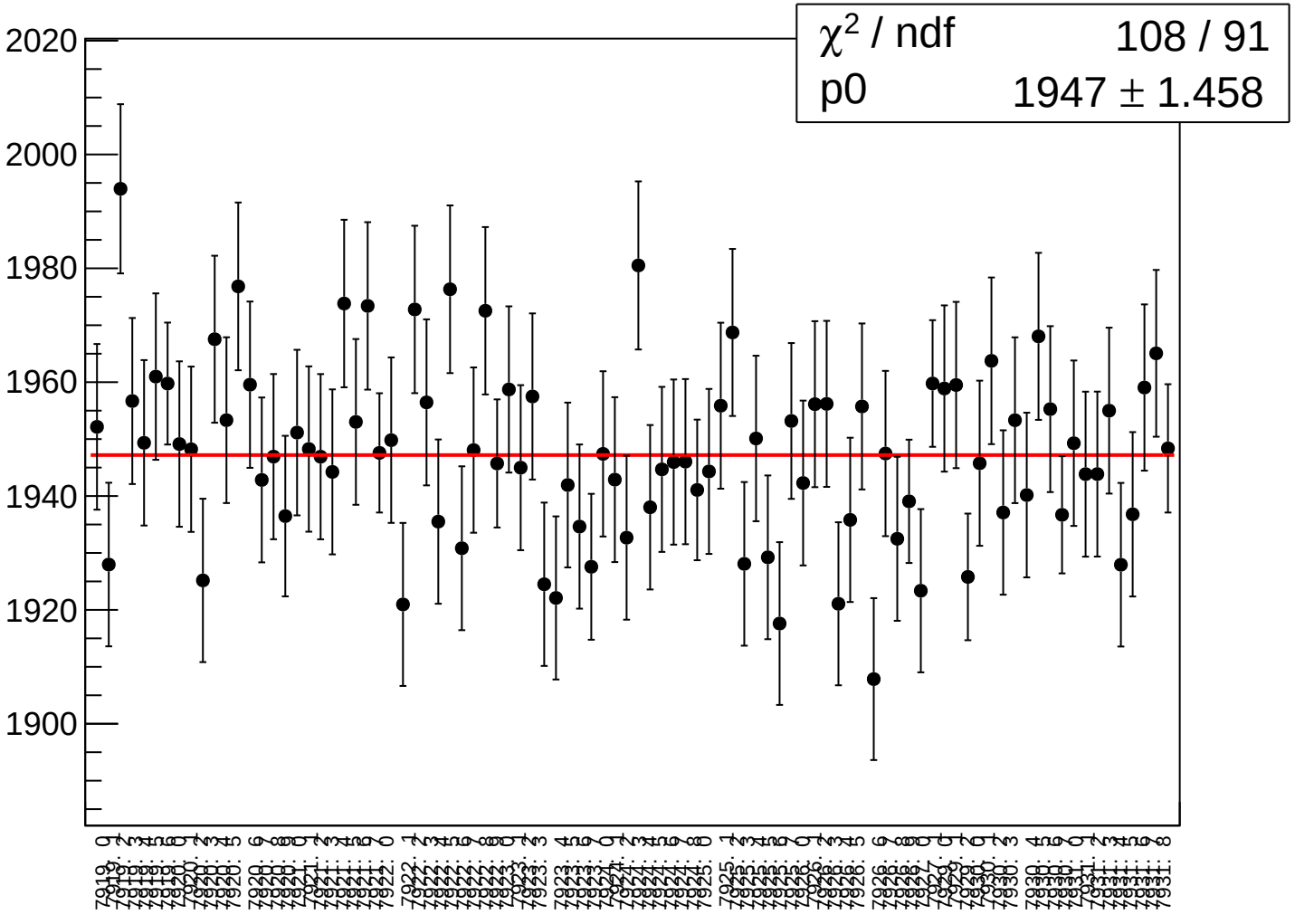

pull1D
Entries 92
Mean 0.0004621
Std Dev 1.041

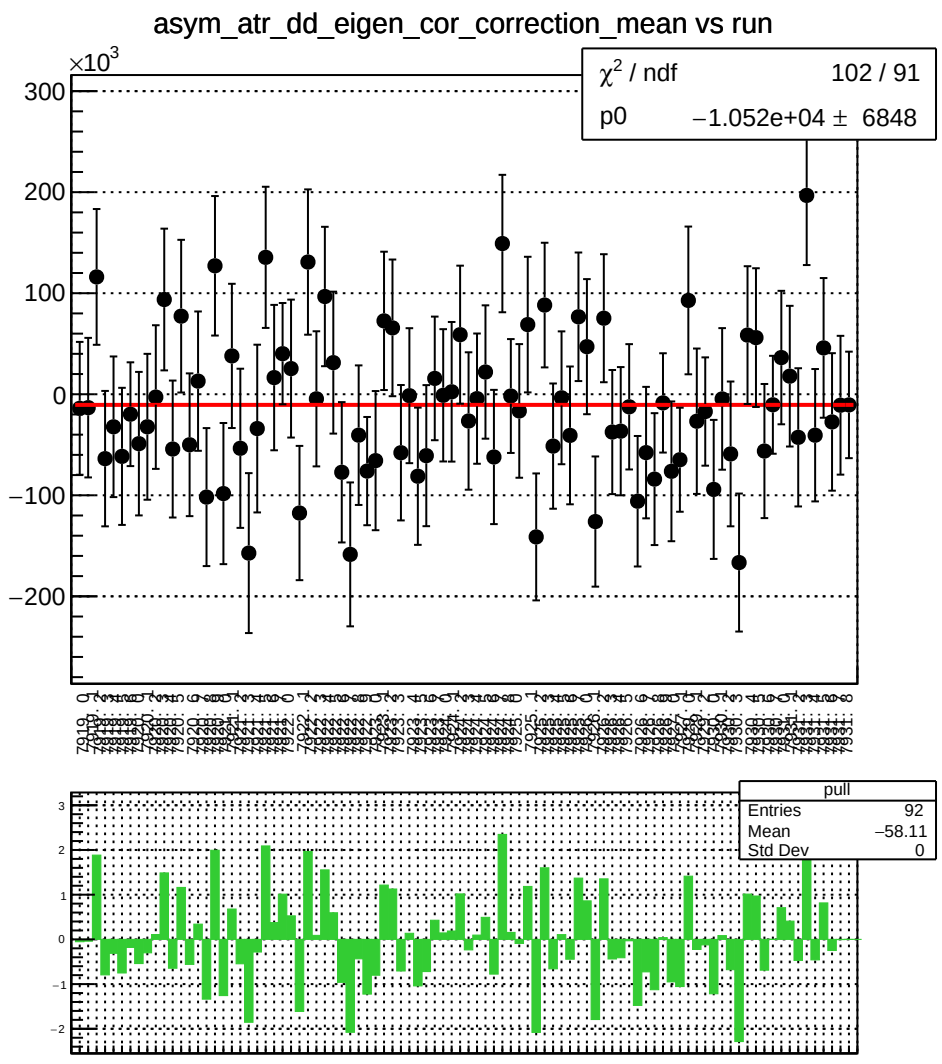

cor_asym_atr_dd_rms vs run
χ² / ndf 108 / 91
p0 1947 ± 1.458
2020
2000
1980
1960
1940
1920
1900

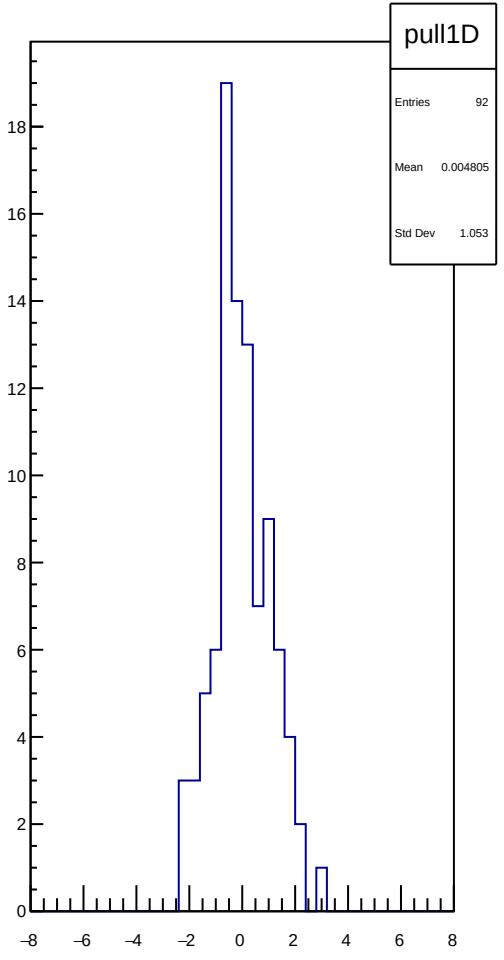

asym_atr_dd_cor_correction_mean vs run
×10^3
χ² / ndf 102 / 91
p0 −1.052e+04 ± 6848
300
200
100
0
−100
−200
pull
Entries 92
Mean −58.11
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.004805
Std Dev 1.053
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

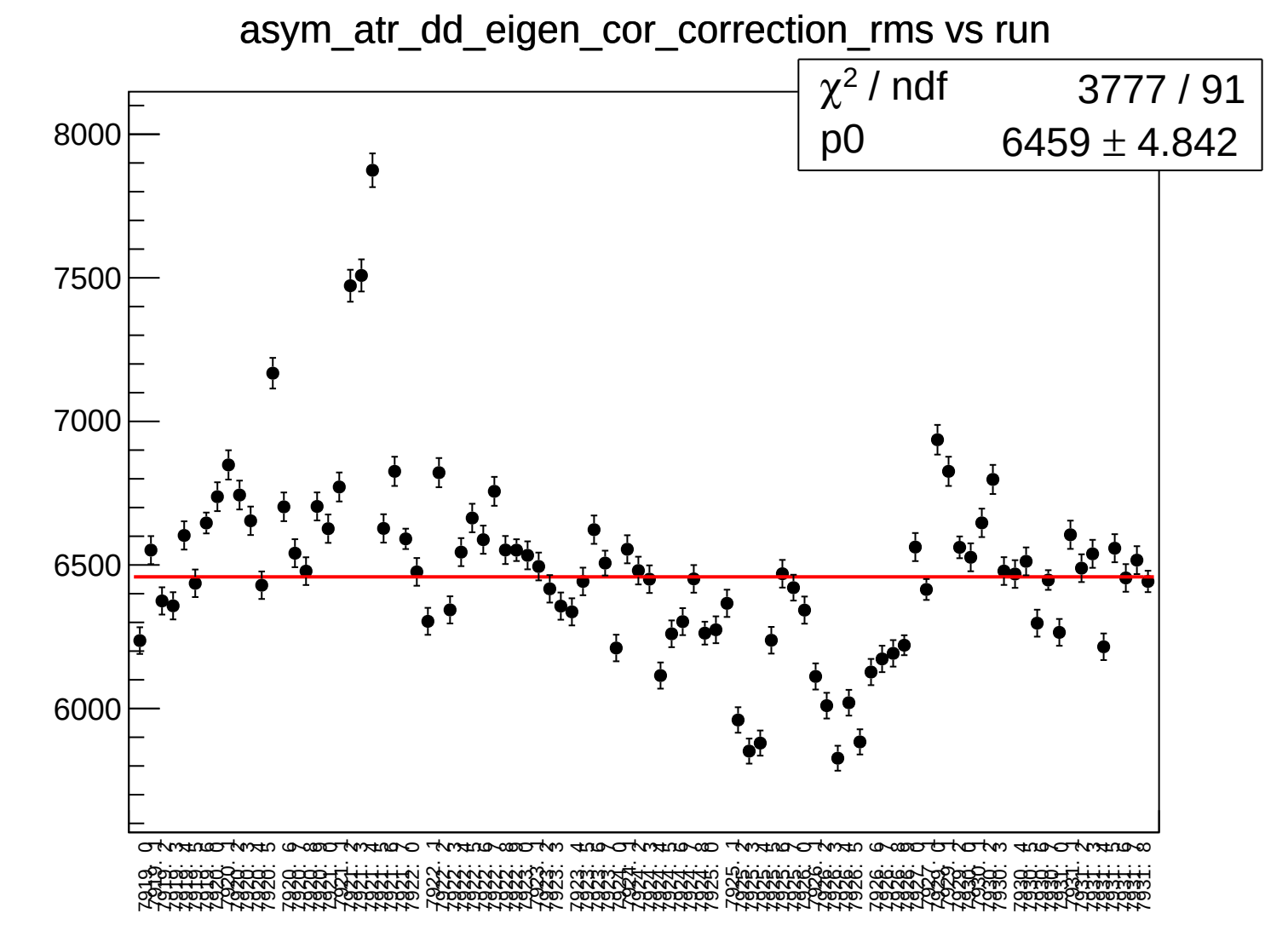

asym_atr_dd_cor_correction_rms vs run
χ² / ndf 3777 / 91
p0 6459 ± 4.842
8000
7500
7000
6500
6000

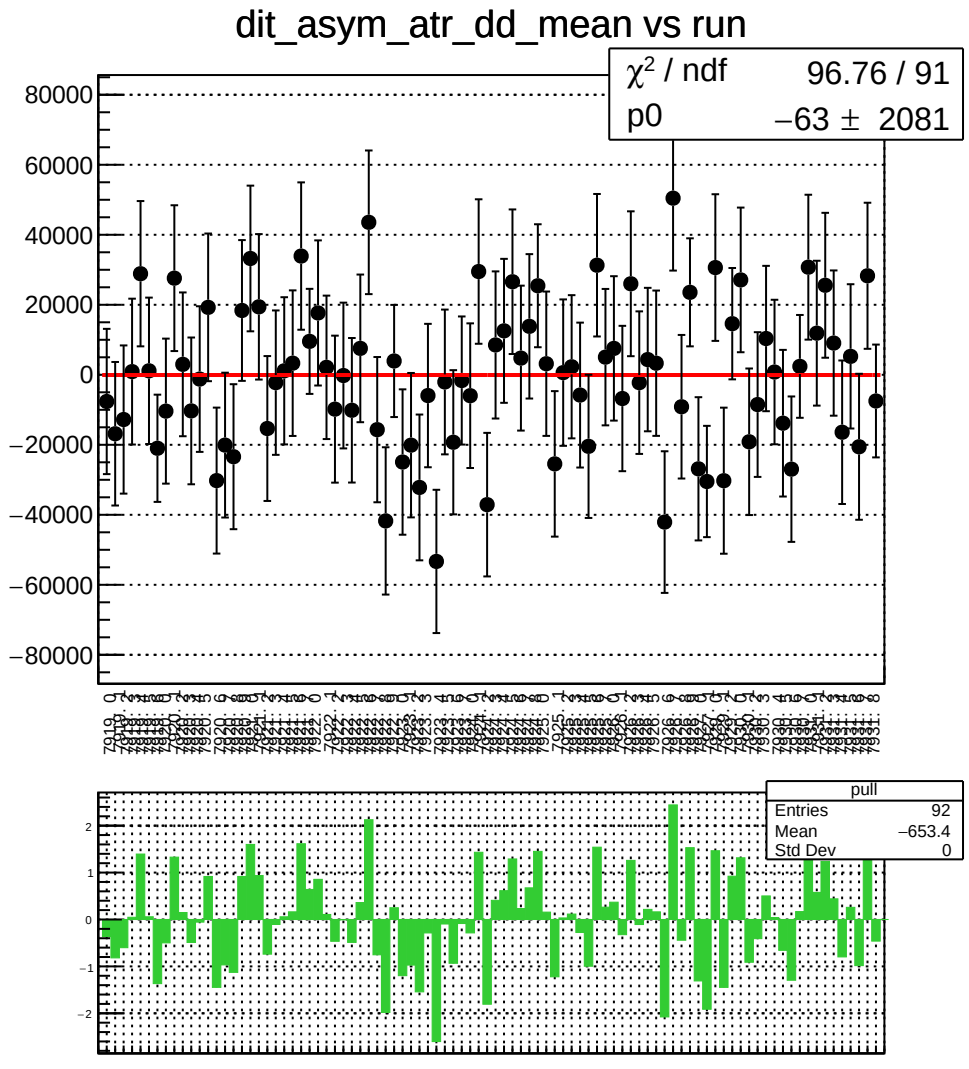

eigen_cor_asym_atr_dd_mean vs run
χ² / ndf 99.74 / 91
p0 −141 ± 2062
pull
Entries 92
Mean 2674
Std Dev 0
pull1D
Entries 92
Mean 0.0004621
Std Dev 1.041

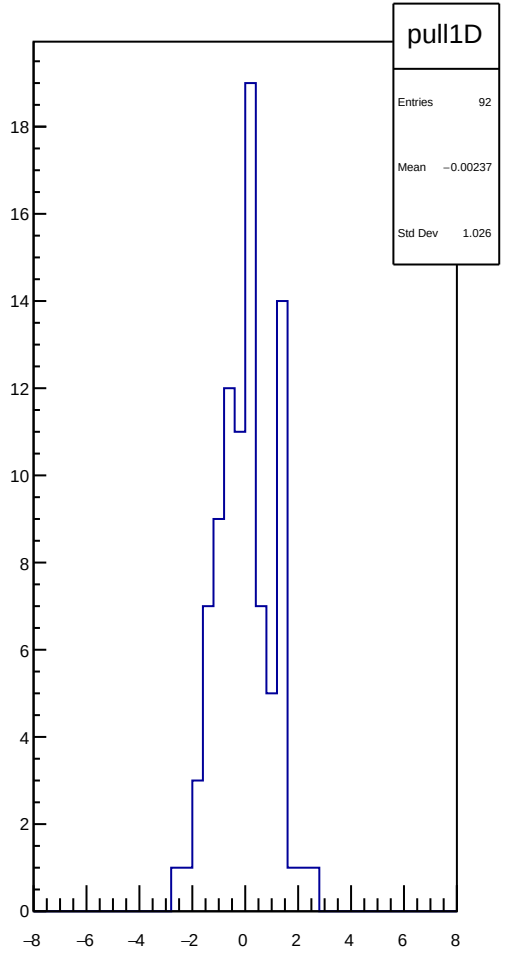

eigen_cor_asym_atr_dd_rms vs run
χ^2 / ndf 108 / 91
p0 1947 ± 1.458
2020
2000
1980
1960
1940
1920
1900

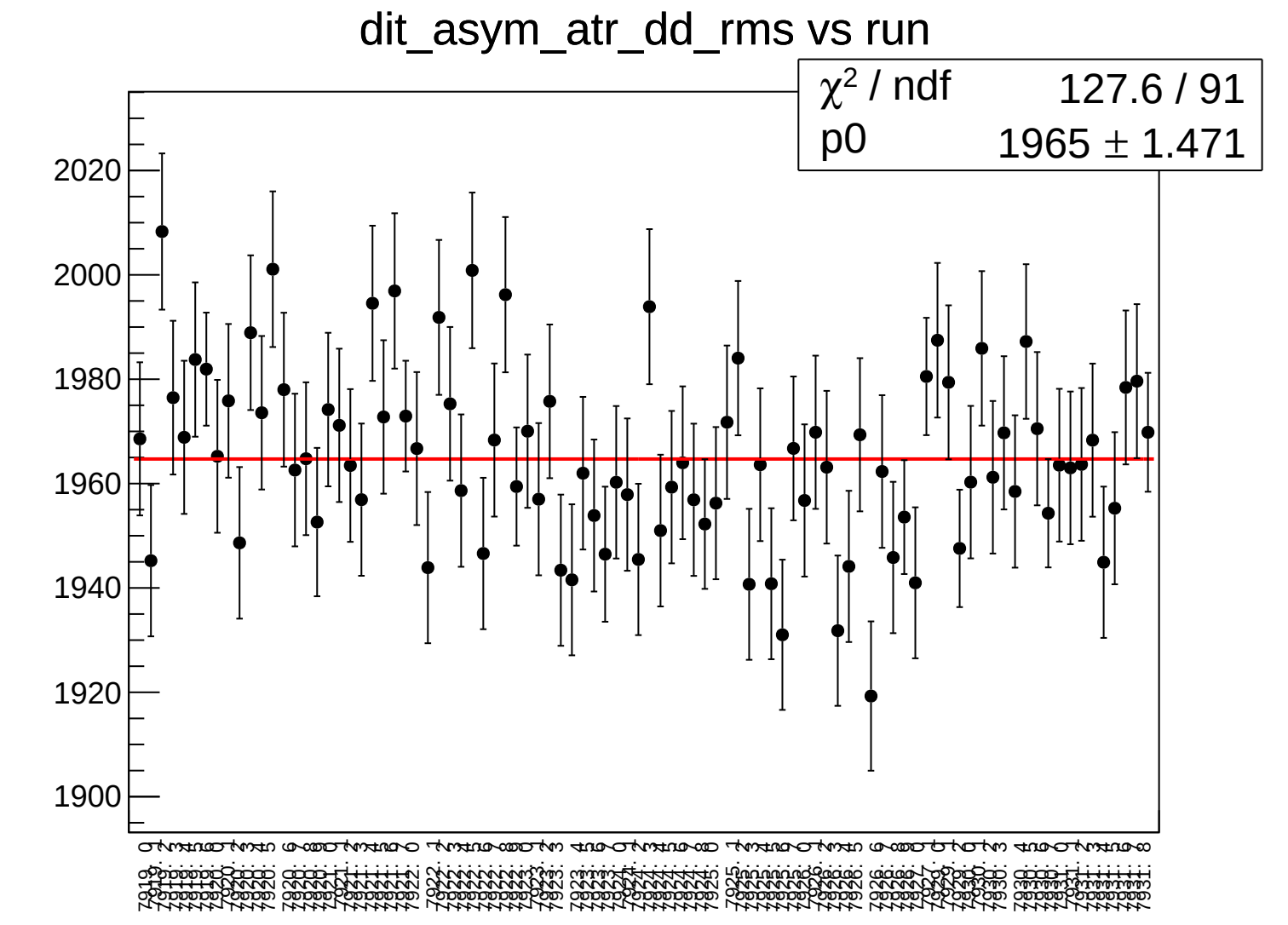

asym_atr_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 102 / 91
p0 −1.052e+04 ± 6848
pull
Entries 92
Mean −58.11
Std Dev 0

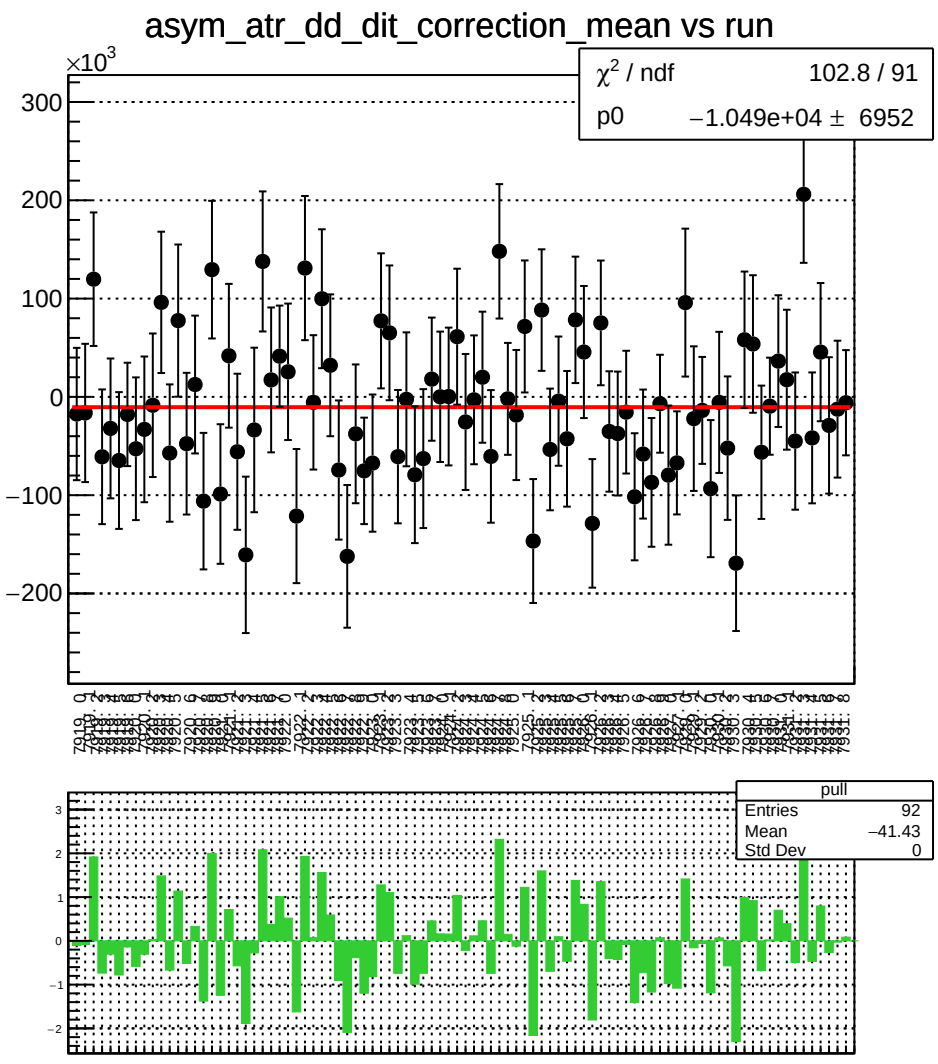

pull1D
Entries 92
Mean 0.004805
Std Dev 1.053

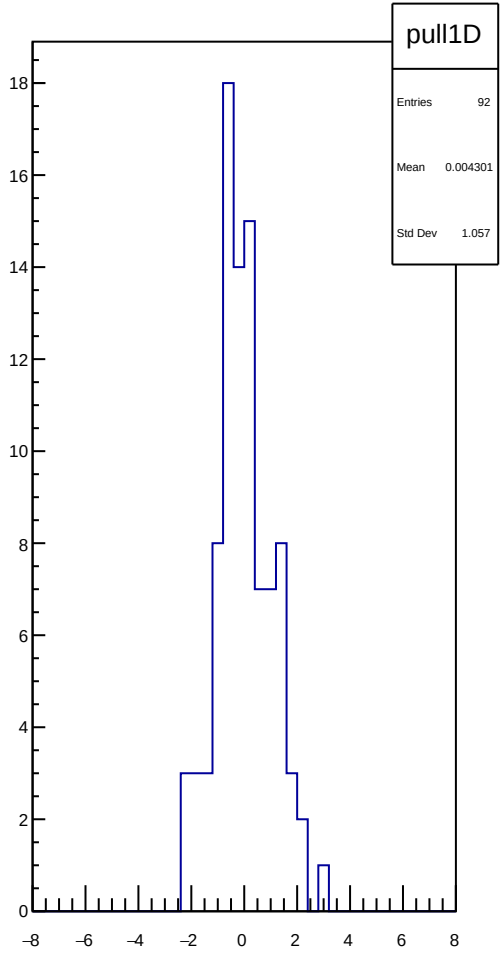

asym_atr_dd_eigen_cor_correction_rms vs run
χ² / ndf 3777 / 91
p0 6459 ± 4.842
8000
7500
7000
6500
6000

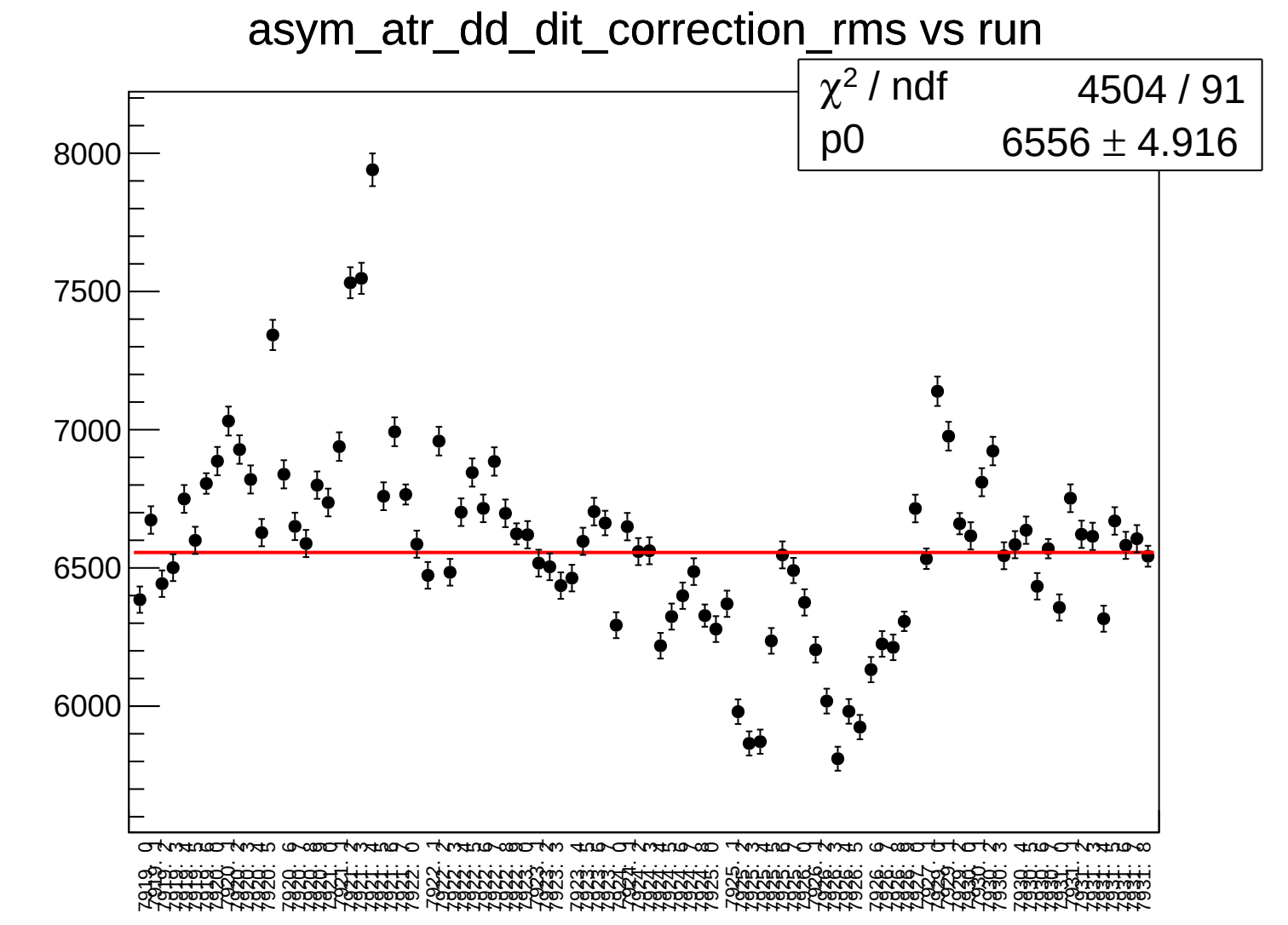

dit_asym_atr_dd_mean vs run
χ² / ndf 96.76 / 91
p0 −63 ± 2081
pull
Entries 92
Mean −653.4
Std Dev 0

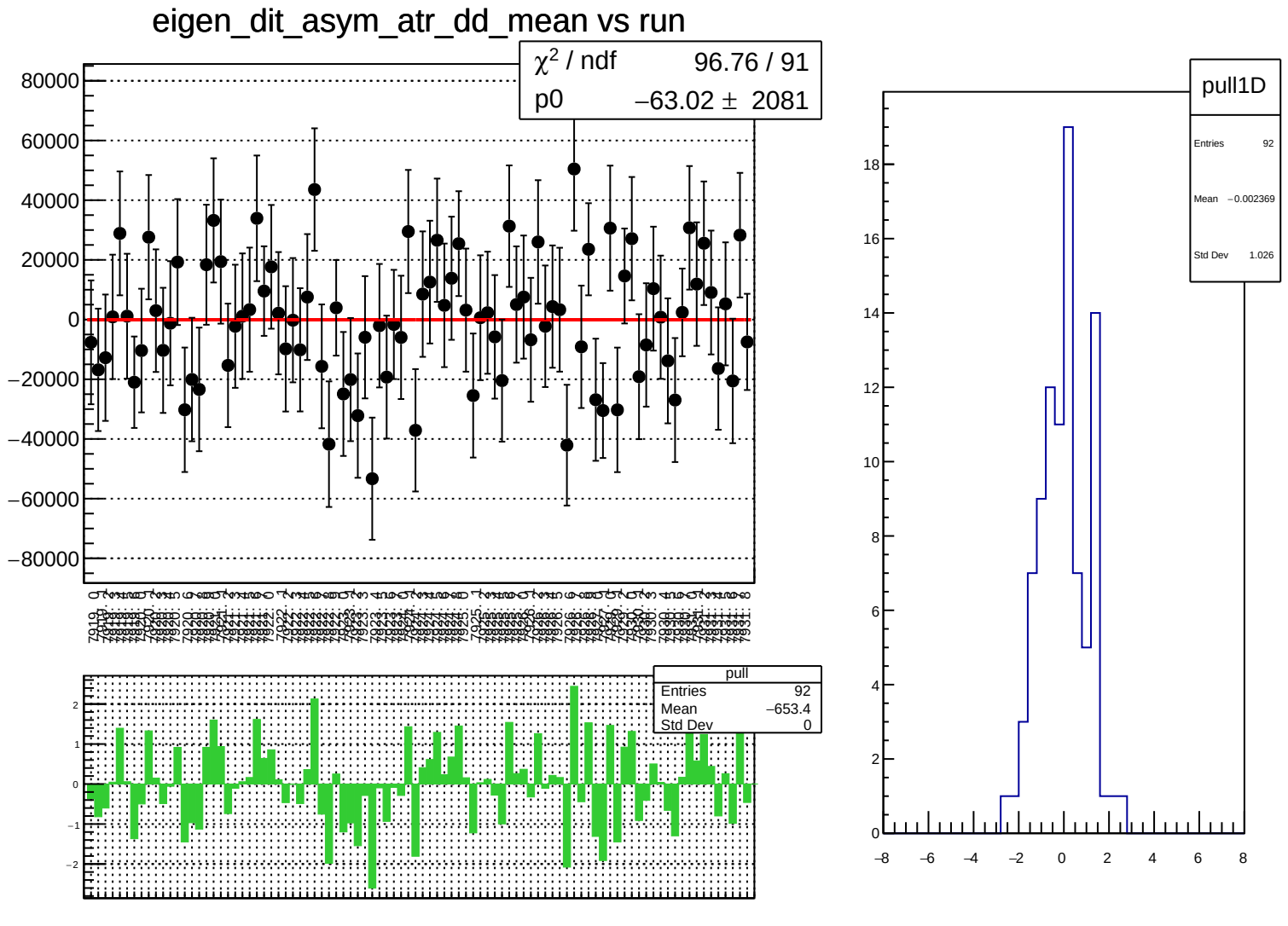

pull1D
Entries 92
Mean −0.00237
Std Dev 1.026

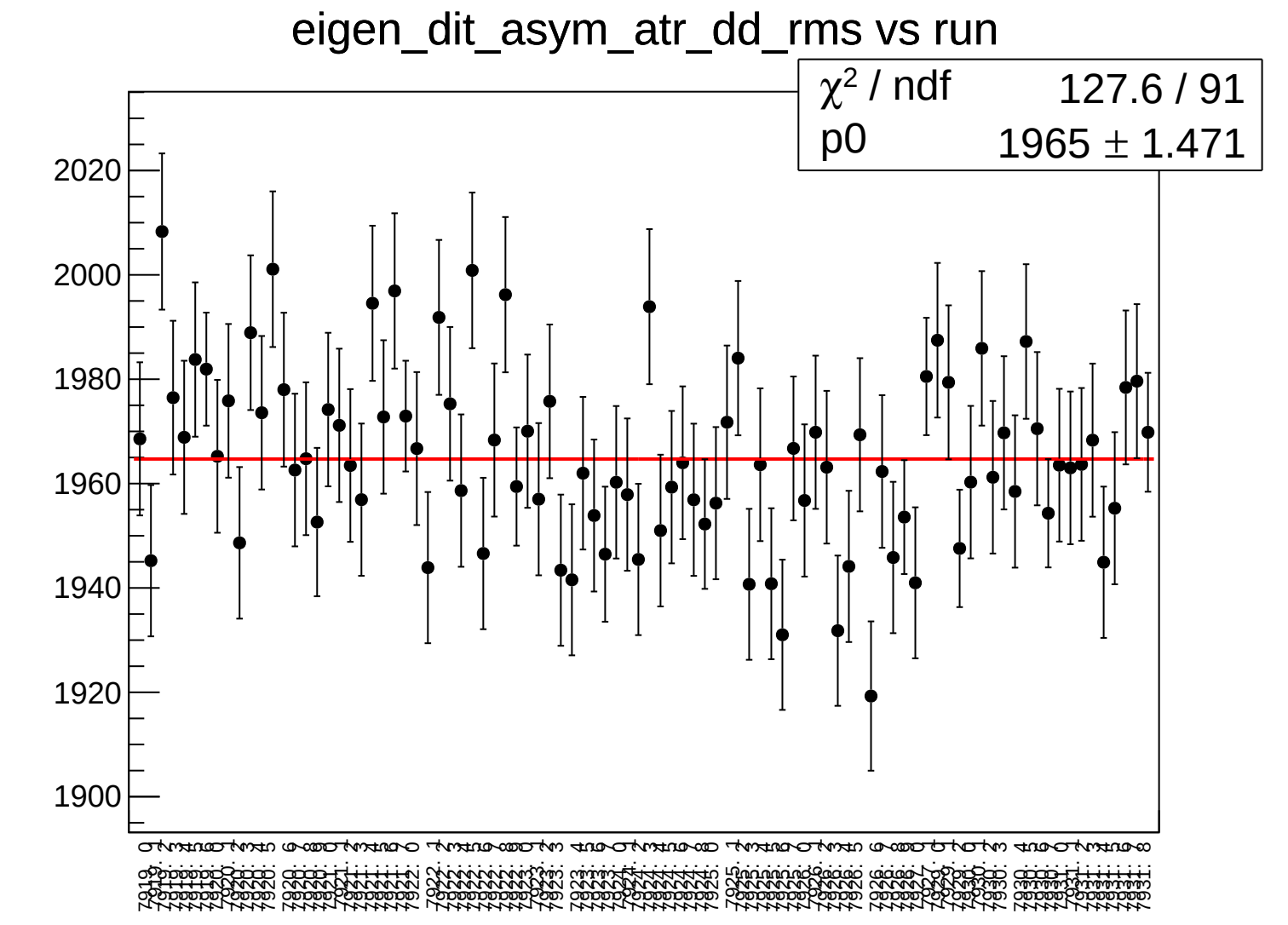

dit_asym_atr_dd_rms vs run
χ² / ndf 127.6 / 91
p0 1965 ± 1.471
2020
2000
1980
1960
1940
1920
1900

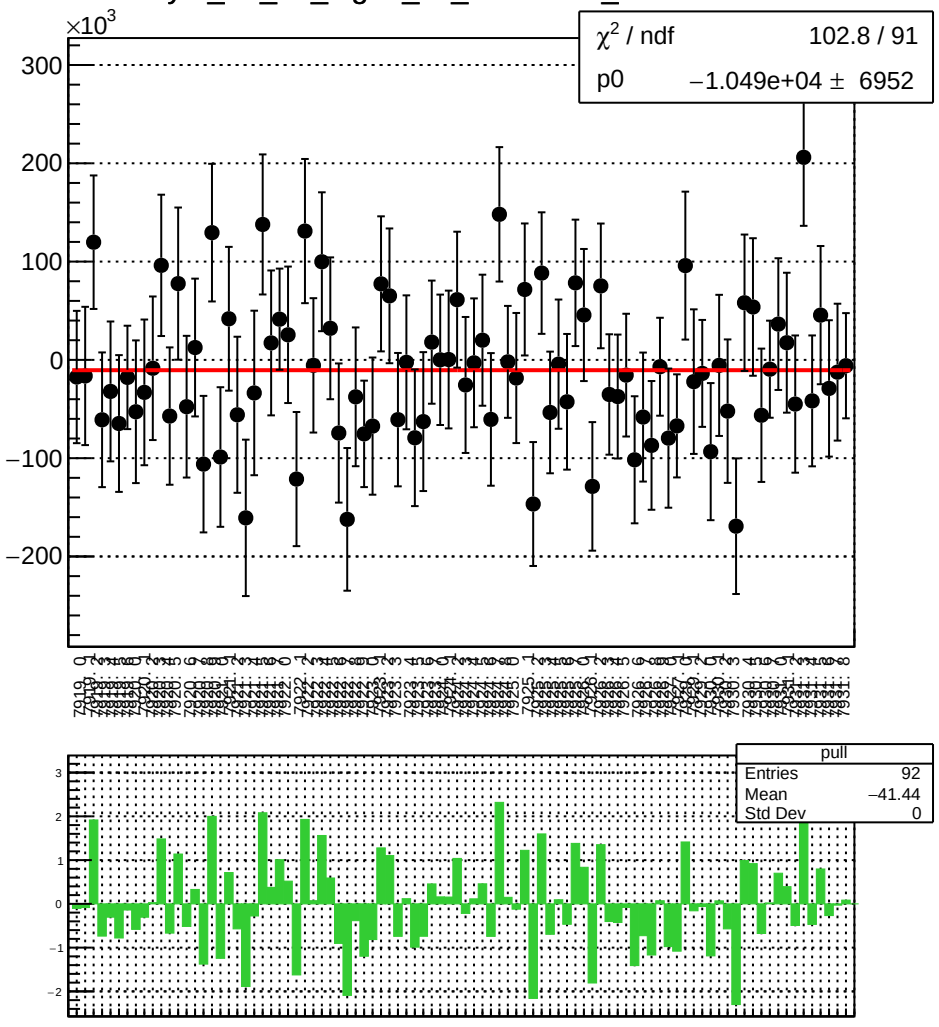

asym_atr_dd_dit_correction_mean vs run
×10^3
χ² / ndf 102.8 / 91
p0 −1.049e+04 ± 6952
300
200
100
0
−100
−200
pull
Entries 92
Mean −41.43
Std Dev 0
3
2
1
0
−1
−2

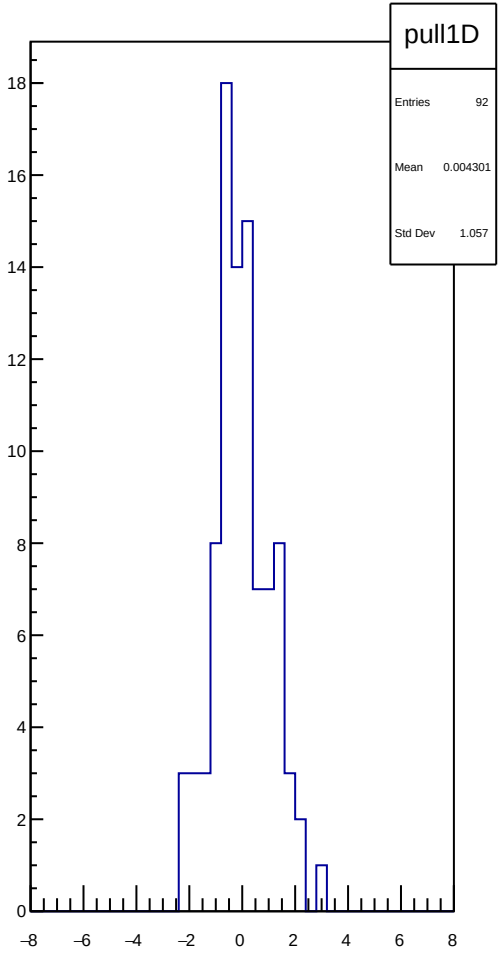

pull1D
Entries 92
Mean 0.004301
Std Dev 1.057
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

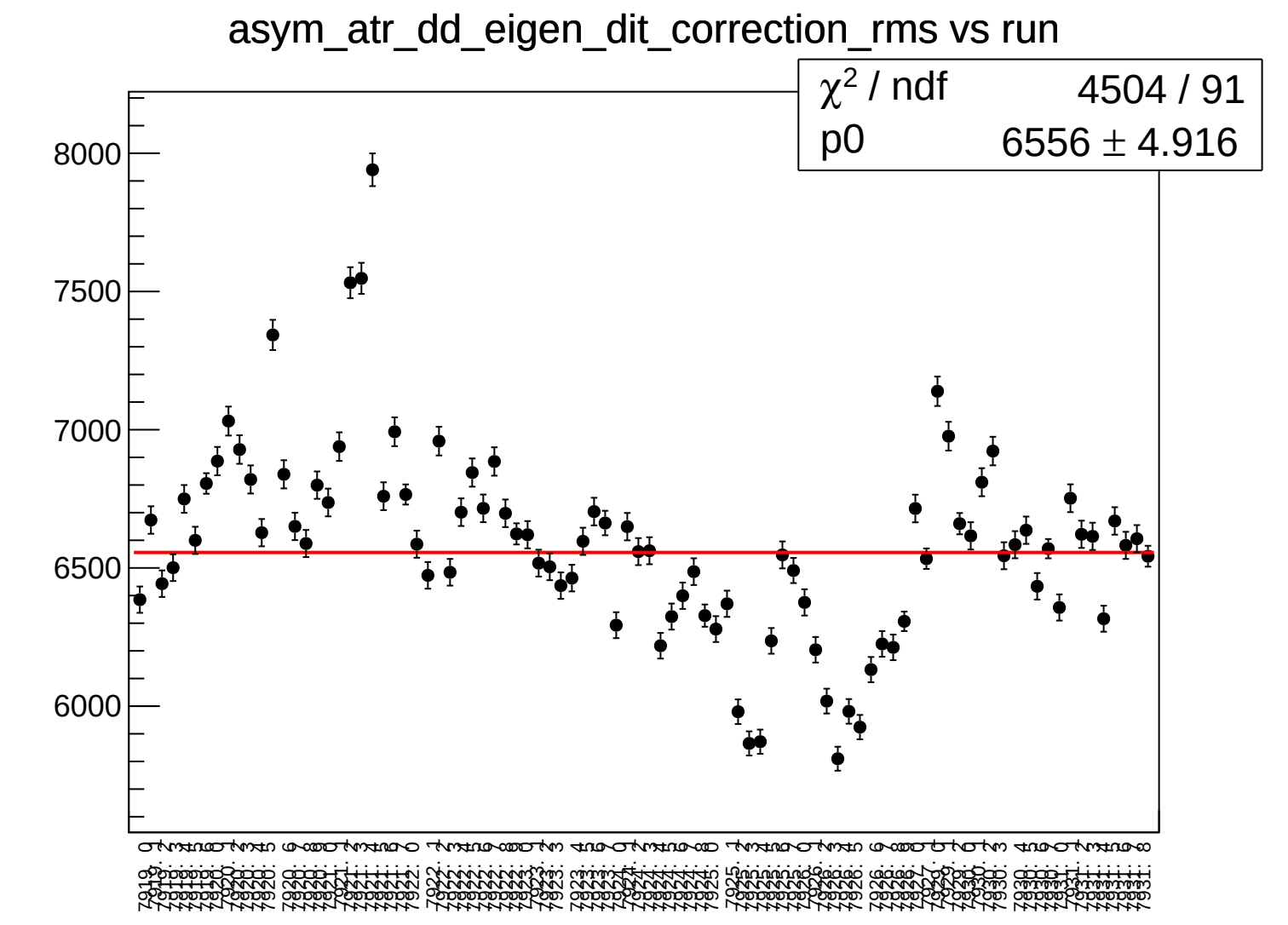

asym_atr_dd_dit_correction_rms vs run
χ² / ndf 4504 / 91
p0 6556 ± 4.916
8000
7500
7000
6500
6000

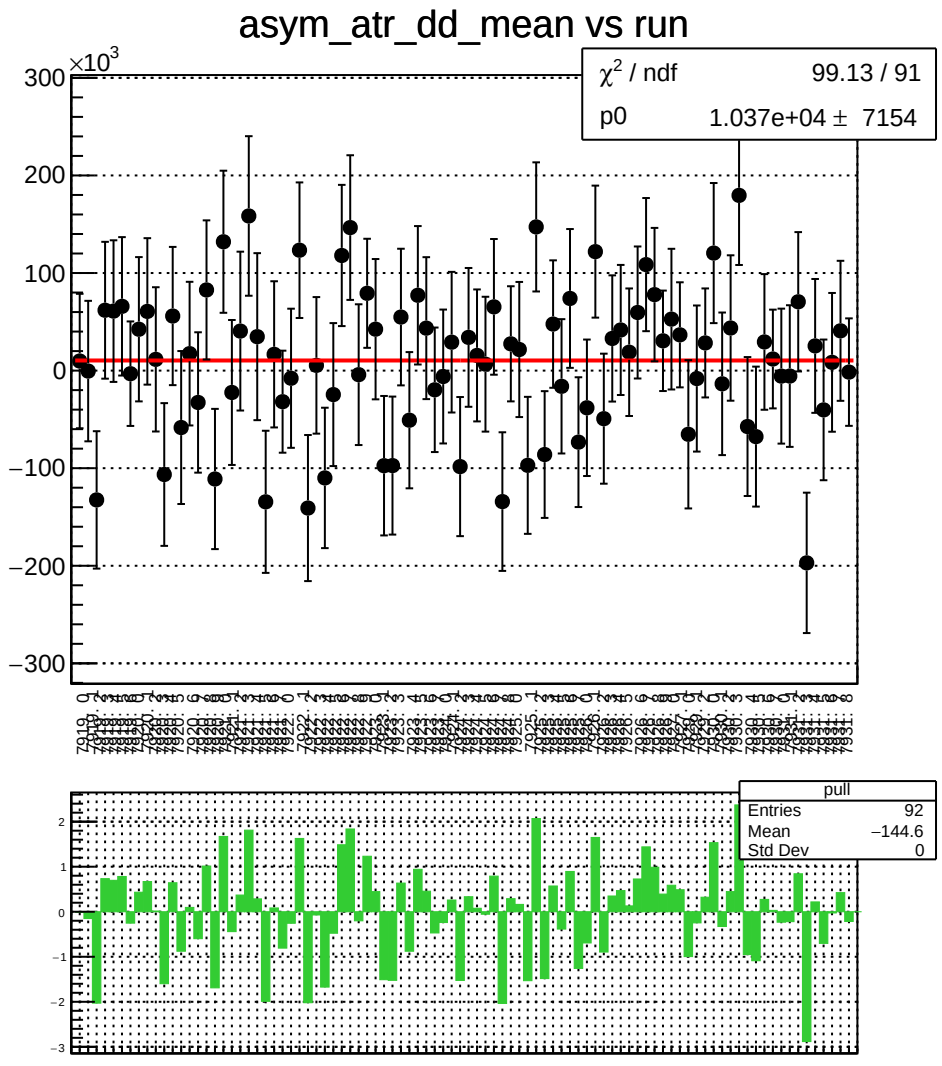

eigen_dit_asym_atr_dd_mean vs run
χ² / ndf 96.76 / 91
p0 −63.02 ± 2081
pull
Entries 92
Mean −653.4
Std Dev 0
pull1D
Entries 92
Mean −0.002369
Std Dev 1.026

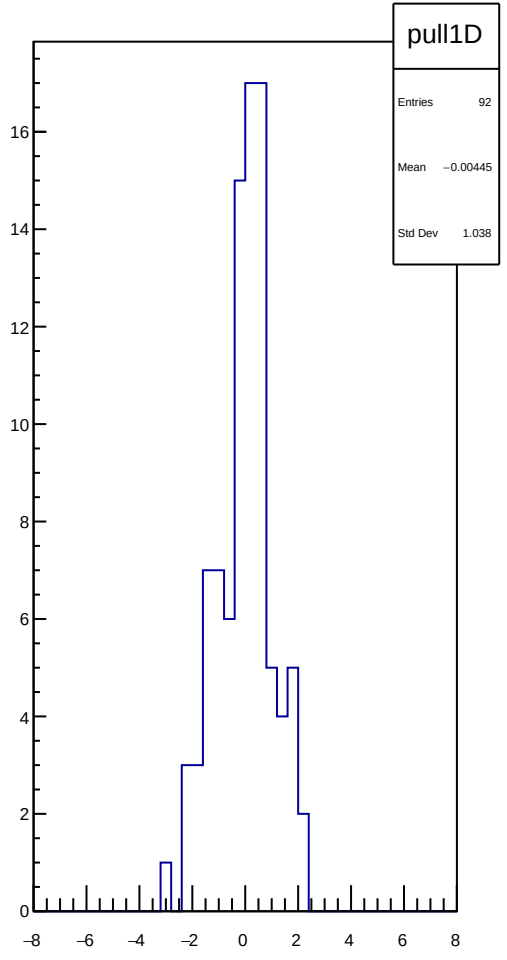

eigen_dit_asym_atr_dd_rms vs run
χ² / ndf 127.6 / 91
p0 1965 ± 1.471
2020
2000
1980
1960
1940
1920
1900

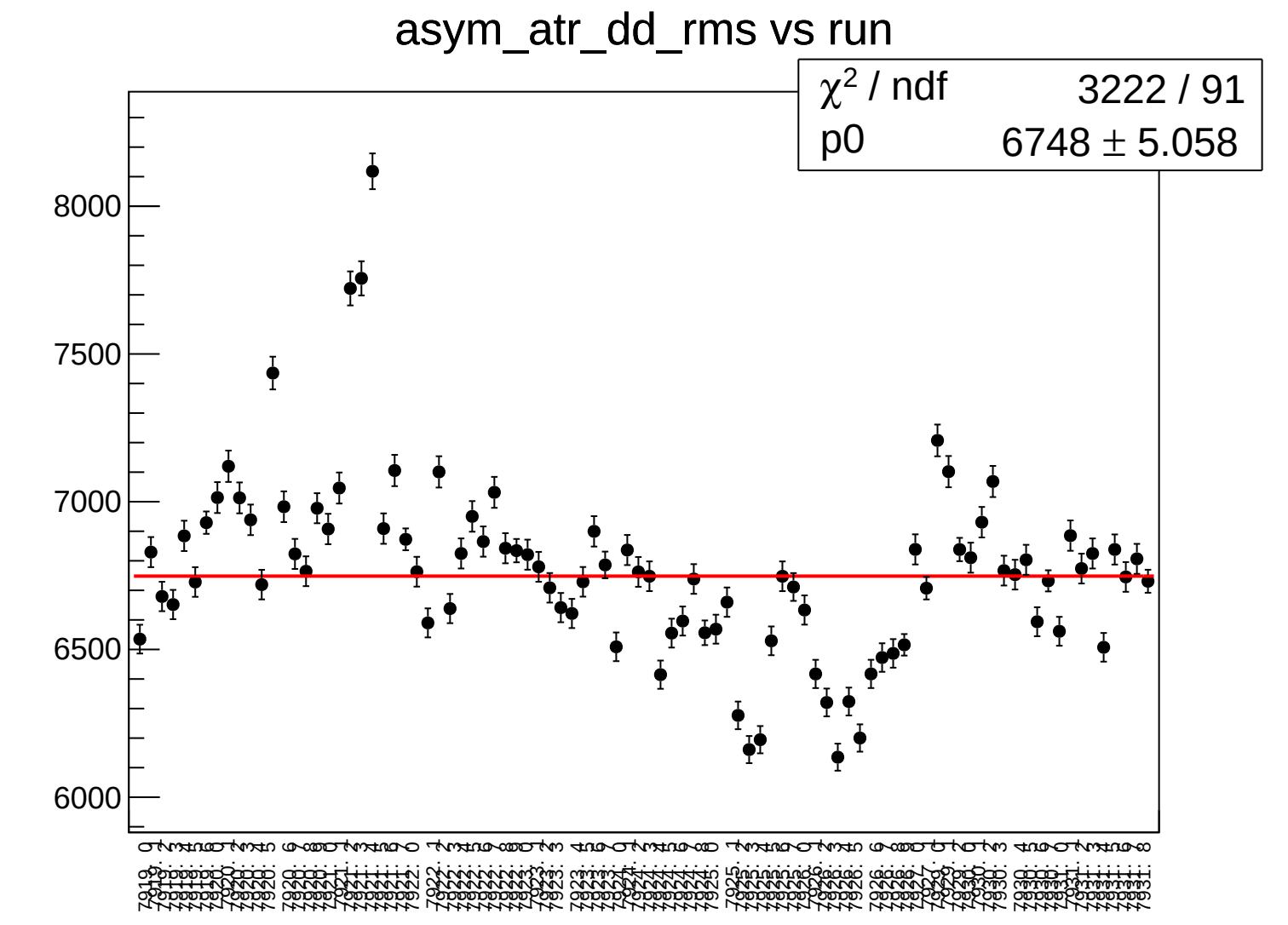

asym_atr_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 102.8 / 91
p0 −1.049e+04 ± 6952
pull
Entries 92
Mean −41.44
Std Dev 0

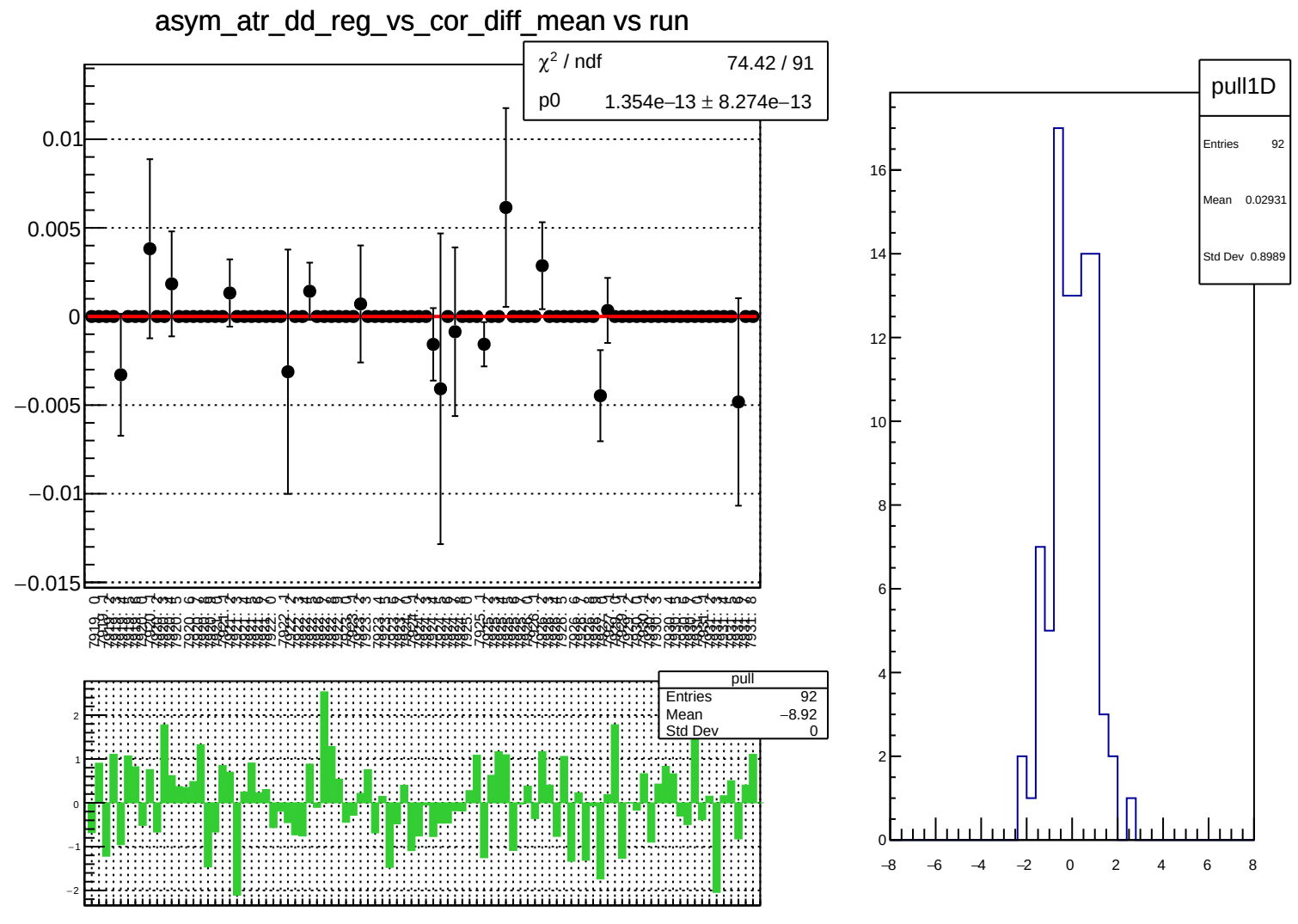

pull1D
Entries 92
Mean 0.004301
Std Dev 1.057

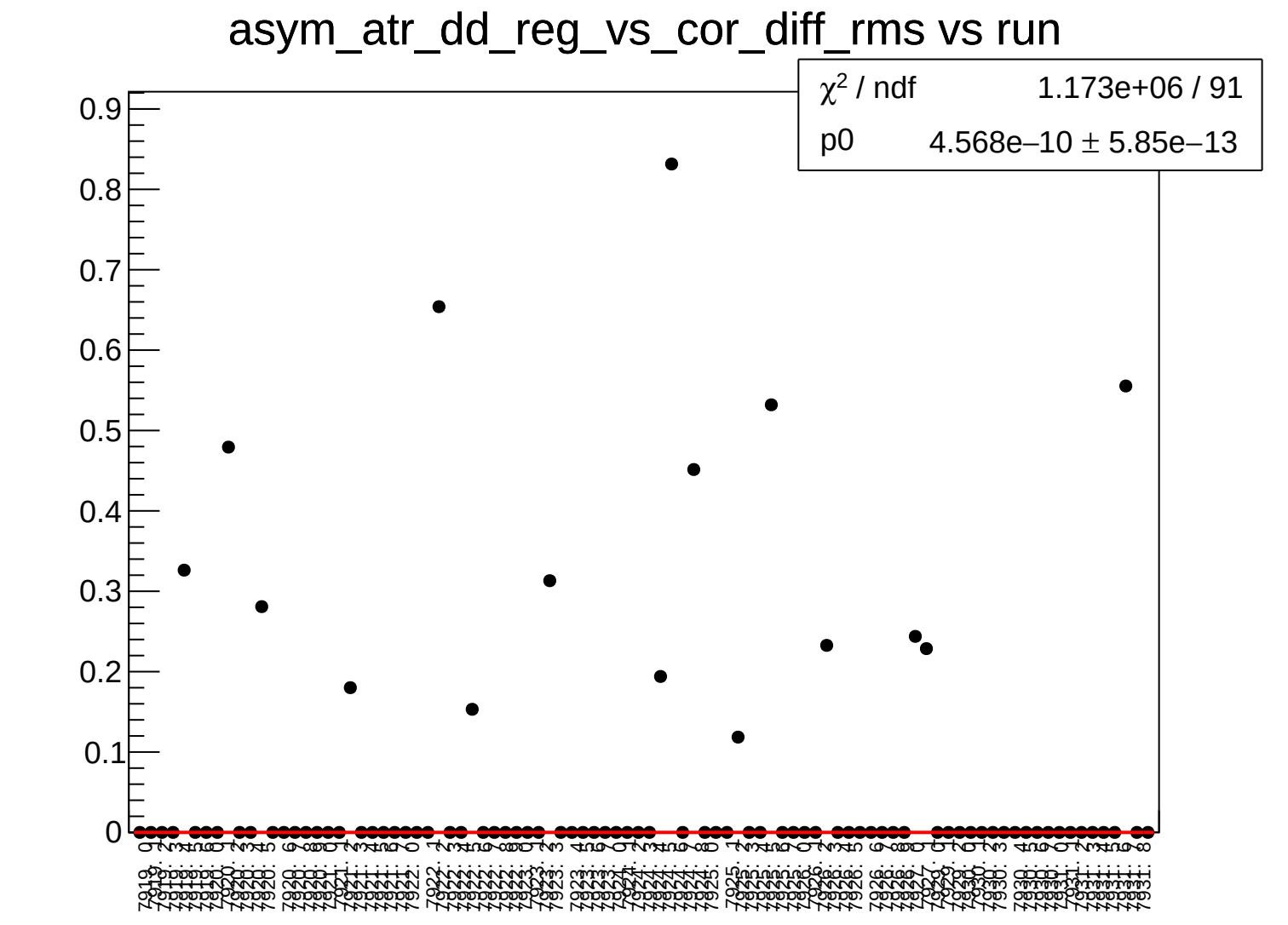

asym_atr_dd_eigen_dit_correction_rms vs run
χ² / ndf 4504 / 91
p0 6556 ± 4.916
8000
7500
7000
6500
6000

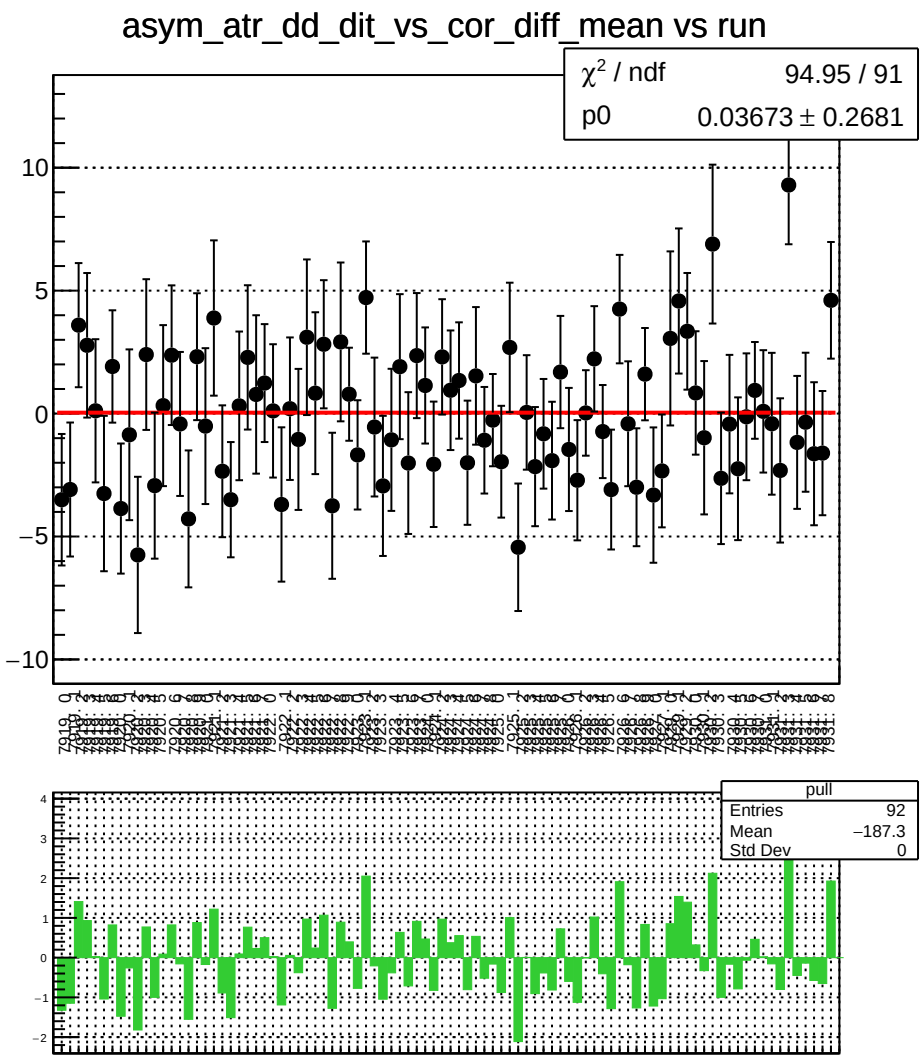

asym_atr_dd_mean vs run
χ² / ndf 99.13 / 91
p0 1.037e+04 ± 7154
pull
Entries 92
Mean −144.6
Std Dev 0

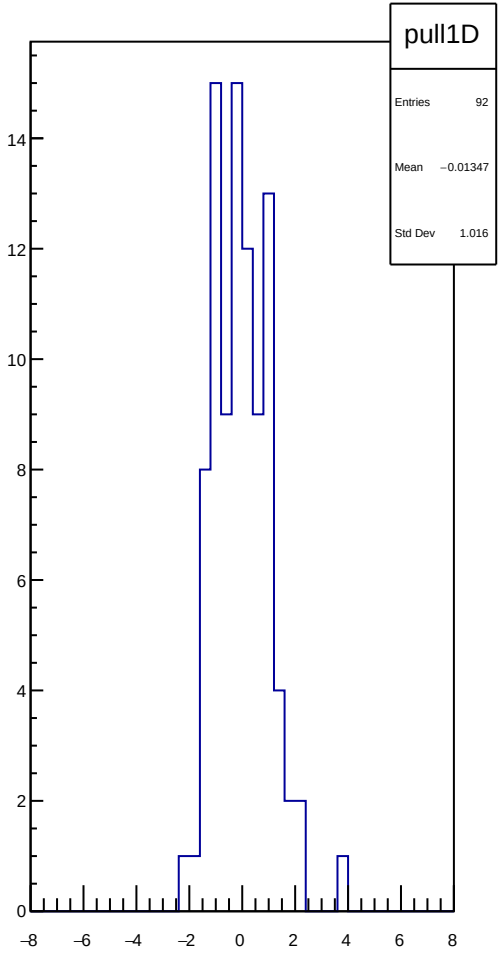

pull1D
Entries 92
Mean −0.00445
Std Dev 1.038

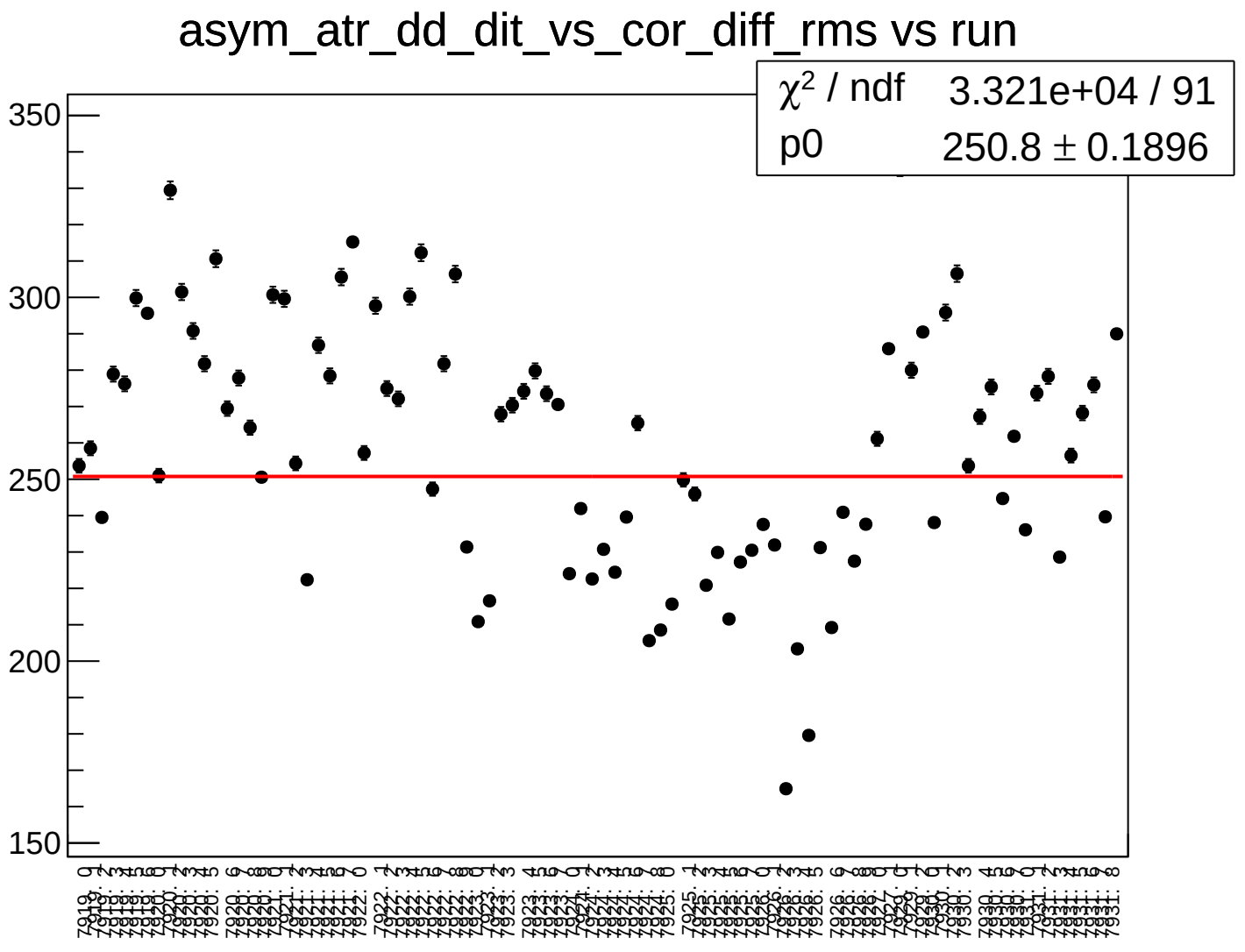

asym_atr_dd_rms vs run
χ^2 / ndf 3222 / 91
p0 6748 ± 5.058
8000
7500
7000
6500
6000

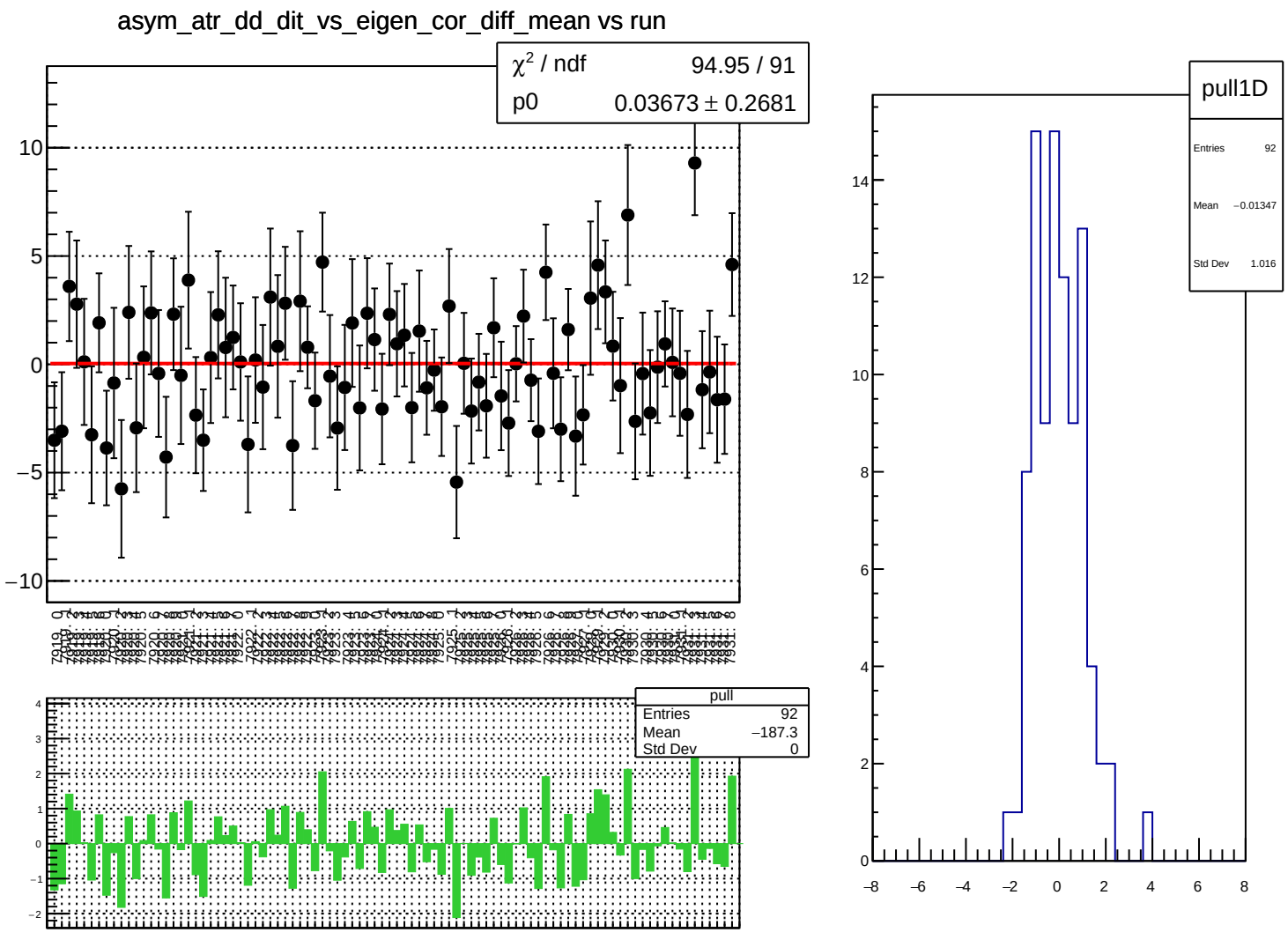

asym_atr_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 74.42 / 91
p0 1.354e−13 ± 8.274e−13
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 92
Mean −8.92
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.02931
Std Dev 0.8989
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

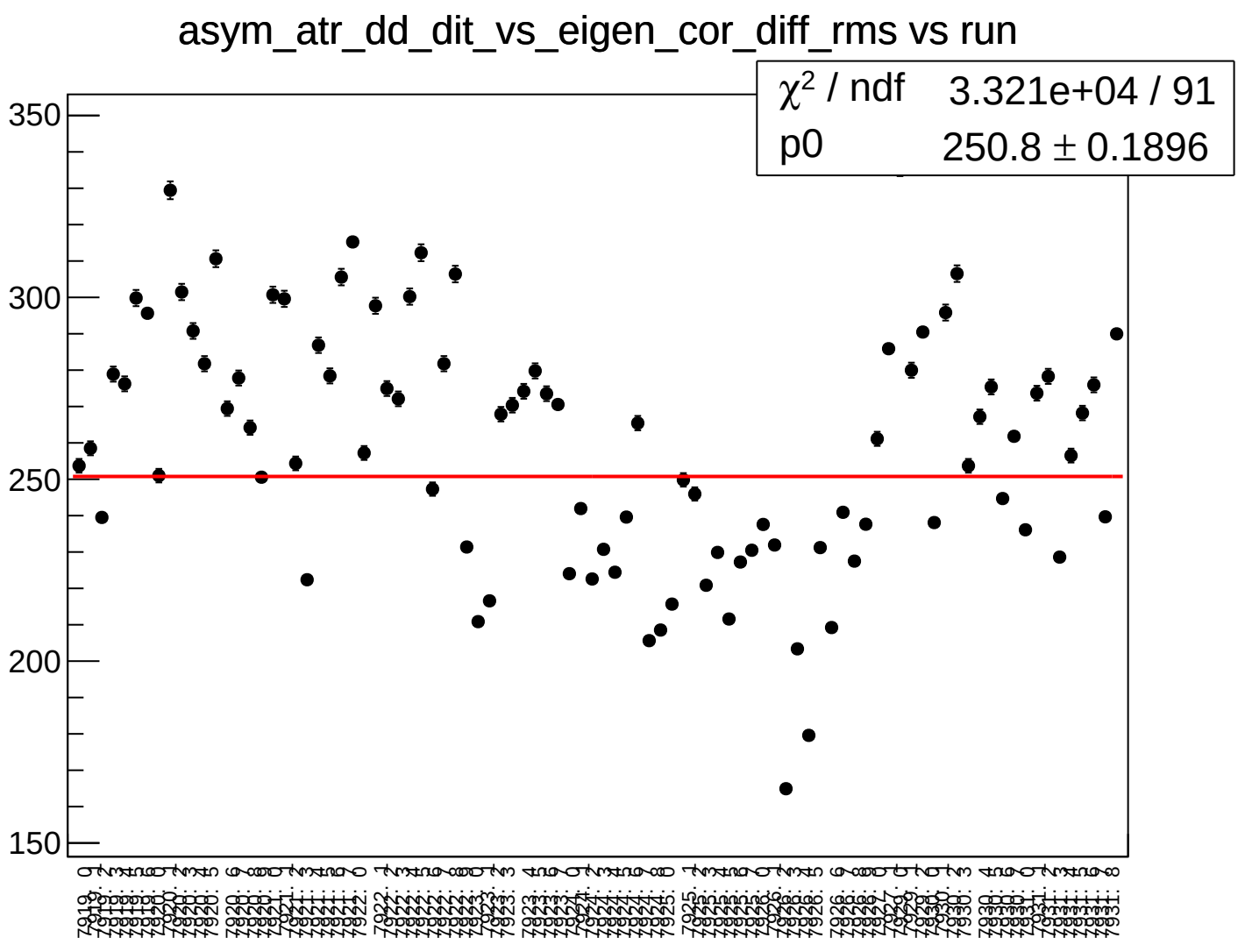

asym_atr_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.173e+06 / 91
p0 4.568e−10 ± 5.85e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

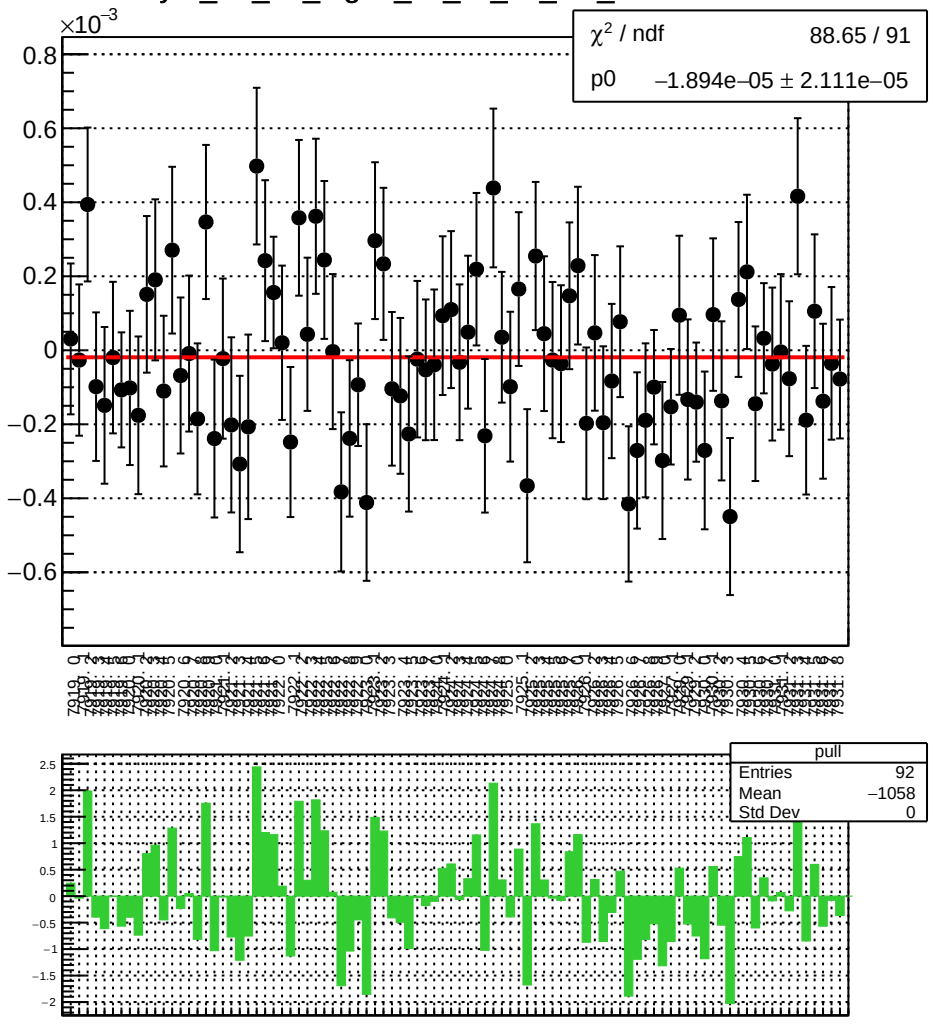

asym_atr_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 94.95 / 91
p0 0.03673 ± 0.2681
pull
Entries 92
Mean −187.3
Std Dev 0

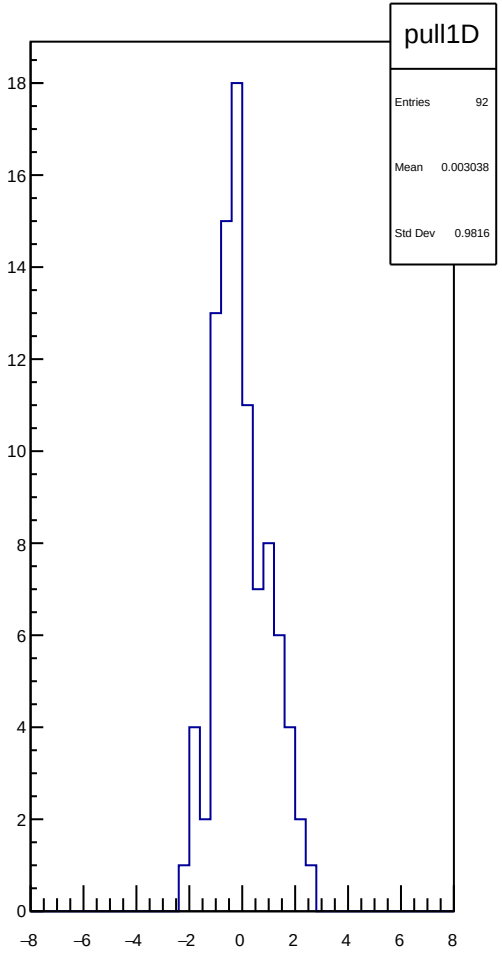

pull1D
Entries 92
Mean −0.01347
Std Dev 1.016

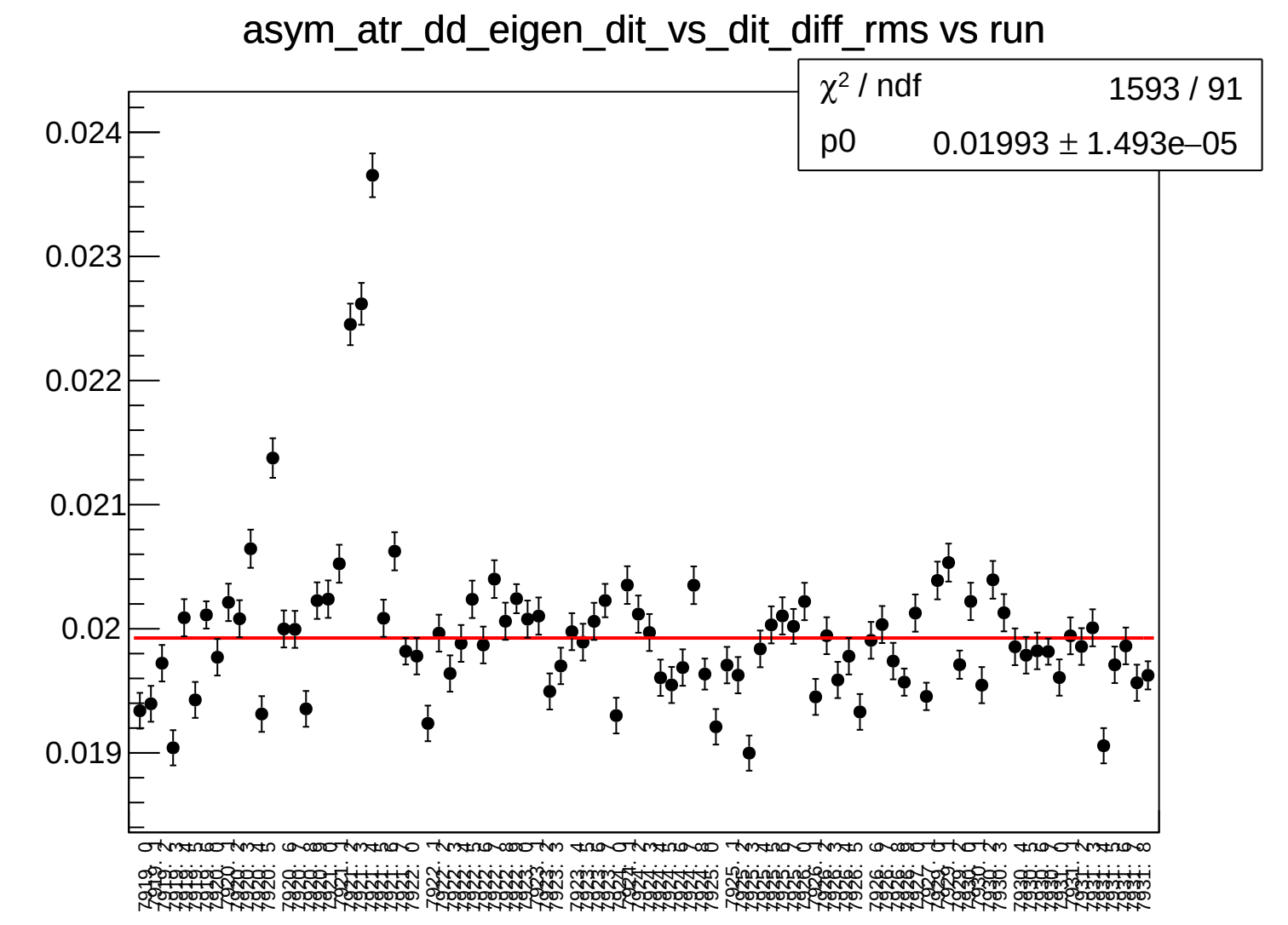

asym_atr_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.321e+04 / 91
p0 250.8 ± 0.1896
350
300
250
200
150

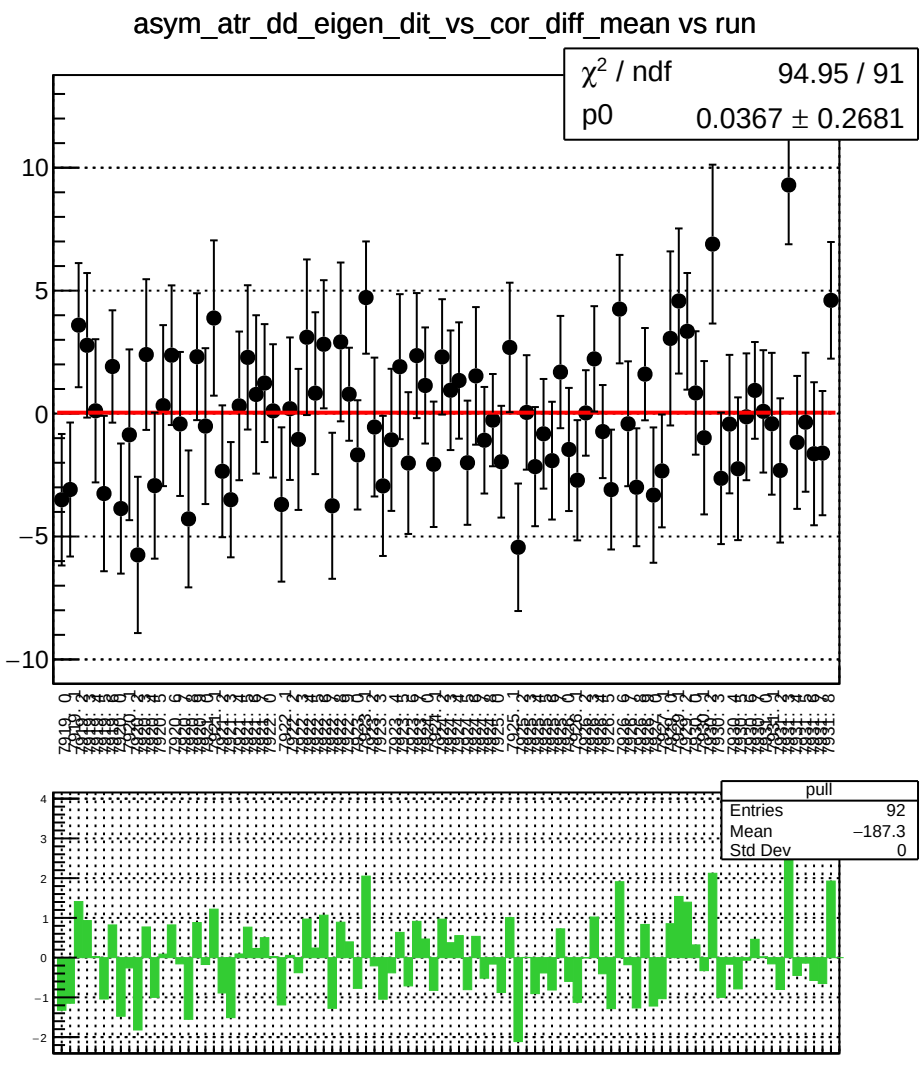

asym_atr_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.95 / 91
p0 0.03673 ± 0.2681
pull
Entries 92
Mean −187.3
Std Dev 0
pull1D
Entries 92
Mean −0.01347
Std Dev 1.016

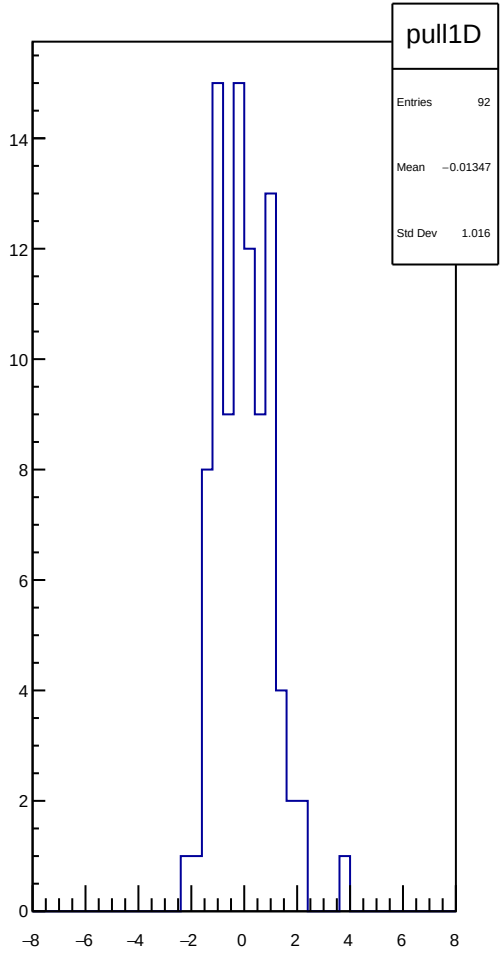

asym_atr_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.321e+04 / 91
p0 250.8 ± 0.1896
350
300
250
200
150

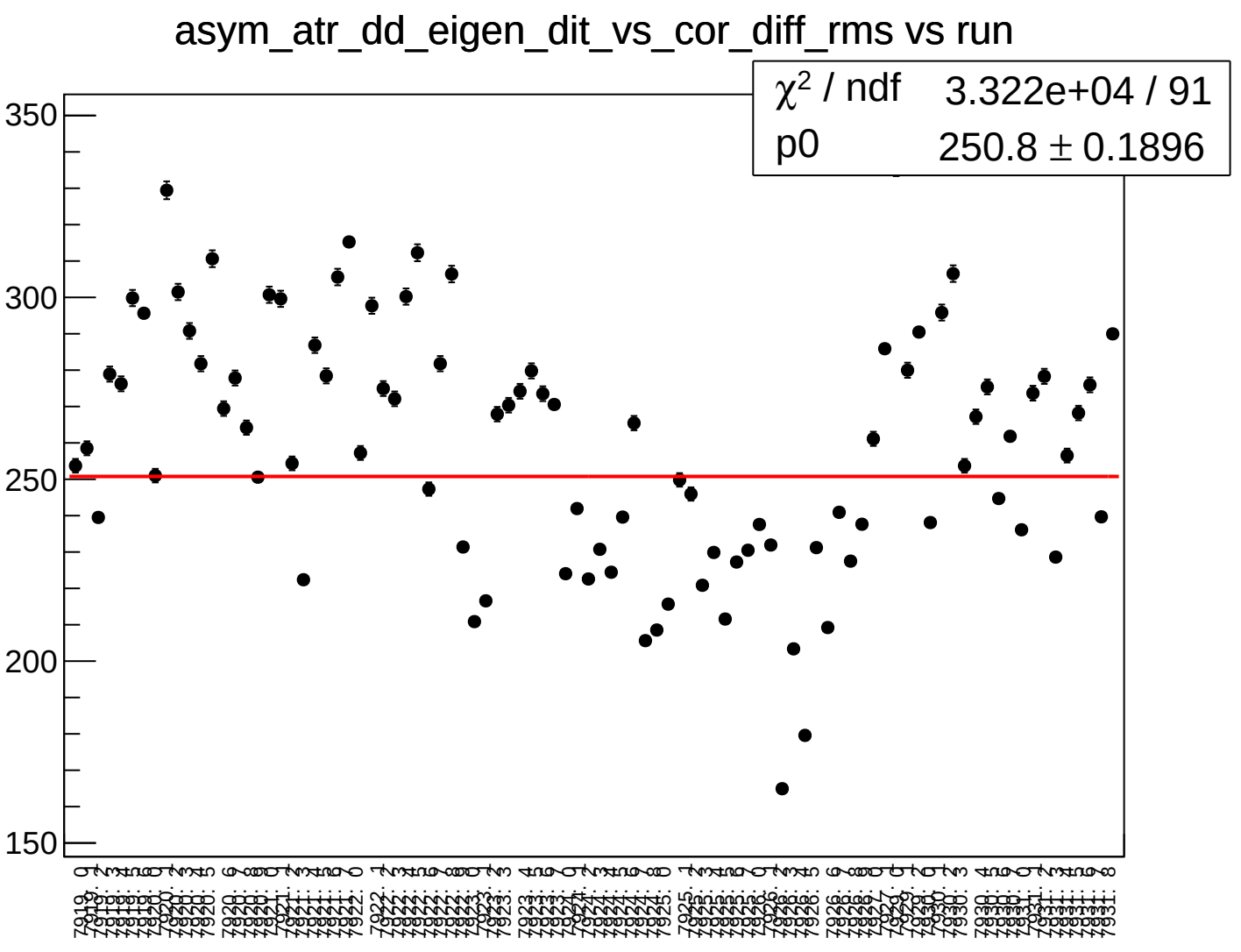

asym_atr_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.65 / 91
p0 −1.894e−05 ± 2.111e−05
pull
Entries 92
Mean −1058
Std Dev 0

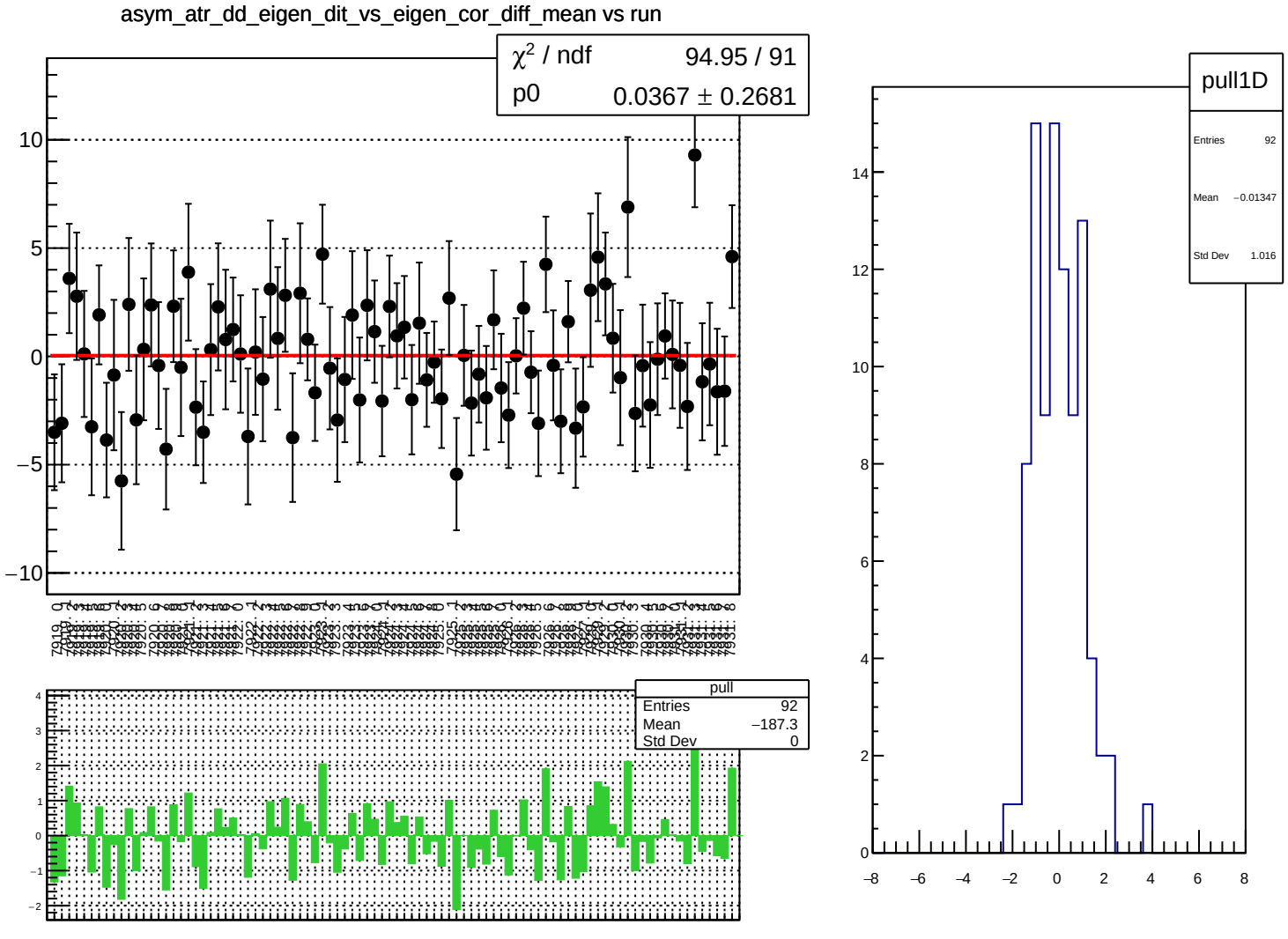

pull1D
Entries 92
Mean 0.003038
Std Dev 0.9816

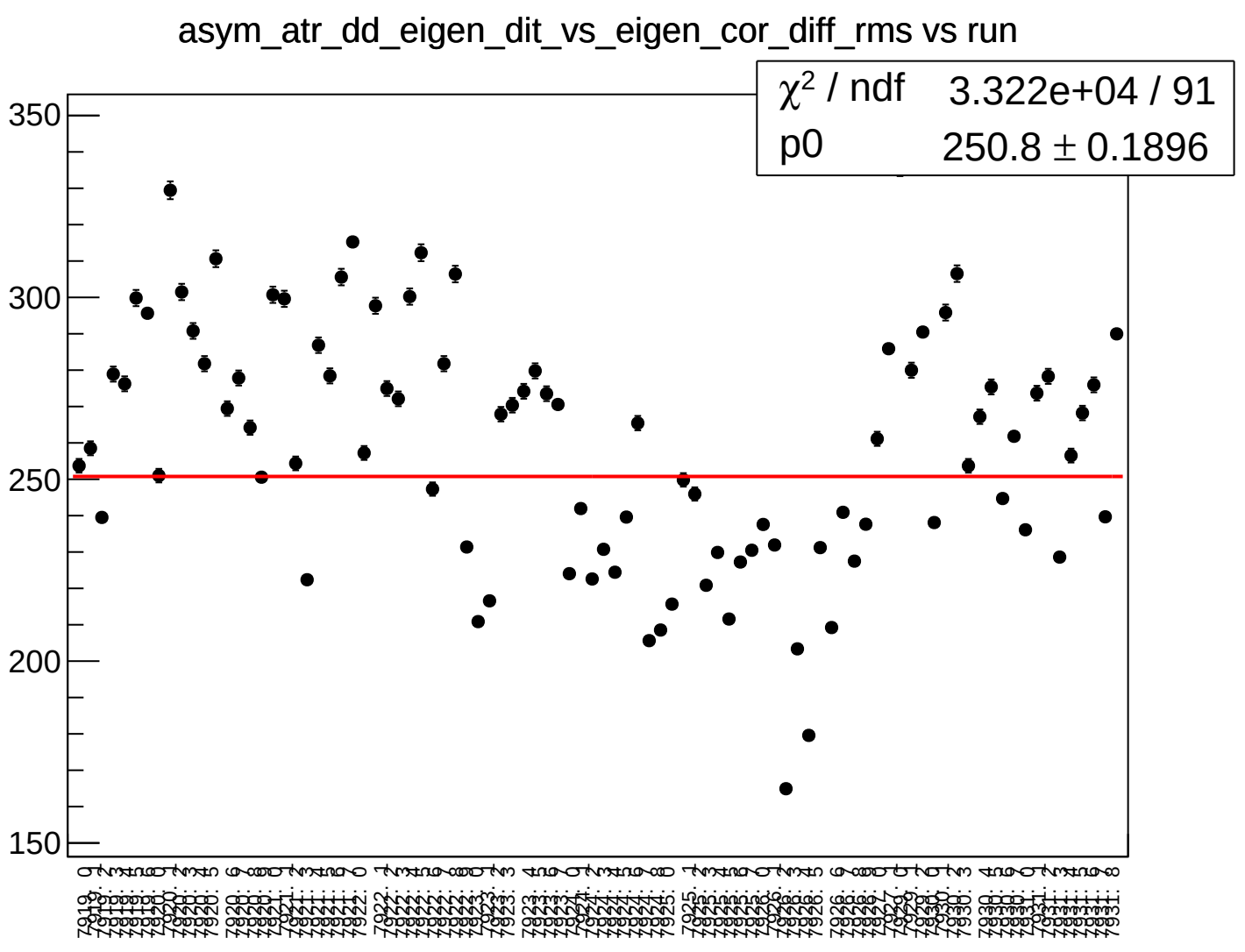

asym_atr_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1593 / 91
p0 0.01993 ± 1.493e−05
0.024
0.023
0.022
0.021
0.02
0.019

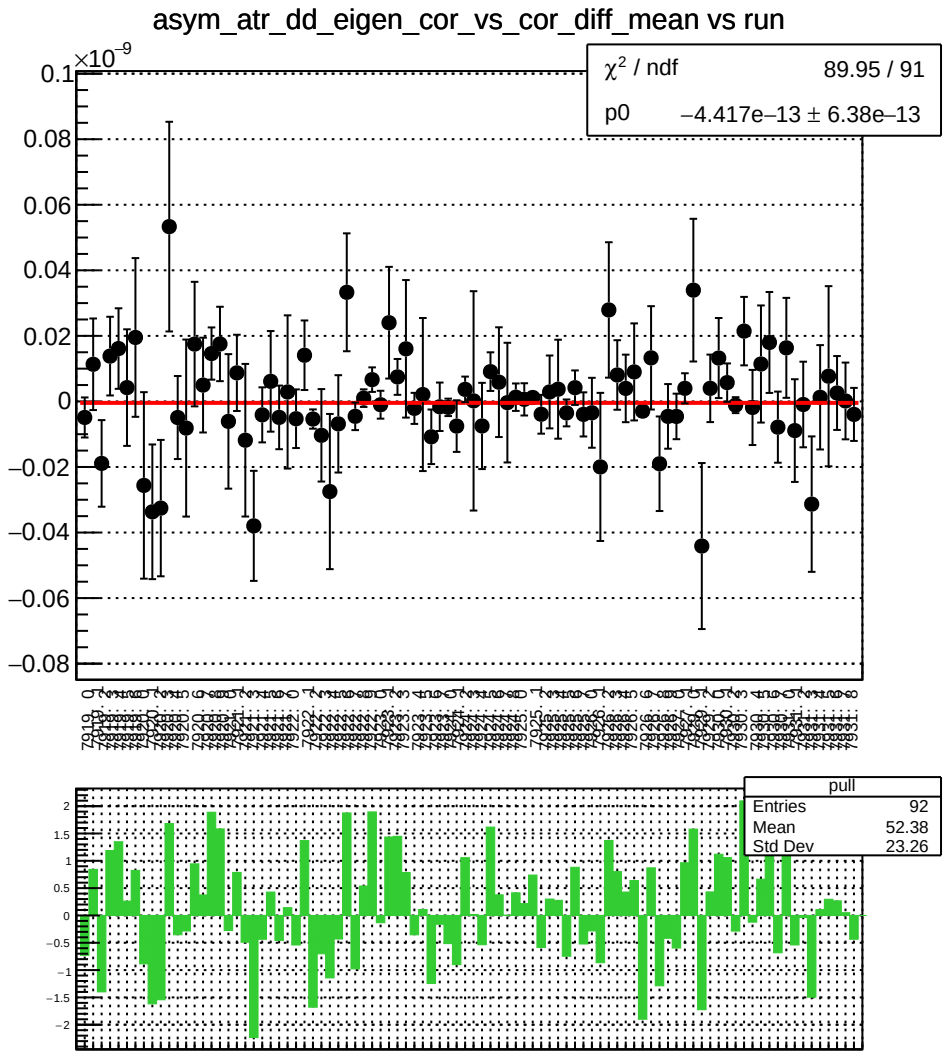

asym_atr_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.95 / 91
p0 0.0367 ± 0.2681
10
5
0
−5
−10
pull
Entries 92
Mean −187.3
Std Dev 0
4
3
2
1
0
−1
−2

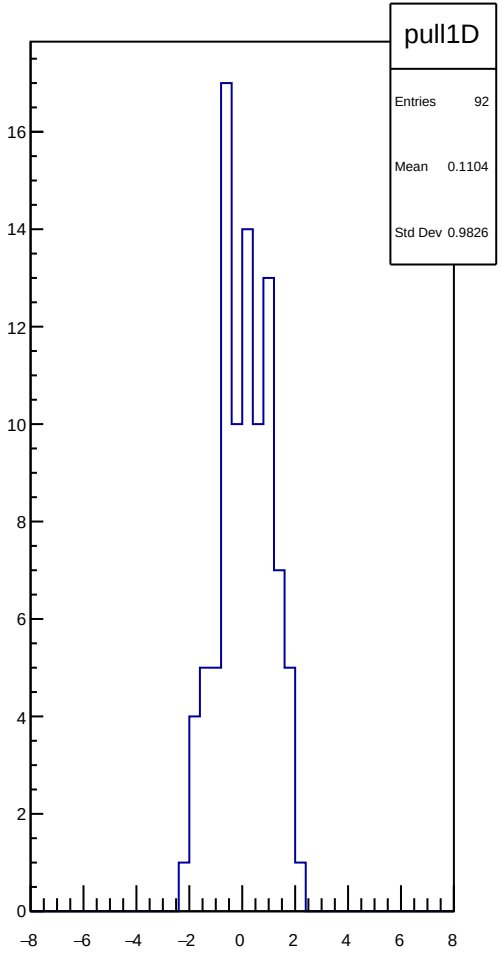

pull1D
Entries 92
Mean −0.01347
Std Dev 1.016
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

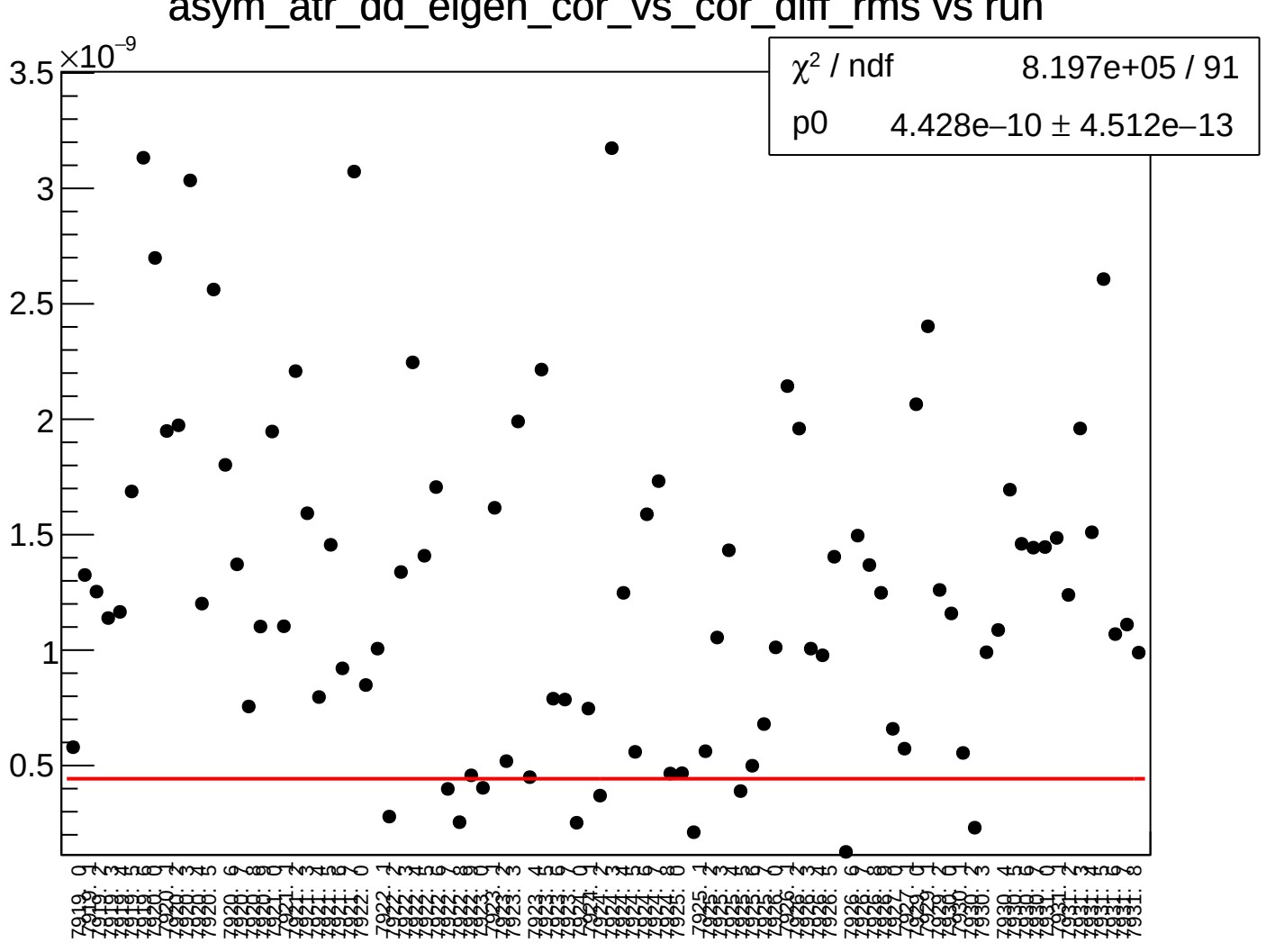

asym_atr_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.322e+04 / 91
p0 250.8 ± 0.1896
350
300
250
200
150

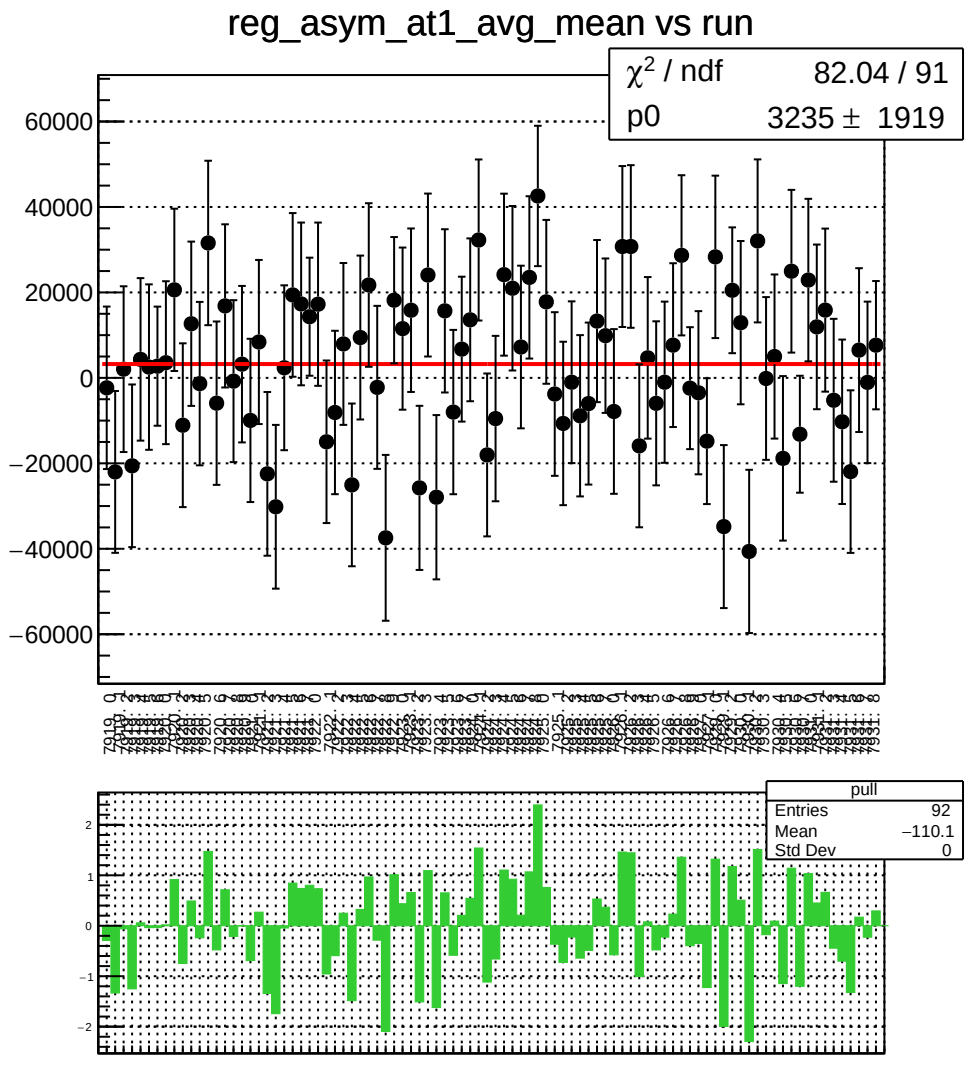

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.95 / 91
p0 0.0367 ± 0.2681
10
5
0
−5
−10
pull
Entries 92
Mean −187.3
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.01347
Std Dev 1.016
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

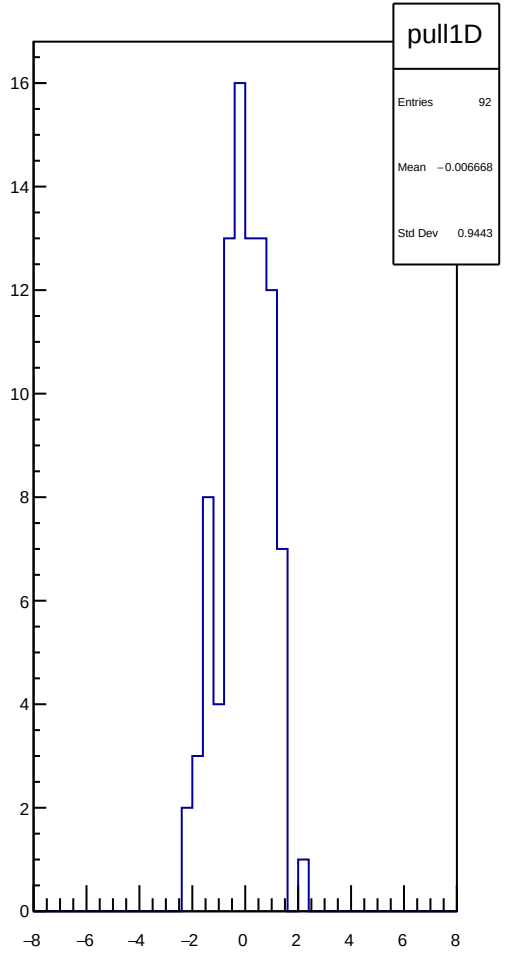

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.322e+04 / 91
p0 250.8 ± 0.1896
350
300
250
200
150

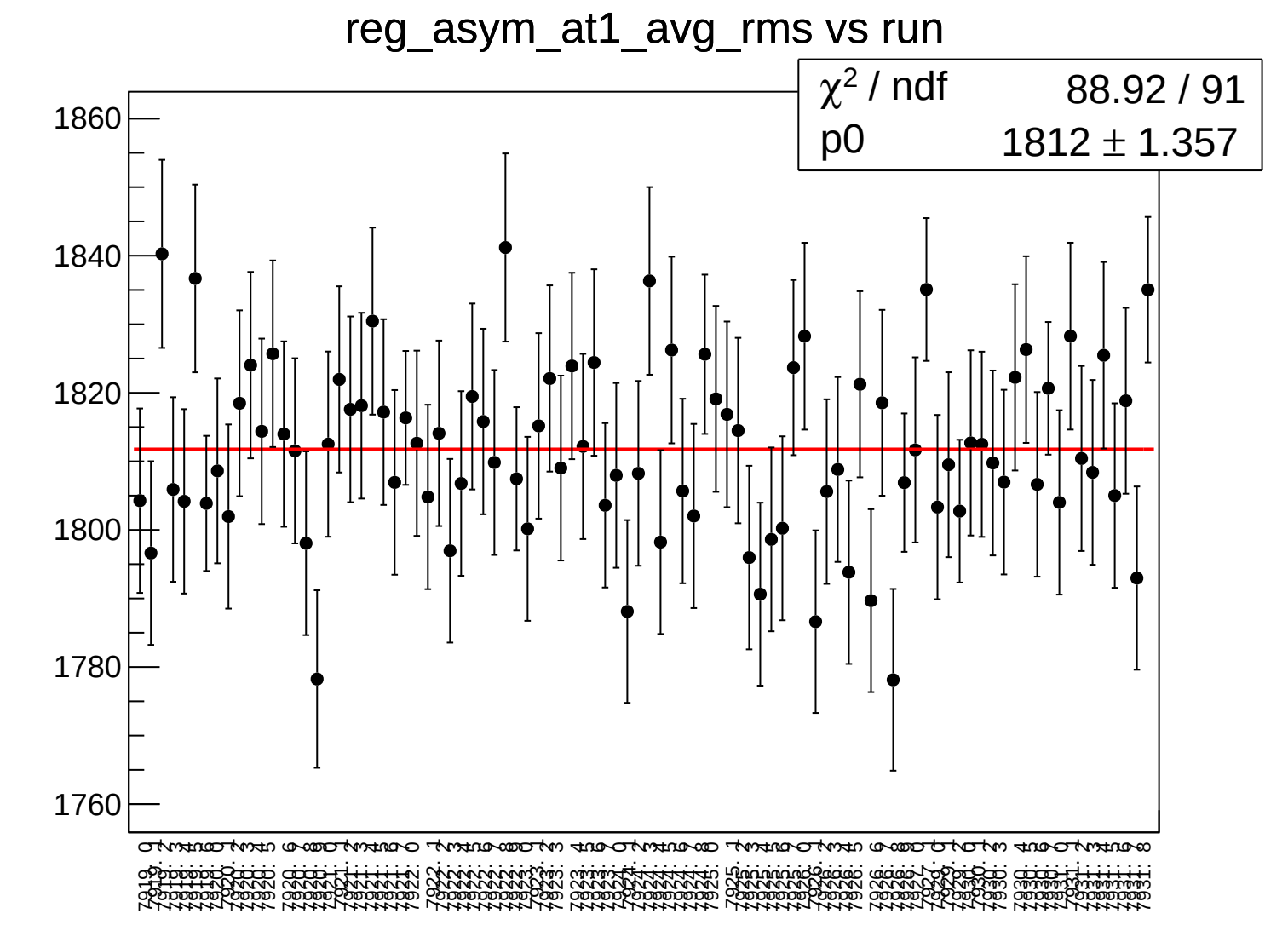

asym_atr_dd_eigen_cor_vs_cor_diff_mean vs run
χ² / ndf 89.95 / 91
p0 −4.417e−13 ± 6.38e−13
×10⁻⁹
pull
Entries 92
Mean 52.38
Std Dev 23.26

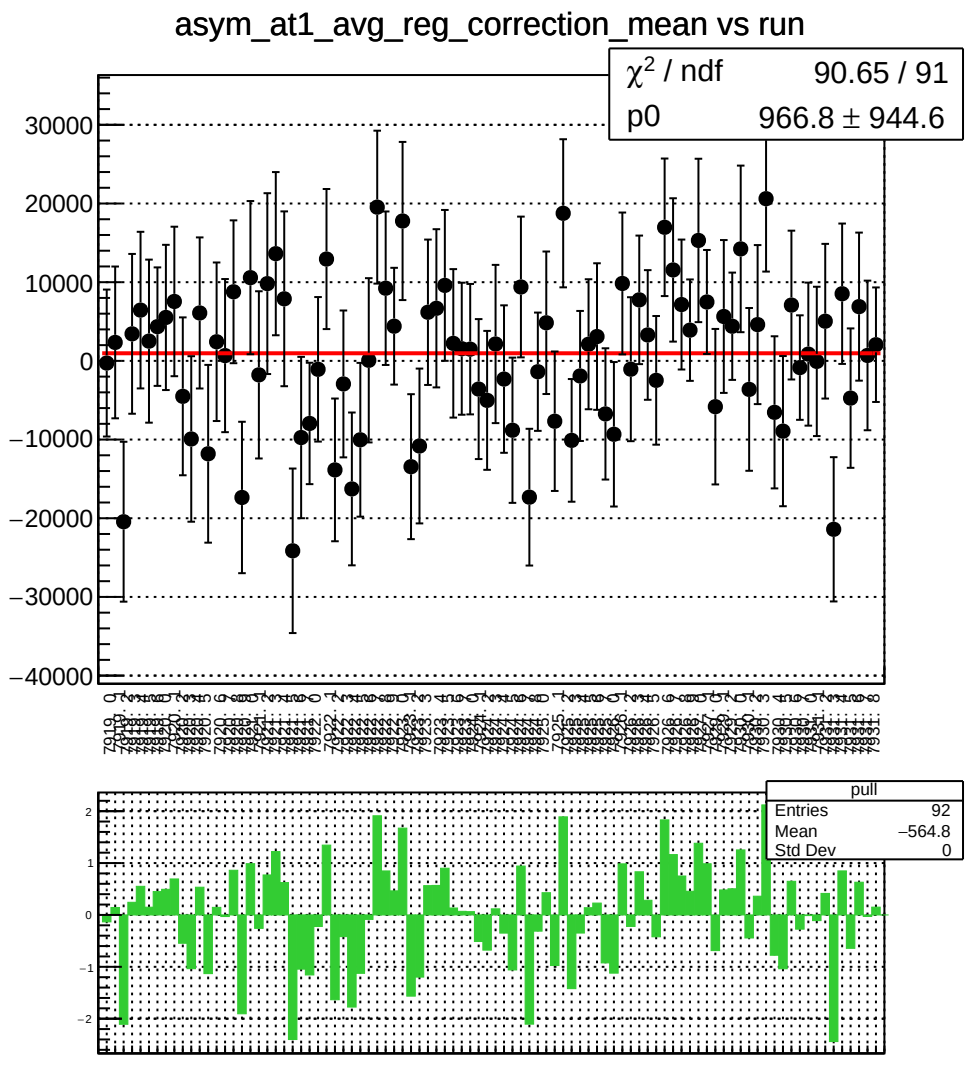

pull1D
Entries 92
Mean 0.1104
Std Dev 0.9826

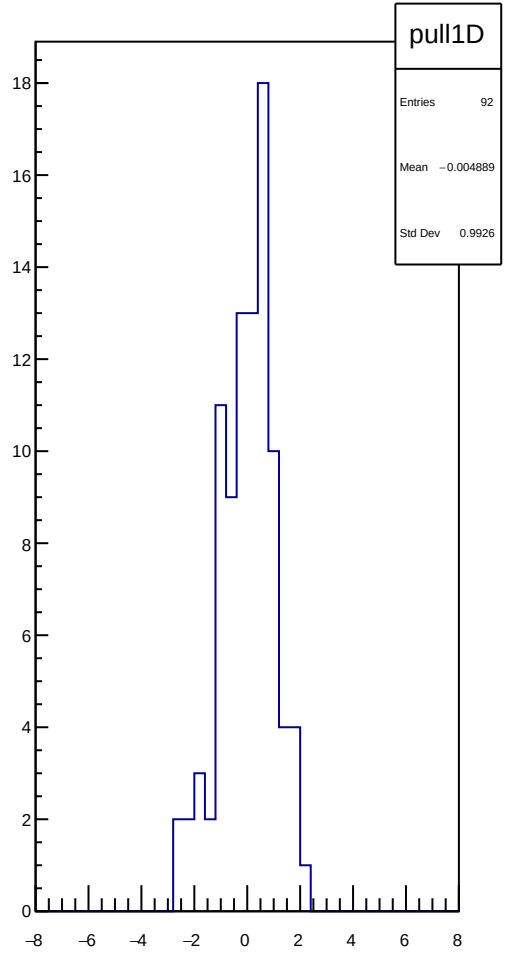

asym_atr_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
3.5
3
2.5
2
1.5
1
0.5
χ² / ndf 8.197e+05 / 91
p0 4.428e−10 ± 4.512e−13

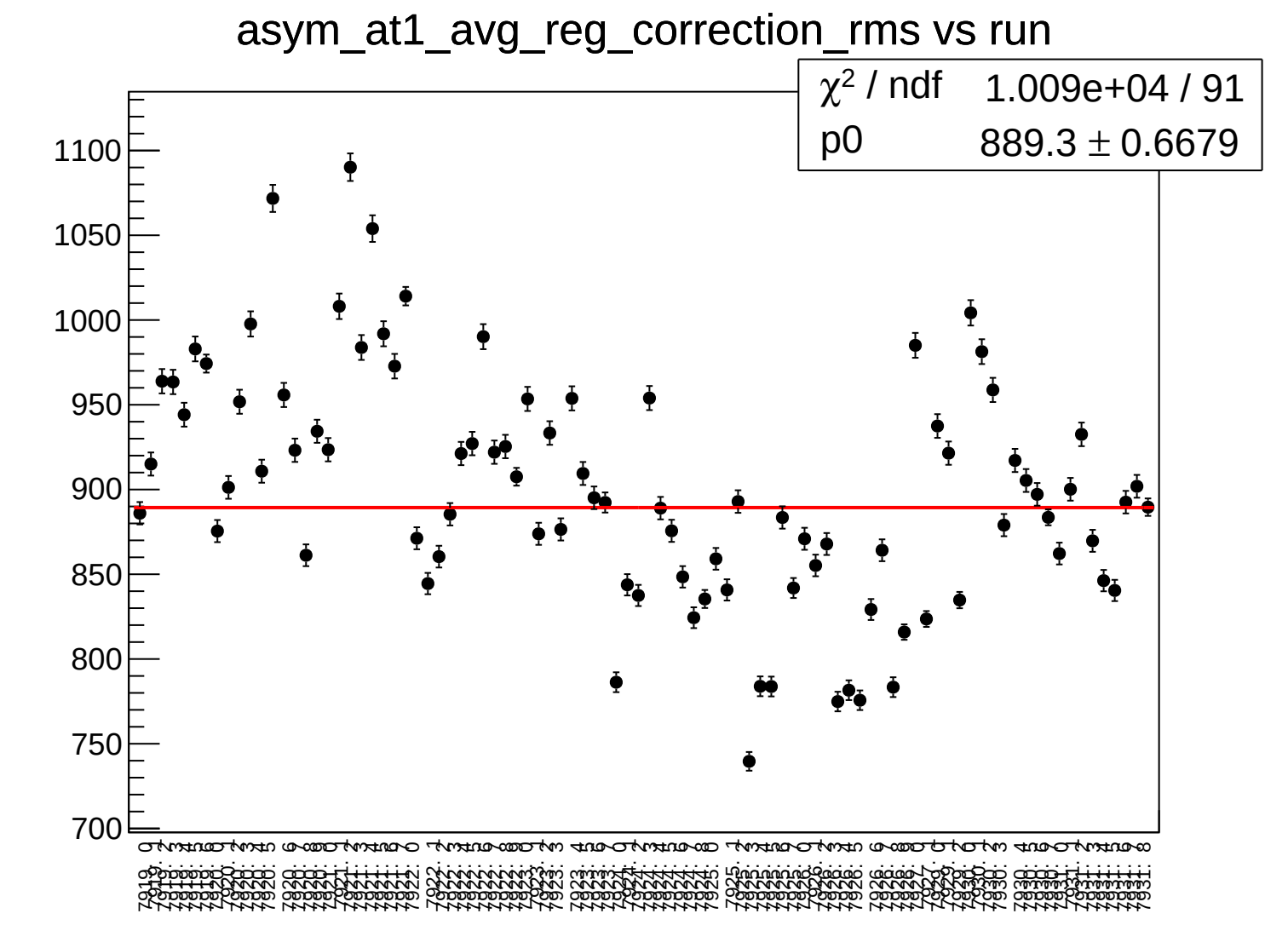

reg_asym_at1_avg_mean vs run
χ² / ndf 82.04 / 91
p0 3235 ± 1919
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −110.1
Std Dev 0
2
1
0
−1
−2

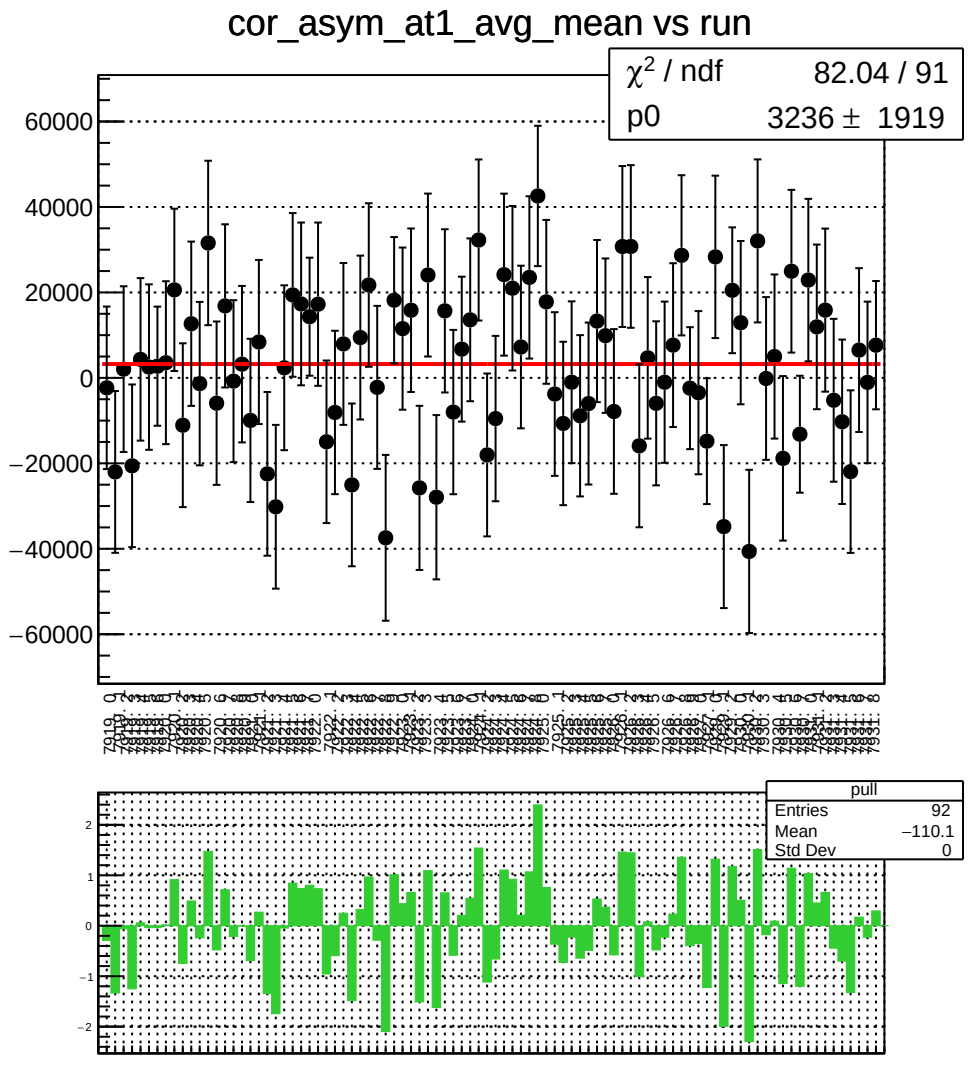

pull1D
Entries 92
Mean −0.006668
Std Dev 0.9443
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

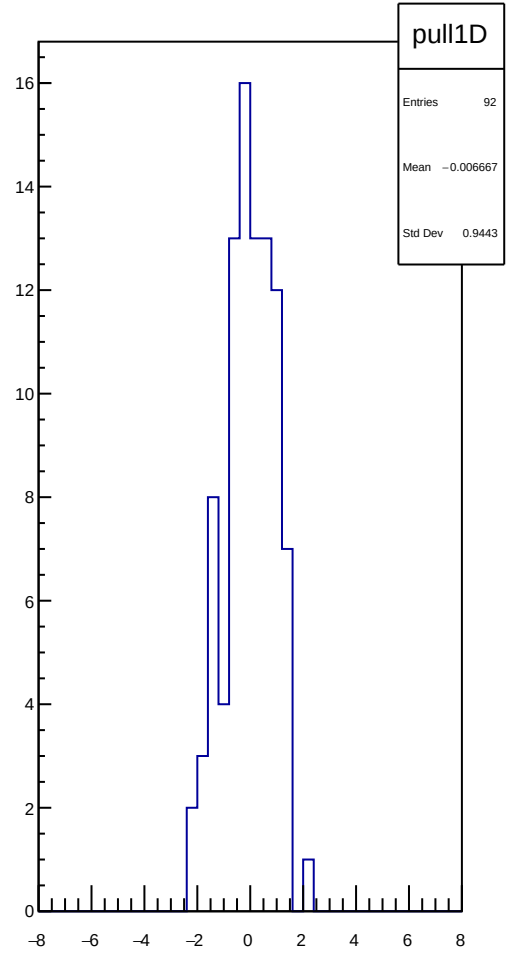

reg_asym_at1_avg_rms vs run
χ^2 / ndf 88.92 / 91
p0 1812 ± 1.357
1860
1840
1820
1800
1780
1760

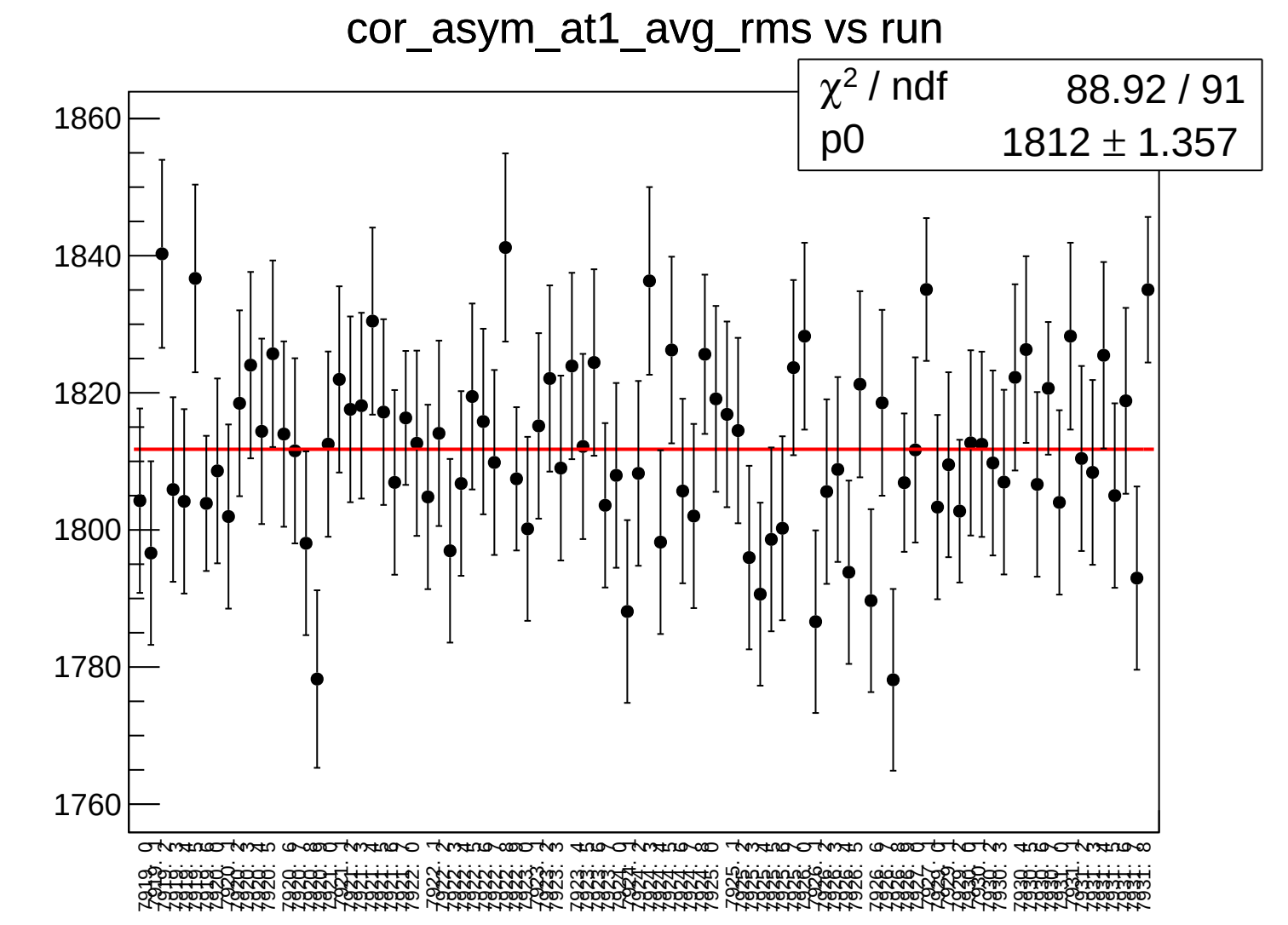

asym_at1_avg_reg_correction_mean vs run
χ² / ndf 90.65 / 91
p0 966.8 ± 944.6
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 92
Mean −564.8
Std Dev 0
2
1
0
−1
−2

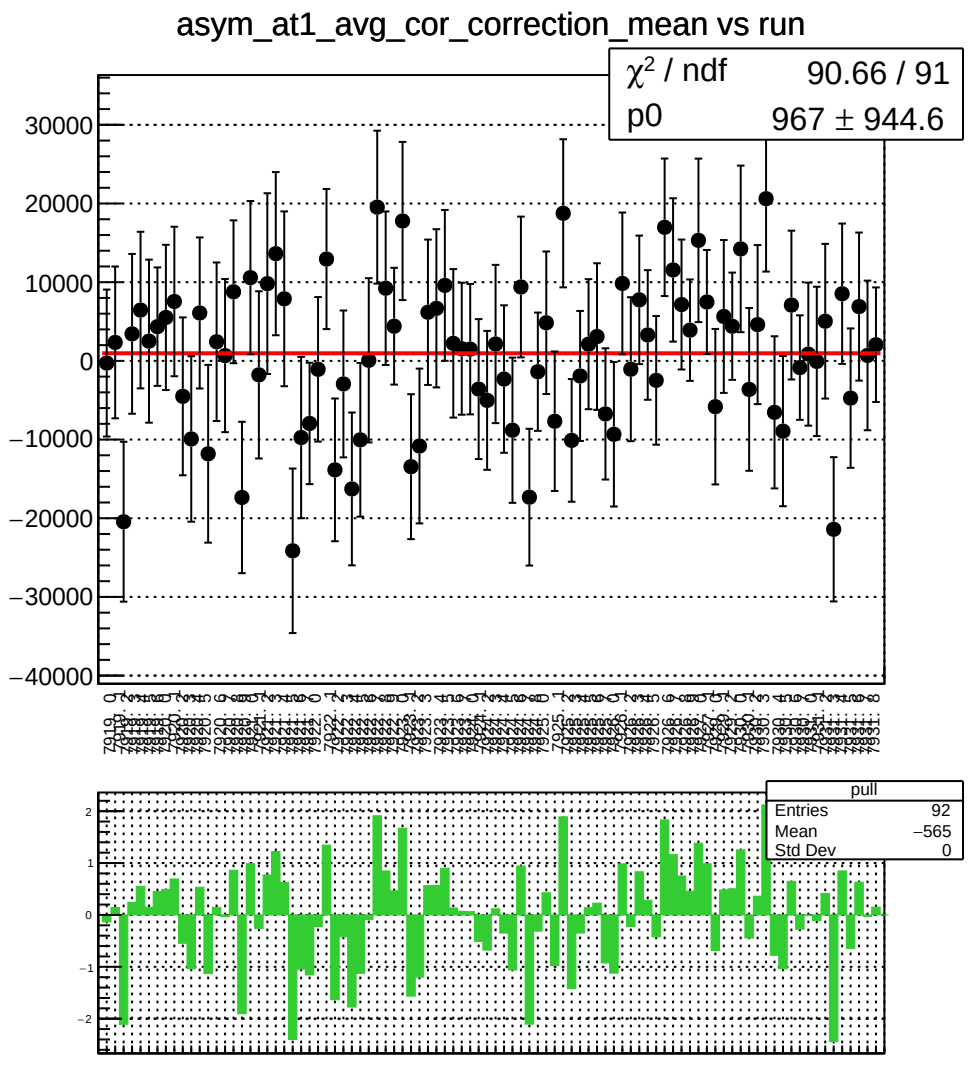

pull1D
Entries 92
Mean −0.004889
Std Dev 0.9926
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

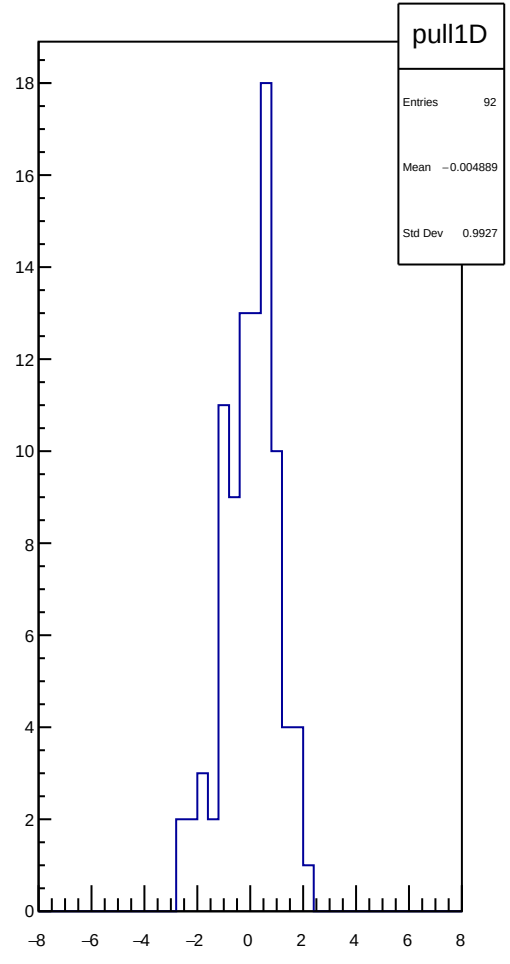

asym_at1_avg_reg_correction_rms vs run
χ² / ndf 1.009e+04 / 91
p0 889.3 ± 0.6679
1100
1050
1000
950
900
850
800
750
700

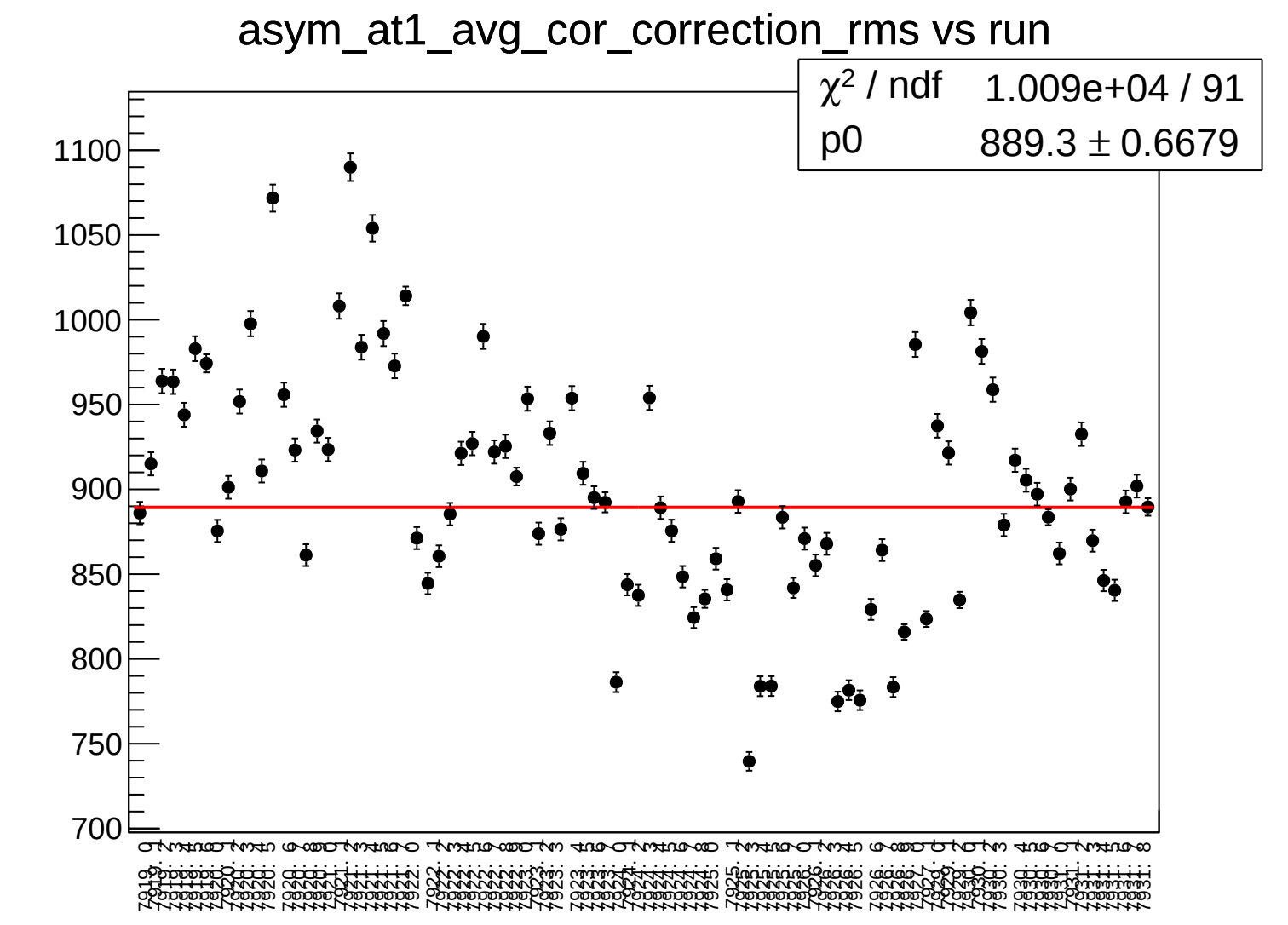

cor_asym_at1_avg_mean vs run
χ² / ndf 82.04 / 91
p0 3236 ± 1919
pull
Entries 92
Mean −110.1
Std Dev 0

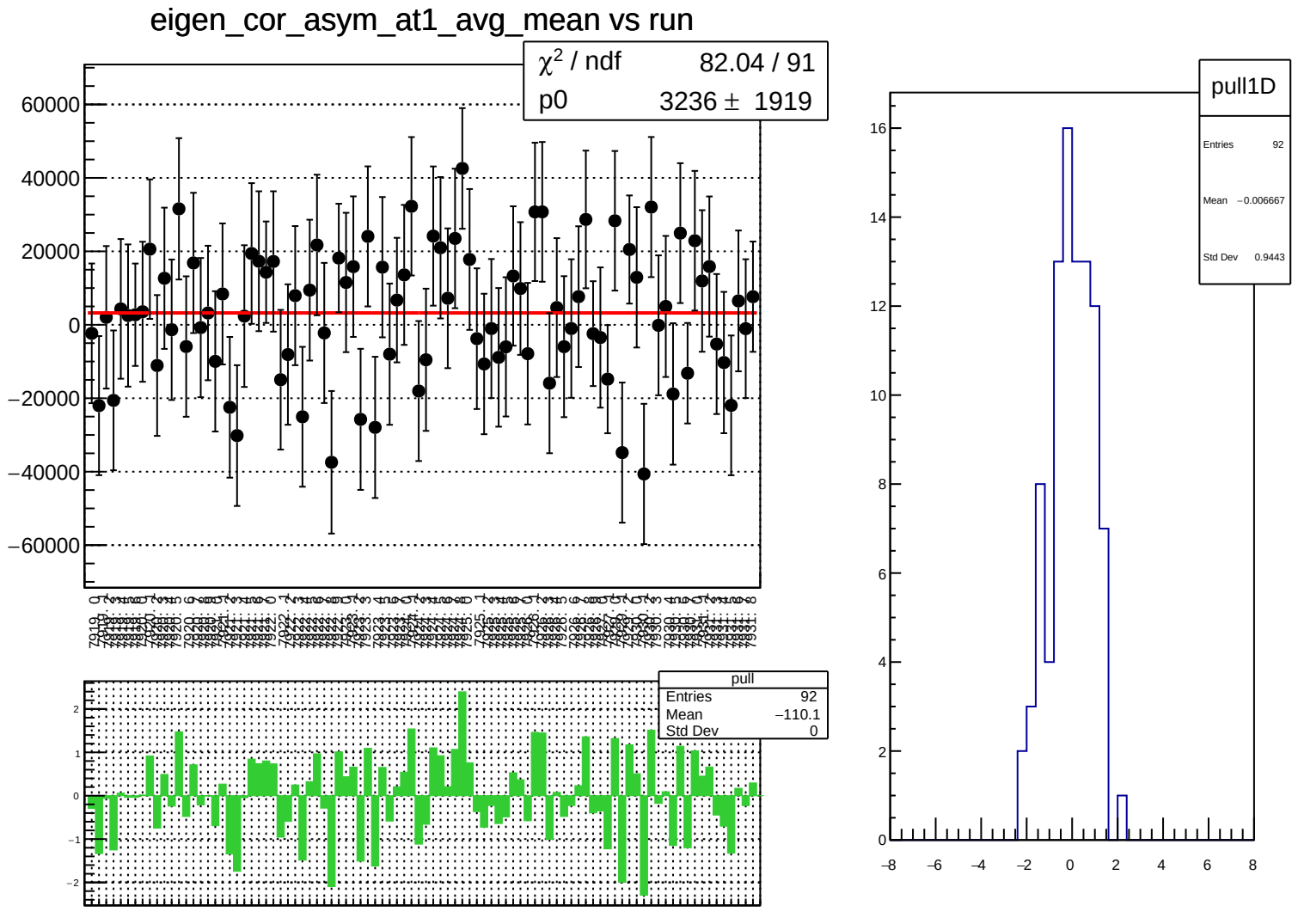

pull1D
Entries 92
Mean −0.006667
Std Dev 0.9443

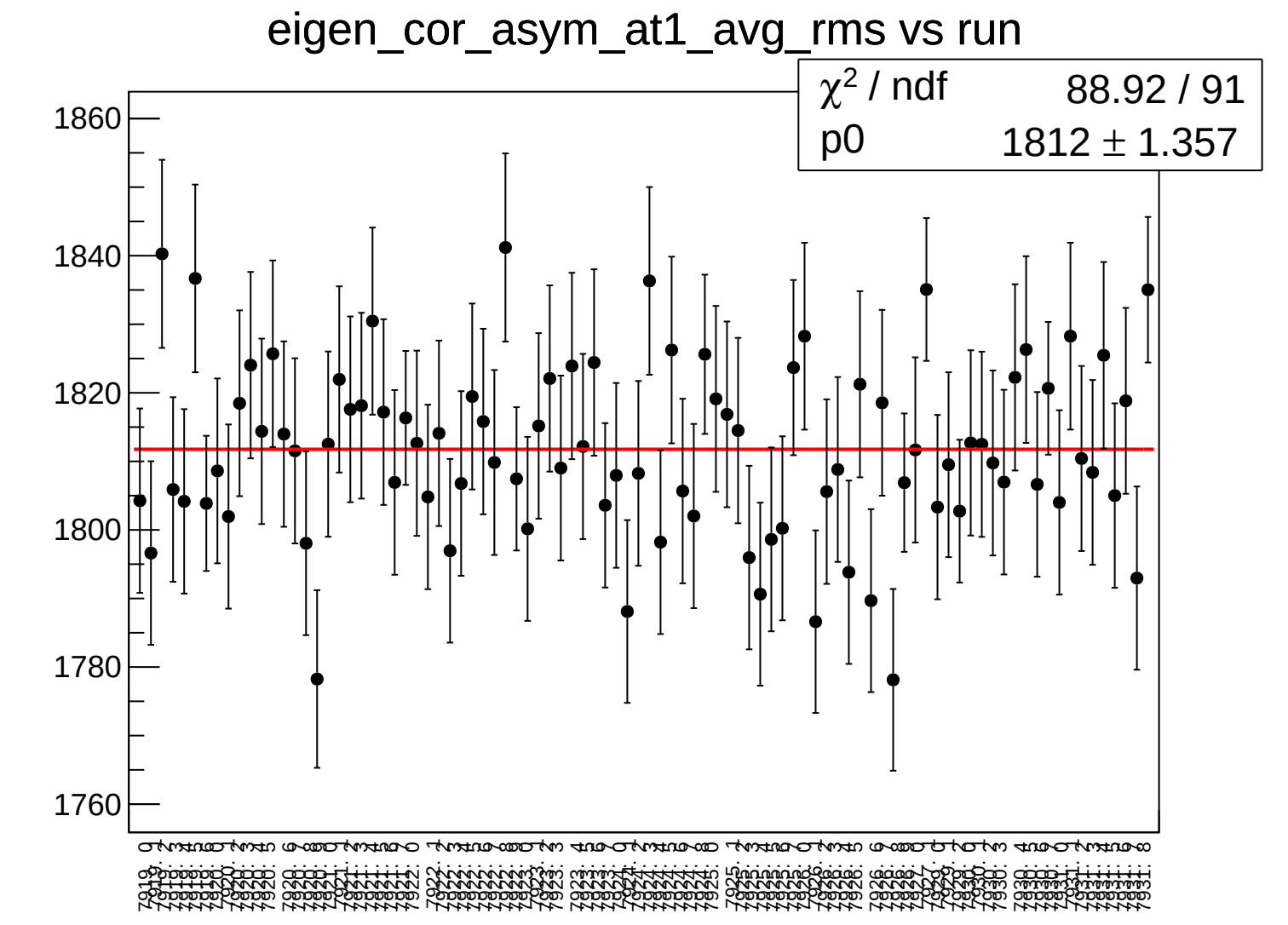

cor_asym_at1_avg_rms vs run
χ² / ndf 88.92 / 91
p0 1812 ± 1.357
1860
1840
1820
1800
1780
1760

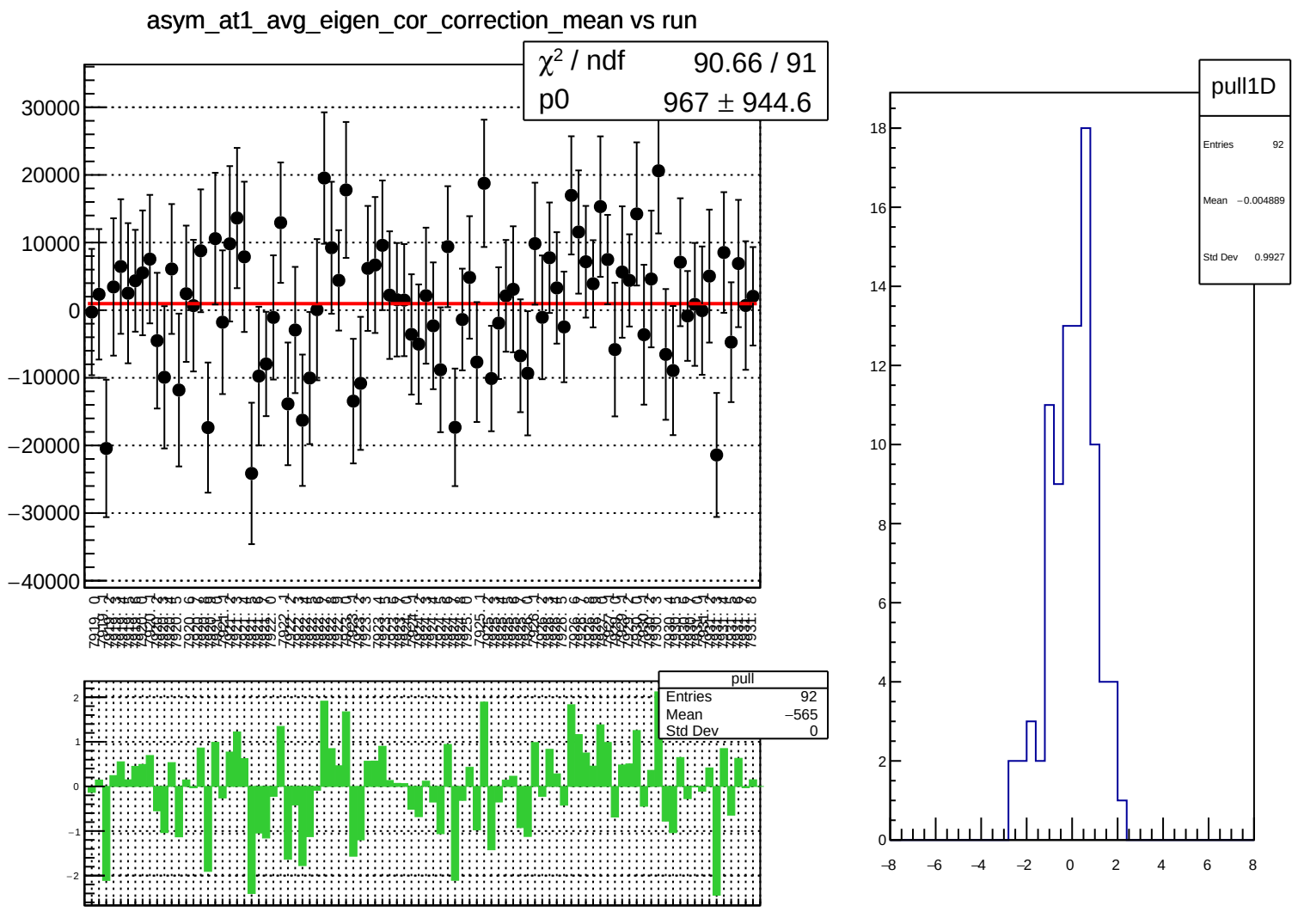

asym_at1_avg_cor_correction_mean vs run
χ² / ndf 90.66 / 91
p0 967 ± 944.6
pull
Entries 92
Mean −565
Std Dev 0

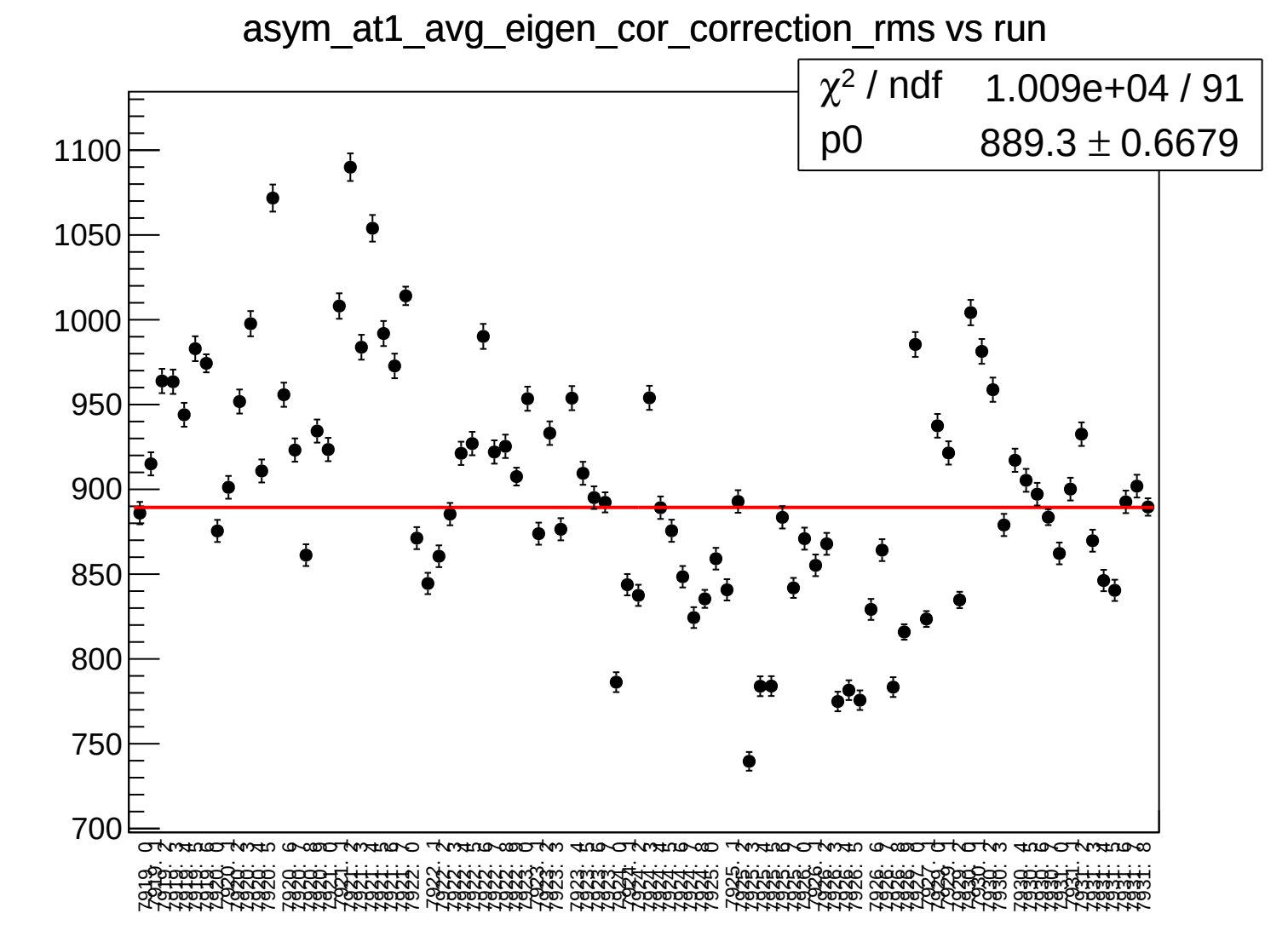

pull1D
Entries 92
Mean −0.004889
Std Dev 0.9927

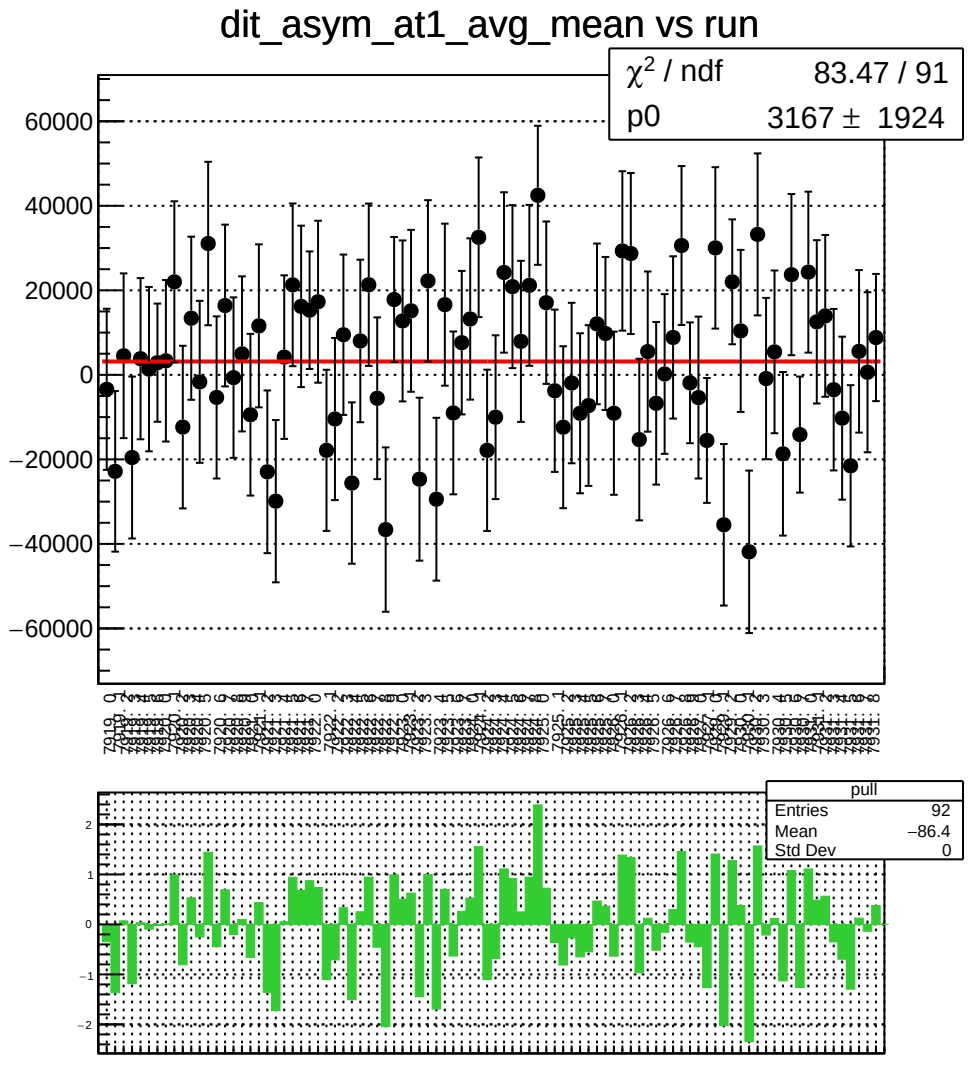

asym_at1_avg_cor_correction_rms vs run
χ² / ndf 1.009e+04 / 91
p0 889.3 ± 0.6679
1100
1050
1000
950
900
850
800
750
700

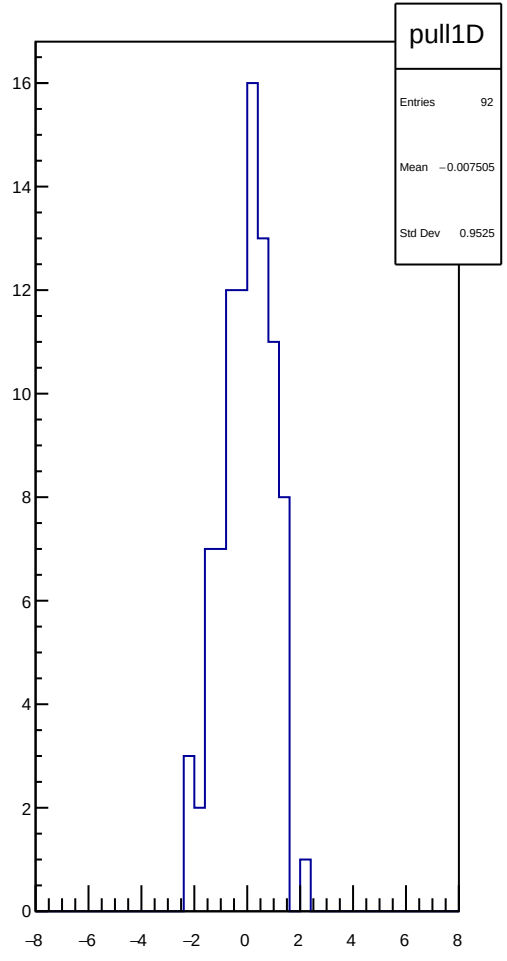

eigen_cor_asym_at1_avg_mean vs run
χ² / ndf 82.04 / 91
p0 3236 ± 1919
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −110.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.006667
Std Dev 0.9443
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

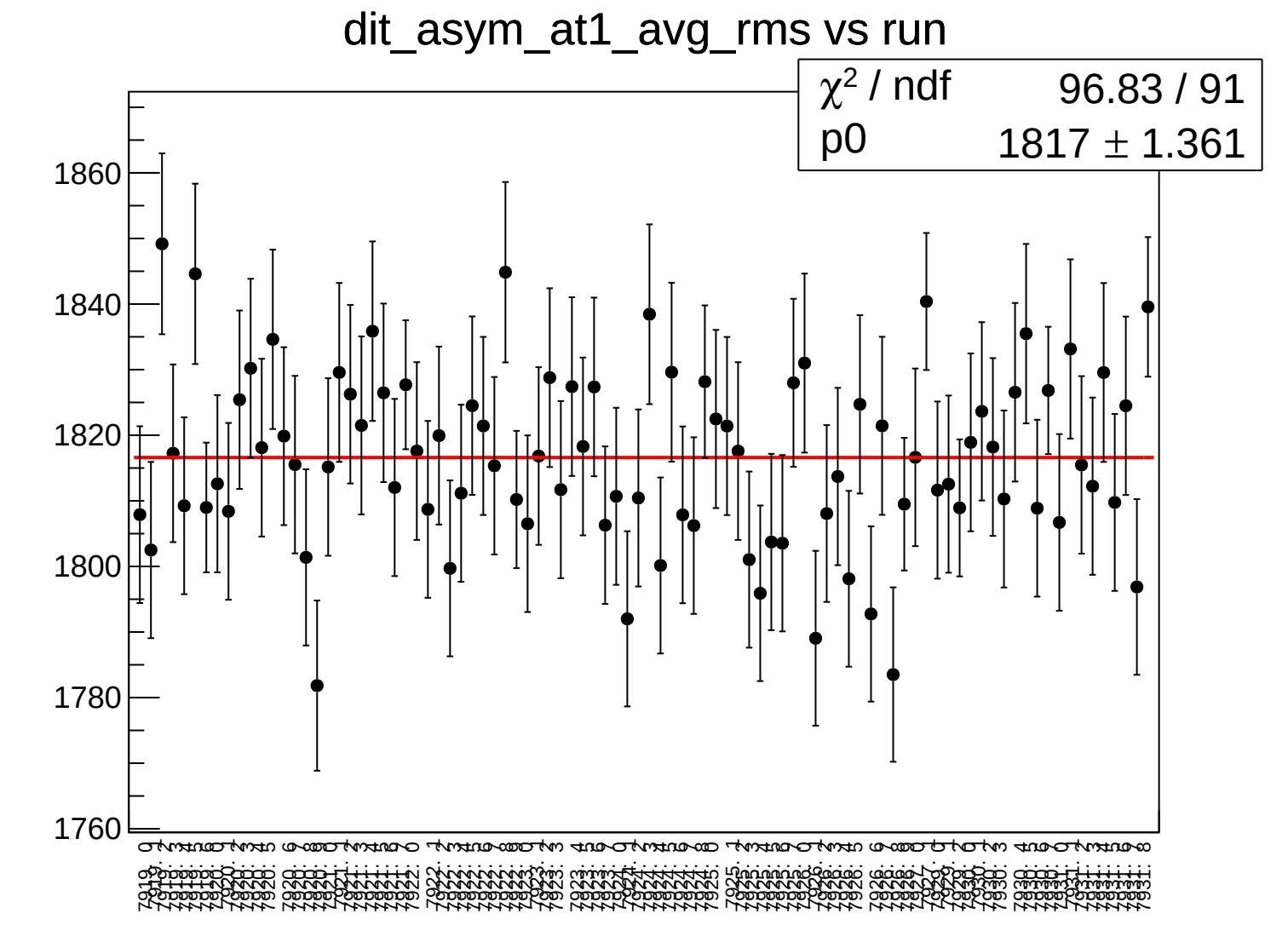

eigen_cor_asym_at1_avg_rms vs run
χ² / ndf 88.92 / 91
p0 1812 ± 1.357
1860
1840
1820
1800
1780
1760

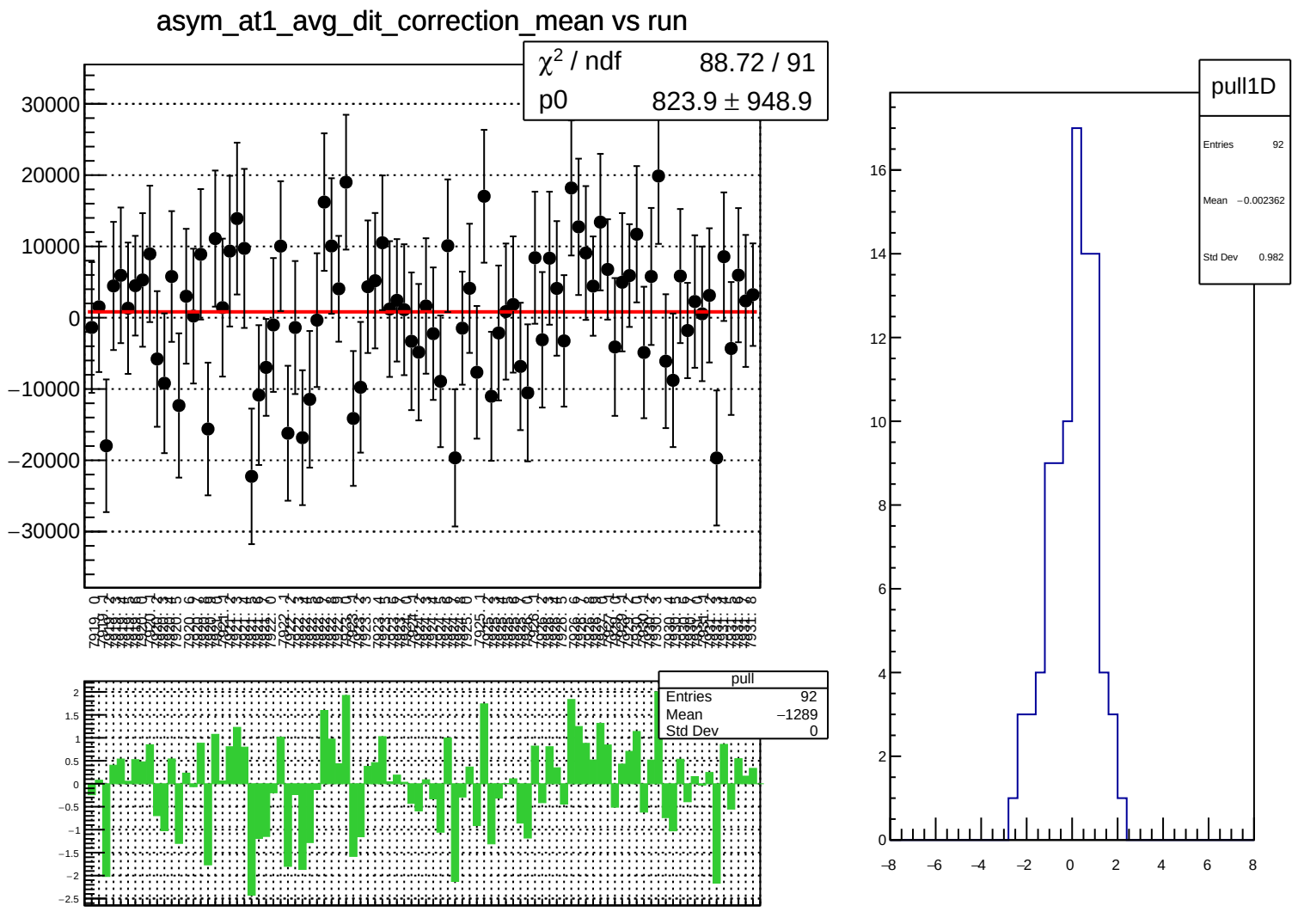

asym_at1_avg_eigen_cor_correction_mean vs run
χ² / ndf 90.66 / 91
p0 967 ± 944.6
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 92
Mean −565
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.004889
Std Dev 0.9927
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

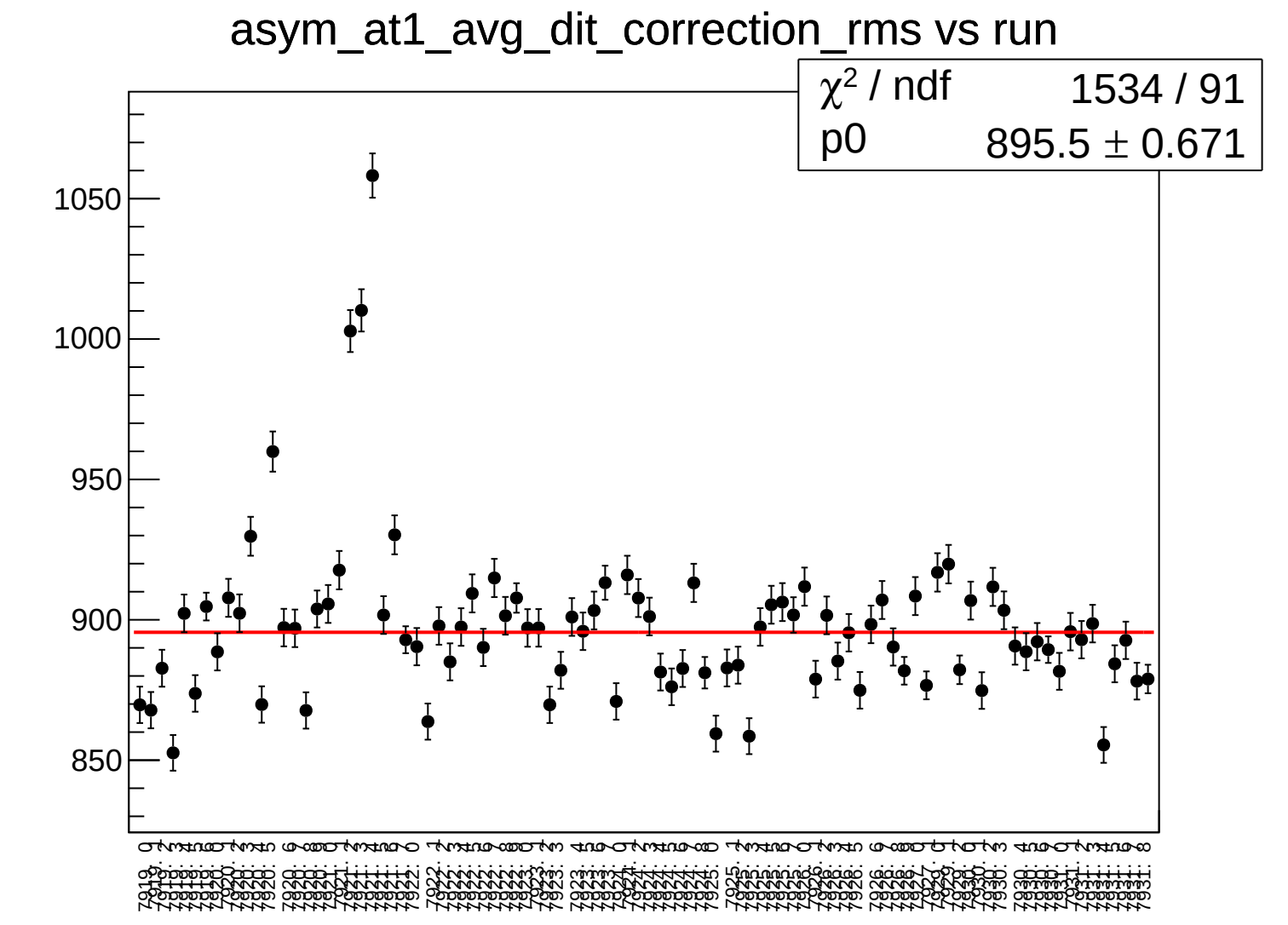

asym_at1_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.009e+04 / 91
p0 889.3 ± 0.6679
1100
1050
1000
950
900
850
800
750
700

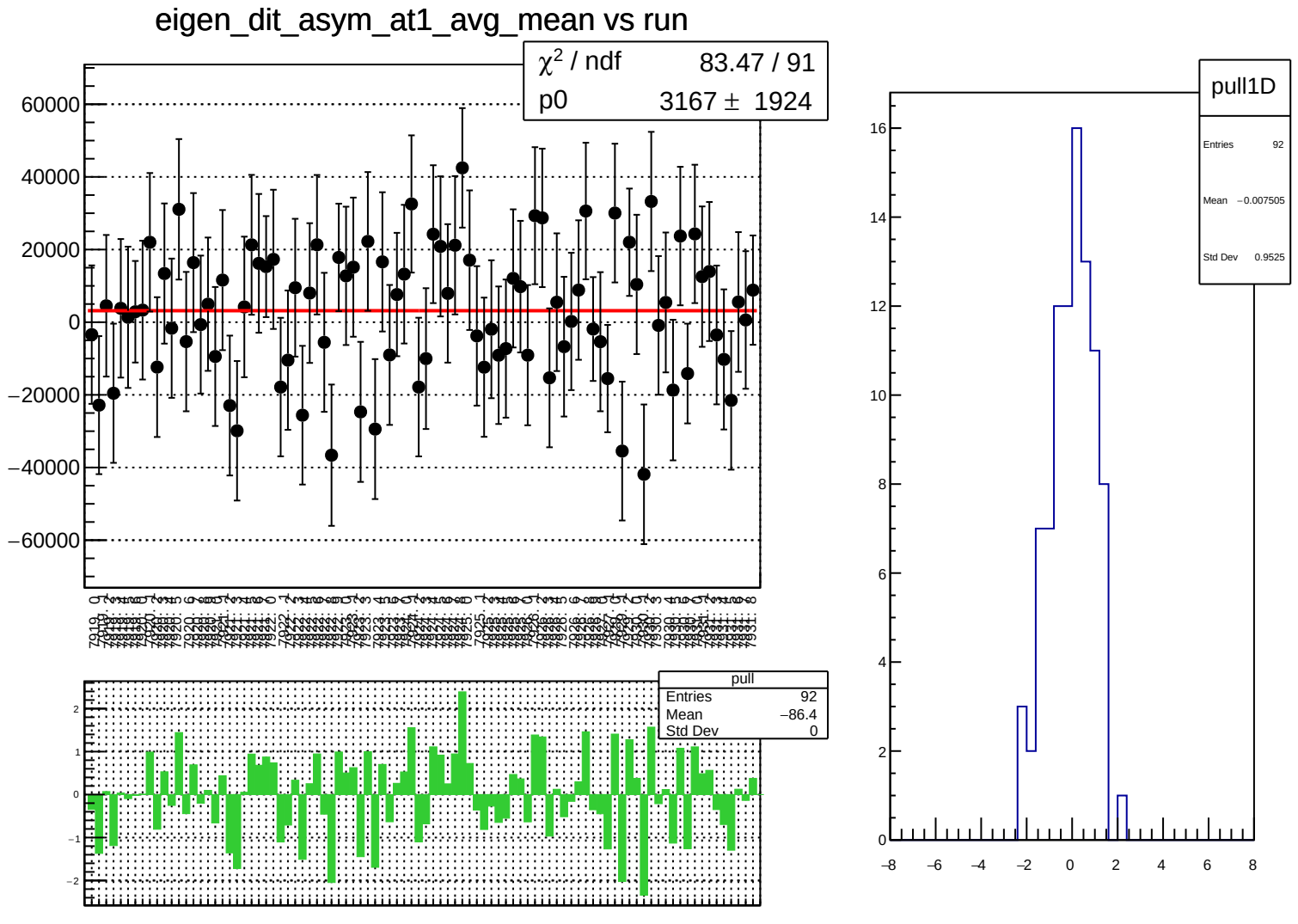

dit_asym_at1_avg_mean vs run
χ² / ndf 83.47 / 91
p0 3167 ± 1924
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −86.4
Std Dev 0
2
1
0
−1
−2

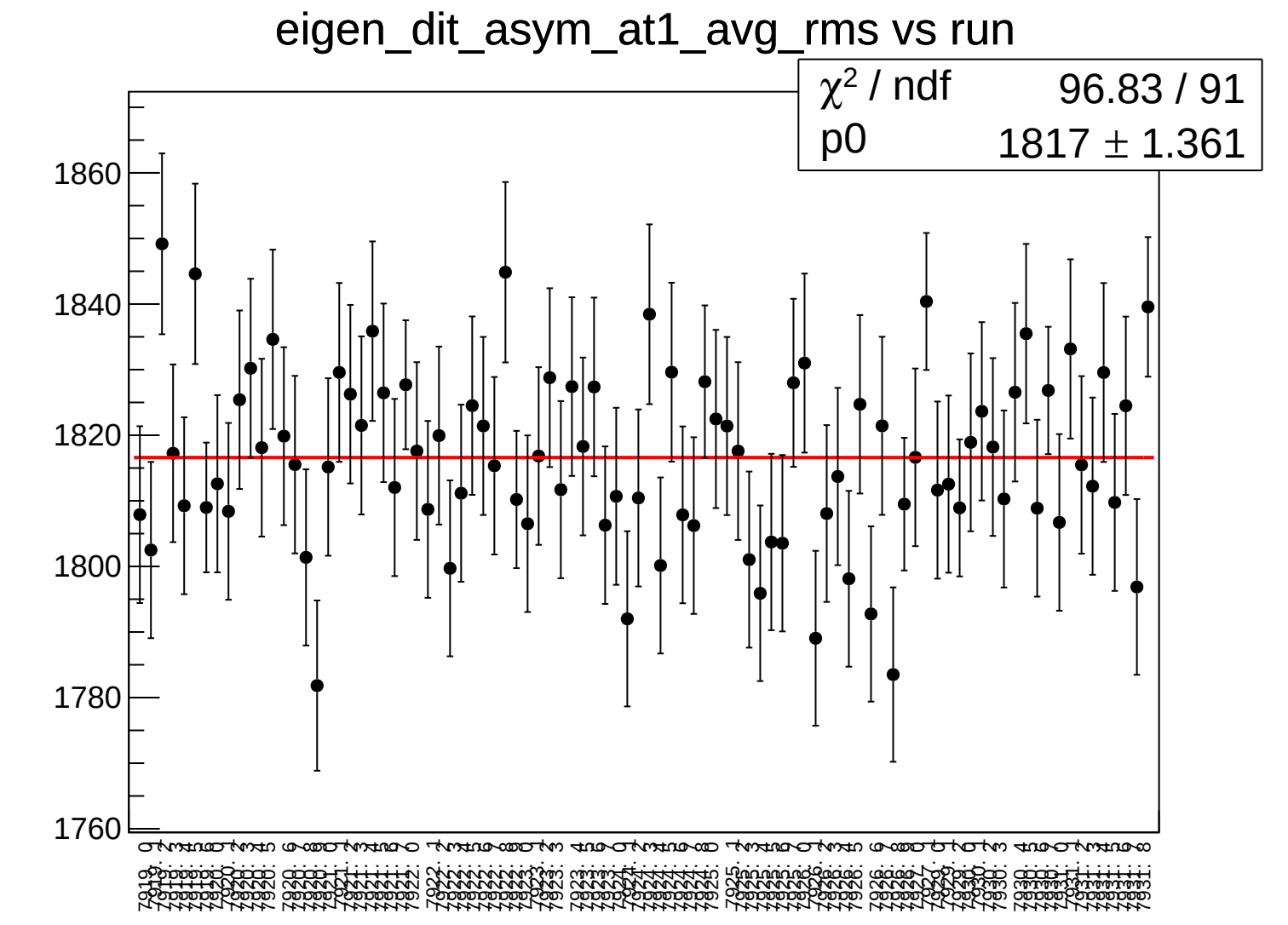

pull1D
Entries 92
Mean −0.007505
Std Dev 0.9525
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

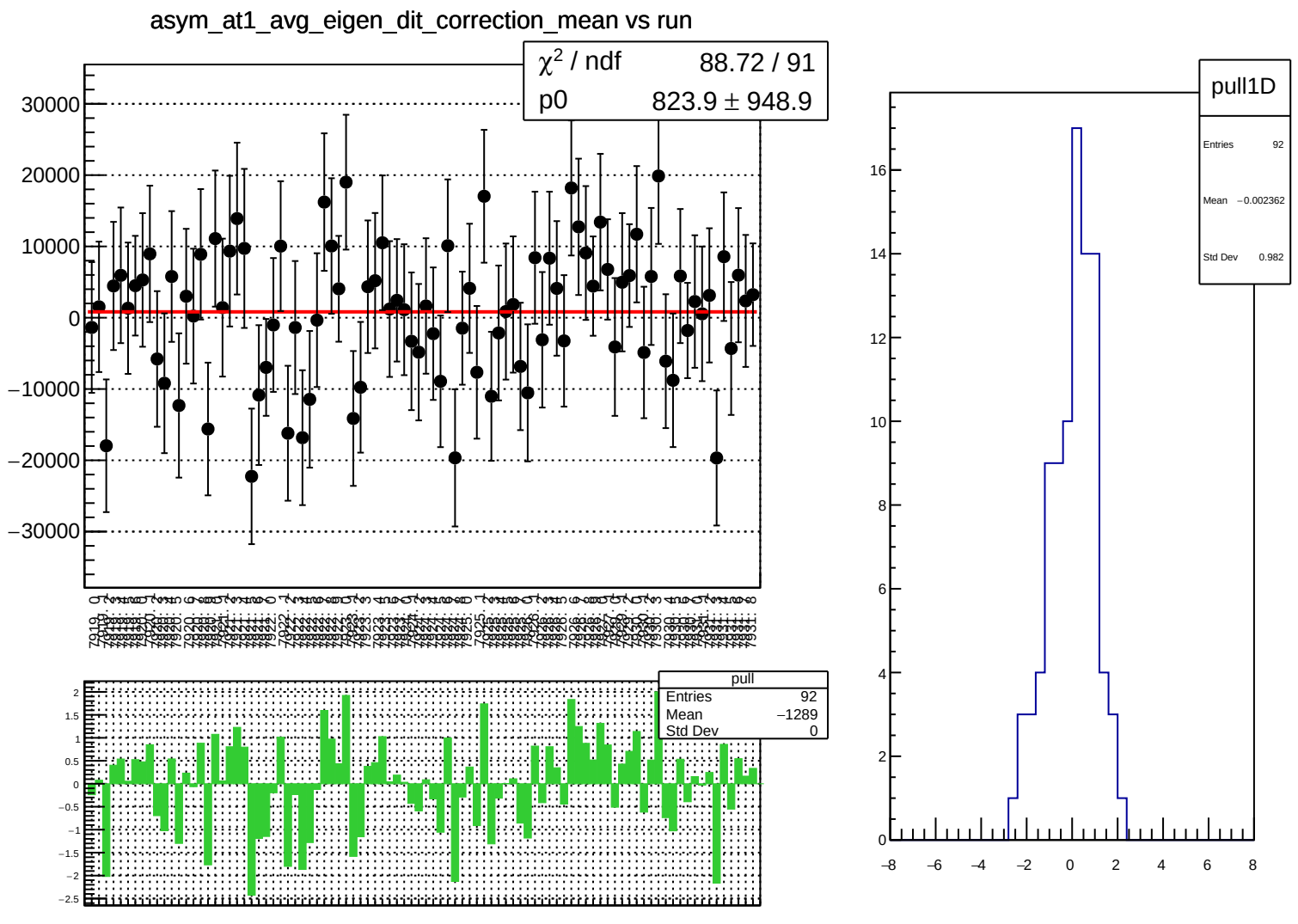

dit_asym_at1_avg_rms vs run
χ^2 / ndf 96.83 / 91
p0 1817 ± 1.361
1860
1840
1820
1800
1780
1760

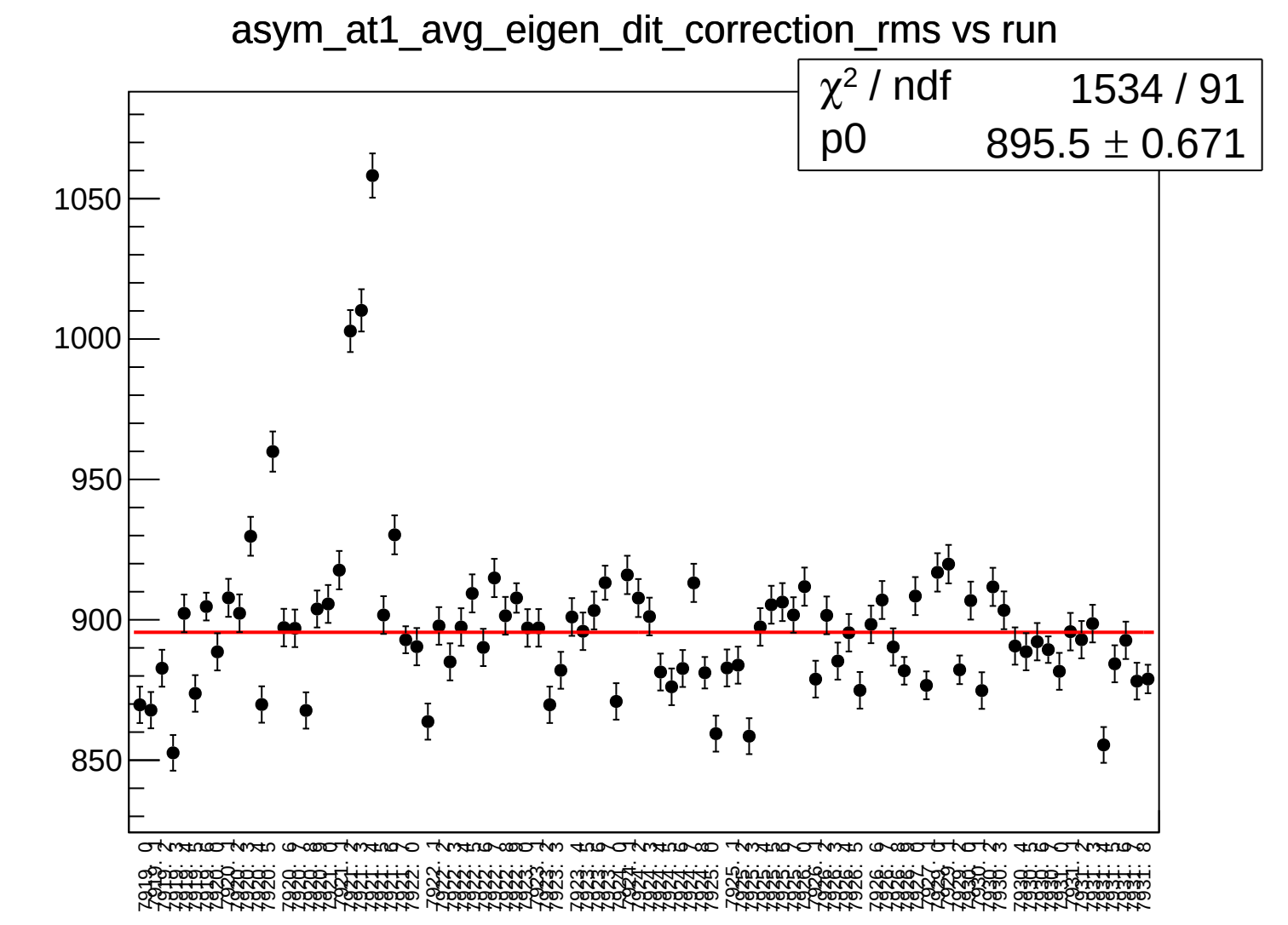

asym_at1_avg_dit_correction_mean vs run
χ² / ndf 88.72 / 91
p0 823.9 ± 948.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −1289
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 92
Mean −0.002362
Std Dev 0.982
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

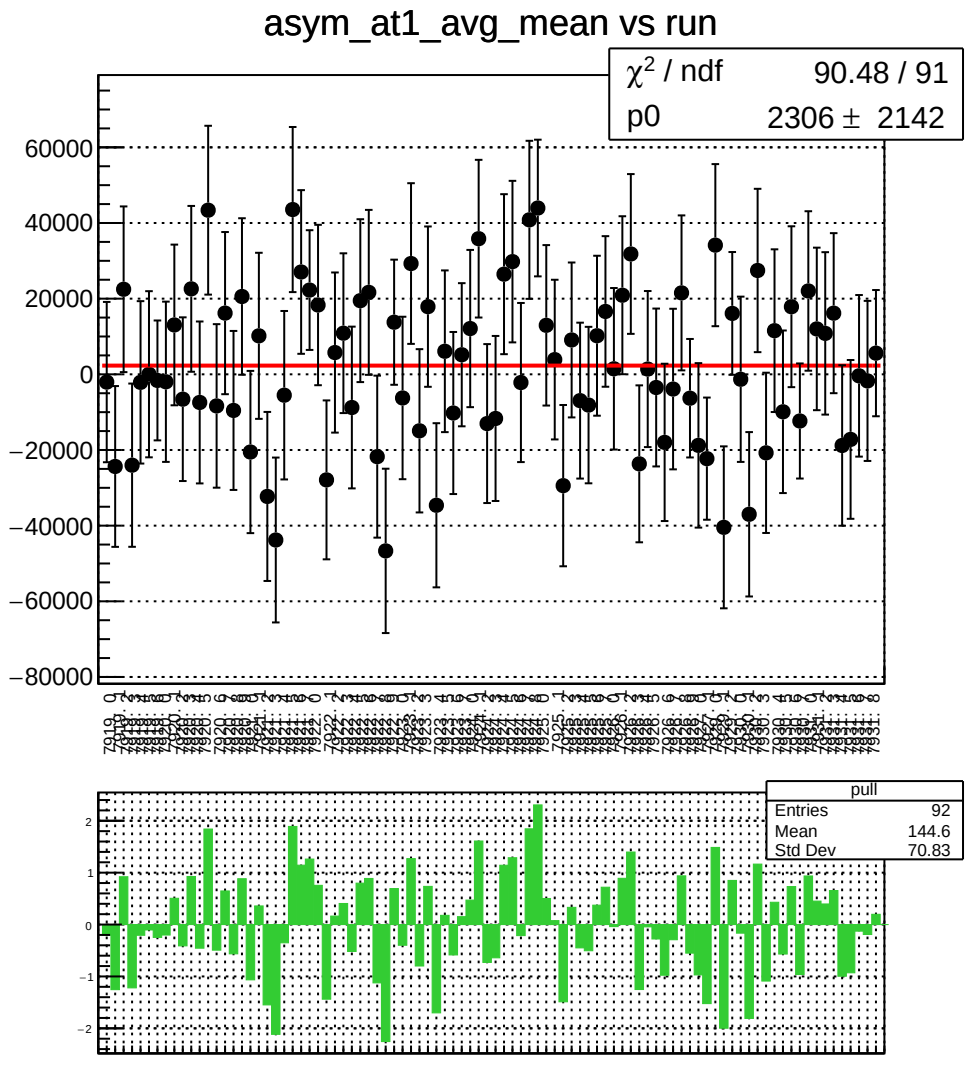

asym_at1_avg_dit_correction_rms vs run
χ² / ndf 1534 / 91
p0 895.5 ± 0.671
1050
1000
950
900
850

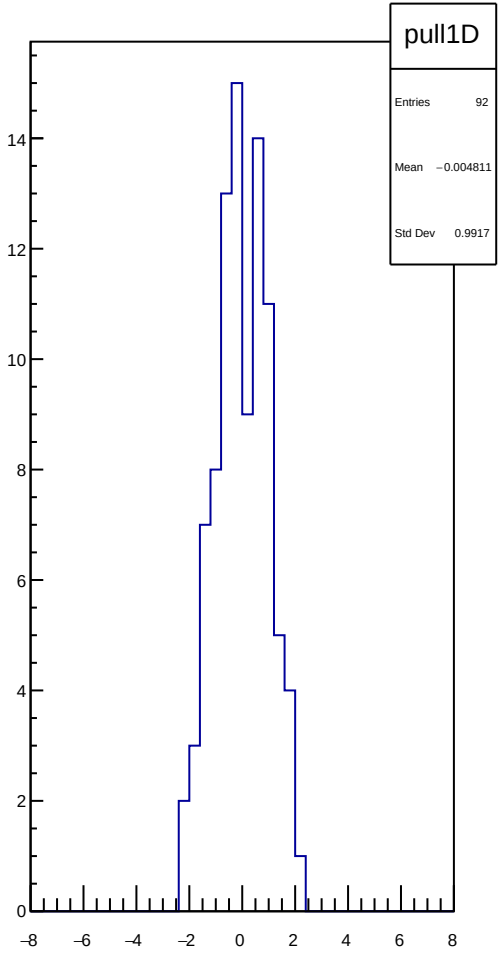

eigen_dit_asym_at1_avg_mean vs run
χ² / ndf 83.47 / 91
p0 3167 ± 1924
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −86.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.007505
Std Dev 0.9525
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

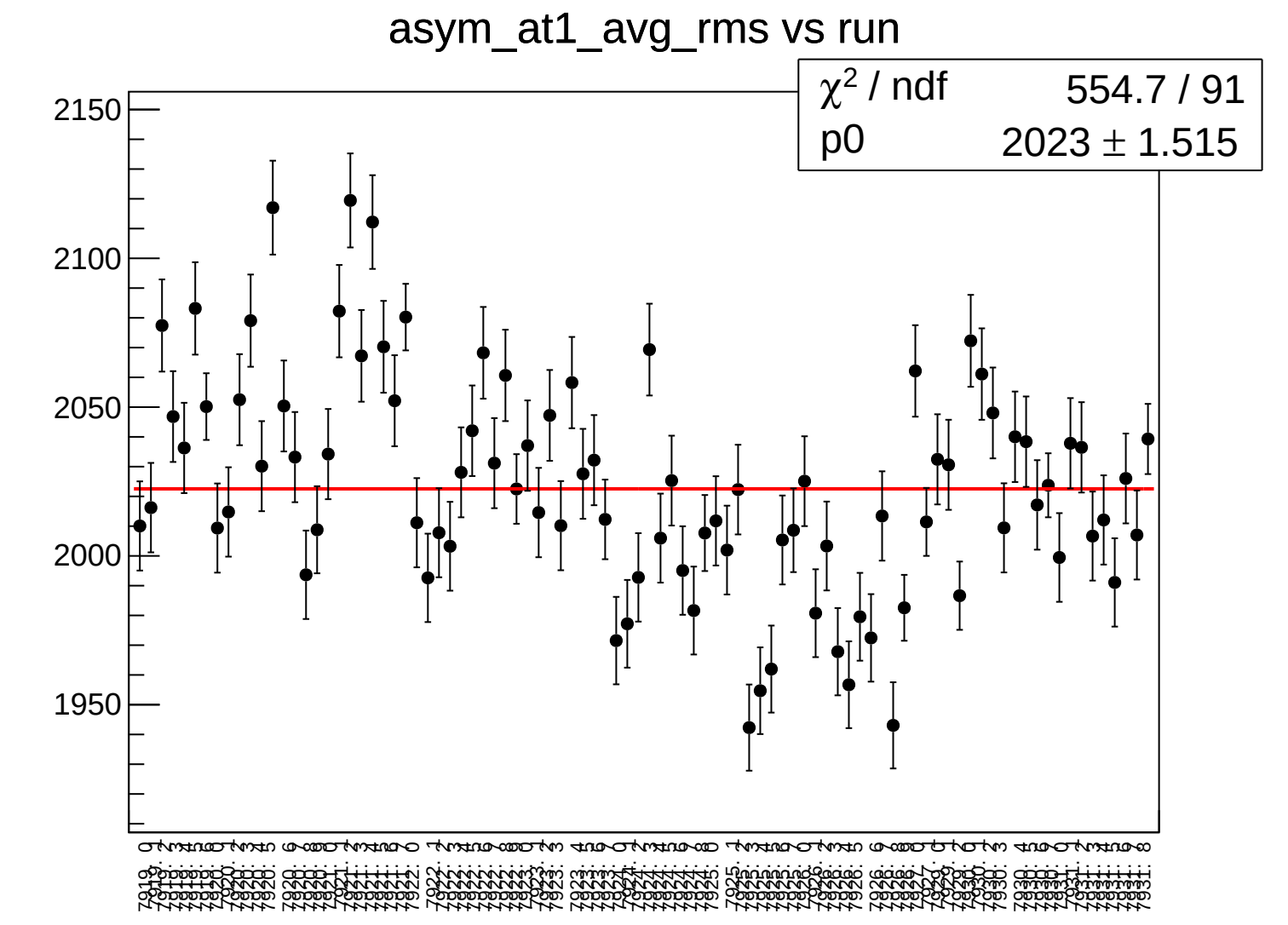

eigen_dit_asym_at1_avg_rms vs run
χ² / ndf 96.83 / 91
p0 1817 ± 1.361
1860
1840
1820
1800
1780
1760

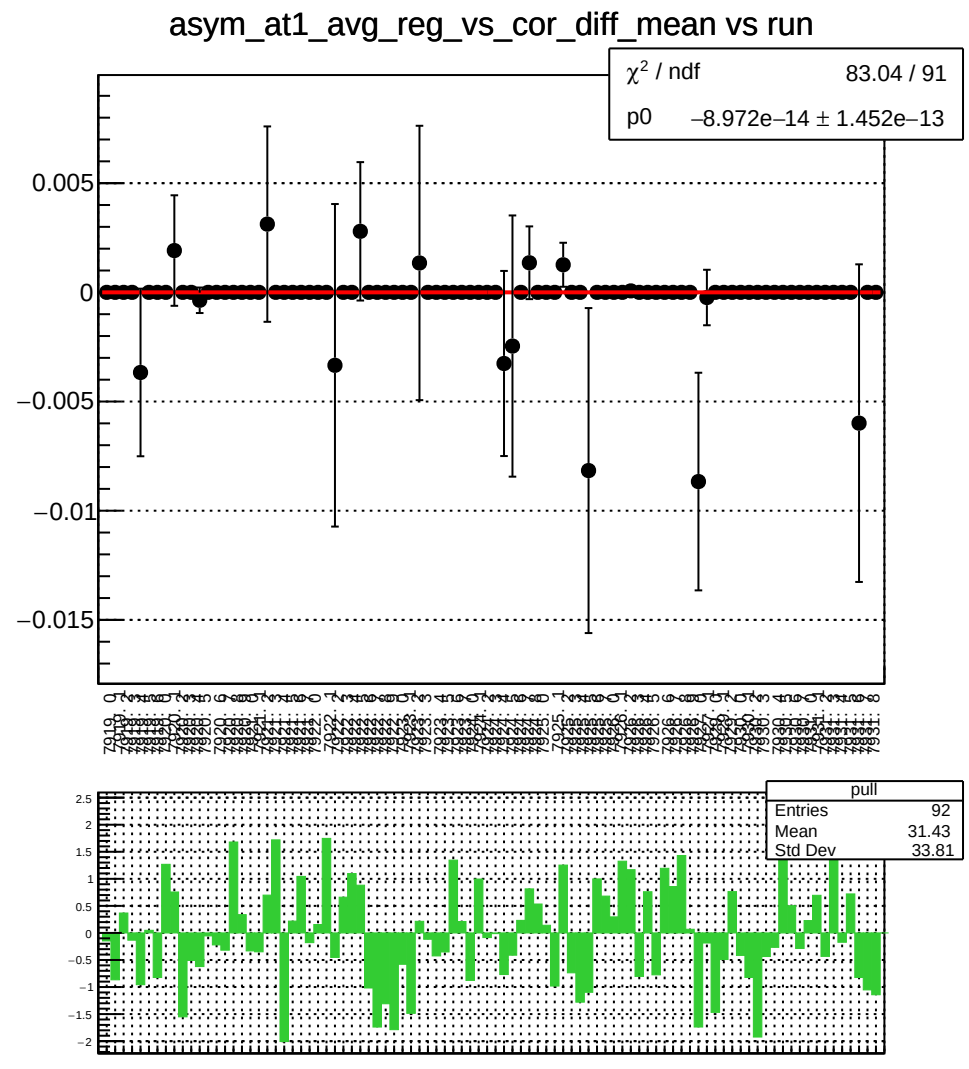

asym_at1_avg_eigen_dit_correction_mean vs run
χ² / ndf 88.72 / 91
p0 823.9 ± 948.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −1289
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 92
Mean −0.002362
Std Dev 0.982
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

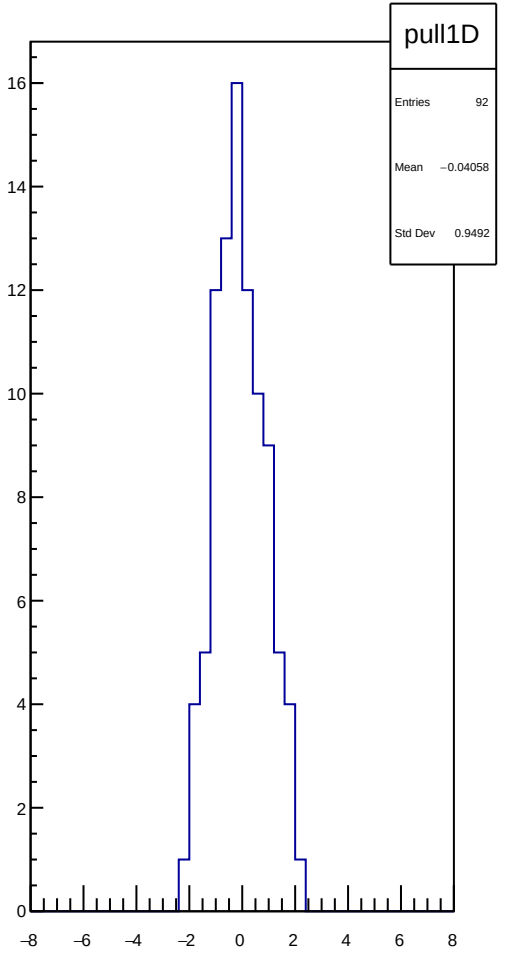

asym_at1_avg_eigen_dit_correction_rms vs run
χ² / ndf 1534 / 91
p0 895.5 ± 0.671
1050
1000
950
900
850

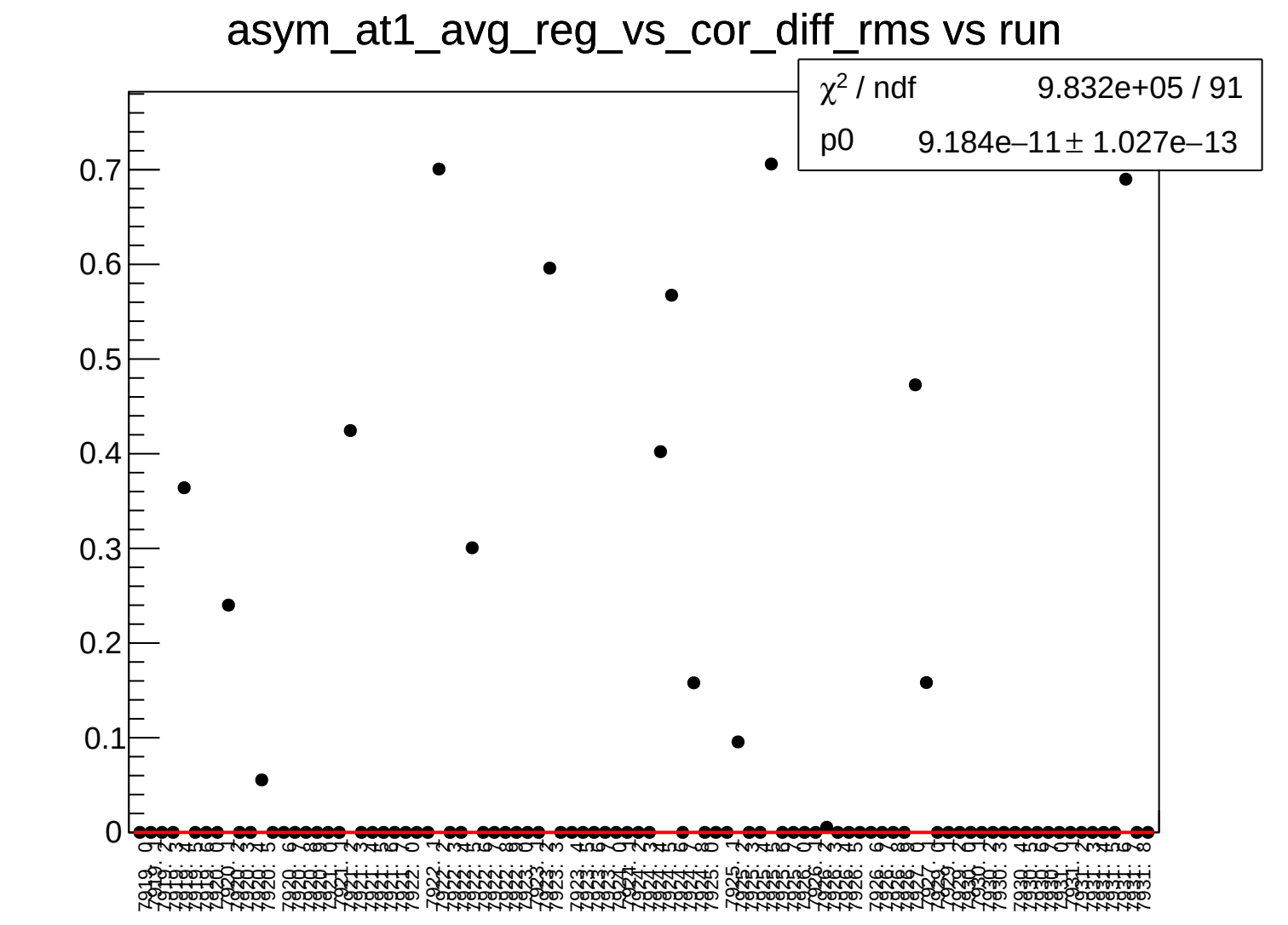

asym_at1_avg_mean vs run
χ² / ndf 90.48 / 91
p0 2306 ± 2142
pull
Entries 92
Mean 144.6
Std Dev 70.83

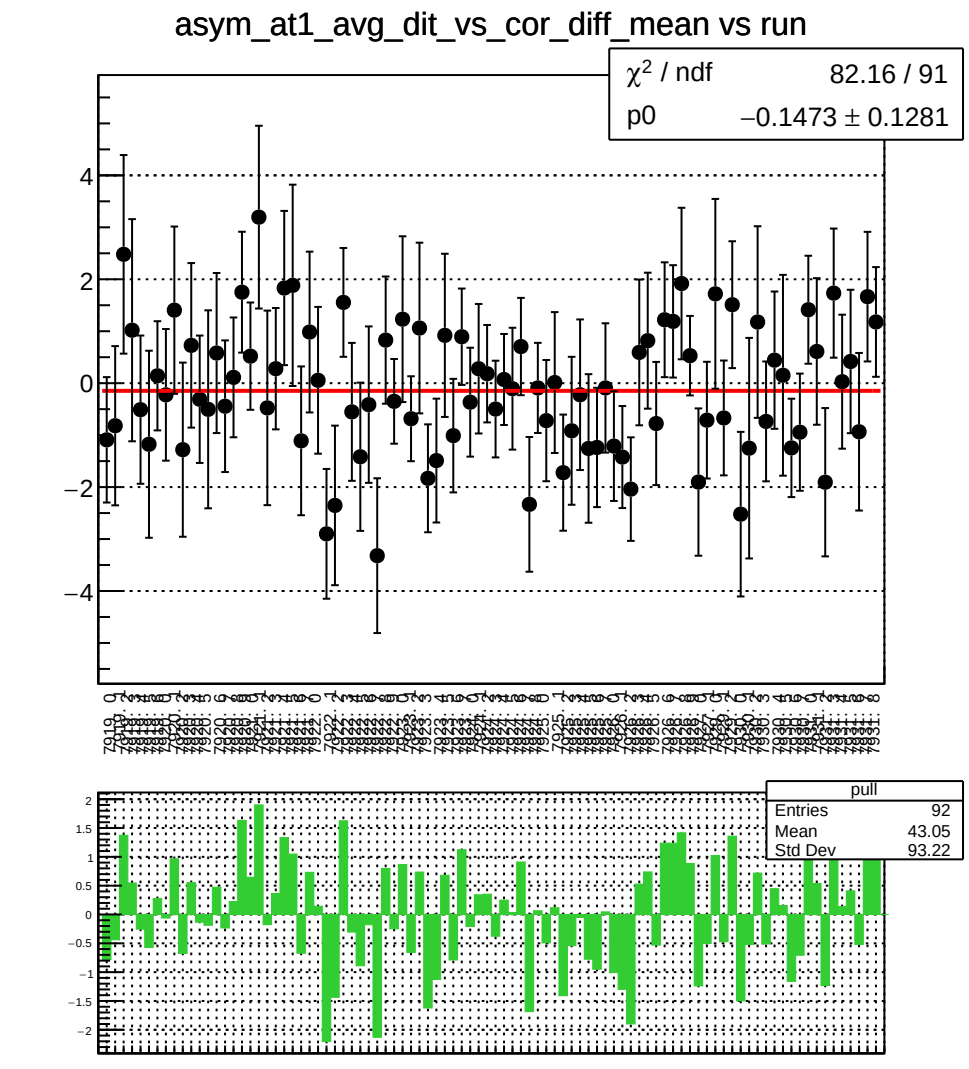

pull1D
Entries 92
Mean −0.004811
Std Dev 0.9917

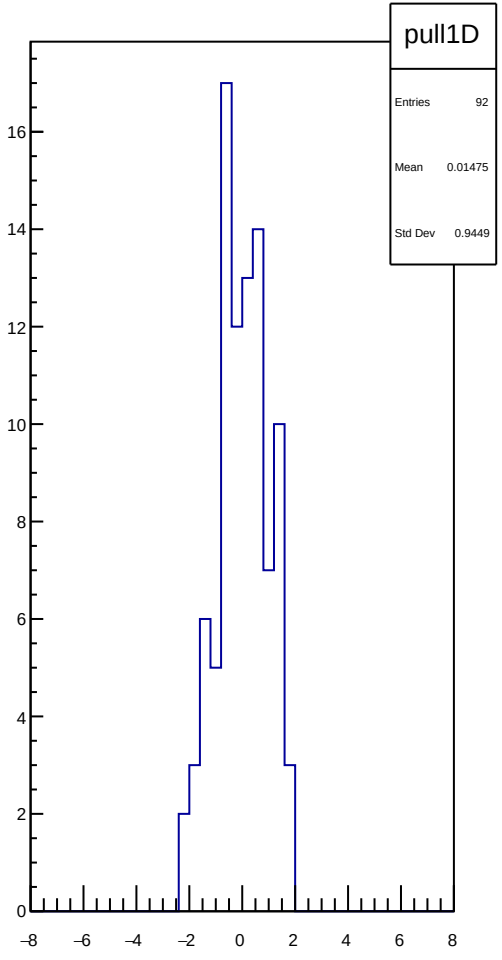

asym_at1_avg_rms vs run
χ^2 / ndf 554.7 / 91
p0 2023 ± 1.515
2150
2100
2050
2000
1950

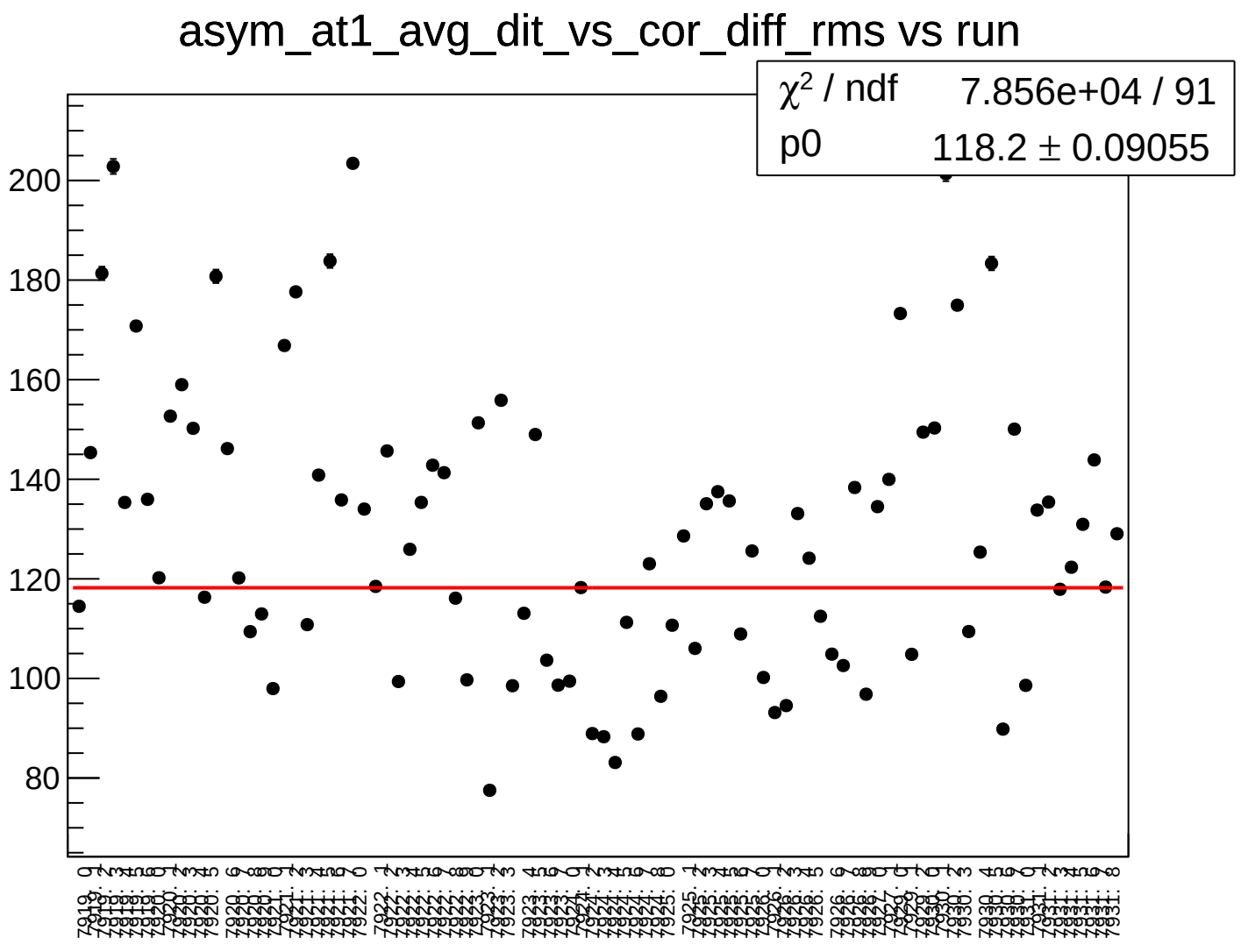

asym_at1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 83.04 / 91
p0 −8.972e−14 ± 1.452e−13
0.005
0
−0.005
−0.01
−0.015
pull
Entries 92
Mean 31.43
Std Dev 33.81
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

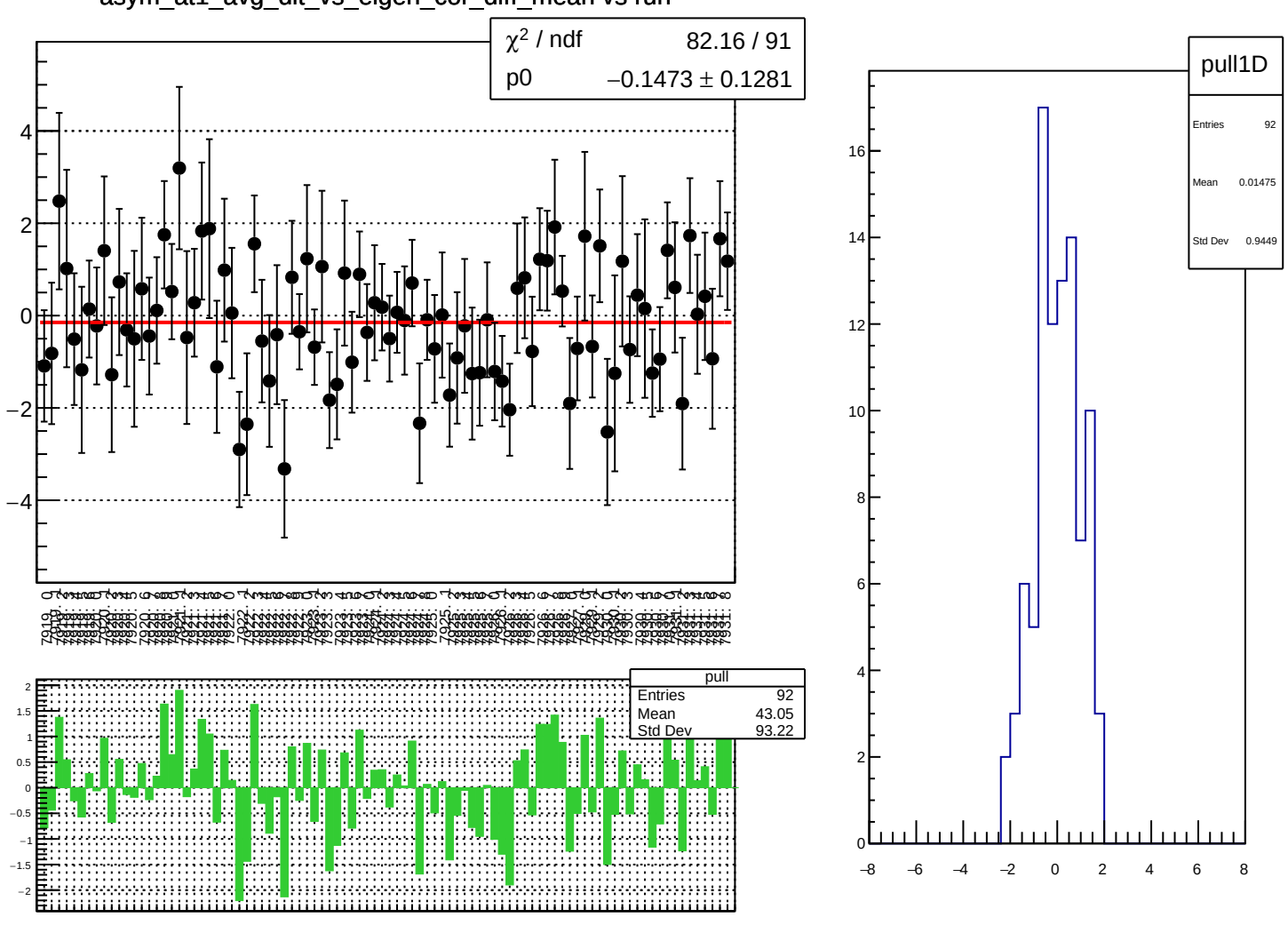

pull1D
Entries 92
Mean −0.04058
Std Dev 0.9492
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

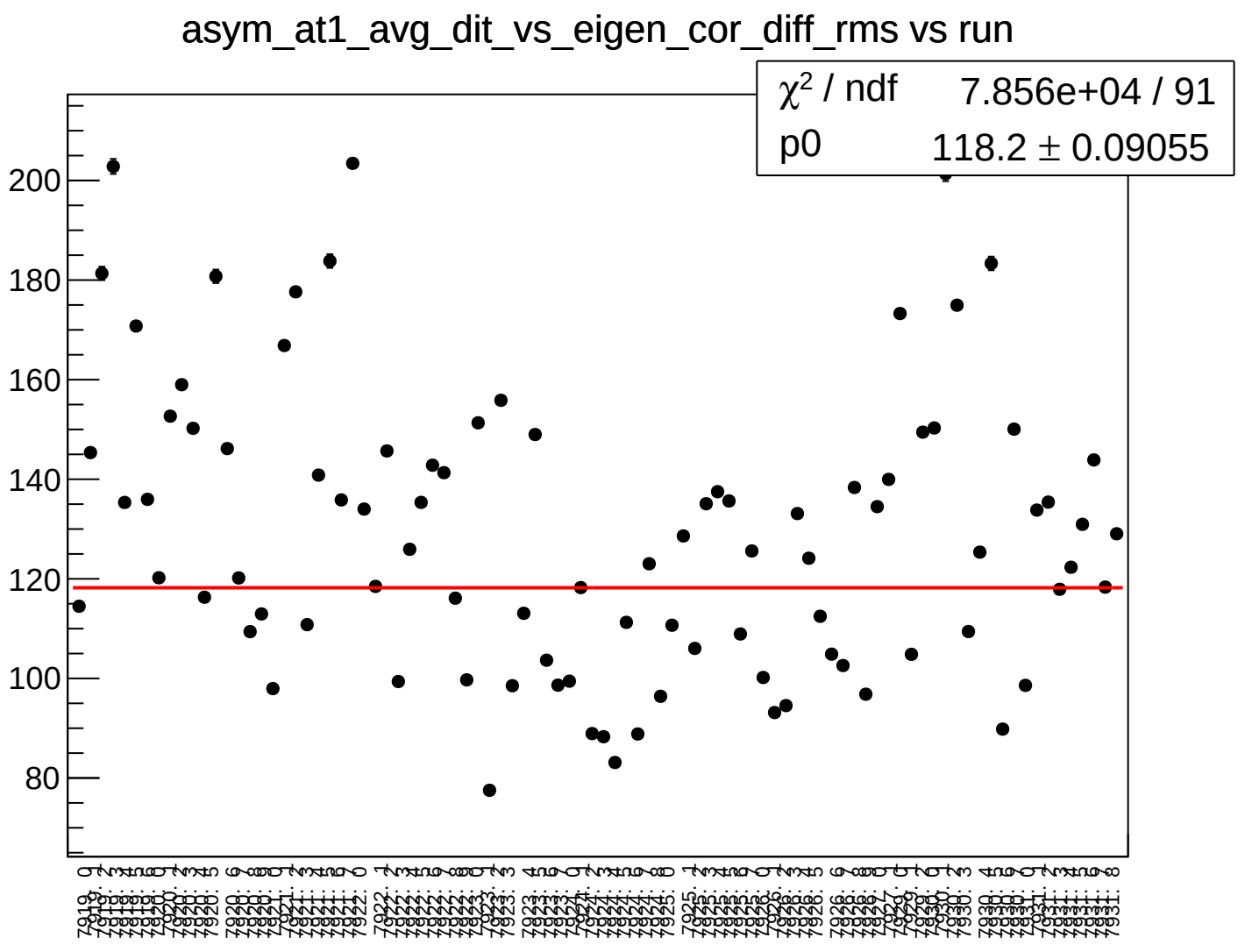

asym_at1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.832e+05 / 91
p0 9.184e−11 ± 1.027e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

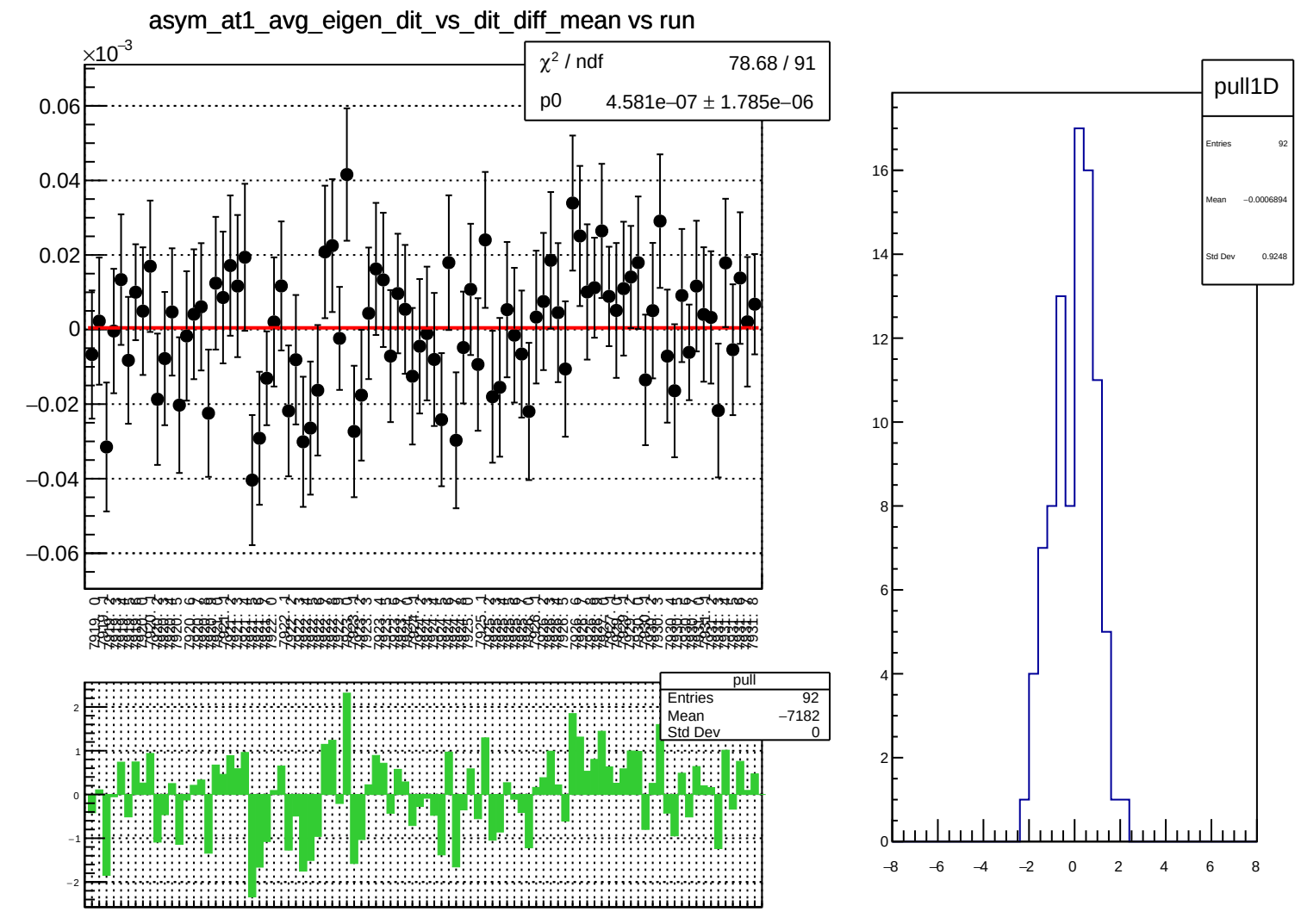

asym_at1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 82.16 / 91
p0 −0.1473 ± 0.1281
pull
Entries 92
Mean 43.05
Std Dev 93.22

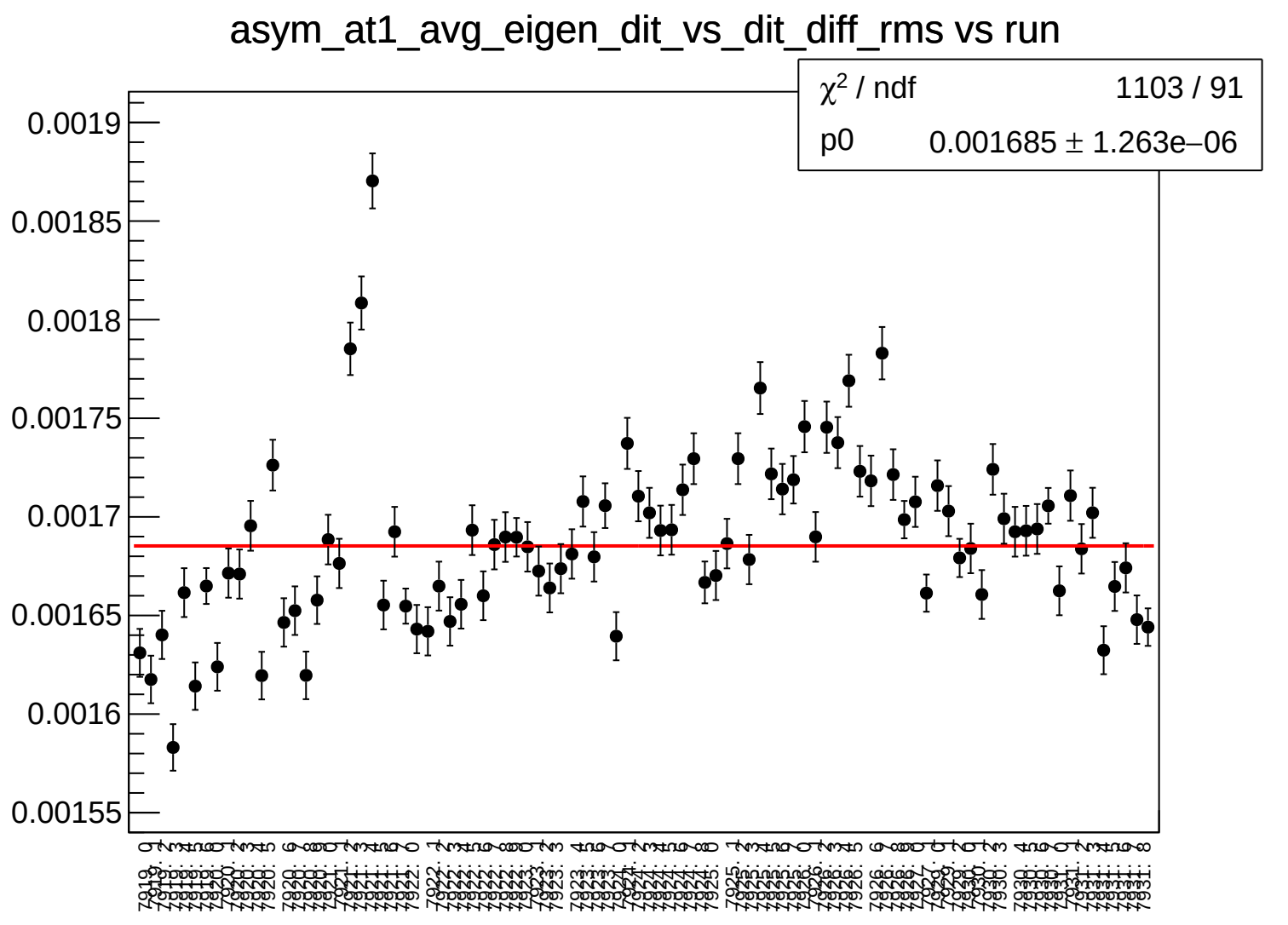

pull1D
Entries 92
Mean 0.01475
Std Dev 0.9449

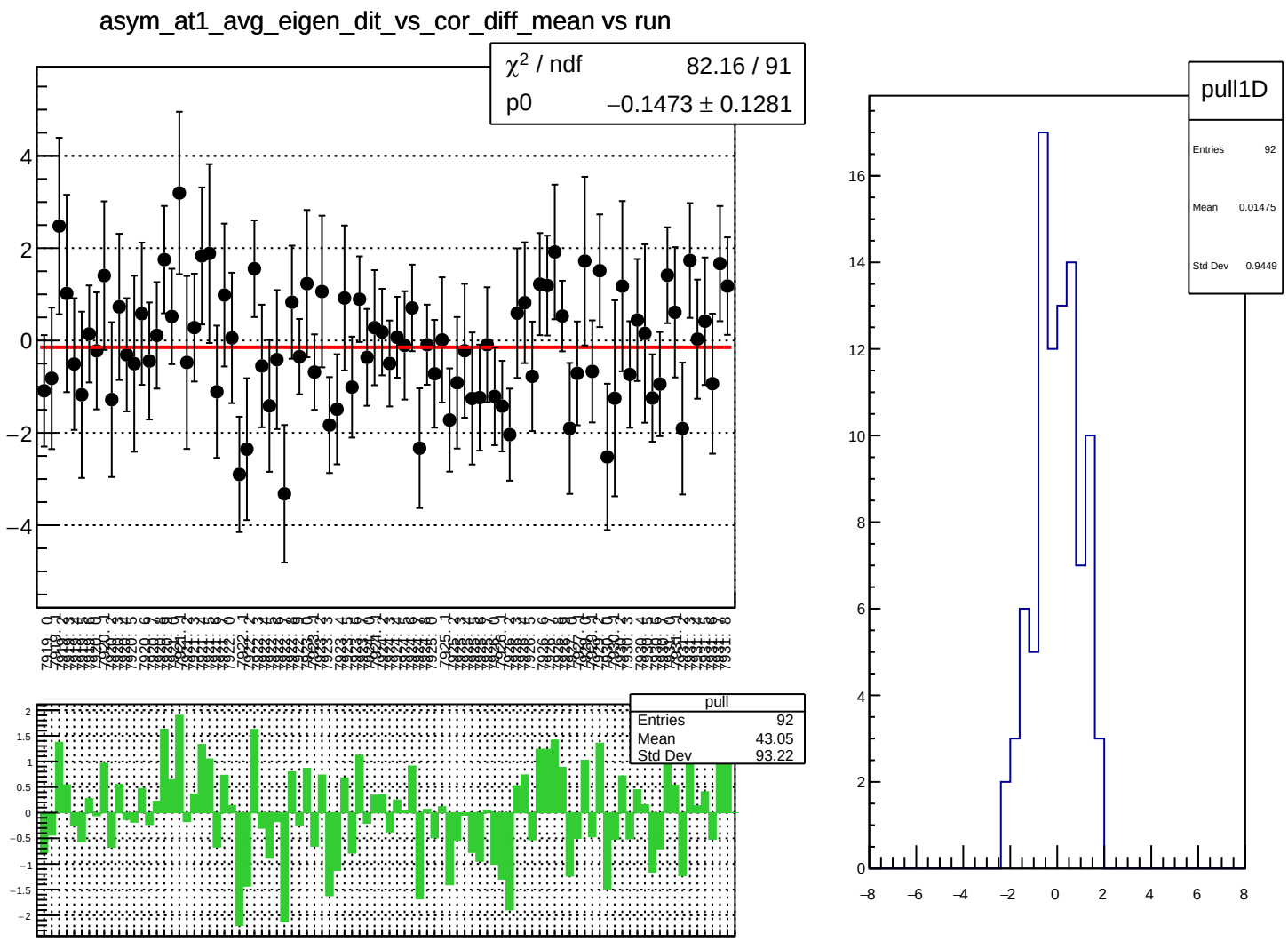

asym_at1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.856e+04 / 91
p0 118.2 ± 0.09055
200
180
160
140
120
100
80

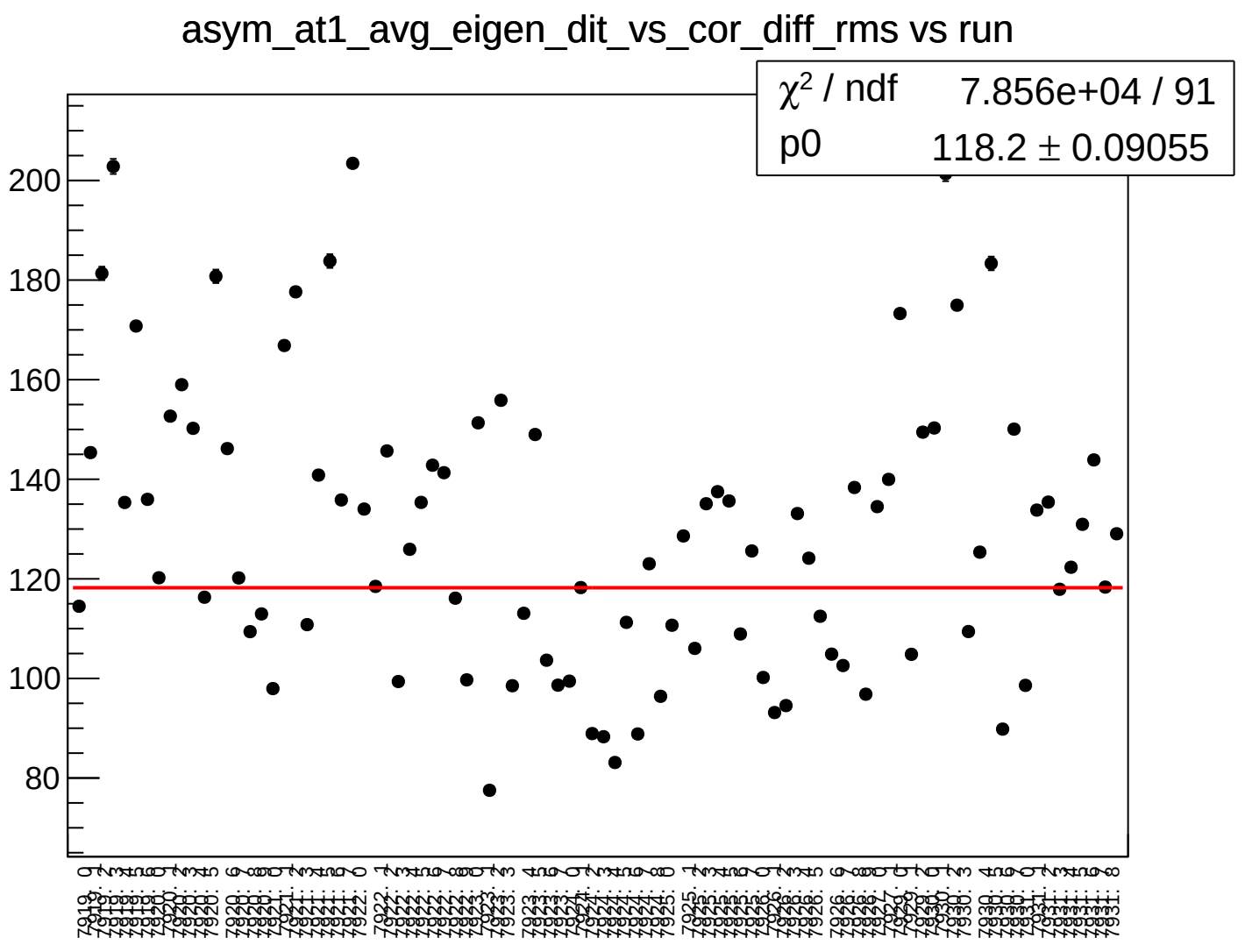

asym_at1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.16 / 91
p0 −0.1473 ± 0.1281
pull
Entries 92
Mean 43.05
Std Dev 93.22
pull1D
Entries 92
Mean 0.01475
Std Dev 0.9449

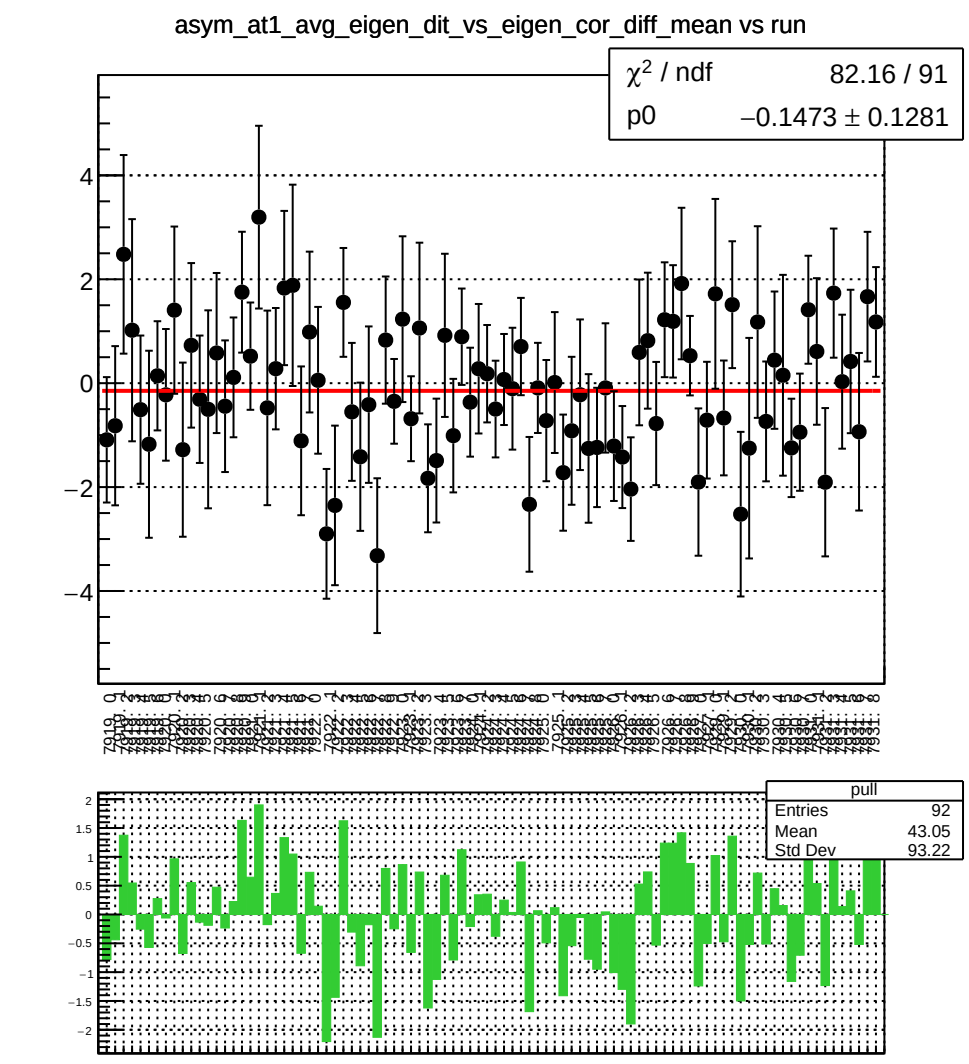

asym_at1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.856e+04 / 91
p0 118.2 ± 0.09055
200
180
160
140
120
100
80

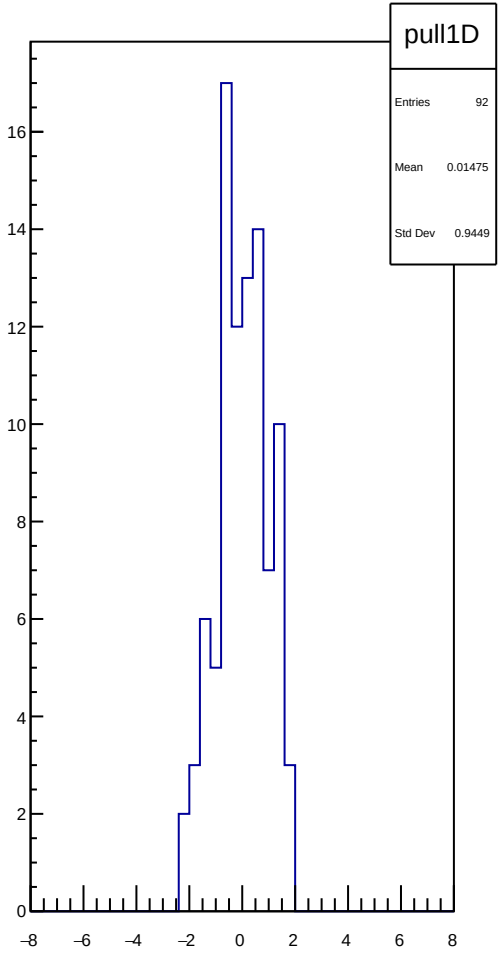

asym_at1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 78.68 / 91
p0 4.581e−07 ± 1.785e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 92
Mean −7182
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.0006894
Std Dev 0.9248
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

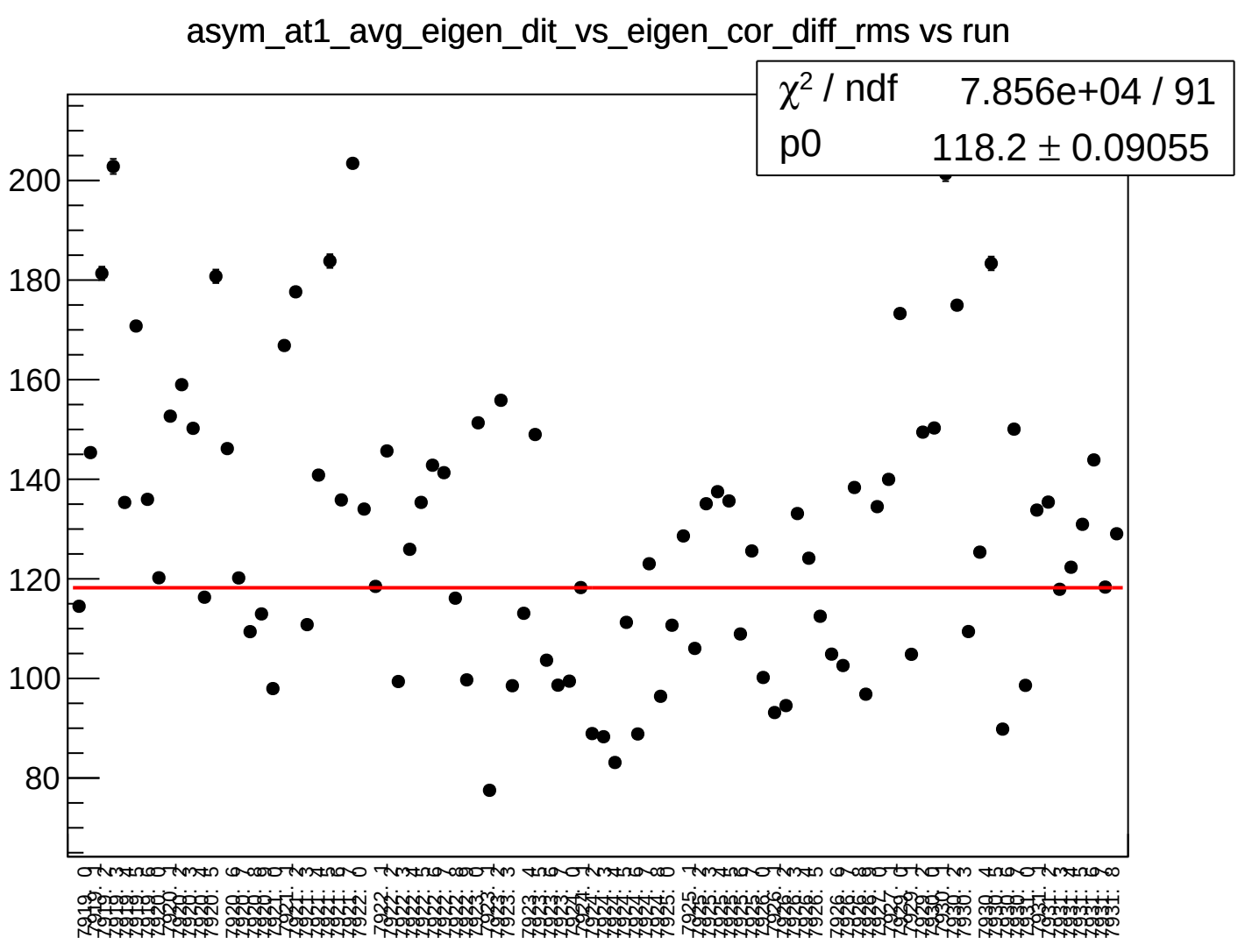

asym_at1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1103 / 91
p0 0.001685 ± 1.263e−06
0.0019
0.00185
0.0018
0.00175
0.0017
0.00165
0.0016
0.00155

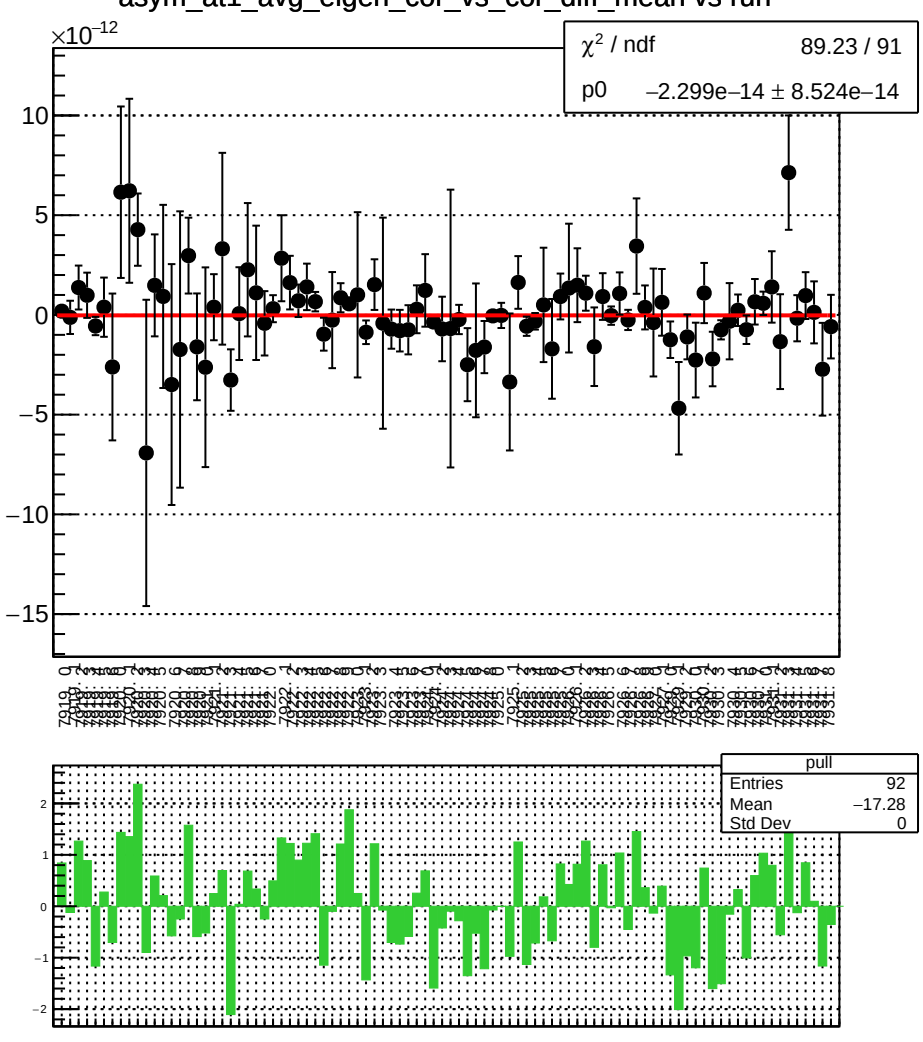

asym_at1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.16 / 91
p0 −0.1473 ± 0.1281
pull
Entries 92
Mean 43.05
Std Dev 93.22
pull1D
Entries 92
Mean 0.01475
Std Dev 0.9449

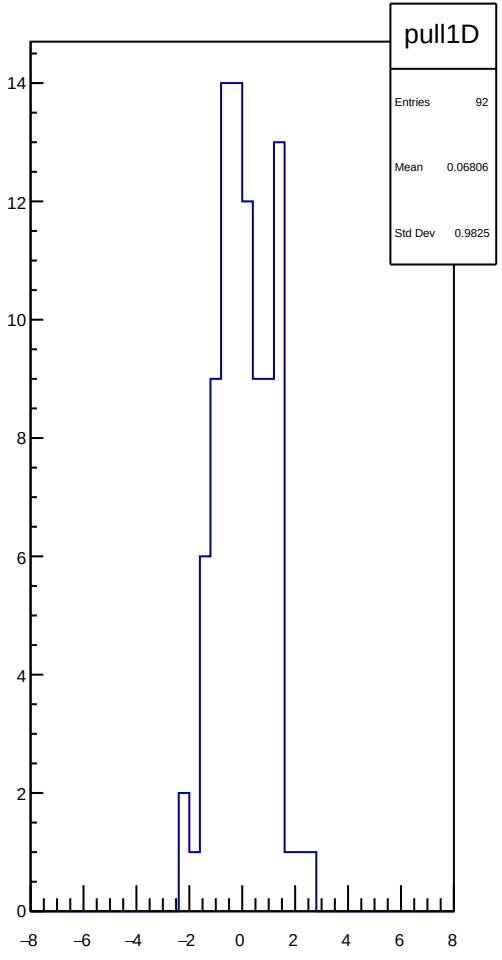

asym_at1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.856e+04 / 91
p0 118.2 ± 0.09055
200
180
160
140
120
100
80

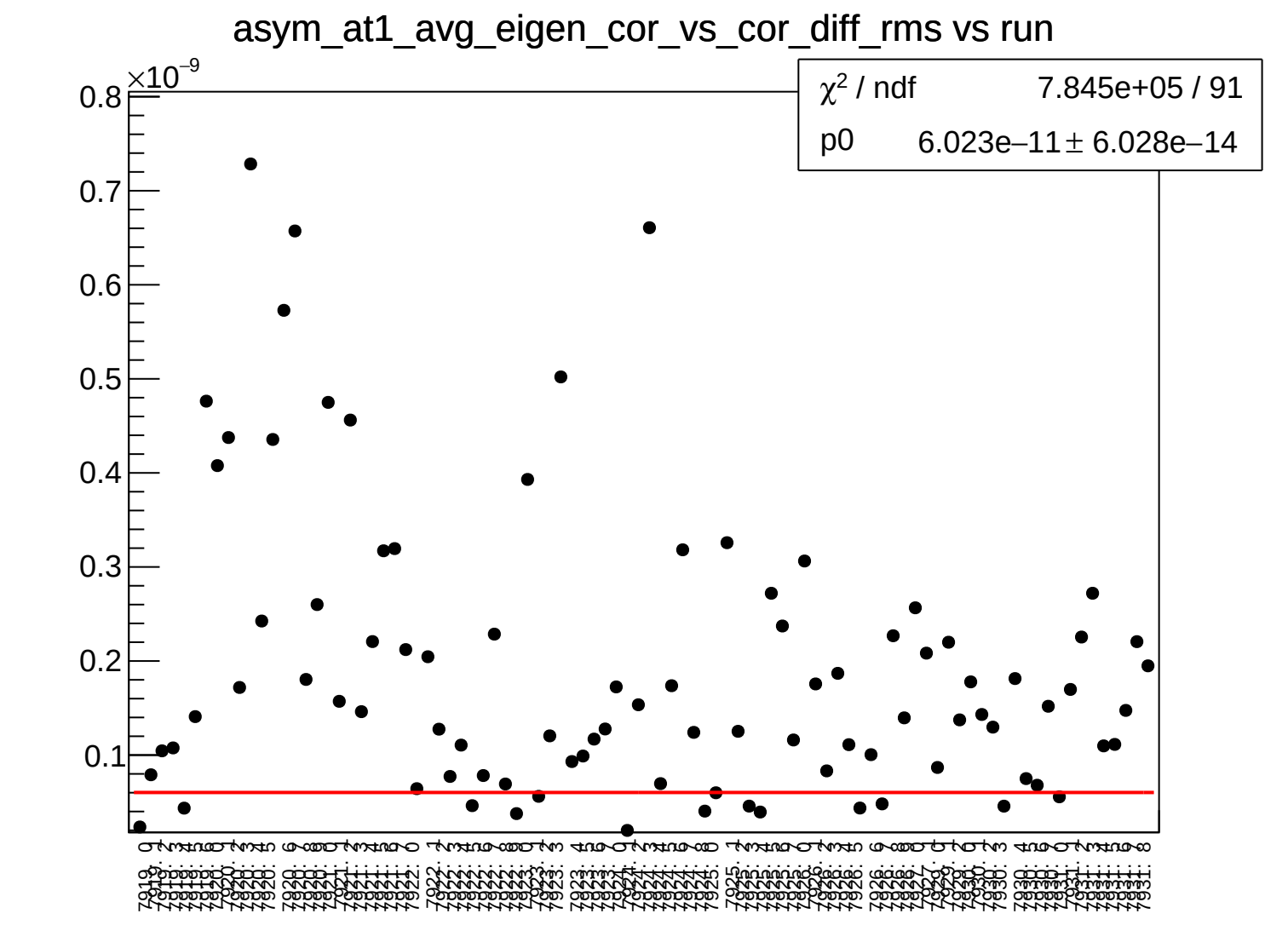

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.16 / 91
p0 −0.1473 ± 0.1281
pull
Entries 92
Mean 43.05
Std Dev 93.22

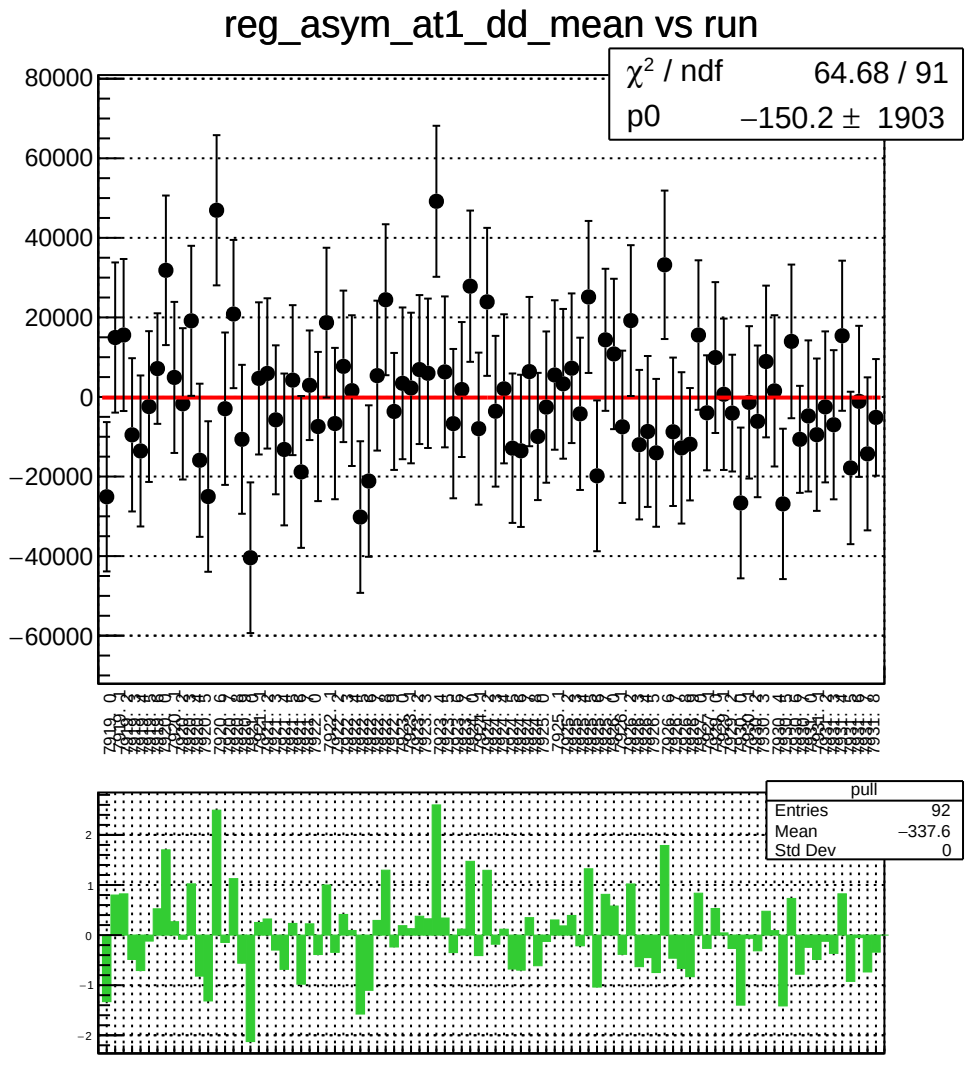

pull1D
Entries 92
Mean 0.01475
Std Dev 0.9449

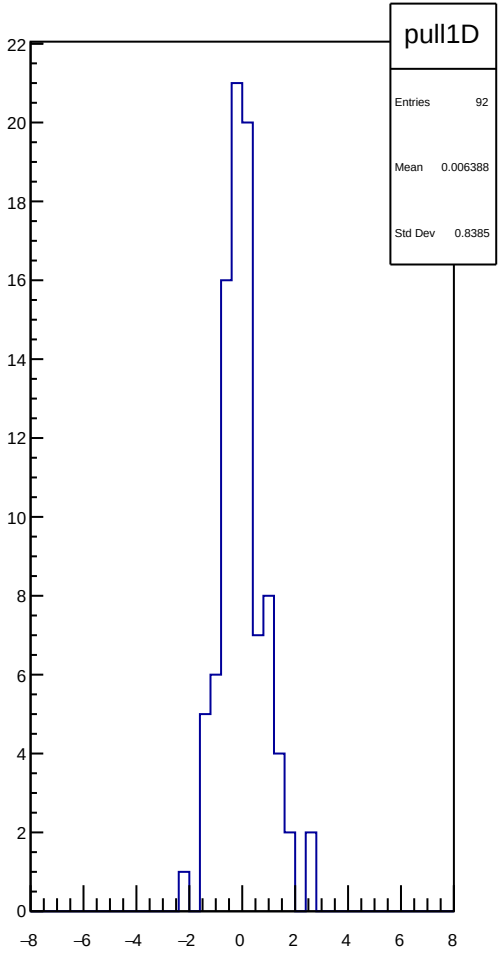

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.856e+04 / 91
p0 118.2 ± 0.09055
200
180
160
140
120
100
80

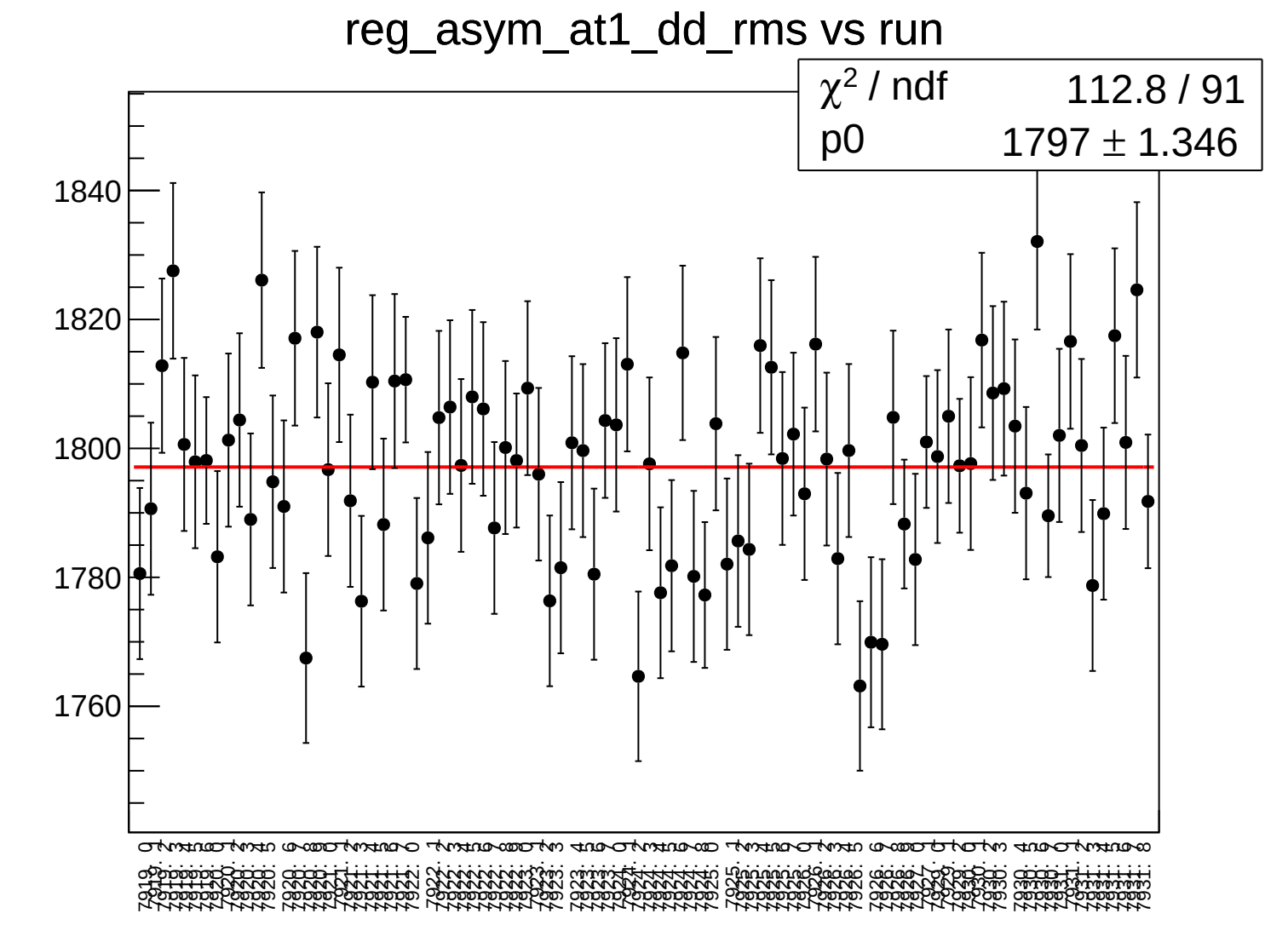

asym_at1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.23 / 91
p0 −2.299e−14 ± 8.524e−14
pull
Entries 92
Mean −17.28
Std Dev 0

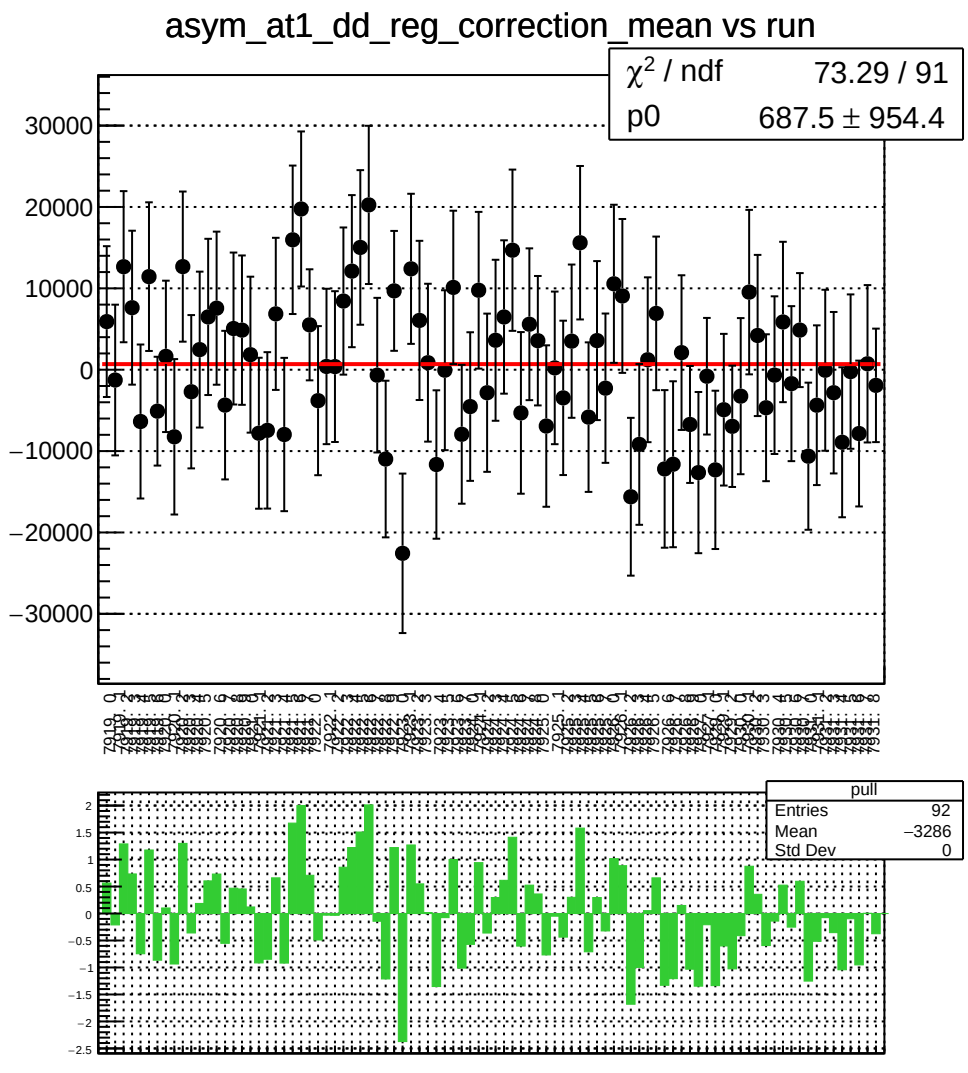

pull1D
Entries 92
Mean 0.06806
Std Dev 0.9825

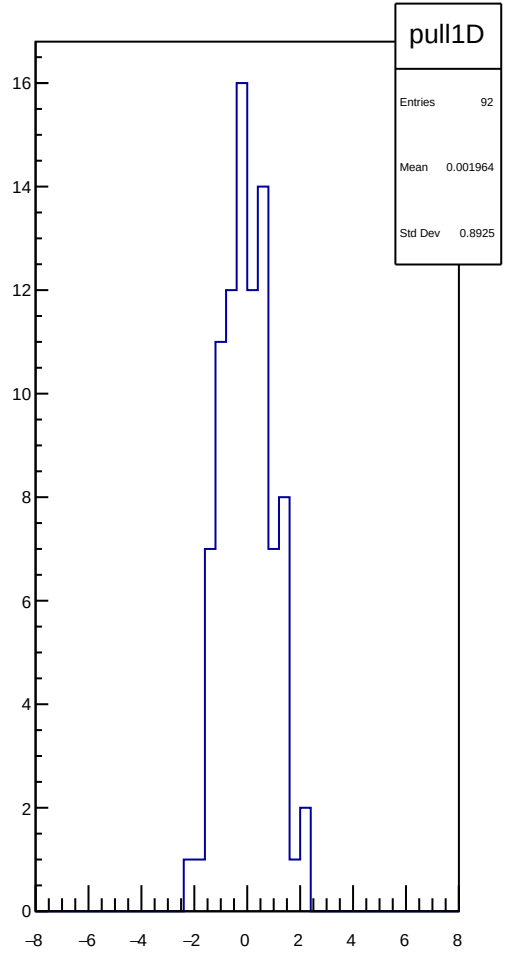

asym_at1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
χ² / ndf 7.845e+05 / 91
p0 6.023e−11 ± 6.028e−14

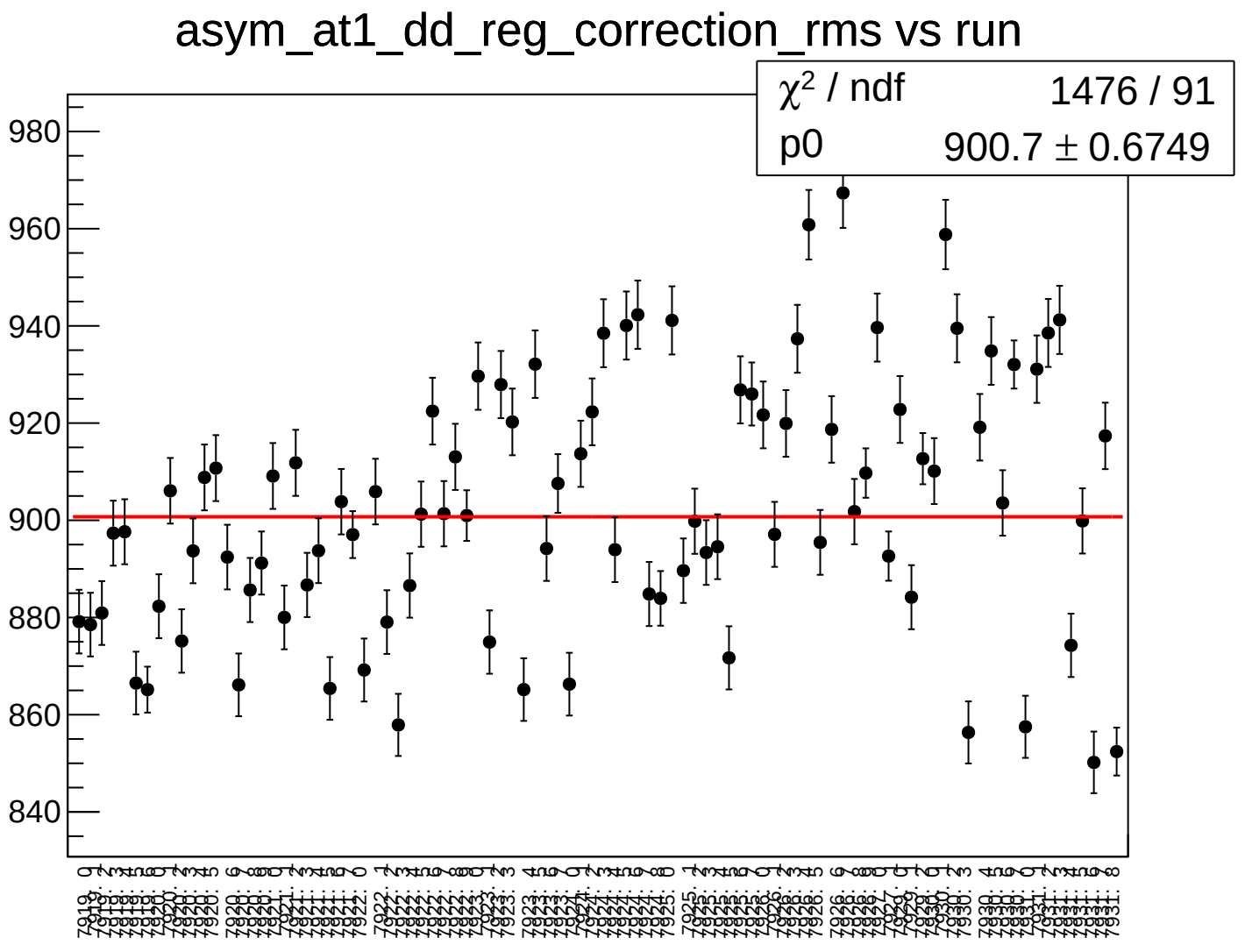

reg_asym_at1_dd_mean vs run
χ² / ndf 64.68 / 91
p0 −150.2 ± 1903
pull
Entries 92
Mean −337.6
Std Dev 0

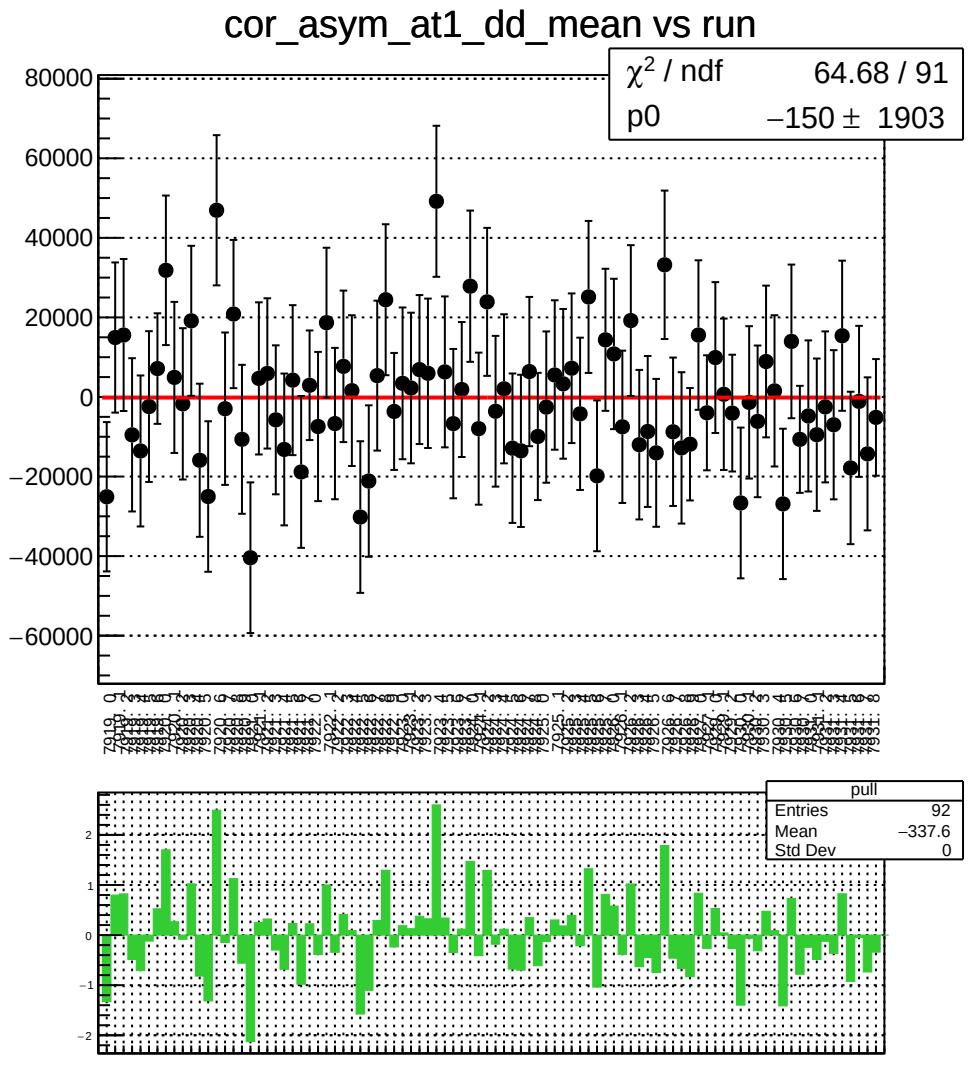

pull1D
Entries 92
Mean 0.006388
Std Dev 0.8385

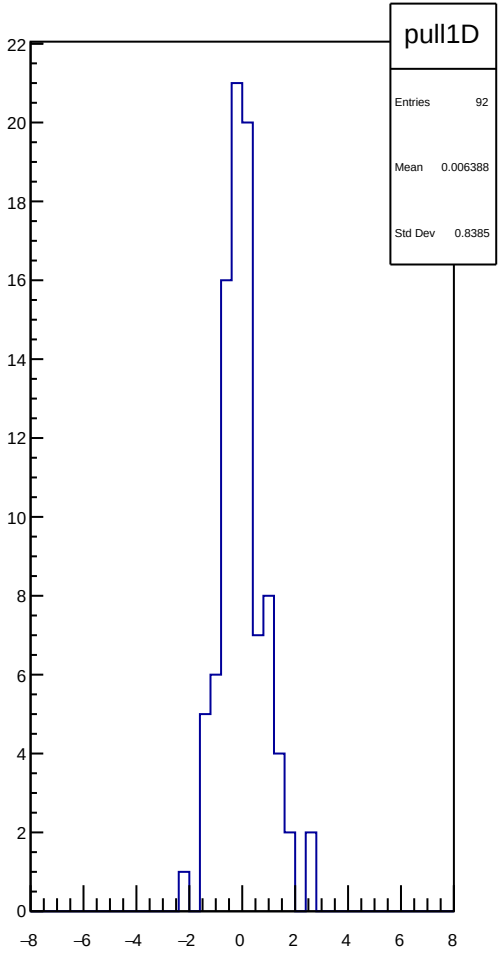

reg_asym_at1_dd_rms vs run
χ^2 / ndf 112.8 / 91
p0 1797 ± 1.346
1840
1820
1800
1780
1760

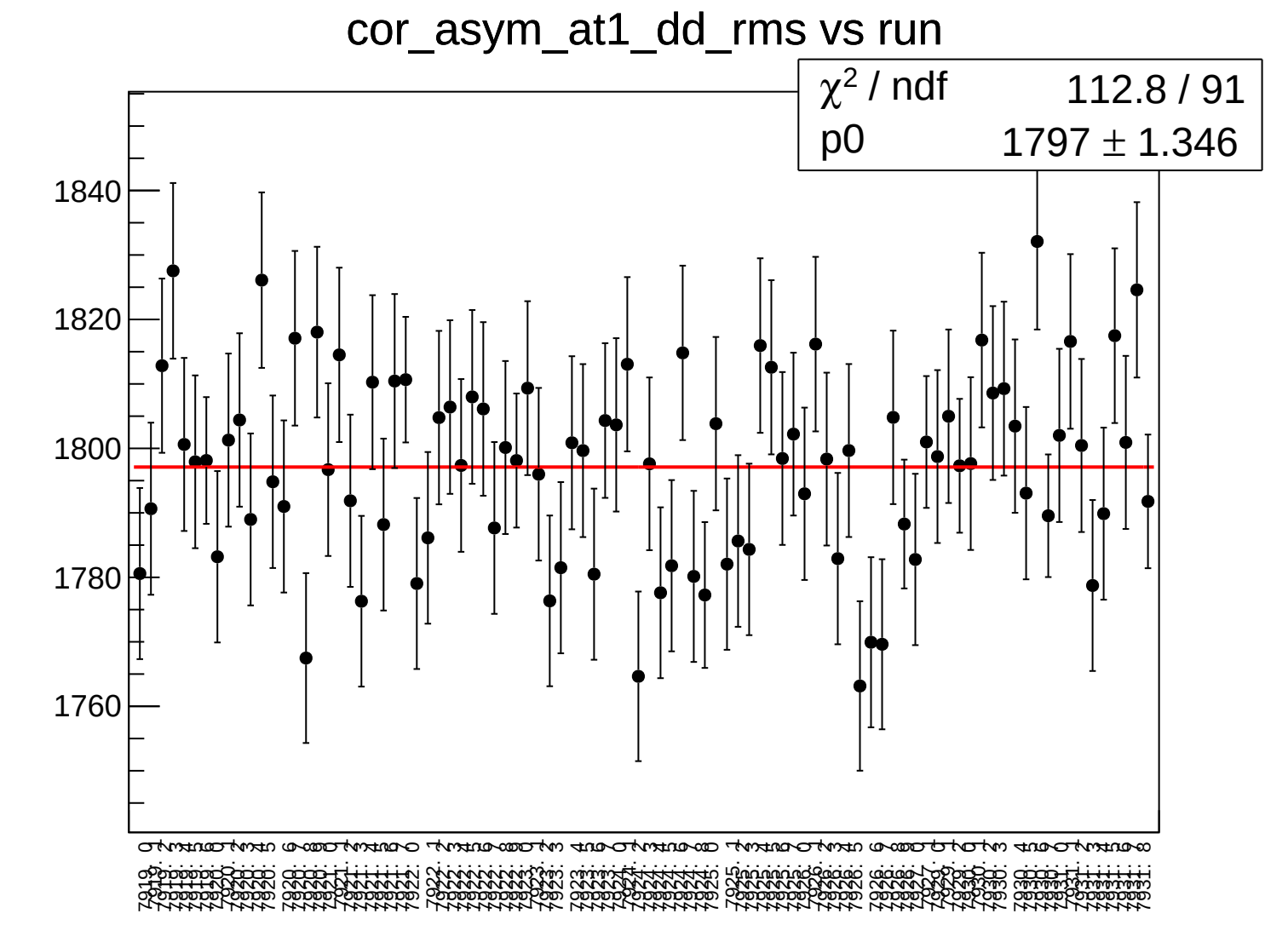

asym_at1_dd_reg_correction_mean vs run
χ² / ndf 73.29 / 91
p0 687.5 ± 954.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −3286
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

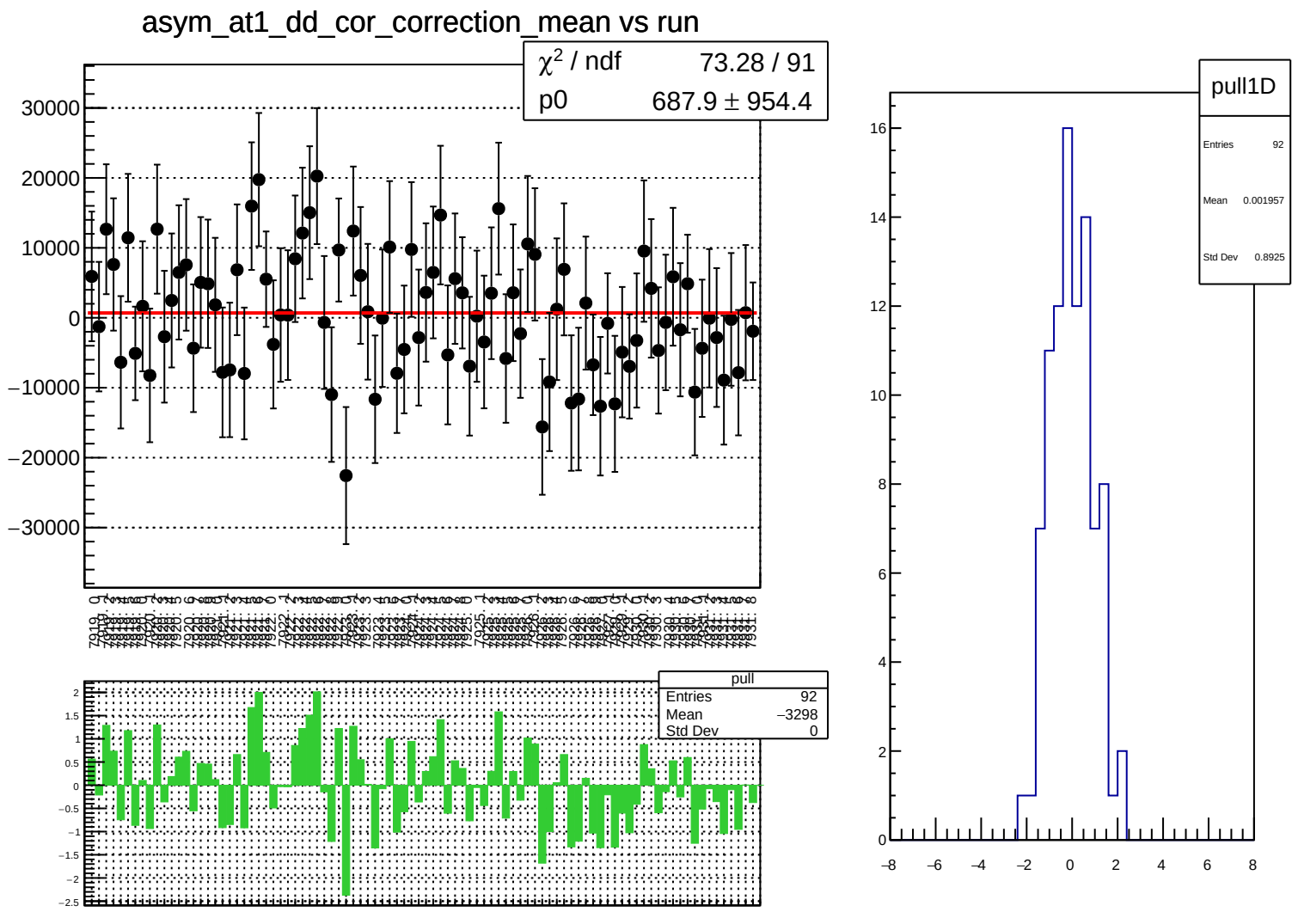

pull1D
Entries 92
Mean 0.001964
Std Dev 0.8925
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

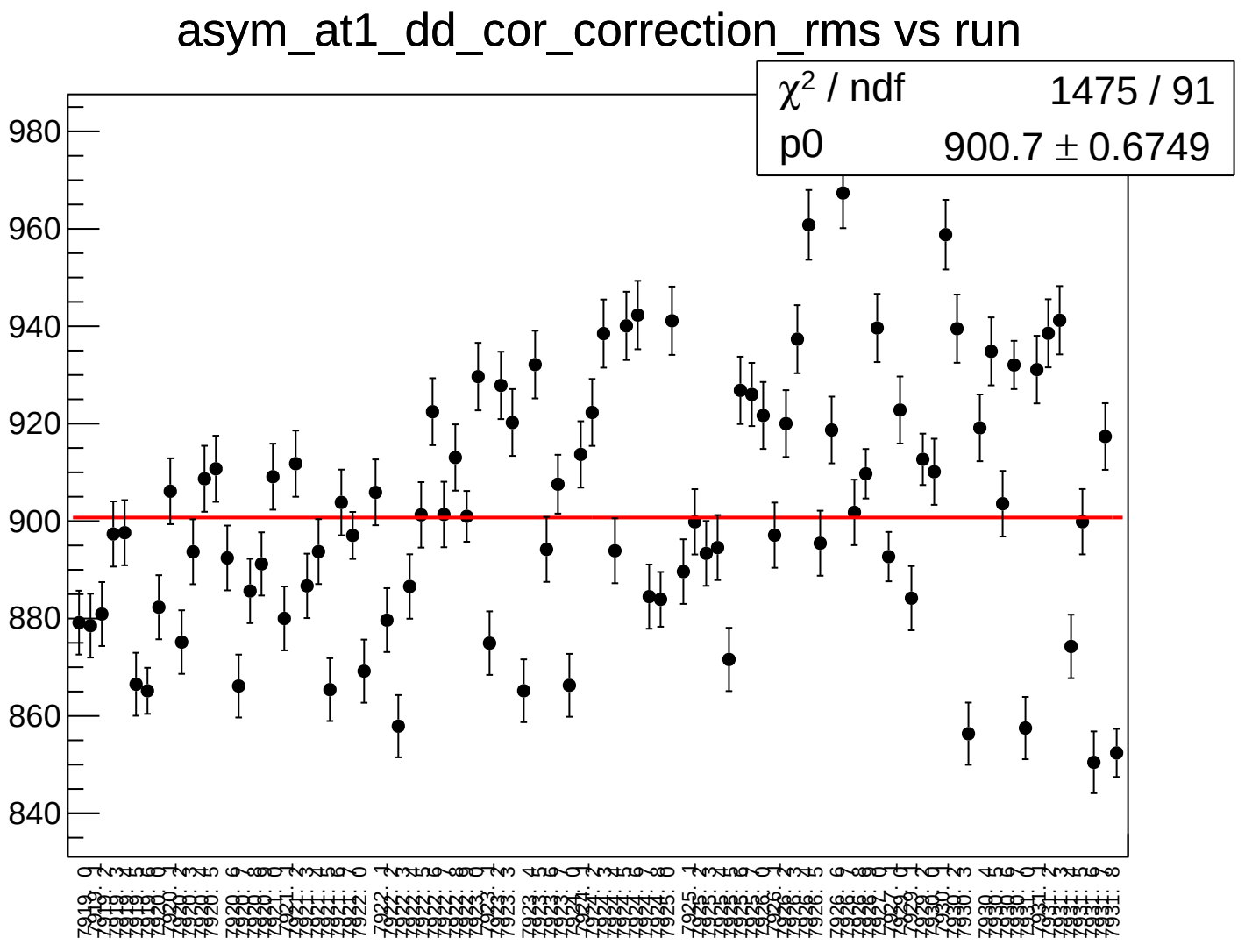

asym_at1_dd_reg_correction_rms vs run
χ² / ndf 1476 / 91
p0 900.7 ± 0.6749
980
960
940
920
900
880
860
840

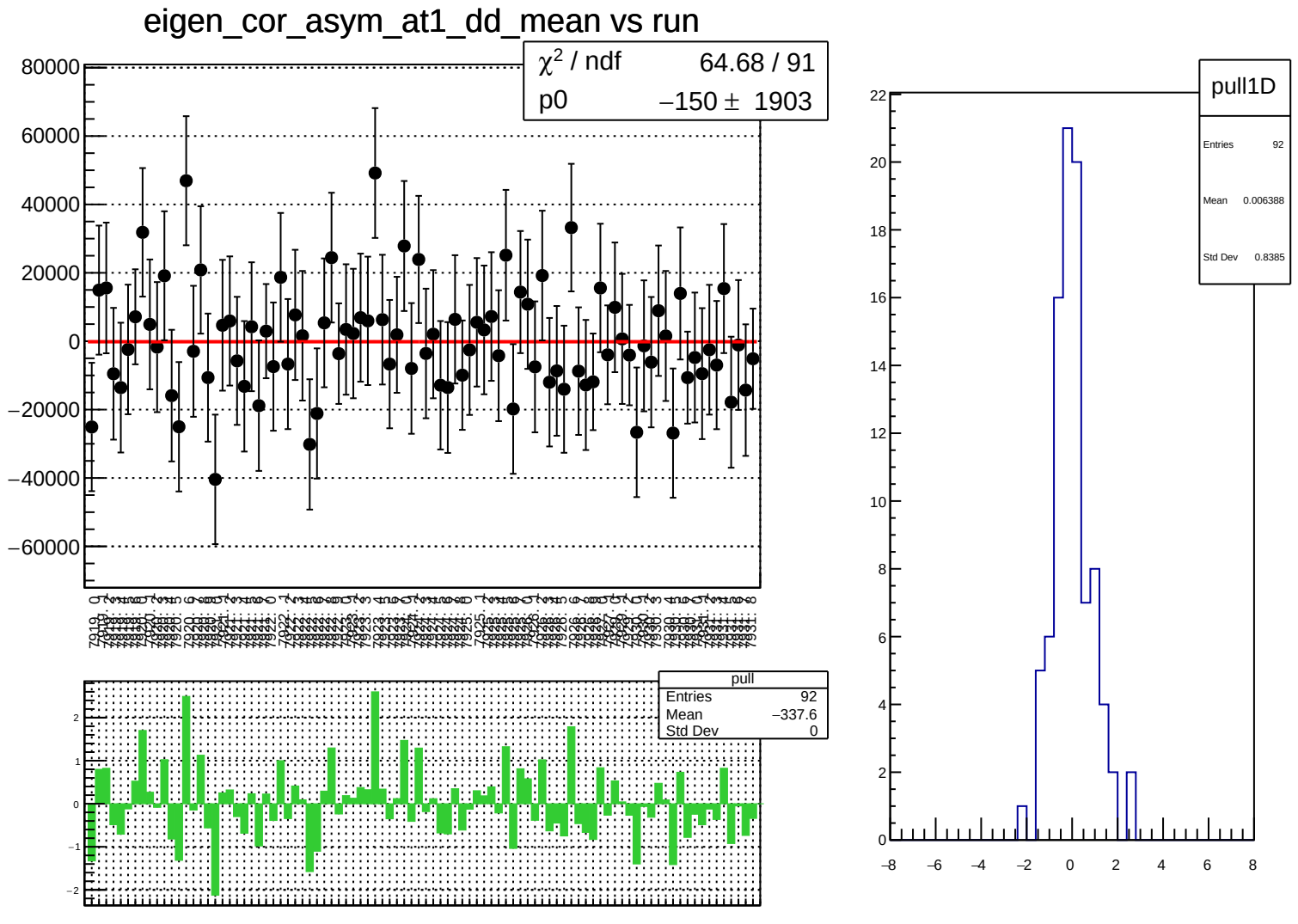

cor_asym_at1_dd_mean vs run
χ² / ndf 64.68 / 91
p0 −150 ± 1903
pull
Entries 92
Mean −337.6
Std Dev 0

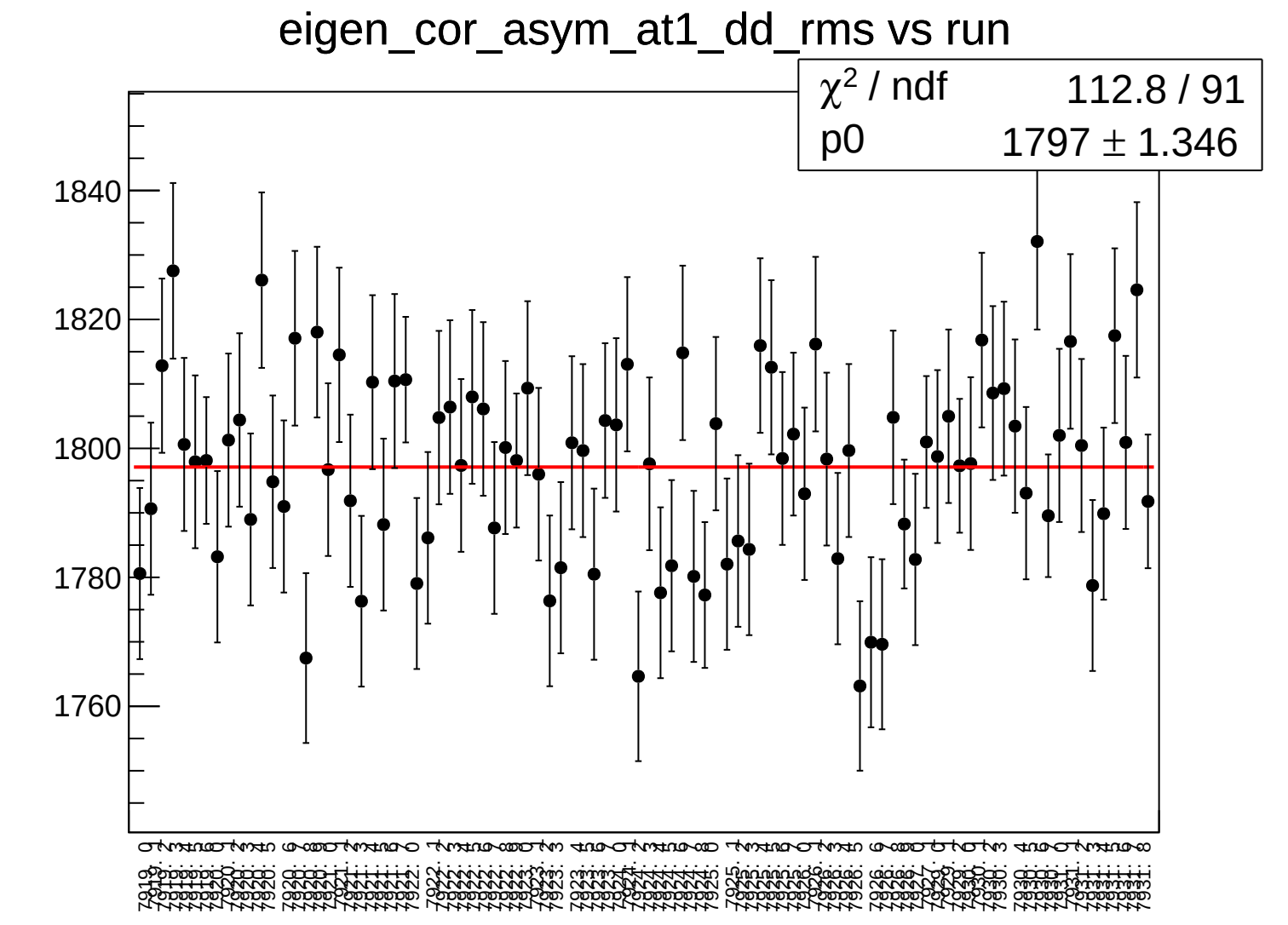

pull1D
Entries 92
Mean 0.006388
Std Dev 0.8385

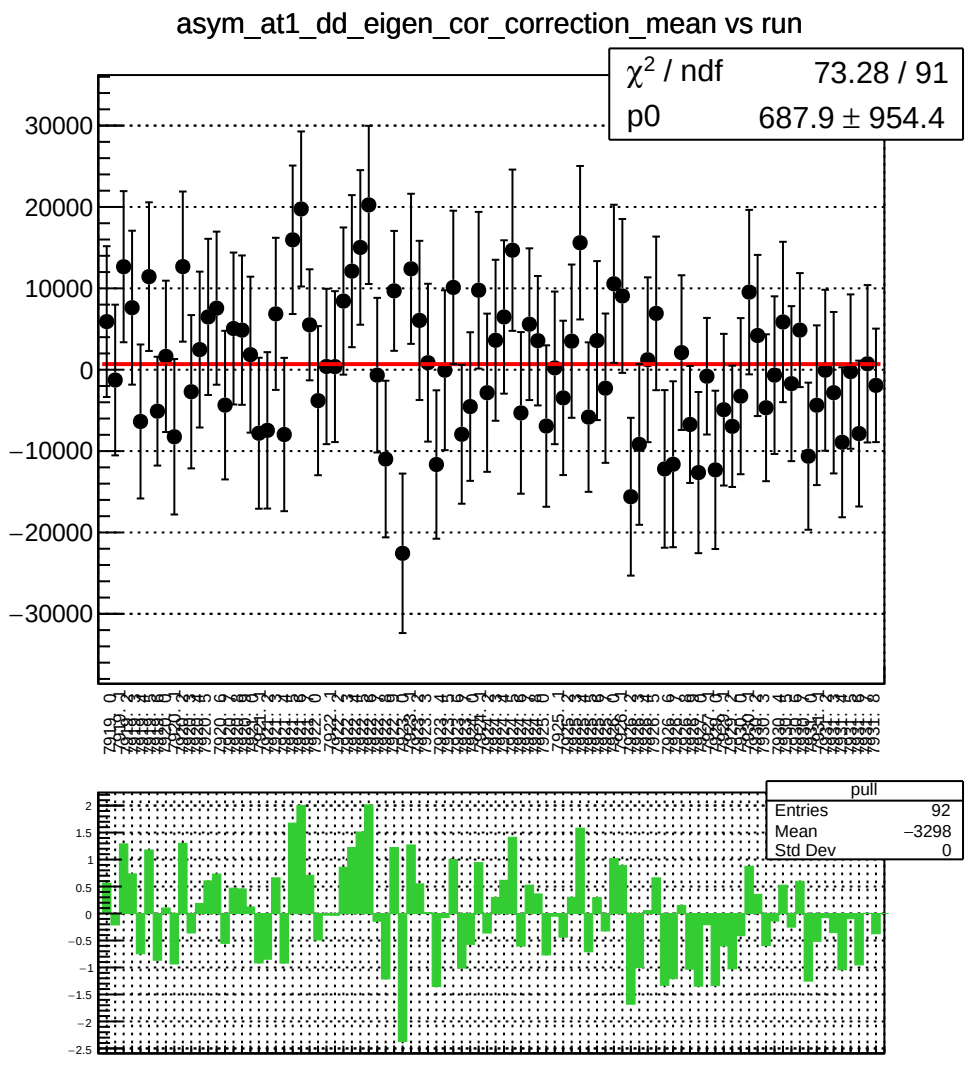

cor_asym_at1_dd_rms vs run
χ^2 / ndf 112.8 / 91
p0 1797 ± 1.346
1840
1820
1800
1780
1760

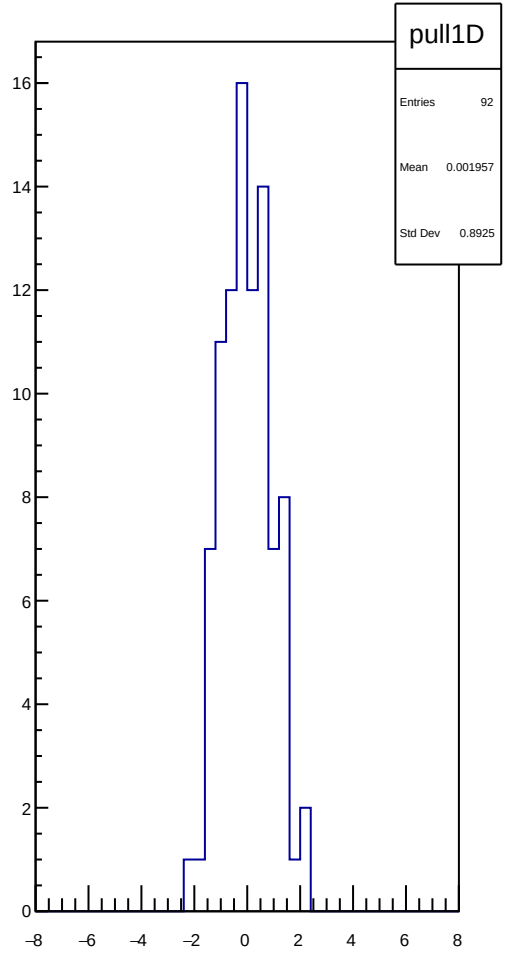

asym_at1_dd_cor_correction_mean vs run
χ² / ndf 73.28 / 91
p0 687.9 ± 954.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −3298
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 92
Mean 0.001957
Std Dev 0.8925
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

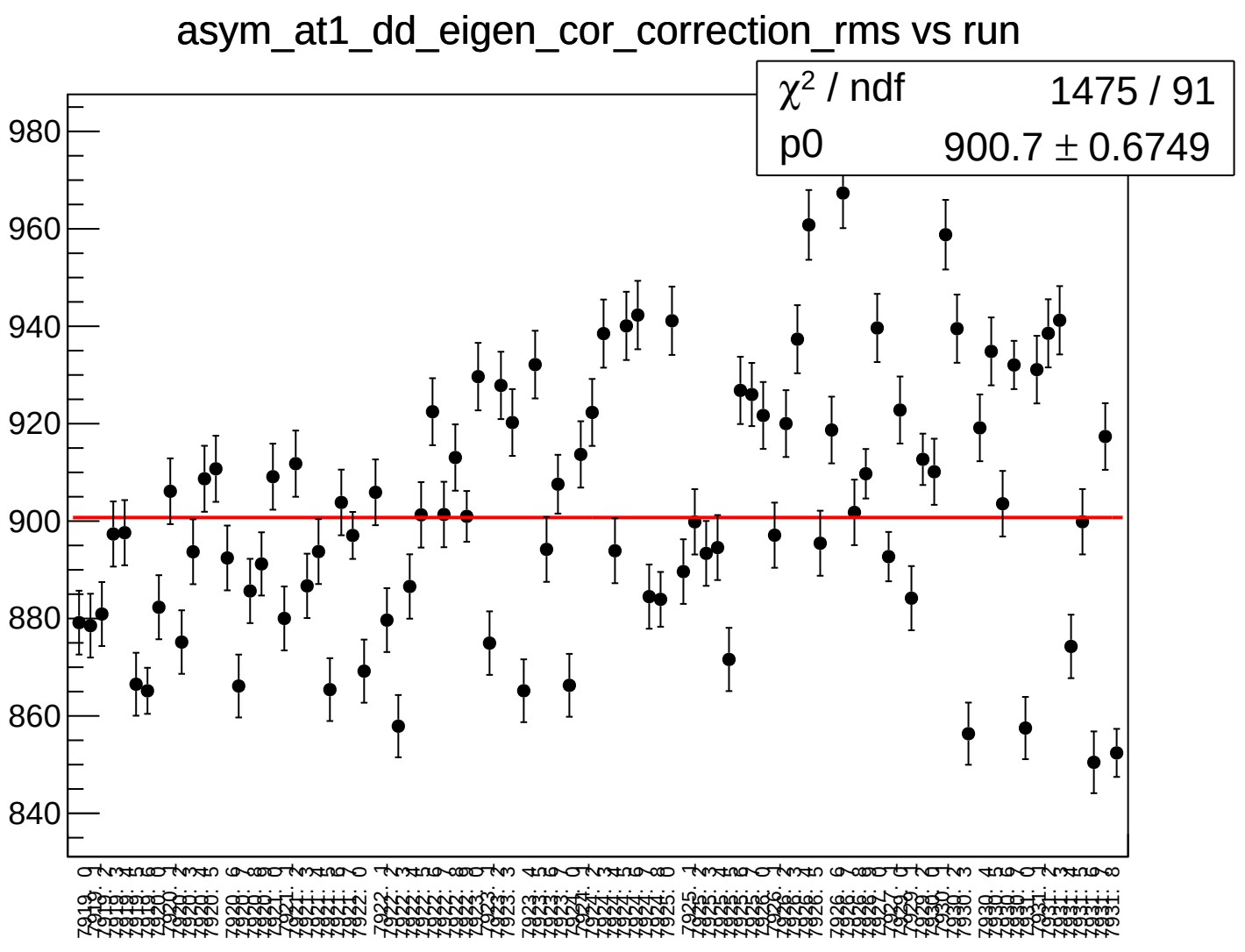

asym_at1_dd_cor_correction_rms vs run
χ^2 / ndf 1475 / 91
p0 900.7 ± 0.6749
980
960
940
920
900
880
860
840

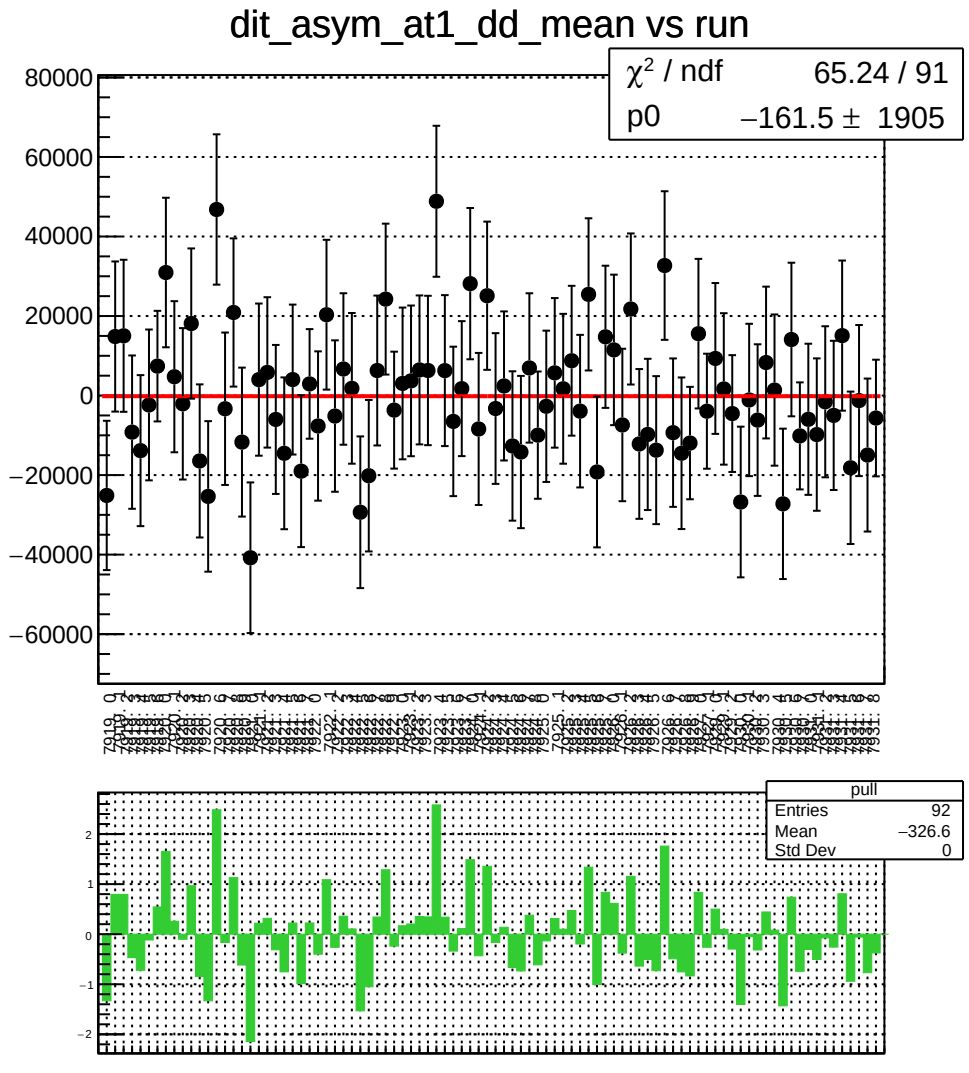

eigen_cor_asym_at1_dd_mean vs run
χ² / ndf 64.68 / 91
p0 −150 ± 1903
pull
Entries 92
Mean −337.6
Std Dev 0
pull1D
Entries 92
Mean 0.006388
Std Dev 0.8385

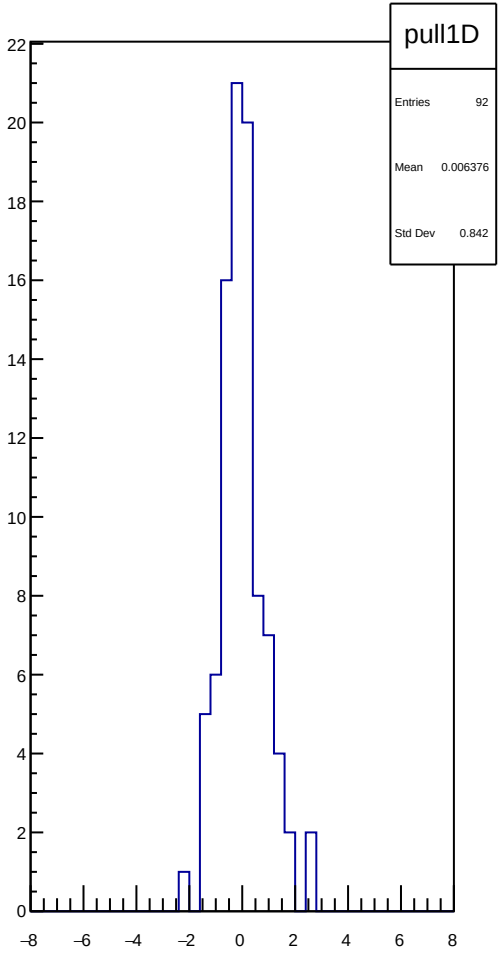

eigen_cor_asym_at1_dd_rms vs run
χ^2 / ndf 112.8 / 91
p0 1797 ± 1.346
1840
1820
1800
1780
1760

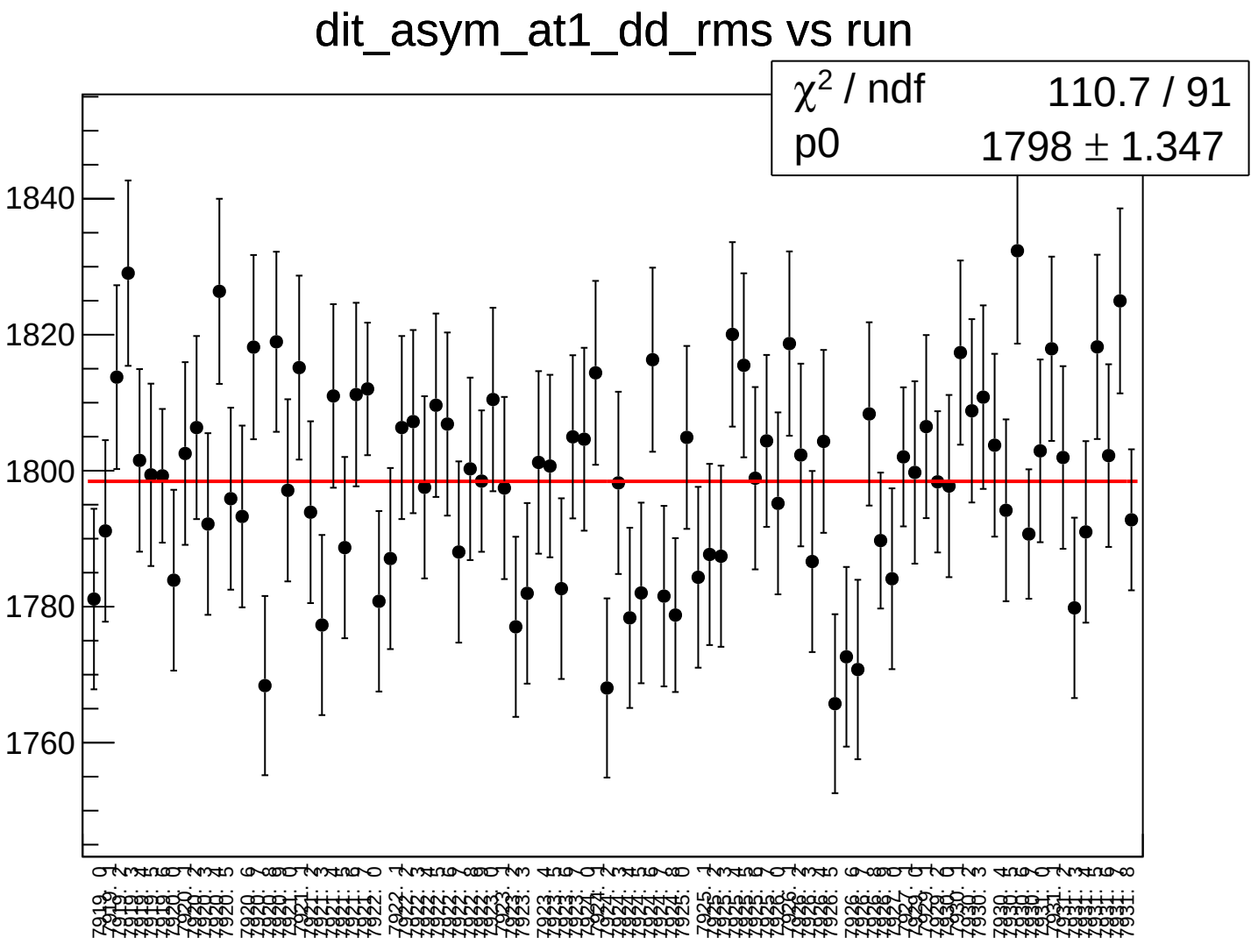

asym_at1_dd_eigen_cor_correction_mean vs run
χ² / ndf 73.28 / 91
p0 687.9 ± 954.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −3298
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

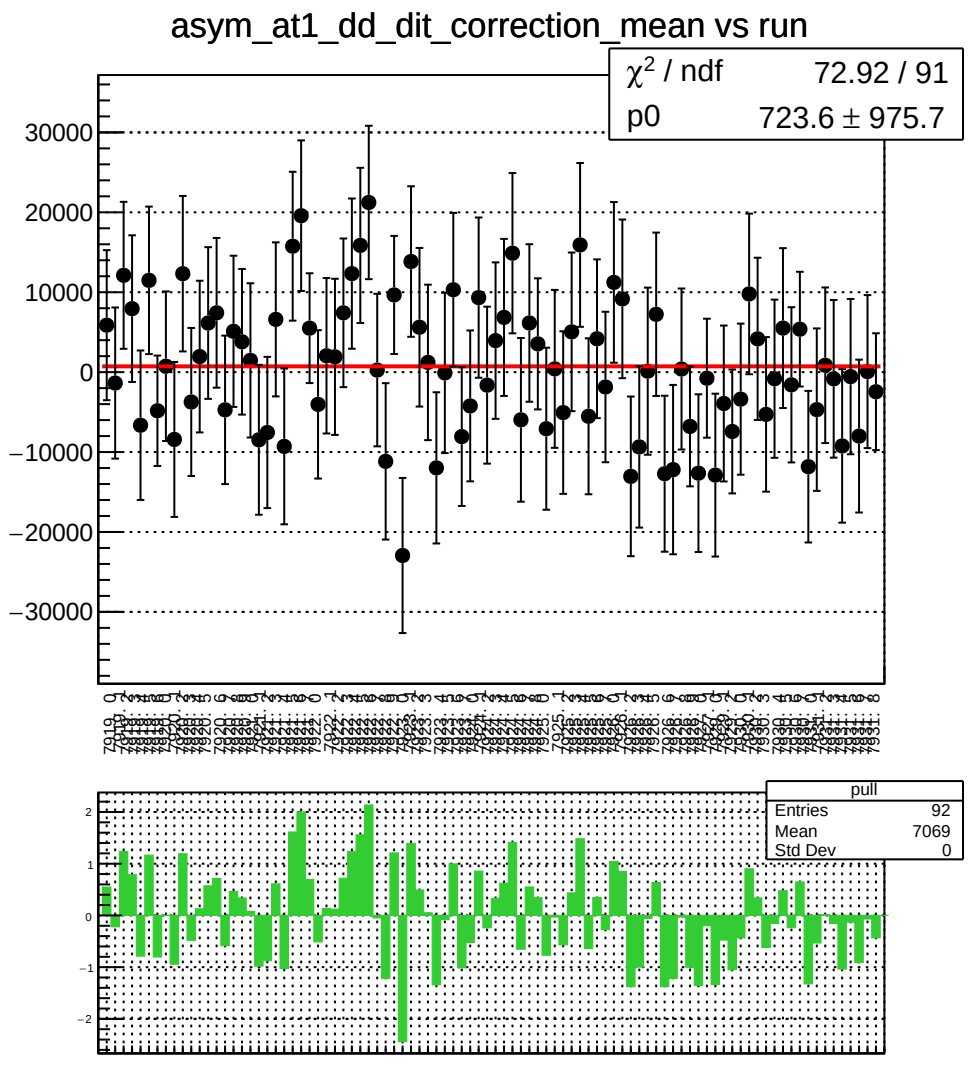

pull1D
Entries 92
Mean 0.001957
Std Dev 0.8925
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

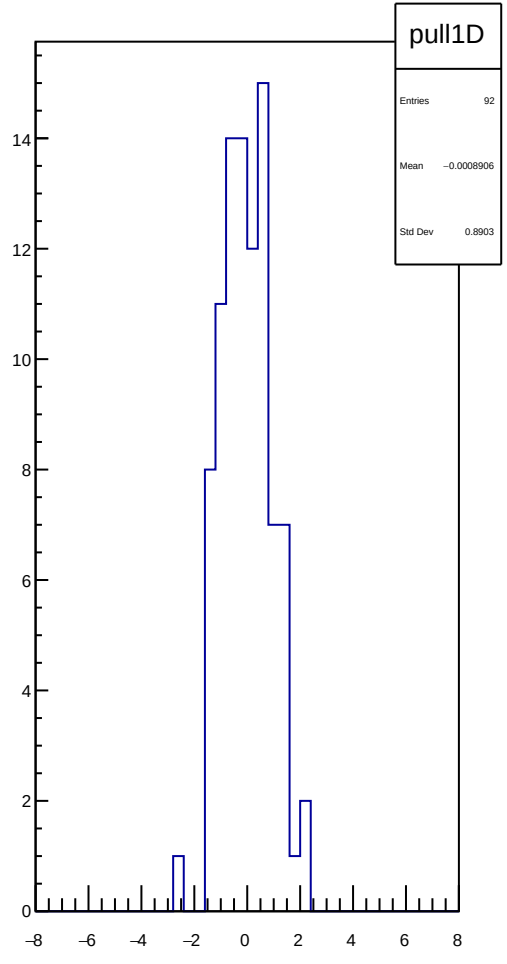

asym_at1_dd_eigen_cor_correction_rms vs run
χ² / ndf 1475 / 91
p0 900.7 ± 0.6749
980
960
940
920
900
880
860
840

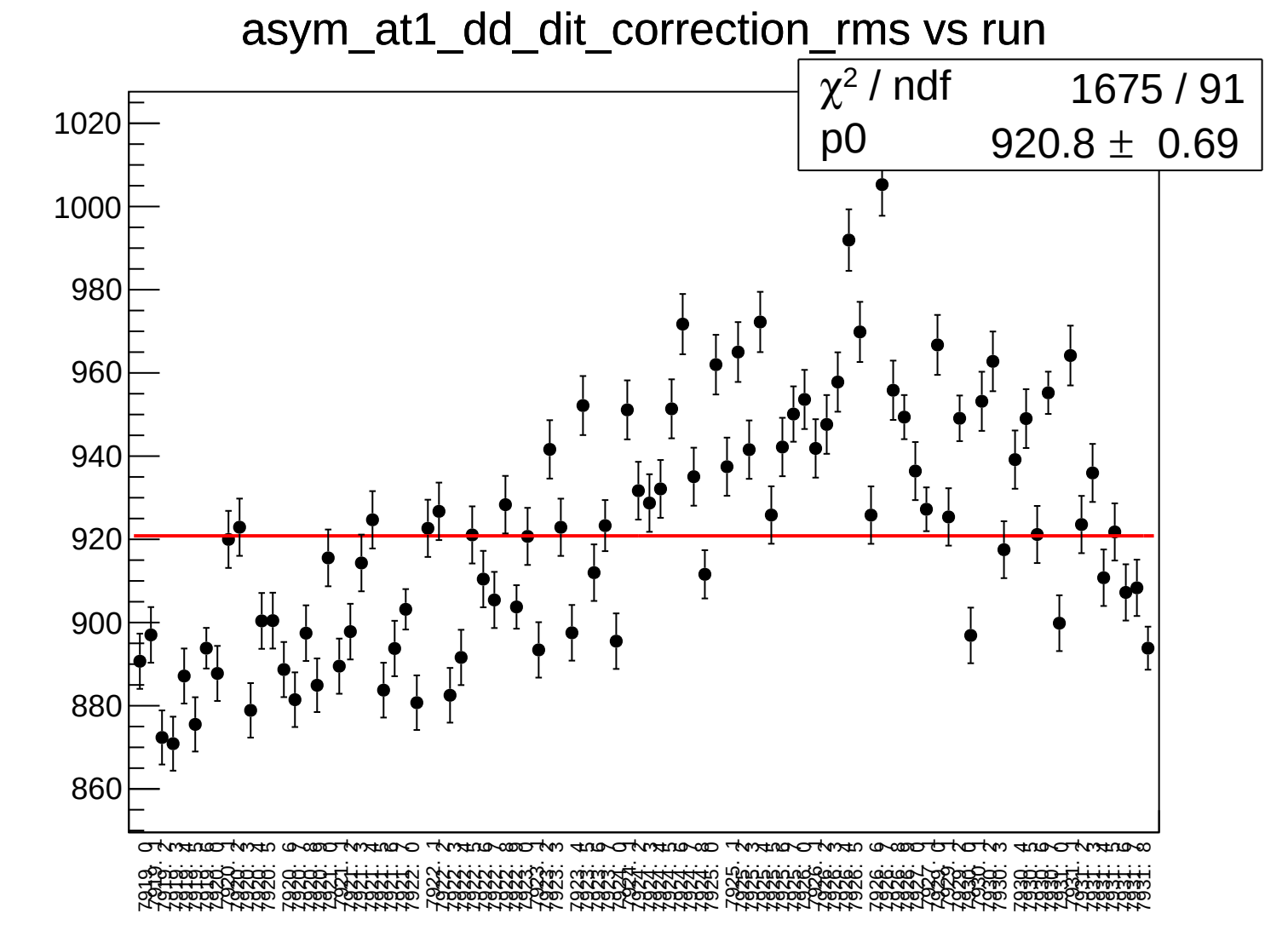

dit_asym_at1_dd_mean vs run
χ² / ndf 65.24 / 91
p0 −161.5 ± 1905
pull
Entries 92
Mean −326.6
Std Dev 0

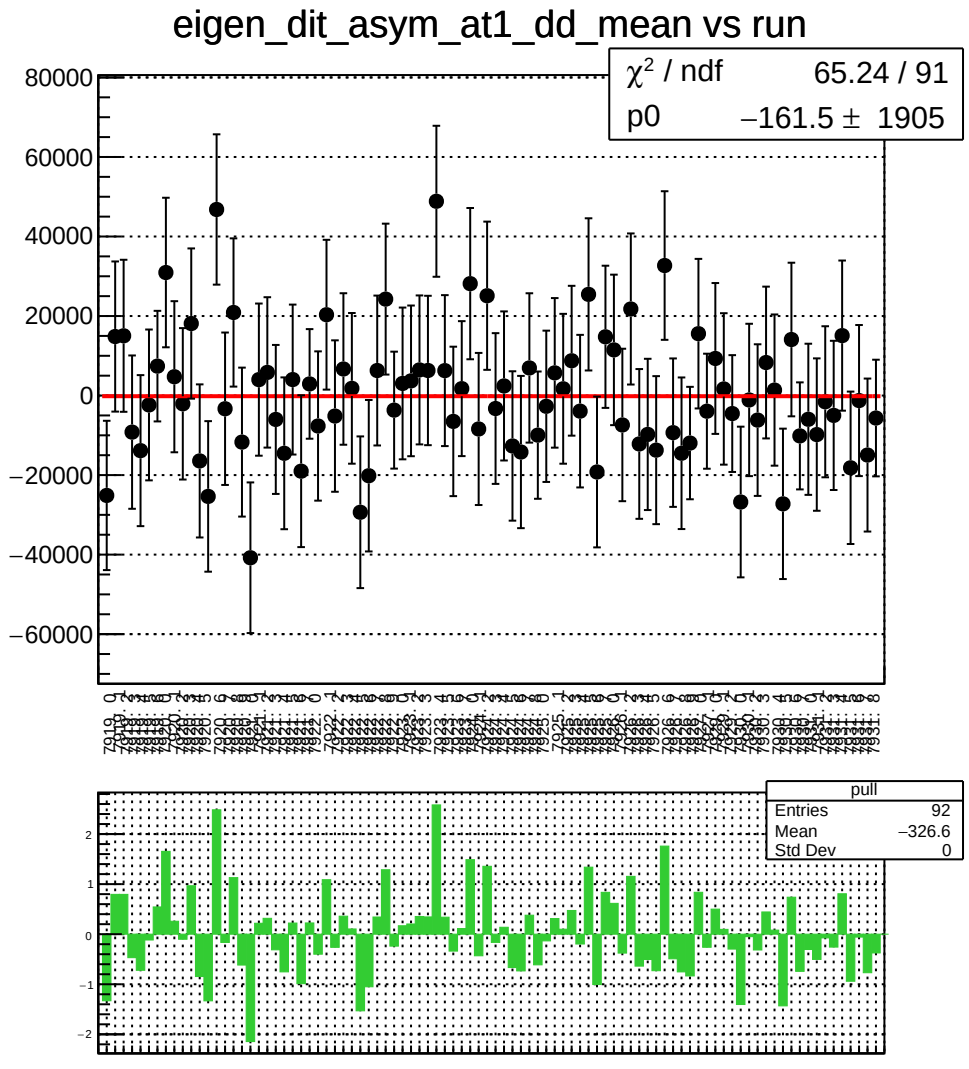

pull1D
Entries 92
Mean 0.006376
Std Dev 0.842

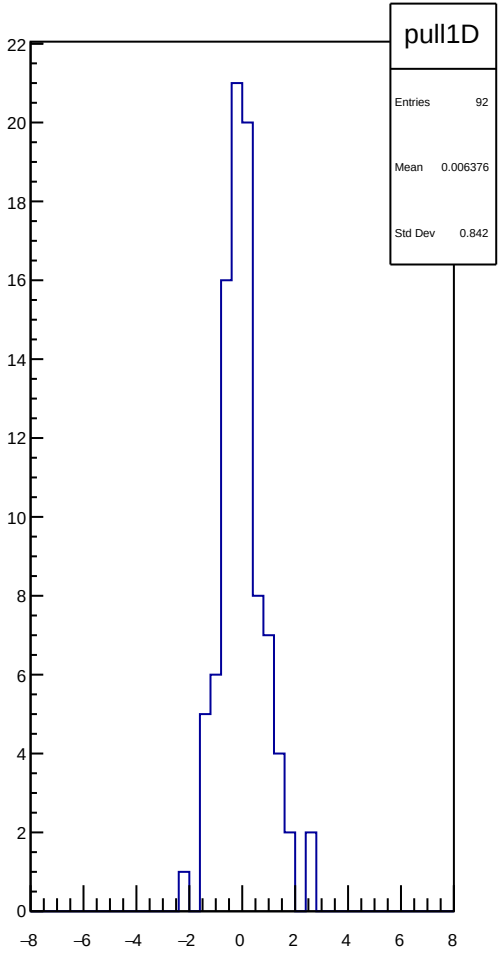

dit_asym_at1_dd_rms vs run
χ^2 / ndf 110.7 / 91
p0 1798 ± 1.347
1840
1820
1800
1780
1760

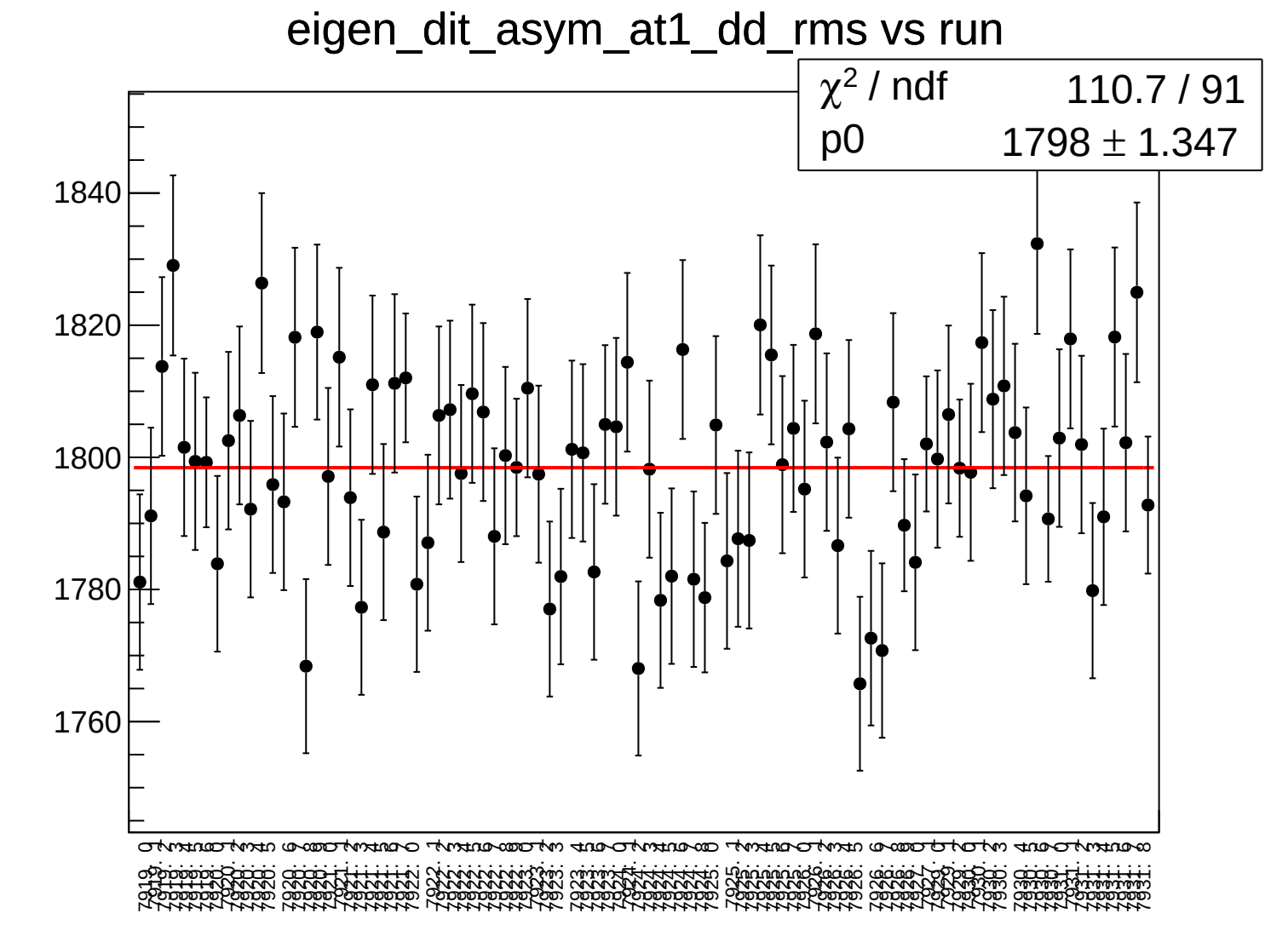

asym_at1_dd_dit_correction_mean vs run
χ² / ndf 72.92 / 91
p0 723.6 ± 975.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean 7069
Std Dev 0
2
1
0
−1
−2

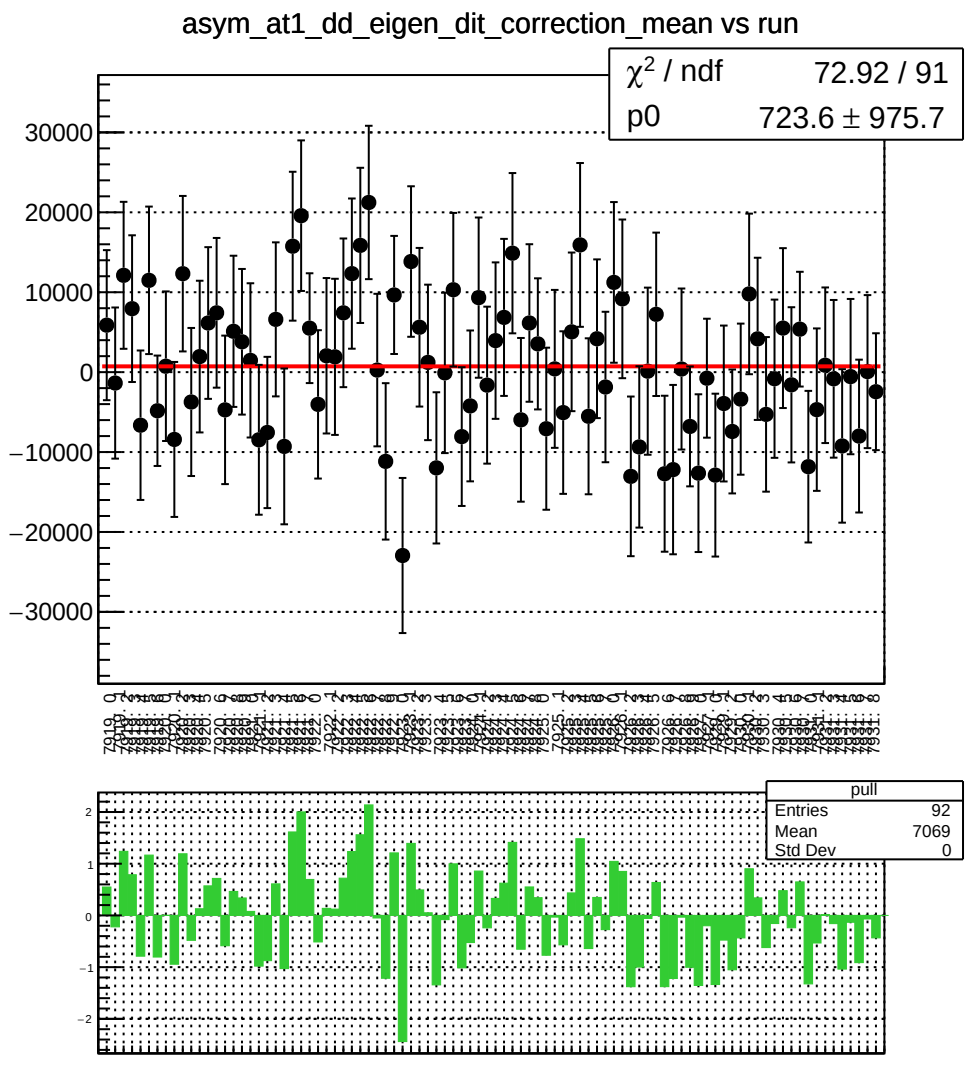

pull1D
Entries 92
Mean −0.0008906
Std Dev 0.8903
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

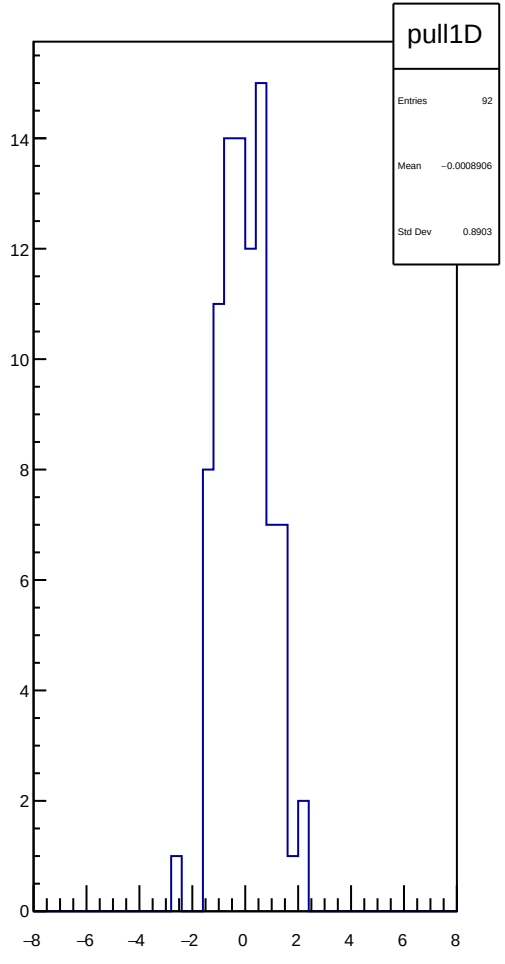

asym_at1_dd_dit_correction_rms vs run
χ² / ndf 1675 / 91
p0 920.8 ± 0.69
1020
1000
980
960
940
920
900
880
860

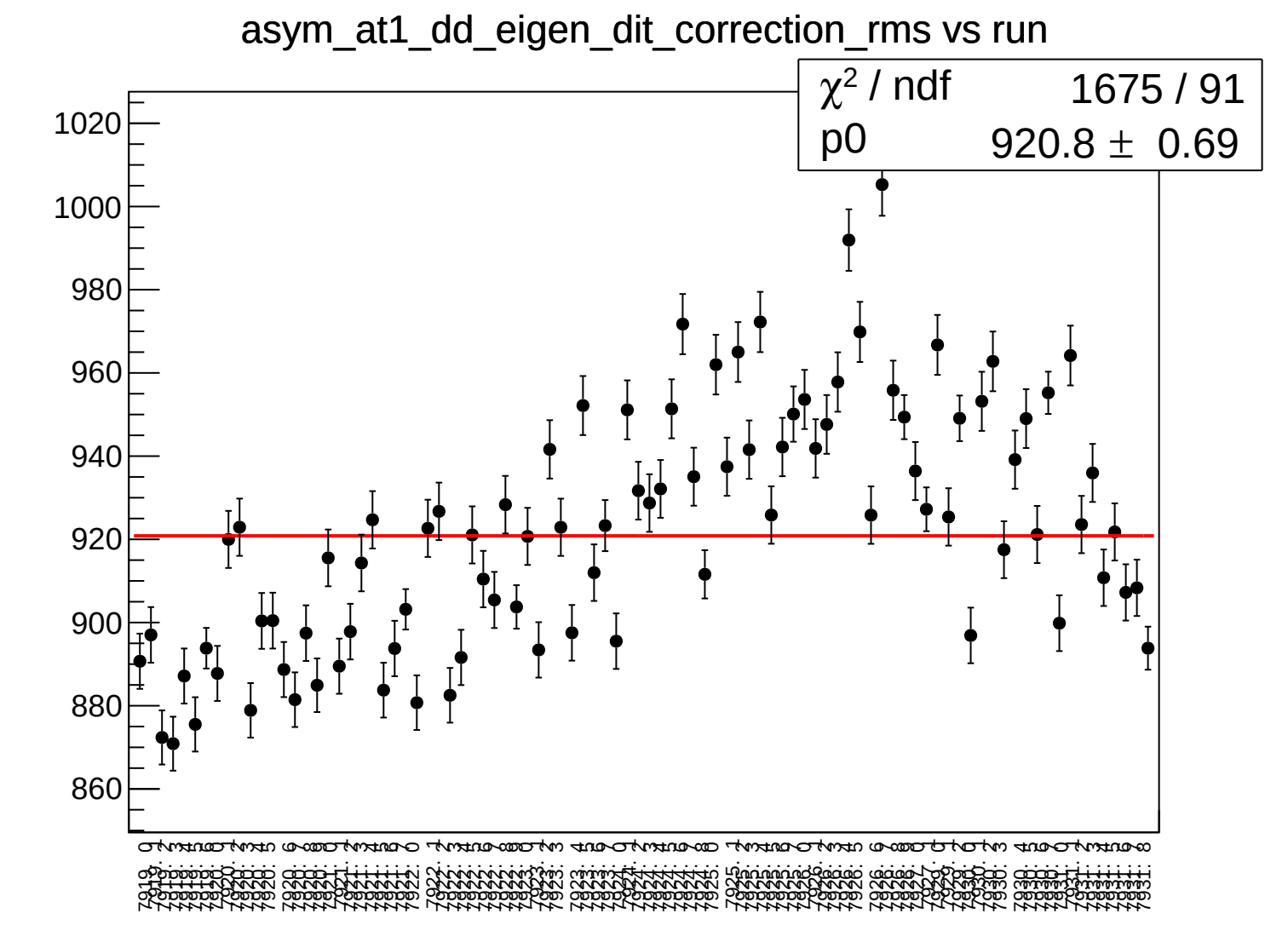

eigen_dit_asym_at1_dd_mean vs run
χ² / ndf 65.24 / 91
p0 −161.5 ± 1905
pull
Entries 92
Mean −326.6
Std Dev 0

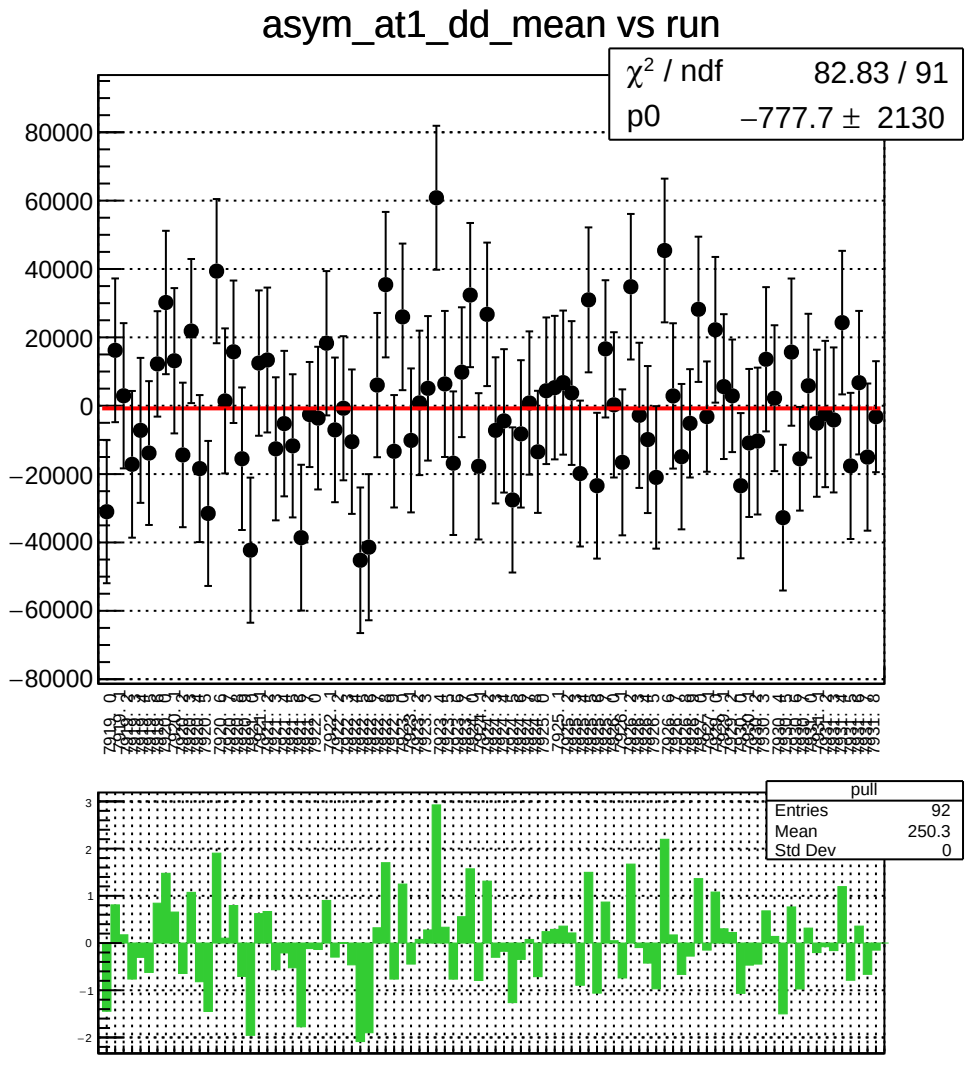

pull1D
Entries 92
Mean 0.006376
Std Dev 0.842

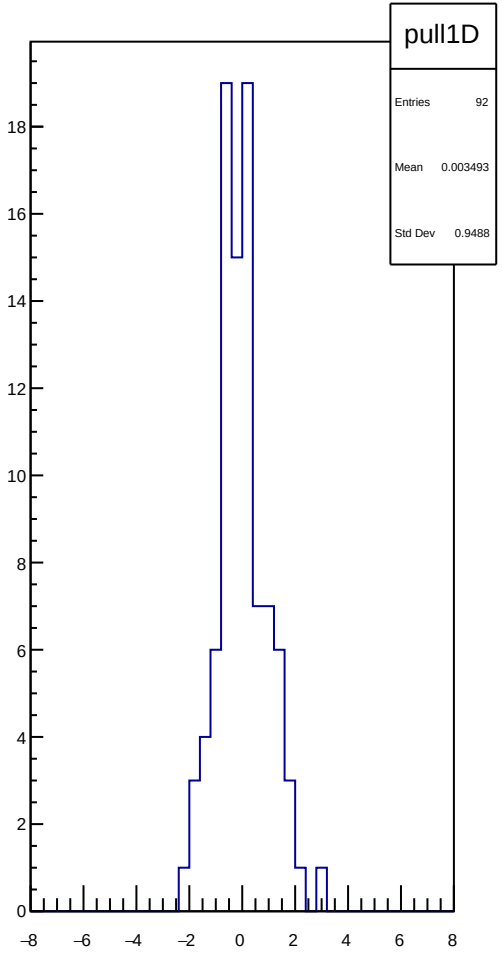

eigen_dit_asym_at1_dd_rms vs run
χ^2 / ndf 110.7 / 91
p0 1798 ± 1.347
1840
1820
1800
1780
1760

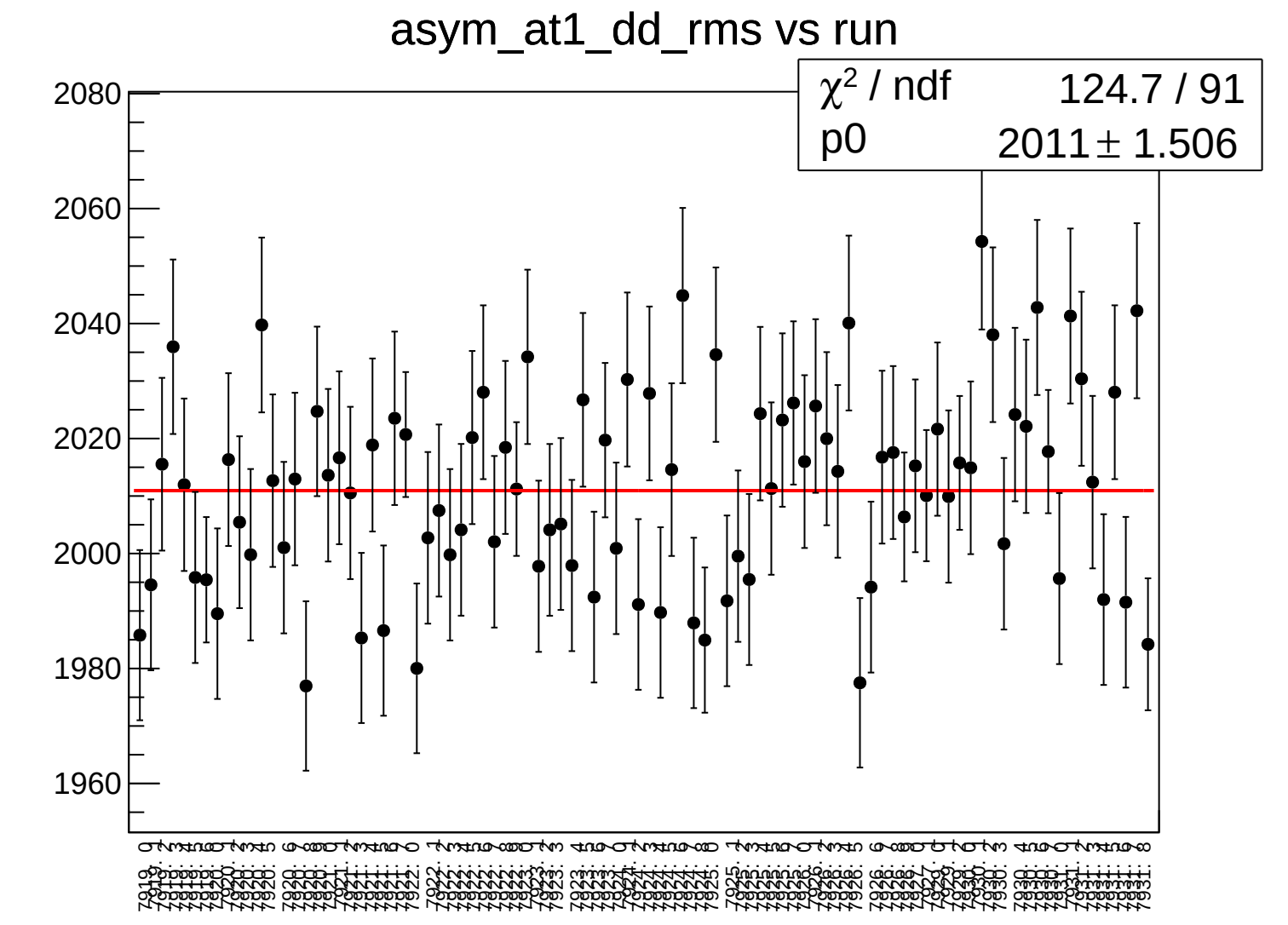

asym_at1_dd_eigen_dit_correction_mean vs run
χ² / ndf 72.92 / 91
p0 723.6 ± 975.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean 7069
Std Dev 0
2
1
0
−1
−2

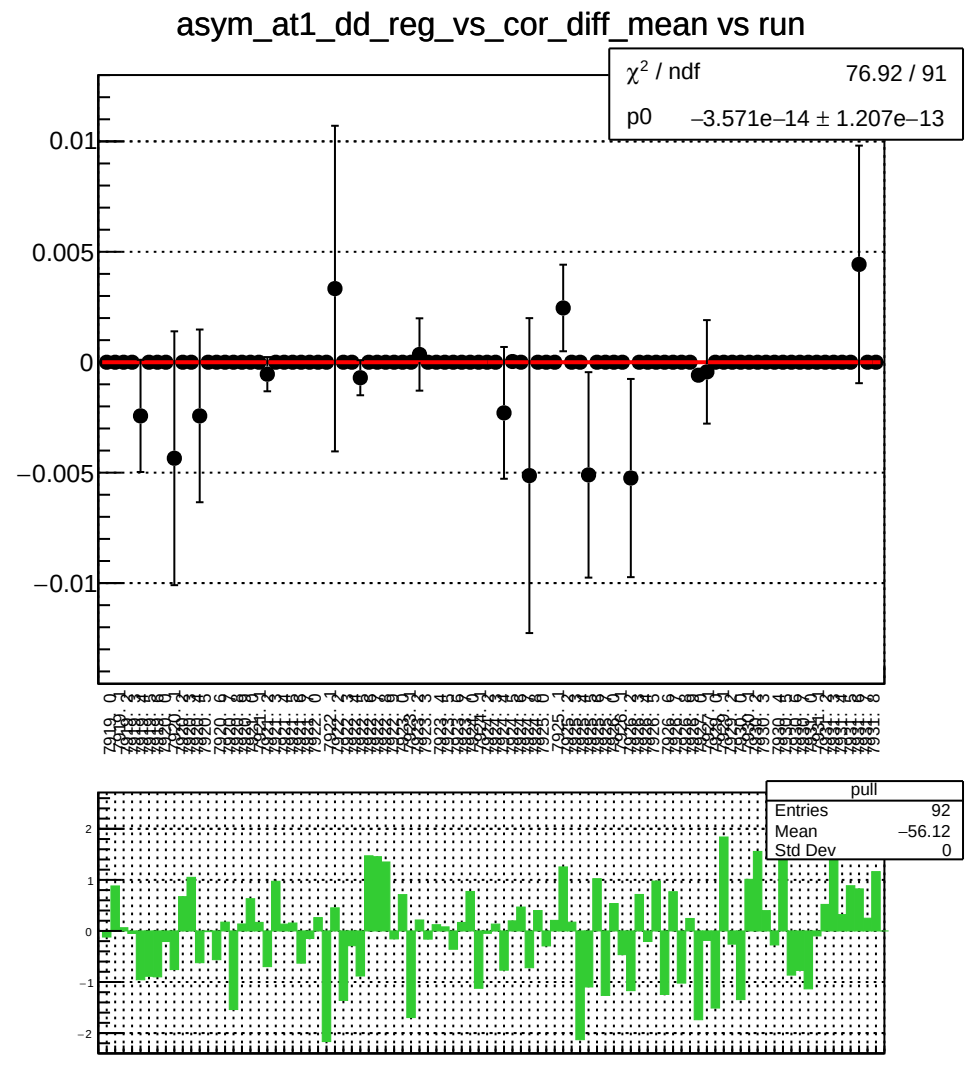

pull1D
Entries 92
Mean −0.0008906
Std Dev 0.8903
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

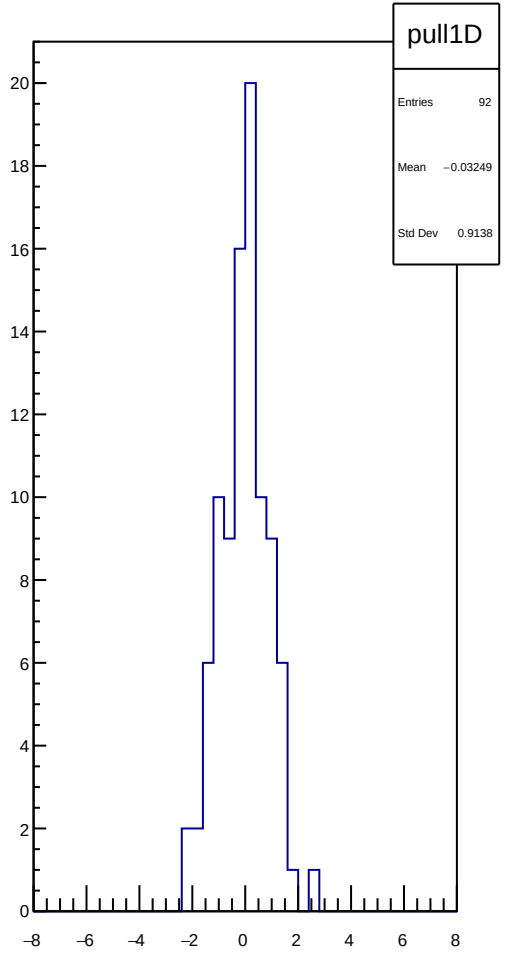

asym_at1_dd_eigen_dit_correction_rms vs run
χ² / ndf 1675 / 91
p0 920.8 ± 0.69
1020
1000
980
960
940
920
900
880
860

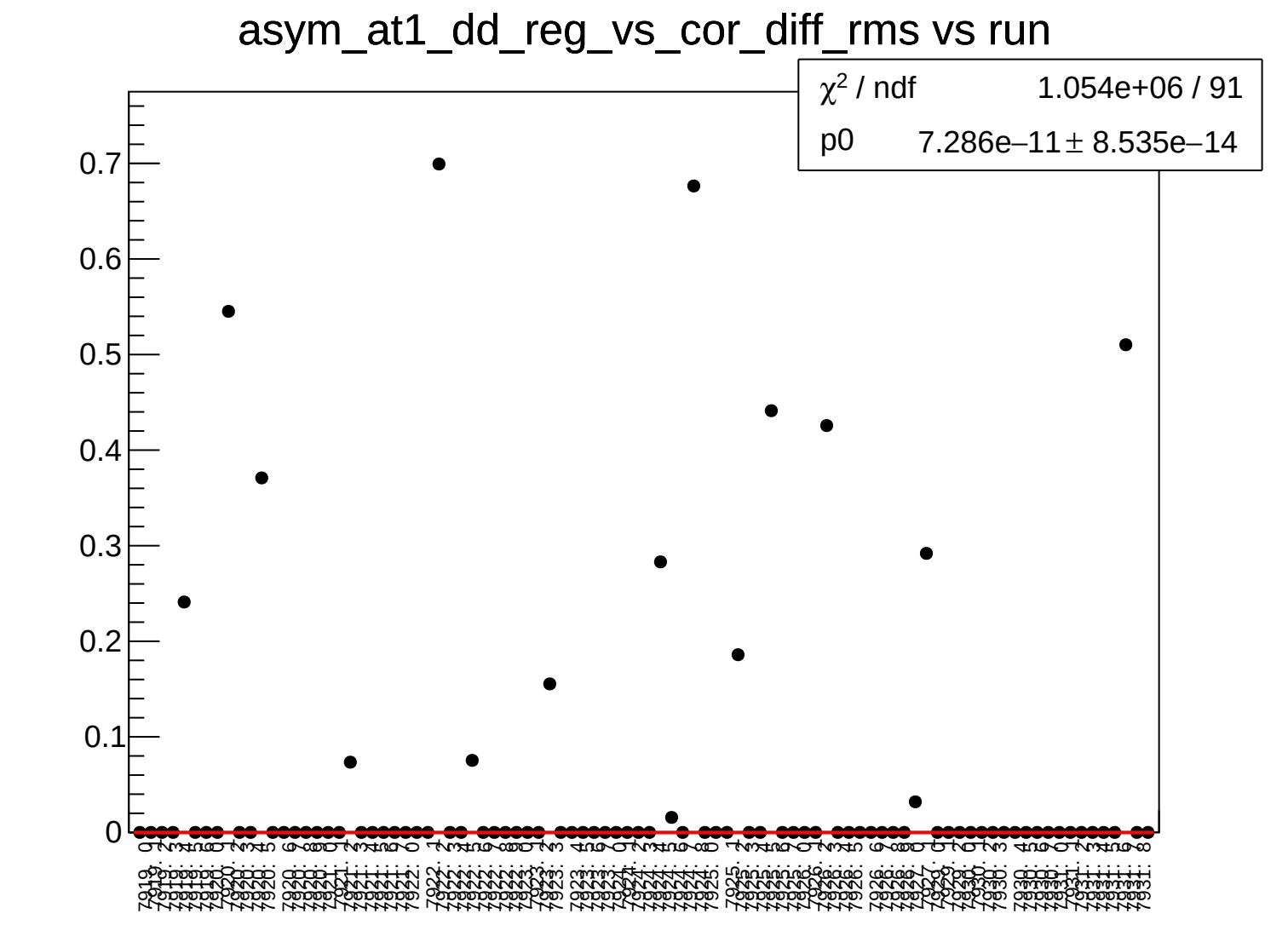

asym_at1_dd_mean vs run
χ² / ndf 82.83 / 91
p0 −777.7 ± 2130
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean 250.3
Std Dev 0
3
2
1
0
−1
−2

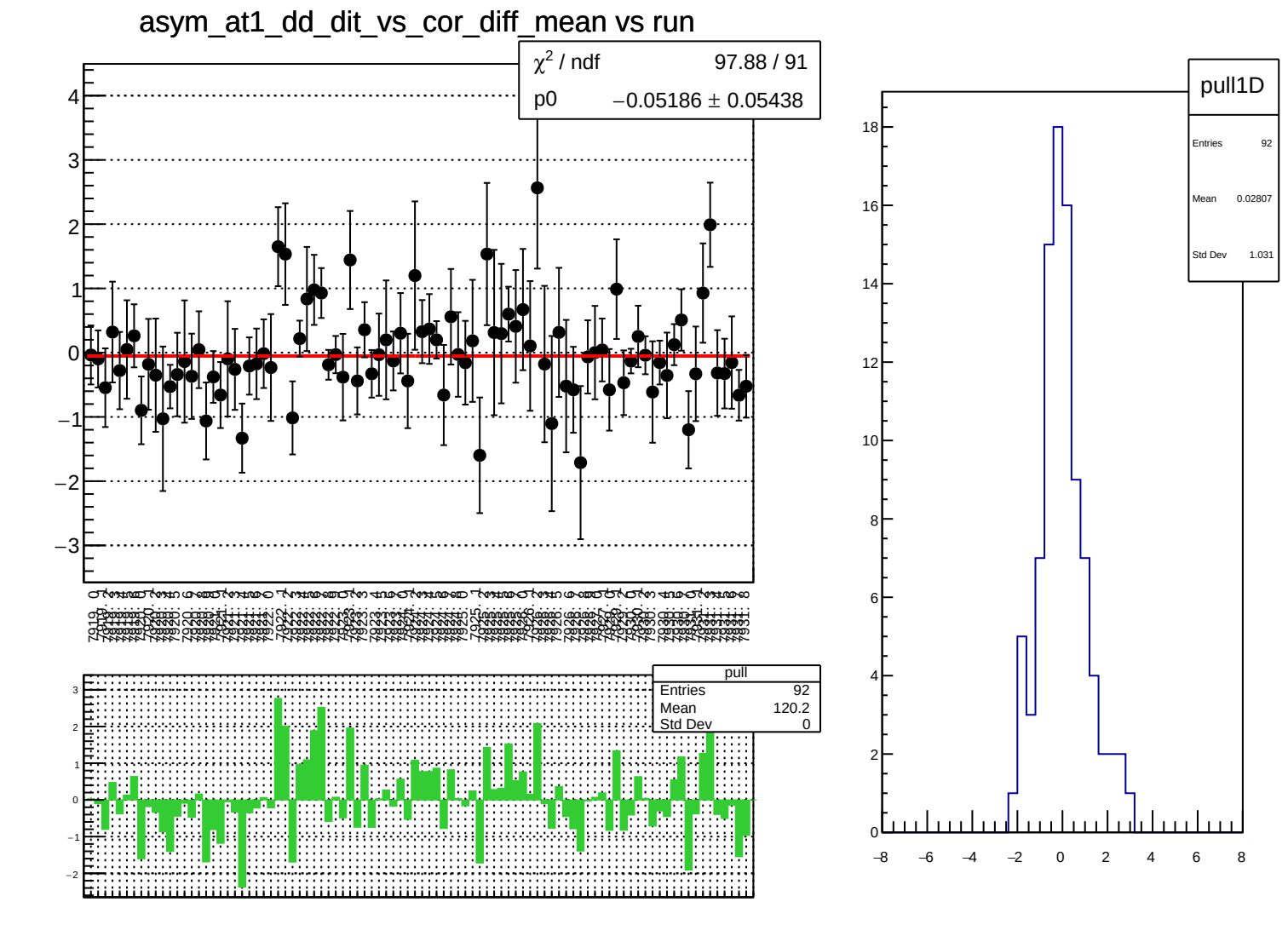

pull1D
Entries 92
Mean 0.003493
Std Dev 0.9488
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

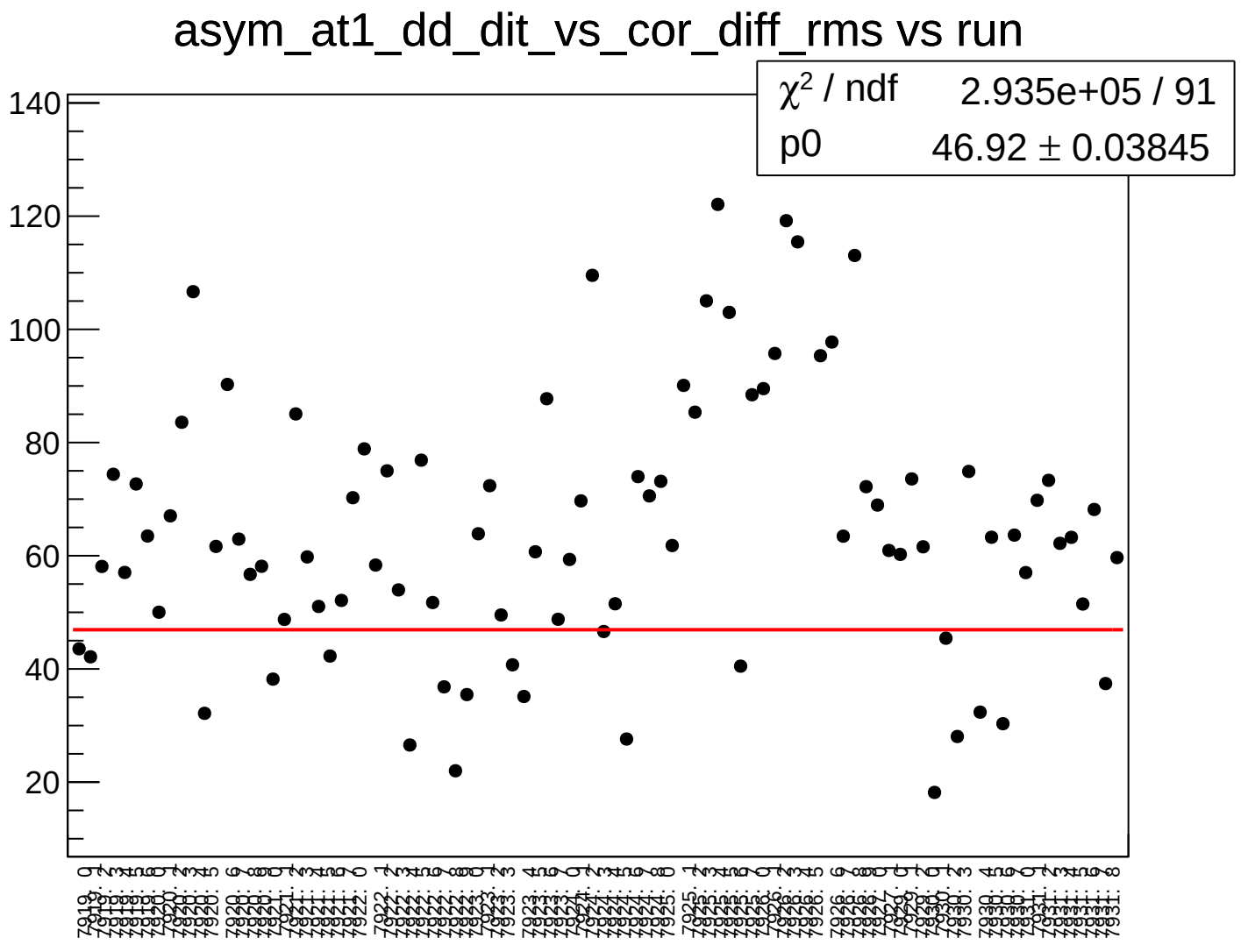

asym_at1_dd_rms vs run
χ² / ndf 124.7 / 91
p0 2011 ± 1.506
2080
2060
2040
2020
2000
1980
1960

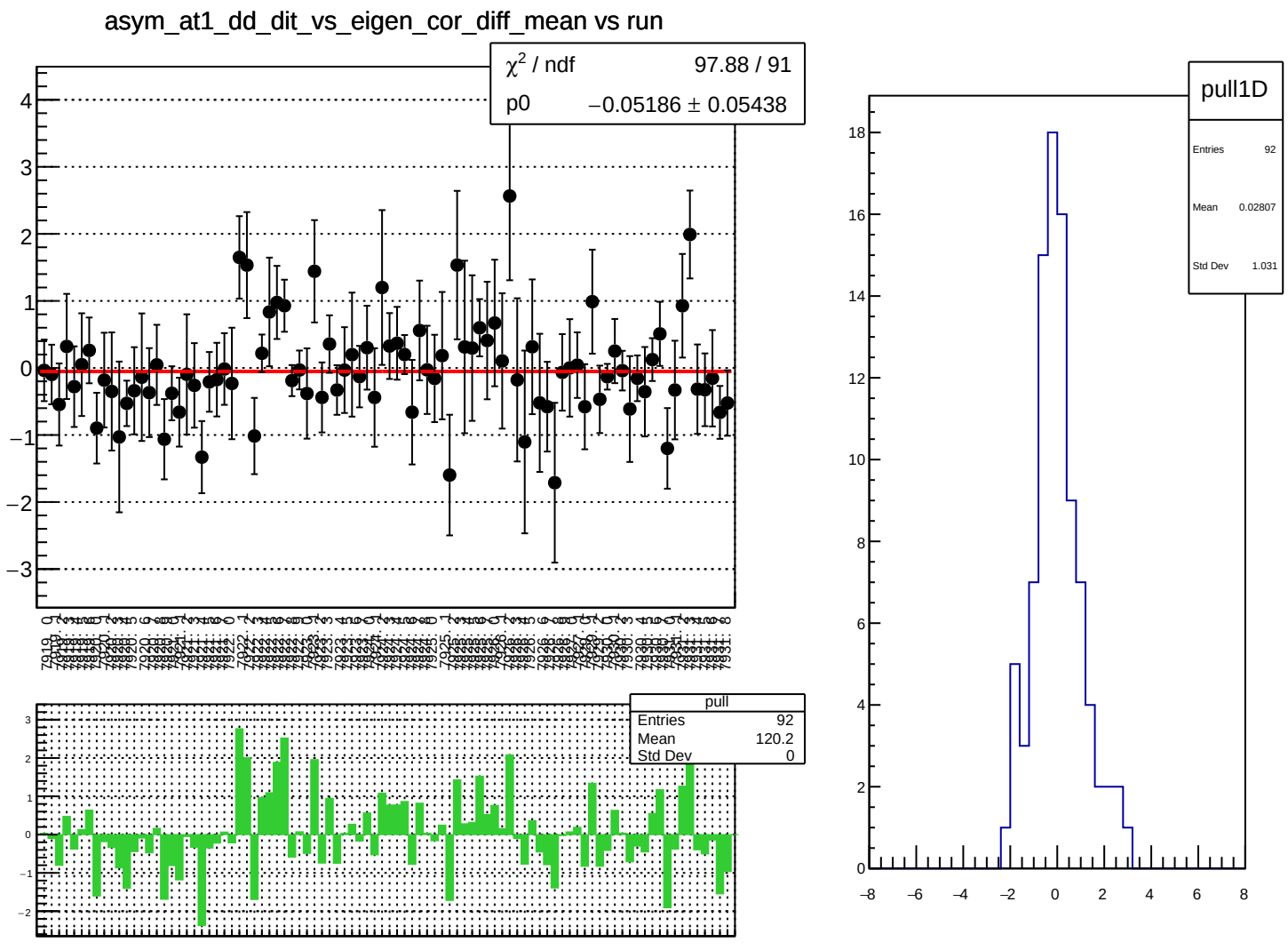

asym_at1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 76.92 / 91
p0 −3.571e−14 ± 1.207e−13
0.01
0.005
0
−0.005
−0.01
pull
Entries 92
Mean −56.12
Std Dev 0
2
1
0
−1
−2

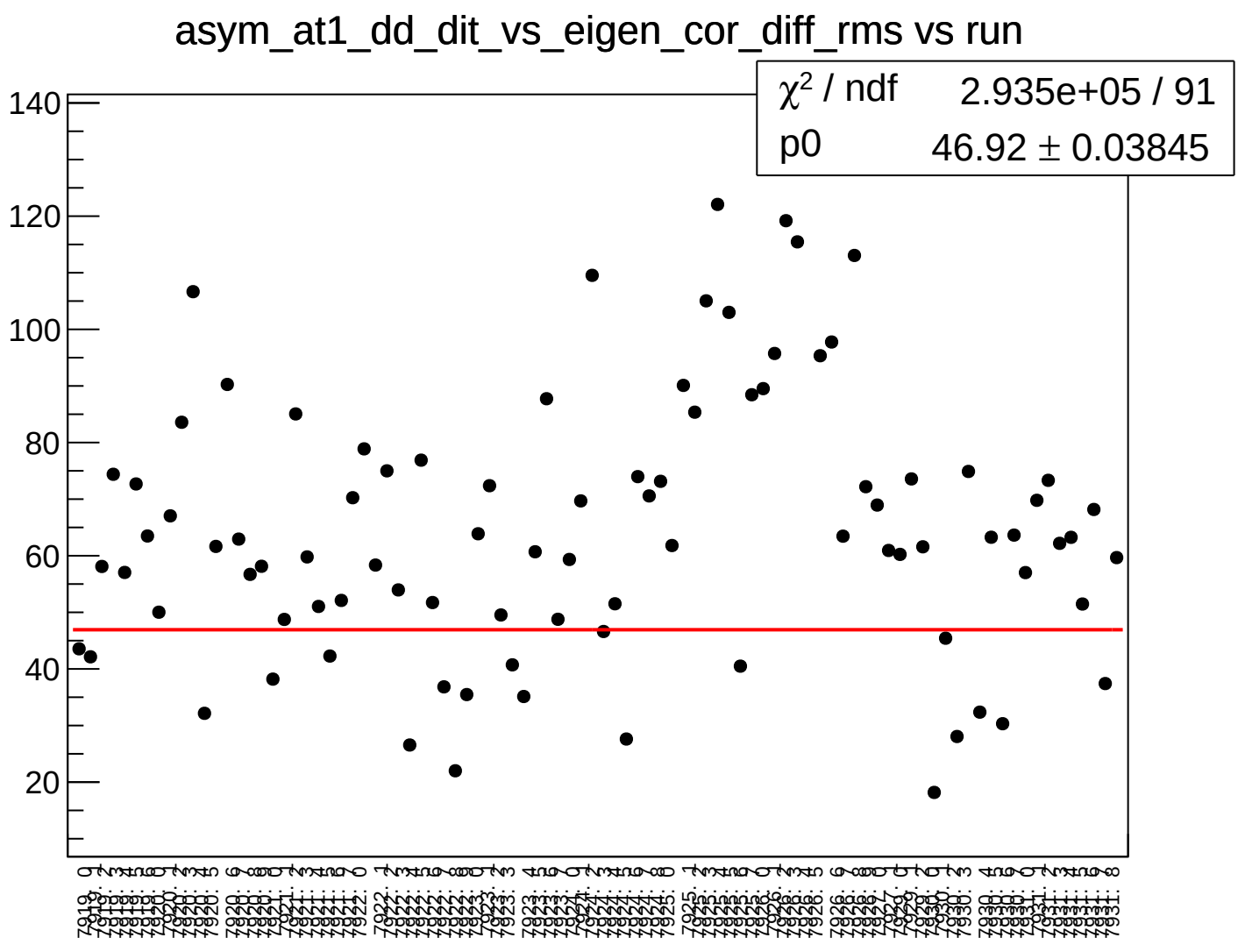

pull1D
Entries 92
Mean −0.03249
Std Dev 0.9138
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

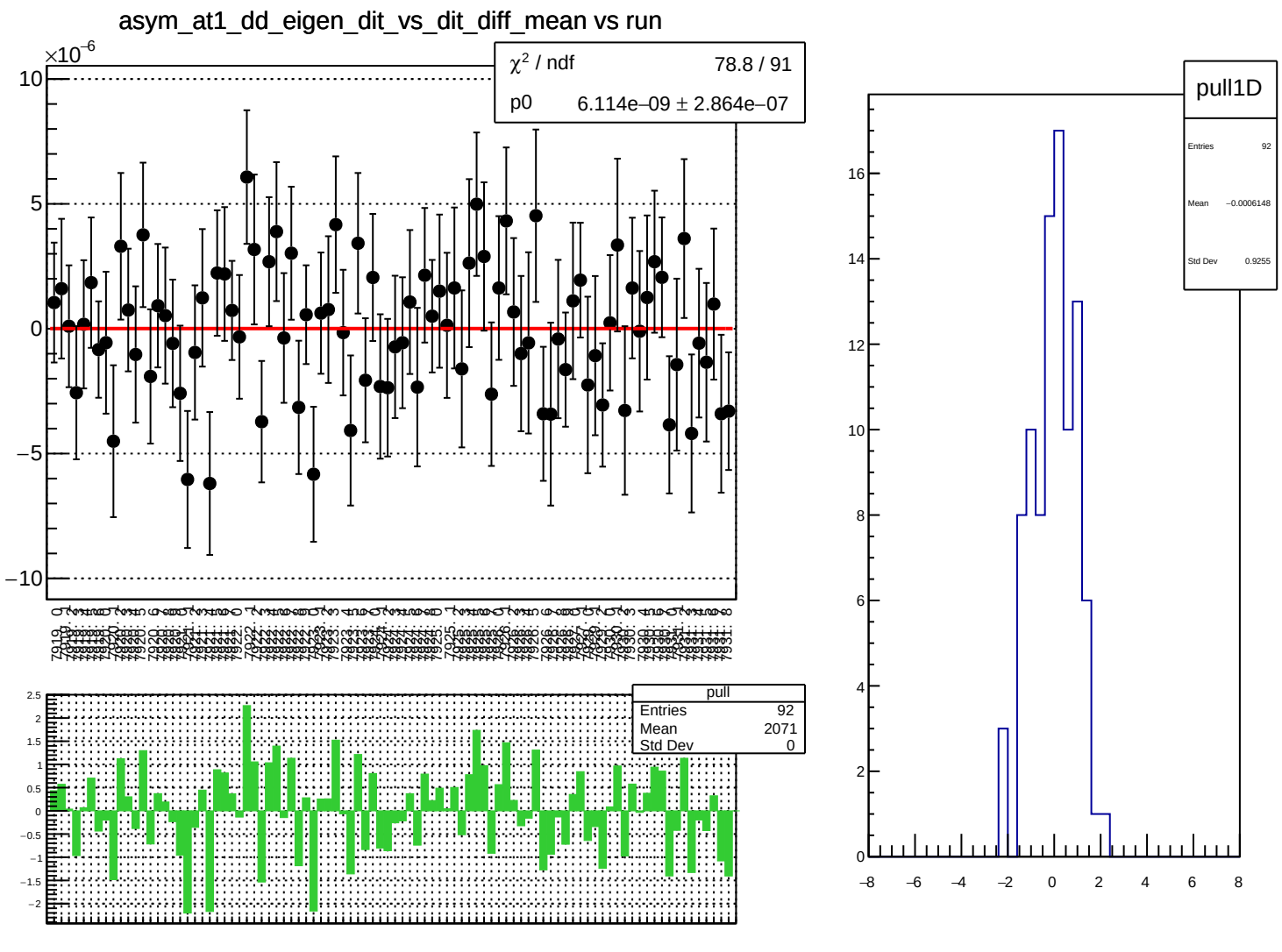

asym_at1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.054e+06 / 91
p0 7.286e−11 ± 8.535e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

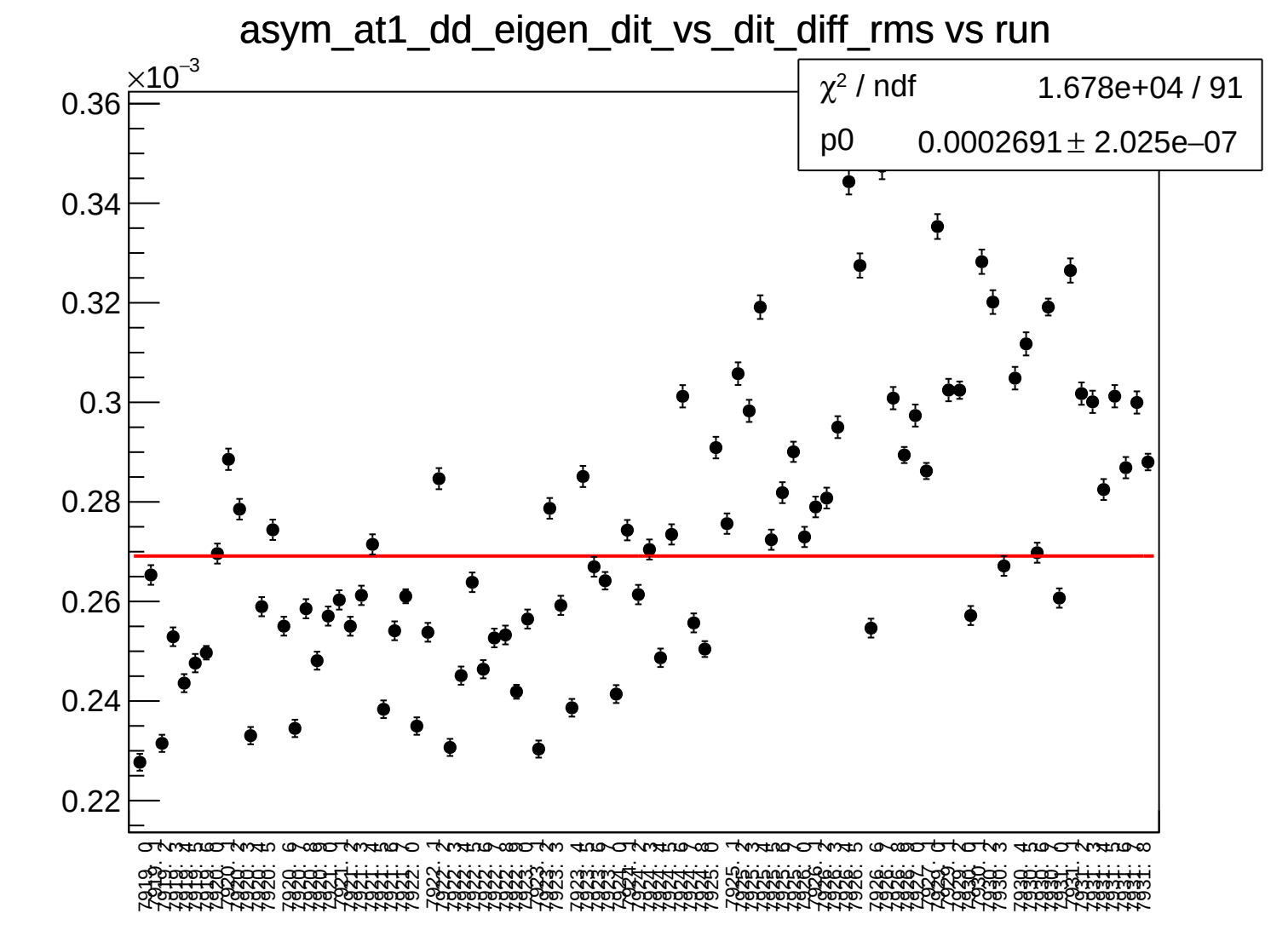

asym_at1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 97.88 / 91
p0 −0.05186 ± 0.05438
pull
Entries 92
Mean 120.2
Std Dev 0
pull1D
Entries 92
Mean 0.02807
Std Dev 1.031

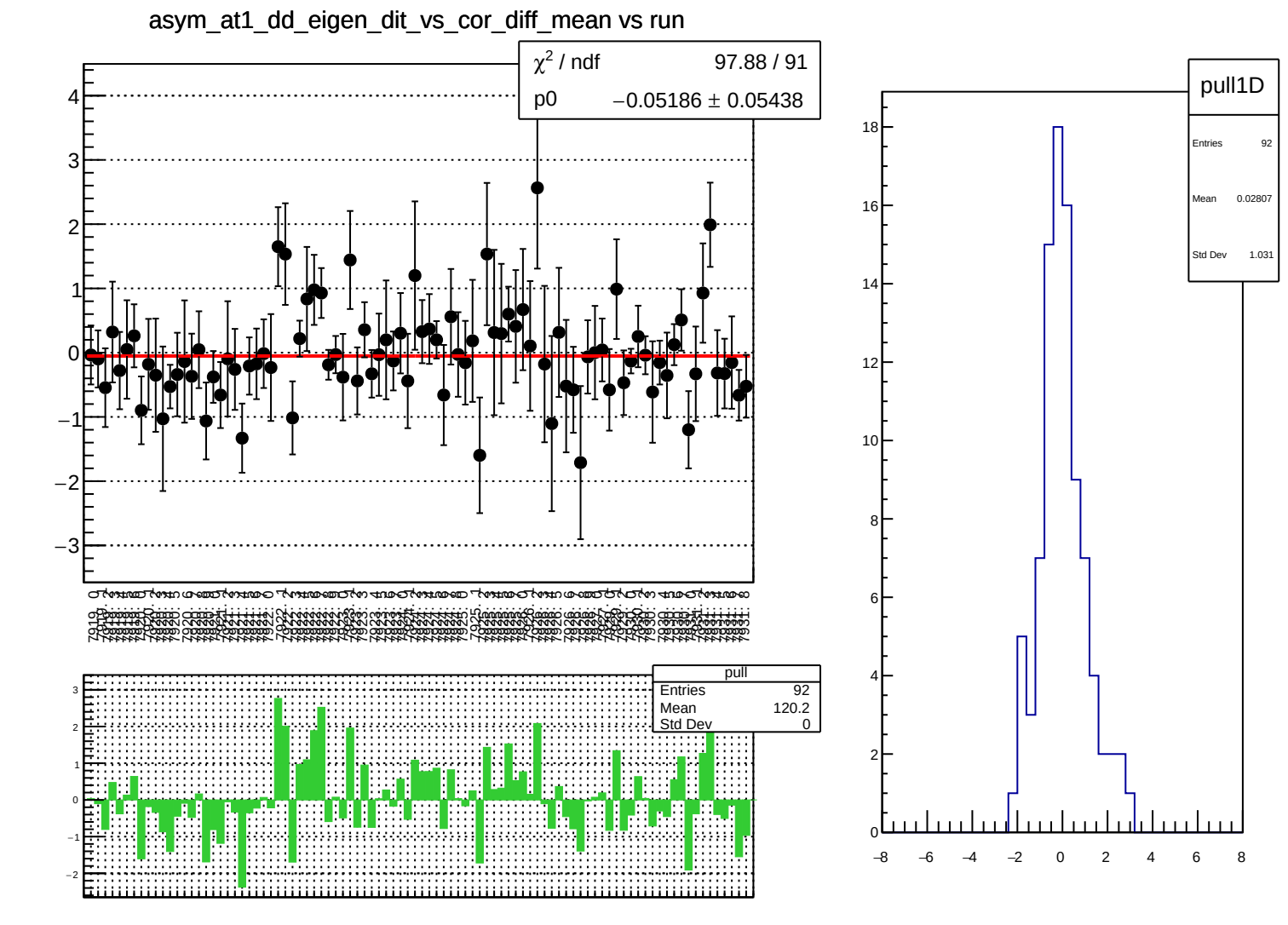

asym_at1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.935e+05 / 91
p0 46.92 ± 0.03845
140
120
100
80
60
40
20

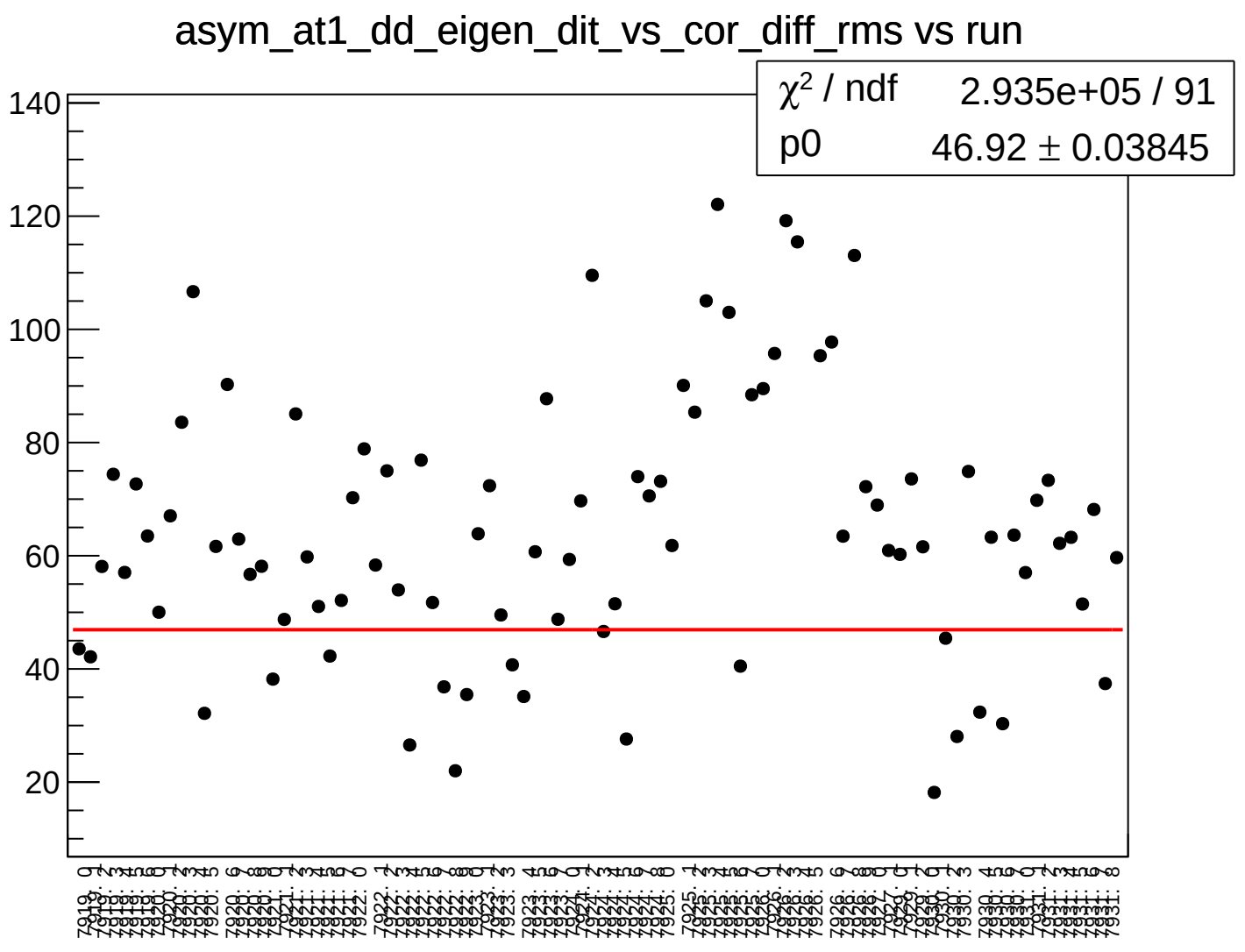

asym_at1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.88 / 91
p0 −0.05186 ± 0.05438
pull
Entries 92
Mean 120.2
Std Dev 0
pull1D
Entries 92
Mean 0.02807
Std Dev 1.031

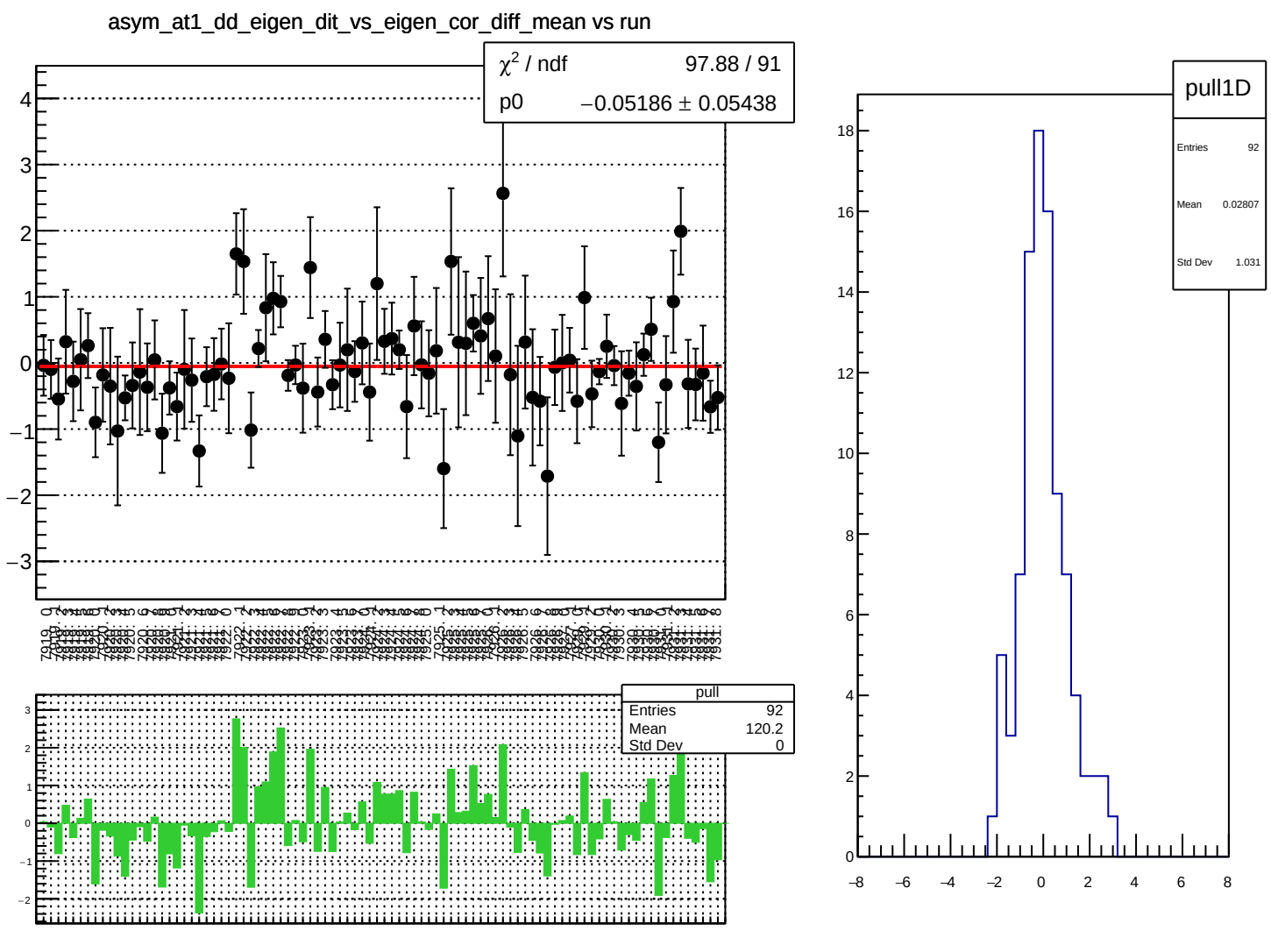

asym_at1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.935e+05 / 91
p0 46.92 ± 0.03845
140
120
100
80
60
40
20

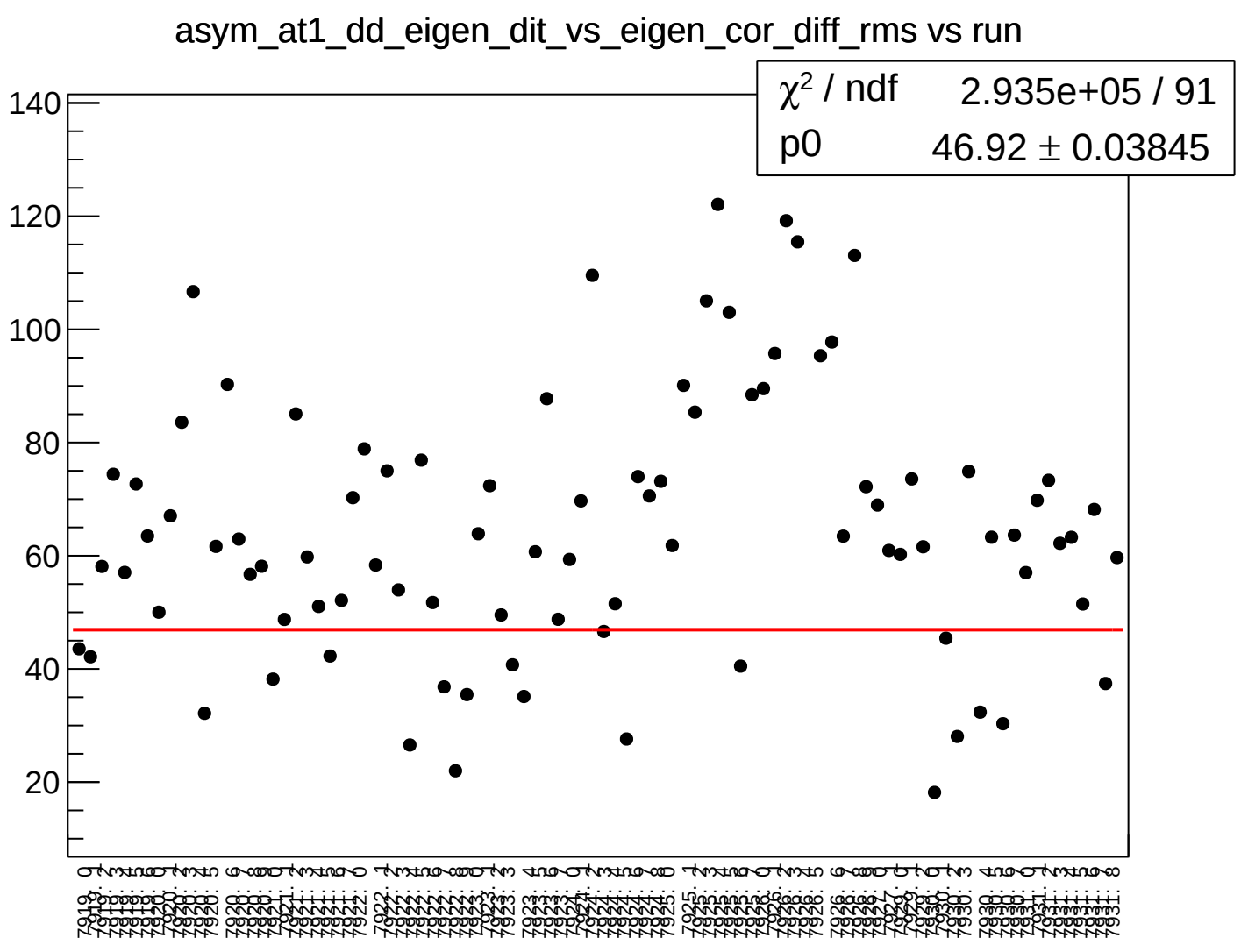

asym_at1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻⁶
χ² / ndf 78.8 / 91
p0 6.114e−09 ± 2.864e−07
pull
Entries 92
Mean 2071
Std Dev 0
pull1D
Entries 92
Mean −0.0006148
Std Dev 0.9255

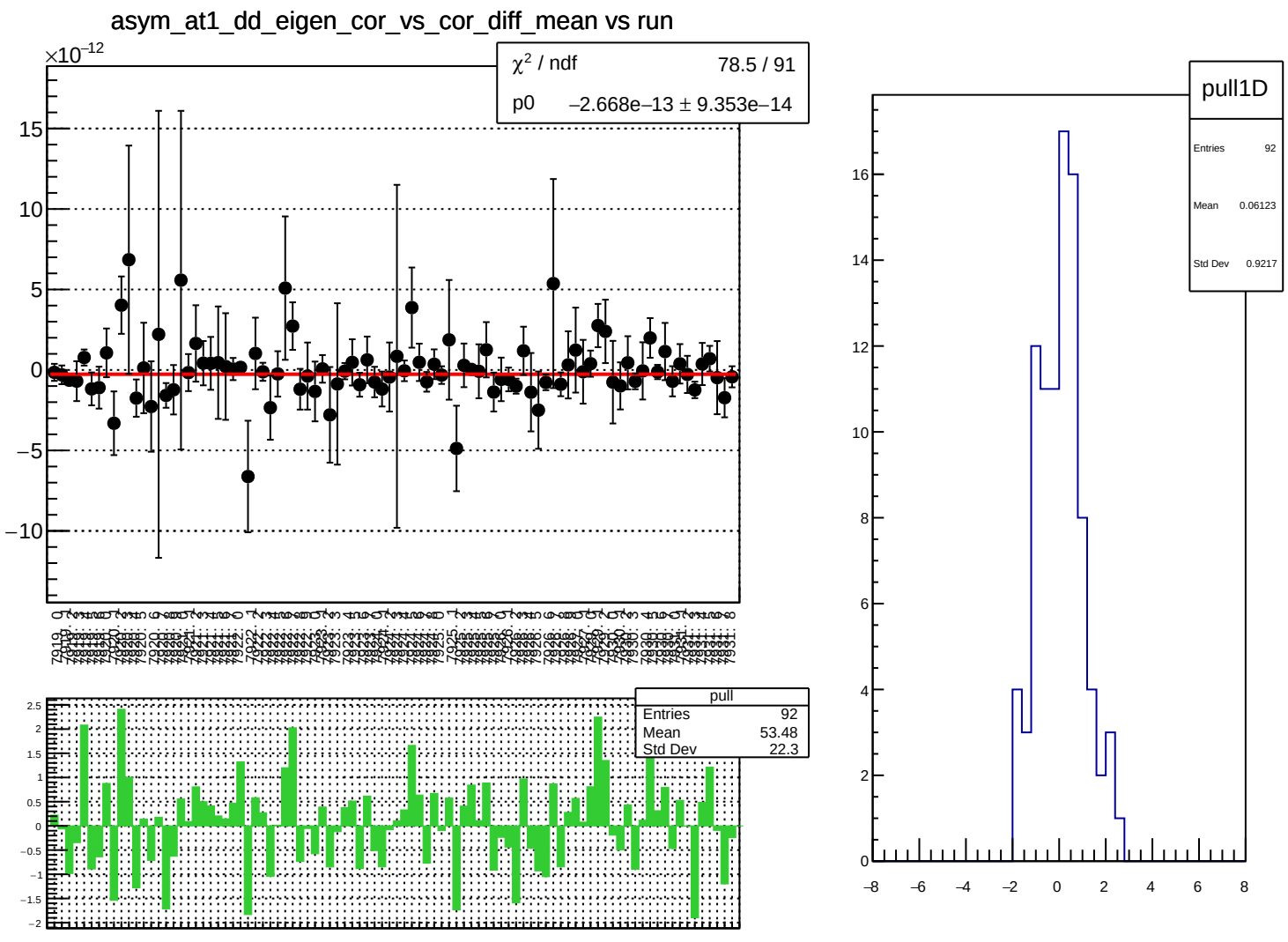

asym_at1_dd_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 1.678e+04 / 91
p0 0.0002691 ± 2.025e−07
0.36
0.34
0.32
0.3
0.28
0.26
0.24
0.22

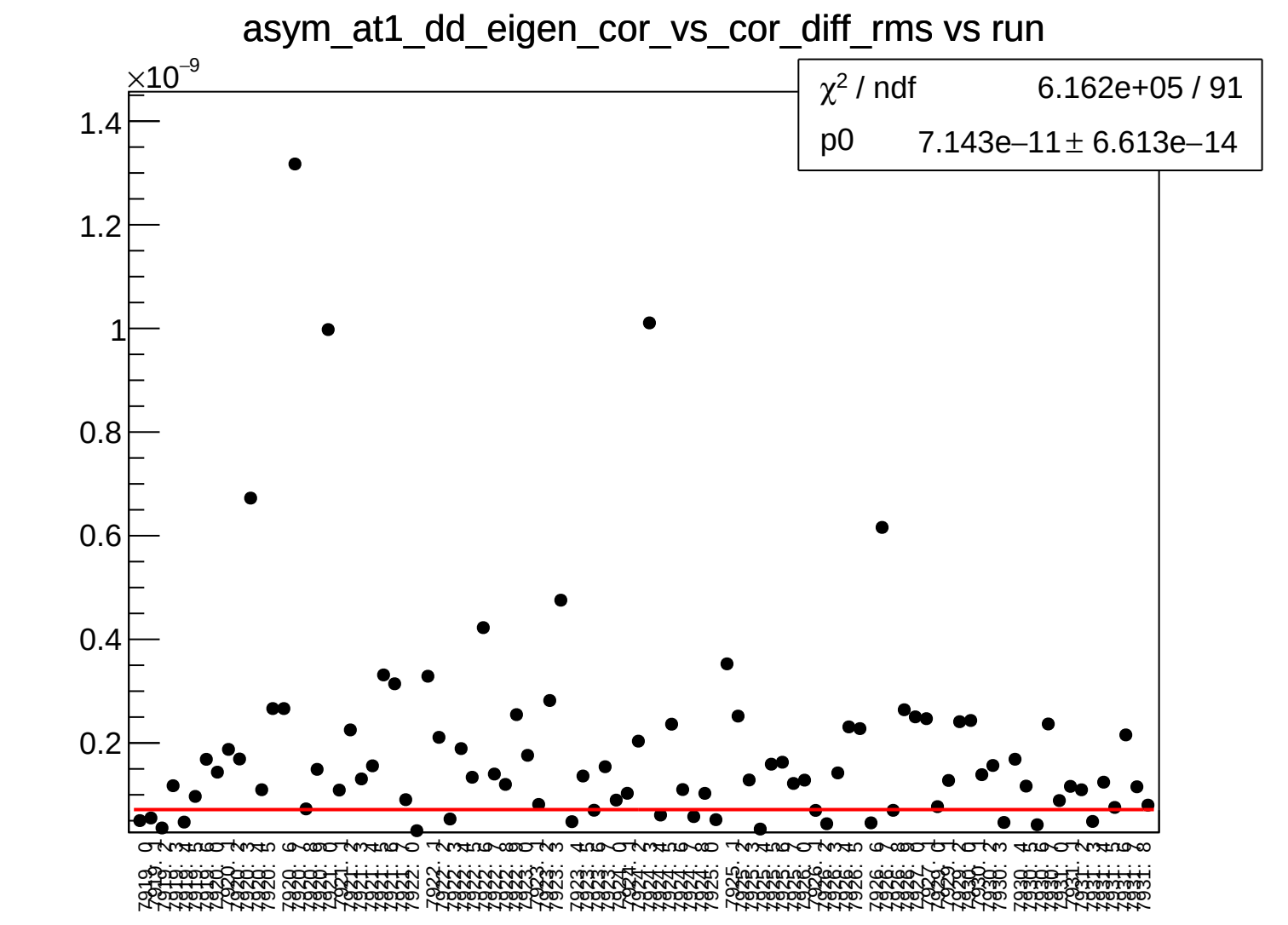

asym_at1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 97.88 / 91
p0 −0.05186 ± 0.05438
pull
Entries 92
Mean 120.2
Std Dev 0
pull1D
Entries 92
Mean 0.02807
Std Dev 1.031

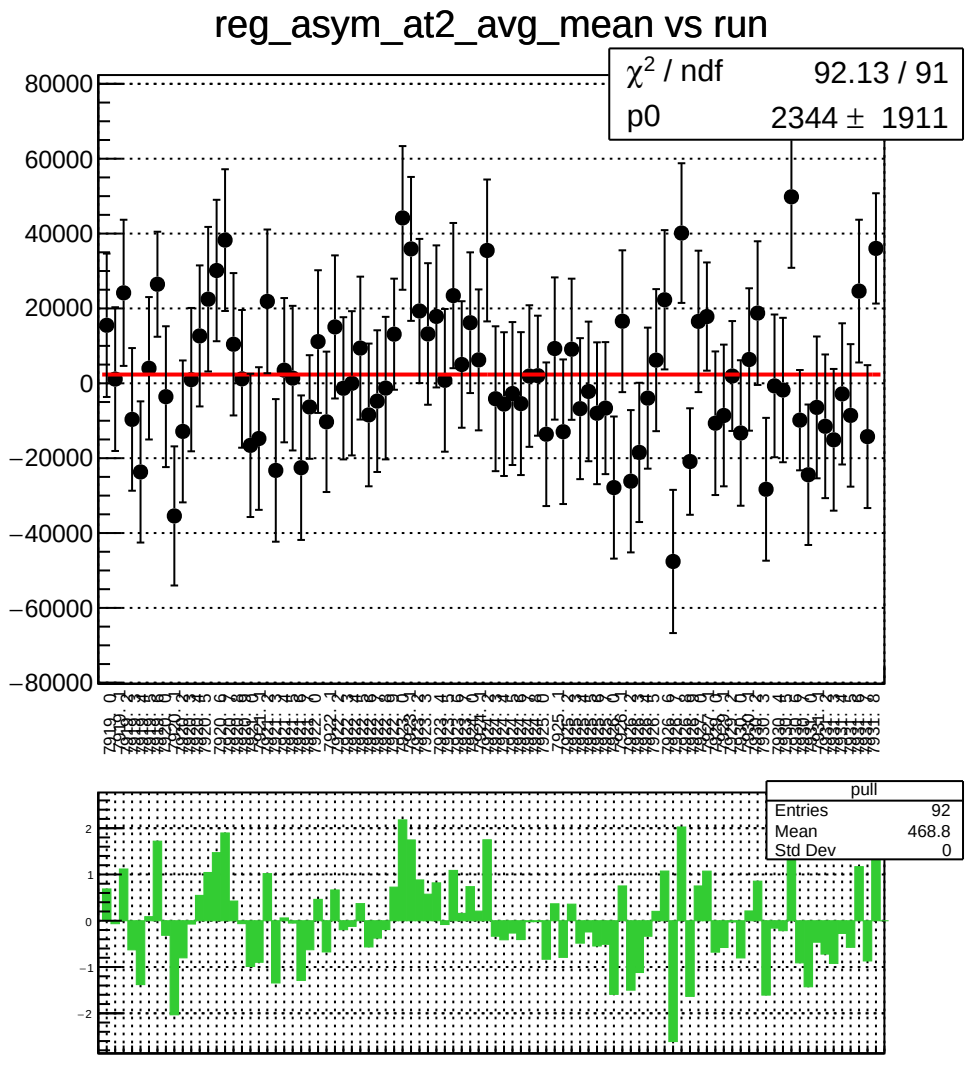

asym_at1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.935e+05 / 91
p0 46.92 ± 0.03845
140
120
100
80
60
40
20

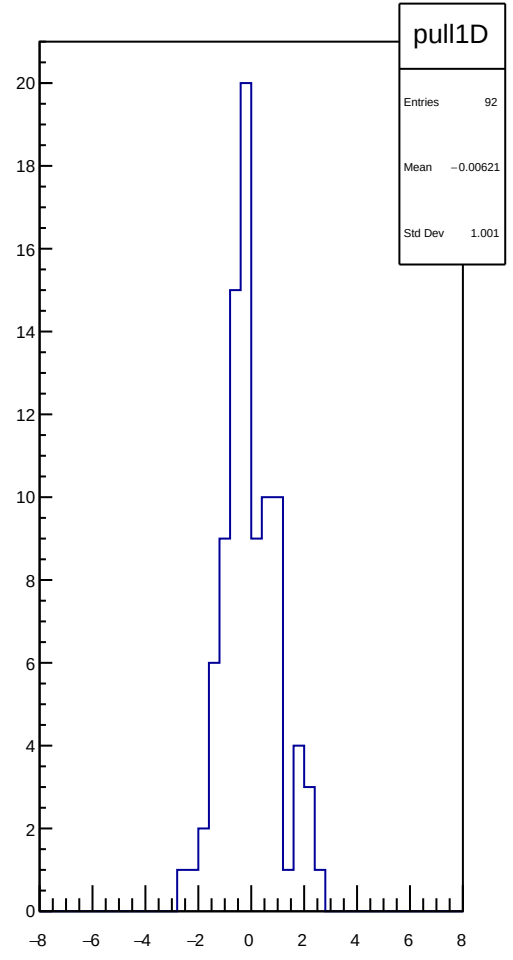

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.88 / 91
p0 −0.05186 ± 0.05438
pull
Entries 92
Mean 120.2
Std Dev 0
pull1D
Entries 92
Mean 0.02807
Std Dev 1.031

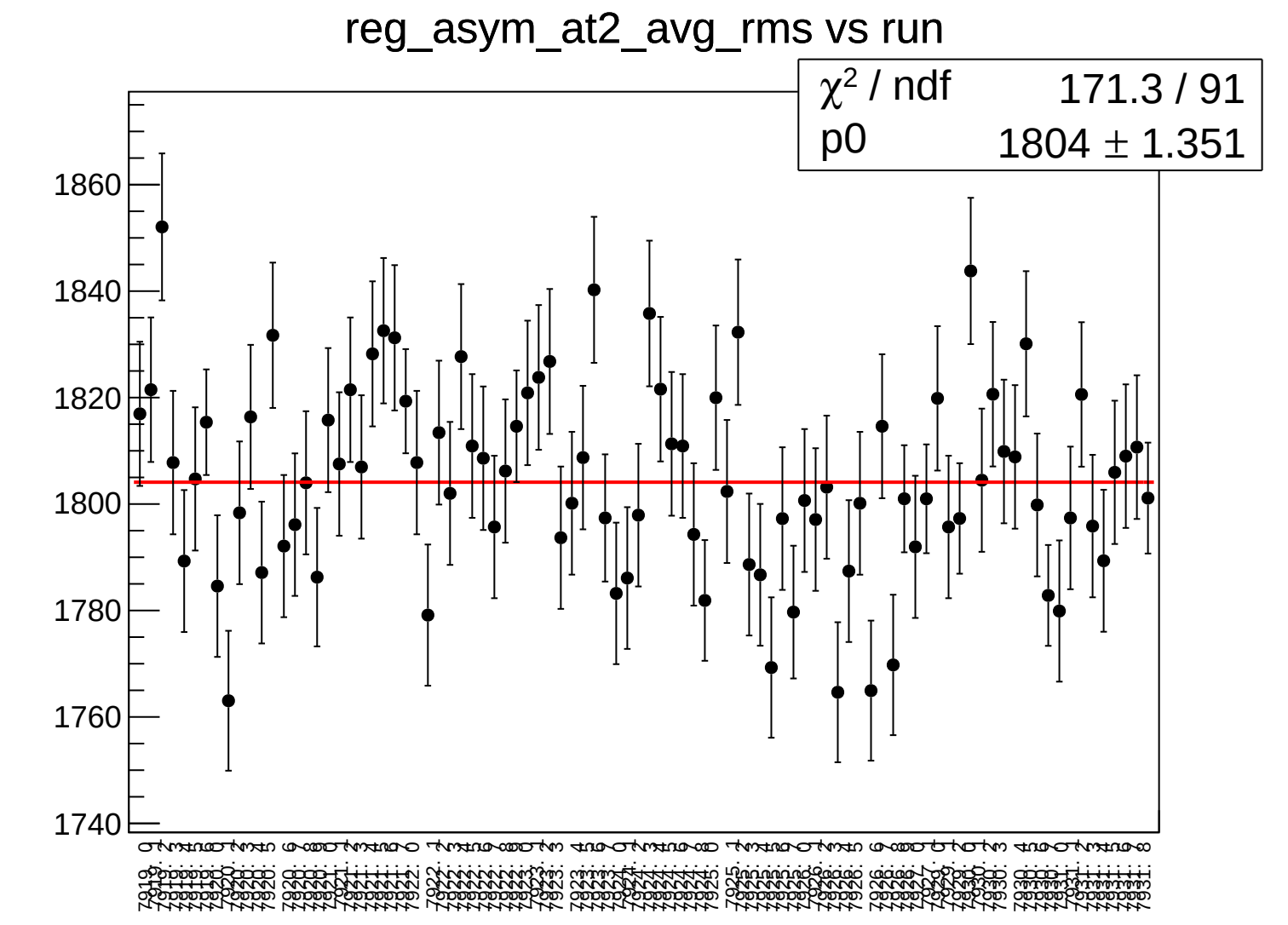

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.935e+05 / 91
p0 46.92 ± 0.03845
140
120
100
80
60
40
20

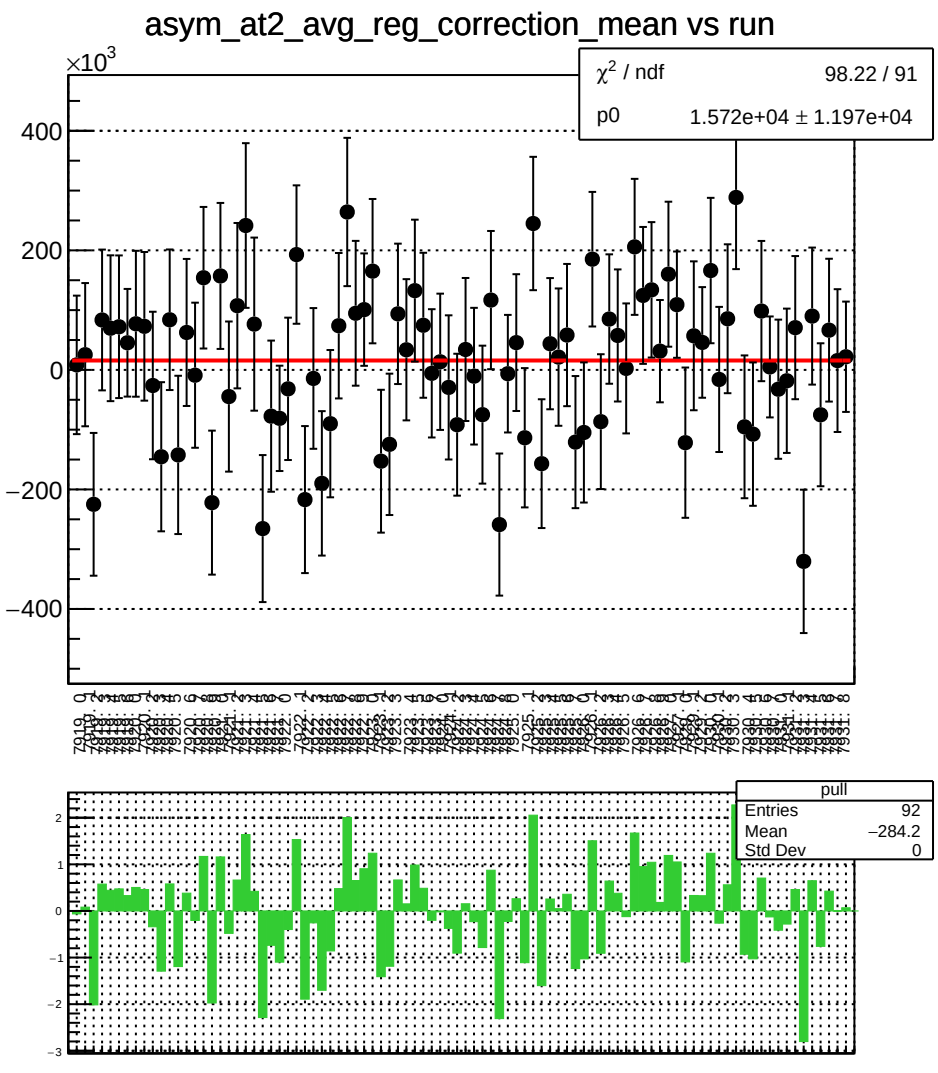

asym_at1_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 78.5 / 91
p0 −2.668e−13 ± 9.353e−14
pull
Entries 92
Mean 53.48
Std Dev 22.3
pull1D
Entries 92
Mean 0.06123
Std Dev 0.9217

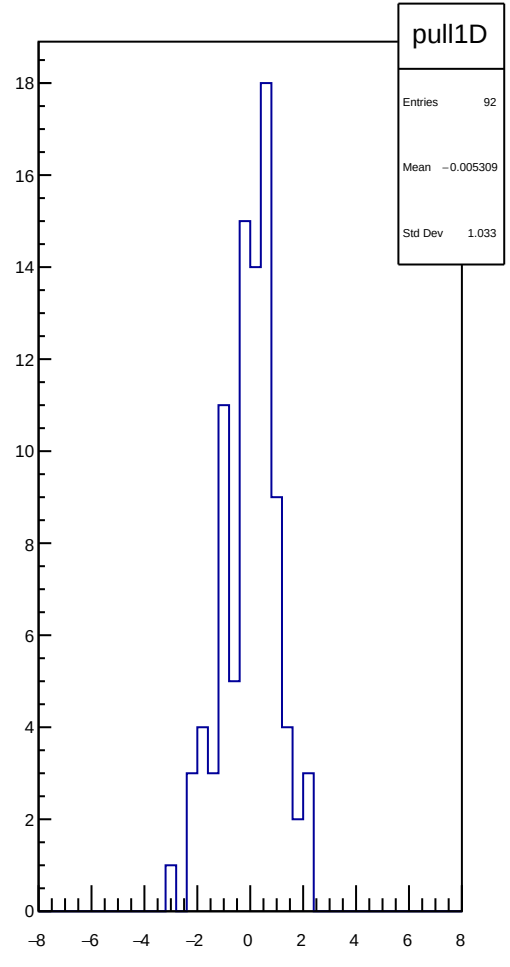

asym_at1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.162e+05 / 91
p0 7.143e−11 ± 6.613e−14
1.4
1.2
1
0.8
0.6
0.4
0.2

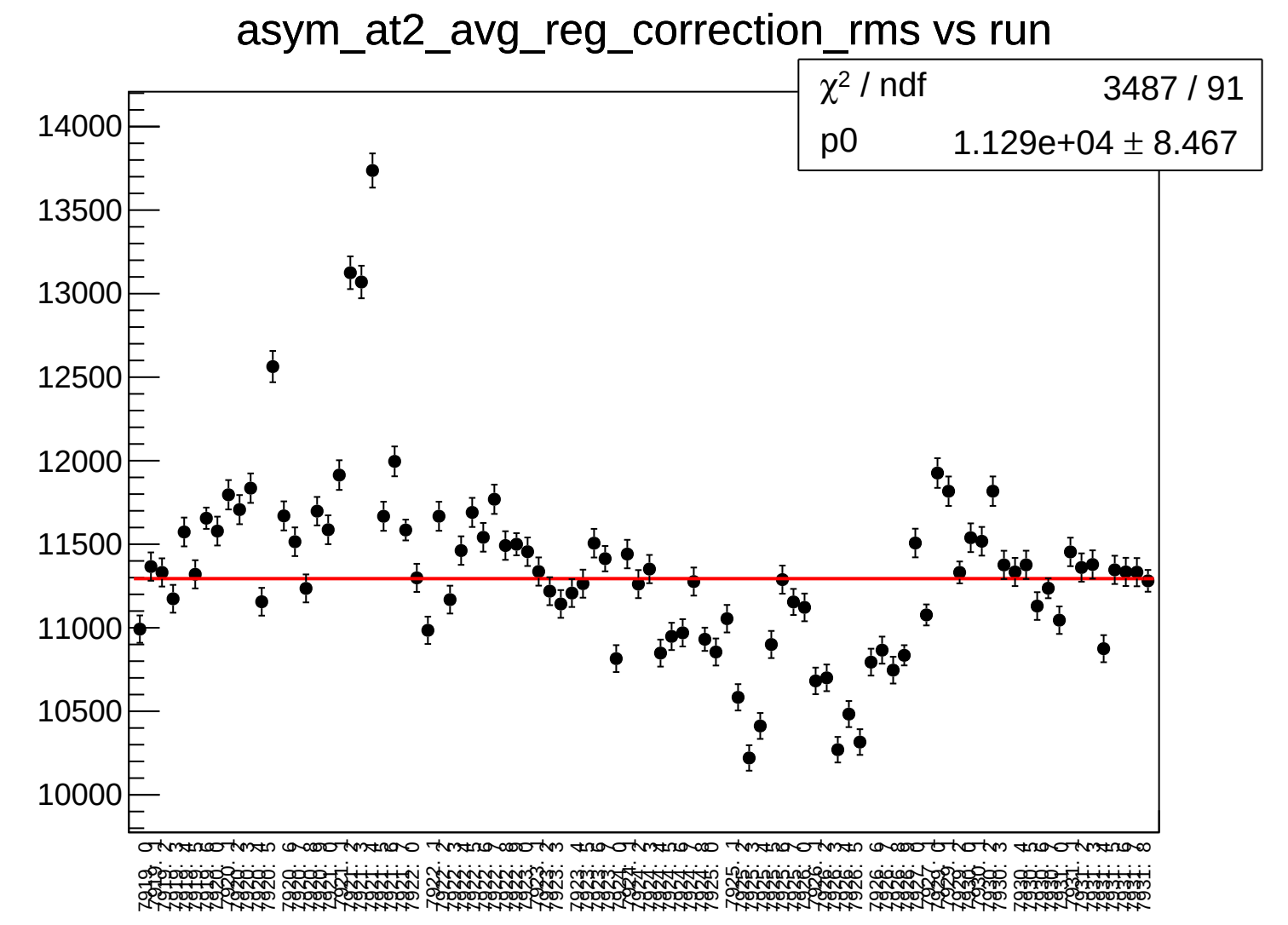

reg_asym_at2_avg_mean vs run
χ² / ndf 92.13 / 91
p0 2344 ± 1911
pull
Entries 92
Mean 468.8
Std Dev 0

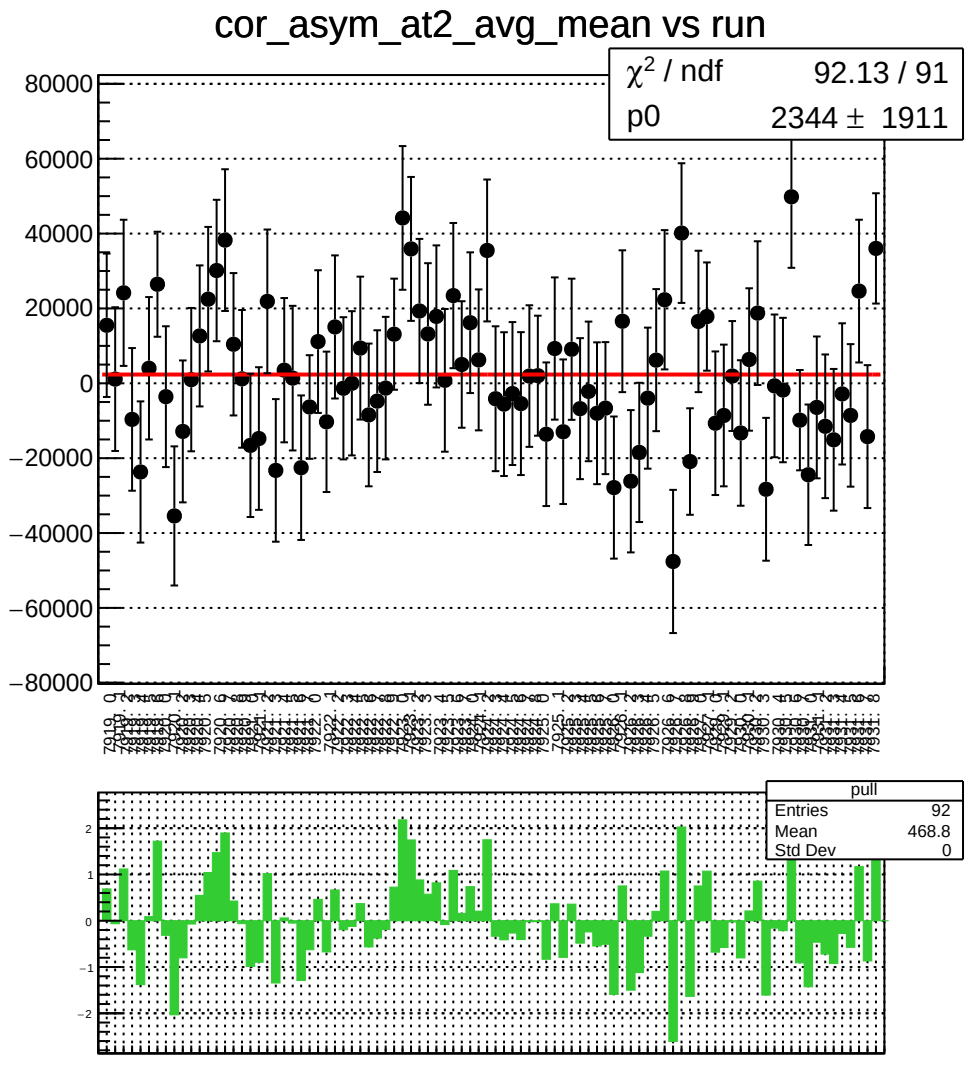

pull1D
Entries 92
Mean −0.00621
Std Dev 1.001

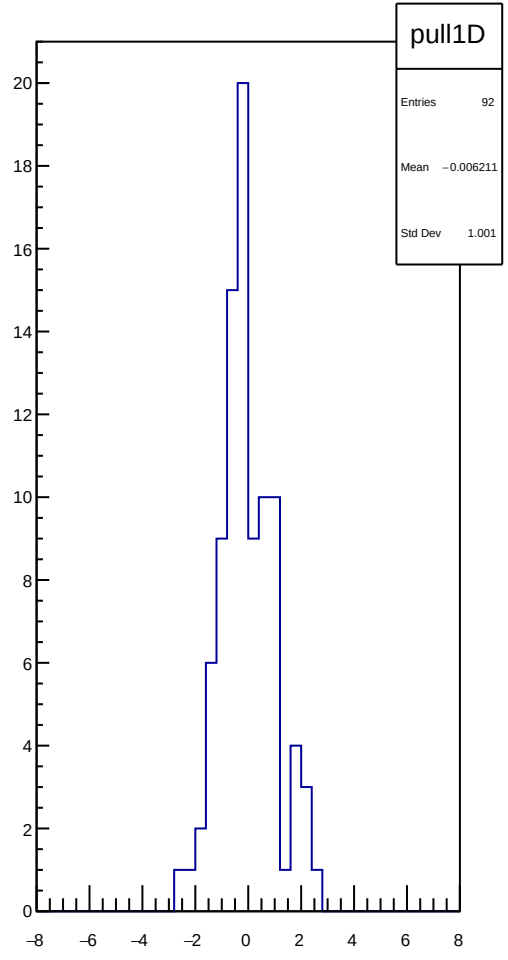

reg_asym_at2_avg_rms vs run
χ^2 / ndf 171.3 / 91
p0 1804 ± 1.351
1860
1840
1820
1800
1780
1760
1740

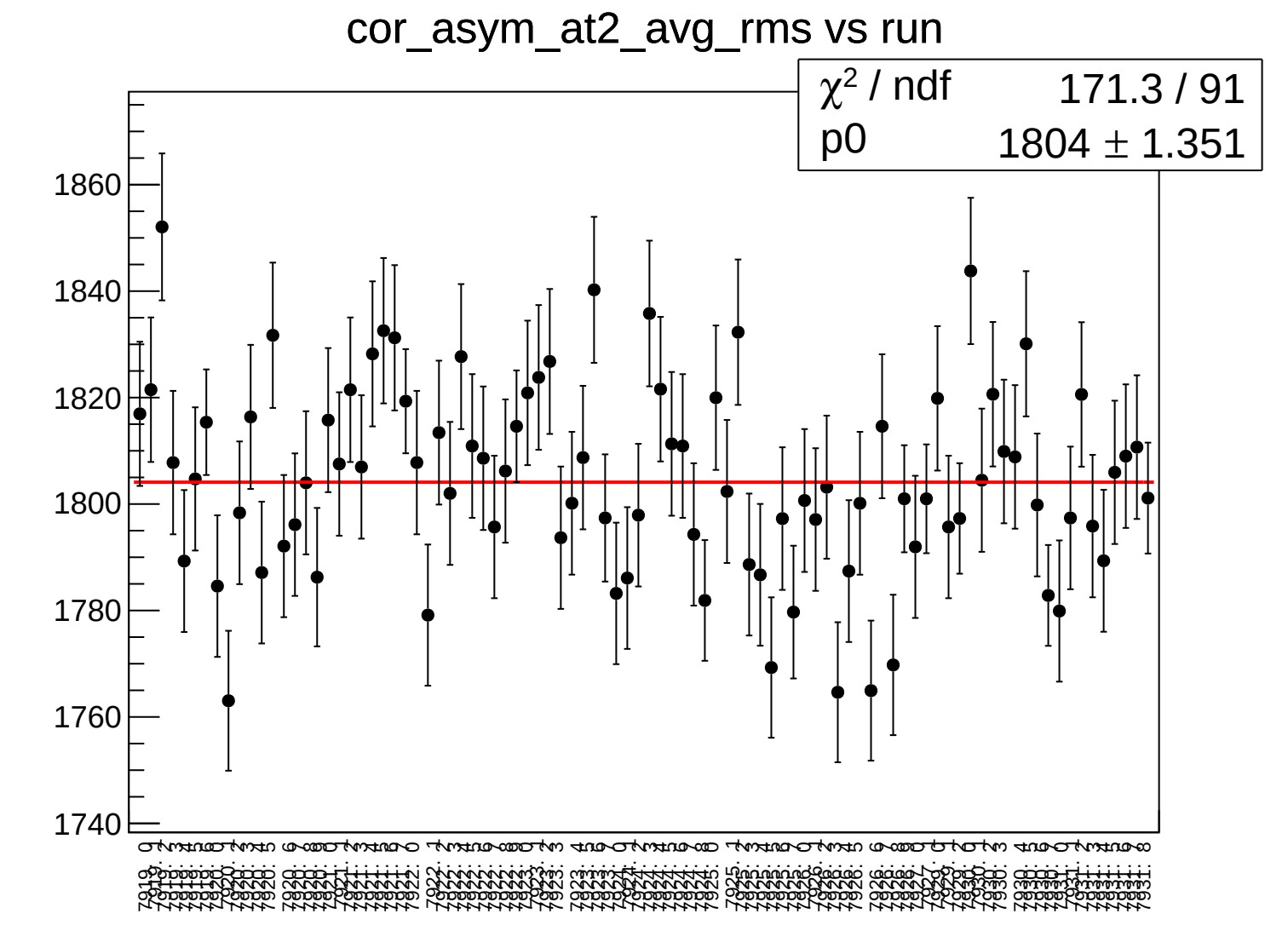

asym_at2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 98.22 / 91
p0 1.572e+04 ± 1.197e+04
400
200
0
−200
−400
pull
Entries 92
Mean −284.2
Std Dev 0
2
1
0
−1
−2
−3

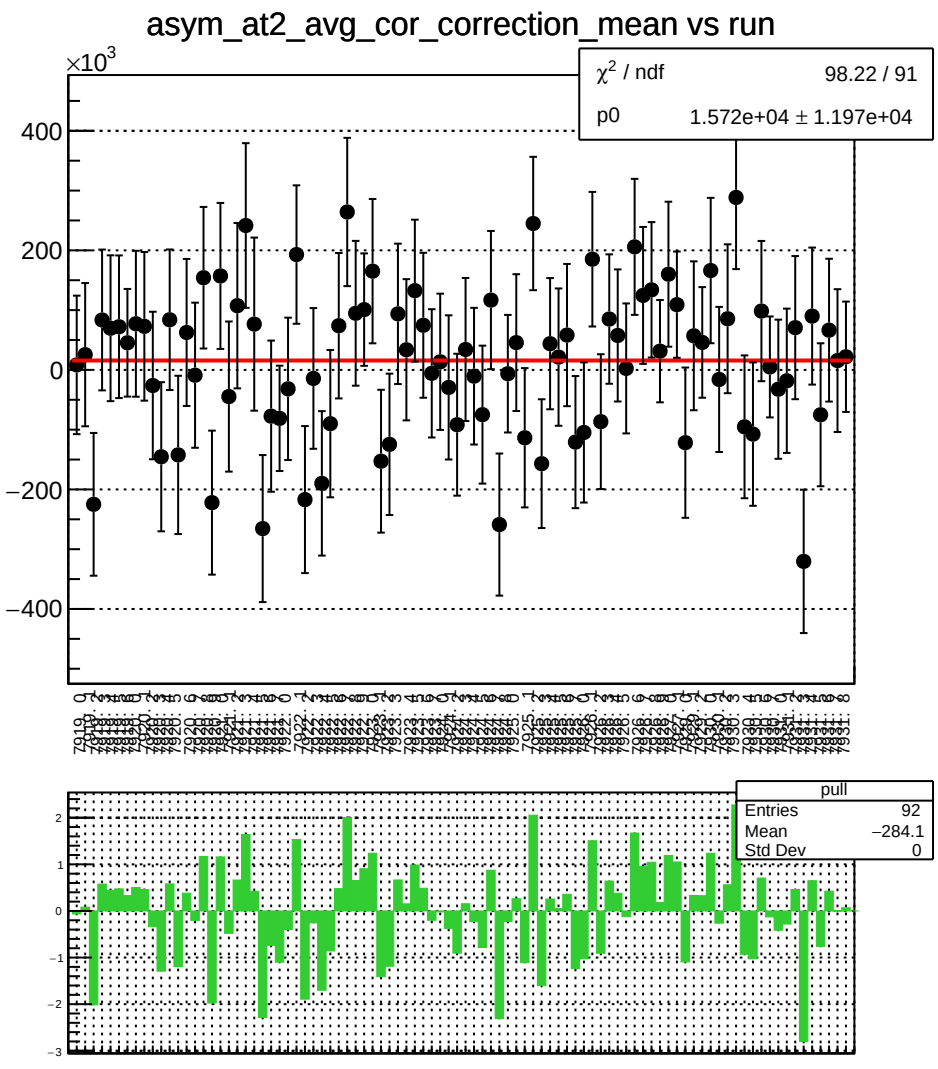

pull1D
Entries 92
Mean −0.005309
Std Dev 1.033
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

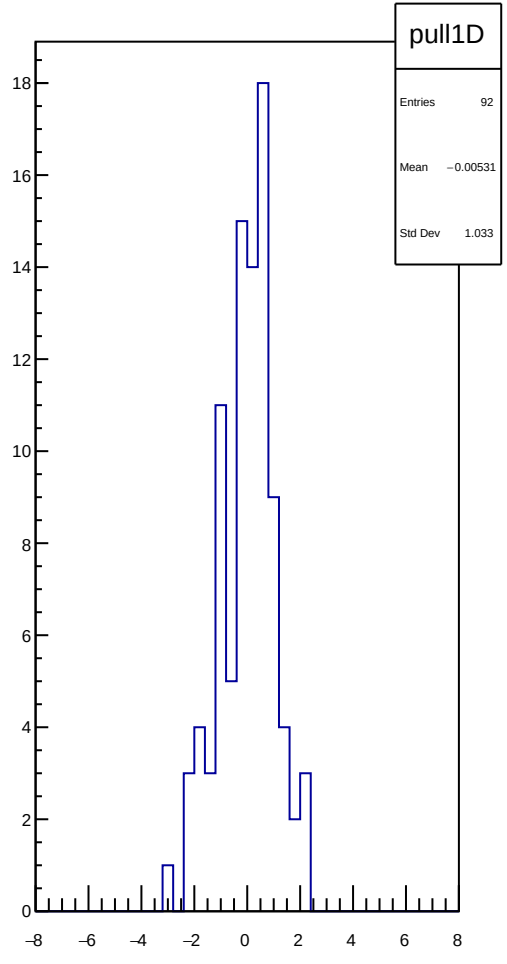

asym_at2_avg_reg_correction_rms vs run
χ² / ndf 3487 / 91
p0 1.129e+04 ± 8.467
14000
13500
13000
12500
12000
11500
11000
10500
10000

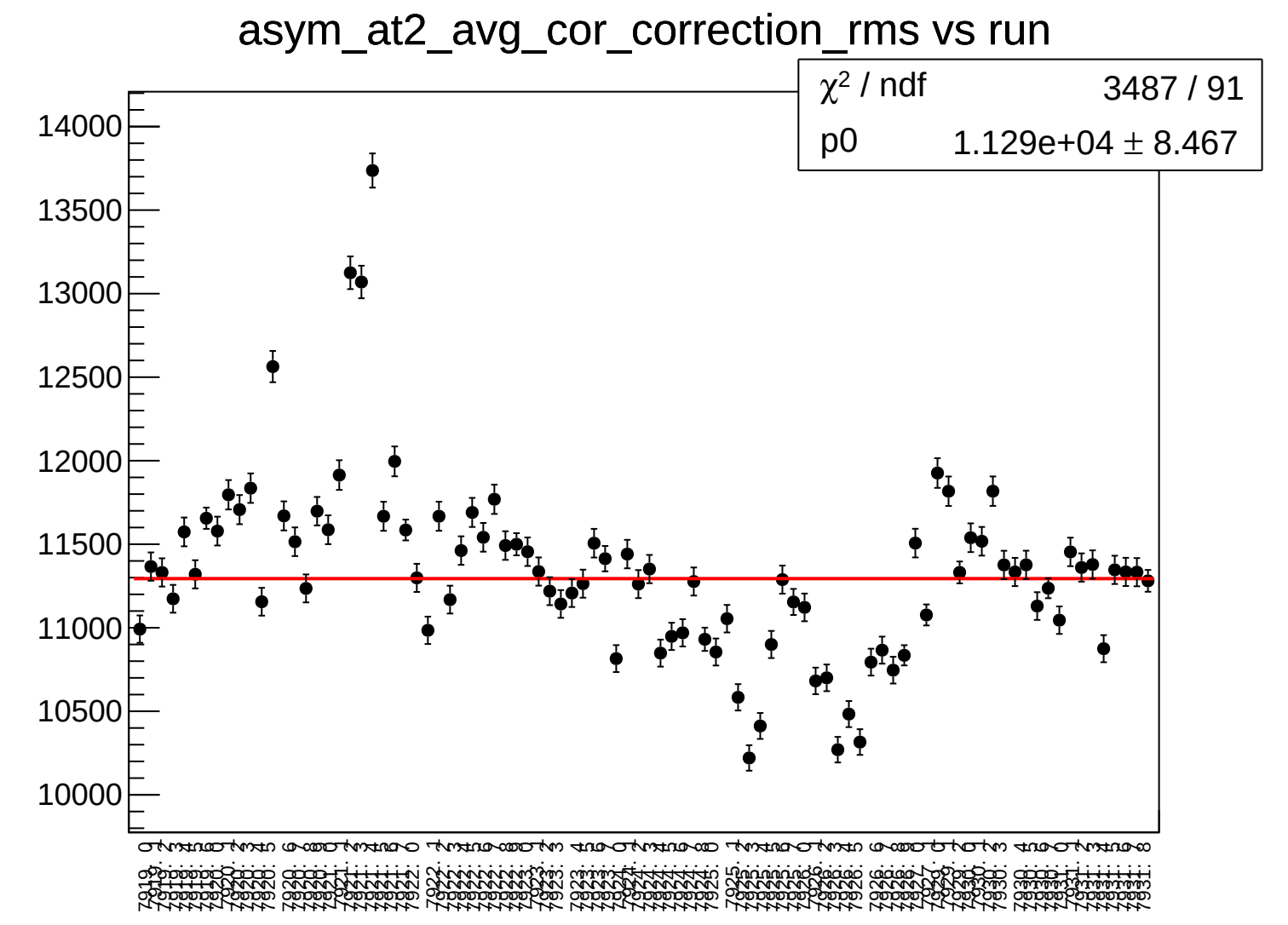

cor_asym_at2_avg_mean vs run
χ² / ndf 92.13 / 91
p0 2344 ± 1911
pull
Entries 92
Mean 468.8
Std Dev 0

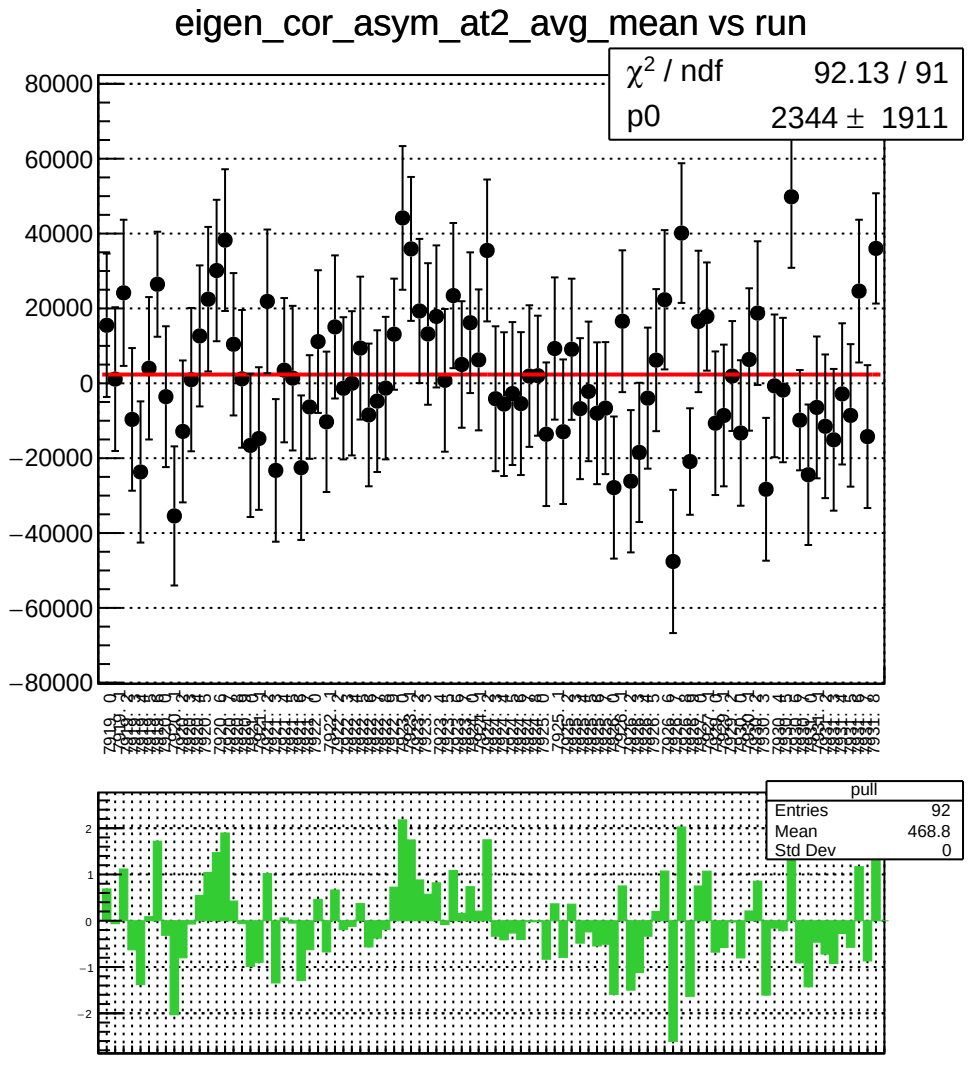

pull1D
Entries 92
Mean −0.006211
Std Dev 1.001

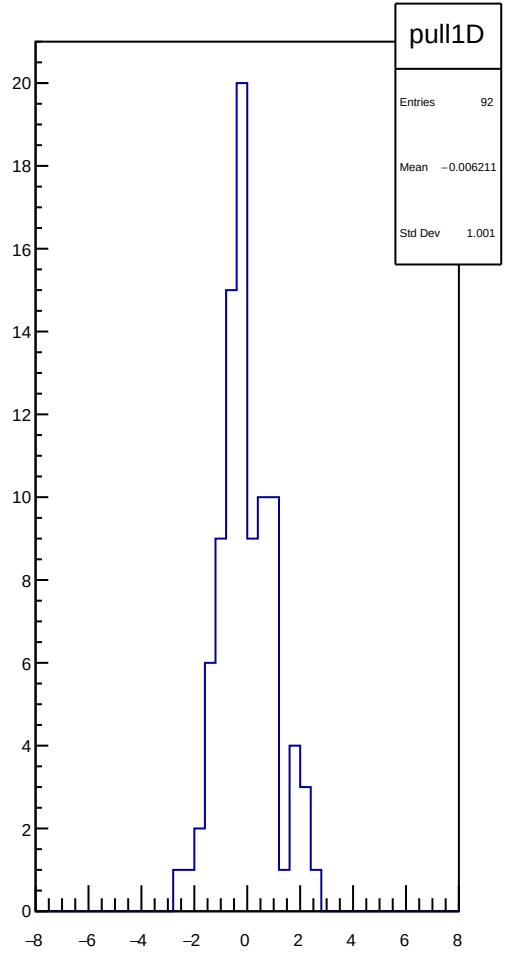

cor_asym_at2_avg_rms vs run
χ^2 / ndf 171.3 / 91
p0 1804 ± 1.351
1860
1840
1820
1800
1780
1760
1740

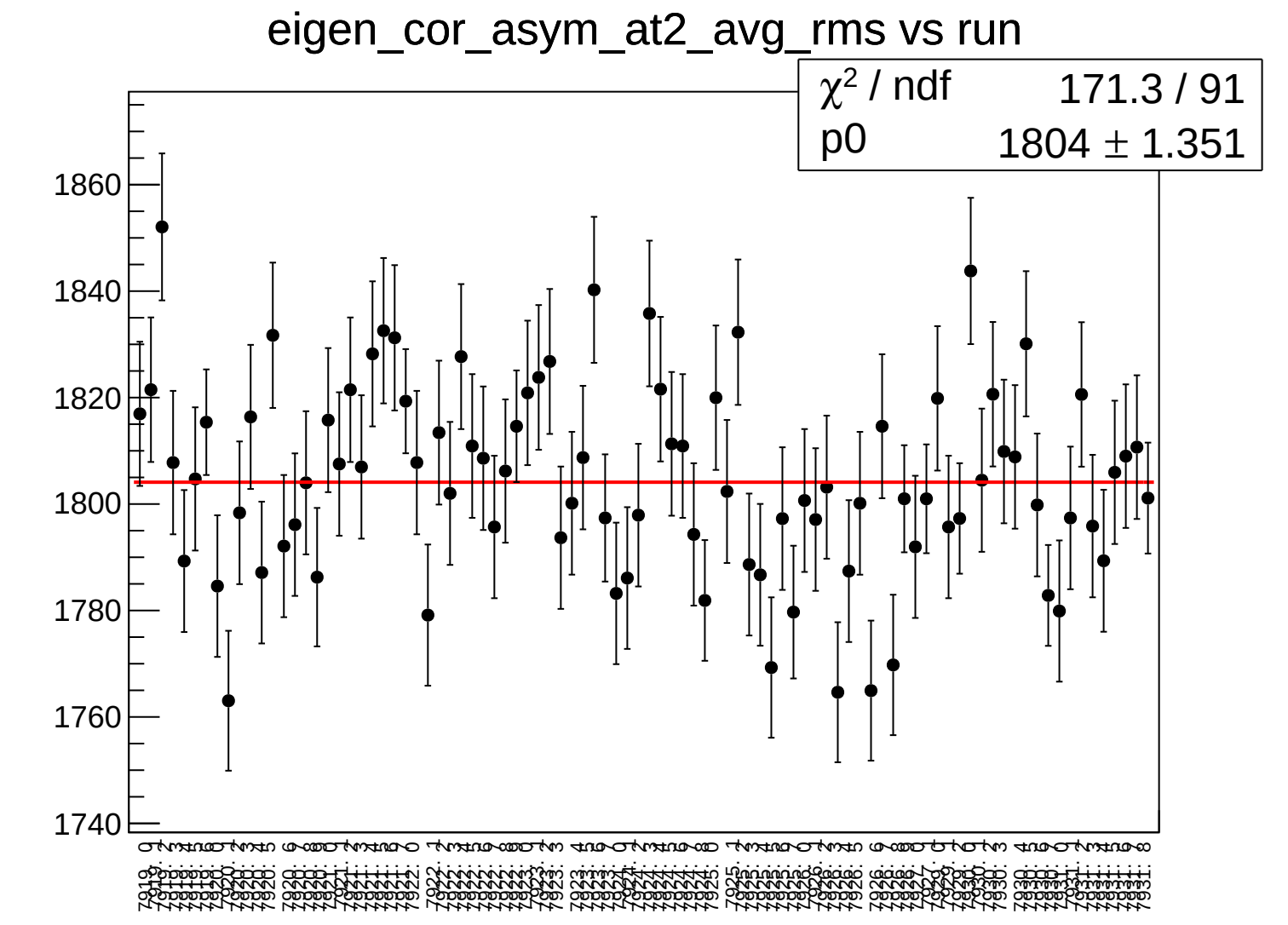

asym_at2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 98.22 / 91
p0 1.572e+04 ± 1.197e+04
400
200
0
−200
−400
pull
Entries 92
Mean −284.1
Std Dev 0
2
1
0
−1
−2
−3

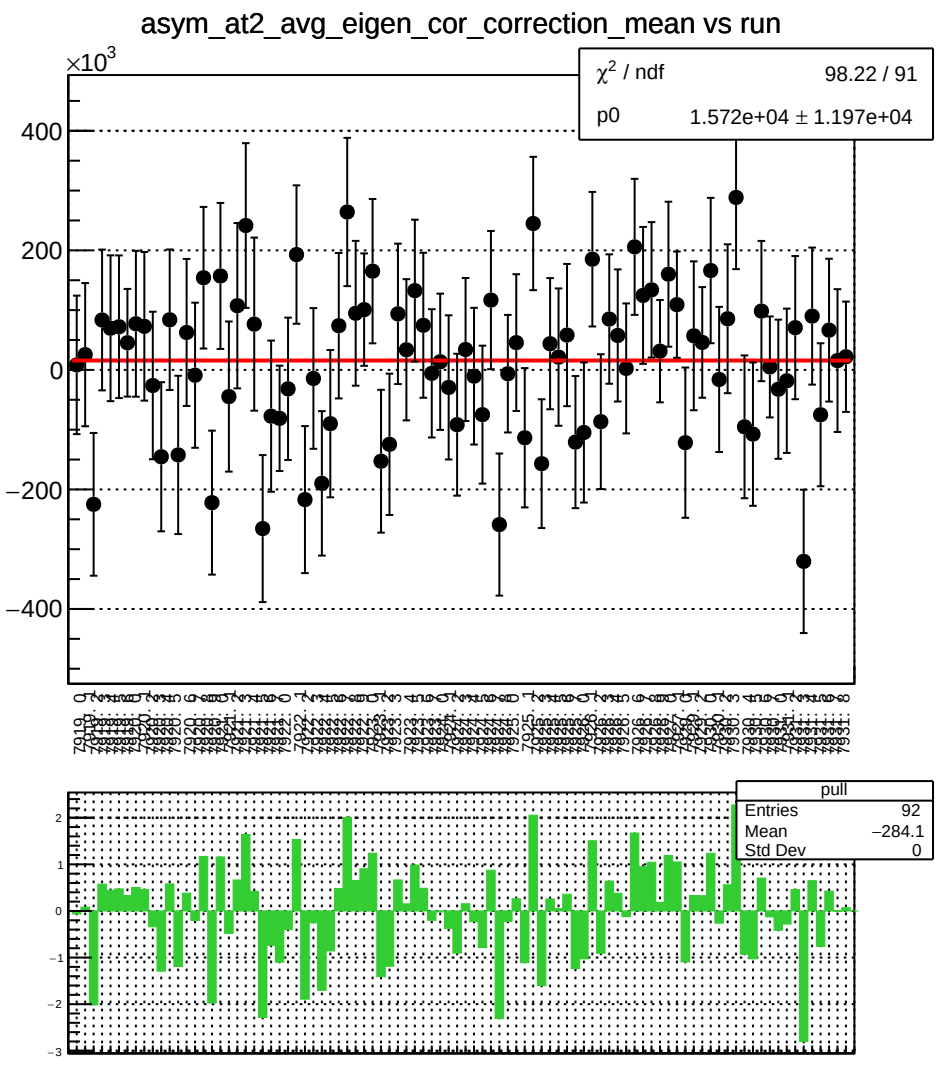

pull1D
Entries 92
Mean −0.00531
Std Dev 1.033
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

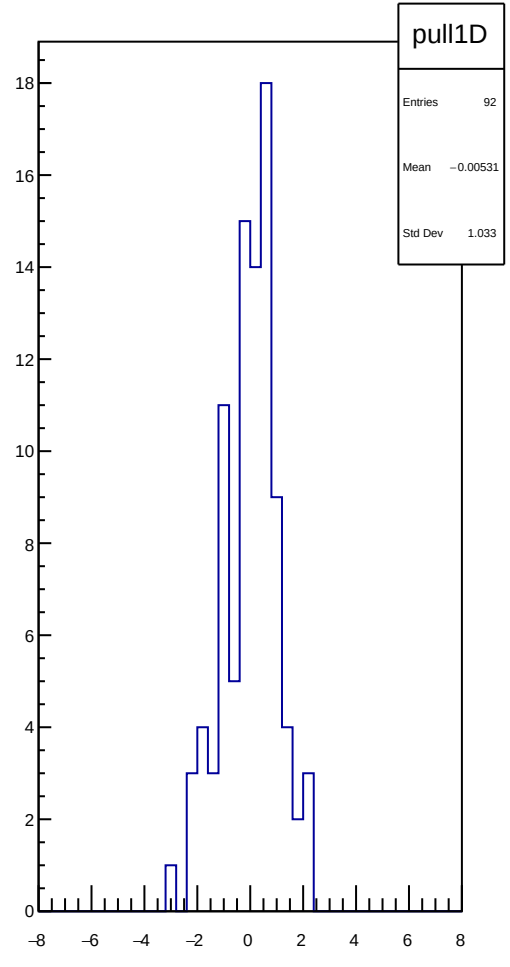

asym_at2_avg_cor_correction_rms vs run
χ² / ndf 3487 / 91
p0 1.129e+04 ± 8.467
14000
13500
13000
12500
12000
11500
11000
10500
10000

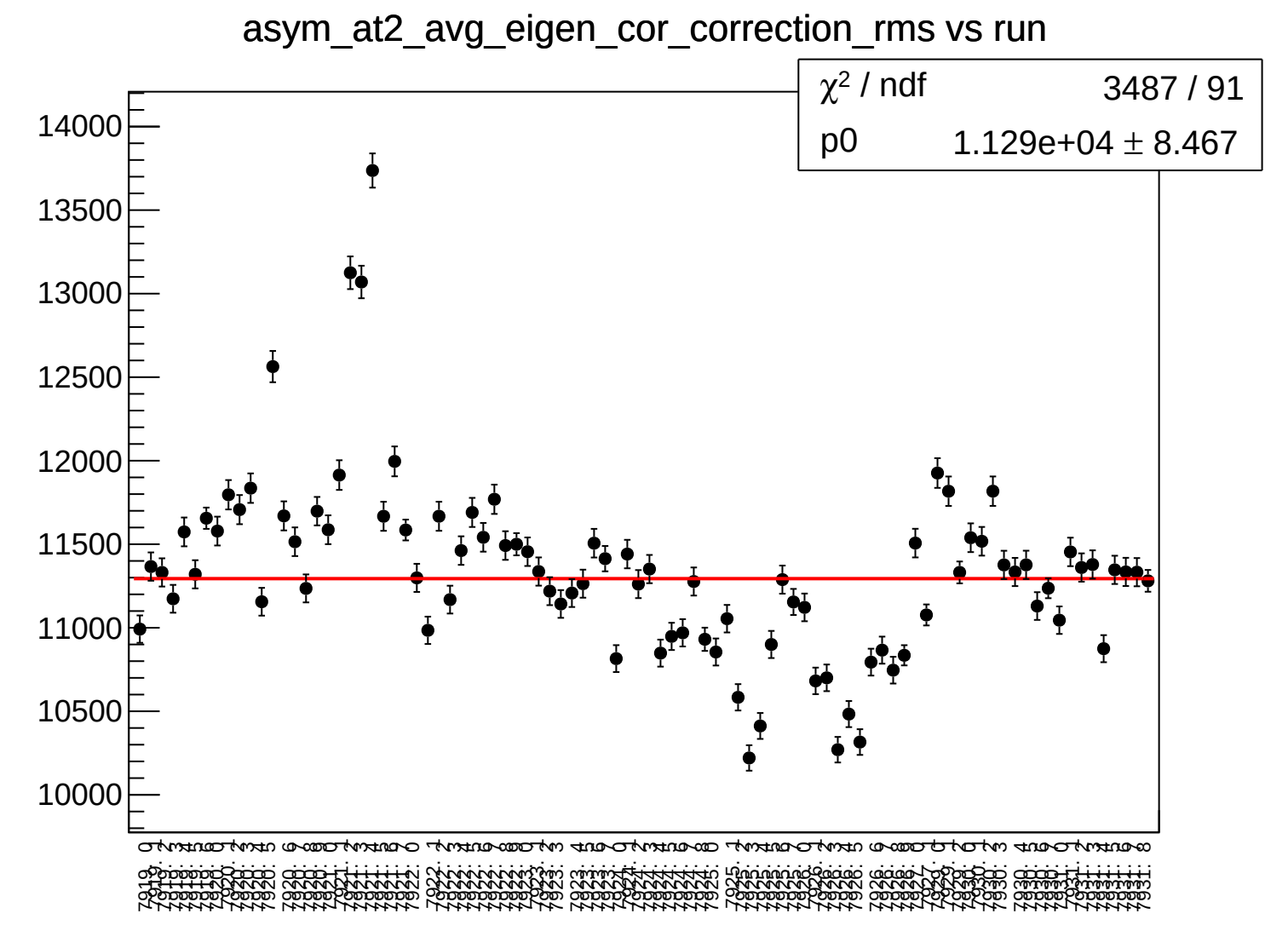

eigen_cor_asym_at2_avg_mean vs run
χ² / ndf 92.13 / 91
p0 2344 ± 1911
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean 468.8
Std Dev 0
2
1
0
−1
−2

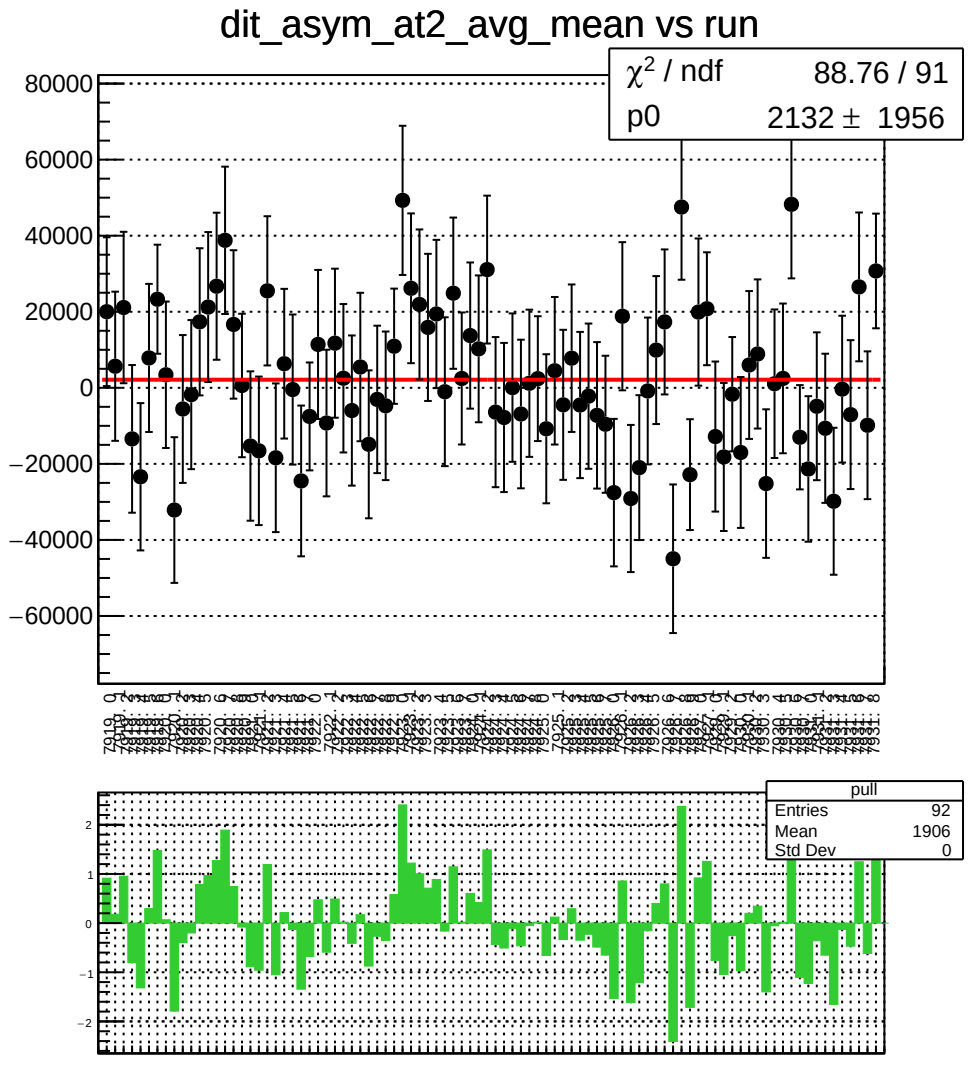

pull1D
Entries 92
Mean −0.006211
Std Dev 1.001
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

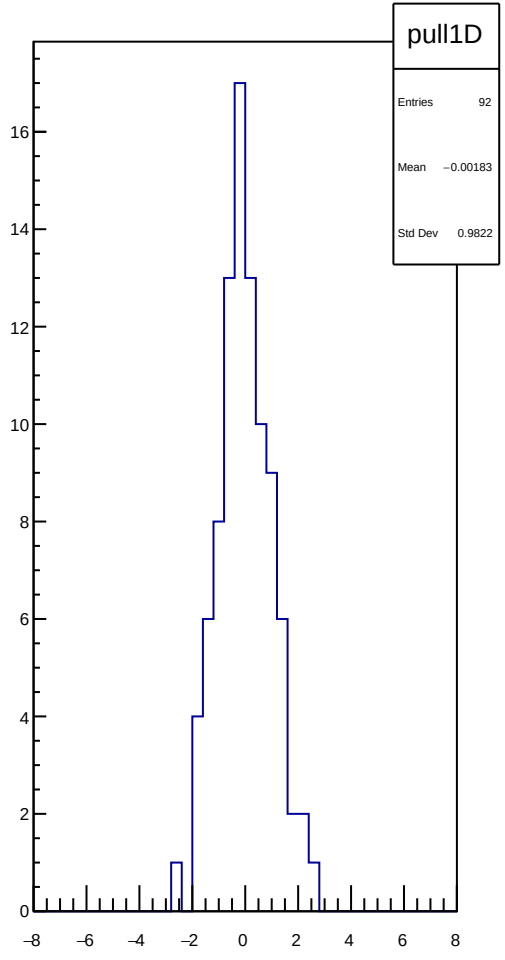

eigen_cor_asym_at2_avg_rms vs run
χ² / ndf 171.3 / 91
p0 1804 ± 1.351
1860
1840
1820
1800
1780
1760
1740

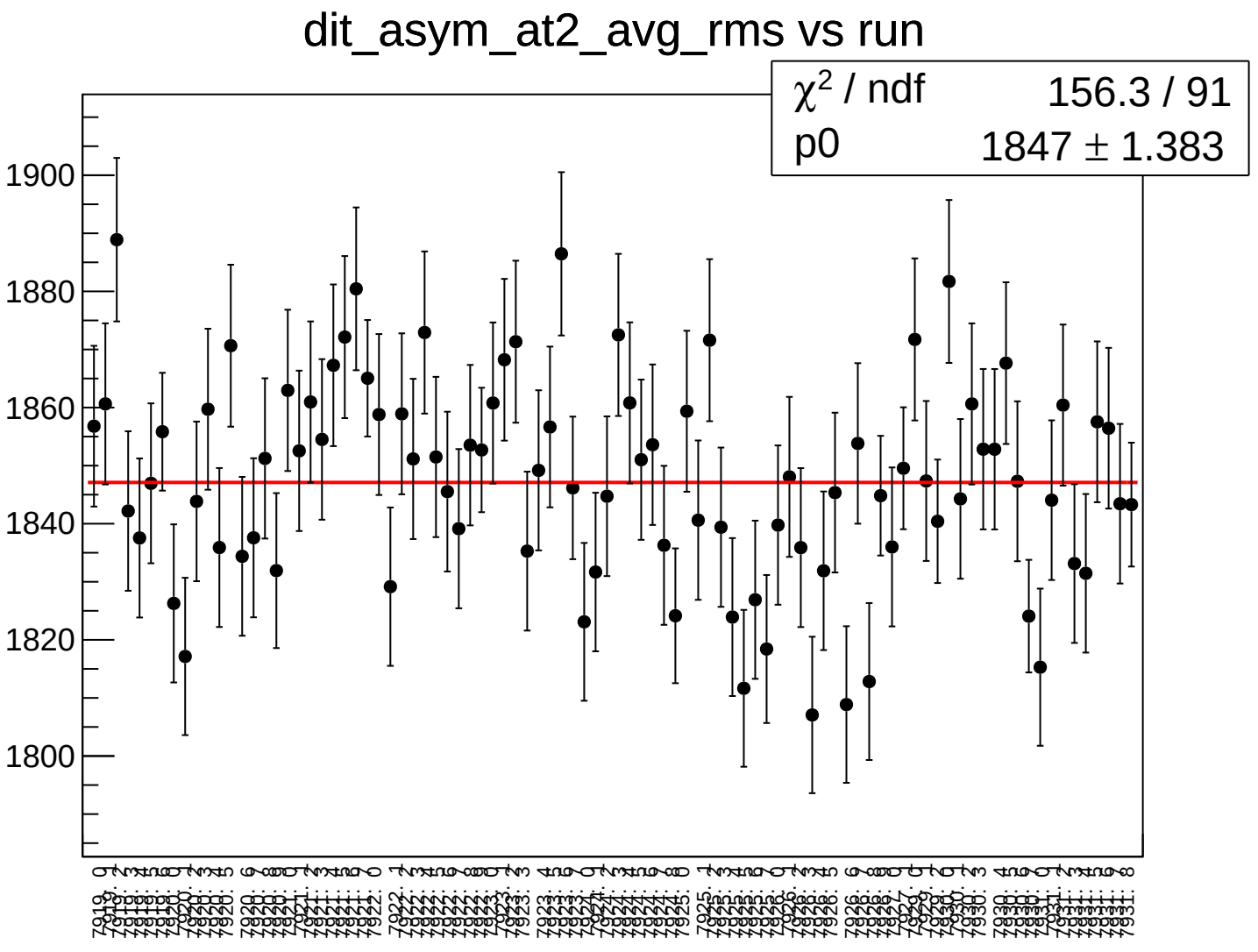

asym_at2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 98.22 / 91
p0 1.572e+04 ± 1.197e+04
400
200
0
−200
−400
pull
Entries 92
Mean −284.1
Std Dev 0
2
1
0
−1
−2
−3

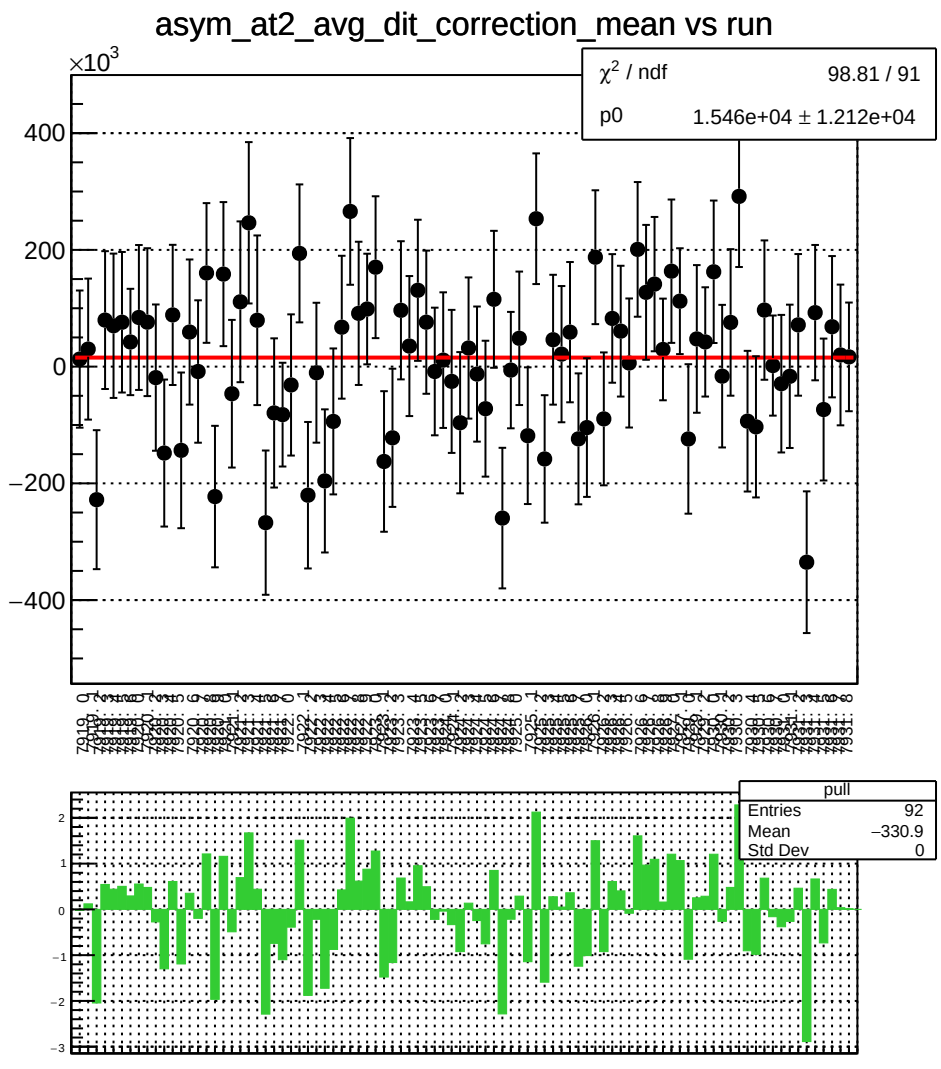

pull1D
Entries 92
Mean −0.00531
Std Dev 1.033
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

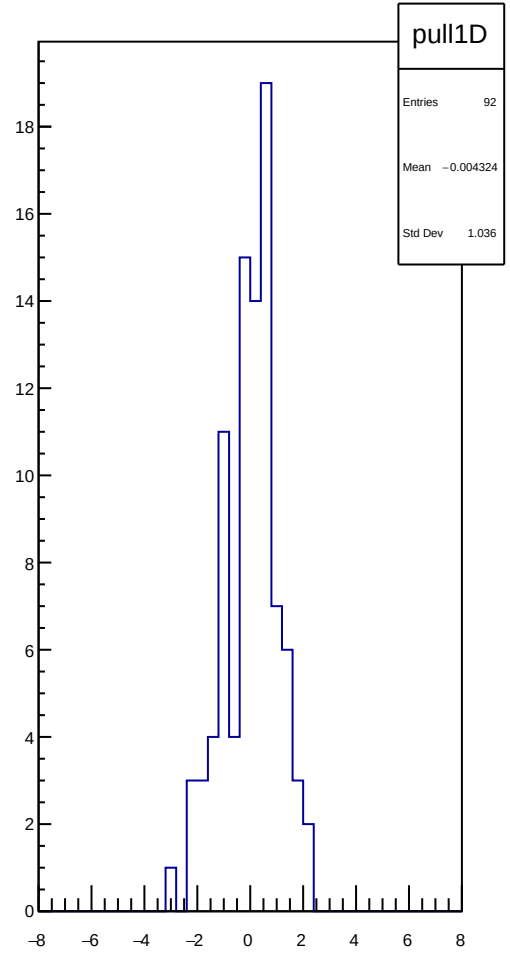

asym_at2_avg_eigen_cor_correction_rms vs run
χ² / ndf 3487 / 91
p0 1.129e+04 ± 8.467
14000
13500
13000
12500
12000
11500
11000
10500
10000

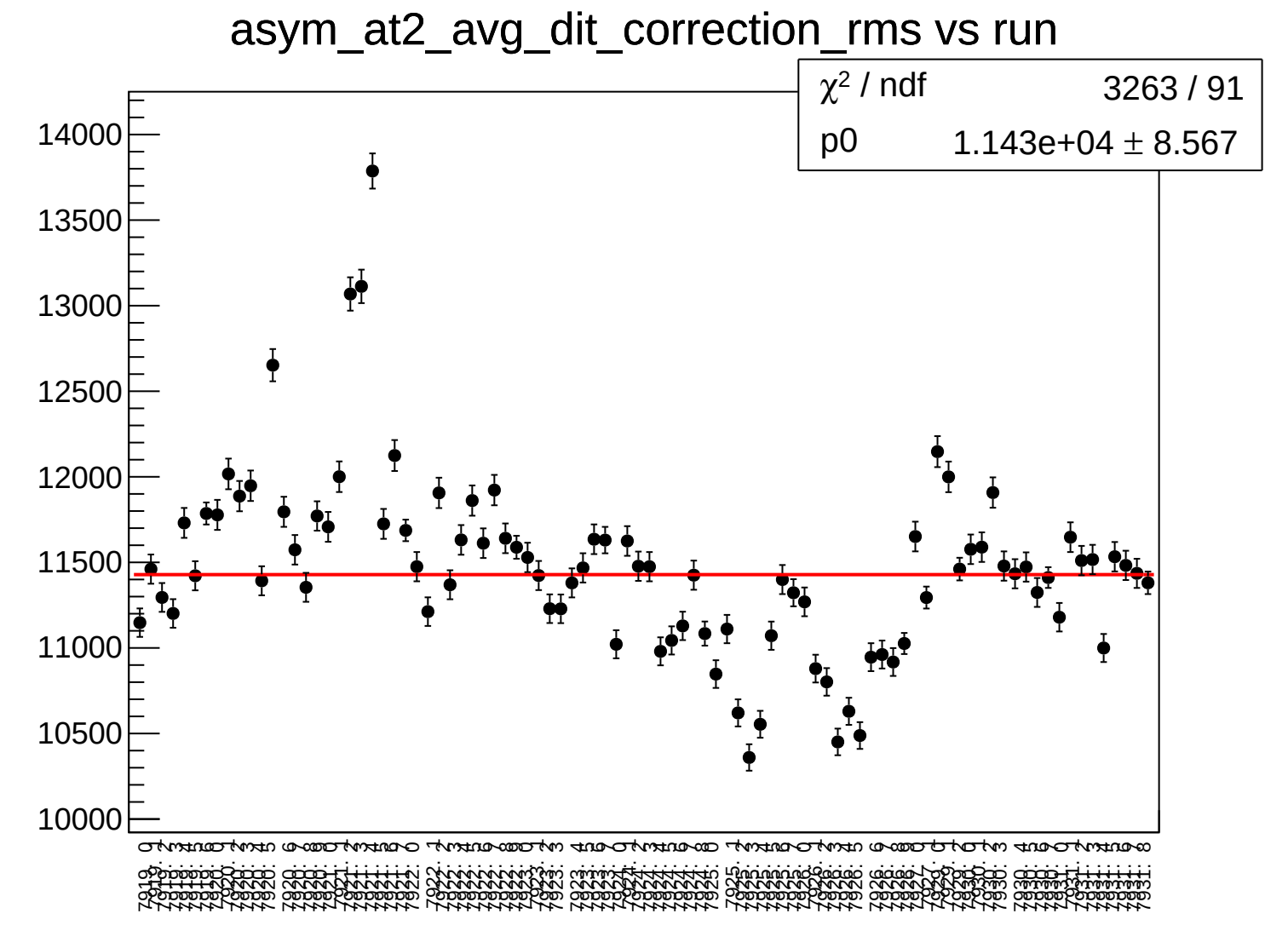

dit_asym_at2_avg_mean vs run
χ² / ndf 88.76 / 91
p0 2132 ± 1956
pull
Entries 92
Mean 1906
Std Dev 0

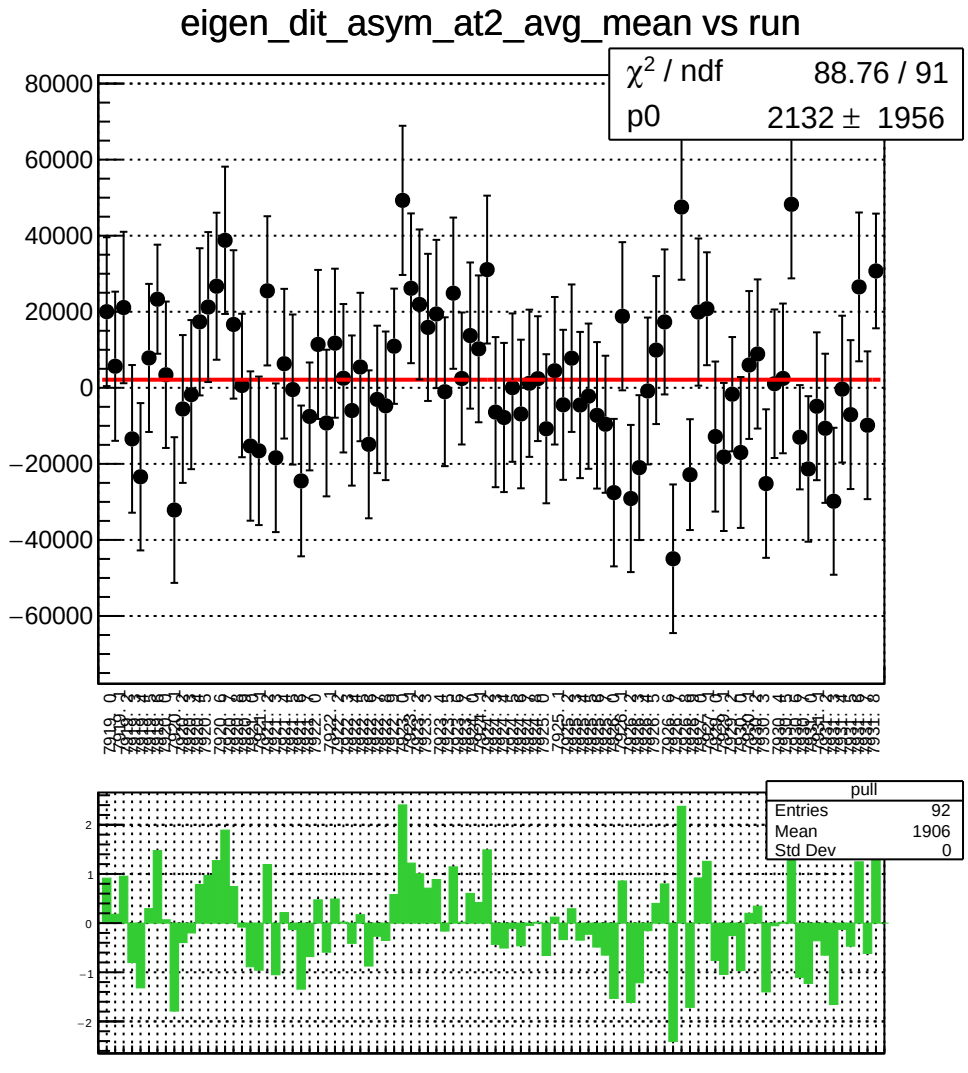

pull1D
Entries 92
Mean −0.00183
Std Dev 0.9822

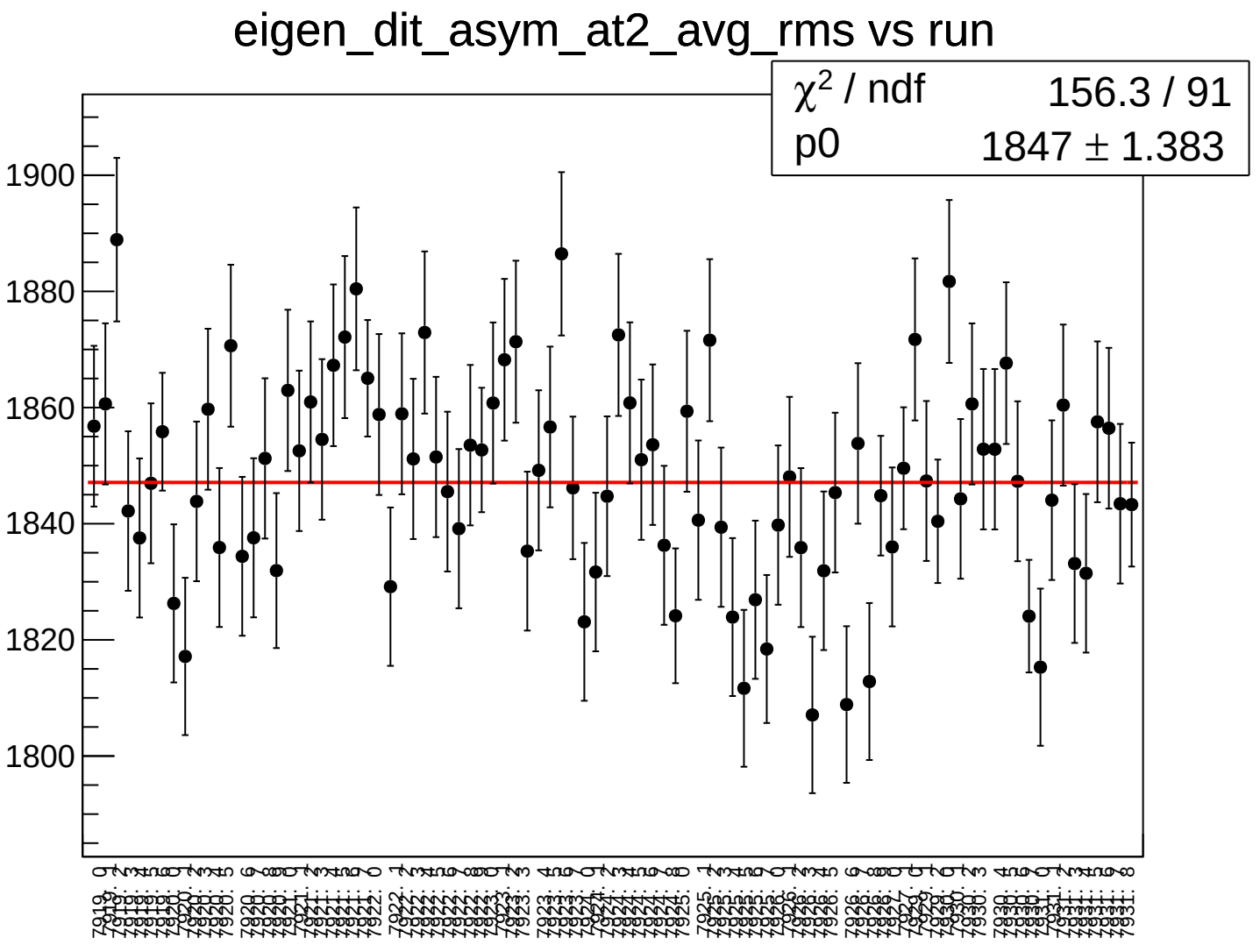

dit_asym_at2_avg_rms vs run
χ² / ndf 156.3 / 91
p0 1847 ± 1.383
1900
1880
1860
1840
1820
1800

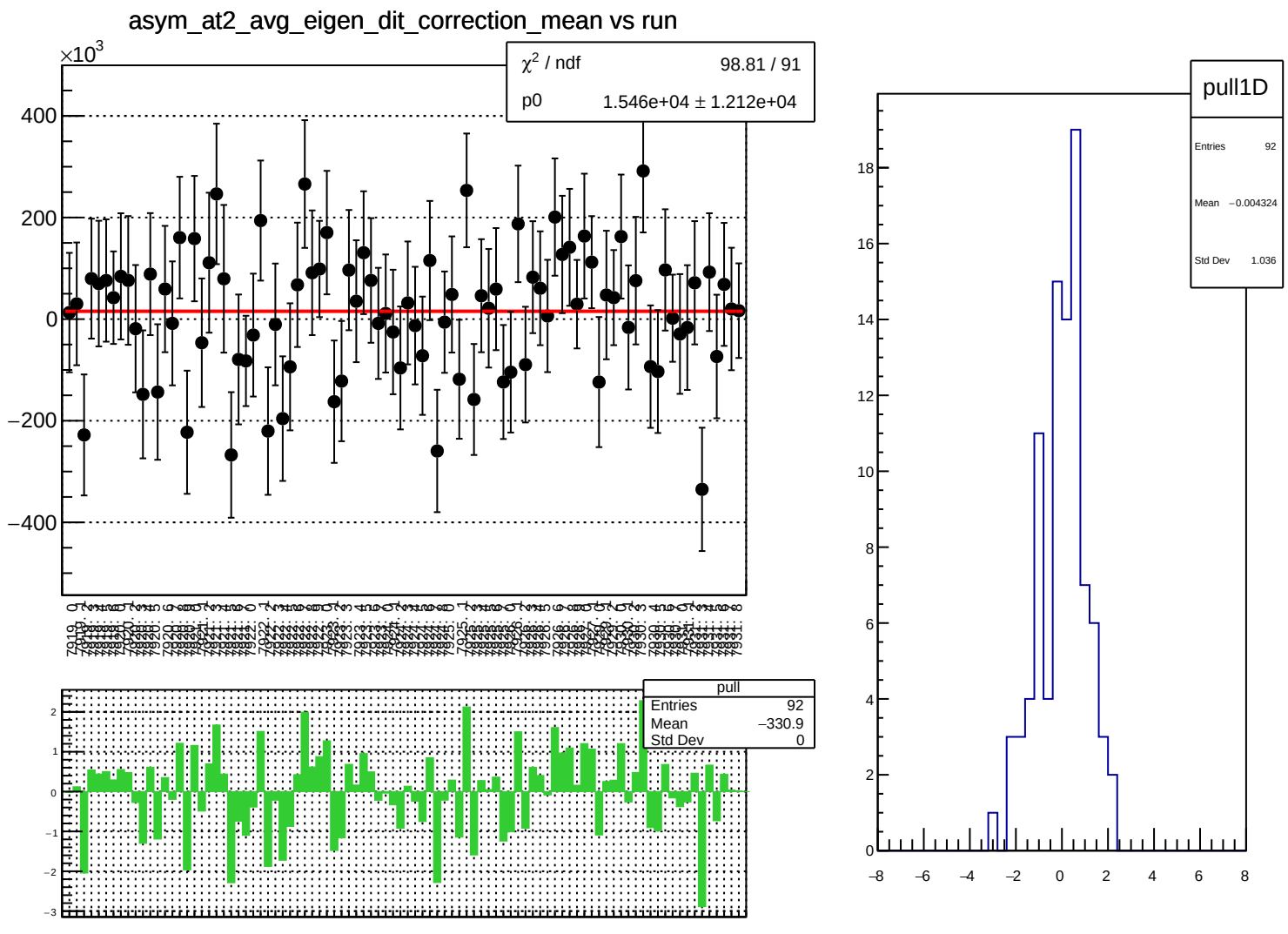

asym_at2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 98.81 / 91
p0 1.546e+04 ± 1.212e+04
400
200
0
−200
−400
pull
Entries 92
Mean −330.9
Std Dev 0
2
1
0
−1
−2
−3

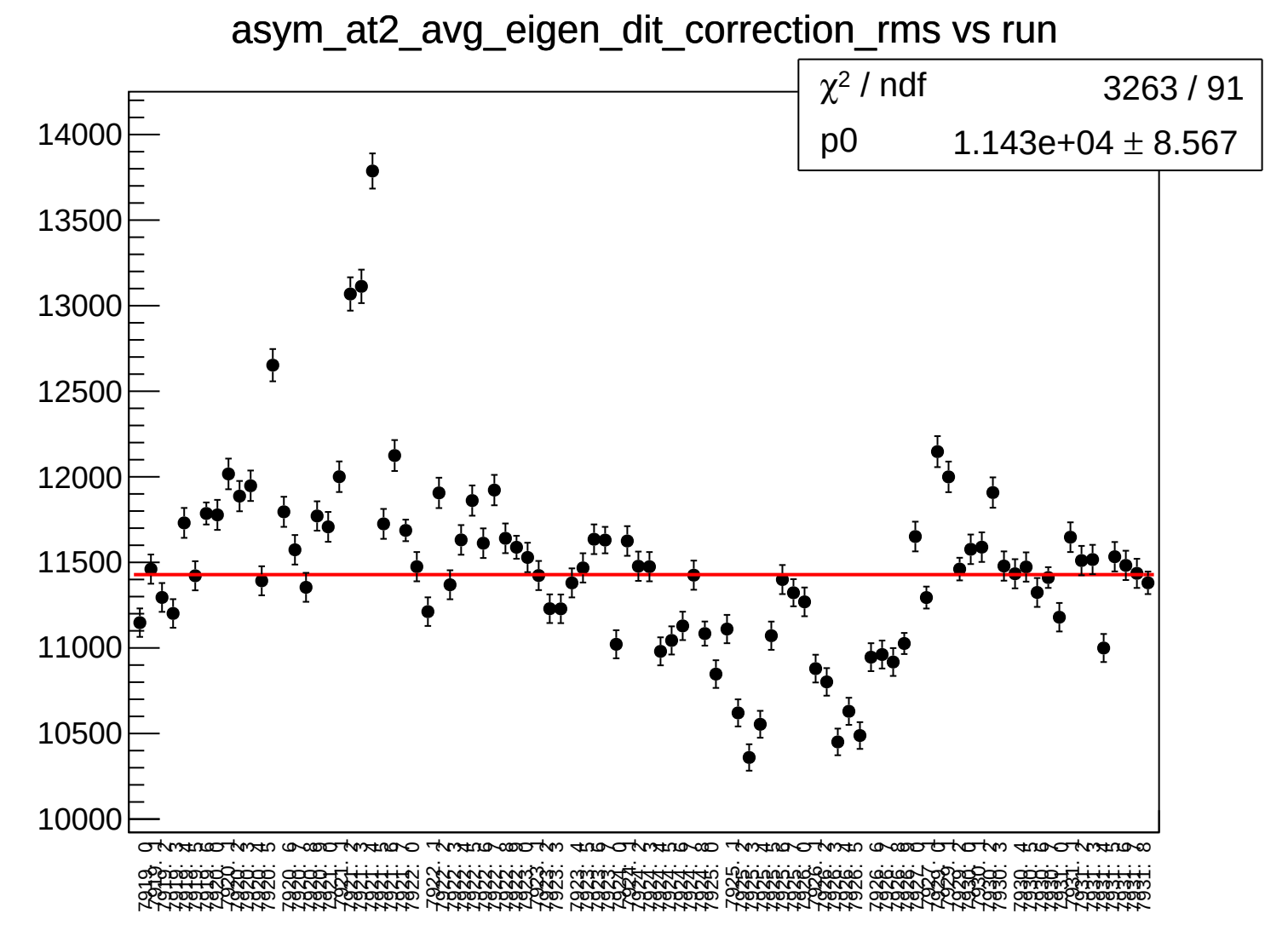

pull1D
Entries 92
Mean −0.004324
Std Dev 1.036
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

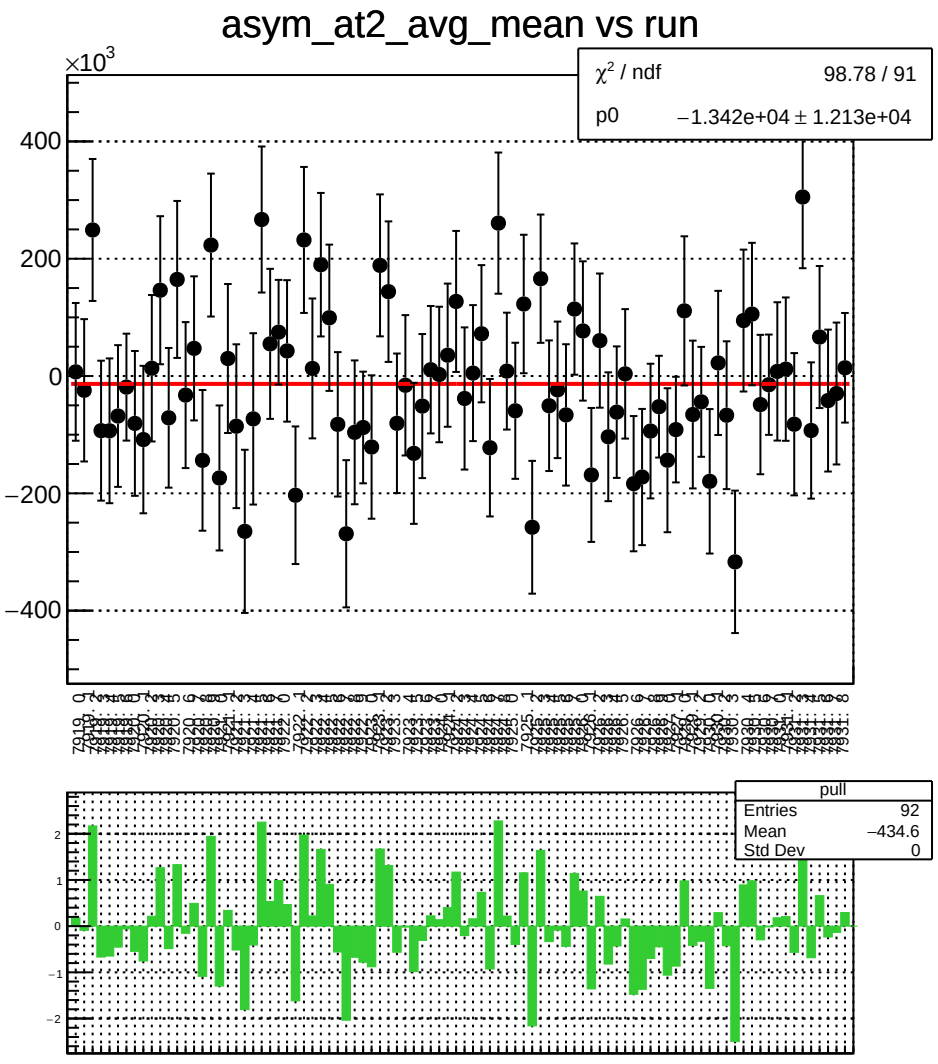

asym_at2_avg_dit_correction_rms vs run
χ² / ndf 3263 / 91
p0 1.143e+04 ± 8.567
14000
13500
13000
12500
12000
11500
11000
10500
10000

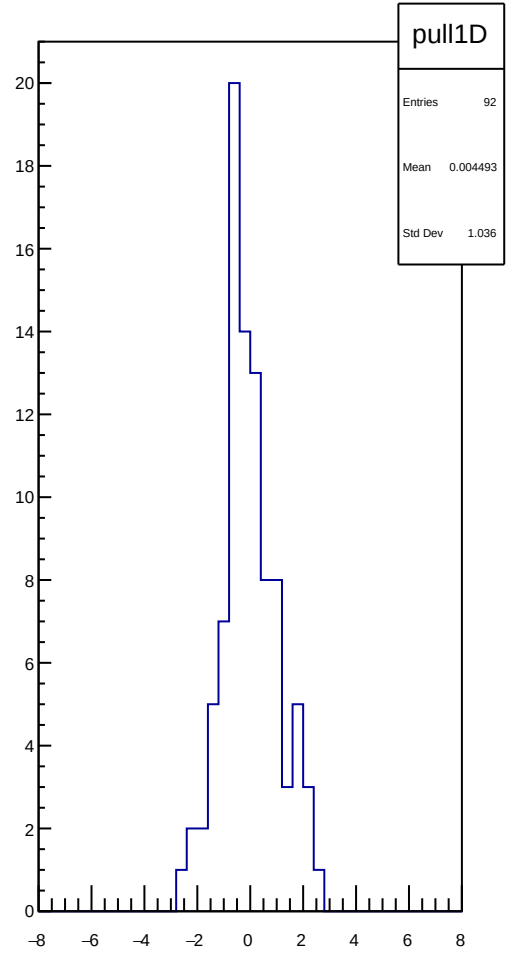

eigen_dit_asym_at2_avg_mean vs run
χ² / ndf 88.76 / 91
p0 2132 ± 1956
pull
Entries 92
Mean 1906
Std Dev 0
pull1D
Entries 92
Mean −0.00183
Std Dev 0.9822

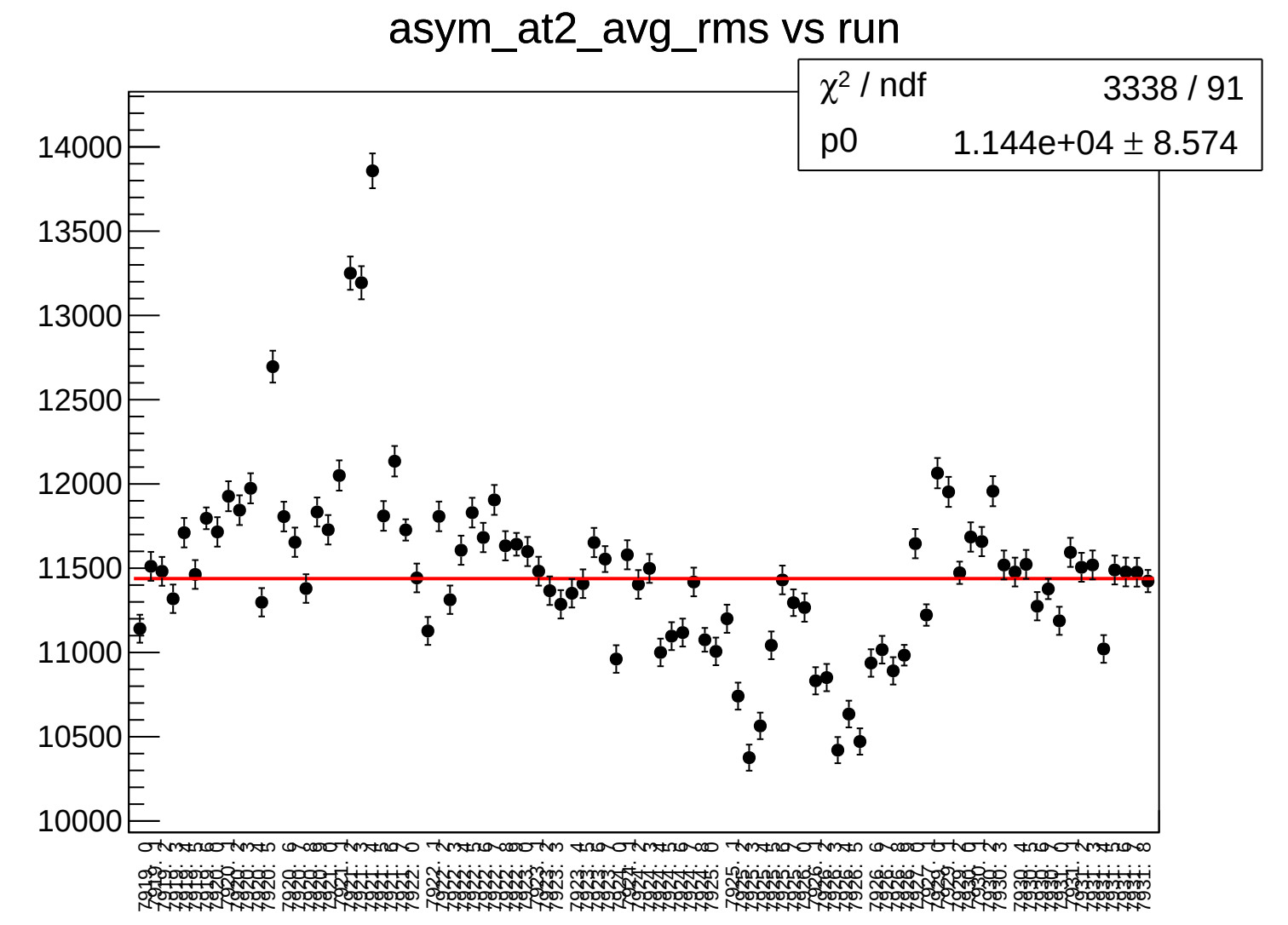

eigen_dit_asym_at2_avg_rms vs run
χ² / ndf 156.3 / 91
p0 1847 ± 1.383
1900
1880
1860
1840
1820
1800

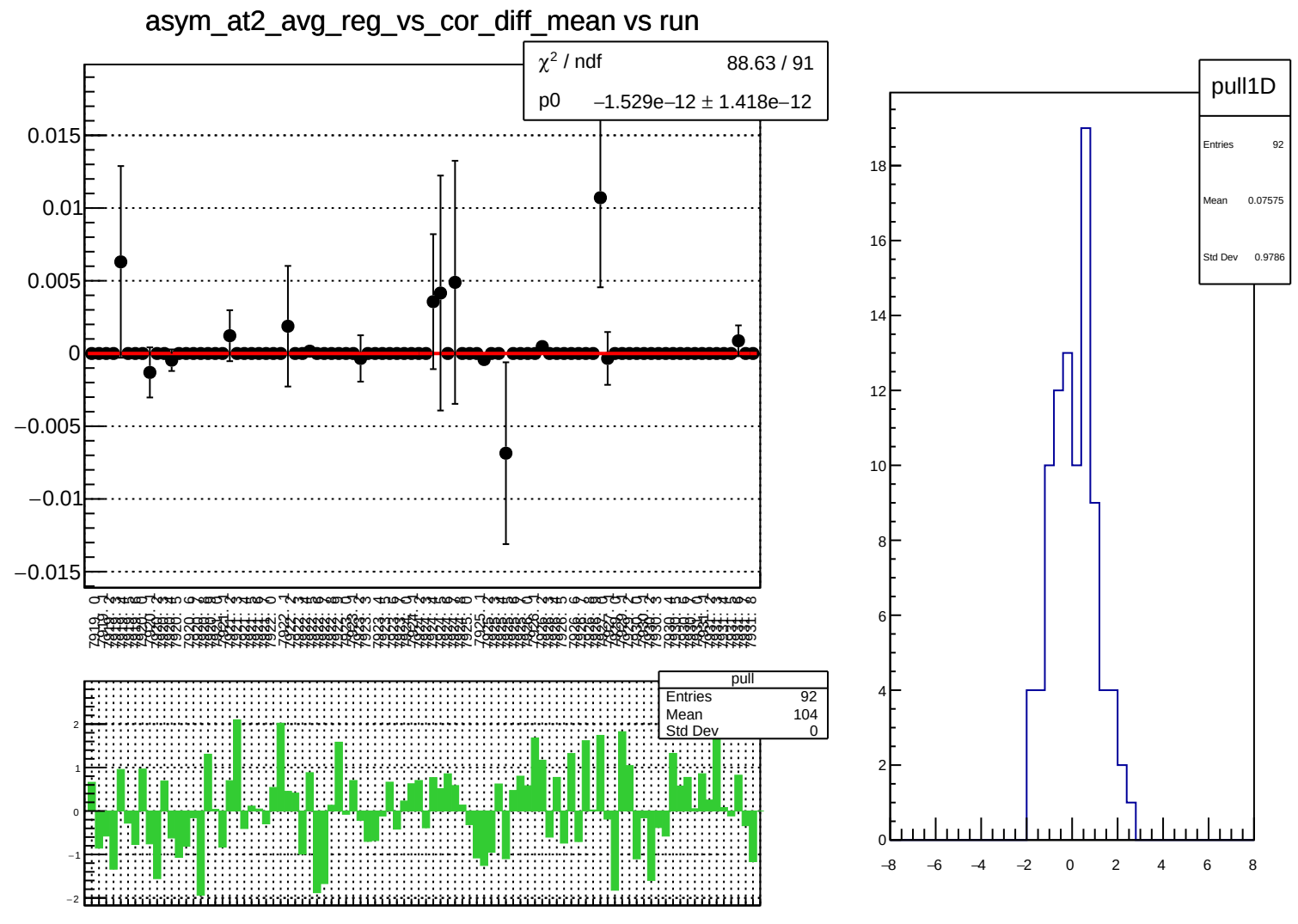

asym_at2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 98.81 / 91
p0 1.546e+04 ± 1.212e+04
400
200
0
−200
−400
pull
Entries 92
Mean −330.9
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.004324
Std Dev 1.036
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

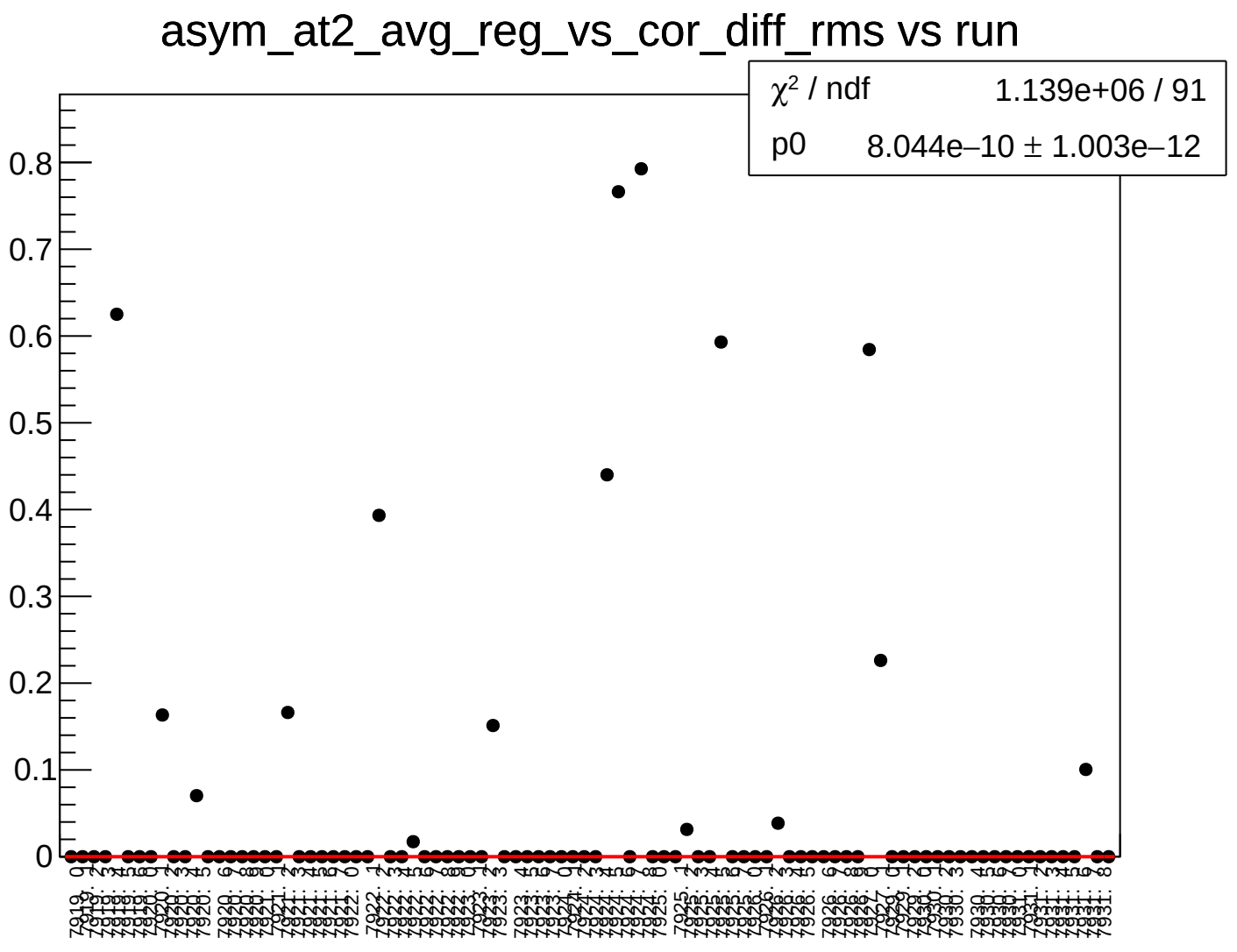

asym_at2_avg_eigen_dit_correction_rms vs run
χ² / ndf 3263 / 91
p0 1.143e+04 ± 8.567
14000
13500
13000
12500
12000
11500
11000
10500
10000

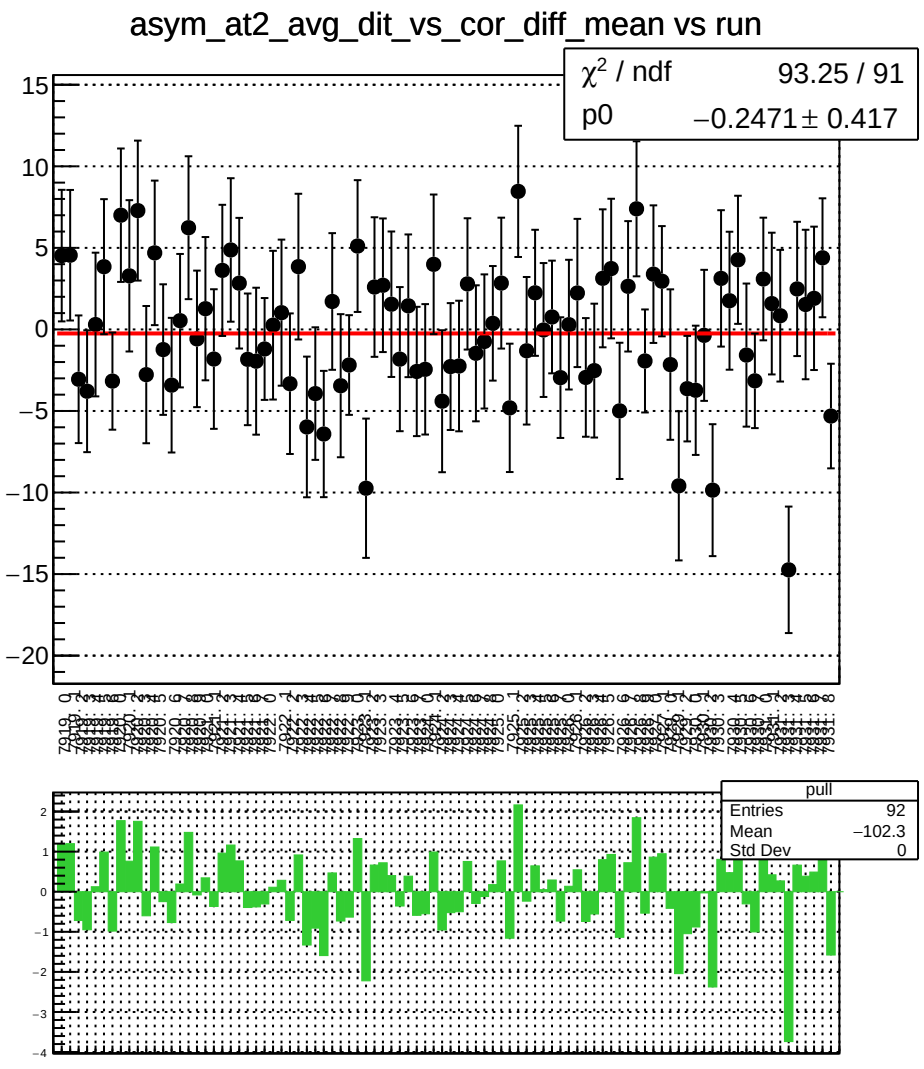

asym_at2_avg_mean vs run
×10^3
χ² / ndf 98.78 / 91
p0 −1.342e+04 ± 1.213e+04
400
200
0
−200
−400
pull
Entries 92
Mean −434.6
Std Dev 0
2
1
0
−1
−2

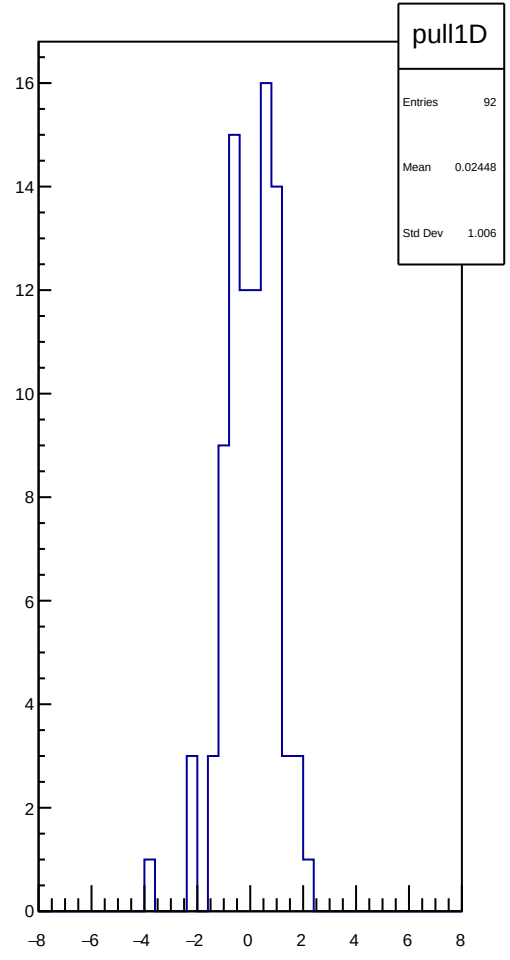

pull1D
Entries 92
Mean 0.004493
Std Dev 1.036
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

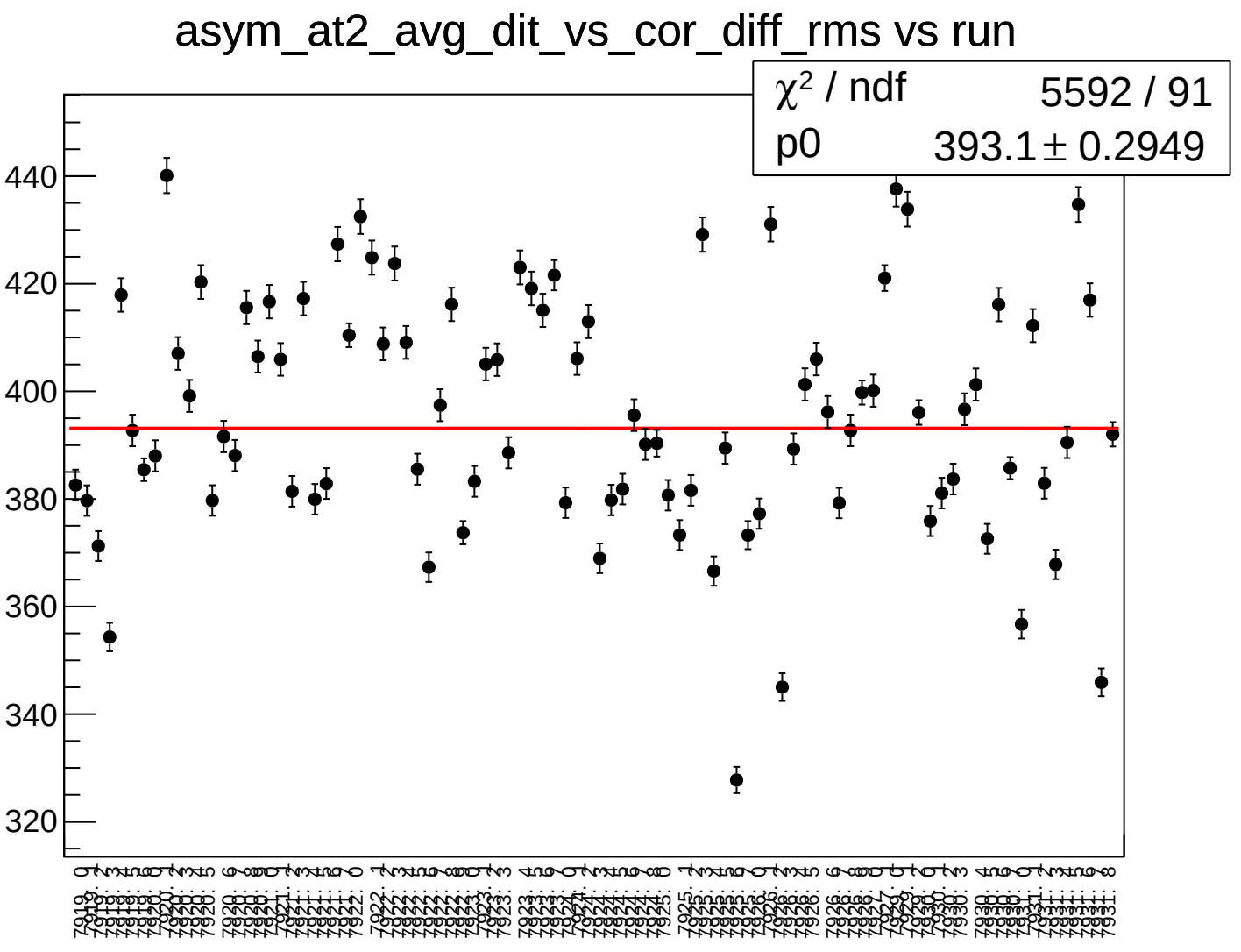

asym_at2_avg_rms vs run
χ^2 / ndf 3338 / 91
p0 1.144e+04 ± 8.574
14000
13500
13000
12500
12000
11500
11000
10500
10000

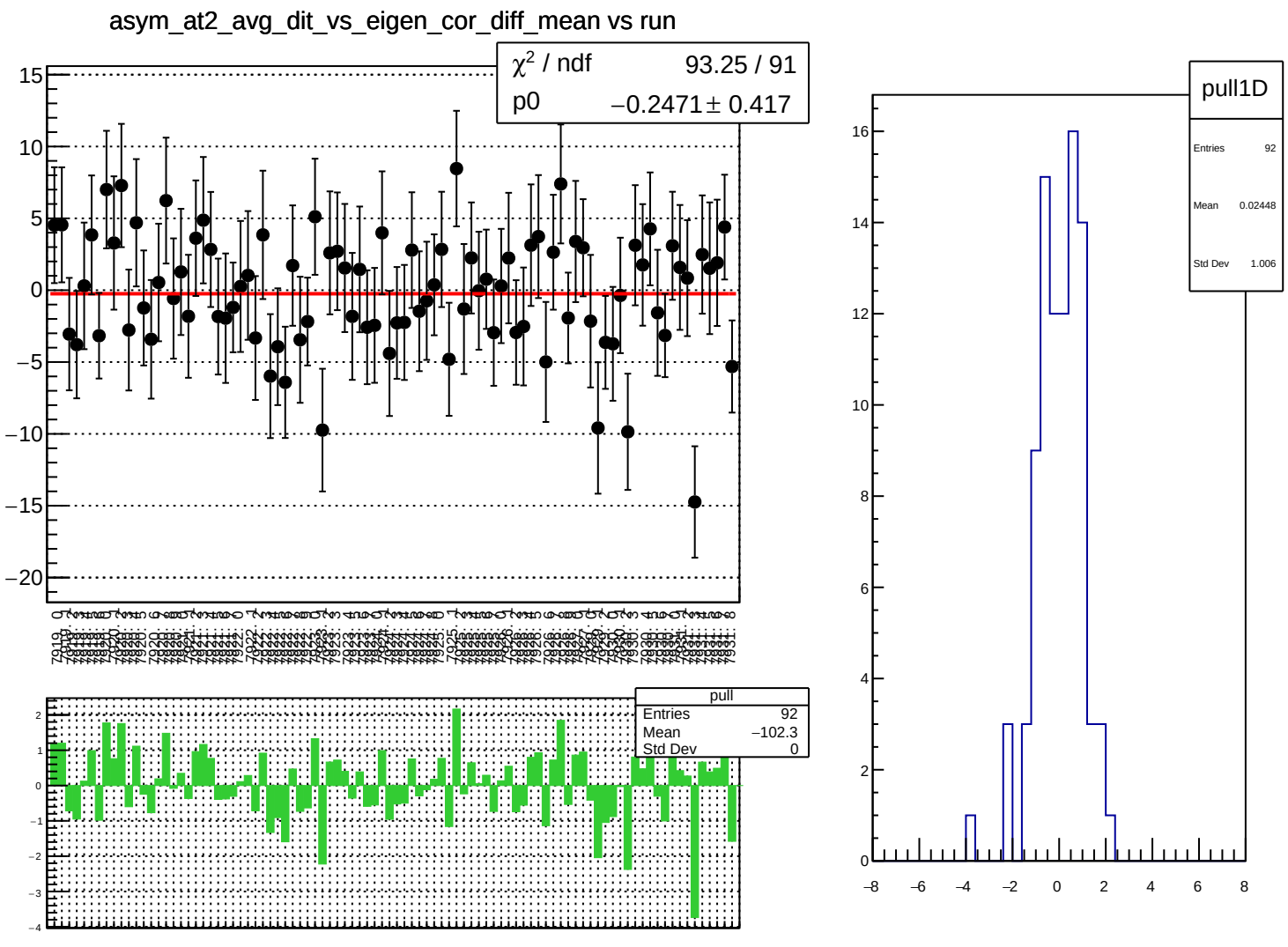

asym_at2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 88.63 / 91
p0 −1.529e−12 ± 1.418e−12
pull
Entries 92
Mean 104
Std Dev 0
pull1D
Entries 92
Mean 0.07575
Std Dev 0.9786

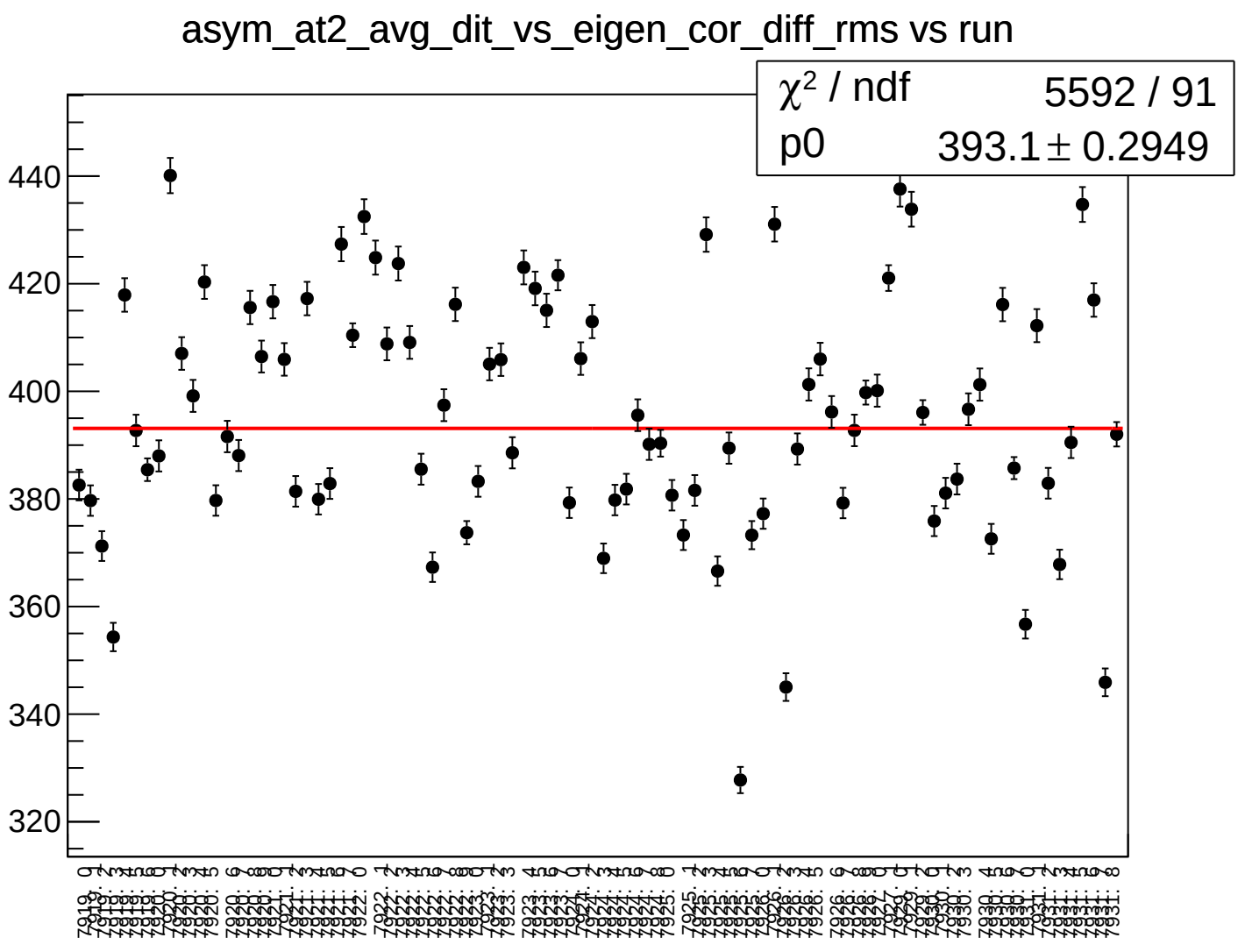

asym_at2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.139e+06 / 91
p0 8.044e−10 ± 1.003e−12
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

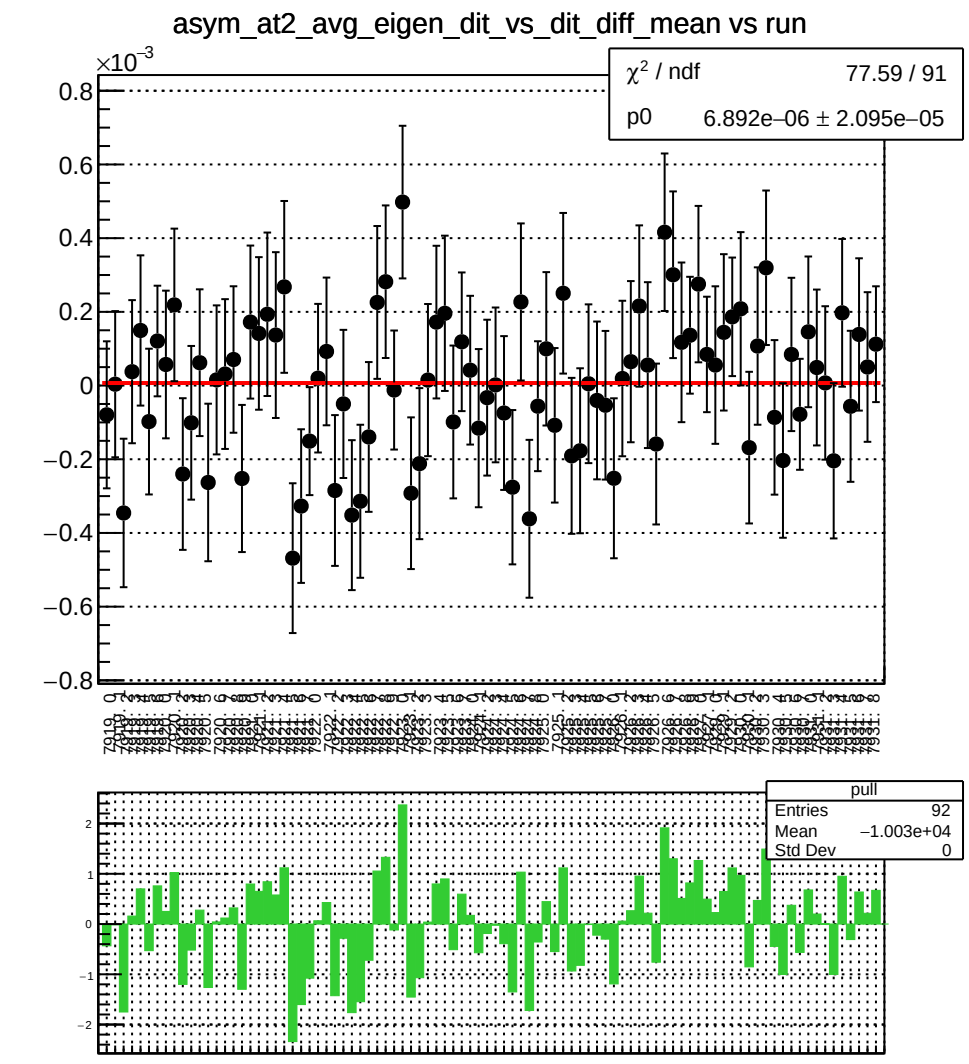

asym_at2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 93.25 / 91
p0 −0.2471 ± 0.417
pull
Entries 92
Mean −102.3
Std Dev 0

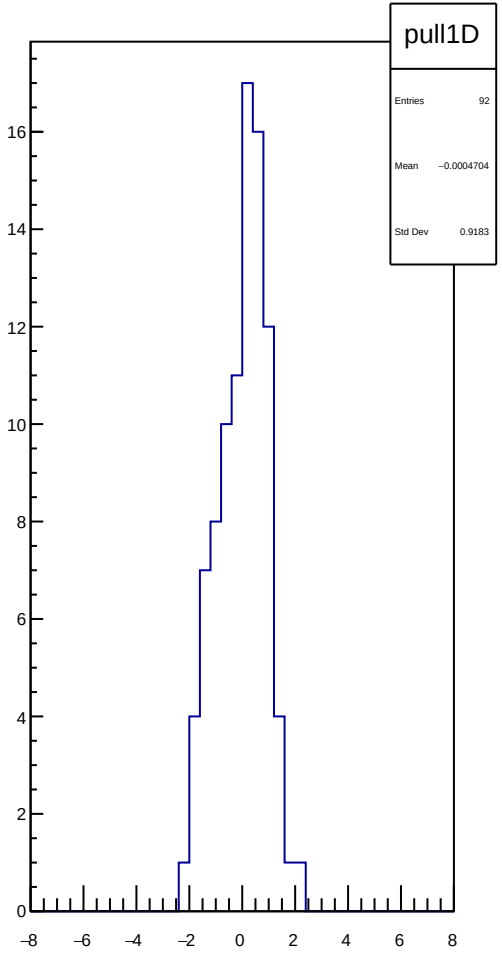

pull1D
Entries 92
Mean 0.02448
Std Dev 1.006

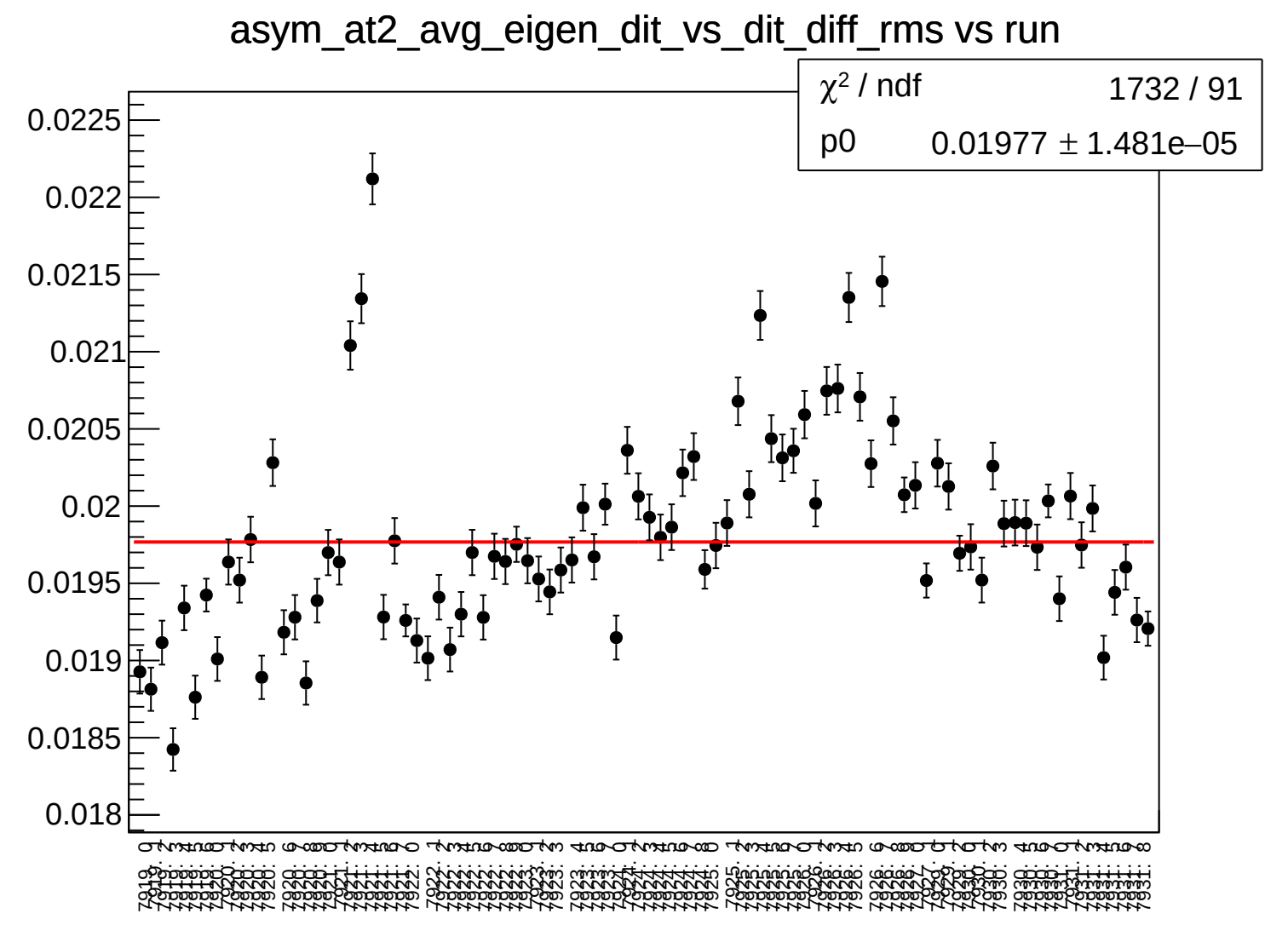

asym_at2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5592 / 91
p0 393.1 ± 0.2949
440
420
400
380
360
340
320

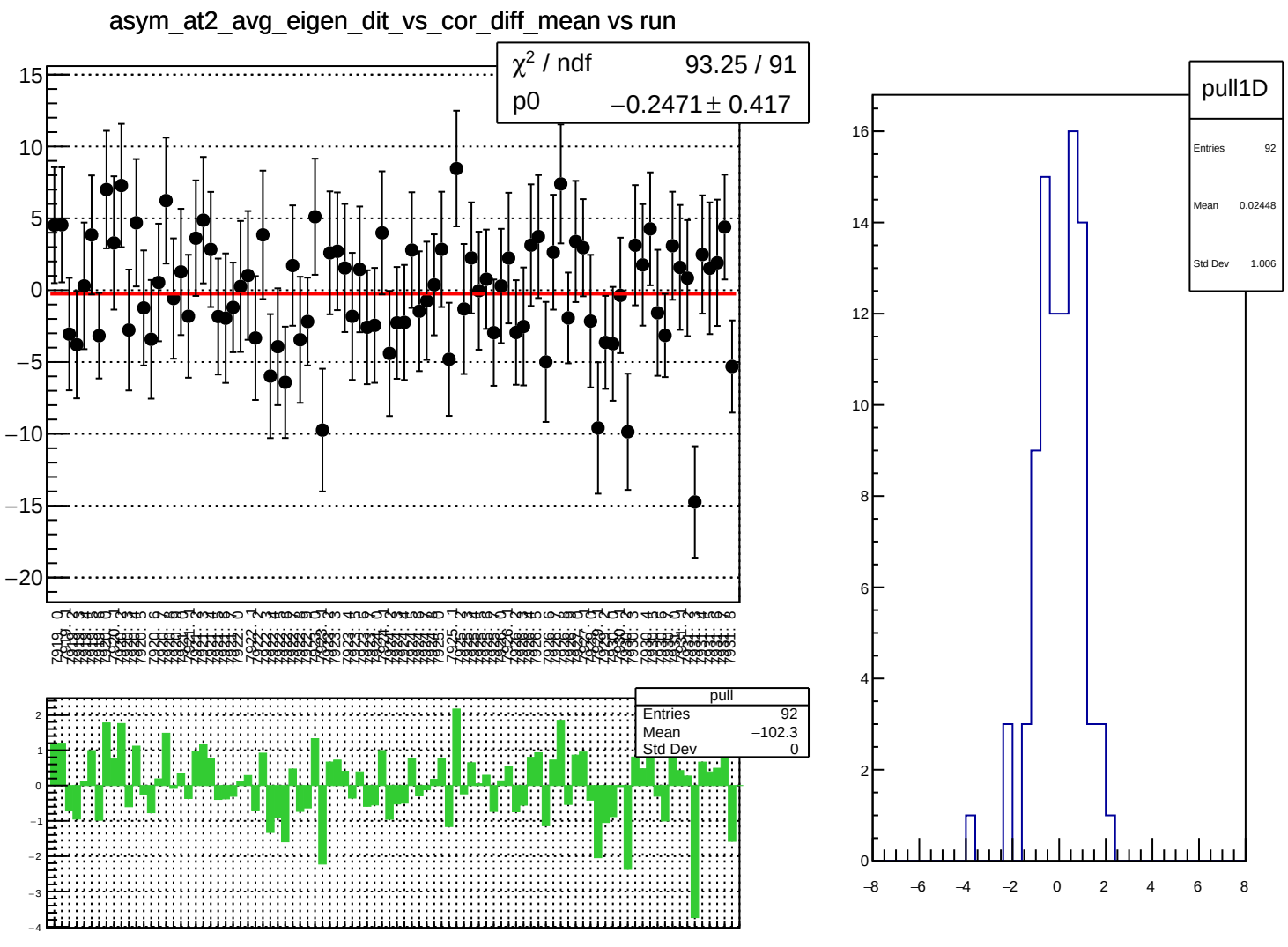

asym_at2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.25 / 91
p0 −0.2471 ± 0.417
pull
Entries 92
Mean −102.3
Std Dev 0
pull1D
Entries 92
Mean 0.02448
Std Dev 1.006

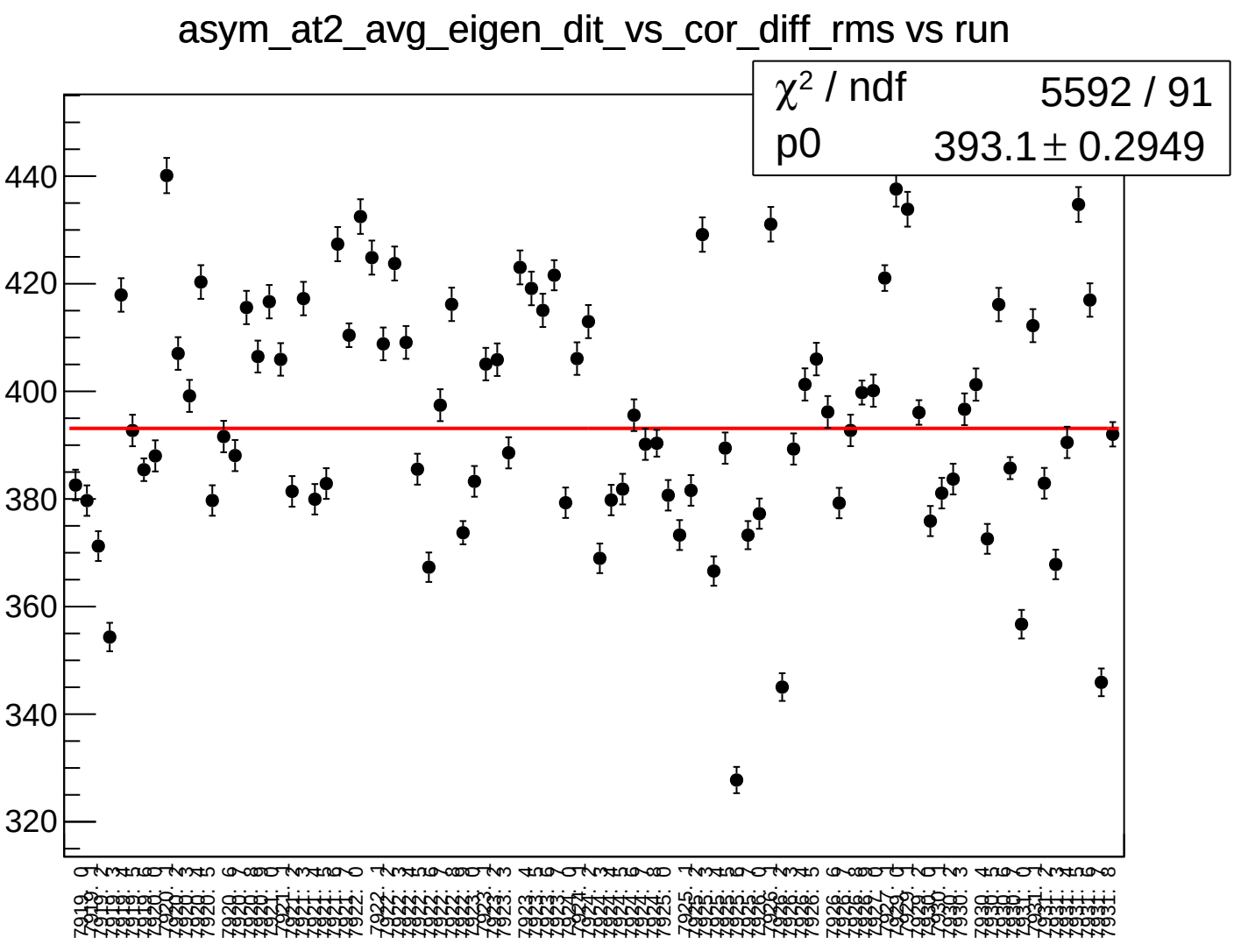

asym_at2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5592 / 91
p0 393.1 ± 0.2949
440
420
400
380
360
340
320

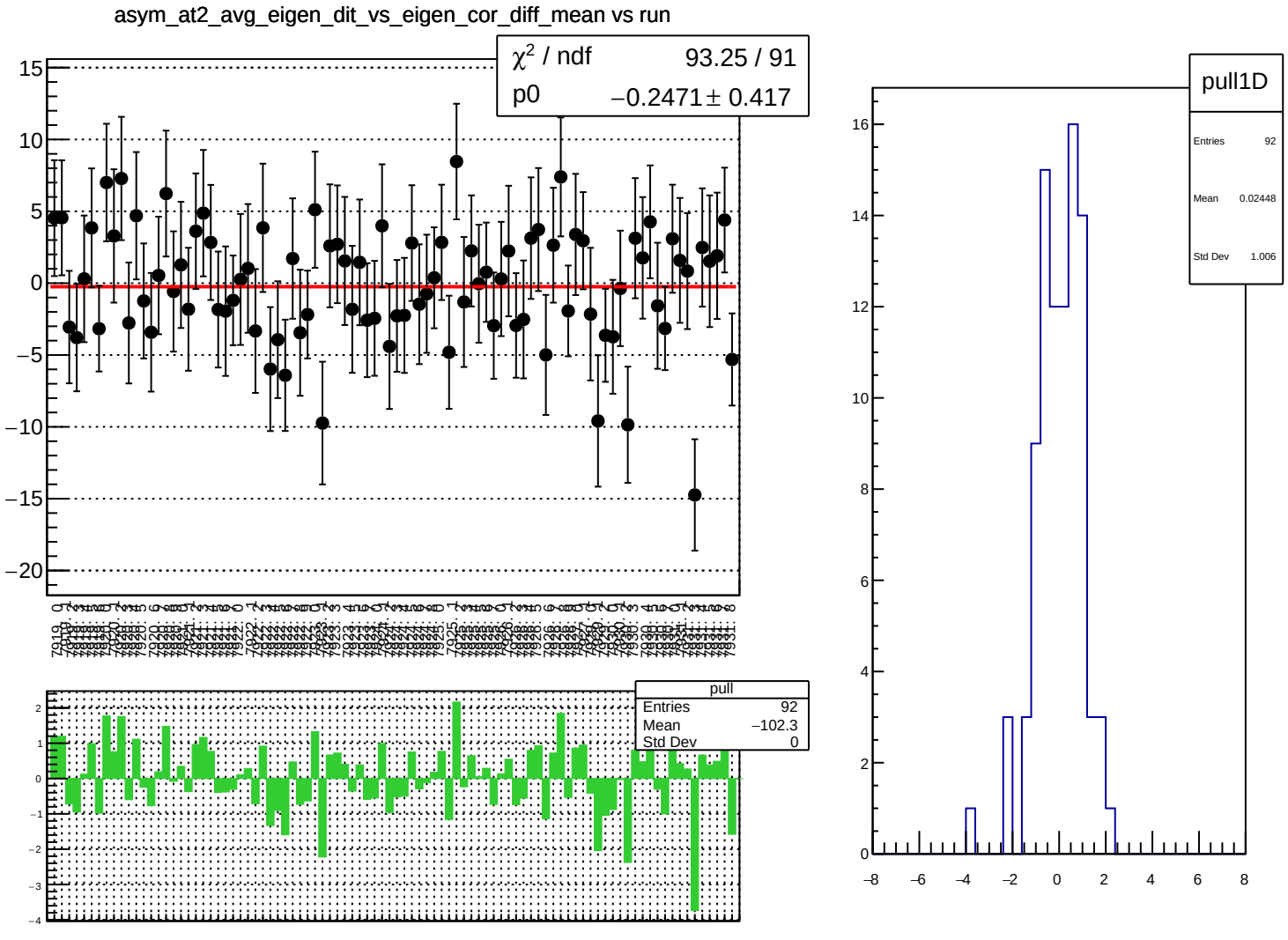

asym_at2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 77.59 / 91
p0 6.892e−06 ± 2.095e−05
pull
Entries 92
Mean −1.003e+04
Std Dev 0

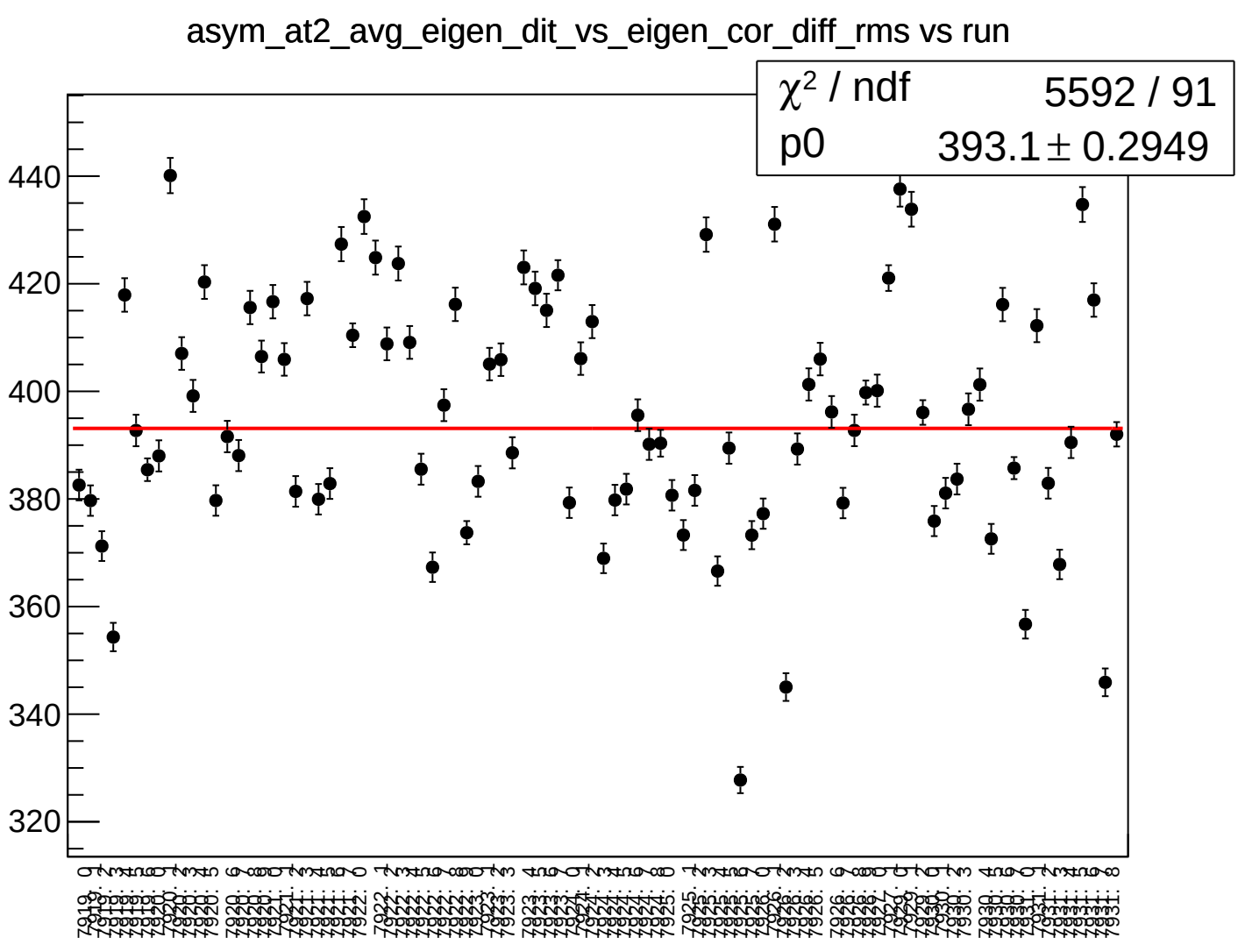

pull1D
Entries 92
Mean −0.0004704
Std Dev 0.9183

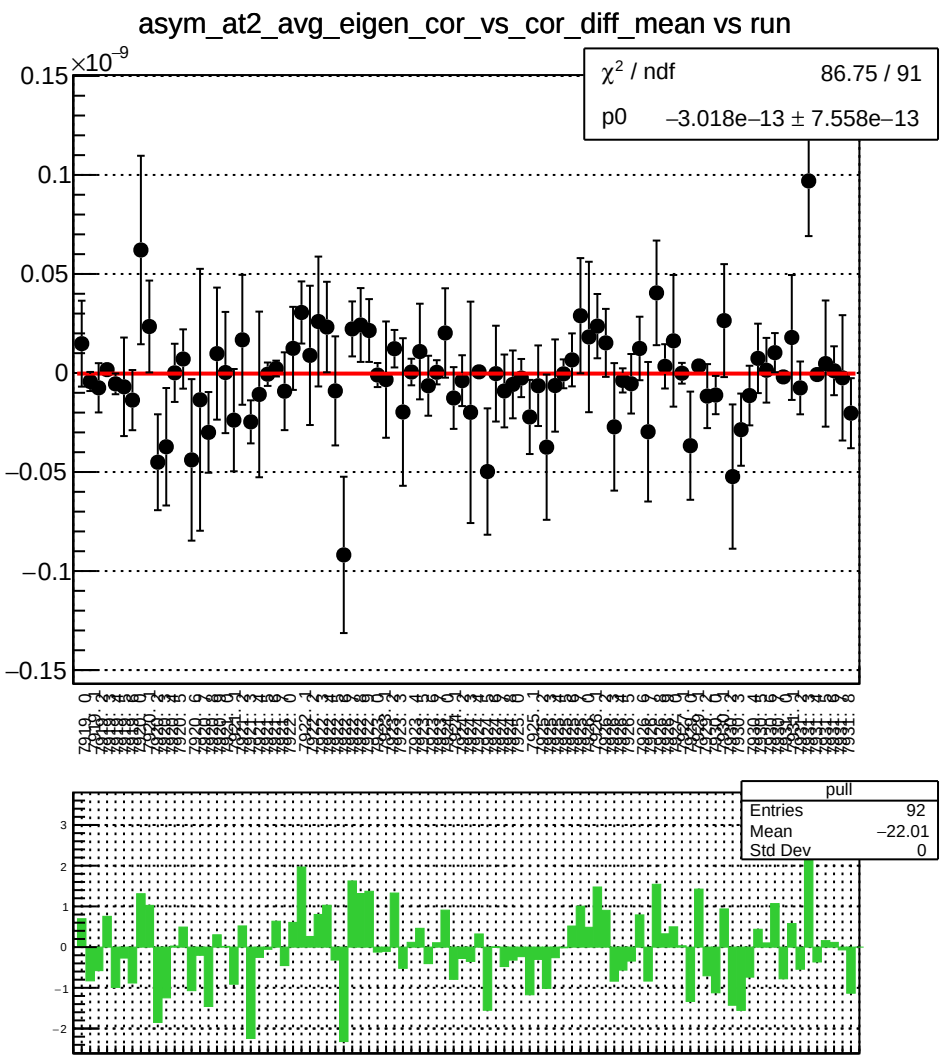

asym_at2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1732 / 91
p0 0.01977 ± 1.481e–05
0.0225
0.022
0.0215
0.021
0.0205
0.02
0.0195
0.019
0.0185
0.018

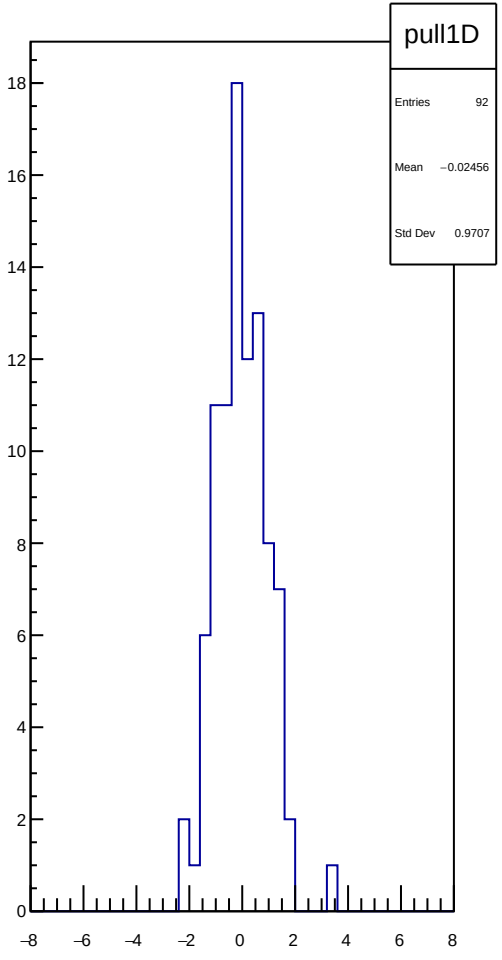

asym_at2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.25 / 91
p0 −0.2471 ± 0.417
pull
Entries 92
Mean −102.3
Std Dev 0
pull1D
Entries 92
Mean 0.02448
Std Dev 1.006

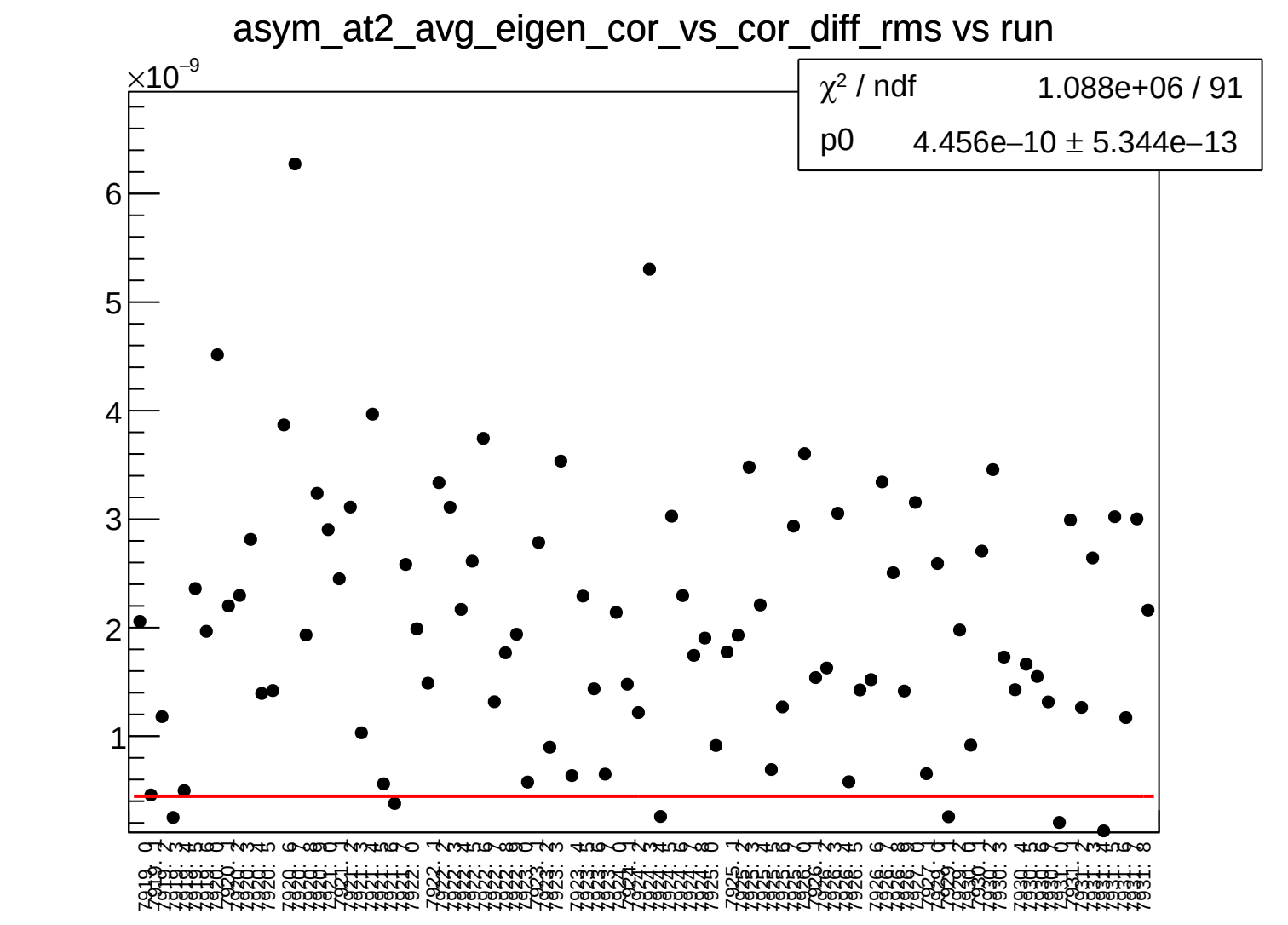

asym_at2_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 5592 / 91
p0 393.1 ± 0.2949
440
420
400
380
360
340
320

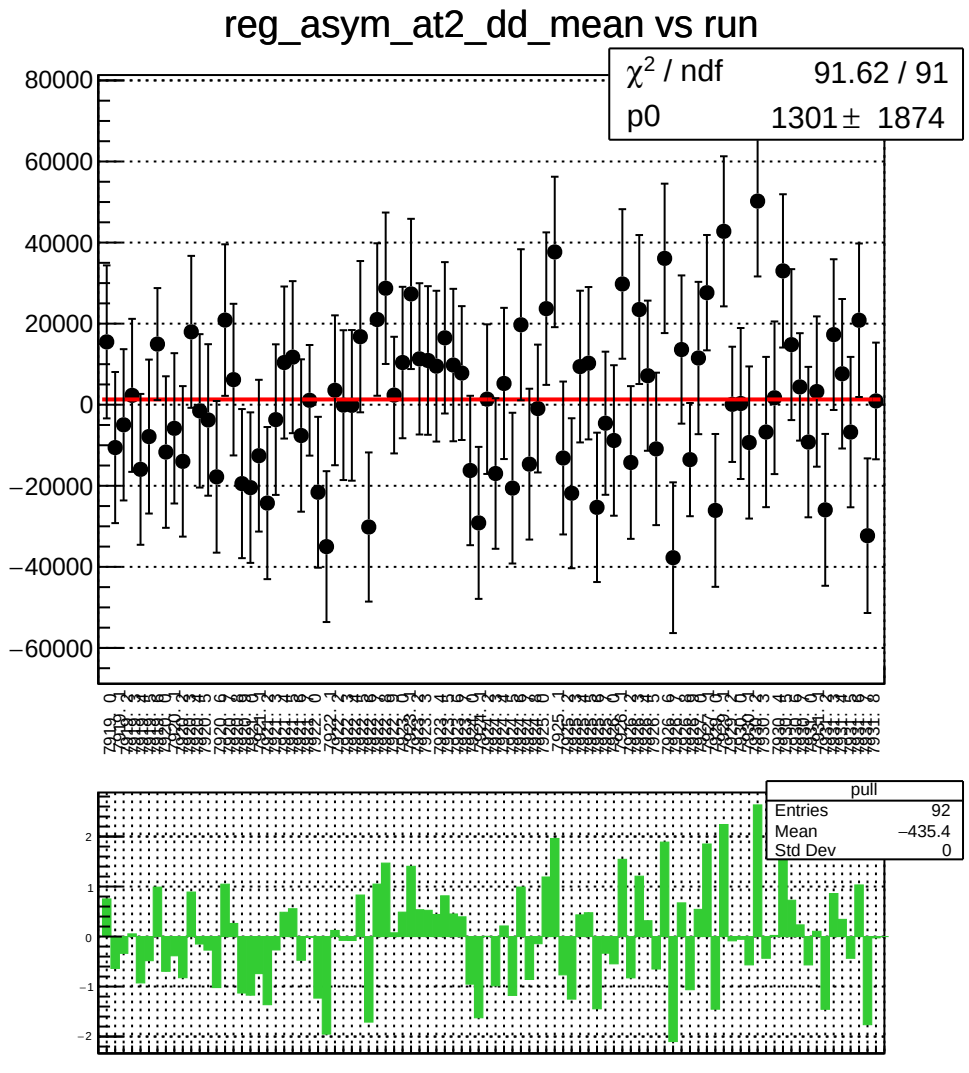

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.25 / 91
p0 −0.2471 ± 0.417
pull
Entries 92
Mean −102.3
Std Dev 0
pull1D
Entries 92
Mean 0.02448
Std Dev 1.006

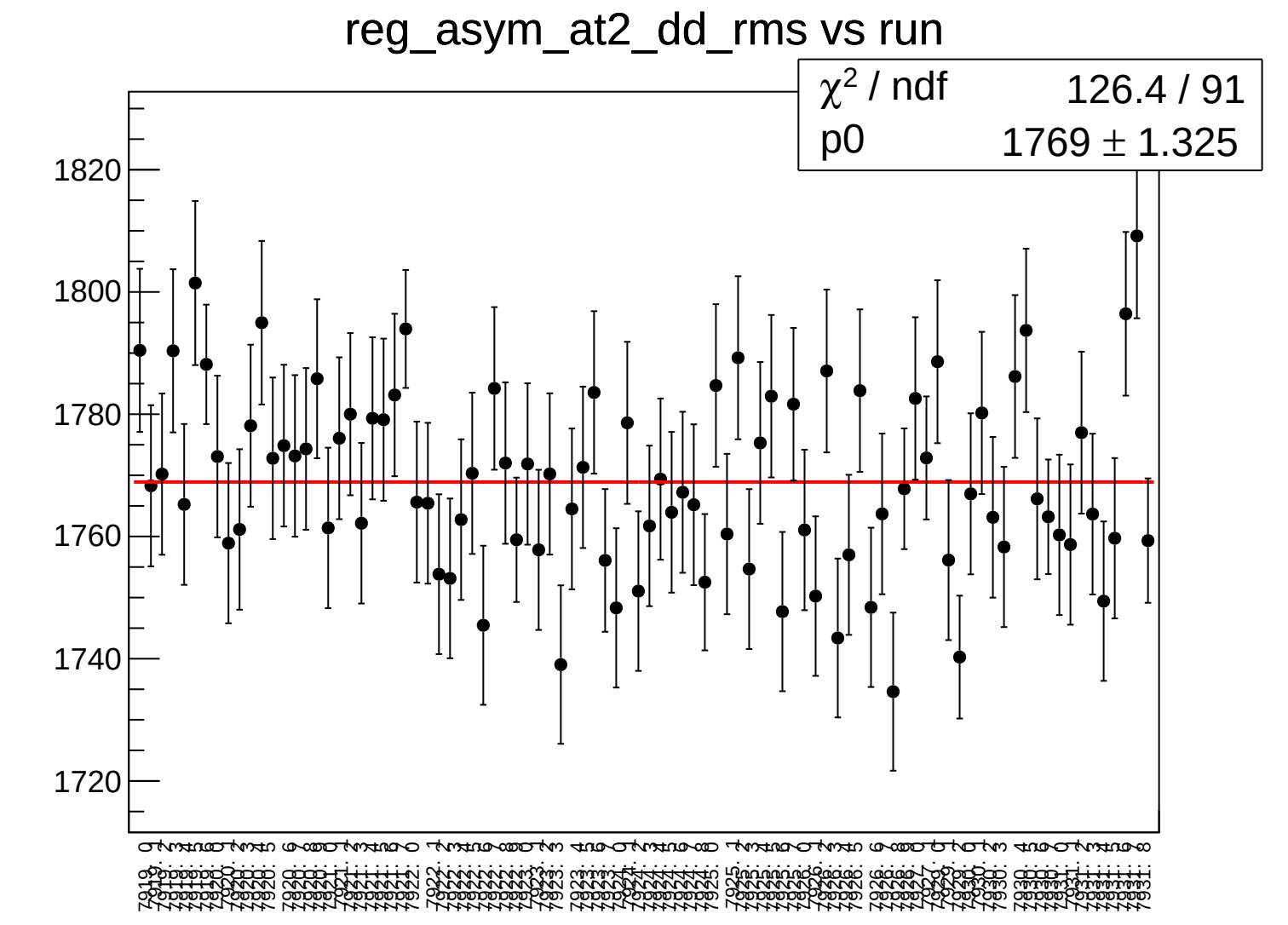

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5592 / 91
p0 393.1 ± 0.2949
440
420
400
380
360
340
320

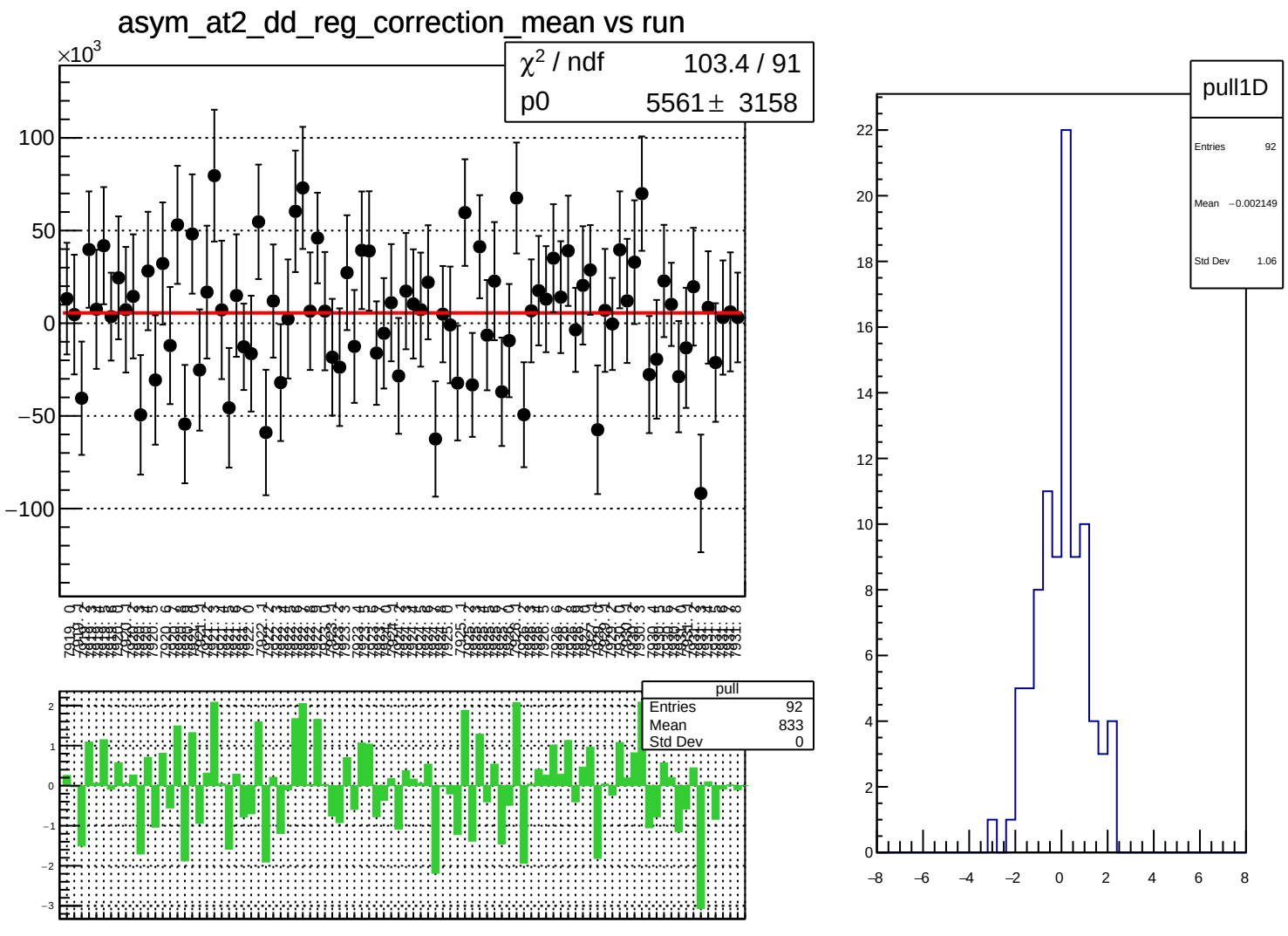

asym_at2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 86.75 / 91
p0 −3.018e−13 ± 7.558e−13
pull
Entries 92
Mean −22.01
Std Dev 0

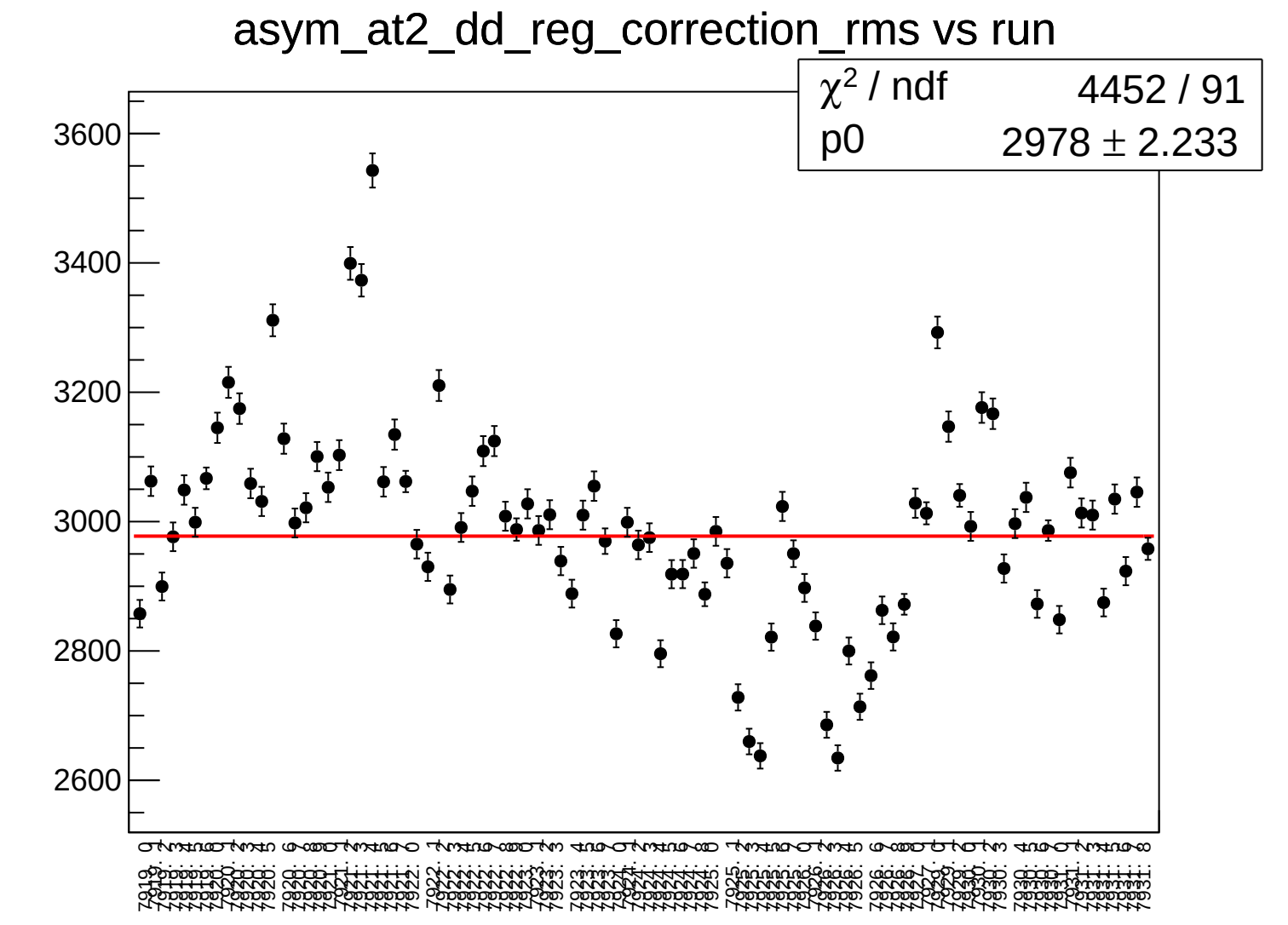

pull1D
Entries 92
Mean −0.02456
Std Dev 0.9707

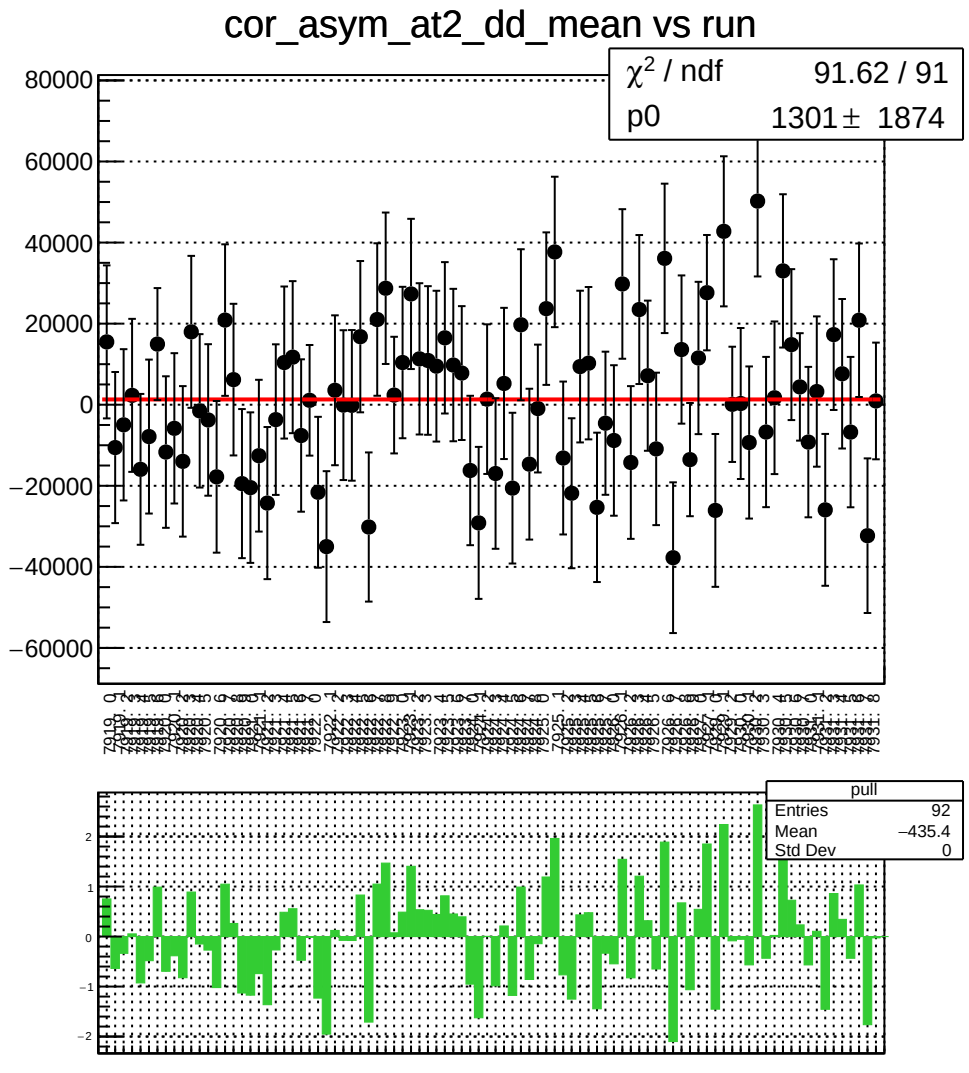

asym_at2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.088e+06 / 91
p0 4.456e−10 ± 5.344e−13
6
5
4
3
2
1

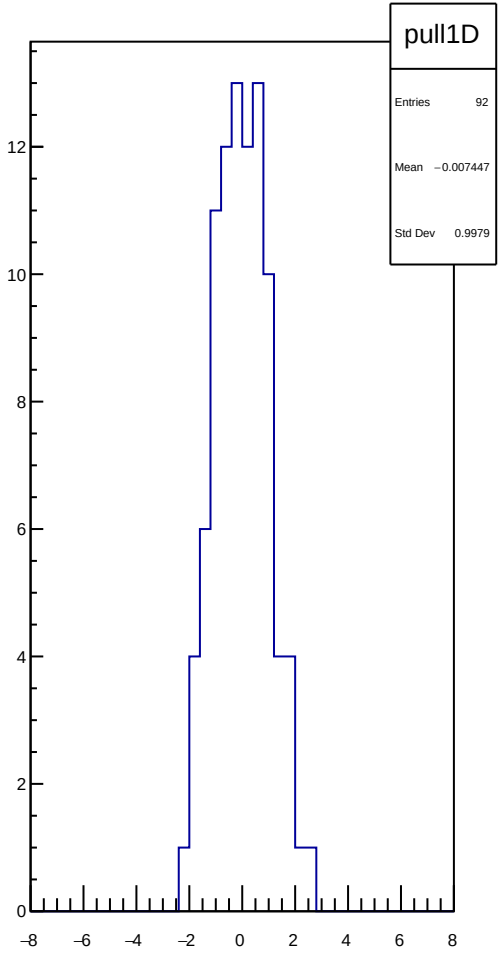

reg_asym_at2_dd_mean vs run
χ² / ndf 91.62 / 91
p0 1301 ± 1874
pull
Entries 92
Mean −435.4
Std Dev 0
pull1D
Entries 92
Mean −0.007447
Std Dev 0.9979

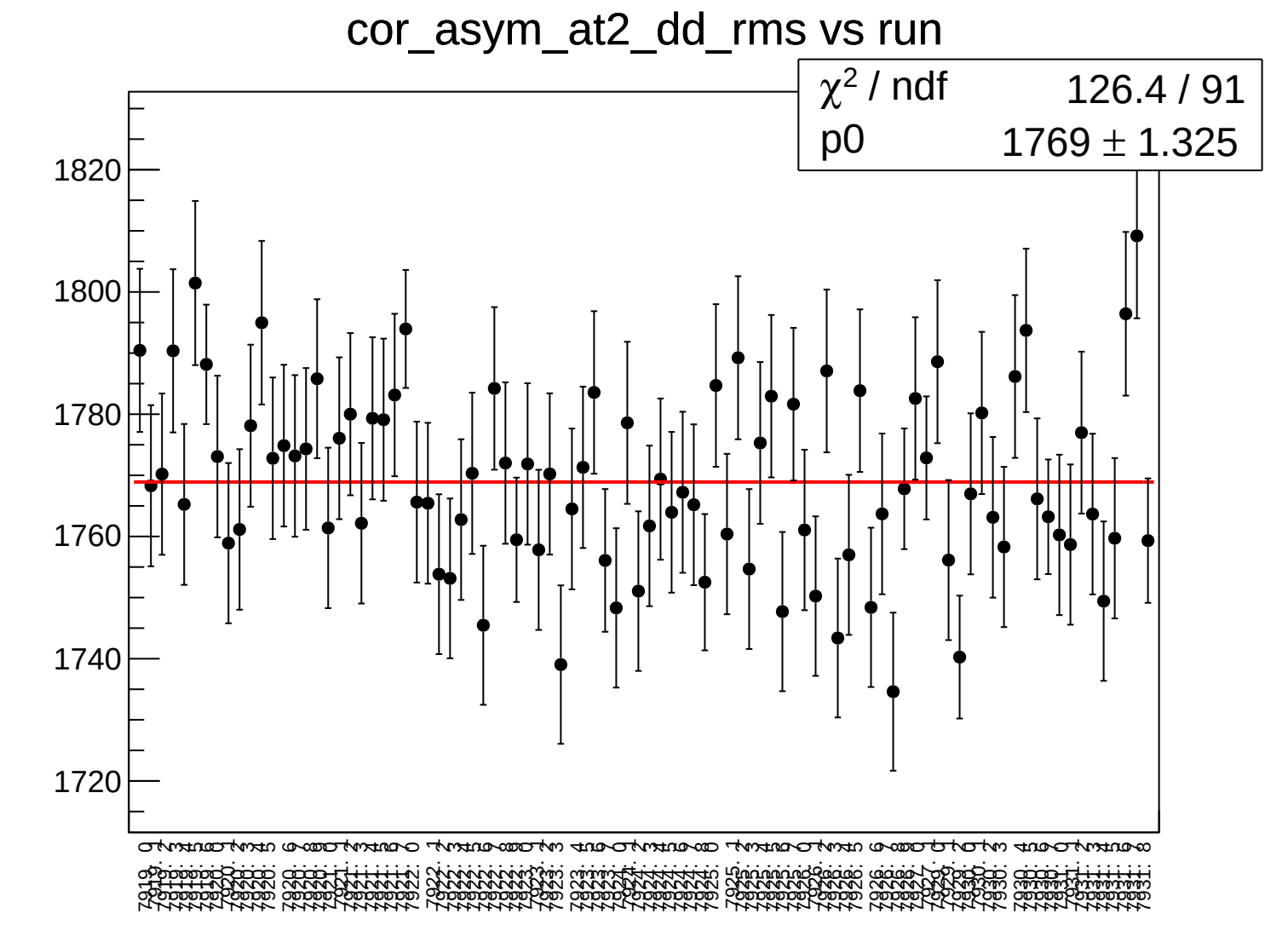

reg_asym_at2_dd_rms vs run
χ^2 / ndf 126.4 / 91
p0 1769 ± 1.325
1820
1800
1780
1760
1740
1720

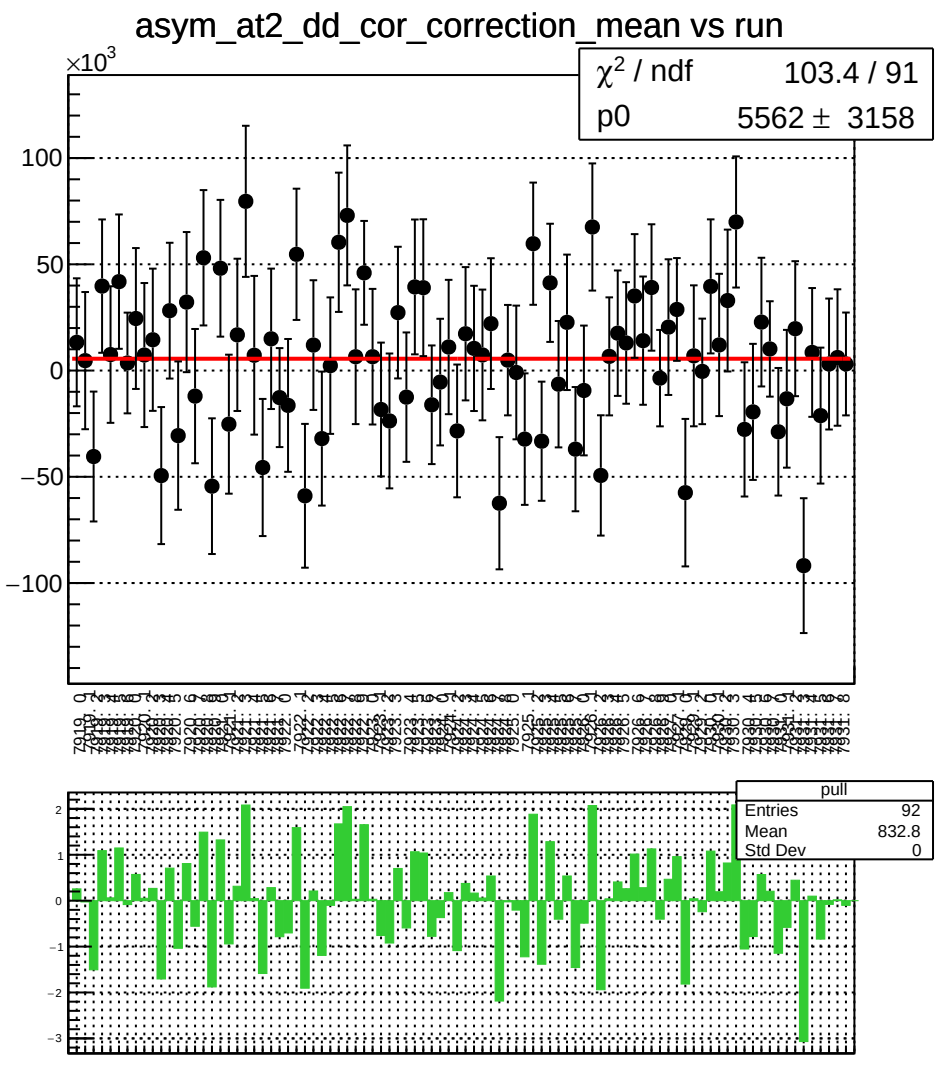

asym_at2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 103.4 / 91
p0 5561 ± 3158
100
50
0
−50
−100
pull
Entries 92
Mean 833
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.002149
Std Dev 1.06
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

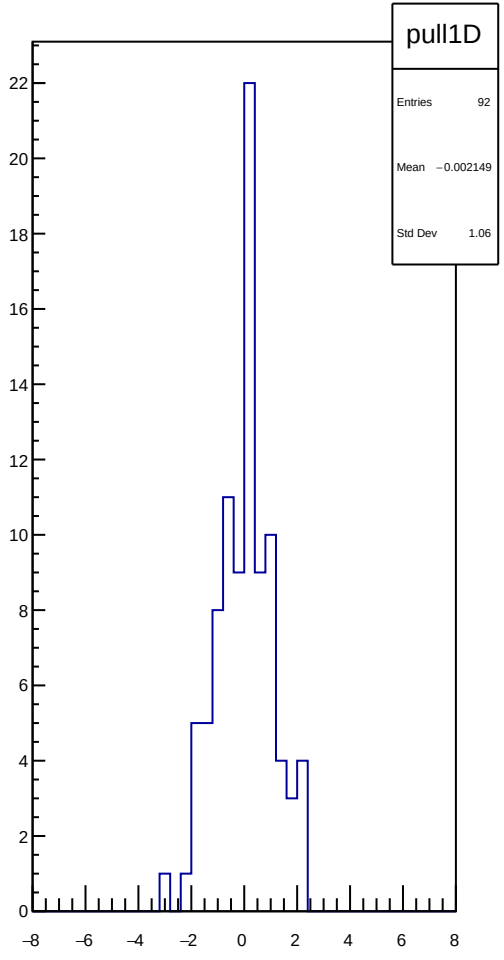

asym_at2_dd_reg_correction_rms vs run
χ² / ndf 4452 / 91
p0 2978 ± 2.233
3600
3400
3200
3000
2800
2600

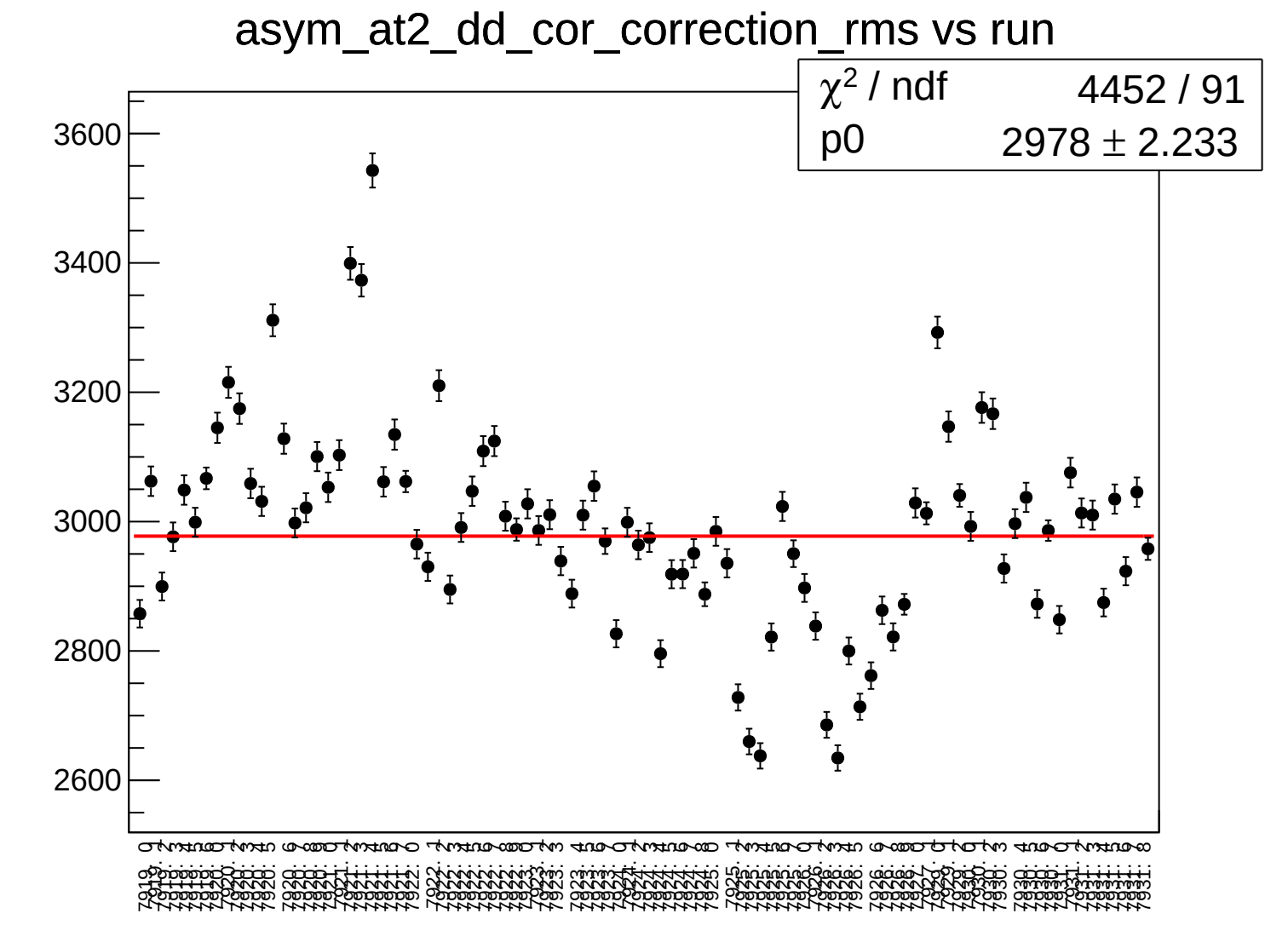

cor_asym_at2_dd_mean vs run
χ² / ndf 91.62 / 91
p0 1301 ± 1874
pull
Entries 92
Mean −435.4
Std Dev 0

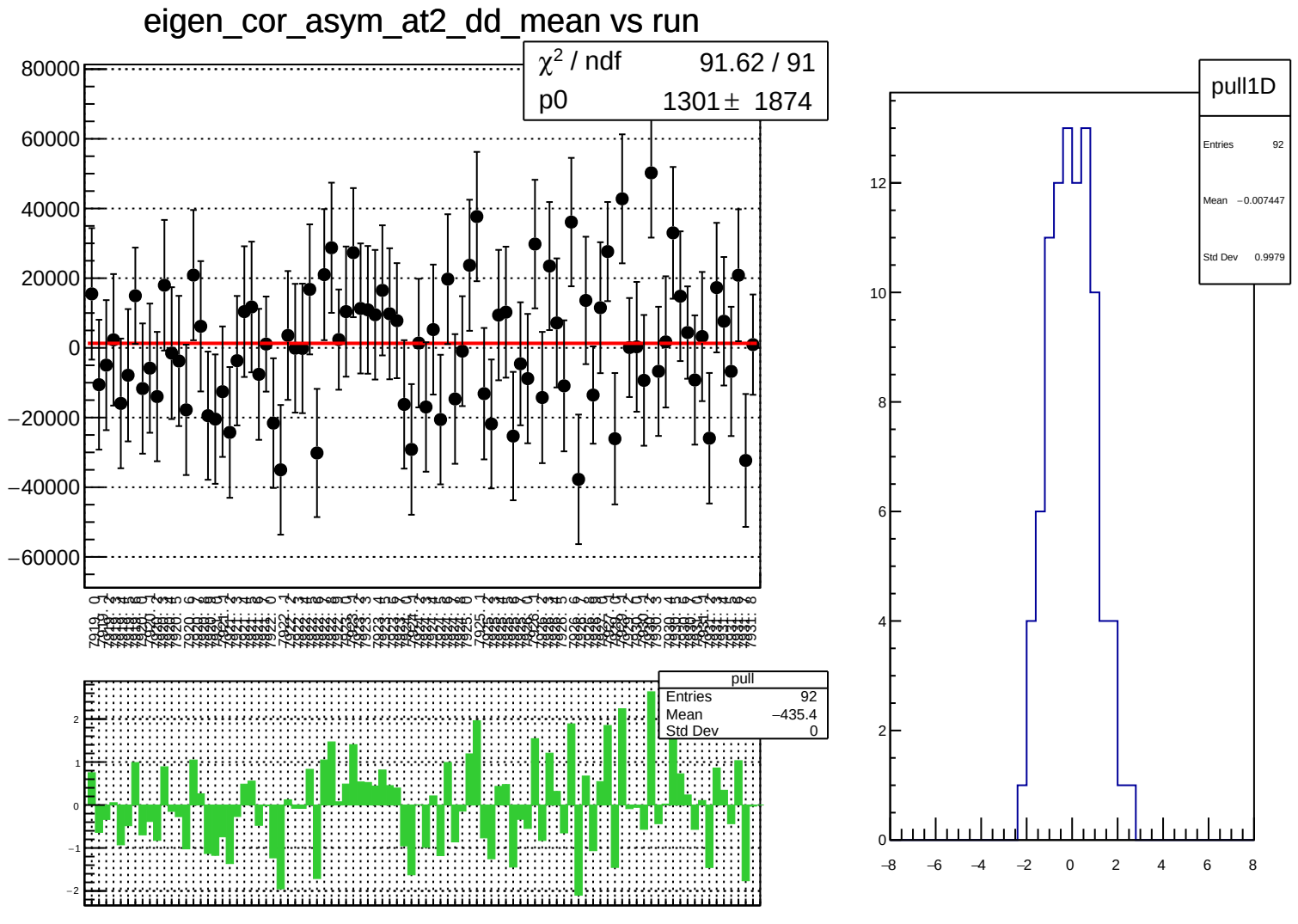

pull1D
Entries 92
Mean −0.007447
Std Dev 0.9979

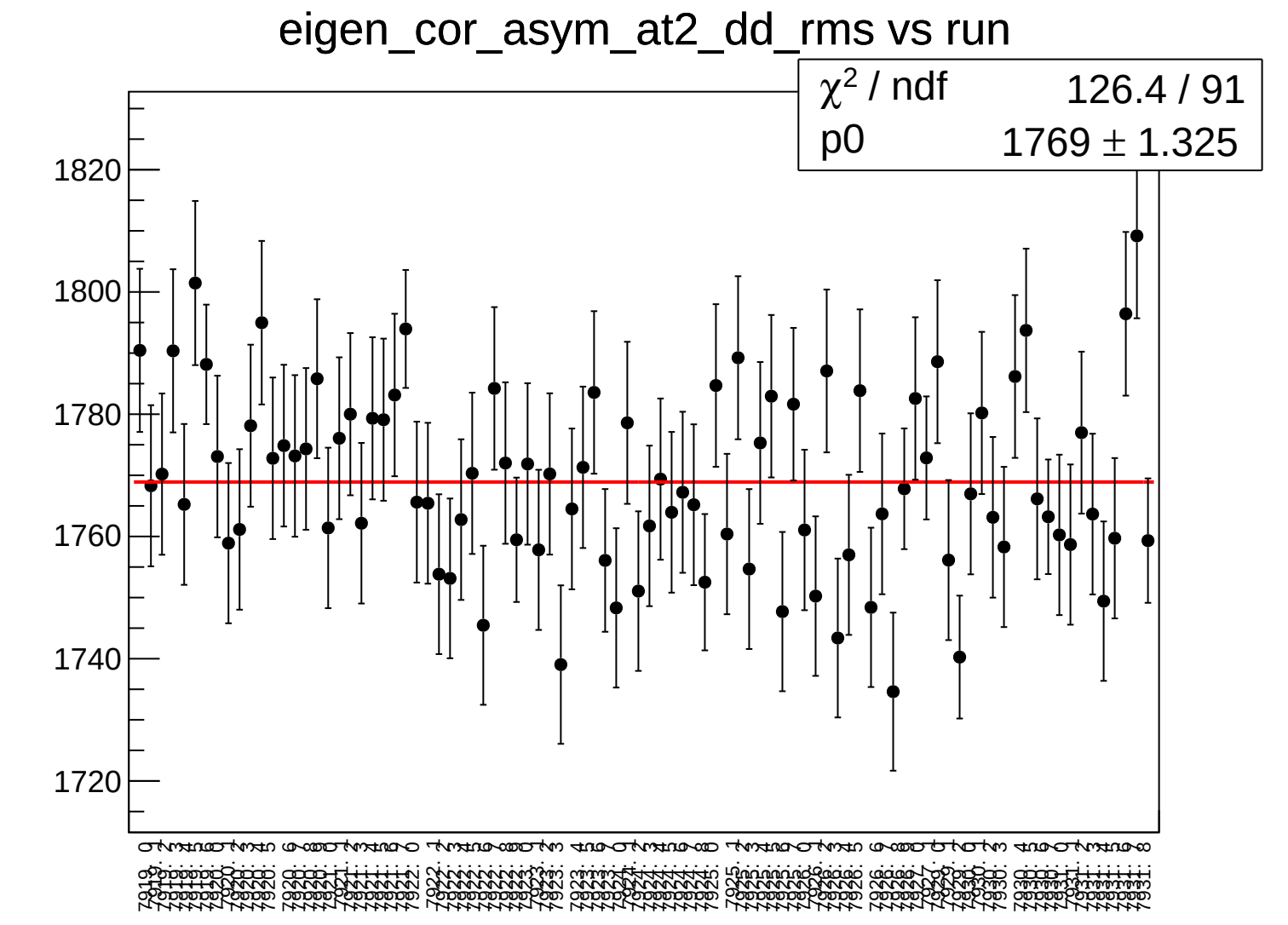

cor_asym_at2_dd_rms vs run
χ² / ndf 126.4 / 91
p0 1769 ± 1.325
1820
1800
1780
1760
1740
1720

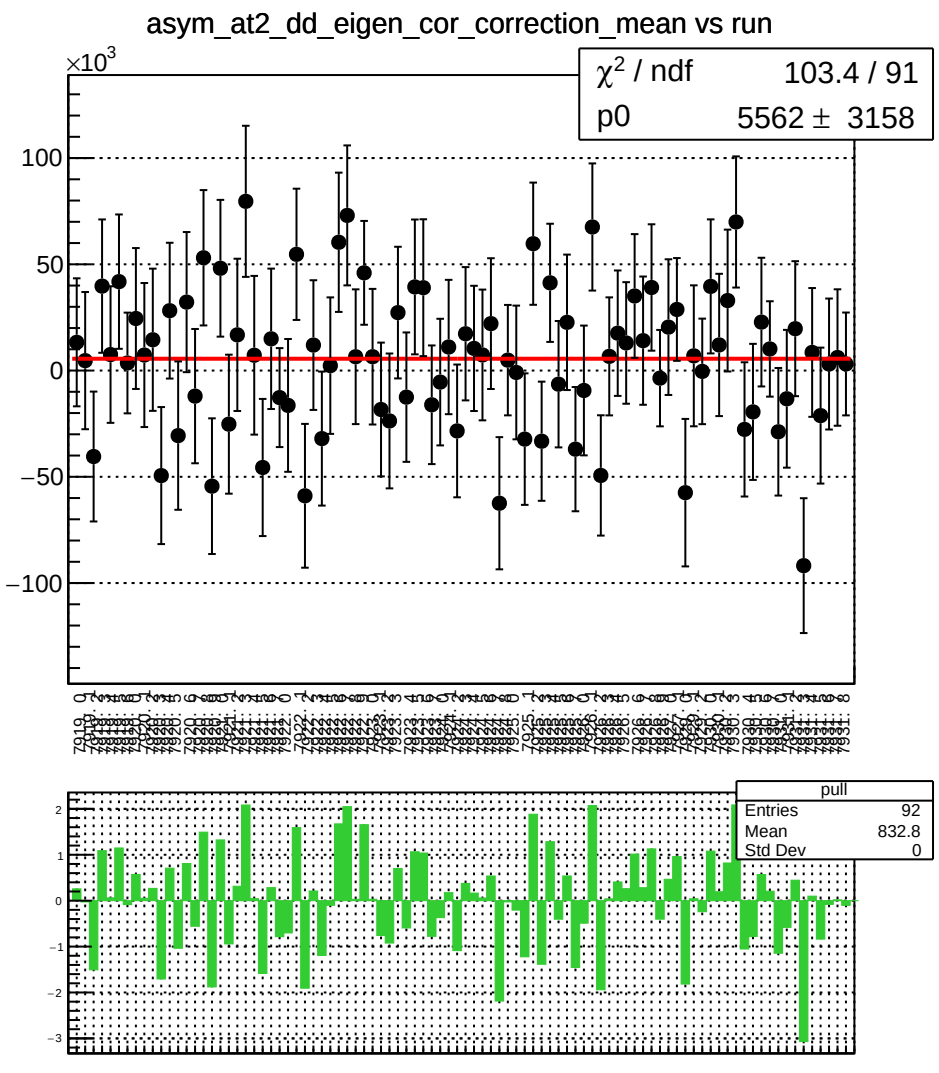

asym_at2_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 103.4 / 91
p0 5562 ± 3158
100
50
0
−50
−100
pull
Entries 92
Mean 832.8
Std Dev 0
2
1
0
−1
−2
−3

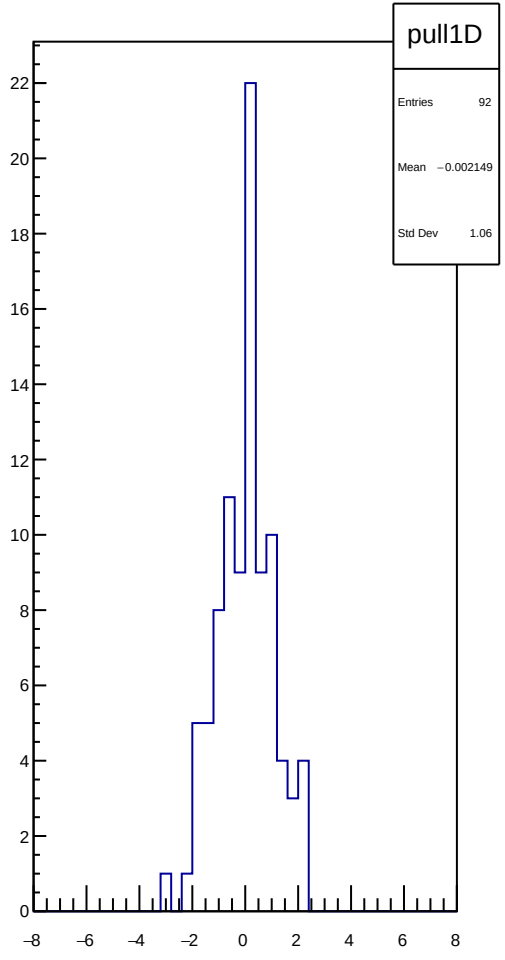

pull1D
Entries 92
Mean −0.002149
Std Dev 1.06
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

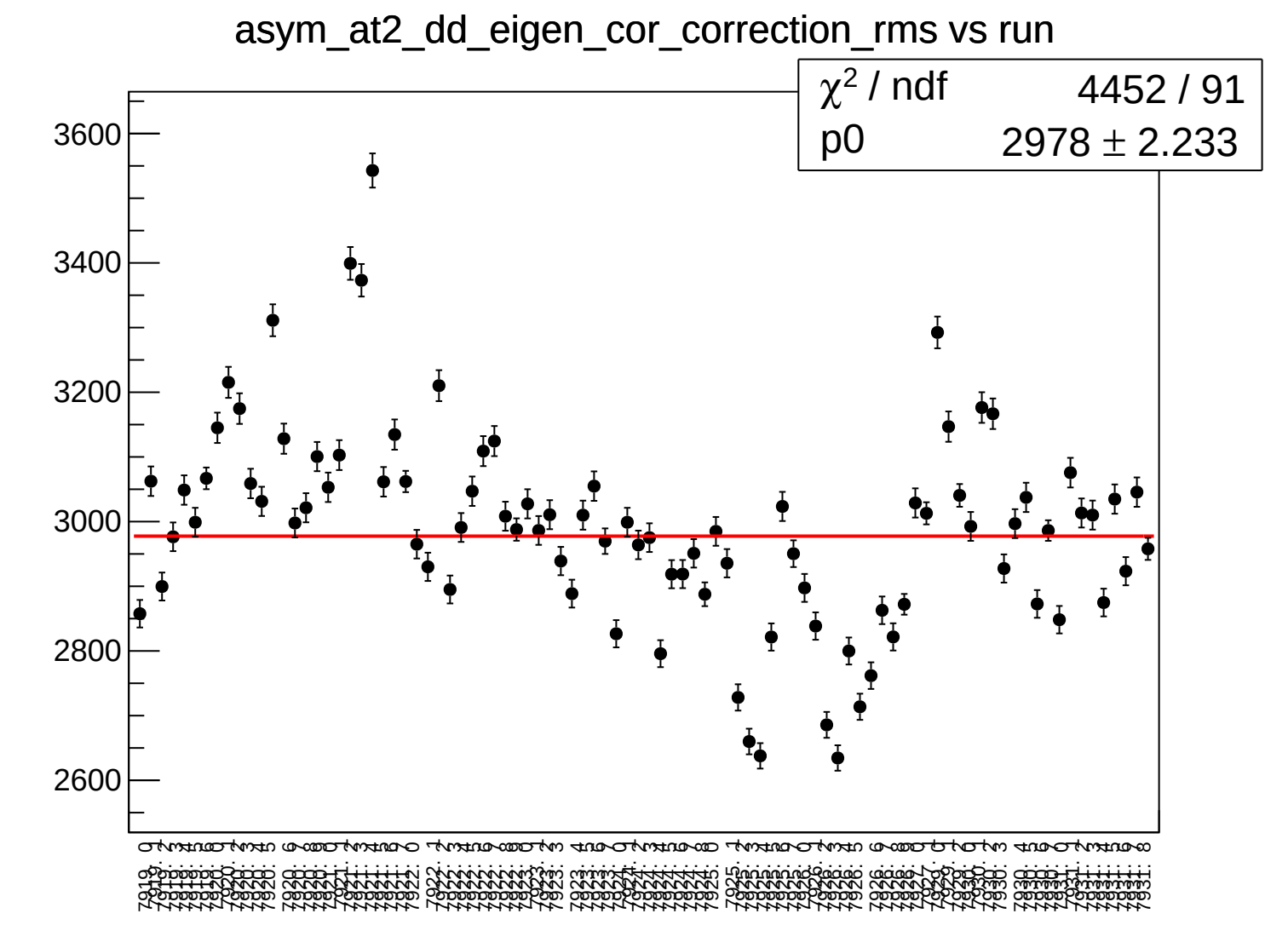

asym_at2_dd_cor_correction_rms vs run
χ² / ndf 4452 / 91
p0 2978 ± 2.233
3600
3400
3200
3000
2800
2600

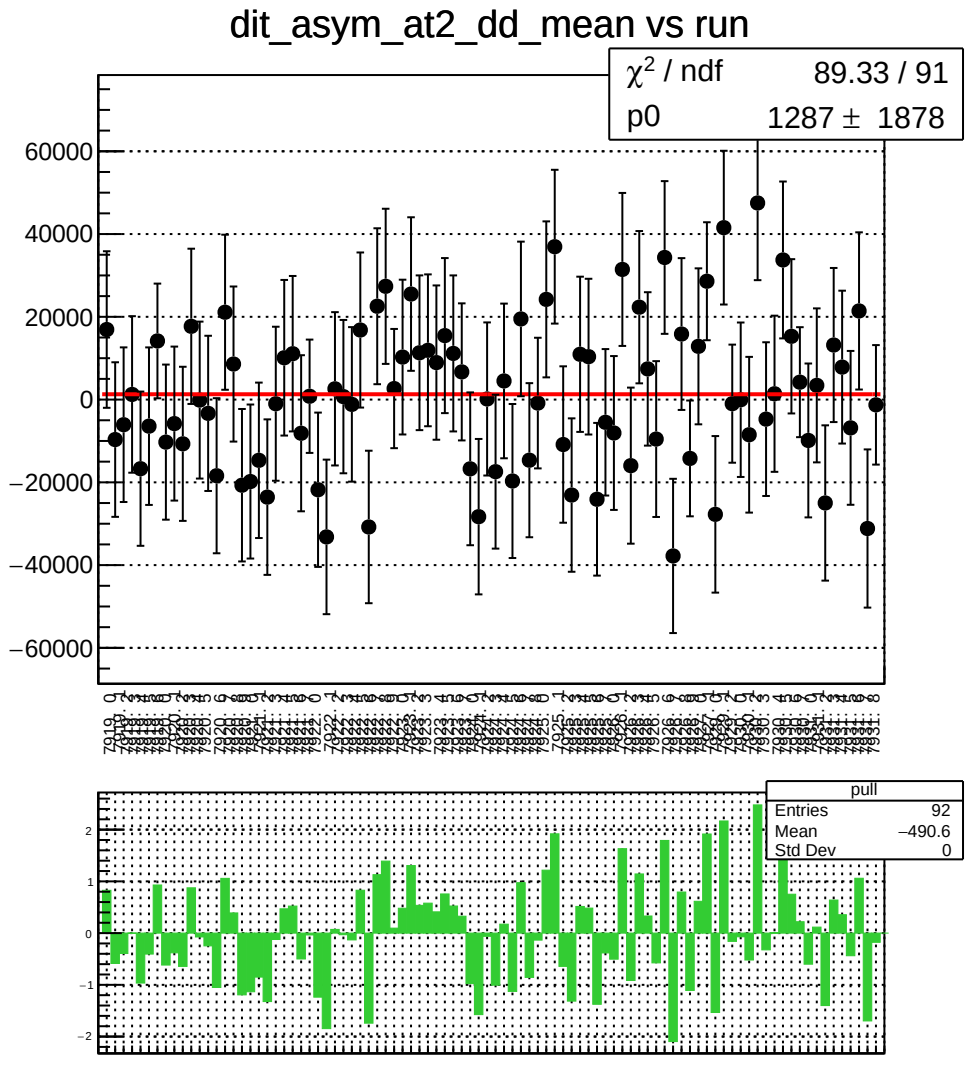

eigen_cor_asym_at2_dd_mean vs run
χ² / ndf 91.62 / 91
p0 1301 ± 1874
pull
Entries 92
Mean −435.4
Std Dev 0
pull1D
Entries 92
Mean −0.007447
Std Dev 0.9979

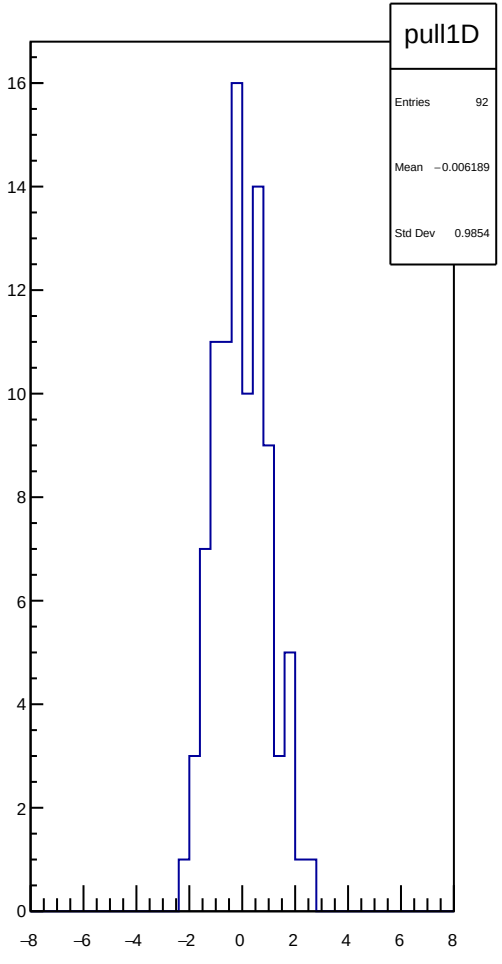

eigen_cor_asym_at2_dd_rms vs run
χ² / ndf 126.4 / 91
p0 1769 ± 1.325
1820
1800
1780
1760
1740
1720

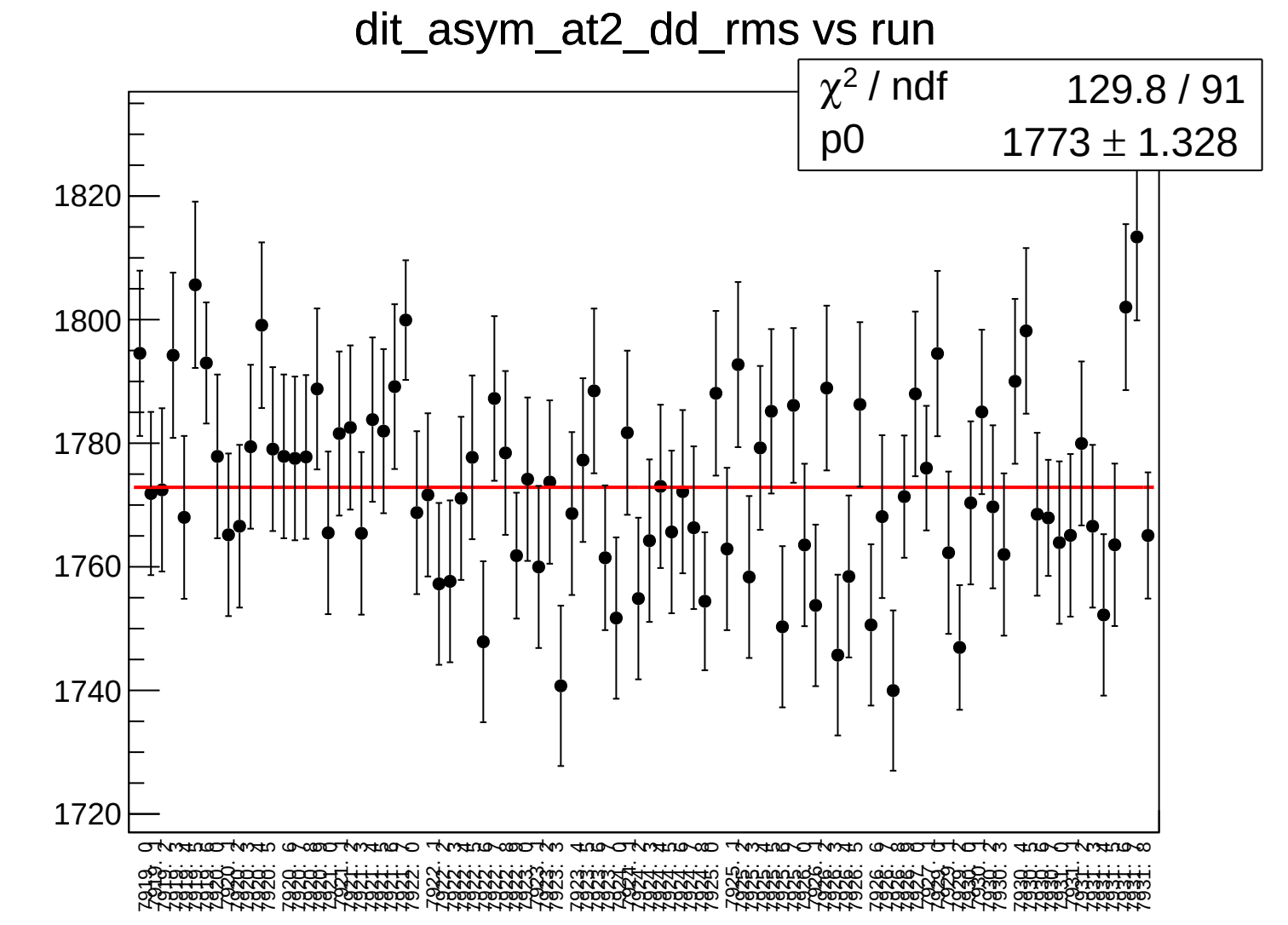

asym_at2_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 103.4 / 91
p0 5562 ± 3158
100
50
0
−50
−100
pull
Entries 92
Mean 832.8
Std Dev 0
2
1
0
−1
−2
−3

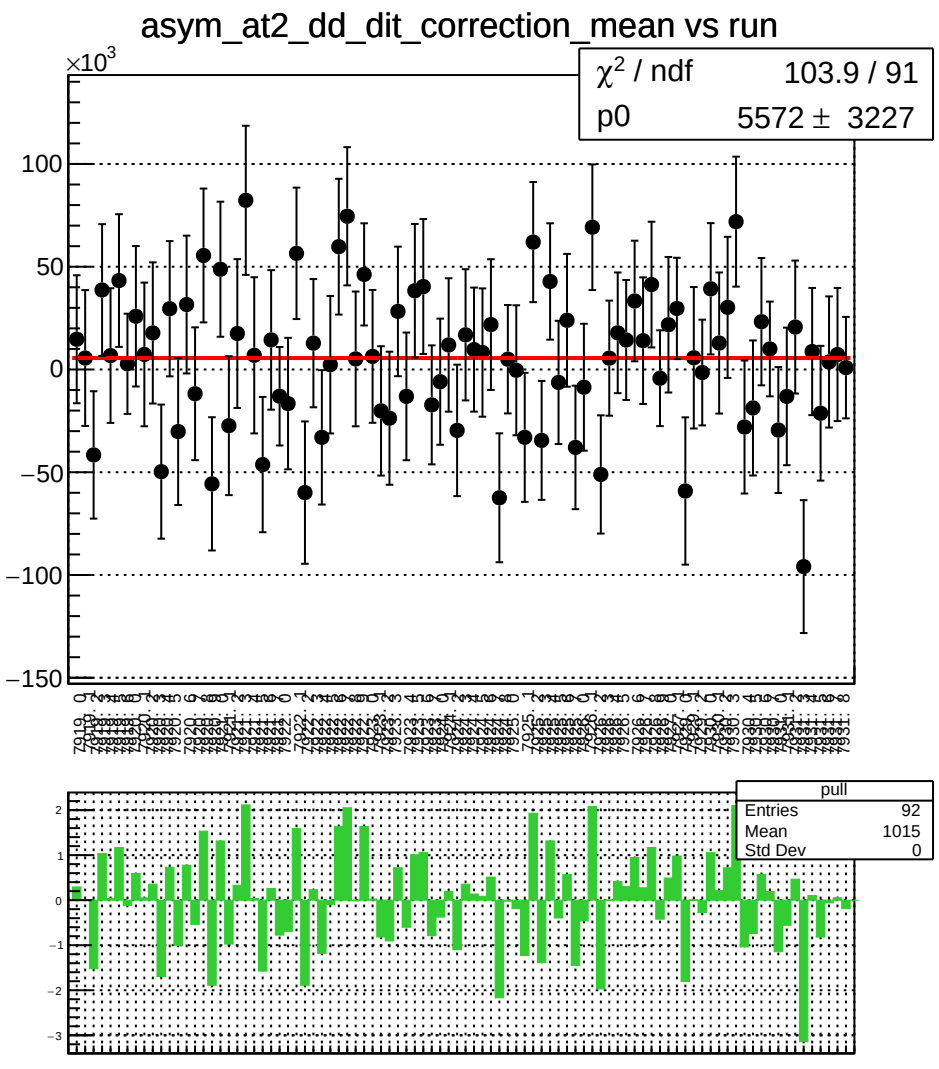

pull1D
Entries 92
Mean −0.002149
Std Dev 1.06
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

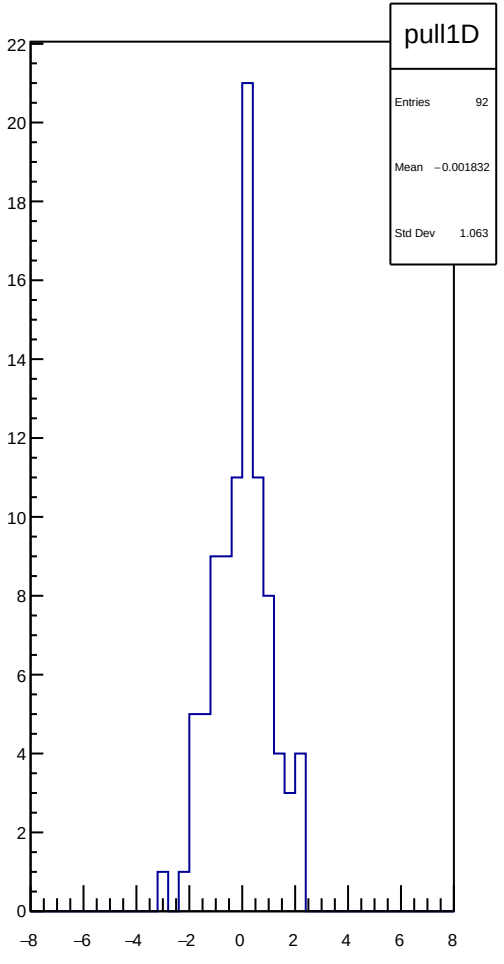

asym_at2_dd_eigen_cor_correction_rms vs run
χ^2 / ndf 4452 / 91
p0 2978 ± 2.233
3600
3400
3200
3000
2800
2600

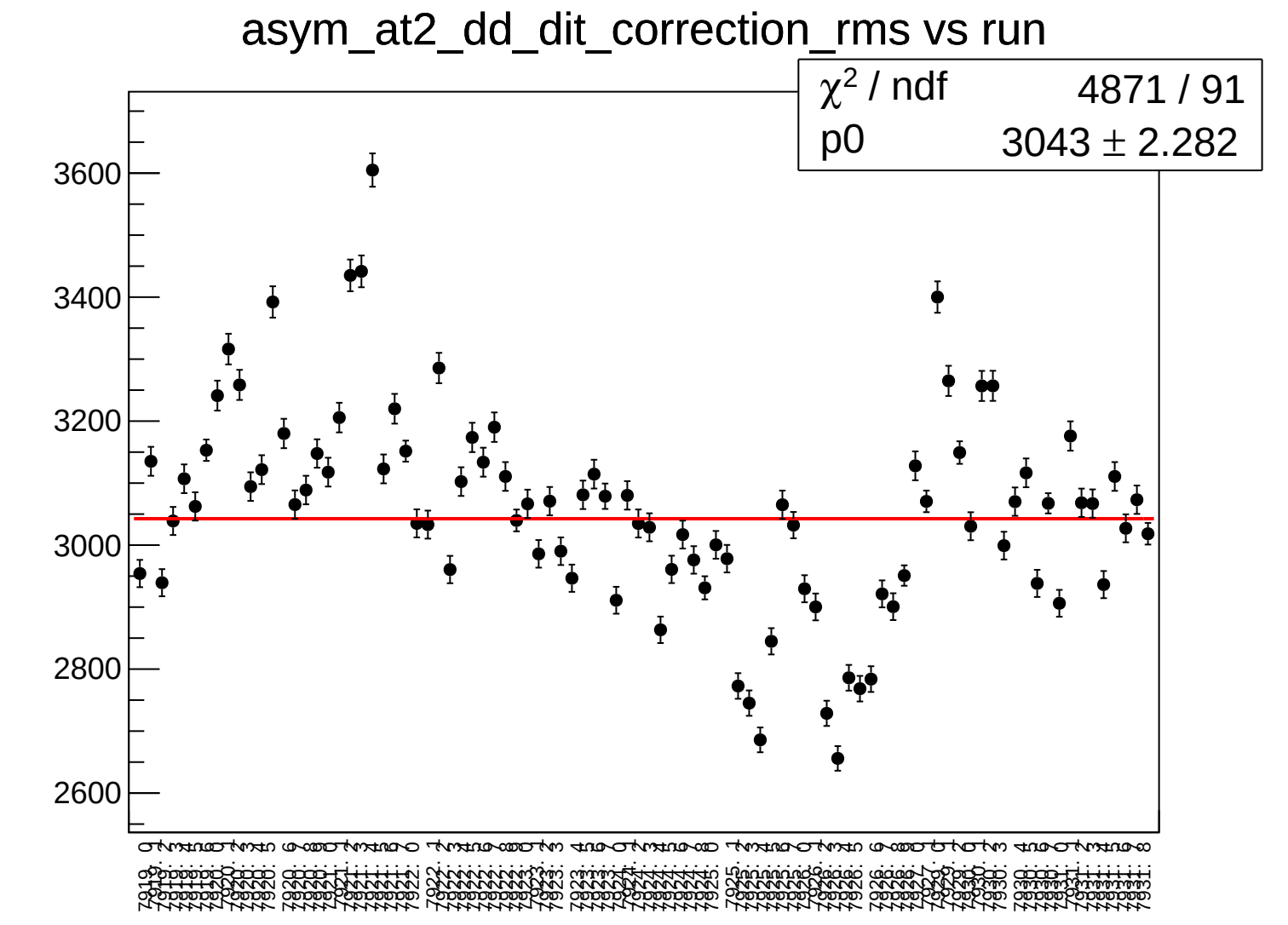

dit_asym_at2_dd_mean vs run
χ² / ndf 89.33 / 91
p0 1287 ± 1878
pull
Entries 92
Mean −490.6
Std Dev 0

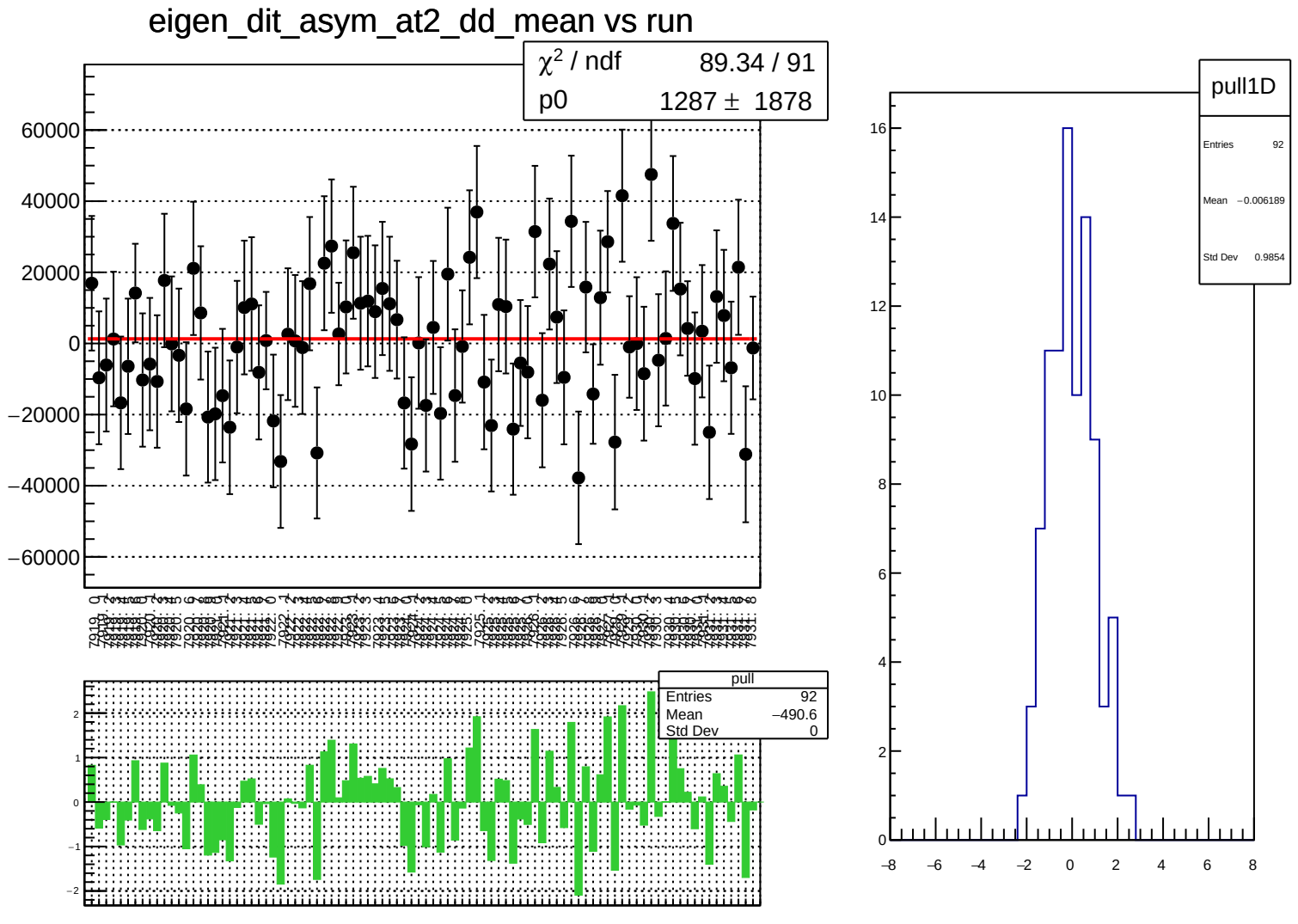

pull1D
Entries 92
Mean −0.006189
Std Dev 0.9854

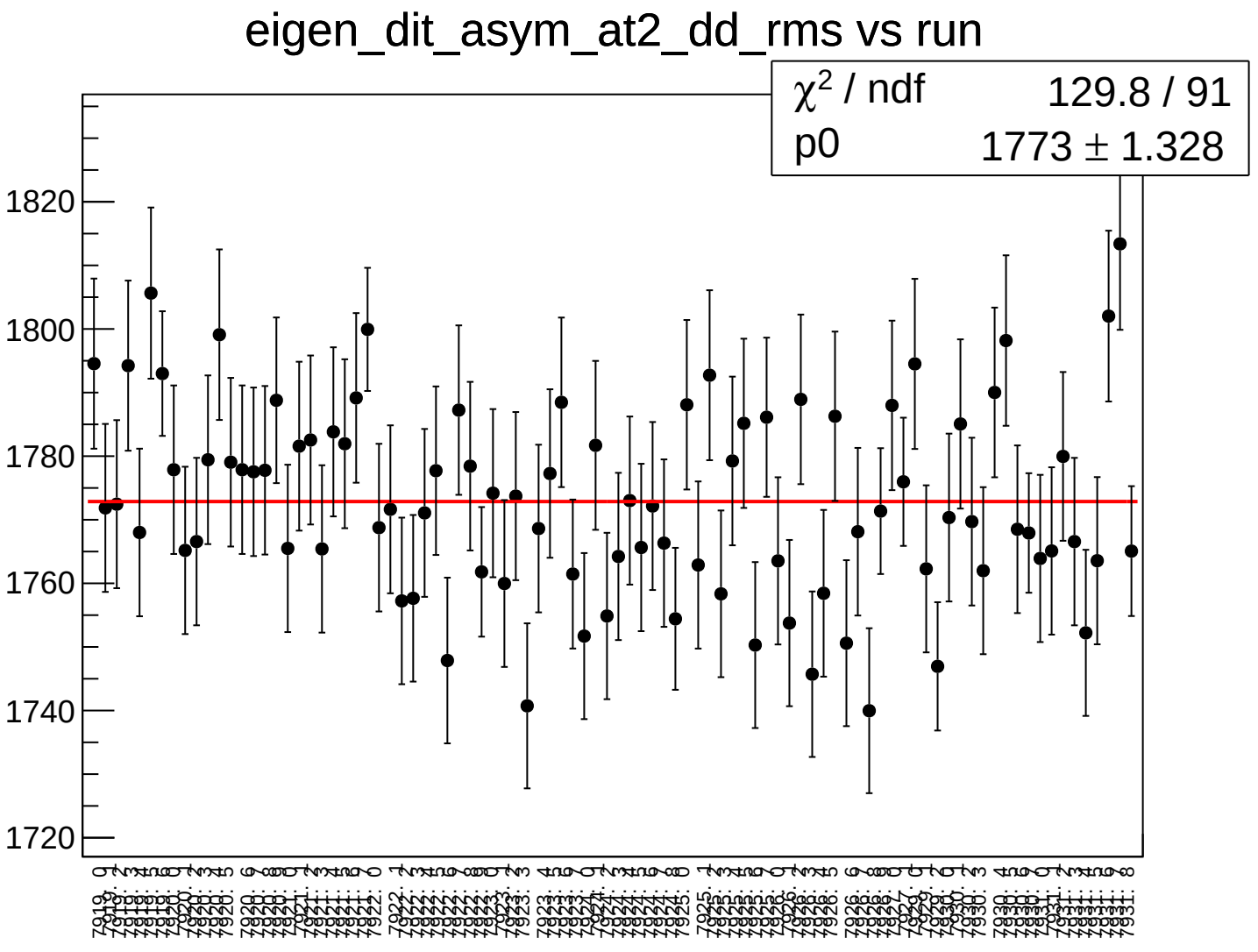

dit_asym_at2_dd_rms vs run
χ^2 / ndf 129.8 / 91
p0 1773 ± 1.328
1820
1800
1780
1760
1740
1720

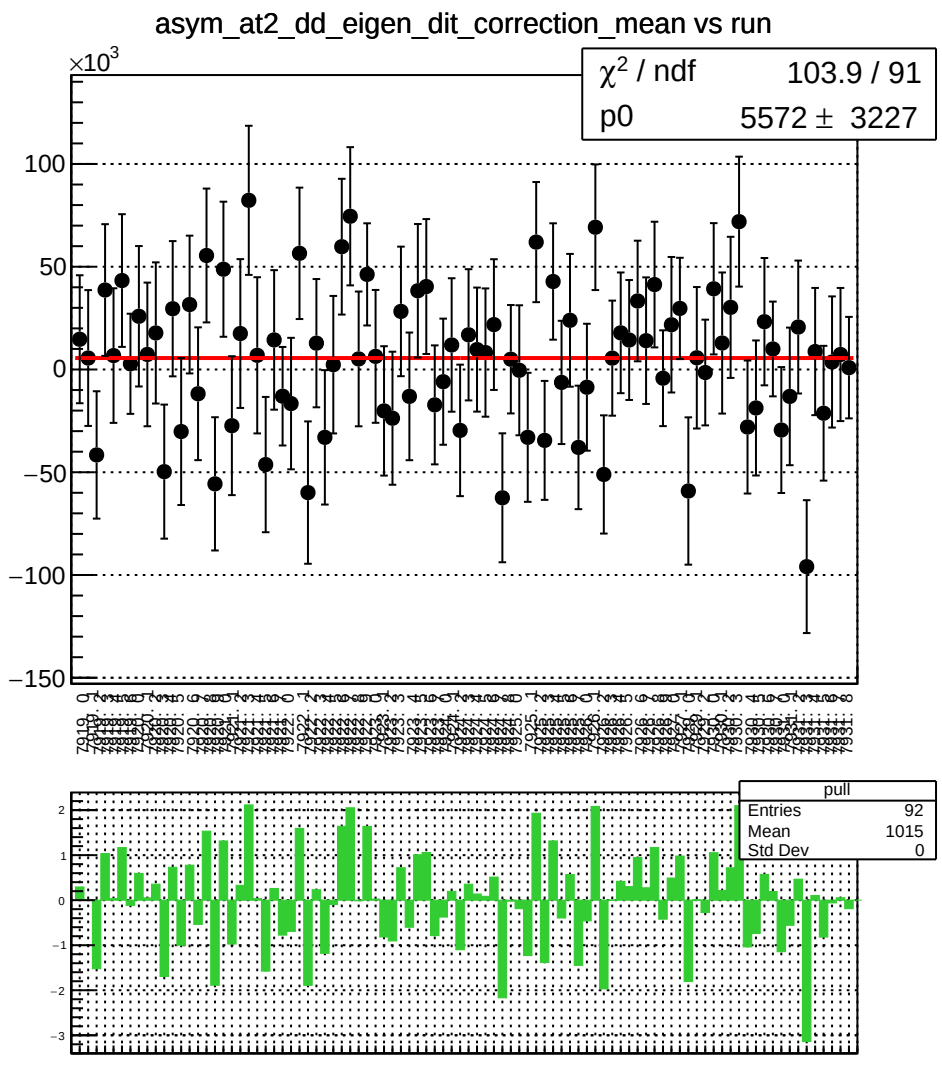

asym_at2_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 103.9 / 91
p0 5572 ± 3227
100
50
0
−50
−100
−150
pull
Entries 92
Mean 1015
Std Dev 0
2
1
0
−1
−2
−3

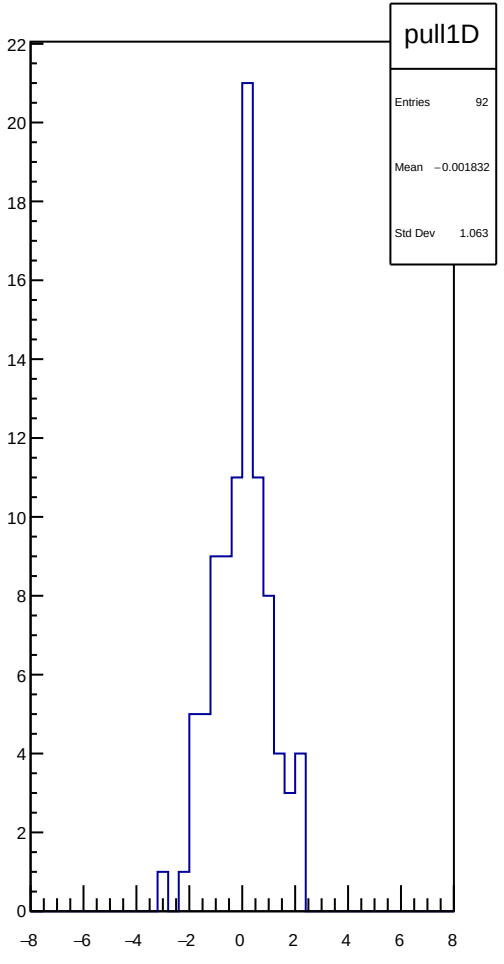

pull1D
Entries 92
Mean −0.001832
Std Dev 1.063
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

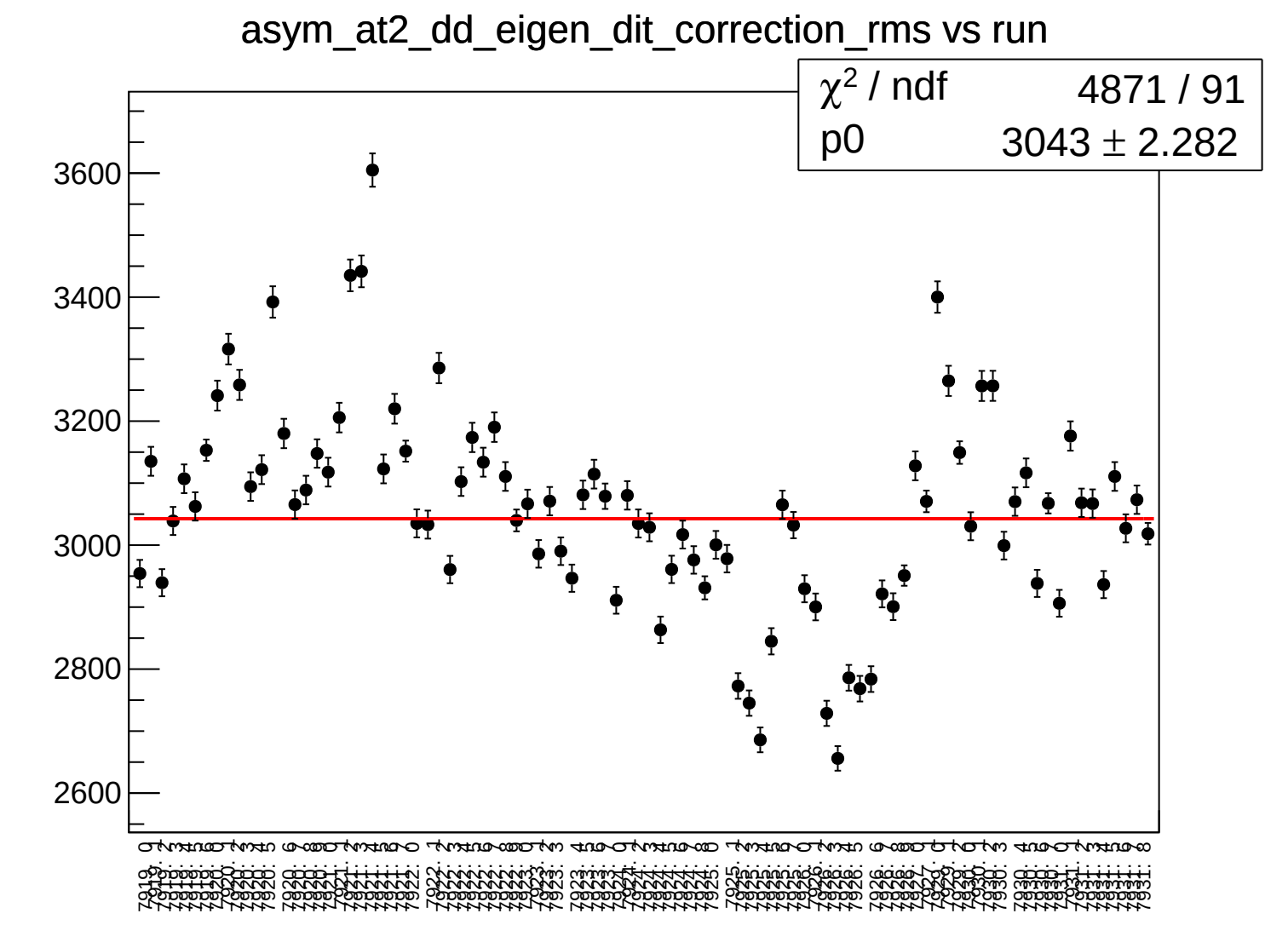

asym_at2_dd_dit_correction_rms vs run
χ² / ndf 4871 / 91
p0 3043 ± 2.282
3600
3400
3200
3000
2800
2600

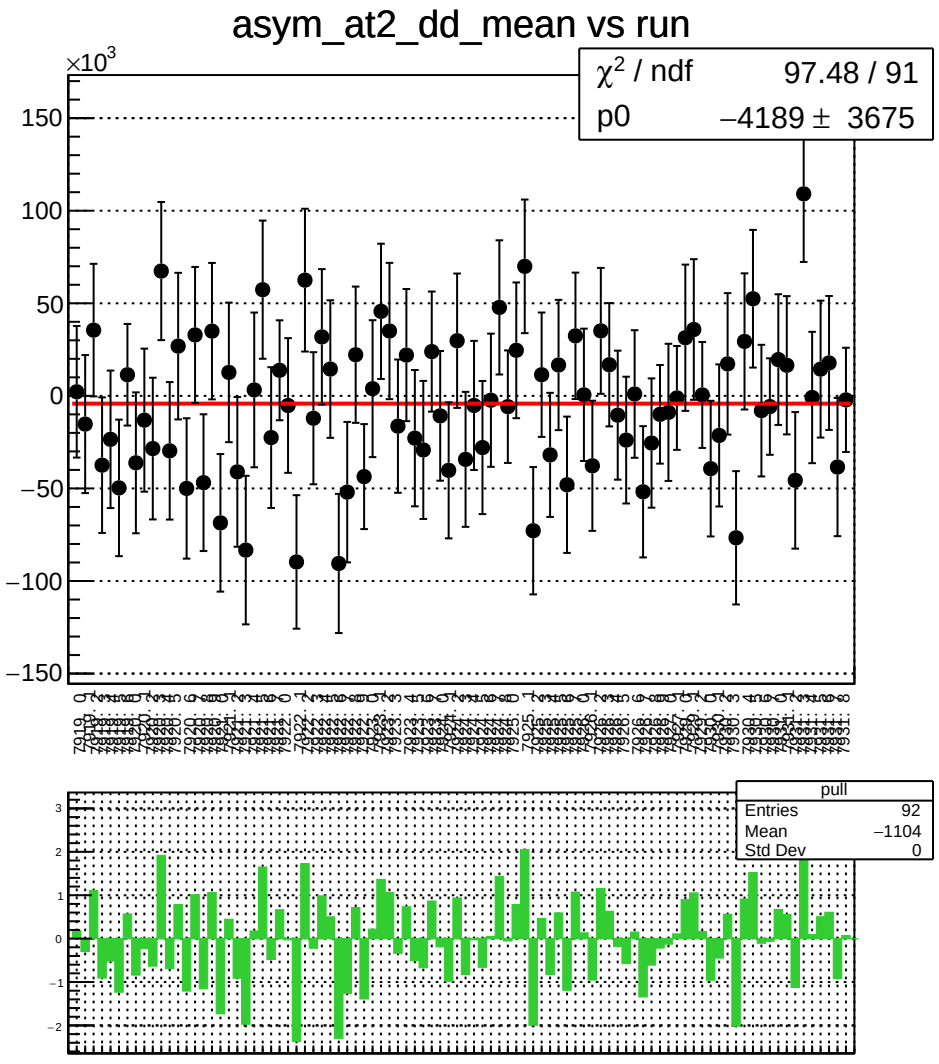

eigen_dit_asym_at2_dd_mean vs run
χ² / ndf 89.34 / 91
p0 1287 ± 1878
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −490.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.006189
Std Dev 0.9854
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

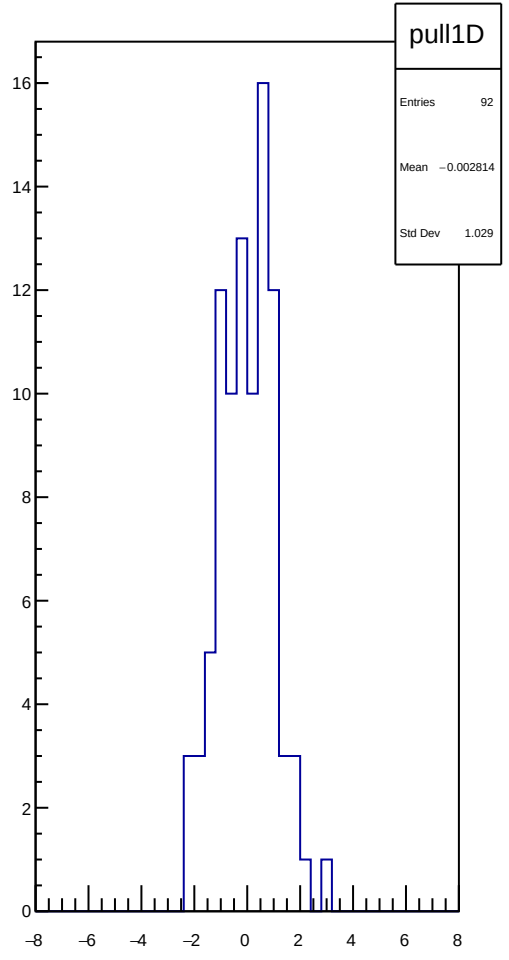

eigen_dit_asym_at2_dd_rms vs run
χ² / ndf 129.8 / 91
p0 1773 ± 1.328
1820
1800
1780
1760
1740
1720

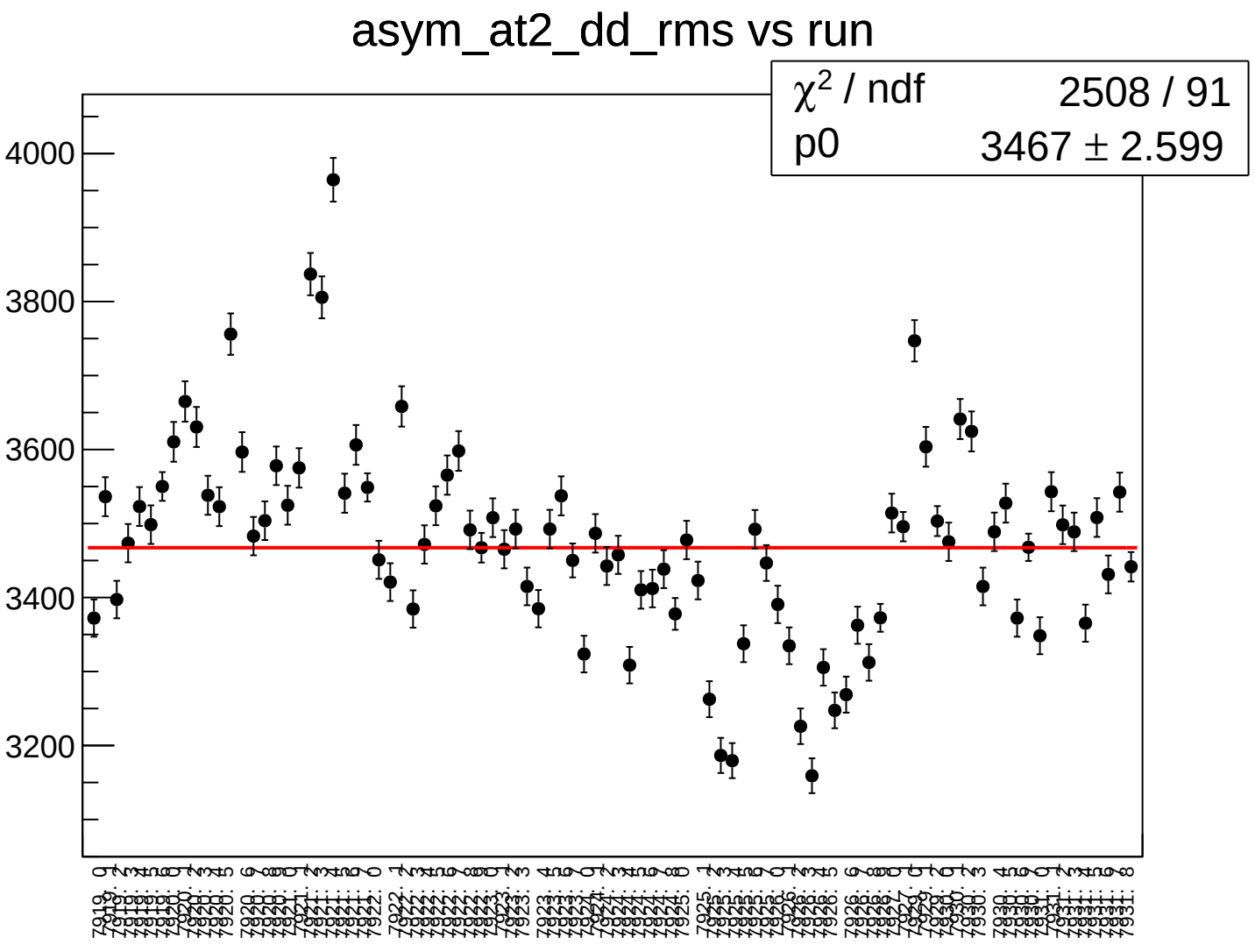

asym_at2_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 103.9 / 91
p0 5572 ± 3227
100
50
0
−50
−100
−150
pull
Entries 92
Mean 1015
Std Dev 0
2
1
0
−1
−2
−3

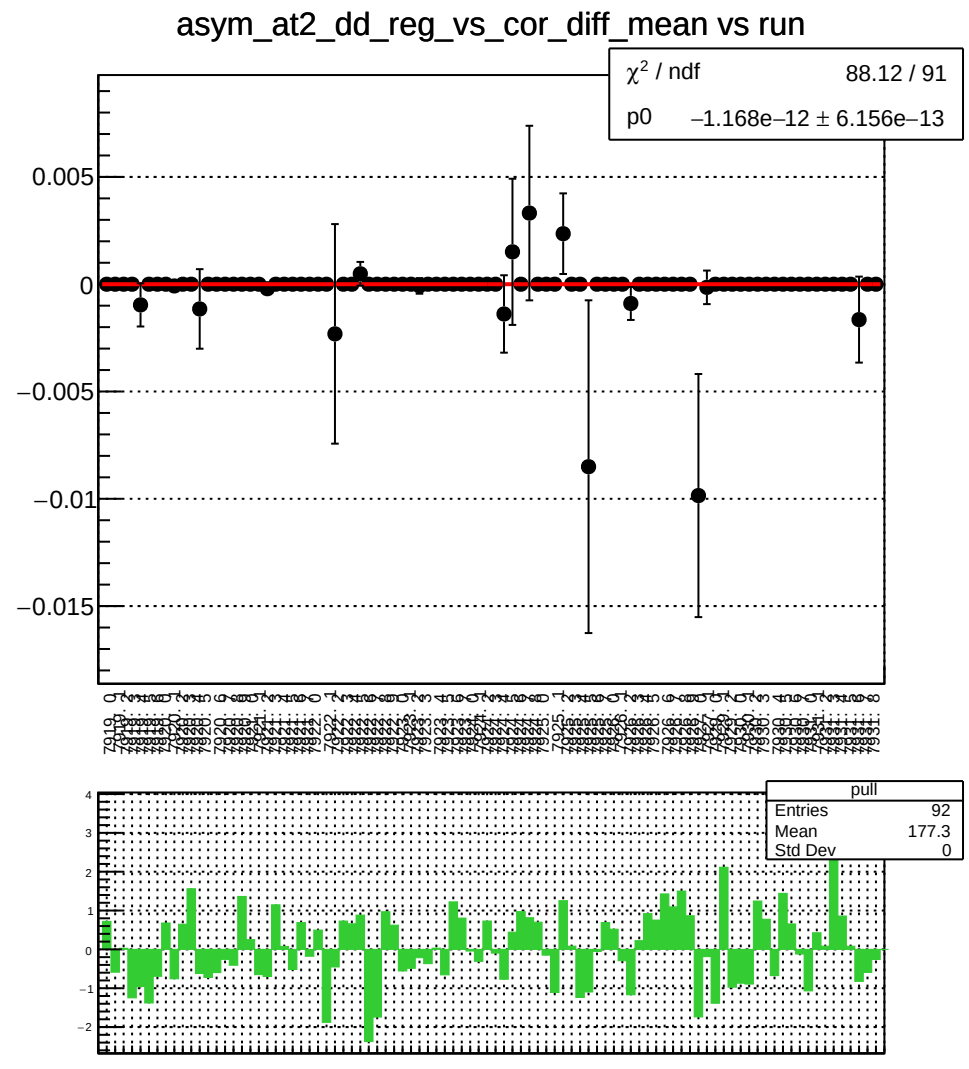

pull1D
Entries 92
Mean −0.001832
Std Dev 1.063
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

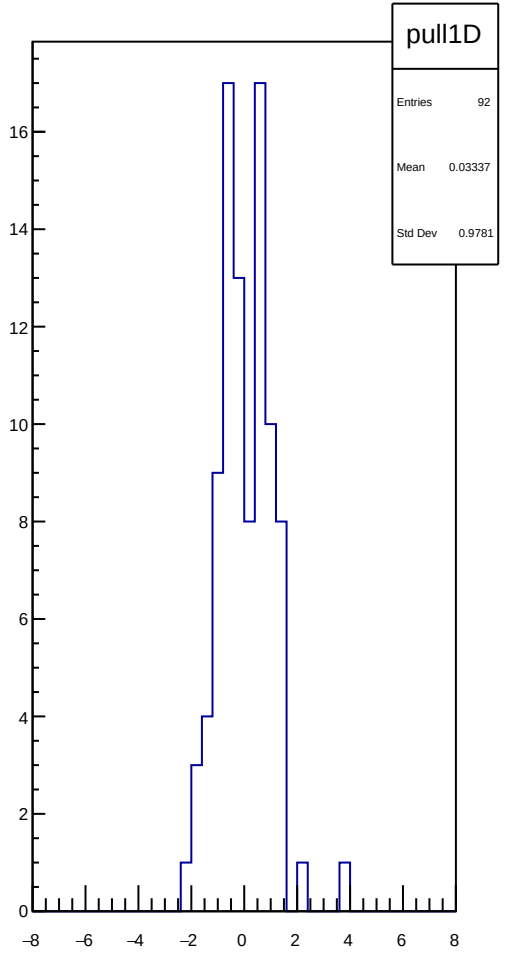

asym_at2_dd_eigen_dit_correction_rms vs run
χ² / ndf 4871 / 91
p0 3043 ± 2.282
3600
3400
3200
3000
2800
2600

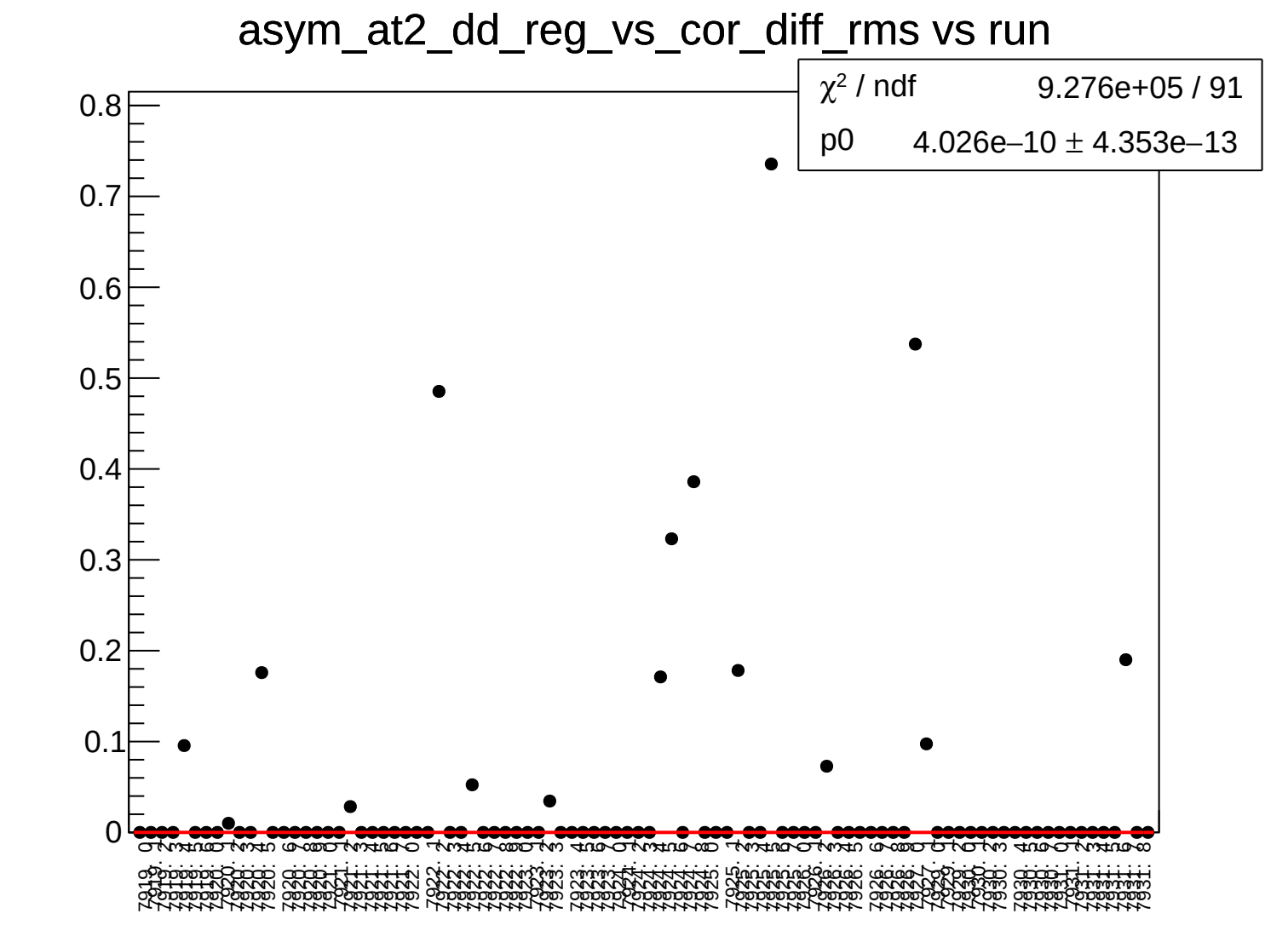

asym_at2_dd_mean vs run
×10^3
χ² / ndf 97.48 / 91
p0 −4189 ± 3675
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean −1104
Std Dev 0
3
2
1
0
−1
−2

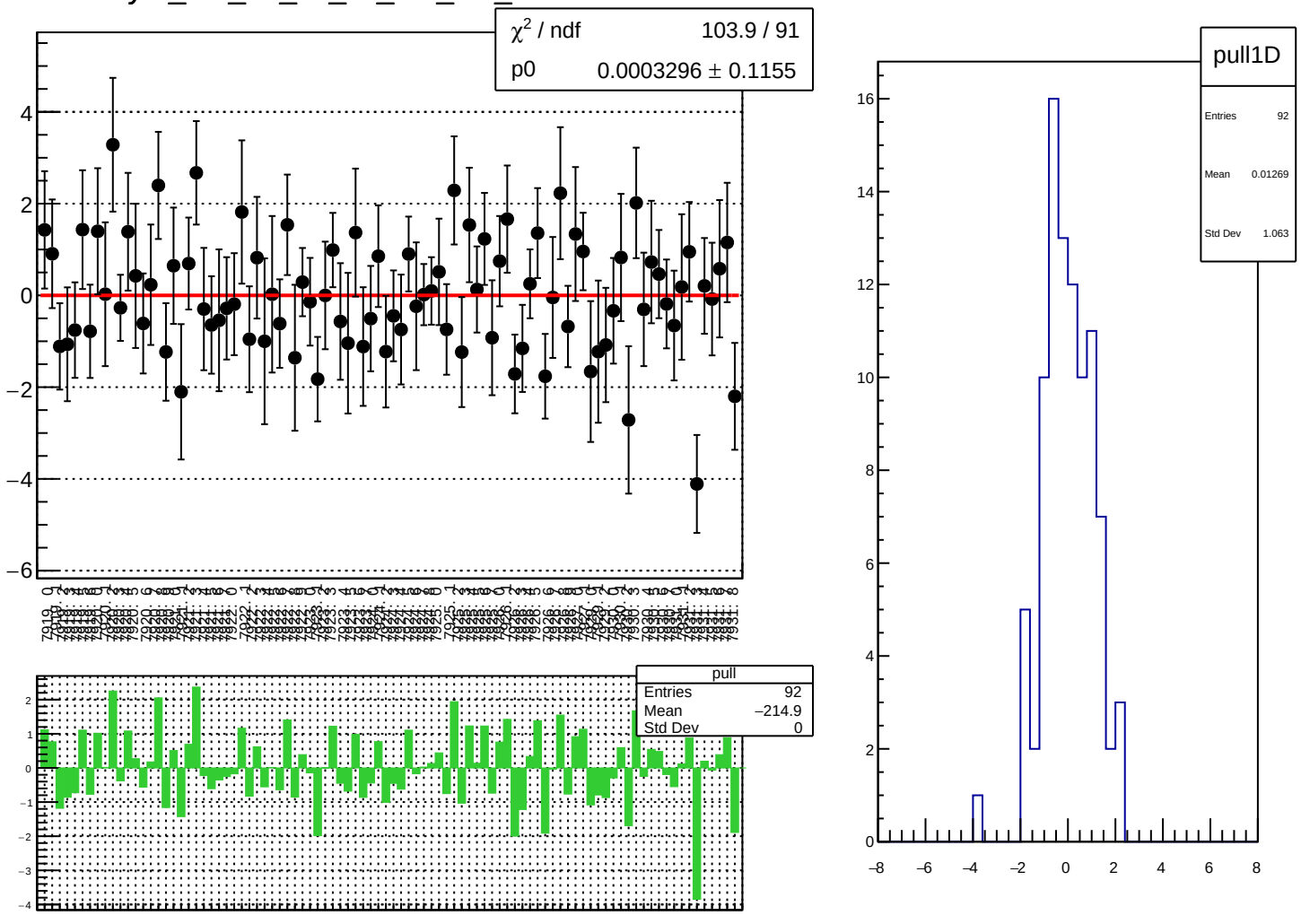

pull1D
Entries 92
Mean −0.002814
Std Dev 1.029
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

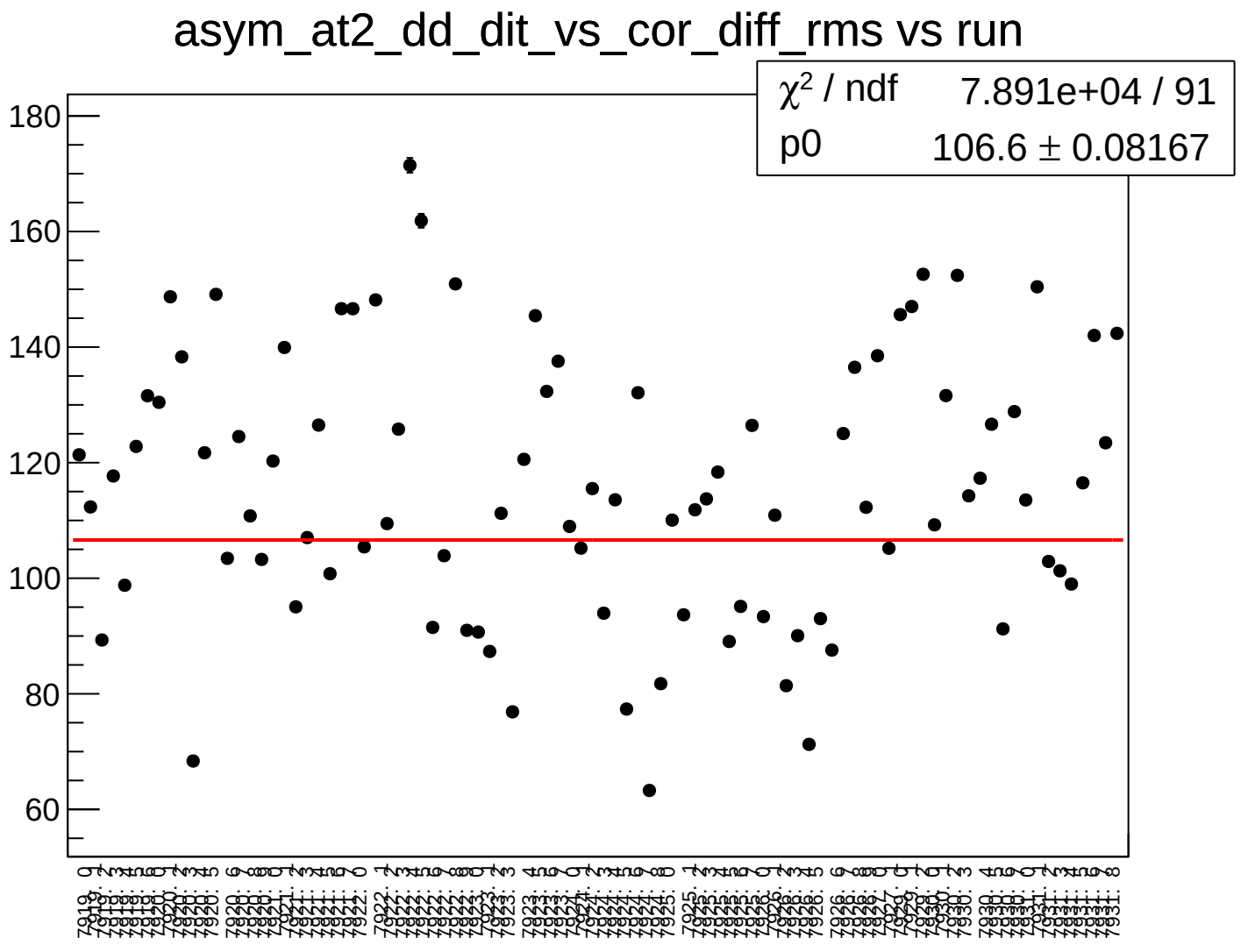

asym_at2_dd_rms vs run
χ² / ndf 2508 / 91
p0 3467 ± 2.599
4000
3800
3600
3400
3200

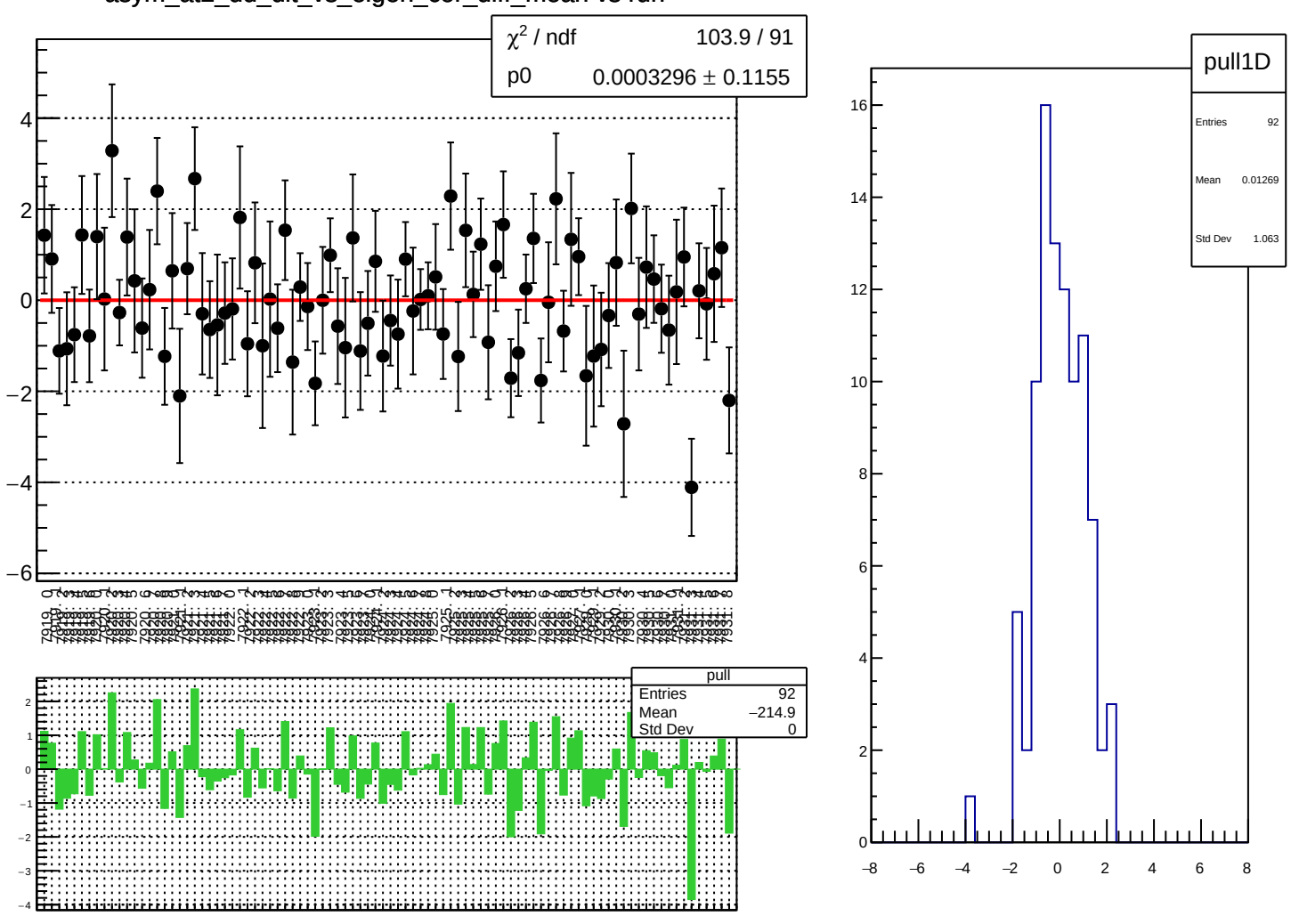

asym_at2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 88.12 / 91
p0 −1.168e−12 ± 6.156e−13
0.005
0
−0.005
−0.01
−0.015
pull
Entries 92
Mean 177.3
Std Dev 0

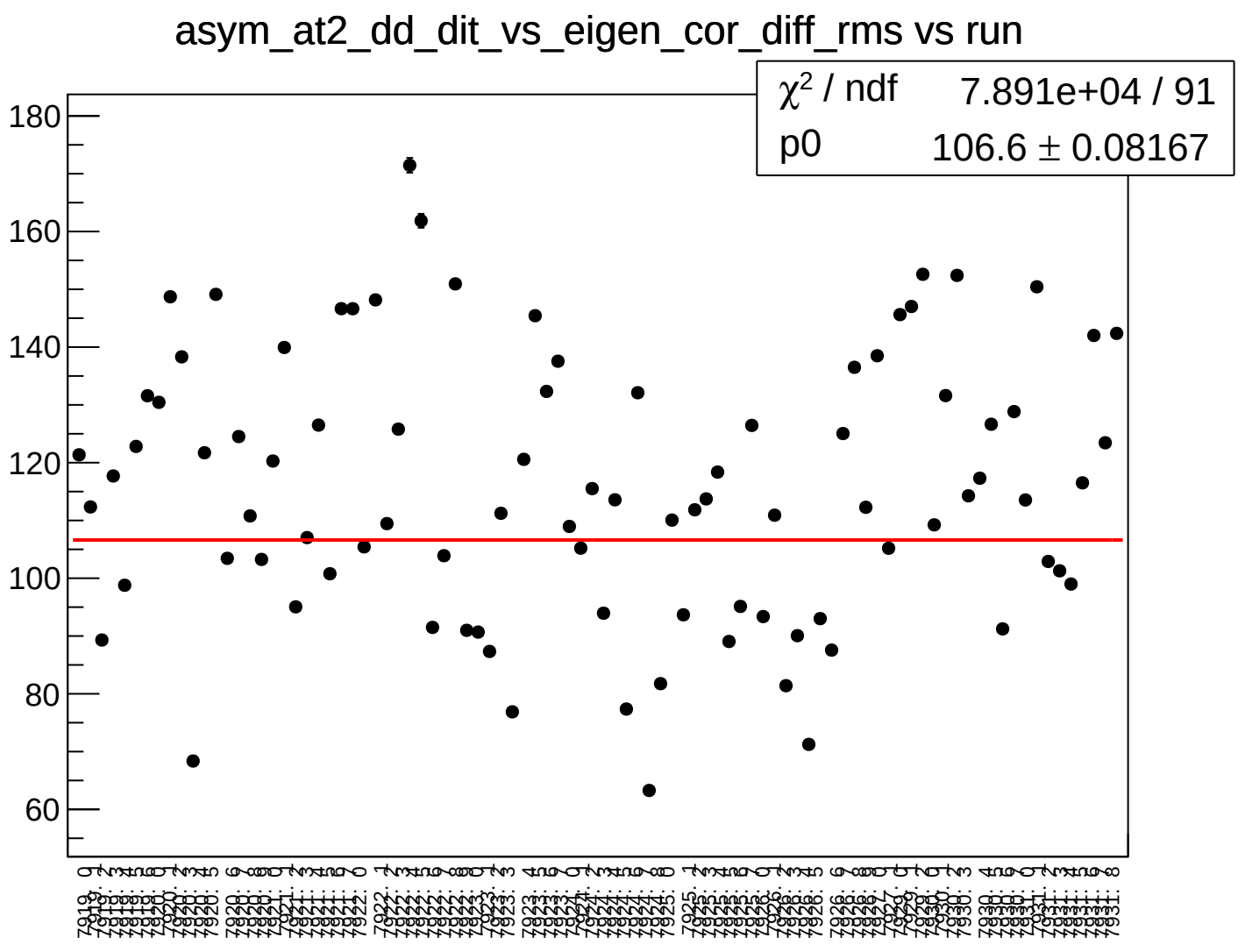

pull1D
Entries 92
Mean 0.03337
Std Dev 0.9781
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

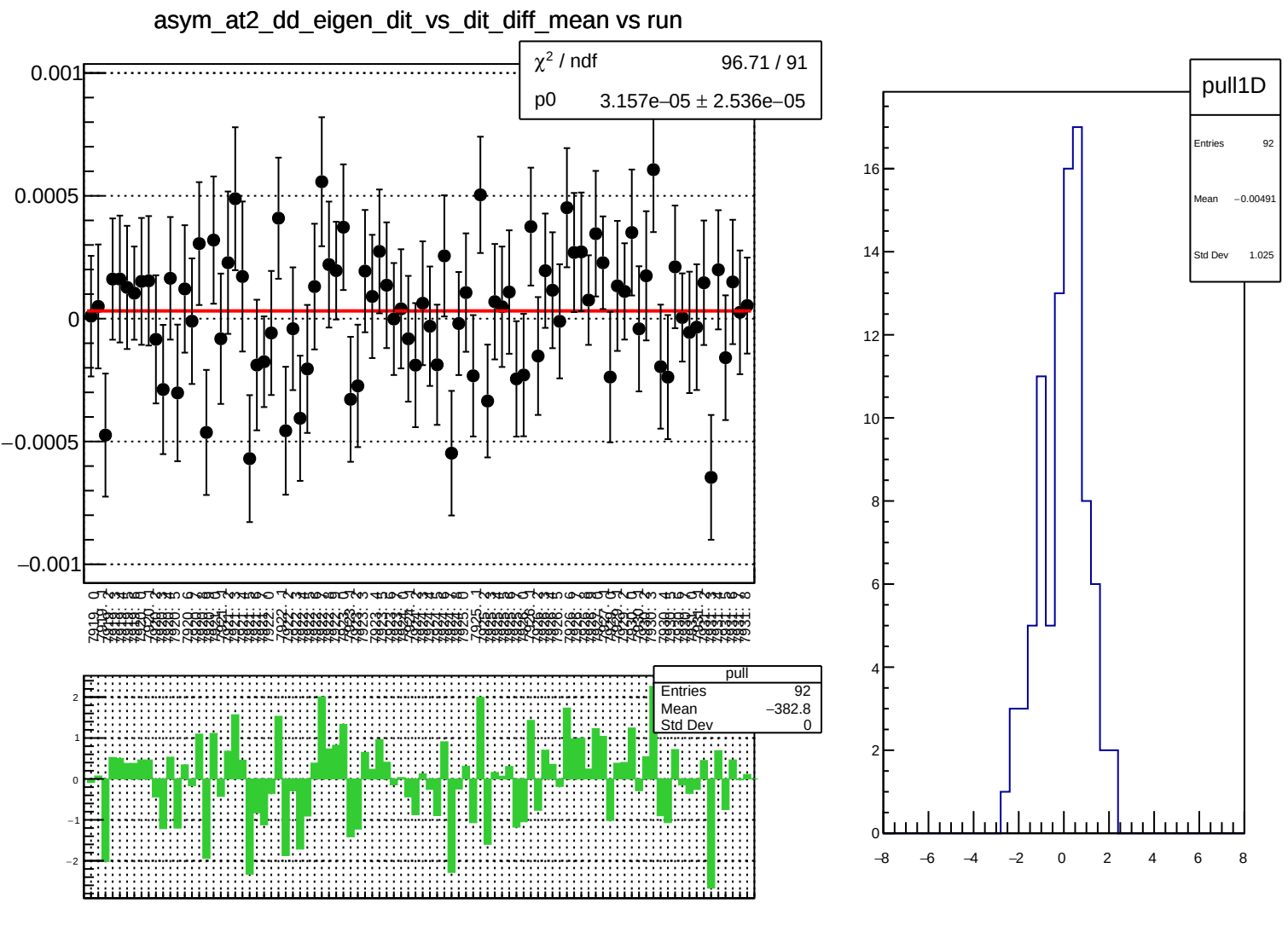

asym_at2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.276e+05 / 91
p0 4.026e−10 ± 4.353e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

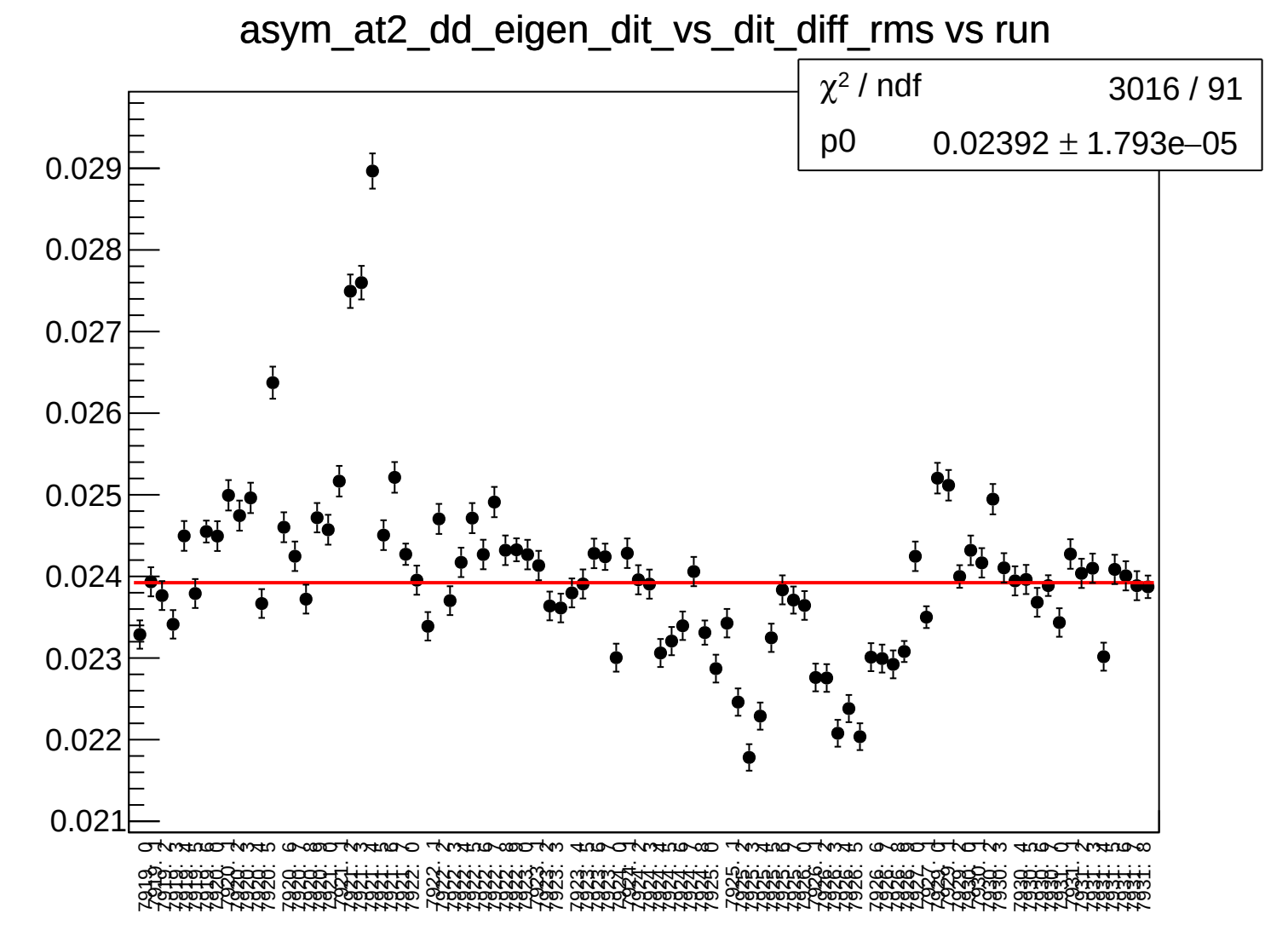

asym_at2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 103.9 / 91
p0 0.0003296 ± 0.1155
pull
Entries 92
Mean −214.9
Std Dev 0
pull1D
Entries 92
Mean 0.01269
Std Dev 1.063

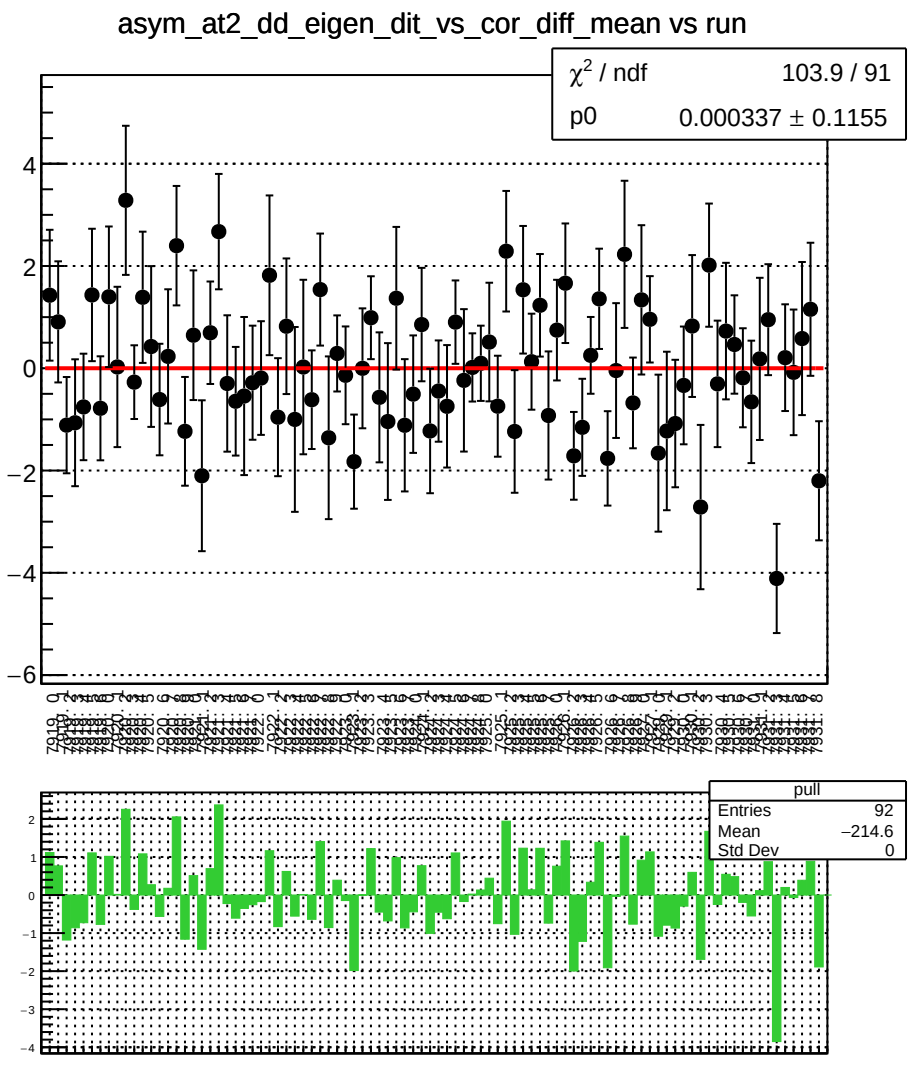

asym_at2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7.891e+04 / 91
p0 106.6 ± 0.08167
180
160
140
120
100
80
60

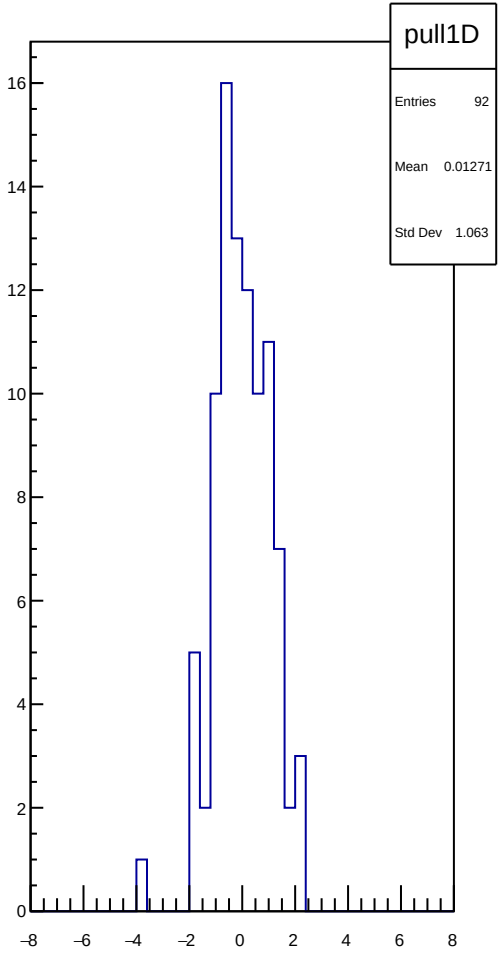

asym_at2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.9 / 91
p0 0.0003296 ± 0.1155
pull
Entries 92
Mean −214.9
Std Dev 0
pull1D
Entries 92
Mean 0.01269
Std Dev 1.063

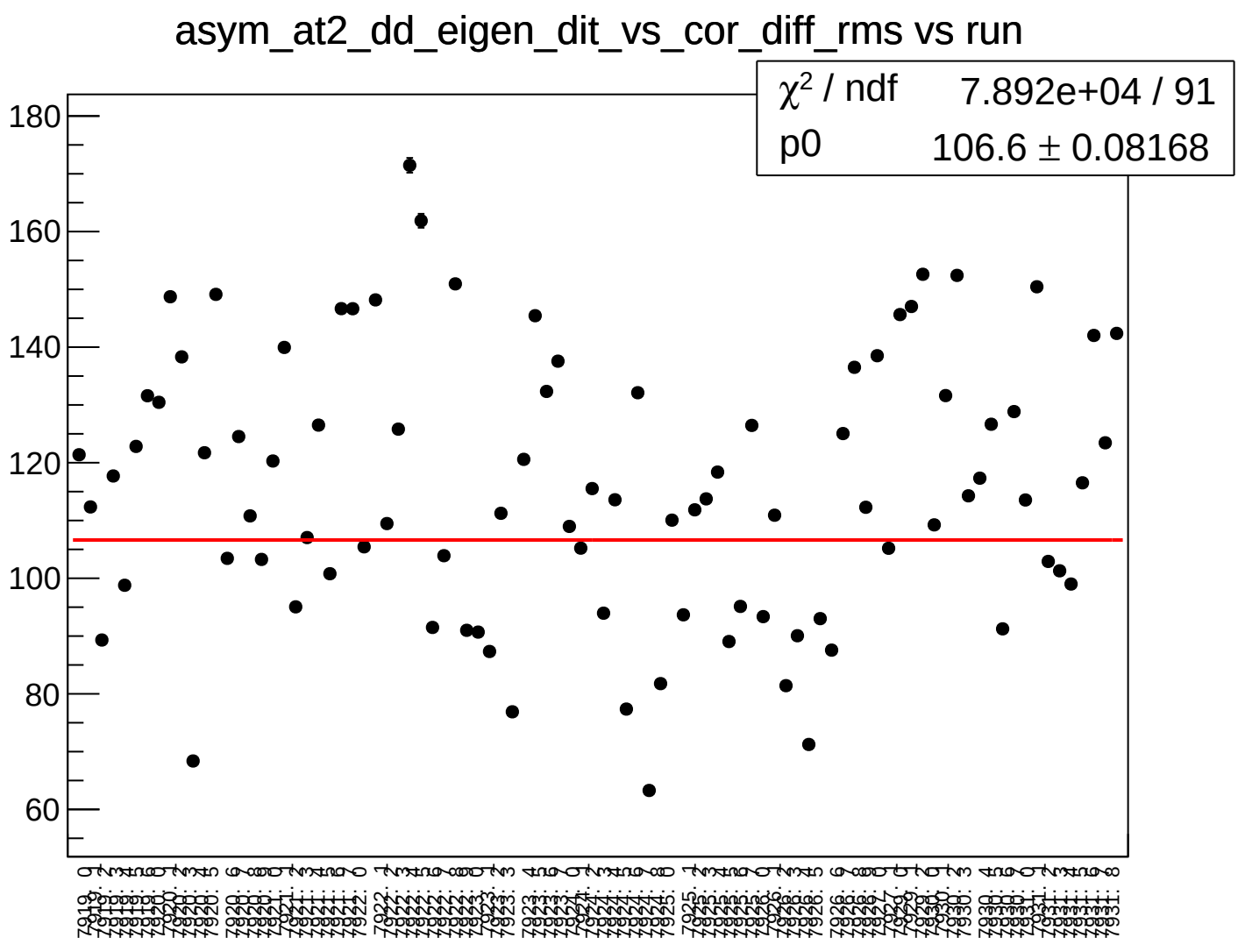

asym_at2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.891e+04 / 91
p0 106.6 ± 0.08167
180
160
140
120
100
80
60

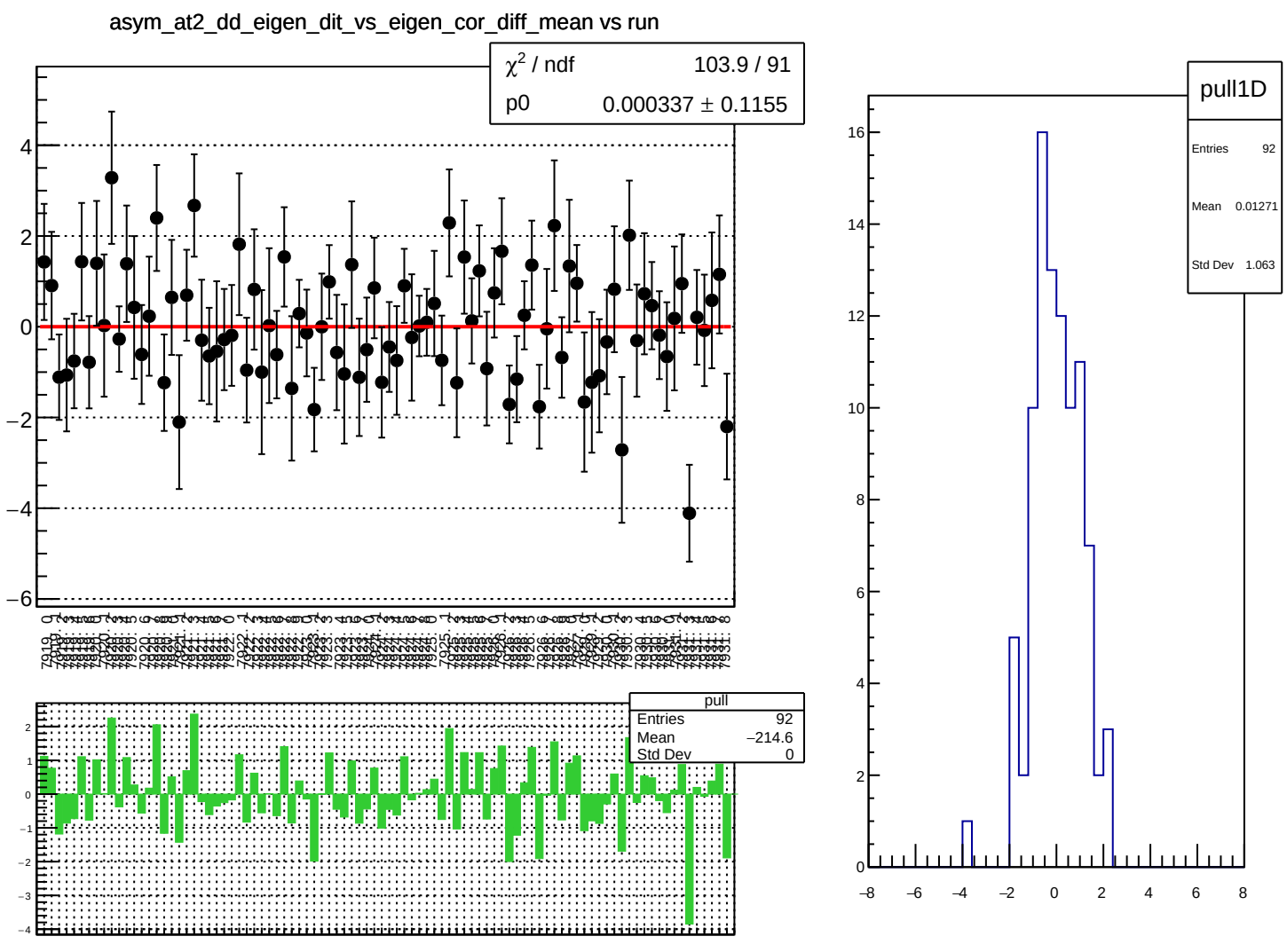

asym_at2_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 96.71 / 91
p0 3.157e−05 ± 2.536e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 92
Mean −382.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.00491
Std Dev 1.025
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

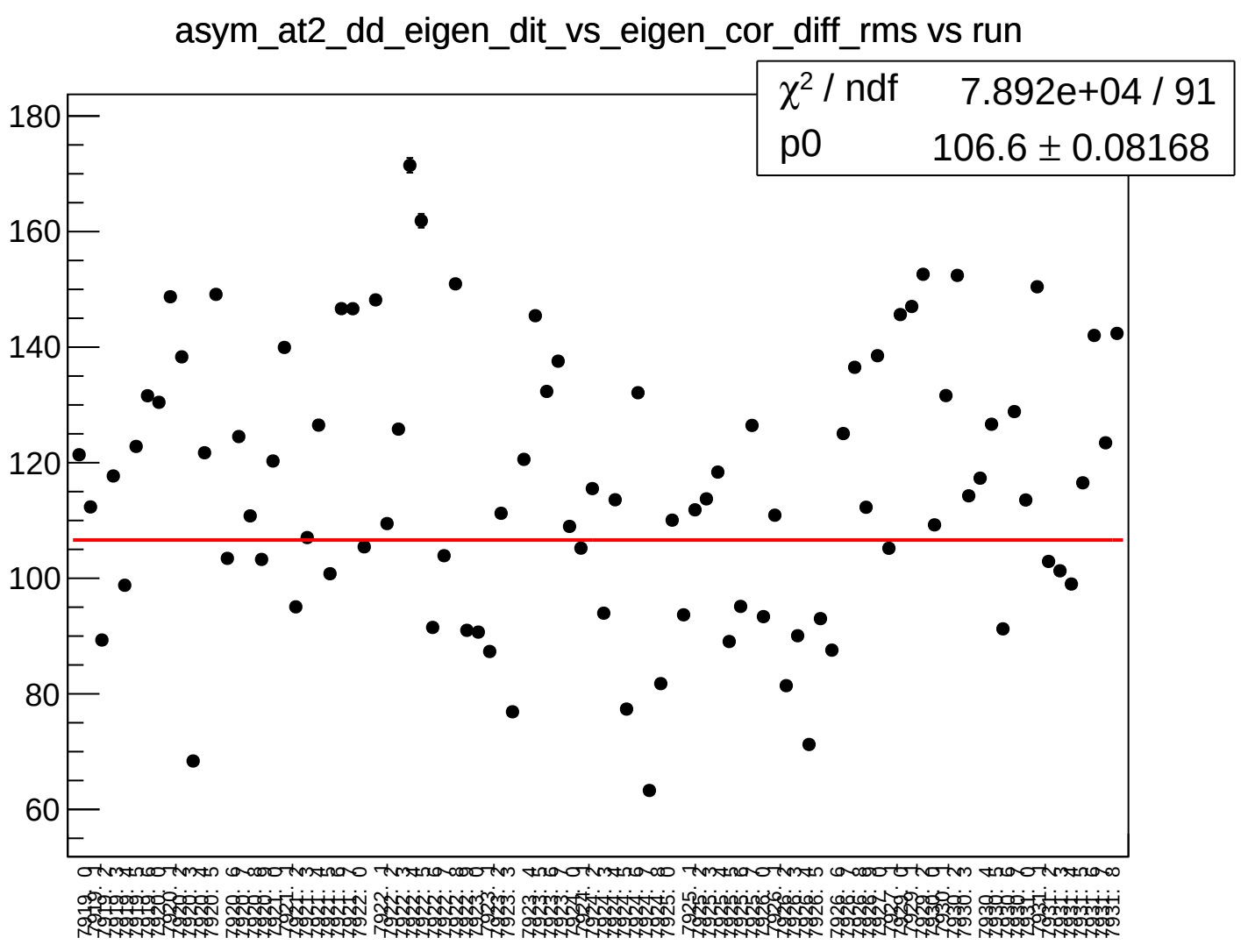

asym_at2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3016 / 91
p0 0.02392 ± 1.793e−05
0.029
0.028
0.027
0.026
0.025
0.024
0.023
0.022
0.021

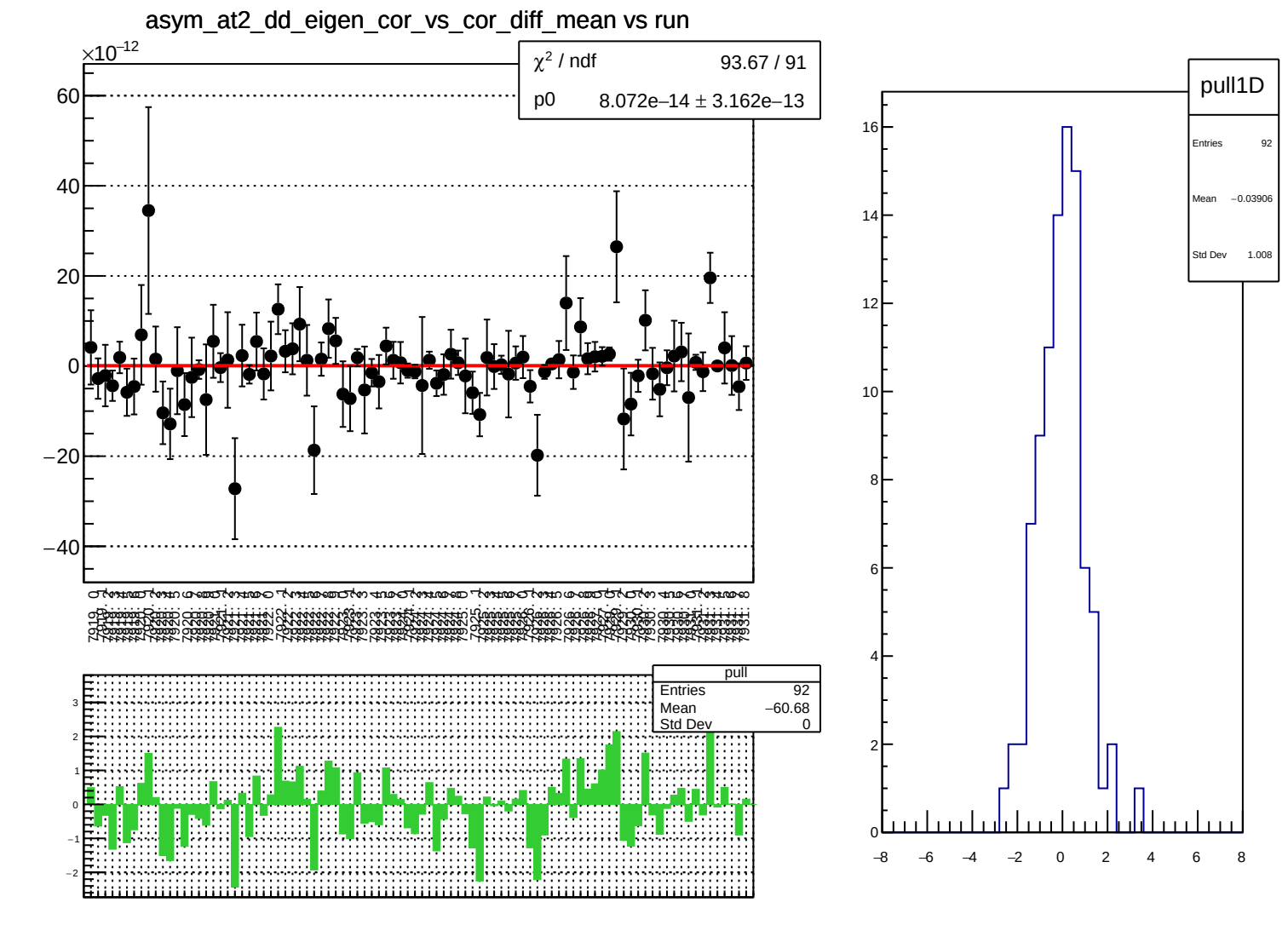

asym_at2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 103.9 / 91
p0 0.000337 ± 0.1155
pull
Entries 92
Mean −214.6
Std Dev 0

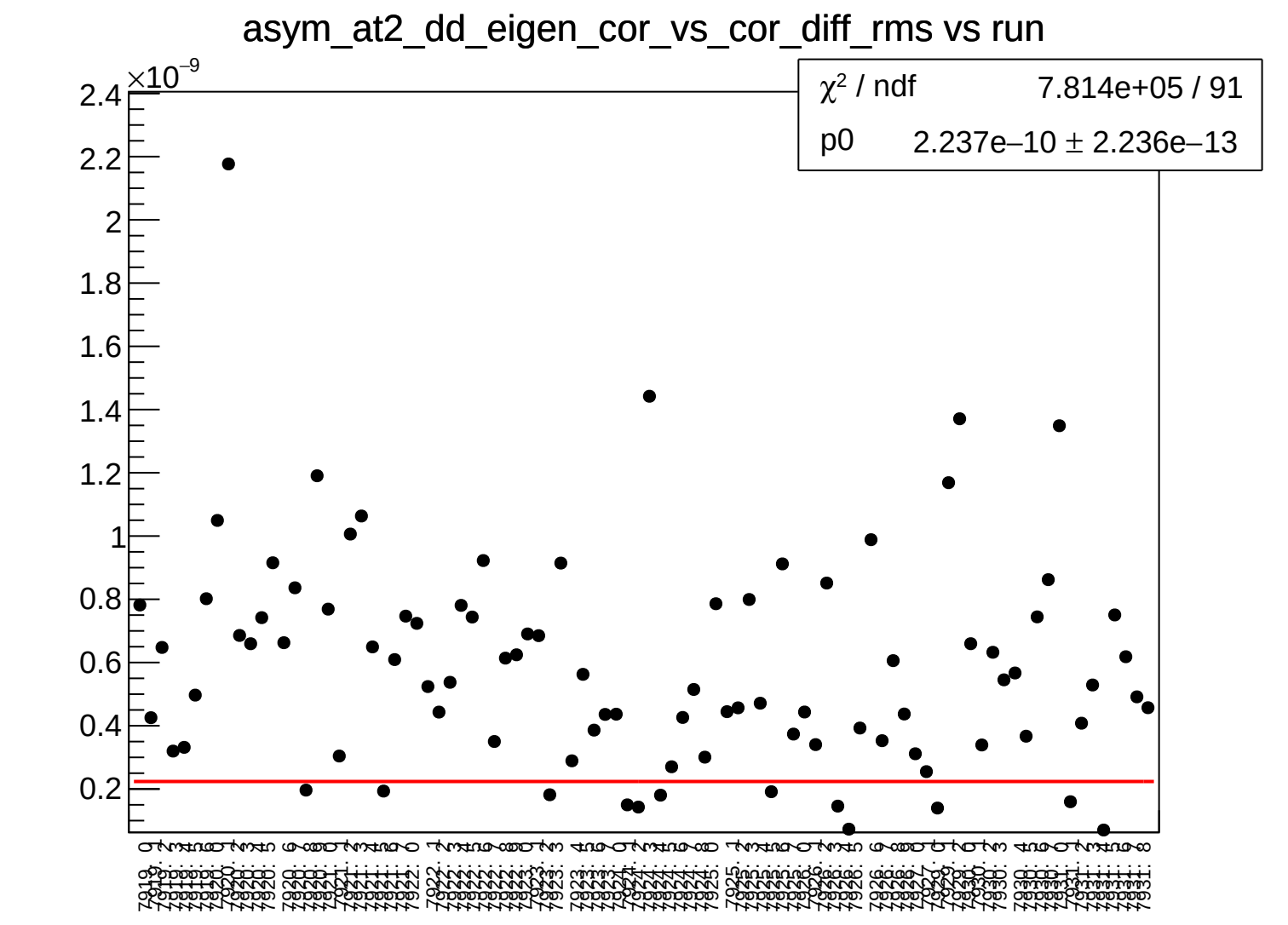

pull1D
Entries 92
Mean 0.01271
Std Dev 1.063

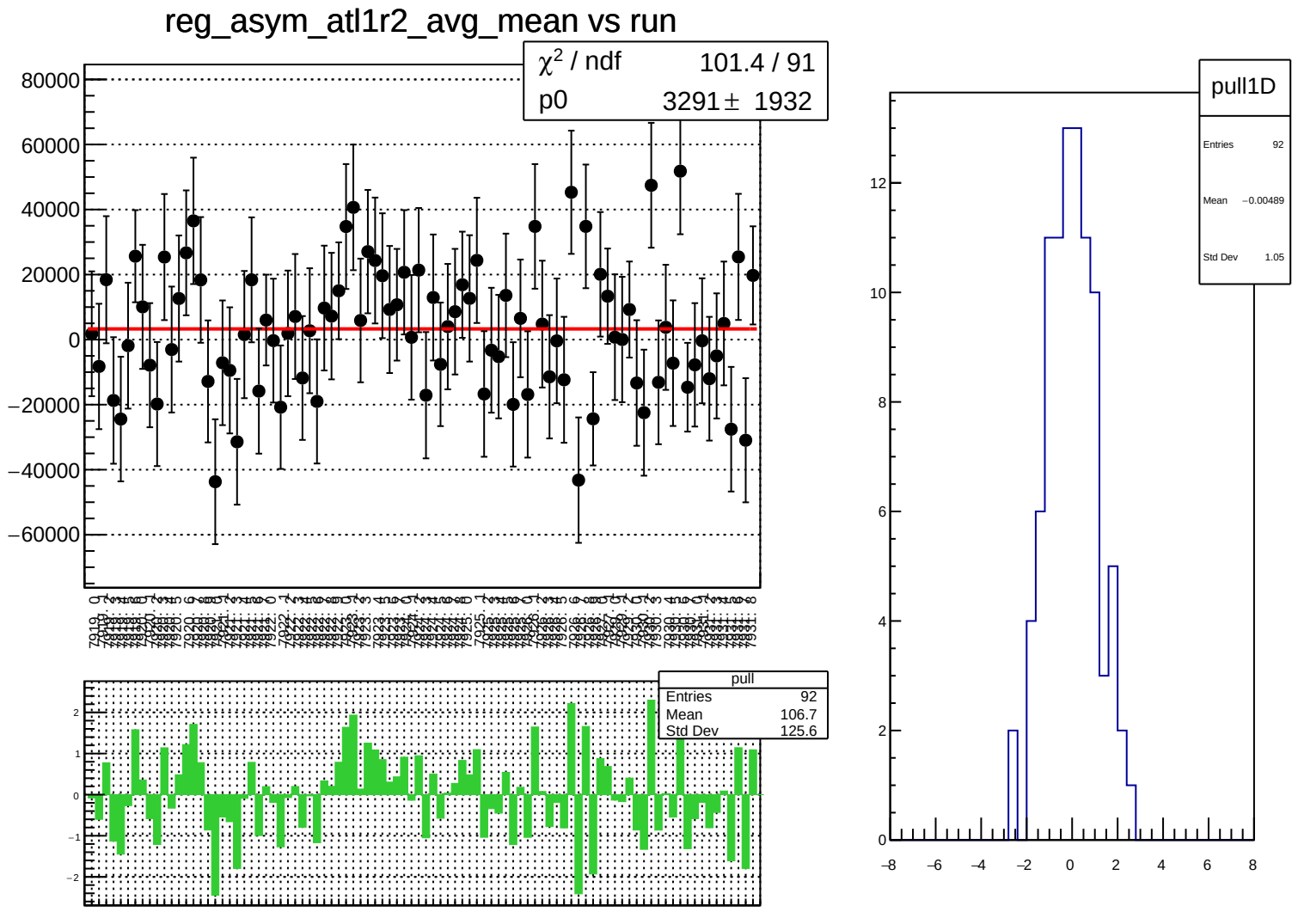

asym_at2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.892e+04 / 91
p0 106.6 ± 0.08168
180
160
140
120
100
80
60

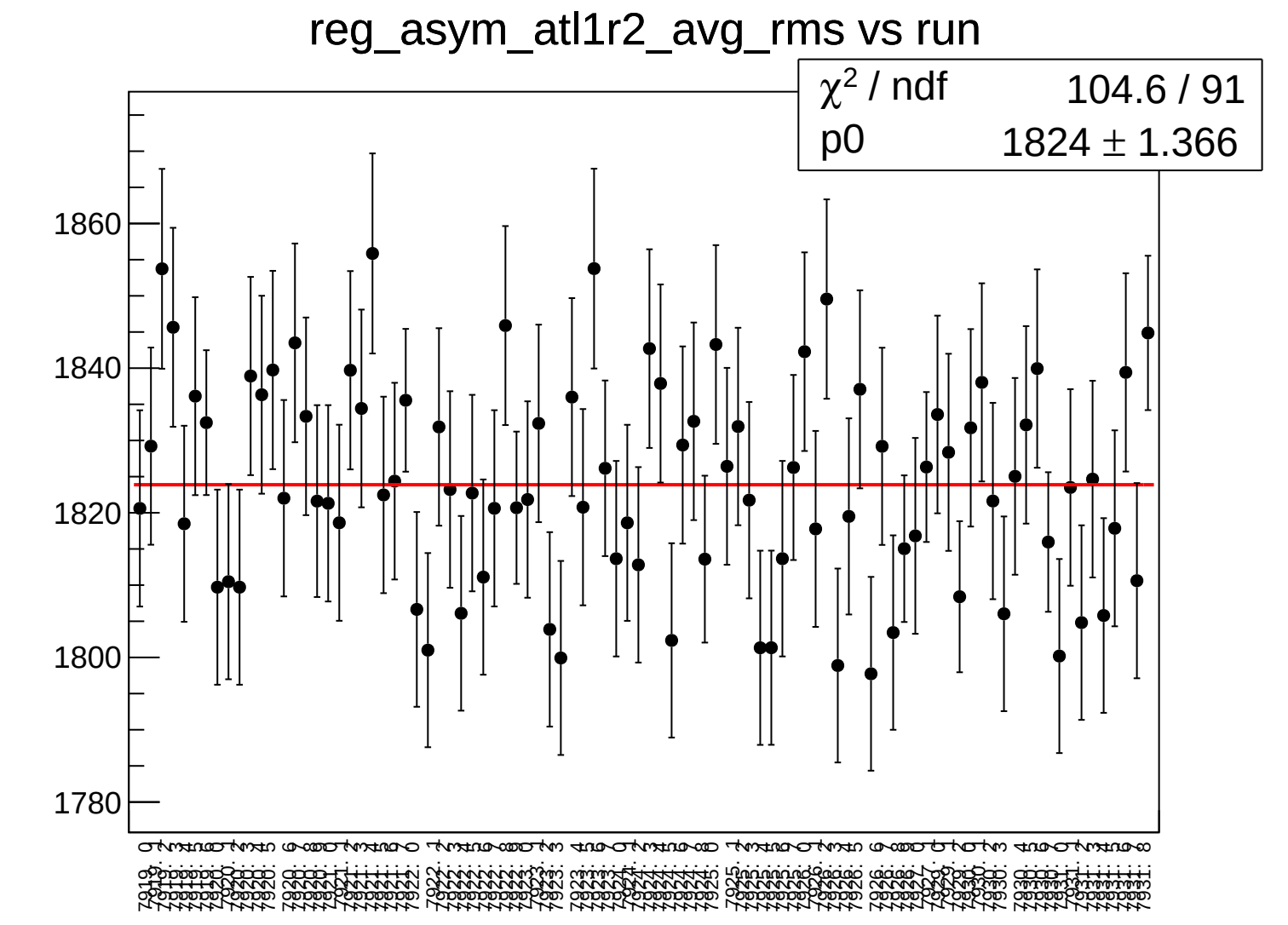

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.9 / 91
p0 0.000337 ± 0.1155
pull
Entries 92
Mean −214.6
Std Dev 0
pull1D
Entries 92
Mean 0.01271
Std Dev 1.063

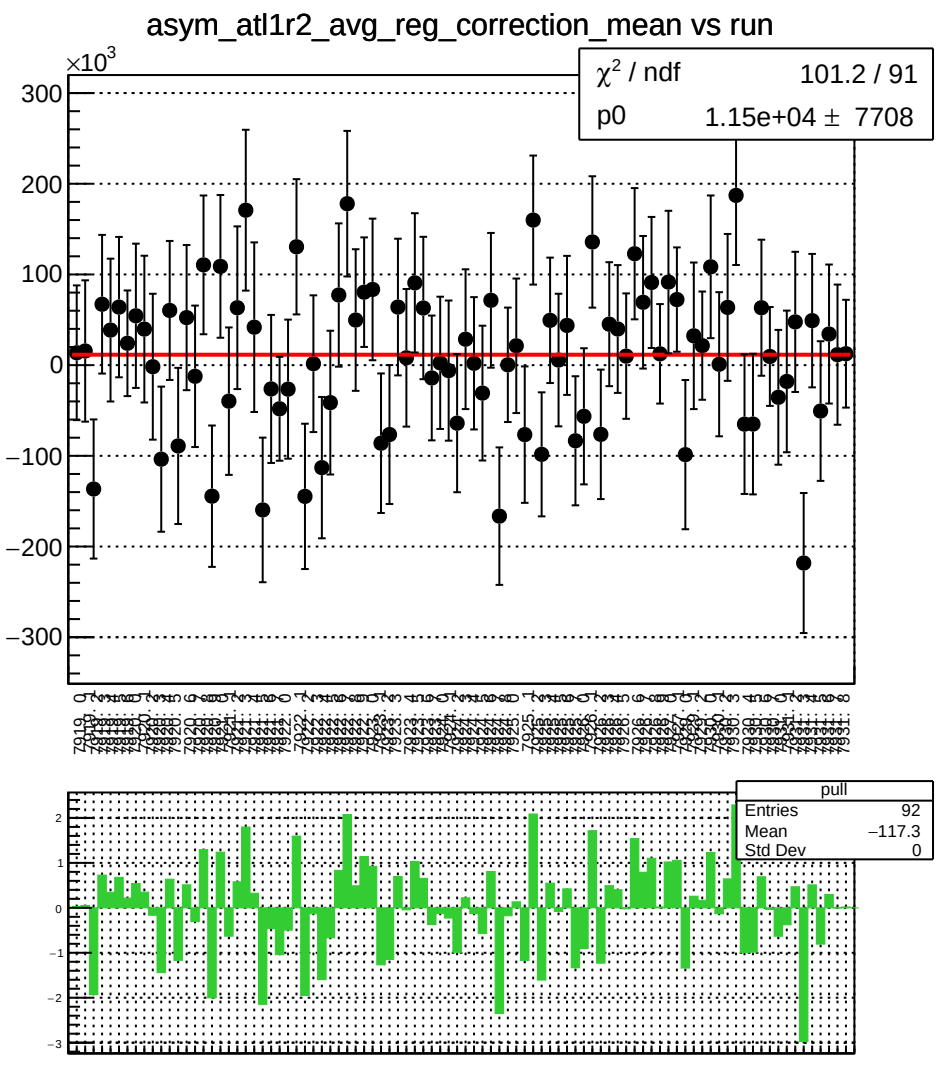

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.892e+04 / 91
p0 106.6 ± 0.08168
180
160
140
120
100
80
60

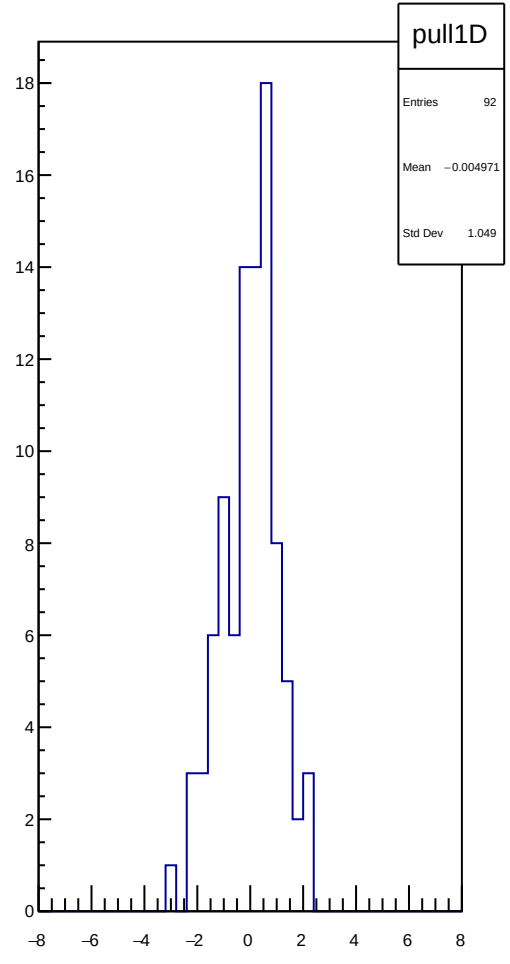

asym_at2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.67 / 91
p0 8.072e−14 ± 3.162e−13
60
40
20
0
−20
−40
pull
Entries 92
Mean −60.68
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.03906
Std Dev 1.008
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

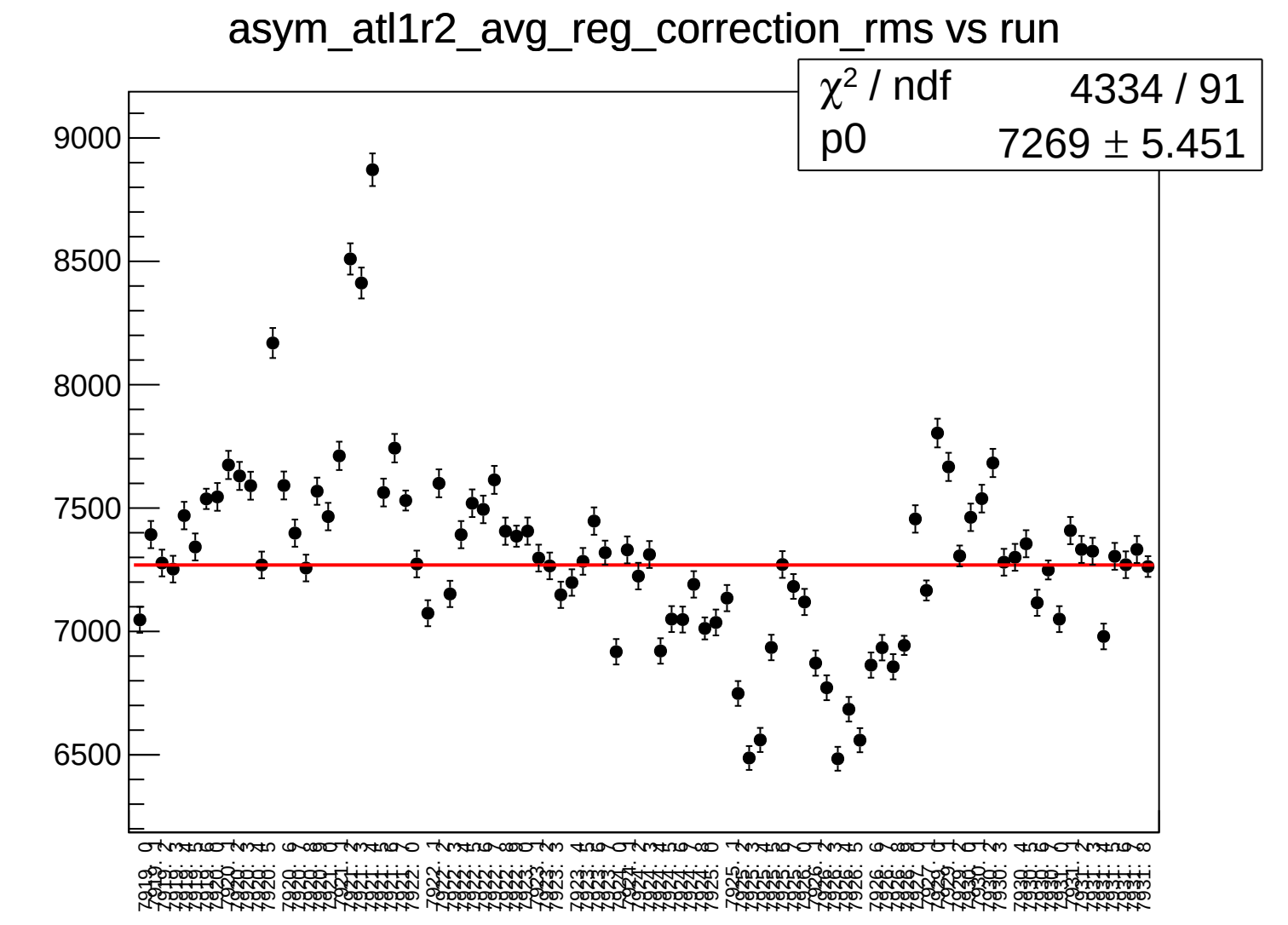

asym_at2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.814e+05 / 91
p0 2.237e−10 ± 2.236e−13
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

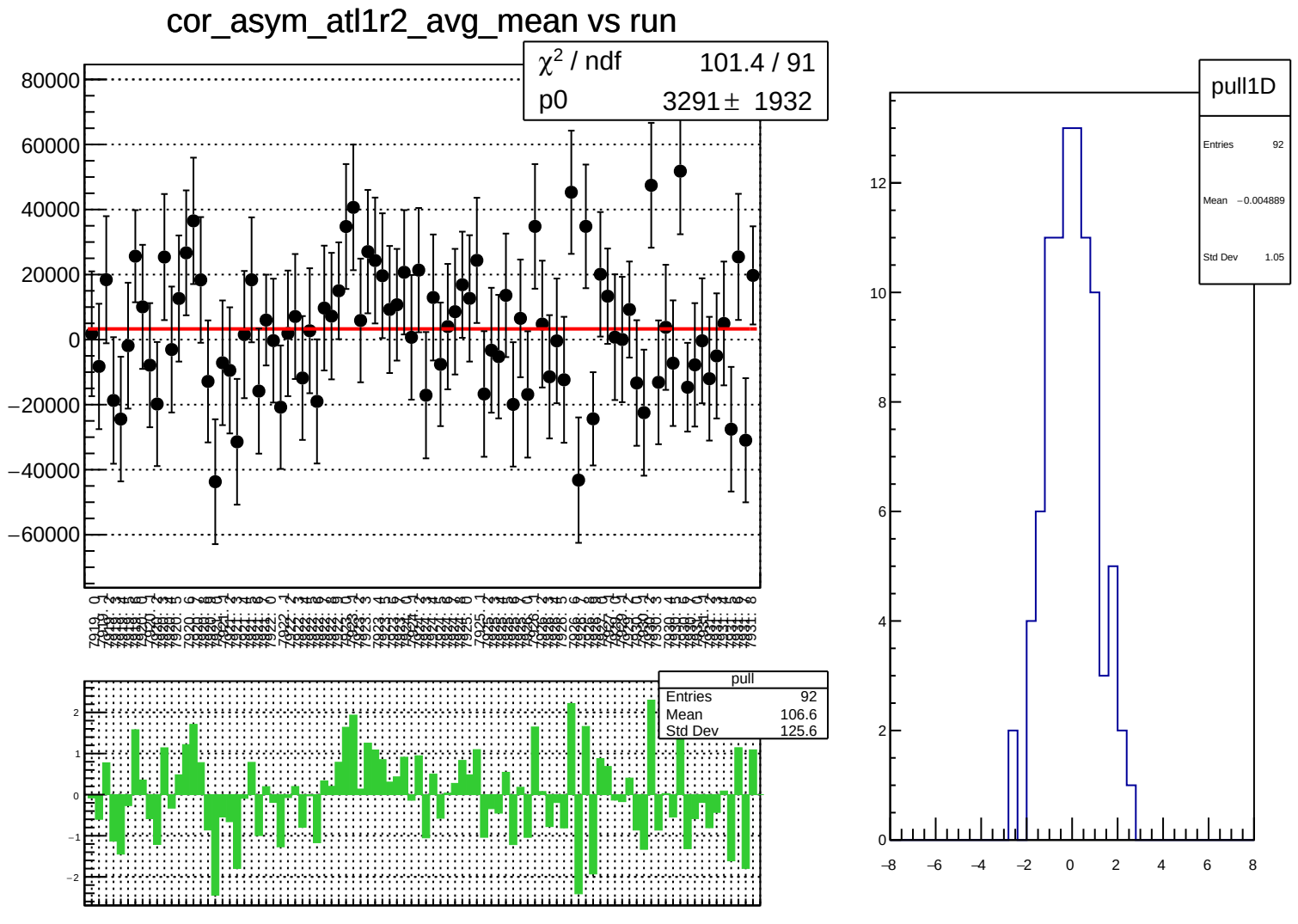

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 101.4 / 91
p0 3291 ± 1932
pull
Entries 92
Mean 106.7
Std Dev 125.6
pull1D
Entries 92
Mean −0.00489
Std Dev 1.05

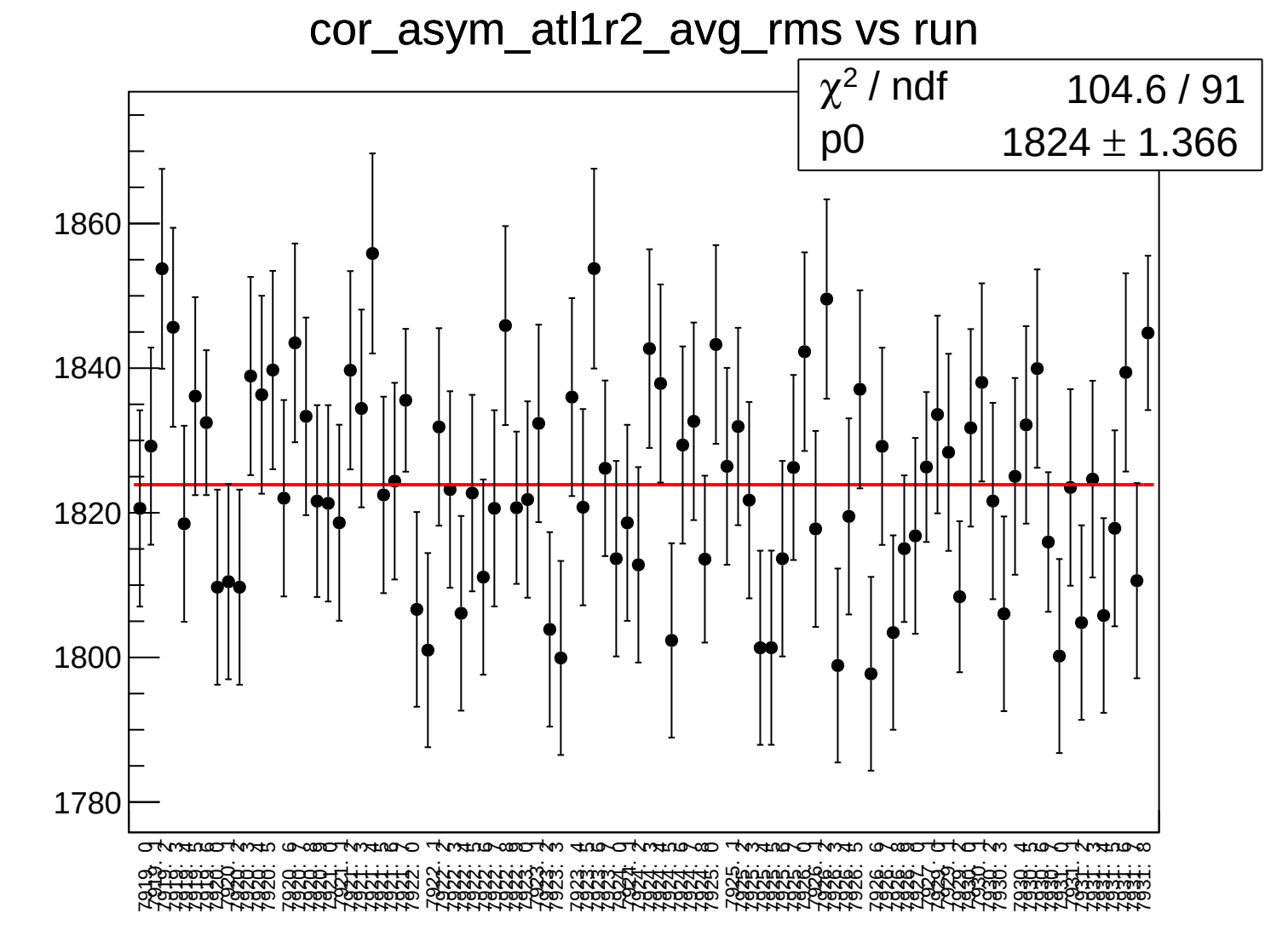

reg_asym_atl1r2_avg_rms vs run
χ^2 / ndf 104.6 / 91
p0 1824 ± 1.366
1860
1840
1820
1800
1780

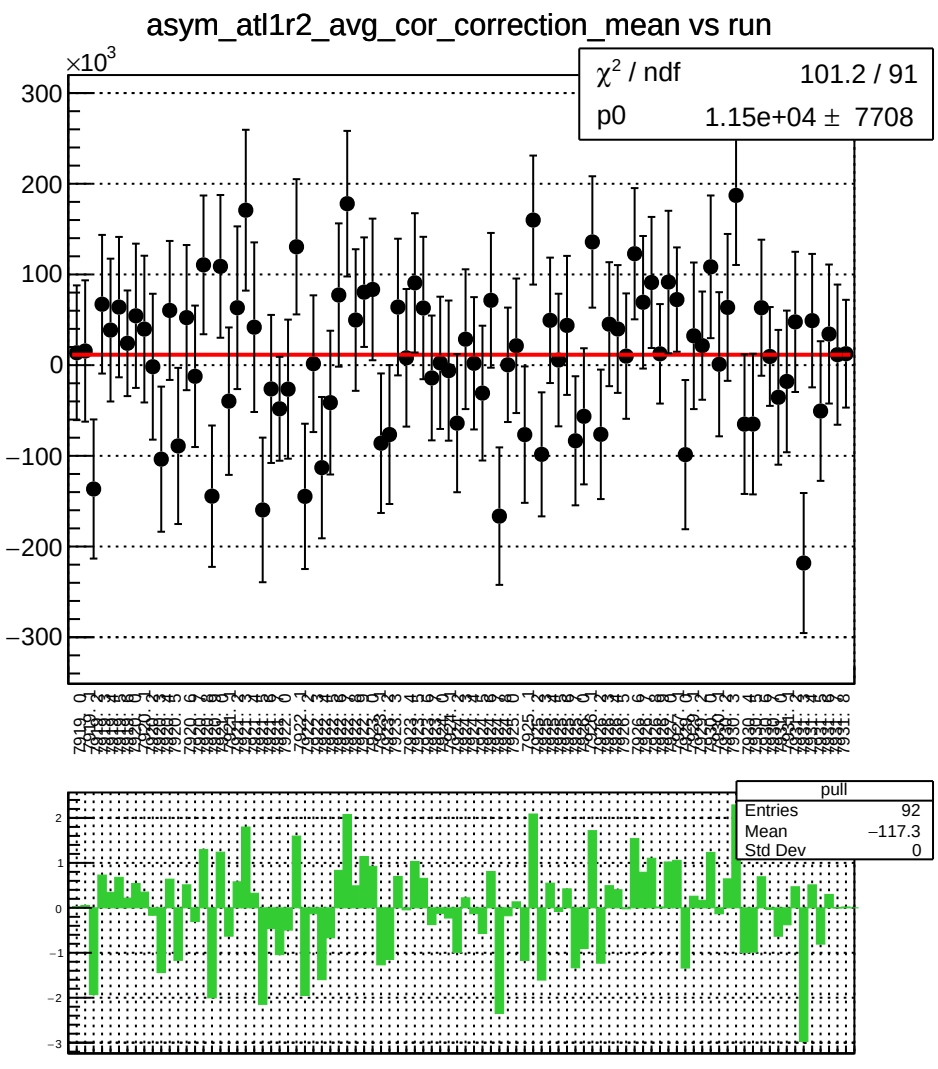

asym_atl1r2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 101.2 / 91
p0 1.15e+04 ± 7708
pull
Entries 92
Mean −117.3
Std Dev 0

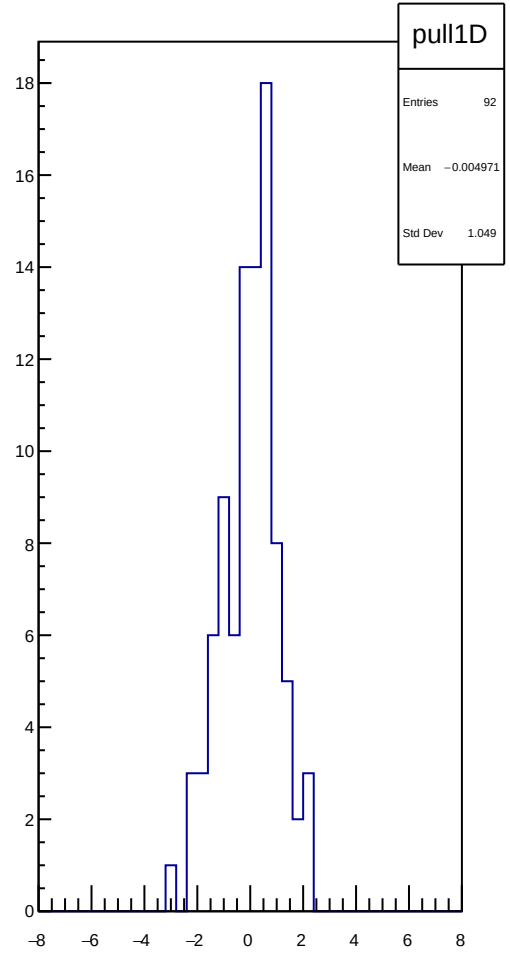

pull1D
Entries 92
Mean −0.004971
Std Dev 1.049

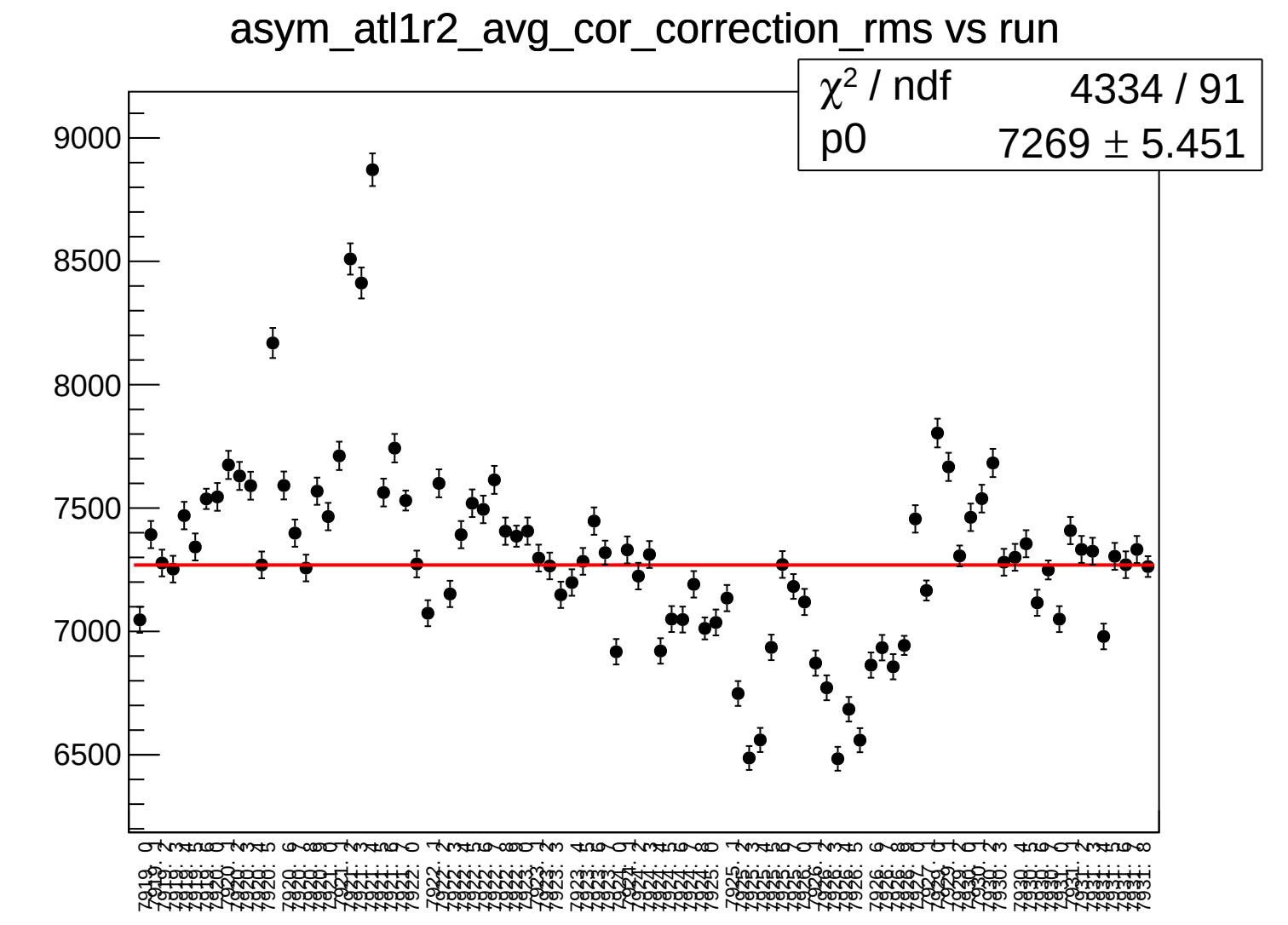

asym_atl1r2_avg_reg_correction_rms vs run
χ² / ndf 4334 / 91
p0 7269 ± 5.451
9000
8500
8000
7500
7000
6500

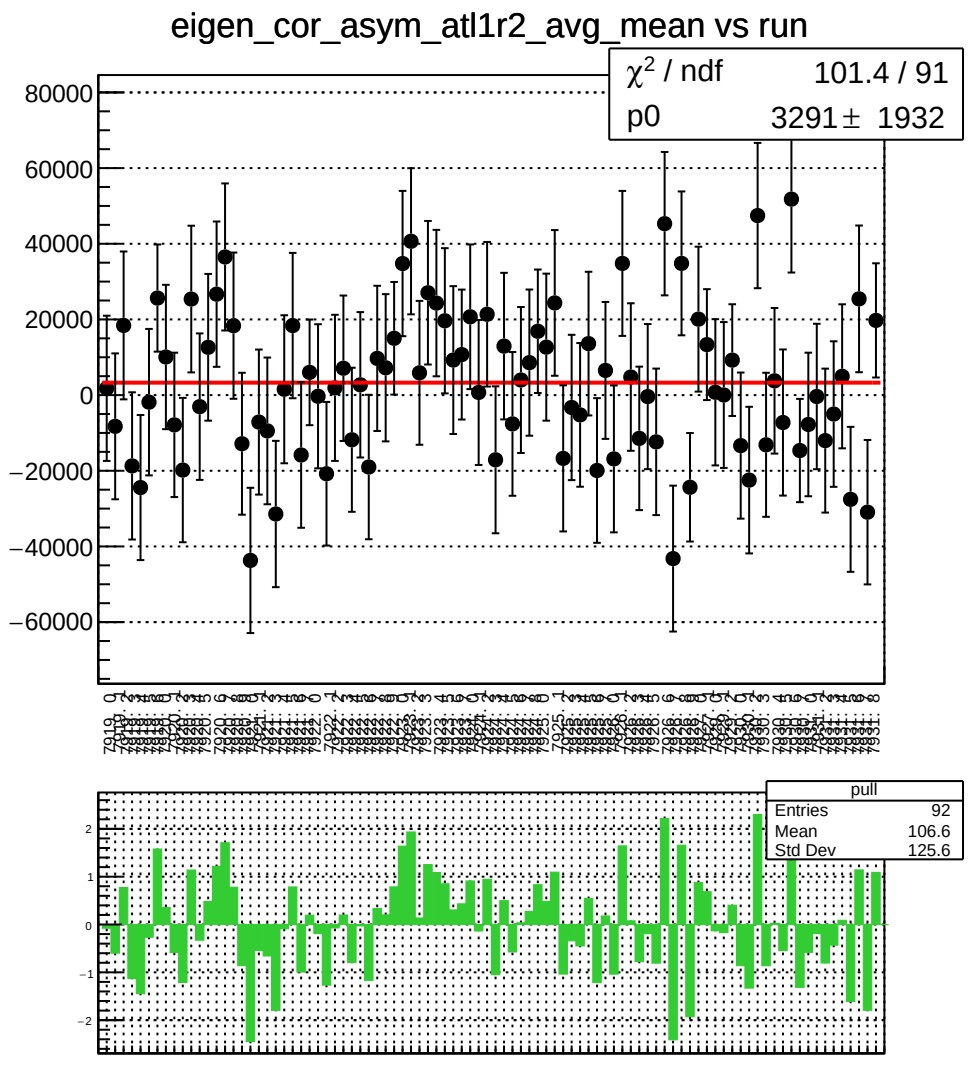

cor_asym_atl1r2_avg_mean vs run
χ² / ndf 101.4 / 91
p0 3291 ± 1932
pull
Entries 92
Mean 106.6
Std Dev 125.6
pull1D
Entries 92
Mean −0.004889
Std Dev 1.05

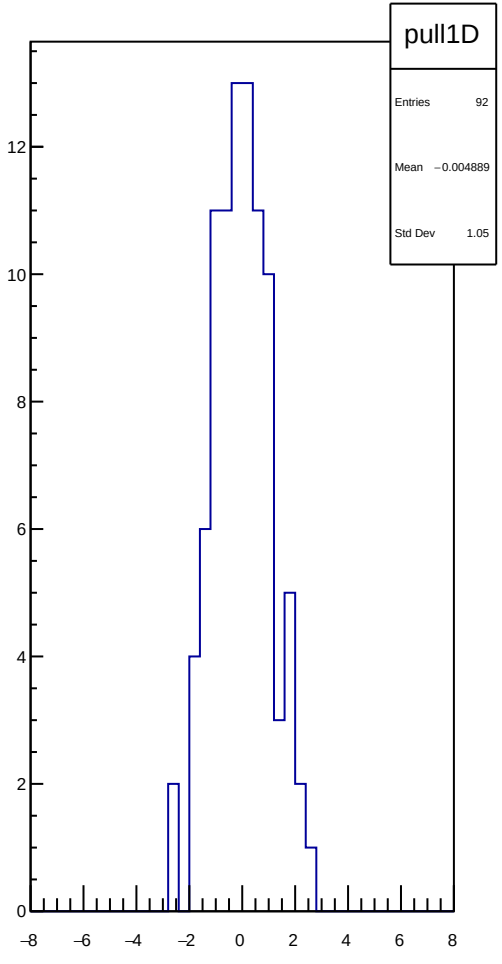

cor_asym_atl1r2_avg_rms vs run
χ^2 / ndf 104.6 / 91
p0 1824 ± 1.366
1860
1840
1820
1800
1780

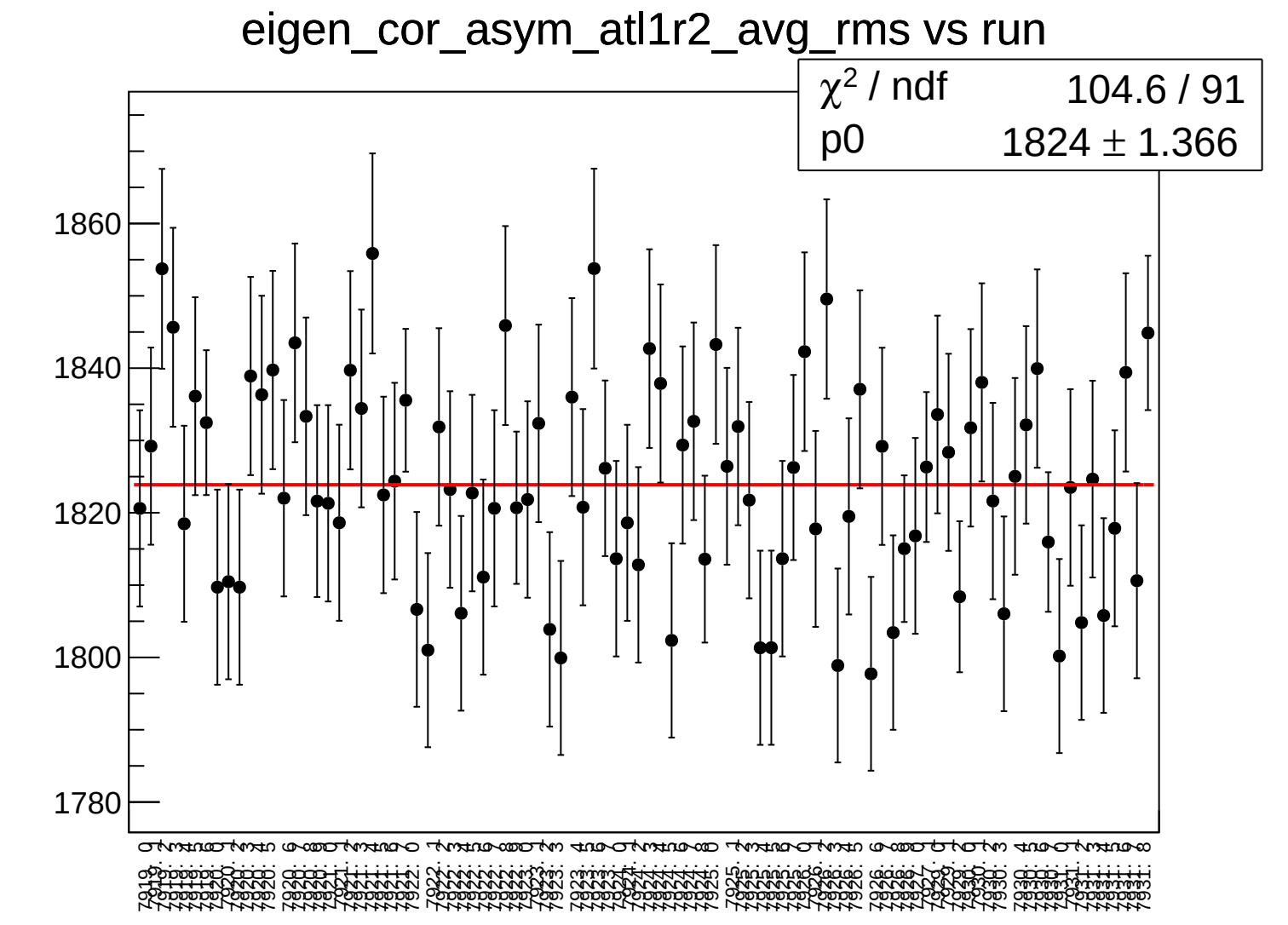

asym_atl1r2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 101.2 / 91
p0 1.15e+04 ± 7708
pull
Entries 92
Mean −117.3
Std Dev 0

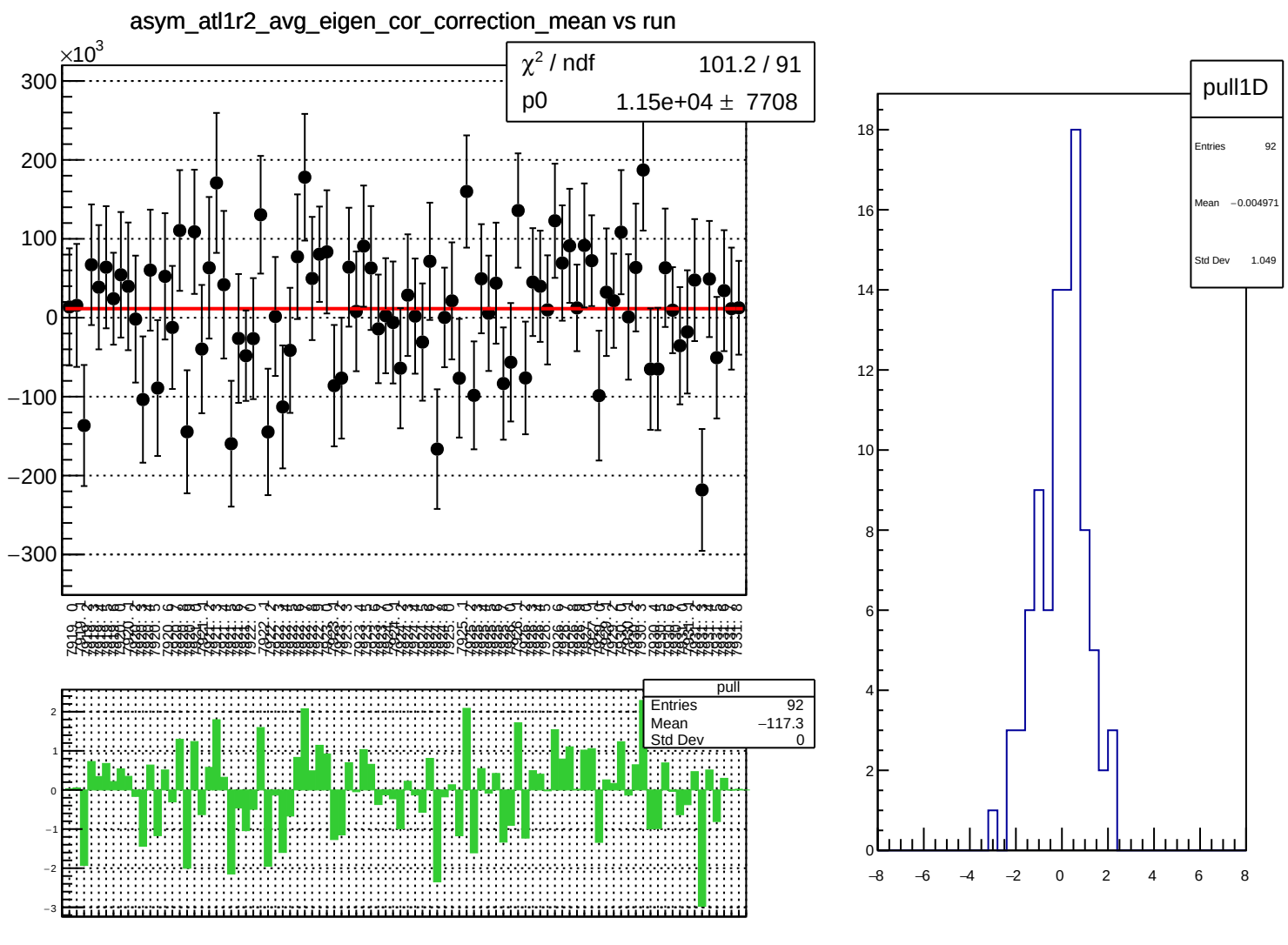

pull1D
Entries 92
Mean −0.004971
Std Dev 1.049

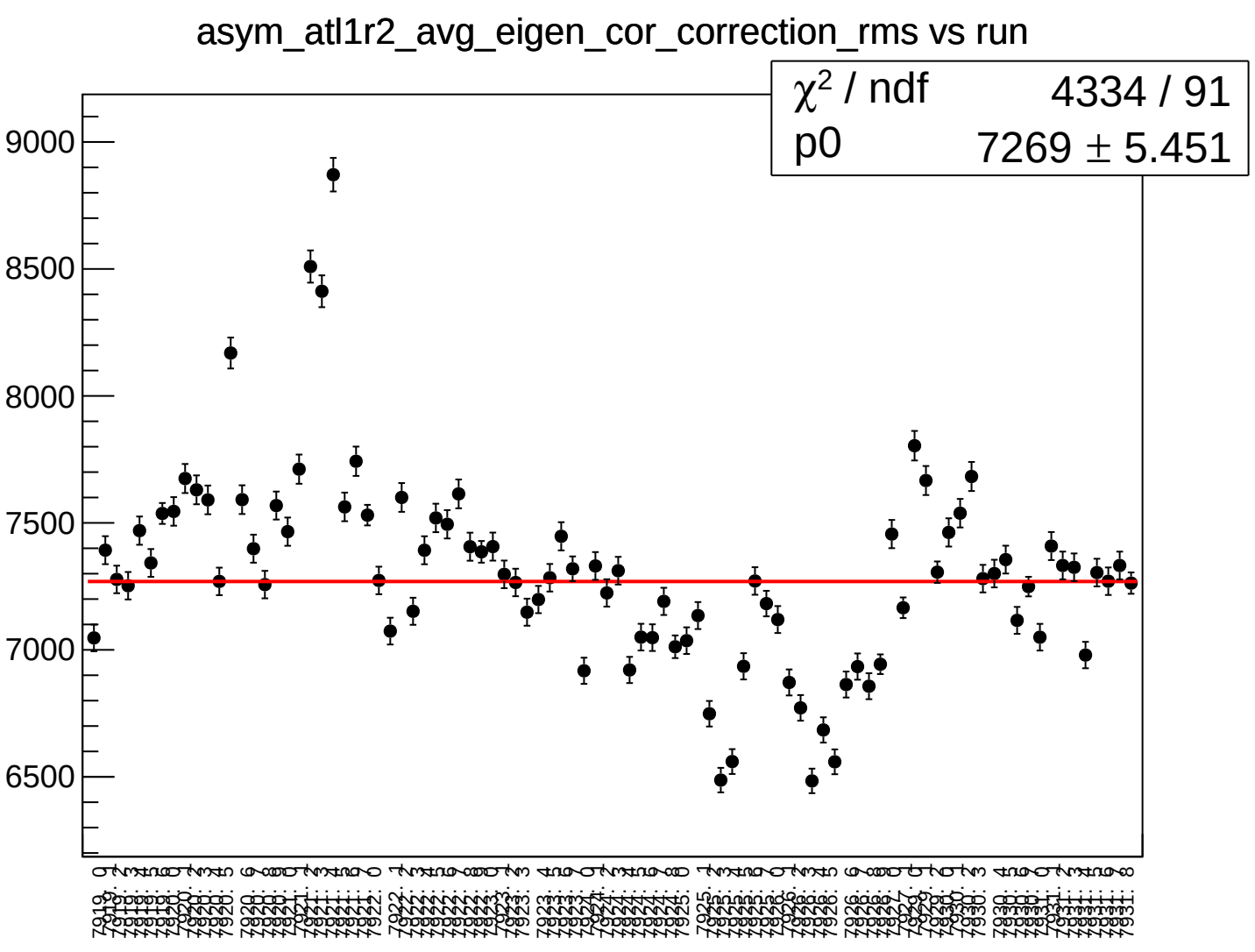

asym_atl1r2_avg_cor_correction_rms vs run
χ² / ndf 4334 / 91
p0 7269 ± 5.451
9000
8500
8000
7500
7000
6500

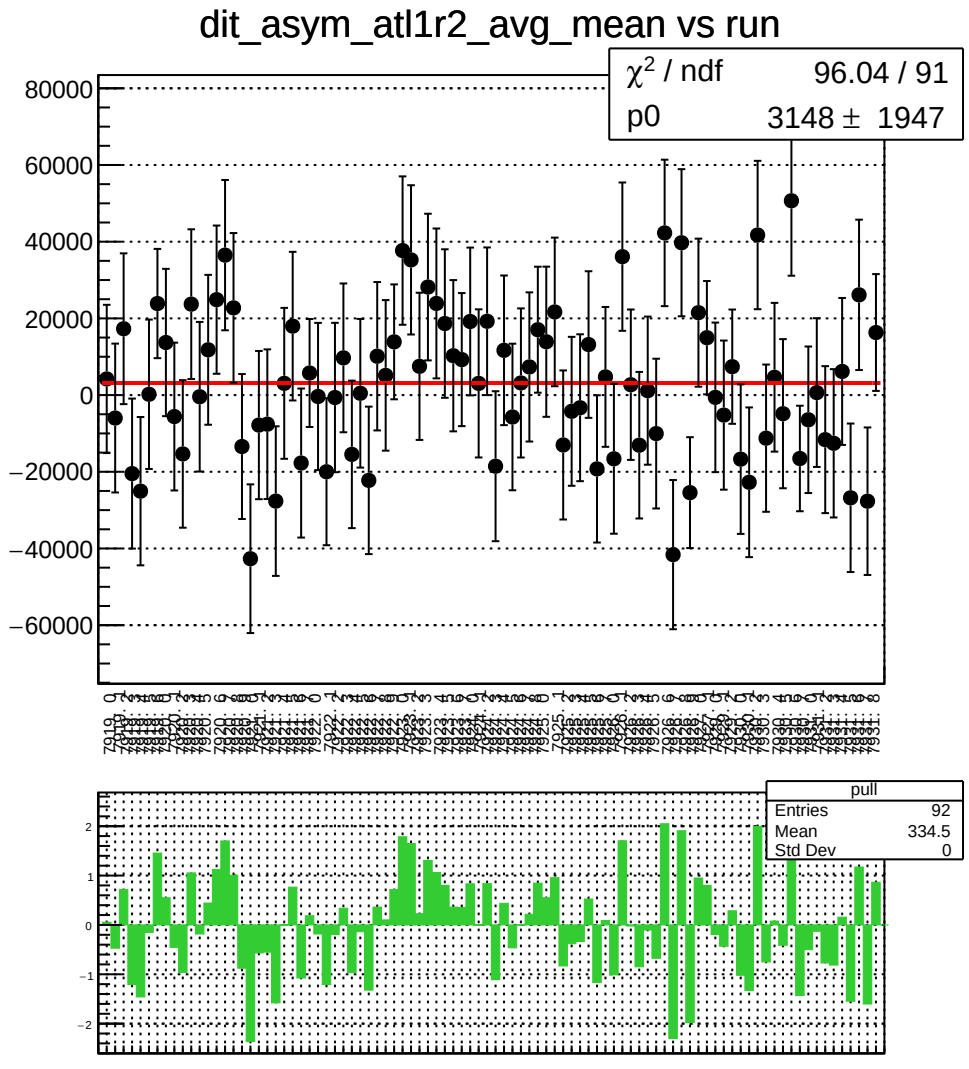

eigen_cor_asym_atl1r2_avg_mean vs run
χ² / ndf 101.4 / 91
p0 3291 ± 1932
pull
Entries 92
Mean 106.6
Std Dev 125.6

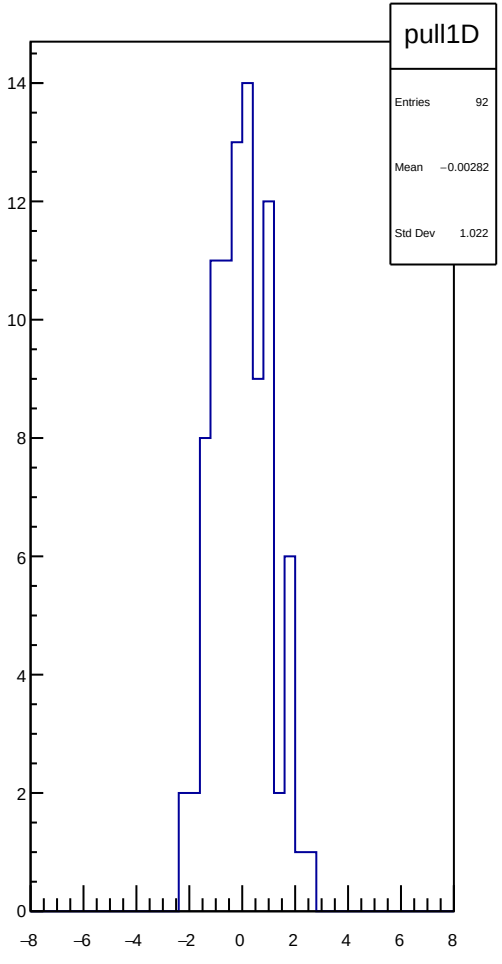

pull1D
Entries 92
Mean −0.004889
Std Dev 1.05

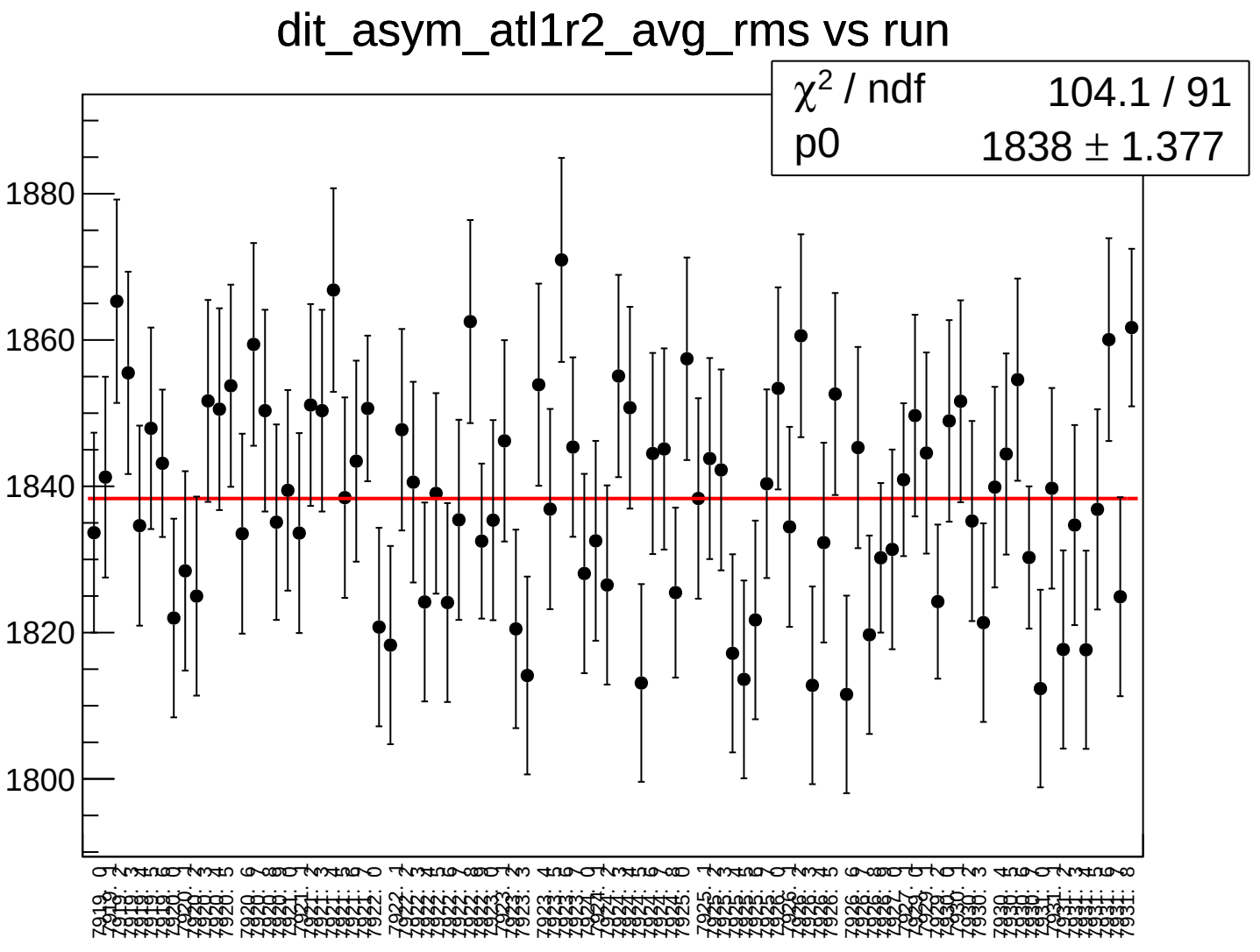

eigen_cor_asym_atl1r2_avg_rms vs run
χ^2 / ndf 104.6 / 91
p0 1824 ± 1.366
1860
1840
1820
1800
1780

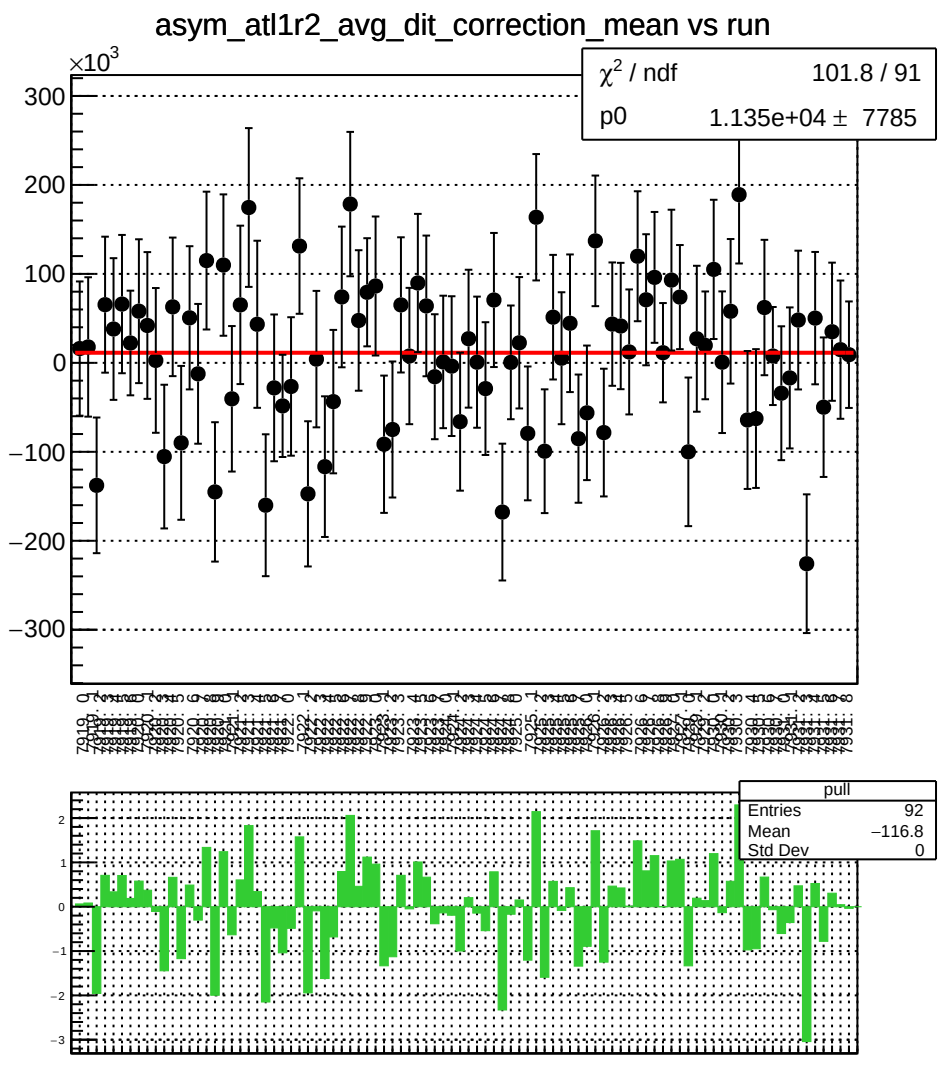

asym_atl1r2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 101.2 / 91
p0 1.15e+04 ± 7708
pull
Entries 92
Mean −117.3
Std Dev 0
pull1D
Entries 92
Mean −0.004971
Std Dev 1.049

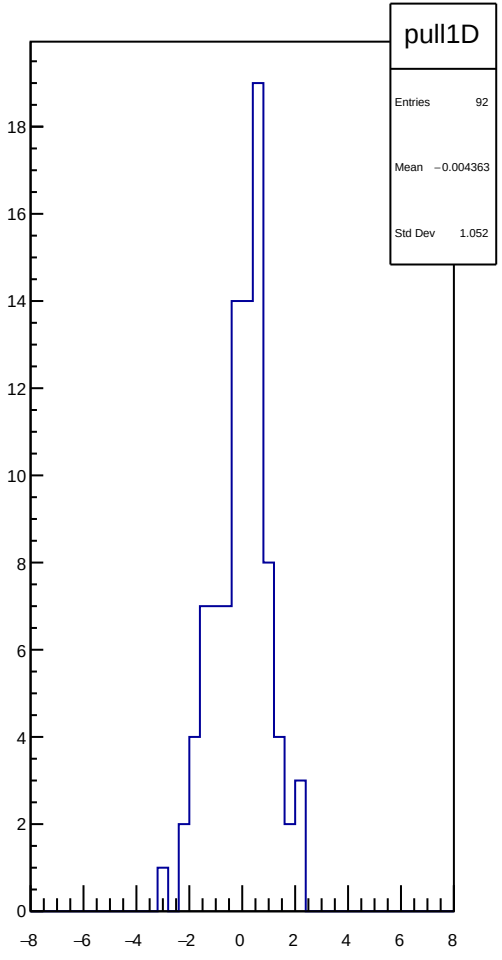

asym_atl1r2_avg_eigen_cor_correction_rms vs run
χ² / ndf 4334 / 91
p0 7269 ± 5.451
9000
8500
8000
7500
7000
6500

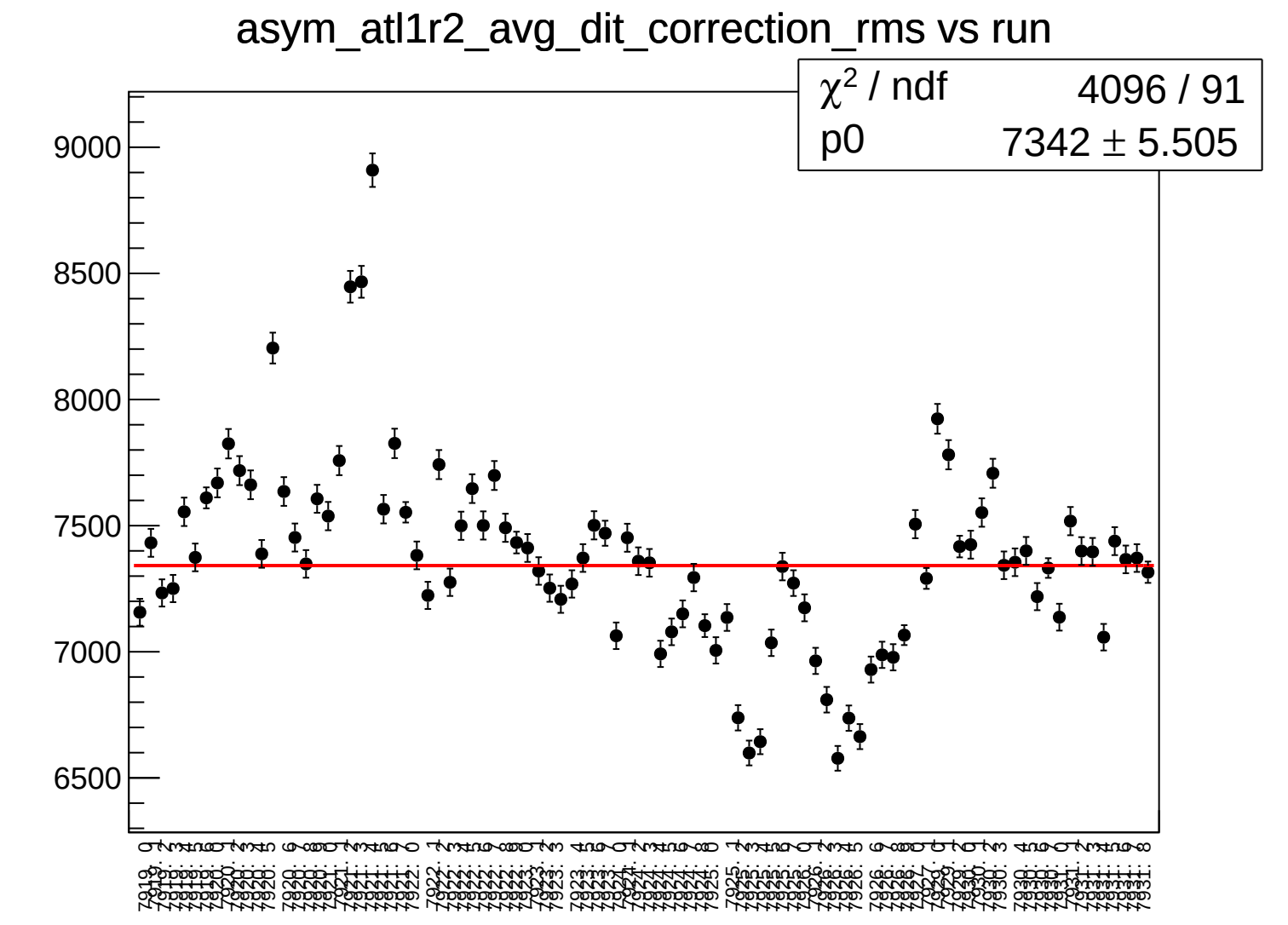

dit_asym_atl1r2_avg_mean vs run
χ² / ndf 96.04 / 91
p0 3148 ± 1947
pull
Entries 92
Mean 334.5
Std Dev 0

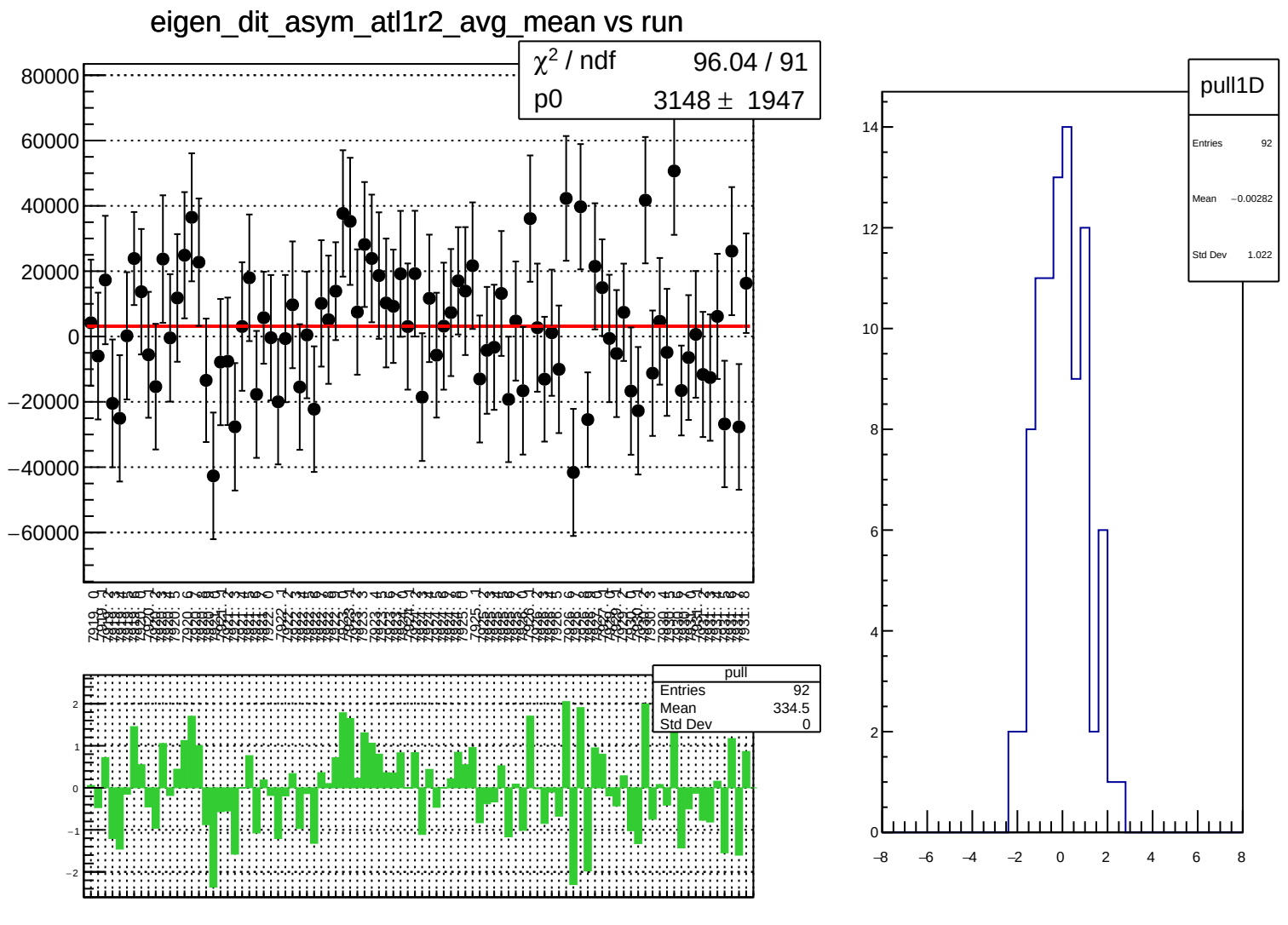

pull1D
Entries 92
Mean −0.00282
Std Dev 1.022

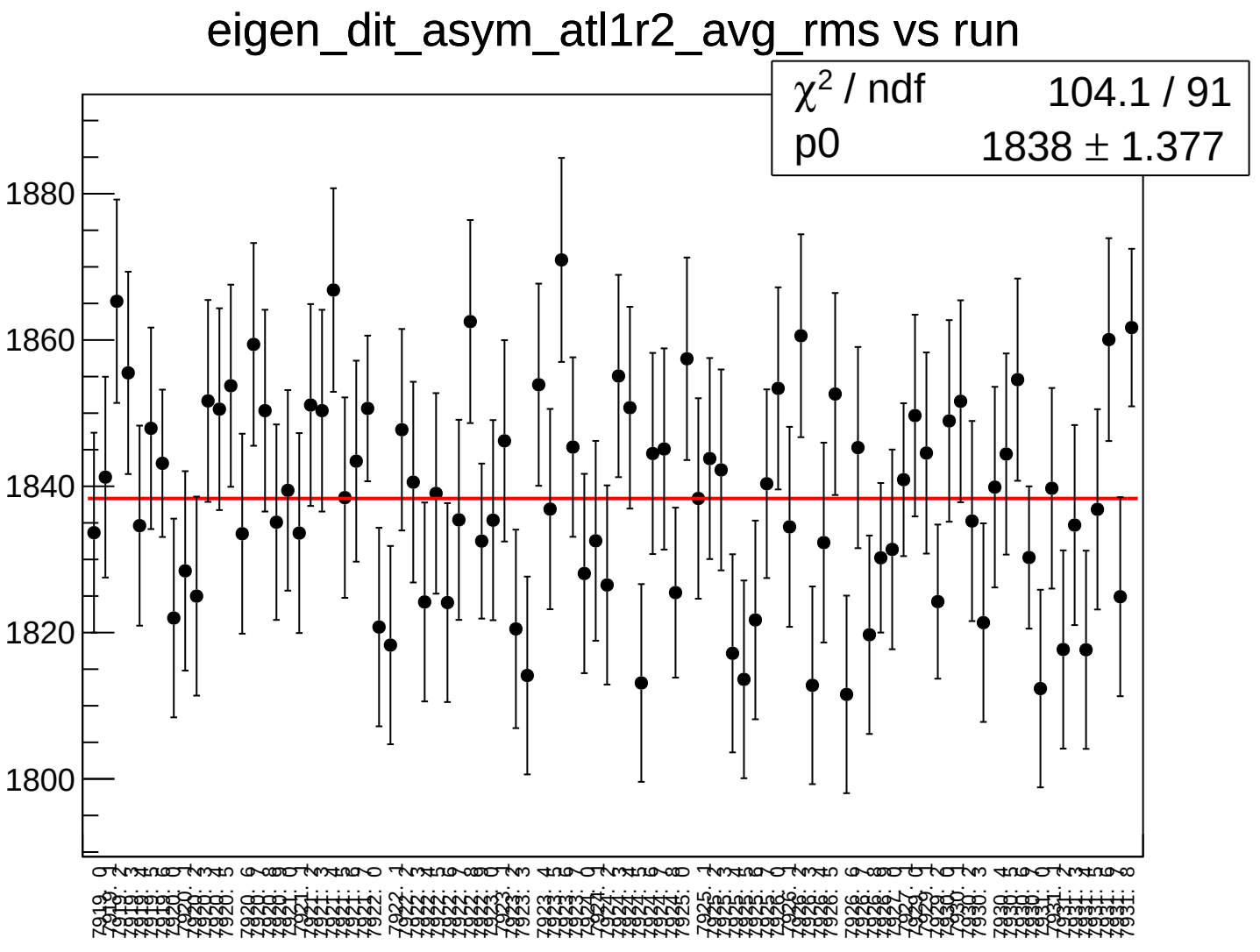

dit_asym_atl1r2_avg_rms vs run
χ² / ndf 104.1 / 91
p0 1838 ± 1.377
1880
1860
1840
1820
1800

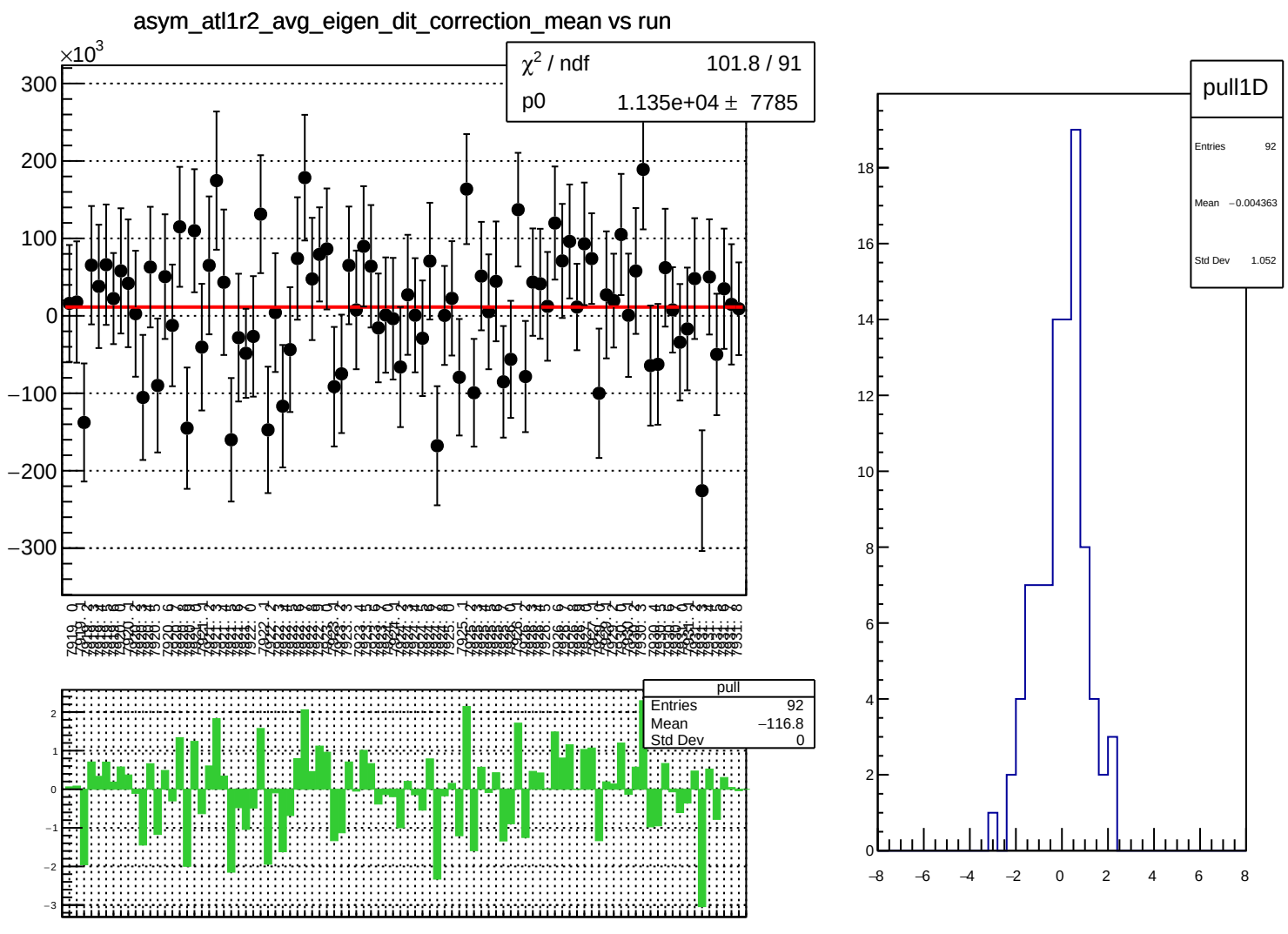

asym_atl1r2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 101.8 / 91
p0 1.135e+04 ± 7785
pull
Entries 92
Mean −116.8
Std Dev 0

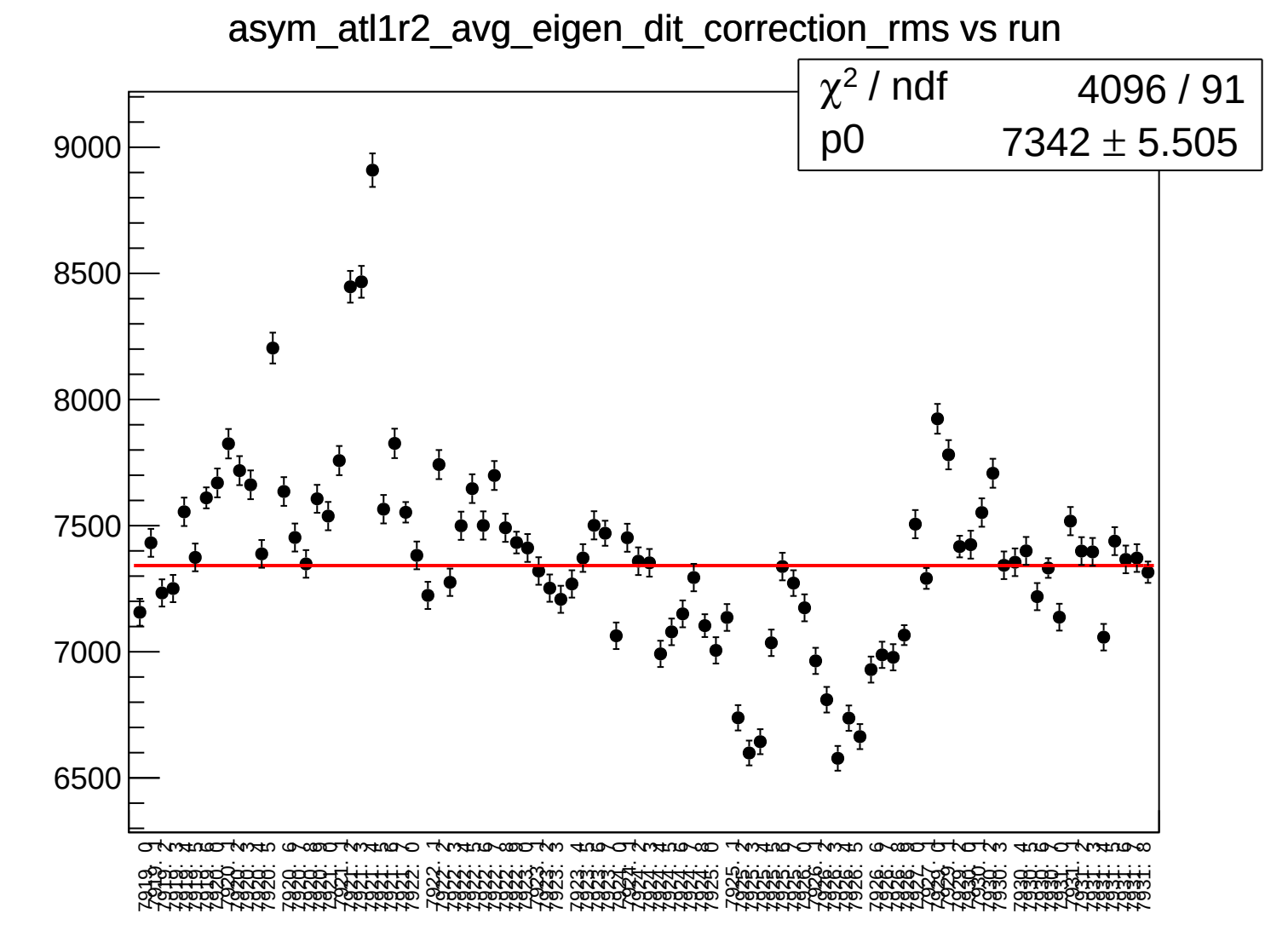

pull1D
Entries 92
Mean −0.004363
Std Dev 1.052

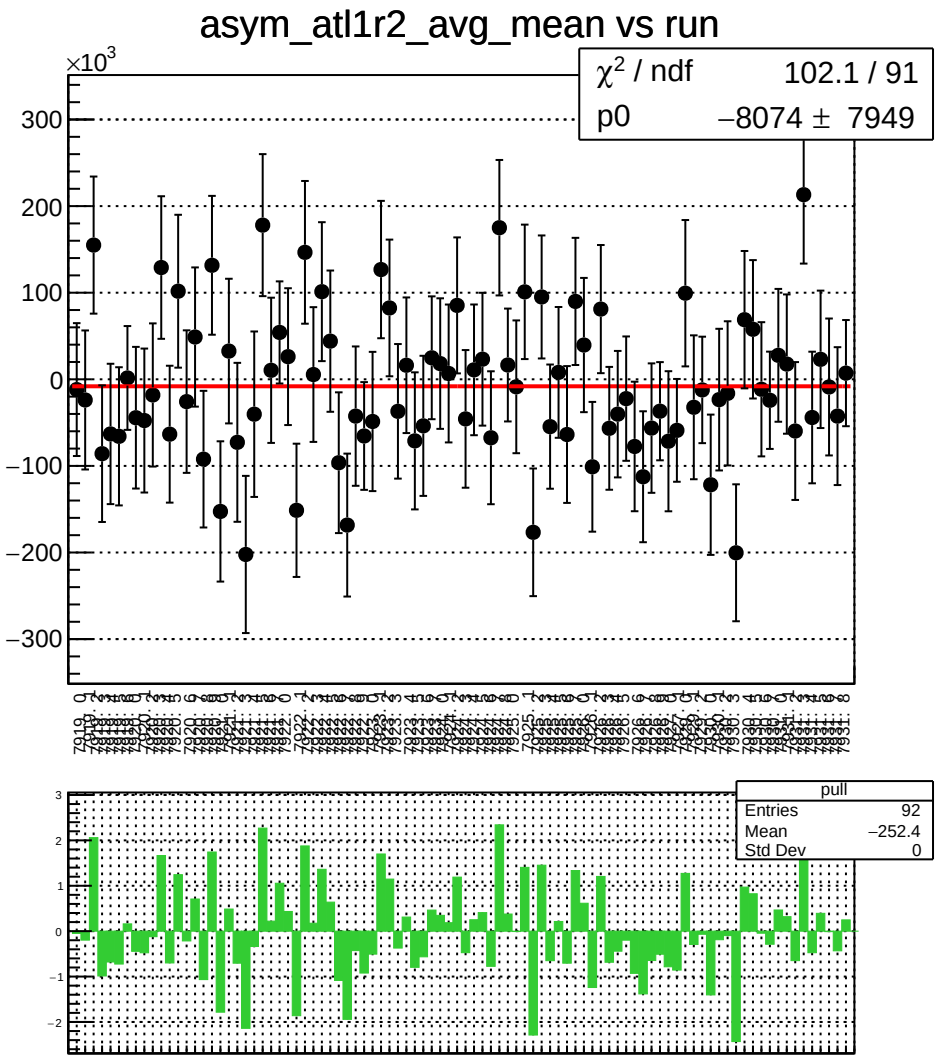

asym_atl1r2_avg_dit_correction_rms vs run
χ² / ndf 4096 / 91
p0 7342 ± 5.505
9000
8500
8000
7500
7000
6500

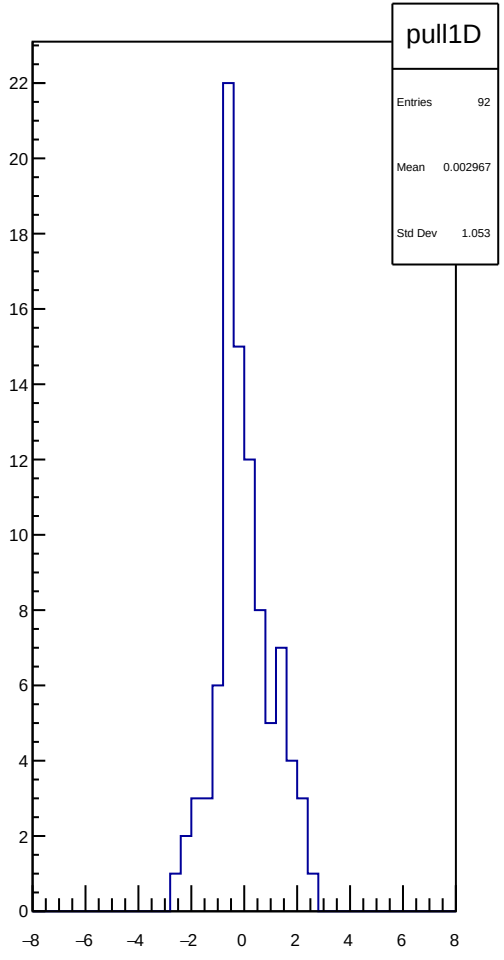

eigen_dit_asym_atl1r2_avg_mean vs run
χ² / ndf 96.04 / 91
p0 3148 ± 1947
pull
Entries 92
Mean 334.5
Std Dev 0
pull1D
Entries 92
Mean −0.00282
Std Dev 1.022

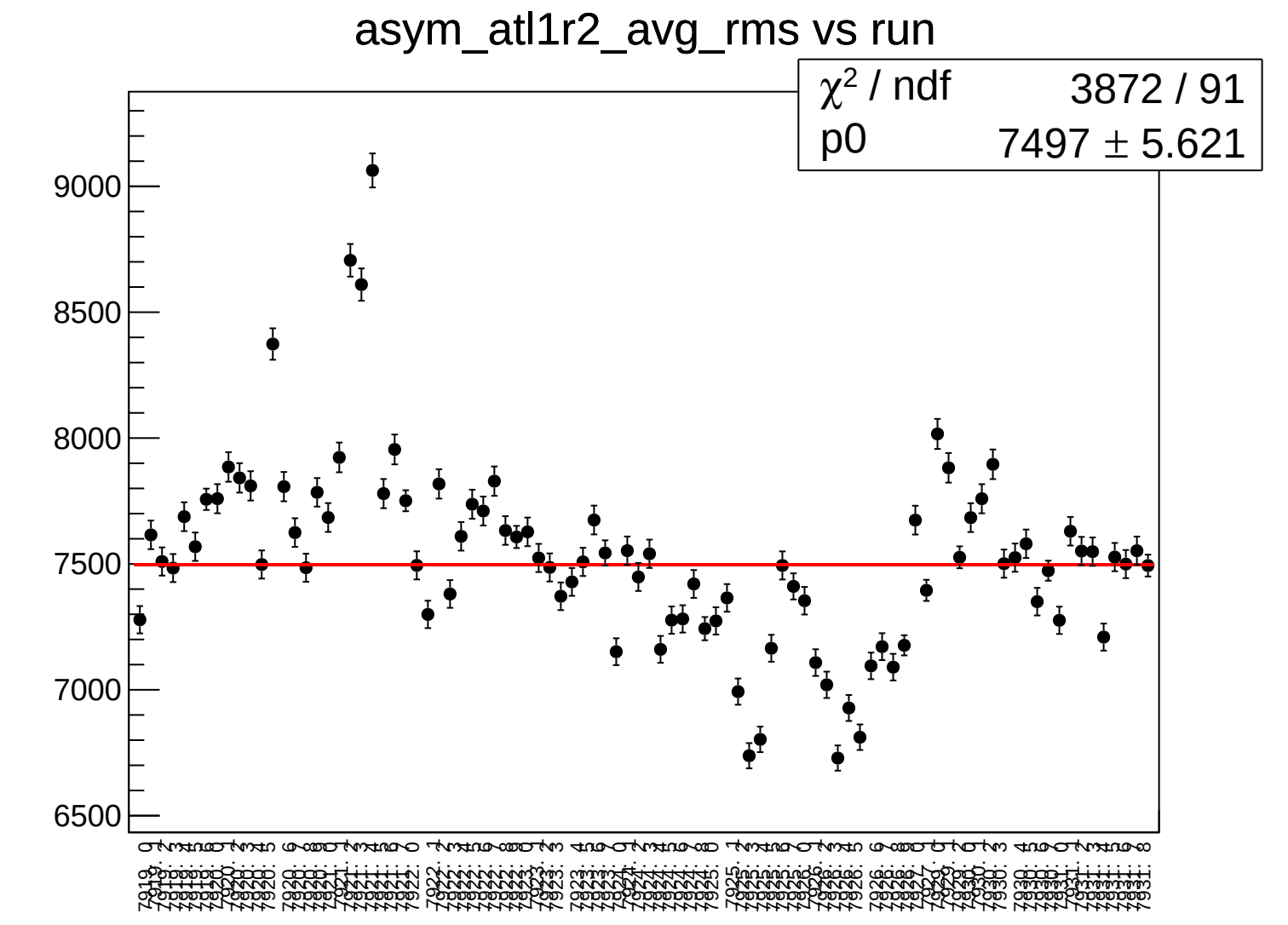

eigen_dit_asym_atl1r2_avg_rms vs run
χ^2 / ndf 104.1 / 91
p0 1838 ± 1.377
1880
1860
1840
1820
1800

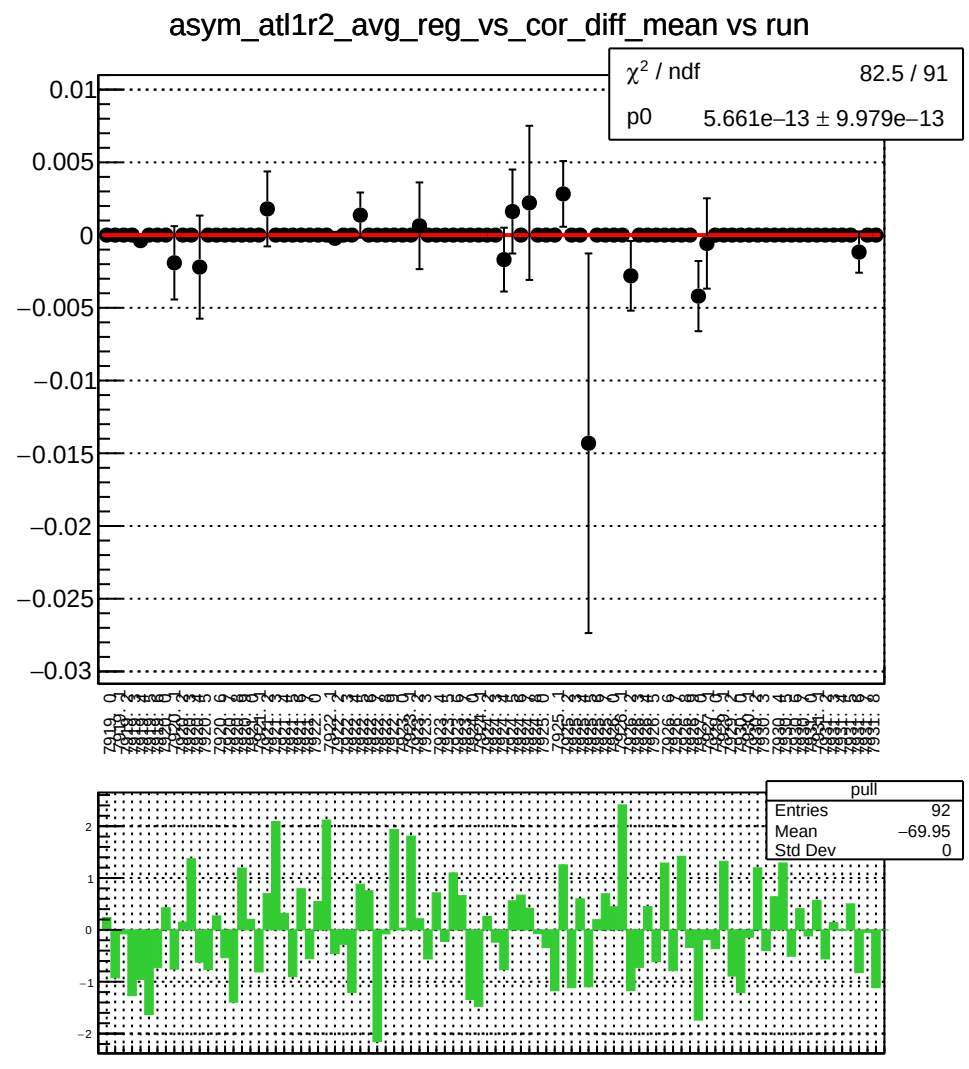

asym_atl1r2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 101.8 / 91
p0 1.135e+04 ± 7785
pull
Entries 92
Mean −116.8
Std Dev 0
pull1D
Entries 92
Mean −0.004363
Std Dev 1.052

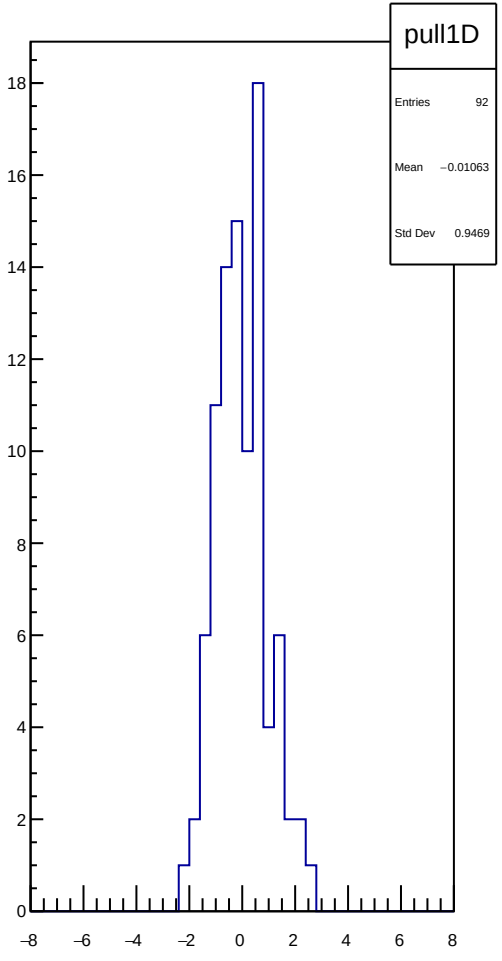

asym_atl1r2_avg_eigen_dit_correction_rms vs run
χ² / ndf 4096 / 91
p0 7342 ± 5.505
9000
8500
8000
7500
7000
6500

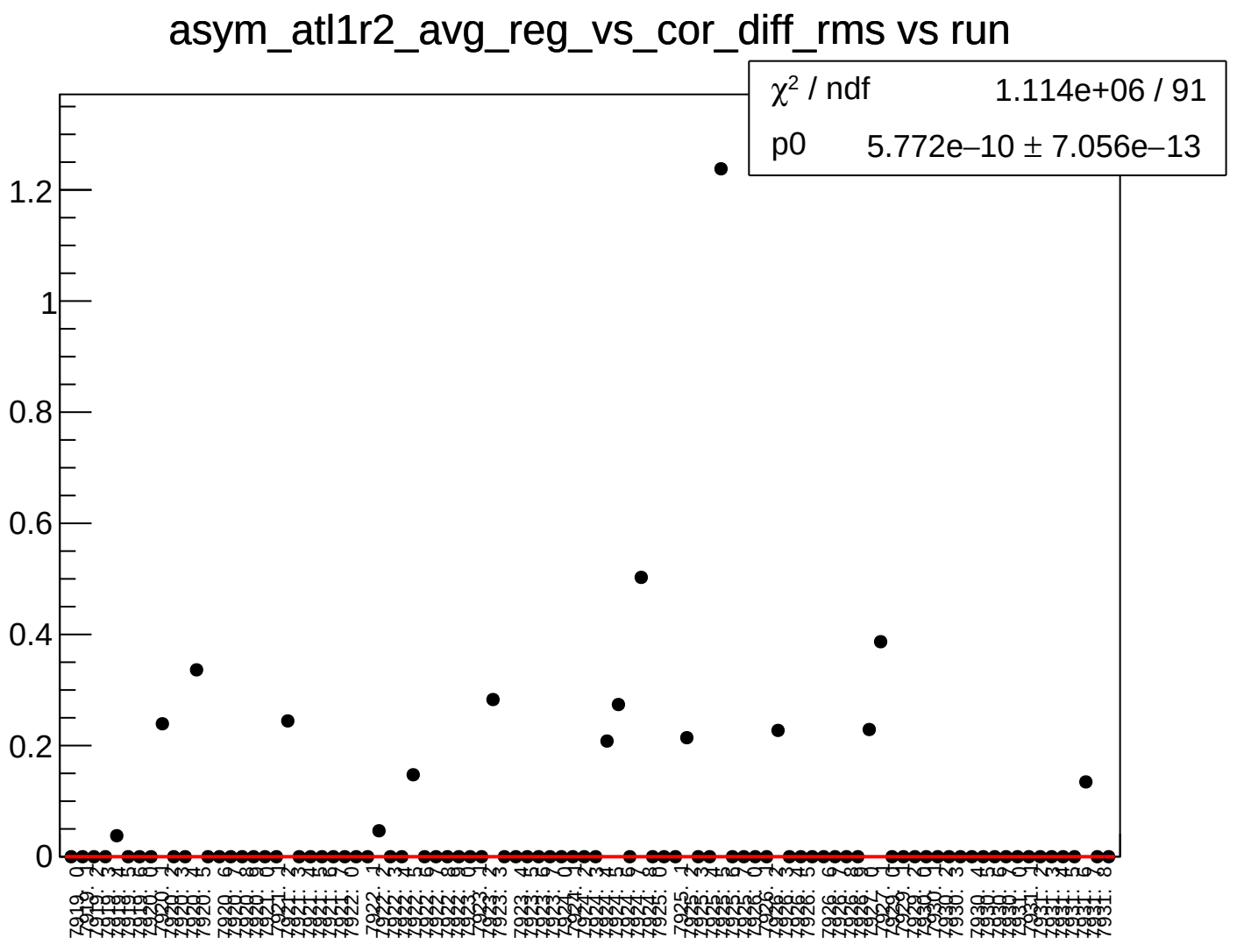

asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 102.1 / 91
p0 −8074 ± 7949
300
200
100
0
−100
−200
−300
pull
Entries 92
Mean −252.4
Std Dev 0
3
2
1
0
−1
−2

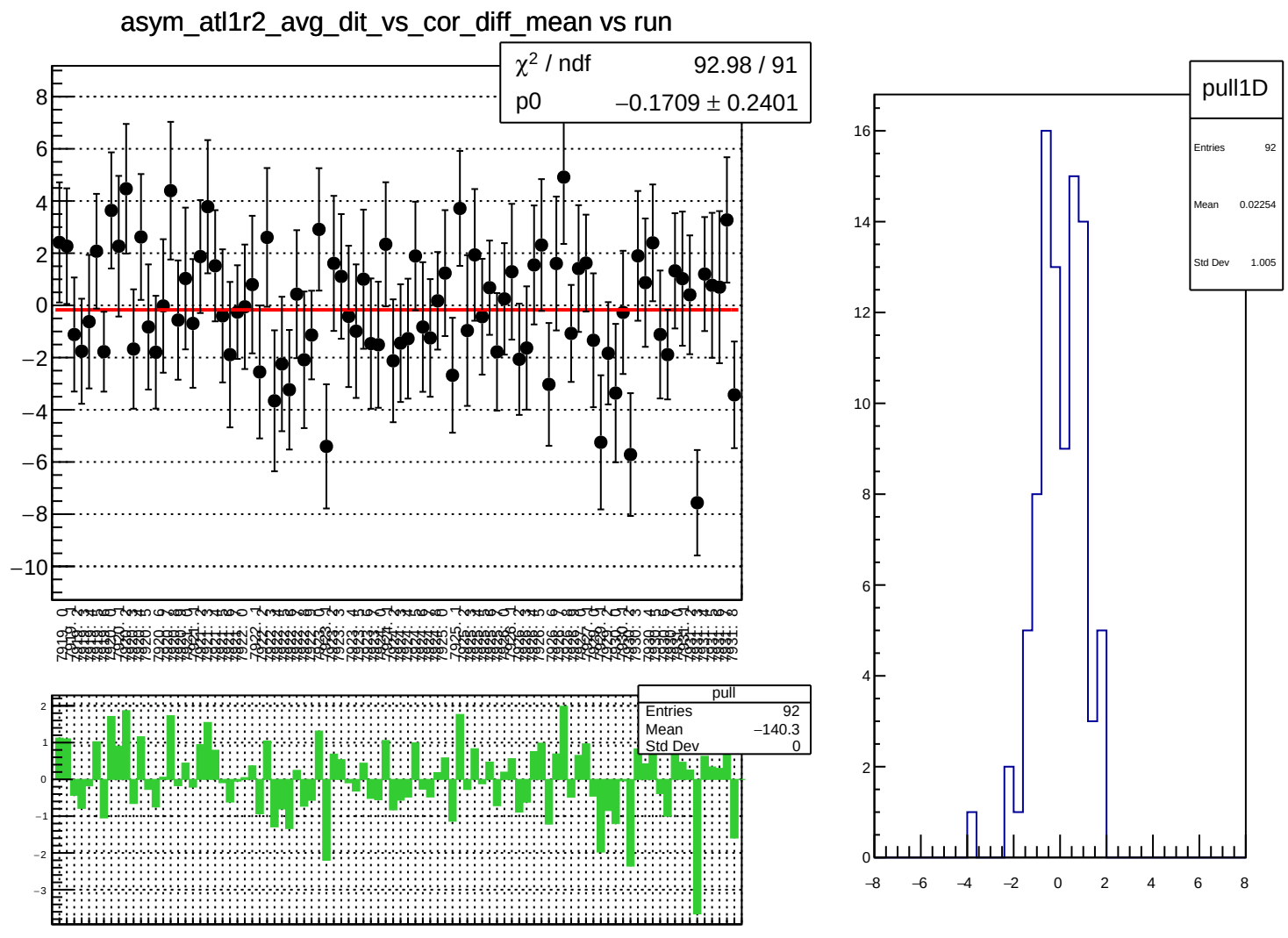

pull1D
Entries 92
Mean 0.002967
Std Dev 1.053
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

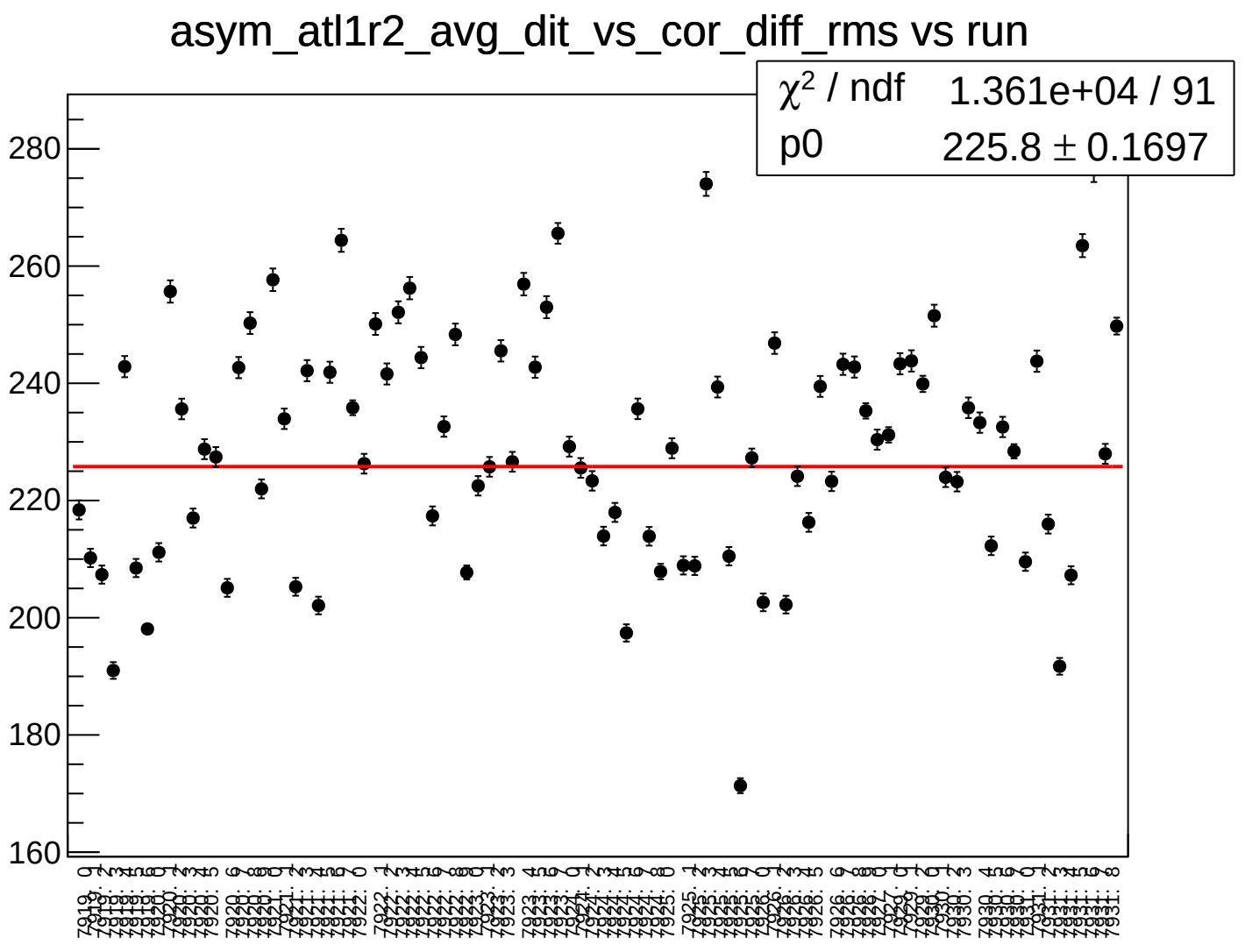

asym_atl1r2_avg_rms vs run
χ² / ndf 3872 / 91
p0 7497 ± 5.621
9000
8500
8000
7500
7000
6500

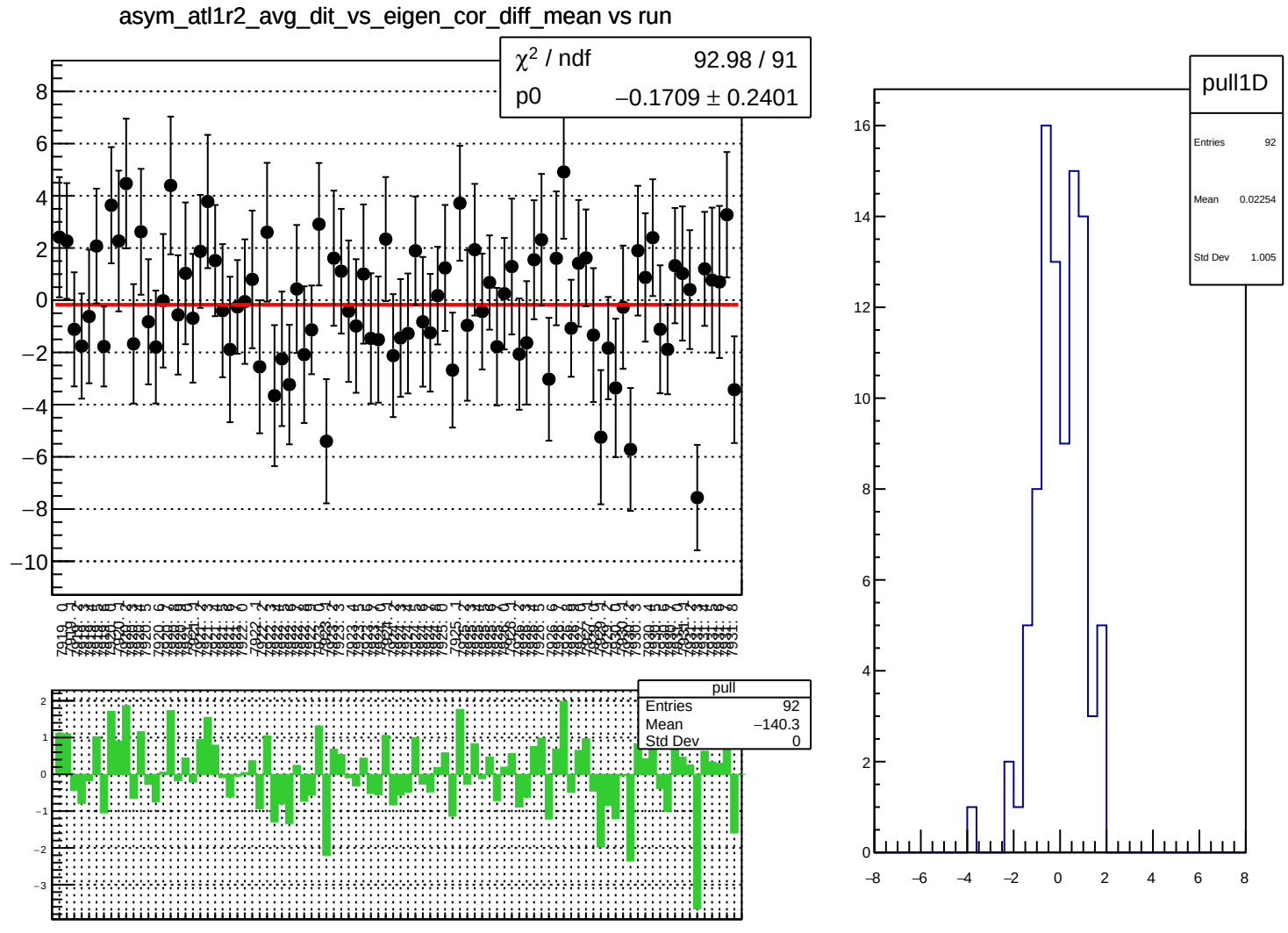

asym_atl1r2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 82.5 / 91
p0 5.661e−13 ± 9.979e−13
pull
Entries 92
Mean −69.95
Std Dev 0

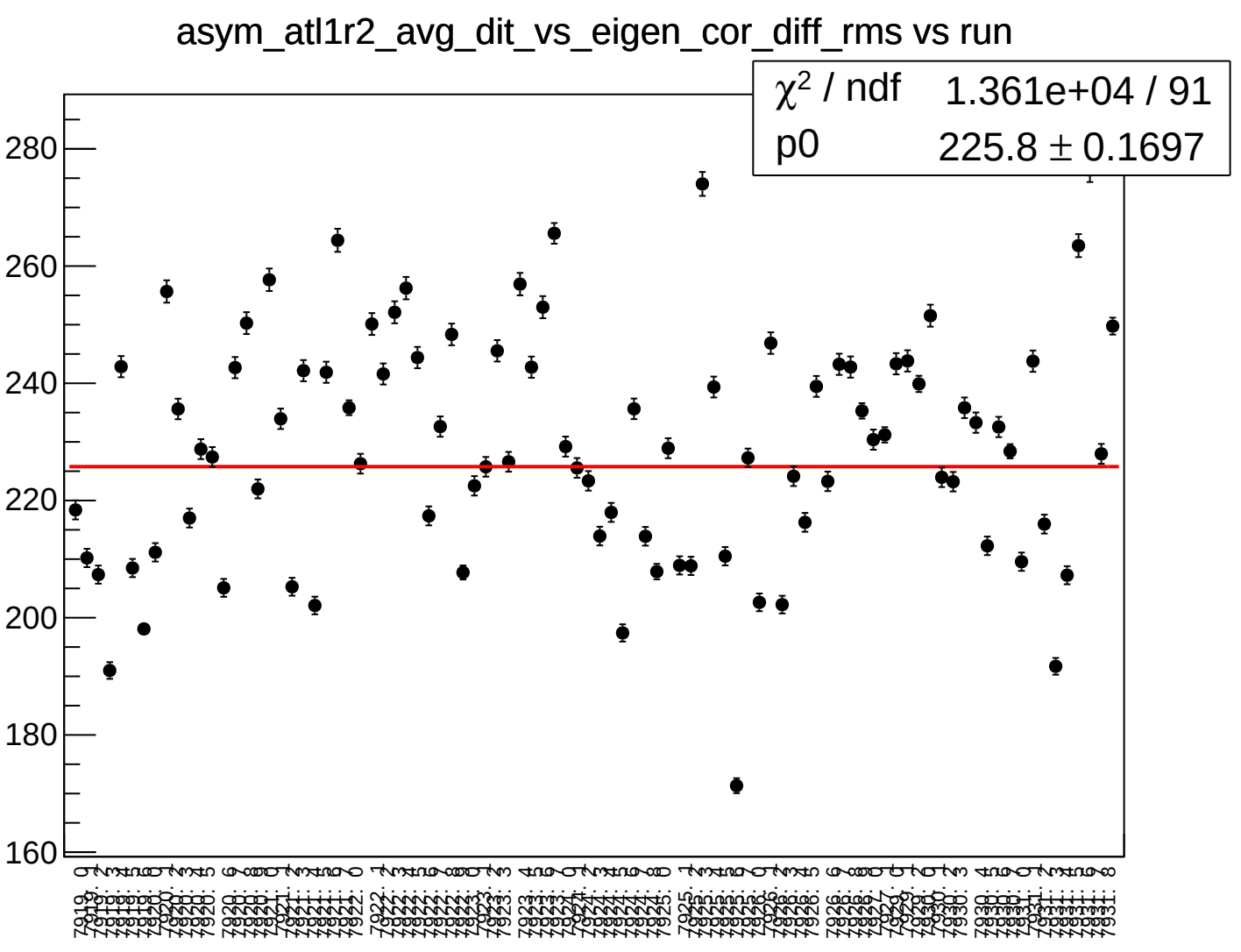

pull1D
Entries 92
Mean −0.01063
Std Dev 0.9469

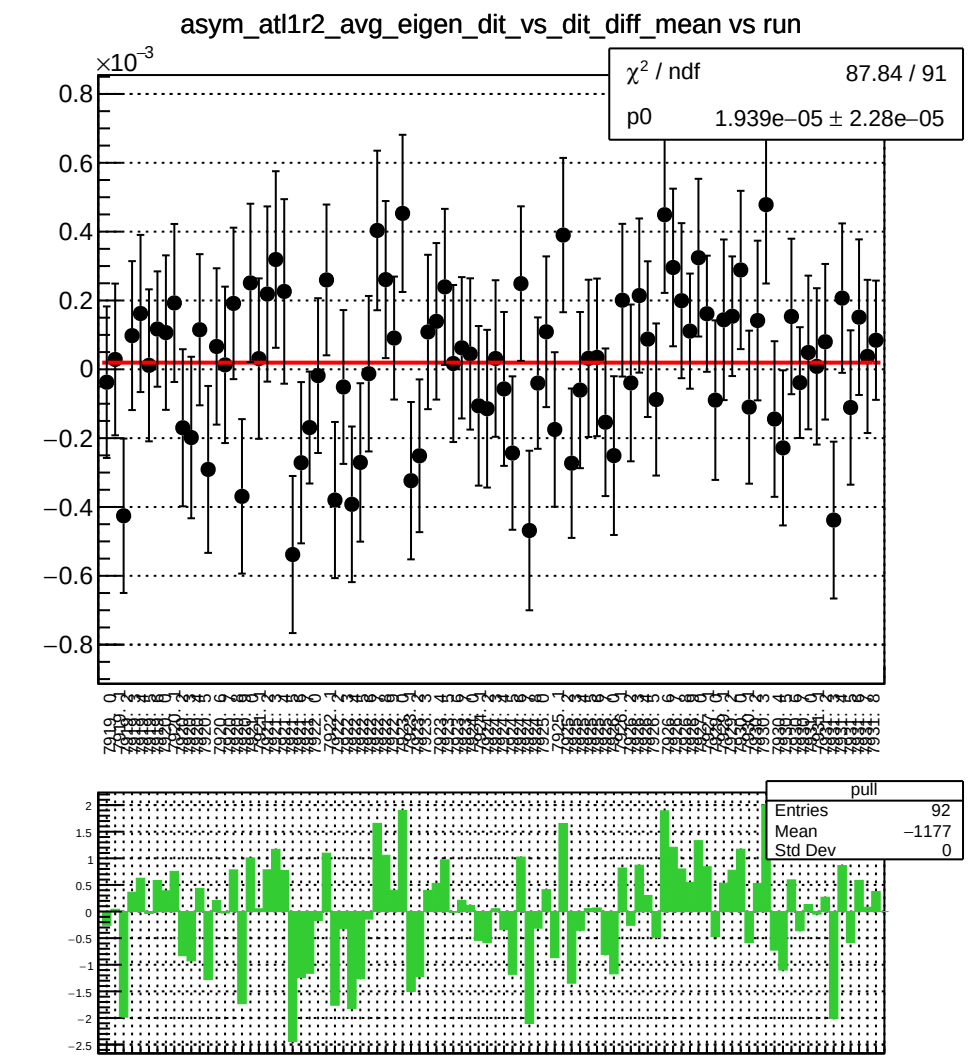

asym_atl1r2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.114e+06 / 91
p0 5.772e−10 ± 7.056e−13
1.2
1
0.8
0.6
0.4
0.2
0

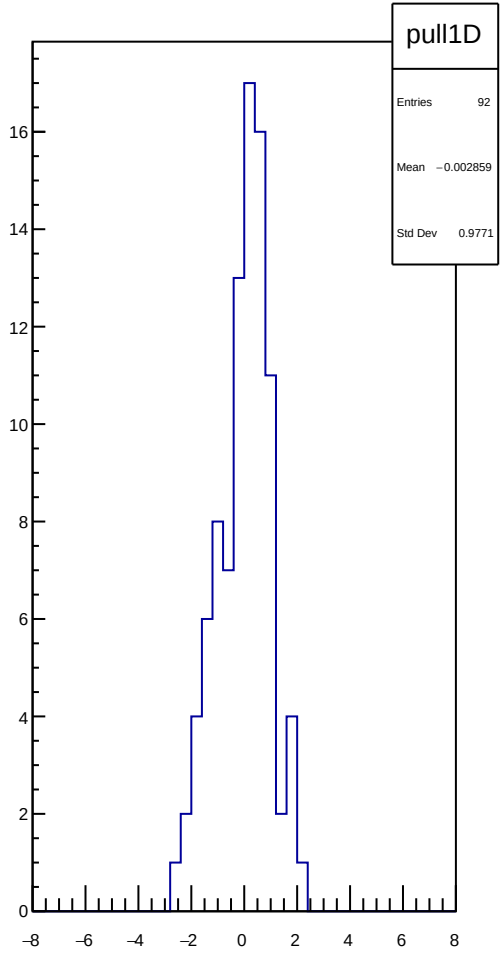

asym_atl1r2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 92.98 / 91
p0 −0.1709 ± 0.2401
pull
Entries 92
Mean −140.3
Std Dev 0
pull1D
Entries 92
Mean 0.02254
Std Dev 1.005

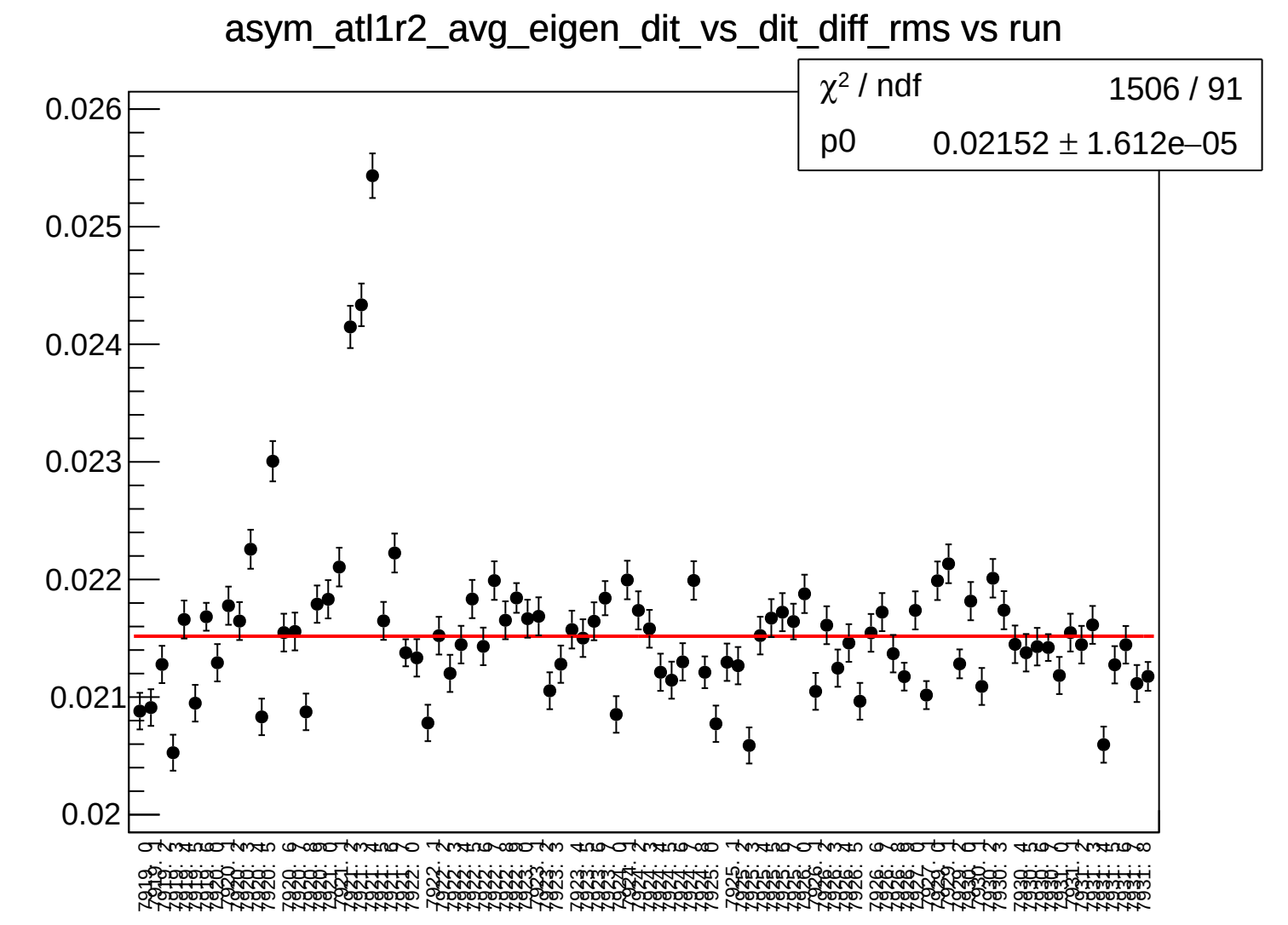

asym_atl1r2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.361e+04 / 91
p0 225.8 ± 0.1697
280
260
240
220
200
180
160

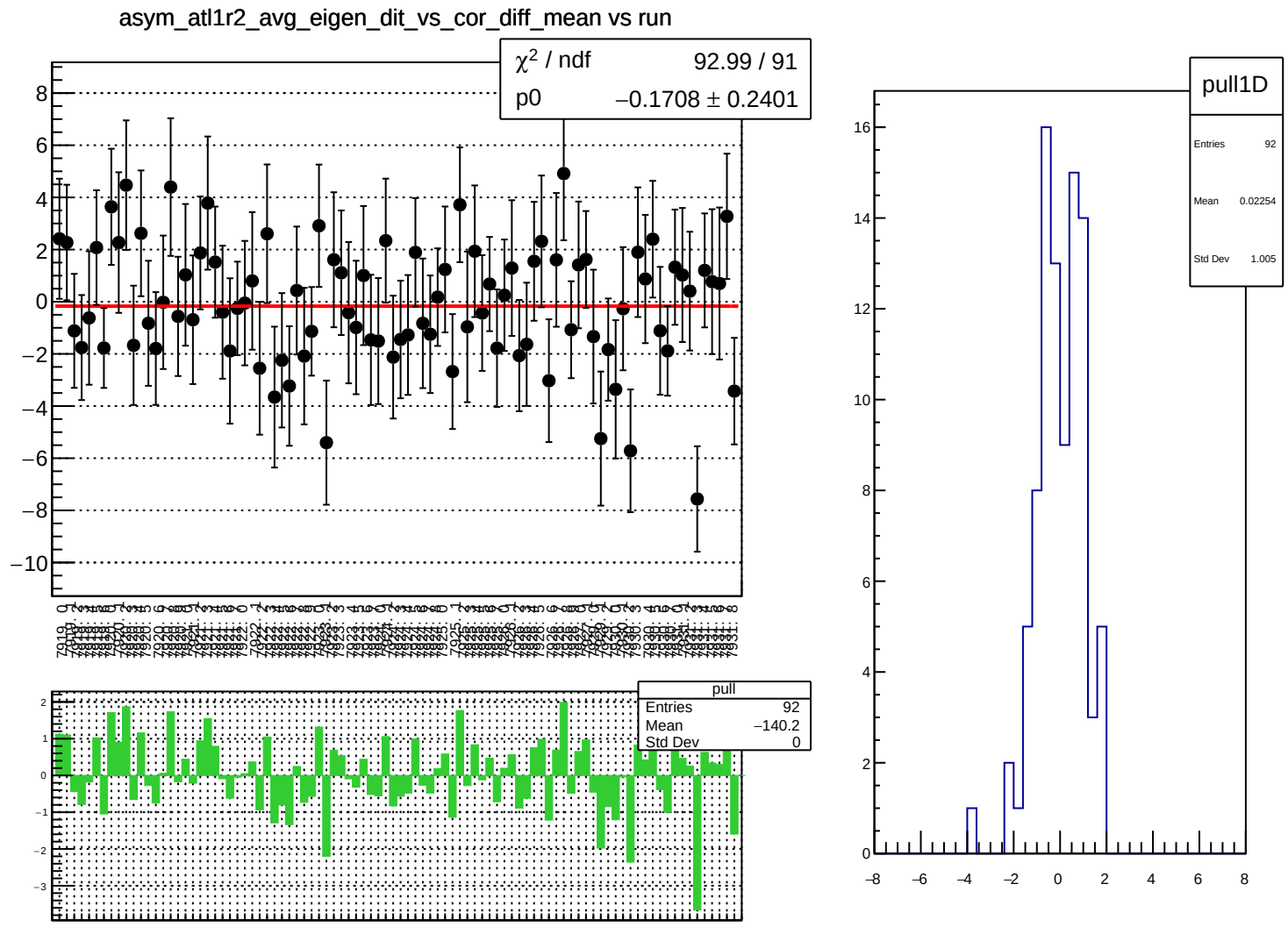

asym_atl1r2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.98 / 91
p0 −0.1709 ± 0.2401
pull
Entries 92
Mean −140.3
Std Dev 0
pull1D
Entries 92
Mean 0.02254
Std Dev 1.005

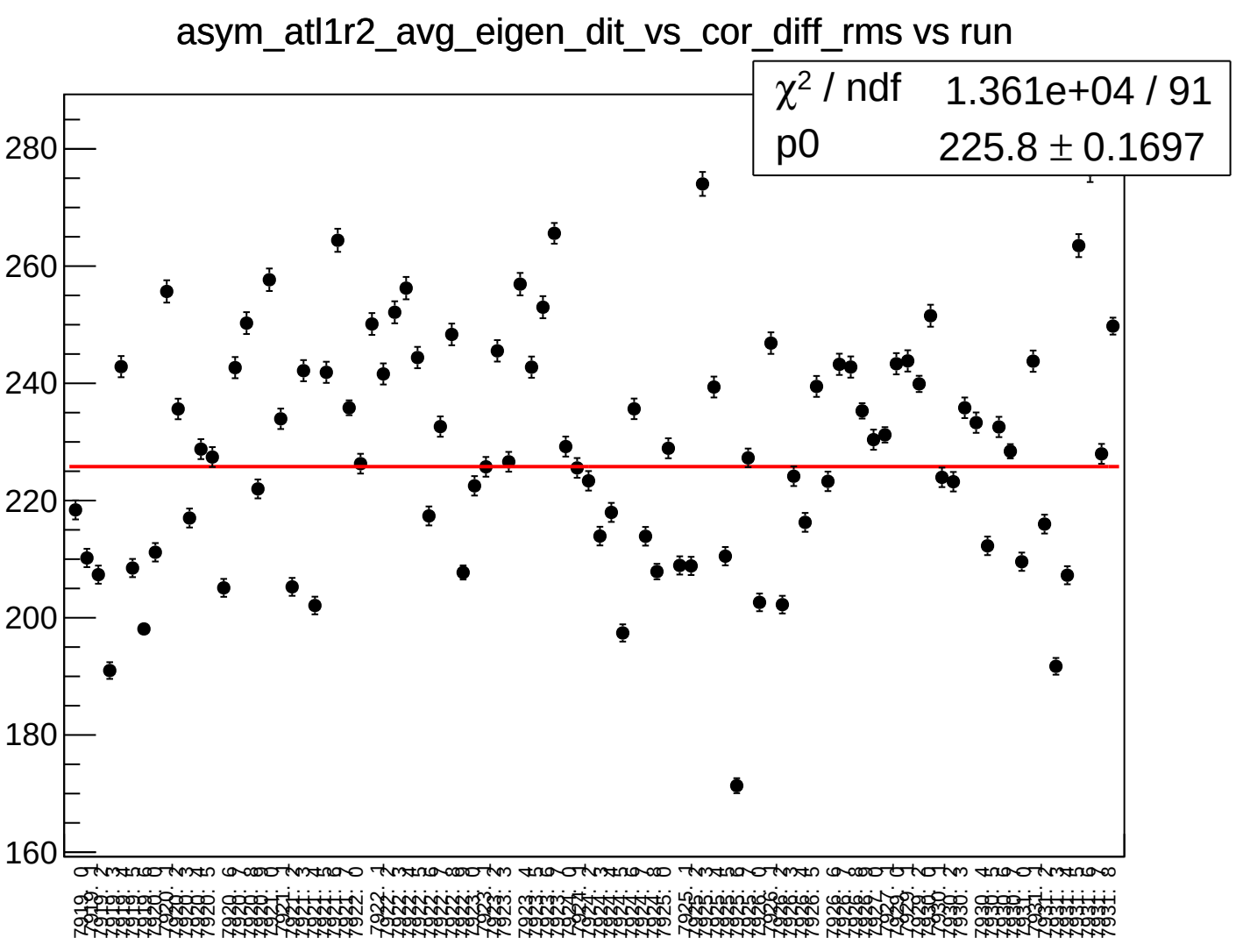

asym_atl1r2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.361e+04 / 91
p0 225.8 ± 0.1697
280
260
240
220
200
180
160

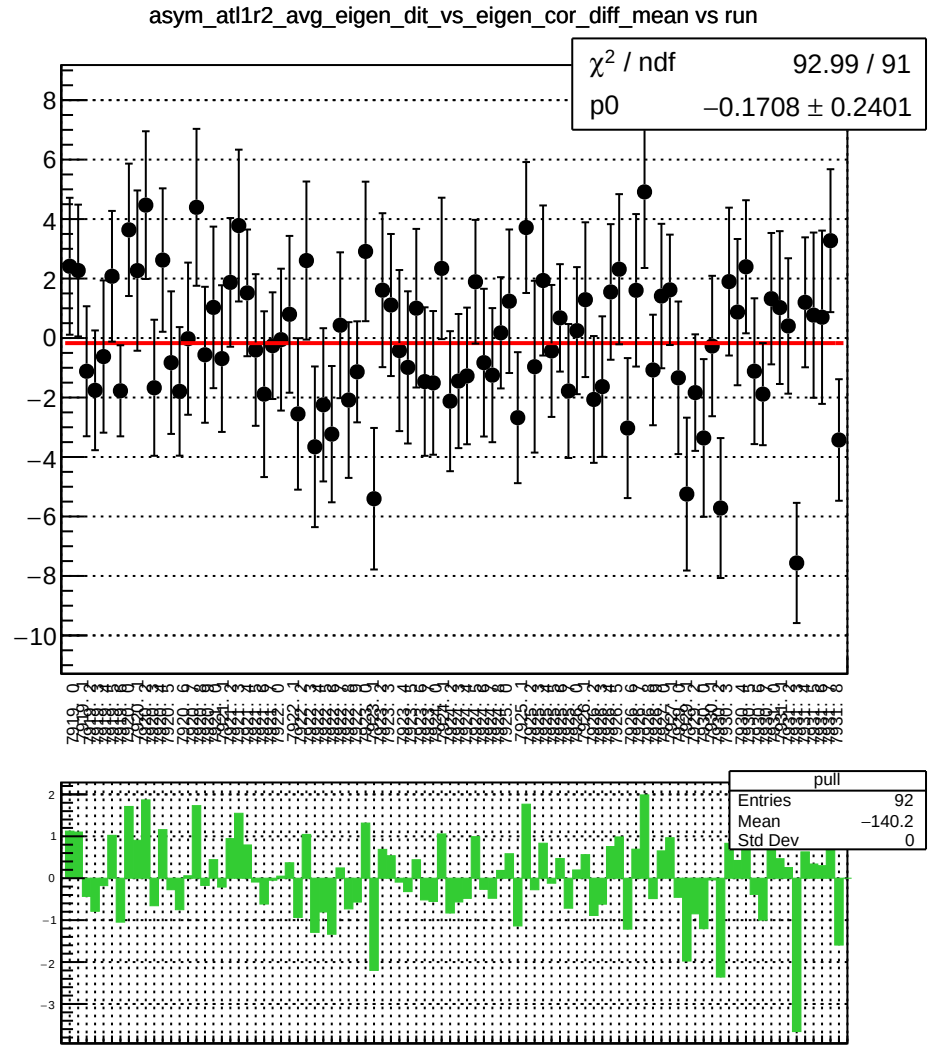

asym_atl1r2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.84 / 91
p0 1.939e−05 ± 2.28e−05
pull
Entries 92
Mean −1177
Std Dev 0

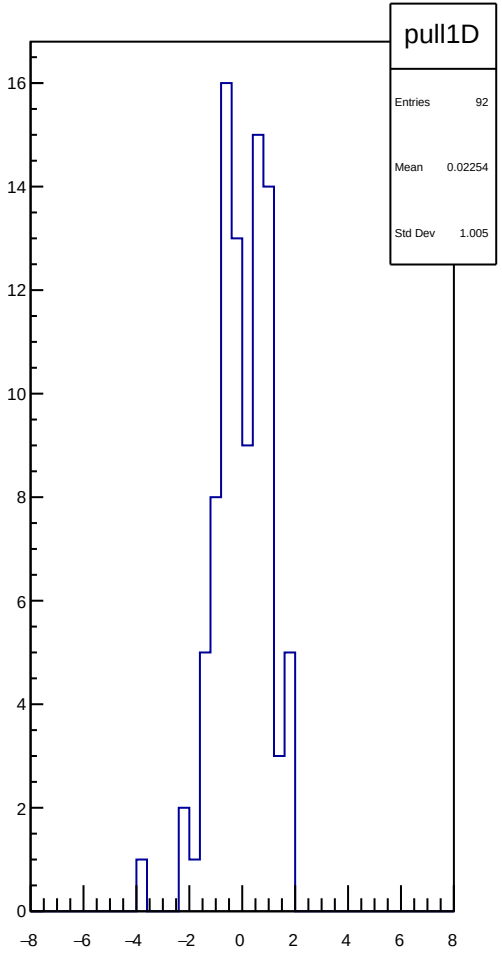

pull1D
Entries 92
Mean −0.002859
Std Dev 0.9771

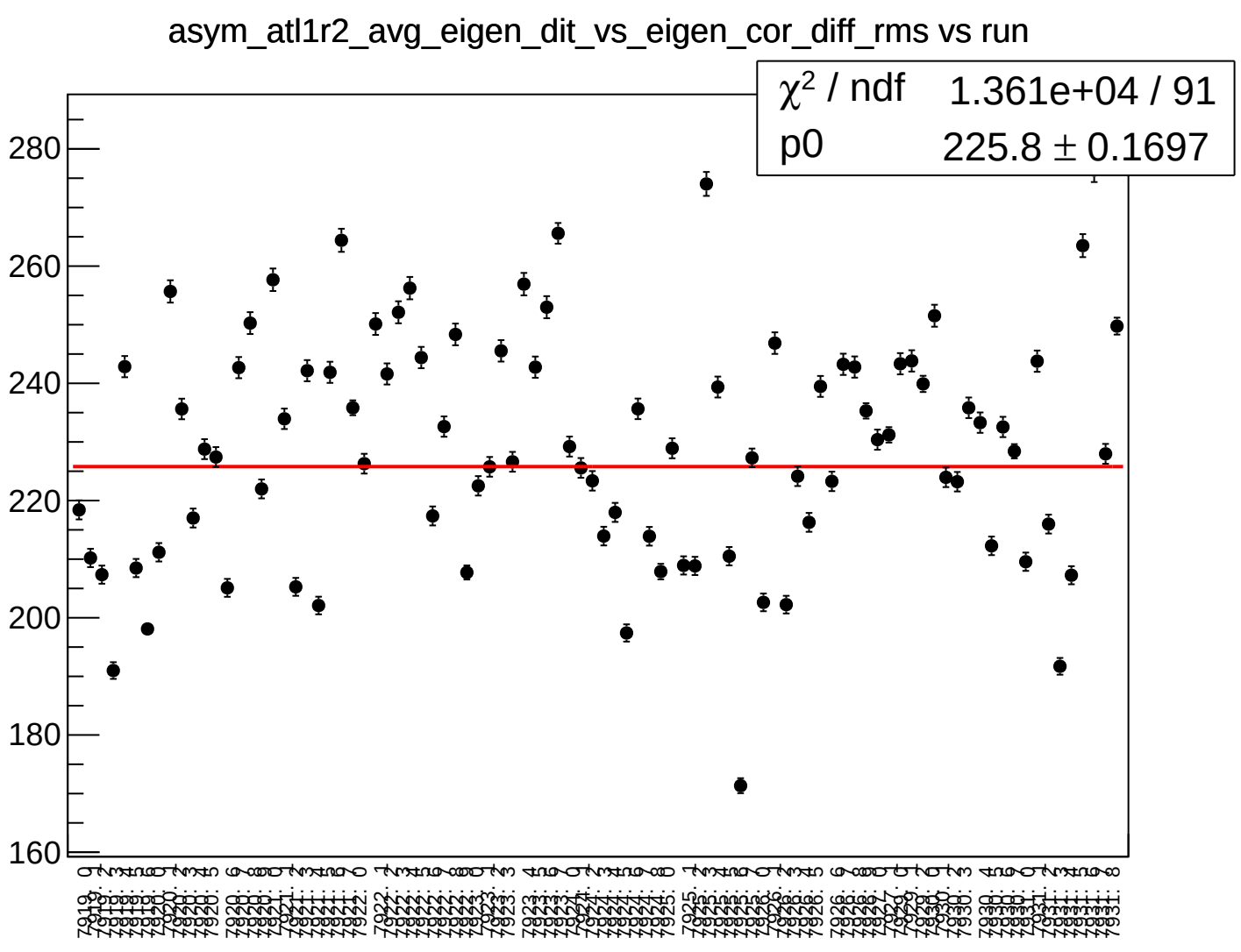

asym_atl1r2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1506 / 91
p0 0.02152 ± 1.612e–05
0.026
0.025
0.024
0.023
0.022
0.021
0.02

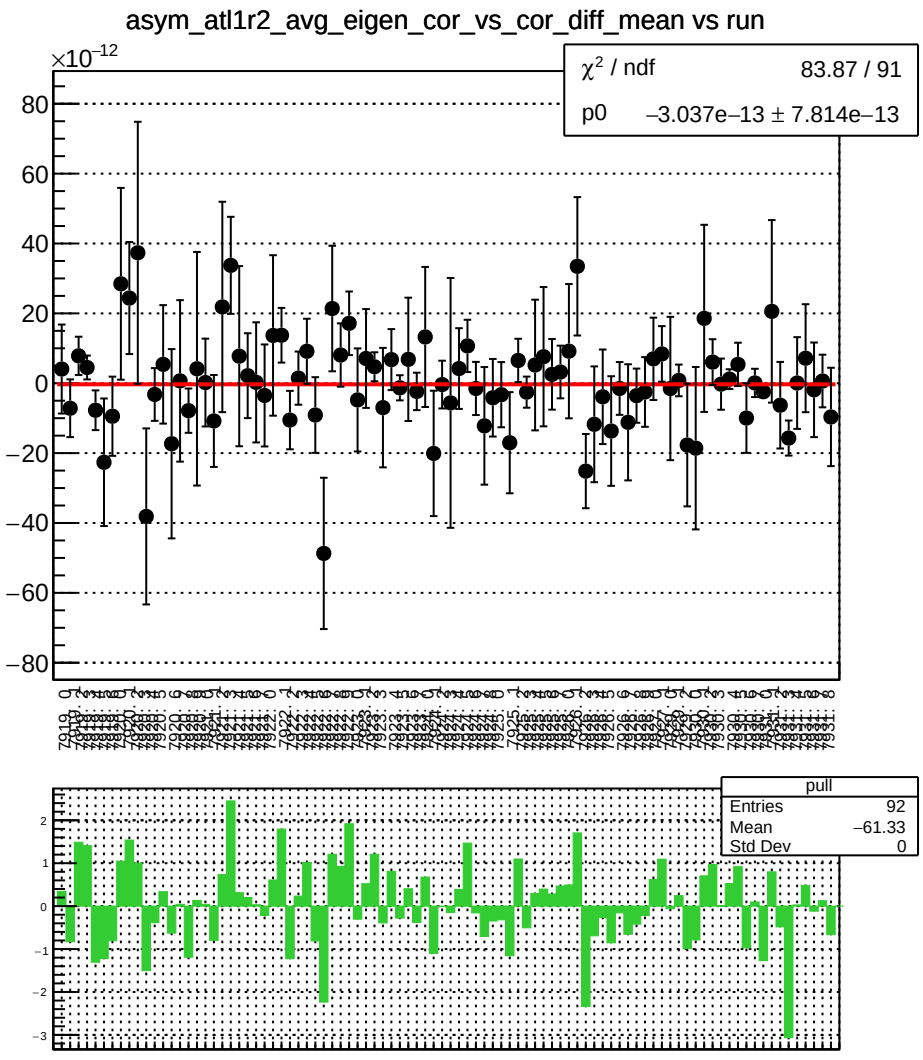

asym_atl1r2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.99 / 91
p0 −0.1708 ± 0.2401
pull
Entries 92
Mean −140.2
Std Dev 0
pull1D
Entries 92
Mean 0.02254
Std Dev 1.005

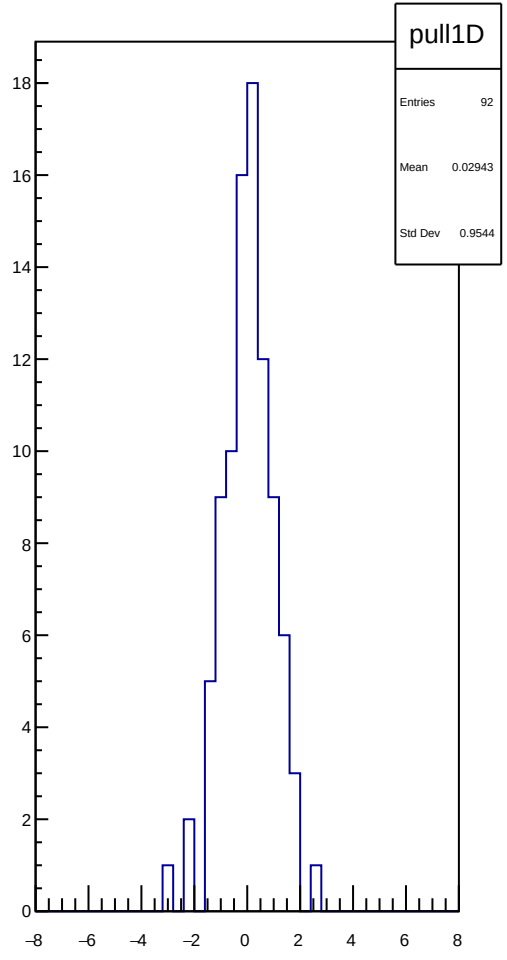

asym_atl1r2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.361e+04 / 91
p0 225.8 ± 0.1697
280
260
240
220
200
180
160

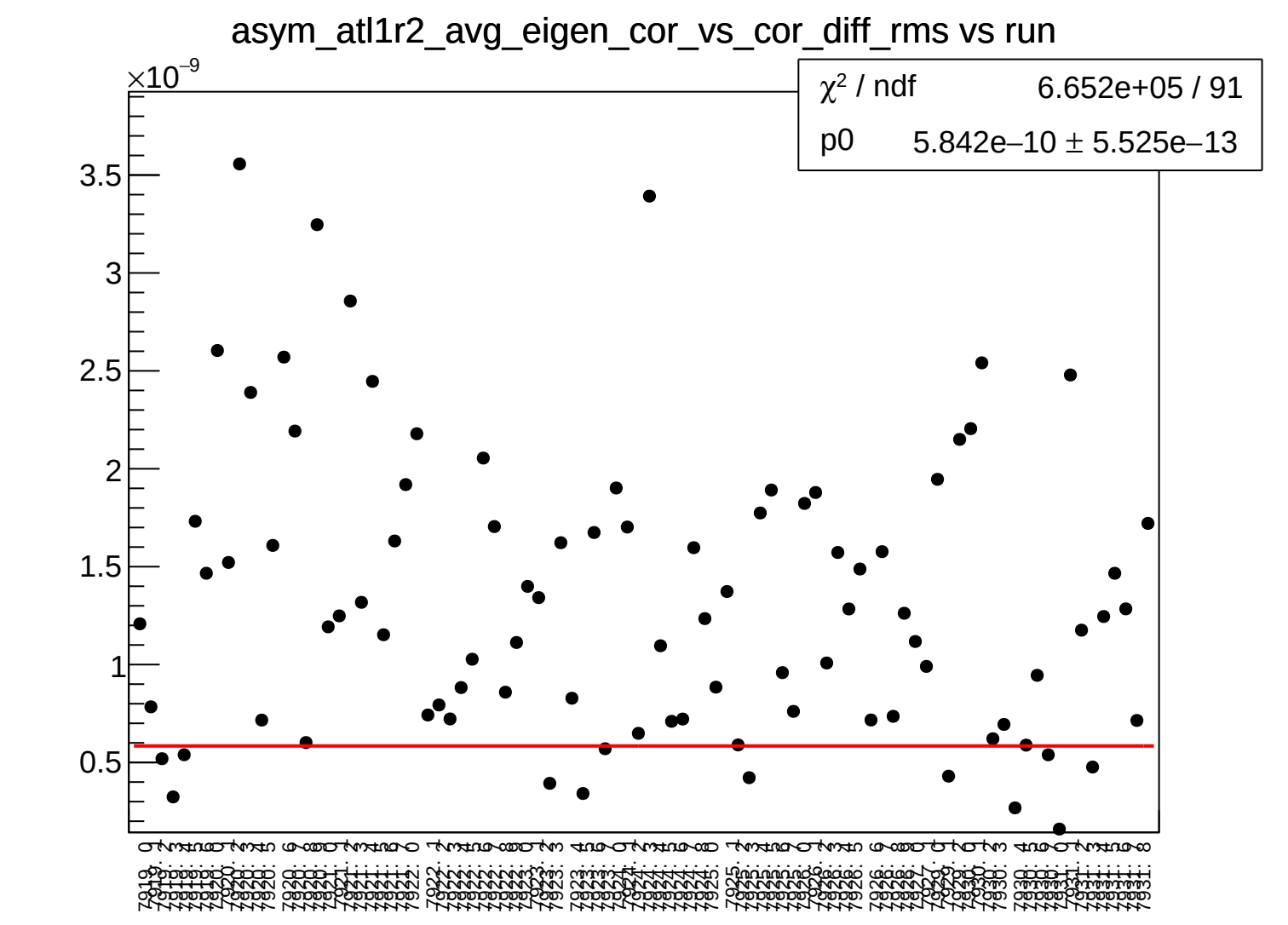

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.99 / 91
p0 −0.1708 ± 0.2401
pull
Entries 92
Mean −140.2
Std Dev 0

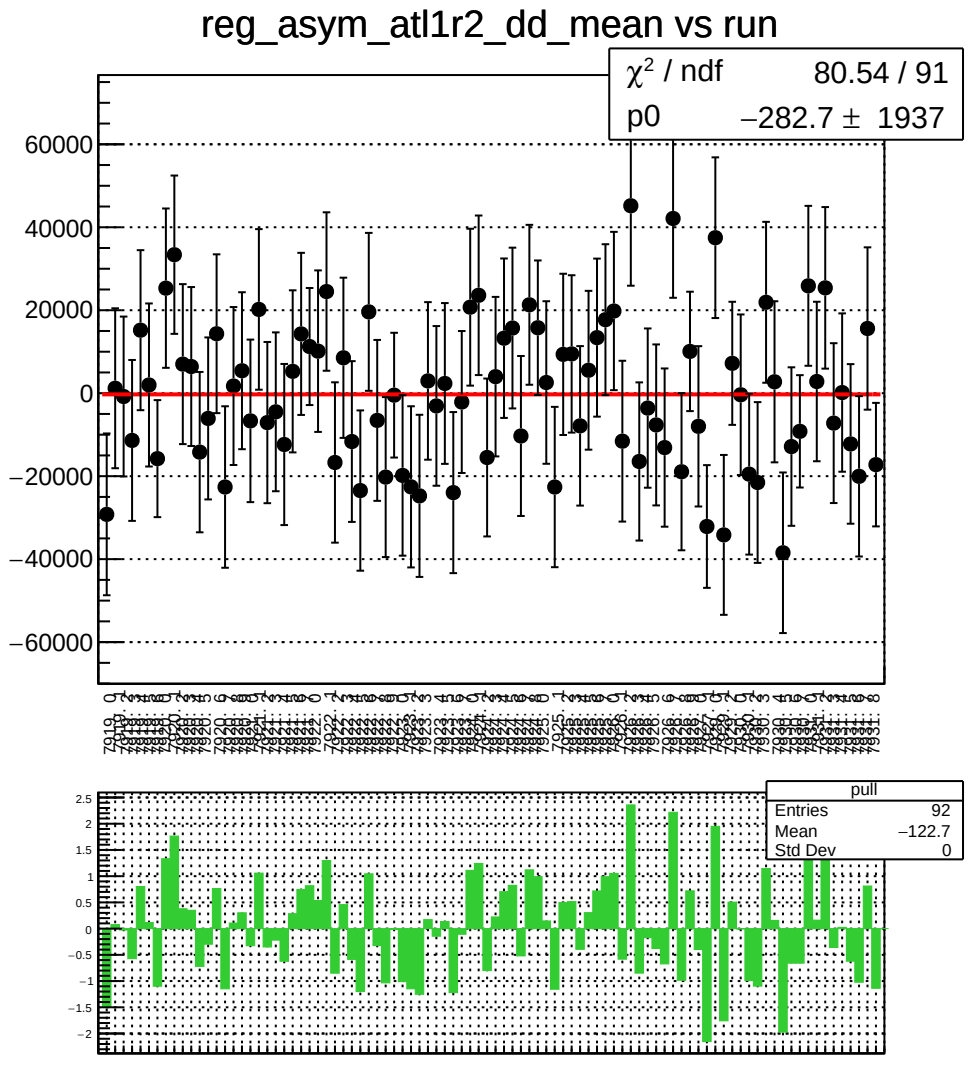

pull1D
Entries 92
Mean 0.02254
Std Dev 1.005

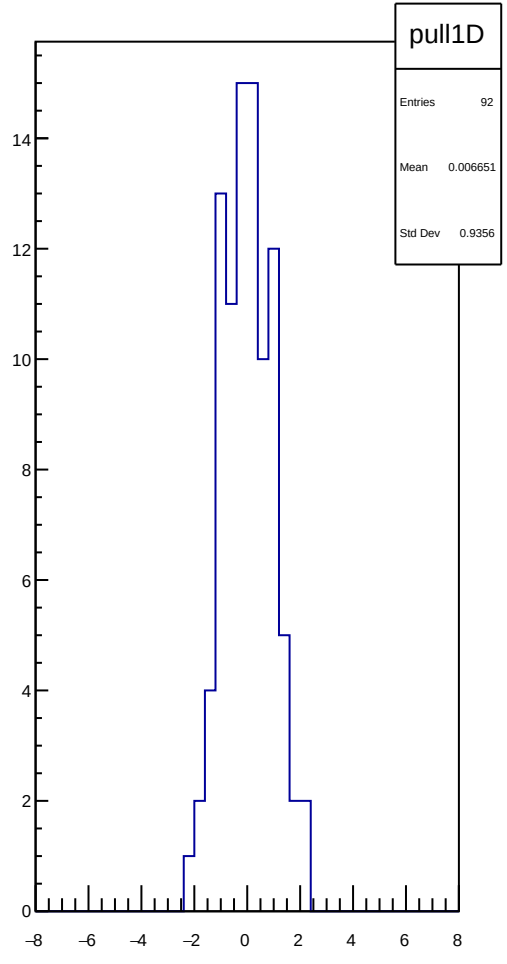

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.361e+04 / 91
p0 225.8 ± 0.1697
280
260
240
220
200
180
160

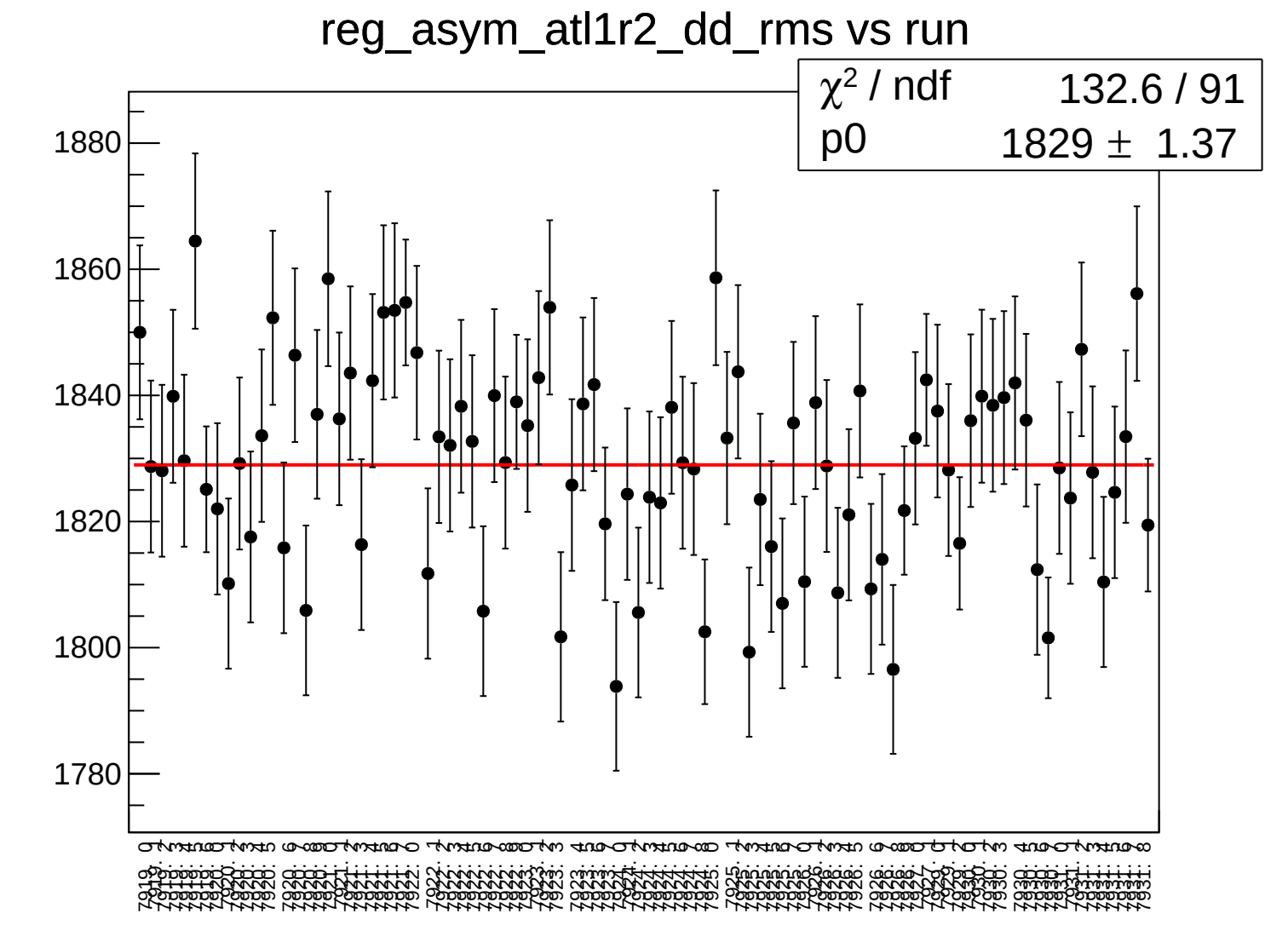

asym_atl1r2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.87 / 91
p0 −3.037e−13 ± 7.814e−13
pull
Entries 92
Mean −61.33
Std Dev 0

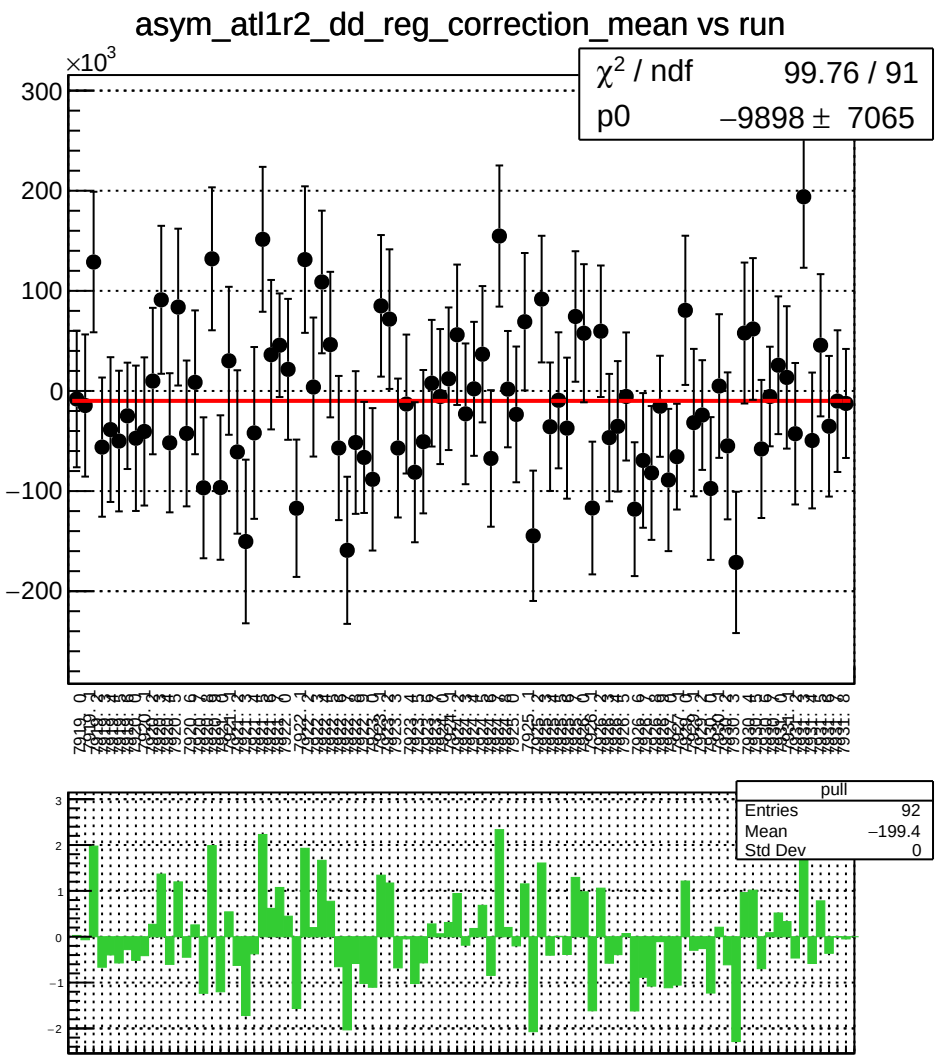

pull1D
Entries 92
Mean 0.02943
Std Dev 0.9544

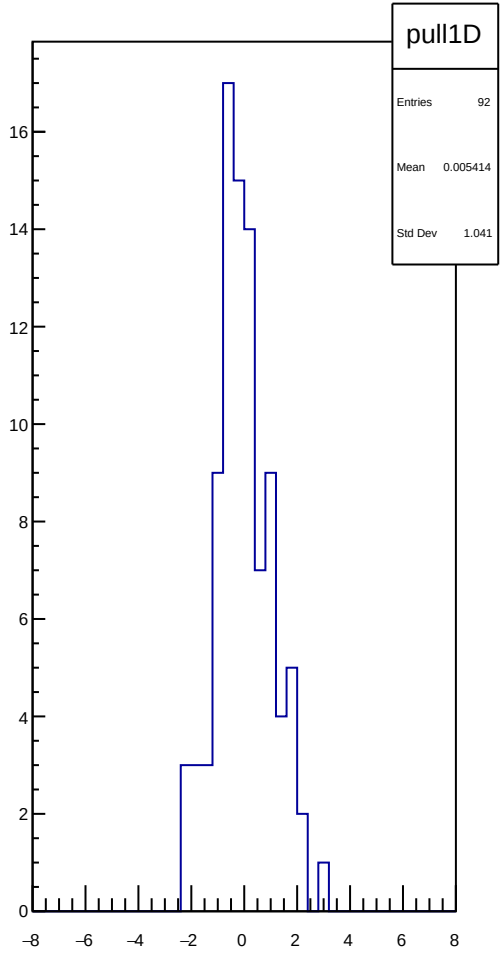

asym_atl1r2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.652e+05 / 91
p0 5.842e−10 ± 5.525e−13
3.5
3
2.5
2
1.5
1
0.5

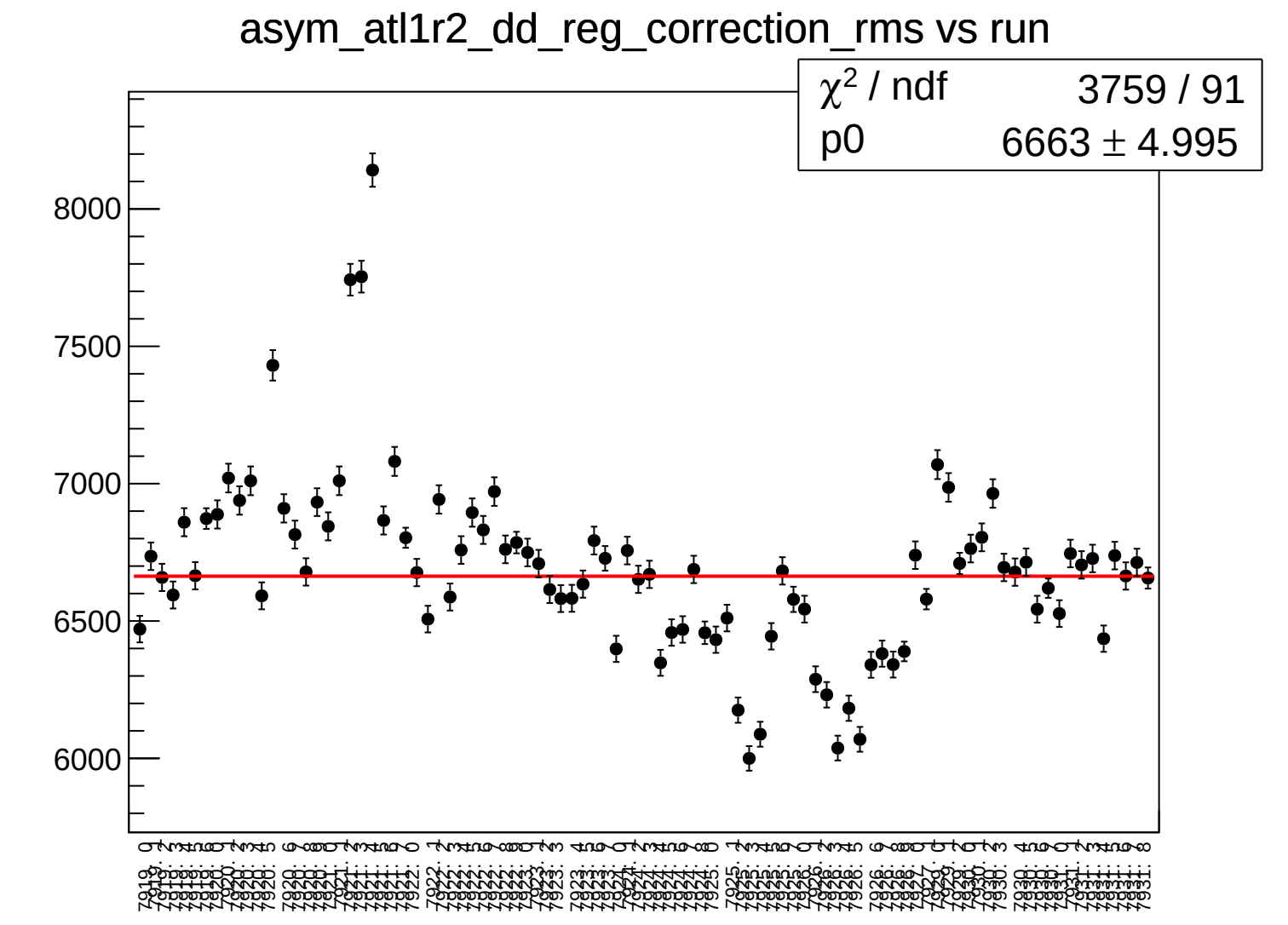

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 80.54 / 91
p0 −282.7 ± 1937
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −122.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

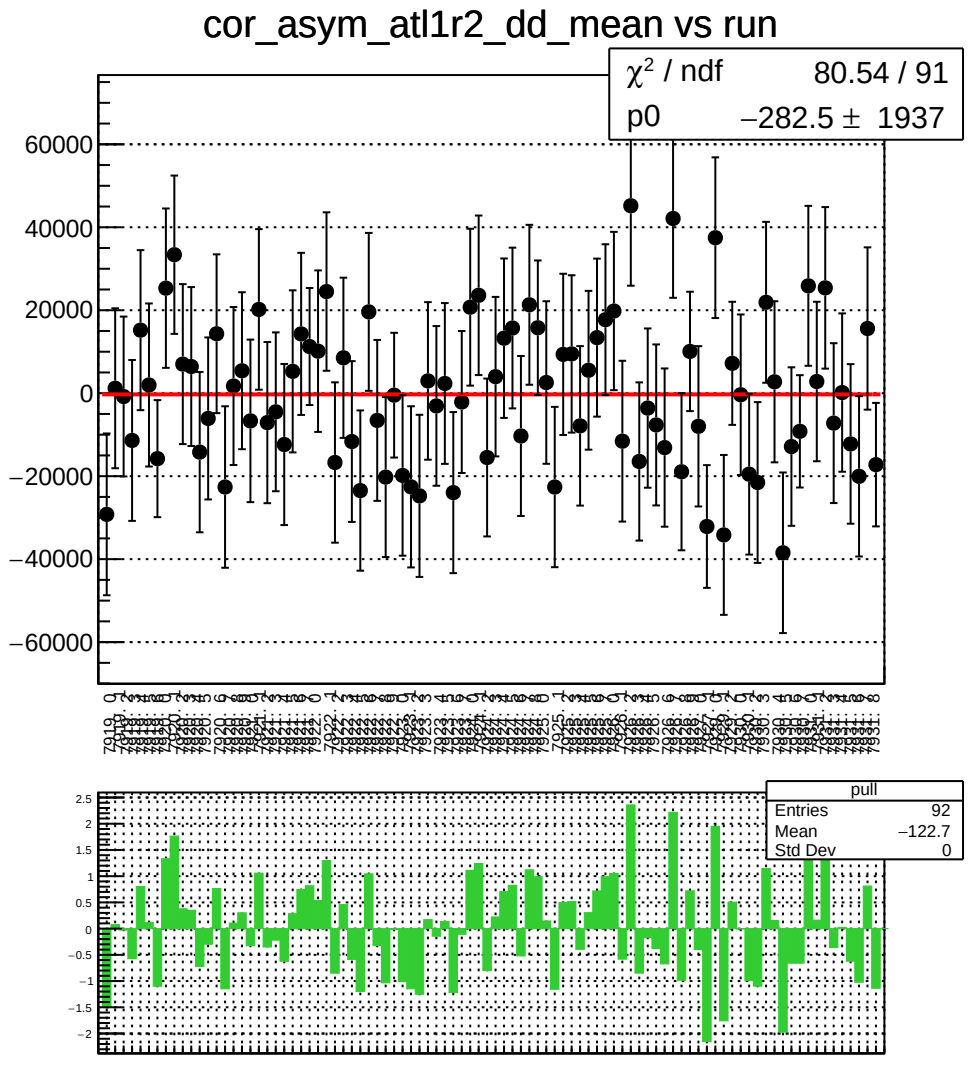

pull1D
Entries 92
Mean 0.006651
Std Dev 0.9356
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

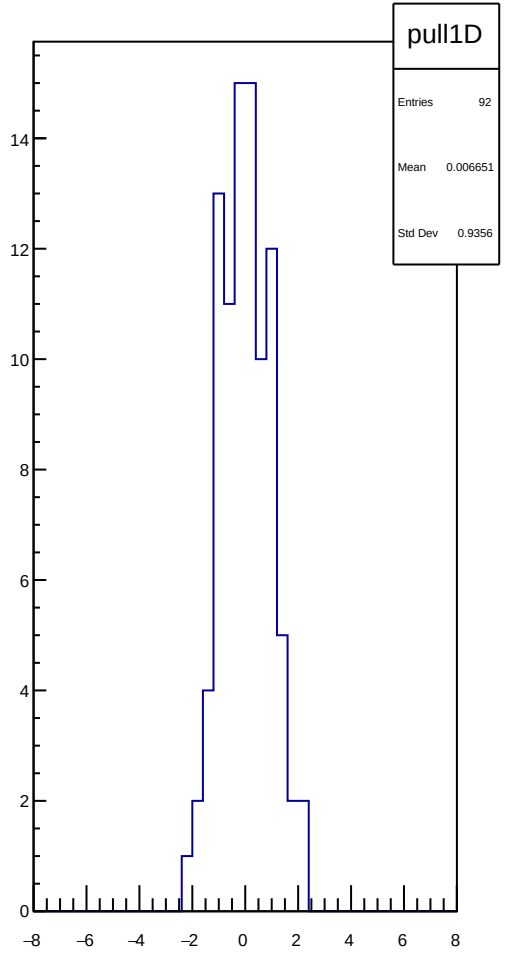

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 132.6 / 91
p0 1829 ± 1.37
1880
1860
1840
1820
1800
1780

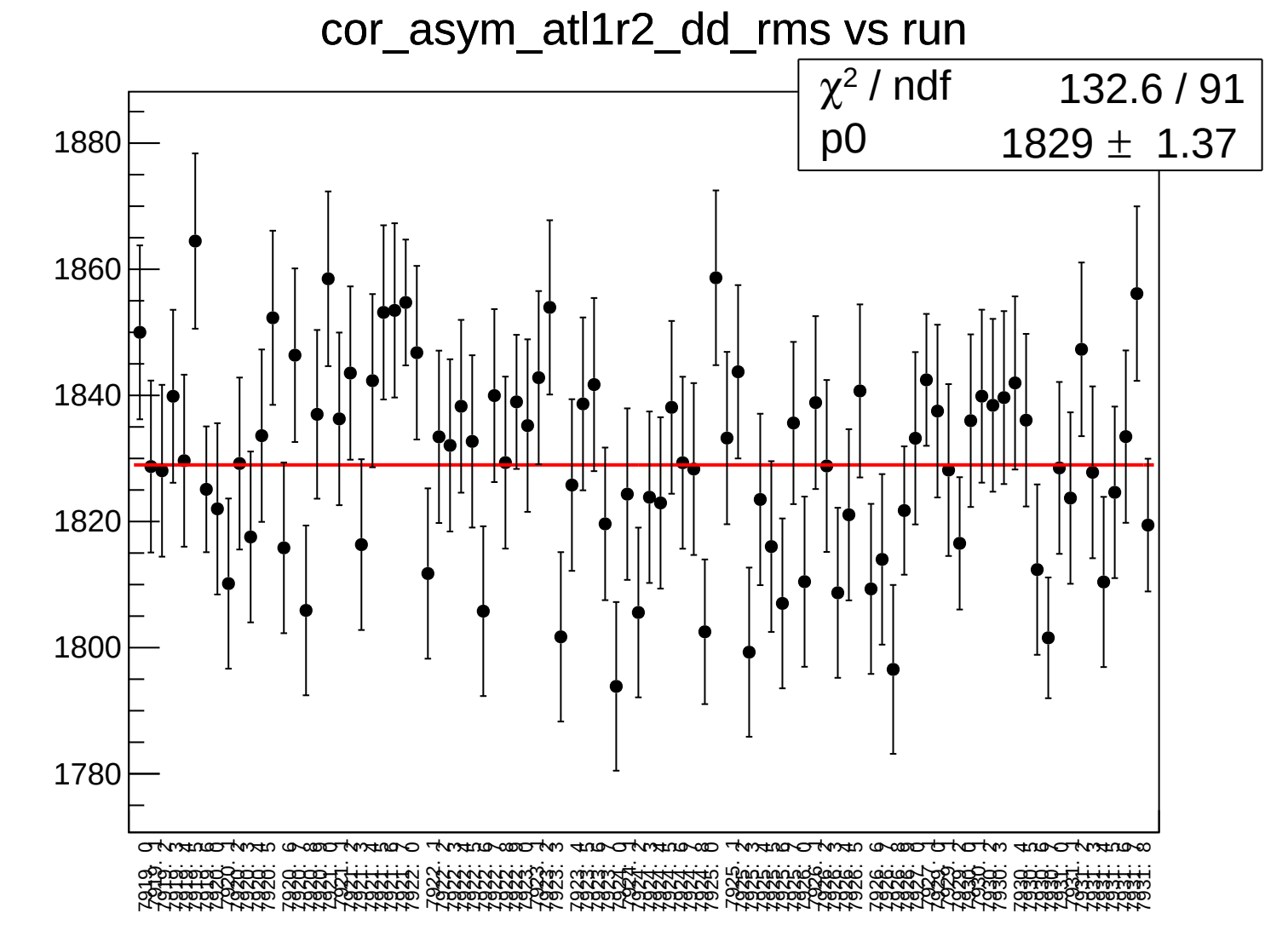

asym_atl1r2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 99.76 / 91
p0 −9898 ± 7065
300
200
100
0
−100
−200
pull
Entries 92
Mean −199.4
Std Dev 0
3
2
1
0
−1
−2

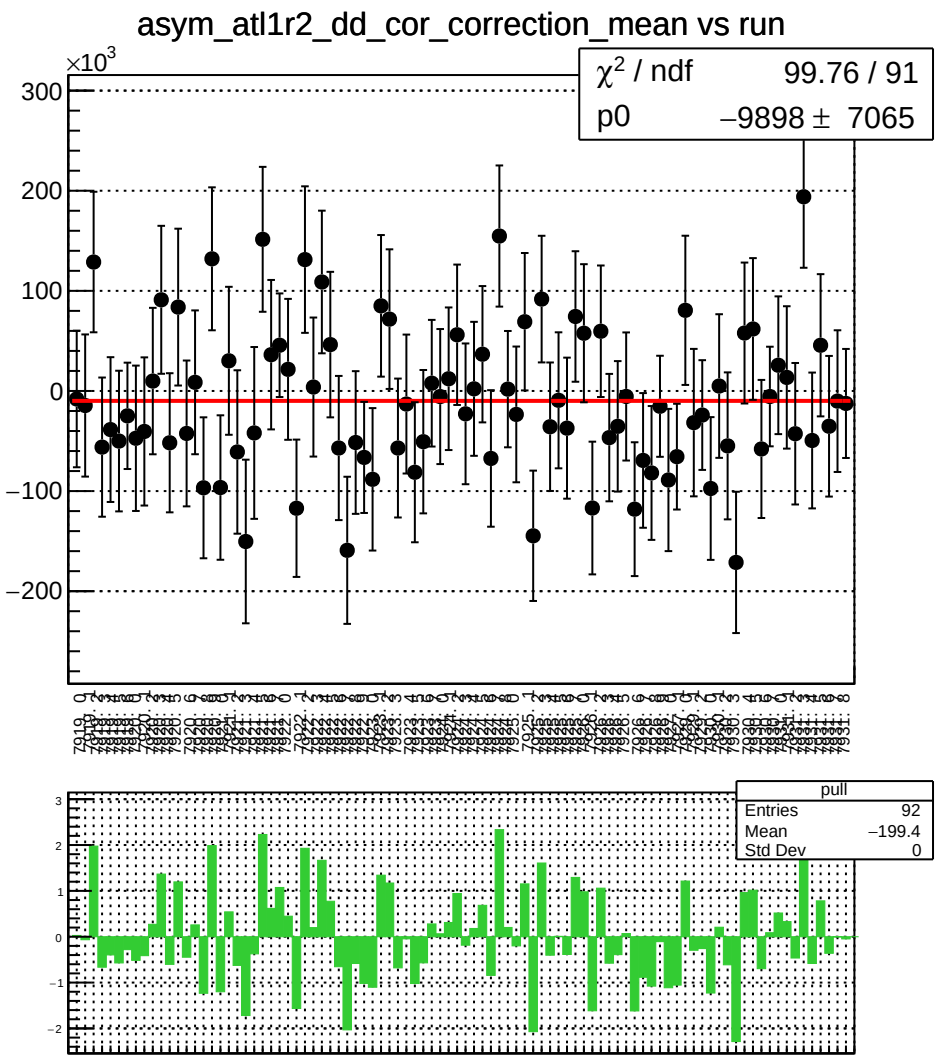

pull1D
Entries 92
Mean 0.005414
Std Dev 1.041
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

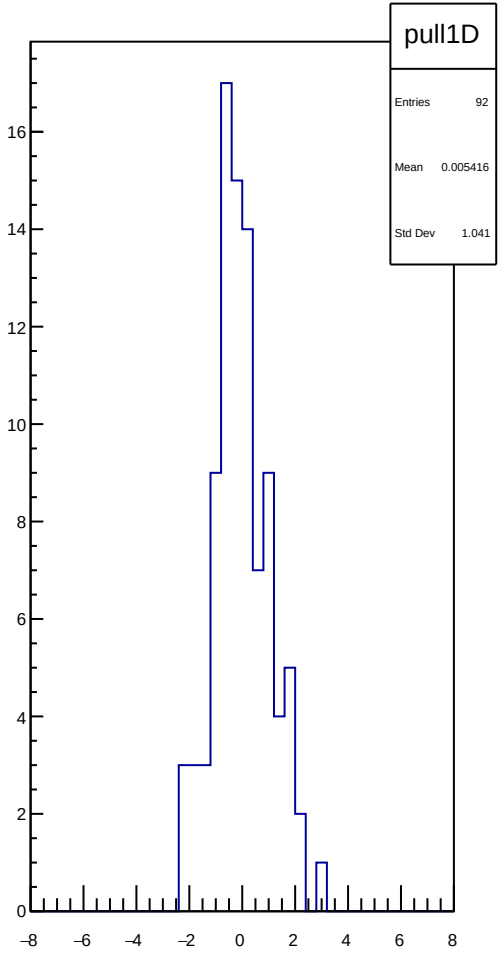

asym_atl1r2_dd_reg_correction_rms vs run
χ² / ndf 3759 / 91
p0 6663 ± 4.995
8000
7500
7000
6500
6000

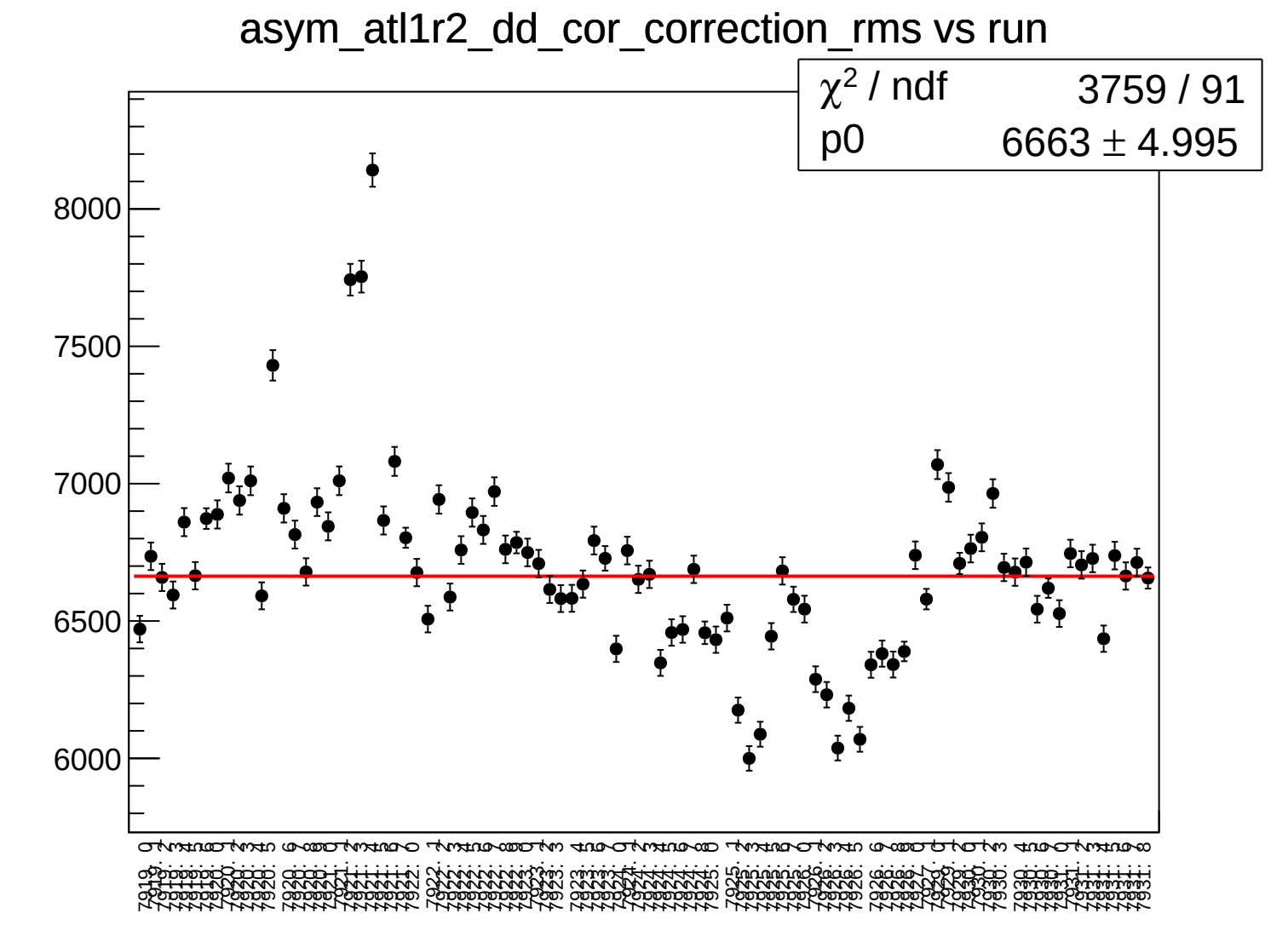

cor_asym_atl1r2_dd_mean vs run
χ² / ndf 80.54 / 91
p0 −282.5 ± 1937
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −122.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

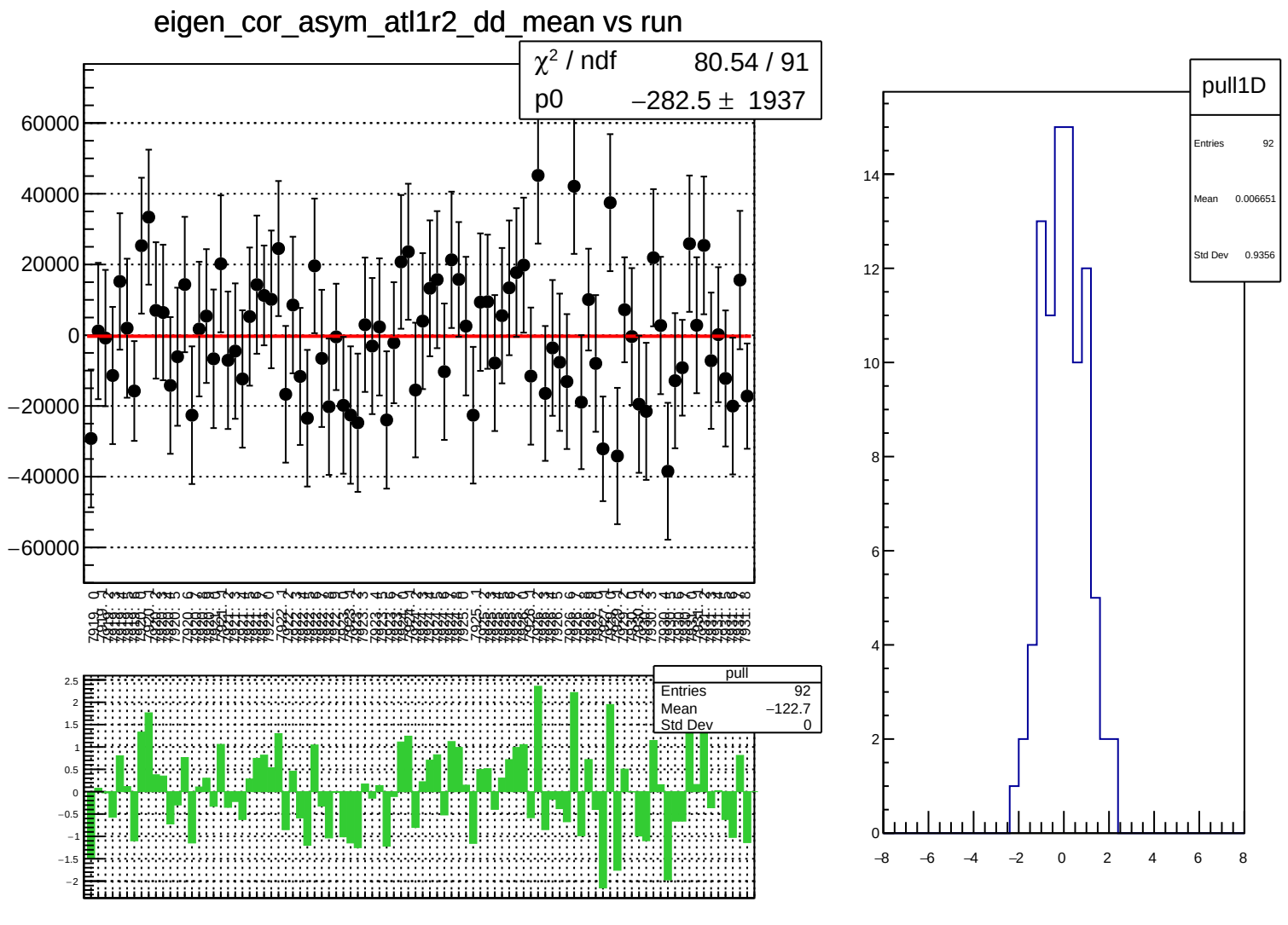

pull1D
Entries 92
Mean 0.006651
Std Dev 0.9356
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

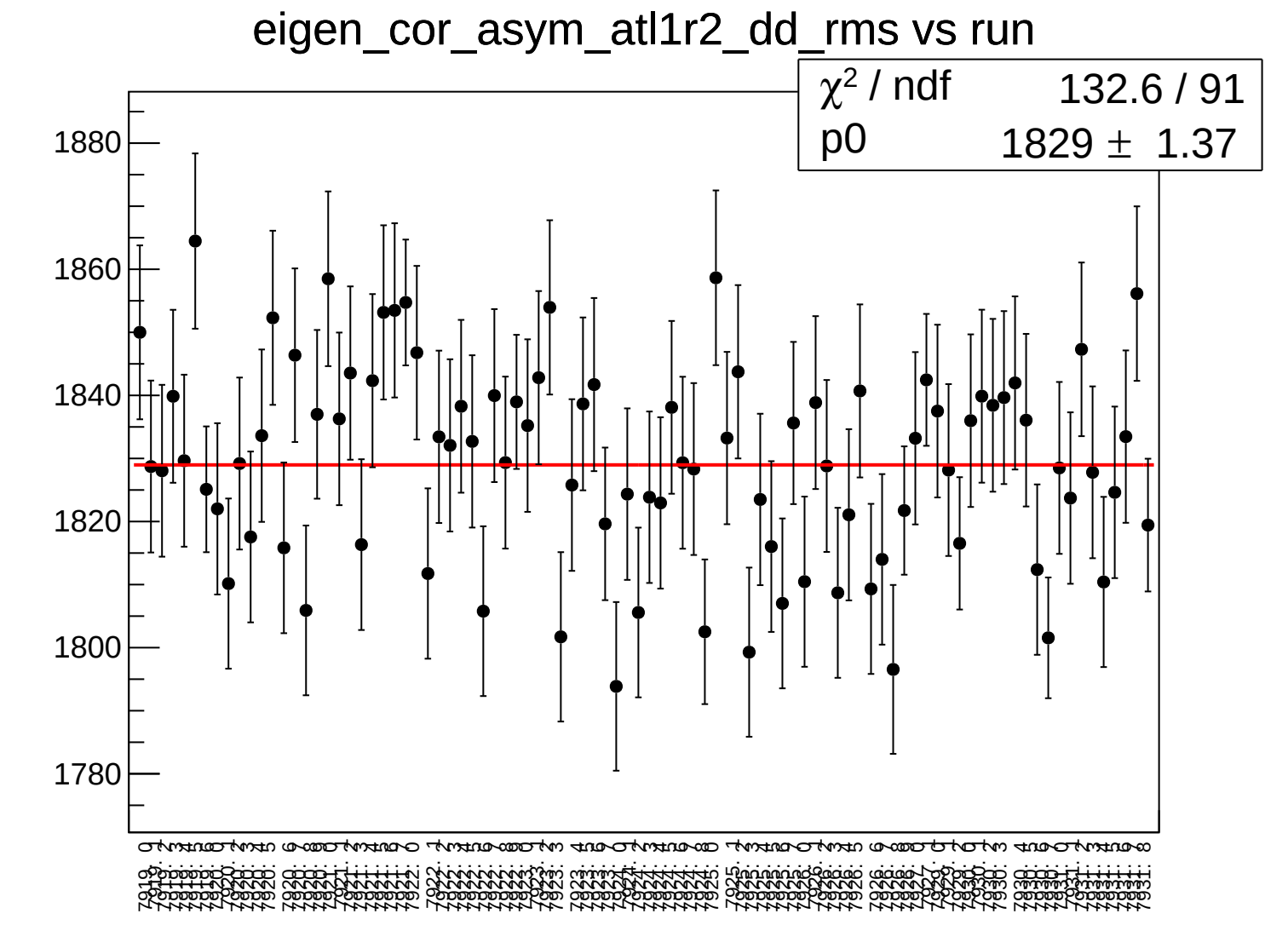

cor_asym_atl1r2_dd_rms vs run
χ^2 / ndf 132.6 / 91
p0 1829 ± 1.37
1880
1860
1840
1820
1800
1780

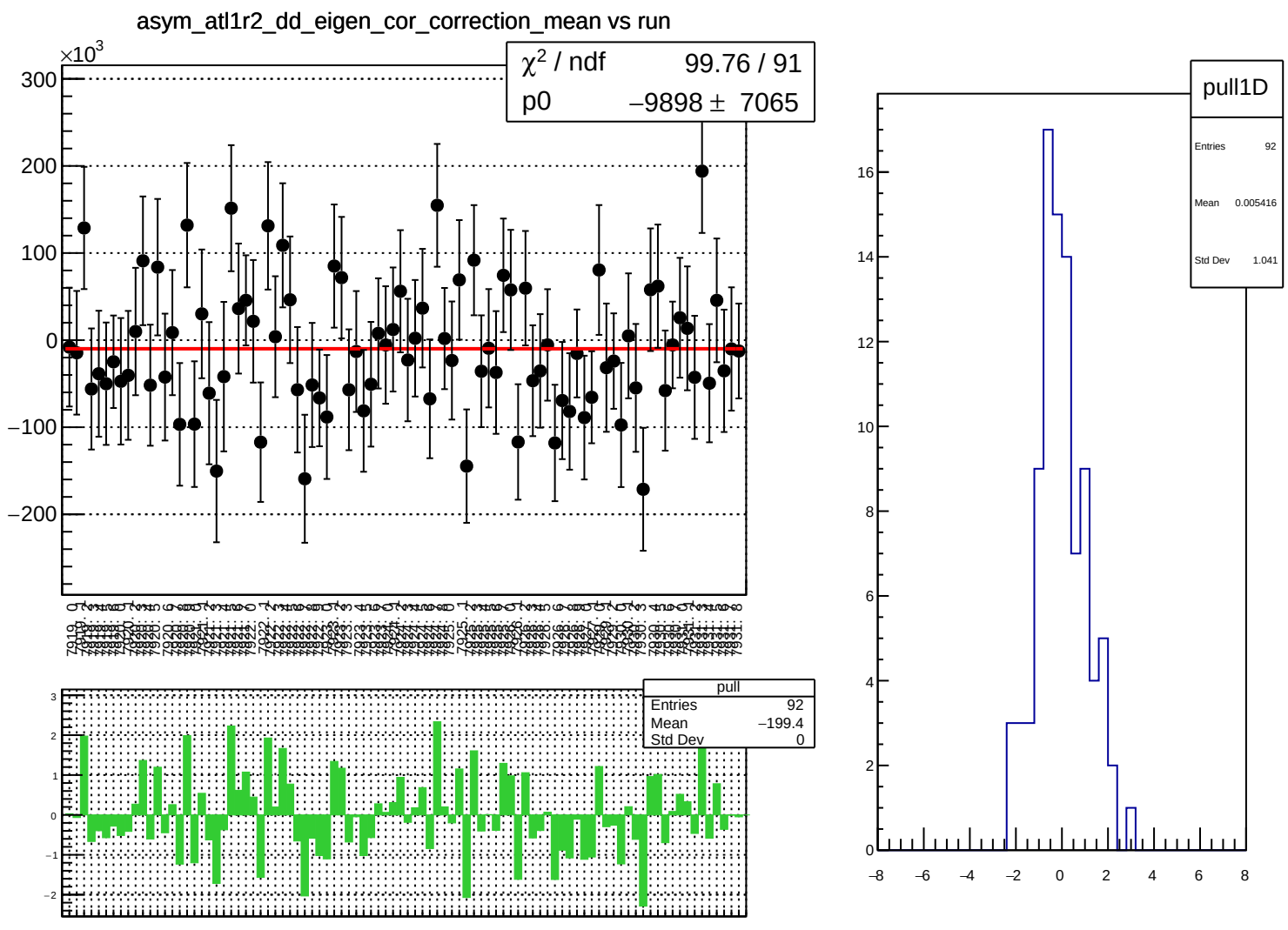

asym_atl1r2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 99.76 / 91
p0 −9898 ± 7065
pull
Entries 92
Mean −199.4
Std Dev 0

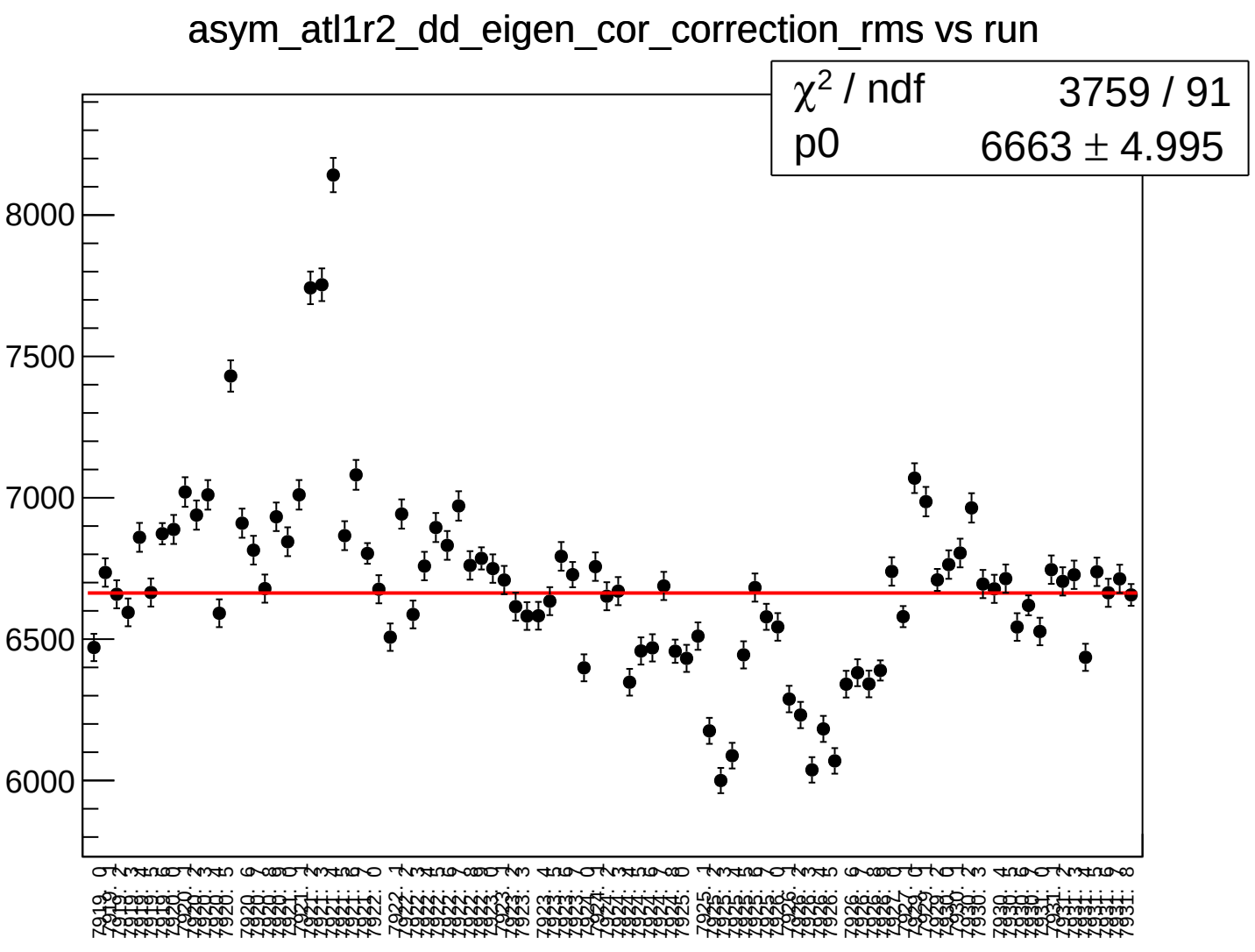

pull1D
Entries 92
Mean 0.005416
Std Dev 1.041

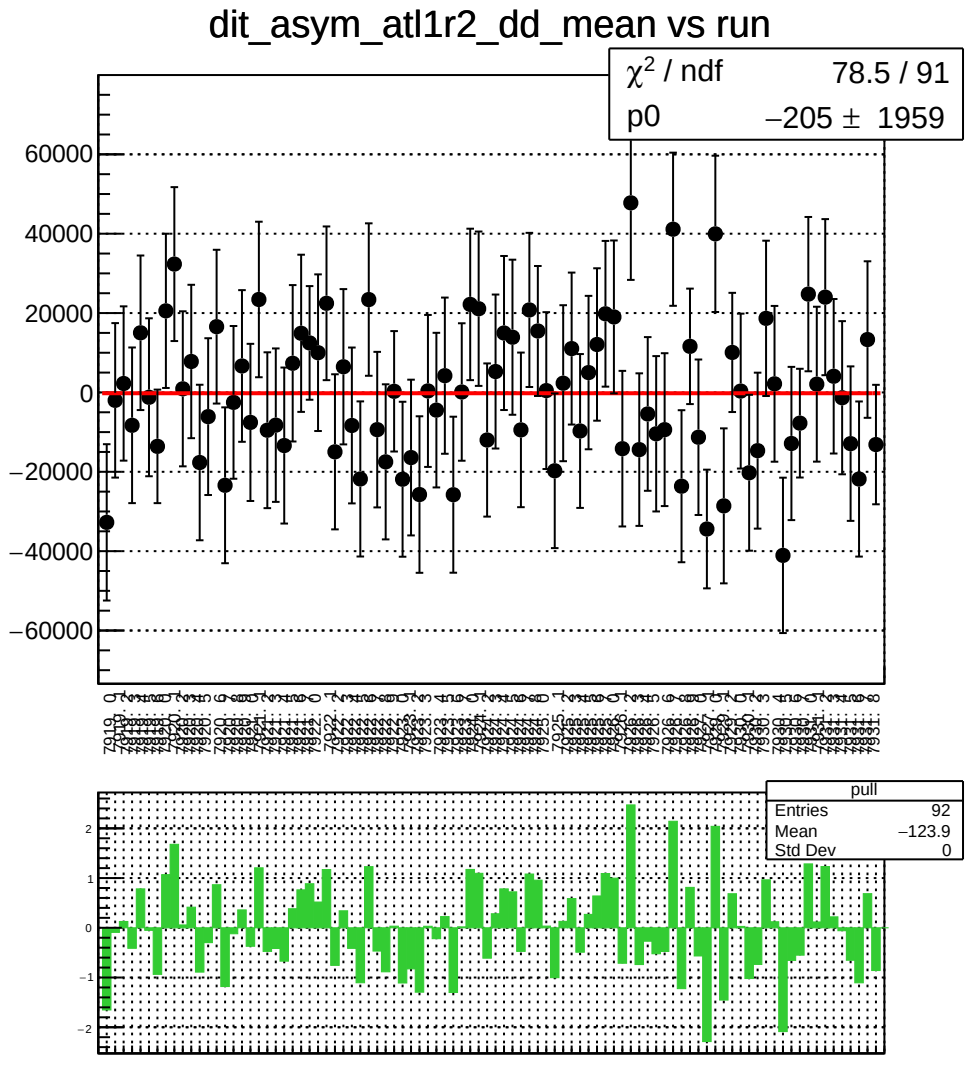

asym_atl1r2_dd_cor_correction_rms vs run
χ² / ndf 3759 / 91
p0 6663 ± 4.995
8000
7500
7000
6500
6000

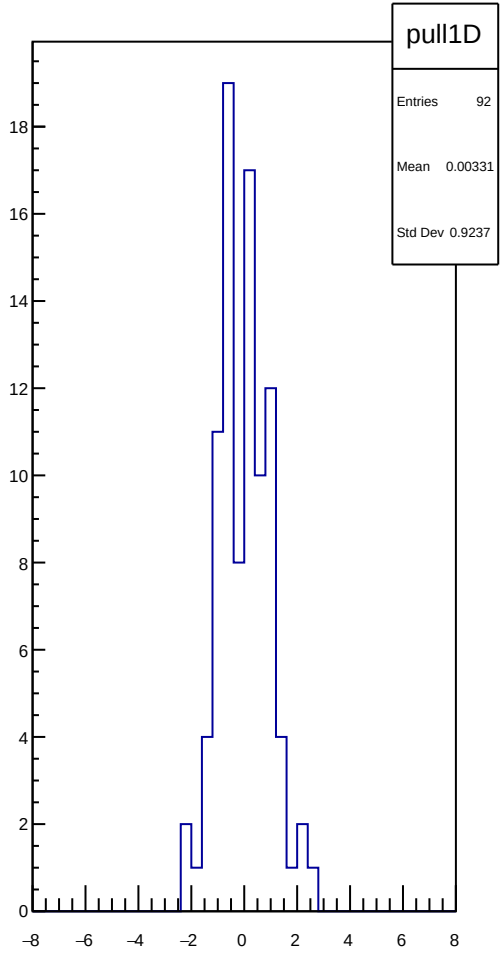

eigen_cor_asym_atl1r2_dd_mean vs run
χ² / ndf 80.54 / 91
p0 −282.5 ± 1937
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −122.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean 0.006651
Std Dev 0.9356
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

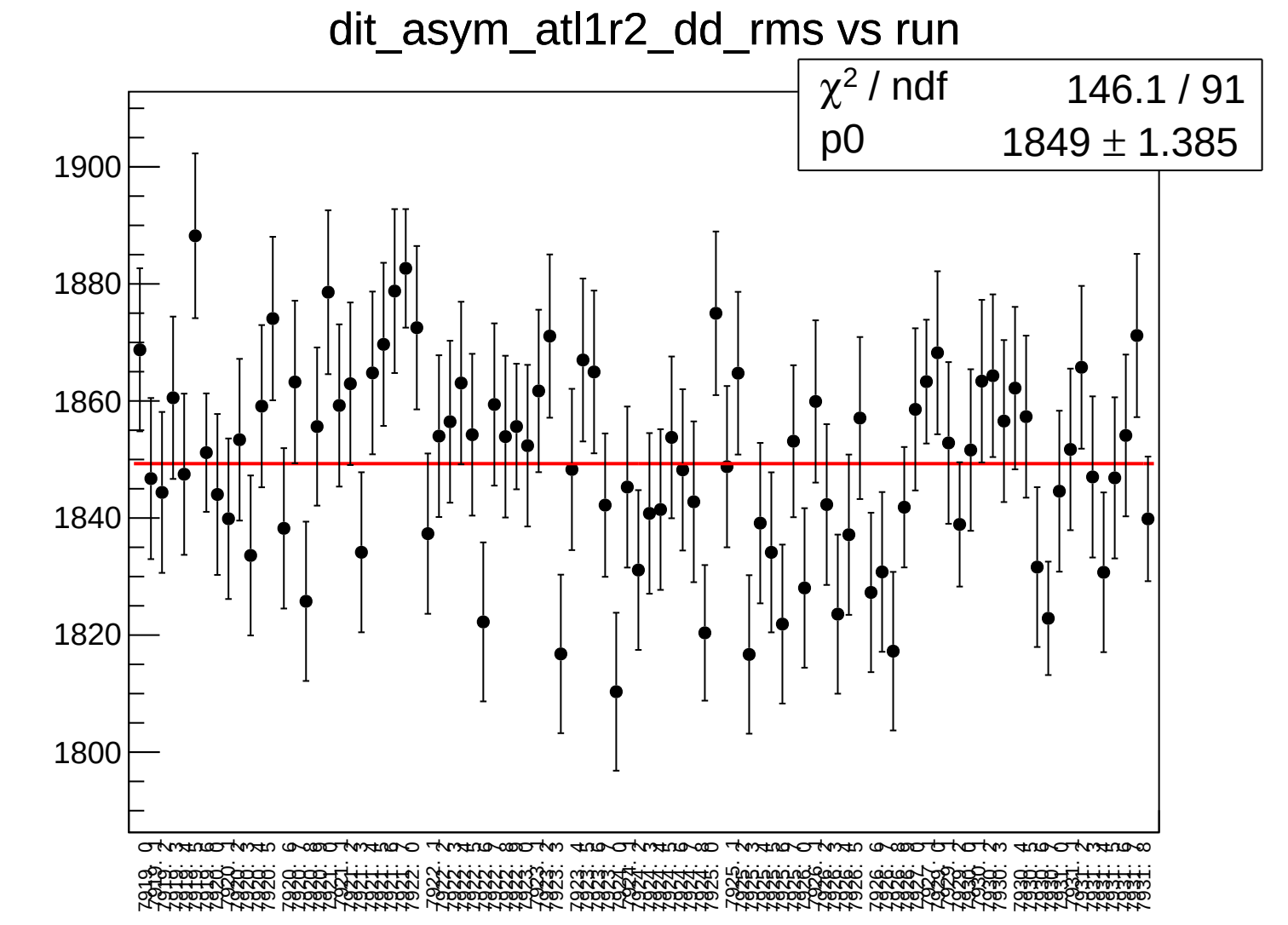

eigen_cor_asym_atl1r2_dd_rms vs run
χ^2 / ndf 132.6 / 91
p0 1829 ± 1.37
1880
1860
1840
1820
1800
1780

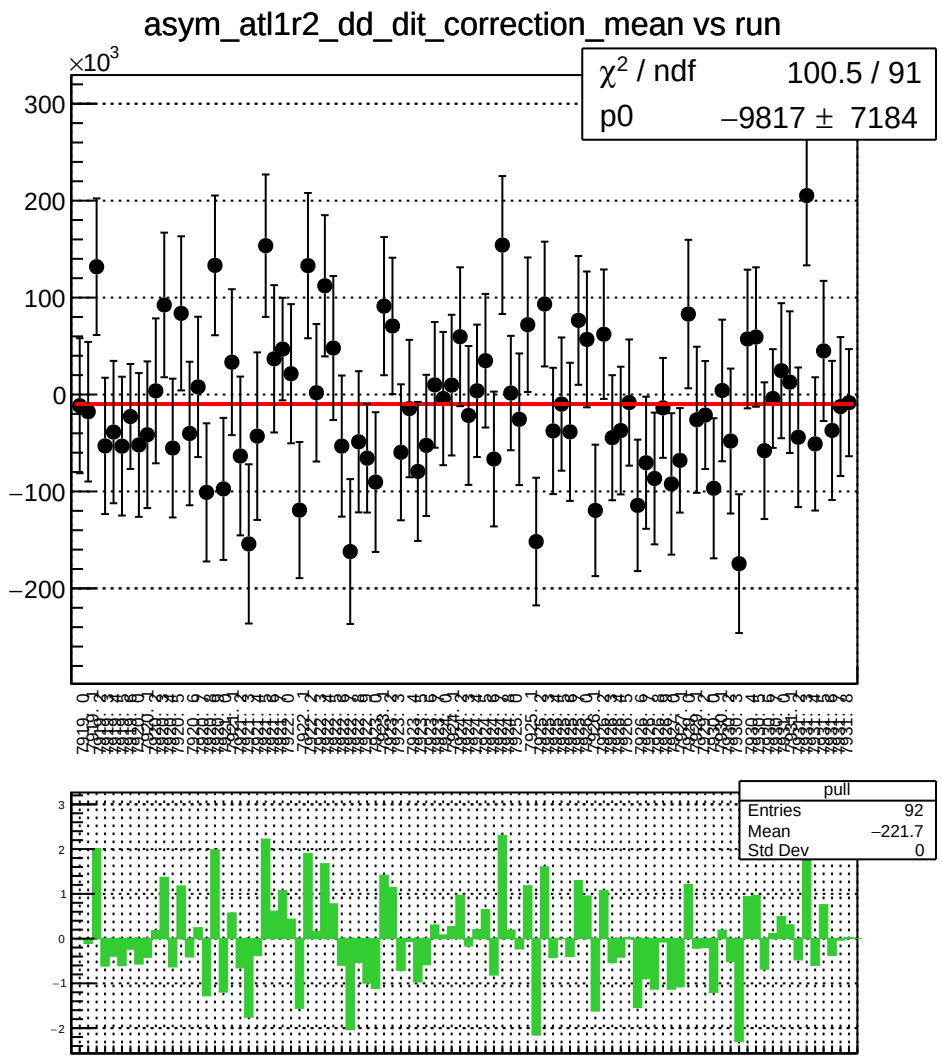

asym_atl1r2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 99.76 / 91
p0 −9898 ± 7065
pull
Entries 92
Mean −199.4
Std Dev 0
pull1D
Entries 92
Mean 0.005416
Std Dev 1.041

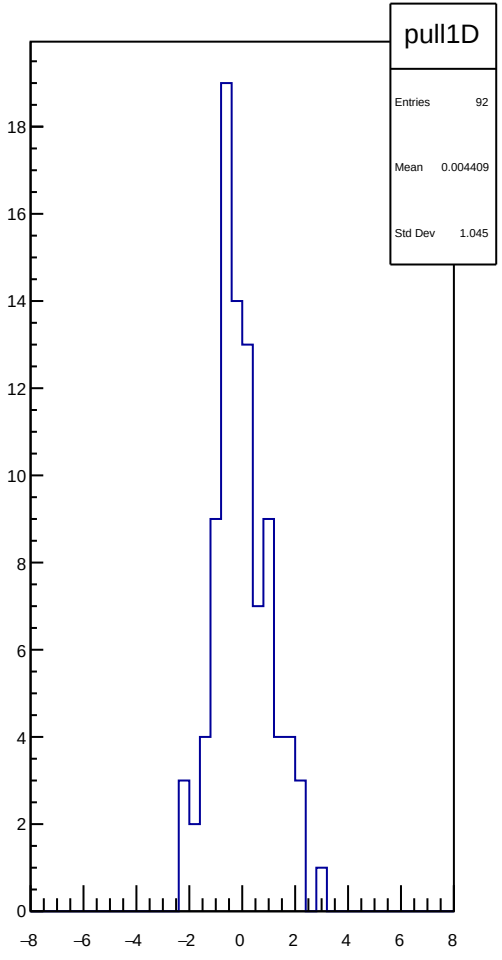

asym_atl1r2_dd_eigen_cor_correction_rms vs run
χ² / ndf 3759 / 91
p0 6663 ± 4.995
8000
7500
7000
6500
6000

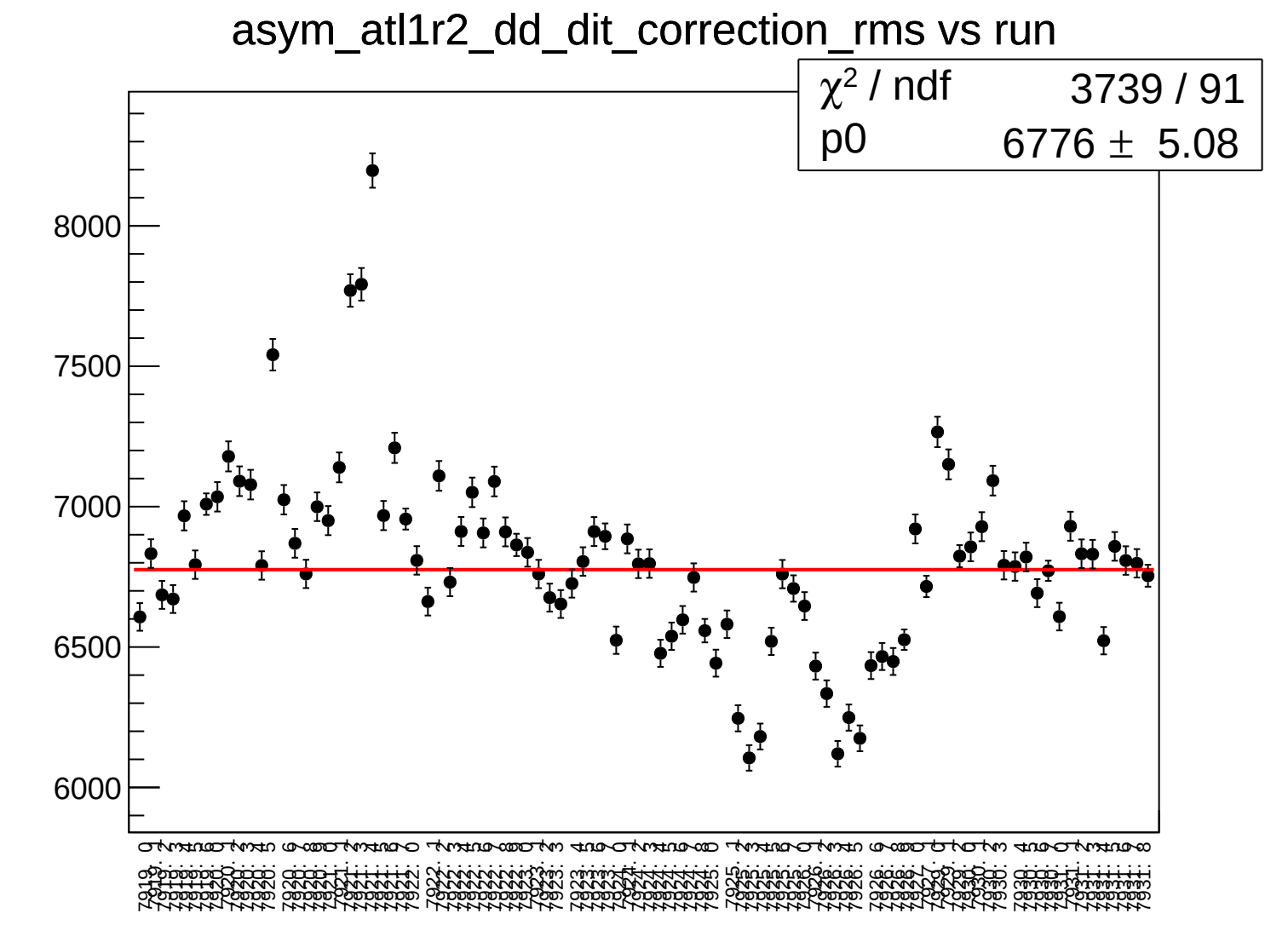

dit_asym_atl1r2_dd_mean vs run
χ² / ndf 78.5 / 91
p0 −205 ± 1959
pull
Entries 92
Mean −123.9
Std Dev 0

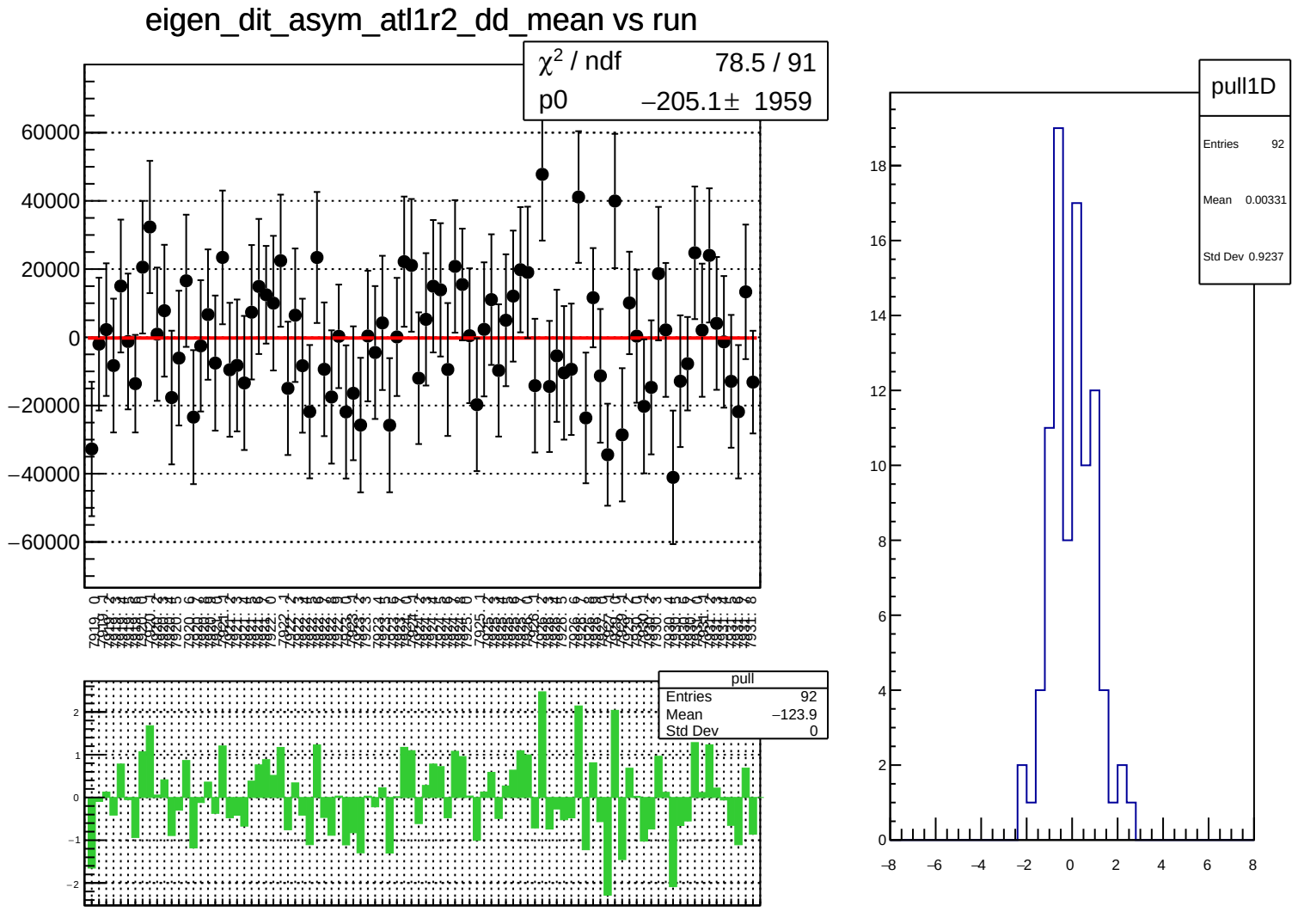

pull1D
Entries 92
Mean 0.00331
Std Dev 0.9237

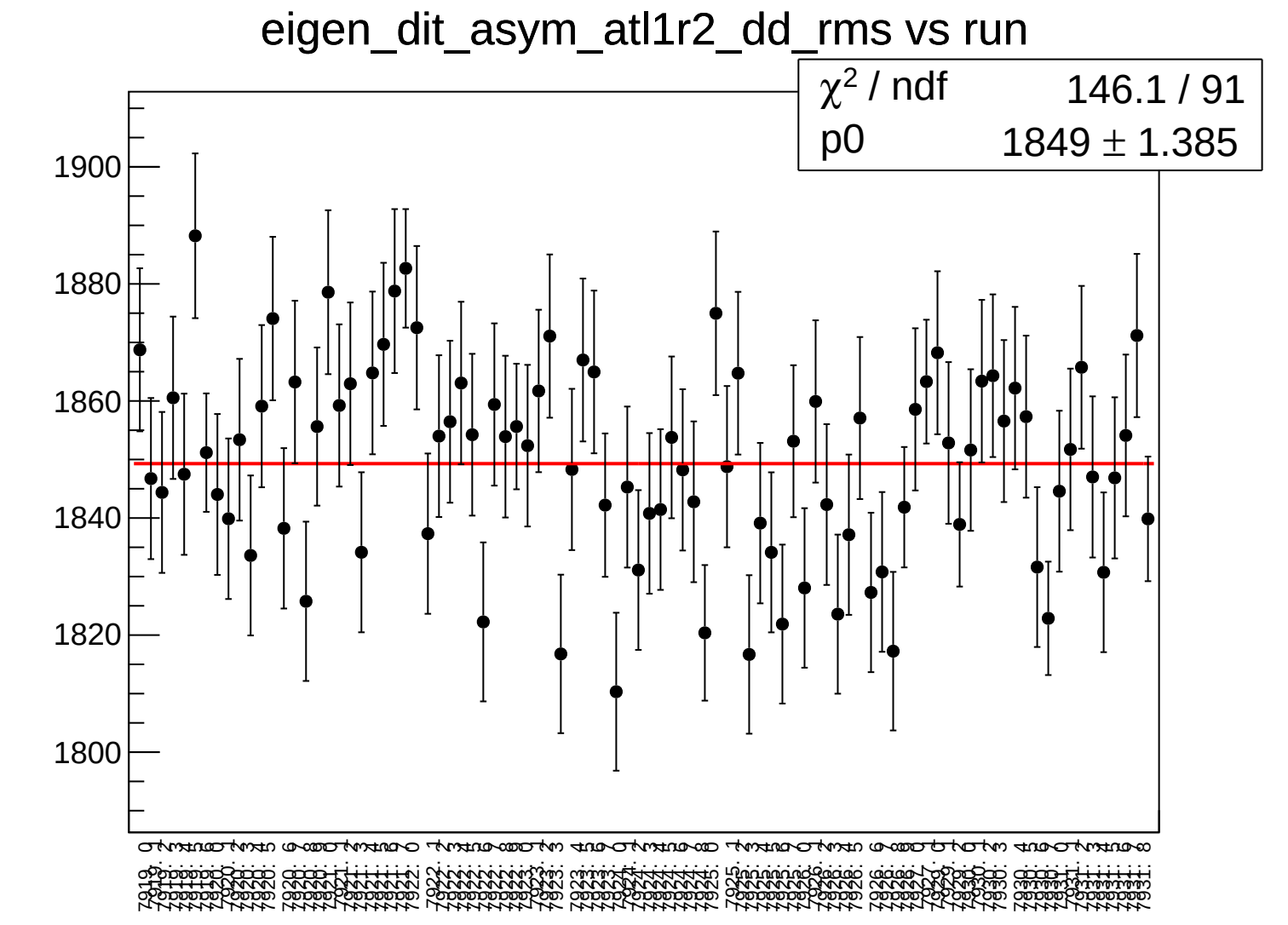

dit_asym_atl1r2_dd_rms vs run
χ² / ndf 146.1 / 91
p0 1849 ± 1.385
1900
1880
1860
1840
1820
1800

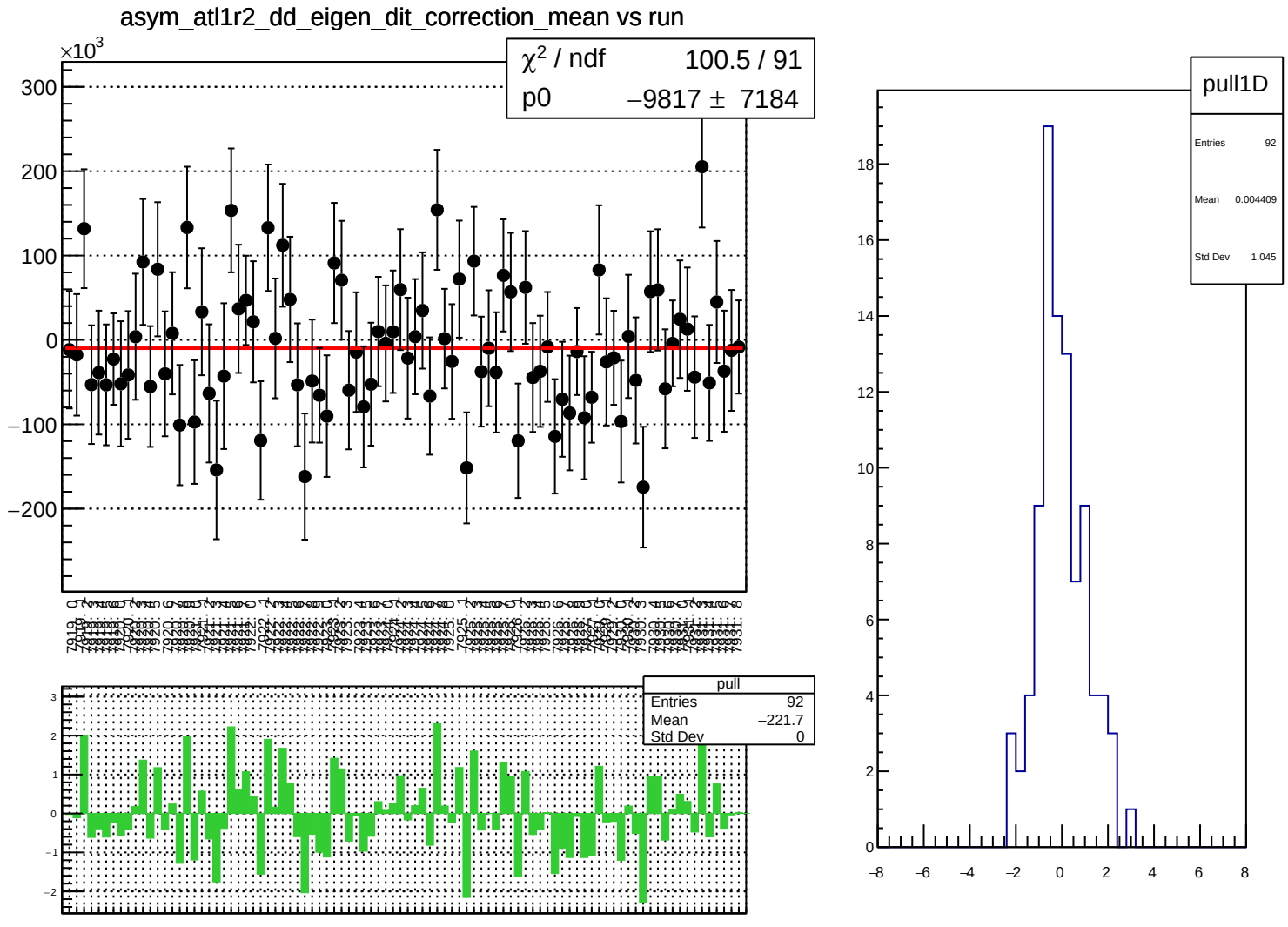

asym_atl1r2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 100.5 / 91
p0 −9817 ± 7184
300
200
100
0
−100
−200
pull
Entries 92
Mean −221.7
Std Dev 0
3
2
1
0
−1
−2

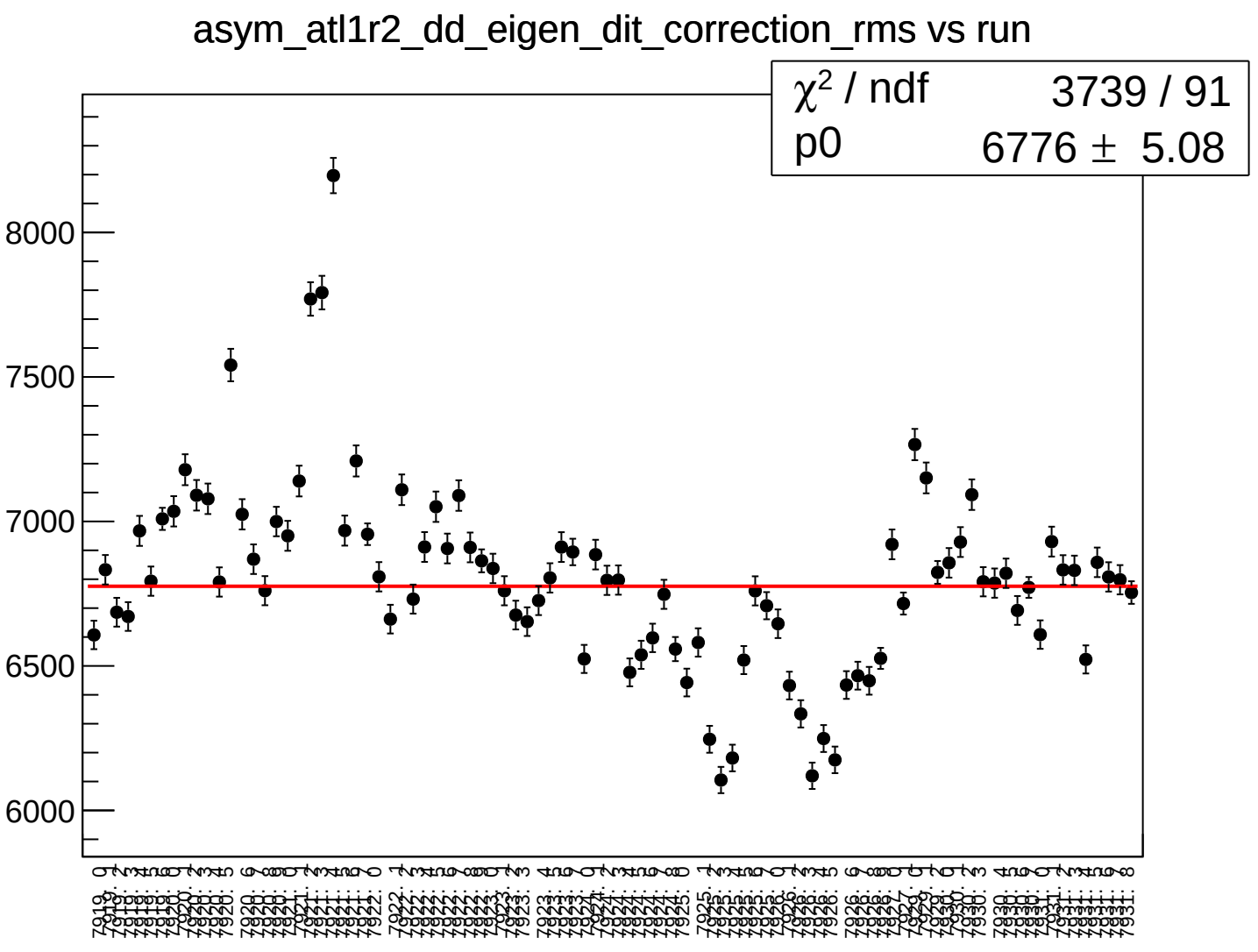

pull1D
Entries 92
Mean 0.004409
Std Dev 1.045
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

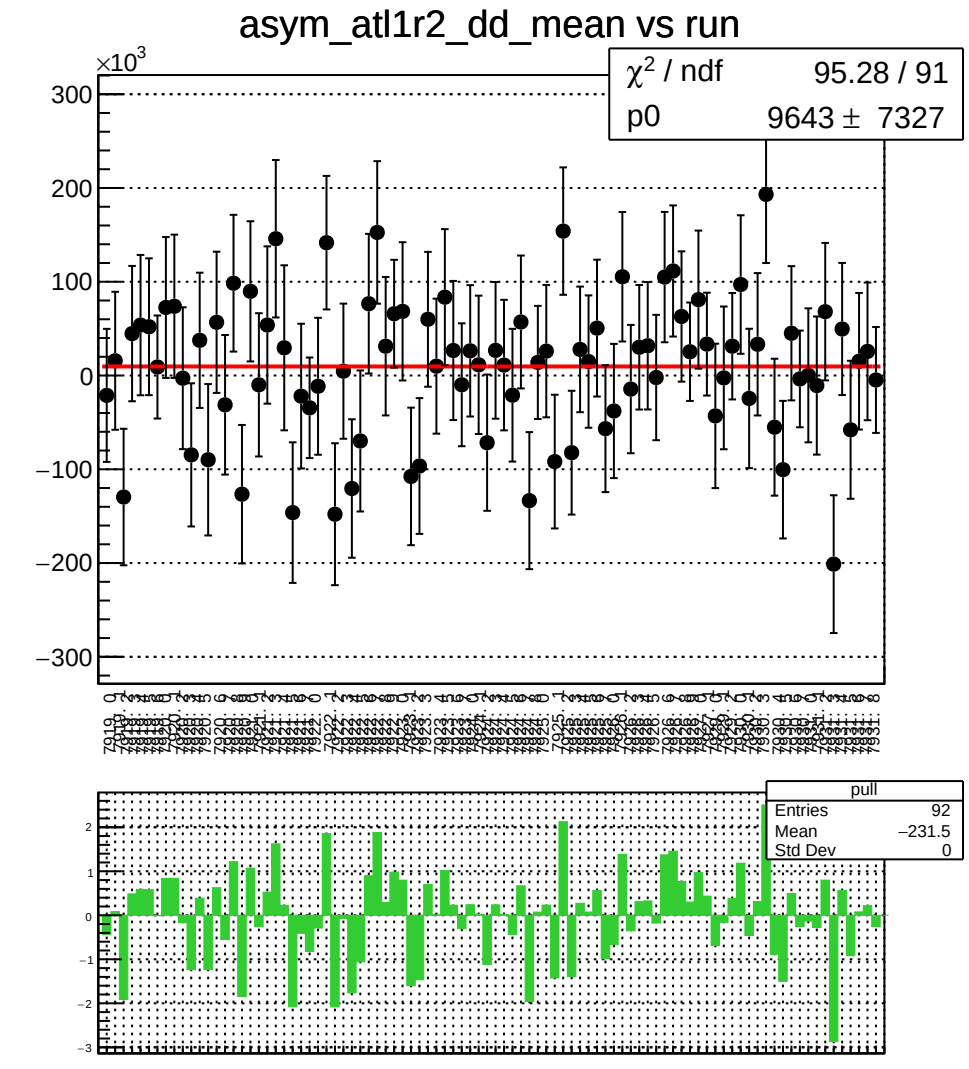

asym_atl1r2_dd_dit_correction_rms vs run
χ² / ndf 3739 / 91
p0 6776 ± 5.08
8000
7500
7000
6500
6000

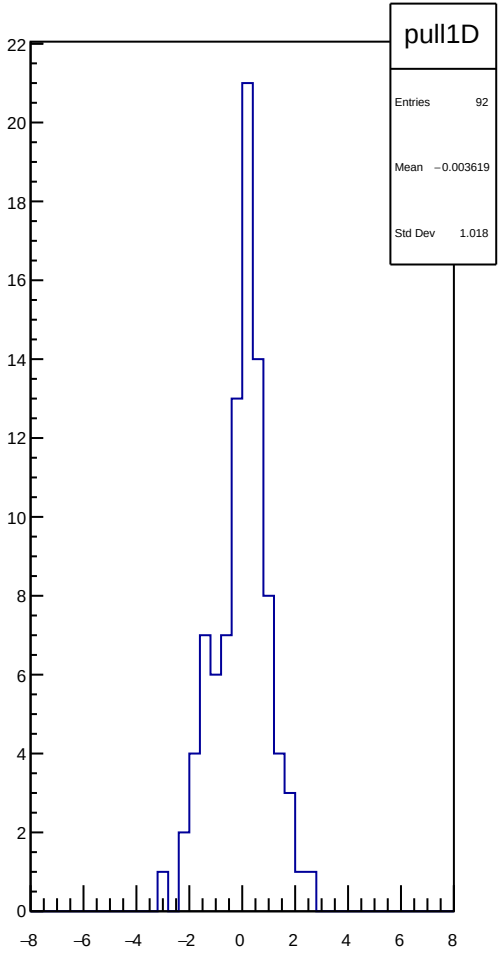

eigen_dit_asym_atl1r2_dd_mean vs run
χ² / ndf 78.5 / 91
p0 −205.1± 1959
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −123.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.00331
Std Dev 0.9237
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

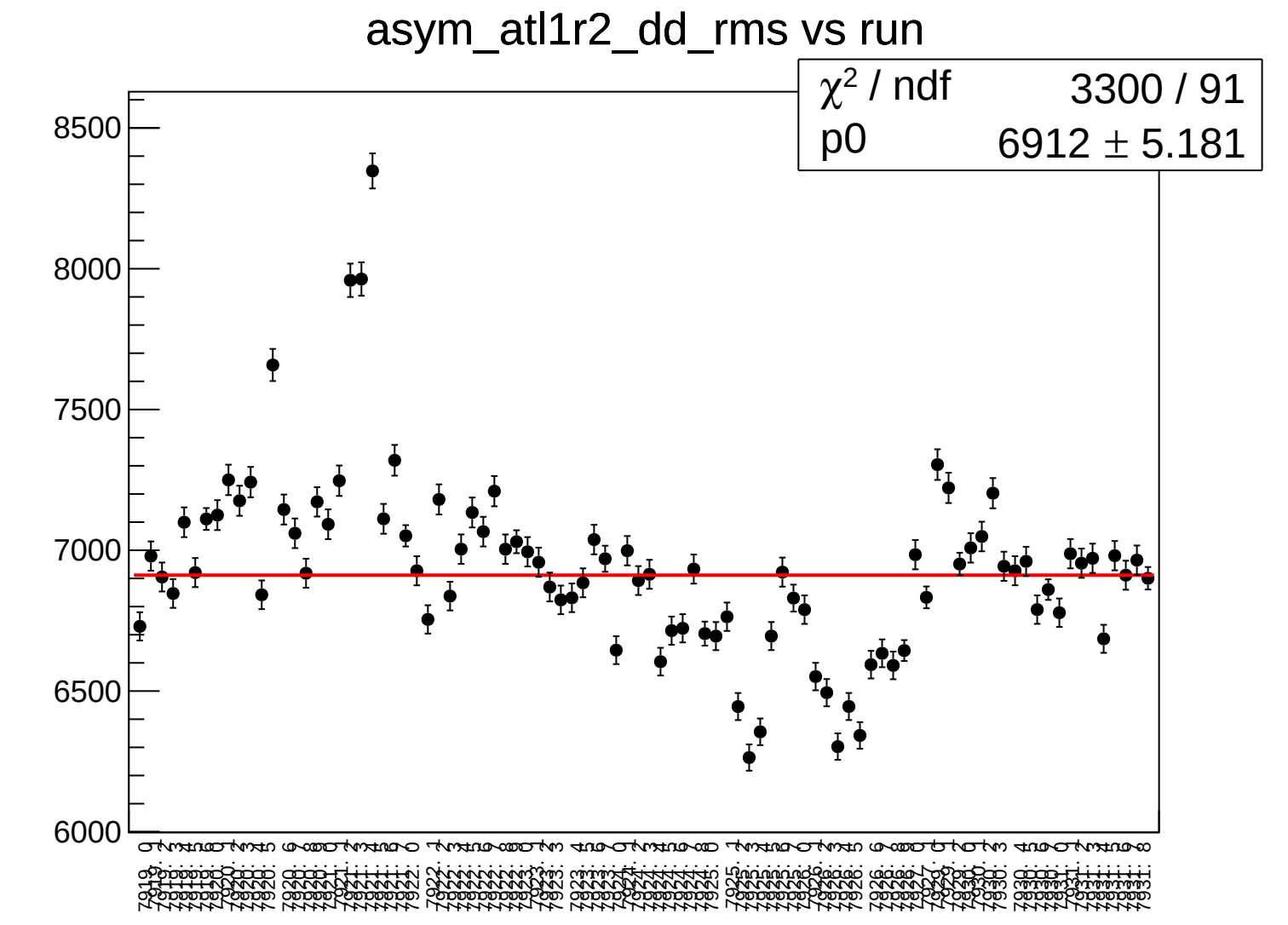

eigen_dit_asym_atl1r2_dd_rms vs run
χ² / ndf 146.1 / 91
p0 1849 ± 1.385
1900
1880
1860
1840
1820
1800

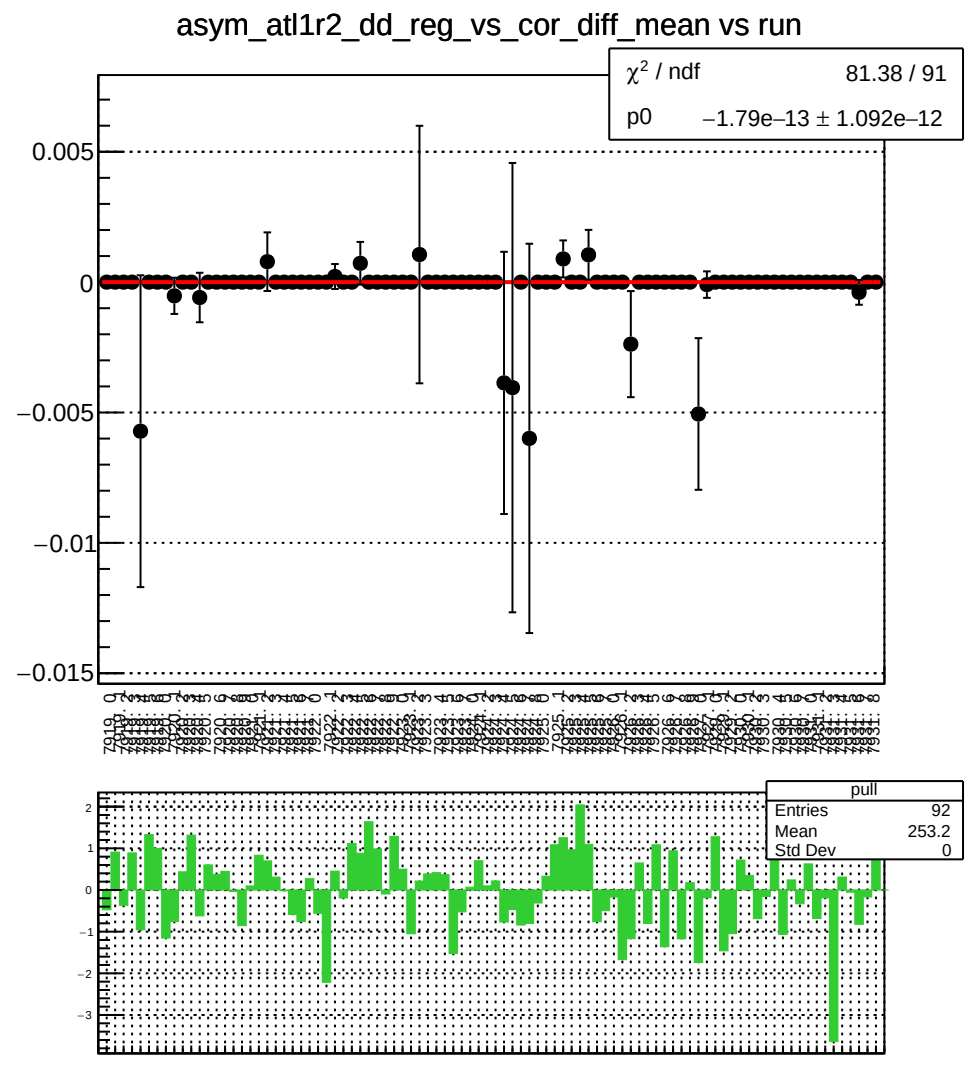

asym_atl1r2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 100.5 / 91
p0 −9817 ± 7184
pull
Entries 92
Mean −221.7
Std Dev 0
pull1D
Entries 92
Mean 0.004409
Std Dev 1.045

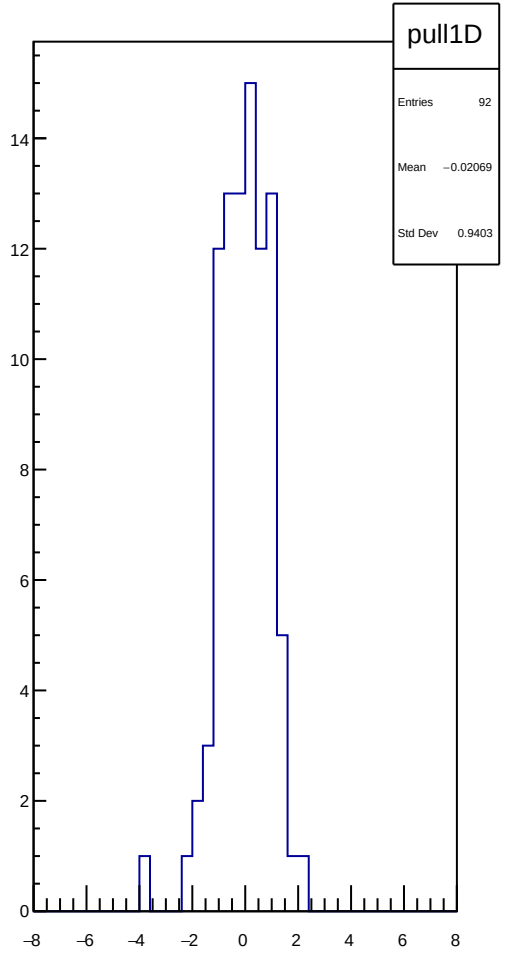

asym_atl1r2_dd_eigen_dit_correction_rms vs run
χ² / ndf 3739 / 91
p0 6776 ± 5.08
8000
7500
7000
6500
6000

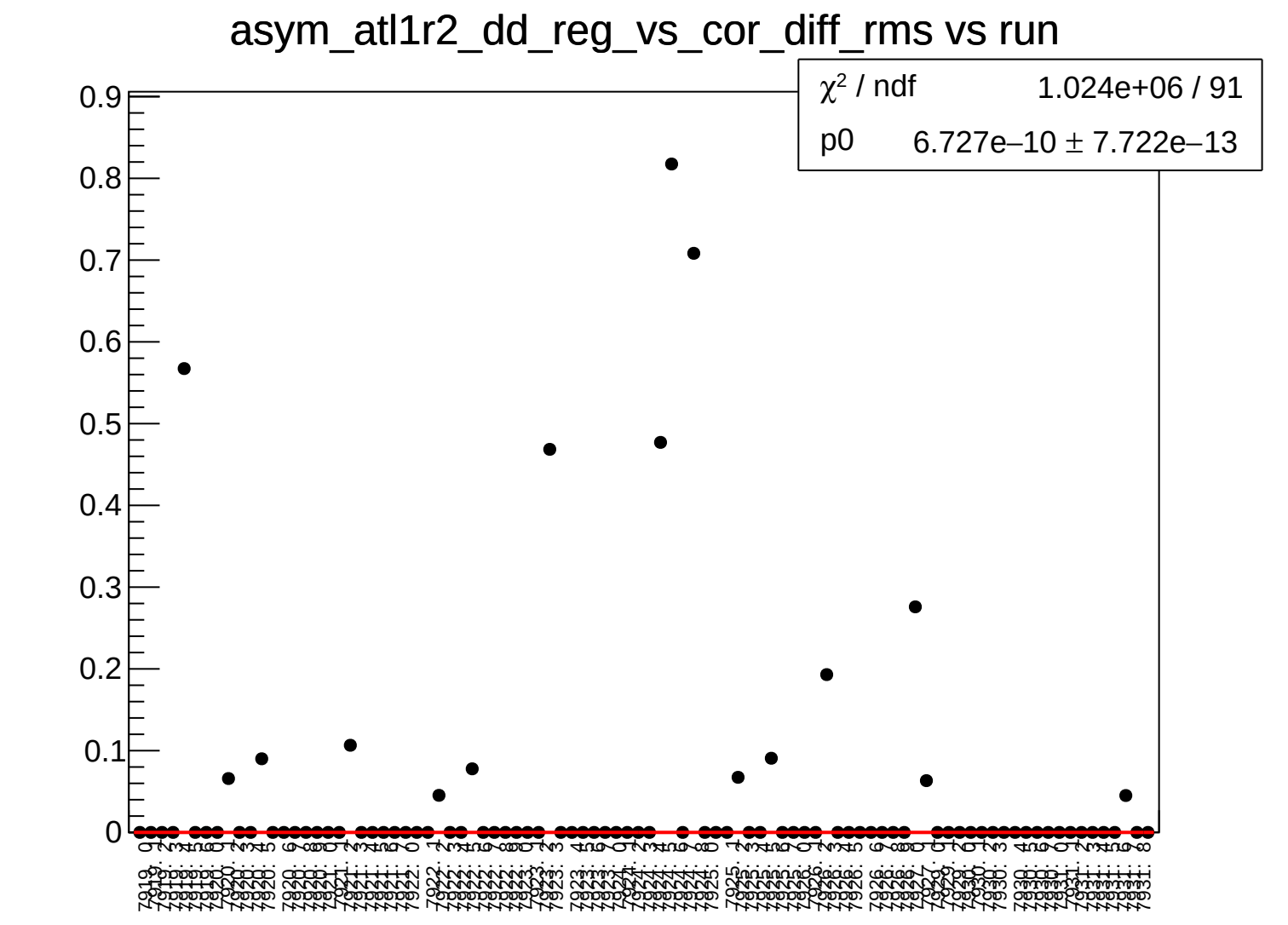

asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 95.28 / 91
p0 9643 ± 7327
pull
Entries 92
Mean −231.5
Std Dev 0

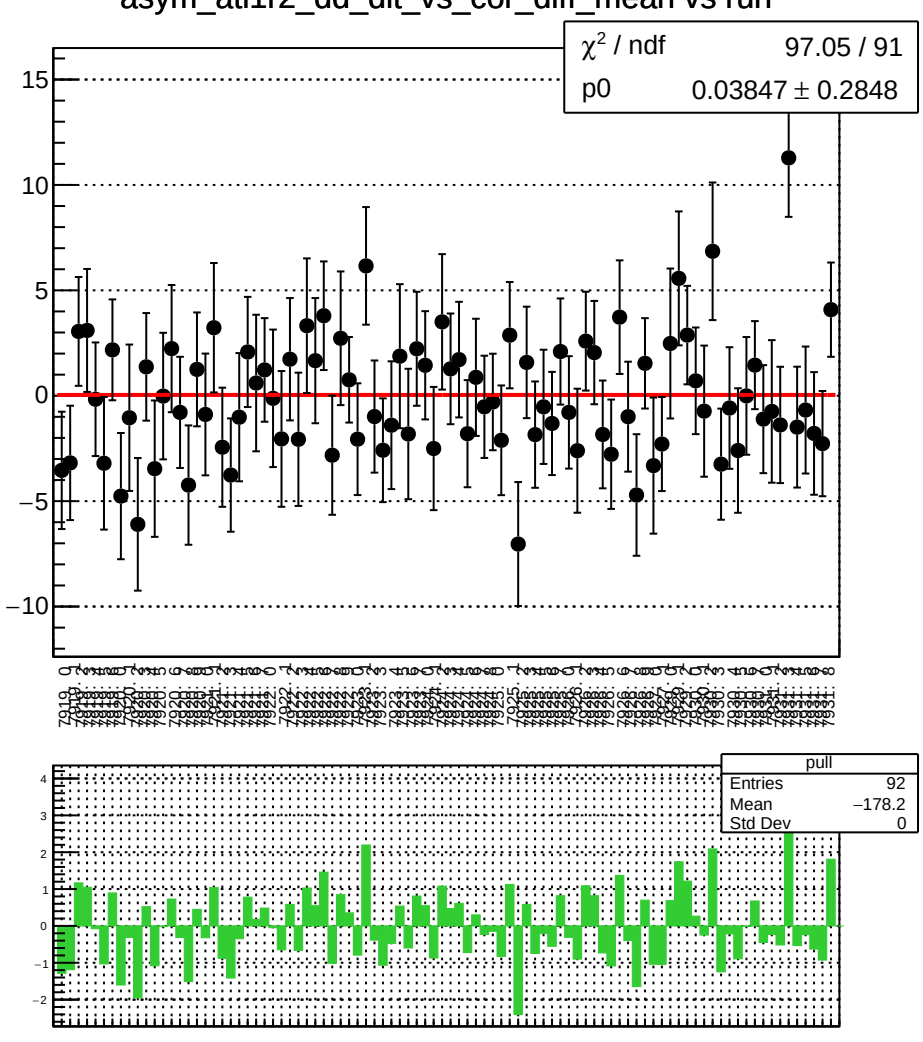

pull1D
Entries 92
Mean −0.003619
Std Dev 1.018

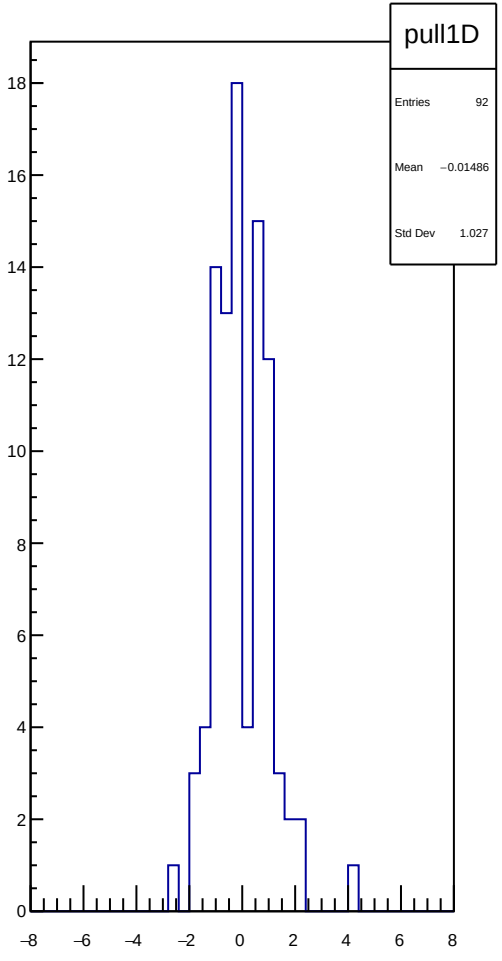

asym_atl1r2_dd_rms vs run
χ² / ndf 3300 / 91
p0 6912 ± 5.181
8500
8000
7500
7000
6500
6000

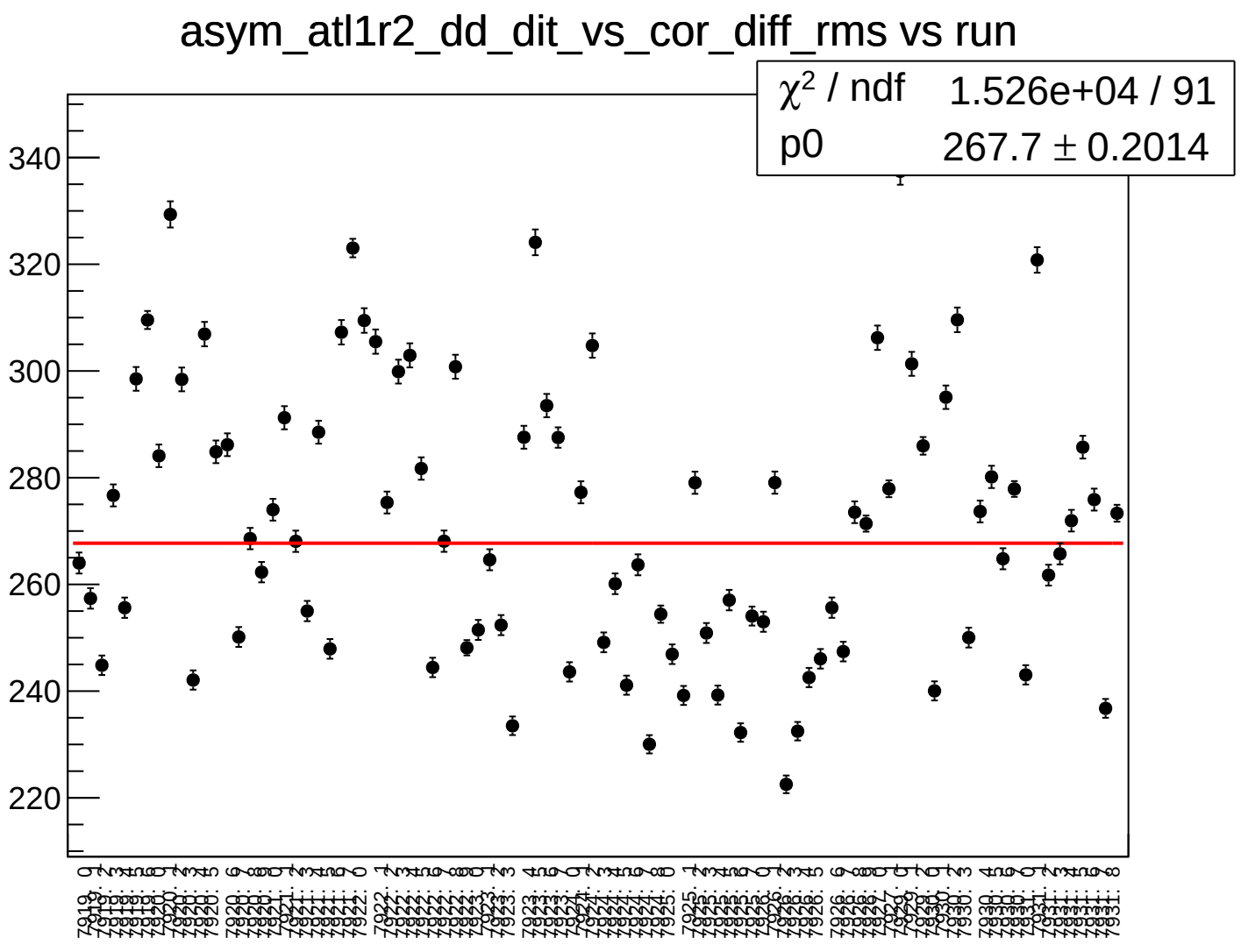

asym_atl1r2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 81.38 / 91
p0 −1.79e−13 ± 1.092e−12
0.005
0
−0.005
−0.01
−0.015
pull
Entries 92
Mean 253.2
Std Dev 0
2
1
0
−1
−2
−3

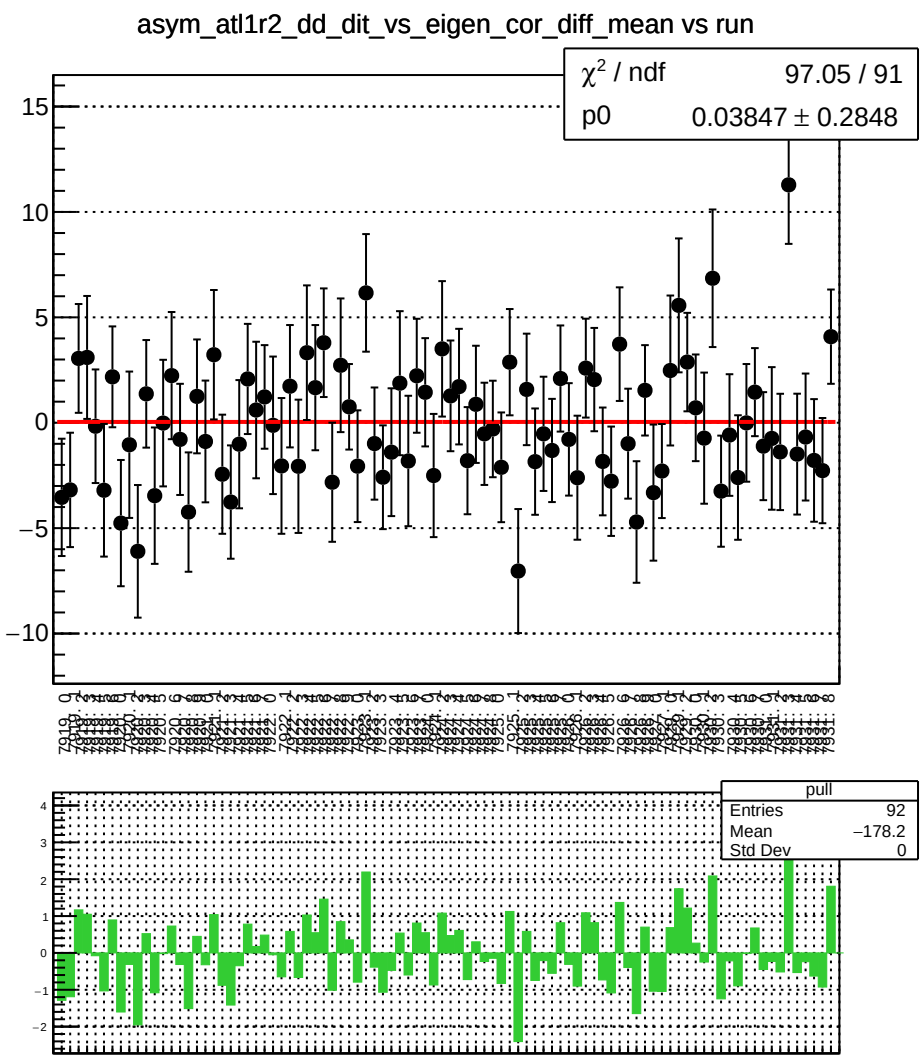

pull1D
Entries 92
Mean −0.02069
Std Dev 0.9403
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

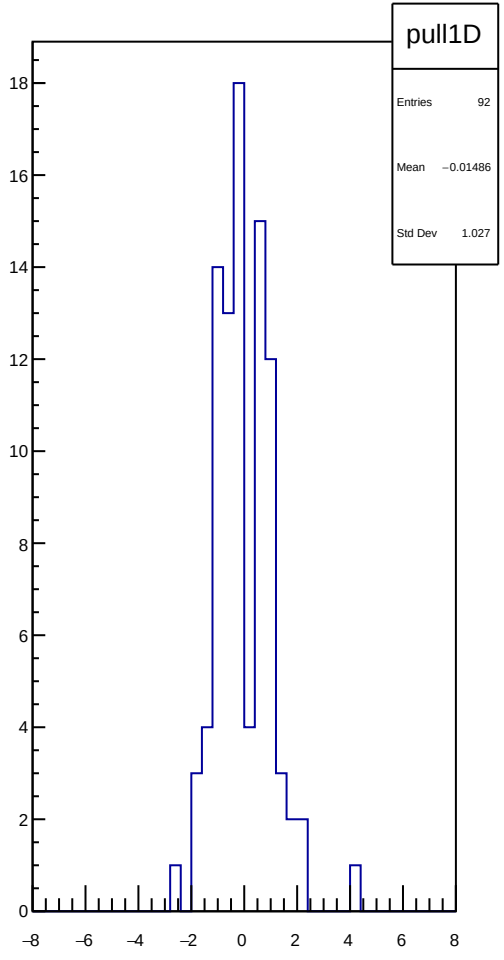

asym_atl1r2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.024e+06 / 91
p0 6.727e−10 ± 7.722e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

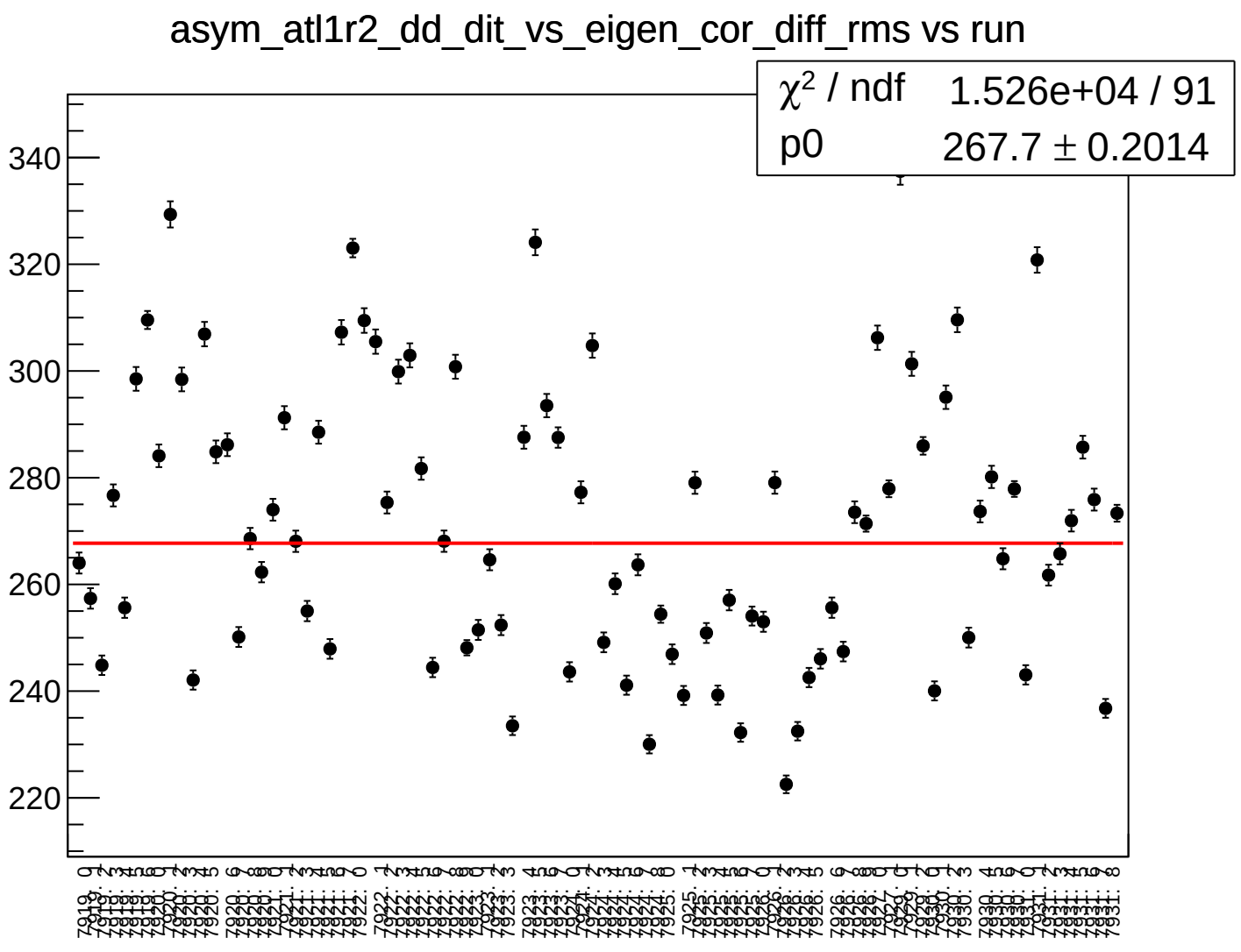

asym_atl1r2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 97.05 / 91
p0 0.03847 ± 0.2848
pull
Entries 92
Mean −178.2
Std Dev 0

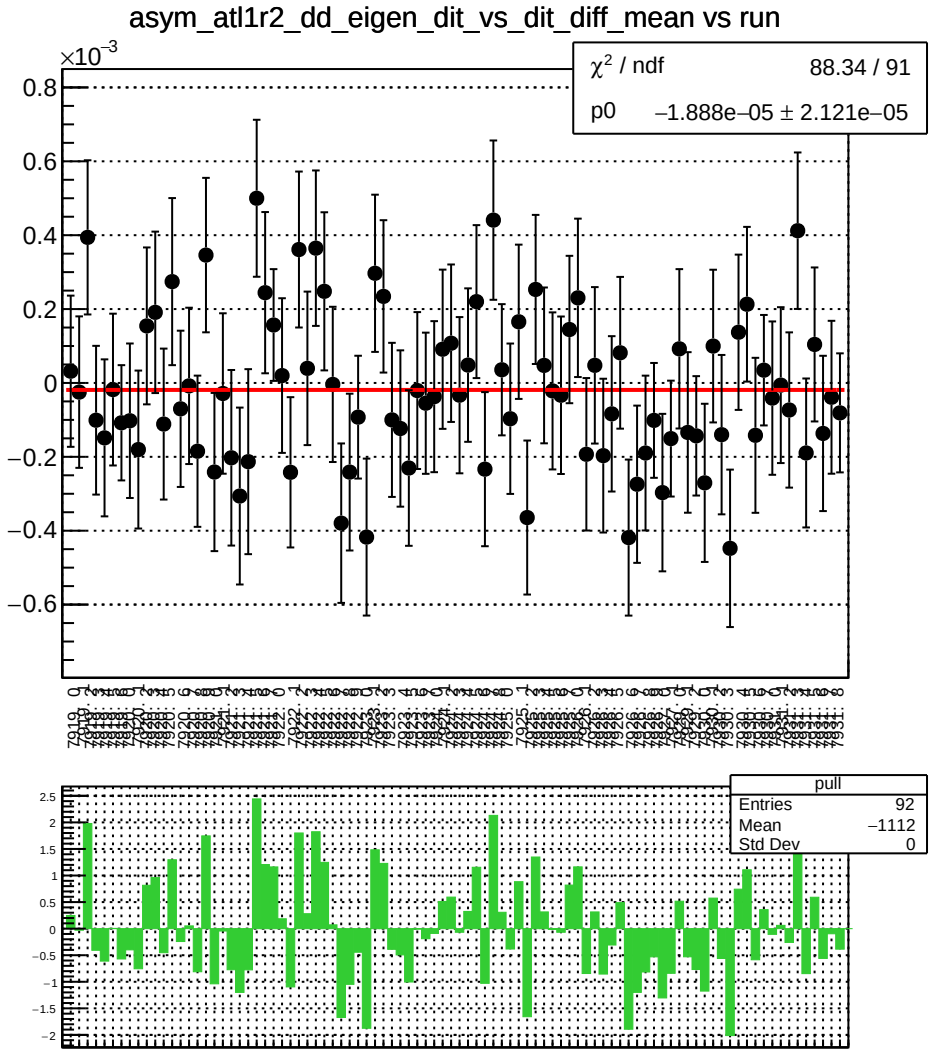

pull1D
Entries 92
Mean −0.01486
Std Dev 1.027

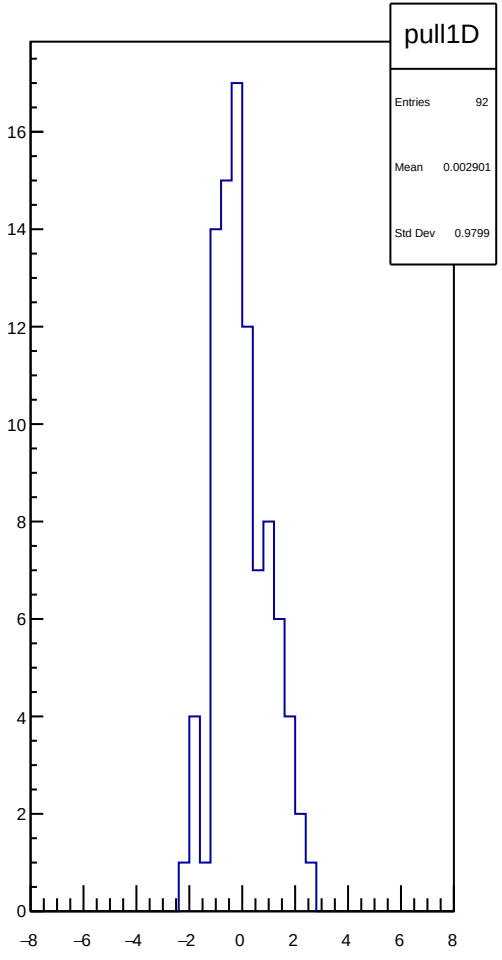

asym_atl1r2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.526e+04 / 91
p0 267.7 ± 0.2014
340
320
300
280
260
240
220

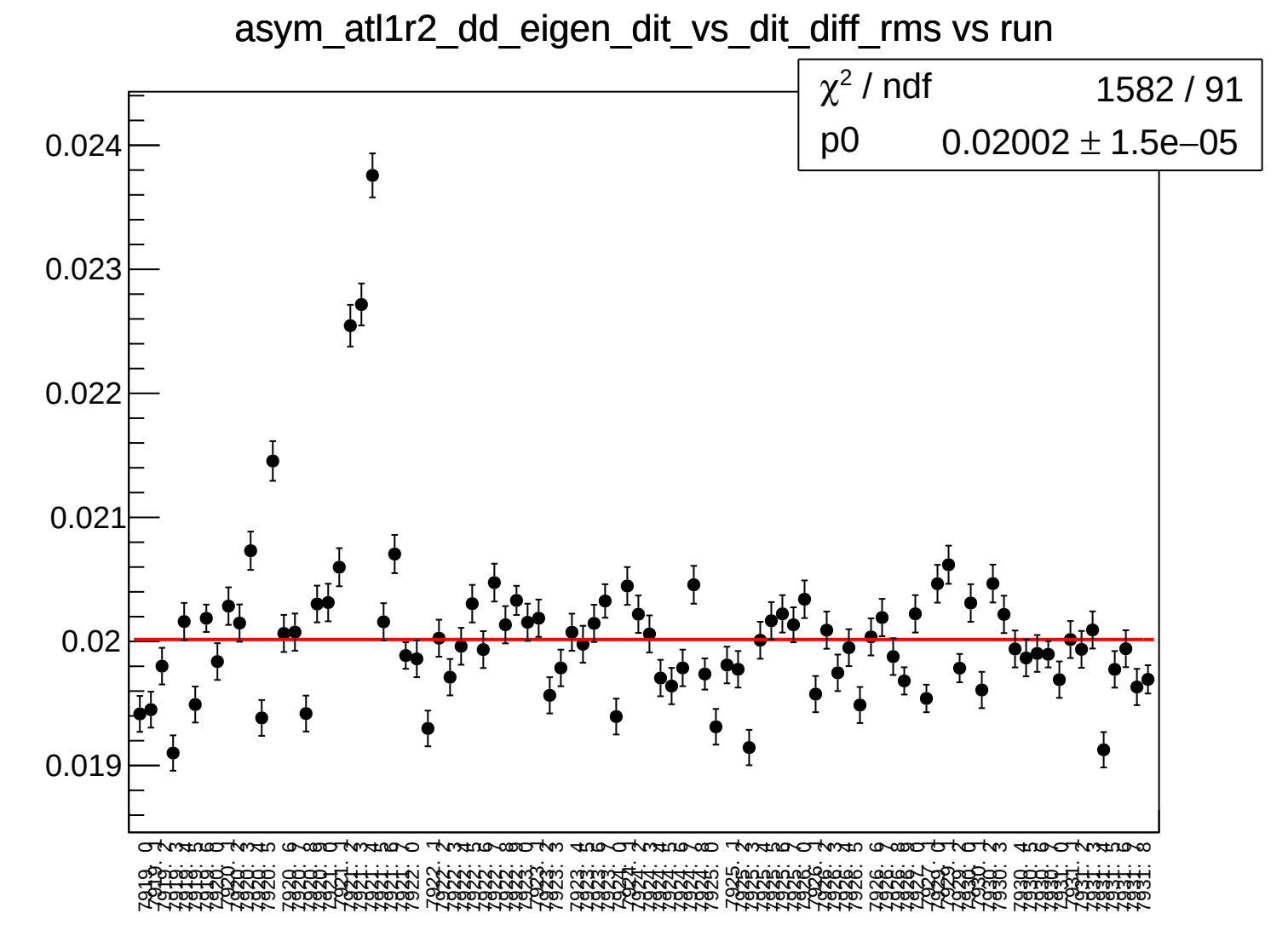

asym_atl1r2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.05 / 91
p0 0.03847 ± 0.2848
15
10
5
0
−5
−10
pull
Entries 92
Mean −178.2
Std Dev 0
4
3
2
1
0
−1
−2

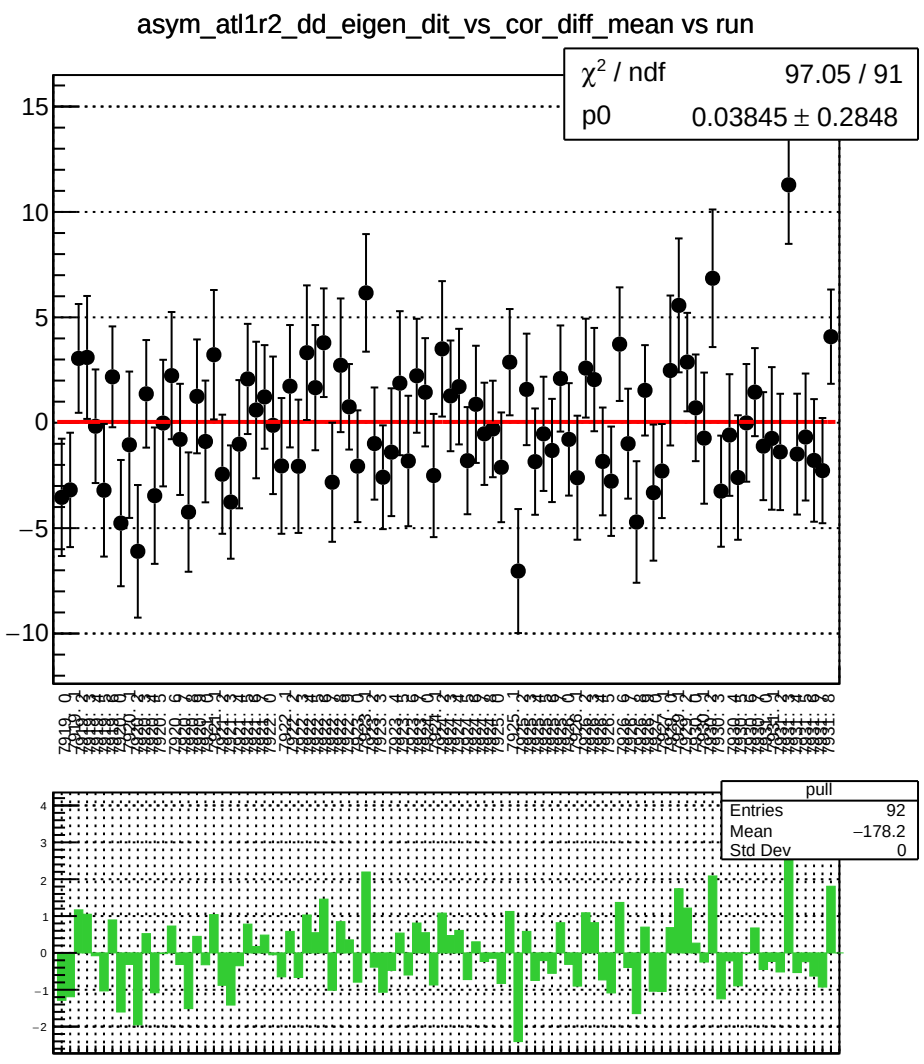

pull1D
Entries 92
Mean −0.01486
Std Dev 1.027
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

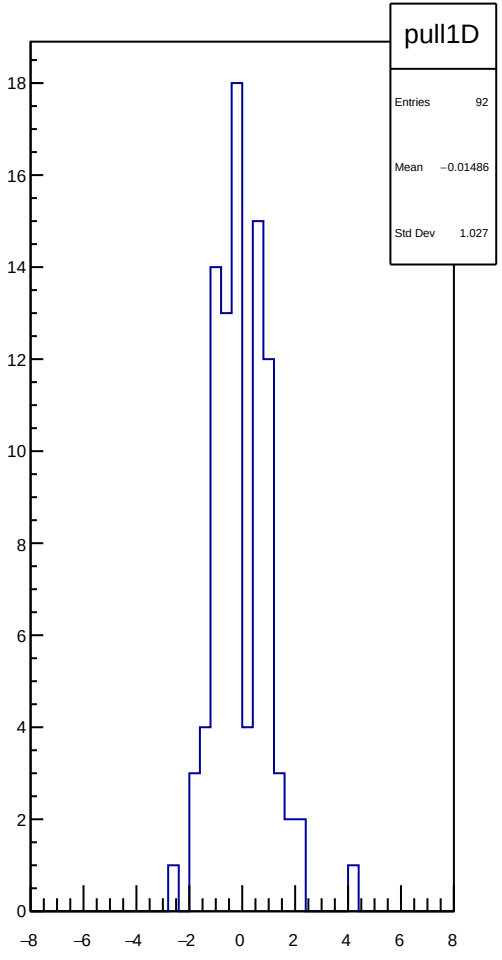

asym_atl1r2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.526e+04 / 91
p0 267.7 ± 0.2014
340
320
300
280
260
240
220

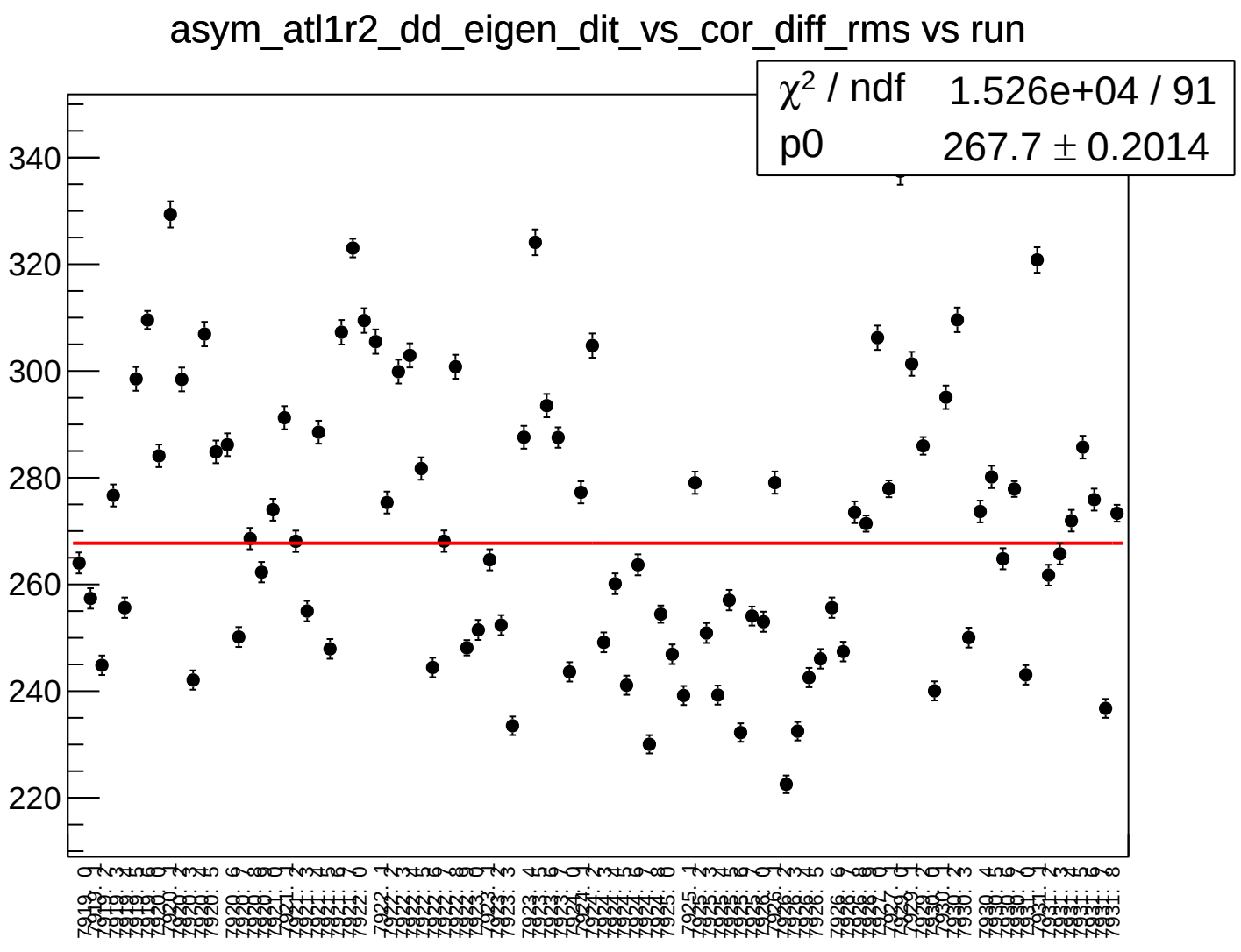

asym_atl1r2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.34 / 91
p0 −1.888e−05 ± 2.121e−05
pull
Entries 92
Mean −1112
Std Dev 0

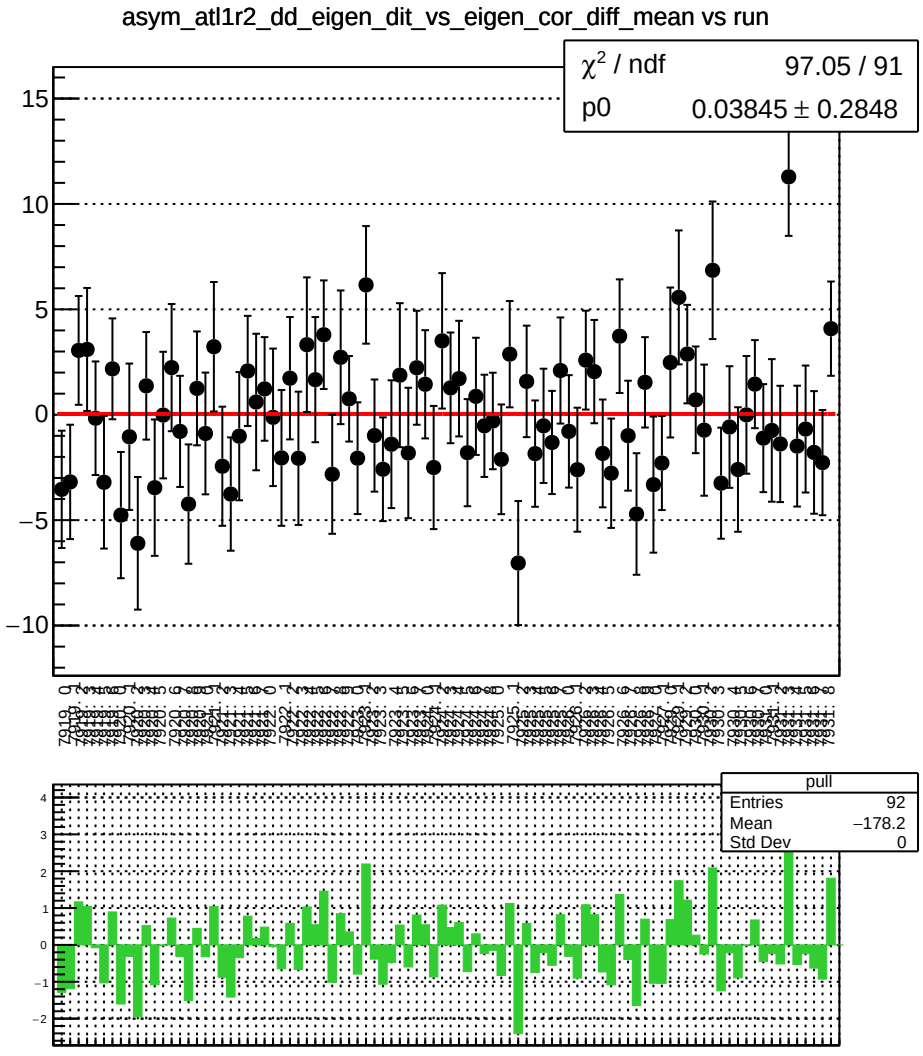

pull1D
Entries 92
Mean 0.002901
Std Dev 0.9799

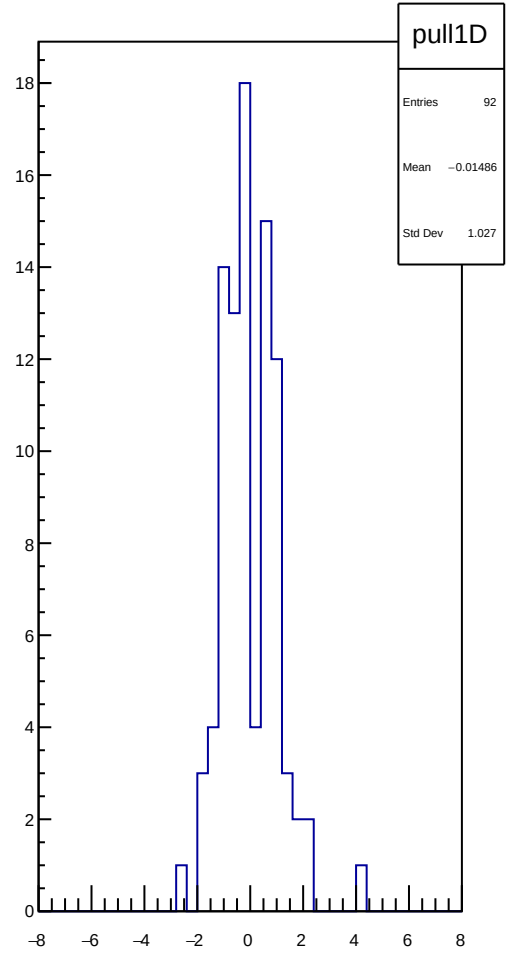

asym_atl1r2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1582 / 91
p0 0.02002 ± 1.5e−05
0.024
0.023
0.022
0.021
0.02
0.019

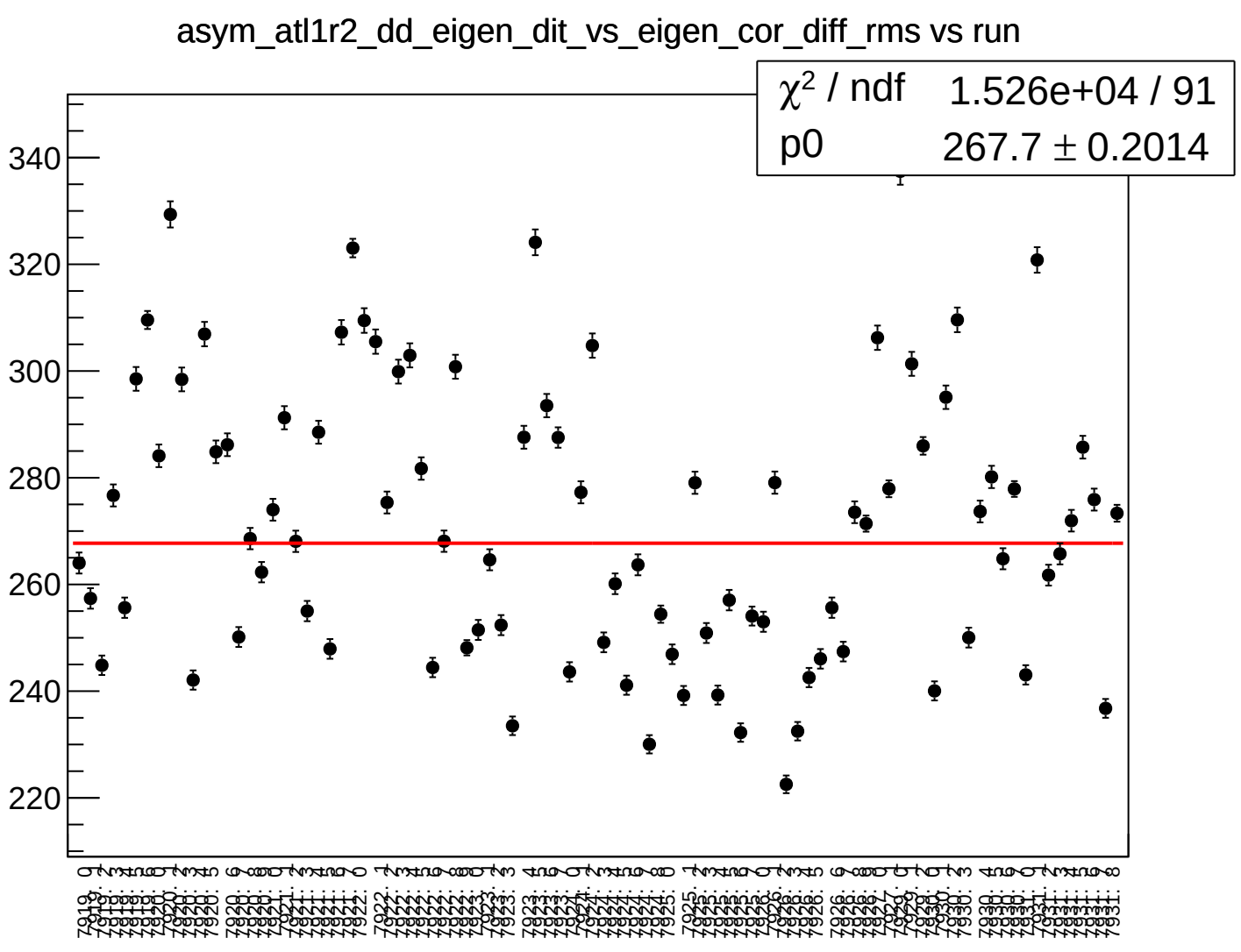

asym_atl1r2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 97.05 / 91
p0 0.03845 ± 0.2848
15
10
5
0
−5
−10
pull
Entries 92
Mean −178.2
Std Dev 0
4
3
2
1
0
−1
−2

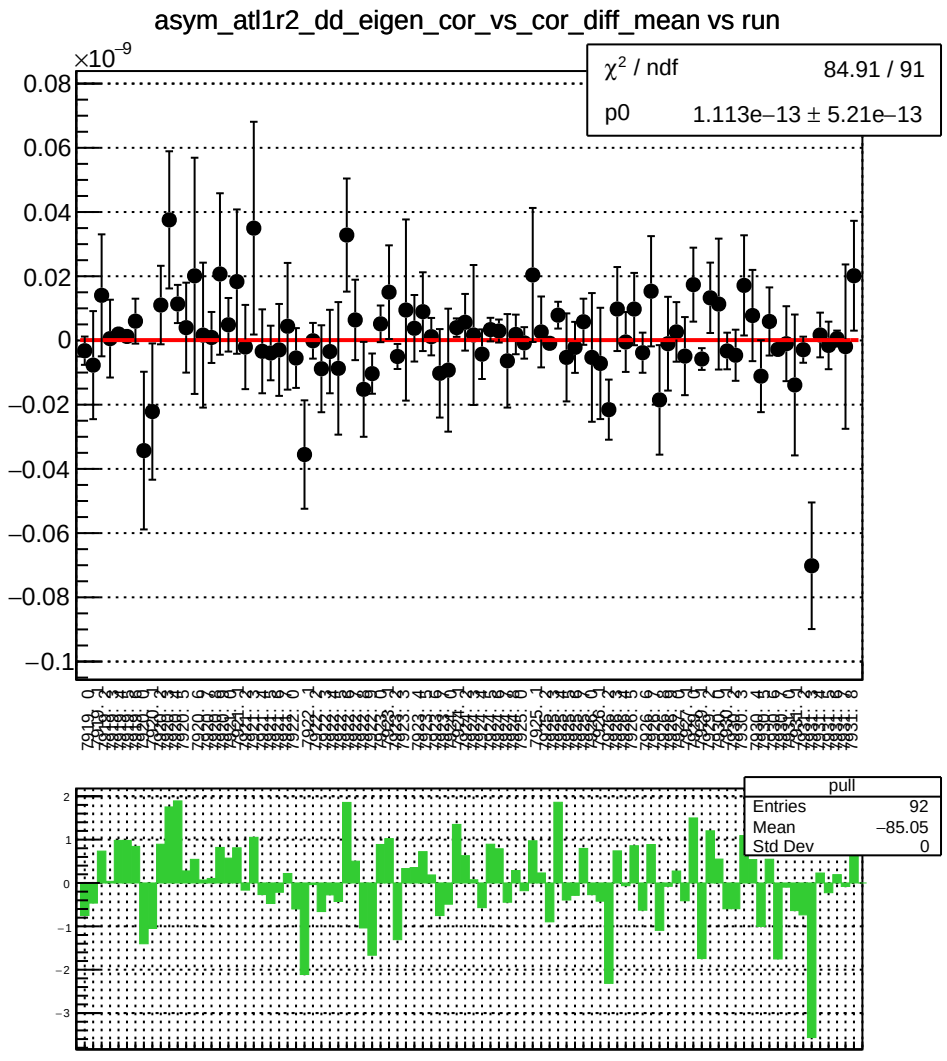

pull1D
Entries 92
Mean −0.01486
Std Dev 1.027
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

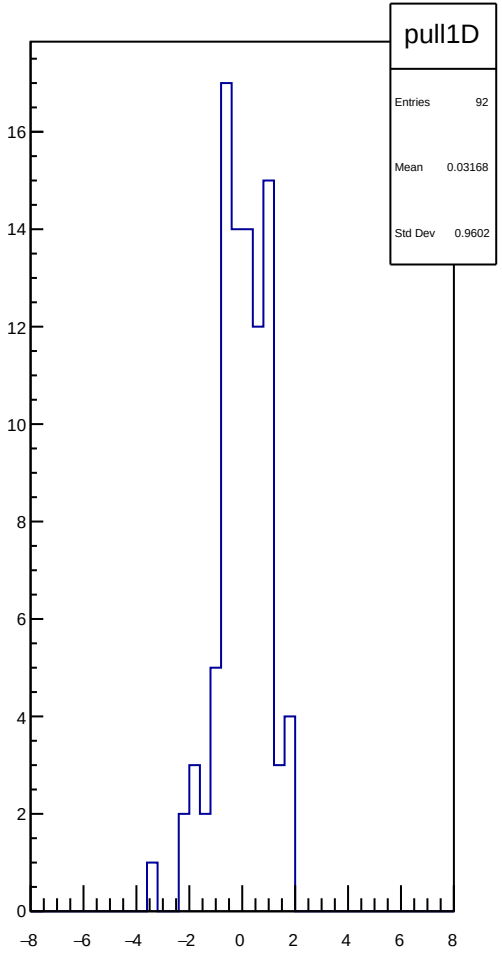

asym_atl1r2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.526e+04 / 91
p0 267.7 ± 0.2014
340
320
300
280
260
240
220

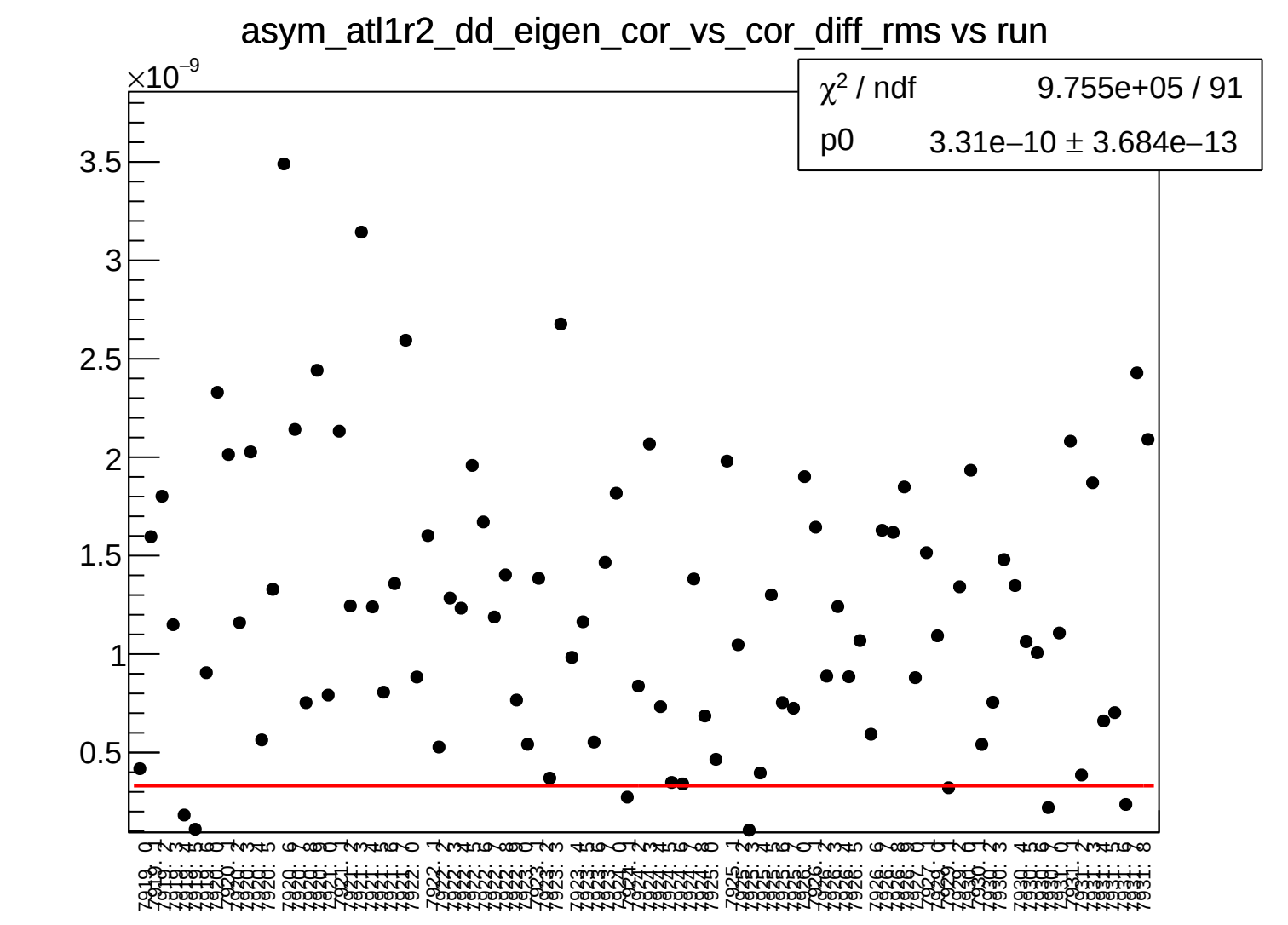

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.05 / 91
p0 0.03845 ± 0.2848
pull
Entries 92
Mean −178.2
Std Dev 0

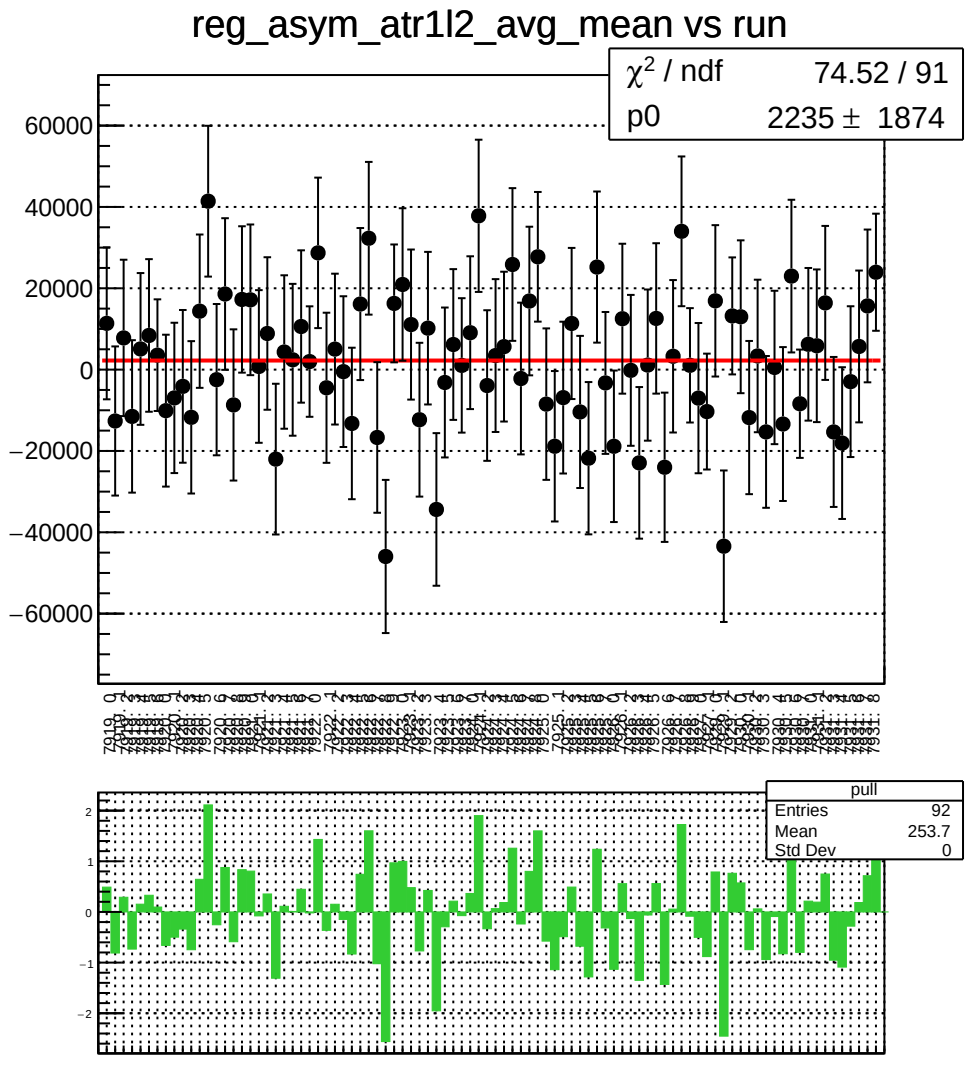

pull1D
Entries 92
Mean −0.01486
Std Dev 1.027

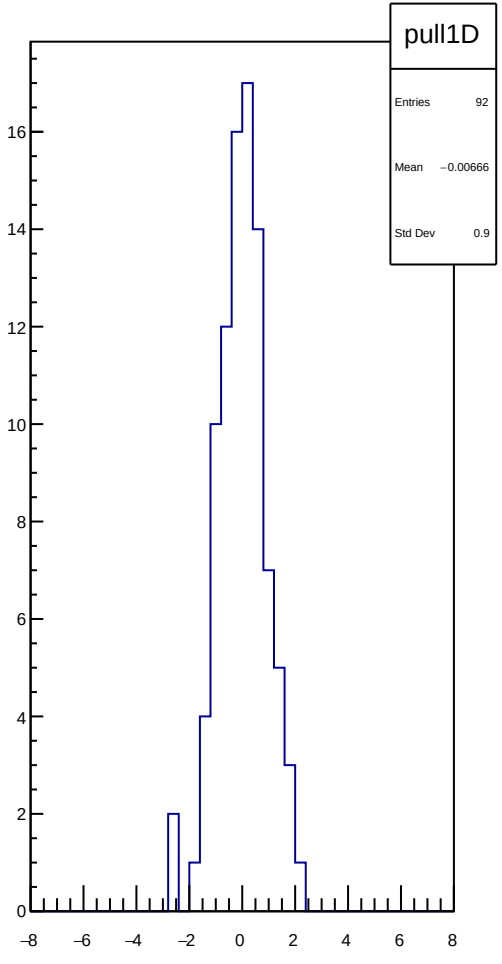

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.526e+04 / 91
p0 267.7 ± 0.2014
340
320
300
280
260
240
220

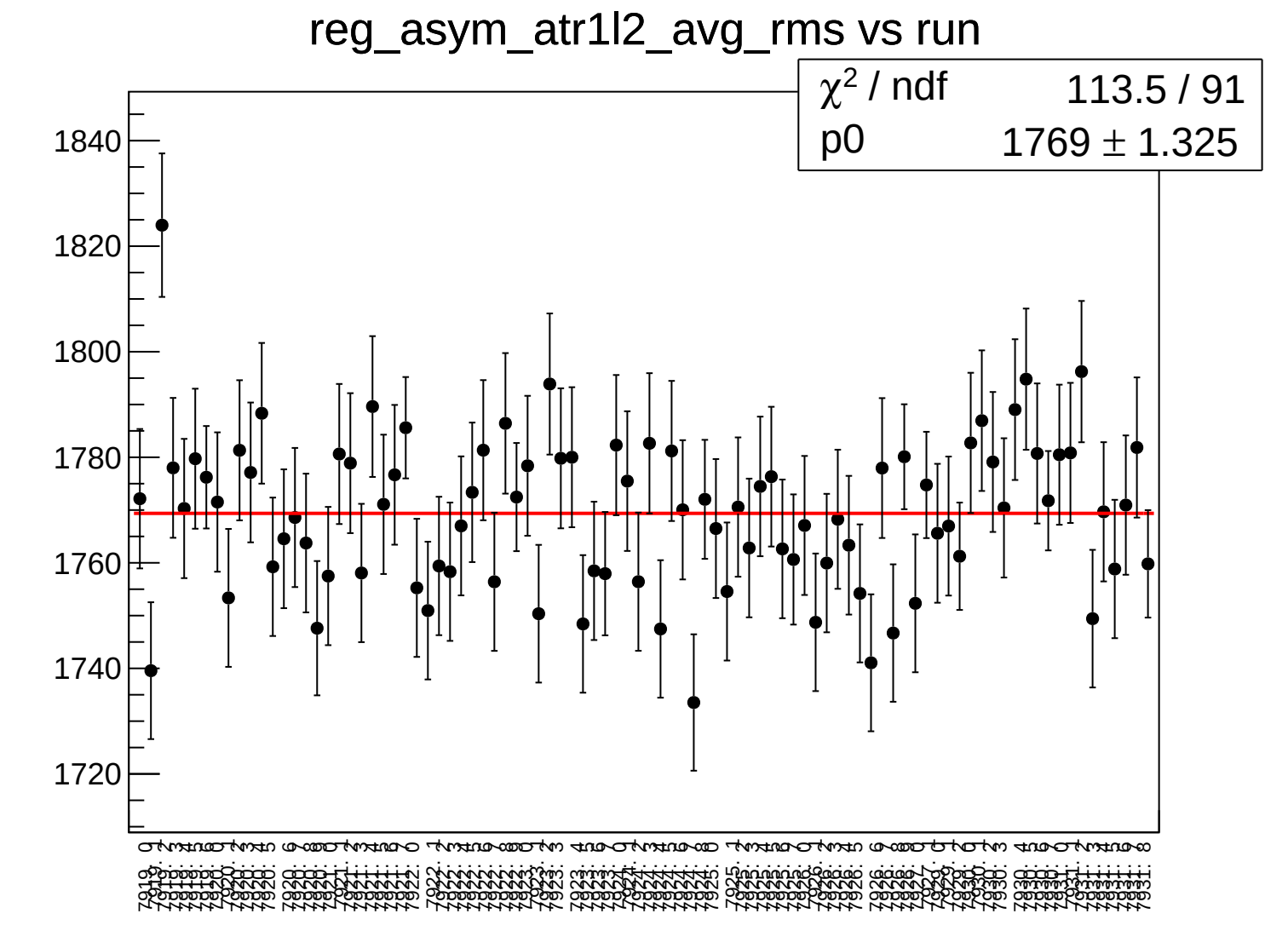

asym_atl1r2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 84.91 / 91
p0 1.113e−13 ± 5.21e−13
pull
Entries 92
Mean −85.05
Std Dev 0

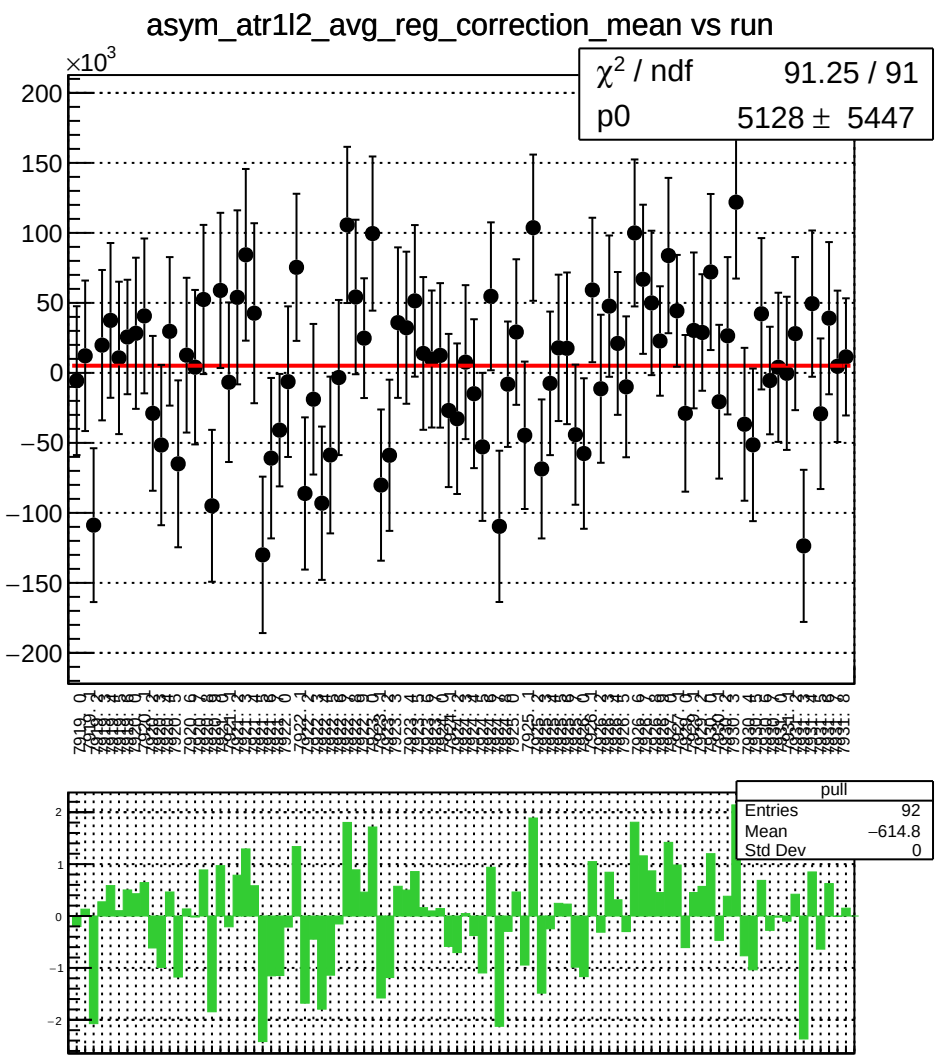

pull1D
Entries 92
Mean 0.03168
Std Dev 0.9602

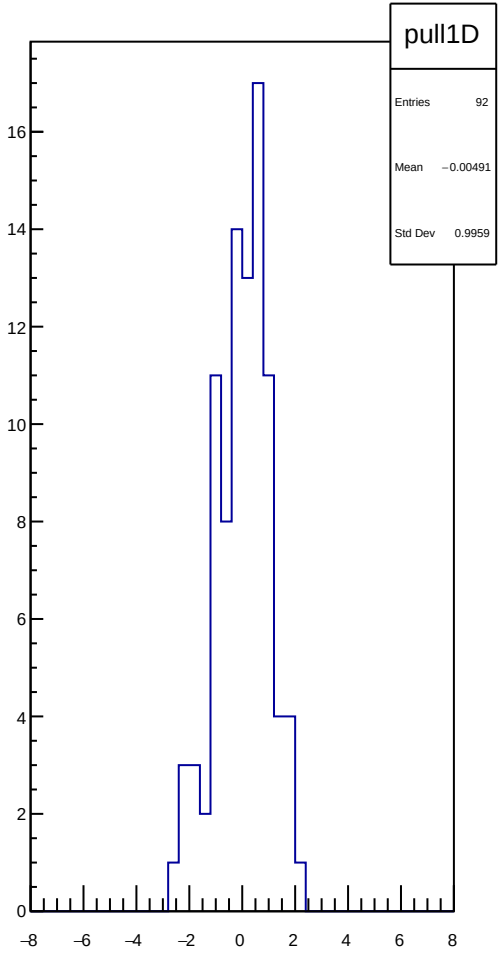

asym_atl1r2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.755e+05 / 91
p0 3.31e−10 ± 3.684e−13
3.5
3
2.5
2
1.5
1
0.5

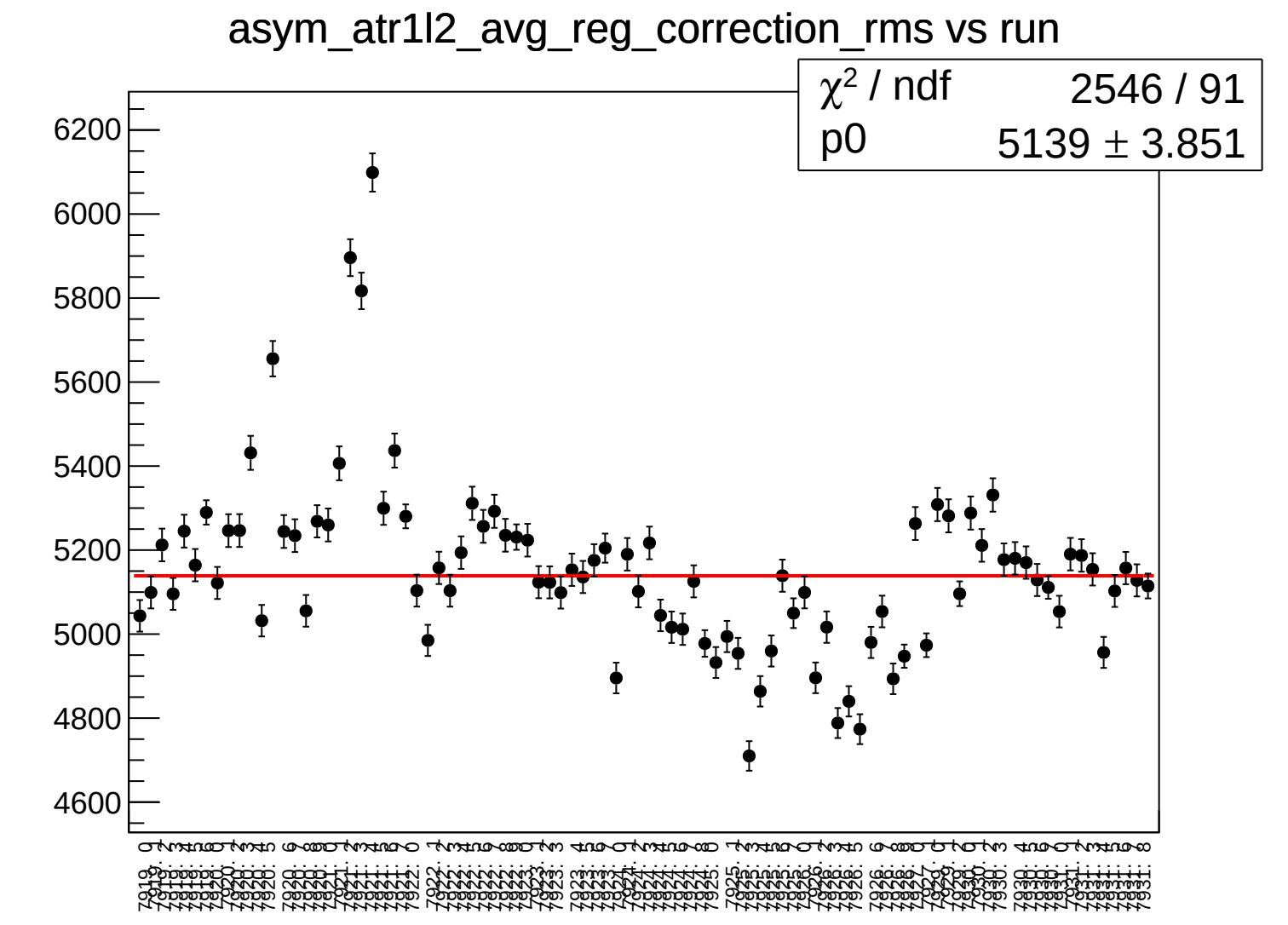

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 74.52 / 91
p0 2235 ± 1874
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 253.7
Std Dev 0
2
1
0
−1
−2

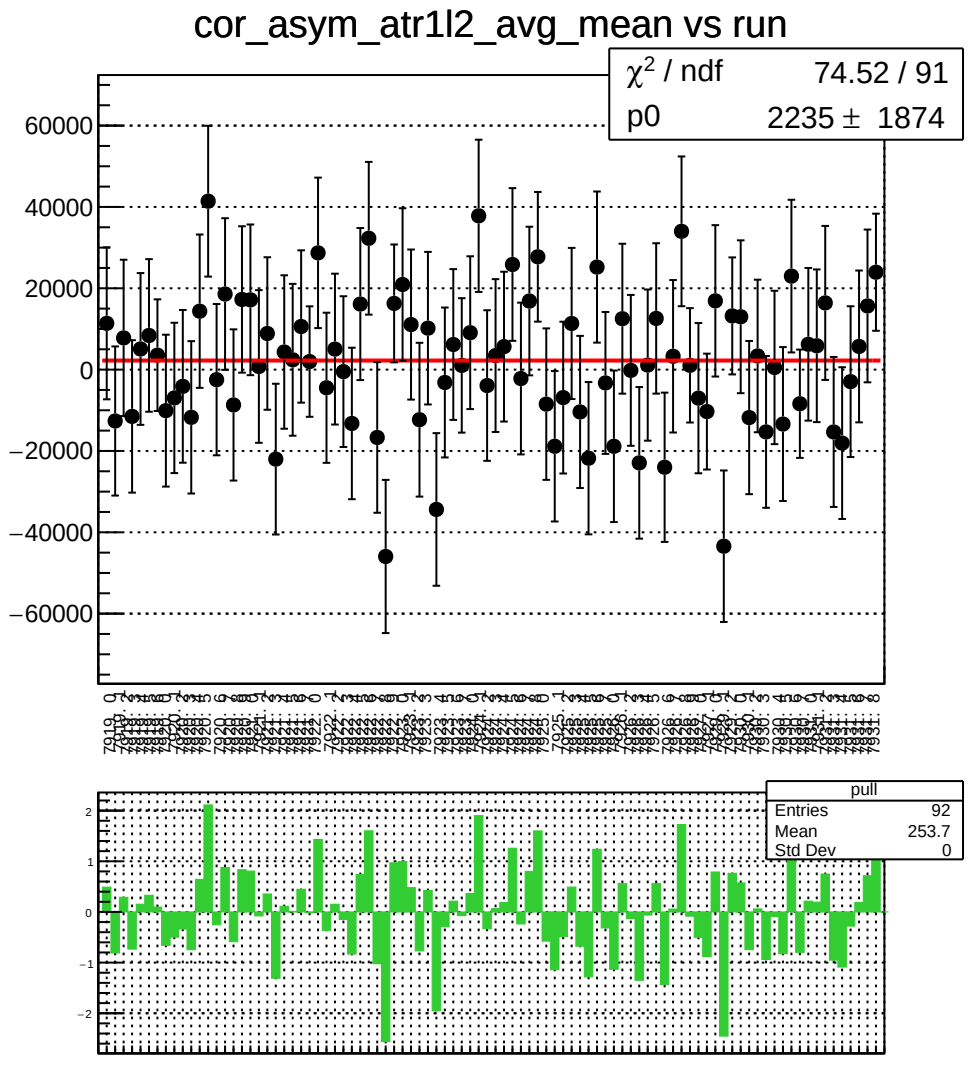

pull1D
Entries 92
Mean −0.00666
Std Dev 0.9
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

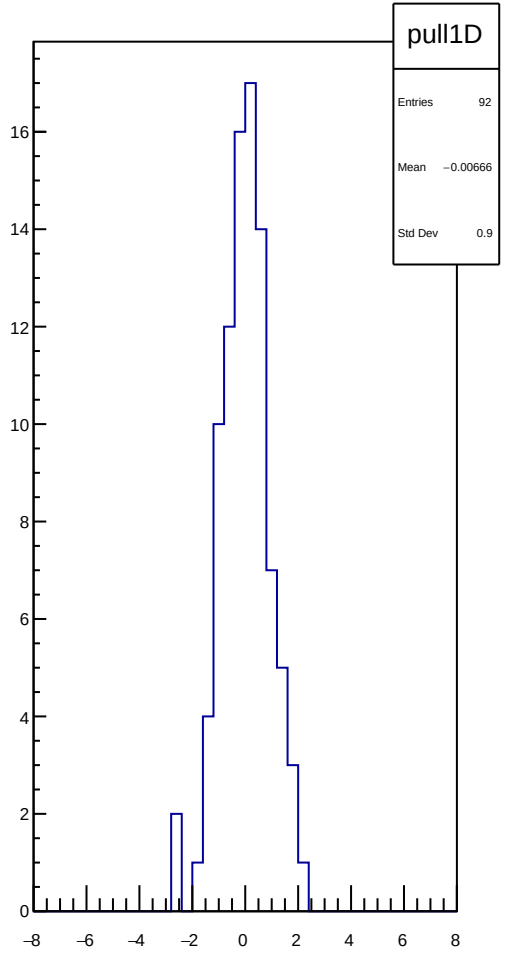

reg_asym_atr1l2_avg_rms vs run
χ^2 / ndf 113.5 / 91
p0 1769 ± 1.325
1840
1820
1800
1780
1760
1740
1720

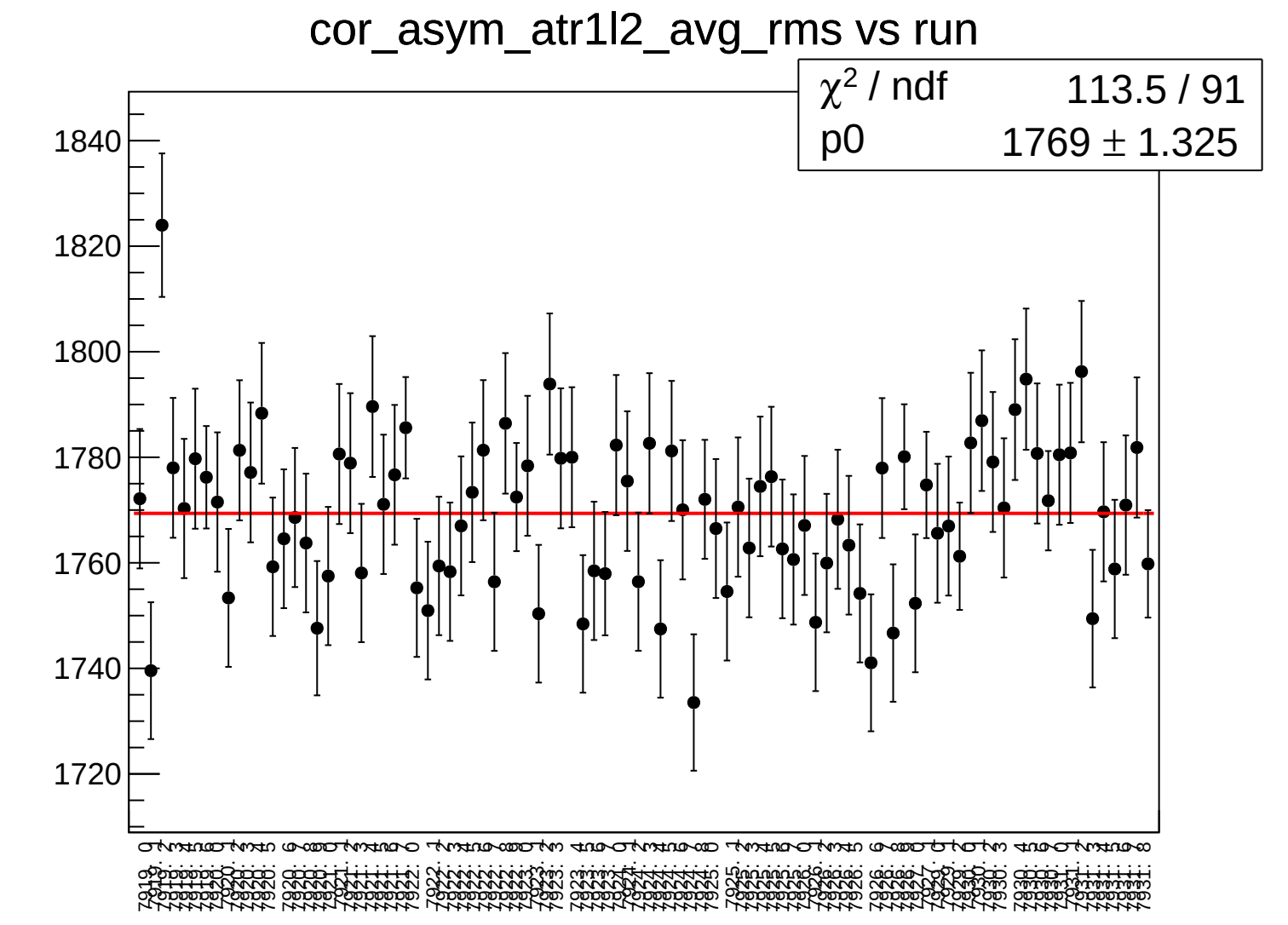

asym_atr1l2_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 91.25 / 91
p0 5128 ± 5447
pull
Entries 92
Mean −614.8
Std Dev 0

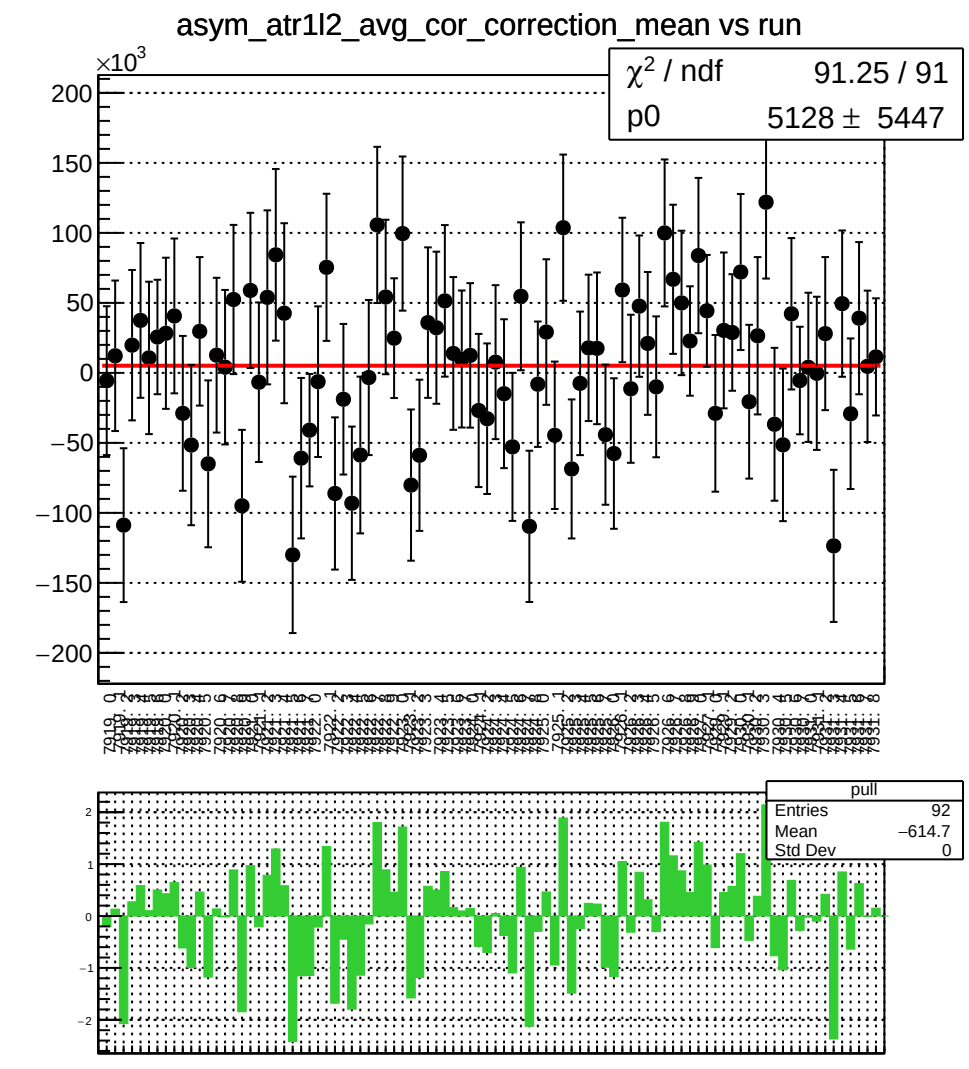

pull1D
Entries 92
Mean −0.00491
Std Dev 0.9959

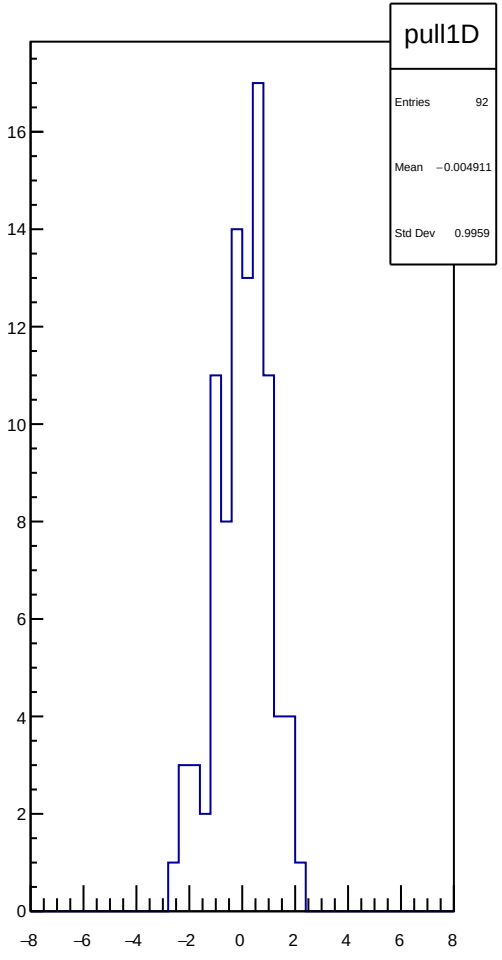

asym_atr1l2_avg_reg_correction_rms vs run
χ² / ndf 2546 / 91
p0 5139 ± 3.851
6200
6000
5800
5600
5400
5200
5000
4800
4600

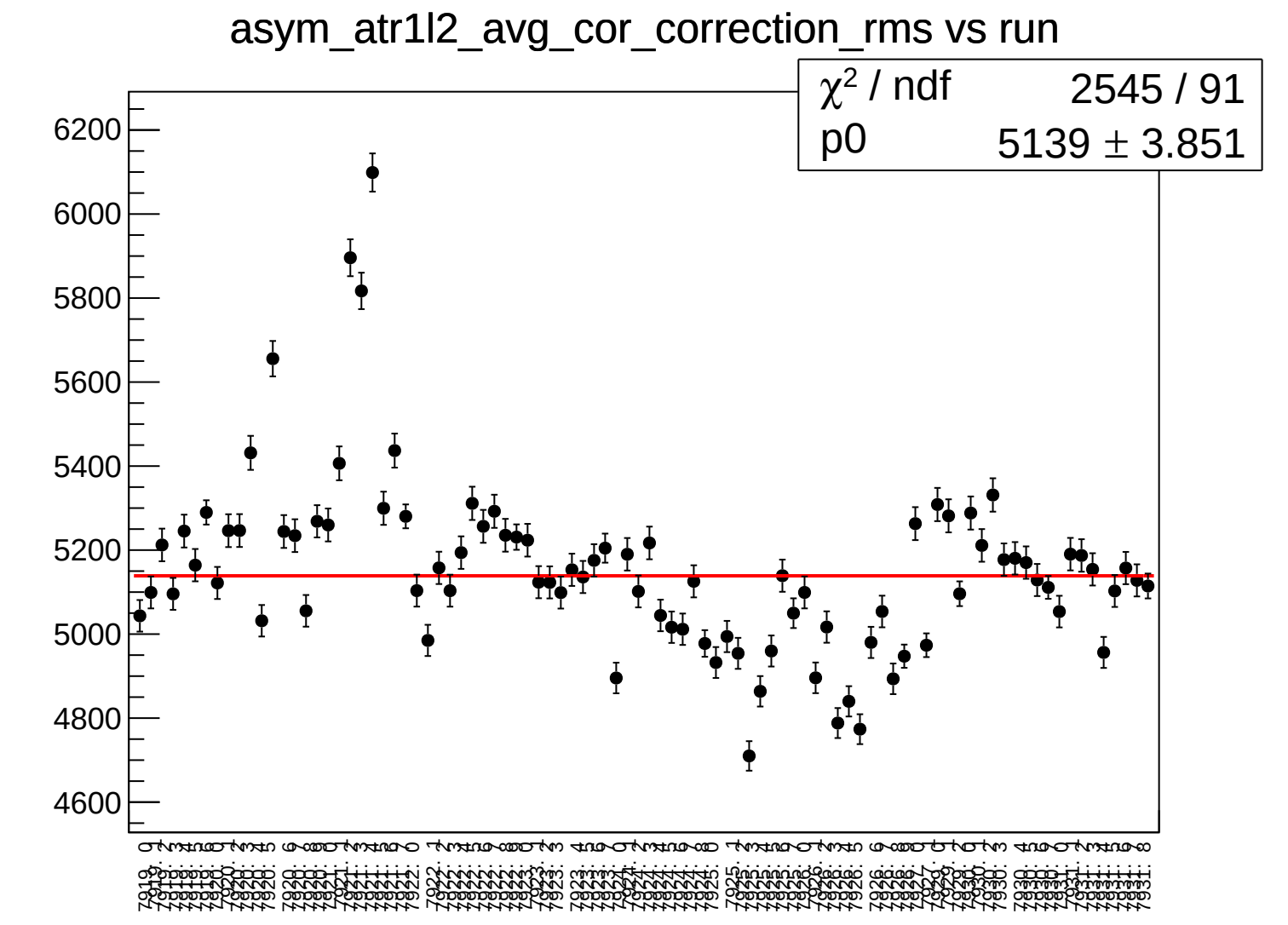

cor_asym_atr1l2_avg_mean vs run
χ² / ndf 74.52 / 91
p0 2235 ± 1874
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 253.7
Std Dev 0
2
1
0
−1
−2

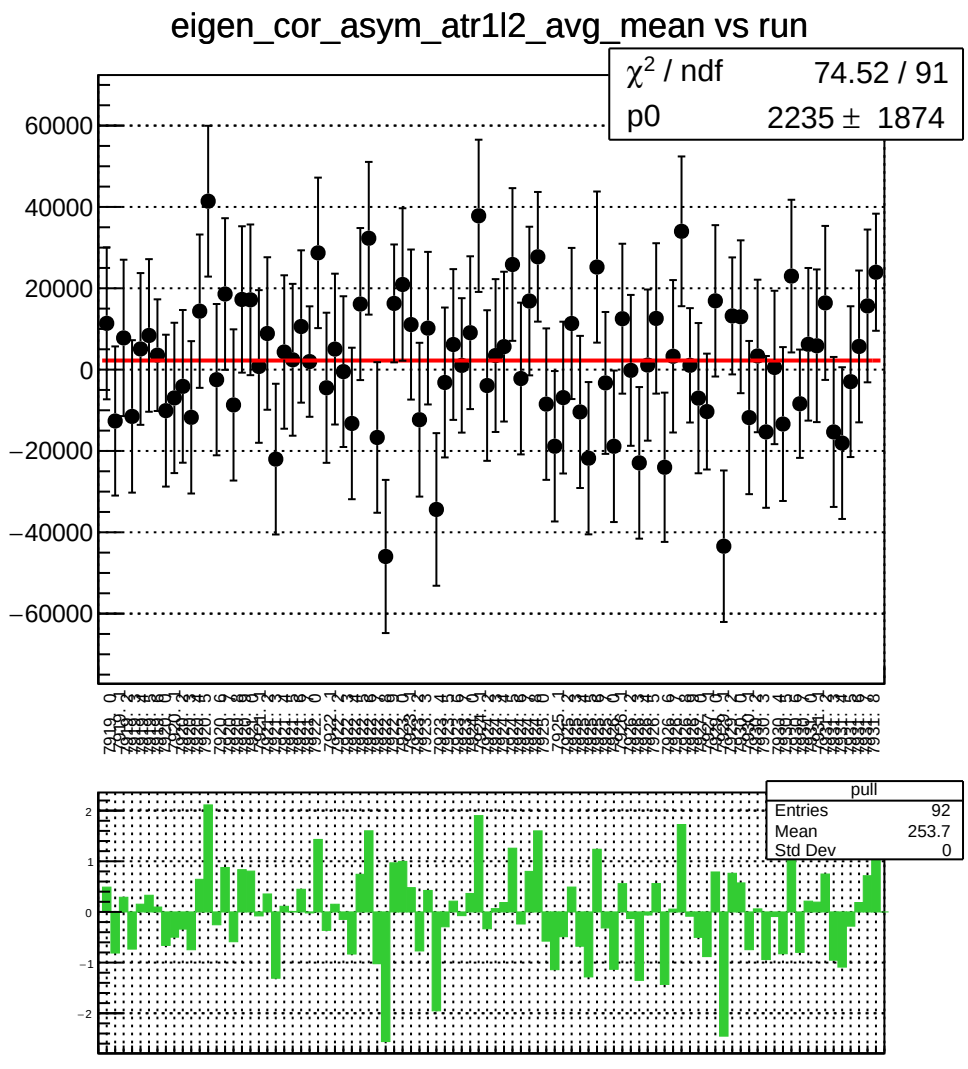

pull1D
Entries 92
Mean −0.00666
Std Dev 0.9
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

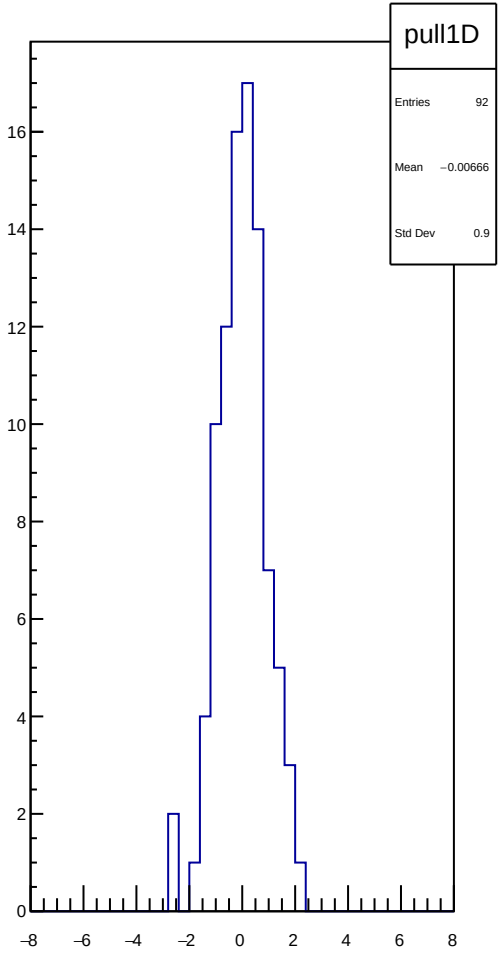

cor_asym_atr1l2_avg_rms vs run
χ² / ndf 113.5 / 91
p0 1769 ± 1.325
1840
1820
1800
1780
1760
1740
1720

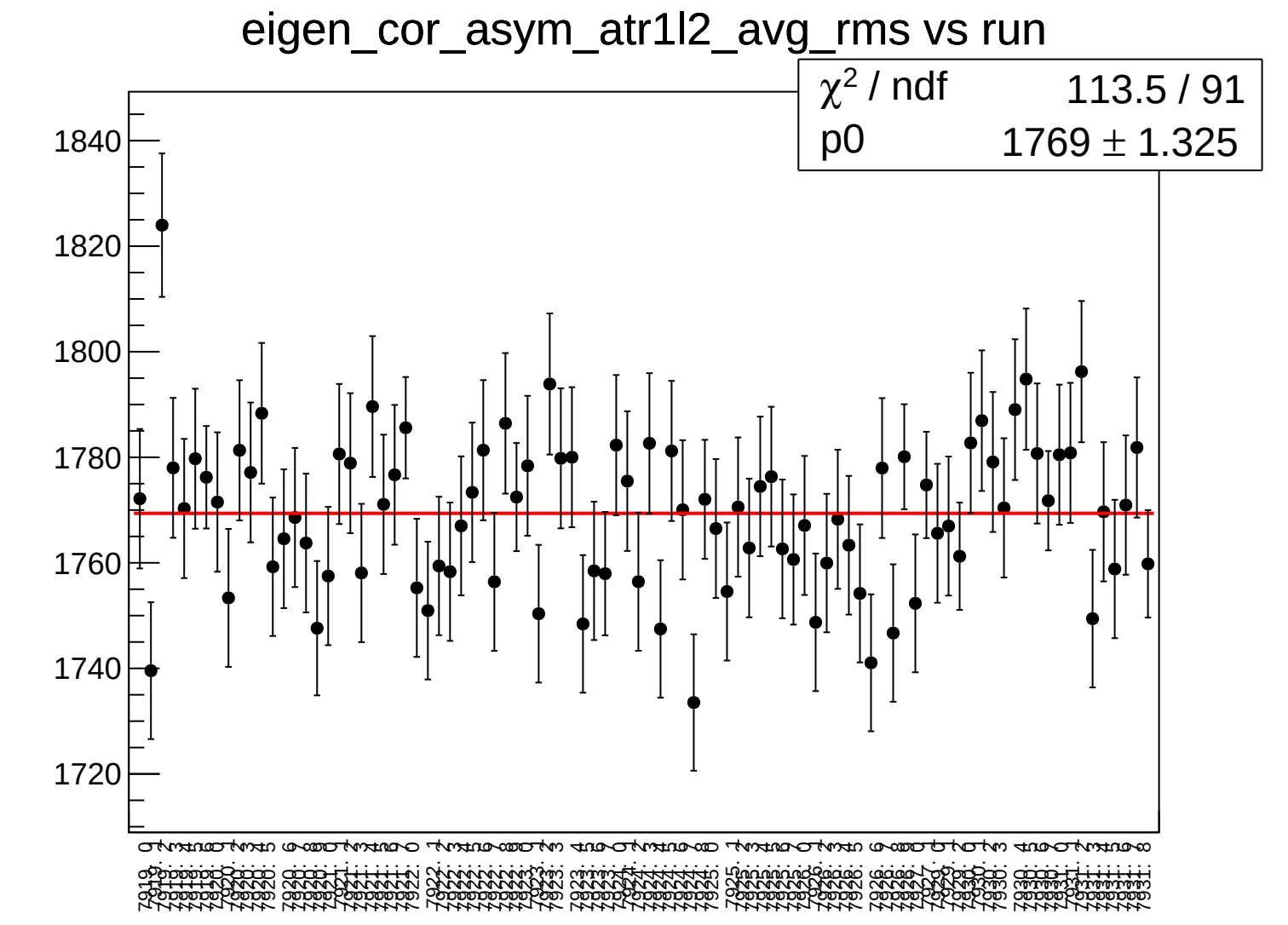

asym_atr1l2_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 91.25 / 91
p0 5128 ± 5447
pull
Entries 92
Mean −614.7
Std Dev 0

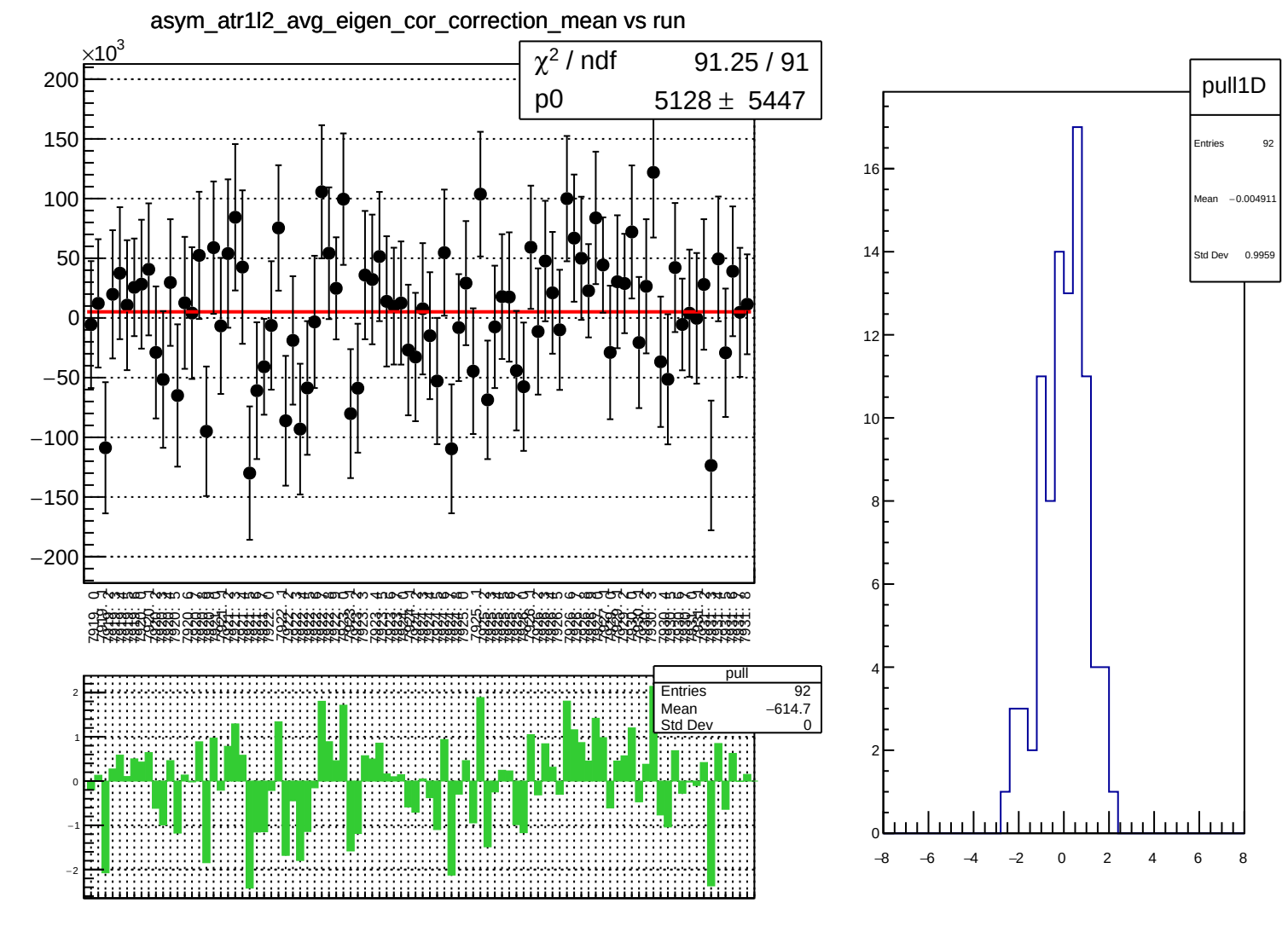

pull1D
Entries 92
Mean −0.004911
Std Dev 0.9959

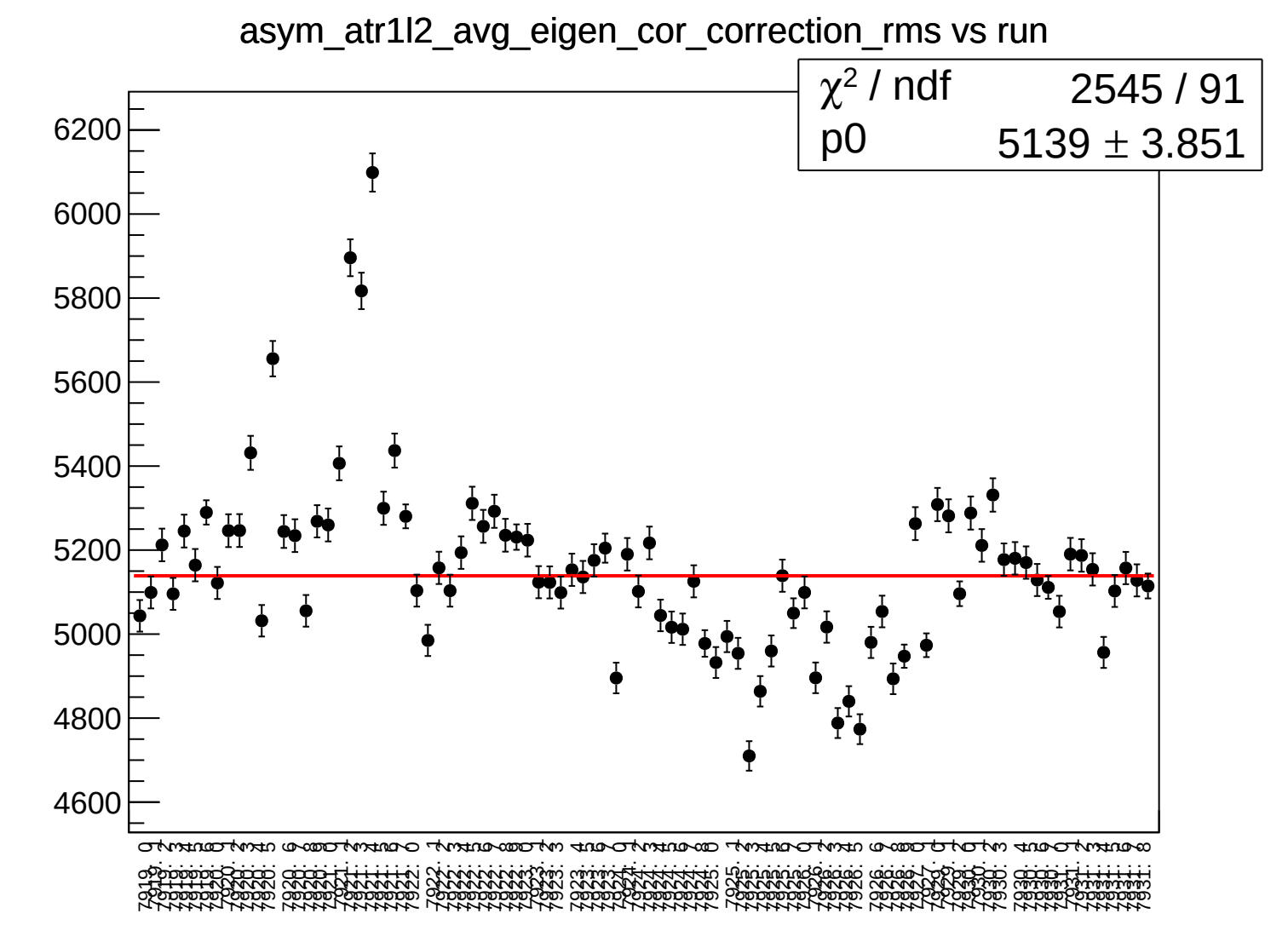

asym_atr1l2_avg_cor_correction_rms vs run
χ² / ndf 2545 / 91
p0 5139 ± 3.851
6200
6000
5800
5600
5400
5200
5000
4800
4600

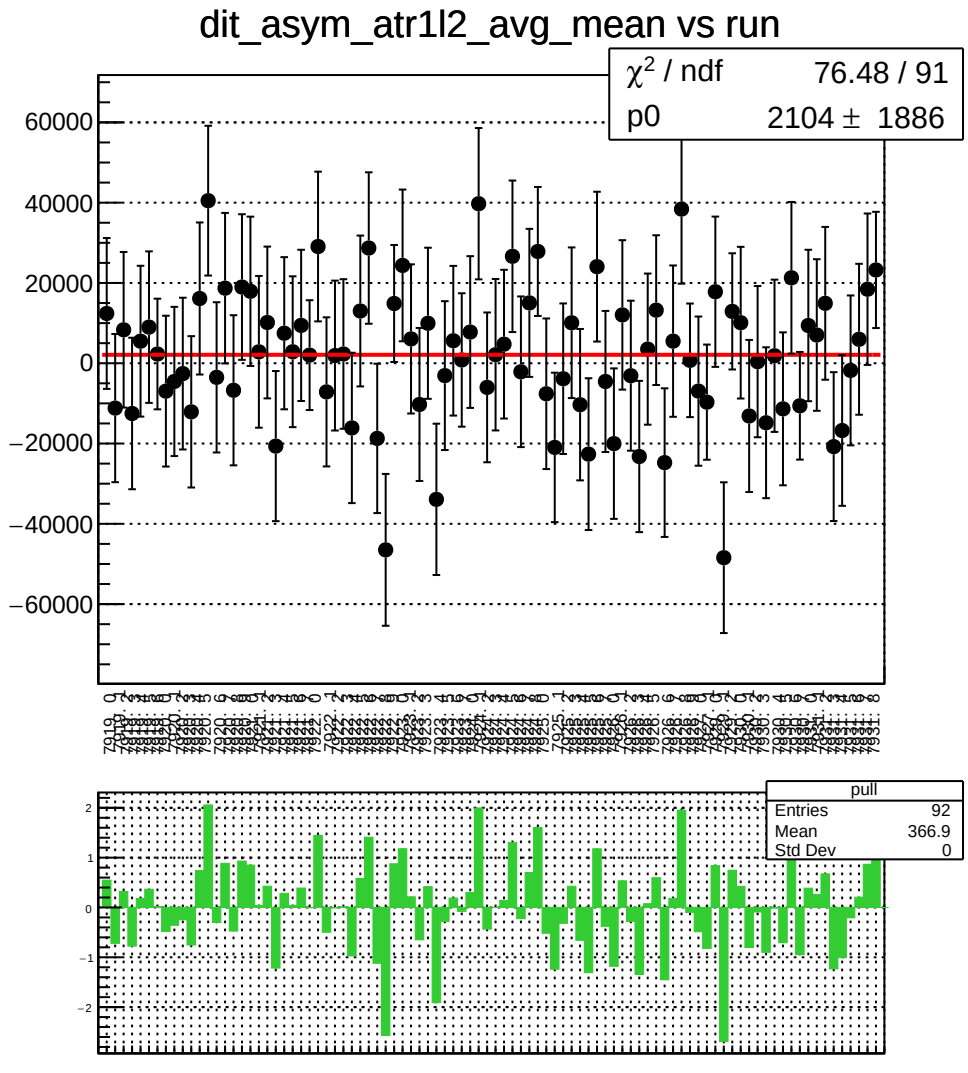

eigen_cor_asym_atr1l2_avg_mean vs run
χ² / ndf 74.52 / 91
p0 2235 ± 1874
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 253.7
Std Dev 0
2
1
0
−1
−2

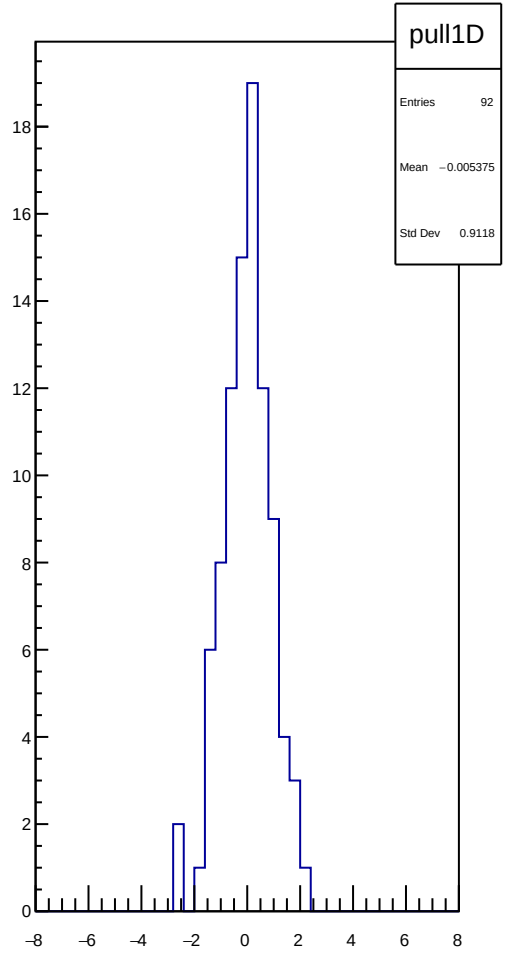

pull1D
Entries 92
Mean −0.00666
Std Dev 0.9
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

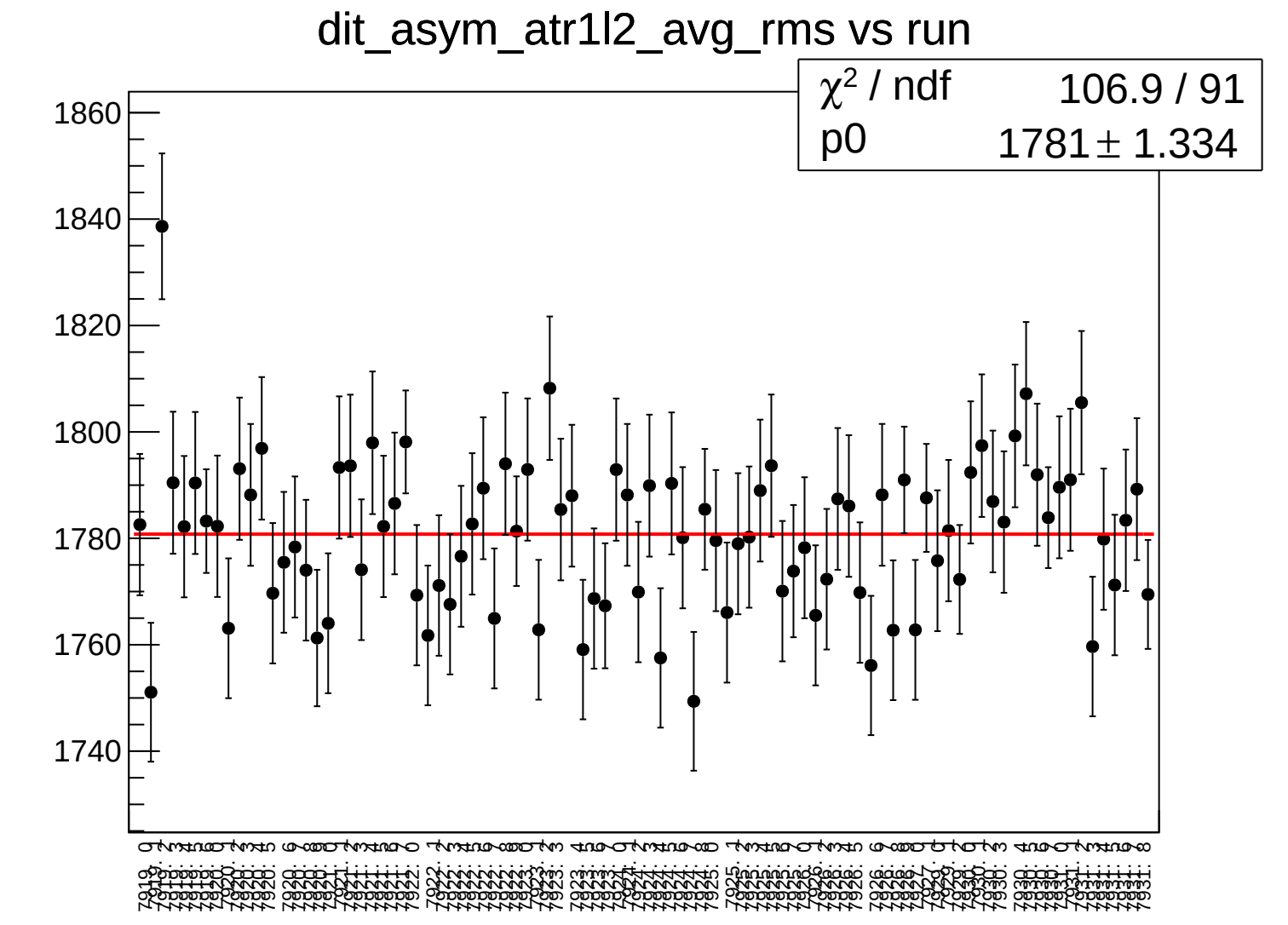

eigen_cor_asym_atr1l2_avg_rms vs run
χ^2 / ndf 113.5 / 91
p0 1769 ± 1.325
1840
1820
1800
1780
1760
1740
1720

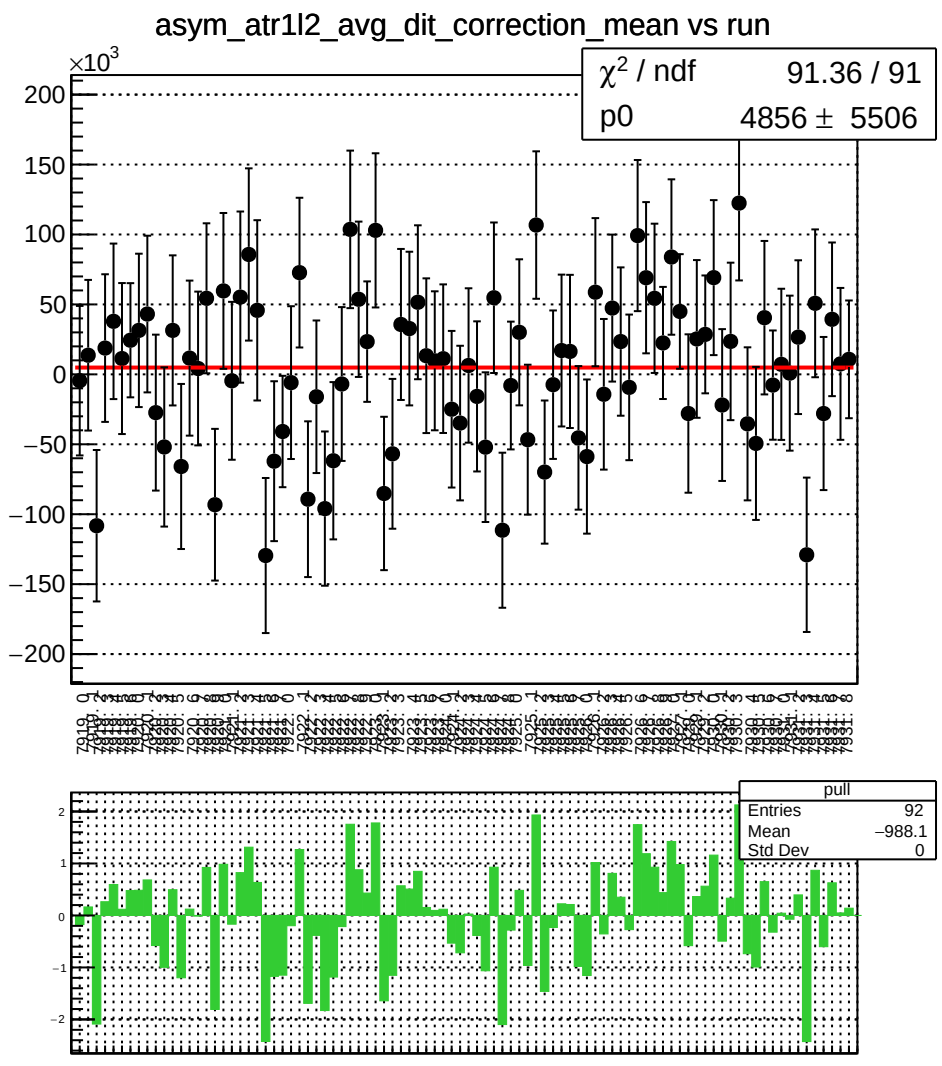

asym_atr1l2_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 91.25 / 91
p0 5128 ± 5447
pull
Entries 92
Mean −614.7
Std Dev 0
pull1D
Entries 92
Mean −0.004911
Std Dev 0.9959

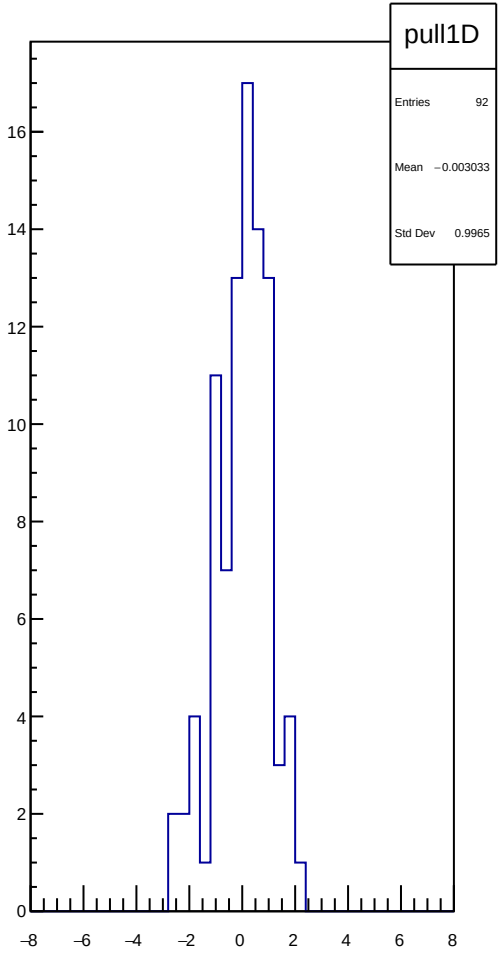

asym_atr1l2_avg_eigen_cor_correction_rms vs run
χ² / ndf 2545 / 91
p0 5139 ± 3.851
6200
6000
5800
5600
5400
5200
5000
4800
4600

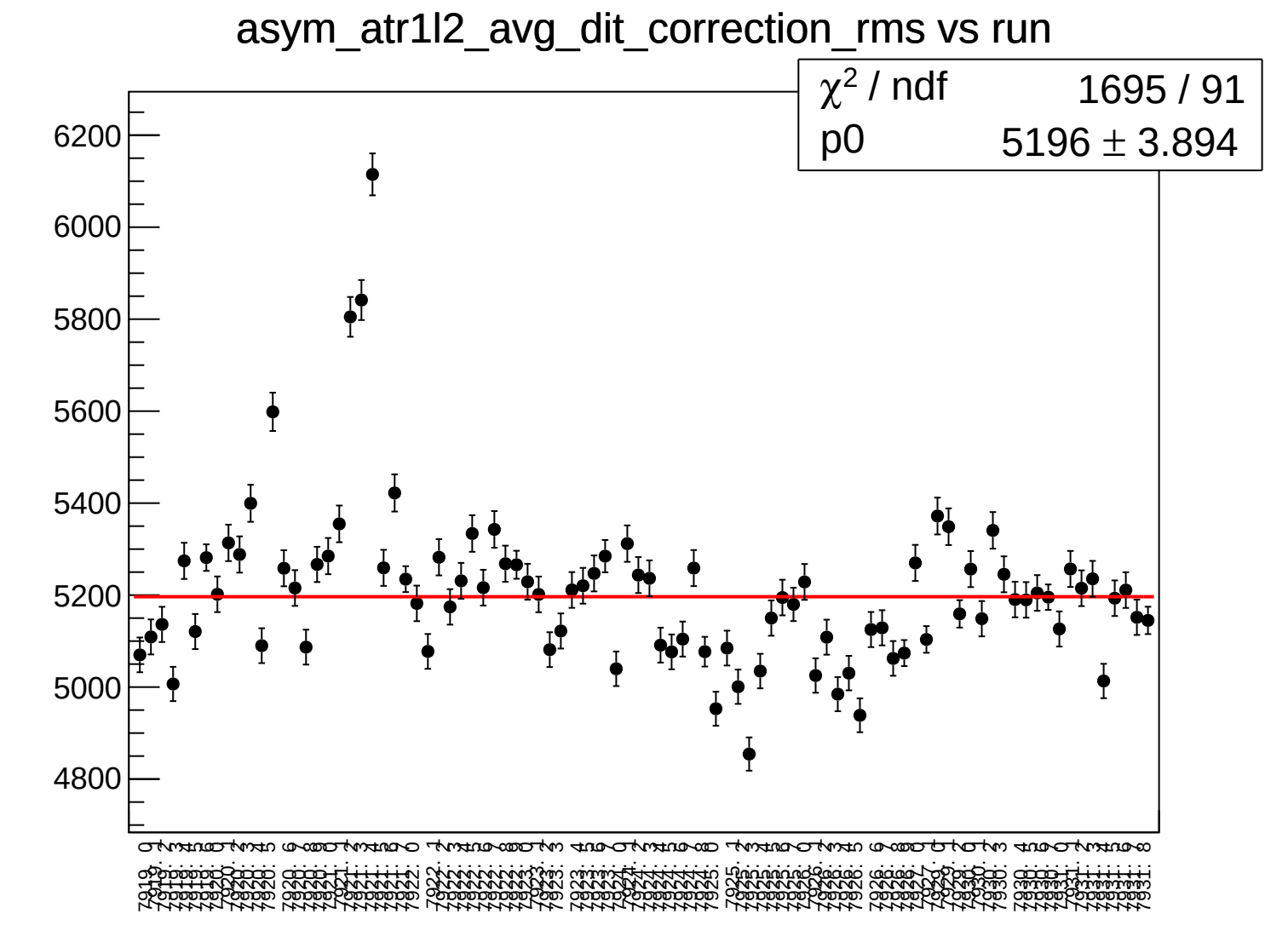

dit_asym_atr1l2_avg_mean vs run
χ² / ndf 76.48 / 91
p0 2104 ± 1886
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 366.9
Std Dev 0
2
1
0
−1
−2

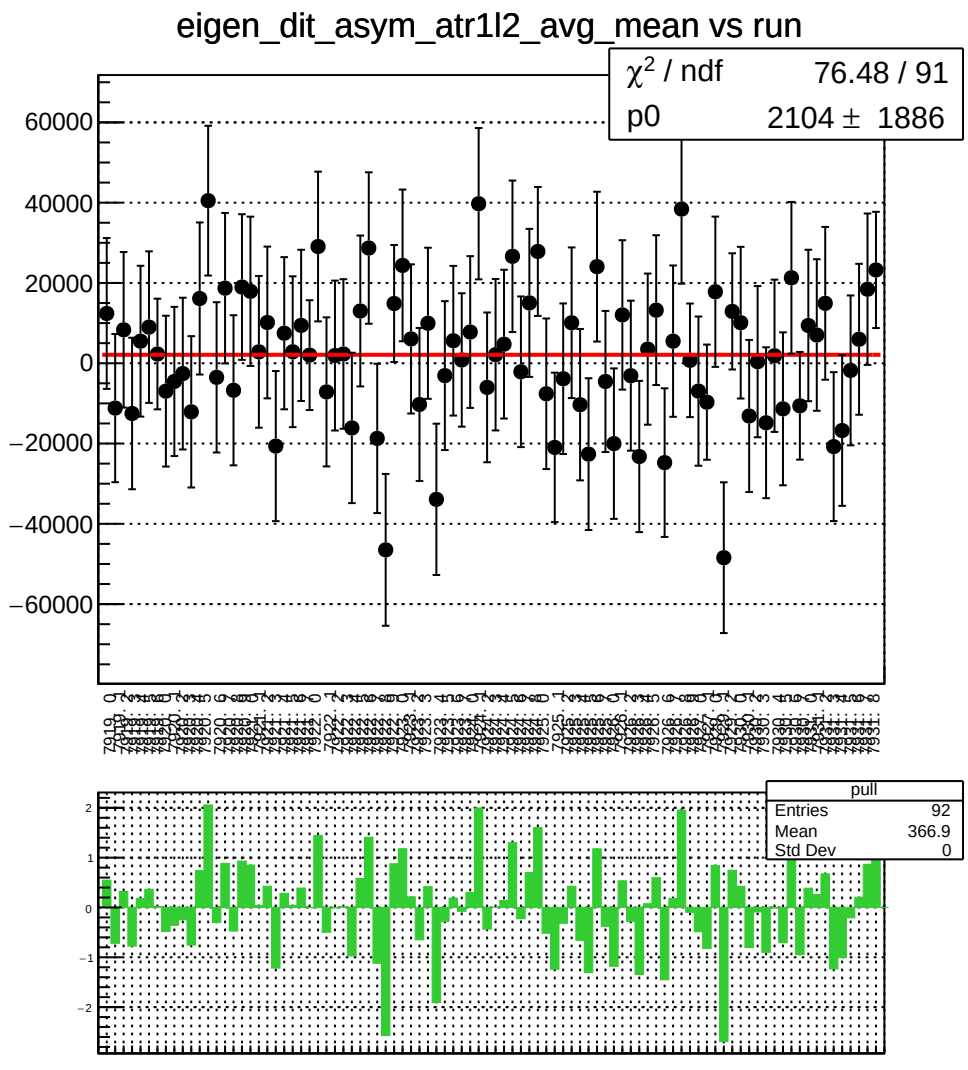

pull1D
Entries 92
Mean −0.005375
Std Dev 0.9118
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

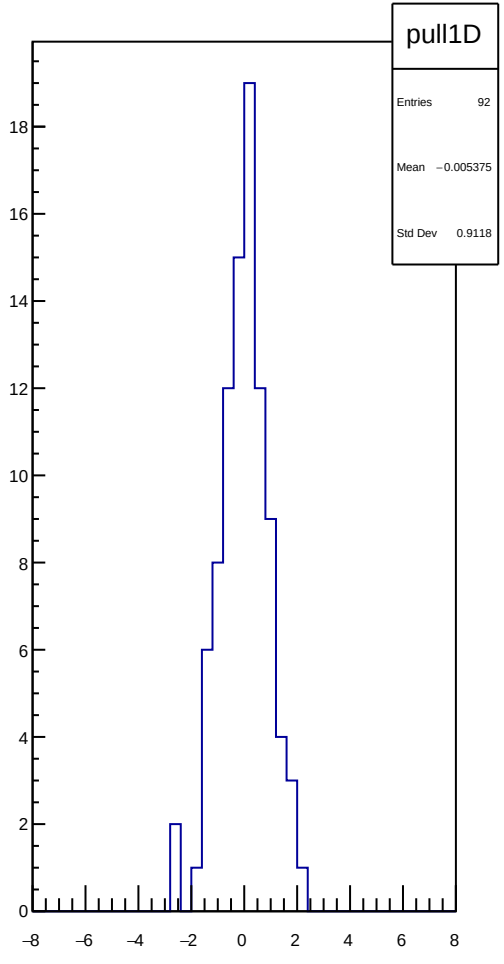

dit_asym_atr1l2_avg_rms vs run
χ² / ndf 106.9 / 91
p0 1781 ± 1.334
1860
1840
1820
1800
1780
1760
1740

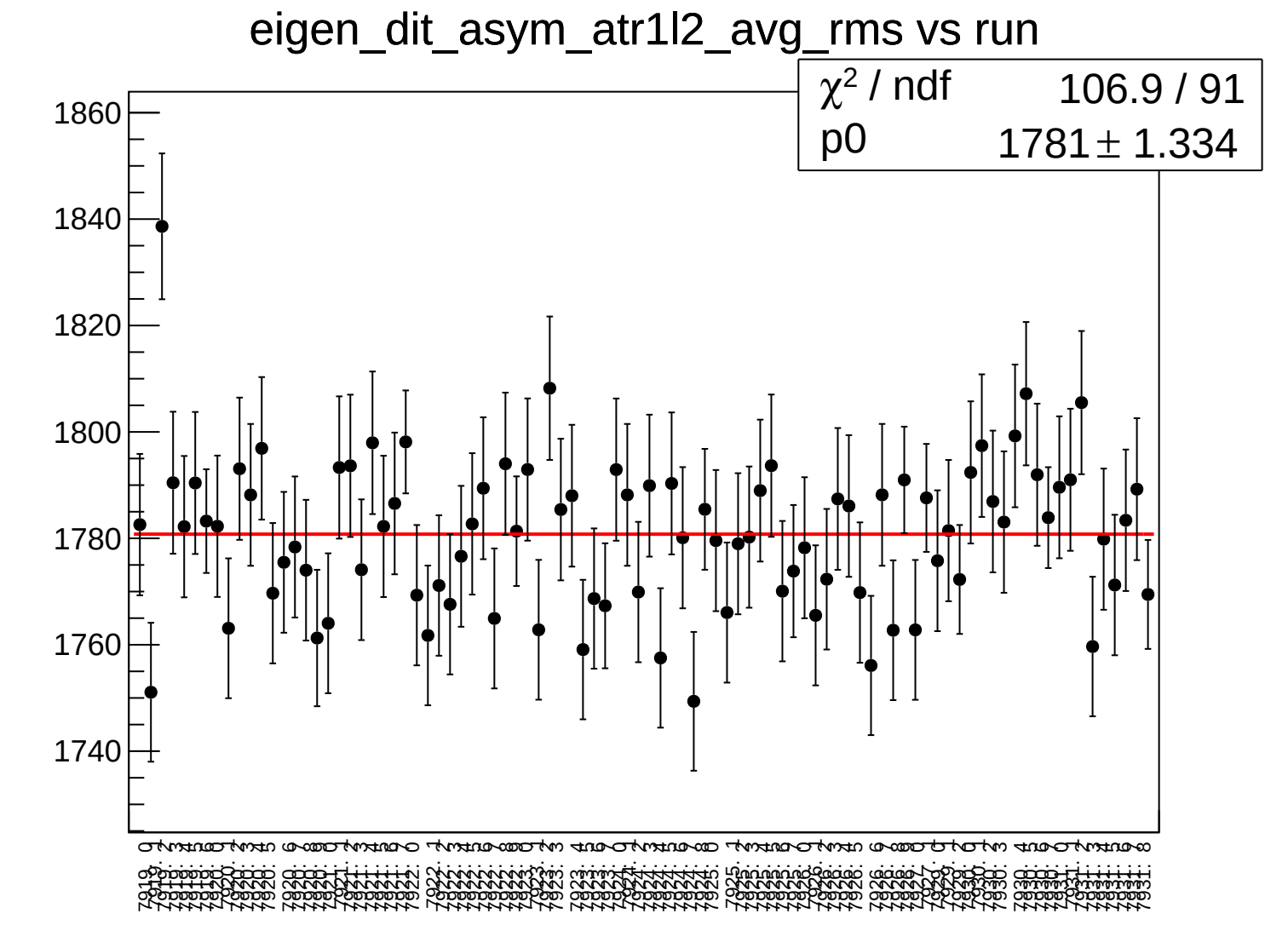

asym_atr1l2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 91.36 / 91
p0 4856 ± 5506
pull
Entries 92
Mean −988.1
Std Dev 0

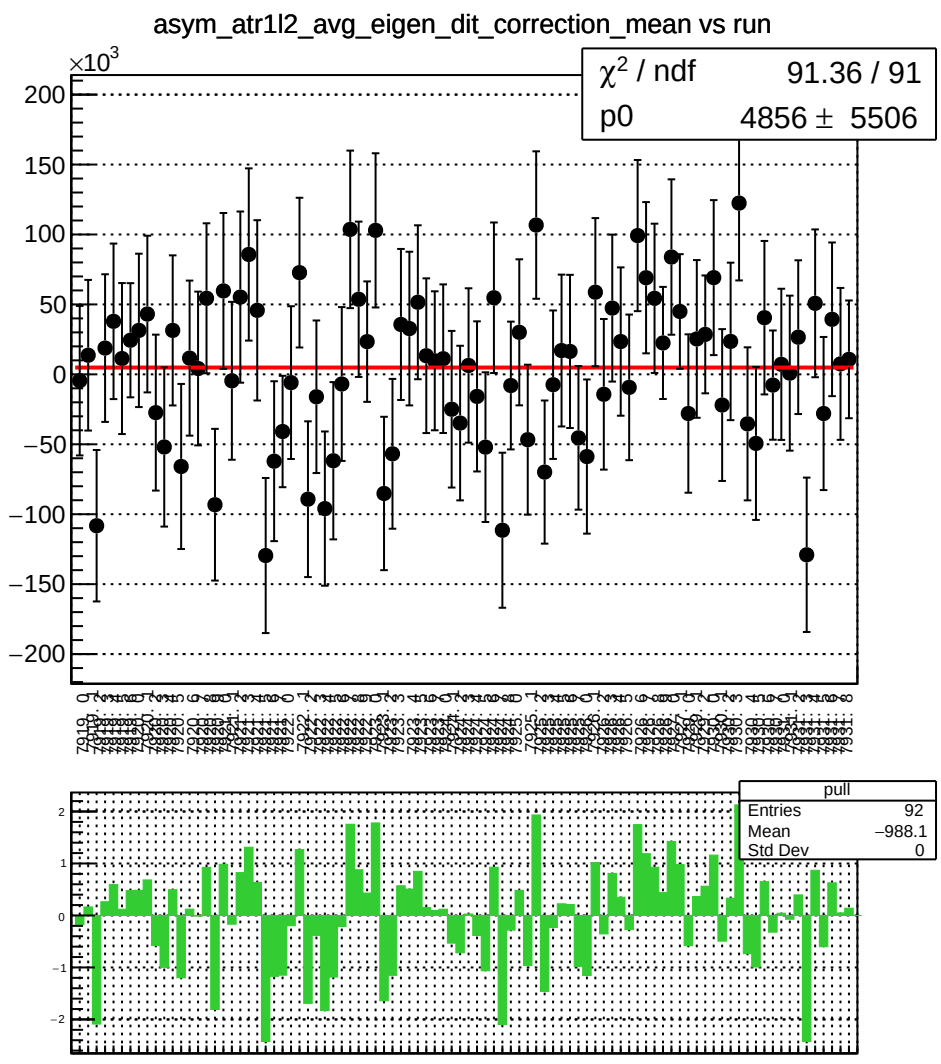

pull1D
Entries 92
Mean −0.003033
Std Dev 0.9965

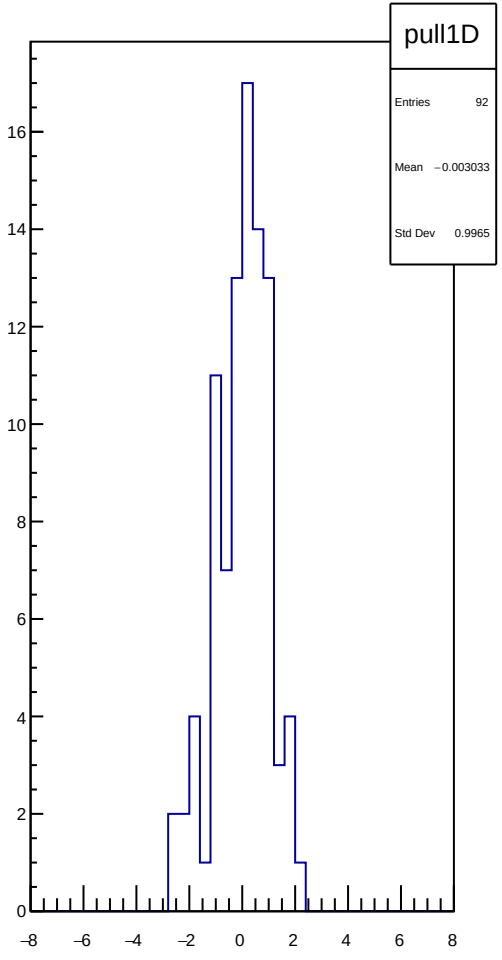

asym_atr1l2_avg_dit_correction_rms vs run
χ² / ndf 1695 / 91
p0 5196 ± 3.894
6200
6000
5800
5600
5400
5200
5000
4800

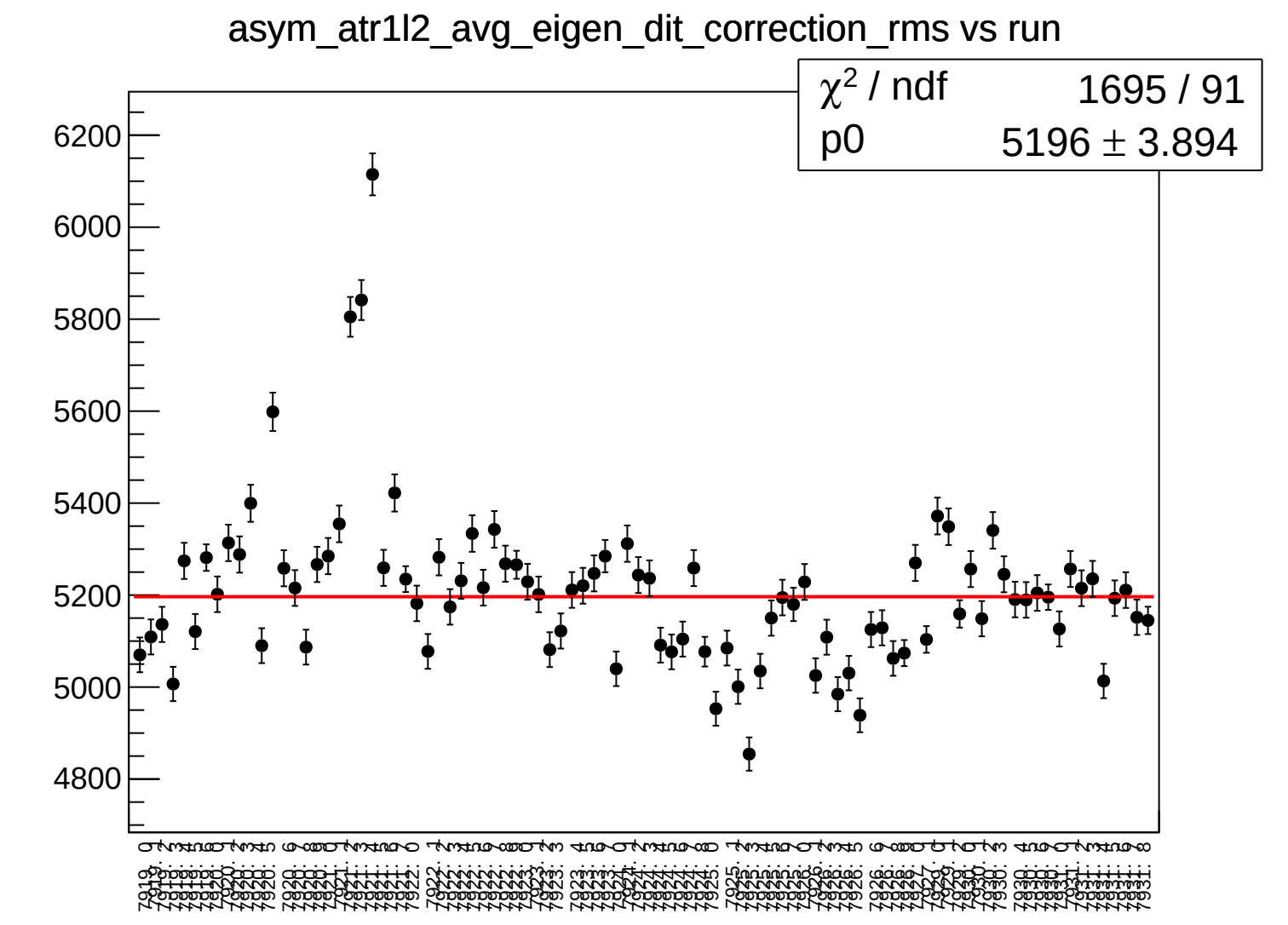

eigen_dit_asym_atr1l2_avg_mean vs run
χ² / ndf 76.48 / 91
p0 2104 ± 1886
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 366.9
Std Dev 0
2
1
0
−1
−2

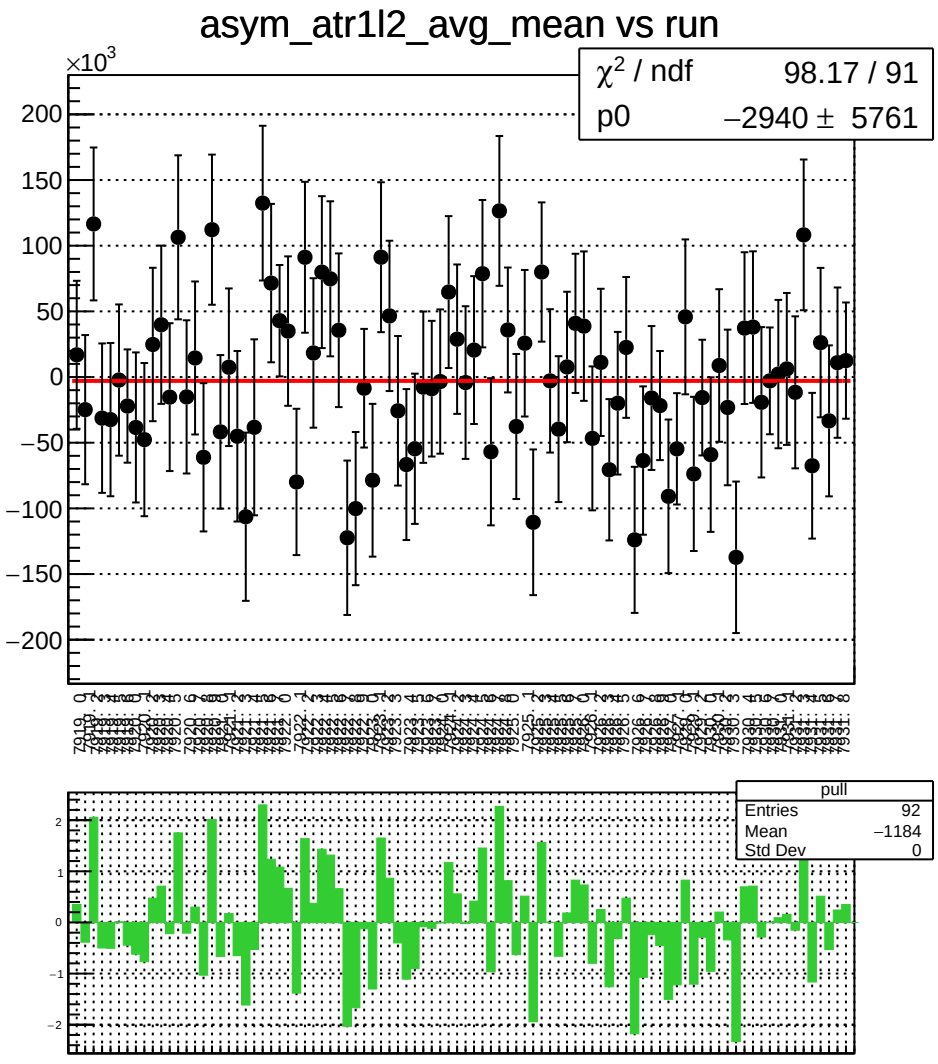

pull1D
Entries 92
Mean −0.005375
Std Dev 0.9118
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

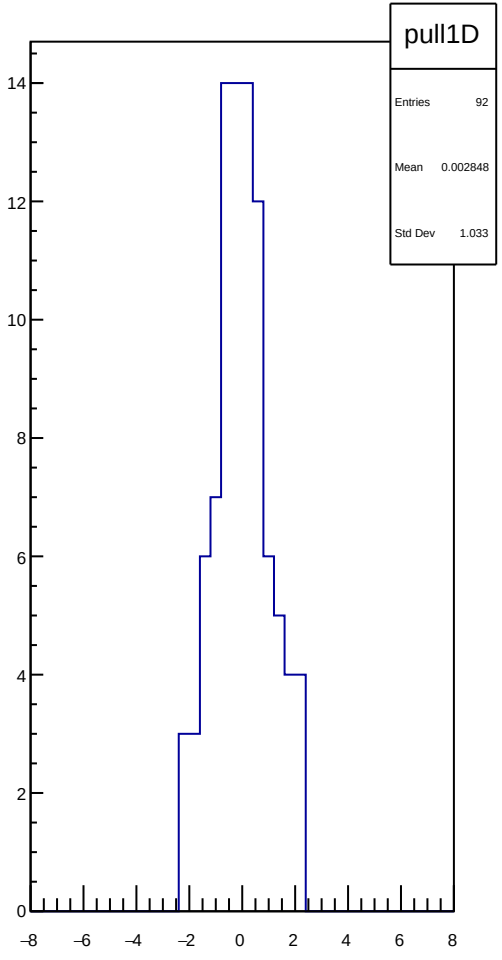

eigen_dit_asym_atr1l2_avg_rms vs run
χ² / ndf 106.9 / 91
p0 1781 ± 1.334
1860
1840
1820
1800
1780
1760
1740

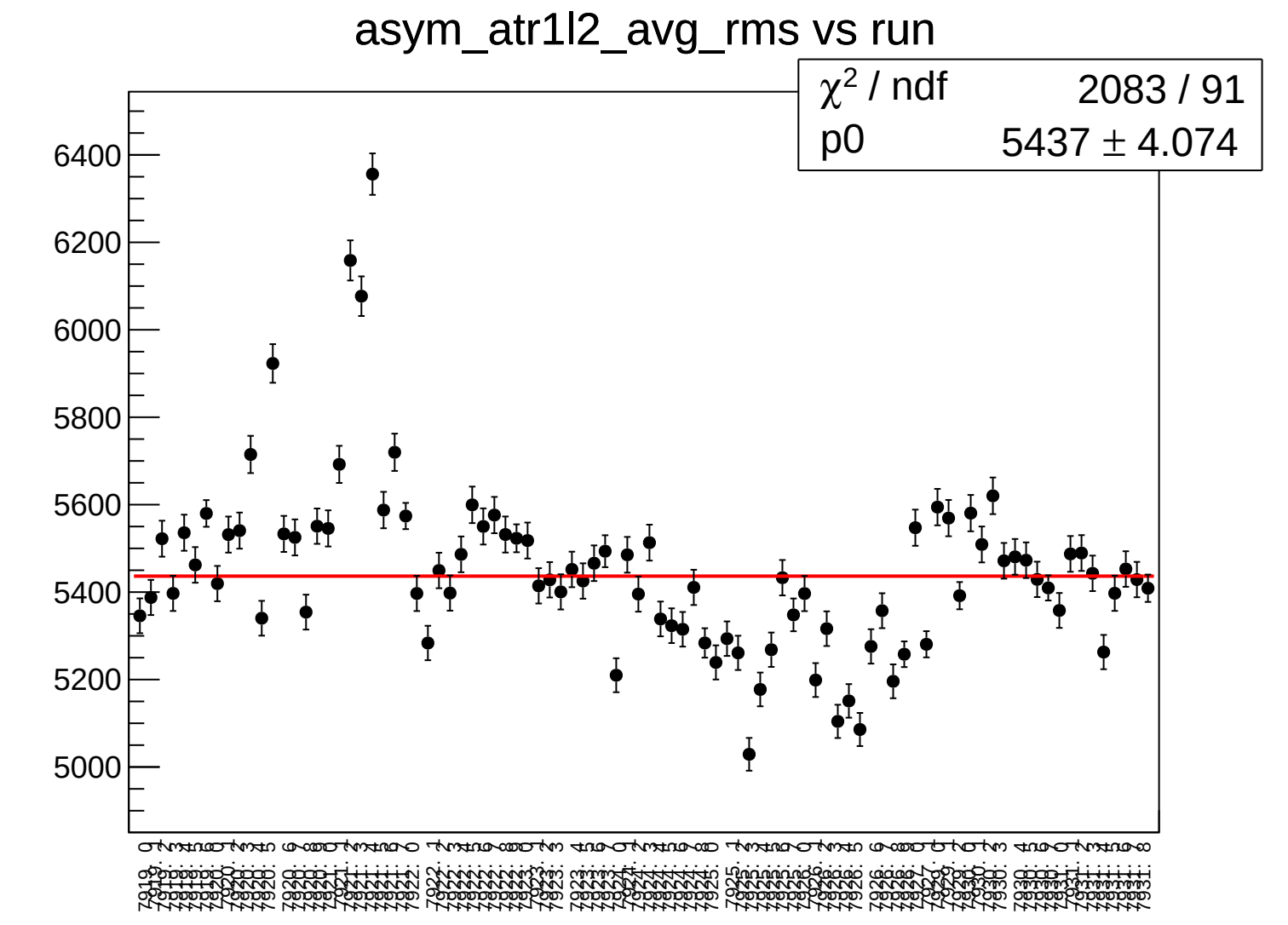

asym_atr1l2_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 91.36 / 91
p0 4856 ± 5506
pull
Entries 92
Mean −988.1
Std Dev 0

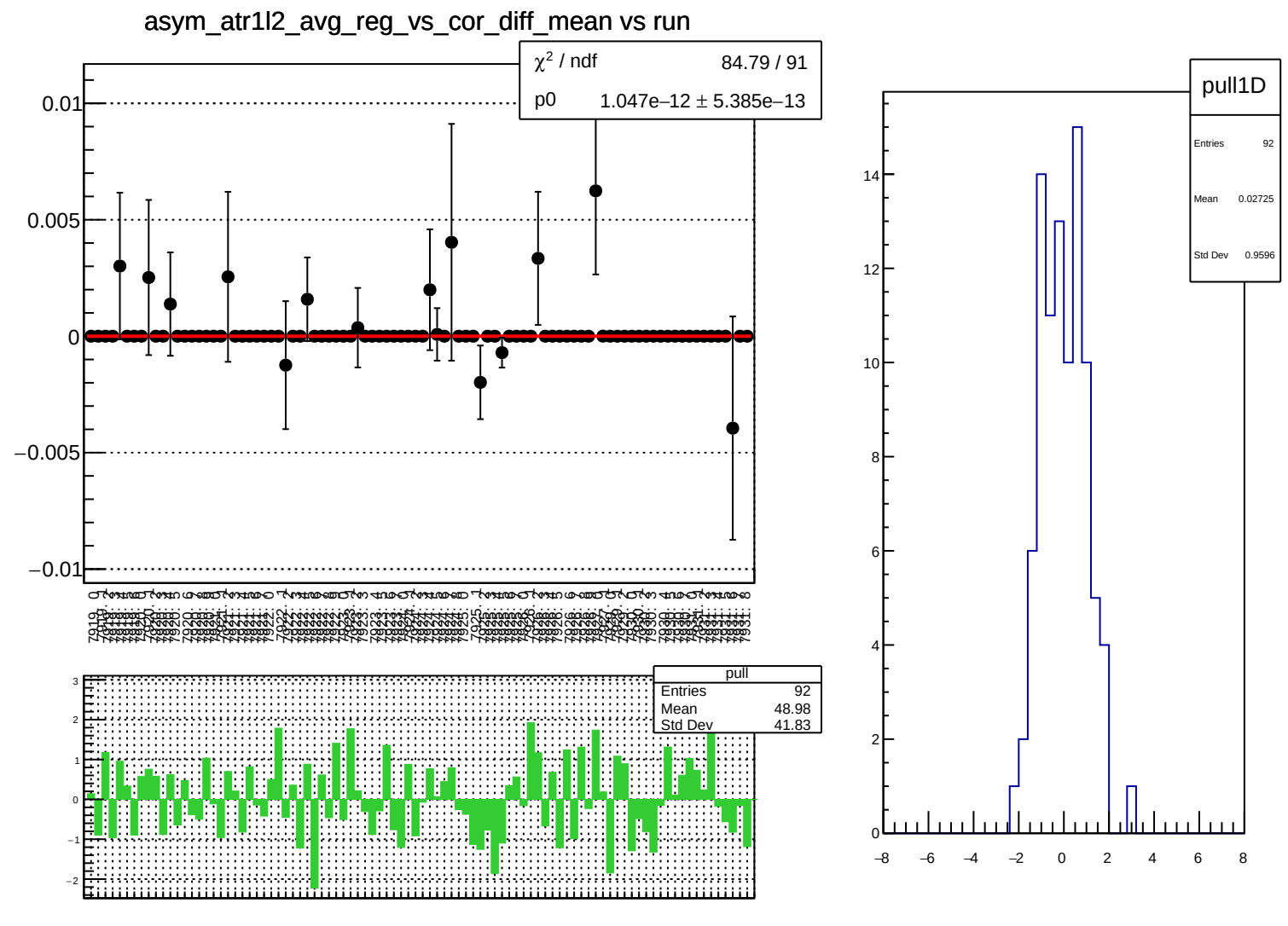

pull1D
Entries 92
Mean −0.003033
Std Dev 0.9965

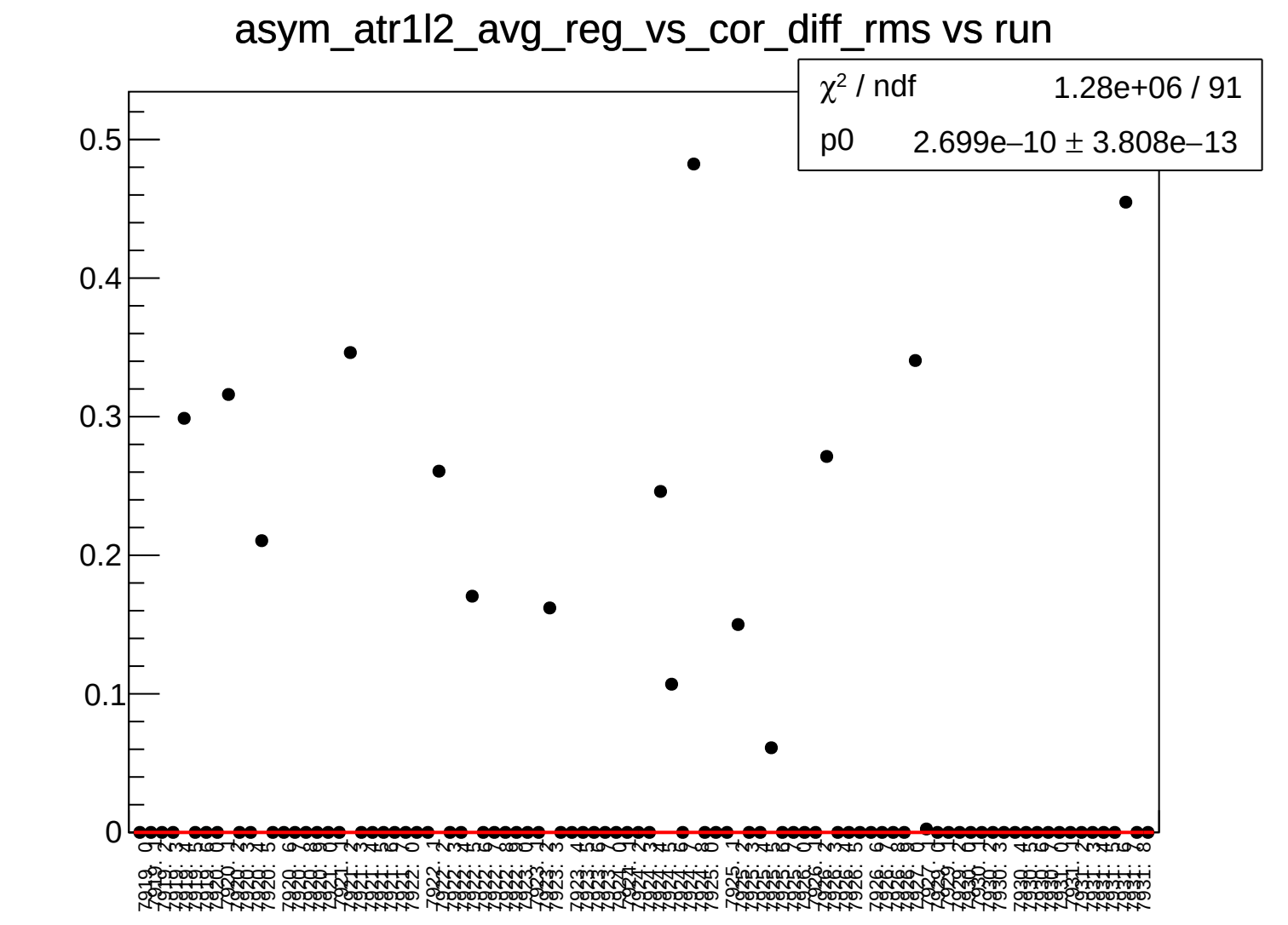

asym_atr1l2_avg_eigen_dit_correction_rms vs run
χ² / ndf 1695 / 91
p0 5196 ± 3.894
6200
6000
5800
5600
5400
5200
5000
4800


asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 98.17 / 91
p0 −2940 ± 5761
pull
Entries 92
Mean −1184
Std Dev 0

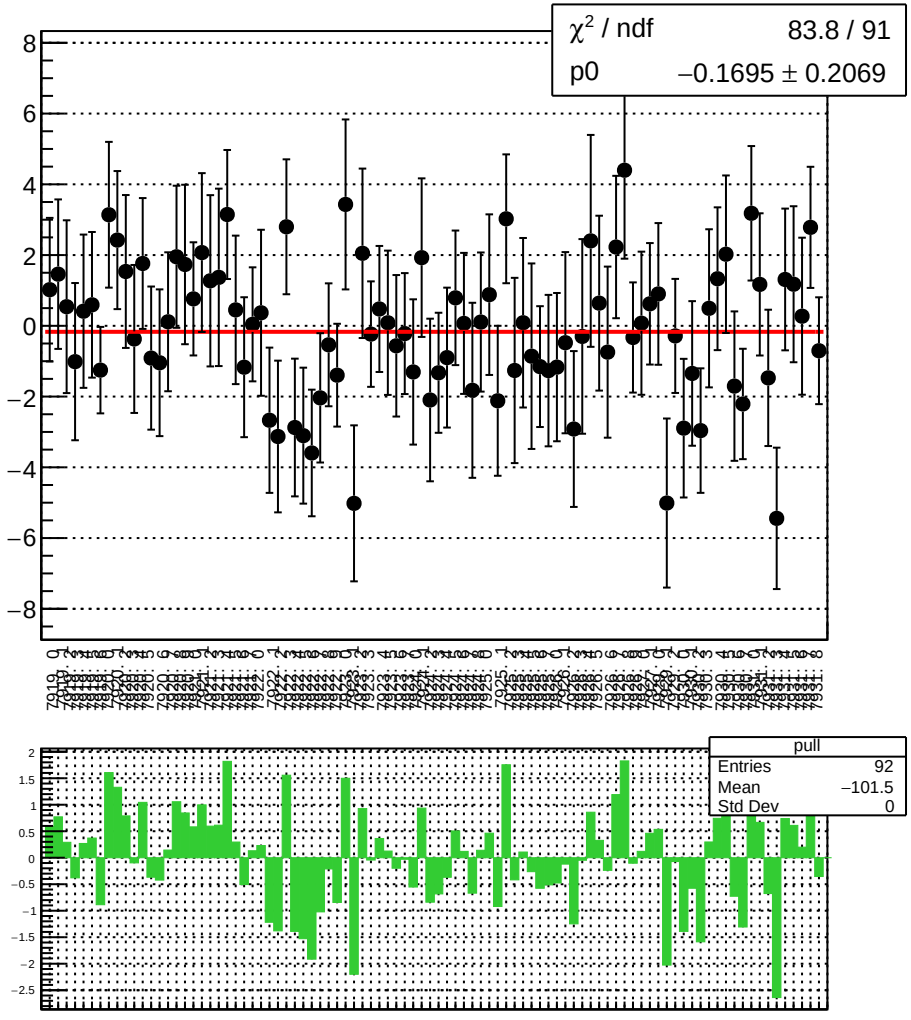

pull1D
Entries 92
Mean 0.002848
Std Dev 1.033

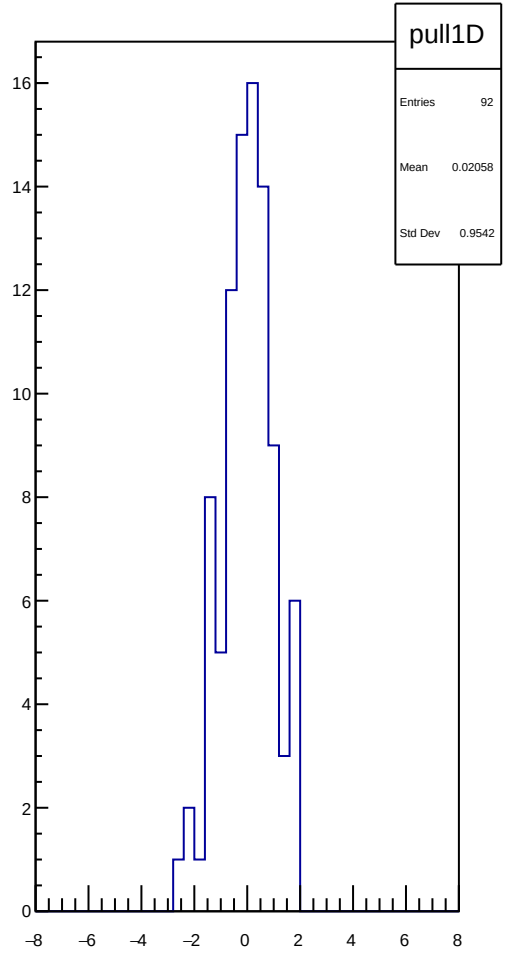

asym_atr1l2_avg_rms vs run
χ^2 / ndf 2083 / 91
p0 5437 ± 4.074
6400
6200
6000
5800
5600
5400
5200
5000

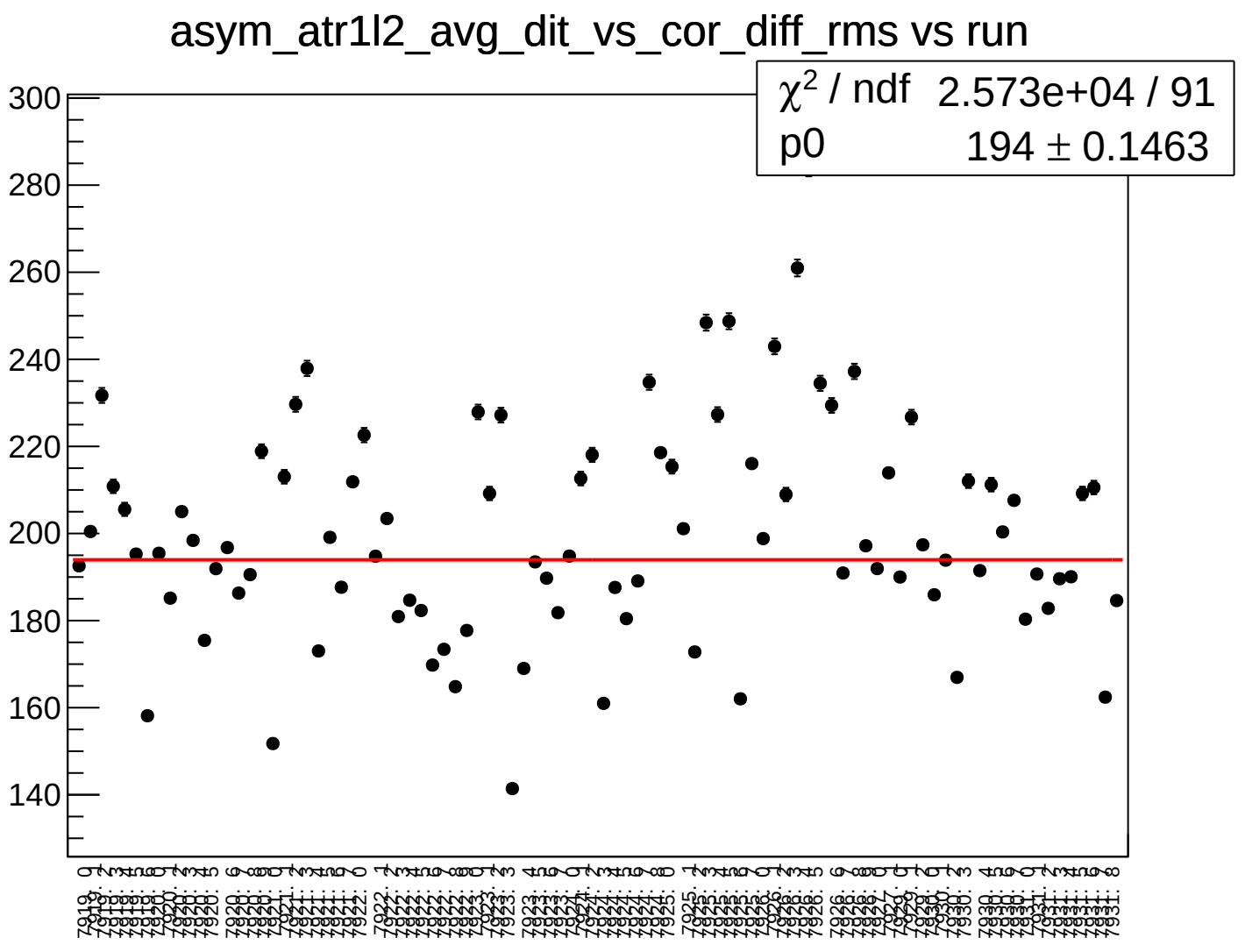

asym_atr1l2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 84.79 / 91
p0 1.047e−12 ± 5.385e−13
0.01
0.005
0
−0.005
−0.01
pull
Entries 92
Mean 48.98
Std Dev 41.83
3
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.02725
Std Dev 0.9596
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr1l2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.28e+06 / 91
p0 2.699e−10 ± 3.808e−13
0.5
0.4
0.3
0.2
0.1
0

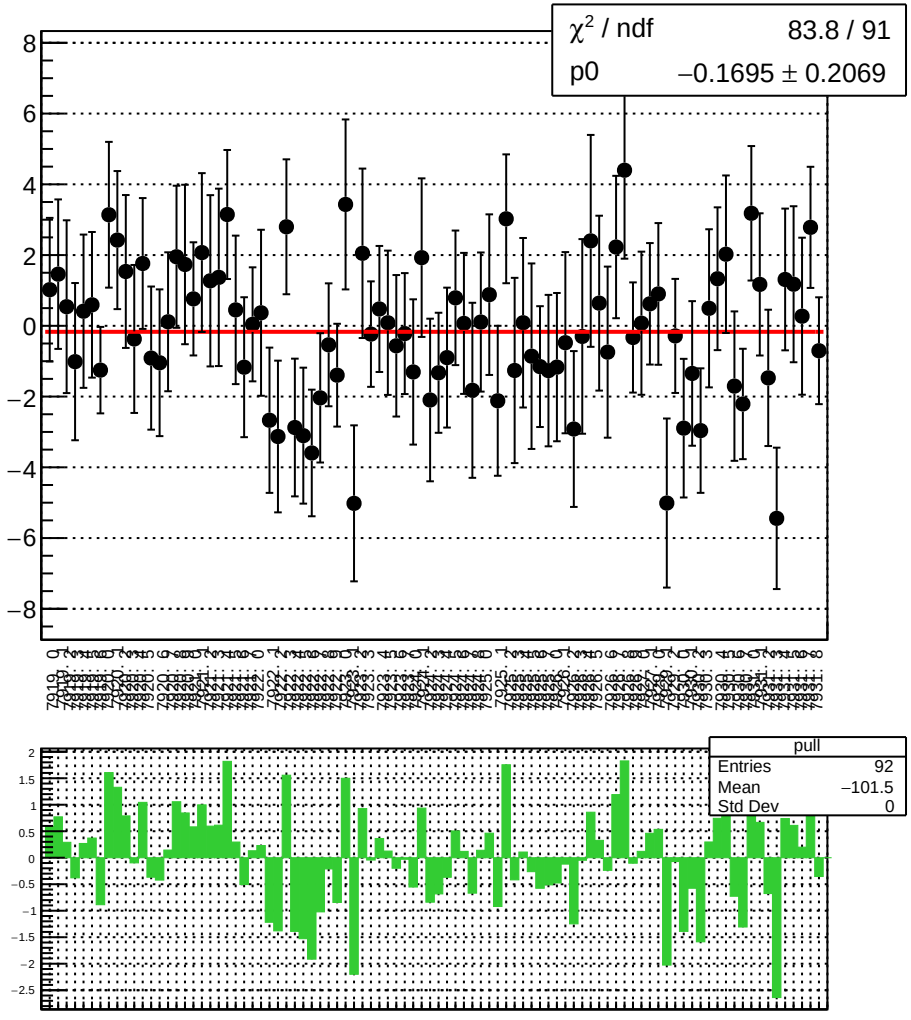
asym_atr1l2_avg_dit_vs_cor_diff_mean vs run

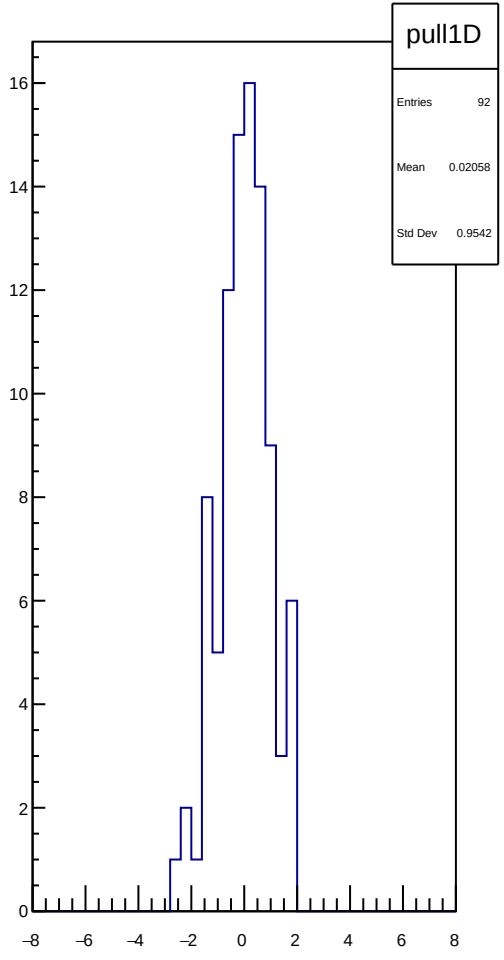


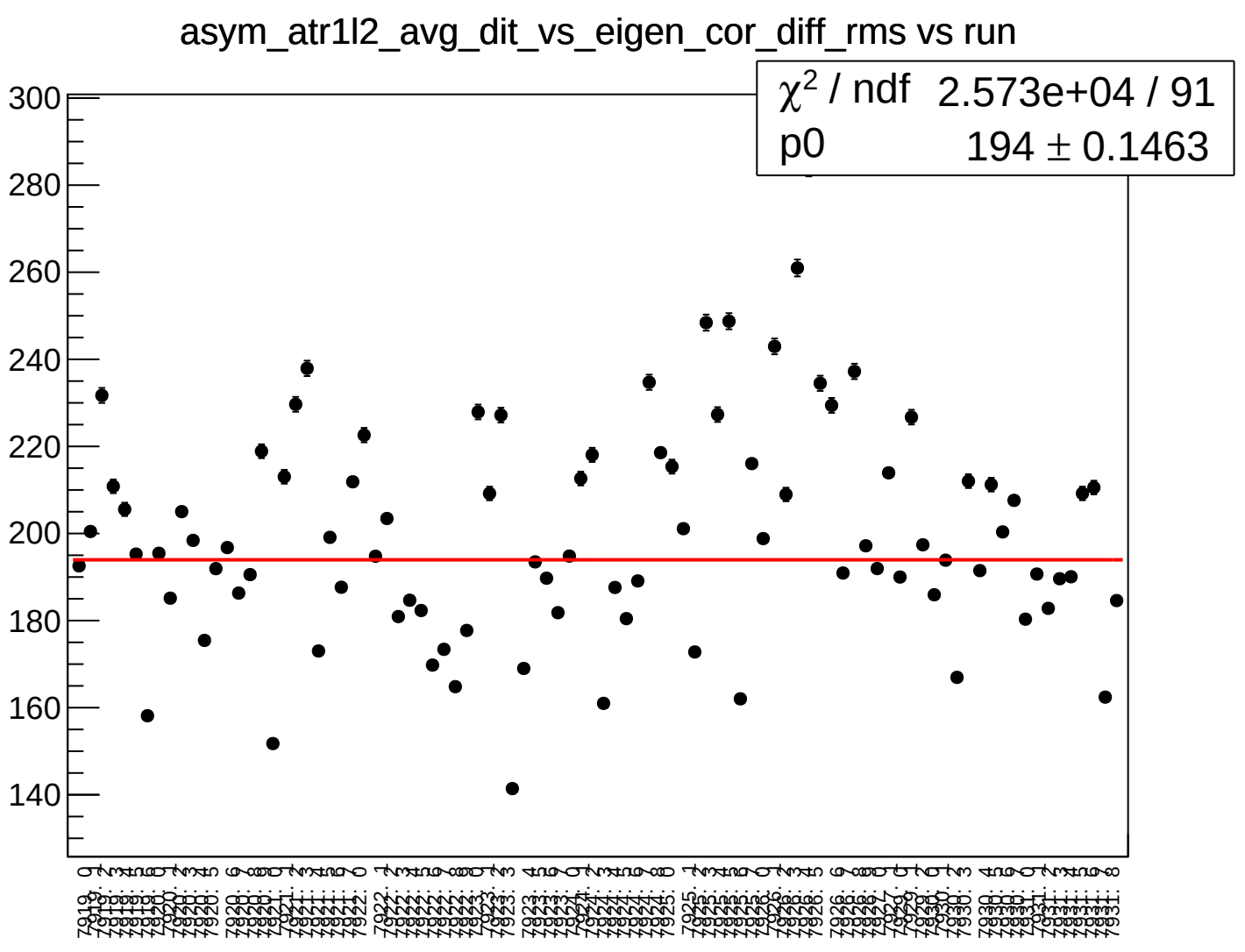


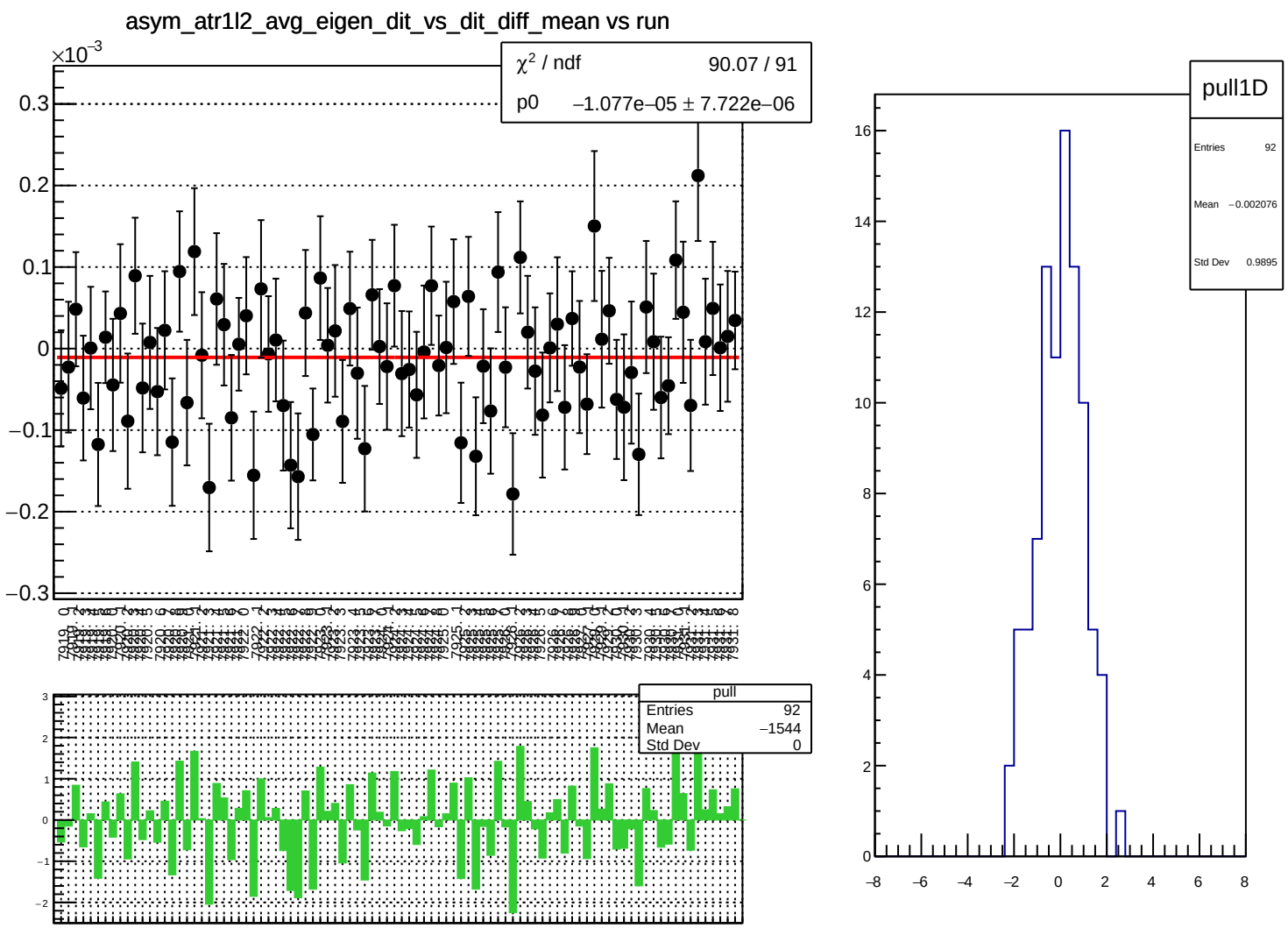

asym_atr1l2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.573e+04 / 91
p0 194 ± 0.1463
300
280
260
240
220
200
180
160
140

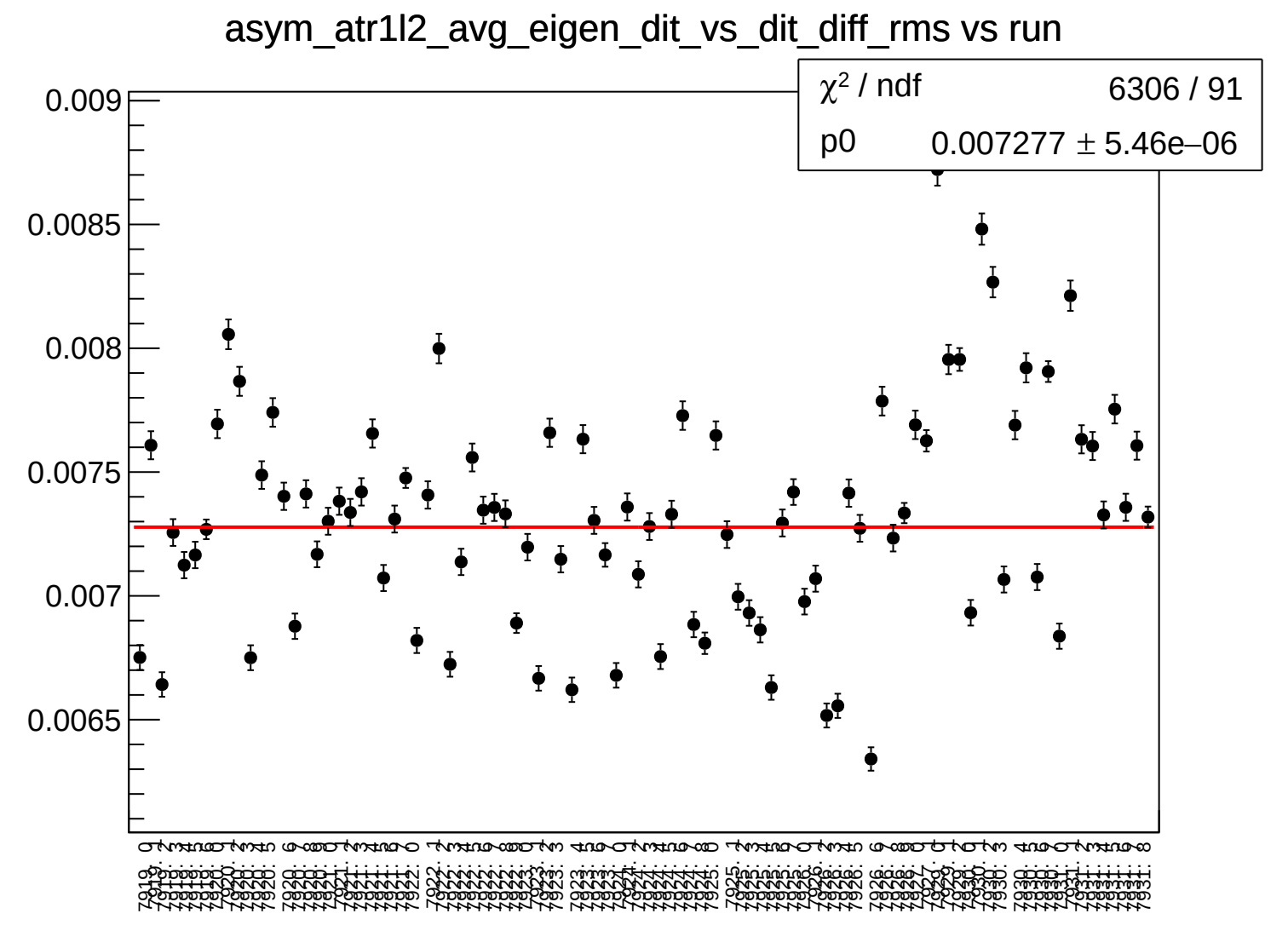
asym_atr1l2_avg_dit_vs_eigen_cor_diff_mean vs run



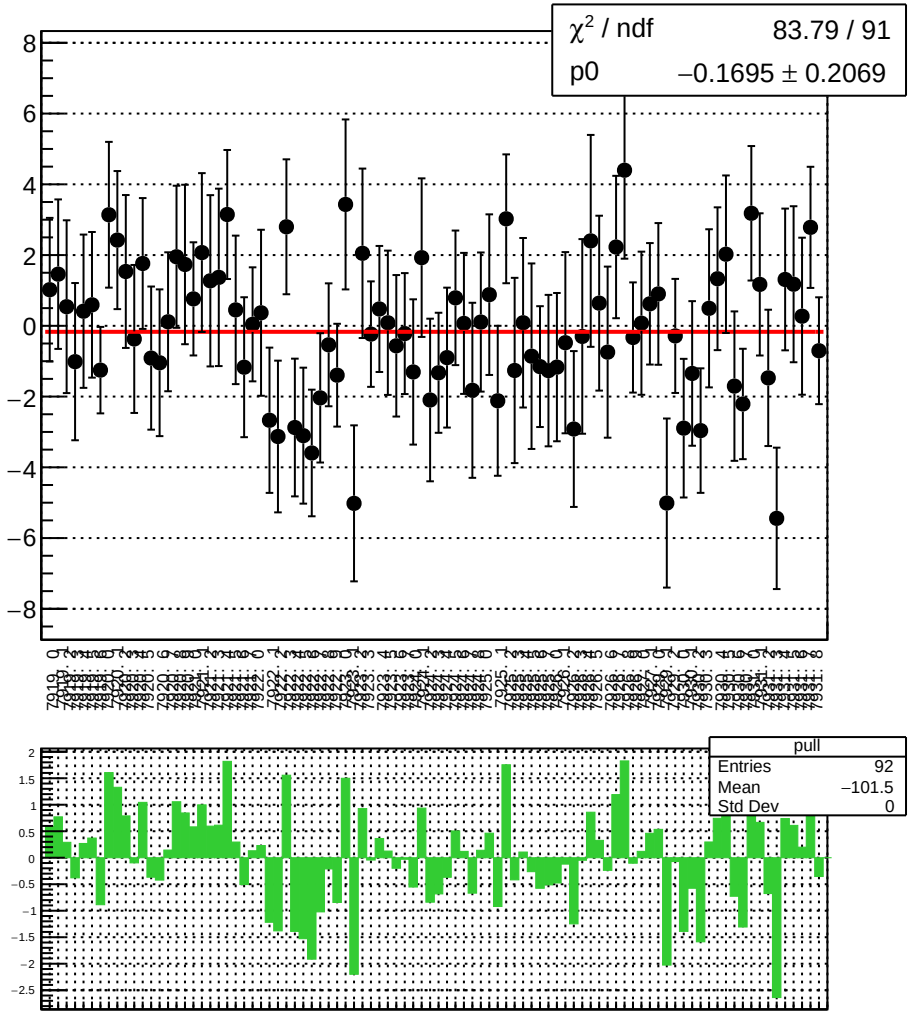


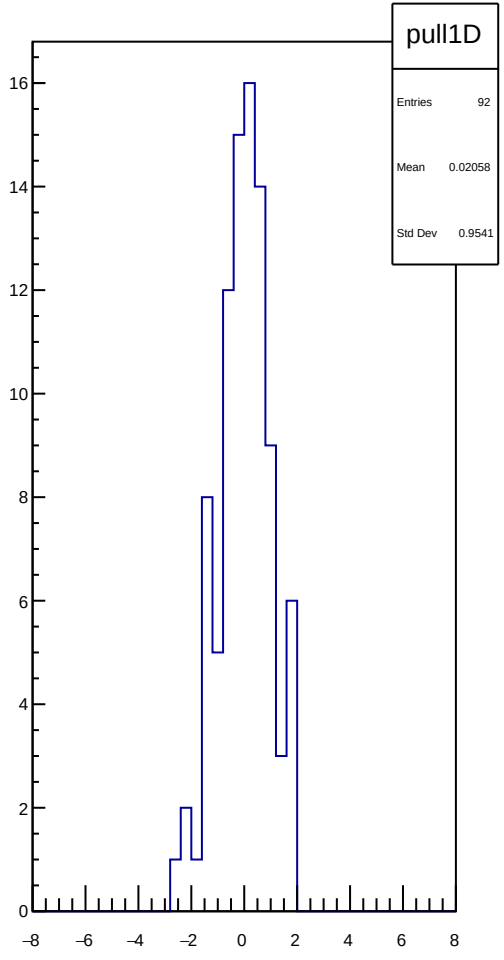

asym_atr1l2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.573e+04 / 91
p0 194 ± 0.1463
300
280
260
240
220
200
180
160
140

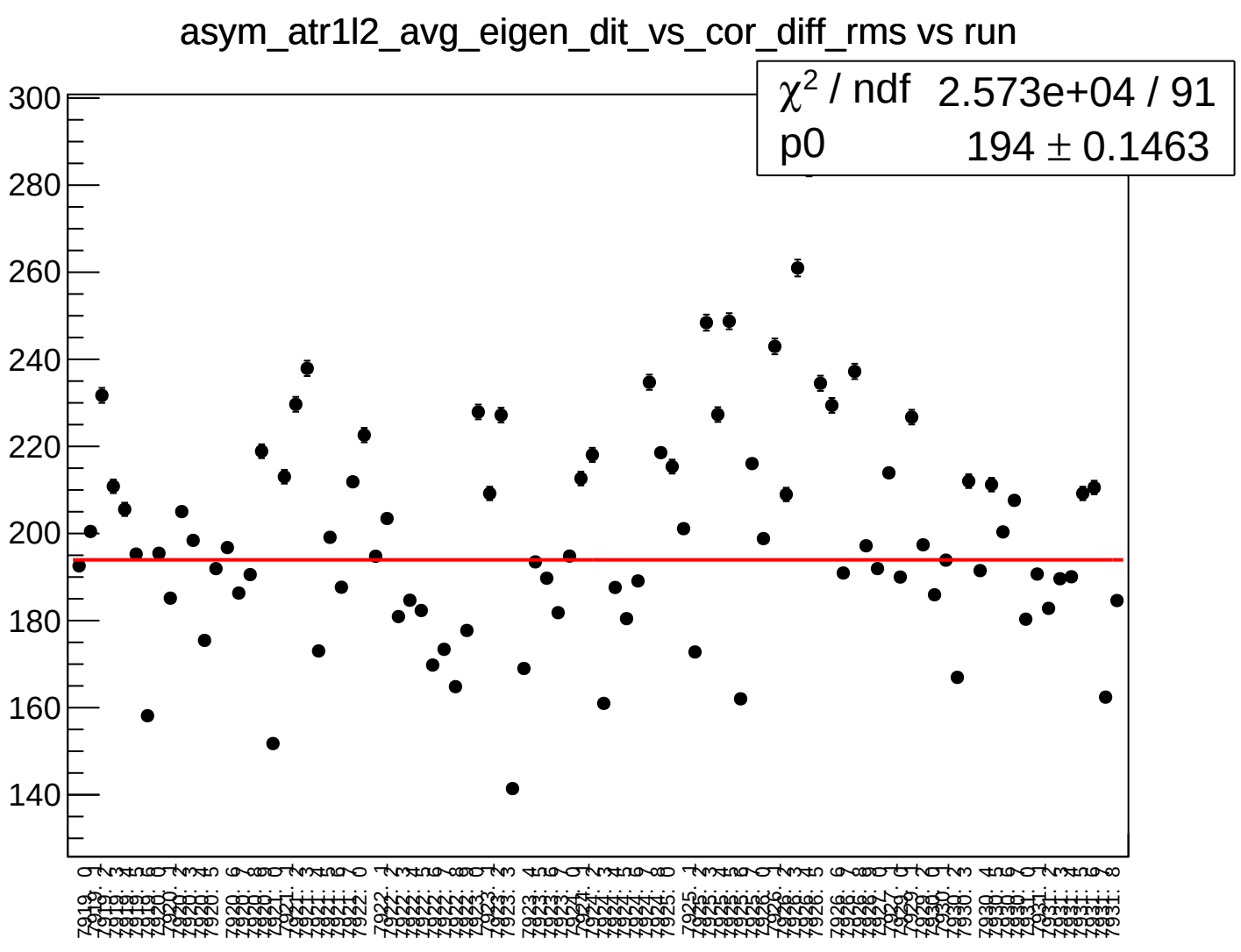

asym_atr1l2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.07 / 91
p0 −1.077e−05 ± 7.722e−06
pull
Entries 92
Mean −1544
Std Dev 0
pull1D
Entries 92
Mean −0.002076
Std Dev 0.9895

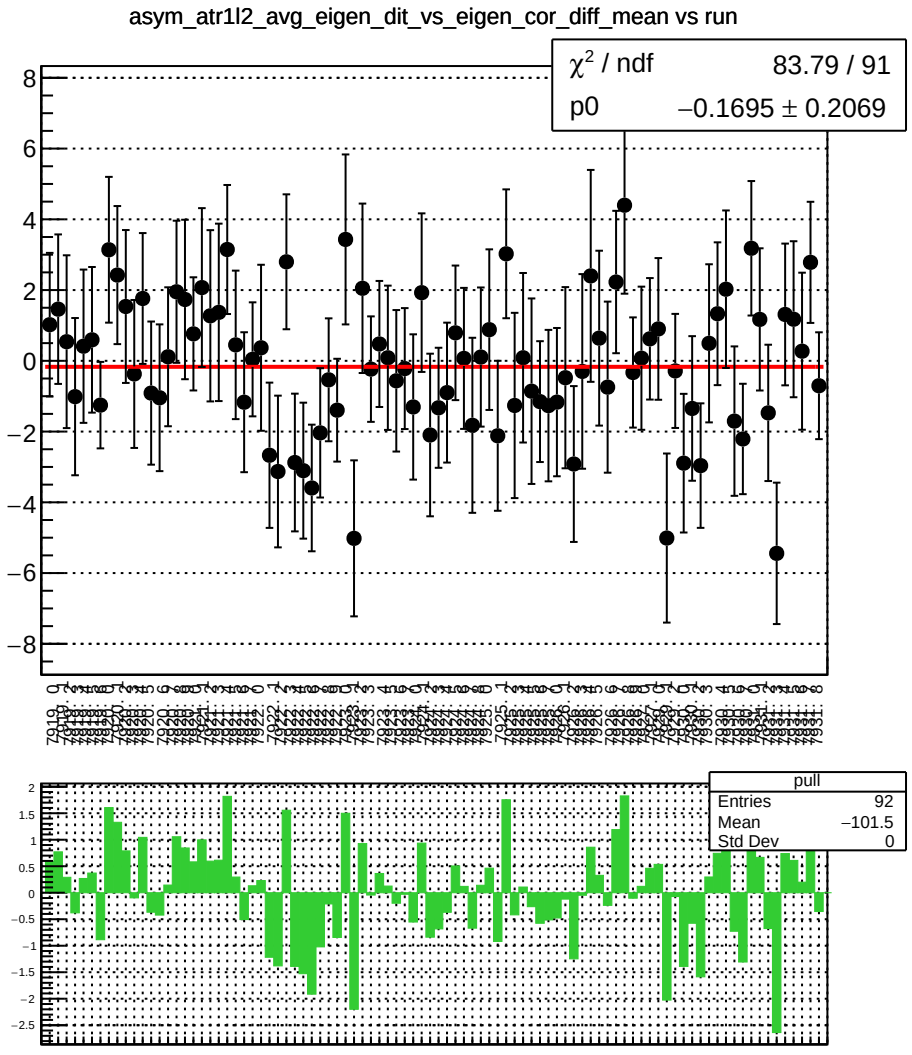

asym_atr1l2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6306 / 91
p0 0.007277 ± 5.46e−06
0.009
0.0085
0.008
0.0075
0.007
0.0065

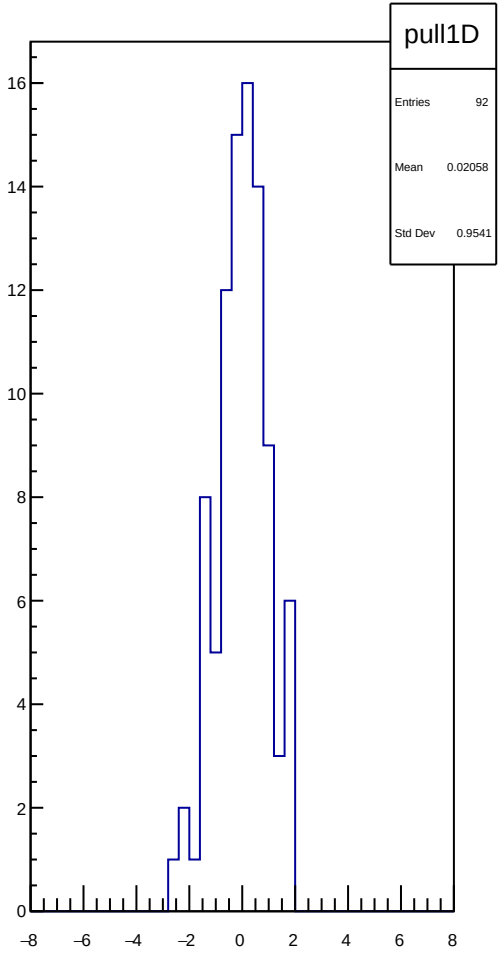
asym_atr1l2_avg_eigen_dit_vs_cor_diff_mean vs run

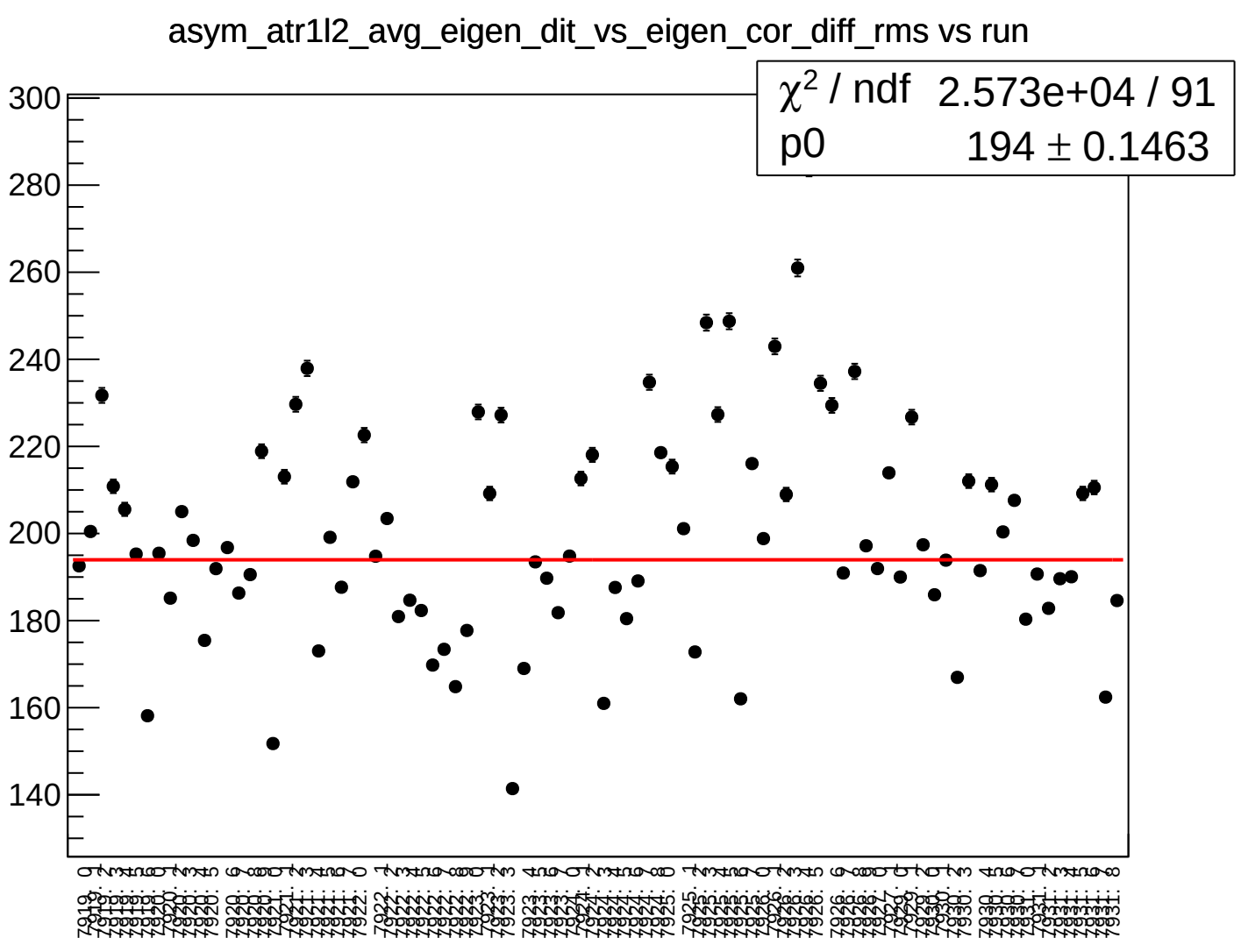


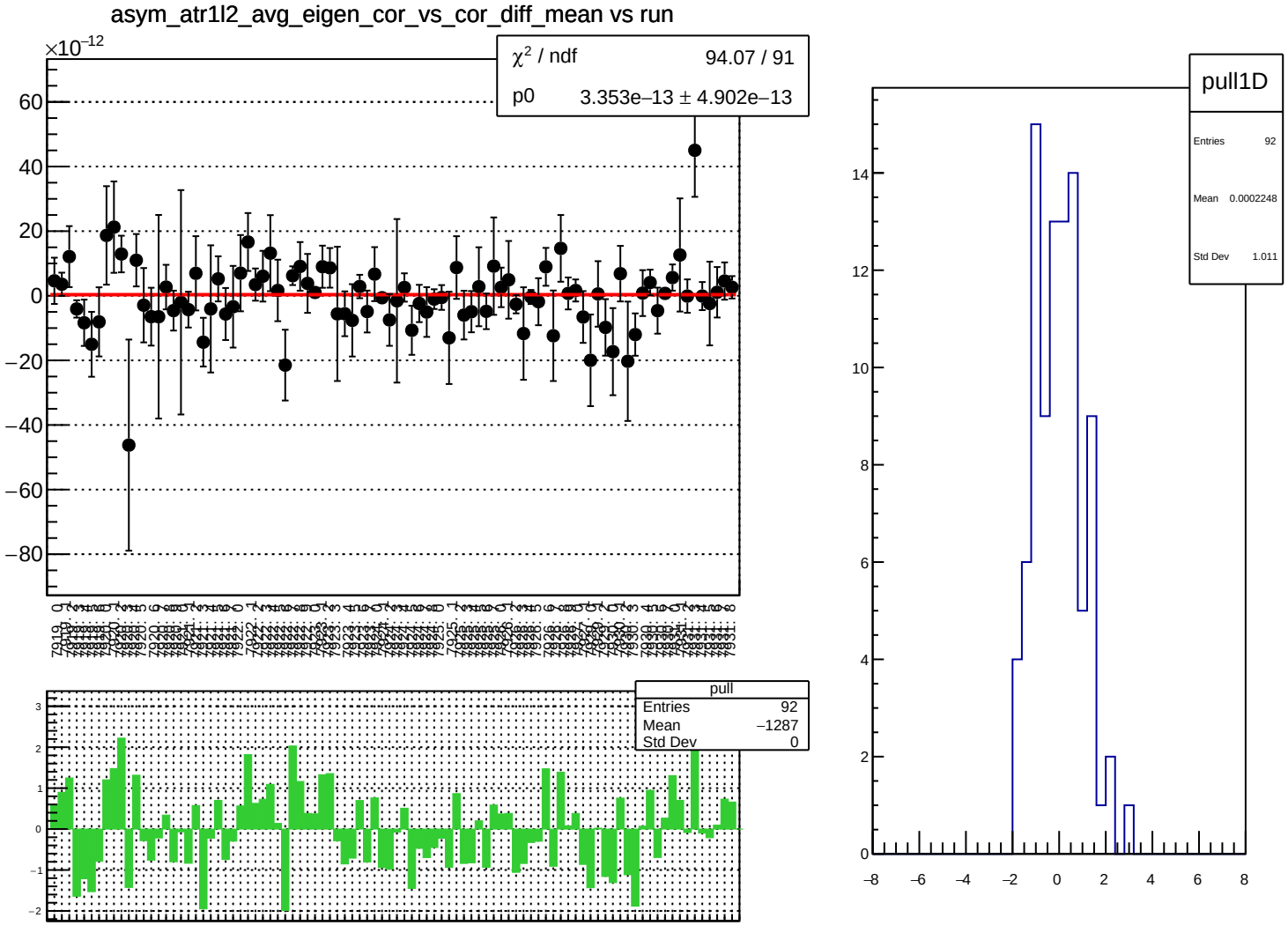


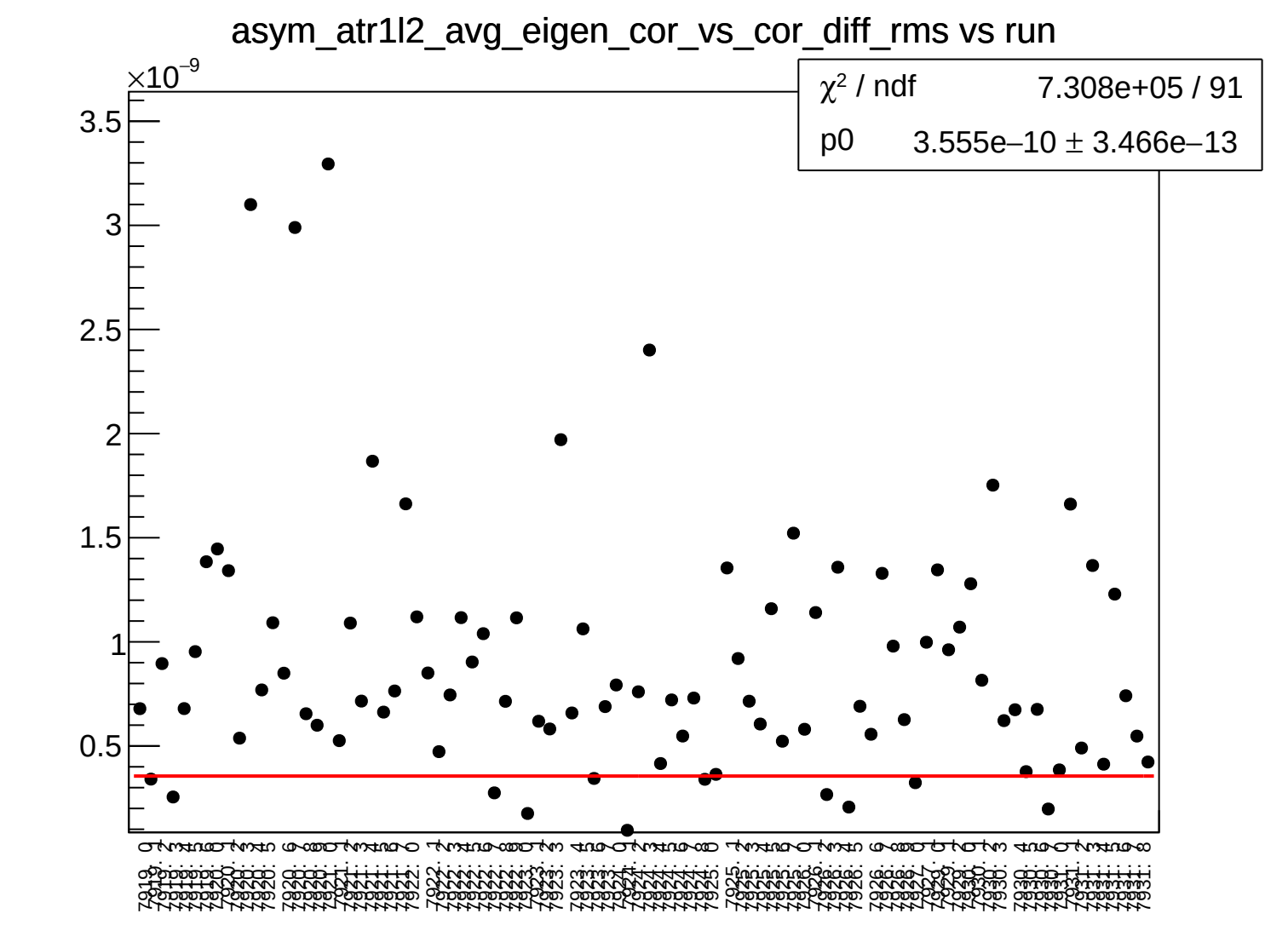

asym_atr1l2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.573e+04 / 91
p0 194 ± 0.1463
300
280
260
240
220
200
180
160
140

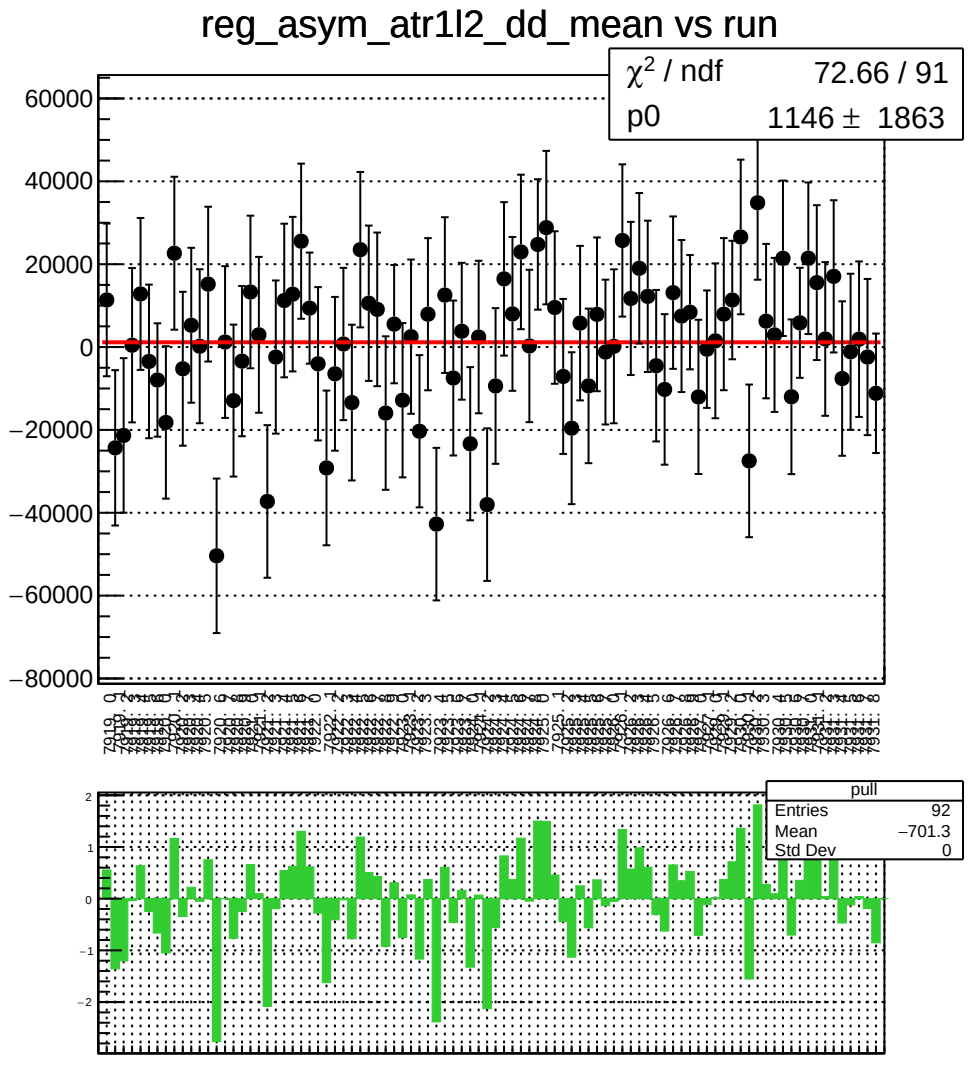

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.79 / 91
p0 −0.1695 ± 0.2069
pull
Entries 92
Mean −101.5
Std Dev 0

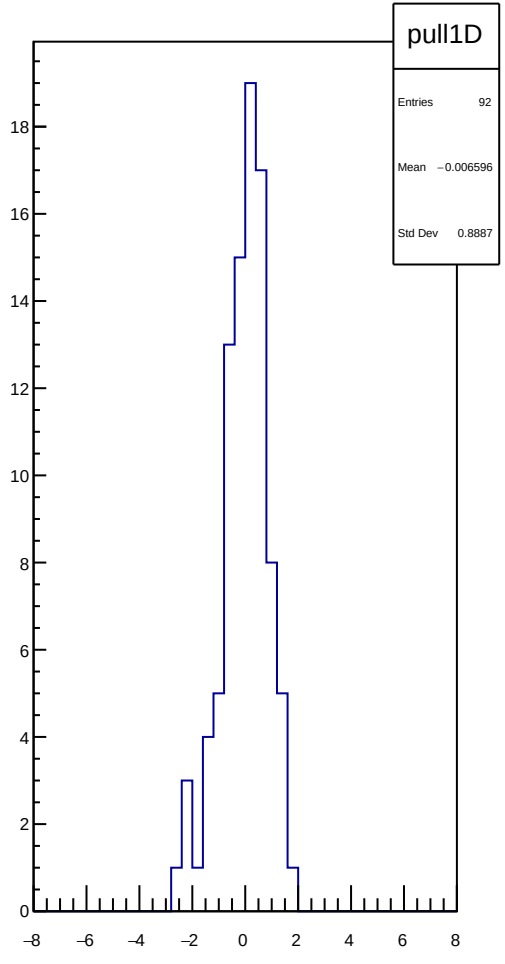

pull1D
Entries 92
Mean 0.02058
Std Dev 0.9541

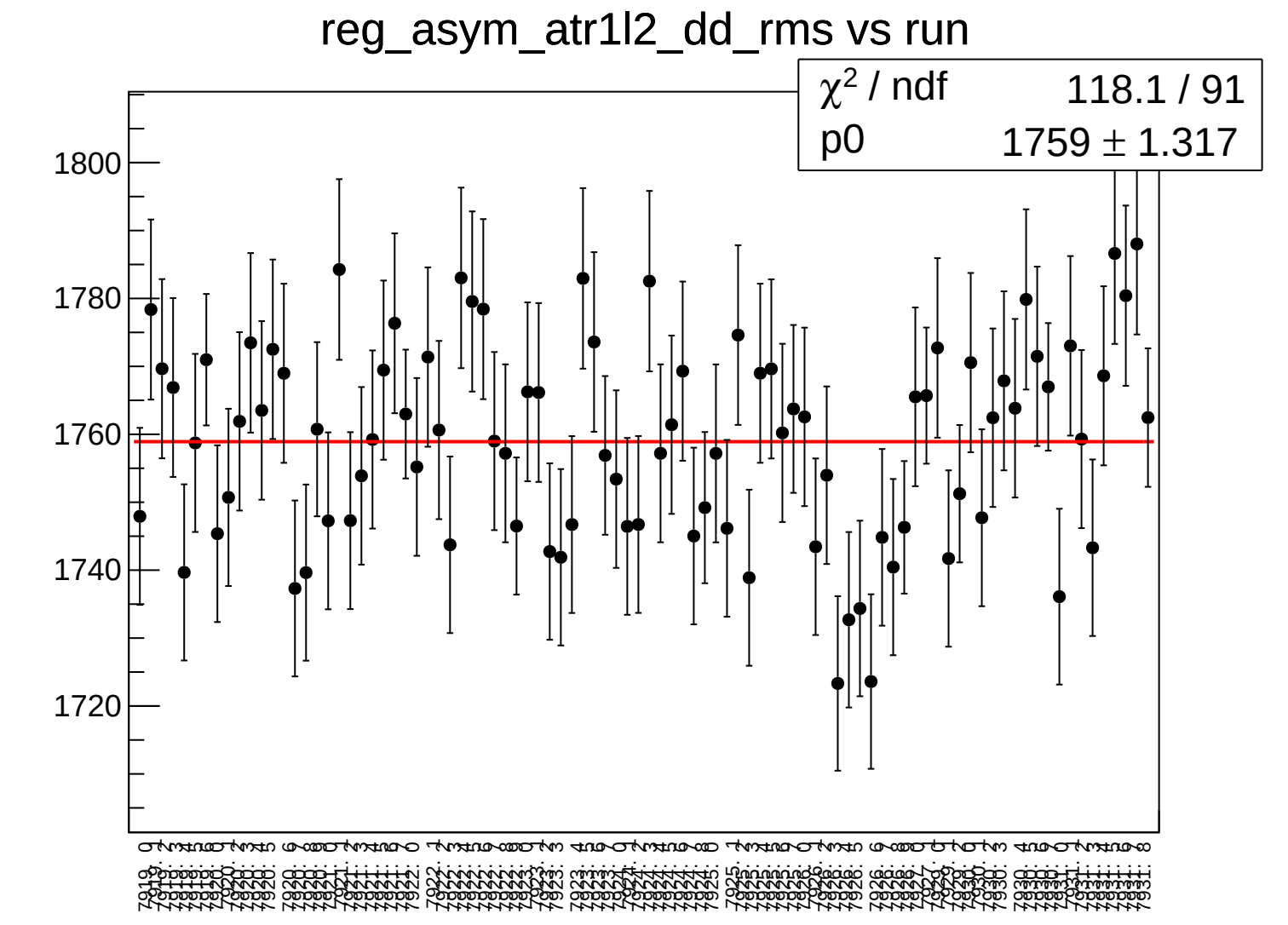

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.573e+04 / 91
p0 194 ± 0.1463
300
280
260
240
220
200
180
160
140

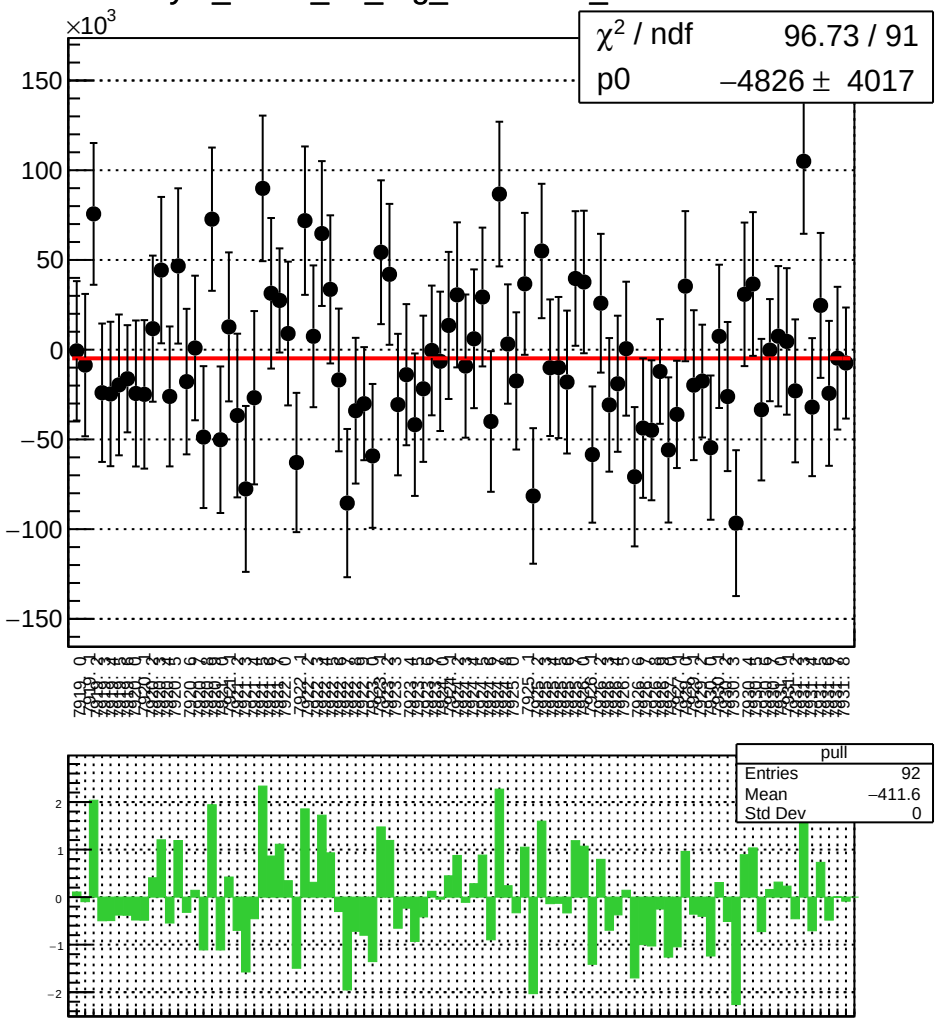

asym_atr1l2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.07 / 91
p0 3.353e−13 ± 4.902e−13
pull
Entries 92
Mean −1287
Std Dev 0
pull1D
Entries 92
Mean 0.0002248
Std Dev 1.011

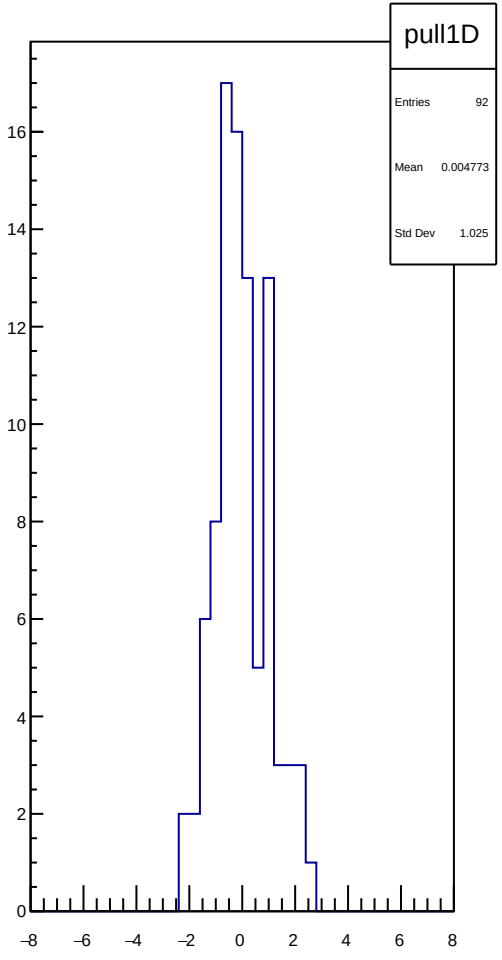

asym_atr1l2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.308e+05 / 91
p0 3.555e−10 ± 3.466e−13
3.5
3
2.5
2
1.5
1
0.5

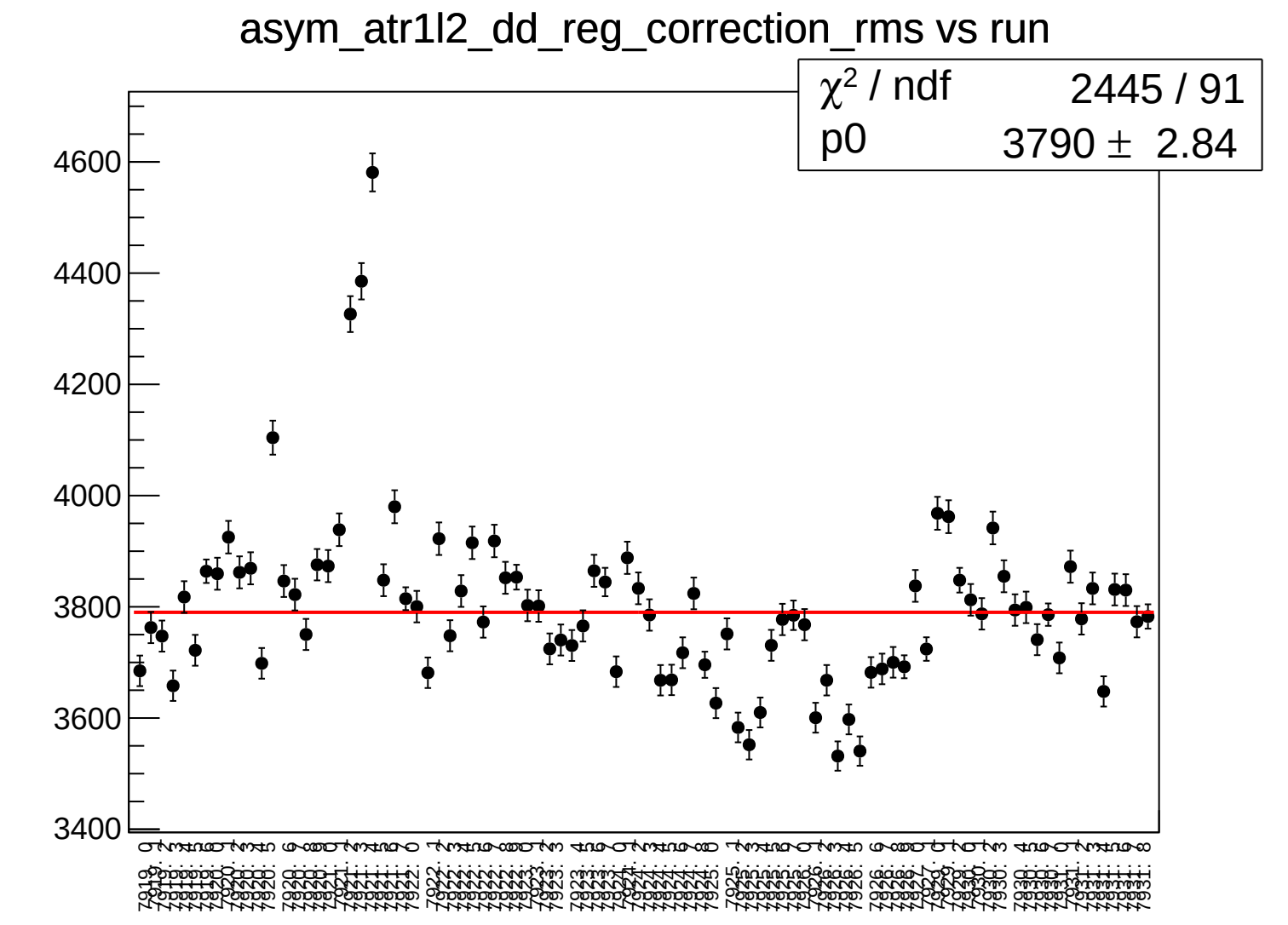

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 72.66 / 91
p0 1146 ± 1863
pull
Entries 92
Mean −701.3
Std Dev 0

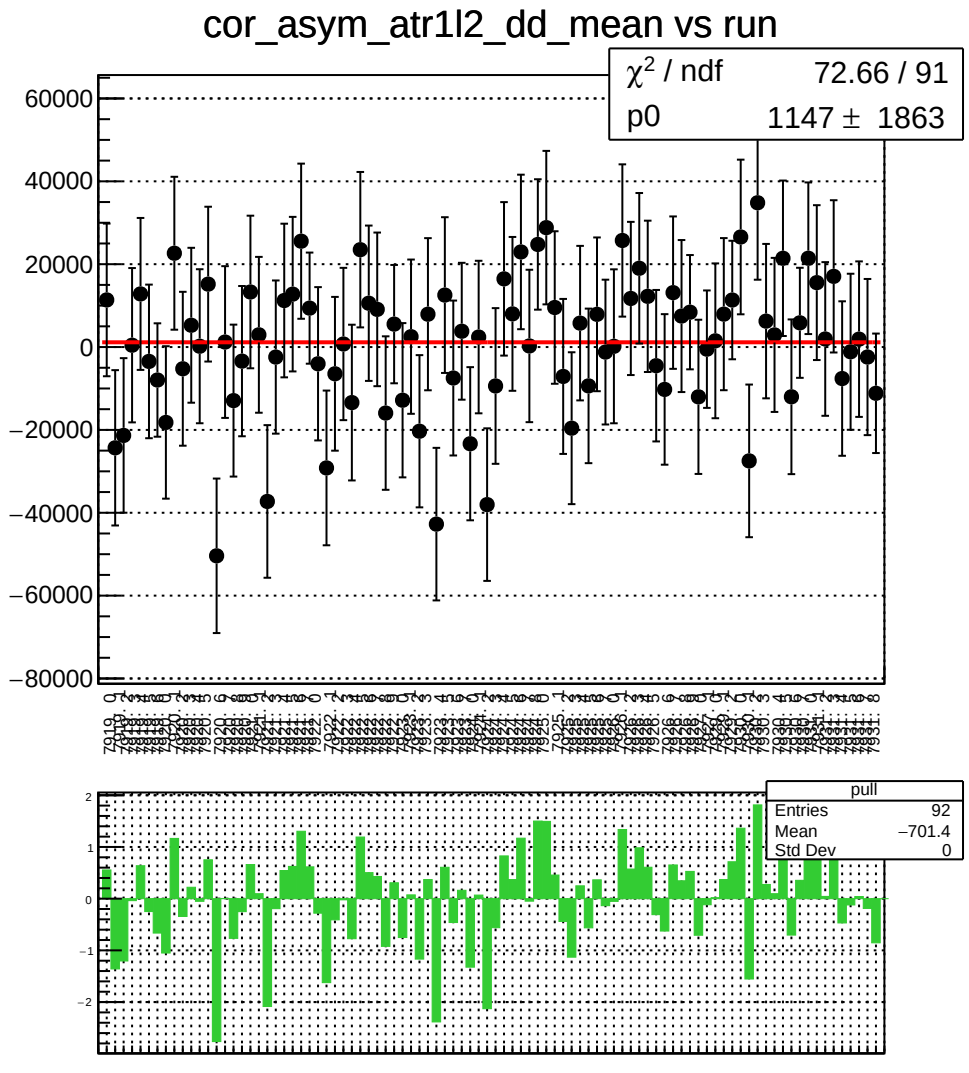

pull1D
Entries 92
Mean −0.006596
Std Dev 0.8887

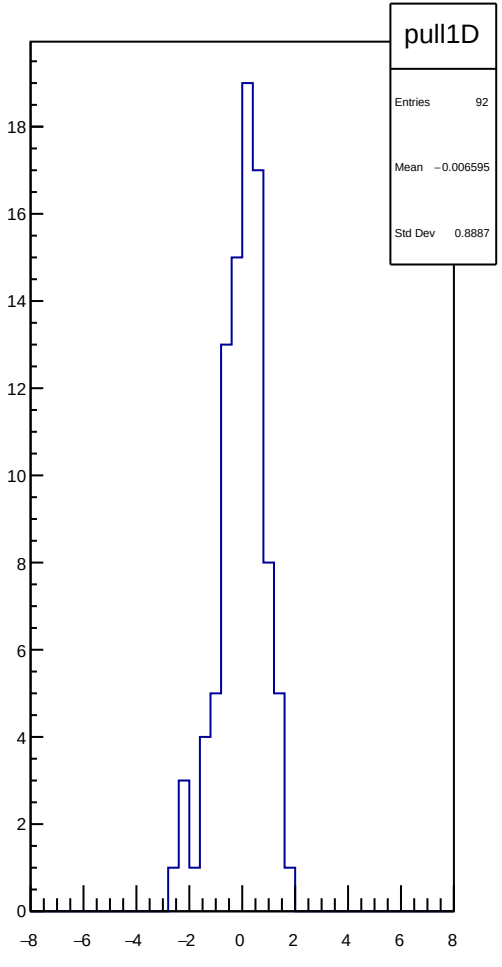

reg_asym_atr1l2_dd_rms vs run
χ² / ndf 118.1 / 91
p0 1759 ± 1.317
1800
1780
1760
1740
1720

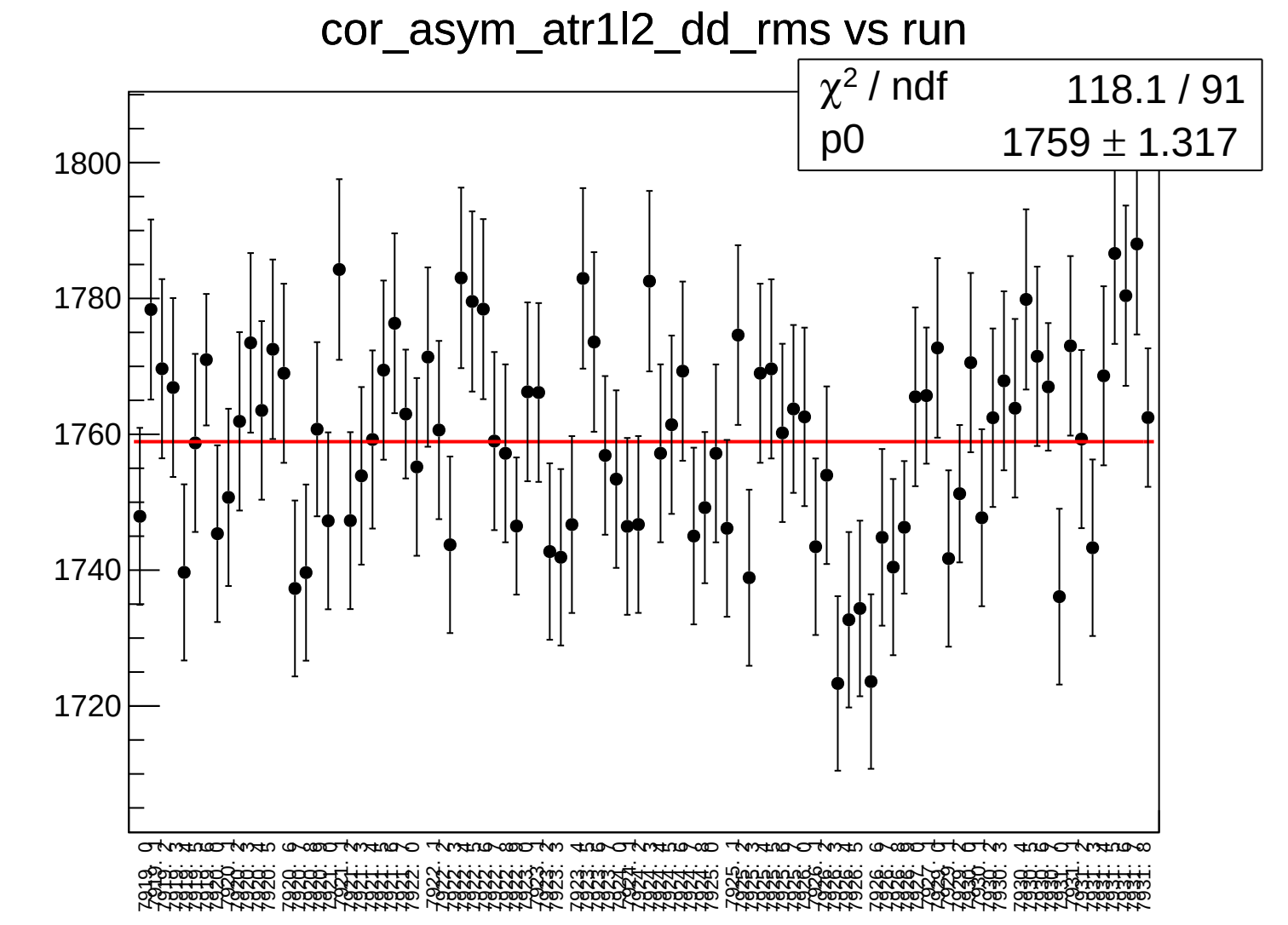

asym_atr1l2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 96.73 / 91
p0 −4826 ± 4017
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean −411.6
Std Dev 0
2
1
0
−1
−2

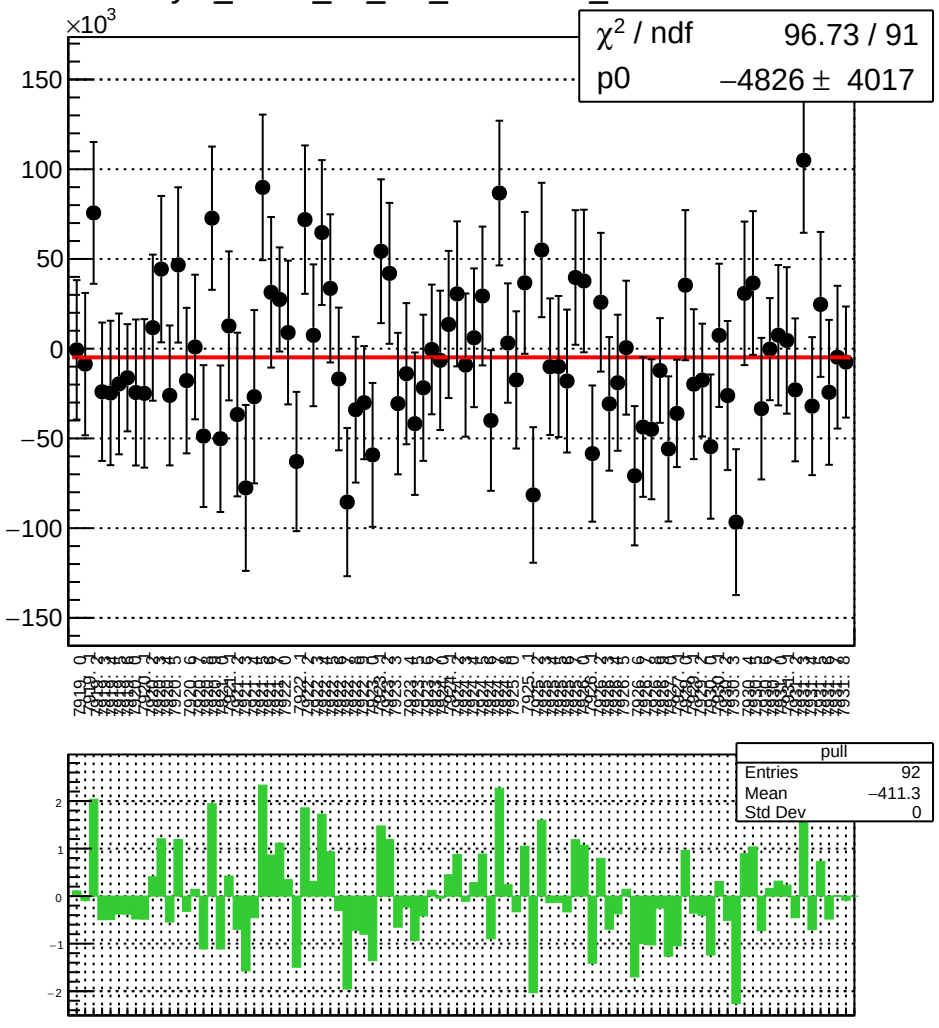

pull1D
Entries 92
Mean 0.004773
Std Dev 1.025
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

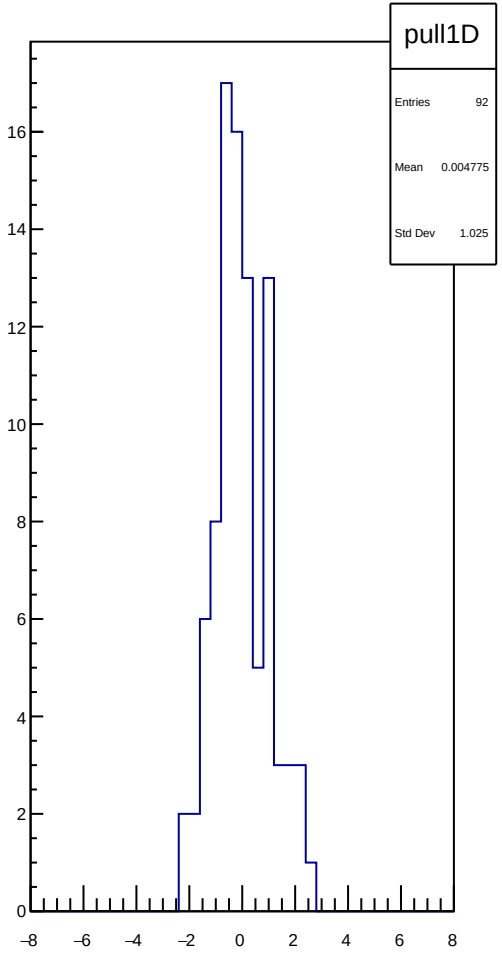

asym_atr1l2_dd_reg_correction_rms vs run
χ² / ndf 2445 / 91
p0 3790 ± 2.84
4600
4400
4200
4000
3800
3600
3400

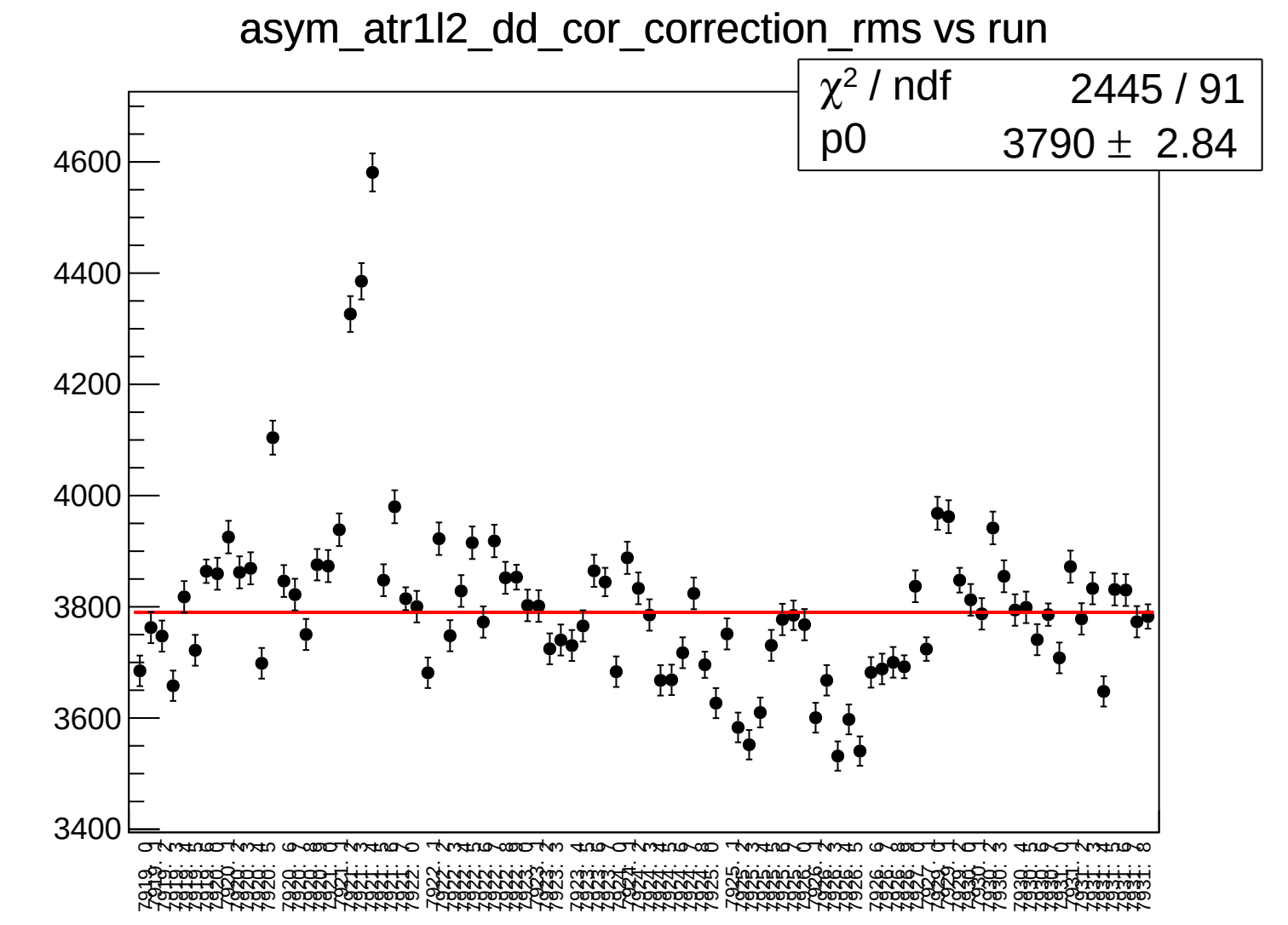

cor_asym_atr1l2_dd_mean vs run
χ² / ndf 72.66 / 91
p0 1147 ± 1863
pull
Entries 92
Mean −701.4
Std Dev 0

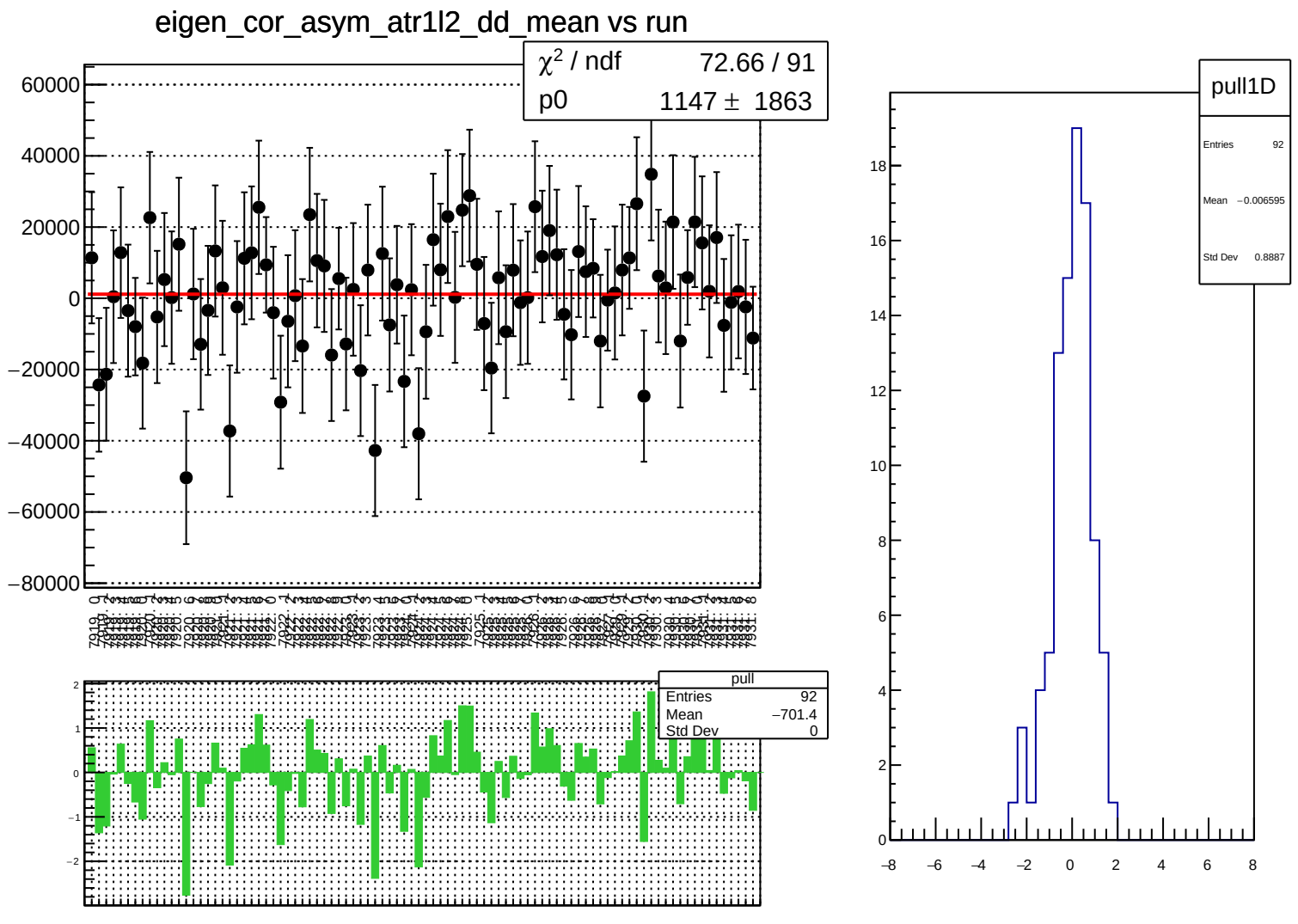

pull1D
Entries 92
Mean −0.006595
Std Dev 0.8887

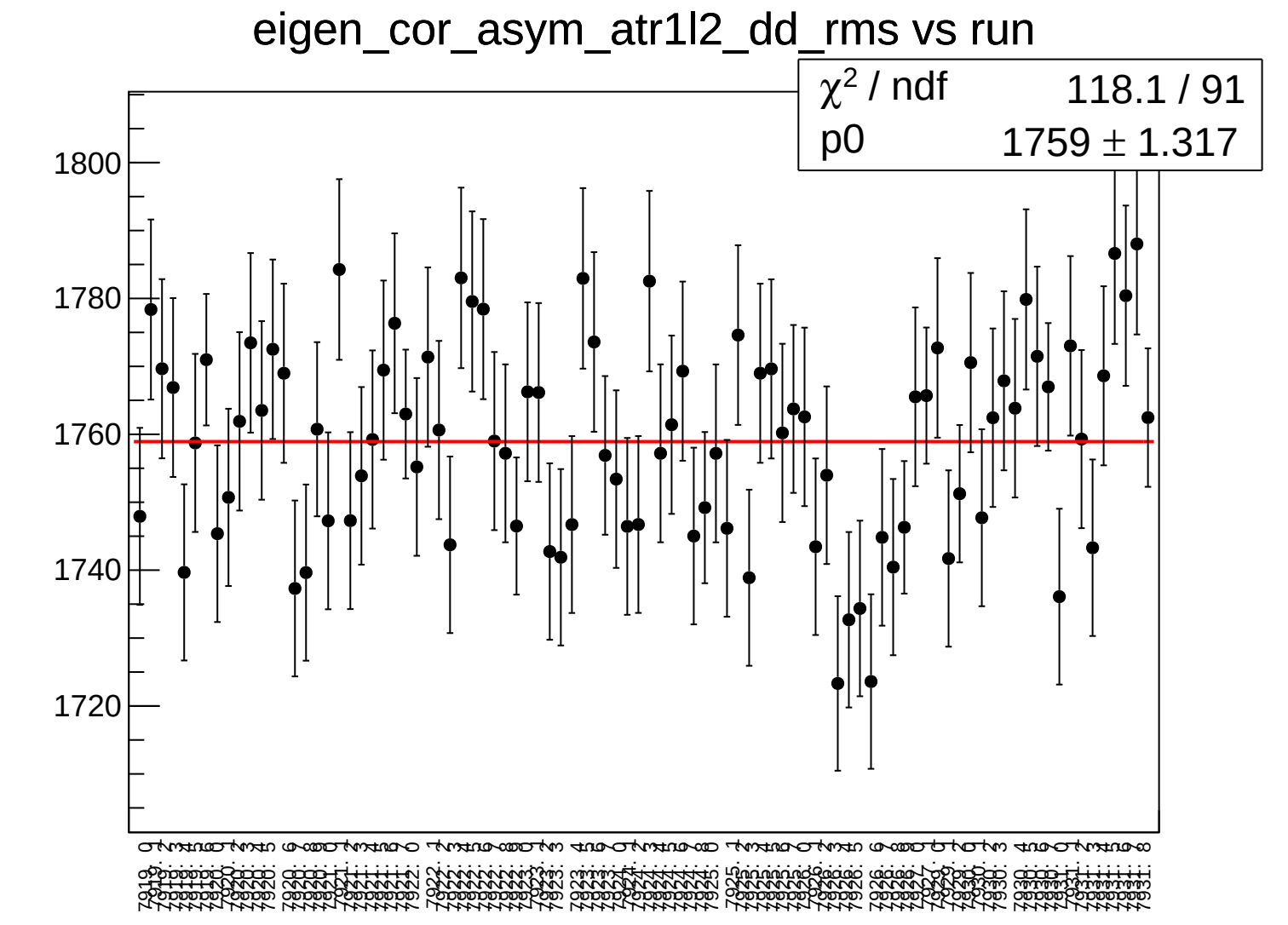

cor_asym_atr1l2_dd_rms vs run
χ^2 / ndf 118.1 / 91
p0 1759 ± 1.317
1800
1780
1760
1740
1720

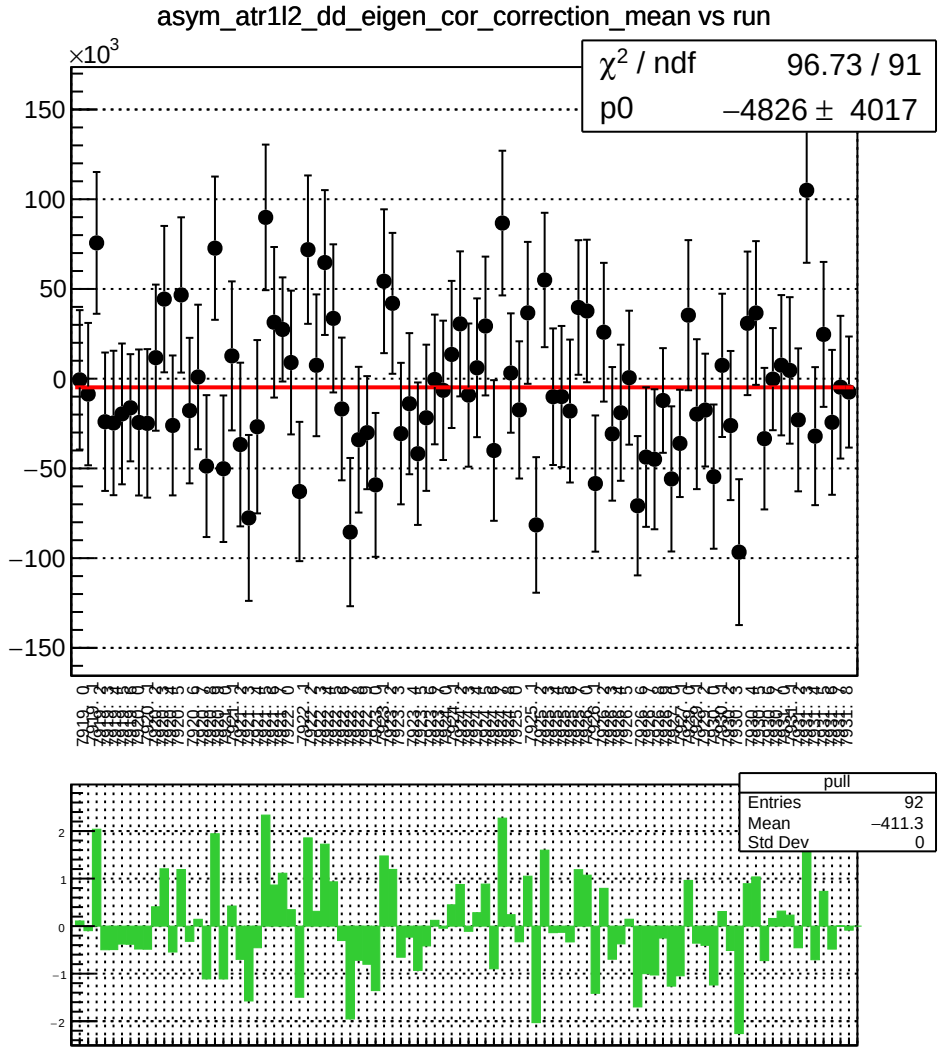

asym_atr1l2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 96.73 / 91
p0 −4826 ± 4017
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean −411.3
Std Dev 0
2
1
0
−1
−2

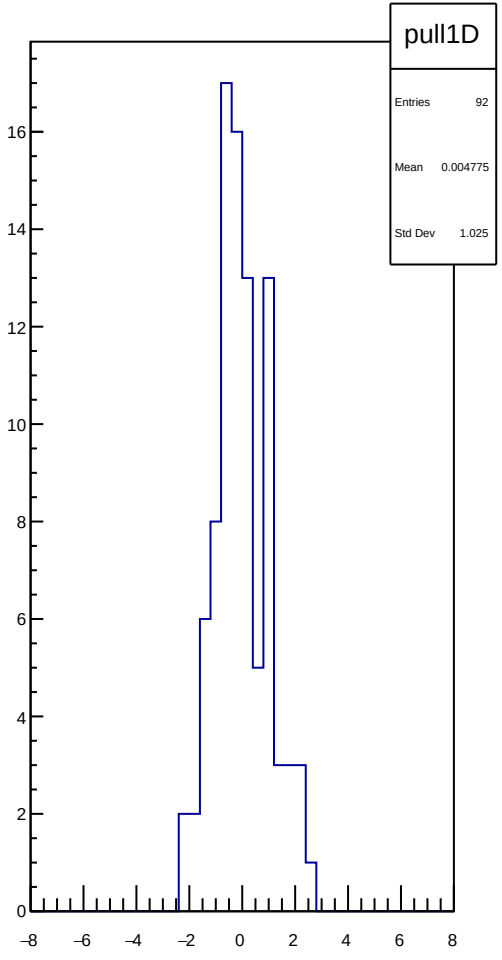

pull1D
Entries 92
Mean 0.004775
Std Dev 1.025
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

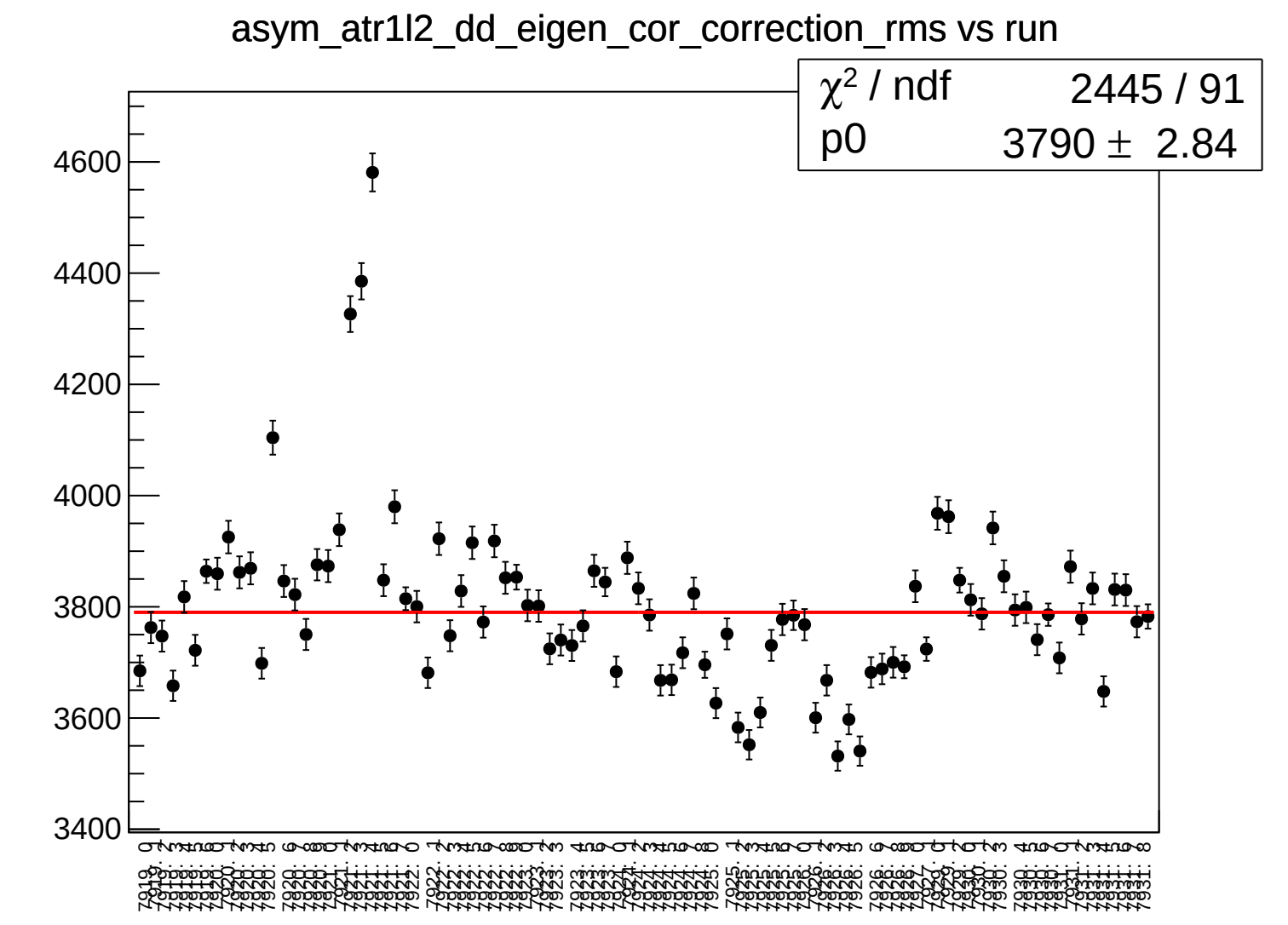

asym_atr1l2_dd_cor_correction_rms vs run
χ² / ndf 2445 / 91
p0 3790 ± 2.84
4600
4400
4200
4000
3800
3600
3400

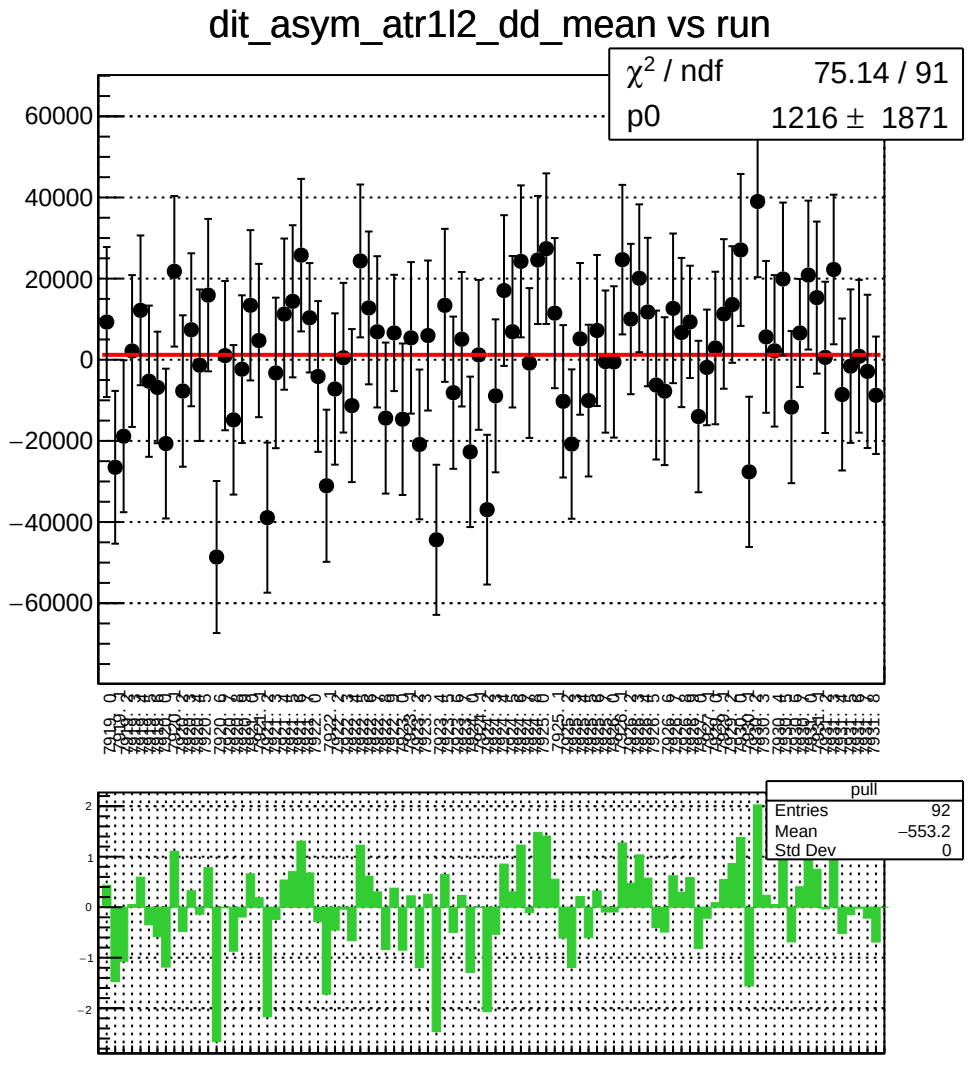

eigen_cor_asym_atr1l2_dd_mean vs run
χ² / ndf 72.66 / 91
p0 1147 ± 1863
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean −701.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.006595
Std Dev 0.8887
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

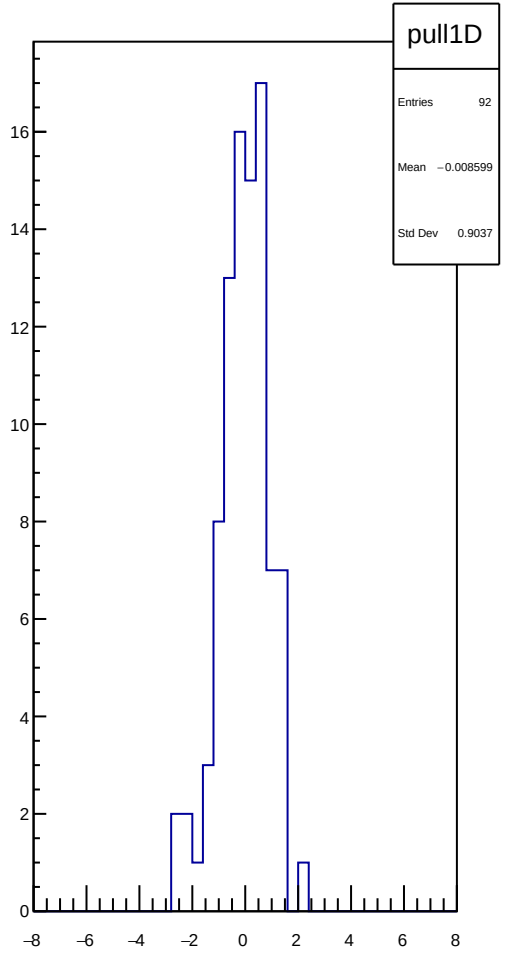

eigen_cor_asym_atr1l2_dd_rms vs run
χ² / ndf 118.1 / 91
p0 1759 ± 1.317
1800
1780
1760
1740
1720

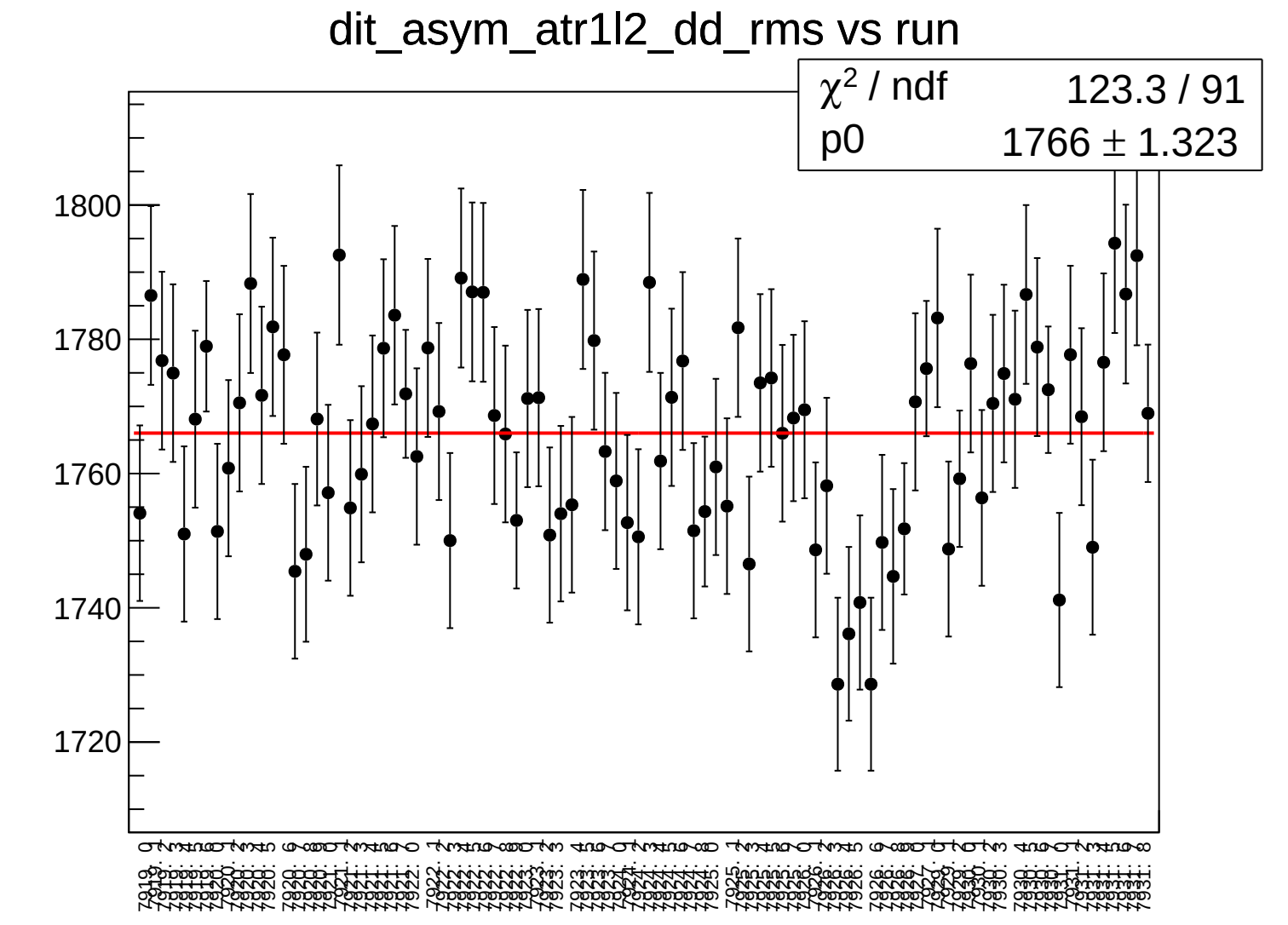

asym_atr1l2_dd_eigen_cor_correction_mean vs run
χ² / ndf 96.73 / 91
p0 −4826 ± 4017
×10³
pull
Entries 92
Mean −411.3
Std Dev 0

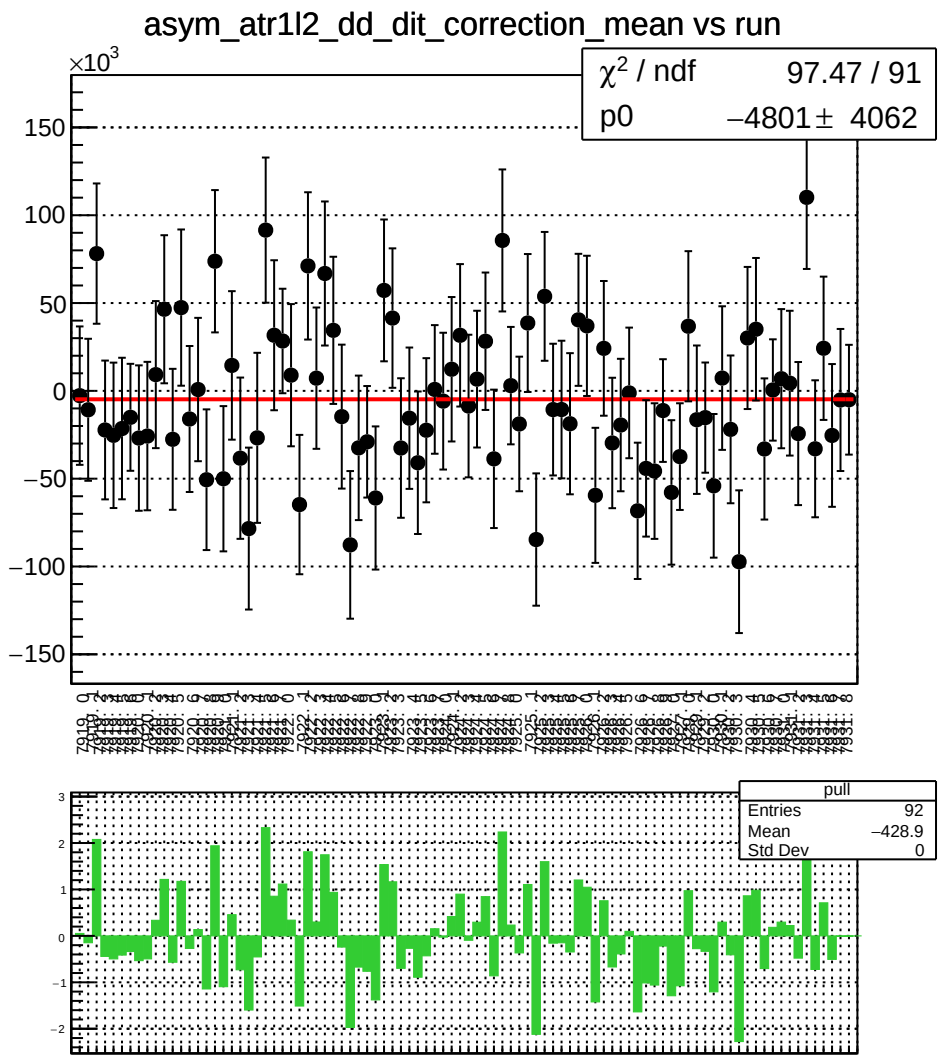

pull1D
Entries 92
Mean 0.004775
Std Dev 1.025

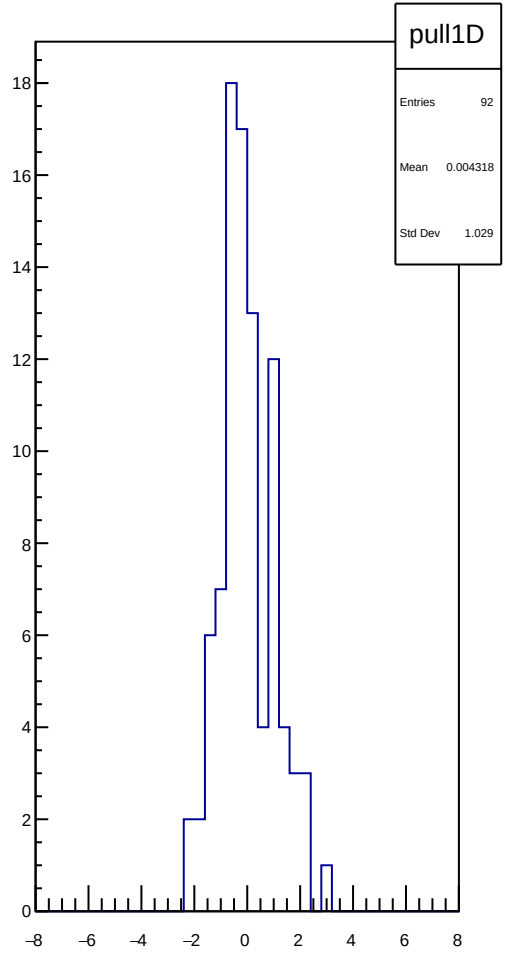

asym_atr1l2_dd_eigen_cor_correction_rms vs run
χ² / ndf 2445 / 91
p0 3790 ± 2.84
4600
4400
4200
4000
3800
3600
3400

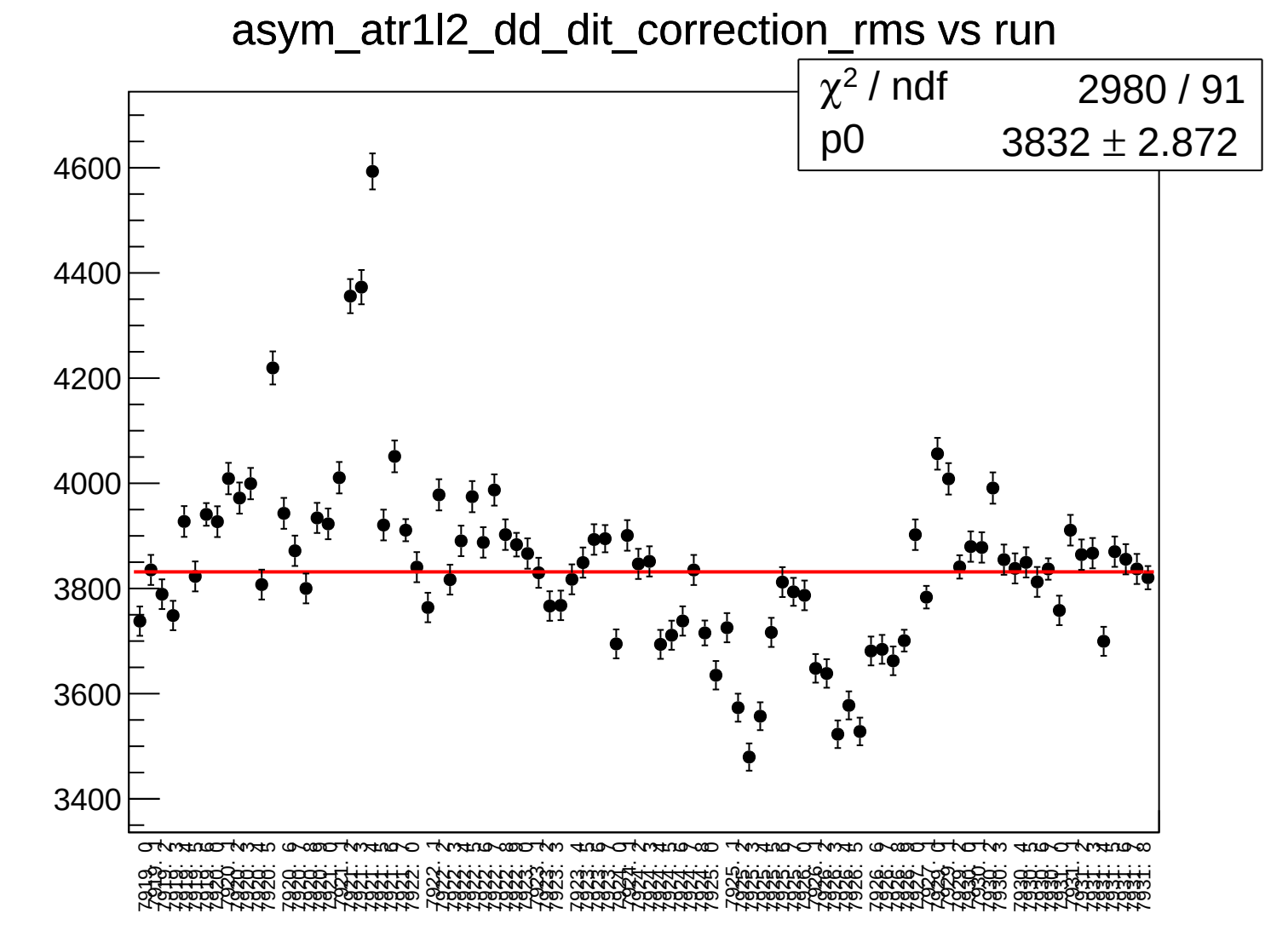

dit_asym_atr1l2_dd_mean vs run
χ² / ndf 75.14 / 91
p0 1216 ± 1871
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −553.2
Std Dev 0
2
1
0
−1
−2

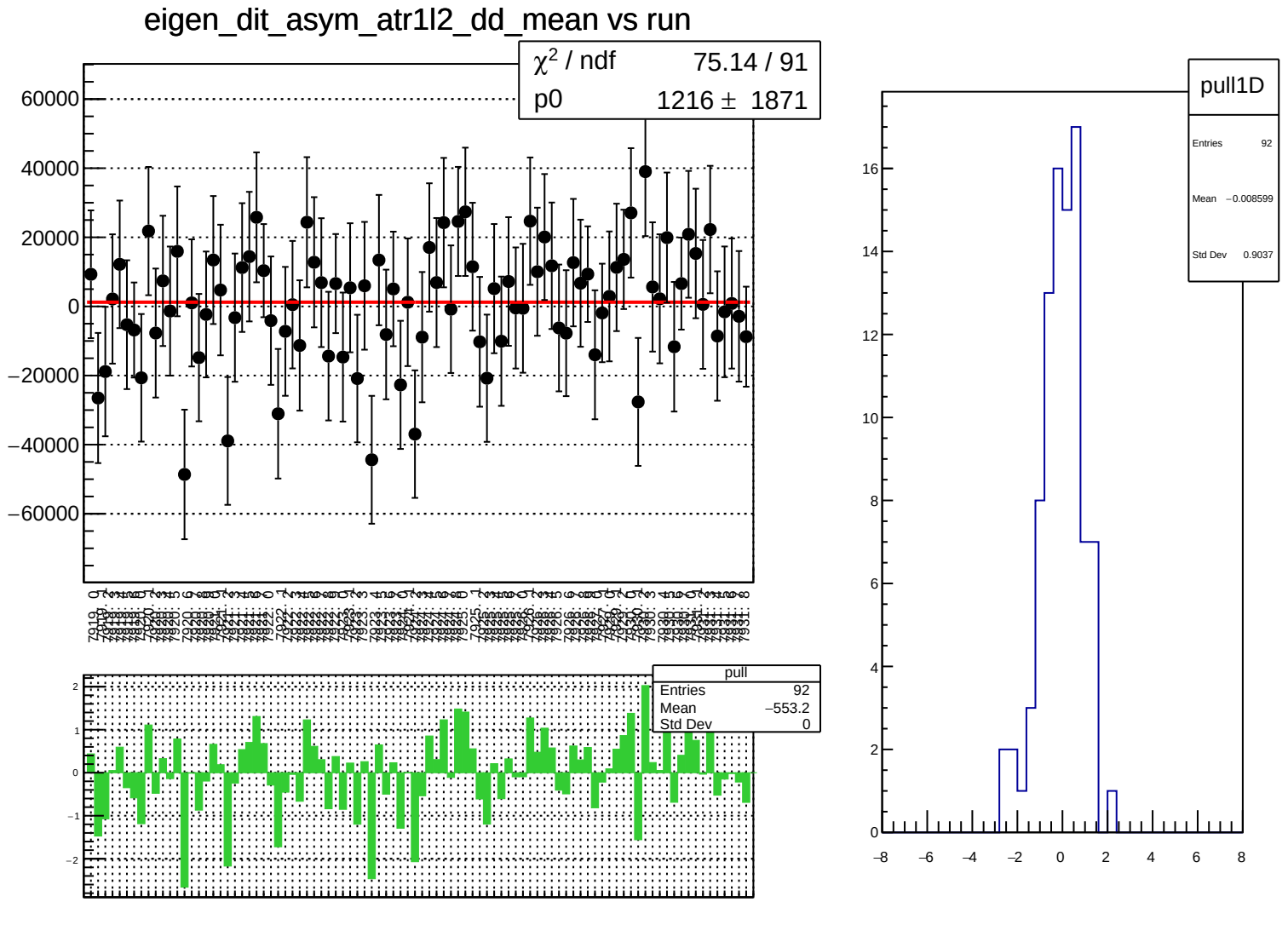

pull1D
Entries 92
Mean −0.008599
Std Dev 0.9037
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

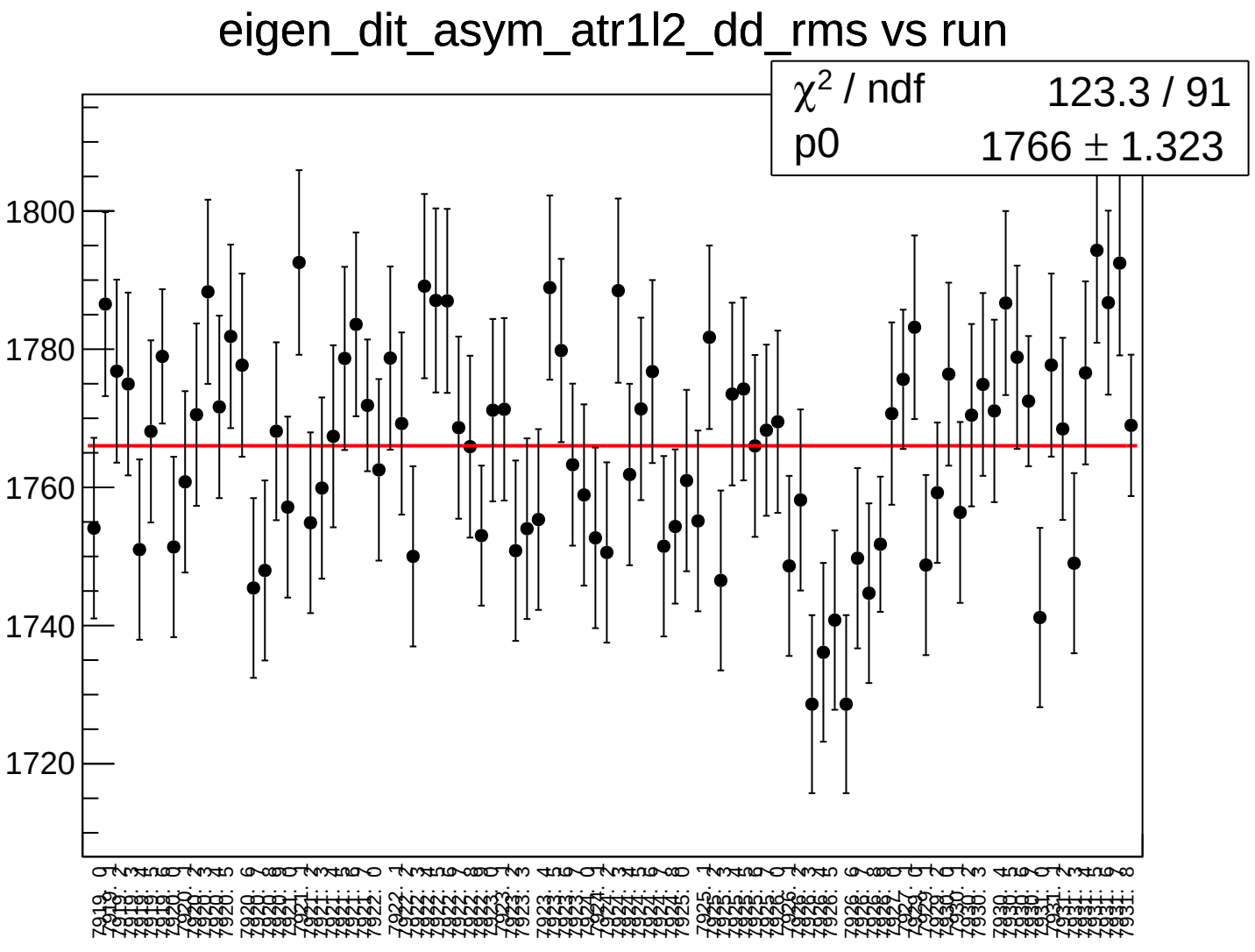

dit_asym_atr1l2_dd_rms vs run
χ² / ndf 123.3 / 91
p0 1766 ± 1.323
1800
1780
1760
1740
1720

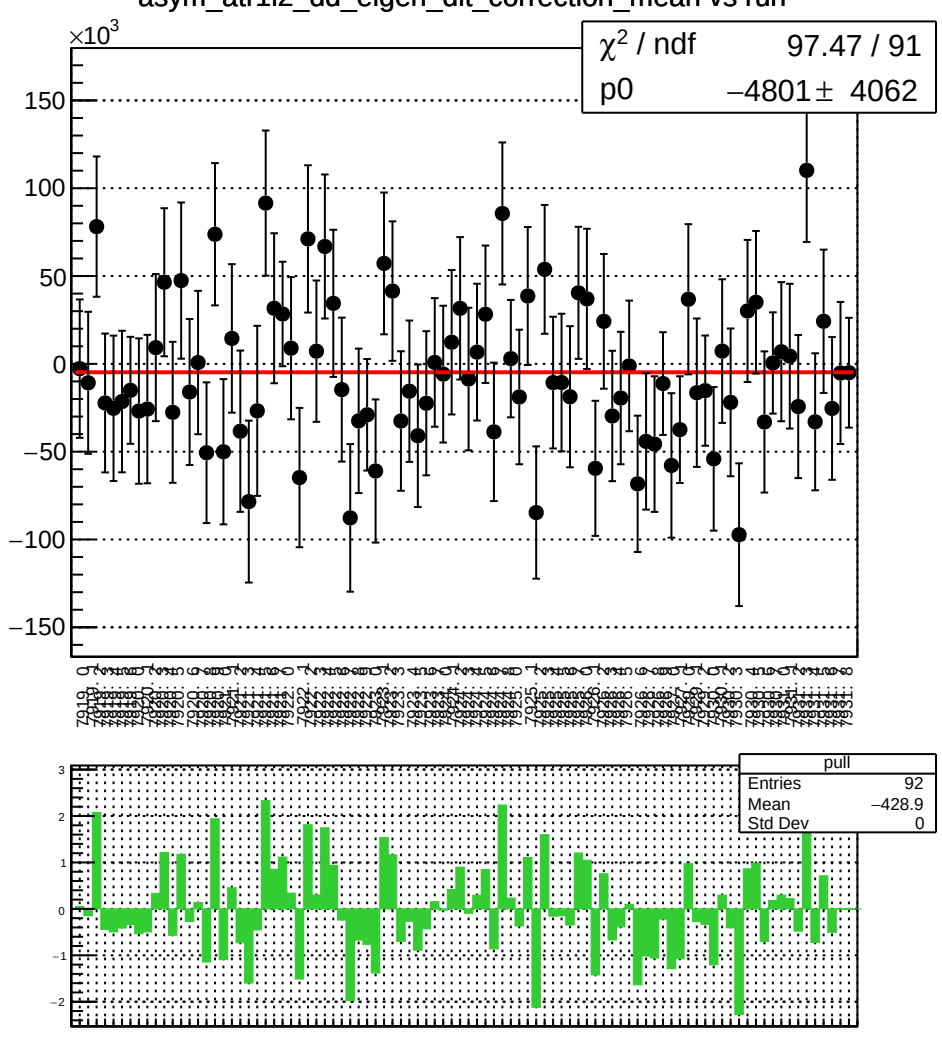

asym_atr1l2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 97.47 / 91
p0 −4801 ± 4062
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean −428.9
Std Dev 0
3
2
1
0
−1
−2

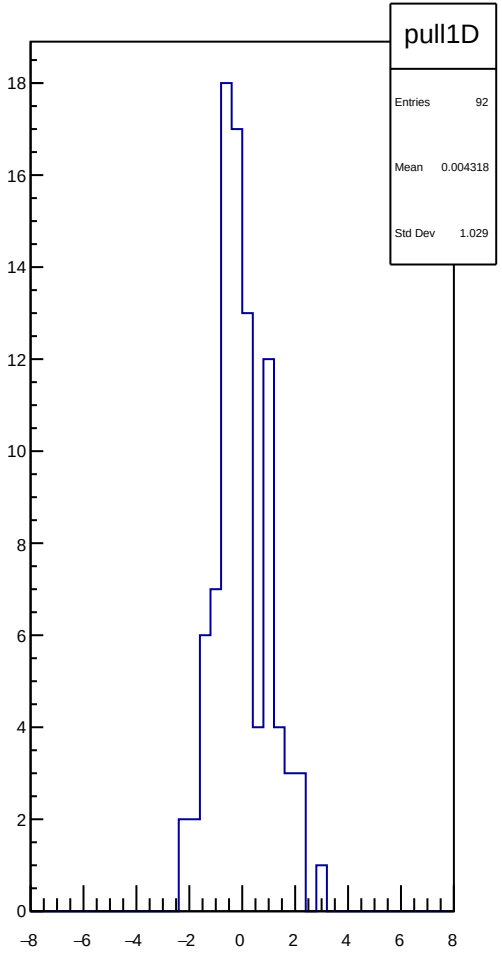

pull1D
Entries 92
Mean 0.004318
Std Dev 1.029
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

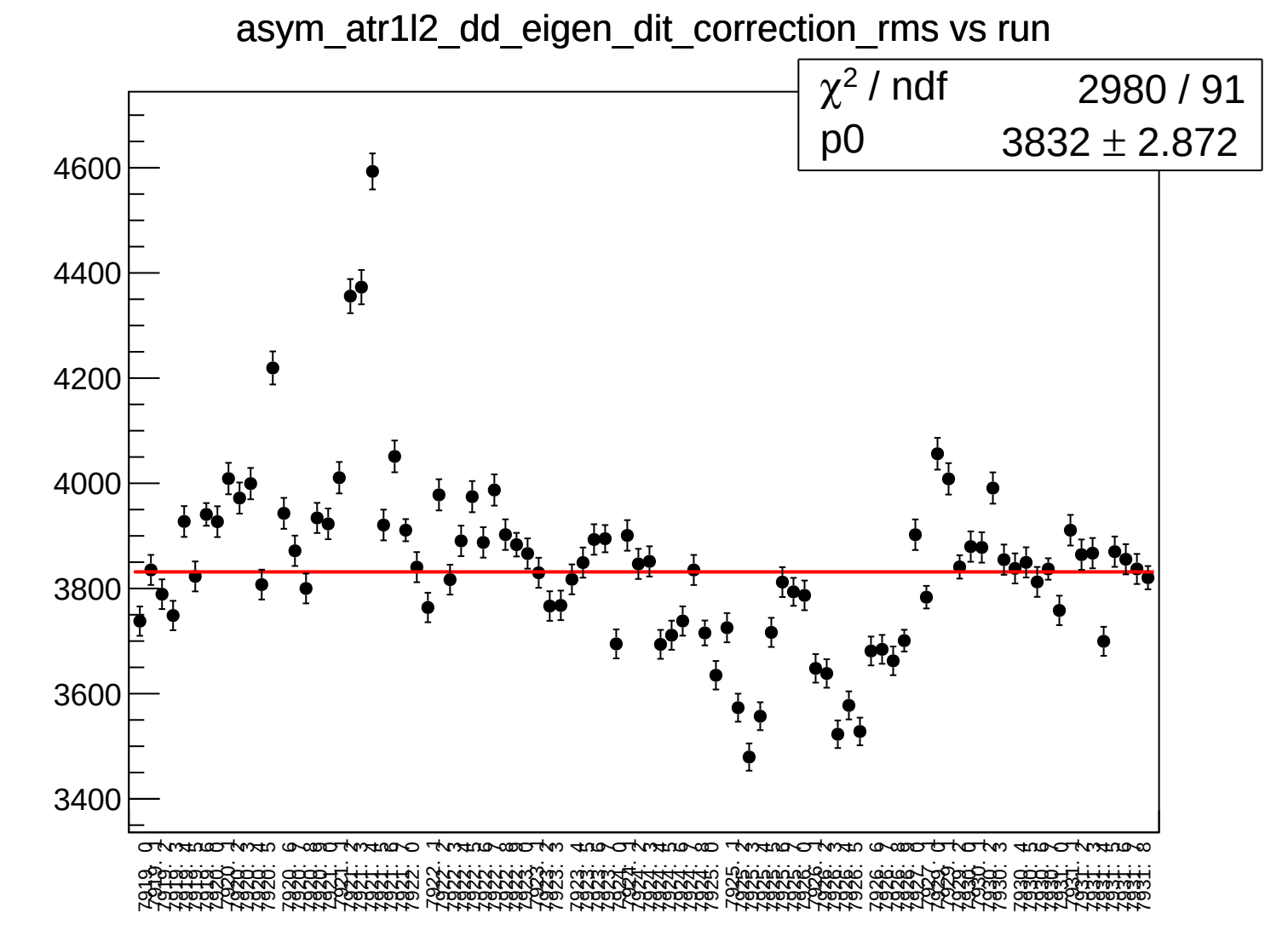

asym_atr1l2_dd_dit_correction_rms vs run
χ² / ndf 2980 / 91
p0 3832 ± 2.872
4600
4400
4200
4000
3800
3600
3400

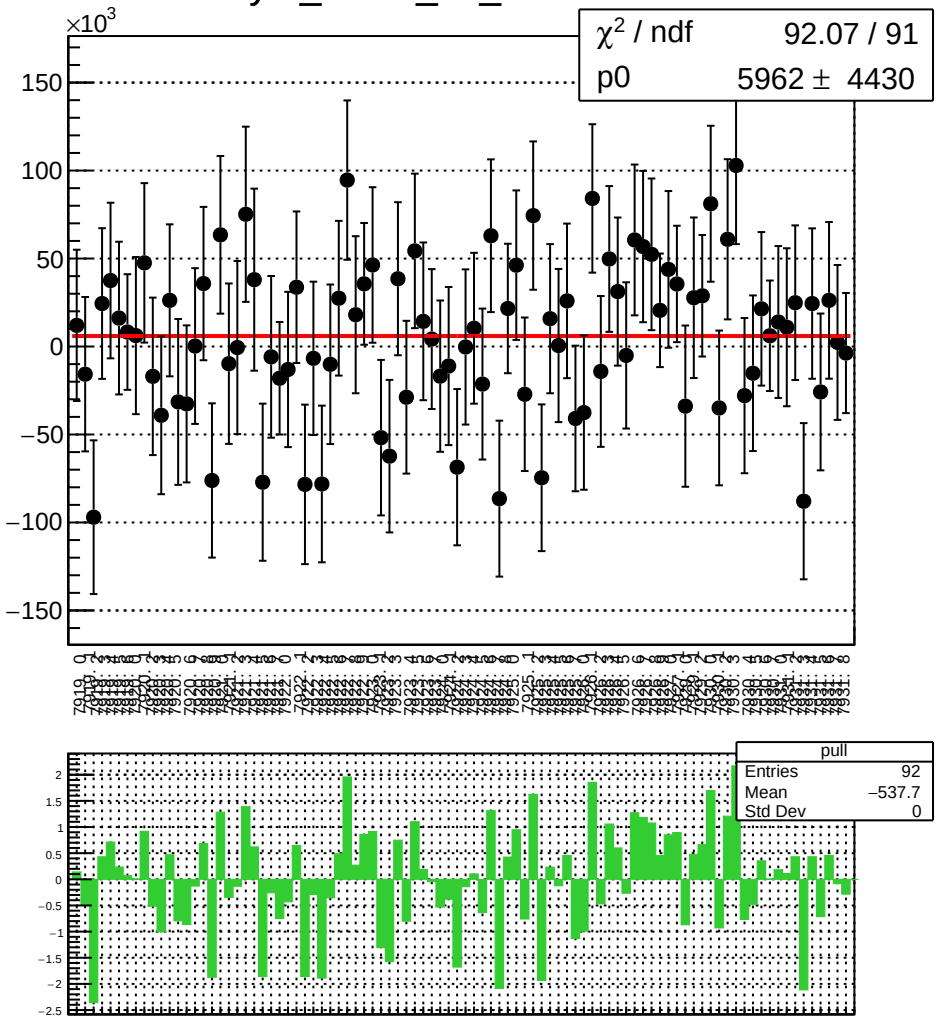

eigen_dit_asym_atr1l2_dd_mean vs run
χ² / ndf 75.14 / 91
p0 1216 ± 1871
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −553.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.008599
Std Dev 0.9037
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

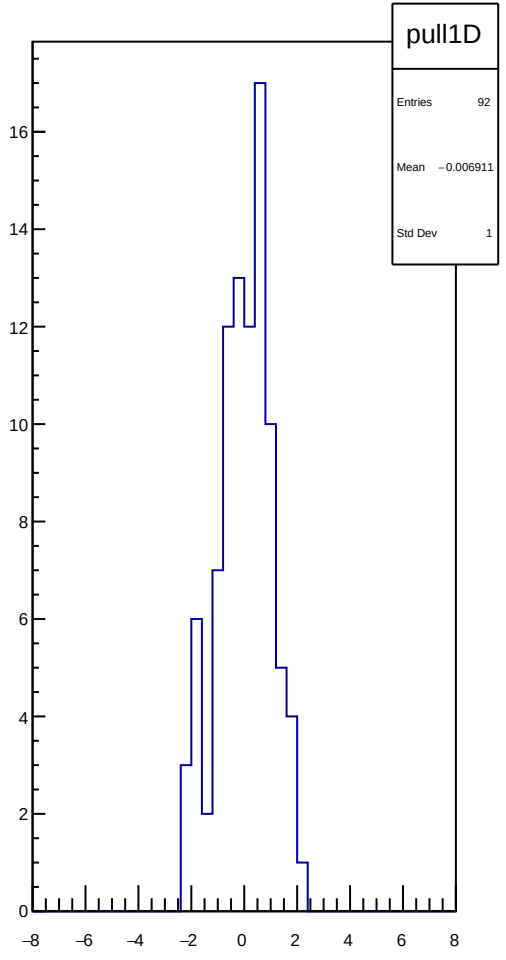

eigen_dit_asym_atr1l2_dd_rms vs run
χ² / ndf 123.3 / 91
p0 1766 ± 1.323
1800
1780
1760
1740
1720

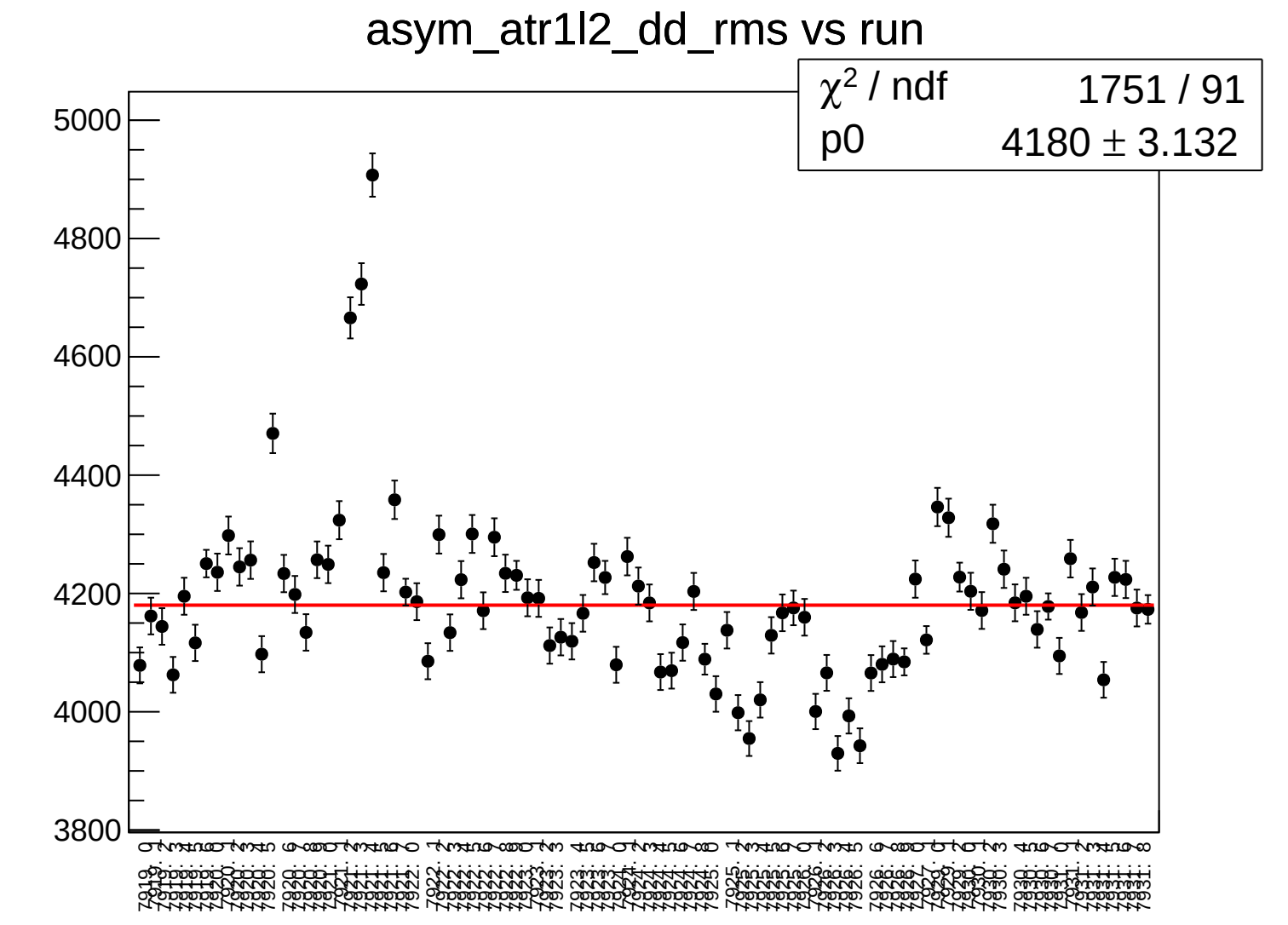

asym_atr1l2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 97.47 / 91
p0 −4801 ± 4062
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean −428.9
Std Dev 0
3
2
1
0
−1
−2

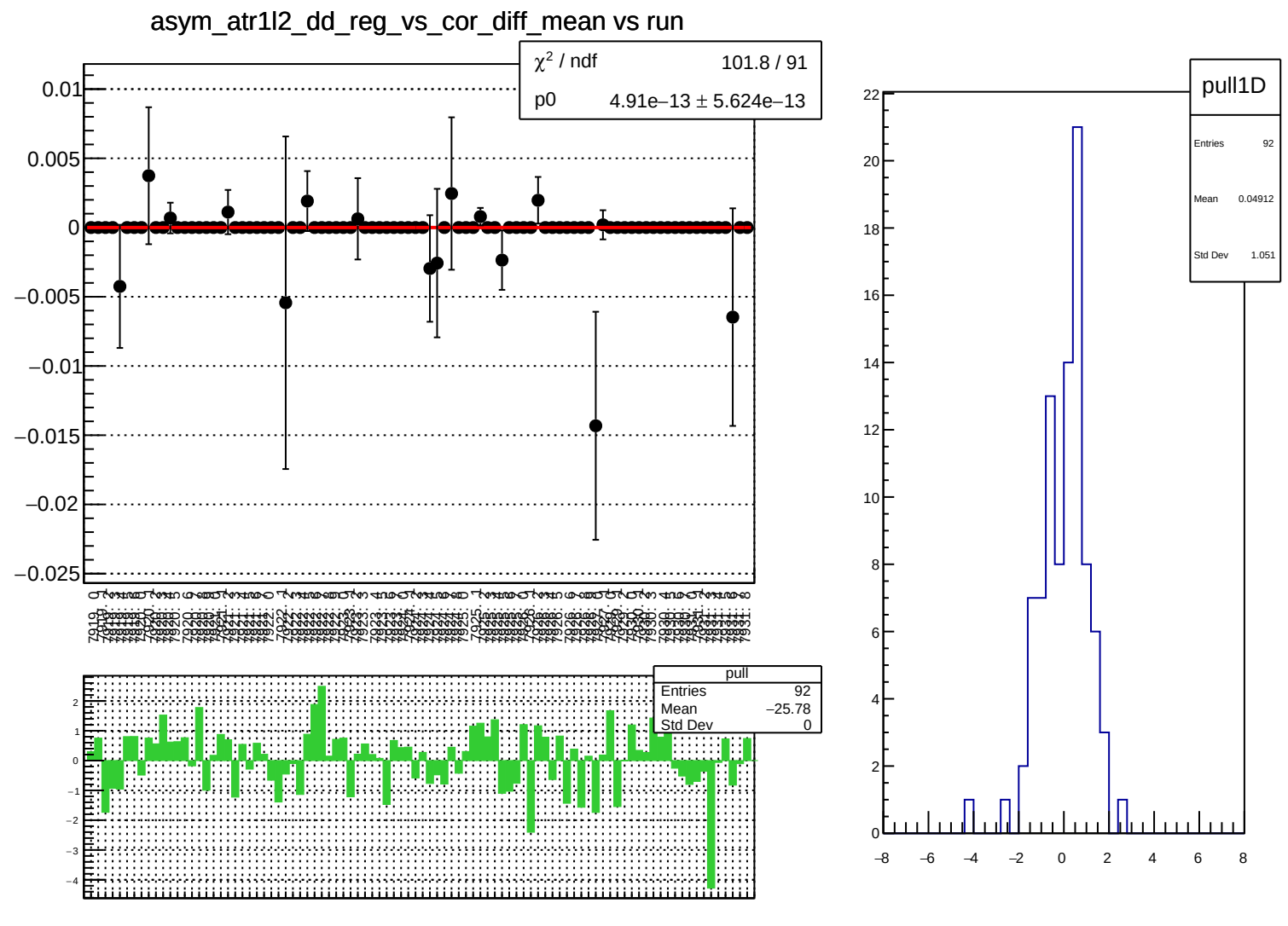

pull1D
Entries 92
Mean 0.004318
Std Dev 1.029
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

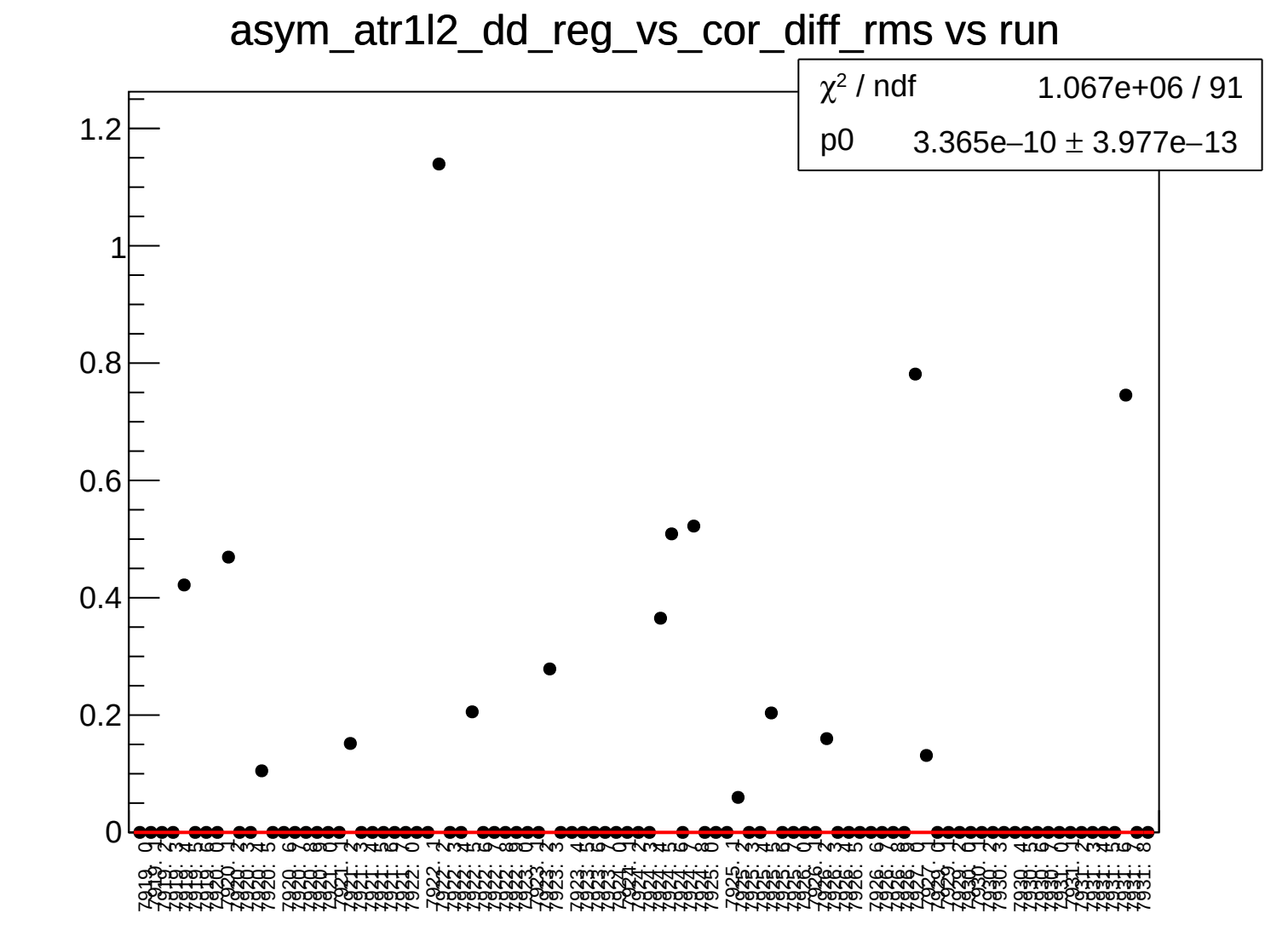

asym_atr1l2_dd_eigen_dit_correction_rms vs run
χ² / ndf 2980 / 91
p0 3832 ± 2.872
4600
4400
4200
4000
3800
3600
3400

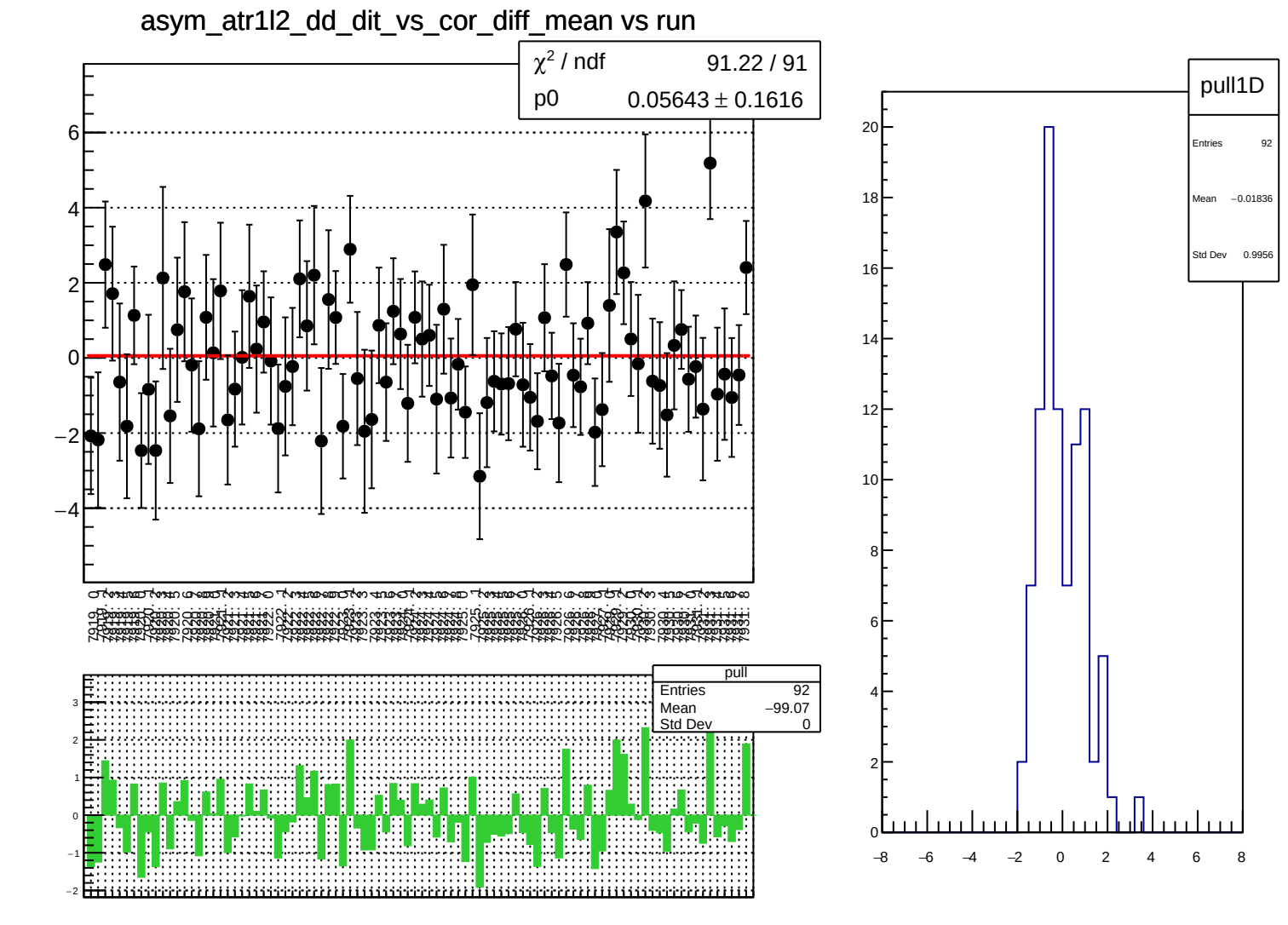

asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 92.07 / 91
p0 5962 ± 4430
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean −537.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

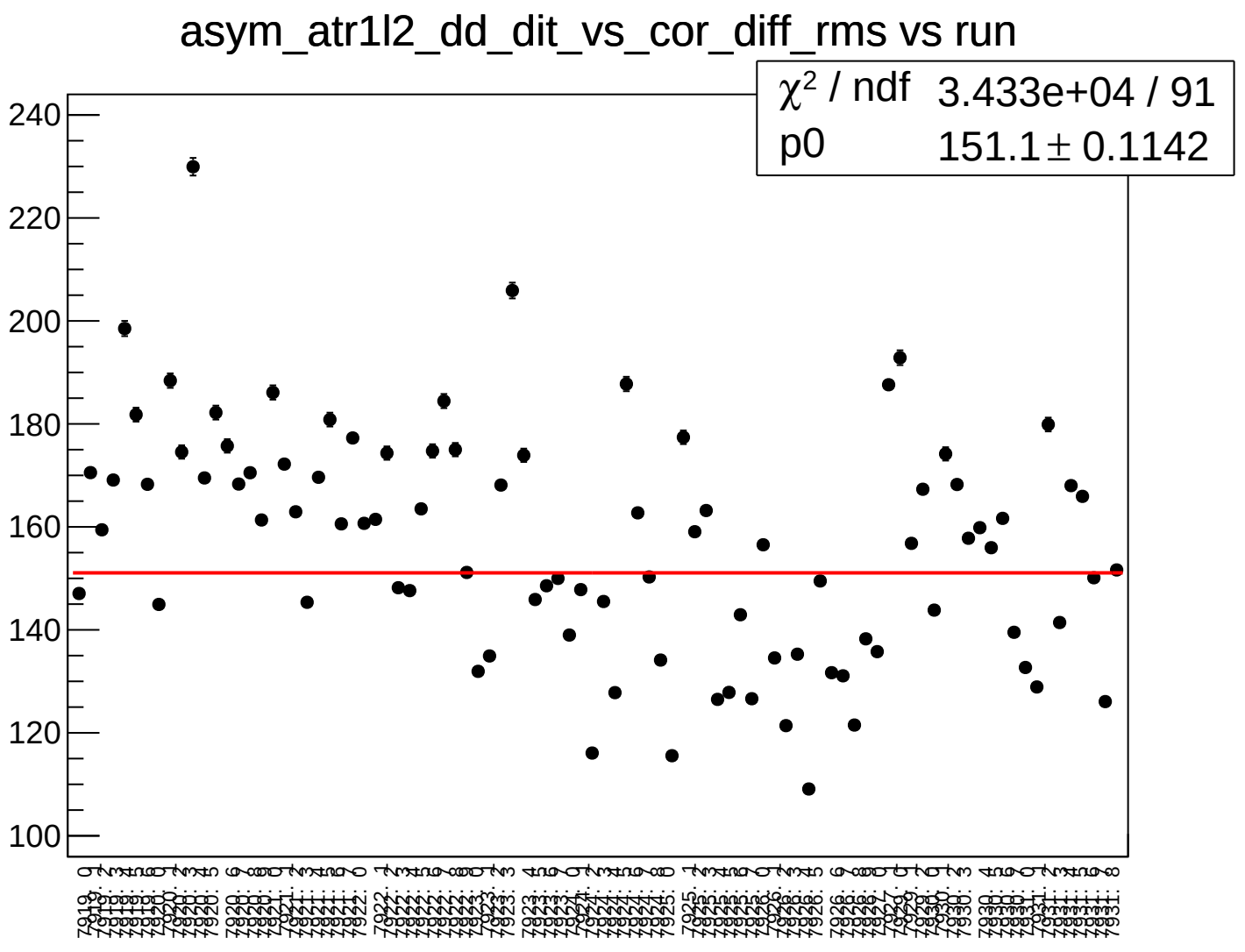

pull1D
Entries 92
Mean −0.006911
Std Dev 1
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

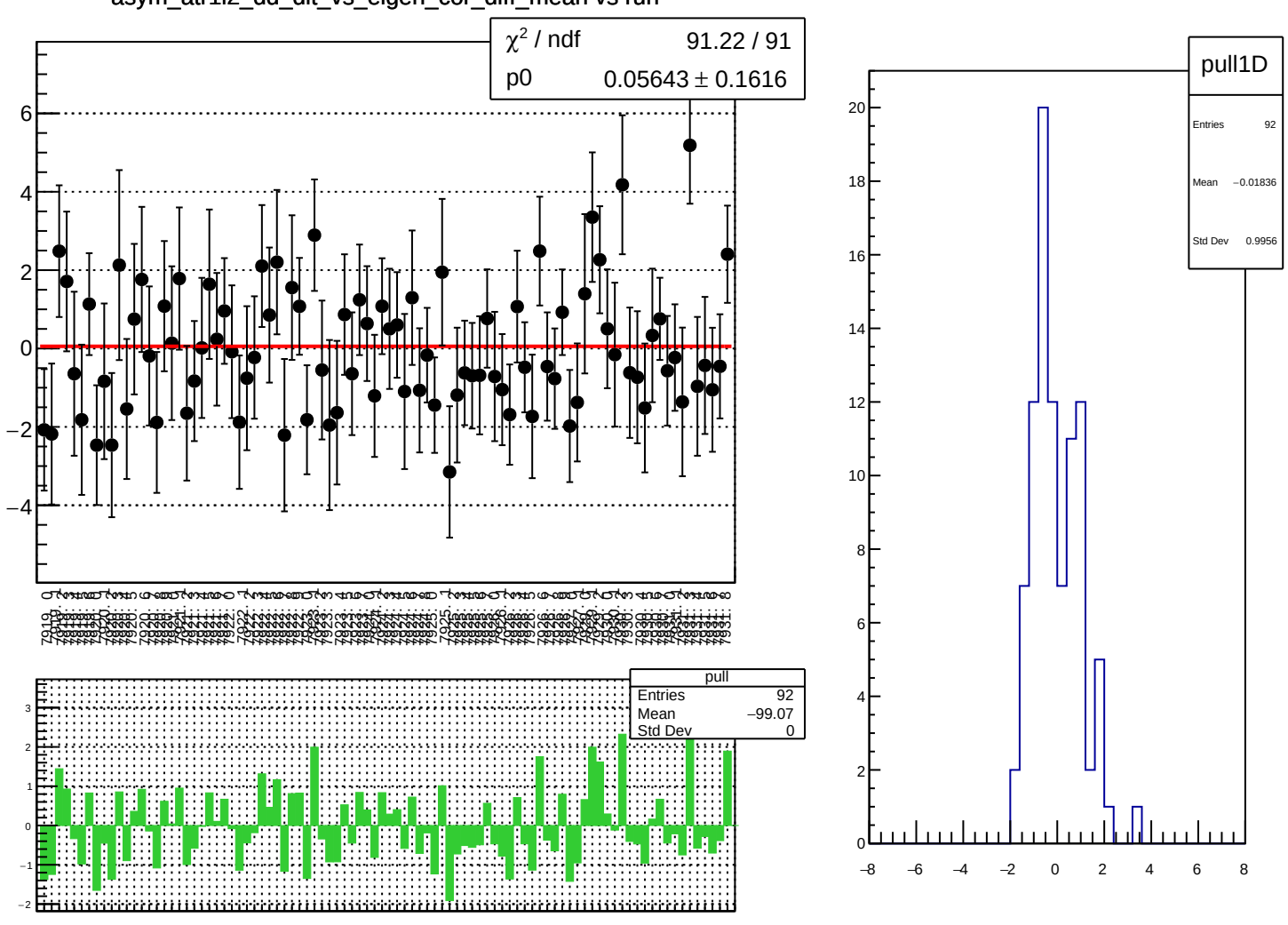

asym_atr1l2_dd_rms vs run
χ^2 / ndf 1751 / 91
p0 4180 ± 3.132
5000
4800
4600
4400
4200
4000
3800

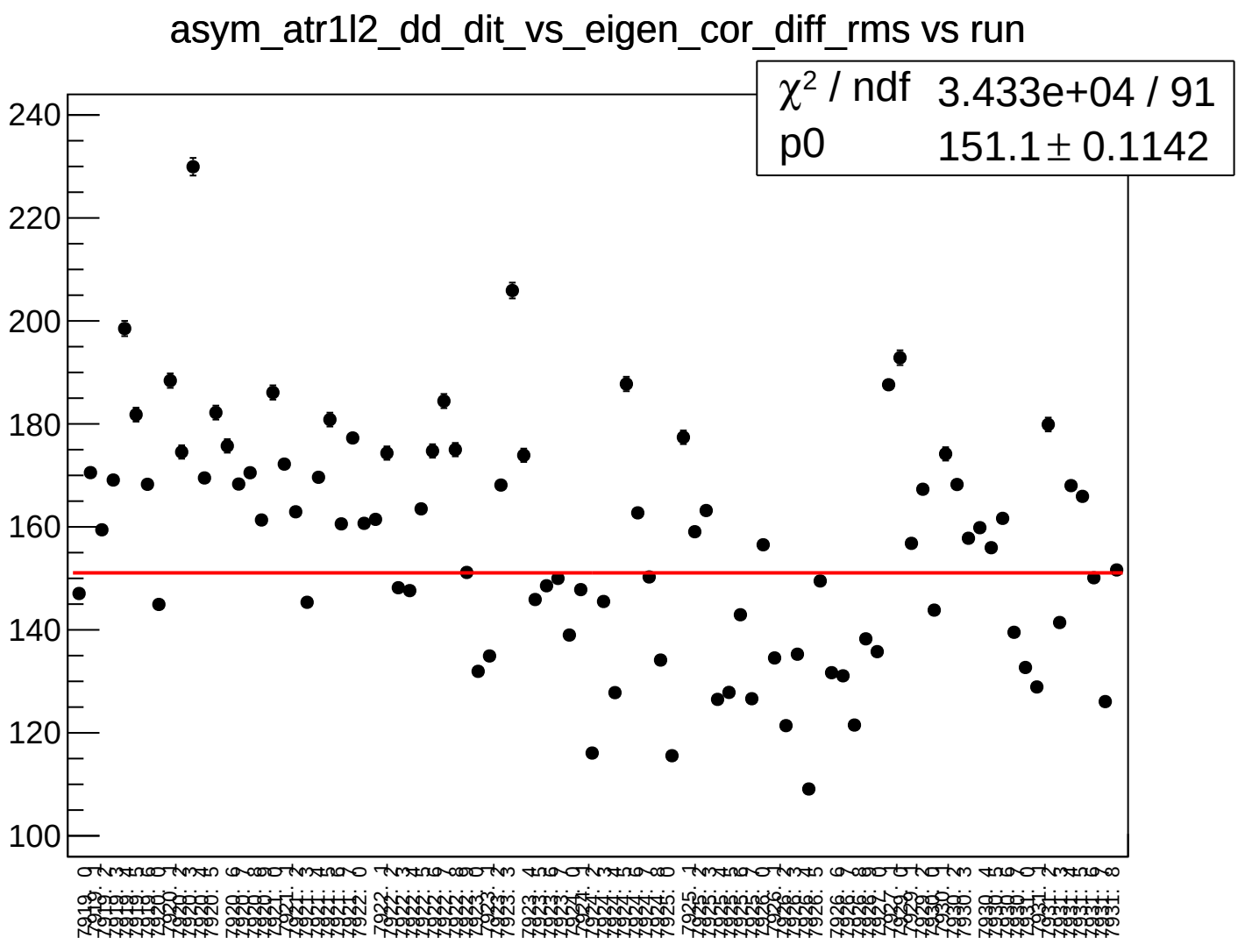

asym_atr1l2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 101.8 / 91
p0 4.91e−13 ± 5.624e−13
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
−0.025
pull
Entries 92
Mean −25.78
Std Dev 0
2
1
0
−1
−2
−3
−4
pull1D
Entries 92
Mean 0.04912
Std Dev 1.051
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

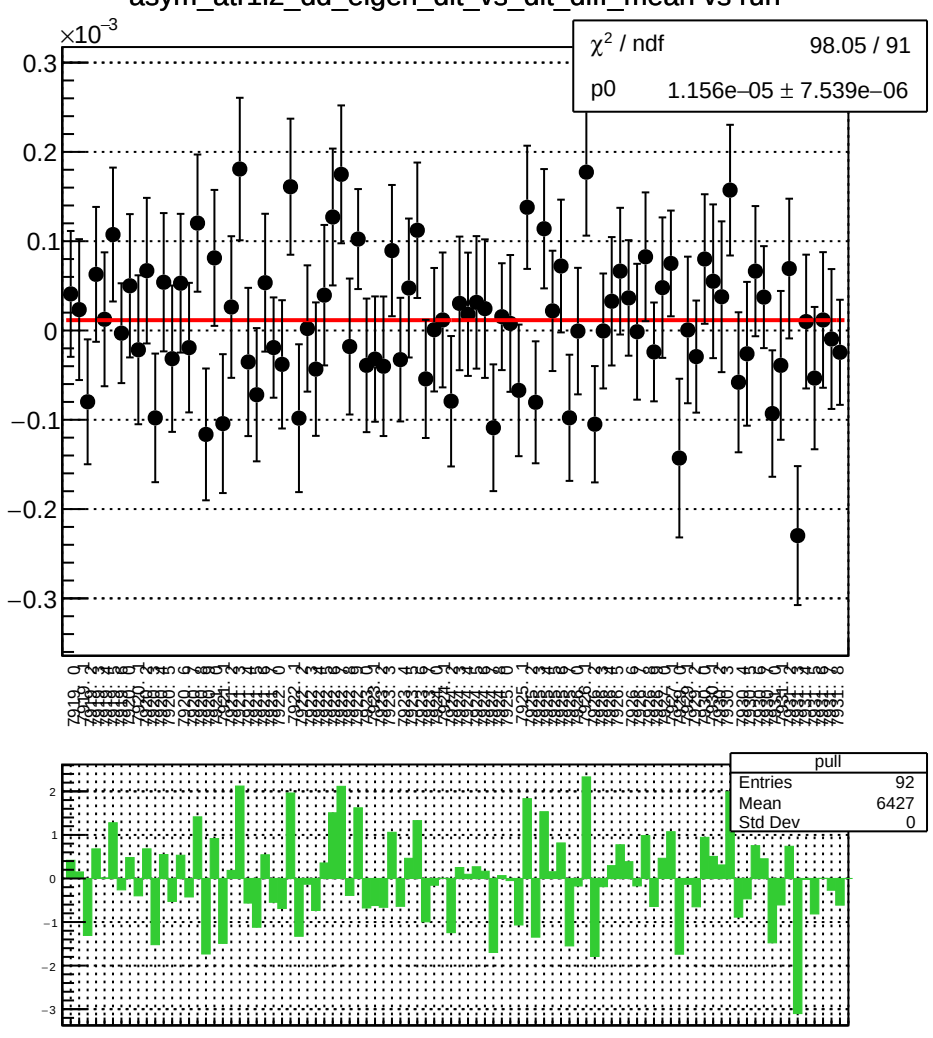

asym_atr1l2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.067e+06 / 91
p0 3.365e−10 ± 3.977e−13
1.2
1
0.8
0.6
0.4
0.2
0

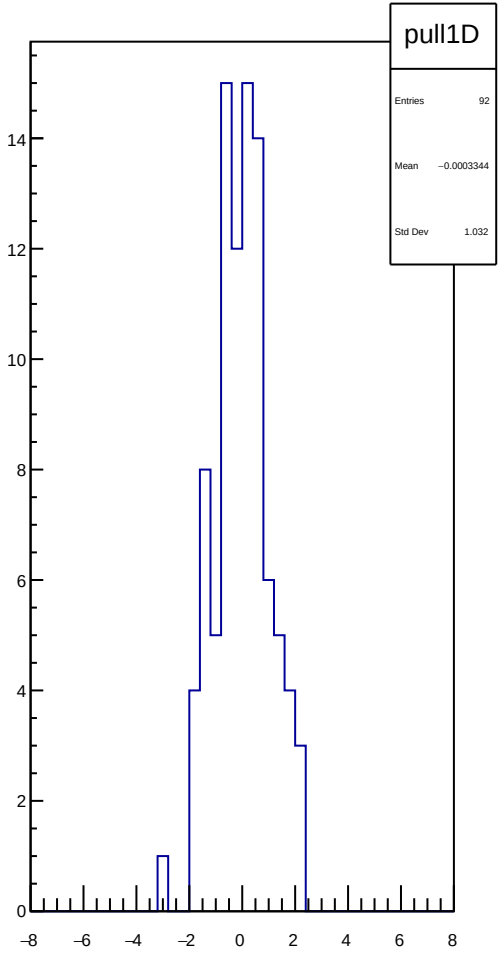

asym_atr1l2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 91.22 / 91
p0 0.05643 ± 0.1616
pull
Entries 92
Mean −99.07
Std Dev 0
pull1D
Entries 92
Mean −0.01836
Std Dev 0.9956

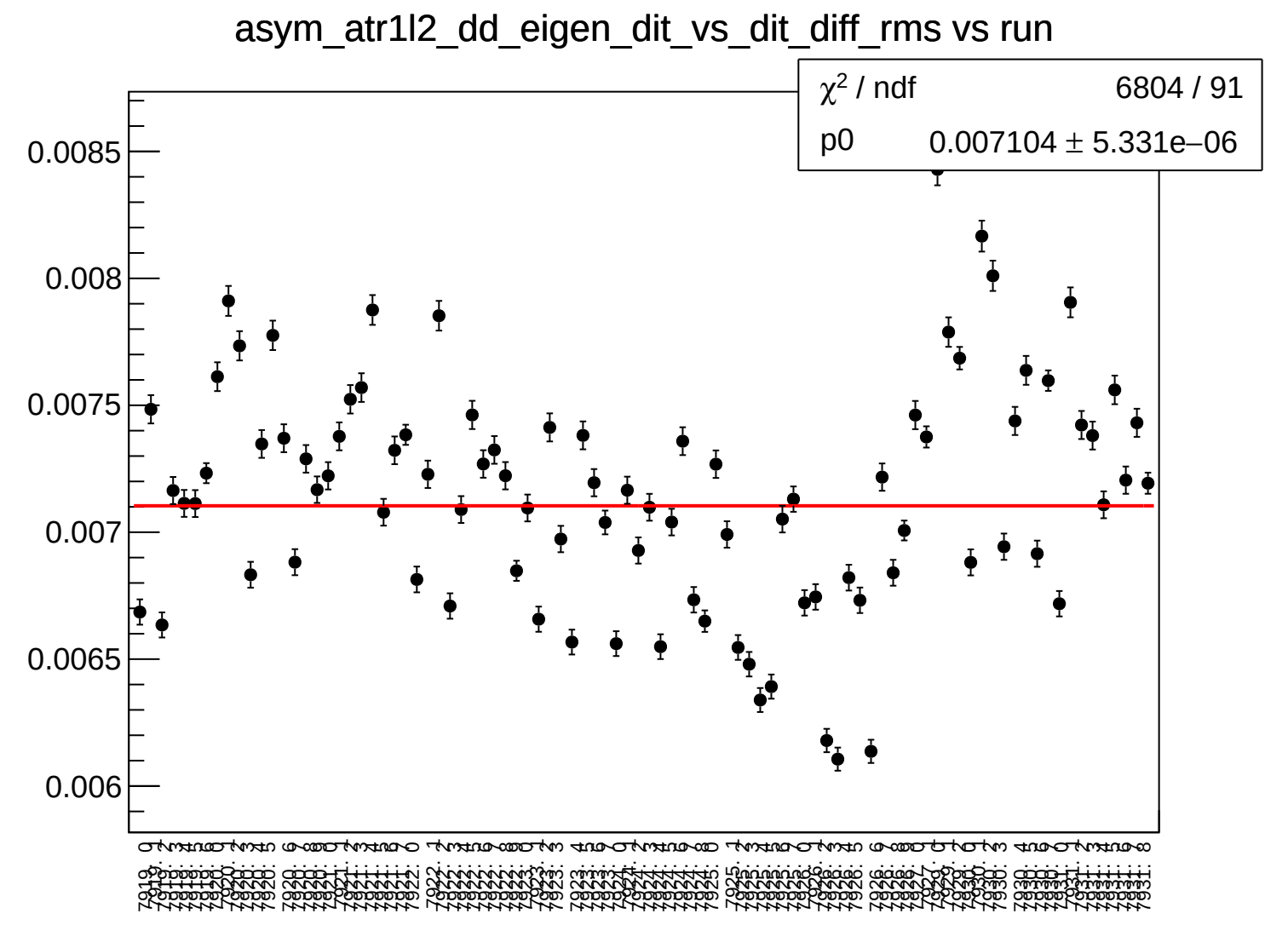

asym_atr1l2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.433e+04 / 91
p0 151.1 ± 0.1142
240
220
200
180
160
140
120
100

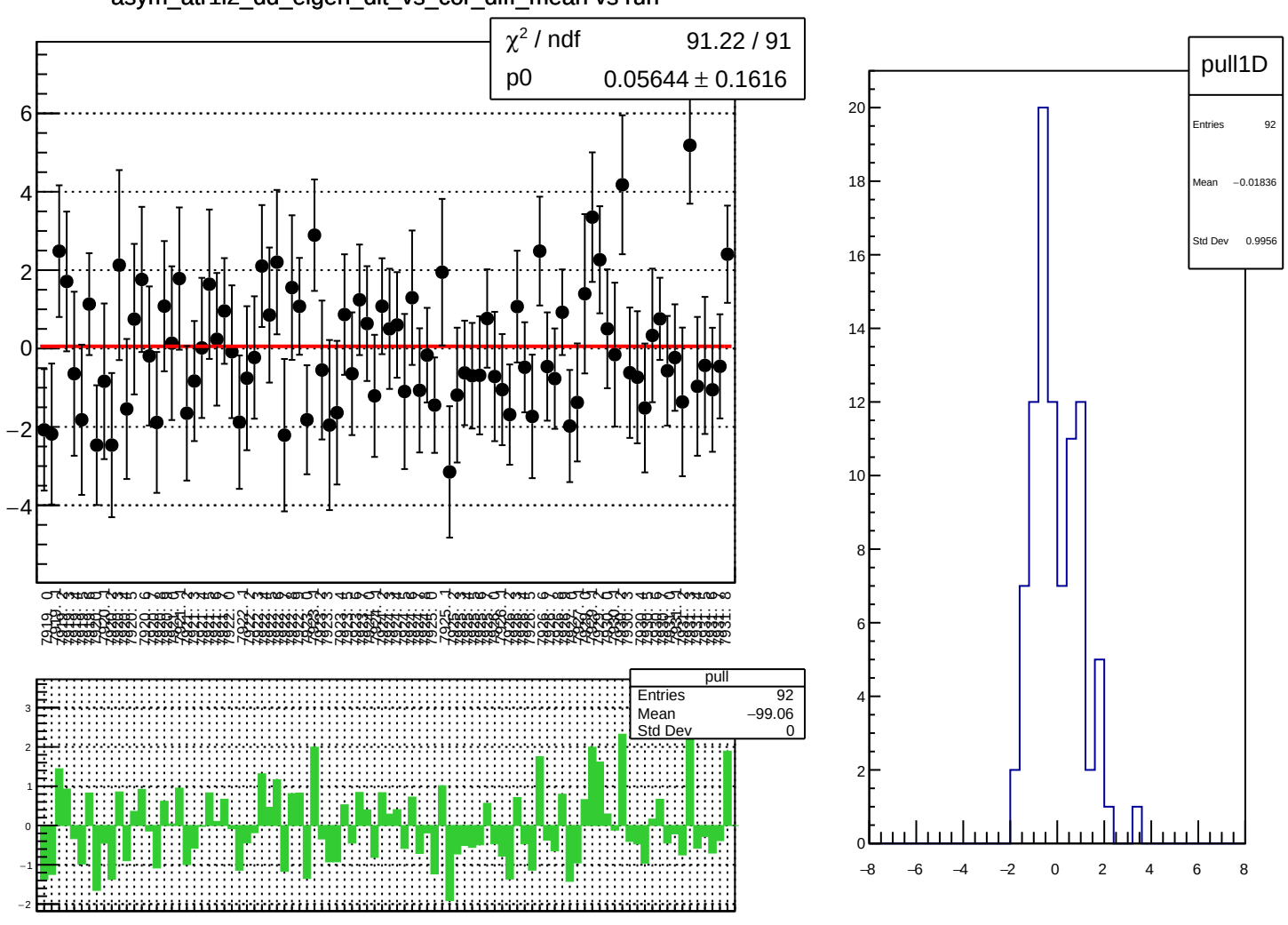

asym_atr1l2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.22 / 91
p0 0.05643 ± 0.1616
pull
Entries 92
Mean −99.07
Std Dev 0
pull1D
Entries 92
Mean −0.01836
Std Dev 0.9956

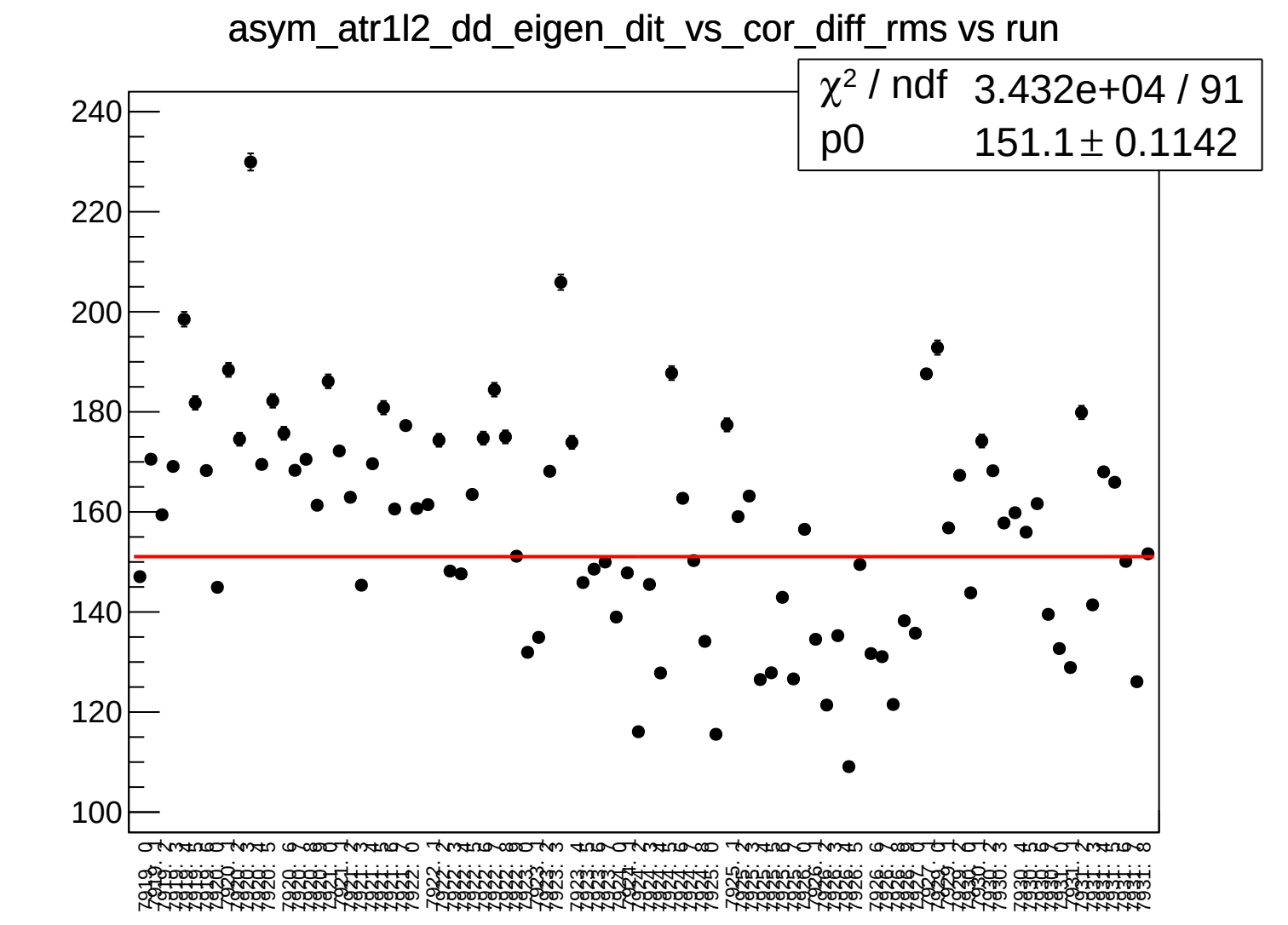

asym_atr1l2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.433e+04 / 91
p0 151.1 ± 0.1142
240
220
200
180
160
140
120
100

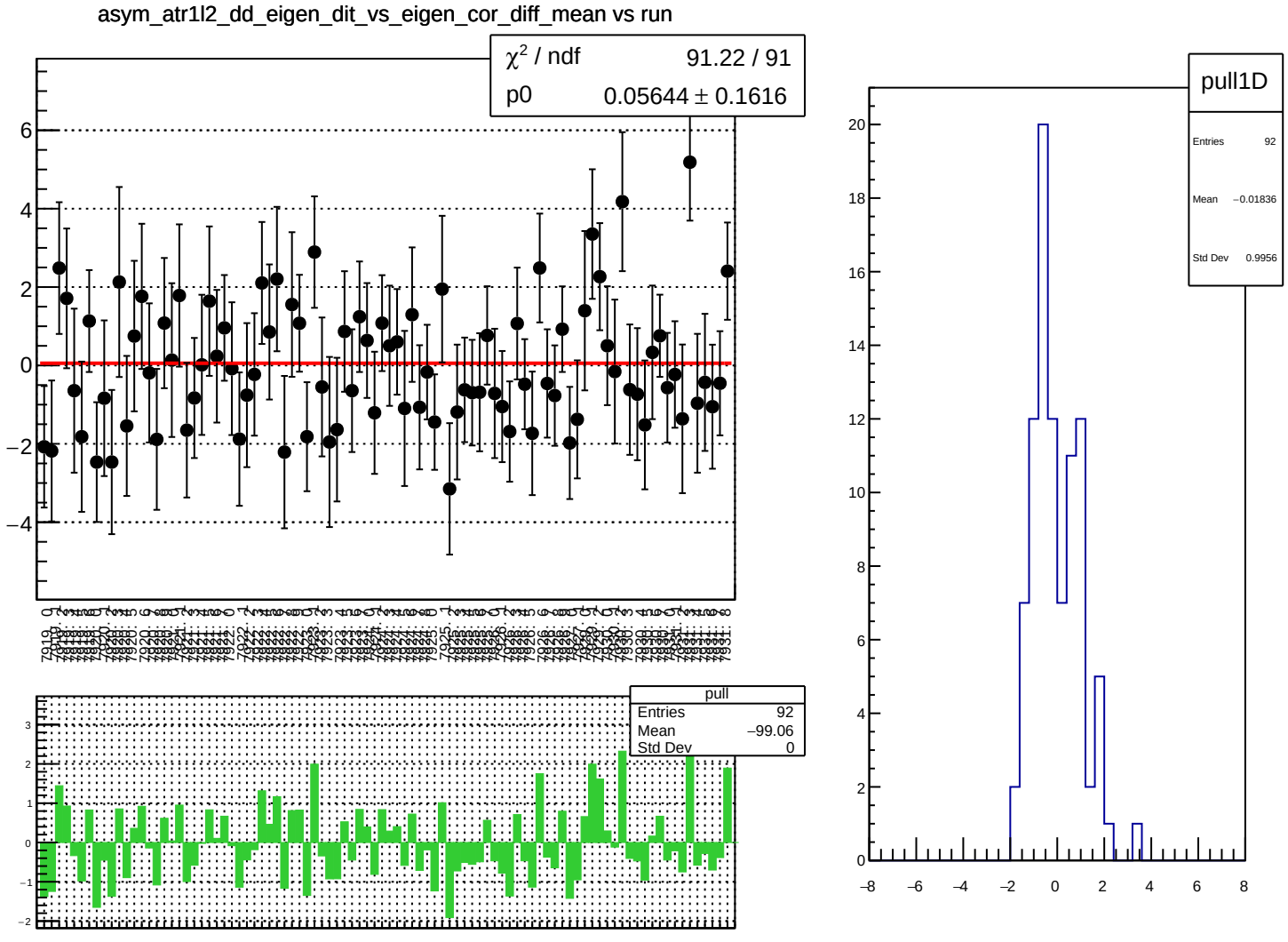

asym_atr1l2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 98.05 / 91
p0 1.156e−05 ± 7.539e−06
pull
Entries 92
Mean 6427
Std Dev 0

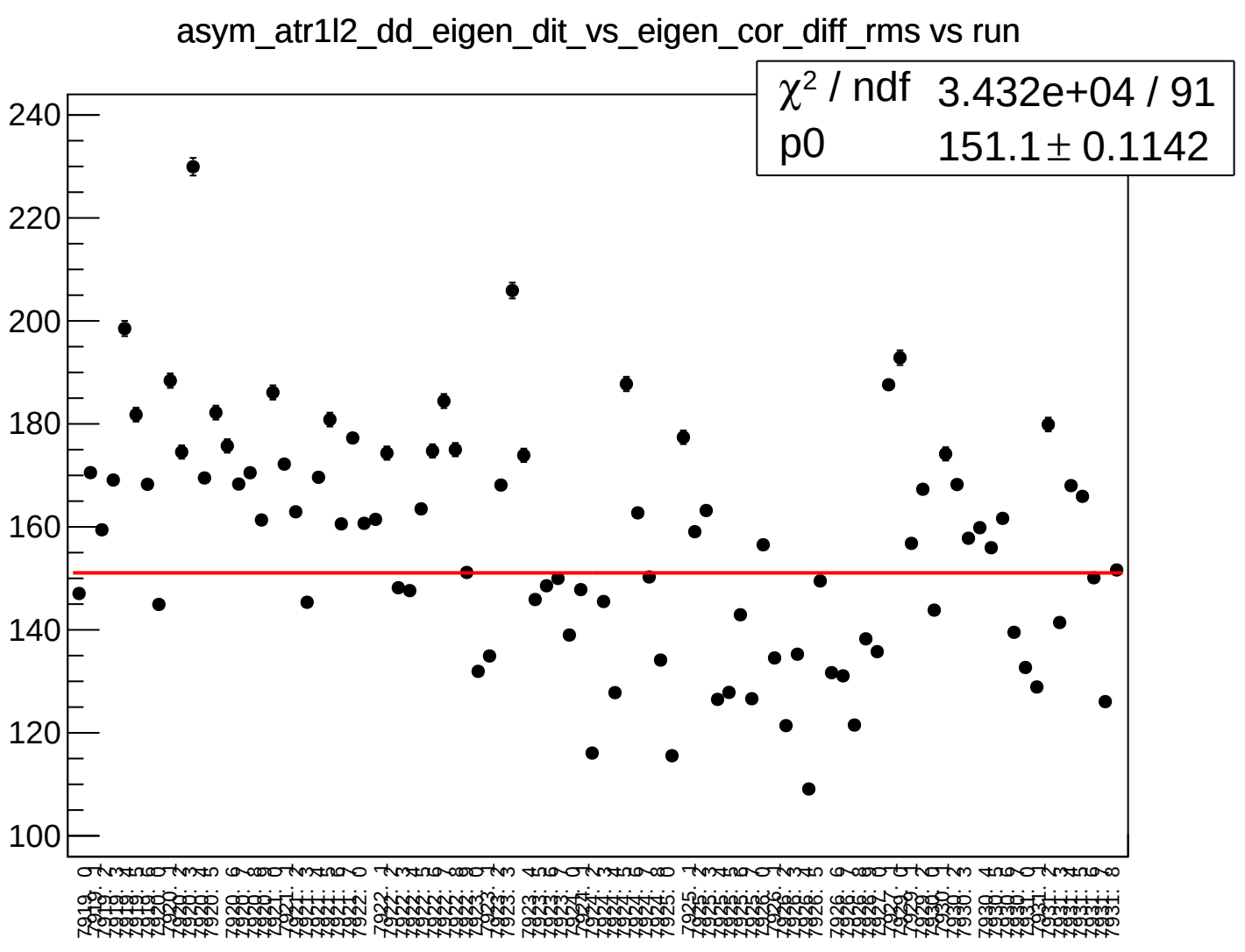

pull1D
Entries 92
Mean −0.0003344
Std Dev 1.032

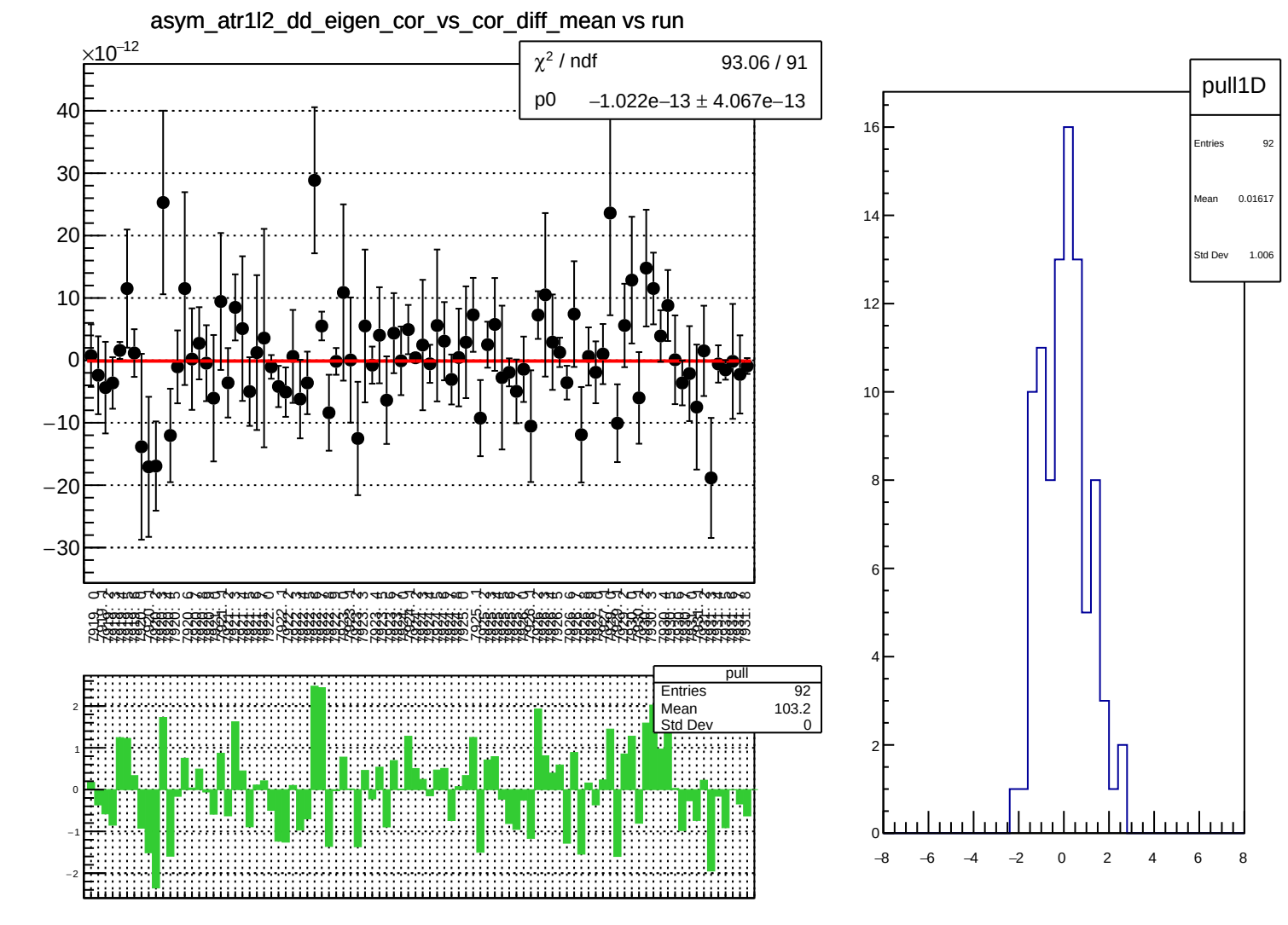

asym_atr1l2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6804 / 91
p0 0.007104 ± 5.331e−06
0.0085
0.008
0.0075
0.007
0.0065
0.006

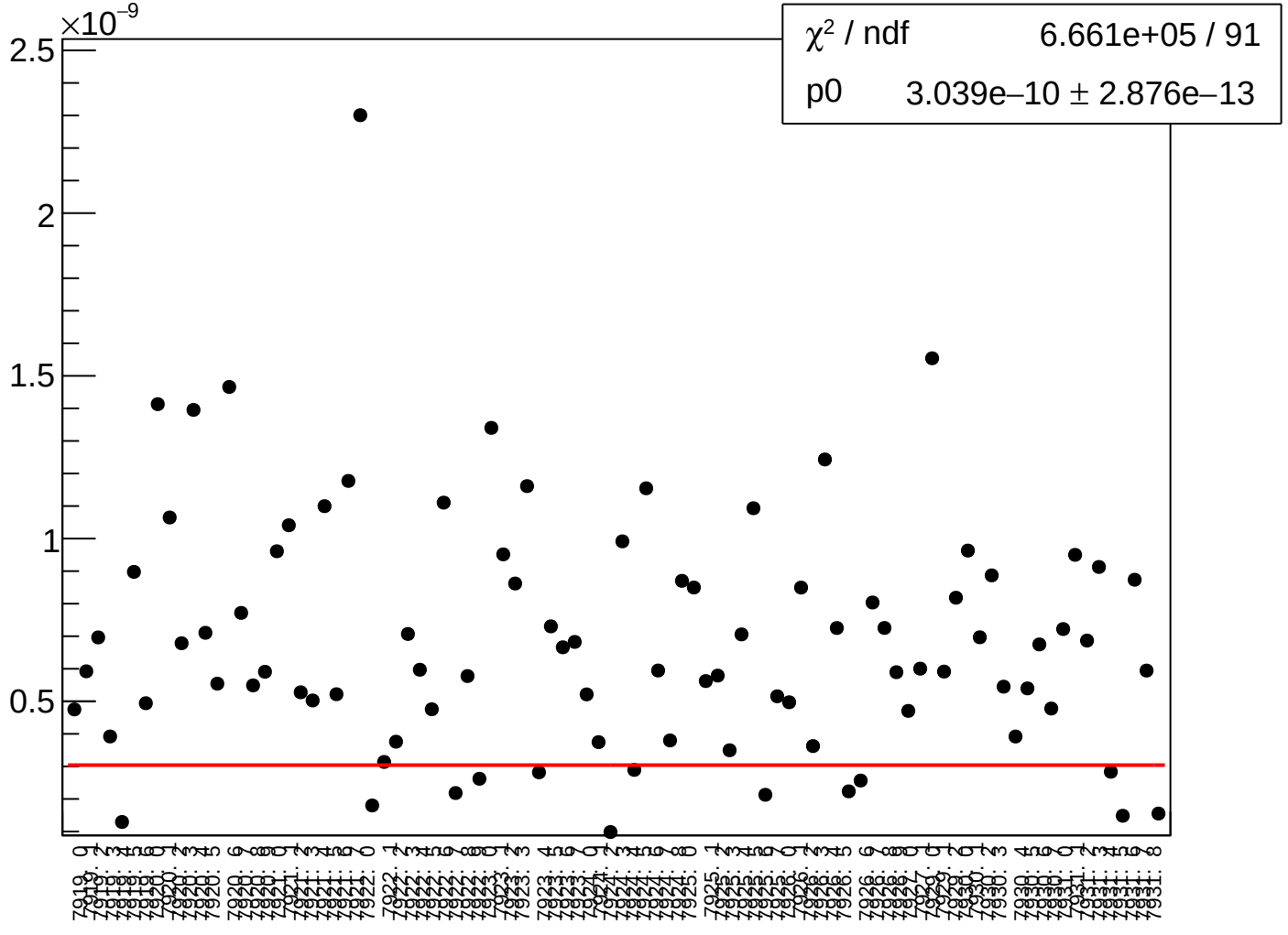

asym_atr1l2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.22 / 91
p0 0.05644 ± 0.1616
pull
Entries 92
Mean −99.06
Std Dev 0
pull1D
Entries 92
Mean −0.01836
Std Dev 0.9956

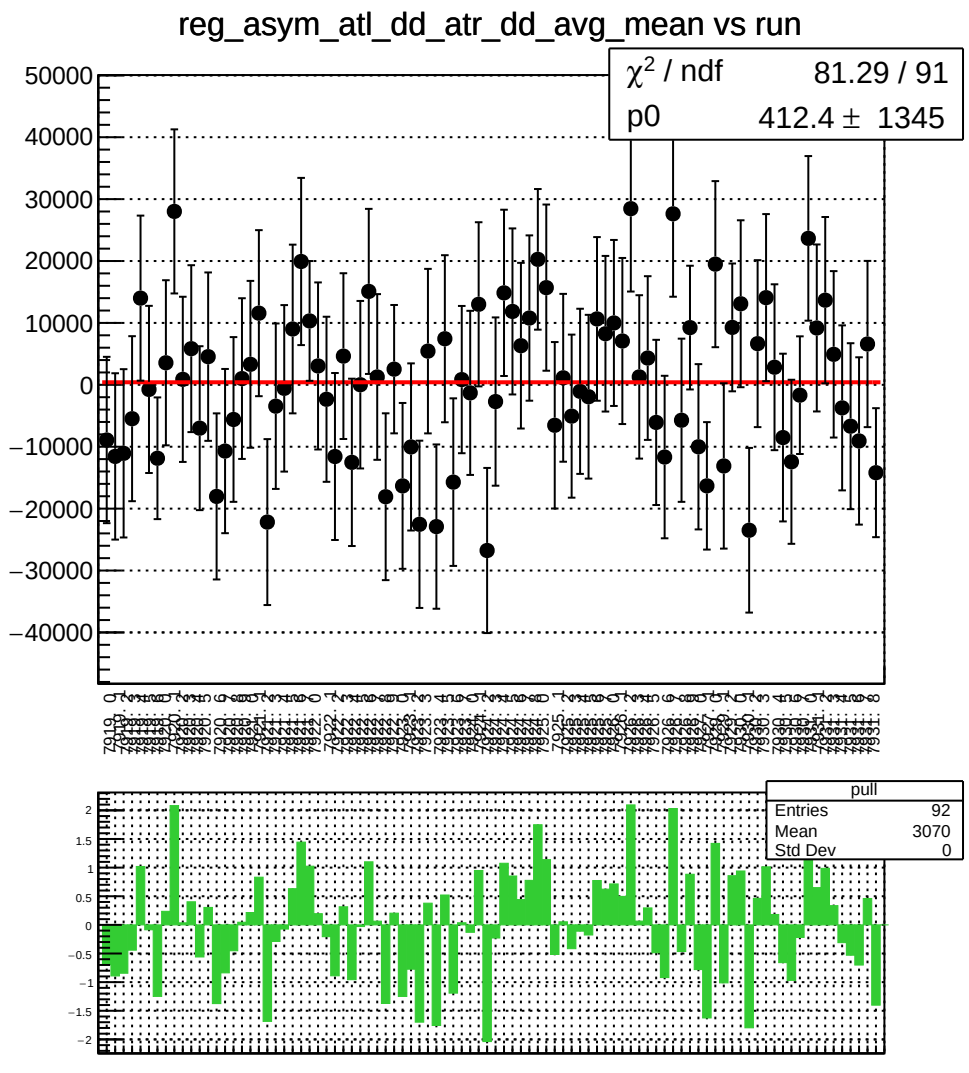

asym_atr1l2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.432e+04 / 91
p0 151.1 ± 0.1142
240
220
200
180
160
140
120
100

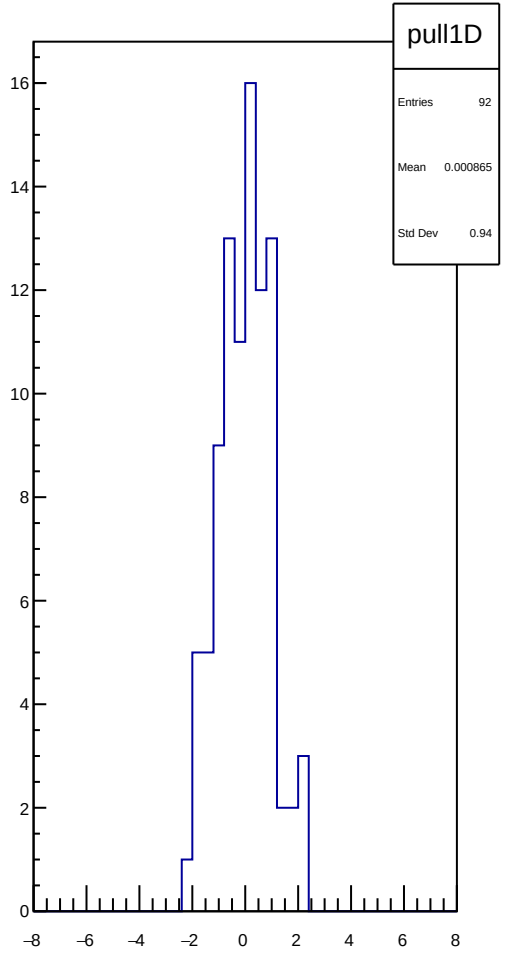

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.22 / 91
p0 0.05644 ± 0.1616
pull
Entries 92
Mean −99.06
Std Dev 0
pull1D
Entries 92
Mean −0.01836
Std Dev 0.9956

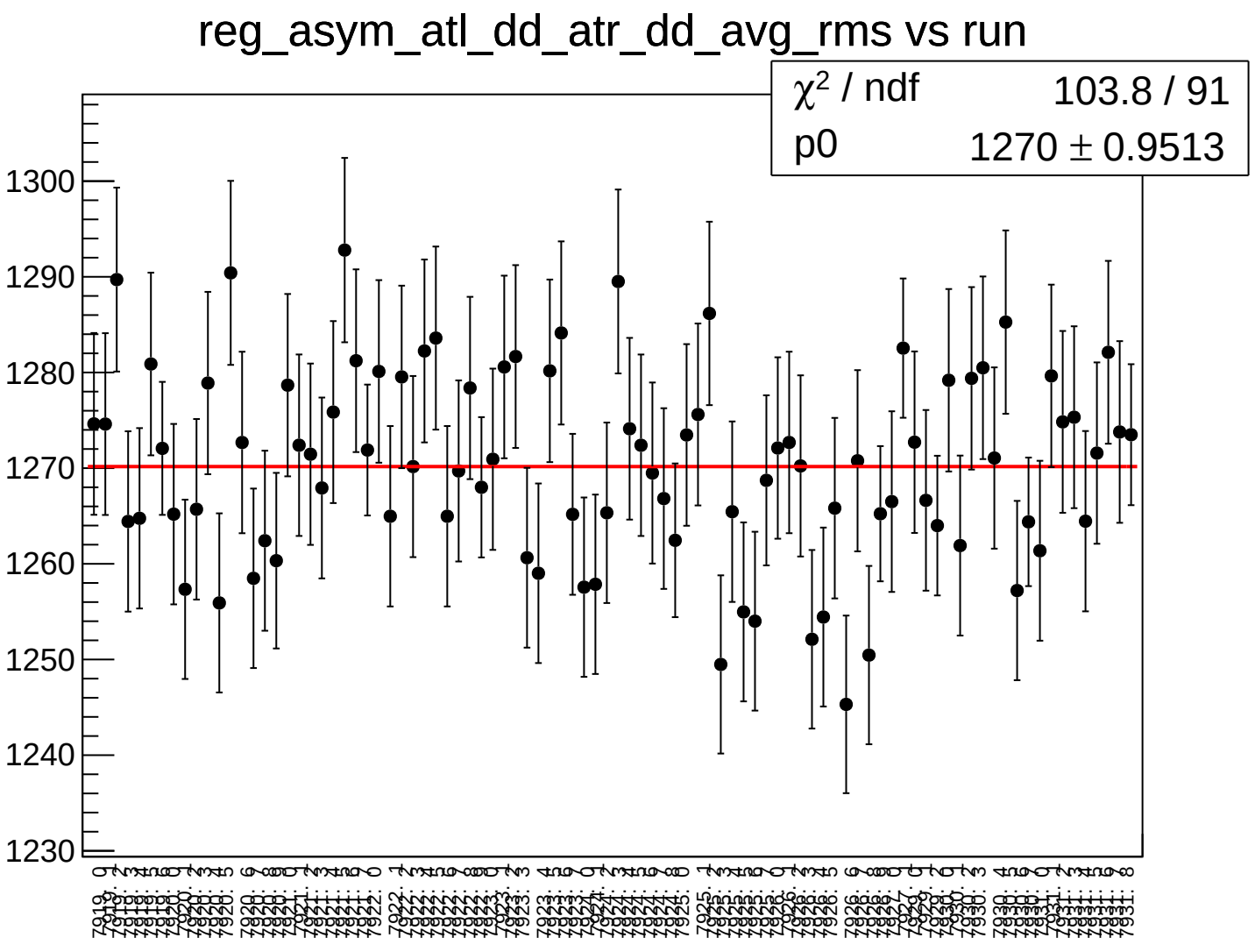

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.432e+04 / 91
p0 151.1 ± 0.1142
240
220
200
180
160
140
120
100

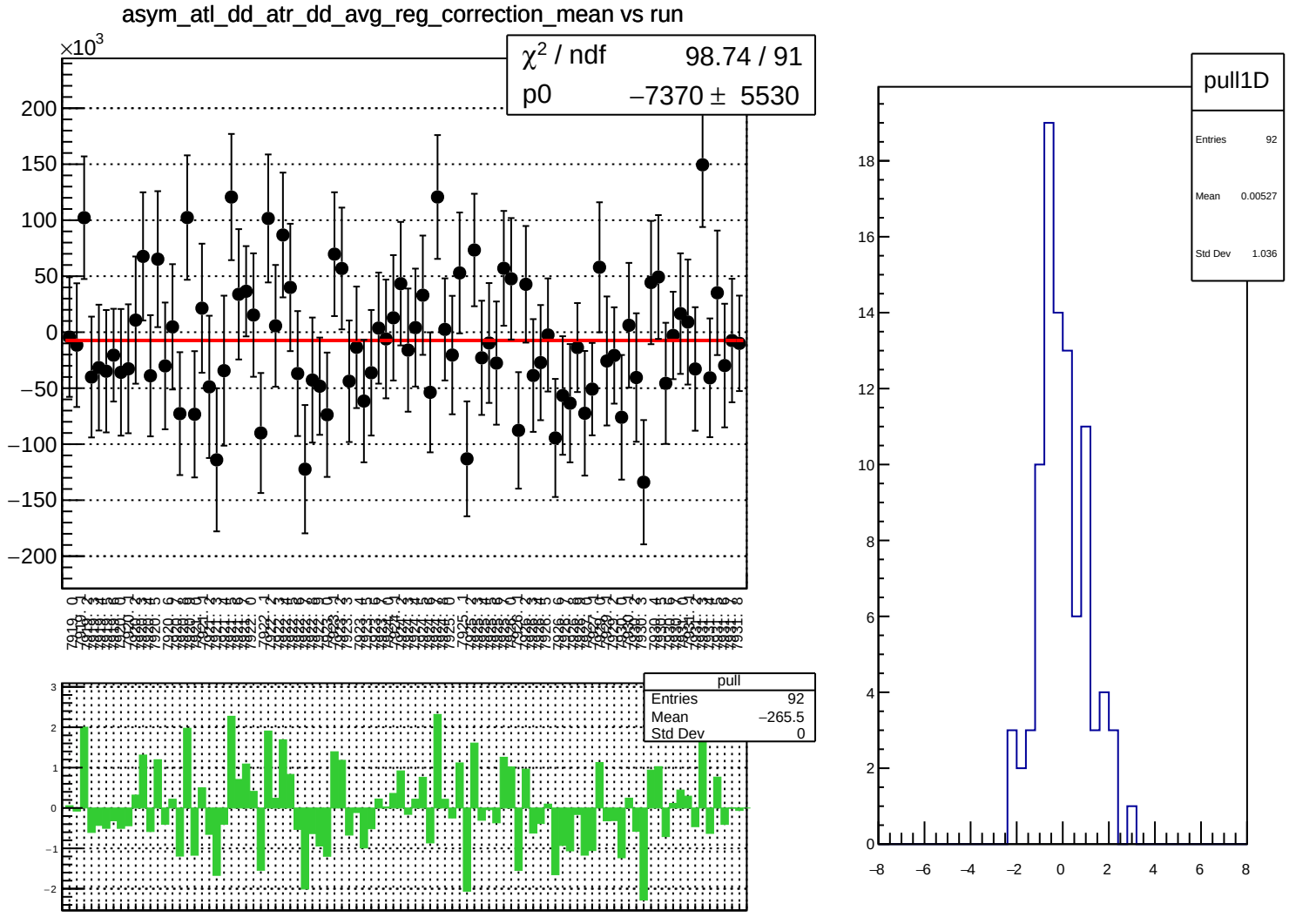

asym_atr1l2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.06 / 91
p0 −1.022e−13 ± 4.067e−13
pull
Entries 92
Mean 103.2
Std Dev 0
pull1D
Entries 92
Mean 0.01617
Std Dev 1.006

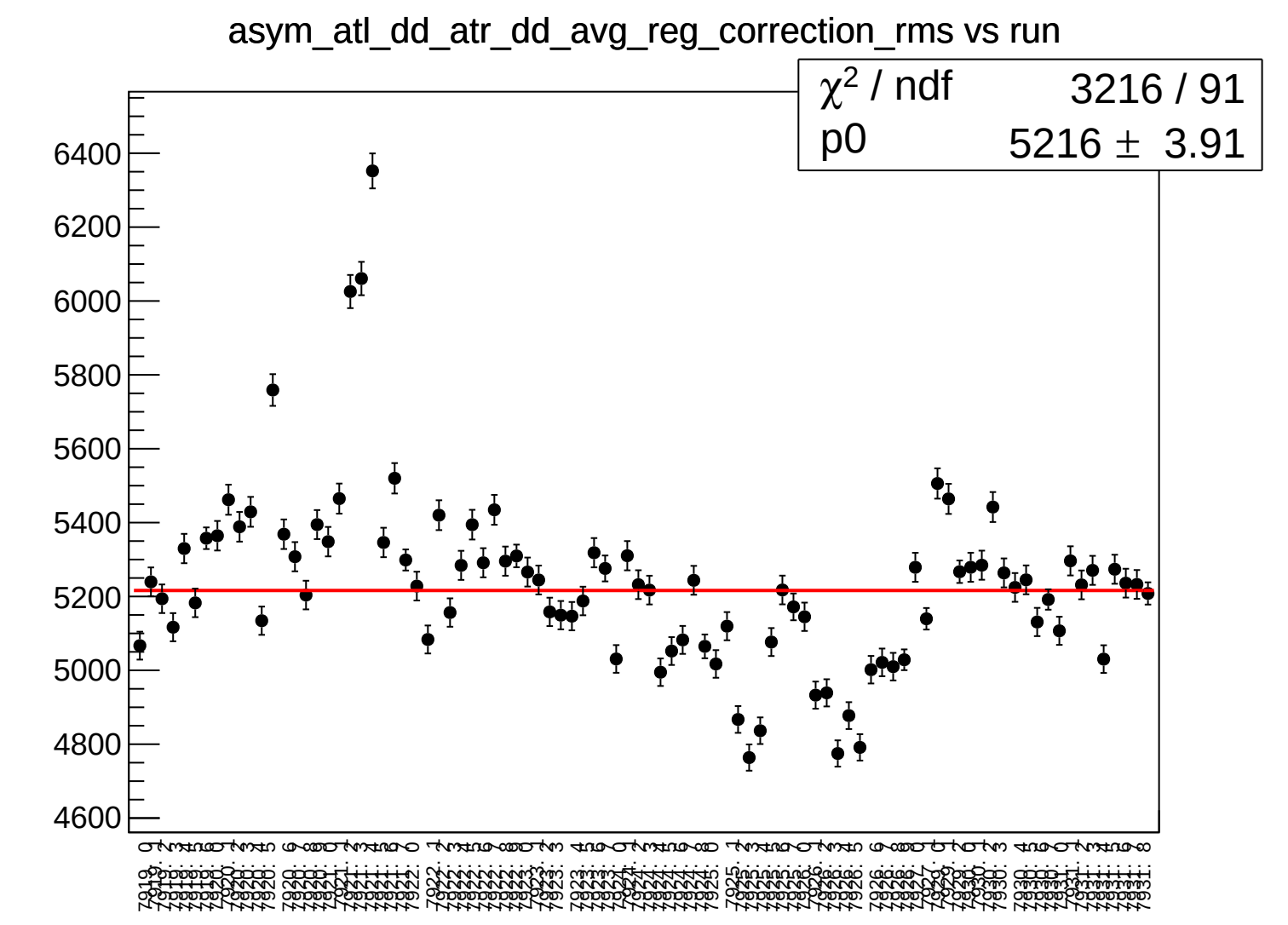

asym_atr1l2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
2.5
2
1.5
1
0.5
χ² / ndf 6.661e+05 / 91
p0 3.039e−10 ± 2.876e−13

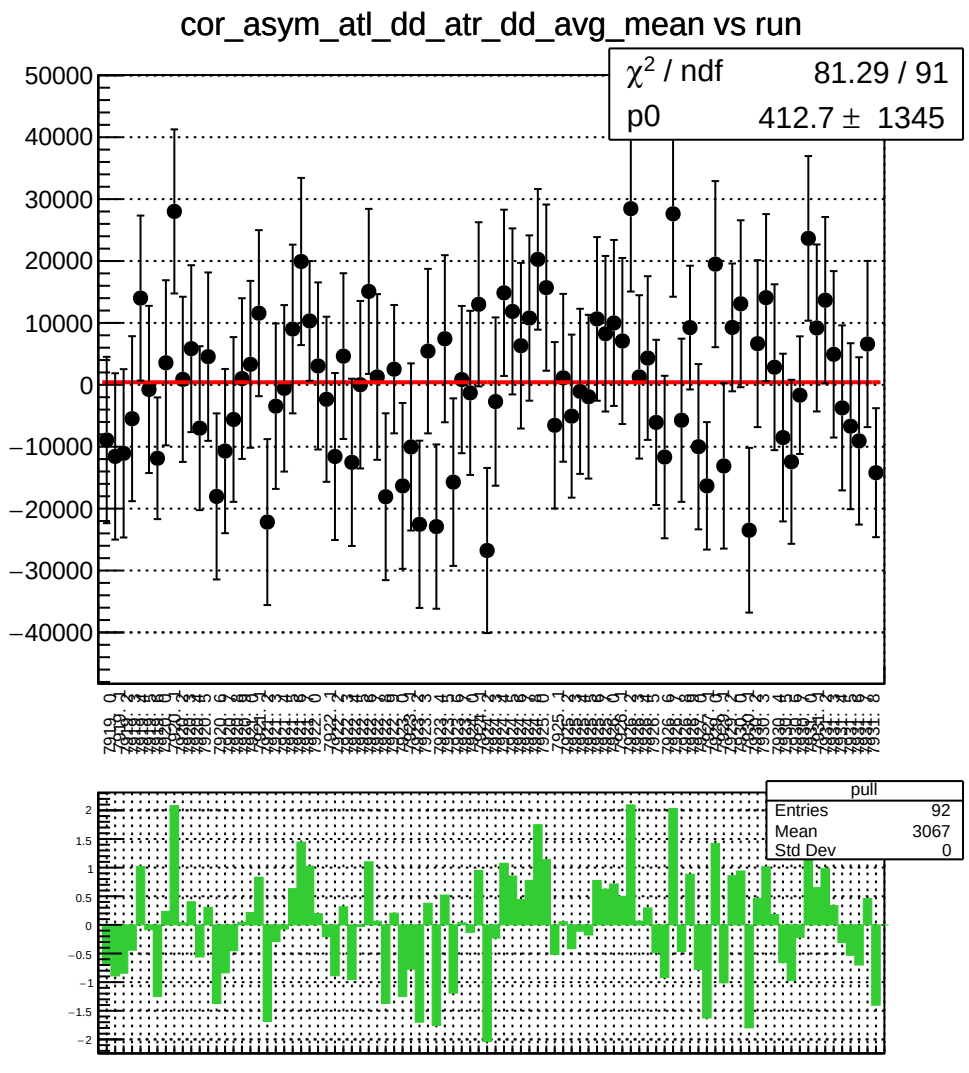

reg_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 81.29 / 91
p0 412.4 ± 1345
pull
Entries 92
Mean 3070
Std Dev 0

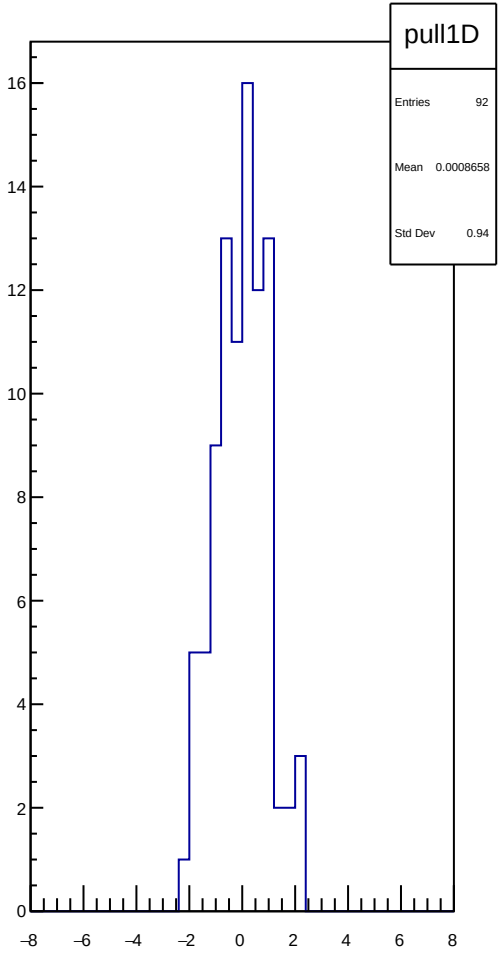

pull1D
Entries 92
Mean 0.000865
Std Dev 0.94

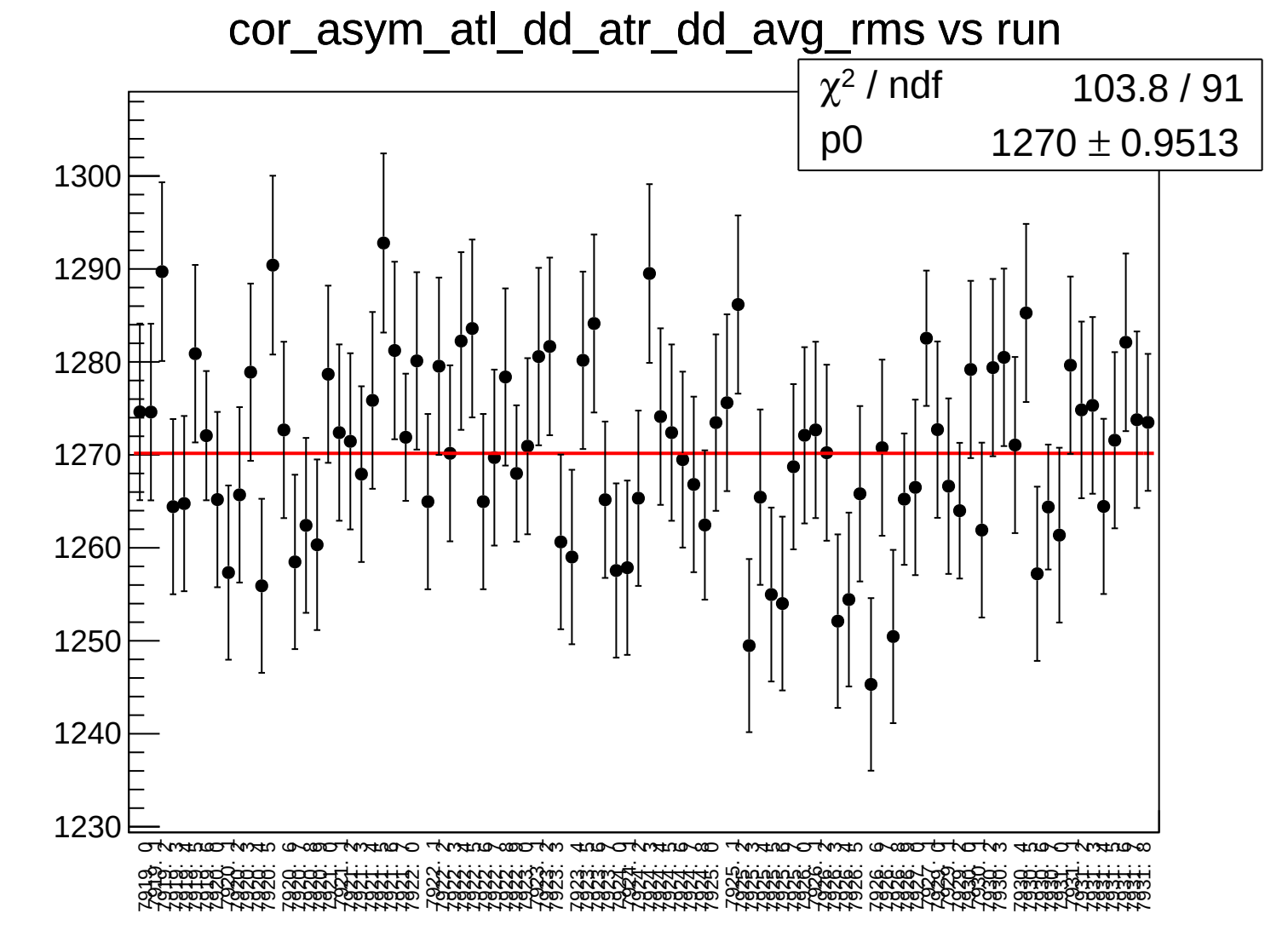

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ^2 / ndf 103.8 / 91
p0 1270 ± 0.9513
1300
1290
1280
1270
1260
1250
1240
1230

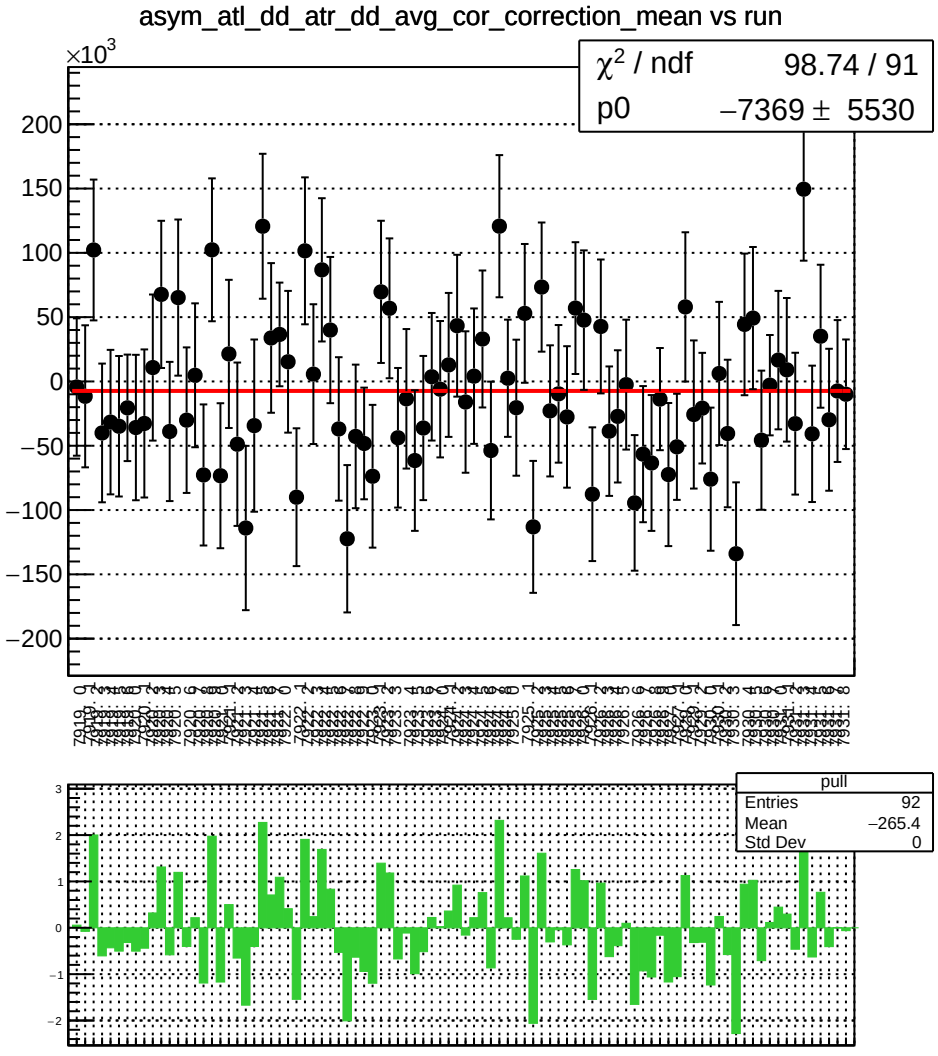

asym_atl_dd_atr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 98.74 / 91
p0 −7370 ± 5530
pull
Entries 92
Mean −265.5
Std Dev 0
pull1D
Entries 92
Mean 0.00527
Std Dev 1.036

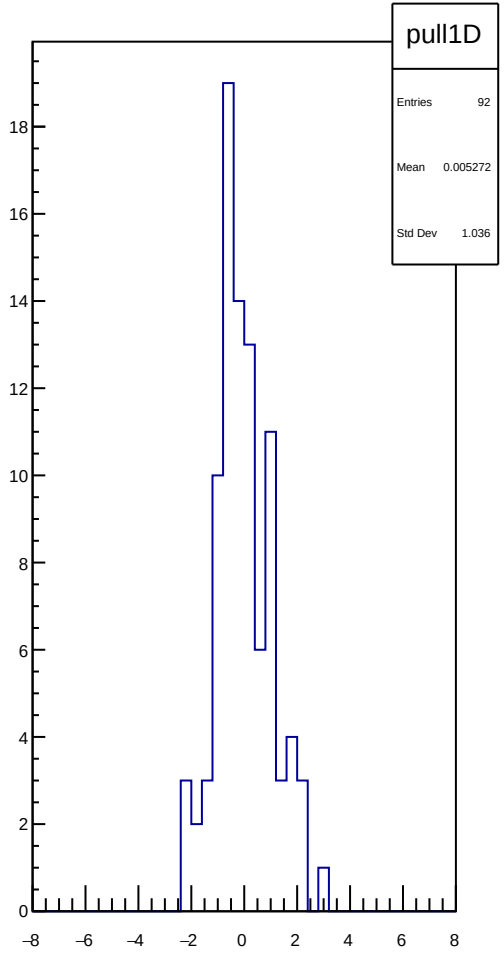

asym_atl_dd_atr_dd_avg_reg_correction_rms vs run
χ² / ndf 3216 / 91
p0 5216 ± 3.91
6400
6200
6000
5800
5600
5400
5200
5000
4800
4600

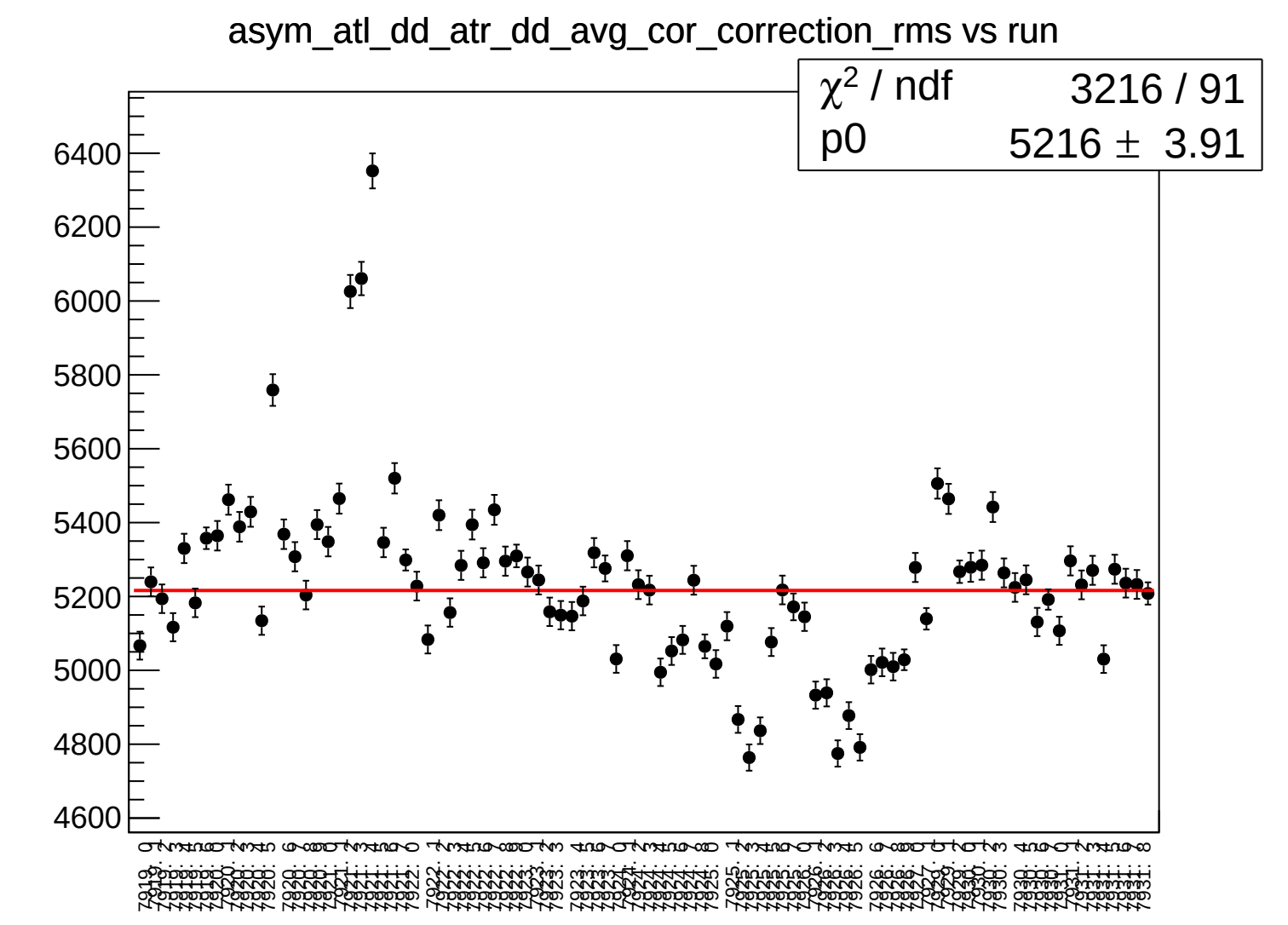

cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 81.29 / 91
p0 412.7 ± 1345
pull
Entries 92
Mean 3067
Std Dev 0

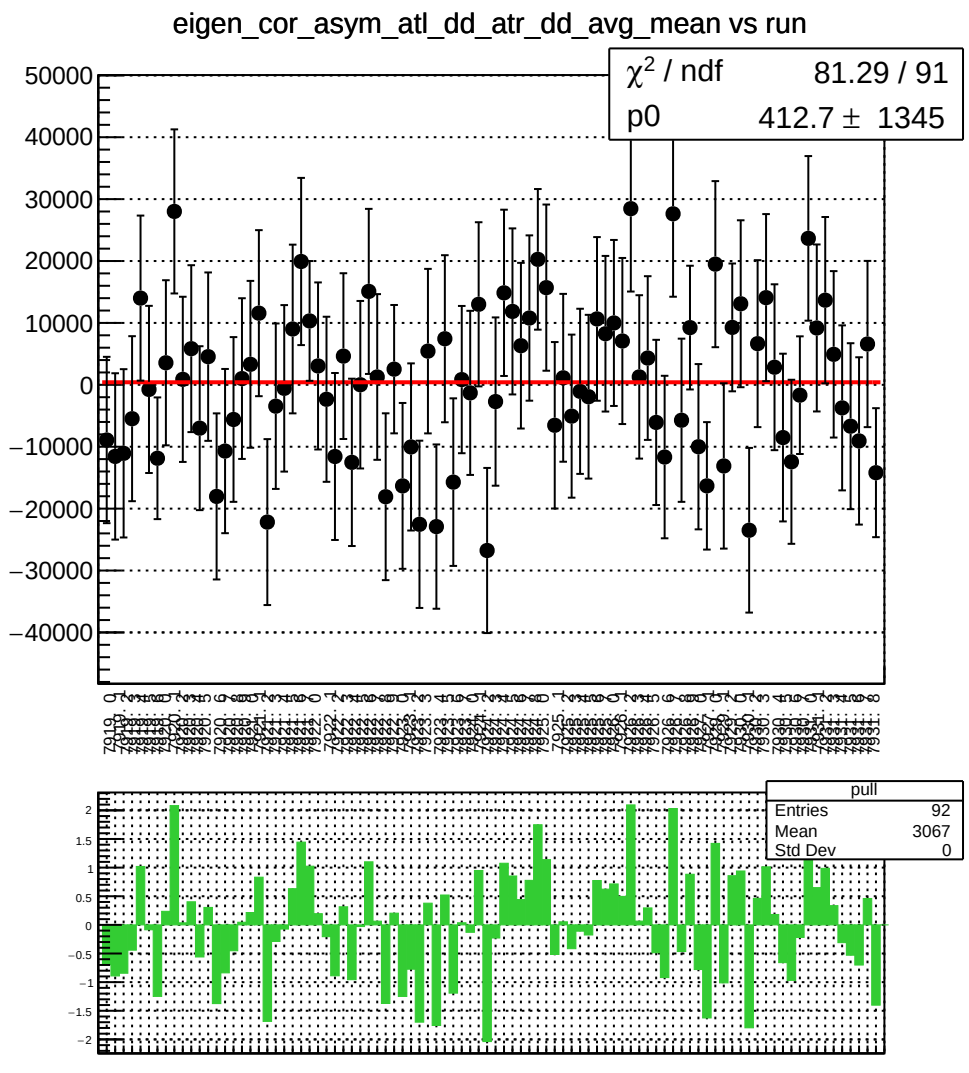

pull1D
Entries 92
Mean 0.0008658
Std Dev 0.94

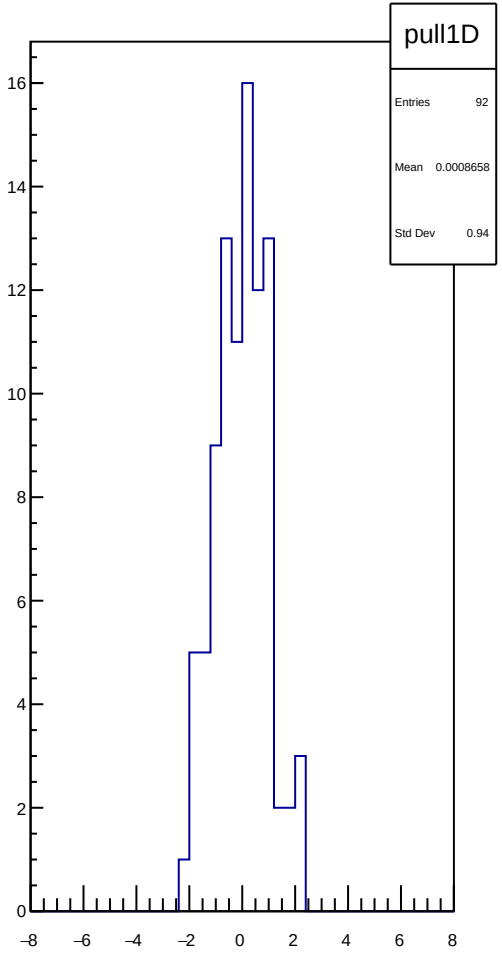

cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 103.8 / 91
p0 1270 ± 0.9513
1300
1290
1280
1270
1260
1250
1240
1230

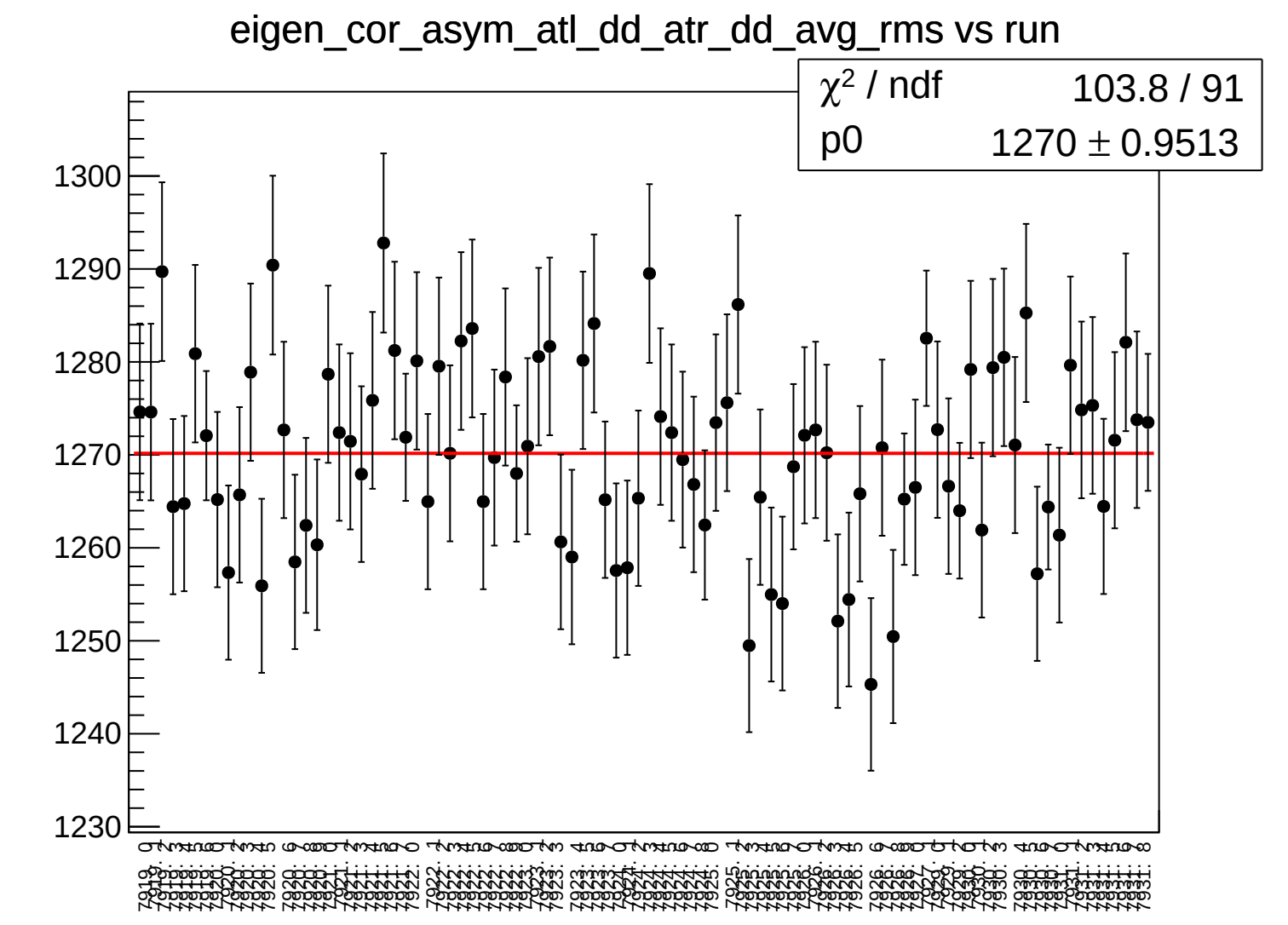

asym_atl_dd_atr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 98.74 / 91
p0 −7369 ± 5530
pull
Entries 92
Mean −265.4
Std Dev 0

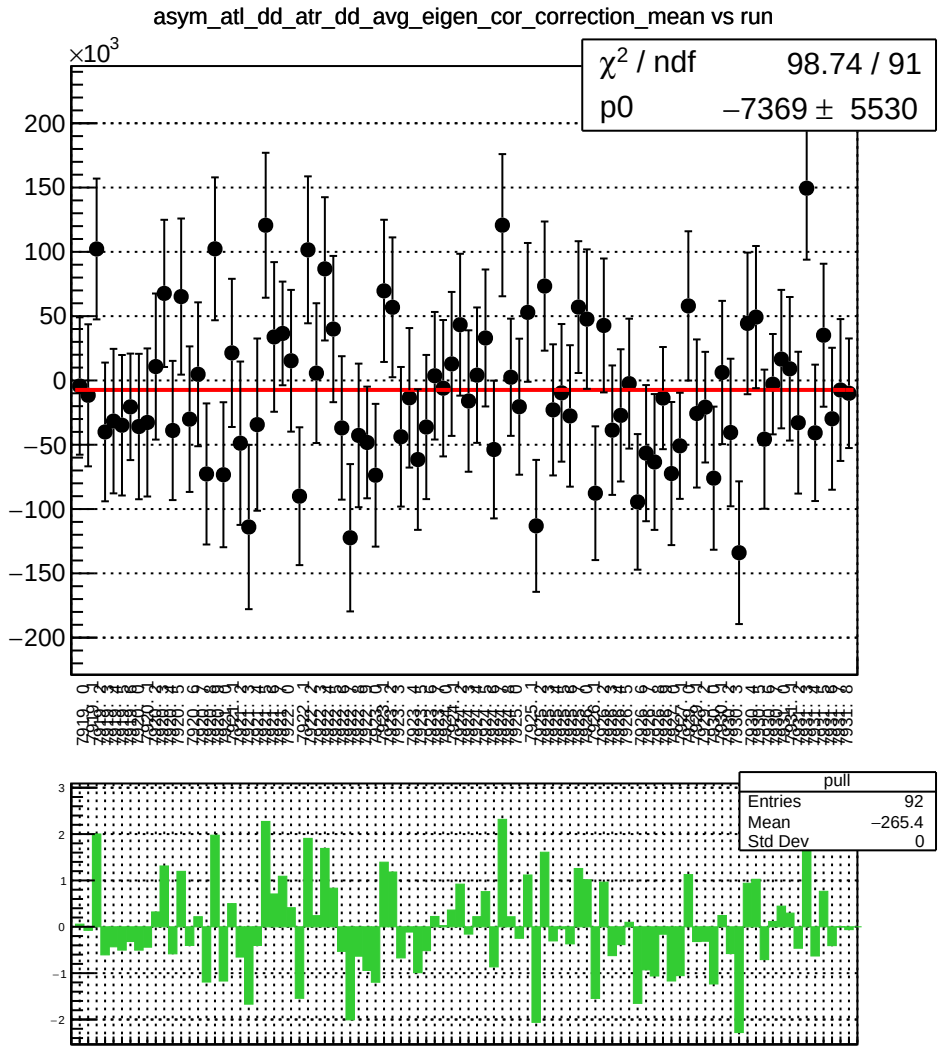

pull1D
Entries 92
Mean 0.005272
Std Dev 1.036

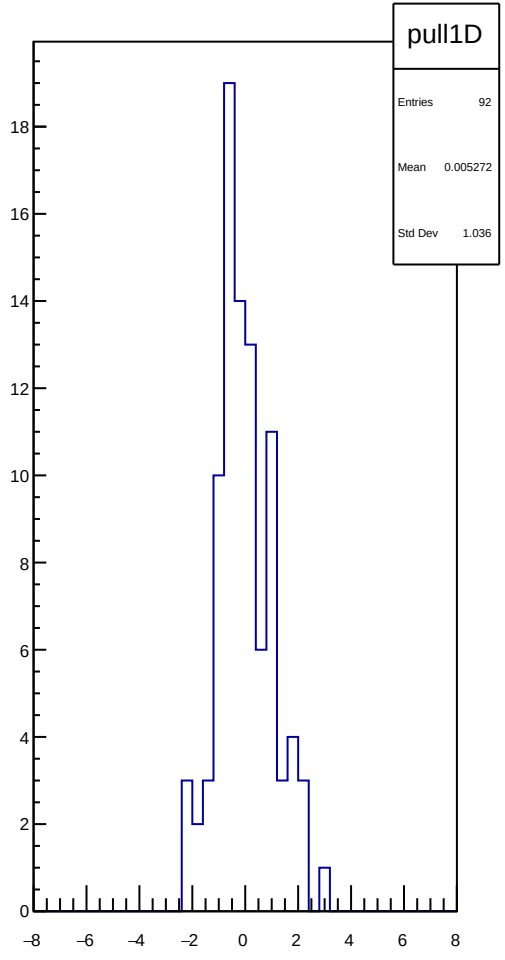

asym_atl_dd_atr_dd_avg_cor_correction_rms vs run
χ² / ndf 3216 / 91
p0 5216 ± 3.91
6400
6200
6000
5800
5600
5400
5200
5000
4800
4600

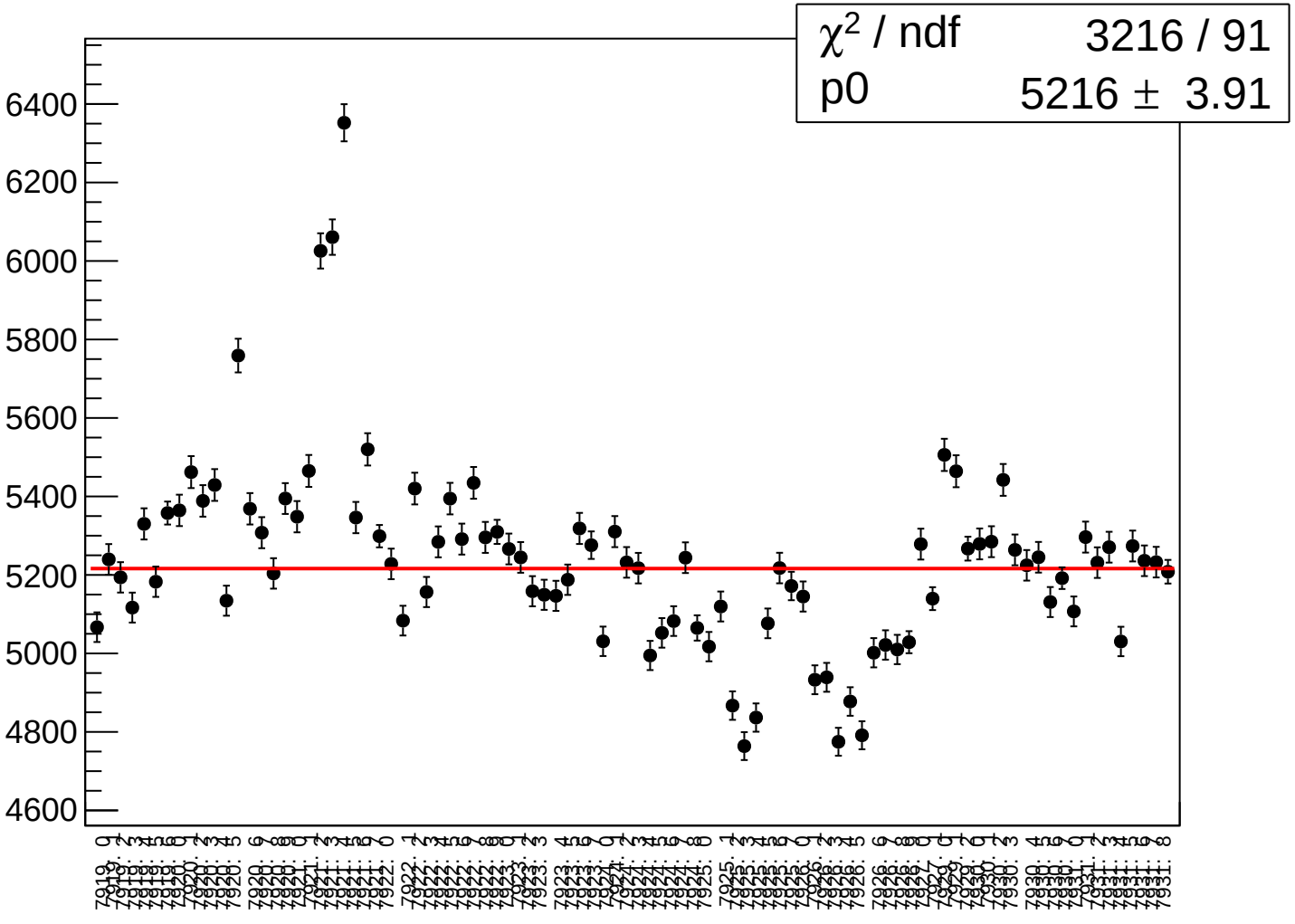

eigen_cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 81.29 / 91
p0 412.7 ± 1345
pull
Entries 92
Mean 3067
Std Dev 0

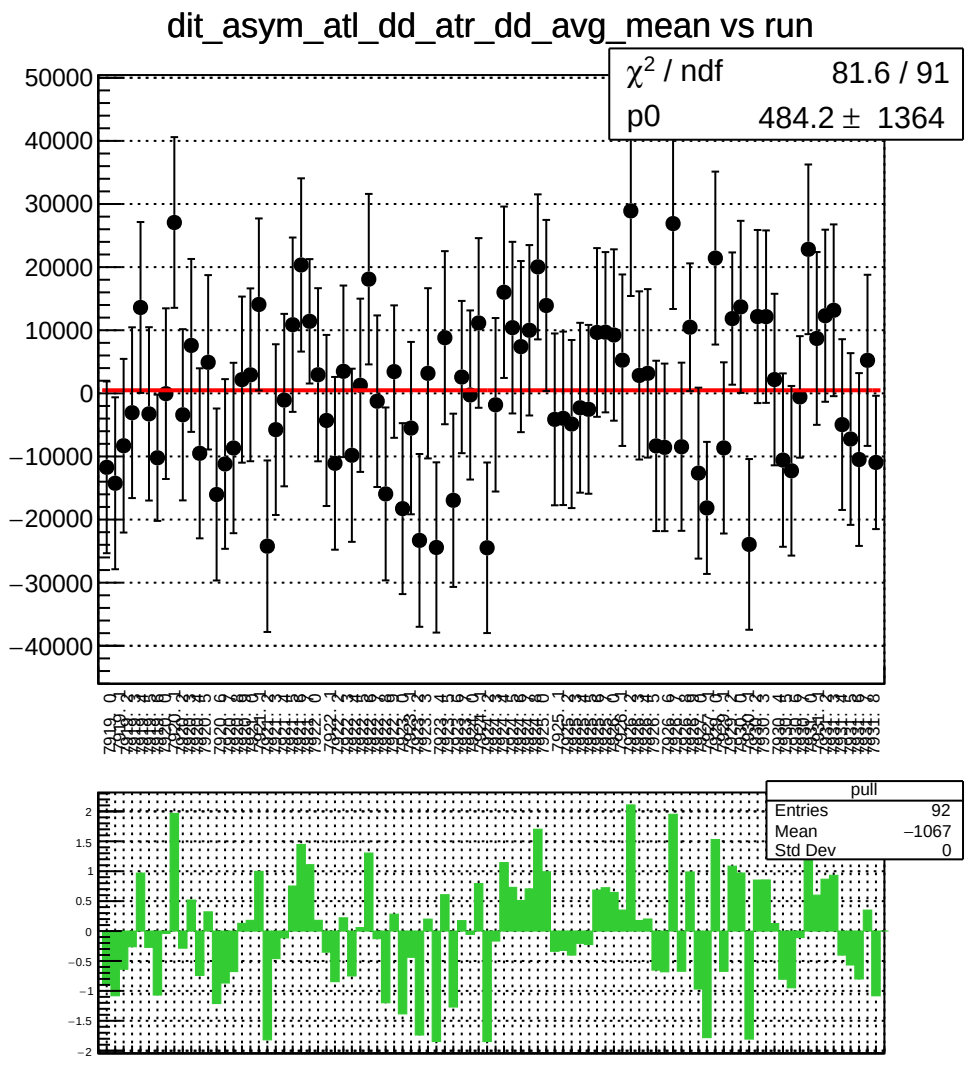

pull1D
Entries 92
Mean 0.0008658
Std Dev 0.94

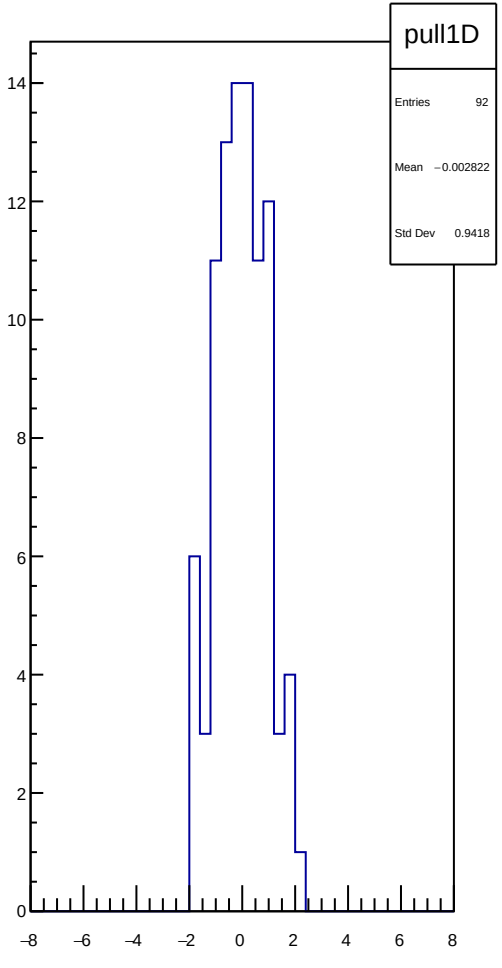

eigen_cor_asym_atl_dd_atr_dd_avg_rms vs run
χ^2 / ndf 103.8 / 91
p0 1270 ± 0.9513
1300
1290
1280
1270
1260
1250
1240
1230

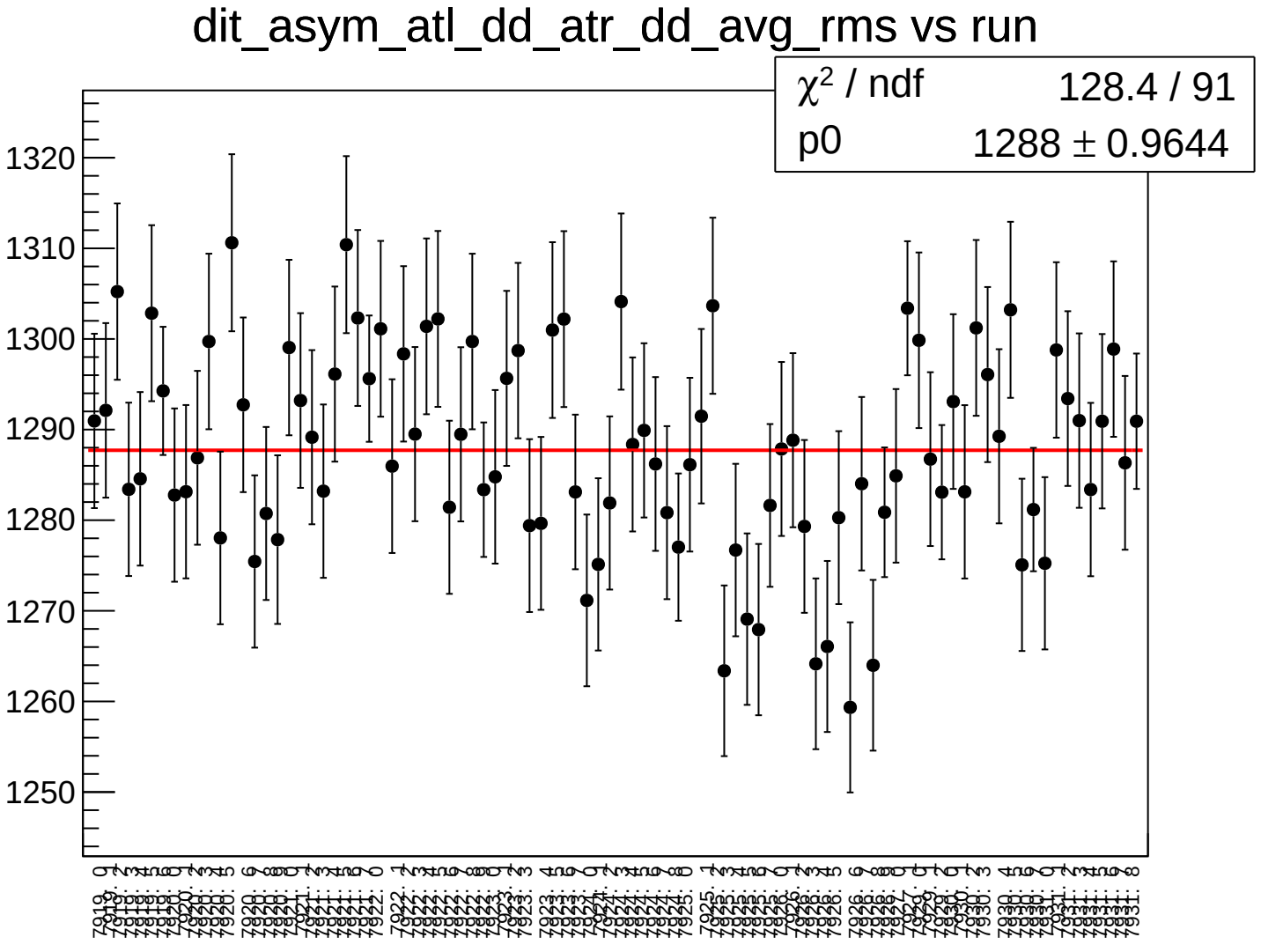

asym_atl_dd_atr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 98.74 / 91
p0 −7369 ± 5530
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 92
Mean −265.4
Std Dev 0
3
2
1
0
−1
−2

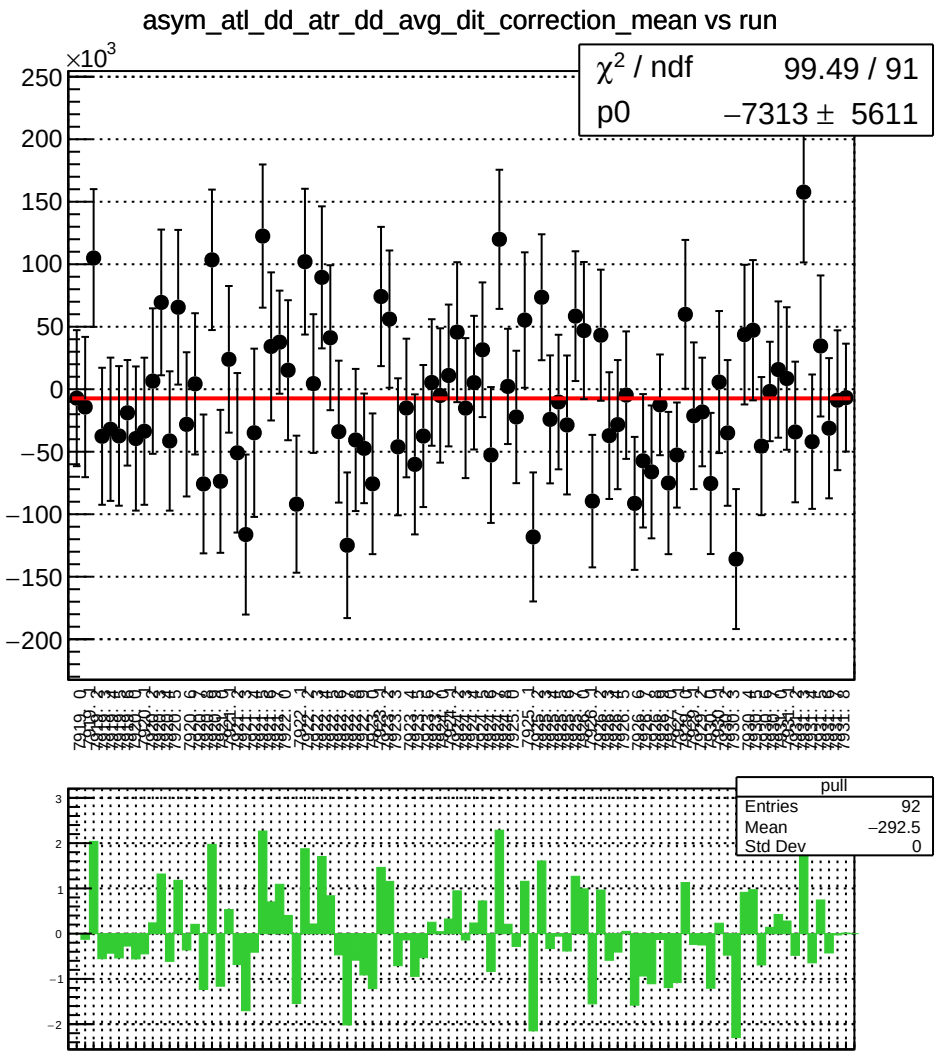

pull1D
Entries 92
Mean 0.005272
Std Dev 1.036
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

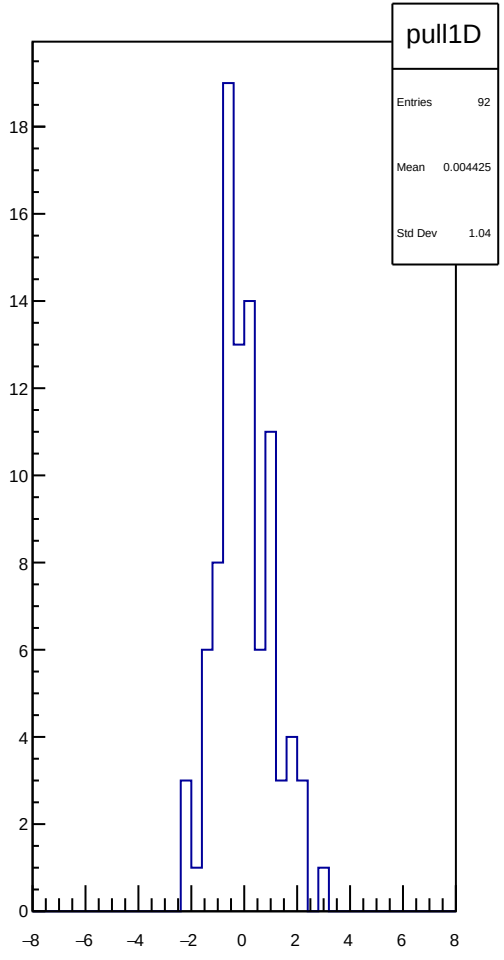

asym_atl_dd_atr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 3216 / 91
p0 5216 ± 3.91
6400
6200
6000
5800
5600
5400
5200
5000
4800
4600

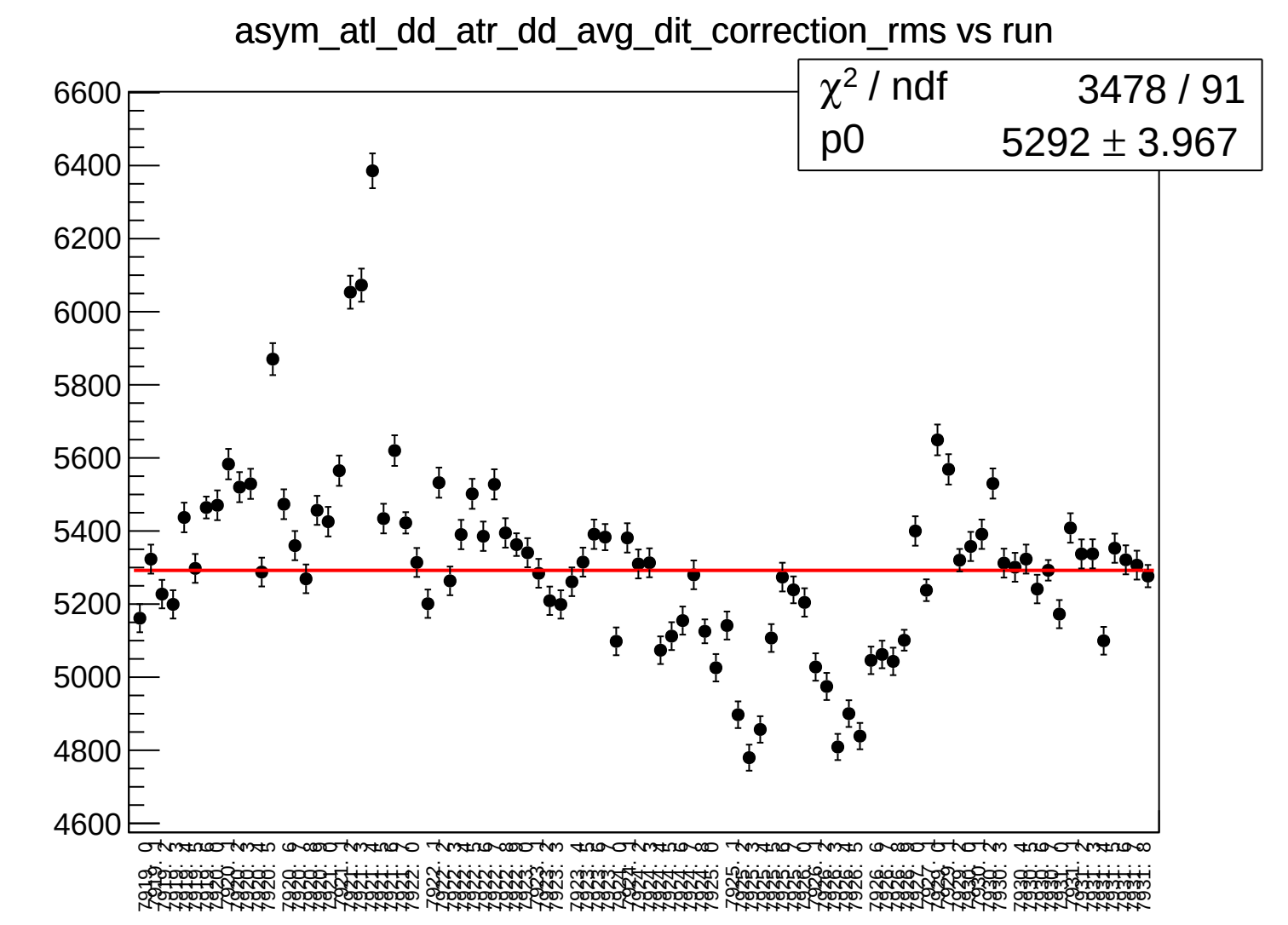

dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 81.6 / 91
p0 484.2 ± 1364
pull
Entries 92
Mean −1067
Std Dev 0

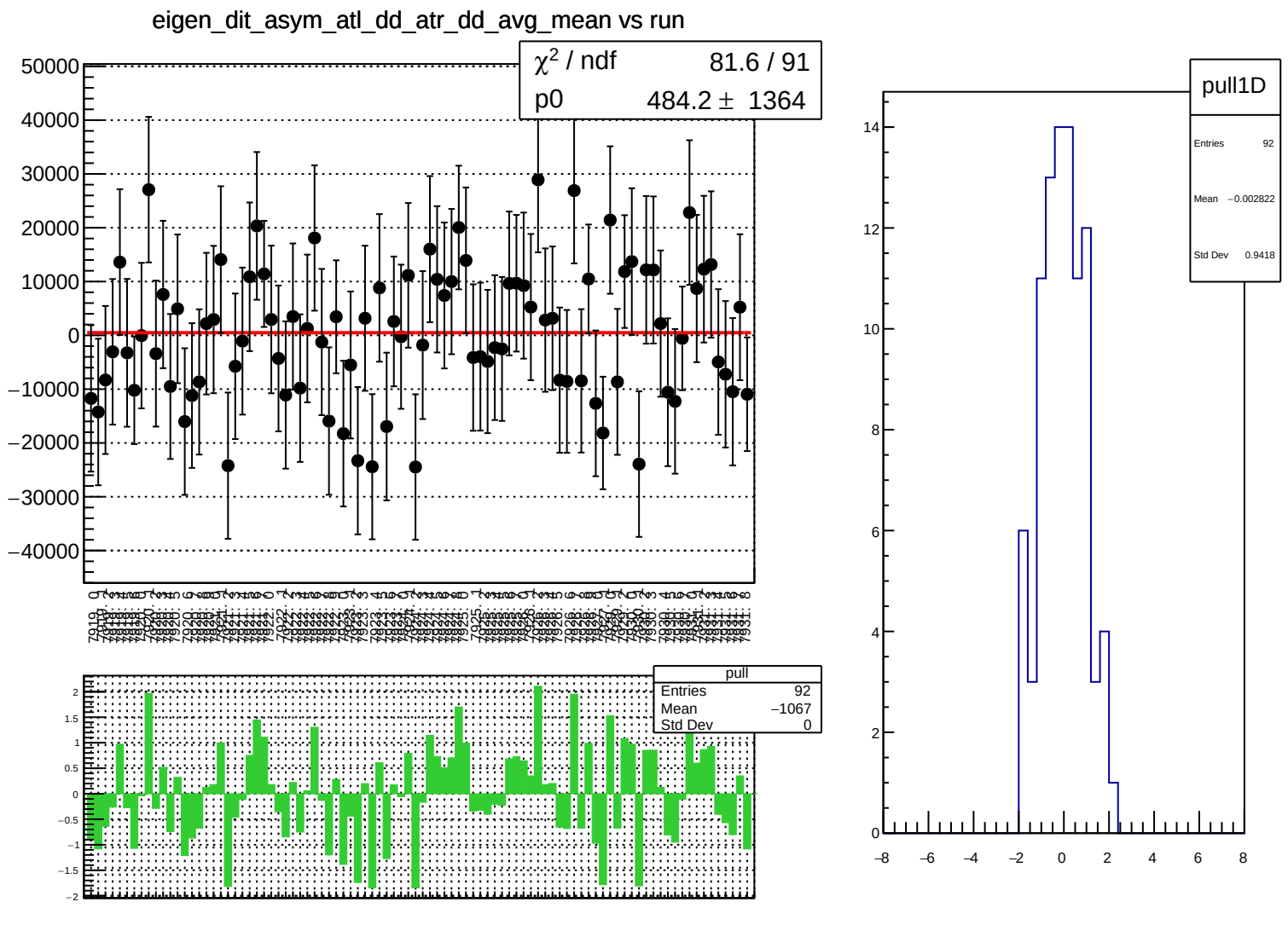

pull1D
Entries 92
Mean −0.002822
Std Dev 0.9418

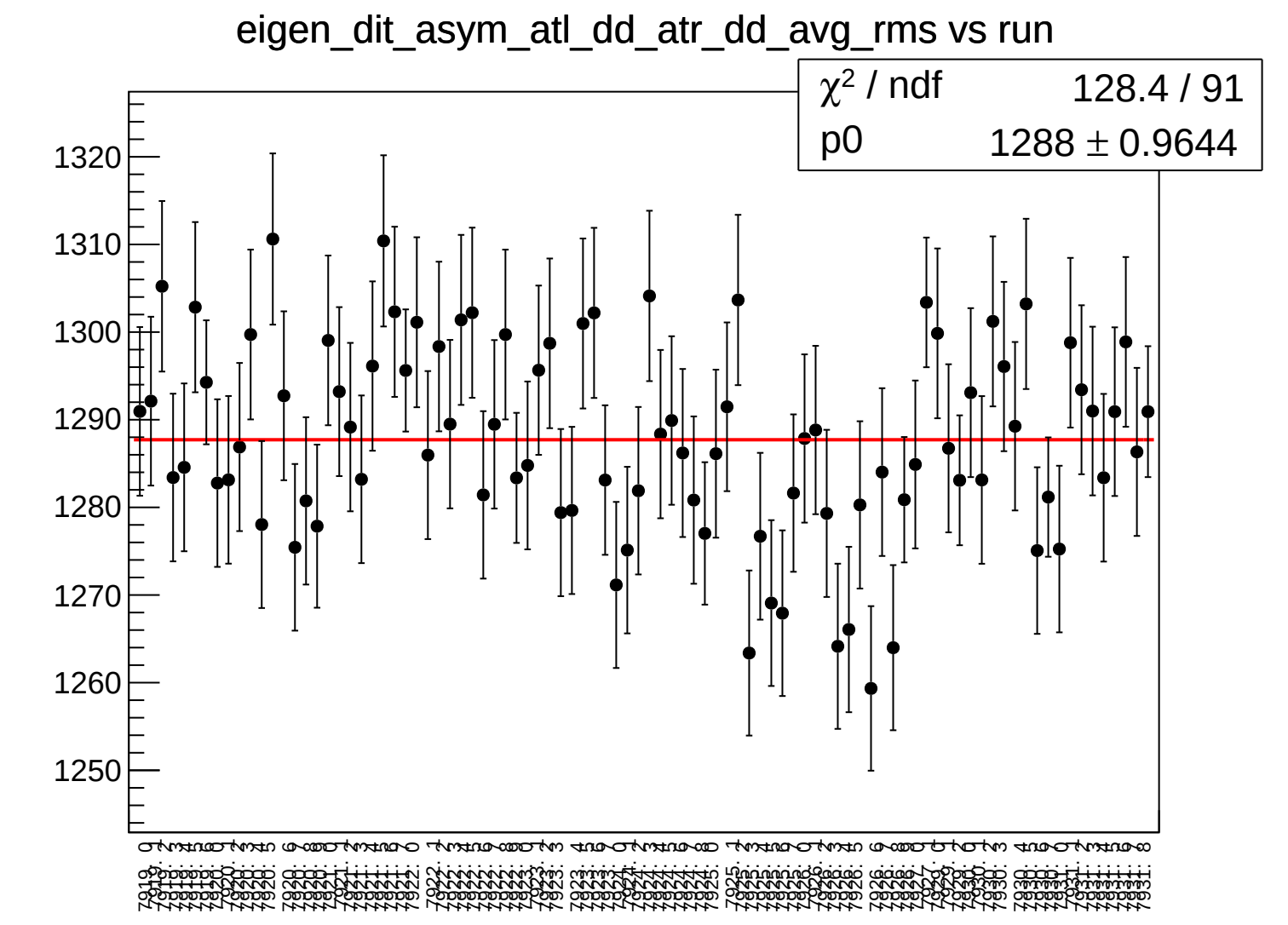

dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 128.4 / 91
p0 1288 ± 0.9644
1320
1310
1300
1290
1280
1270
1260
1250

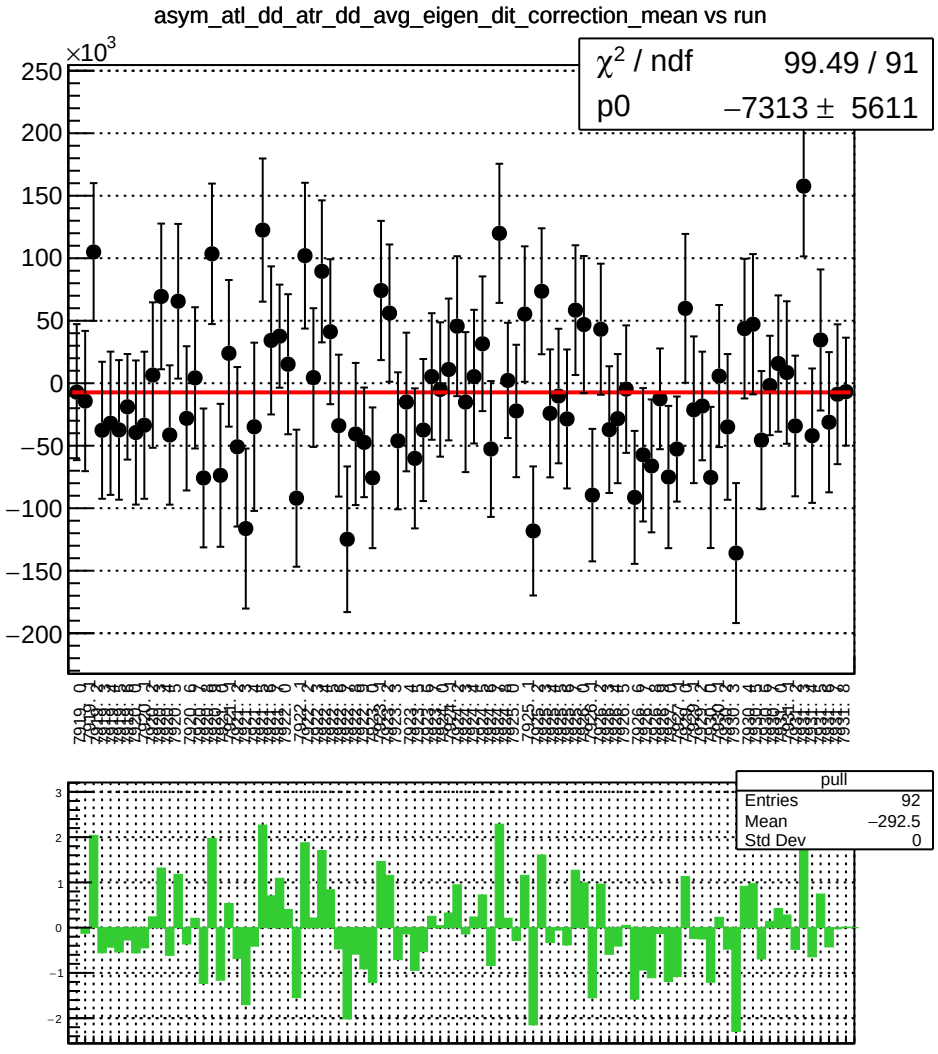

asym_atl_dd_atr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 99.49 / 91
p0 −7313 ± 5611
pull
Entries 92
Mean −292.5
Std Dev 0

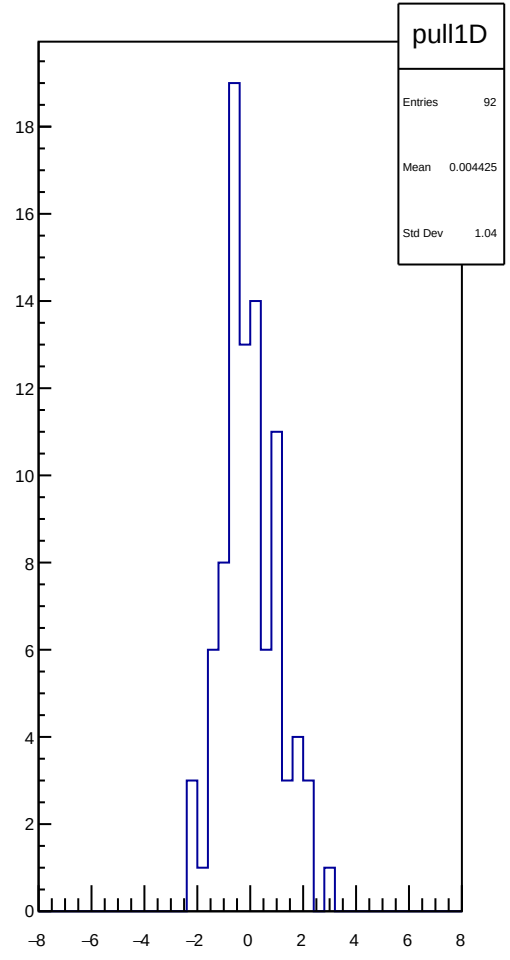

pull1D
Entries 92
Mean 0.004425
Std Dev 1.04

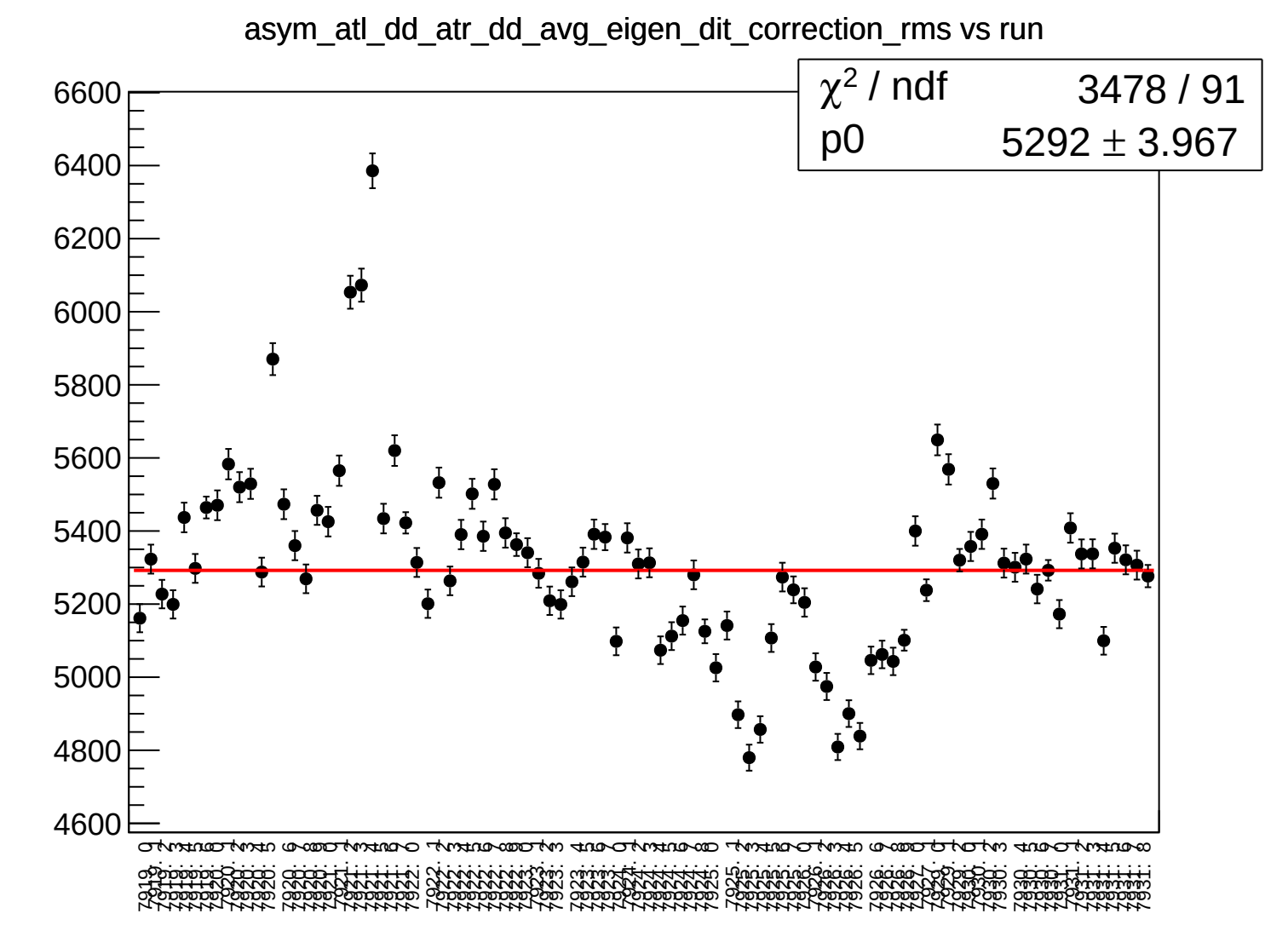

asym_atl_dd_atr_dd_avg_dit_correction_rms vs run
χ² / ndf 3478 / 91
p0 5292 ± 3.967
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800
4600

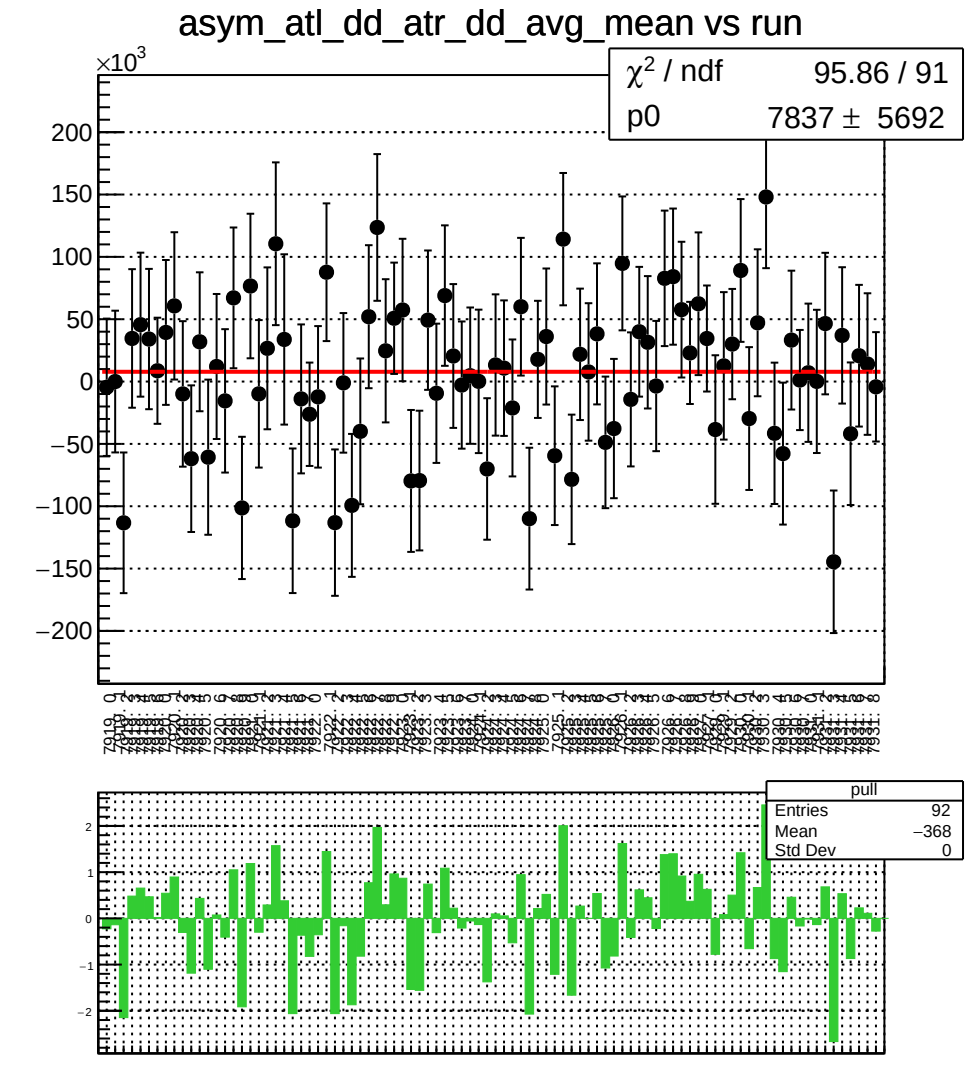

eigen_dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 81.6 / 91
p0 484.2 ± 1364
pull
Entries 92
Mean −1067
Std Dev 0
pull1D
Entries 92
Mean −0.002822
Std Dev 0.9418

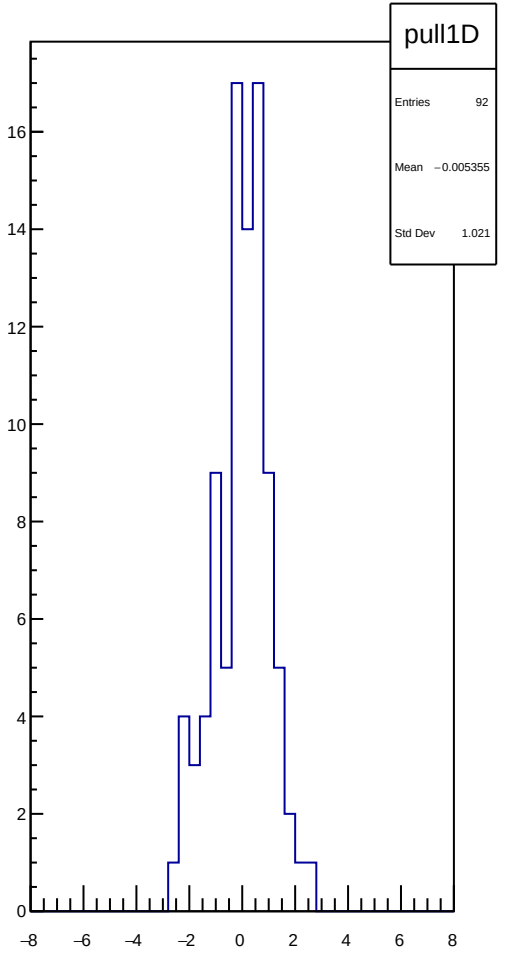

eigen_dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 128.4 / 91
p0 1288 ± 0.9644
1320
1310
1300
1290
1280
1270
1260
1250

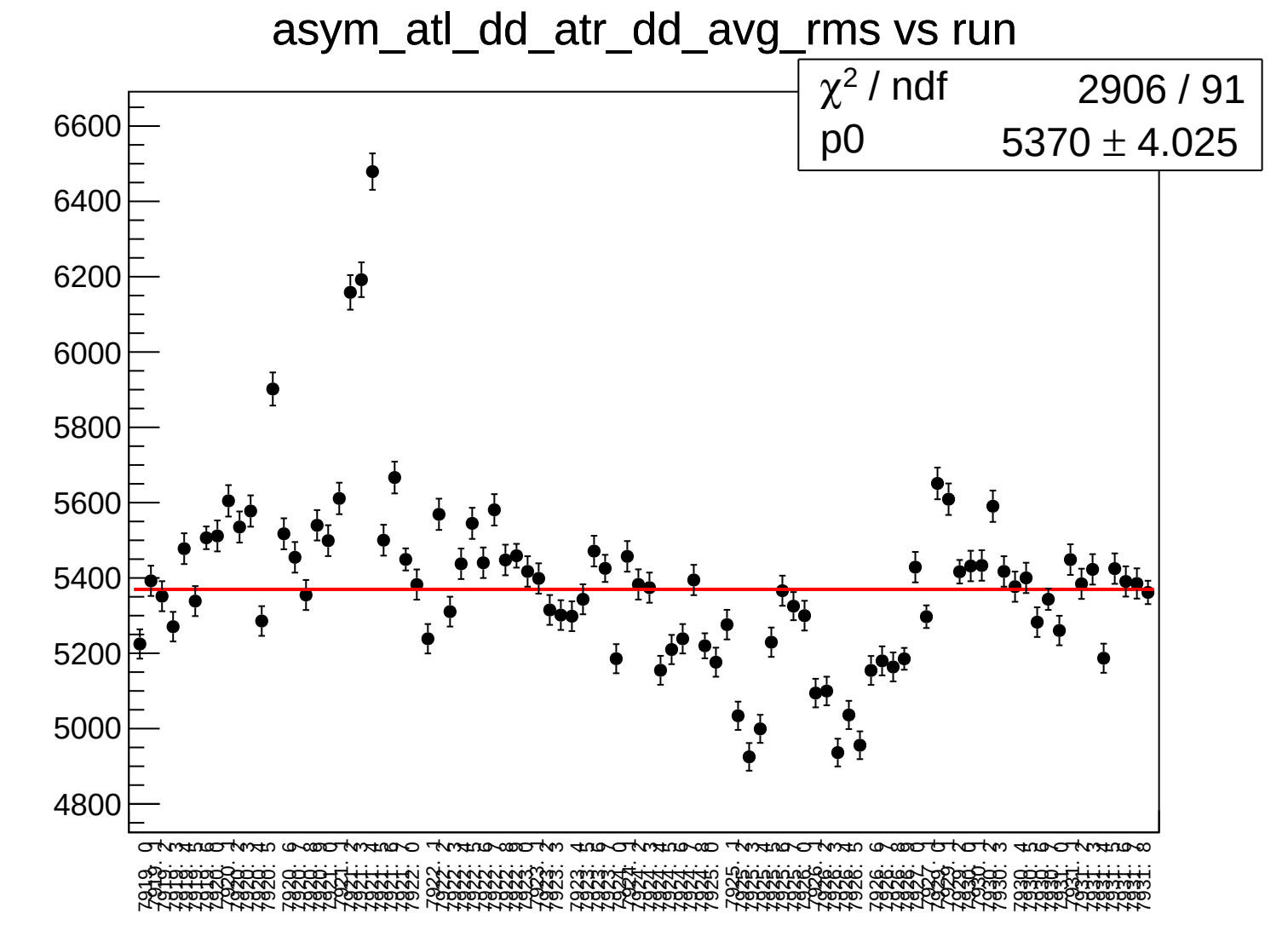

asym_atl_dd_atr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 99.49 / 91
p0 −7313 ± 5611
pull
Entries 92
Mean −292.5
Std Dev 0

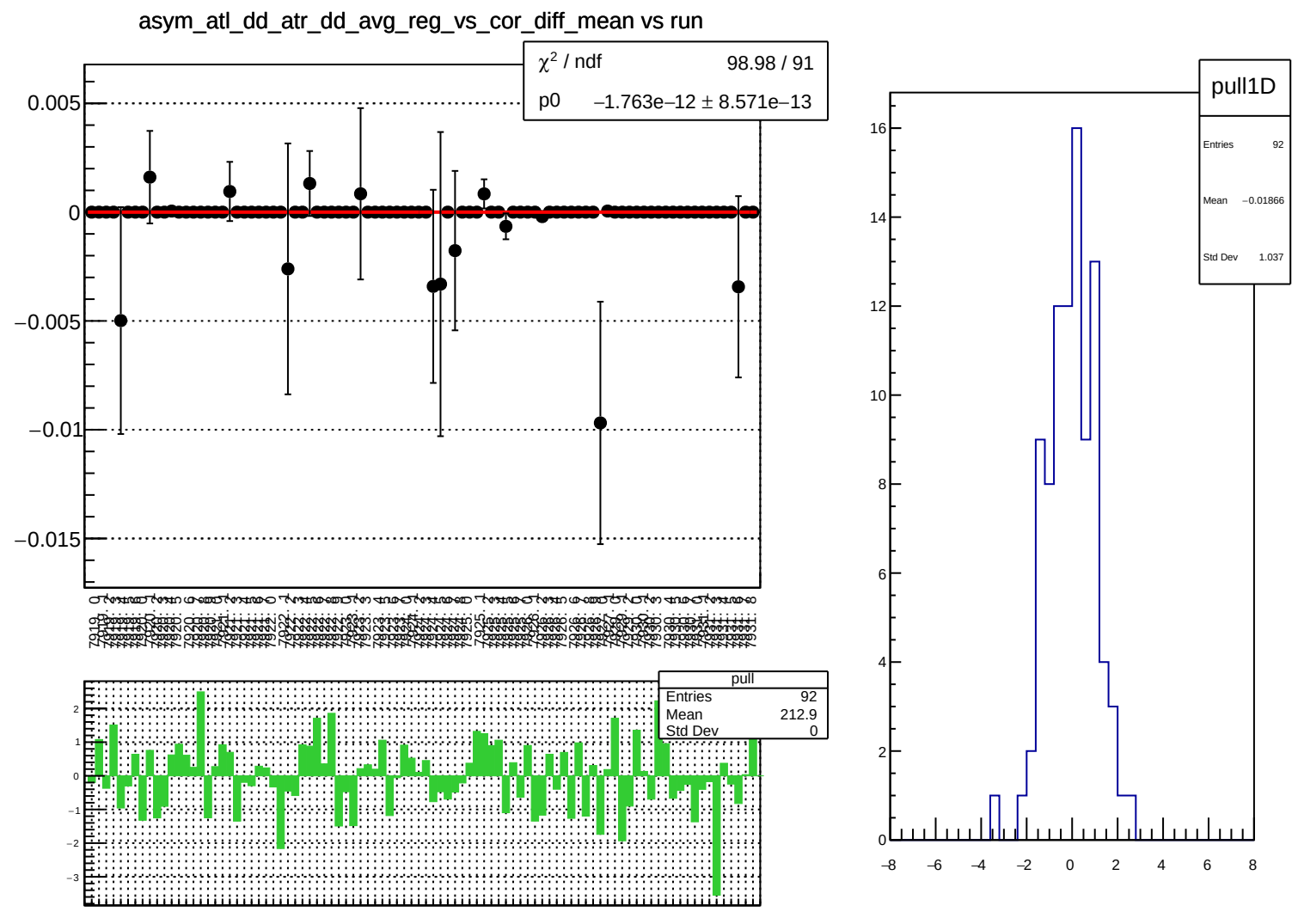

pull1D
Entries 92
Mean 0.004425
Std Dev 1.04

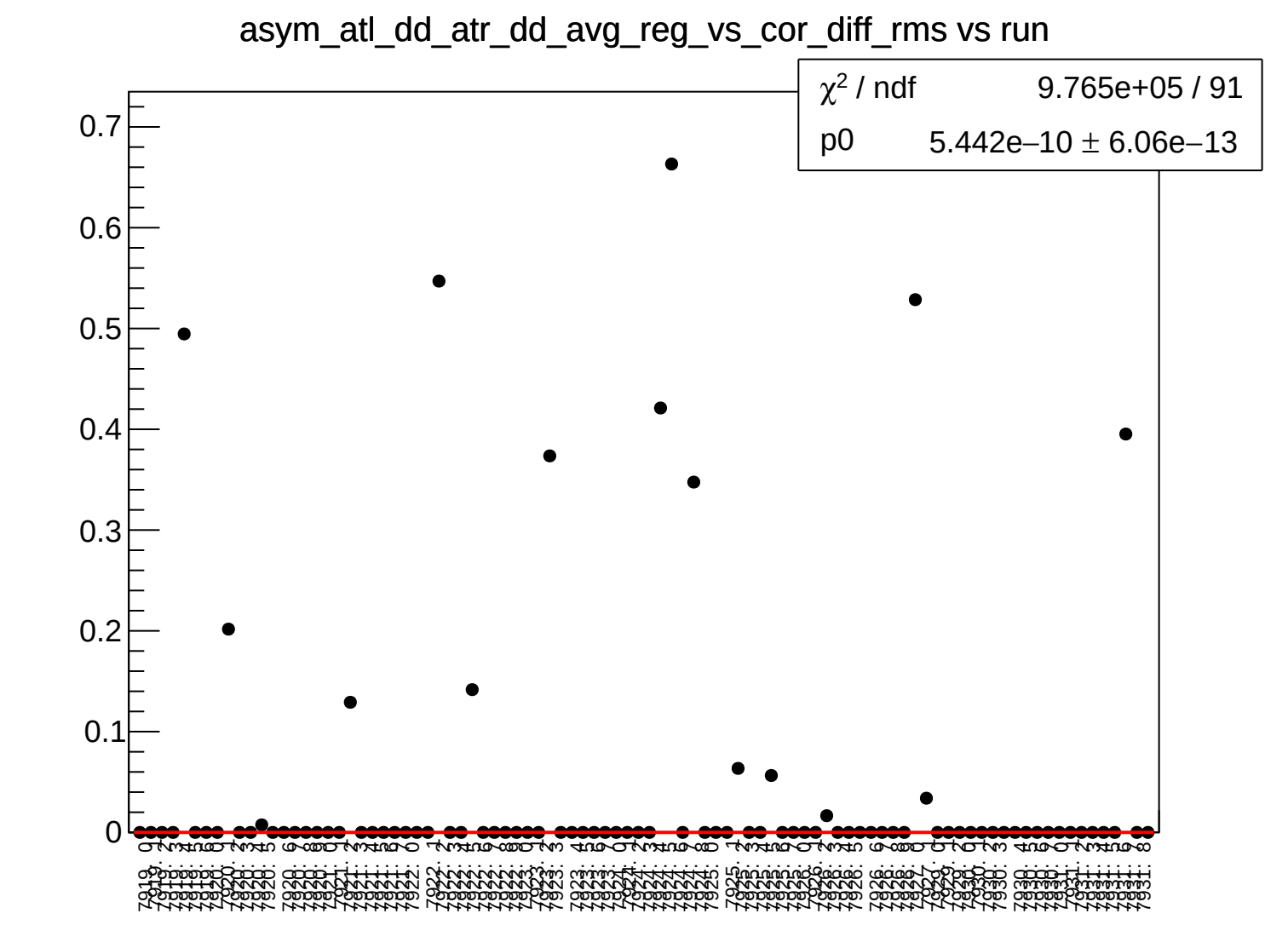

asym_atl_dd_atr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 3478 / 91
p0 5292 ± 3.967
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800
4600

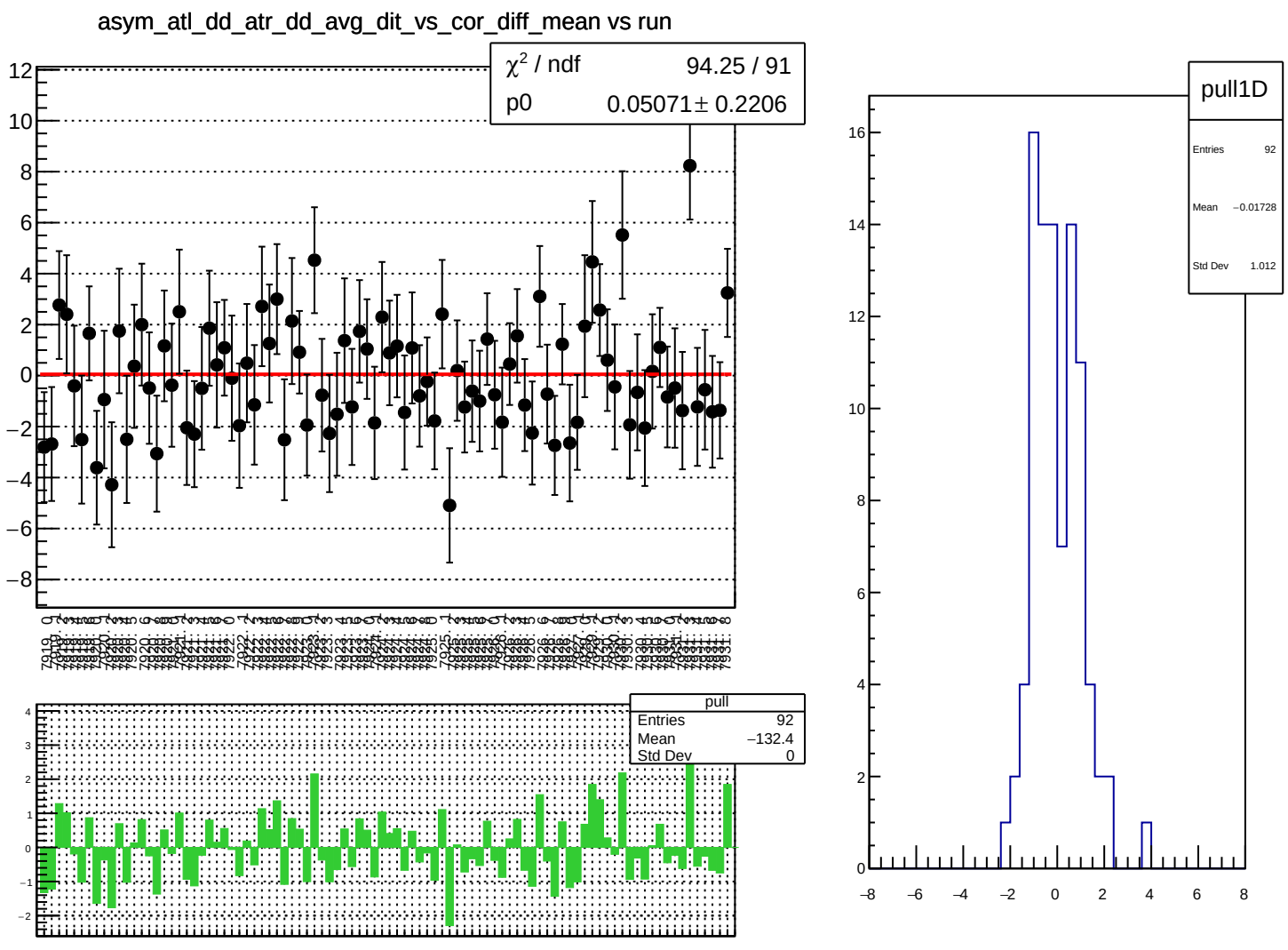

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 95.86 / 91
p0 7837 ± 5692
pull
Entries 92
Mean −368
Std Dev 0

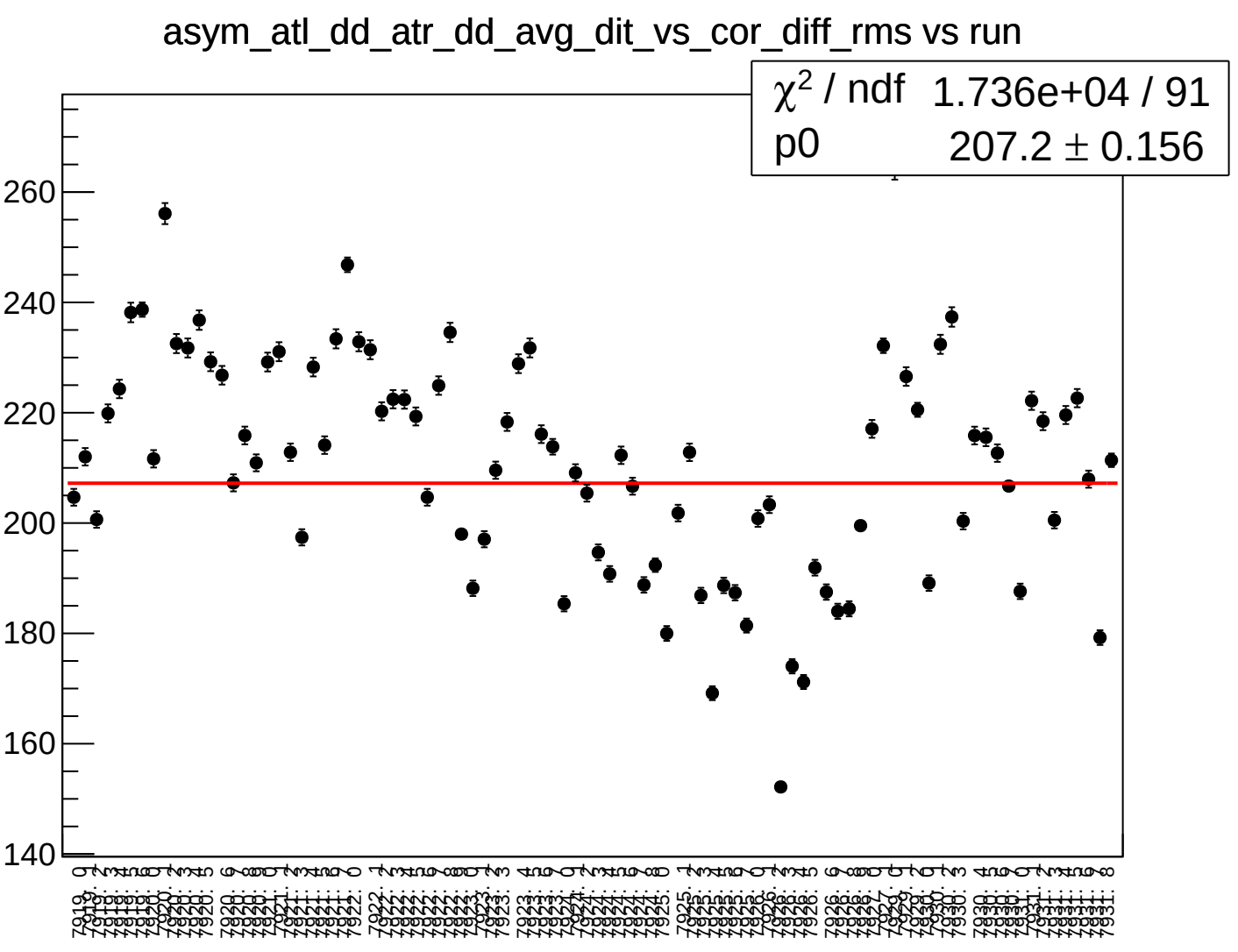

pull1D
Entries 92
Mean −0.005355
Std Dev 1.021

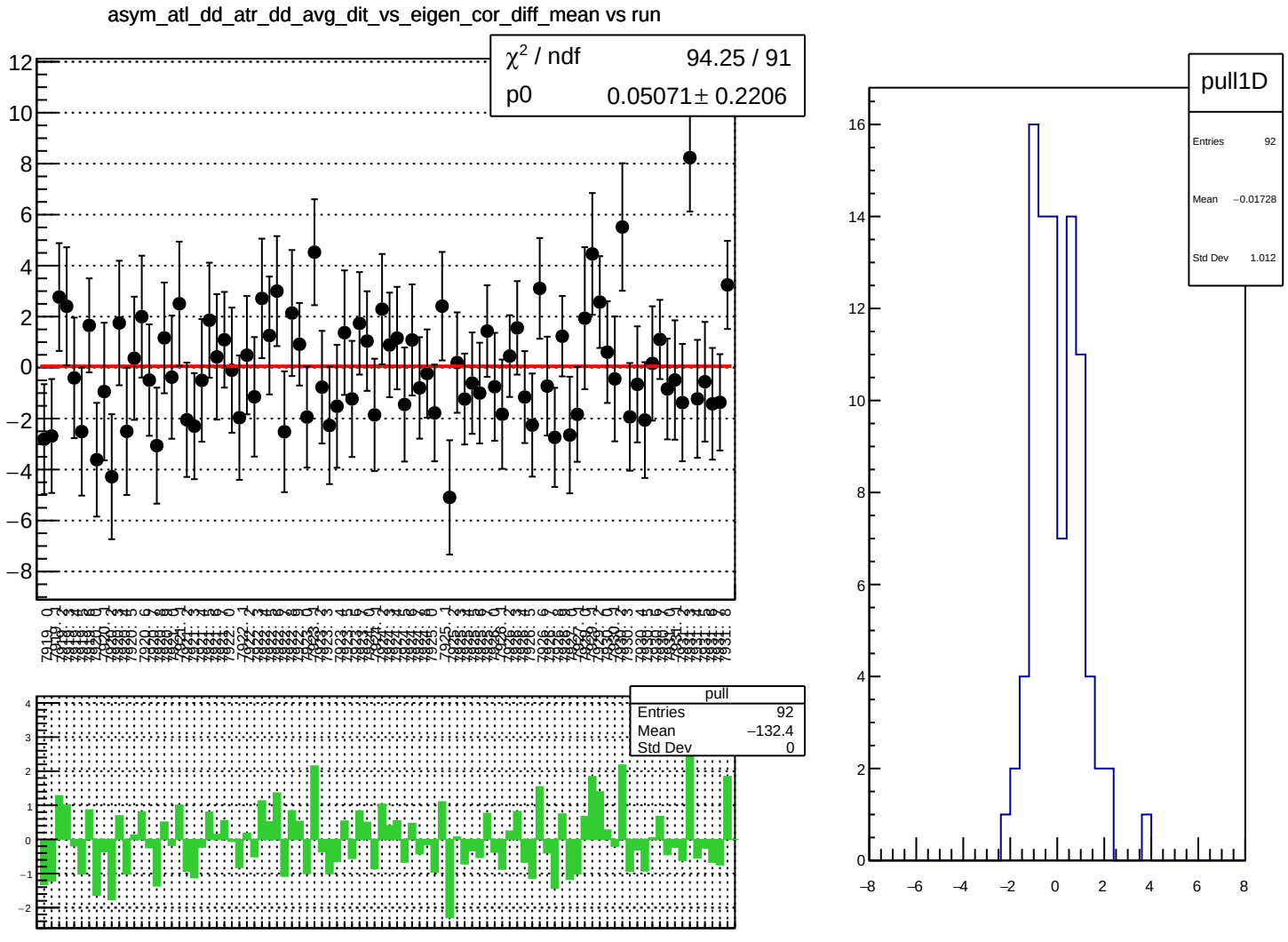

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 2906 / 91
p0 5370 ± 4.025
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800

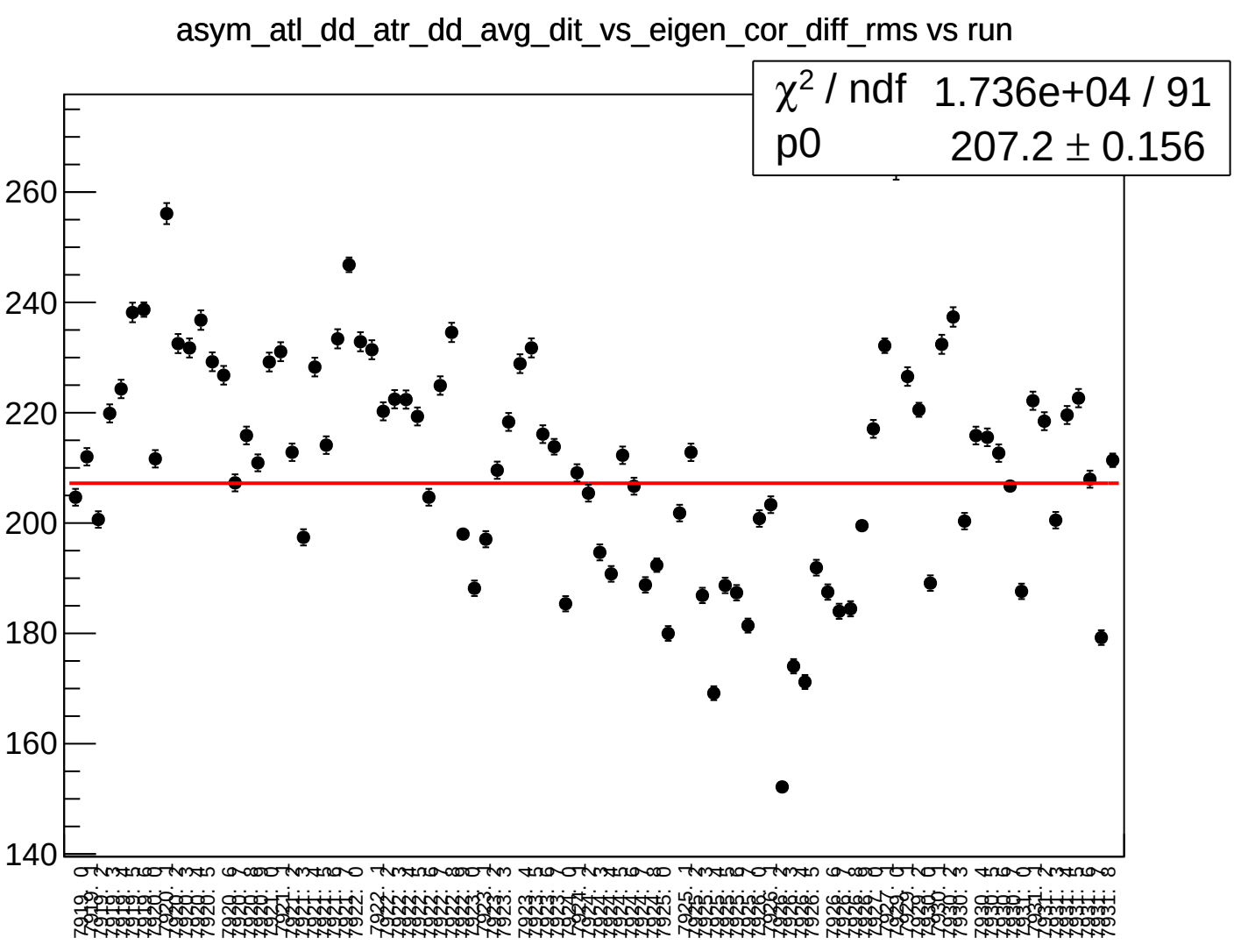

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 98.98 / 91
p0 −1.763e−12 ± 8.571e−13
0.005
0
−0.005
−0.01
−0.015
pull
Entries 92
Mean 212.9
Std Dev 0
pull1D
Entries 92
Mean −0.01866
Std Dev 1.037

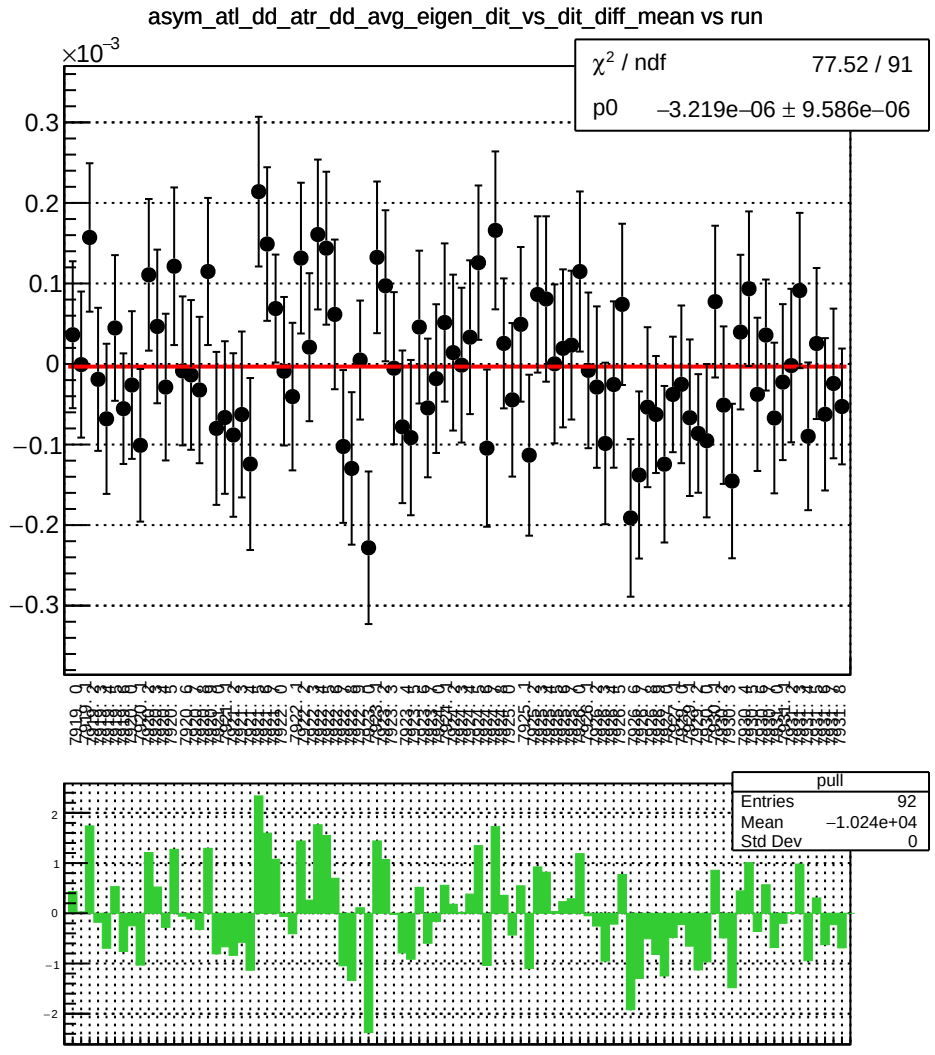

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.765e+05 / 91
p0 5.442e−10 ± 6.06e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

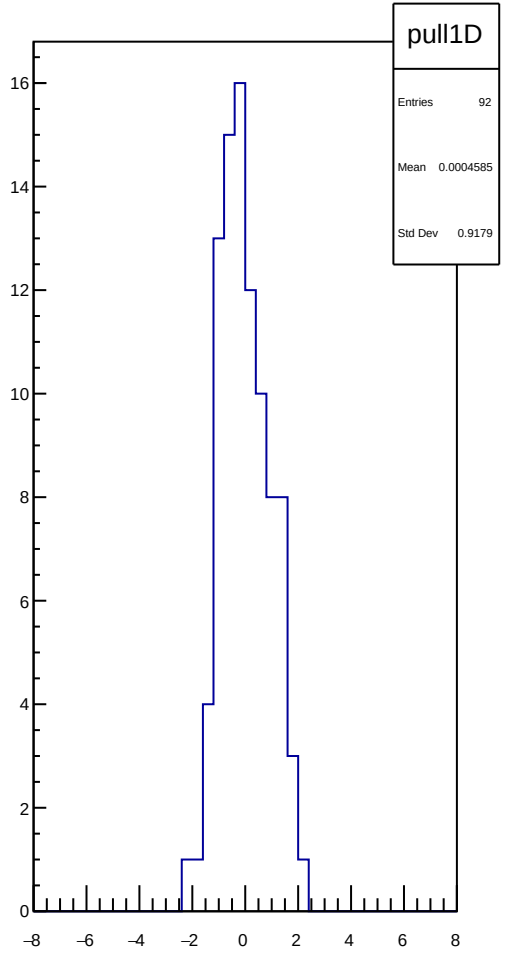

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 94.25 / 91
p0 0.05071 ± 0.2206
pull
Entries 92
Mean −132.4
Std Dev 0
pull1D
Entries 92
Mean −0.01728
Std Dev 1.012

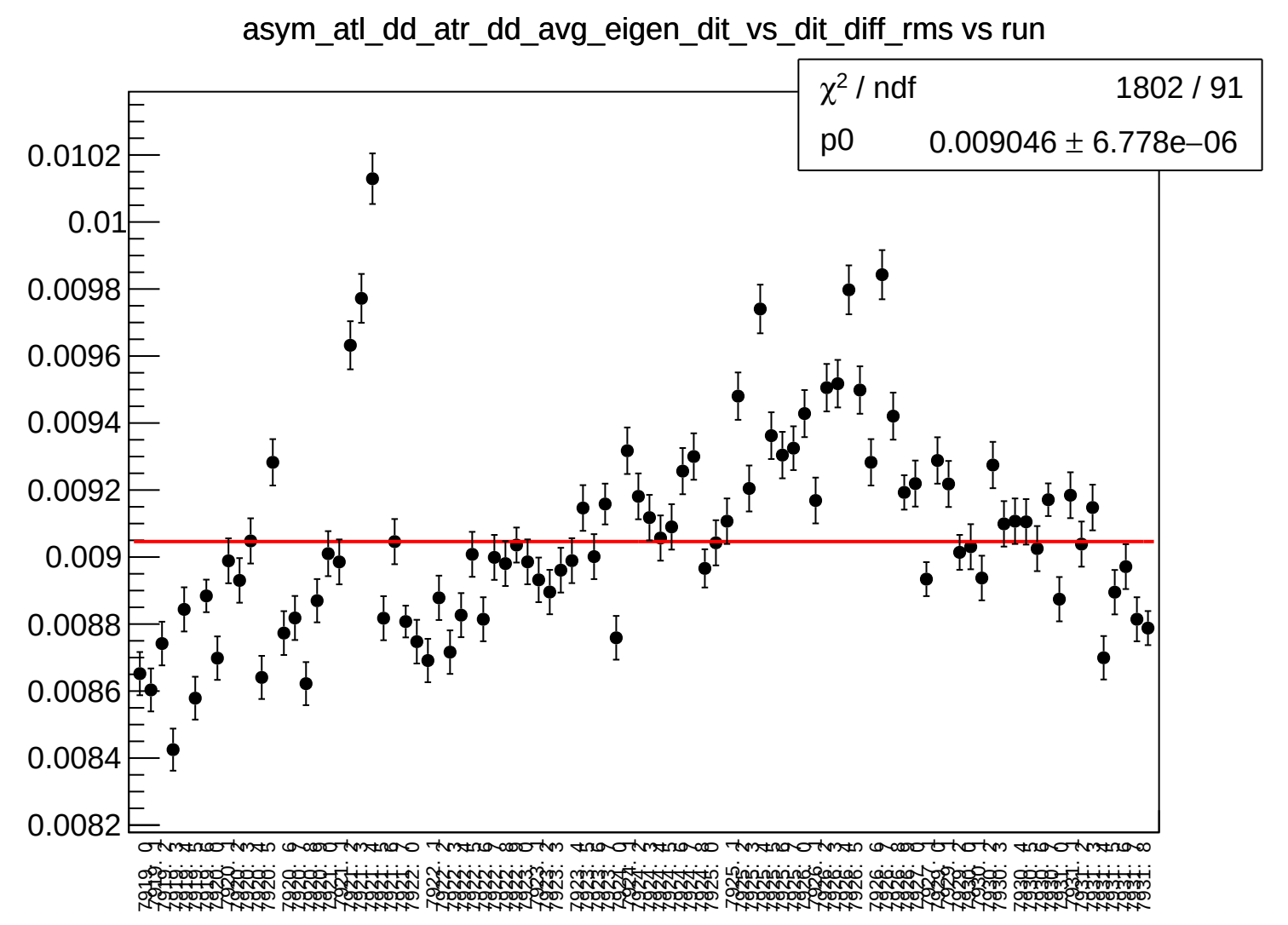

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.736e+04 / 91
p0 207.2 ± 0.156
260
240
220
200
180
160
140

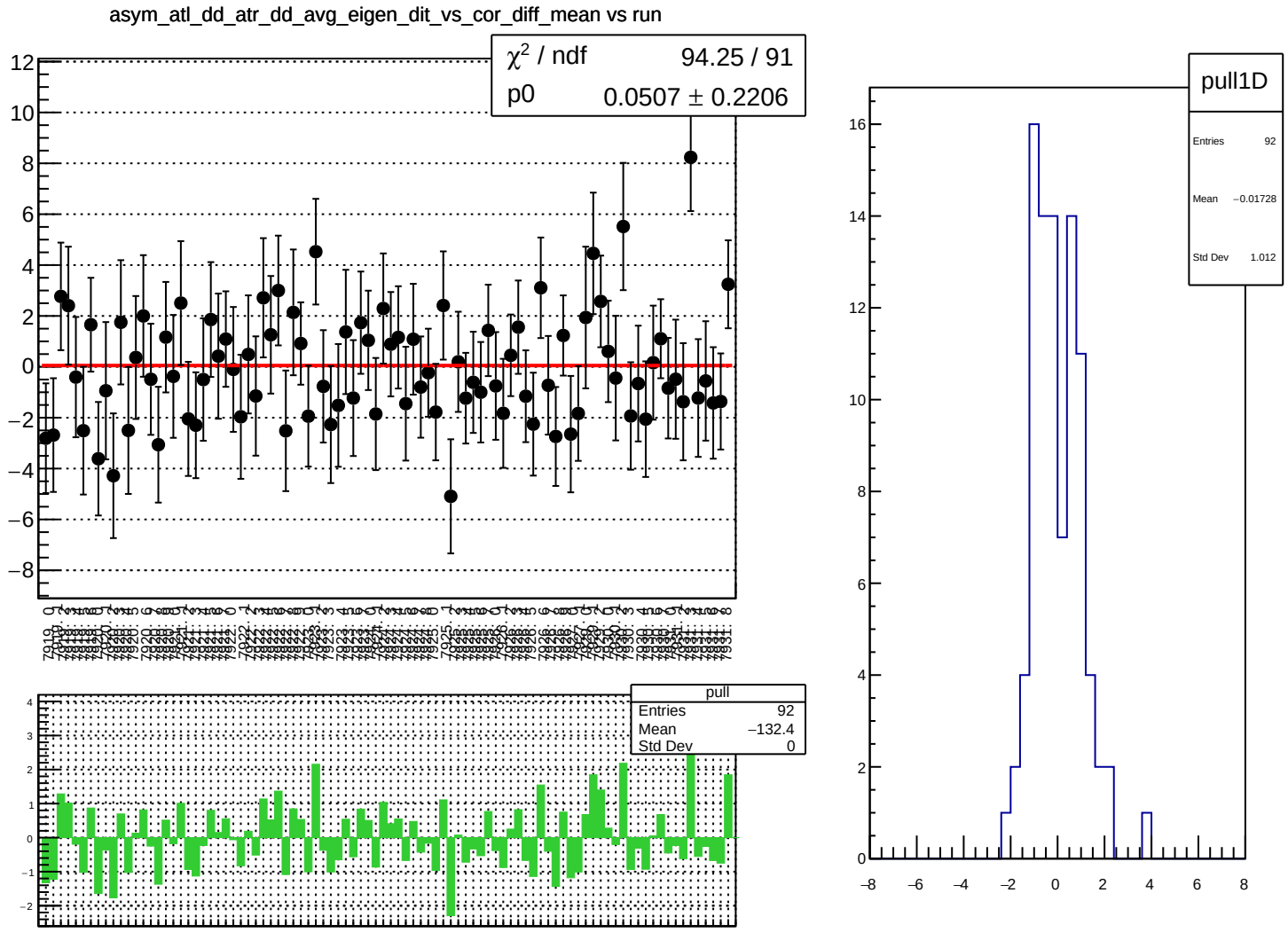

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.25 / 91
p0 0.05071 ± 0.2206
pull
Entries 92
Mean −132.4
Std Dev 0
pull1D
Entries 92
Mean −0.01728
Std Dev 1.012

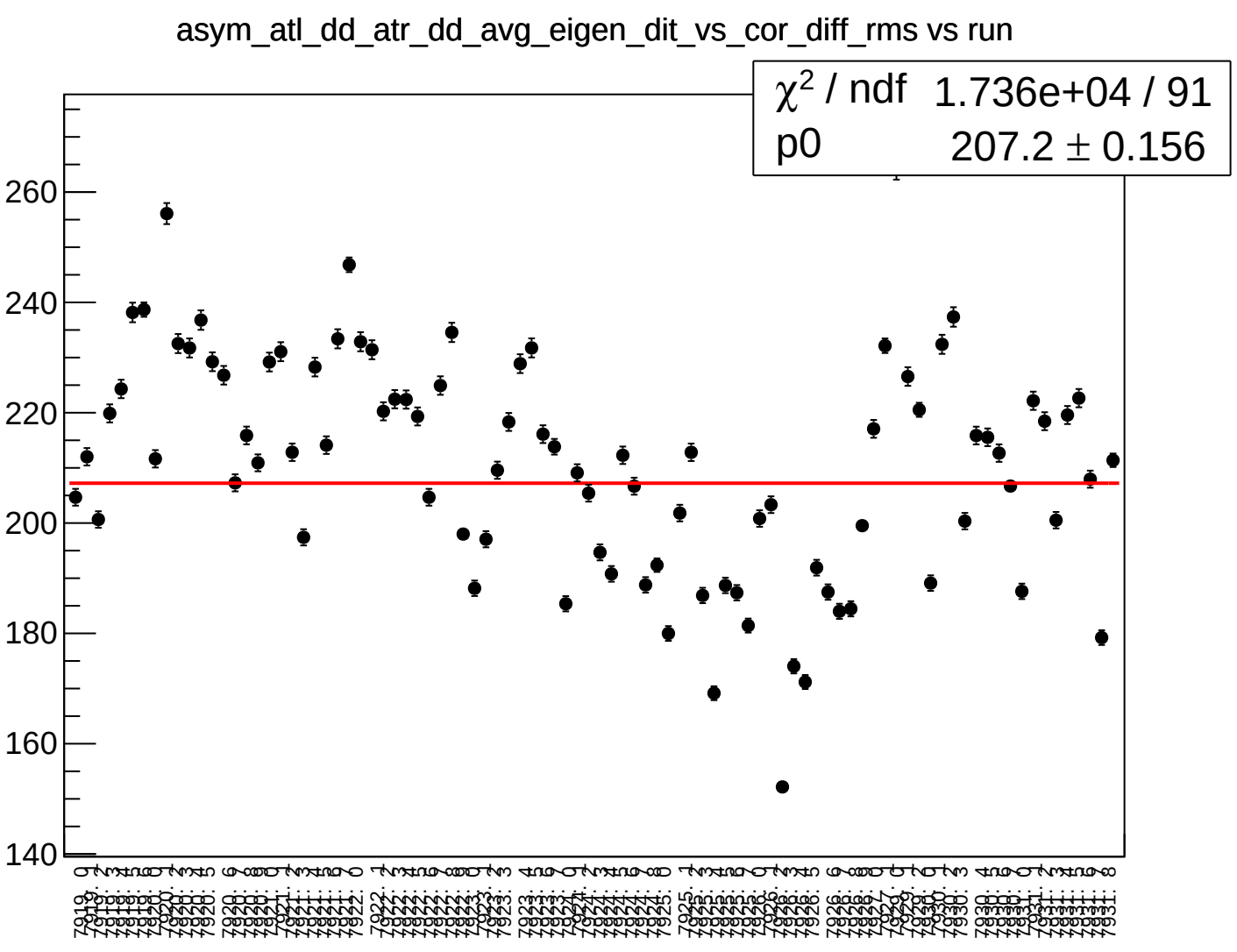

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.736e+04 / 91
p0 207.2 ± 0.156
260
240
220
200
180
160
140

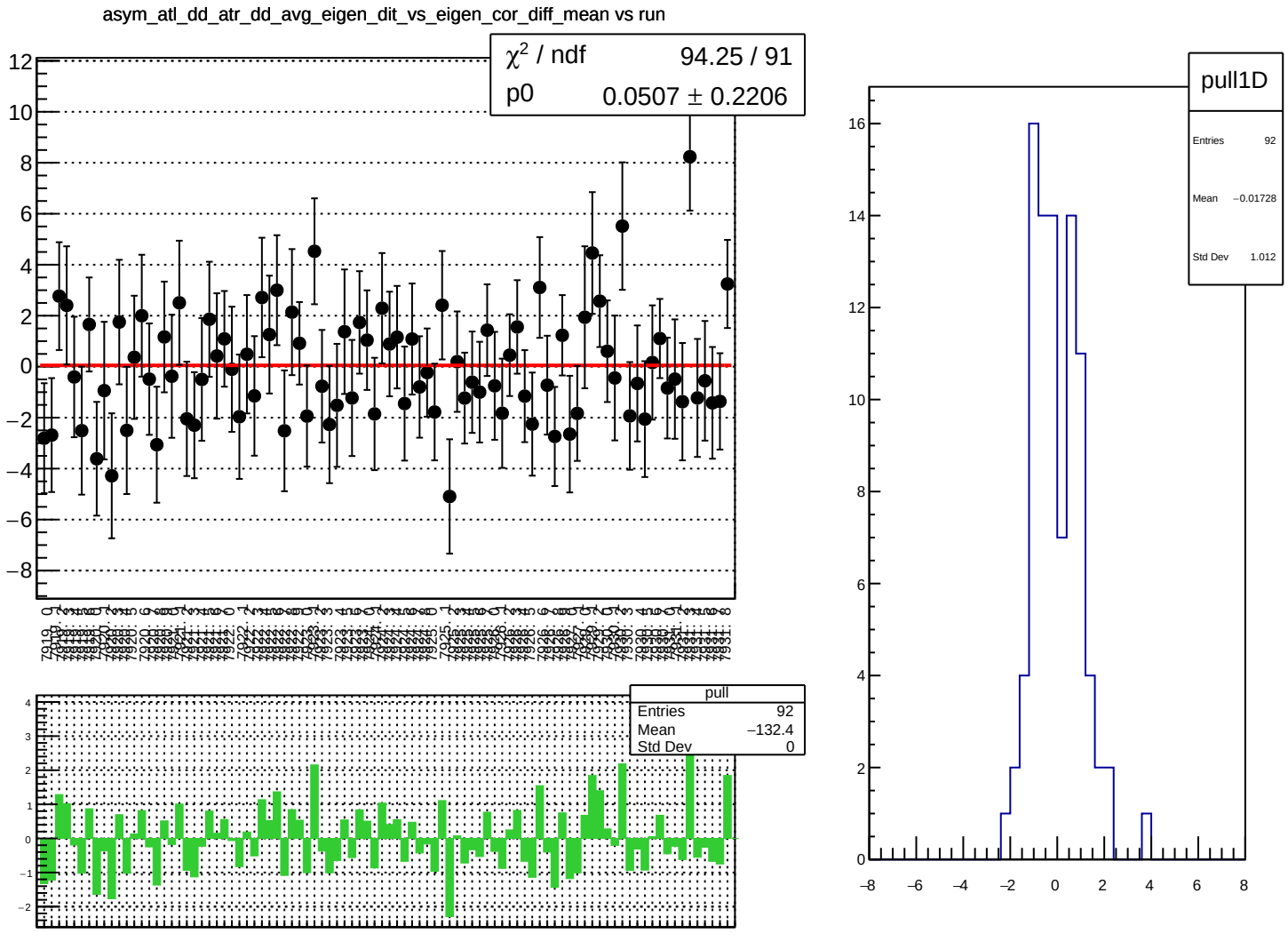

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 77.52 / 91
p0 −3.219e−06 ± 9.586e−06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 92
Mean −1.024e+04
Std Dev 0
2
1
0
−1
−2

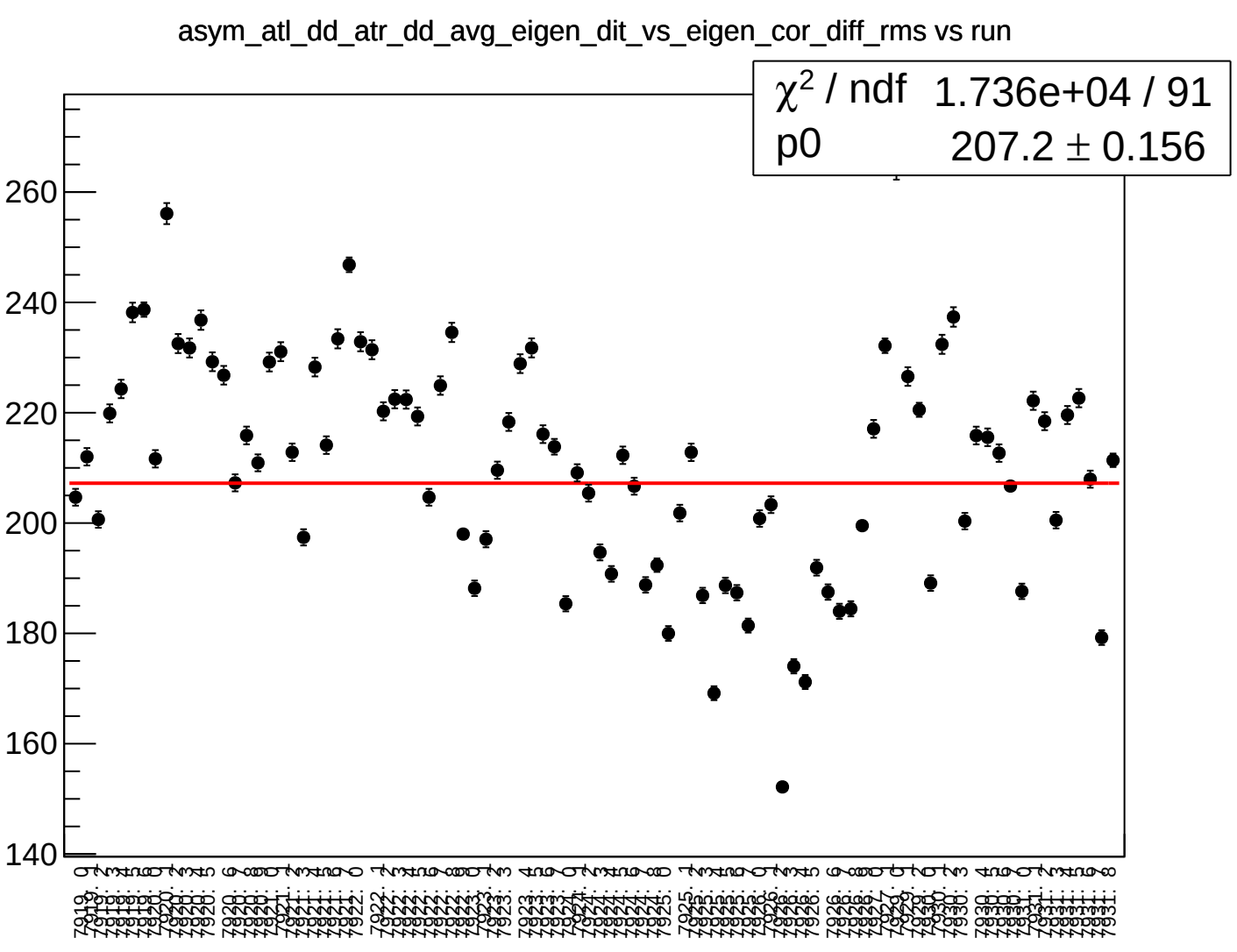

pull1D
Entries 92
Mean 0.0004585
Std Dev 0.9179
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

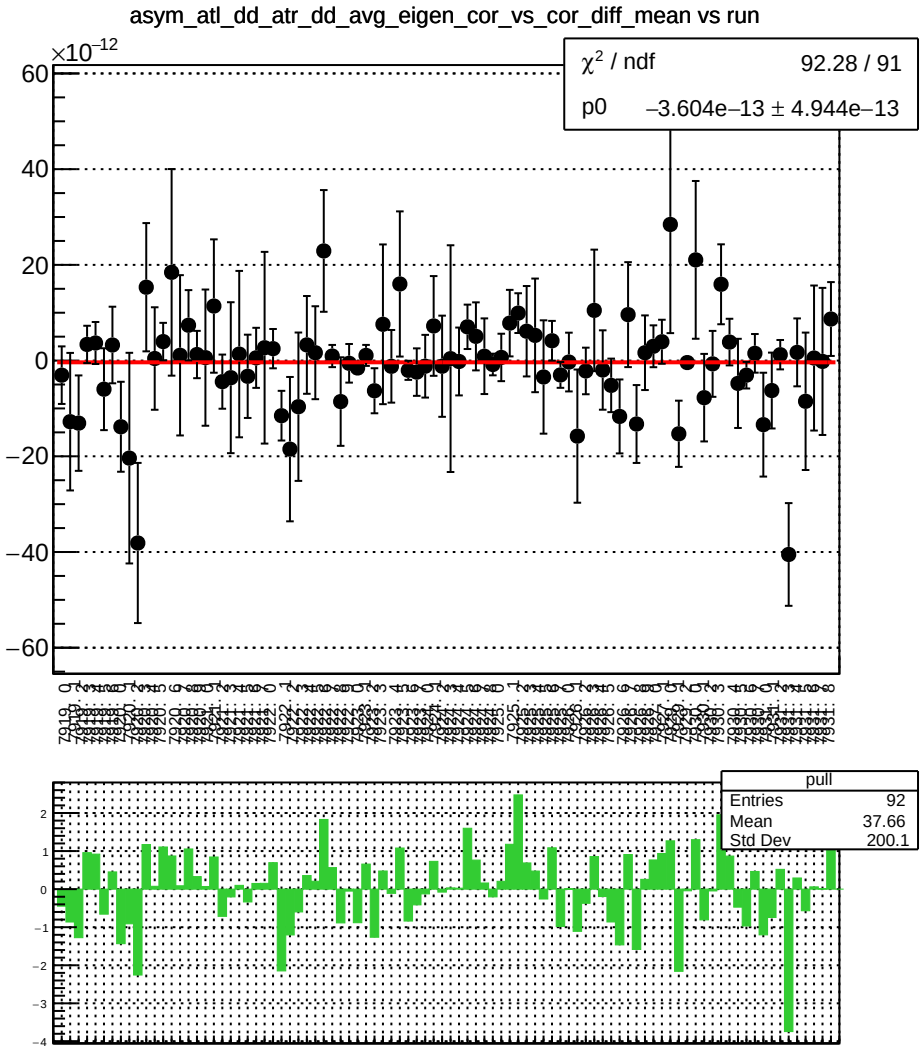

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1802 / 91
p0 0.009046 ± 6.778e−06
0.0102
0.01
0.0098
0.0096
0.0094
0.0092
0.009
0.0088
0.0086
0.0084
0.0082

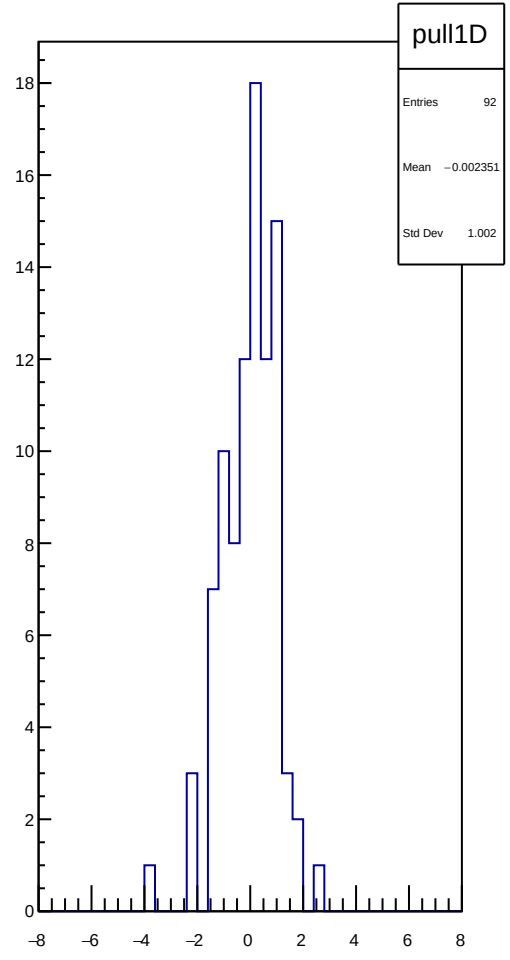

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.25 / 91
p0 0.0507 ± 0.2206
pull
Entries 92
Mean −132.4
Std Dev 0
pull1D
Entries 92
Mean −0.01728
Std Dev 1.012

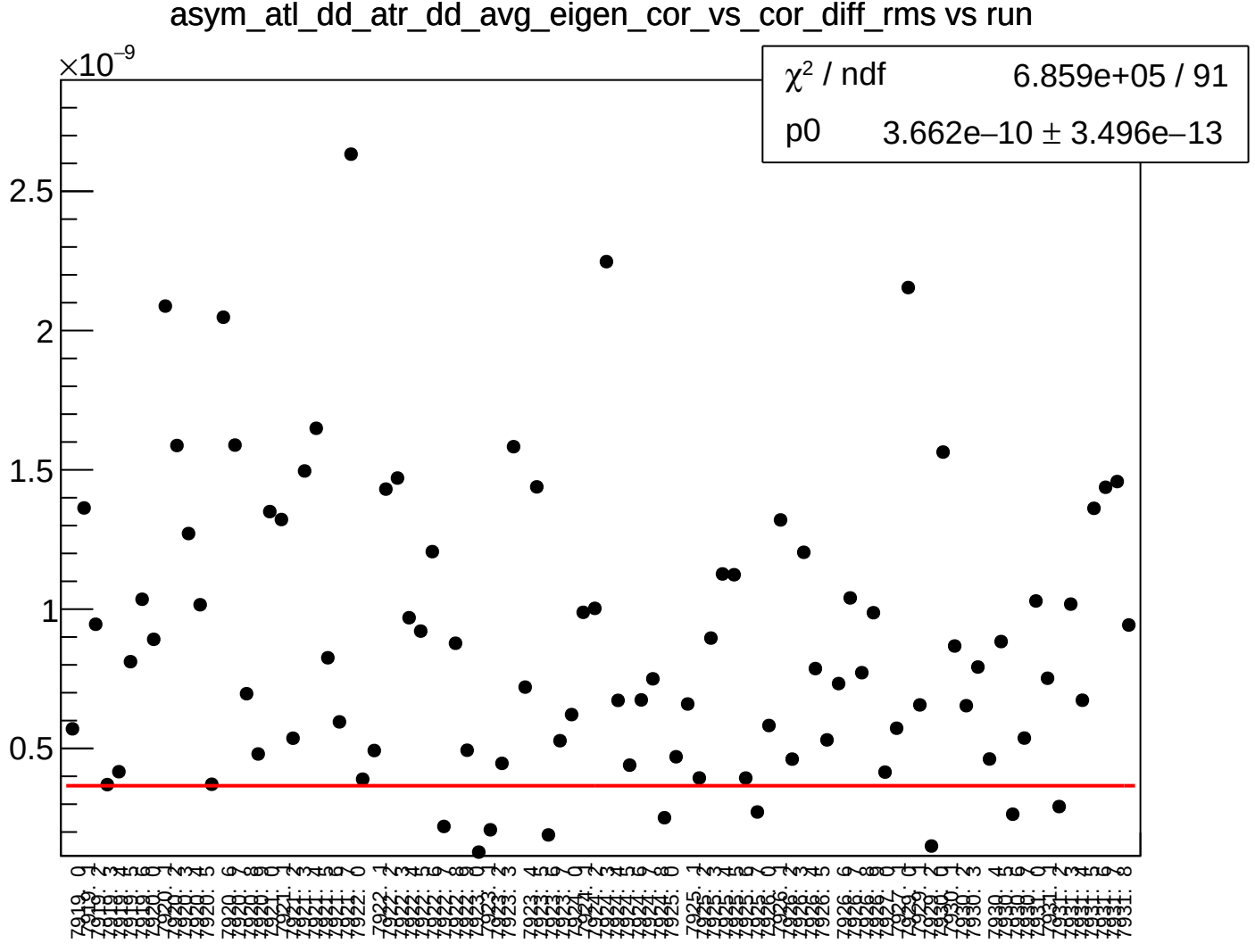

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.736e+04 / 91
p0 207.2 ± 0.156
260
240
220
200
180
160
140

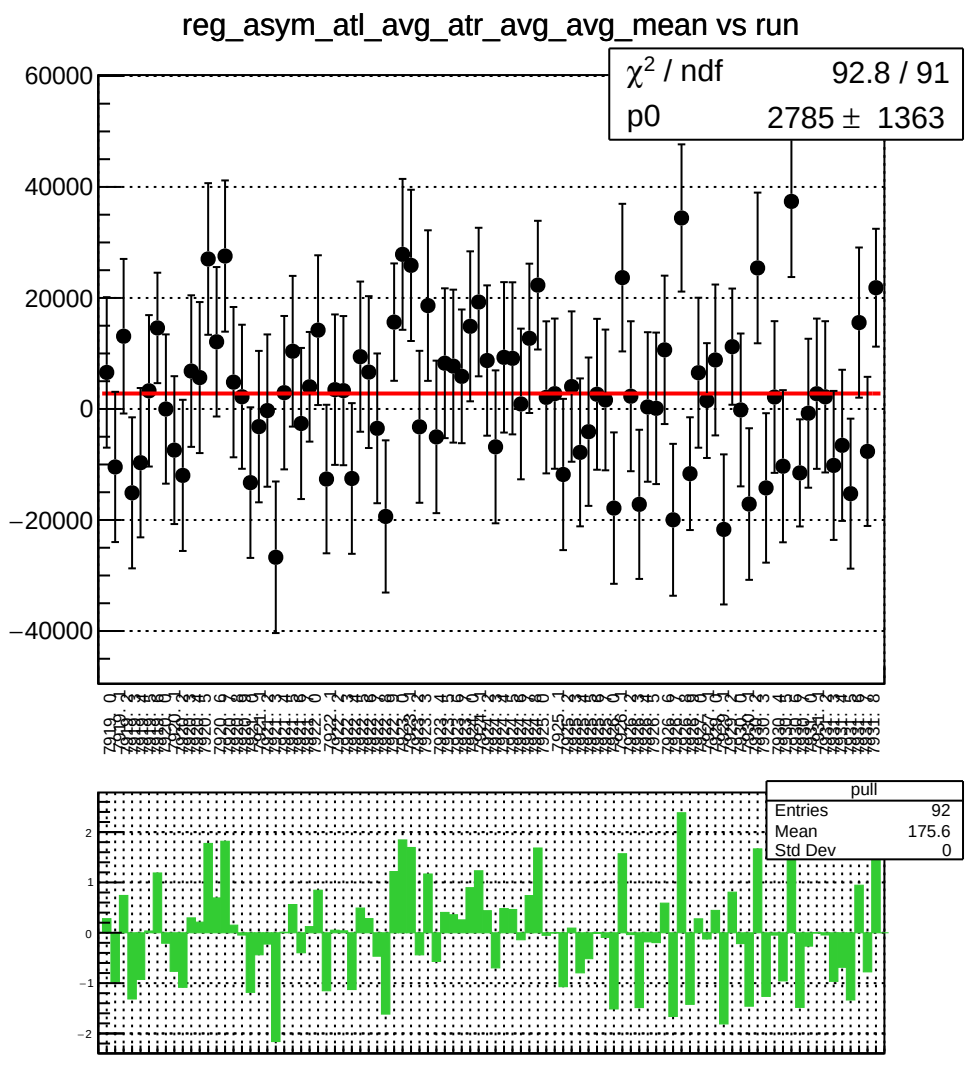

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.25 / 91
p0 0.0507 ± 0.2206
pull
Entries 92
Mean −132.4
Std Dev 0
pull1D
Entries 92
Mean −0.01728
Std Dev 1.012

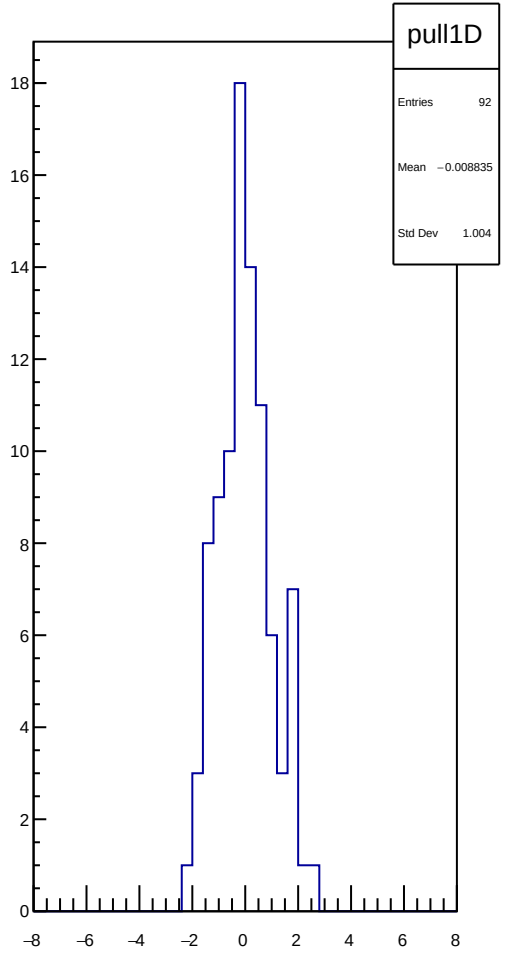

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.736e+04 / 91
p0 207.2 ± 0.156
260
240
220
200
180
160
140

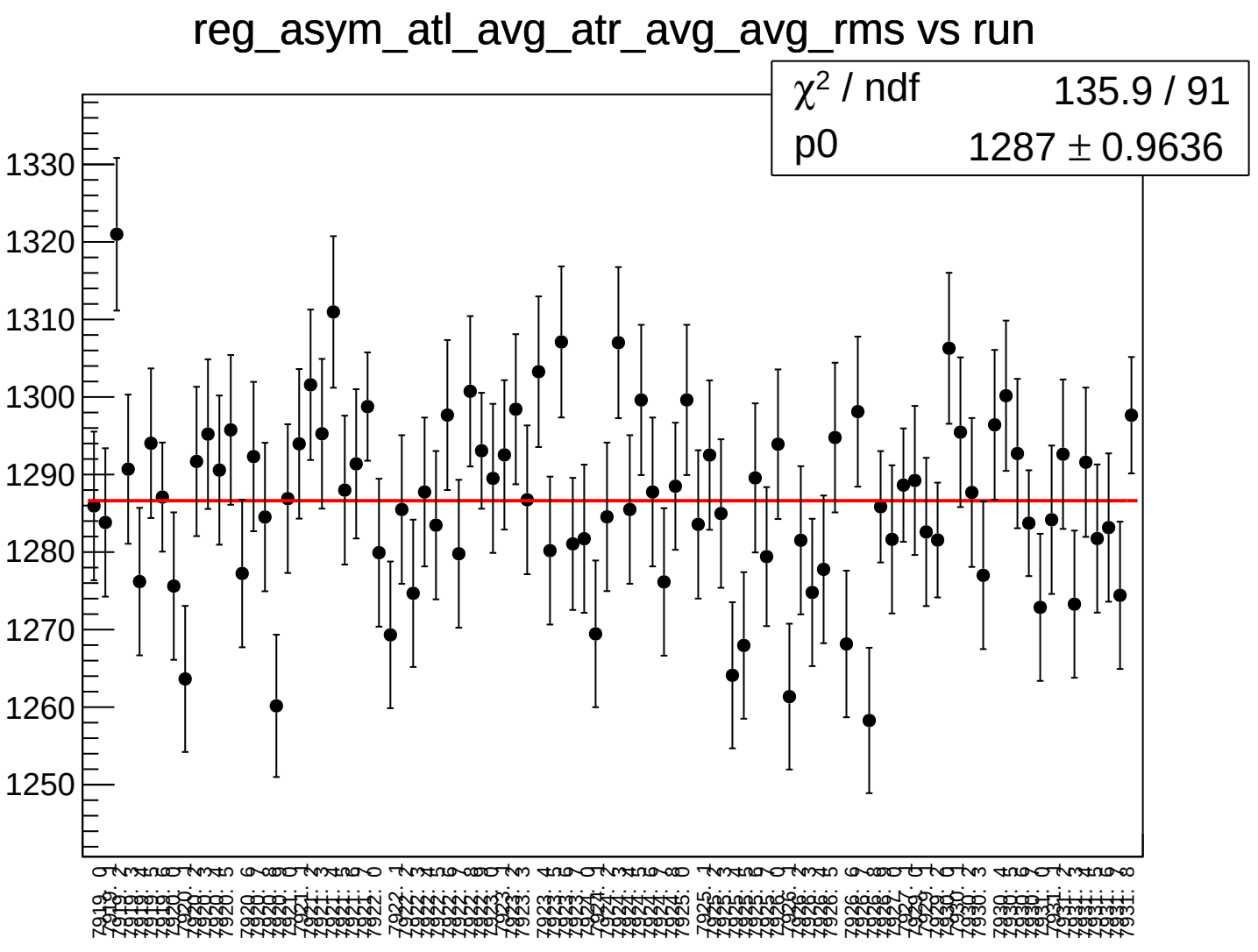

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.28 / 91
p0 −3.604e−13 ± 4.944e−13
pull
Entries 92
Mean 37.66
Std Dev 200.1

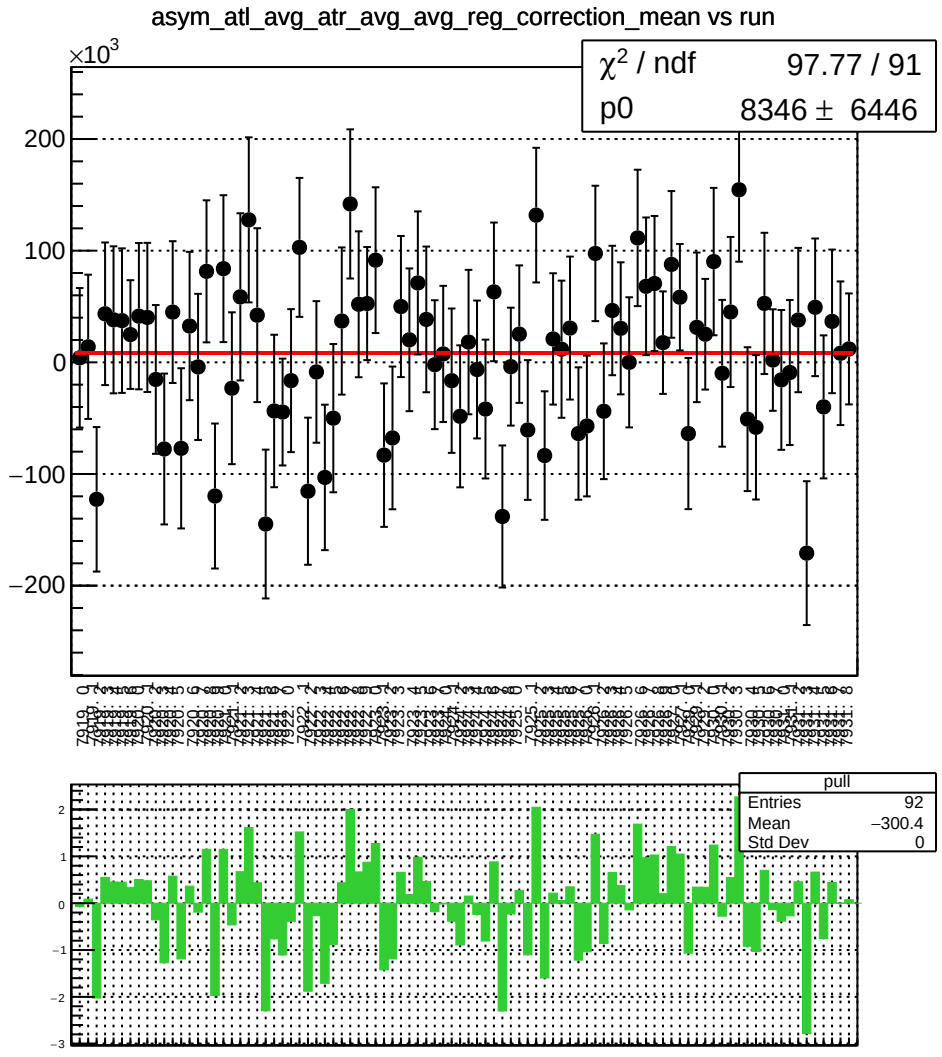

pull1D
Entries 92
Mean −0.002351
Std Dev 1.002

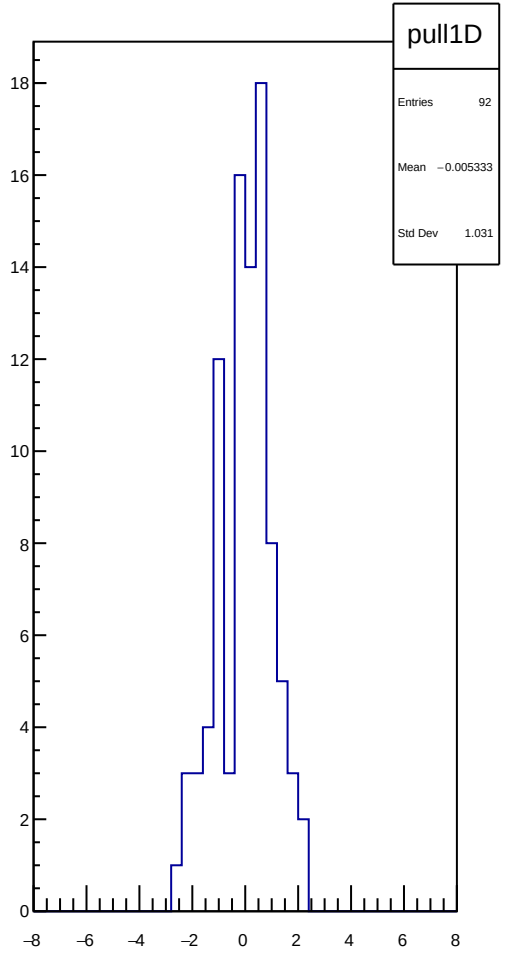

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.859e+05 / 91
p0 3.662e−10 ± 3.496e−13
2.5
2
1.5
1
0.5

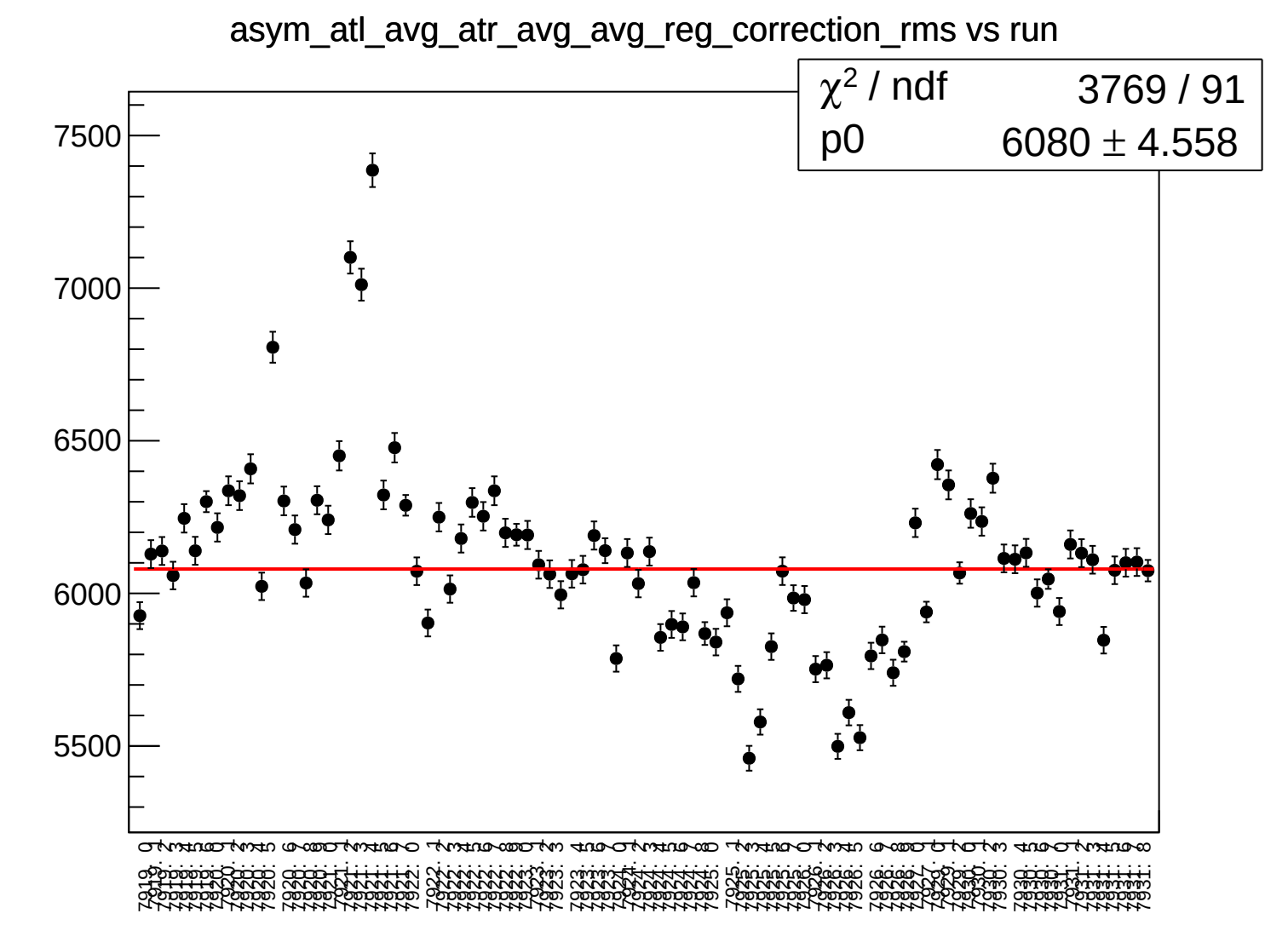

reg_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 92.8 / 91
p0 2785 ± 1363
60000
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 175.6
Std Dev 0
2
1
0
−1
−2

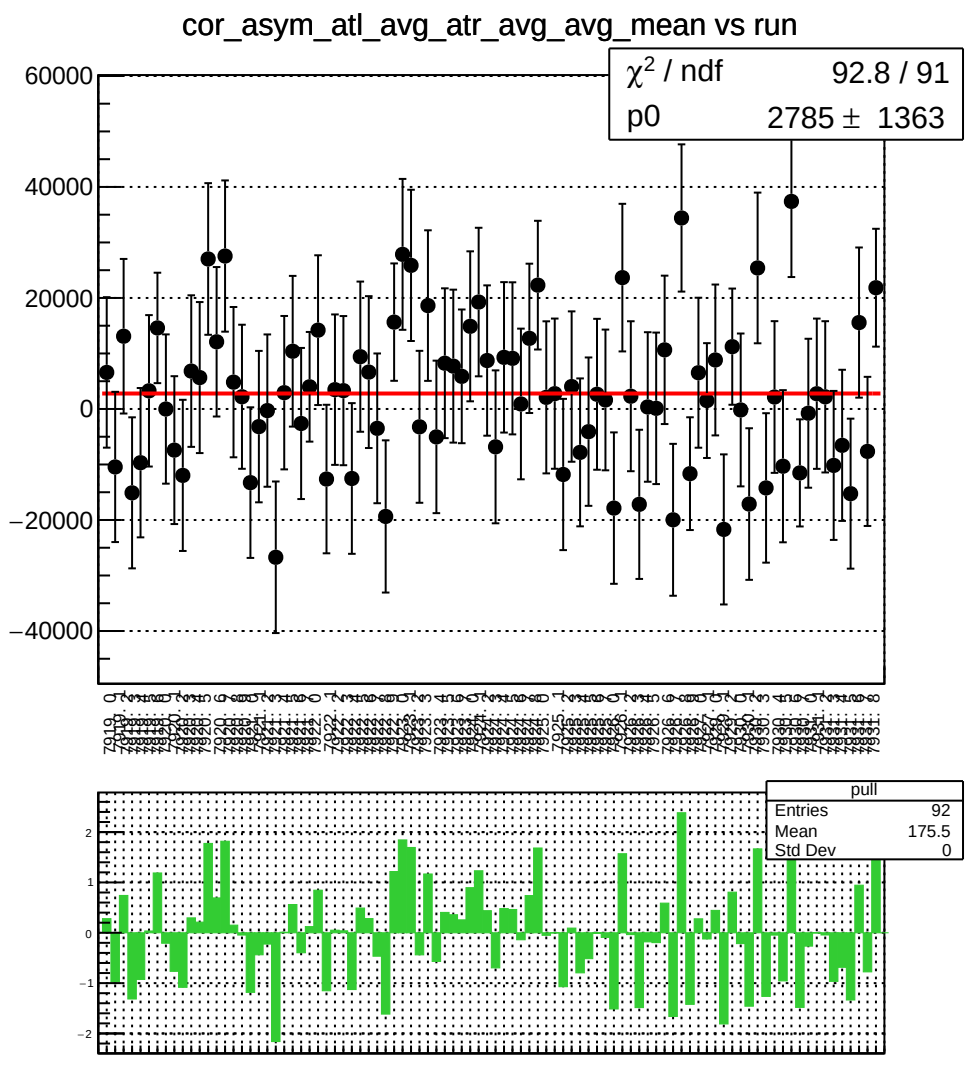

pull1D
Entries 92
Mean −0.008835
Std Dev 1.004
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

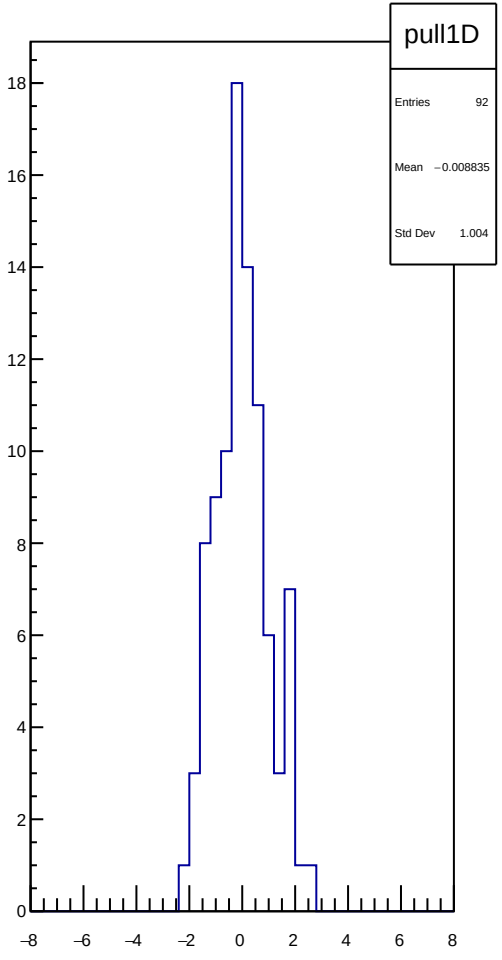

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 135.9 / 91
p0 1287 ± 0.9636
1330
1320
1310
1300
1290
1280
1270
1260
1250

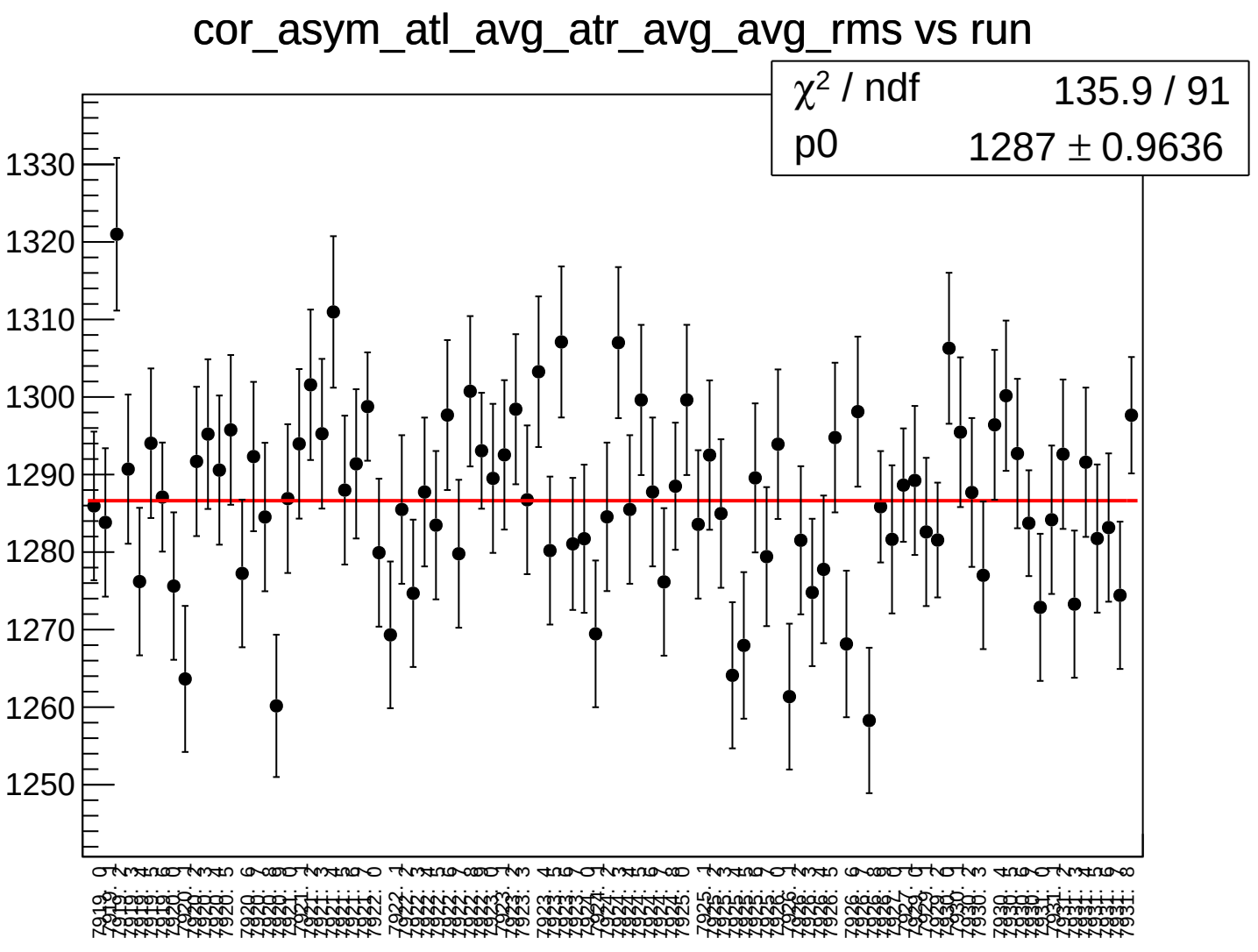

asym_atl_avg_atr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 97.77 / 91
p0 8346 ± 6446
200
100
0
−100
−200
pull
Entries 92
Mean −300.4
Std Dev 0
2
1
0
−1
−2
−3

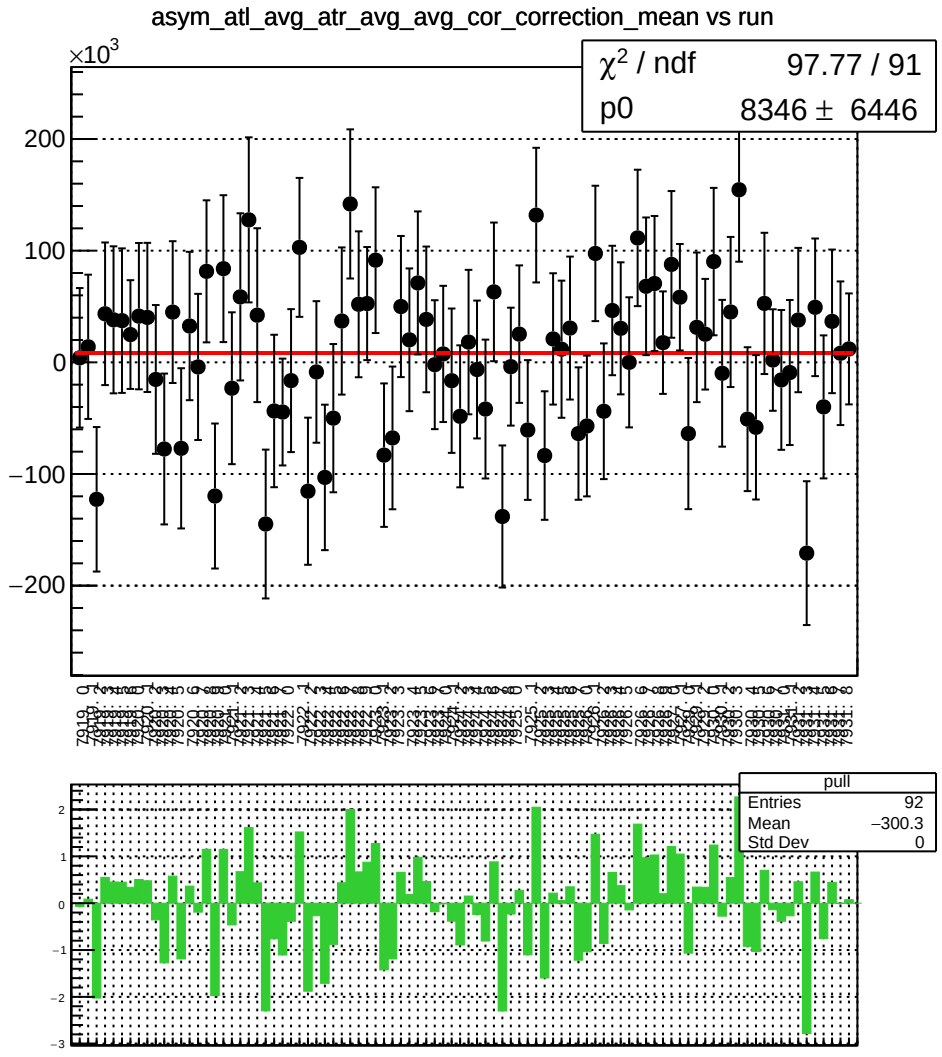

pull1D
Entries 92
Mean −0.005333
Std Dev 1.031
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

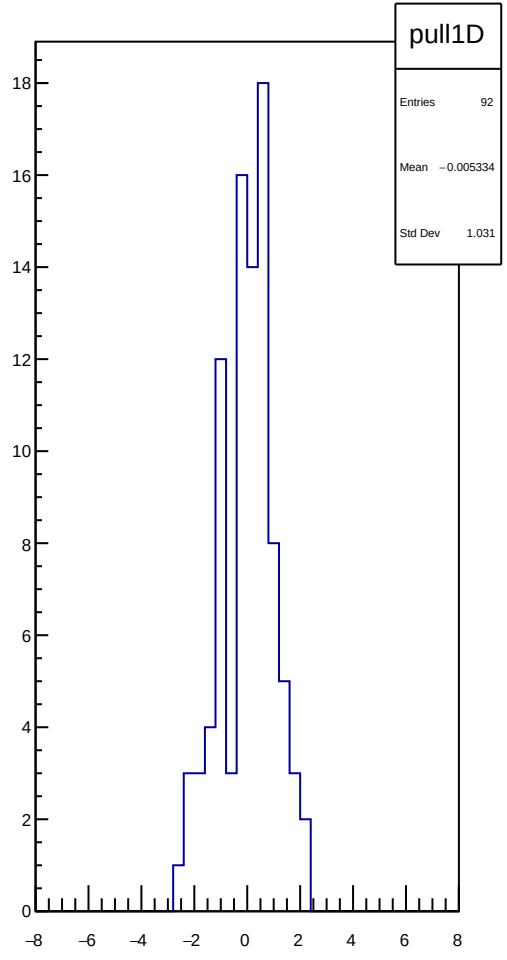

asym_atl_avg_atr_avg_avg_reg_correction_rms vs run
χ² / ndf 3769 / 91
p0 6080 ± 4.558
7500
7000
6500
6000
5500

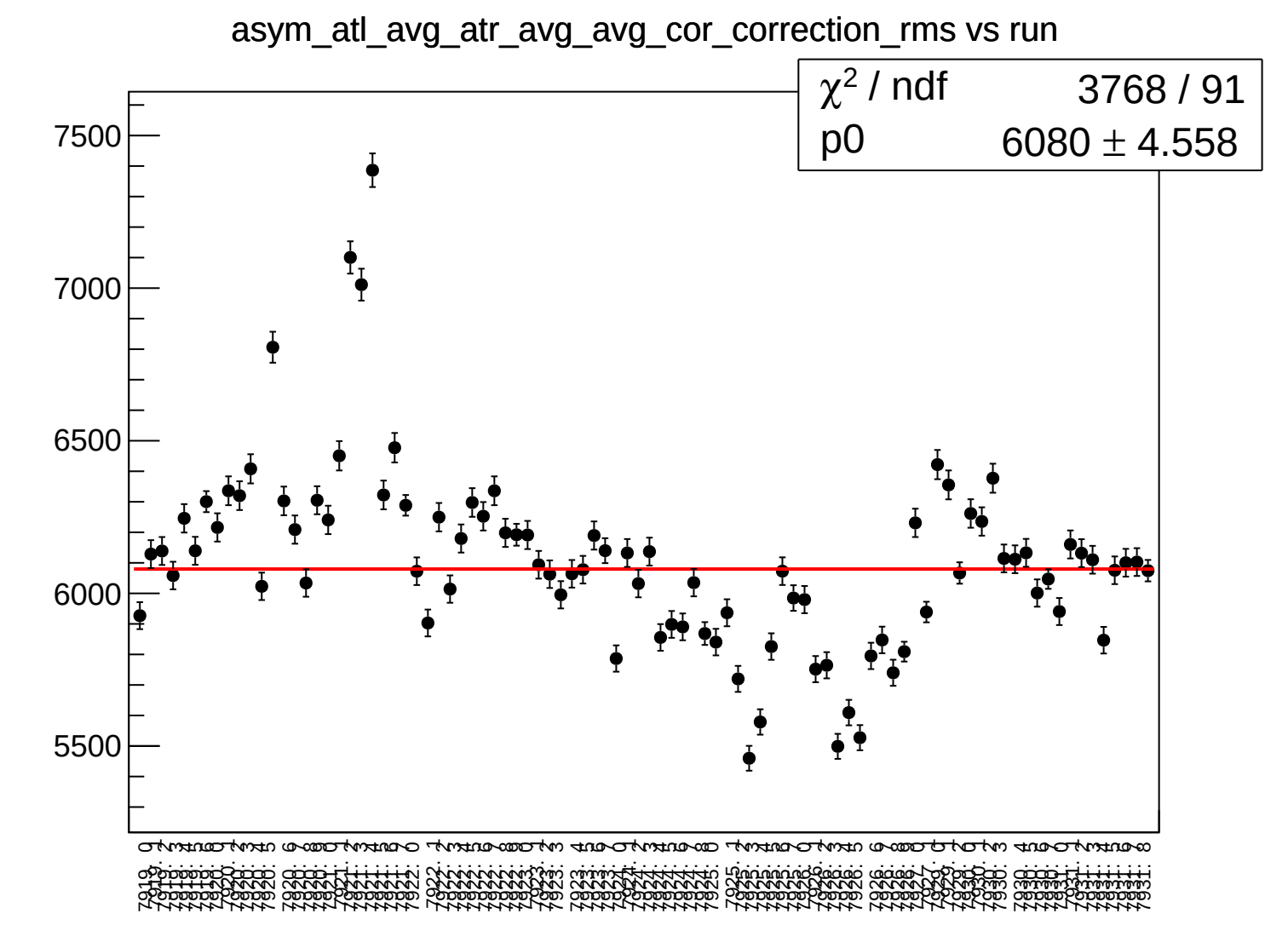

cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 92.8 / 91
p0 2785 ± 1363
60000
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 175.5
Std Dev 0
2
1
0
−1
−2

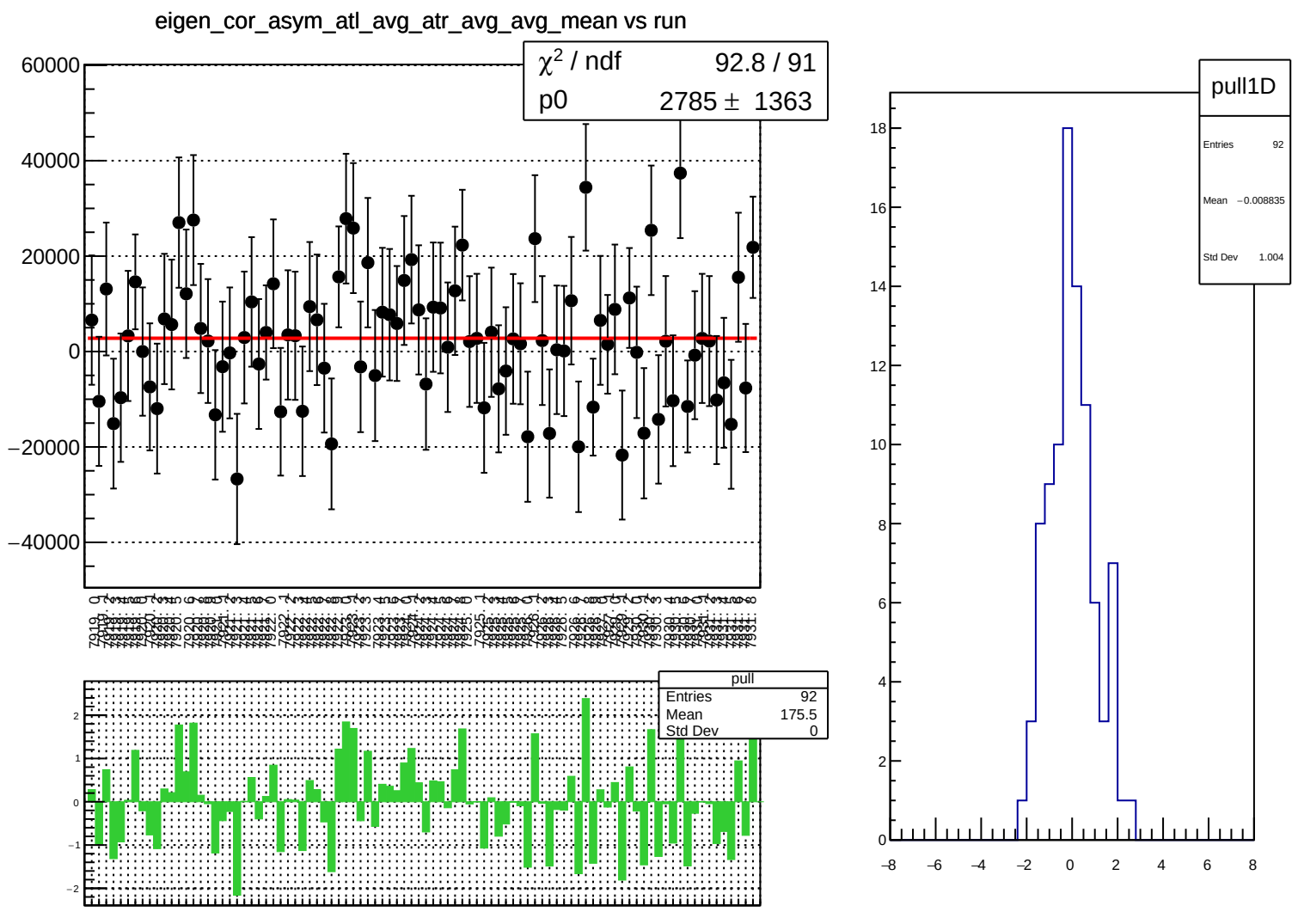

pull1D
Entries 92
Mean −0.008835
Std Dev 1.004
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

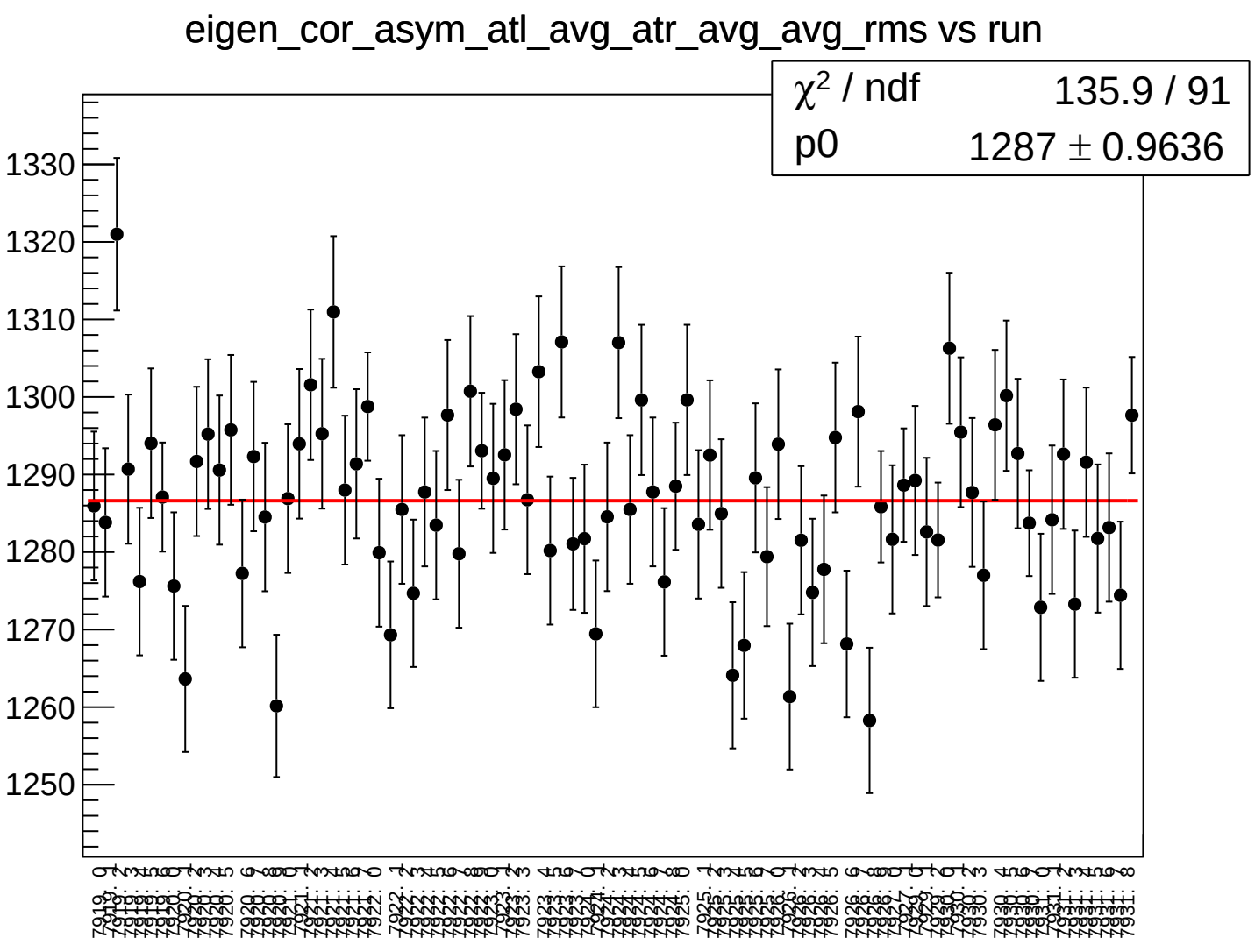

cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 135.9 / 91
p0 1287 ± 0.9636
1330
1320
1310
1300
1290
1280
1270
1260
1250

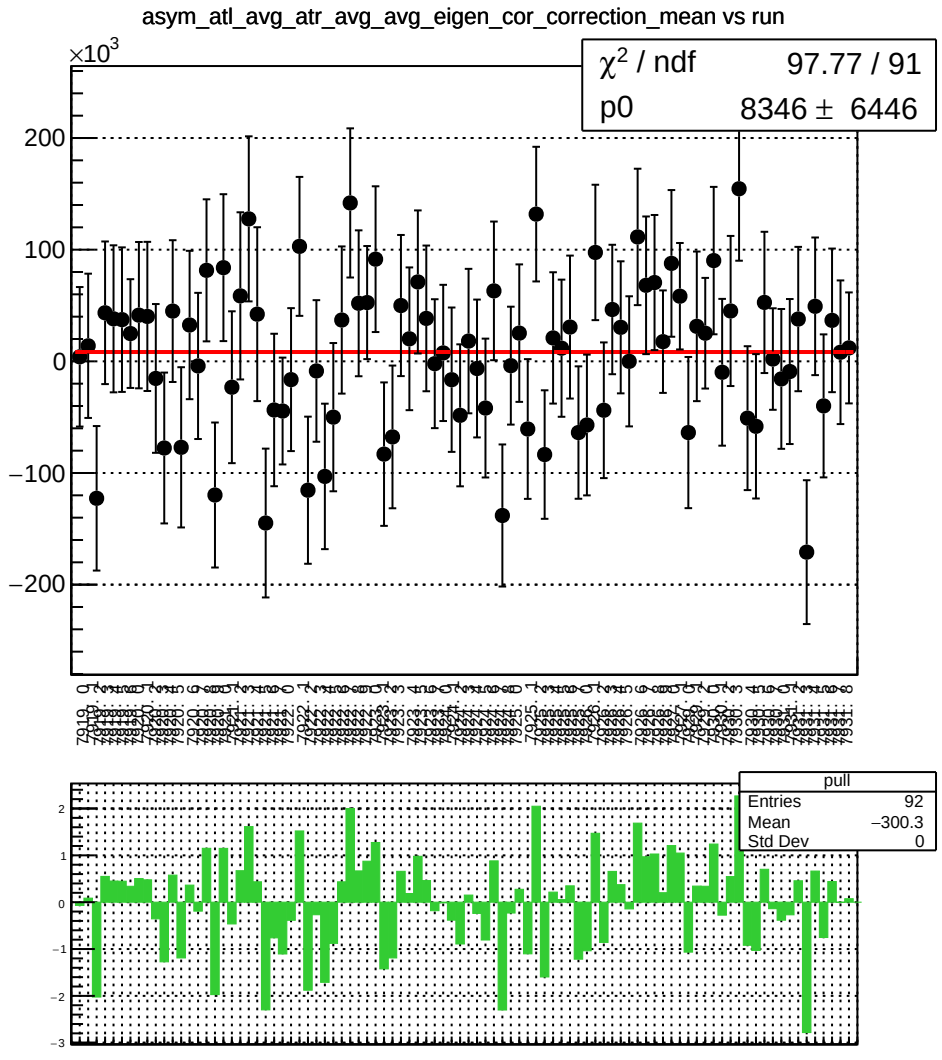

asym_atl_avg_atr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 97.77 / 91
p0 8346 ± 6446
200
100
0
−100
−200
pull
Entries 92
Mean −300.3
Std Dev 0
2
1
0
−1
−2
−3

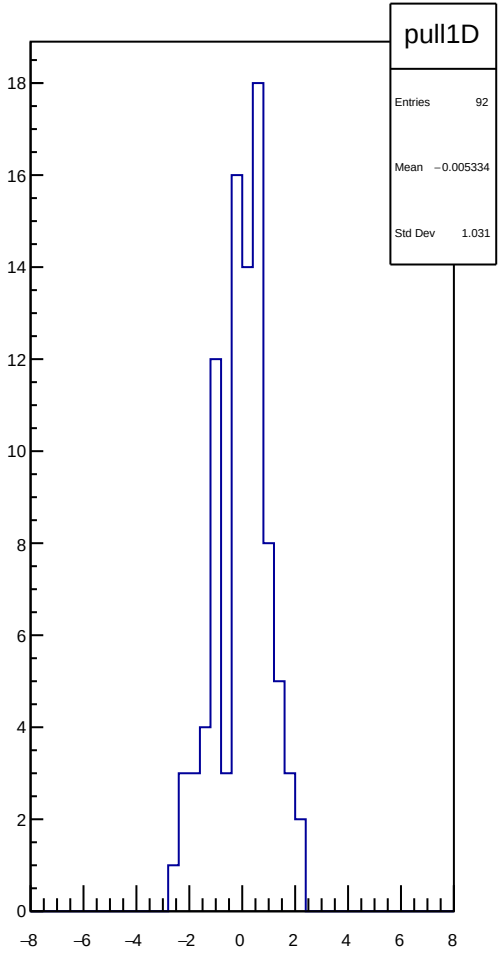

pull1D
Entries 92
Mean −0.005334
Std Dev 1.031
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

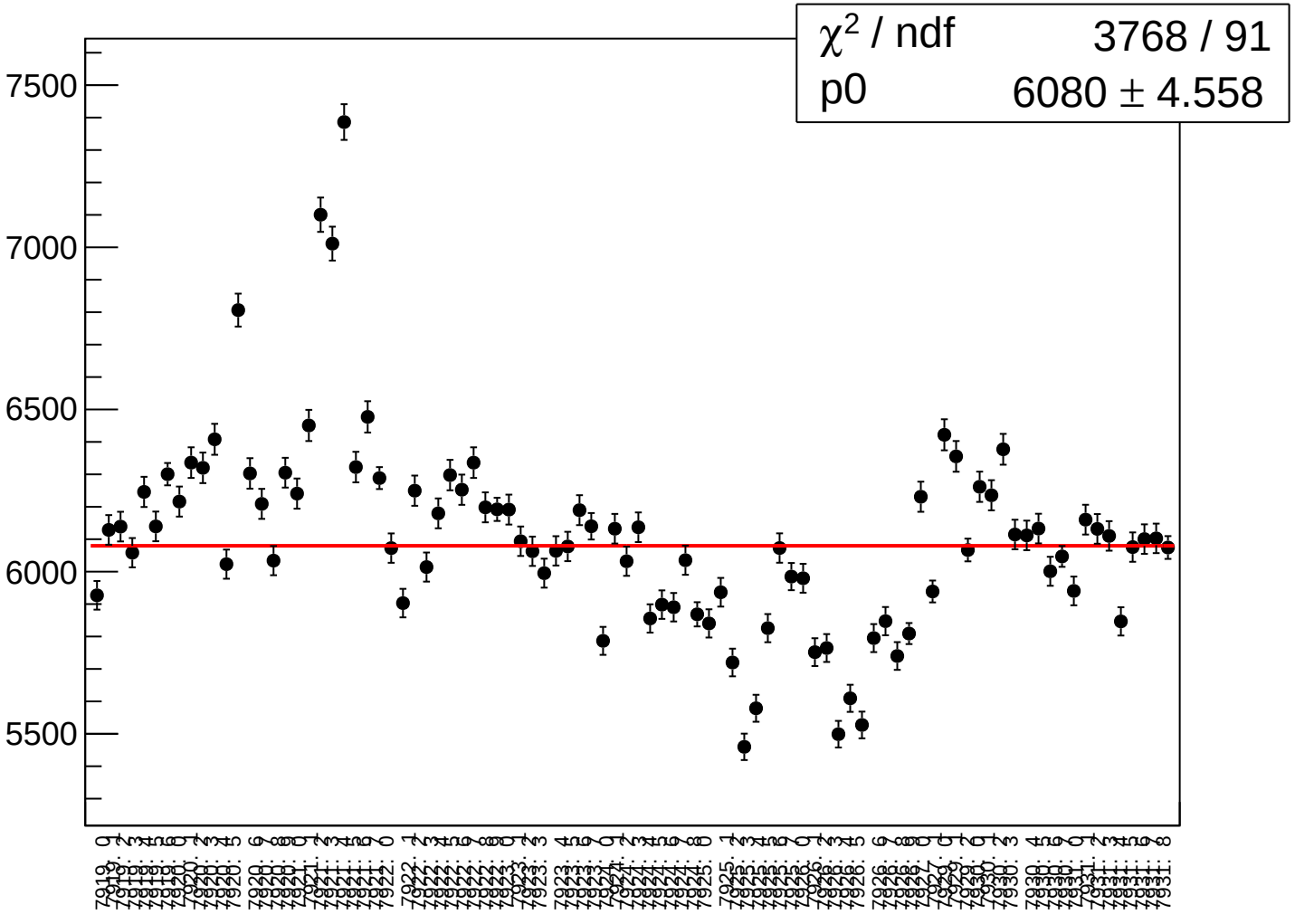

asym_atl_avg_atr_avg_avg_cor_correction_rms vs run
χ² / ndf 3768 / 91
p0 6080 ± 4.558
7500
7000
6500
6000
5500

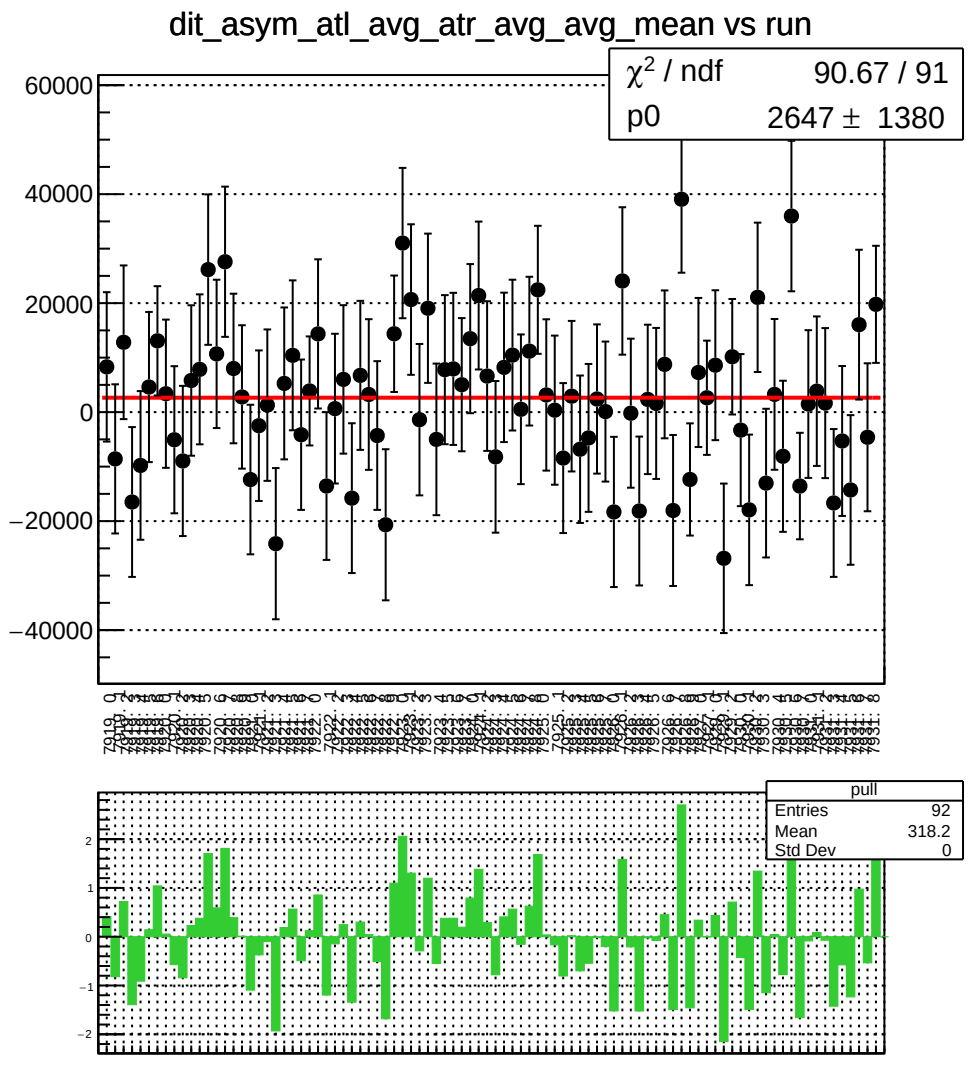

eigen_cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 92.8 / 91
p0 2785 ± 1363
60000
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 175.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.008835
Std Dev 1.004
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

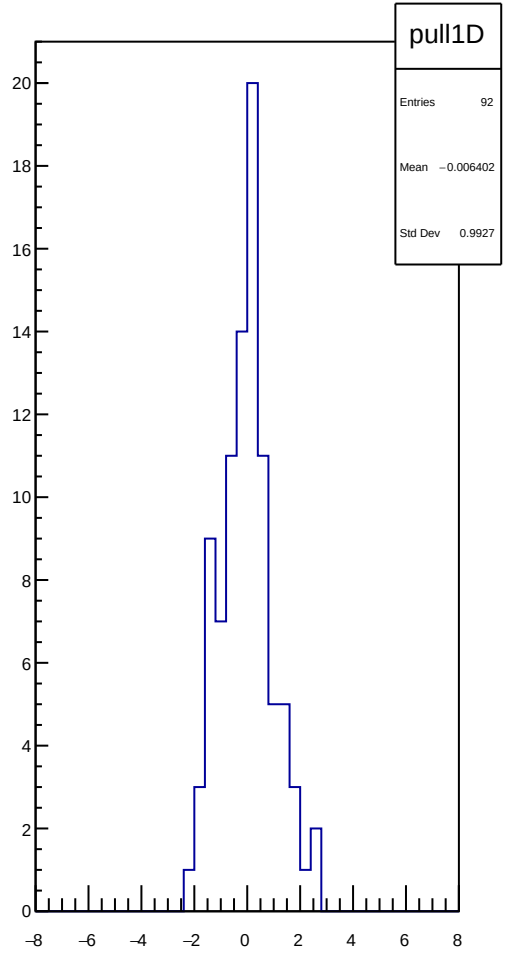

eigen_cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 135.9 / 91
p0 1287 ± 0.9636
1330
1320
1310
1300
1290
1280
1270
1260
1250

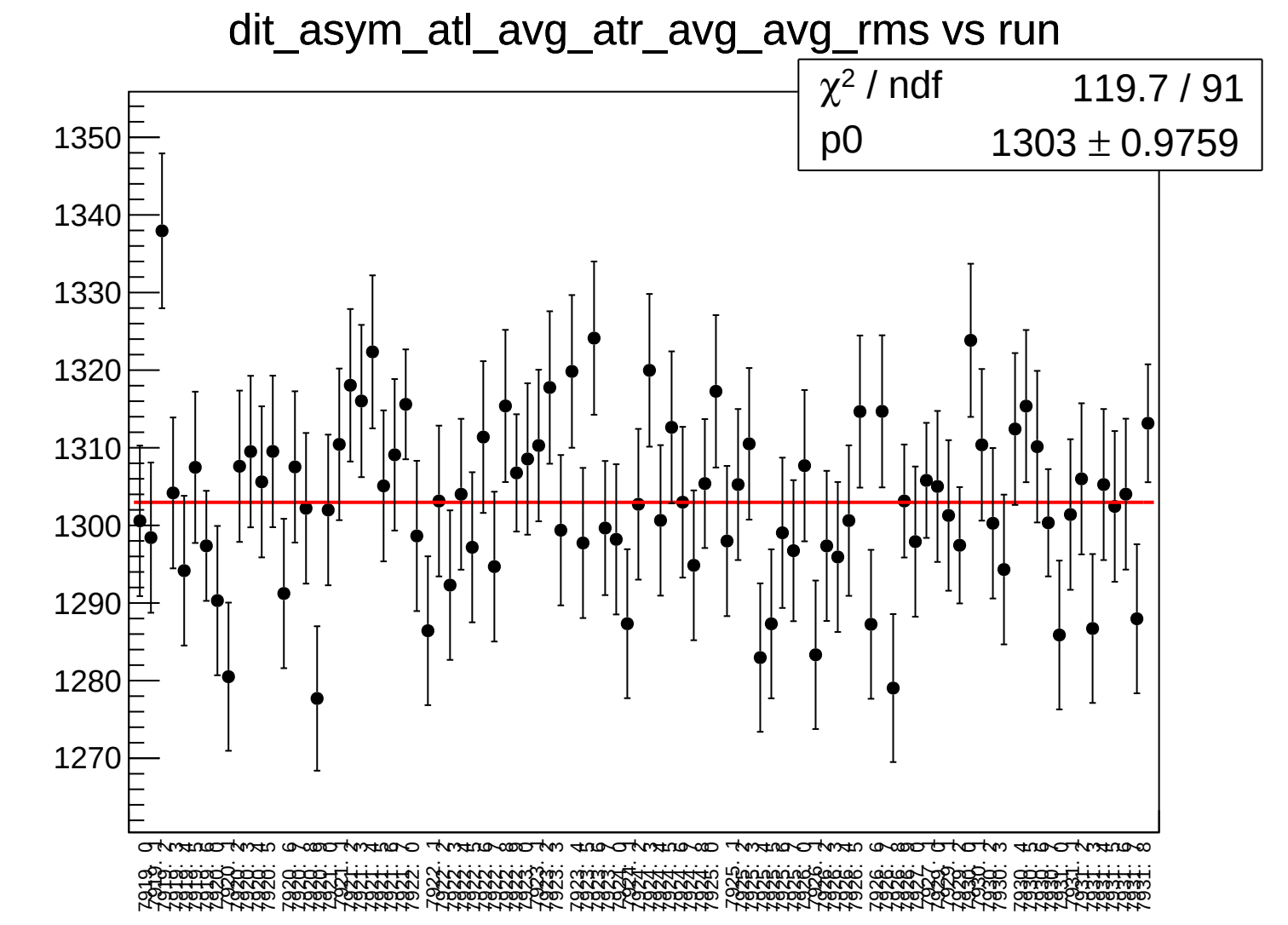

asym_atl_avg_atr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 97.77 / 91
p0 8346 ± 6446
200
100
0
−100
−200
pull
Entries 92
Mean −300.3
Std Dev 0
2
1
0
−1
−2
−3

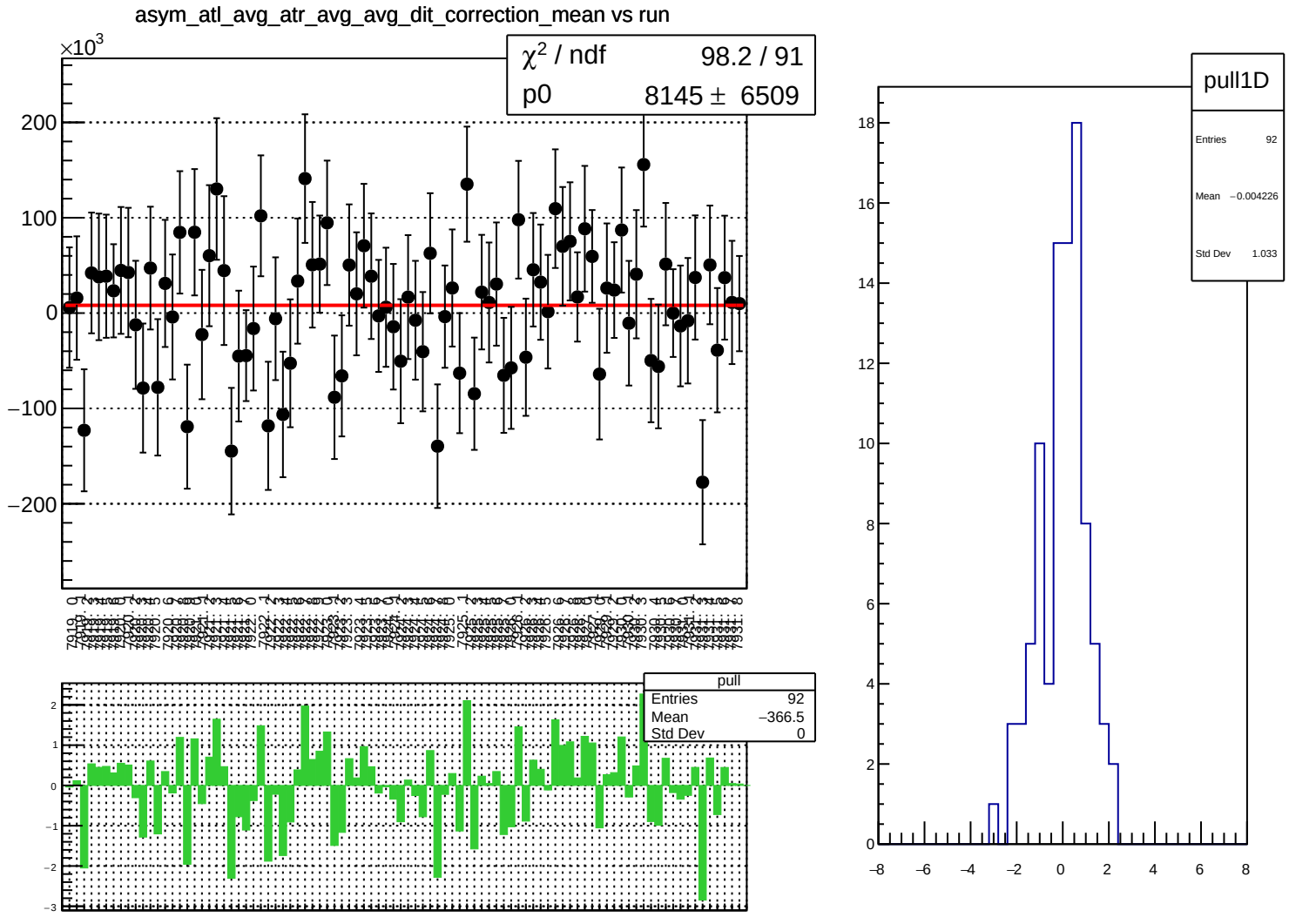

pull1D
Entries 92
Mean −0.005334
Std Dev 1.031
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

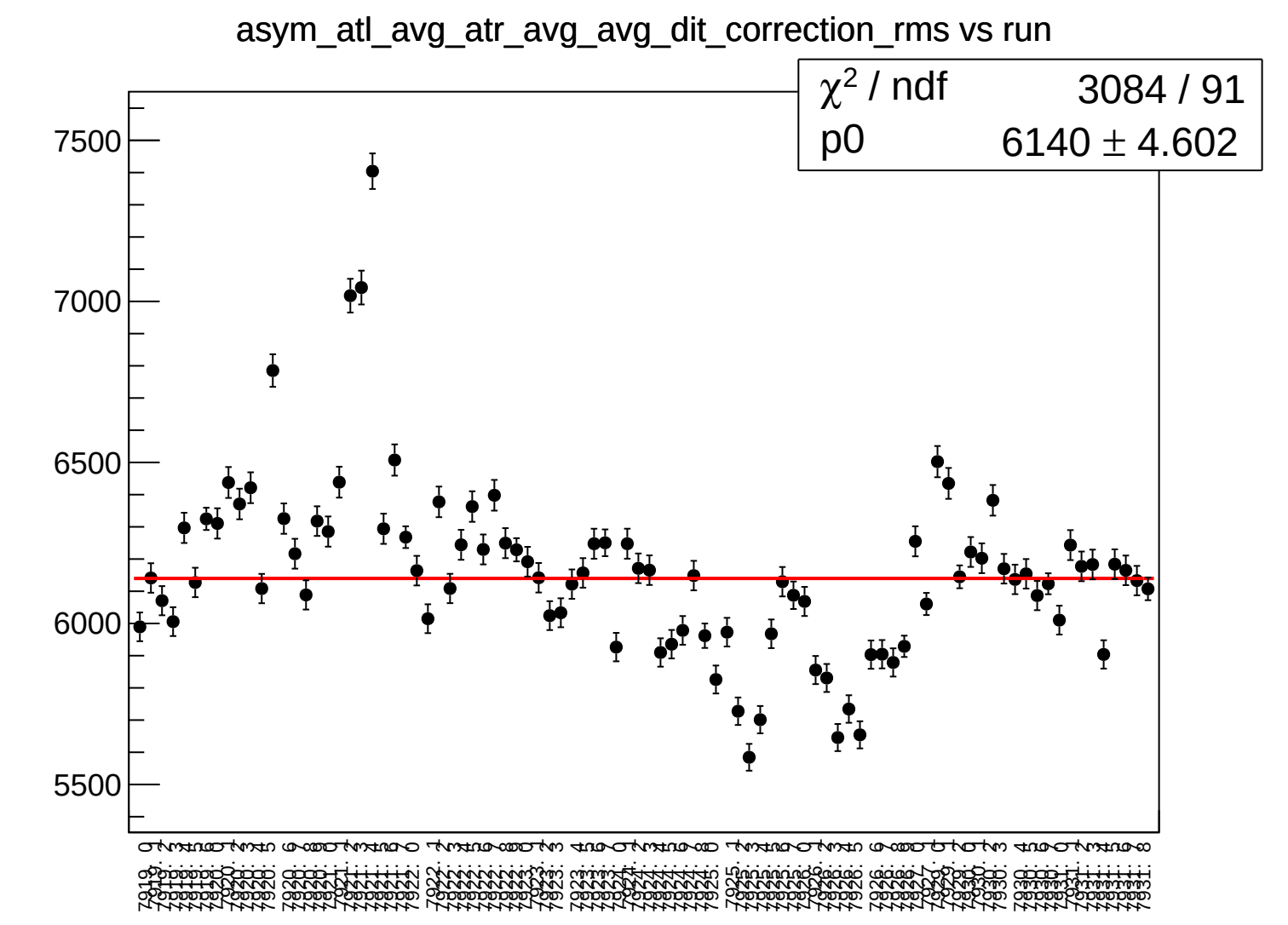

asym_atl_avg_atr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 3768 / 91
p0 6080 ± 4.558
7500
7000
6500
6000
5500

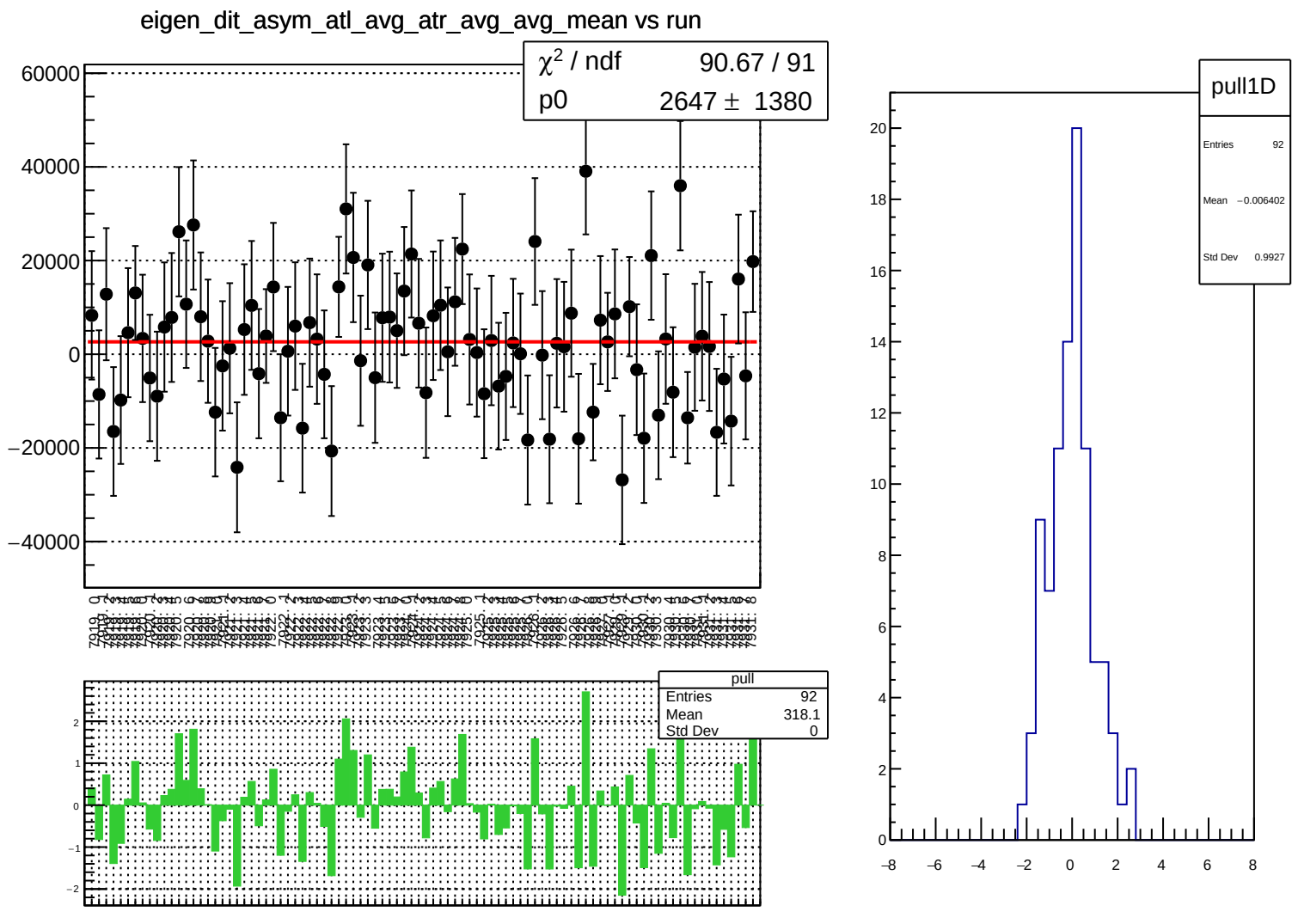

dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 90.67 / 91
p0 2647 ± 1380
60000
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 318.2
Std Dev 0
2
1
0
−1
−2

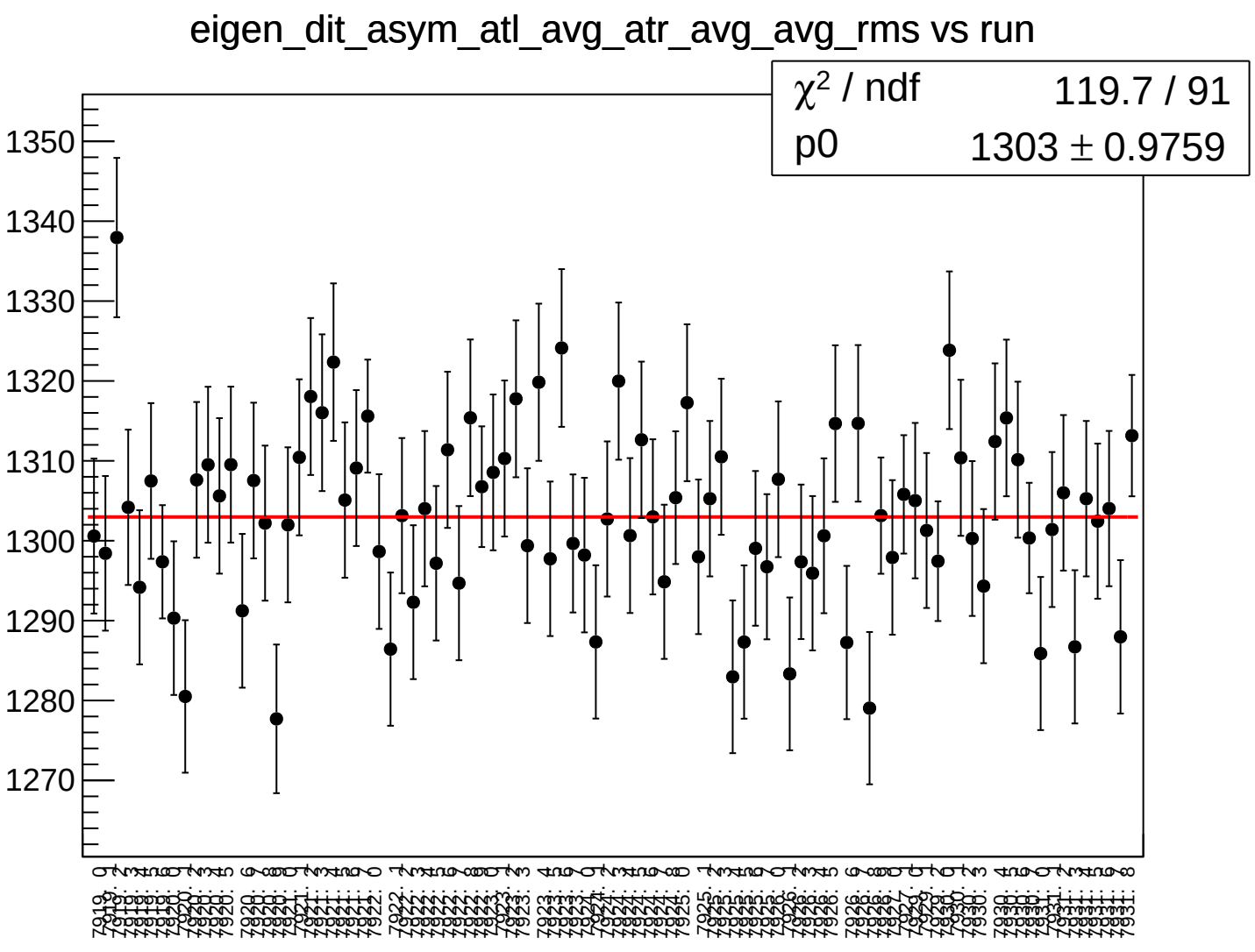

pull1D
Entries 92
Mean −0.006402
Std Dev 0.9927
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

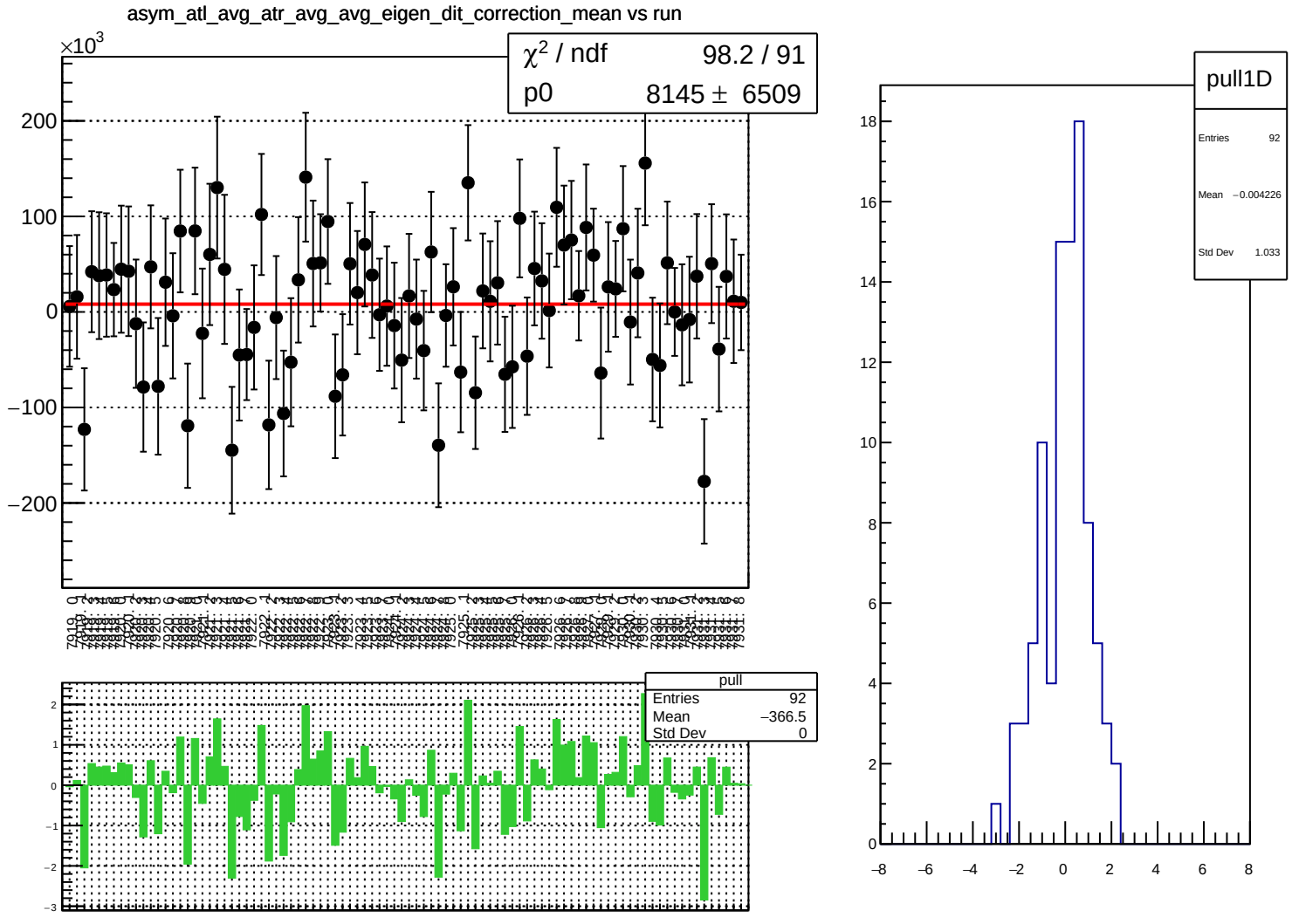

dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 119.7 / 91
p0 1303 ± 0.9759
1350
1340
1330
1320
1310
1300
1290
1280
1270

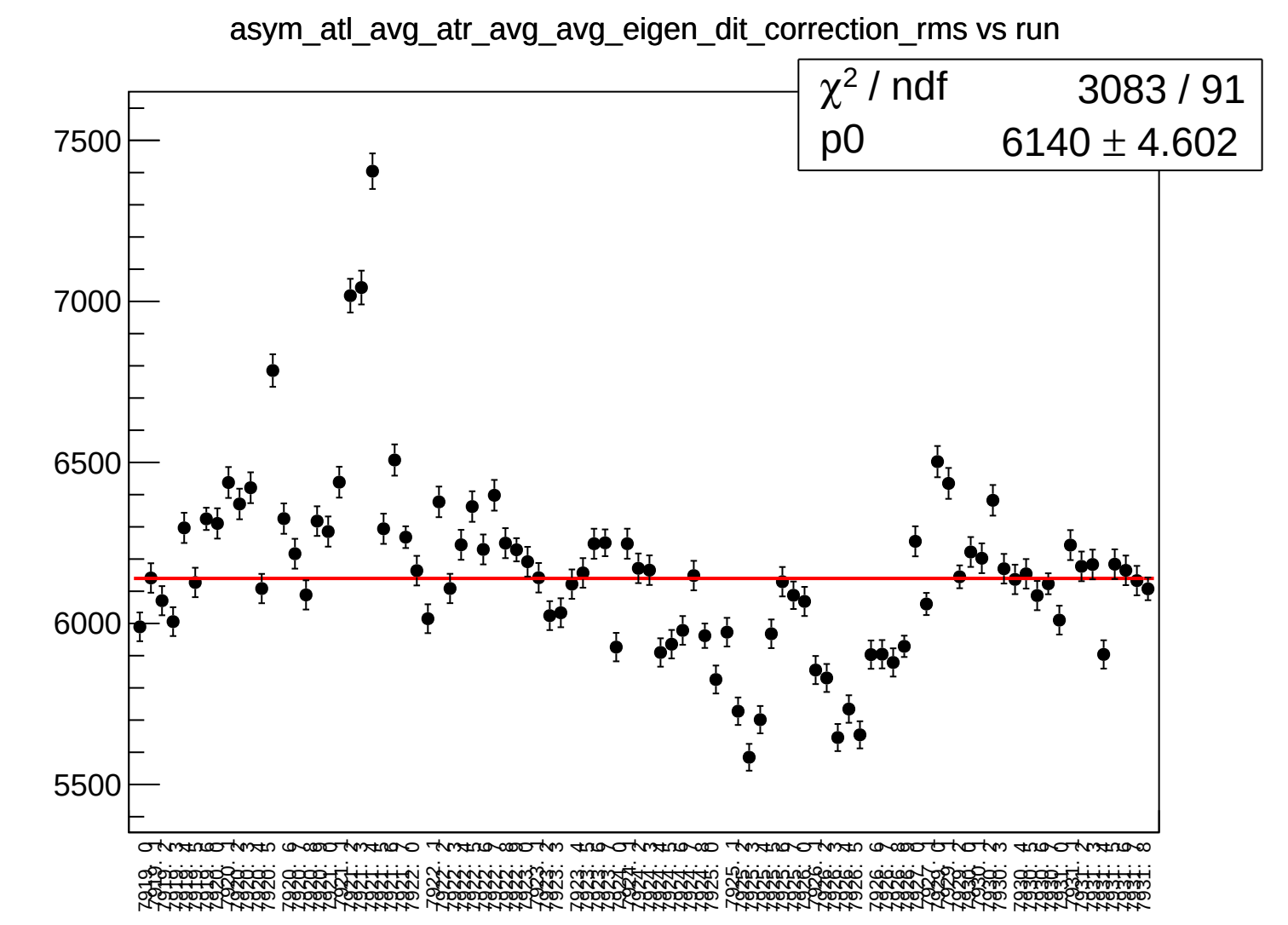

asym_atl_avg_atr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 98.2 / 91
p0 8145 ± 6509
200
100
0
−100
−200
pull
Entries 92
Mean −366.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.004226
Std Dev 1.033
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

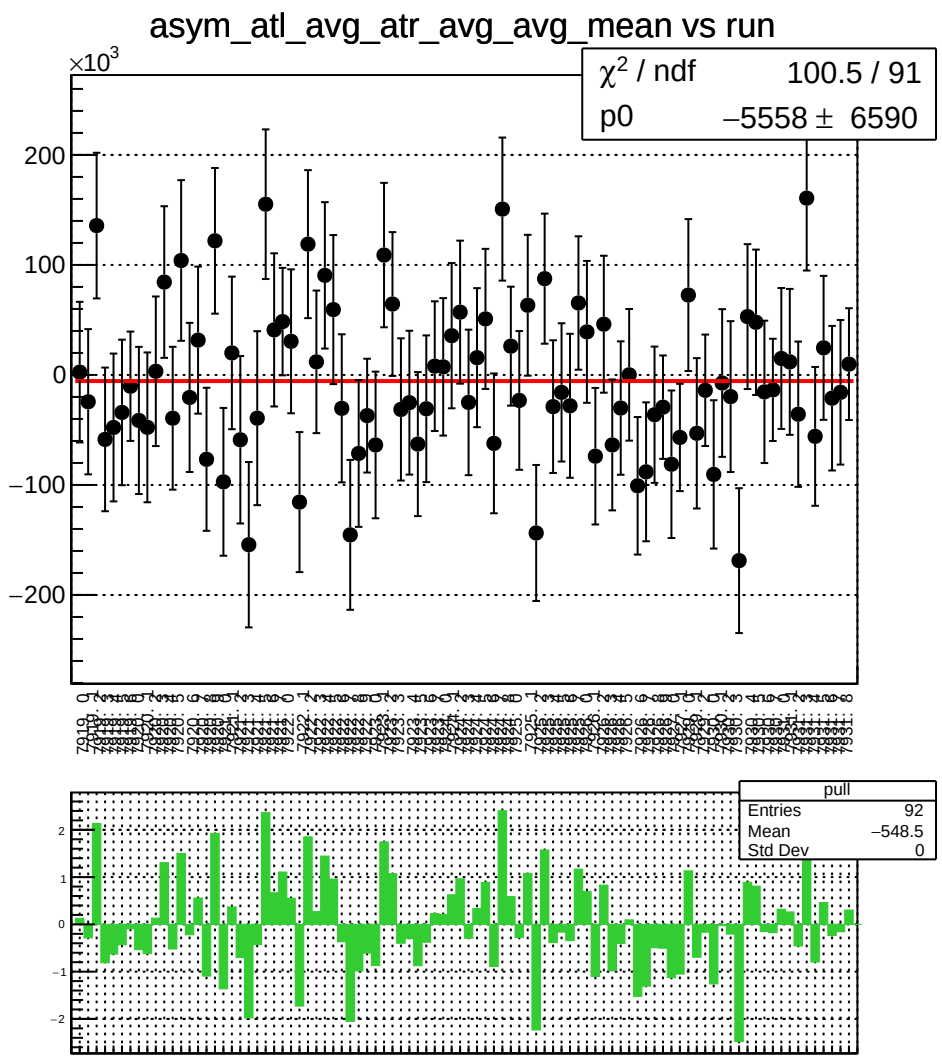

asym_atl_avg_atr_avg_avg_dit_correction_rms vs run
χ^2 / ndf 3084 / 91
p0 6140 ± 4.602
7500
7000
6500
6000
5500

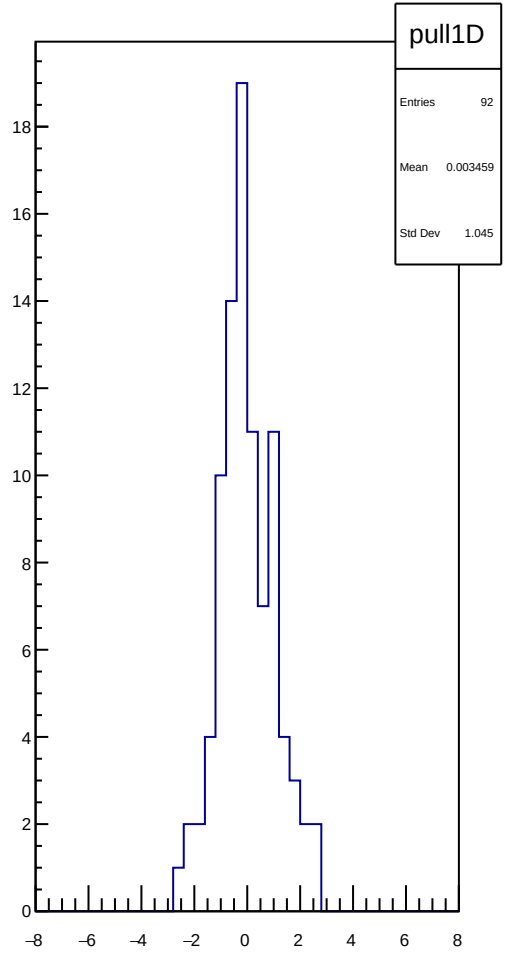

eigen_dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 90.67 / 91
p0 2647 ± 1380
60000
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 318.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.006402
Std Dev 0.9927
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

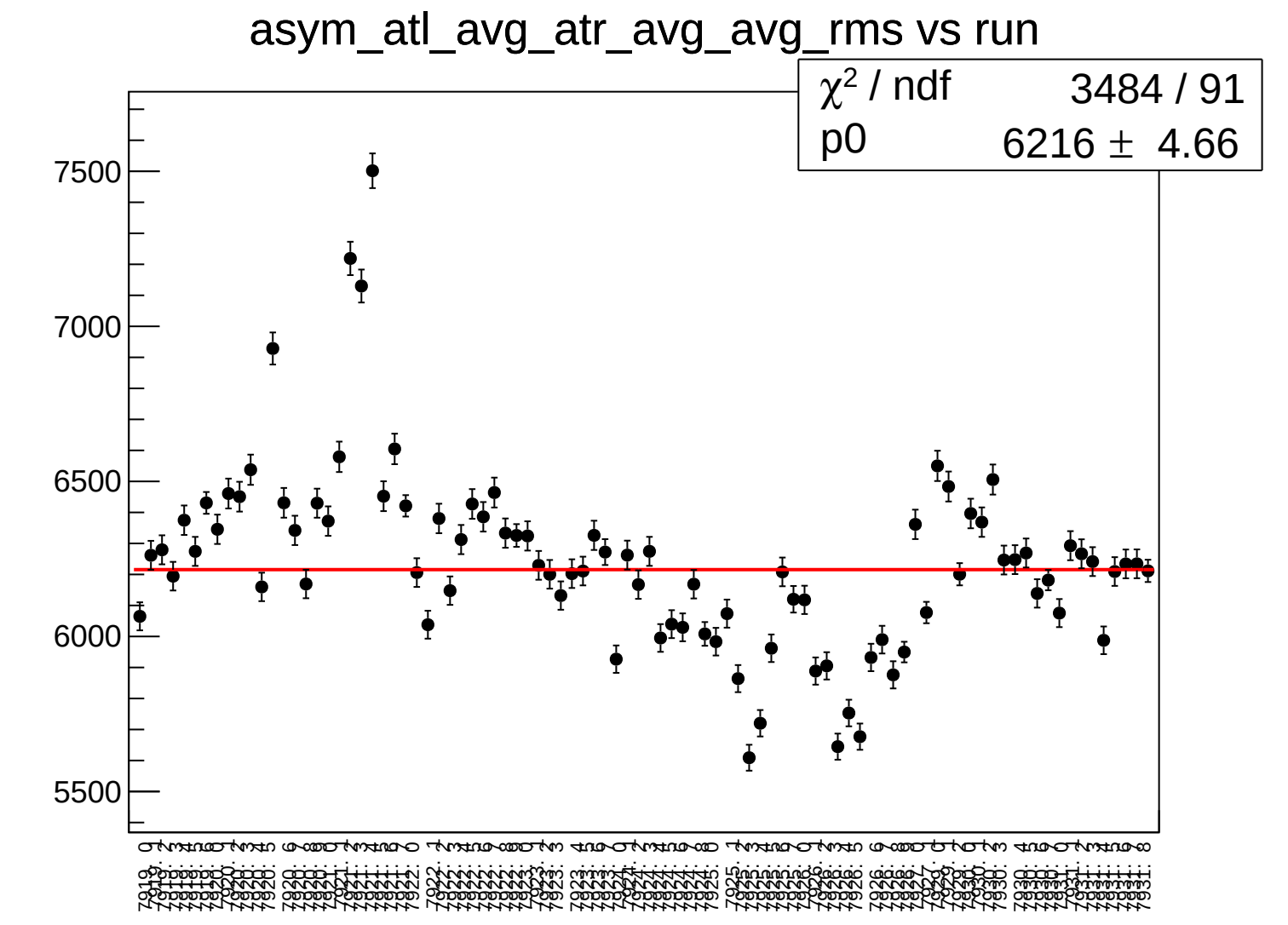

eigen_dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 119.7 / 91
p0 1303 ± 0.9759
1350
1340
1330
1320
1310
1300
1290
1280
1270

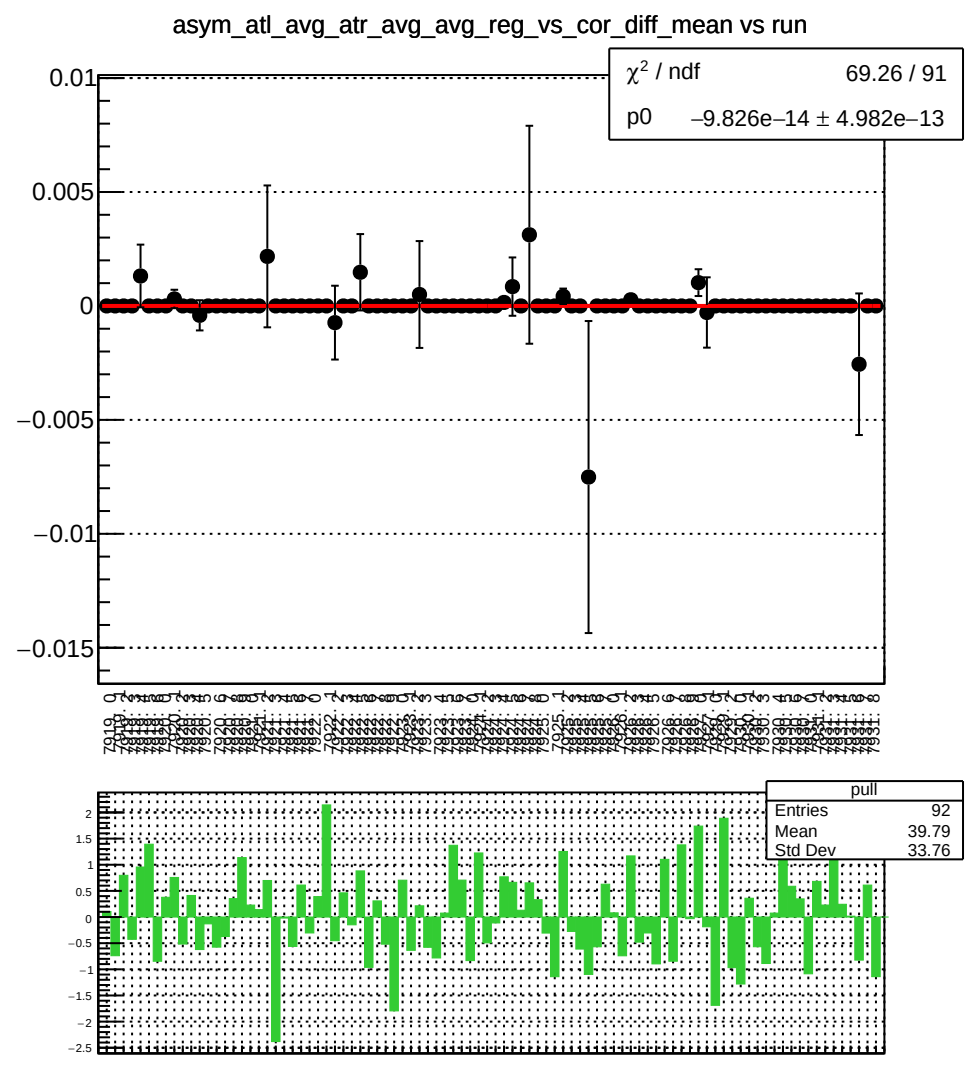

asym_atl_avg_atr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 98.2 / 91
p0 8145 ± 6509
200
100
0
−100
−200
pull
Entries 92
Mean −366.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.004226
Std Dev 1.033
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

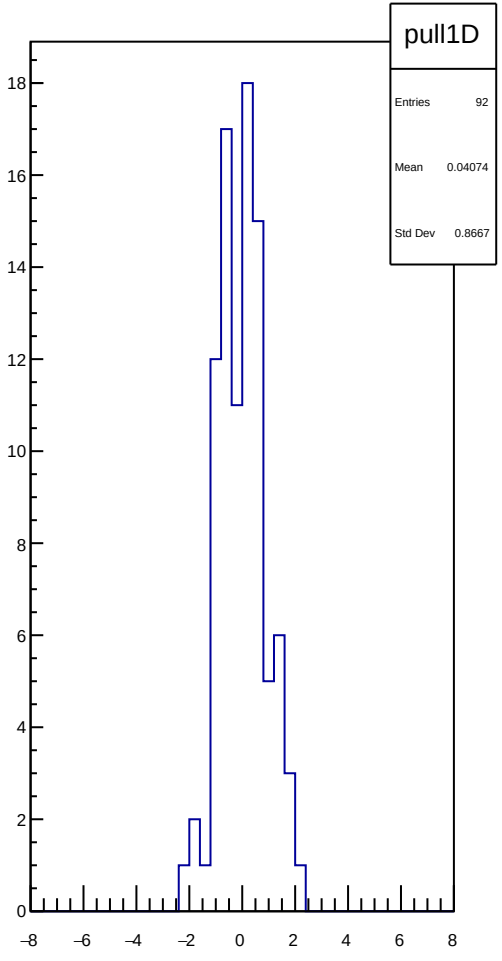

asym_atl_avg_atr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 3083 / 91
p0 6140 ± 4.602
7500
7000
6500
6000
5500

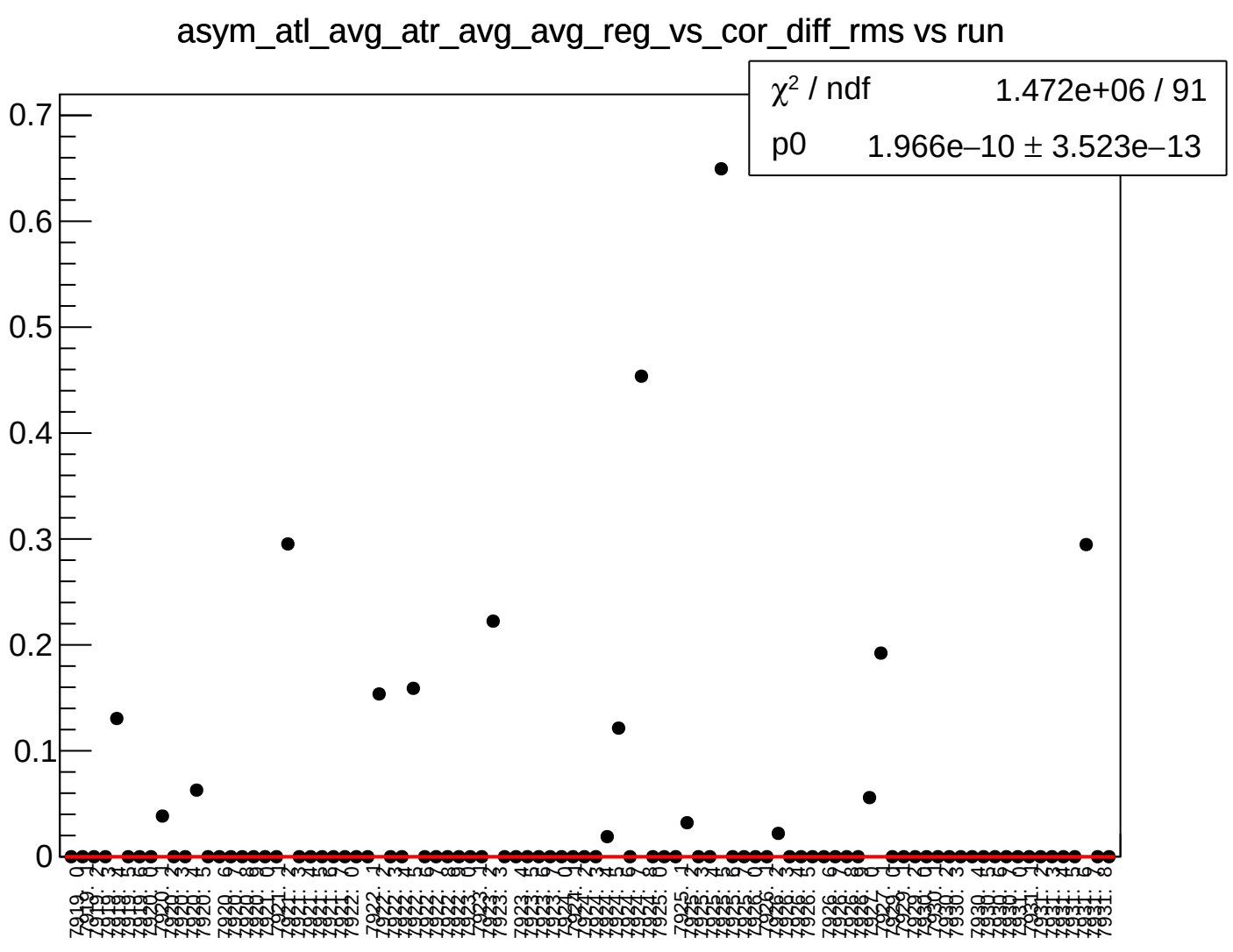

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 100.5 / 91
p0 −5558 ± 6590
200
100
0
−100
−200
pull
Entries 92
Mean −548.5
Std Dev 0
2
1
0
−1
−2

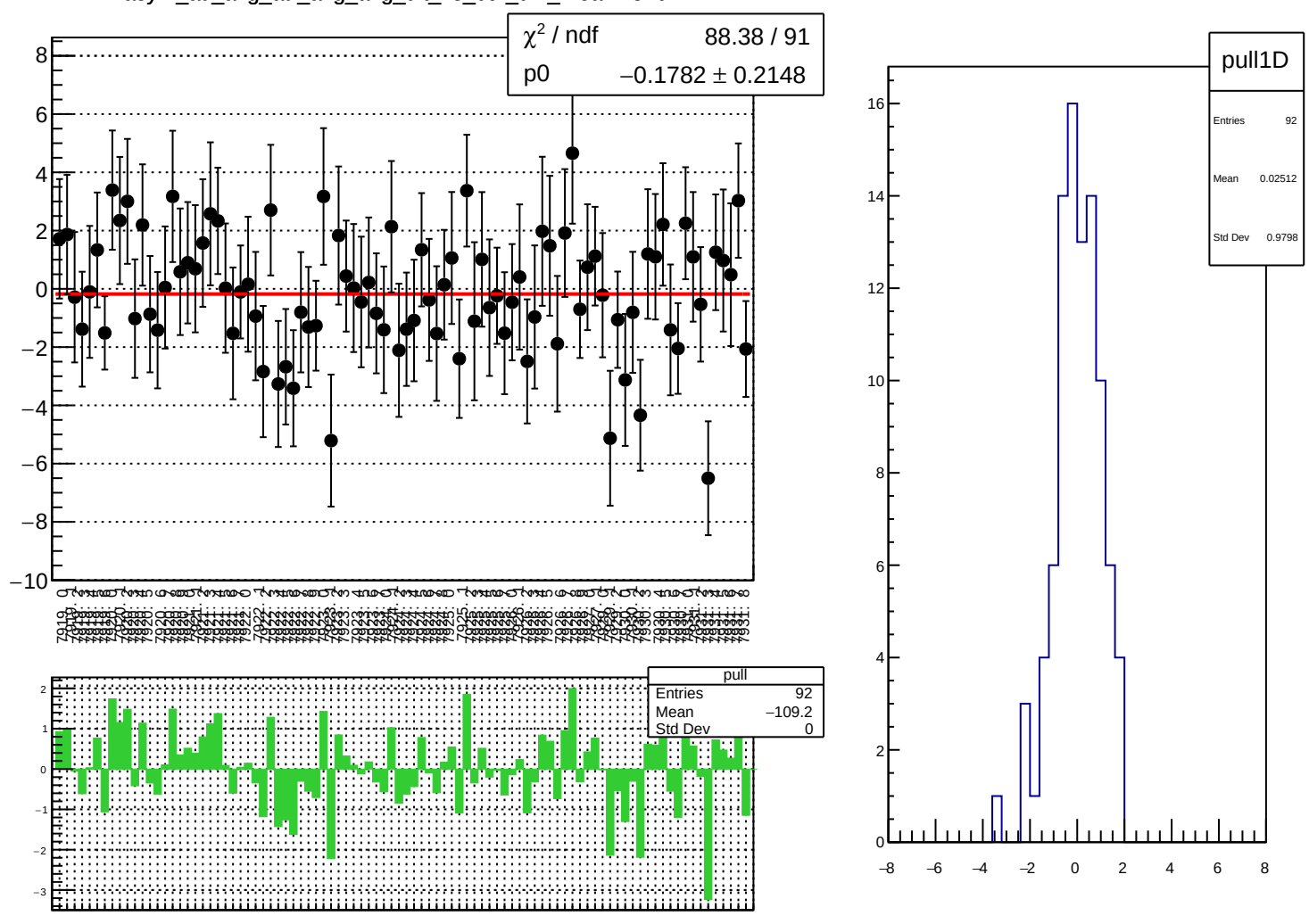

pull1D
Entries 92
Mean 0.003459
Std Dev 1.045
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

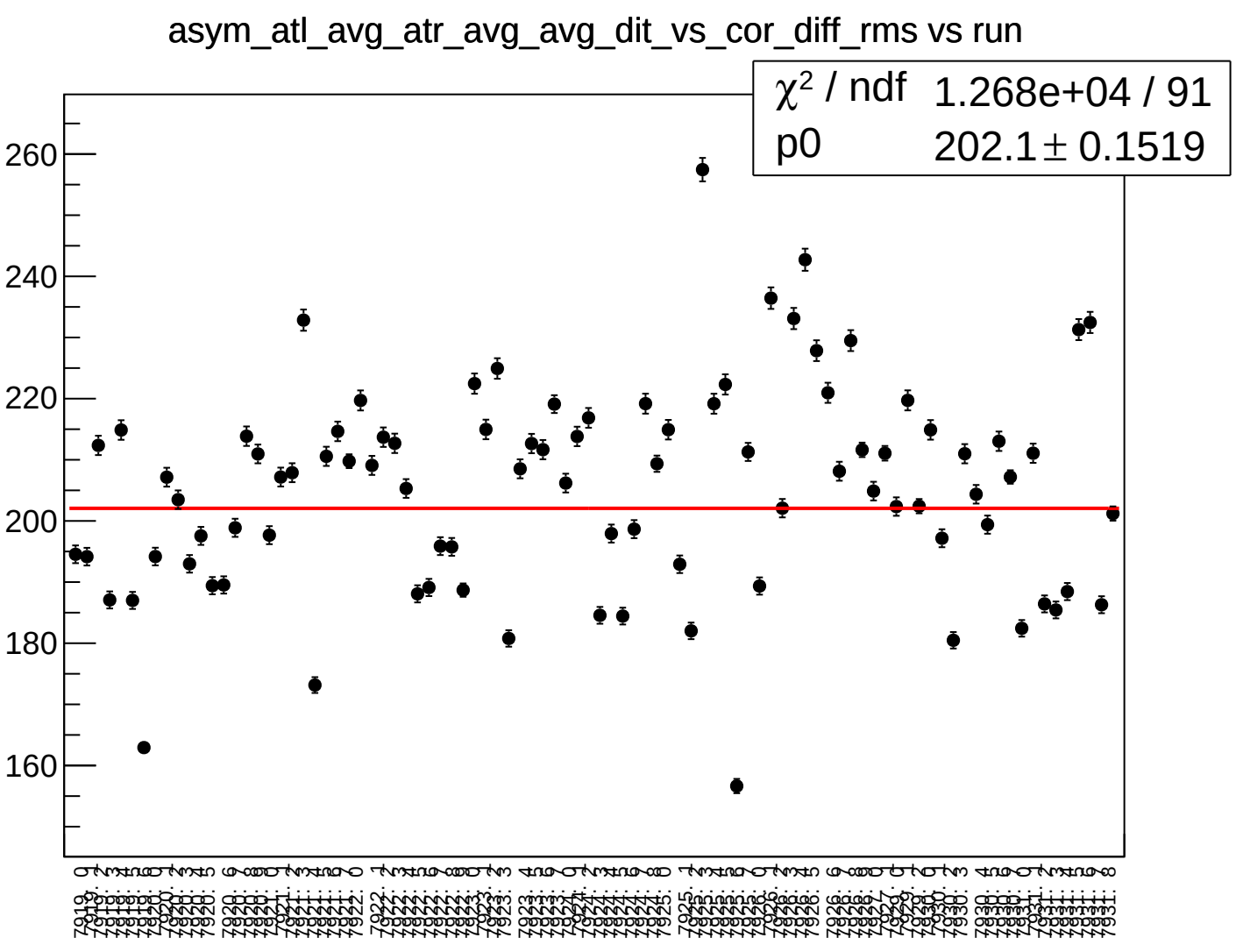

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 3484 / 91
p0 6216 ± 4.66
7500
7000
6500
6000
5500

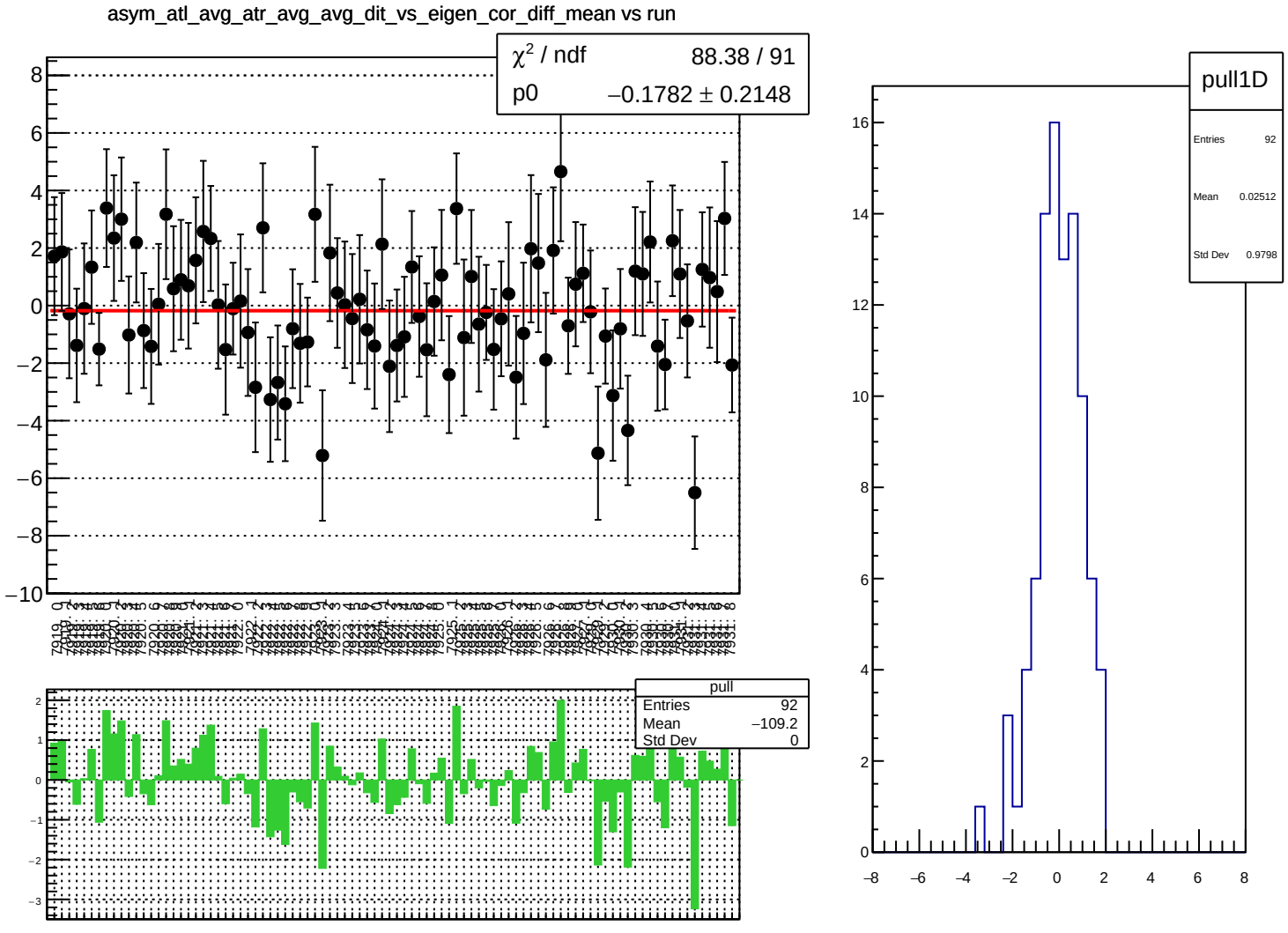

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 69.26 / 91
p0 −9.826e−14 ± 4.982e−13
pull
Entries 92
Mean 39.79
Std Dev 33.76

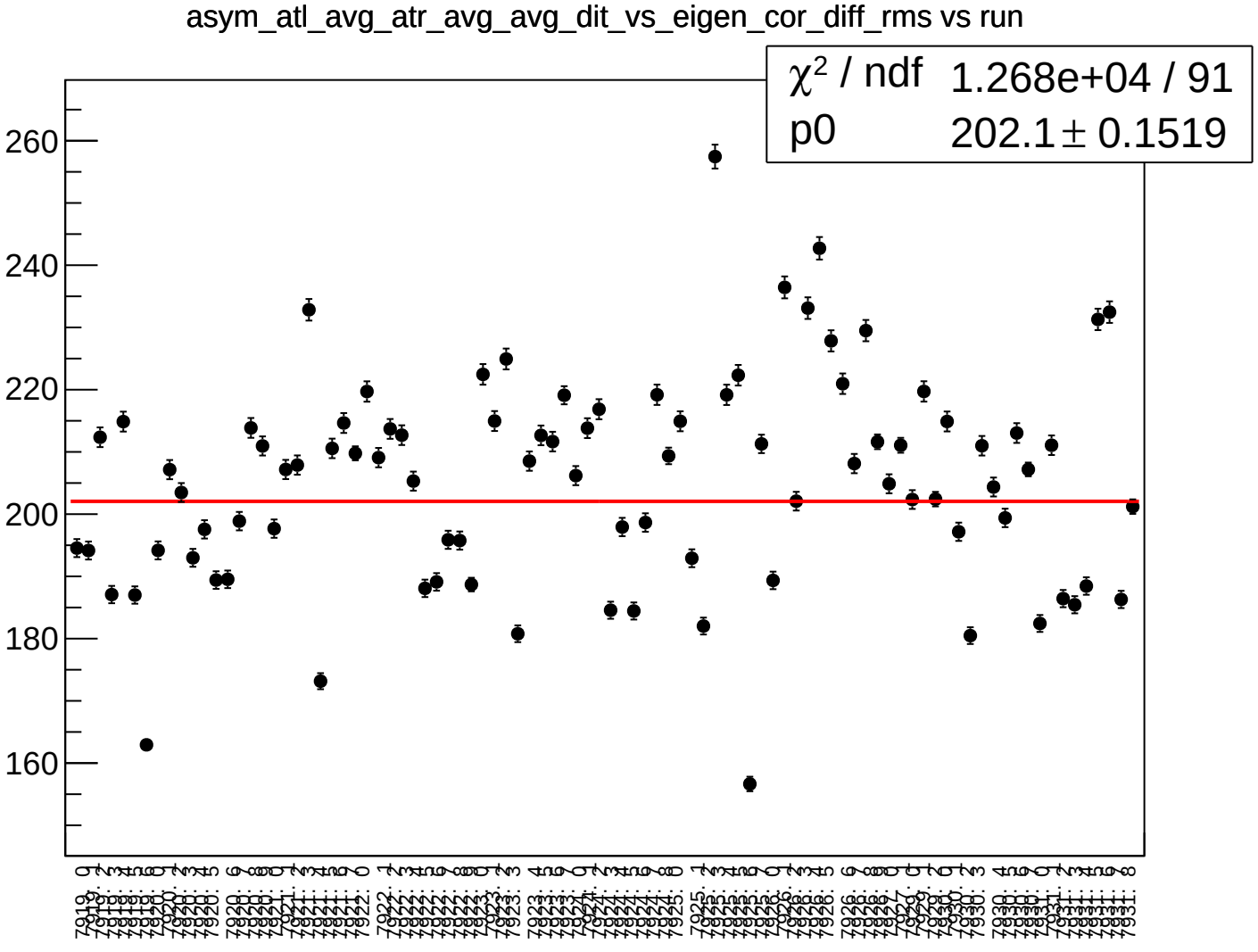

pull1D
Entries 92
Mean 0.04074
Std Dev 0.8667

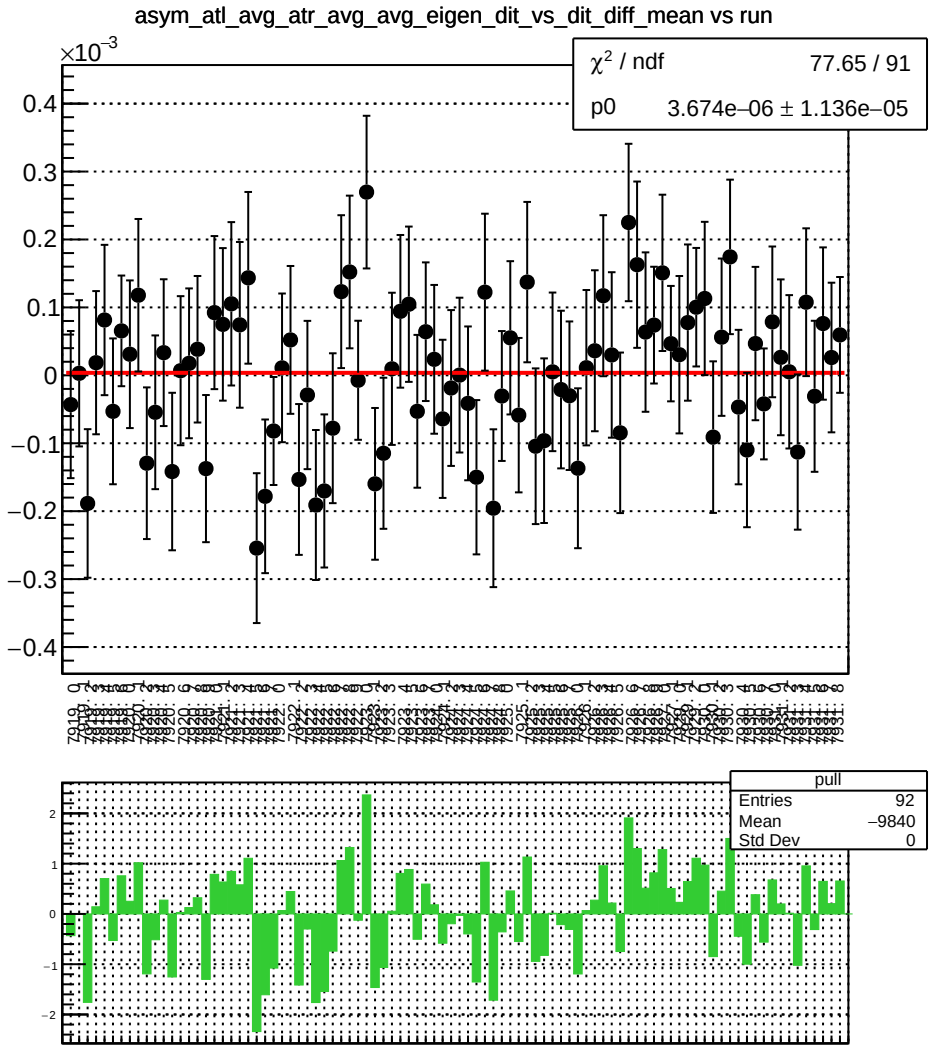

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.472e+06 / 91
p0 1.966e−10 ± 3.523e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

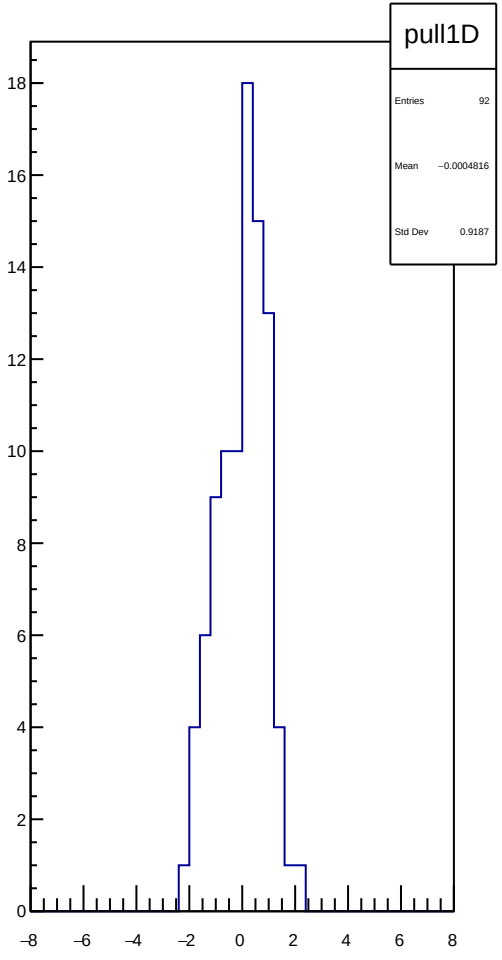

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 88.38 / 91
p0 −0.1782 ± 0.2148
pull
Entries 92
Mean −109.2
Std Dev 0
pull1D
Entries 92
Mean 0.02512
Std Dev 0.9798

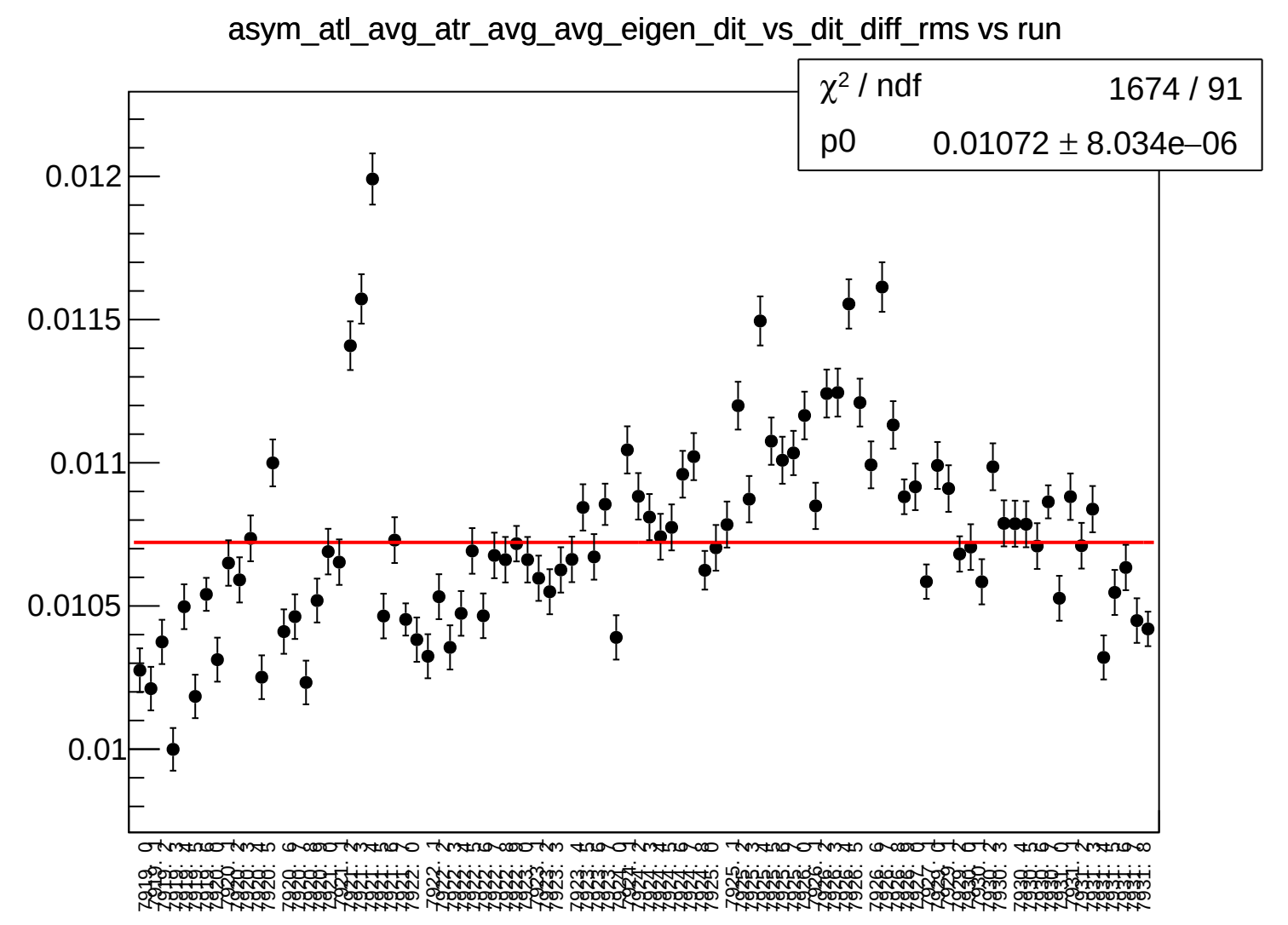

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.268e+04 / 91
p0 202.1 ± 0.1519
260
240
220
200
180
160

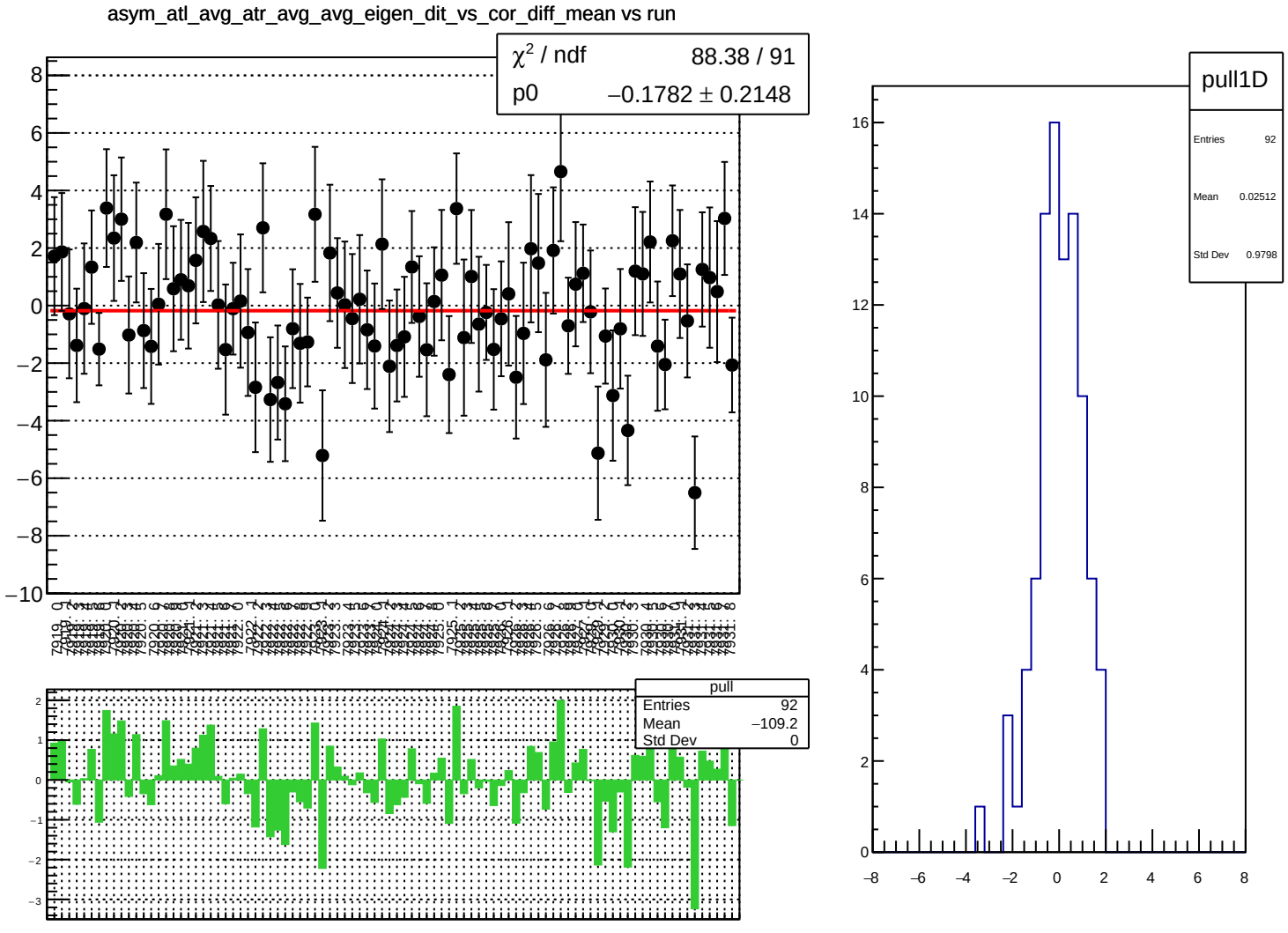

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.38 / 91
p0 −0.1782 ± 0.2148
pull
Entries 92
Mean −109.2
Std Dev 0
pull1D
Entries 92
Mean 0.02512
Std Dev 0.9798

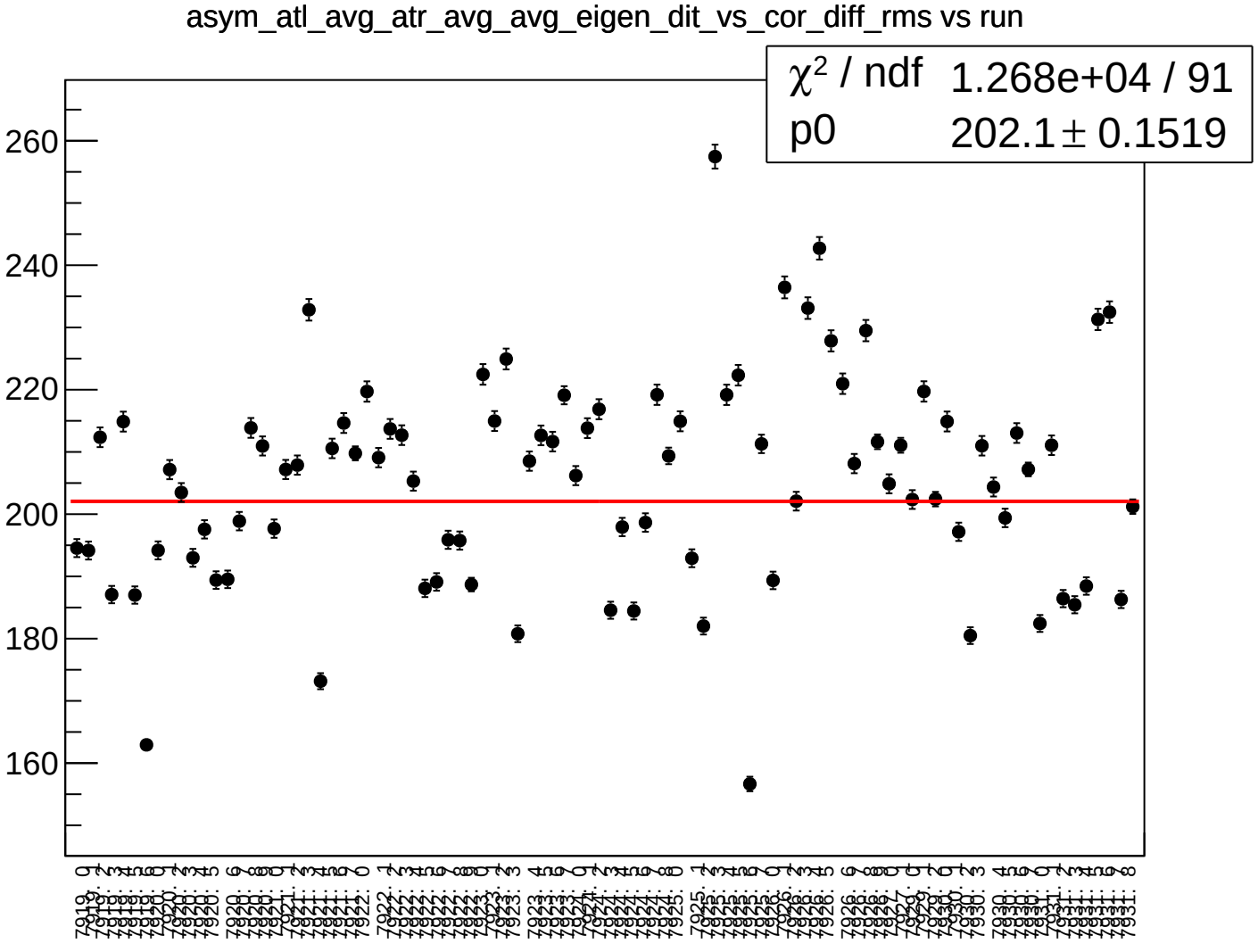

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.268e+04 / 91
p0 202.1 ± 0.1519
260
240
220
200
180
160

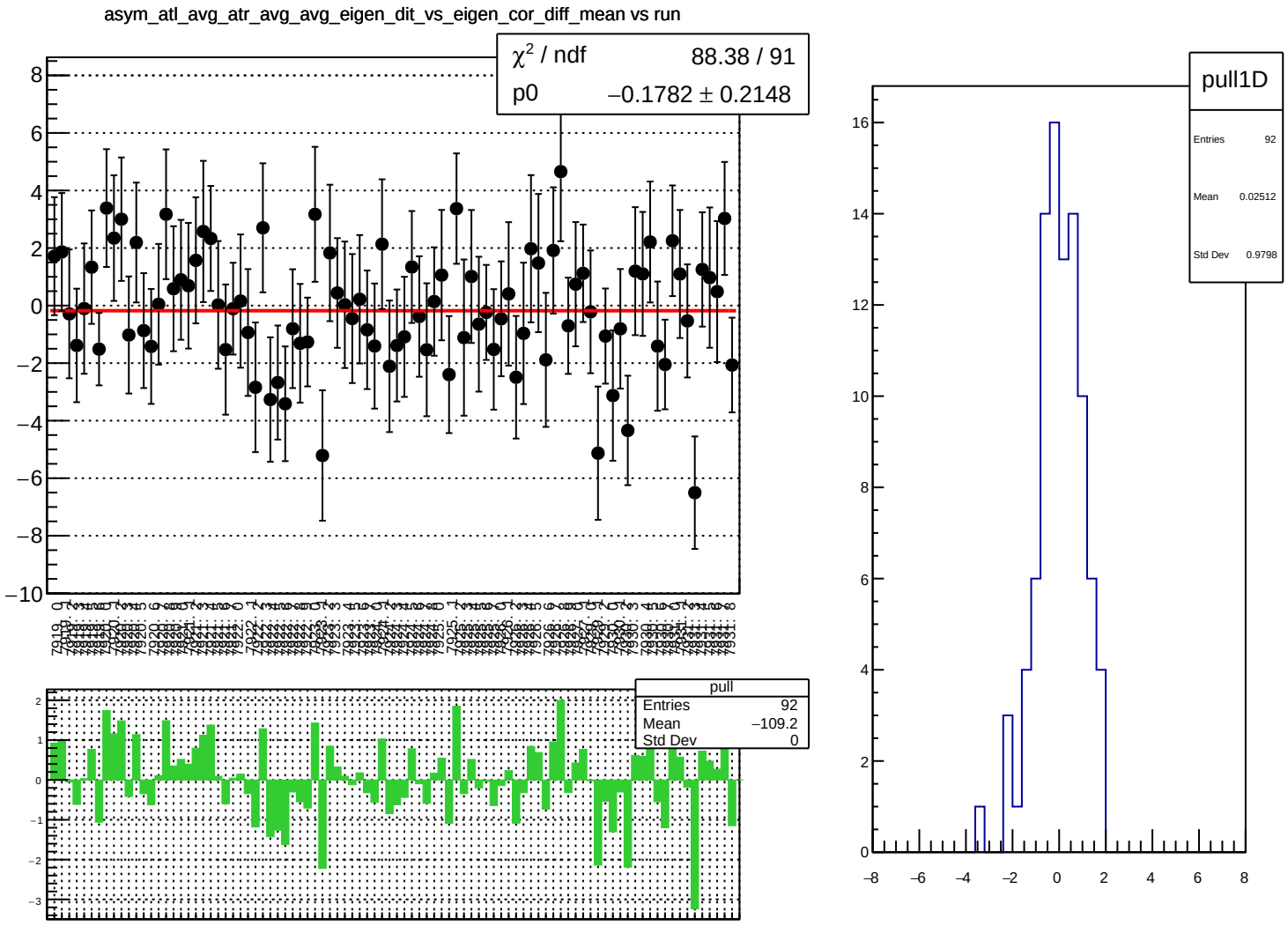

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 77.65 / 91
p0 3.674e−06 ± 1.136e−05
pull
Entries 92
Mean −9840
Std Dev 0

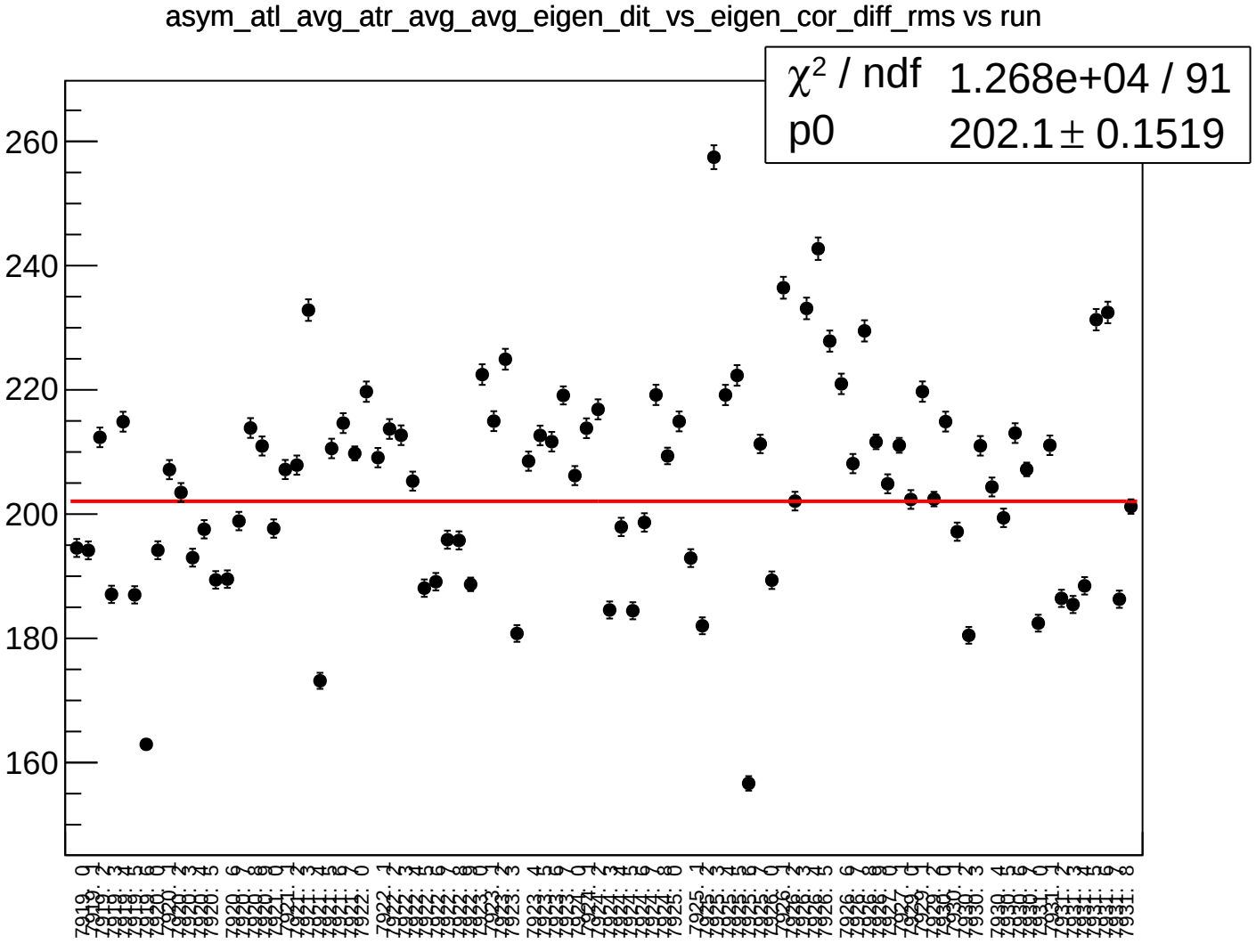

pull1D
Entries 92
Mean −0.0004816
Std Dev 0.9187

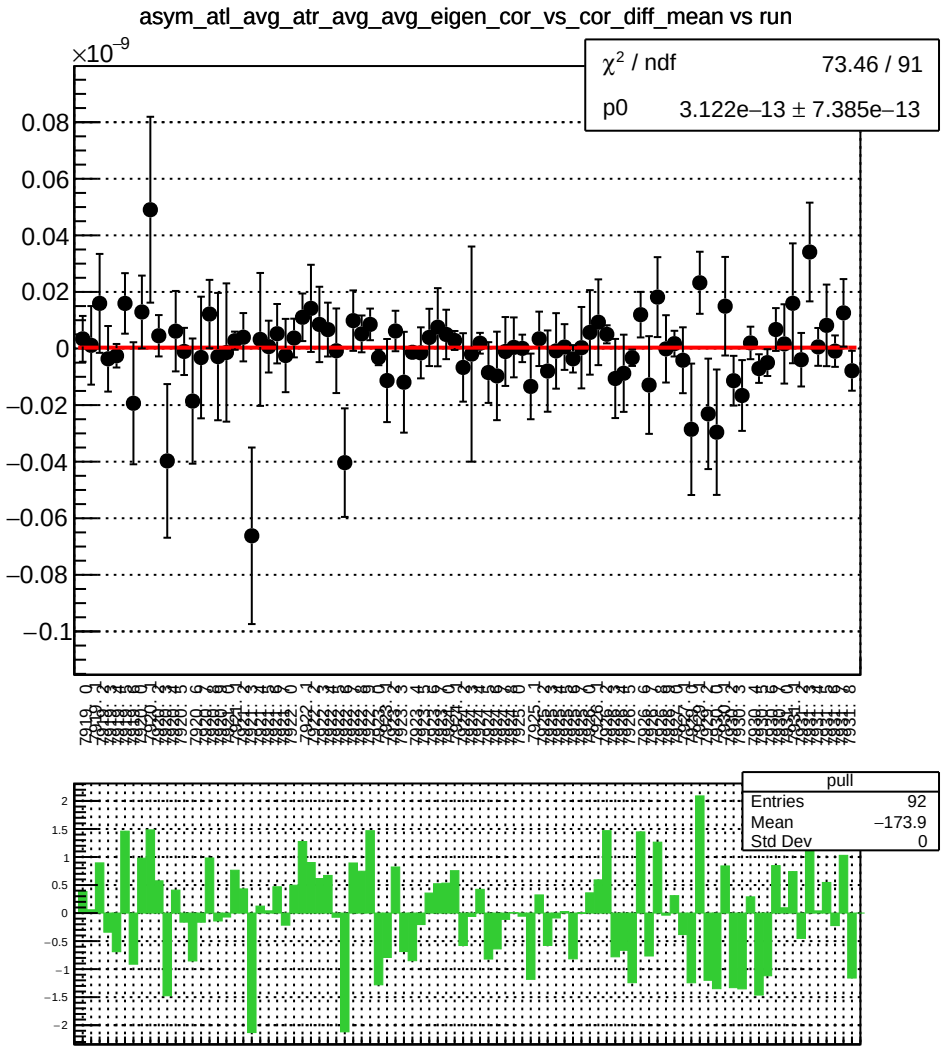

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1674 / 91
p0 0.01072 ± 8.034e–06
0.012
0.0115
0.011
0.0105
0.01

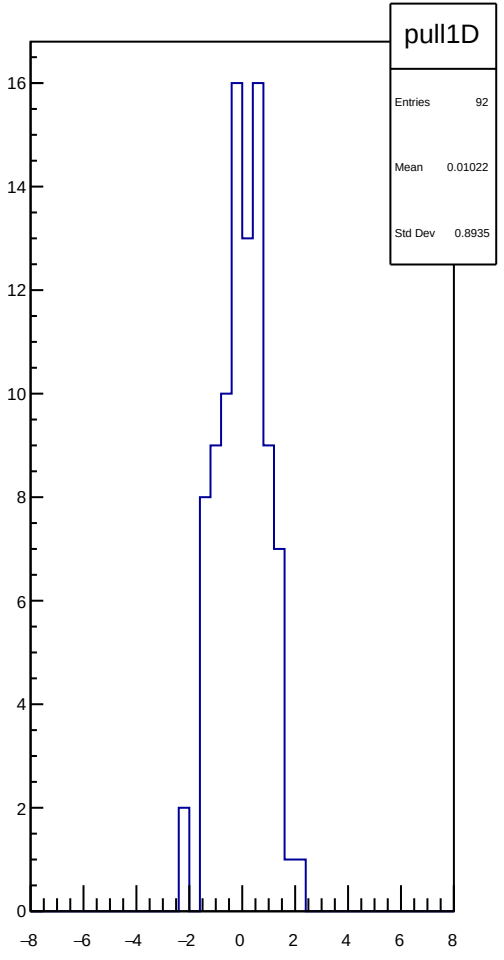

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.38 / 91
p0 −0.1782 ± 0.2148
pull
Entries 92
Mean −109.2
Std Dev 0
pull1D
Entries 92
Mean 0.02512
Std Dev 0.9798

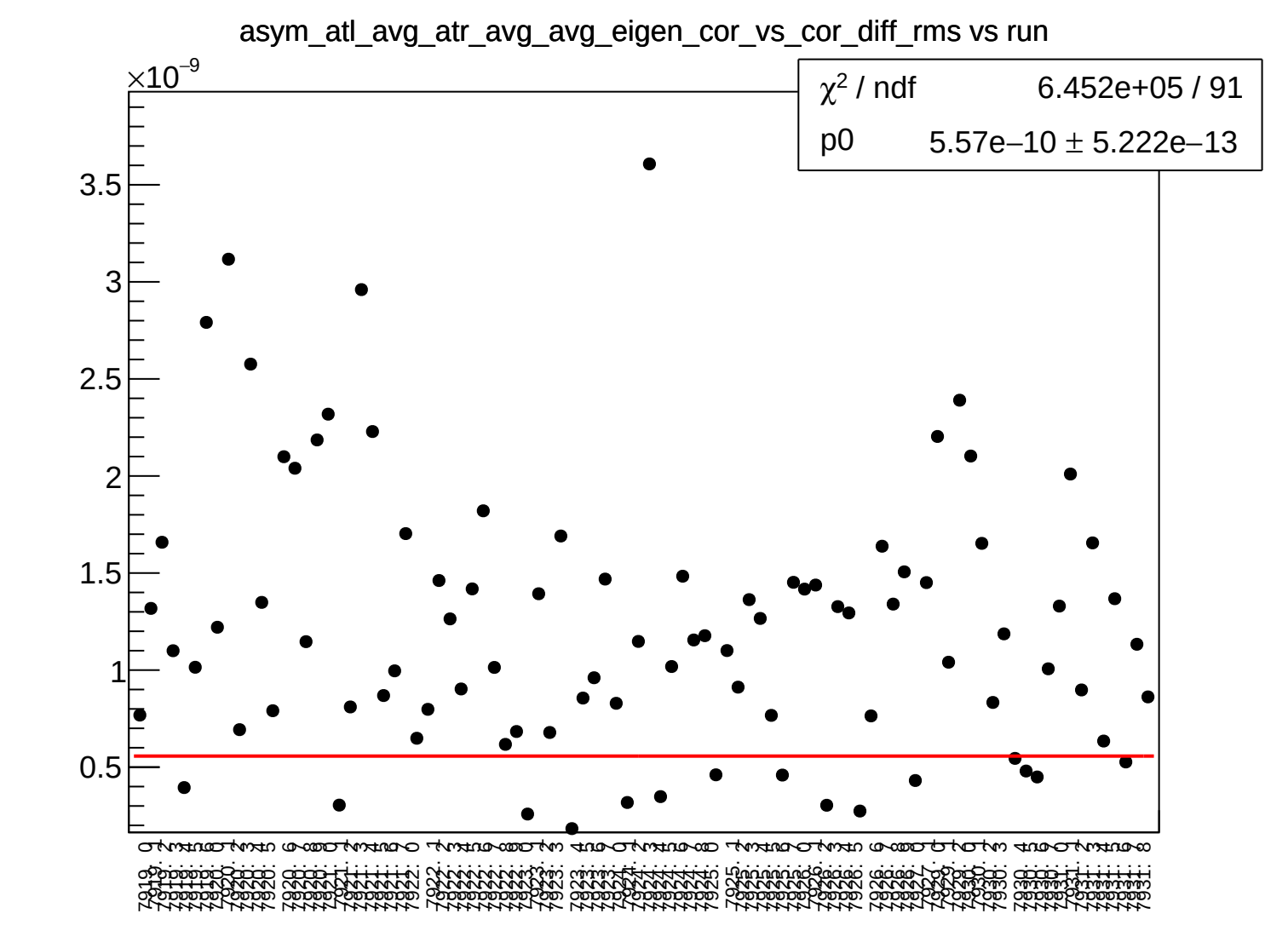

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.268e+04 / 91
p0 202.1 ± 0.1519
260
240
220
200
180
160

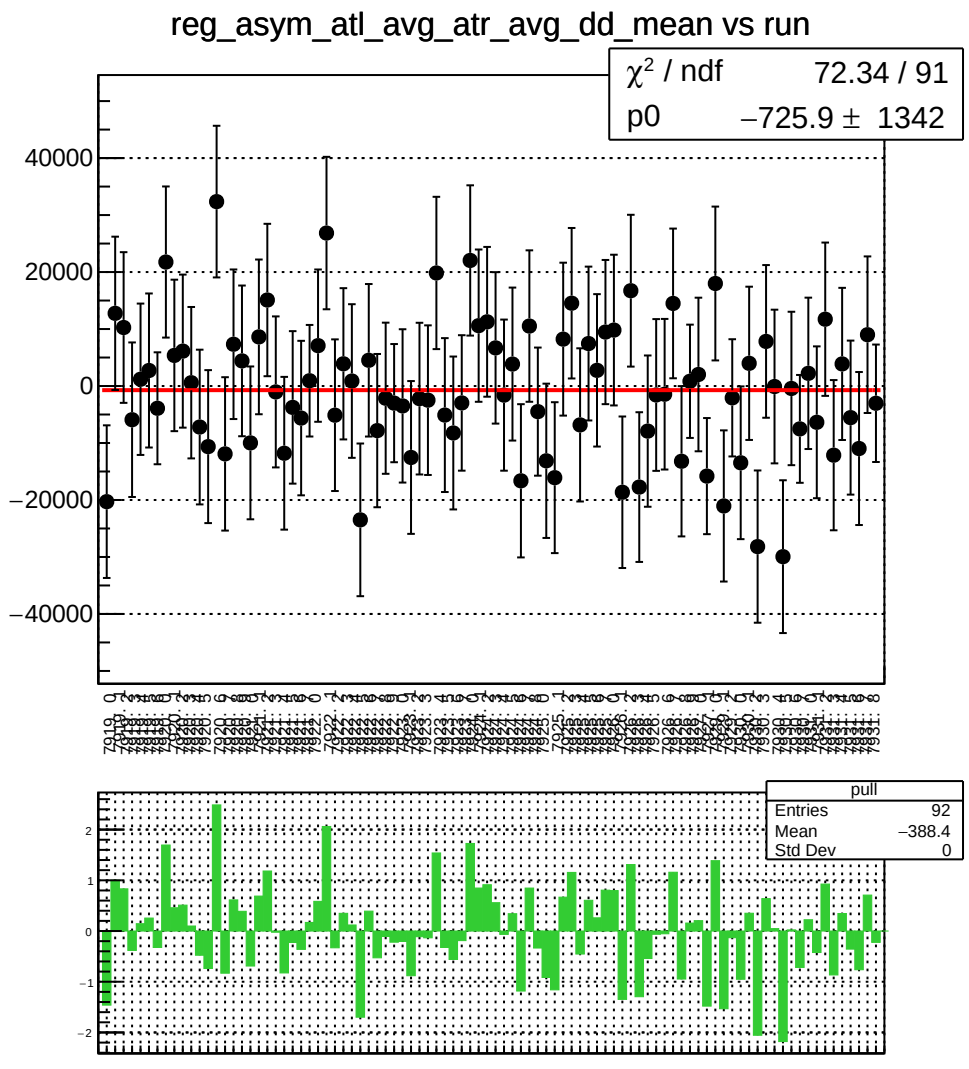

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.38 / 91
p0 −0.1782 ± 0.2148
pull
Entries 92
Mean −109.2
Std Dev 0
pull1D
Entries 92
Mean 0.02512
Std Dev 0.9798

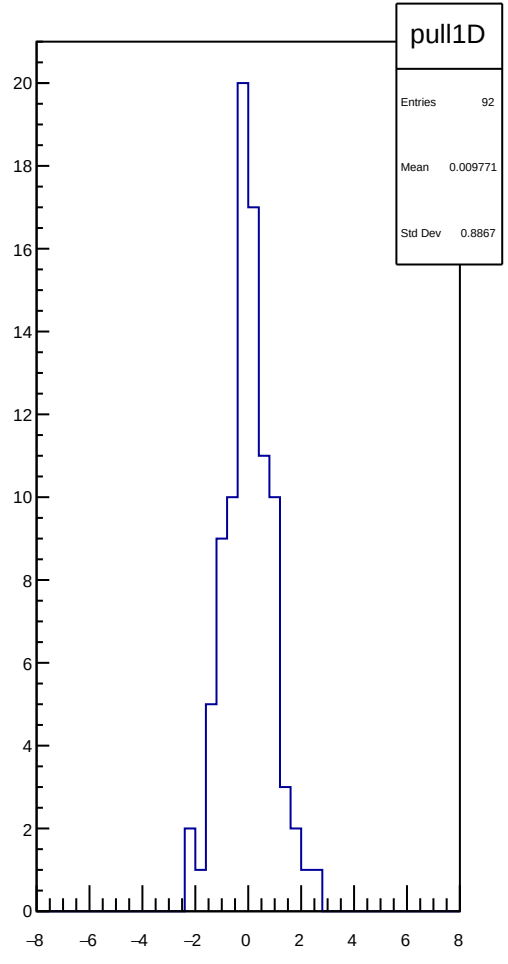

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.268e+04 / 91
p0 202.1 ± 0.1519
260
240
220
200
180
160

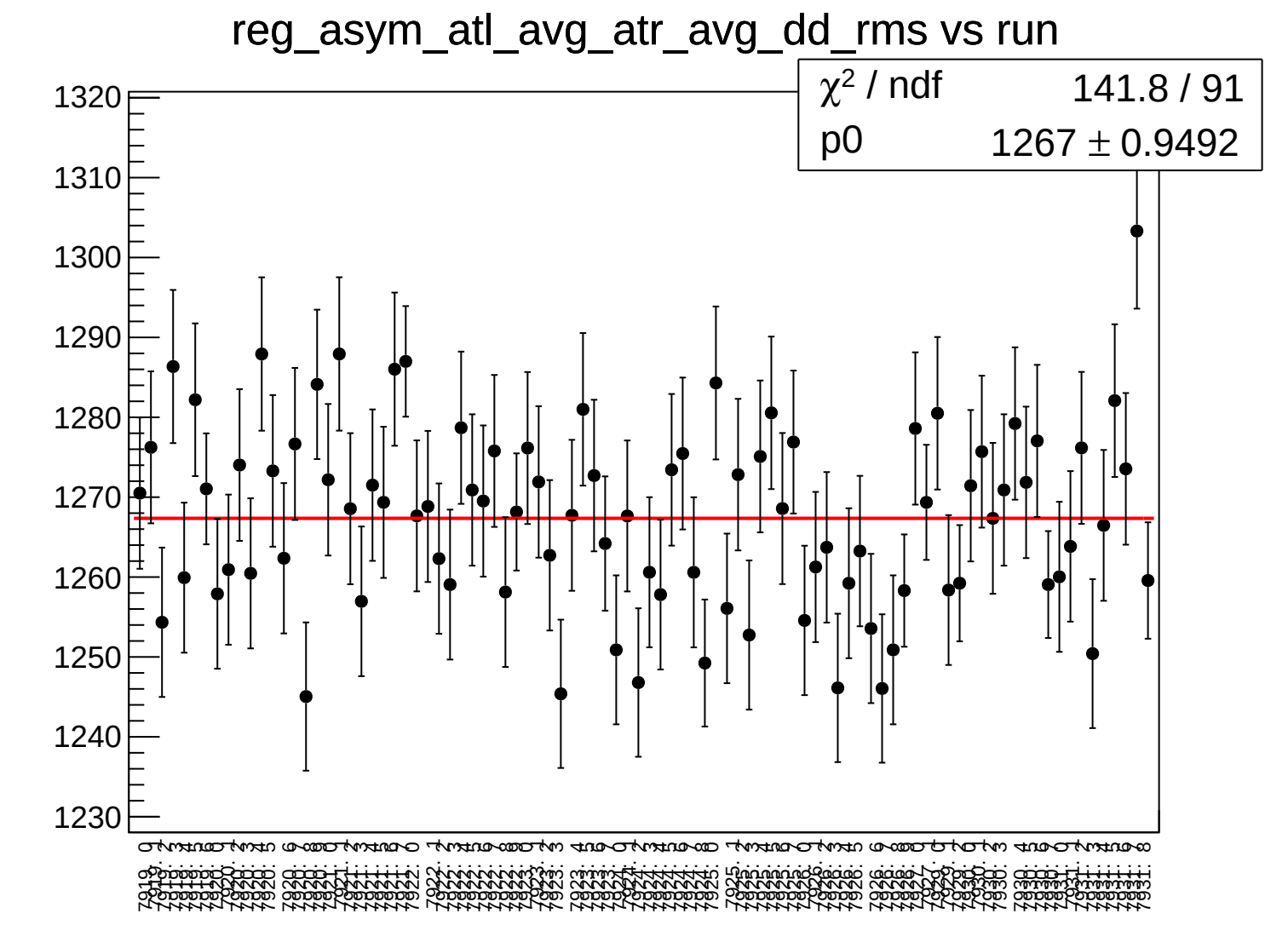

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 73.46 / 91
p0 3.122e−13 ± 7.385e−13
pull
Entries 92
Mean −173.9
Std Dev 0

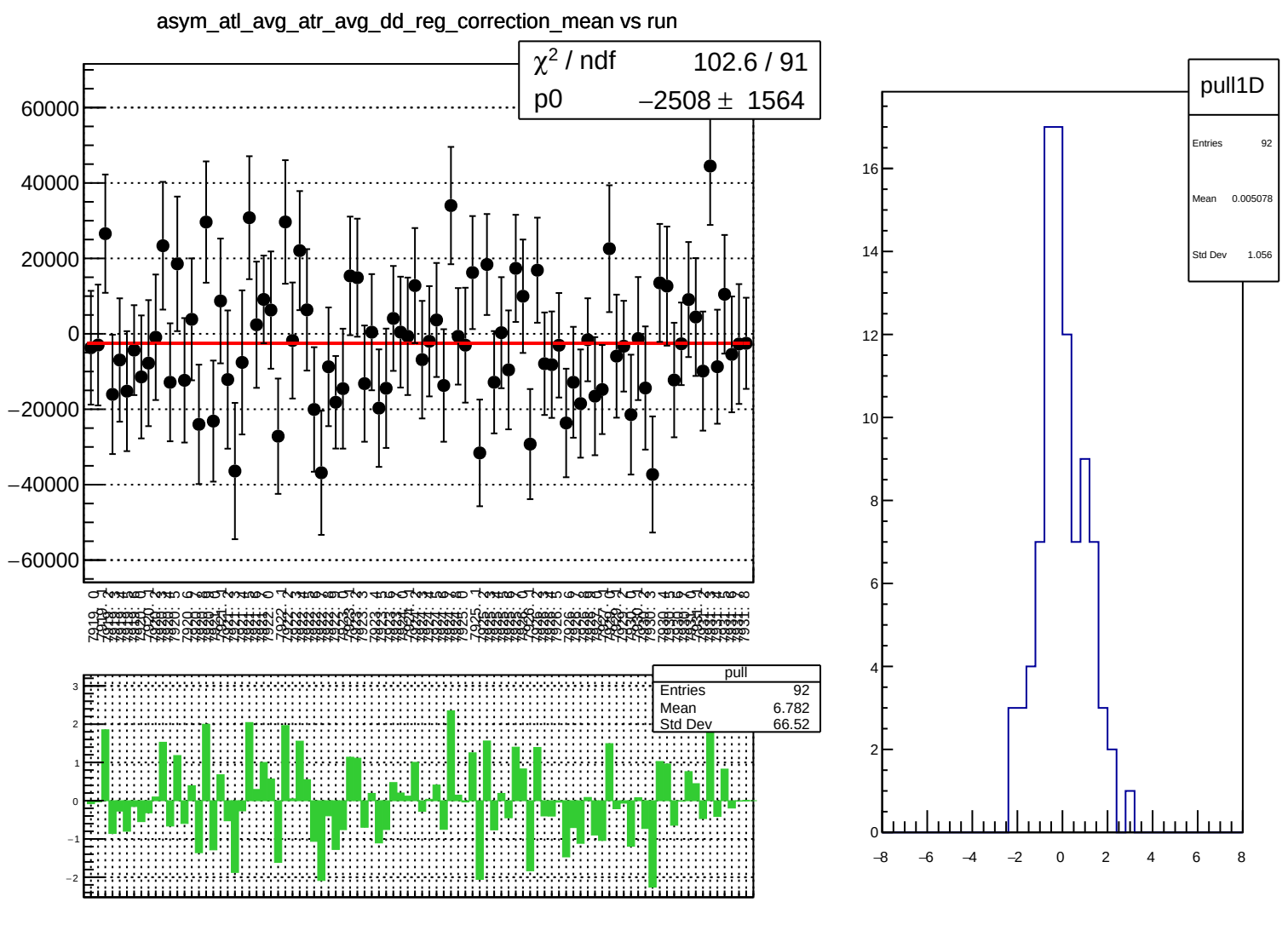

pull1D
Entries 92
Mean 0.01022
Std Dev 0.8935

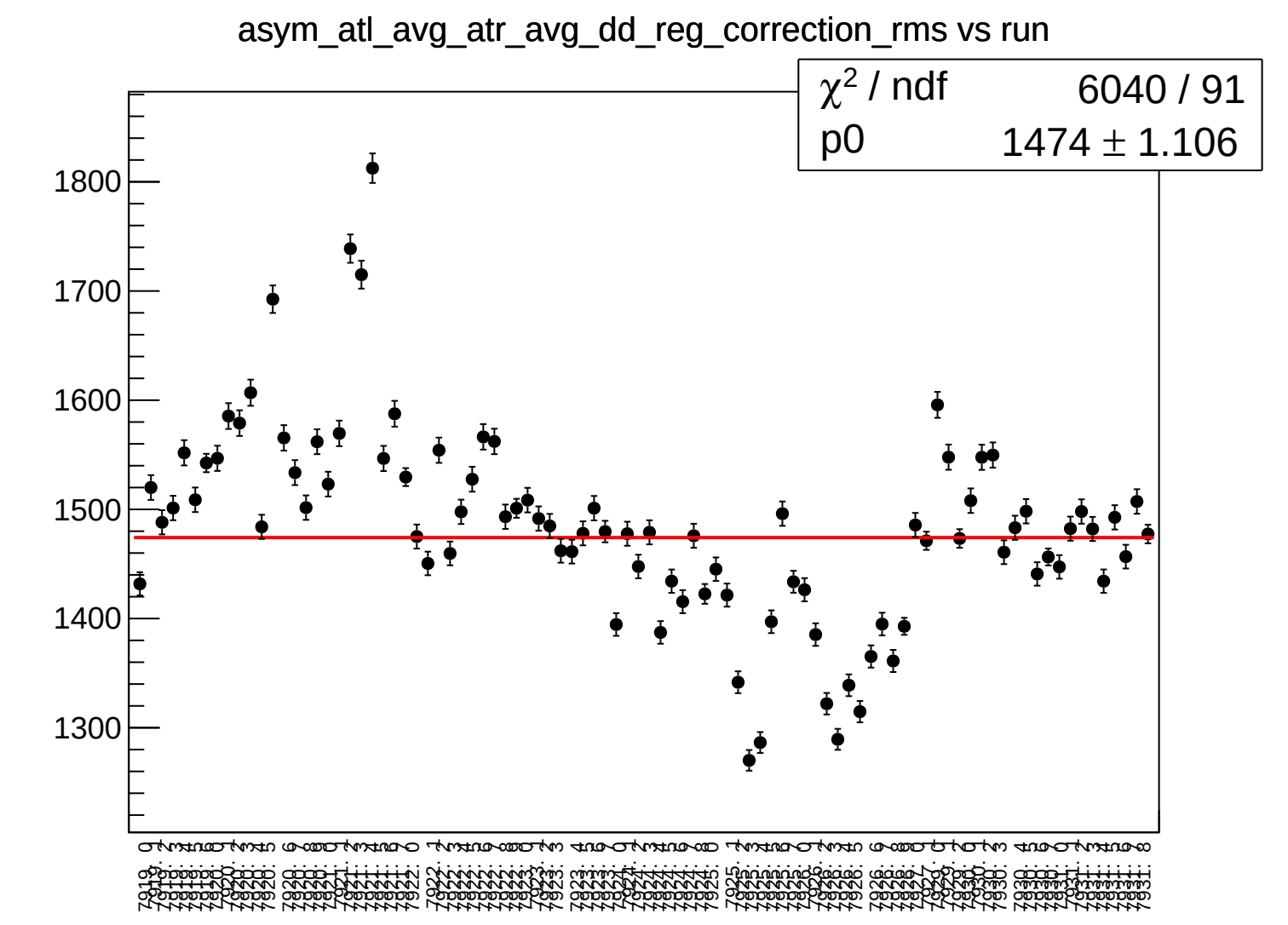

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.452e+05 / 91
p0 5.57e−10 ± 5.222e−13
3.5
3
2.5
2
1.5
1
0.5

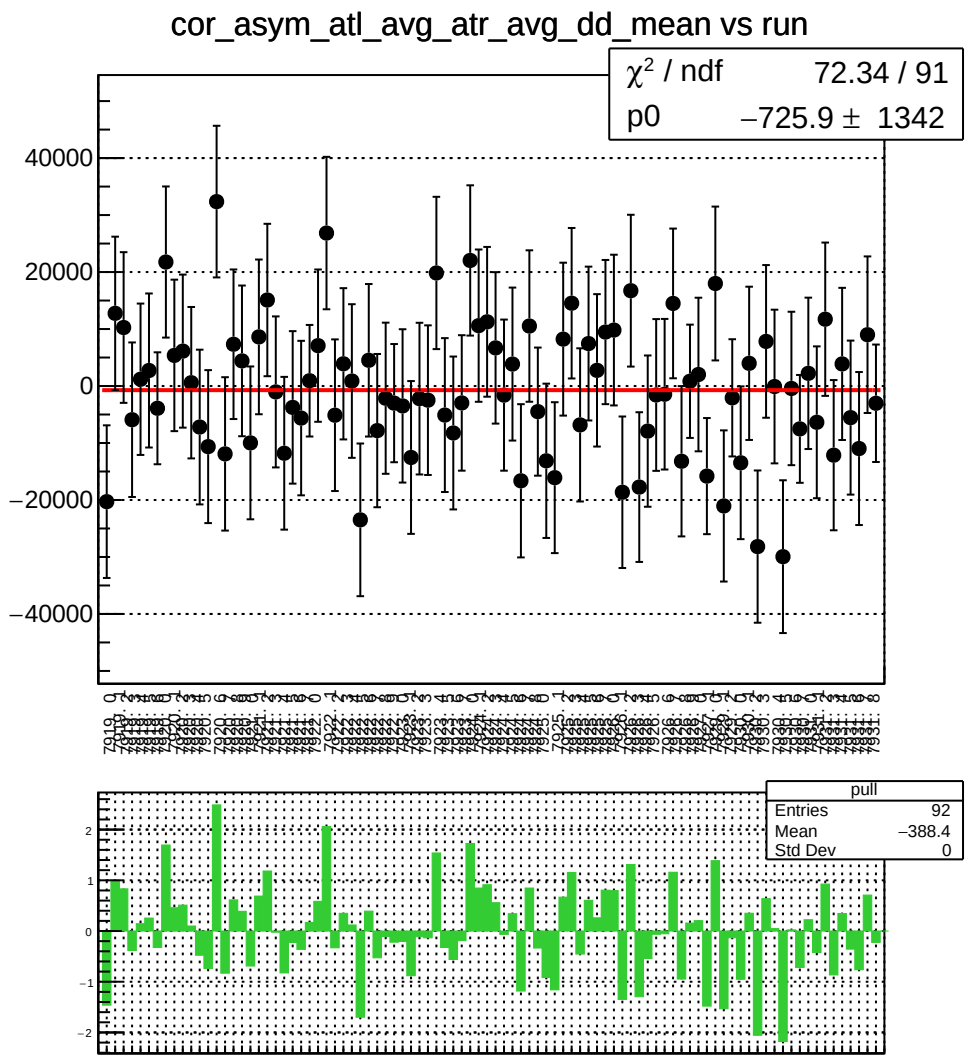

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 72.34 / 91
p0 −725.9 ± 1342
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −388.4
Std Dev 0
2
1
0
−1
−2

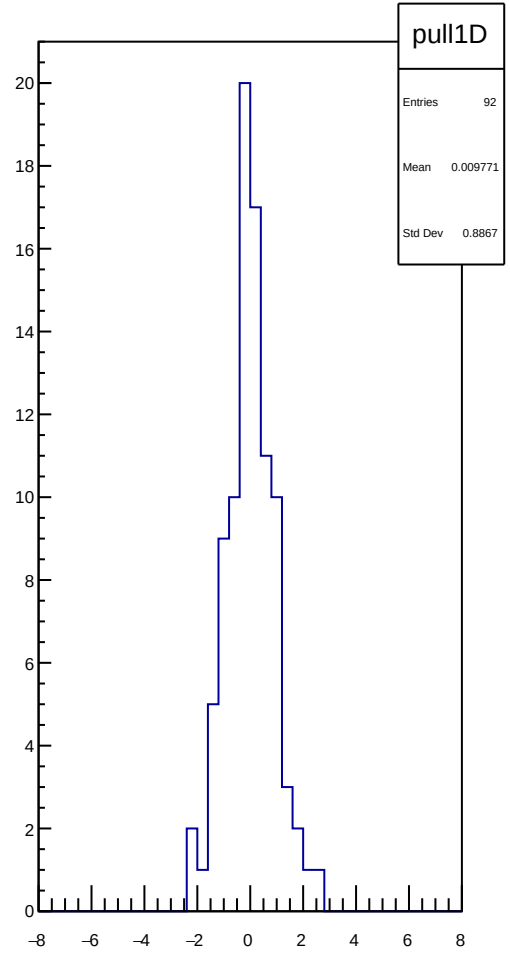

pull1D
Entries 92
Mean 0.009771
Std Dev 0.8867
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

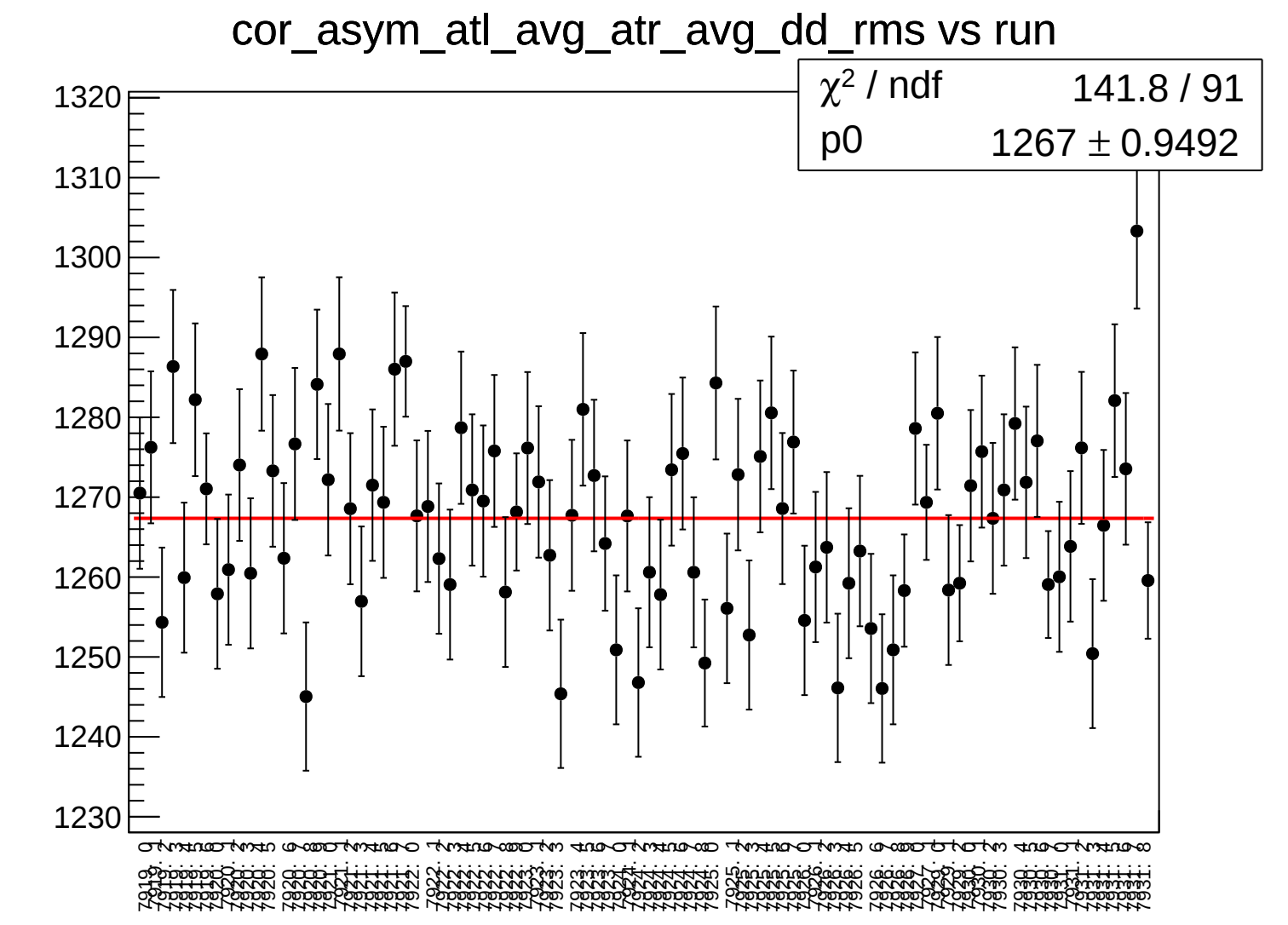

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 141.8 / 91
p0 1267 ± 0.9492
1320
1310
1300
1290
1280
1270
1260
1250
1240
1230

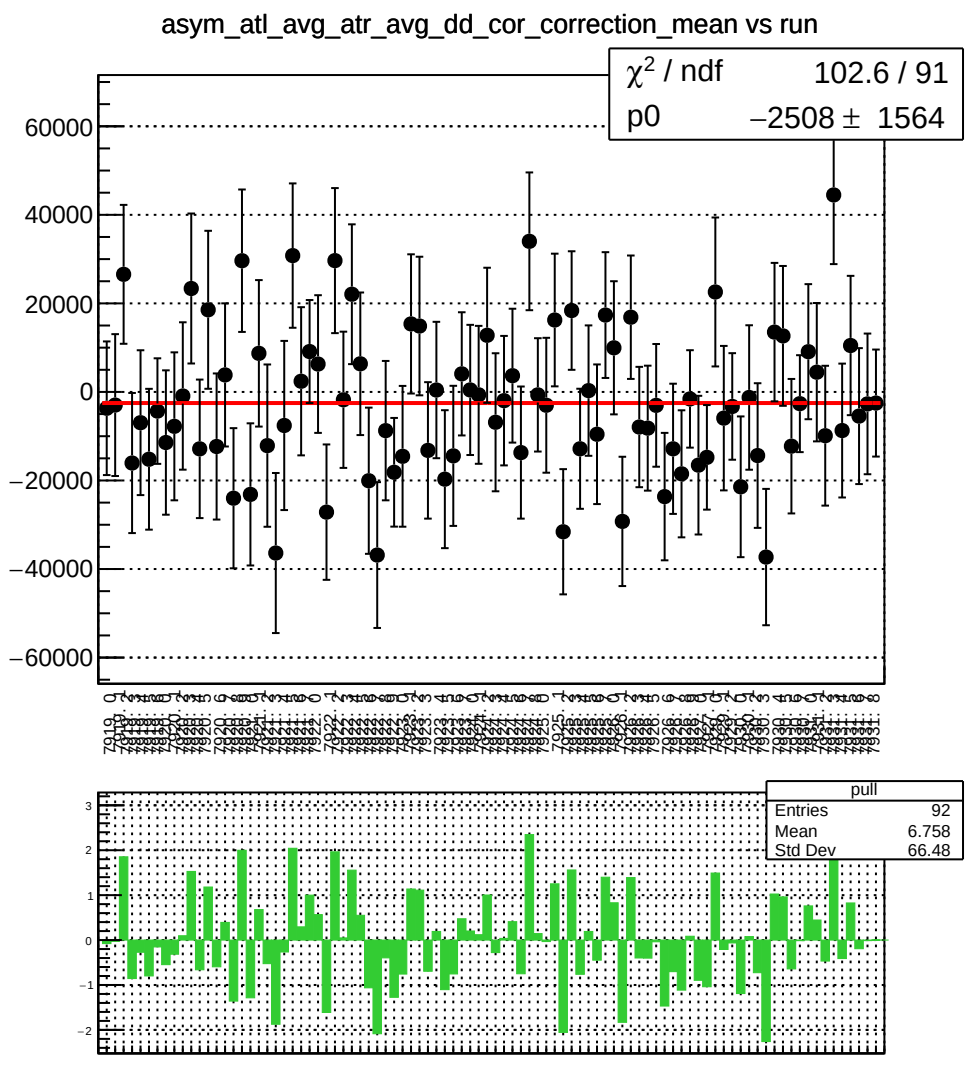

asym_atl_avg_atr_avg_dd_reg_correction_mean vs run
χ² / ndf 102.6 / 91
p0 −2508 ± 1564
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 6.782
Std Dev 66.52
3
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.005078
Std Dev 1.056
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

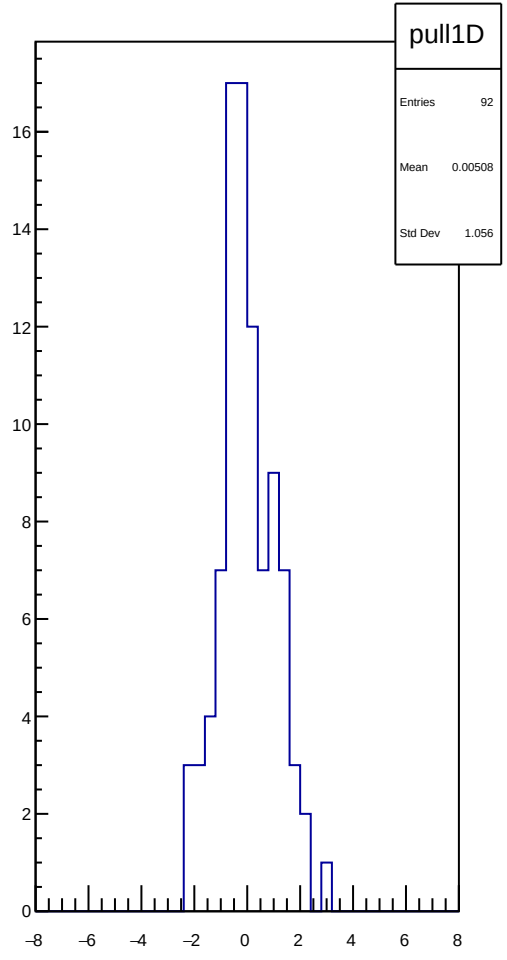

asym_atl_avg_atr_avg_dd_reg_correction_rms vs run
χ² / ndf 6040 / 91
p0 1474 ± 1.106
1800
1700
1600
1500
1400
1300

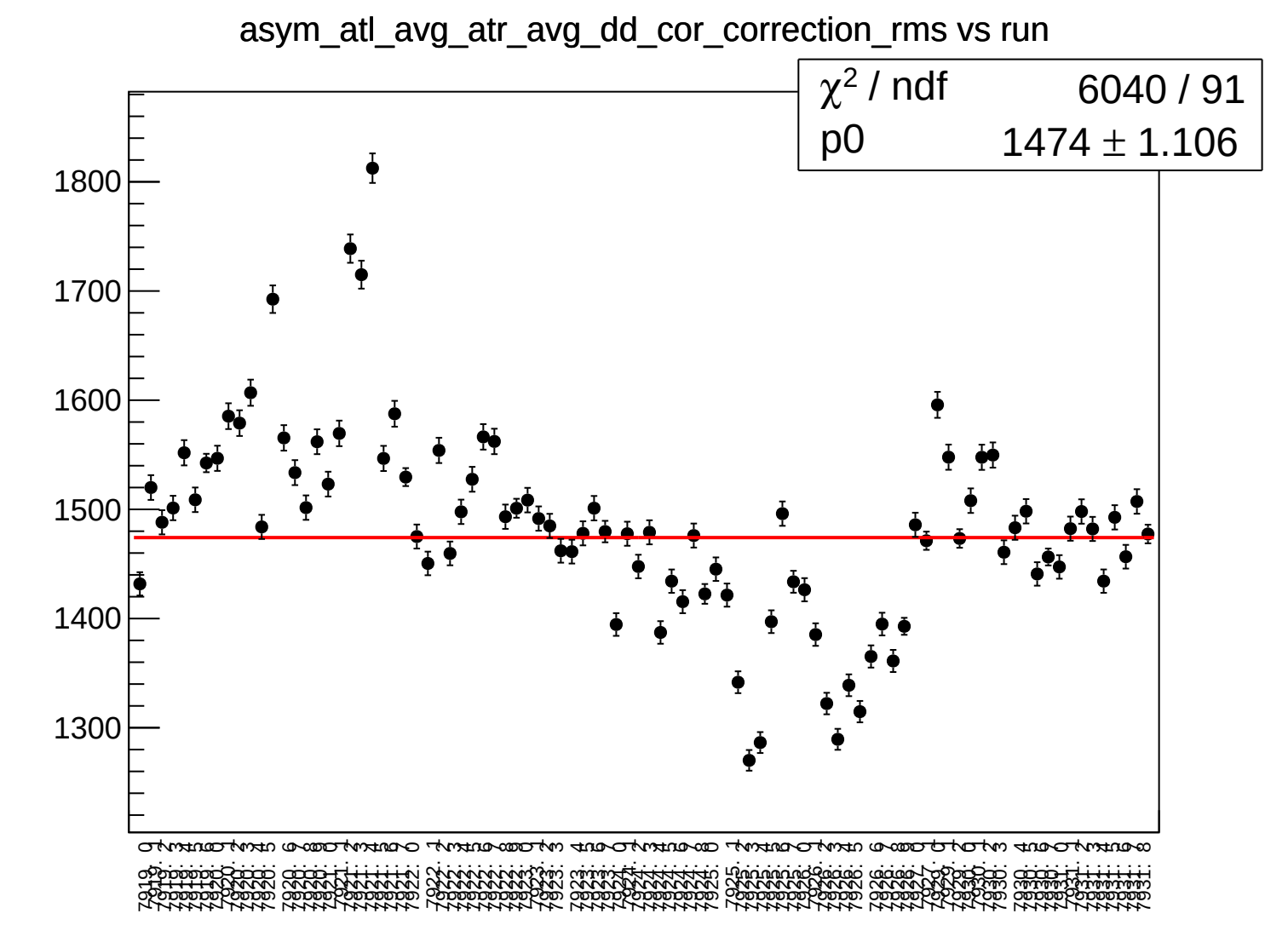

cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 72.34 / 91
p0 −725.9 ± 1342
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −388.4
Std Dev 0
2
1
0
−1
−2

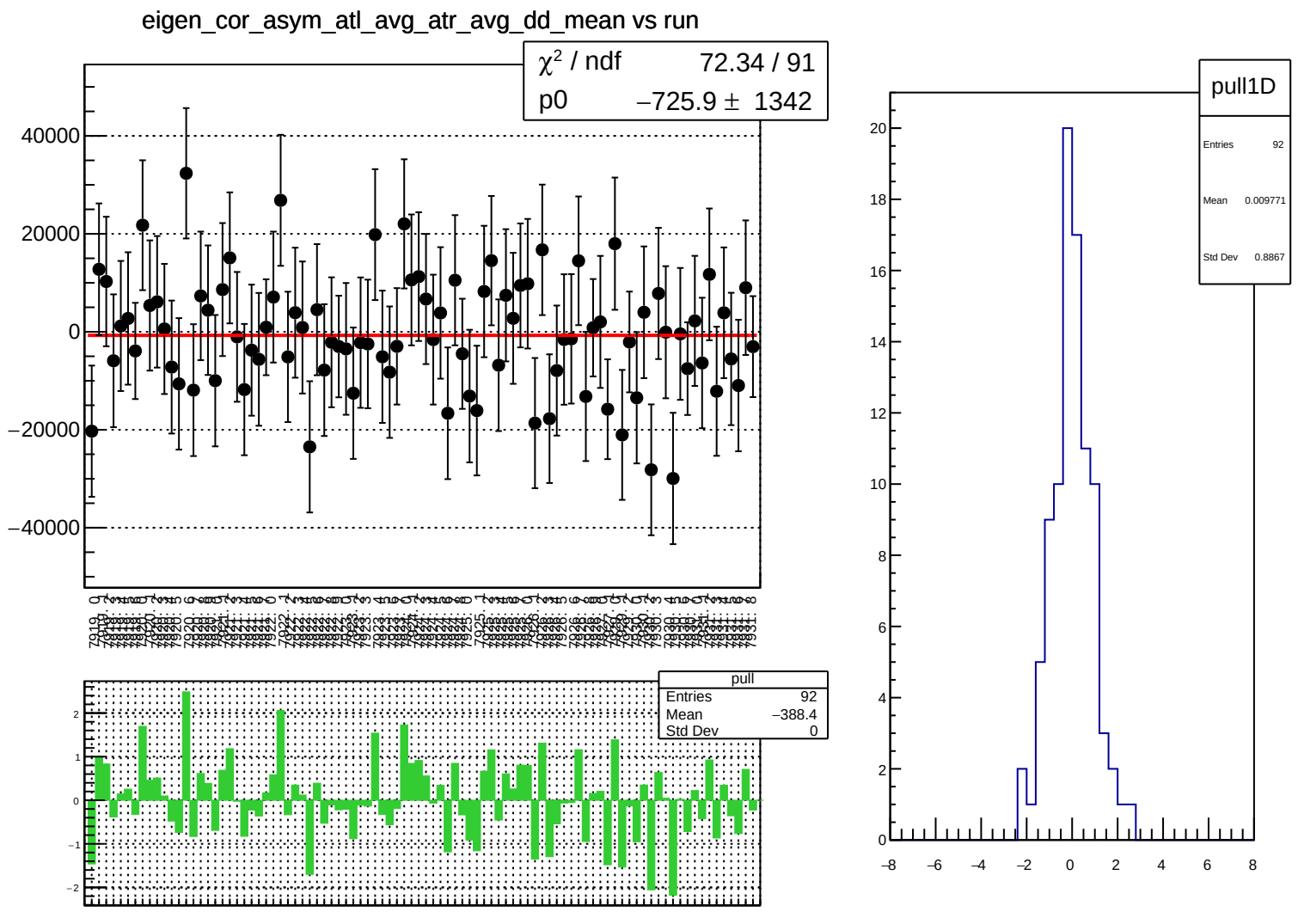

pull1D
Entries 92
Mean 0.009771
Std Dev 0.8867
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

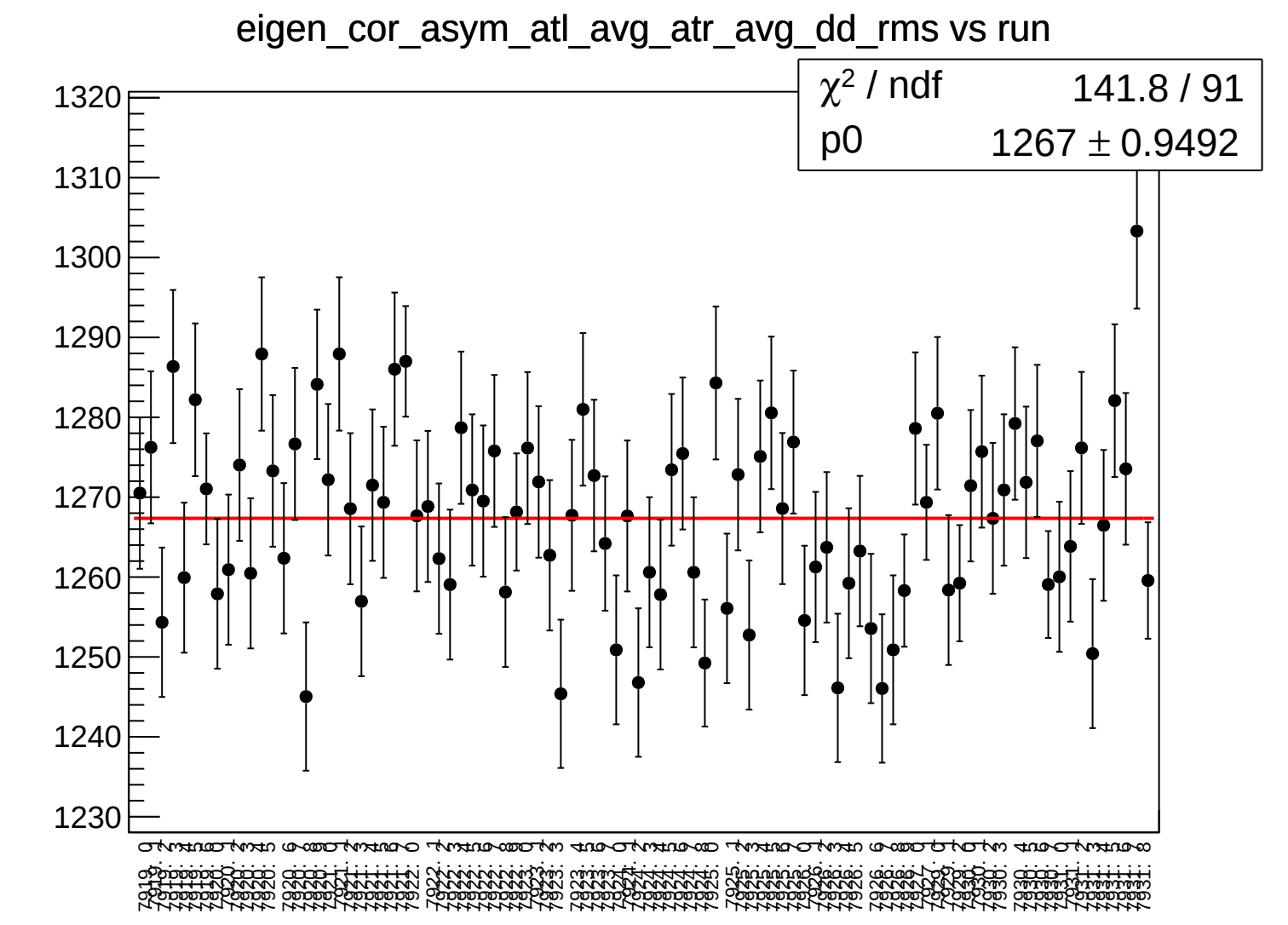

cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 141.8 / 91
p0 1267 ± 0.9492
1320
1310
1300
1290
1280
1270
1260
1250
1240
1230

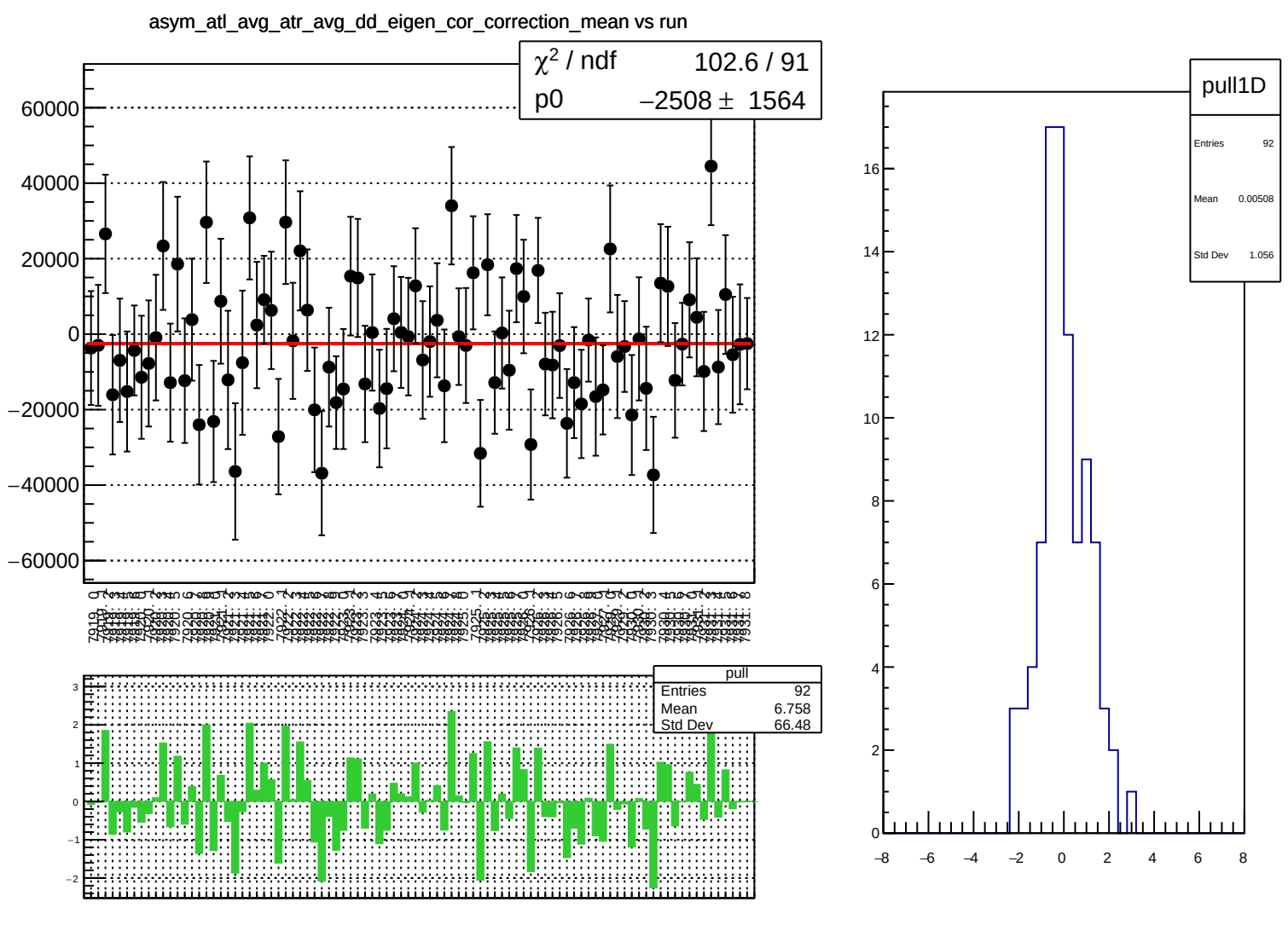

asym_atl_avg_atr_avg_dd_cor_correction_mean vs run
χ² / ndf 102.6 / 91
p0 −2508 ± 1564
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 6.758
Std Dev 66.48
3
2
1
0
−1
−2

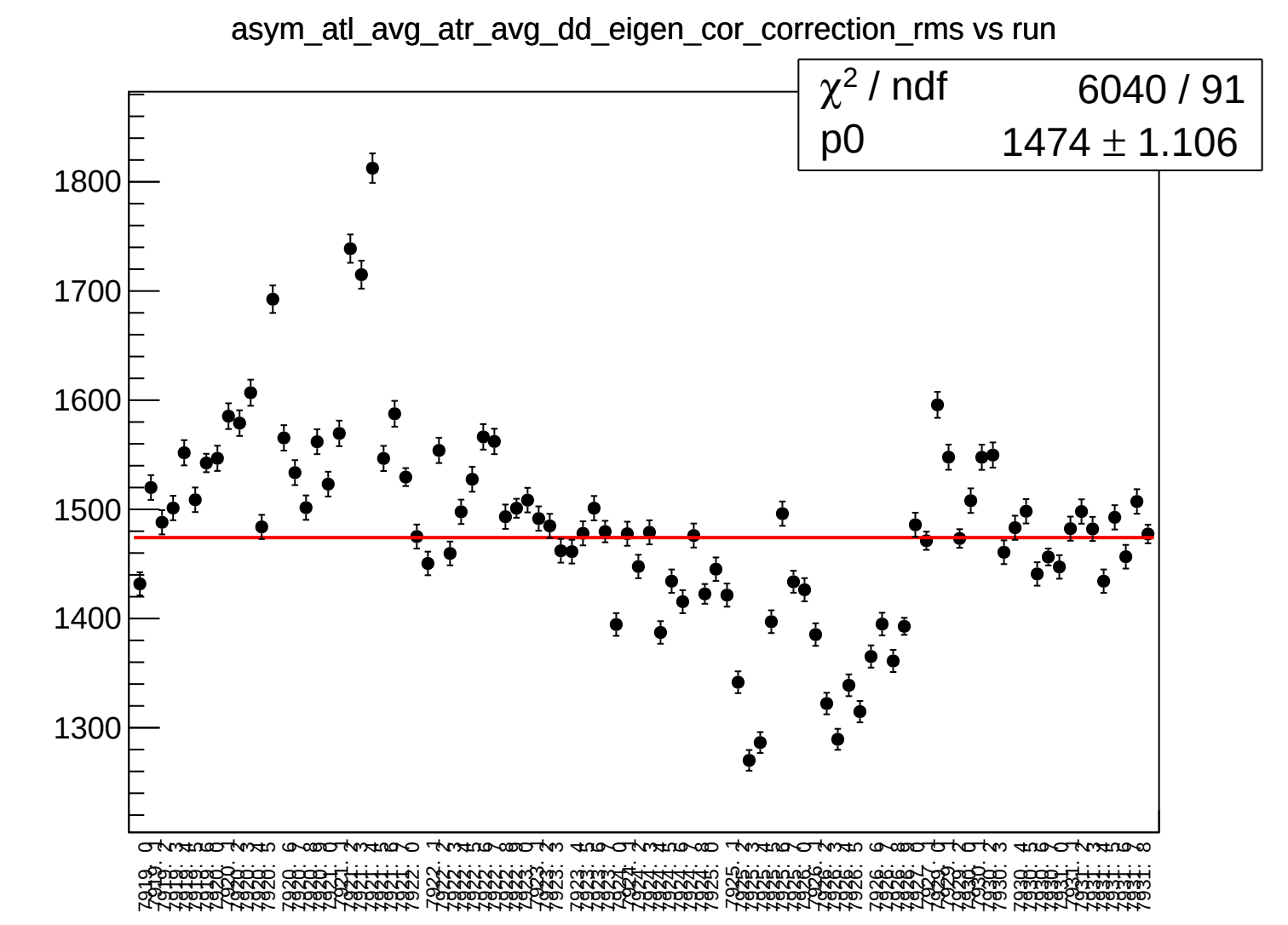

pull1D
Entries 92
Mean 0.00508
Std Dev 1.056
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

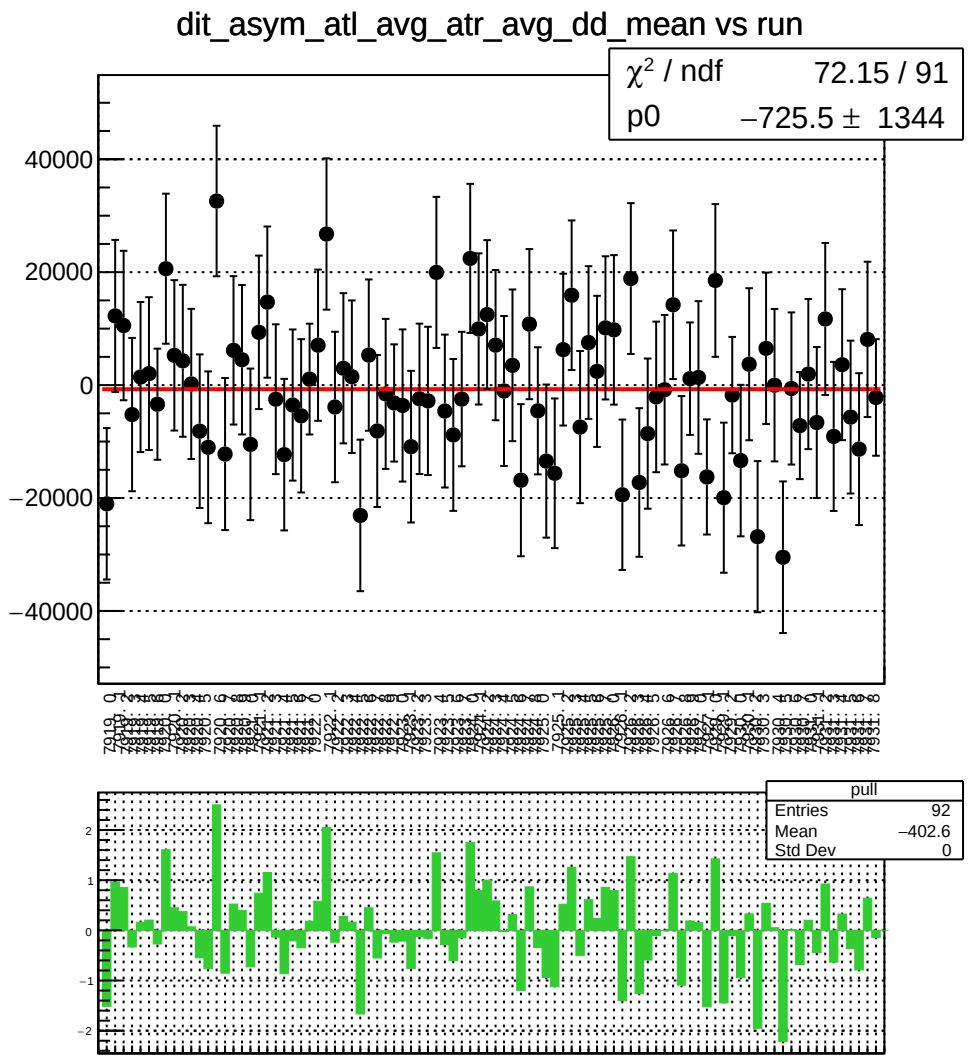

asym_atl_avg_atr_avg_dd_cor_correction_rms vs run
χ² / ndf 6040 / 91
p0 1474 ± 1.106
1800
1700
1600
1500
1400
1300

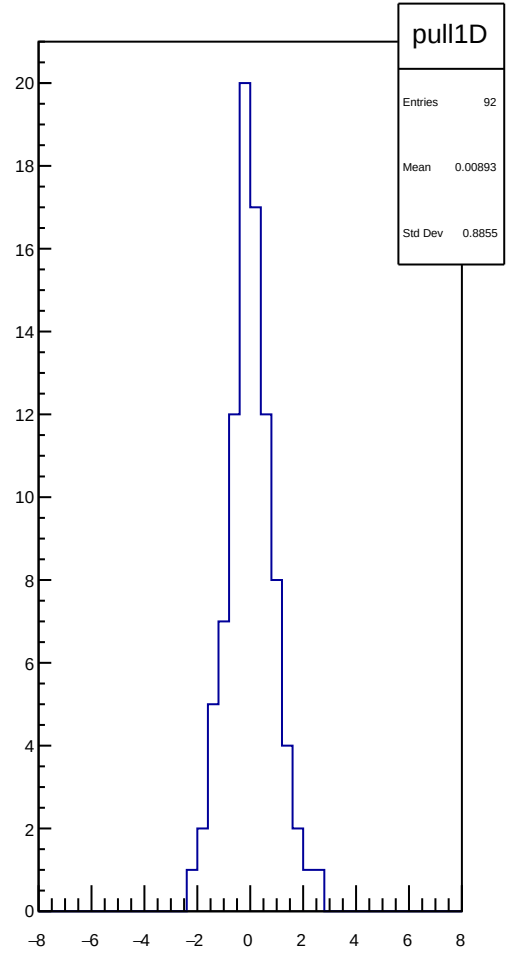

eigen_cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 72.34 / 91
p0 −725.9 ± 1342
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −388.4
Std Dev 0
pull1D
Entries 92
Mean 0.009771
Std Dev 0.8867

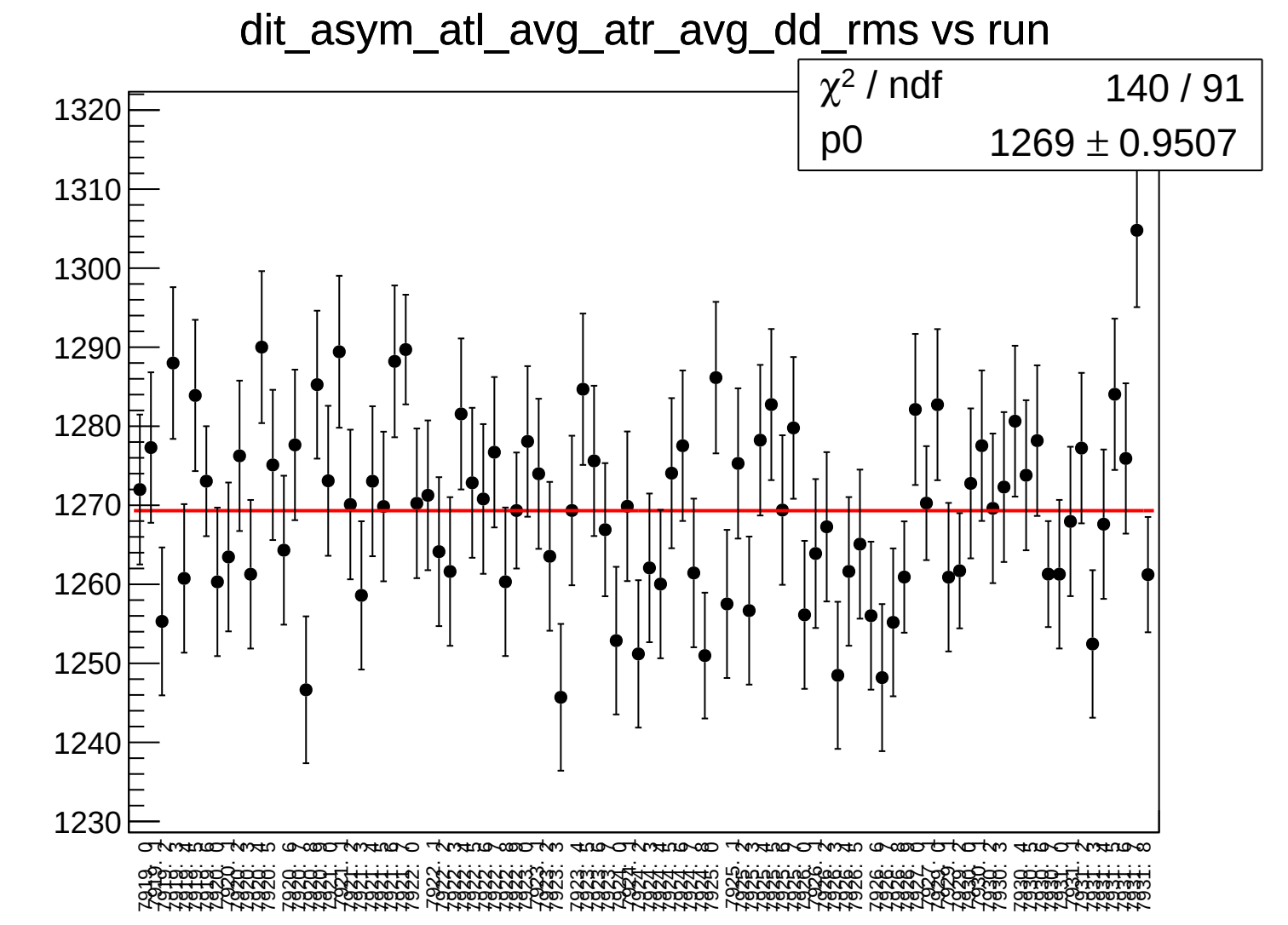

eigen_cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 141.8 / 91
p0 1267 ± 0.9492
1320
1310
1300
1290
1280
1270
1260
1250
1240
1230

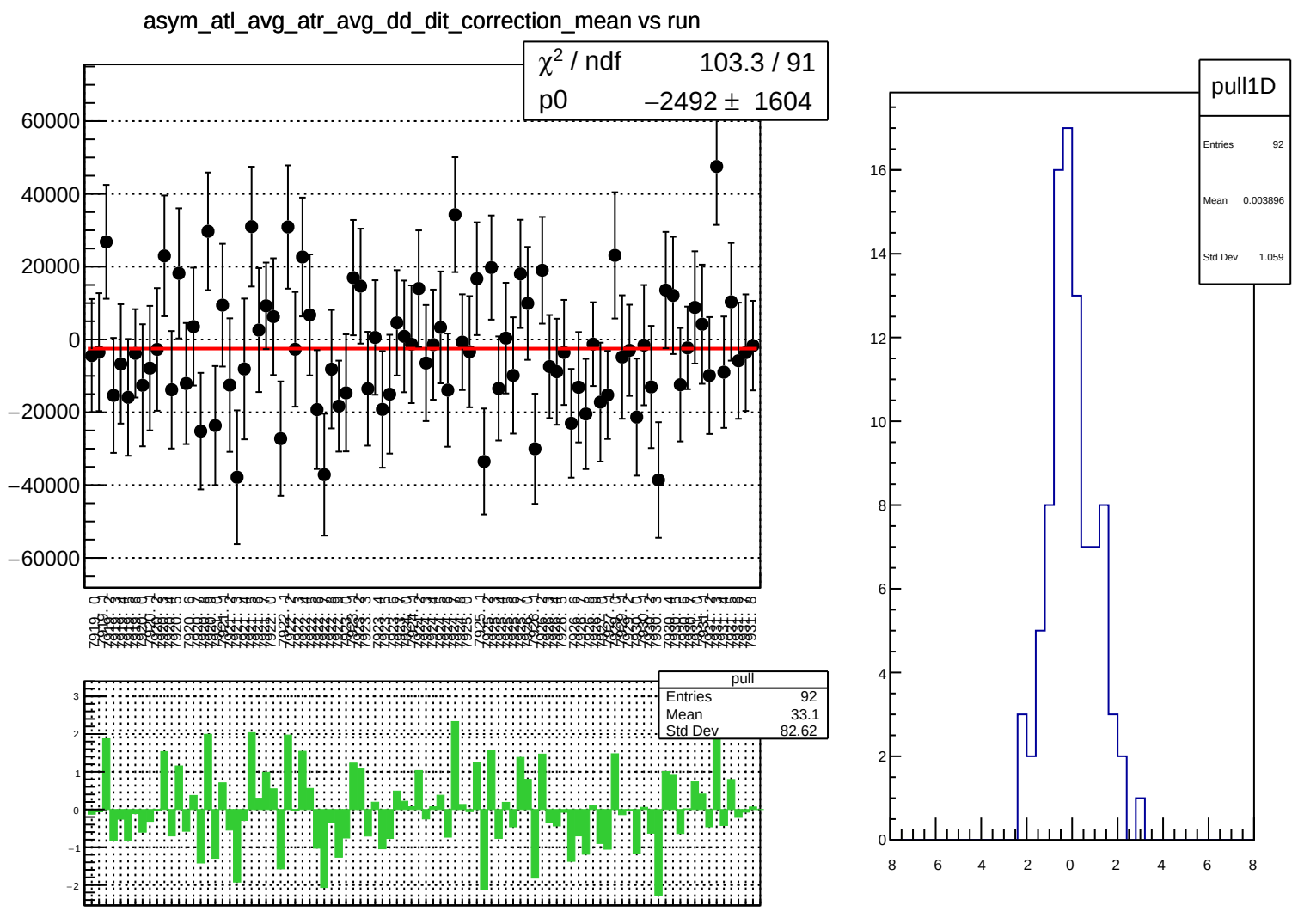

asym_atl_avg_atr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 102.6 / 91
p0 −2508 ± 1564
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 6.758
Std Dev 66.48
3
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.00508
Std Dev 1.056
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

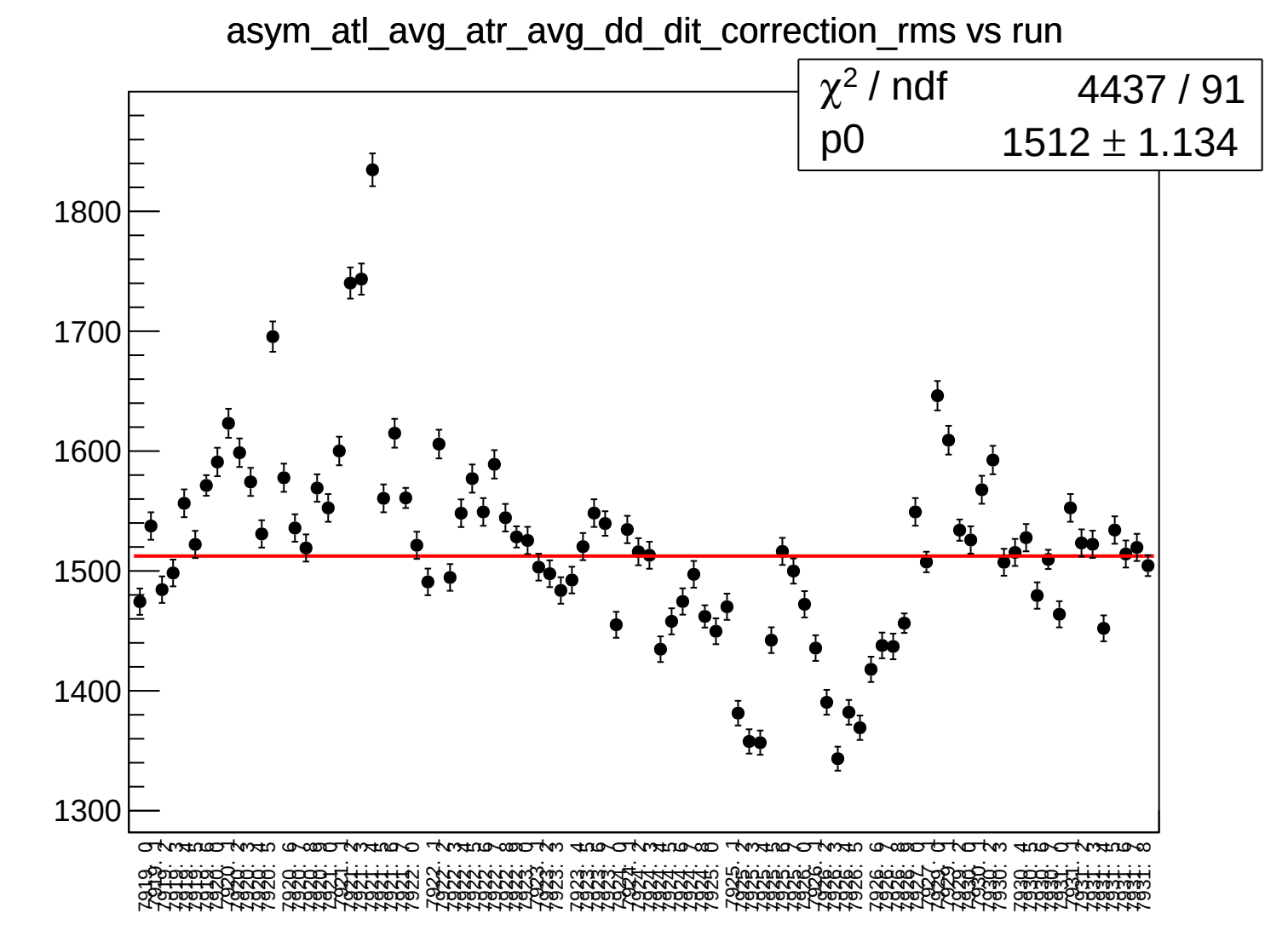

asym_atl_avg_atr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 6040 / 91
p0 1474 ± 1.106
1800
1700
1600
1500
1400
1300

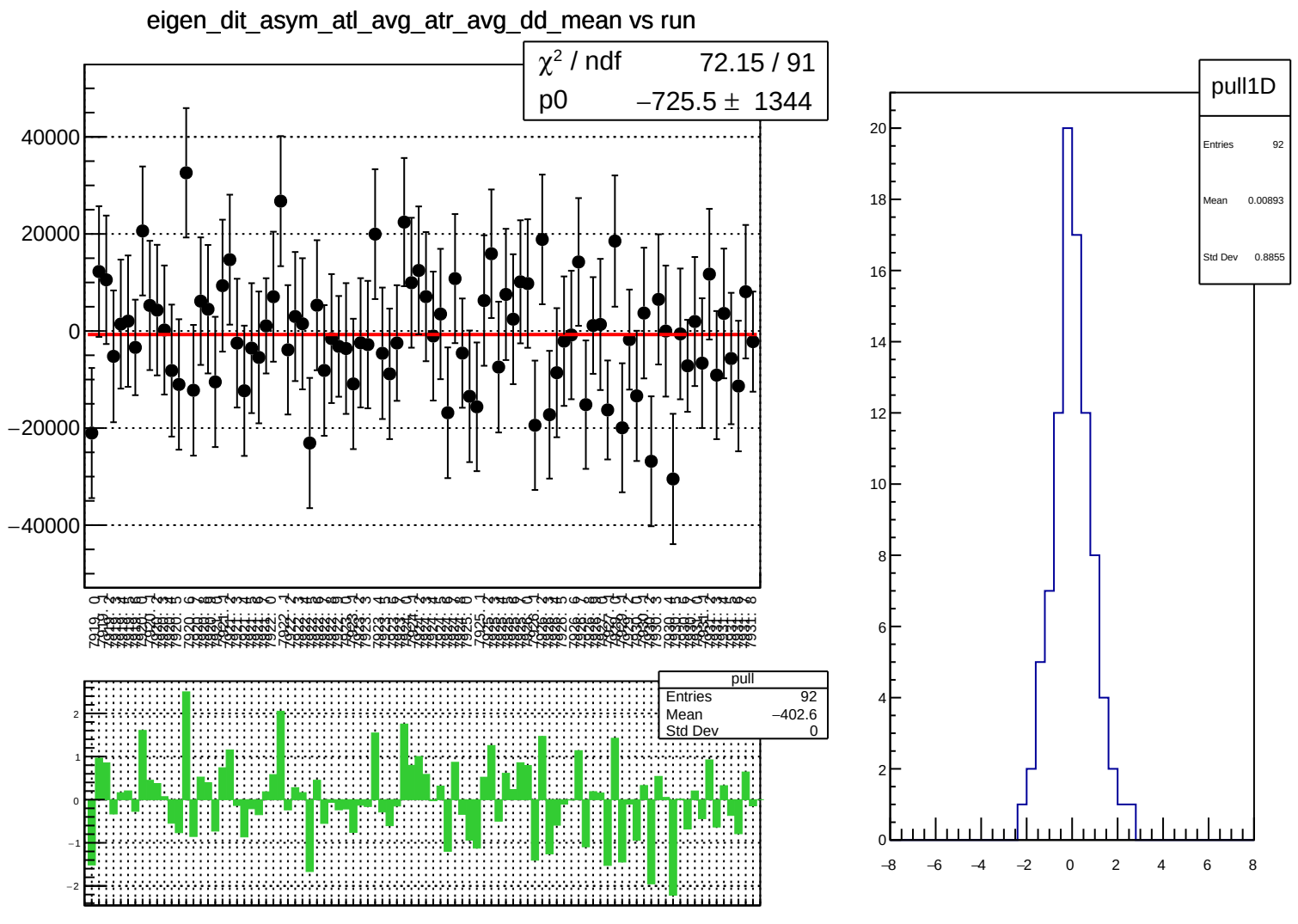

dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 72.15 / 91
p0 −725.5 ± 1344
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −402.6
Std Dev 0
2
1
0
−1
−2

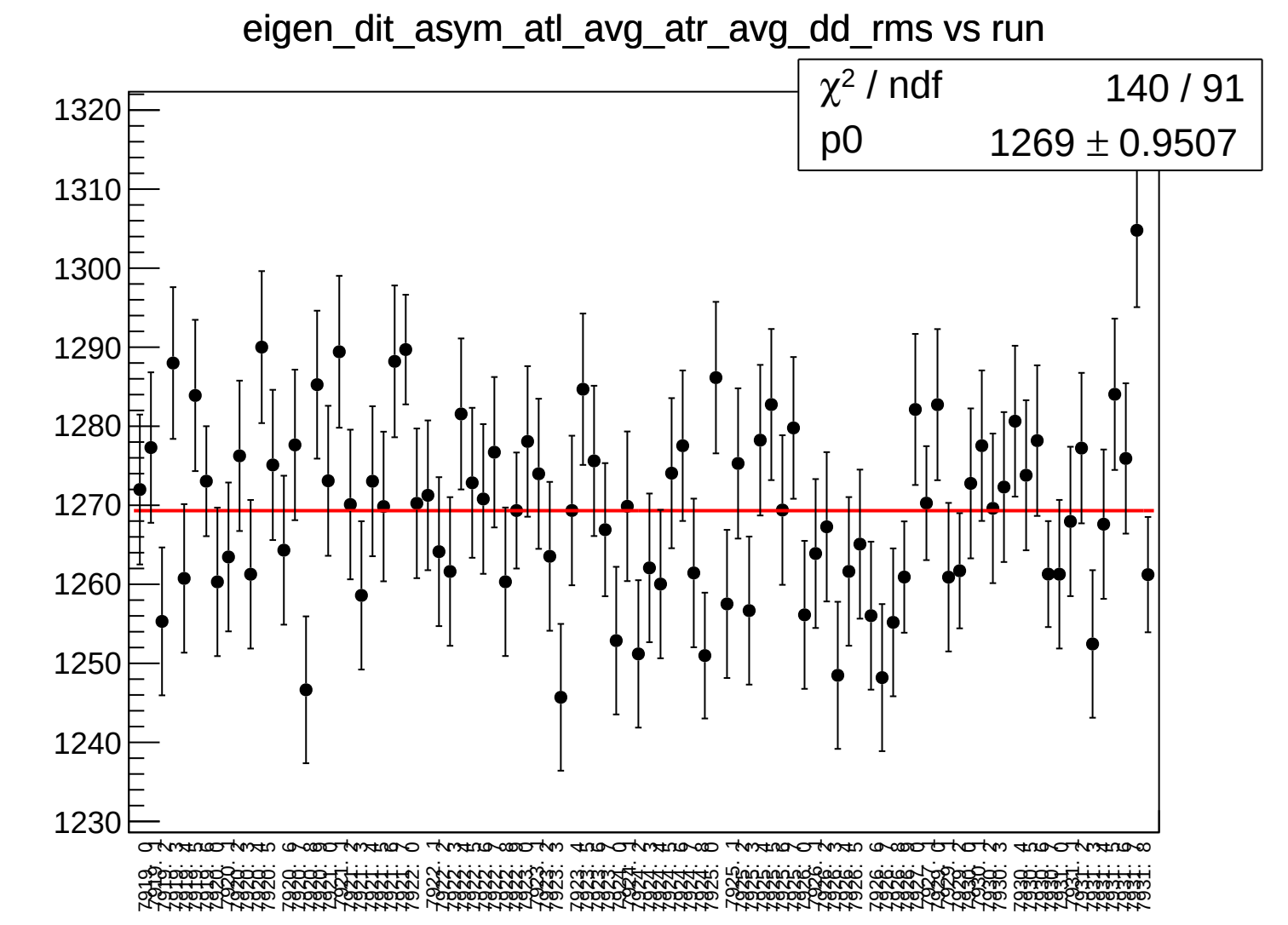

pull1D
Entries 92
Mean 0.00893
Std Dev 0.8855
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

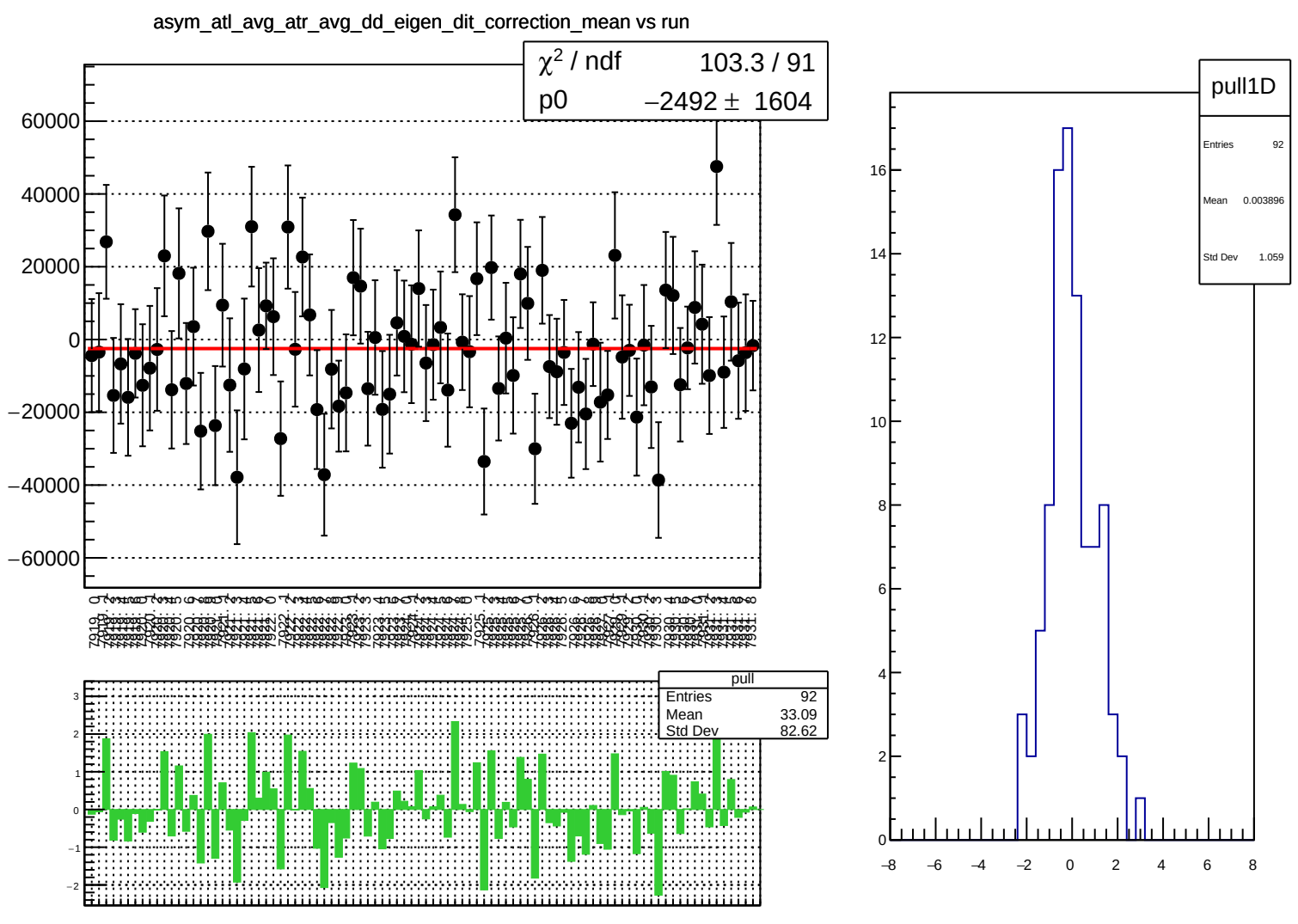

dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 140 / 91
p0 1269 ± 0.9507
1320
1310
1300
1290
1280
1270
1260
1250
1240
1230

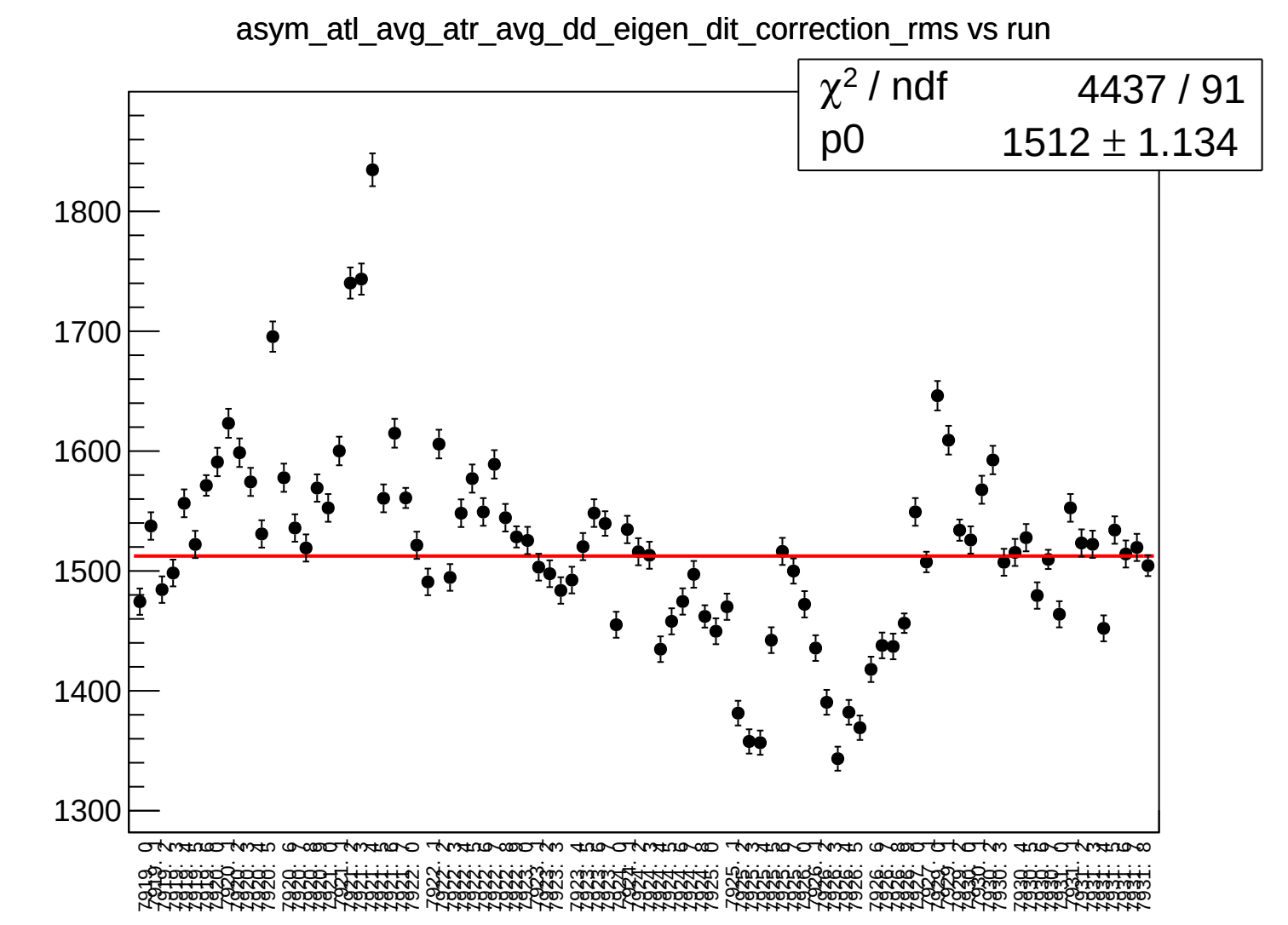

asym_atl_avg_atr_avg_dd_dit_correction_mean vs run
χ² / ndf 103.3 / 91
p0 −2492 ± 1604
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 33.1
Std Dev 82.62
3
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.003896
Std Dev 1.059
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

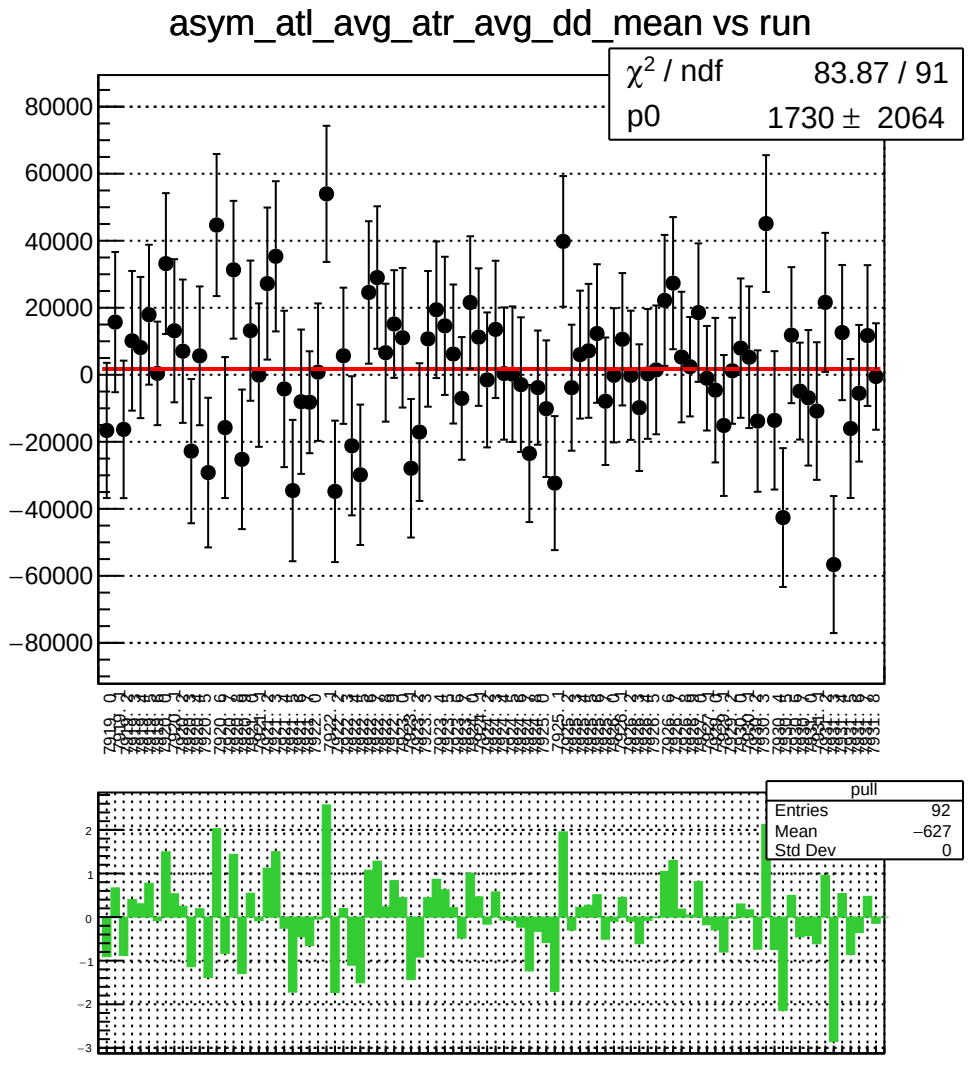

asym_atl_avg_atr_avg_dd_dit_correction_rms vs run
χ² / ndf 4437 / 91
p0 1512 ± 1.134
1800
1700
1600
1500
1400
1300

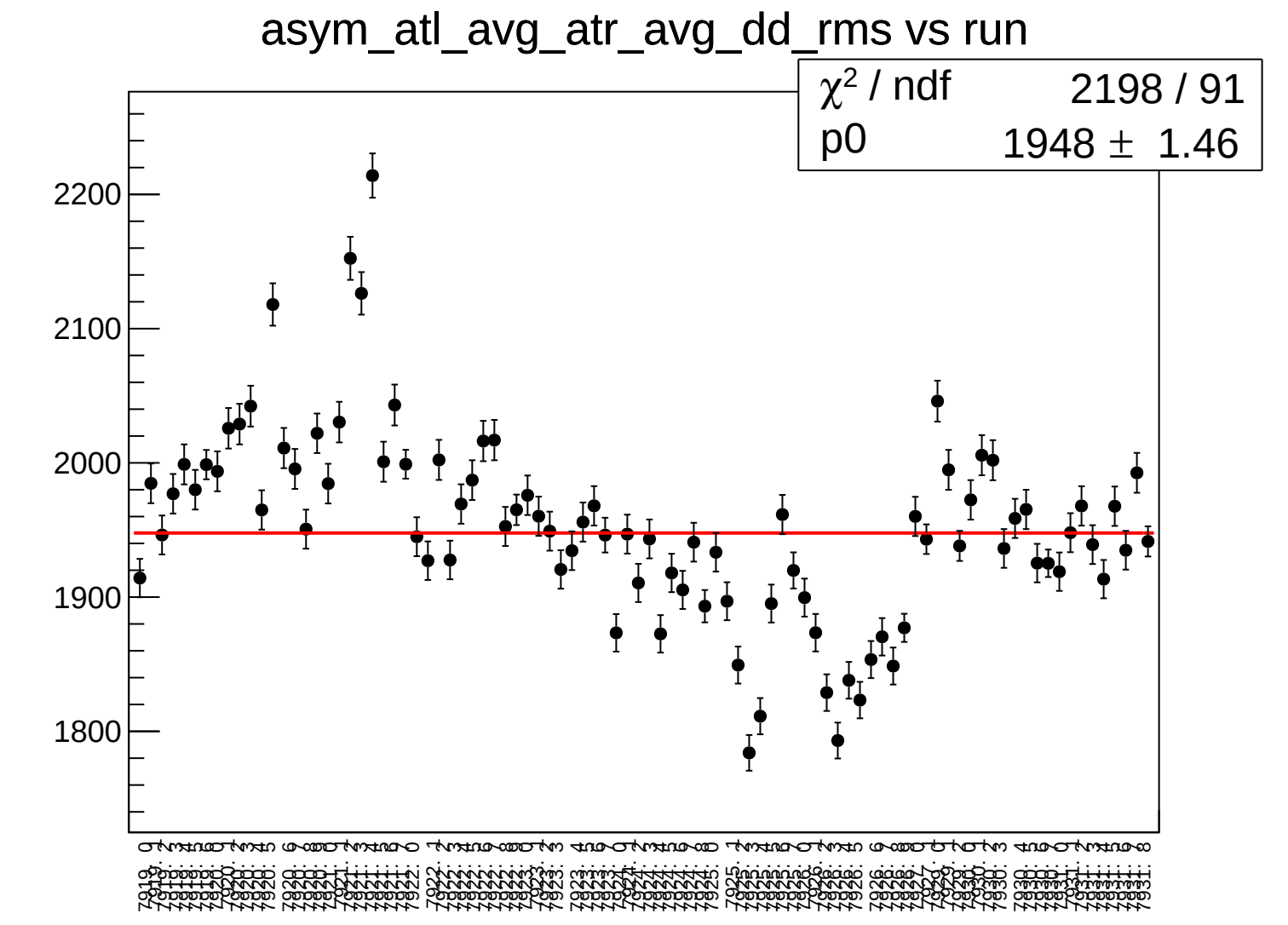

eigen_dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 72.15 / 91
p0 −725.5 ± 1344
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −402.6
Std Dev 0
pull1D
Entries 92
Mean 0.00893
Std Dev 0.8855

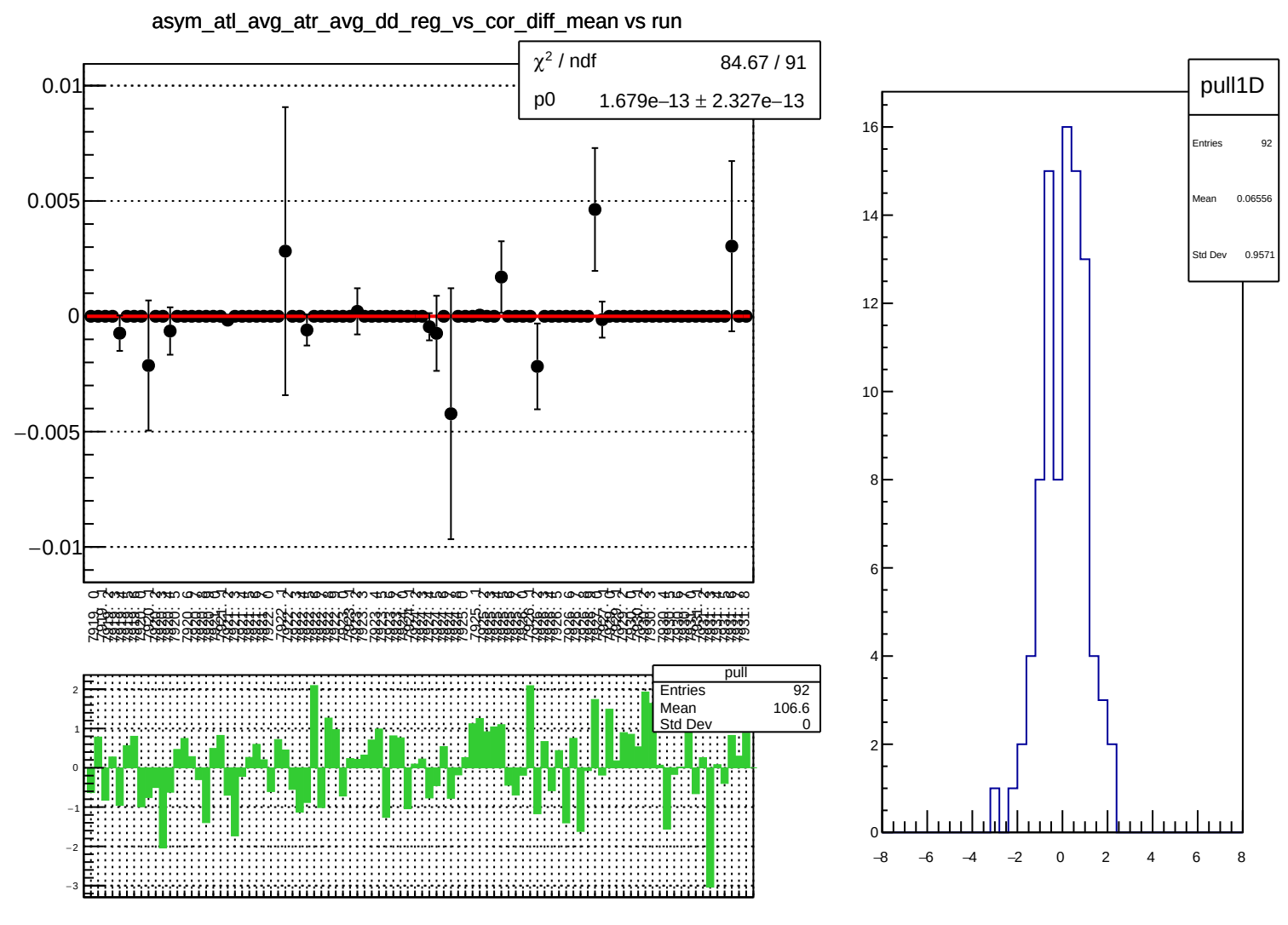

eigen_dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 140 / 91
p0 1269 ± 0.9507
1320
1310
1300
1290
1280
1270
1260
1250
1240
1230

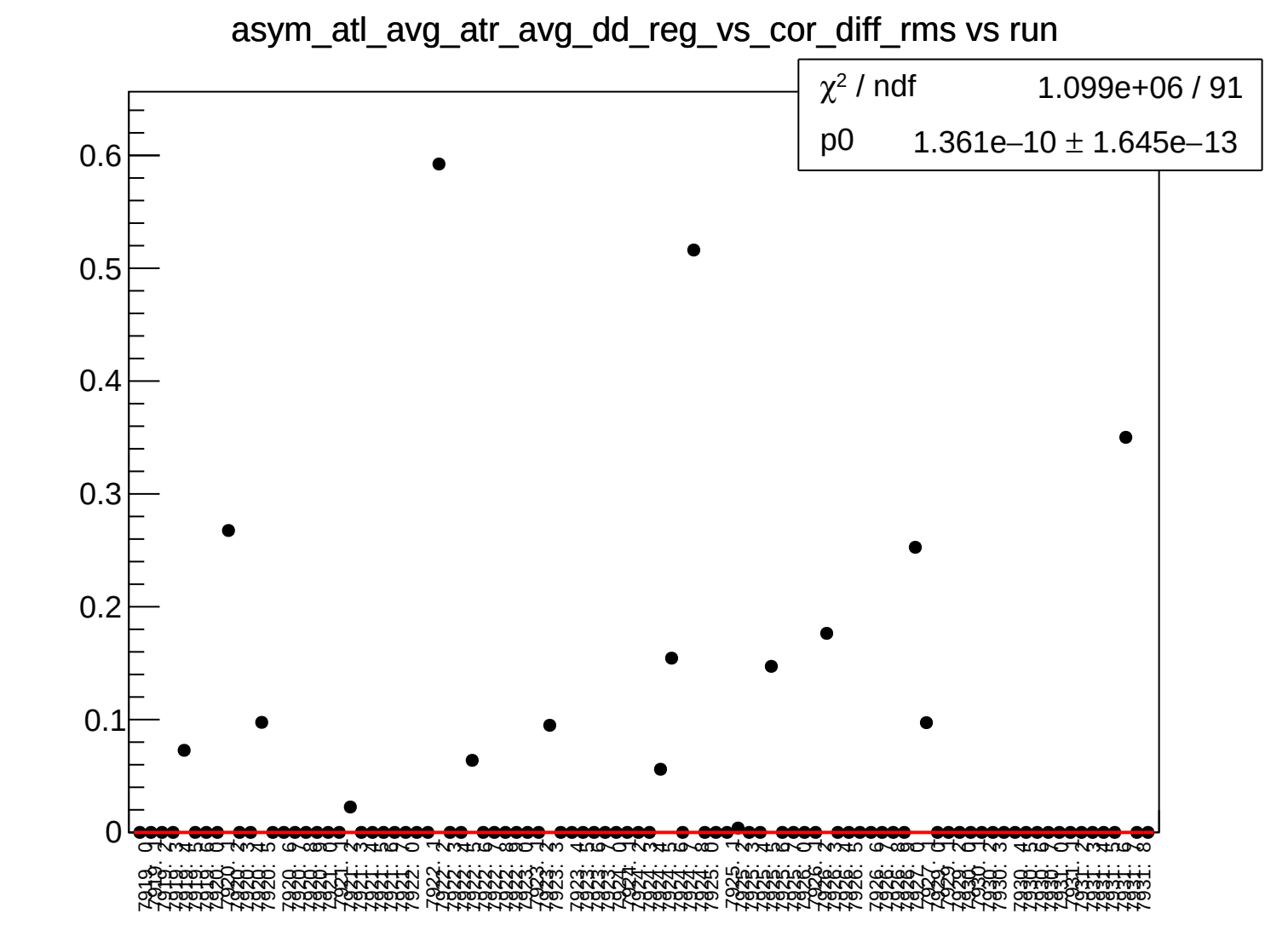

asym_atl_avg_atr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 103.3 / 91
p0 −2492 ± 1604
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 33.09
Std Dev 82.62
3
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.003896
Std Dev 1.059
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

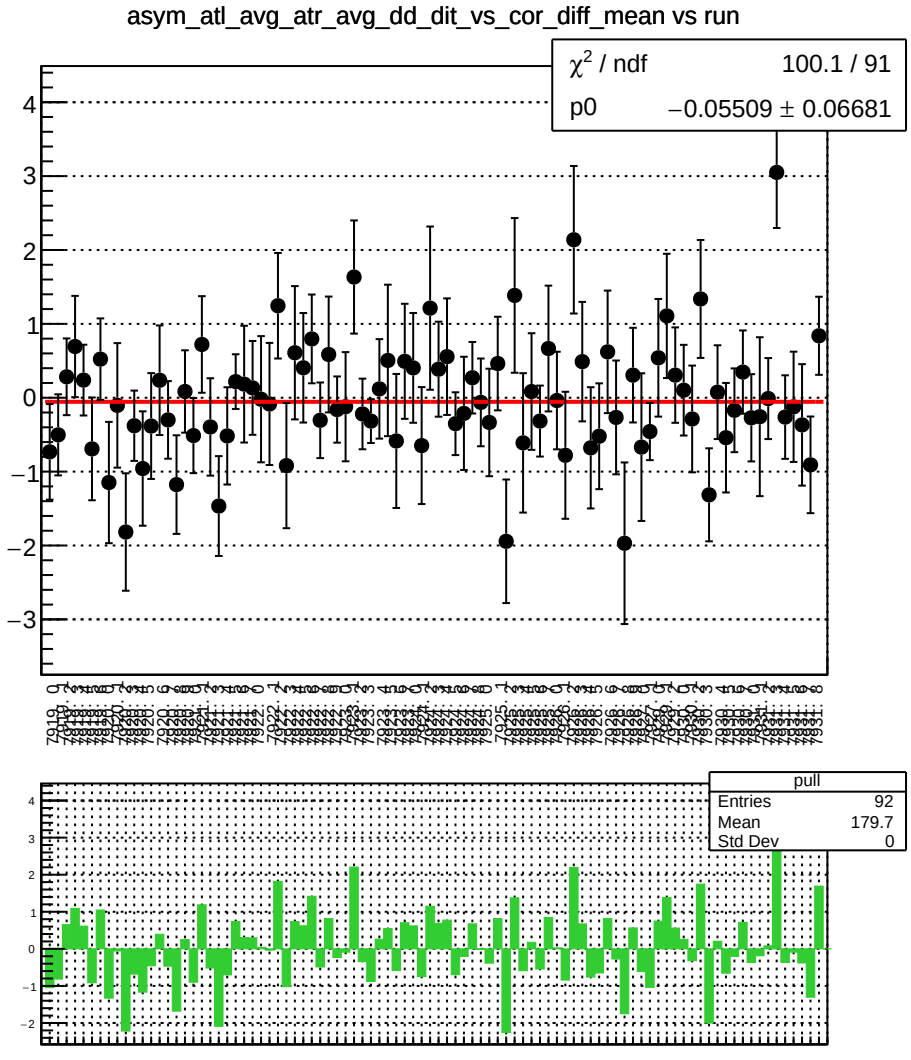

asym_atl_avg_atr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 4437 / 91
p0 1512 ± 1.134
1800
1700
1600
1500
1400
1300

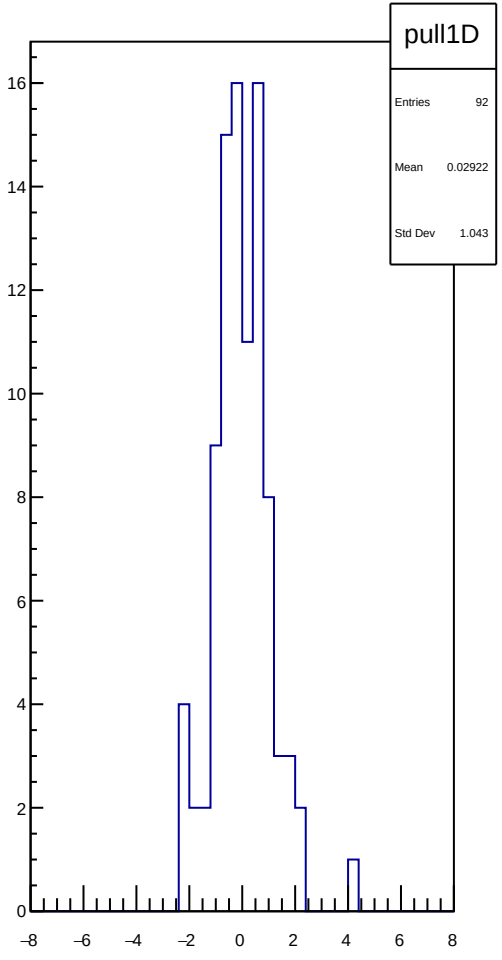

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 83.87 / 91
p0 1730 ± 2064
pull
Entries 92
Mean −627
Std Dev 0
pull1D
Entries 92
Mean 0.00384
Std Dev 0.9548

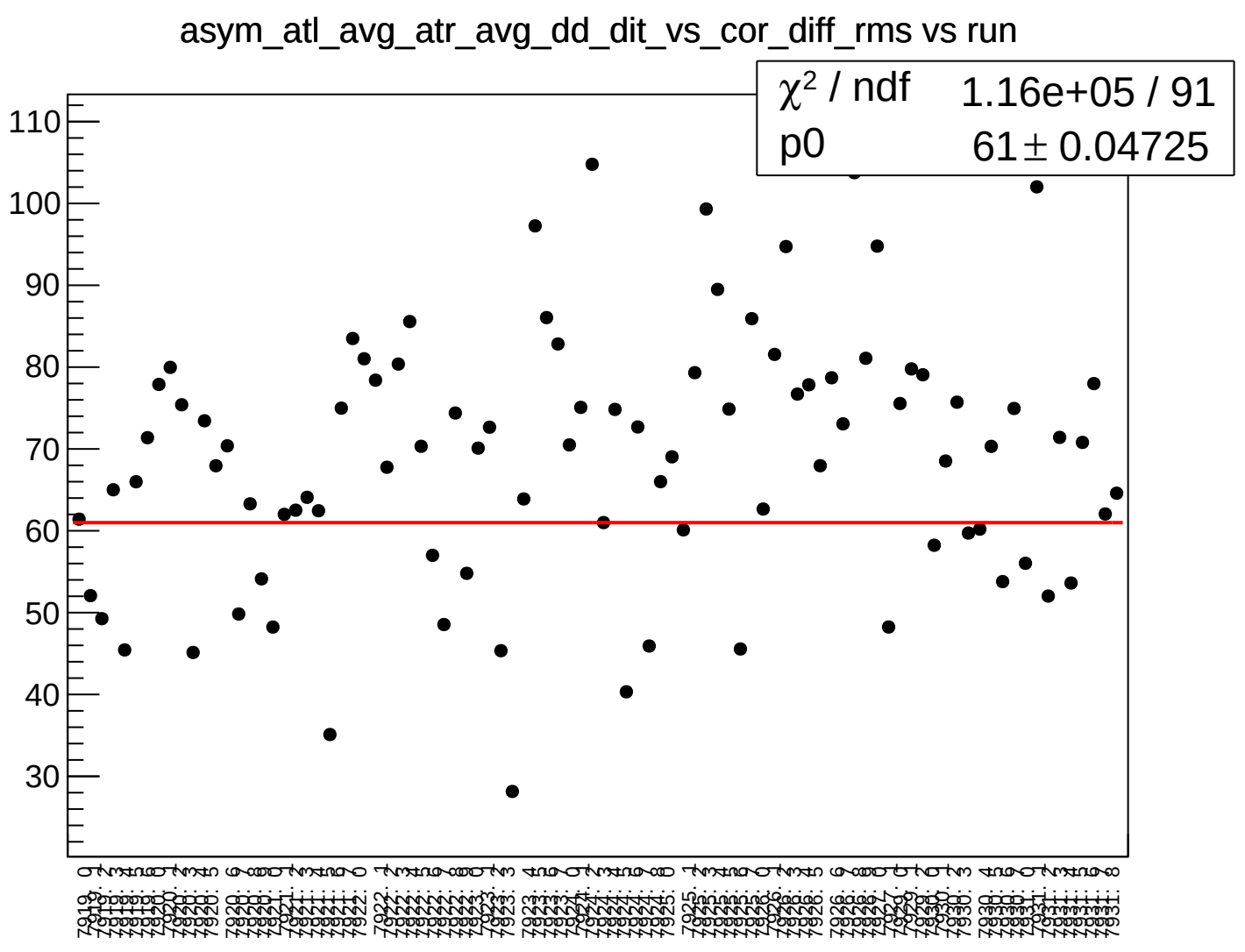

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 2198 / 91
p0 1948 ± 1.46
2200
2100
2000
1900
1800

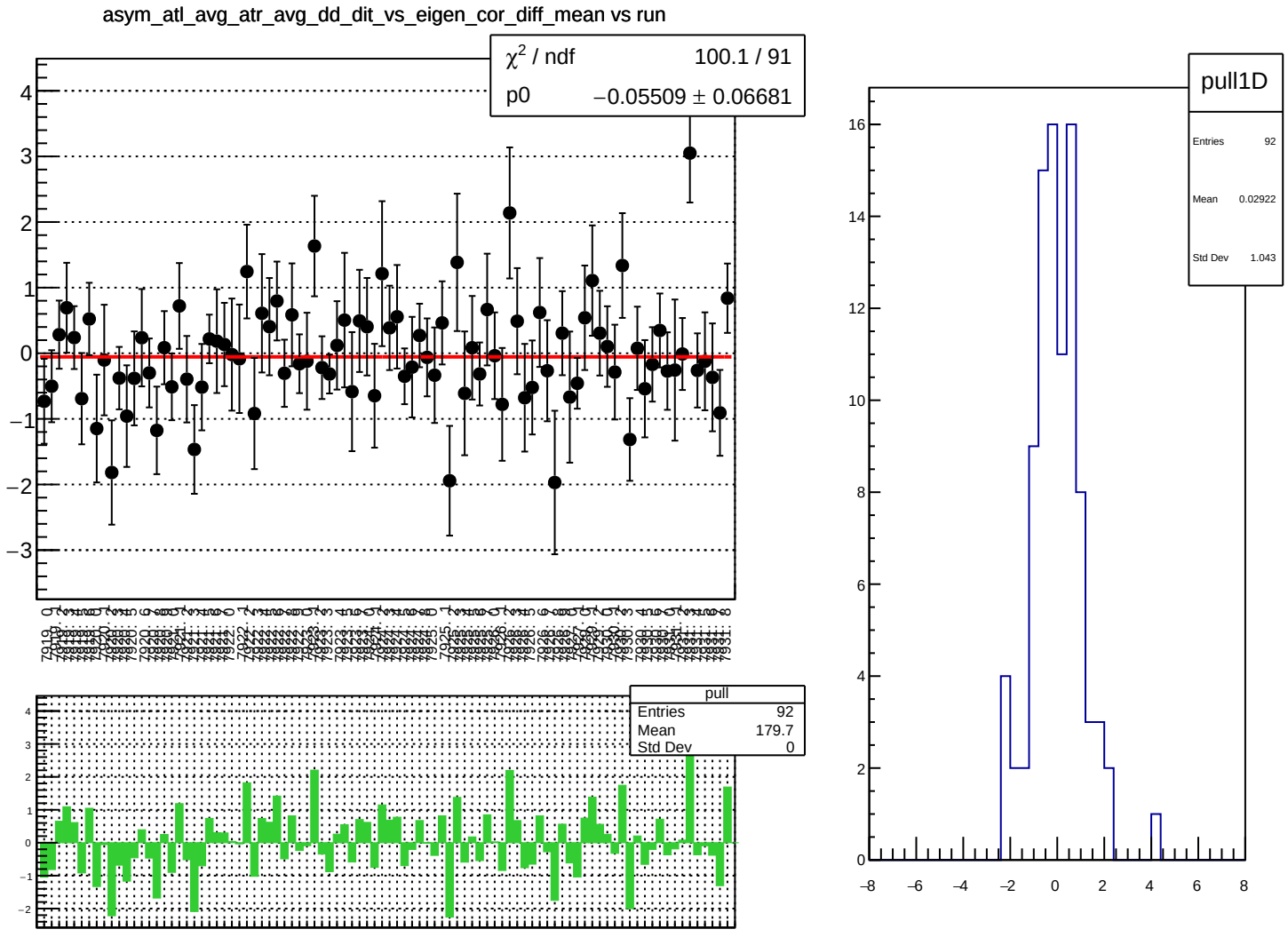

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 84.67 / 91
p0 1.679e−13 ± 2.327e−13
0.01
0.005
0
−0.005
−0.01
pull
Entries 92
Mean 106.6
Std Dev 0
pull1D
Entries 92
Mean 0.06556
Std Dev 0.9571

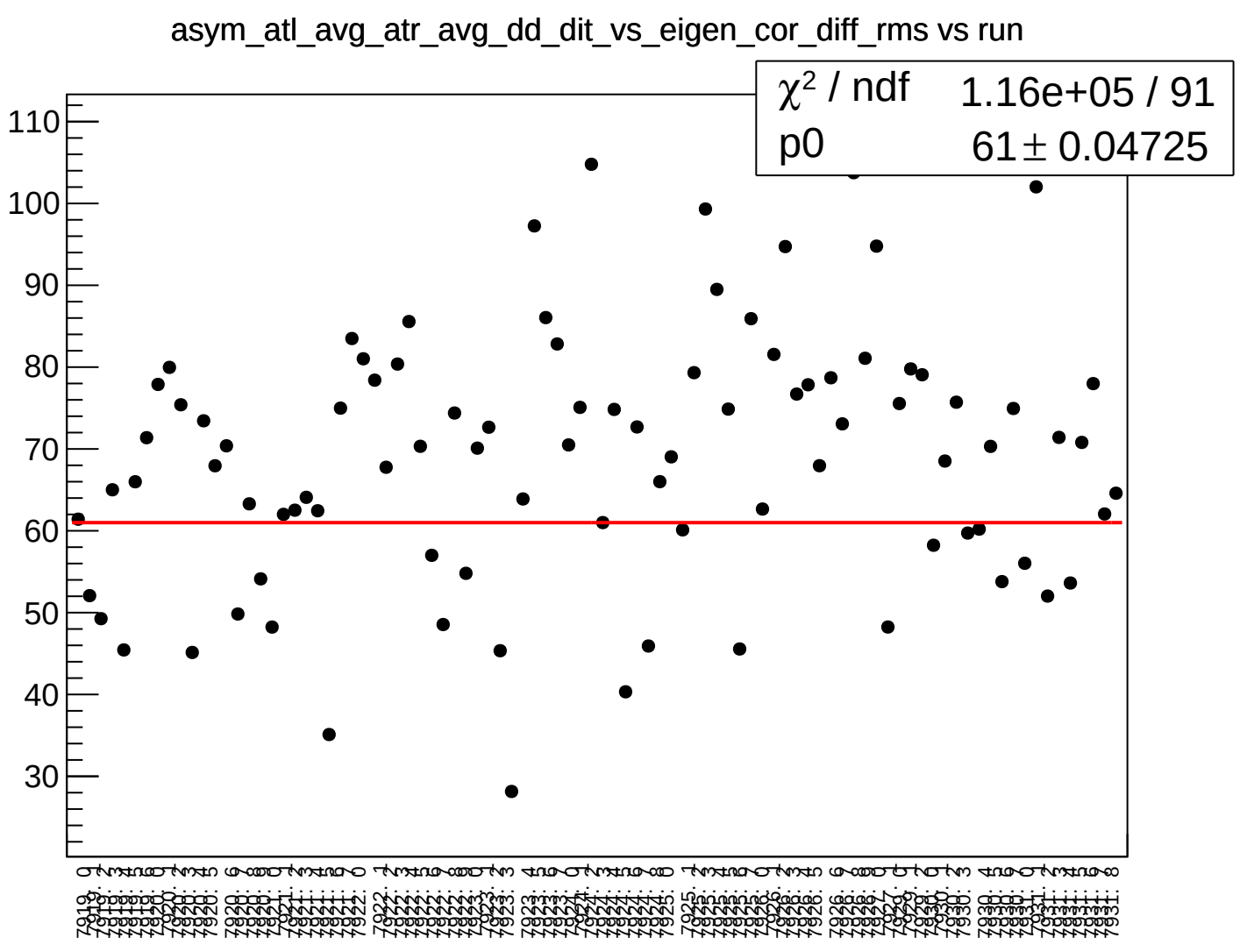

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.099e+06 / 91
p0 1.361e−10 ± 1.645e−13
0.6
0.5
0.4
0.3
0.2
0.1
0

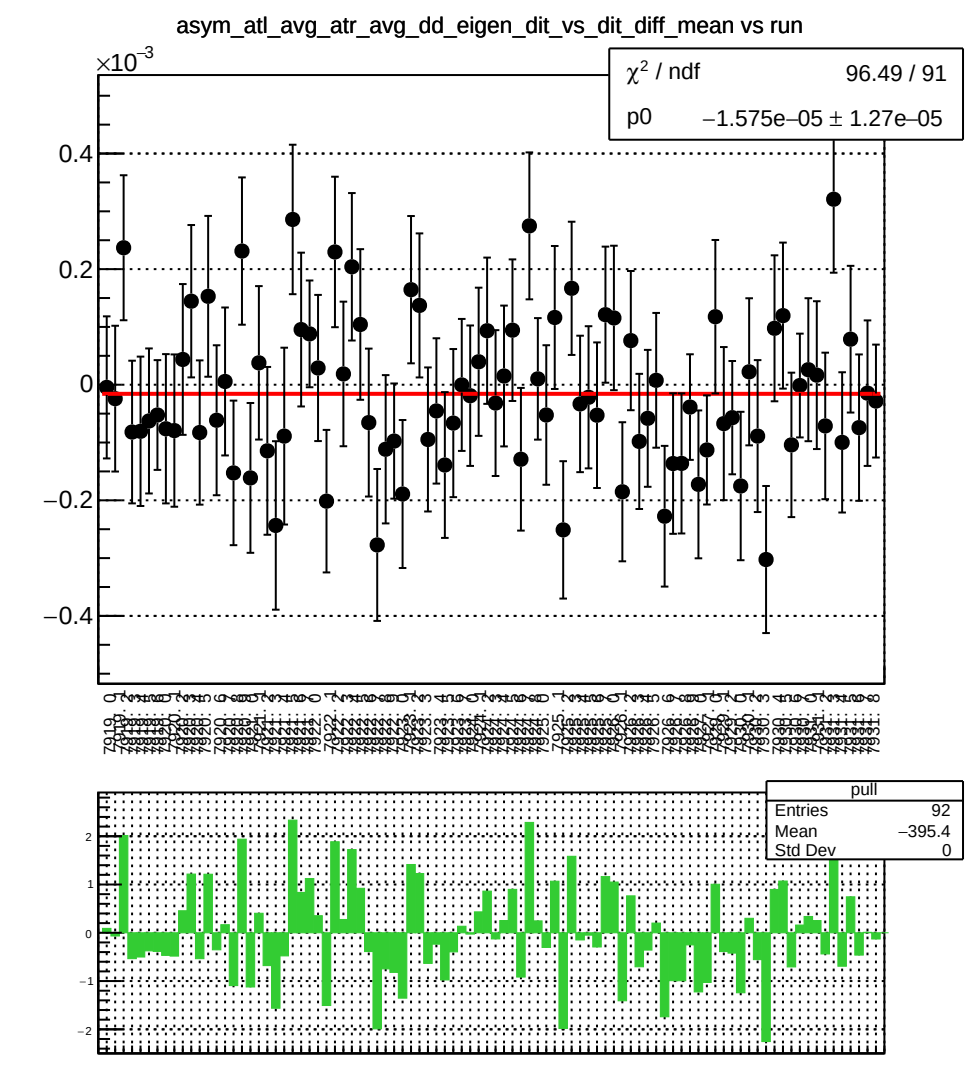

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 100.1 / 91
p0 −0.05509 ± 0.06681
pull
Entries 92
Mean 179.7
Std Dev 0

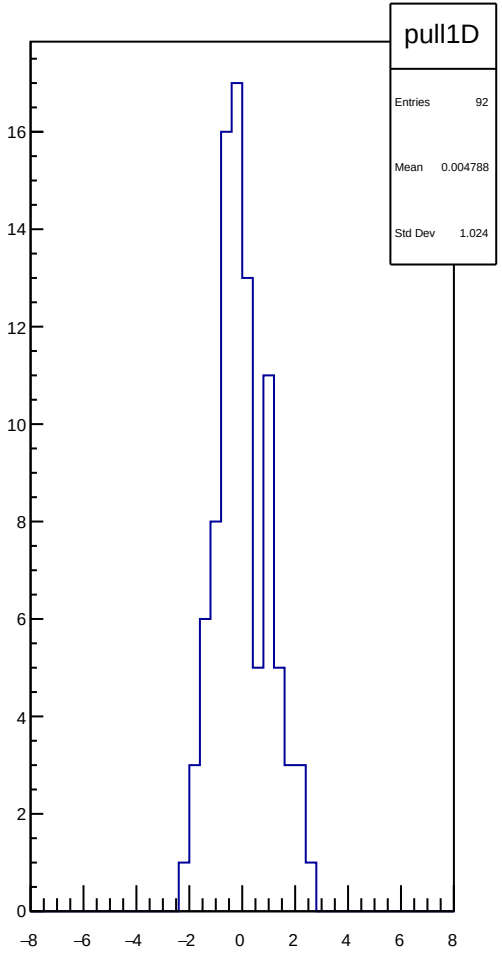

pull1D
Entries 92
Mean 0.02922
Std Dev 1.043

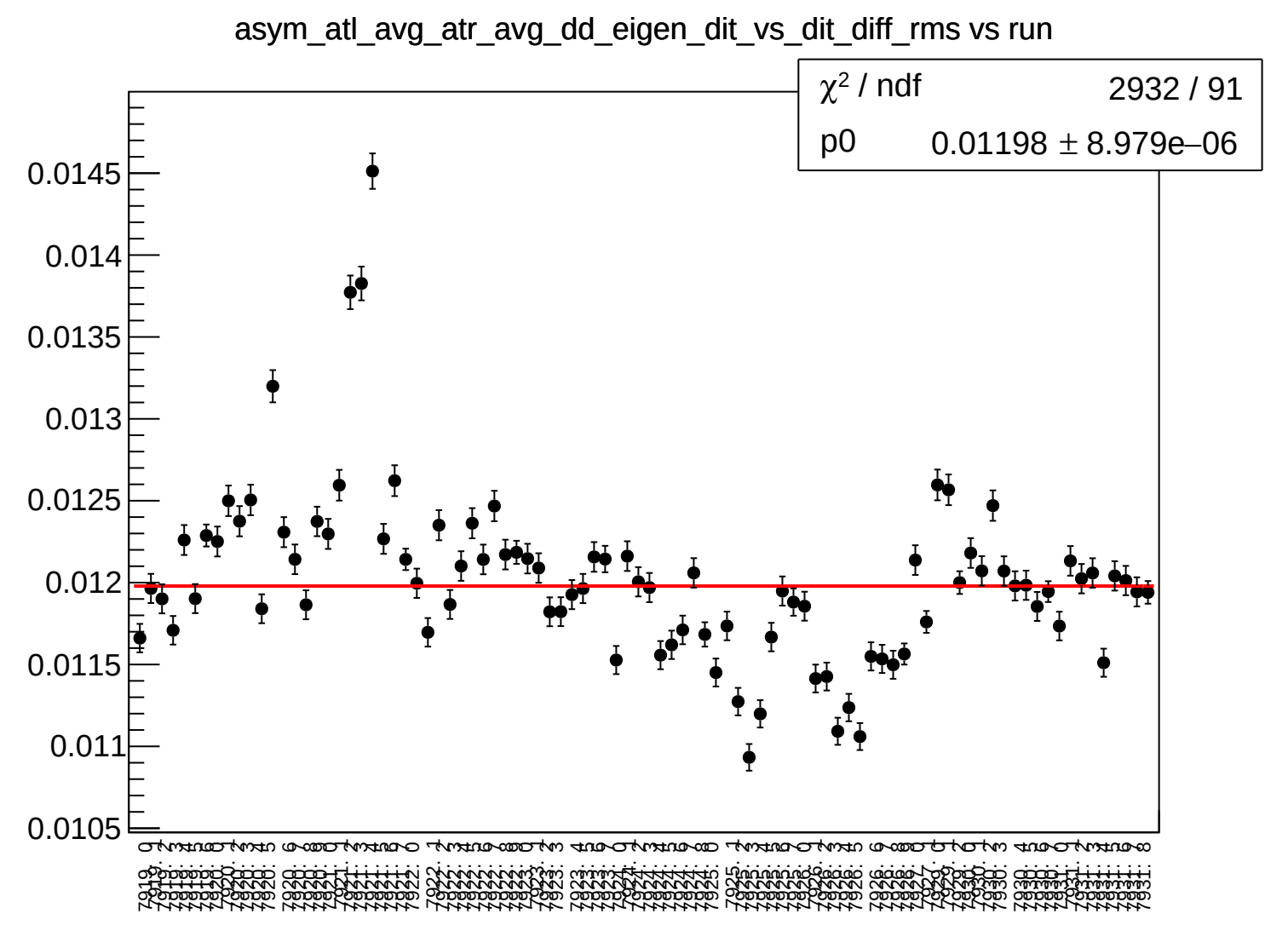

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.16e+05 / 91
p0 61 ± 0.04725
110
100
90
80
70
60
50
40
30

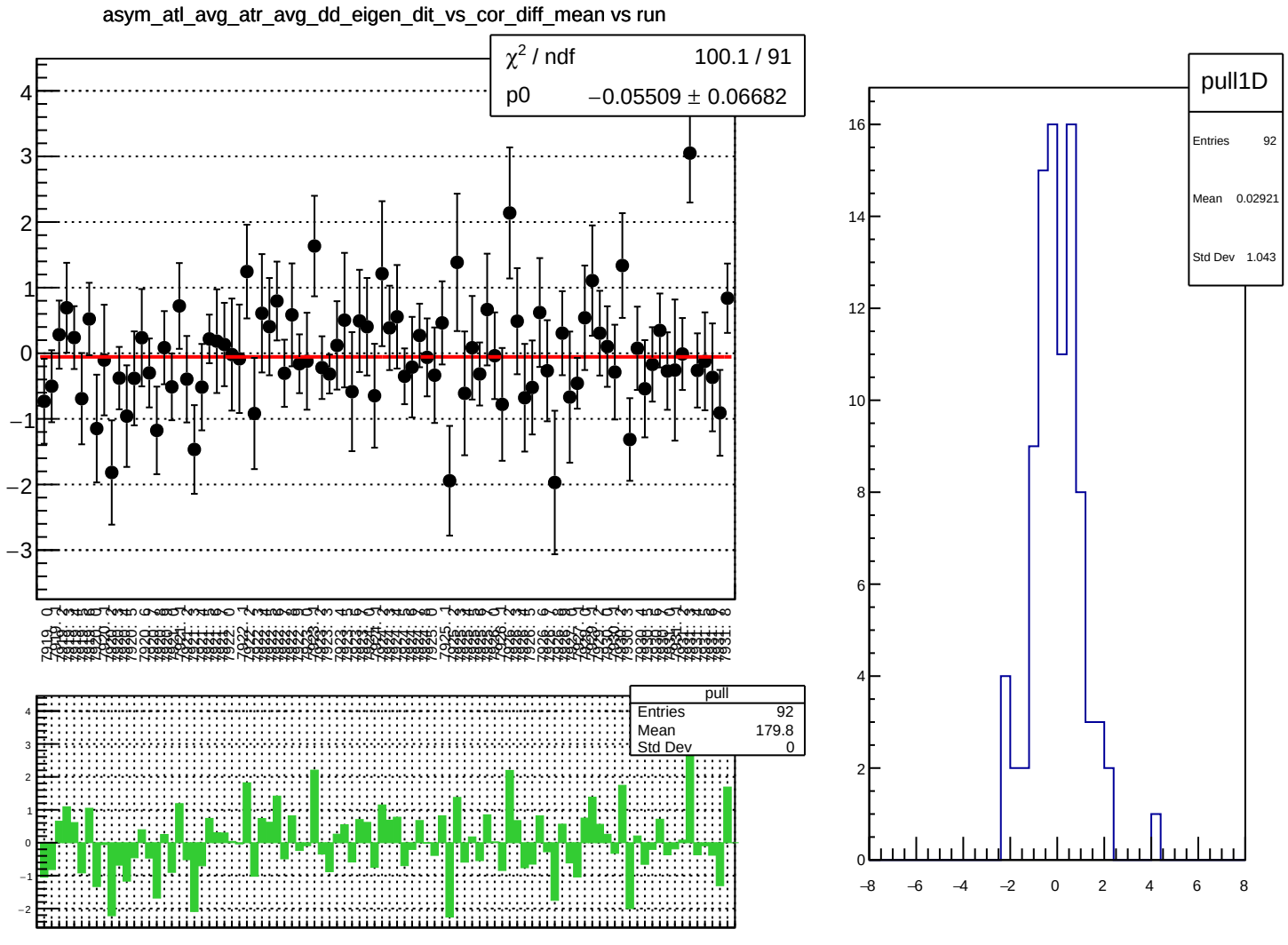

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.1 / 91
p0 −0.05509 ± 0.06681
pull
Entries 92
Mean 179.7
Std Dev 0
pull1D
Entries 92
Mean 0.02922
Std Dev 1.043

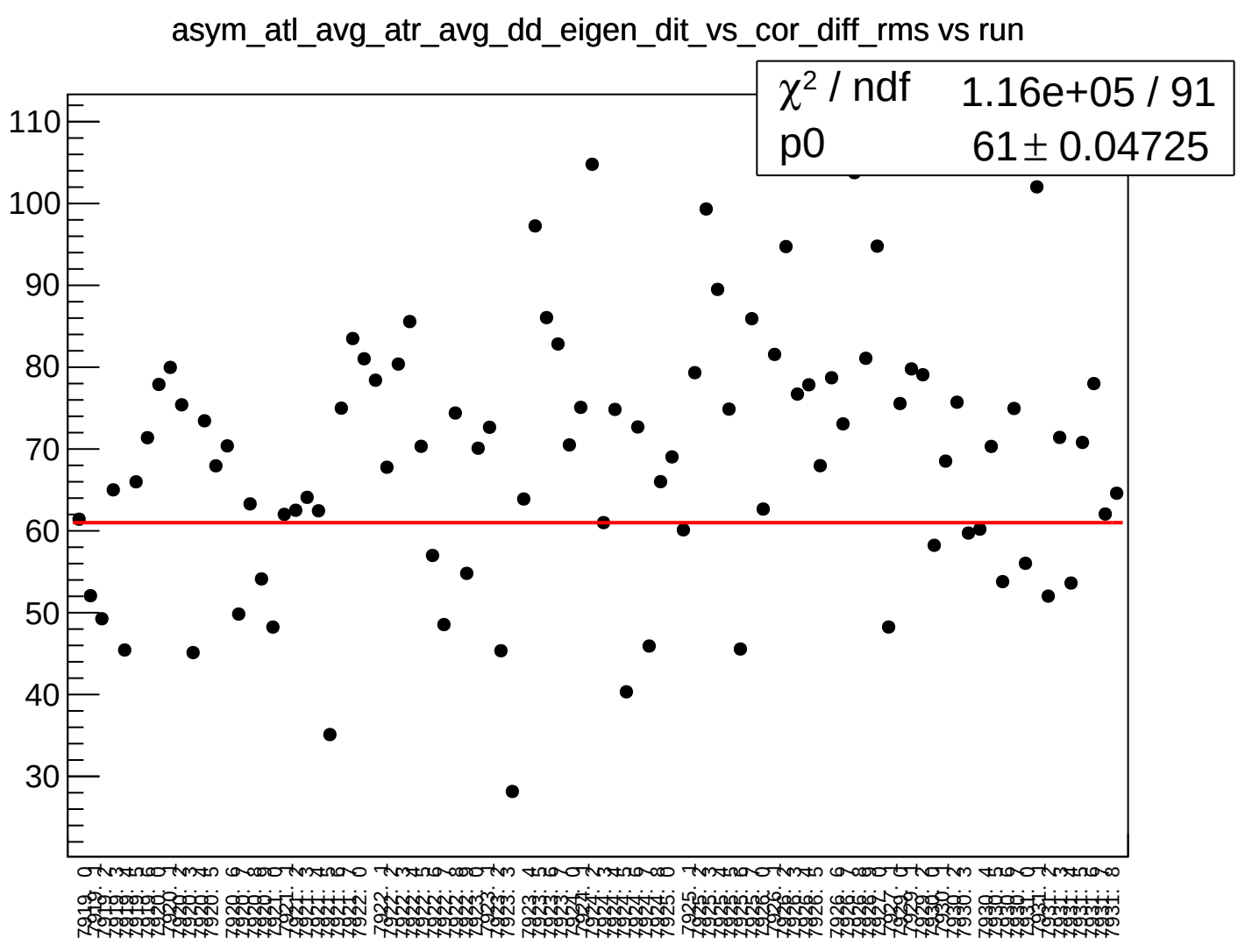

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.16e+05 / 91
p0 61 ± 0.04725
110
100
90
80
70
60
50
40
30

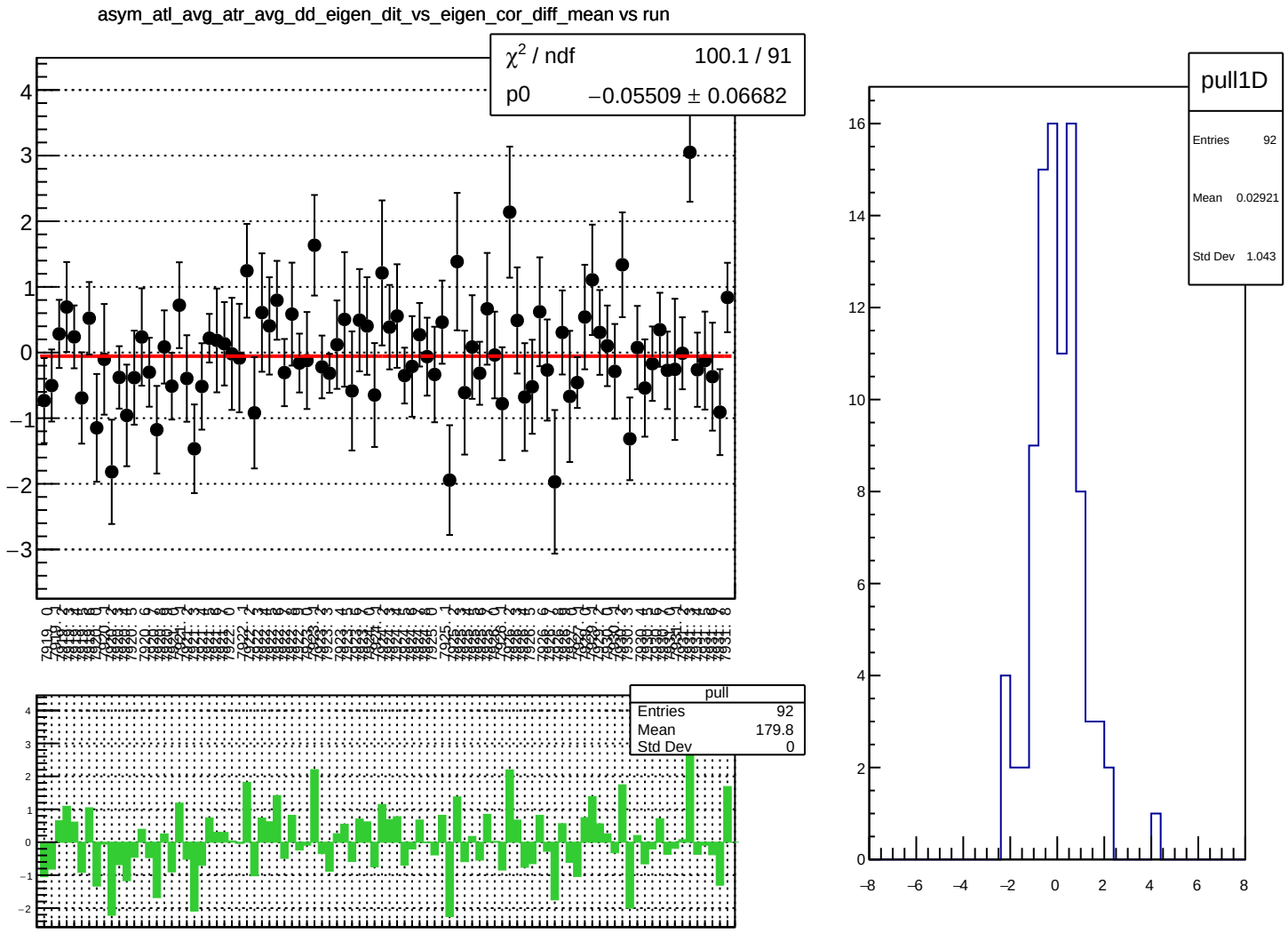

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.49 / 91
p0 −1.575e−05 ± 1.27e−05
0.4
0.2
0
−0.2
−0.4
pull
Entries 92
Mean −395.4
Std Dev 0
2
1
0
−1
−2

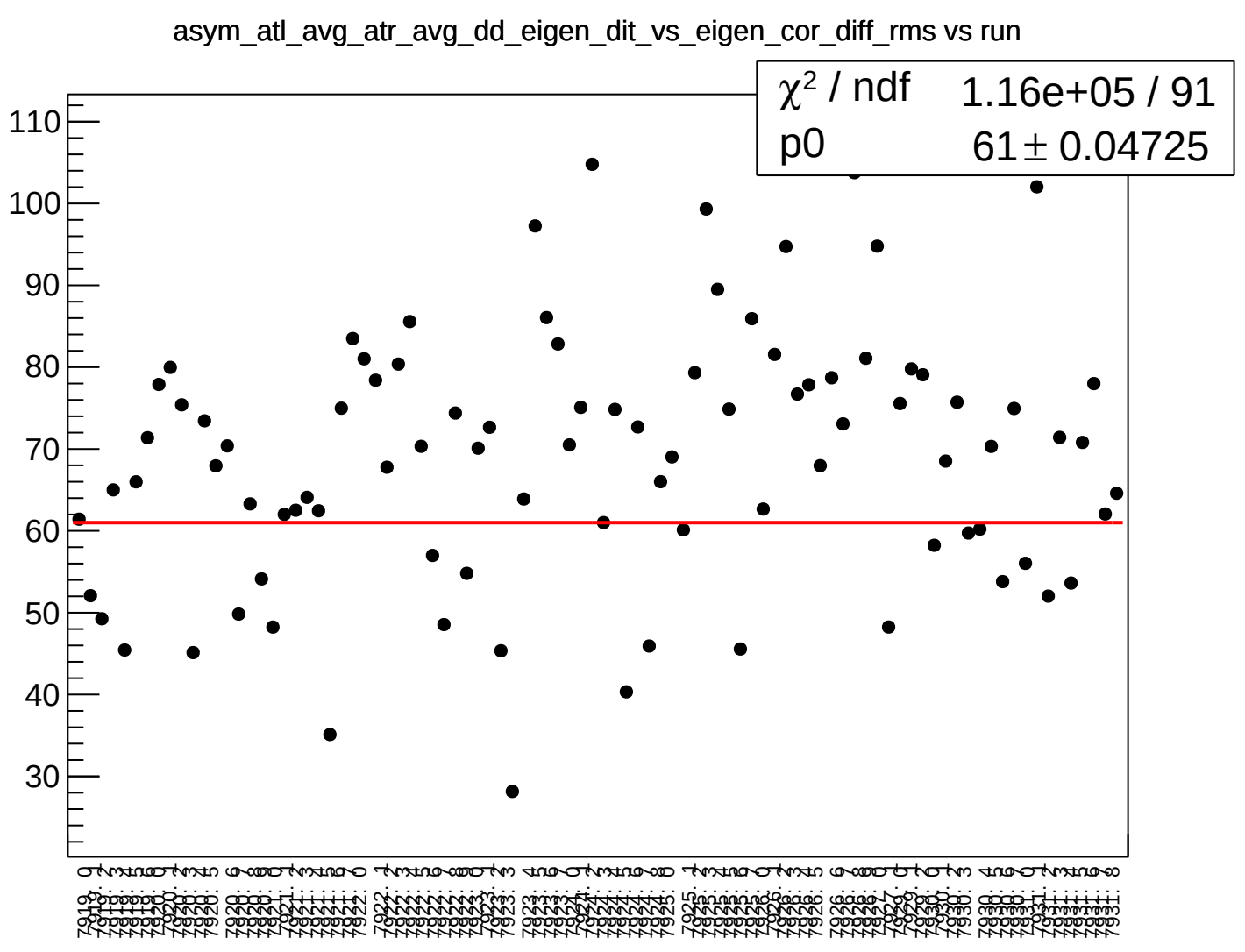

pull1D
Entries 92
Mean 0.004788
Std Dev 1.024
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

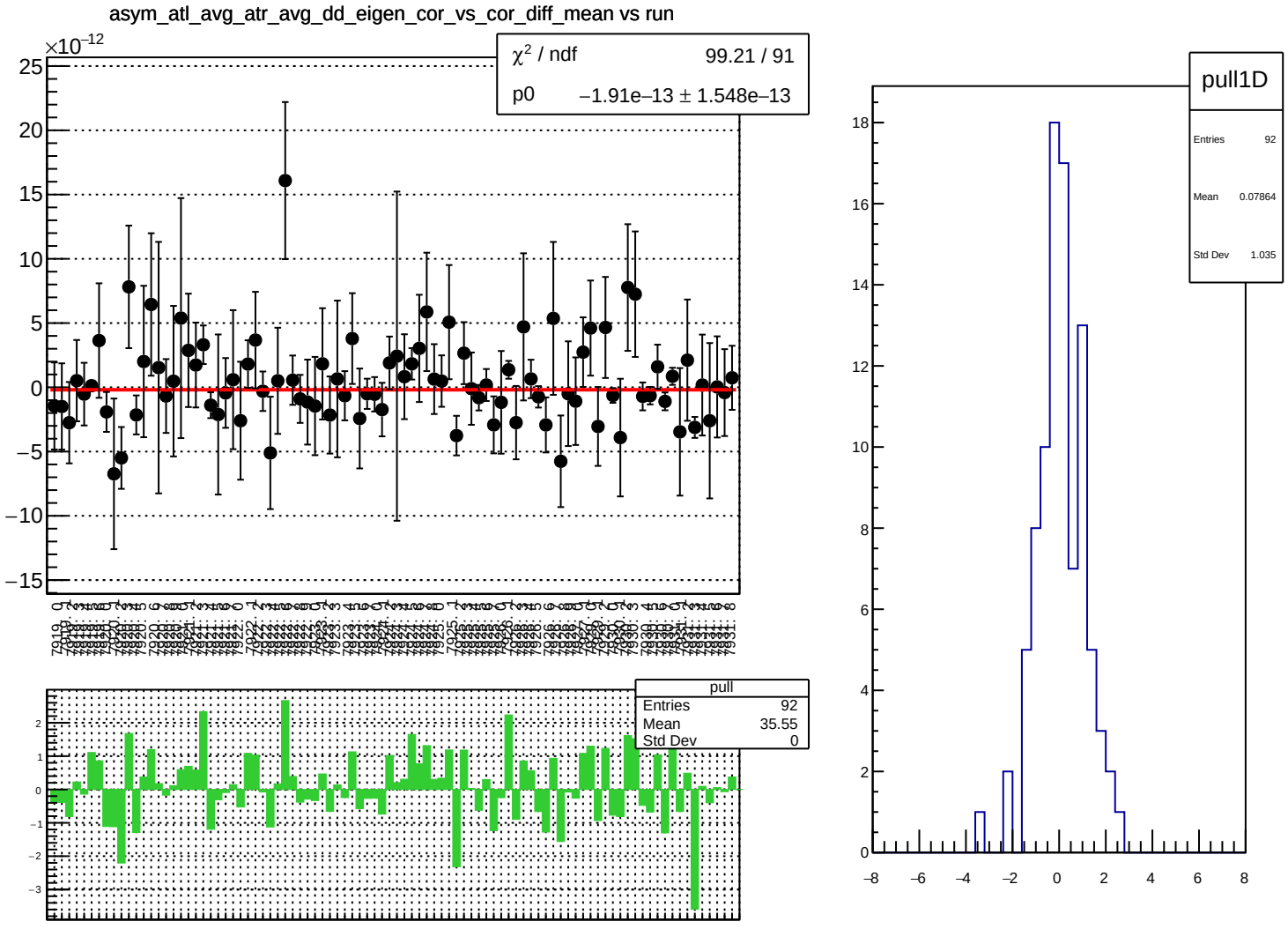

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2932 / 91
p0 0.01198 ± 8.979e−06
0.0145
0.014
0.0135
0.013
0.0125
0.012
0.0115
0.011
0.0105

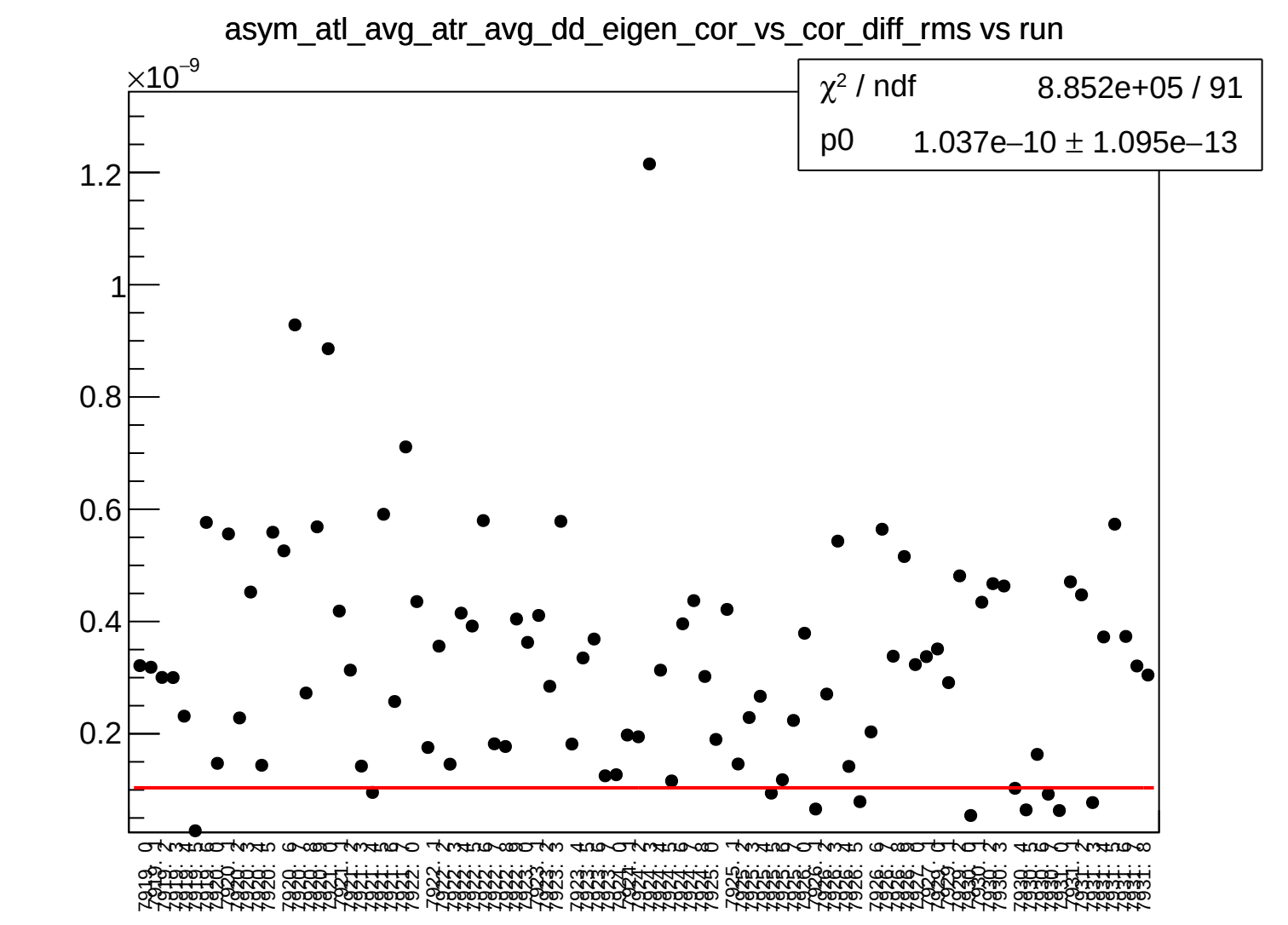

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 100.1 / 91
p0 −0.05509 ± 0.06682
pull
Entries 92
Mean 179.8
Std Dev 0
pull1D
Entries 92
Mean 0.02921
Std Dev 1.043

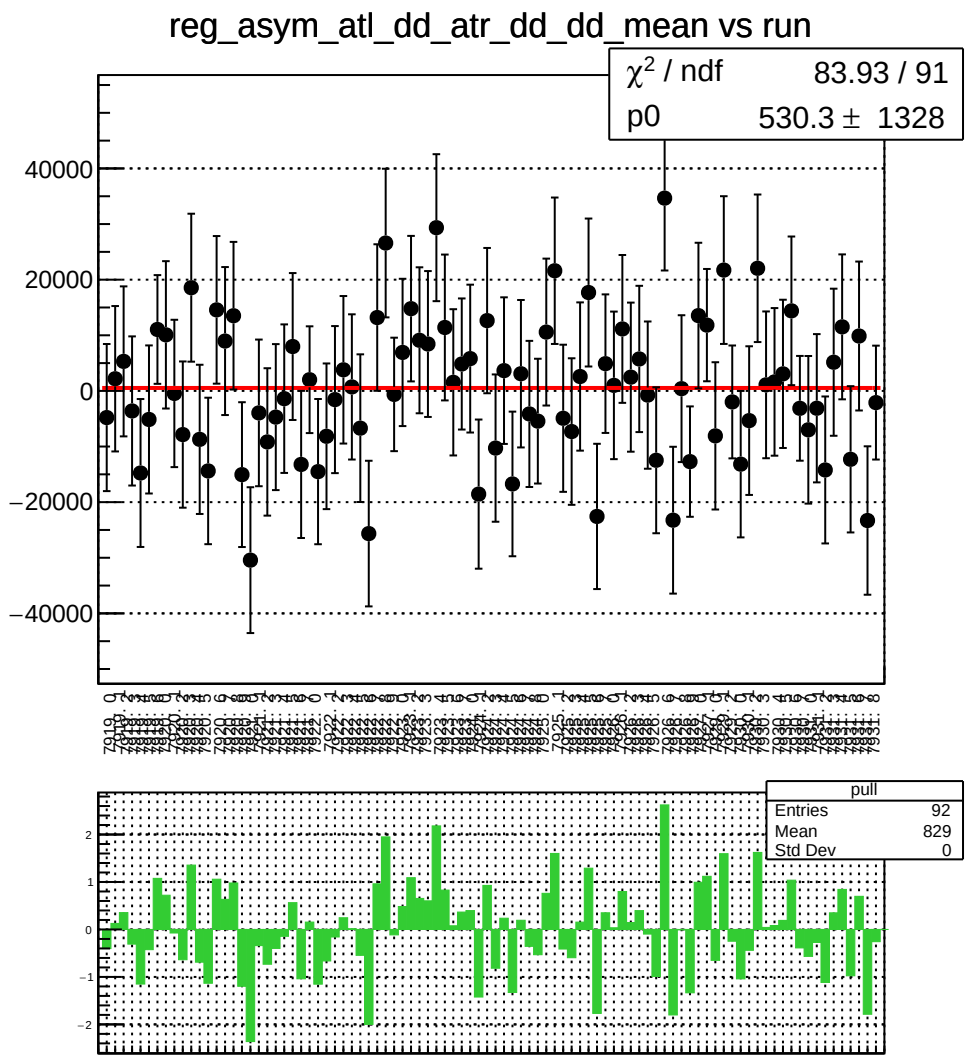

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.16e+05 / 91
p0 61 ± 0.04725
110
100
90
80
70
60
50
40
30

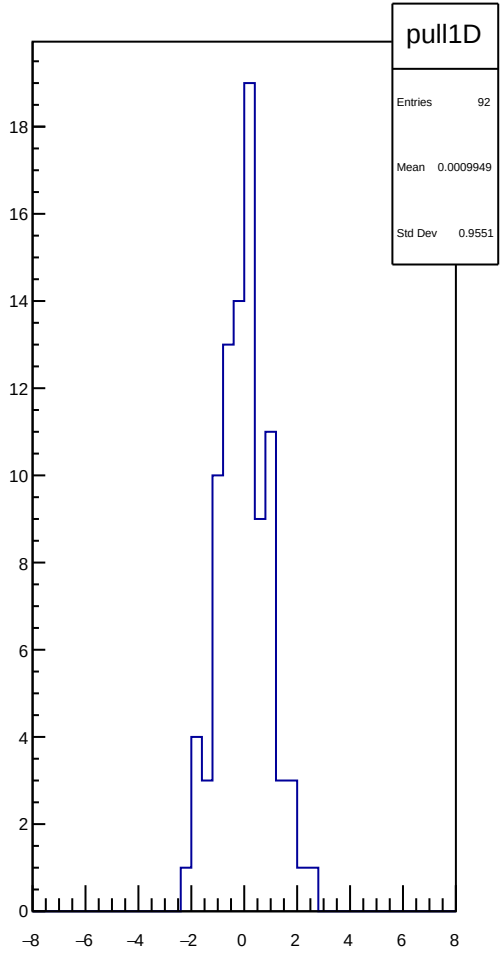

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.1 / 91
p0 −0.05509 ± 0.06682
pull
Entries 92
Mean 179.8
Std Dev 0
pull1D
Entries 92
Mean 0.02921
Std Dev 1.043

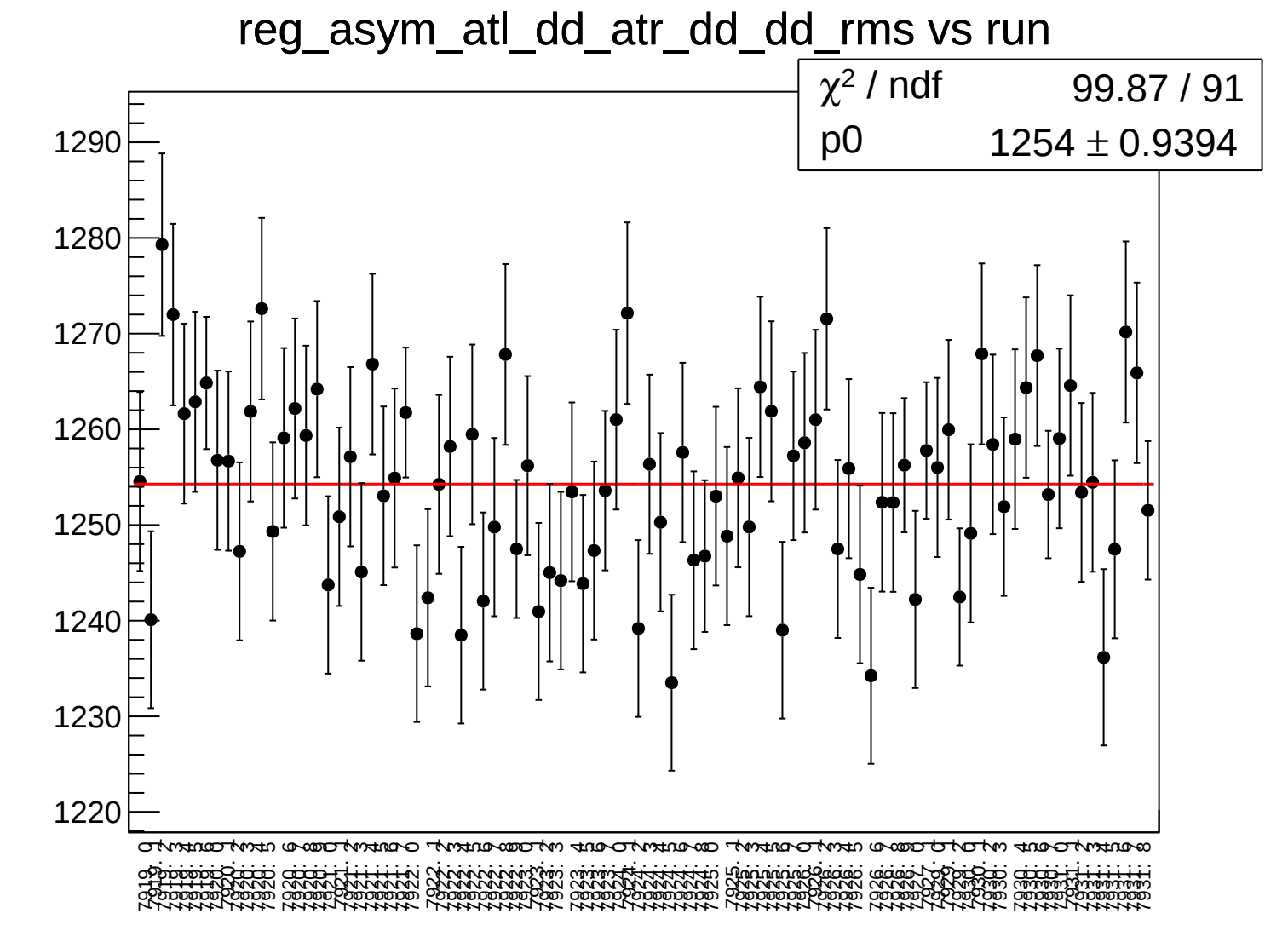

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.16e+05 / 91
p0 61 ± 0.04725
110
100
90
80
70
60
50
40
30

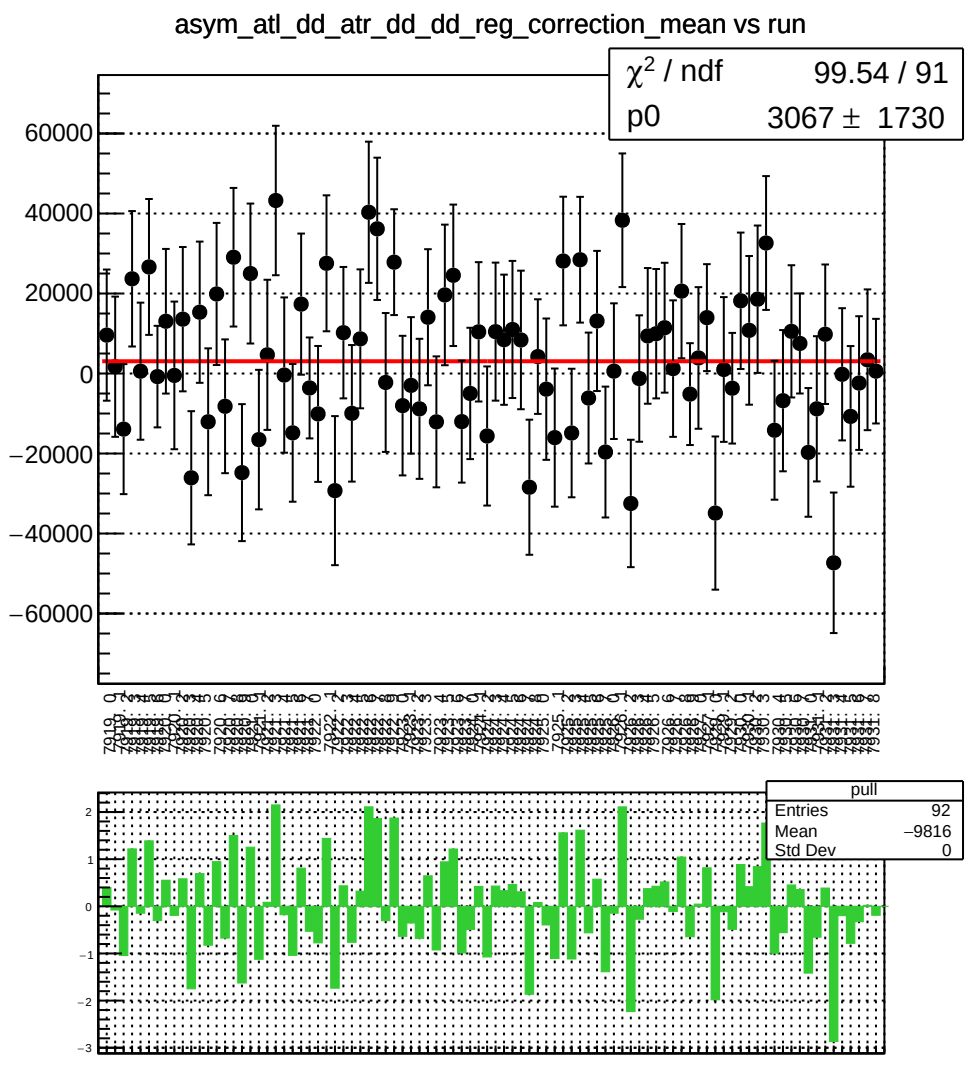

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.21 / 91
p0 −1.91e−13 ± 1.548e−13
pull
Entries 92
Mean 35.55
Std Dev 0
pull1D
Entries 92
Mean 0.07864
Std Dev 1.035

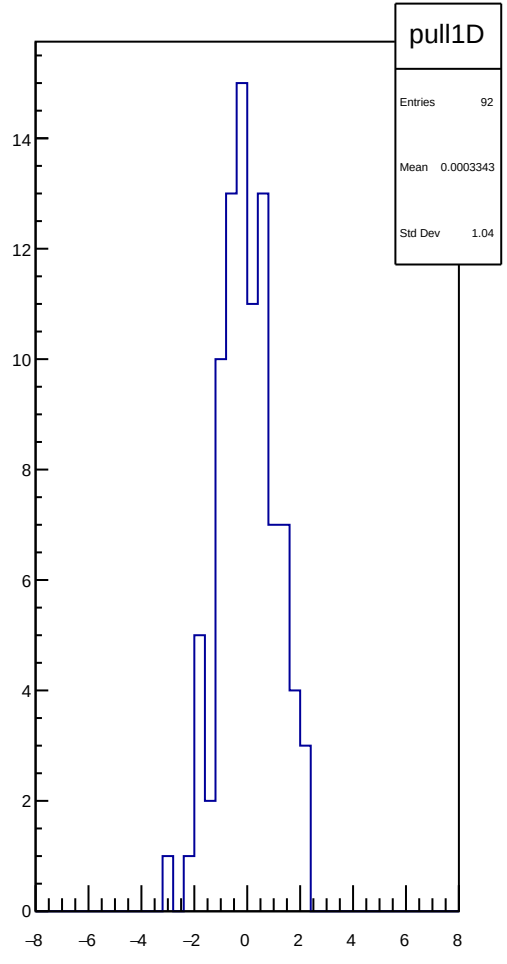

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.852e+05 / 91
p0 1.037e−10 ± 1.095e−13
1.2
1
0.8
0.6
0.4
0.2

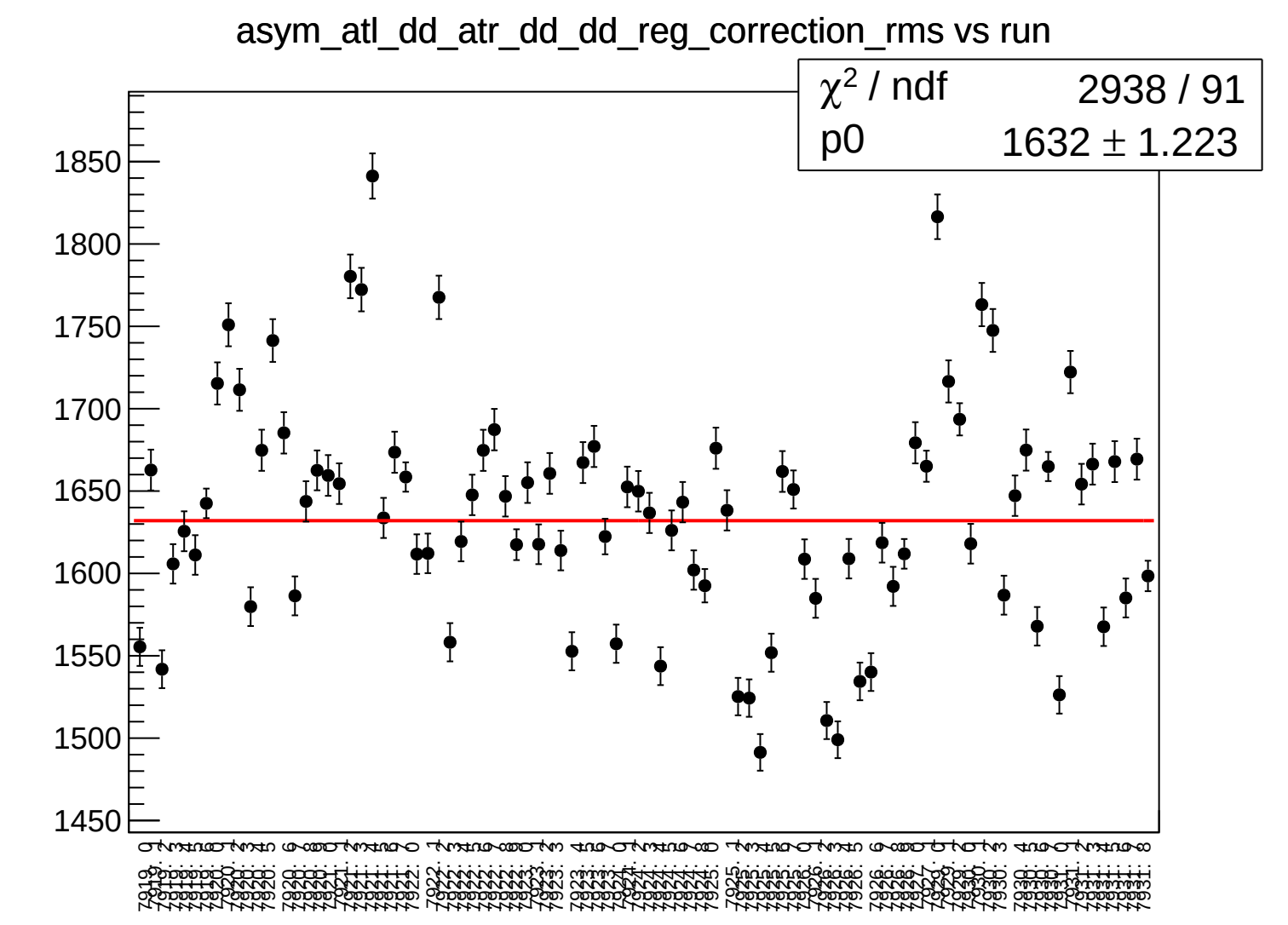

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 83.93 / 91
p0 530.3 ± 1328
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 829
Std Dev 0
2
1
0
−1
−2

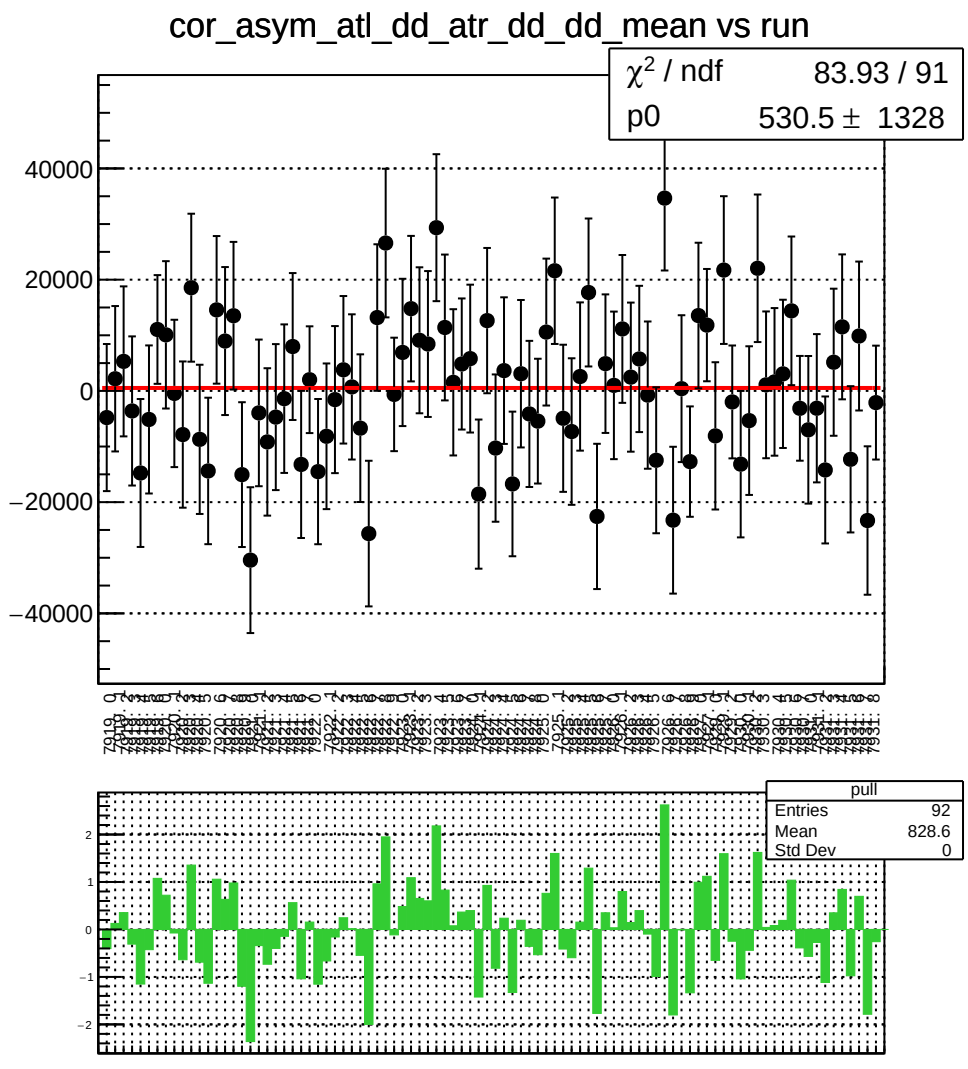

pull1D
Entries 92
Mean 0.0009949
Std Dev 0.9551
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

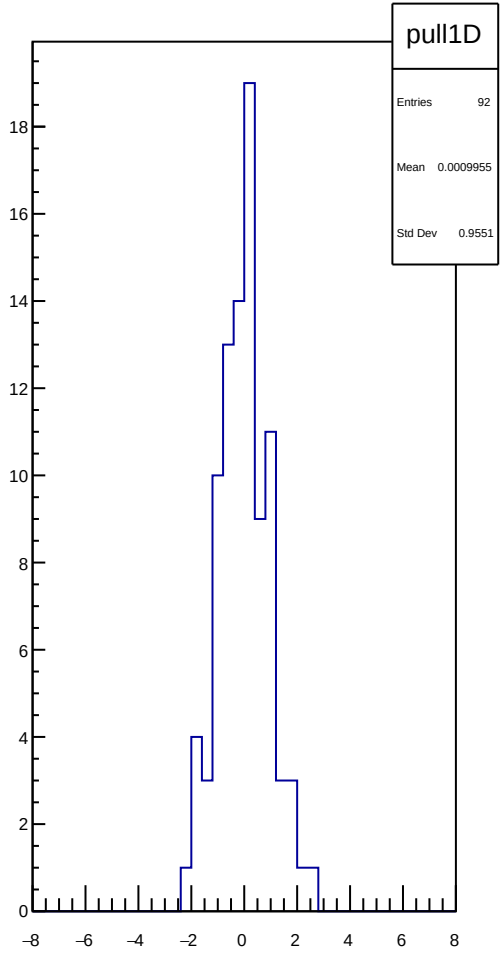

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 99.87 / 91
p0 1254 ± 0.9394
1290
1280
1270
1260
1250
1240
1230
1220

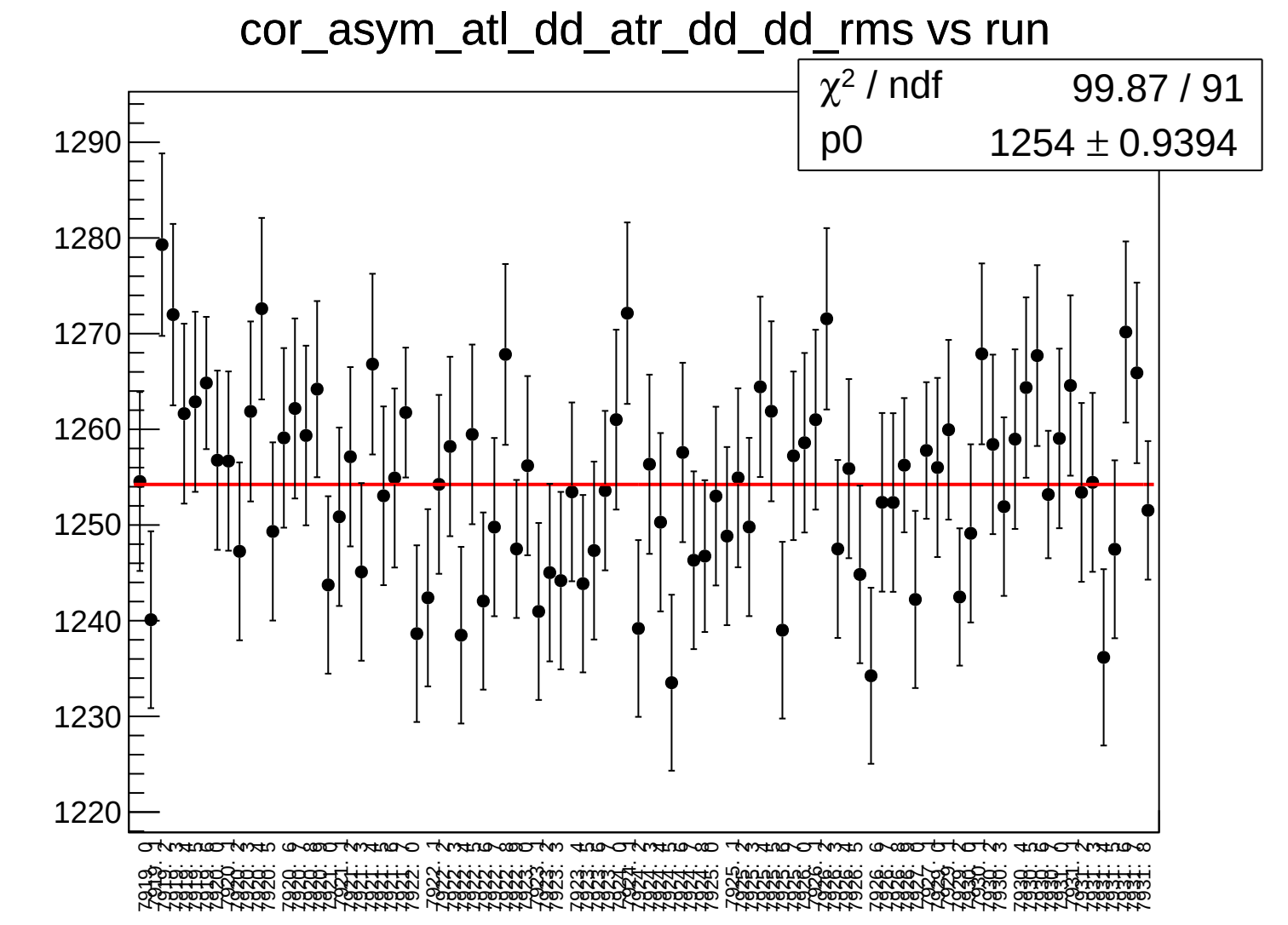

asym_atl_dd_atr_dd_dd_reg_correction_mean vs run
χ² / ndf 99.54 / 91
p0 3067 ± 1730
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −9816
Std Dev 0
2
1
0
−1
−2
−3

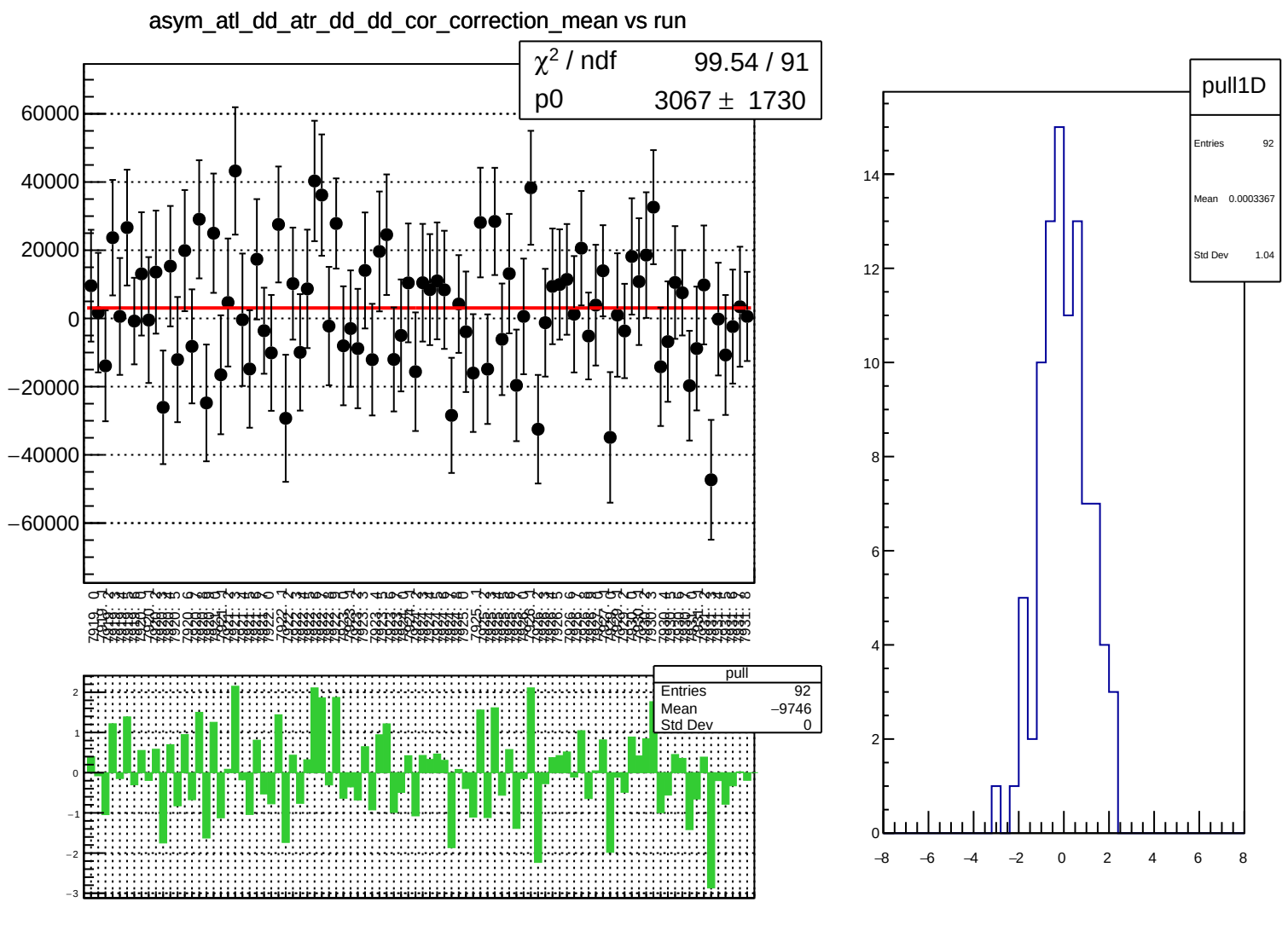

pull1D
Entries 92
Mean 0.0003343
Std Dev 1.04
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

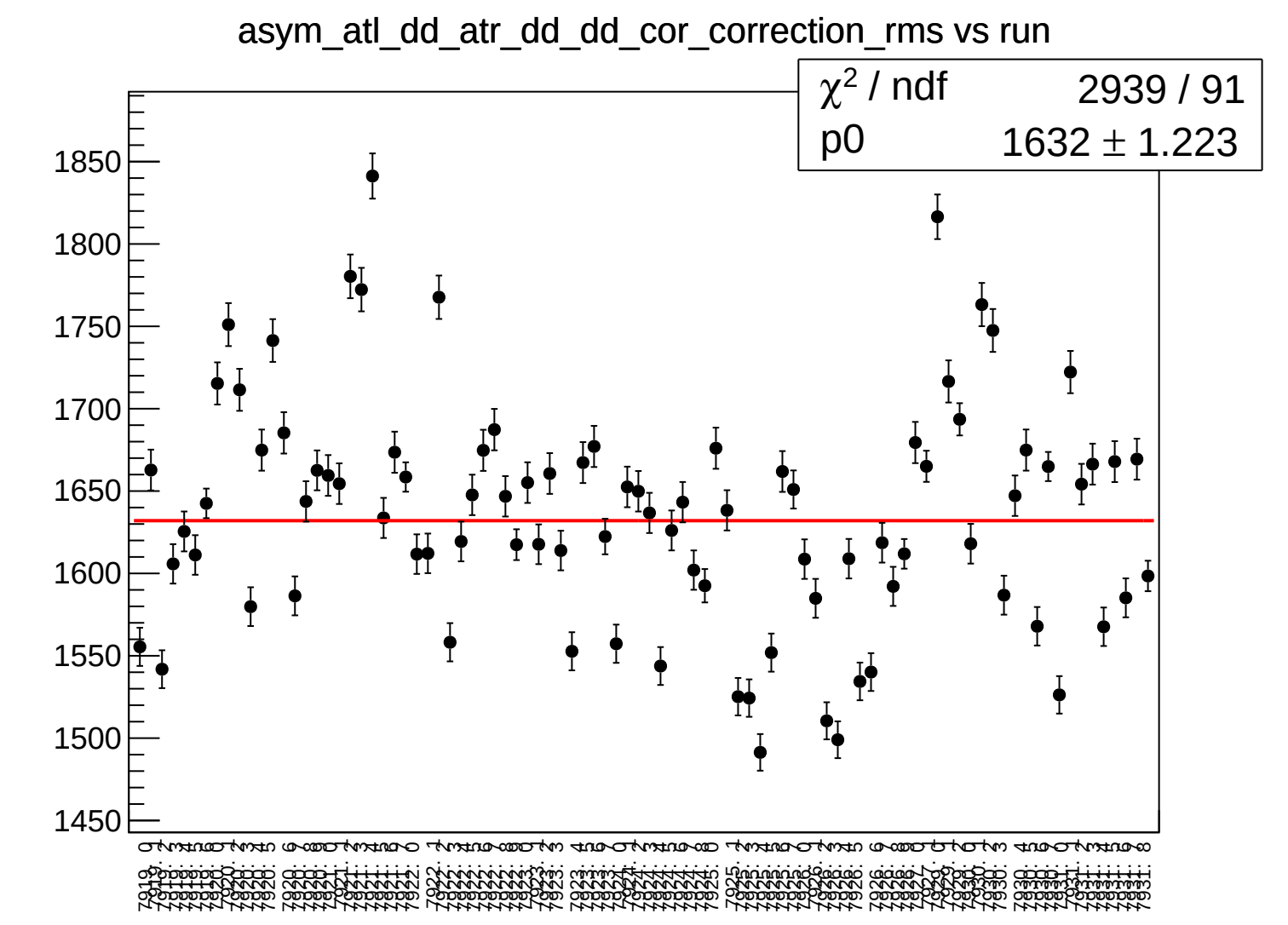

asym_atl_dd_atr_dd_dd_reg_correction_rms vs run
χ² / ndf 2938 / 91
p0 1632 ± 1.223
1850
1800
1750
1700
1650
1600
1550
1500
1450

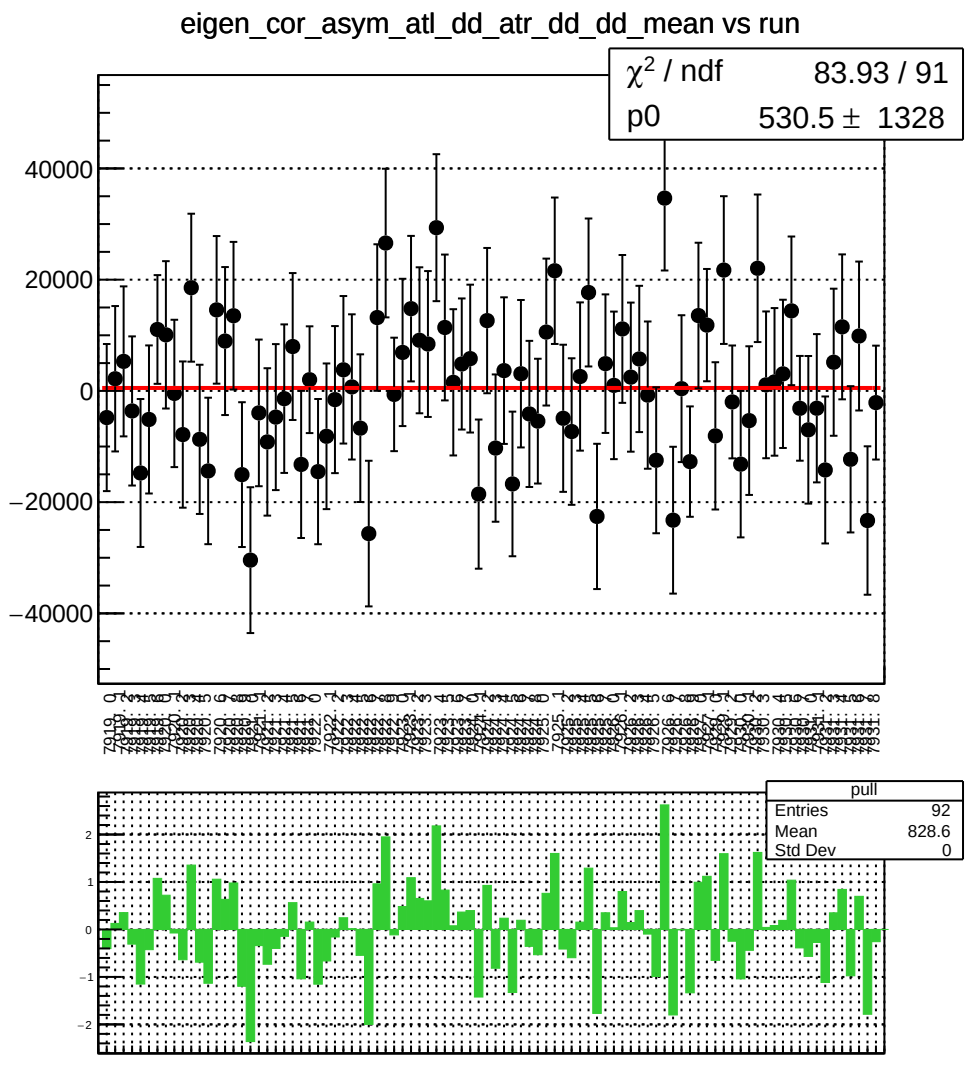

cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 83.93 / 91
p0 530.5 ± 1328
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 828.6
Std Dev 0
2
1
0
−1
−2

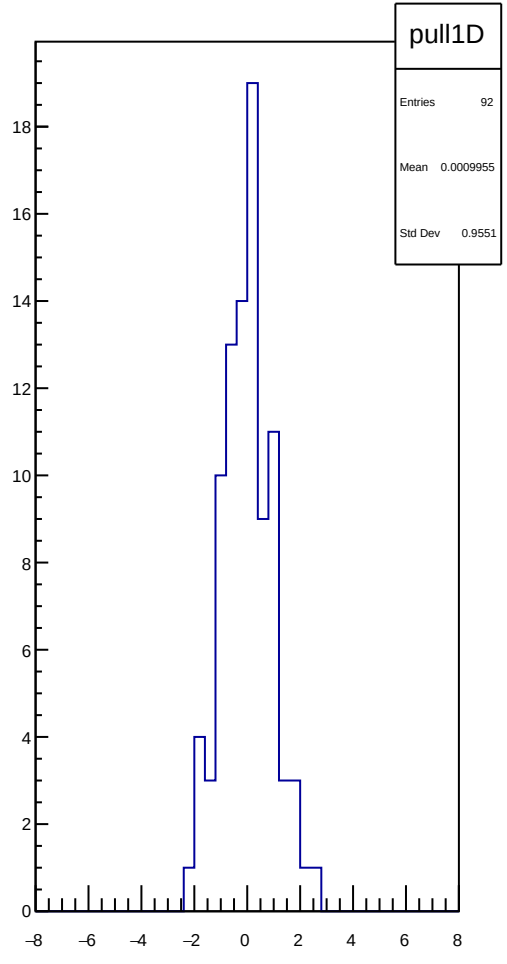

pull1D
Entries 92
Mean 0.0009955
Std Dev 0.9551
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

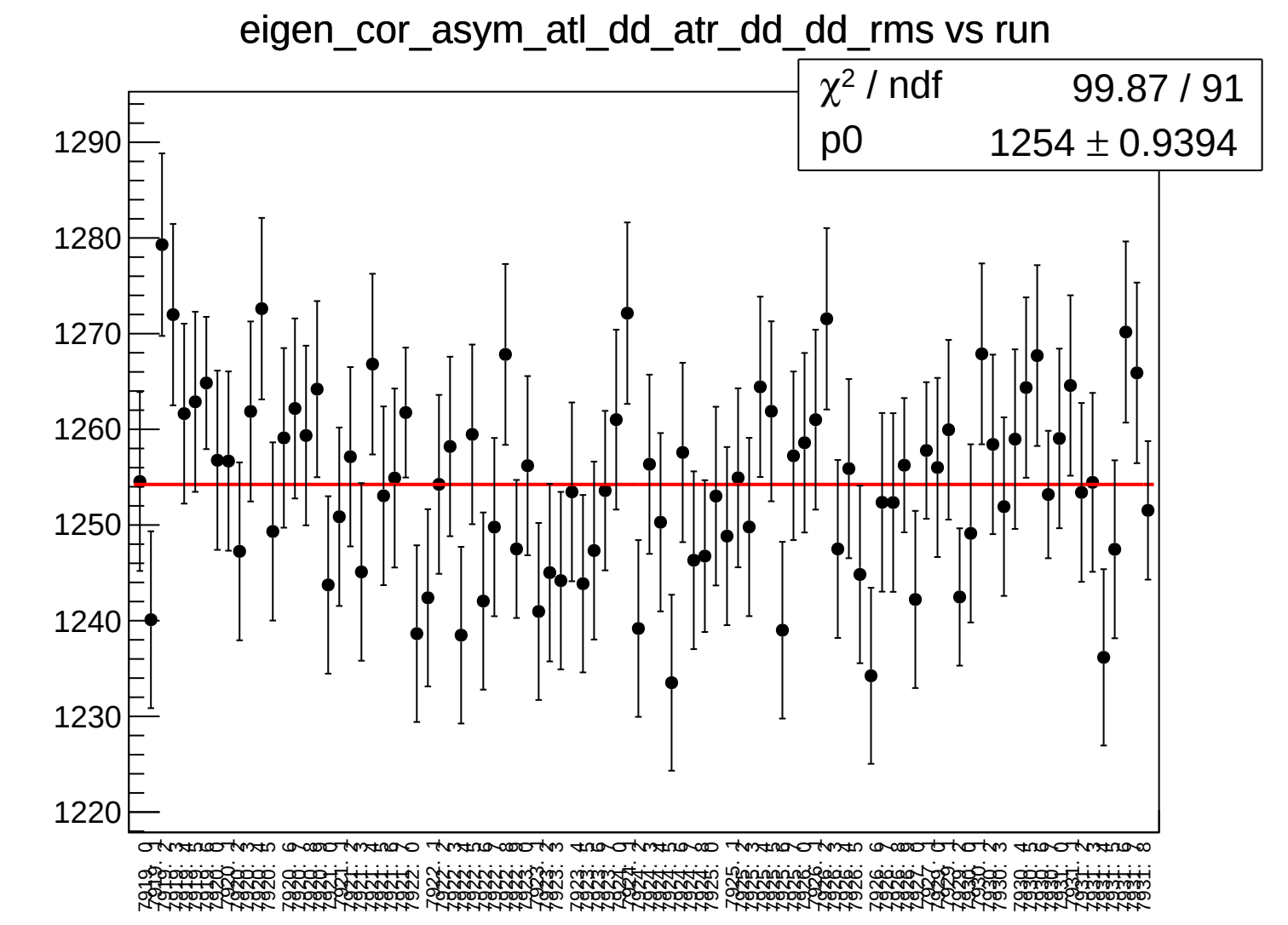

cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 99.87 / 91
p0 1254 ± 0.9394
1290
1280
1270
1260
1250
1240
1230
1220

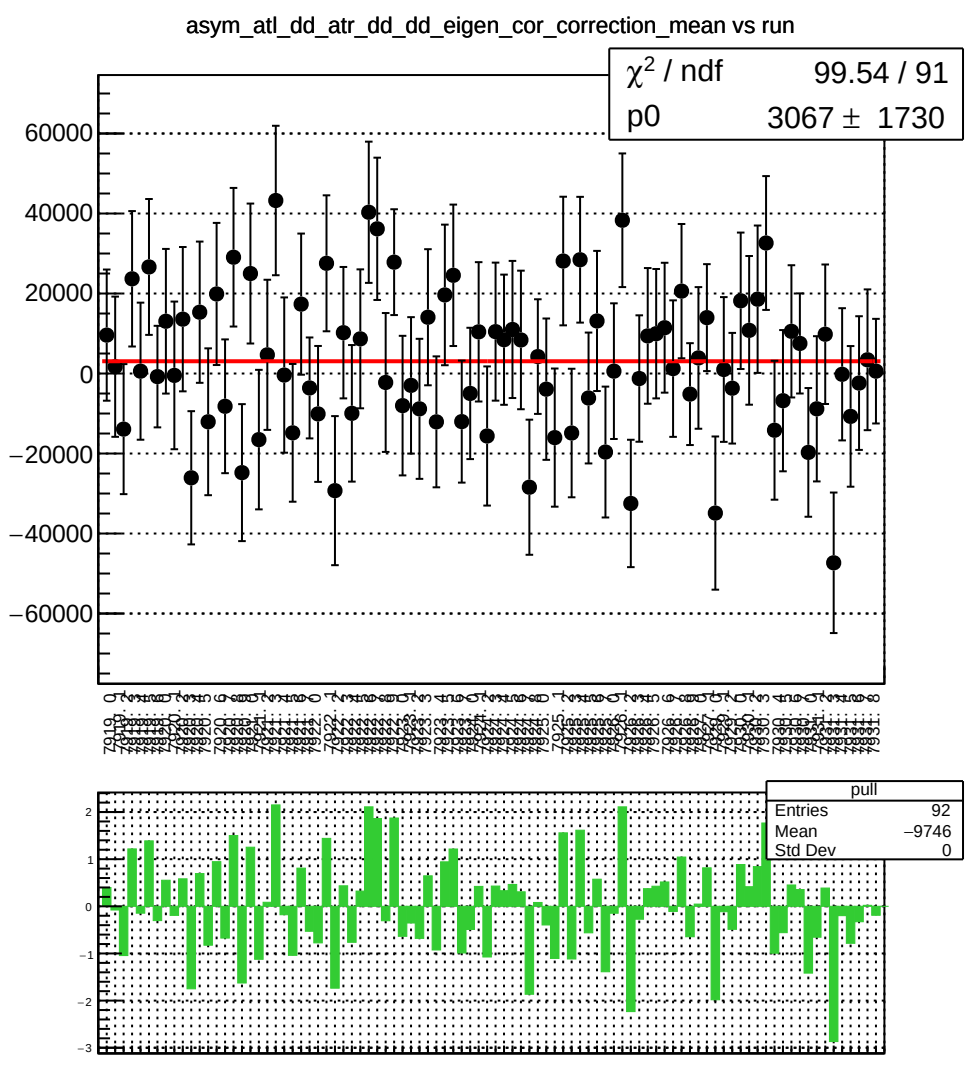

asym_atl_dd_atr_dd_dd_cor_correction_mean vs run
χ² / ndf 99.54 / 91
p0 3067 ± 1730
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −9746
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean 0.0003367
Std Dev 1.04
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

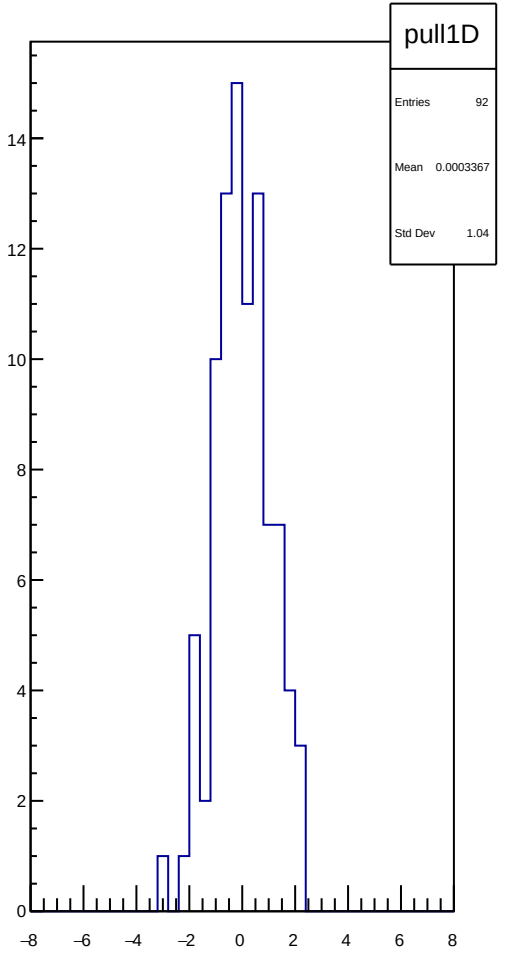

asym_atl_dd_atr_dd_dd_cor_correction_rms vs run
χ² / ndf 2939 / 91
p0 1632 ± 1.223
1850
1800
1750
1700
1650
1600
1550
1500
1450

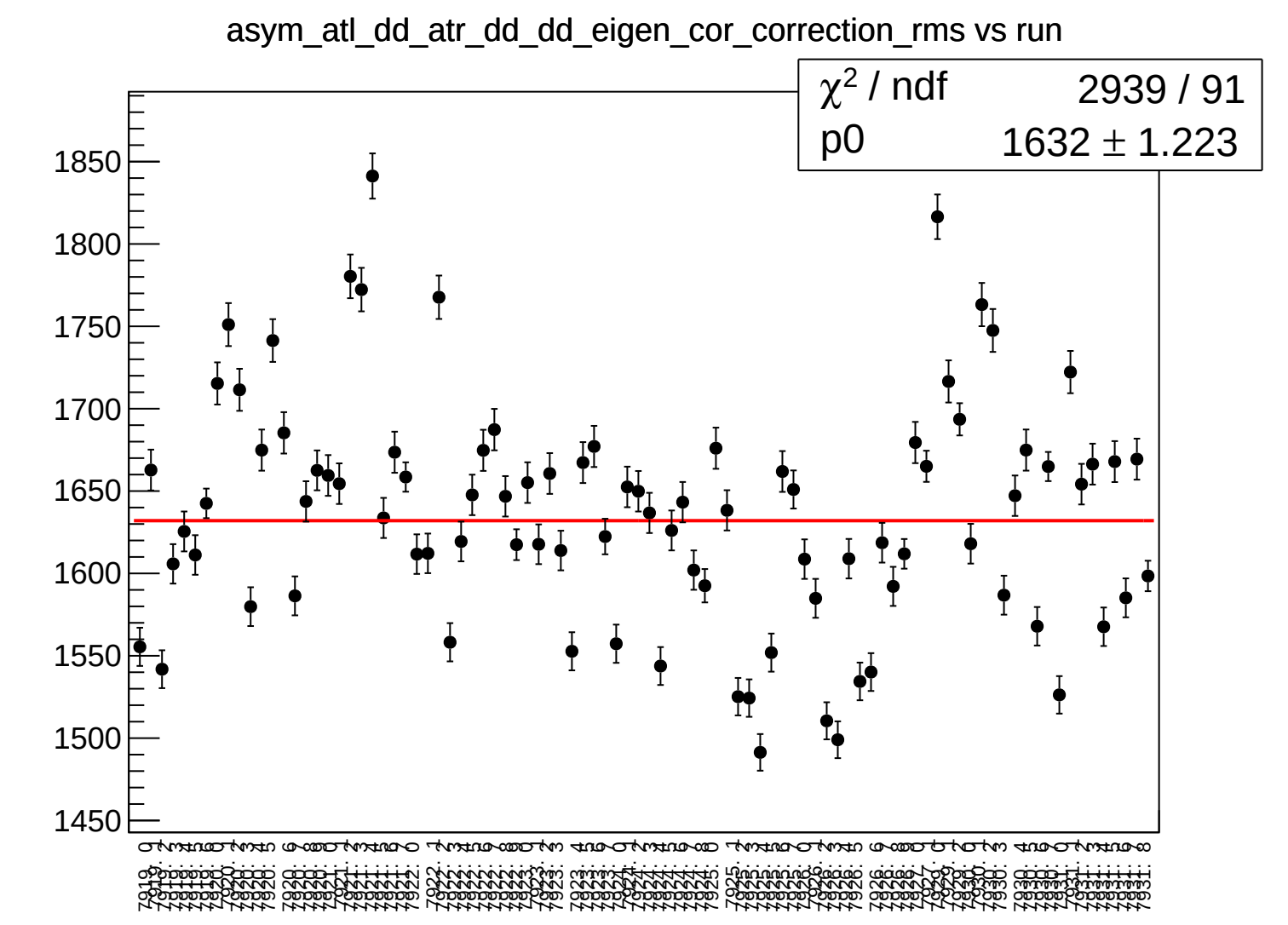

eigen_cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 83.93 / 91
p0 530.5 ± 1328
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 828.6
Std Dev 0
2
1
0
−1
−2

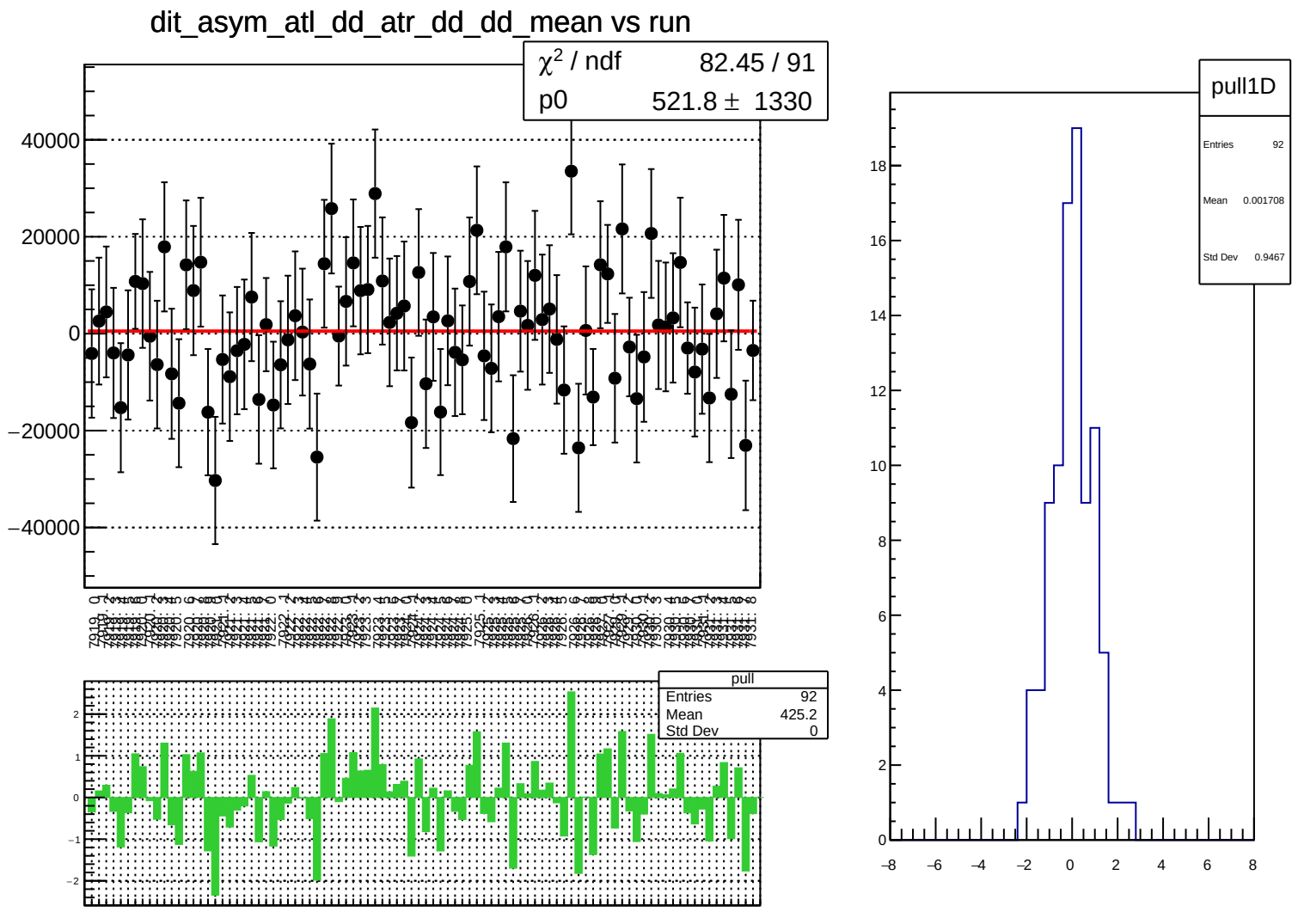

pull1D
Entries 92
Mean 0.0009955
Std Dev 0.9551
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

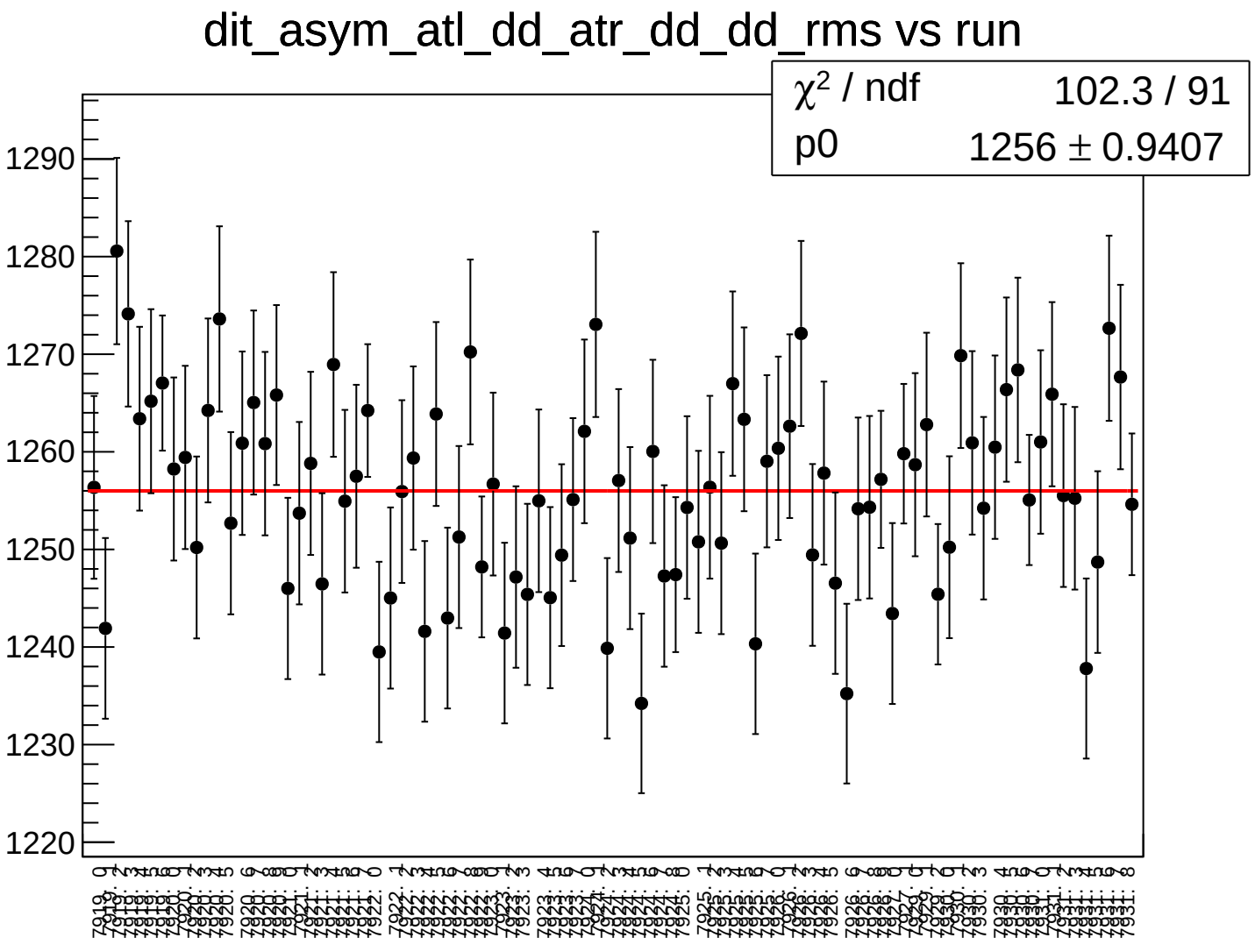

eigen_cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 99.87 / 91
p0 1254 ± 0.9394
1290
1280
1270
1260
1250
1240
1230
1220

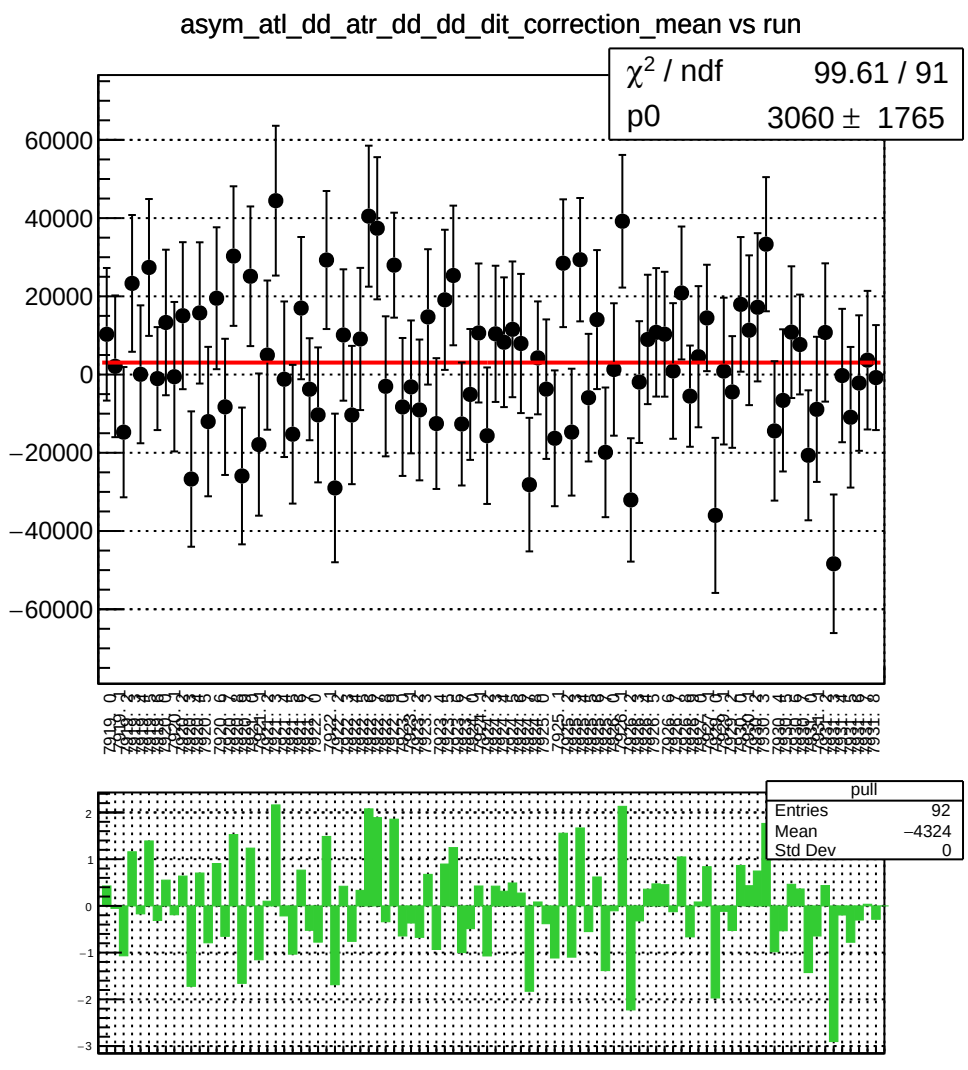

asym_atl_dd_atr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 99.54 / 91
p0 3067 ± 1730
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −9746
Std Dev 0
2
1
0
−1
−2
−3

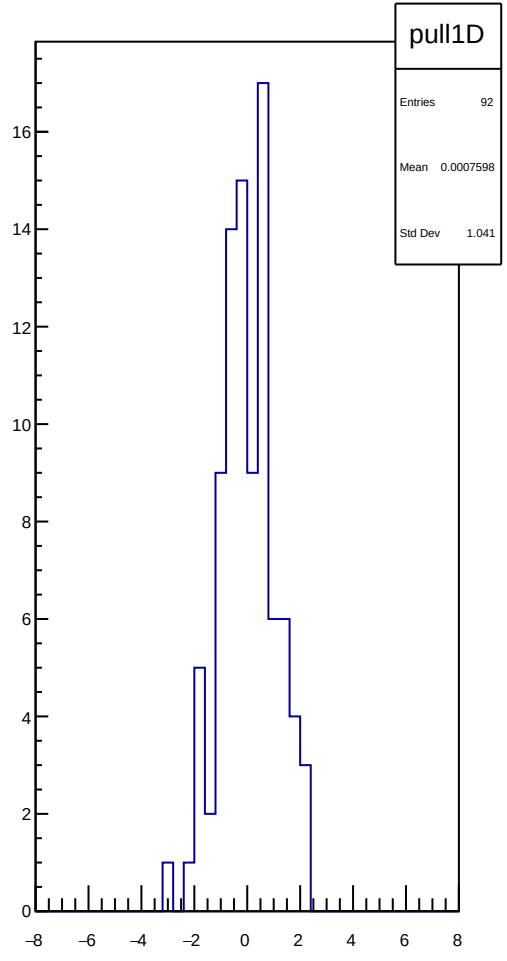

pull1D
Entries 92
Mean 0.0003367
Std Dev 1.04
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

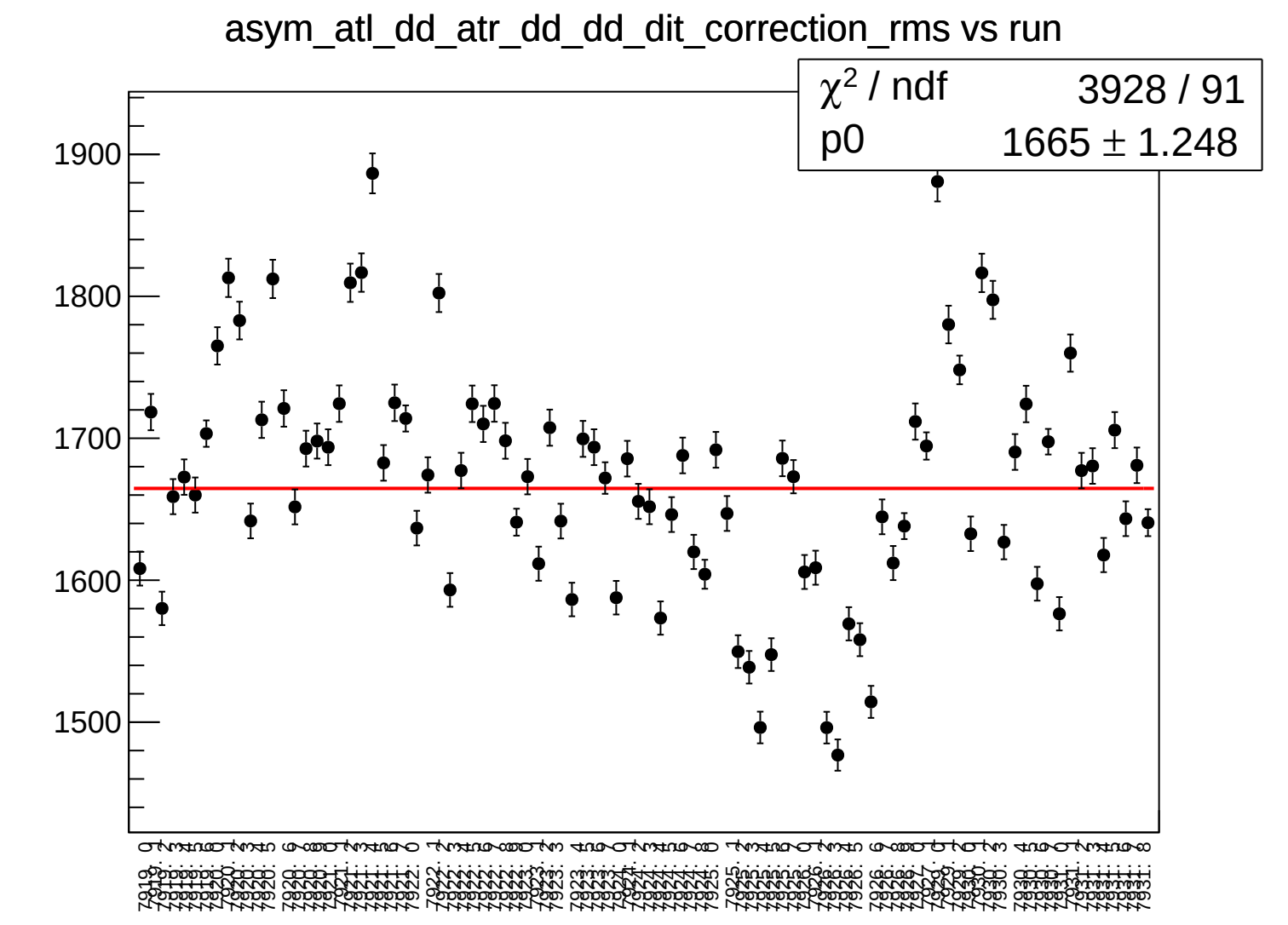

asym_atl_dd_atr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 2939 / 91
p0 1632 ± 1.223
1850
1800
1750
1700
1650
1600
1550
1500
1450

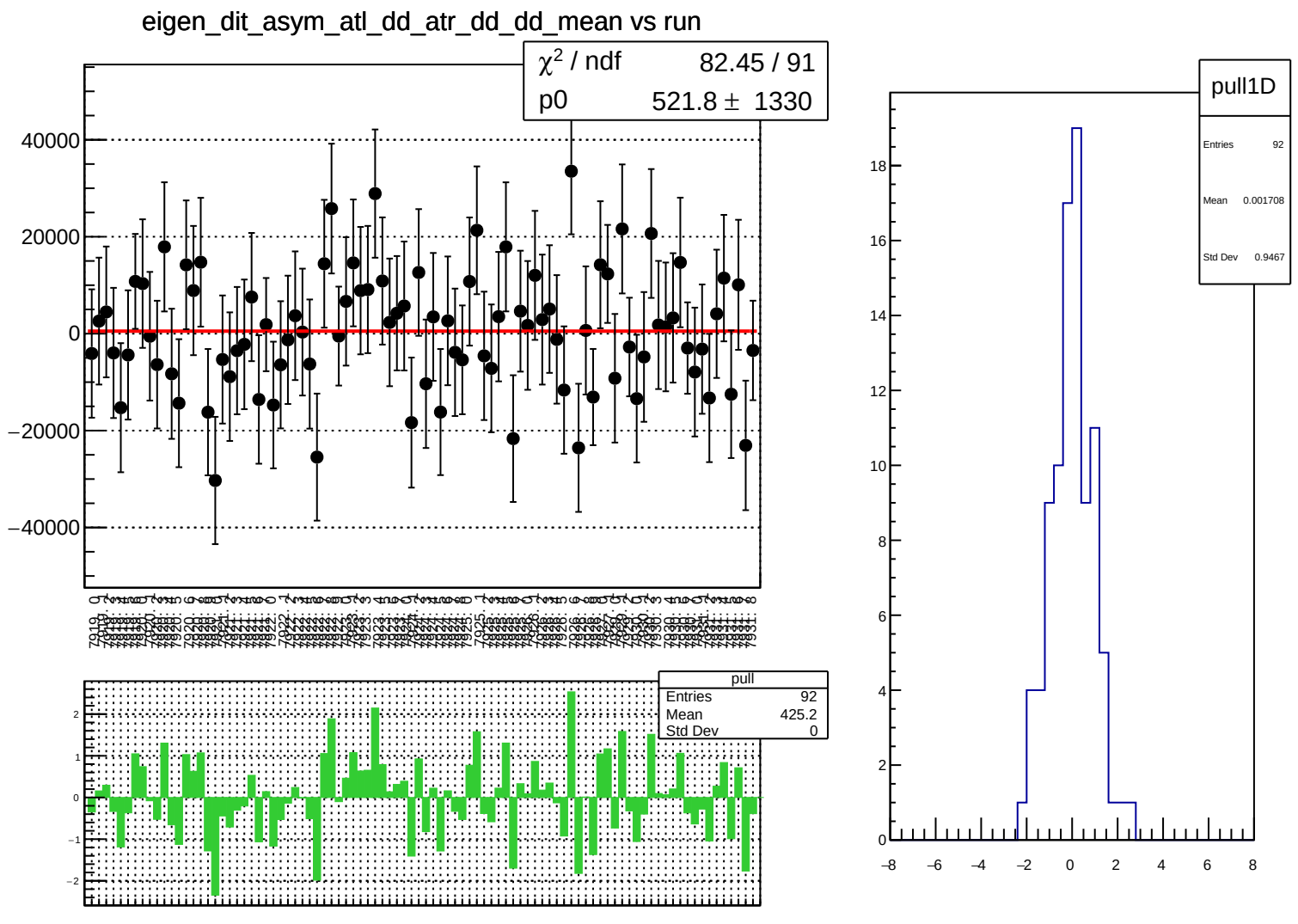

dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 82.45 / 91
p0 521.8 ± 1330
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 425.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.001708
Std Dev 0.9467
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

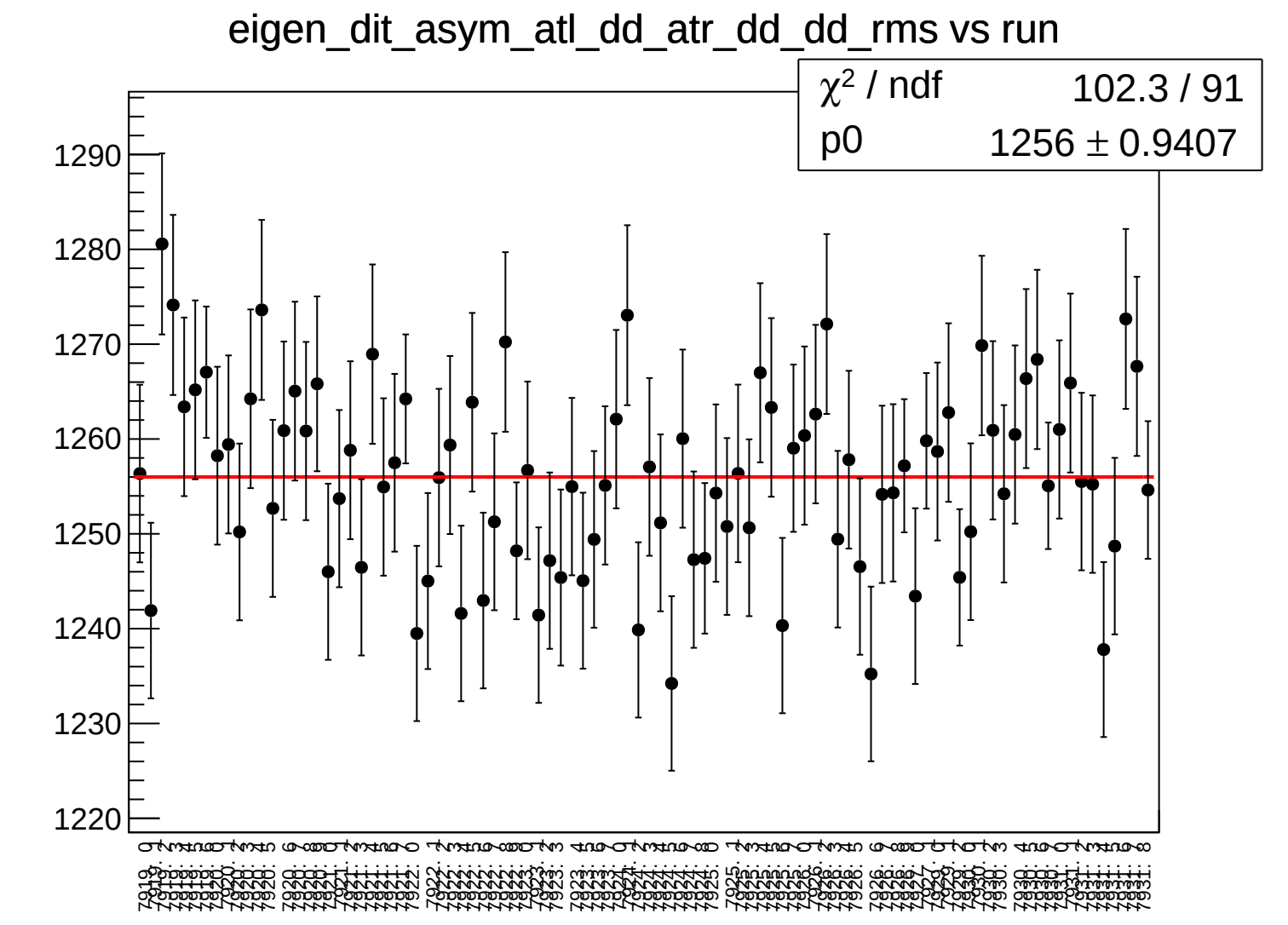

dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 102.3 / 91
p0 1256 ± 0.9407
1290
1280
1270
1260
1250
1240
1230
1220

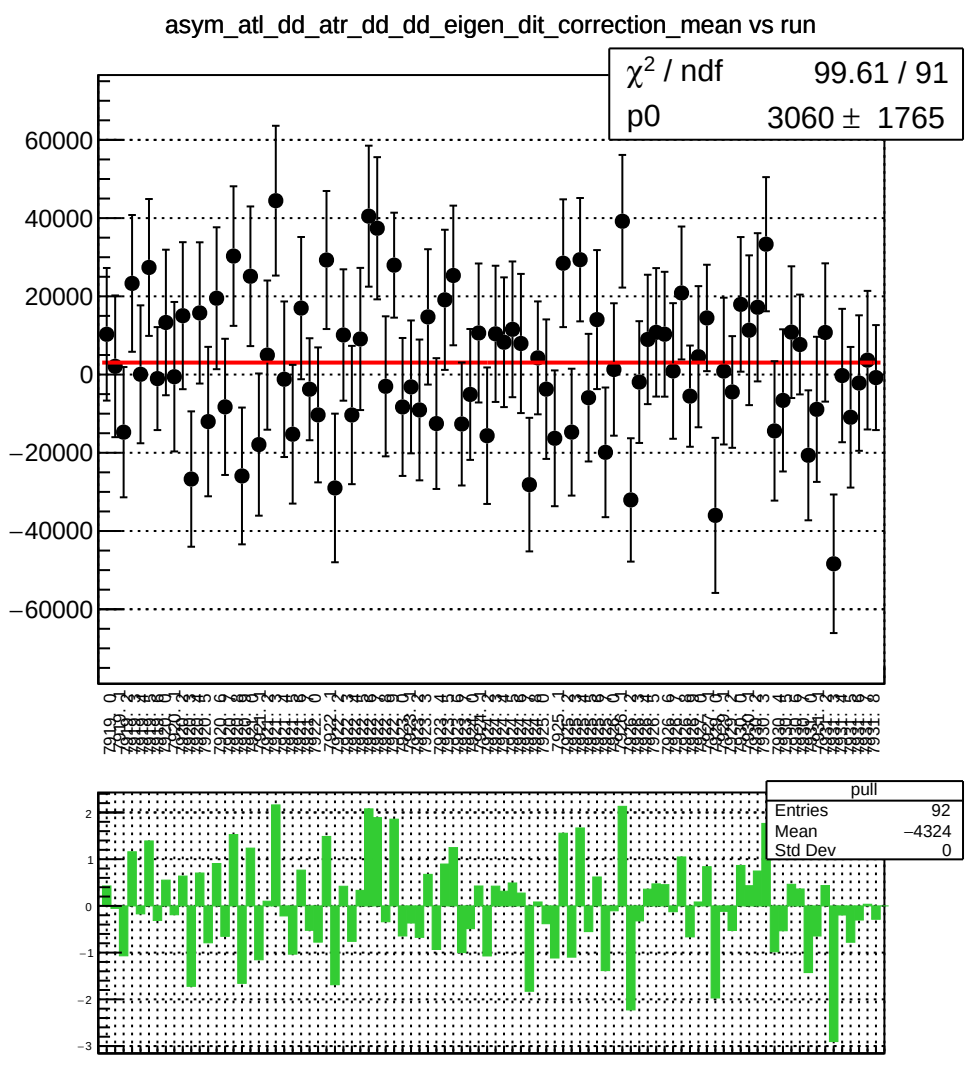

asym_atl_dd_atr_dd_dd_dit_correction_mean vs run
χ² / ndf 99.61 / 91
p0 3060 ± 1765
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −4324
Std Dev 0
2
1
0
−1
−2
−3

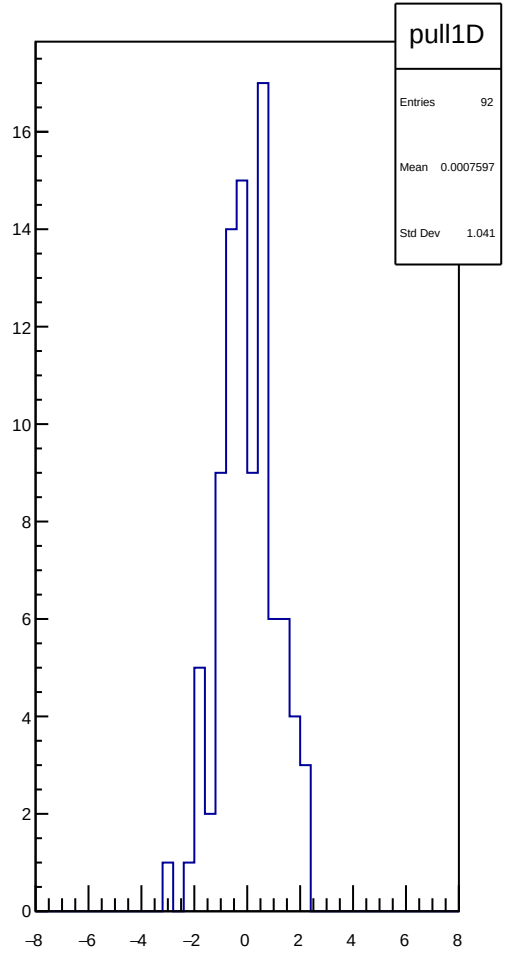

pull1D
Entries 92
Mean 0.0007598
Std Dev 1.041
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

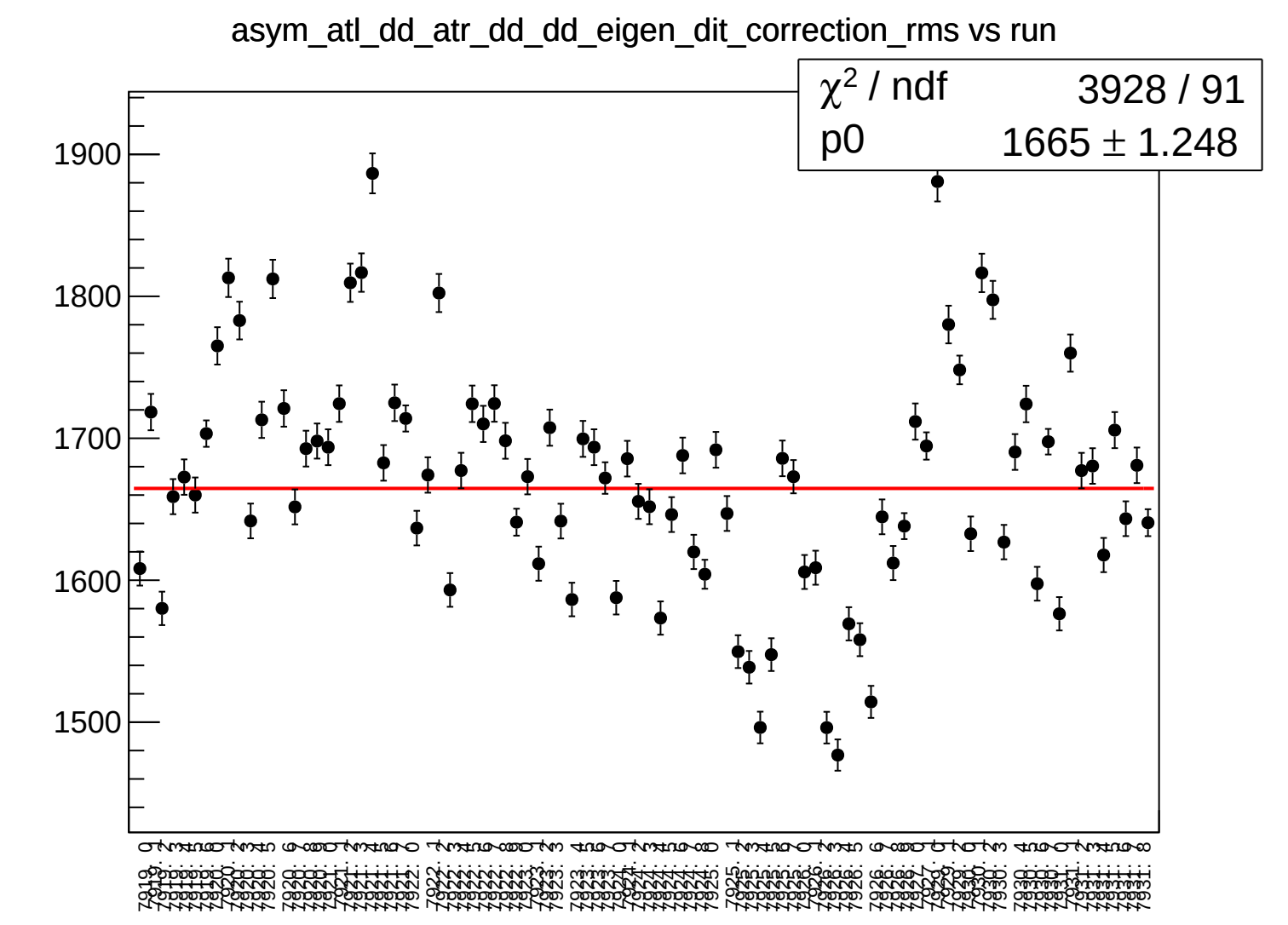

asym_atl_dd_atr_dd_dd_dit_correction_rms vs run
χ² / ndf 3928 / 91
p0 1665 ± 1.248
1900
1800
1700
1600
1500

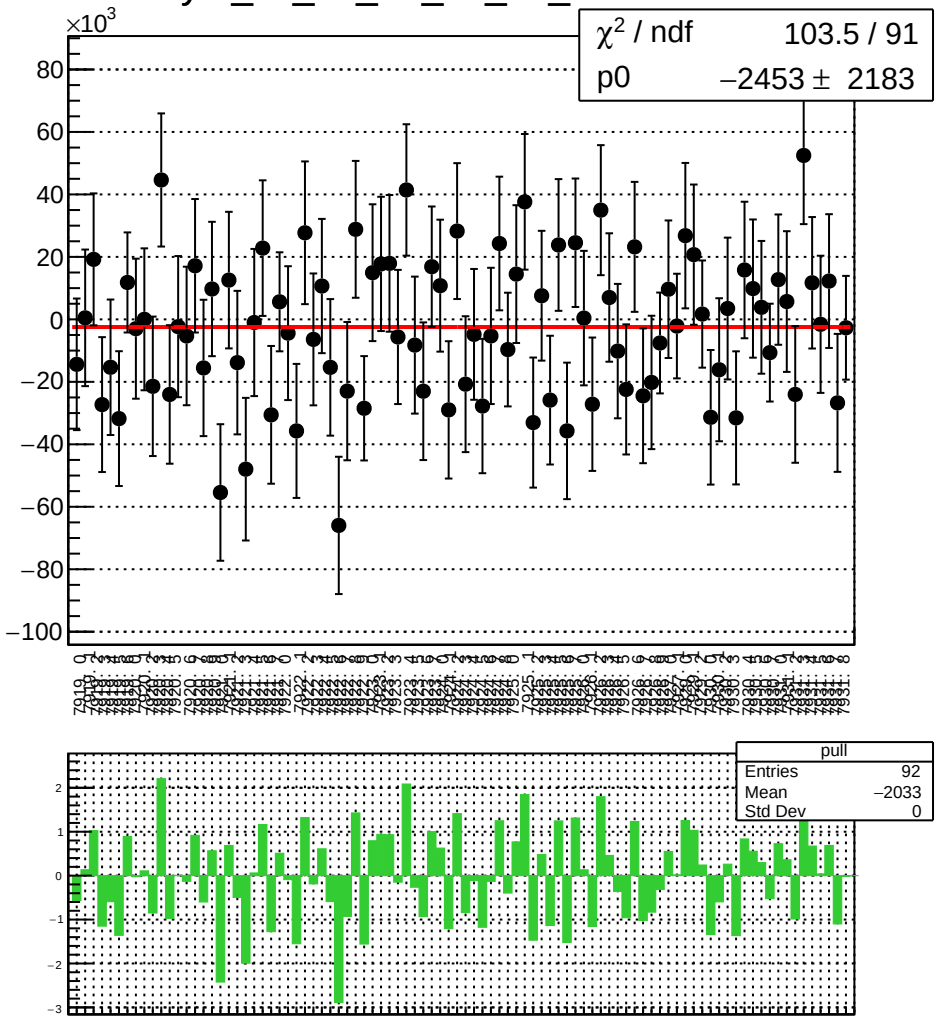

eigen_dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 82.45 / 91
p0 521.8 ± 1330
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 425.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.001708
Std Dev 0.9467
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

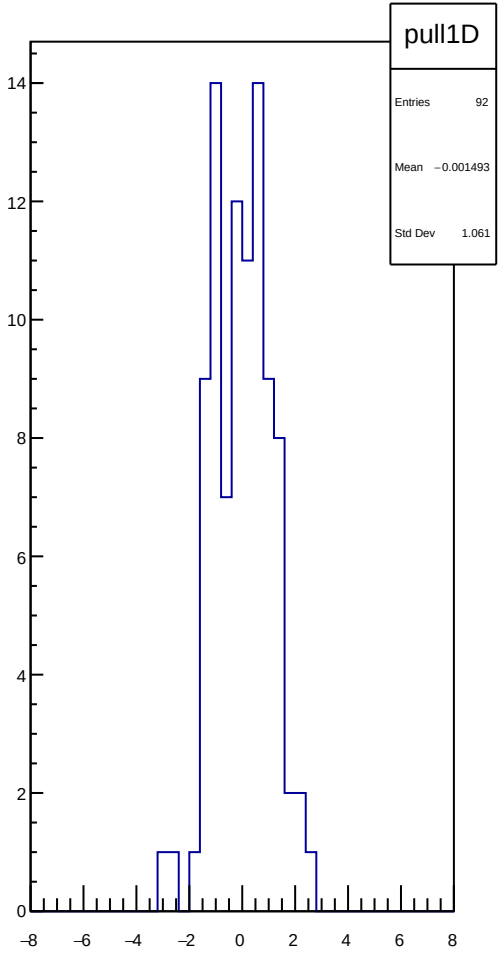

eigen_dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 102.3 / 91
p0 1256 ± 0.9407
1290
1280
1270
1260
1250
1240
1230
1220

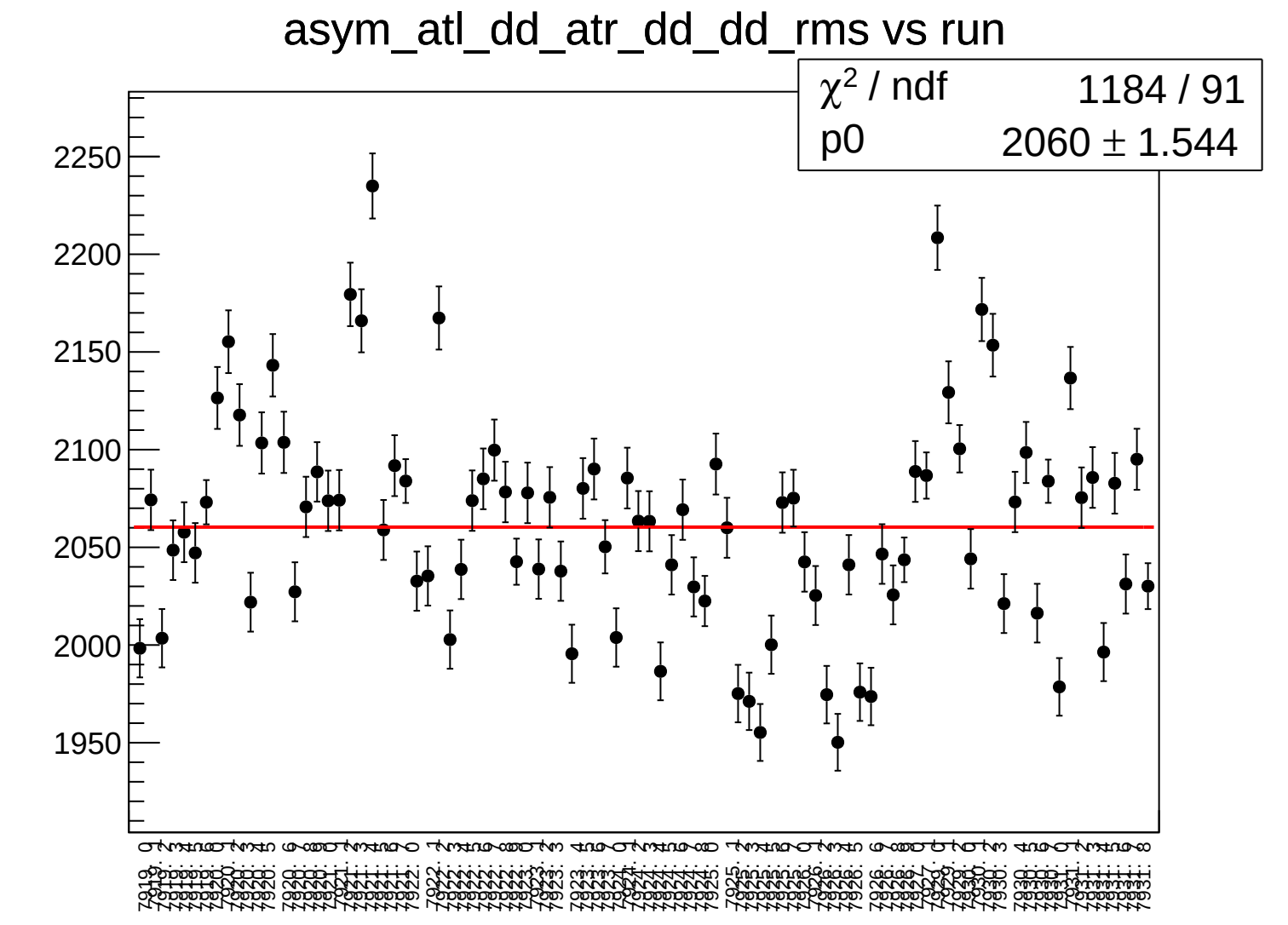

asym_atl_dd_atr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 99.61 / 91
p0 3060 ± 1765
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −4324
Std Dev 0
2
1
0
−1
−2
−3

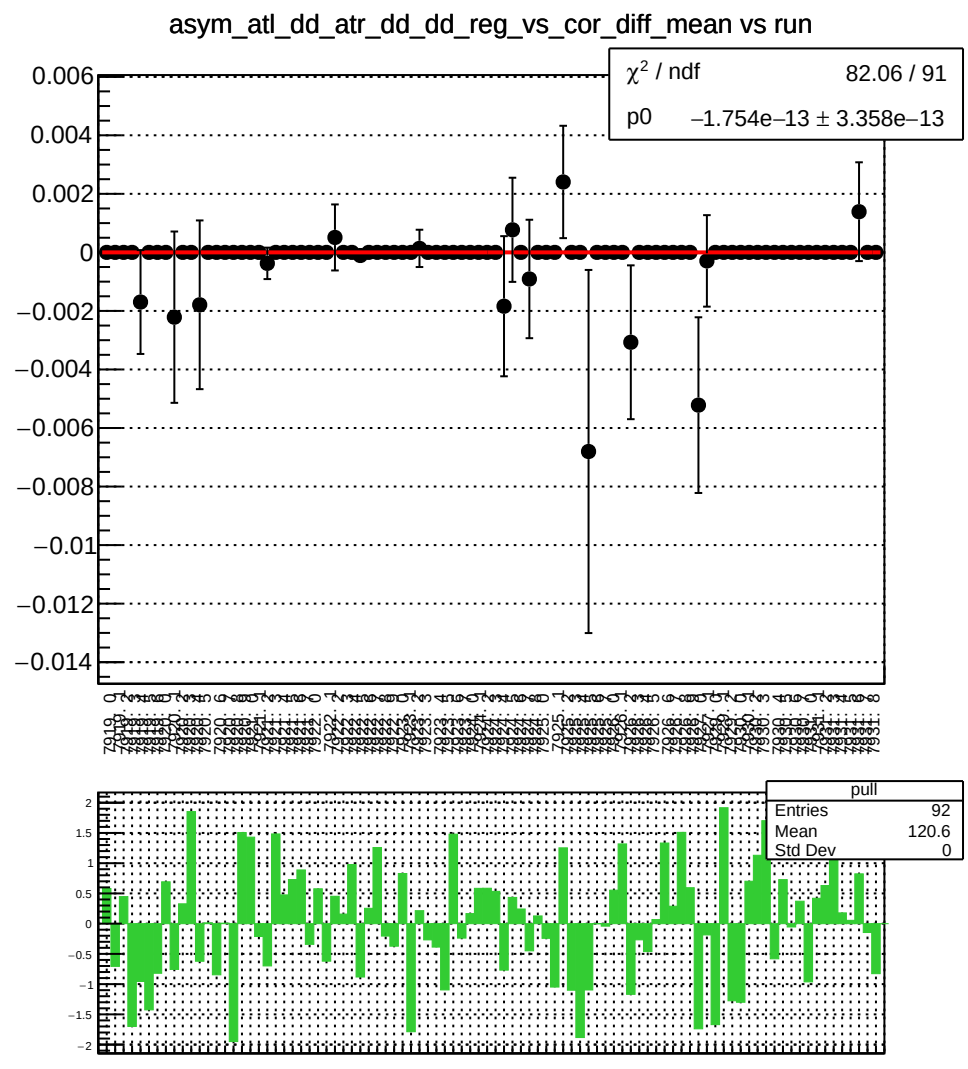

pull1D
Entries 92
Mean 0.0007597
Std Dev 1.041
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

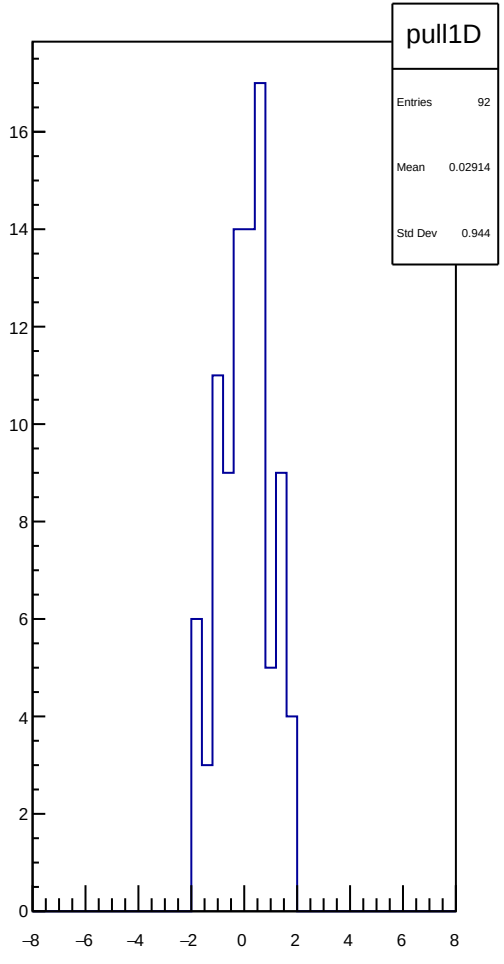

asym_atl_dd_atr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 3928 / 91
p0 1665 ± 1.248
1900
1800
1700
1600
1500

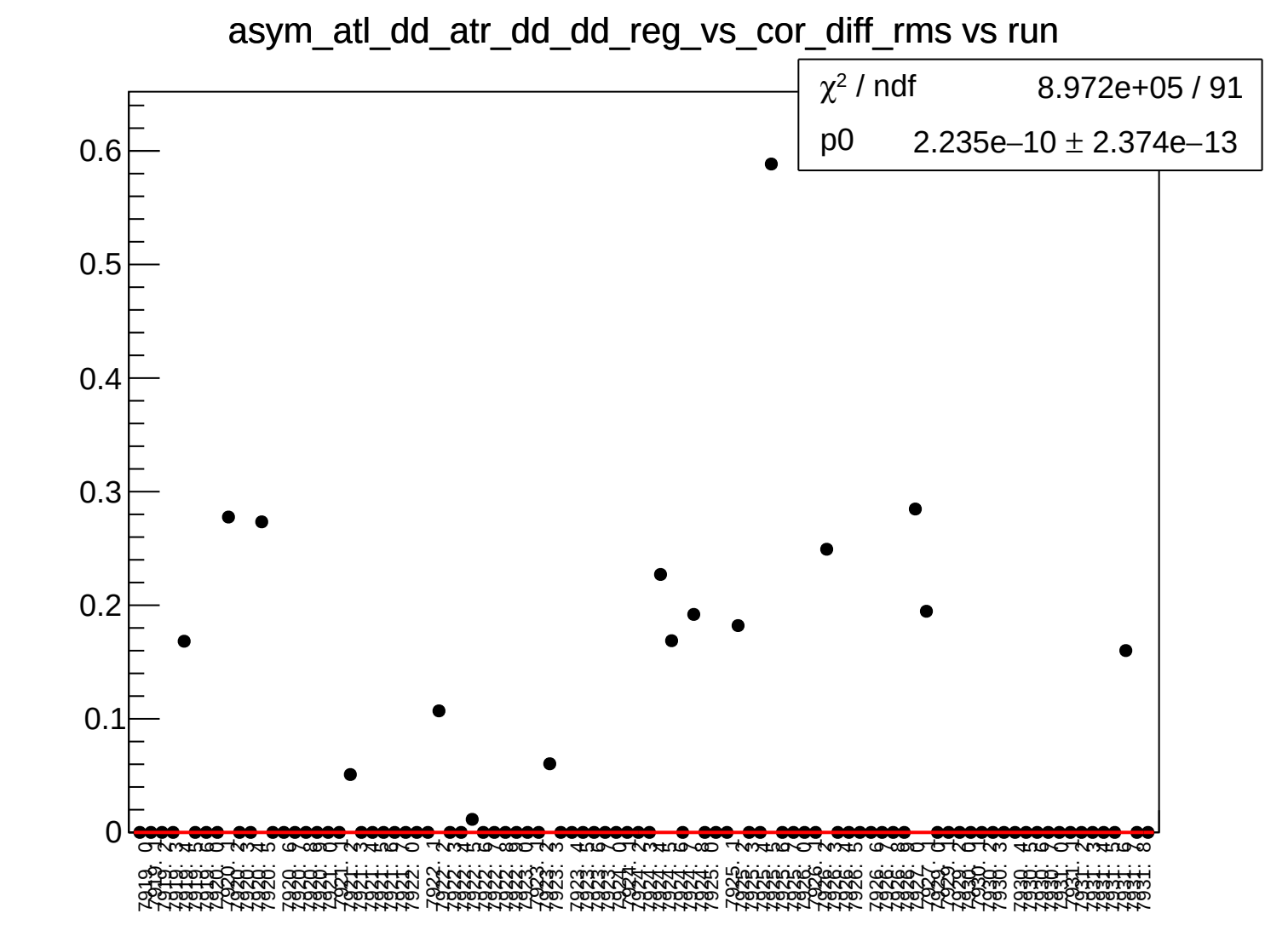

asym_atl_dd_atr_dd_dd_mean vs run
×10^3
χ² / ndf 103.5 / 91
p0 −2453 ± 2183
pull
Entries 92
Mean −2033
Std Dev 0

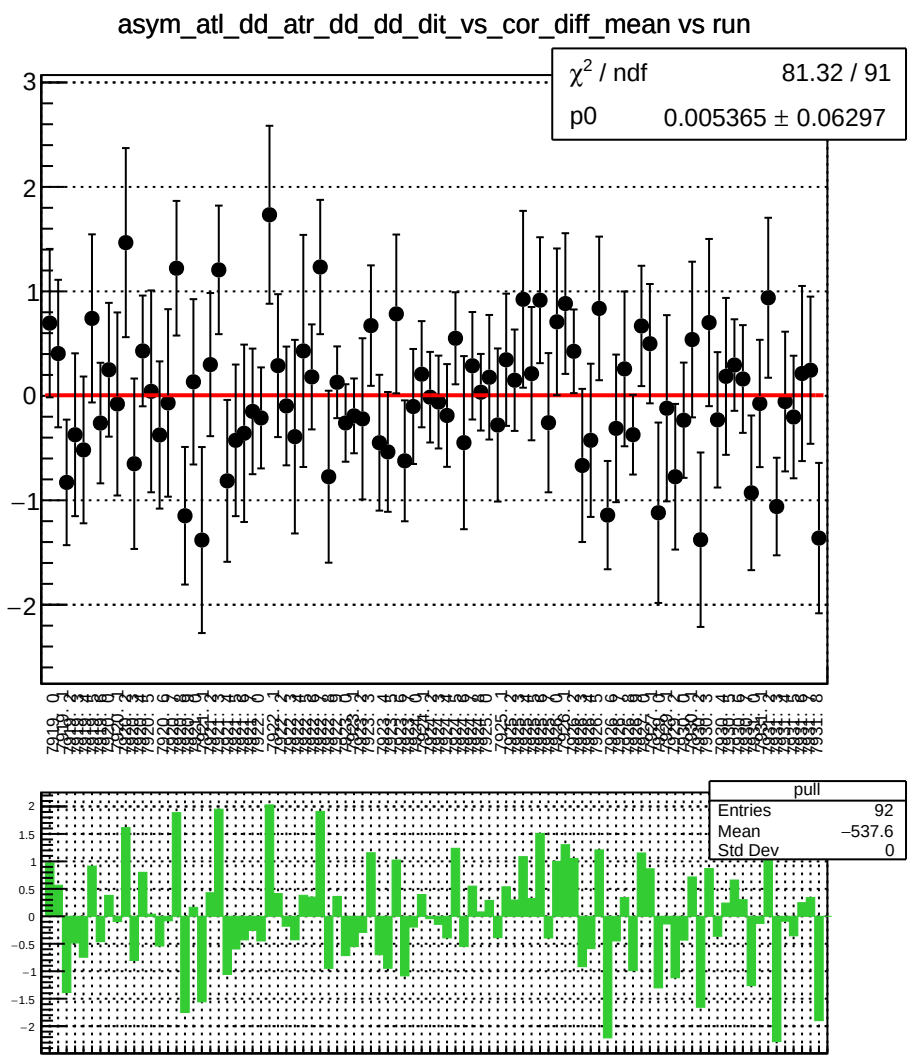

pull1D
Entries 92
Mean −0.001493
Std Dev 1.061

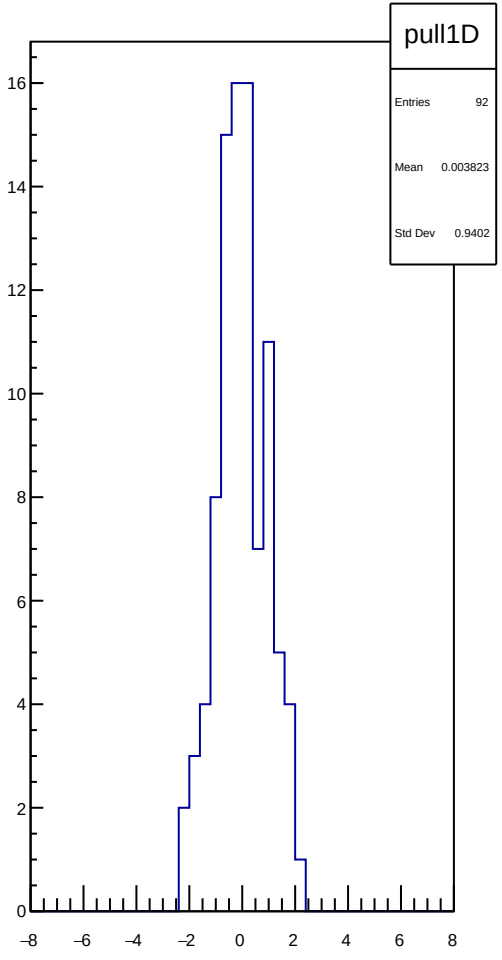

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 1184 / 91
p0 2060 ± 1.544
2250
2200
2150
2100
2050
2000
1950

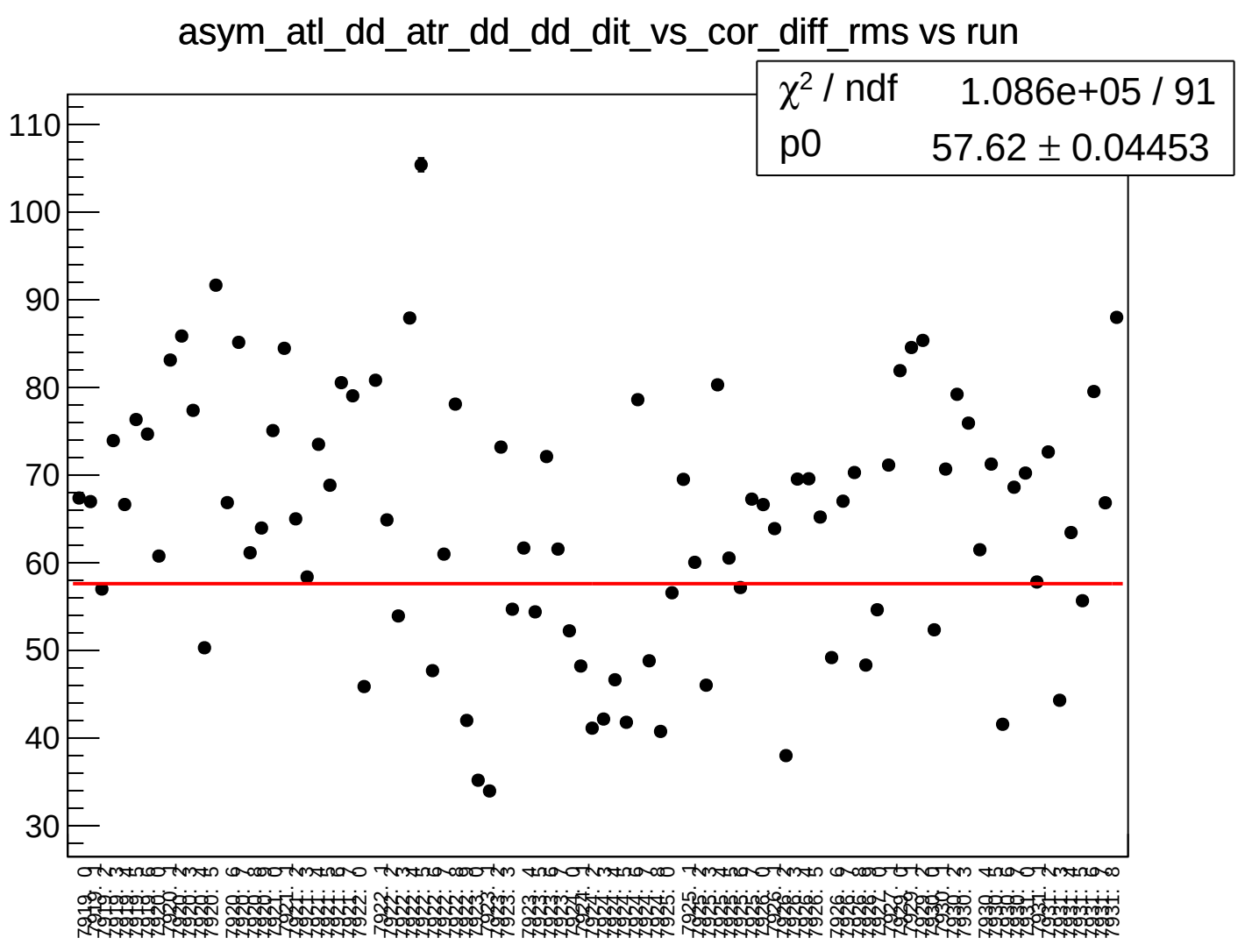

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 82.06 / 91
p0 −1.754e−13 ± 3.358e−13
pull
Entries 92
Mean 120.6
Std Dev 0

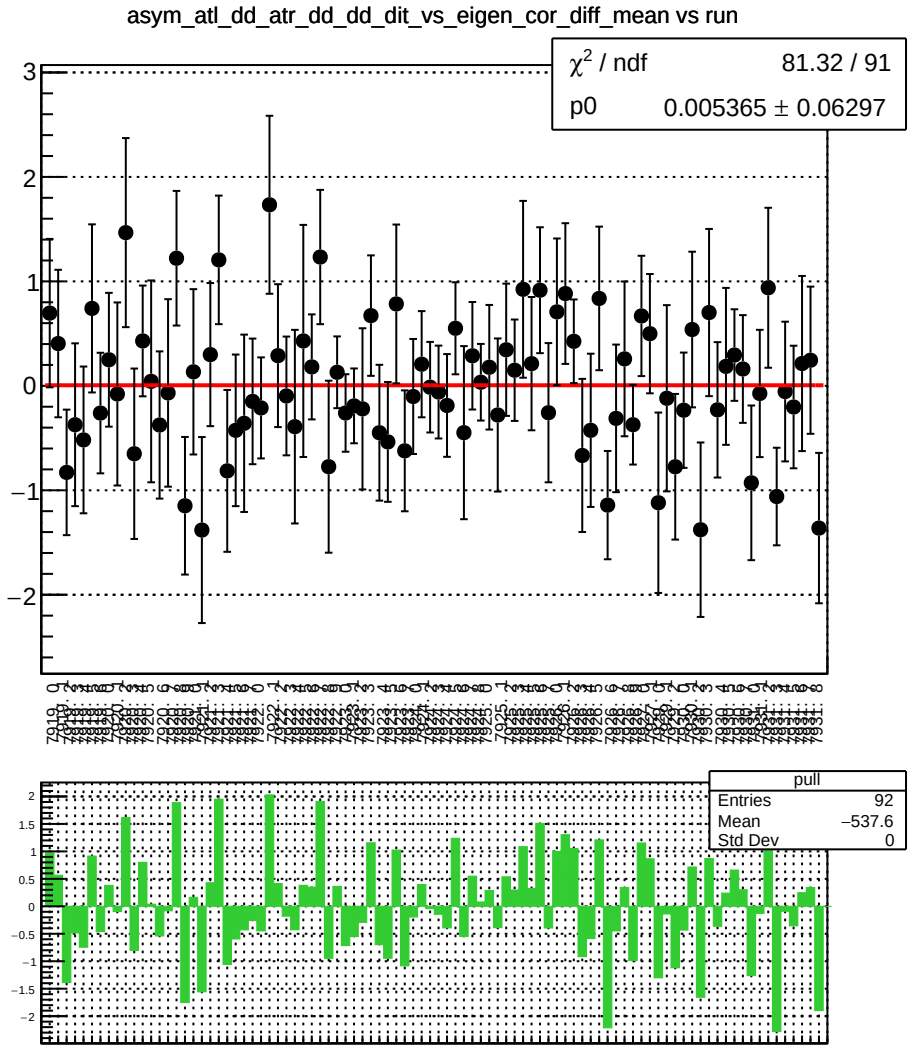

pull1D
Entries 92
Mean 0.02914
Std Dev 0.944

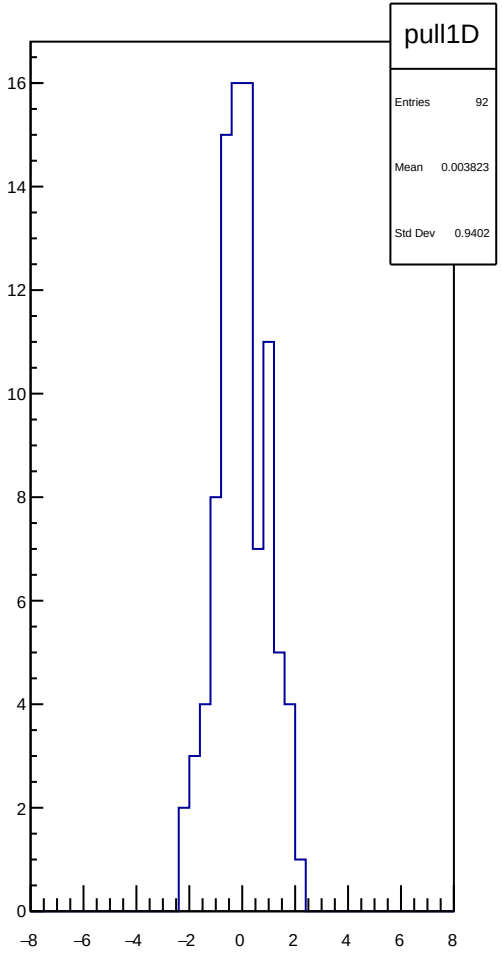

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.972e+05 / 91
p0 2.235e−10 ± 2.374e−13
0.6
0.5
0.4
0.3
0.2
0.1
0

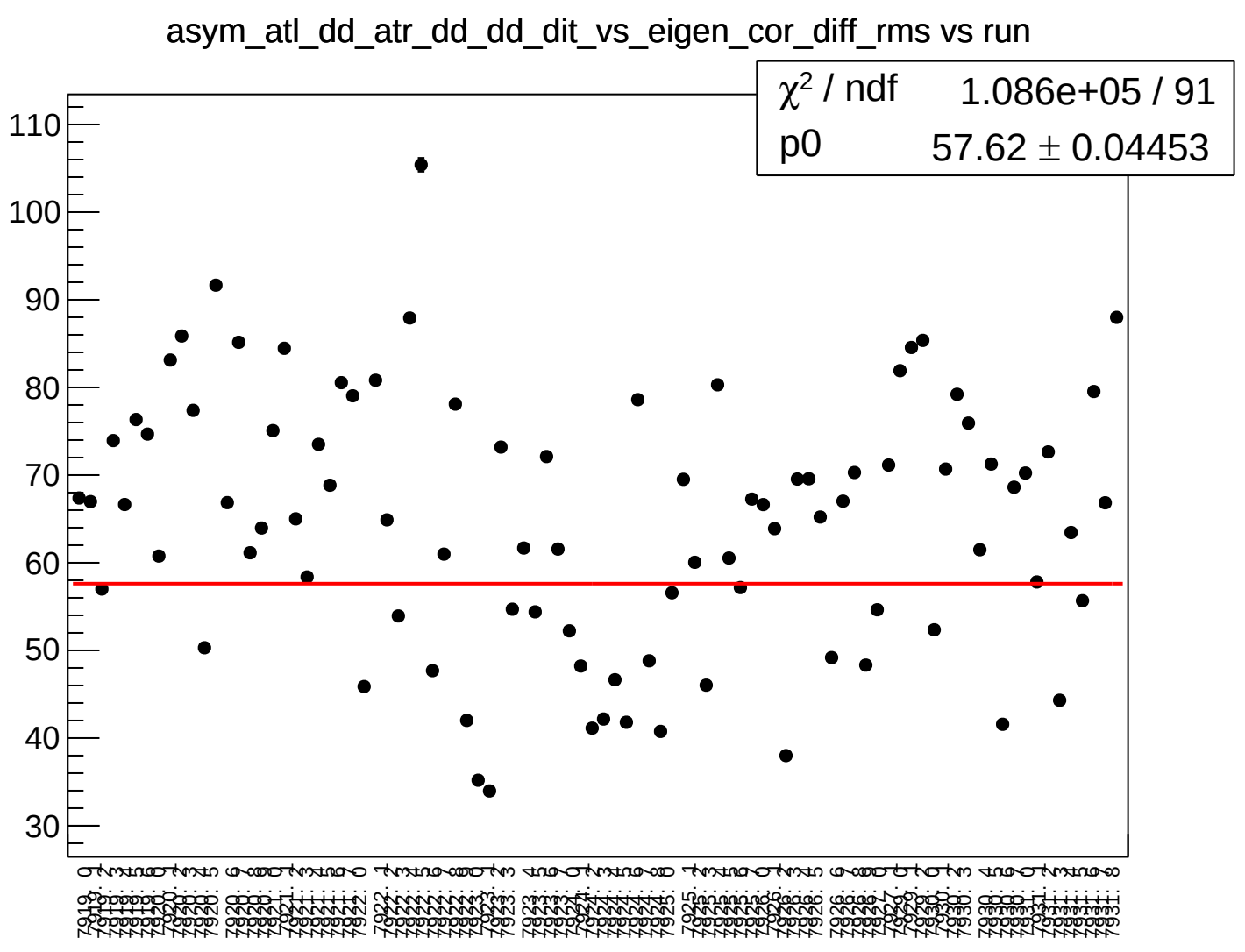

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 81.32 / 91
p0 0.005365 ± 0.06297
pull
Entries 92
Mean −537.6
Std Dev 0

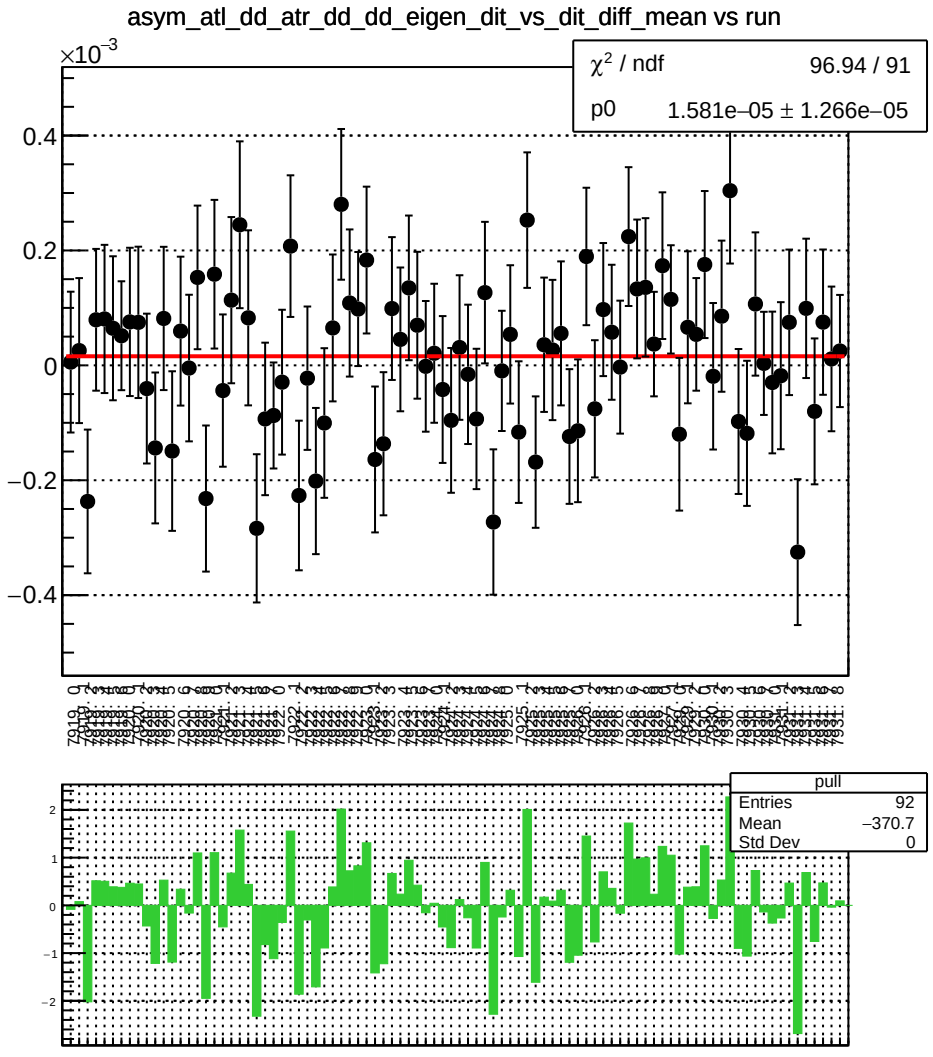

pull1D
Entries 92
Mean 0.003823
Std Dev 0.9402

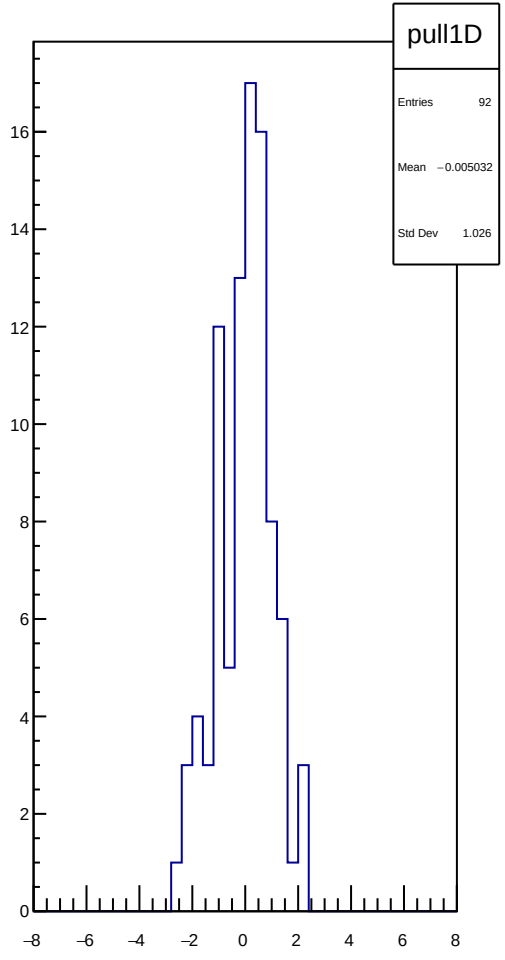

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.086e+05 / 91
p0 57.62 ± 0.04453
110
100
90
80
70
60
50
40
30

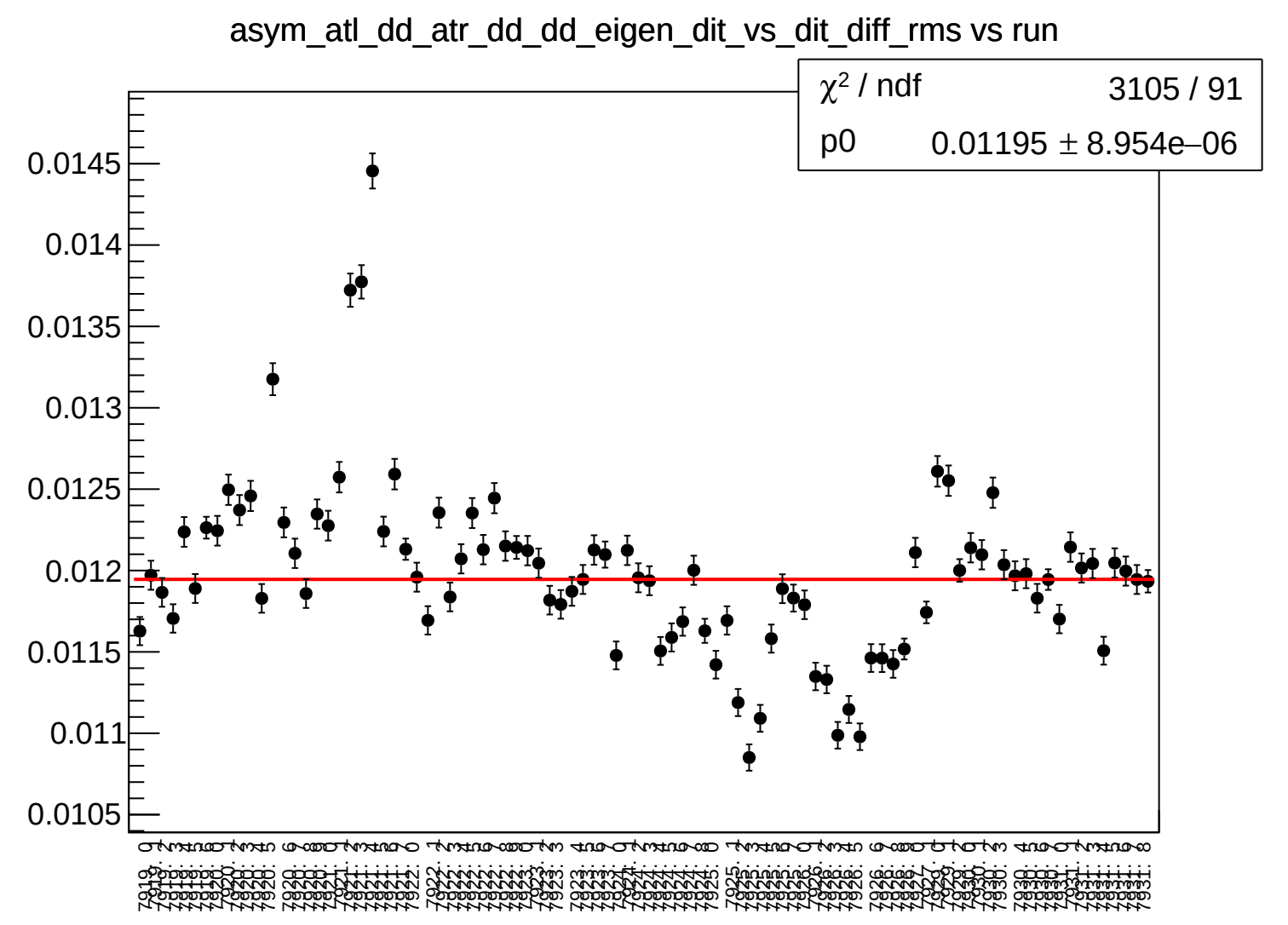

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.32 / 91
p0 0.005365 ± 0.06297
pull
Entries 92
Mean −537.6
Std Dev 0

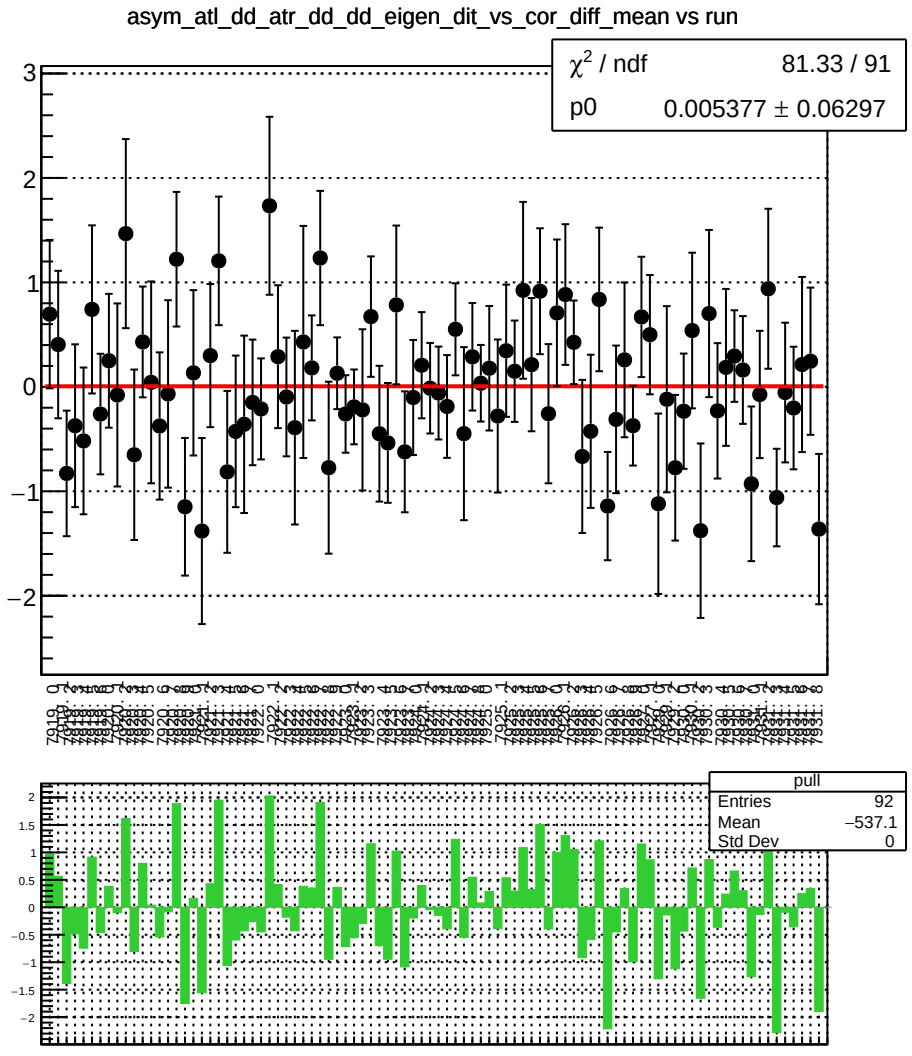

pull1D
Entries 92
Mean 0.003823
Std Dev 0.9402

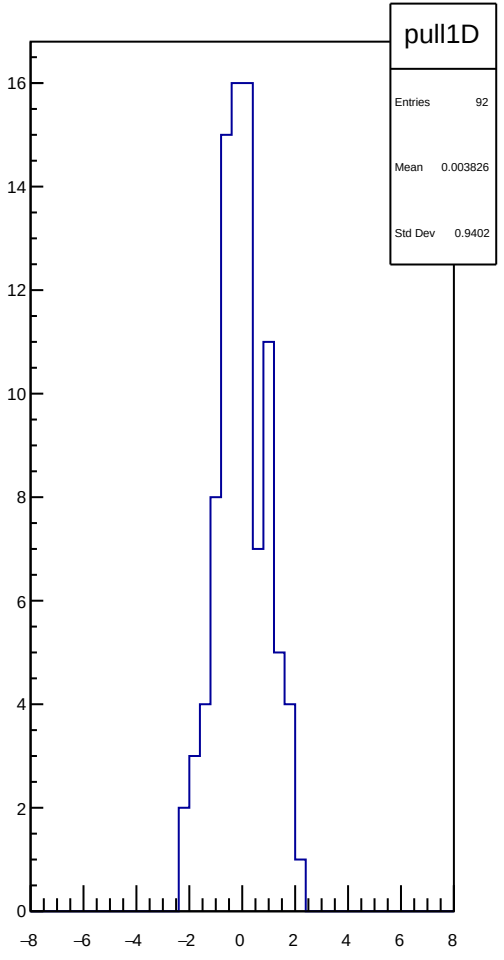

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.086e+05 / 91
p0 57.62 ± 0.04453
110
100
90
80
70
60
50
40
30

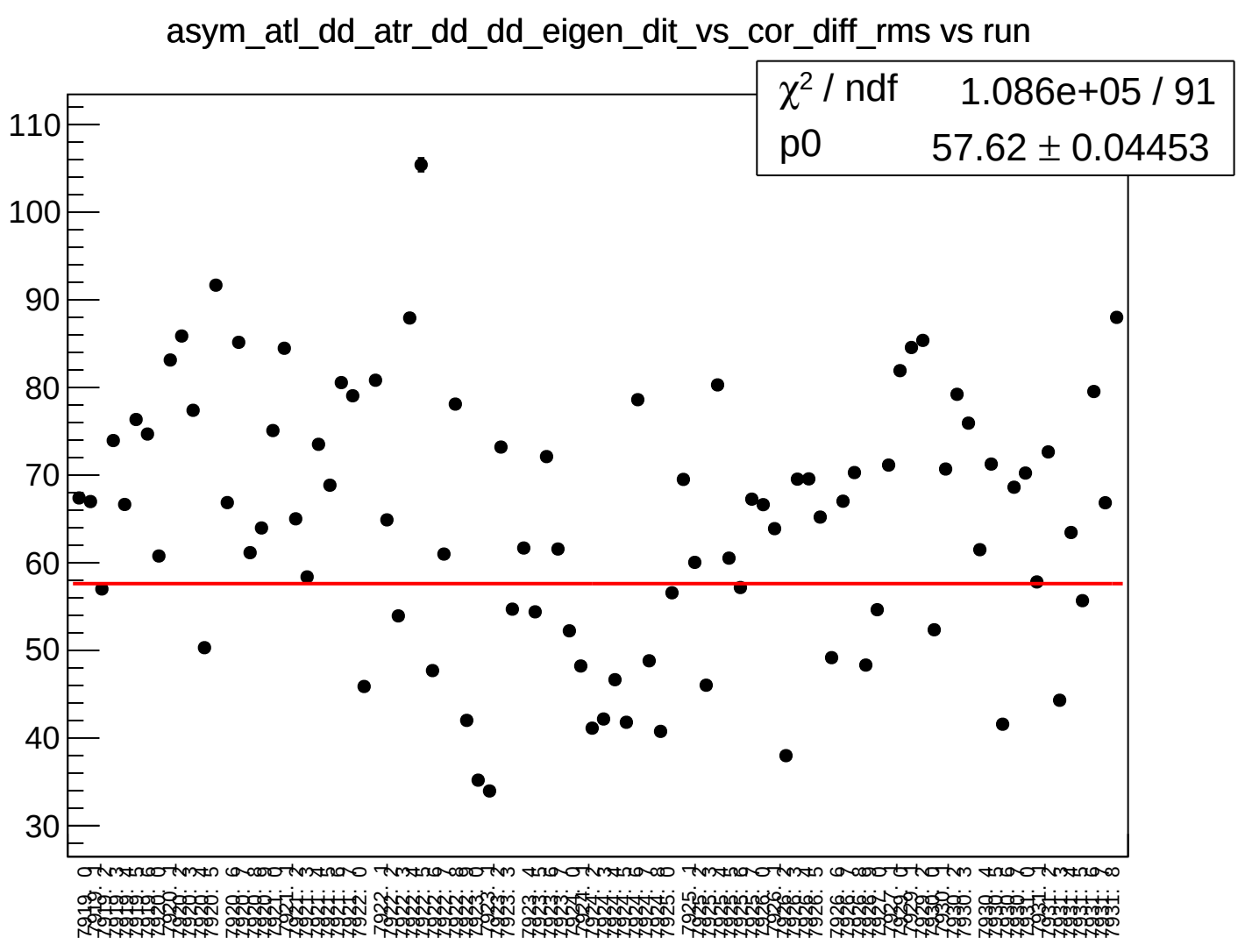

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.94 / 91
p0 1.581e−05 ± 1.266e−05
0.4
0.2
0
−0.2
−0.4
pull
Entries 92
Mean −370.7
Std Dev 0
2
1
0
−1
−2

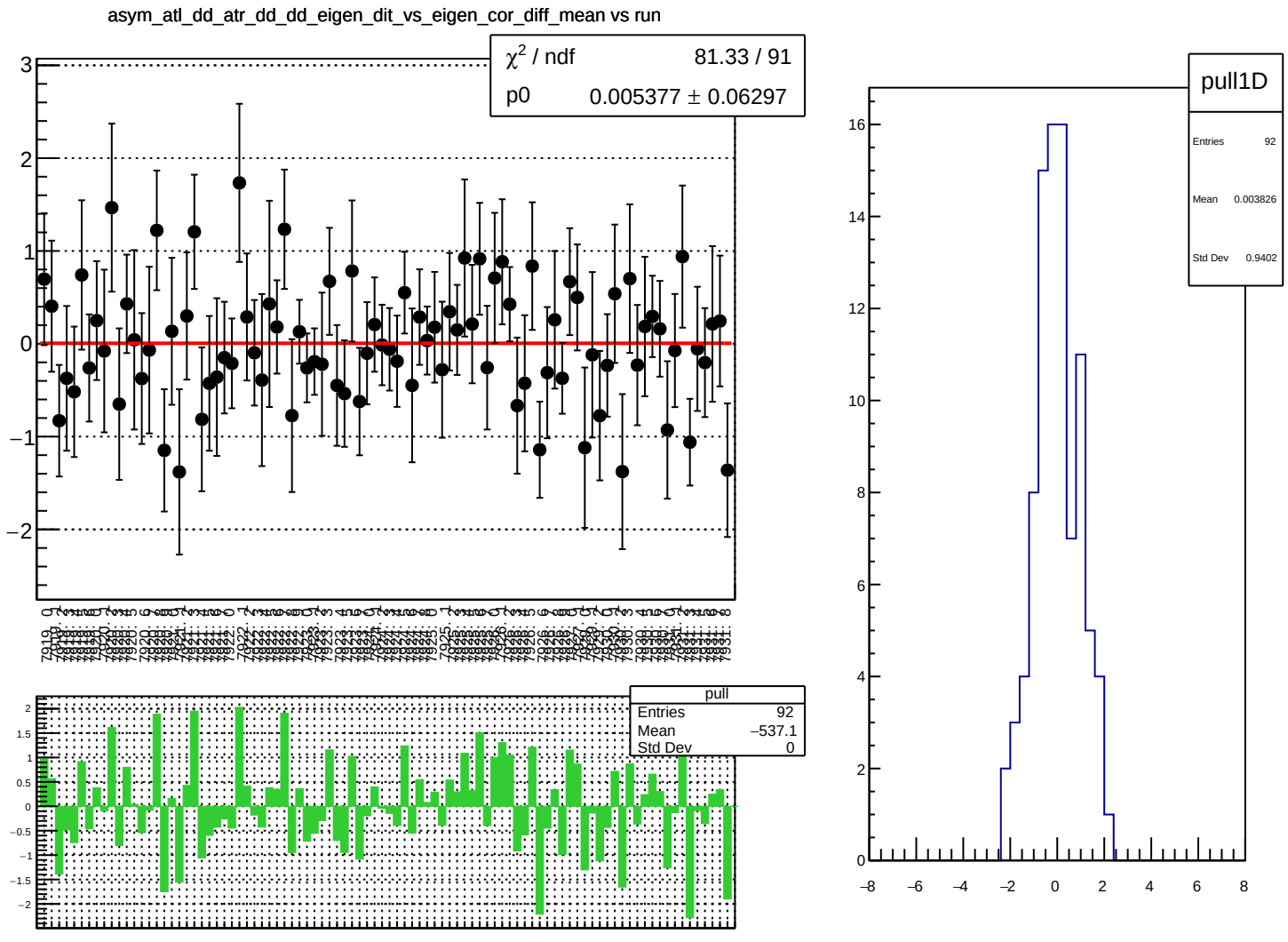

pull1D
Entries 92
Mean −0.005032
Std Dev 1.026
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

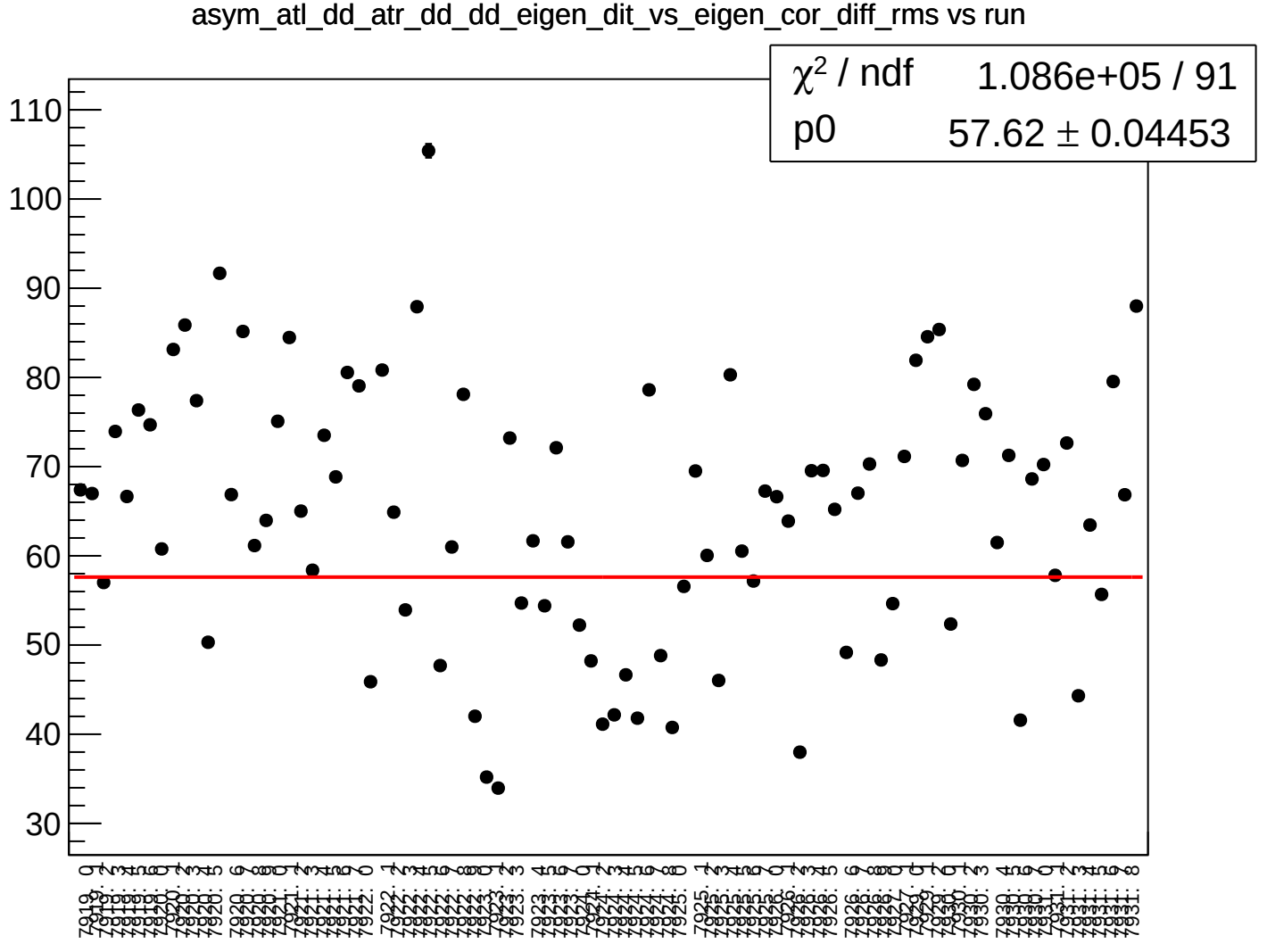

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3105 / 91
p0 0.01195 ± 8.954e−06
0.0145
0.014
0.0135
0.013
0.0125
0.012
0.0115
0.011
0.0105

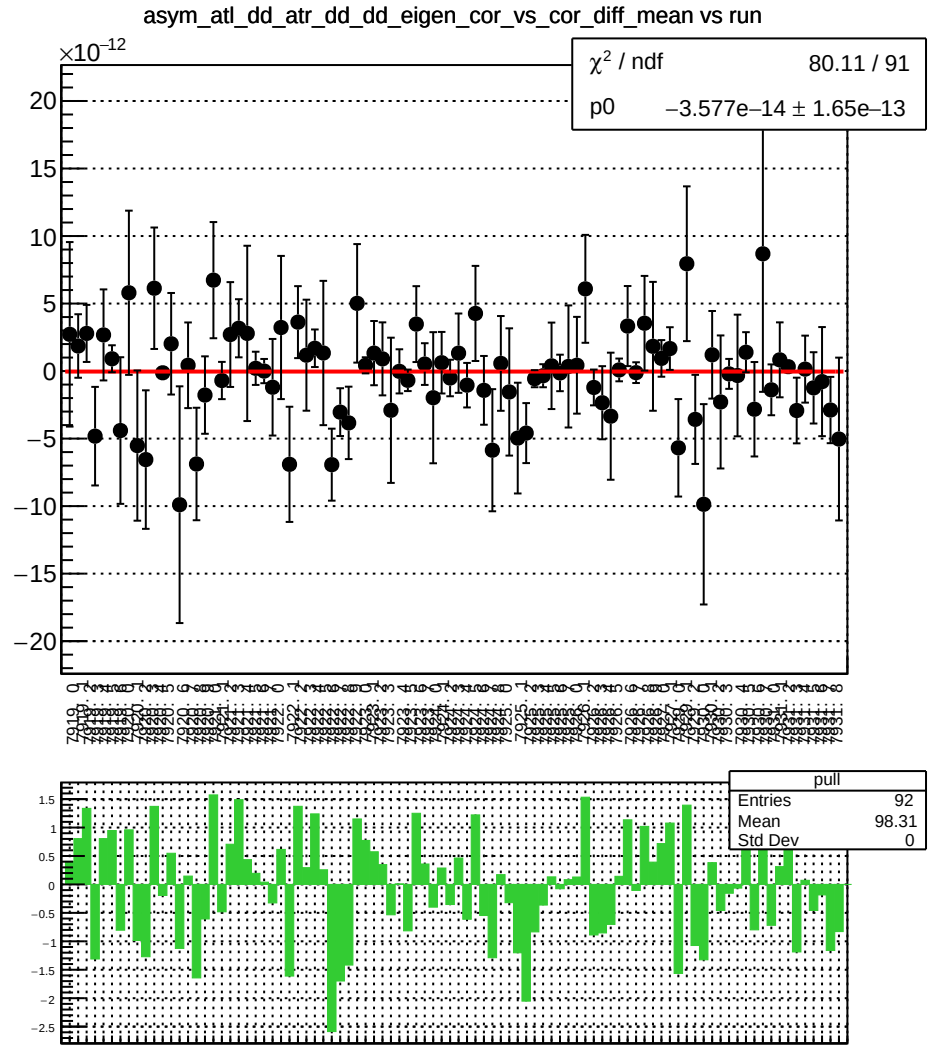

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.33 / 91
p0 0.005377 ± 0.06297
pull
Entries 92
Mean −537.1
Std Dev 0

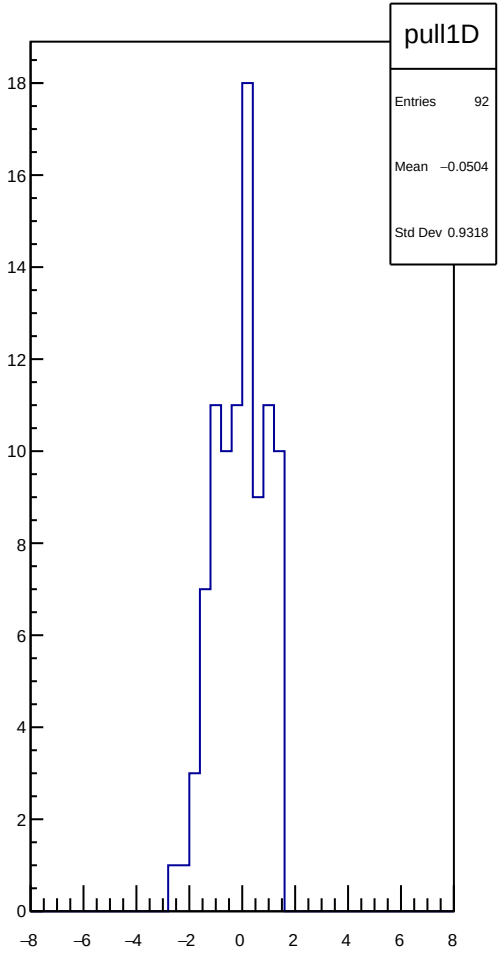

pull1D
Entries 92
Mean 0.003826
Std Dev 0.9402

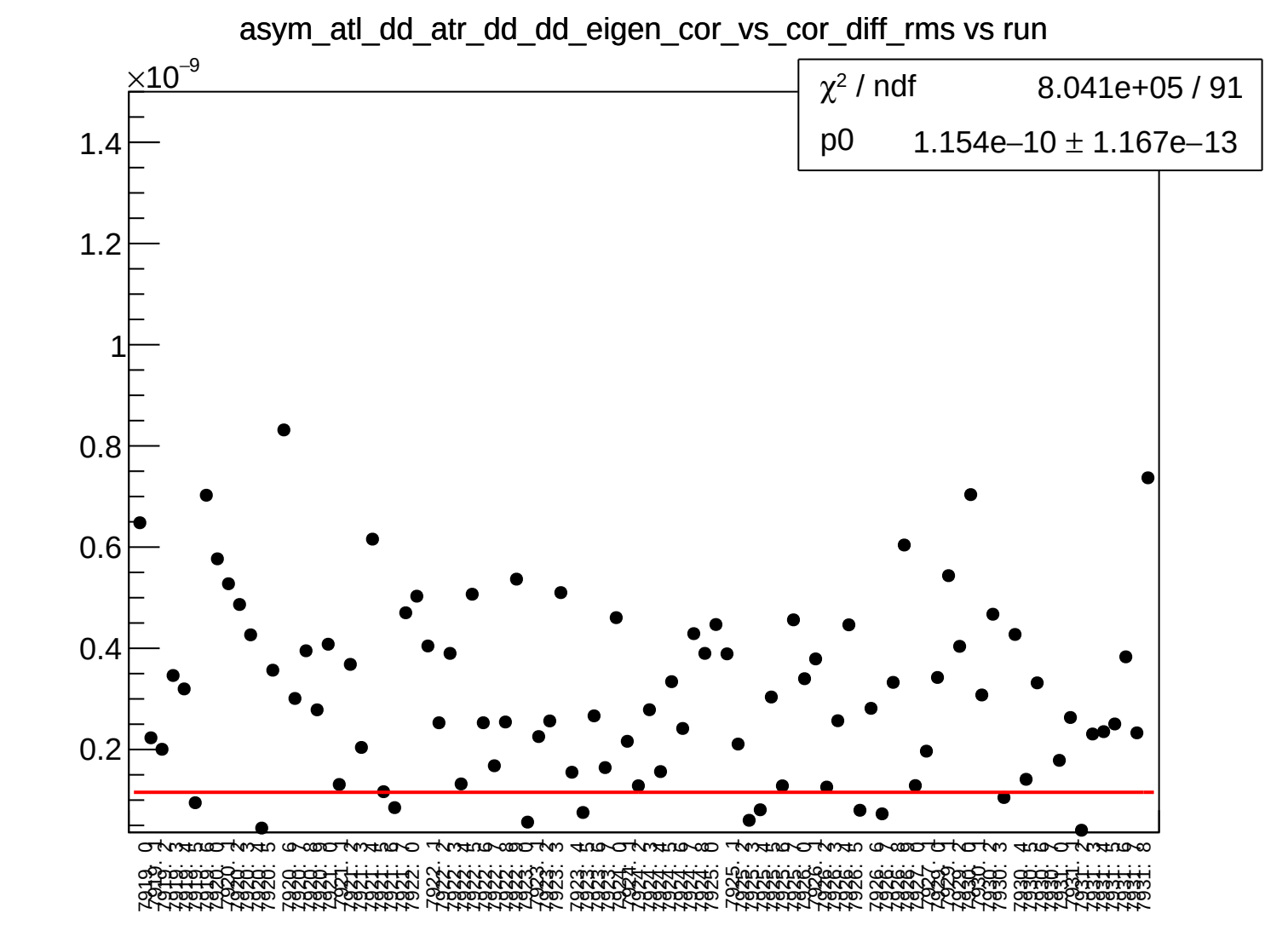

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.086e+05 / 91
p0 57.62 ± 0.04453
110
100
90
80
70
60
50
40
30

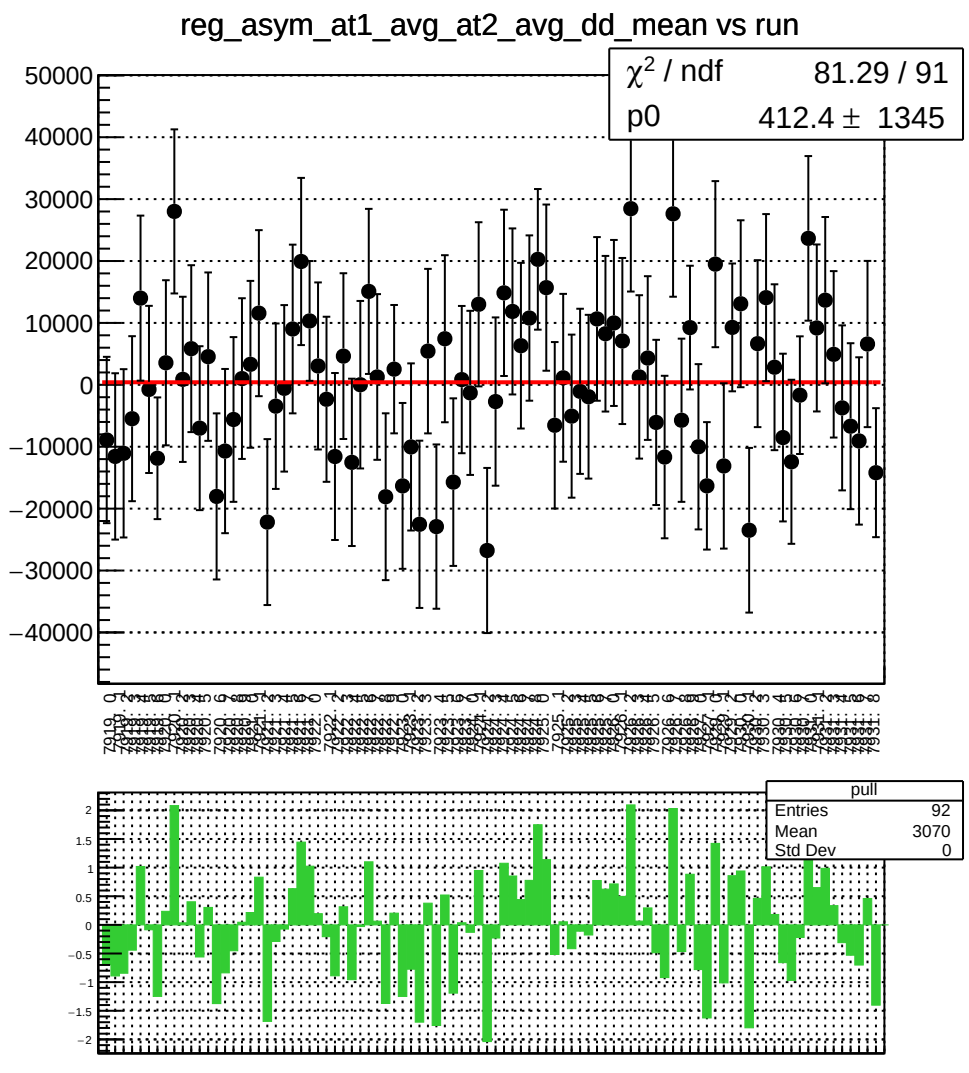

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.33 / 91
p0 0.005377 ± 0.06297
pull
Entries 92
Mean −537.1
Std Dev 0
pull1D
Entries 92
Mean 0.003826
Std Dev 0.9402

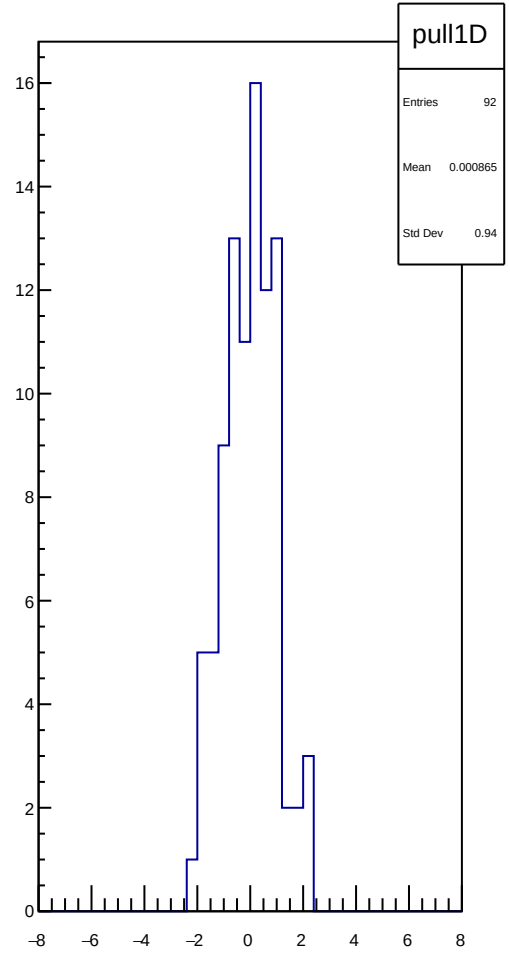

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.086e+05 / 91
p0 57.62 ± 0.04453
110
100
90
80
70
60
50
40
30

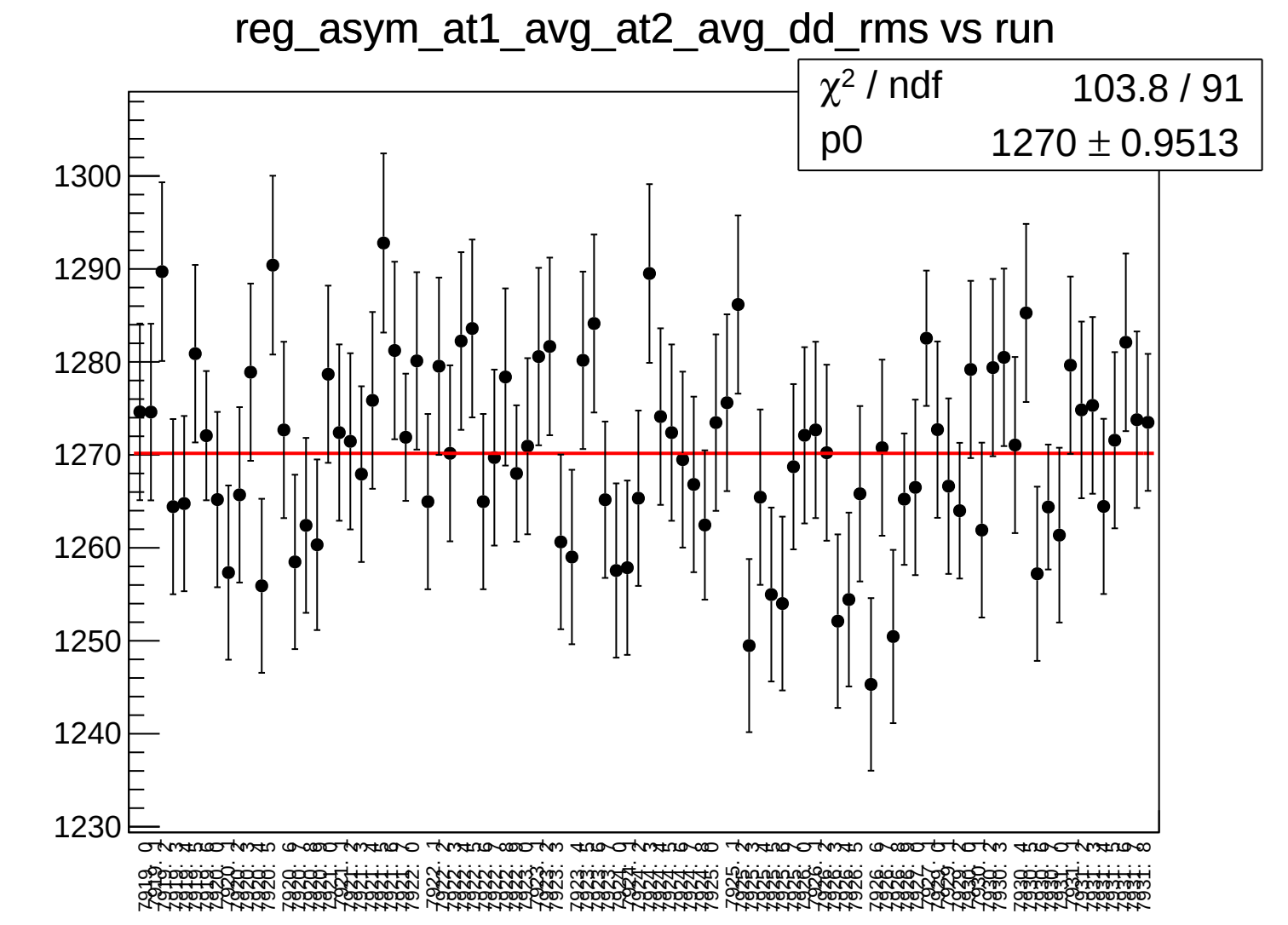

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.11 / 91
p0 −3.577e−14 ± 1.65e−13
pull
Entries 92
Mean 98.31
Std Dev 0

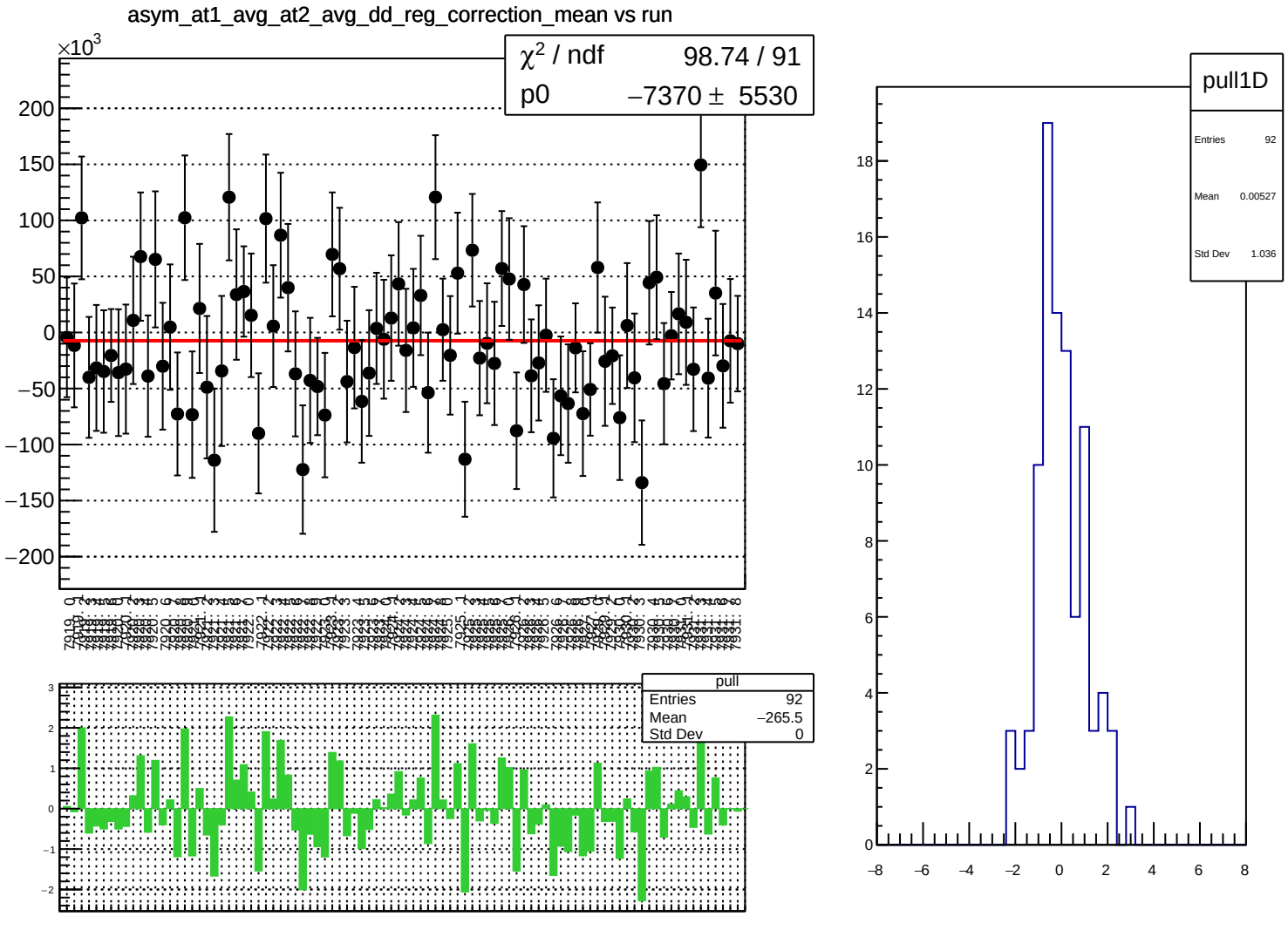

pull1D
Entries 92
Mean −0.0504
Std Dev 0.9318

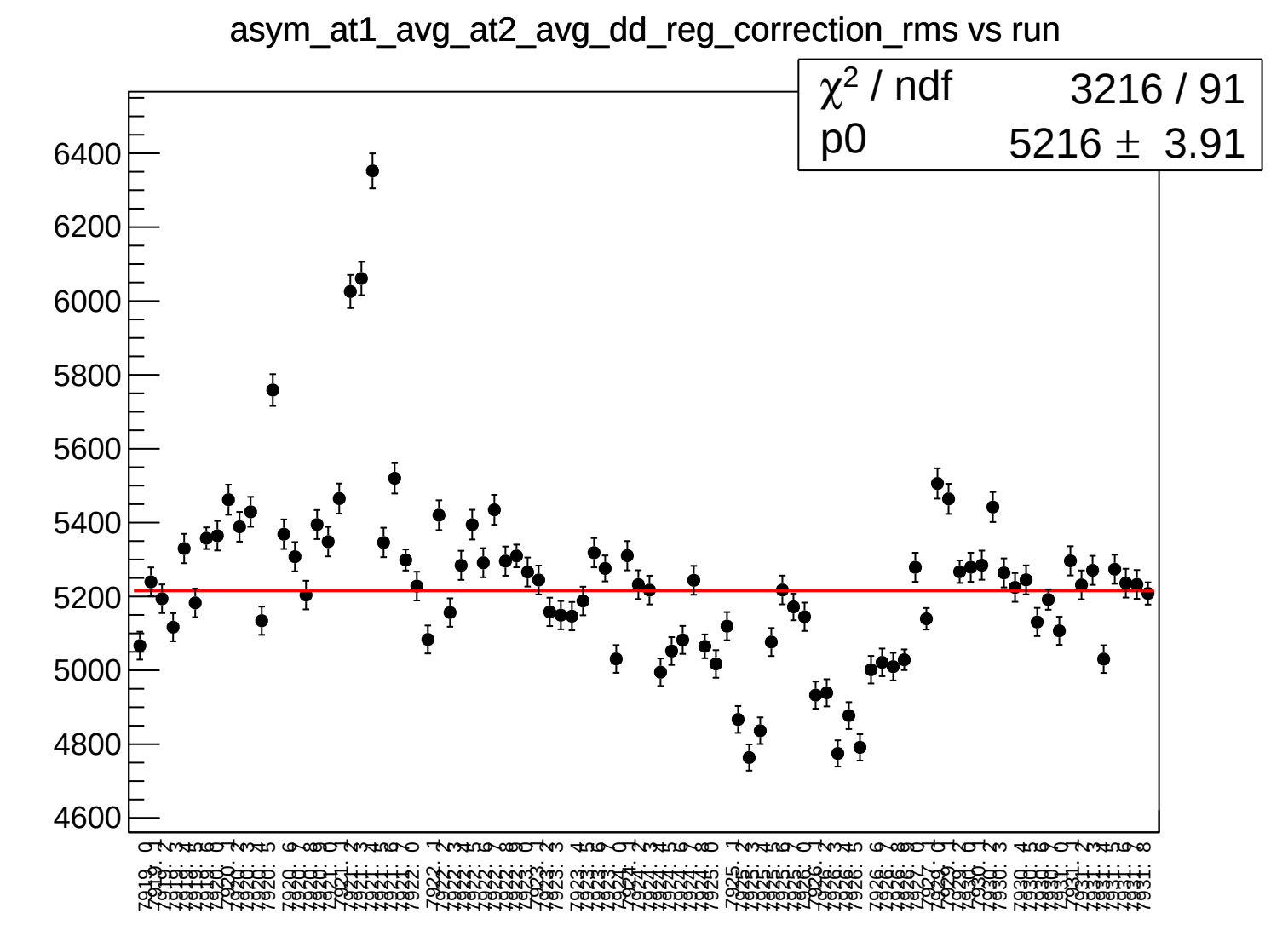

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.041e+05 / 91
p0 1.154e−10 ± 1.167e−13
1.4
1.2
1
0.8
0.6
0.4
0.2

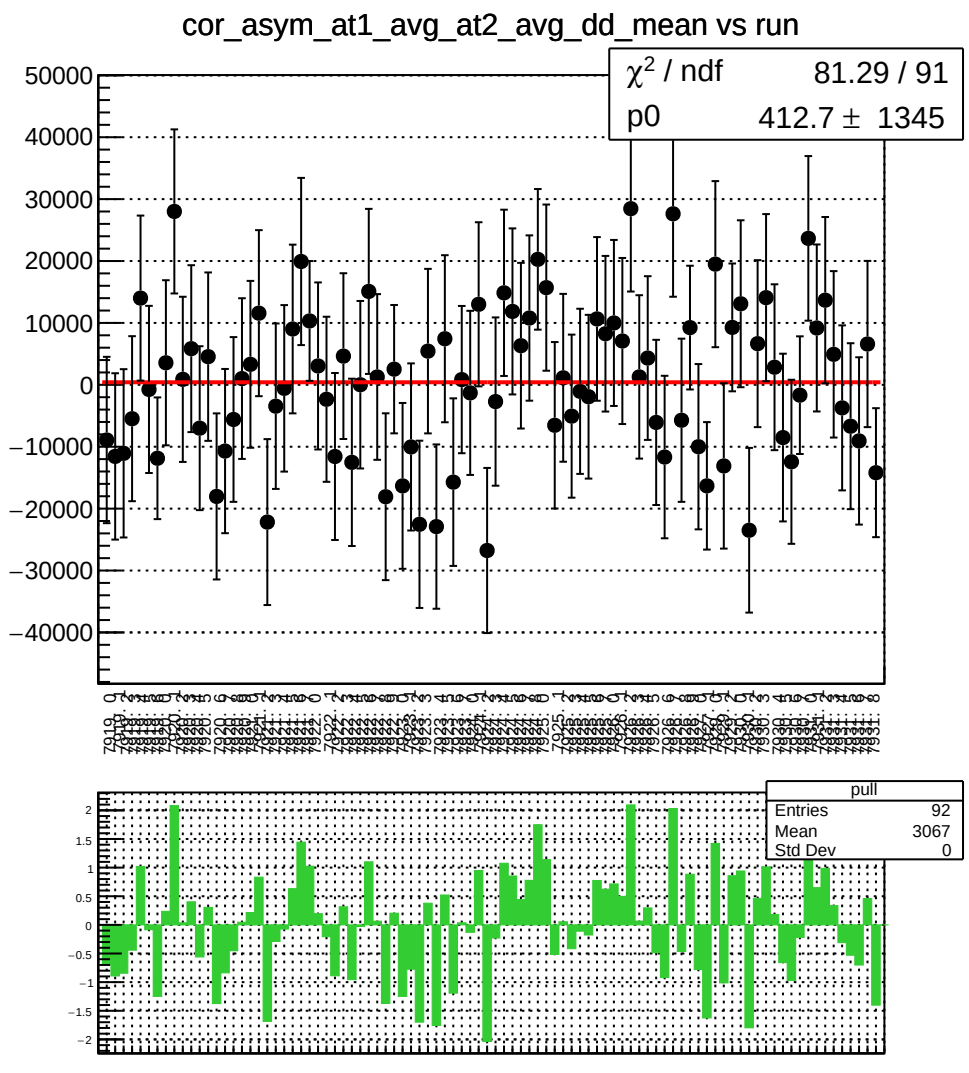

reg_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 81.29 / 91
p0 412.4 ± 1345
pull
Entries 92
Mean 3070
Std Dev 0

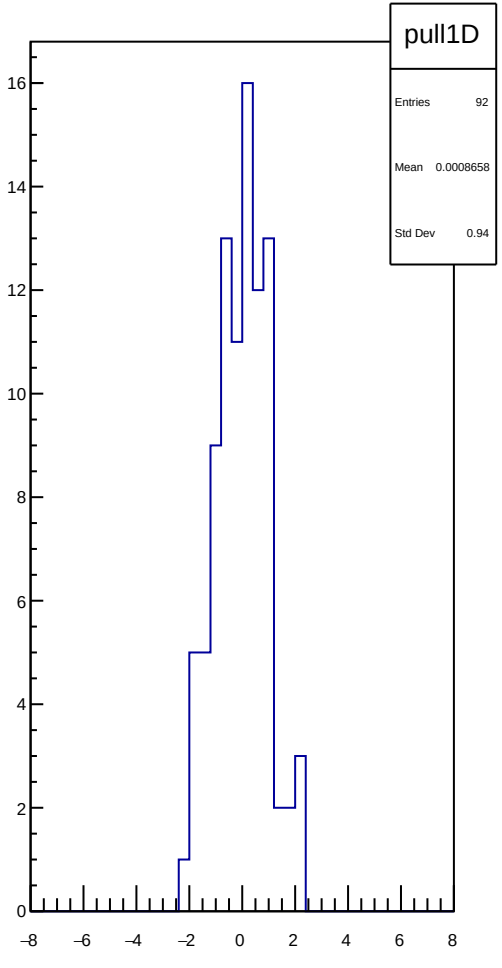

pull1D
Entries 92
Mean 0.000865
Std Dev 0.94

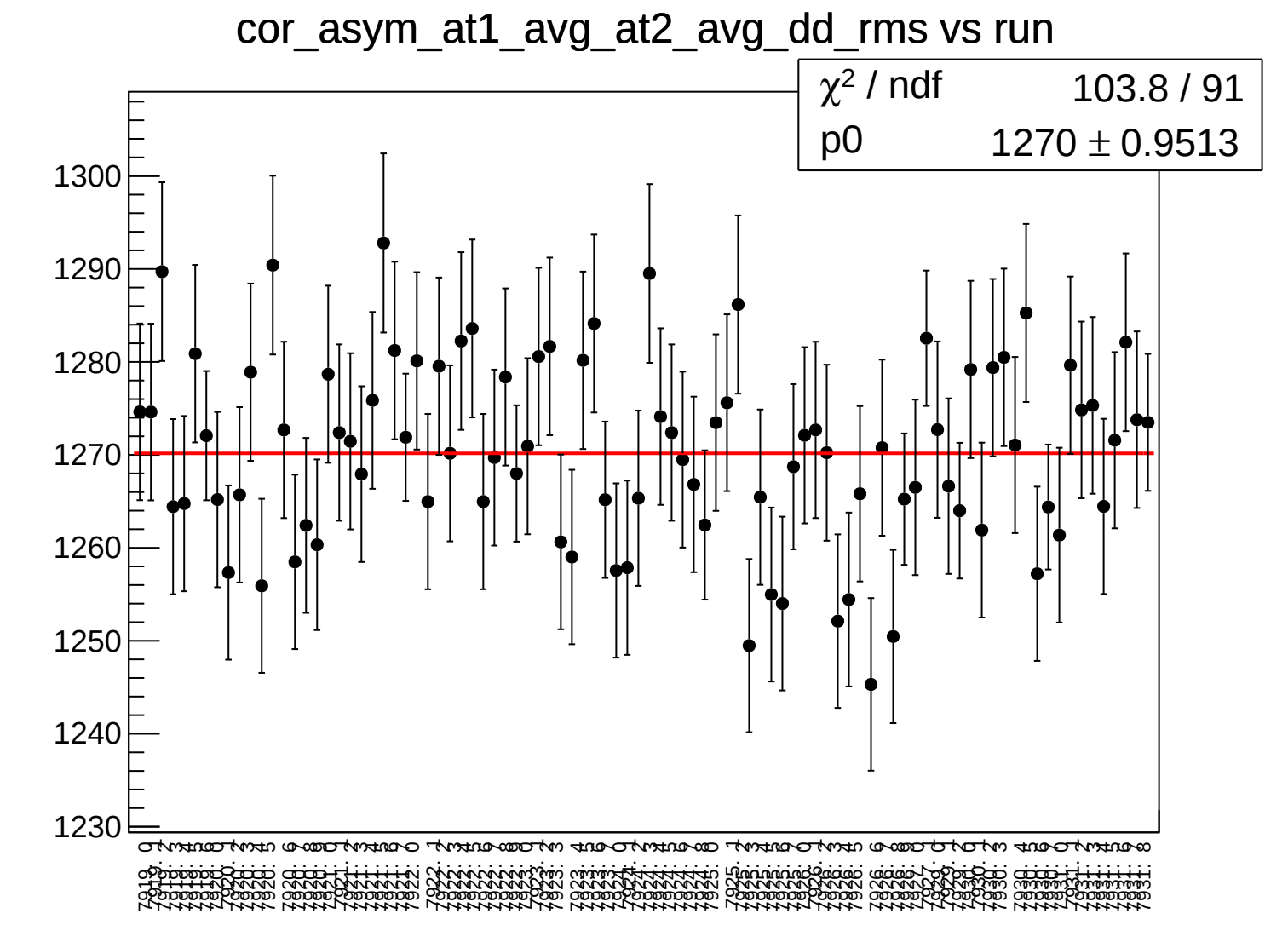

reg_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 103.8 / 91
p0 1270 ± 0.9513
1300
1290
1280
1270
1260
1250
1240
1230

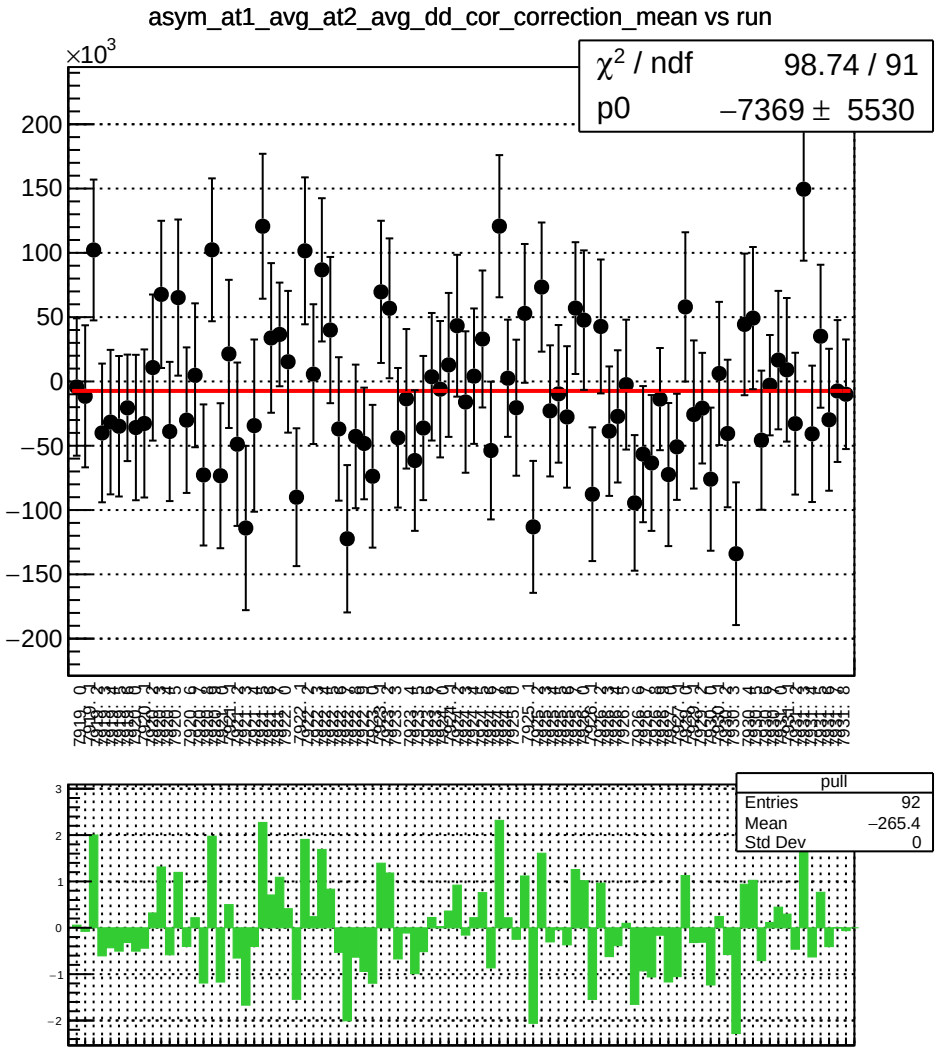

asym_at1_avg_at2_avg_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 98.74 / 91
p0 −7370 ± 5530
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 92
Mean −265.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.00527
Std Dev 1.036
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

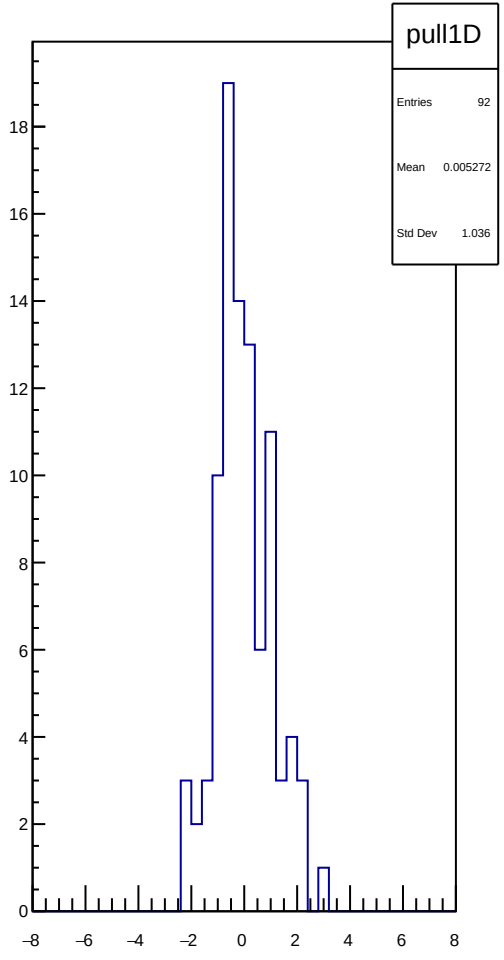

asym_at1_avg_at2_avg_dd_reg_correction_rms vs run
χ^2 / ndf 3216 / 91
p0 5216 ± 3.91
6400
6200
6000
5800
5600
5400
5200
5000
4800
4600

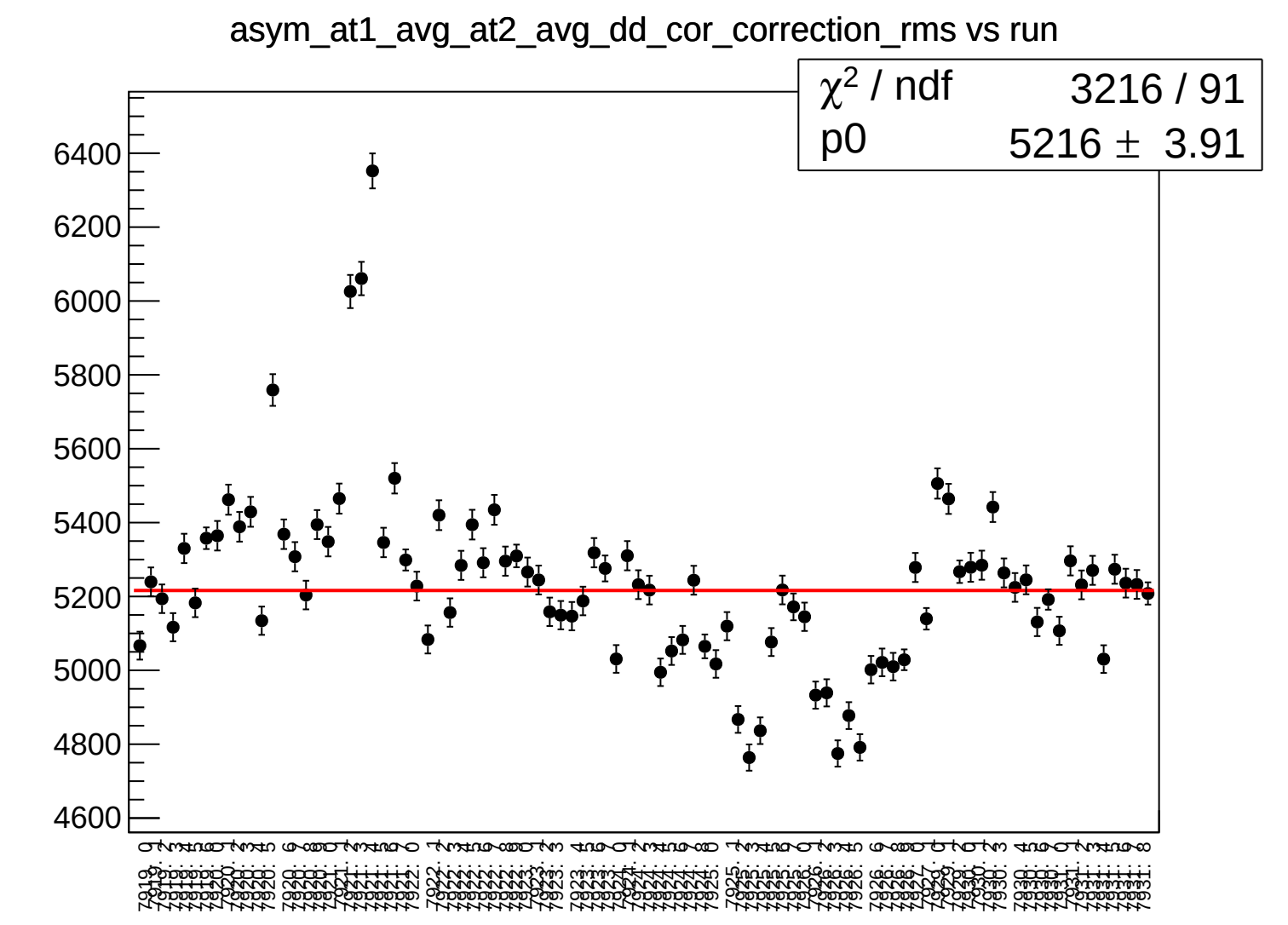

cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 81.29 / 91
p0 412.7 ± 1345
pull
Entries 92
Mean 3067
Std Dev 0

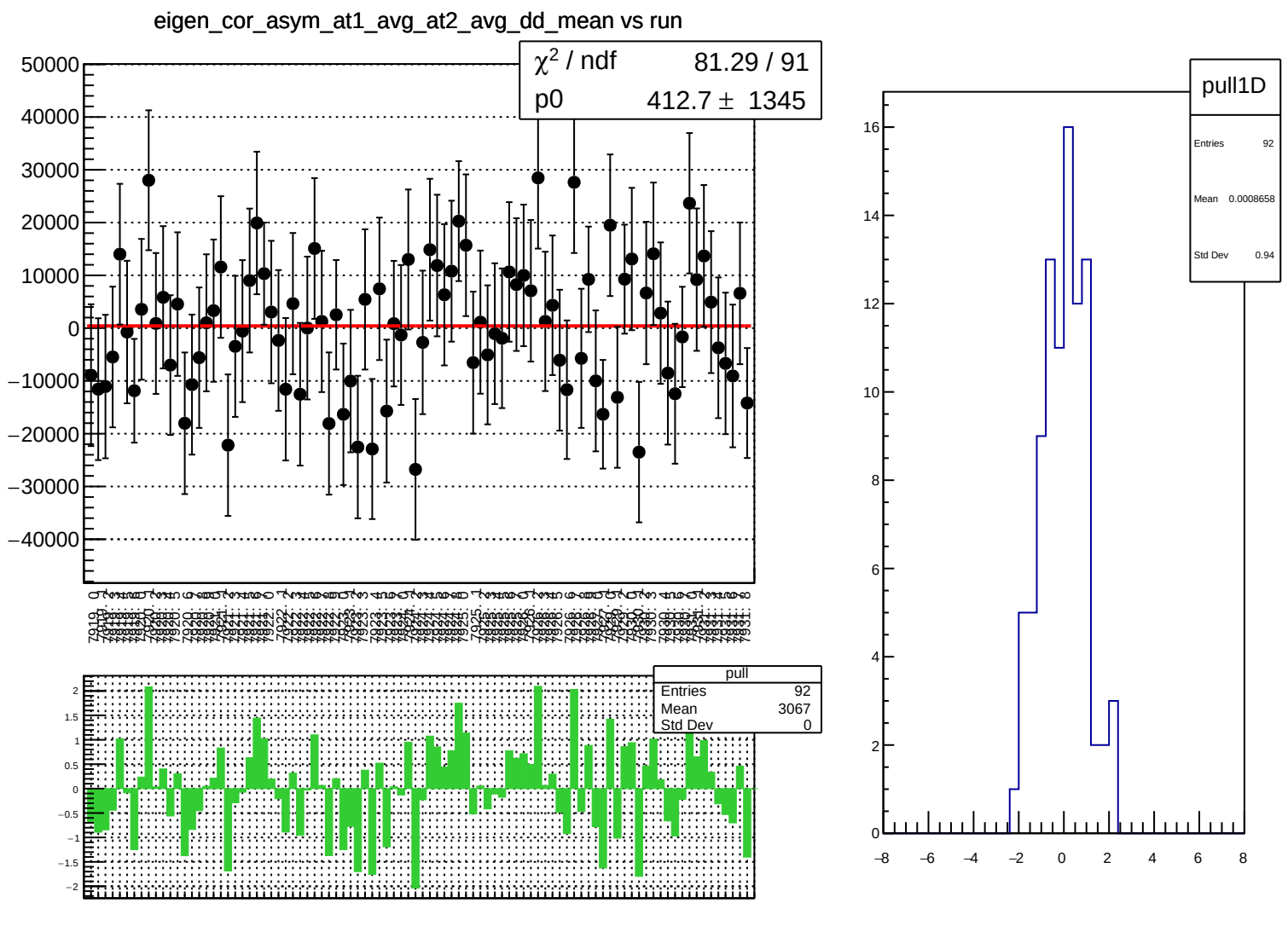

pull1D
Entries 92
Mean 0.0008658
Std Dev 0.94

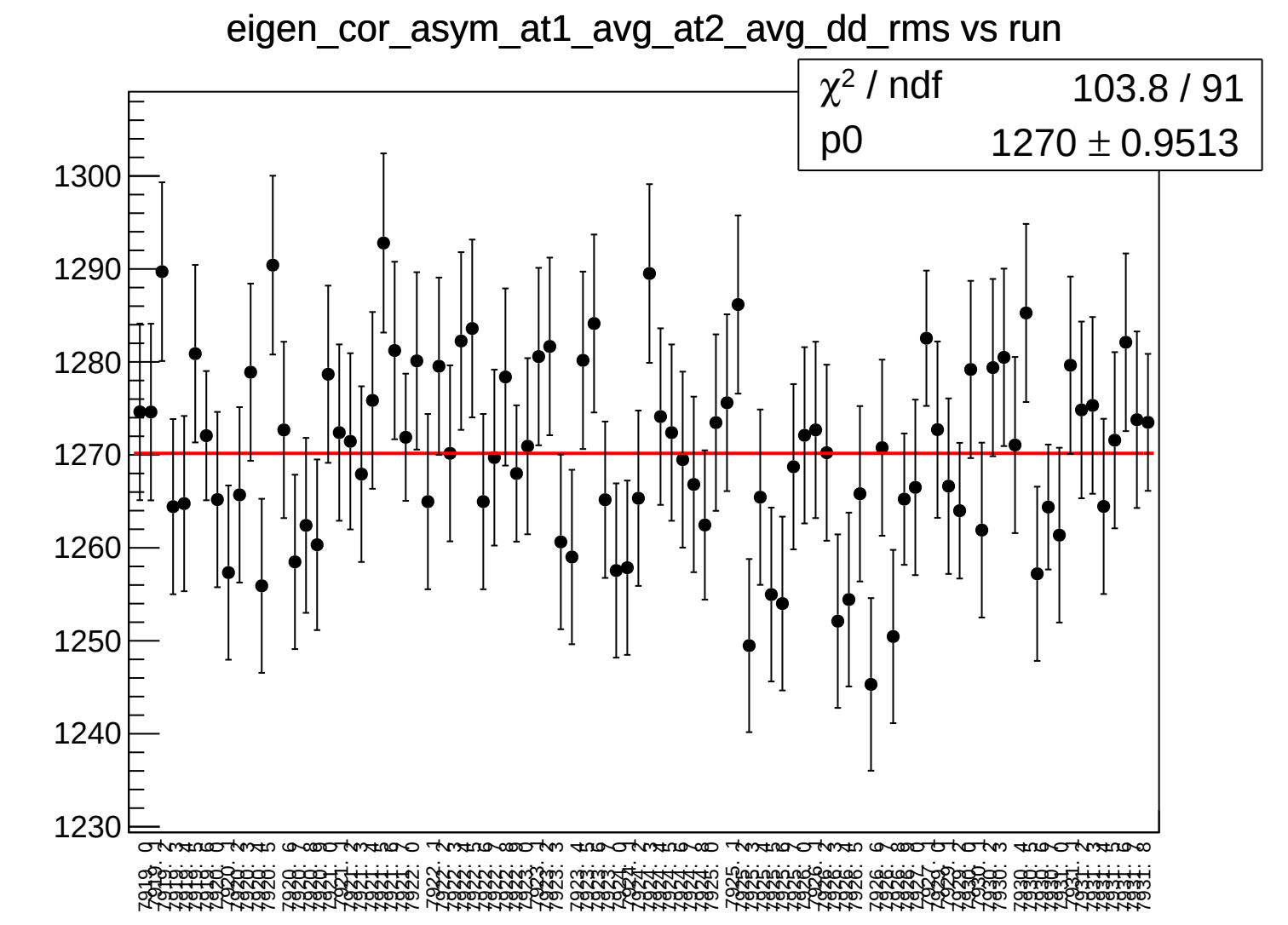

cor_asym_at1_avg_at2_avg_dd_rms vs run
χ^2 / ndf 103.8 / 91
p0 1270 ± 0.9513
1300
1290
1280
1270
1260
1250
1240
1230

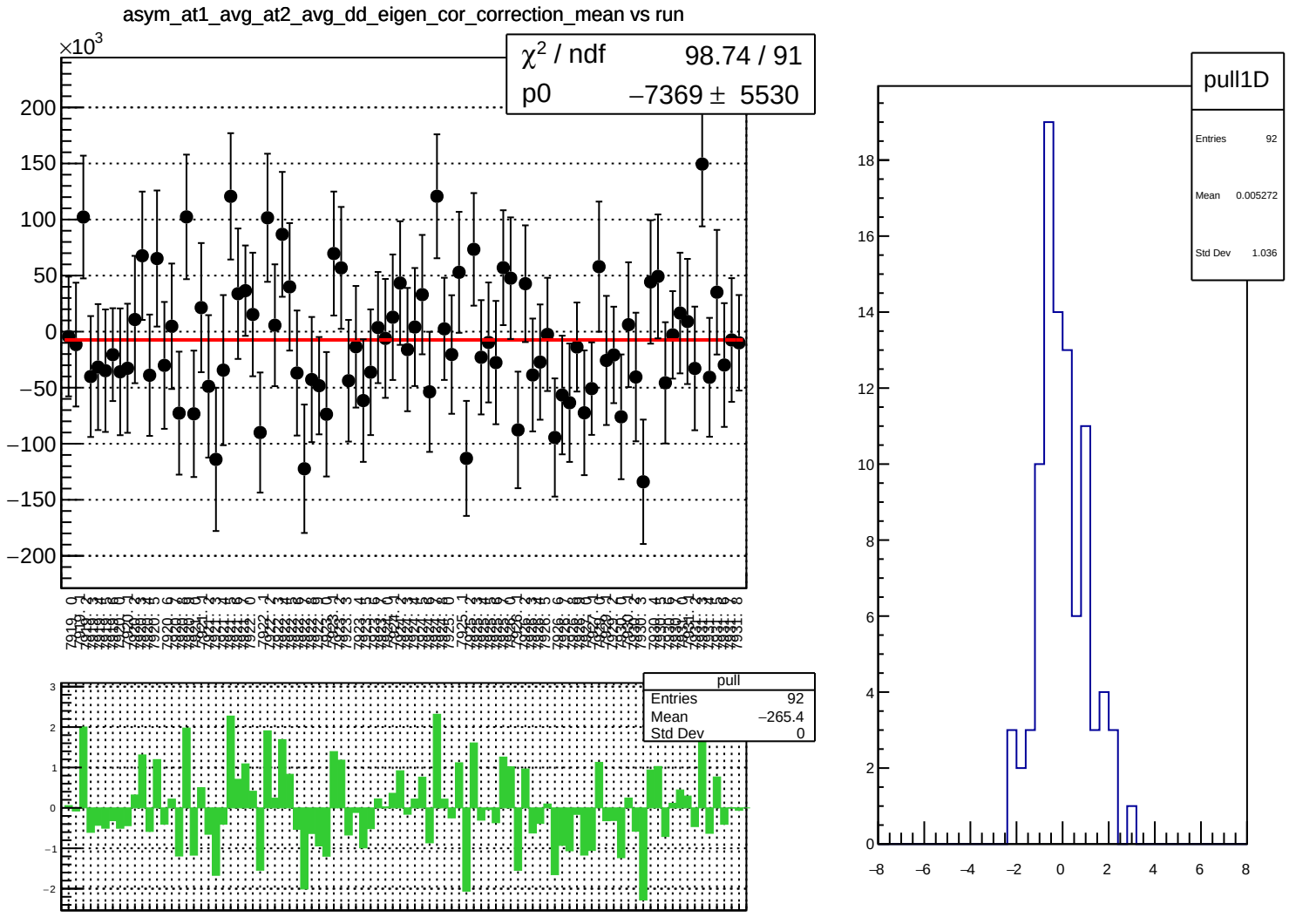

asym_at1_avg_at2_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 98.74 / 91
p0 −7369 ± 5530
pull
Entries 92
Mean −265.4
Std Dev 0

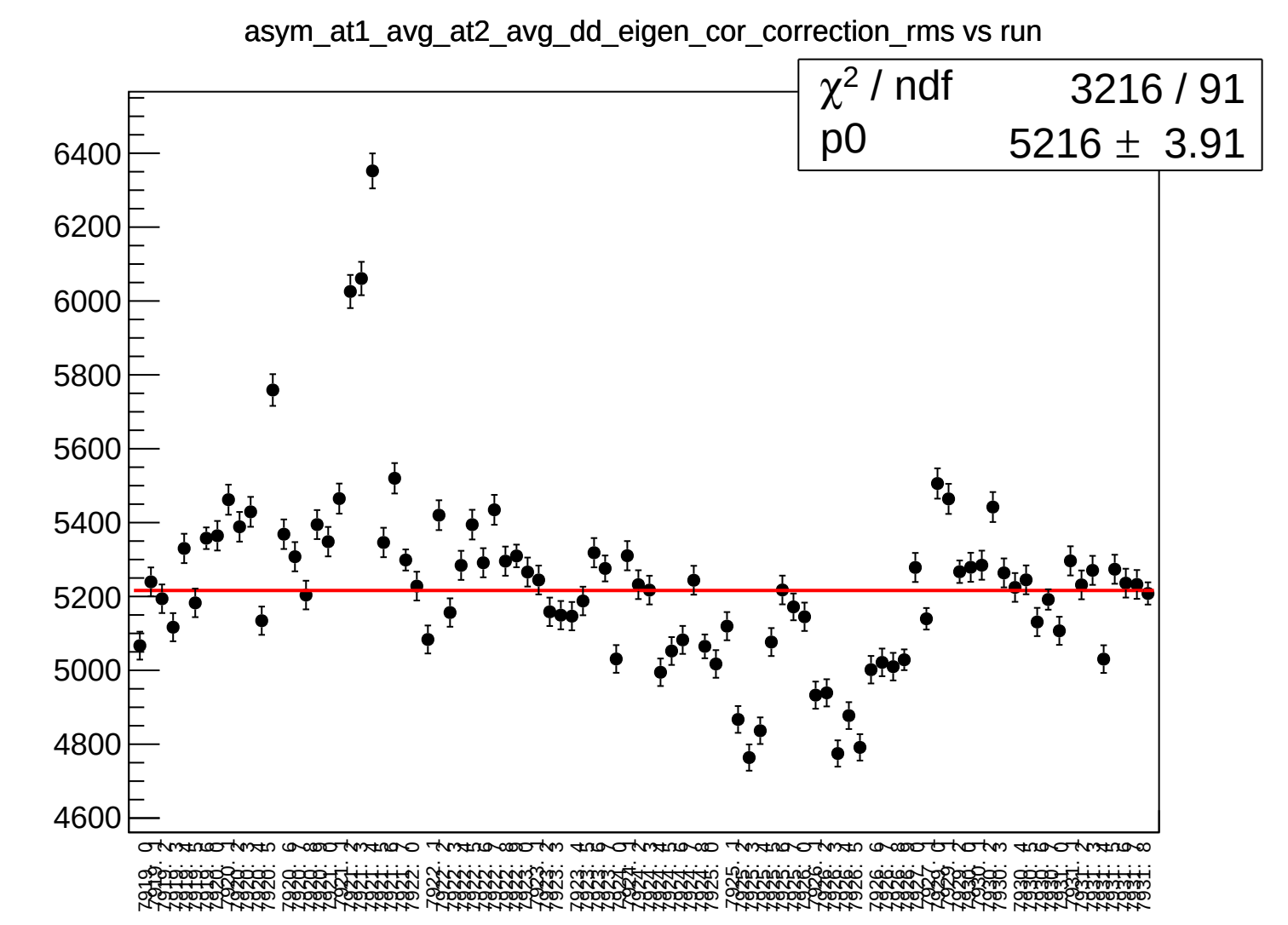

pull1D
Entries 92
Mean 0.005272
Std Dev 1.036

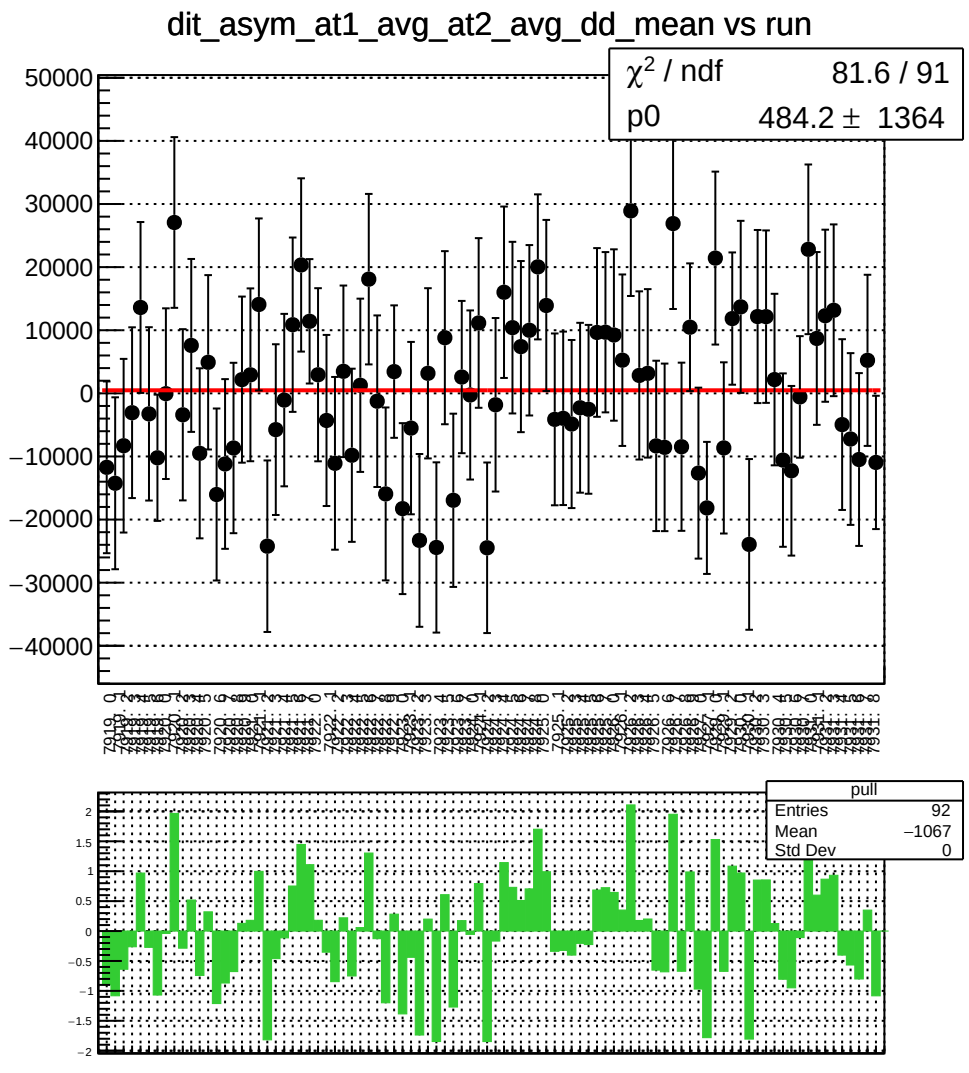

asym_at1_avg_at2_avg_dd_cor_correction_rms vs run
χ² / ndf 3216 / 91
p0 5216 ± 3.91
6400
6200
6000
5800
5600
5400
5200
5000
4800
4600

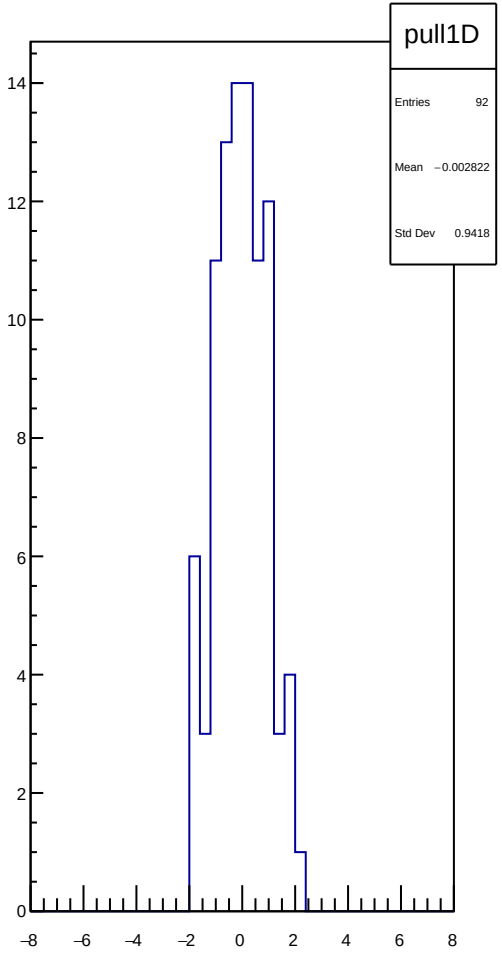

eigen_cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 81.29 / 91
p0 412.7 ± 1345
pull
Entries 92
Mean 3067
Std Dev 0
pull1D
Entries 92
Mean 0.0008658
Std Dev 0.94

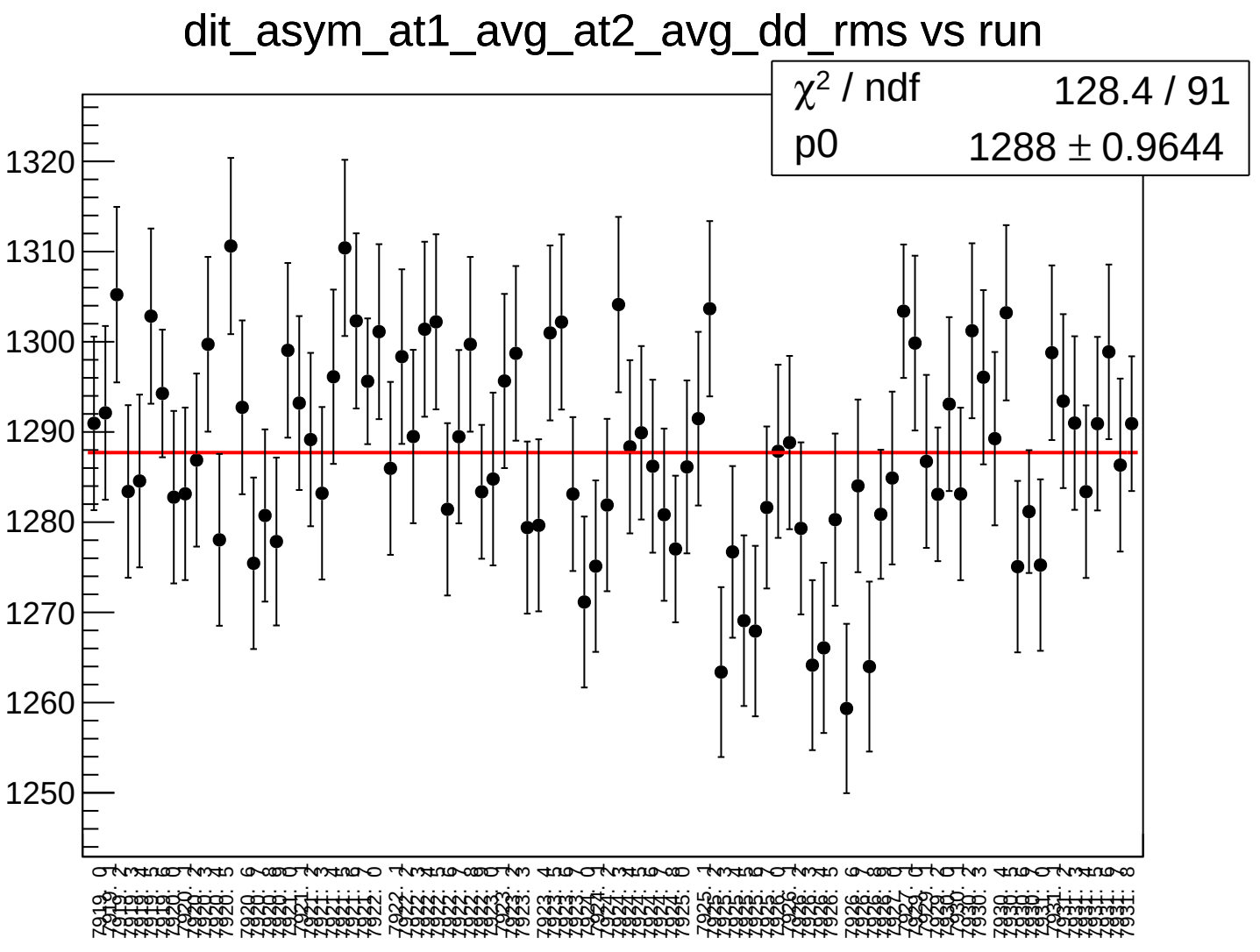

eigen_cor_asym_at1_avg_at2_avg_dd_rms vs run
χ^2 / ndf 103.8 / 91
p0 1270 ± 0.9513
1300
1290
1280
1270
1260
1250
1240
1230

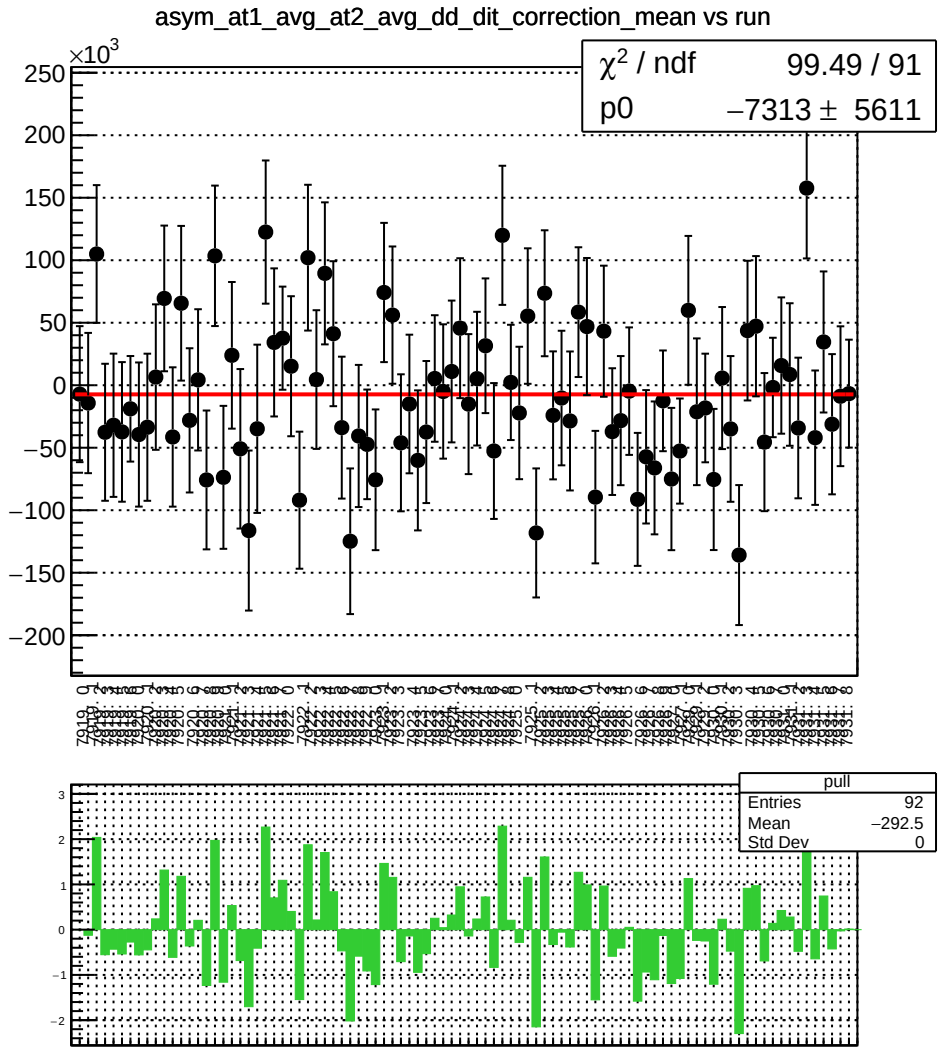

asym_at1_avg_at2_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 98.74 / 91
p0 −7369 ± 5530
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 92
Mean −265.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.005272
Std Dev 1.036
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

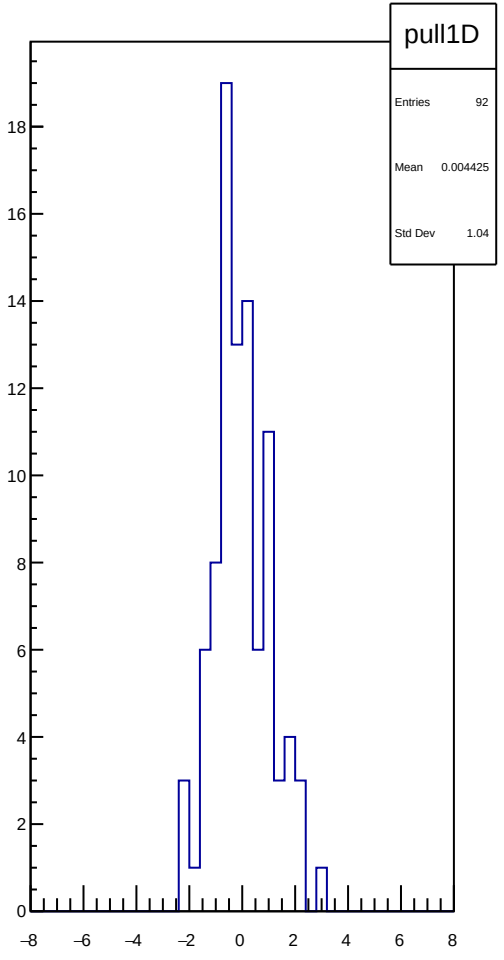

asym_at1_avg_at2_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 3216 / 91
p0 5216 ± 3.91
6400
6200
6000
5800
5600
5400
5200
5000
4800
4600

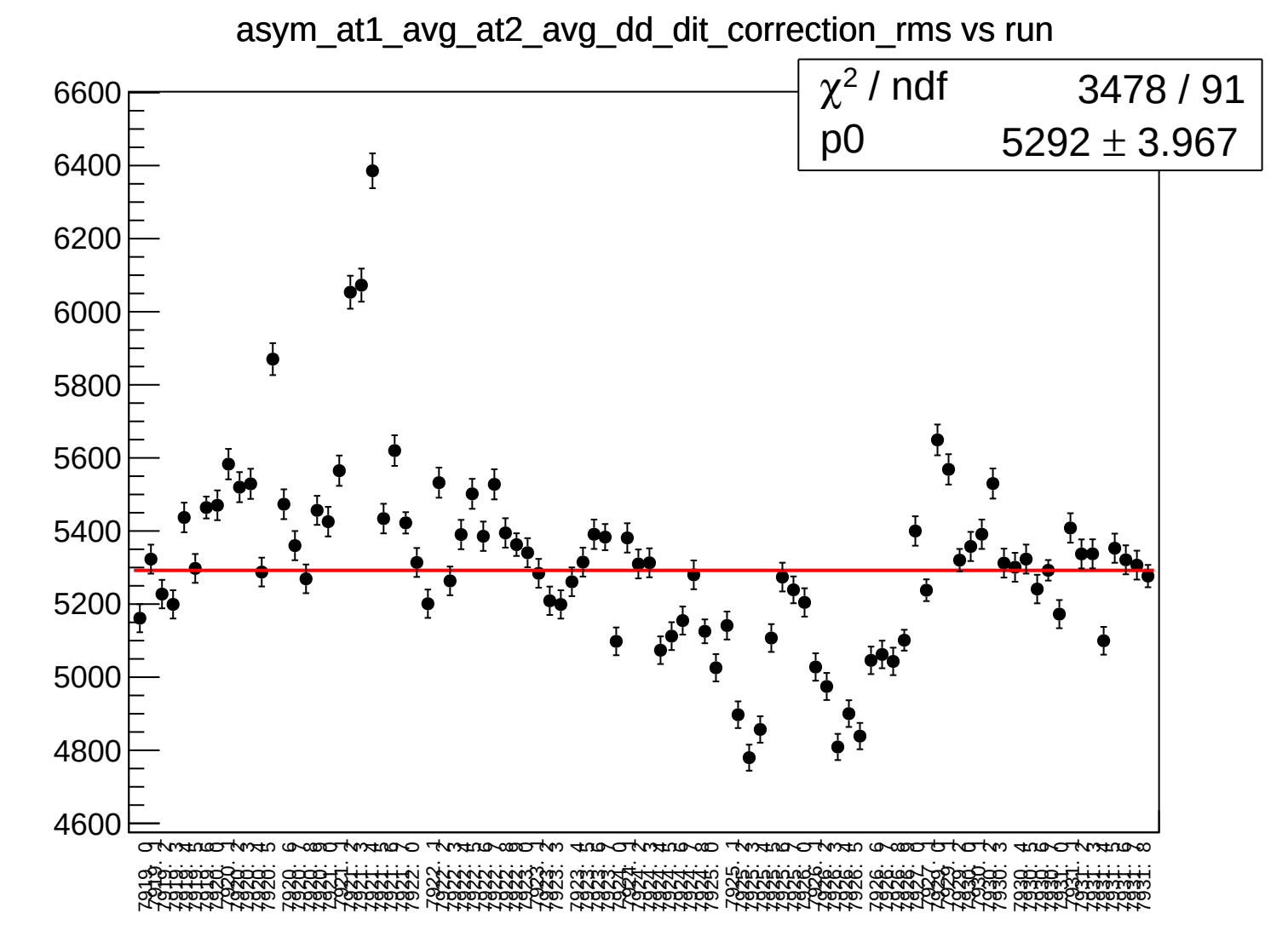

dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 81.6 / 91
p0 484.2 ± 1364
pull
Entries 92
Mean −1067
Std Dev 0

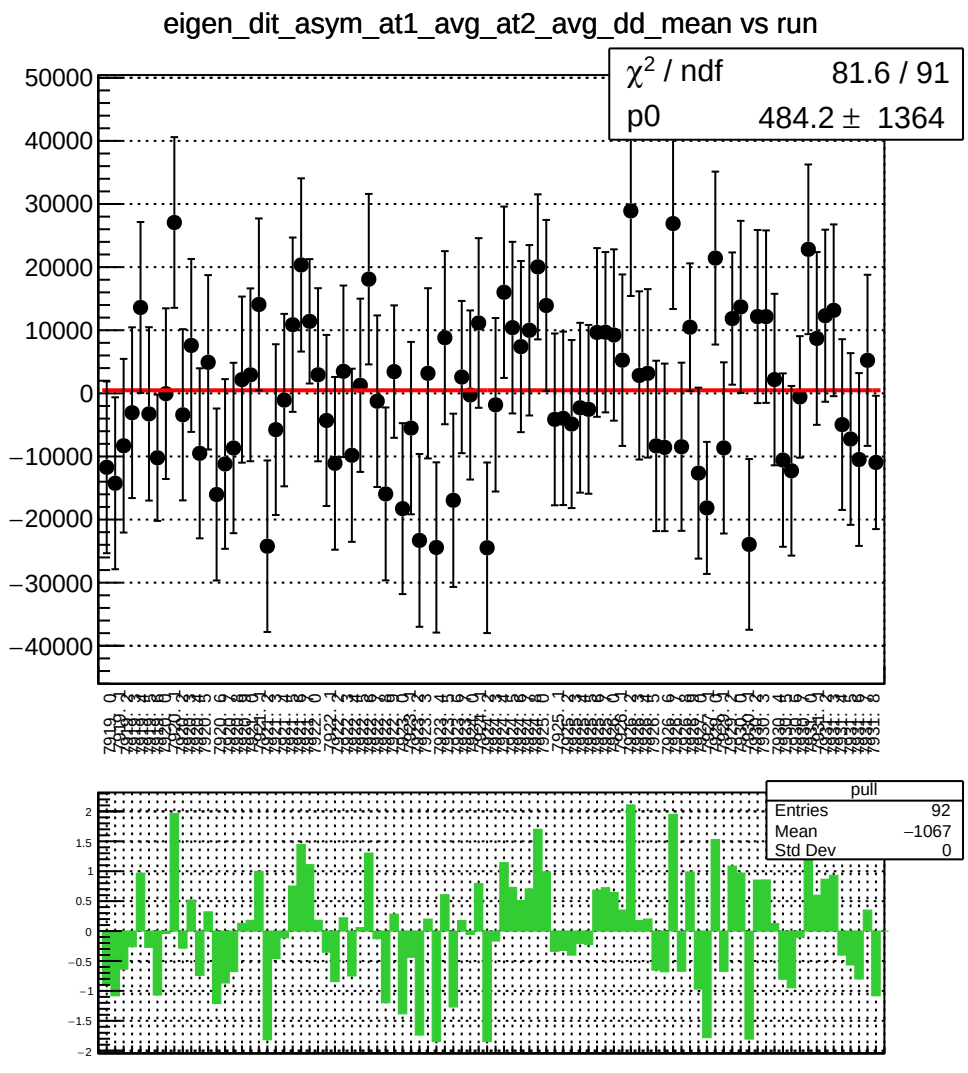

pull1D
Entries 92
Mean −0.002822
Std Dev 0.9418

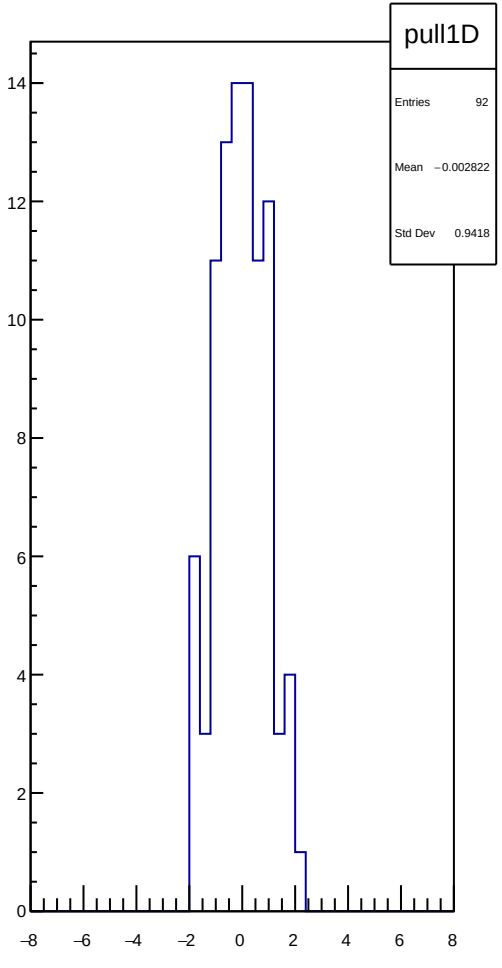

dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 128.4 / 91
p0 1288 ± 0.9644
1320
1310
1300
1290
1280
1270
1260
1250

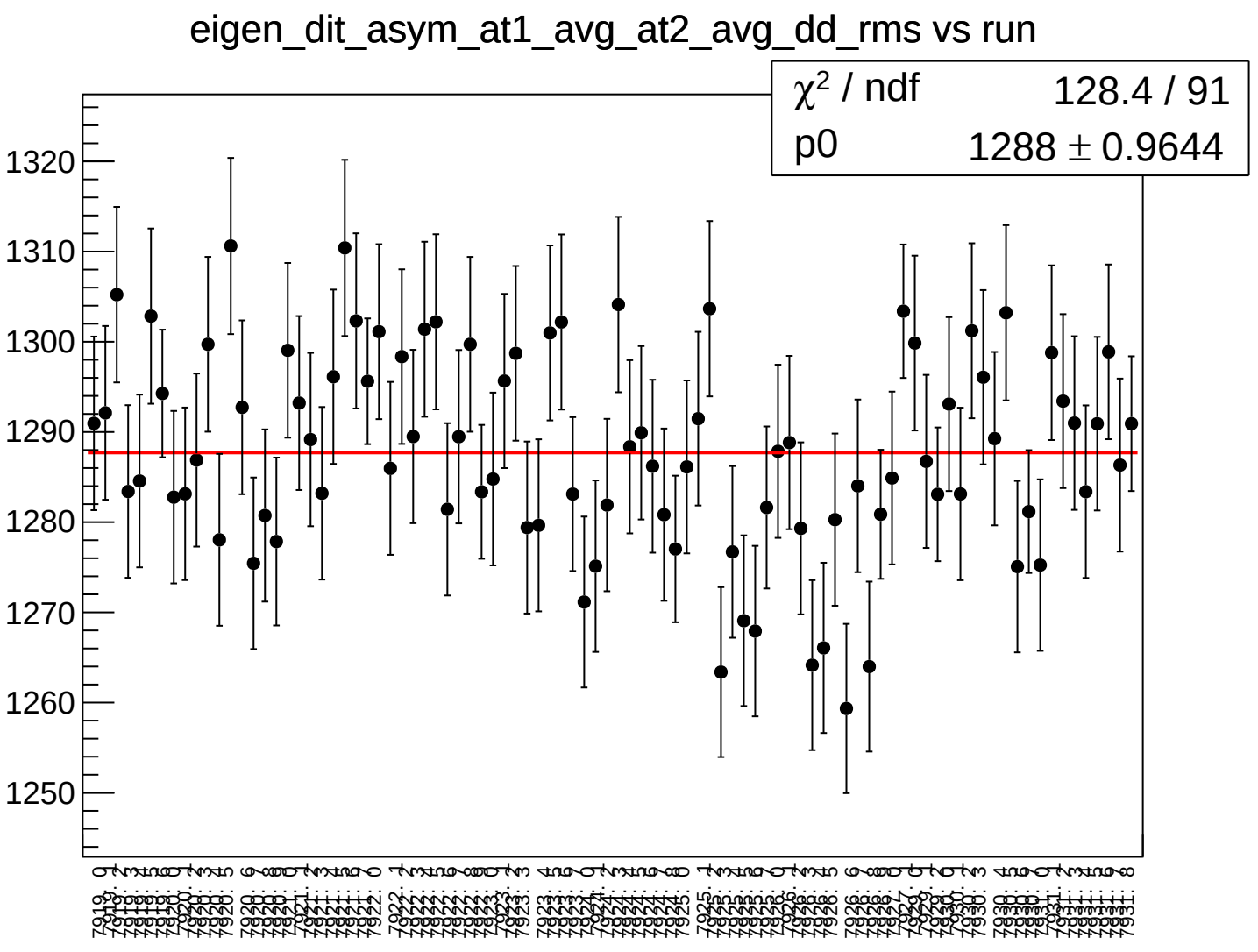

asym_at1_avg_at2_avg_dd_dit_correction_mean vs run
χ^2 / ndf 99.49 / 91
p0 −7313 ± 5611
pull
Entries 92
Mean −292.5
Std Dev 0

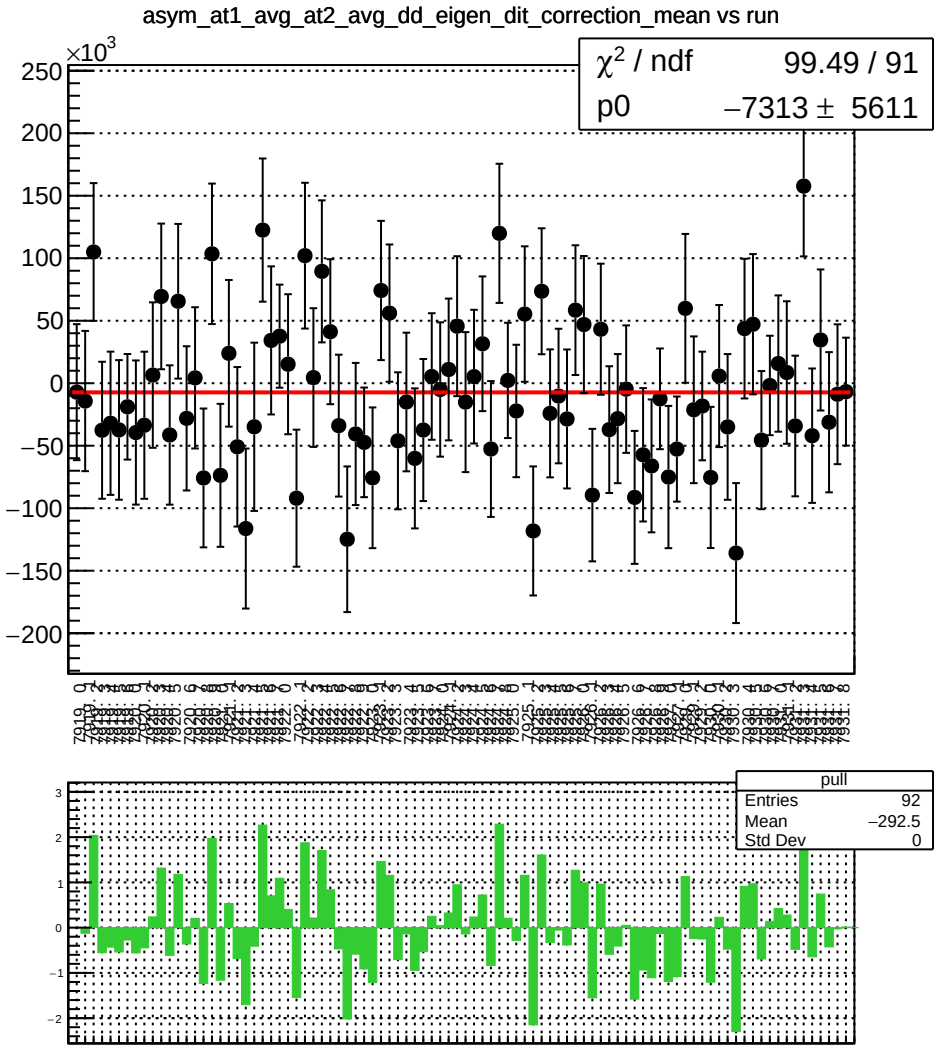

pull1D
Entries 92
Mean 0.004425
Std Dev 1.04

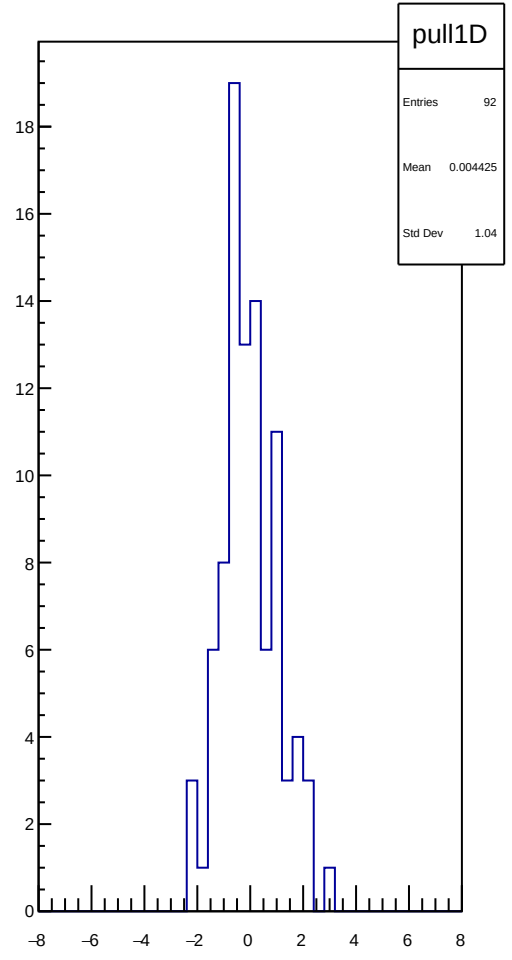

asym_at1_avg_at2_avg_dd_dit_correction_rms vs run
χ² / ndf 3478 / 91
p0 5292 ± 3.967
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800
4600

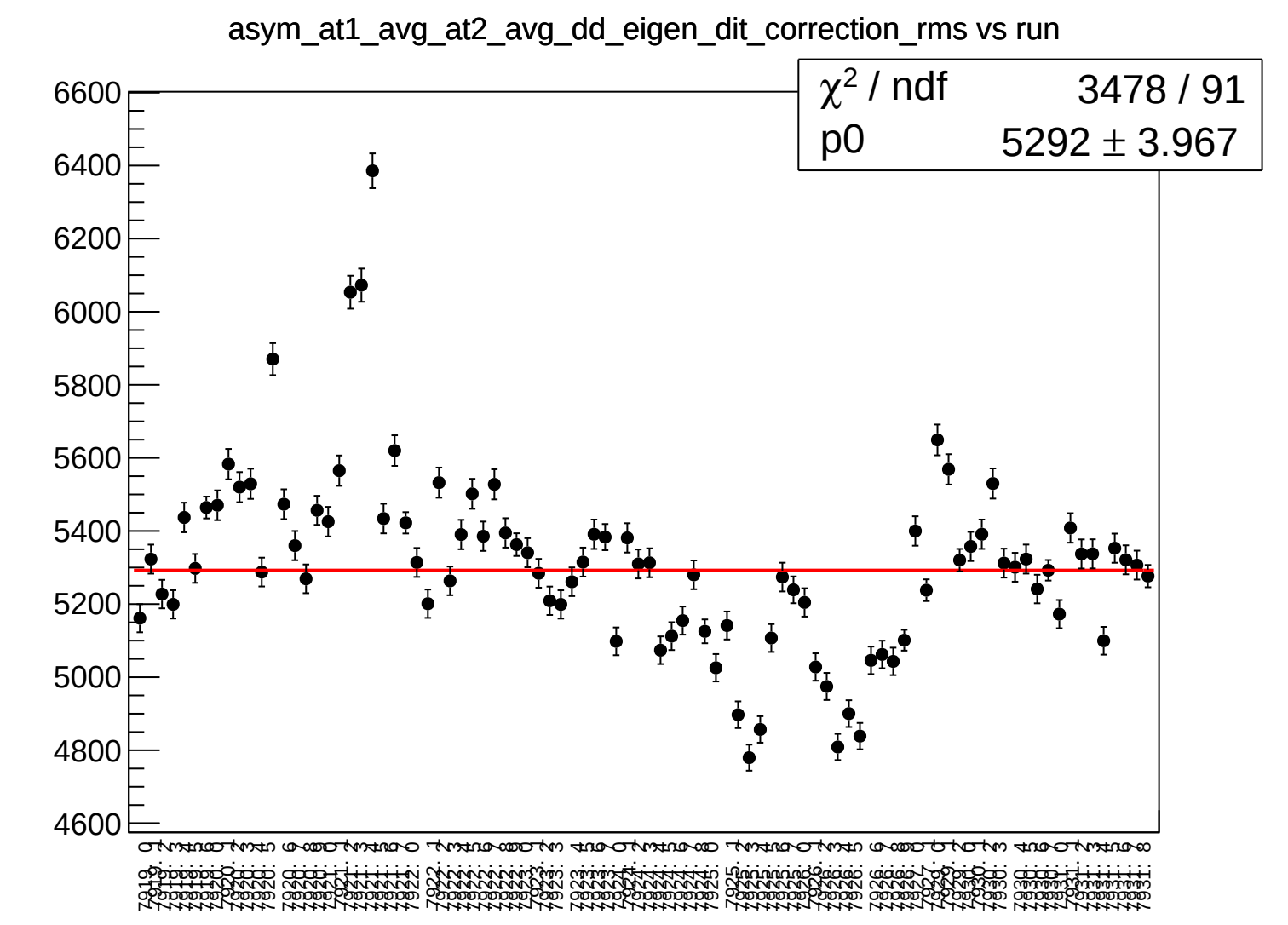

eigen_dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 81.6 / 91
p0 484.2 ± 1364
pull
Entries 92
Mean −1067
Std Dev 0

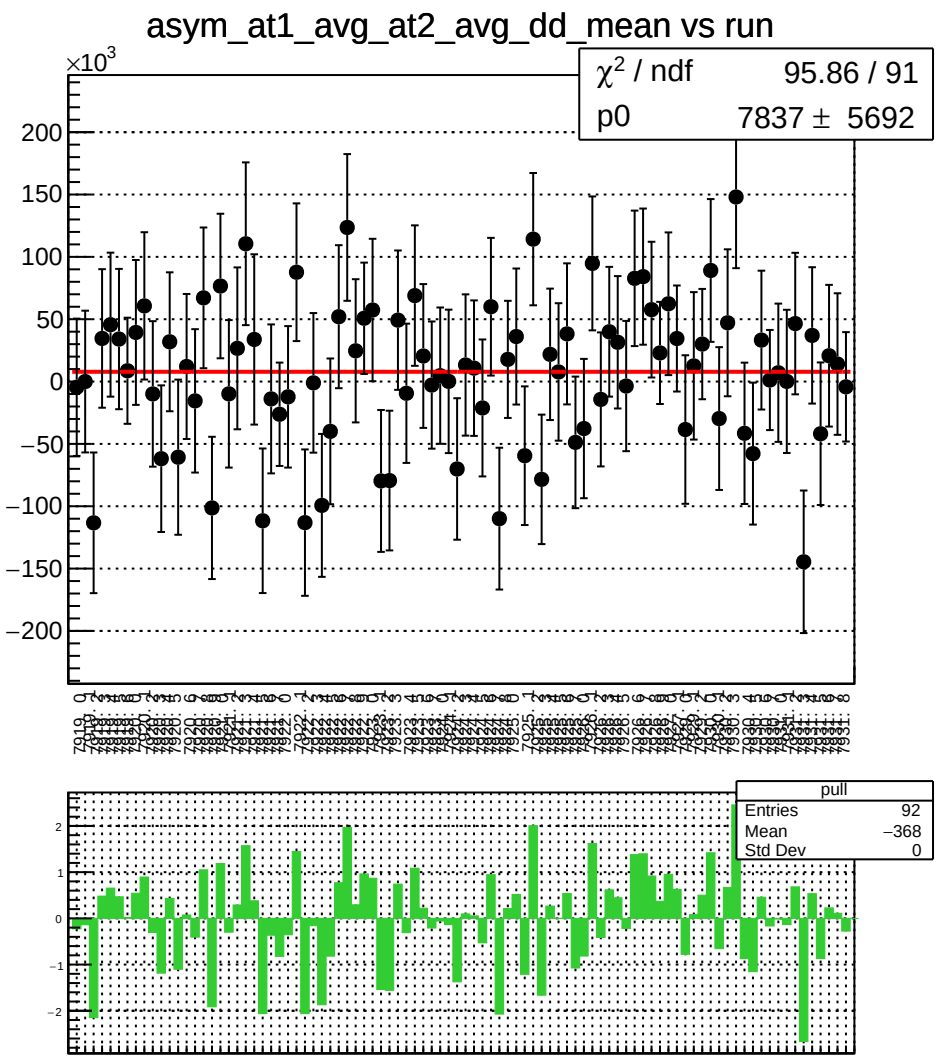

pull1D
Entries 92
Mean −0.002822
Std Dev 0.9418

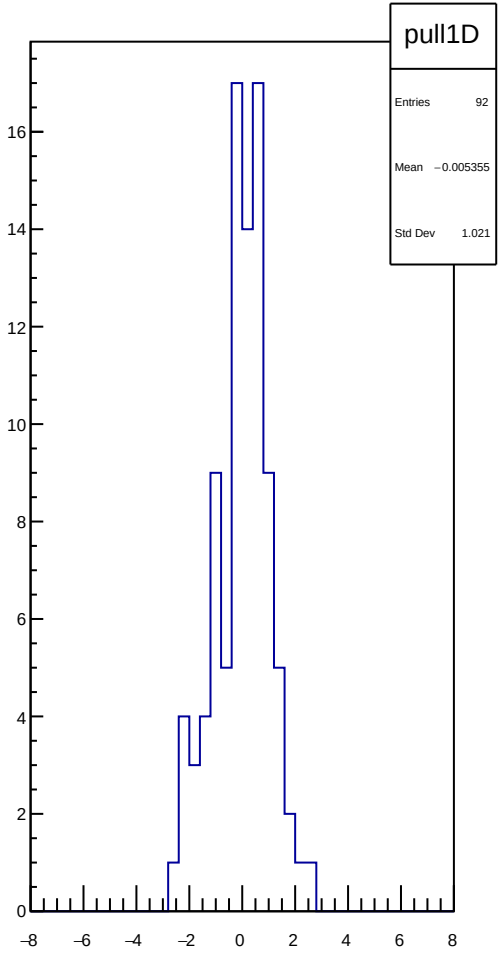

eigen_dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 128.4 / 91
p0 1288 ± 0.9644
1320
1310
1300
1290
1280
1270
1260
1250

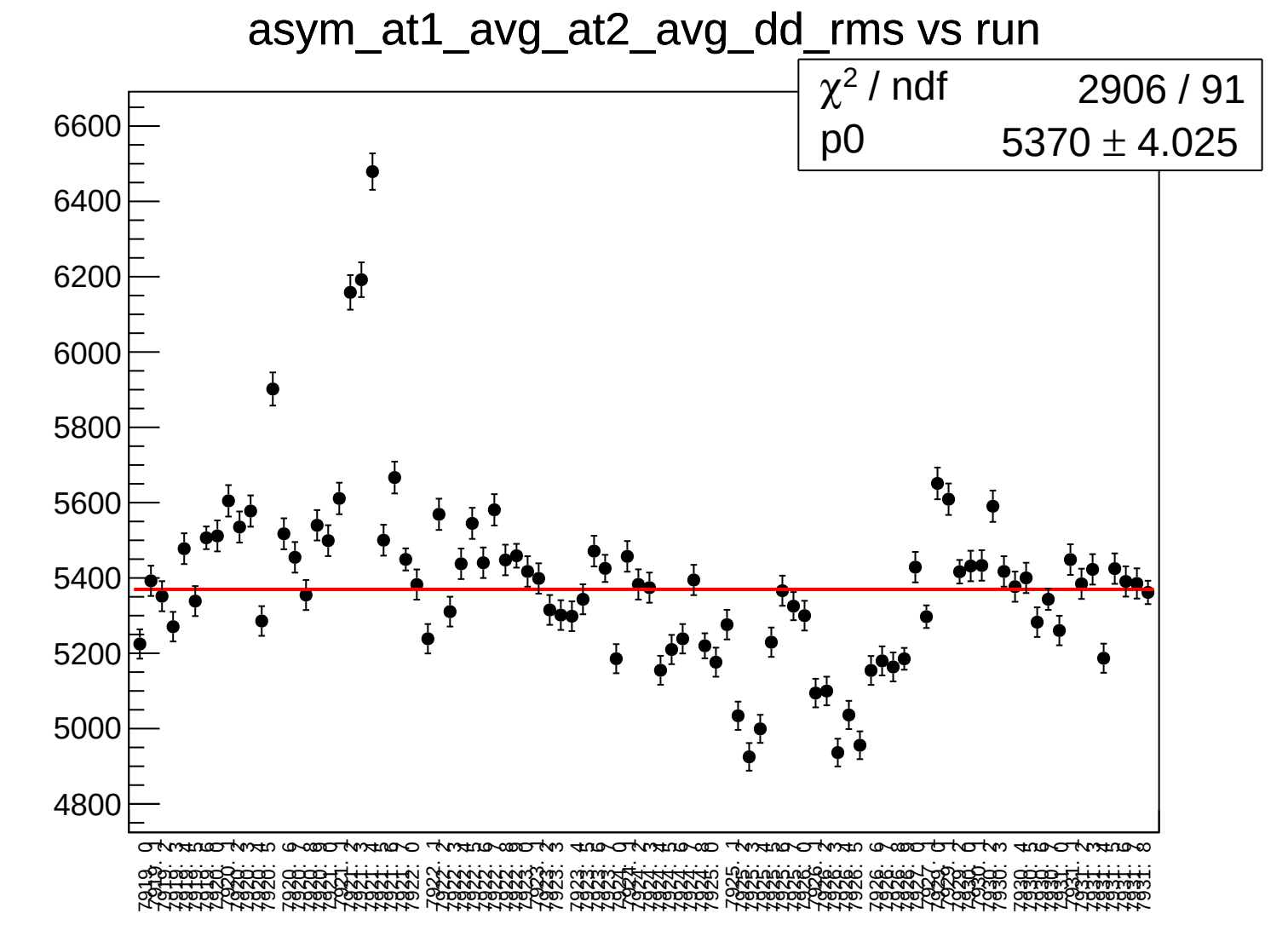

asym_at1_avg_at2_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 99.49 / 91
p0 −7313 ± 5611
pull
Entries 92
Mean −292.5
Std Dev 0

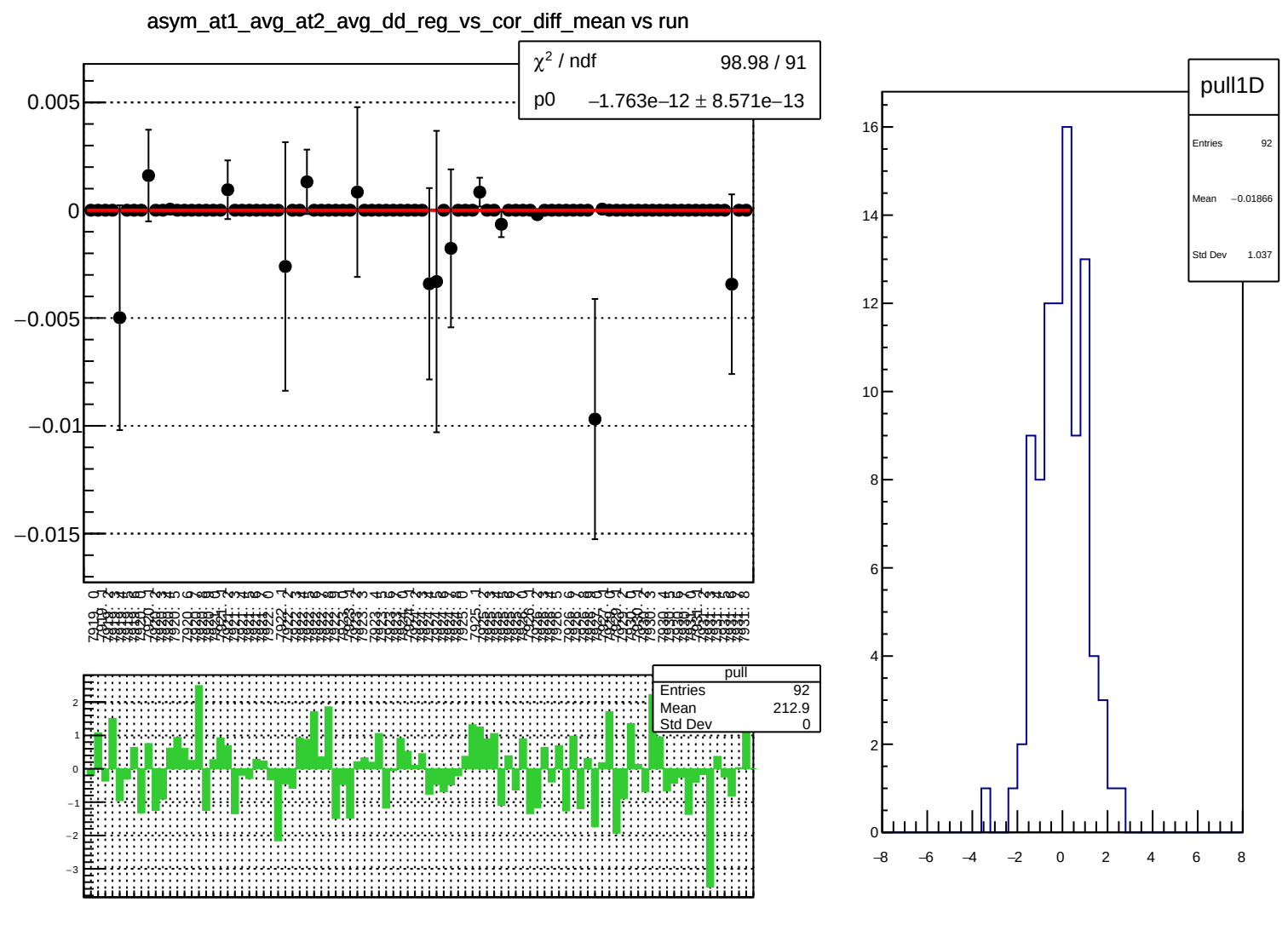

pull1D
Entries 92
Mean 0.004425
Std Dev 1.04

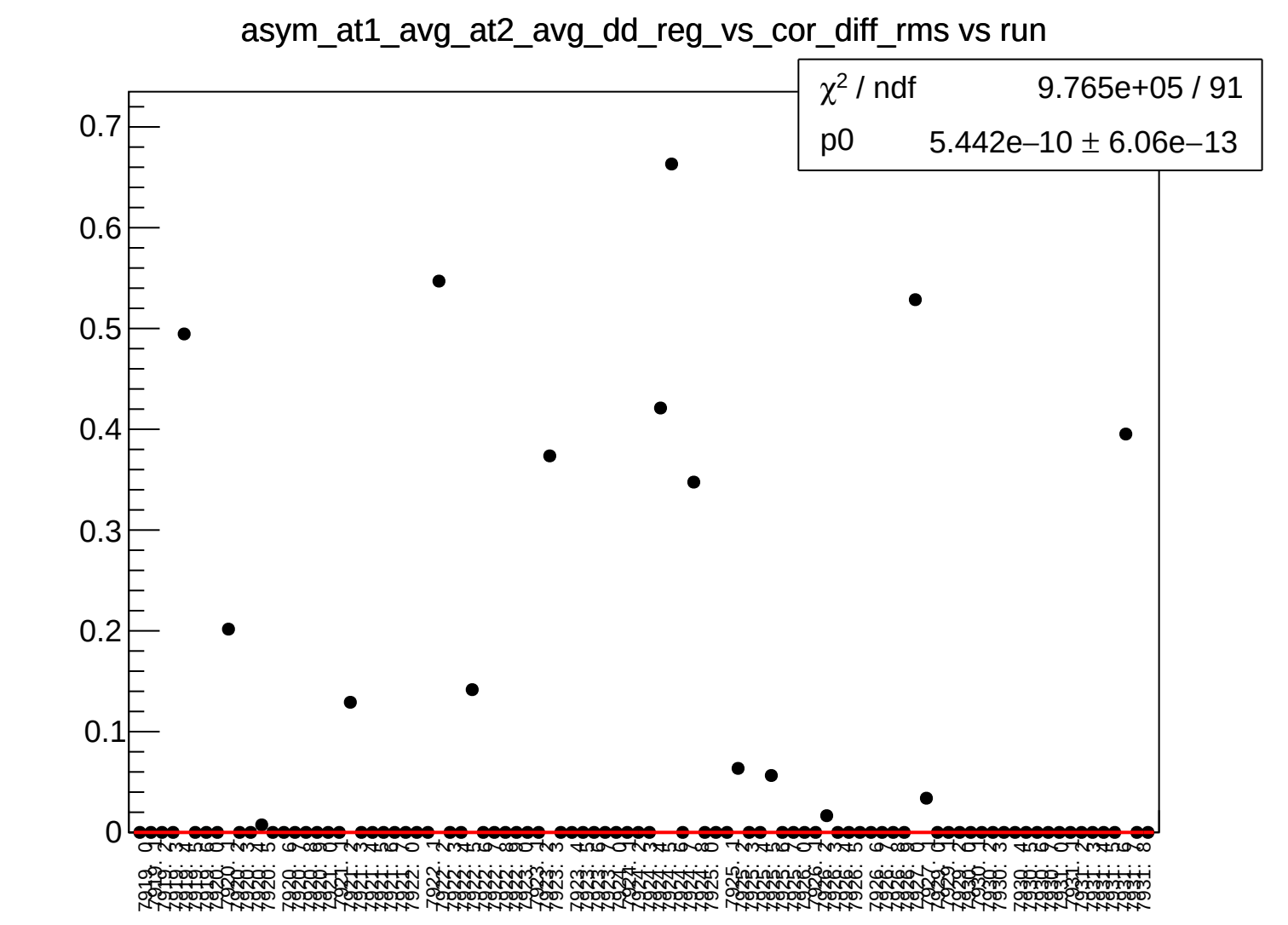

asym_at1_avg_at2_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 3478 / 91
p0 5292 ± 3.967
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800
4600

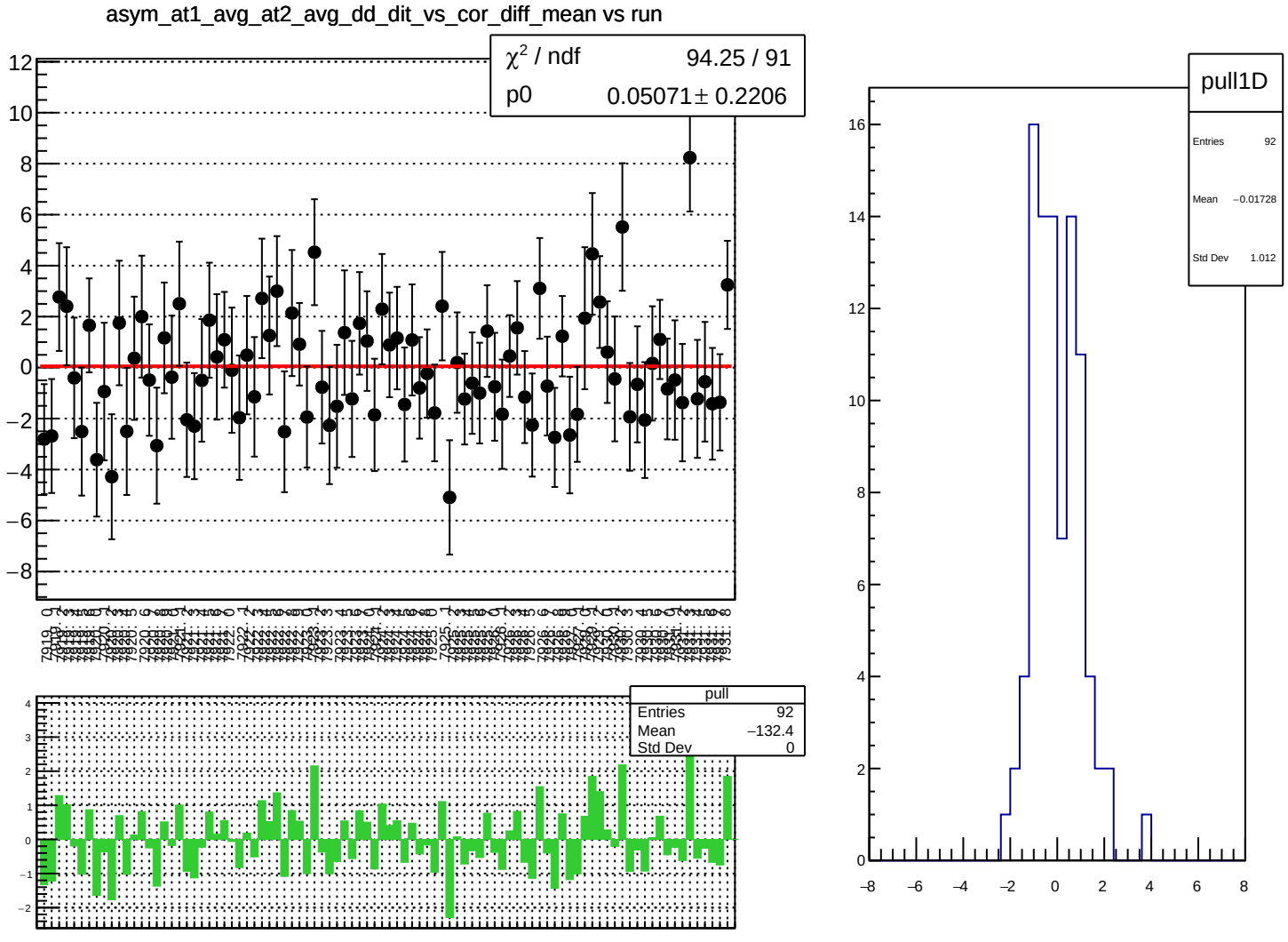

asym_at1_avg_at2_avg_dd_mean vs run
×10^3
χ² / ndf 95.86 / 91
p0 7837 ± 5692
pull
Entries 92
Mean −368
Std Dev 0

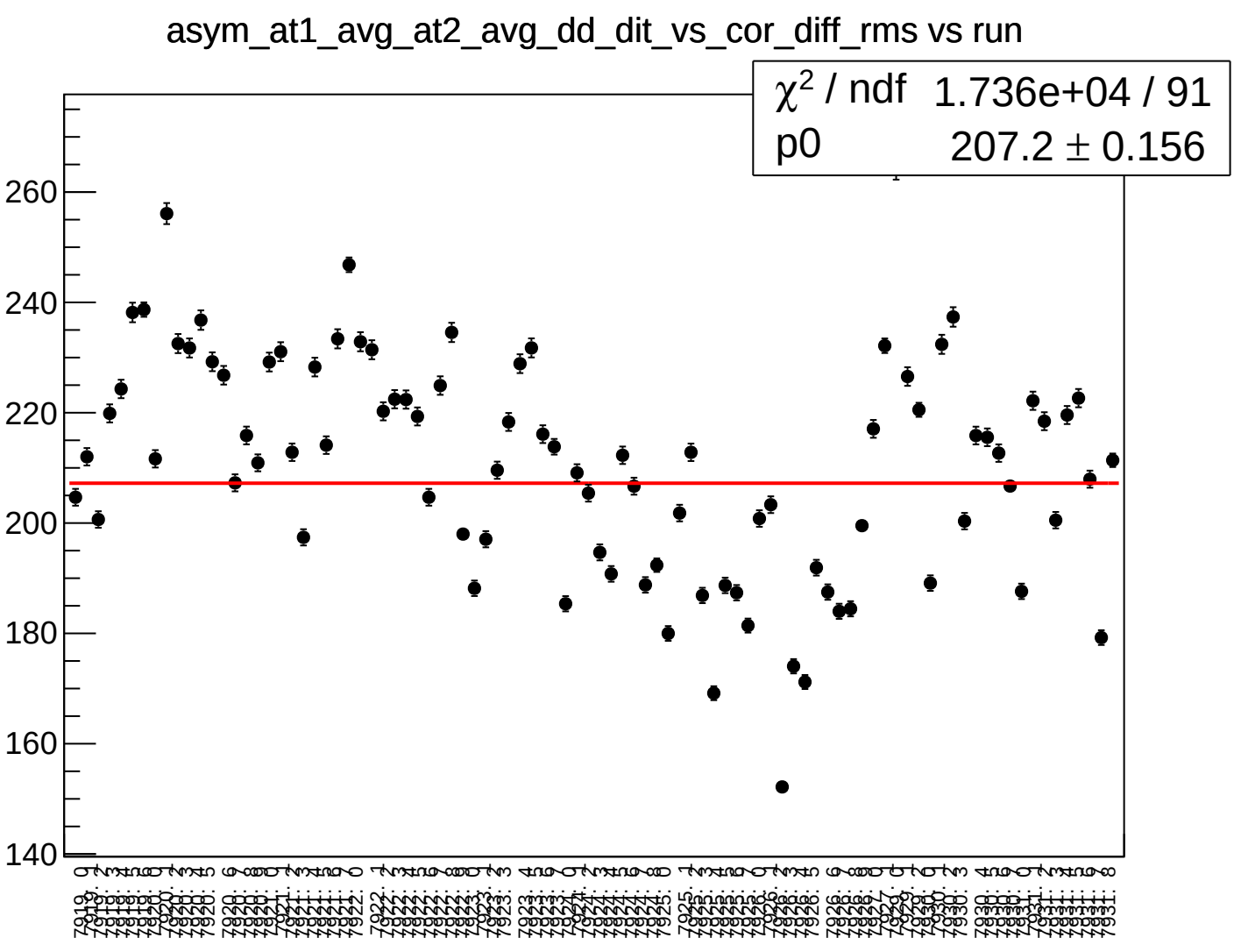

pull1D
Entries 92
Mean −0.005355
Std Dev 1.021

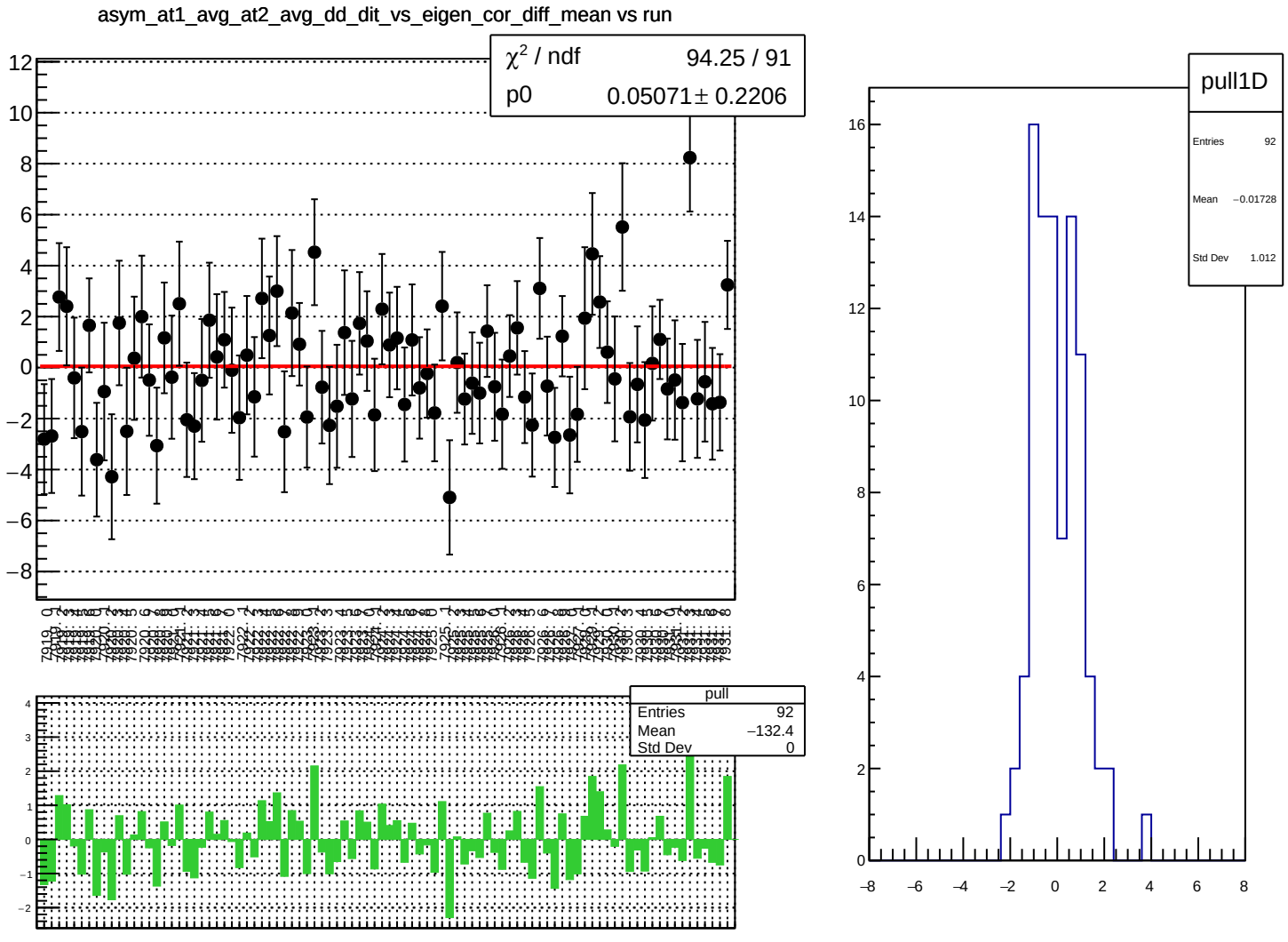

asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 2906 / 91
p0 5370 ± 4.025
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800

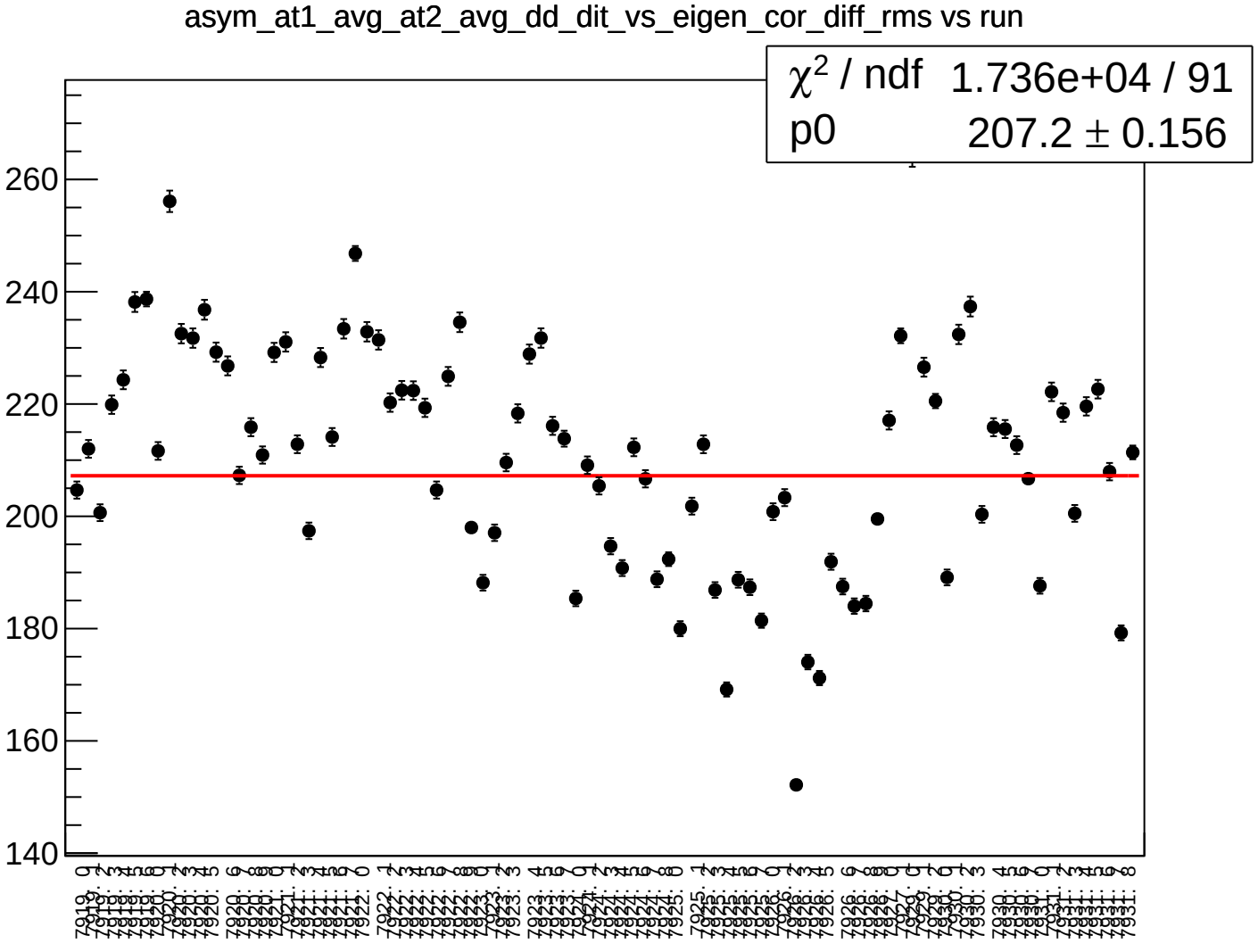

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 98.98 / 91
p0 −1.763e−12 ± 8.571e−13
0.005
0
−0.005
−0.01
−0.015
pull
Entries 92
Mean 212.9
Std Dev 0
pull1D
Entries 92
Mean −0.01866
Std Dev 1.037

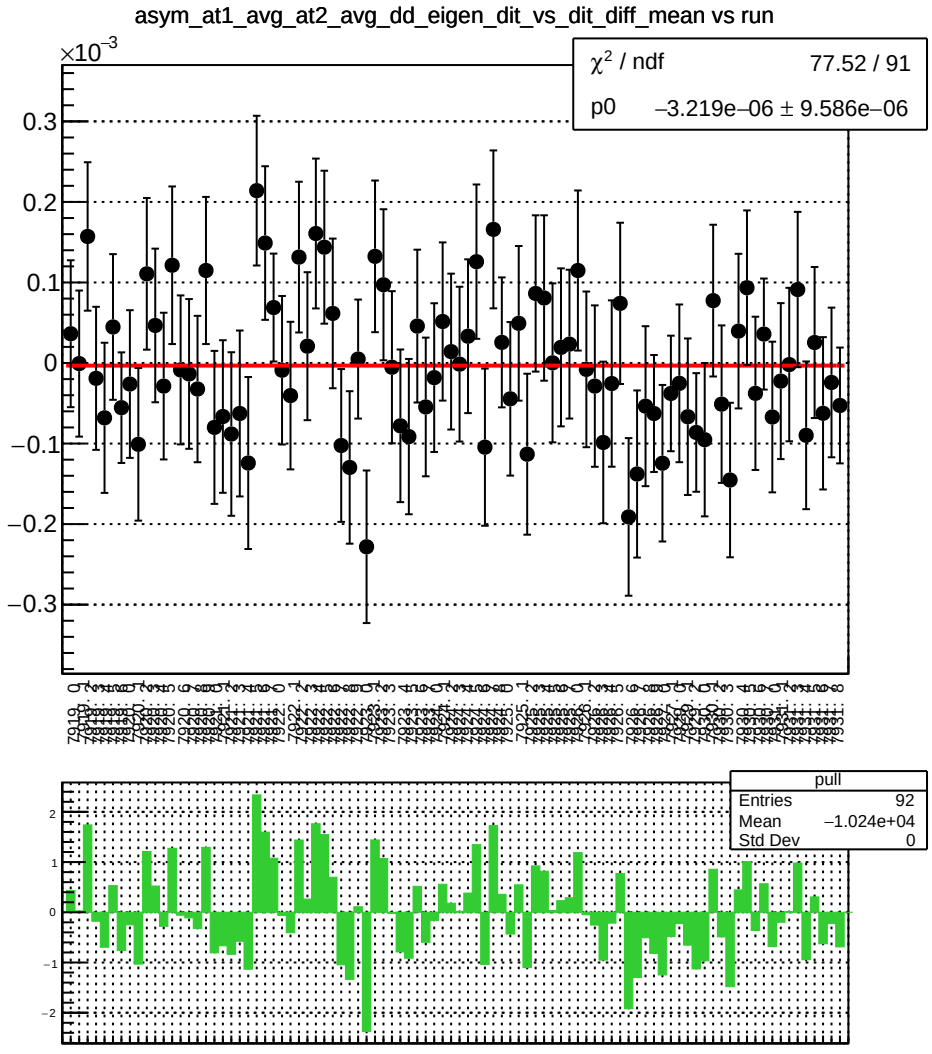

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.765e+05 / 91
p0 5.442e−10 ± 6.06e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

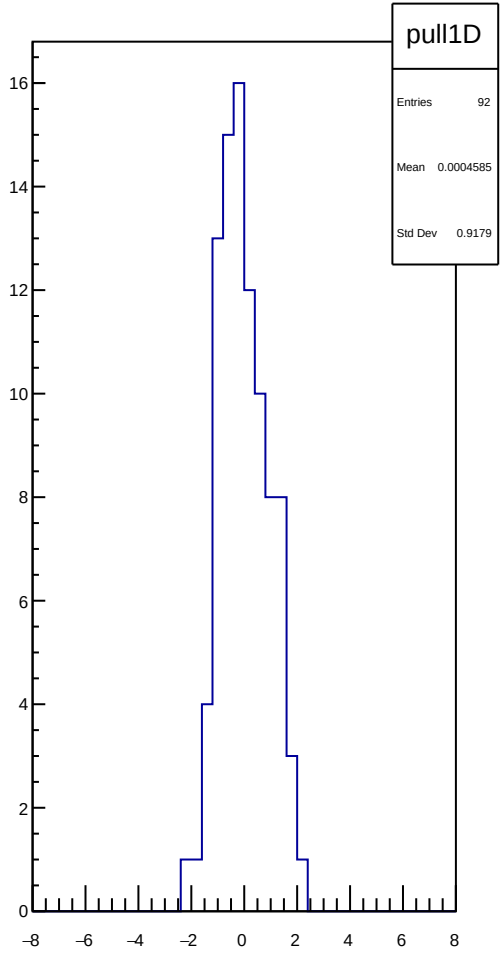

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 94.25 / 91
p0 0.05071 ± 0.2206
pull
Entries 92
Mean −132.4
Std Dev 0
pull1D
Entries 92
Mean −0.01728
Std Dev 1.012

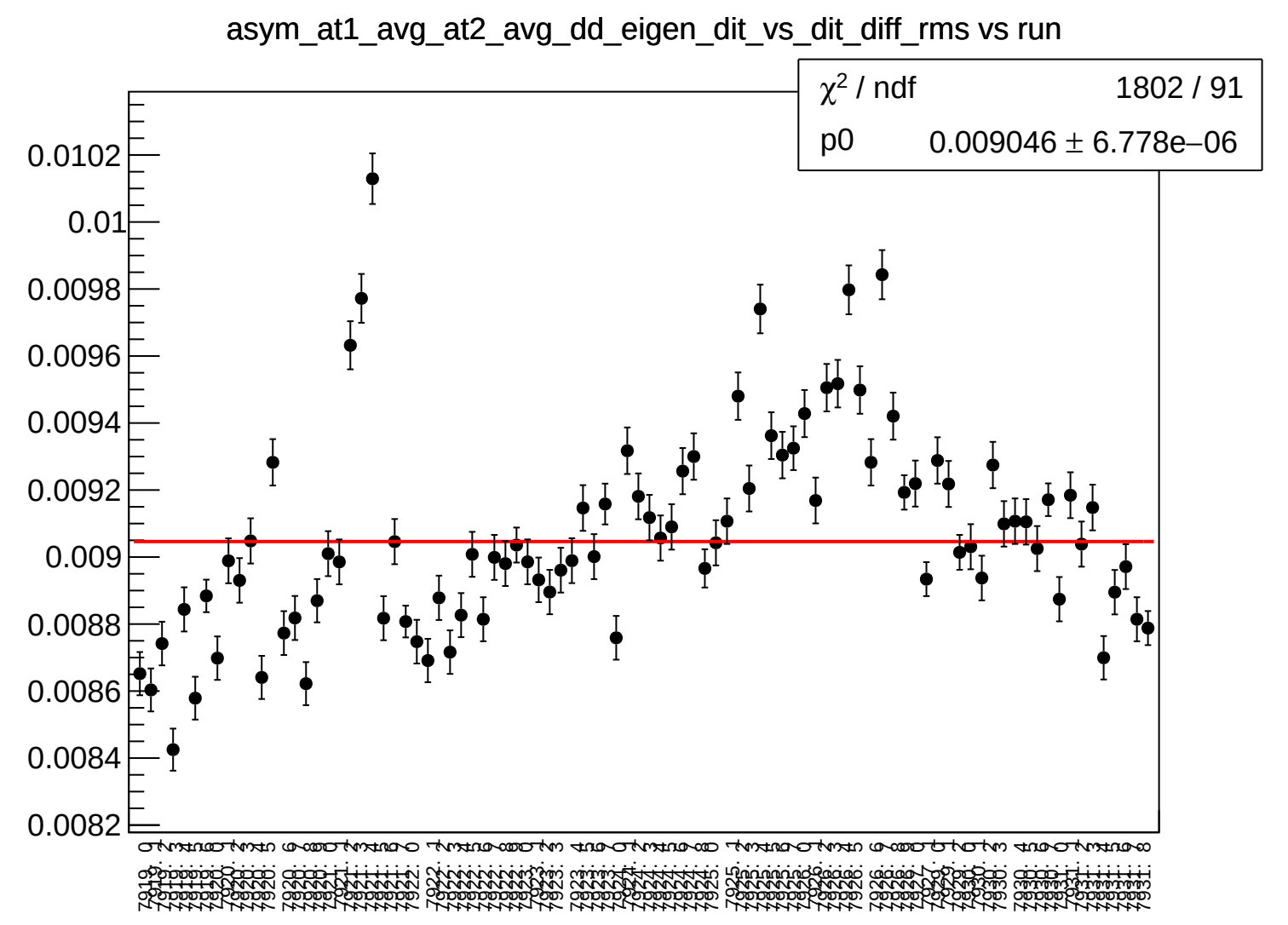

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.736e+04 / 91
p0 207.2 ± 0.156
260
240
220
200
180
160
140

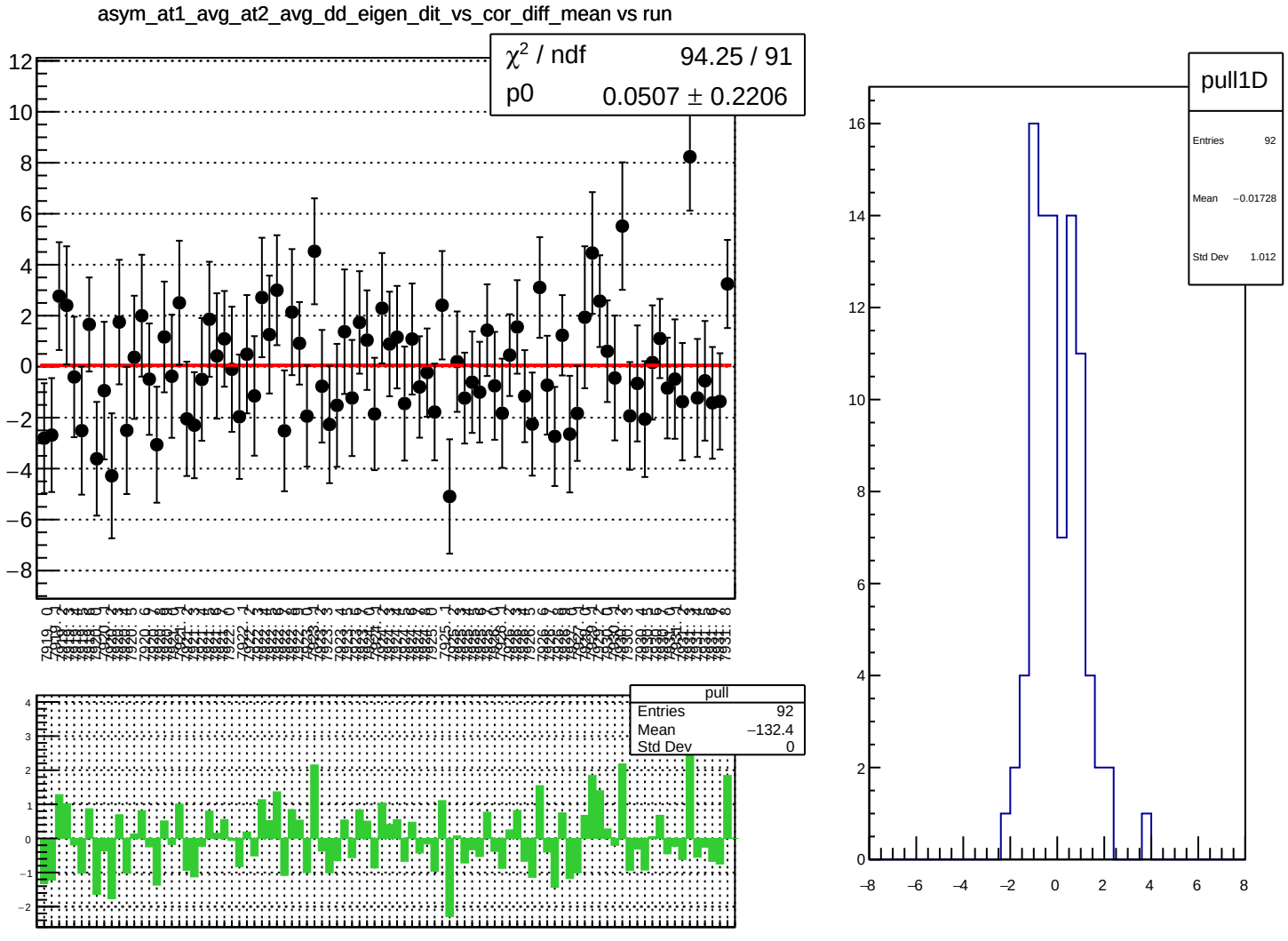

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.25 / 91
p0 0.05071 ± 0.2206
pull
Entries 92
Mean −132.4
Std Dev 0
pull1D
Entries 92
Mean −0.01728
Std Dev 1.012

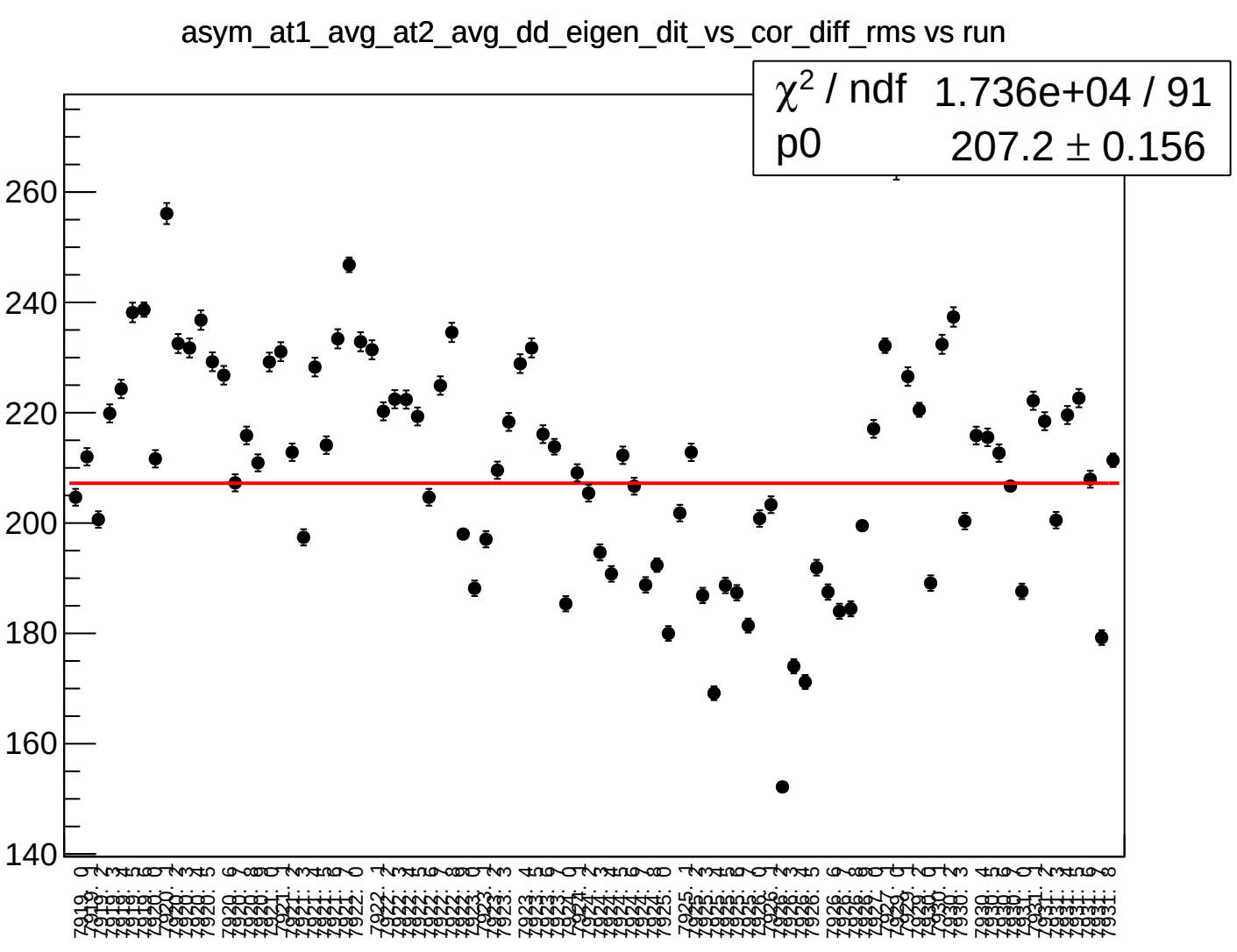

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.736e+04 / 91
p0 207.2 ± 0.156
260
240
220
200
180
160
140

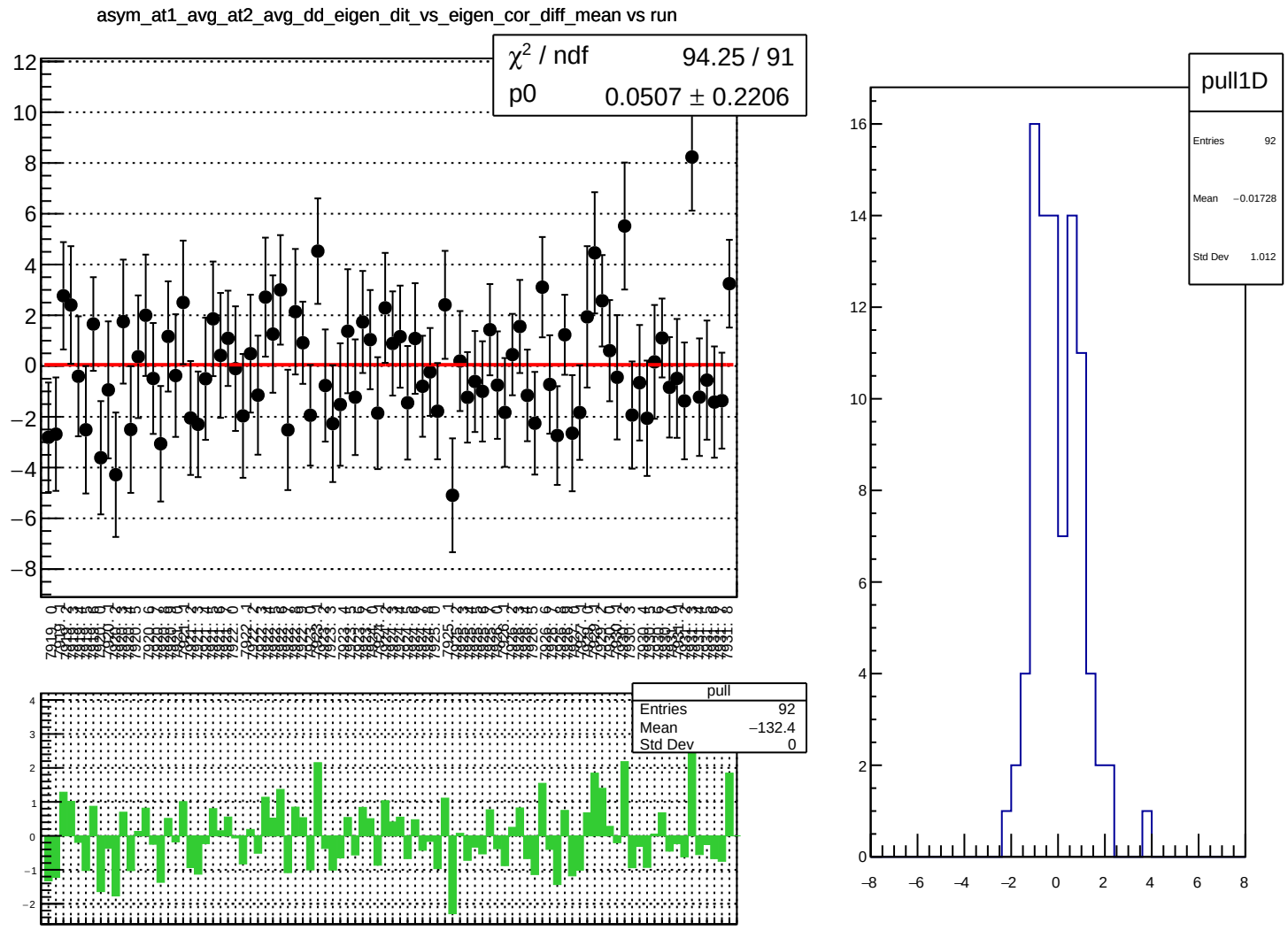

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 77.52 / 91
p0 −3.219e−06 ± 9.586e−06
pull
Entries 92
Mean −1.024e+04
Std Dev 0

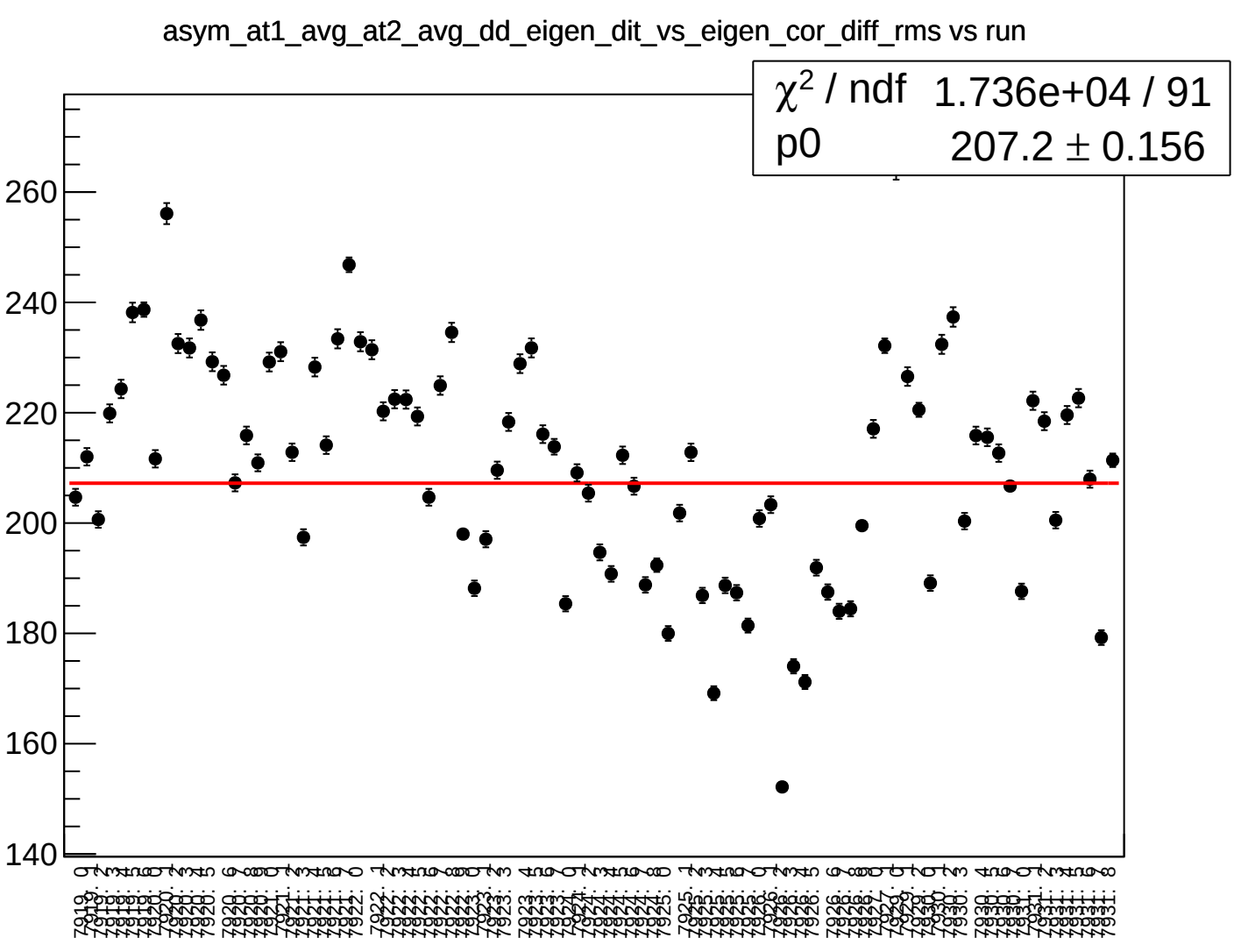

pull1D
Entries 92
Mean 0.0004585
Std Dev 0.9179

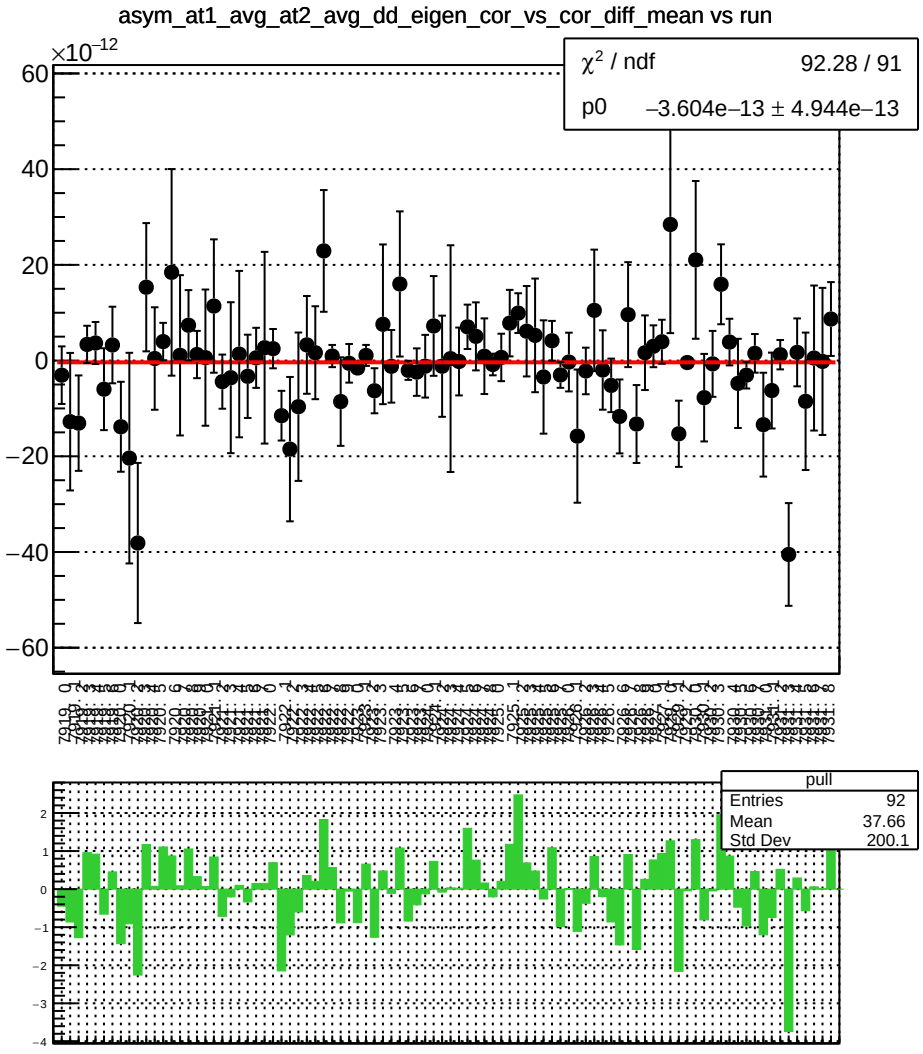

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1802 / 91
p0 0.009046 ± 6.778e−06
0.0102
0.01
0.0098
0.0096
0.0094
0.0092
0.009
0.0088
0.0086
0.0084
0.0082

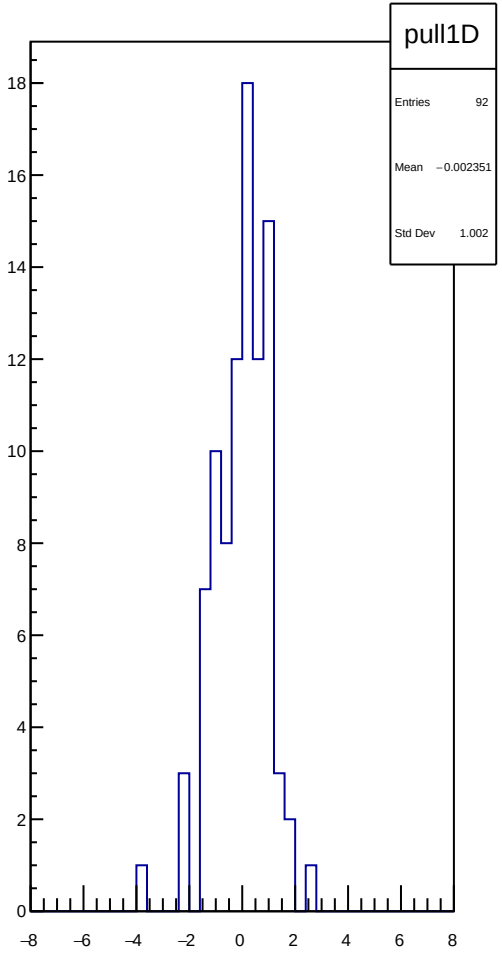

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.25 / 91
p0 0.0507 ± 0.2206
pull
Entries 92
Mean −132.4
Std Dev 0
pull1D
Entries 92
Mean −0.01728
Std Dev 1.012

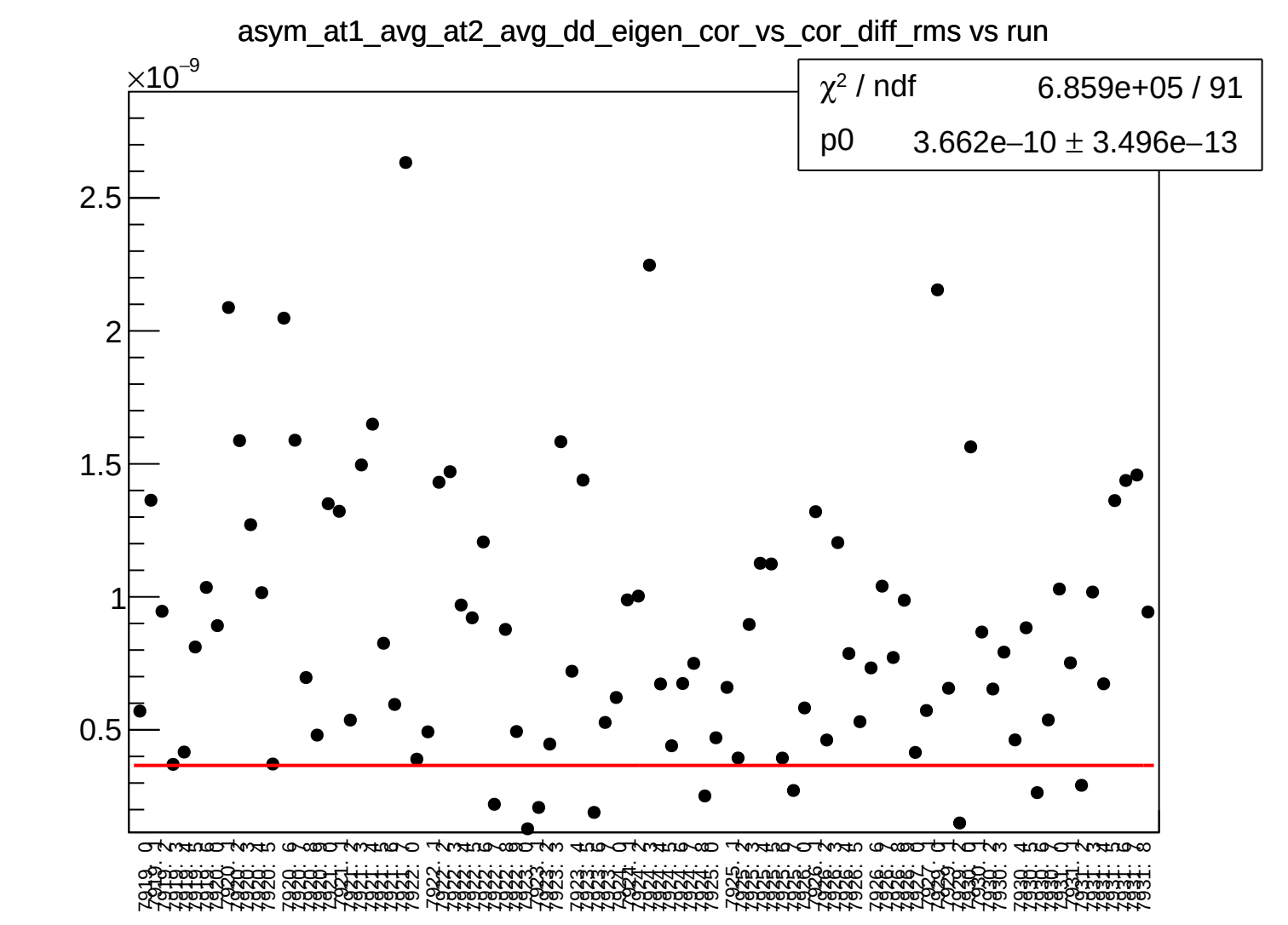

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.736e+04 / 91
p0 207.2 ± 0.156
260
240
220
200
180
160
140

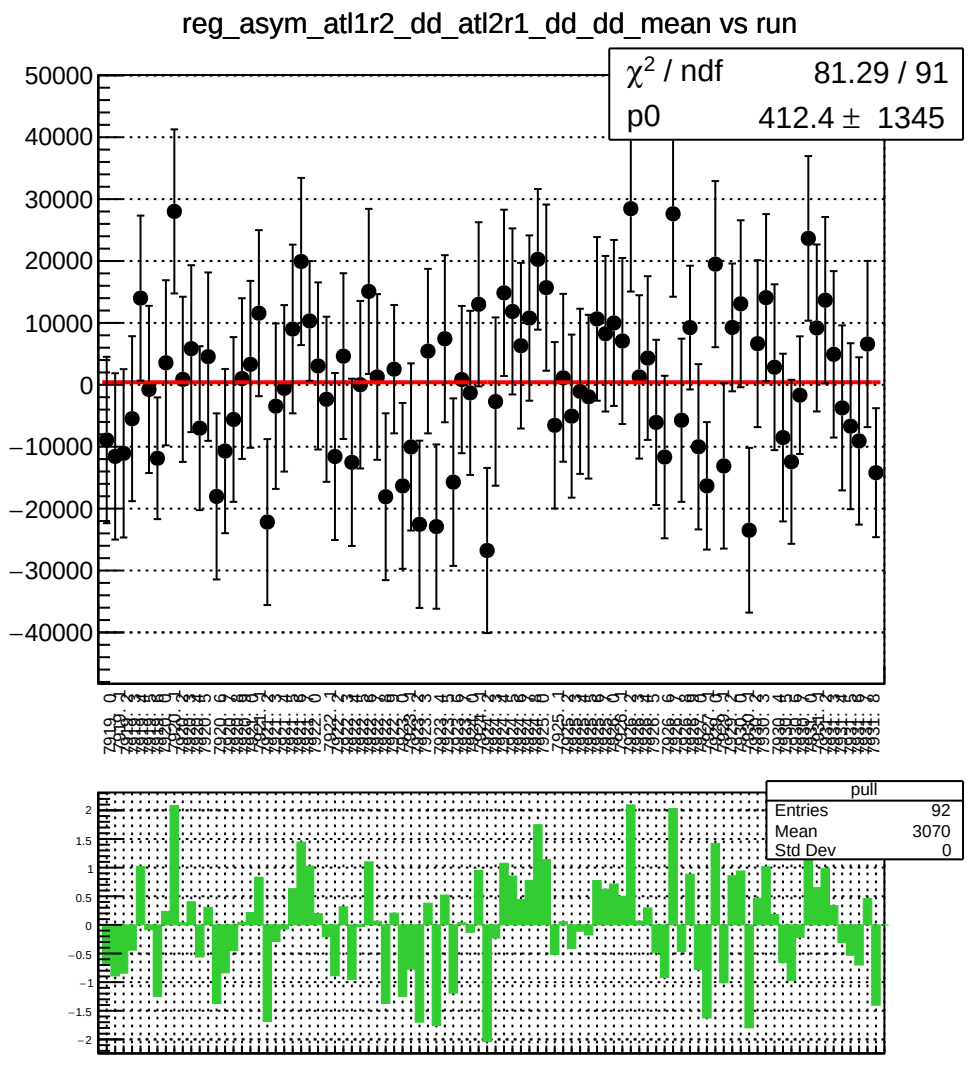

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.25 / 91
p0 0.0507 ± 0.2206
pull
Entries 92
Mean −132.4
Std Dev 0
pull1D
Entries 92
Mean −0.01728
Std Dev 1.012

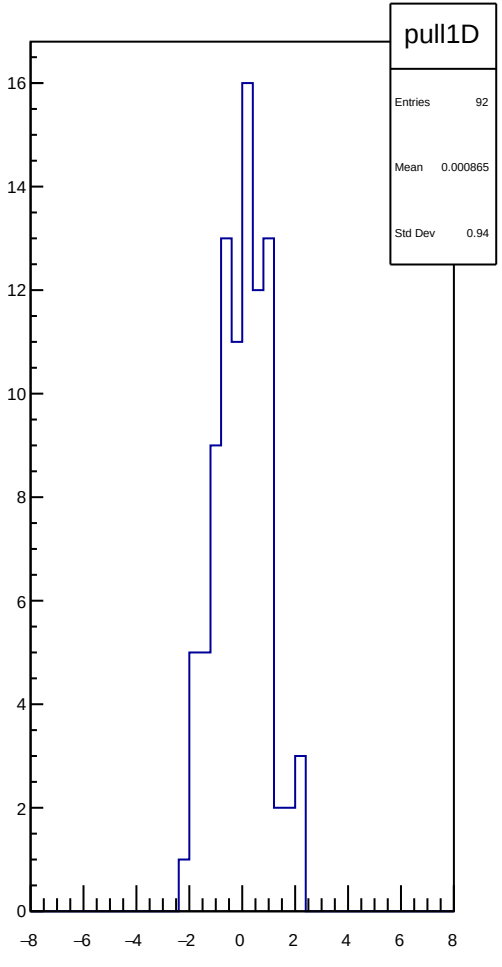

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.736e+04 / 91
p0 207.2 ± 0.156
260
240
220
200
180
160
140

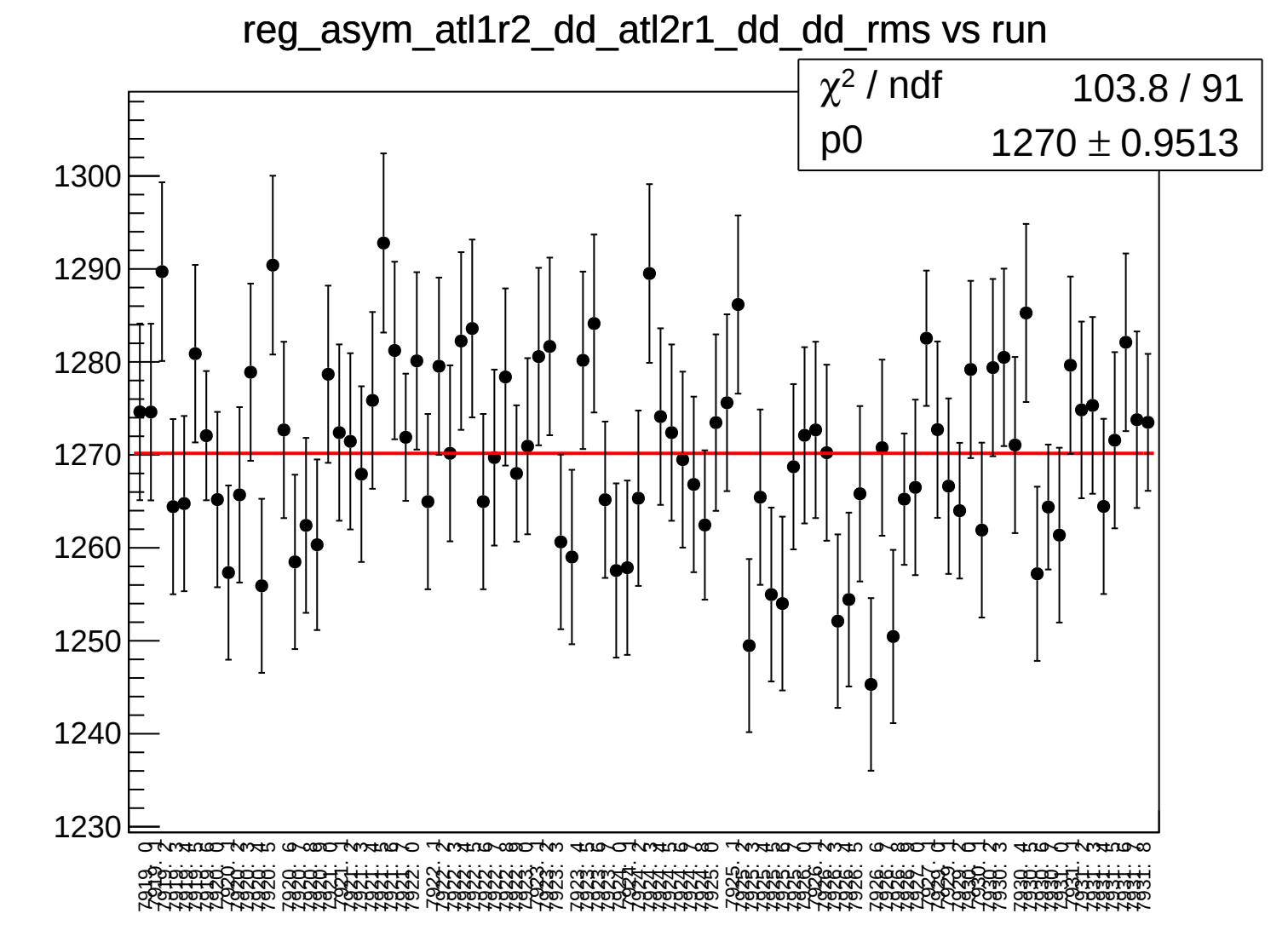

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.28 / 91
p0 −3.604e−13 ± 4.944e−13
pull
Entries 92
Mean 37.66
Std Dev 200.1

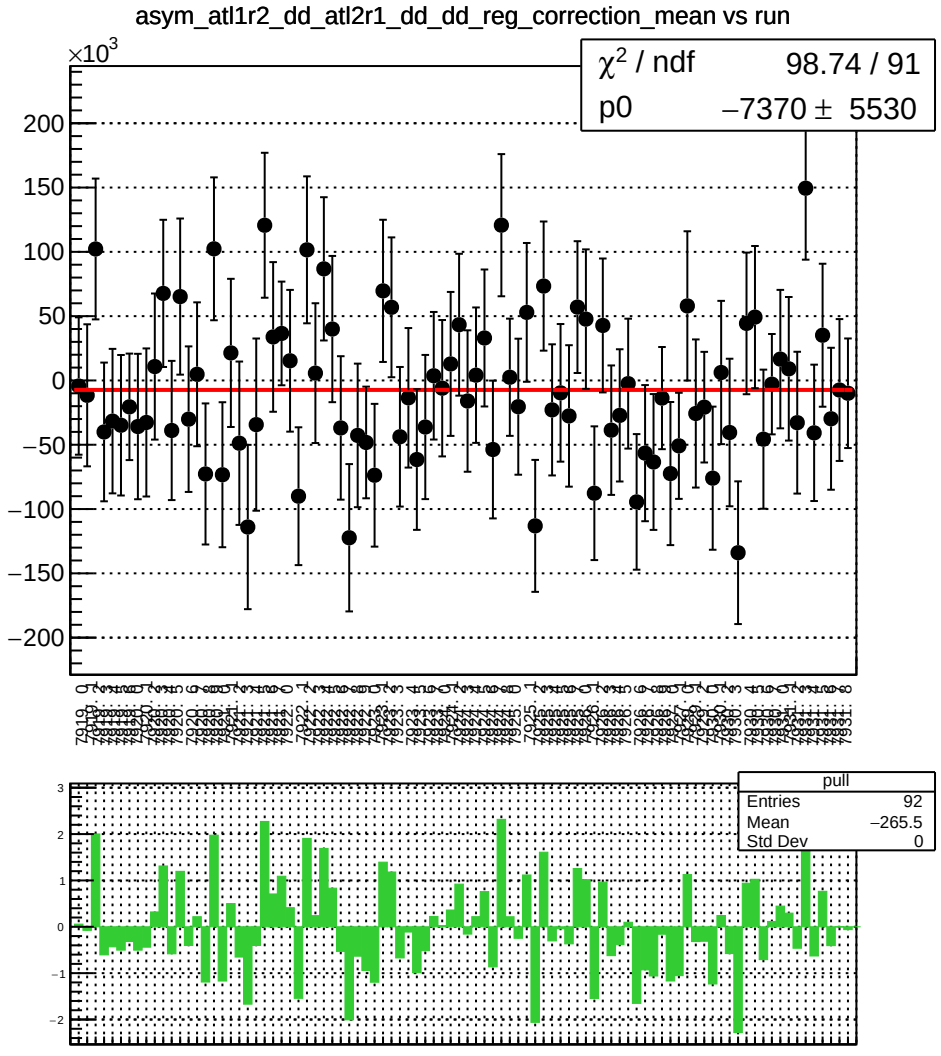

pull1D
Entries 92
Mean −0.002351
Std Dev 1.002

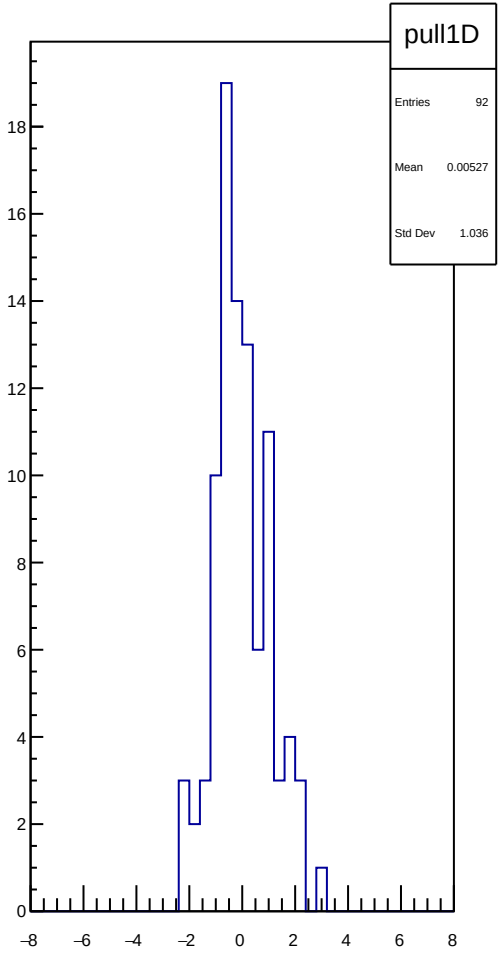

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.859e+05 / 91
p0 3.662e−10 ± 3.496e−13
2.5
2
1.5
1
0.5

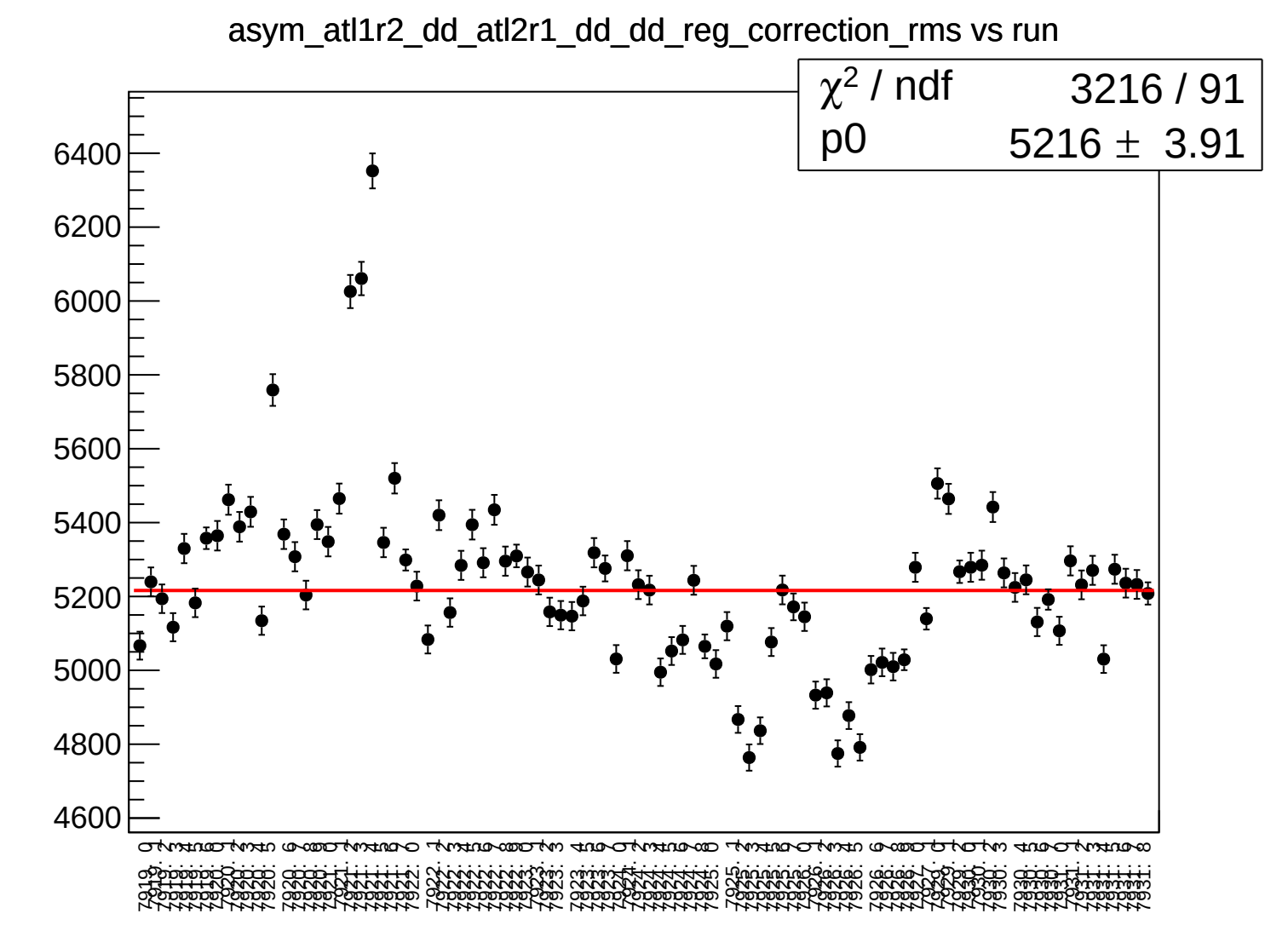

reg_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 81.29 / 91
p0 412.4 ± 1345
pull
Entries 92
Mean 3070
Std Dev 0

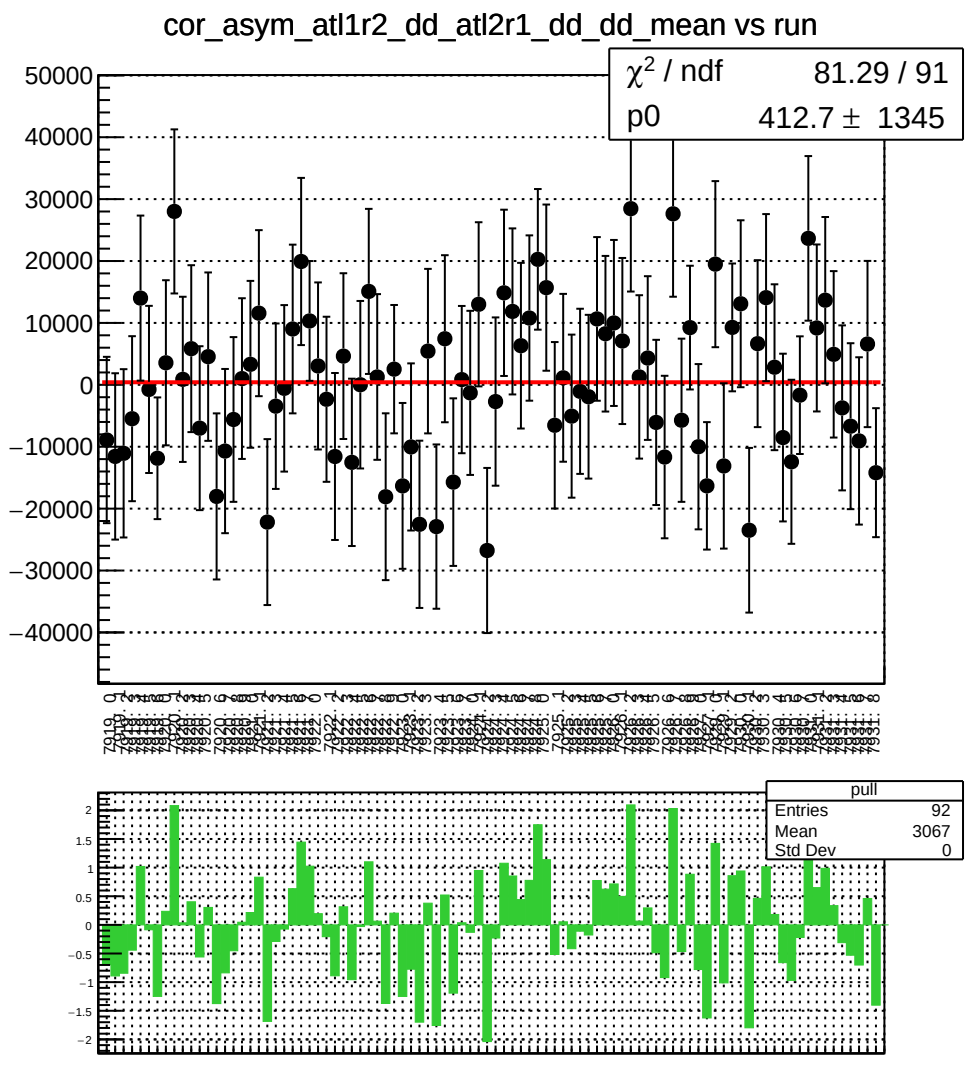

pull1D
Entries 92
Mean 0.000865
Std Dev 0.94

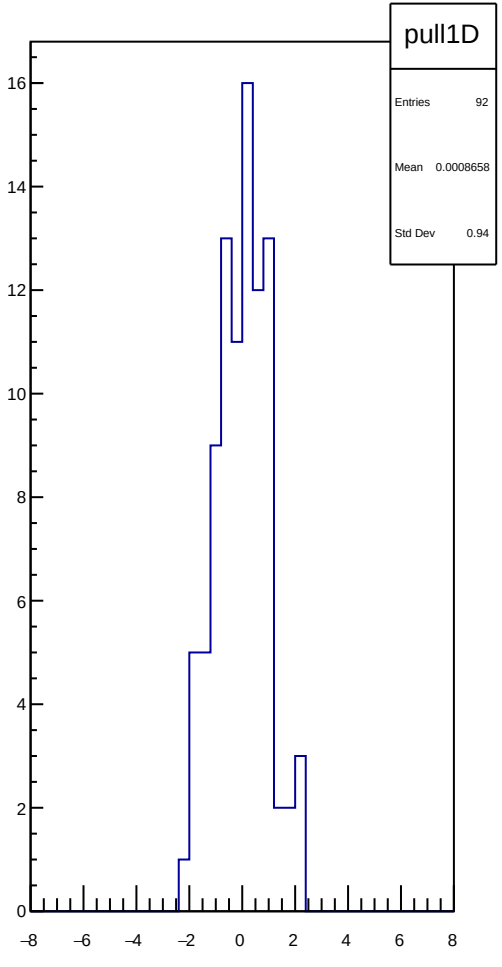

reg_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ^2 / ndf 103.8 / 91
p0 1270 ± 0.9513
1300
1290
1280
1270
1260
1250
1240
1230

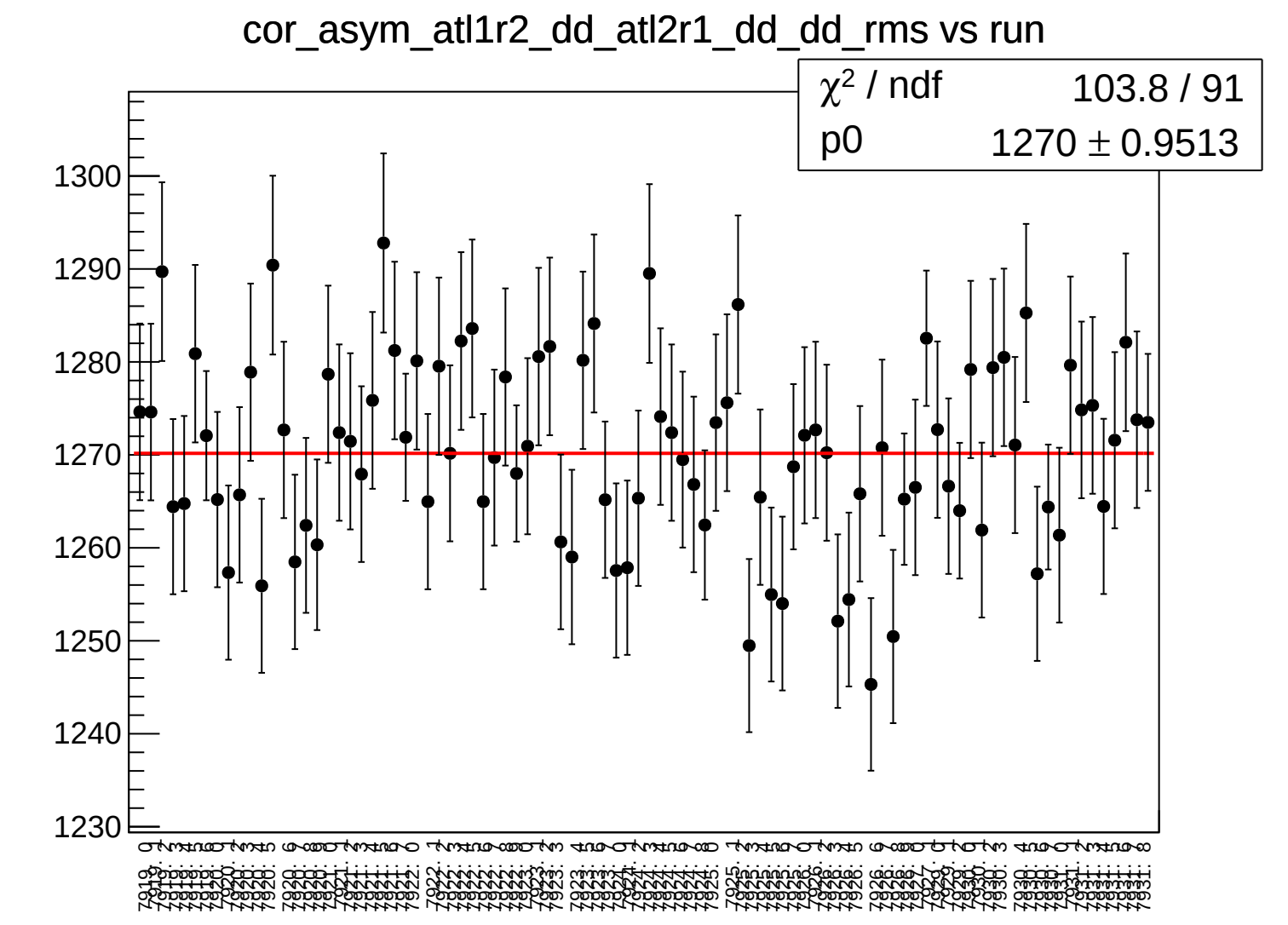

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_mean vs run
×10^3
χ² / ndf 98.74 / 91
p0 −7370 ± 5530
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 92
Mean −265.5
Std Dev 0
3
2
1
0
−1
−2

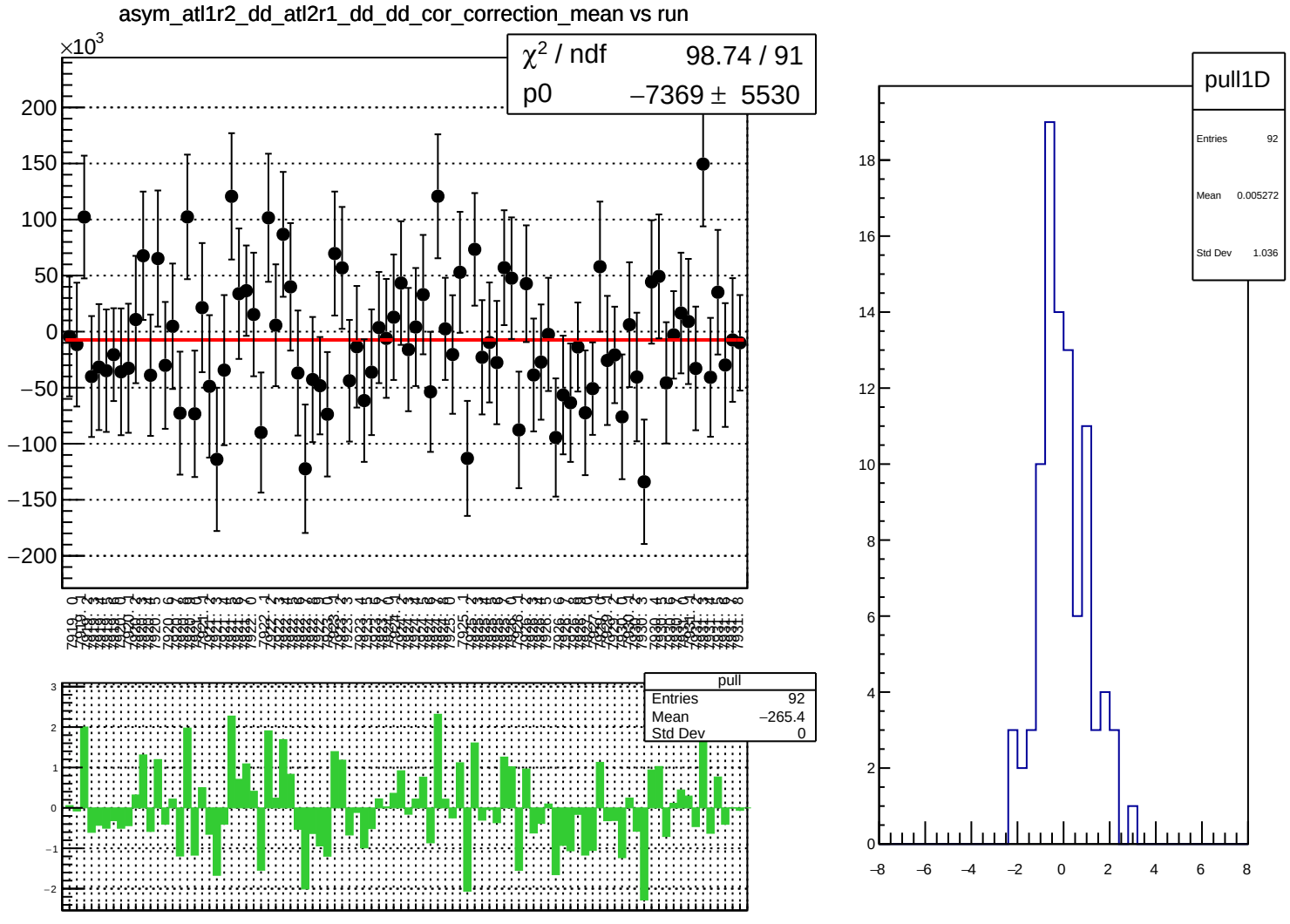

pull1D
Entries 92
Mean 0.00527
Std Dev 1.036
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

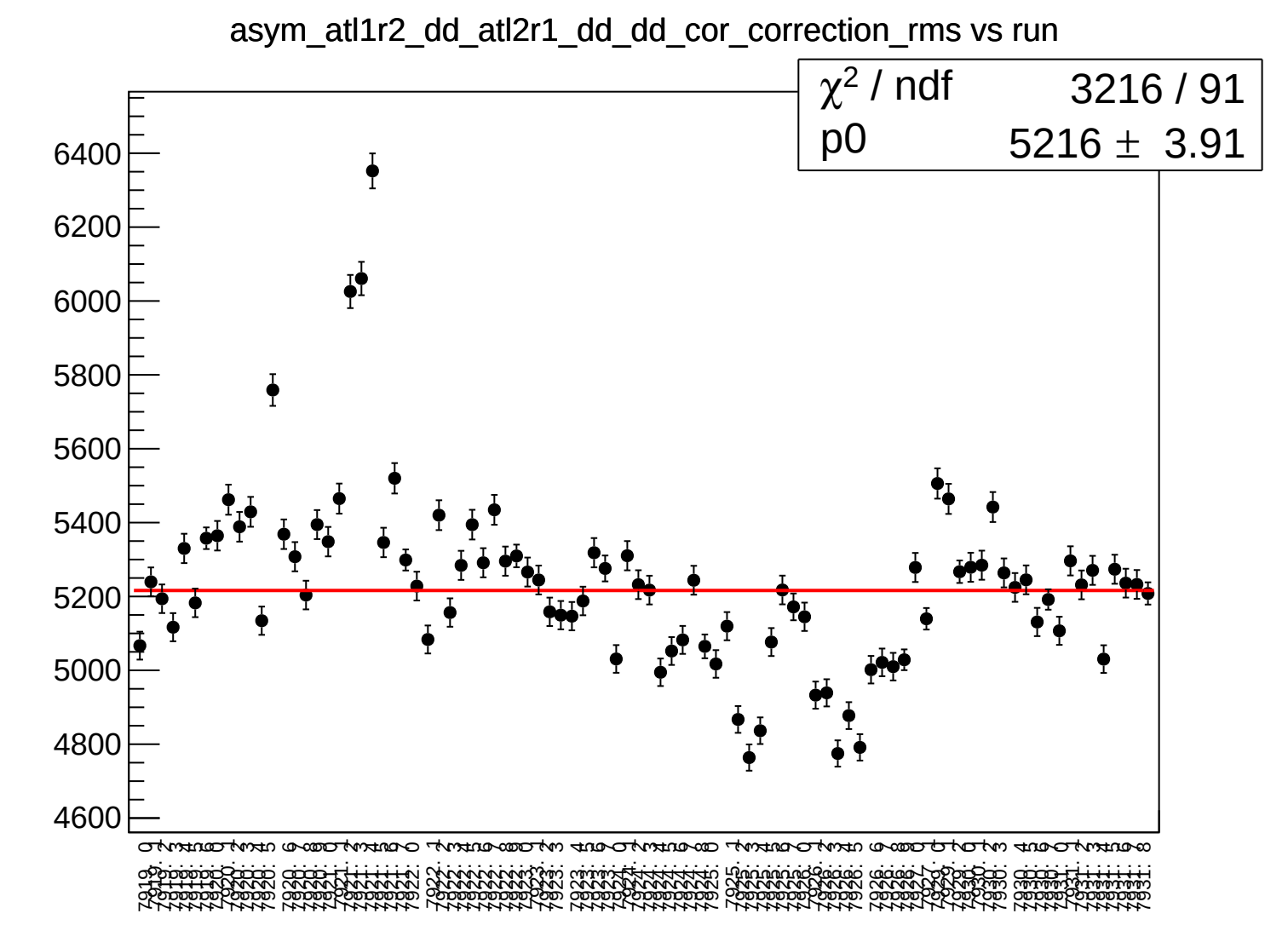

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_rms vs run
χ² / ndf 3216 / 91
p0 5216 ± 3.91
6400
6200
6000
5800
5600
5400
5200
5000
4800
4600

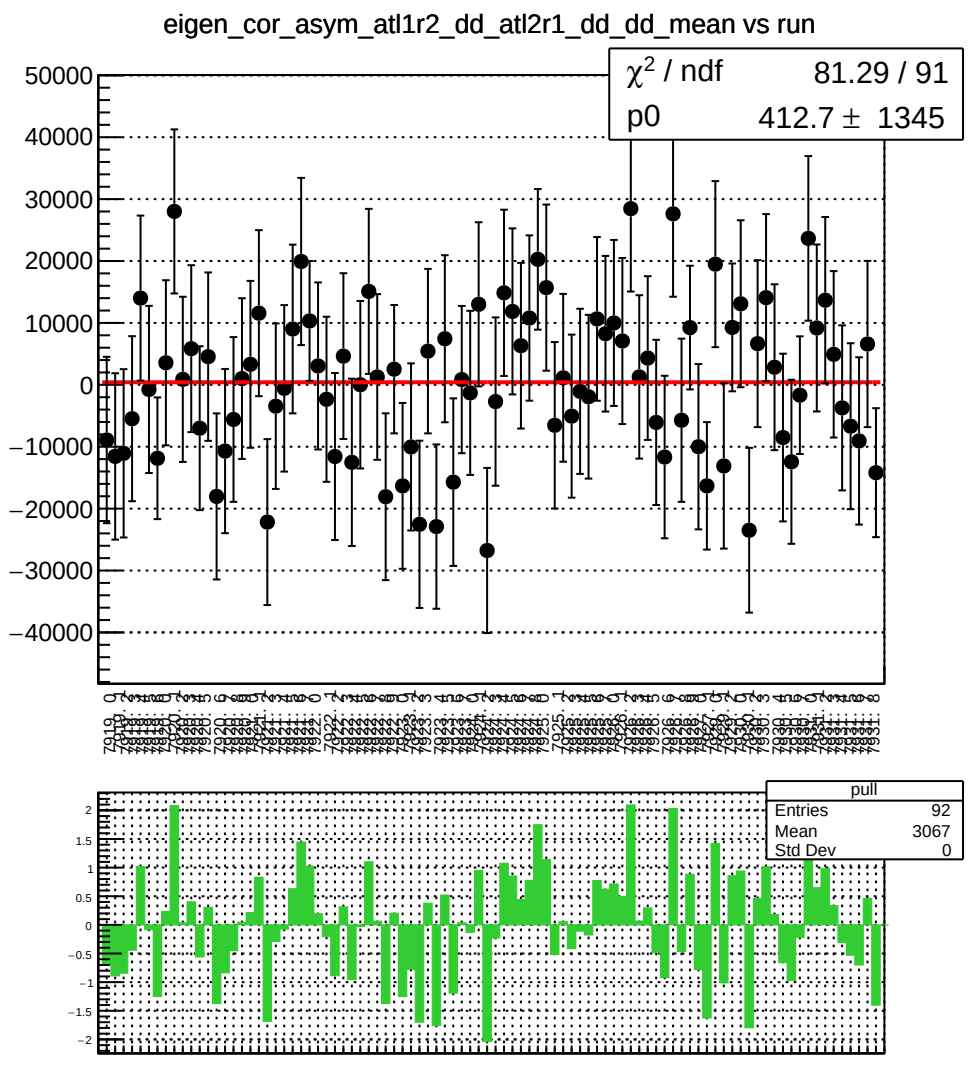

cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 81.29 / 91
p0 412.7 ± 1345
pull
Entries 92
Mean 3067
Std Dev 0

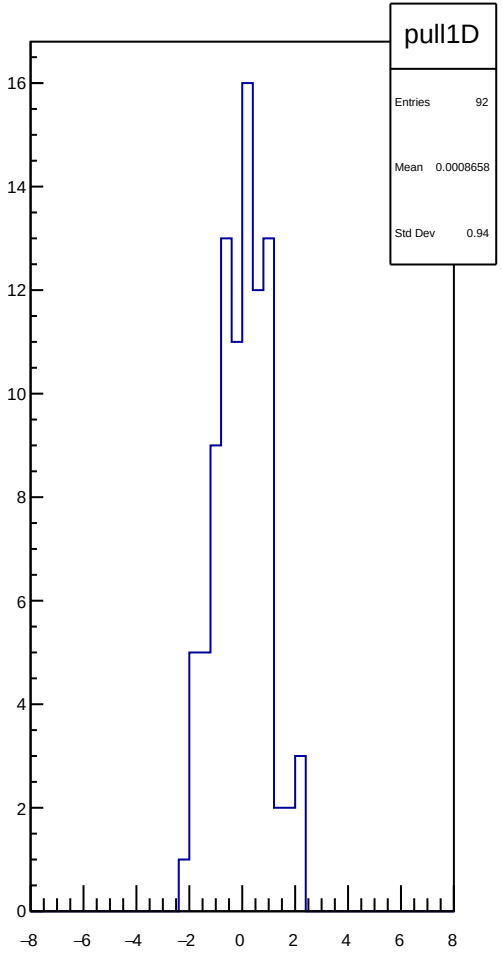

pull1D
Entries 92
Mean 0.0008658
Std Dev 0.94

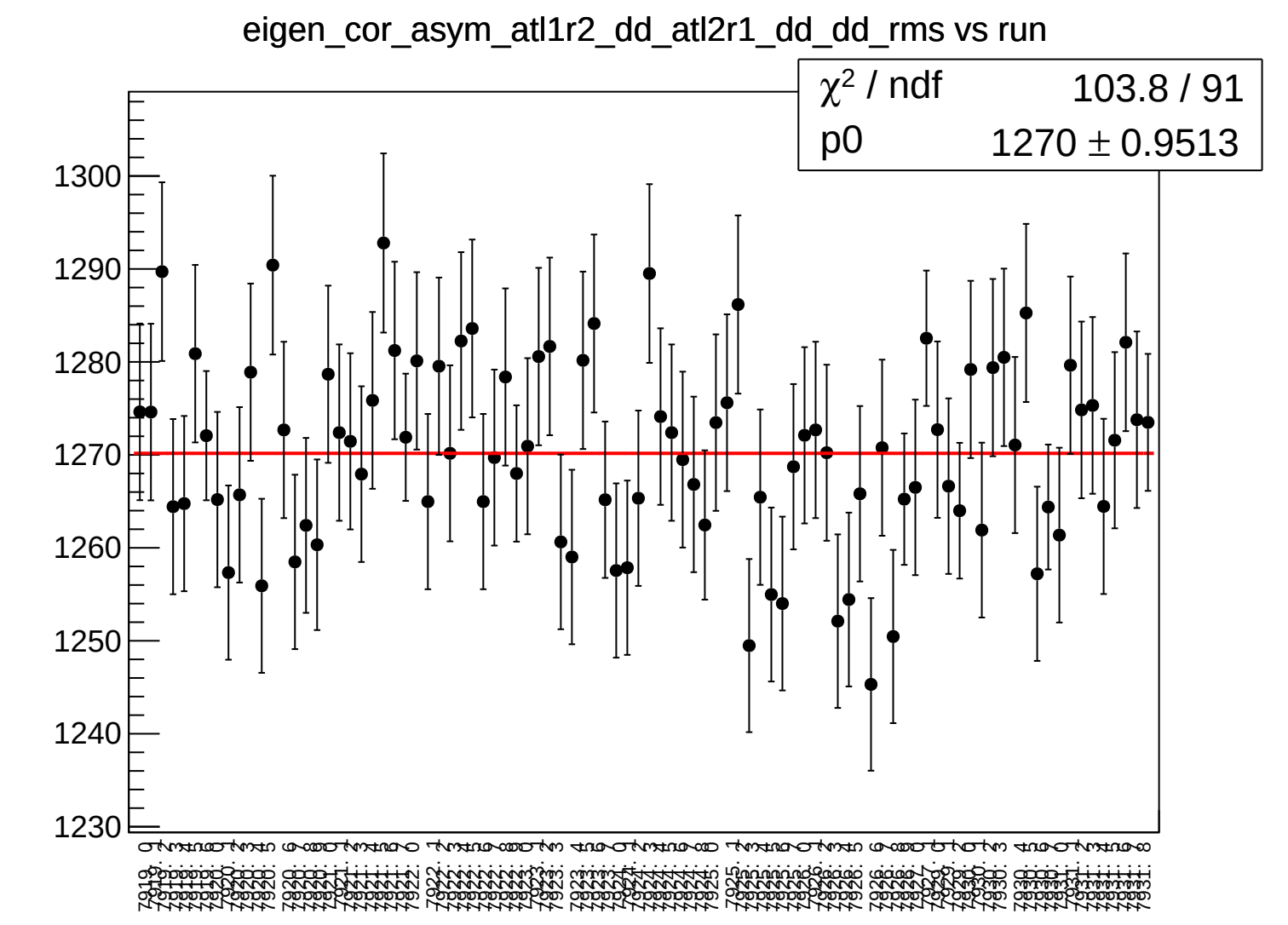

cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 103.8 / 91
p0 1270 ± 0.9513
1300
1290
1280
1270
1260
1250
1240
1230

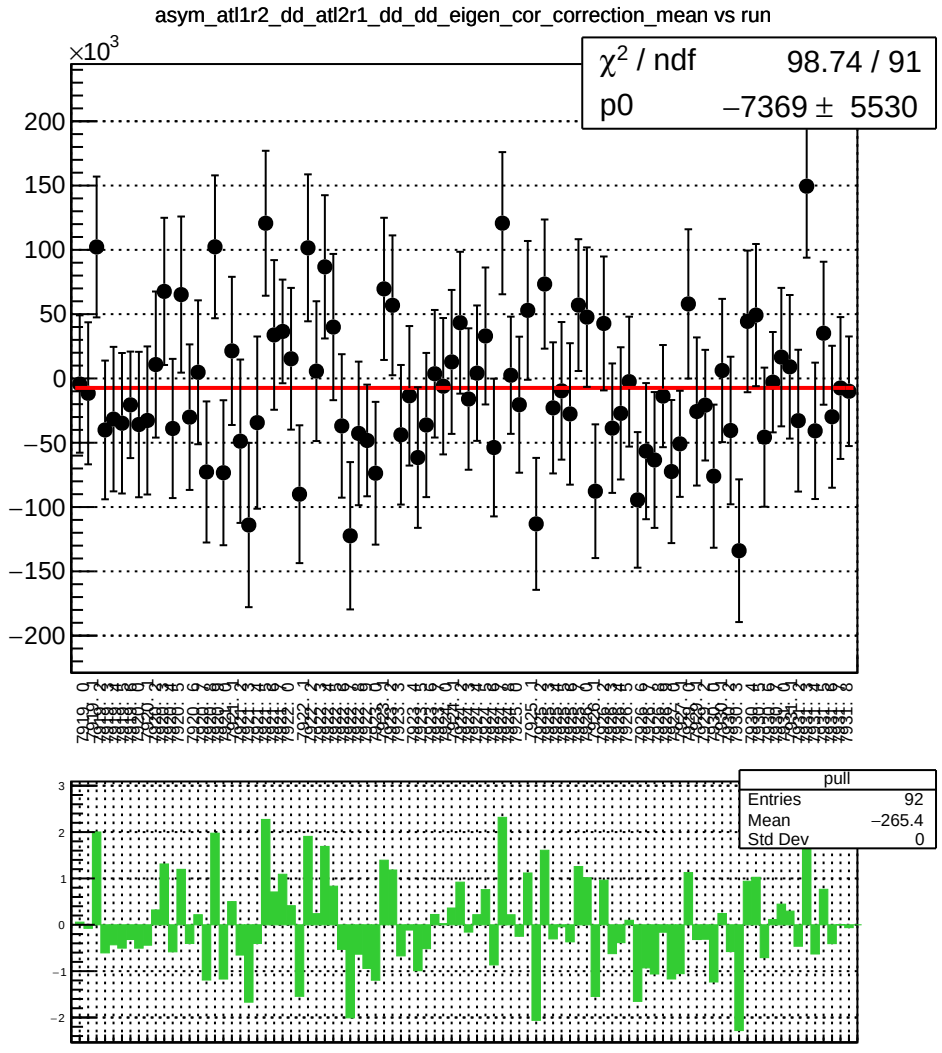

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_mean vs run
×10^3
χ² / ndf 98.74 / 91
p0 −7369 ± 5530
pull
Entries 92
Mean −265.4
Std Dev 0
pull1D
Entries 92
Mean 0.005272
Std Dev 1.036

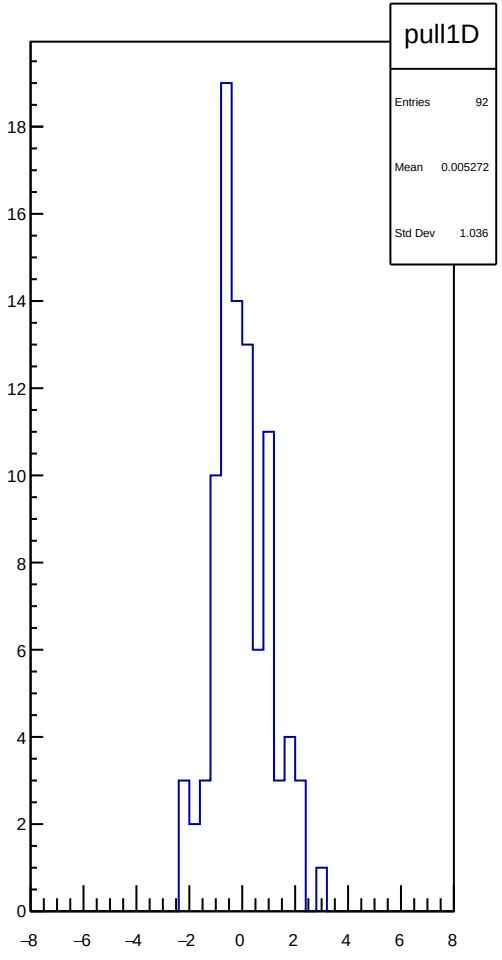

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_rms vs run
χ² / ndf 3216 / 91
p0 5216 ± 3.91
6400
6200
6000
5800
5600
5400
5200
5000
4800
4600

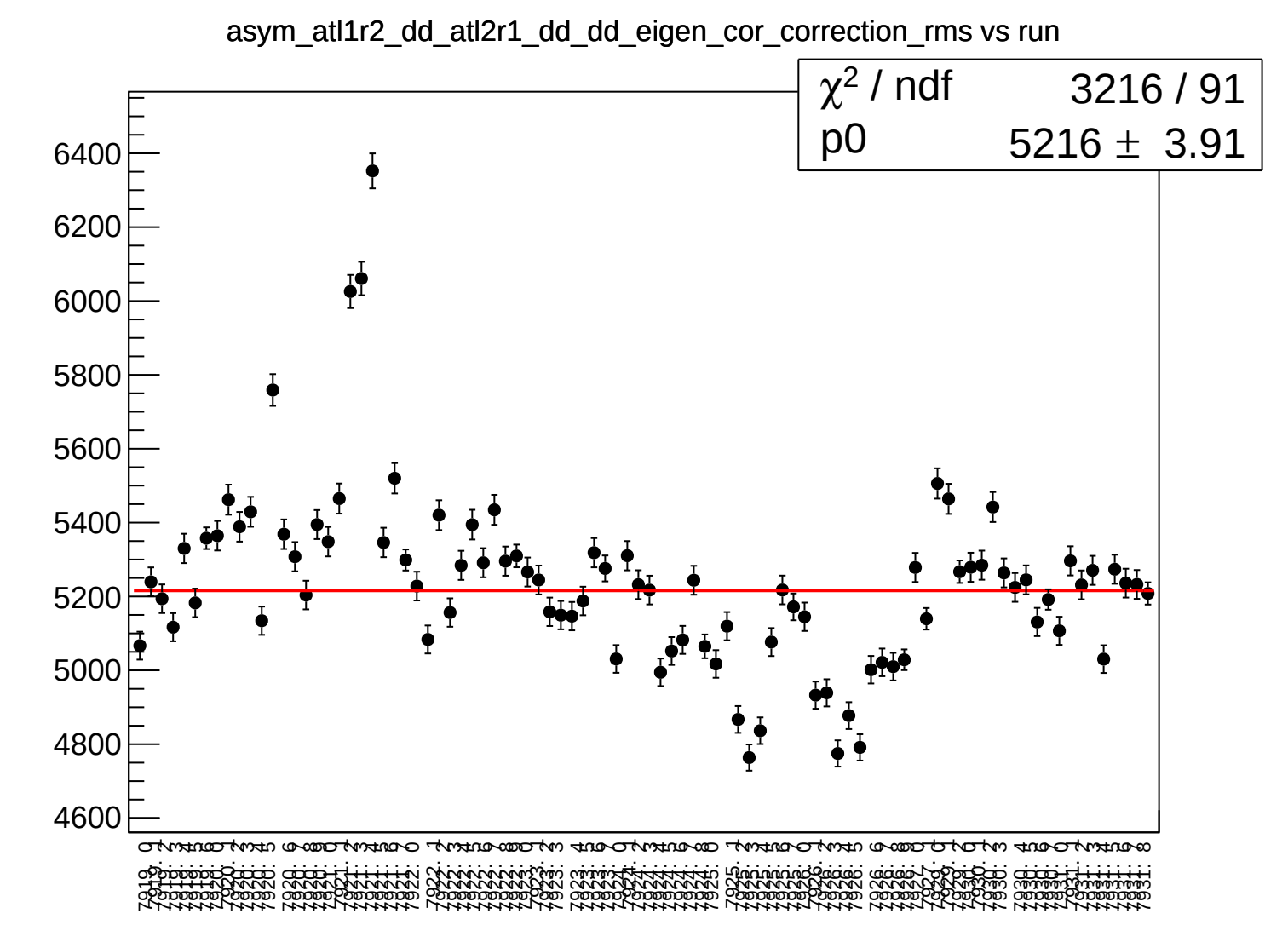

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 81.29 / 91
p0 412.7 ± 1345
pull
Entries 92
Mean 3067
Std Dev 0

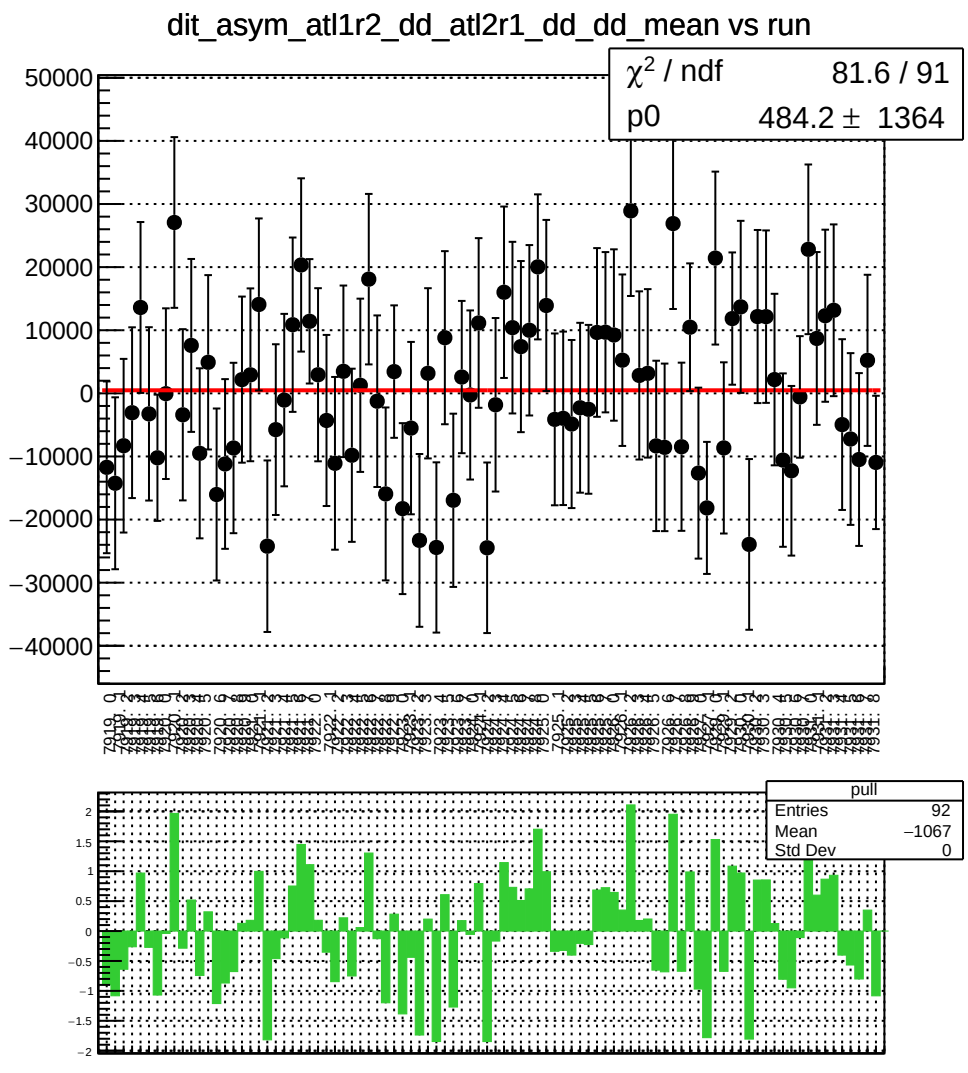

pull1D
Entries 92
Mean 0.0008658
Std Dev 0.94

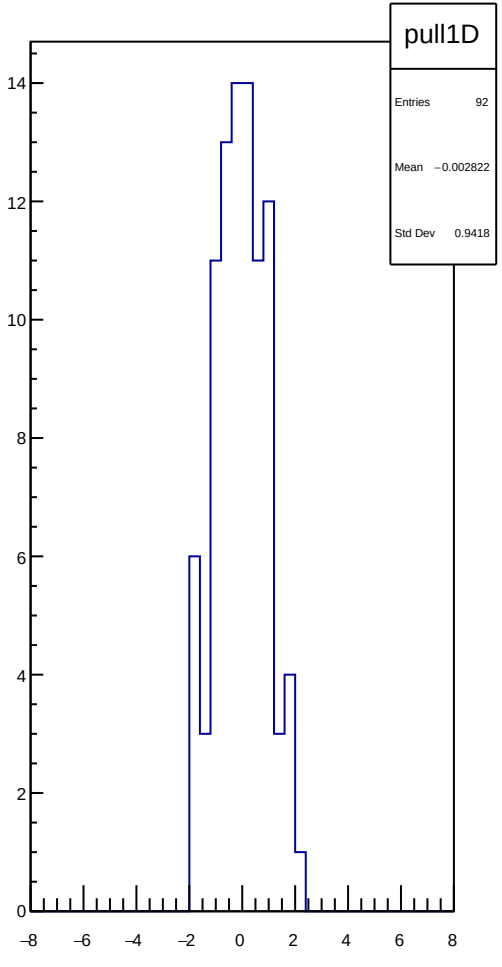

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 103.8 / 91
p0 1270 ± 0.9513
1300
1290
1280
1270
1260
1250
1240
1230

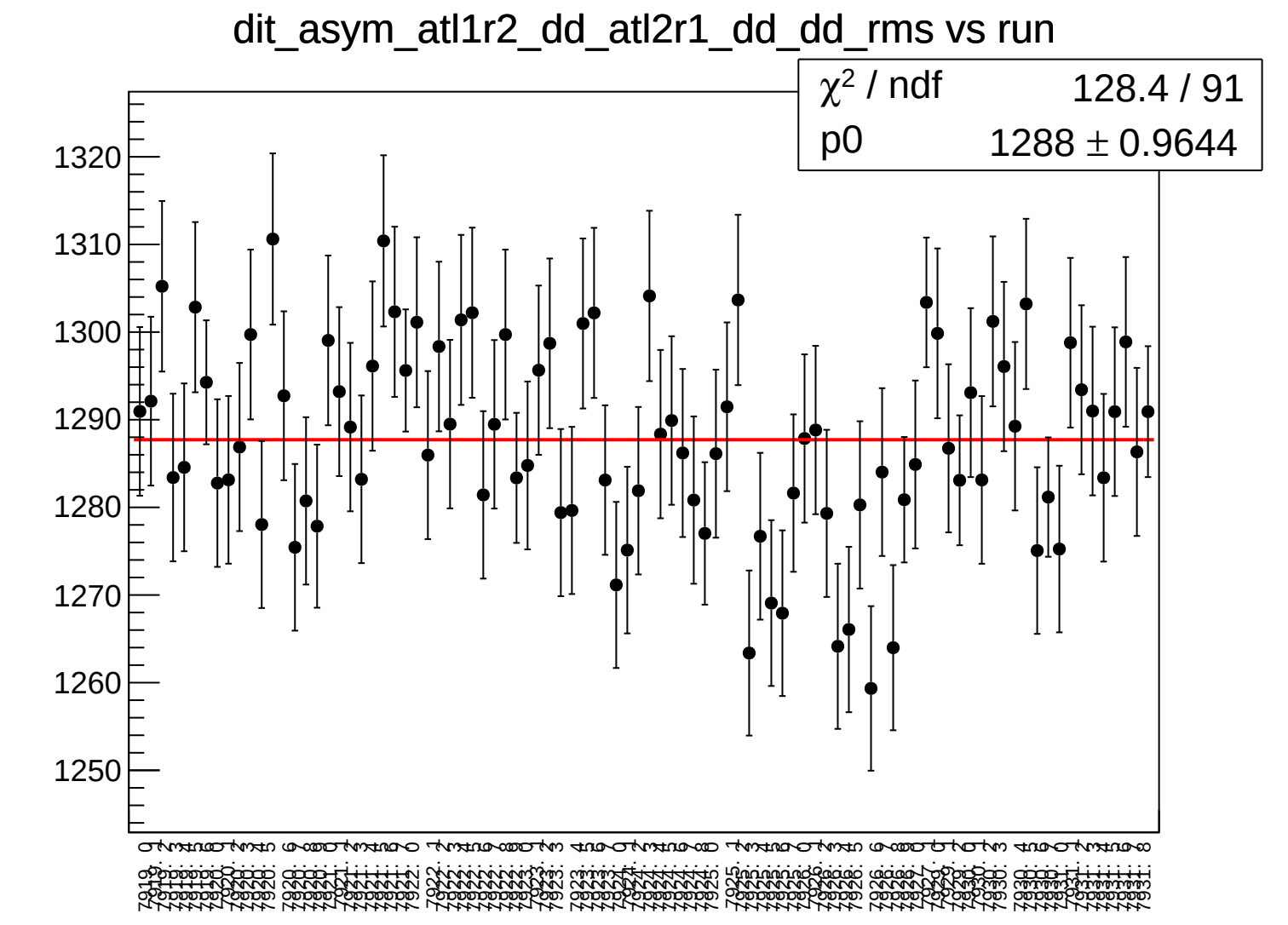

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 98.74 / 91
p0 −7369 ± 5530
pull
Entries 92
Mean −265.4
Std Dev 0

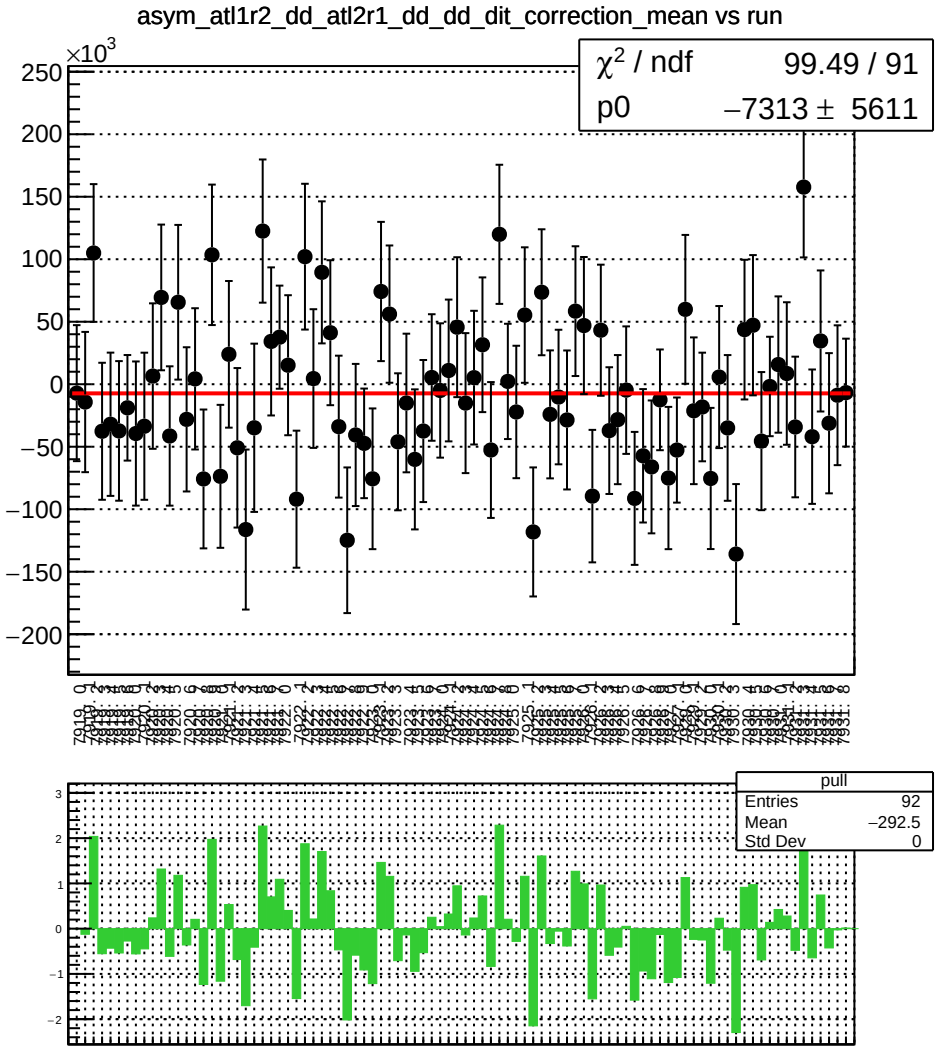

pull1D
Entries 92
Mean 0.005272
Std Dev 1.036

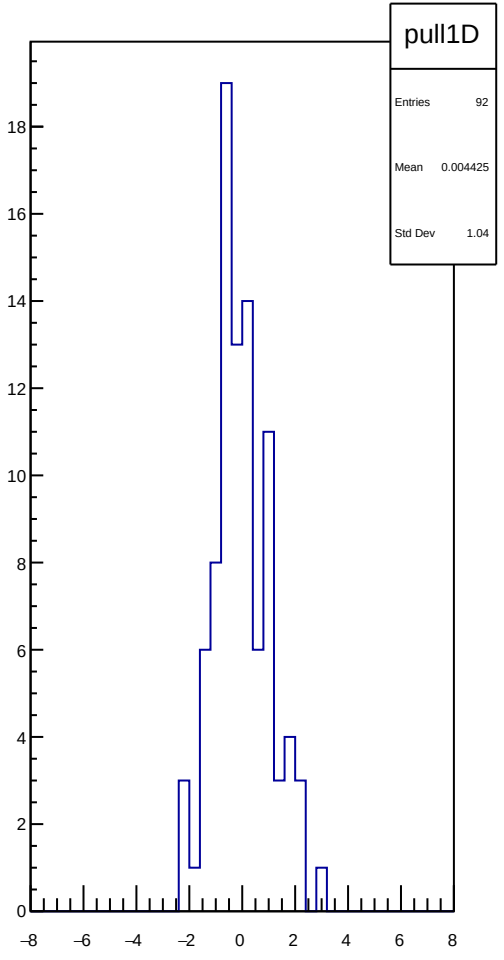

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 3216 / 91
p0 5216 ± 3.91
6400
6200
6000
5800
5600
5400
5200
5000
4800
4600

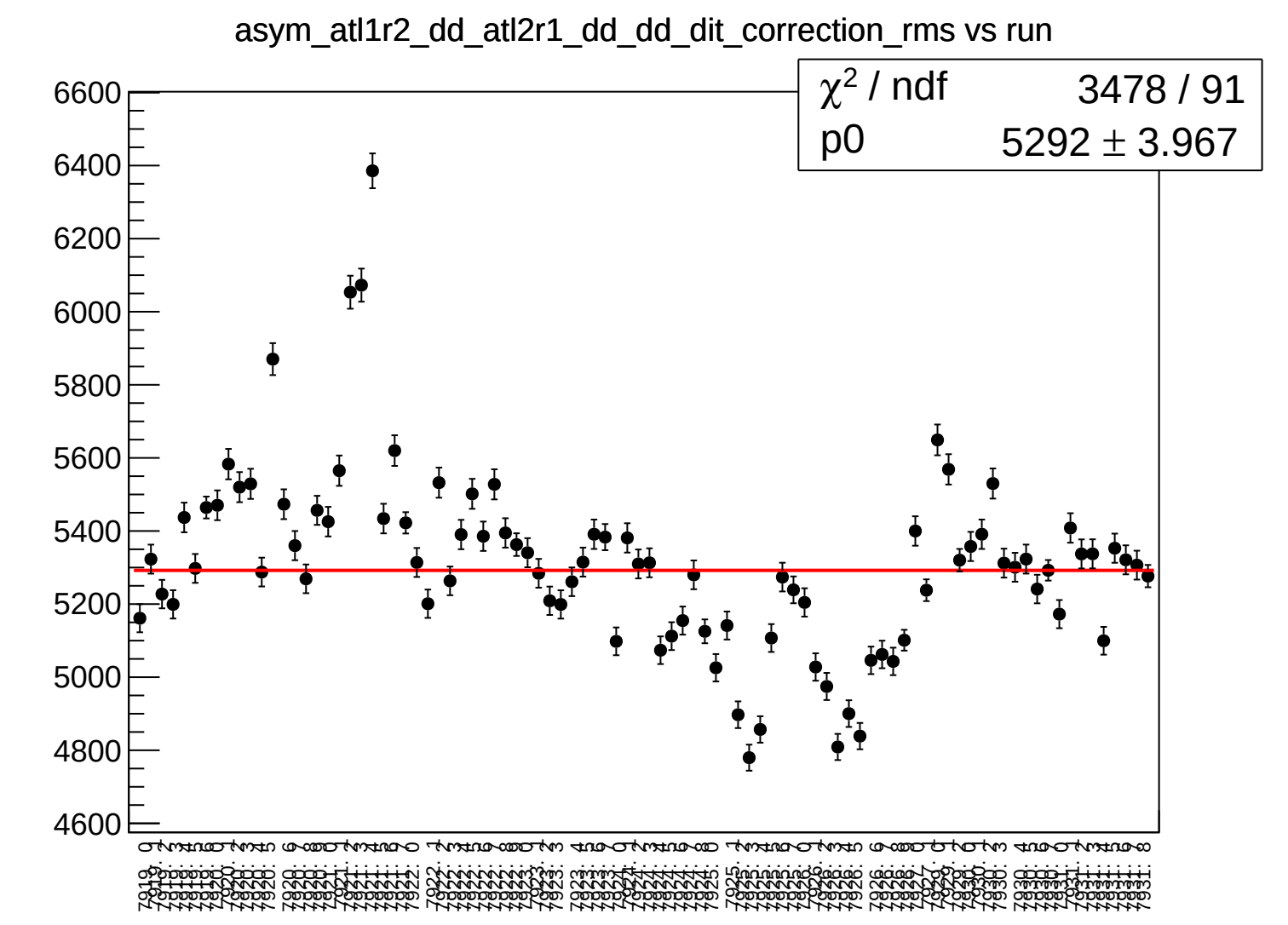

dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 81.6 / 91
p0 484.2 ± 1364
pull
Entries 92
Mean −1067
Std Dev 0

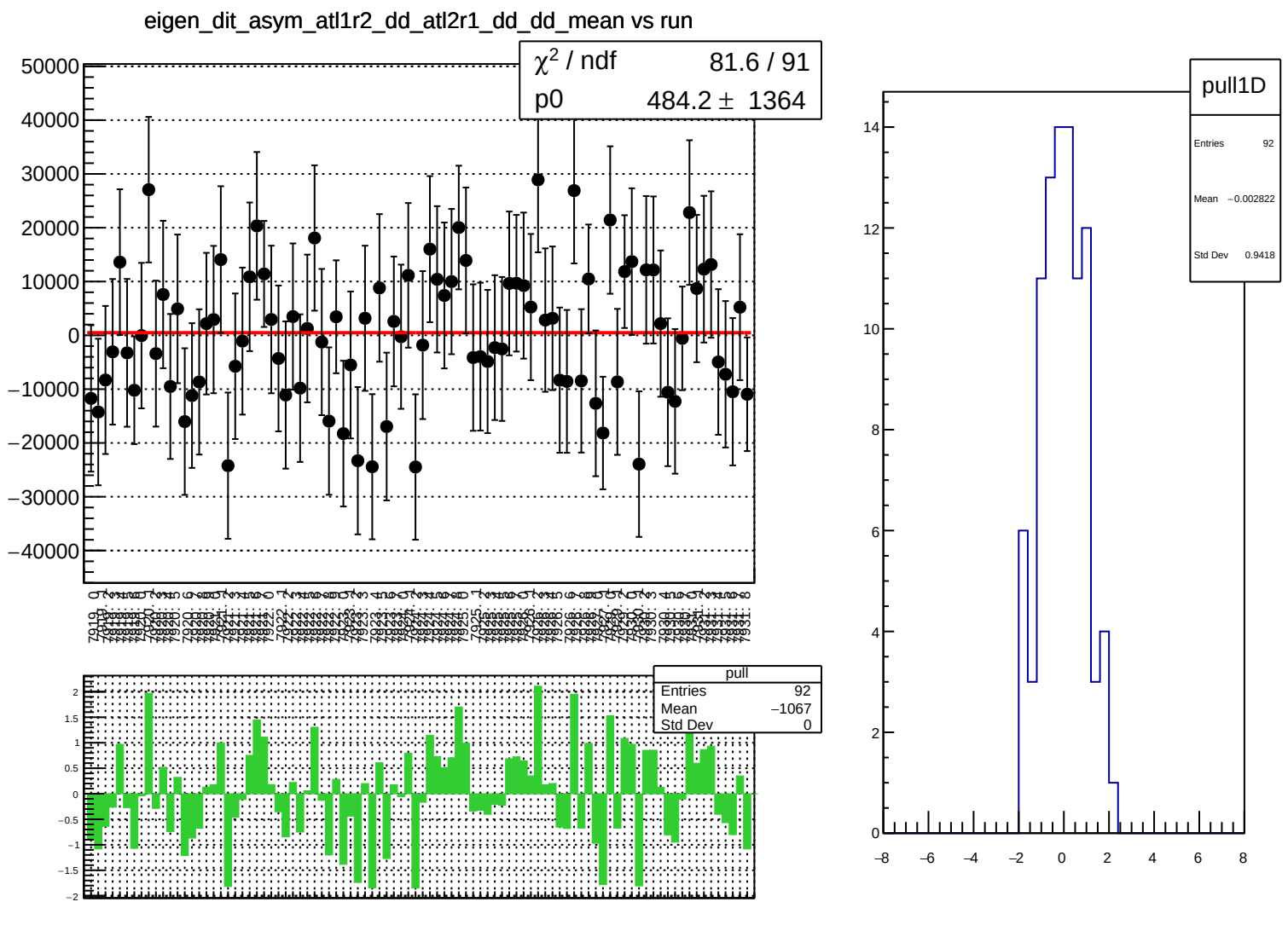

pull1D
Entries 92
Mean −0.002822
Std Dev 0.9418

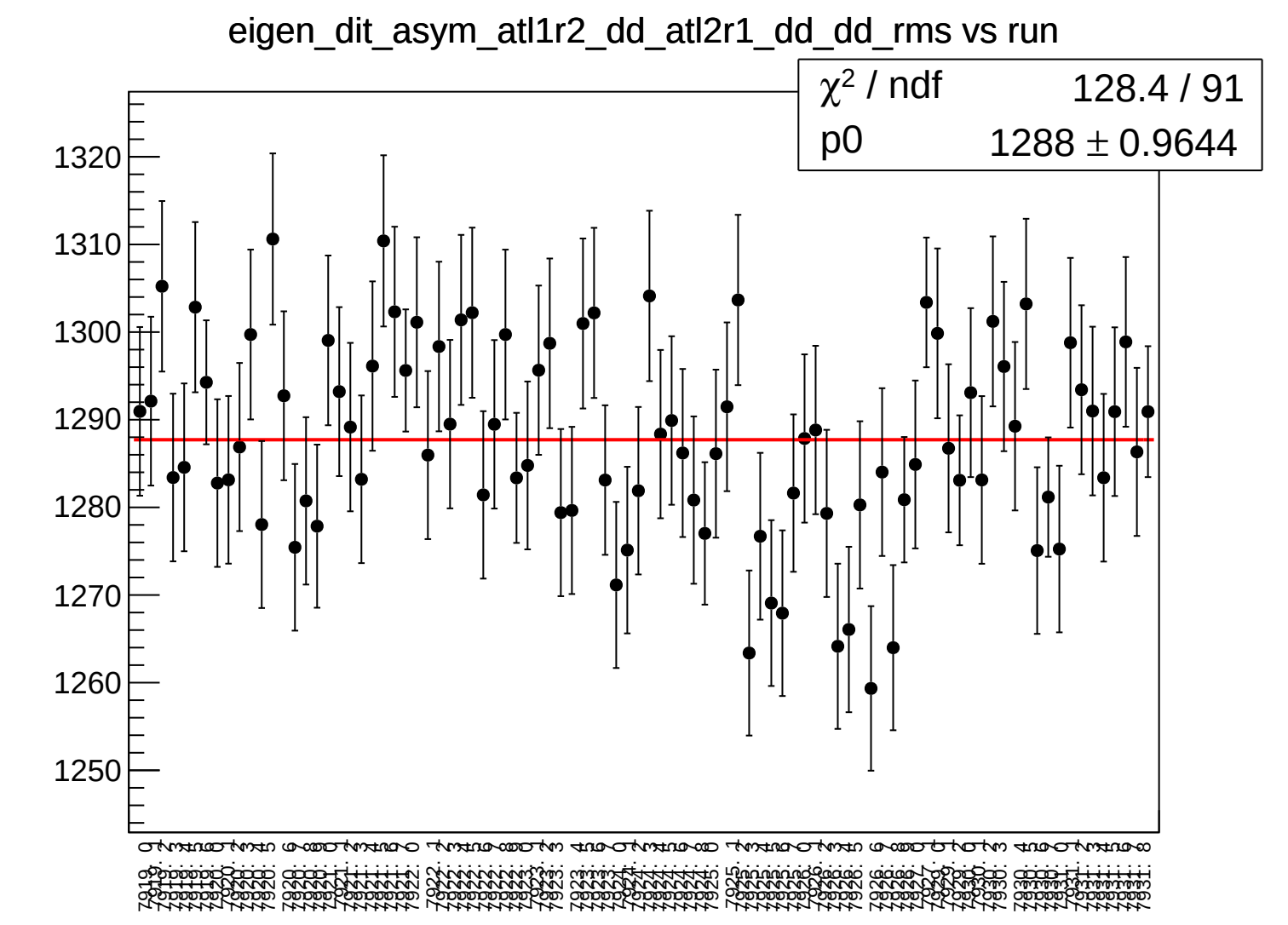

dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 128.4 / 91
p0 1288 ± 0.9644
1320
1310
1300
1290
1280
1270
1260
1250

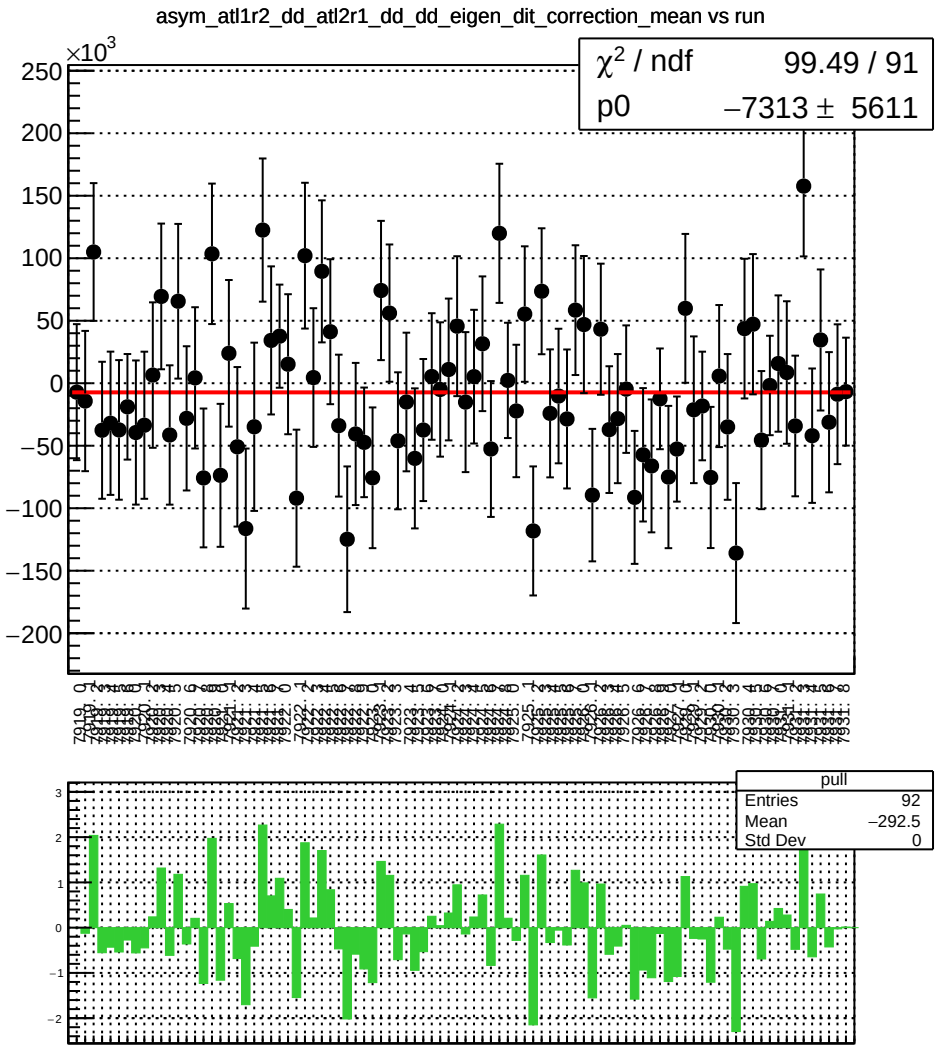

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_mean vs run
×10^3
χ² / ndf 99.49 / 91
p0 −7313 ± 5611
pull
Entries 92
Mean −292.5
Std Dev 0

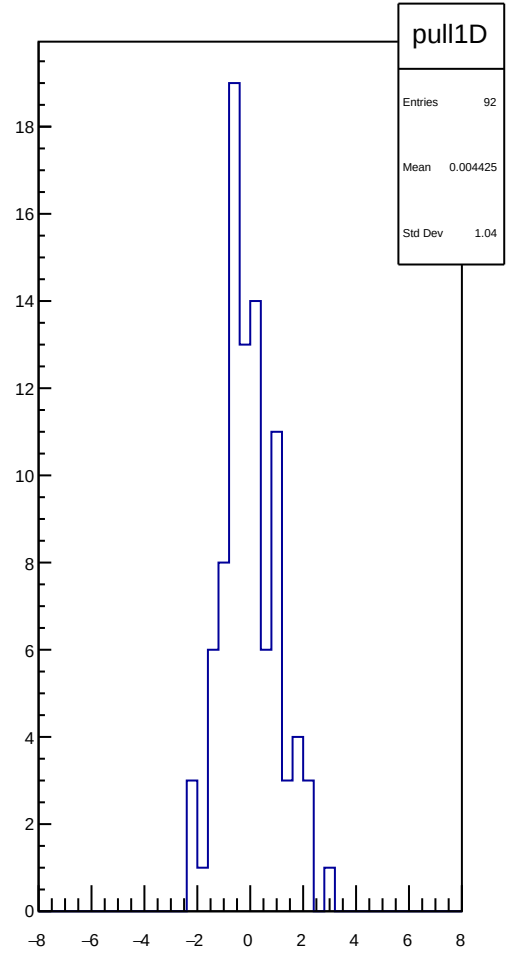

pull1D
Entries 92
Mean 0.004425
Std Dev 1.04

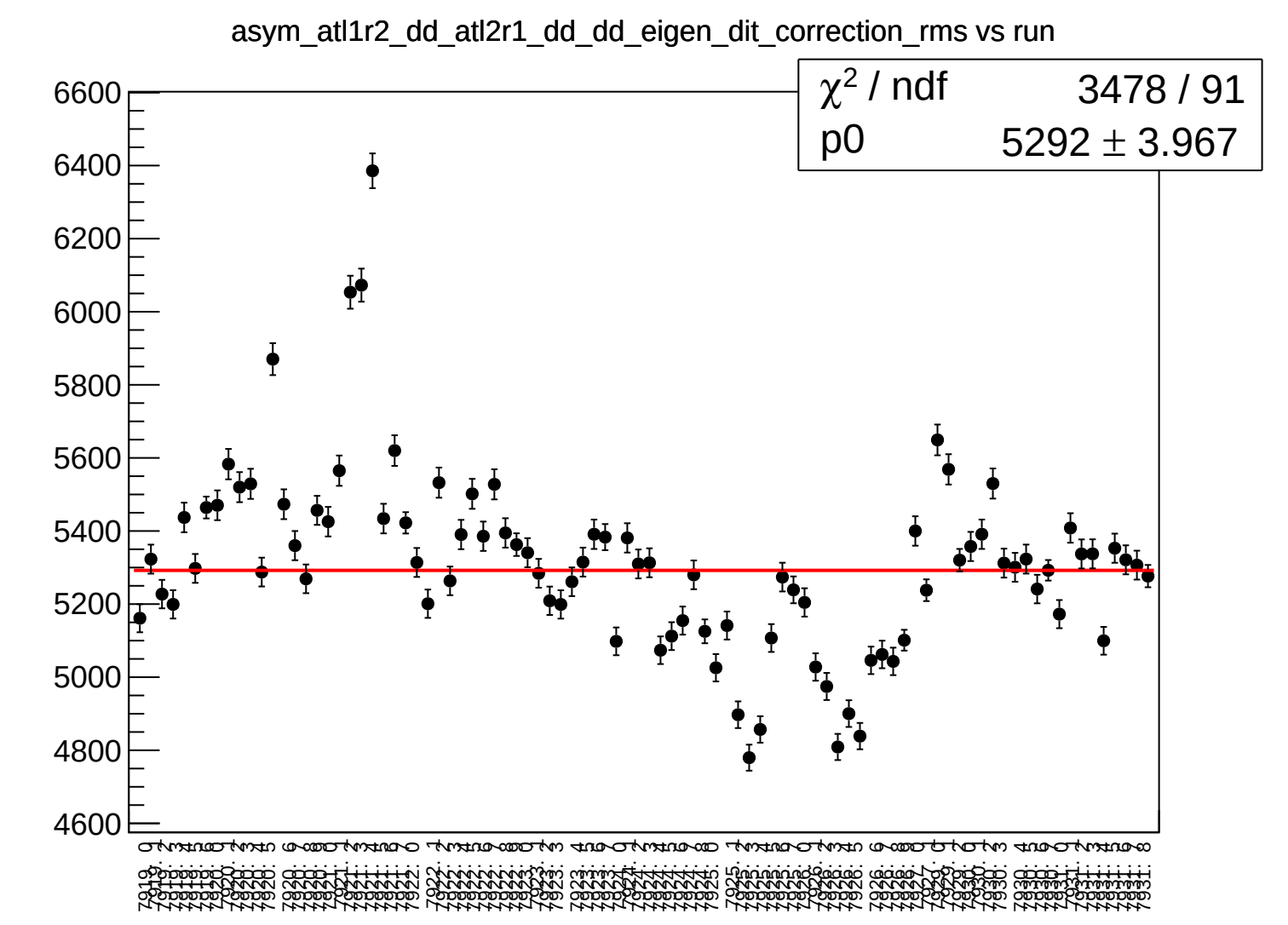

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_rms vs run
χ² / ndf 3478 / 91
p0 5292 ± 3.967
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800
4600

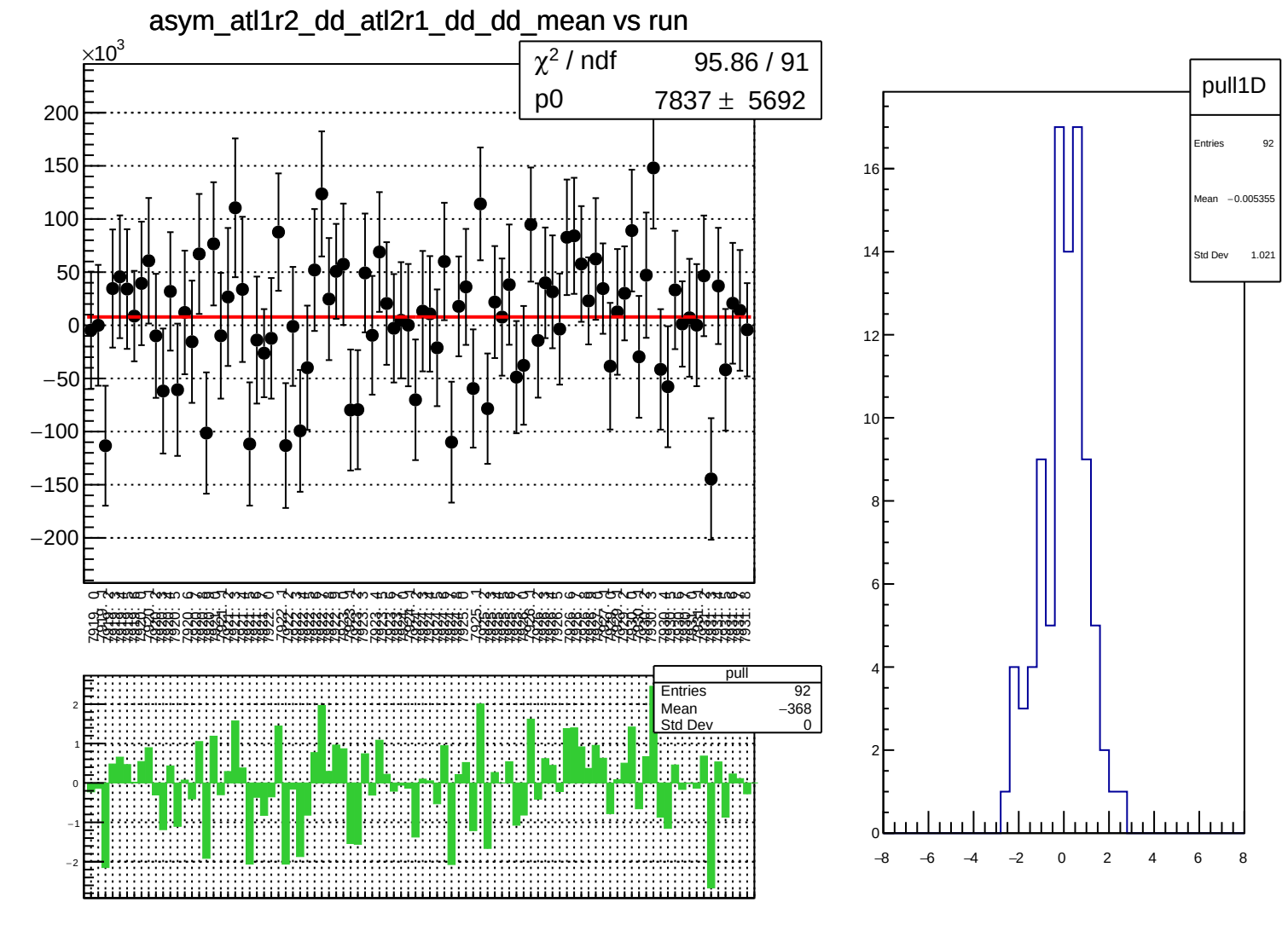

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 81.6 / 91
p0 484.2 ± 1364
pull
Entries 92
Mean −1067
Std Dev 0
pull1D
Entries 92
Mean −0.002822
Std Dev 0.9418

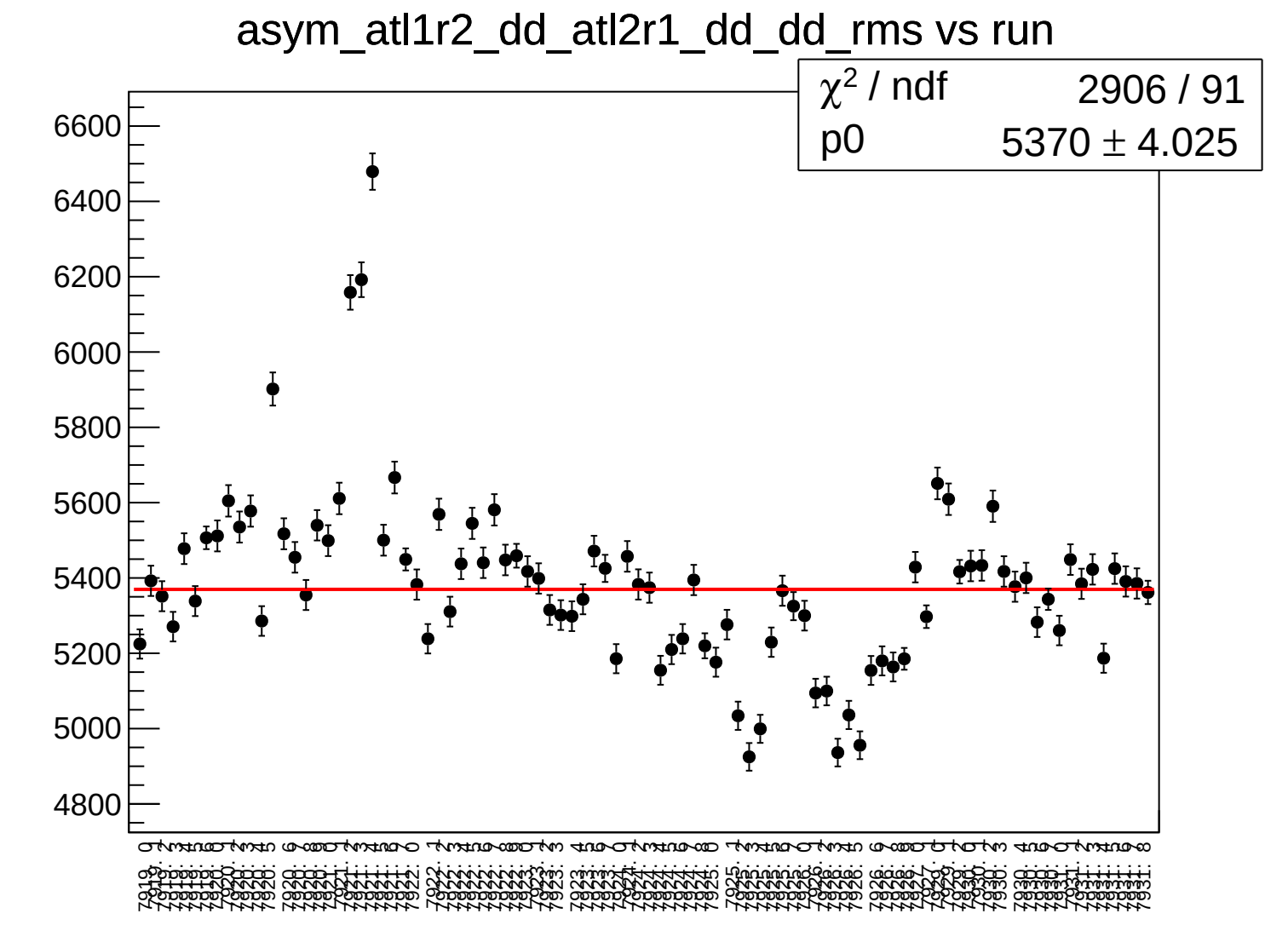

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 128.4 / 91
p0 1288 ± 0.9644
1320
1310
1300
1290
1280
1270
1260
1250

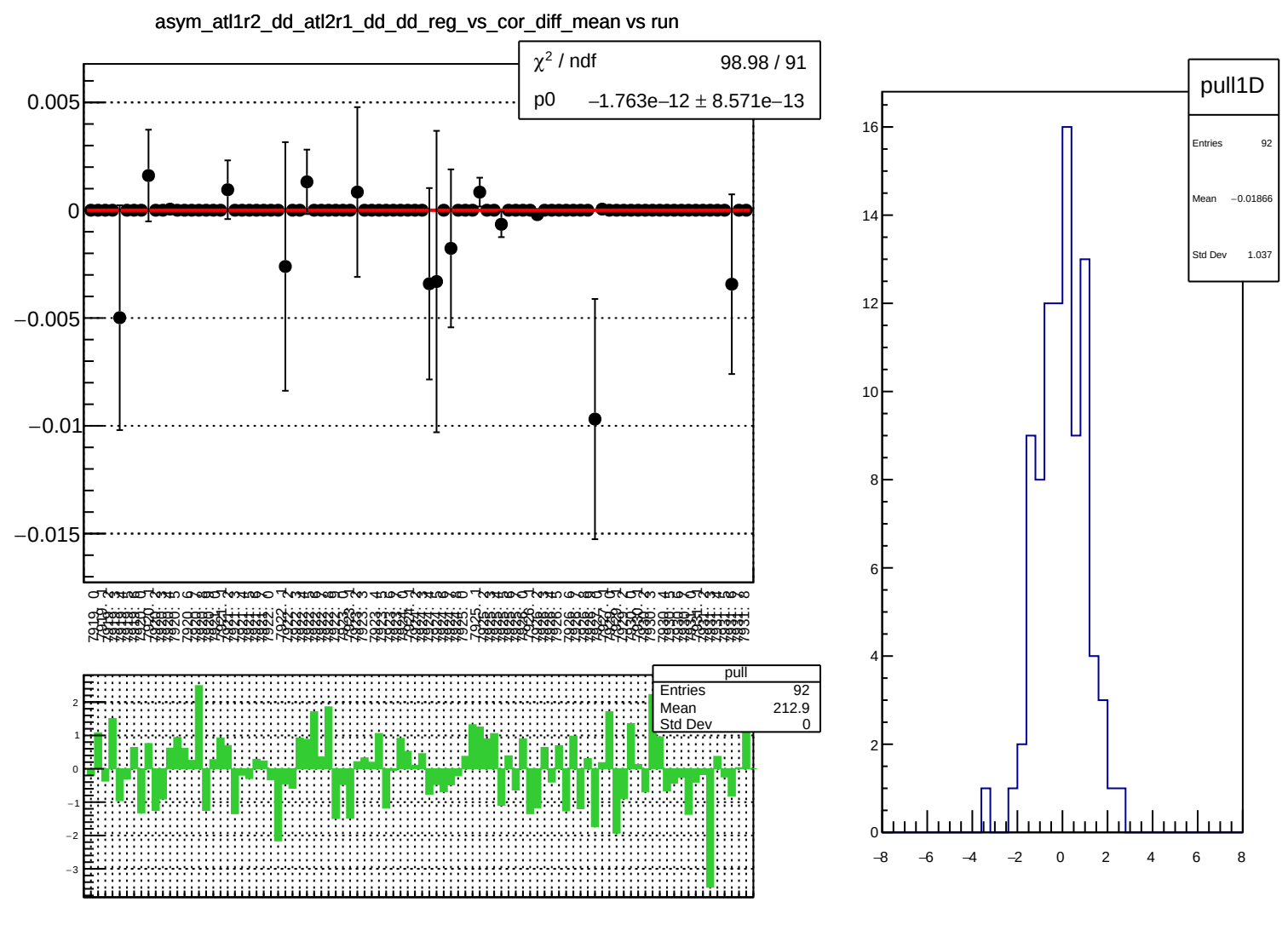

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 99.49 / 91
p0 −7313 ± 5611
pull
Entries 92
Mean −292.5
Std Dev 0

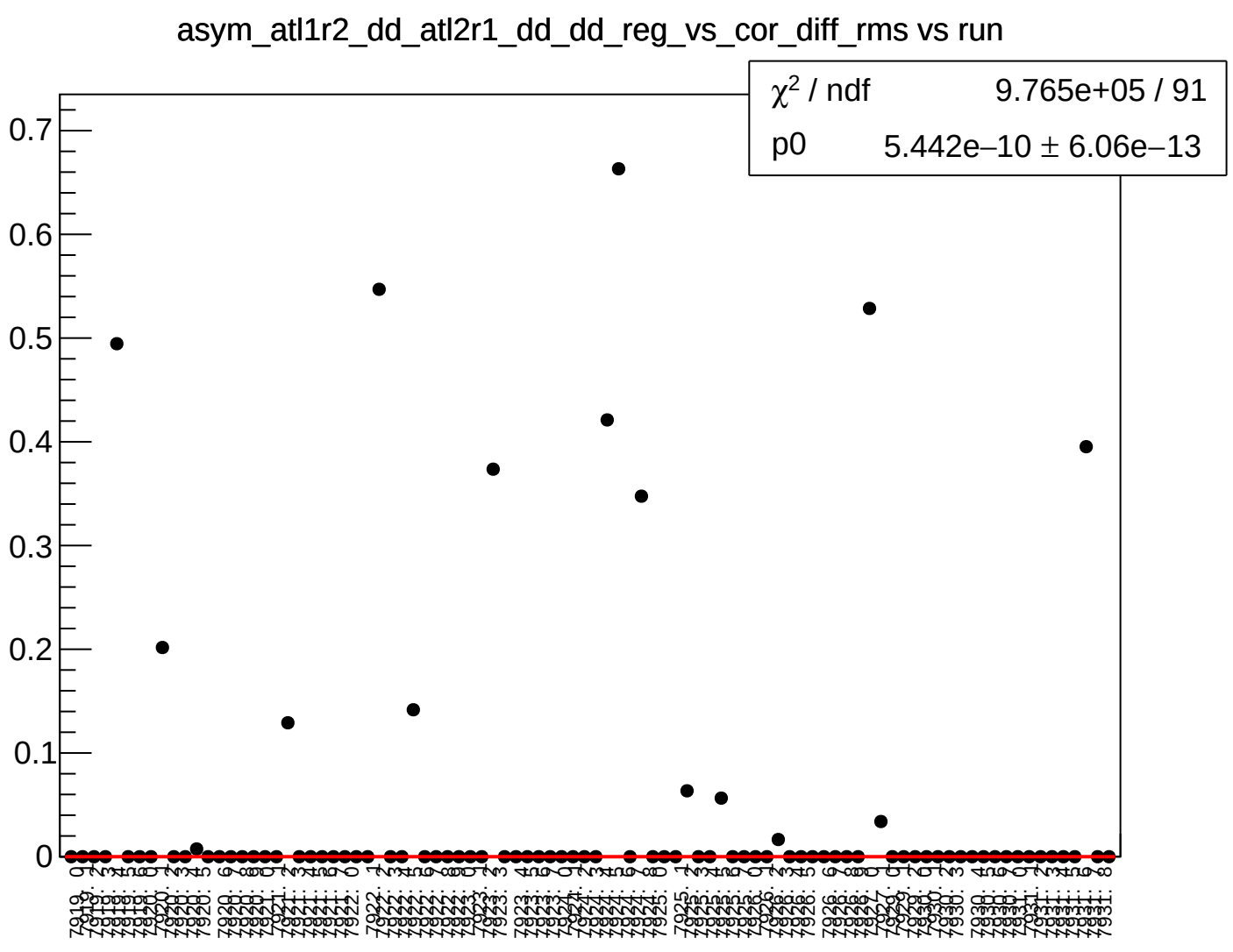

pull1D
Entries 92
Mean 0.004425
Std Dev 1.04

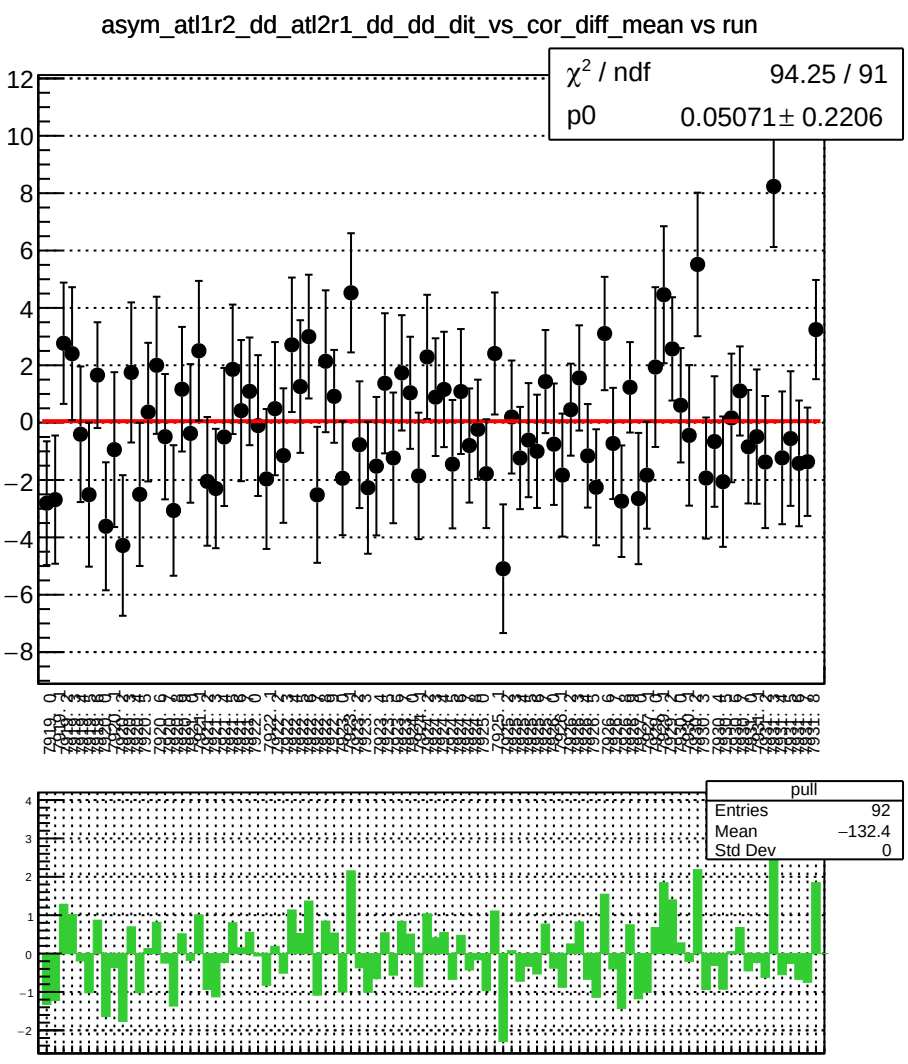

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 3478 / 91
p0 5292 ± 3.967
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800
4600

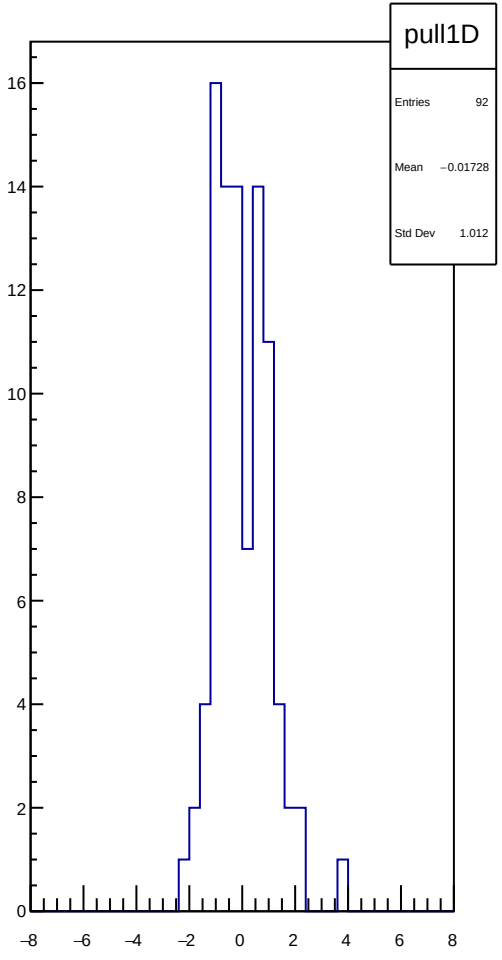

asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
×10^3
χ^2 / ndf 95.86 / 91
p0 7837 ± 5692
pull
Entries 92
Mean −368
Std Dev 0
pull1D
Entries 92
Mean −0.005355
Std Dev 1.021

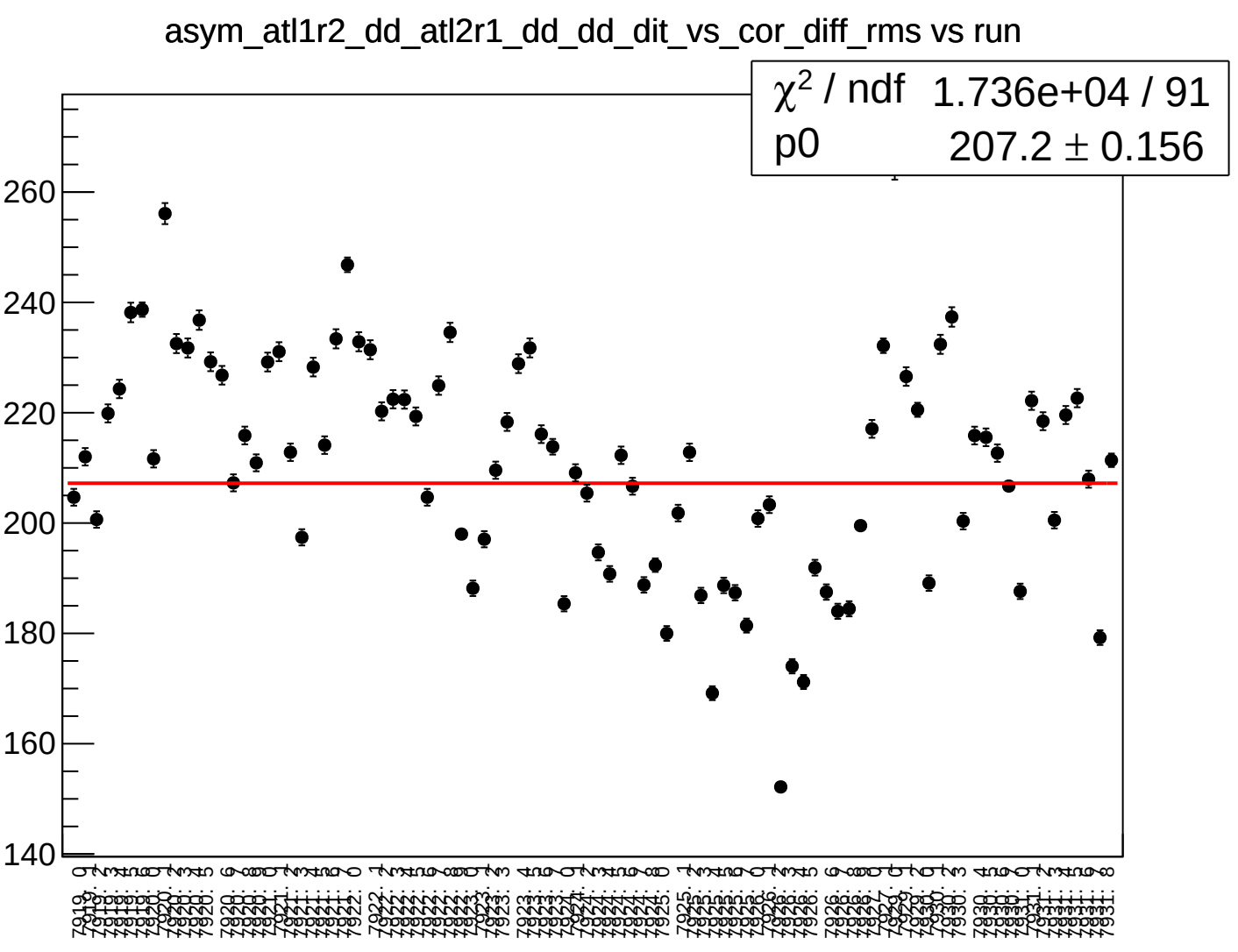

asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 2906 / 91
p0 5370 ± 4.025
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800

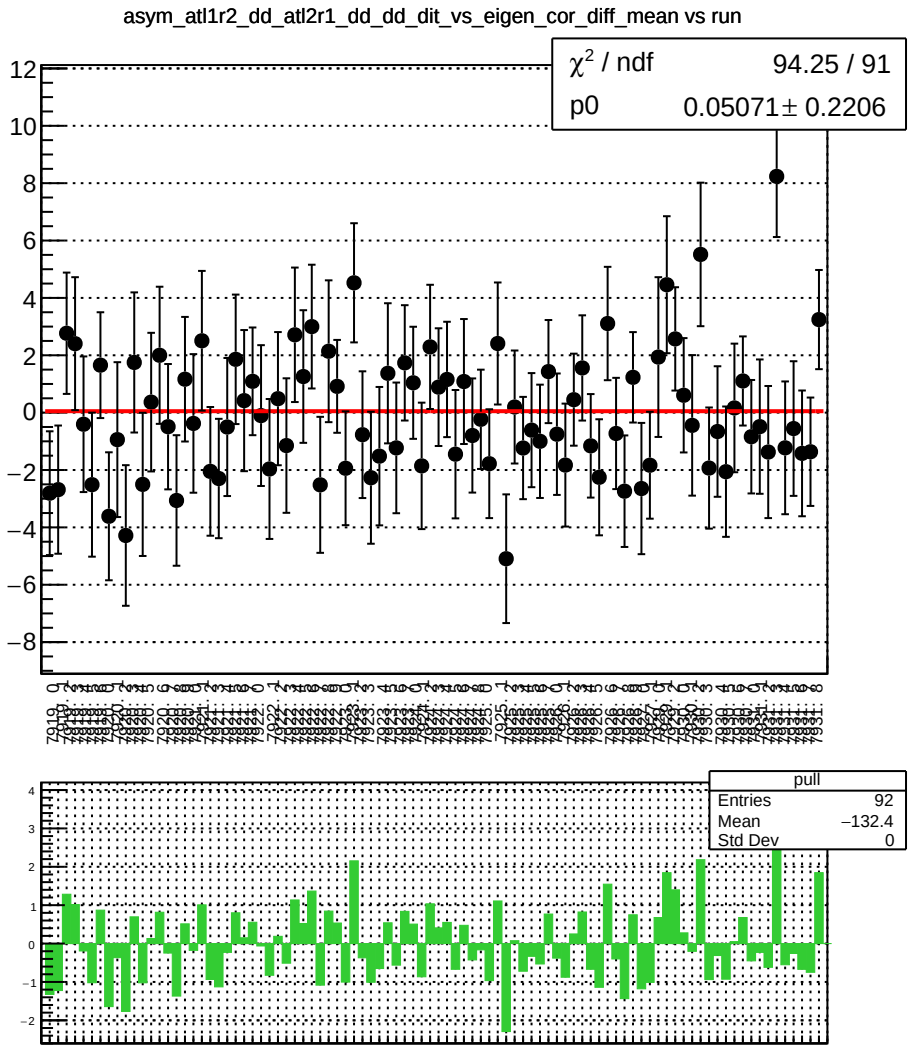

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 98.98 / 91
p0 −1.763e−12 ± 8.571e−13
0.005
0
−0.005
−0.01
−0.015
pull
Entries 92
Mean 212.9
Std Dev 0
pull1D
Entries 92
Mean −0.01866
Std Dev 1.037

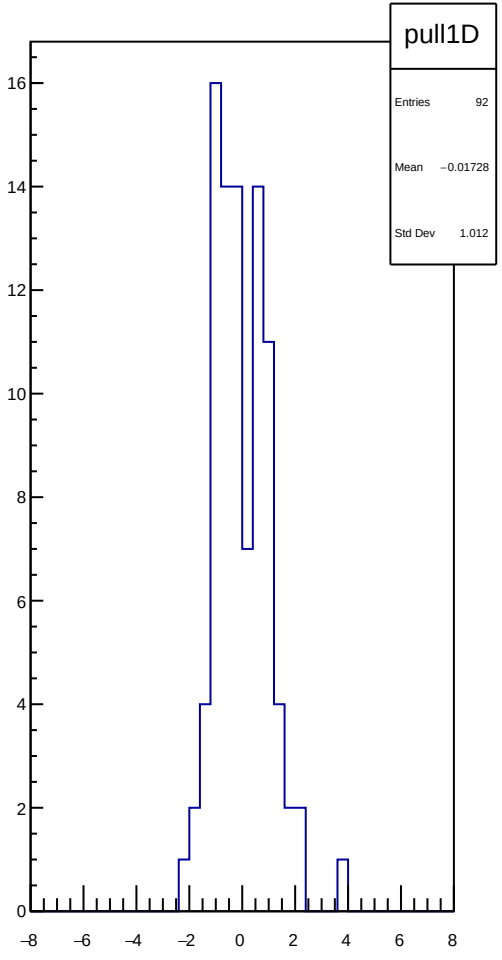

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.765e+05 / 91
p0 5.442e−10 ± 6.06e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

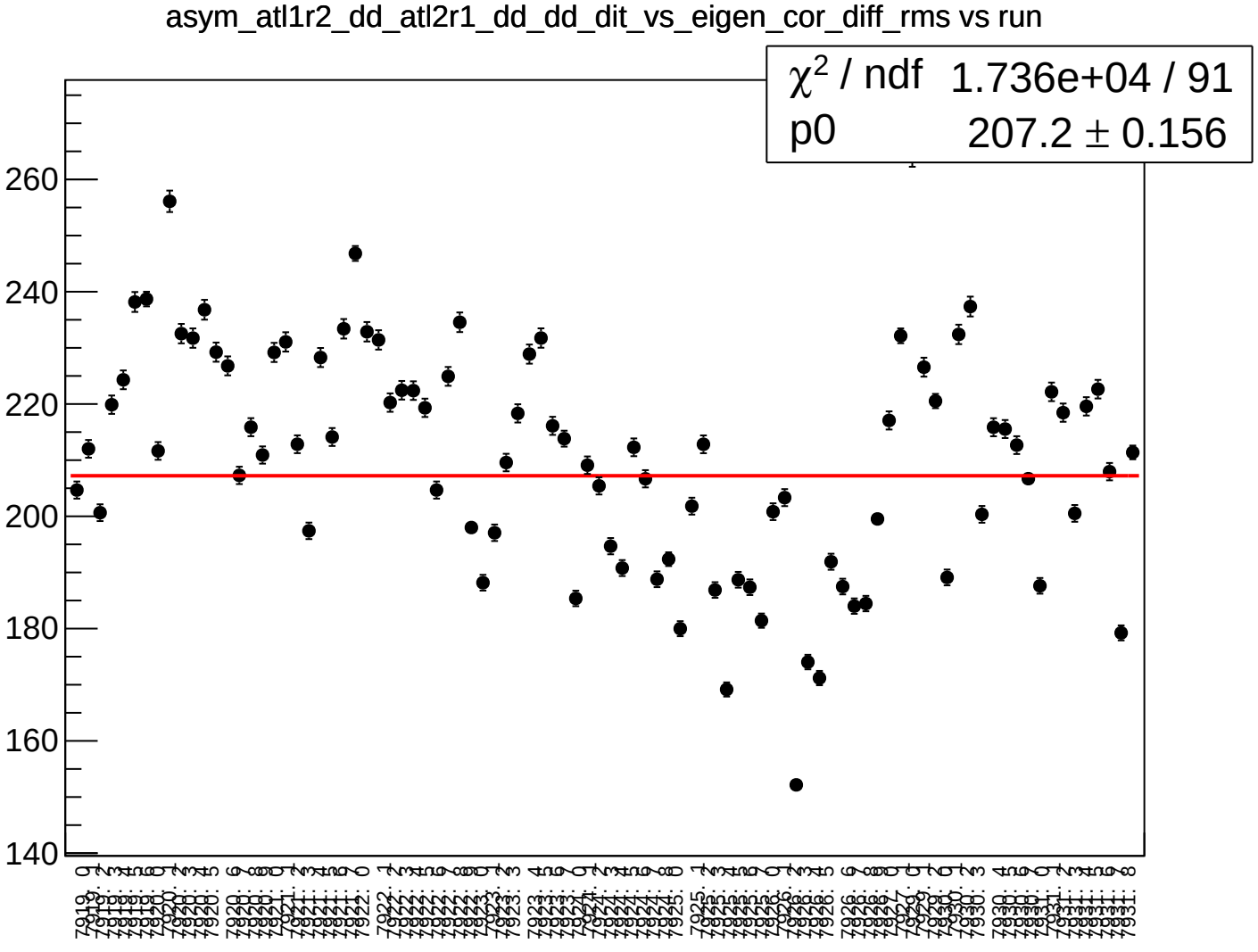

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 94.25 / 91
p0 0.05071 ± 0.2206
pull
Entries 92
Mean −132.4
Std Dev 0

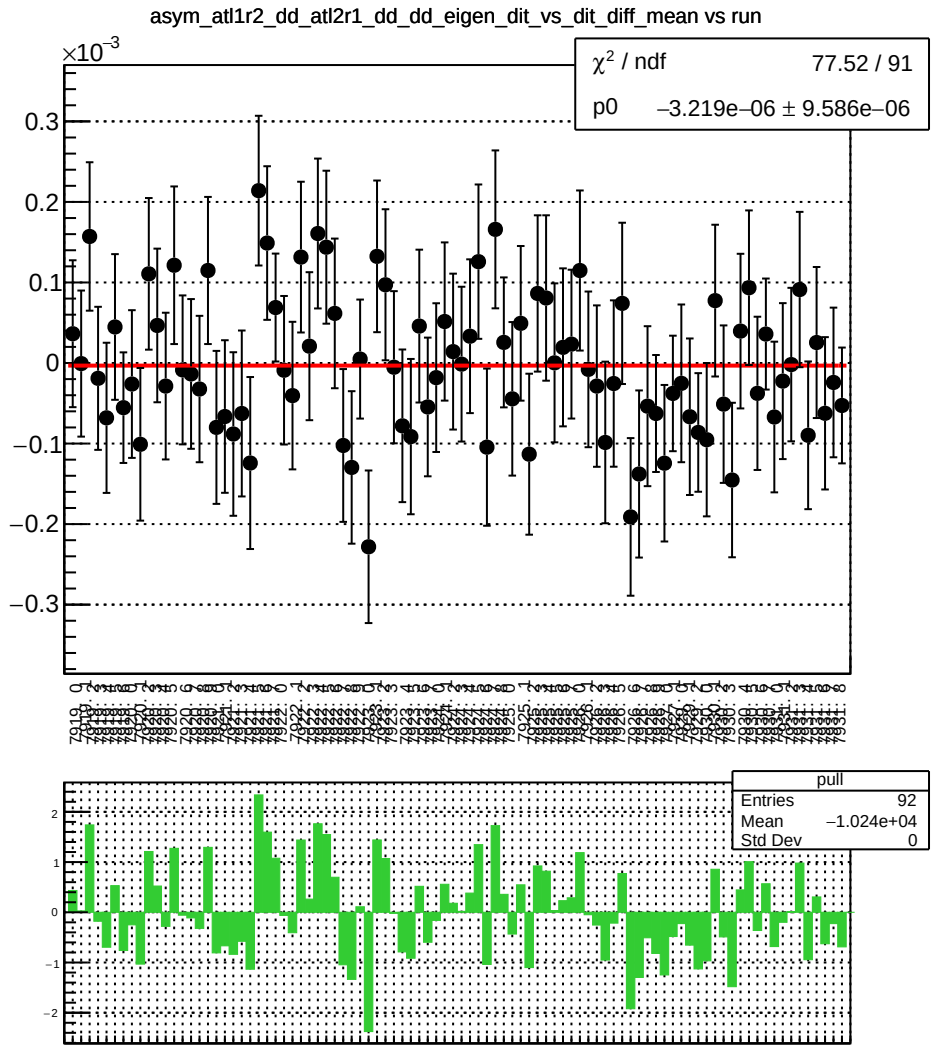

pull1D
Entries 92
Mean −0.01728
Std Dev 1.012

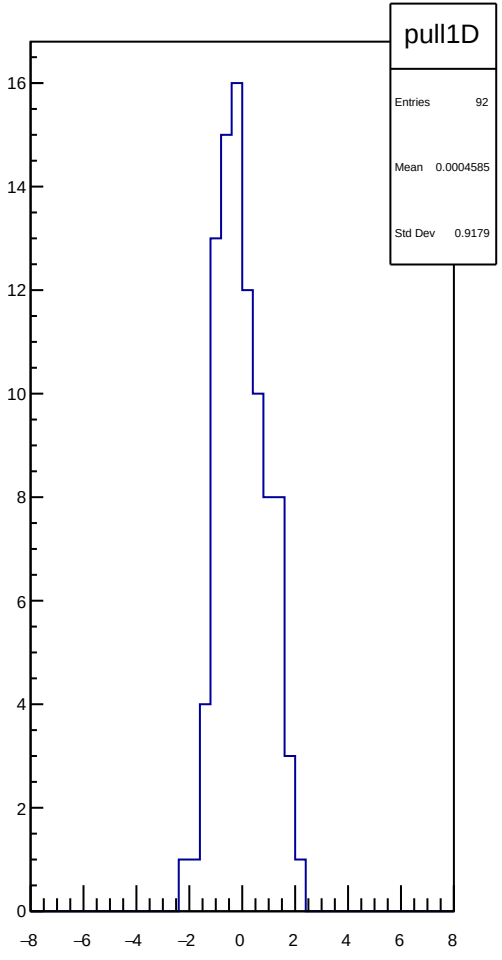

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.736e+04 / 91
p0 207.2 ± 0.156
260
240
220
200
180
160
140

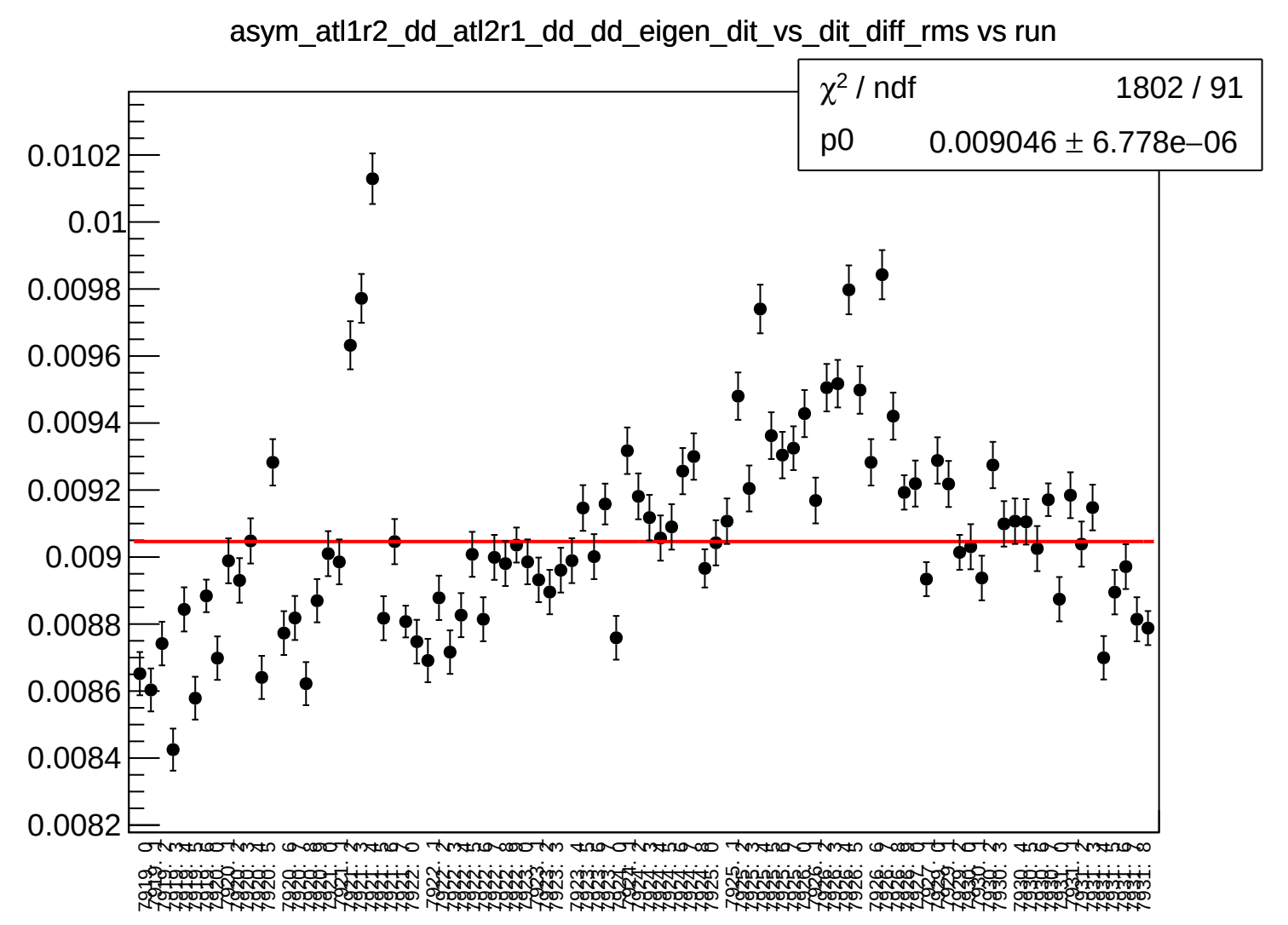

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.25 / 91
p0 0.05071 ± 0.2206
pull
Entries 92
Mean −132.4
Std Dev 0

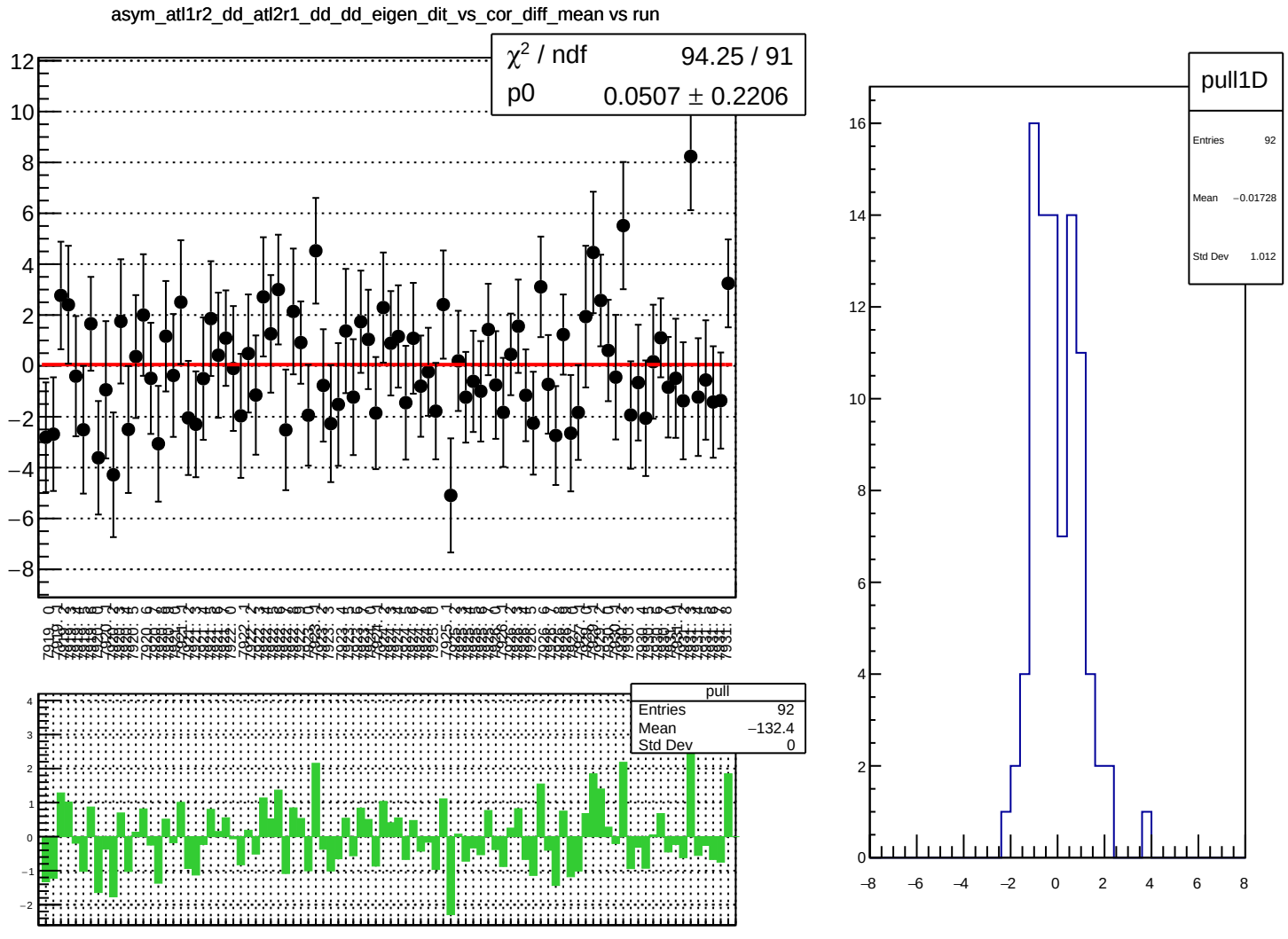

pull1D
Entries 92
Mean −0.01728
Std Dev 1.012

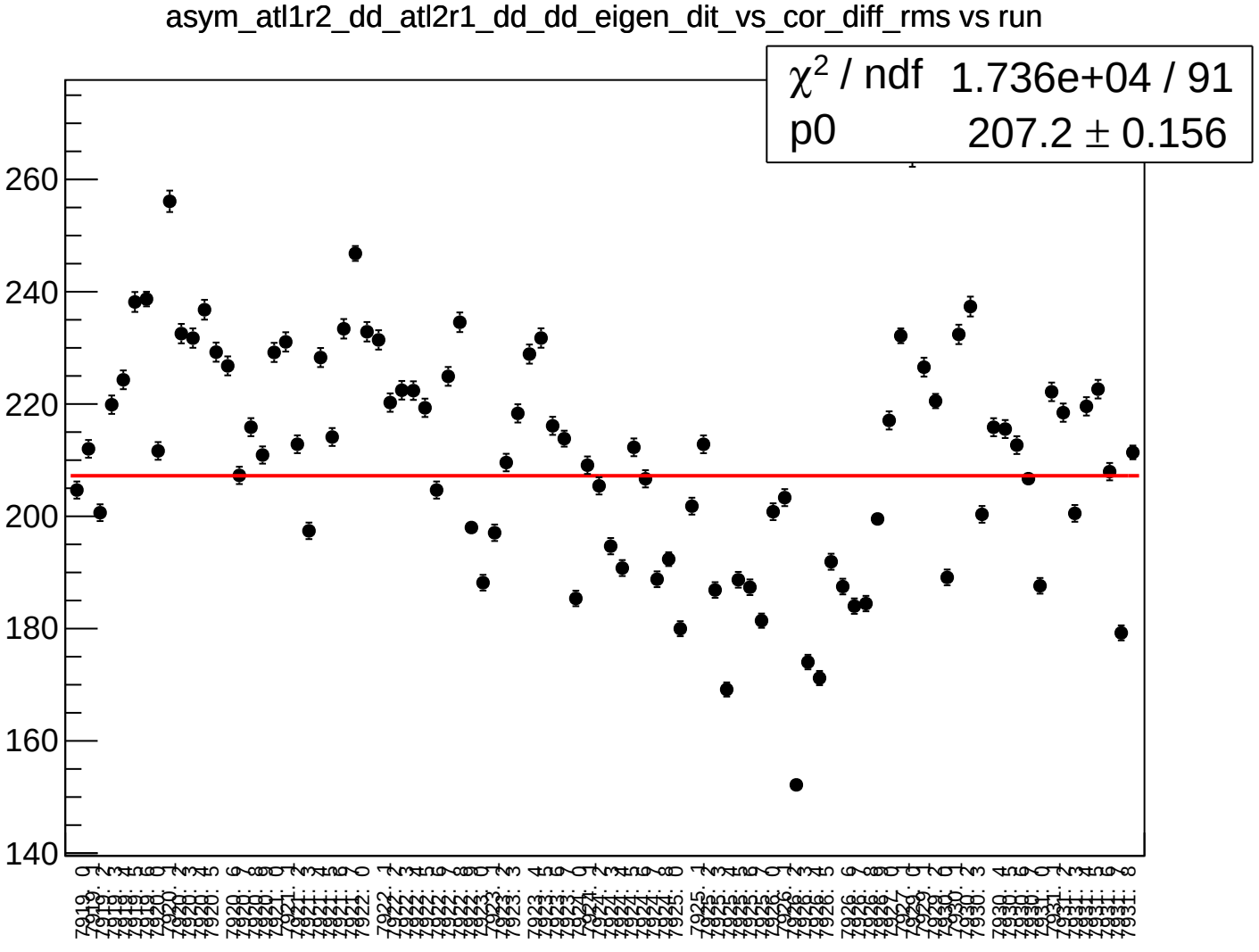

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.736e+04 / 91
p0 207.2 ± 0.156
260
240
220
200
180
160
140

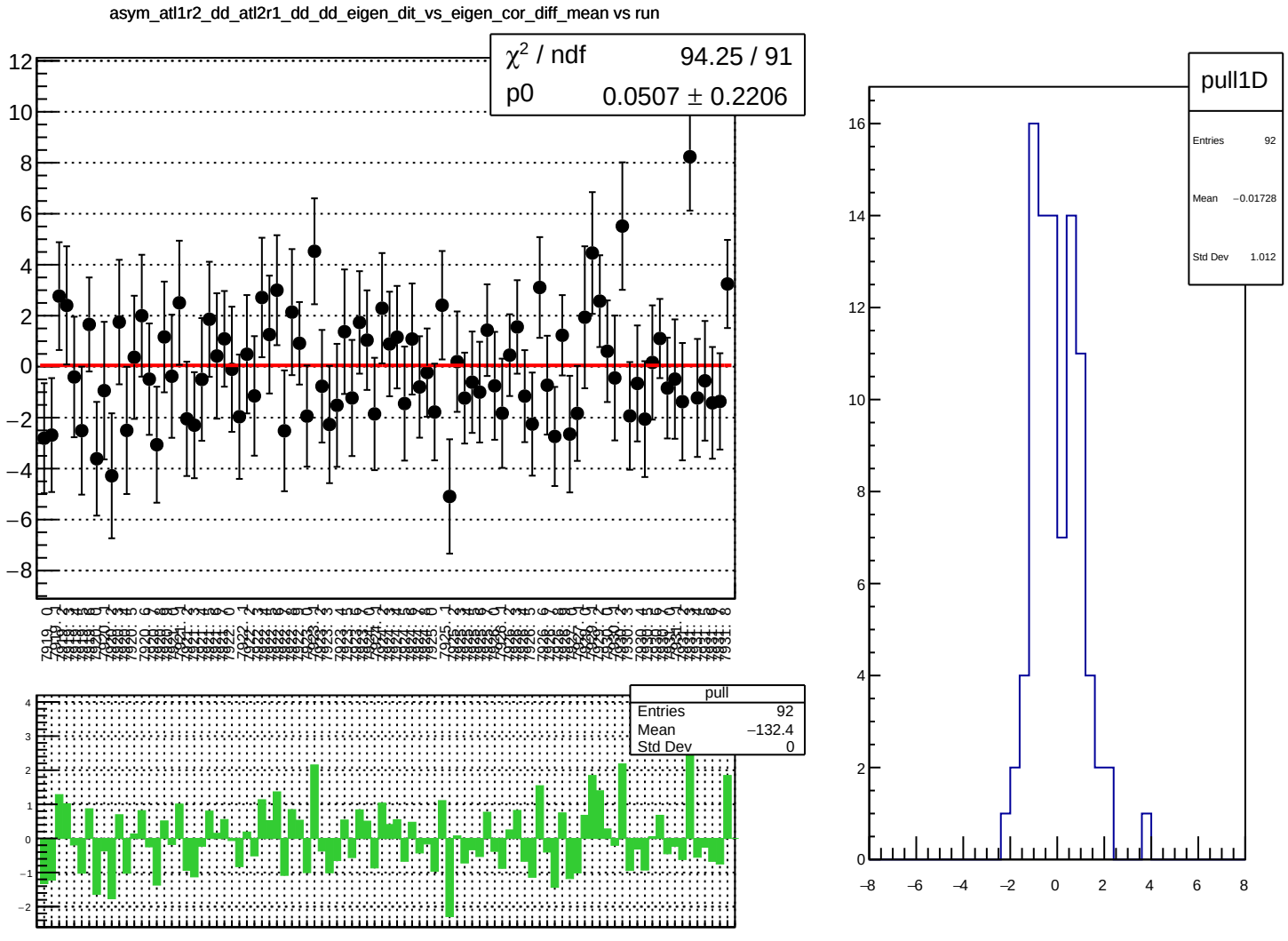

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 77.52 / 91
p0 −3.219e−06 ± 9.586e−06
pull
Entries 92
Mean −1.024e+04
Std Dev 0

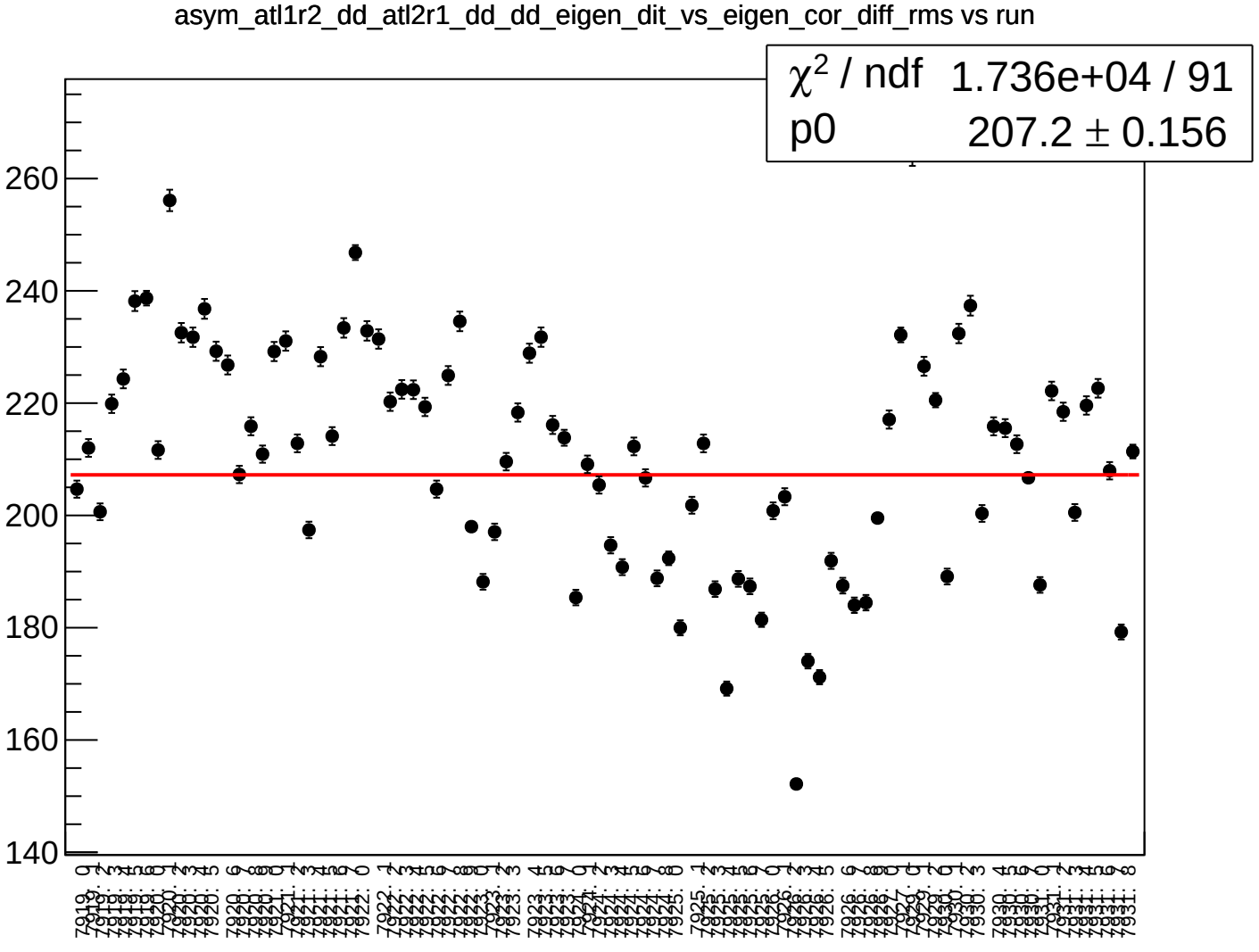

pull1D
Entries 92
Mean 0.0004585
Std Dev 0.9179

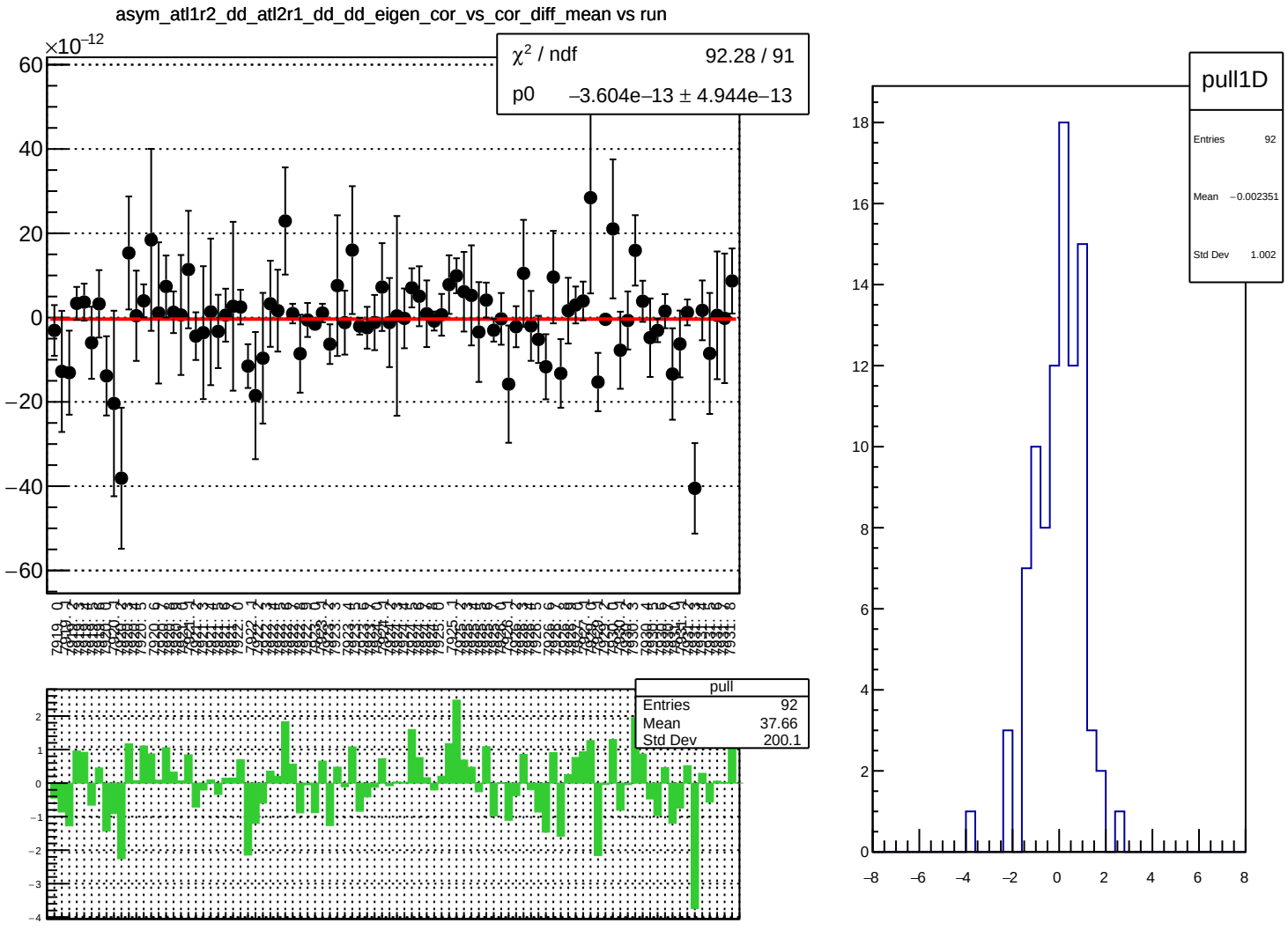

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1802 / 91
p0 0.009046 ± 6.778e−06
0.0102
0.01
0.0098
0.0096
0.0094
0.0092
0.009
0.0088
0.0086
0.0084
0.0082

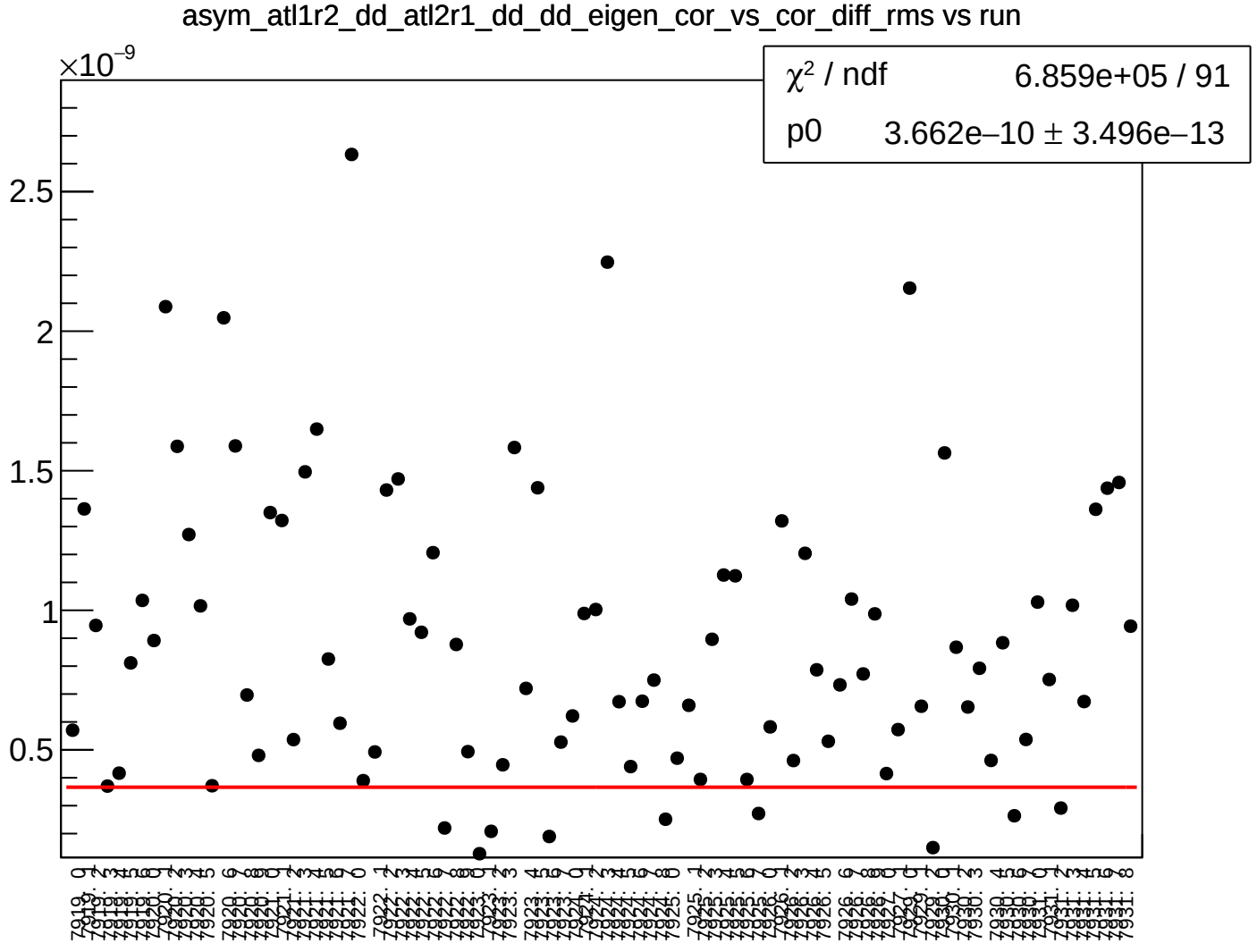

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.25 / 91
p0 0.0507 ± 0.2206
pull
Entries 92
Mean −132.4
Std Dev 0
pull1D
Entries 92
Mean −0.01728
Std Dev 1.012

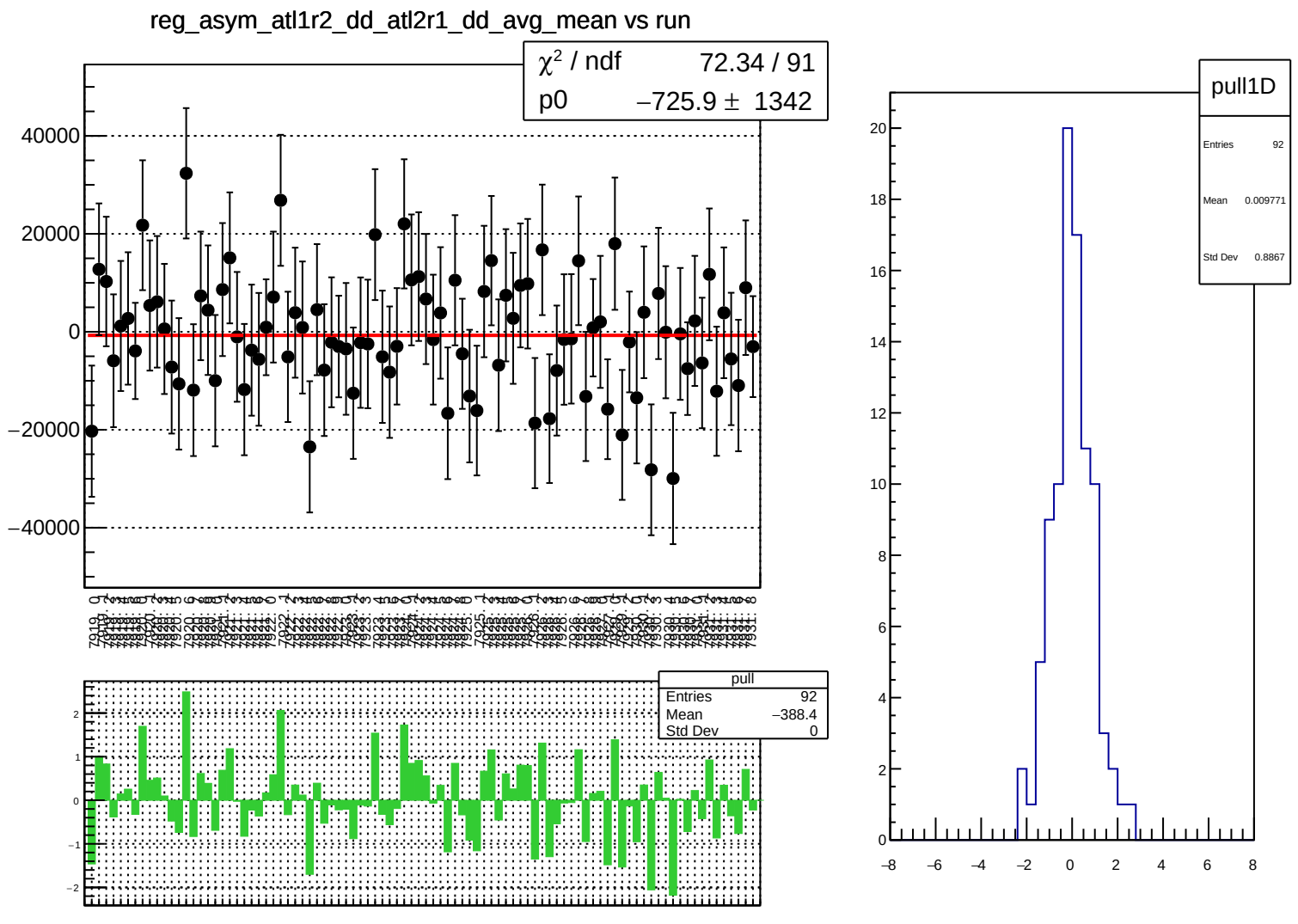

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.736e+04 / 91
p0 207.2 ± 0.156
260
240
220
200
180
160
140

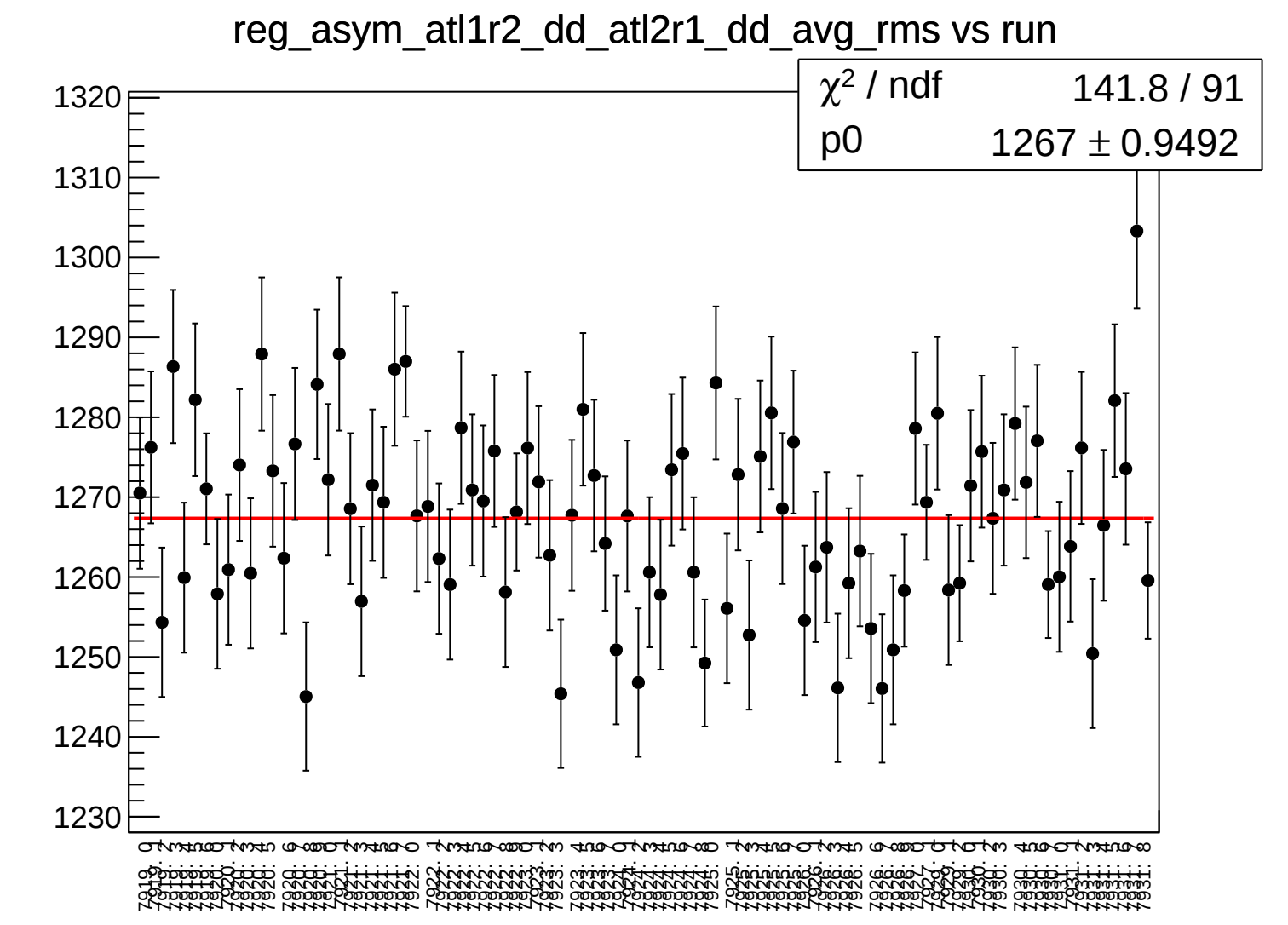

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.25 / 91
p0 0.0507 ± 0.2206
pull
Entries 92
Mean −132.4
Std Dev 0
pull1D
Entries 92
Mean −0.01728
Std Dev 1.012

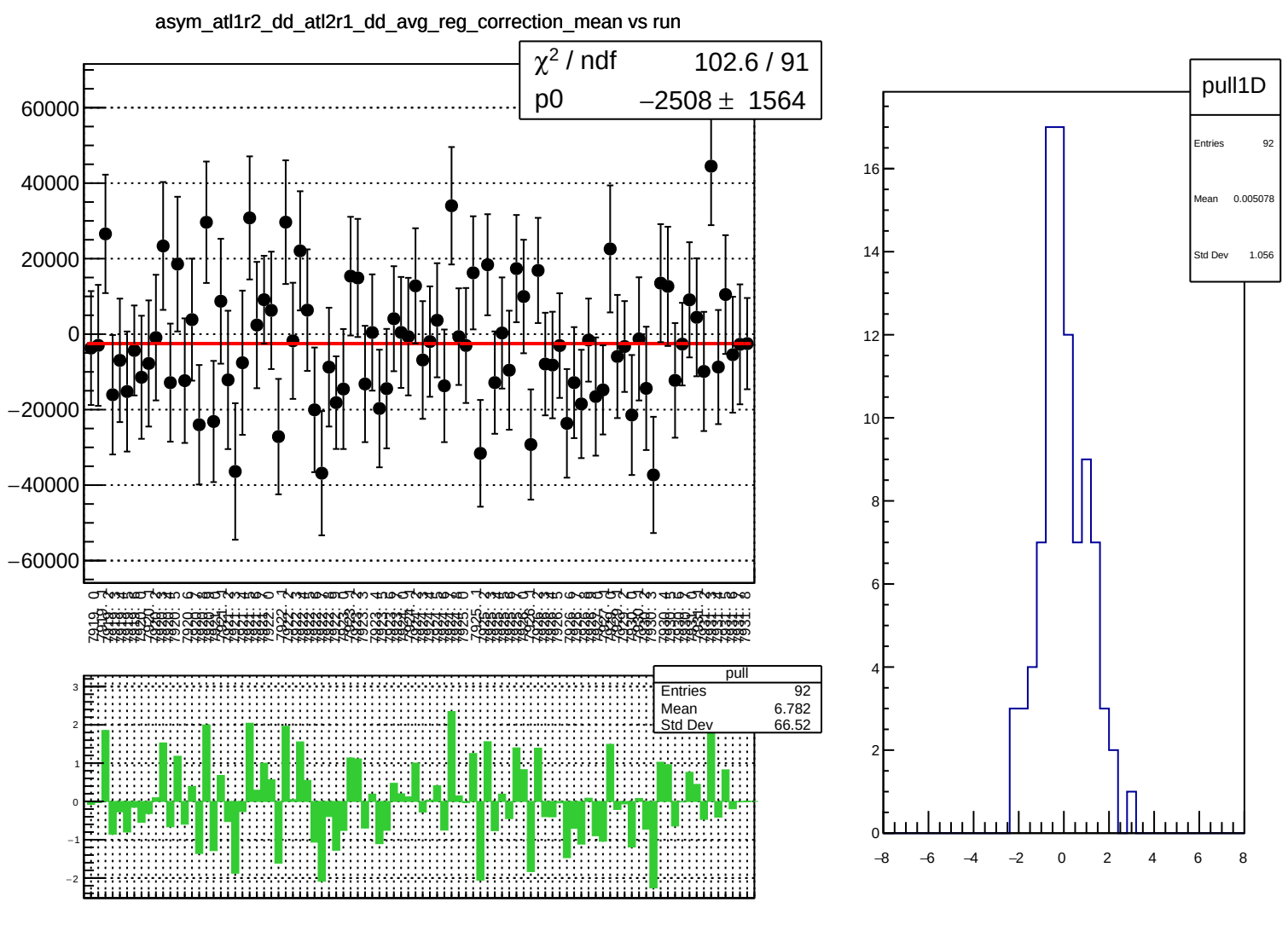

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.736e+04 / 91
p0 207.2 ± 0.156
260
240
220
200
180
160
140

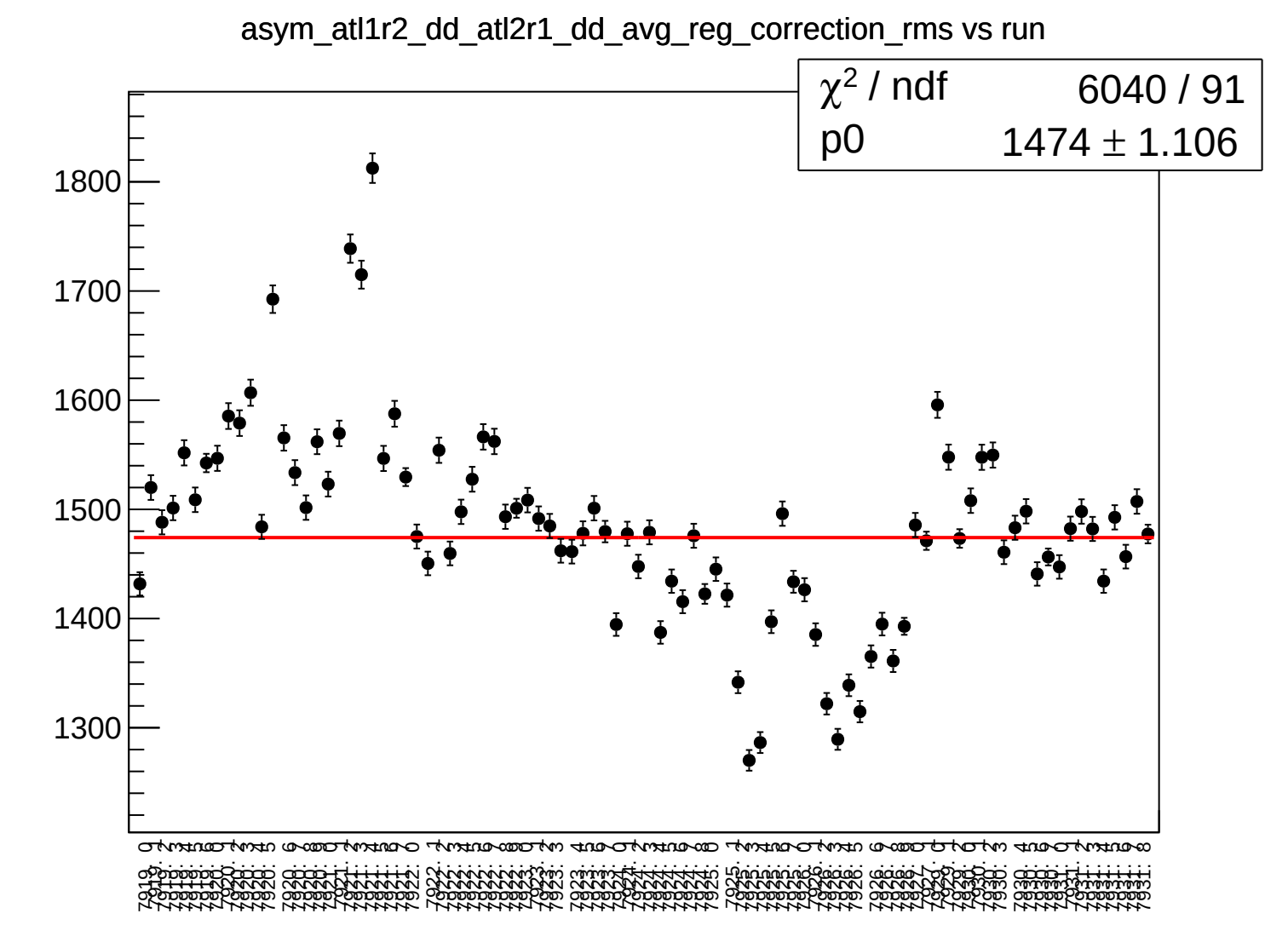

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.28 / 91
p0 −3.604e−13 ± 4.944e−13
pull
Entries 92
Mean 37.66
Std Dev 200.1
pull1D
Entries 92
Mean −0.002351
Std Dev 1.002

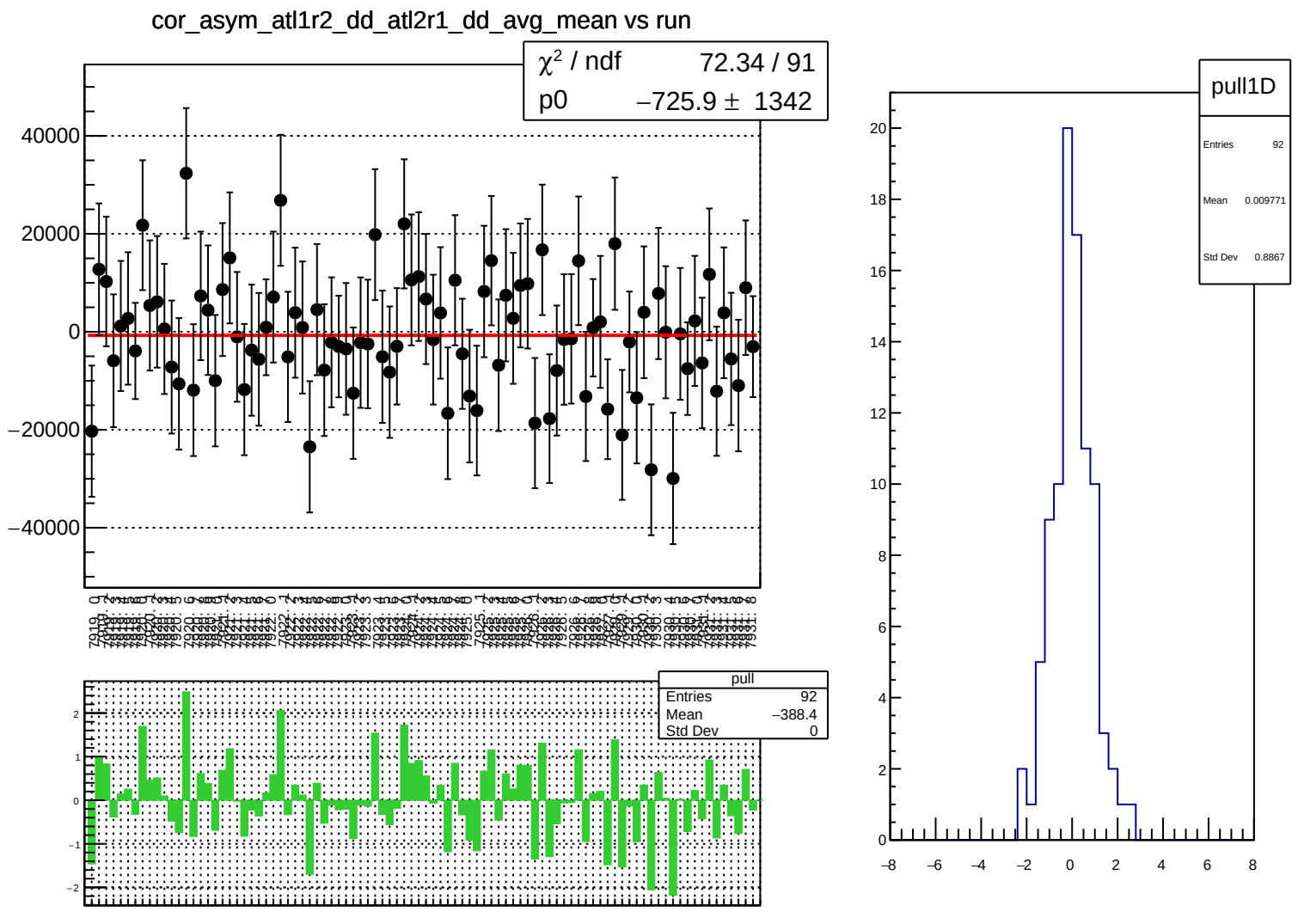

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.859e+05 / 91
p0 3.662e−10 ± 3.496e−13
2.5
2
1.5
1
0.5

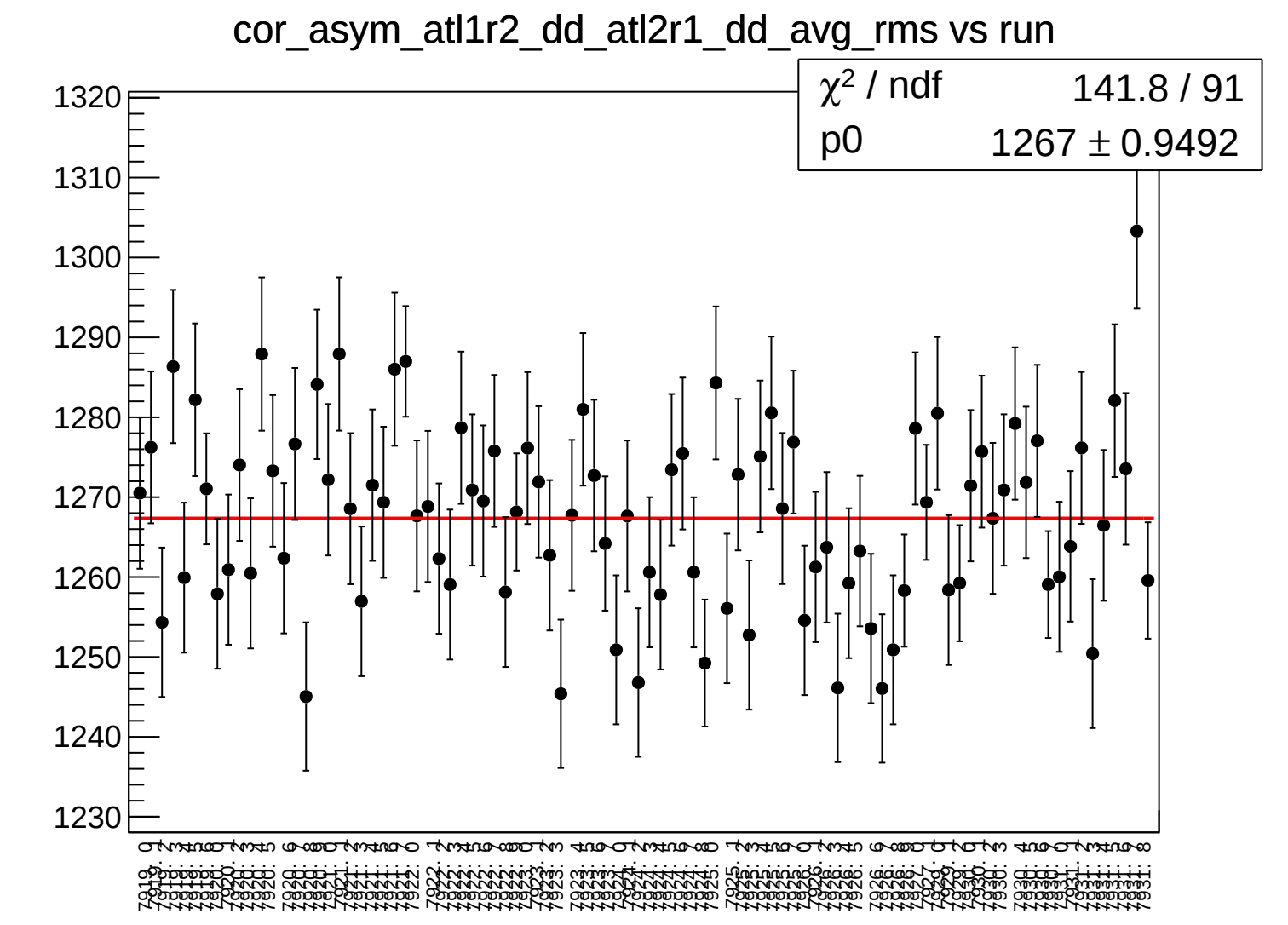

reg_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 72.34 / 91
p0 −725.9 ± 1342
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −388.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.009771
Std Dev 0.8867
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

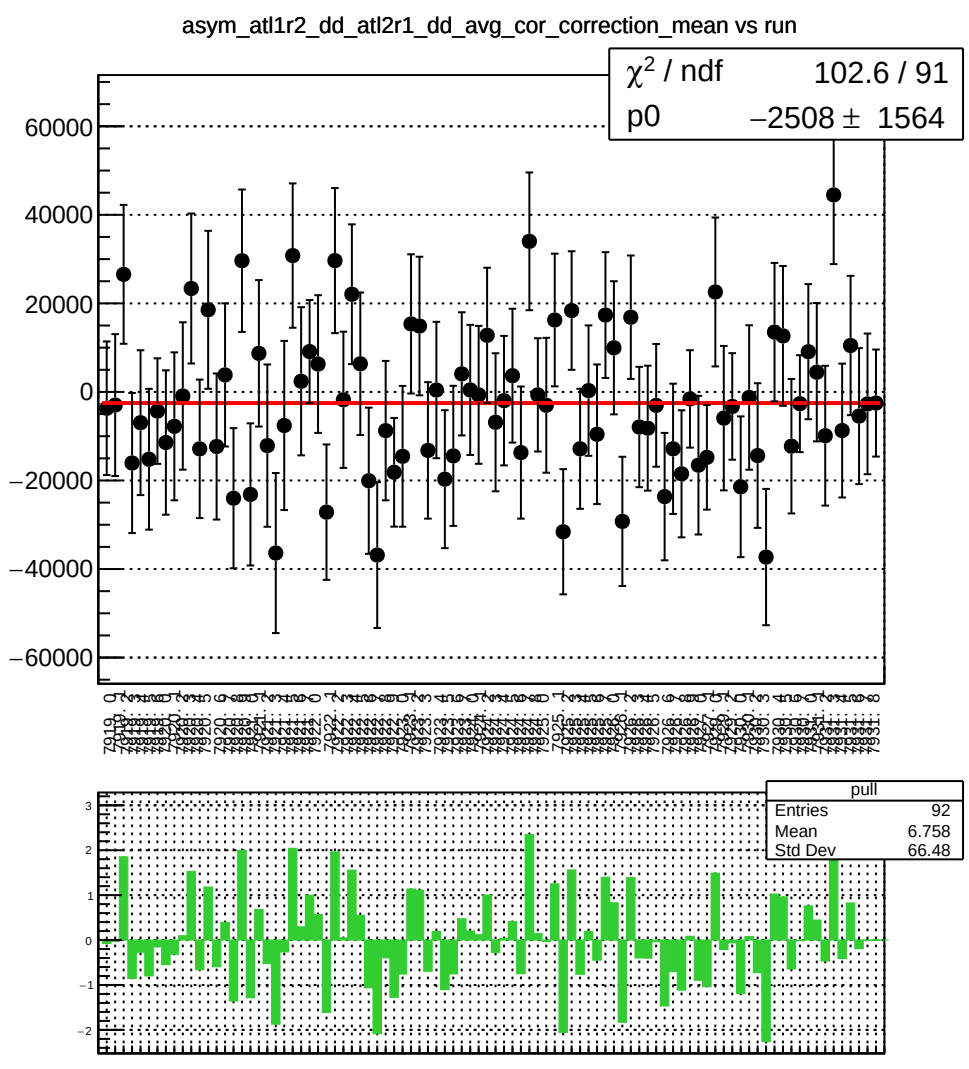

reg_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 141.8 / 91
p0 1267 ± 0.9492
1320
1310
1300
1290
1280
1270
1260
1250
1240
1230

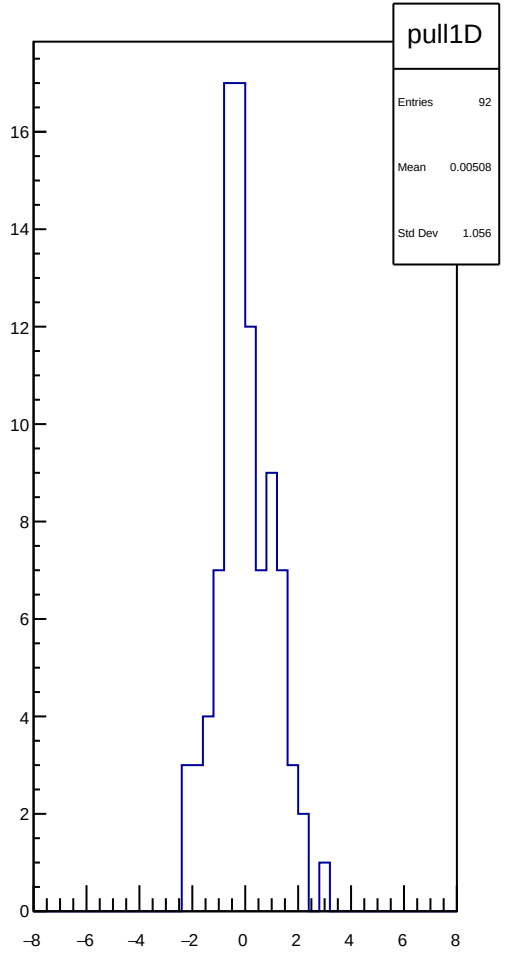

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_mean vs run
χ² / ndf 102.6 / 91
p0 −2508 ± 1564
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 6.782
Std Dev 66.52
3
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.005078
Std Dev 1.056
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

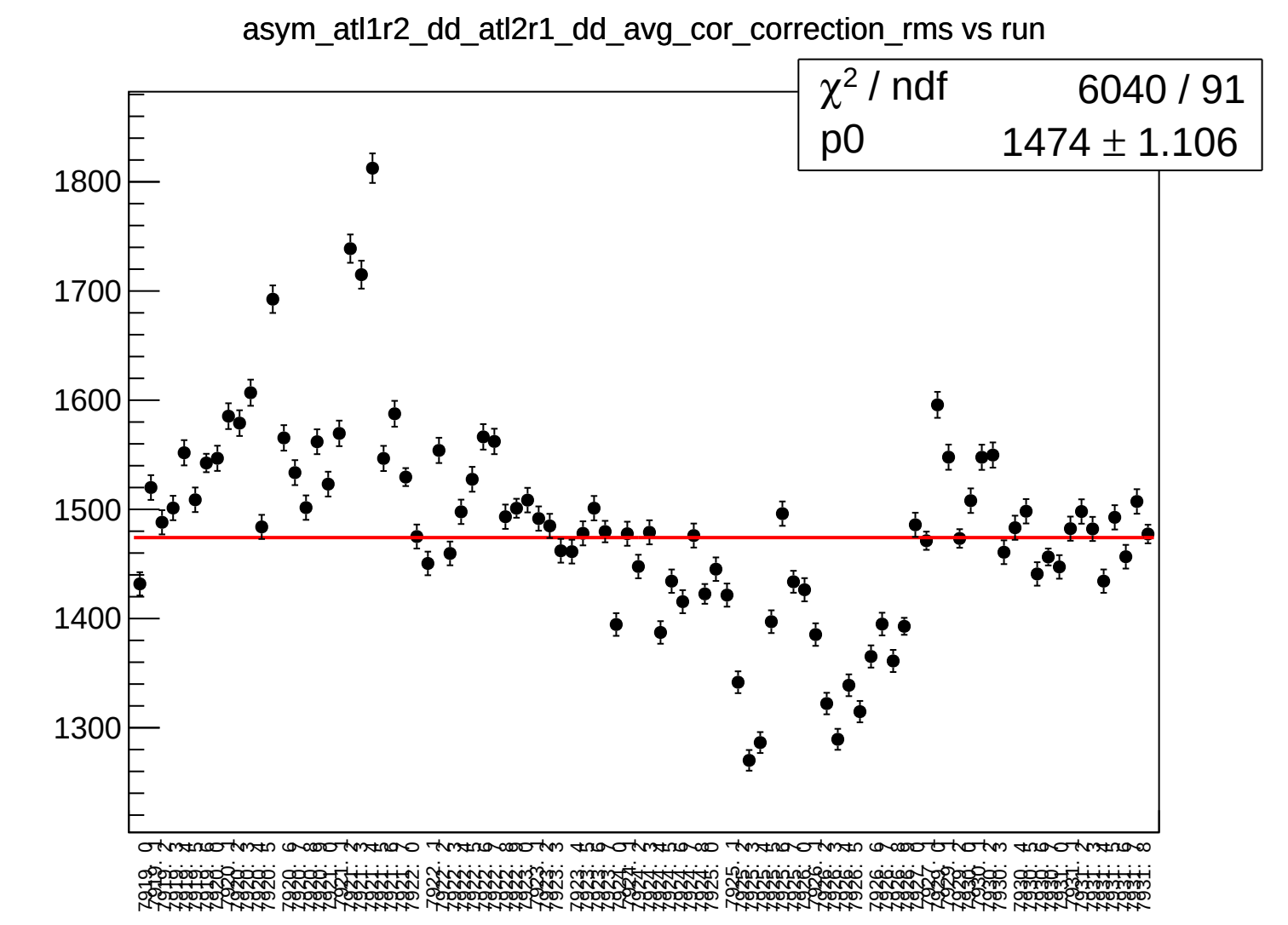

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_rms vs run
χ² / ndf 6040 / 91
p0 1474 ± 1.106
1800
1700
1600
1500
1400
1300

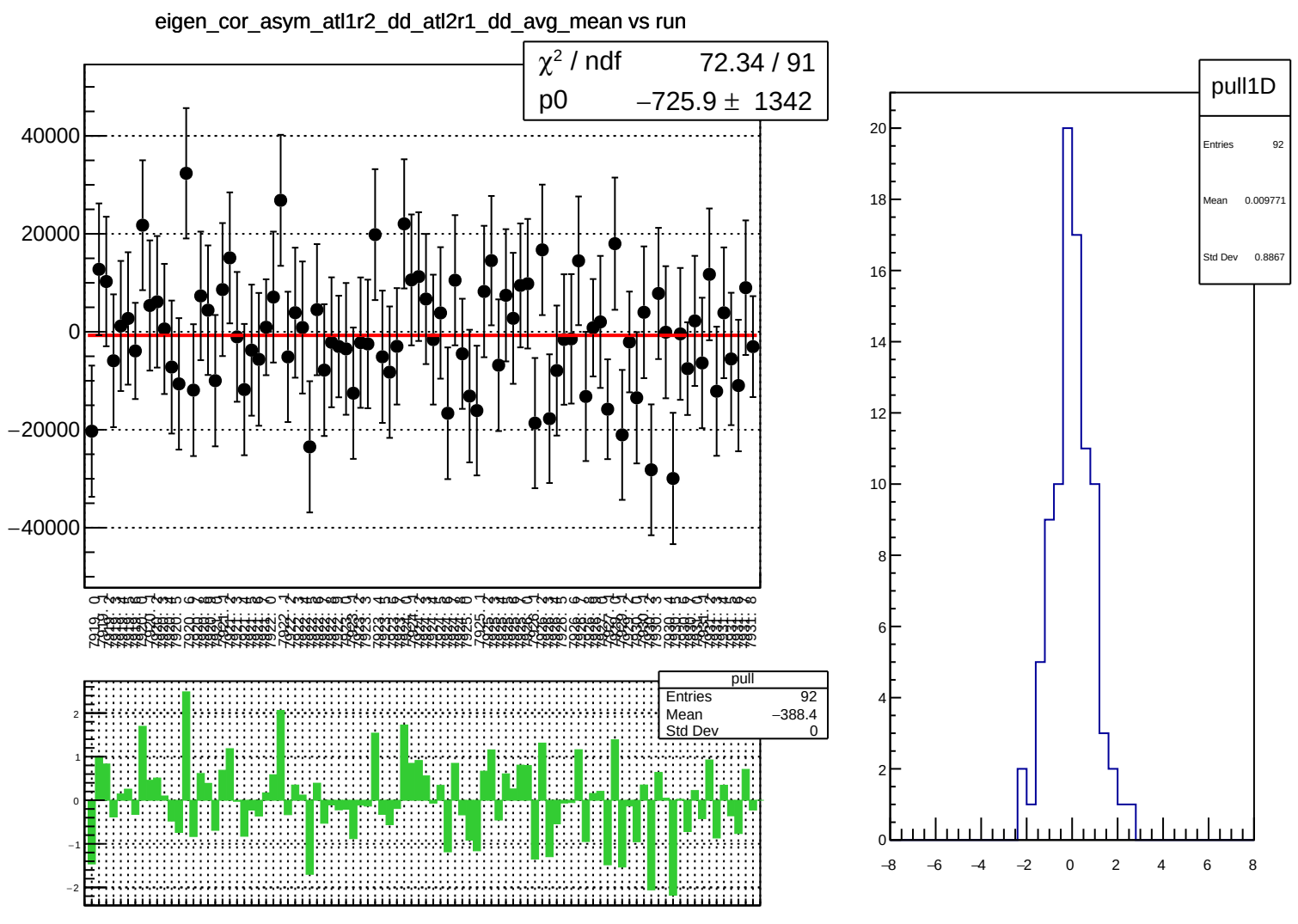

cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 72.34 / 91
p0 −725.9 ± 1342
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −388.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.009771
Std Dev 0.8867
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

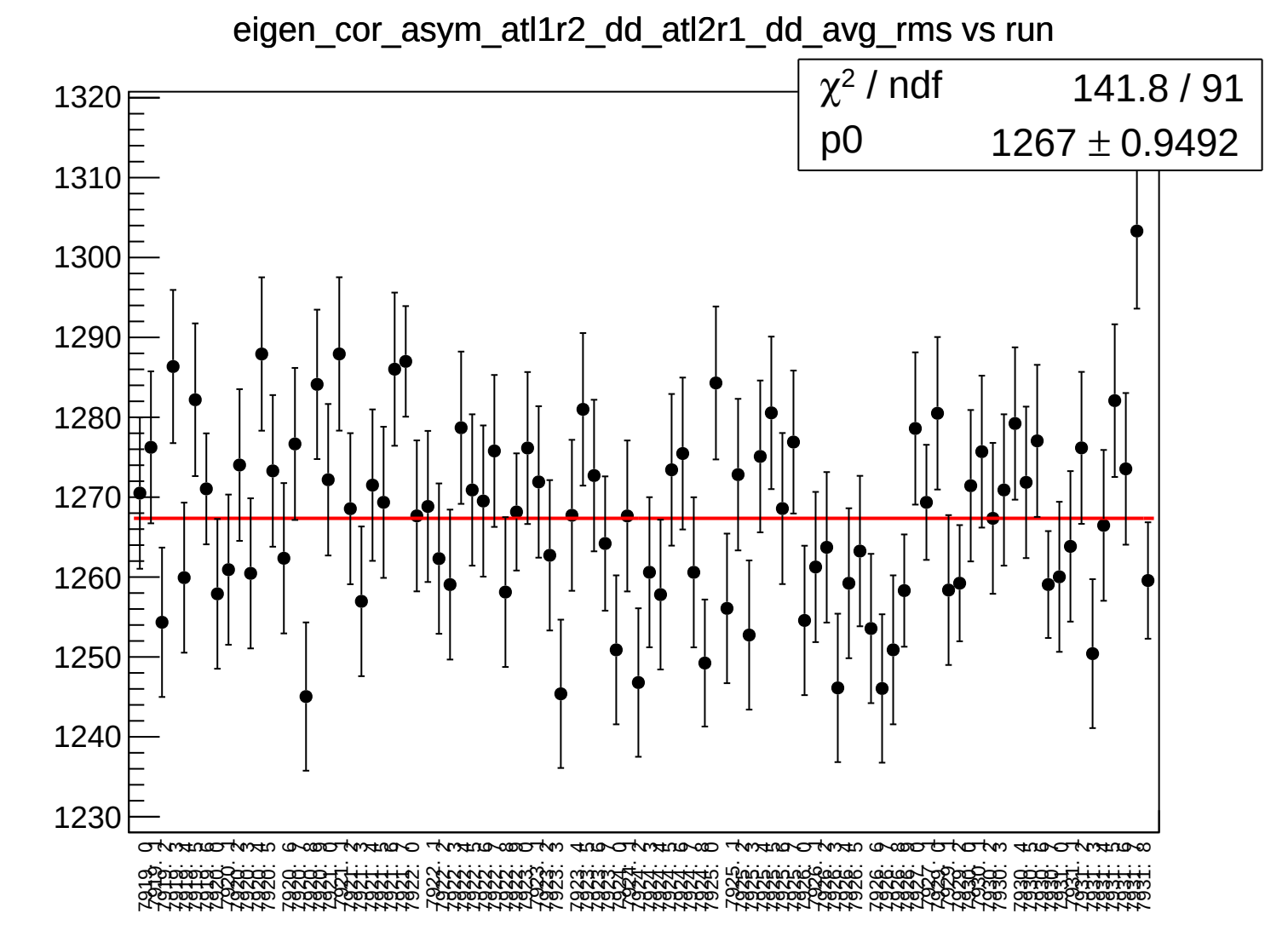

cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 141.8 / 91
p0 1267 ± 0.9492
1320
1310
1300
1290
1280
1270
1260
1250
1240
1230

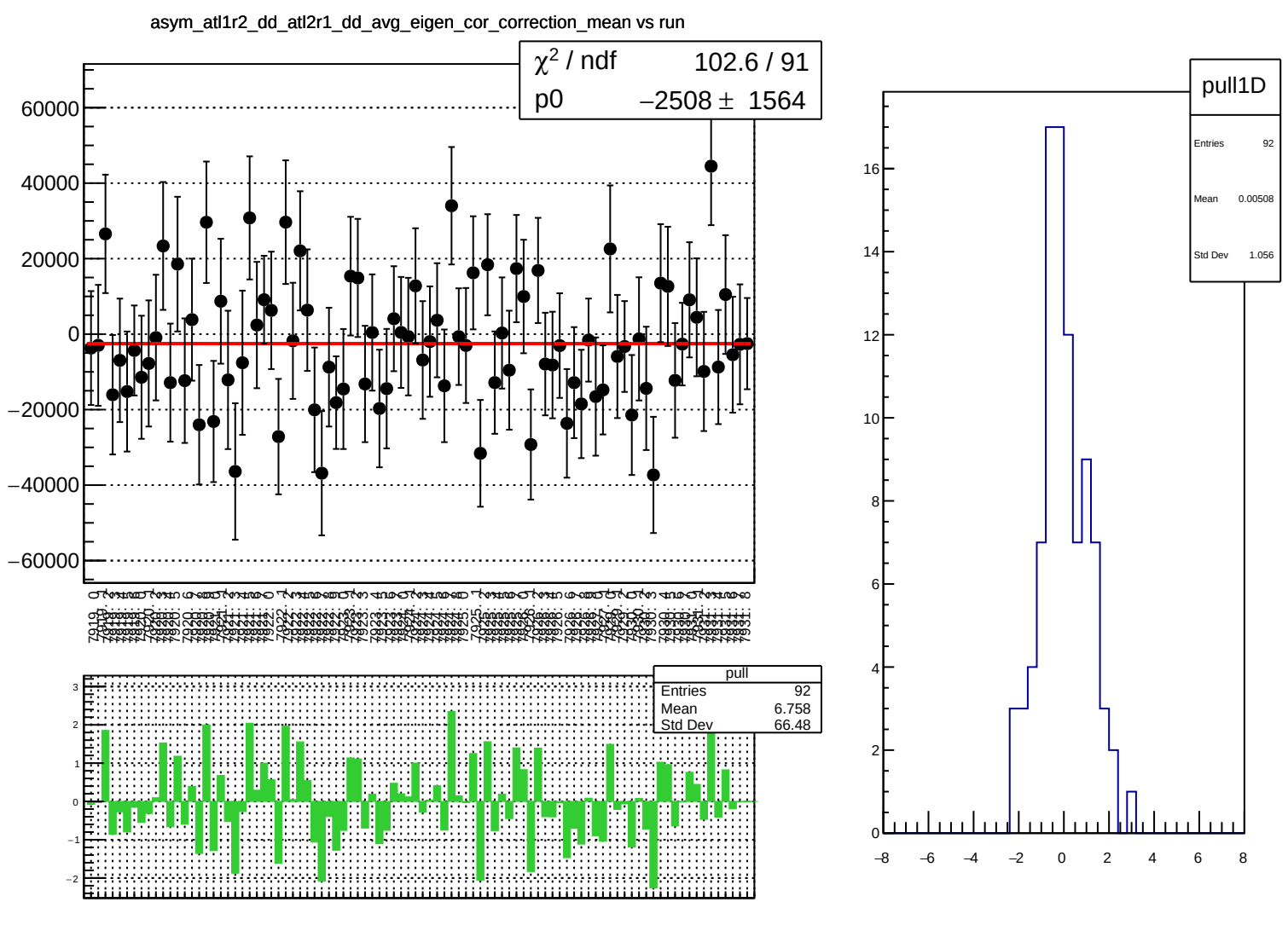

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_mean vs run
χ² / ndf 102.6 / 91
p0 −2508 ± 1564
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 6.758
Std Dev 66.48
3
2
1
0
−1
−2

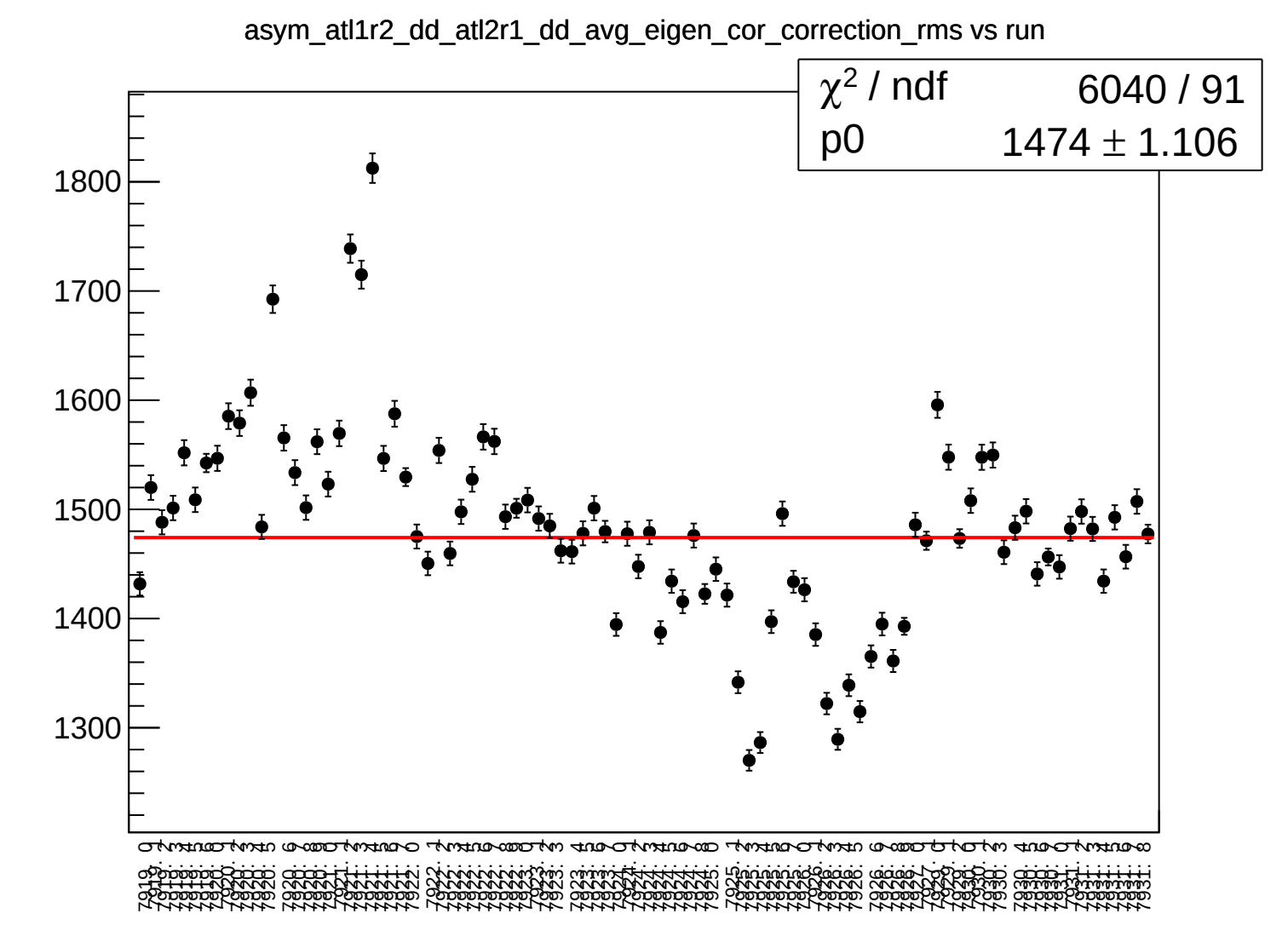

pull1D
Entries 92
Mean 0.00508
Std Dev 1.056
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

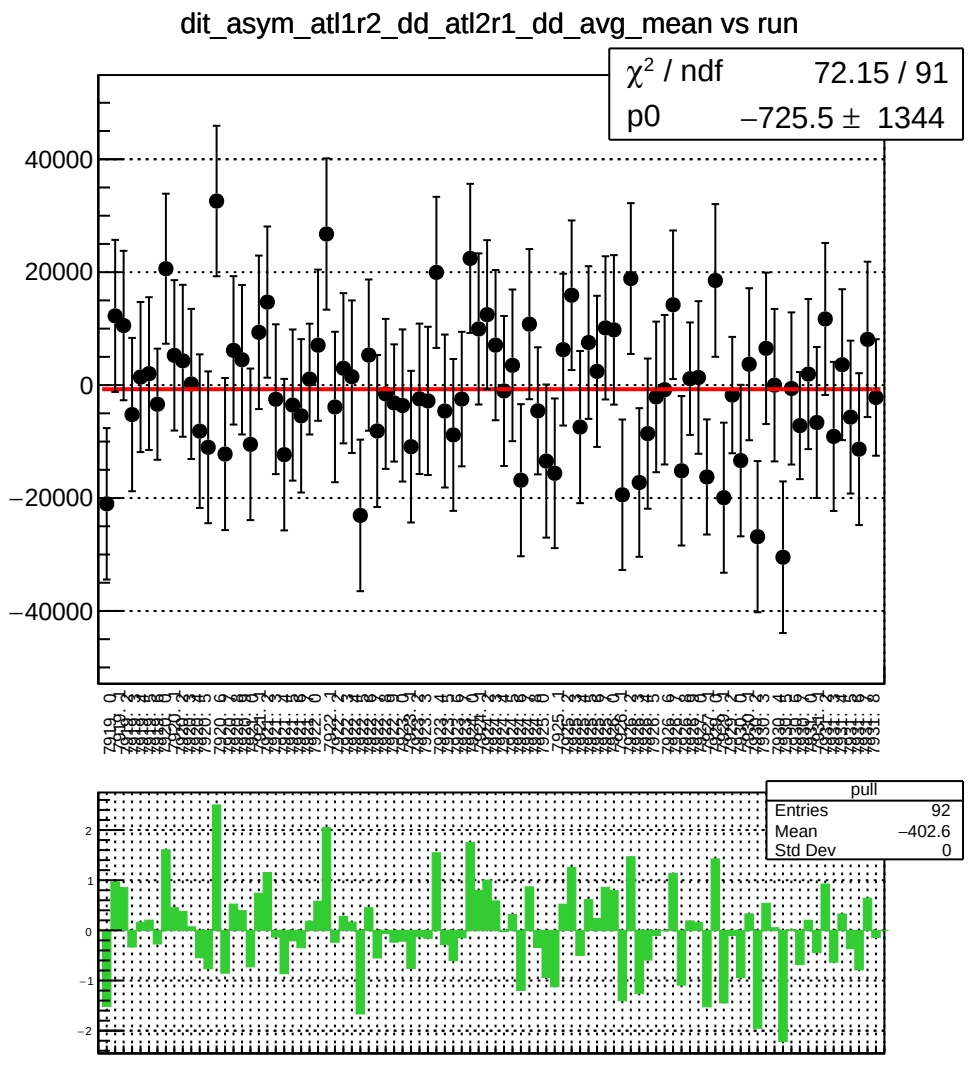

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_rms vs run
χ² / ndf 6040 / 91
p0 1474 ± 1.106
1800
1700
1600
1500
1400
1300

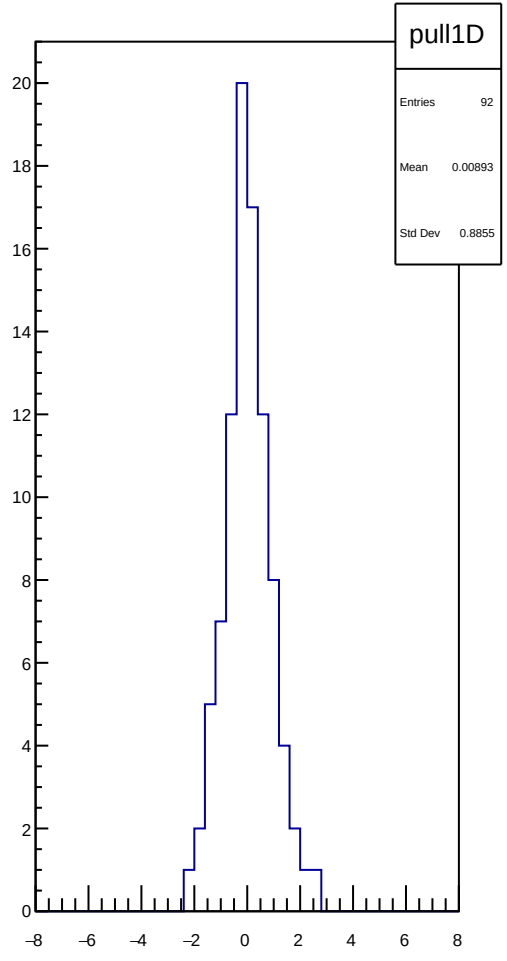

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 72.34 / 91
p0 −725.9 ± 1342
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −388.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.009771
Std Dev 0.8867
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

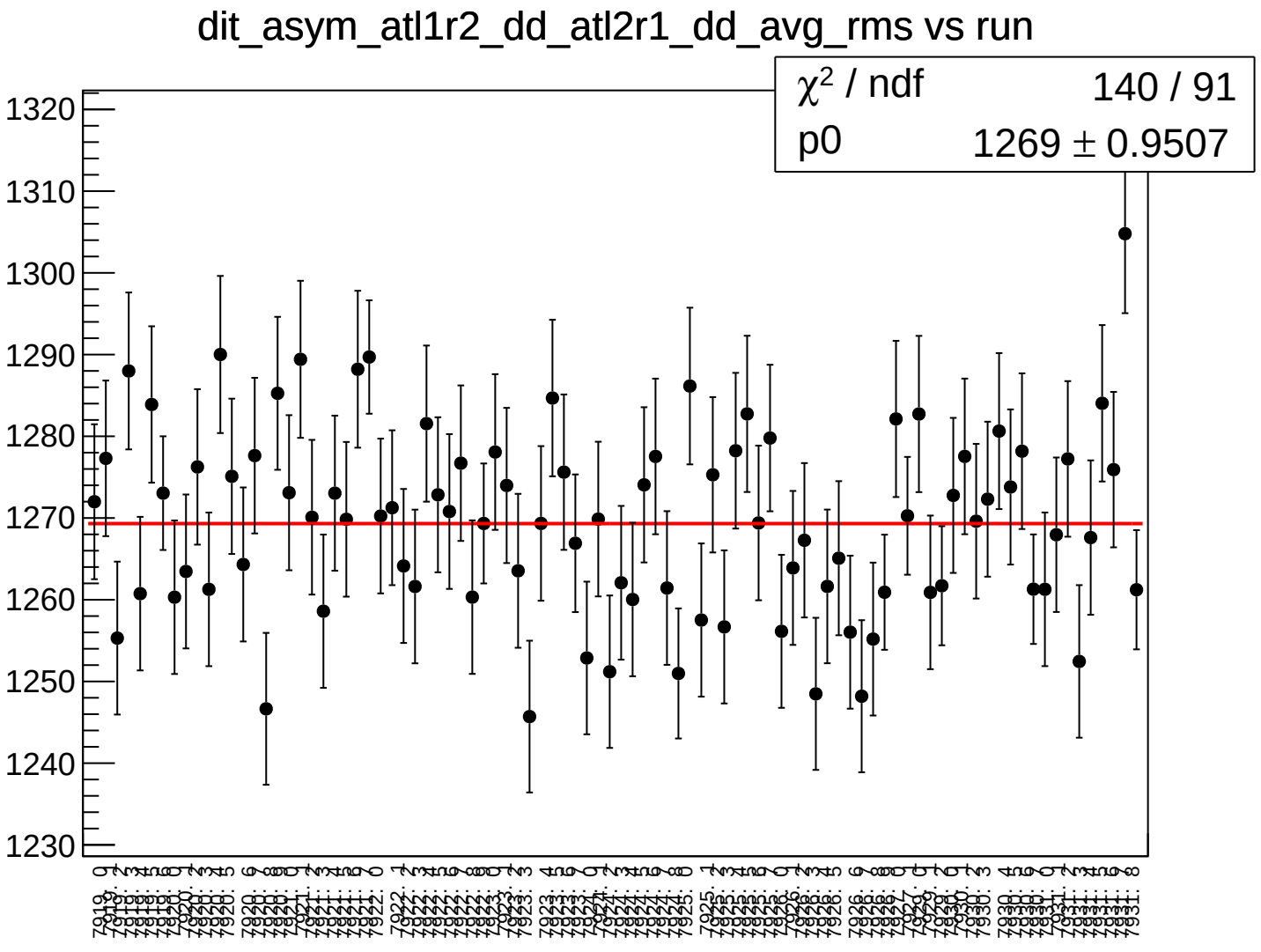

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 141.8 / 91
p0 1267 ± 0.9492
1320
1310
1300
1290
1280
1270
1260
1250
1240
1230

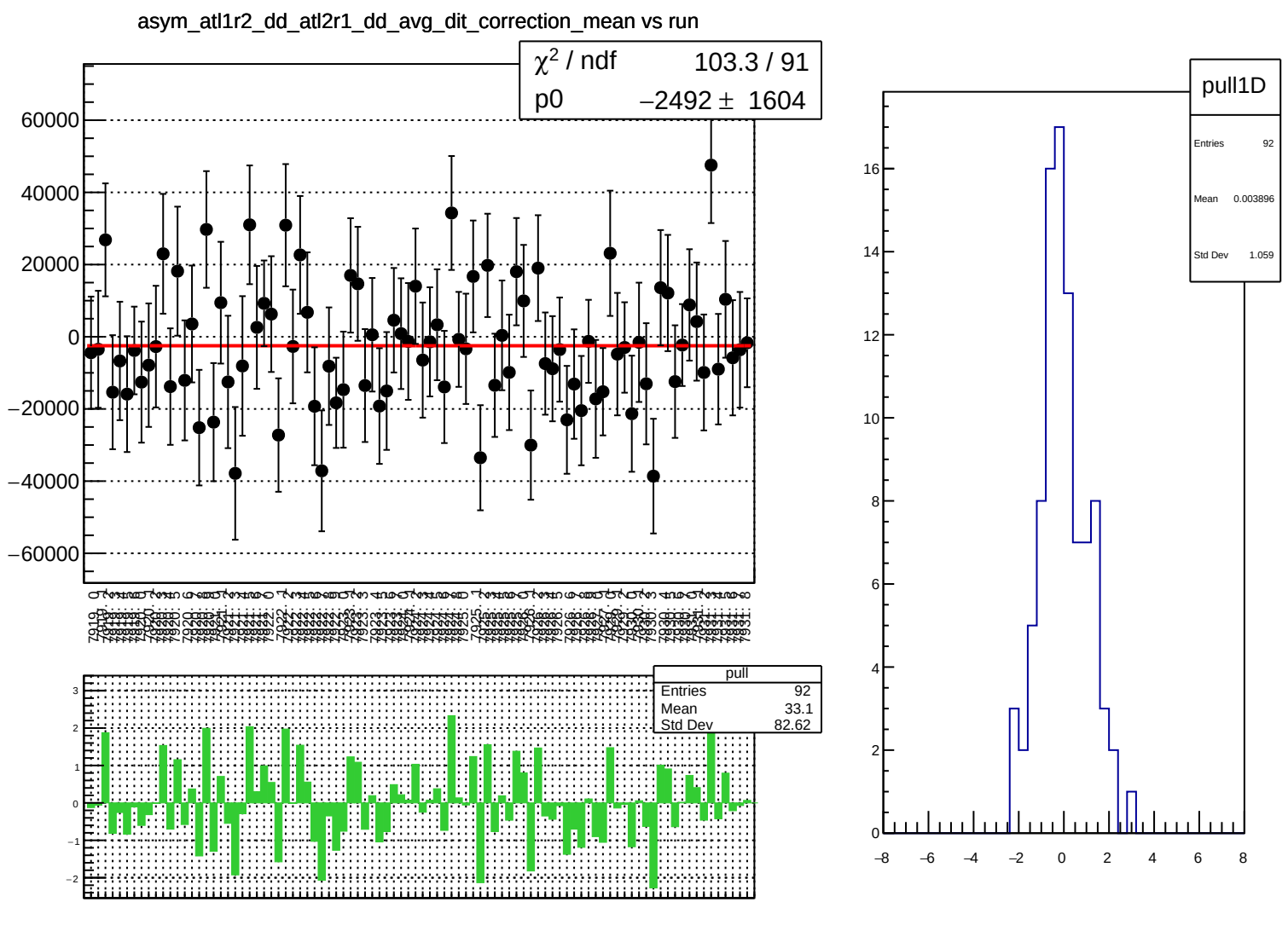

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 102.6 / 91
p0 −2508 ± 1564
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 6.758
Std Dev 66.48
3
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.00508
Std Dev 1.056
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

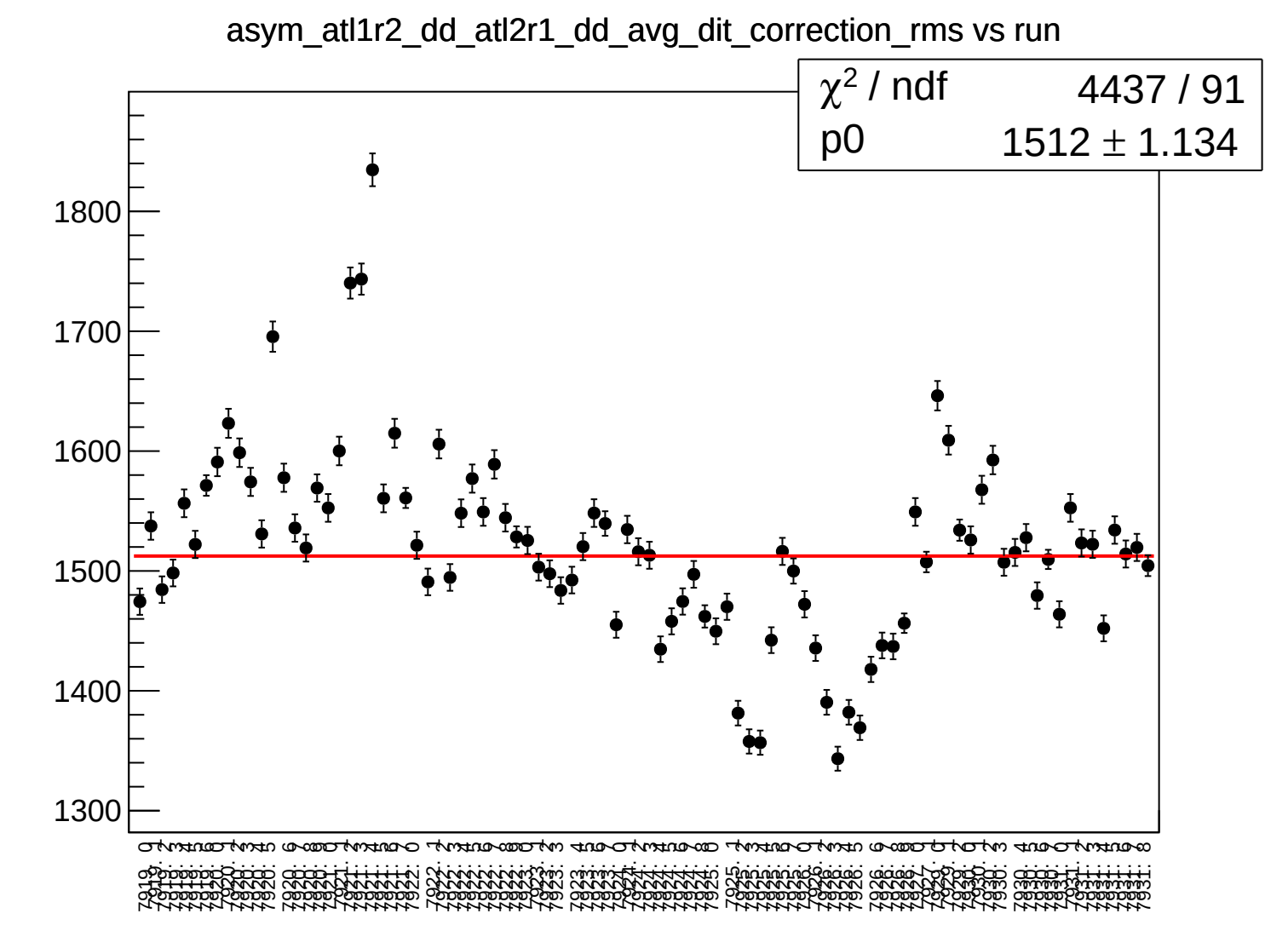

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 6040 / 91
p0 1474 ± 1.106
1800
1700
1600
1500
1400
1300

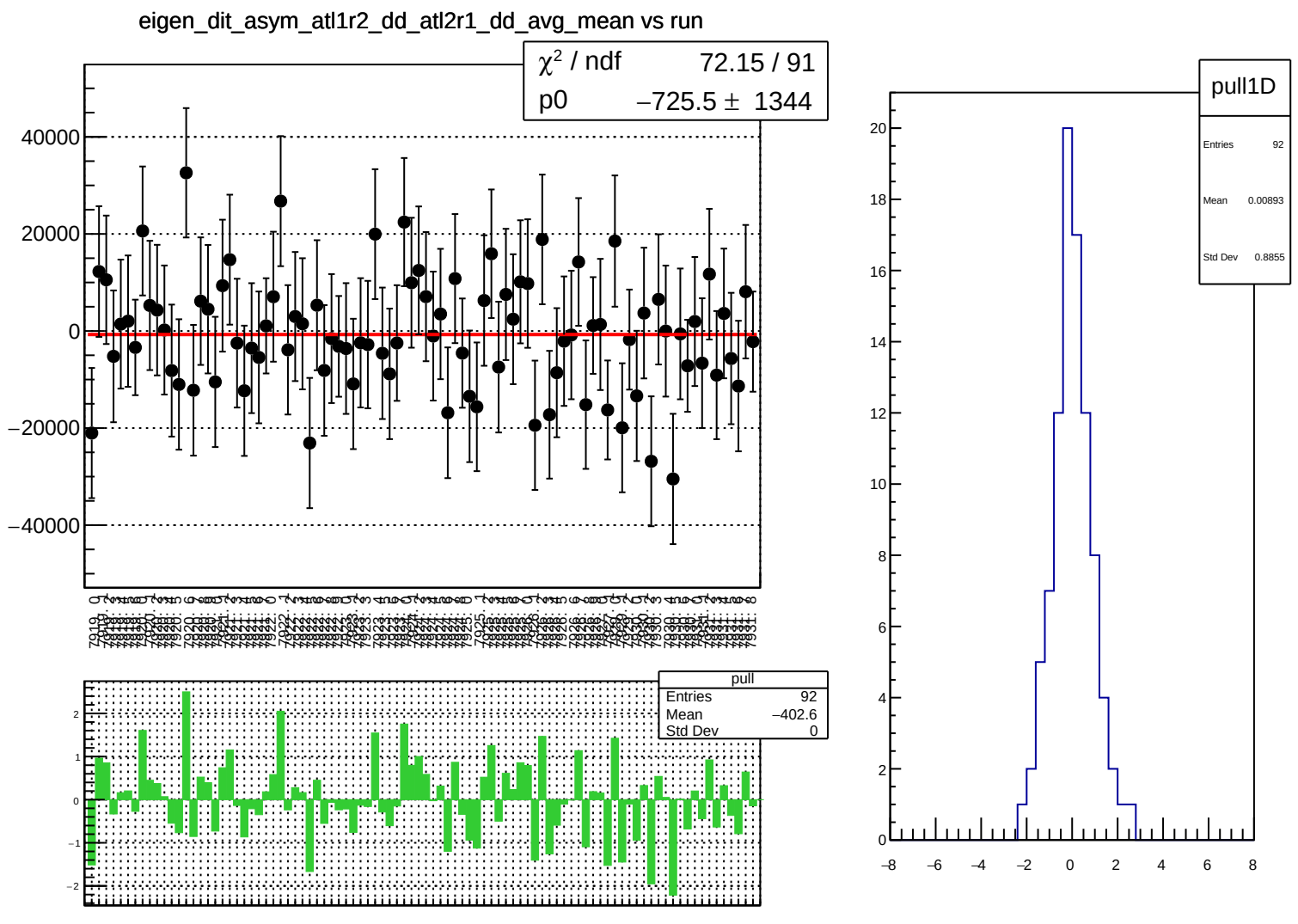

dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 72.15 / 91
p0 −725.5 ± 1344
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −402.6
Std Dev 0
2
1
0
−1
−2

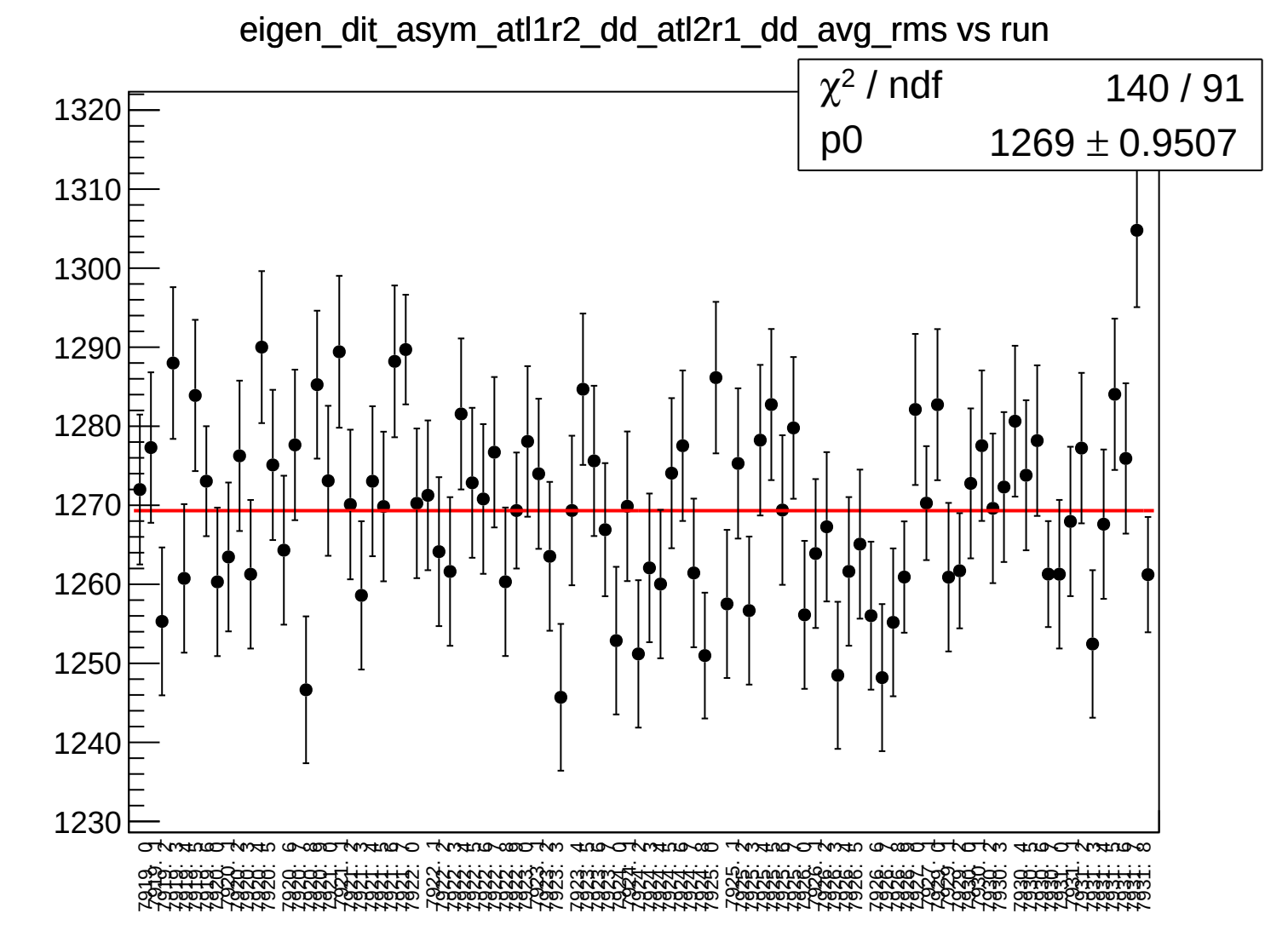

pull1D
Entries 92
Mean 0.00893
Std Dev 0.8855
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

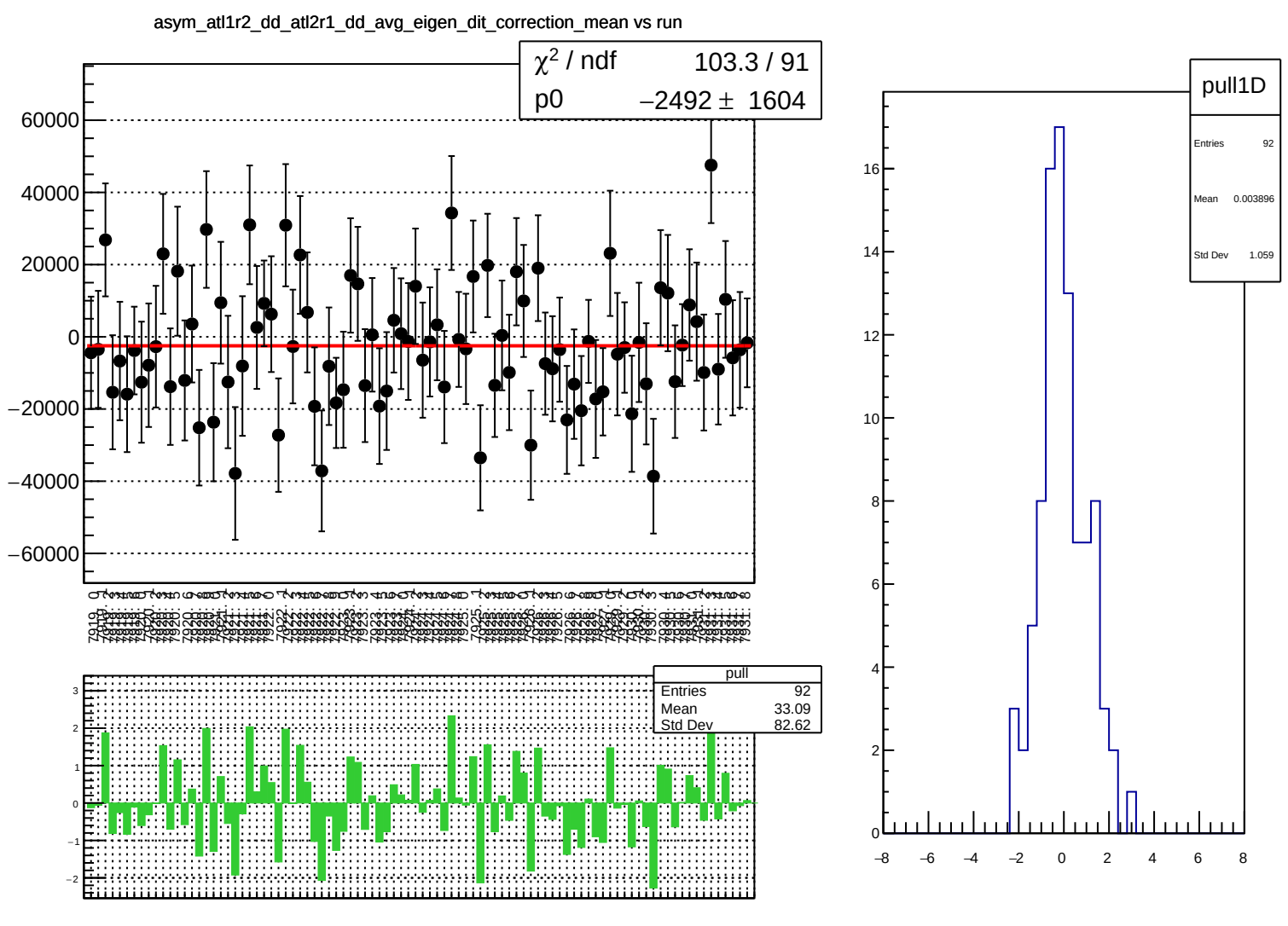

dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 140 / 91
p0 1269 ± 0.9507
1320
1310
1300
1290
1280
1270
1260
1250
1240
1230

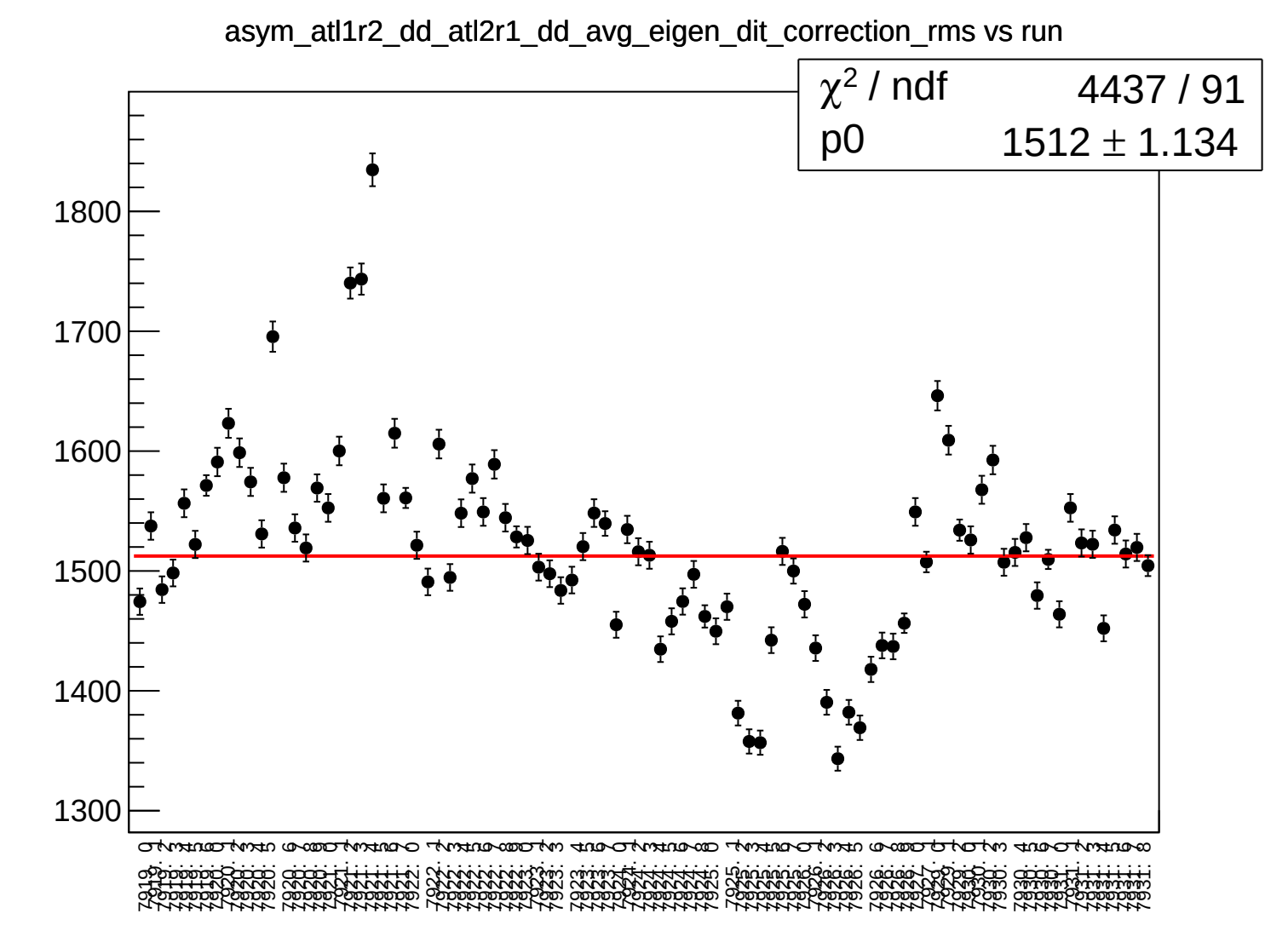

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_mean vs run
χ² / ndf 103.3 / 91
p0 −2492 ± 1604
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 33.1
Std Dev 82.62
3
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.003896
Std Dev 1.059
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

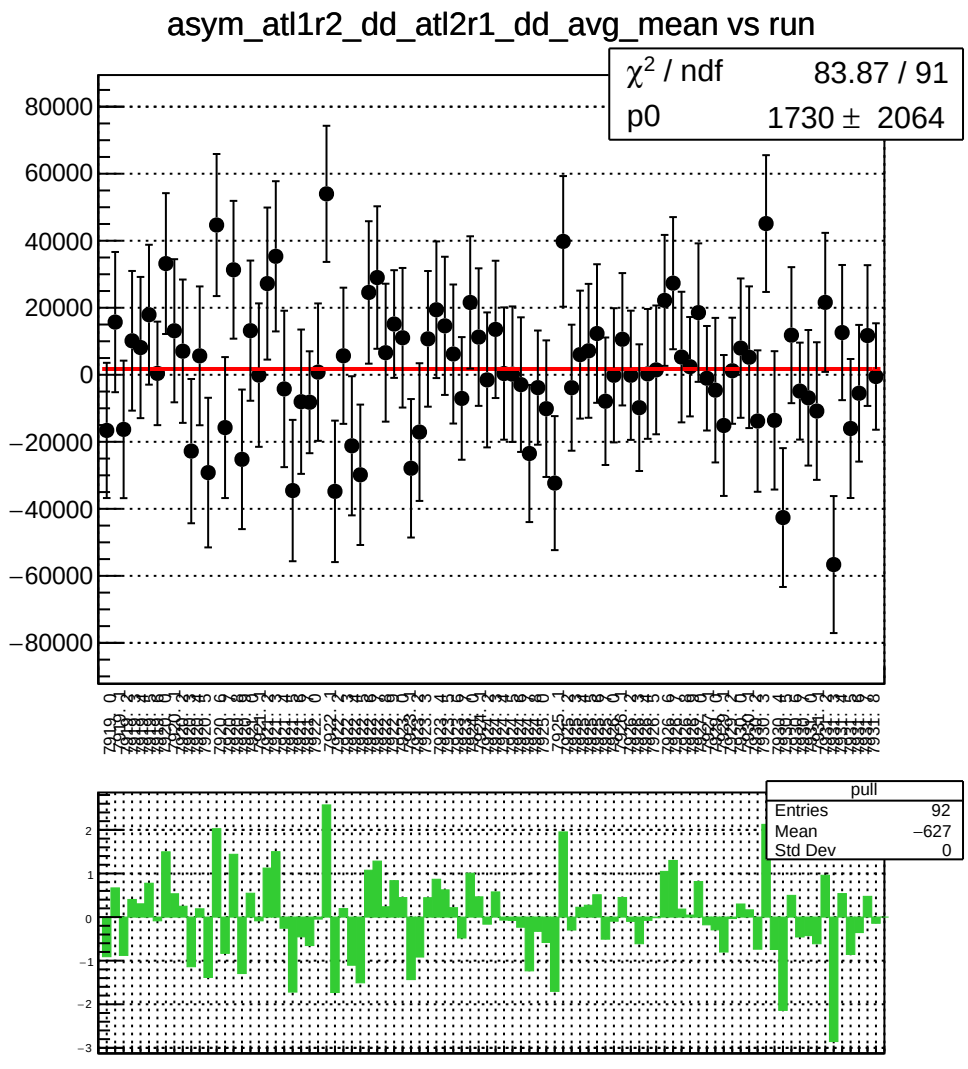

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_rms vs run
χ² / ndf 4437 / 91
p0 1512 ± 1.134
1800
1700
1600
1500
1400
1300

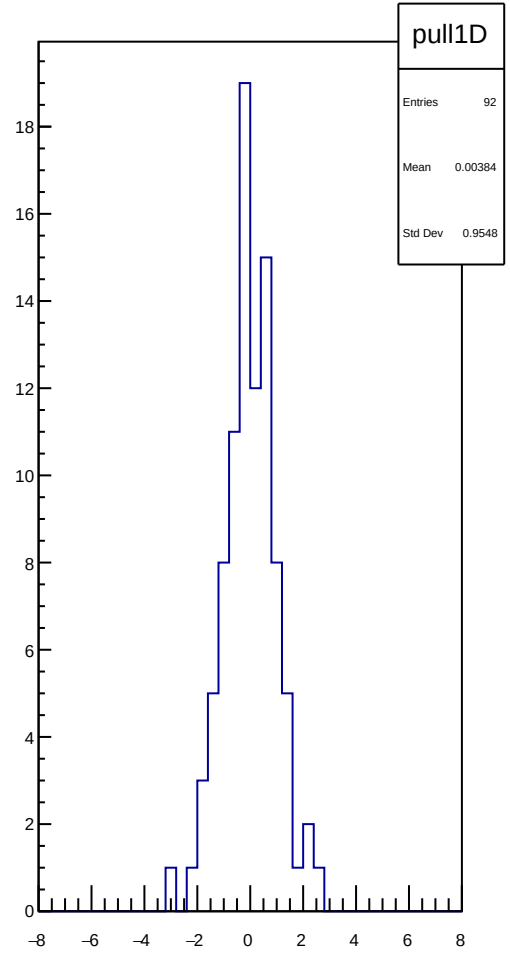

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 72.15 / 91
p0 −725.5 ± 1344
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −402.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.00893
Std Dev 0.8855
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

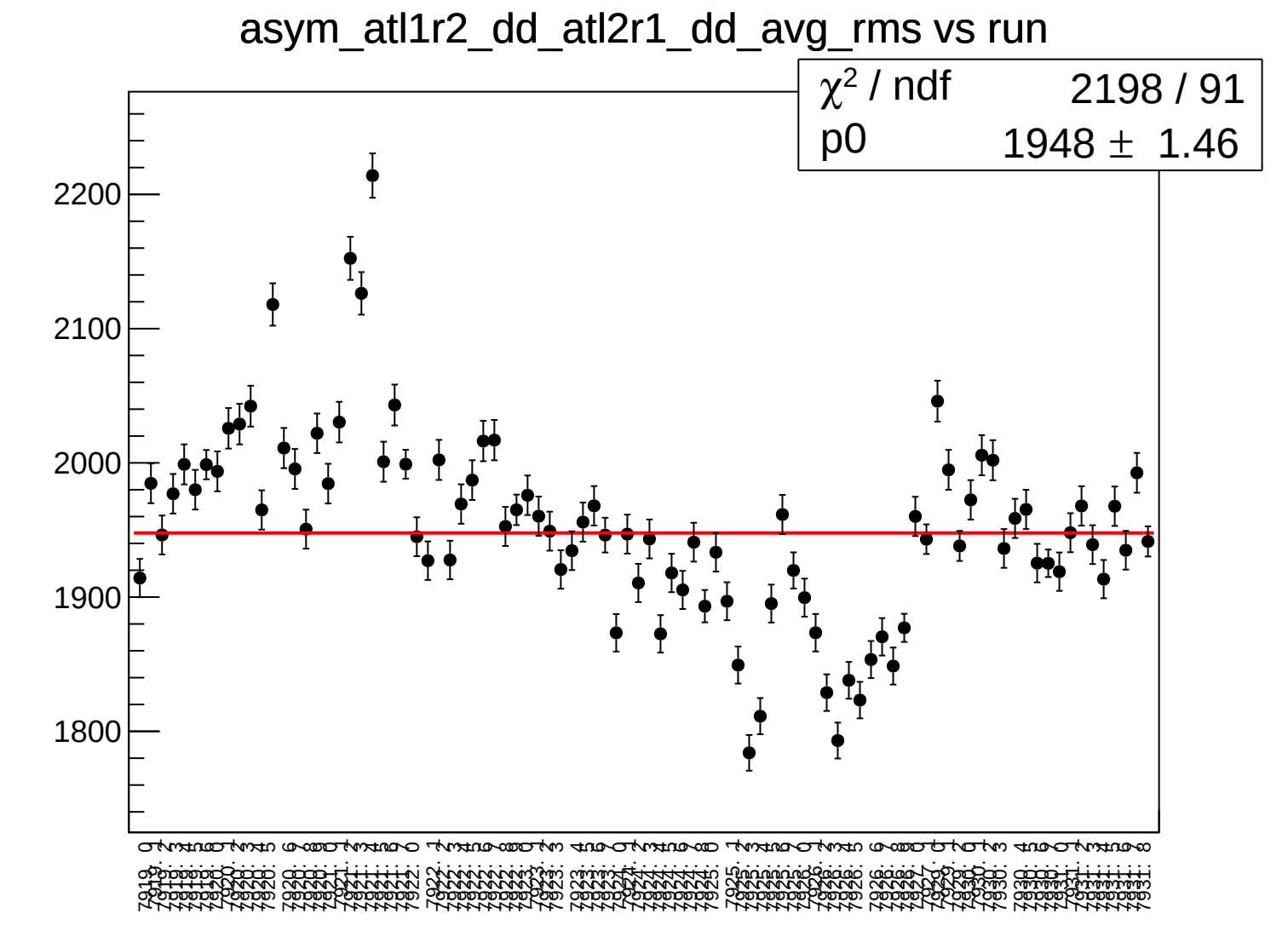

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 140 / 91
p0 1269 ± 0.9507
1320
1310
1300
1290
1280
1270
1260
1250
1240
1230

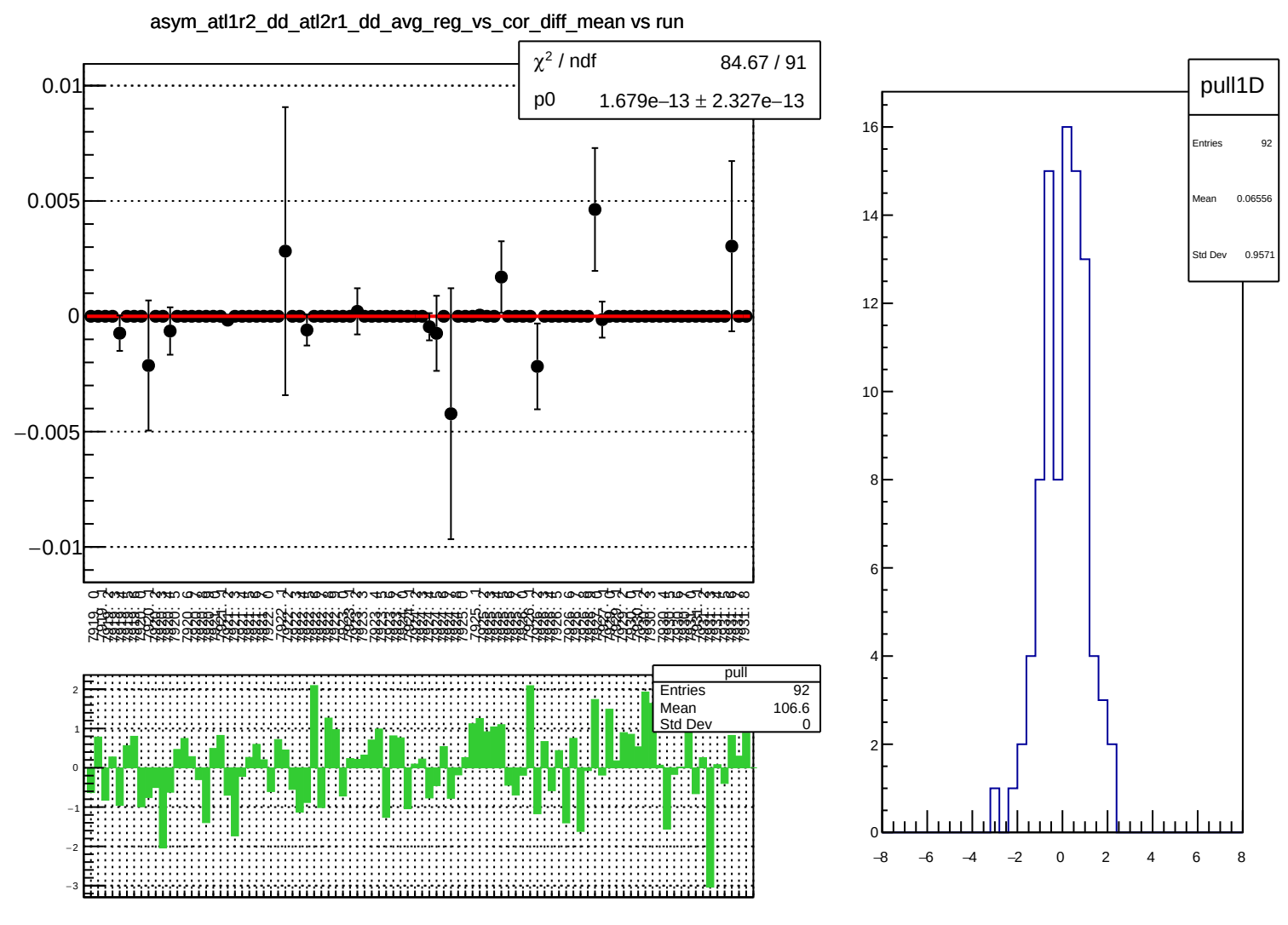

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 103.3 / 91
p0 −2492 ± 1604
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 33.09
Std Dev 82.62
3
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.003896
Std Dev 1.059
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

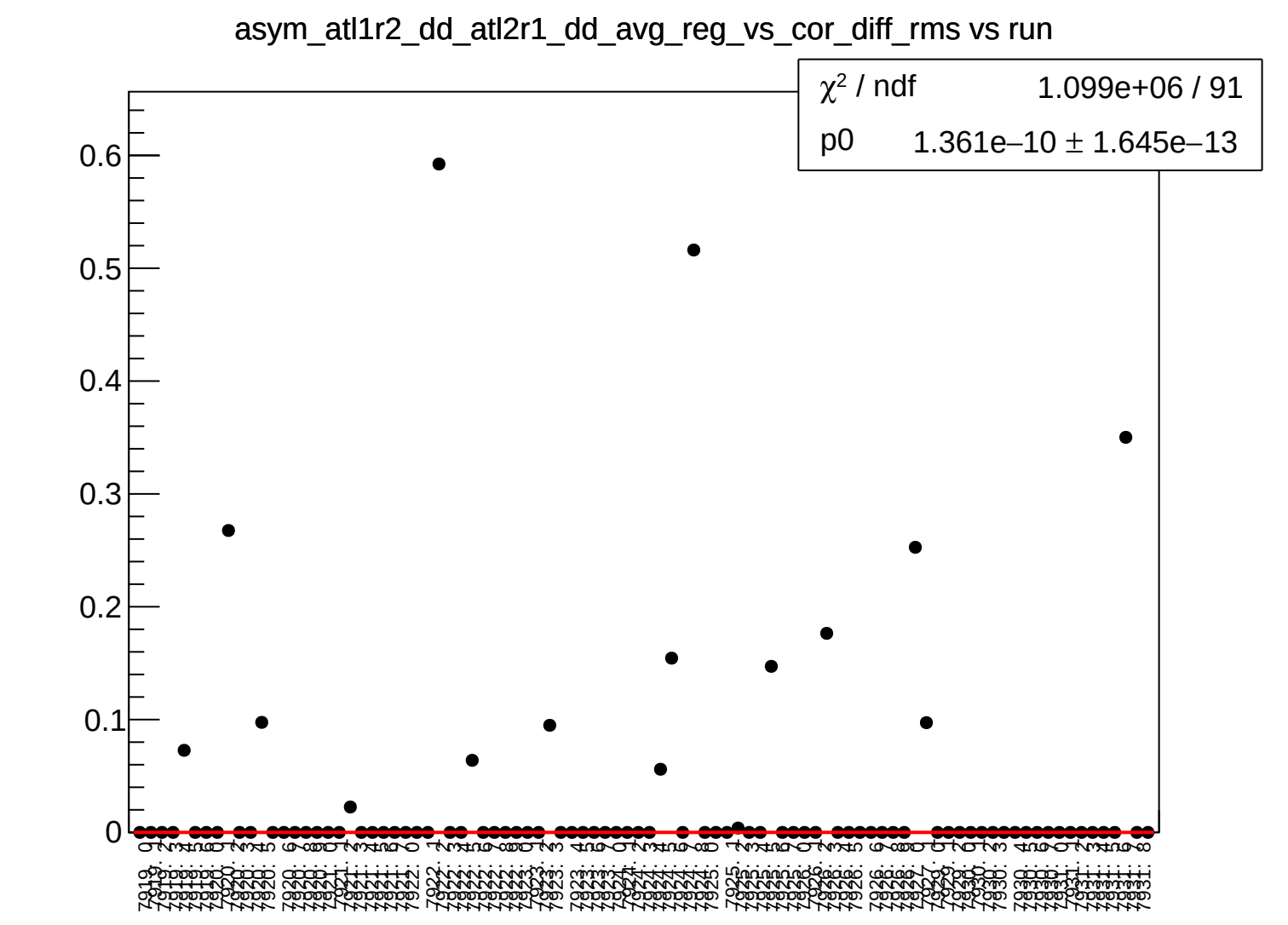

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 4437 / 91
p0 1512 ± 1.134
1800
1700
1600
1500
1400
1300

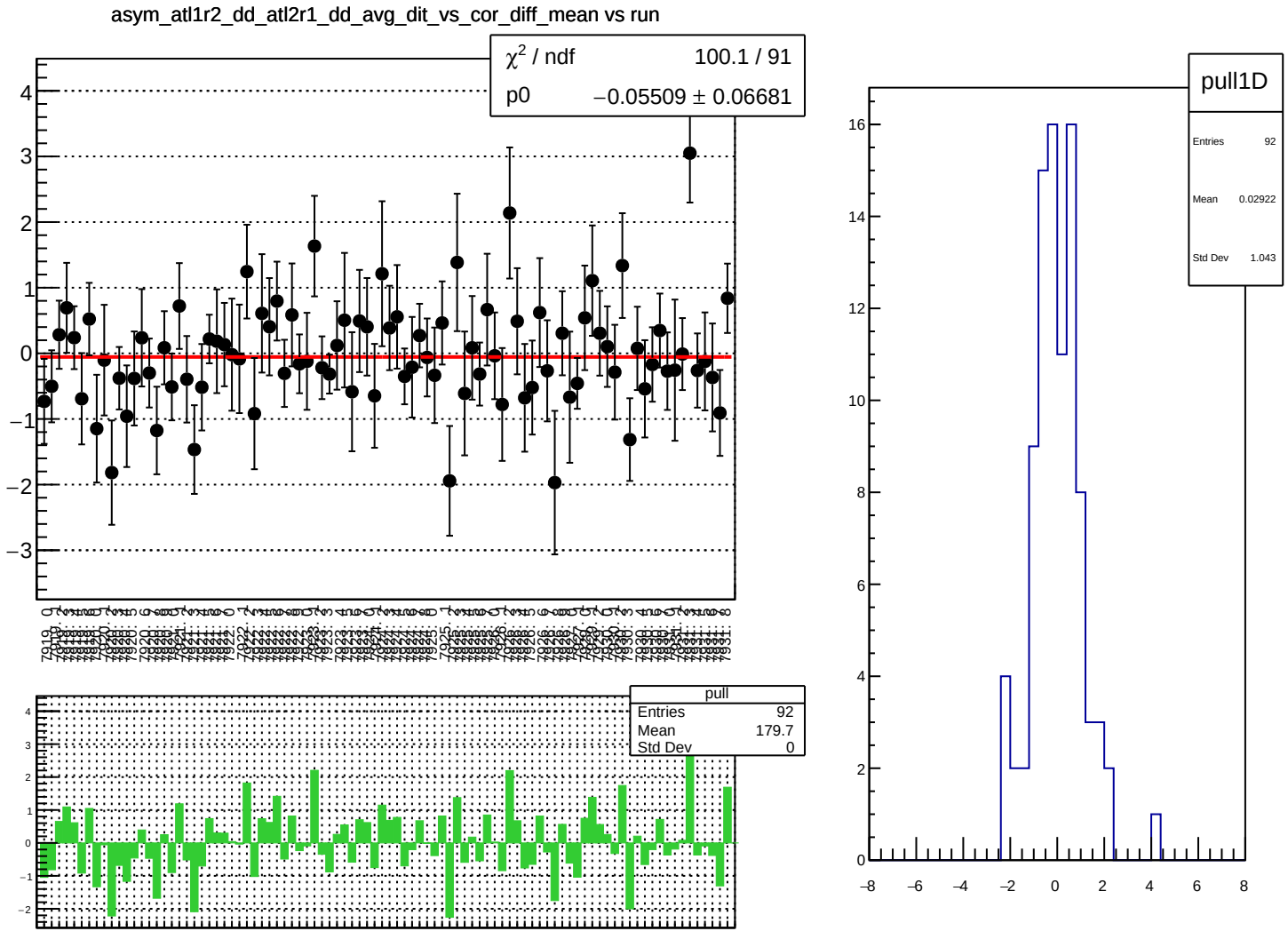

asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 83.87 / 91
p0 1730 ± 2064
pull
Entries 92
Mean −627
Std Dev 0

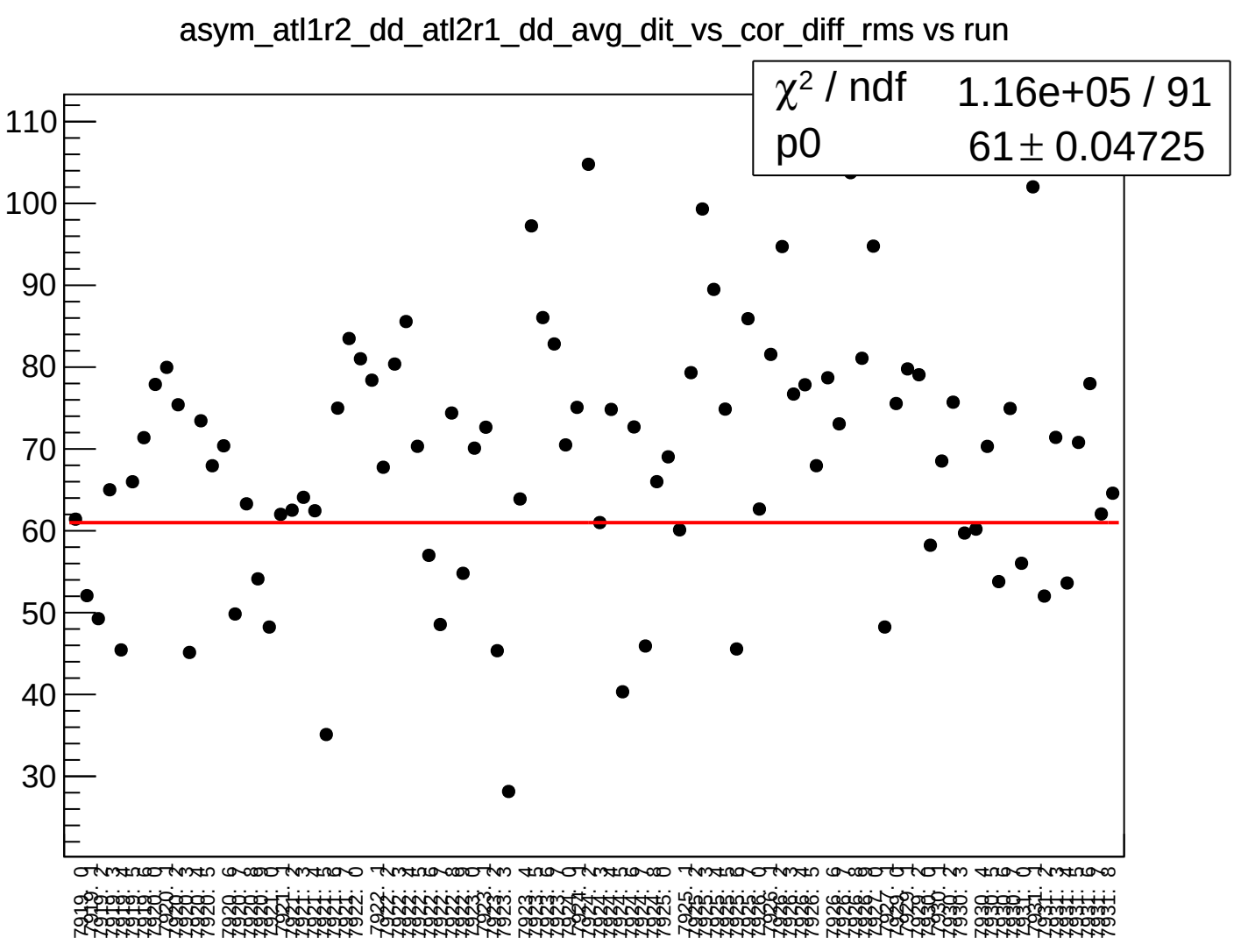

pull1D
Entries 92
Mean 0.00384
Std Dev 0.9548

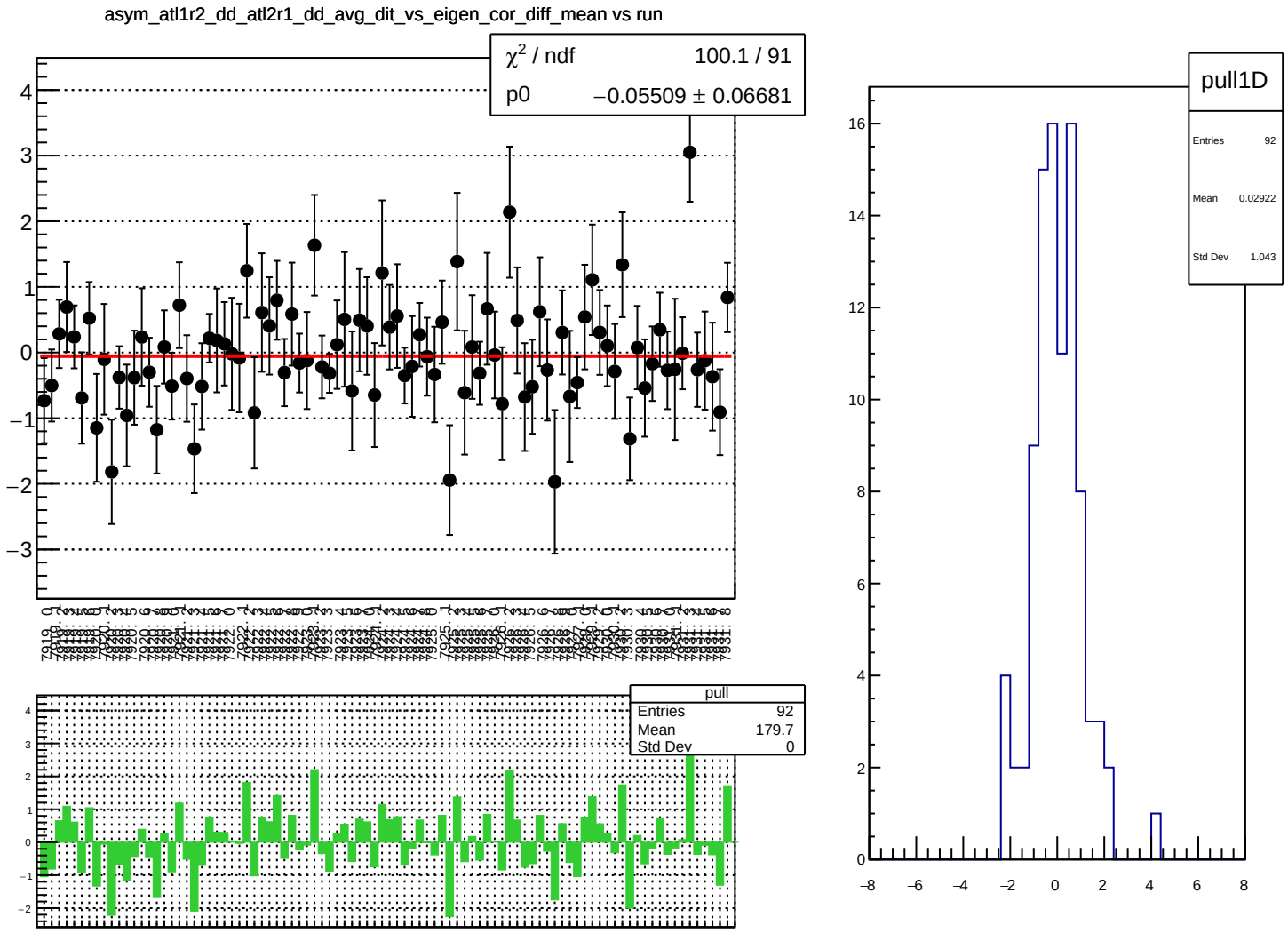

asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 2198 / 91
p0 1948 ± 1.46
2200
2100
2000
1900
1800

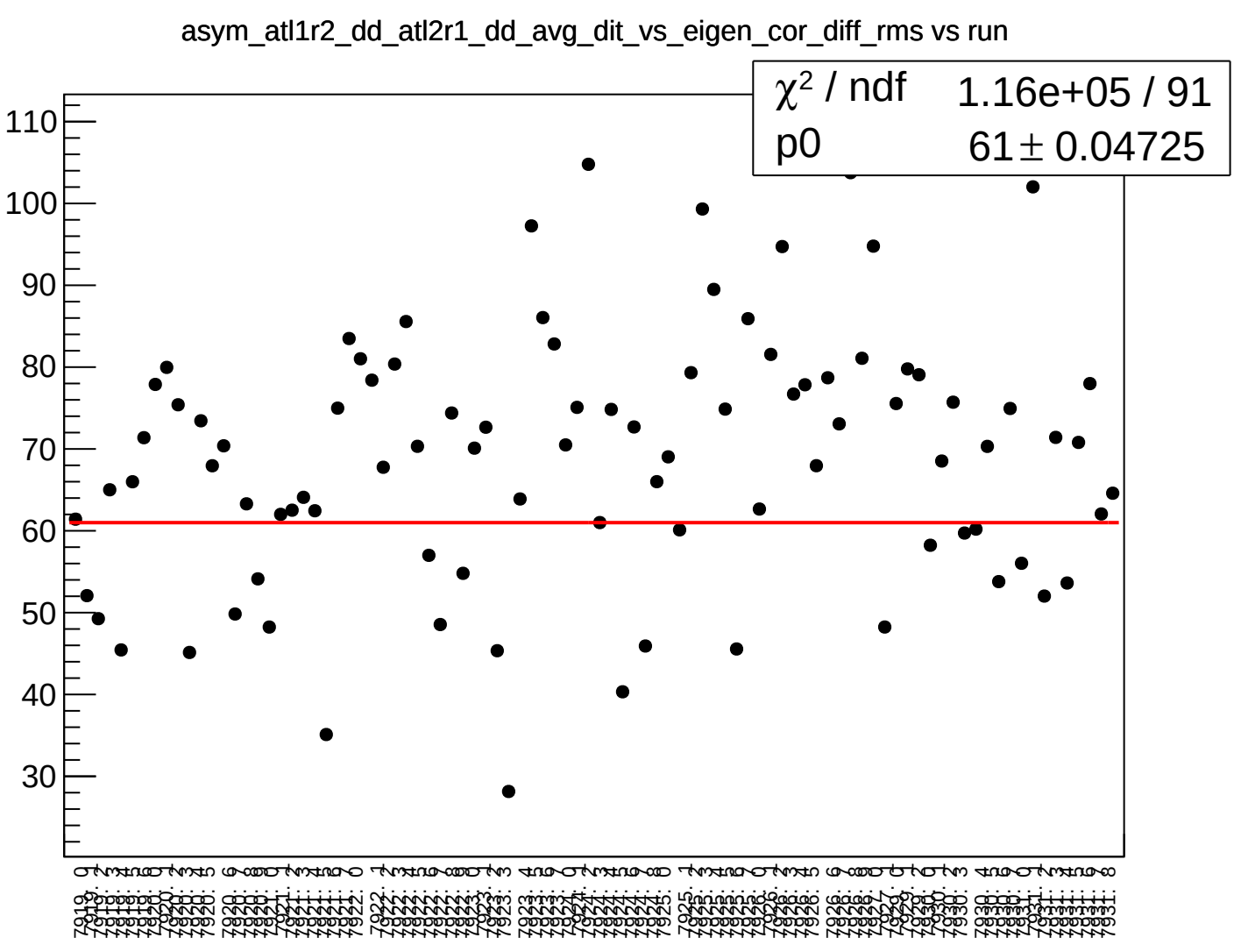

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 84.67 / 91
p0 1.679e−13 ± 2.327e−13
0.01
0.005
0
−0.005
−0.01
pull
Entries 92
Mean 106.6
Std Dev 0
pull1D
Entries 92
Mean 0.06556
Std Dev 0.9571

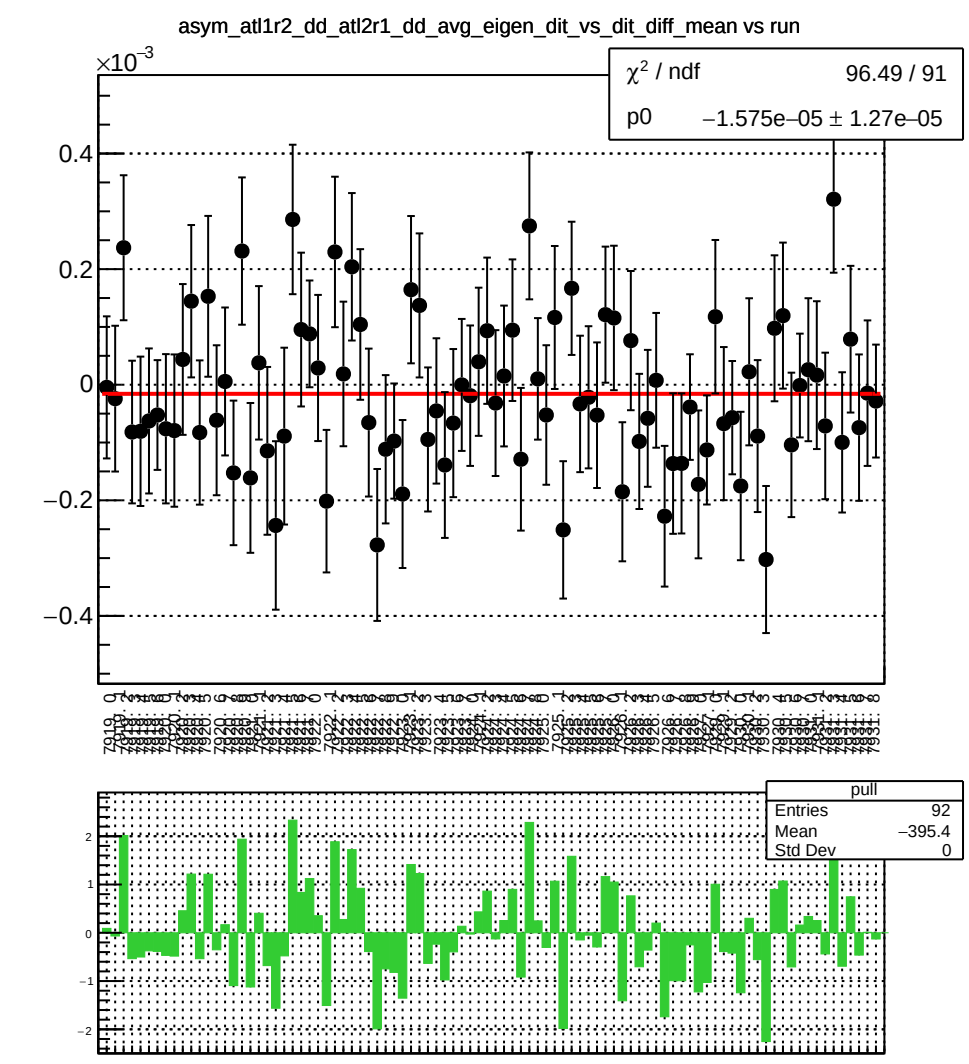

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.099e+06 / 91
p0 1.361e−10 ± 1.645e−13
0.6
0.5
0.4
0.3
0.2
0.1
0

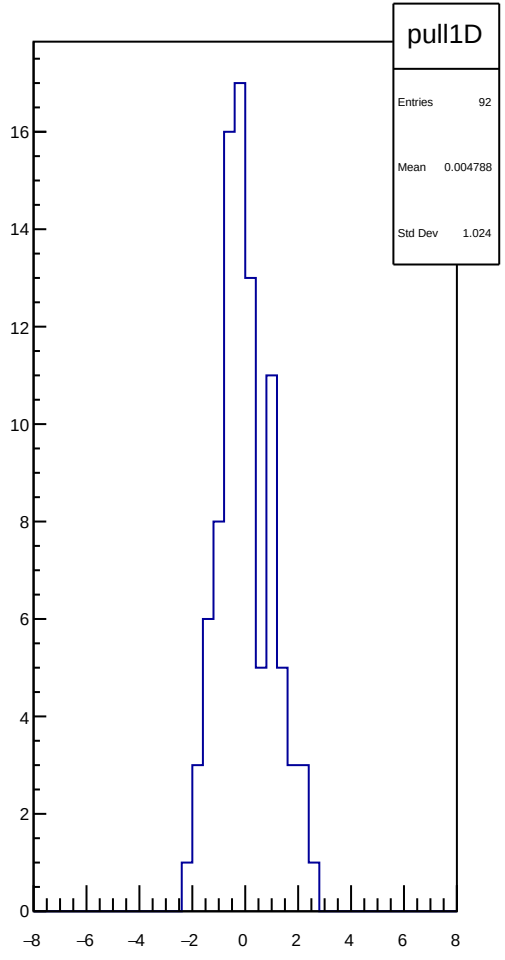

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 100.1 / 91
p0 −0.05509 ± 0.06681
pull
Entries 92
Mean 179.7
Std Dev 0
pull1D
Entries 92
Mean 0.02922
Std Dev 1.043

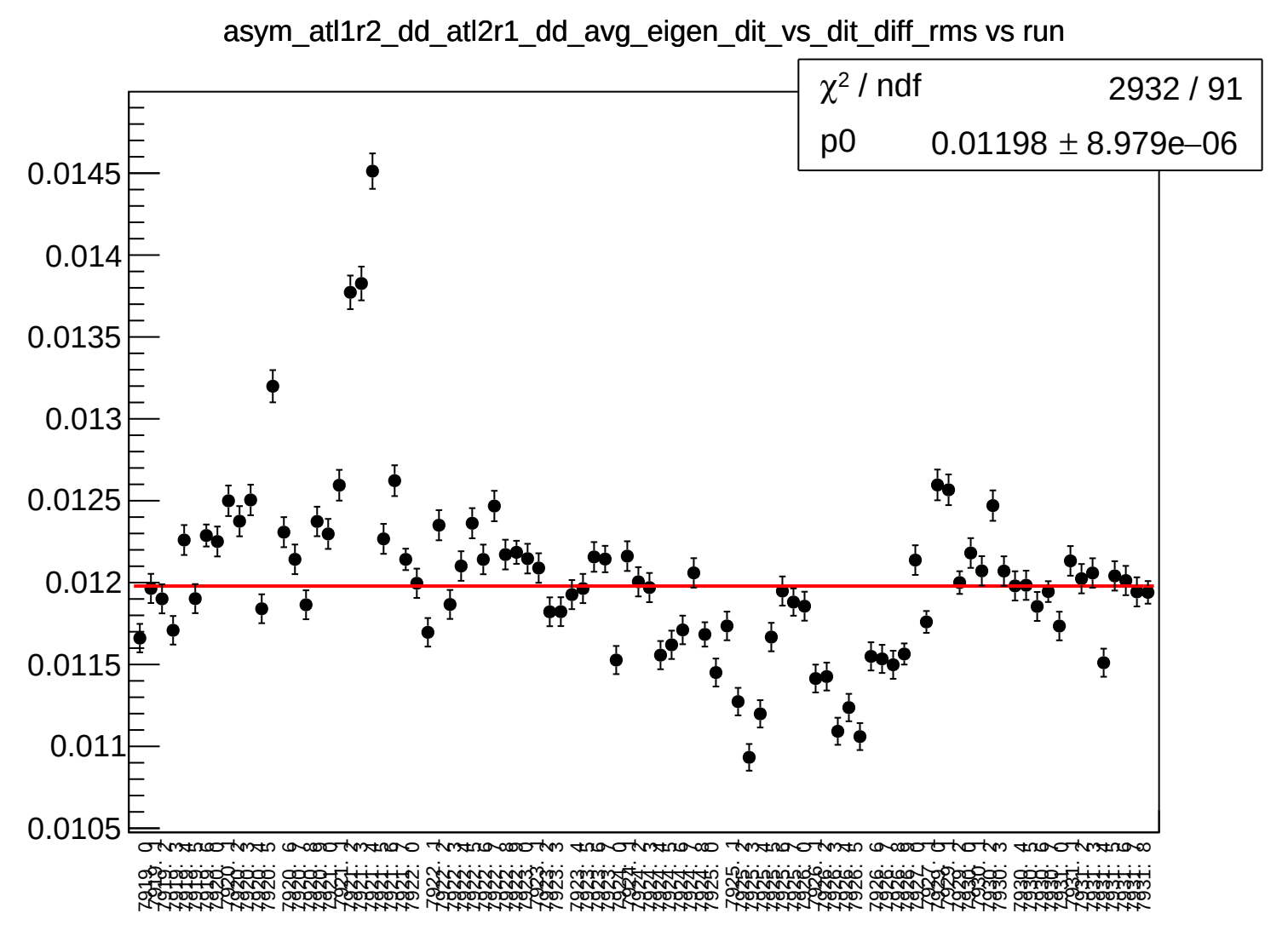

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.16e+05 / 91
p0 61 ± 0.04725
110
100
90
80
70
60
50
40
30

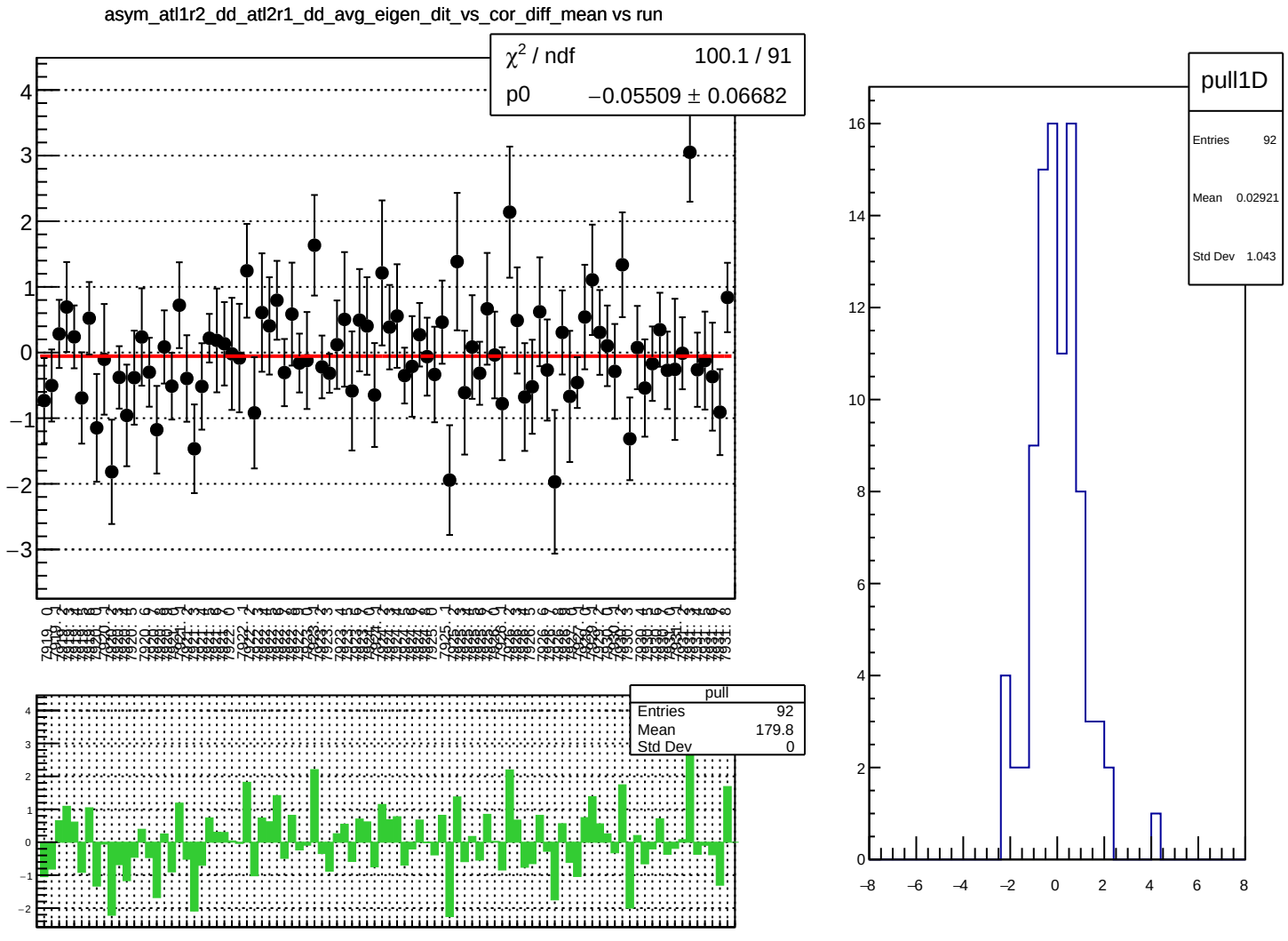

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.1 / 91
p0 −0.05509 ± 0.06681
pull
Entries 92
Mean 179.7
Std Dev 0
pull1D
Entries 92
Mean 0.02922
Std Dev 1.043

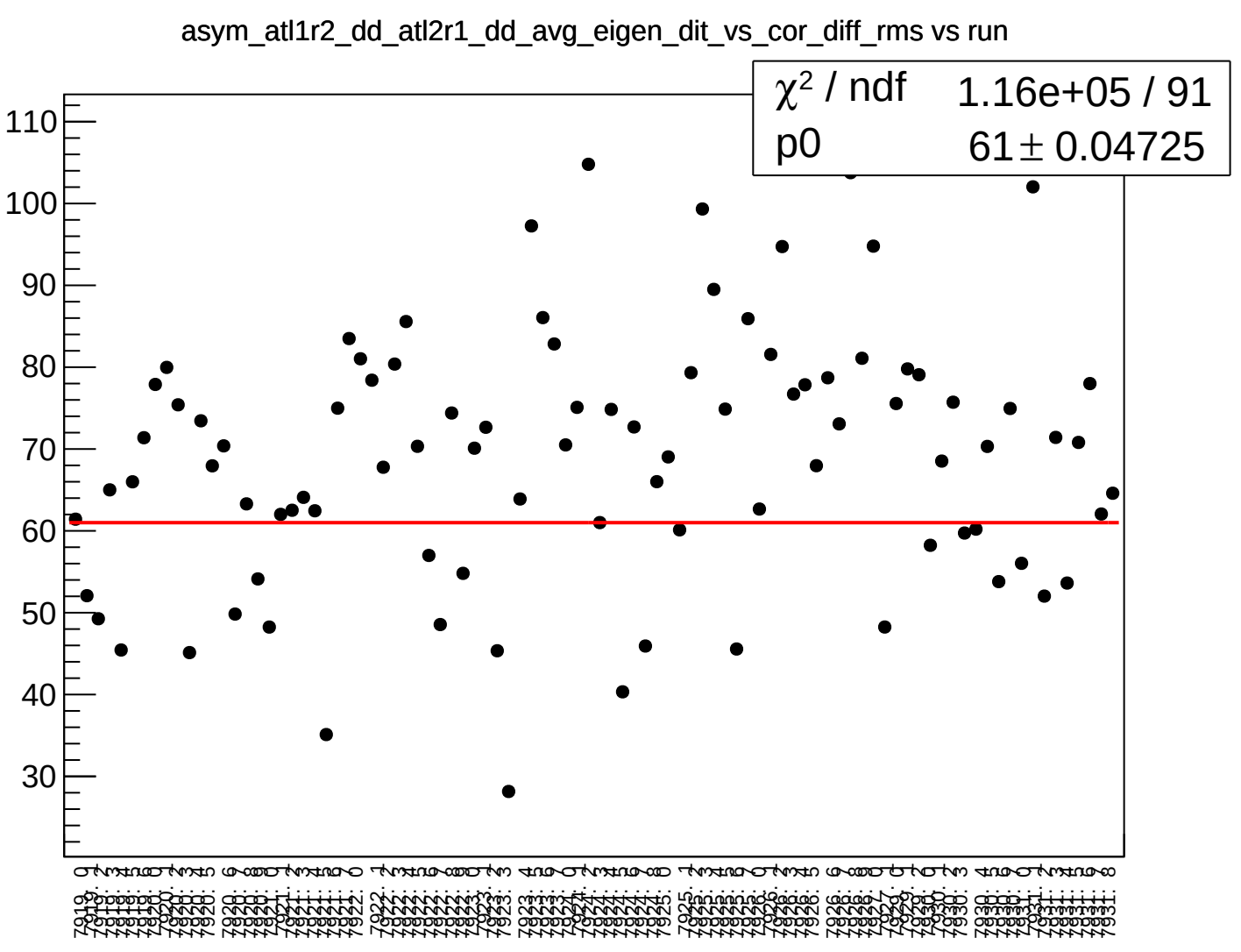

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.16e+05 / 91
p0 61 ± 0.04725
110
100
90
80
70
60
50
40
30

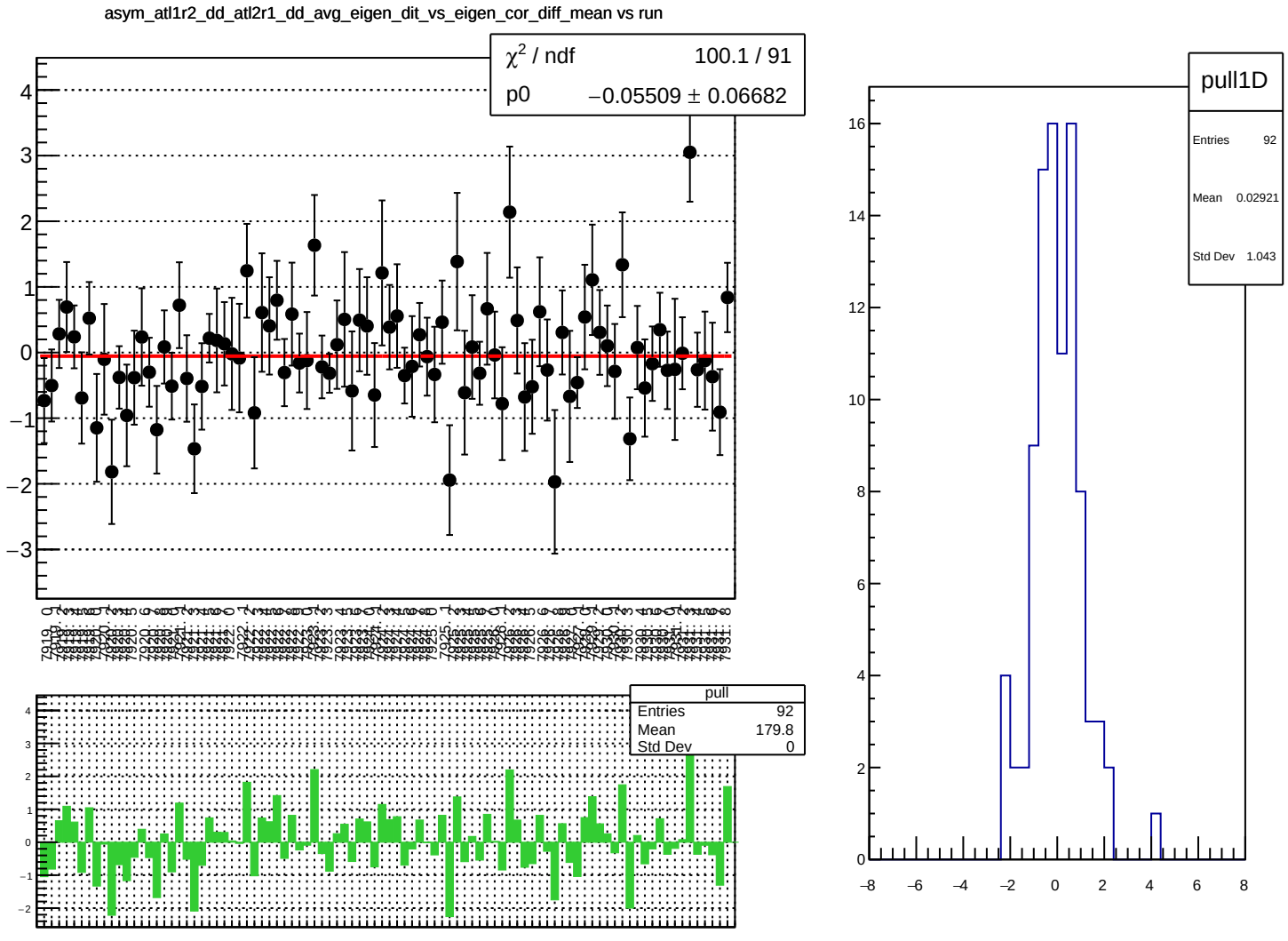

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.49 / 91
p0 −1.575e−05 ± 1.27e−05
0.4
0.2
0
−0.2
−0.4
pull
Entries 92
Mean −395.4
Std Dev 0
2
1
0
−1
−2

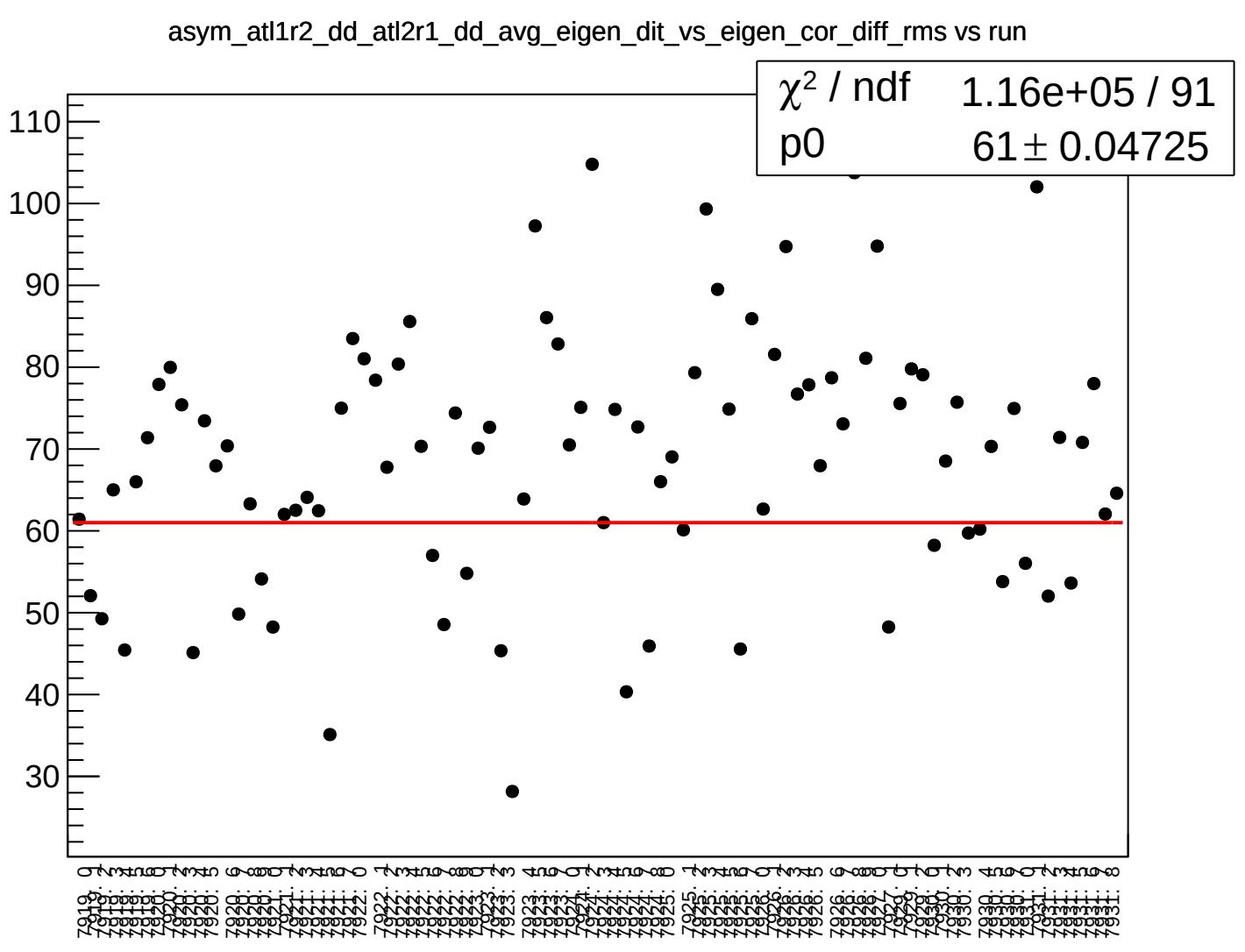

pull1D
Entries 92
Mean 0.004788
Std Dev 1.024
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

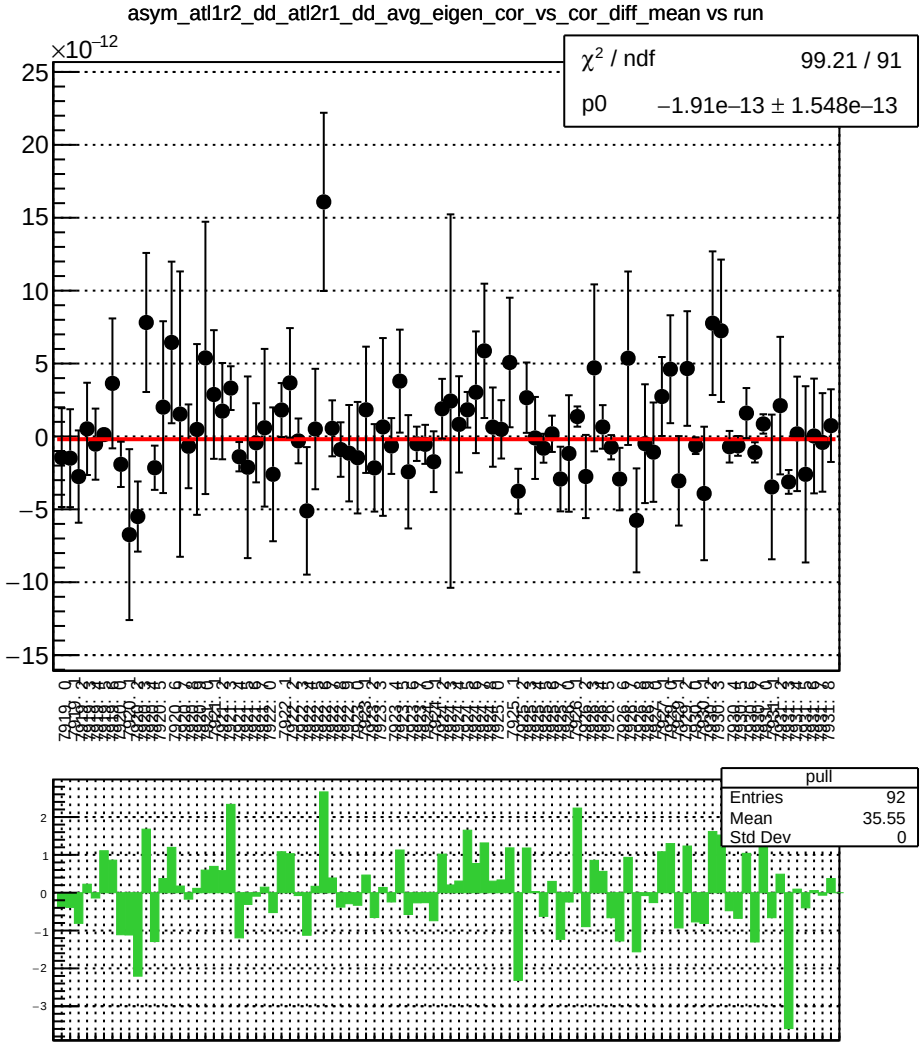

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2932 / 91
p0 0.01198 ± 8.979e−06
0.0145
0.014
0.0135
0.013
0.0125
0.012
0.0115
0.011
0.0105

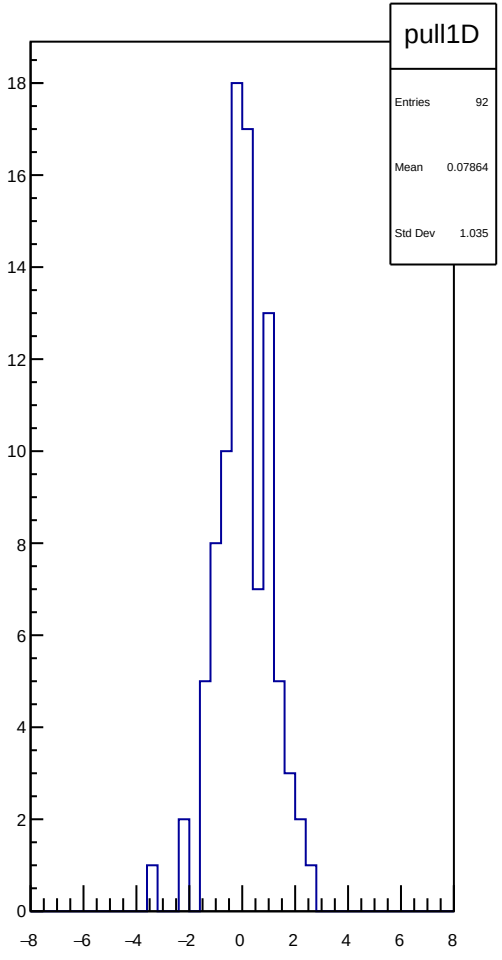

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 100.1 / 91
p0 −0.05509 ± 0.06682
pull
Entries 92
Mean 179.8
Std Dev 0
pull1D
Entries 92
Mean 0.02921
Std Dev 1.043

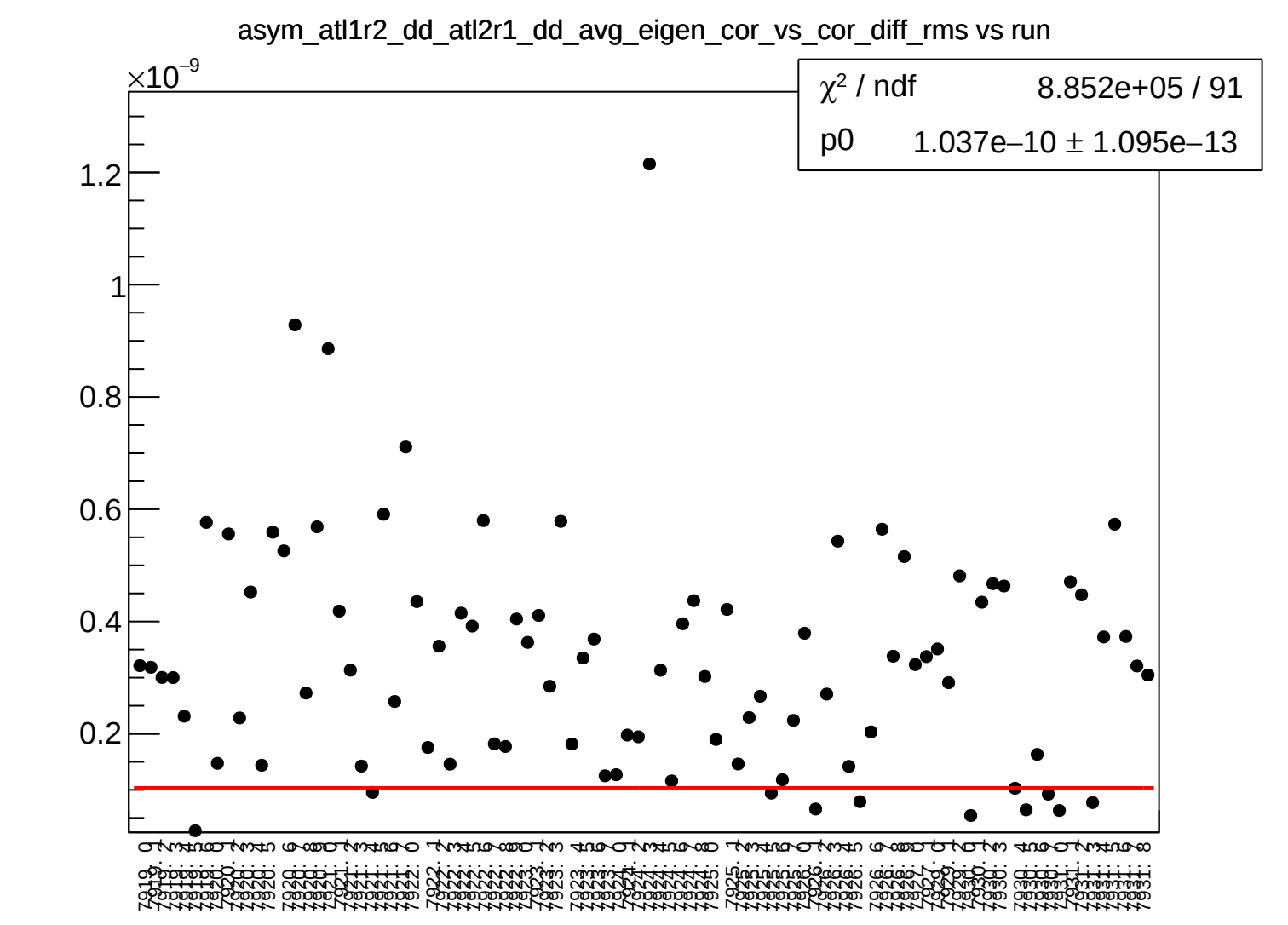

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.16e+05 / 91
p0 61 ± 0.04725
110
100
90
80
70
60
50
40
30

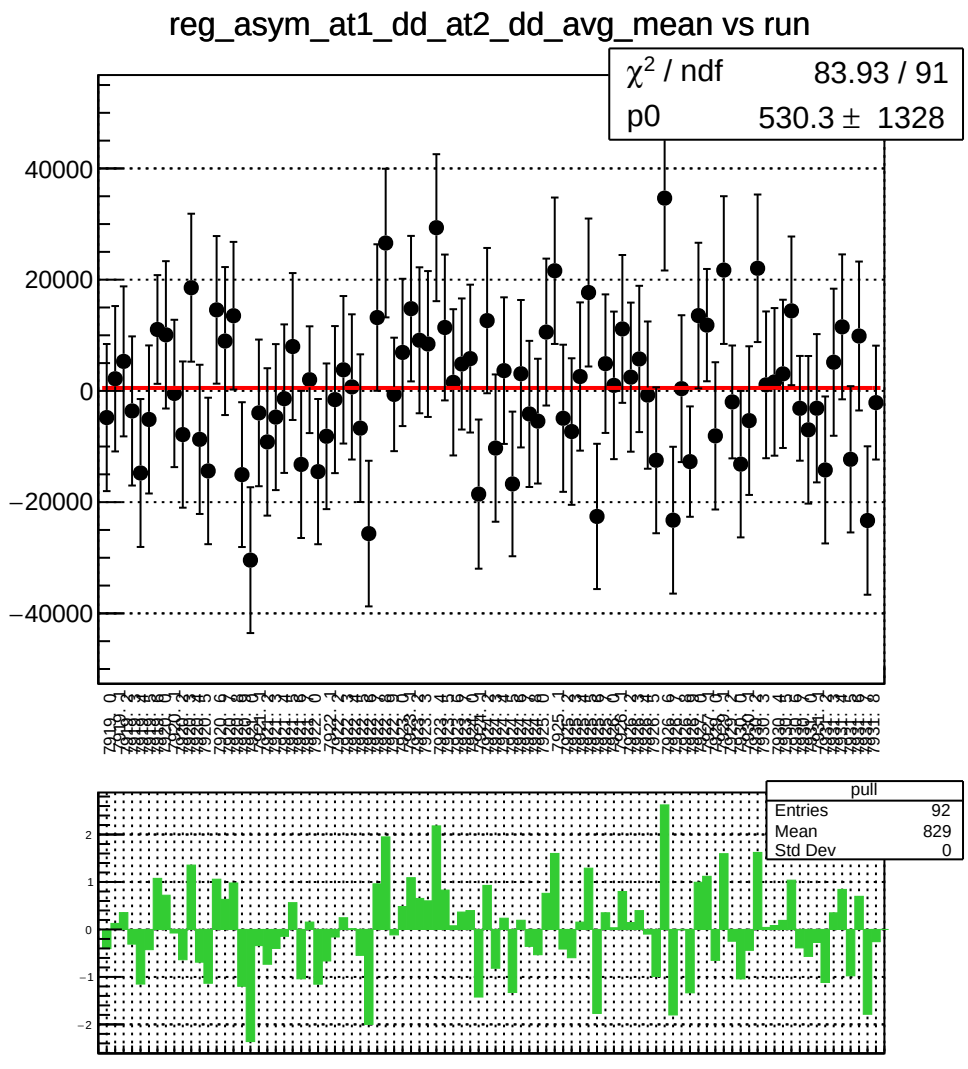

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.1 / 91
p0 −0.05509 ± 0.06682
pull
Entries 92
Mean 179.8
Std Dev 0
pull1D
Entries 92
Mean 0.02921
Std Dev 1.043

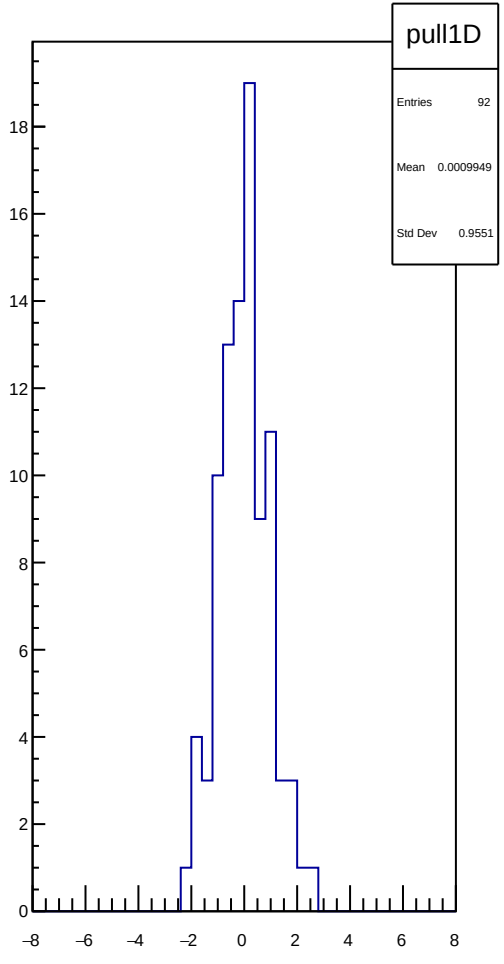

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.16e+05 / 91
p0 61 ± 0.04725
110
100
90
80
70
60
50
40
30

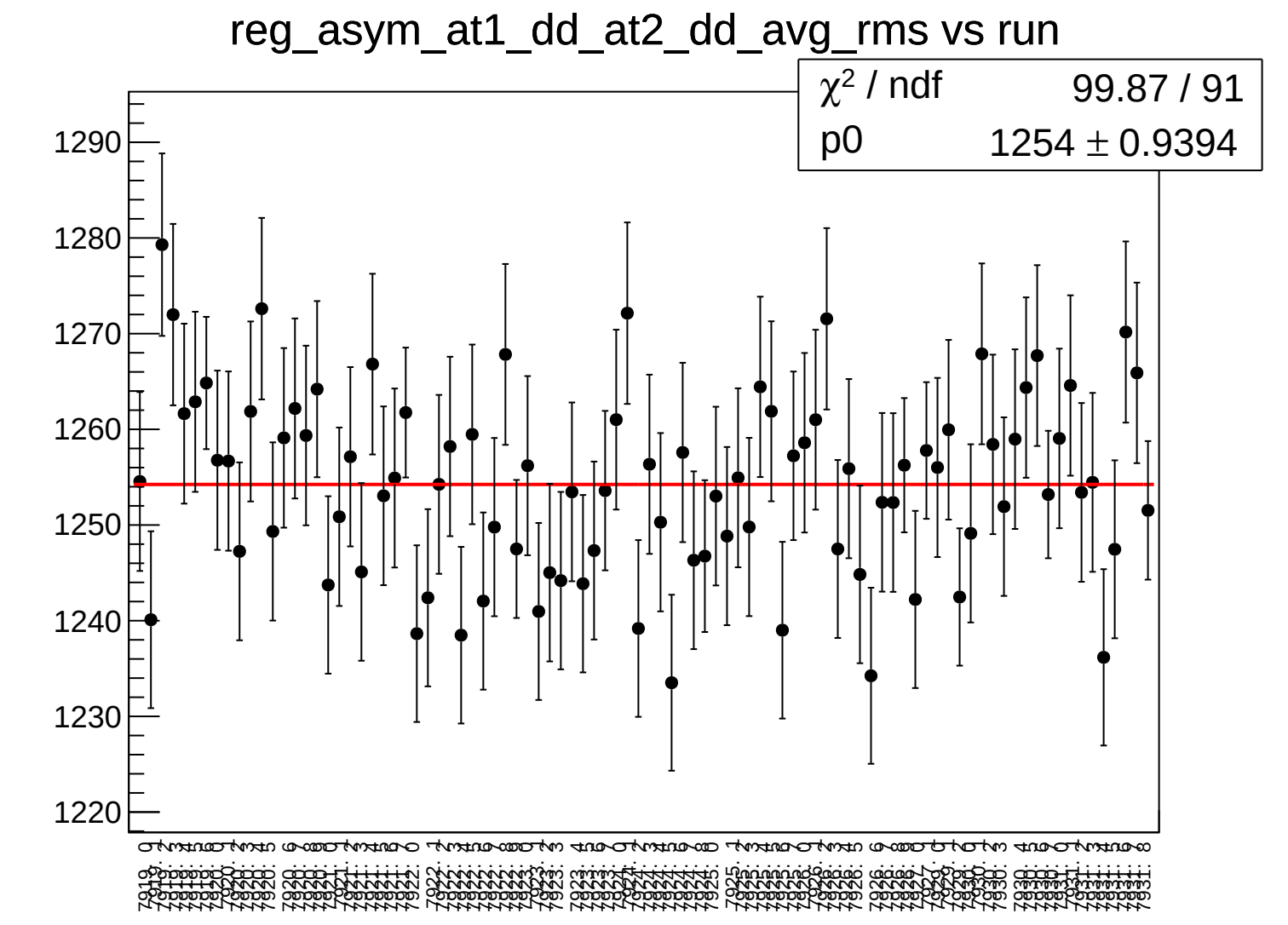

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.21 / 91
p0 −1.91e−13 ± 1.548e−13
pull
Entries 92
Mean 35.55
Std Dev 0

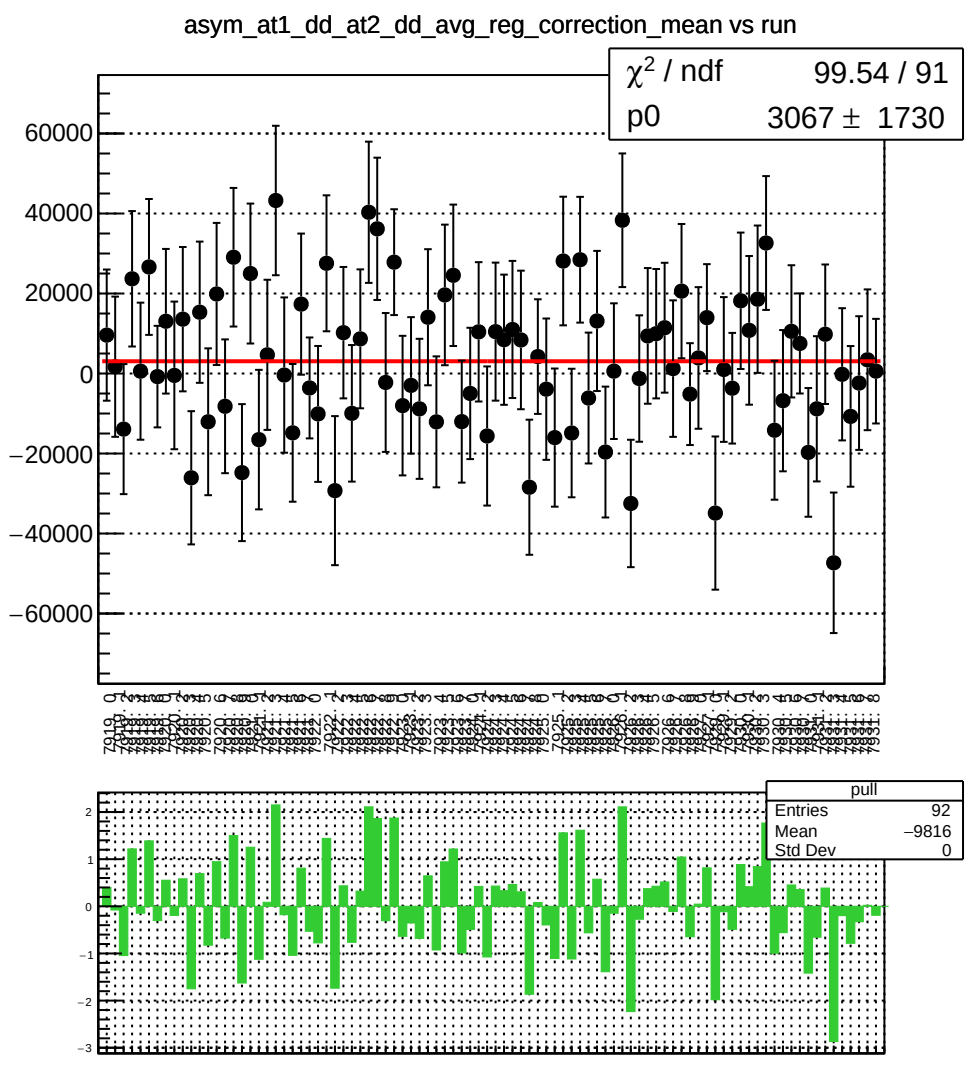

pull1D
Entries 92
Mean 0.07864
Std Dev 1.035

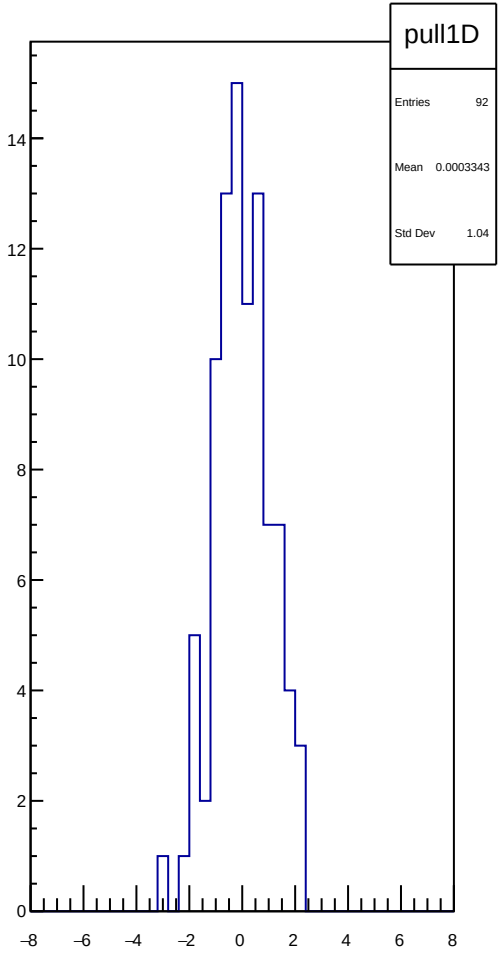

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.852e+05 / 91
p0 1.037e−10 ± 1.095e−13
1.2
1
0.8
0.6
0.4
0.2

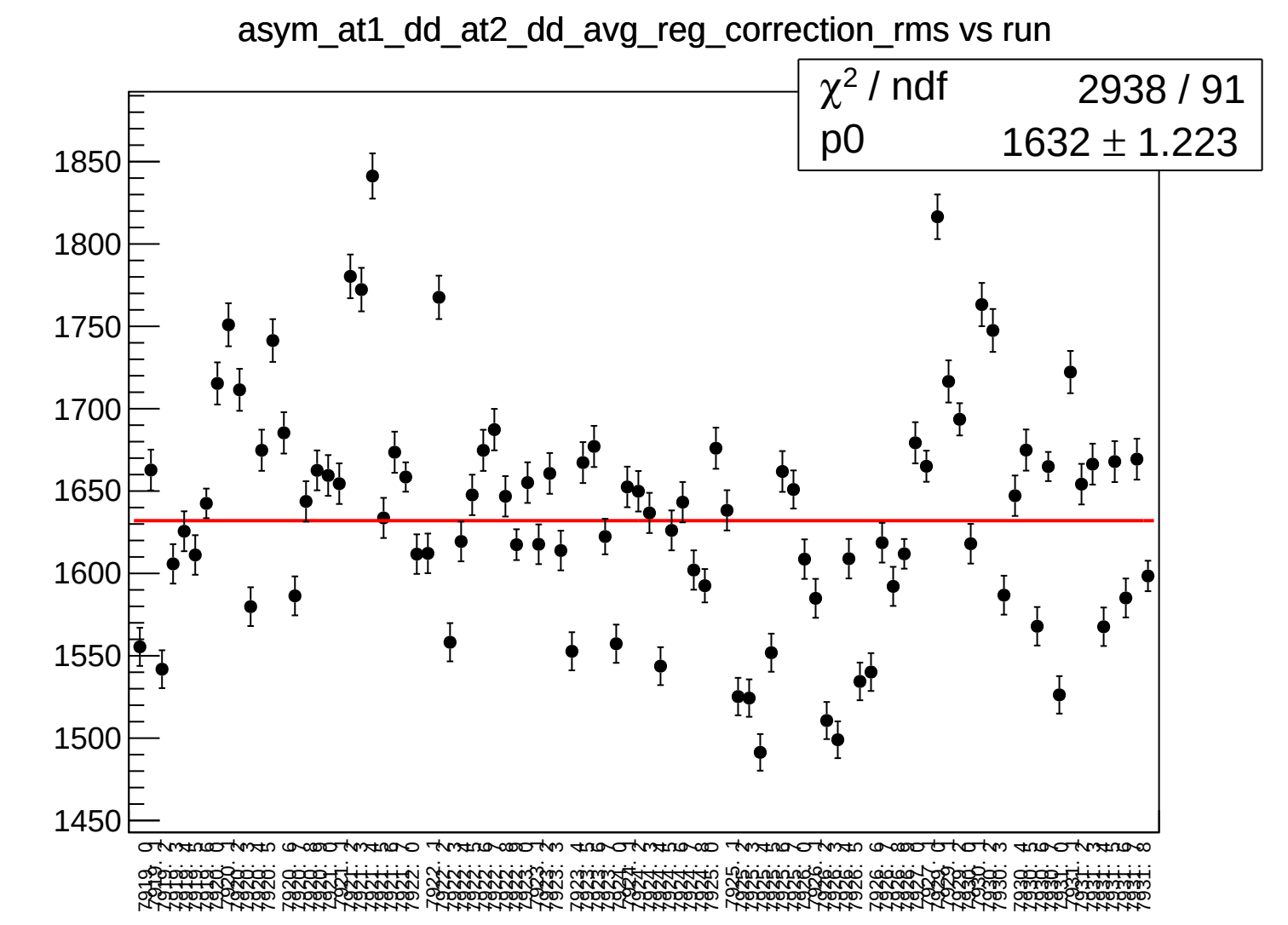

reg_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 83.93 / 91
p0 530.3 ± 1328
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 829
Std Dev 0
2
1
0
−1
−2

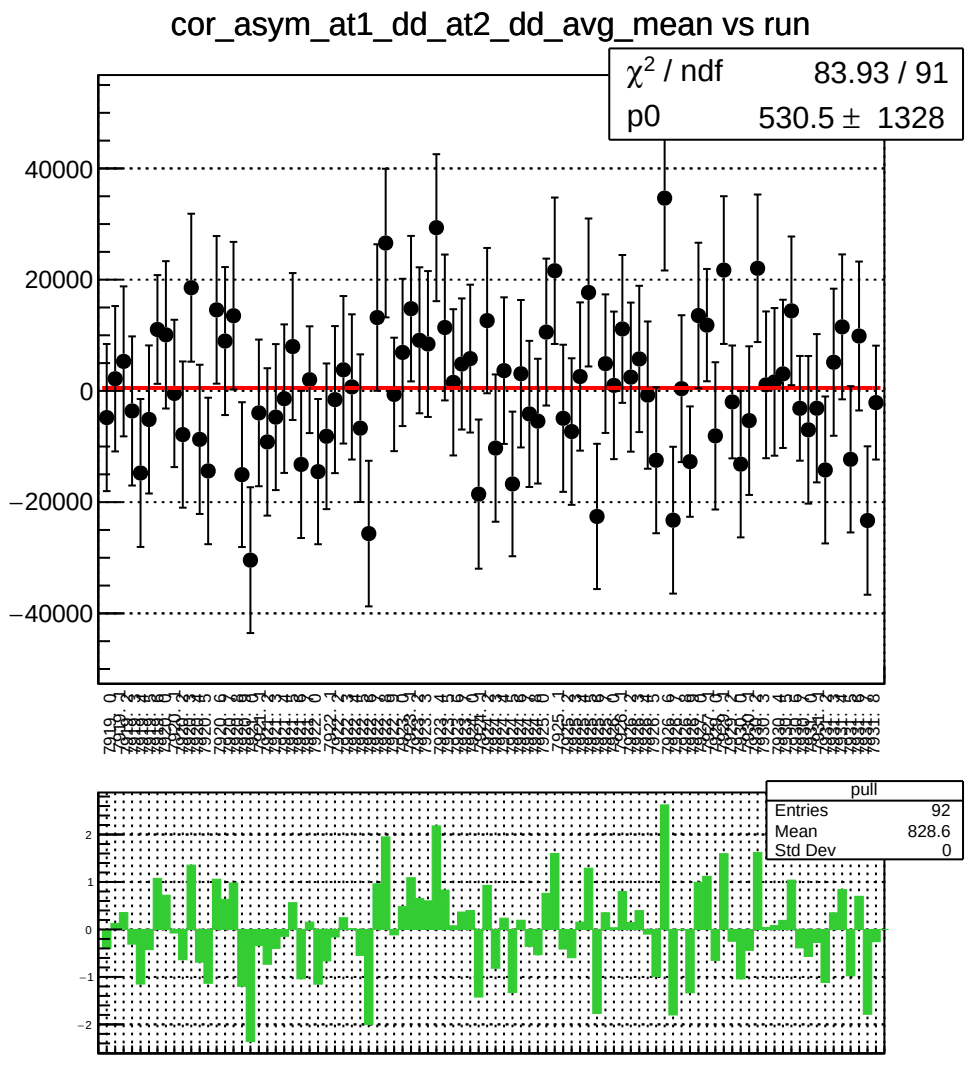

pull1D
Entries 92
Mean 0.0009949
Std Dev 0.9551
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

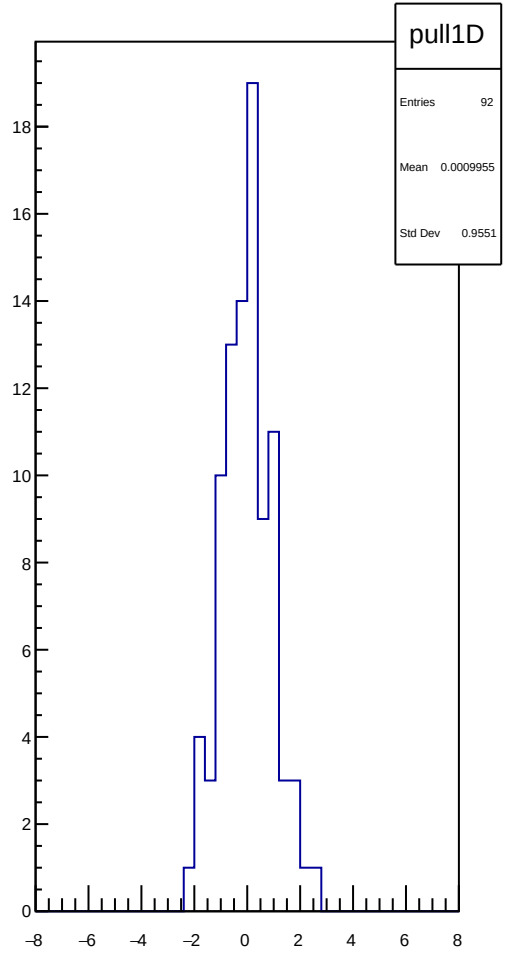

reg_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 99.87 / 91
p0 1254 ± 0.9394
1290
1280
1270
1260
1250
1240
1230
1220

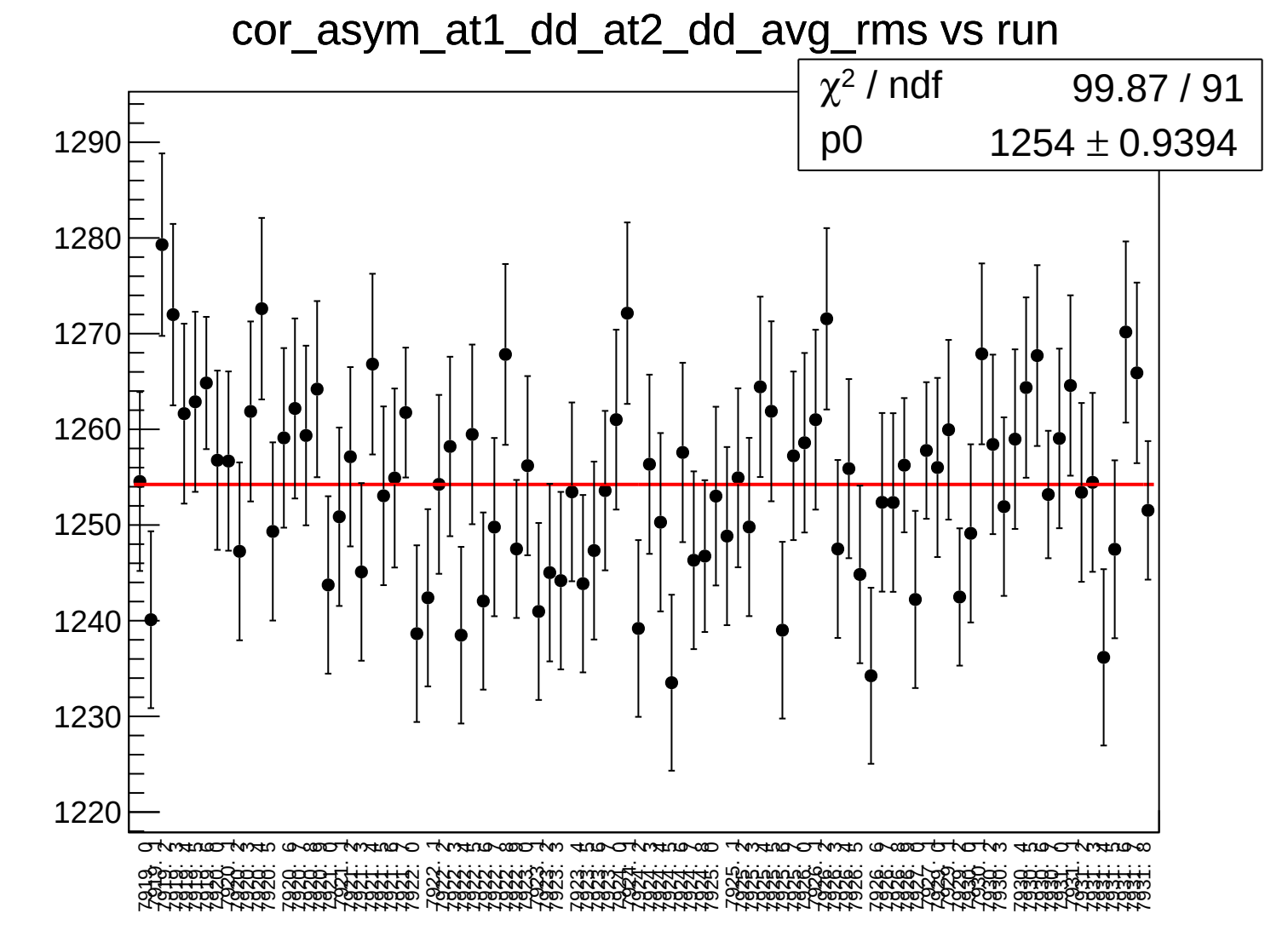

asym_at1_dd_at2_dd_avg_reg_correction_mean vs run
χ² / ndf 99.54 / 91
p0 3067 ± 1730
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −9816
Std Dev 0
2
1
0
−1
−2
−3

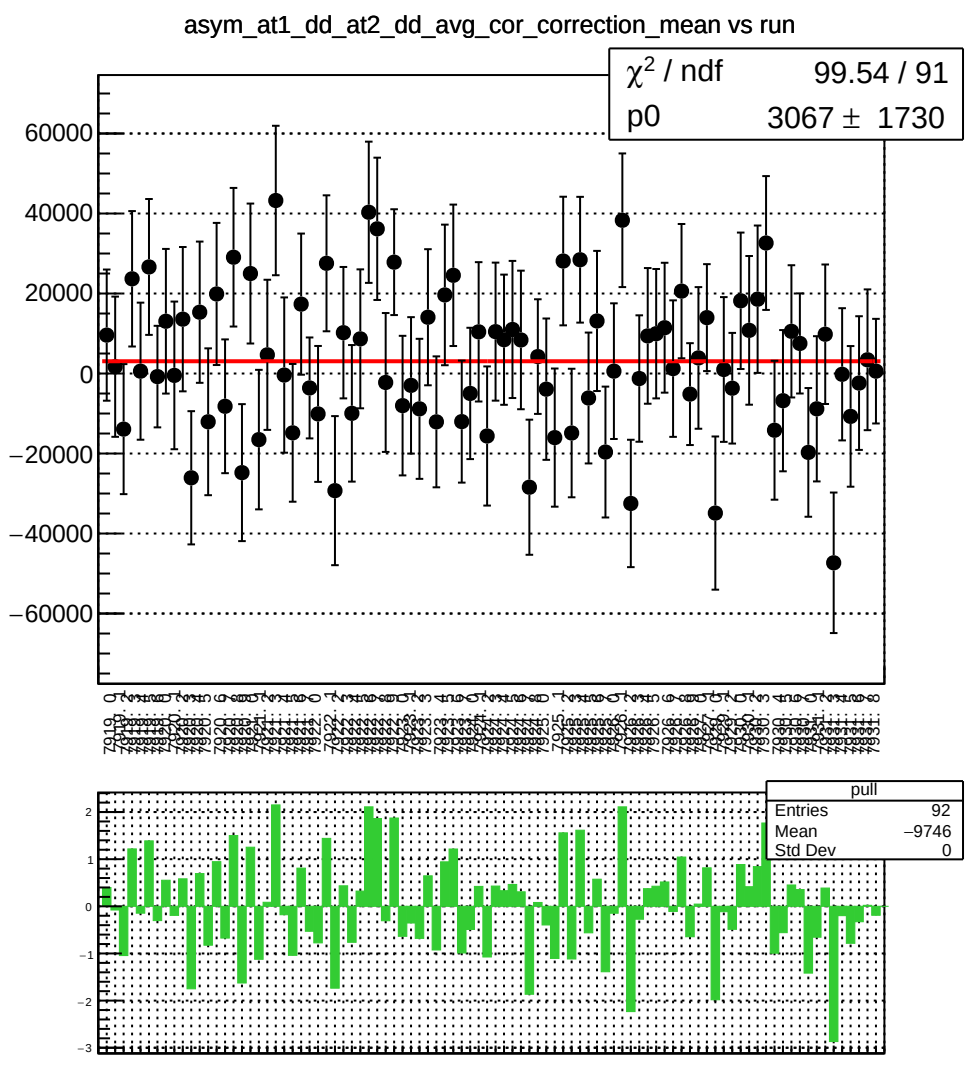

pull1D
Entries 92
Mean 0.0003343
Std Dev 1.04
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

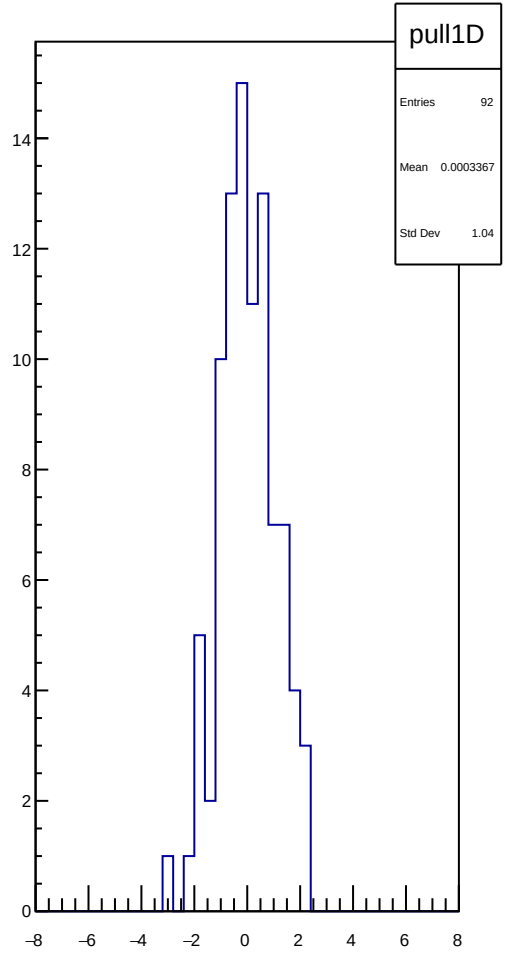

asym_at1_dd_at2_dd_avg_reg_correction_rms vs run
χ² / ndf 2938 / 91
p0 1632 ± 1.223
1850
1800
1750
1700
1650
1600
1550
1500
1450

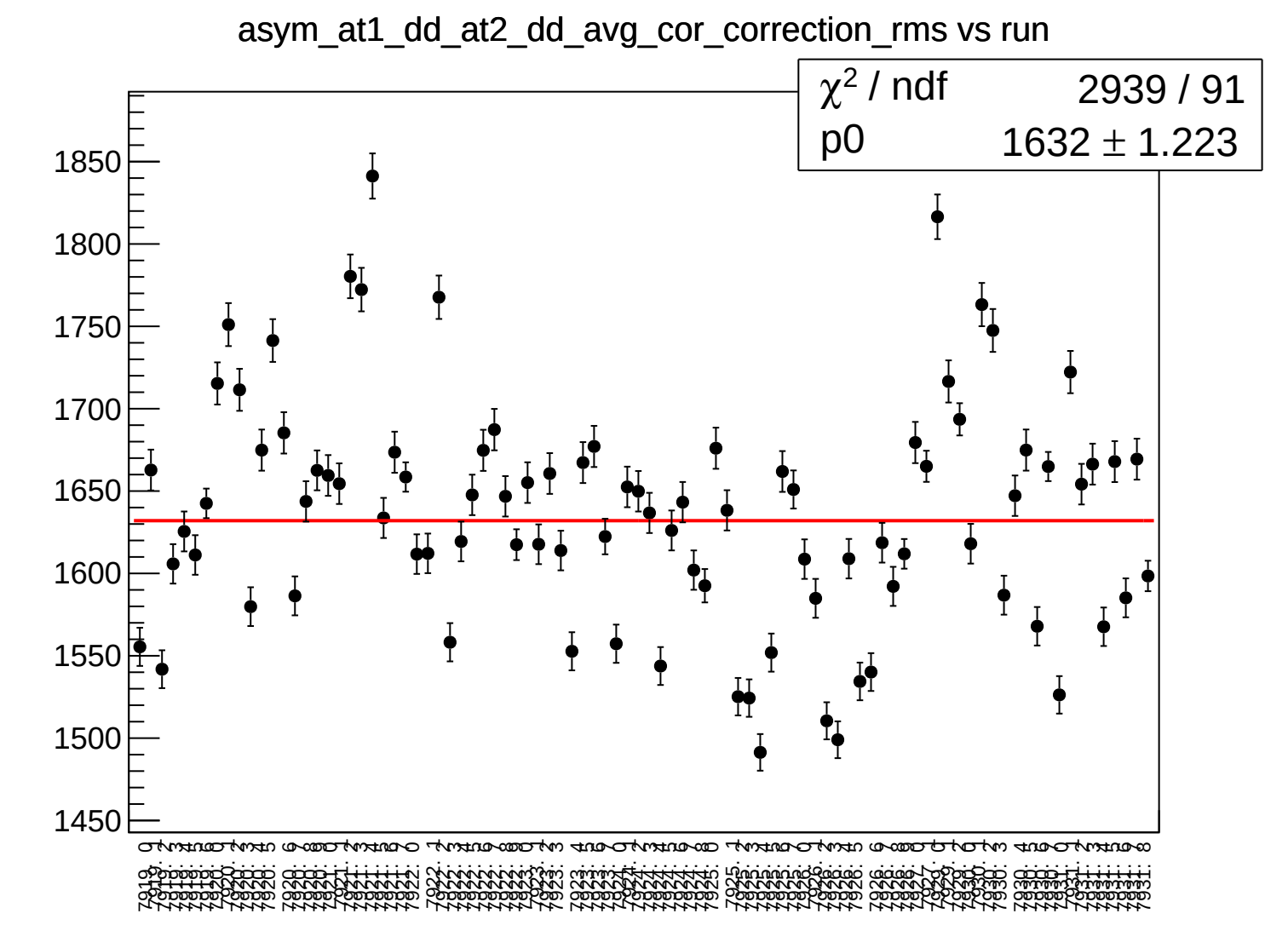

cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 83.93 / 91
p0 530.5 ± 1328
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 828.6
Std Dev 0
2
1
0
−1
−2

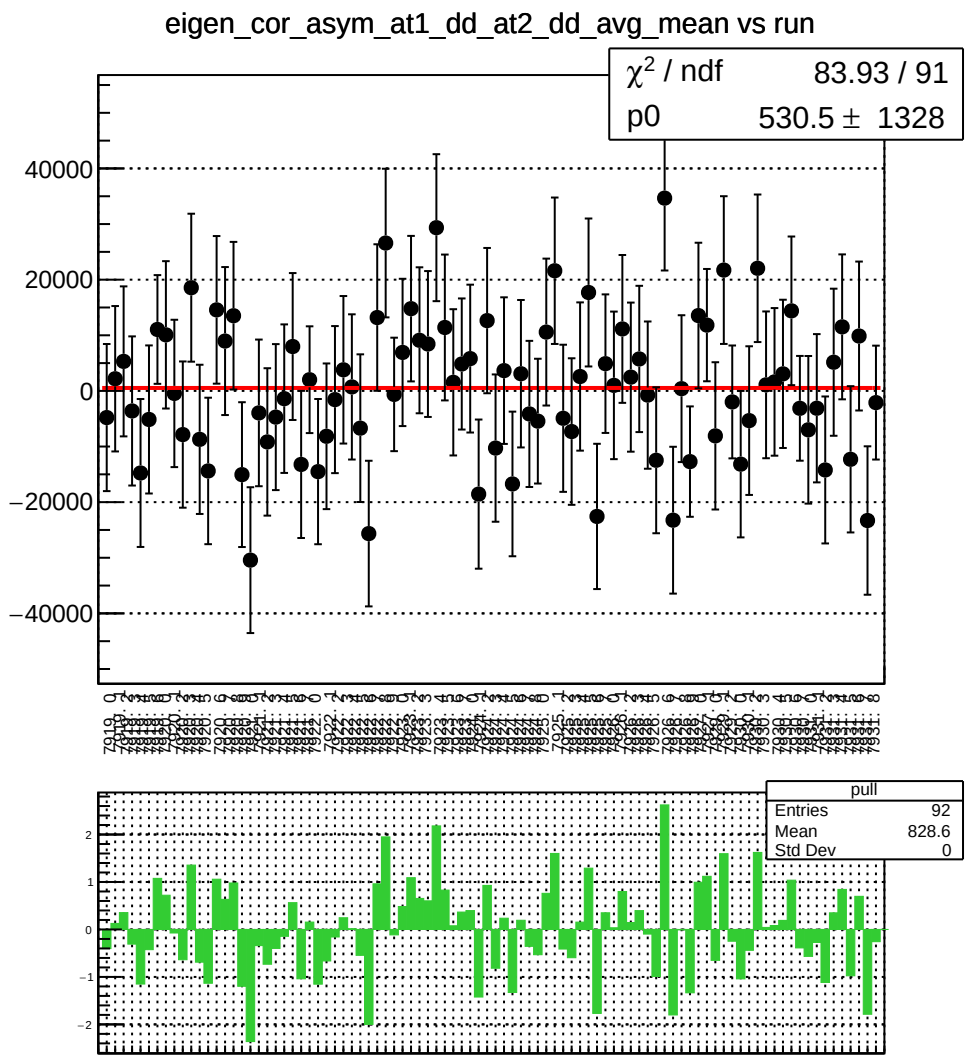

pull1D
Entries 92
Mean 0.0009955
Std Dev 0.9551
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

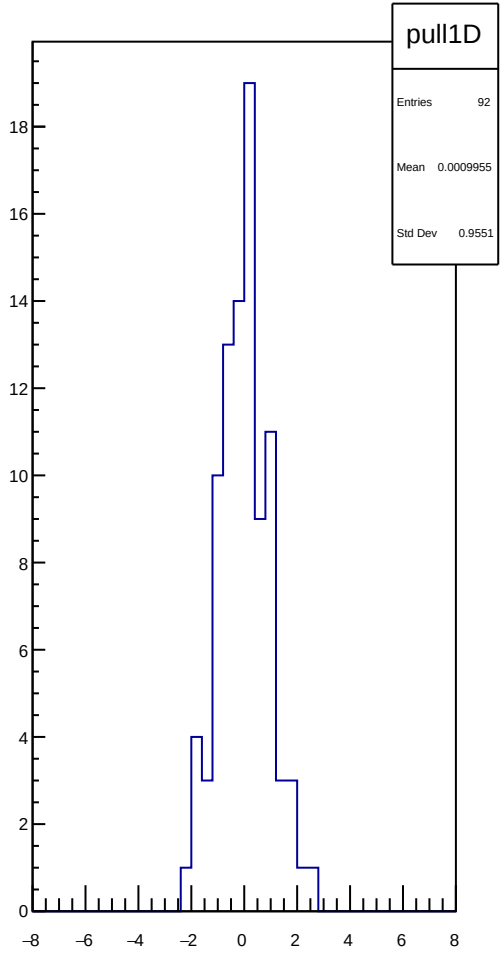

cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 99.87 / 91
p0 1254 ± 0.9394
1290
1280
1270
1260
1250
1240
1230
1220

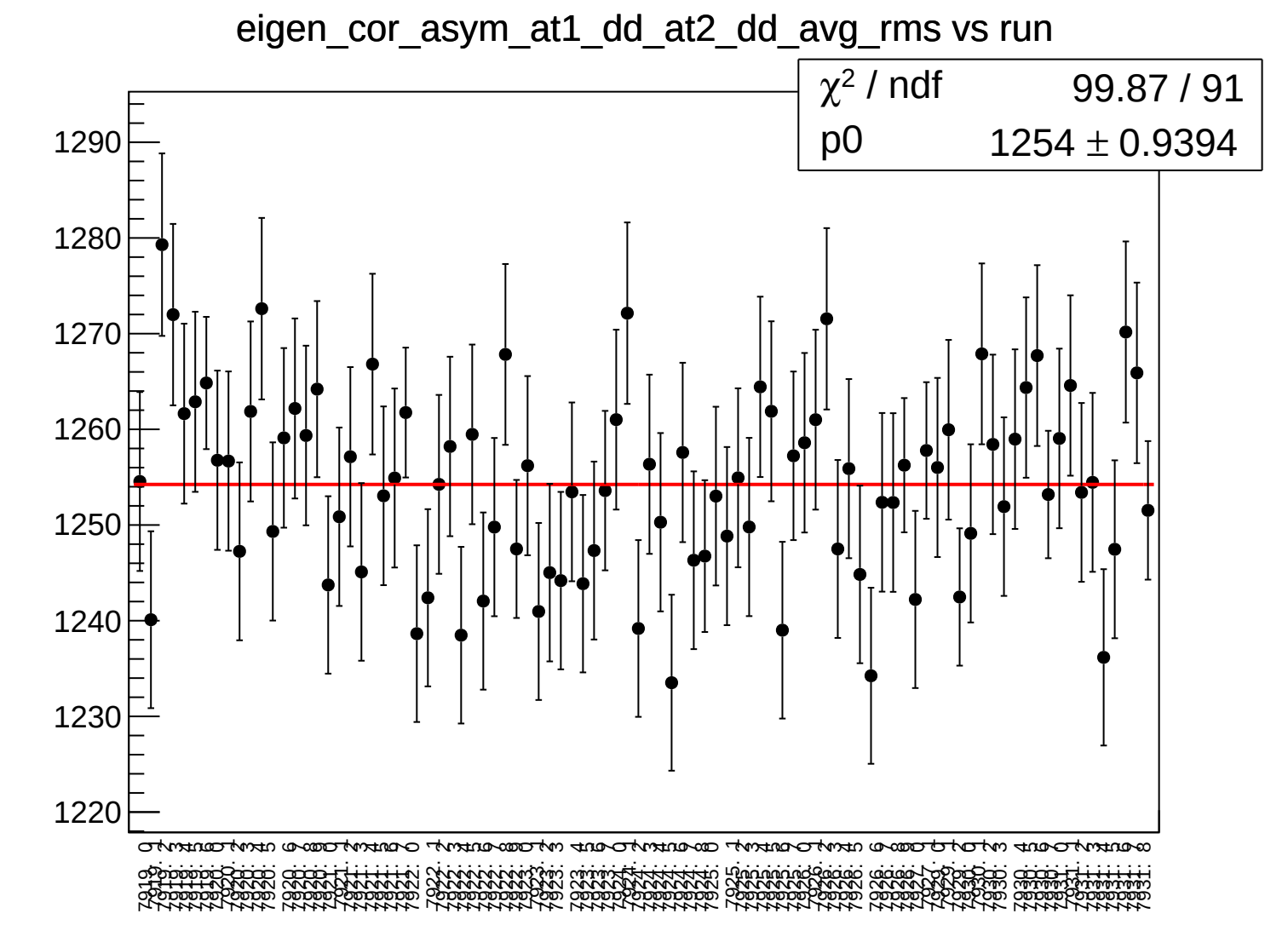

asym_at1_dd_at2_dd_avg_cor_correction_mean vs run
χ² / ndf 99.54 / 91
p0 3067 ± 1730
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −9746
Std Dev 0
2
1
0
−1
−2
−3

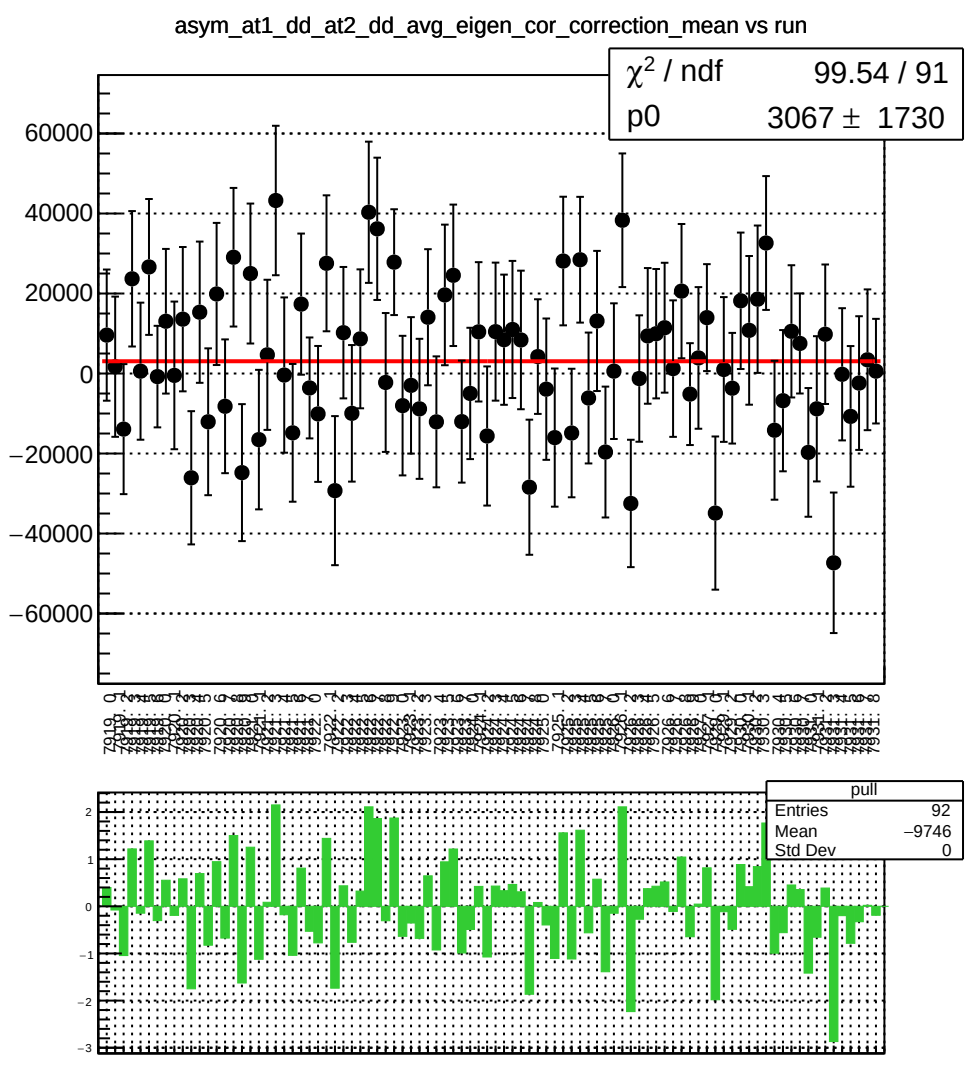

pull1D
Entries 92
Mean 0.0003367
Std Dev 1.04
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

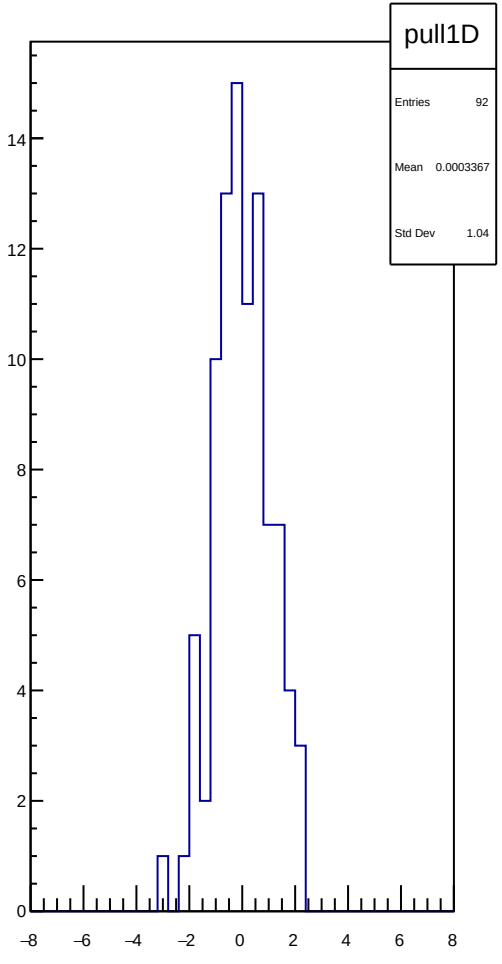

asym_at1_dd_at2_dd_avg_cor_correction_rms vs run
χ² / ndf 2939 / 91
p0 1632 ± 1.223
1850
1800
1750
1700
1650
1600
1550
1500
1450

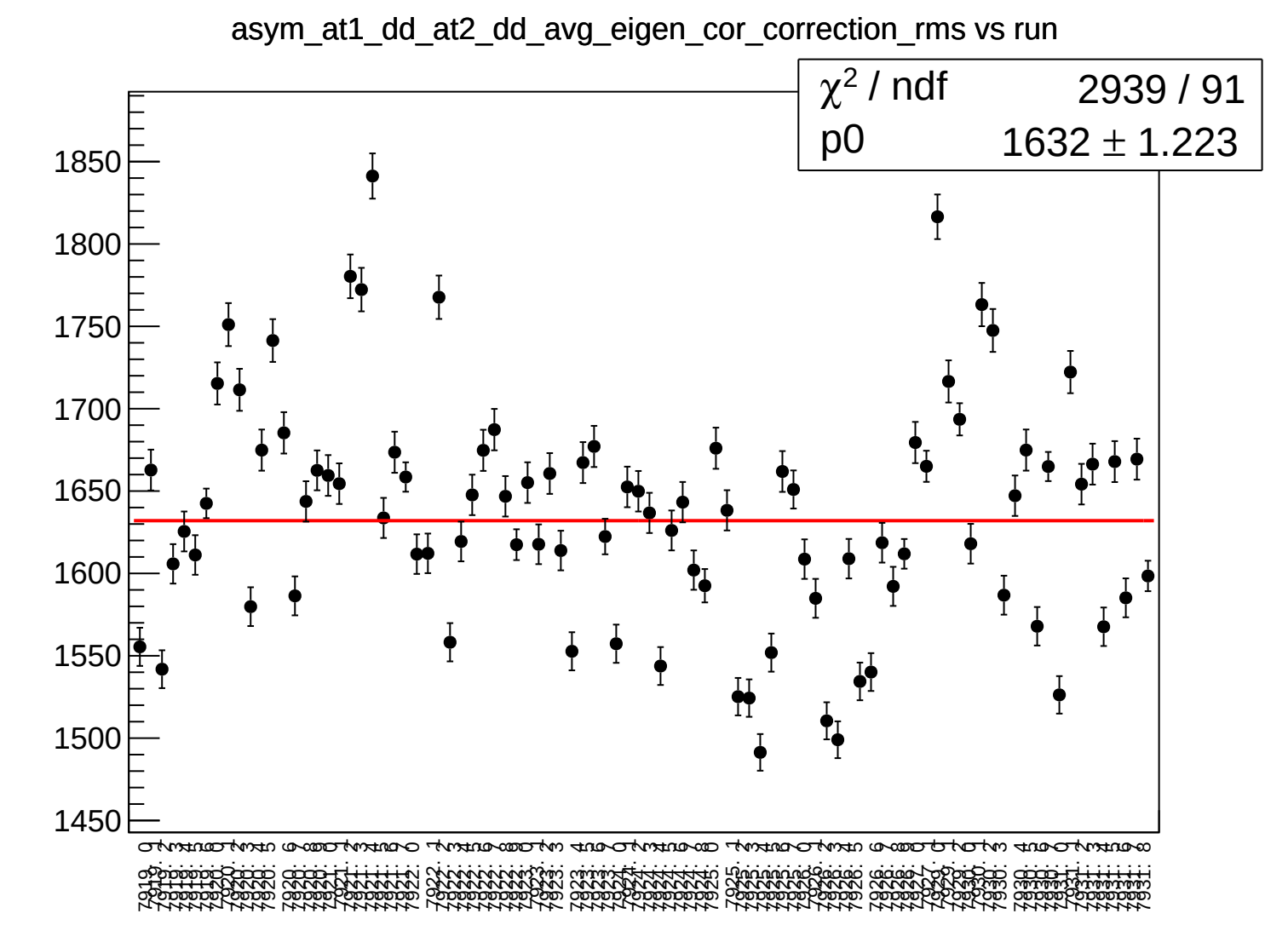

eigen_cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 83.93 / 91
p0 530.5 ± 1328
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 828.6
Std Dev 0
2
1
0
−1
−2

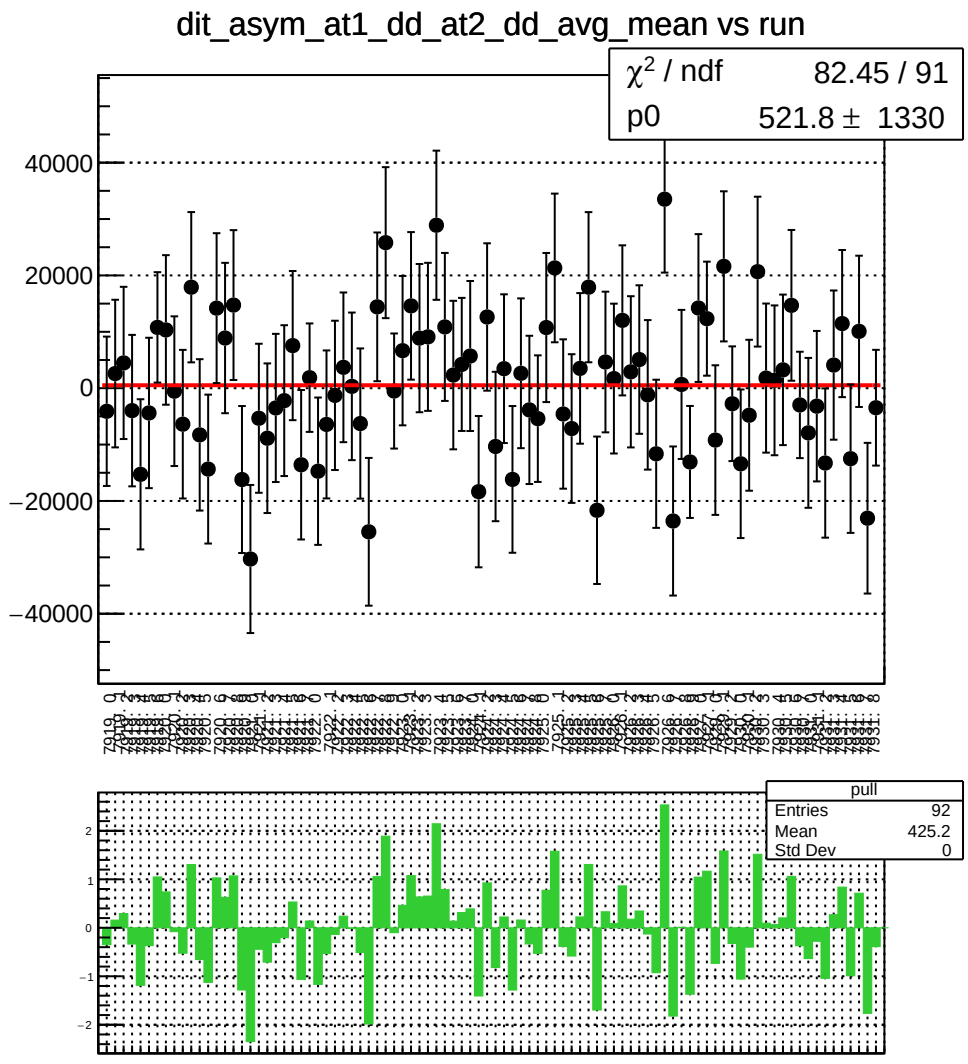

pull1D
Entries 92
Mean 0.0009955
Std Dev 0.9551
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

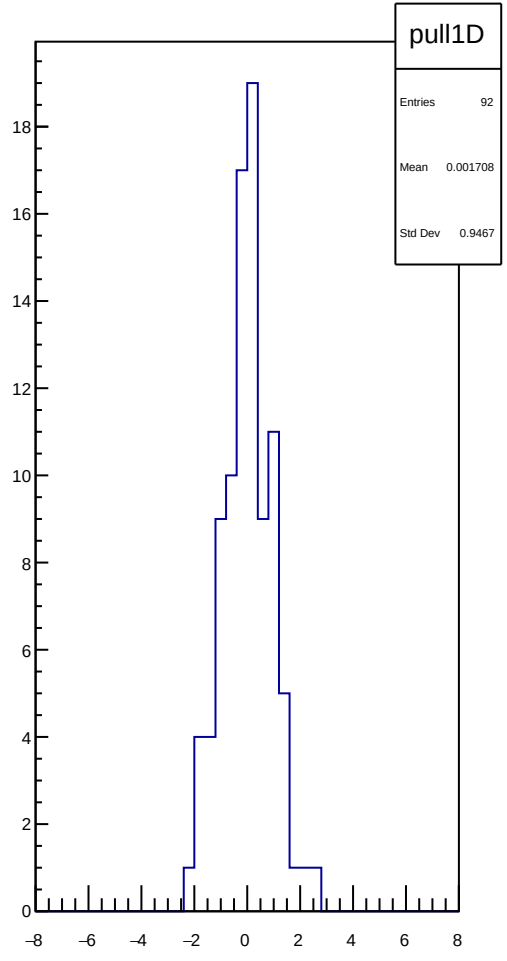

eigen_cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 99.87 / 91
p0 1254 ± 0.9394
1290
1280
1270
1260
1250
1240
1230
1220

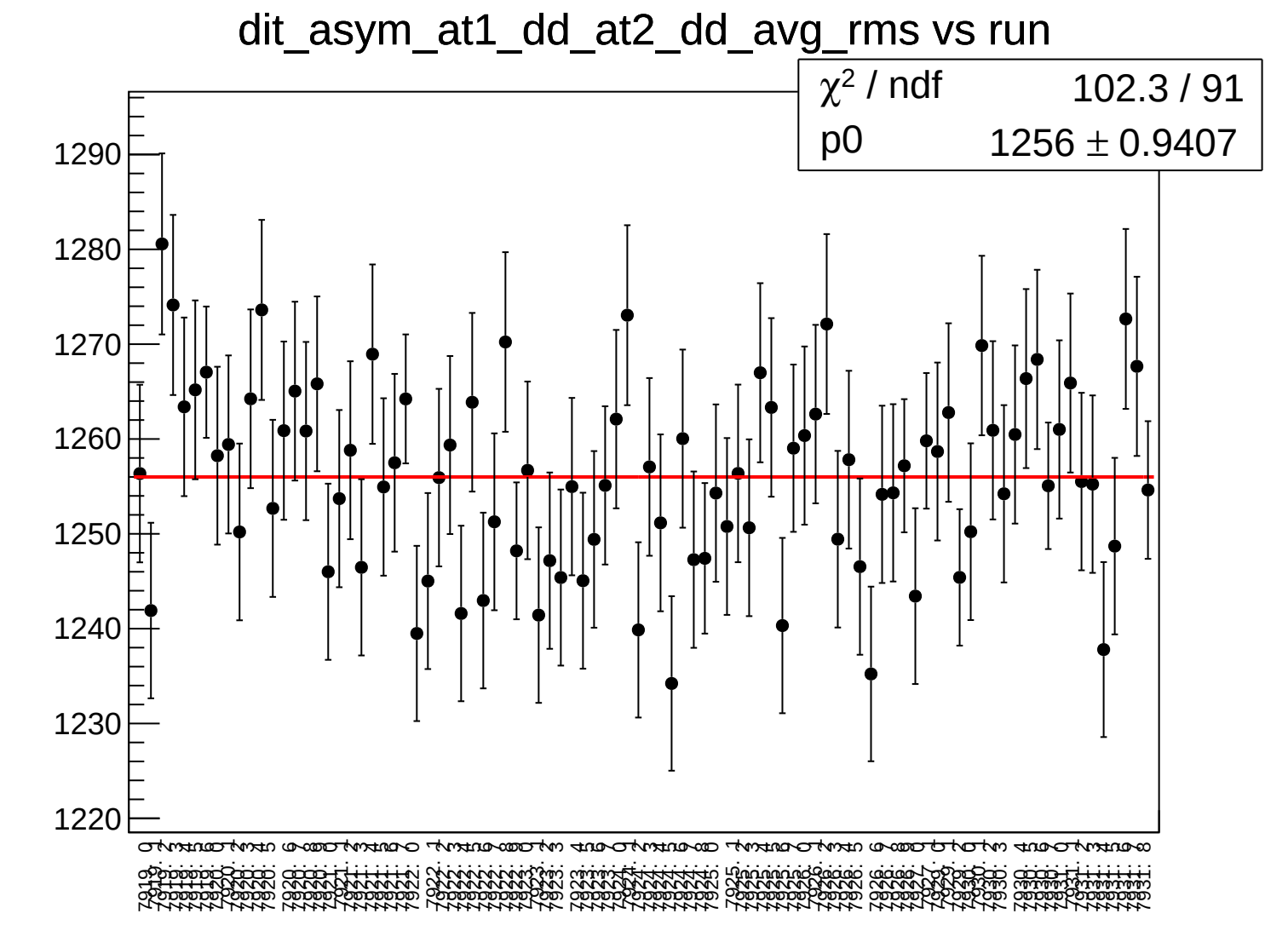

asym_at1_dd_at2_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 99.54 / 91
p0 3067 ± 1730
pull
Entries 92
Mean −9746
Std Dev 0

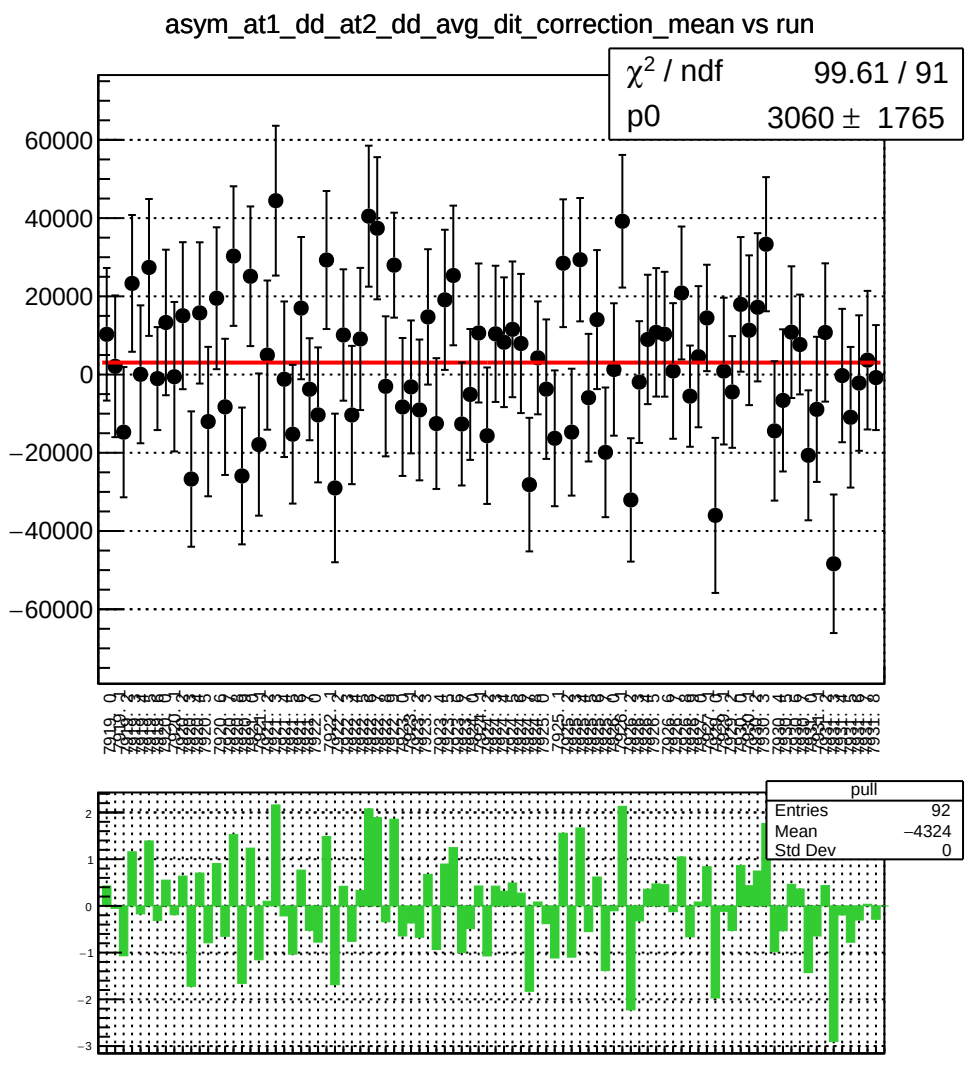

pull1D
Entries 92
Mean 0.0003367
Std Dev 1.04

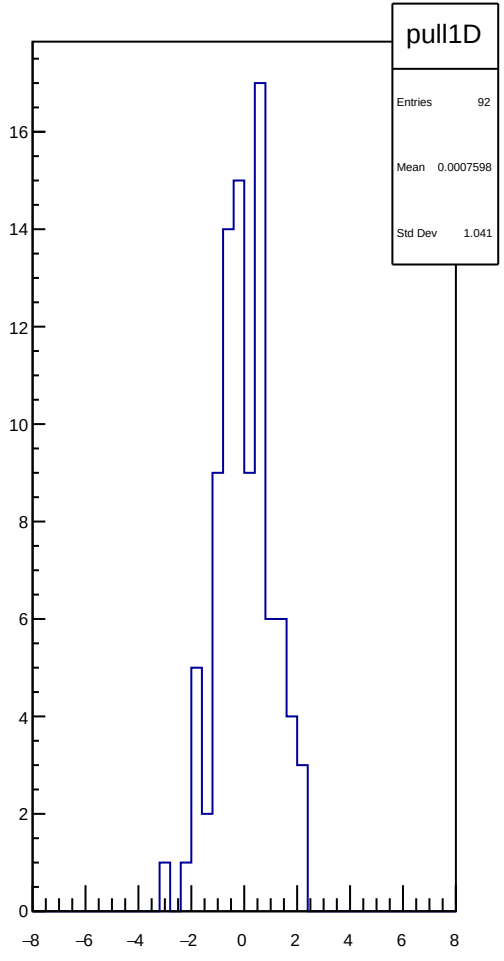

asym_at1_dd_at2_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 2939 / 91
p0 1632 ± 1.223
1850
1800
1750
1700
1650
1600
1550
1500
1450

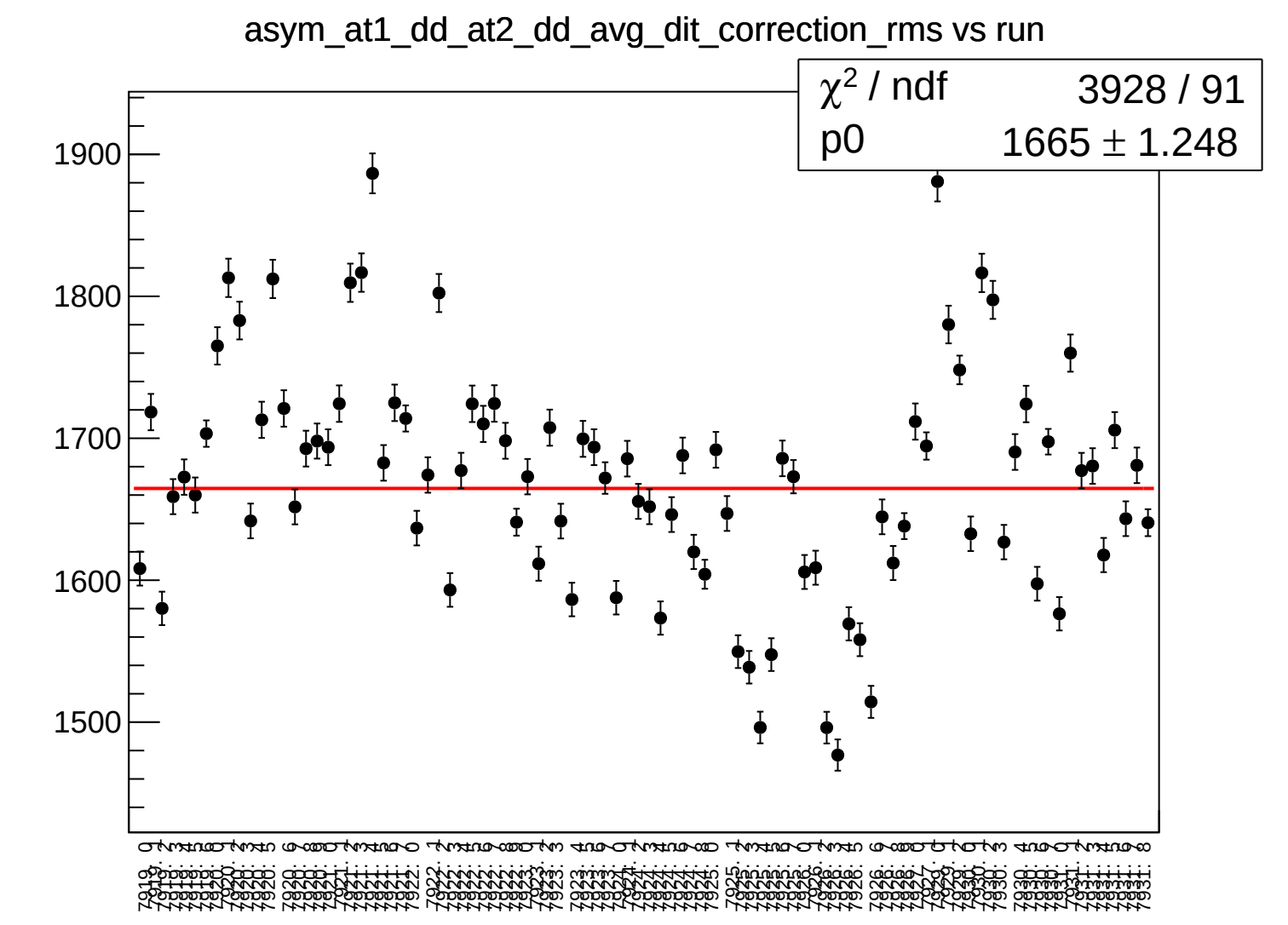

dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 82.45 / 91
p0 521.8 ± 1330
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 425.2
Std Dev 0
2
1
0
−1
−2

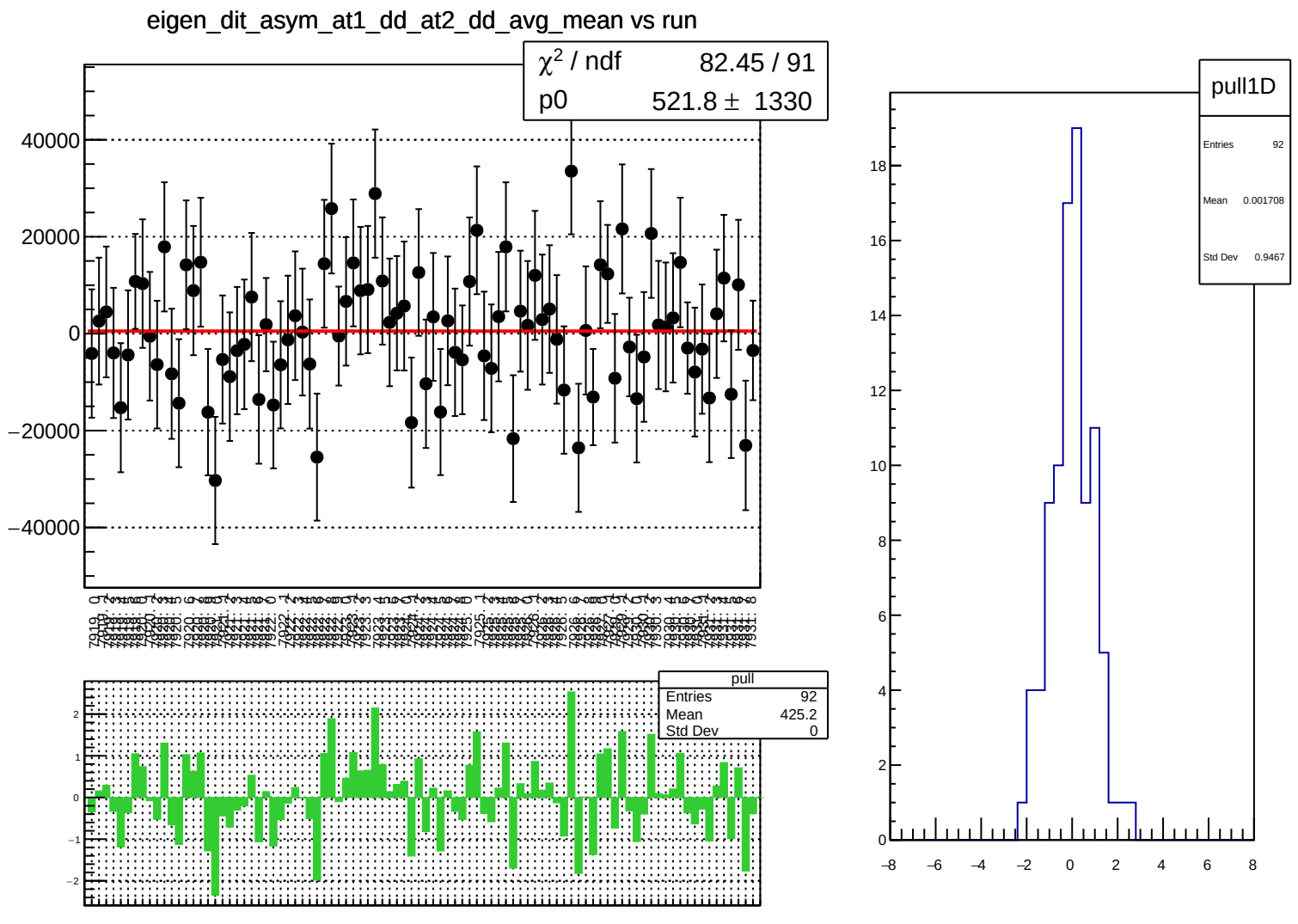

pull1D
Entries 92
Mean 0.001708
Std Dev 0.9467
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

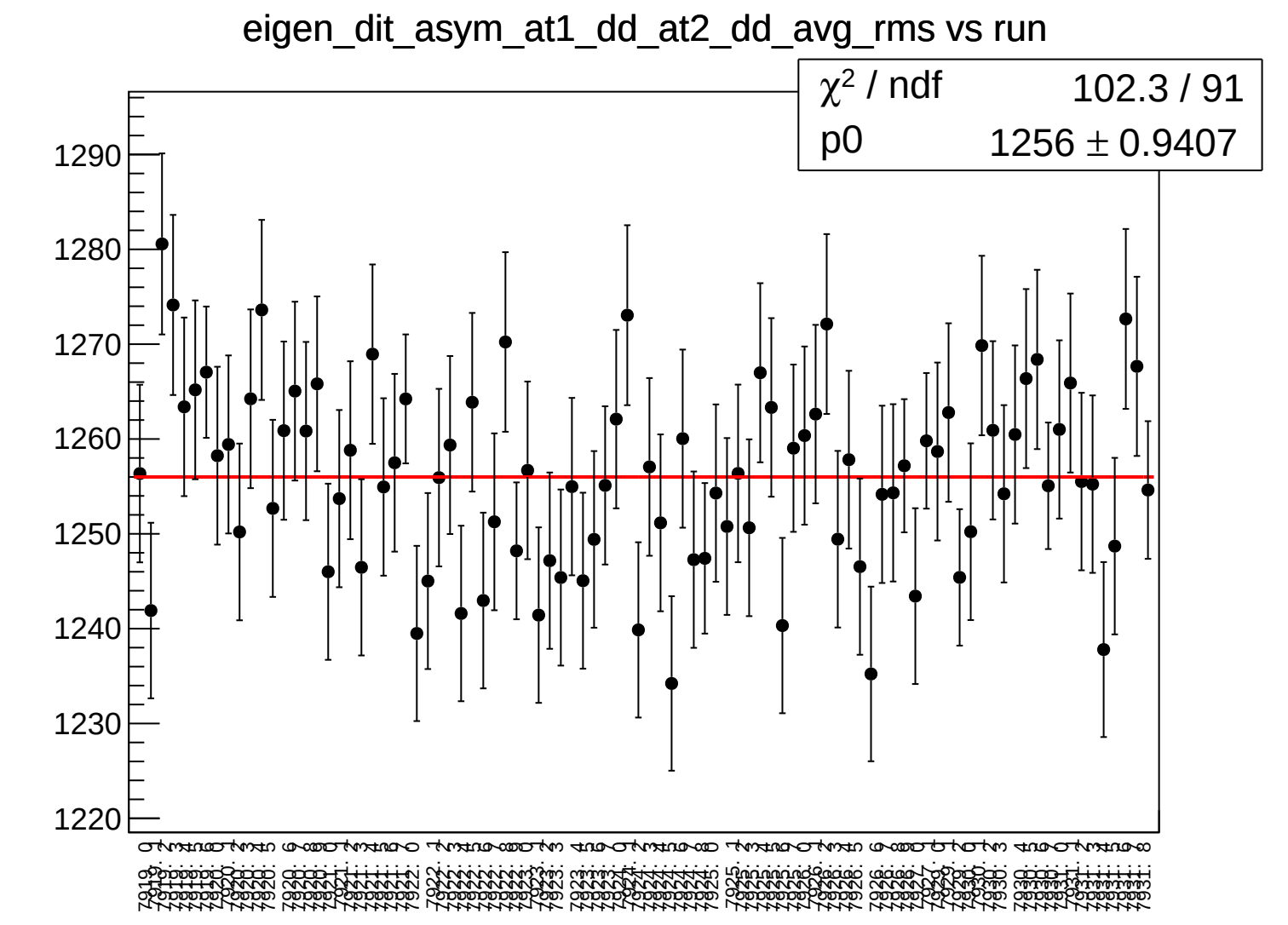

dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 102.3 / 91
p0 1256 ± 0.9407
1290
1280
1270
1260
1250
1240
1230
1220

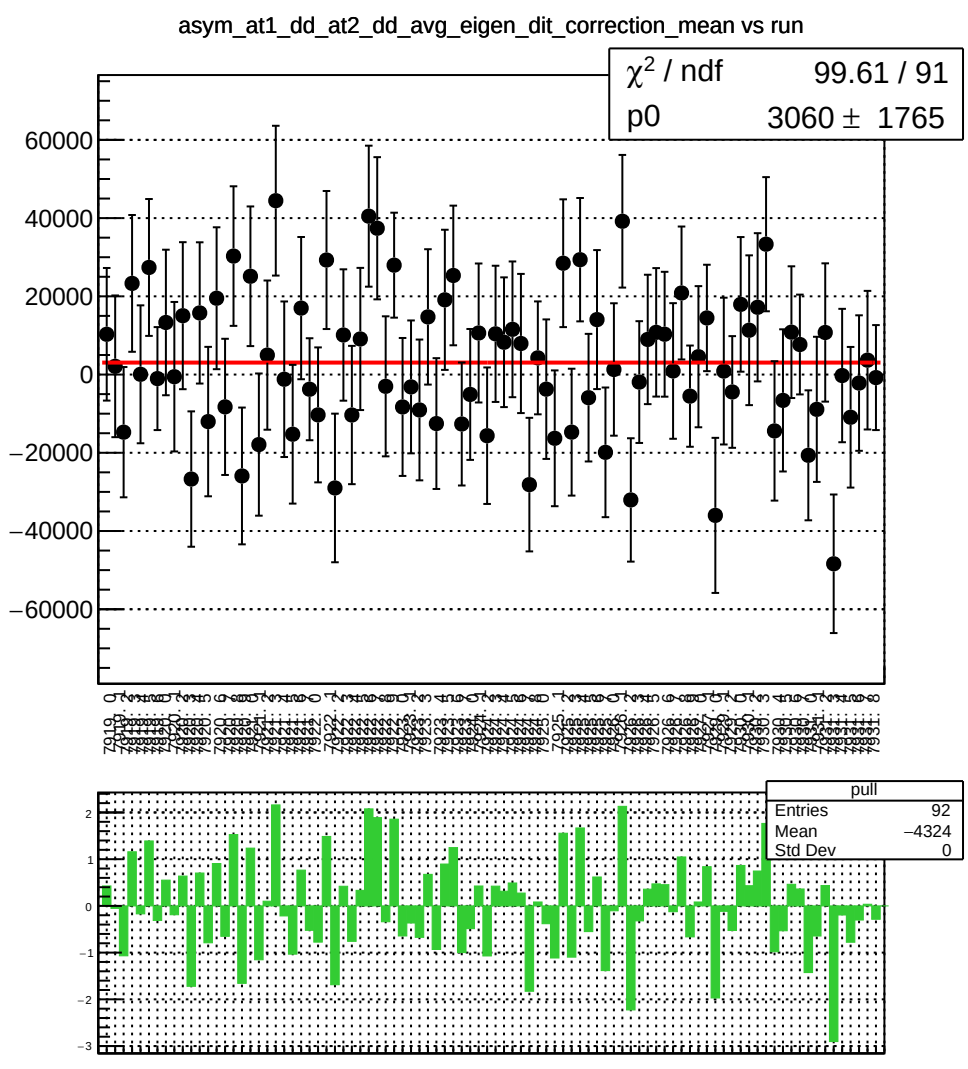

asym_at1_dd_at2_dd_avg_dit_correction_mean vs run
χ² / ndf 99.61 / 91
p0 3060 ± 1765
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −4324
Std Dev 0
2
1
0
−1
−2
−3

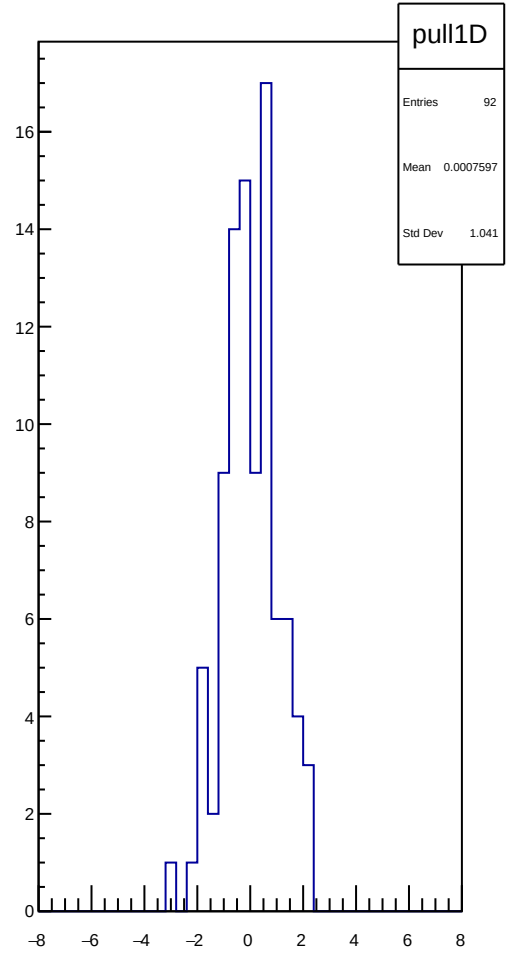

pull1D
Entries 92
Mean 0.0007598
Std Dev 1.041
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

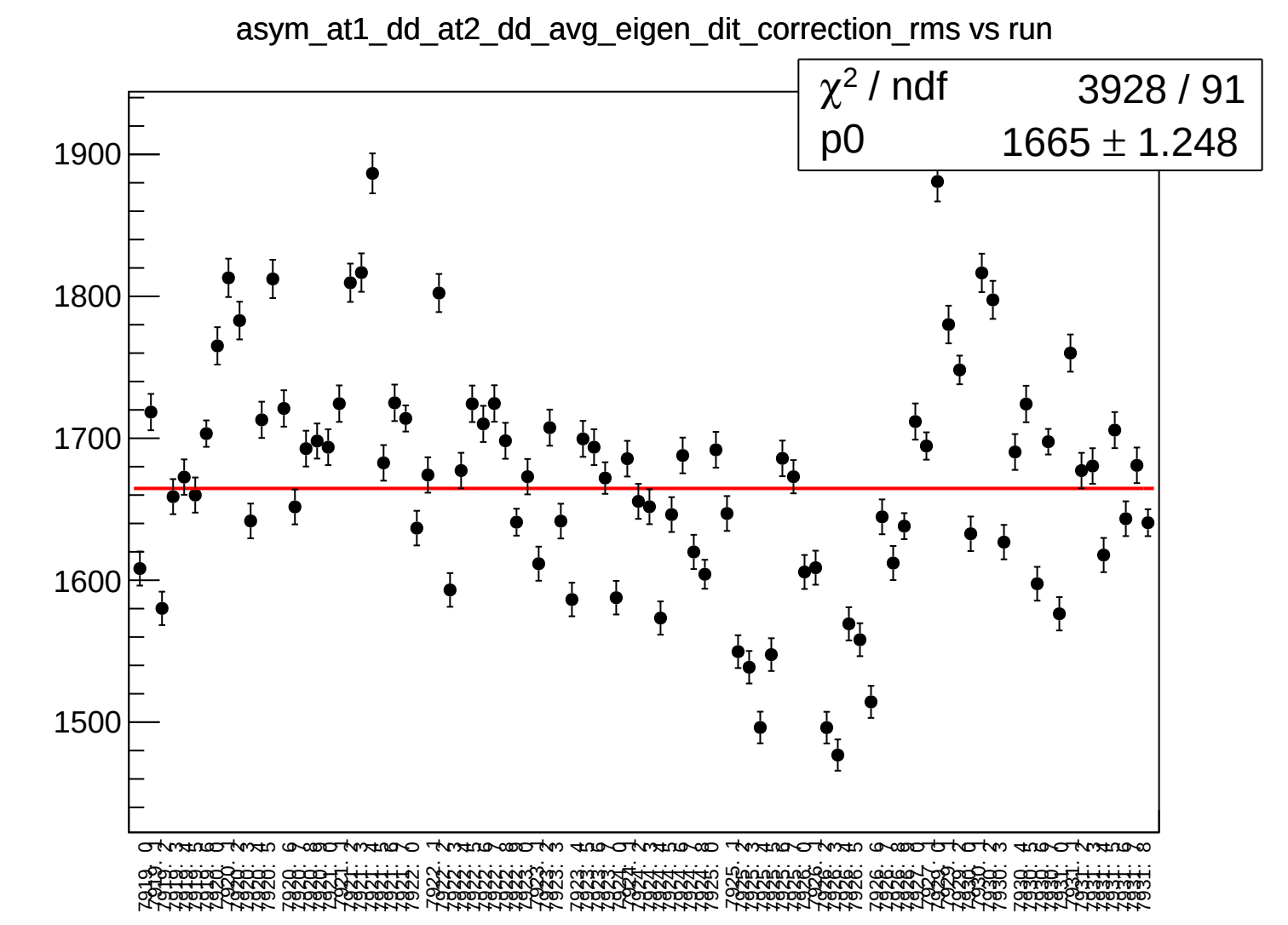

asym_at1_dd_at2_dd_avg_dit_correction_rms vs run
χ² / ndf 3928 / 91
p0 1665 ± 1.248
1900
1800
1700
1600
1500

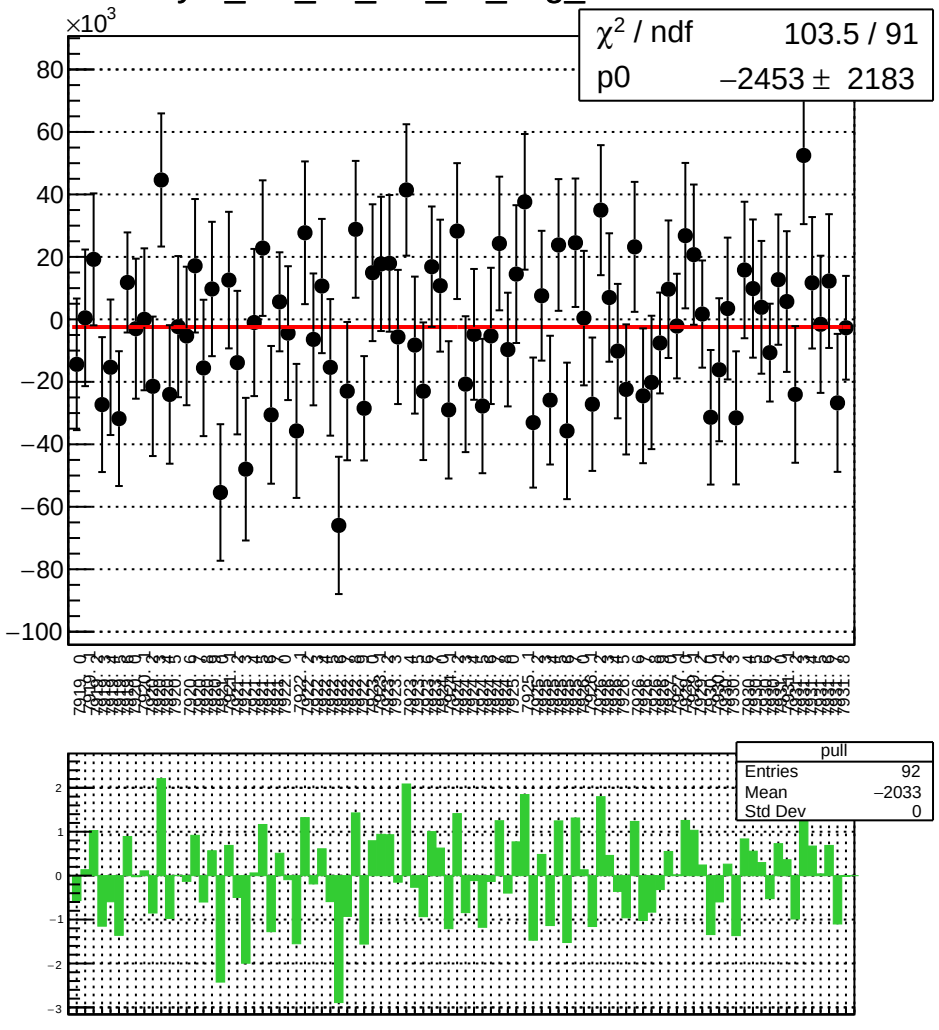

eigen_dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 82.45 / 91
p0 521.8 ± 1330
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 425.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.001708
Std Dev 0.9467
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

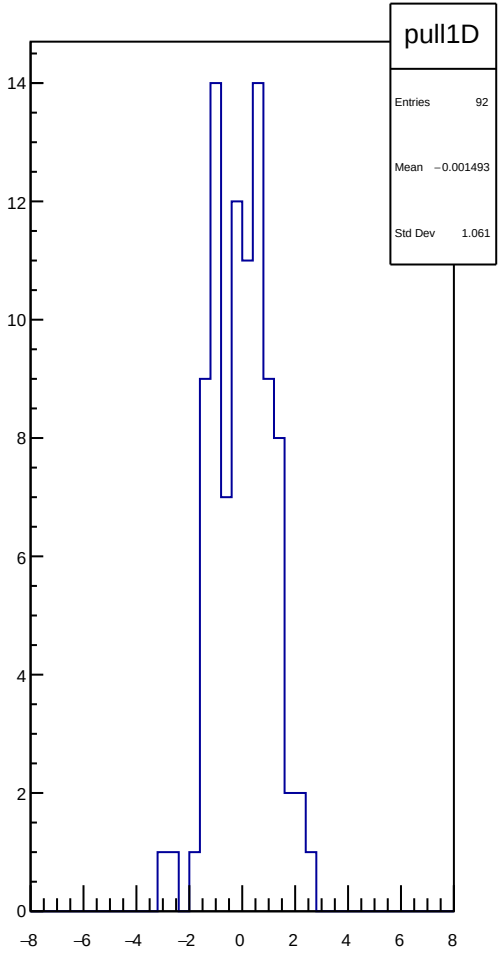

eigen_dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 102.3 / 91
p0 1256 ± 0.9407
1290
1280
1270
1260
1250
1240
1230
1220

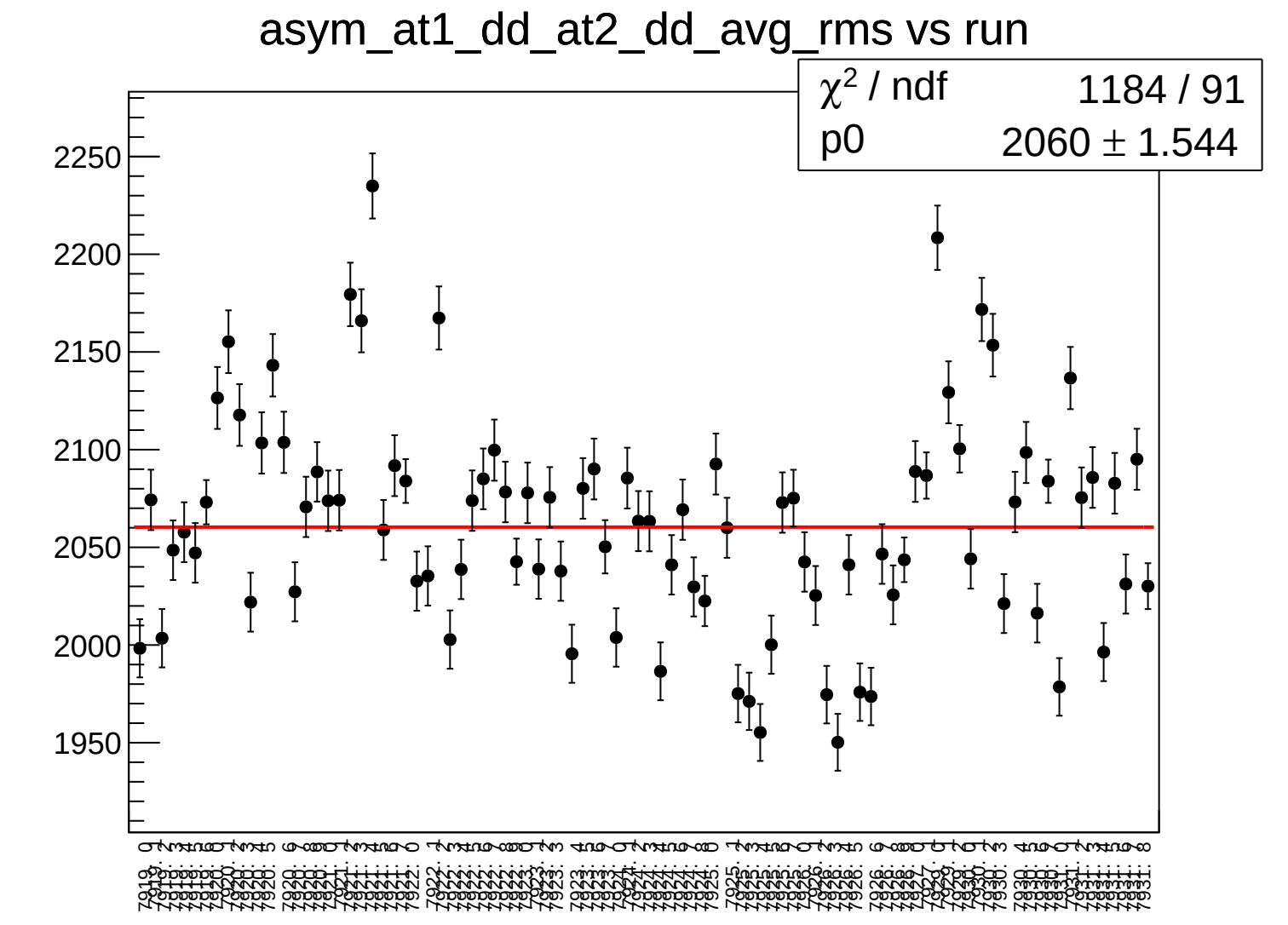

asym_at1_dd_at2_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 99.61 / 91
p0 3060 ± 1765
pull
Entries 92
Mean −4324
Std Dev 0

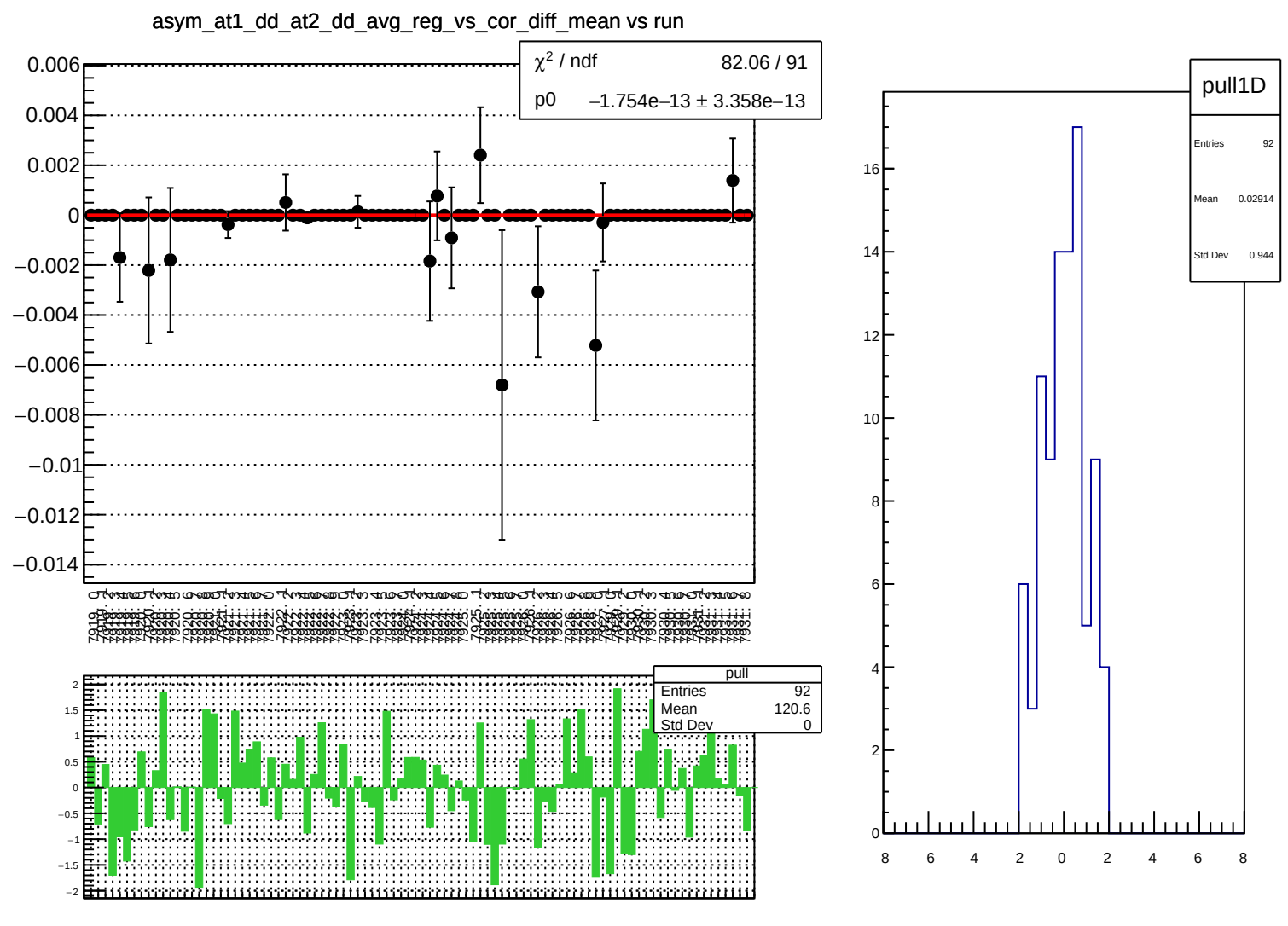

pull1D
Entries 92
Mean 0.0007597
Std Dev 1.041

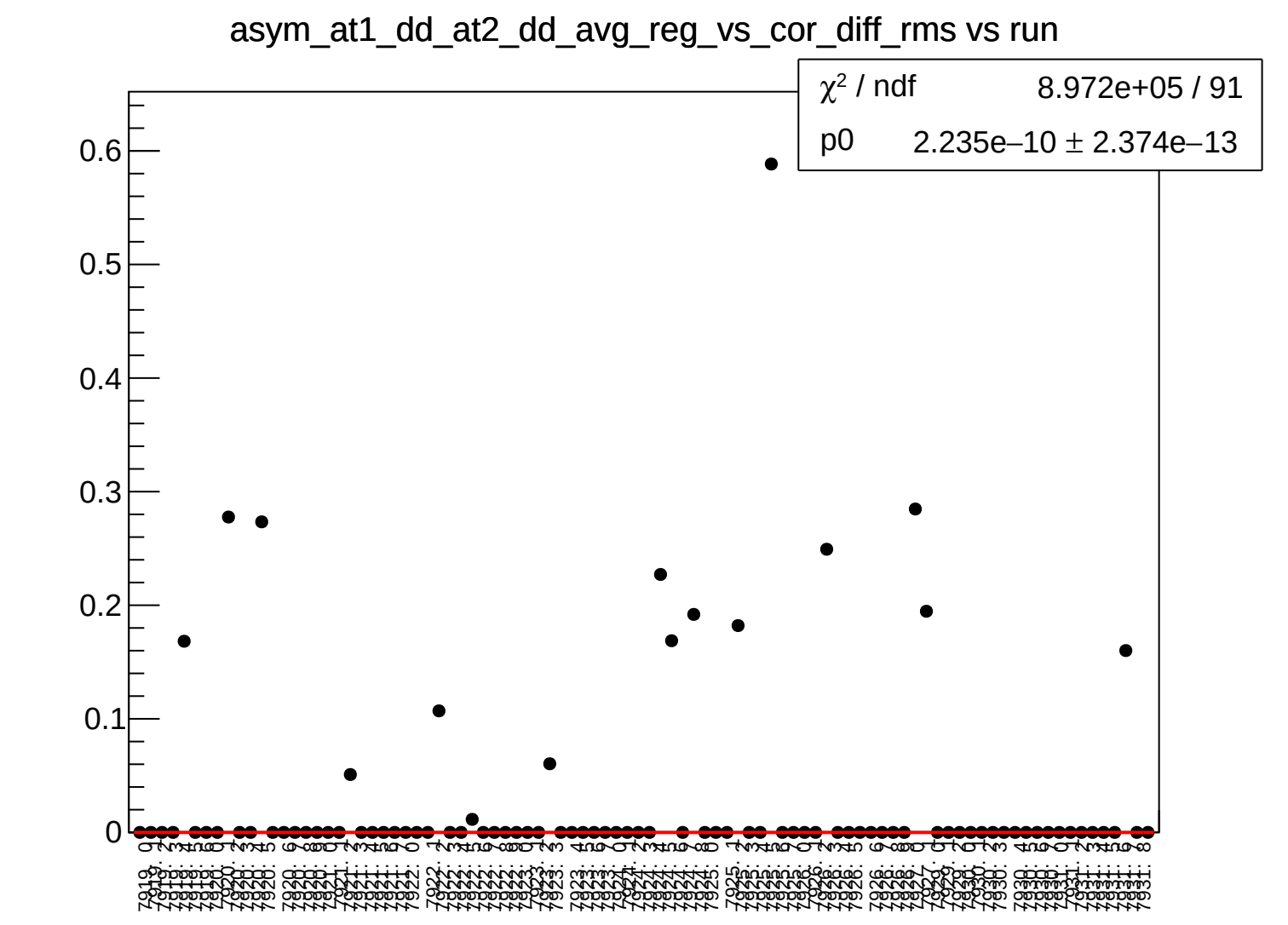

asym_at1_dd_at2_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 3928 / 91
p0 1665 ± 1.248
1900
1800
1700
1600
1500

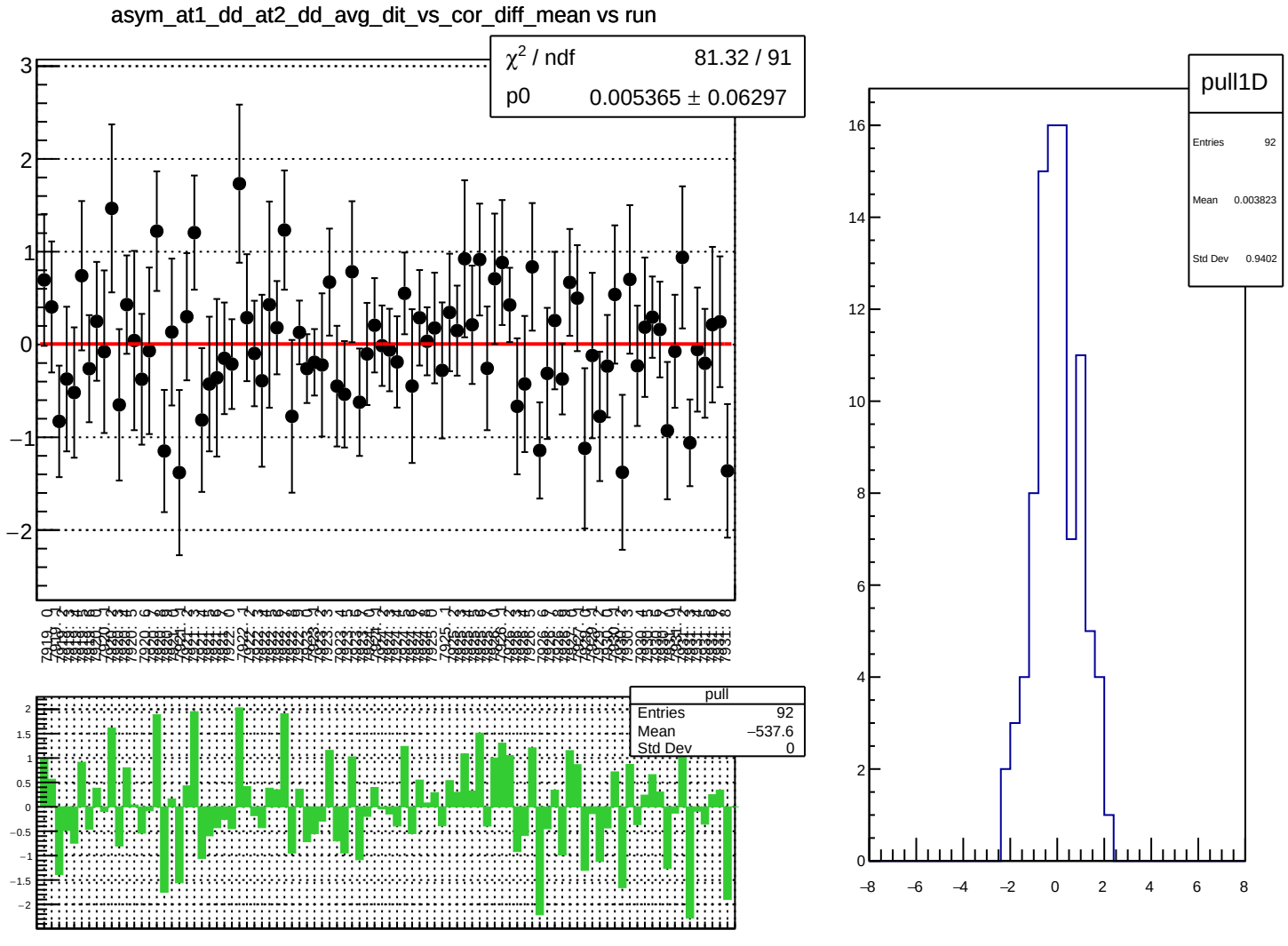

asym_at1_dd_at2_dd_avg_mean vs run
×10^3
χ² / ndf 103.5 / 91
p0 −2453 ± 2183
pull
Entries 92
Mean −2033
Std Dev 0

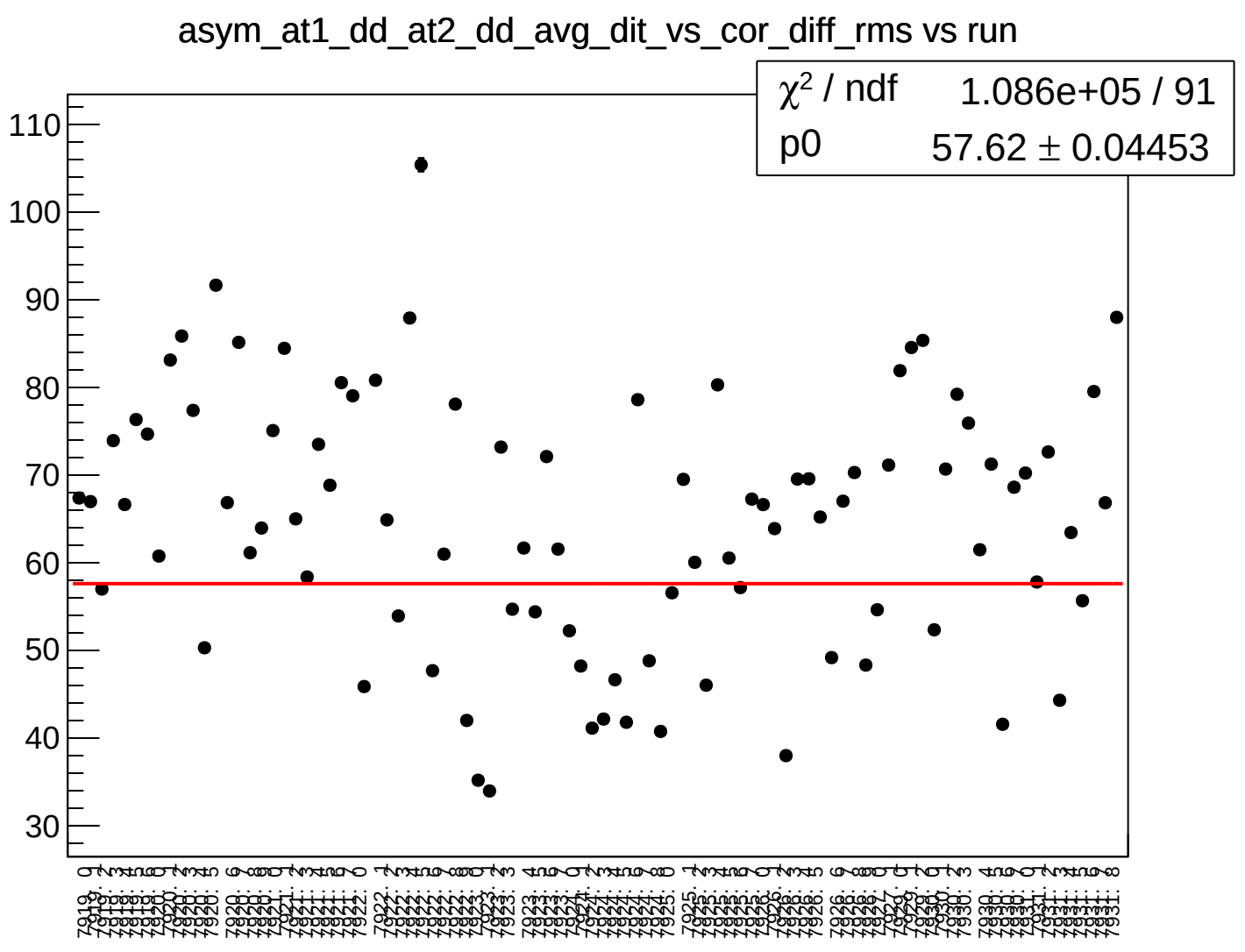

pull1D
Entries 92
Mean −0.001493
Std Dev 1.061

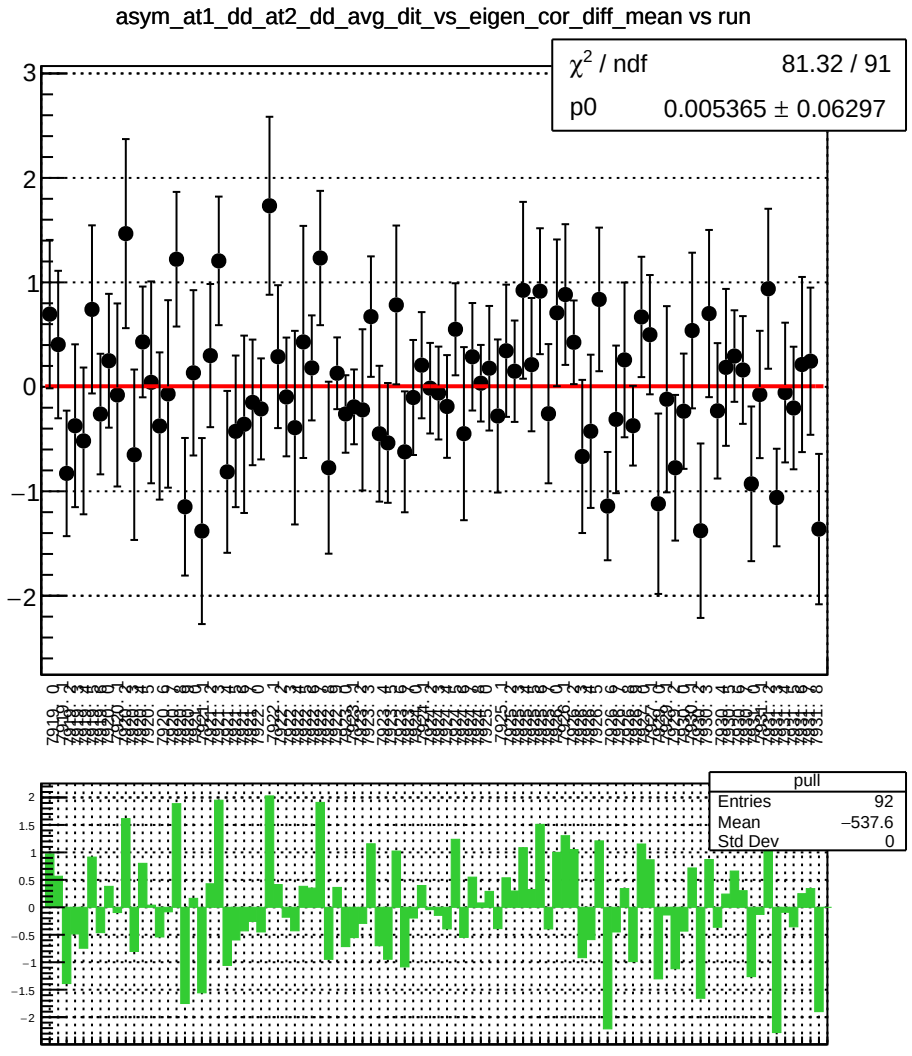

asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 1184 / 91
p0 2060 ± 1.544
2250
2200
2150
2100
2050
2000
1950

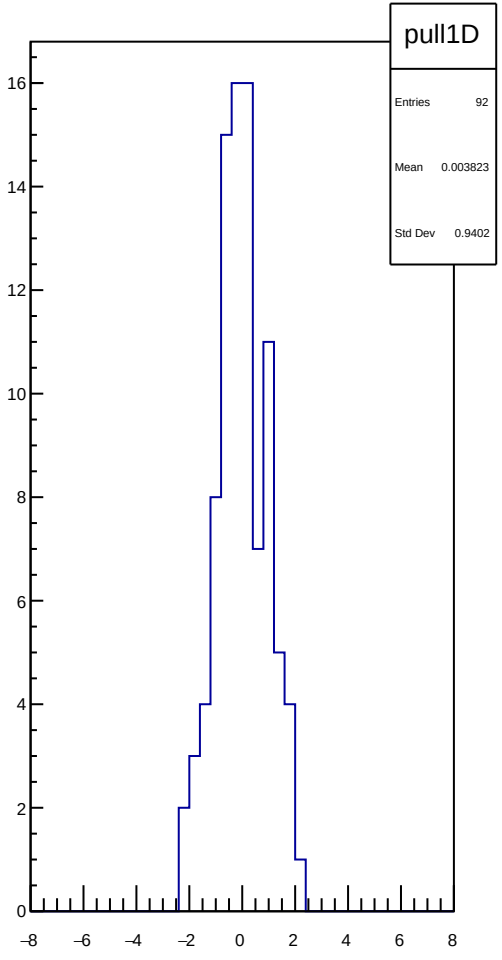

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 82.06 / 91
p0 −1.754e−13 ± 3.358e−13
pull
Entries 92
Mean 120.6
Std Dev 0
pull1D
Entries 92
Mean 0.02914
Std Dev 0.944

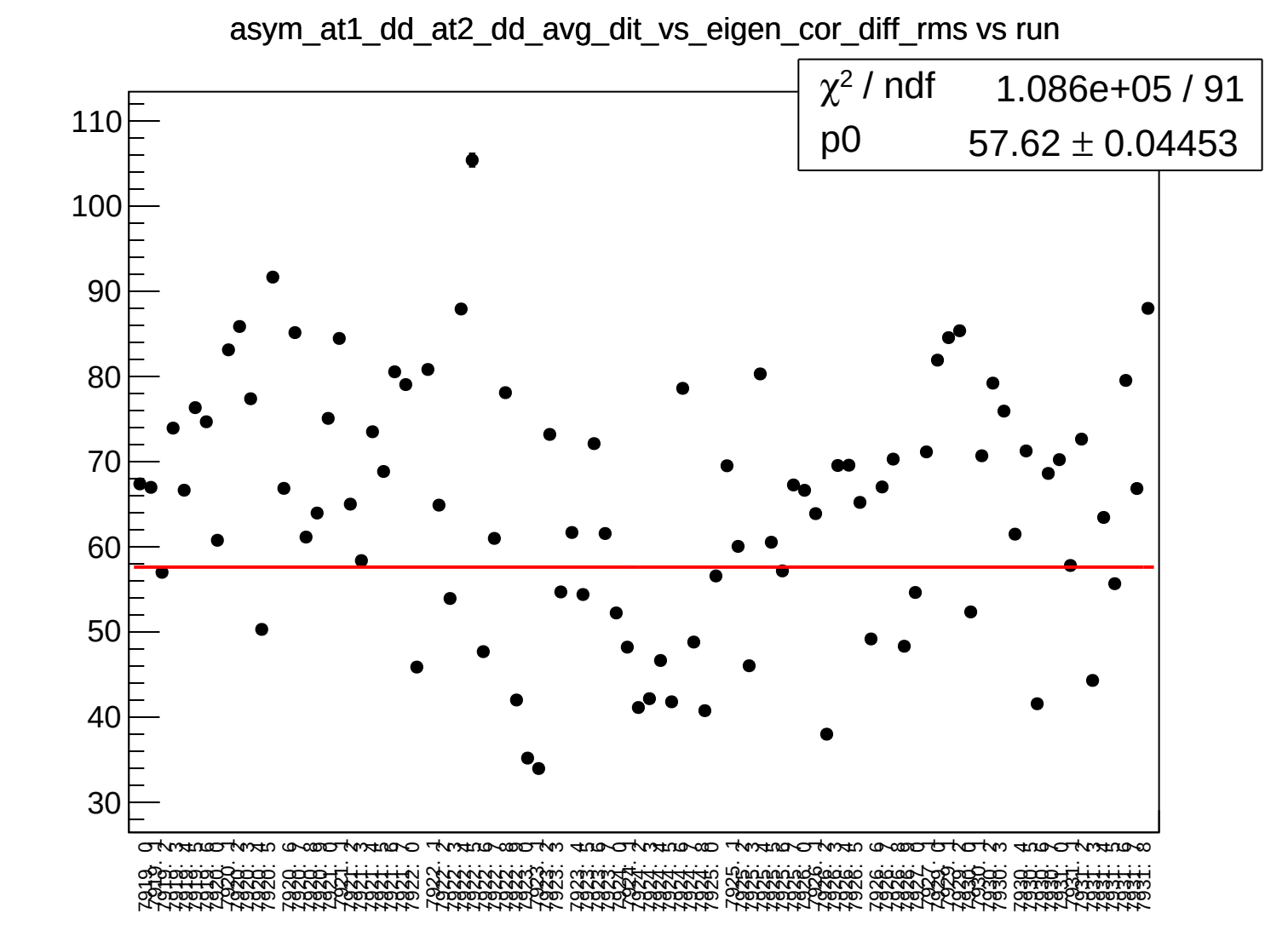

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.972e+05 / 91
p0 2.235e−10 ± 2.374e−13
0.6
0.5
0.4
0.3
0.2
0.1
0

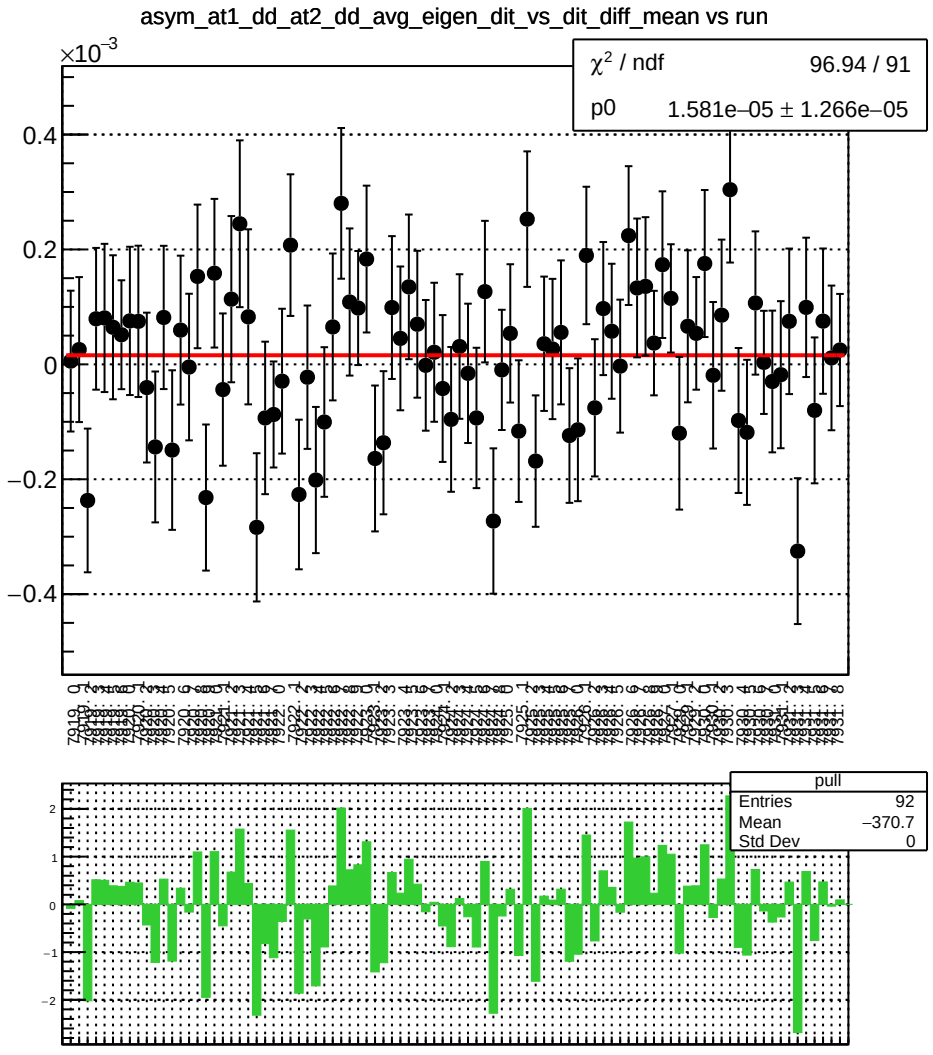

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 81.32 / 91
p0 0.005365 ± 0.06297
pull
Entries 92
Mean −537.6
Std Dev 0
pull1D
Entries 92
Mean 0.003823
Std Dev 0.9402

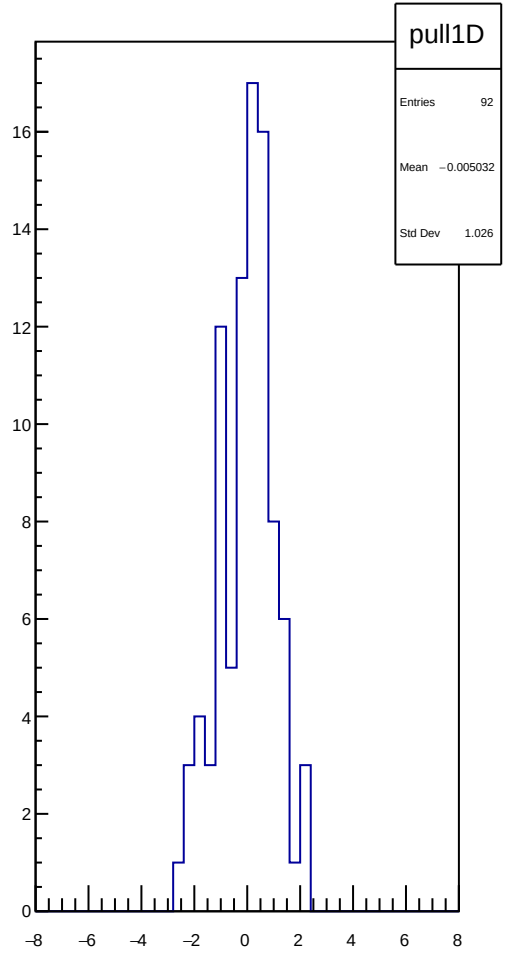

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.086e+05 / 91
p0 57.62 ± 0.04453
110
100
90
80
70
60
50
40
30

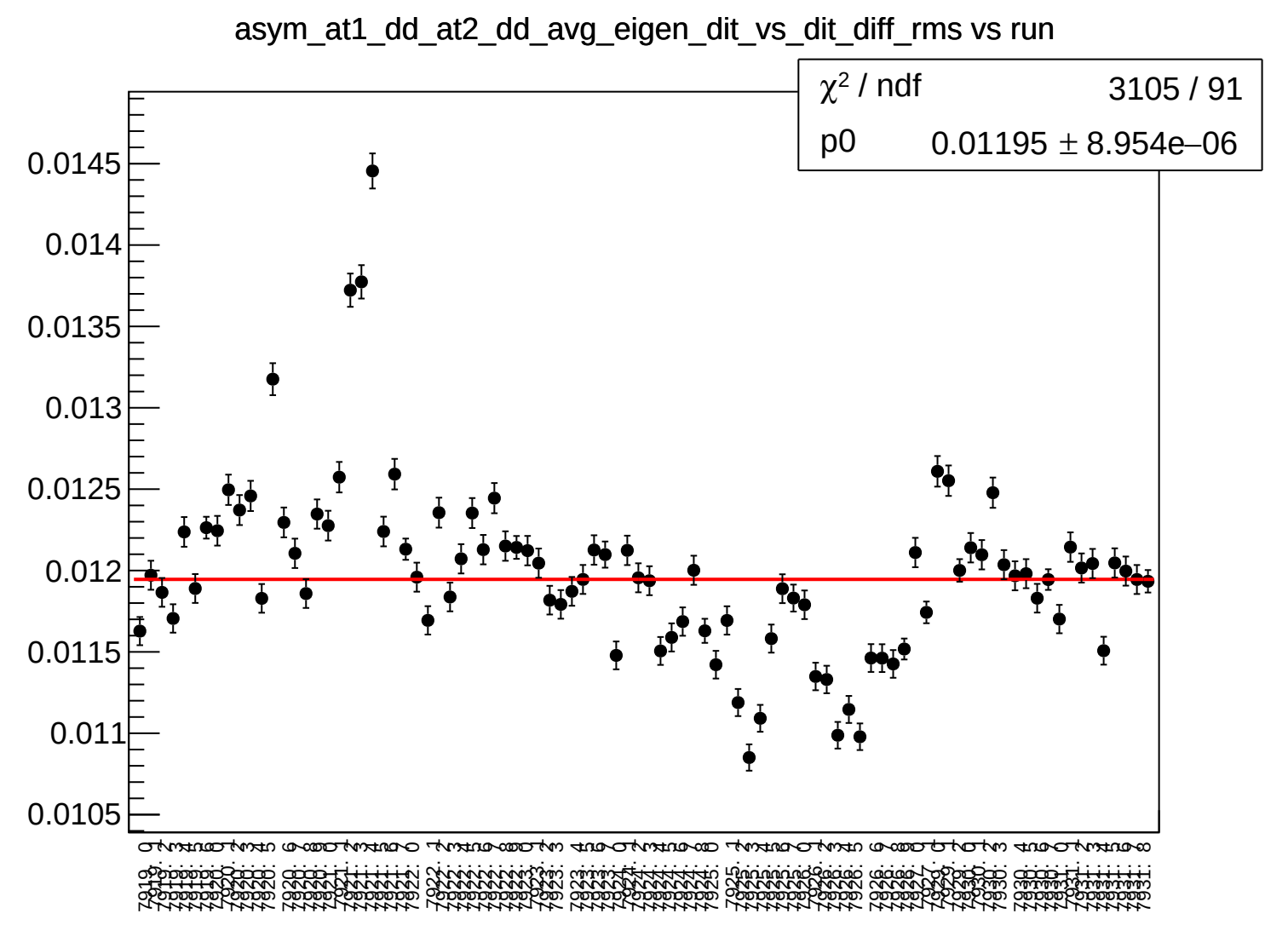

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.32 / 91
p0 0.005365 ± 0.06297
pull
Entries 92
Mean −537.6
Std Dev 0

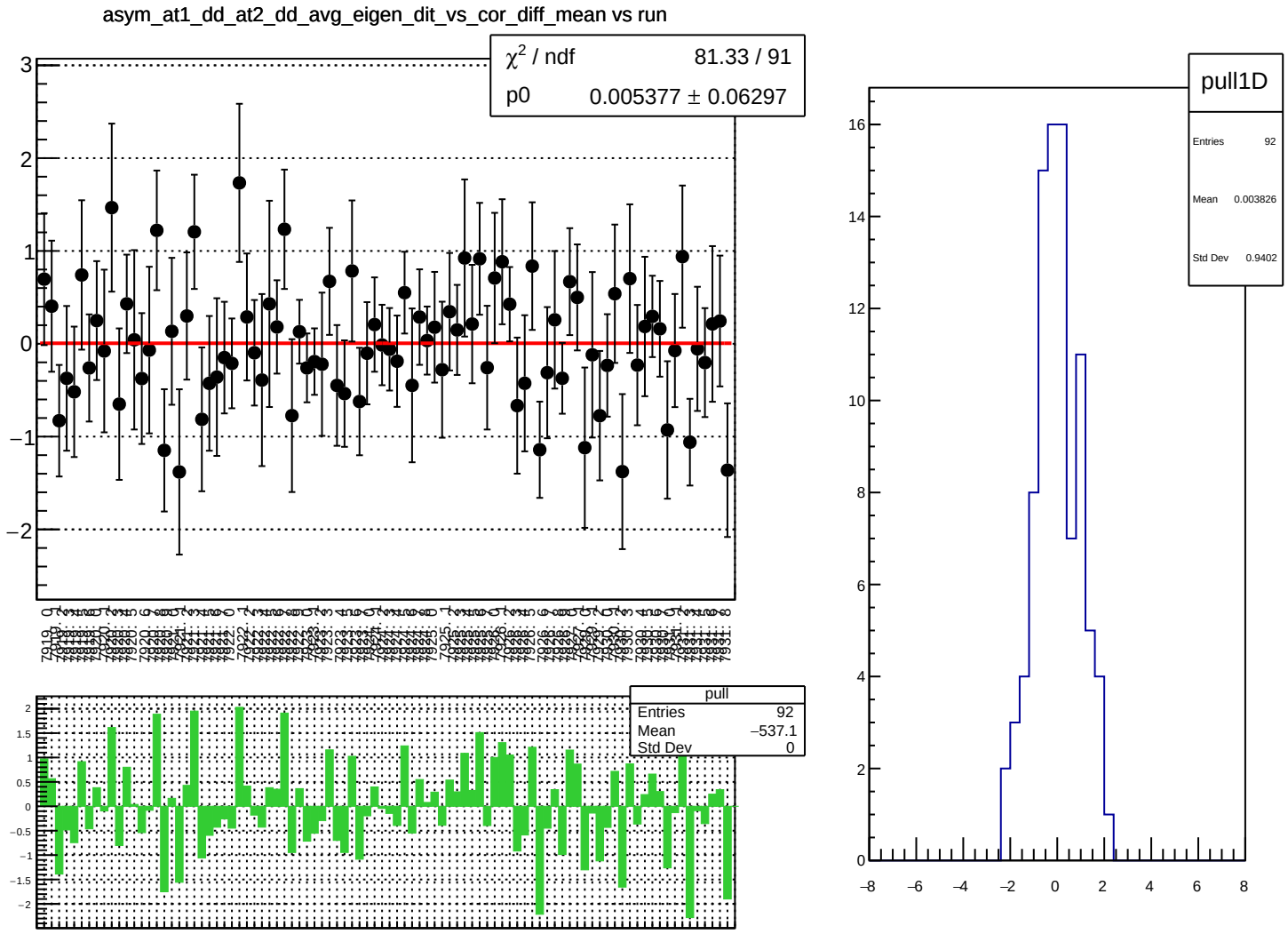

pull1D
Entries 92
Mean 0.003823
Std Dev 0.9402

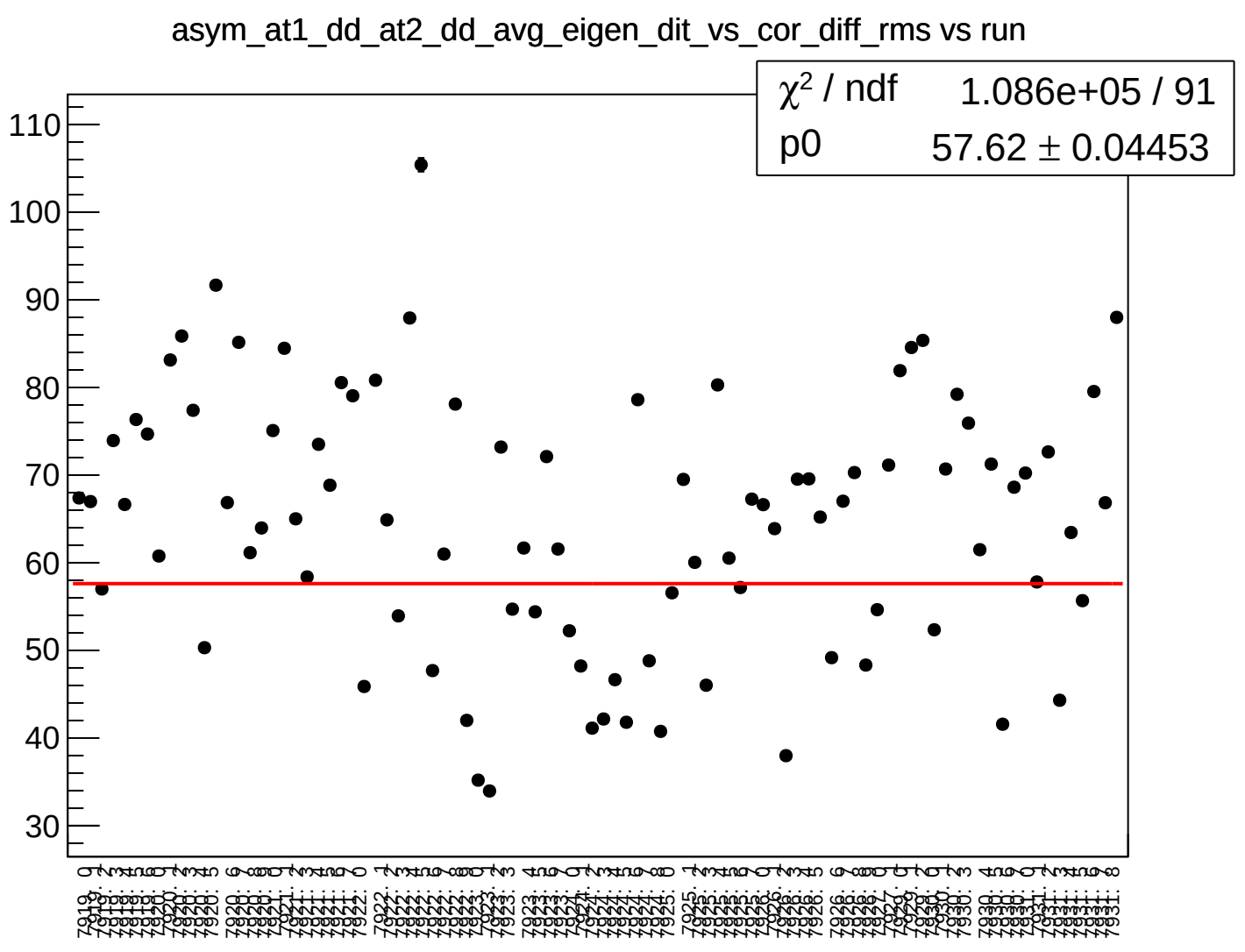

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.086e+05 / 91
p0 57.62 ± 0.04453
110
100
90
80
70
60
50
40
30

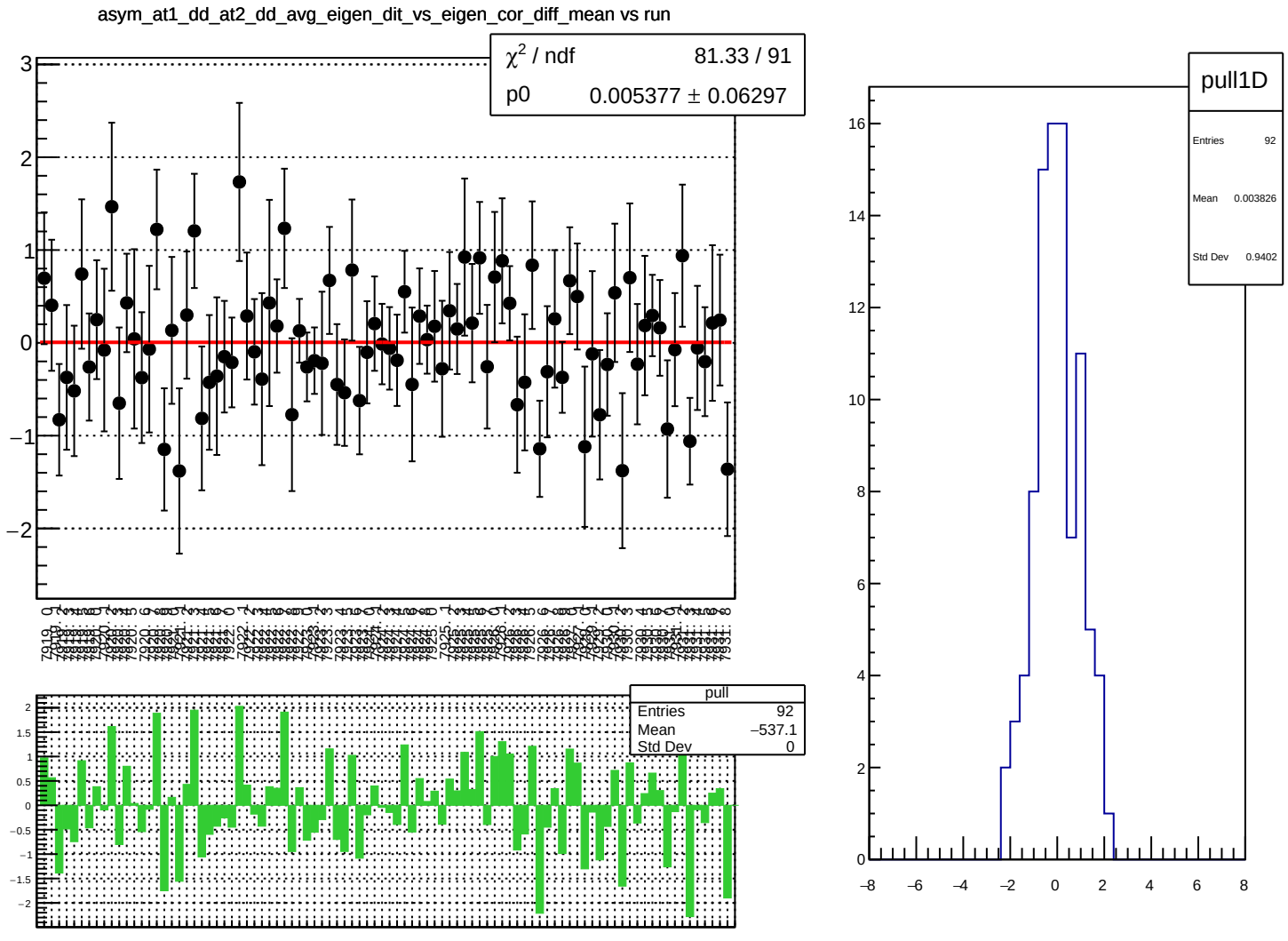

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.94 / 91
p0 1.581e−05 ± 1.266e−05
0.4
0.2
0
−0.2
−0.4
pull
Entries 92
Mean −370.7
Std Dev 0
2
1
0
−1
−2

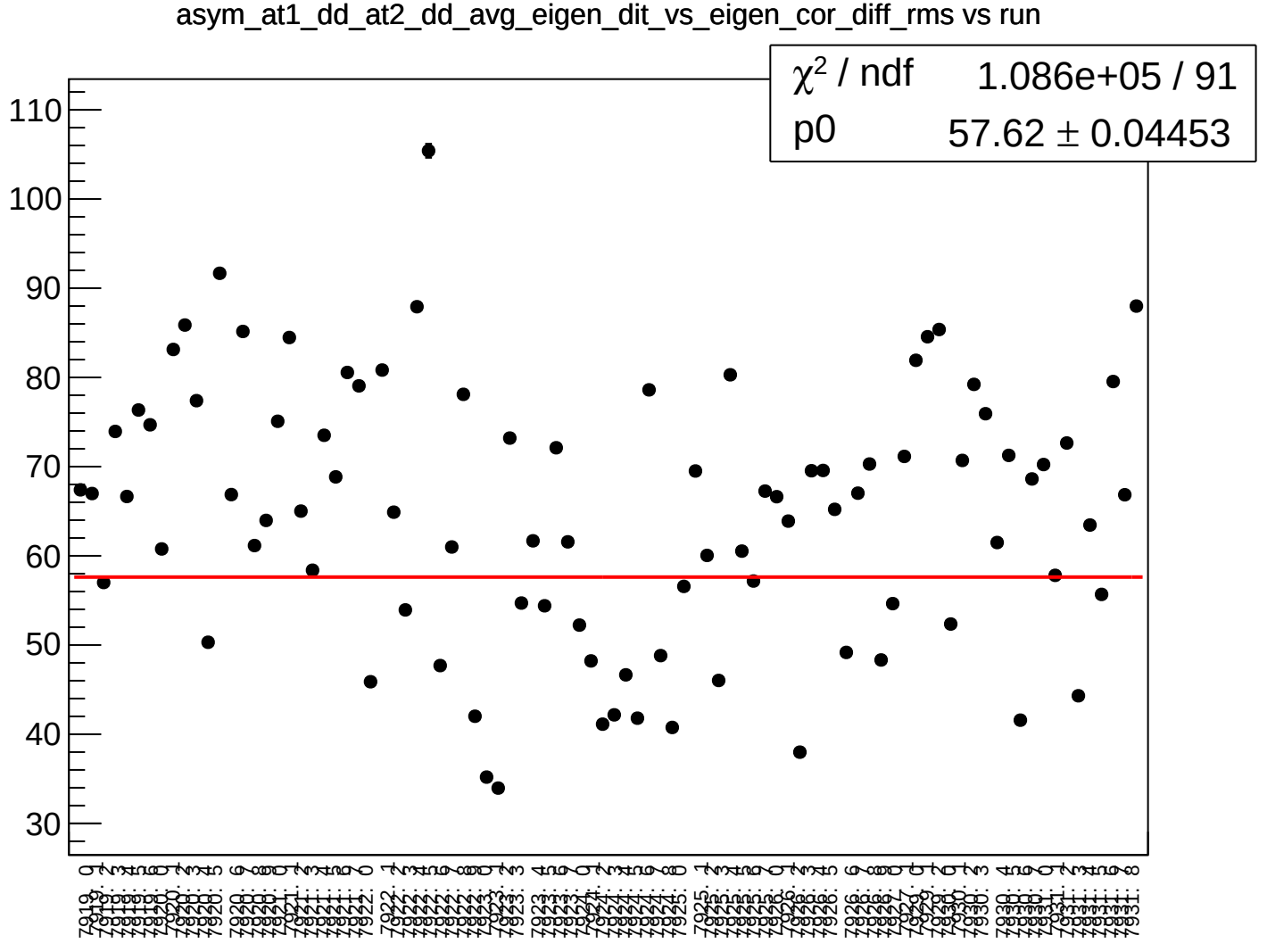

pull1D
Entries 92
Mean −0.005032
Std Dev 1.026
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

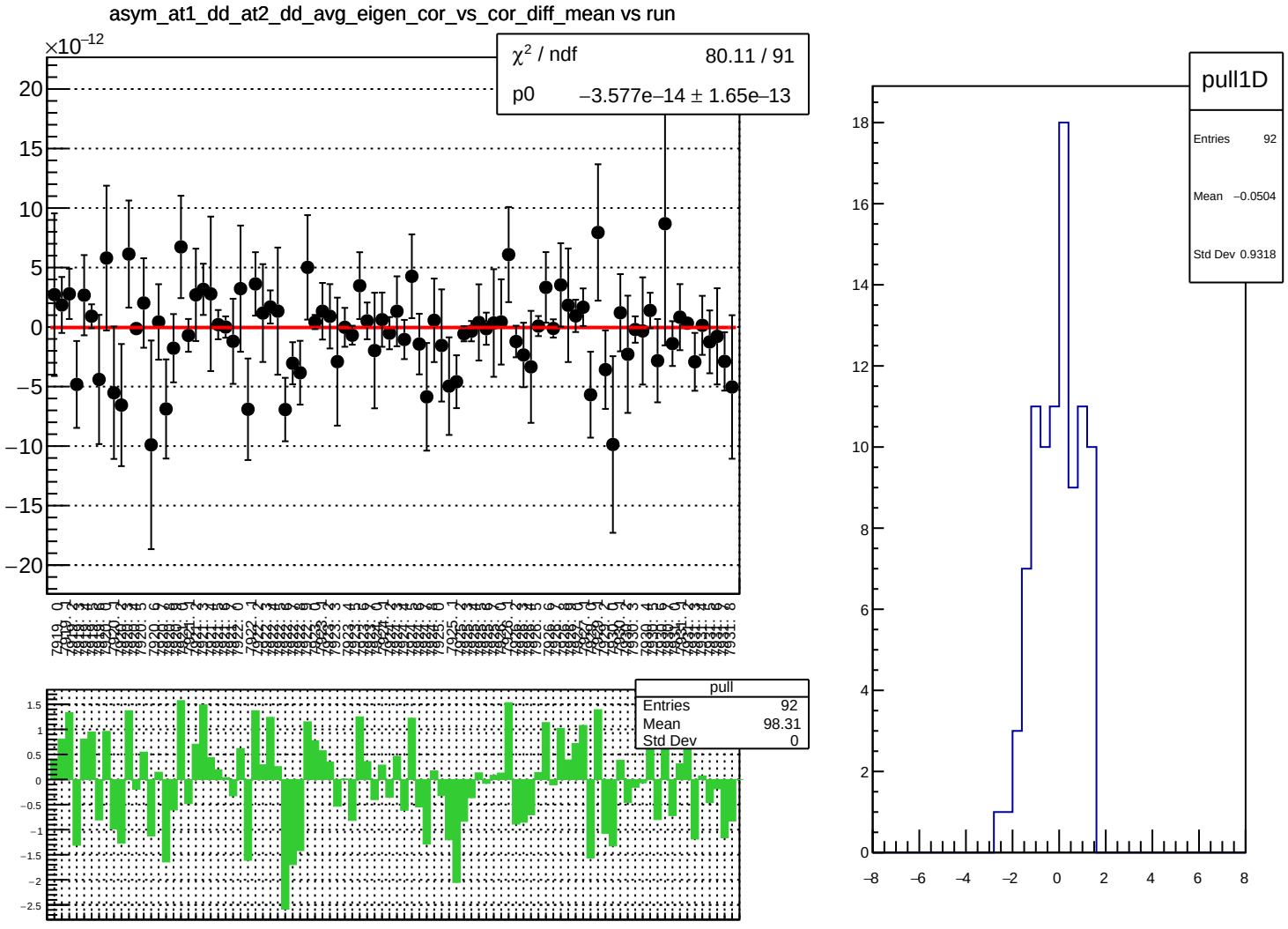

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3105 / 91
p0 0.01195 ± 8.954e−06
0.0145
0.014
0.0135
0.013
0.0125
0.012
0.0115
0.011
0.0105

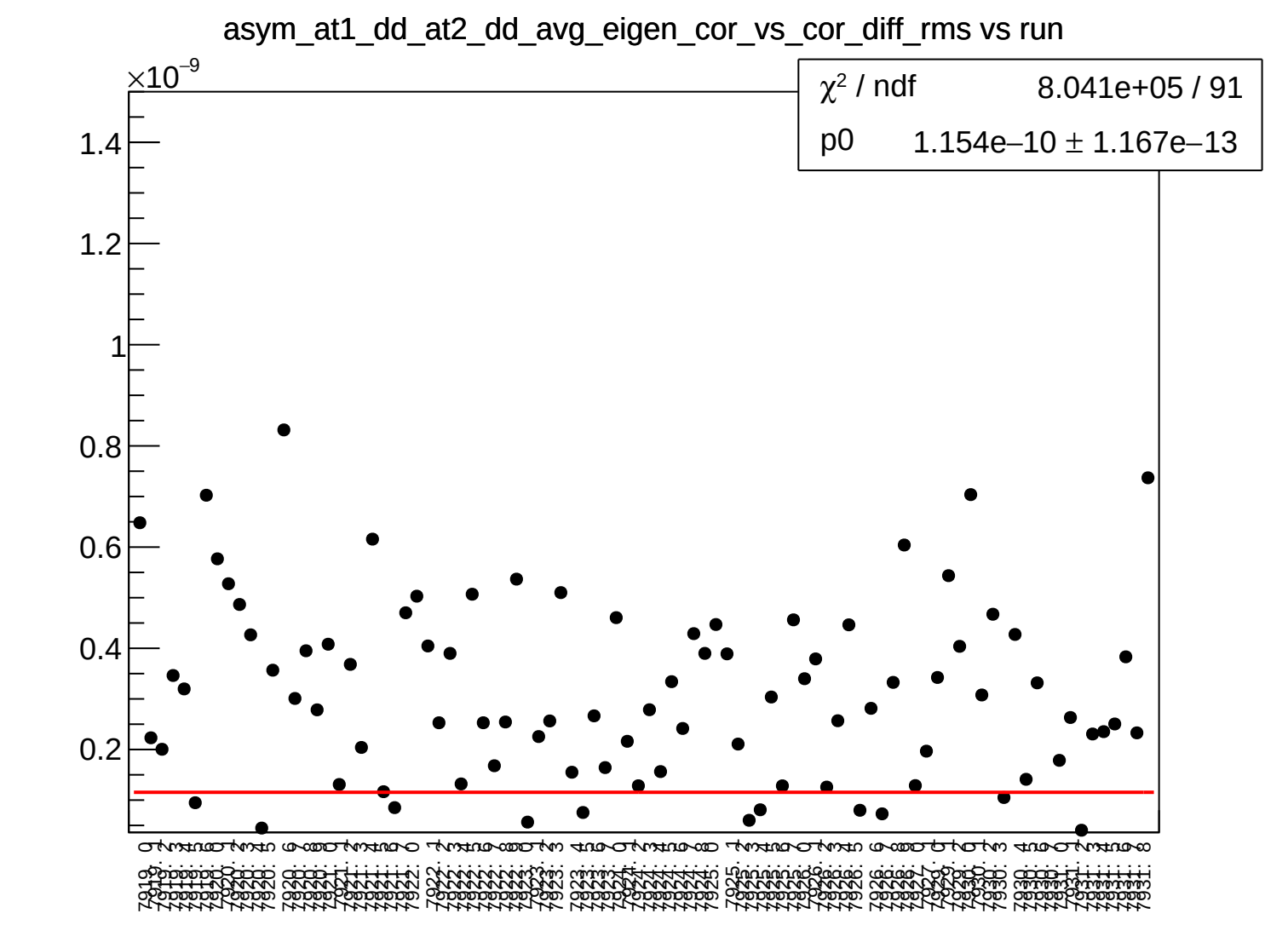

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.33 / 91
p0 0.005377 ± 0.06297
pull
Entries 92
Mean −537.1
Std Dev 0
pull1D
Entries 92
Mean 0.003826
Std Dev 0.9402

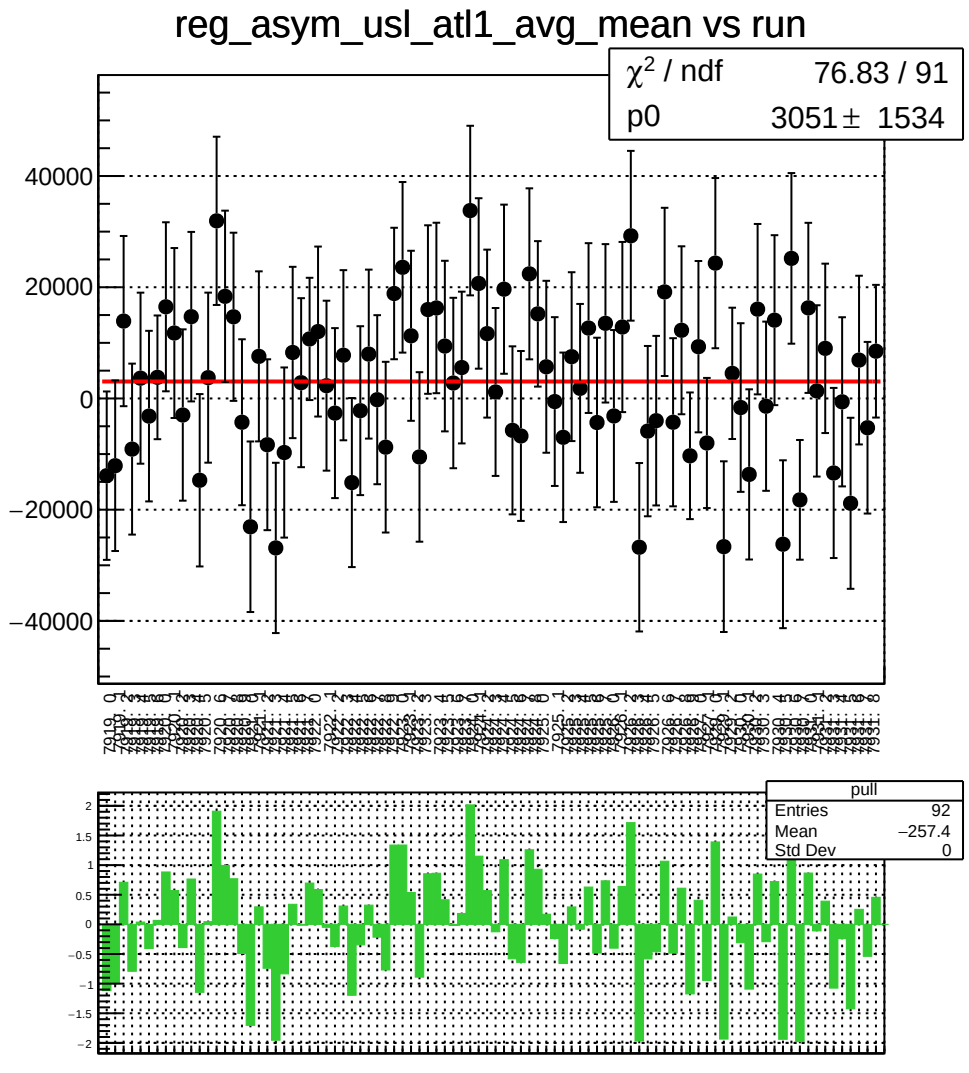

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.086e+05 / 91
p0 57.62 ± 0.04453
110
100
90
80
70
60
50
40
30

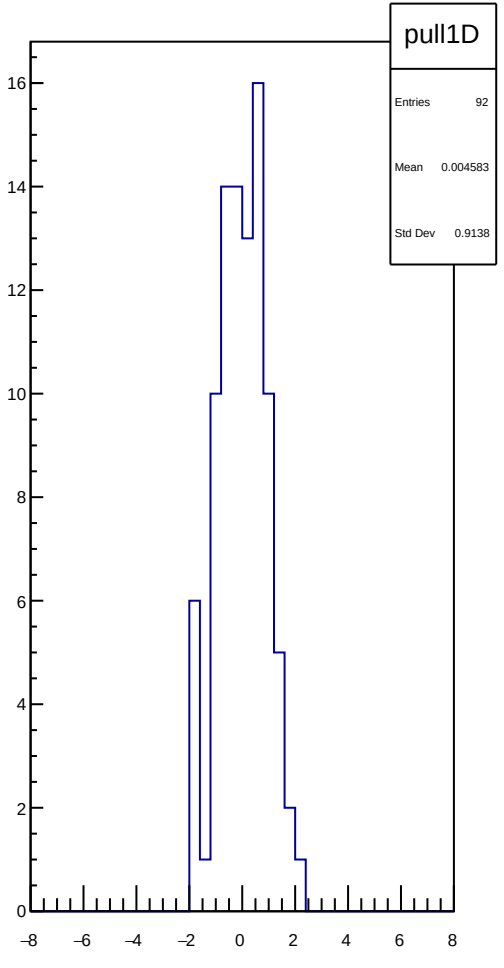

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.33 / 91
p0 0.005377 ± 0.06297
pull
Entries 92
Mean −537.1
Std Dev 0
pull1D
Entries 92
Mean 0.003826
Std Dev 0.9402

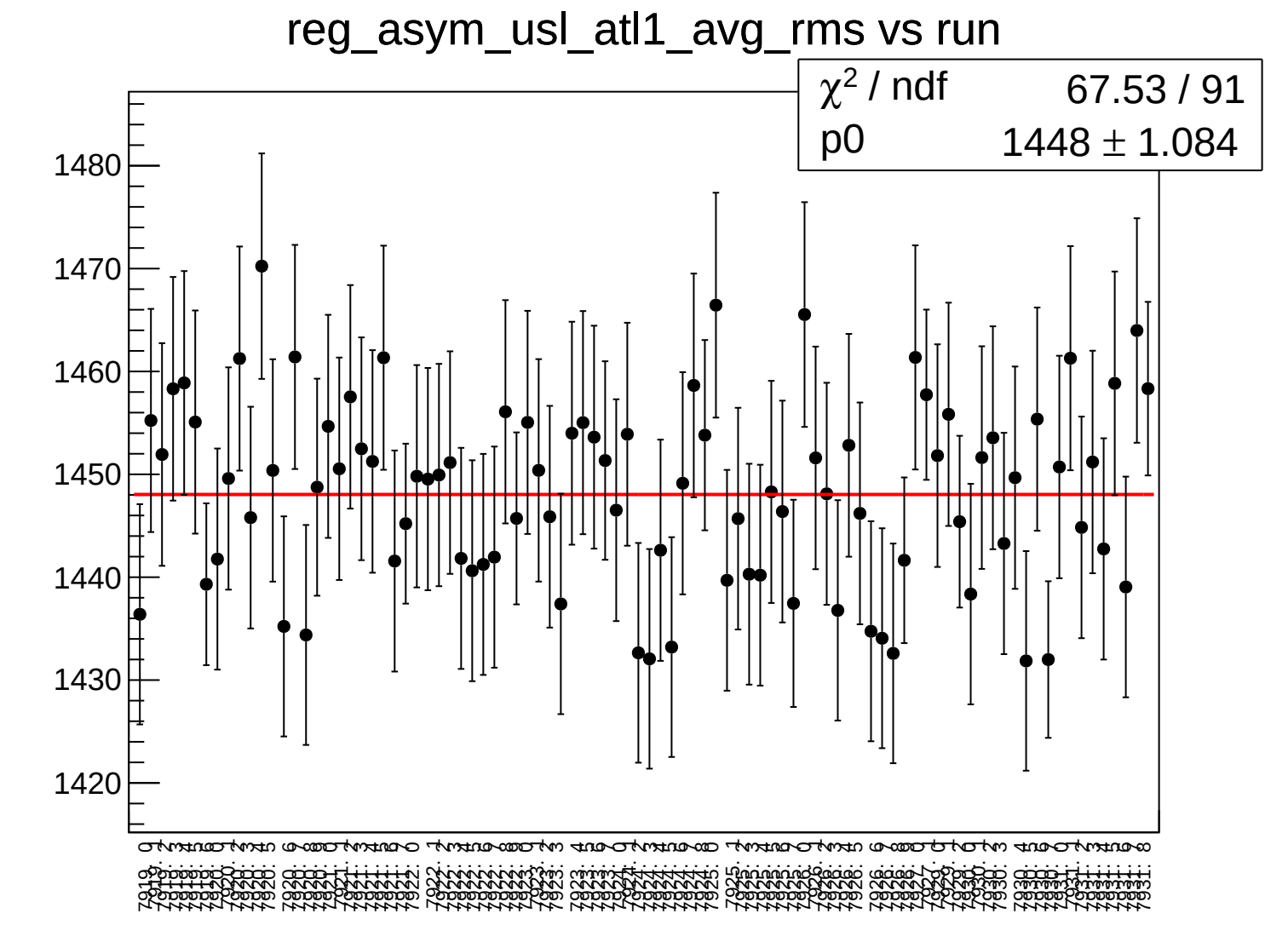

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.086e+05 / 91
p0 57.62 ± 0.04453
110
100
90
80
70
60
50
40
30

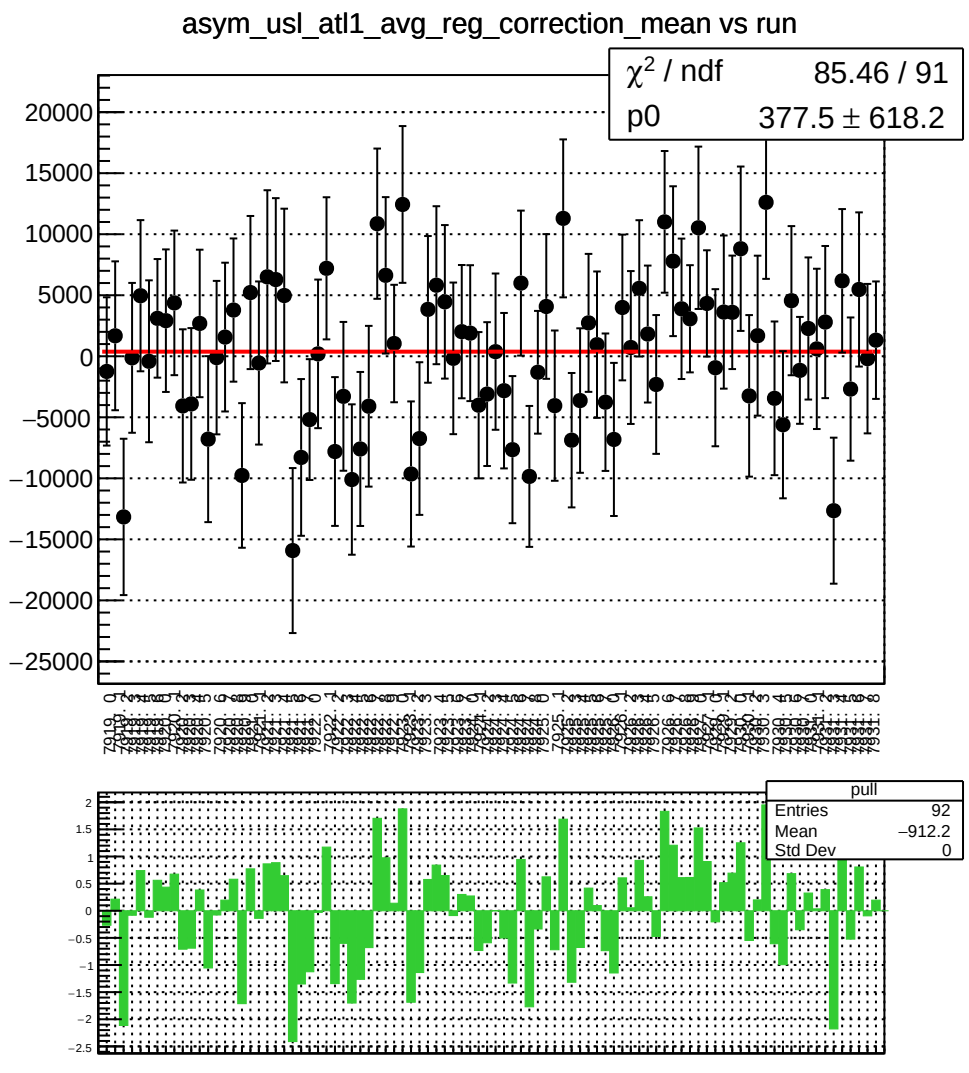

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.11 / 91
p0 −3.577e−14 ± 1.65e−13
pull
Entries 92
Mean 98.31
Std Dev 0
pull1D
Entries 92
Mean −0.0504
Std Dev 0.9318

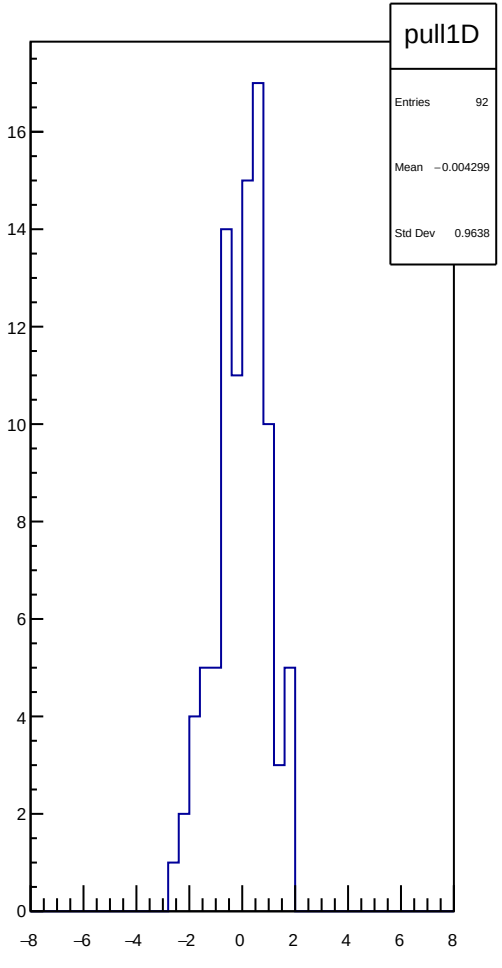

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.041e+05 / 91
p0 1.154e−10 ± 1.167e−13
1.4
1.2
1
0.8
0.6
0.4
0.2

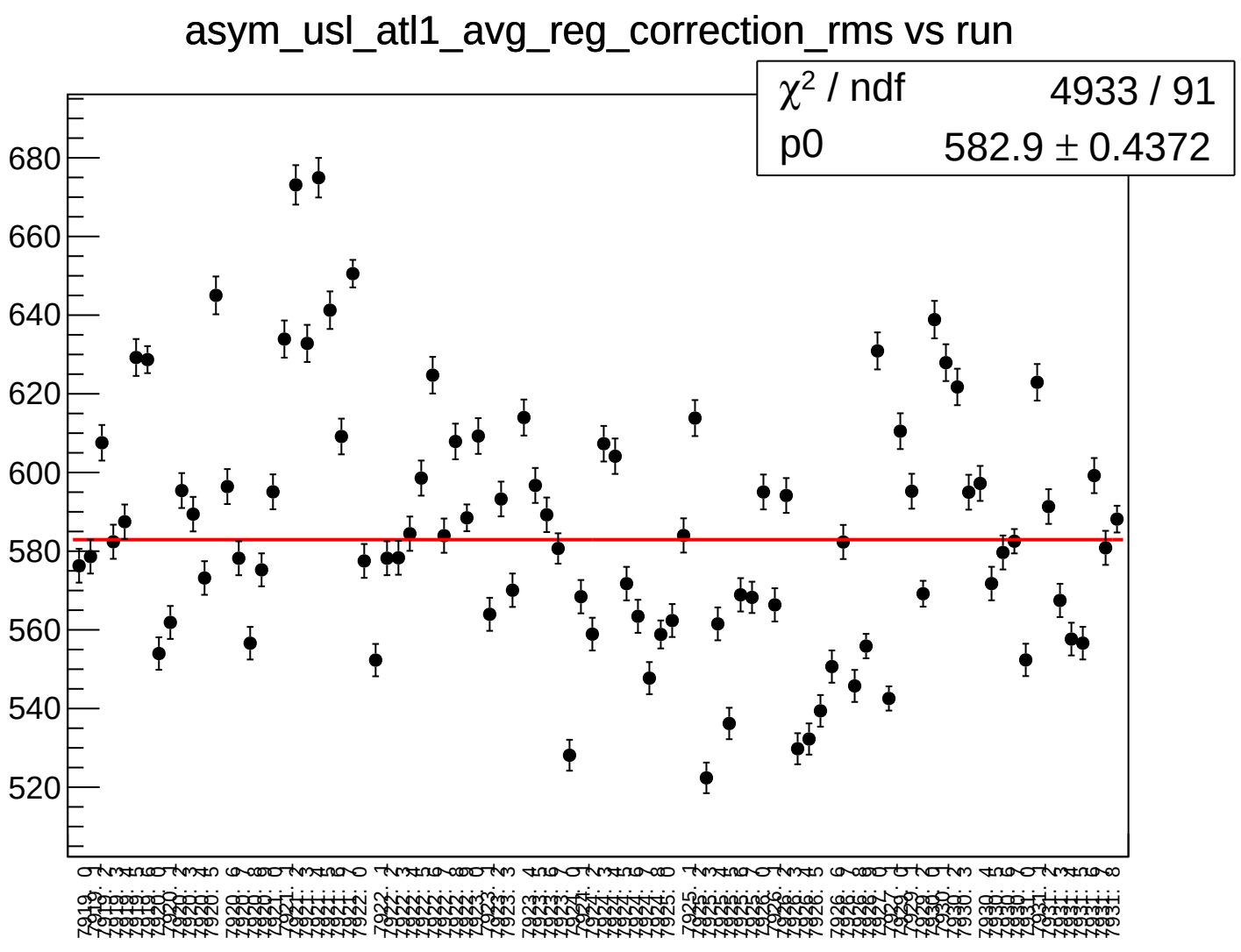

reg_asym_usl_atl1_avg_mean vs run
χ² / ndf 76.83 / 91
p0 3051 ± 1534
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −257.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

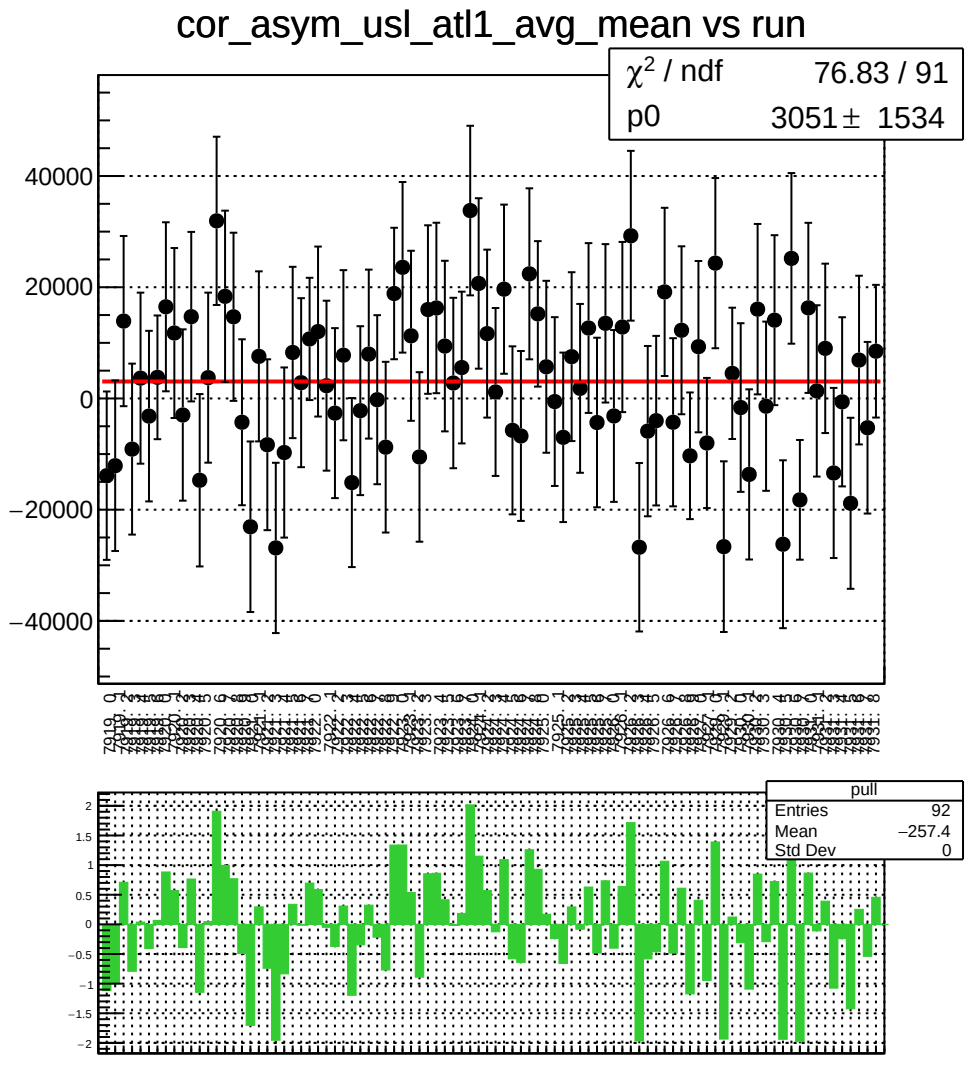

pull1D
Entries 92
Mean 0.004583
Std Dev 0.9138
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

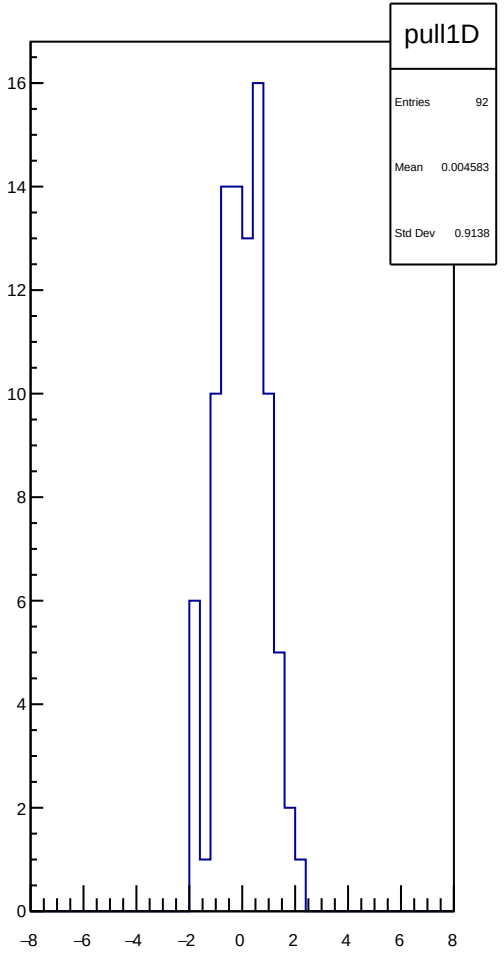

reg_asym_usl_atl1_avg_rms vs run
χ² / ndf 67.53 / 91
p0 1448 ± 1.084
1480
1470
1460
1450
1440
1430
1420

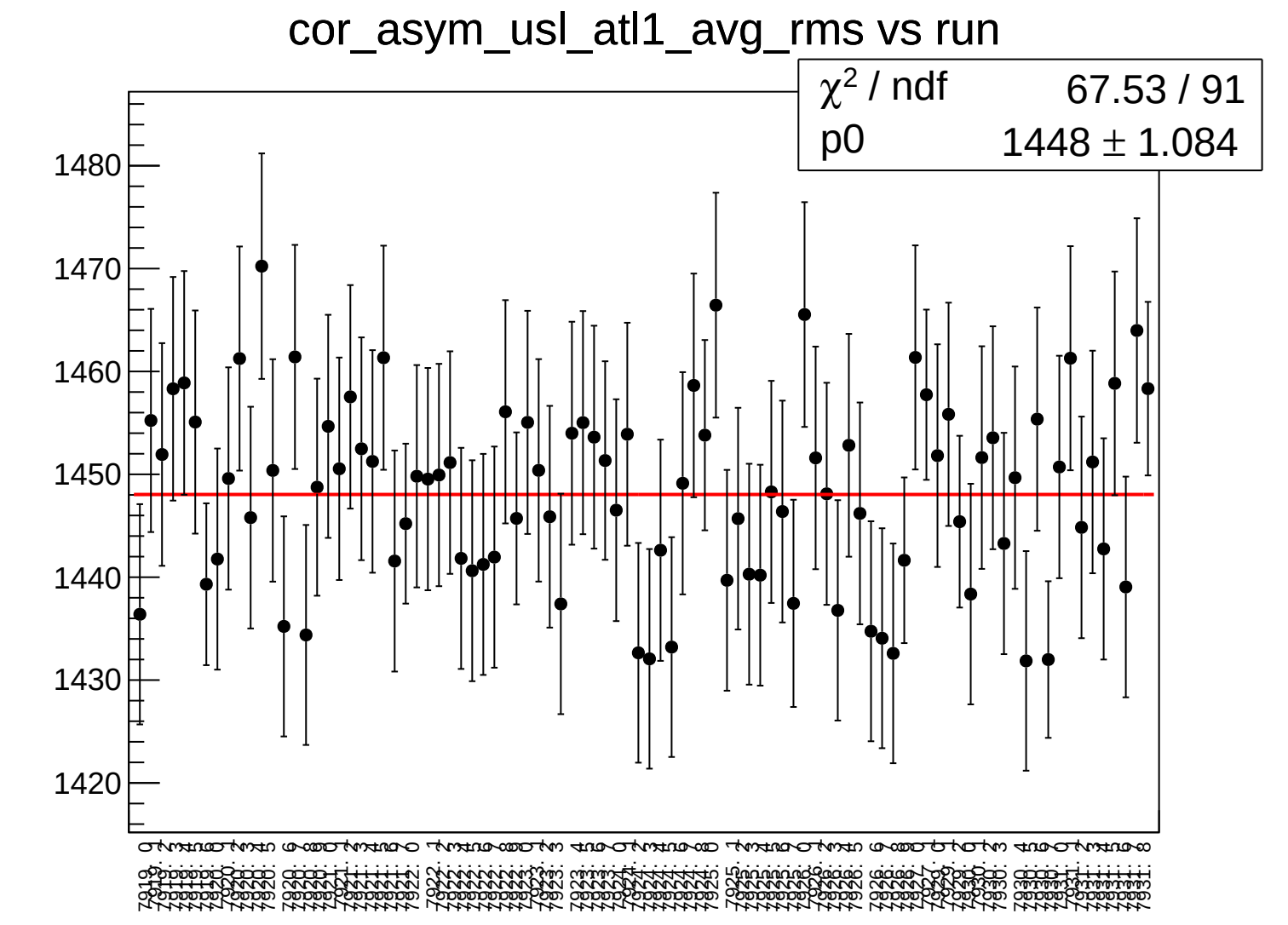

asym_usl_atl1_avg_reg_correction_mean vs run
χ² / ndf 85.46 / 91
p0 377.5 ± 618.2
pull
Entries 92
Mean −912.2
Std Dev 0

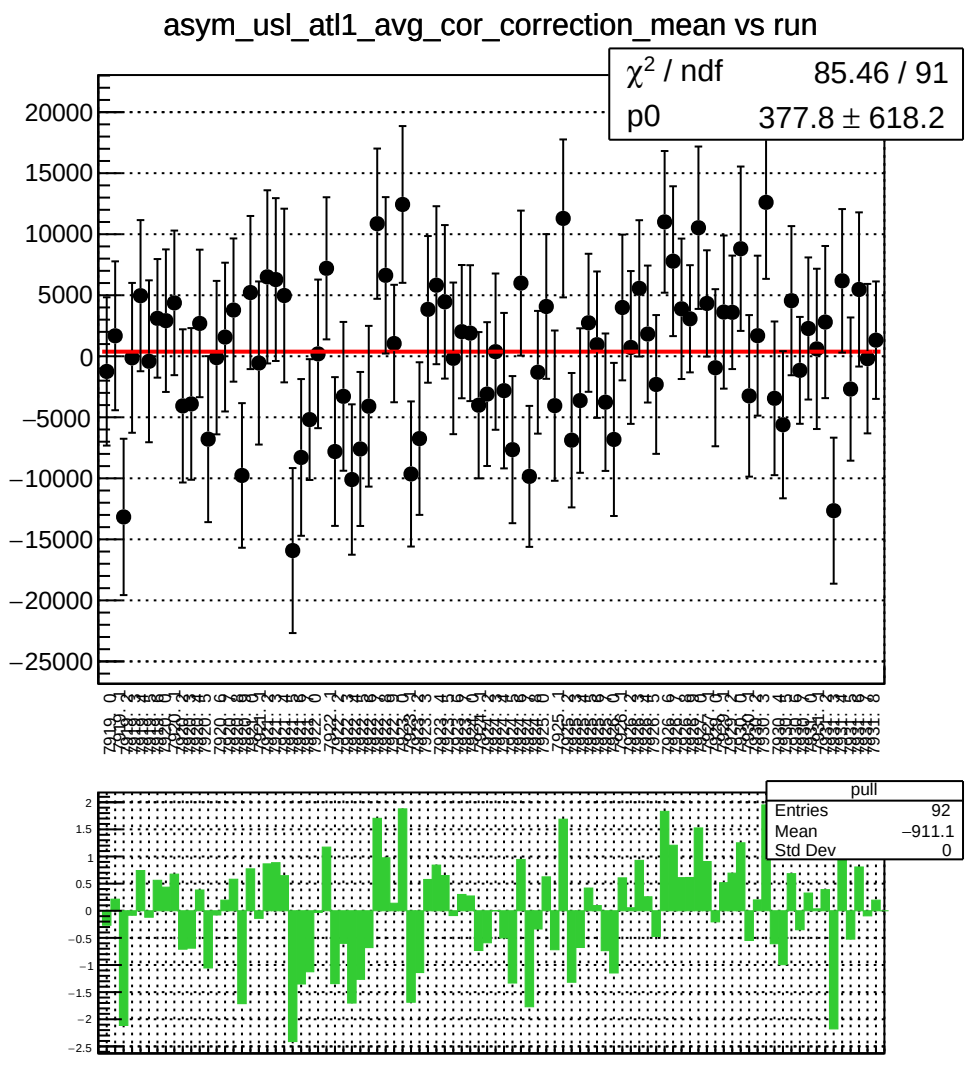

pull1D
Entries 92
Mean −0.004299
Std Dev 0.9638

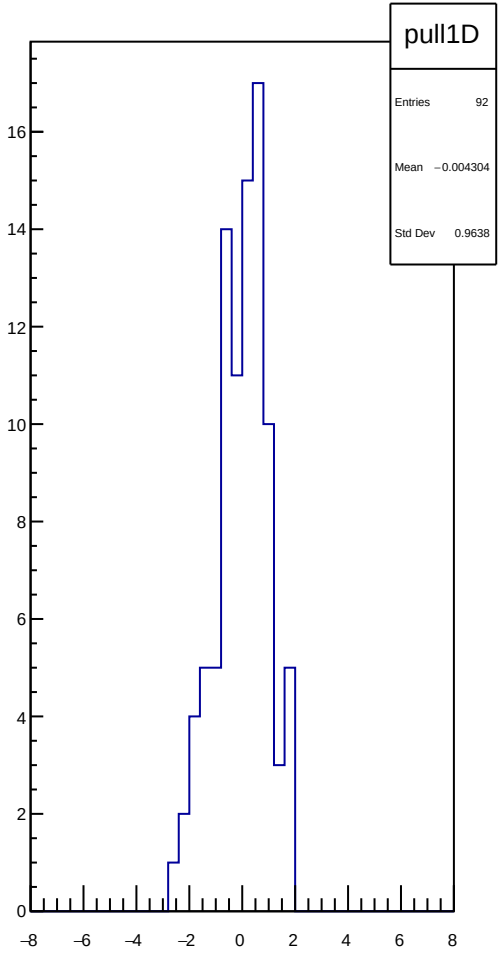

asym_usl_atl1_avg_reg_correction_rms vs run
χ² / ndf 4933 / 91
p0 582.9 ± 0.4372
680
660
640
620
600
580
560
540
520

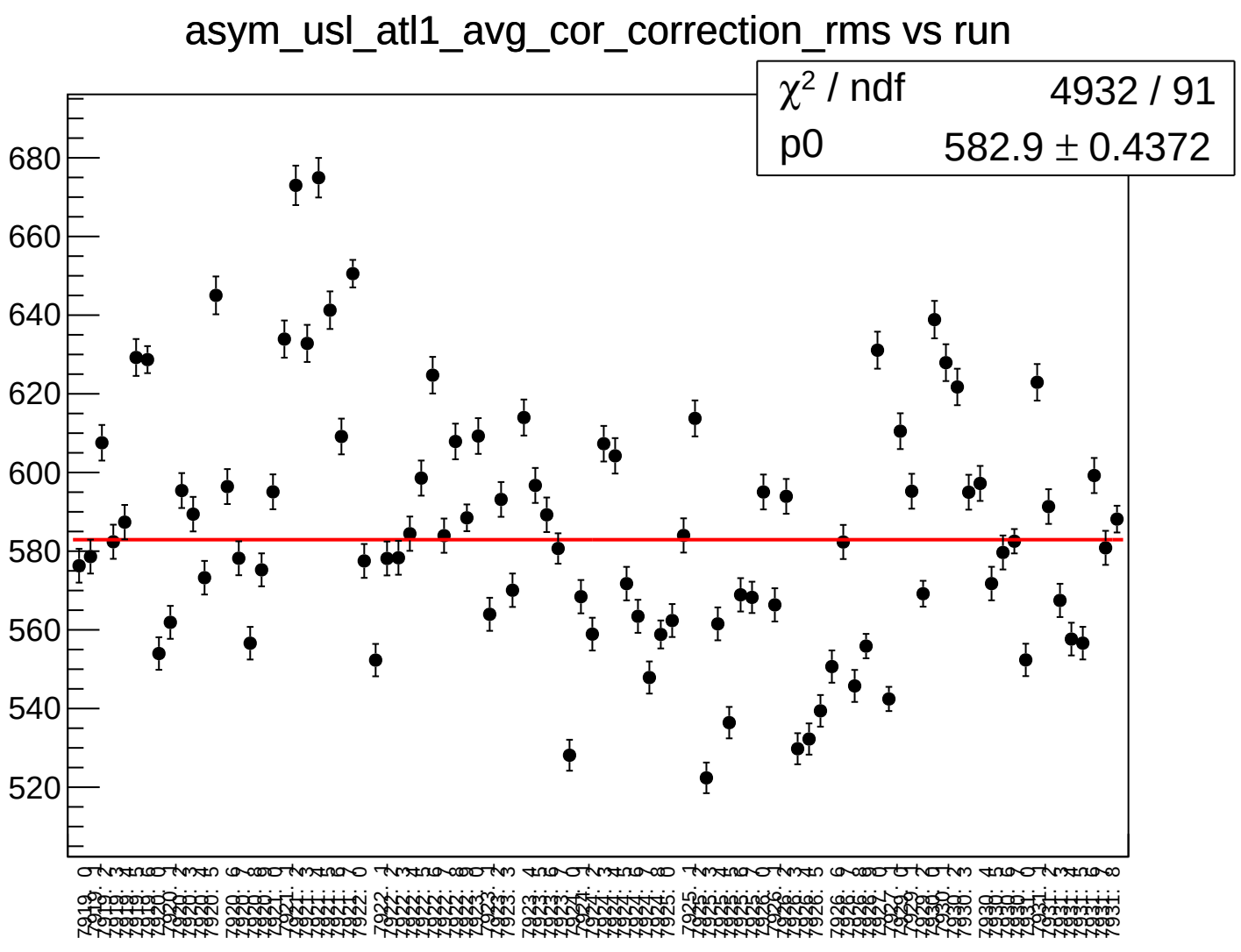

cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 76.83 / 91
p0 3051 ± 1534
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −257.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

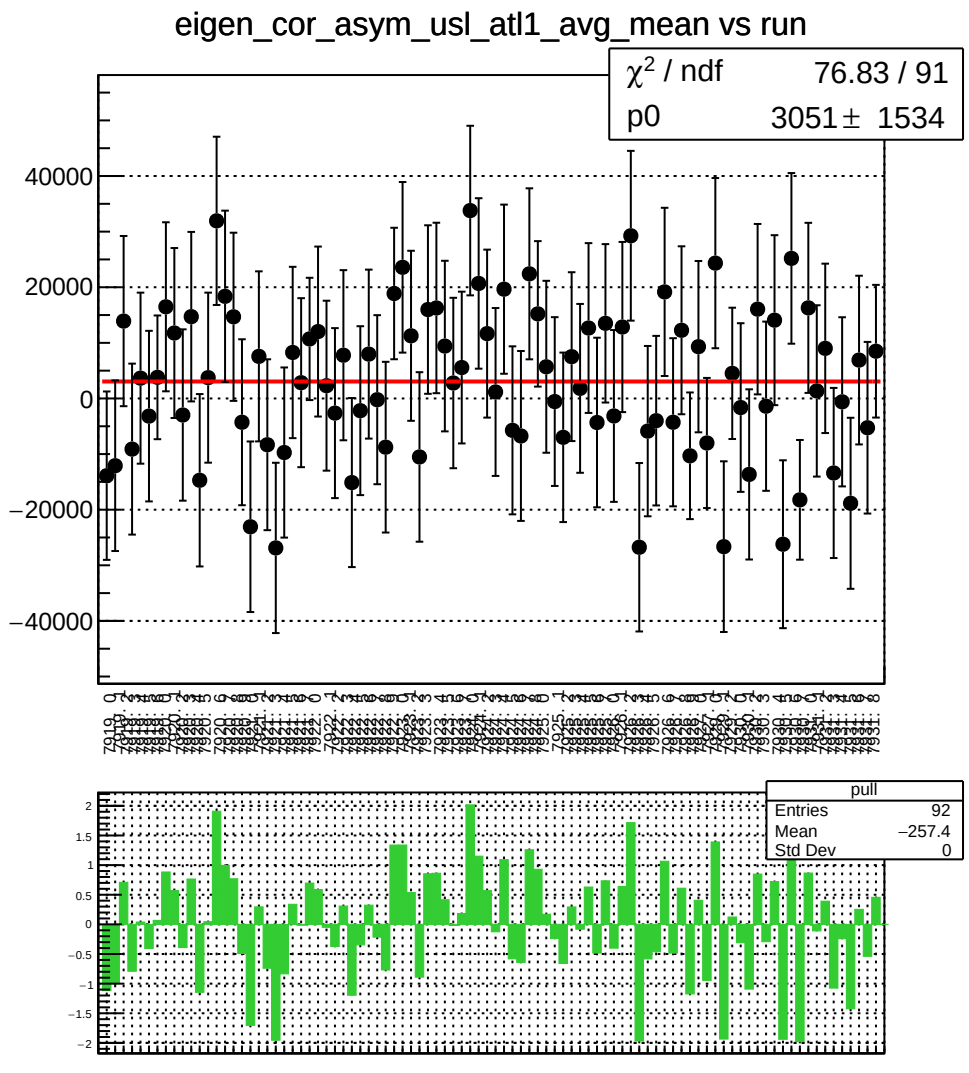

pull1D
Entries 92
Mean 0.004583
Std Dev 0.9138
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

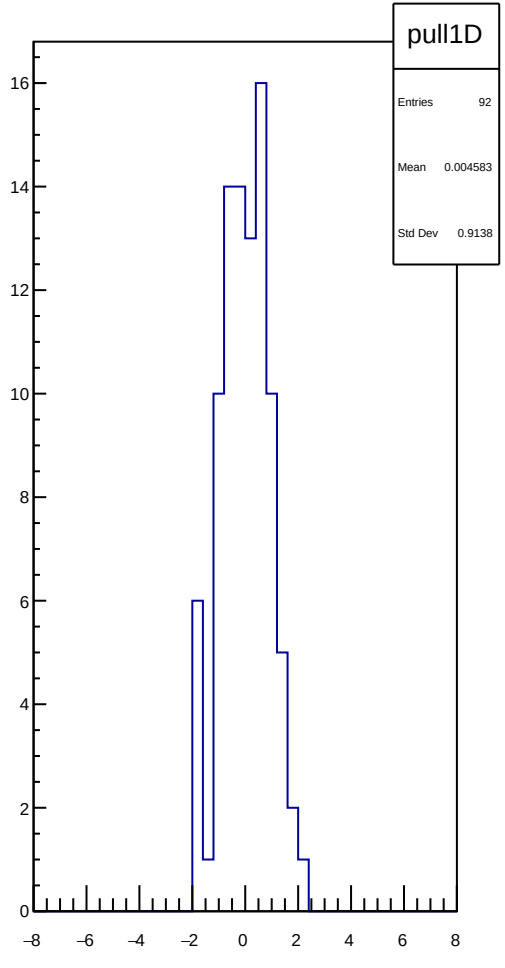

cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 67.53 / 91
p0 1448 ± 1.084
1480
1470
1460
1450
1440
1430
1420

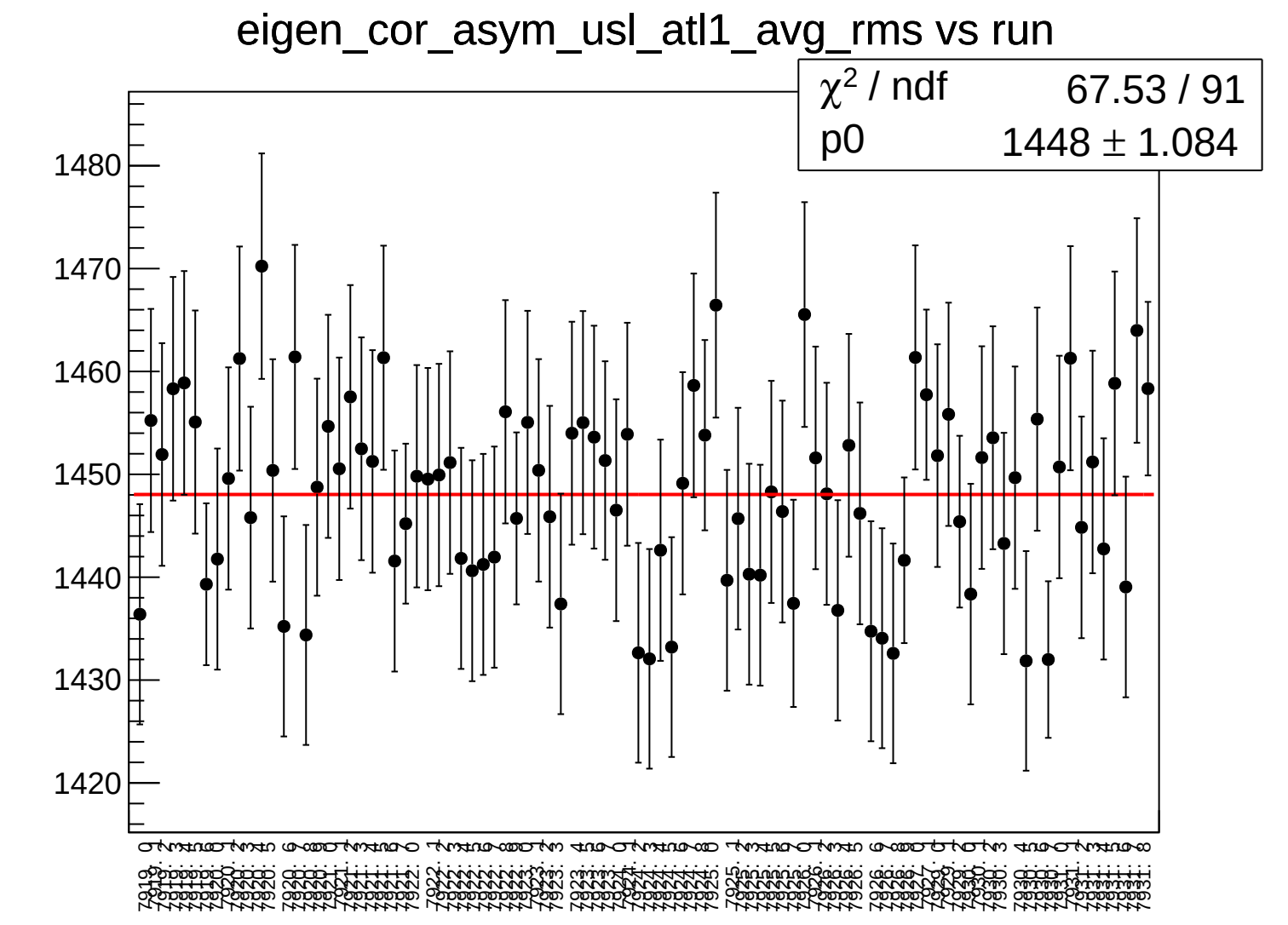

asym_usl_atl1_avg_cor_correction_mean vs run
χ² / ndf 85.46 / 91
p0 377.8 ± 618.2
pull
Entries 92
Mean −911.1
Std Dev 0

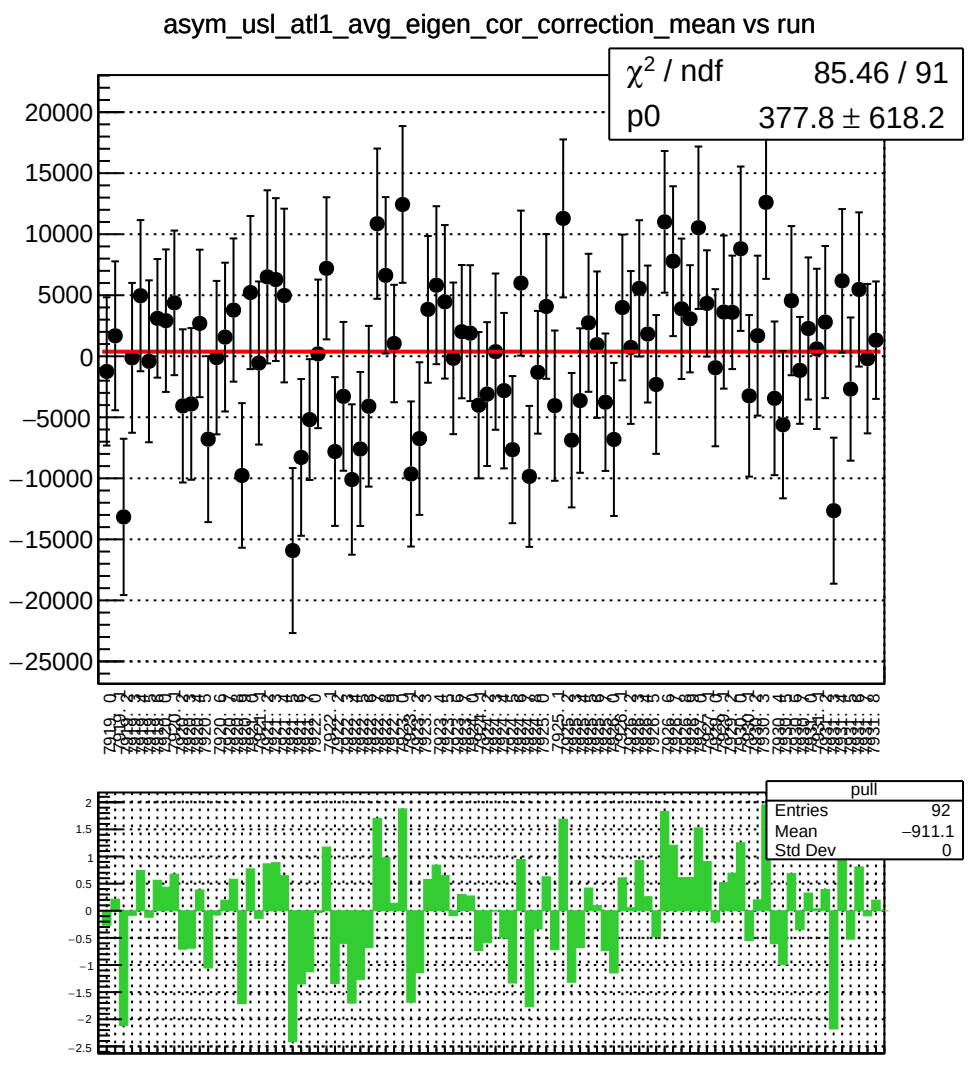

pull1D
Entries 92
Mean −0.004304
Std Dev 0.9638

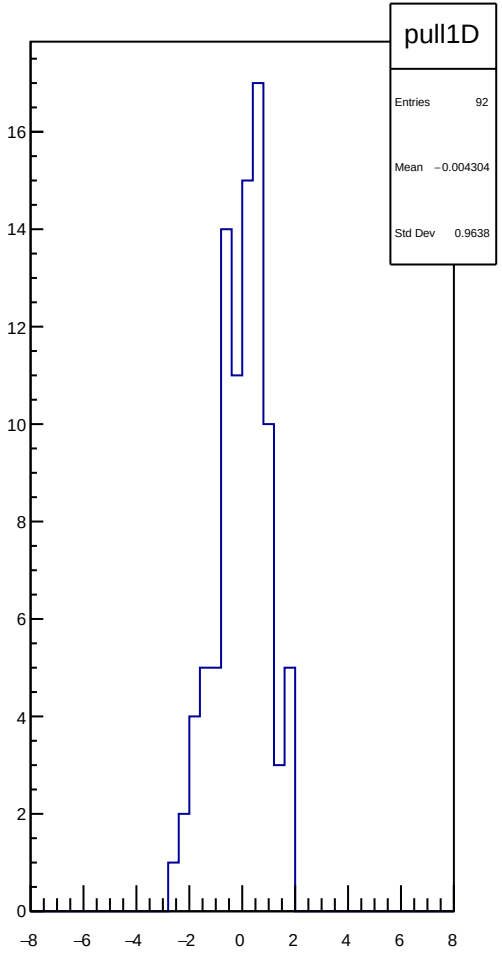

asym_usl_atl1_avg_cor_correction_rms vs run
χ² / ndf 4932 / 91
p0 582.9 ± 0.4372
680
660
640
620
600
580
560
540
520

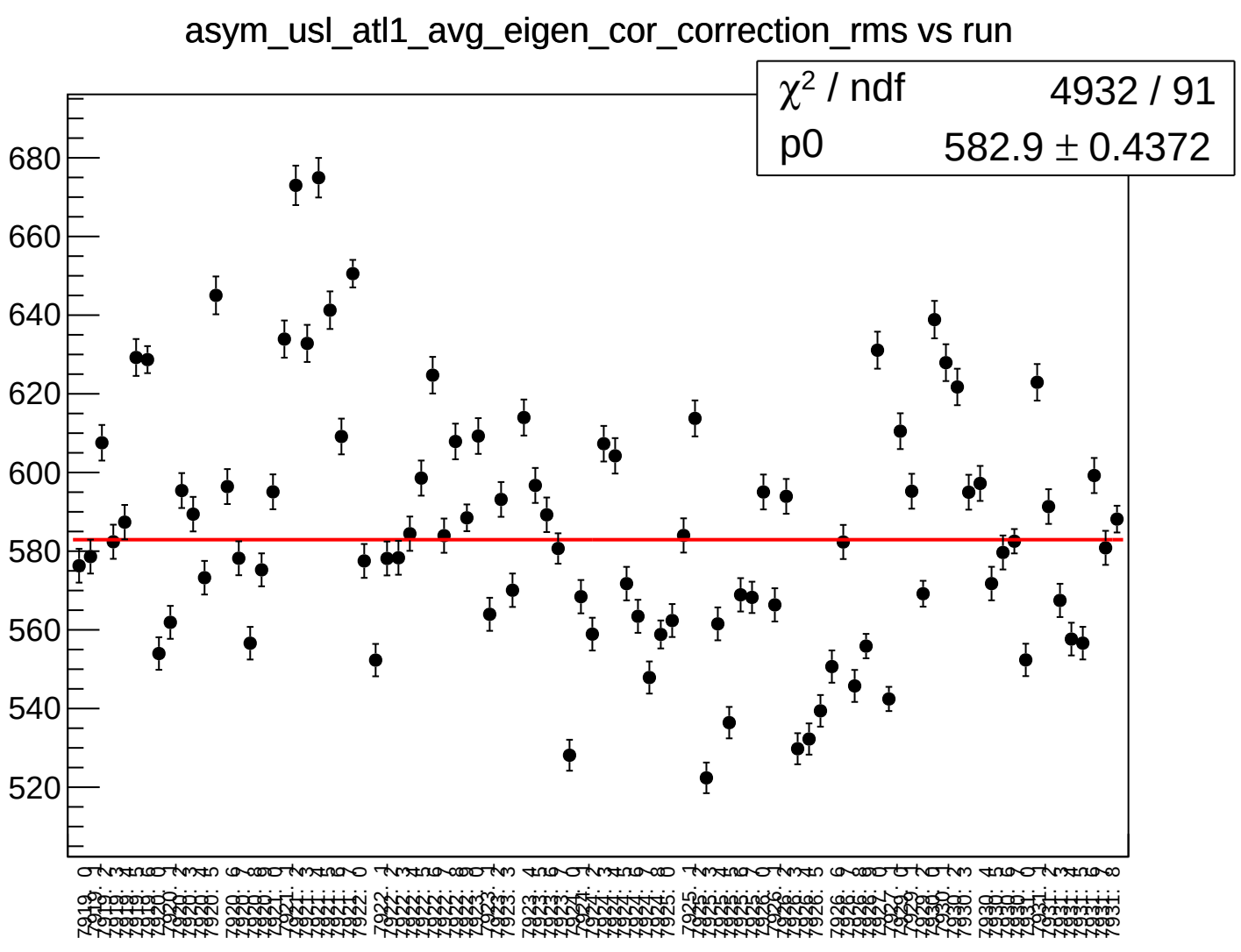

eigen_cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 76.83 / 91
p0 3051 ± 1534
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −257.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

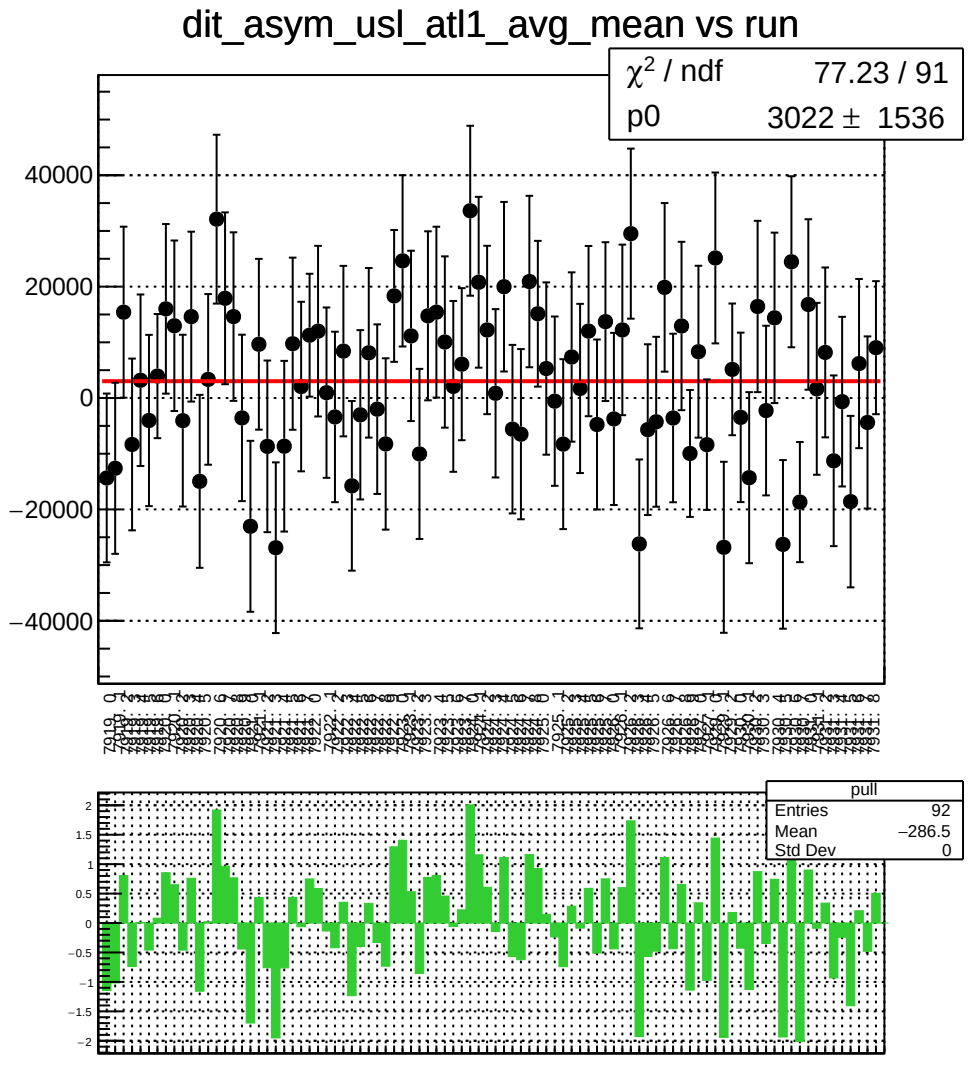

pull1D
Entries 92
Mean 0.004583
Std Dev 0.9138
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

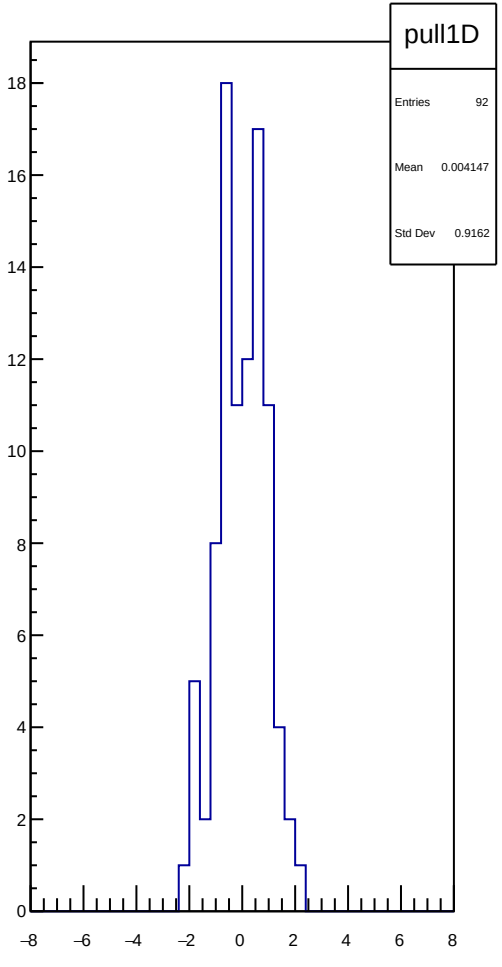

eigen_cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 67.53 / 91
p0 1448 ± 1.084
1480
1470
1460
1450
1440
1430
1420

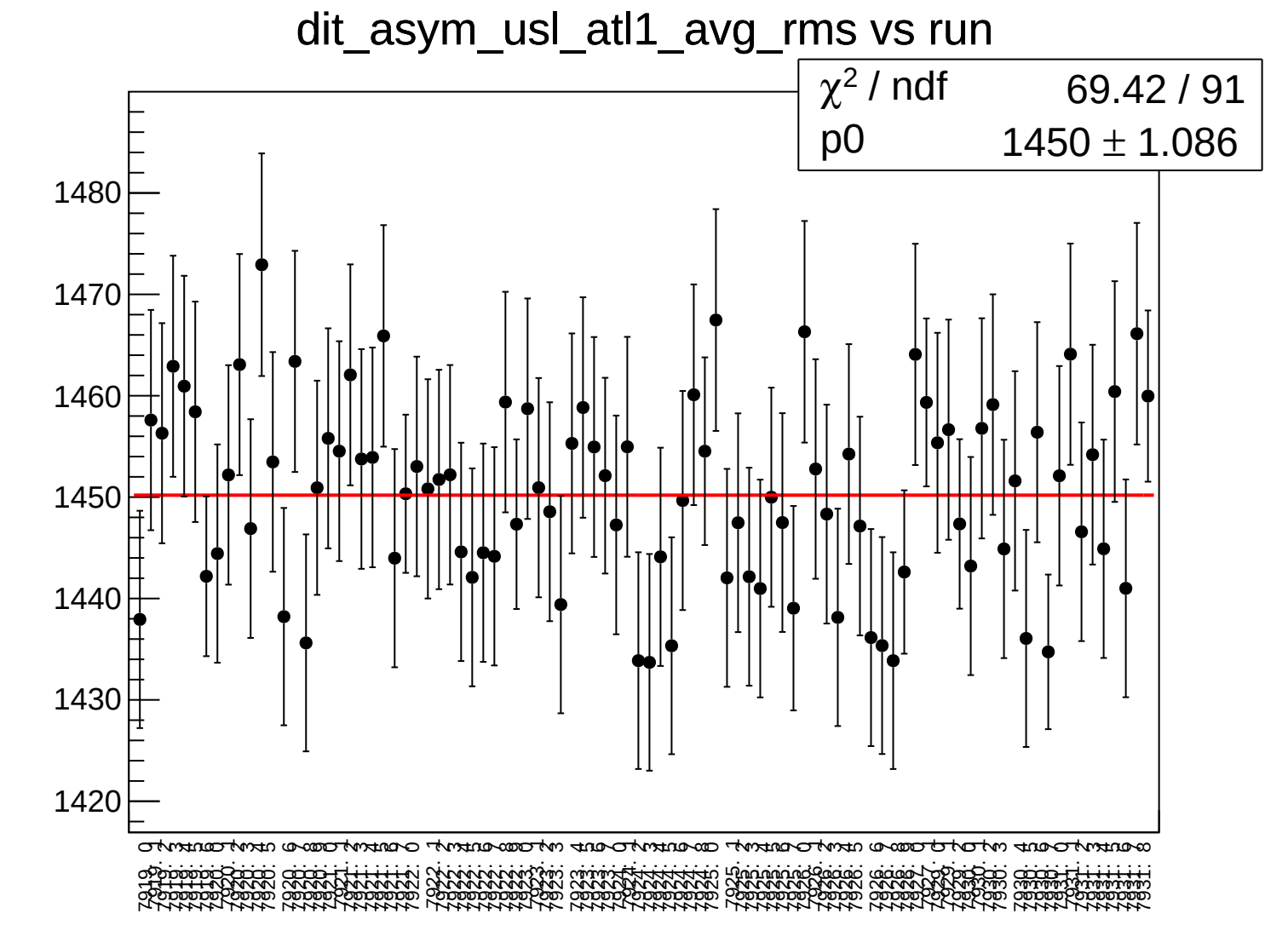

asym_usl_atl1_avg_eigen_cor_correction_mean vs run
χ² / ndf 85.46 / 91
p0 377.8 ± 618.2
pull
Entries 92
Mean −911.1
Std Dev 0

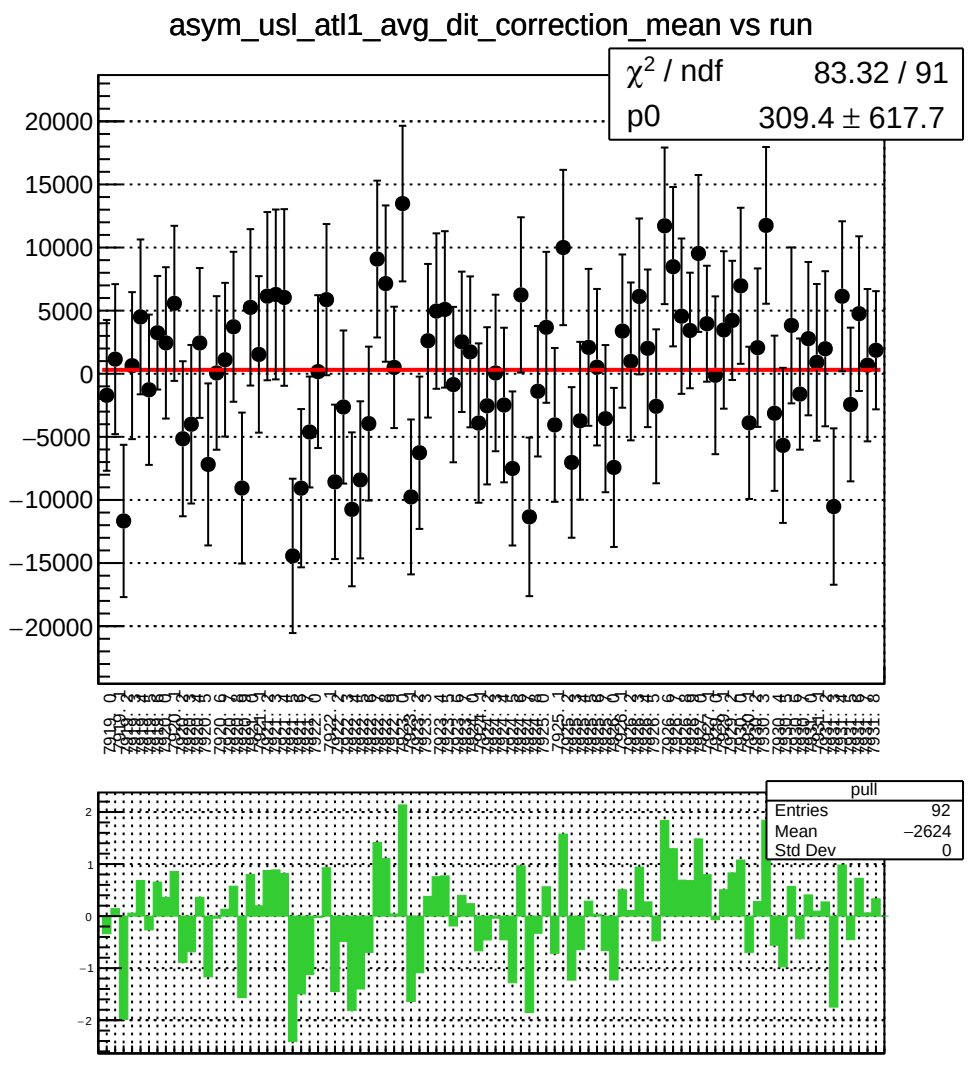

pull1D
Entries 92
Mean −0.004304
Std Dev 0.9638

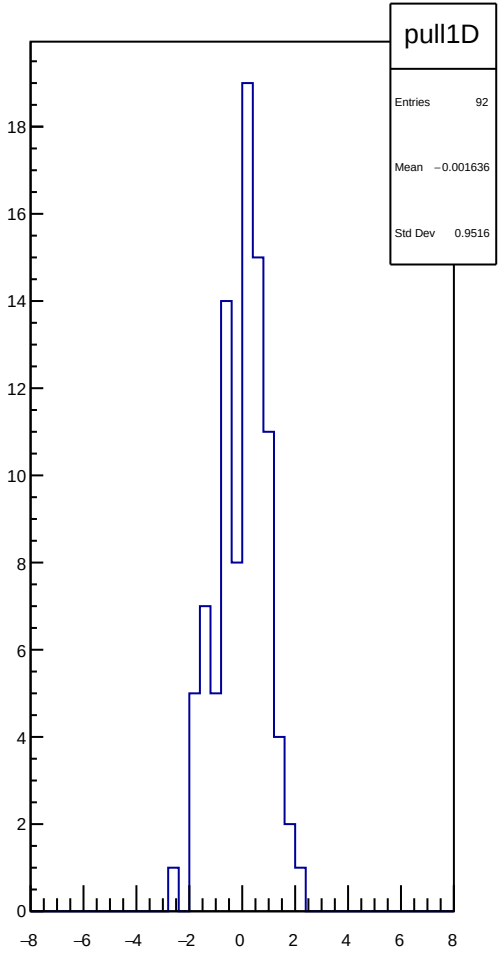

asym_usl_atl1_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 4932 / 91
p0 582.9 ± 0.4372
680
660
640
620
600
580
560
540
520

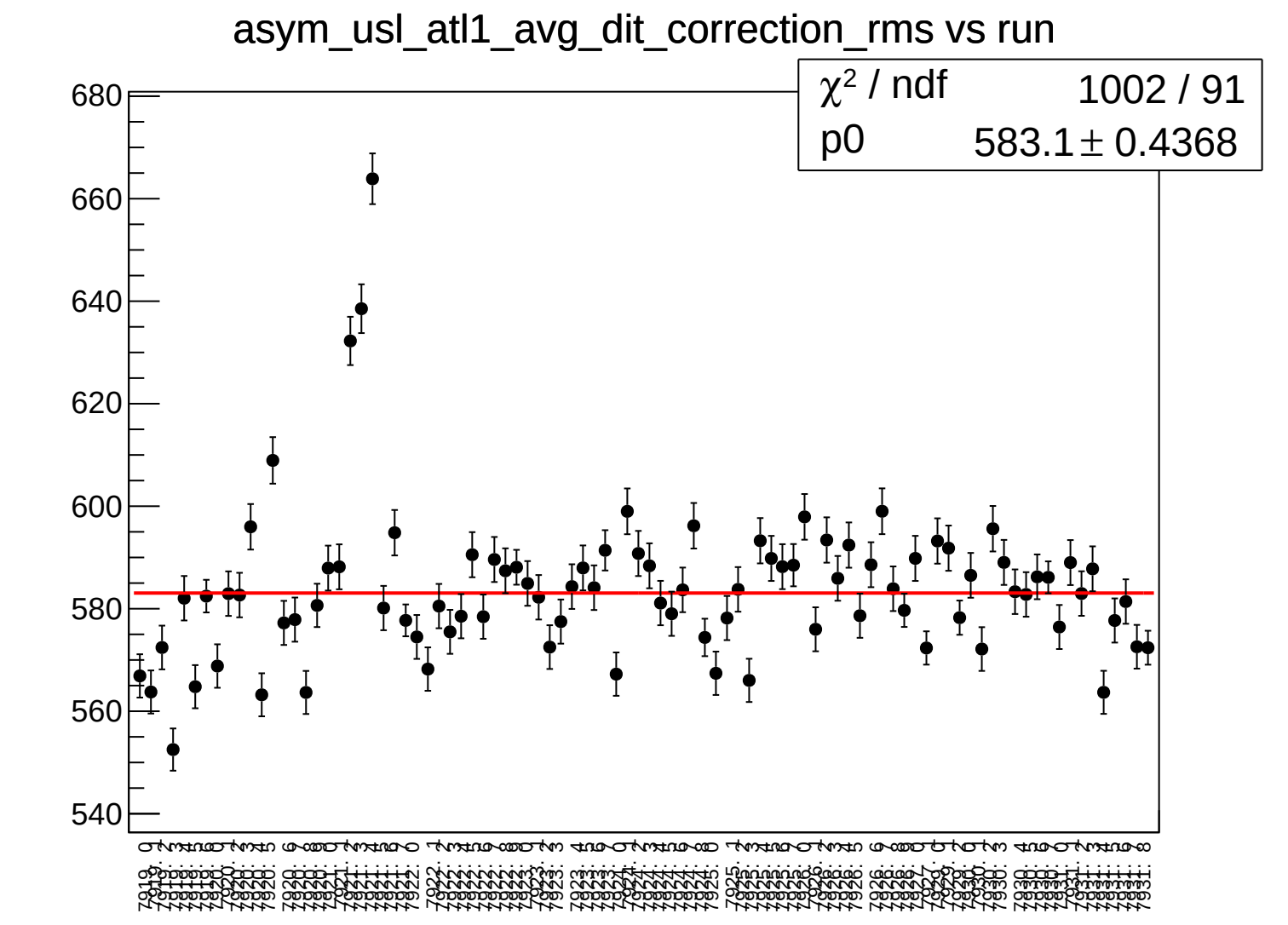

dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 77.23 / 91
p0 3022 ± 1536
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −286.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

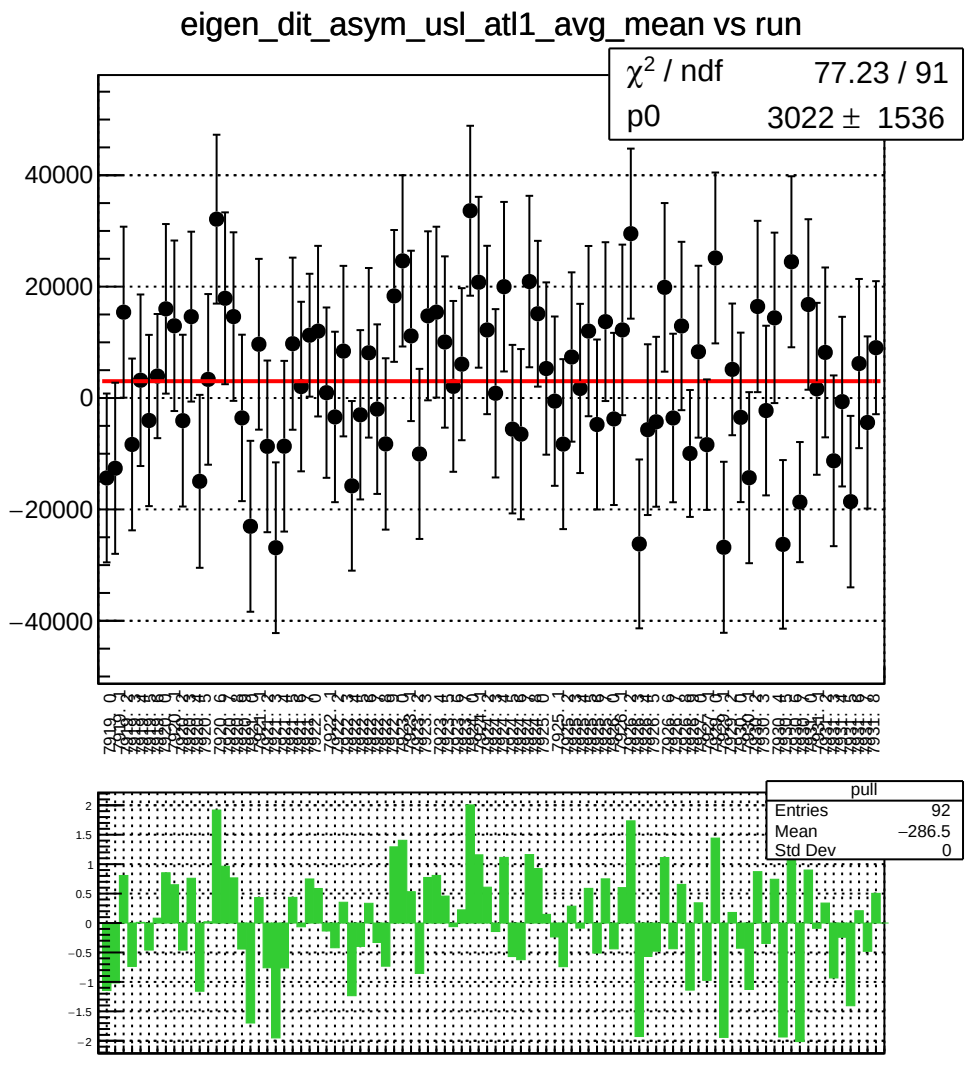

pull1D
Entries 92
Mean 0.004147
Std Dev 0.9162
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

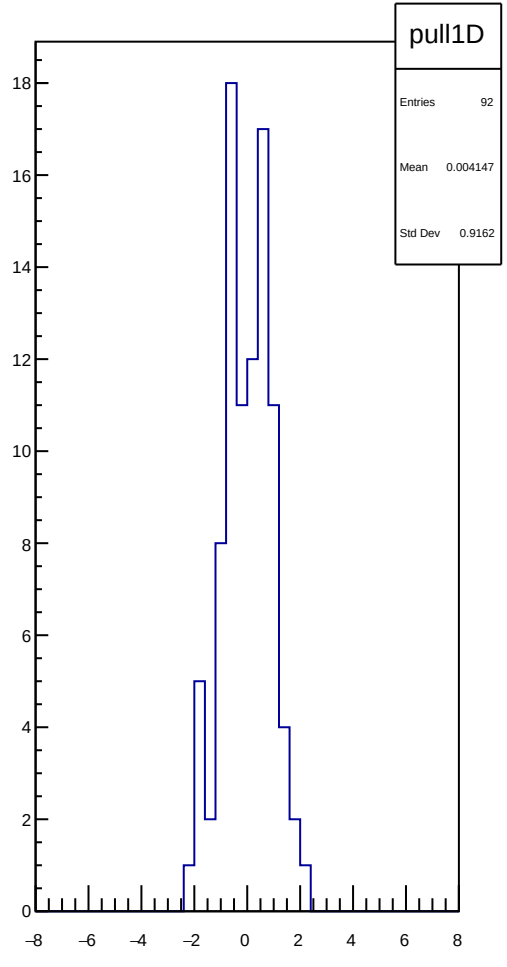

dit_asym_usl_atl1_avg_rms vs run
χ^2 / ndf 69.42 / 91
p0 1450 ± 1.086
1480
1470
1460
1450
1440
1430
1420

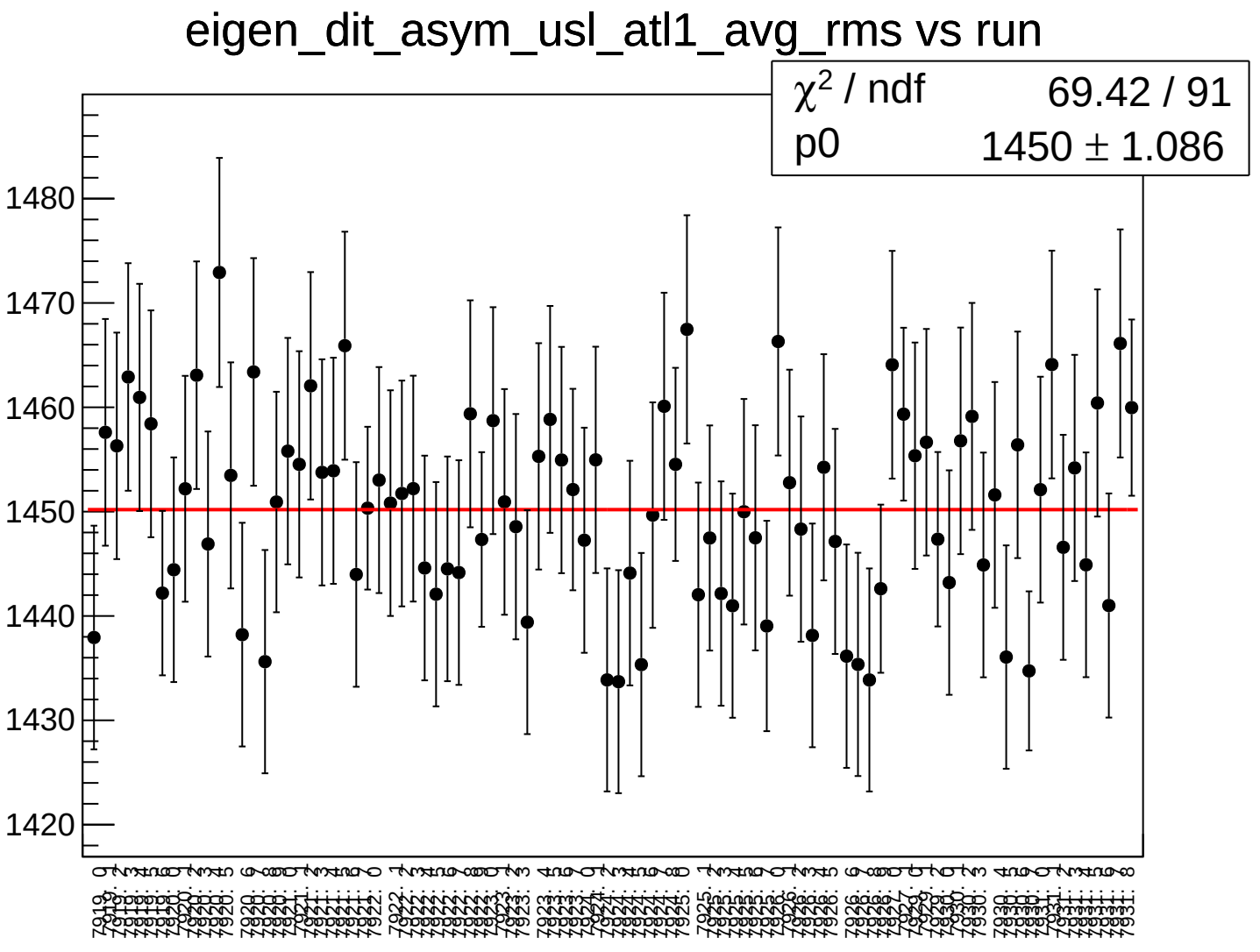

asym_usl_atl1_avg_dit_correction_mean vs run
χ² / ndf 83.32 / 91
p0 309.4 ± 617.7
pull
Entries 92
Mean −2624
Std Dev 0

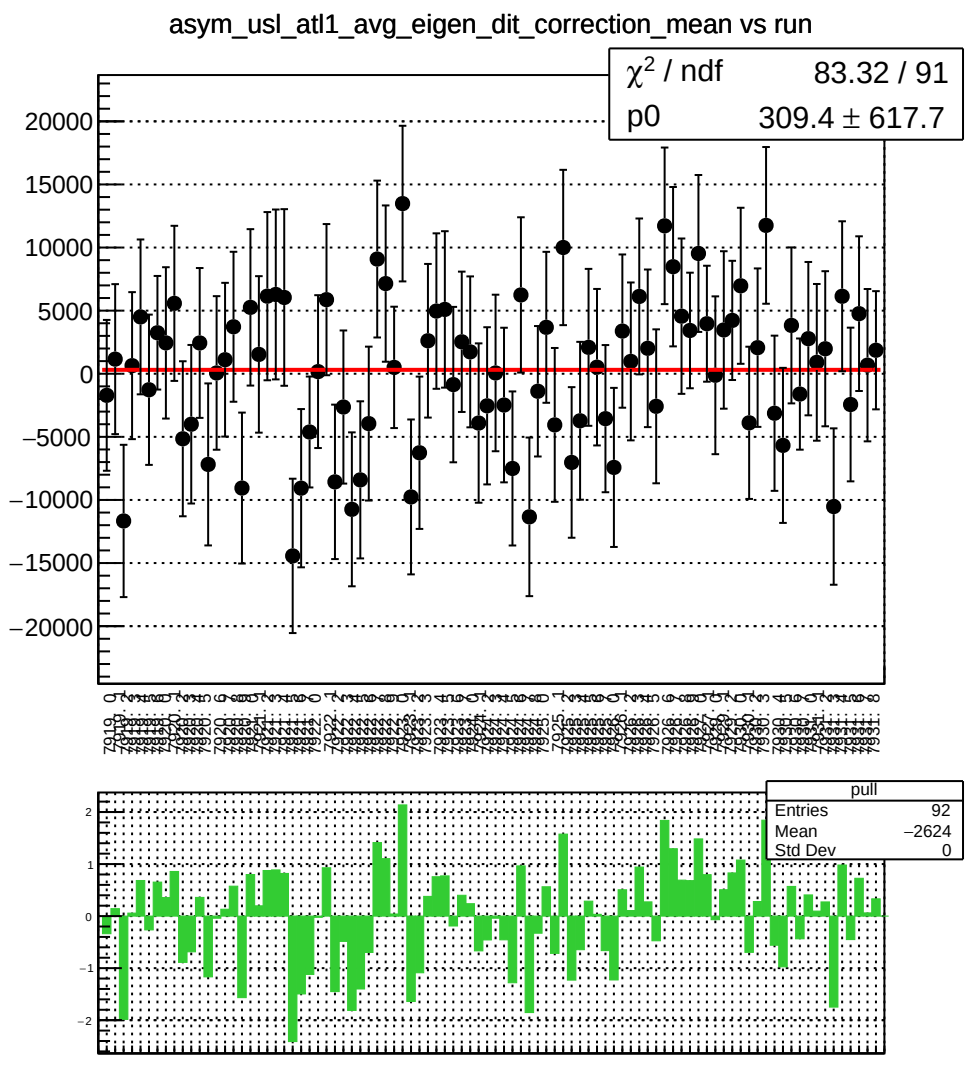

pull1D
Entries 92
Mean −0.001636
Std Dev 0.9516

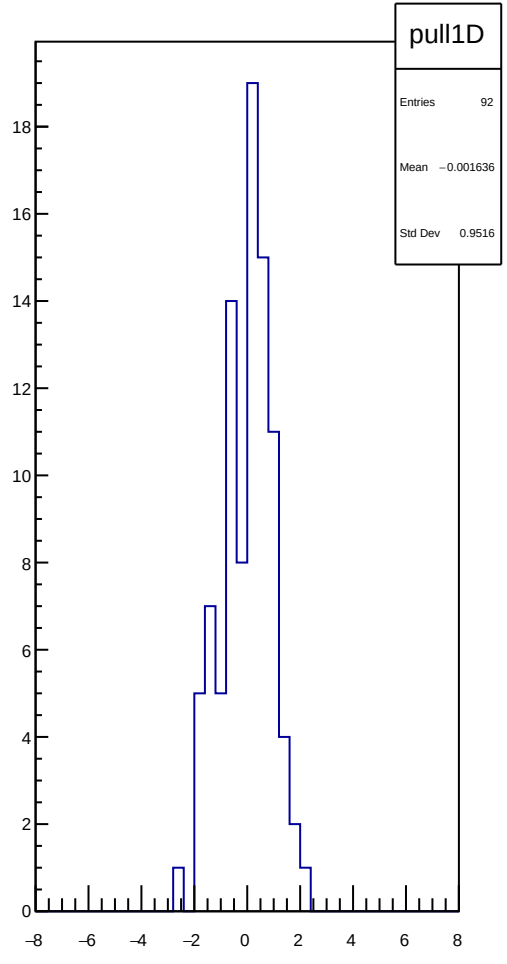

asym_usl_atl1_avg_dit_correction_rms vs run
χ² / ndf 1002 / 91
p0 583.1 ± 0.4368
680
660
640
620
600
580
560
540

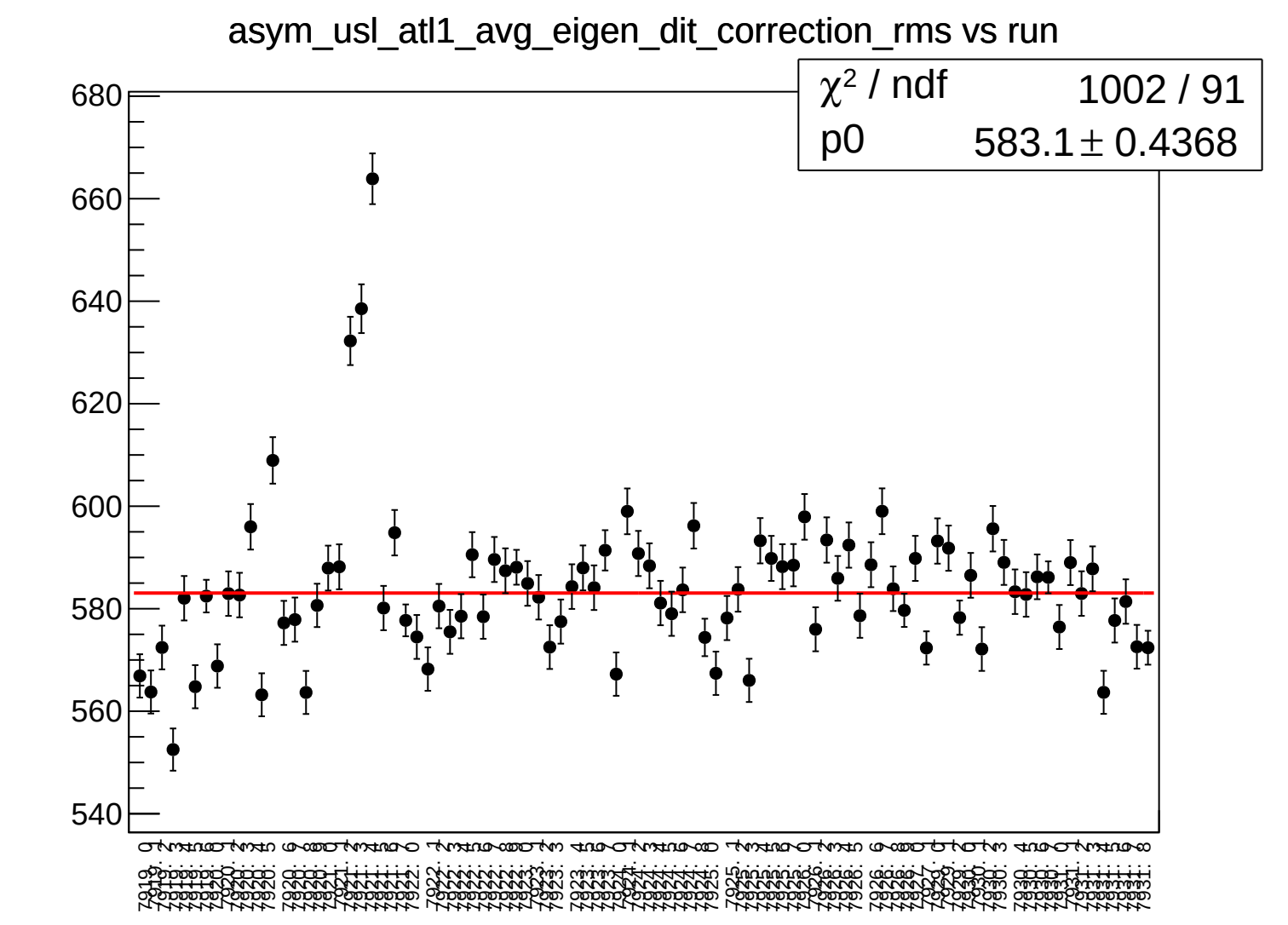

eigen_dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 77.23 / 91
p0 3022 ± 1536
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −286.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

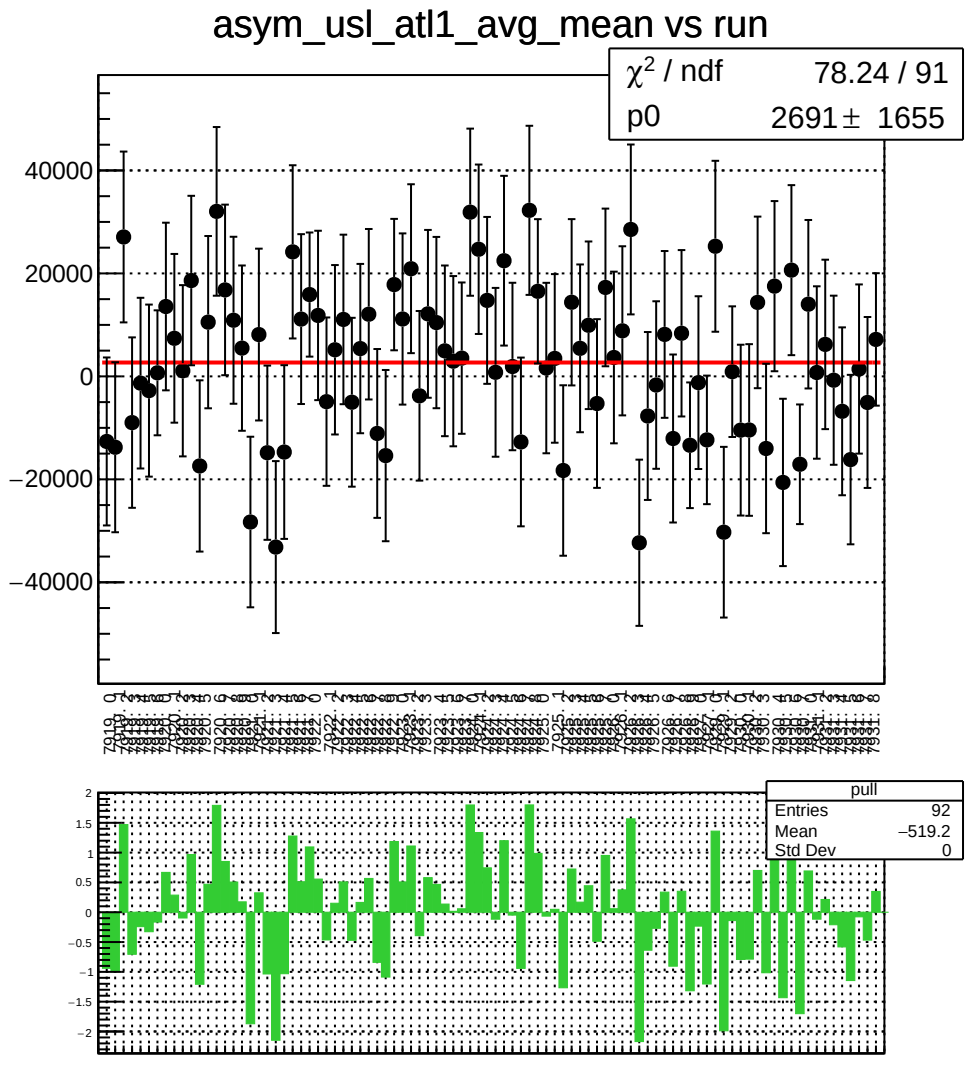

pull1D
Entries 92
Mean 0.004147
Std Dev 0.9162
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

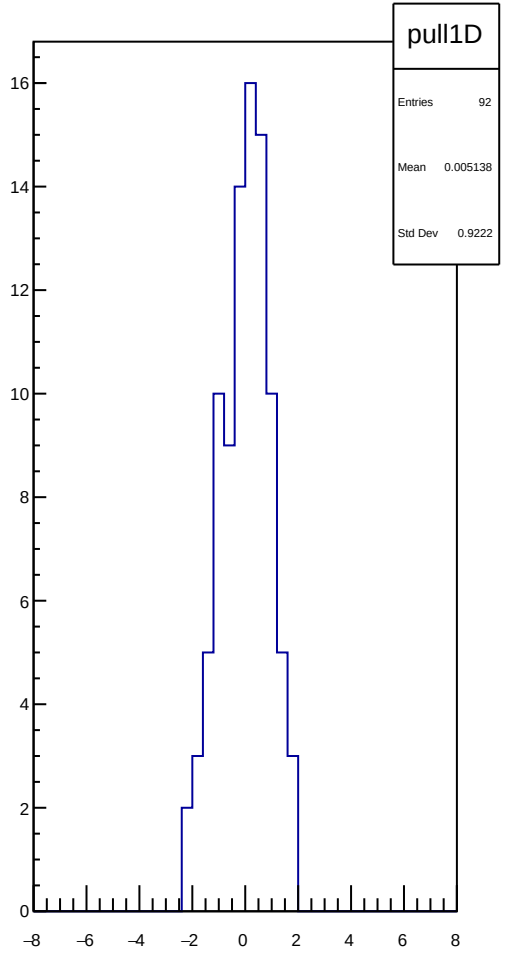

eigen_dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 69.42 / 91
p0 1450 ± 1.086
1480
1470
1460
1450
1440
1430
1420

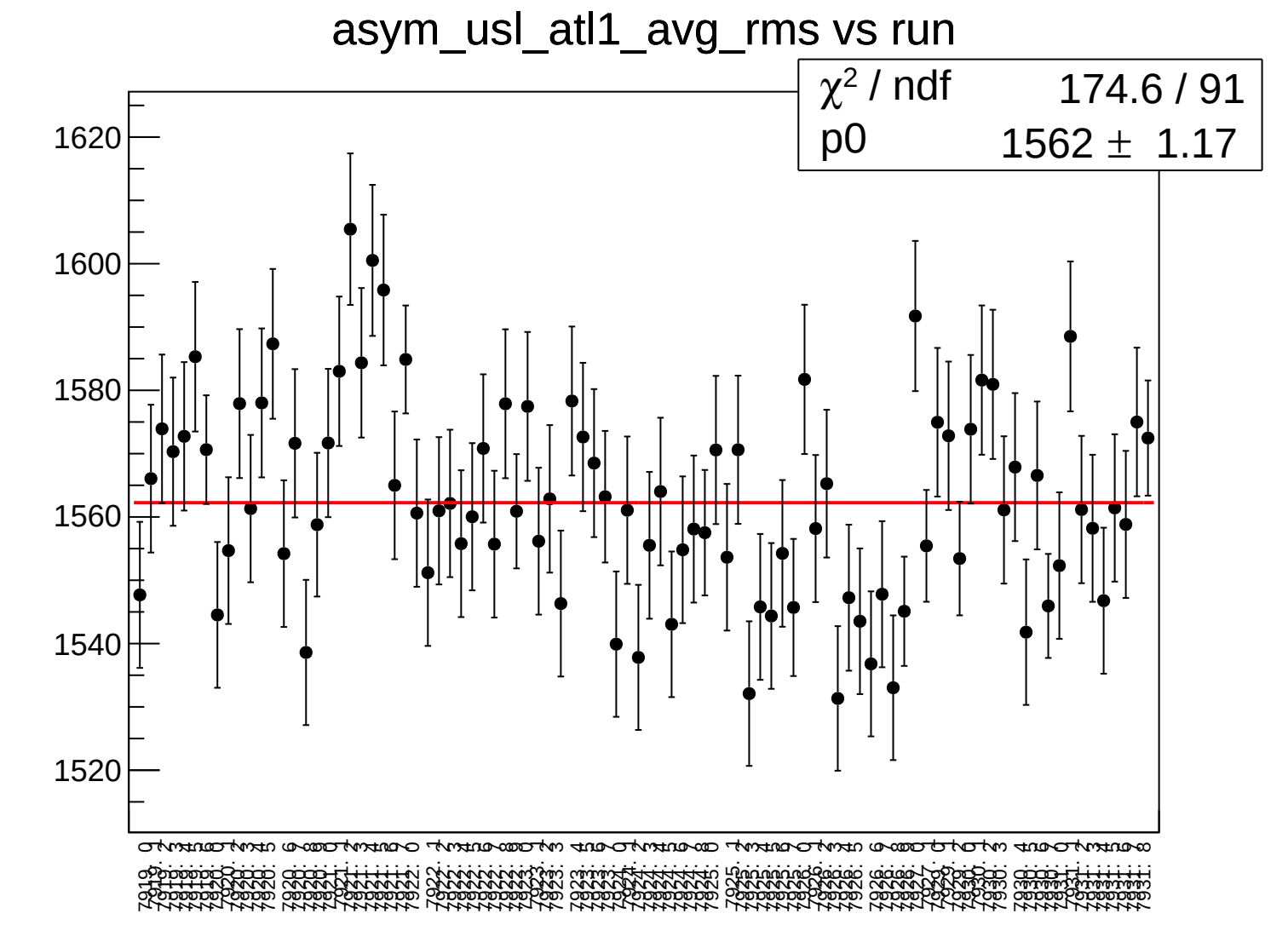

asym_usl_atl1_avg_eigen_dit_correction_mean vs run
χ² / ndf 83.32 / 91
p0 309.4 ± 617.7
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 92
Mean −2624
Std Dev 0
2
1
0
−1
−2

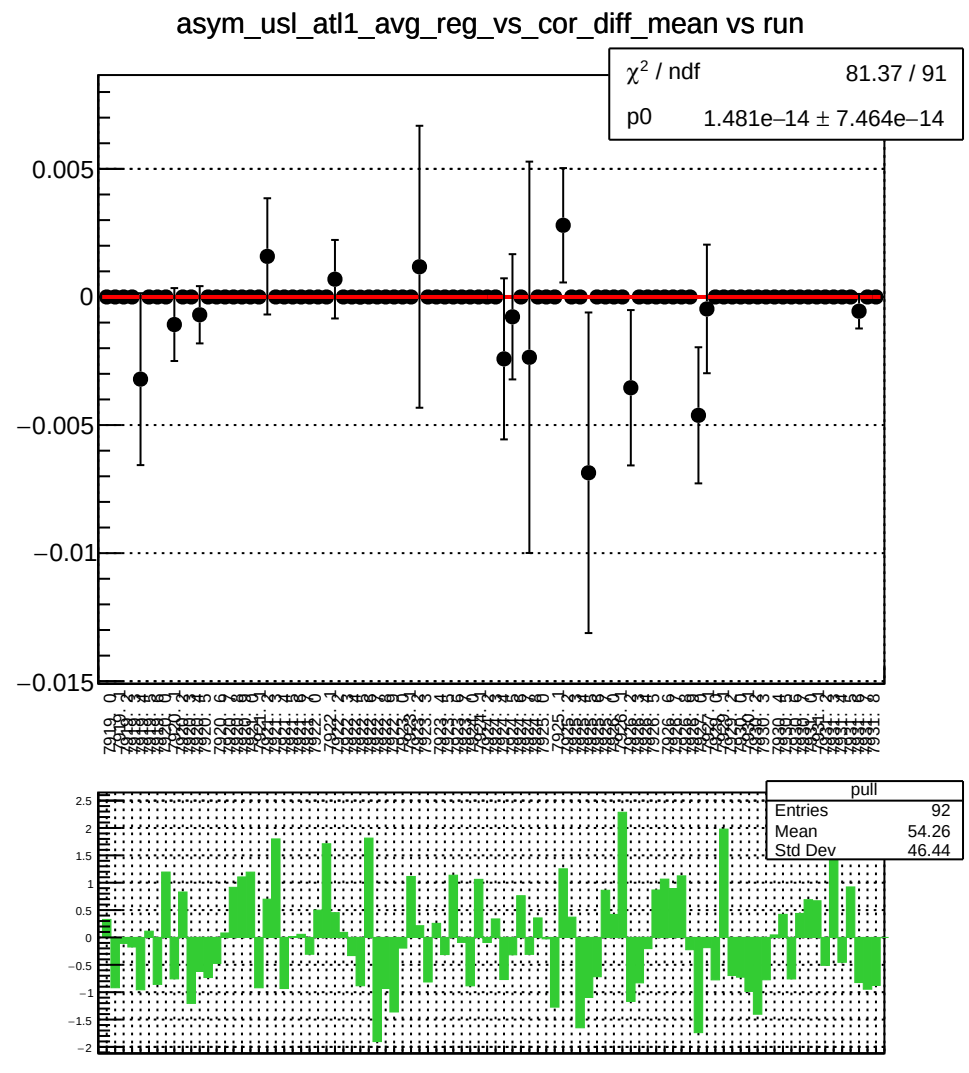

pull1D
Entries 92
Mean −0.001636
Std Dev 0.9516
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

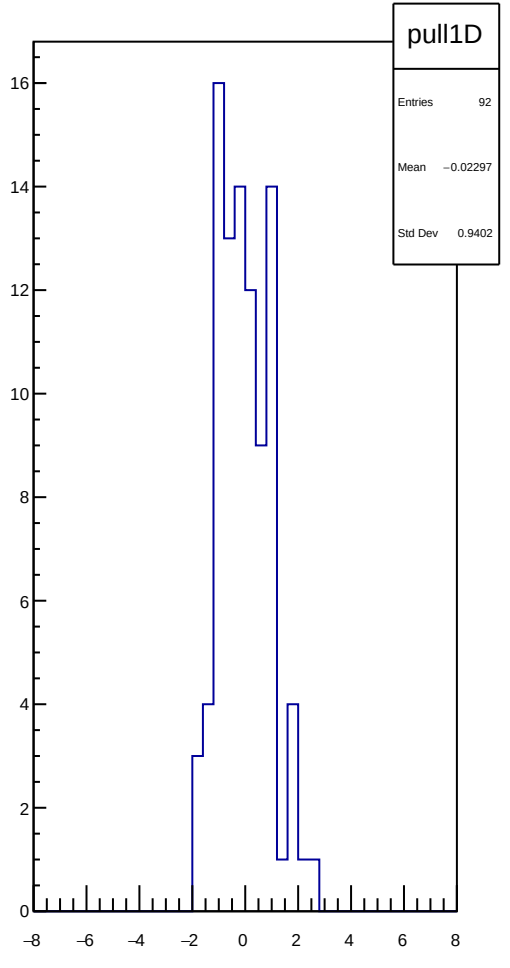

asym_usl_atl1_avg_eigen_dit_correction_rms vs run
χ² / ndf 1002 / 91
p0 583.1 ± 0.4368
680
660
640
620
600
580
560
540

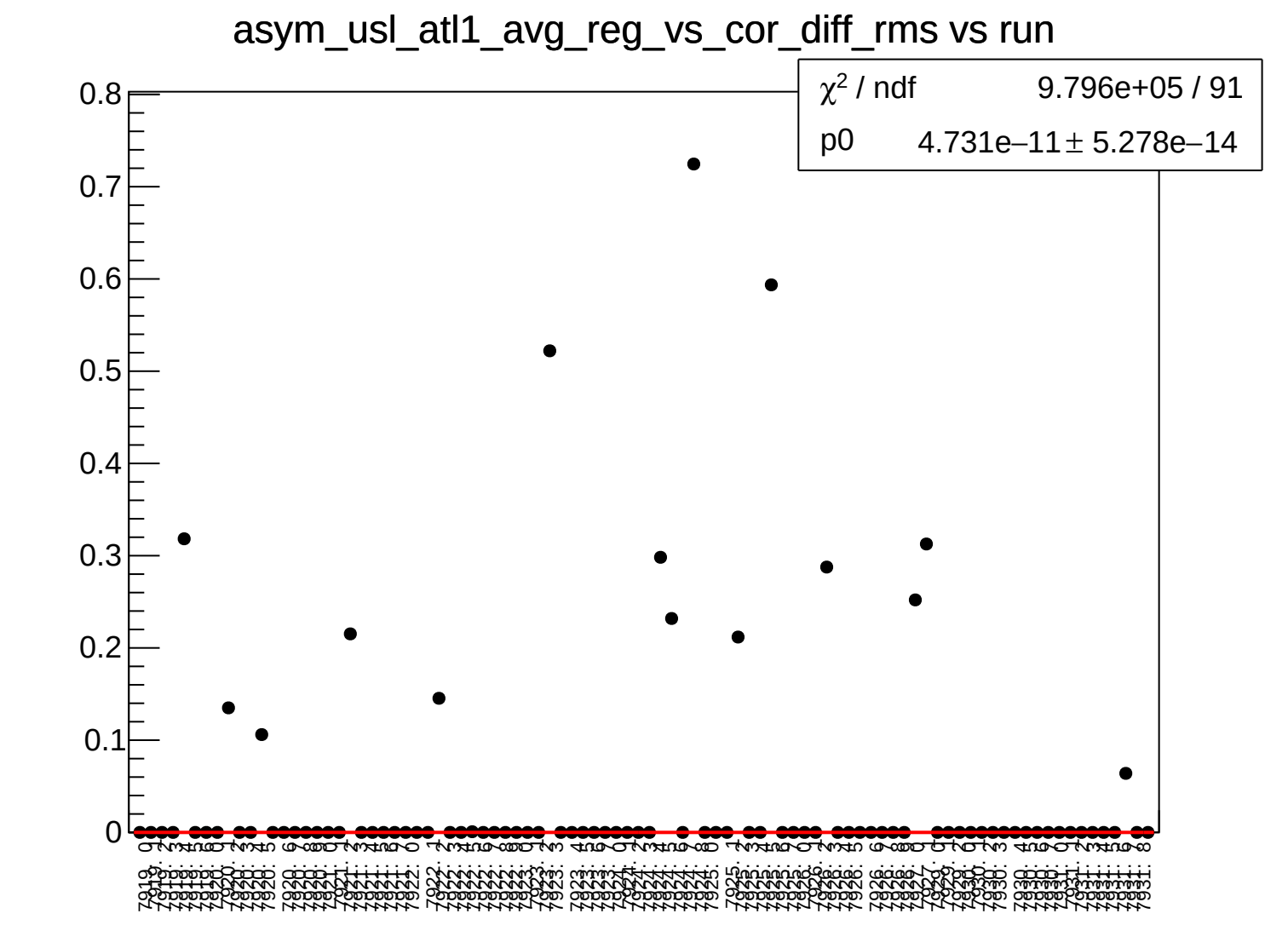

asym_usl_atl1_avg_mean vs run
χ² / ndf 78.24 / 91
p0 2691 ± 1655
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −519.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

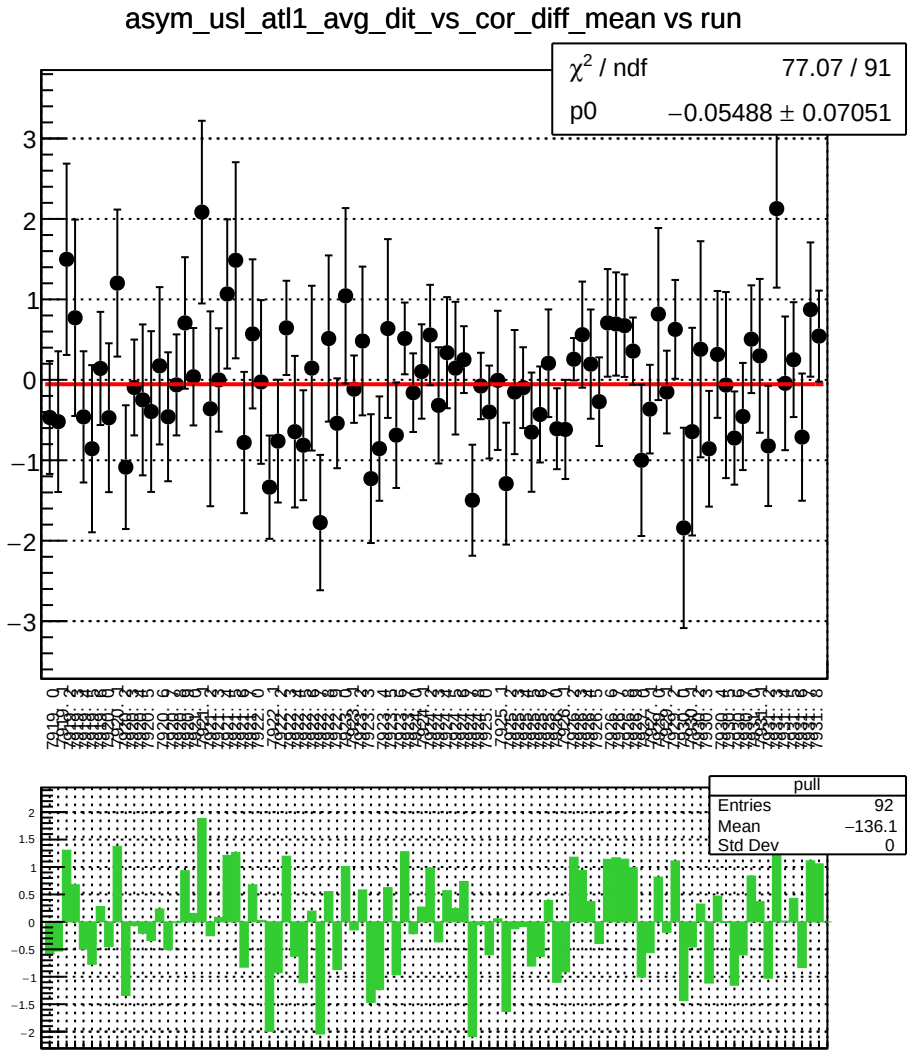

pull1D
Entries 92
Mean 0.005138
Std Dev 0.9222
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

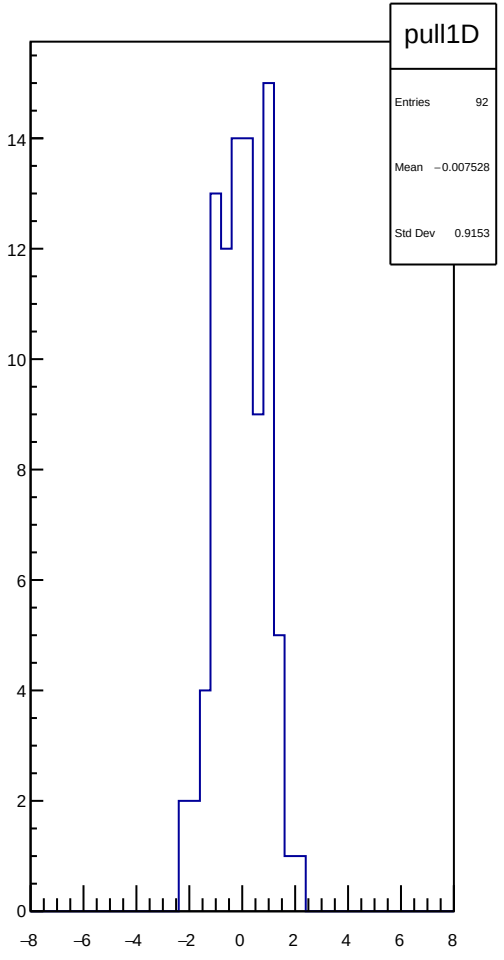

asym_usl_atl1_avg_rms vs run
χ² / ndf 174.6 / 91
p0 1562 ± 1.17
1620
1600
1580
1560
1540
1520

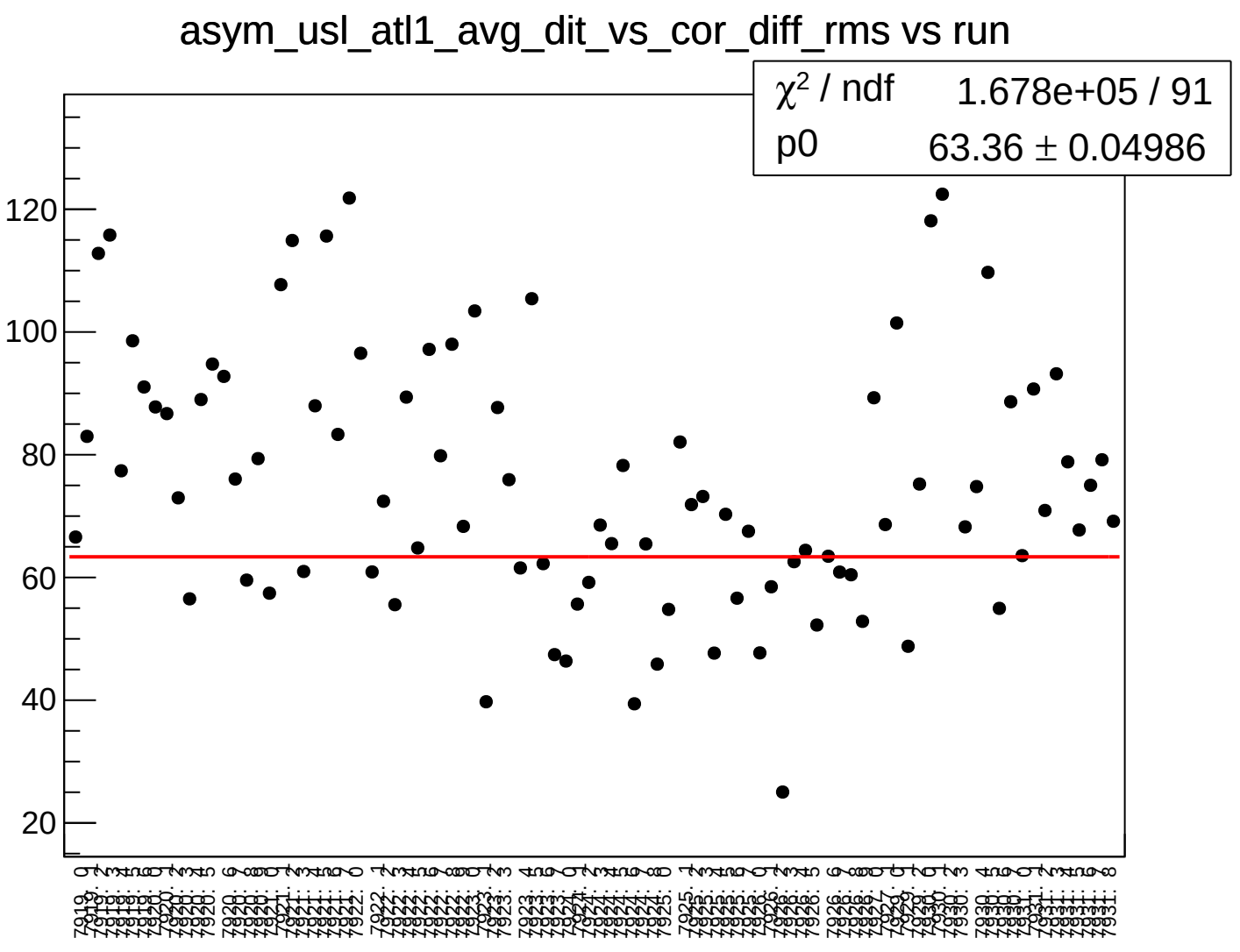

asym_usl_atl1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 81.37 / 91
p0 1.481e−14 ± 7.464e−14
0.005
0
−0.005
−0.01
−0.015
pull
Entries 92
Mean 54.26
Std Dev 46.44
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

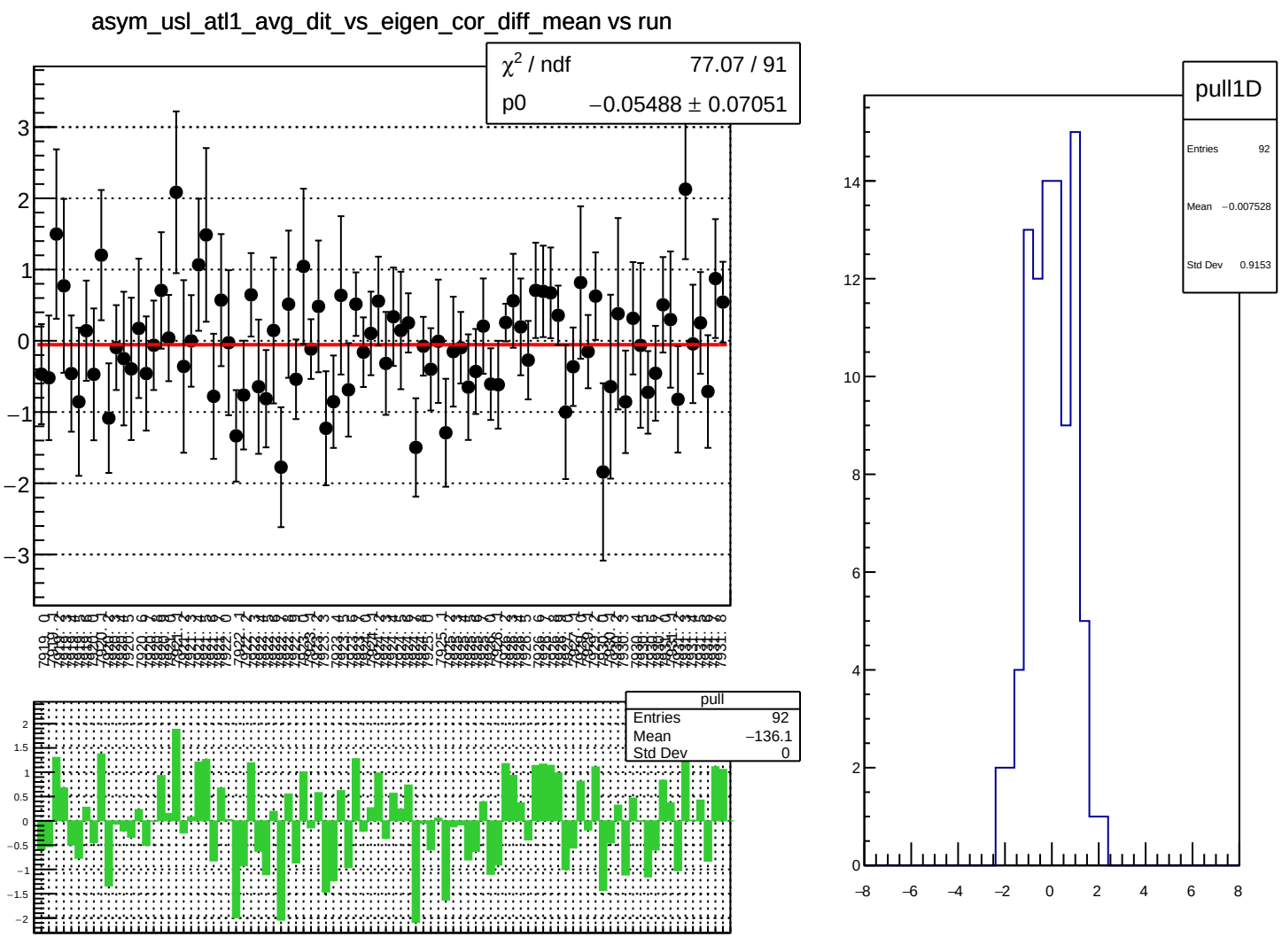

pull1D
Entries 92
Mean −0.02297
Std Dev 0.9402
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

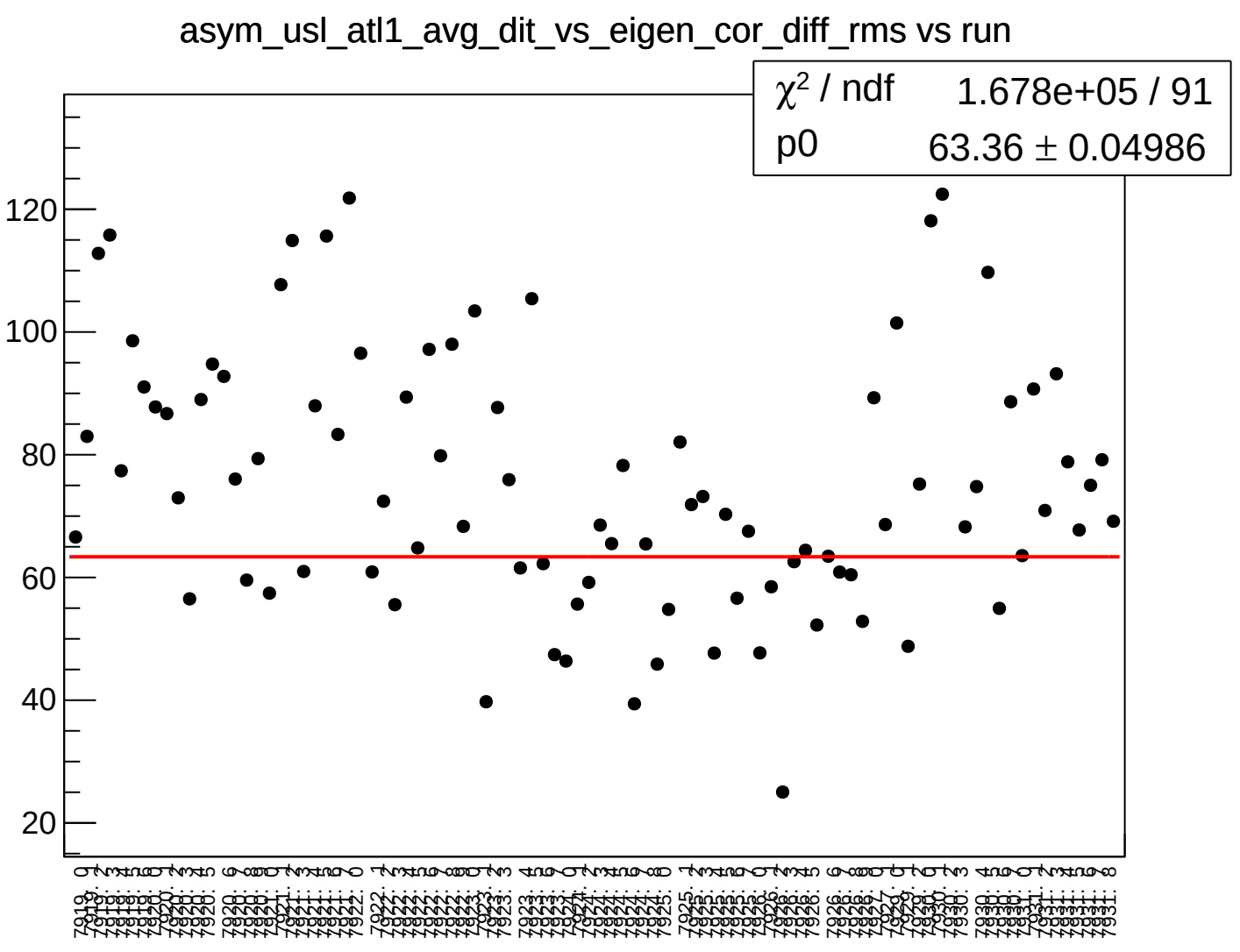

asym_usl_atl1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.796e+05 / 91
p0 4.731e−11 ± 5.278e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

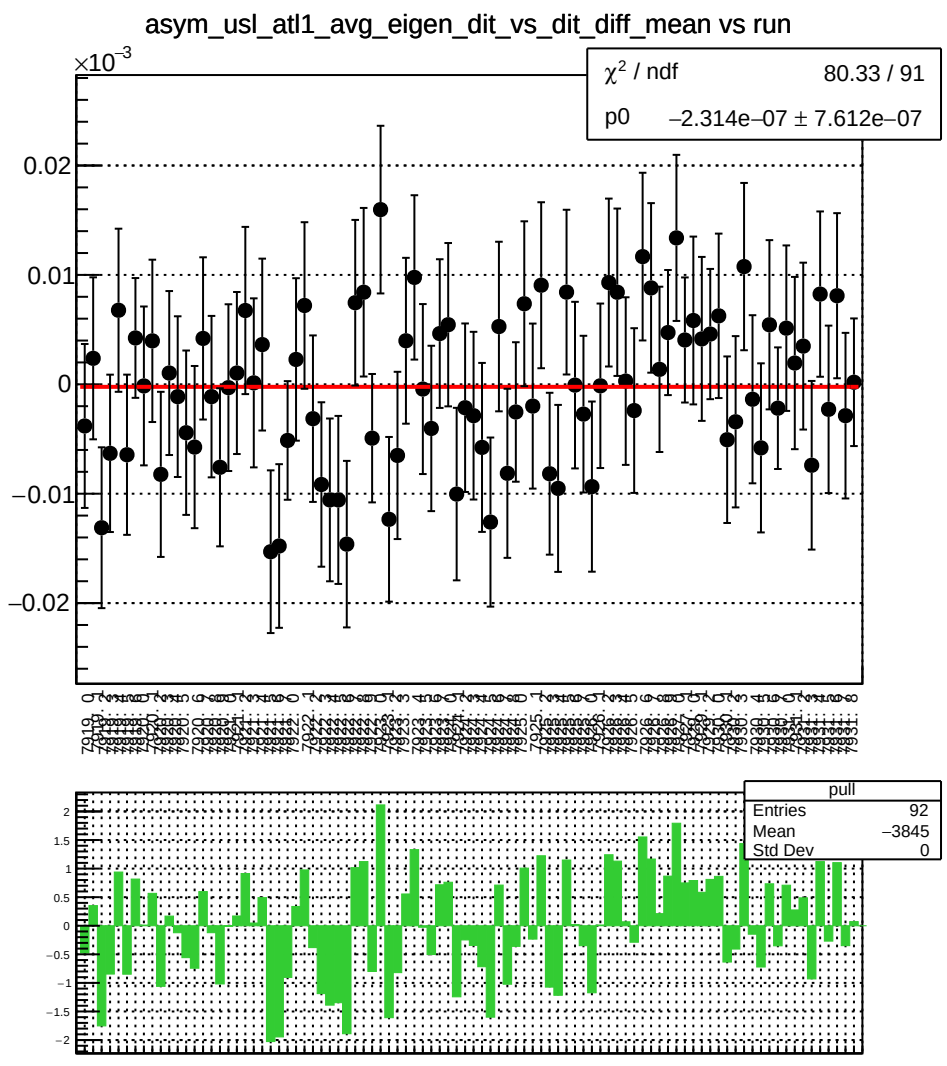

asym_usl_atl1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 77.07 / 91
p0 −0.05488 ± 0.07051
pull
Entries 92
Mean −136.1
Std Dev 0

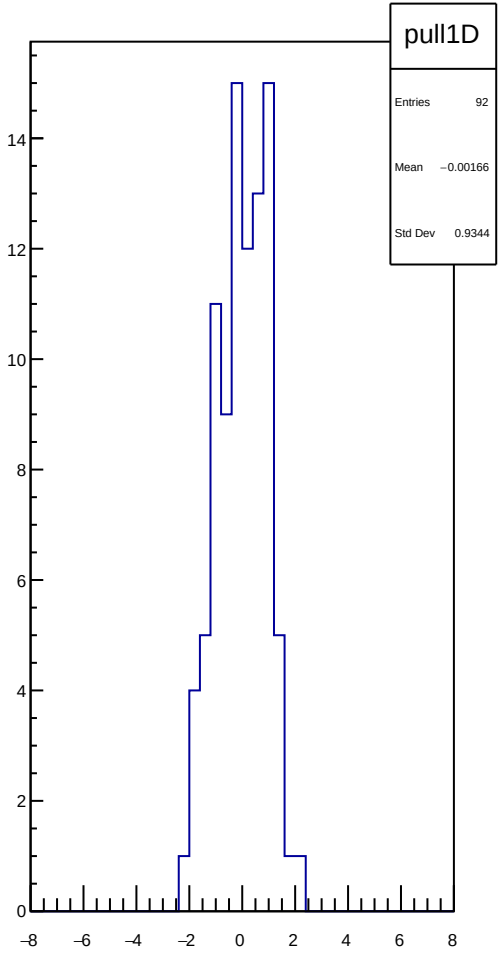

pull1D
Entries 92
Mean −0.007528
Std Dev 0.9153

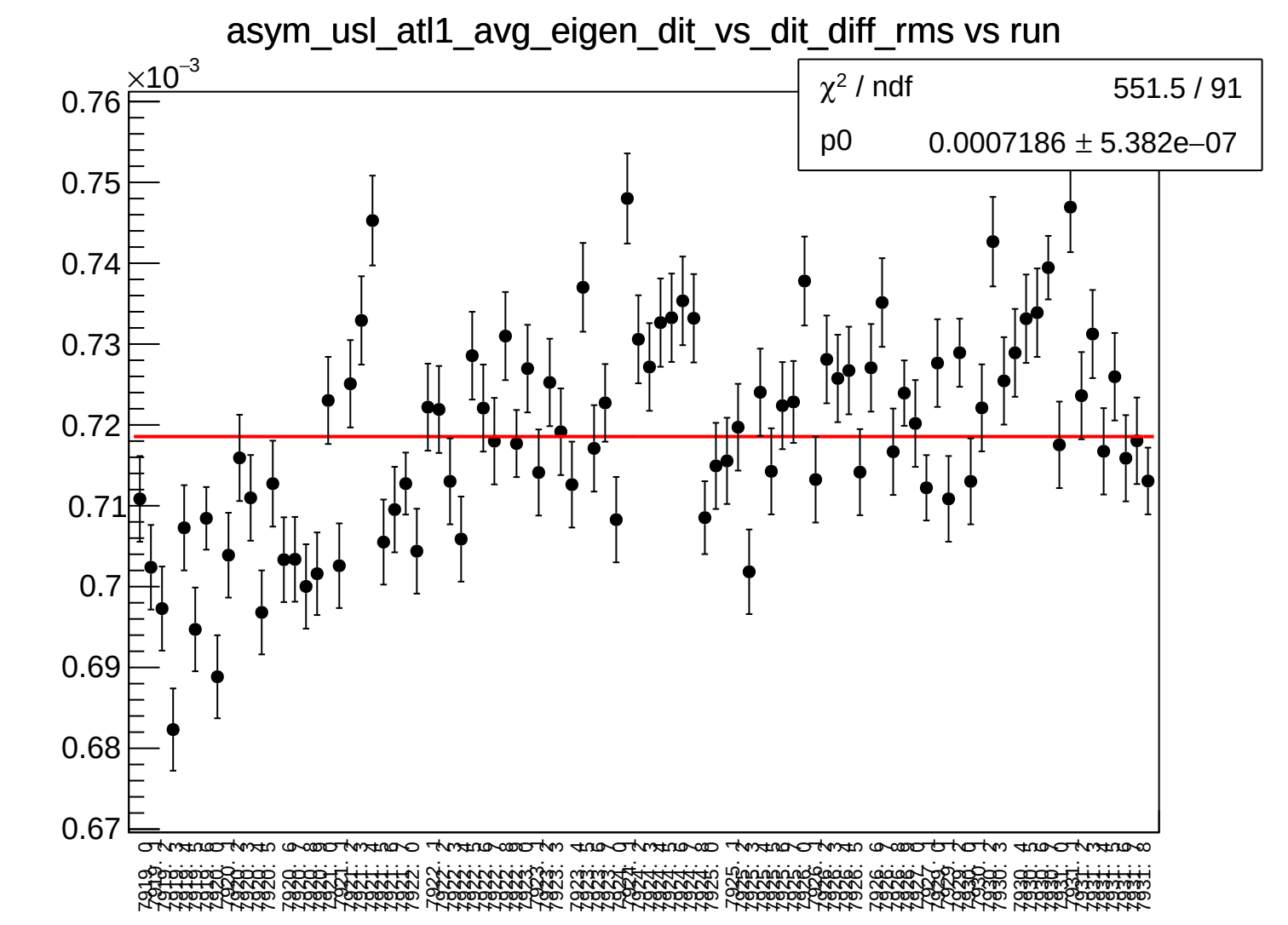

asym_usl_atl1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.678e+05 / 91
p0 63.36 ± 0.04986
120
100
80
60
40
20

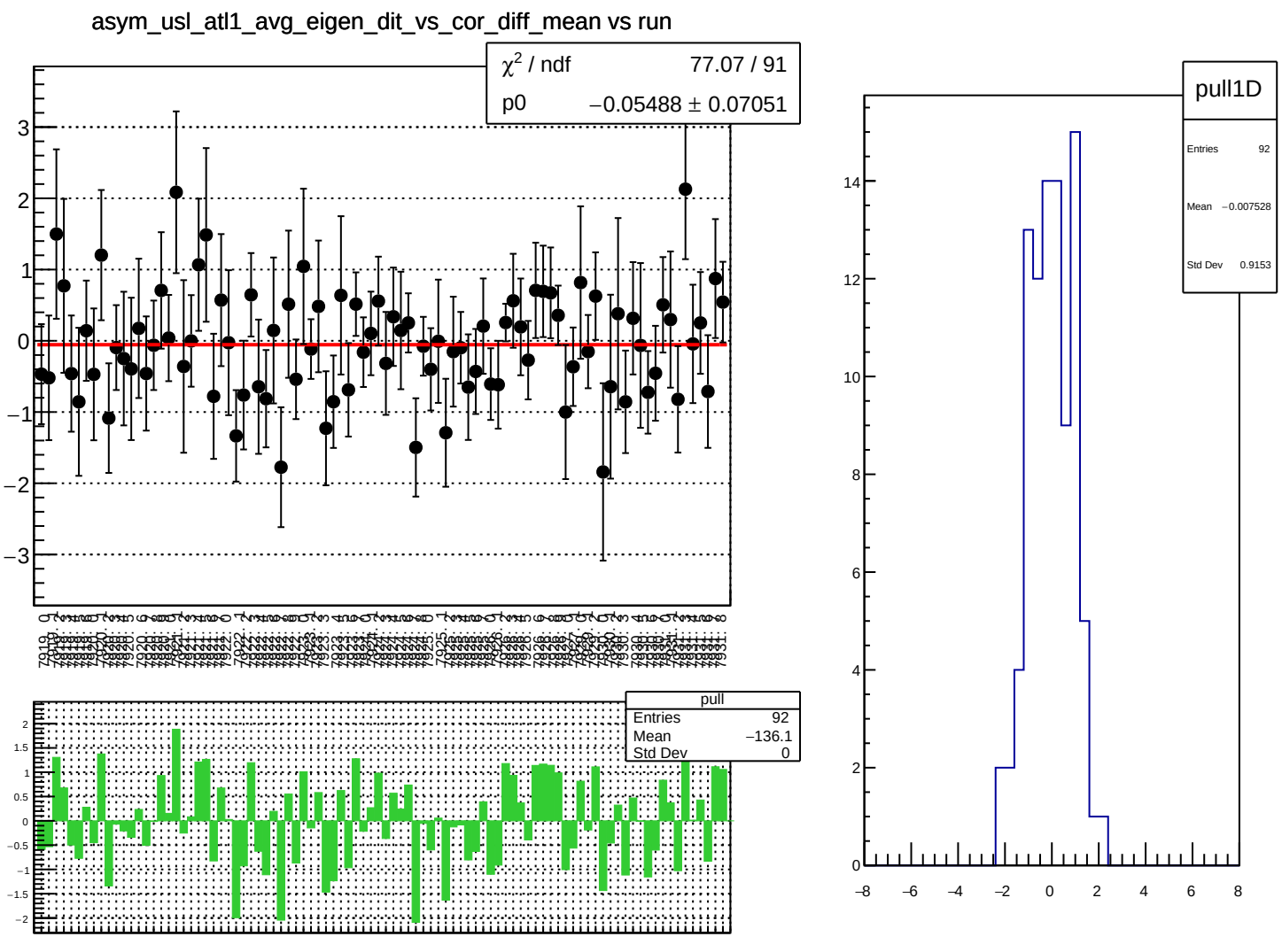

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.07 / 91
p0 −0.05488 ± 0.07051
pull
Entries 92
Mean −136.1
Std Dev 0
pull1D
Entries 92
Mean −0.007528
Std Dev 0.9153

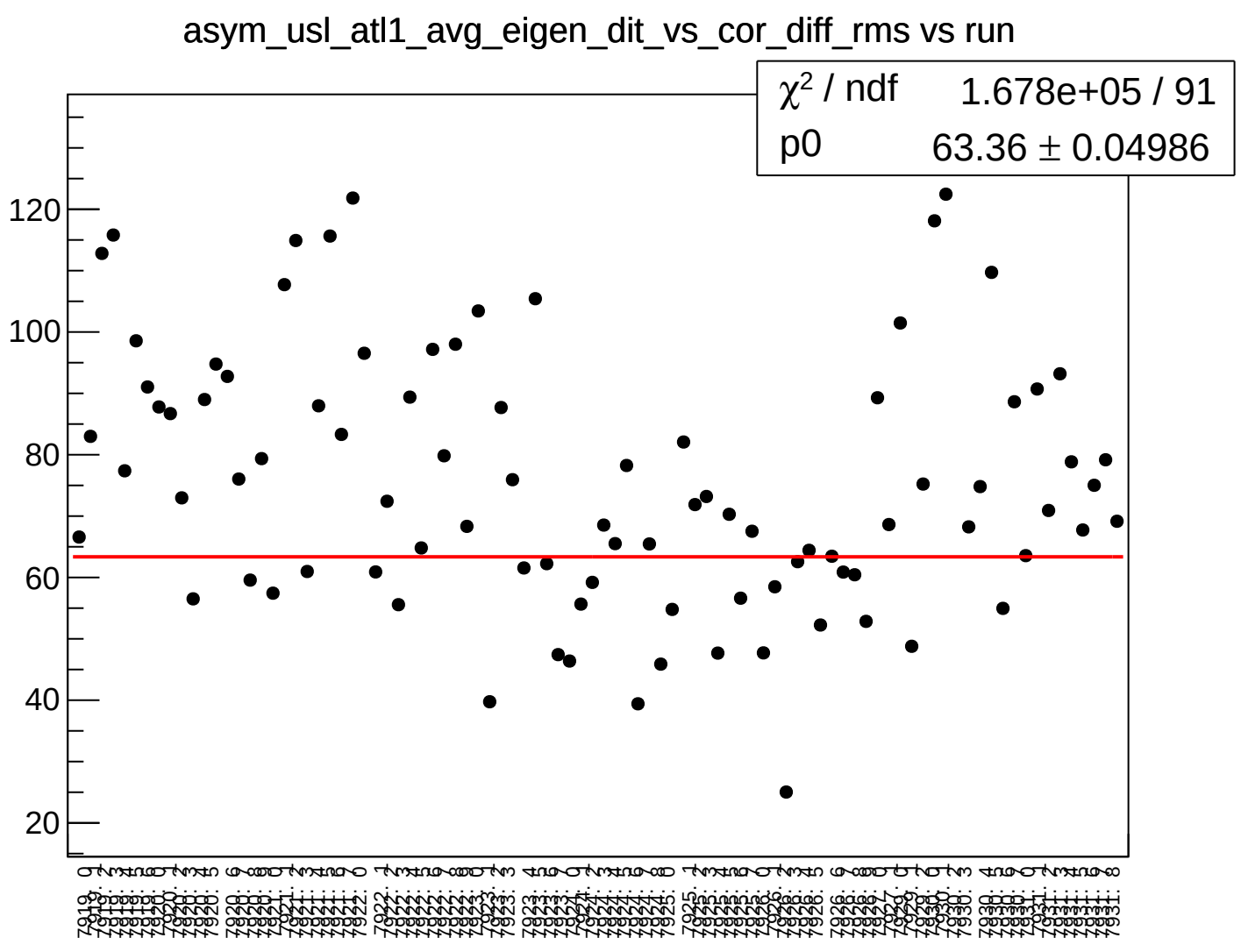

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.678e+05 / 91
p0 63.36 ± 0.04986
120
100
80
60
40
20

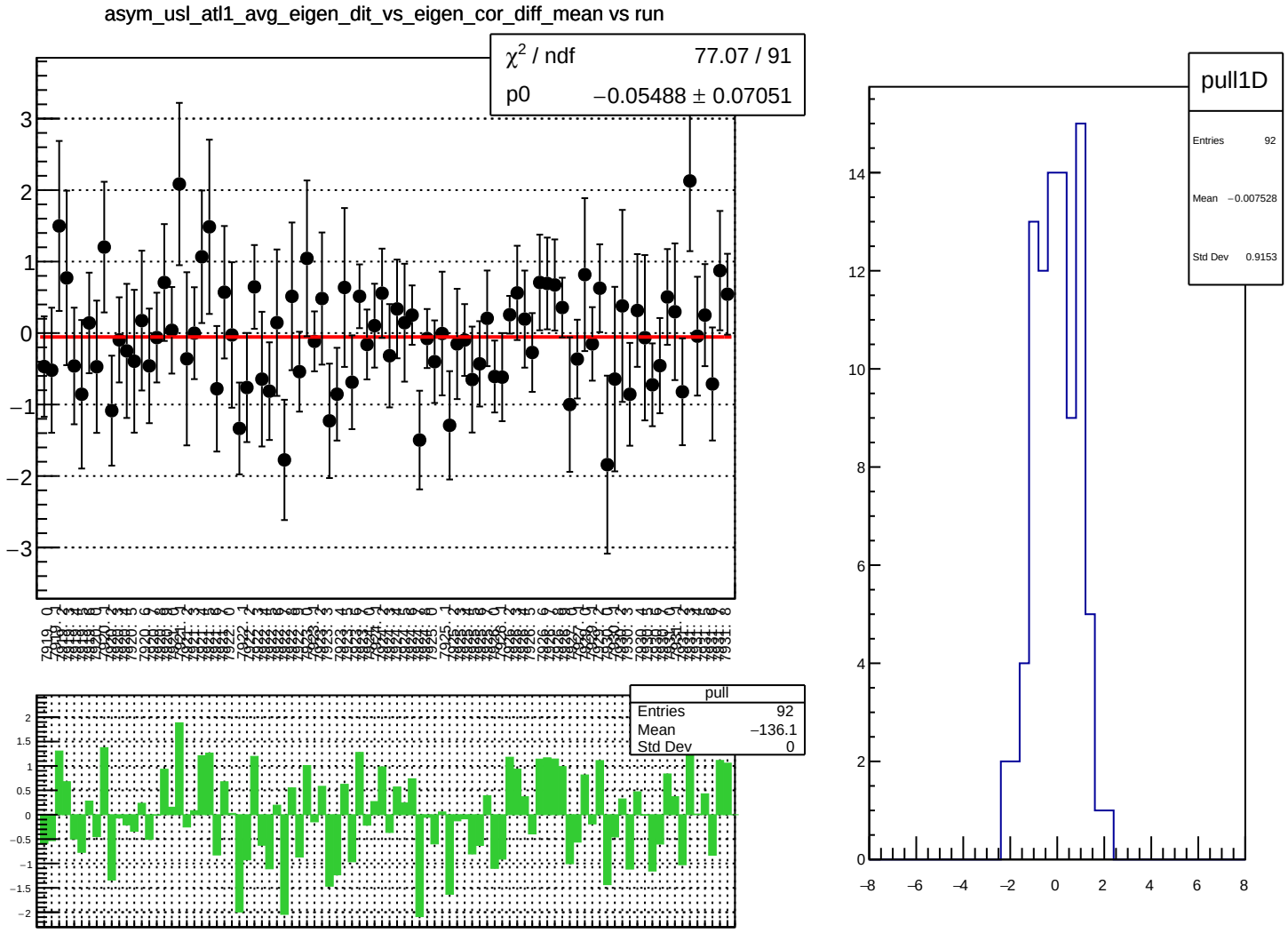

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 80.33 / 91
p0 −2.314e−07 ± 7.612e−07
0.02
0.01
0
−0.01
−0.02
pull
Entries 92
Mean −3845
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

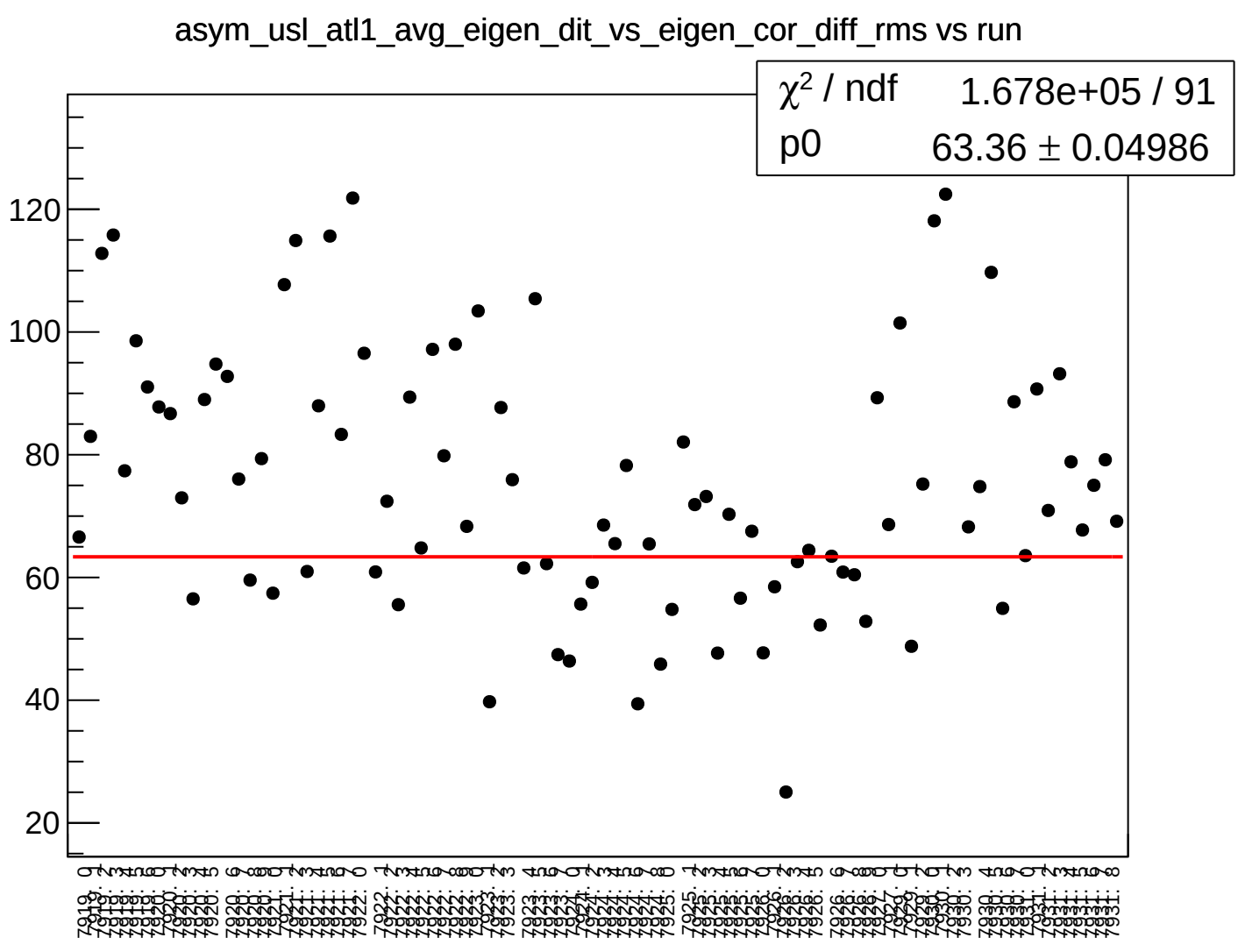

pull1D
Entries 92
Mean −0.00166
Std Dev 0.9344
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

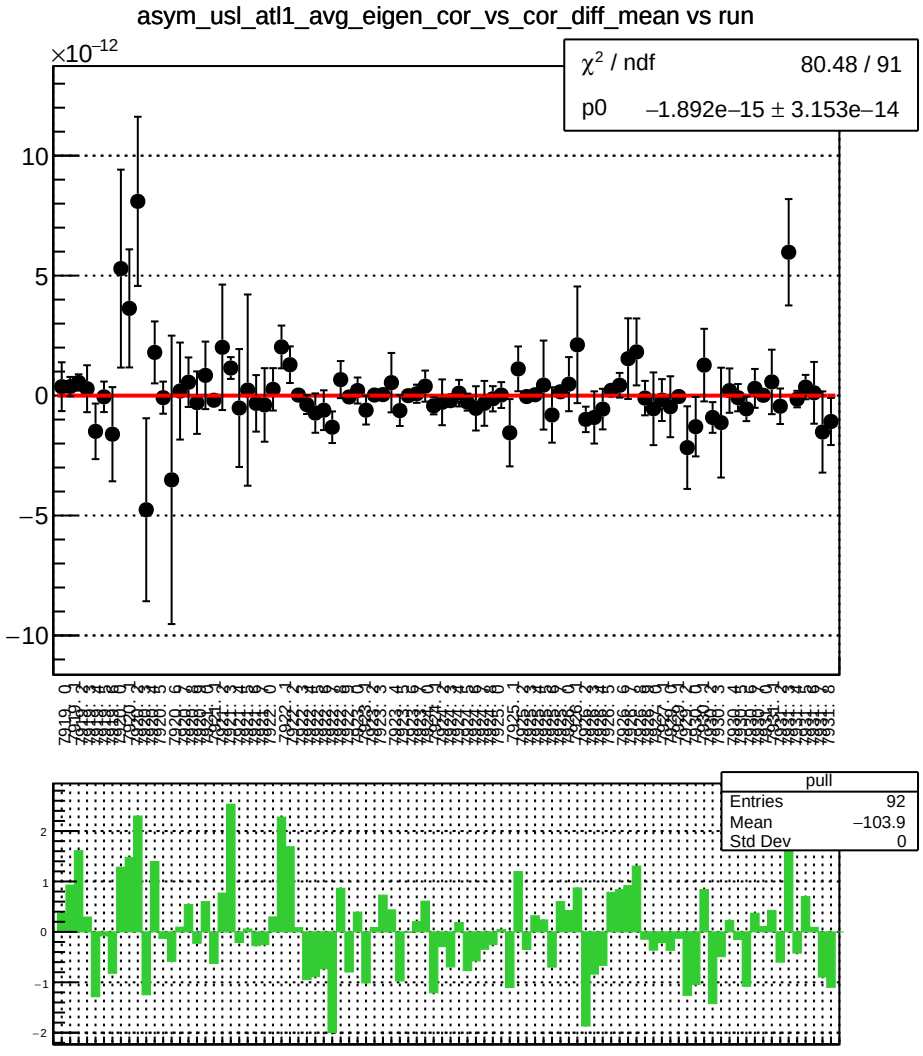

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 551.5 / 91
p0 0.0007186 ± 5.382e−07
0.76
0.75
0.74
0.73
0.72
0.71
0.7
0.69
0.68
0.67

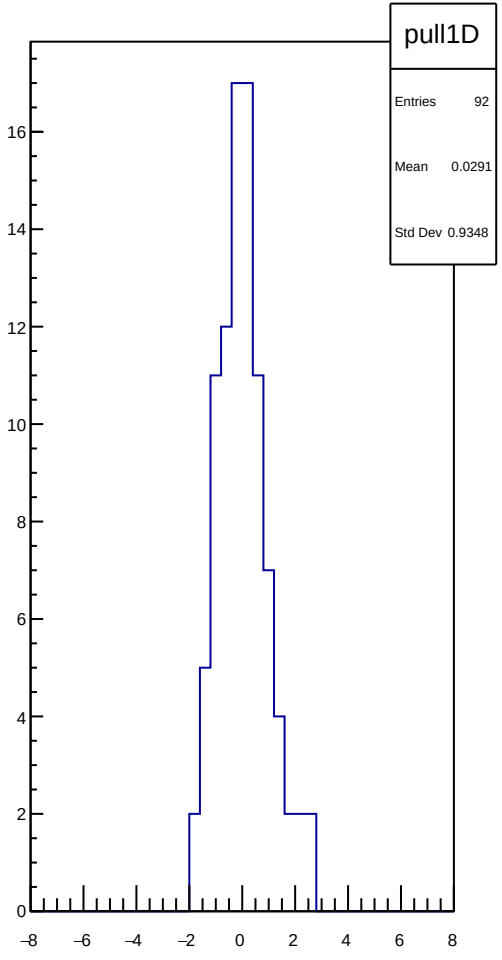

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.07 / 91
p0 −0.05488 ± 0.07051
pull
Entries 92
Mean −136.1
Std Dev 0
pull1D
Entries 92
Mean −0.007528
Std Dev 0.9153

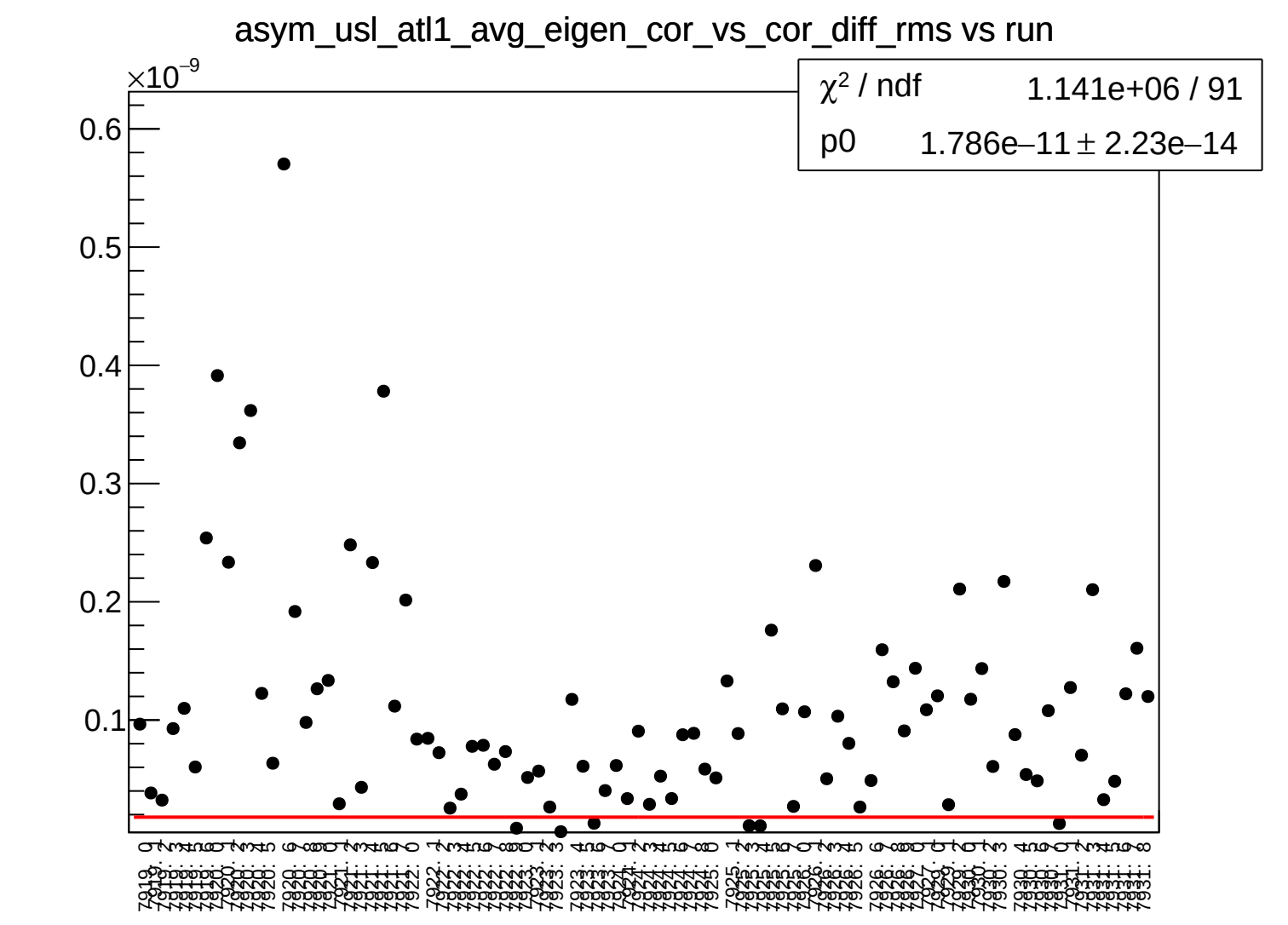

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.678e+05 / 91
p0 63.36 ± 0.04986
120
100
80
60
40
20

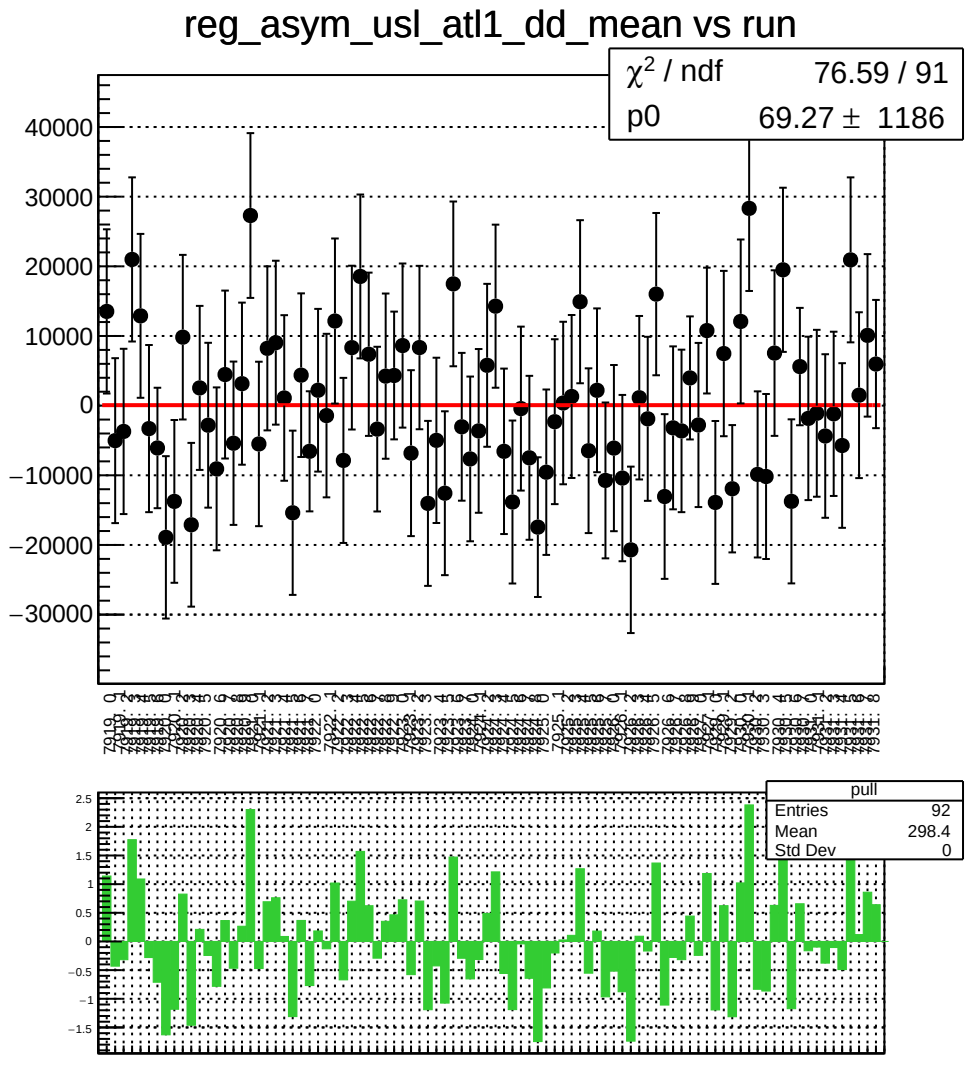

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.07 / 91
p0 −0.05488 ± 0.07051
pull
Entries 92
Mean −136.1
Std Dev 0
pull1D
Entries 92
Mean −0.007528
Std Dev 0.9153

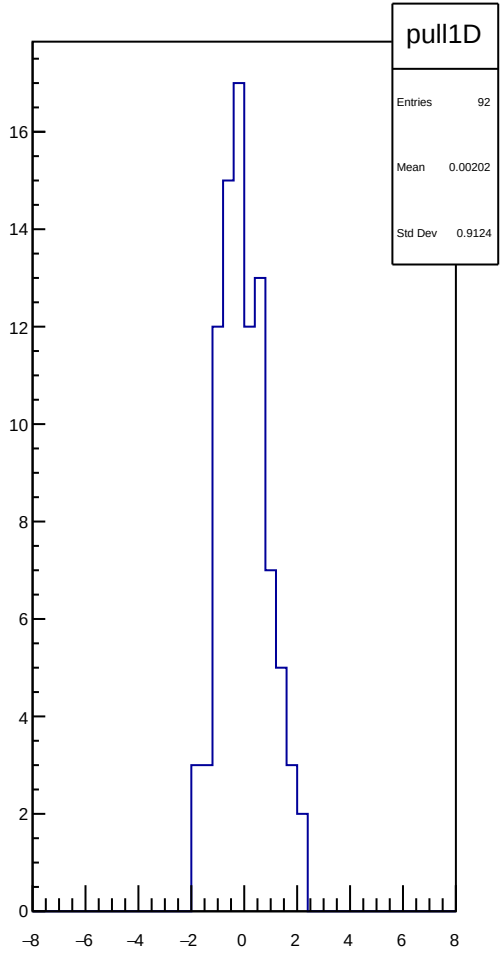

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.678e+05 / 91
p0 63.36 ± 0.04986
120
100
80
60
40
20

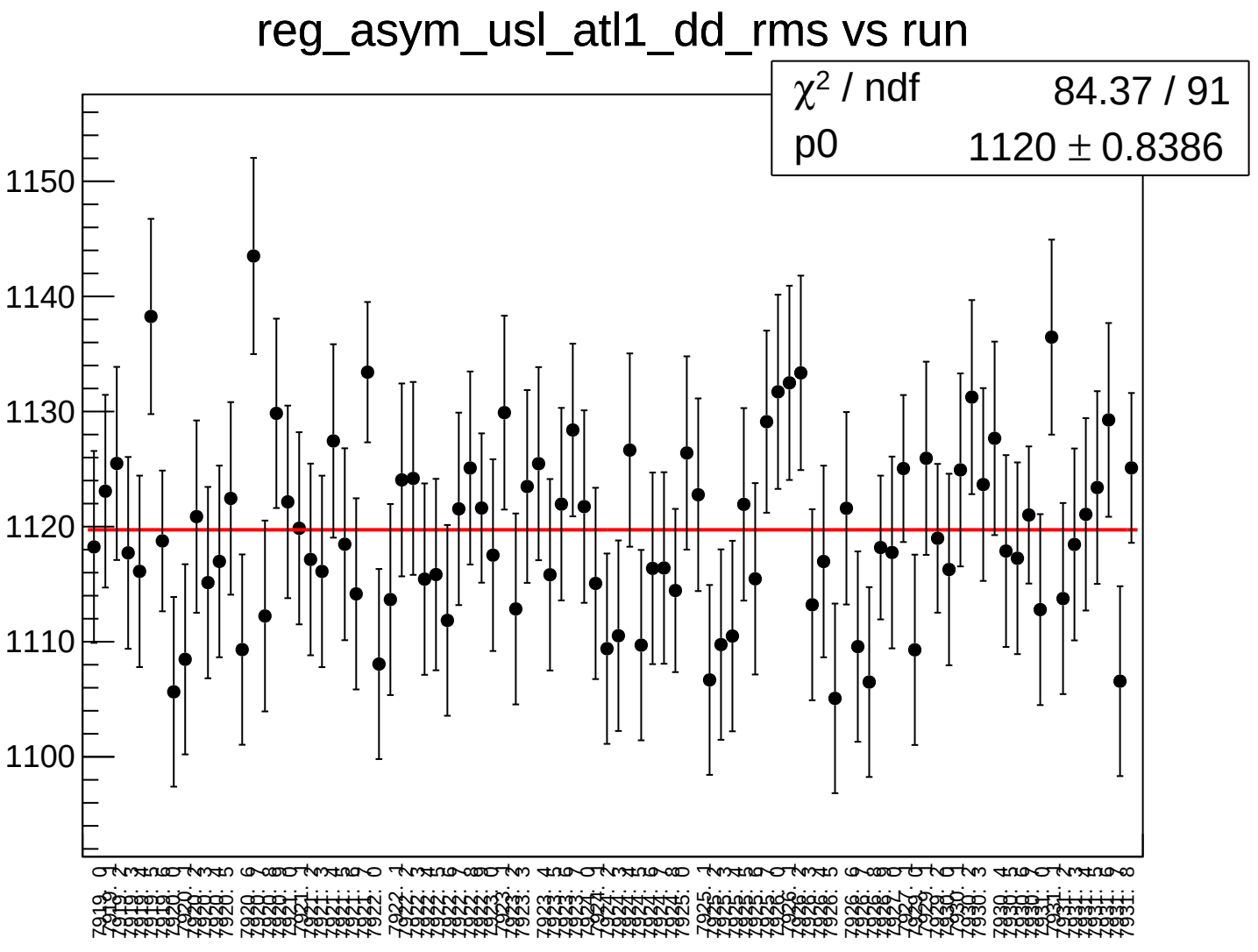

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.48 / 91
p0 −1.892e−15 ± 3.153e−14
pull
Entries 92
Mean −103.9
Std Dev 0

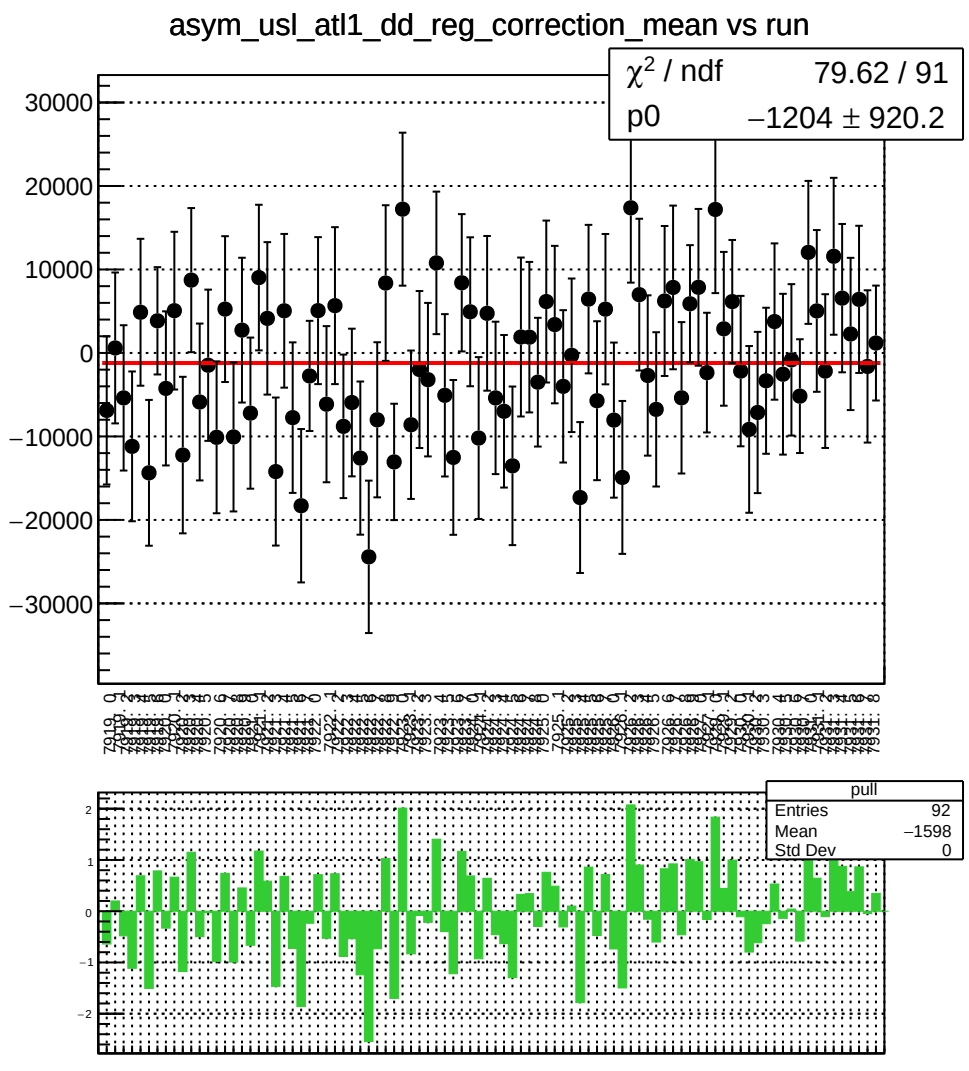

pull1D
Entries 92
Mean 0.0291
Std Dev 0.9348

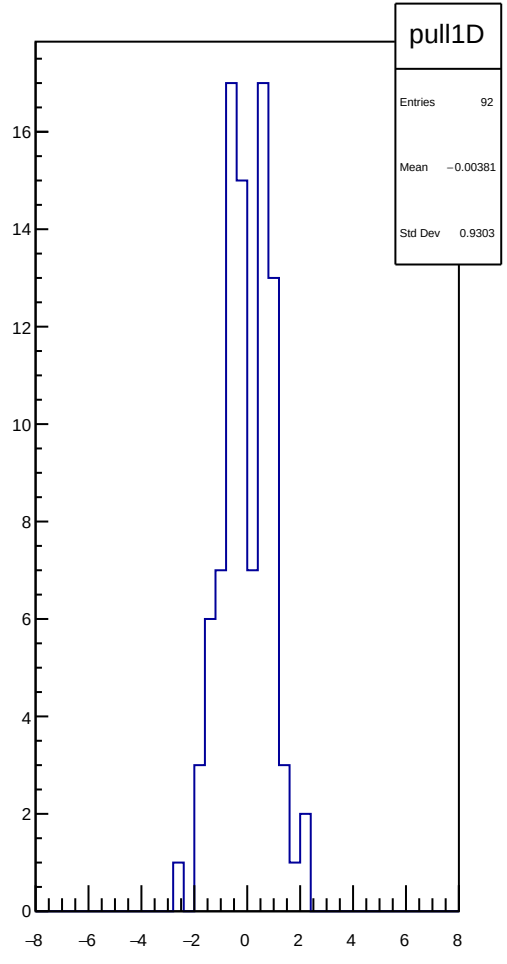

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.141e+06 / 91
p0 1.786e−11 ± 2.23e−14
0.6
0.5
0.4
0.3
0.2
0.1

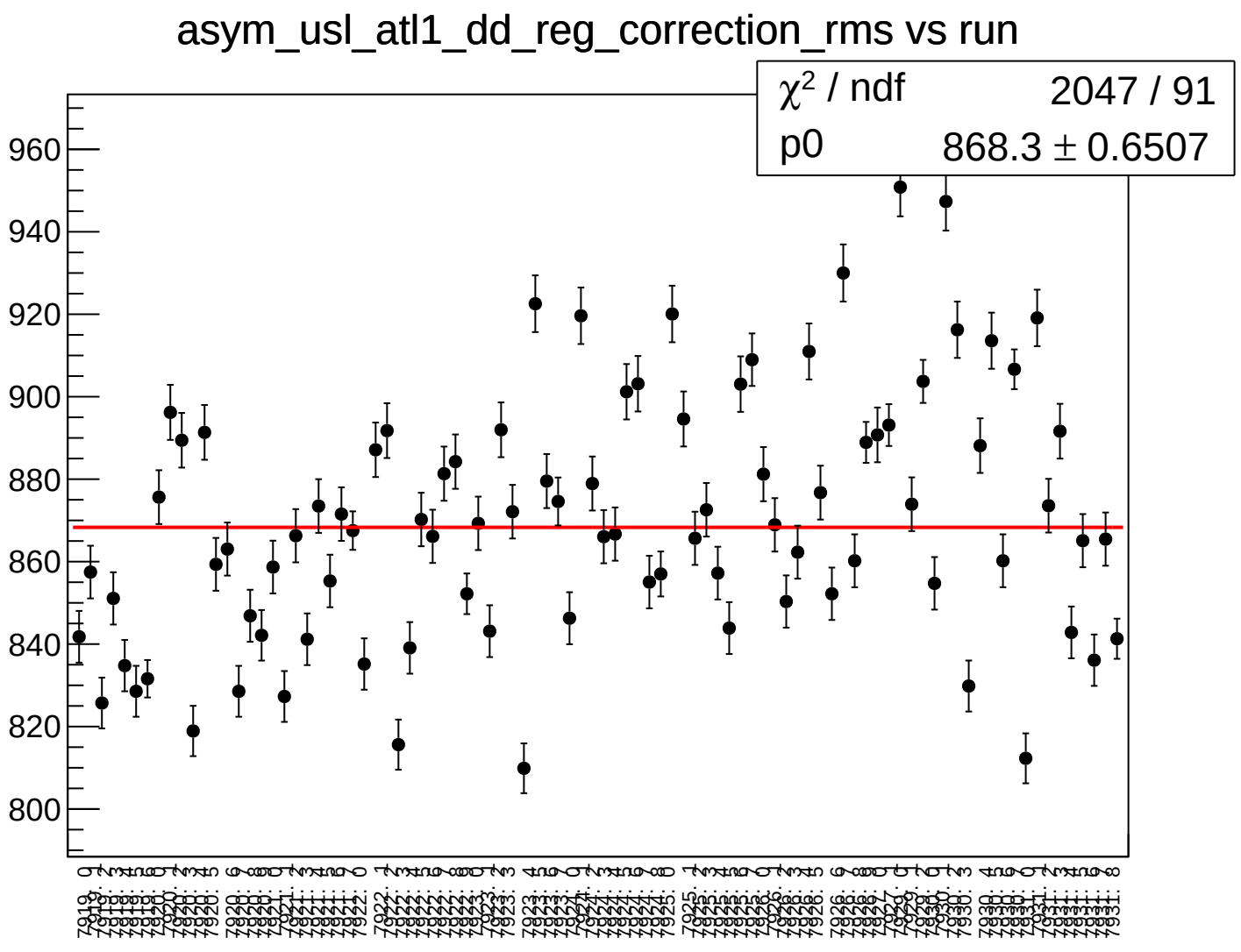

reg_asym_usl_atl1_dd_mean vs run
χ² / ndf 76.59 / 91
p0 69.27 ± 1186
pull
Entries 92
Mean 298.4
Std Dev 0

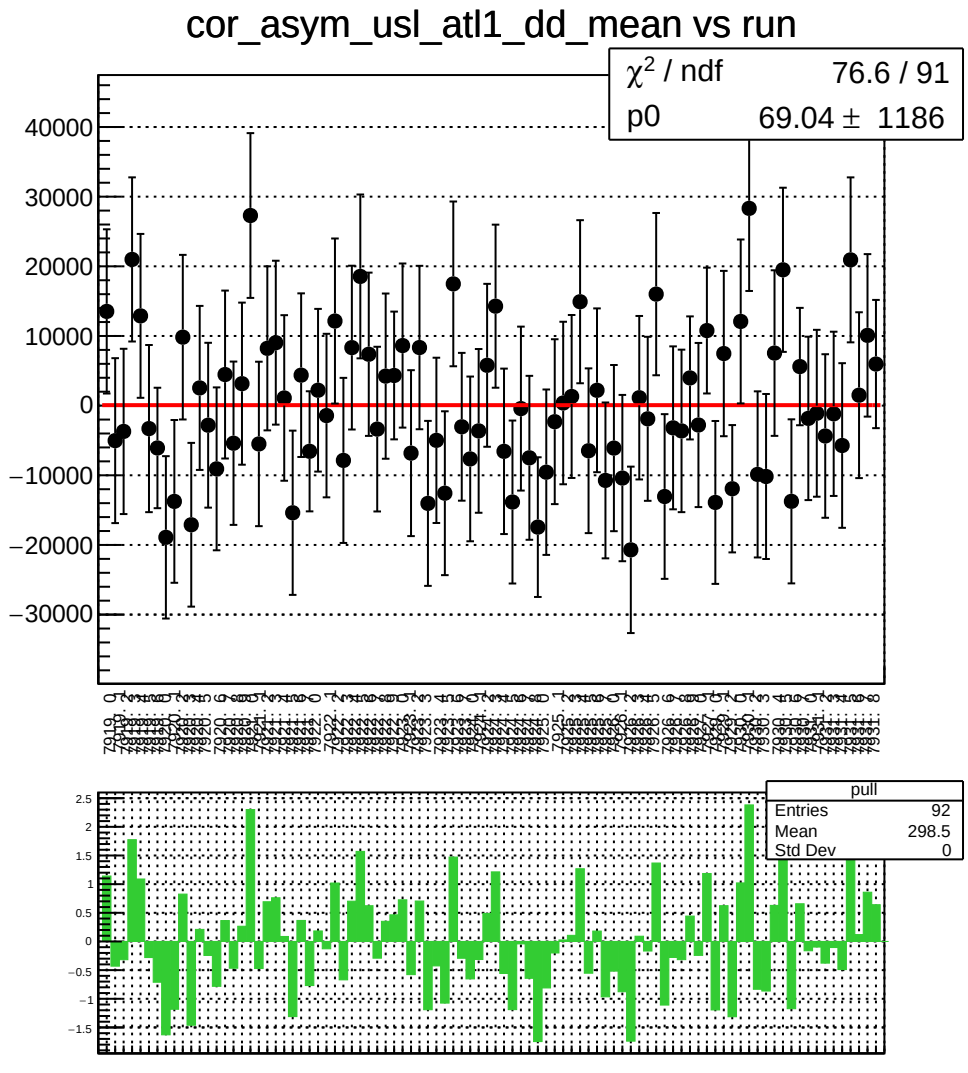

pull1D
Entries 92
Mean 0.00202
Std Dev 0.9124

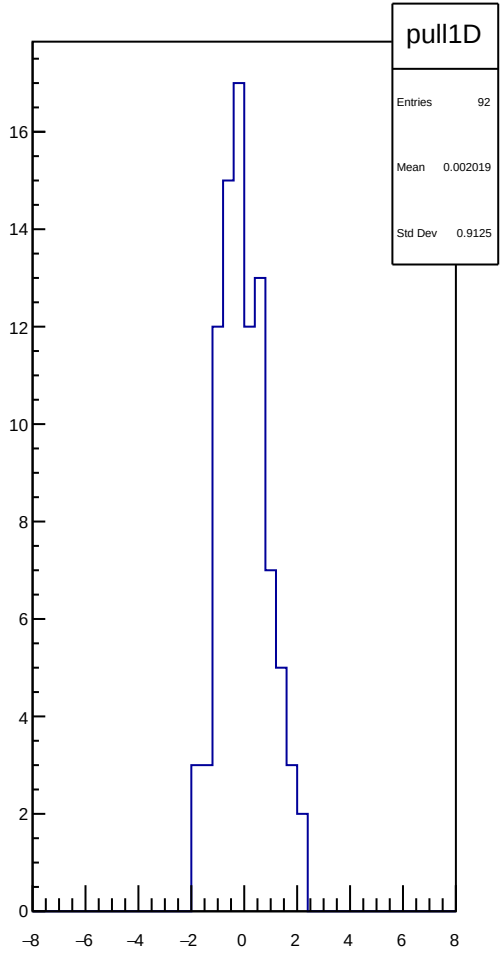

reg_asym_usl_atl1_dd_rms vs run
χ^2 / ndf 84.37 / 91
p0 1120 ± 0.8386
1150
1140
1130
1120
1110
1100

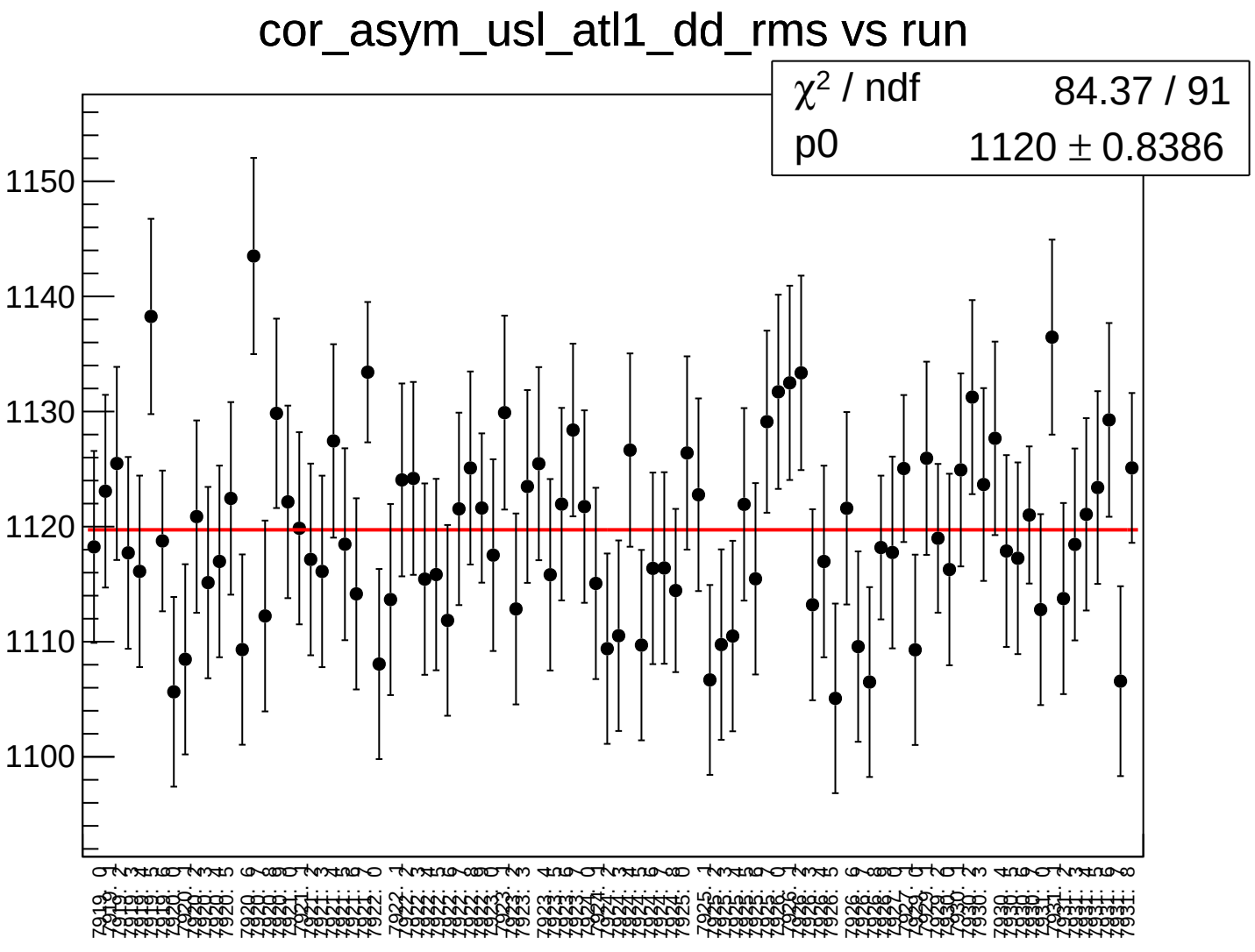

asym_usl_atl1_dd_reg_correction_mean vs run
χ² / ndf 79.62 / 91
p0 −1204 ± 920.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −1598
Std Dev 0
2
1
0
−1
−2

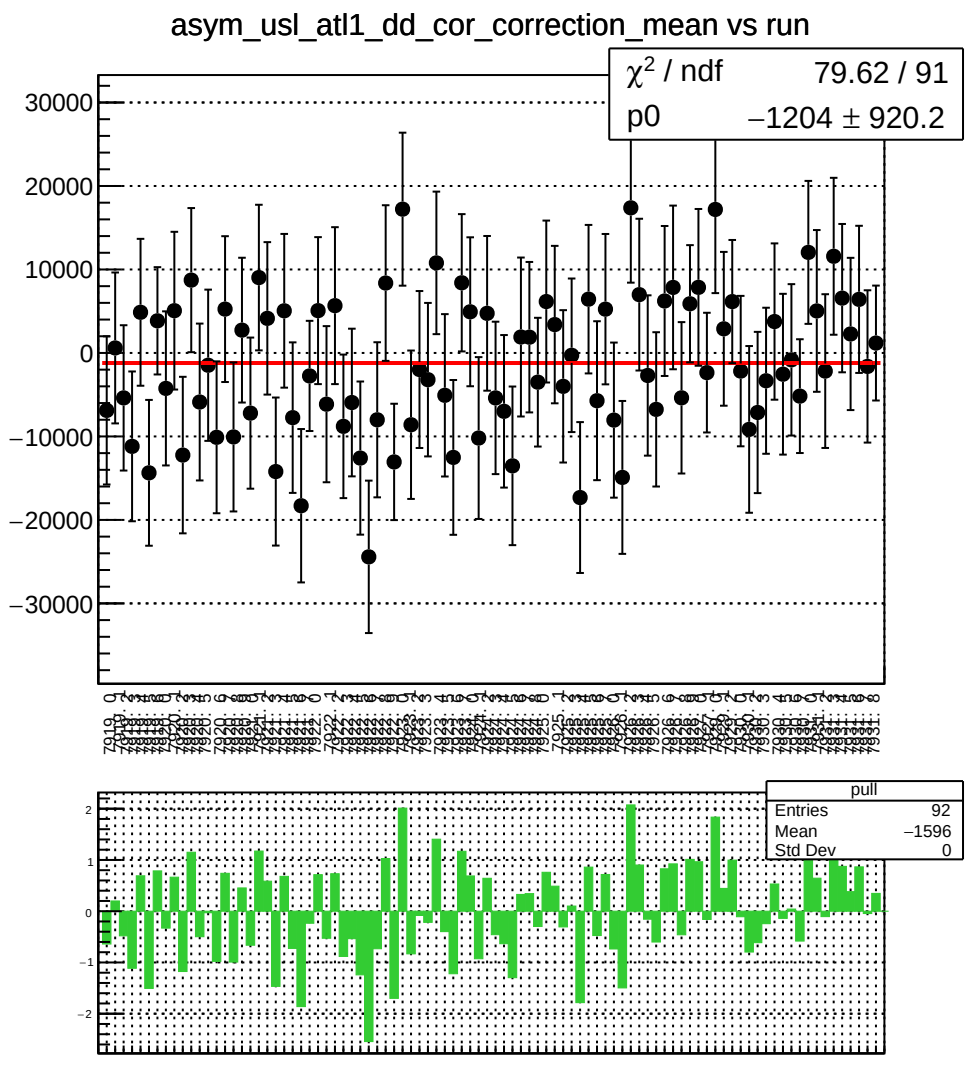

pull1D
Entries 92
Mean −0.00381
Std Dev 0.9303
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

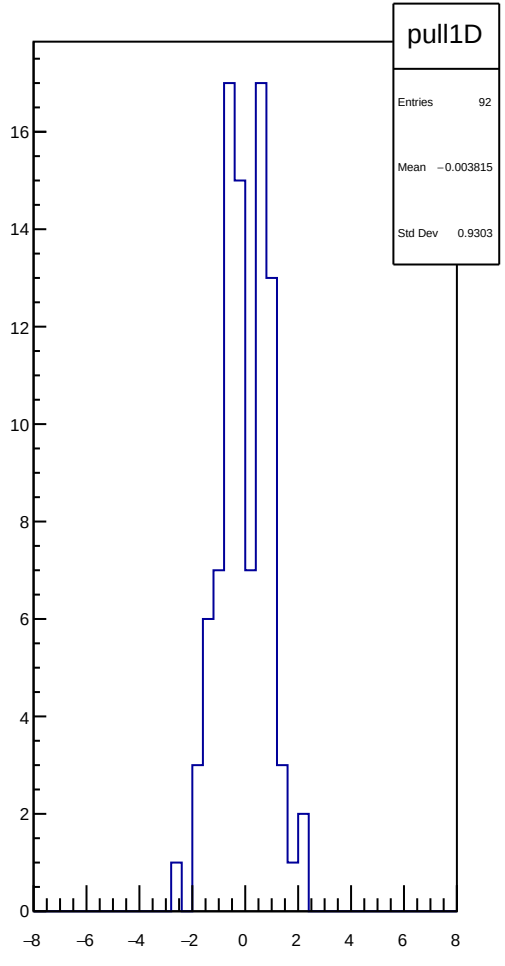

asym_usl_atl1_dd_reg_correction_rms vs run
χ² / ndf 2047 / 91
p0 868.3 ± 0.6507
960
940
920
900
880
860
840
820
800

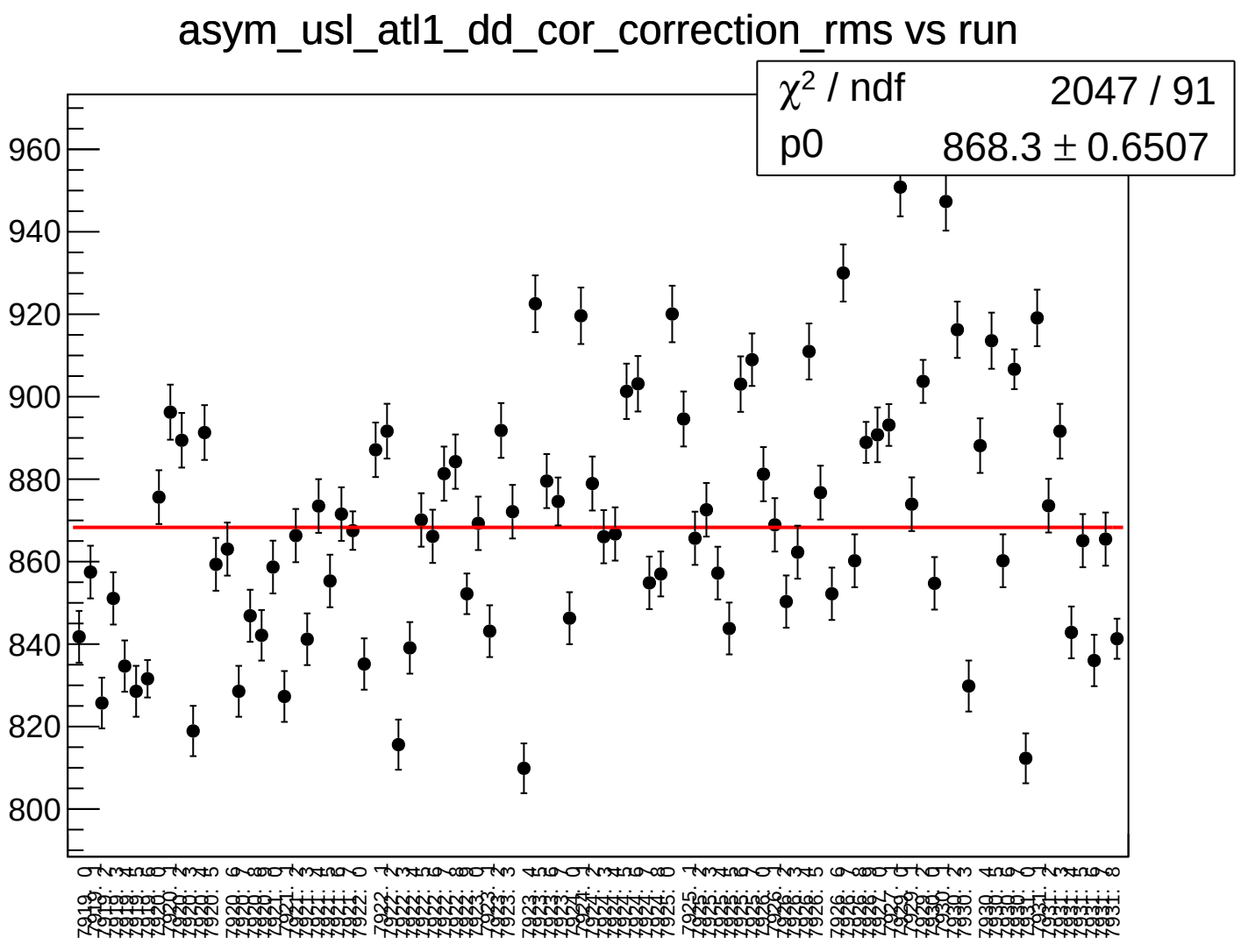

cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 76.6 / 91
p0 69.04 ± 1186
pull
Entries 92
Mean 298.5
Std Dev 0

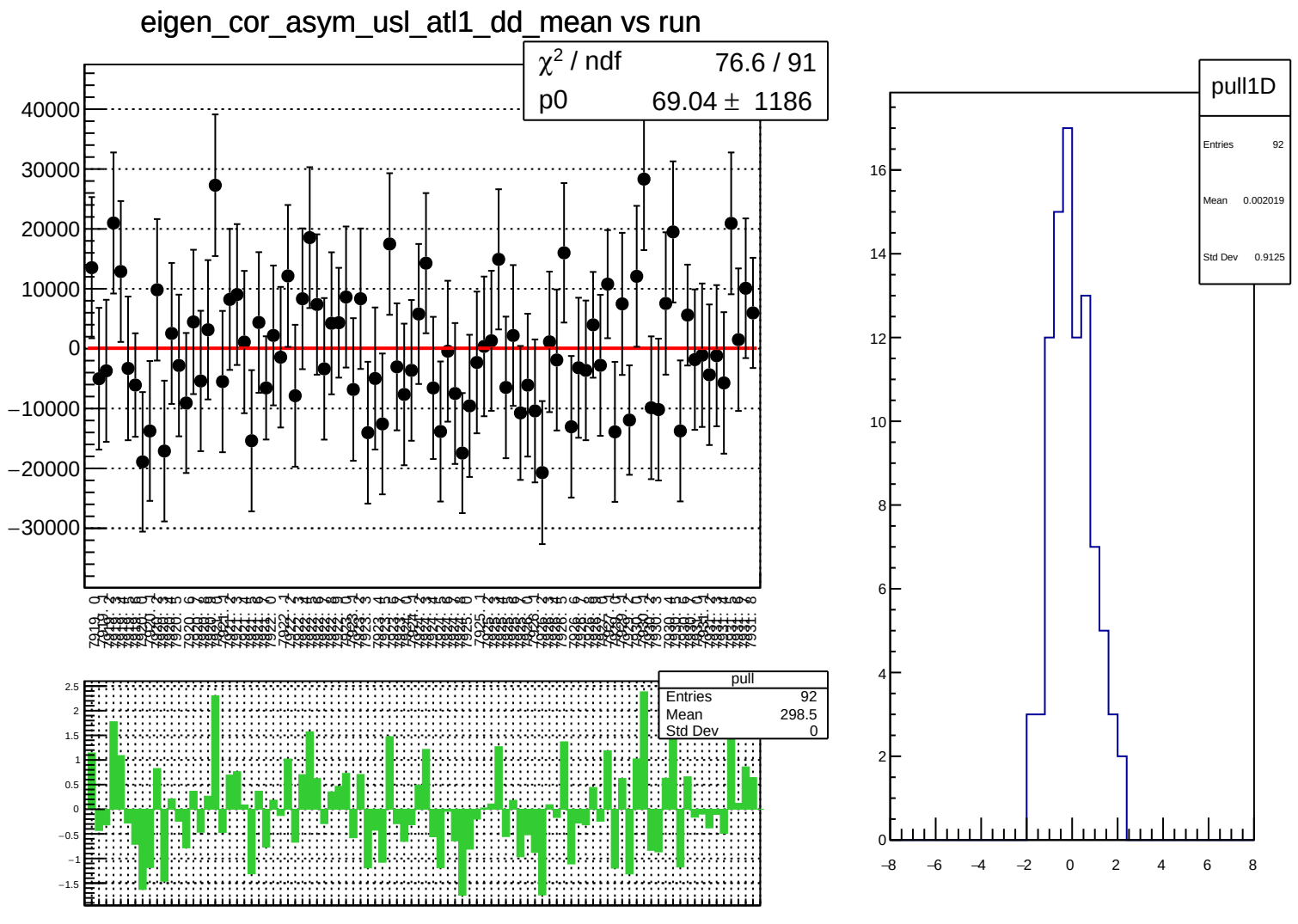

pull1D
Entries 92
Mean 0.002019
Std Dev 0.9125

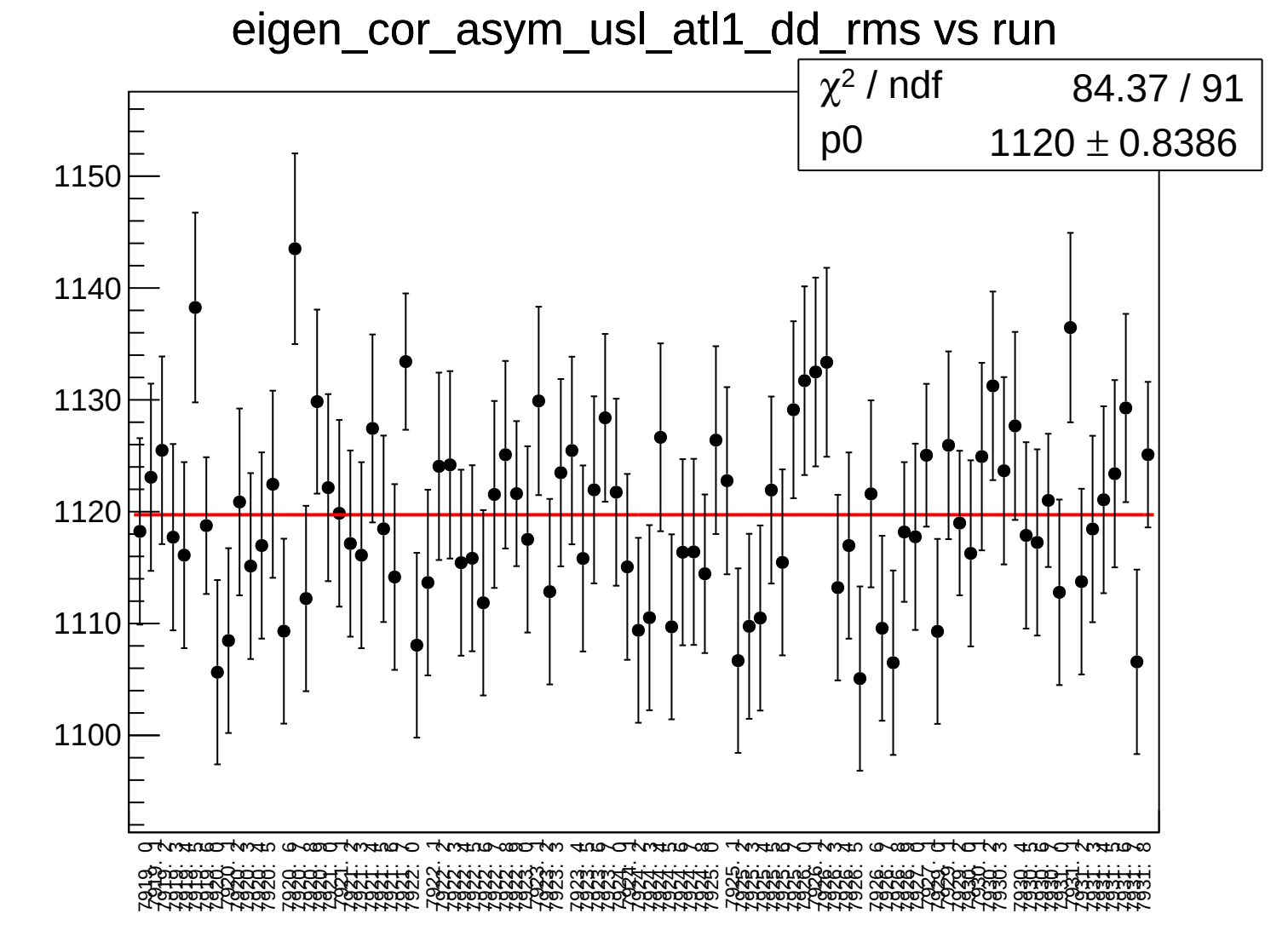

cor_asym_usl_atl1_dd_rms vs run
χ^2 / ndf 84.37 / 91
p0 1120 ± 0.8386
1150
1140
1130
1120
1110
1100

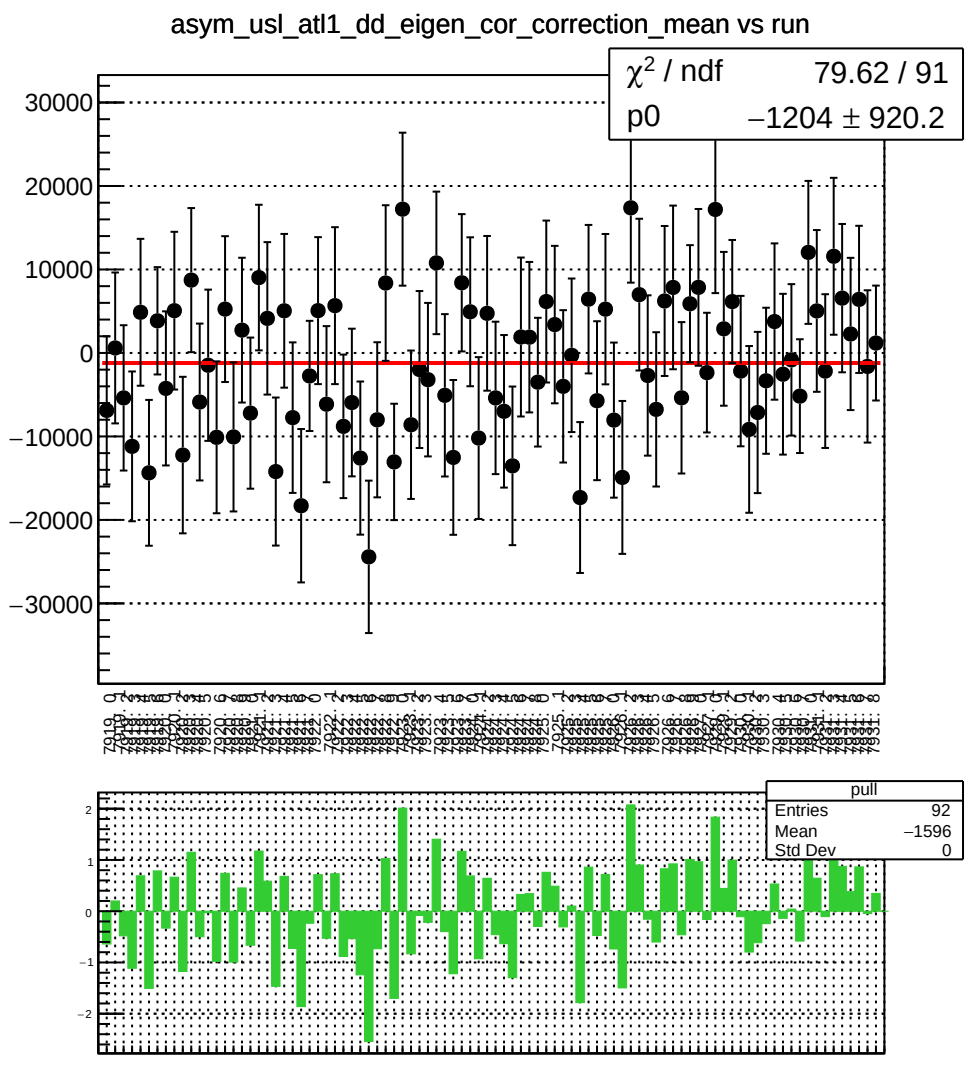

asym_usl_atl1_dd_cor_correction_mean vs run
χ² / ndf 79.62 / 91
p0 −1204 ± 920.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −1596
Std Dev 0
2
1
0
−1
−2

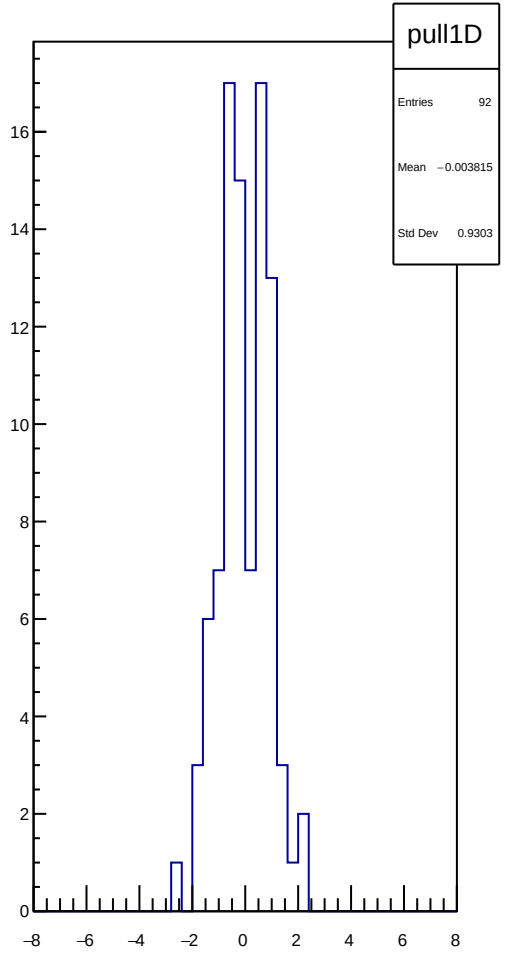

pull1D
Entries 92
Mean −0.003815
Std Dev 0.9303
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

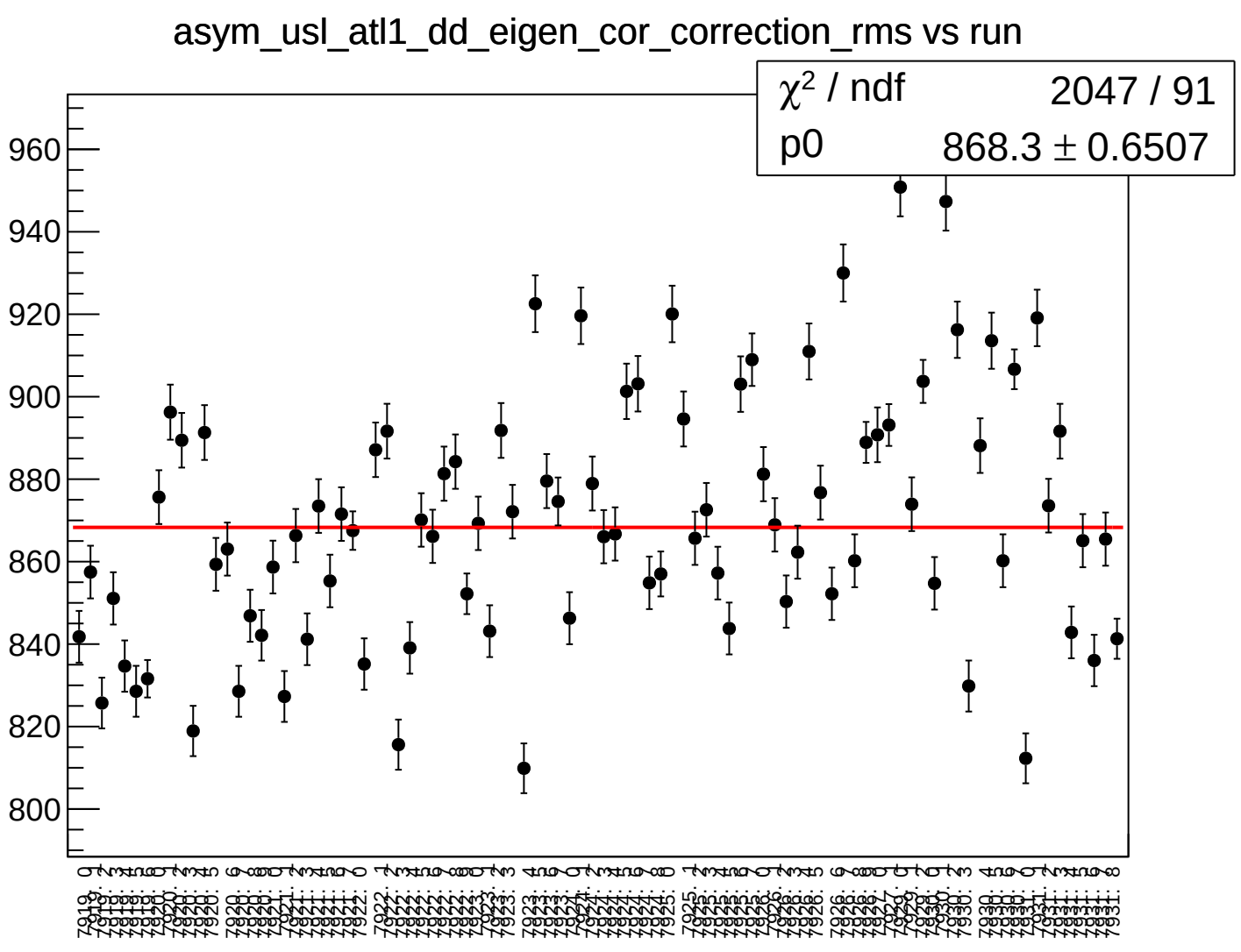

asym_usl_atl1_dd_cor_correction_rms vs run
χ² / ndf 2047 / 91
p0 868.3 ± 0.6507
960
940
920
900
880
860
840
820
800

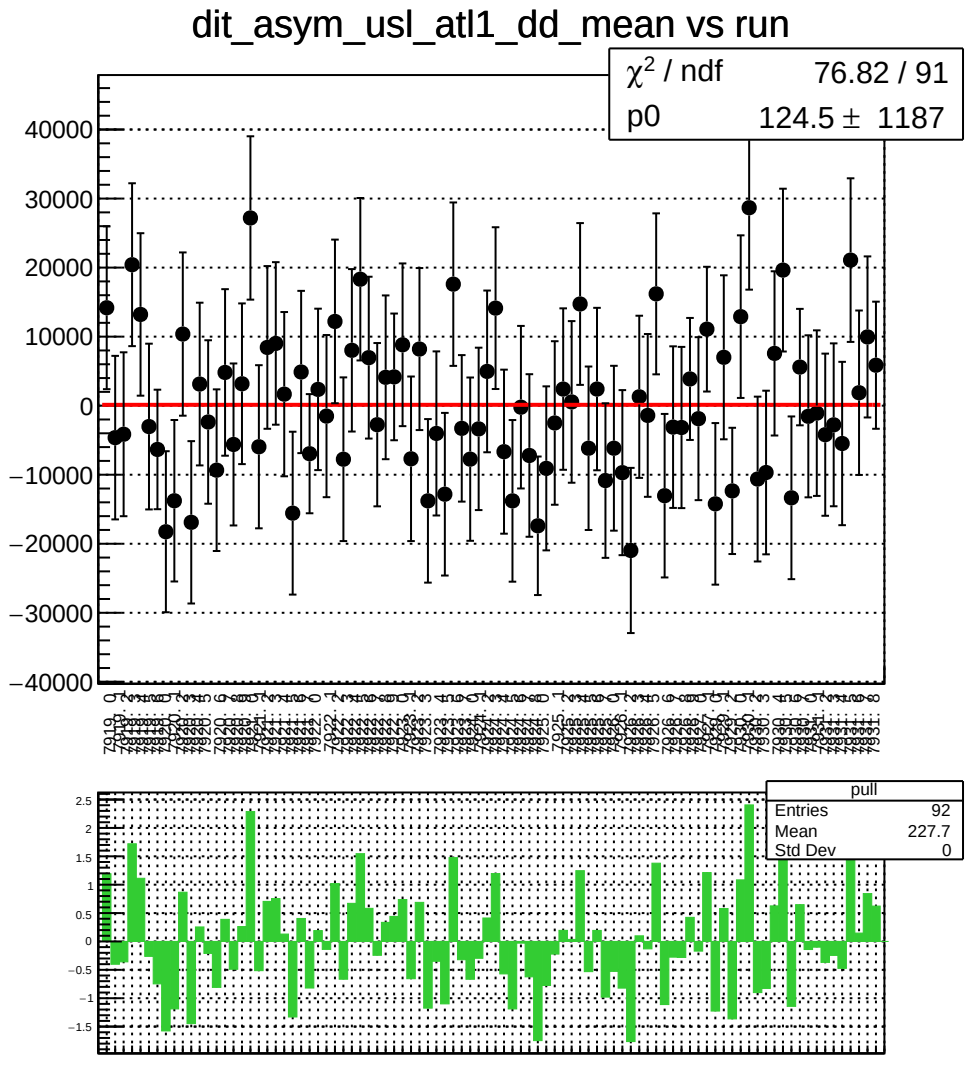

eigen_cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 76.6 / 91
p0 69.04 ± 1186
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean 298.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 92
Mean 0.002019
Std Dev 0.9125
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

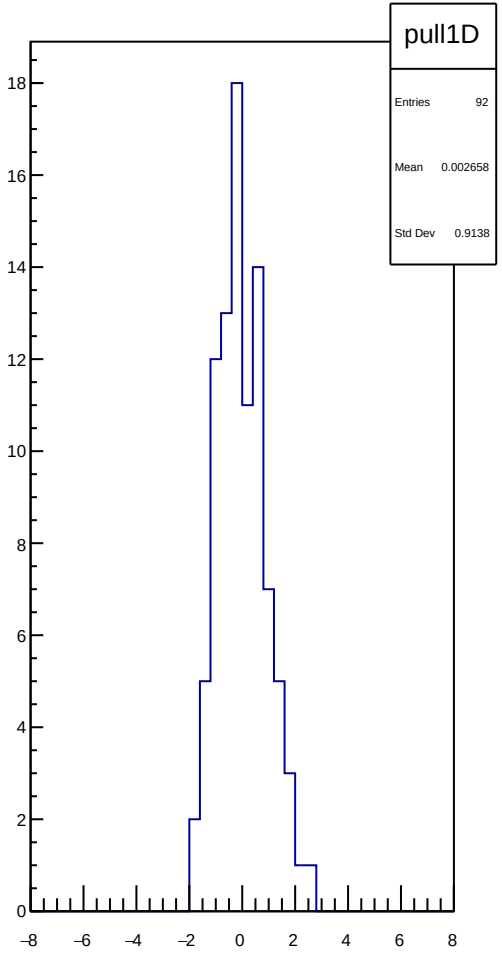

eigen_cor_asym_usl_atl1_dd_rms vs run
χ^2 / ndf 84.37 / 91
p0 1120 ± 0.8386
1150
1140
1130
1120
1110
1100

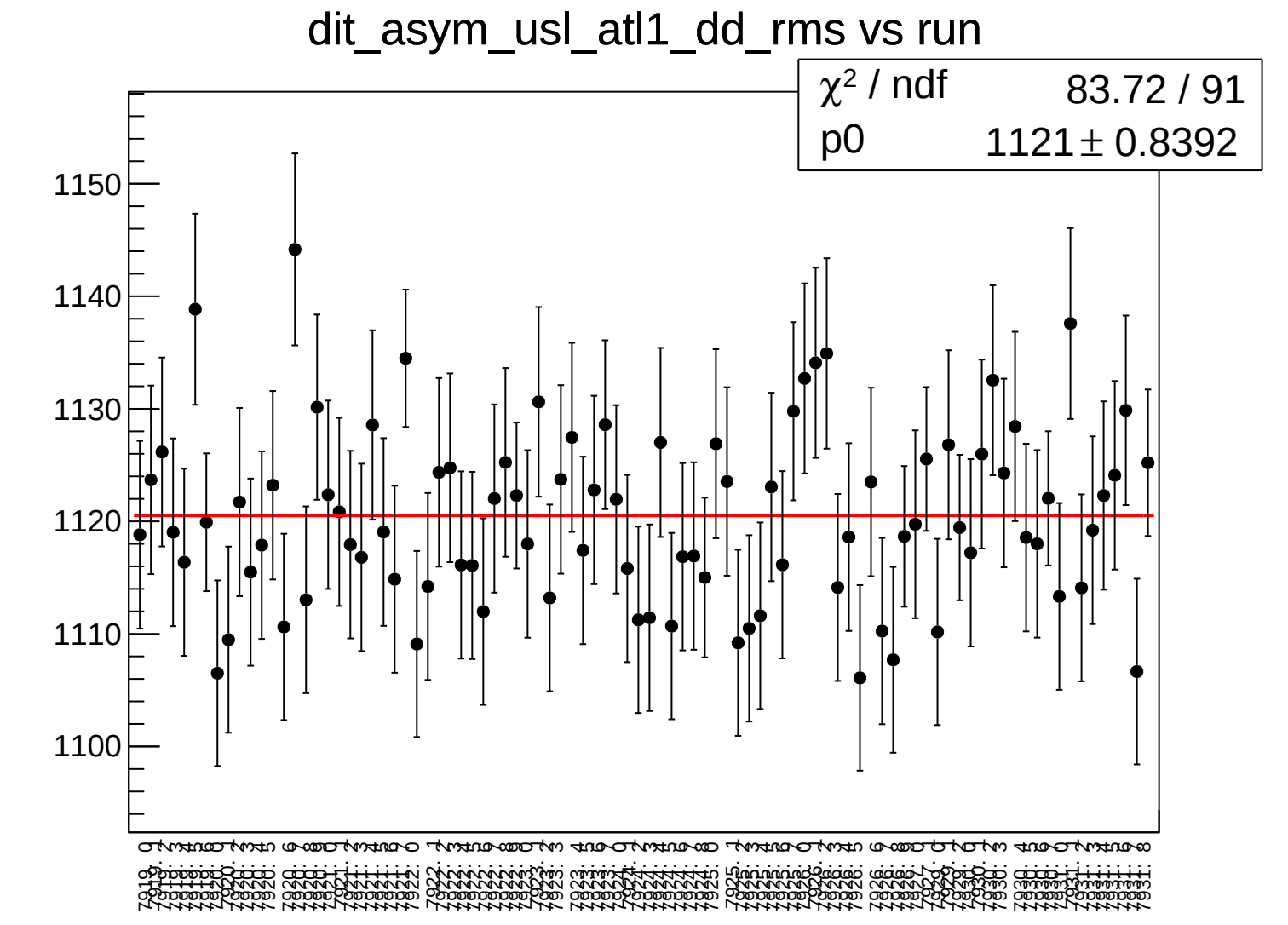

asym_usl_atl1_dd_eigen_cor_correction_mean vs run
χ² / ndf 79.62 / 91
p0 −1204 ± 920.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −1596
Std Dev 0
2
1
0
−1
−2

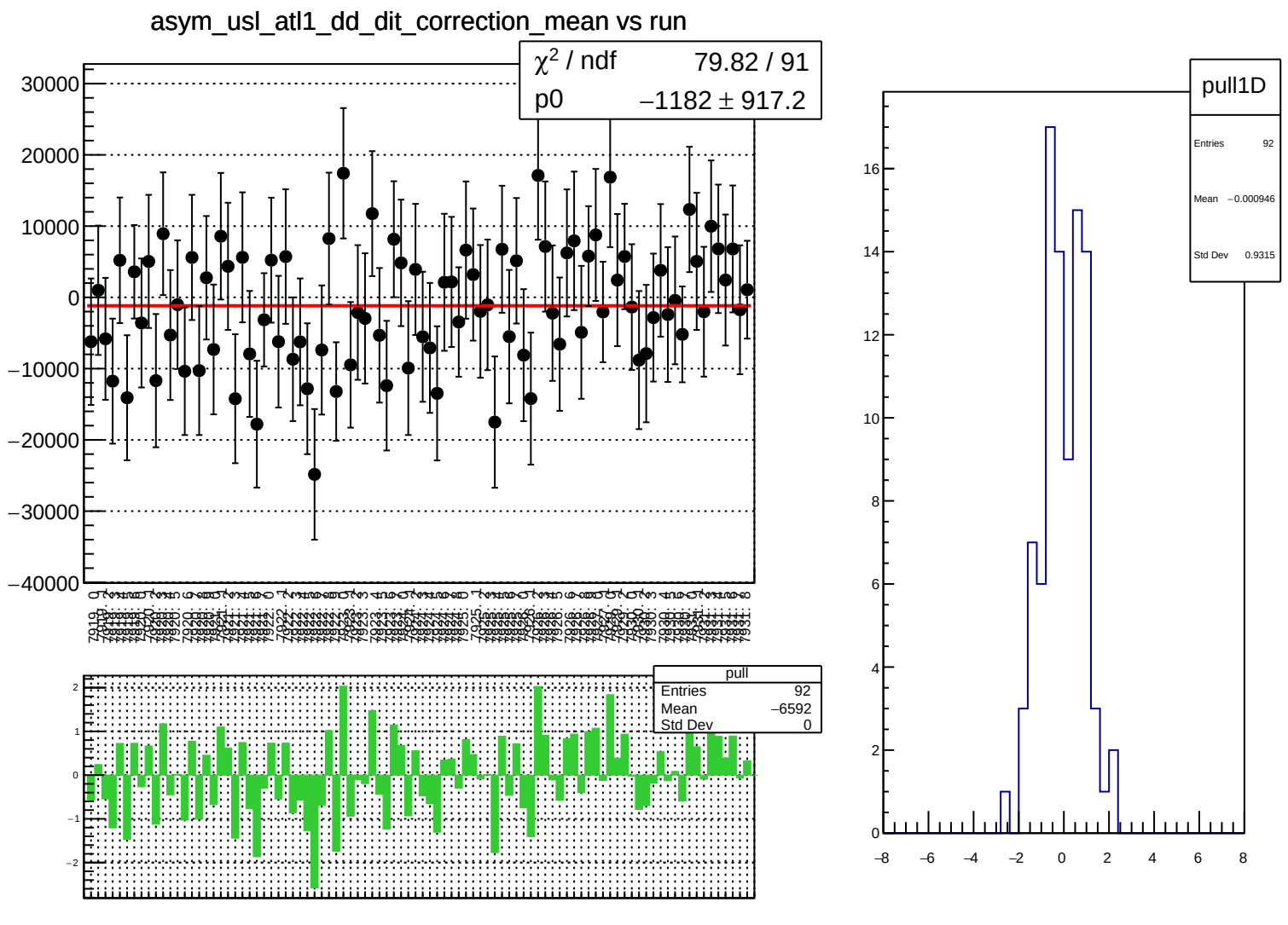

pull1D
Entries 92
Mean −0.003815
Std Dev 0.9303
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

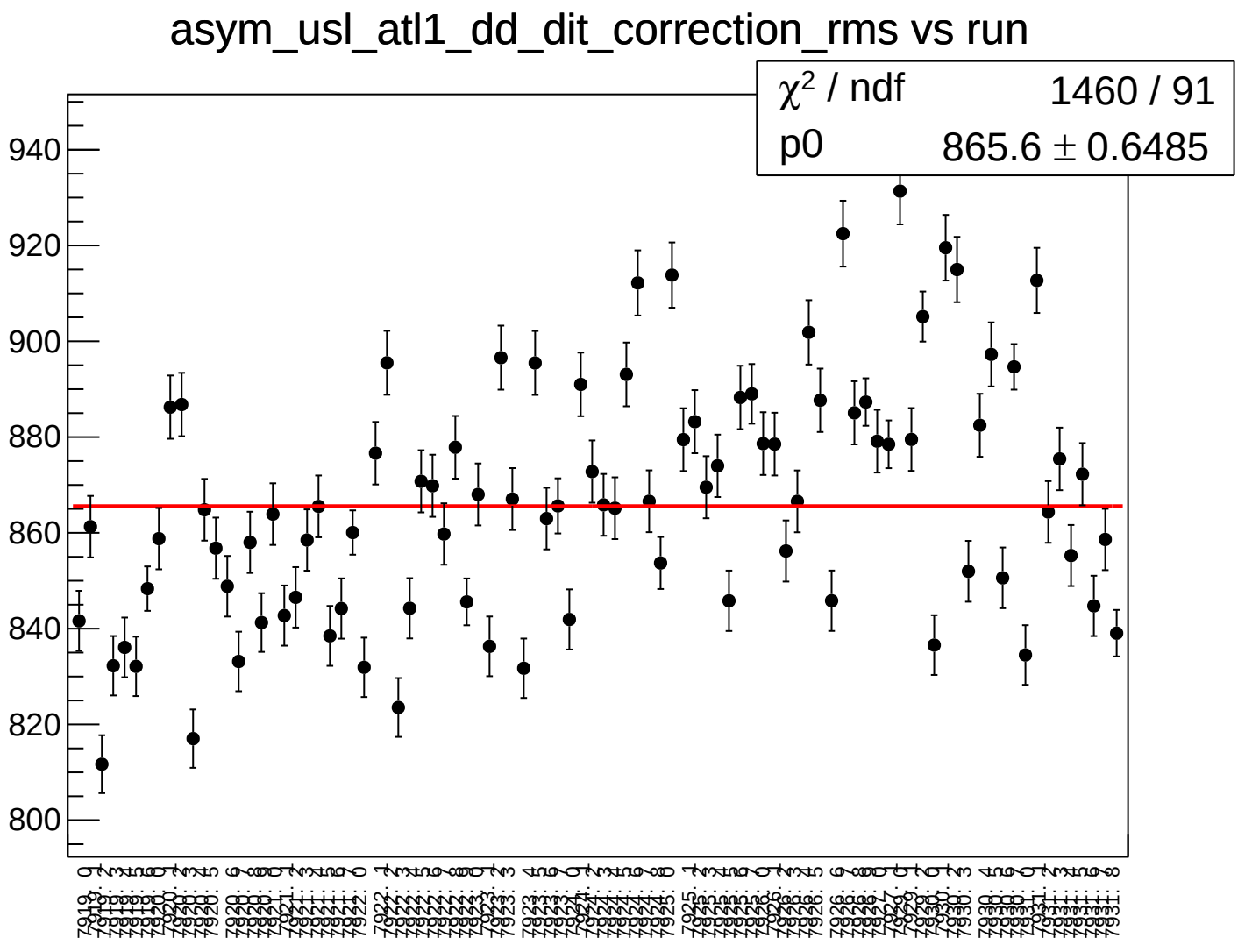

asym_usl_atl1_dd_eigen_cor_correction_rms vs run
χ² / ndf 2047 / 91
p0 868.3 ± 0.6507
960
940
920
900
880
860
840
820
800

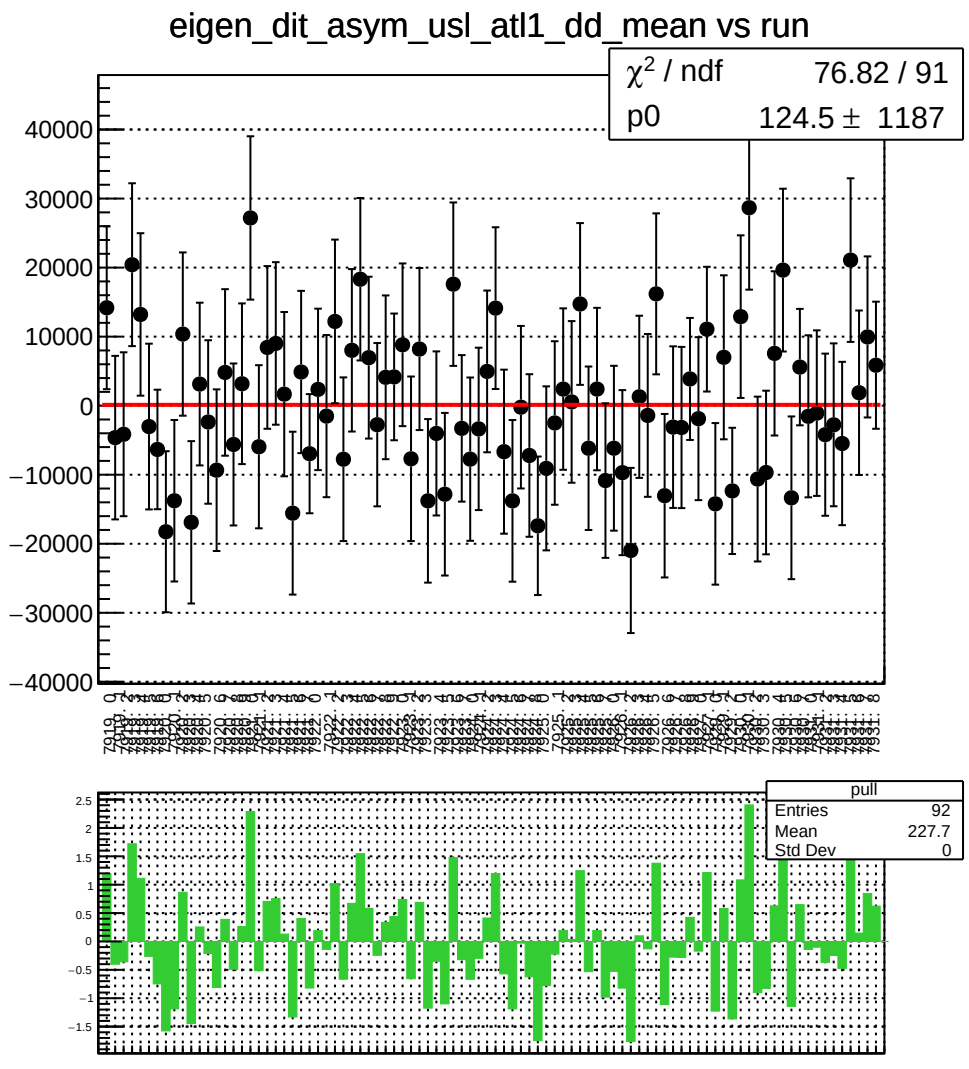

dit_asym_usl_atl1_dd_mean vs run
χ^2 / ndf 76.82 / 91
p0 124.5 ± 1187
pull
Entries 92
Mean 227.7
Std Dev 0

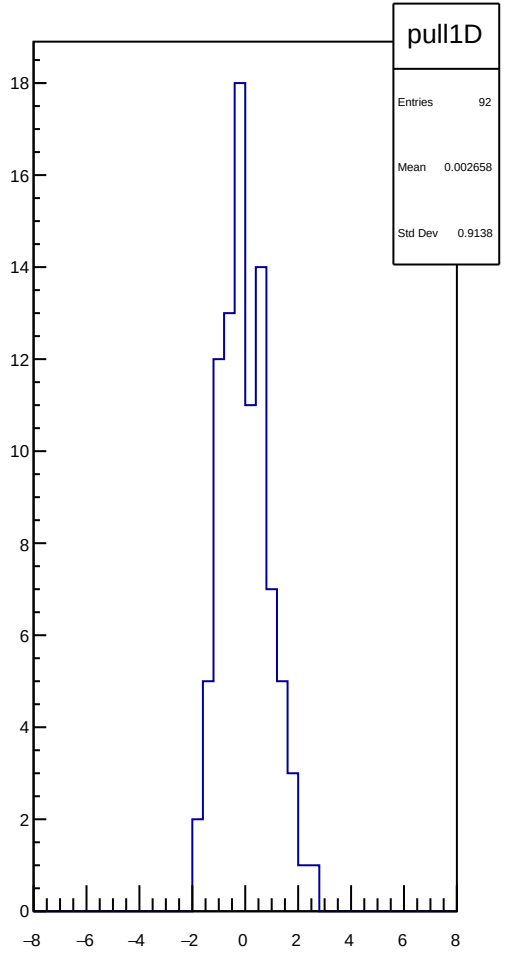

pull1D
Entries 92
Mean 0.002658
Std Dev 0.9138

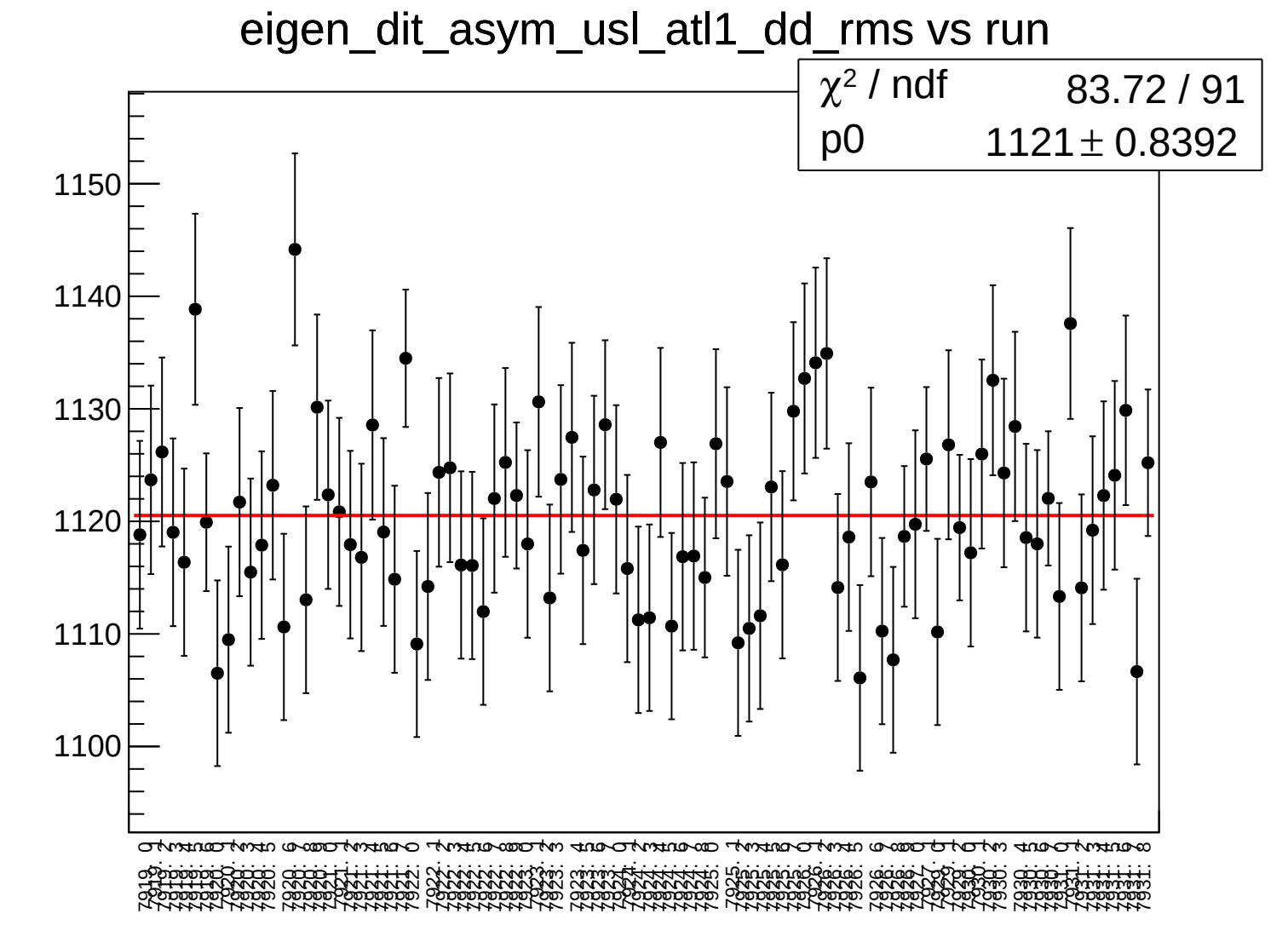

dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 83.72 / 91
p0 1121 ± 0.8392
1150
1140
1130
1120
1110
1100

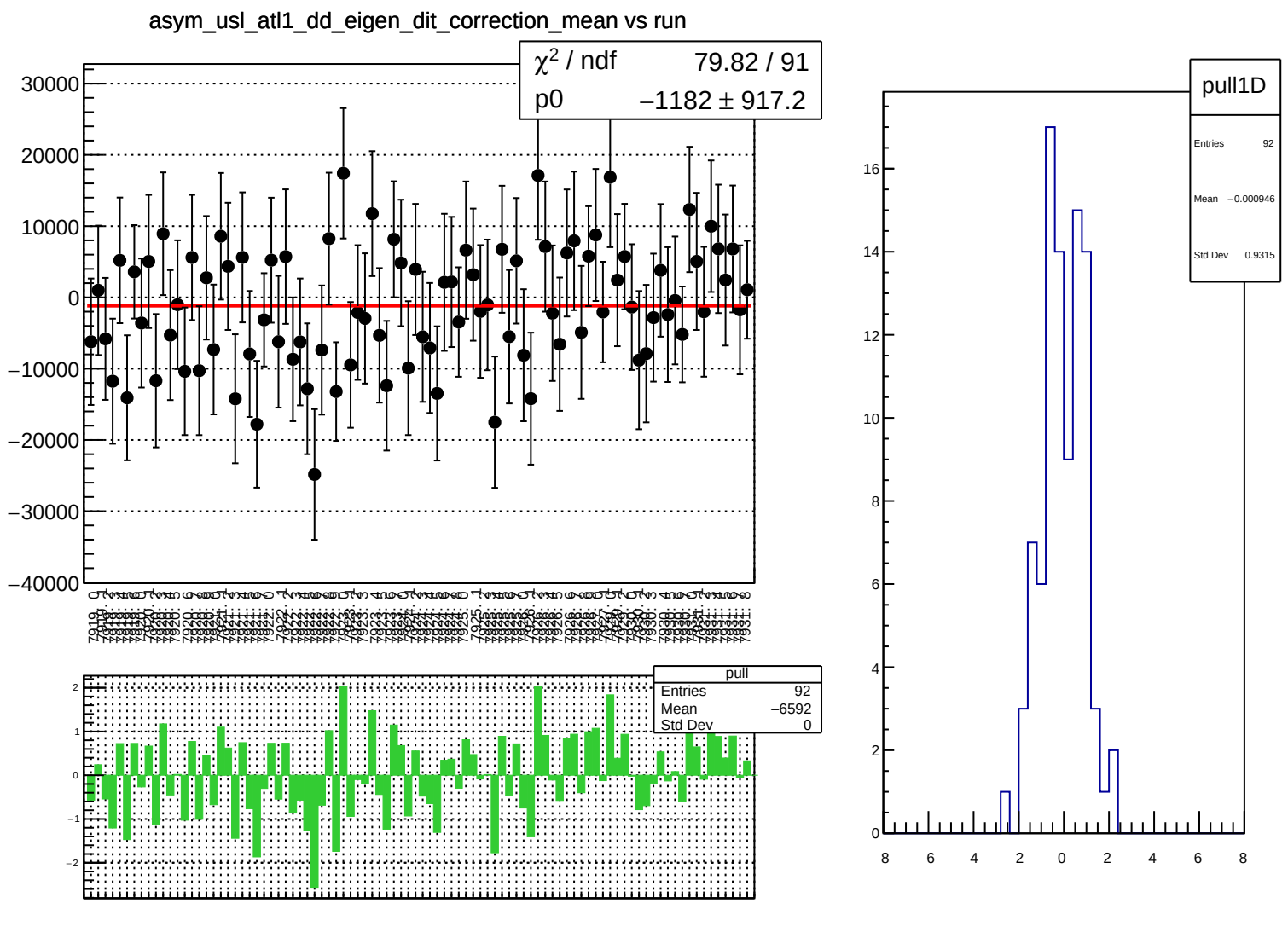

asym_usl_atl1_dd_dit_correction_mean vs run
χ² / ndf 79.82 / 91
p0 −1182 ± 917.2
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 92
Mean −6592
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.000946
Std Dev 0.9315
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

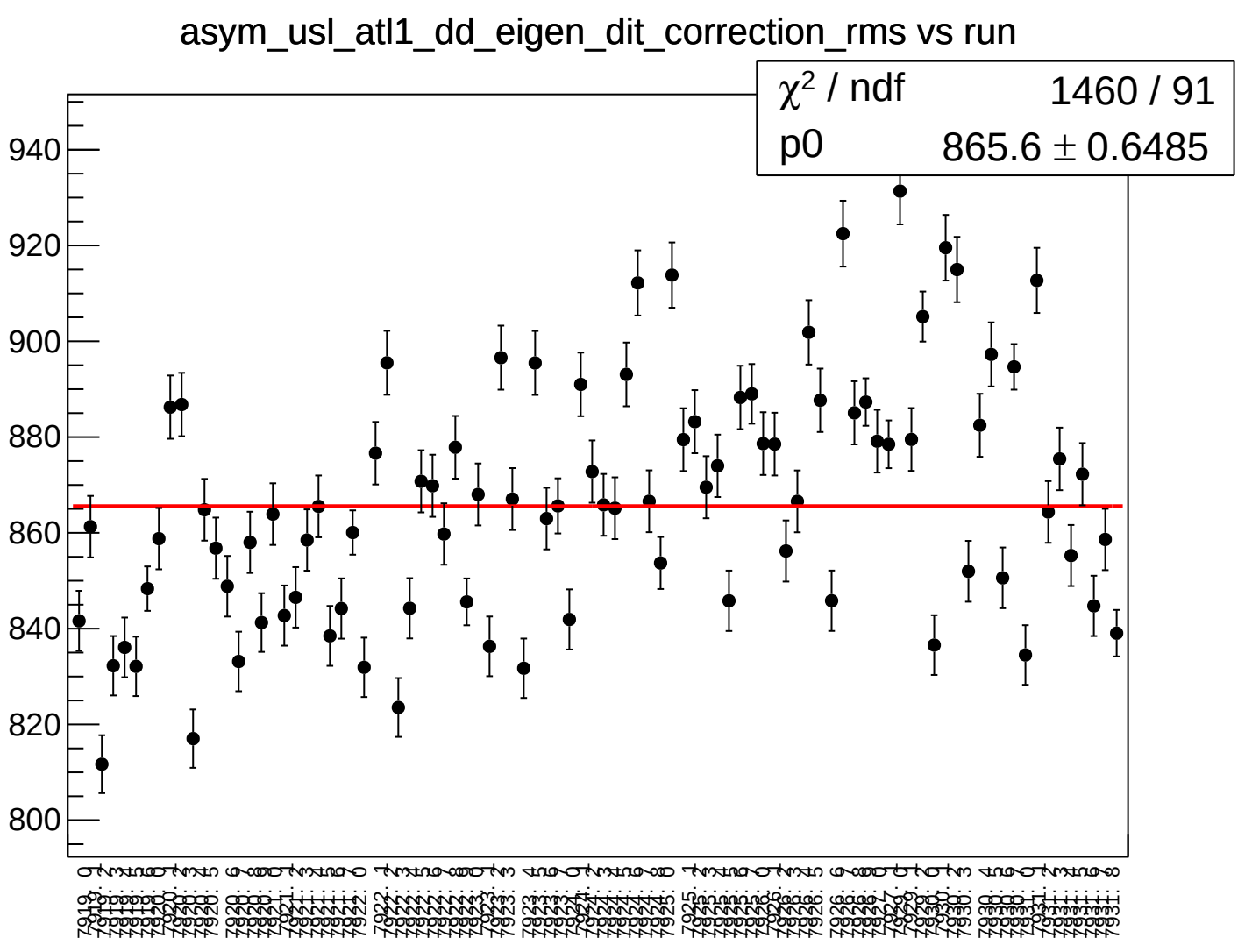

asym_usl_atl1_dd_dit_correction_rms vs run
χ² / ndf 1460 / 91
p0 865.6 ± 0.6485
940
920
900
880
860
840
820
800

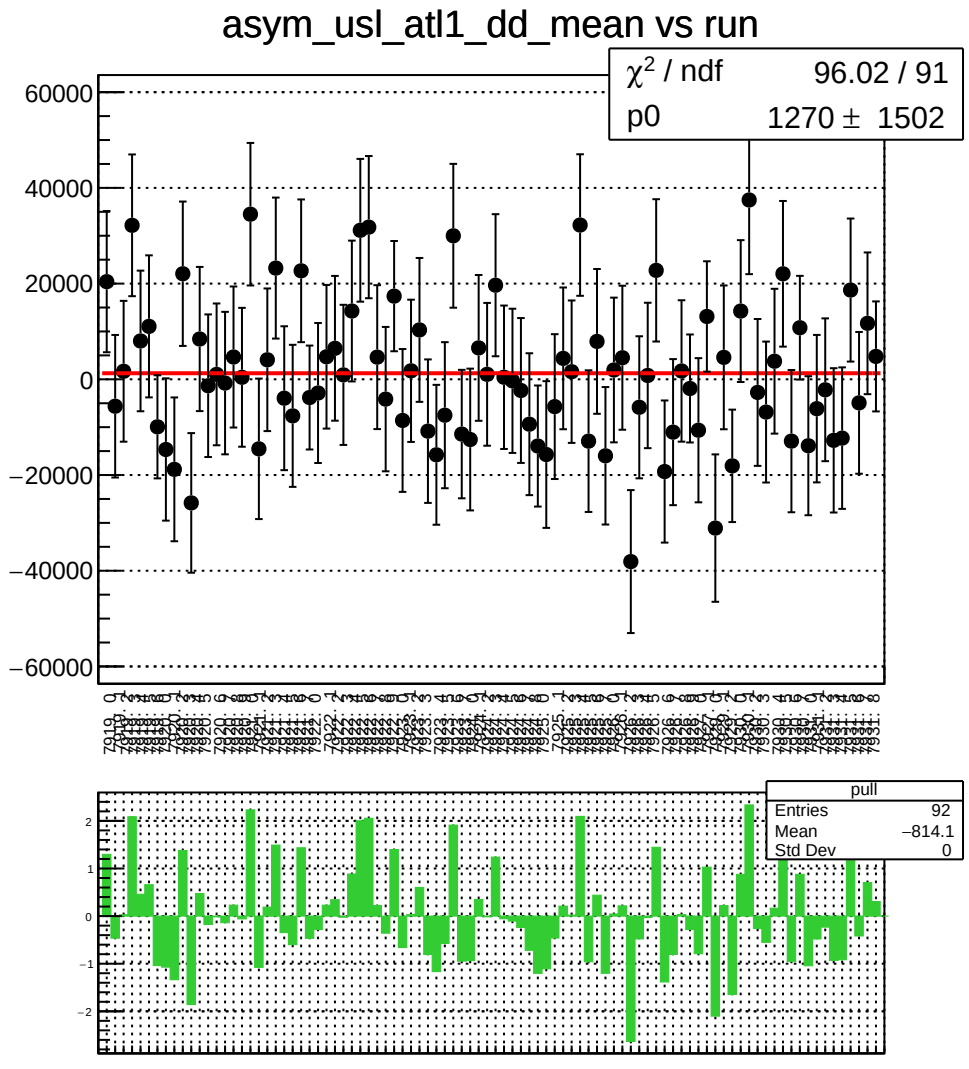

eigen_dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 76.82 / 91
p0 124.5 ± 1187
pull
Entries 92
Mean 227.7
Std Dev 0

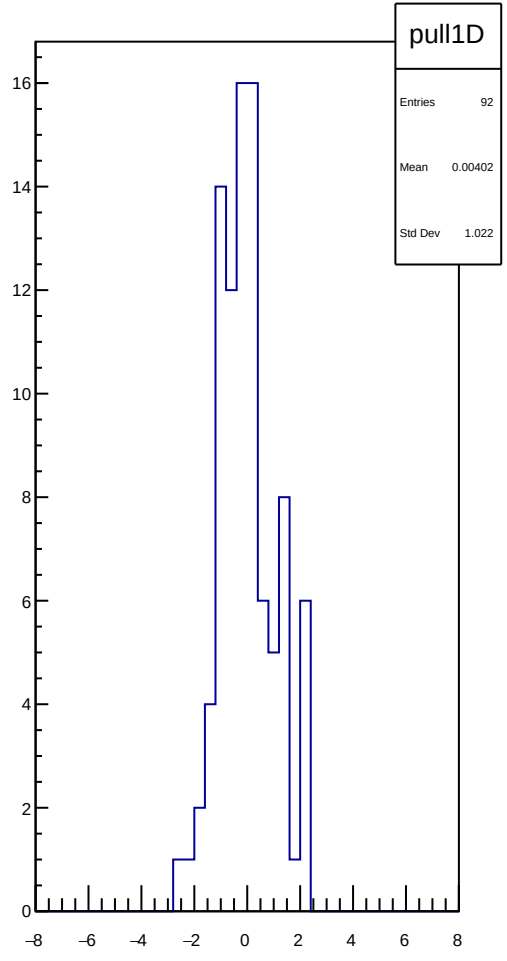

pull1D
Entries 92
Mean 0.002658
Std Dev 0.9138

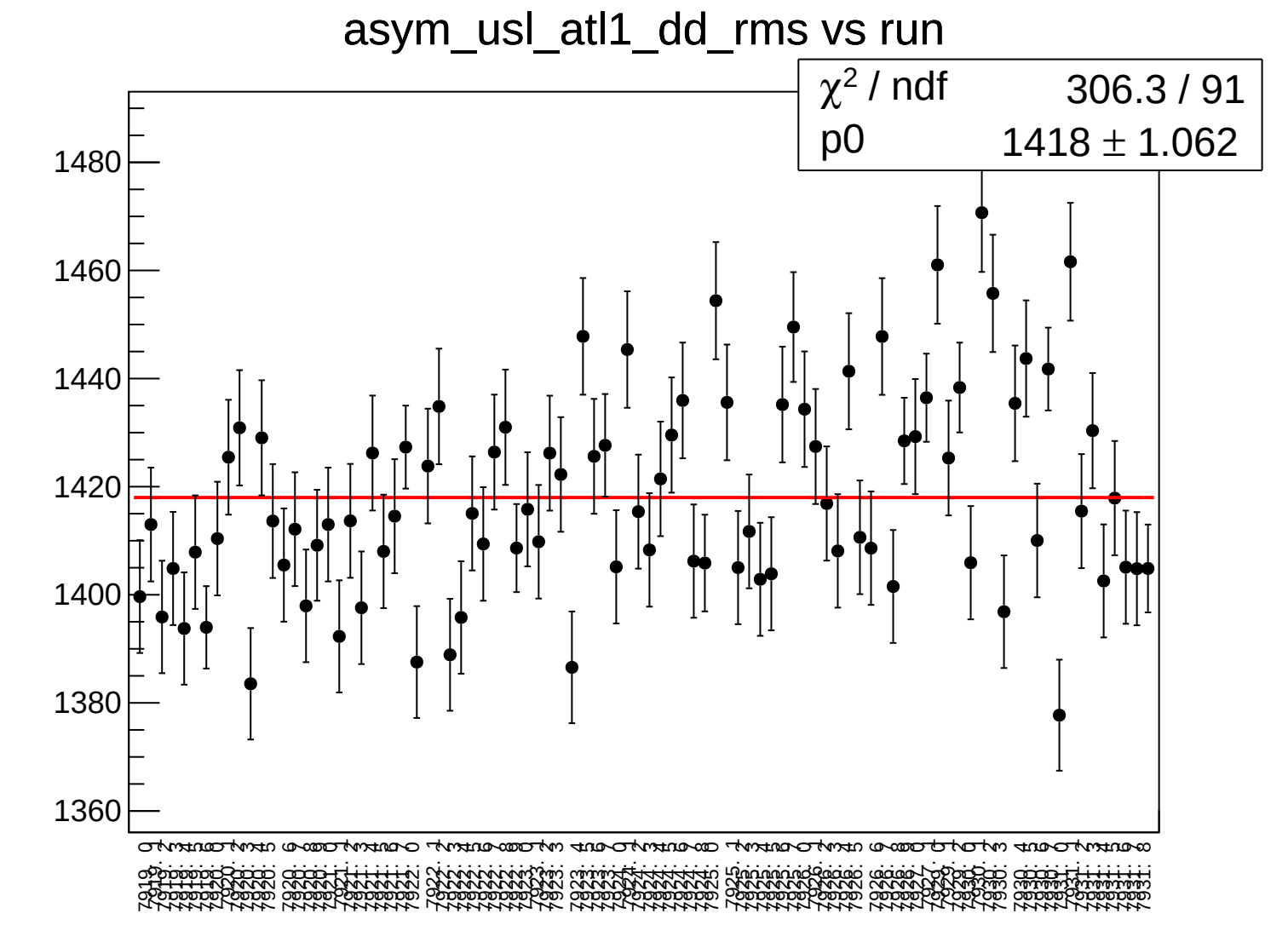

eigen_dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 83.72 / 91
p0 1121 ± 0.8392
1150
1140
1130
1120
1110
1100

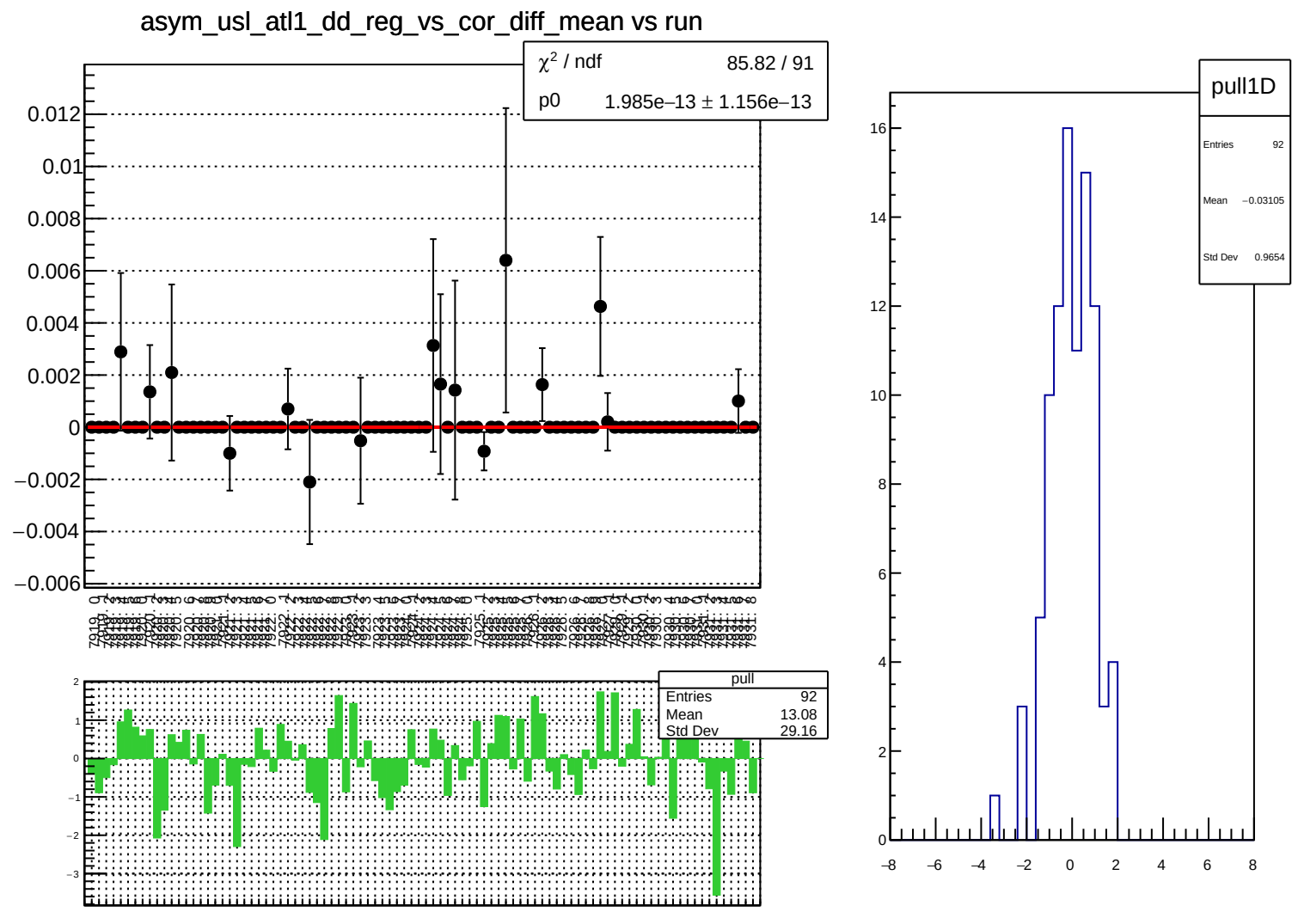

asym_usl_atl1_dd_eigen_dit_correction_mean vs run
χ² / ndf 79.82 / 91
p0 −1182 ± 917.2
pull
Entries 92
Mean −6592
Std Dev 0
pull1D
Entries 92
Mean −0.000946
Std Dev 0.9315

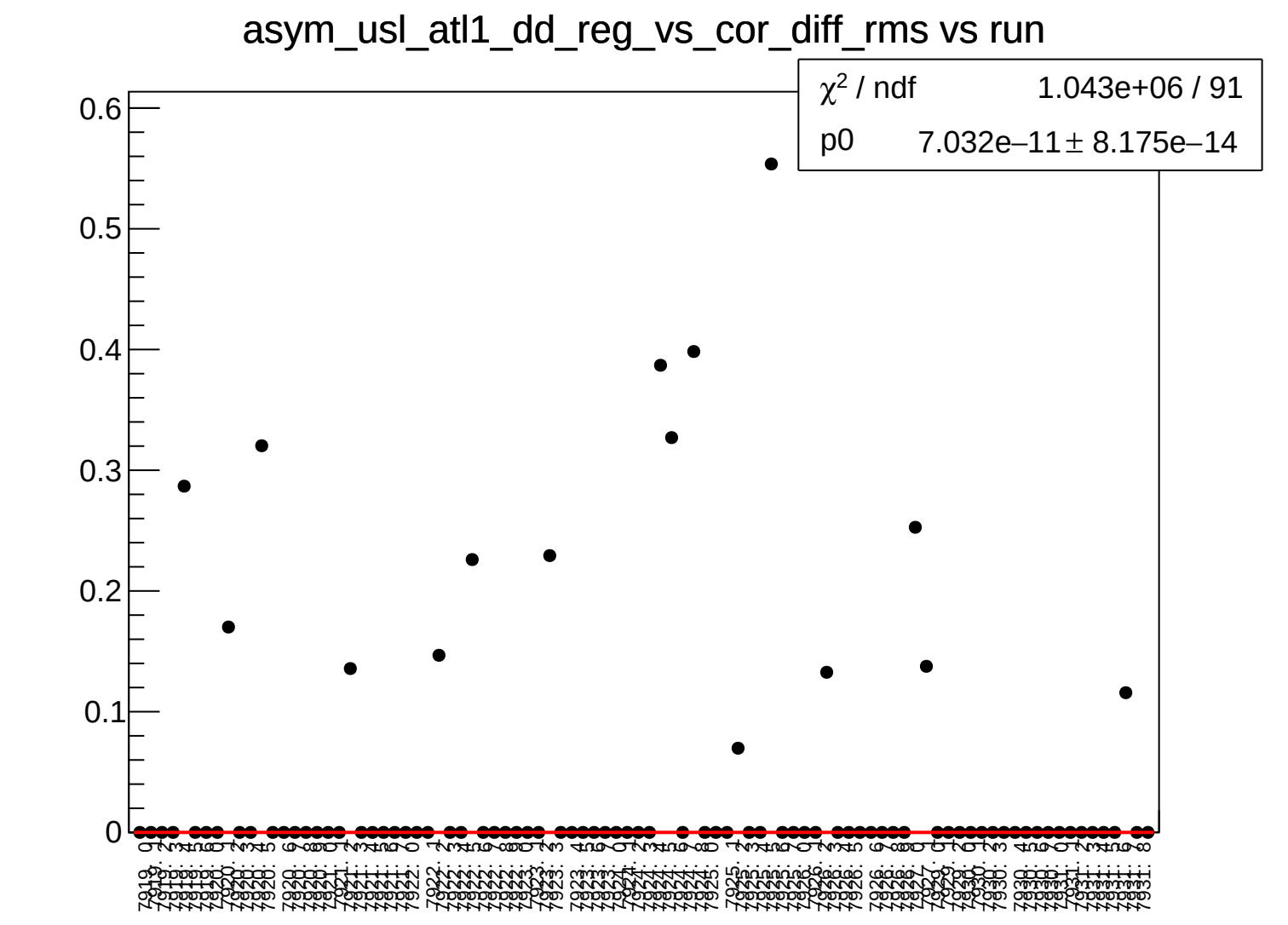

asym_usl_atl1_dd_eigen_dit_correction_rms vs run
χ² / ndf 1460 / 91
p0 865.6 ± 0.6485
940
920
900
880
860
840
820
800

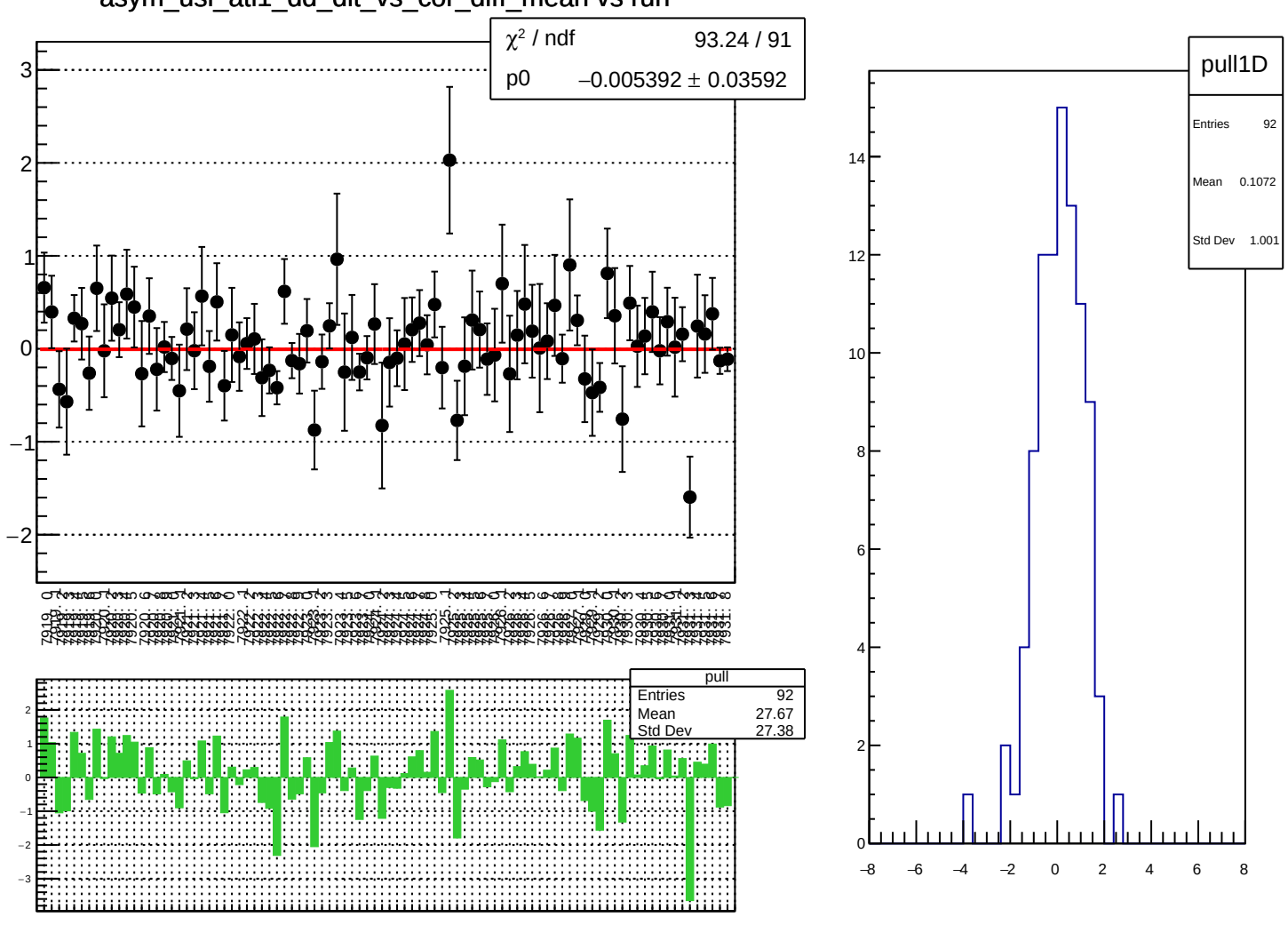

asym_usl_atl1_dd_mean vs run
χ² / ndf 96.02 / 91
p0 1270 ± 1502
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −814.1
Std Dev 0
2
1
0
−1
−2

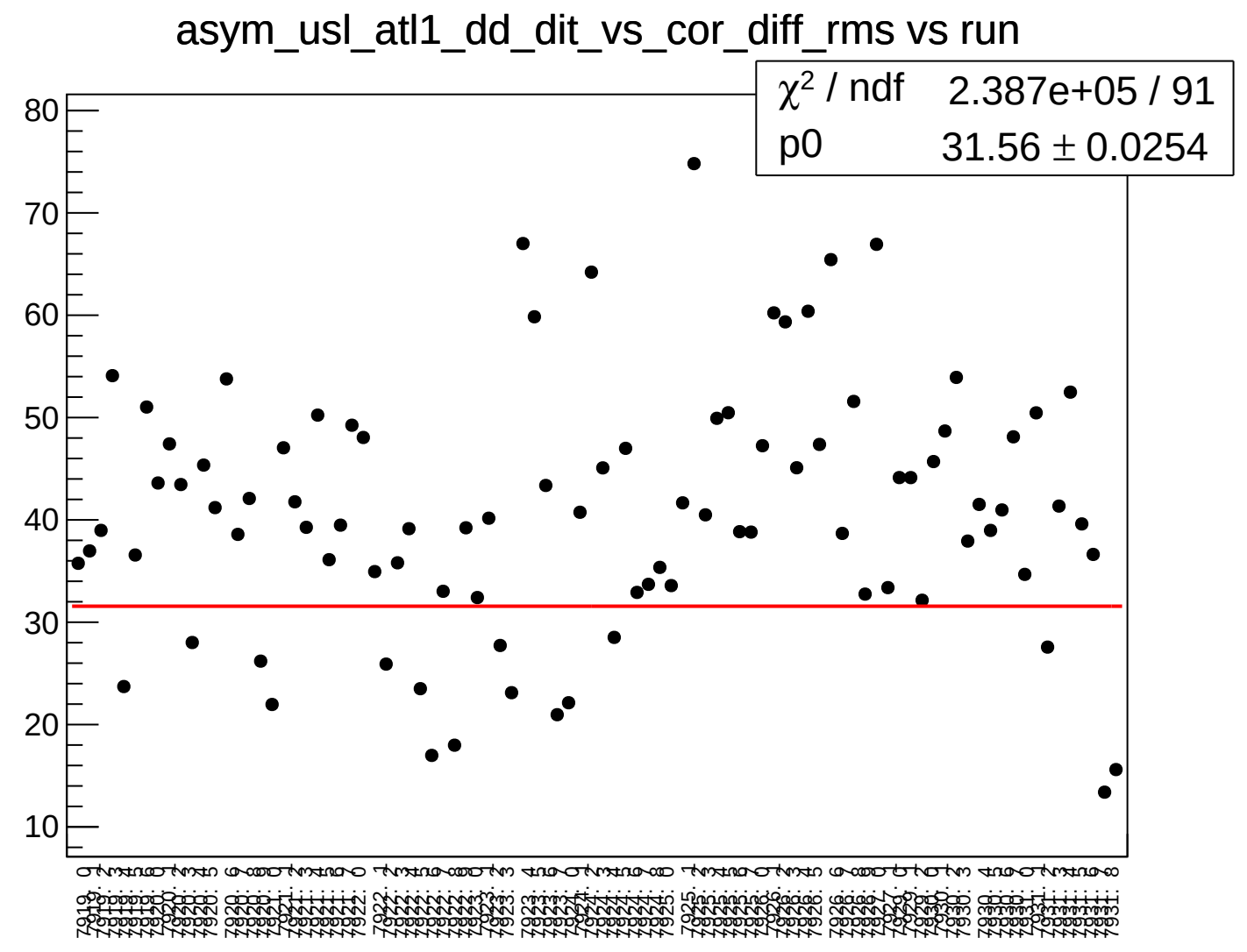

pull1D
Entries 92
Mean 0.00402
Std Dev 1.022
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

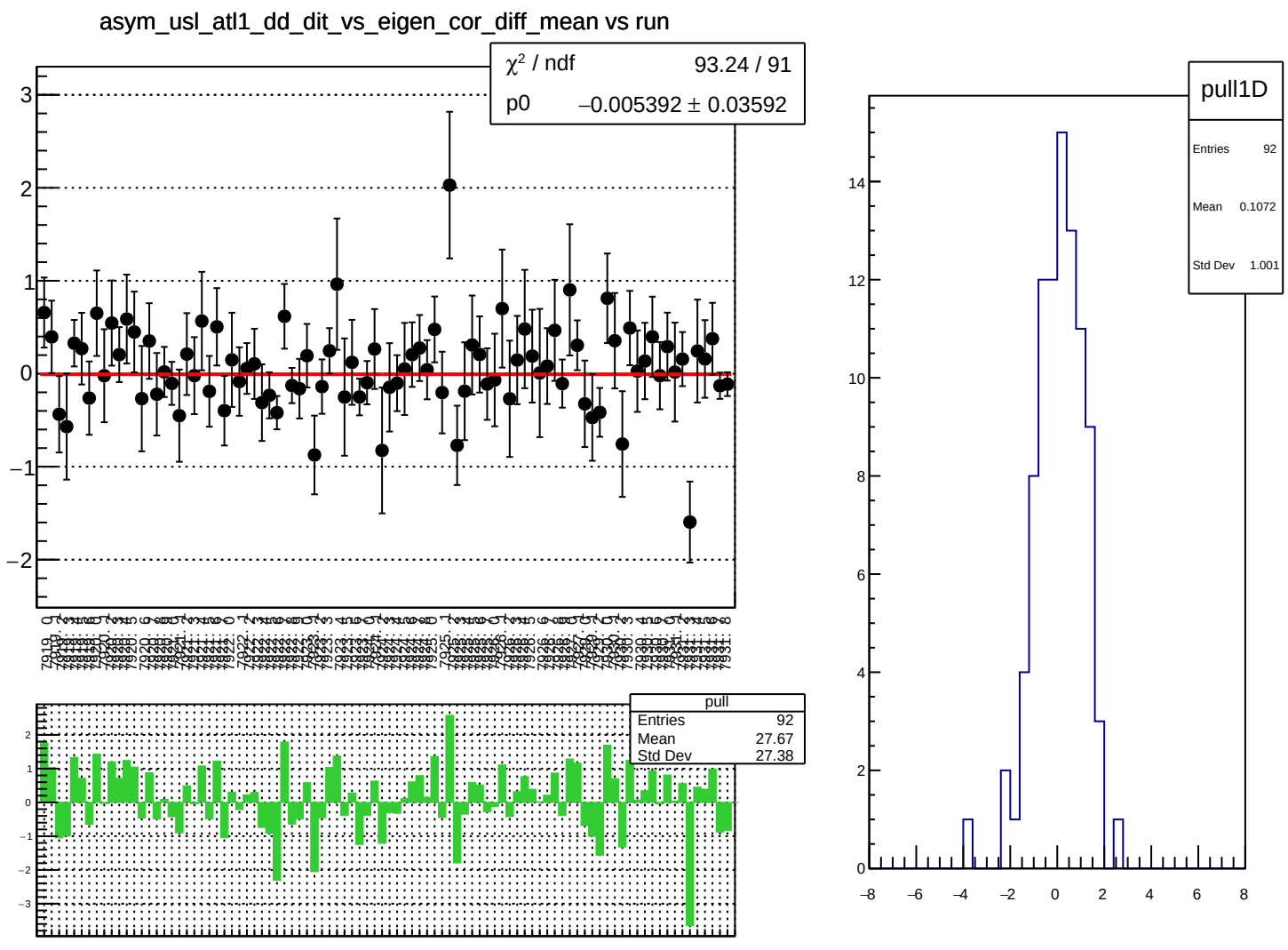

asym_usl_atl1_dd_rms vs run
χ² / ndf 306.3 / 91
p0 1418 ± 1.062
1480
1460
1440
1420
1400
1380
1360

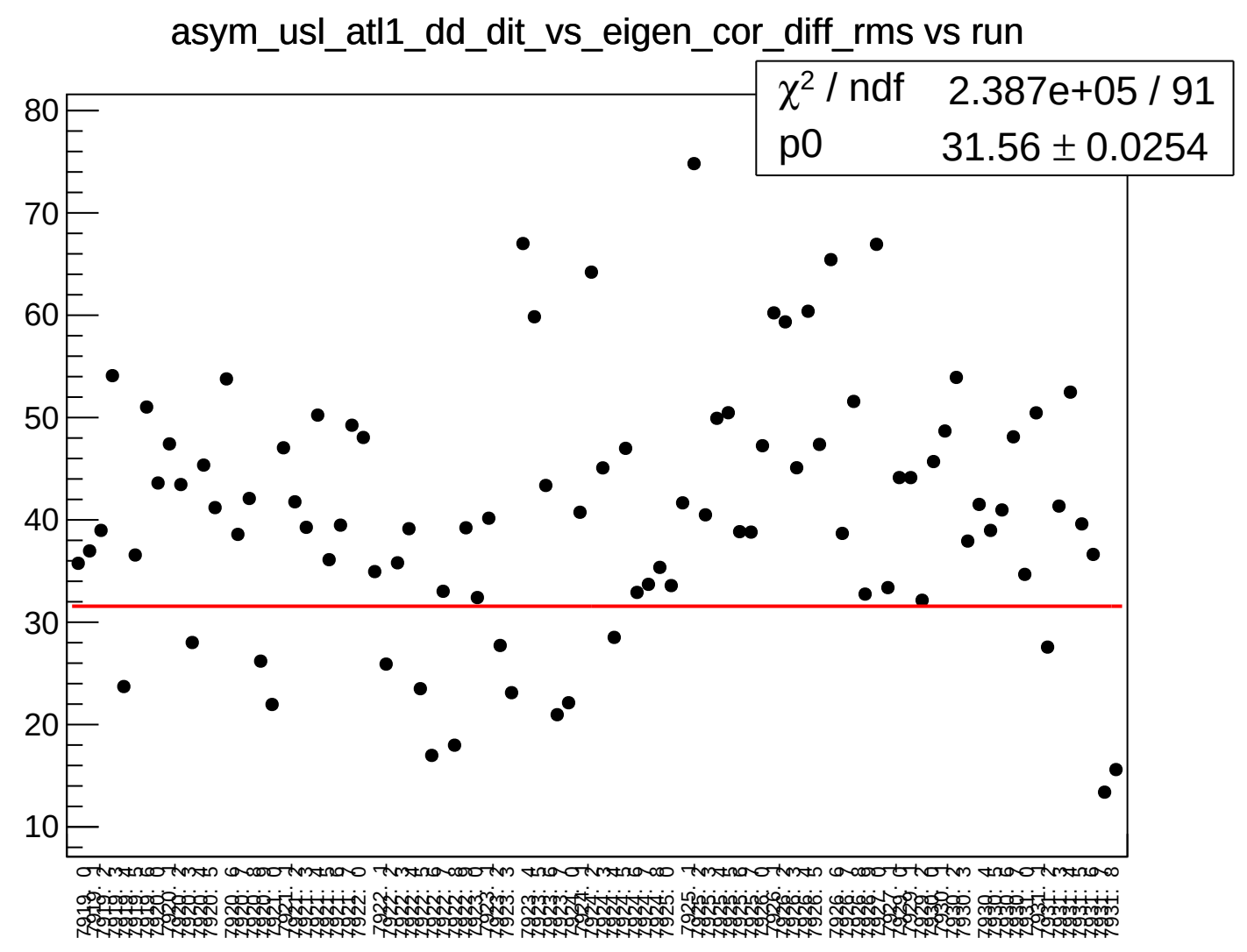

asym_usl_atl1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 85.82 / 91
p0 1.985e−13 ± 1.156e−13
pull
Entries 92
Mean 13.08
Std Dev 29.16
pull1D
Entries 92
Mean −0.03105
Std Dev 0.9654

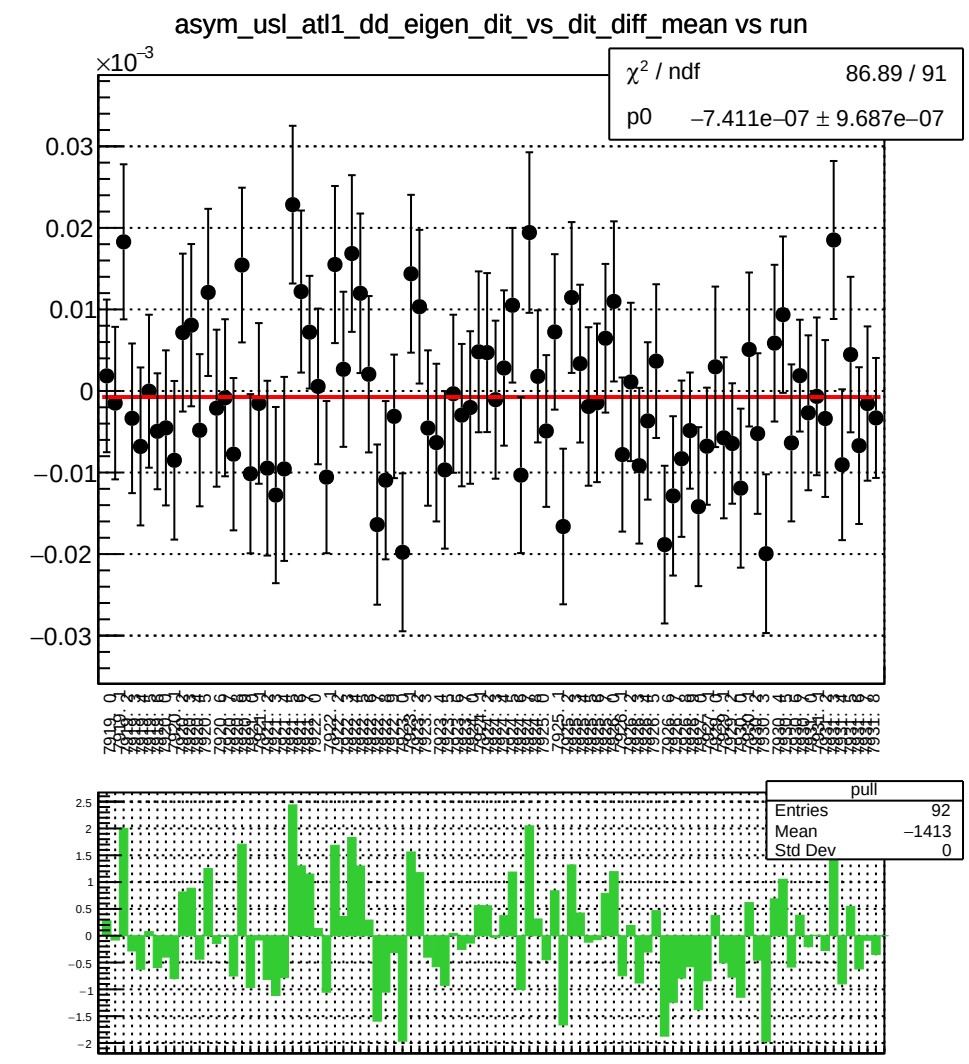

asym_usl_atl1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.043e+06 / 91
p0 7.032e−11 ± 8.175e−14
0.6
0.5
0.4
0.3
0.2
0.1
0

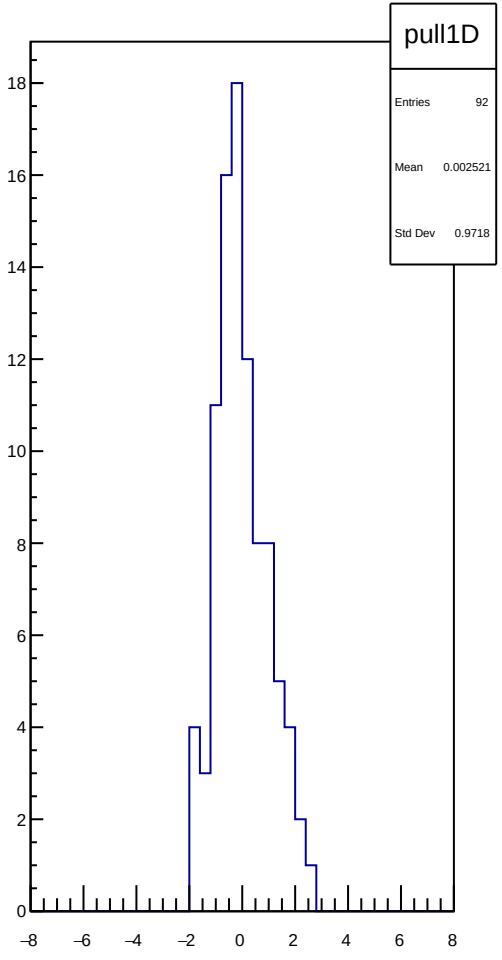

asym_usl_atl1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 93.24 / 91
p0 −0.005392 ± 0.03592
pull
Entries 92
Mean 27.67
Std Dev 27.38
pull1D
Entries 92
Mean 0.1072
Std Dev 1.001

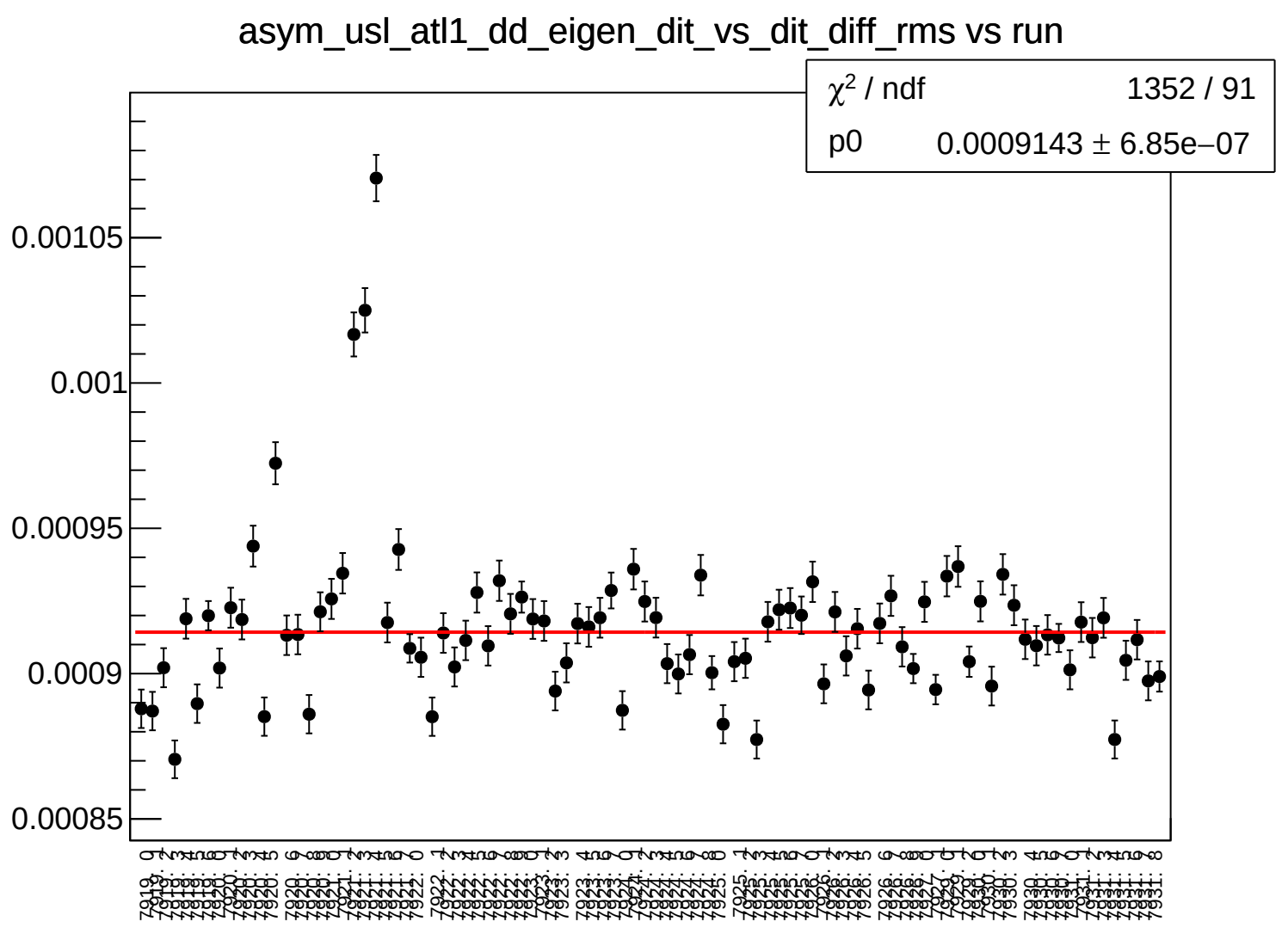

asym_usl_atl1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.387e+05 / 91
p0 31.56 ± 0.0254
80
70
60
50
40
30
20
10

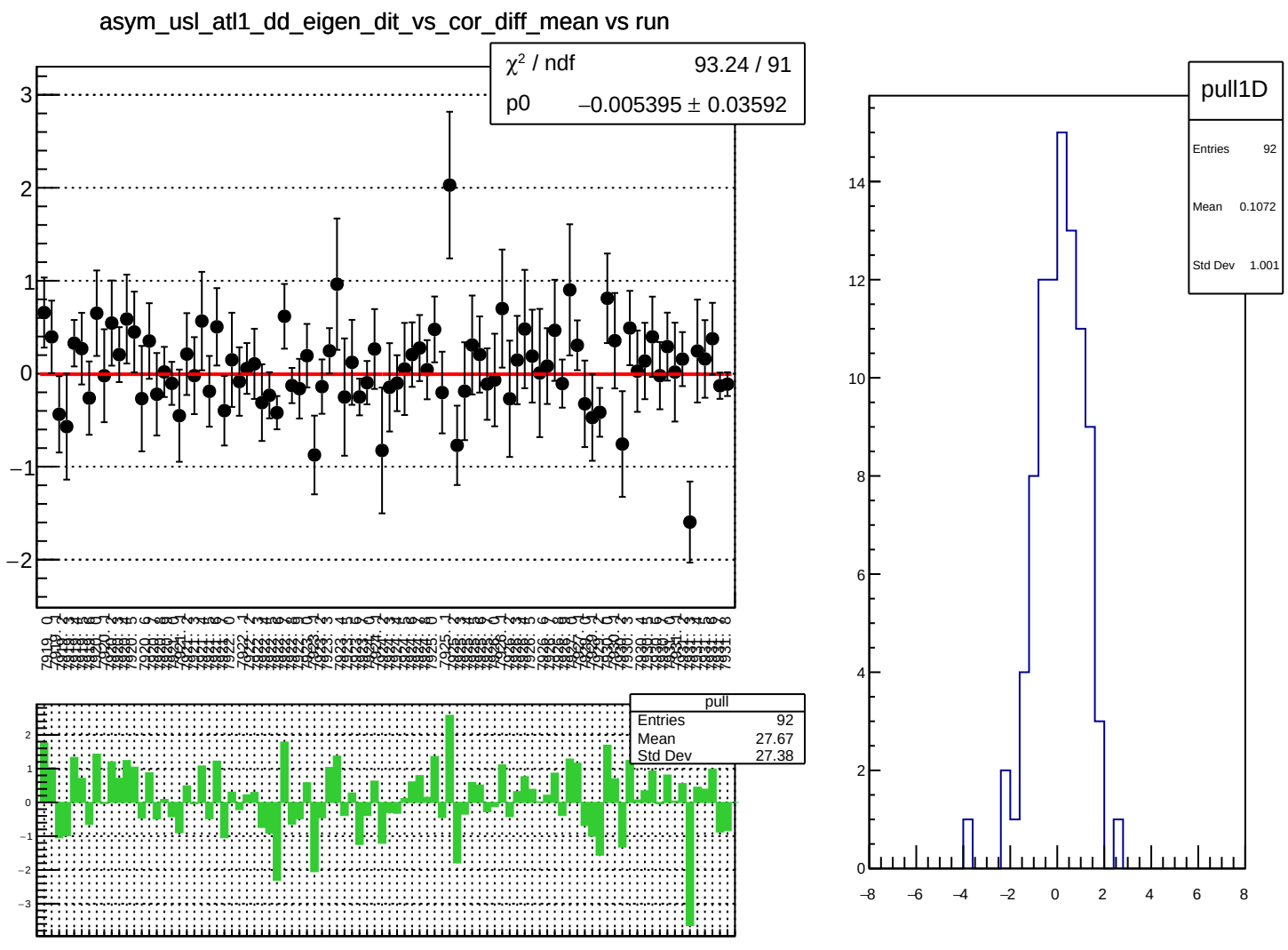

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.24 / 91
p0 −0.005392 ± 0.03592
pull
Entries 92
Mean 27.67
Std Dev 27.38
pull1D
Entries 92
Mean 0.1072
Std Dev 1.001

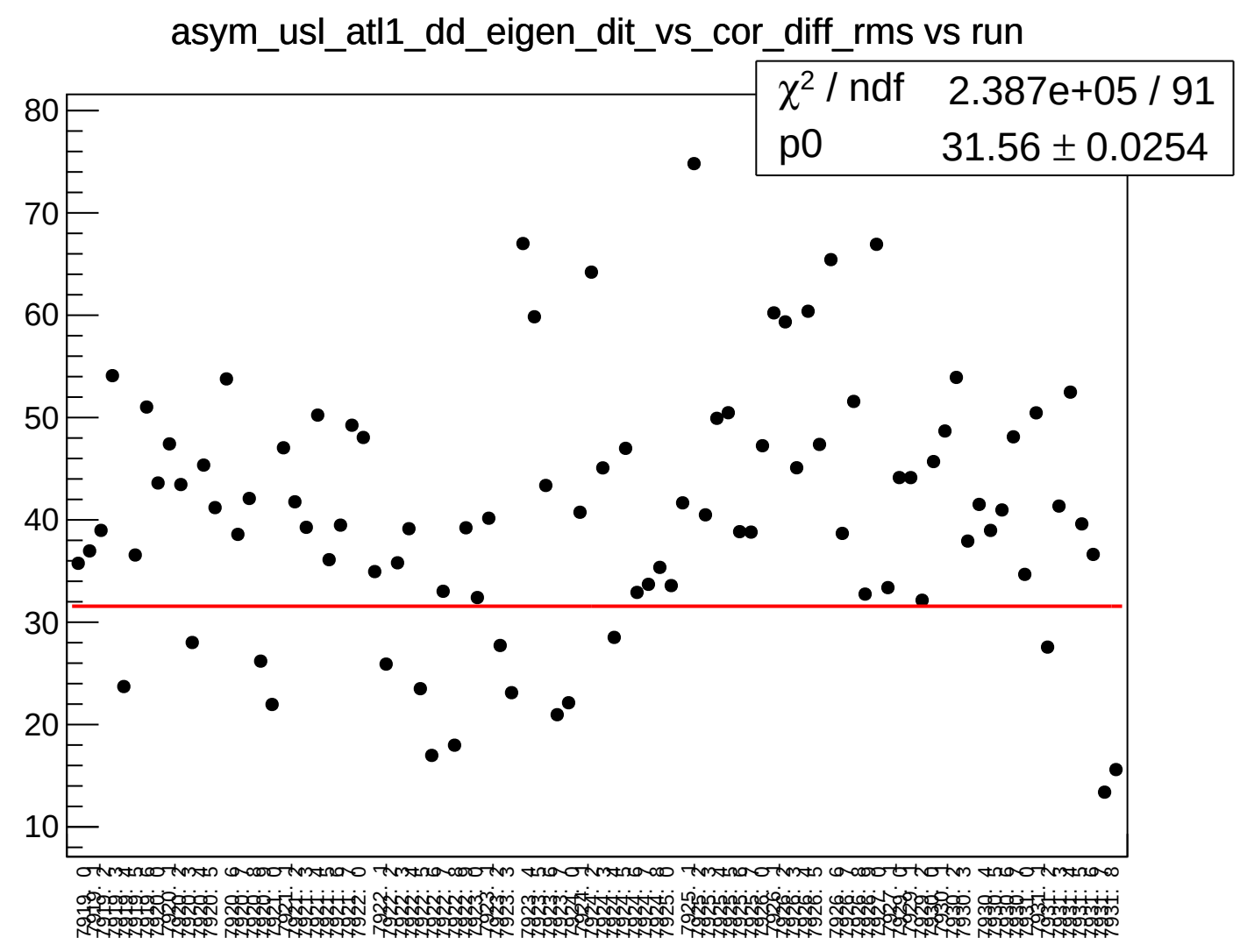

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.387e+05 / 91
p0 31.56 ± 0.0254
80
70
60
50
40
30
20
10

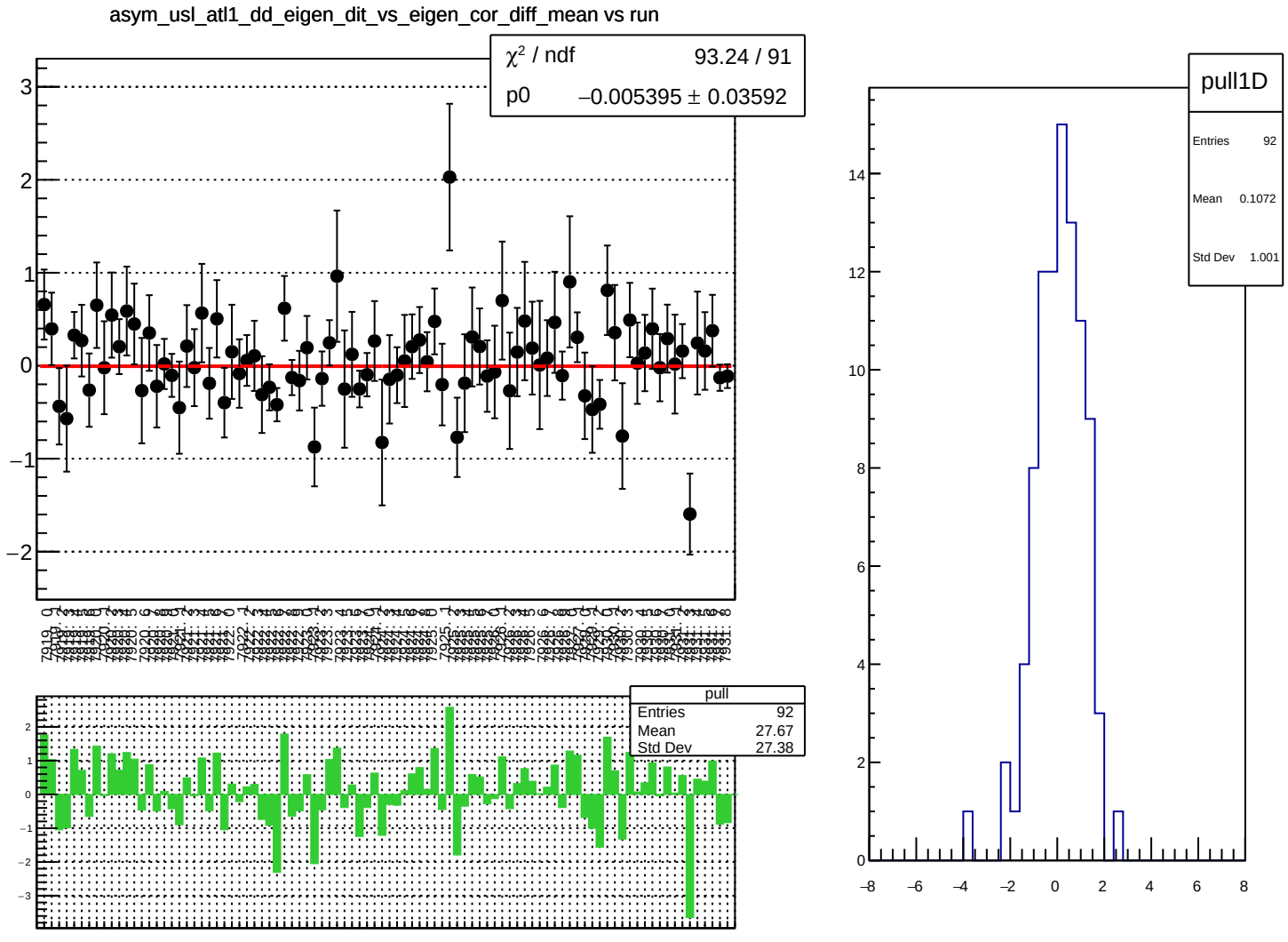

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 86.89 / 91
p0 −7.411e−07 ± 9.687e−07
pull
Entries 92
Mean −1413
Std Dev 0

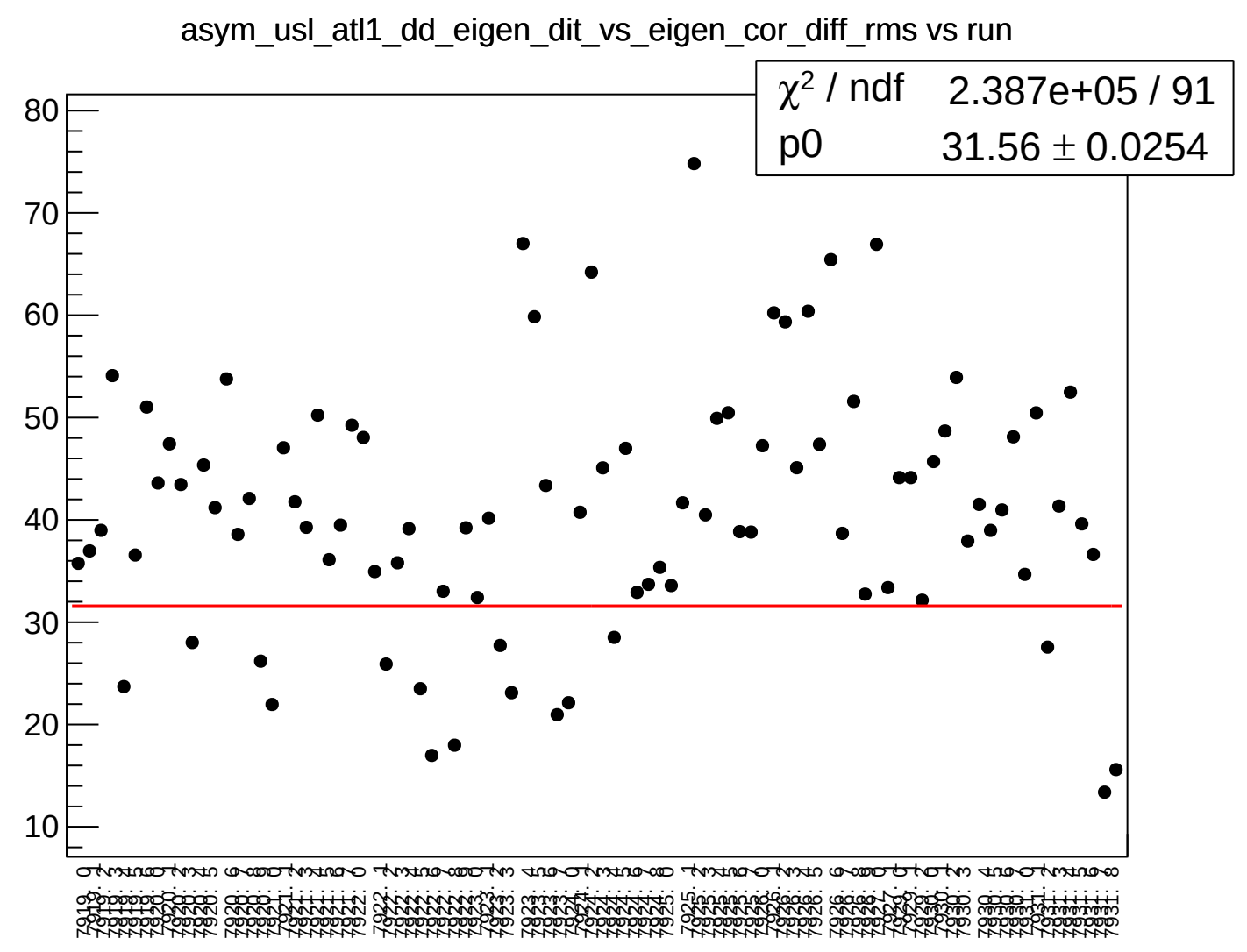

pull1D
Entries 92
Mean 0.002521
Std Dev 0.9718

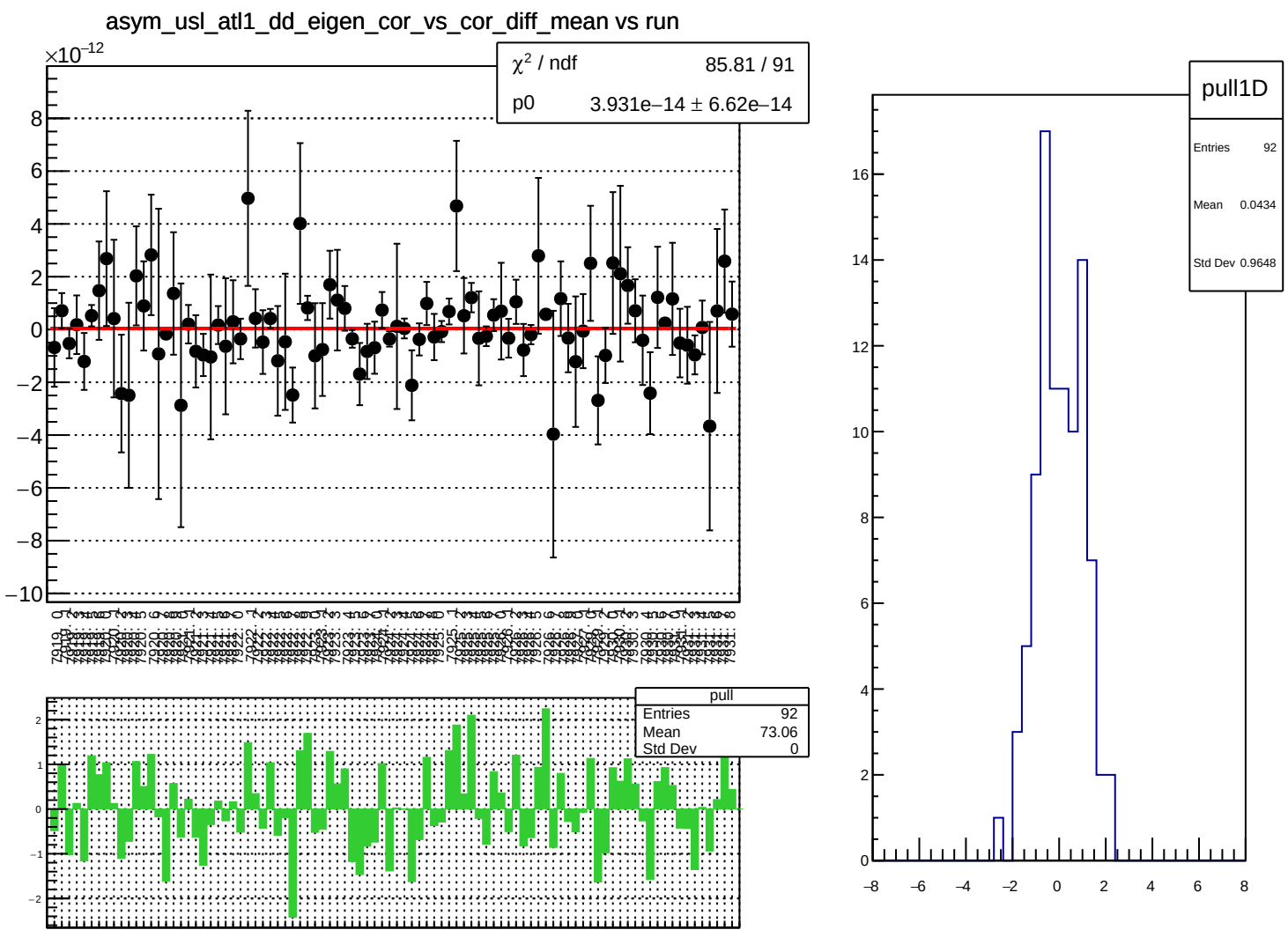

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1352 / 91
p0 0.0009143 ± 6.85e−07
0.00105
0.001
0.00095
0.0009
0.00085

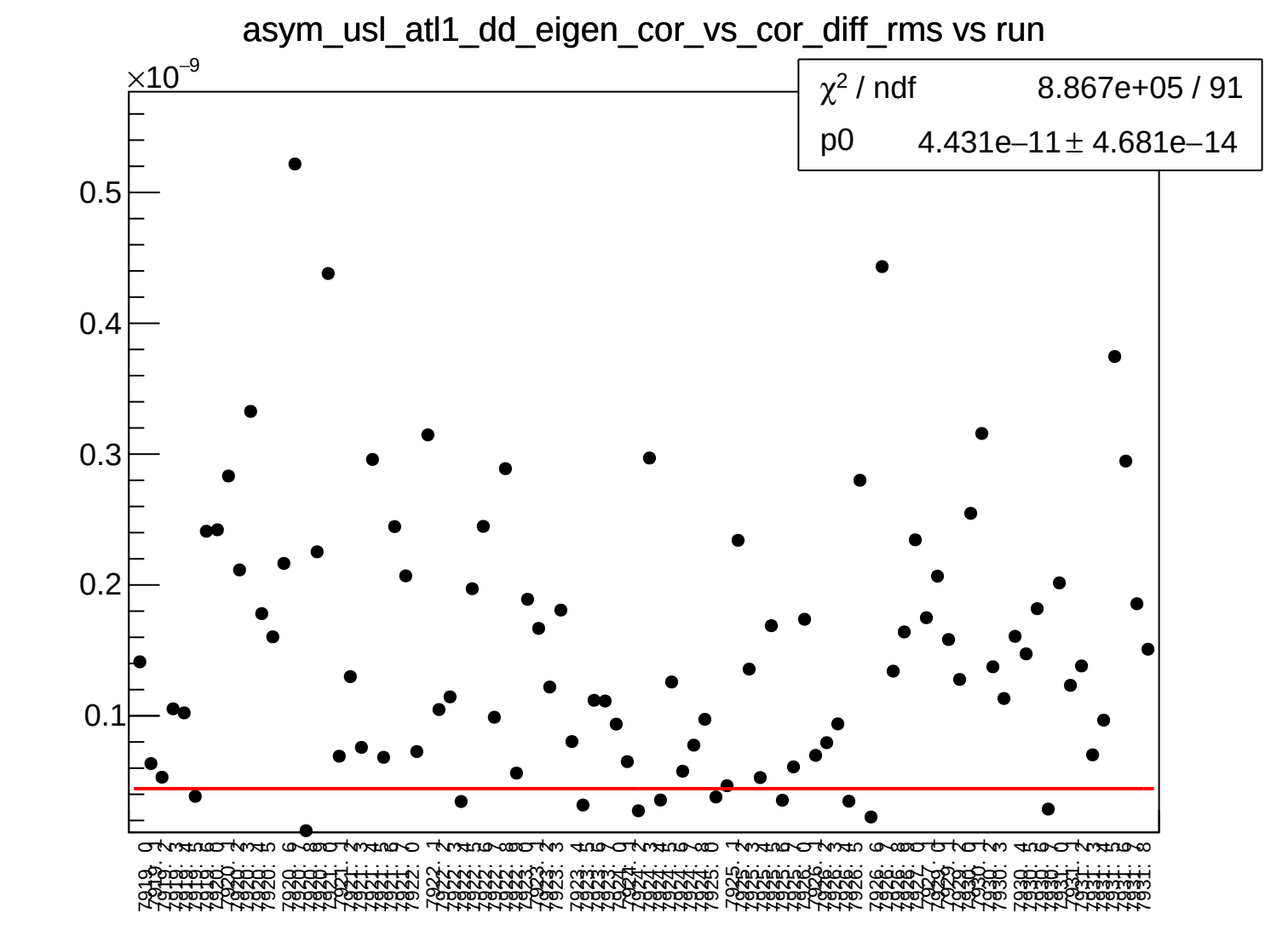

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.24 / 91
p0 −0.005395 ± 0.03592
pull
Entries 92
Mean 27.67
Std Dev 27.38
pull1D
Entries 92
Mean 0.1072
Std Dev 1.001

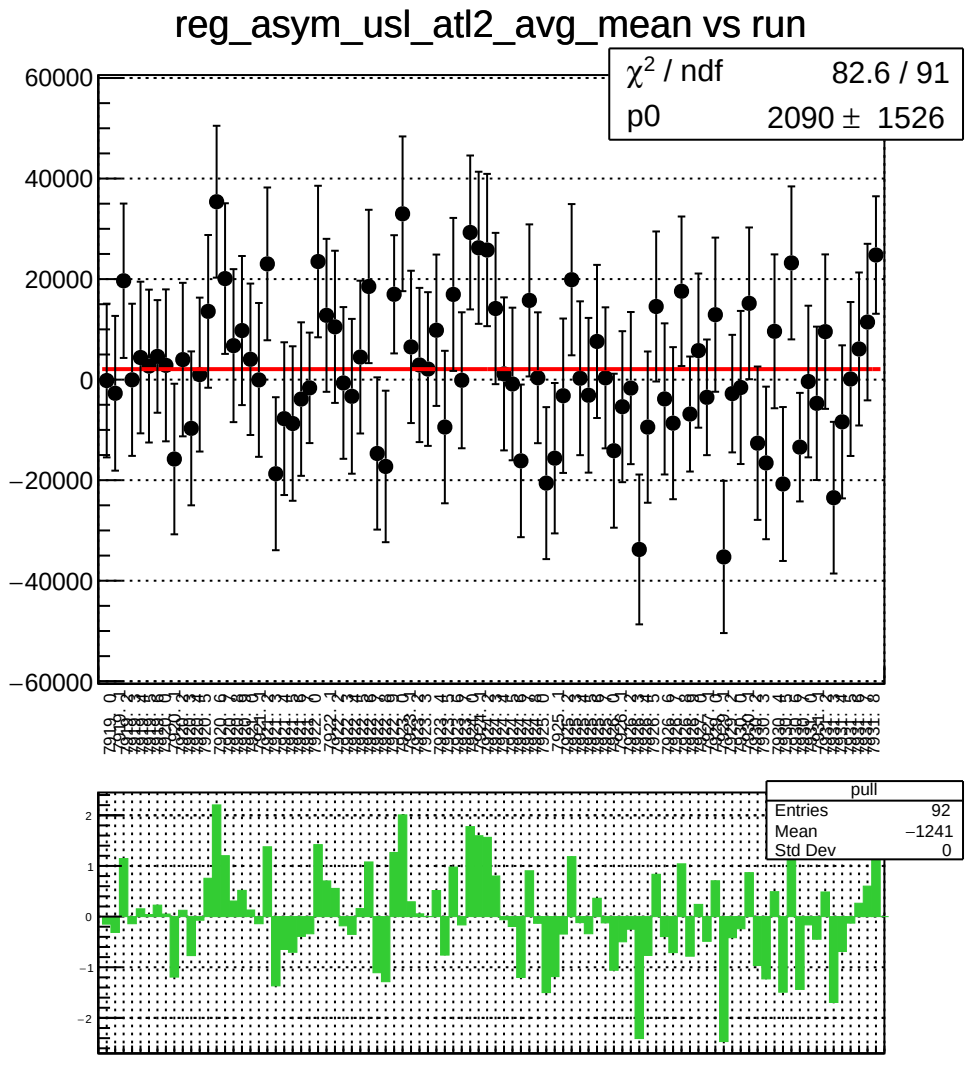

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.387e+05 / 91
p0 31.56 ± 0.0254
80
70
60
50
40
30
20
10

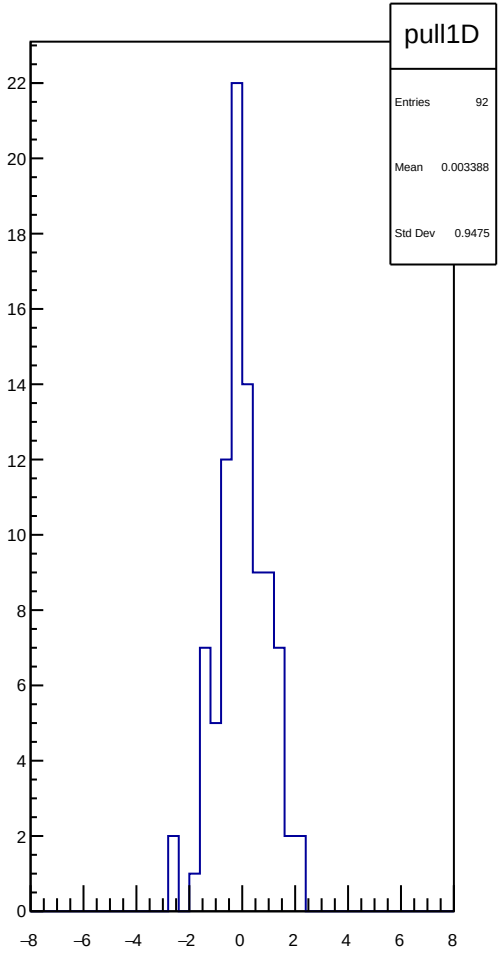

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.24 / 91
p0 −0.005395 ± 0.03592
pull
Entries 92
Mean 27.67
Std Dev 27.38
pull1D
Entries 92
Mean 0.1072
Std Dev 1.001

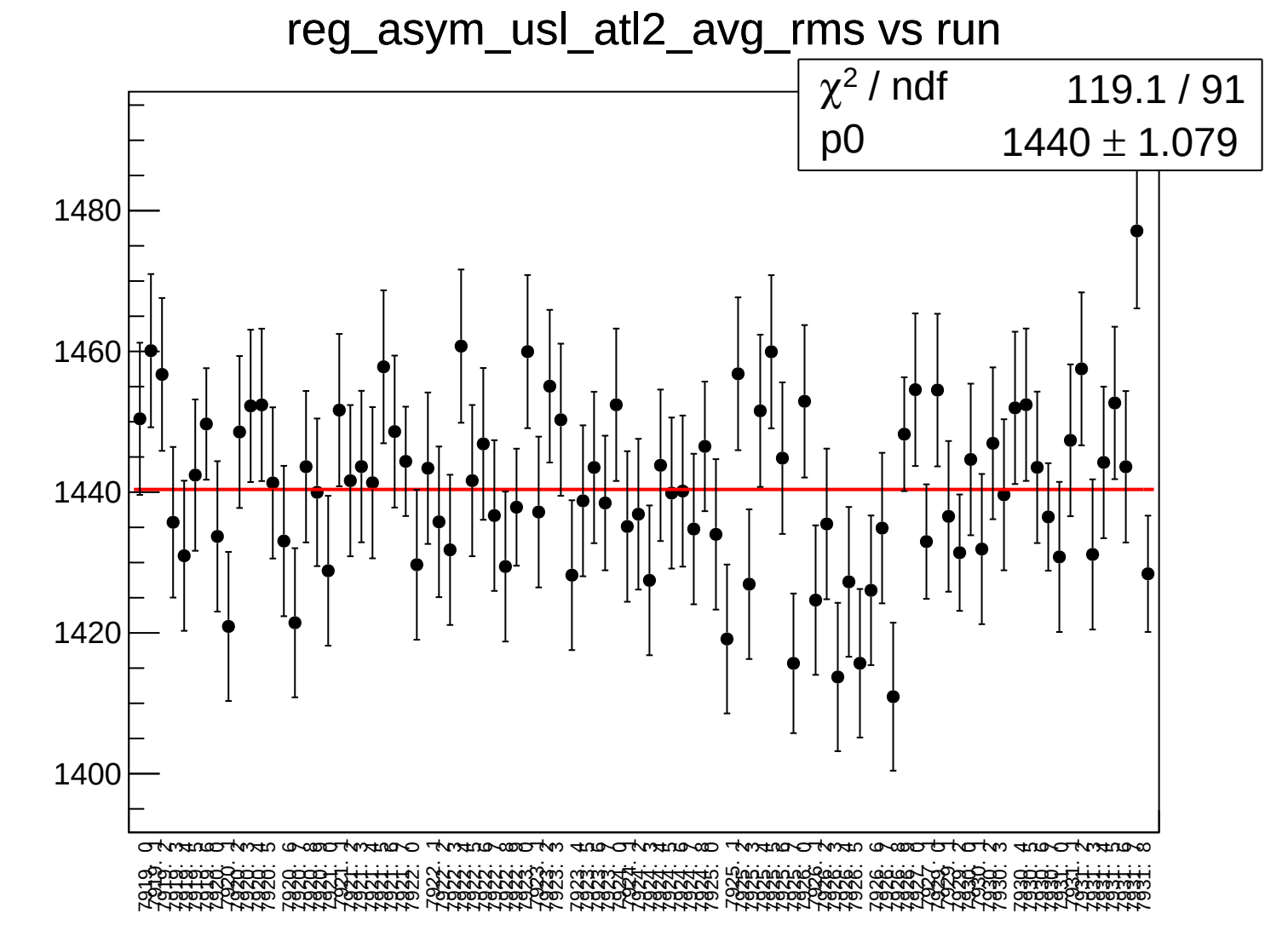

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.387e+05 / 91
p0 31.56 ± 0.0254
80
70
60
50
40
30
20
10

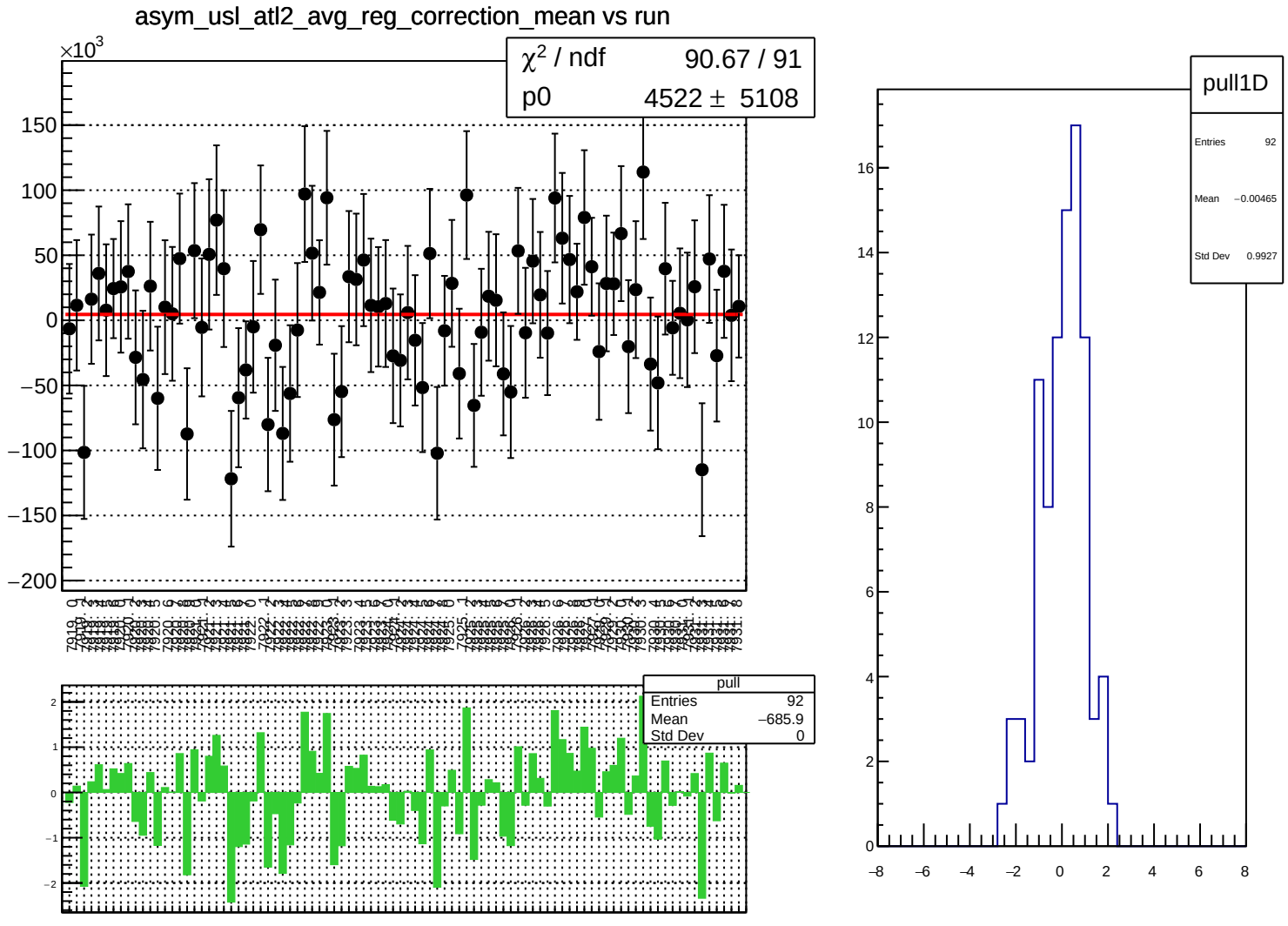

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.81 / 91
p0 3.931e−14 ± 6.62e−14
pull
Entries 92
Mean 73.06
Std Dev 0
pull1D
Entries 92
Mean 0.0434
Std Dev 0.9648

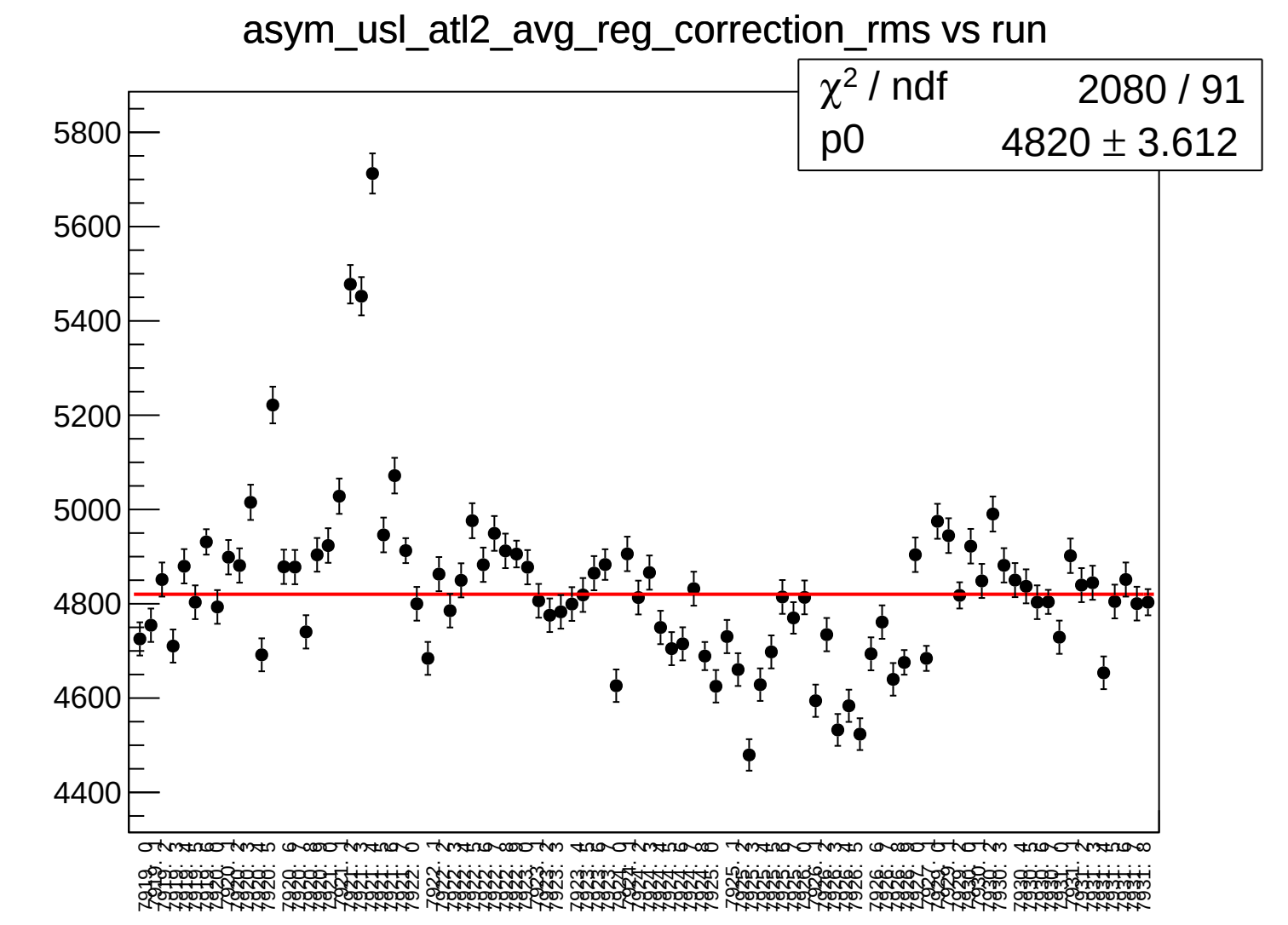

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.867e+05 / 91
p0 4.431e−11 ± 4.681e−14
0.5
0.4
0.3
0.2
0.1

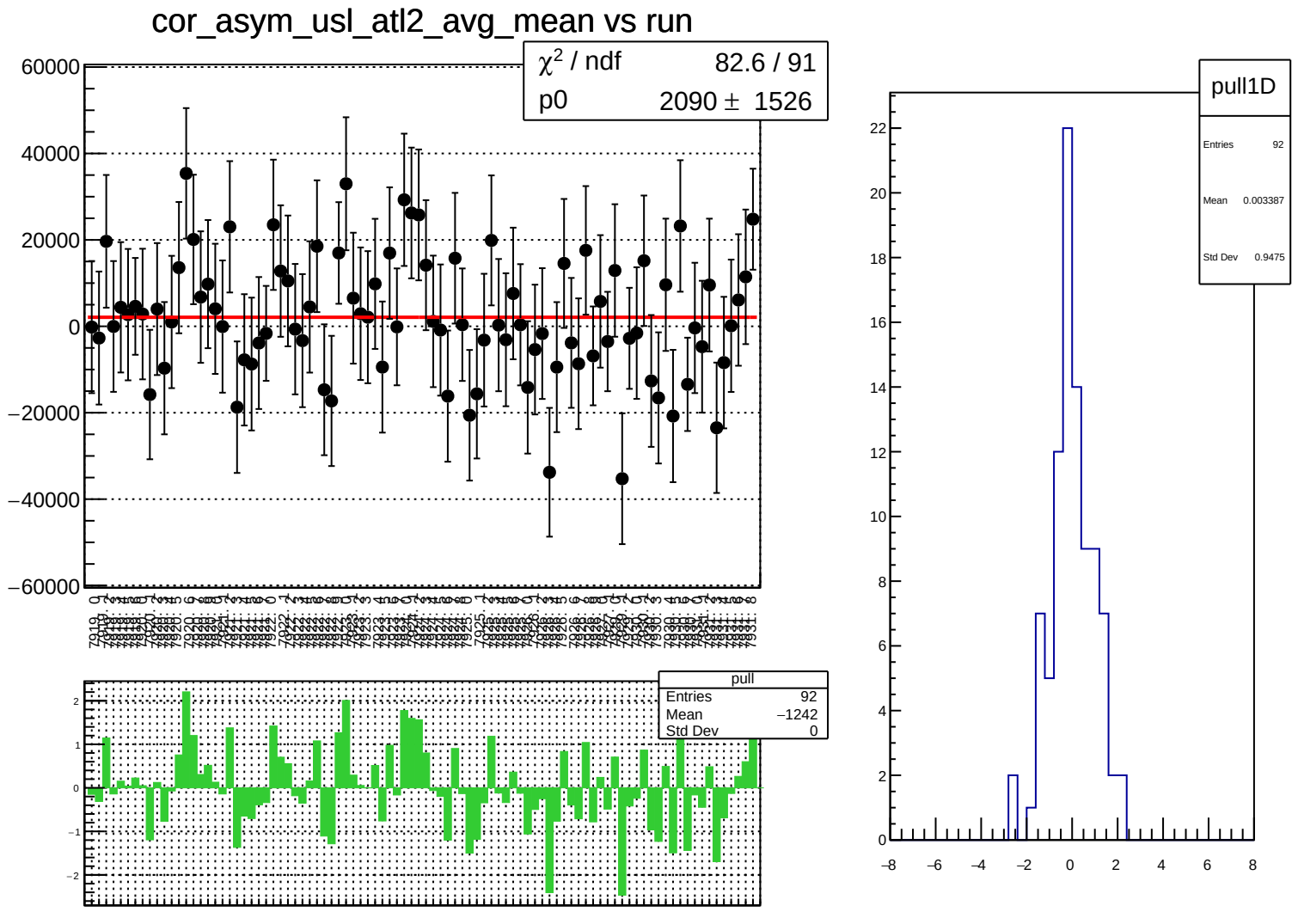

reg_asym_usl_atl2_avg_mean vs run
χ² / ndf 82.6 / 91
p0 2090 ± 1526
pull
Entries 92
Mean −1241
Std Dev 0

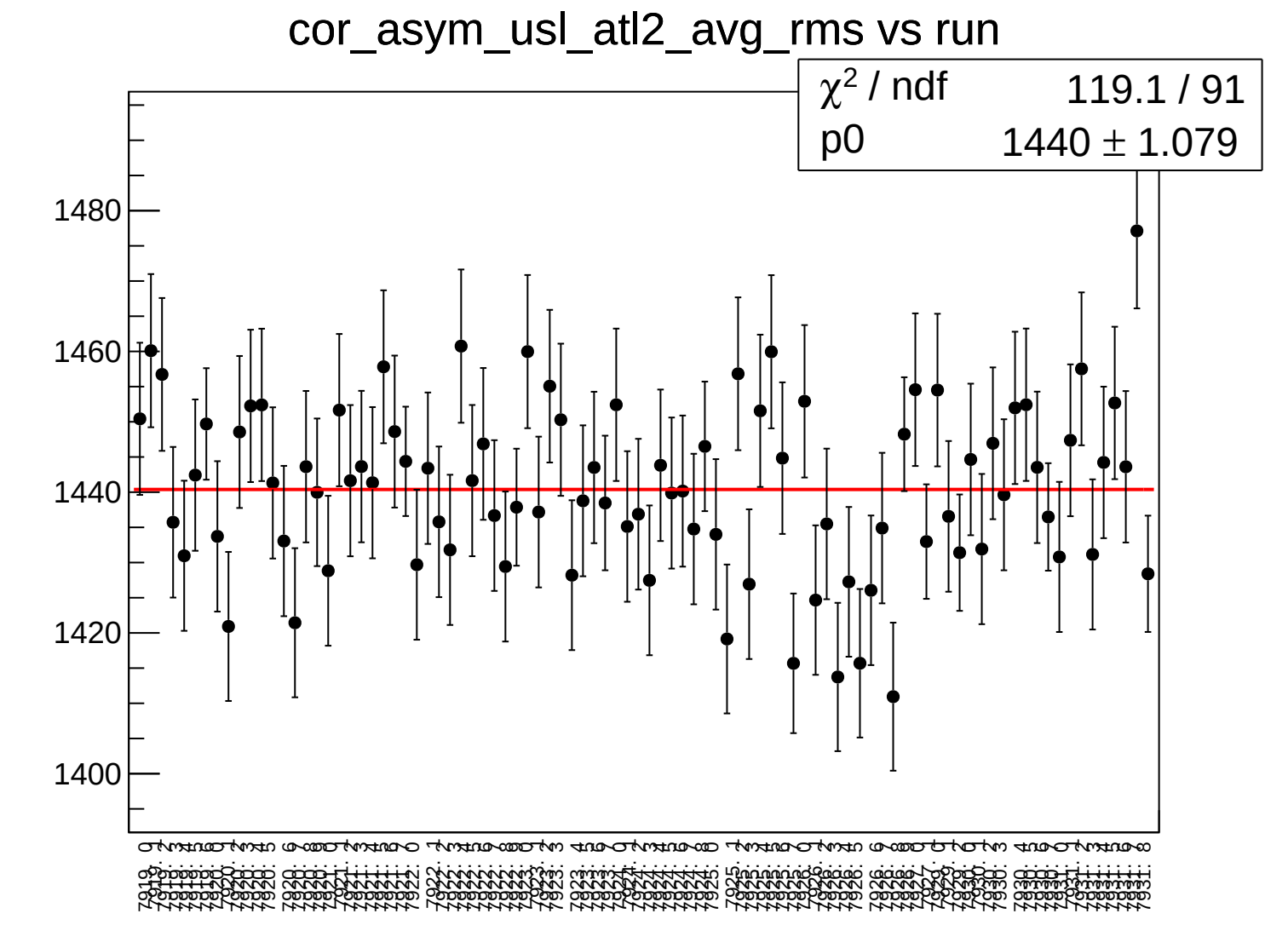

pull1D
Entries 92
Mean 0.003388
Std Dev 0.9475

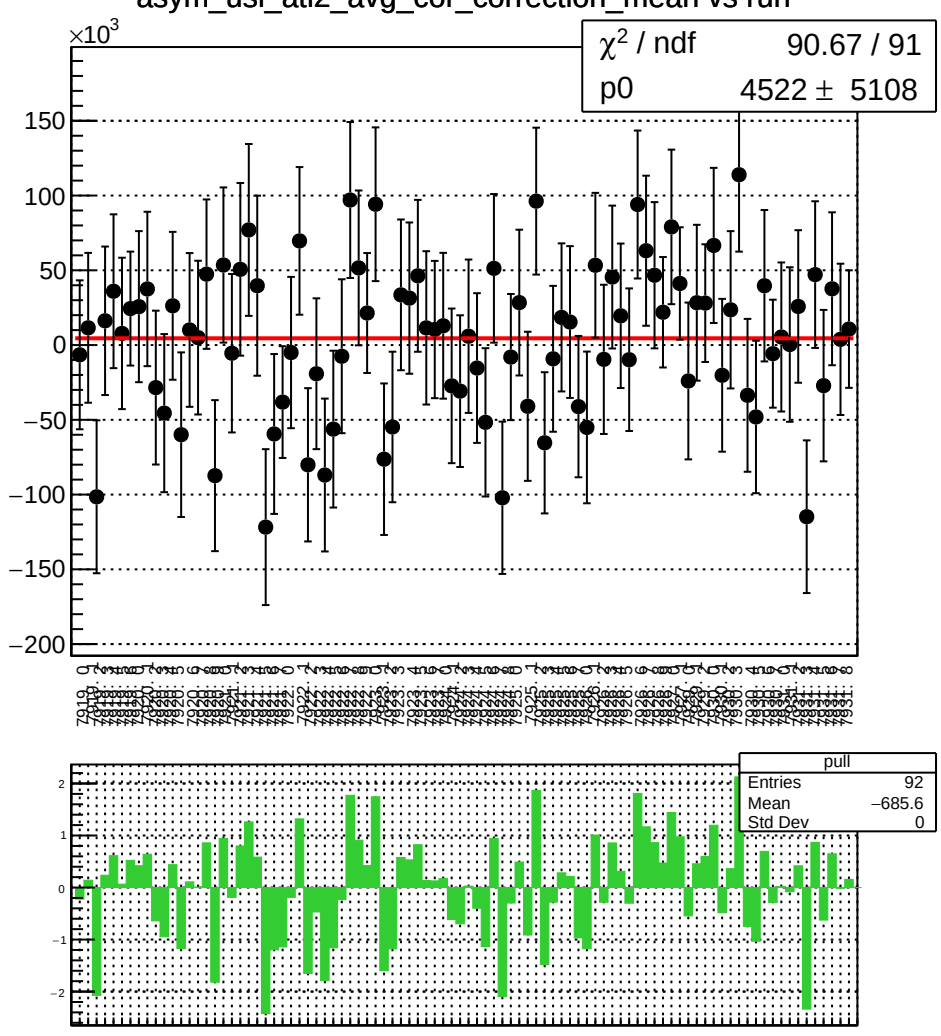

reg_asym_usl_atl2_avg_rms vs run
χ² / ndf 119.1 / 91
p0 1440 ± 1.079
1480
1460
1440
1420
1400

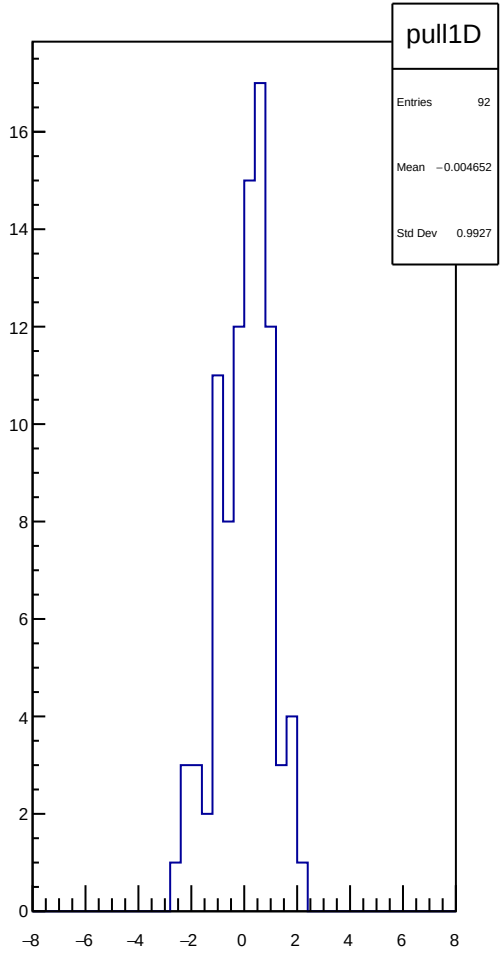

asym_usl_atl2_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 90.67 / 91
p0 4522 ± 5108
150
100
50
0
−50
−100
−150
−200
pull
Entries 92
Mean −685.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.00465
Std Dev 0.9927
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

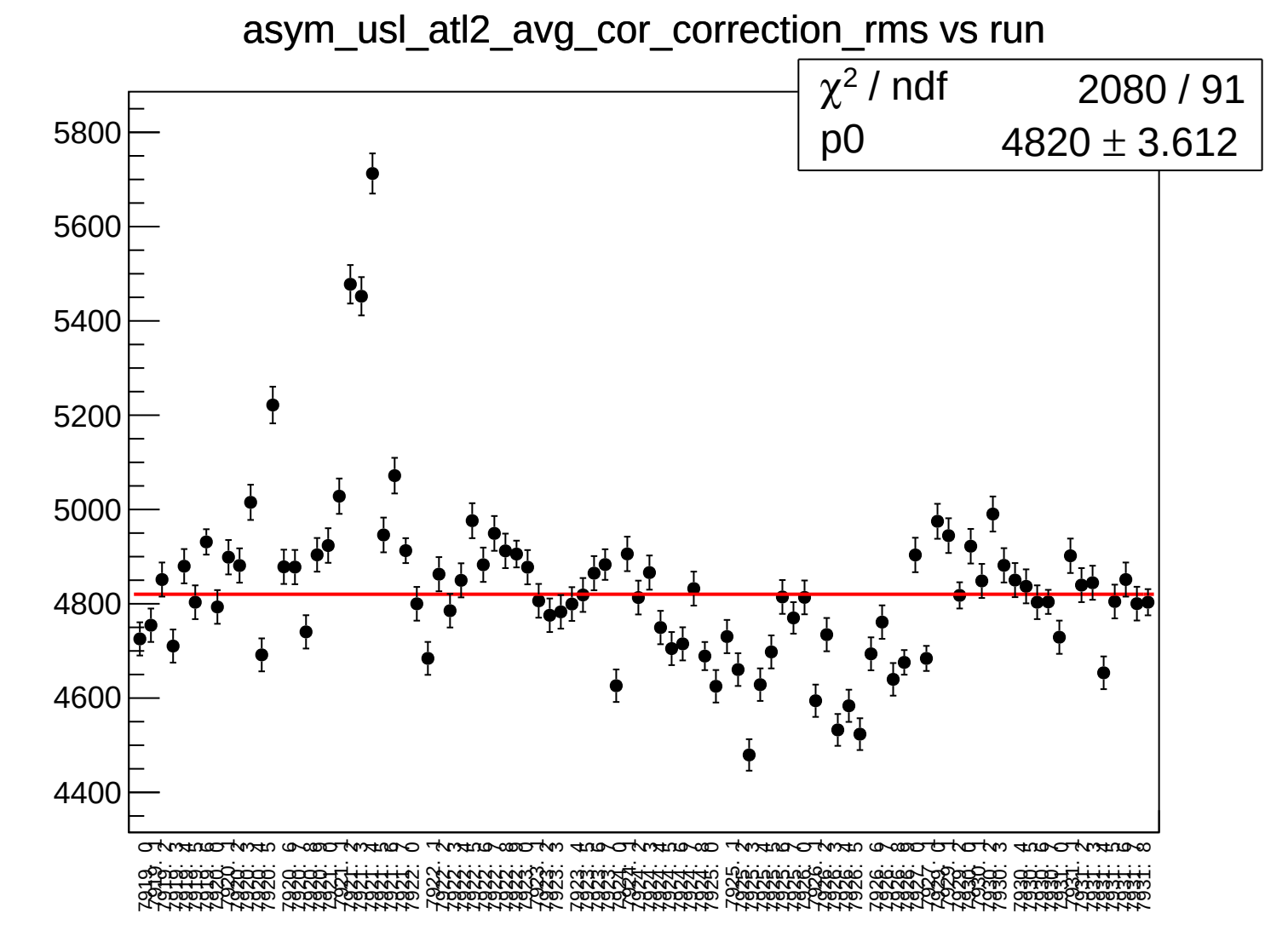

asym_usl_atl2_avg_reg_correction_rms vs run
χ² / ndf 2080 / 91
p0 4820 ± 3.612
5800
5600
5400
5200
5000
4800
4600
4400

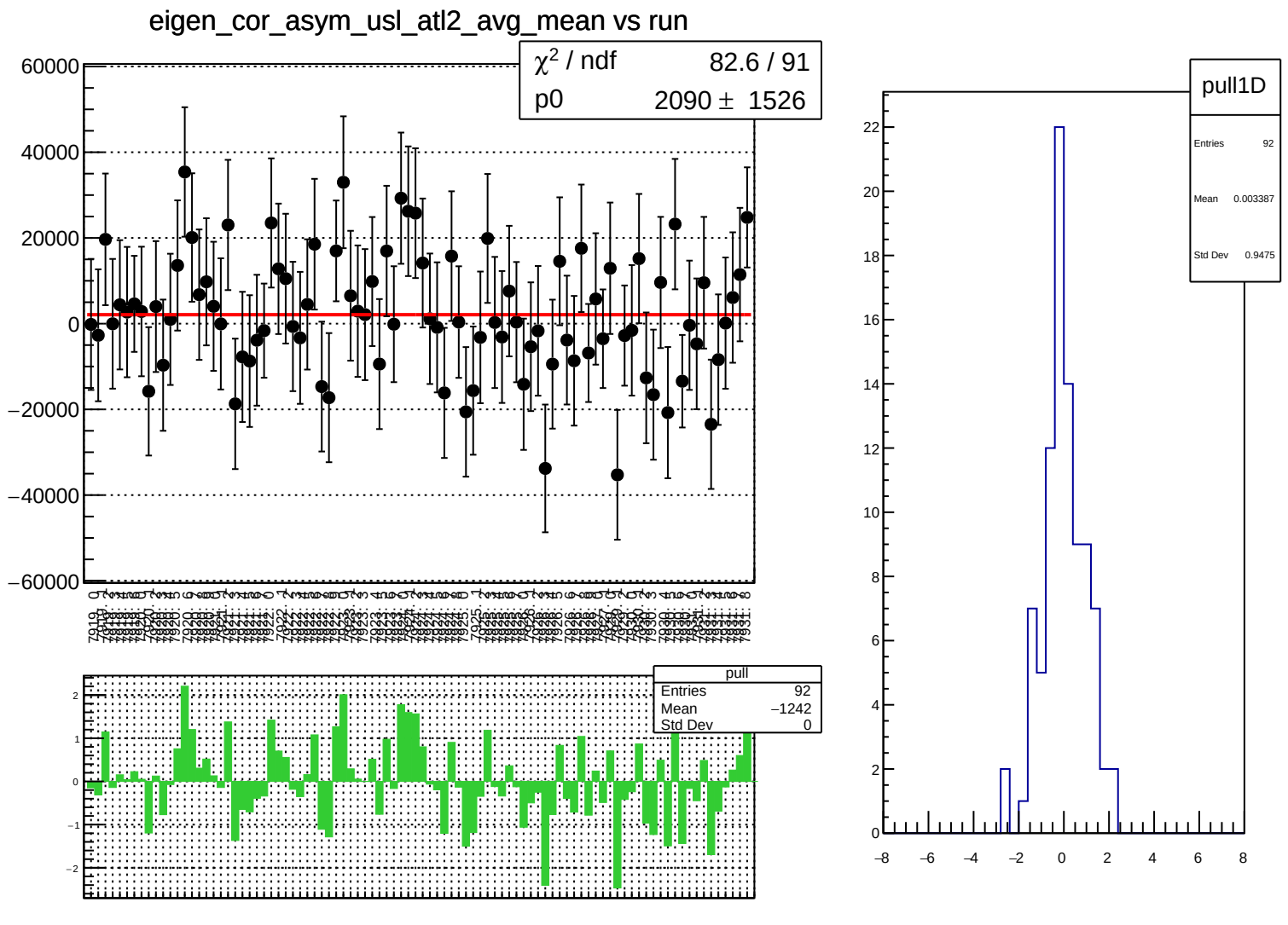

cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 82.6 / 91
p0 2090 ± 1526
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −1242
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.003387
Std Dev 0.9475
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

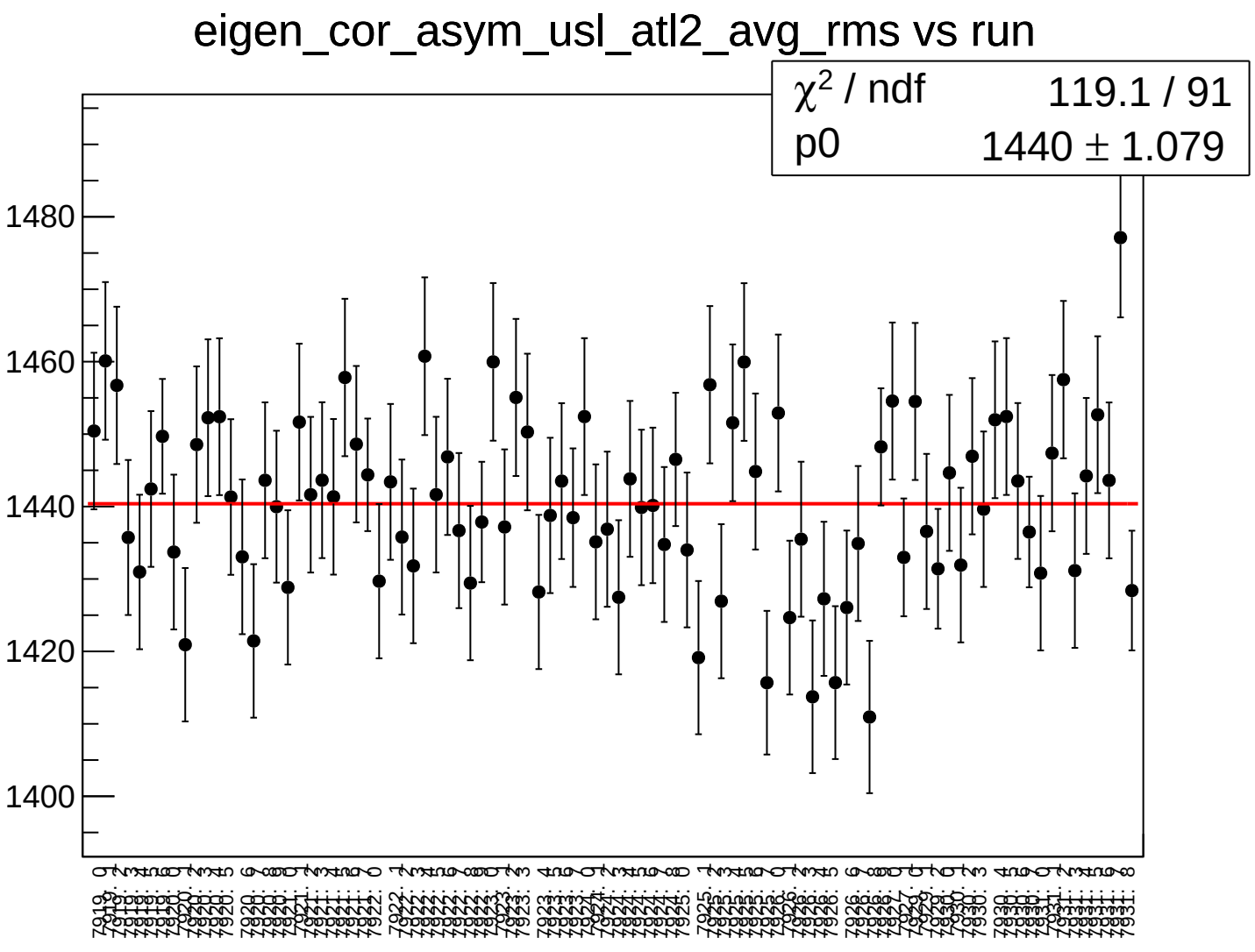

cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 119.1 / 91
p0 1440 ± 1.079
1480
1460
1440
1420
1400

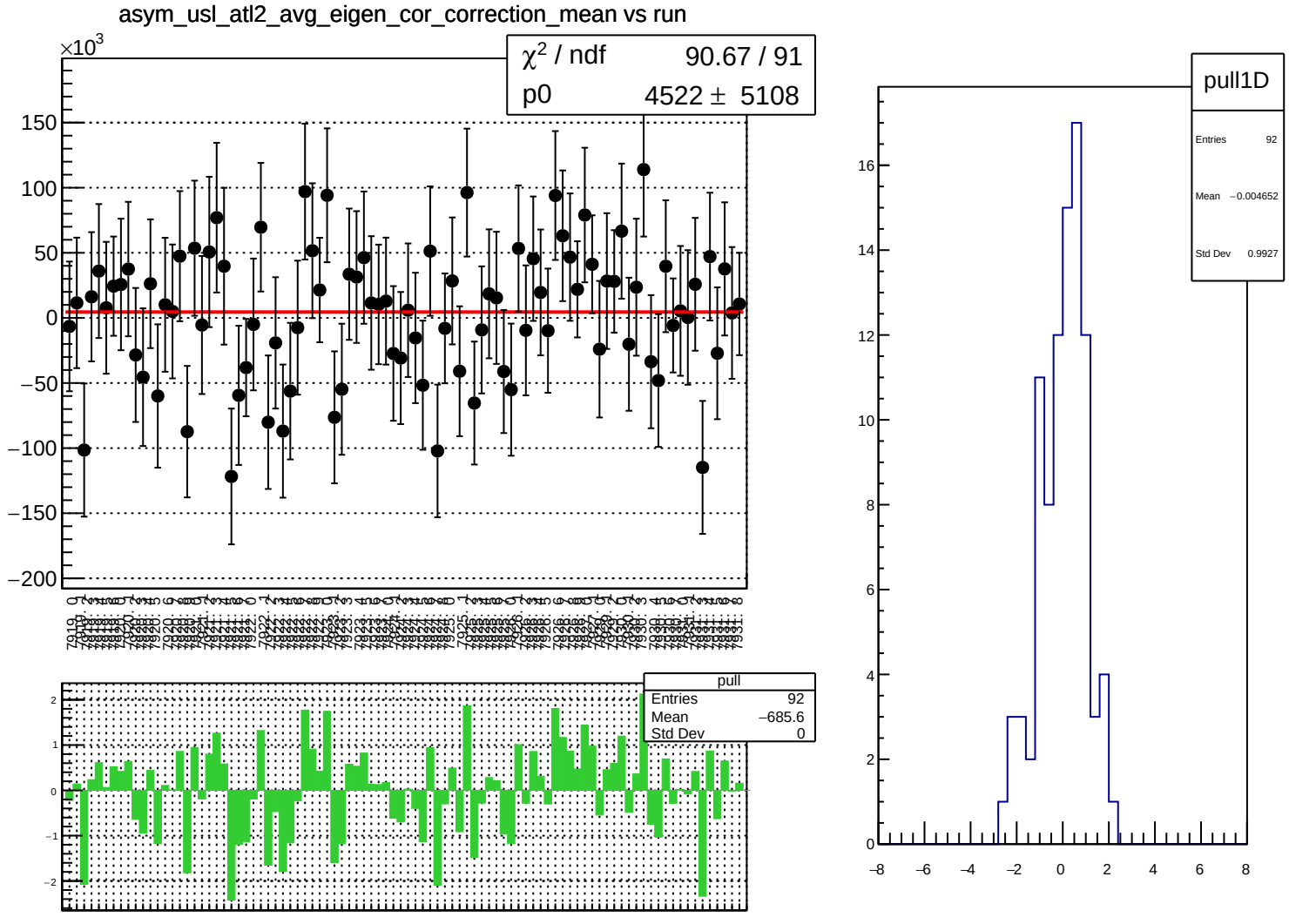

asym_usl_atl2_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 90.67 / 91
p0 4522 ± 5108
150
100
50
0
−50
−100
−150
−200
pull
Entries 92
Mean −685.6
Std Dev 0
2
1
0
−1
−2

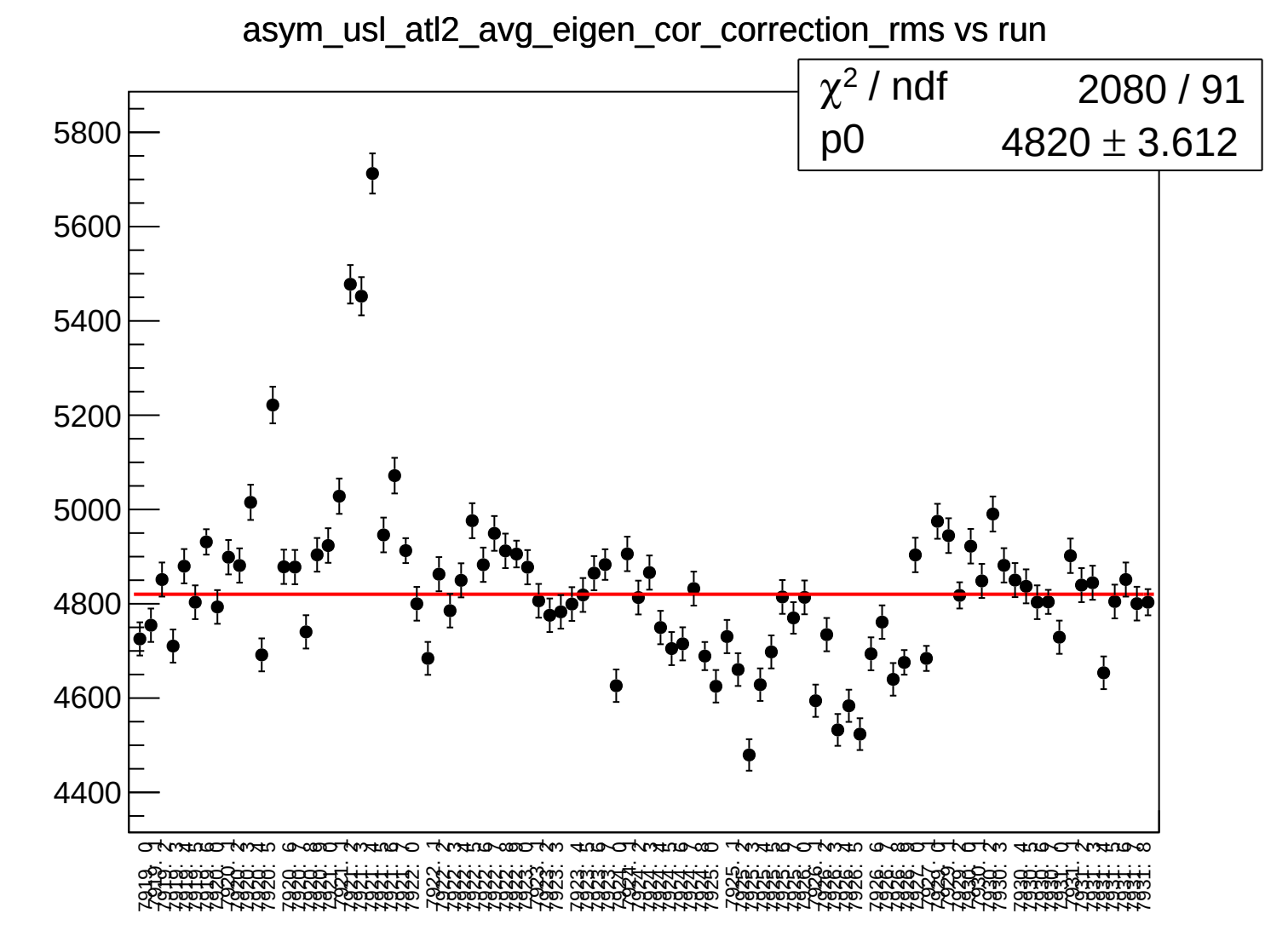

pull1D
Entries 92
Mean −0.004652
Std Dev 0.9927
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

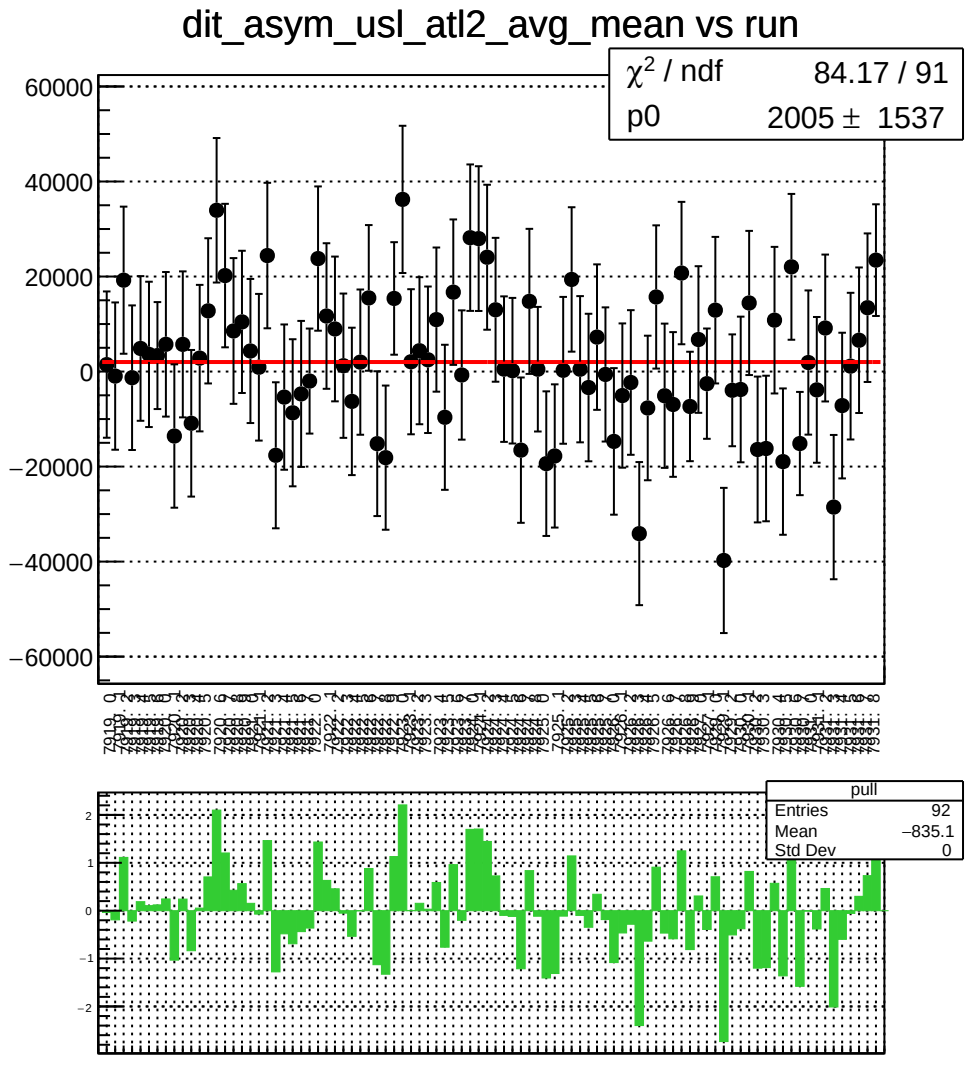

asym_usl_atl2_avg_cor_correction_rms vs run
χ² / ndf 2080 / 91
p0 4820 ± 3.612
5800
5600
5400
5200
5000
4800
4600
4400

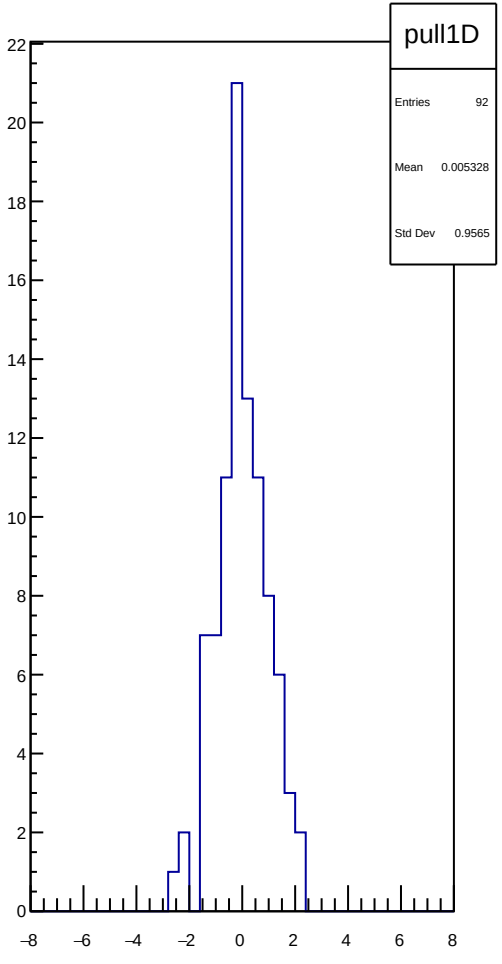

eigen_cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 82.6 / 91
p0 2090 ± 1526
pull
Entries 92
Mean −1242
Std Dev 0
pull1D
Entries 92
Mean 0.003387
Std Dev 0.9475

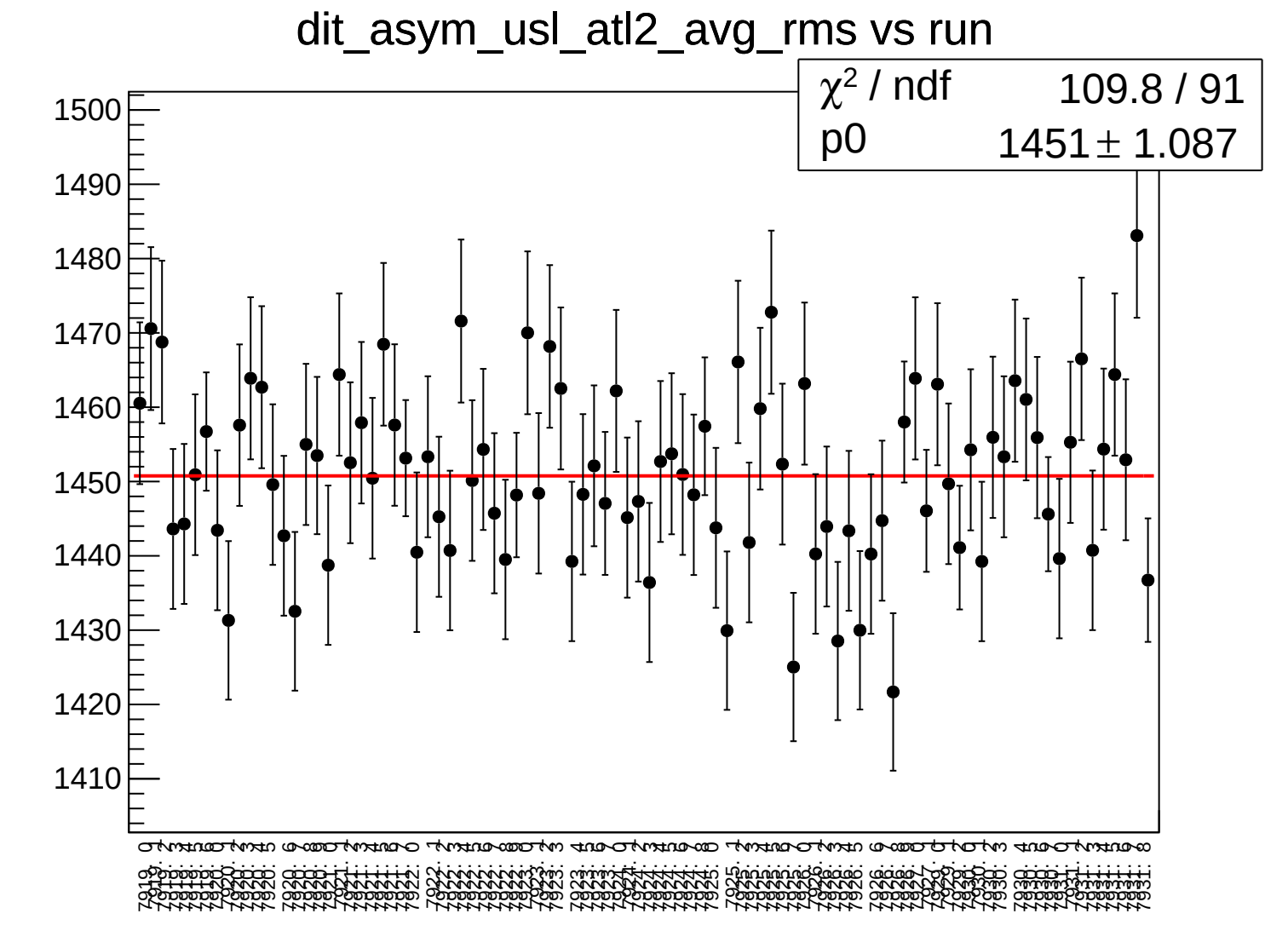

eigen_cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 119.1 / 91
p0 1440 ± 1.079
1480
1460
1440
1420
1400

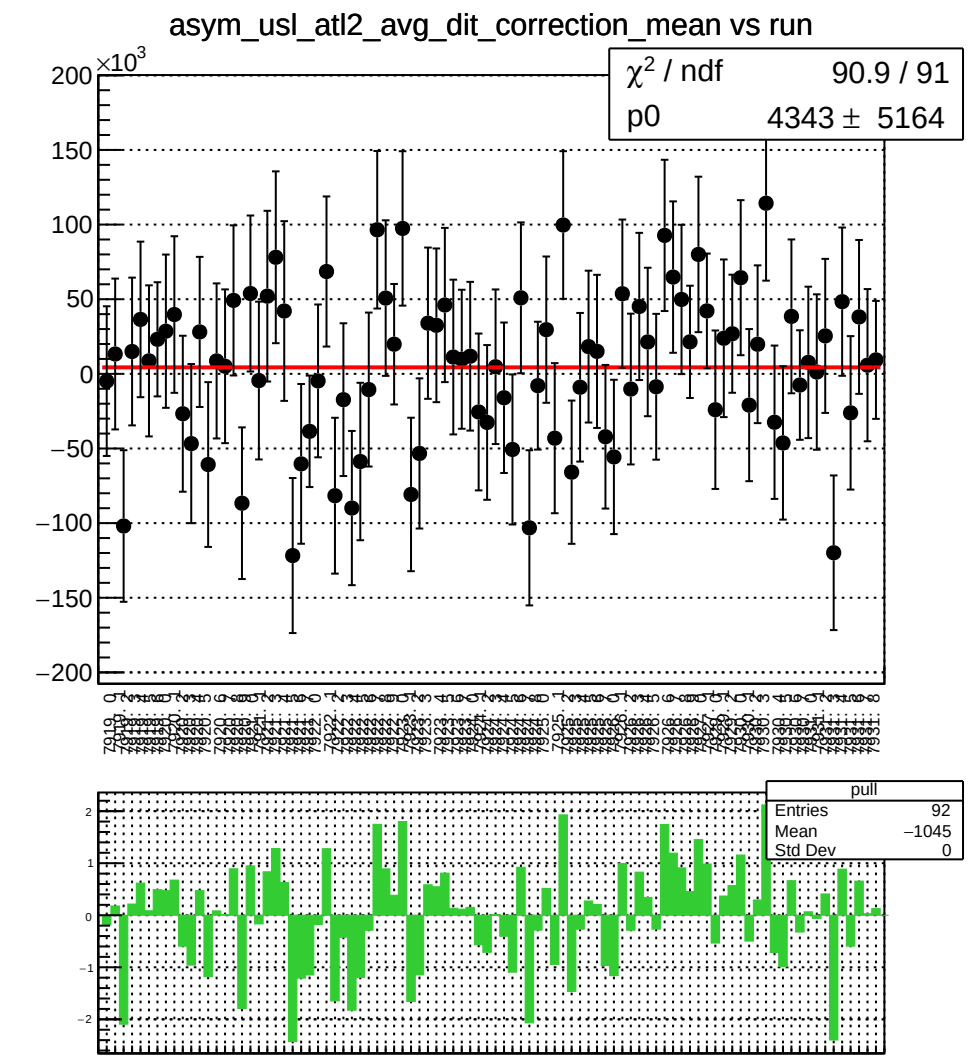

asym_usl_atl2_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 90.67 / 91
p0 4522 ± 5108
150
100
50
0
−50
−100
−150
−200
pull
Entries 92
Mean −685.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.004652
Std Dev 0.9927
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

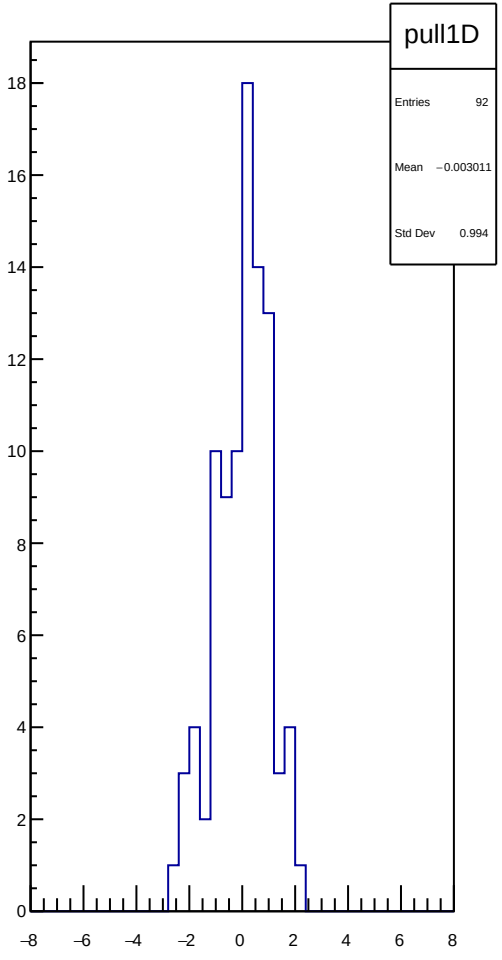

asym_usl_atl2_avg_eigen_cor_correction_rms vs run
χ² / ndf 2080 / 91
p0 4820 ± 3.612
5800
5600
5400
5200
5000
4800
4600
4400

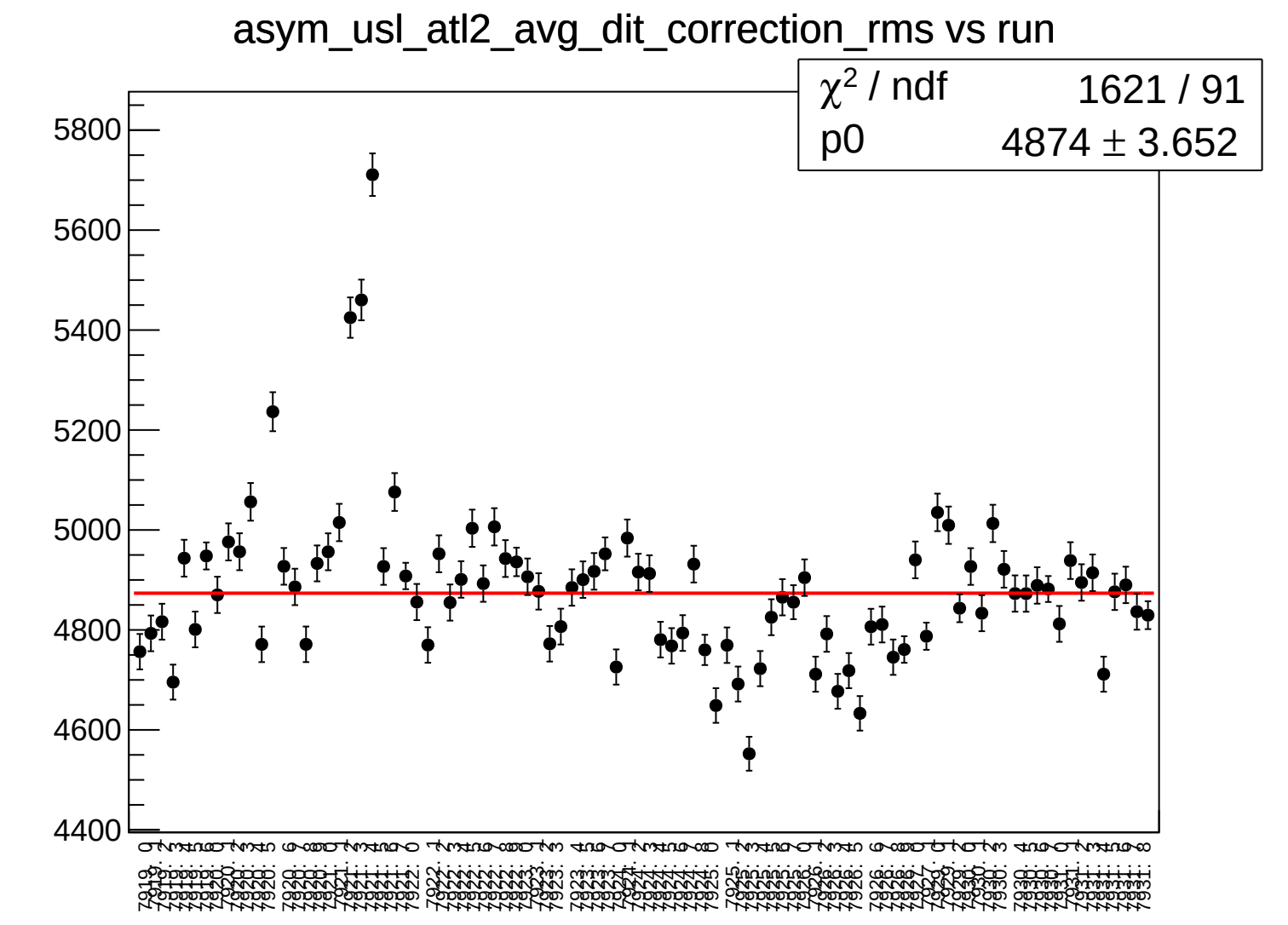

dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 84.17 / 91
p0 2005 ± 1537
pull
Entries 92
Mean −835.1
Std Dev 0

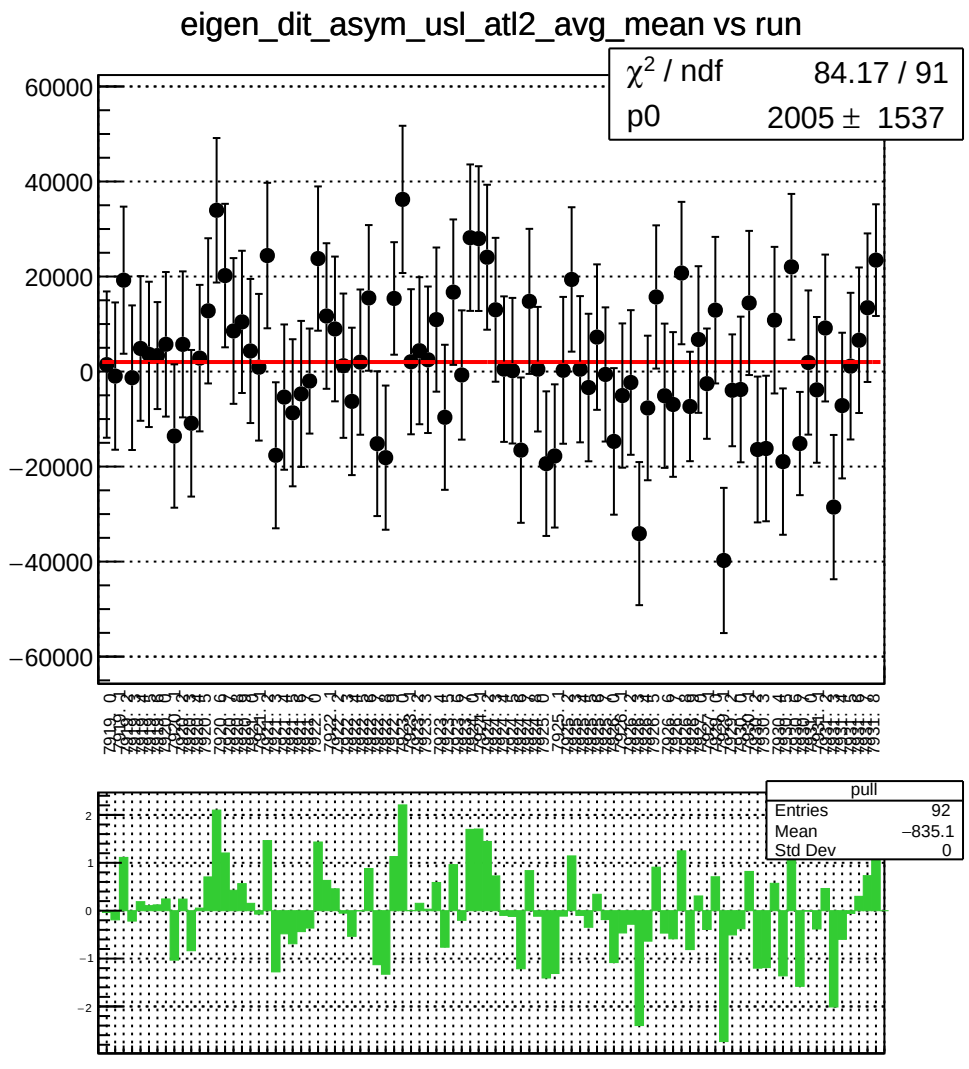

pull1D
Entries 92
Mean 0.005328
Std Dev 0.9565

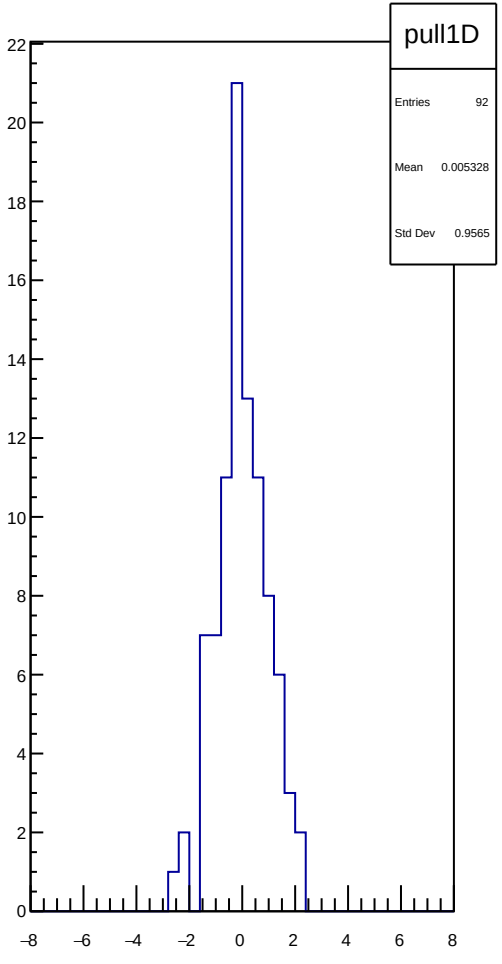

dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 109.8 / 91
p0 1451 ± 1.087
1500
1490
1480
1470
1460
1450
1440
1430
1420
1410

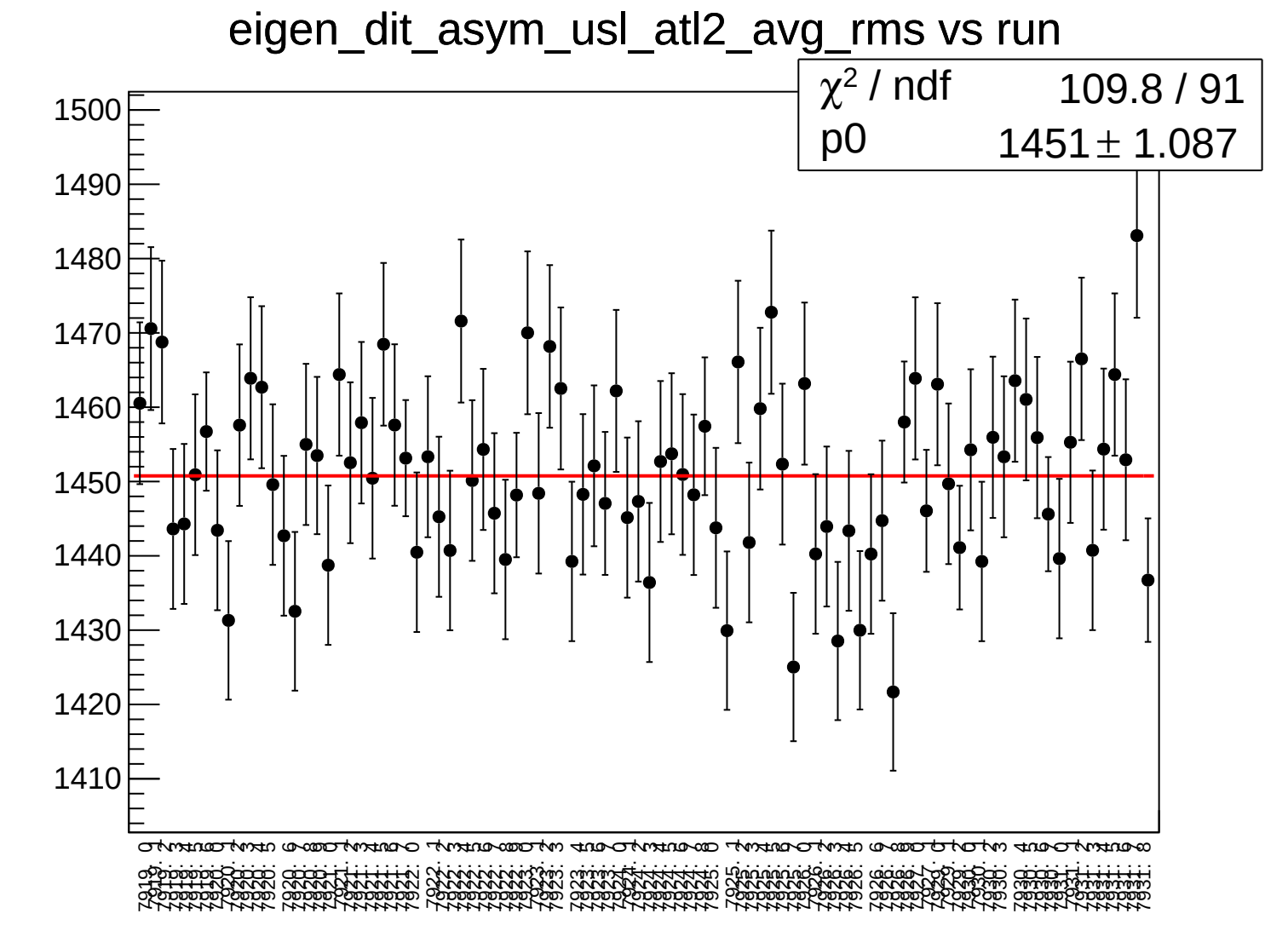

asym_usl_atl2_avg_dit_correction_mean vs run
χ² / ndf 90.9 / 91
p0 4343 ± 5164
×10³
pull
Entries 92
Mean −1045
Std Dev 0

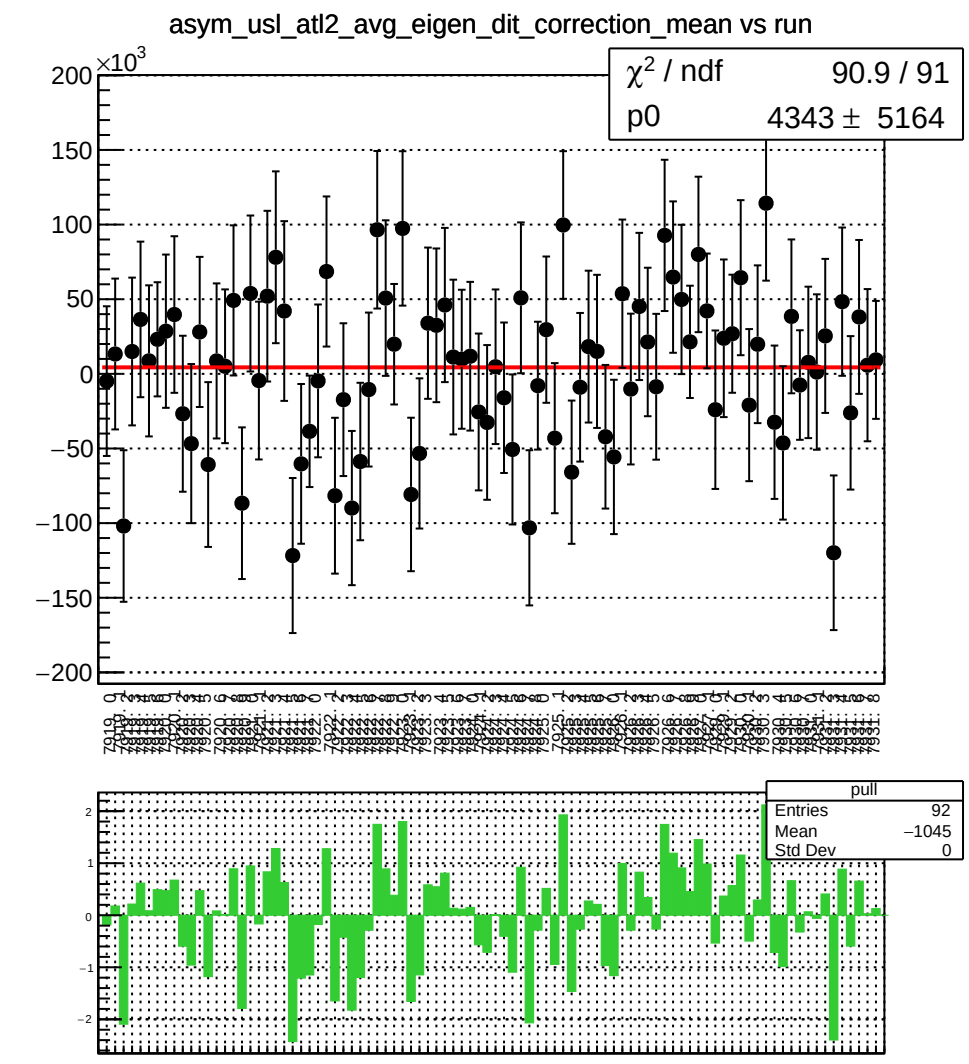

pull1D
Entries 92
Mean −0.003011
Std Dev 0.994

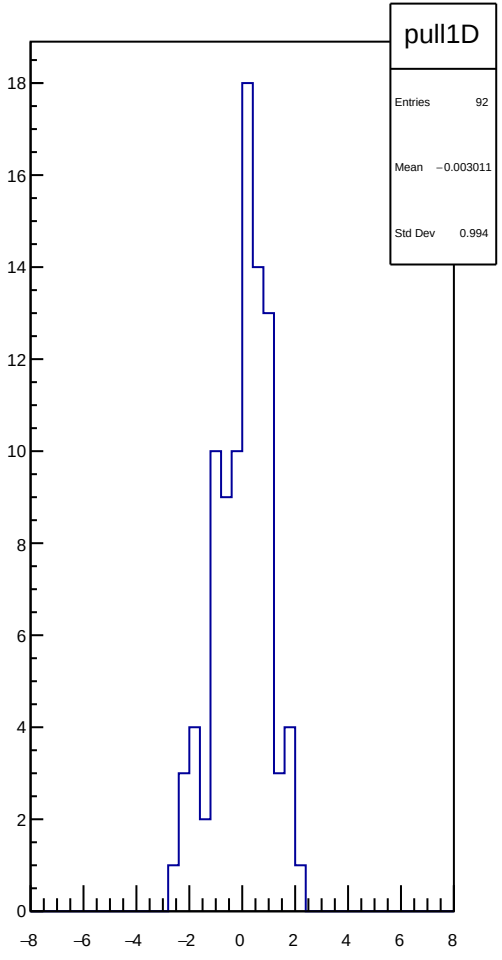

asym_usl_atl2_avg_dit_correction_rms vs run
χ² / ndf 1621 / 91
p0 4874 ± 3.652
5800
5600
5400
5200
5000
4800
4600
4400

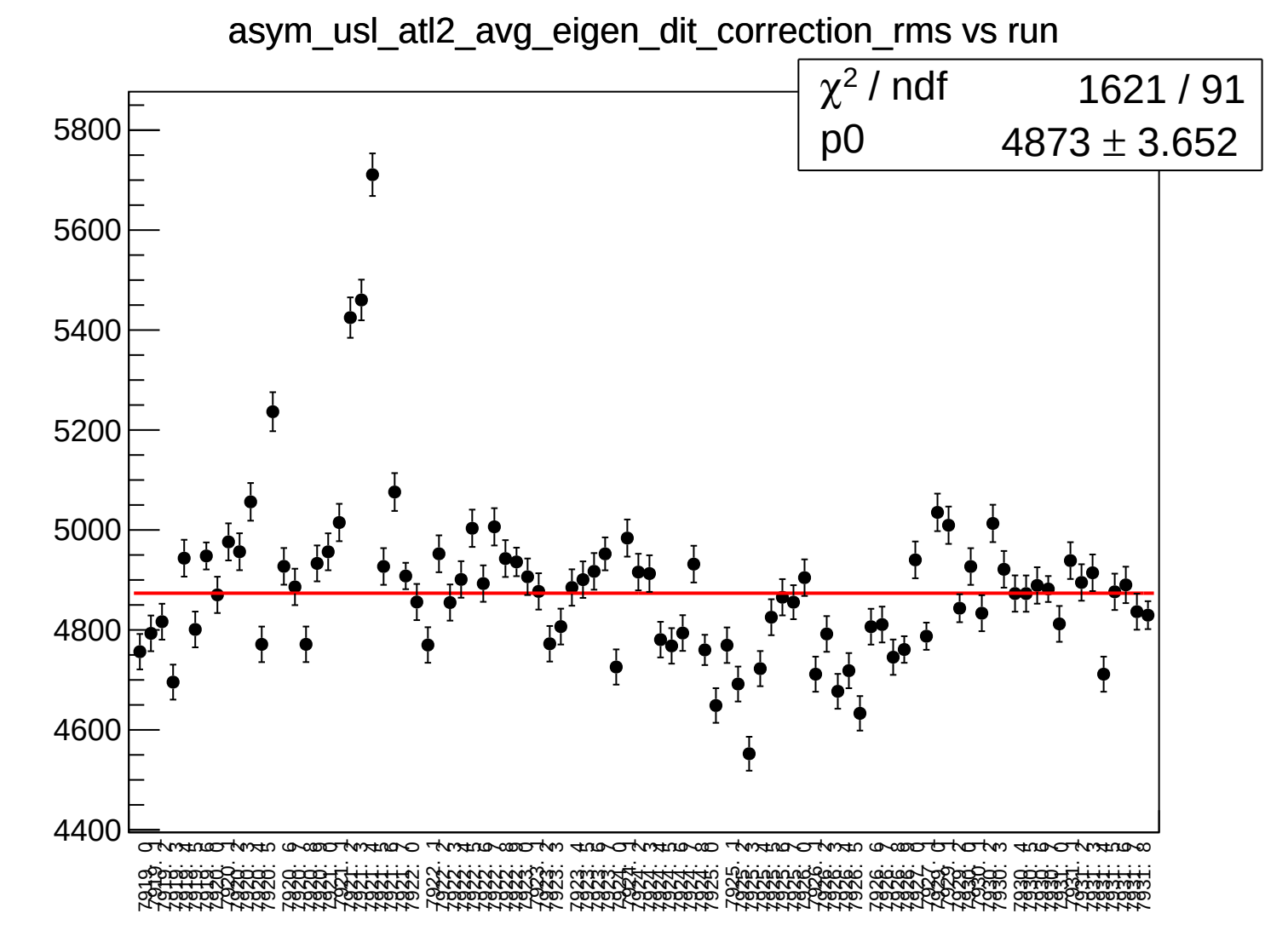

eigen_dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 84.17 / 91
p0 2005 ± 1537
pull
Entries 92
Mean −835.1
Std Dev 0

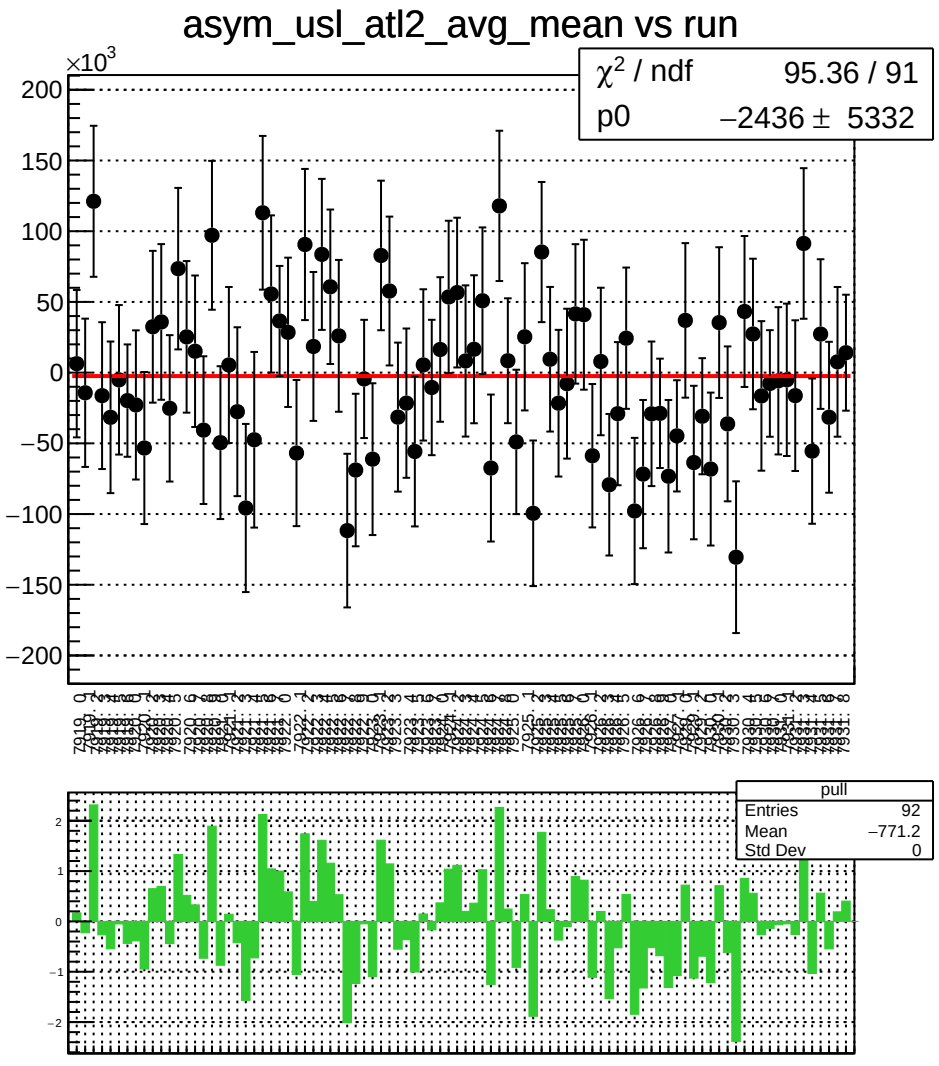

pull1D
Entries 92
Mean 0.005328
Std Dev 0.9565

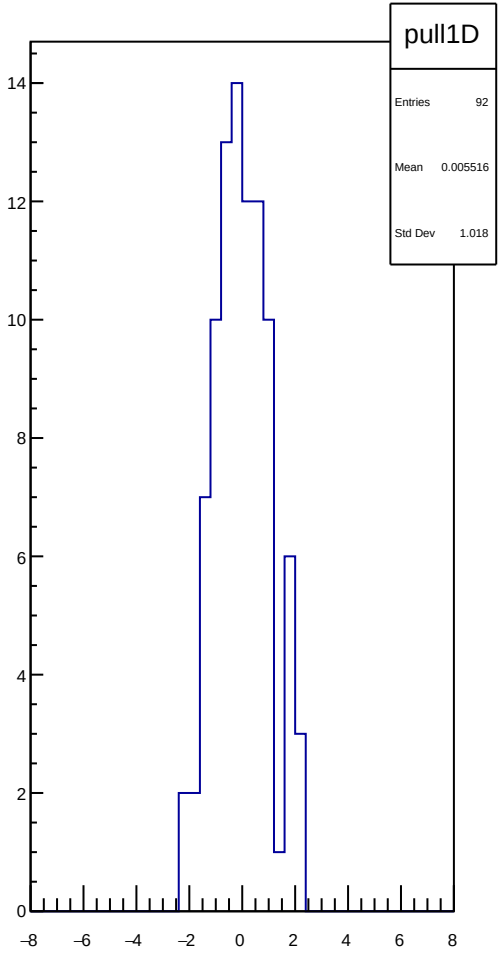

eigen_dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 109.8 / 91
p0 1451 ± 1.087
1500
1490
1480
1470
1460
1450
1440
1430
1420
1410

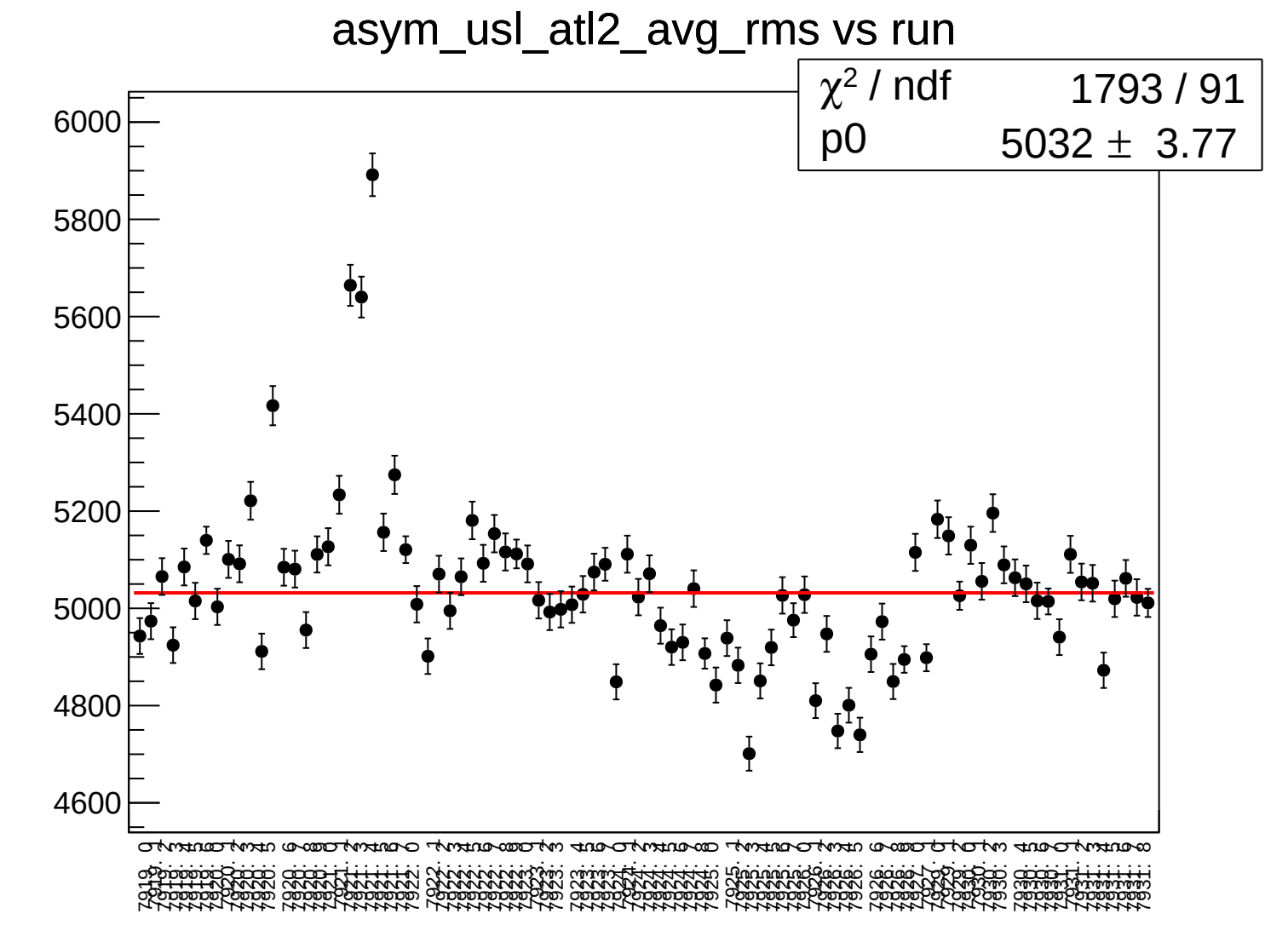

asym_usl_atl2_avg_eigen_dit_correction_mean vs run
χ² / ndf 90.9 / 91
p0 4343 ± 5164
×10³
pull
Entries 92
Mean −1045
Std Dev 0

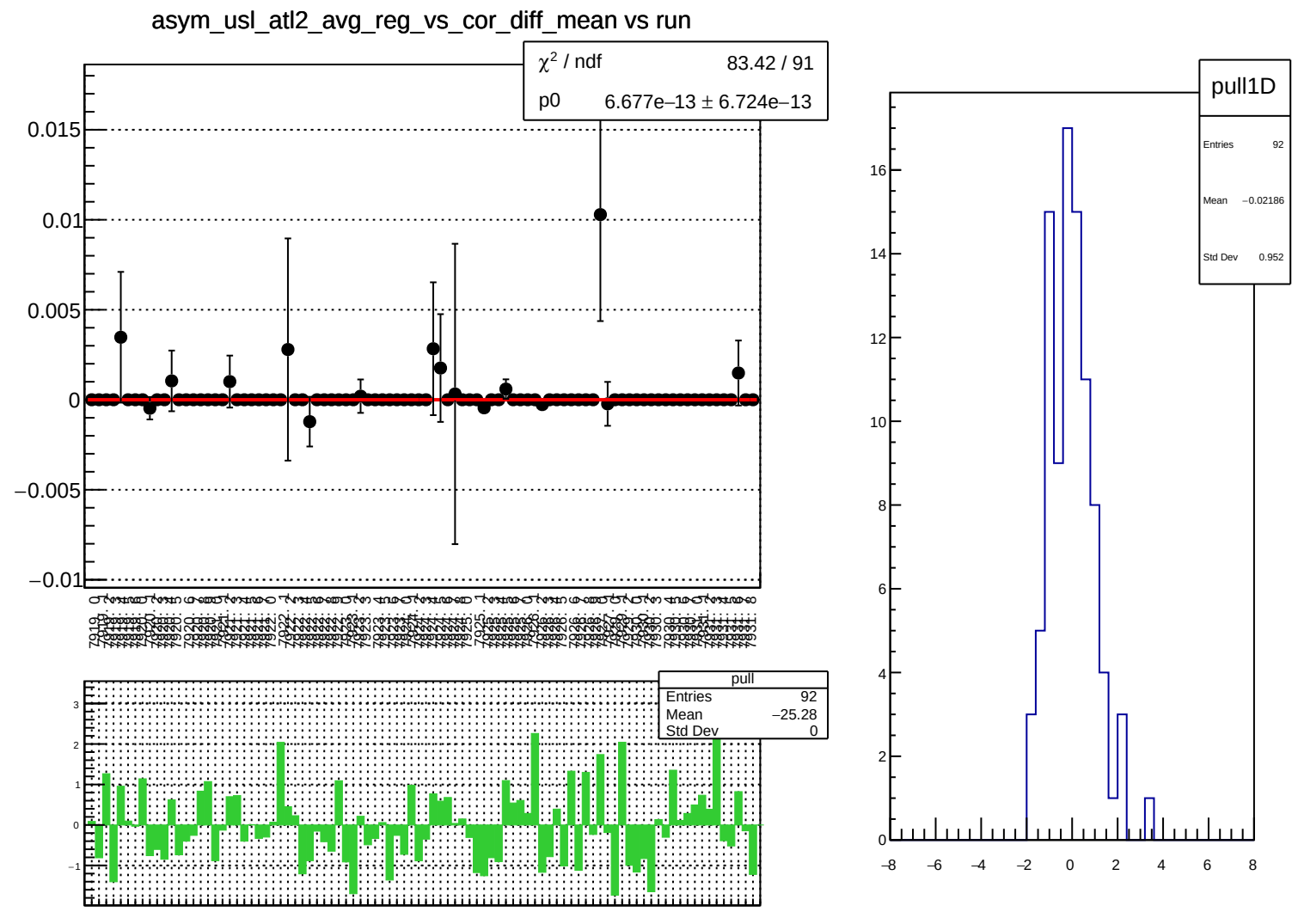

pull1D
Entries 92
Mean −0.003011
Std Dev 0.994

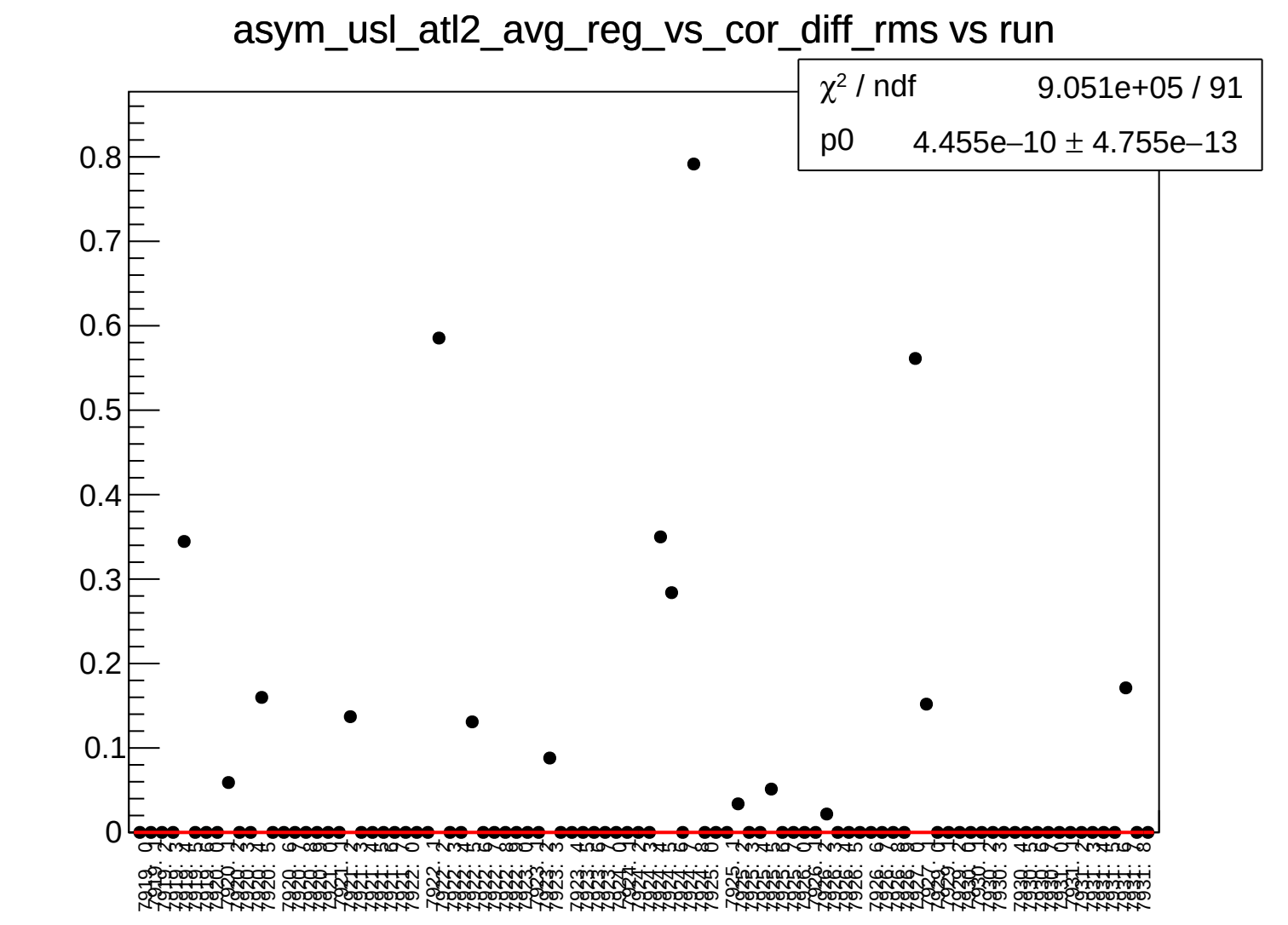

asym_usl_atl2_avg_eigen_dit_correction_rms vs run
χ² / ndf 1621 / 91
p0 4873 ± 3.652
5800
5600
5400
5200
5000
4800
4600
4400

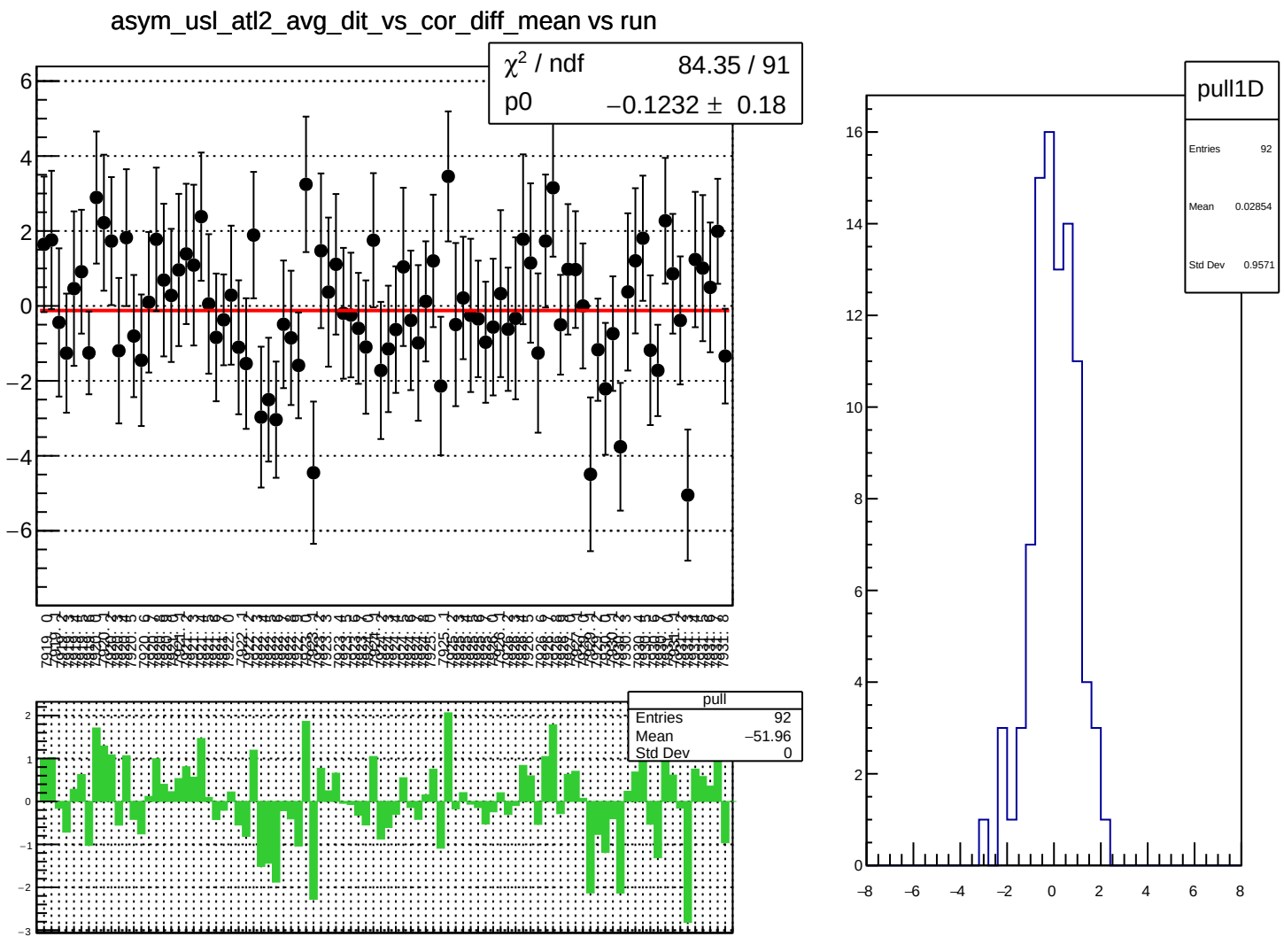

asym_usl_atl2_avg_mean vs run
×10^3
χ² / ndf 95.36 / 91
p0 −2436 ± 5332
pull
Entries 92
Mean −771.2
Std Dev 0

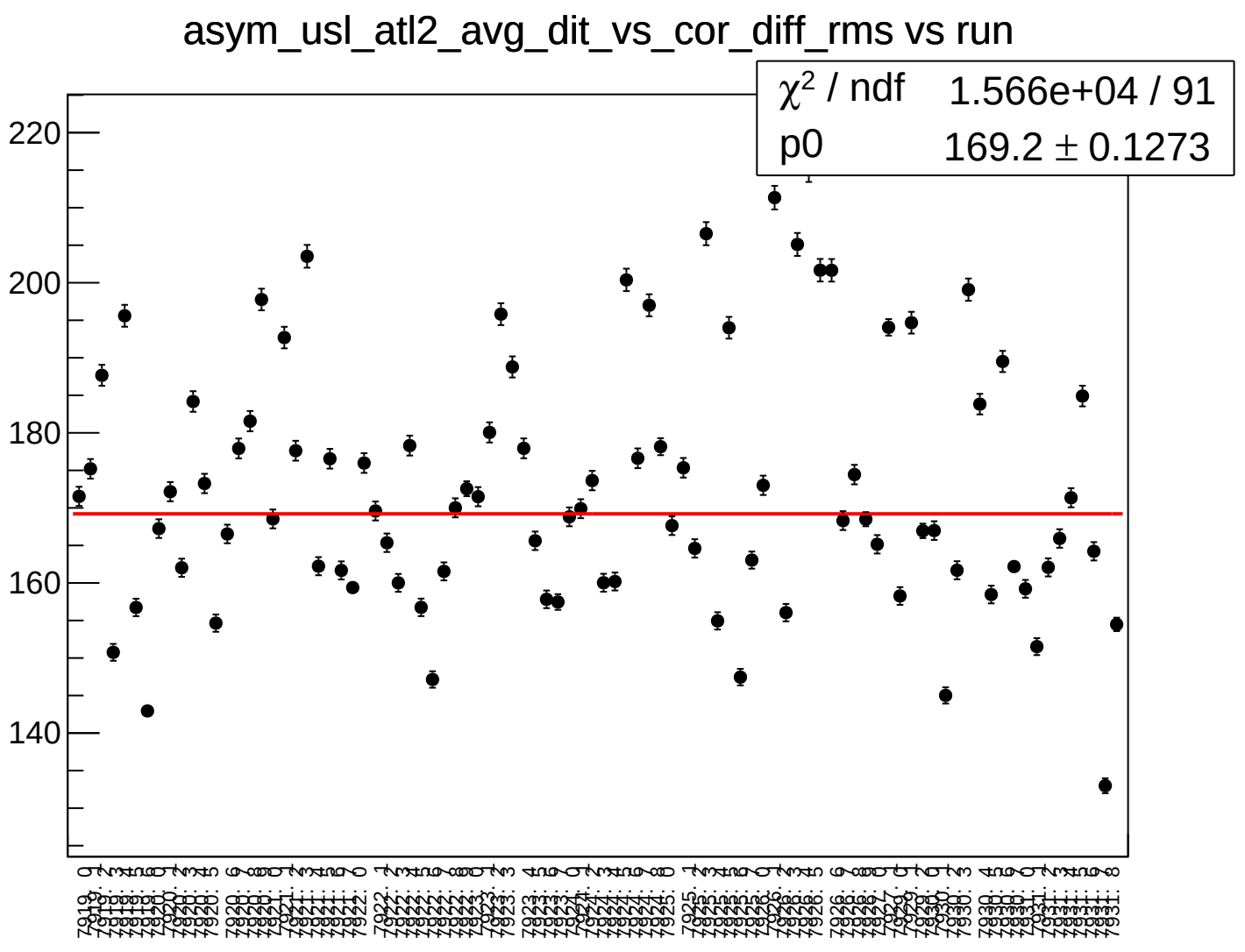

pull1D
Entries 92
Mean 0.005516
Std Dev 1.018

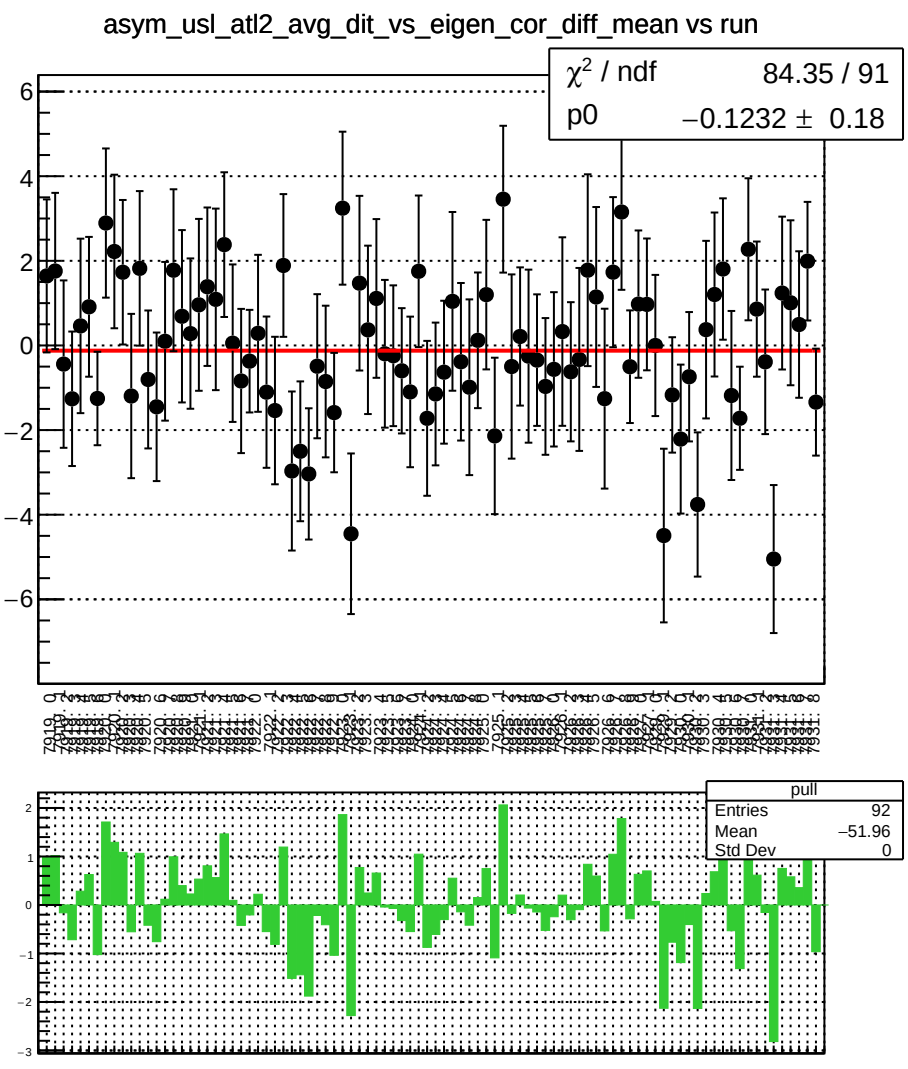

asym_usl_atl2_avg_rms vs run
χ² / ndf 1793 / 91
p0 5032 ± 3.77
6000
5800
5600
5400
5200
5000
4800
4600

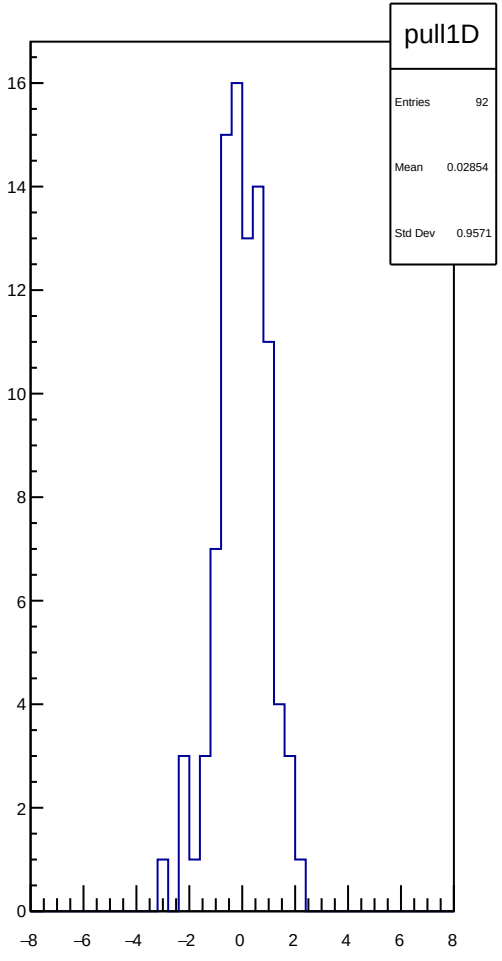

asym_usl_atl2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 83.42 / 91
p0 6.677e−13 ± 6.724e−13
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 92
Mean −25.28
Std Dev 0
3
2
1
0
−1
pull1D
Entries 92
Mean −0.02186
Std Dev 0.952
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

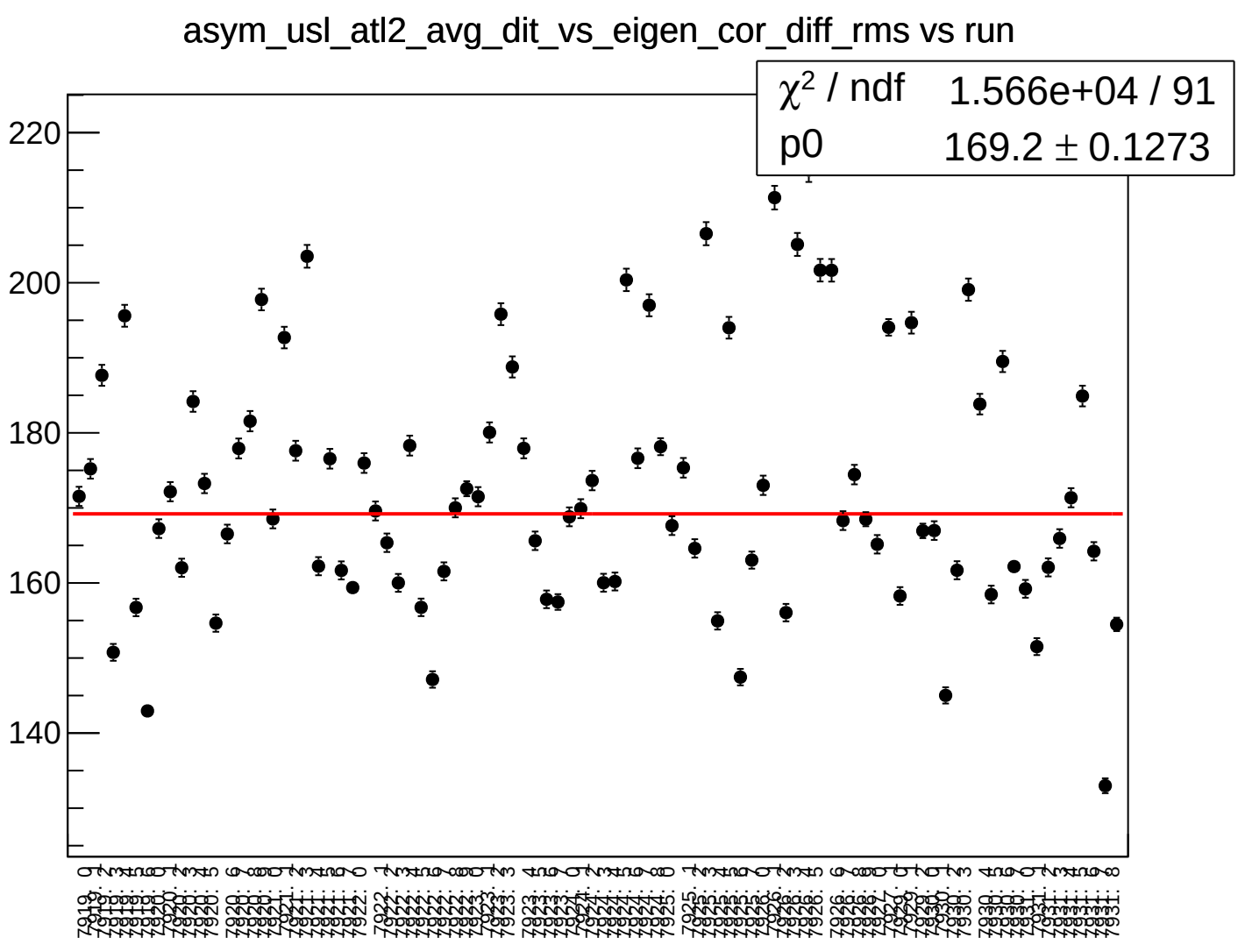

asym_usl_atl2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.051e+05 / 91
p0 4.455e−10 ± 4.755e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

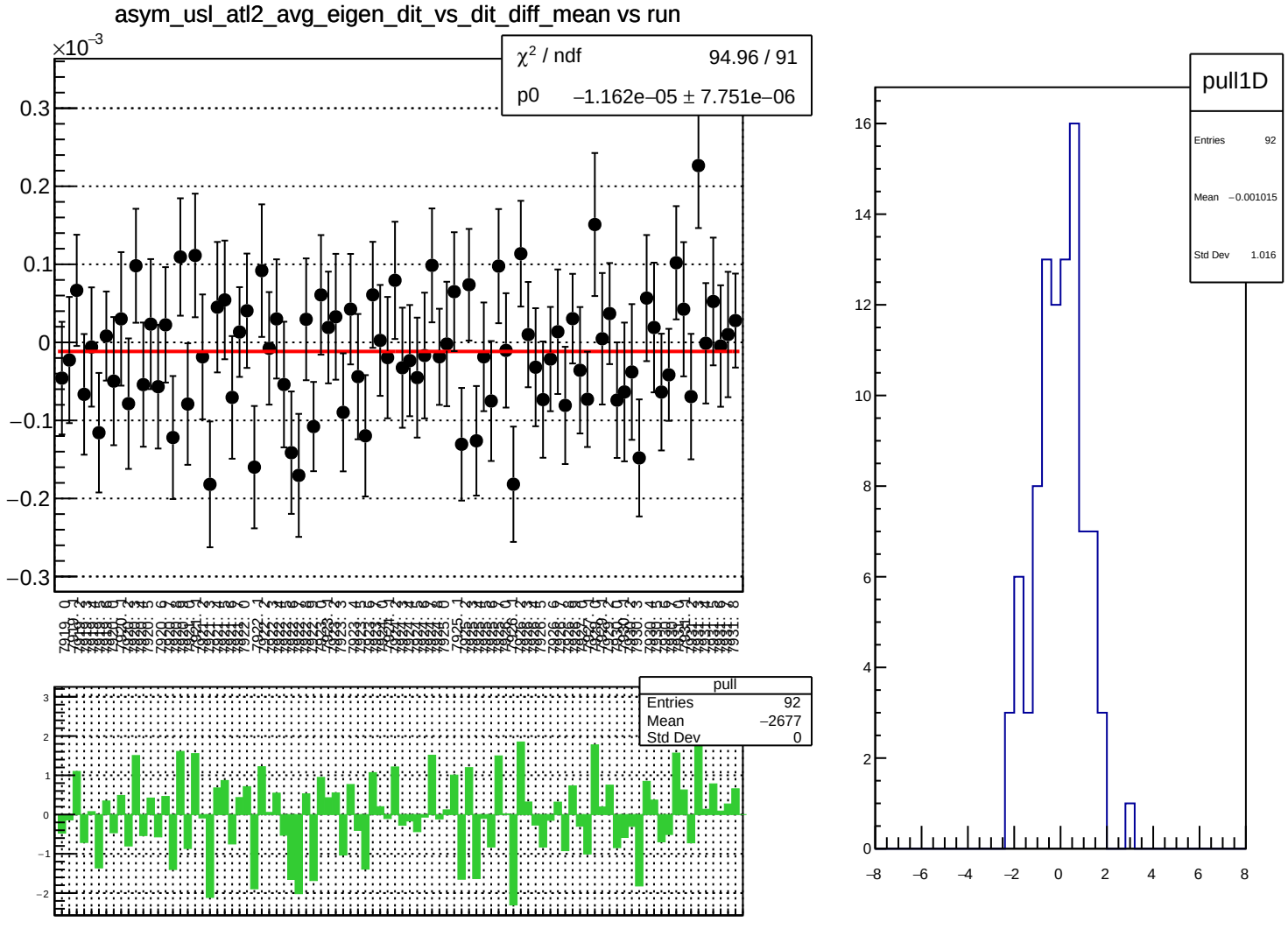

asym_usl_atl2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 84.35 / 91
p0 −0.1232 ± 0.18
pull
Entries 92
Mean −51.96
Std Dev 0
pull1D
Entries 92
Mean 0.02854
Std Dev 0.9571

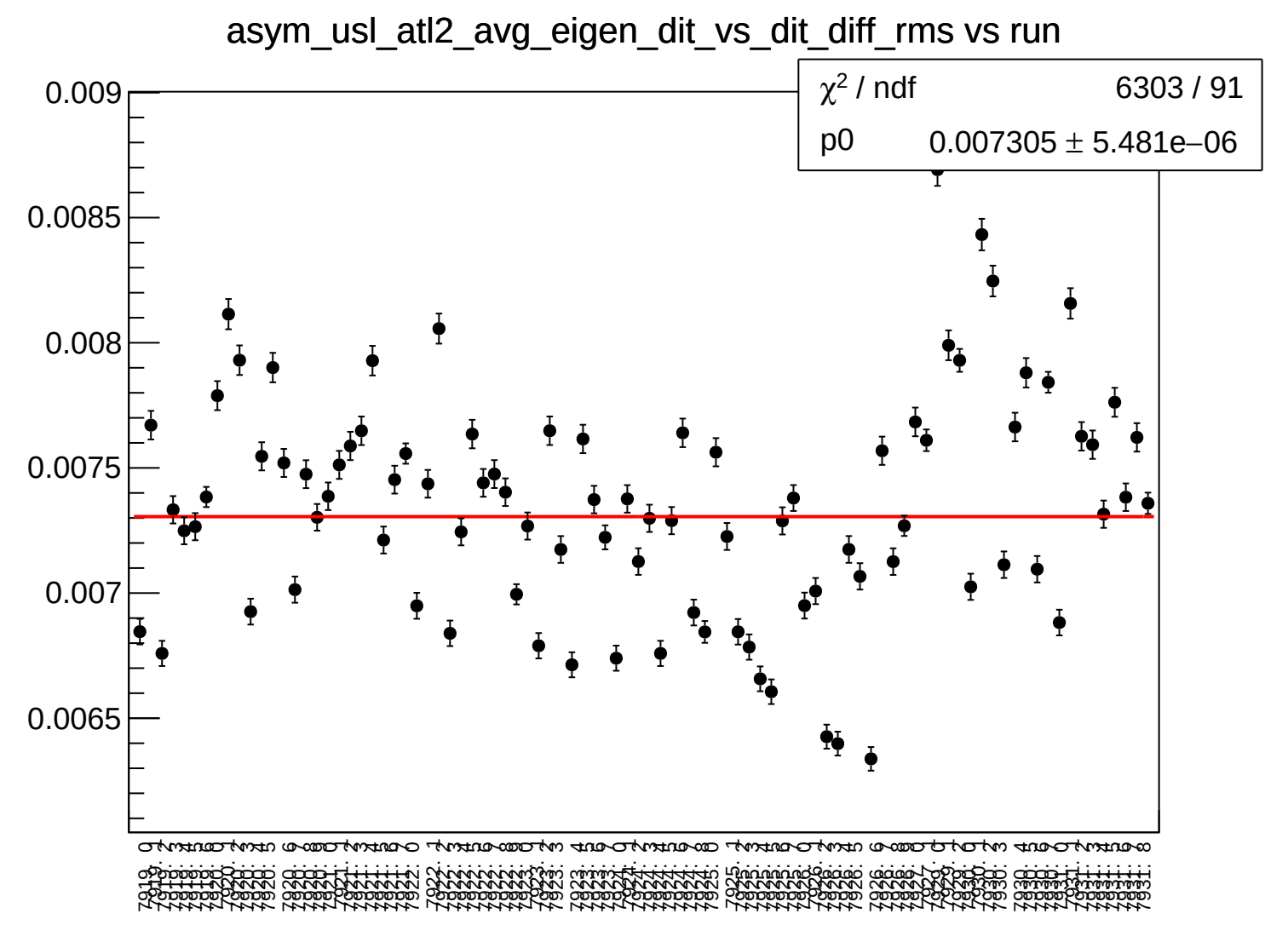

asym_usl_atl2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.566e+04 / 91
p0 169.2 ± 0.1273
220
200
180
160
140

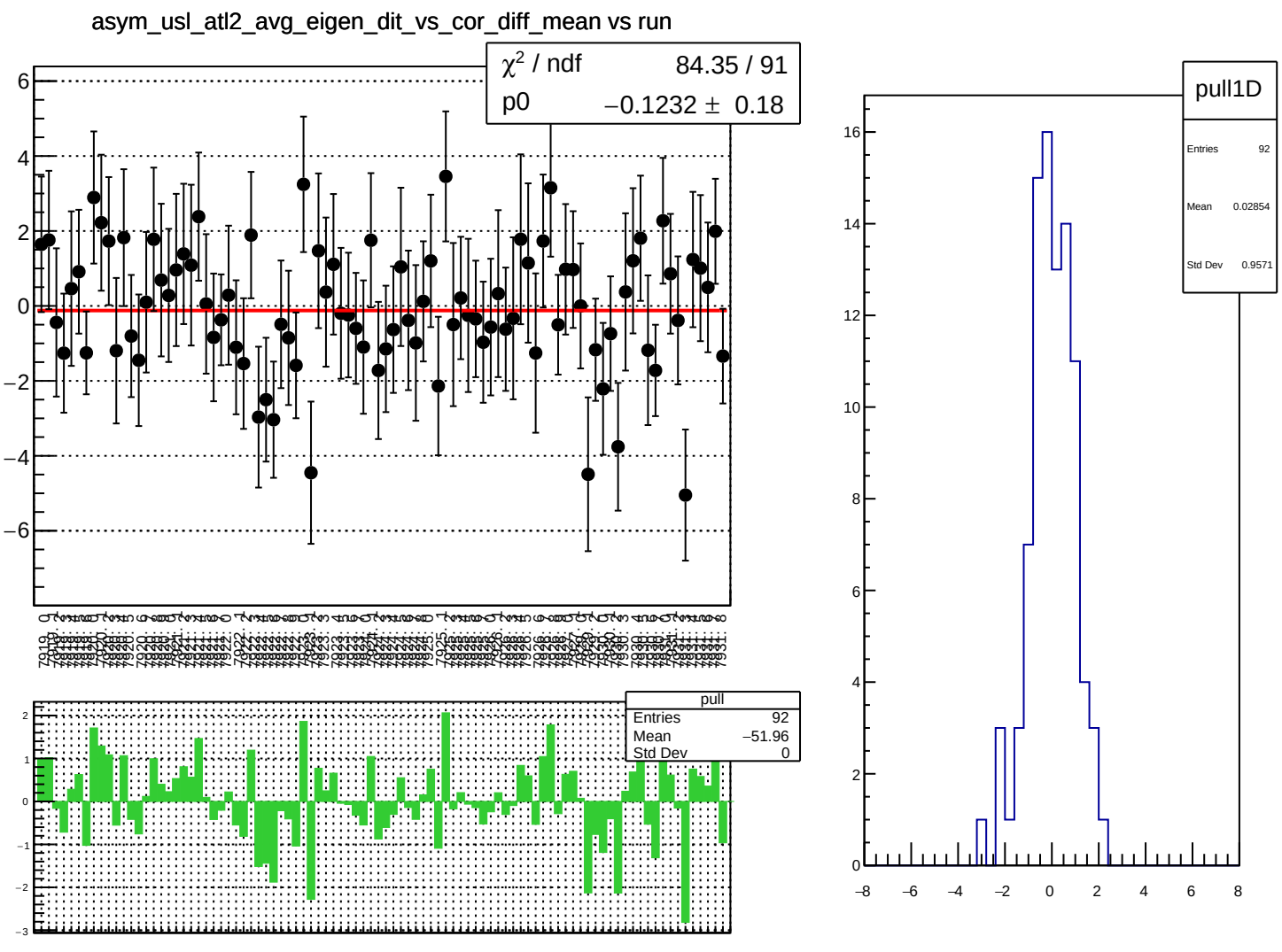

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.35 / 91
p0 −0.1232 ± 0.18
pull
Entries 92
Mean −51.96
Std Dev 0

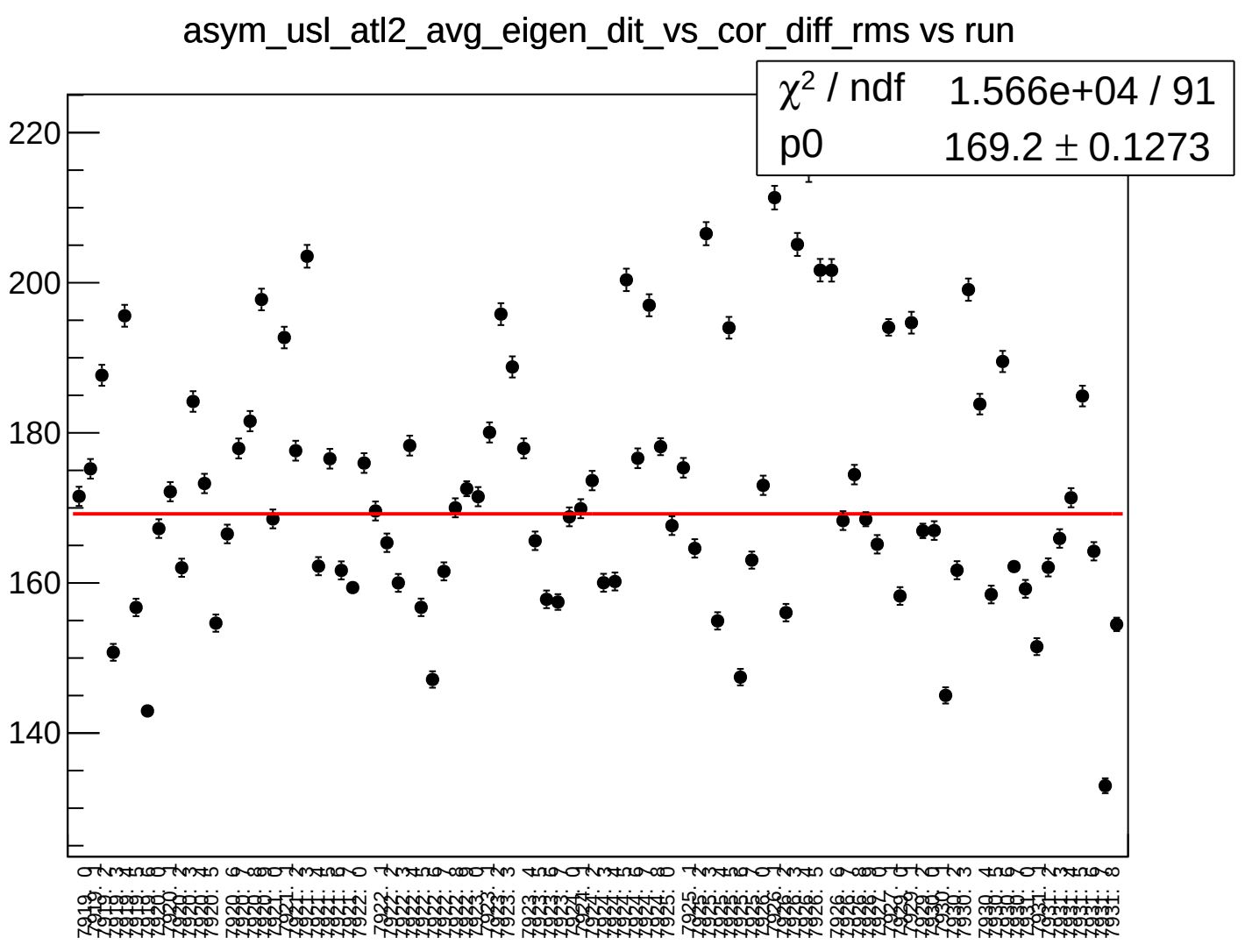

pull1D
Entries 92
Mean 0.02854
Std Dev 0.9571

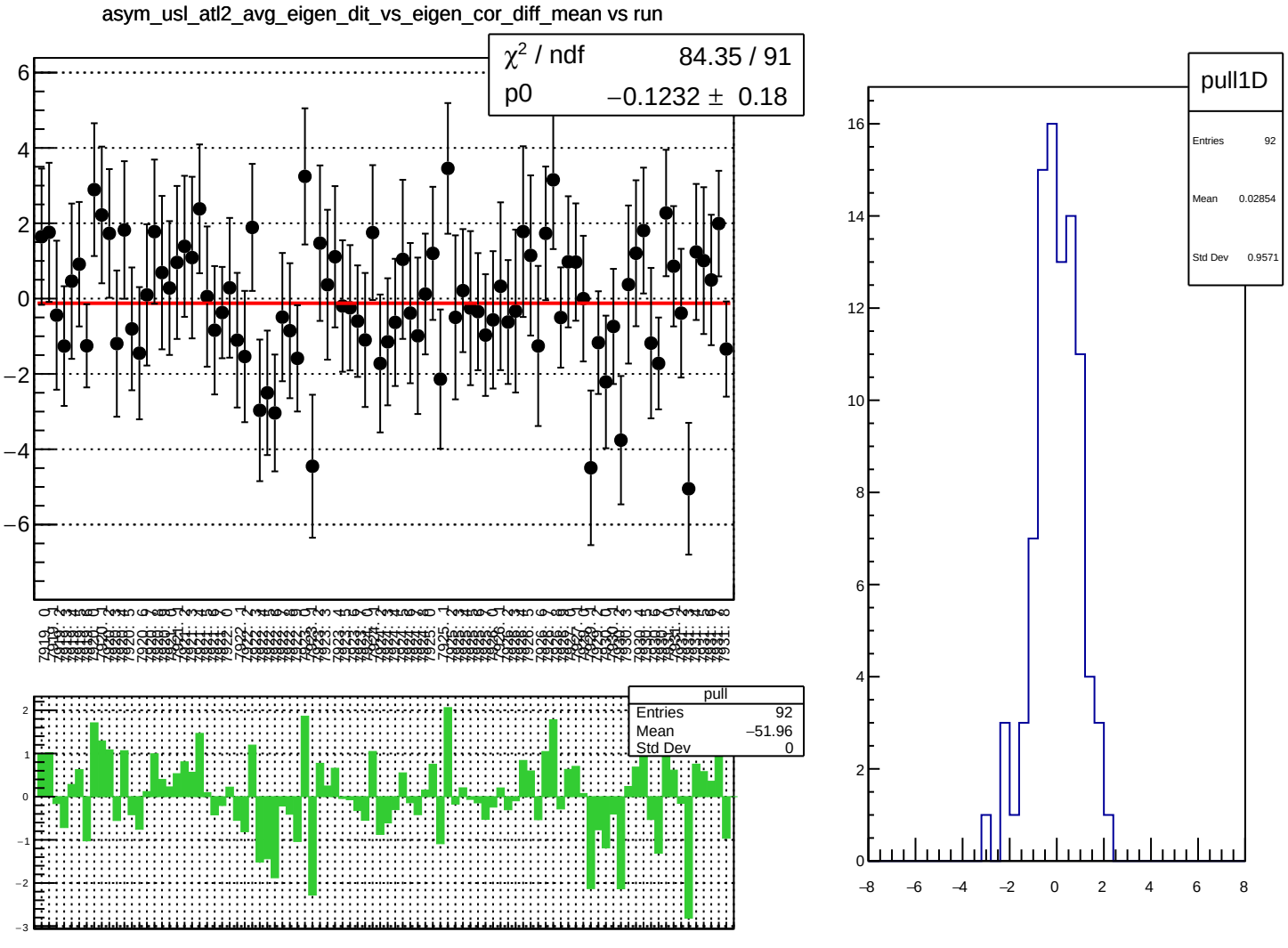

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.566e+04 / 91
p0 169.2 ± 0.1273
220
200
180
160
140

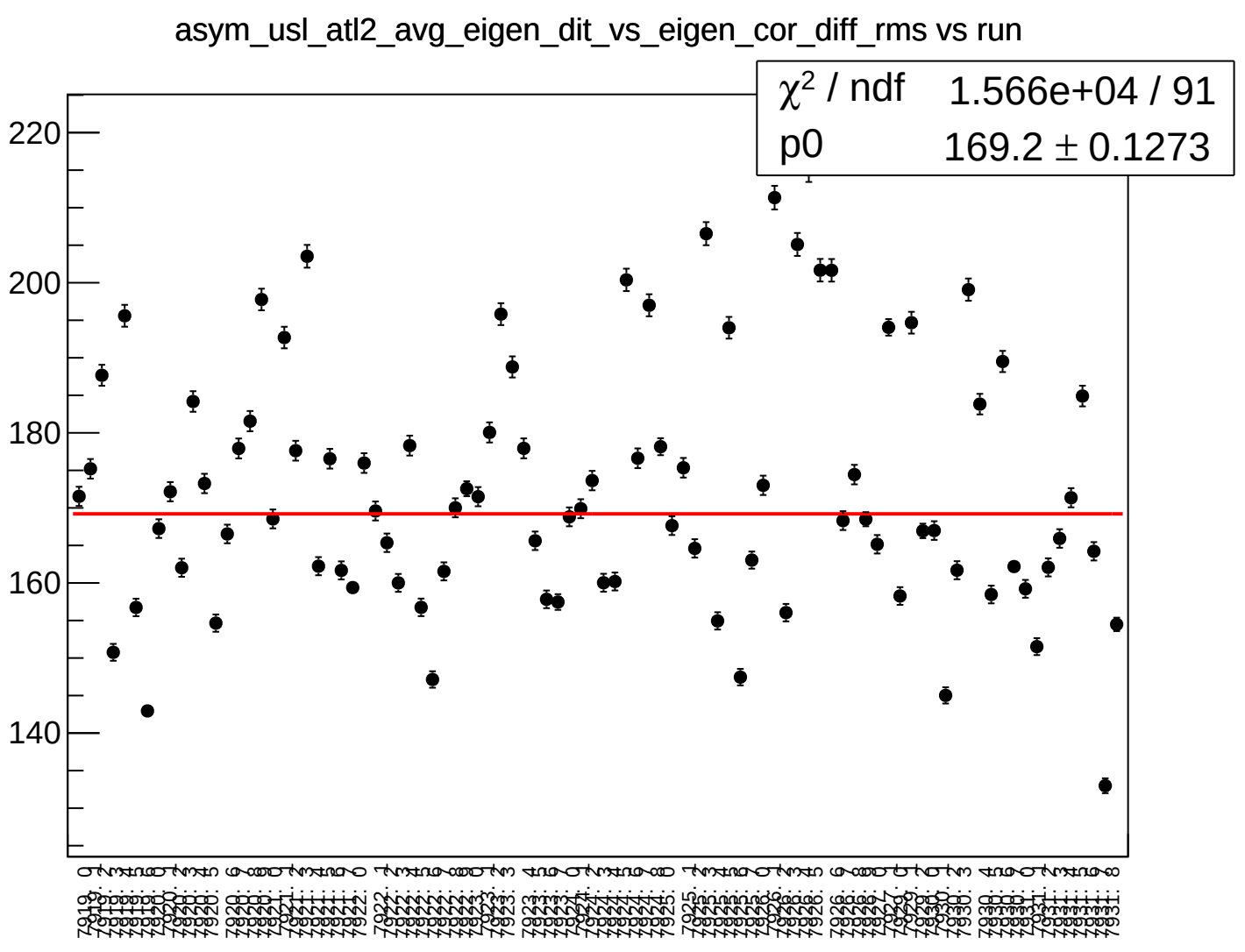

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 94.96 / 91
p0 −1.162e−05 ± 7.751e−06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 92
Mean −2677
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.001015
Std Dev 1.016
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

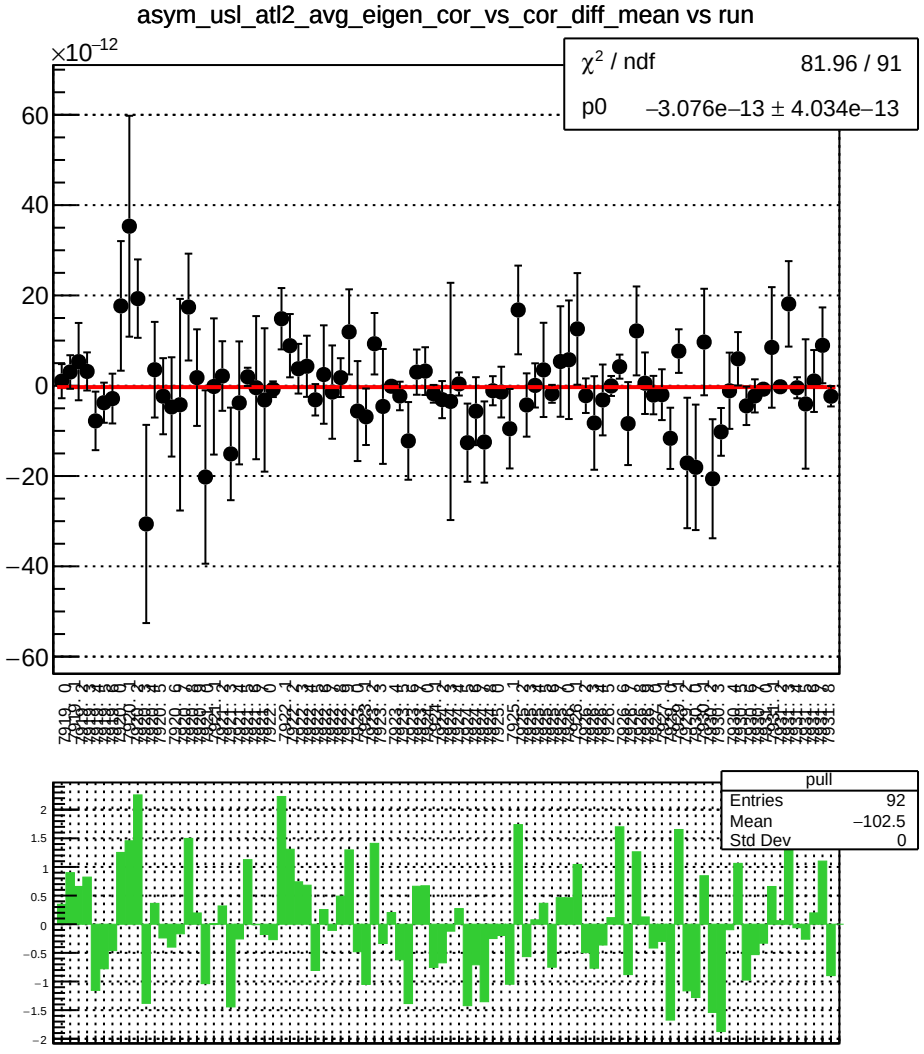

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6303 / 91
p0 0.007305 ± 5.481e−06
0.009
0.0085
0.008
0.0075
0.007
0.0065

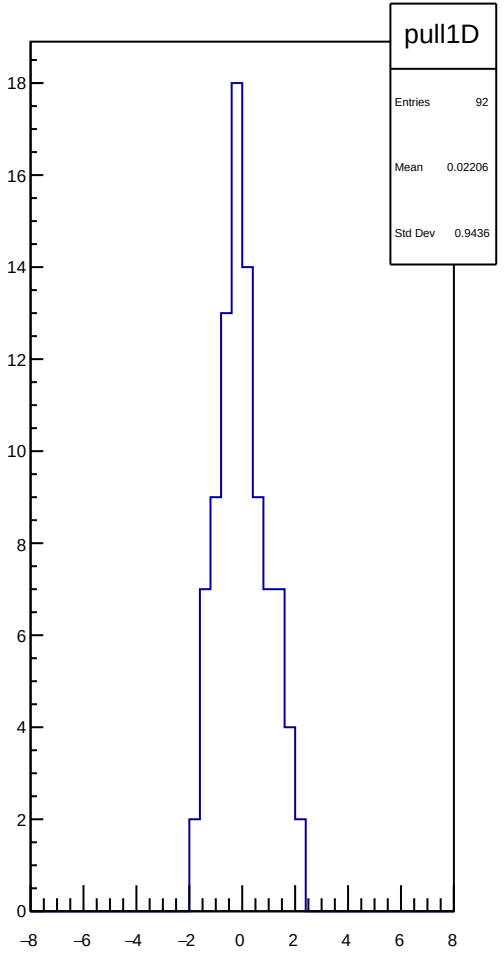

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.35 / 91
p0 −0.1232 ± 0.18
pull
Entries 92
Mean −51.96
Std Dev 0
pull1D
Entries 92
Mean 0.02854
Std Dev 0.9571

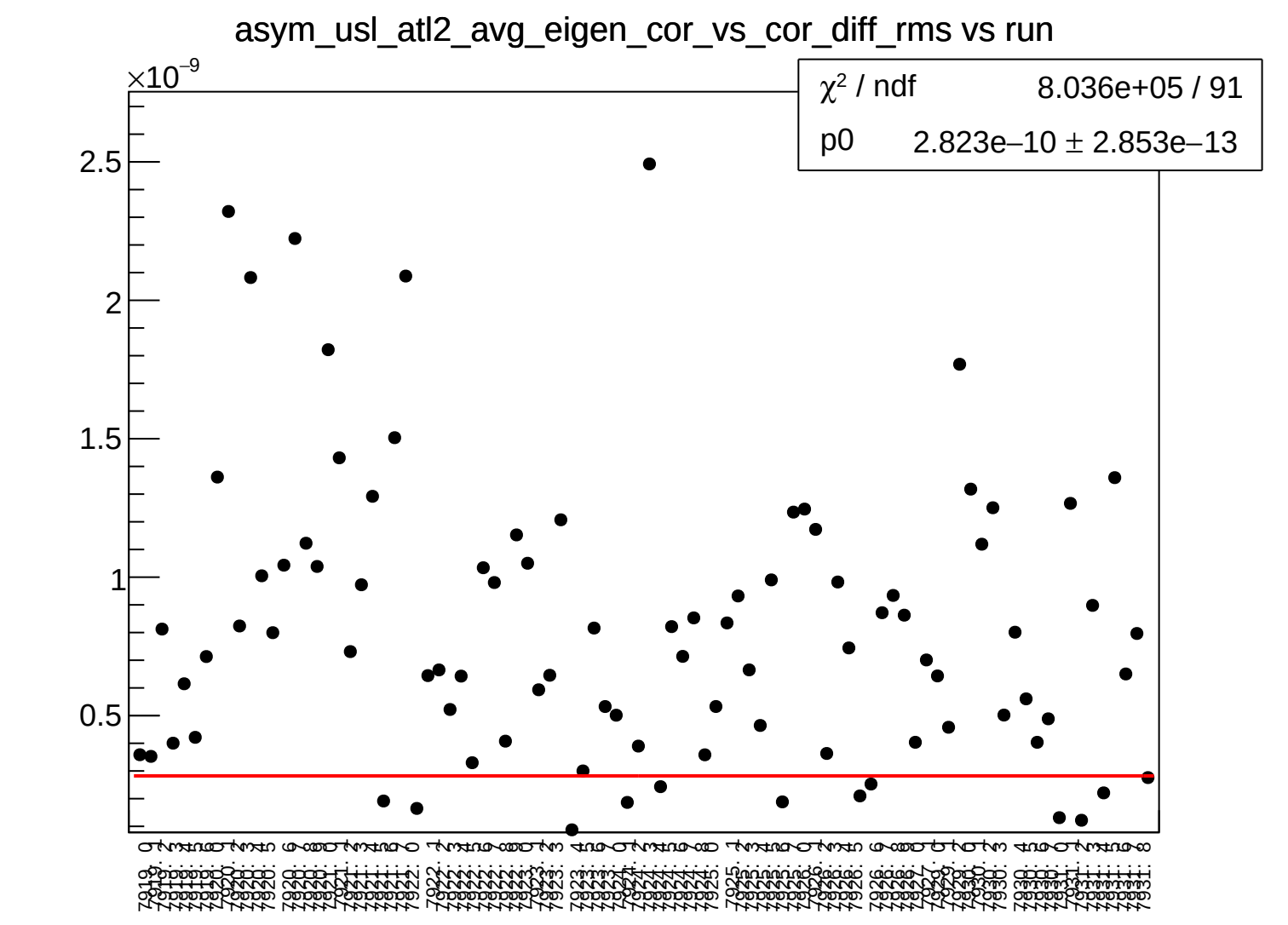

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.566e+04 / 91
p0 169.2 ± 0.1273
220
200
180
160
140

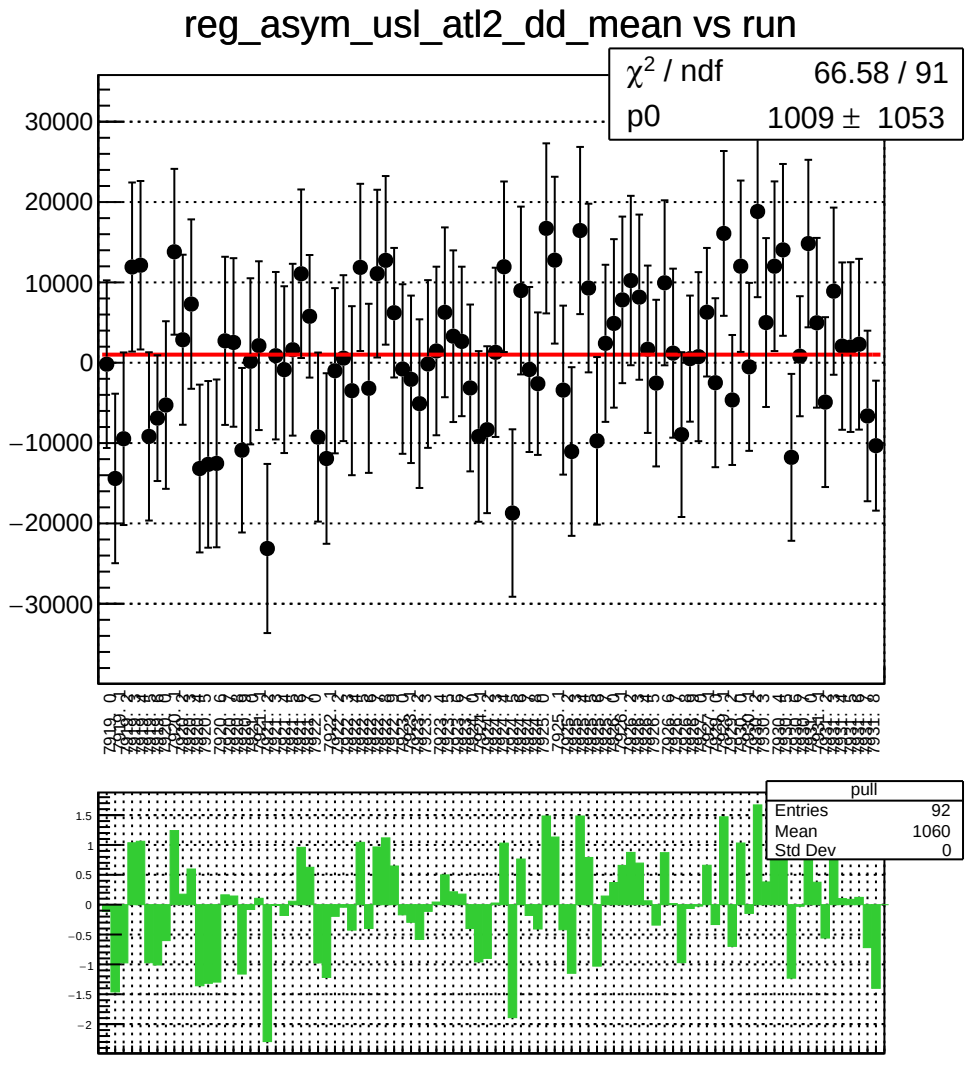

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.35 / 91
p0 −0.1232 ± 0.18
pull
Entries 92
Mean −51.96
Std Dev 0
pull1D
Entries 92
Mean 0.02854
Std Dev 0.9571

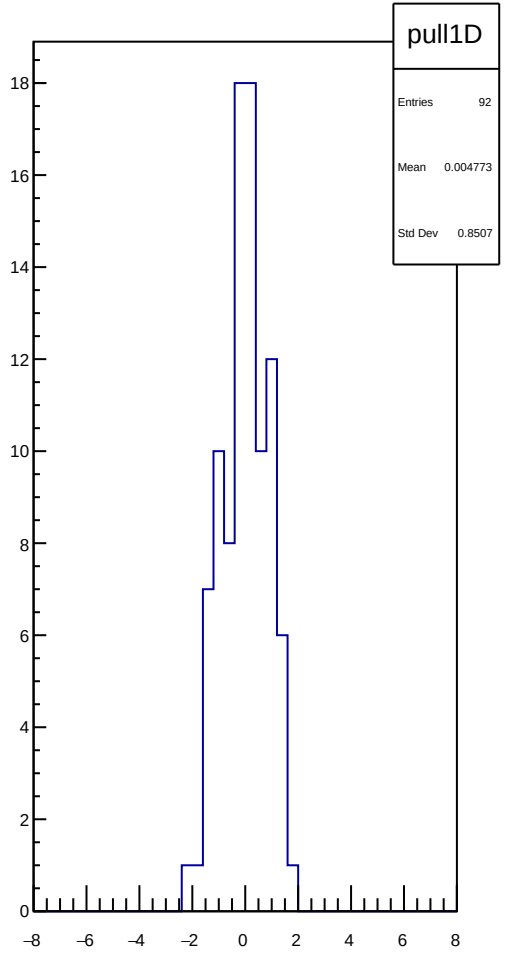

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.566e+04 / 91
p0 169.2 ± 0.1273
220
200
180
160
140

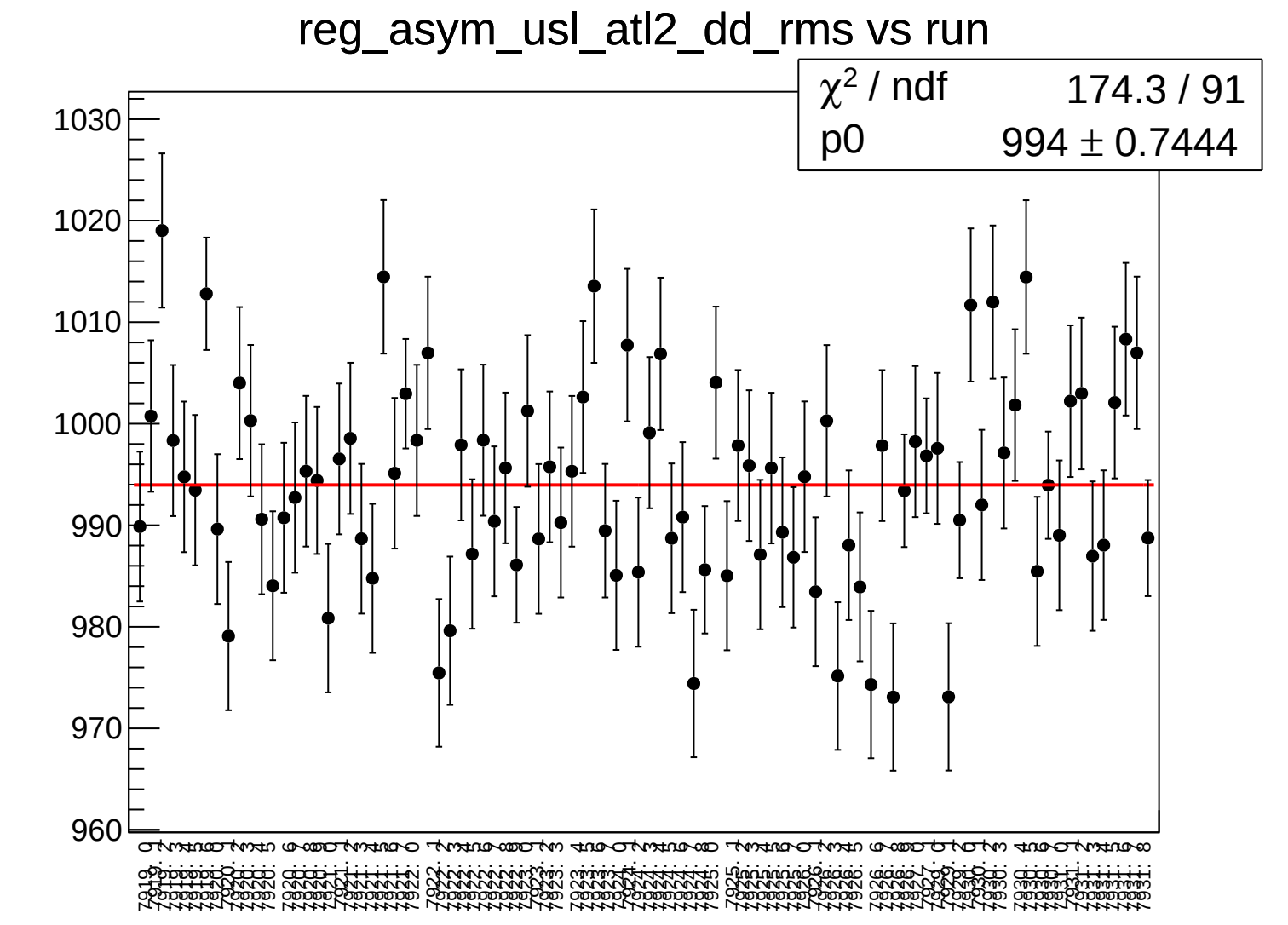

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.96 / 91
p0 −3.076e−13 ± 4.034e−13
pull
Entries 92
Mean −102.5
Std Dev 0

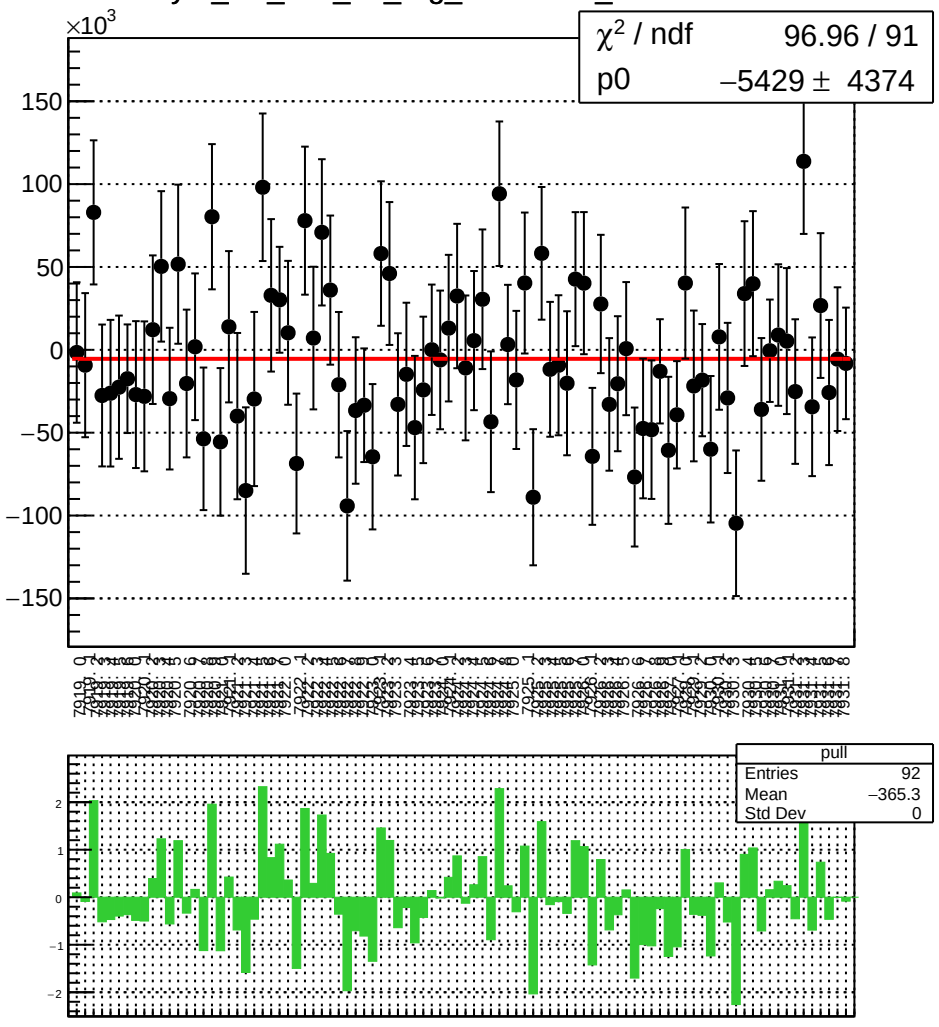

pull1D
Entries 92
Mean 0.02206
Std Dev 0.9436

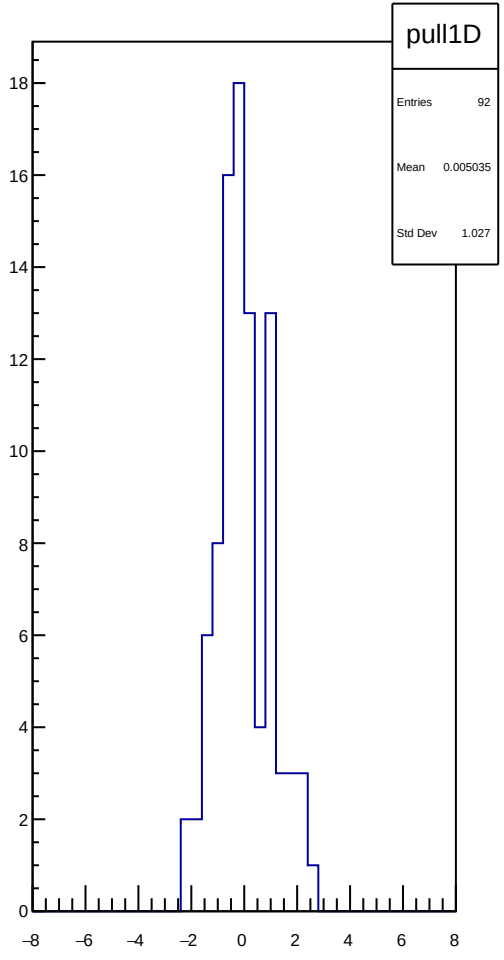

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.036e+05 / 91
p0 2.823e−10 ± 2.853e−13
2.5
2
1.5
1
0.5

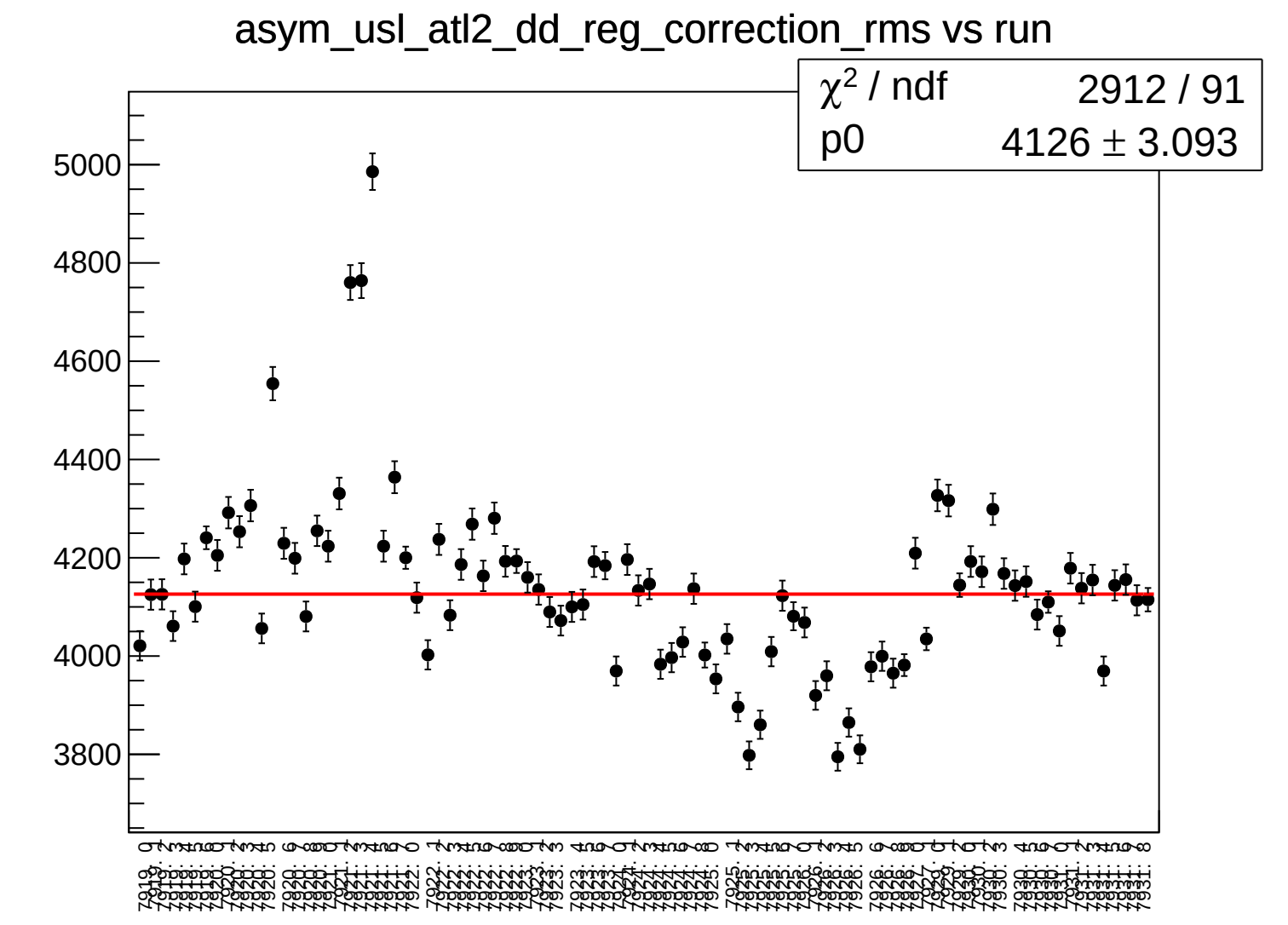

reg_asym_usl_atl2_dd_mean vs run
χ² / ndf 66.58 / 91
p0 1009 ± 1053
pull
Entries 92
Mean 1060
Std Dev 0

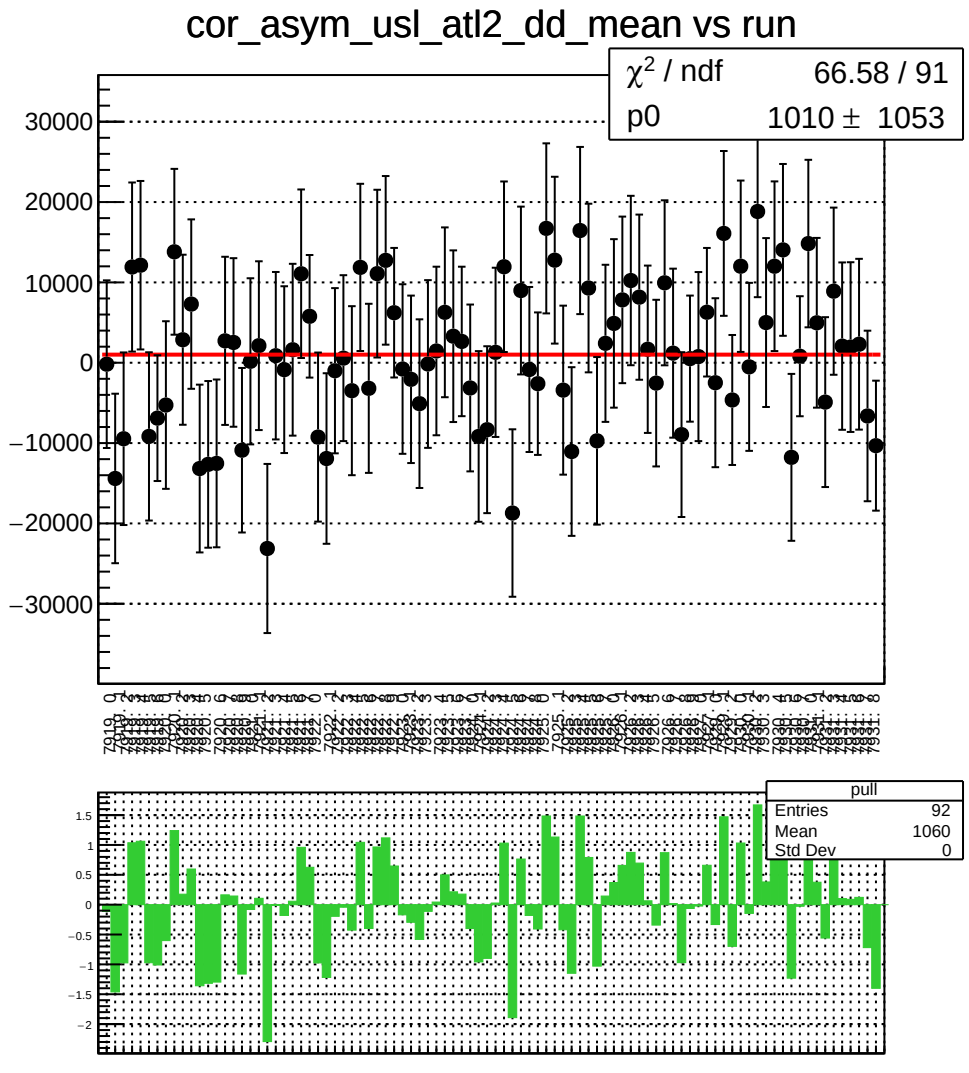

pull1D
Entries 92
Mean 0.004773
Std Dev 0.8507

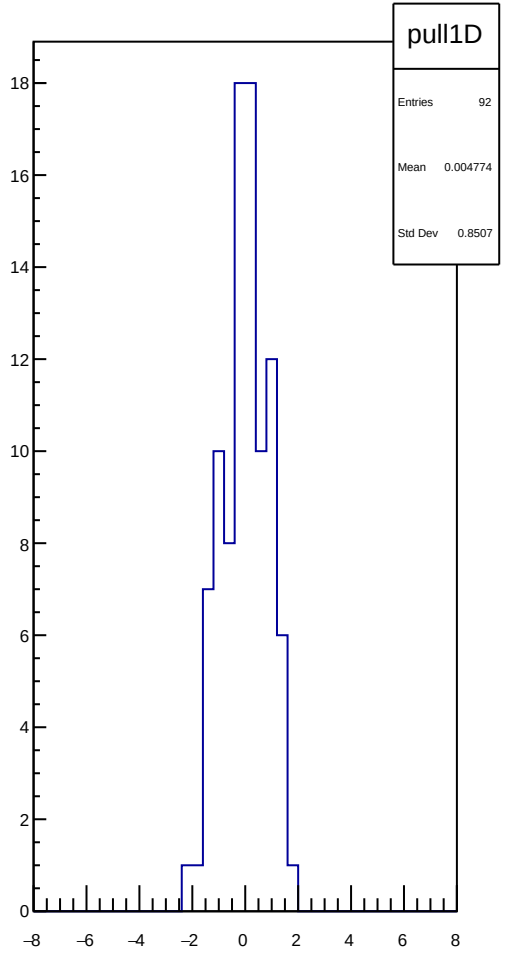

reg_asym_usl_atl2_dd_rms vs run
χ² / ndf 174.3 / 91
p0 994 ± 0.7444
1030
1020
1010
1000
990
980
970
960

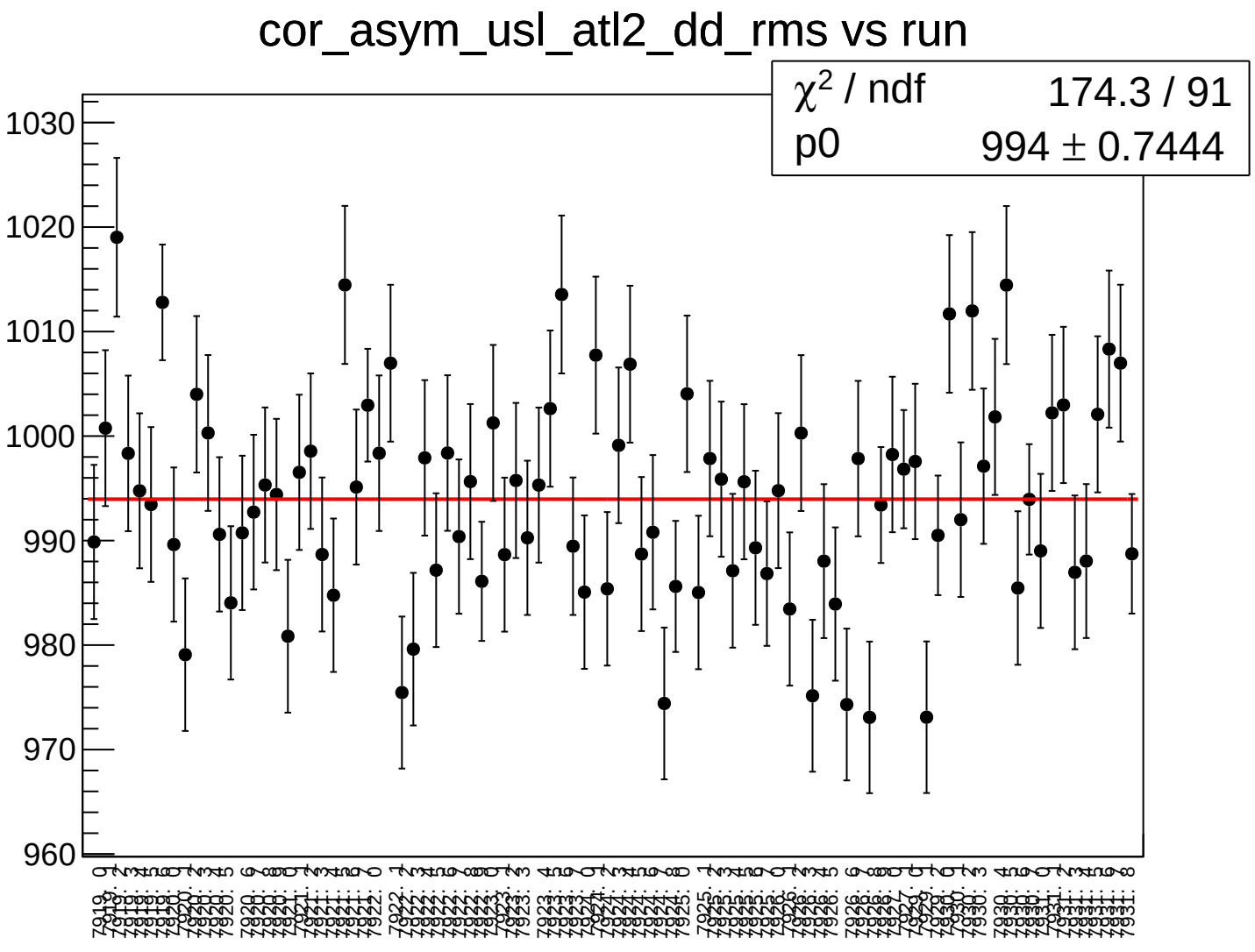

asym_usl_atl2_dd_reg_correction_mean vs run
χ² / ndf 96.96 / 91
p0 −5429 ± 4374
×10³
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean −365.3
Std Dev 0
2
1
0
−1
−2

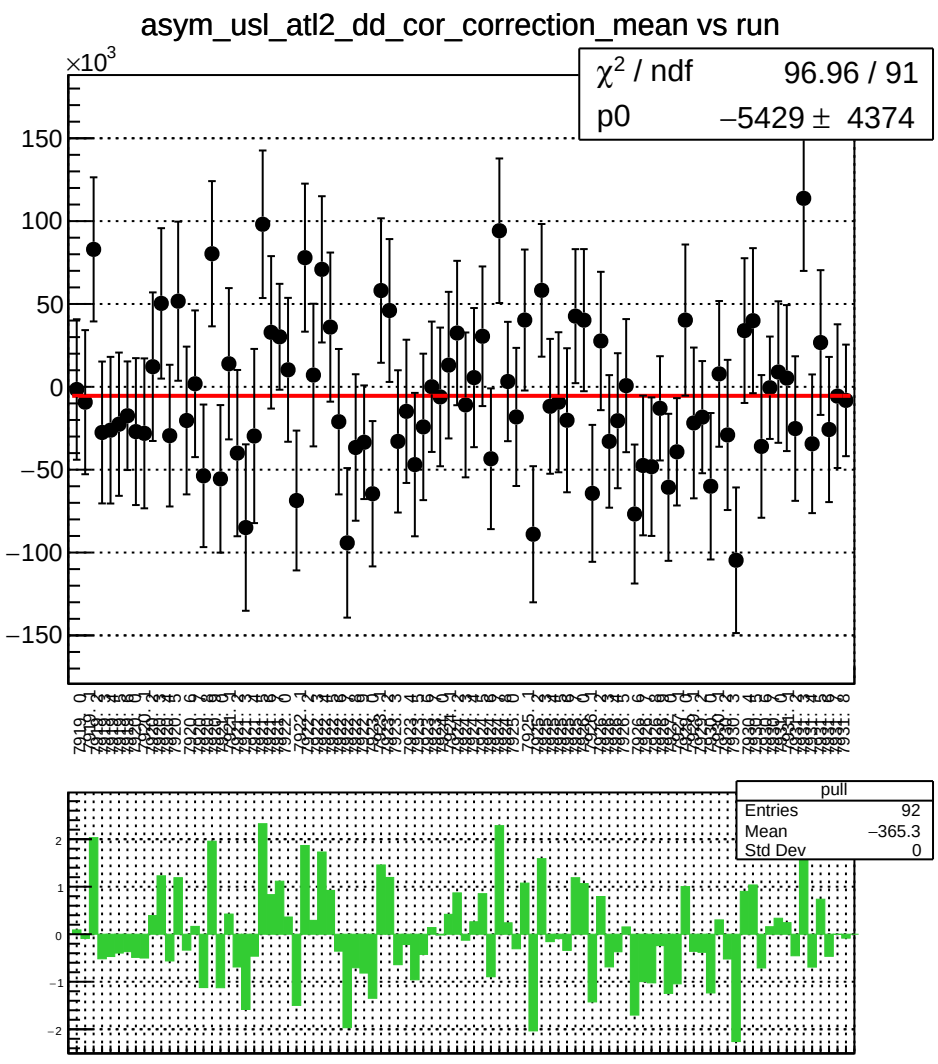

pull1D
Entries 92
Mean 0.005035
Std Dev 1.027
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

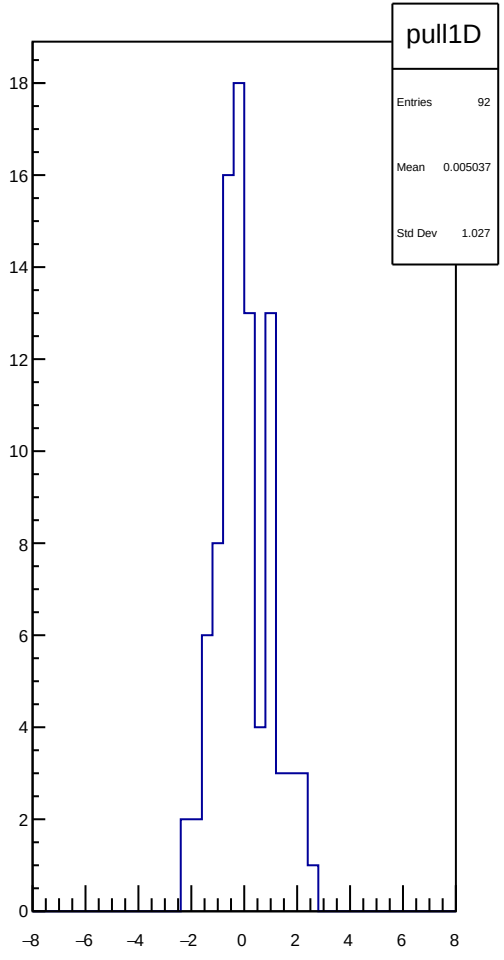

asym_usl_atl2_dd_reg_correction_rms vs run
χ^2 / ndf 2912 / 91
p0 4126 ± 3.093
5000
4800
4600
4400
4200
4000
3800

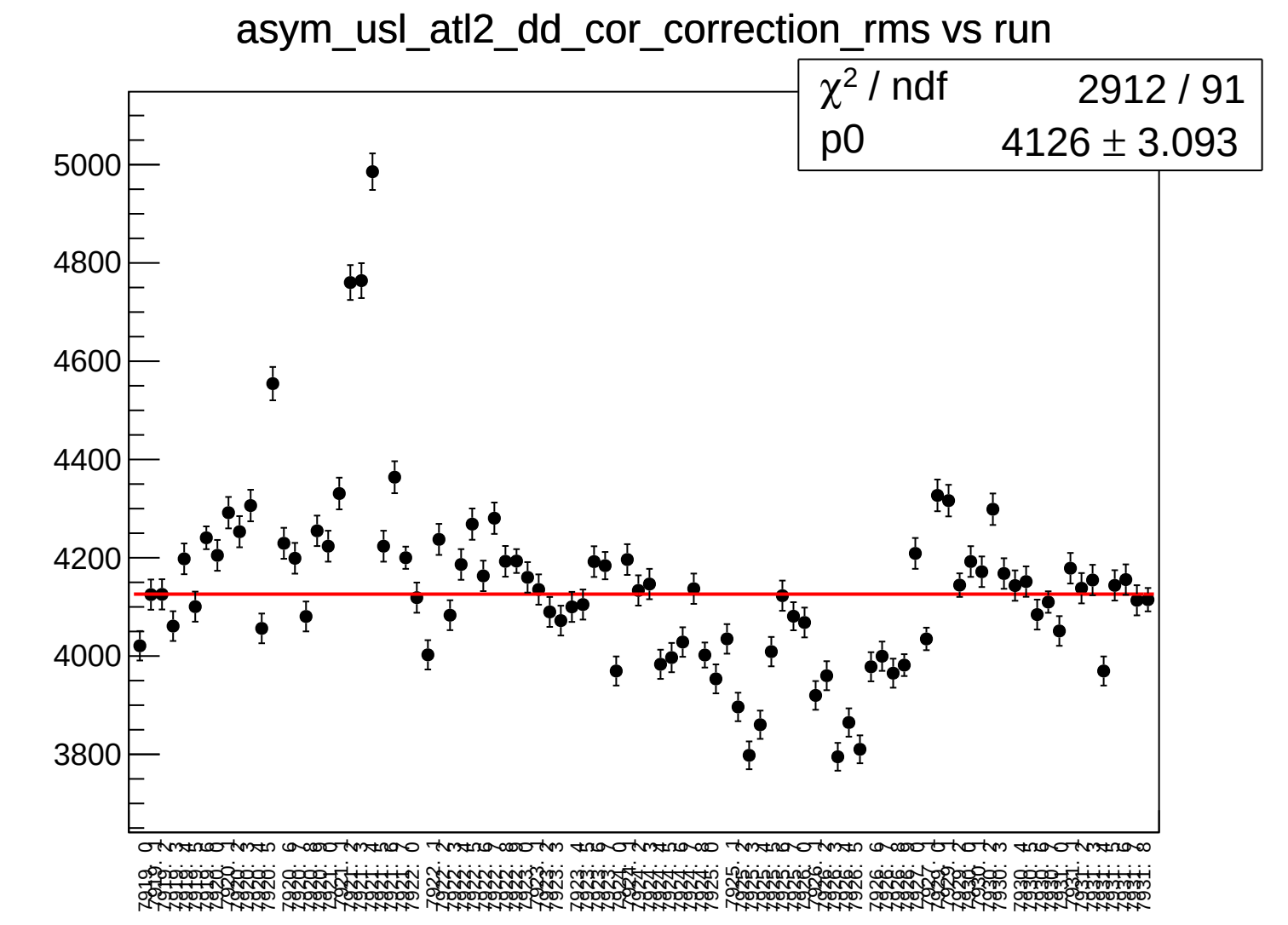

cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 66.58 / 91
p0 1010 ± 1053
pull
Entries 92
Mean 1060
Std Dev 0

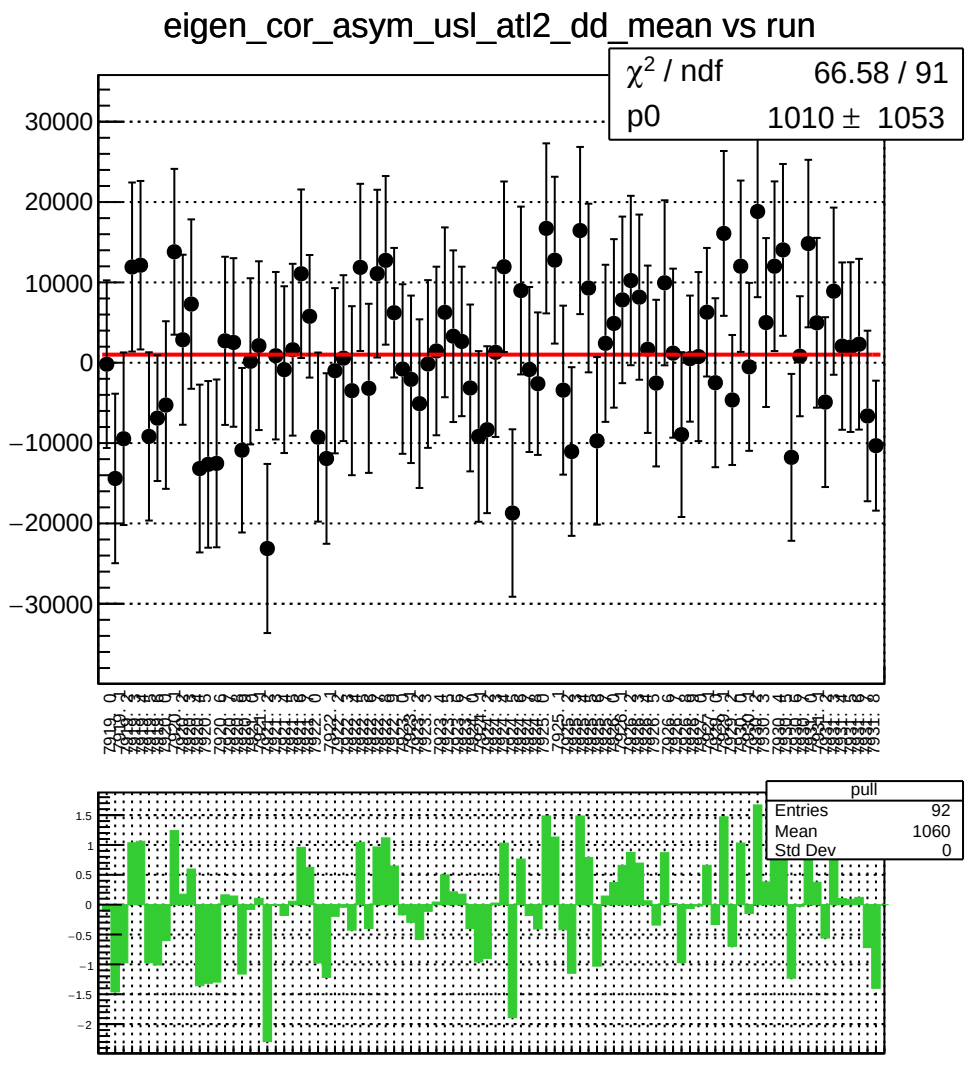

pull1D
Entries 92
Mean 0.004774
Std Dev 0.8507

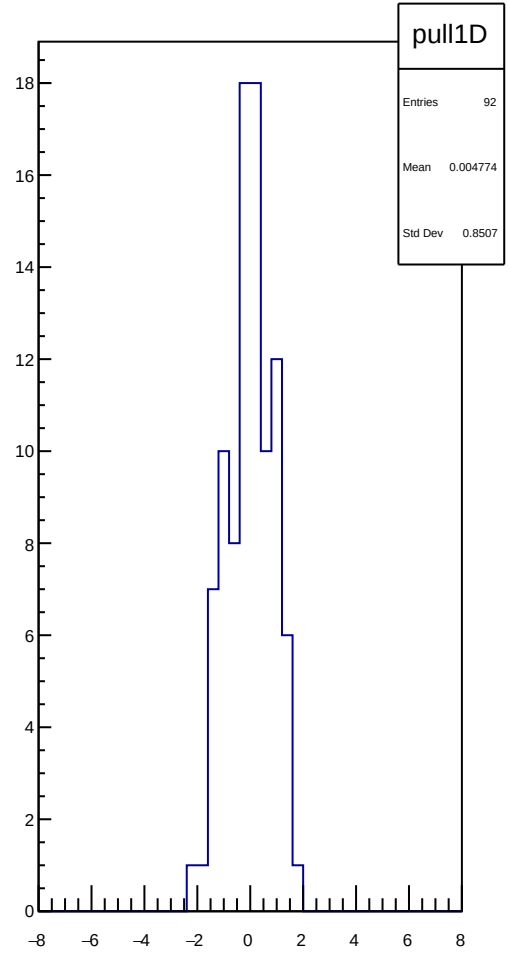

cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 174.3 / 91
p0 994 ± 0.7444
1030
1020
1010
1000
990
980
970
960

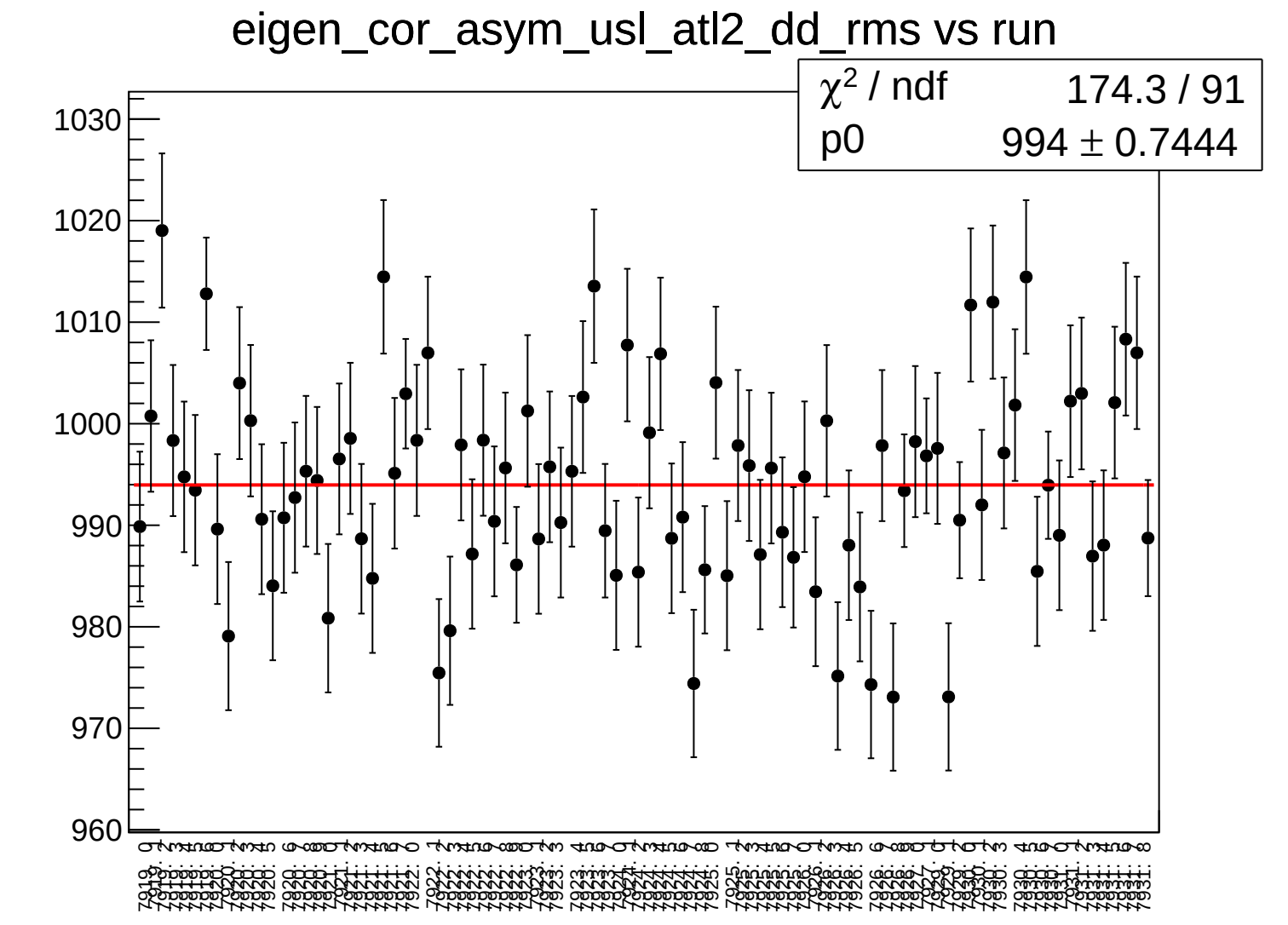

asym_usl_atl2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 96.96 / 91
p0 −5429 ± 4374
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean −365.3
Std Dev 0
2
1
0
−1
−2

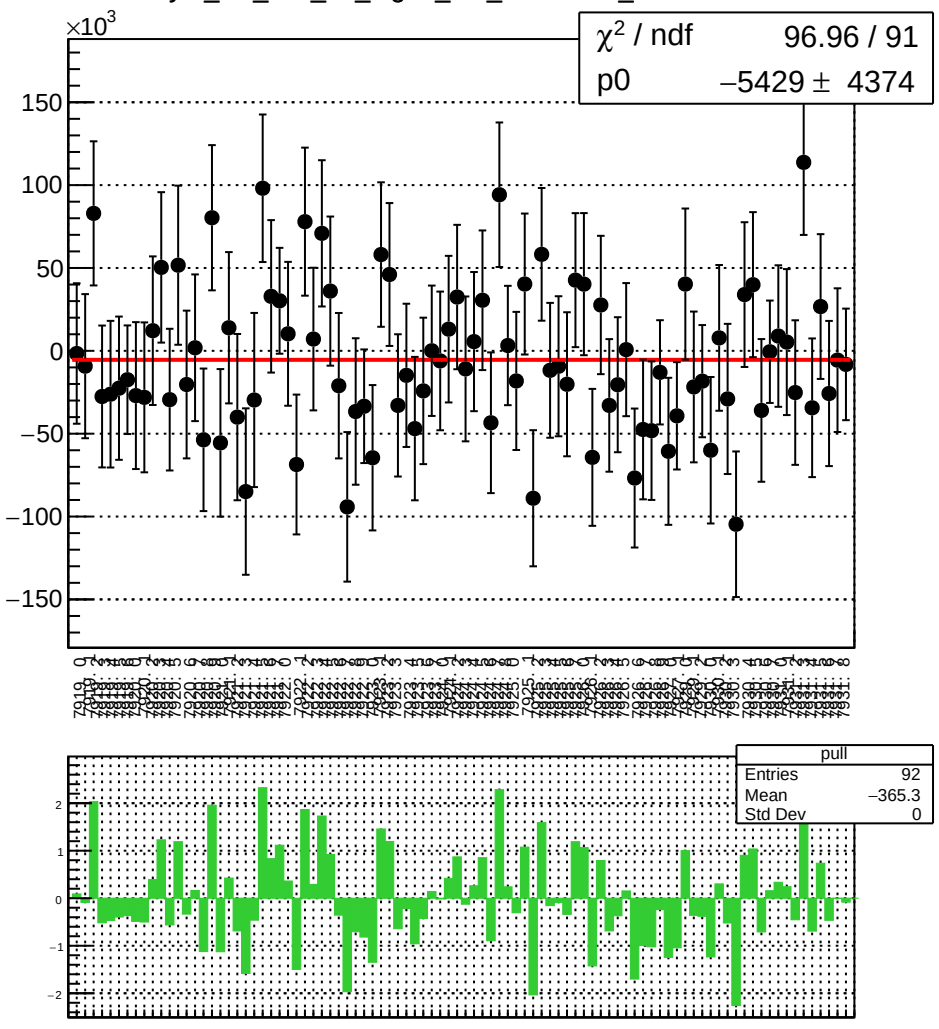

pull1D
Entries 92
Mean 0.005037
Std Dev 1.027
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

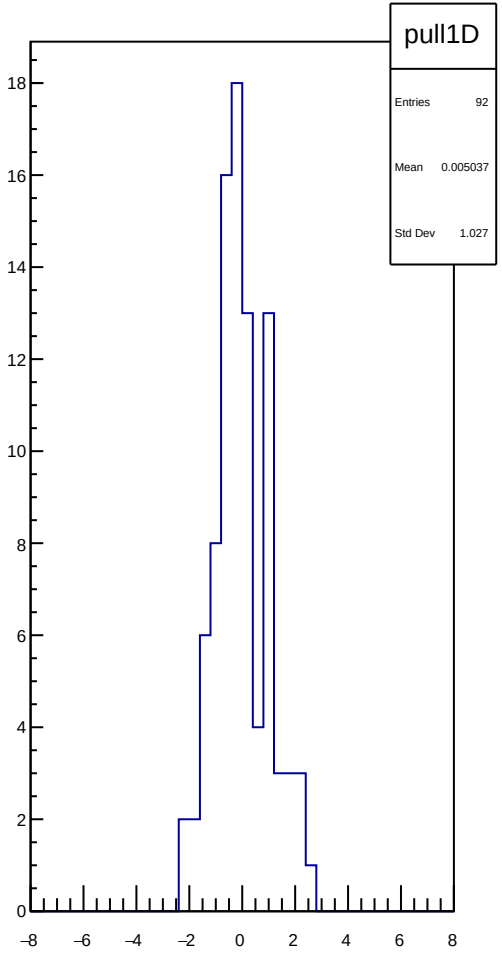

asym_usl_atl2_dd_cor_correction_rms vs run
χ² / ndf 2912 / 91
p0 4126 ± 3.093
5000
4800
4600
4400
4200
4000
3800

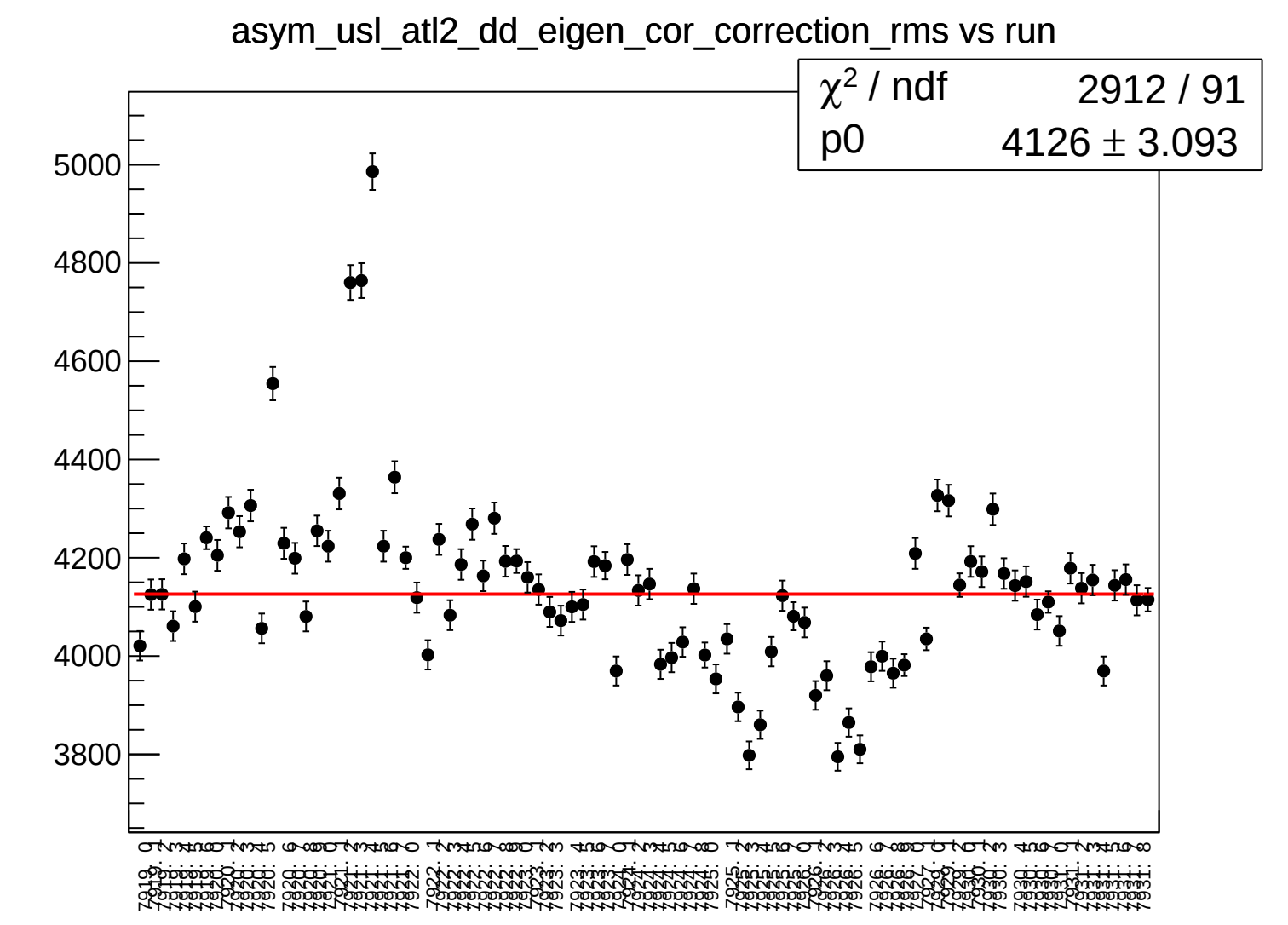

eigen_cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 66.58 / 91
p0 1010 ± 1053
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean 1060
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

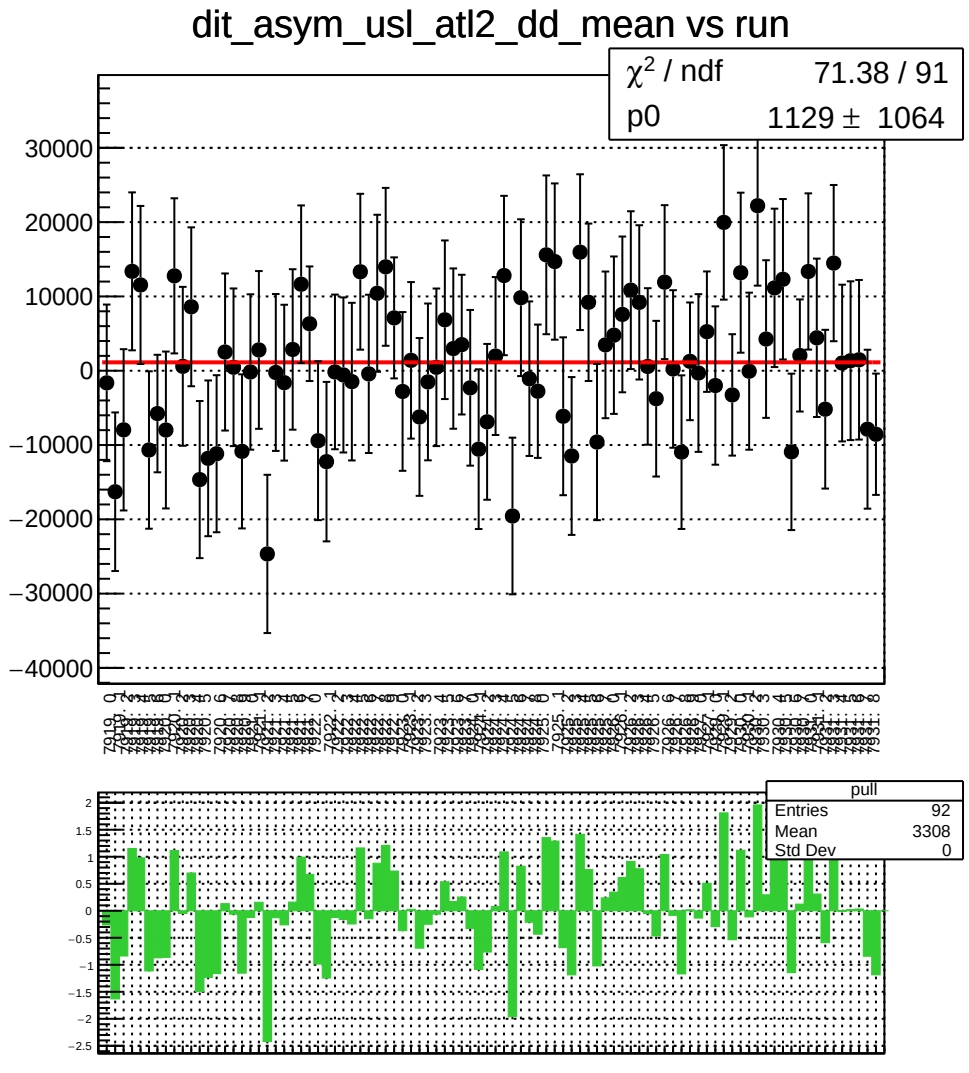

pull1D
Entries 92
Mean 0.004774
Std Dev 0.8507
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

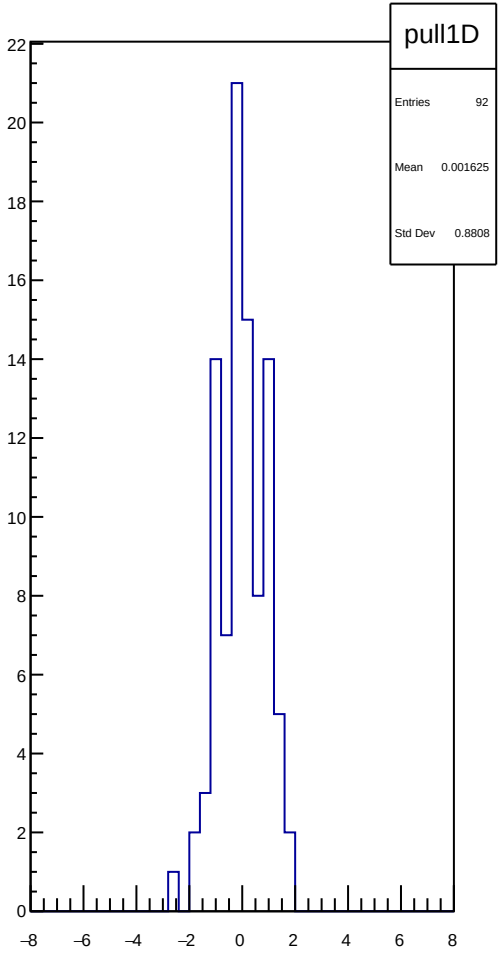

eigen_cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 174.3 / 91
p0 994 ± 0.7444
1030
1020
1010
1000
990
980
970
960

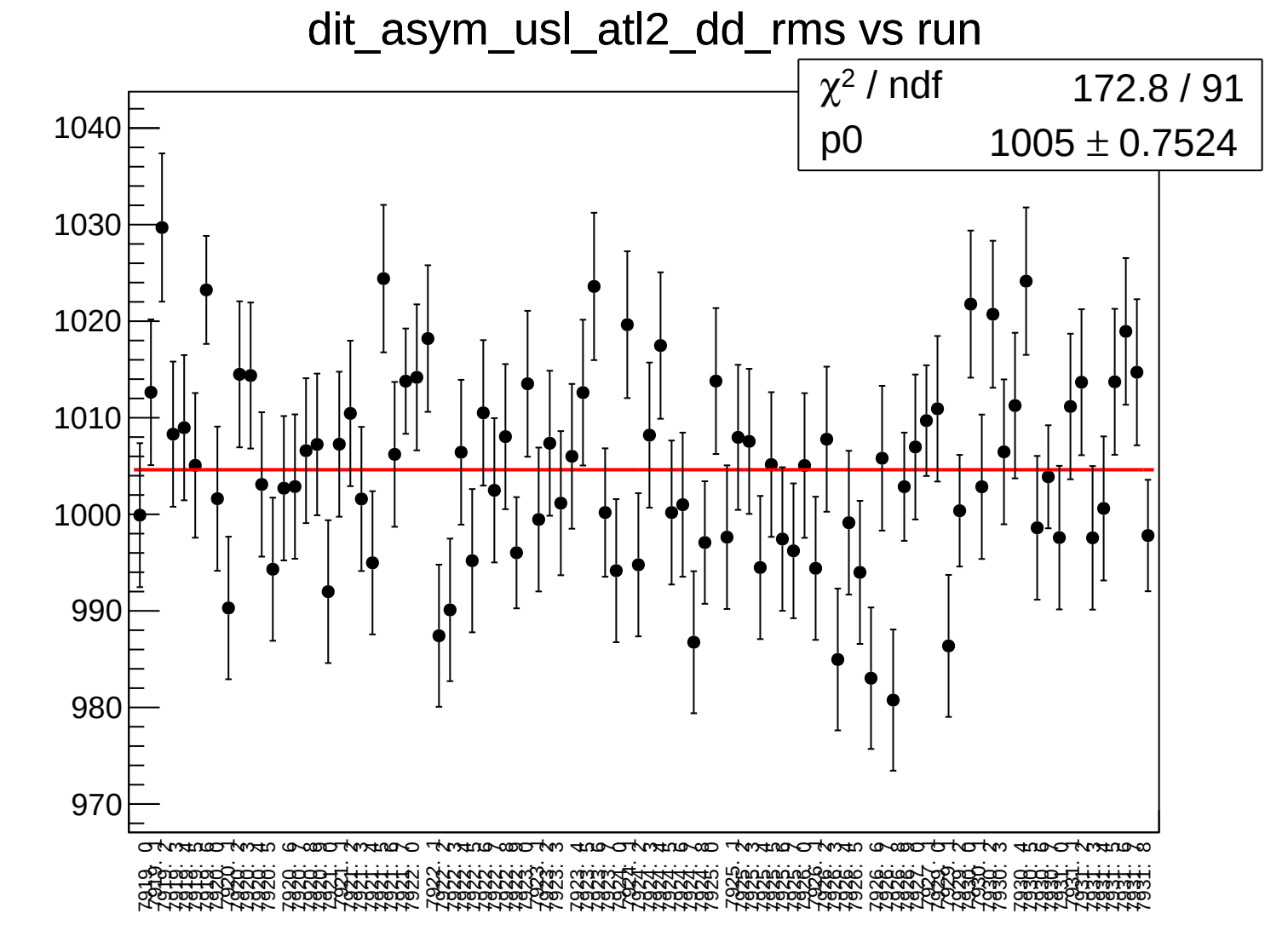

asym_usl_atl2_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 96.96 / 91
p0 −5429 ± 4374
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean −365.3
Std Dev 0
2
1
0
−1
−2

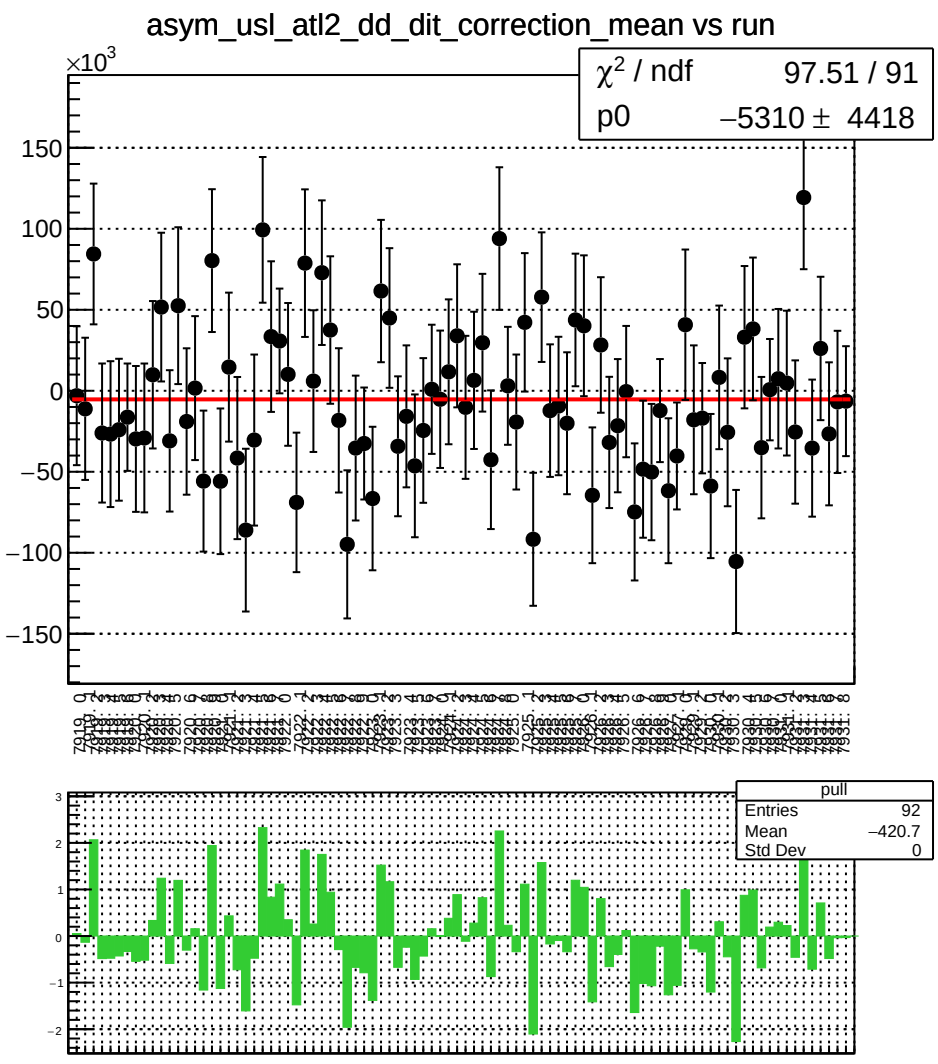

pull1D
Entries 92
Mean 0.005037
Std Dev 1.027
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

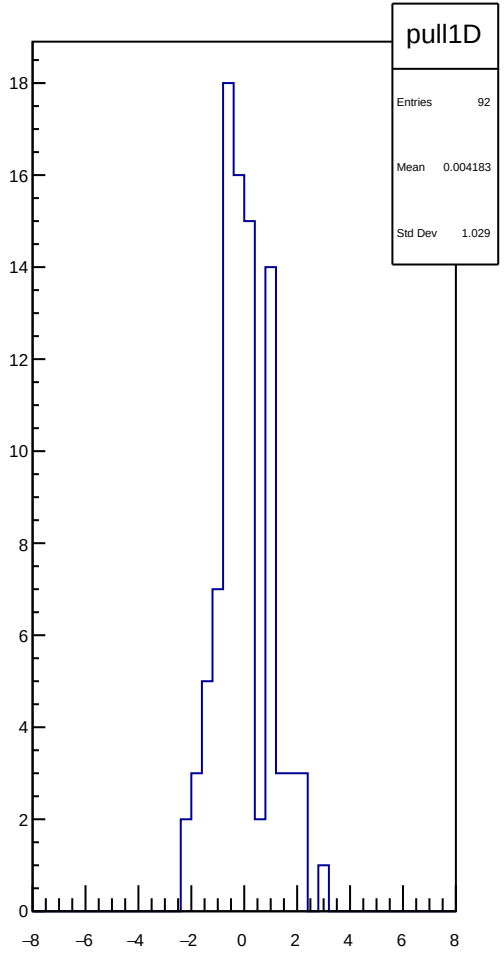

asym_usl_atl2_dd_eigen_cor_correction_rms vs run
χ² / ndf 2912 / 91
p0 4126 ± 3.093
5000
4800
4600
4400
4200
4000
3800

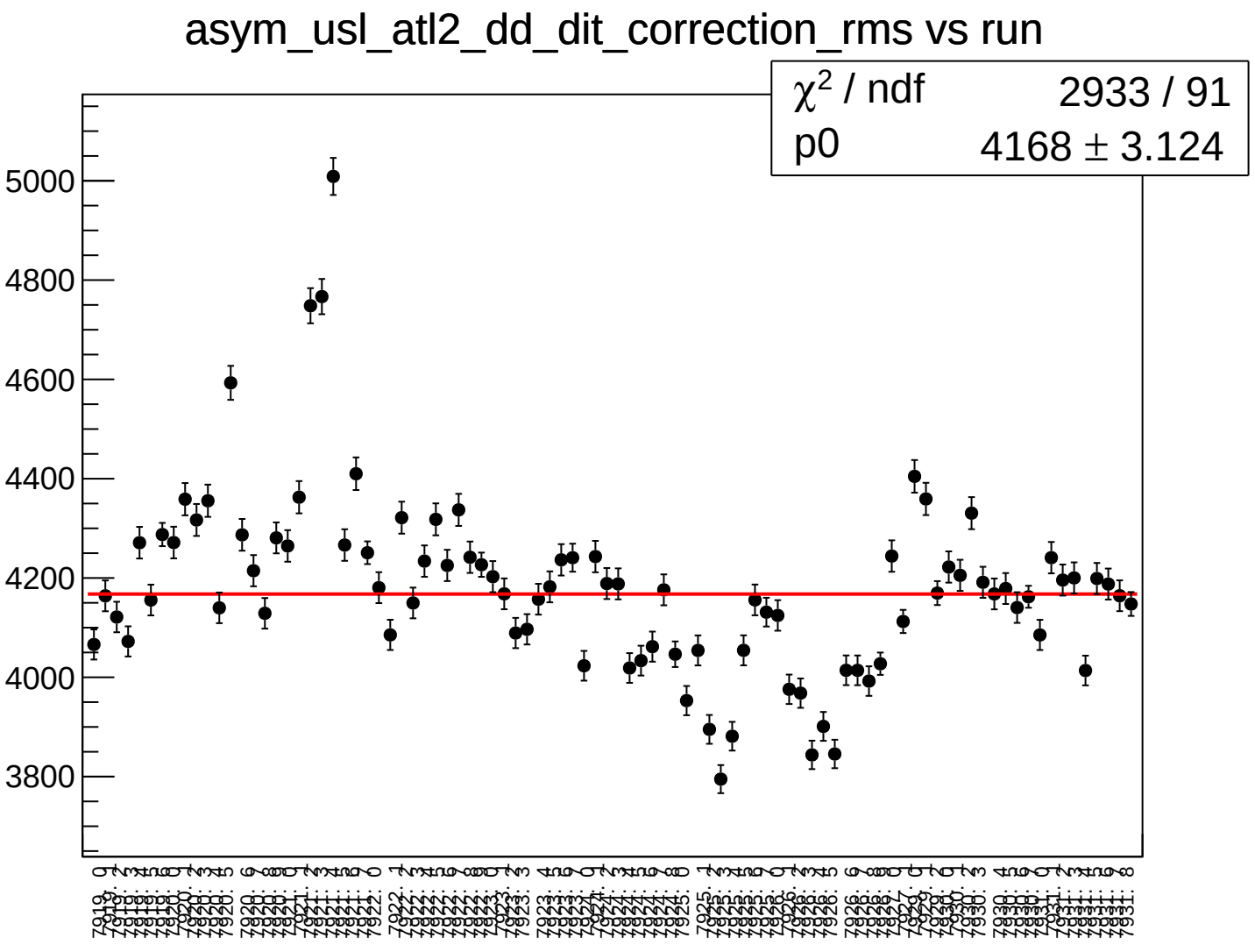

dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 71.38 / 91
p0 1129 ± 1064
pull
Entries 92
Mean 3308
Std Dev 0

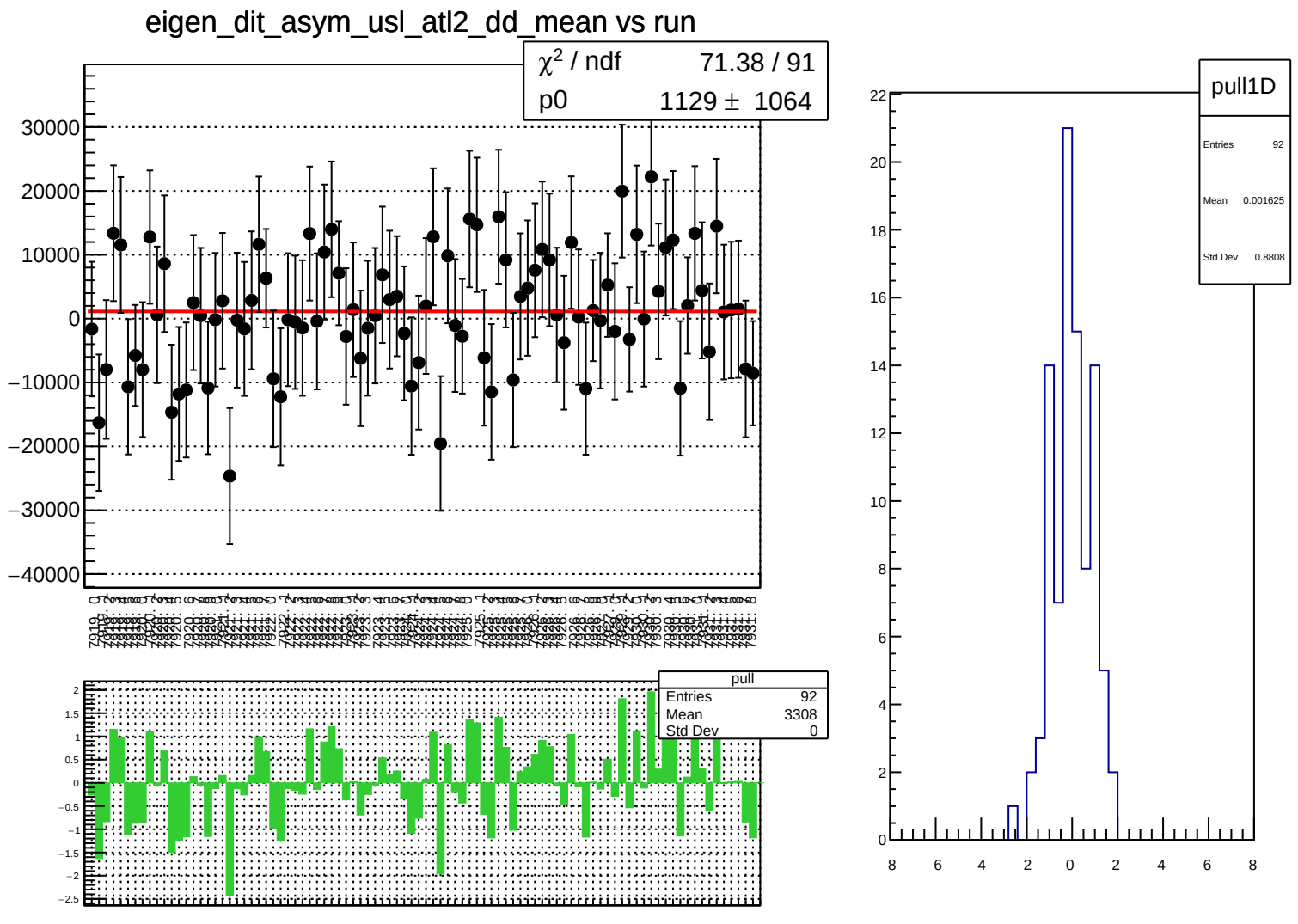

pull1D
Entries 92
Mean 0.001625
Std Dev 0.8808

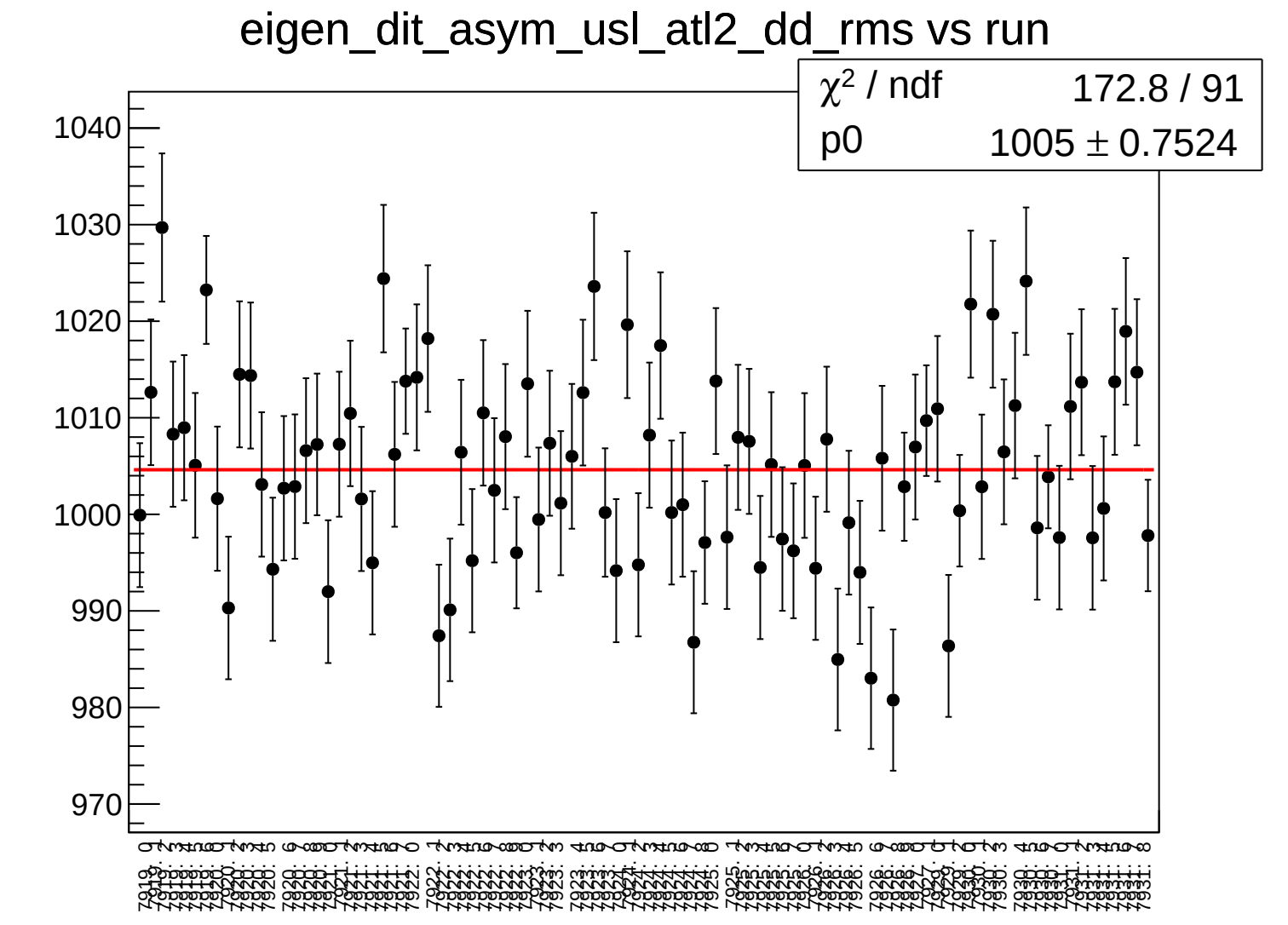

dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 172.8 / 91
p0 1005 ± 0.7524
1040
1030
1020
1010
1000
990
980
970

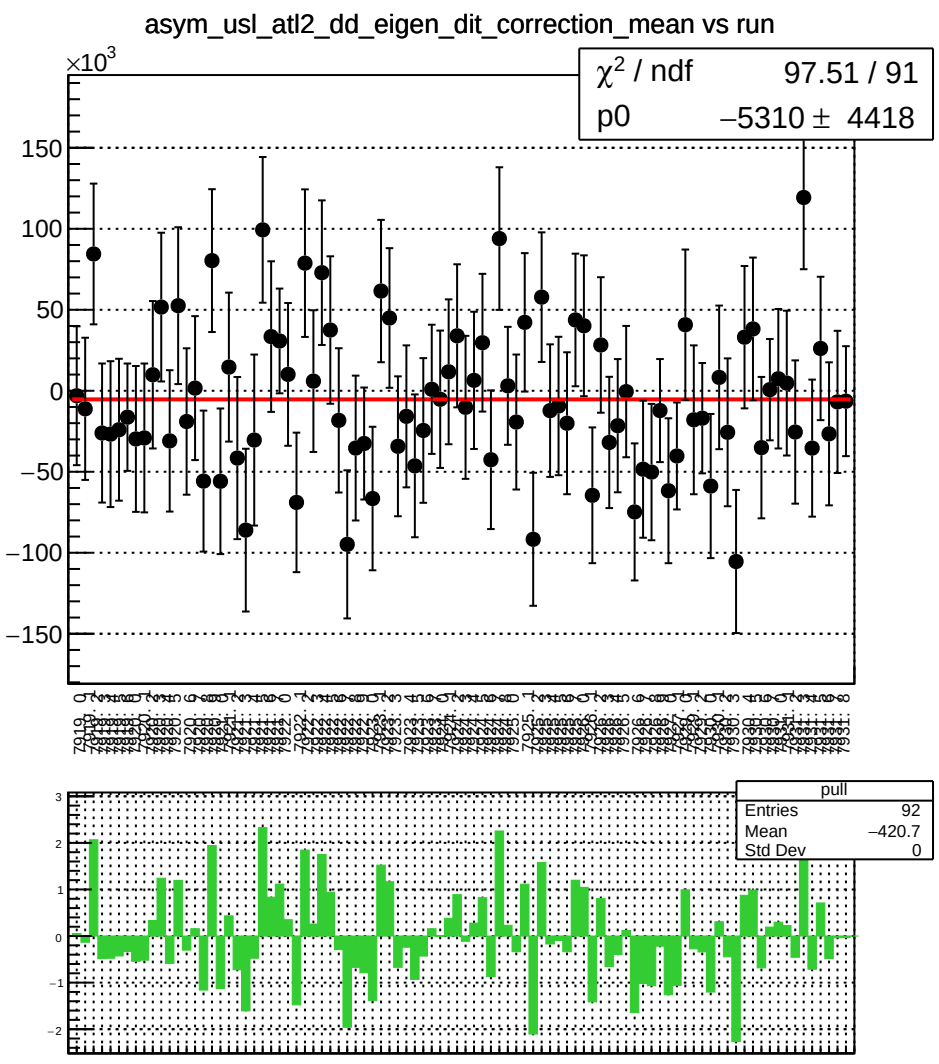

asym_usl_atl2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 97.51 / 91
p0 −5310 ± 4418
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean −420.7
Std Dev 0
3
2
1
0
−1
−2

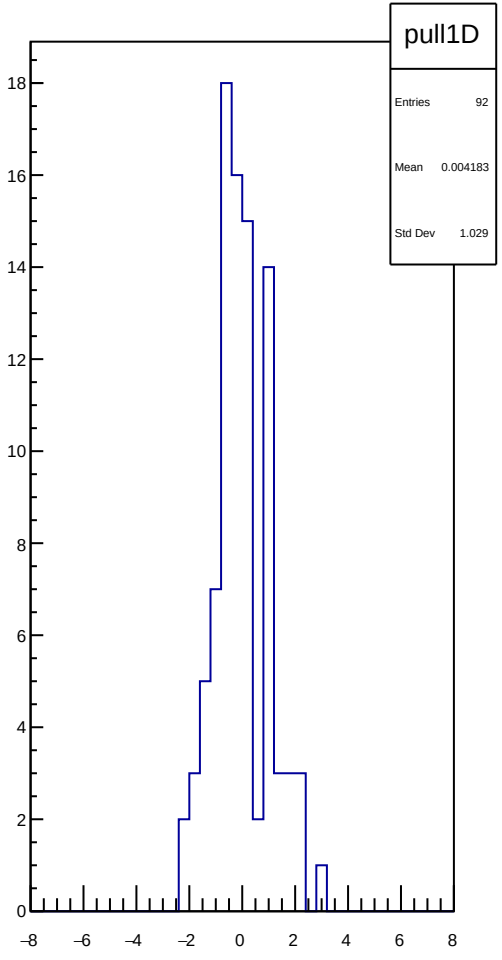

pull1D
Entries 92
Mean 0.004183
Std Dev 1.029
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

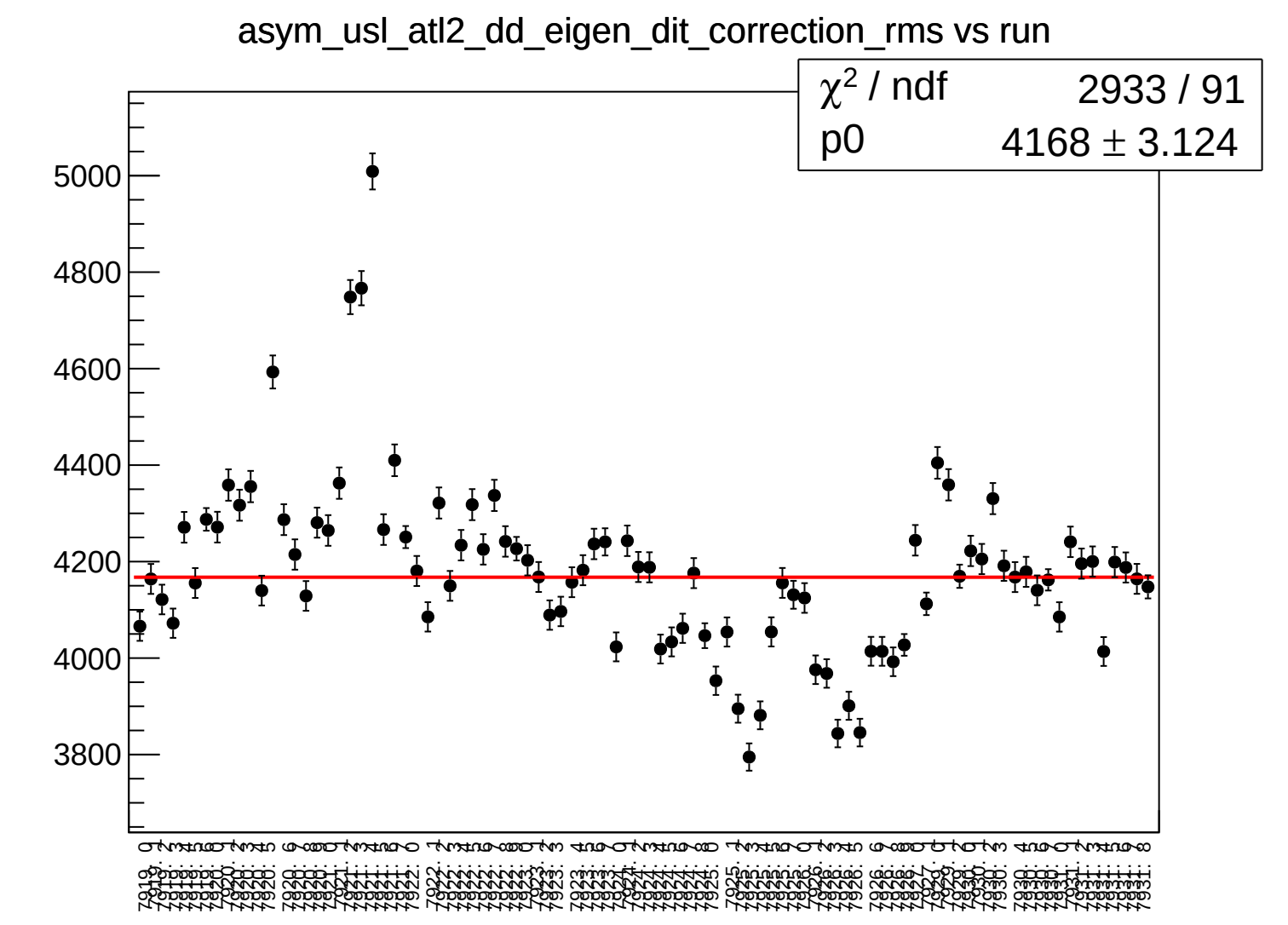

asym_usl_atl2_dd_dit_correction_rms vs run
χ² / ndf 2933 / 91
p0 4168 ± 3.124
5000
4800
4600
4400
4200
4000
3800

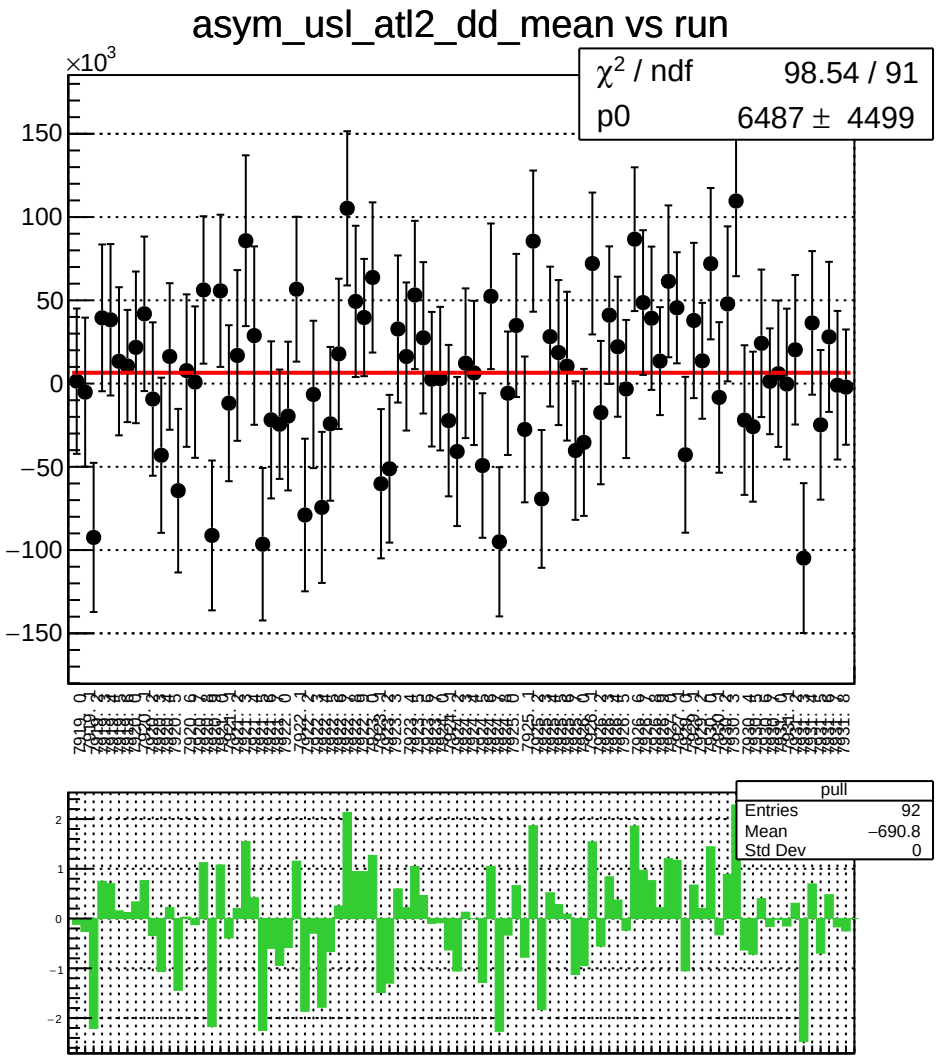

eigen_dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 71.38 / 91
p0 1129 ± 1064
pull
Entries 92
Mean 3308
Std Dev 0
pull1D
Entries 92
Mean 0.001625
Std Dev 0.8808

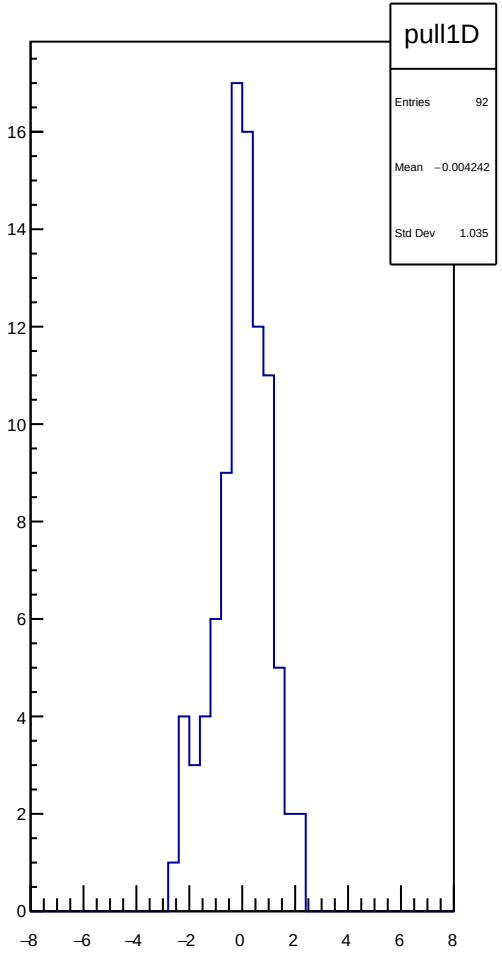

eigen_dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 172.8 / 91
p0 1005 ± 0.7524
1040
1030
1020
1010
1000
990
980
970

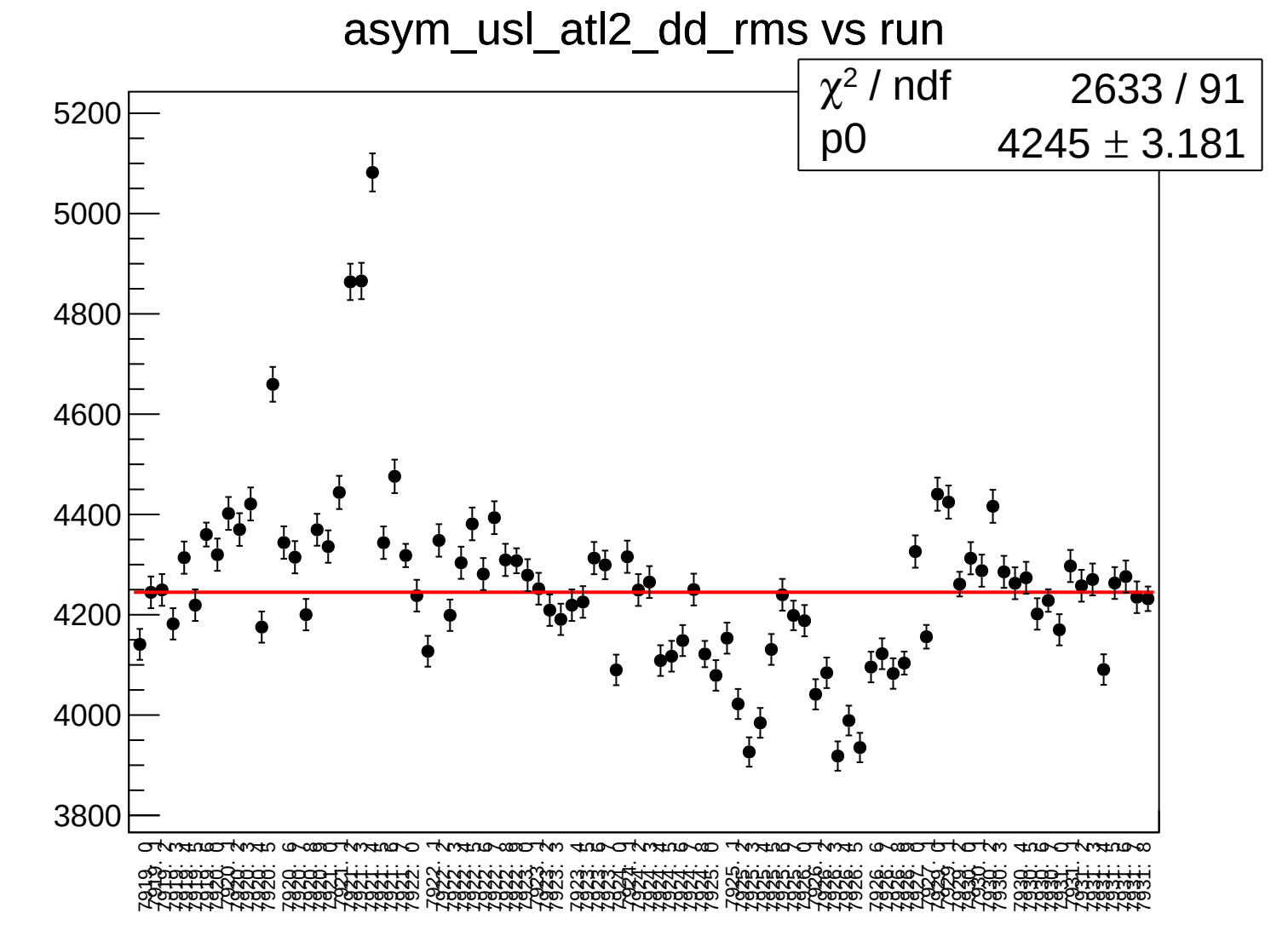

asym_usl_atl2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 97.51 / 91
p0 −5310 ± 4418
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean −420.7
Std Dev 0
3
2
1
0
−1
−2

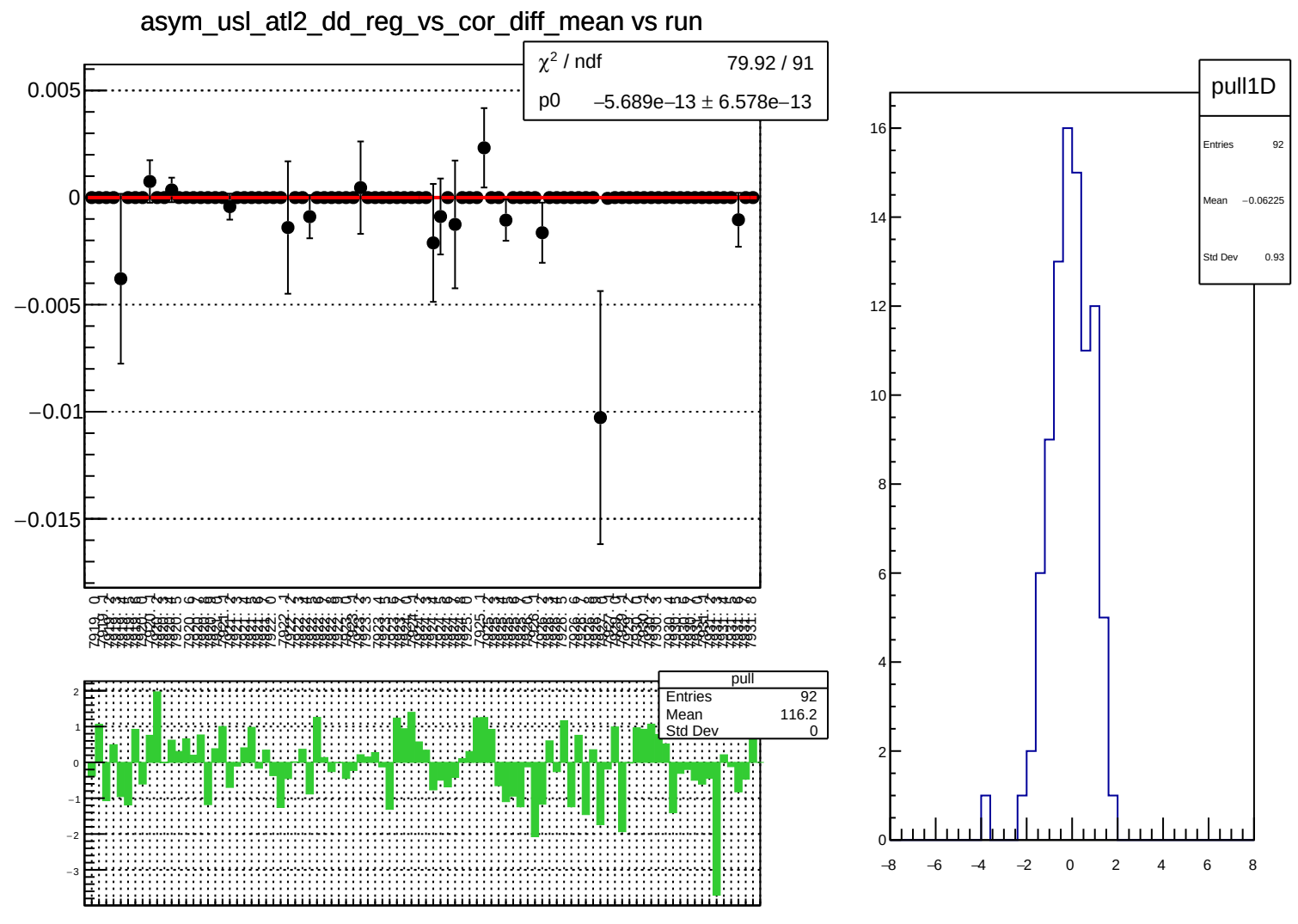

pull1D
Entries 92
Mean 0.004183
Std Dev 1.029
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

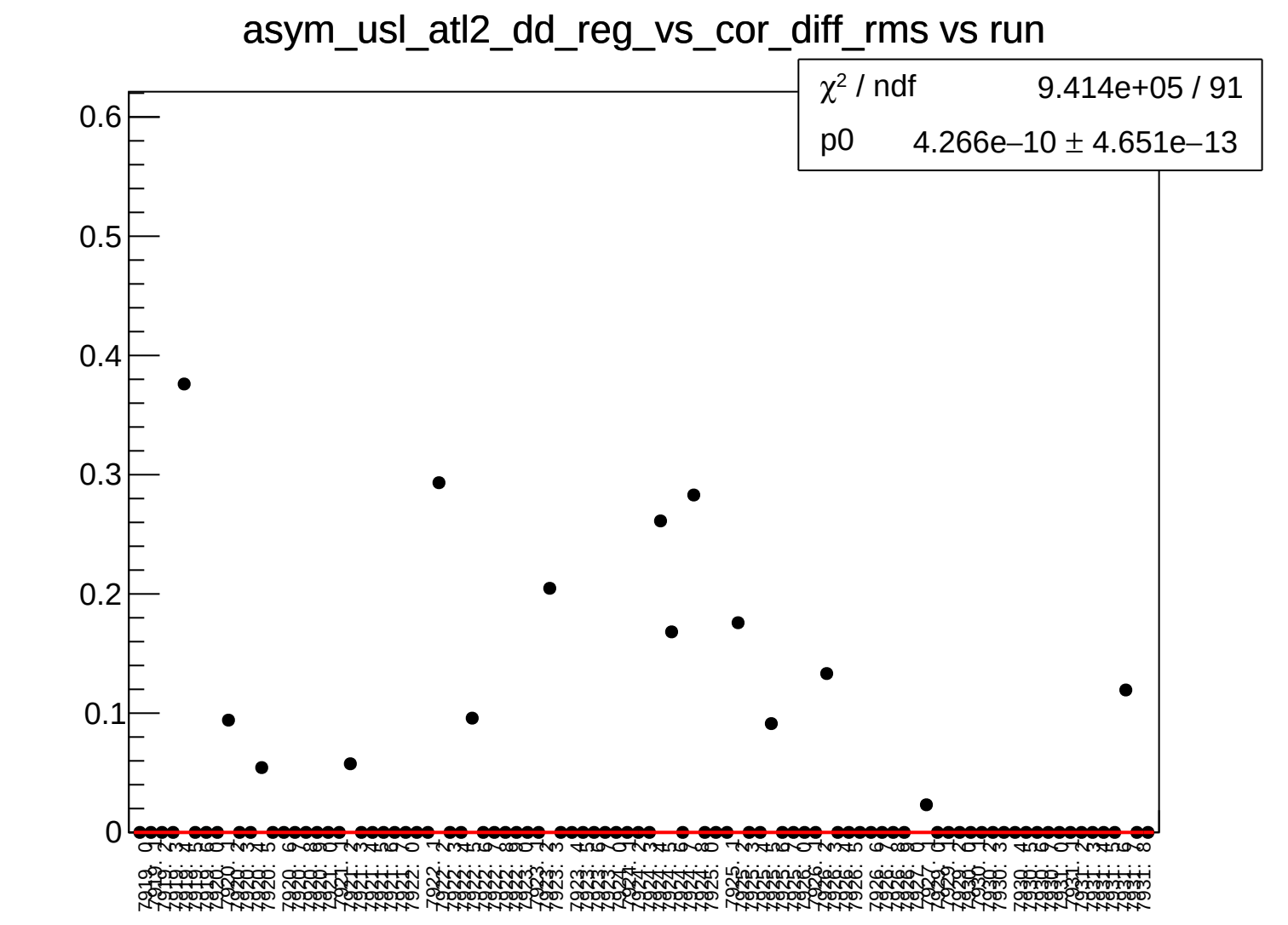

asym_usl_atl2_dd_eigen_dit_correction_rms vs run
χ² / ndf 2933 / 91
p0 4168 ± 3.124
5000
4800
4600
4400
4200
4000
3800

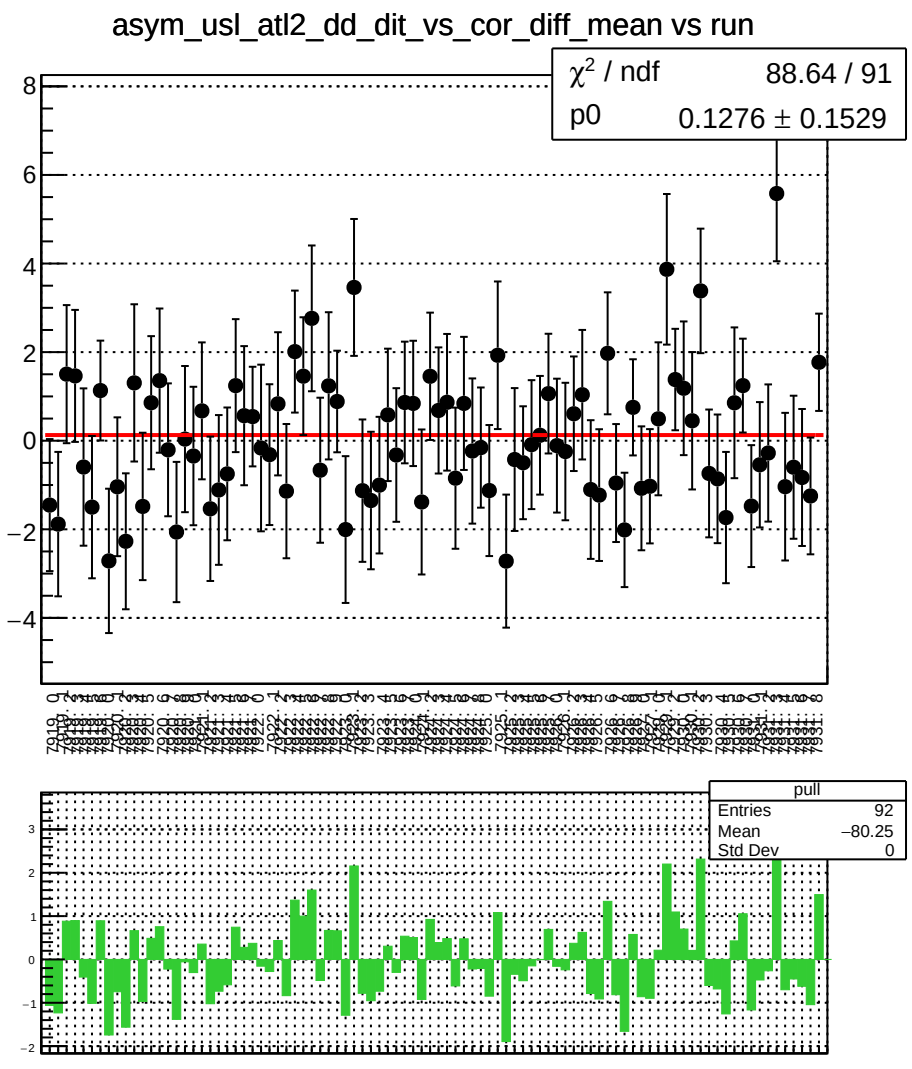

asym_usl_atl2_dd_mean vs run
×10^3
χ^2 / ndf 98.54 / 91
p0 6487 ± 4499
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean −690.8
Std Dev 0
2
1
0
−1
−2

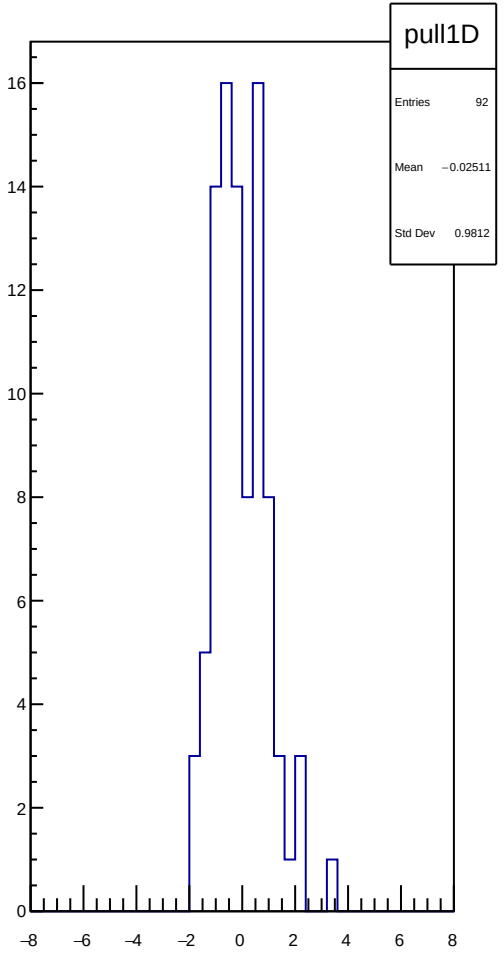

pull1D
Entries 92
Mean −0.004242
Std Dev 1.035
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

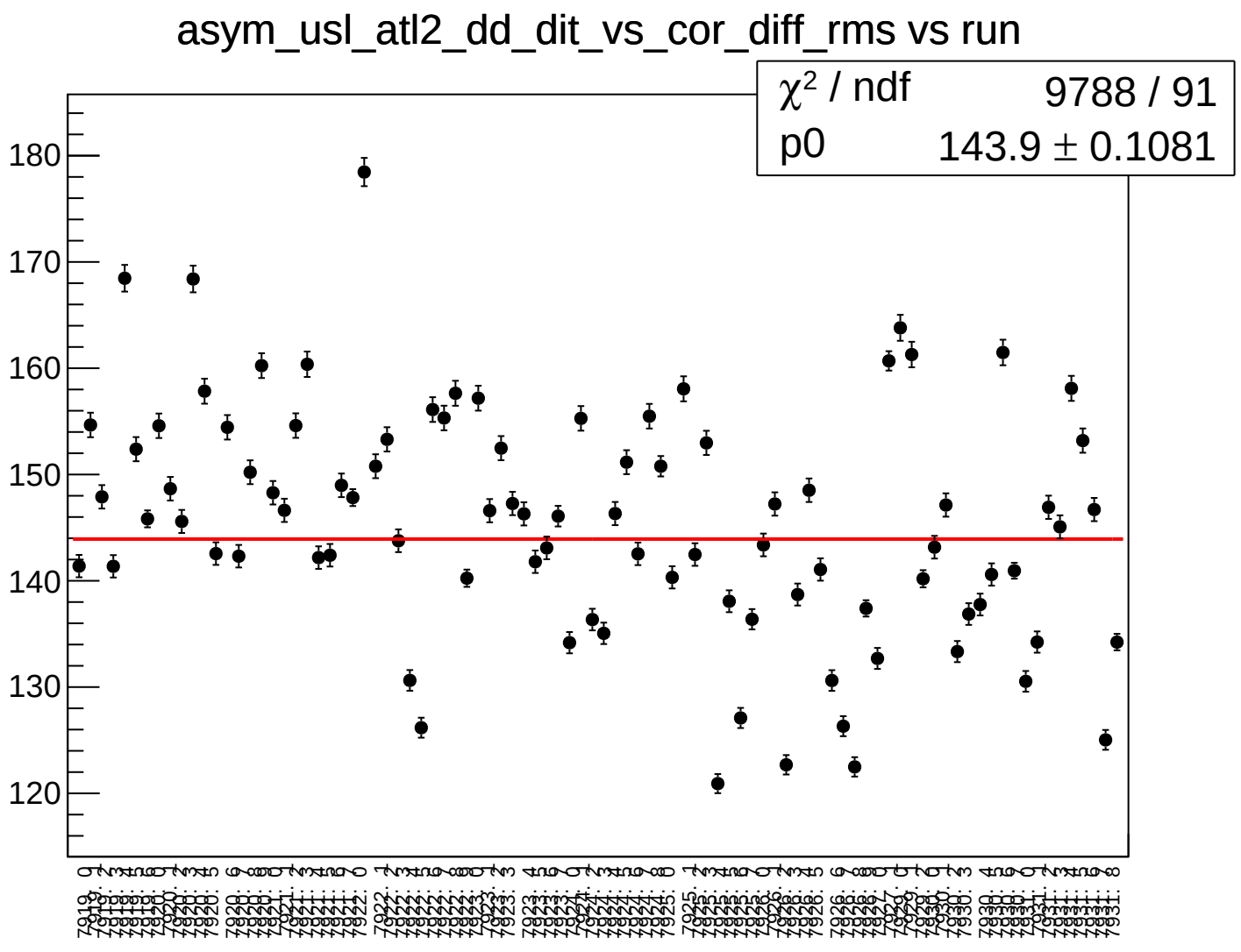

asym_usl_atl2_dd_rms vs run
χ^2 / ndf 2633 / 91
p0 4245 ± 3.181
5200
5000
4800
4600
4400
4200
4000
3800

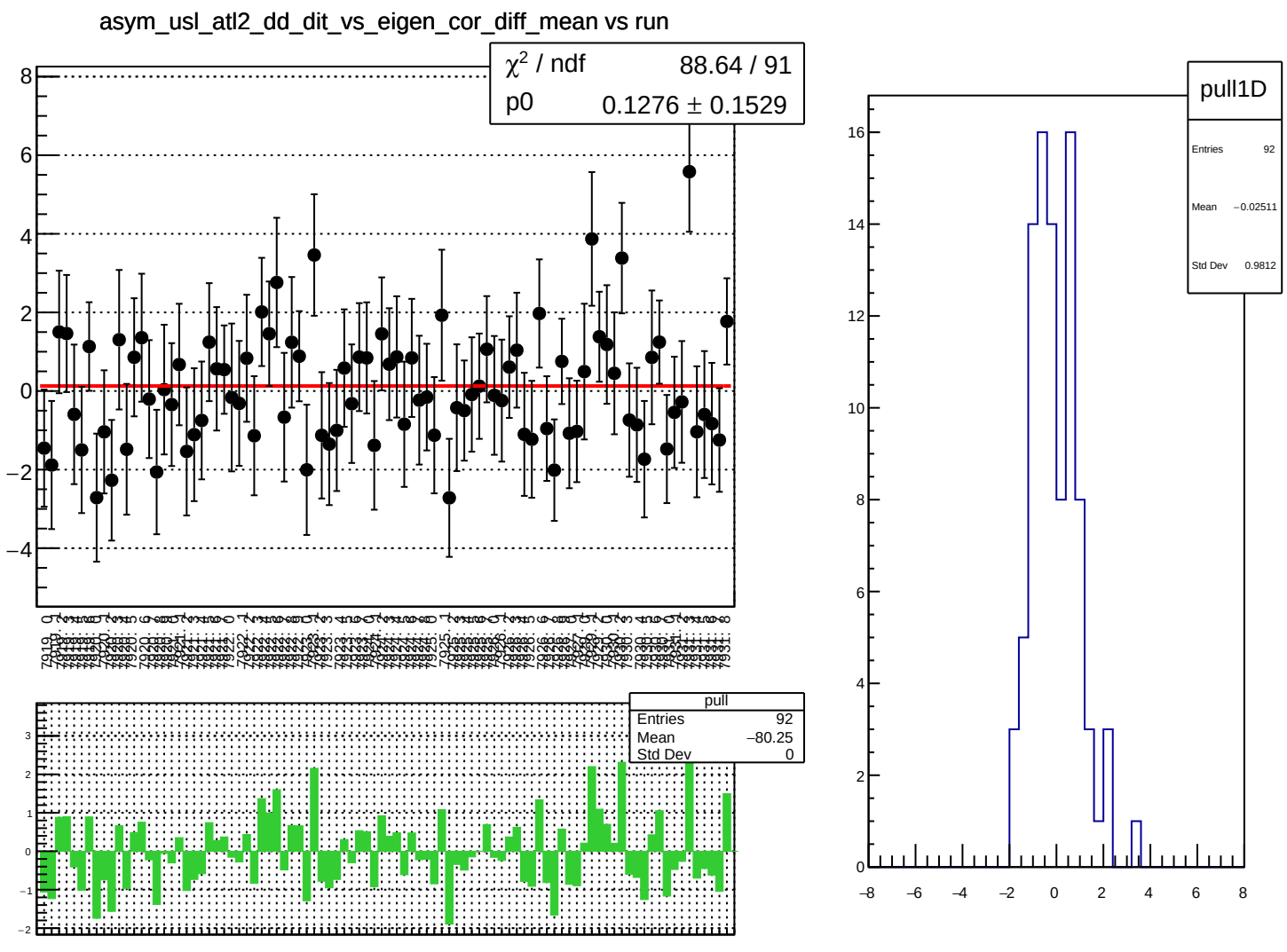

asym_usl_atl2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 79.92 / 91
p0 −5.689e−13 ± 6.578e−13
0.005
0
−0.005
−0.01
−0.015
pull
Entries 92
Mean 116.2
Std Dev 0
pull1D
Entries 92
Mean −0.06225
Std Dev 0.93

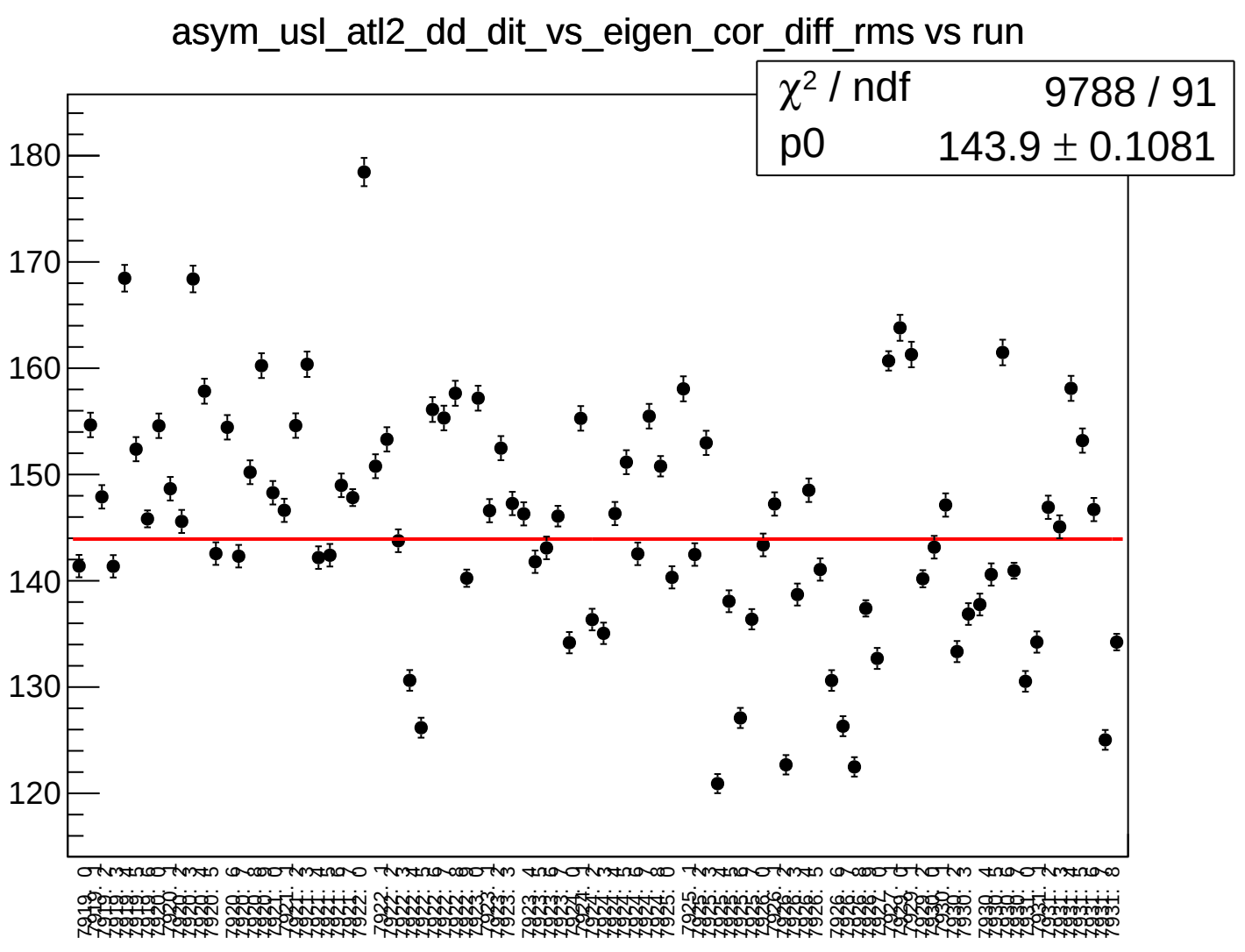

asym_usl_atl2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.414e+05 / 91
p0 4.266e−10 ± 4.651e−13
0.6
0.5
0.4
0.3
0.2
0.1
0

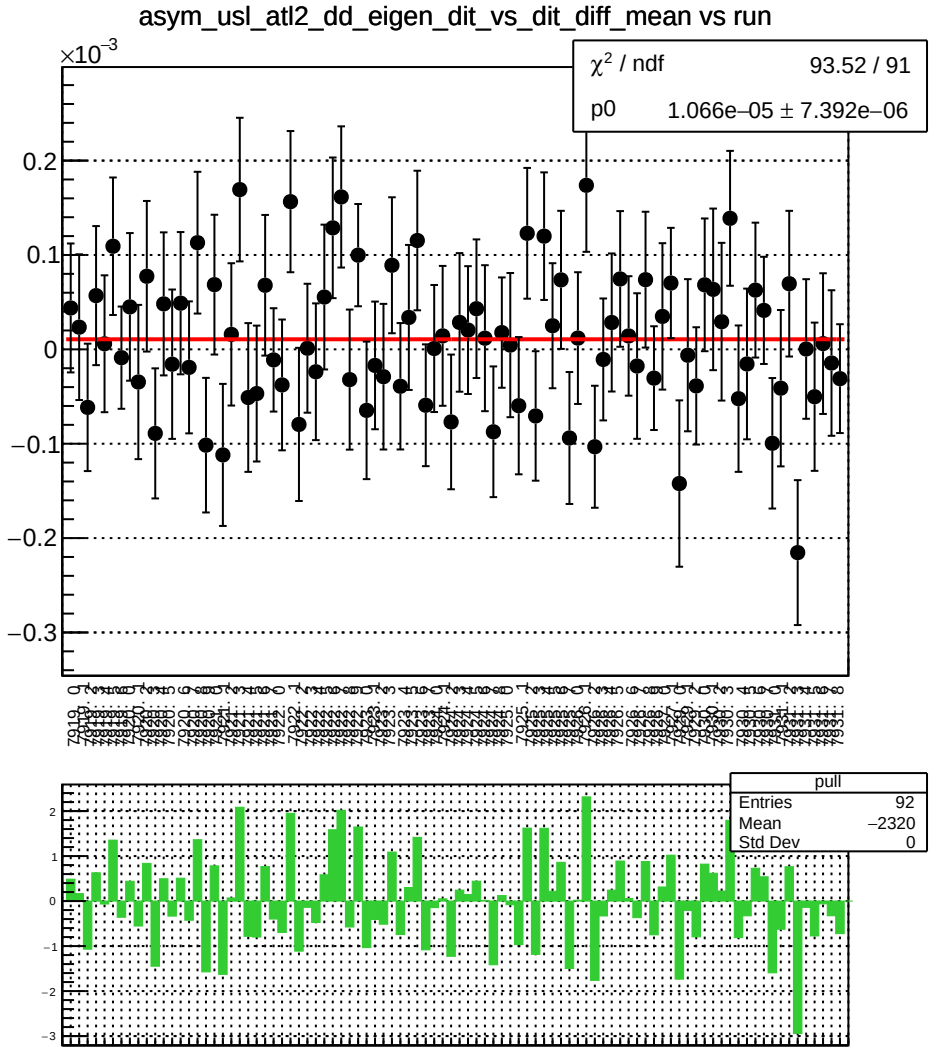

asym_usl_atl2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 88.64 / 91
p0 0.1276 ± 0.1529
pull
Entries 92
Mean −80.25
Std Dev 0

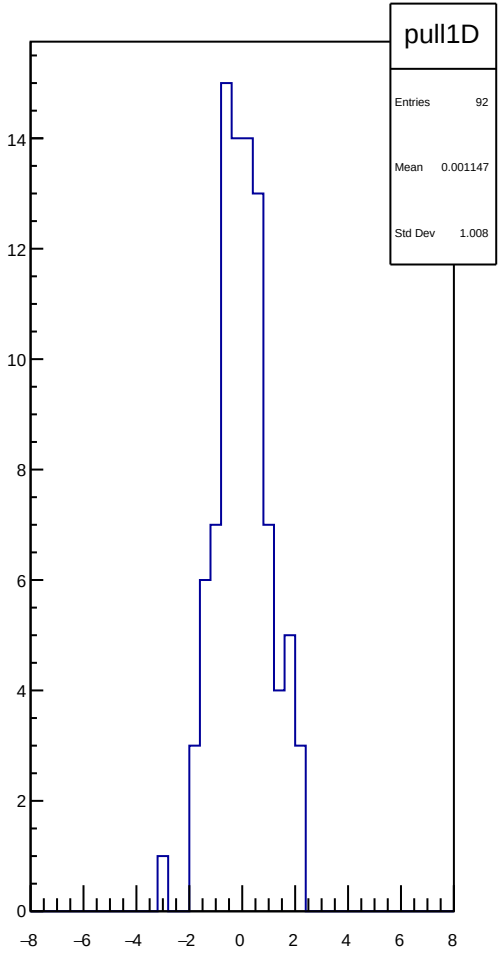

pull1D
Entries 92
Mean −0.02511
Std Dev 0.9812

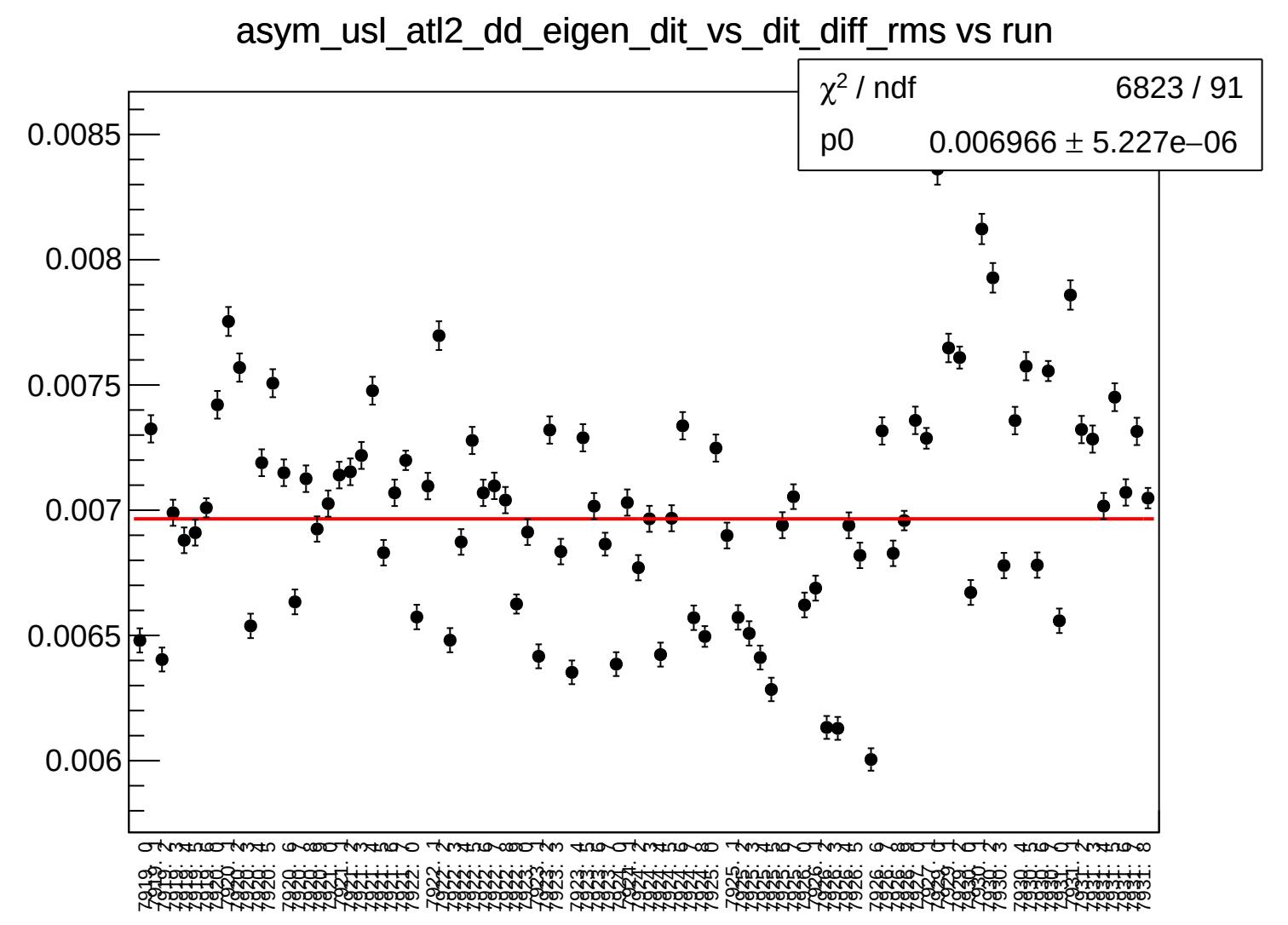

asym_usl_atl2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9788 / 91
p0 143.9 ± 0.1081
180
170
160
150
140
130
120

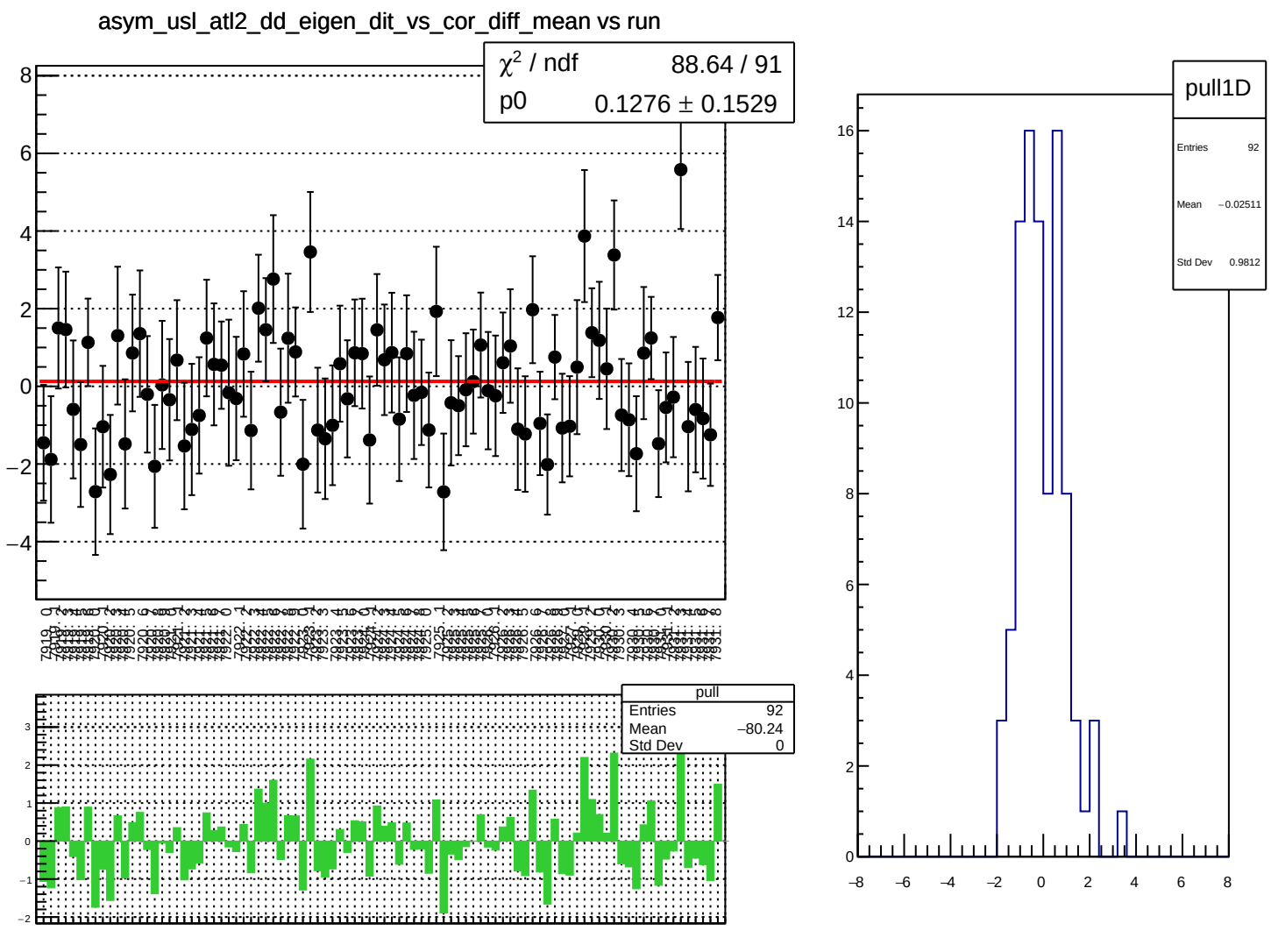

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.64 / 91
p0 0.1276 ± 0.1529
pull
Entries 92
Mean −80.25
Std Dev 0
pull1D
Entries 92
Mean −0.02511
Std Dev 0.9812

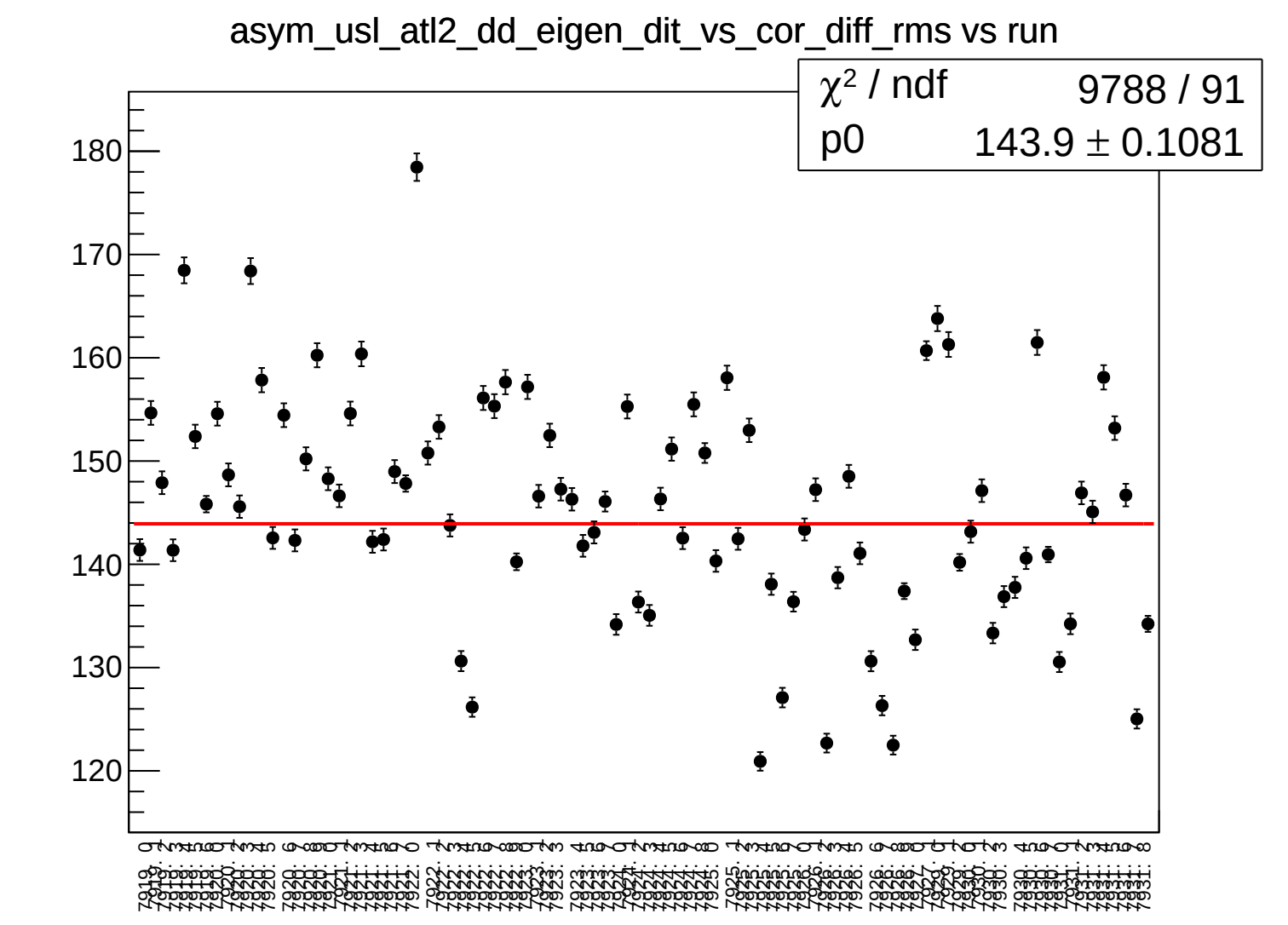

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9788 / 91
p0 143.9 ± 0.1081
180
170
160
150
140
130
120

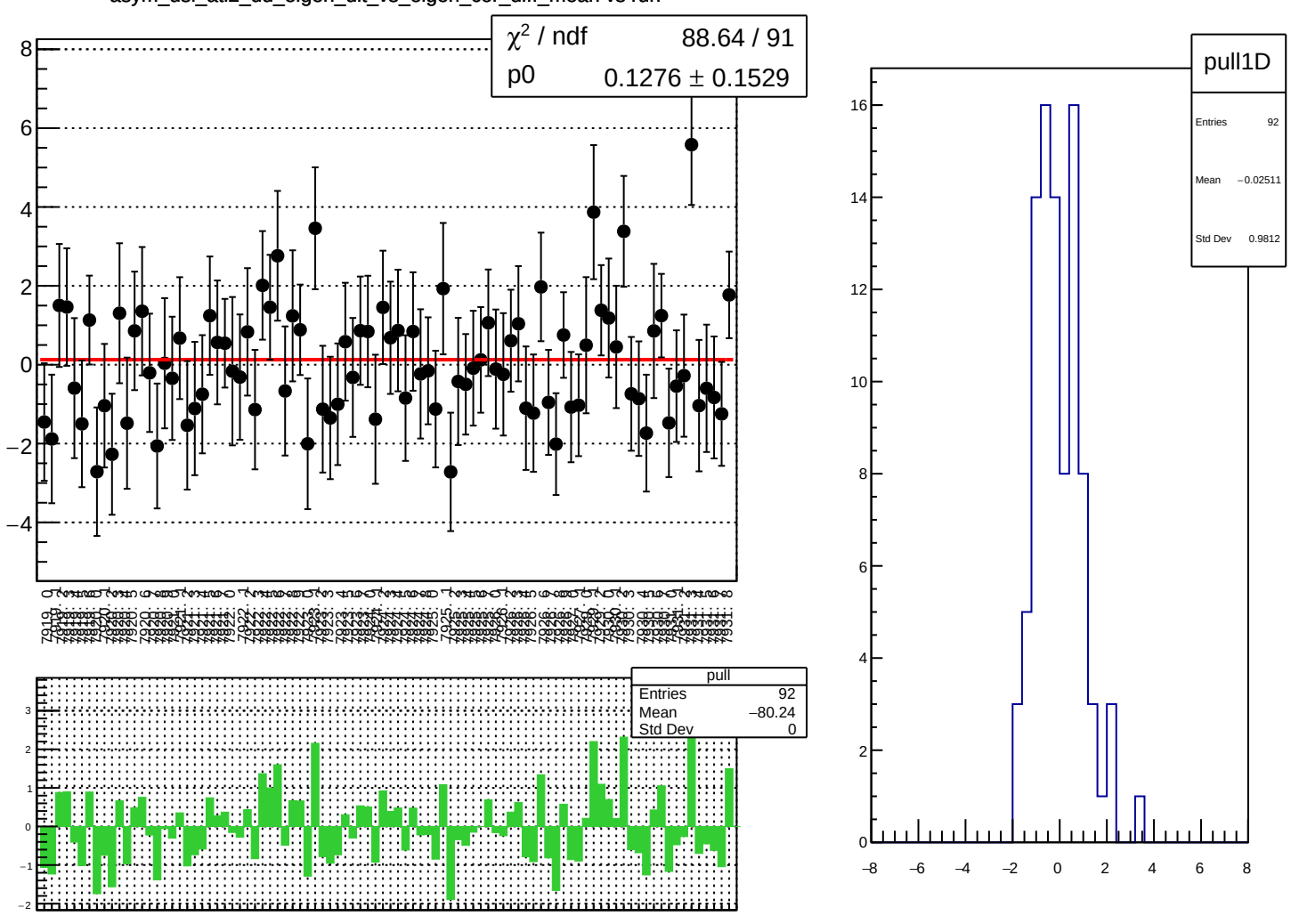

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93.52 / 91
p0 1.066e−05 ± 7.392e−06
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 92
Mean −2320
Std Dev 0
2
1
0
−1
−2
−3

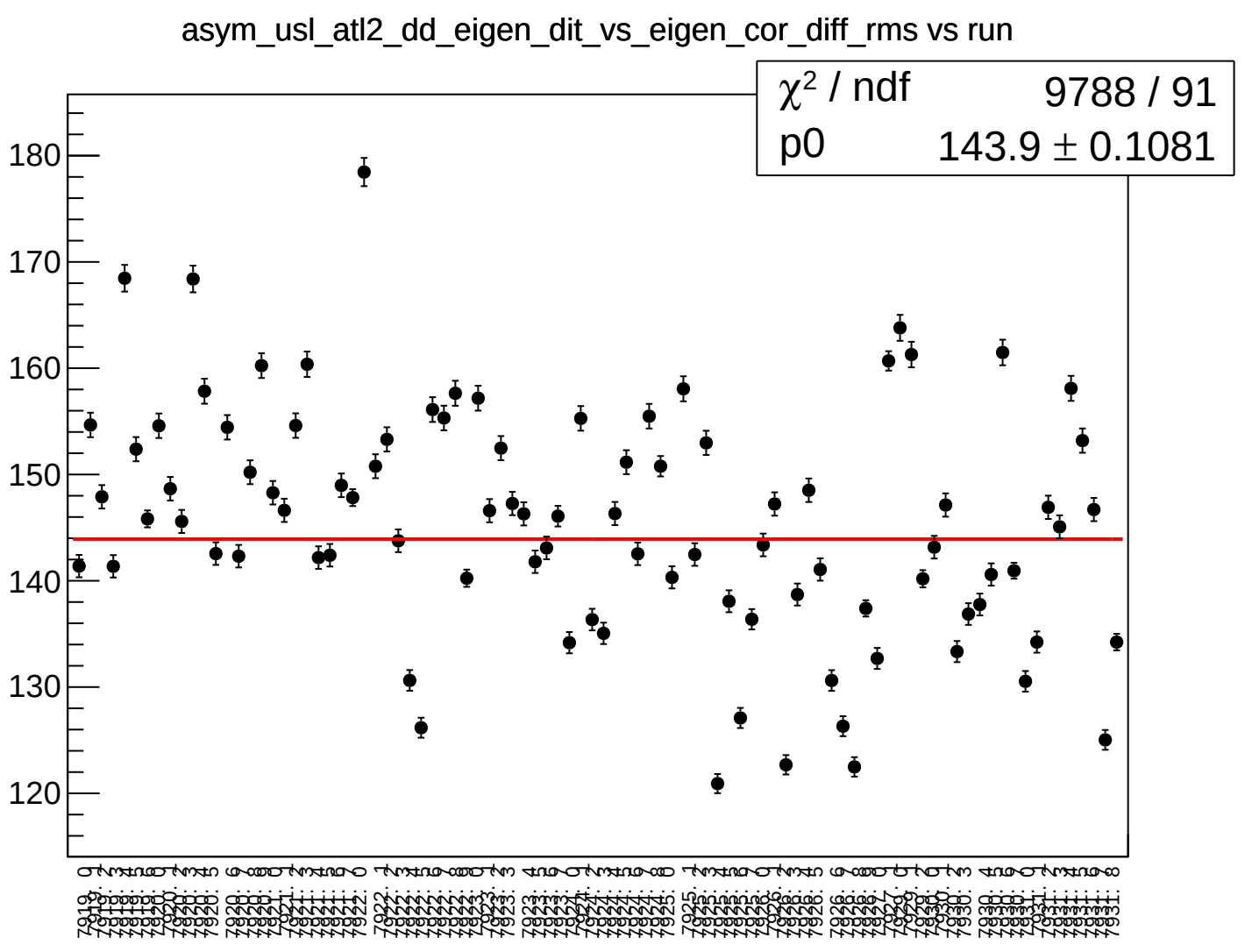

pull1D
Entries 92
Mean 0.001147
Std Dev 1.008
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

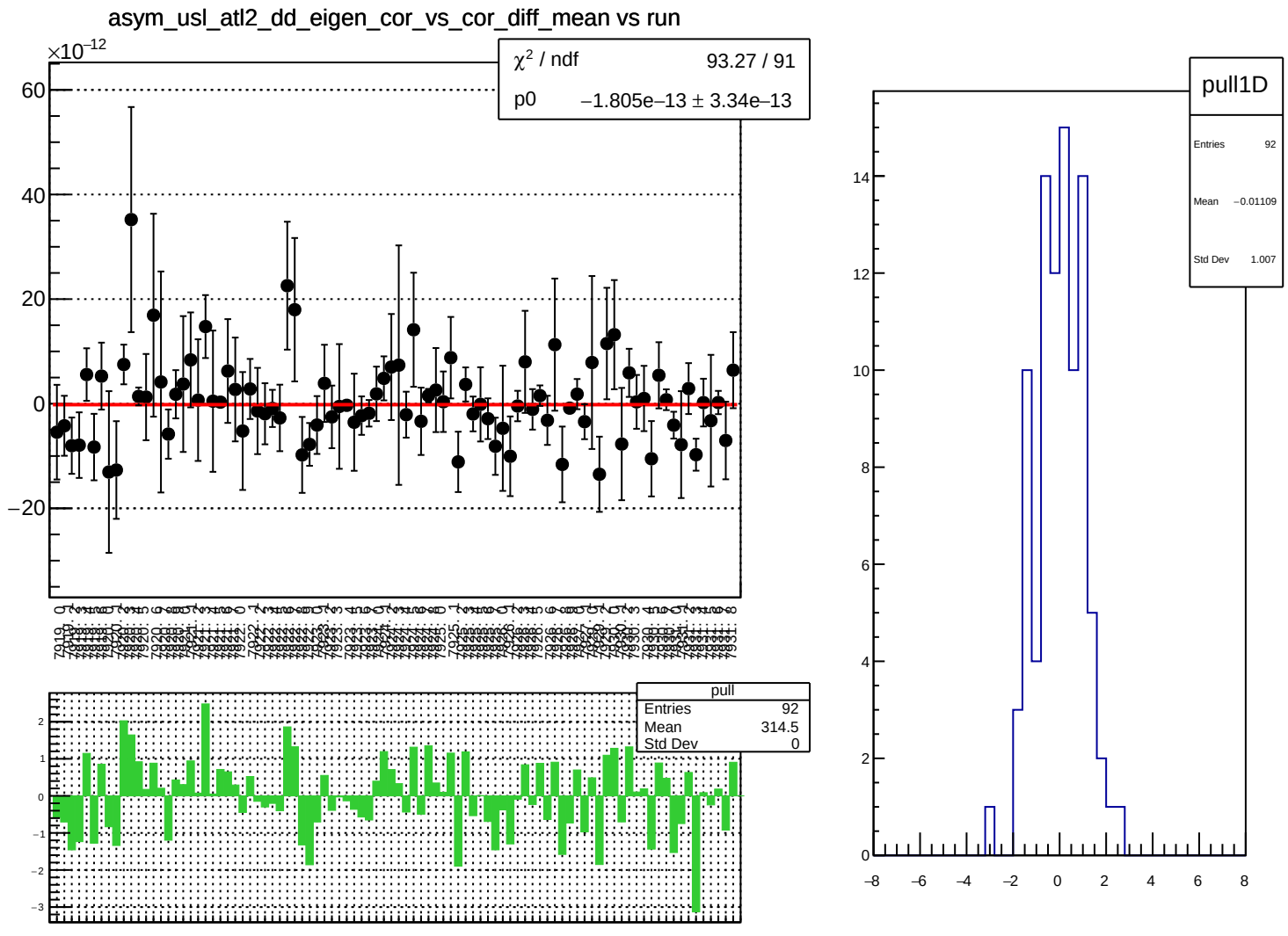

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6823 / 91
p0 0.006966 ± 5.227e−06
0.0085
0.008
0.0075
0.007
0.0065
0.006

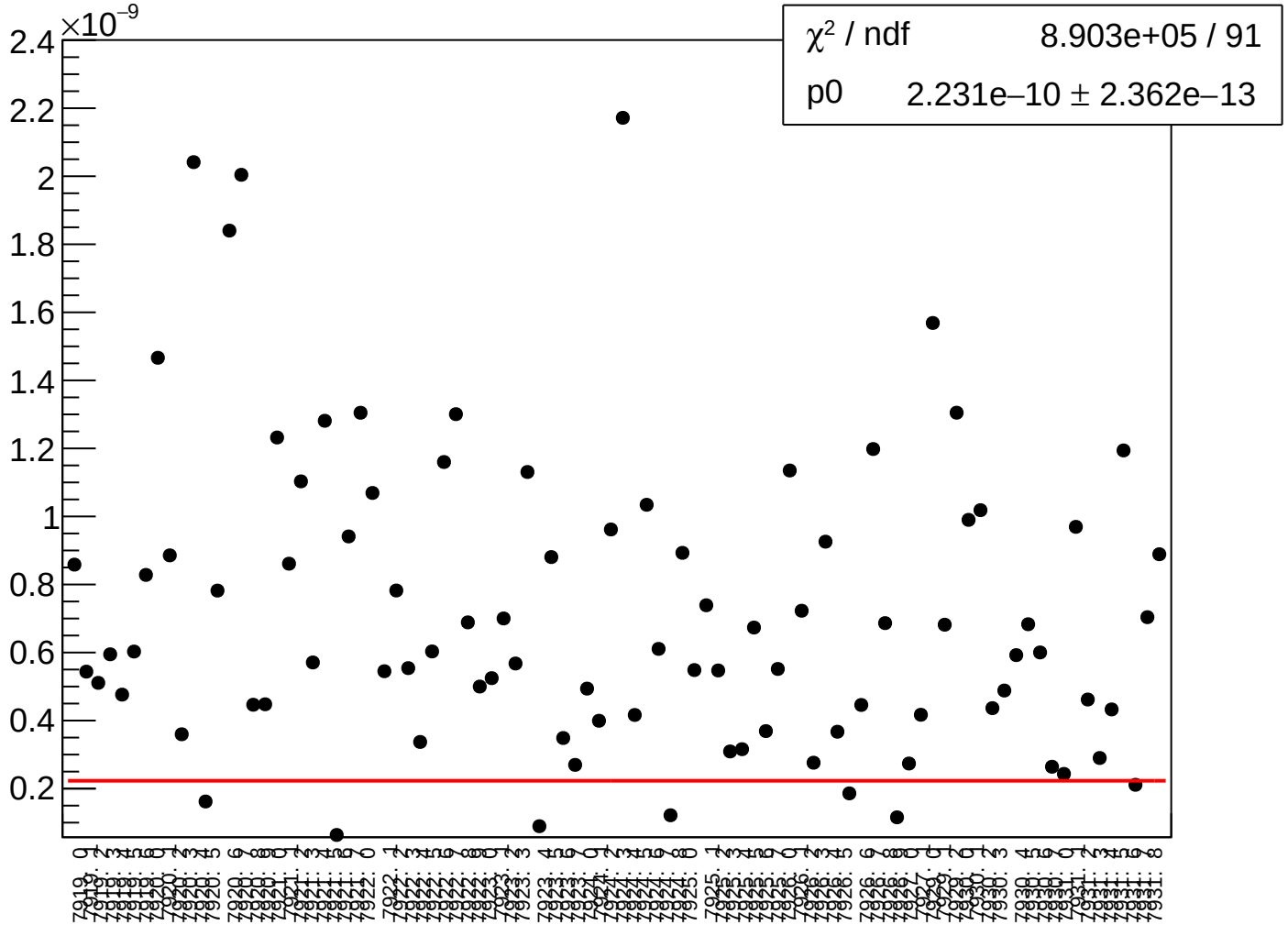

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.64 / 91
p0 0.1276 ± 0.1529
pull
Entries 92
Mean −80.24
Std Dev 0
pull1D
Entries 92
Mean −0.02511
Std Dev 0.9812

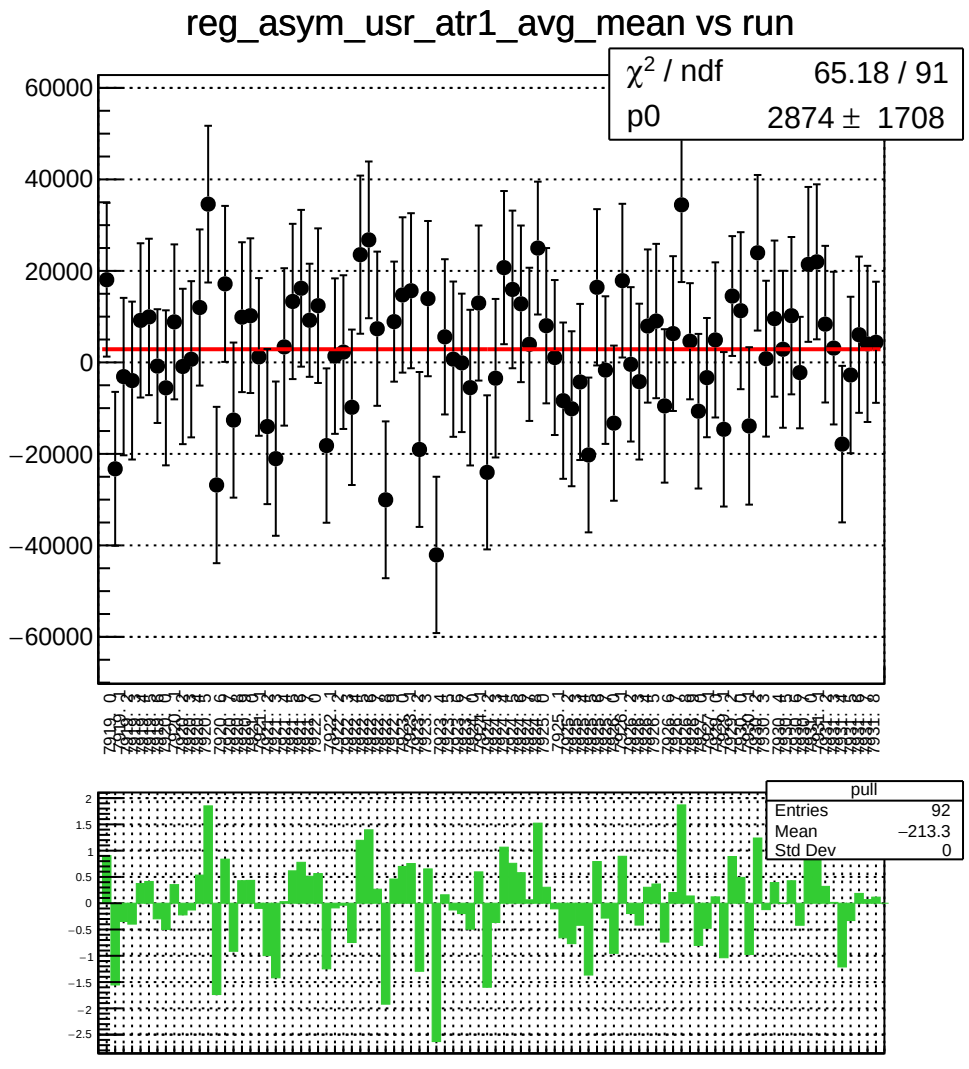

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9788 / 91
p0 143.9 ± 0.1081
180
170
160
150
140
130
120

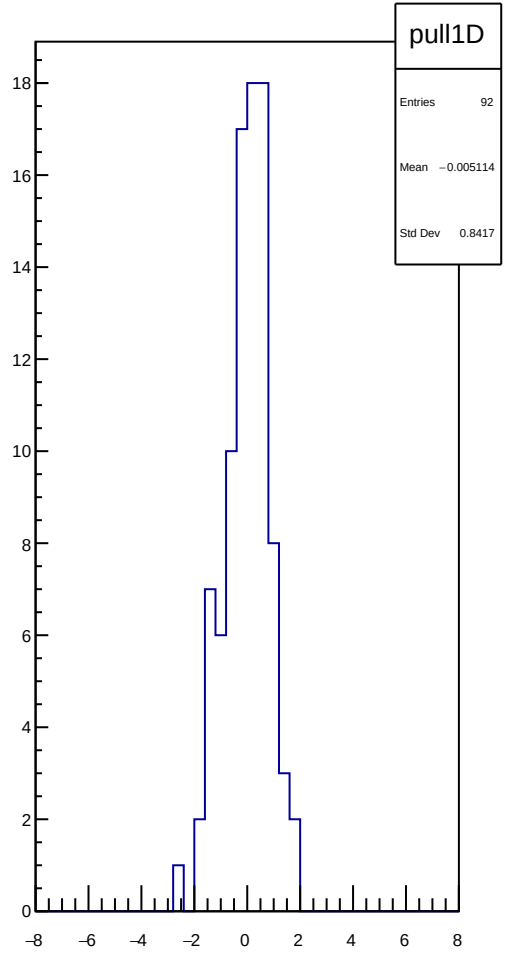

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.64 / 91
p0 0.1276 ± 0.1529
pull
Entries 92
Mean −80.24
Std Dev 0
pull1D
Entries 92
Mean −0.02511
Std Dev 0.9812

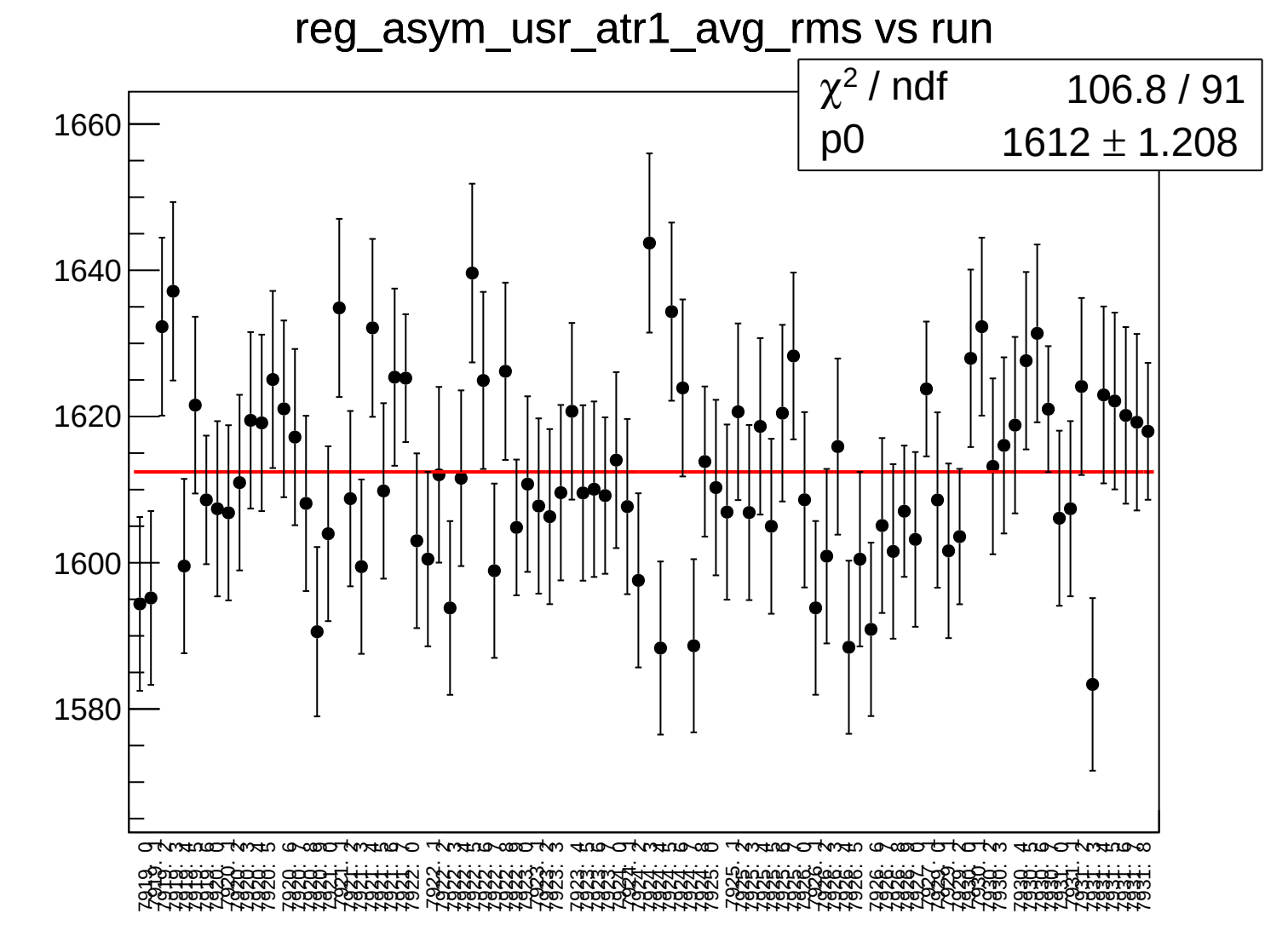

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9788 / 91
p0 143.9 ± 0.1081
180
170
160
150
140
130
120

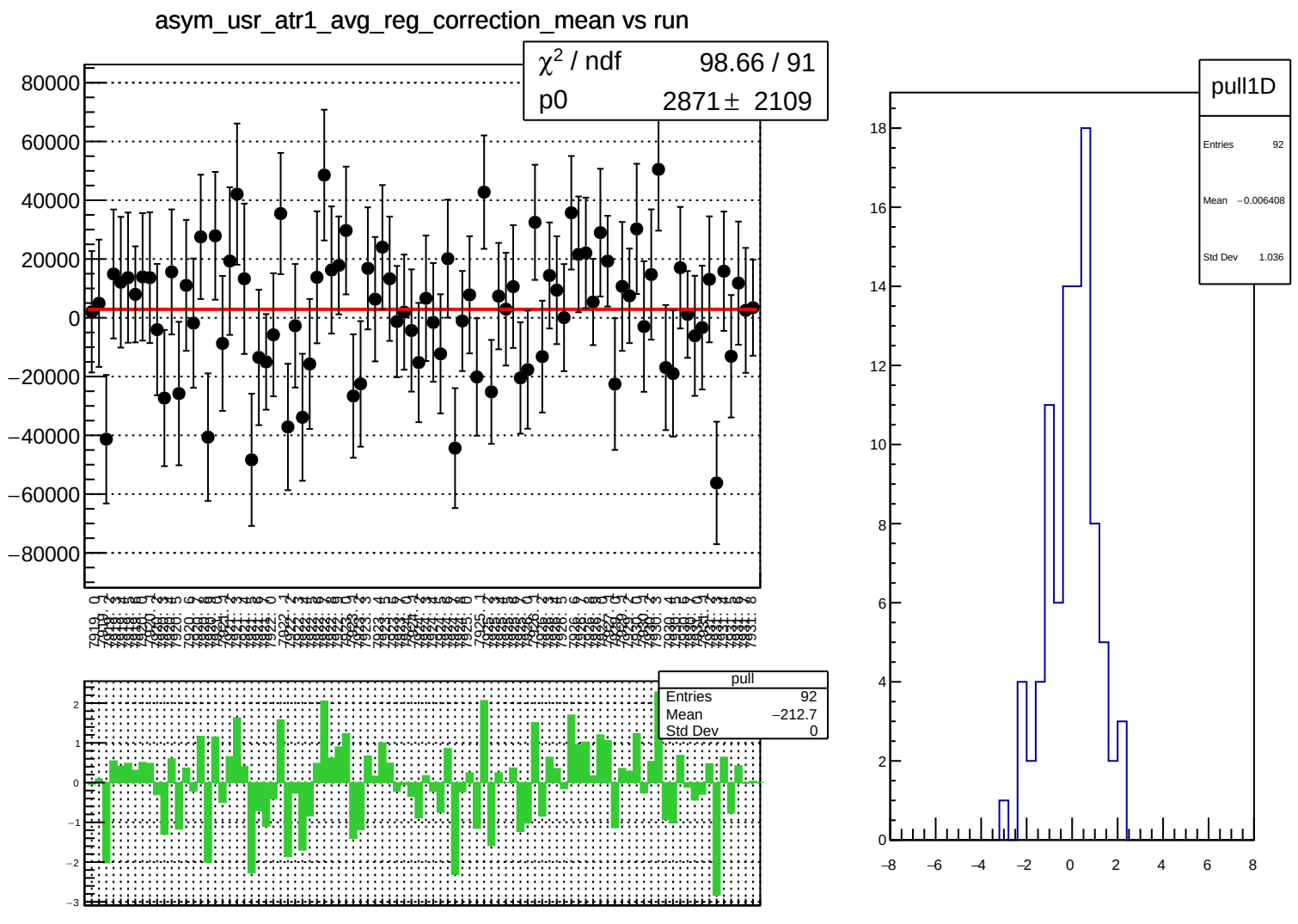

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.27 / 91
p0 −1.805e−13 ± 3.34e−13
60
40
20
0
−20
pull
Entries 92
Mean 314.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.01109
Std Dev 1.007
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

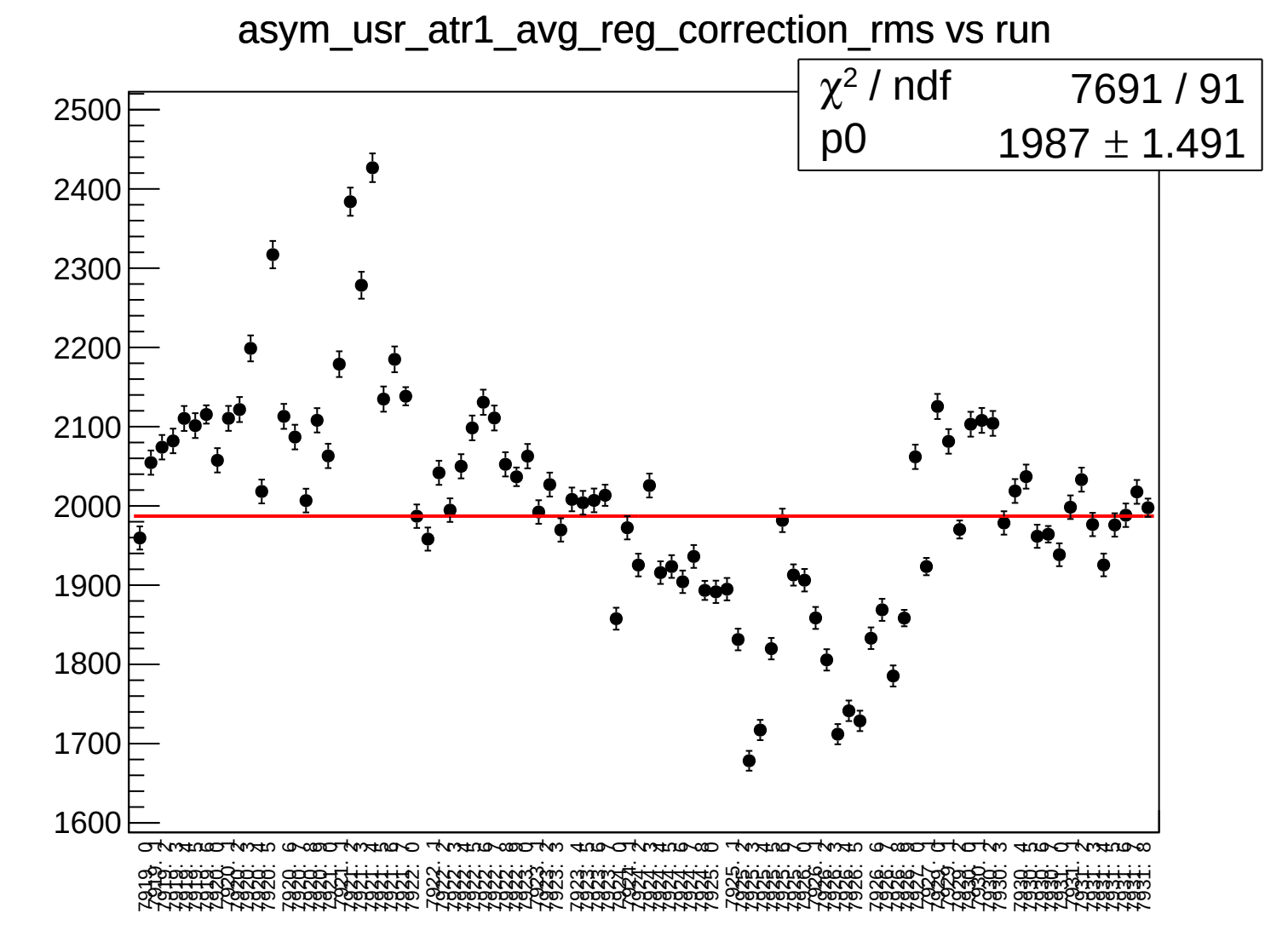

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.903e+05 / 91
p0 2.231e−10 ± 2.362e−13
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

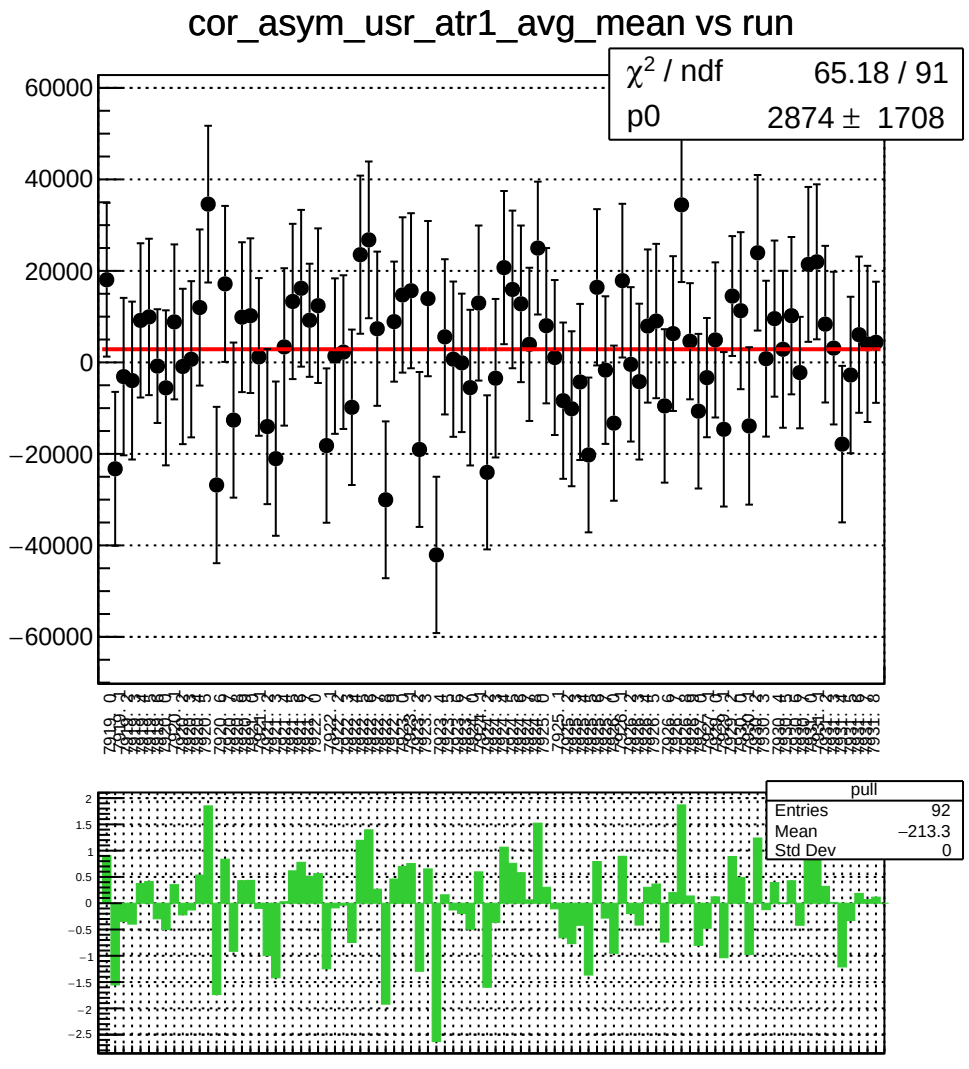

reg_asym_usr_atr1_avg_mean vs run
χ² / ndf 65.18 / 91
p0 2874 ± 1708
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −213.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

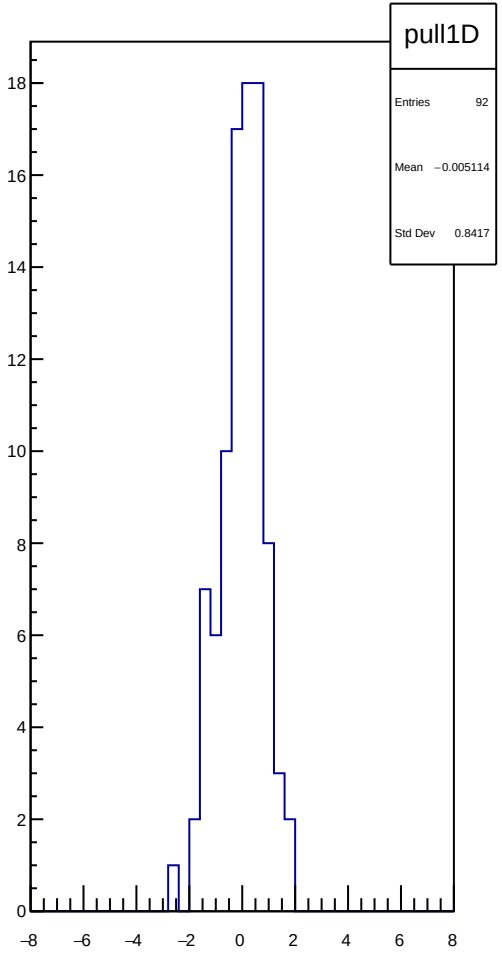

pull1D
Entries 92
Mean −0.005114
Std Dev 0.8417
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

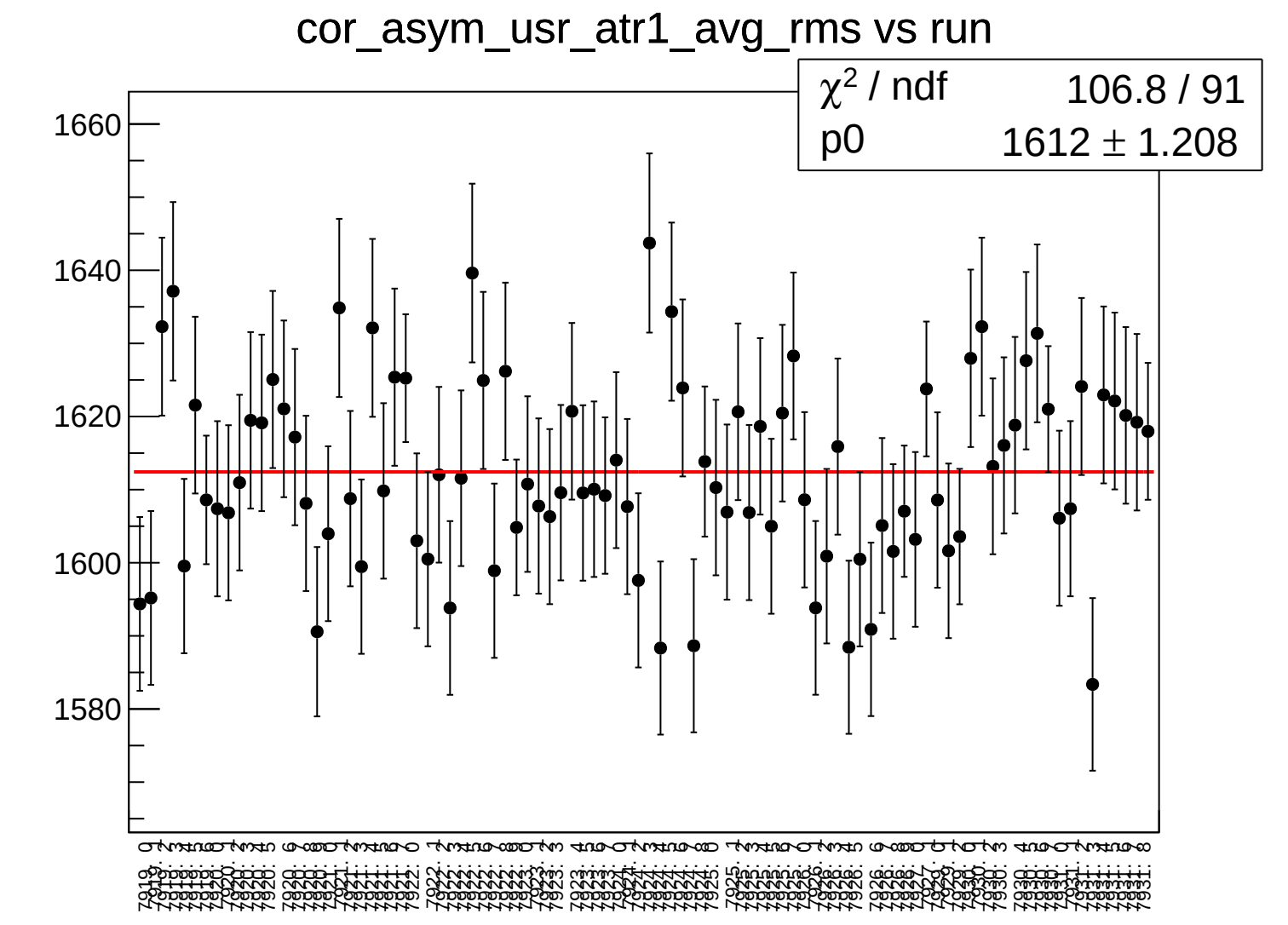

reg_asym_usr_atr1_avg_rms vs run
χ² / ndf 106.8 / 91
p0 1612 ± 1.208
1660
1640
1620
1600
1580

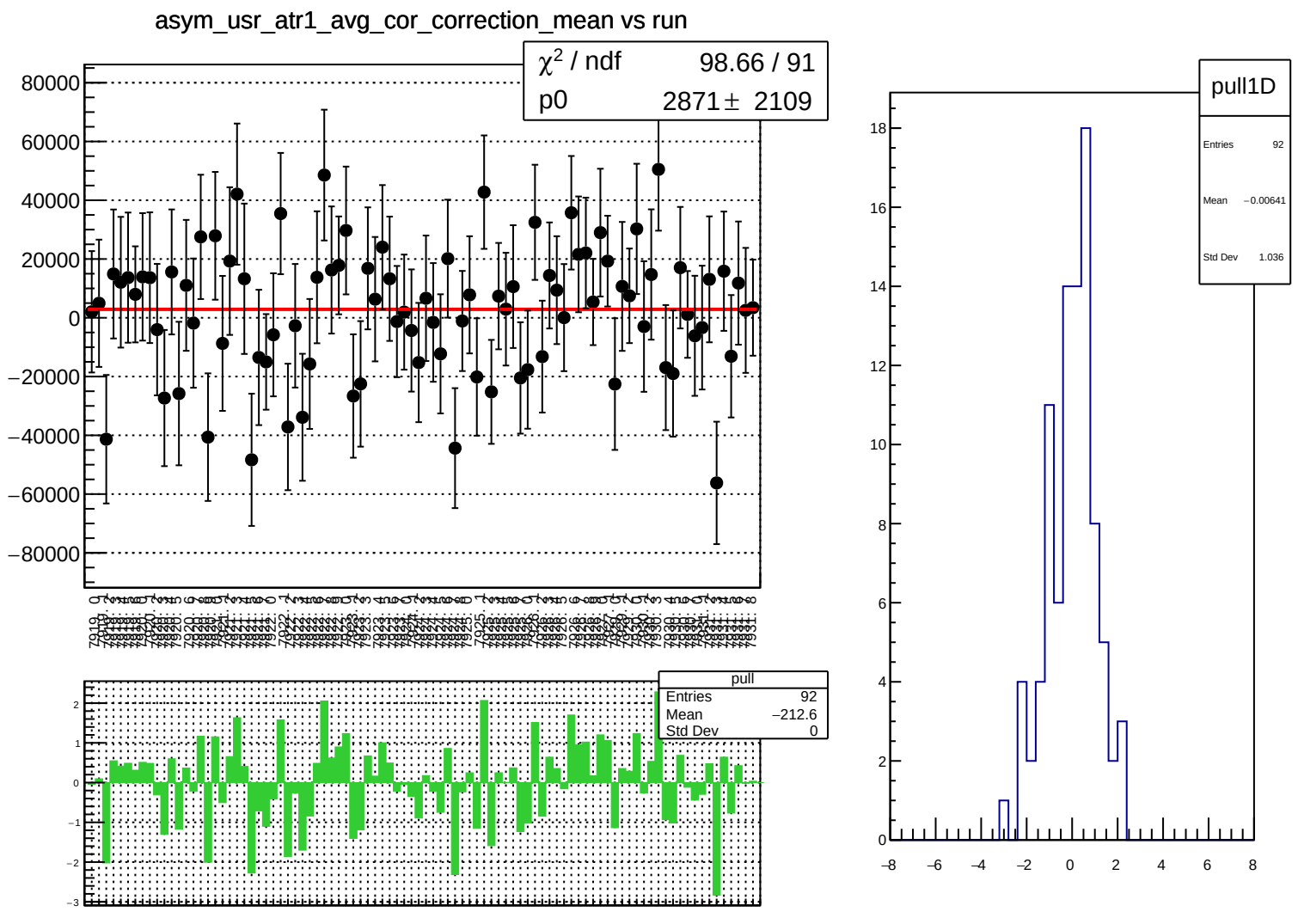

asym_usr_atr1_avg_reg_correction_mean vs run
χ² / ndf 98.66 / 91
p0 2871 ± 2109
pull
Entries 92
Mean −212.7
Std Dev 0
pull1D
Entries 92
Mean −0.006408
Std Dev 1.036

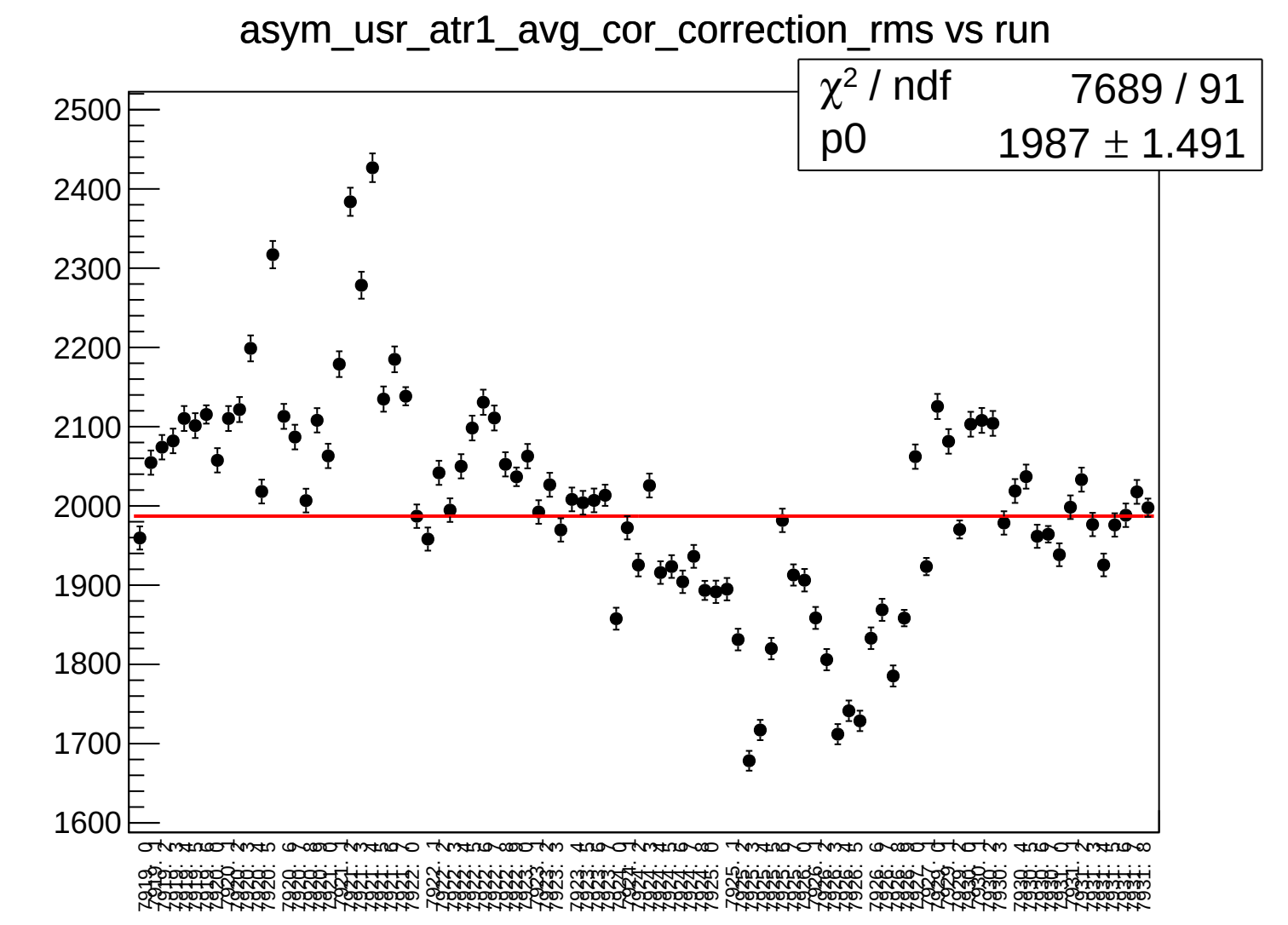

asym_usr_atr1_avg_reg_correction_rms vs run
χ² / ndf 7691 / 91
p0 1987 ± 1.491
2500
2400
2300
2200
2100
2000
1900
1800
1700
1600

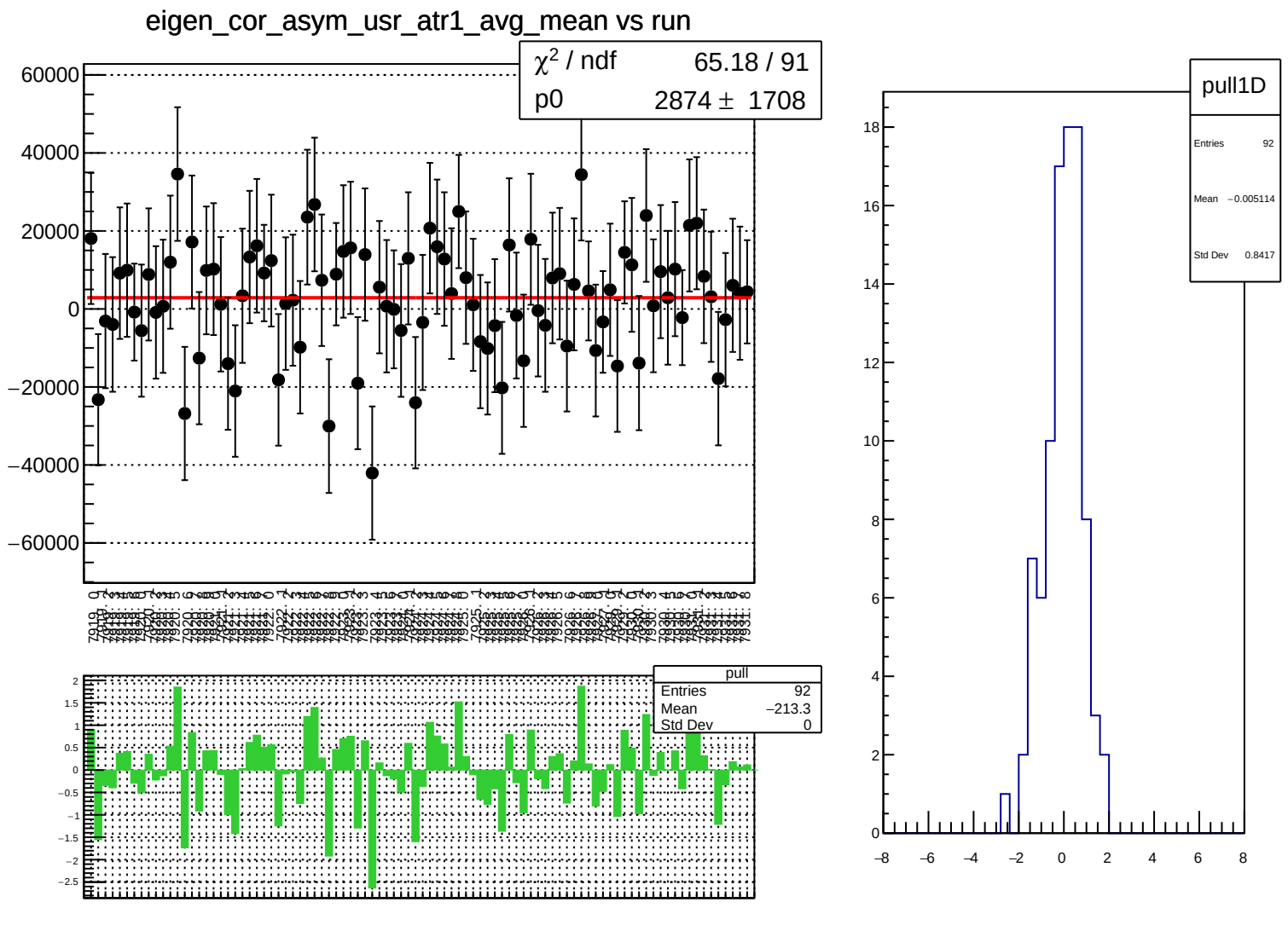

cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 65.18 / 91
p0 2874 ± 1708
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −213.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

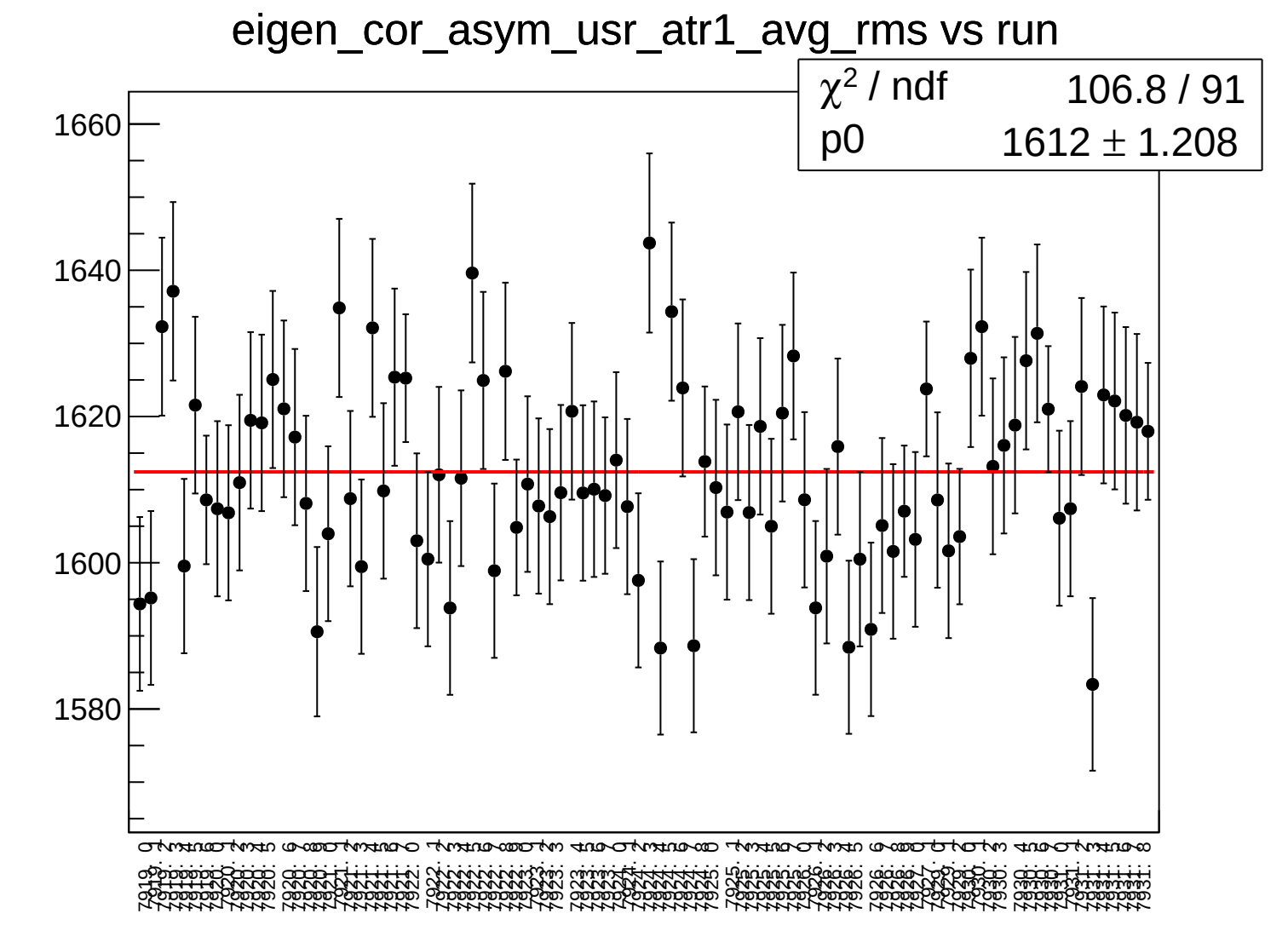

pull1D
Entries 92
Mean −0.005114
Std Dev 0.8417
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

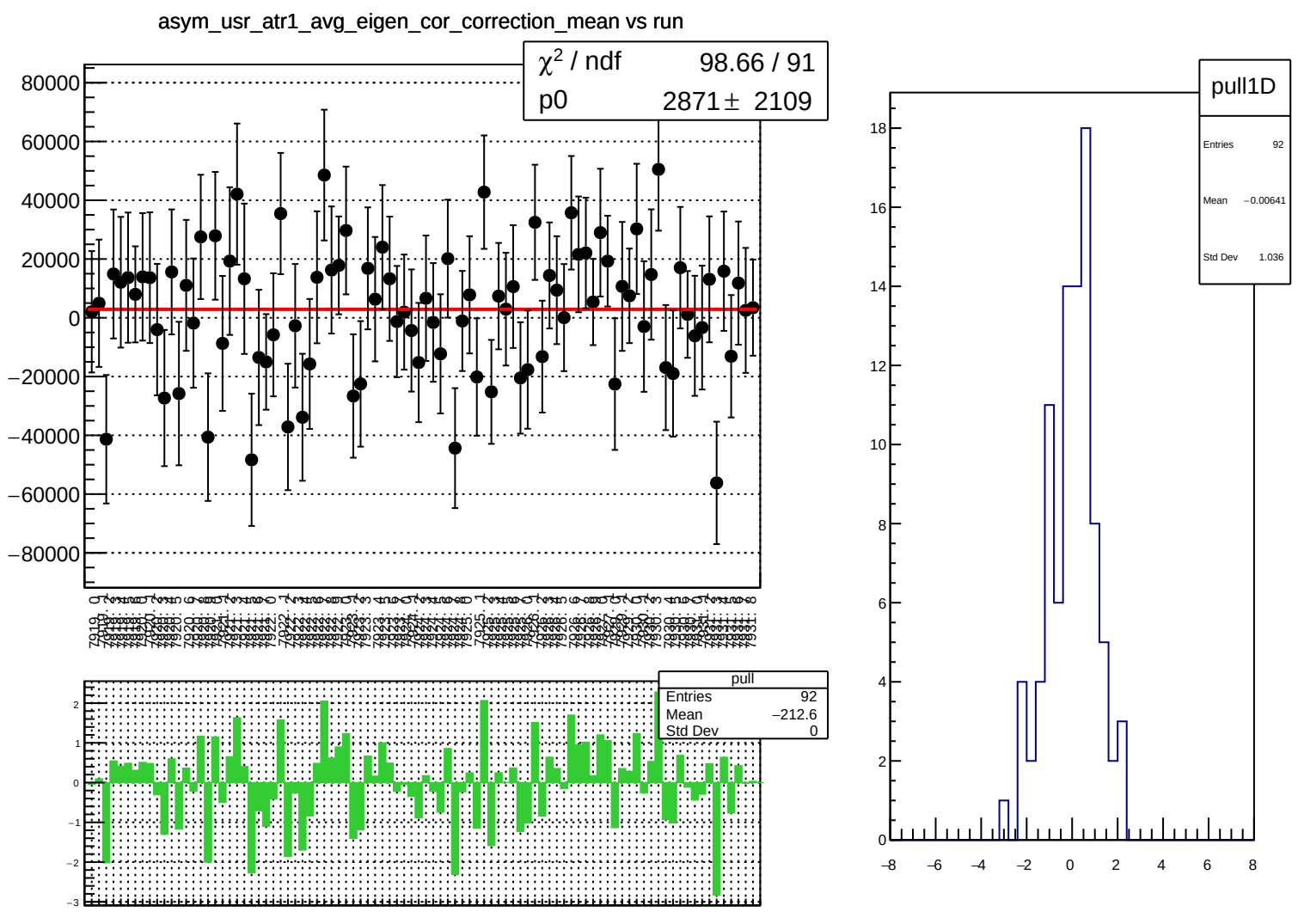

cor_asym_usr_atr1_avg_rms vs run
χ^2 / ndf 106.8 / 91
p0 1612 ± 1.208
1660
1640
1620
1600
1580

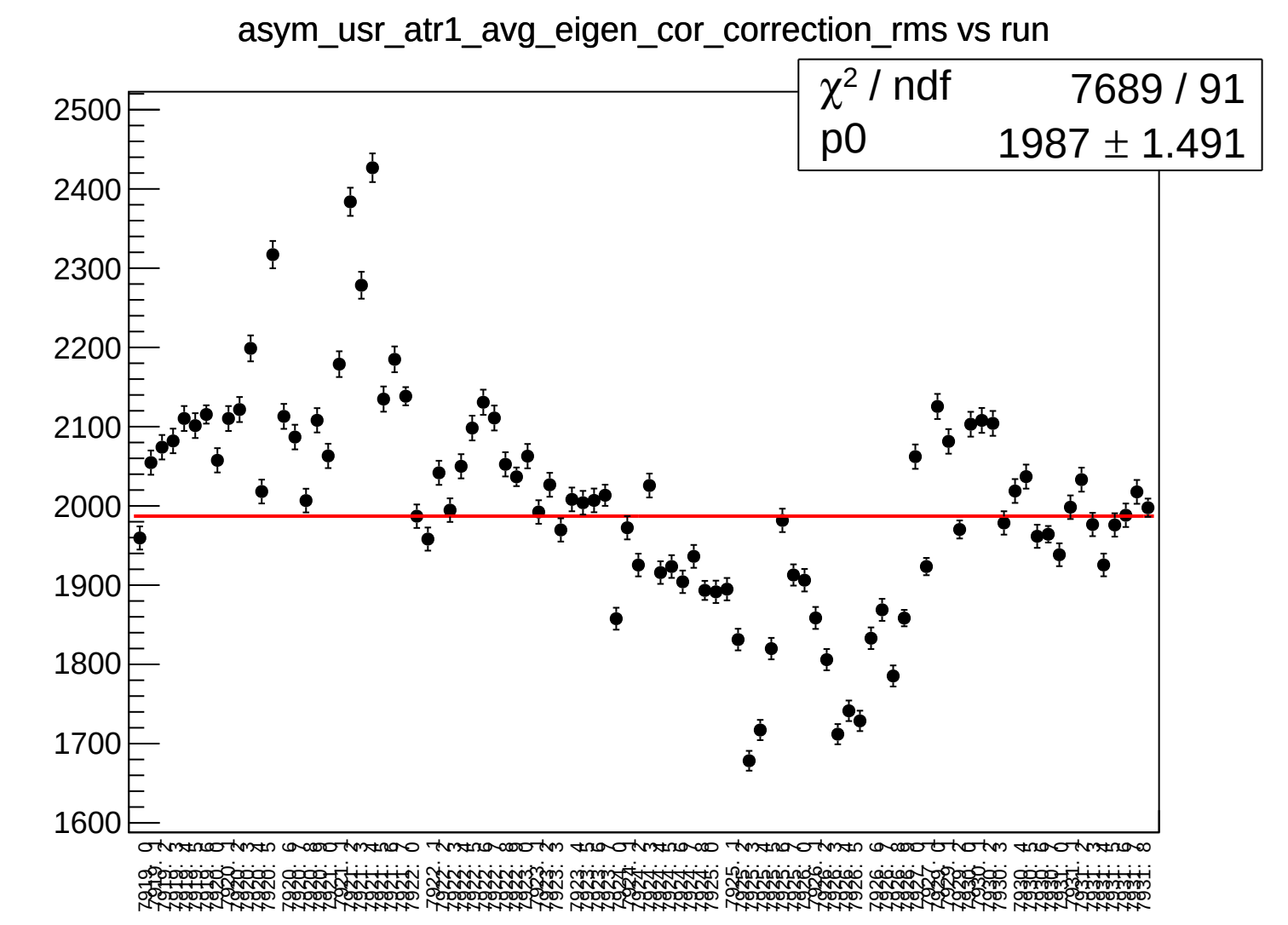

asym_usr_atr1_avg_cor_correction_mean vs run
χ² / ndf 98.66 / 91
p0 2871 ± 2109
pull
Entries 92
Mean −212.6
Std Dev 0
pull1D
Entries 92
Mean −0.00641
Std Dev 1.036

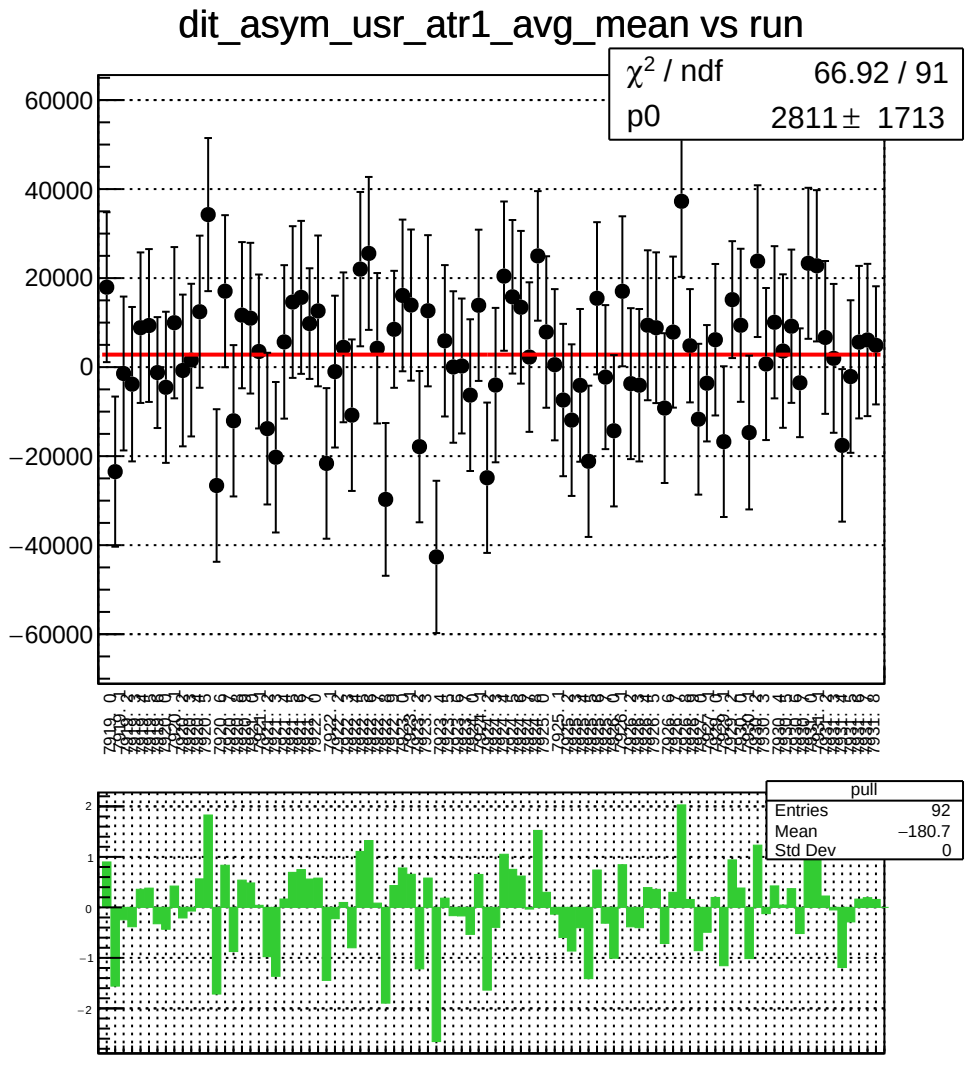

asym_usr_atr1_avg_cor_correction_rms vs run
χ² / ndf 7689 / 91
p0 1987 ± 1.491
2500
2400
2300
2200
2100
2000
1900
1800
1700
1600

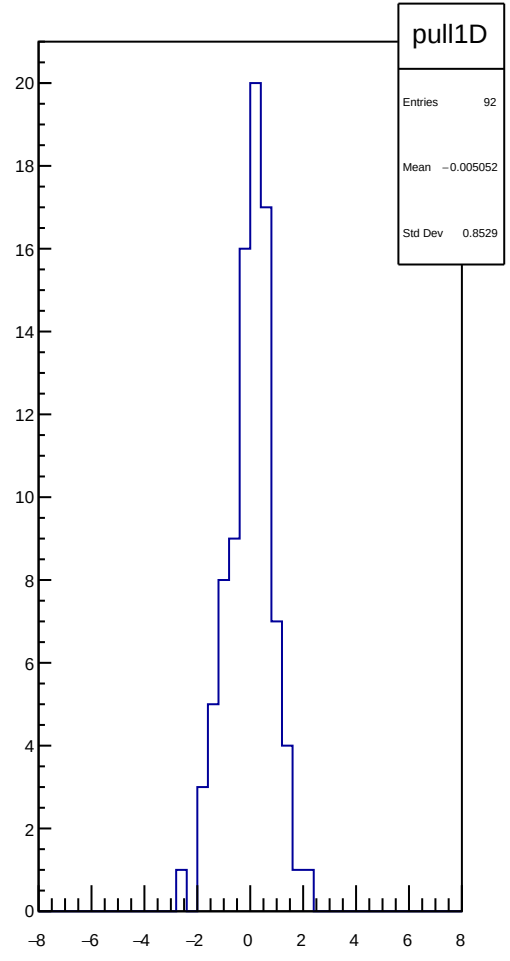

eigen_cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 65.18 / 91
p0 2874 ± 1708
pull
Entries 92
Mean −213.3
Std Dev 0
pull1D
Entries 92
Mean −0.005114
Std Dev 0.8417

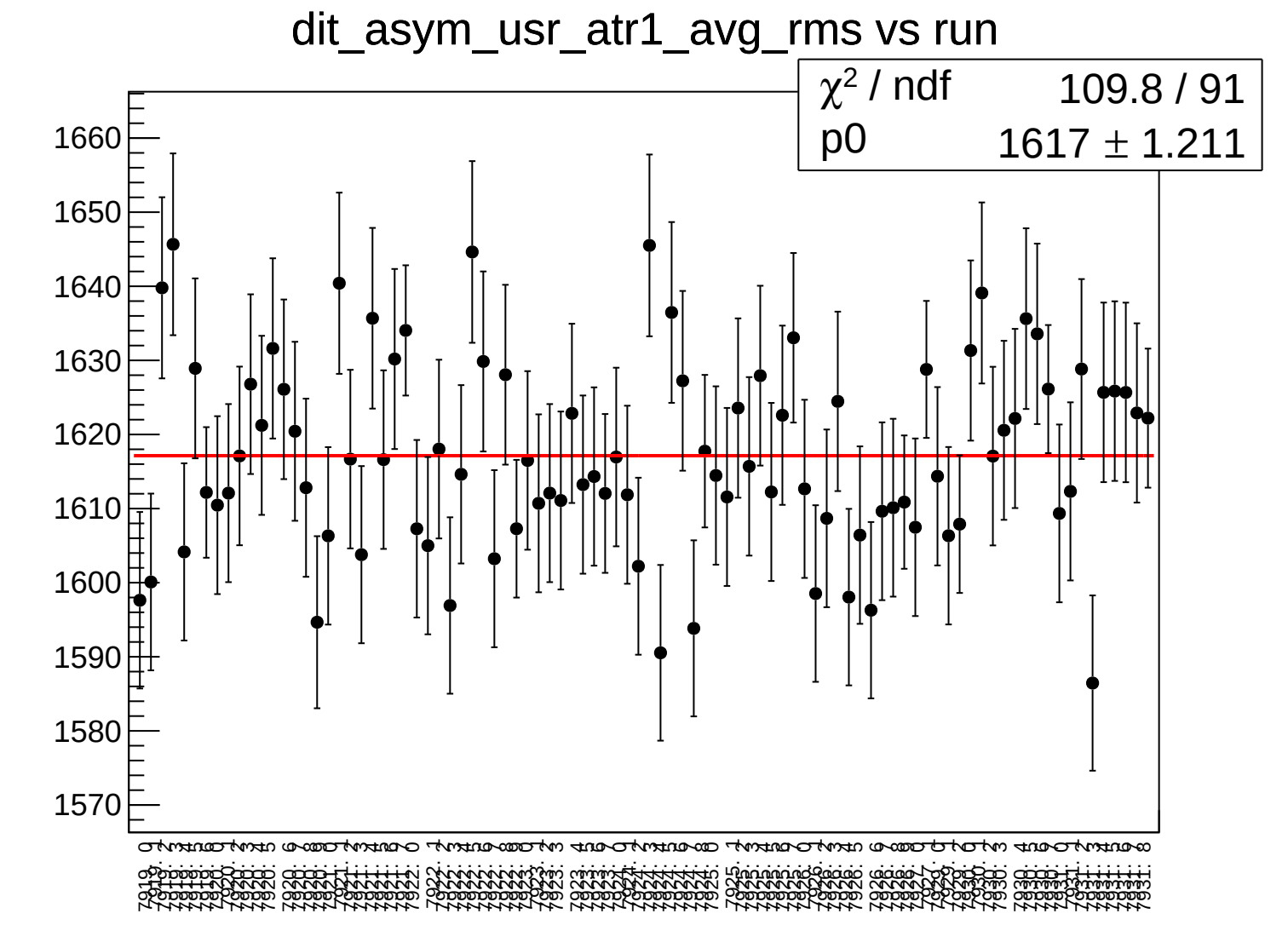

eigen_cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 106.8 / 91
p0 1612 ± 1.208
1660
1640
1620
1600
1580

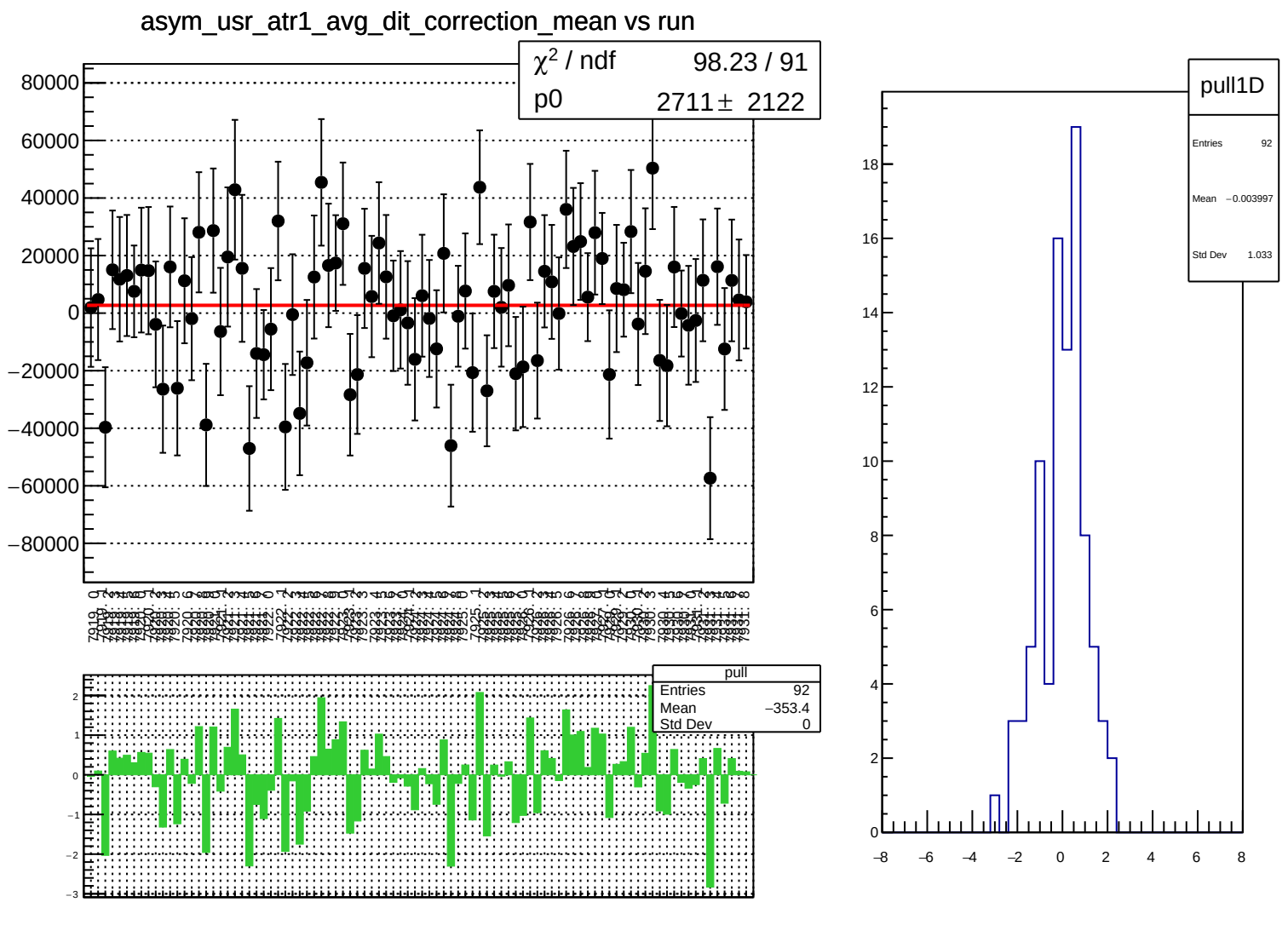

asym_usr_atr1_avg_eigen_cor_correction_mean vs run
χ² / ndf 98.66 / 91
p0 2871 ± 2109
pull
Entries 92
Mean −212.6
Std Dev 0
pull1D
Entries 92
Mean −0.00641
Std Dev 1.036

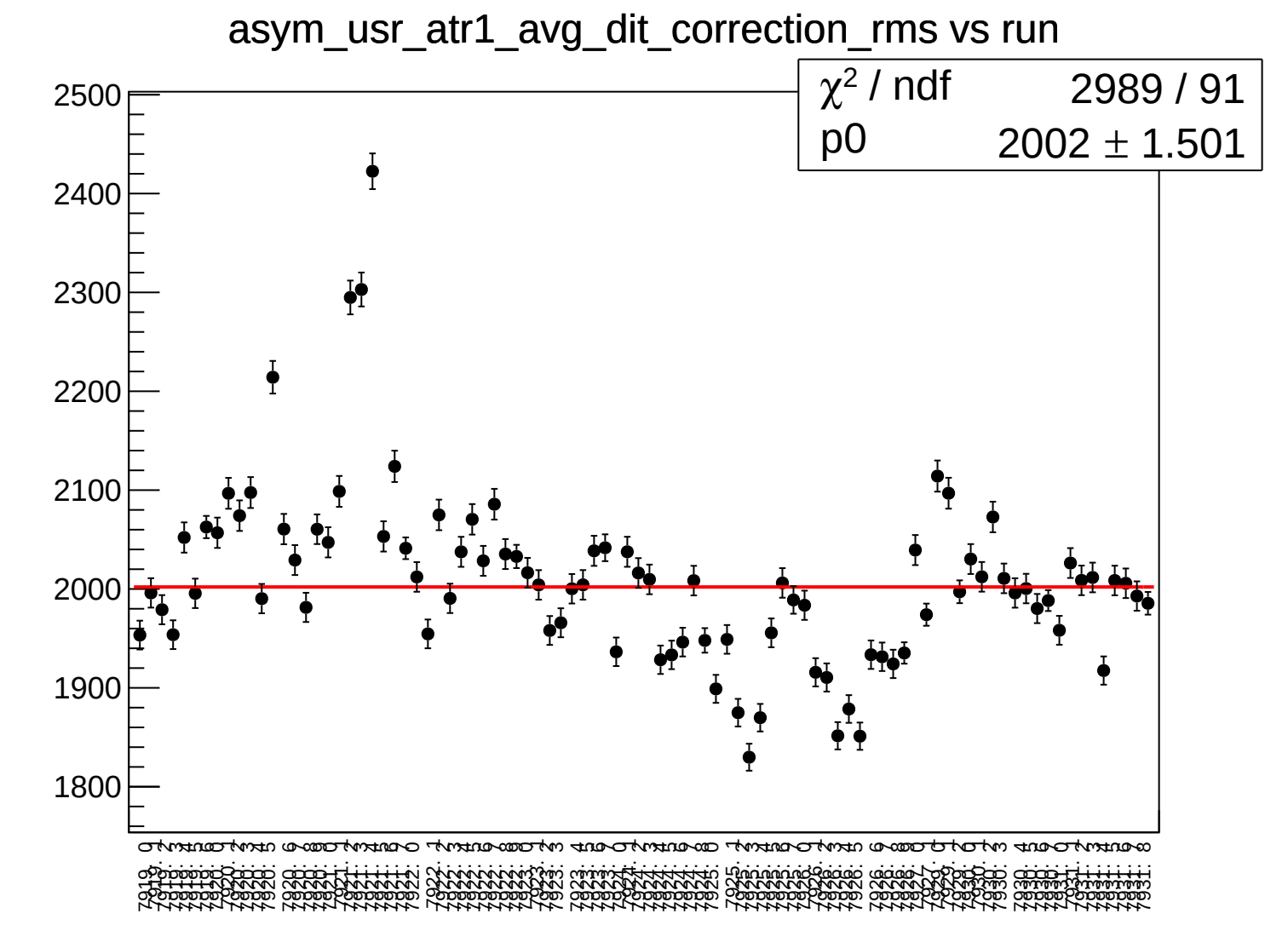

asym_usr_atr1_avg_eigen_cor_correction_rms vs run
χ² / ndf 7689 / 91
p0 1987 ± 1.491
2500
2400
2300
2200
2100
2000
1900
1800
1700
1600

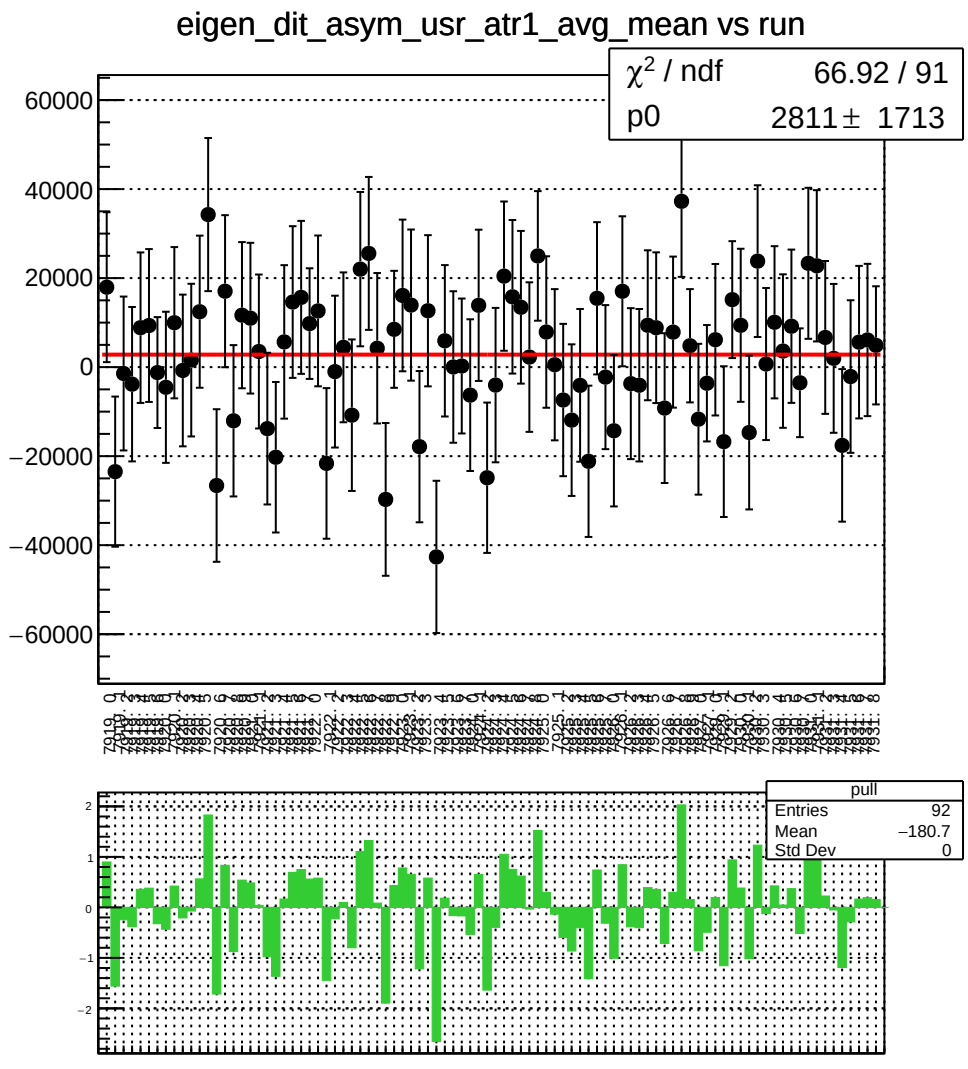

dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 66.92 / 91
p0 2811 ± 1713
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −180.7
Std Dev 0
2
1
0
−1
−2

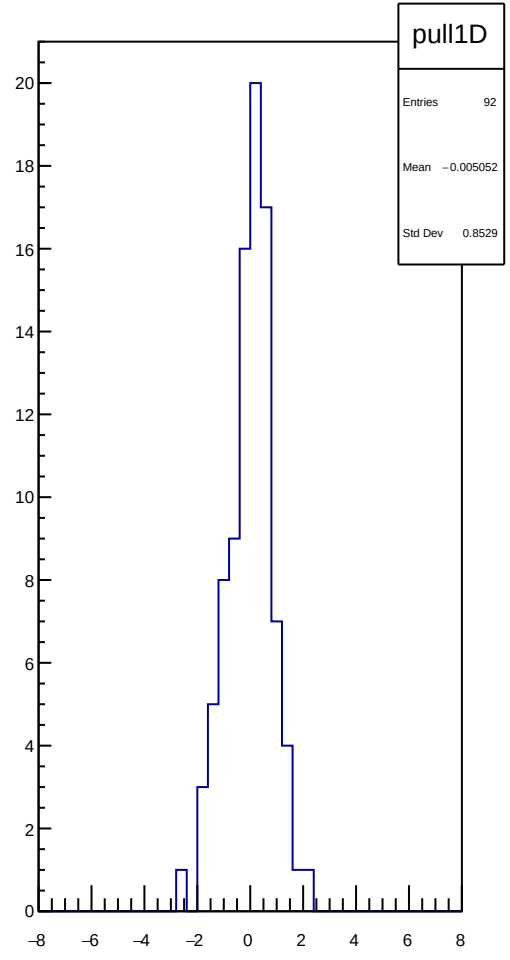

pull1D
Entries 92
Mean −0.005052
Std Dev 0.8529
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

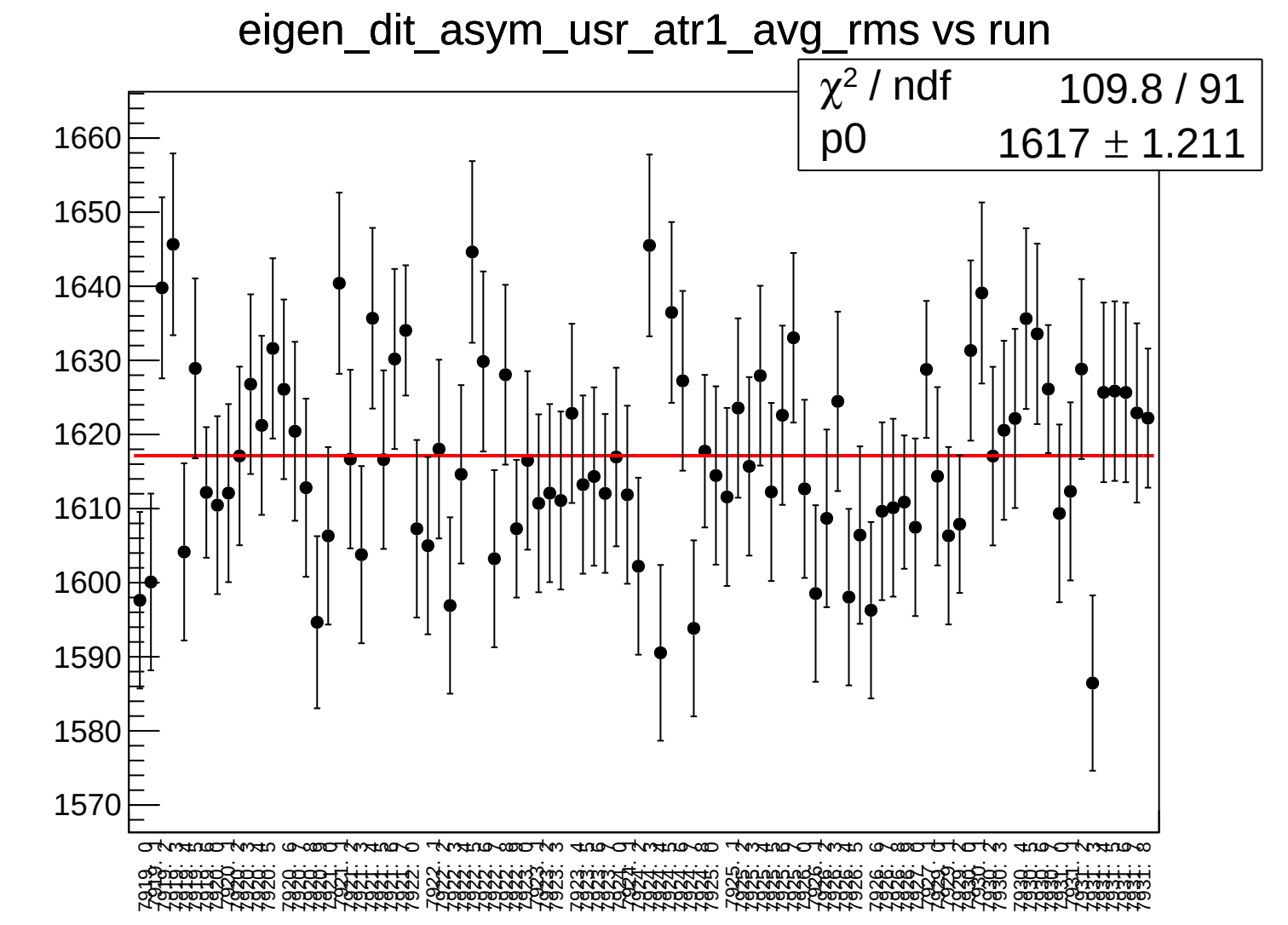

dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 109.8 / 91
p0 1617 ± 1.211
1660
1650
1640
1630
1620
1610
1600
1590
1580
1570

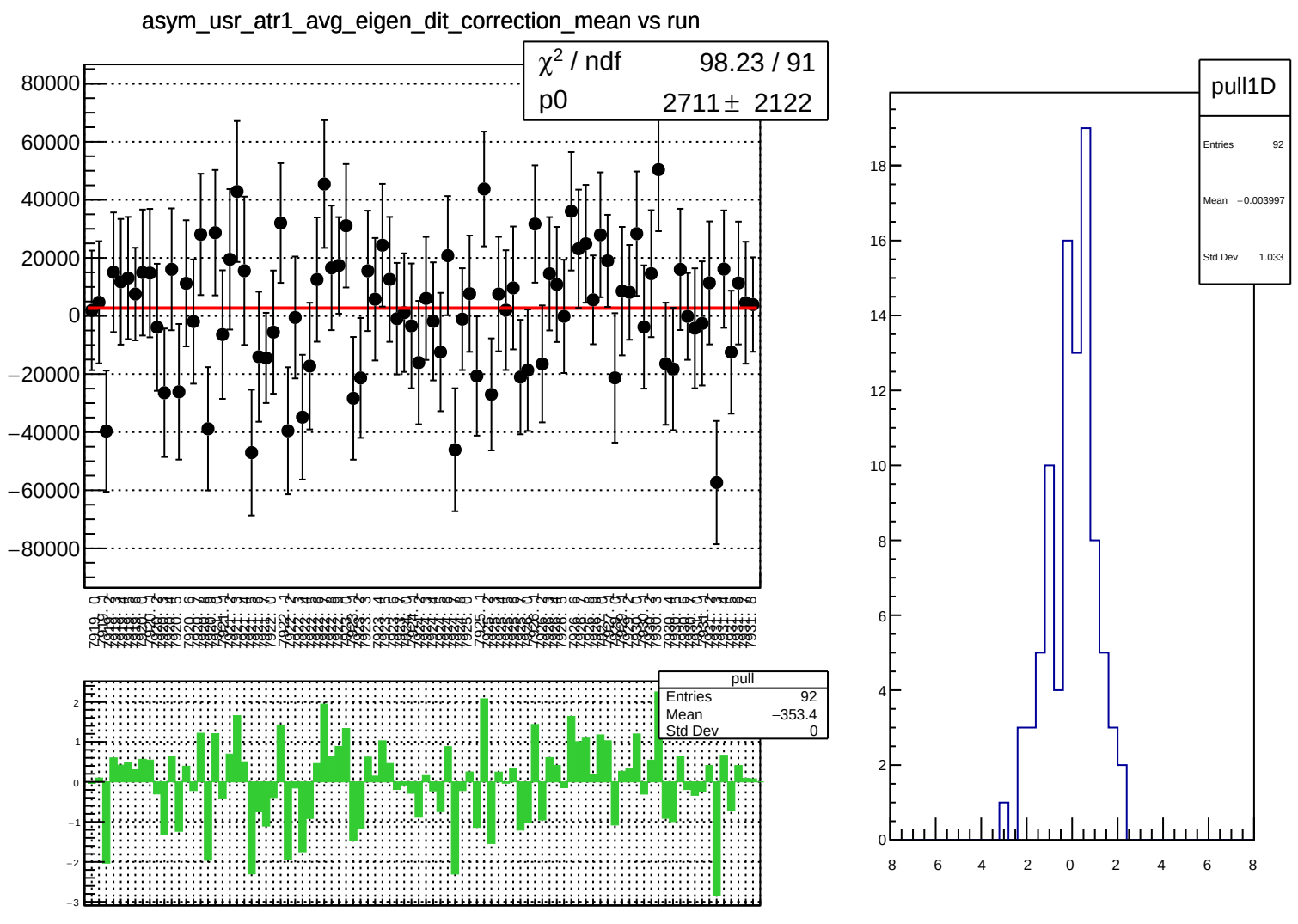

asym_usr_atr1_avg_dit_correction_mean vs run
χ² / ndf 98.23 / 91
p0 2711 ± 2122
pull
Entries 92
Mean −353.4
Std Dev 0
pull1D
Entries 92
Mean −0.003997
Std Dev 1.033

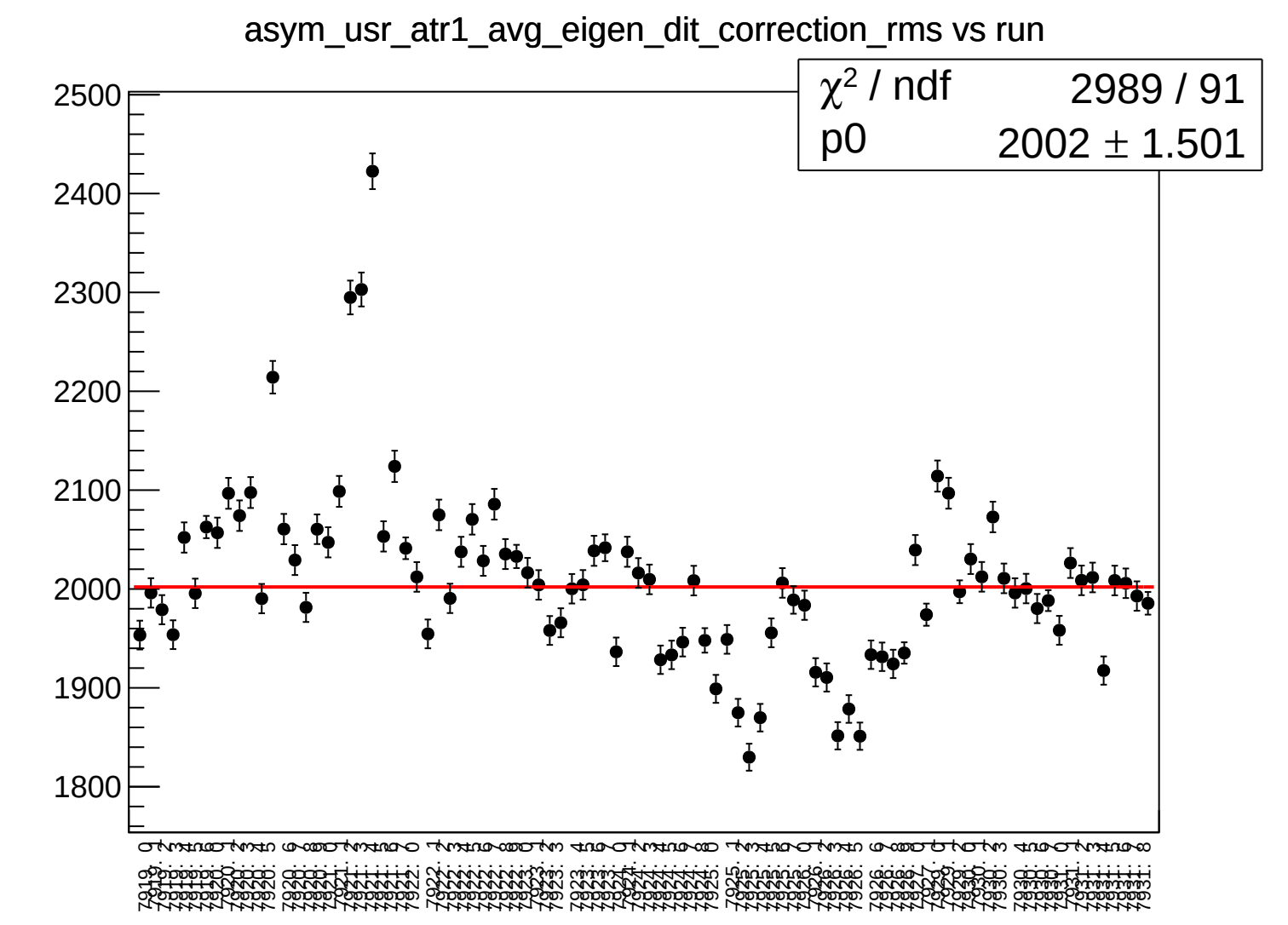

asym_usr_atr1_avg_dit_correction_rms vs run
χ^2 / ndf 2989 / 91
p0 2002 ± 1.501
2500
2400
2300
2200
2100
2000
1900
1800

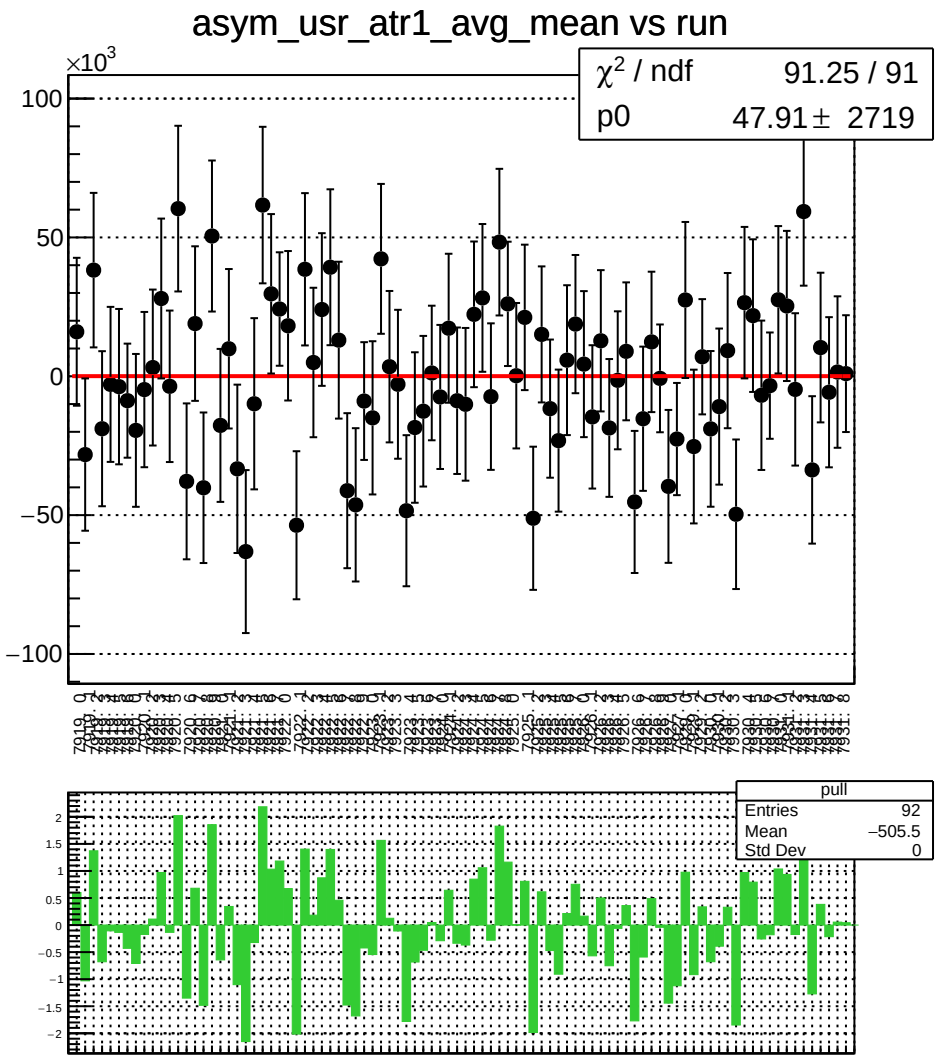

eigen_dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 66.92 / 91
p0 2811 ± 1713
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −180.7
Std Dev 0
2
1
0
−1
−2

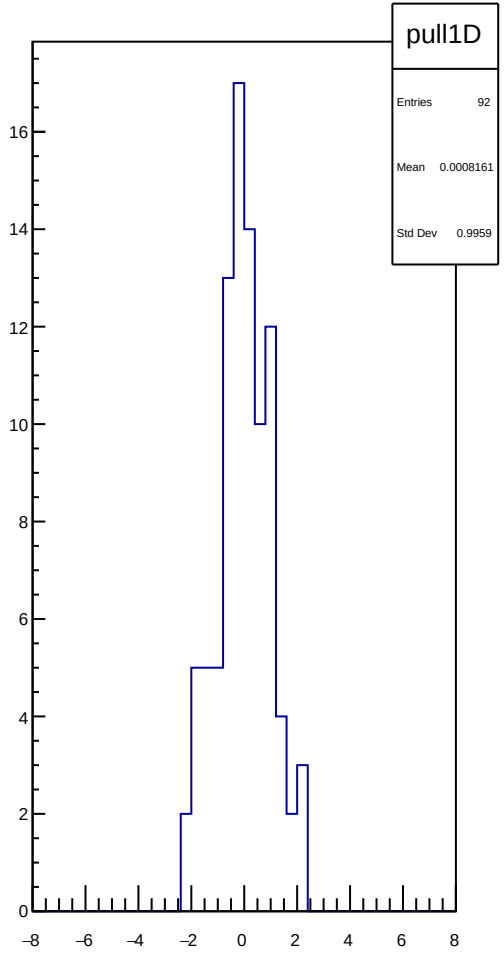

pull1D
Entries 92
Mean −0.005052
Std Dev 0.8529
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

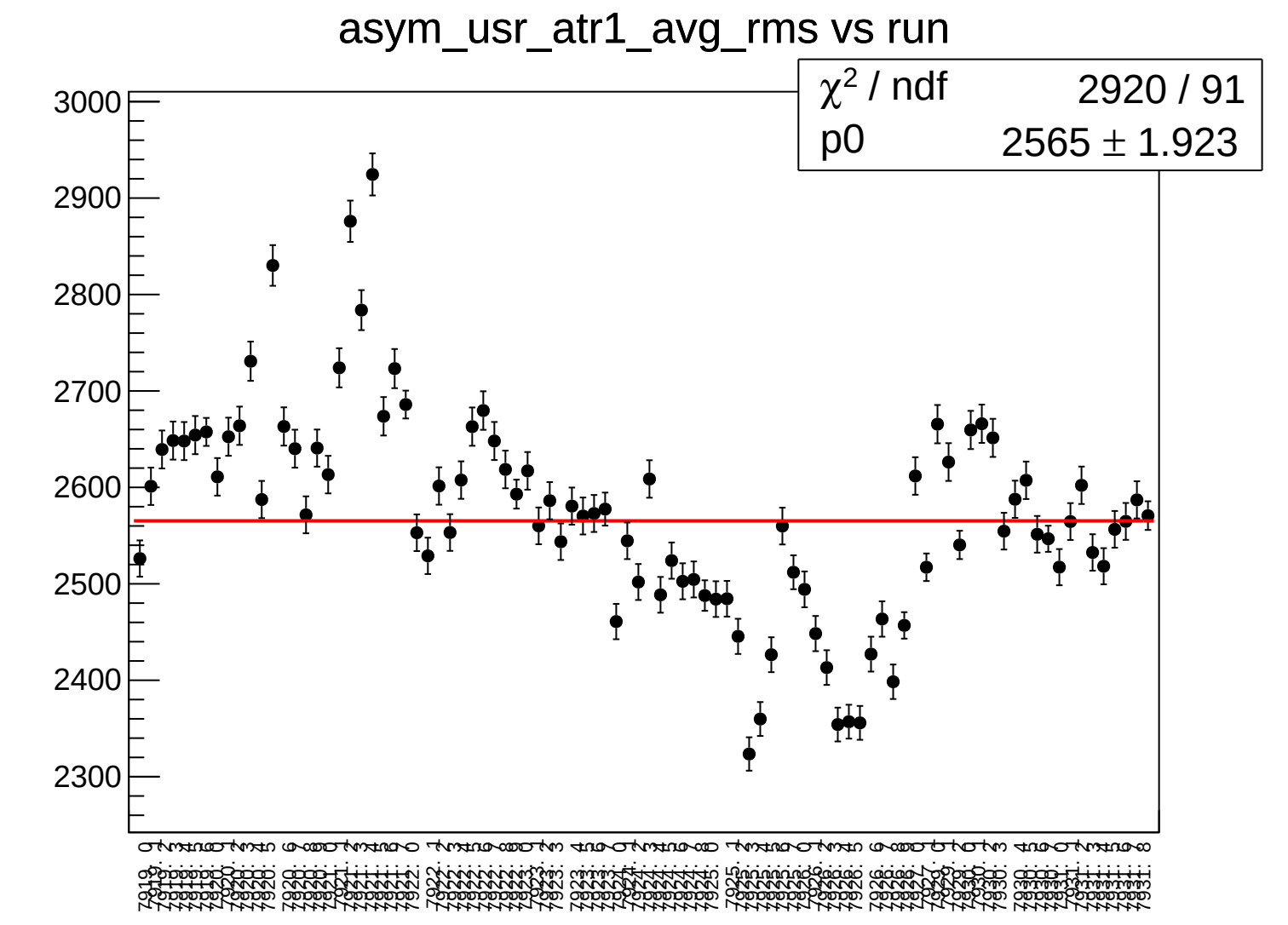

eigen_dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 109.8 / 91
p0 1617 ± 1.211
1660
1650
1640
1630
1620
1610
1600
1590
1580
1570

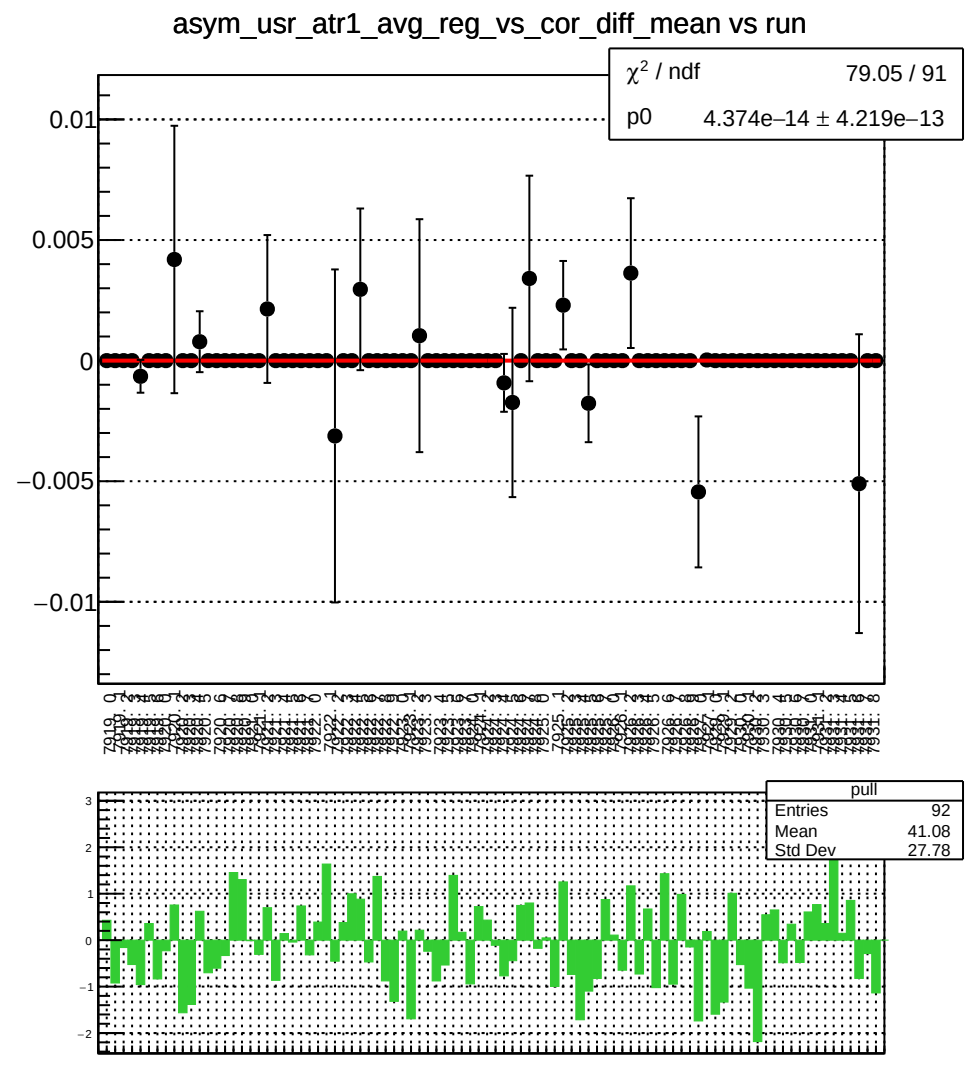

asym_usr_atr1_avg_eigen_dit_correction_mean vs run
χ² / ndf 98.23 / 91
p0 2711 ± 2122
pull
Entries 92
Mean −353.4
Std Dev 0
pull1D
Entries 92
Mean −0.003997
Std Dev 1.033

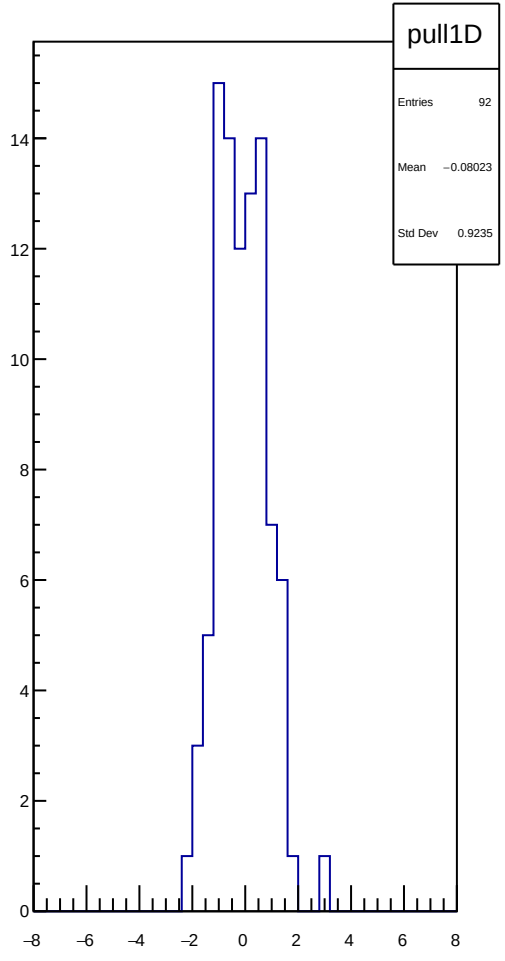

asym_usr_atr1_avg_eigen_dit_correction_rms vs run
χ² / ndf 2989 / 91
p0 2002 ± 1.501
2500
2400
2300
2200
2100
2000
1900
1800

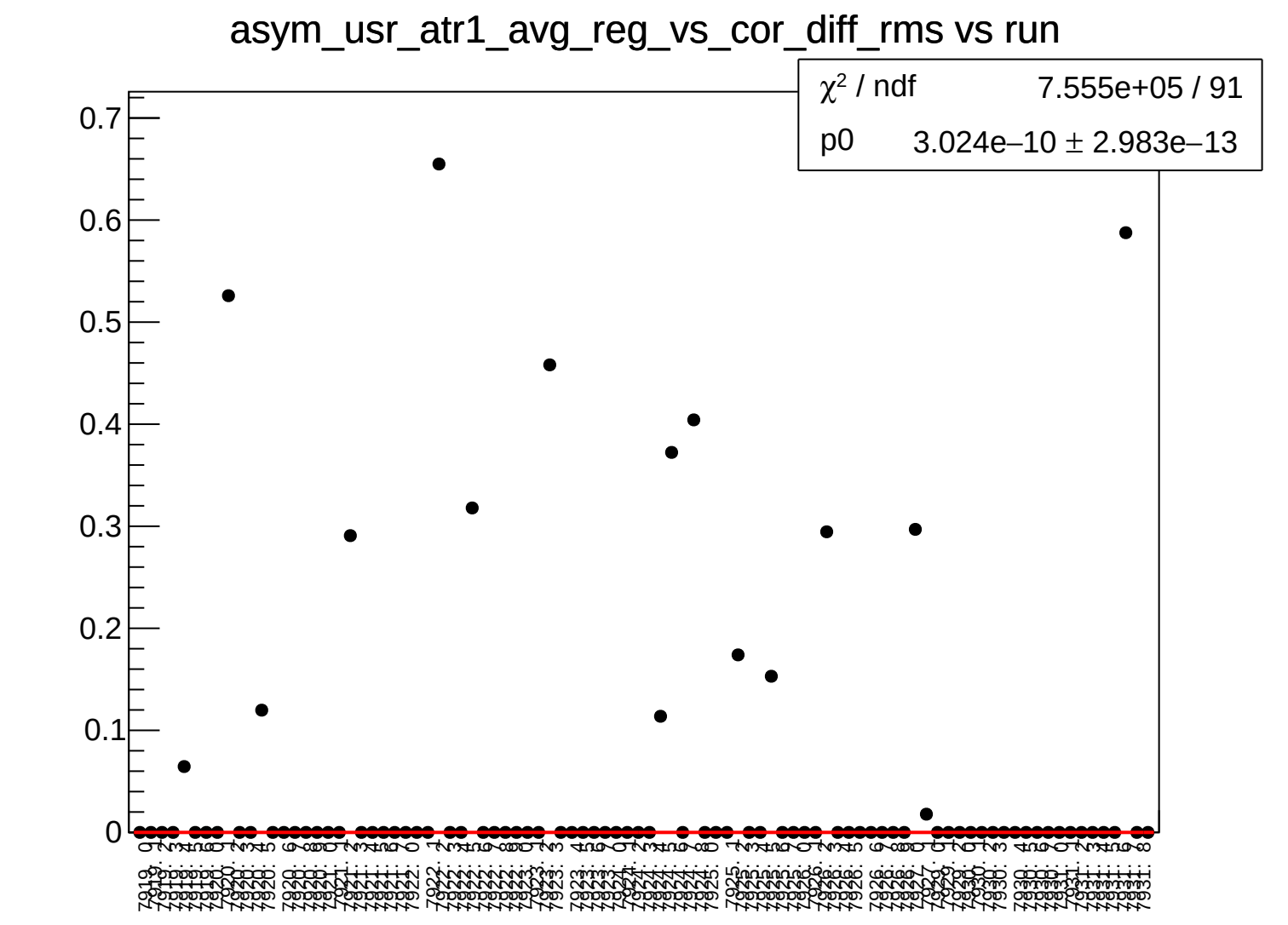

asym_usr_atr1_avg_mean vs run
×10^3
χ² / ndf 91.25 / 91
p0 47.91 ± 2719
100
50
0
−50
−100
pull
Entries 92
Mean −505.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

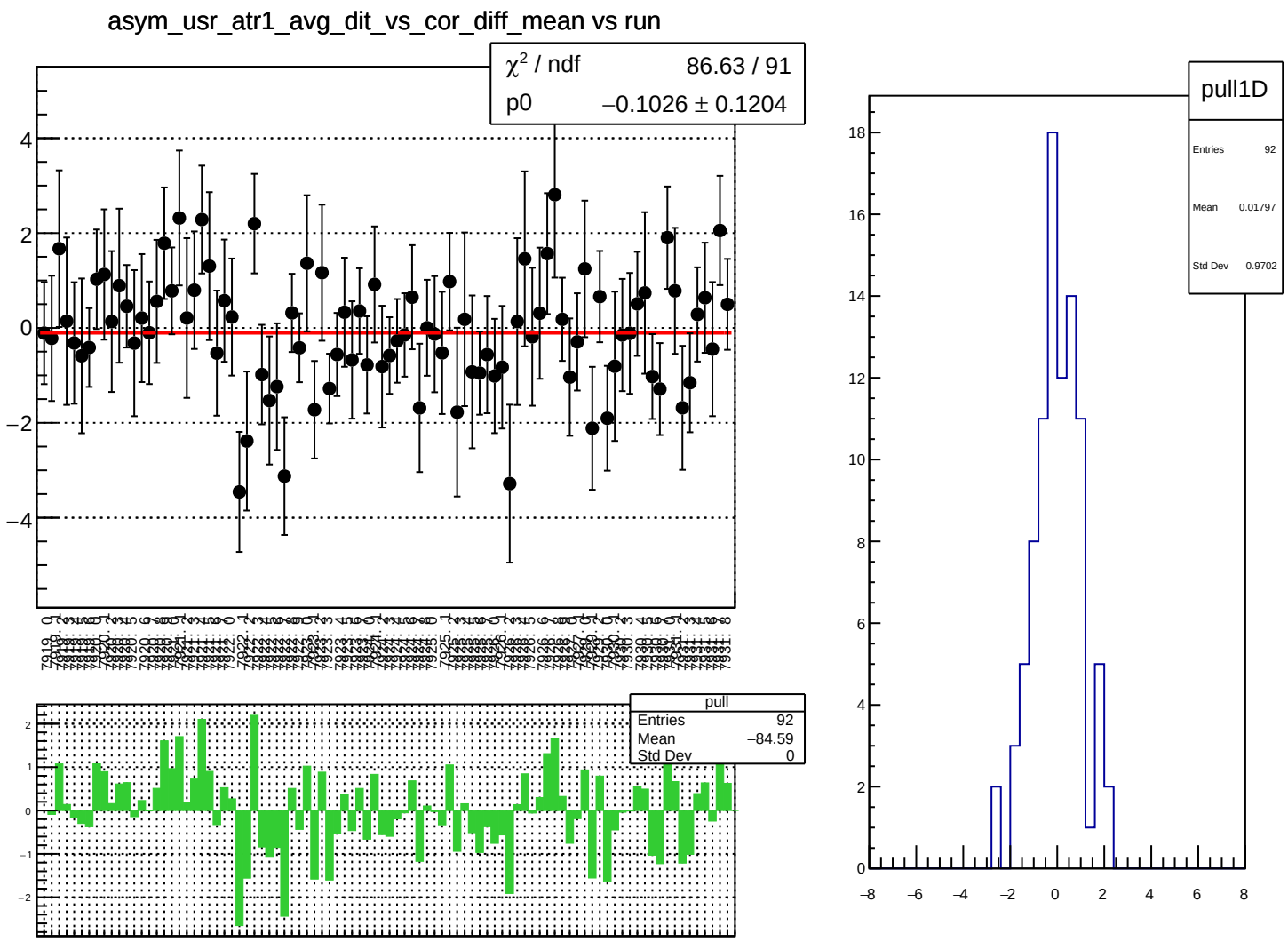

pull1D
Entries 92
Mean 0.0008161
Std Dev 0.9959
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

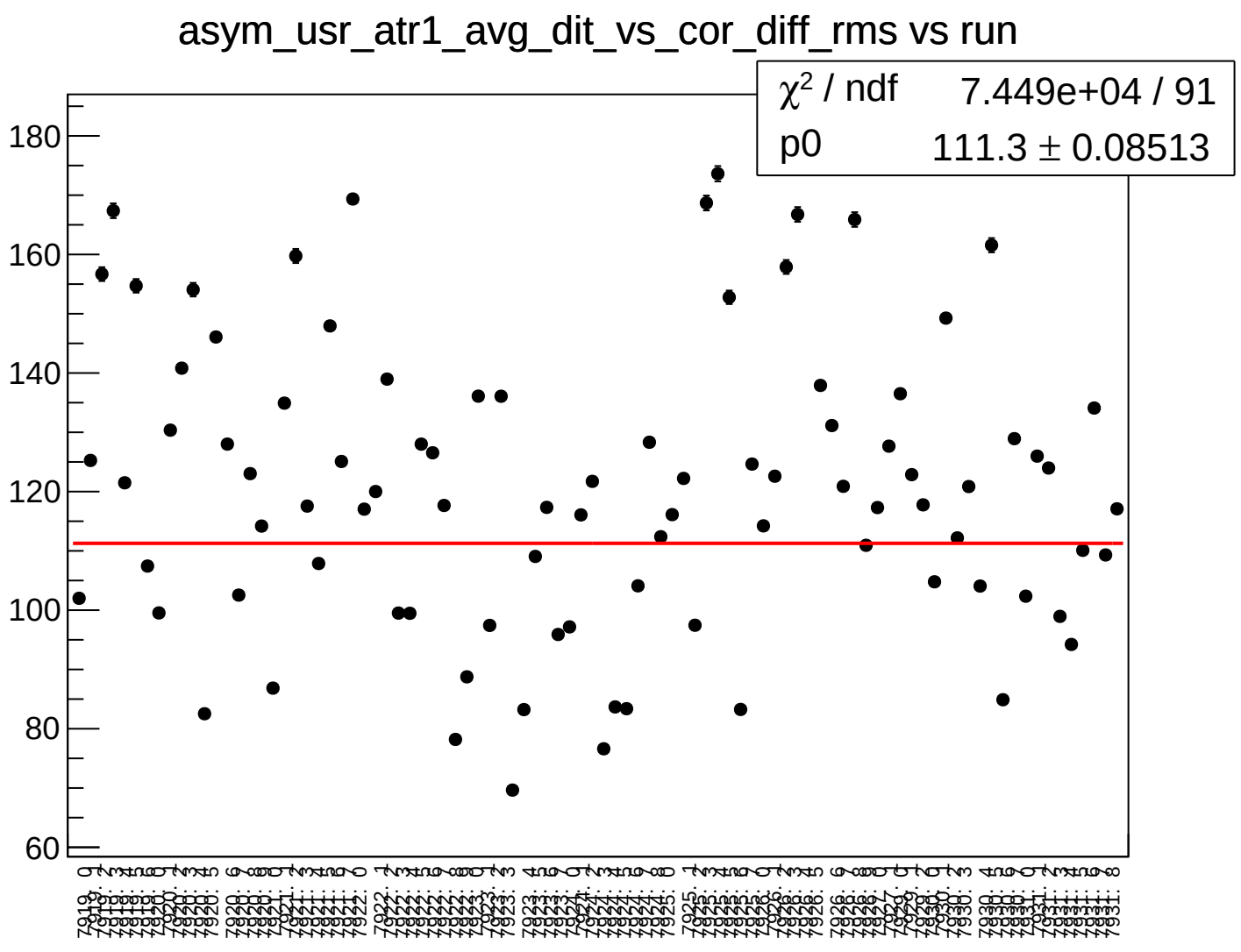

asym_usr_atr1_avg_rms vs run
χ² / ndf 2920 / 91
p0 2565 ± 1.923
3000
2900
2800
2700
2600
2500
2400
2300

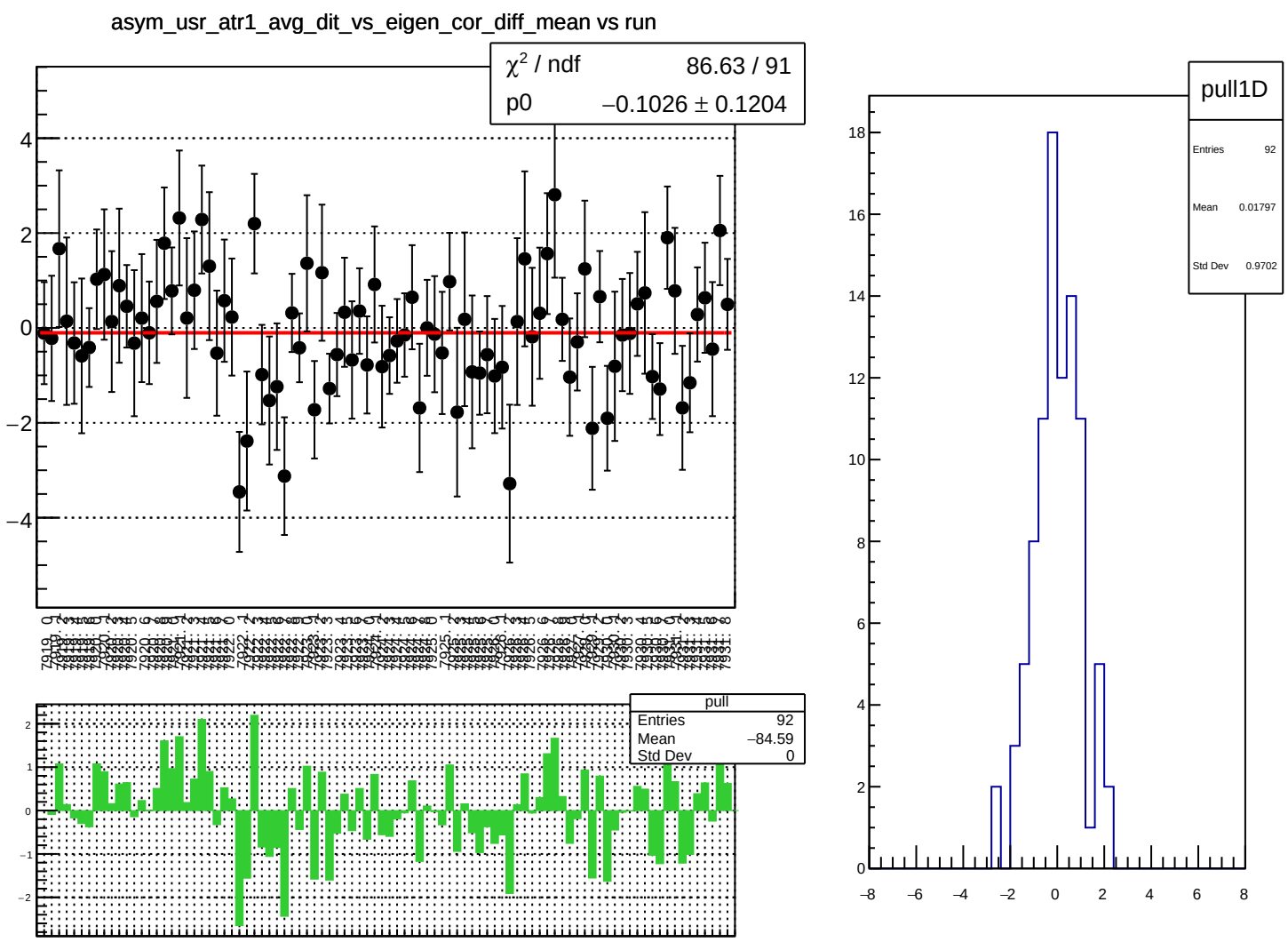

asym_usr_atr1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 79.05 / 91
p0 4.374e−14 ± 4.219e−13
0.01
0.005
0
−0.005
−0.01
pull
Entries 92
Mean 41.08
Std Dev 27.78
3
2
1
0
−1
−2

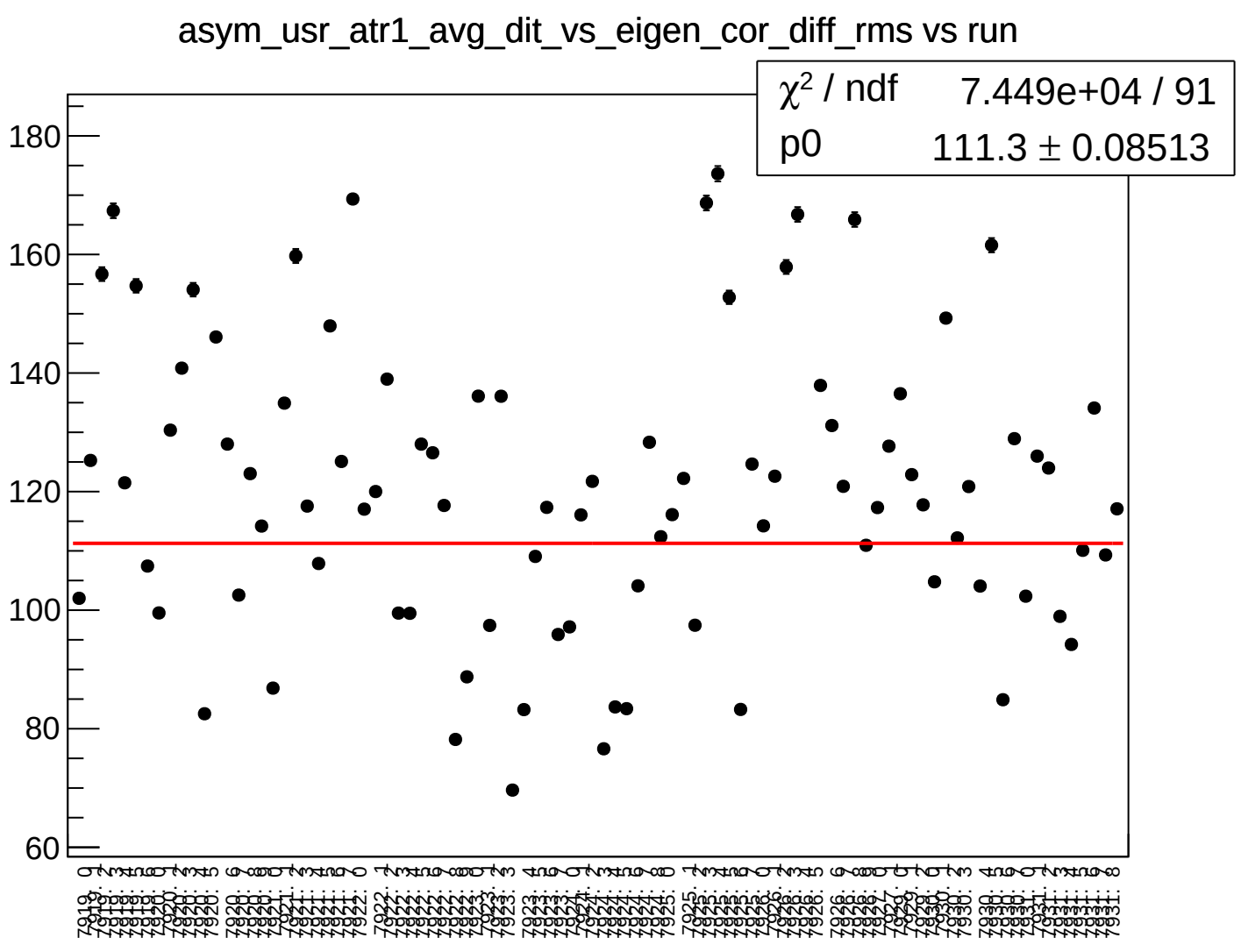

pull1D
Entries 92
Mean −0.08023
Std Dev 0.9235
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

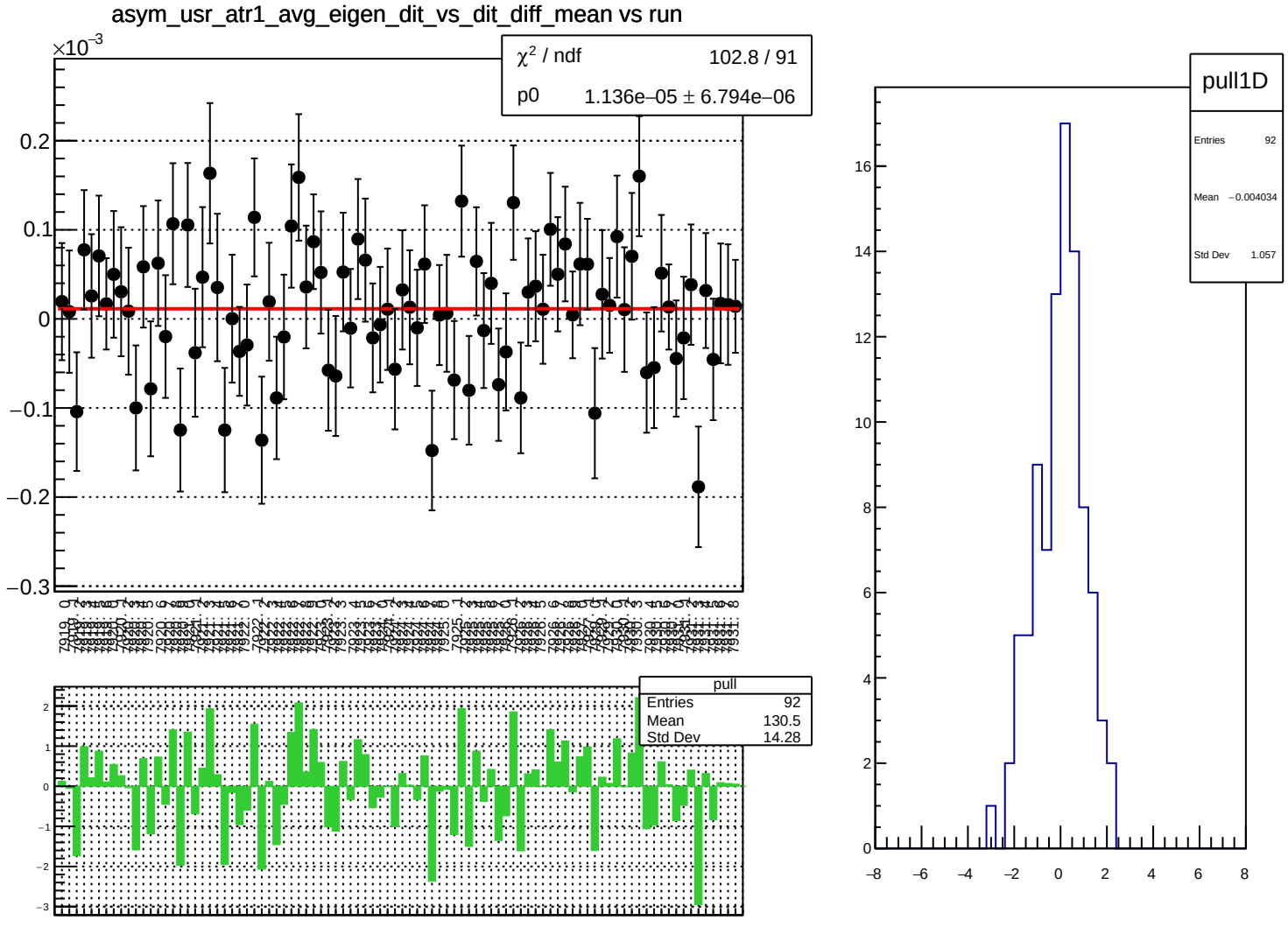

asym_usr_atr1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 7.555e+05 / 91
p0 3.024e−10 ± 2.983e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

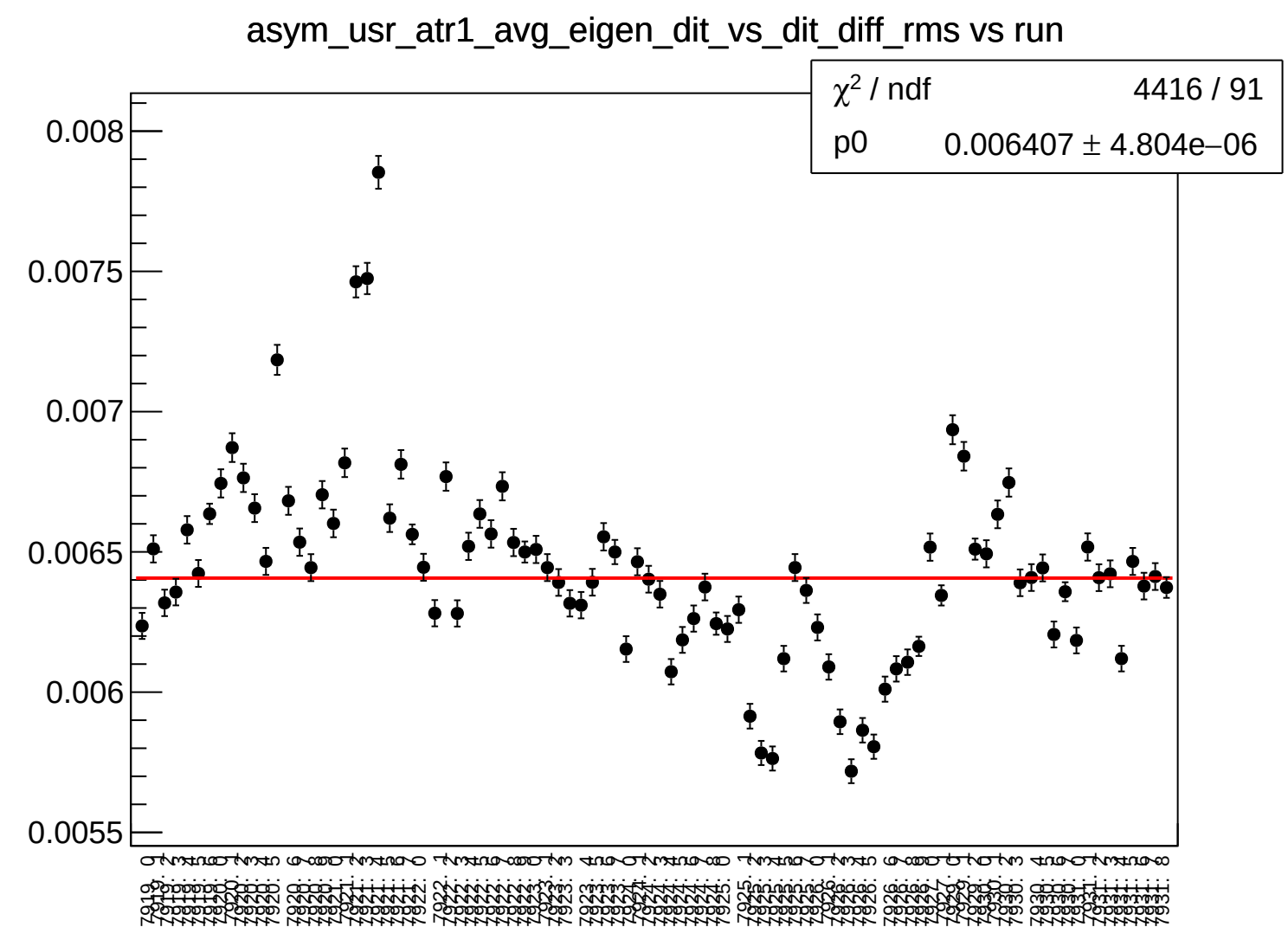

asym_usr_atr1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 86.63 / 91
p0 −0.1026 ± 0.1204
pull
Entries 92
Mean −84.59
Std Dev 0
pull1D
Entries 92
Mean 0.01797
Std Dev 0.9702

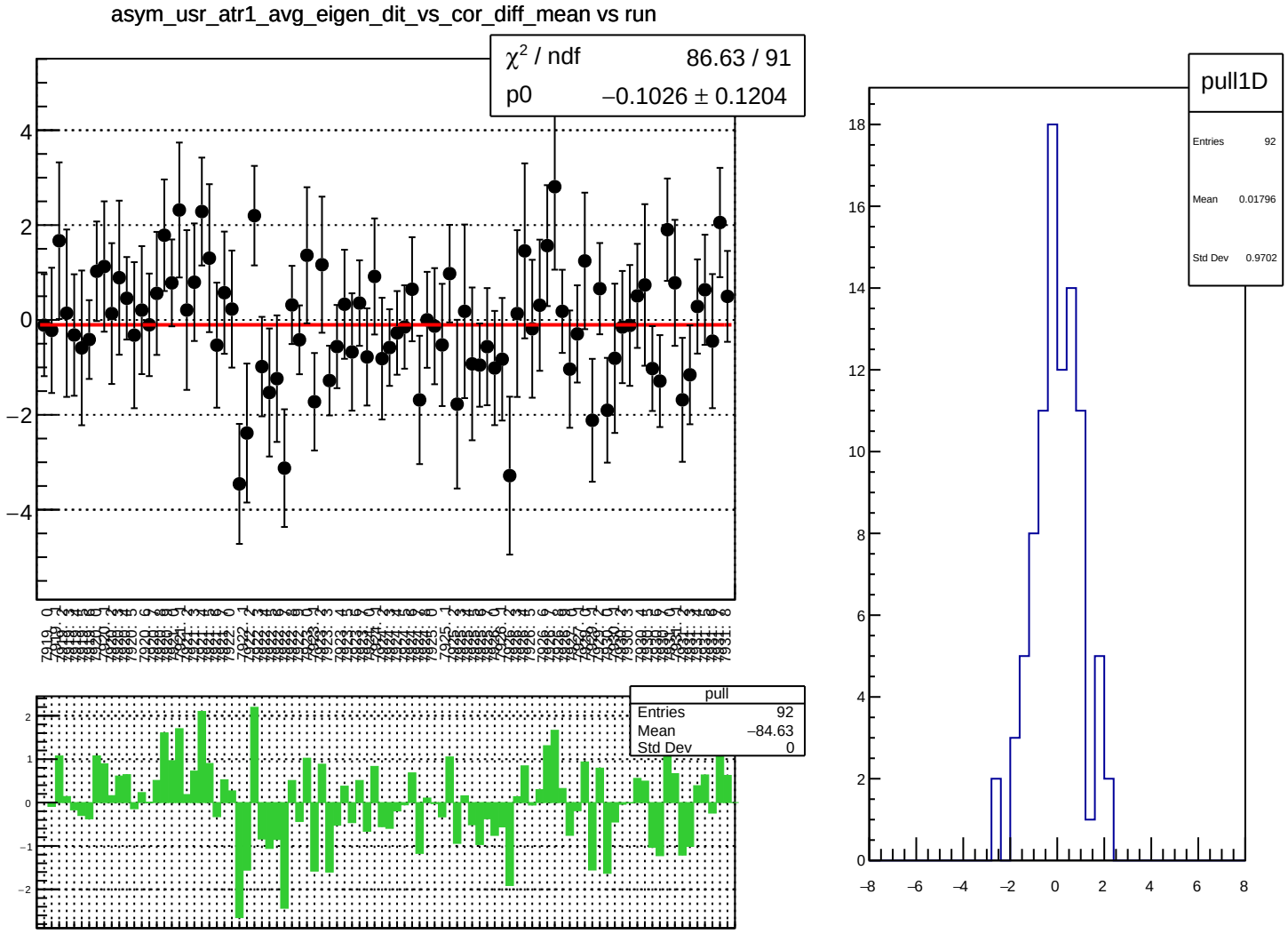

asym_usr_atr1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.449e+04 / 91
p0 111.3 ± 0.08513
180
160
140
120
100
80
60

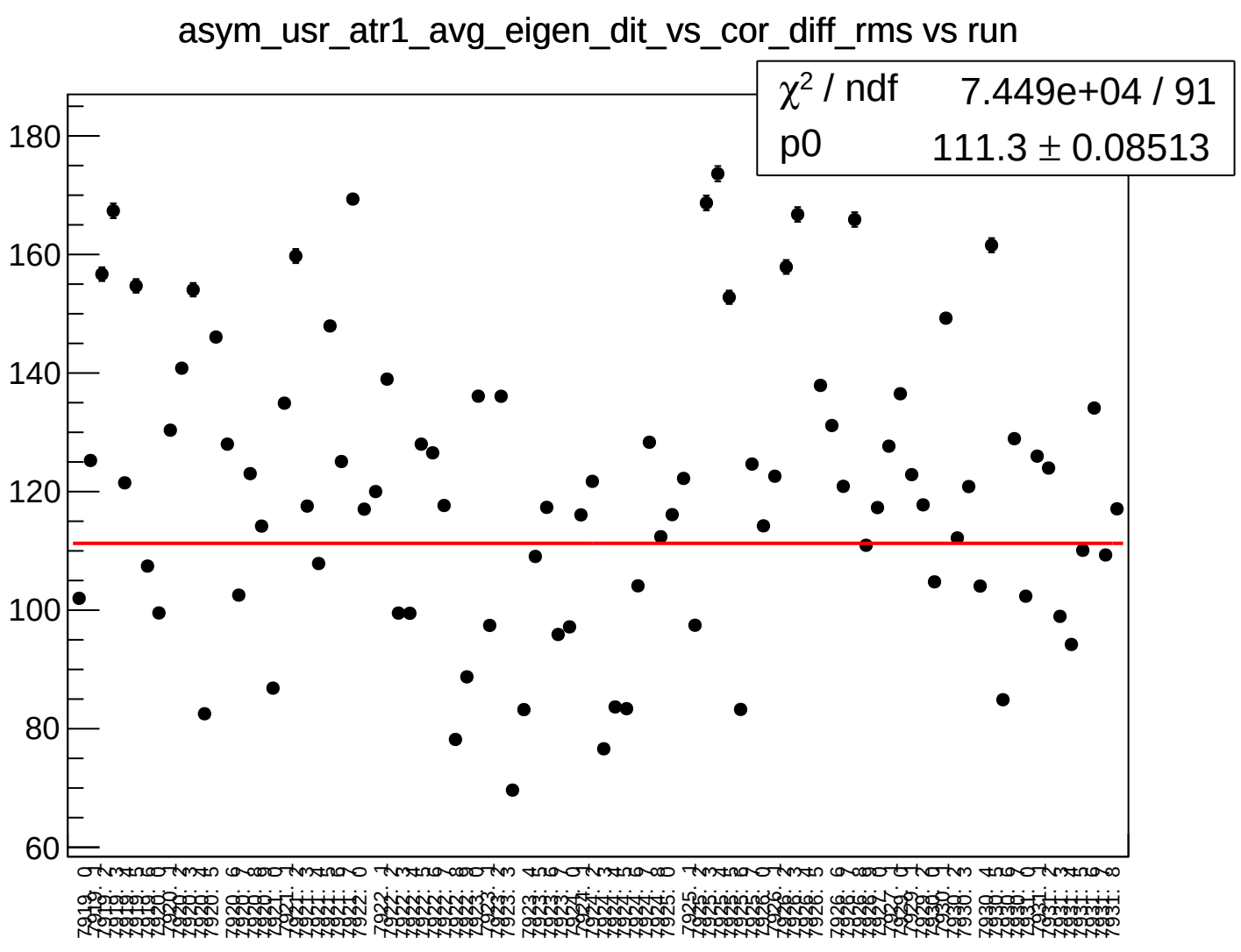

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.63 / 91
p0 −0.1026 ± 0.1204
pull
Entries 92
Mean −84.59
Std Dev 0
pull1D
Entries 92
Mean 0.01797
Std Dev 0.9702

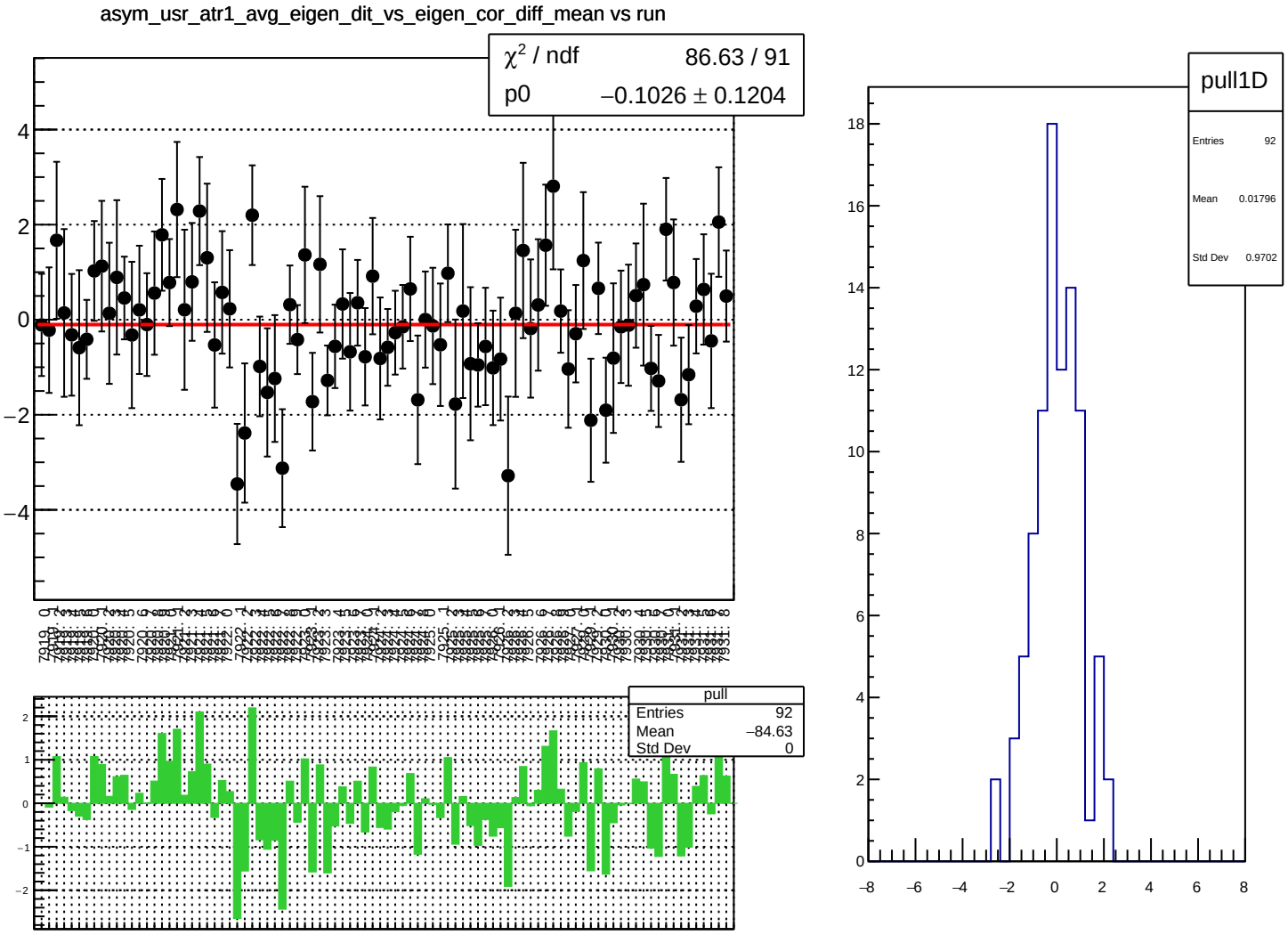

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.449e+04 / 91
p0 111.3 ± 0.08513
180
160
140
120
100
80
60

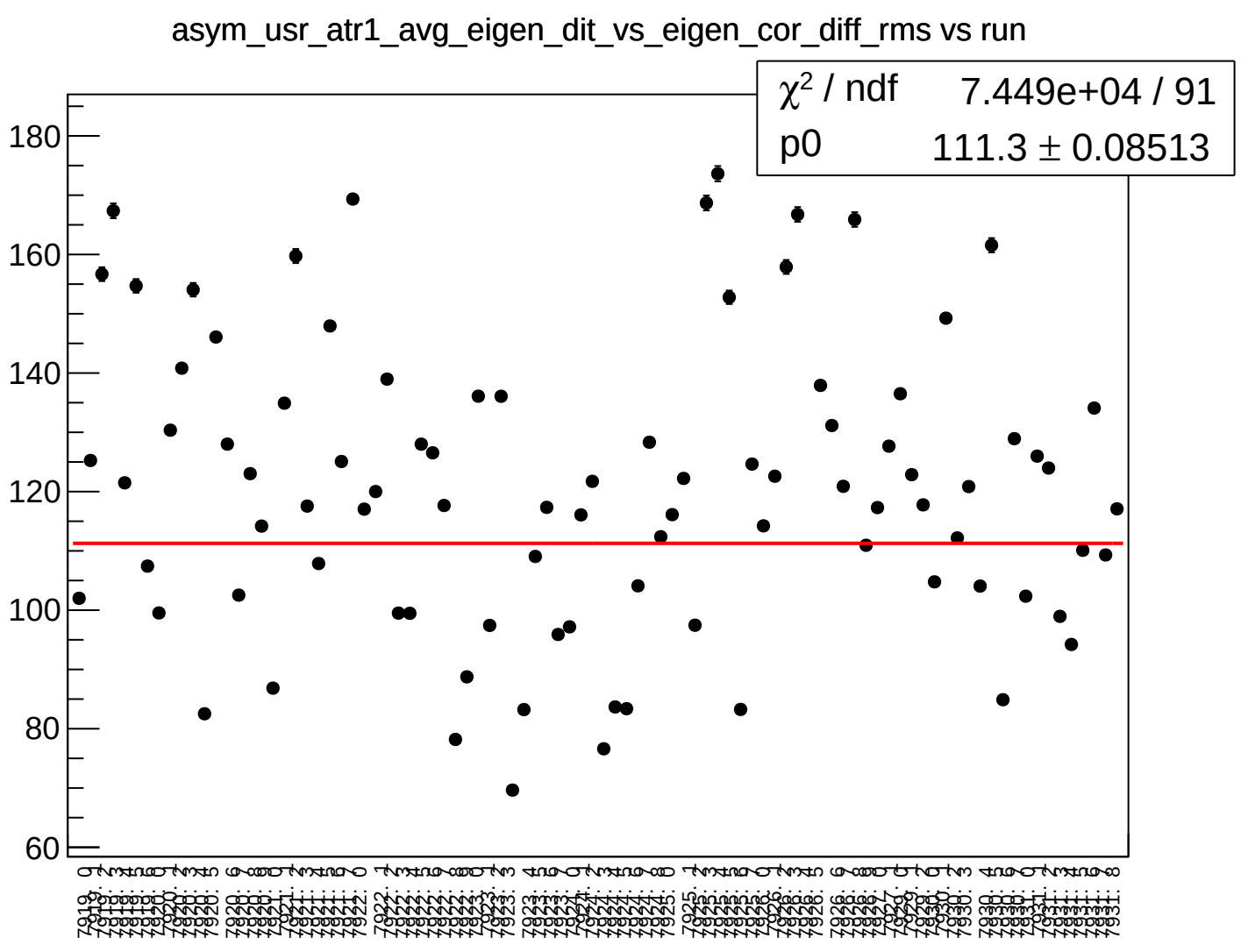

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 102.8 / 91
p0 1.136e−05 ± 6.794e−06
pull
Entries 92
Mean 130.5
Std Dev 14.28
pull1D
Entries 92
Mean −0.004034
Std Dev 1.057

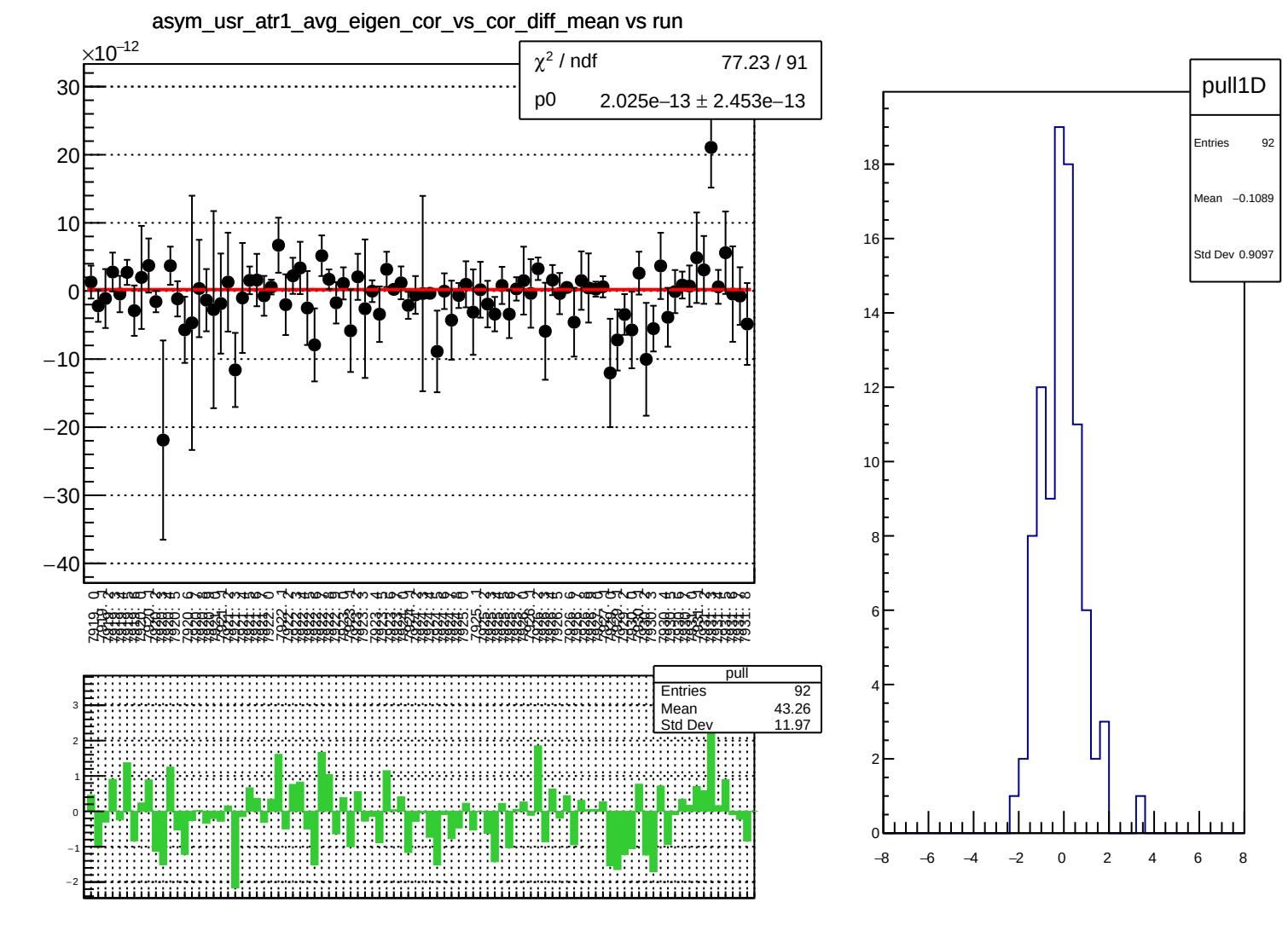

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4416 / 91
p0 0.006407 ± 4.804e−06
0.008
0.0075
0.007
0.0065
0.006
0.0055

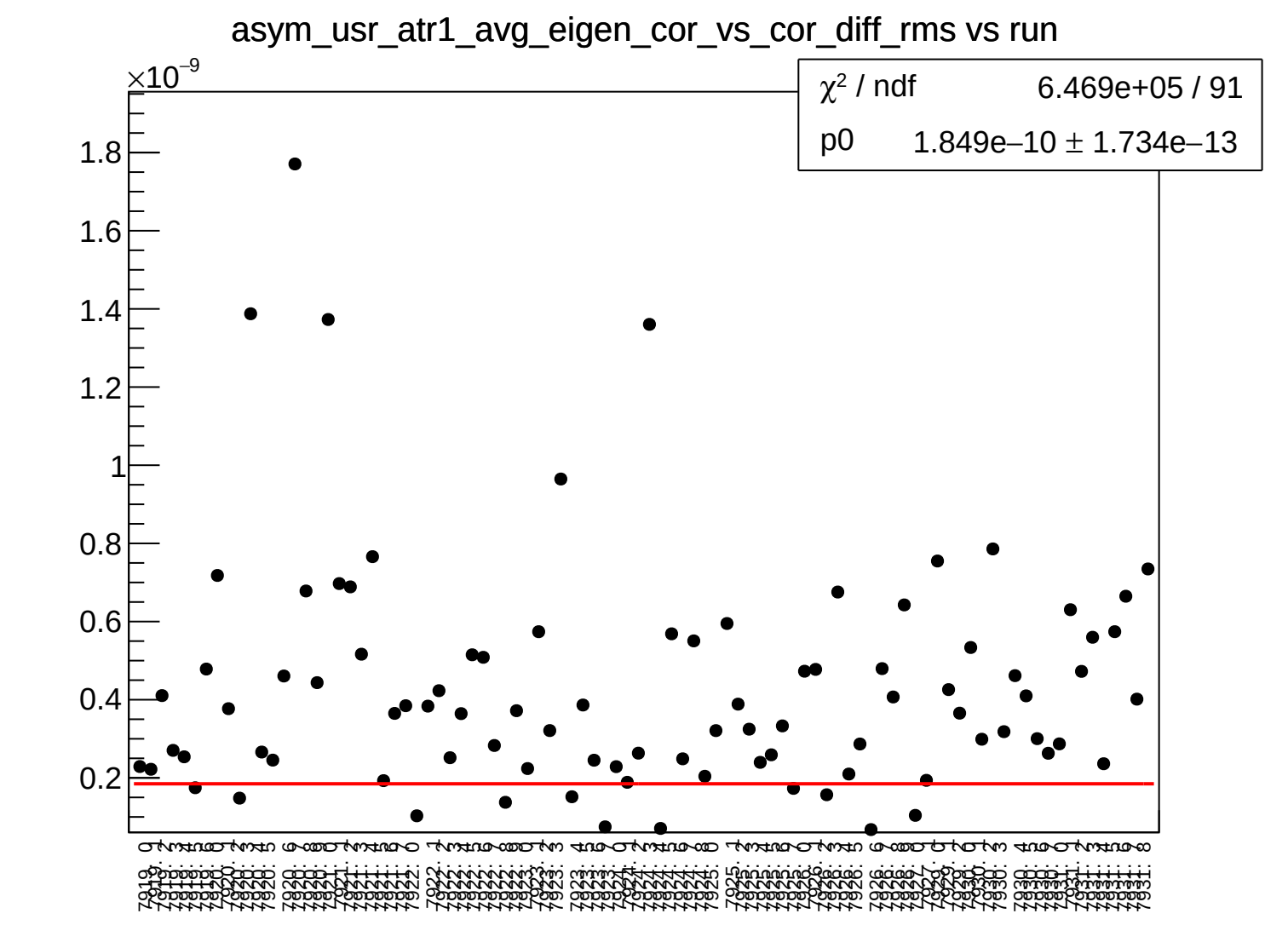

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.63 / 91
p0 −0.1026 ± 0.1204
pull
Entries 92
Mean −84.63
Std Dev 0
pull1D
Entries 92
Mean 0.01796
Std Dev 0.9702

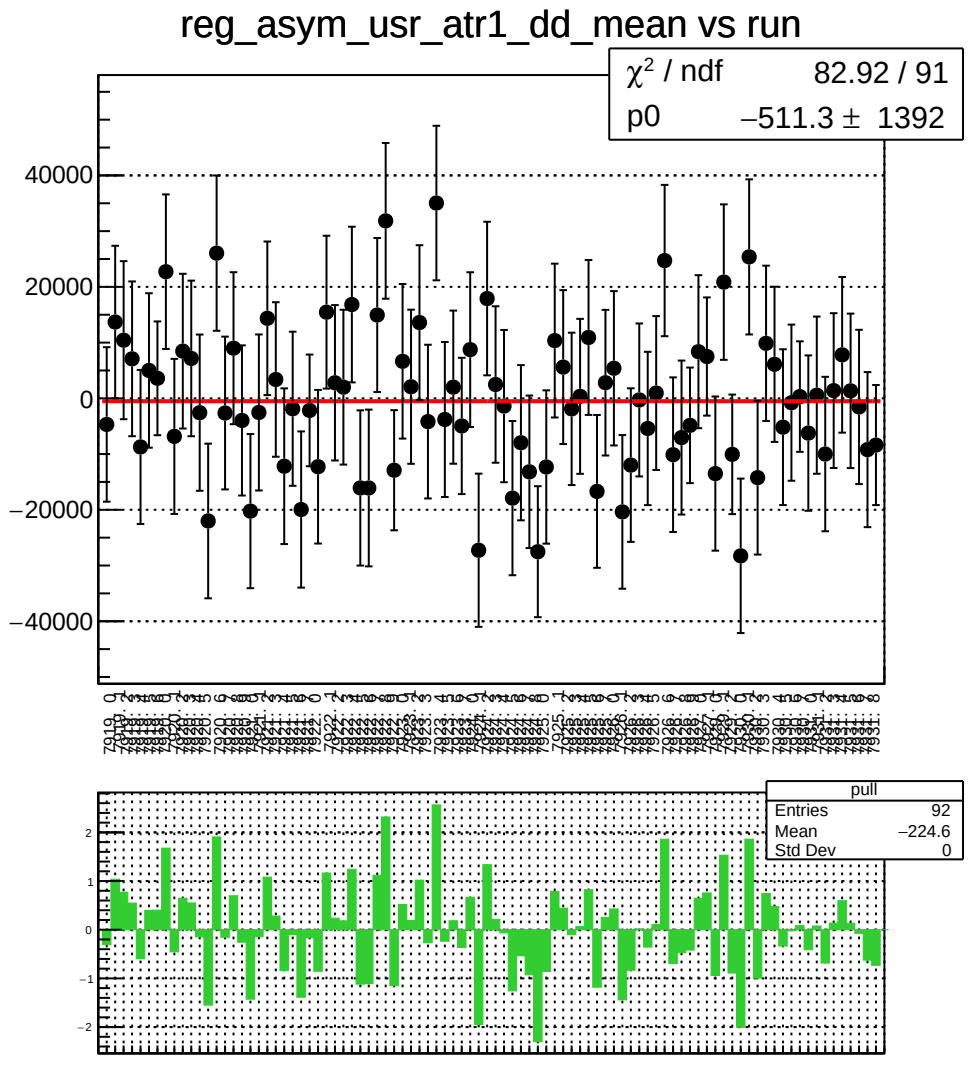

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.449e+04 / 91
p0 111.3 ± 0.08513
180
160
140
120
100
80
60

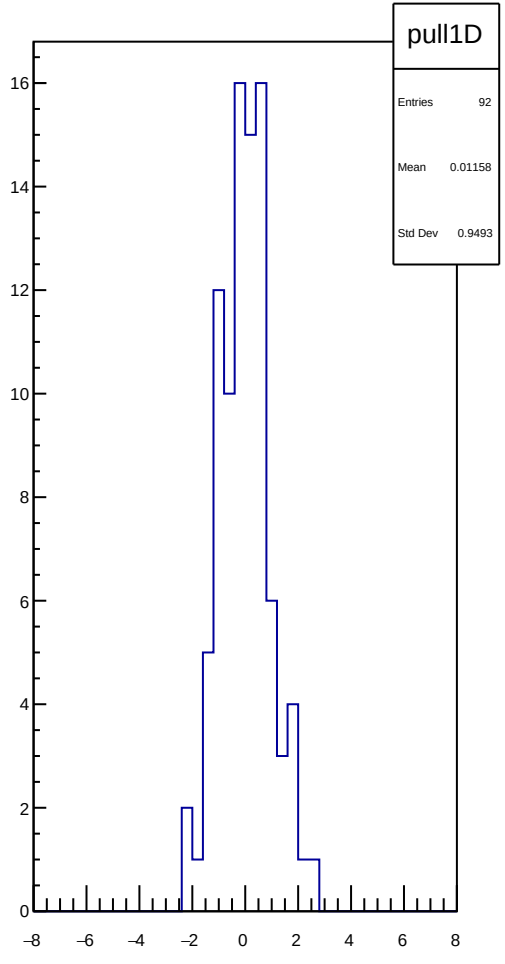

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.63 / 91
p0 −0.1026 ± 0.1204
pull
Entries 92
Mean −84.63
Std Dev 0
pull1D
Entries 92
Mean 0.01796
Std Dev 0.9702

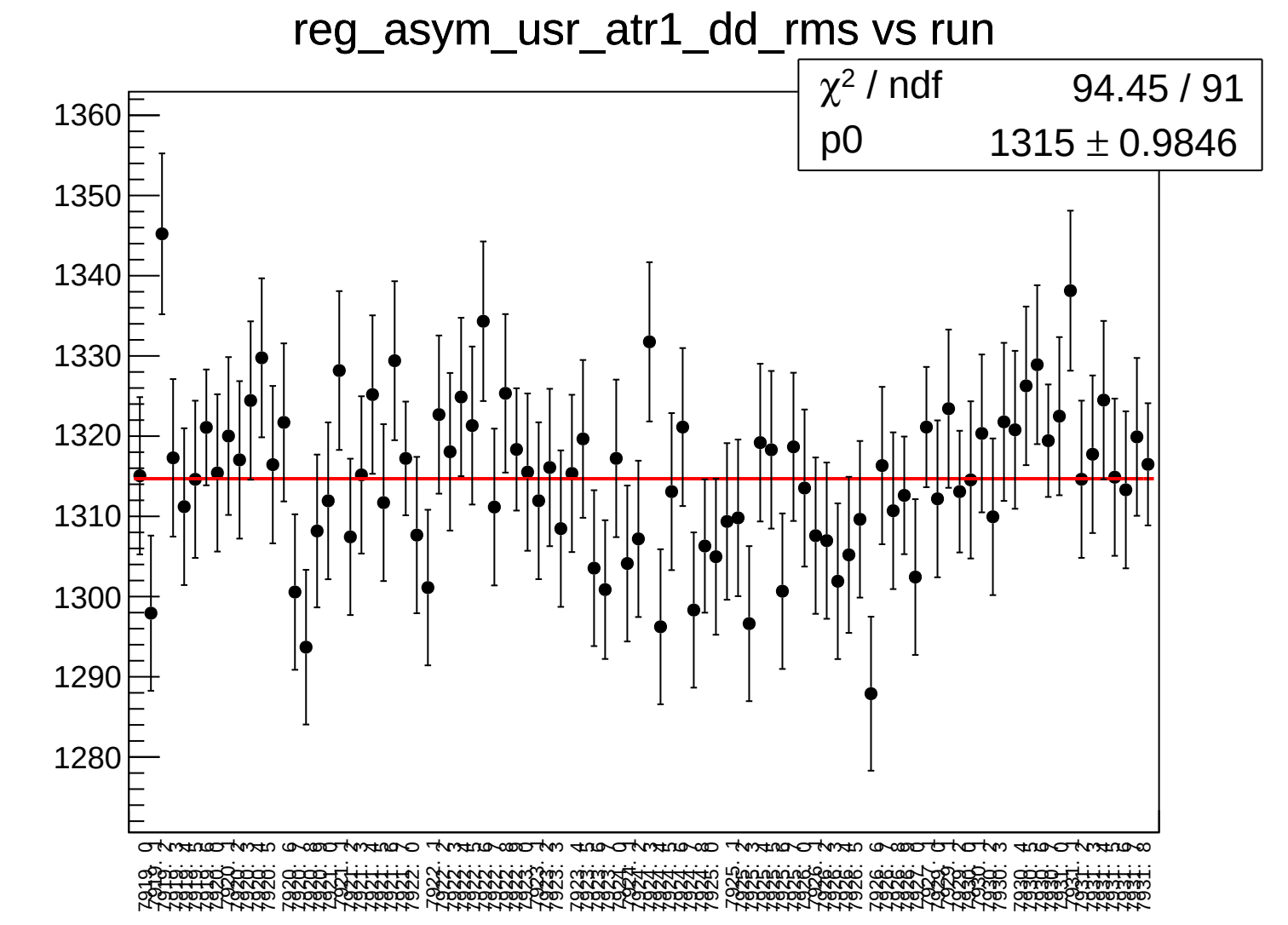

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.449e+04 / 91
p0 111.3 ± 0.08513
180
160
140
120
100
80
60

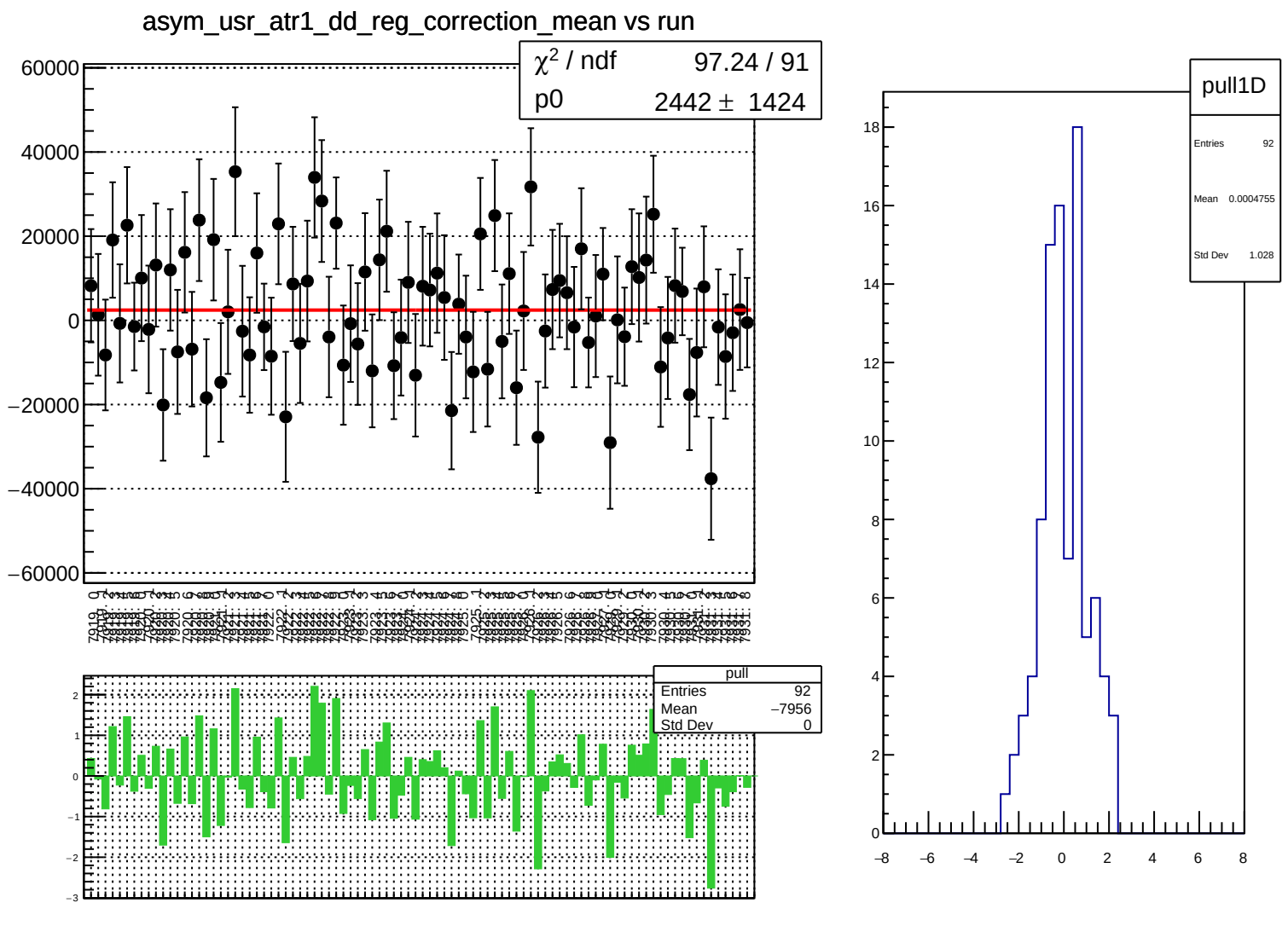

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.23 / 91
p0 2.025e−13 ± 2.453e−13
pull
Entries 92
Mean 43.26
Std Dev 11.97
pull1D
Entries 92
Mean −0.1089
Std Dev 0.9097

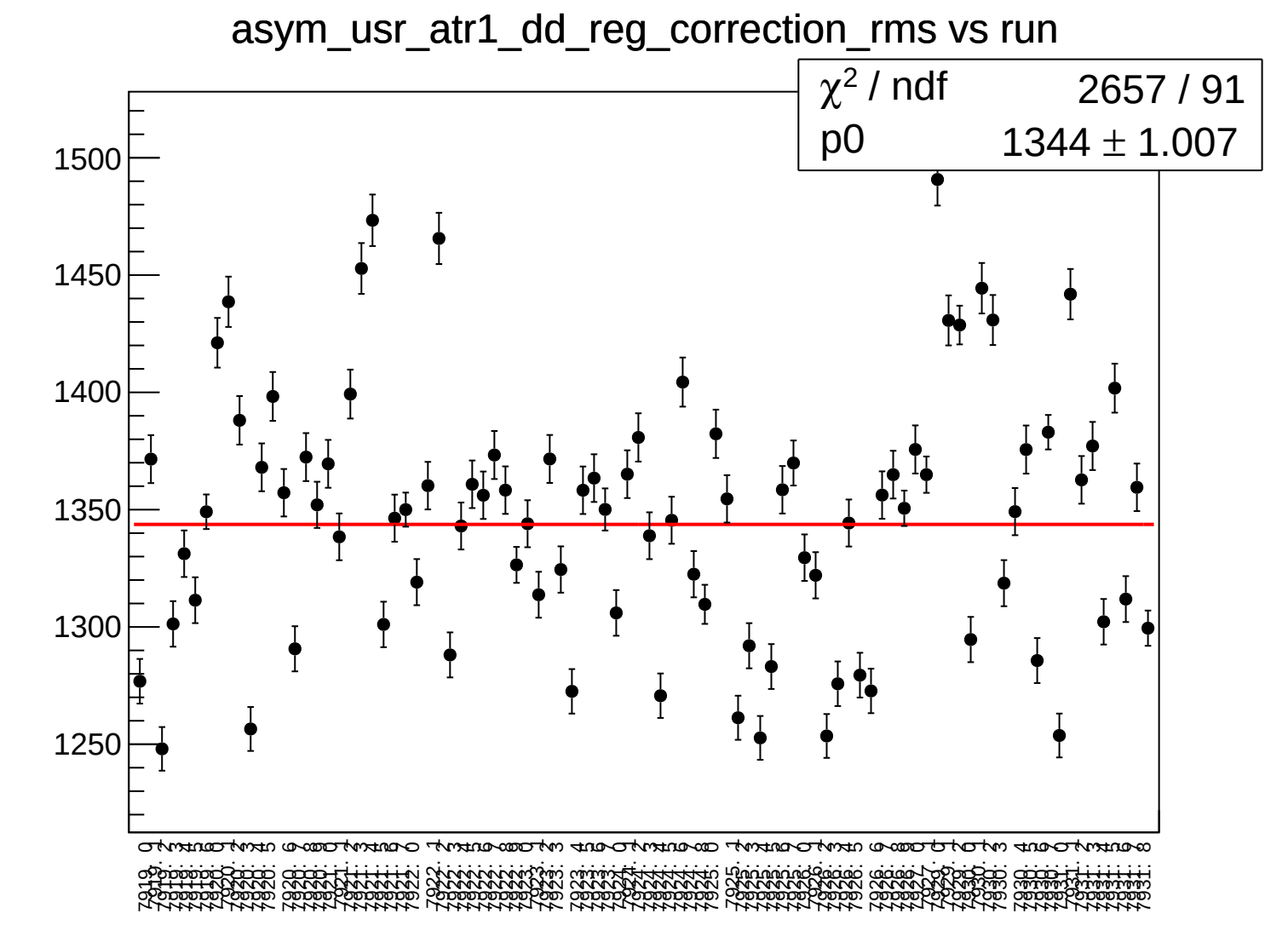

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.469e+05 / 91
p0 1.849e−10 ± 1.734e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

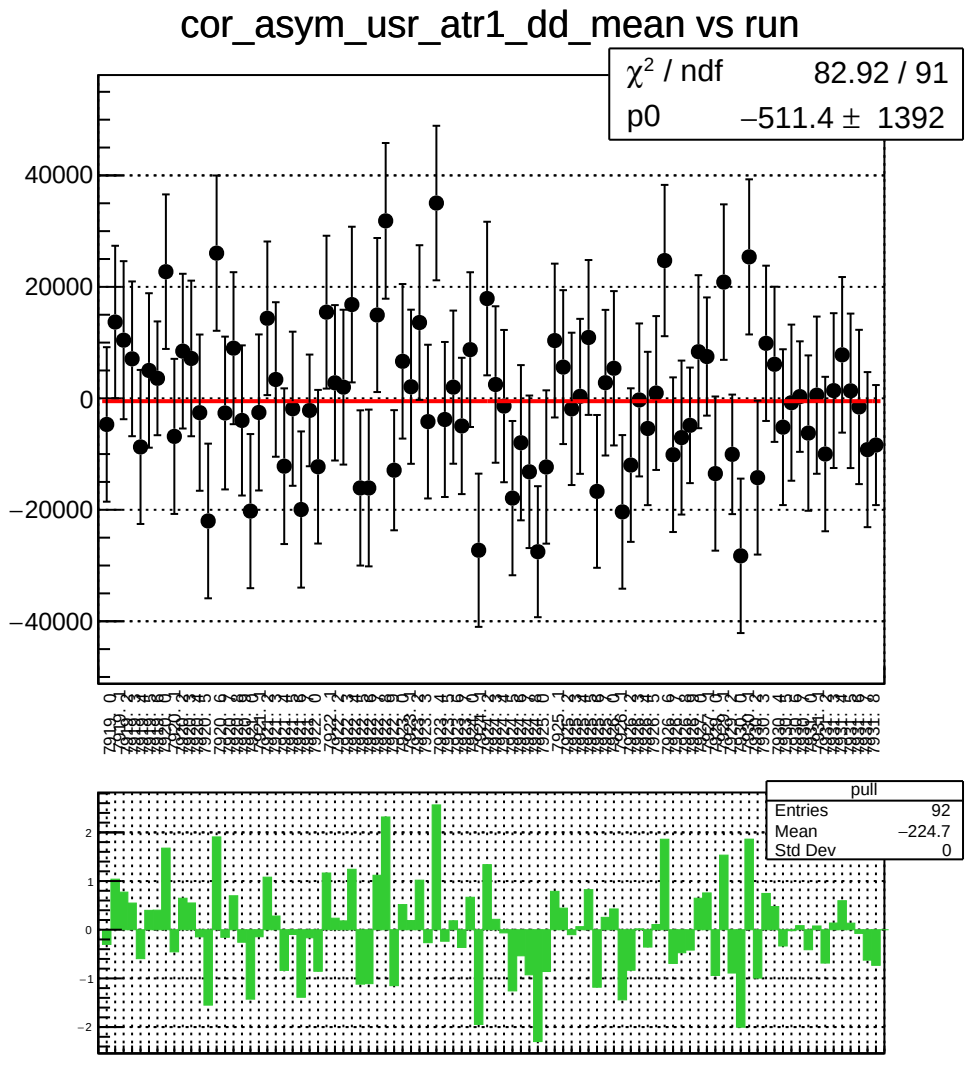

reg_asym_usr_atr1_dd_mean vs run
χ² / ndf 82.92 / 91
p0 −511.3 ± 1392
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −224.6
Std Dev 0
2
1
0
−1
−2

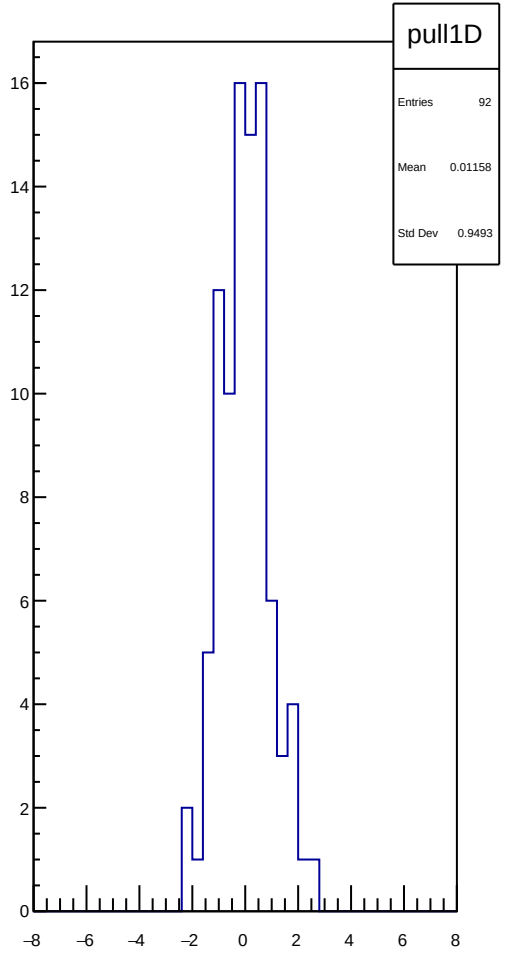

pull1D
Entries 92
Mean 0.01158
Std Dev 0.9493
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

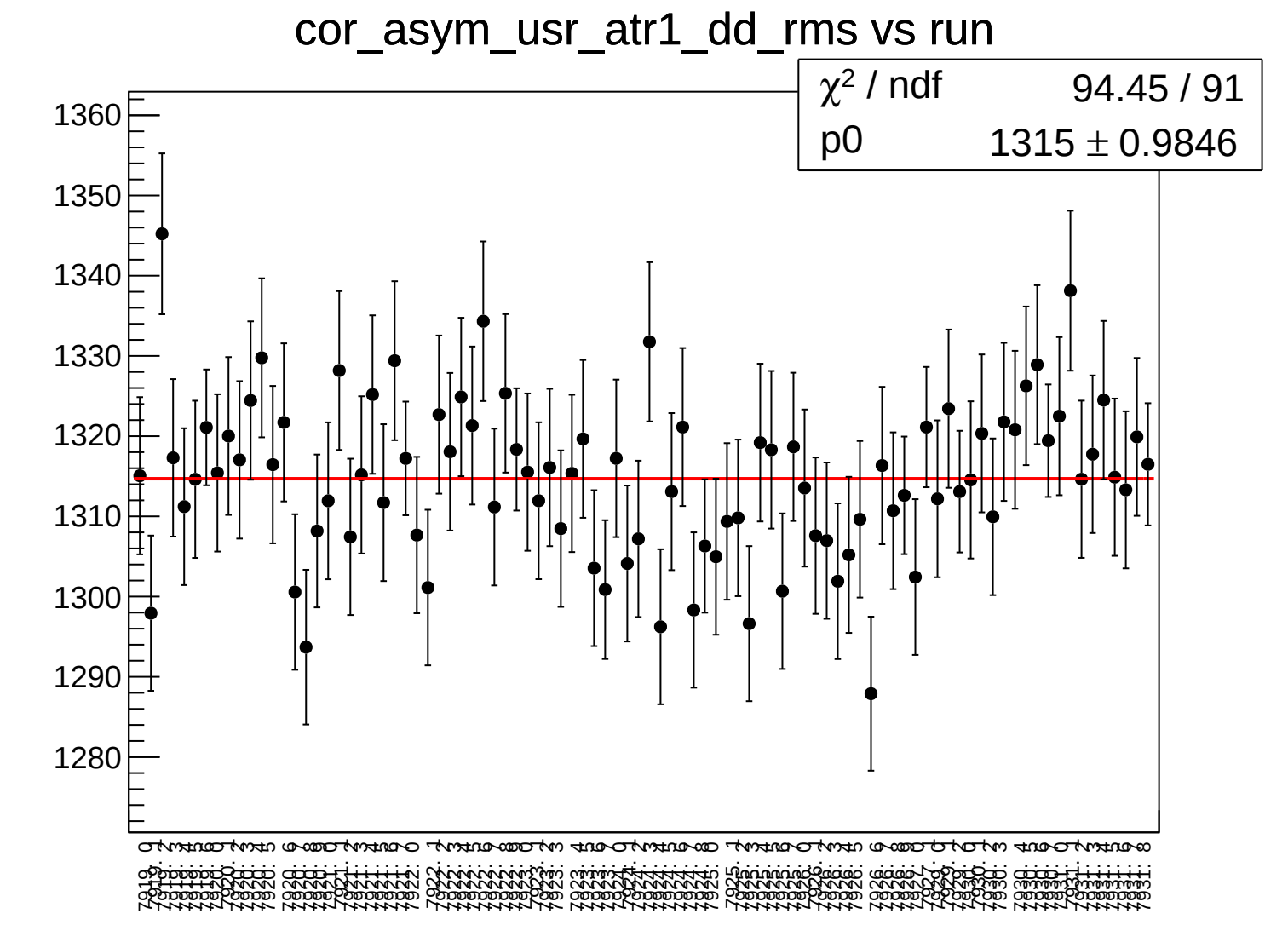

reg_asym_usr_atr1_dd_rms vs run
χ^2 / ndf 94.45 / 91
p0 1315 ± 0.9846
1360
1350
1340
1330
1320
1310
1300
1290
1280

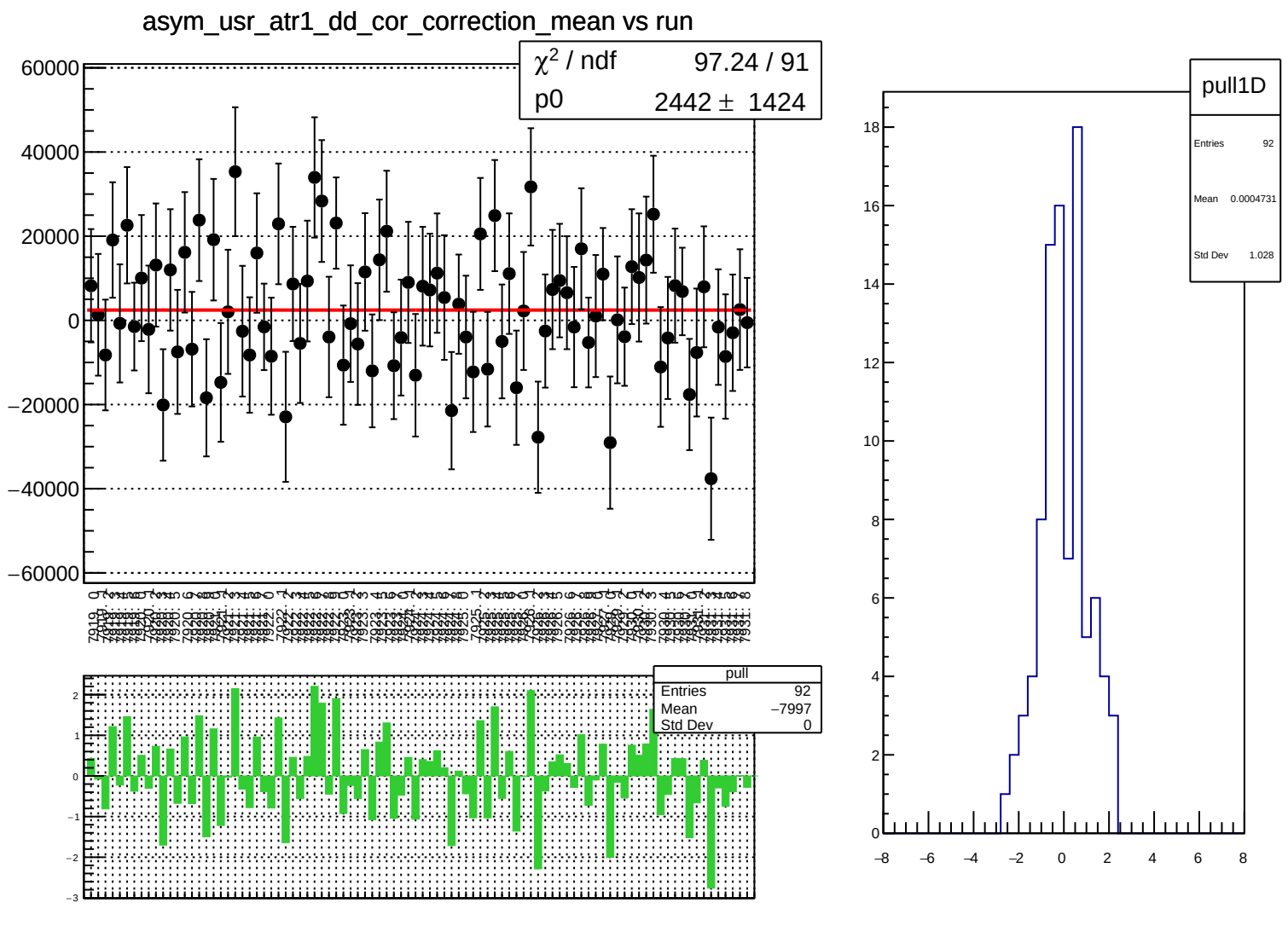

asym_usr_atr1_dd_reg_correction_mean vs run
χ² / ndf 97.24 / 91
p0 2442 ± 1424
pull
Entries 92
Mean −7956
Std Dev 0
pull1D
Entries 92
Mean 0.0004755
Std Dev 1.028

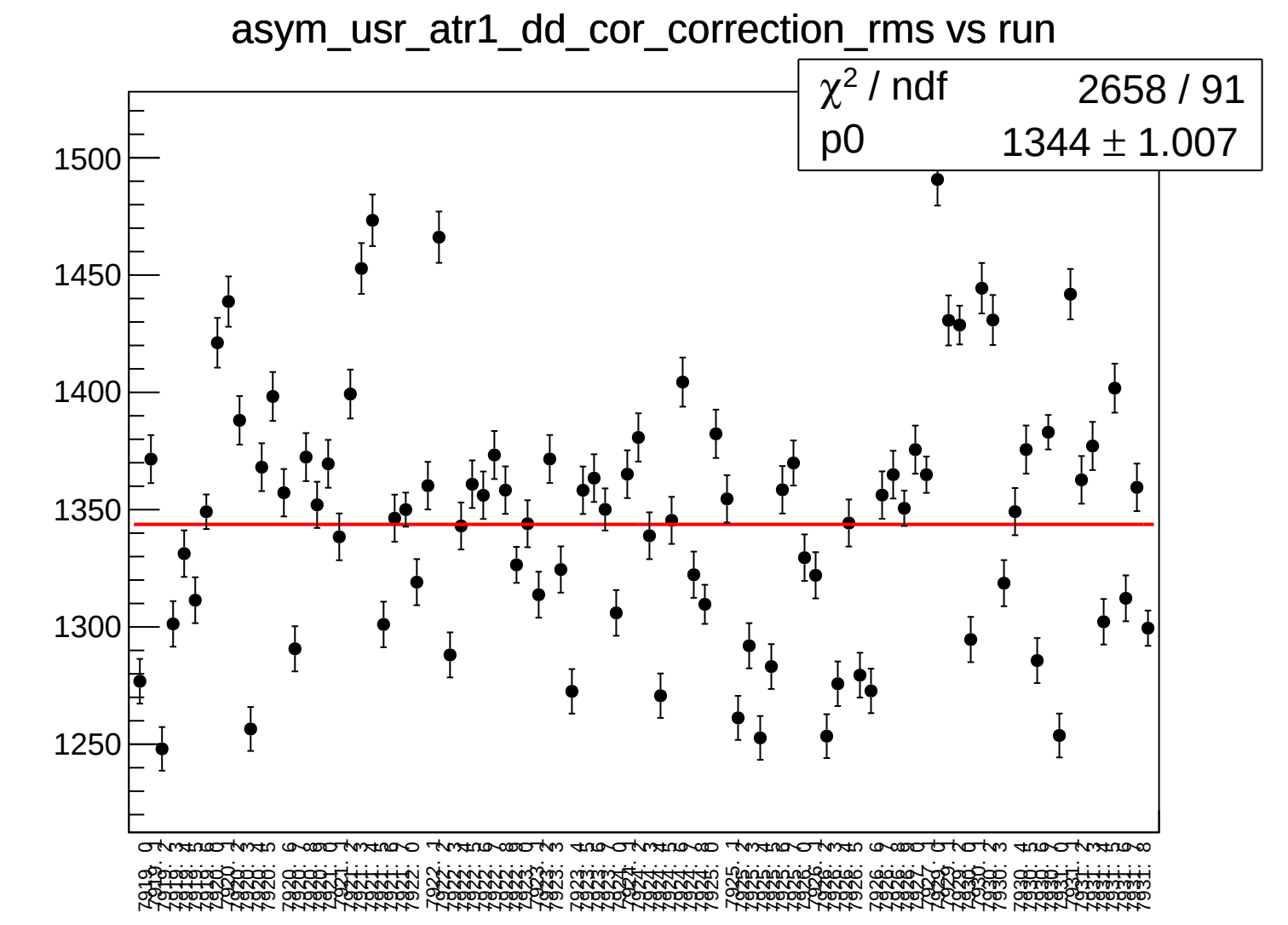

asym_usr_atr1_dd_reg_correction_rms vs run
χ² / ndf 2657 / 91
p0 1344 ± 1.007
1500
1450
1400
1350
1300
1250

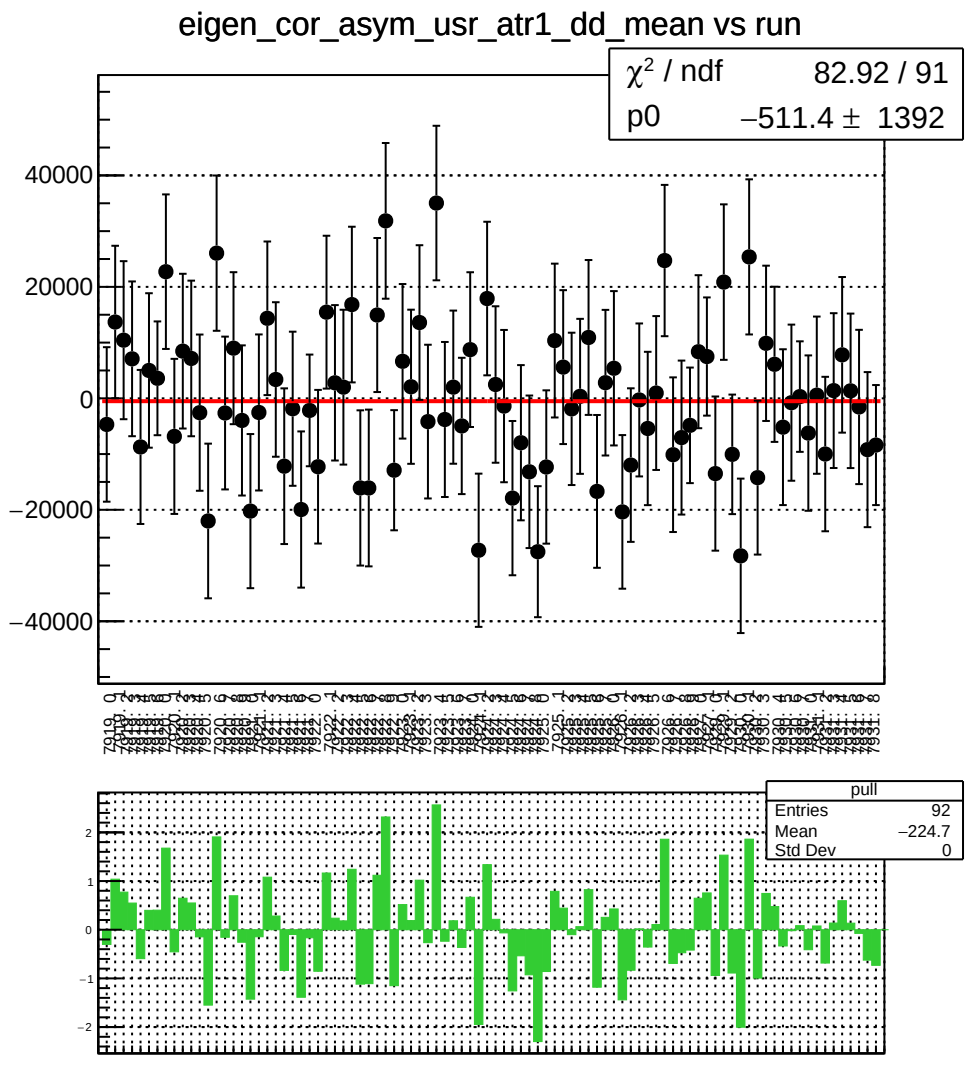

cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 82.92 / 91
p0 −511.4 ± 1392
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −224.7
Std Dev 0
2
1
0
−1
−2

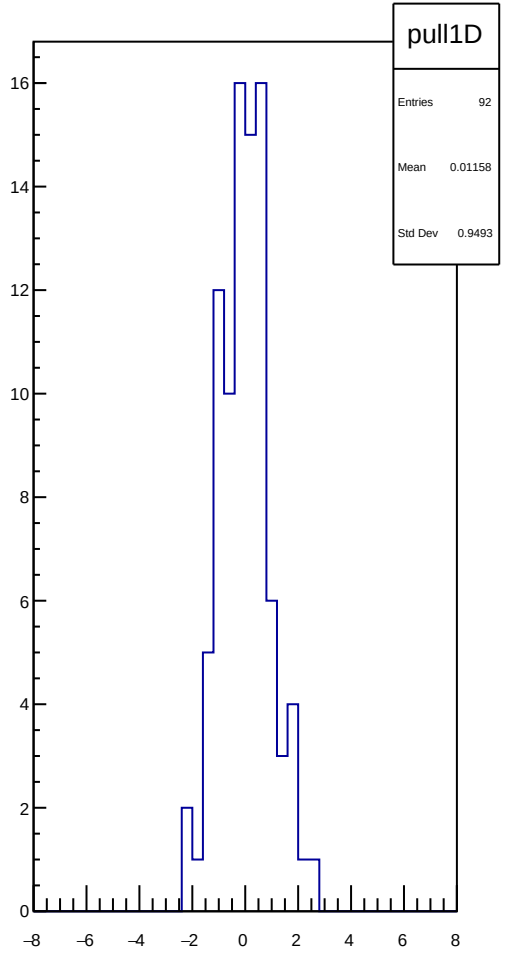

pull1D
Entries 92
Mean 0.01158
Std Dev 0.9493
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

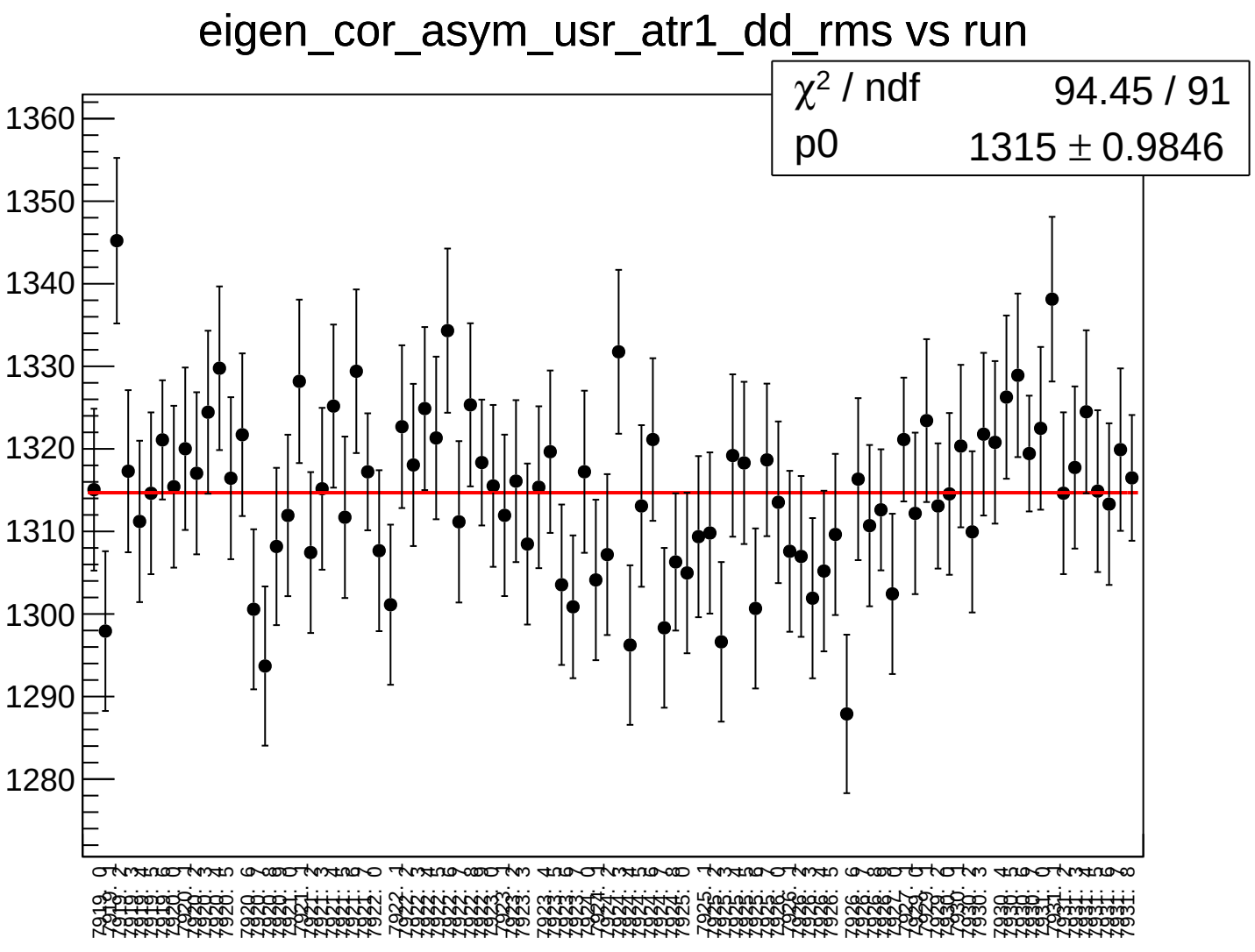

cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 94.45 / 91
p0 1315 ± 0.9846
1360
1350
1340
1330
1320
1310
1300
1290
1280

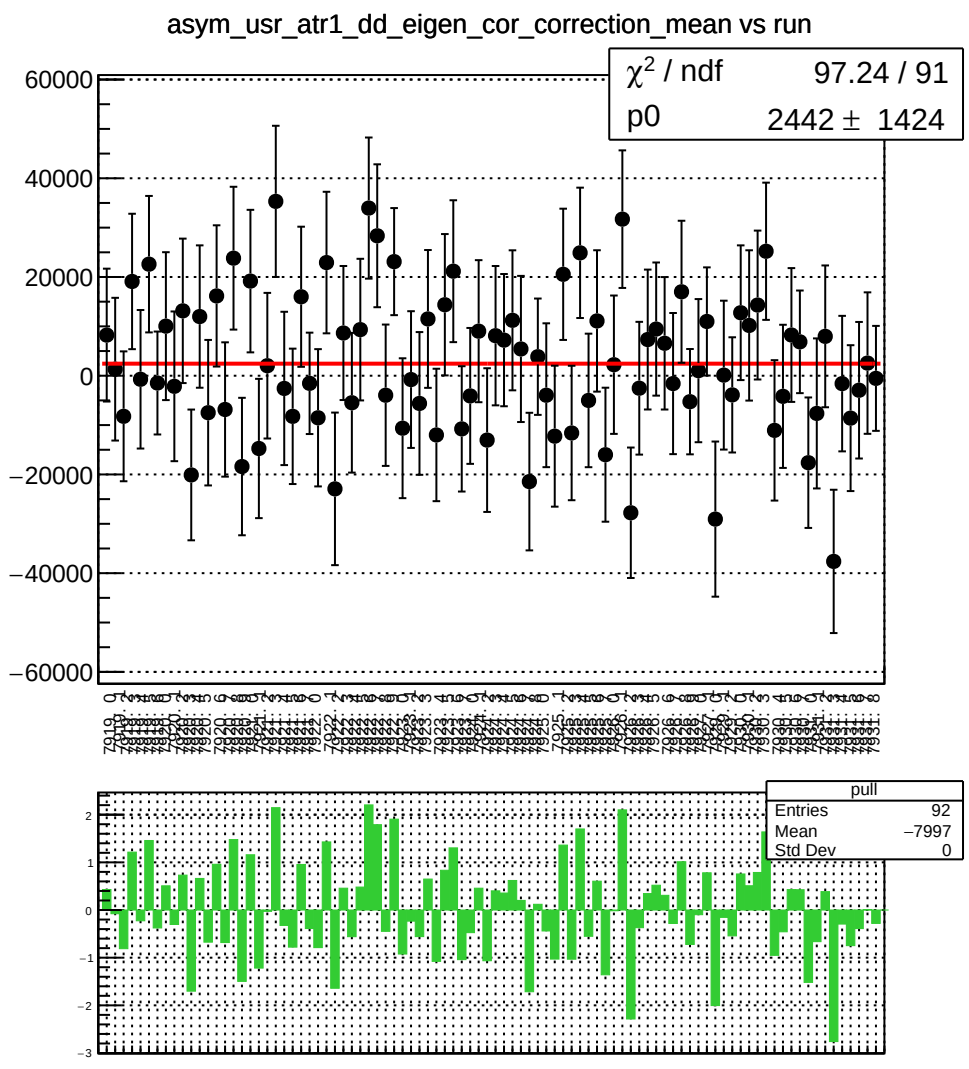

asym_usr_atr1_dd_cor_correction_mean vs run
χ² / ndf 97.24 / 91
p0 2442 ± 1424
pull
Entries 92
Mean −7997
Std Dev 0
pull1D
Entries 92
Mean 0.0004731
Std Dev 1.028

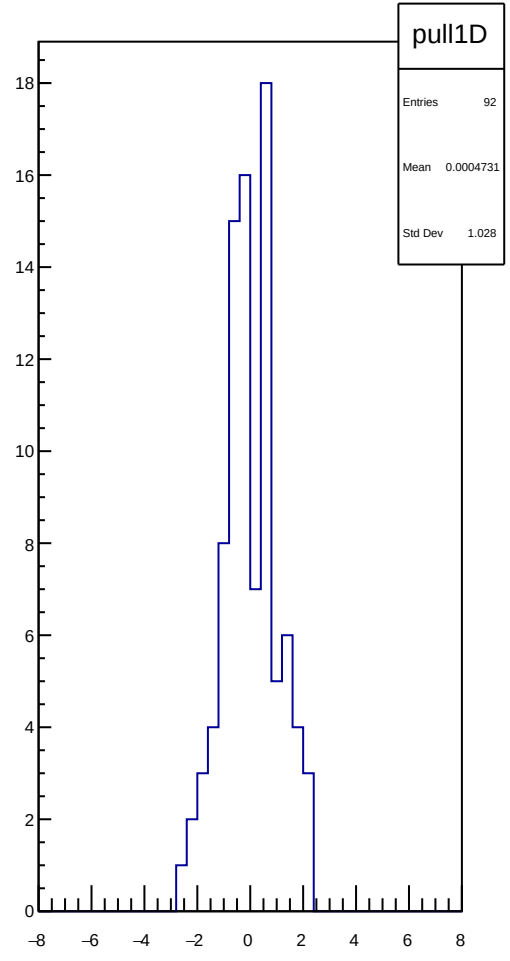

asym_usr_atr1_dd_cor_correction_rms vs run
χ² / ndf 2658 / 91
p0 1344 ± 1.007
1500
1450
1400
1350
1300
1250

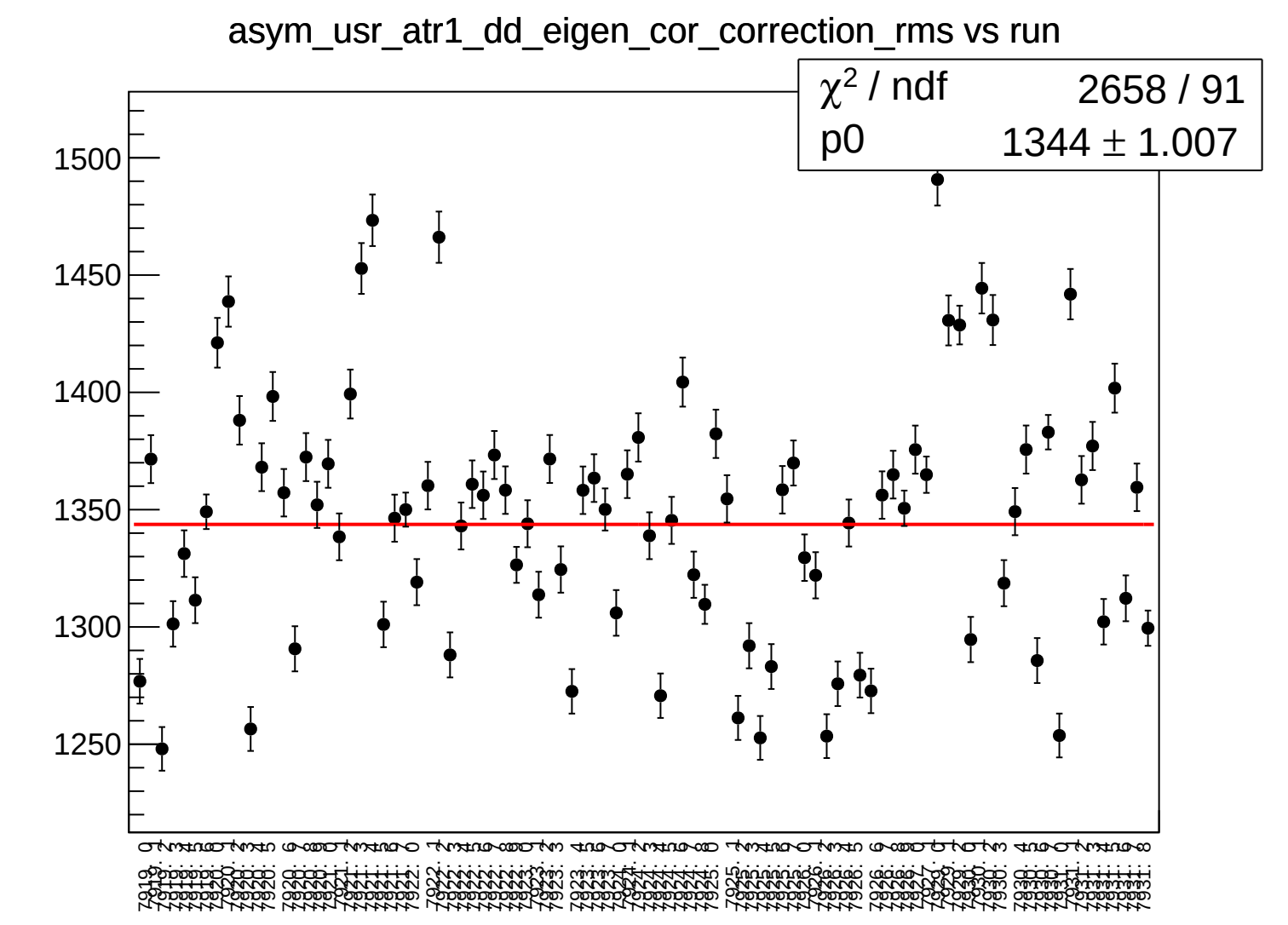

eigen_cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 82.92 / 91
p0 −511.4 ± 1392
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −224.7
Std Dev 0
2
1
0
−1
−2

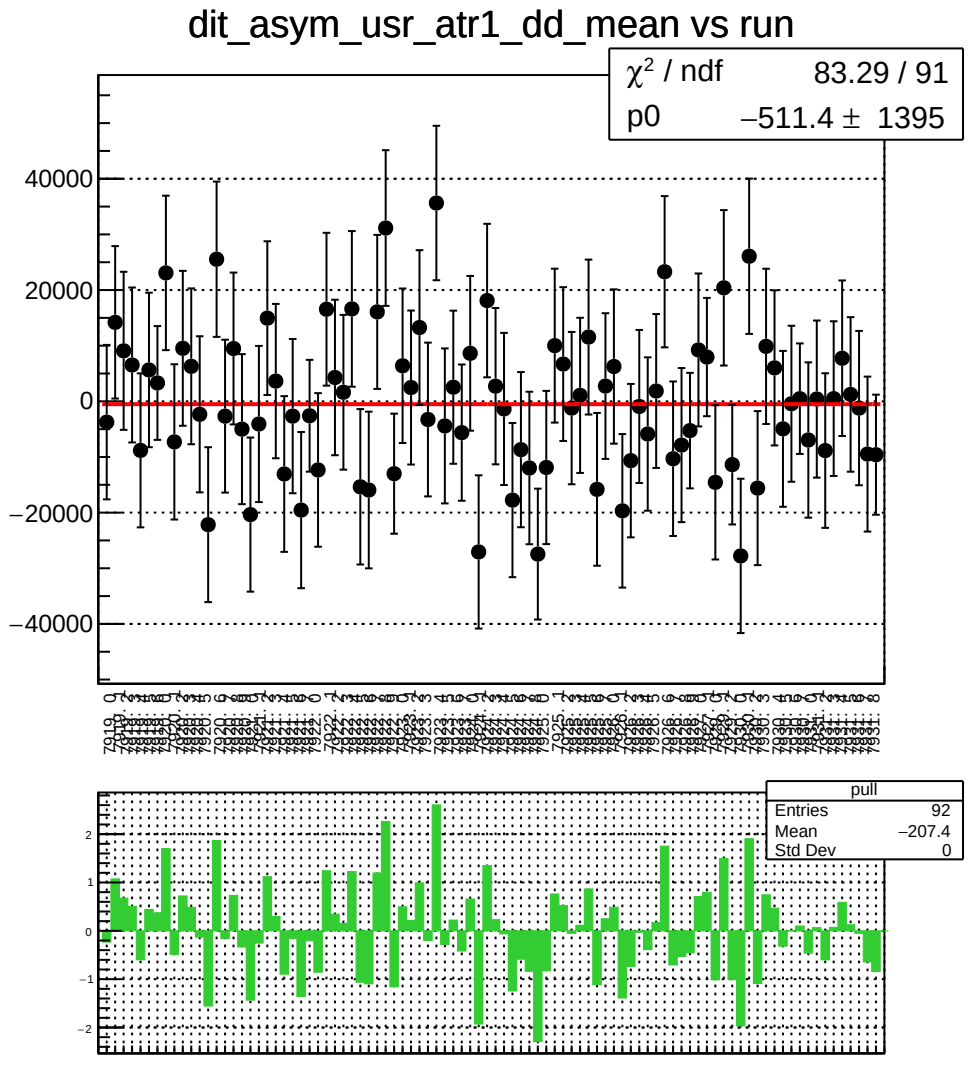

pull1D
Entries 92
Mean 0.01158
Std Dev 0.9493
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

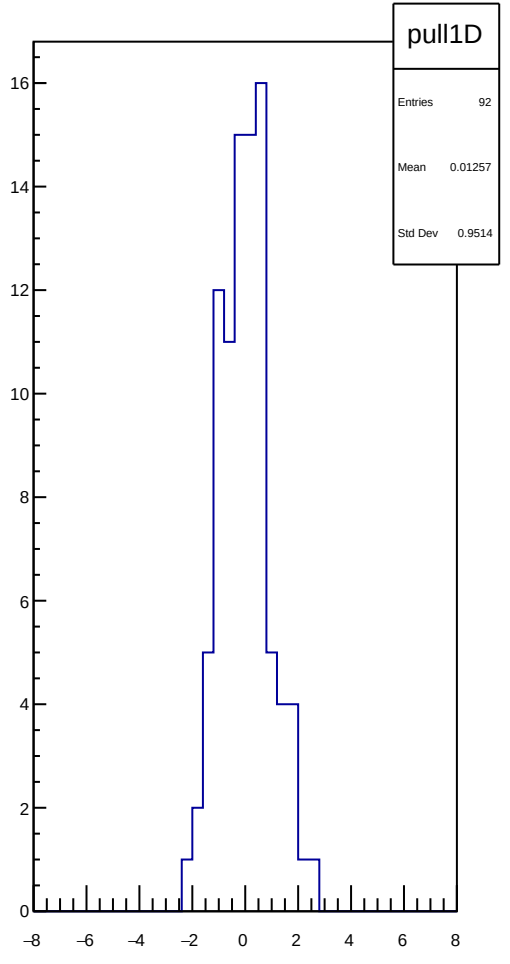

eigen_cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 94.45 / 91
p0 1315 ± 0.9846
1360
1350
1340
1330
1320
1310
1300
1290
1280

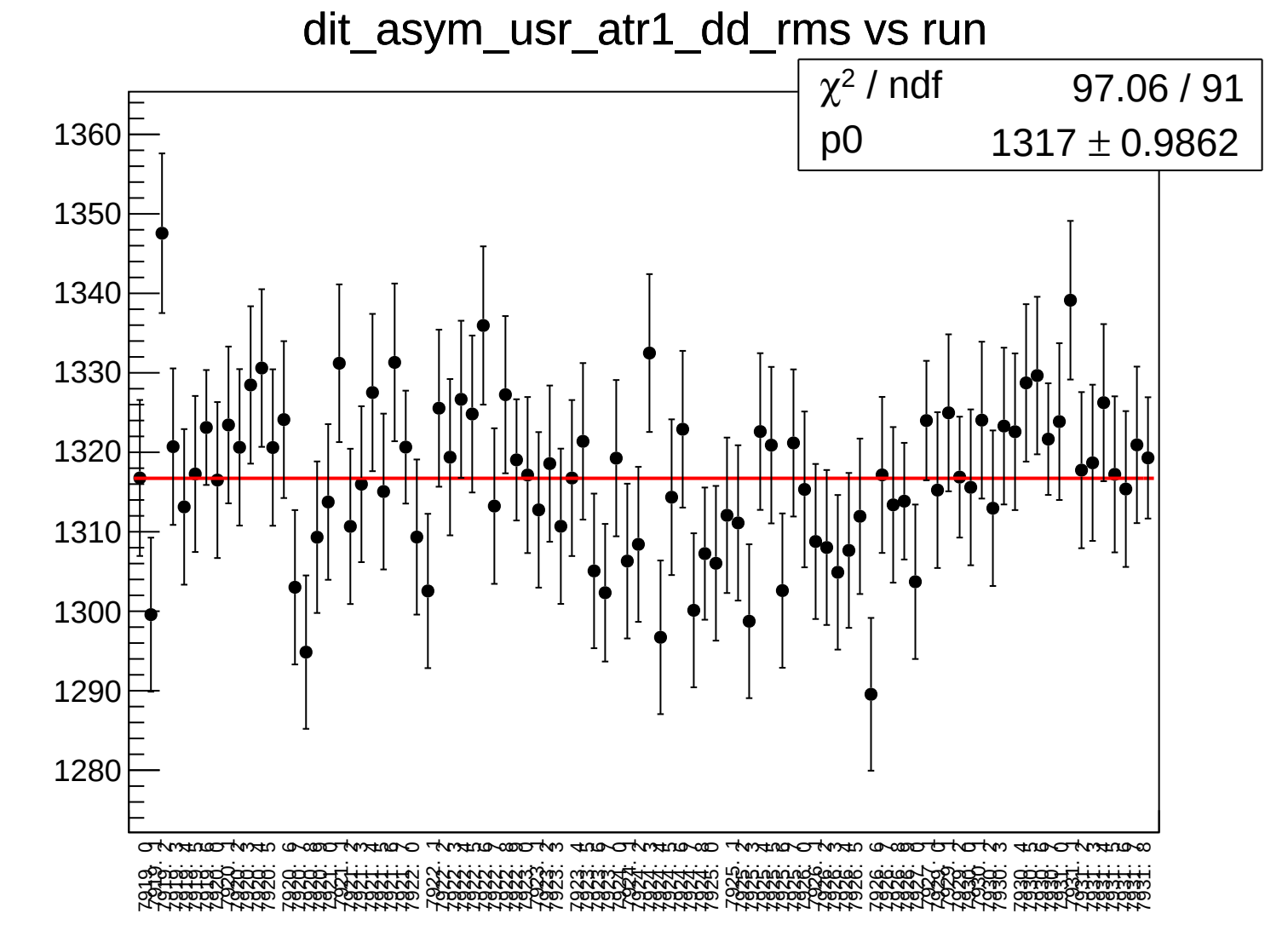

asym_usr_atr1_dd_eigen_cor_correction_mean vs run
χ² / ndf 97.24 / 91
p0 2442 ± 1424
pull
Entries 92
Mean −7997
Std Dev 0

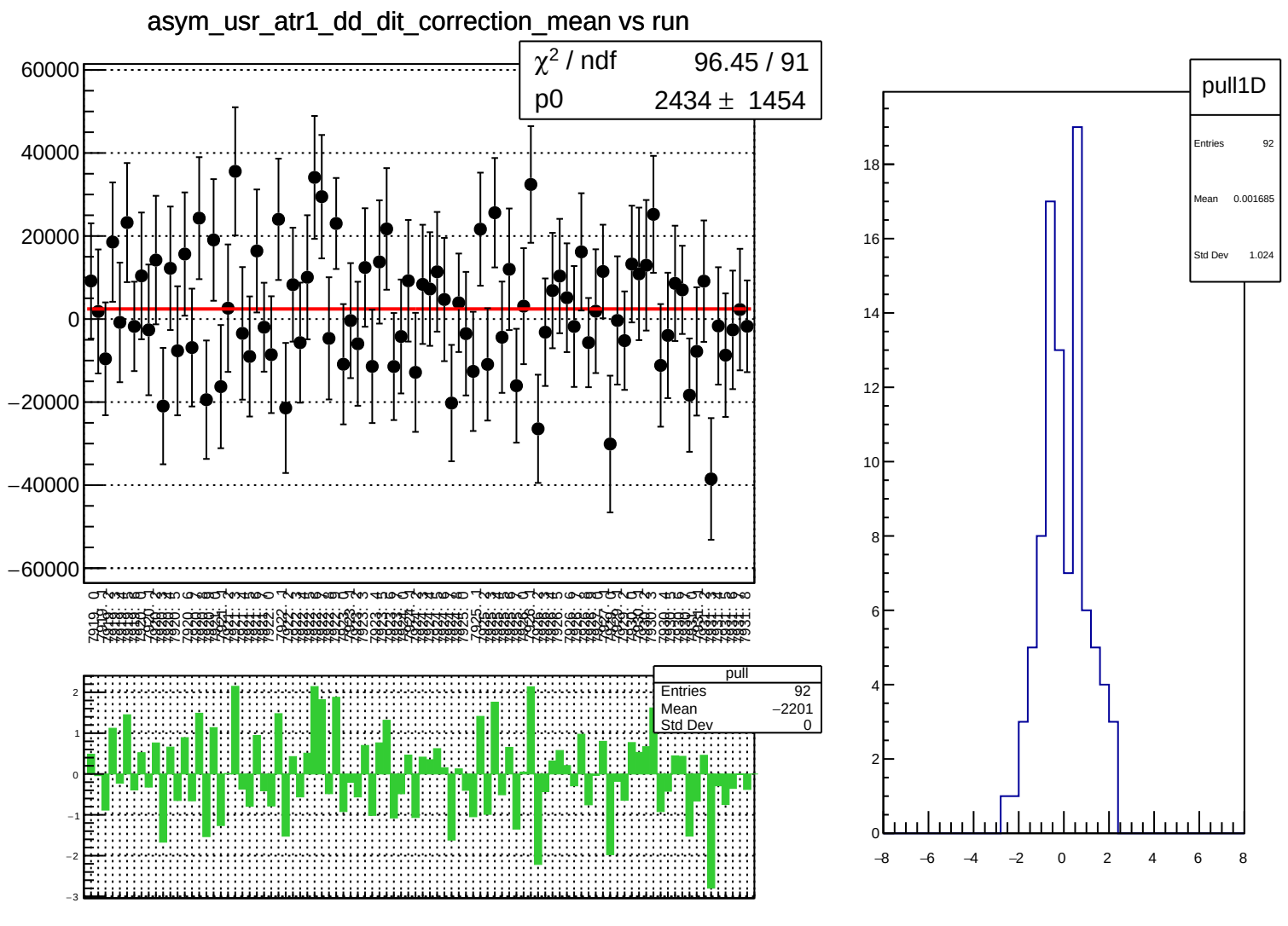

pull1D
Entries 92
Mean 0.0004731
Std Dev 1.028

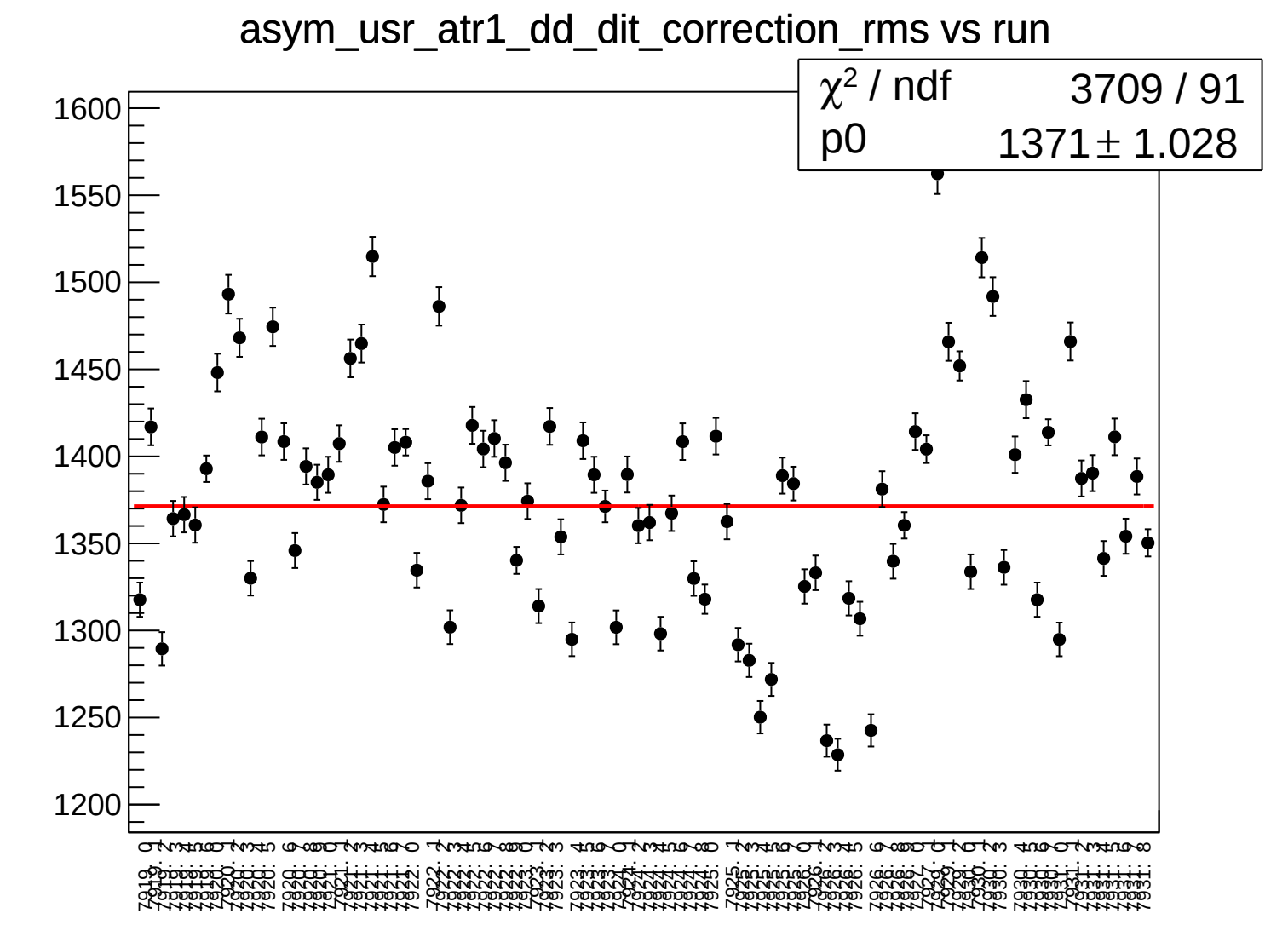

asym_usr_atr1_dd_eigen_cor_correction_rms vs run
χ² / ndf 2658 / 91
p0 1344 ± 1.007
1500
1450
1400
1350
1300
1250

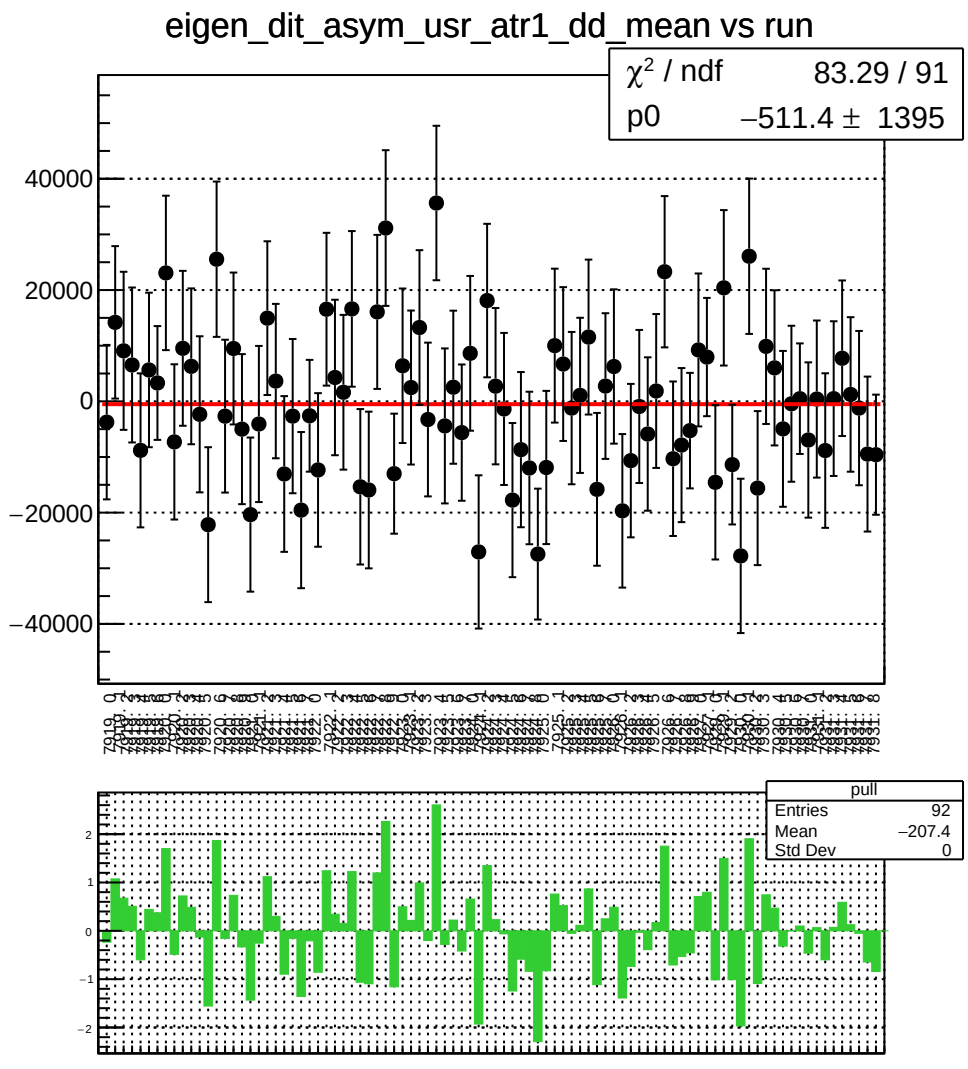

dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 83.29 / 91
p0 −511.4 ± 1395
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −207.4
Std Dev 0
2
1
0
−1
−2

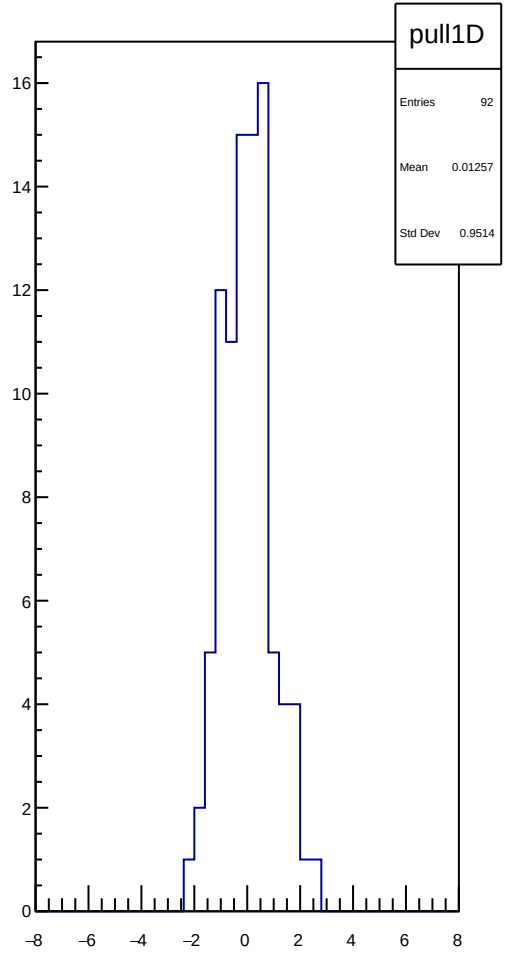

pull1D
Entries 92
Mean 0.01257
Std Dev 0.9514
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

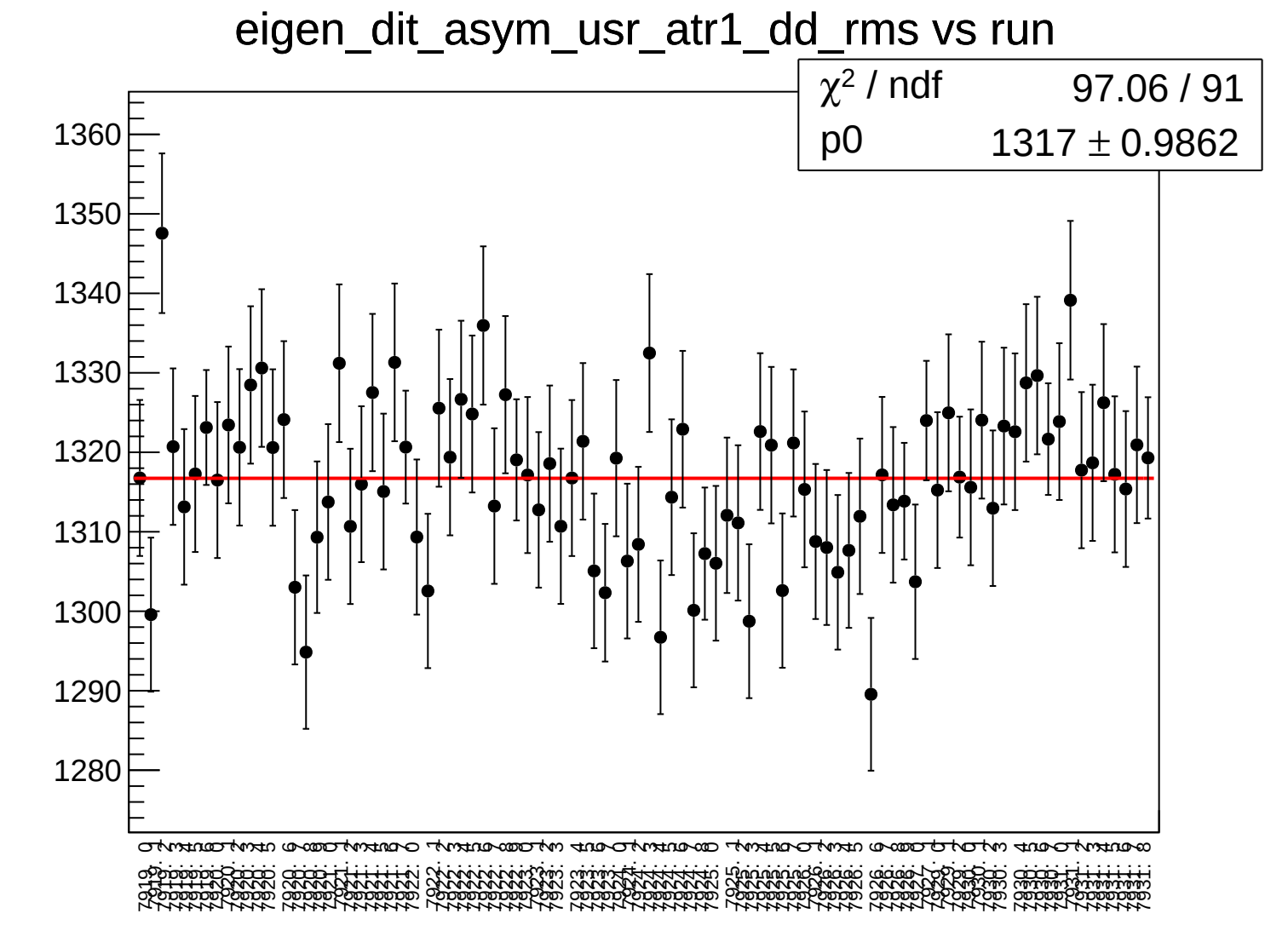

dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 97.06 / 91
p0 1317 ± 0.9862
1360
1350
1340
1330
1320
1310
1300
1290
1280

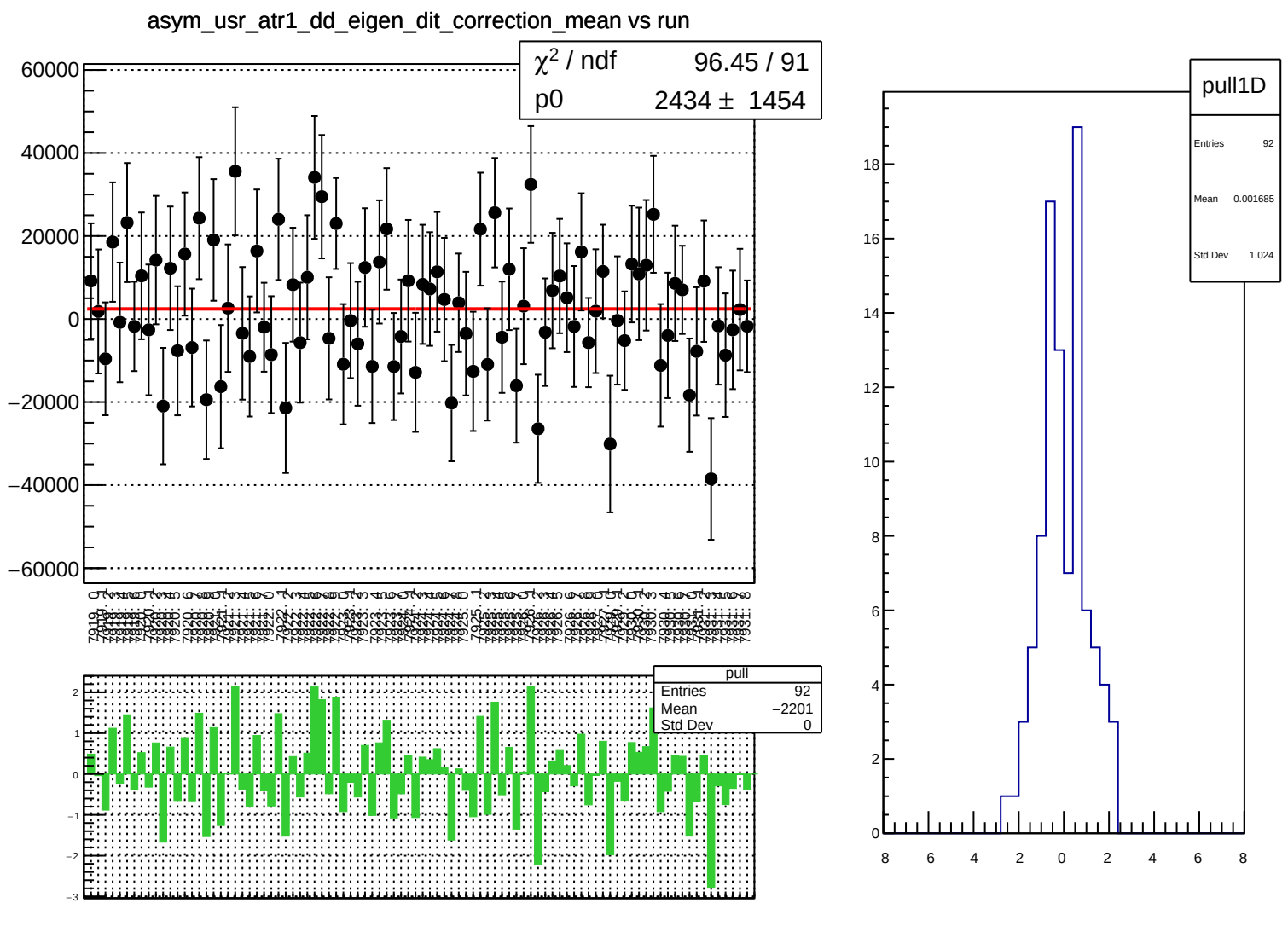

asym_usr_atr1_dd_dit_correction_mean vs run
χ² / ndf 96.45 / 91
p0 2434 ± 1454
pull
Entries 92
Mean −2201
Std Dev 0
pull1D
Entries 92
Mean 0.001685
Std Dev 1.024

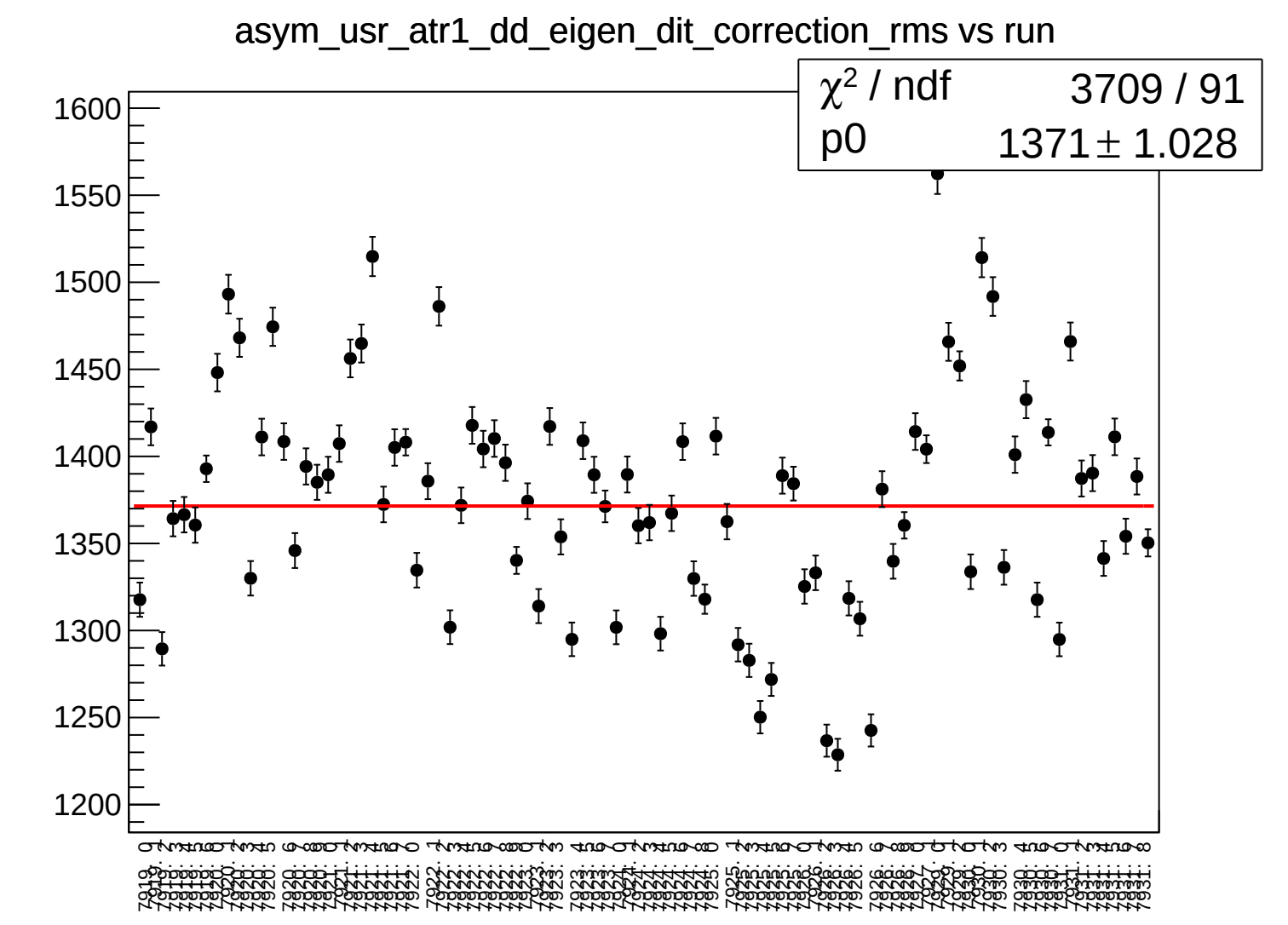

asym_usr_atr1_dd_dit_correction_rms vs run
χ² / ndf 3709 / 91
p0 1371 ± 1.028
1600
1550
1500
1450
1400
1350
1300
1250
1200

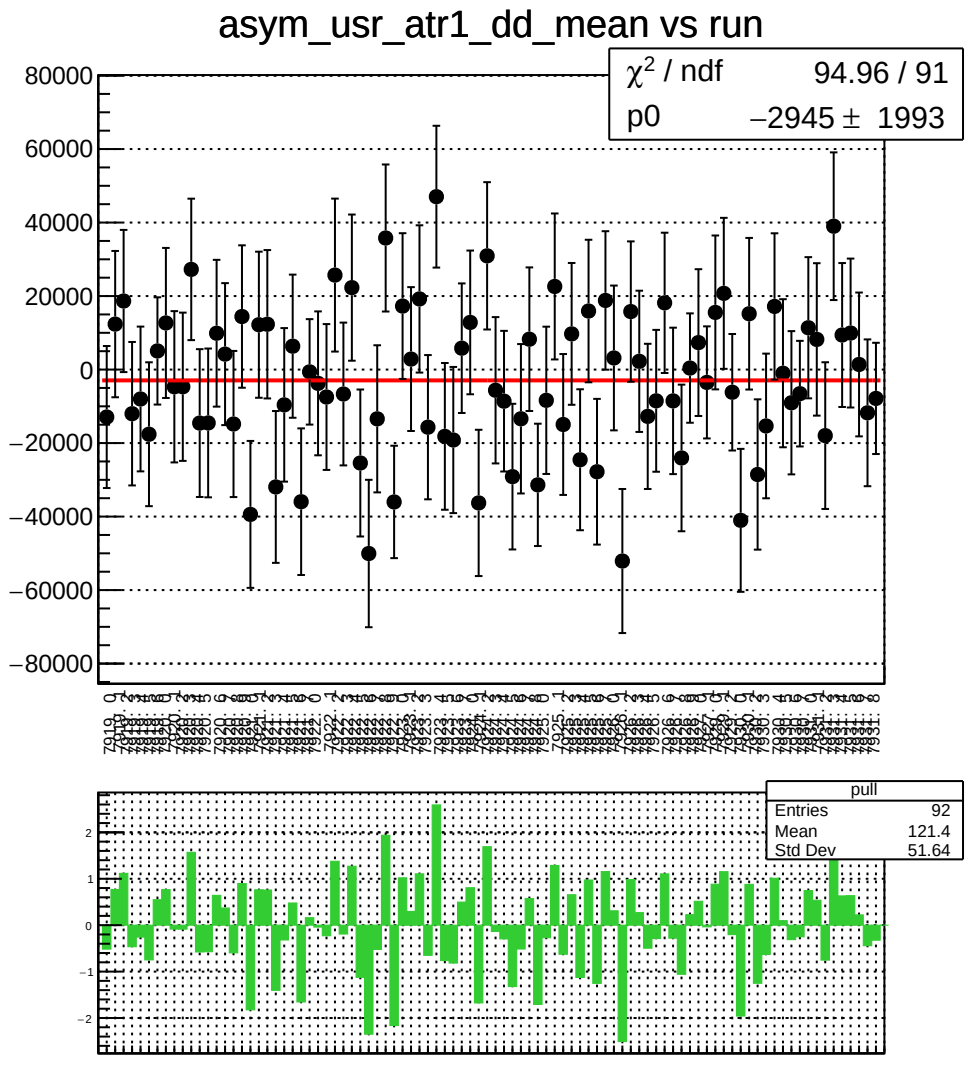

eigen_dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 83.29 / 91
p0 −511.4 ± 1395
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −207.4
Std Dev 0
2
1
0
−1
−2

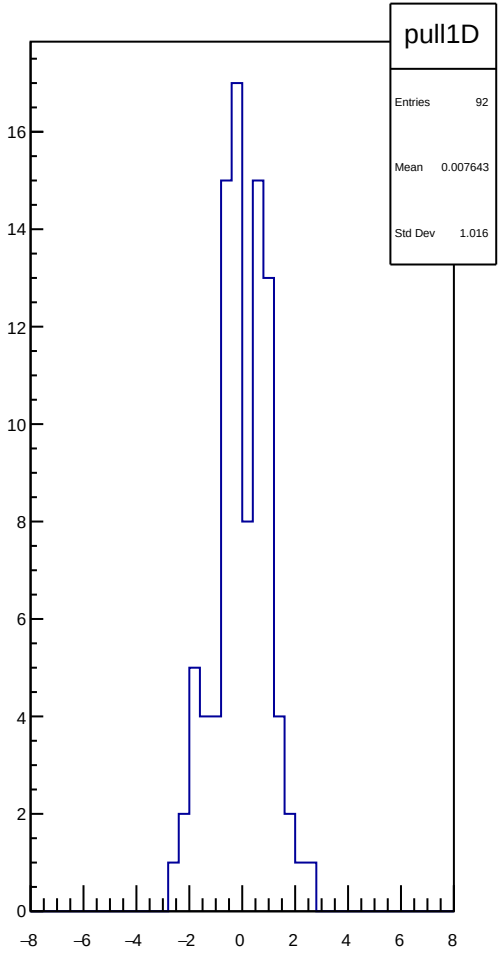

pull1D
Entries 92
Mean 0.01257
Std Dev 0.9514
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

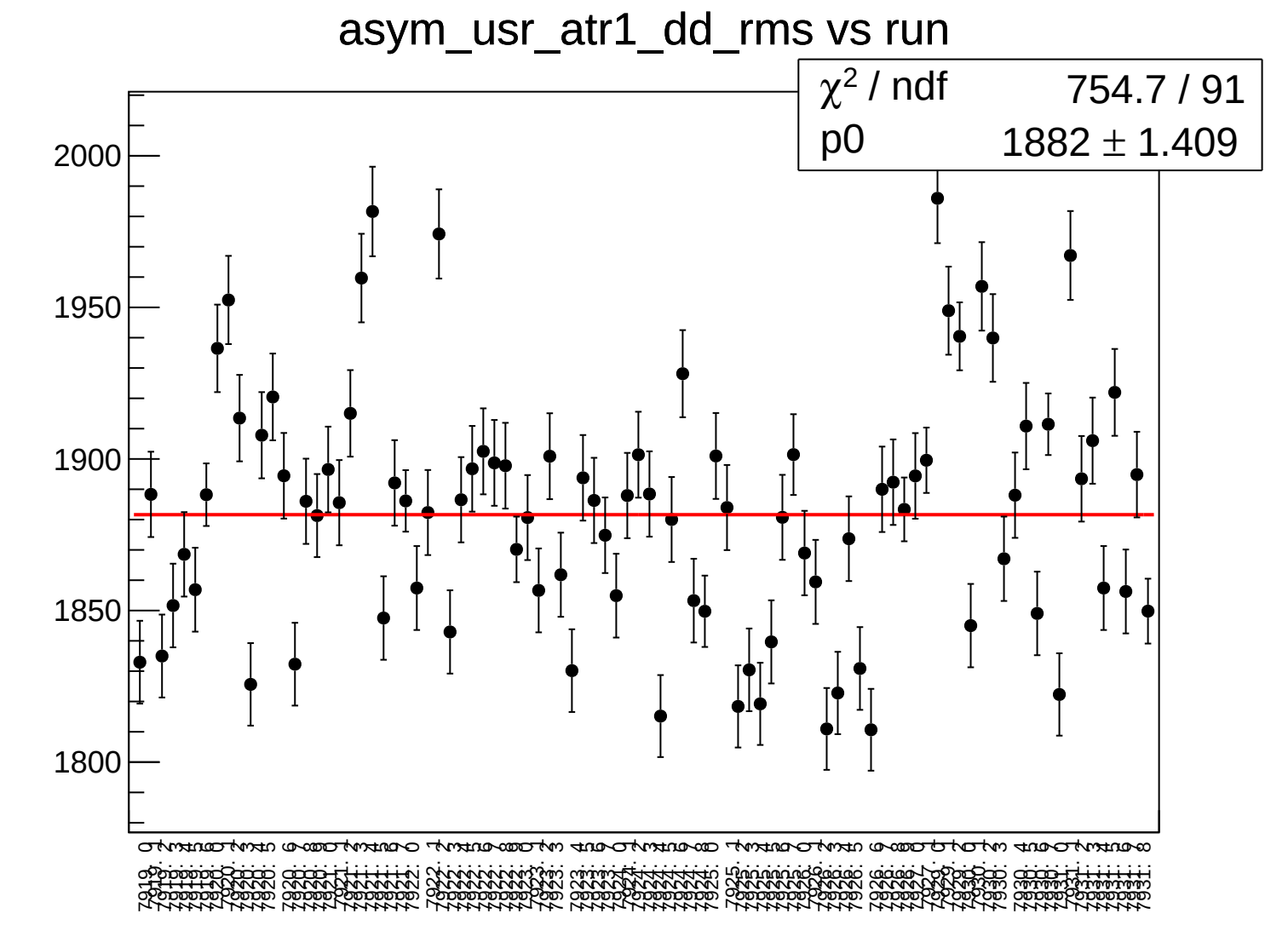

eigen_dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 97.06 / 91
p0 1317 ± 0.9862
1360
1350
1340
1330
1320
1310
1300
1290
1280

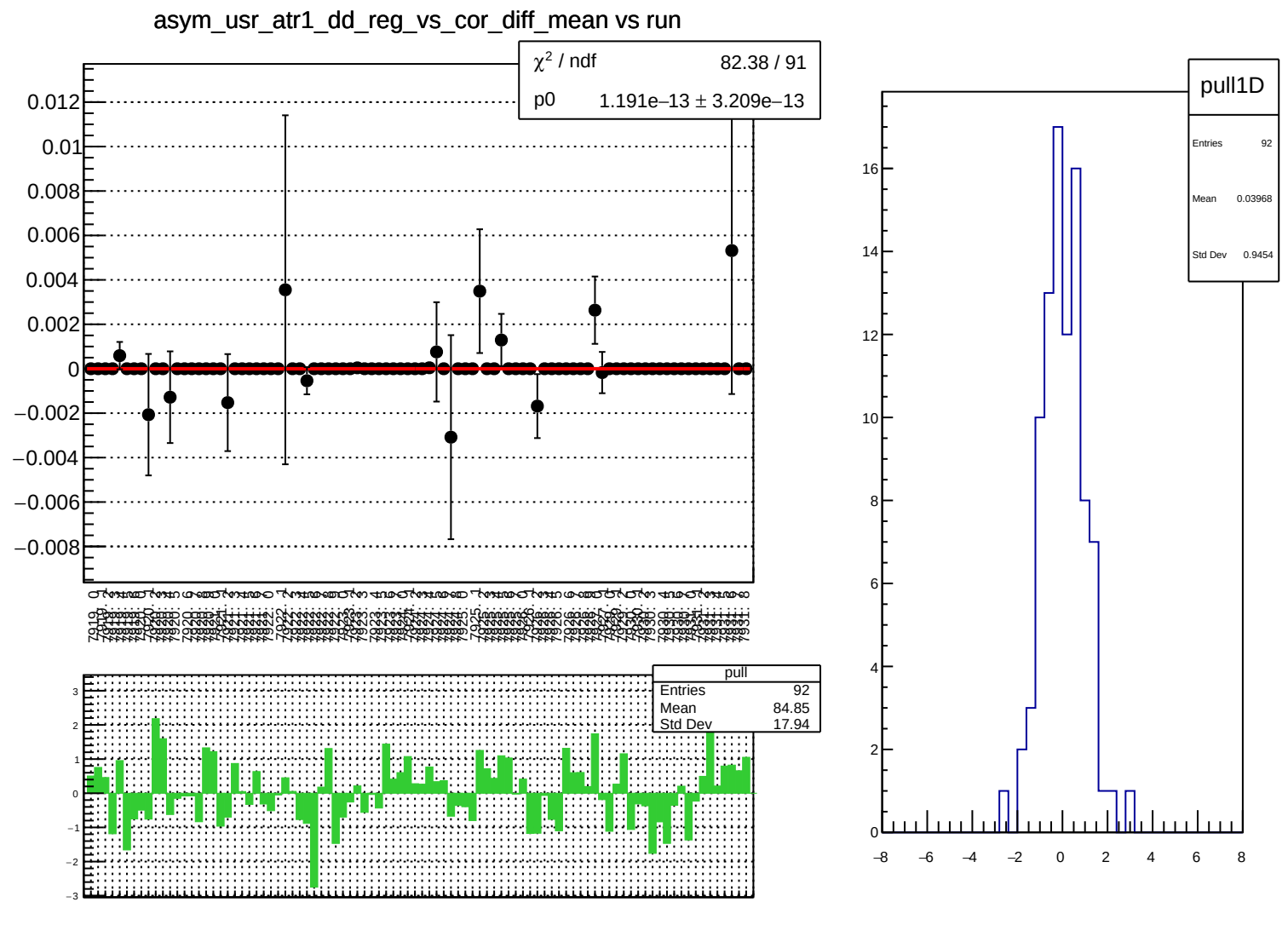

asym_usr_atr1_dd_eigen_dit_correction_mean vs run
χ² / ndf 96.45 / 91
p0 2434 ± 1454
pull
Entries 92
Mean −2201
Std Dev 0
pull1D
Entries 92
Mean 0.001685
Std Dev 1.024

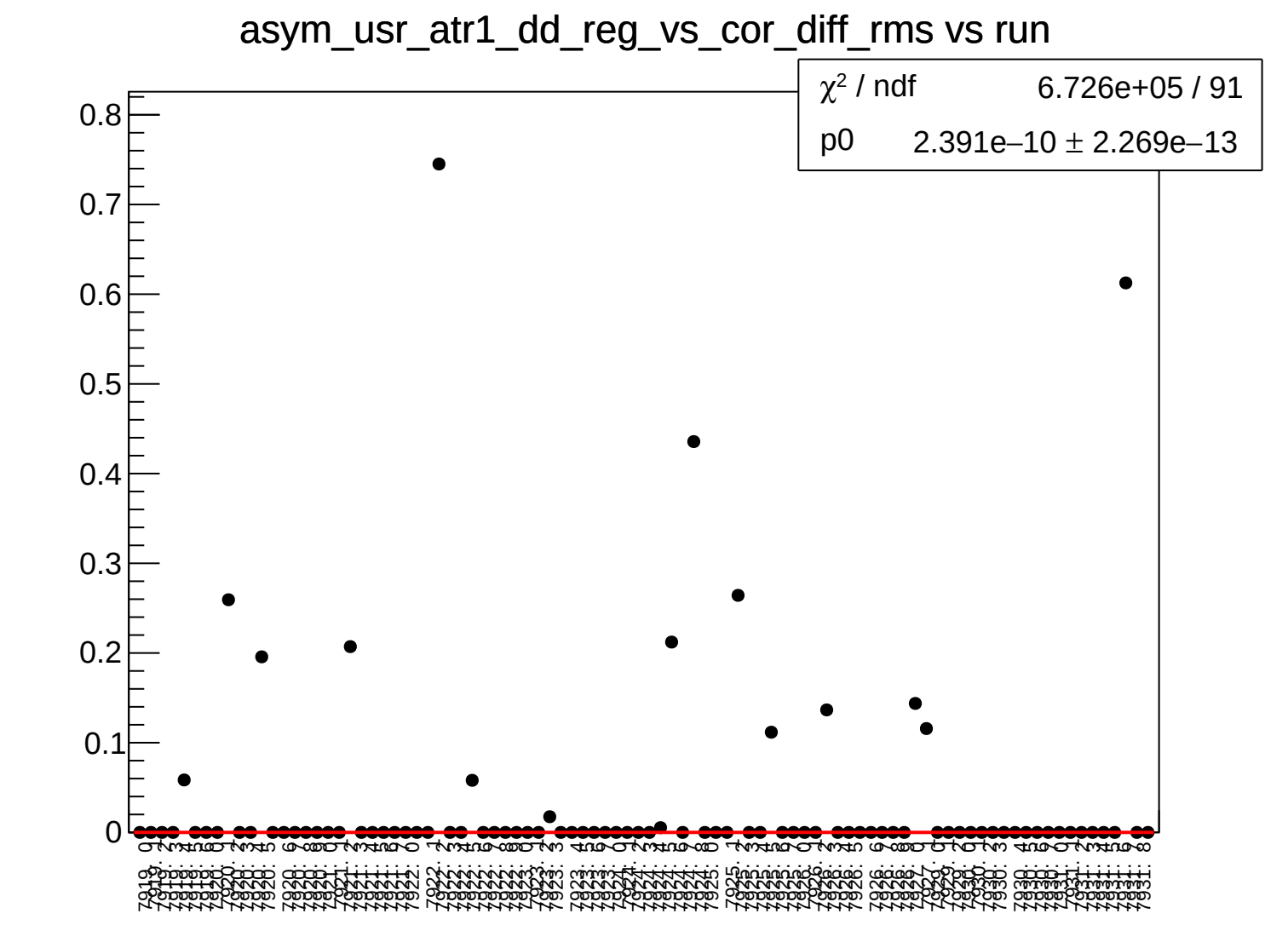

asym_usr_atr1_dd_eigen_dit_correction_rms vs run
χ² / ndf 3709 / 91
p0 1371 ± 1.028
1600
1550
1500
1450
1400
1350
1300
1250
1200

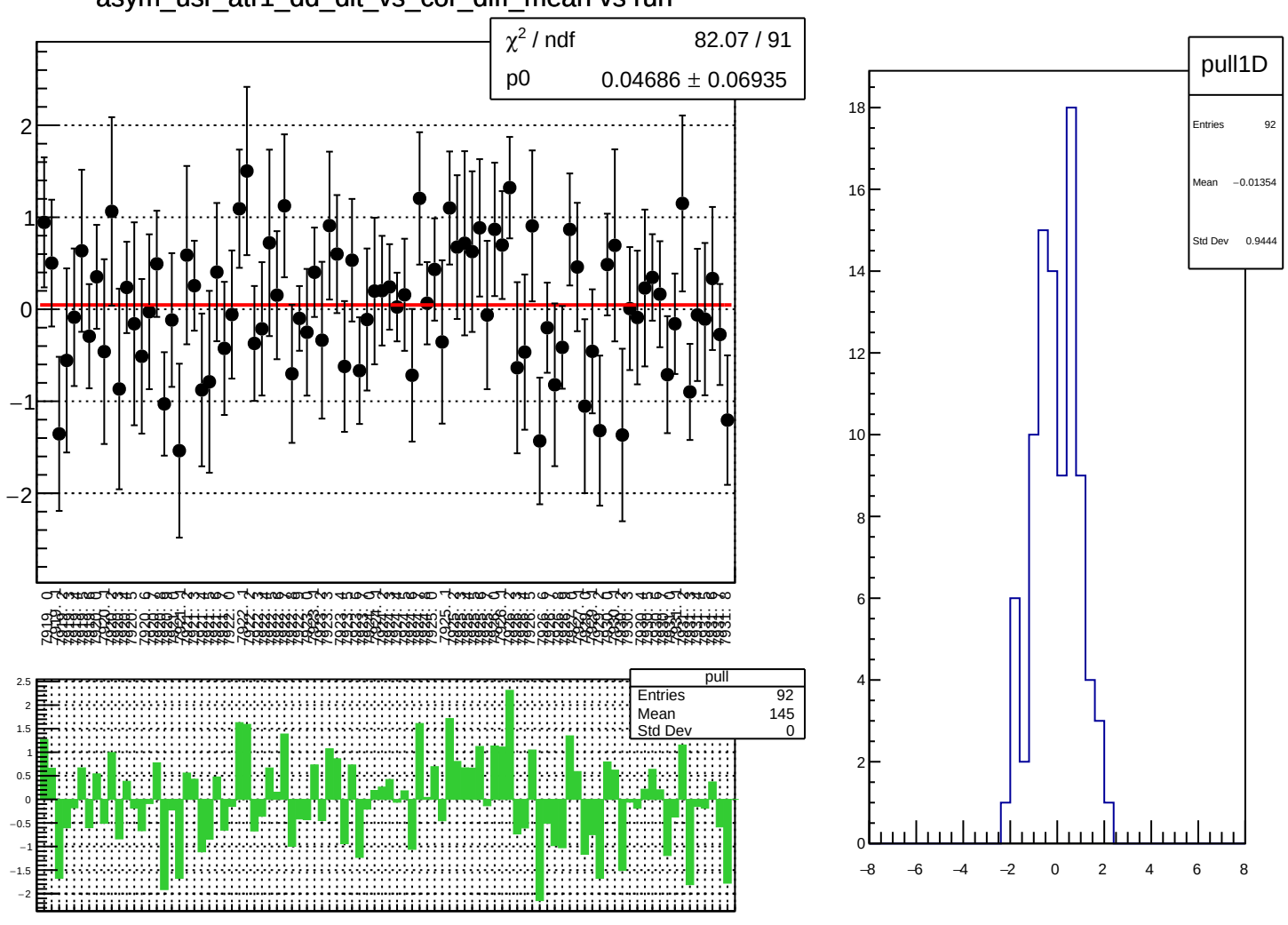

asym_usr_atr1_dd_mean vs run
χ² / ndf 94.96 / 91
p0 −2945 ± 1993
pull
Entries 92
Mean 121.4
Std Dev 51.64

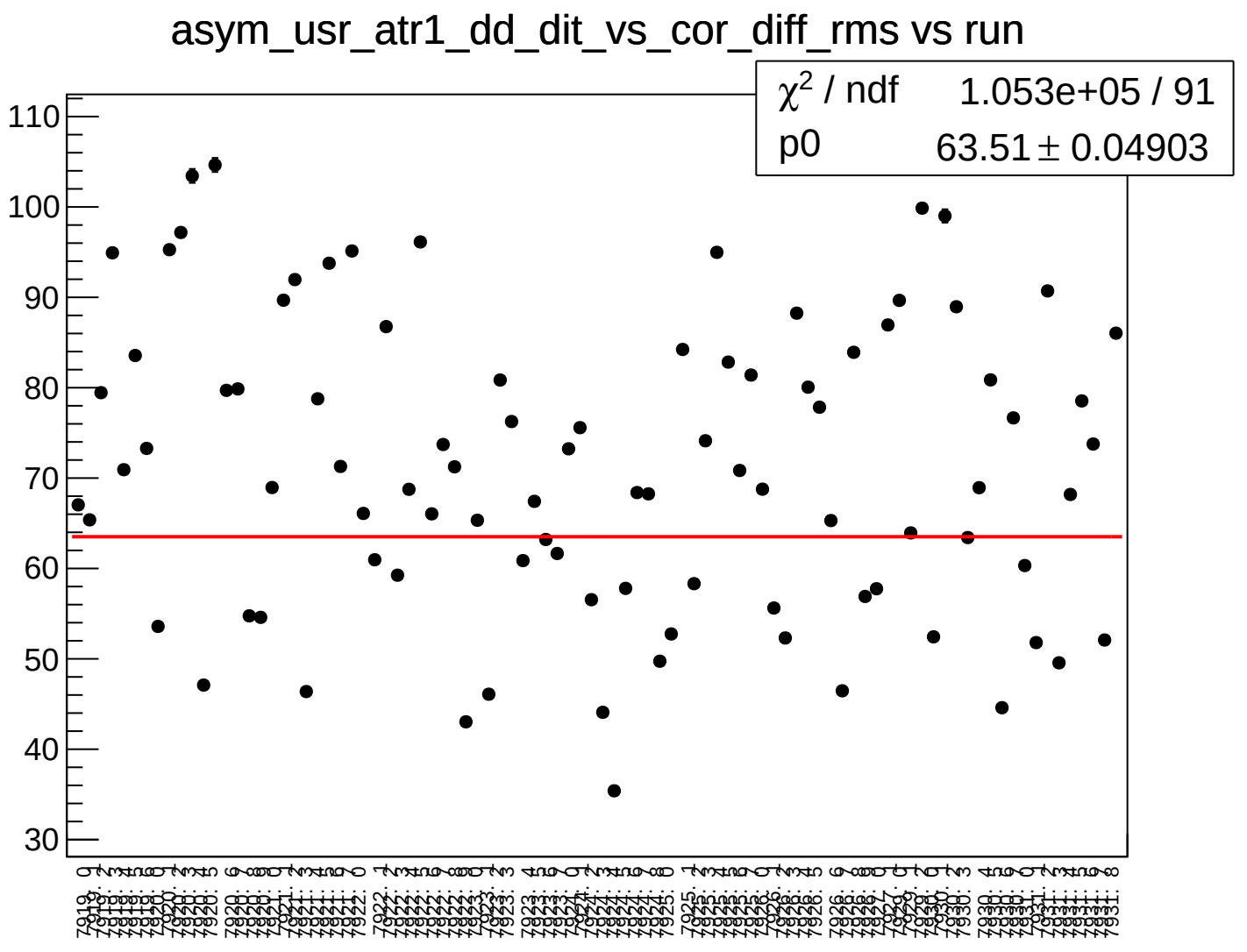

pull1D
Entries 92
Mean 0.007643
Std Dev 1.016

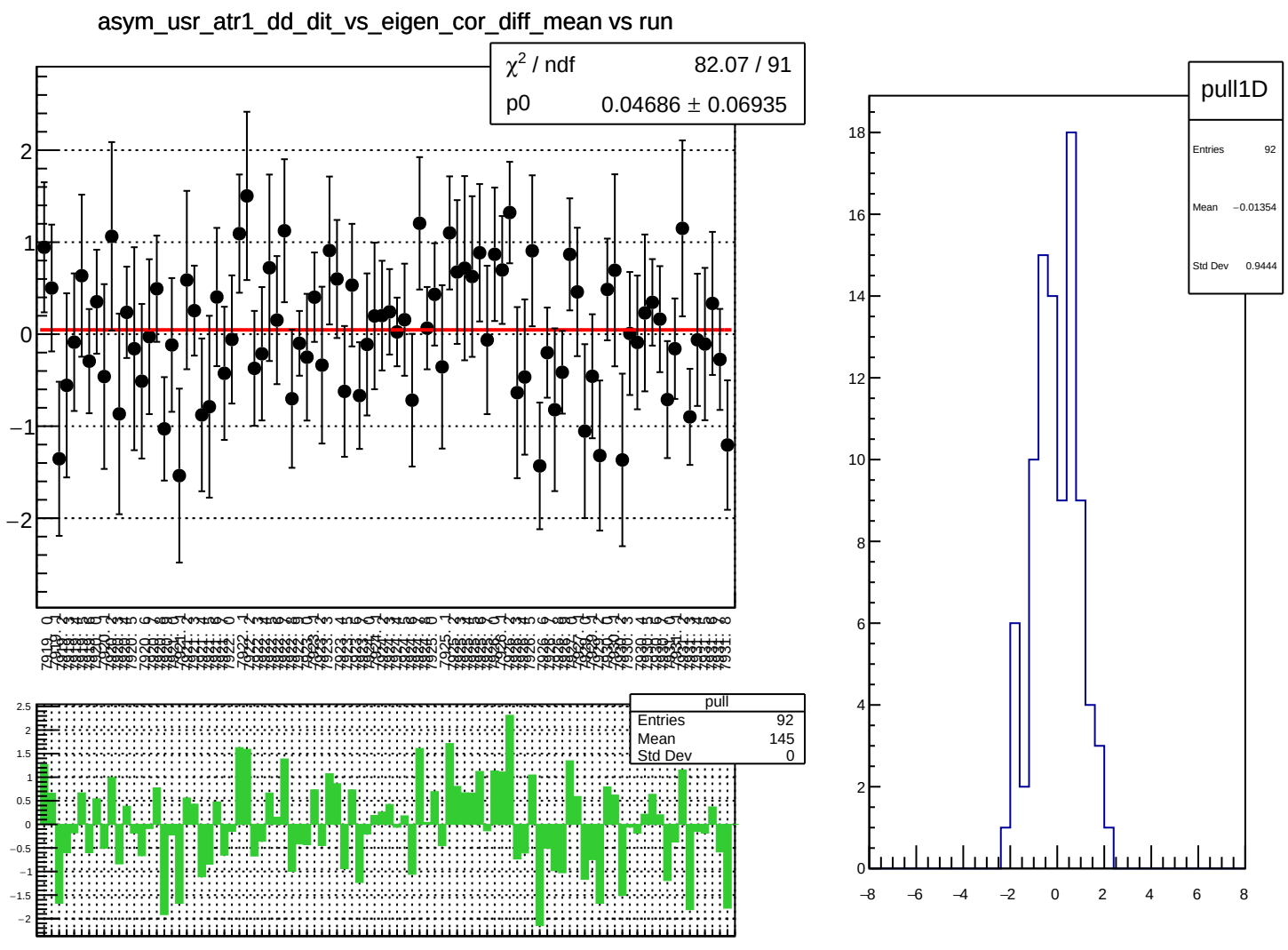

asym_usr_atr1_dd_rms vs run
χ² / ndf 754.7 / 91
p0 1882 ± 1.409
2000
1950
1900
1850
1800

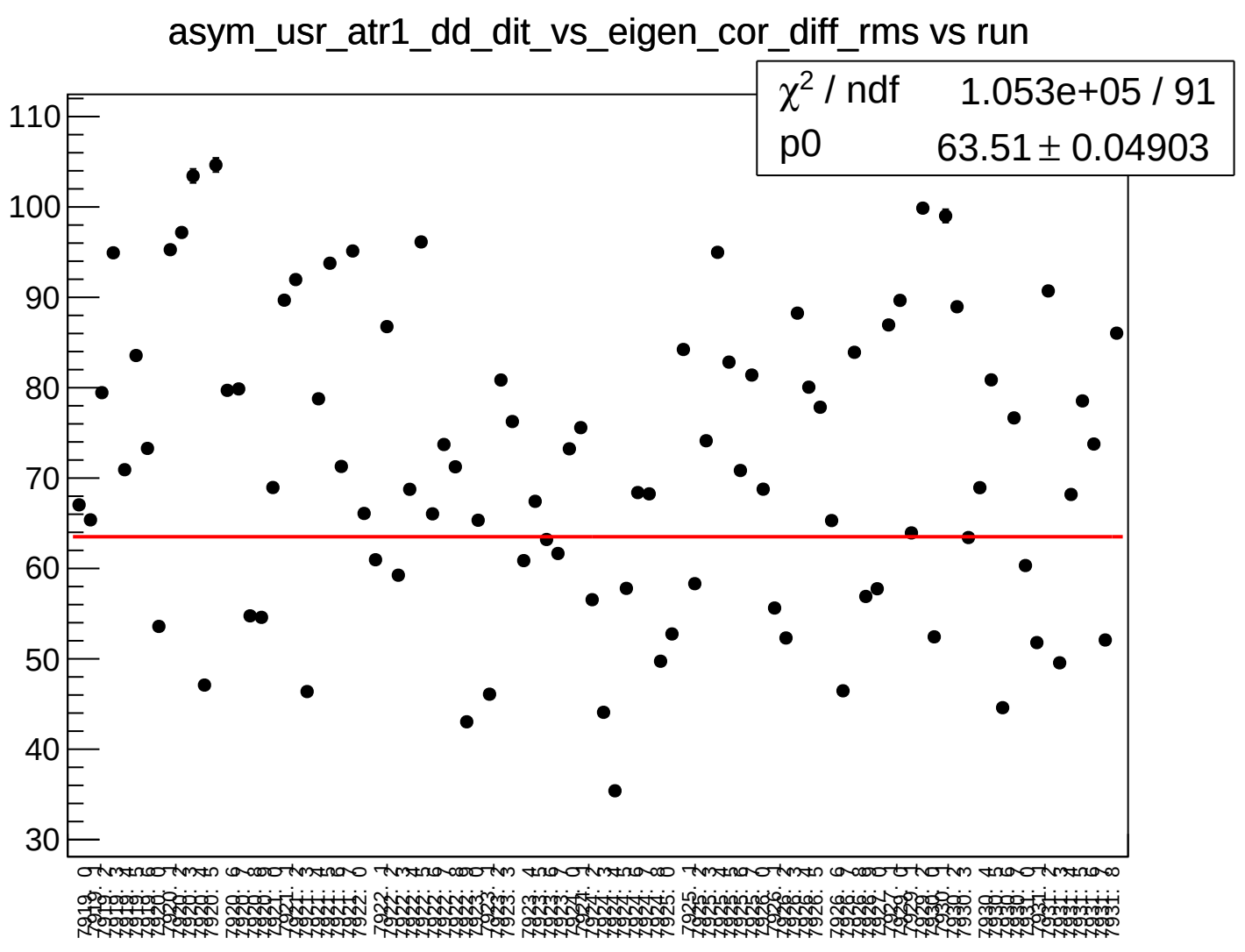

asym_usr_atr1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 82.38 / 91
p0 1.191e−13 ± 3.209e−13
pull
Entries 92
Mean 84.85
Std Dev 17.94
pull1D
Entries 92
Mean 0.03968
Std Dev 0.9454

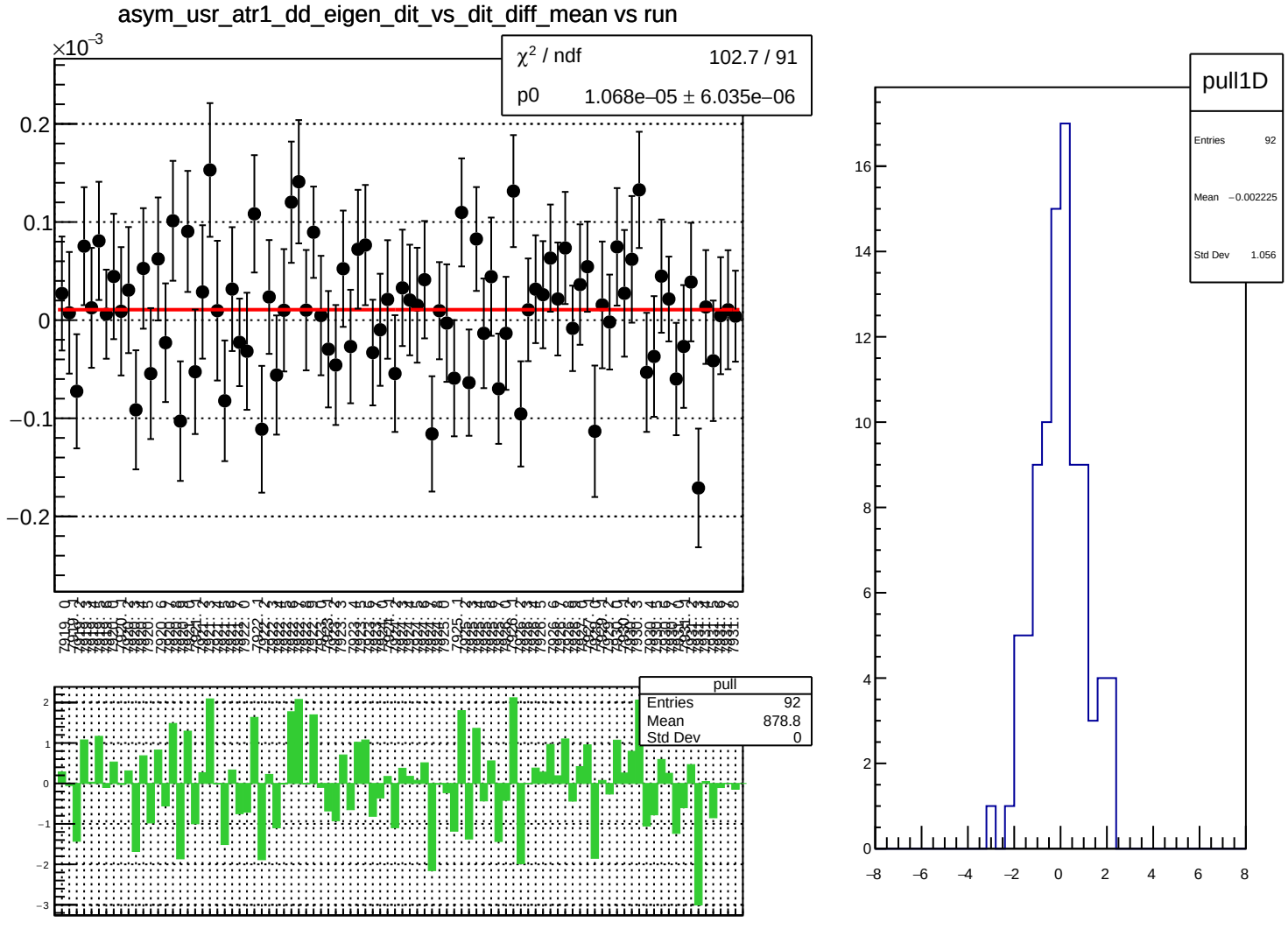

asym_usr_atr1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 6.726e+05 / 91
p0 2.391e−10 ± 2.269e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

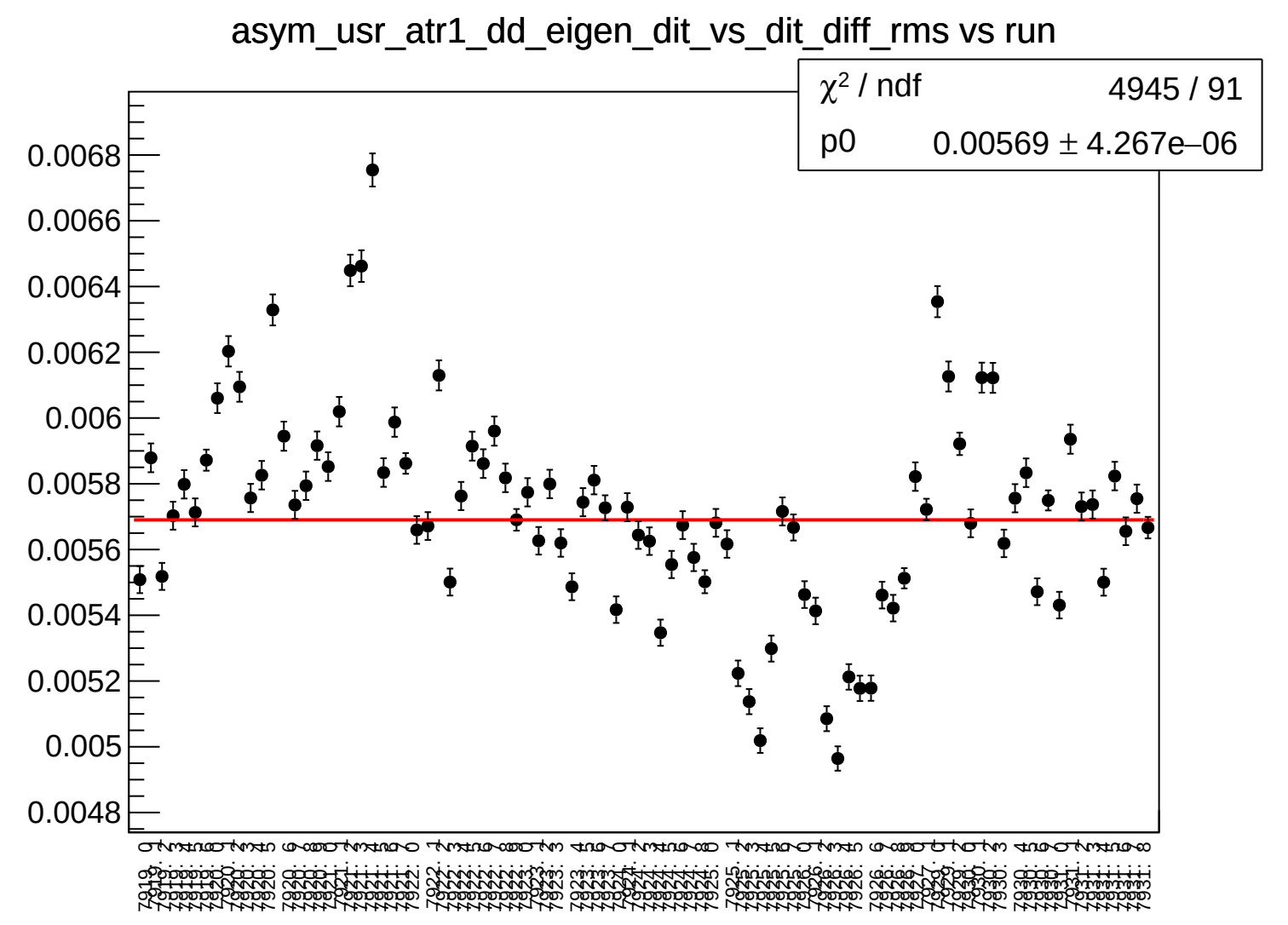

asym_usr_atr1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 82.07 / 91
p0 0.04686 ± 0.06935
pull
Entries 92
Mean 145
Std Dev 0
pull1D
Entries 92
Mean −0.01354
Std Dev 0.9444

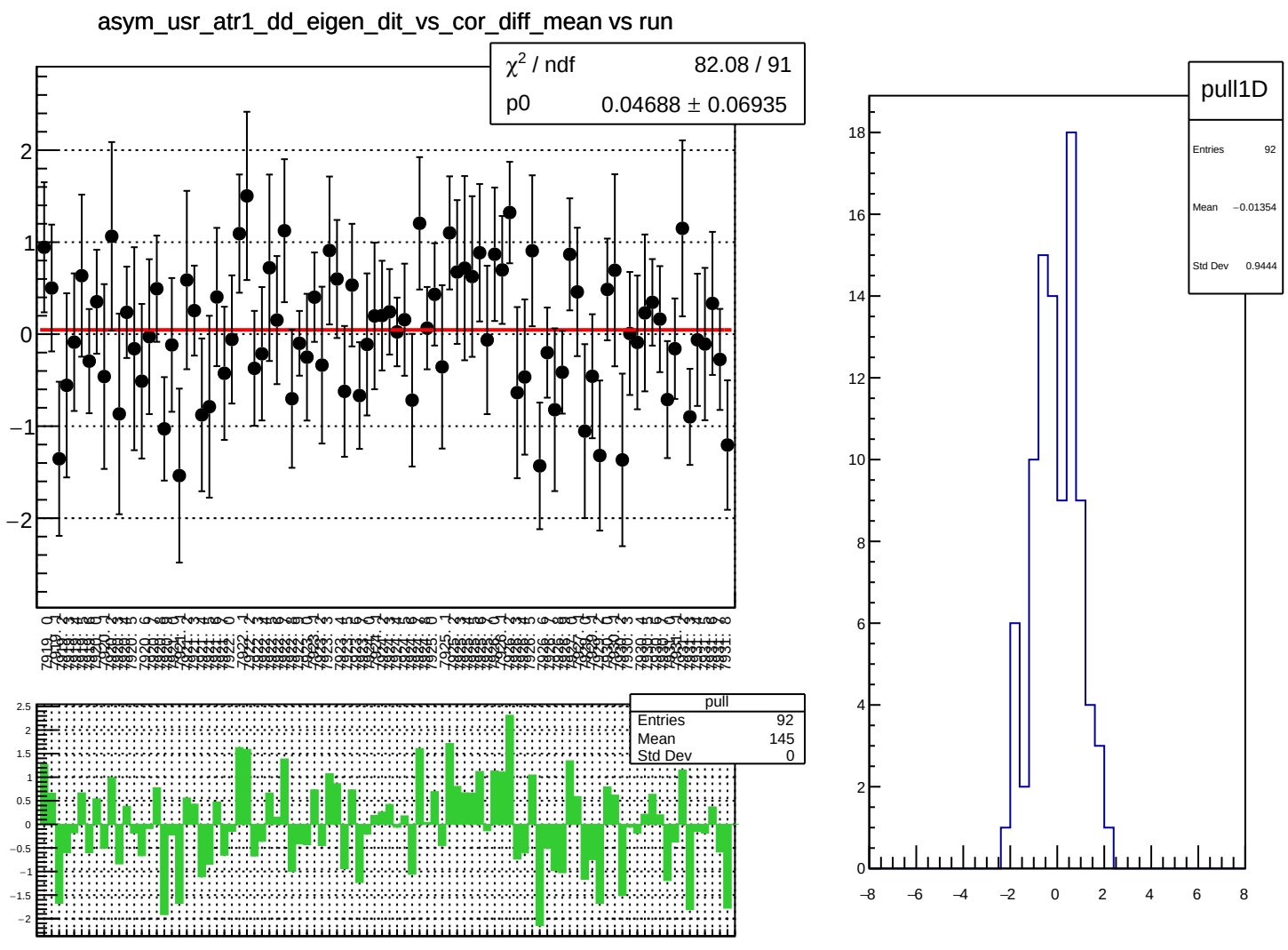

asym_usr_atr1_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.053e+05 / 91
p0 63.51 ± 0.04903
110
100
90
80
70
60
50
40
30

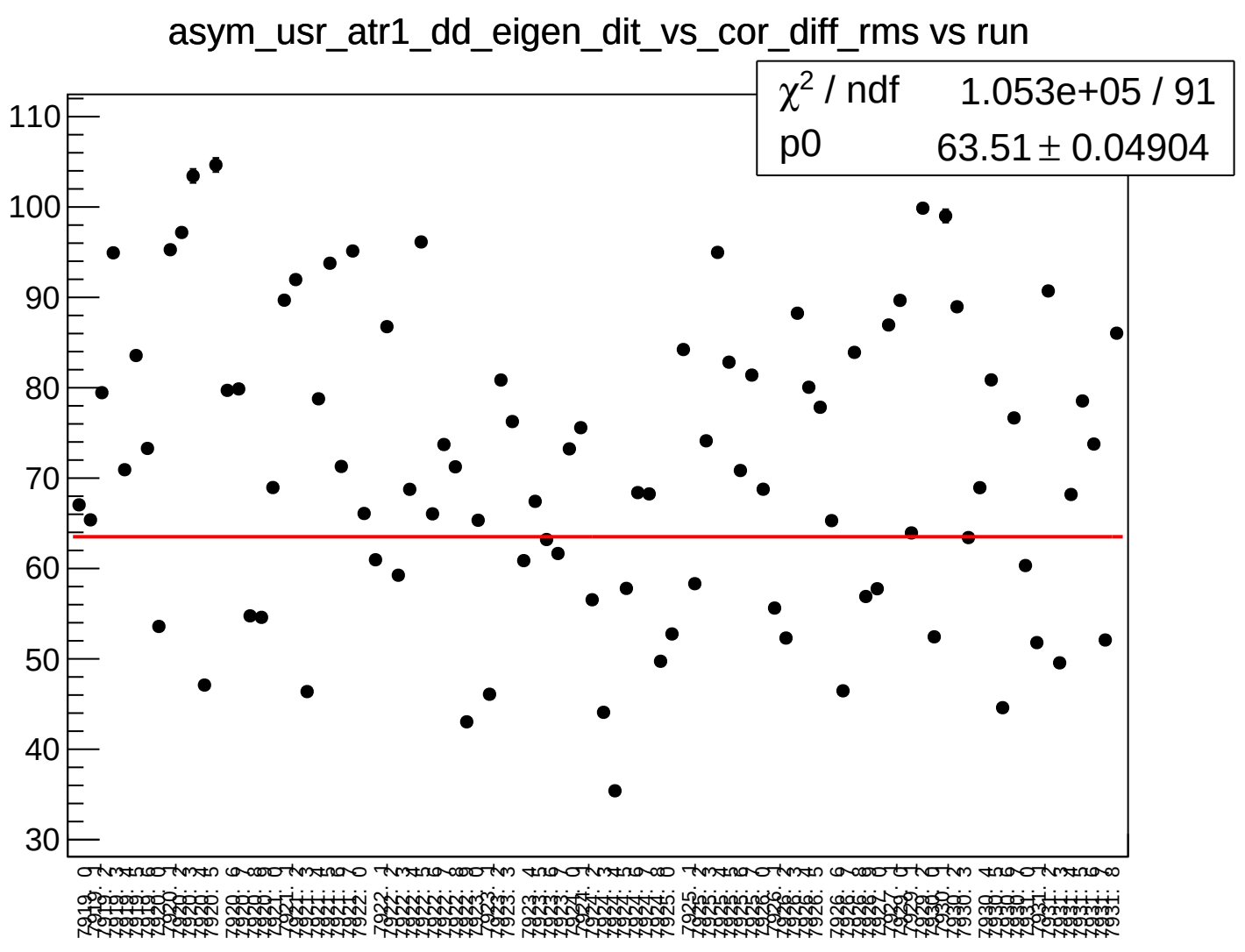

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.07 / 91
p0 0.04686 ± 0.06935
pull
Entries 92
Mean 145
Std Dev 0
pull1D
Entries 92
Mean −0.01354
Std Dev 0.9444

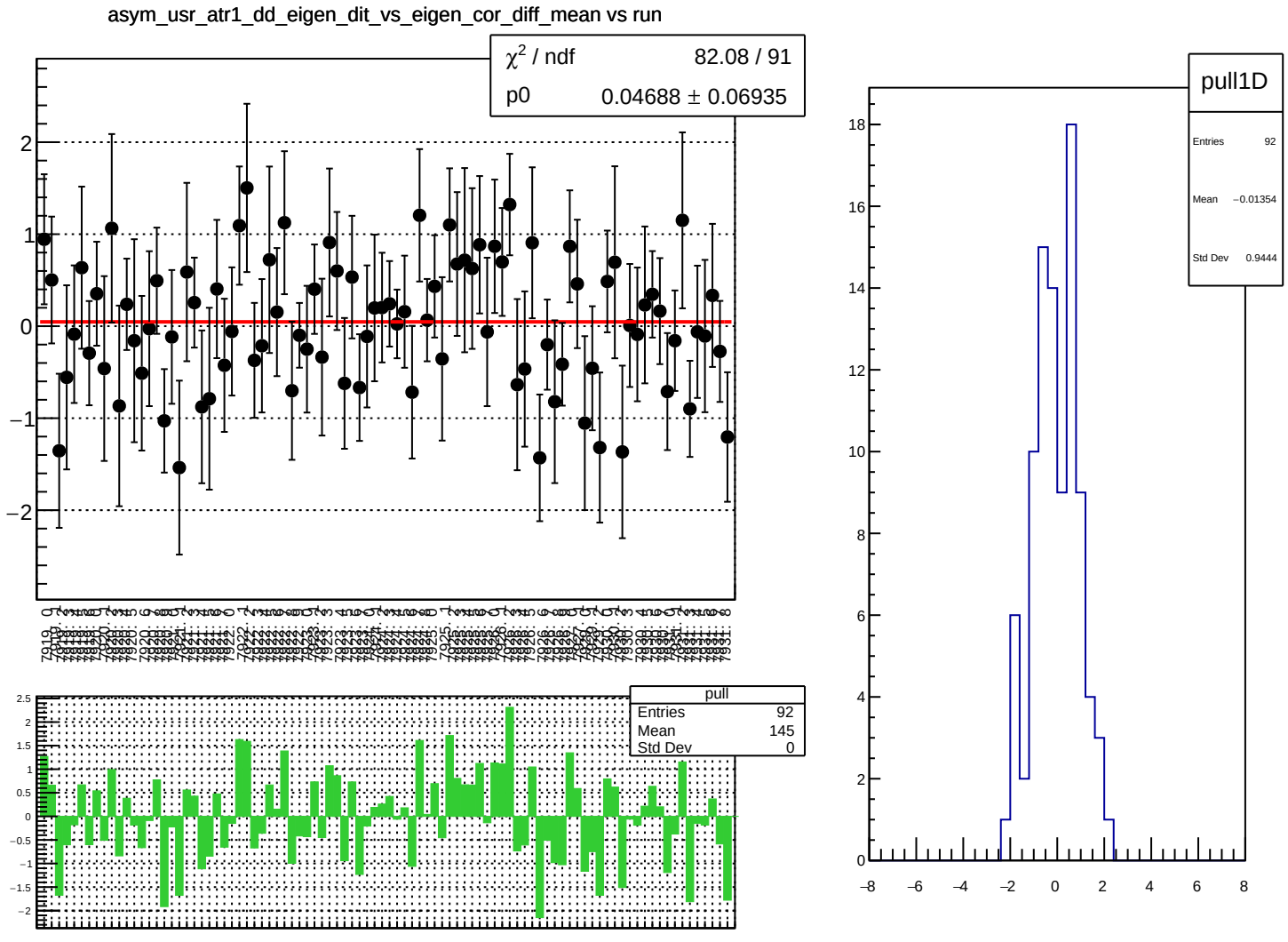

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.053e+05 / 91
p0 63.51 ± 0.04903
110
100
90
80
70
60
50
40
30

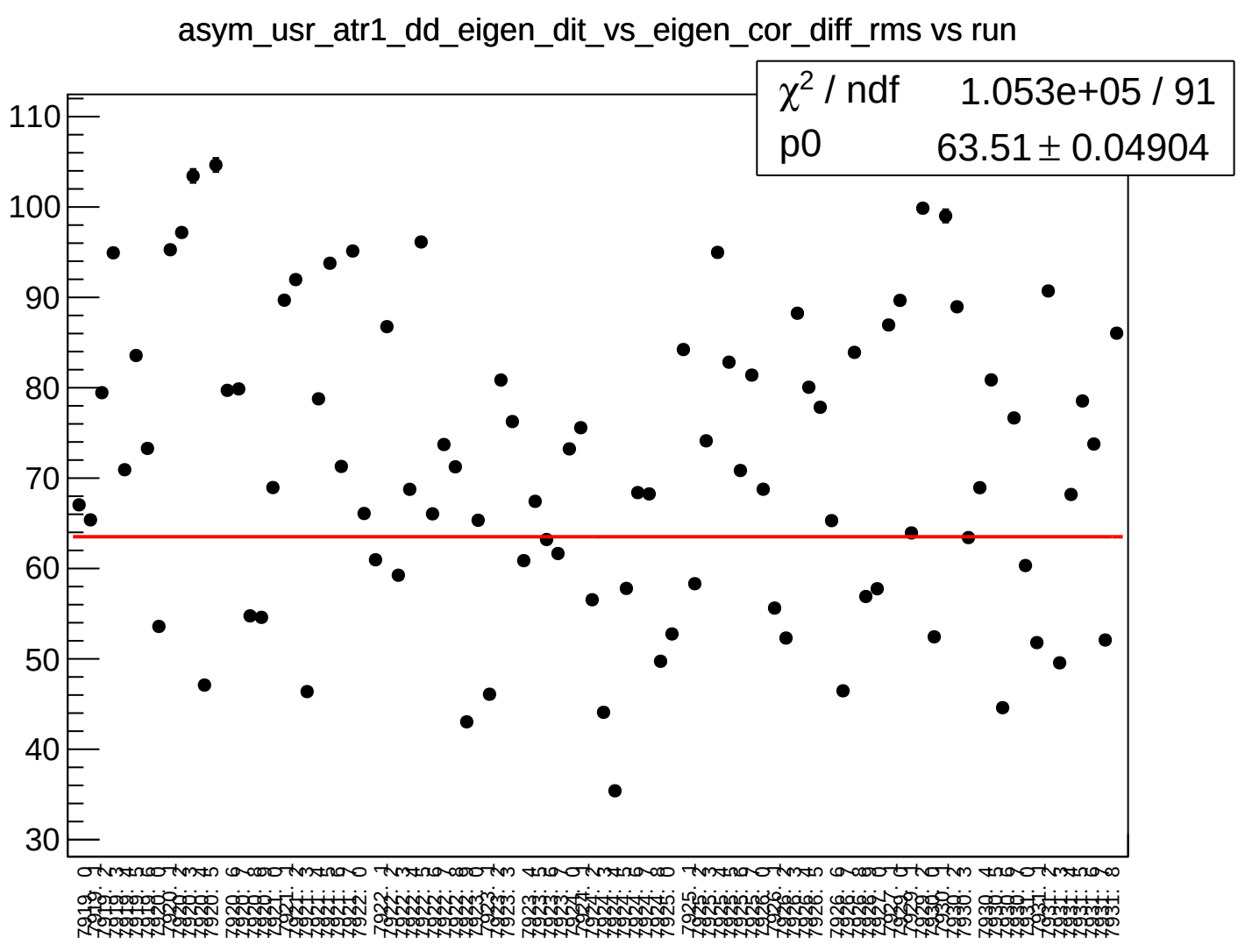

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 102.7 / 91
p0 1.068e−05 ± 6.035e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 92
Mean 878.8
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.002225
Std Dev 1.056
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

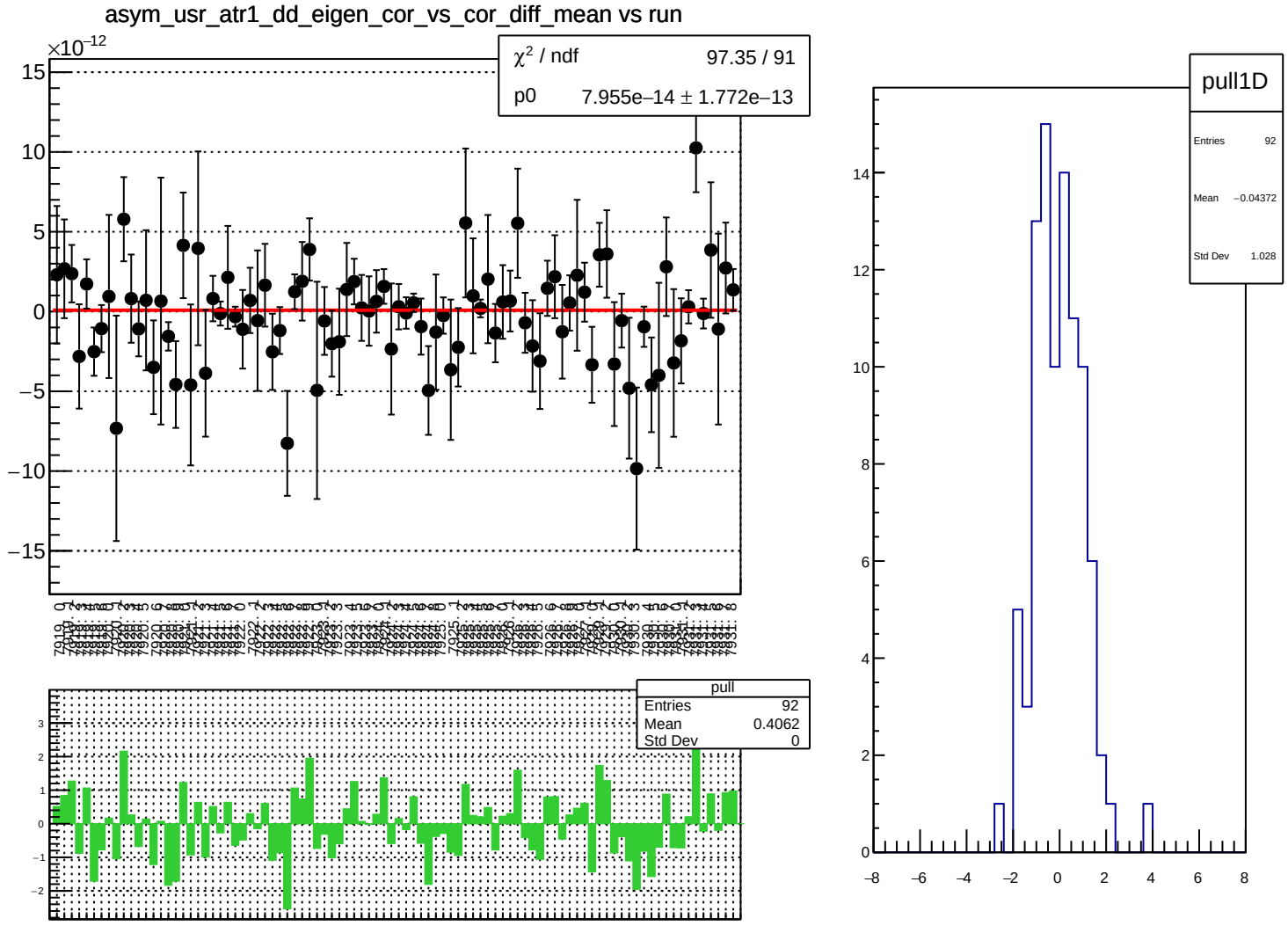

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4945 / 91
p0 0.00569 ± 4.267e–06
0.0068
0.0066
0.0064
0.0062
0.006
0.0058
0.0056
0.0054
0.0052
0.005
0.0048

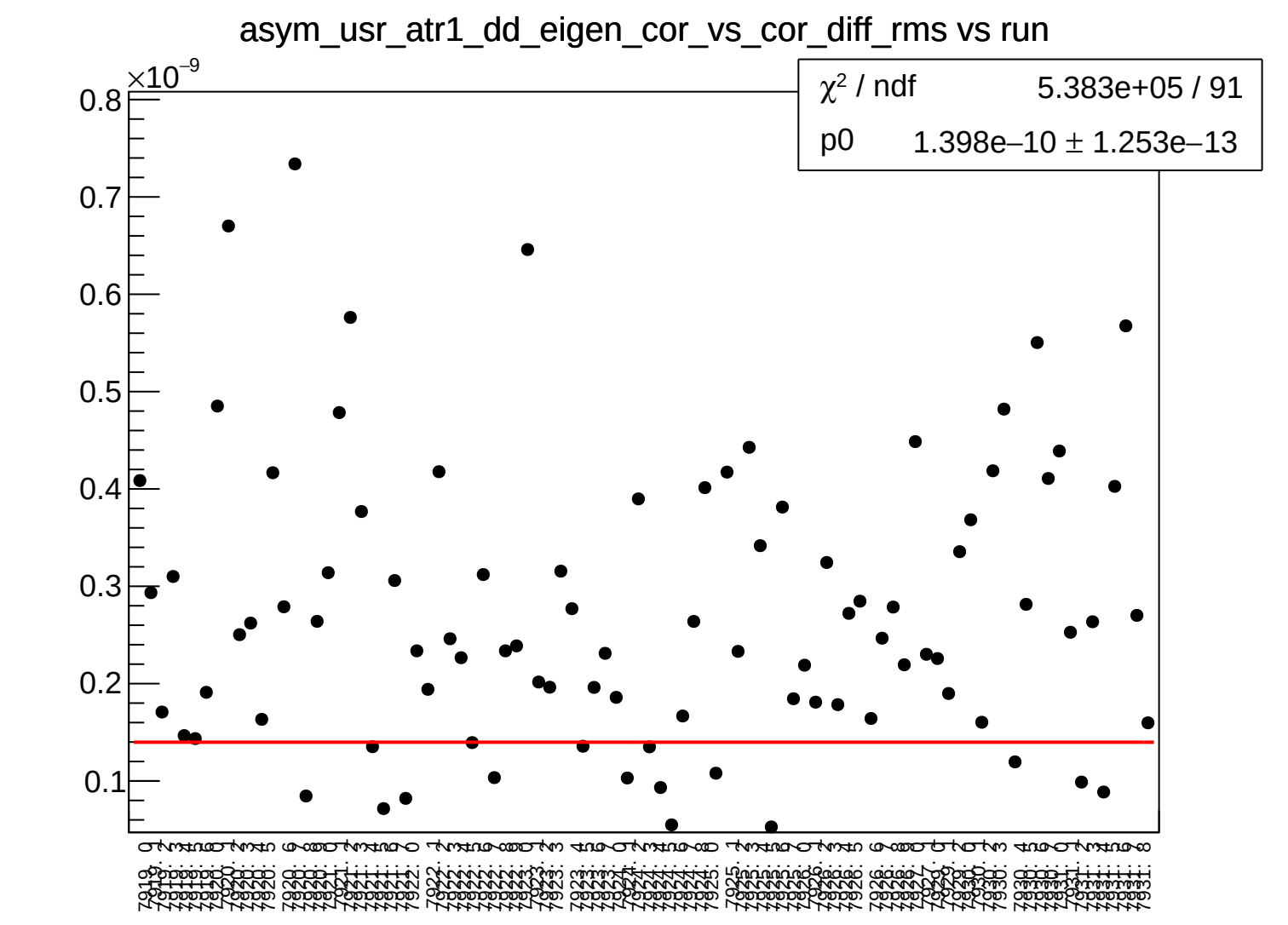

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.08 / 91
p0 0.04688 ± 0.06935
pull
Entries 92
Mean 145
Std Dev 0
pull1D
Entries 92
Mean −0.01354
Std Dev 0.9444

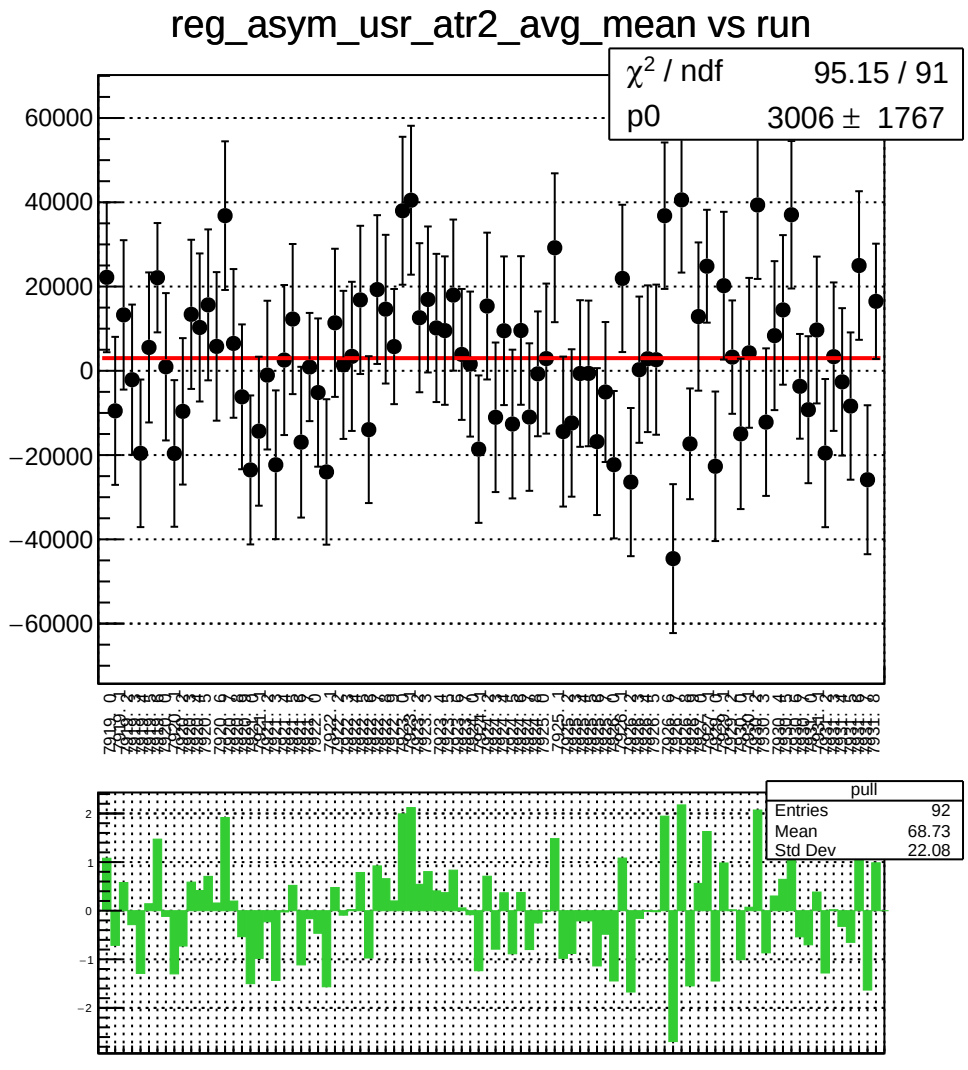

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.053e+05 / 91
p0 63.51 ± 0.04904
110
100
90
80
70
60
50
40
30

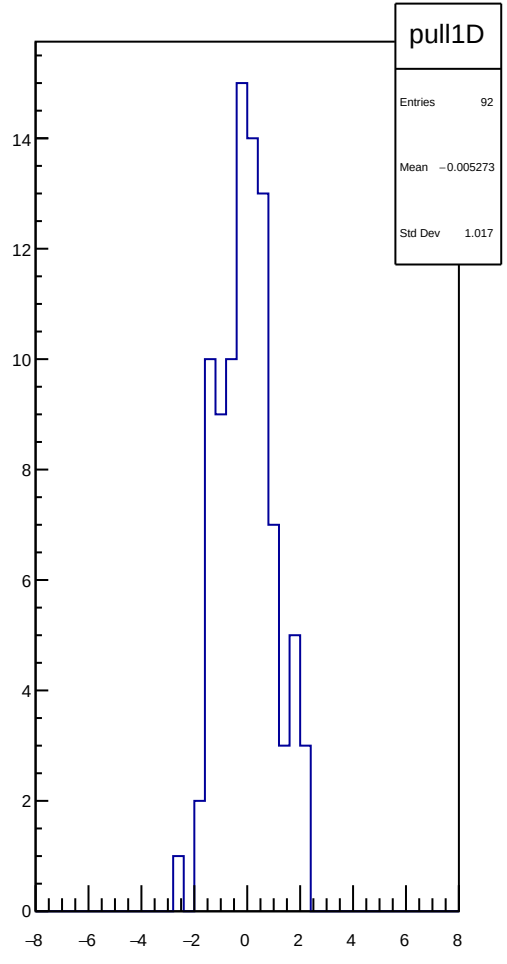

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.08 / 91
p0 0.04688 ± 0.06935
pull
Entries 92
Mean 145
Std Dev 0
pull1D
Entries 92
Mean −0.01354
Std Dev 0.9444

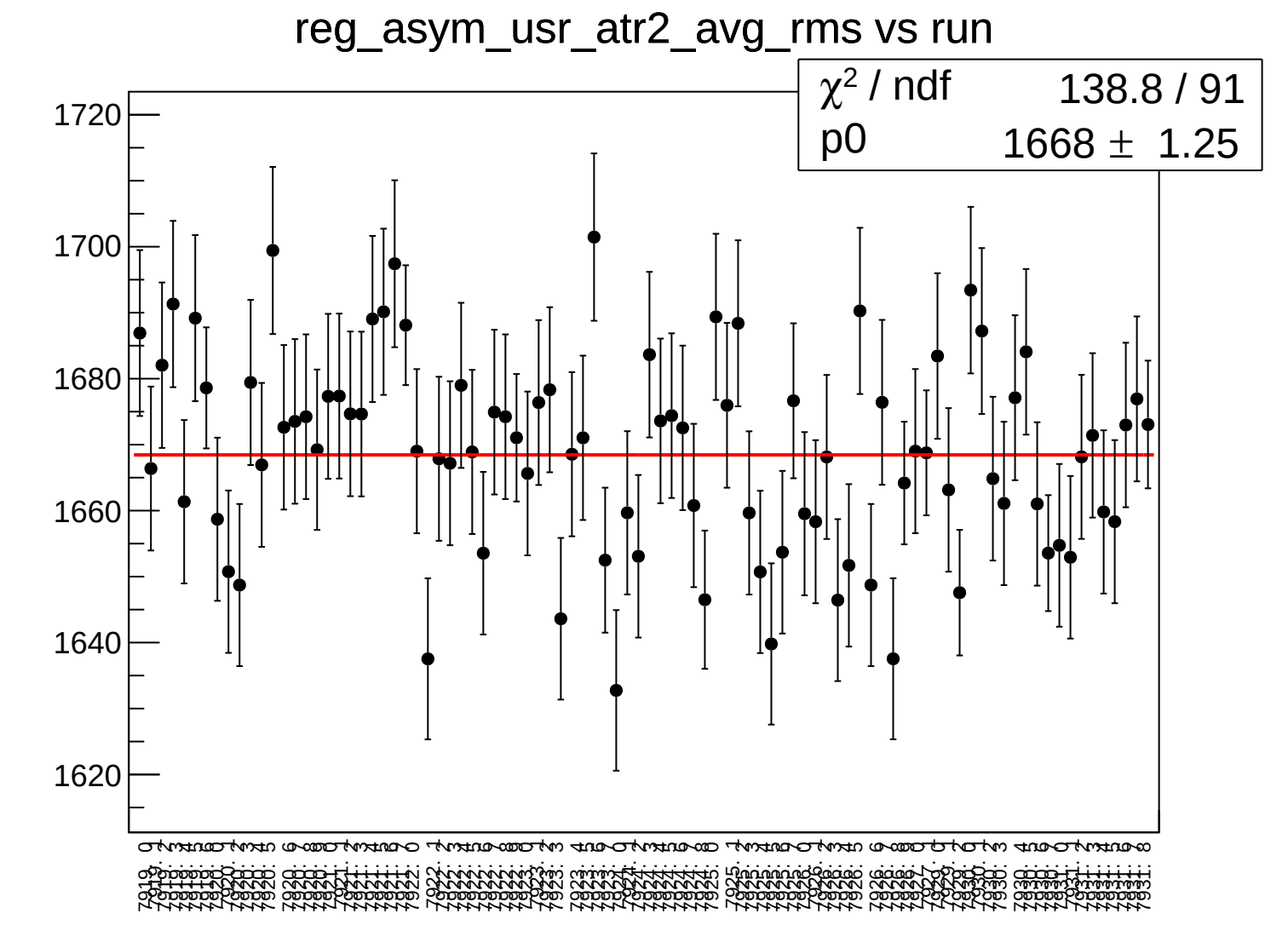

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.053e+05 / 91
p0 63.51 ± 0.04904
110
100
90
80
70
60
50
40
30

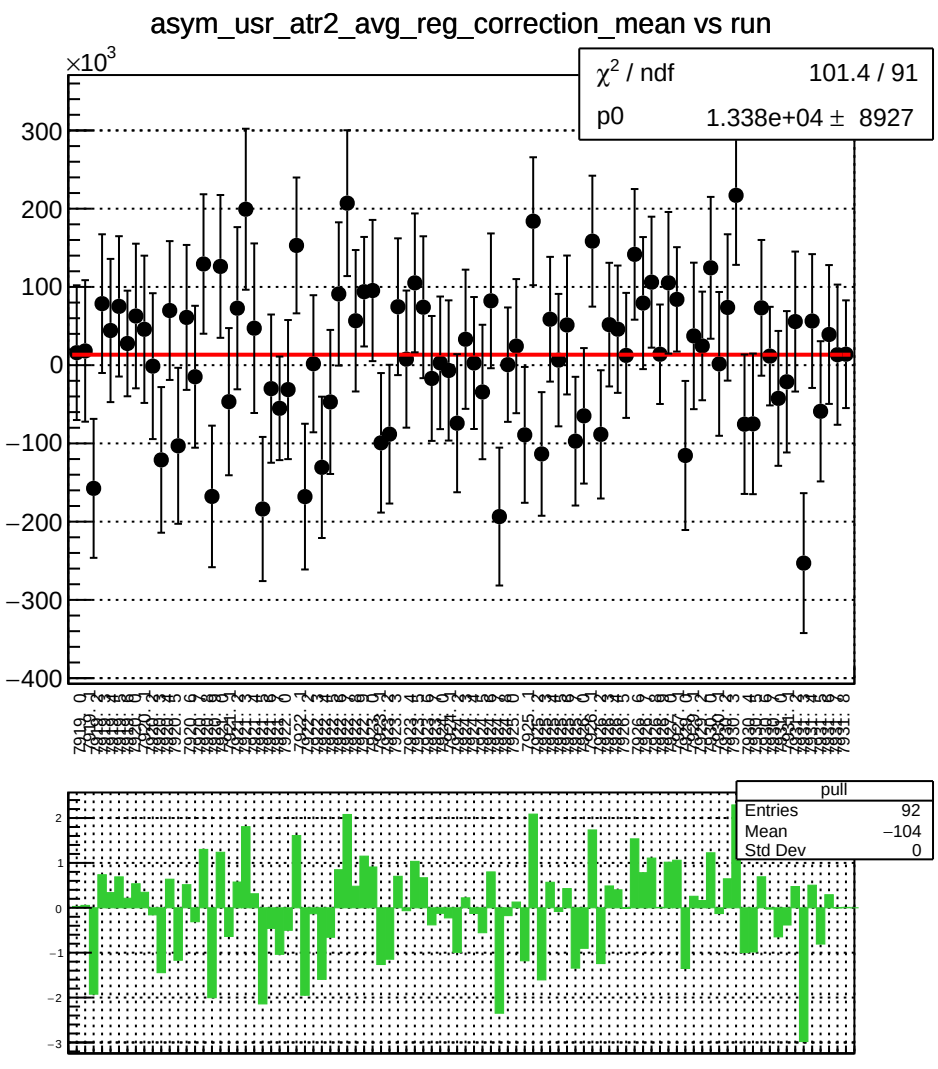

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97.35 / 91
p0 7.955e−14 ± 1.772e−13
pull
Entries 92
Mean 0.4062
Std Dev 0
pull1D
Entries 92
Mean −0.04372
Std Dev 1.028

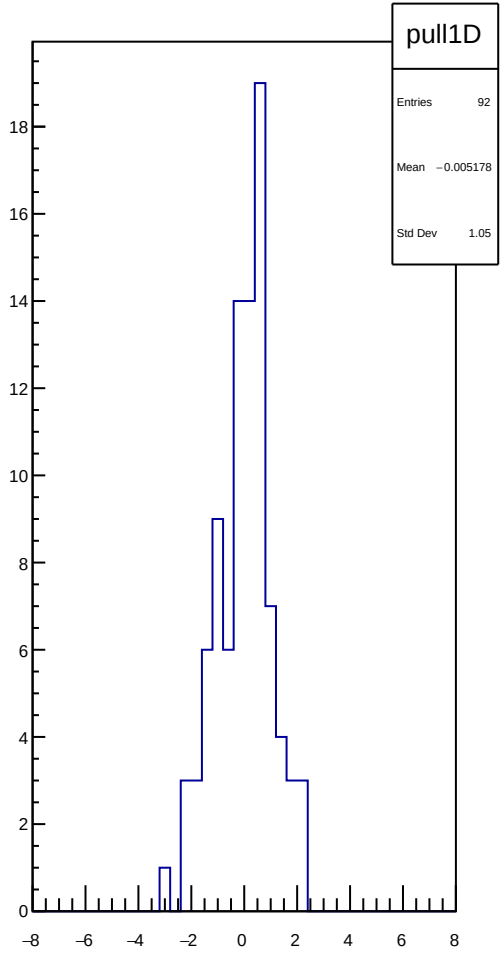

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
χ² / ndf 5.383e+05 / 91
p0 1.398e−10 ± 1.253e−13

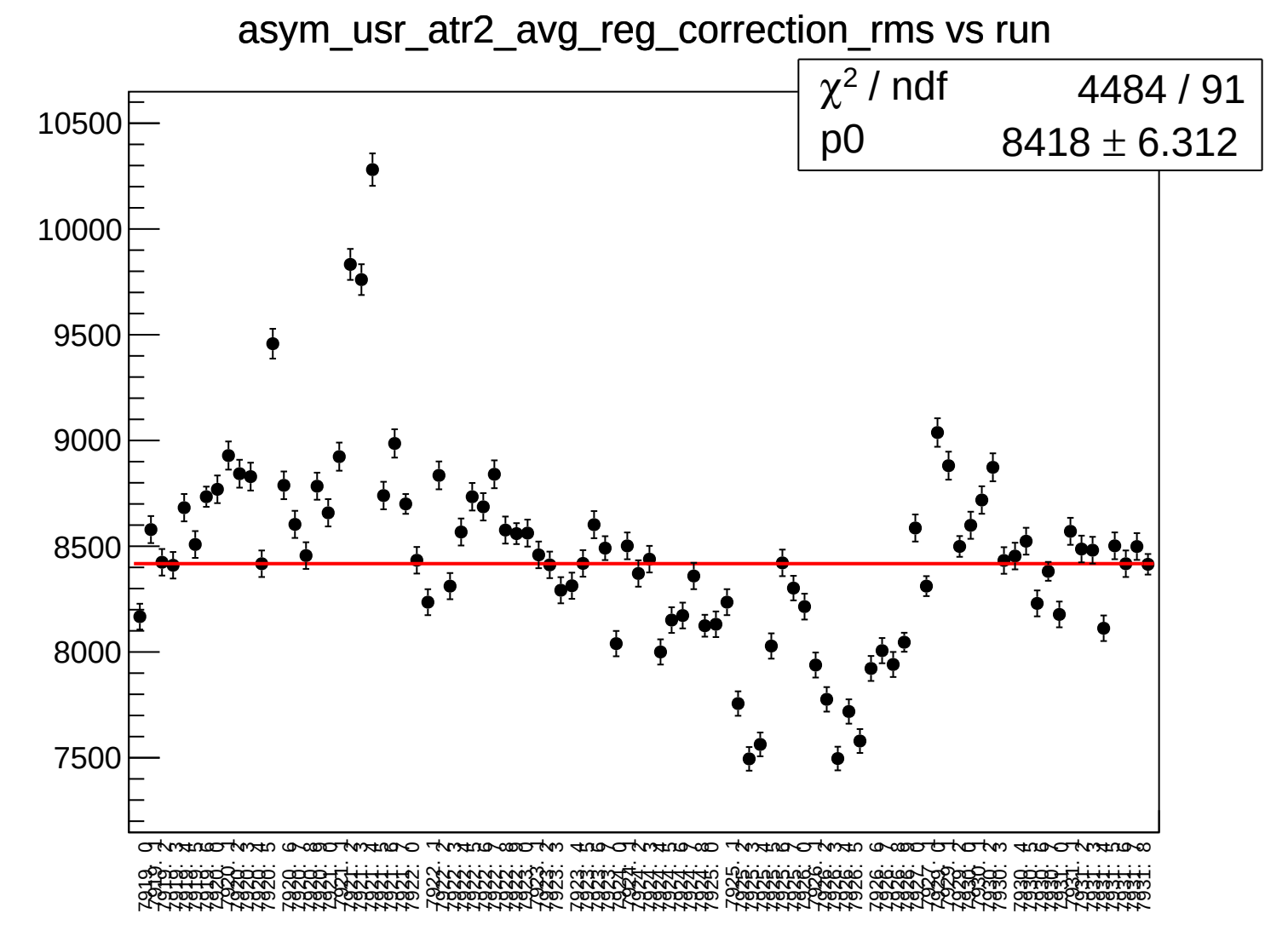

reg_asym_usr_atr2_avg_mean vs run
χ² / ndf 95.15 / 91
p0 3006 ± 1767
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 68.73
Std Dev 22.08
2
1
0
−1
−2

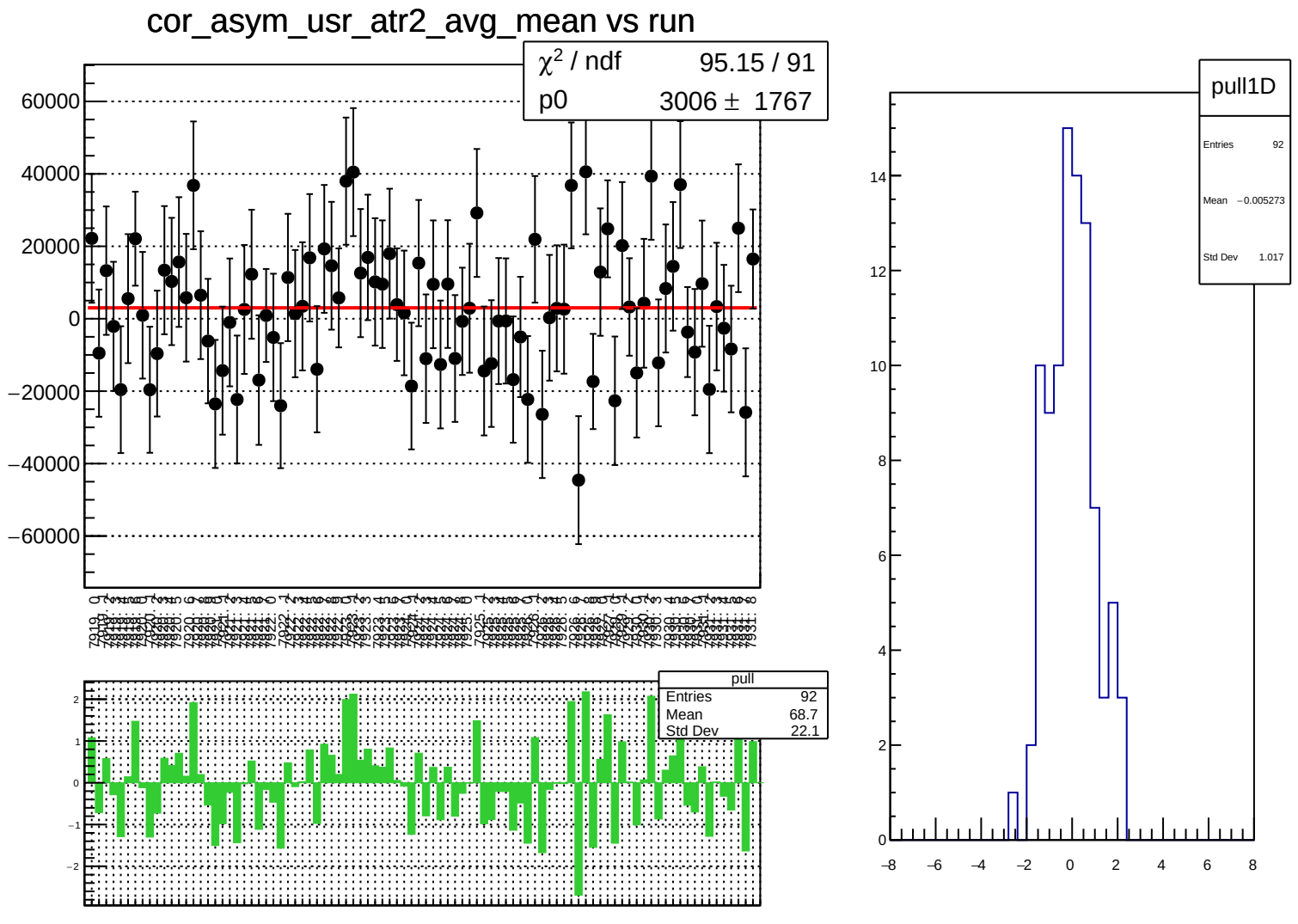

pull1D
Entries 92
Mean −0.005273
Std Dev 1.017
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

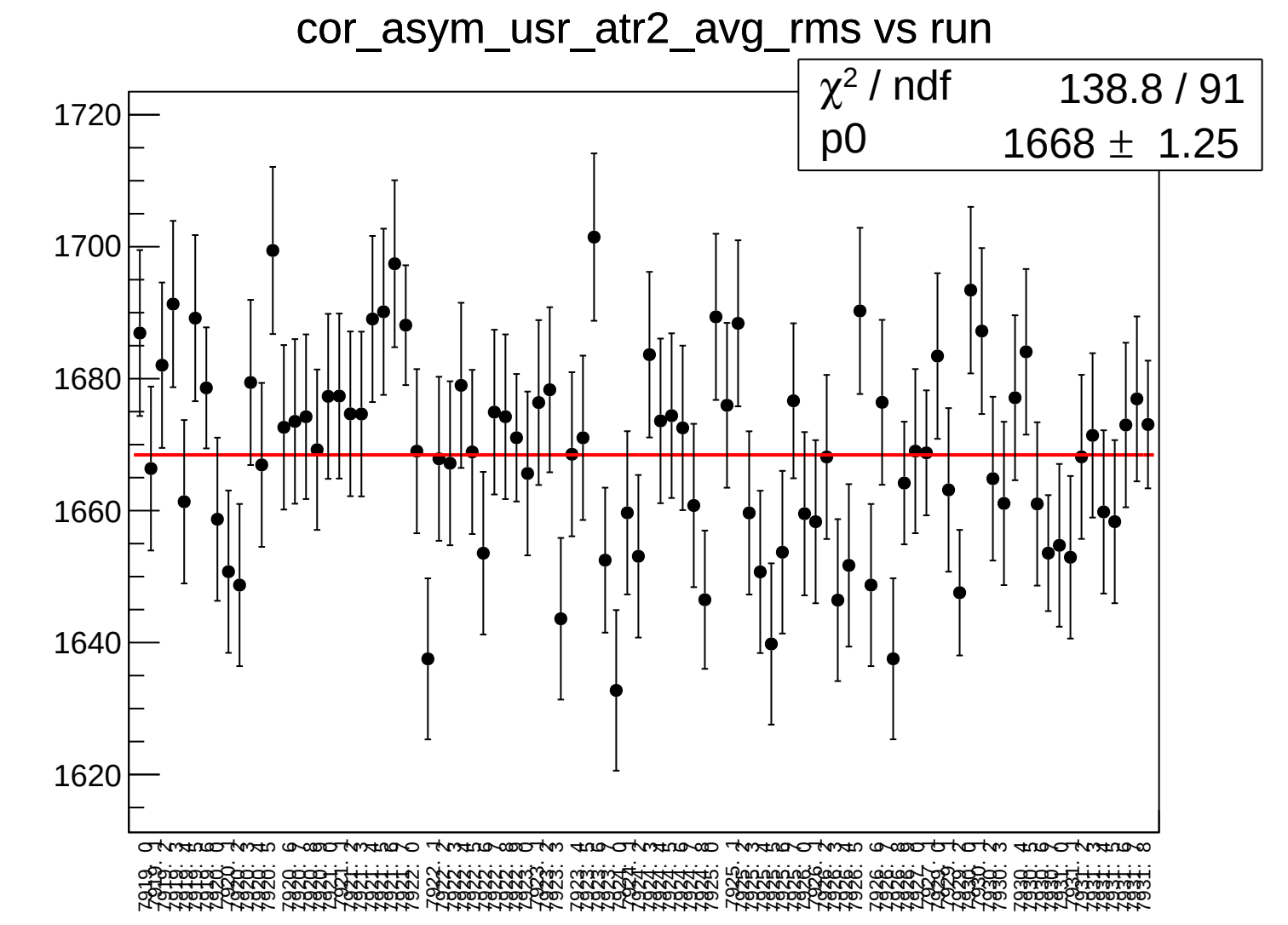

reg_asym_usr_atr2_avg_rms vs run
χ² / ndf 138.8 / 91
p0 1668 ± 1.25
1720
1700
1680
1660
1640
1620

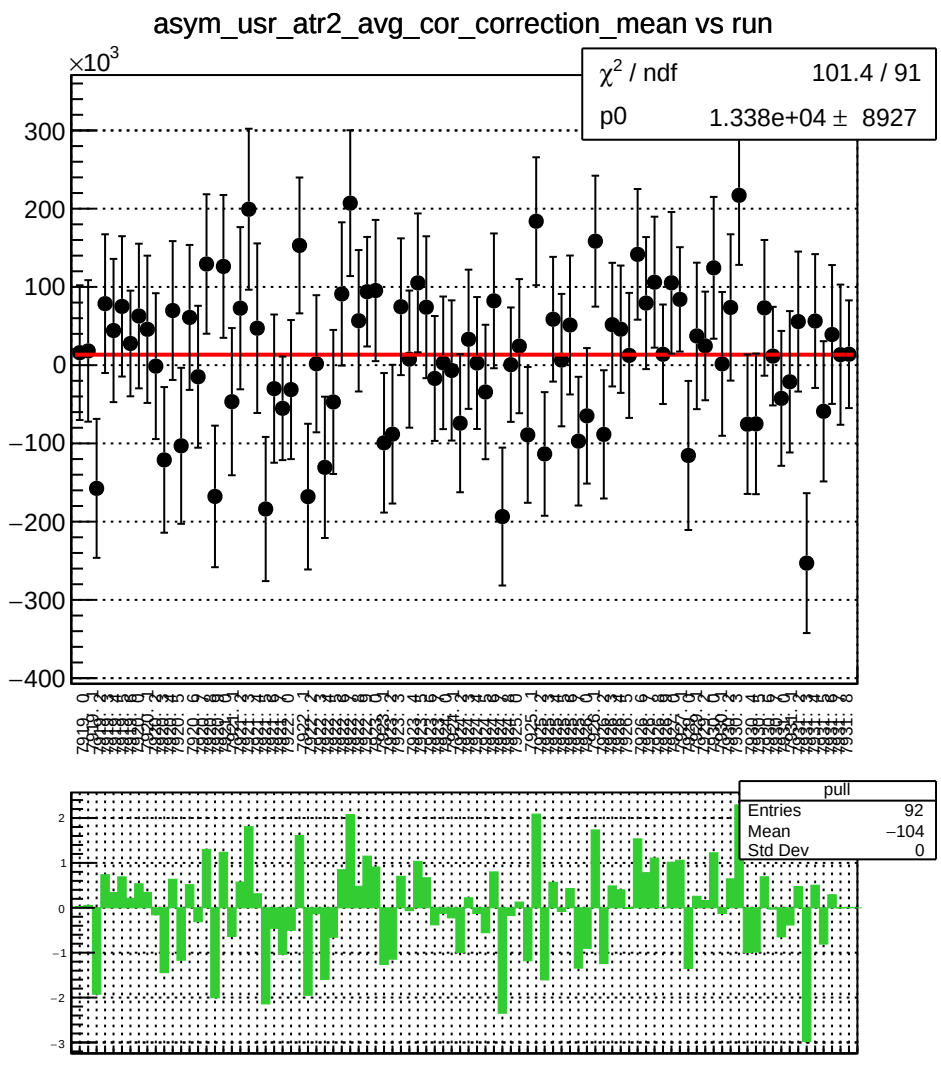

asym_usr_atr2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 101.4 / 91
p0 1.338e+04 ± 8927
300
200
100
0
−100
−200
−300
−400
pull
Entries 92
Mean −104
Std Dev 0
2
1
0
−1
−2
−3

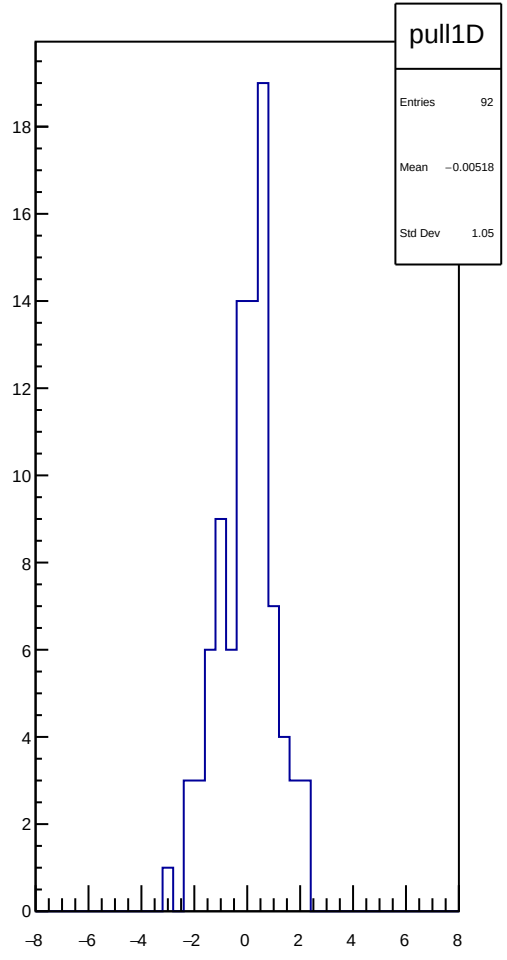

pull1D
Entries 92
Mean −0.005178
Std Dev 1.05
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

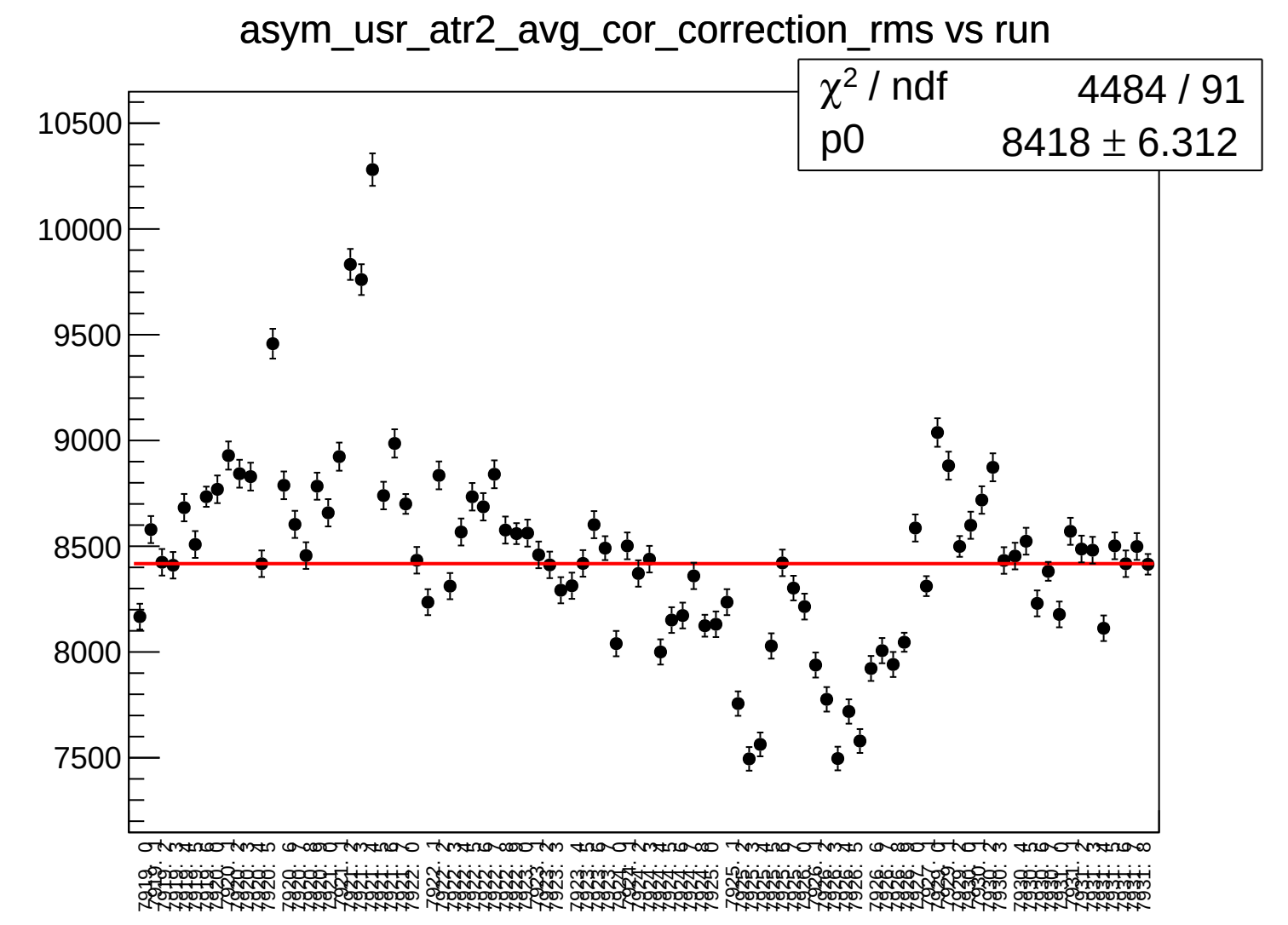

asym_usr_atr2_avg_reg_correction_rms vs run
χ² / ndf 4484 / 91
p0 8418 ± 6.312
10500
10000
9500
9000
8500
8000
7500

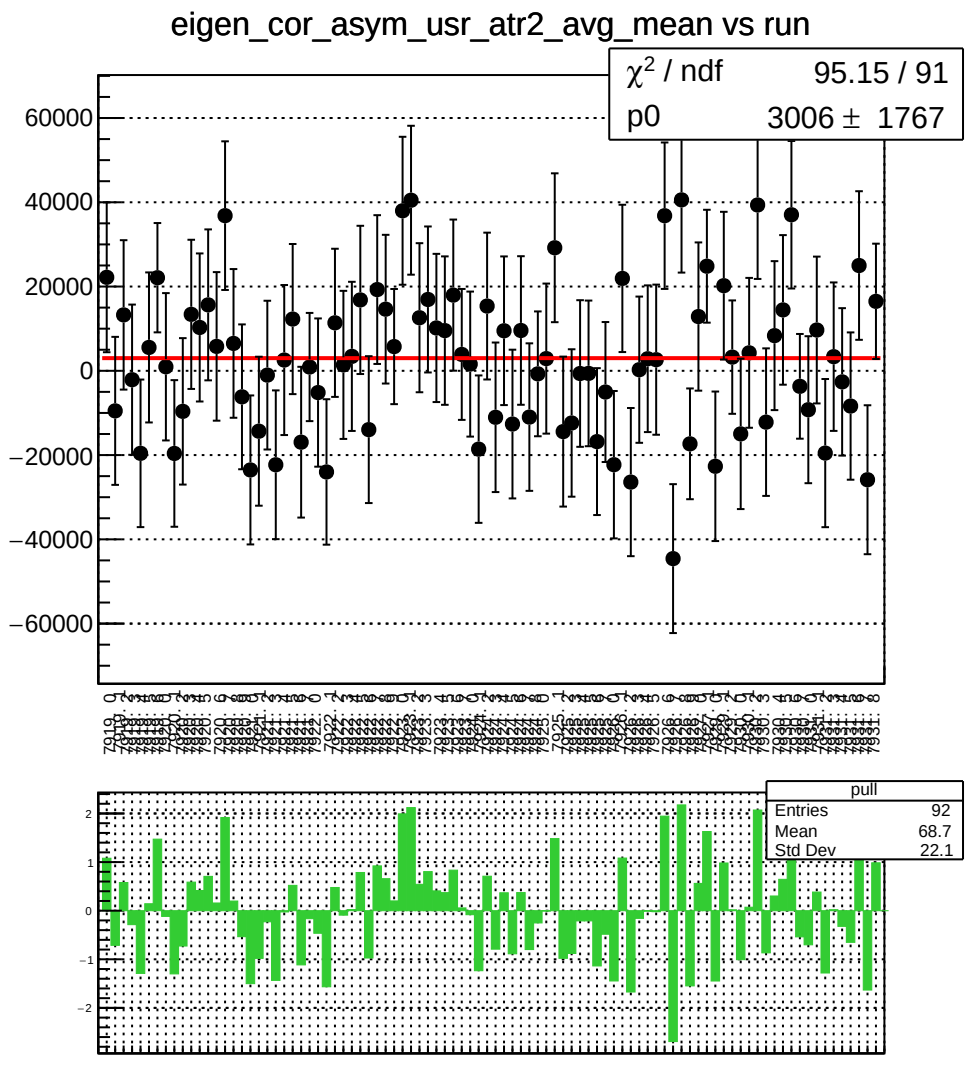

cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 95.15 / 91
p0 3006 ± 1767
pull
Entries 92
Mean 68.7
Std Dev 22.1
pull1D
Entries 92
Mean −0.005273
Std Dev 1.017

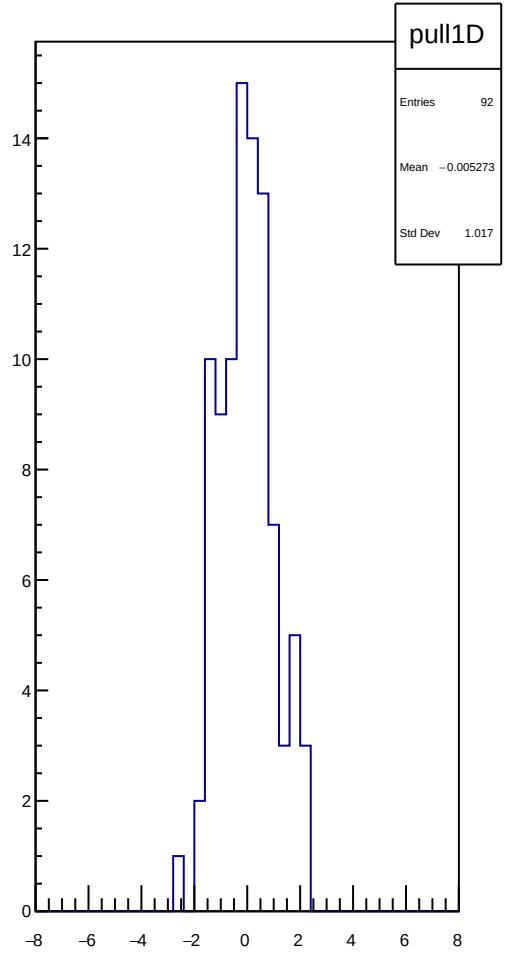

cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 138.8 / 91
p0 1668 ± 1.25
1720
1700
1680
1660
1640
1620

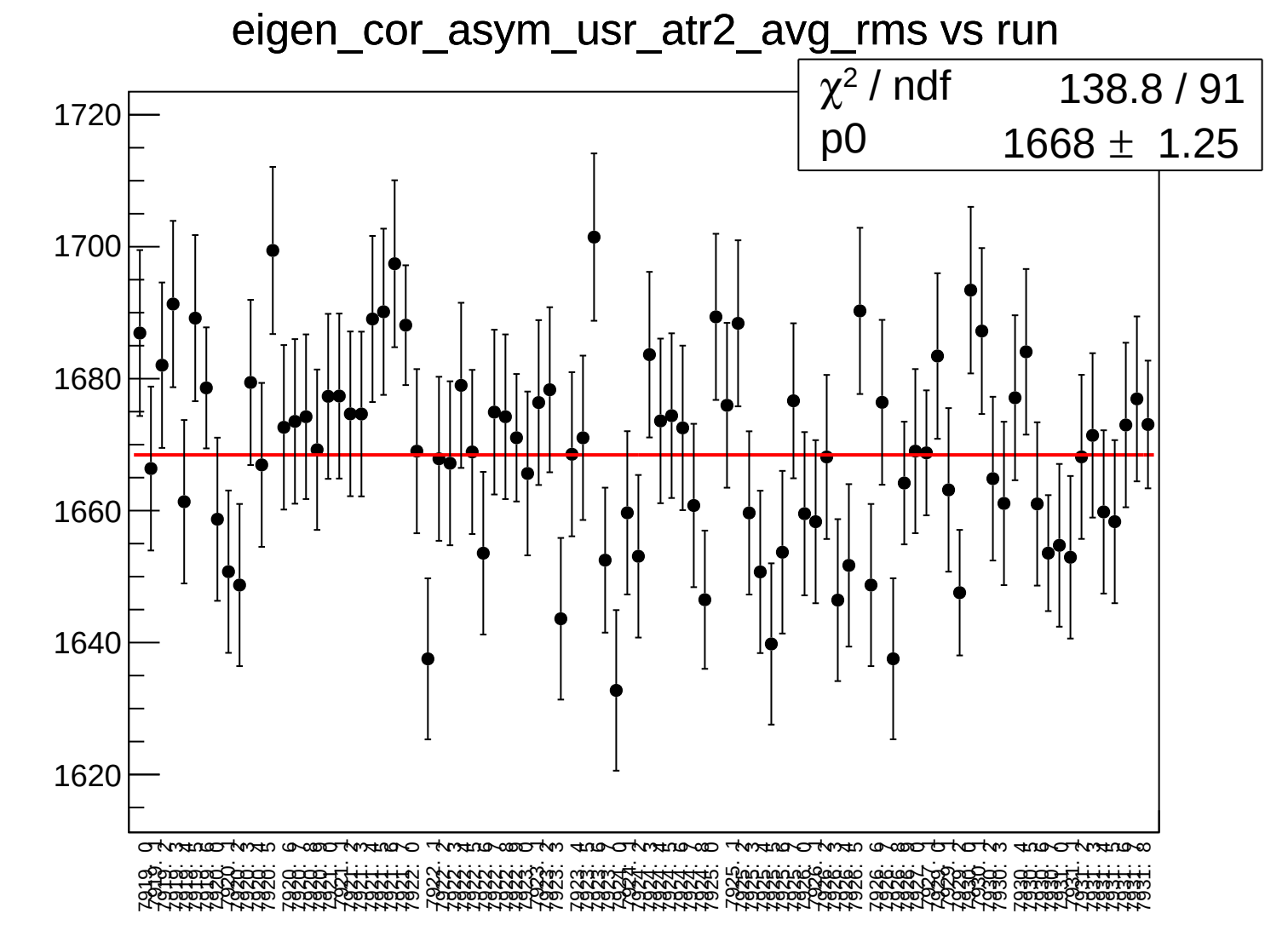

asym_usr_atr2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 101.4 / 91
p0 1.338e+04 ± 8927
pull
Entries 92
Mean −104
Std Dev 0

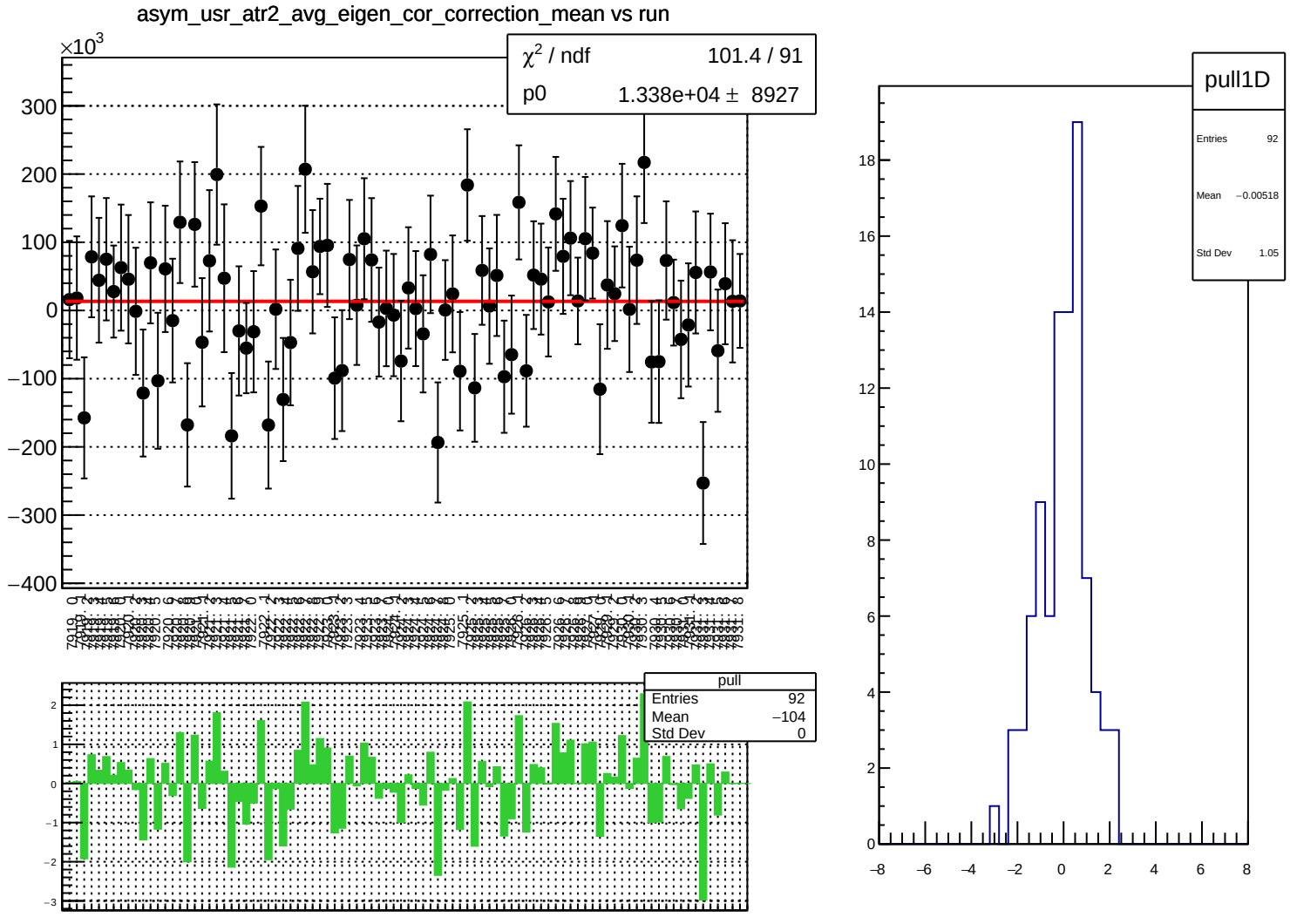

pull1D
Entries 92
Mean −0.00518
Std Dev 1.05

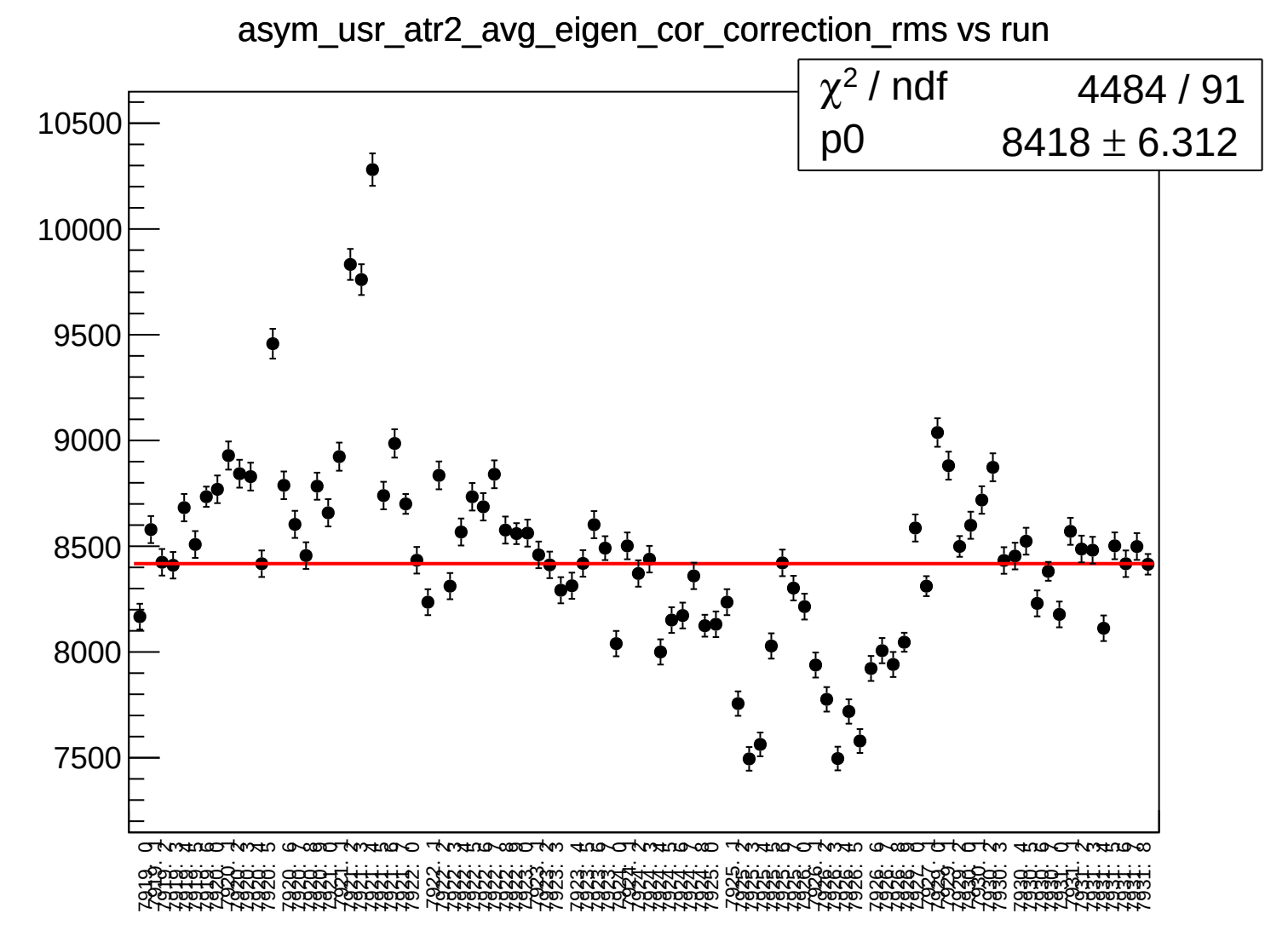

asym_usr_atr2_avg_cor_correction_rms vs run
χ^2 / ndf 4484 / 91
p0 8418 ± 6.312
10500
10000
9500
9000
8500
8000
7500

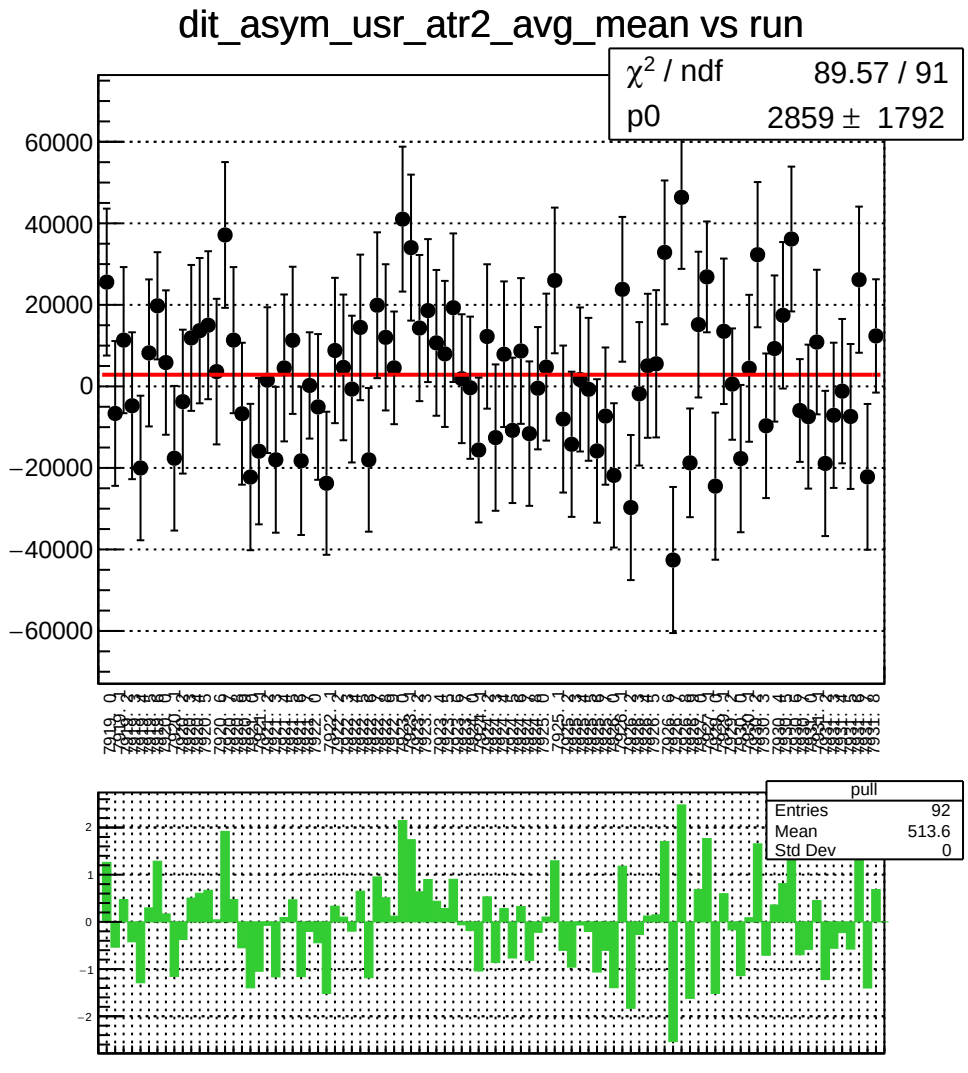

eigen_cor_asym_usr_atr2_avg_mean vs run
χ^2 / ndf 95.15 / 91
p0 3006 ± 1767
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 68.7
Std Dev 22.1
2
1
0
−1
−2

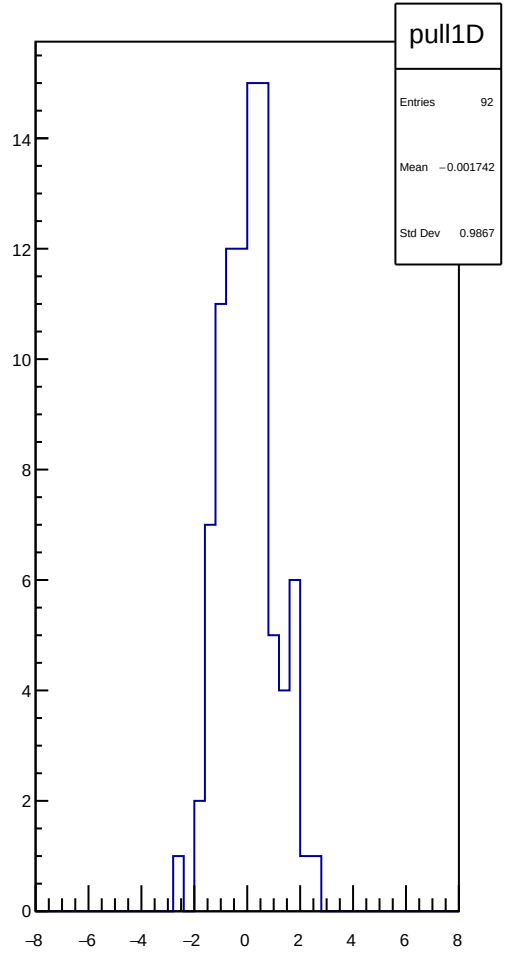

pull1D
Entries 92
Mean −0.005273
Std Dev 1.017
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

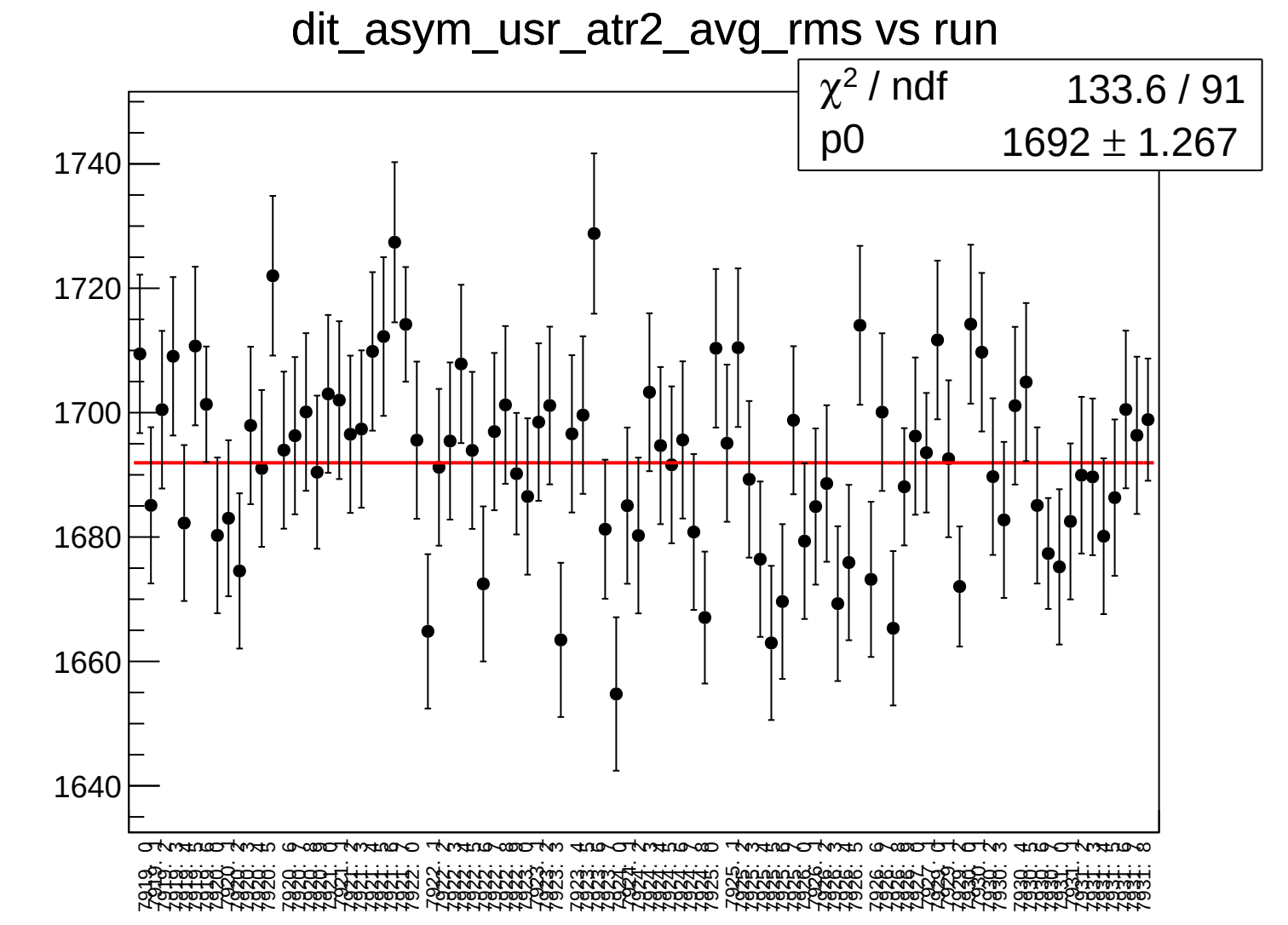

eigen_cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 138.8 / 91
p0 1668 ± 1.25
1720
1700
1680
1660
1640
1620

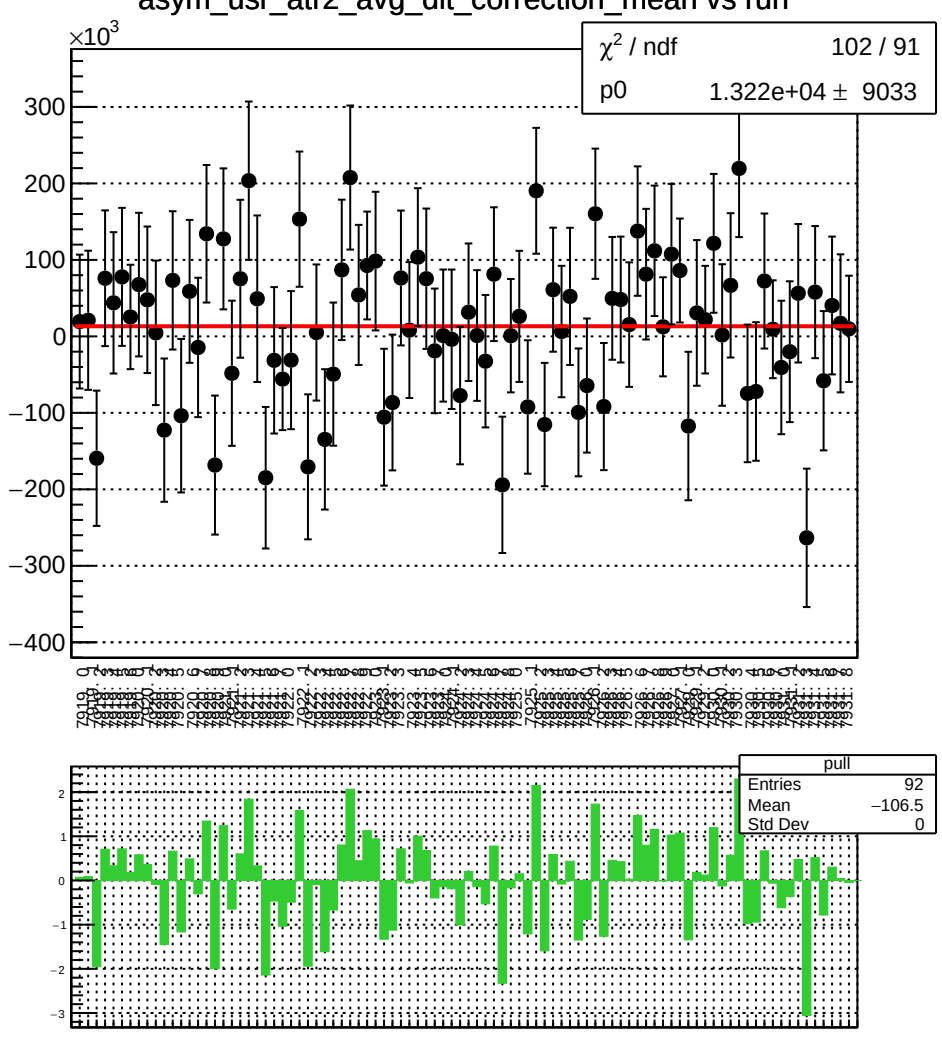

asym_usr_atr2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 101.4 / 91
p0 1.338e+04 ± 8927
pull
Entries 92
Mean −104
Std Dev 0
pull1D
Entries 92
Mean −0.00518
Std Dev 1.05

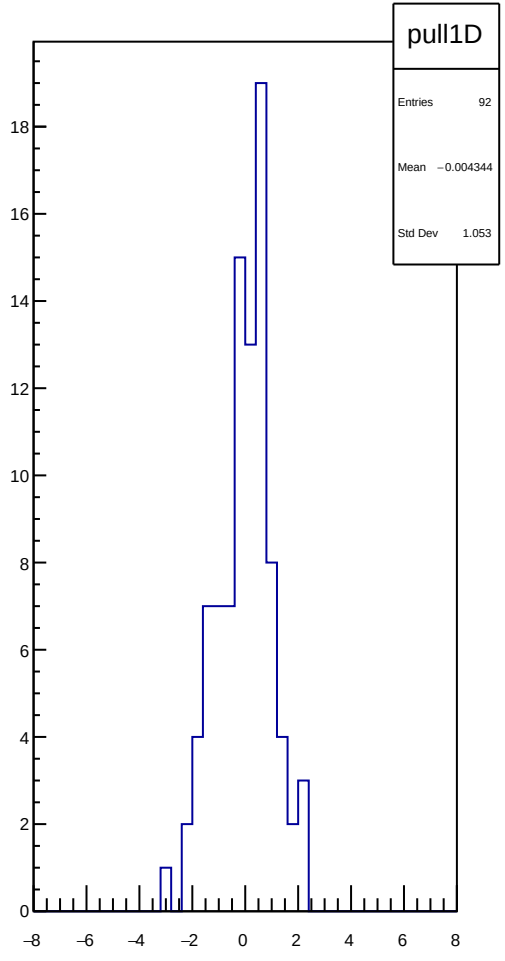

asym_usr_atr2_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 4484 / 91
p0 8418 ± 6.312
10500
10000
9500
9000
8500
8000
7500

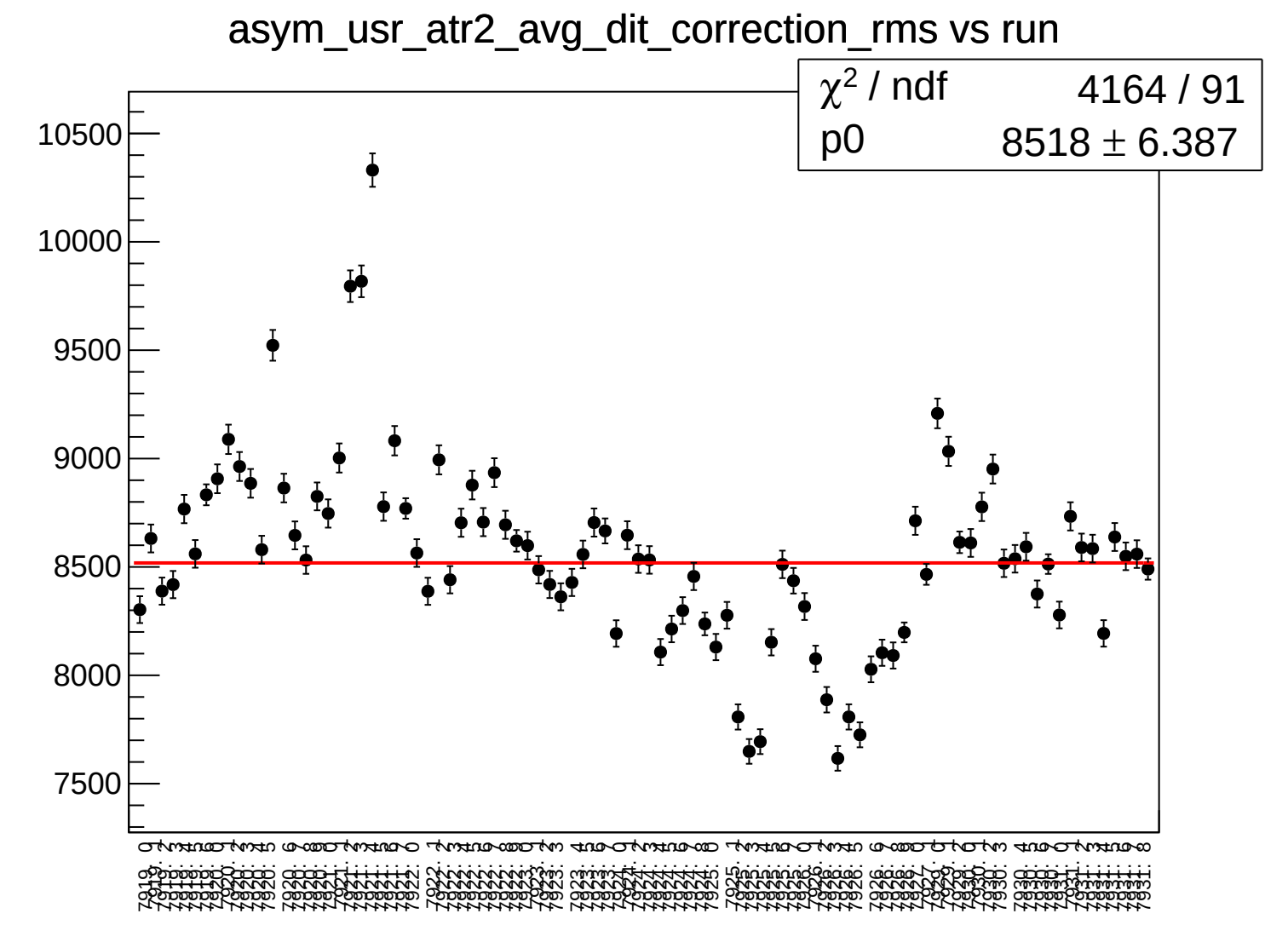

dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 89.57 / 91
p0 2859 ± 1792
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 513.6
Std Dev 0
2
1
0
−1
−2

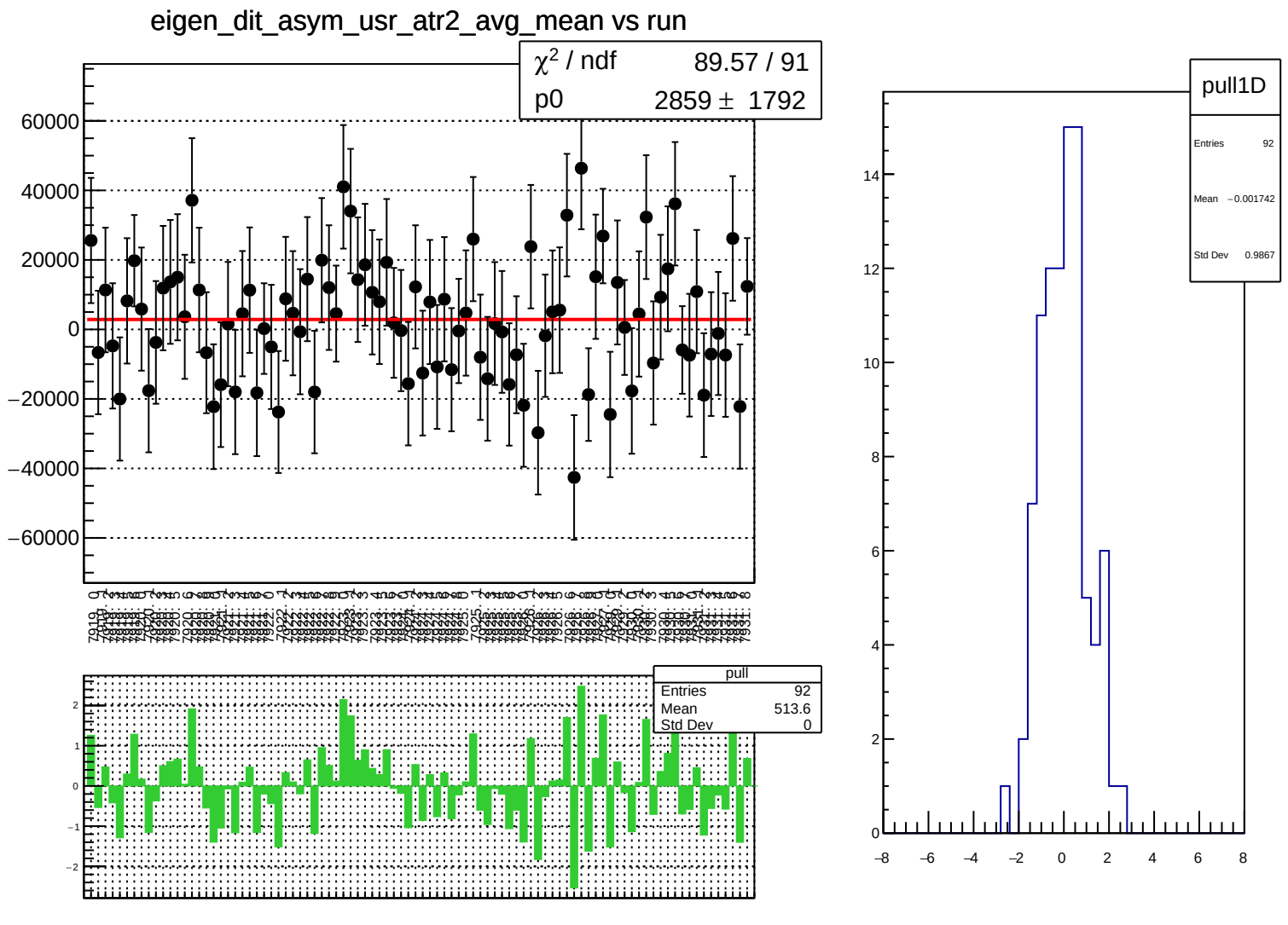

pull1D
Entries 92
Mean −0.001742
Std Dev 0.9867
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

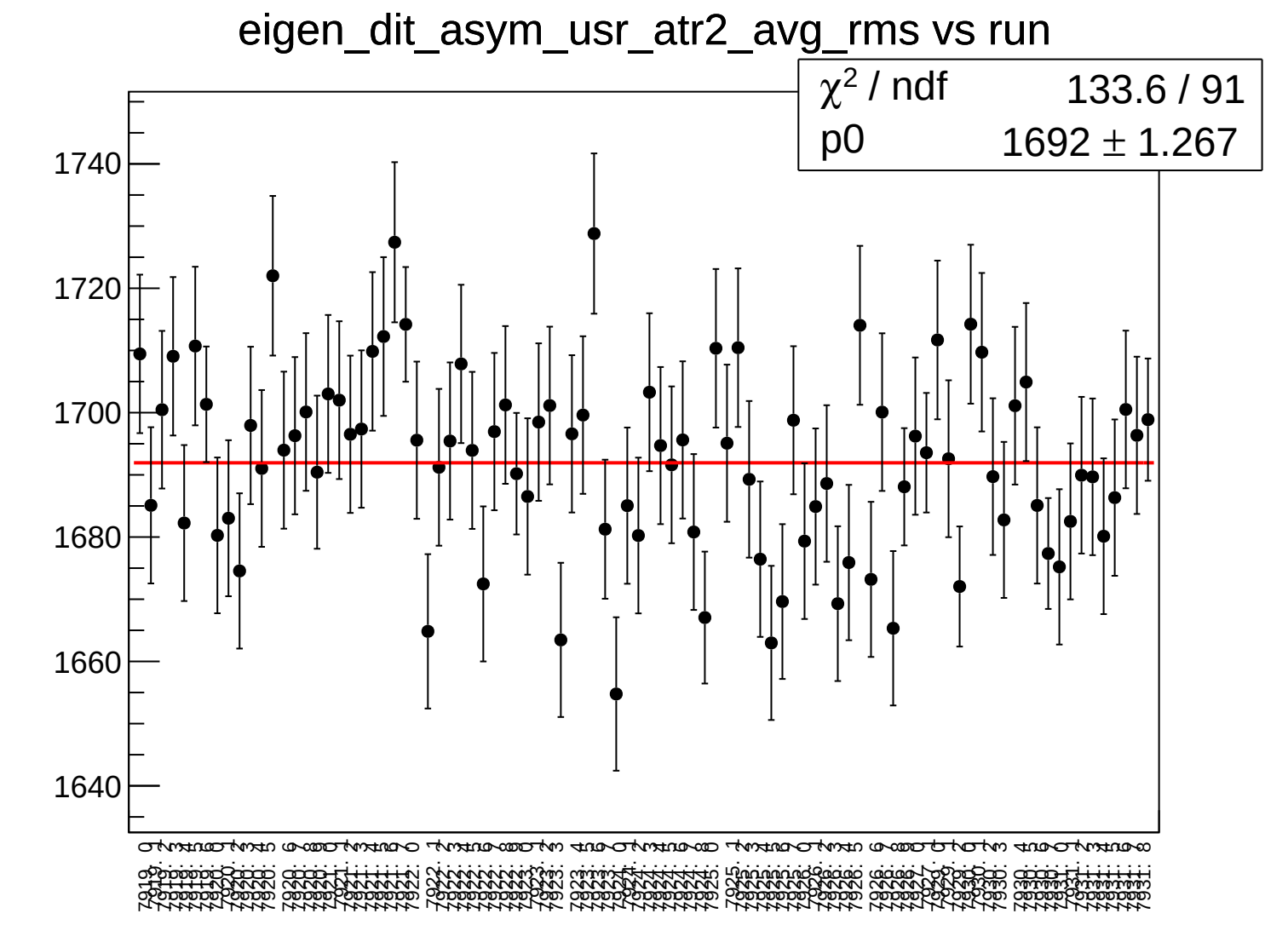

dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 133.6 / 91
p0 1692 ± 1.267
1740
1720
1700
1680
1660
1640

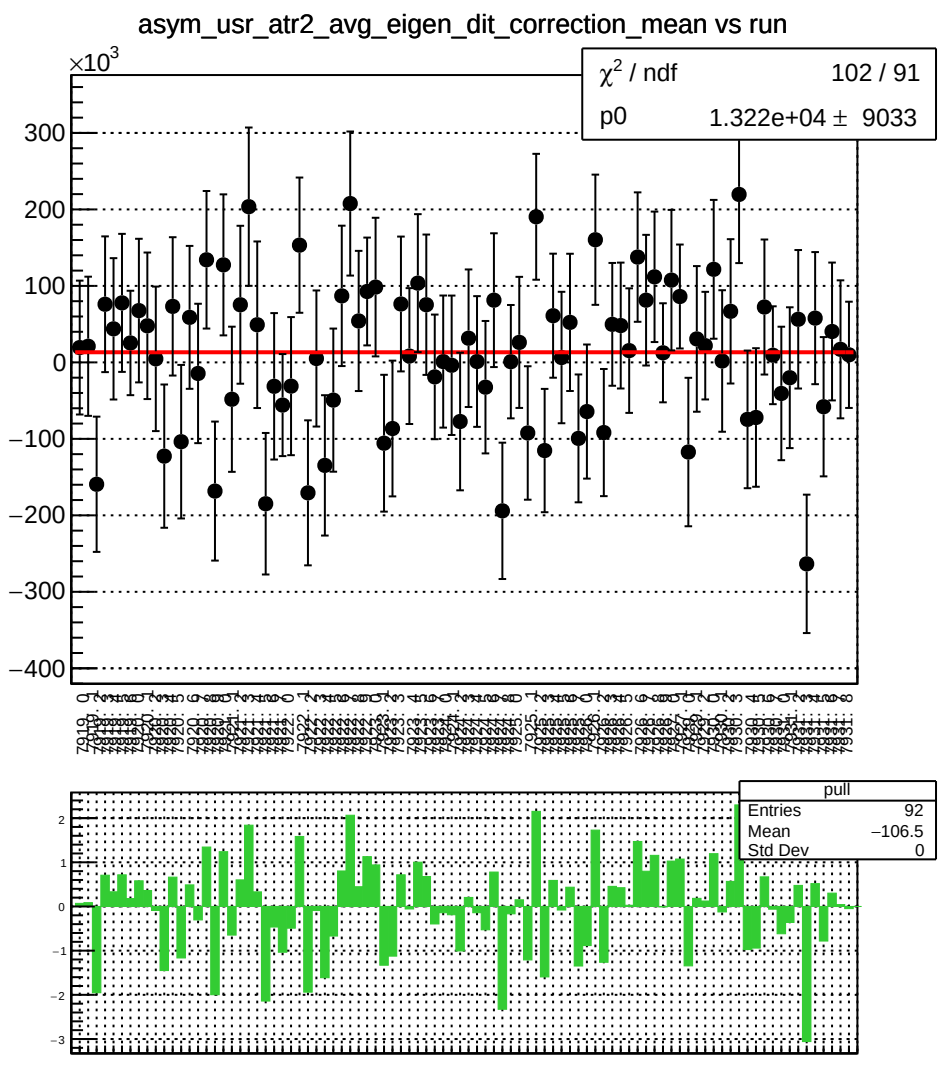

asym_usr_atr2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 102 / 91
p0 1.322e+04 ± 9033
pull
Entries 92
Mean −106.5
Std Dev 0

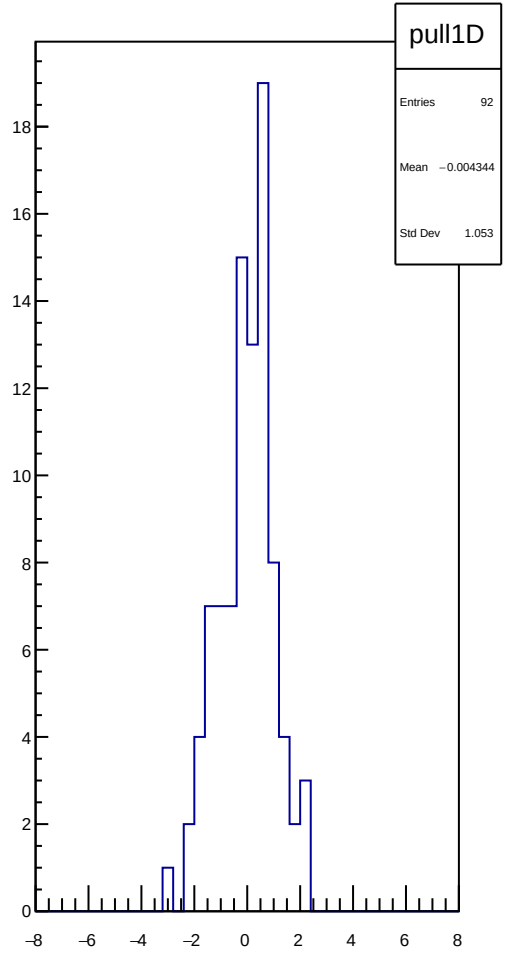

pull1D
Entries 92
Mean −0.004344
Std Dev 1.053

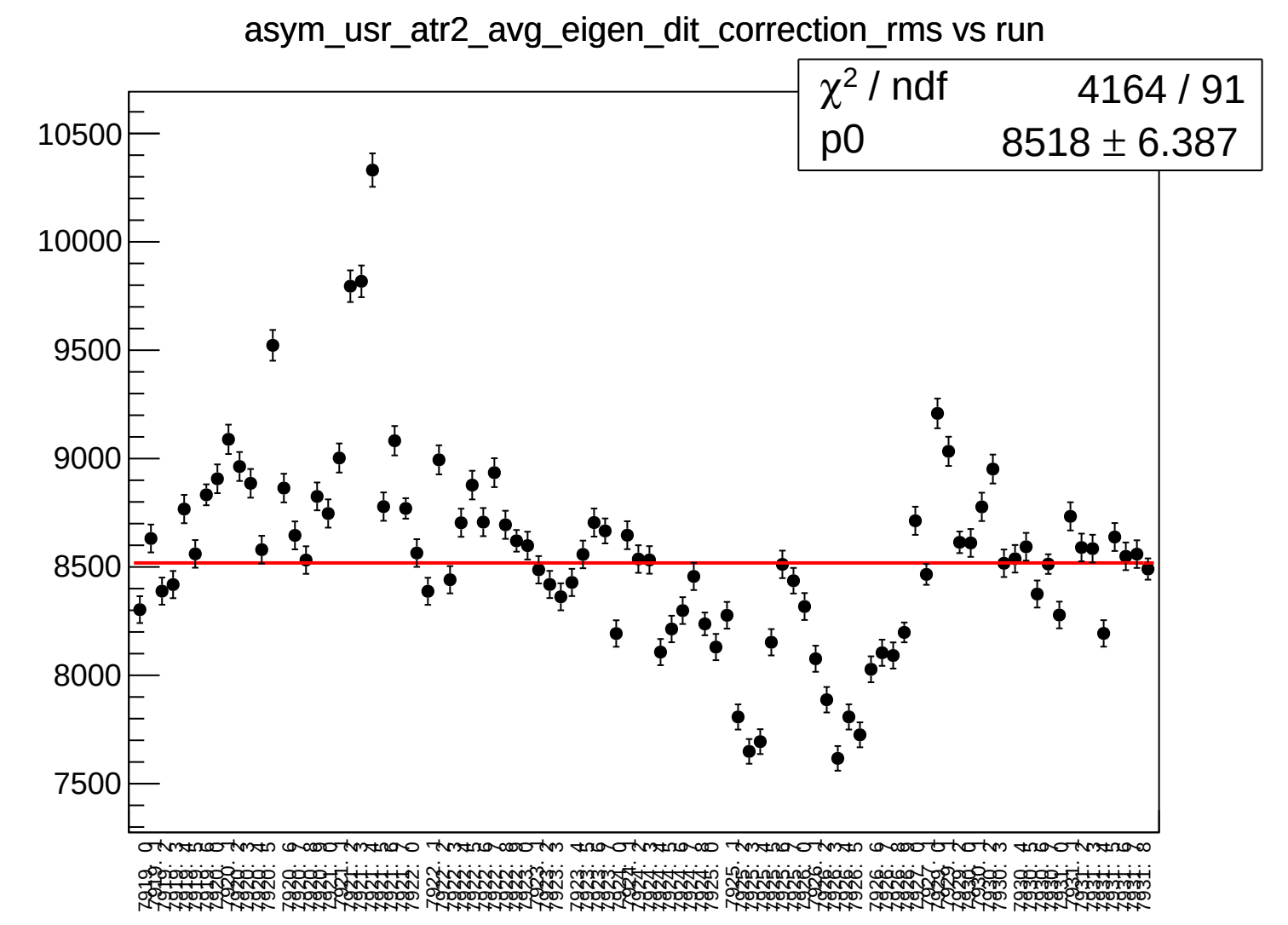

asym_usr_atr2_avg_dit_correction_rms vs run
χ² / ndf 4164 / 91
p0 8518 ± 6.387
10500
10000
9500
9000
8500
8000
7500

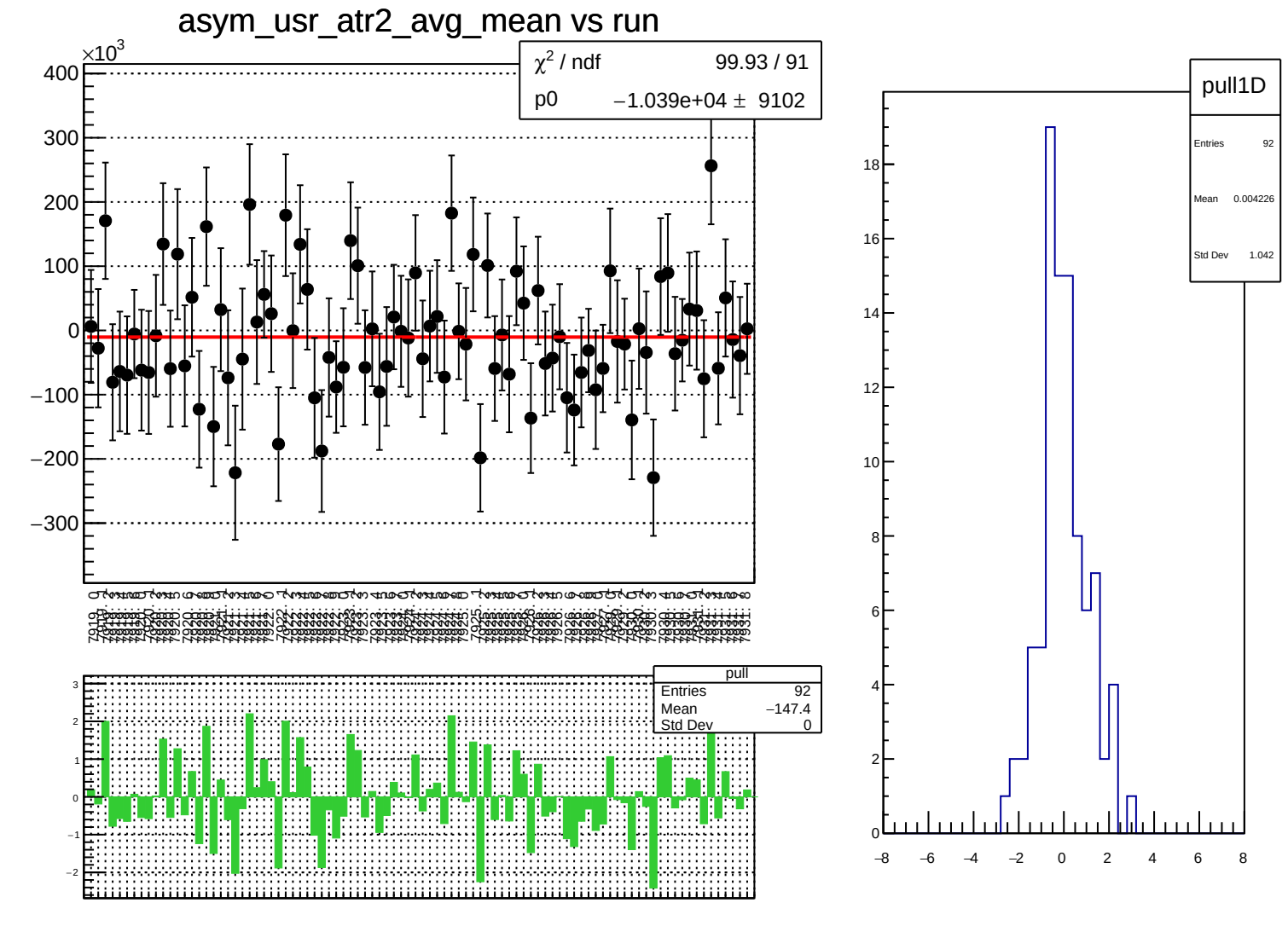

eigen_dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 89.57 / 91
p0 2859 ± 1792
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 513.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.001742
Std Dev 0.9867
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

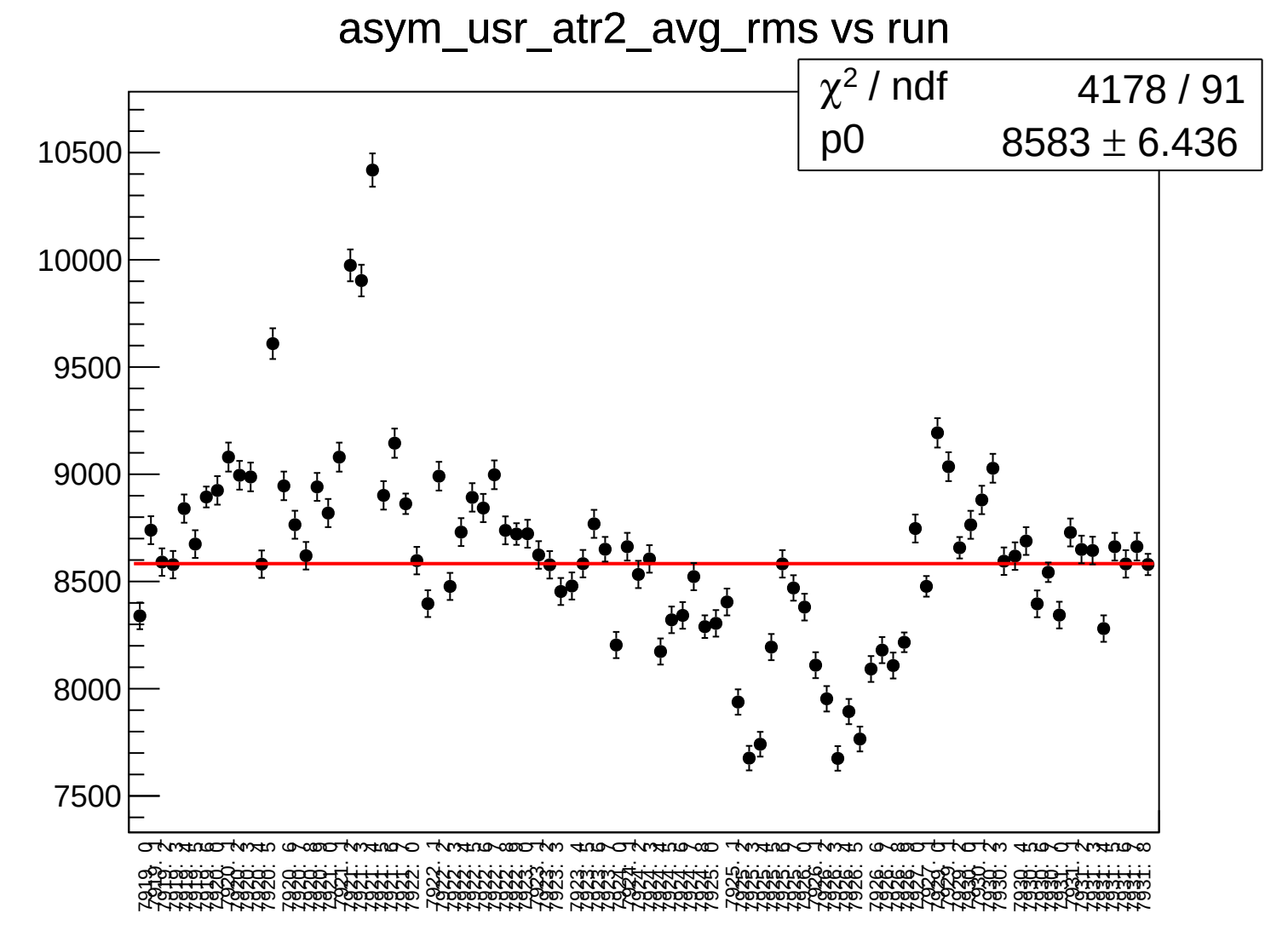

eigen_dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 133.6 / 91
p0 1692 ± 1.267
1740
1720
1700
1680
1660
1640

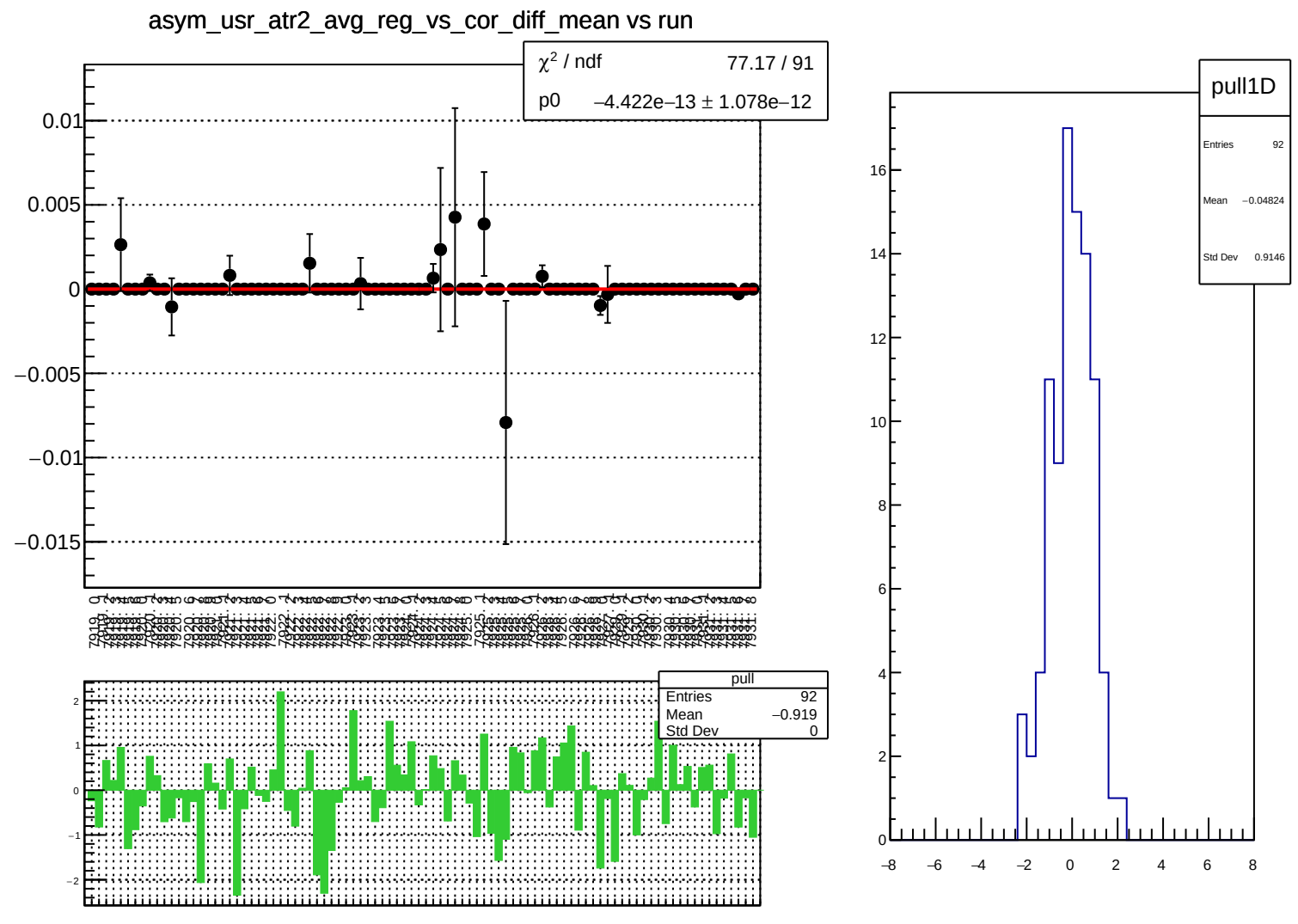

asym_usr_atr2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 102 / 91
p0 1.322e+04 ± 9033
pull
Entries 92
Mean −106.5
Std Dev 0

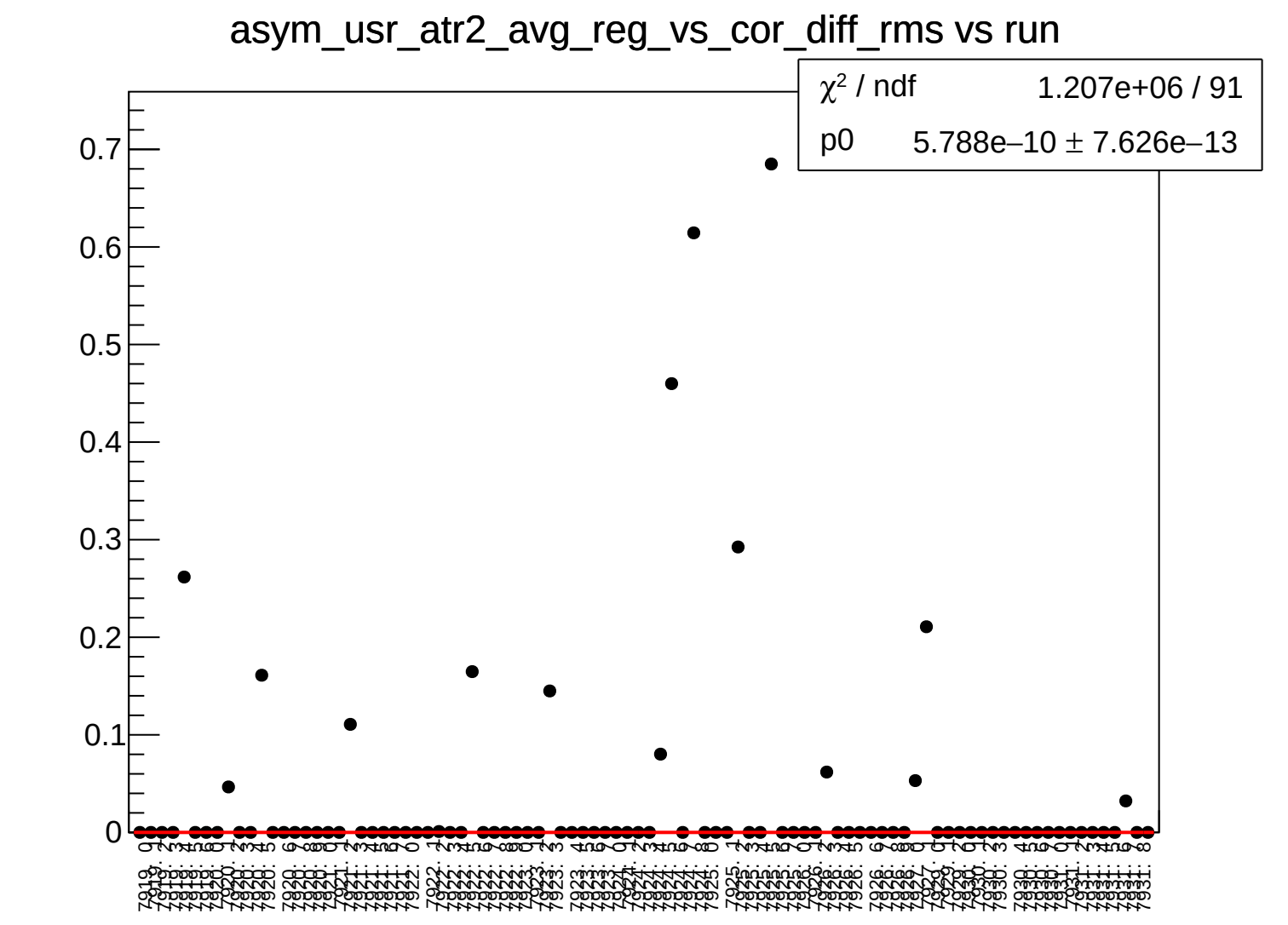

pull1D
Entries 92
Mean −0.004344
Std Dev 1.053

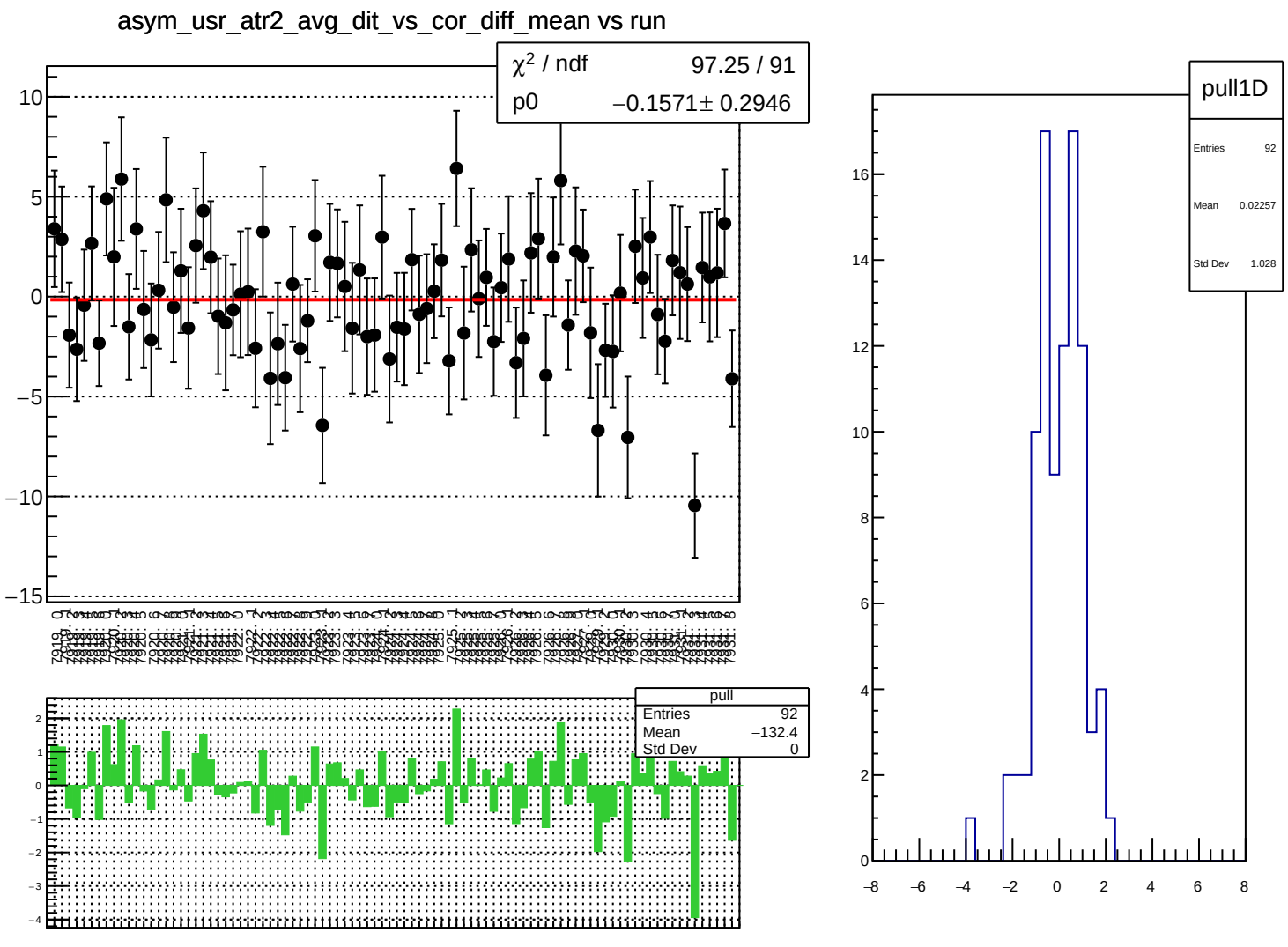

asym_usr_atr2_avg_eigen_dit_correction_rms vs run
χ² / ndf 4164 / 91
p0 8518 ± 6.387
10500
10000
9500
9000
8500
8000
7500

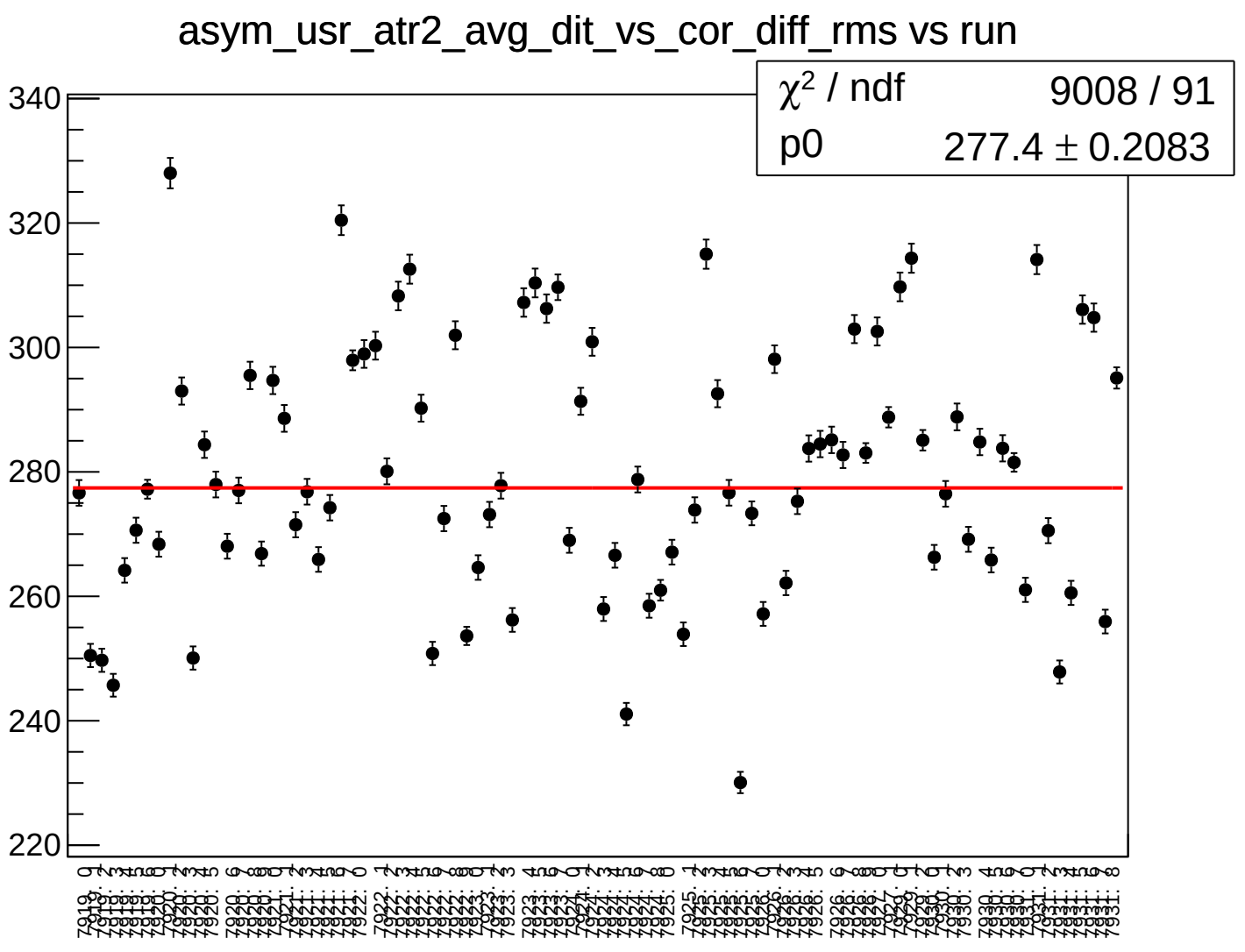

asym_usr_atr2_avg_mean vs run
×10^3
χ² / ndf 99.93 / 91
p0 −1.039e+04 ± 9102
pull
Entries 92
Mean −147.4
Std Dev 0
pull1D
Entries 92
Mean 0.004226
Std Dev 1.042

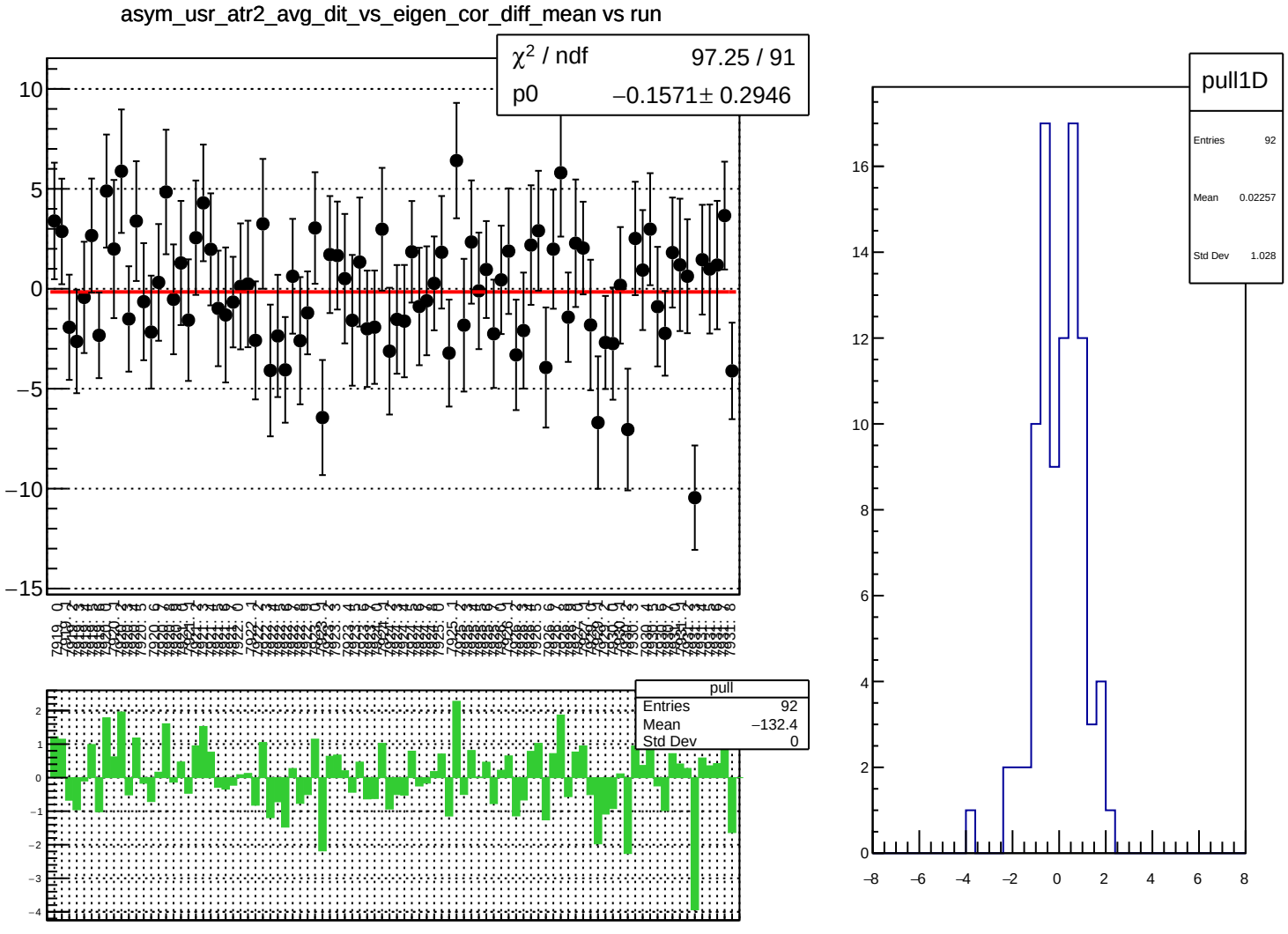

asym_usr_atr2_avg_rms vs run
χ^2 / ndf 4178 / 91
p0 8583 ± 6.436
10500
10000
9500
9000
8500
8000
7500

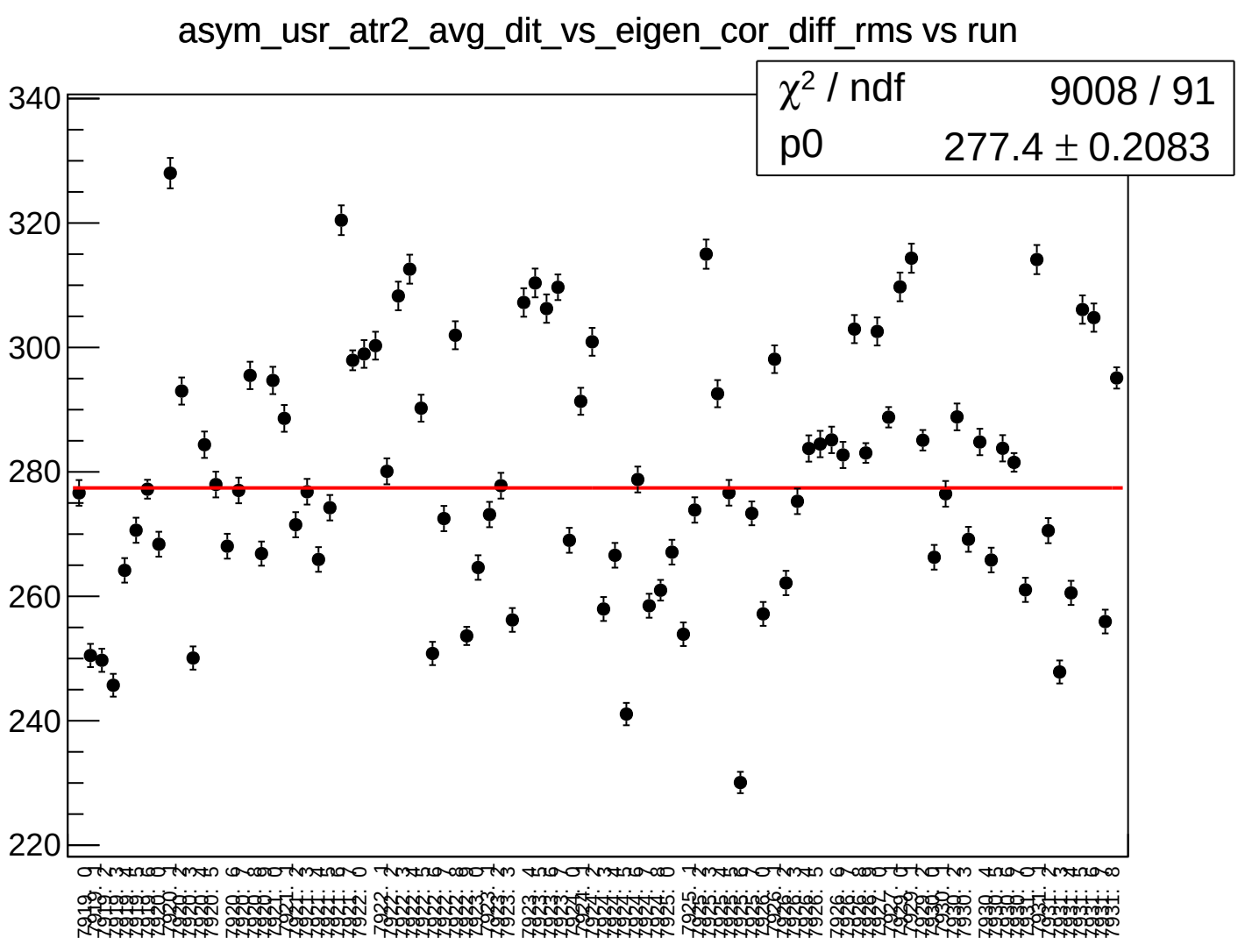

asym_usr_atr2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 77.17 / 91
p0 −4.422e−13 ± 1.078e−12
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 92
Mean −0.919
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.04824
Std Dev 0.9146
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

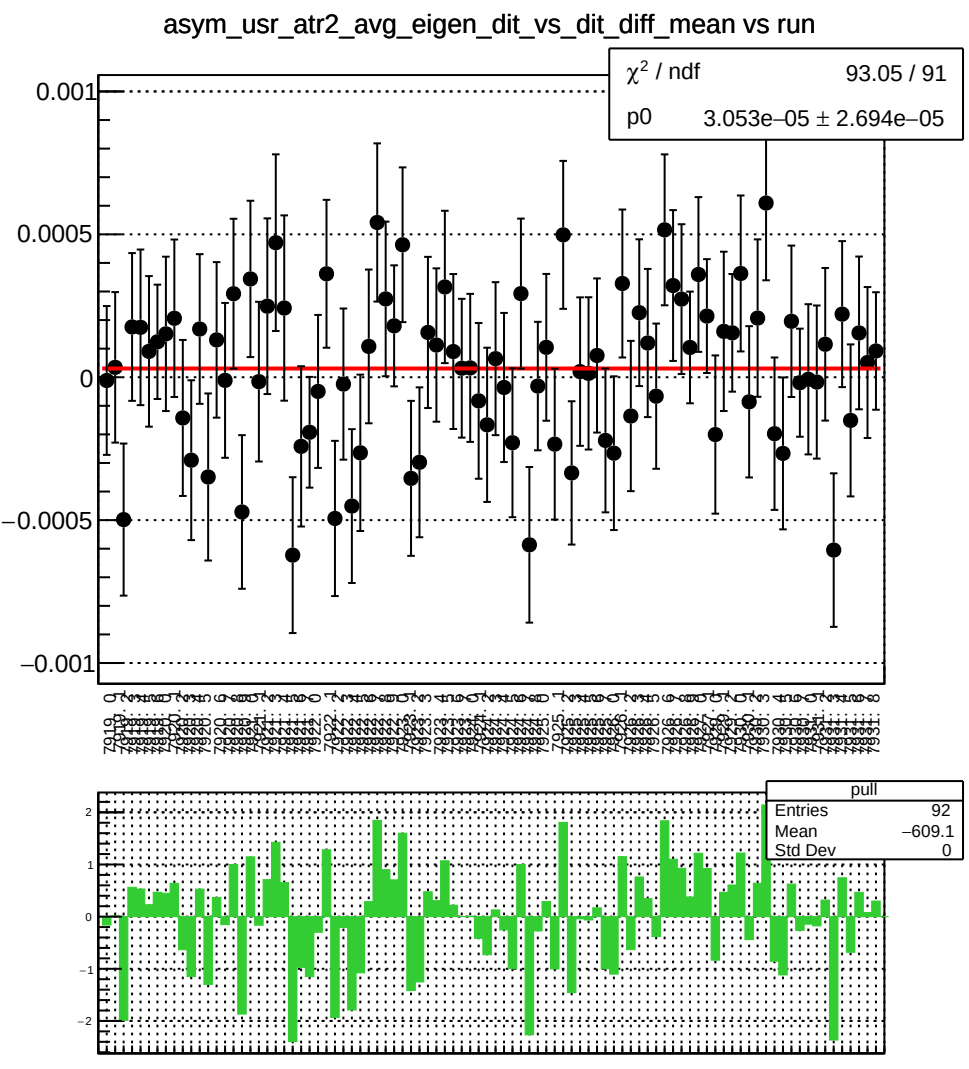

asym_usr_atr2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.207e+06 / 91
p0 5.788e−10 ± 7.626e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

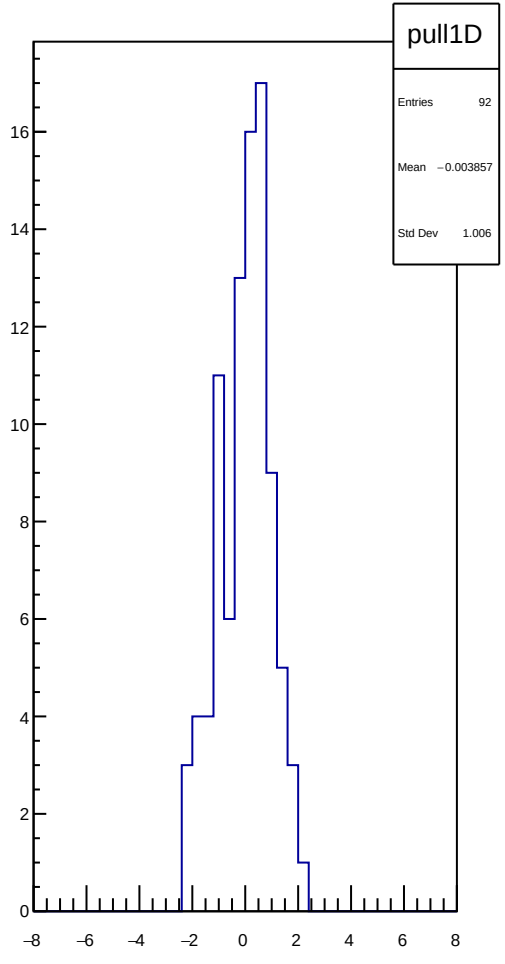

asym_usr_atr2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 97.25 / 91
p0 −0.1571± 0.2946
pull
Entries 92
Mean −132.4
Std Dev 0
pull1D
Entries 92
Mean 0.02257
Std Dev 1.028

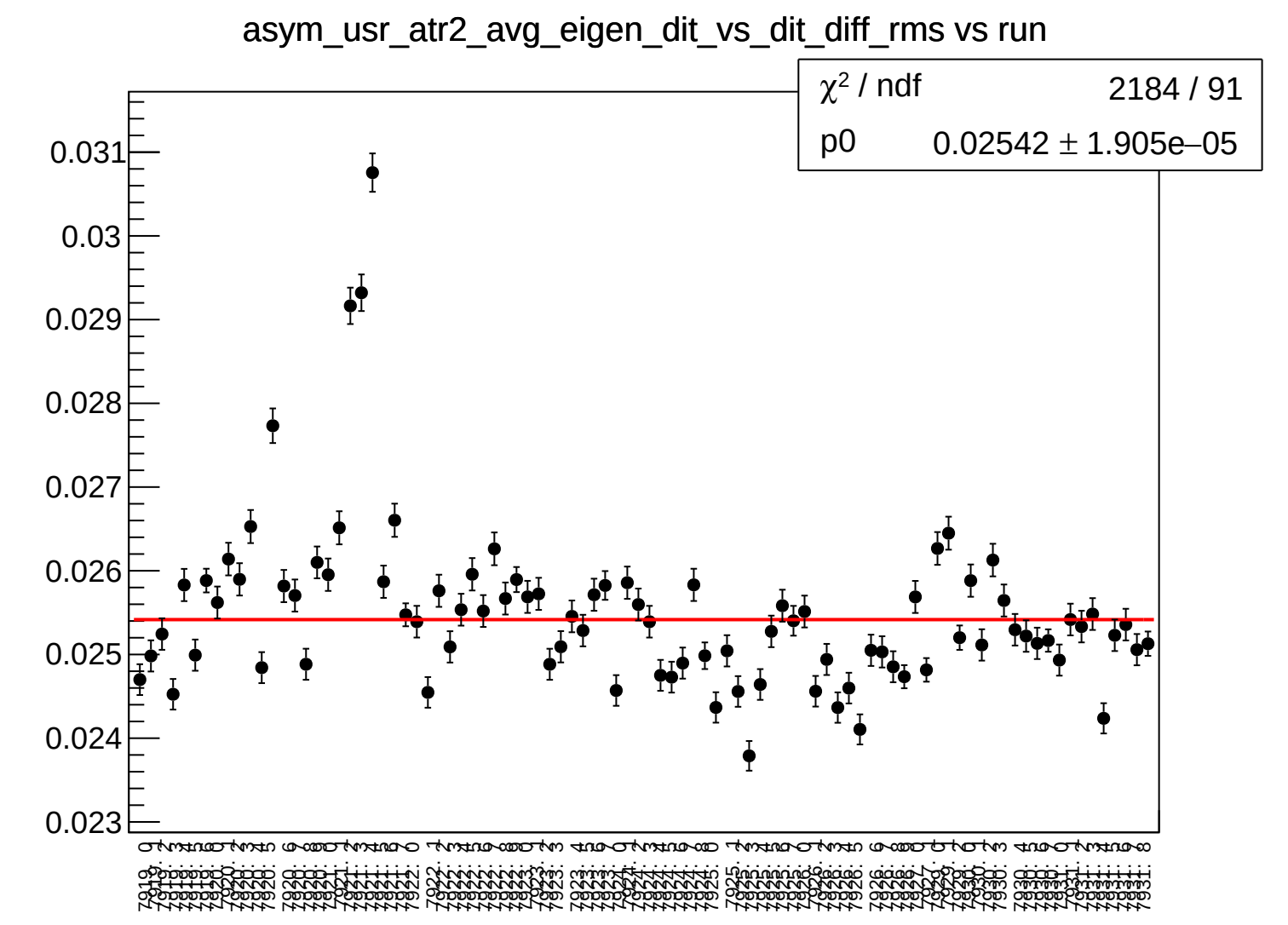

asym_usr_atr2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 9008 / 91
p0 277.4 ± 0.2083
340
320
300
280
260
240
220

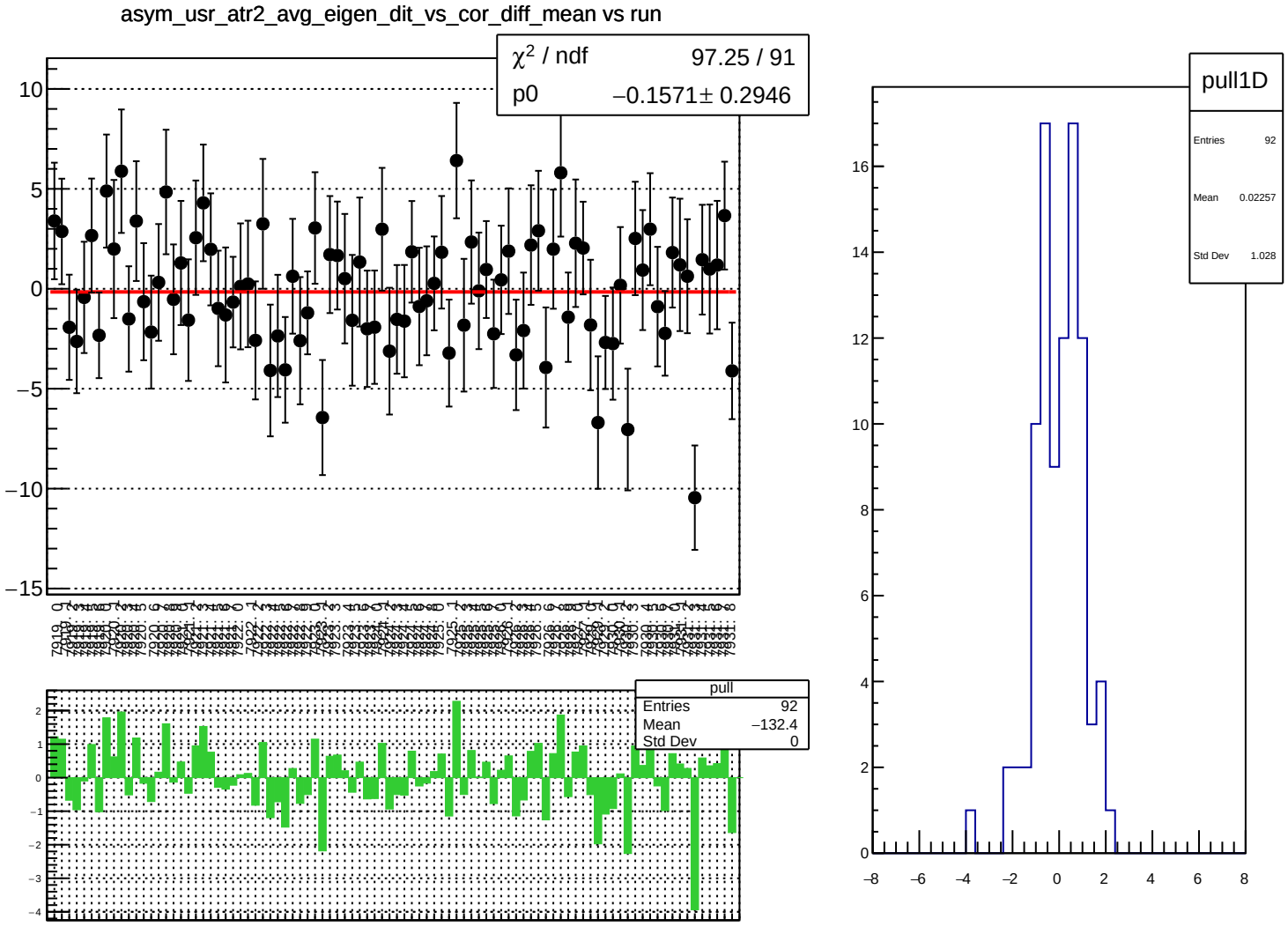

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.25 / 91
p0 −0.1571± 0.2946
pull
Entries 92
Mean −132.4
Std Dev 0
pull1D
Entries 92
Mean 0.02257
Std Dev 1.028

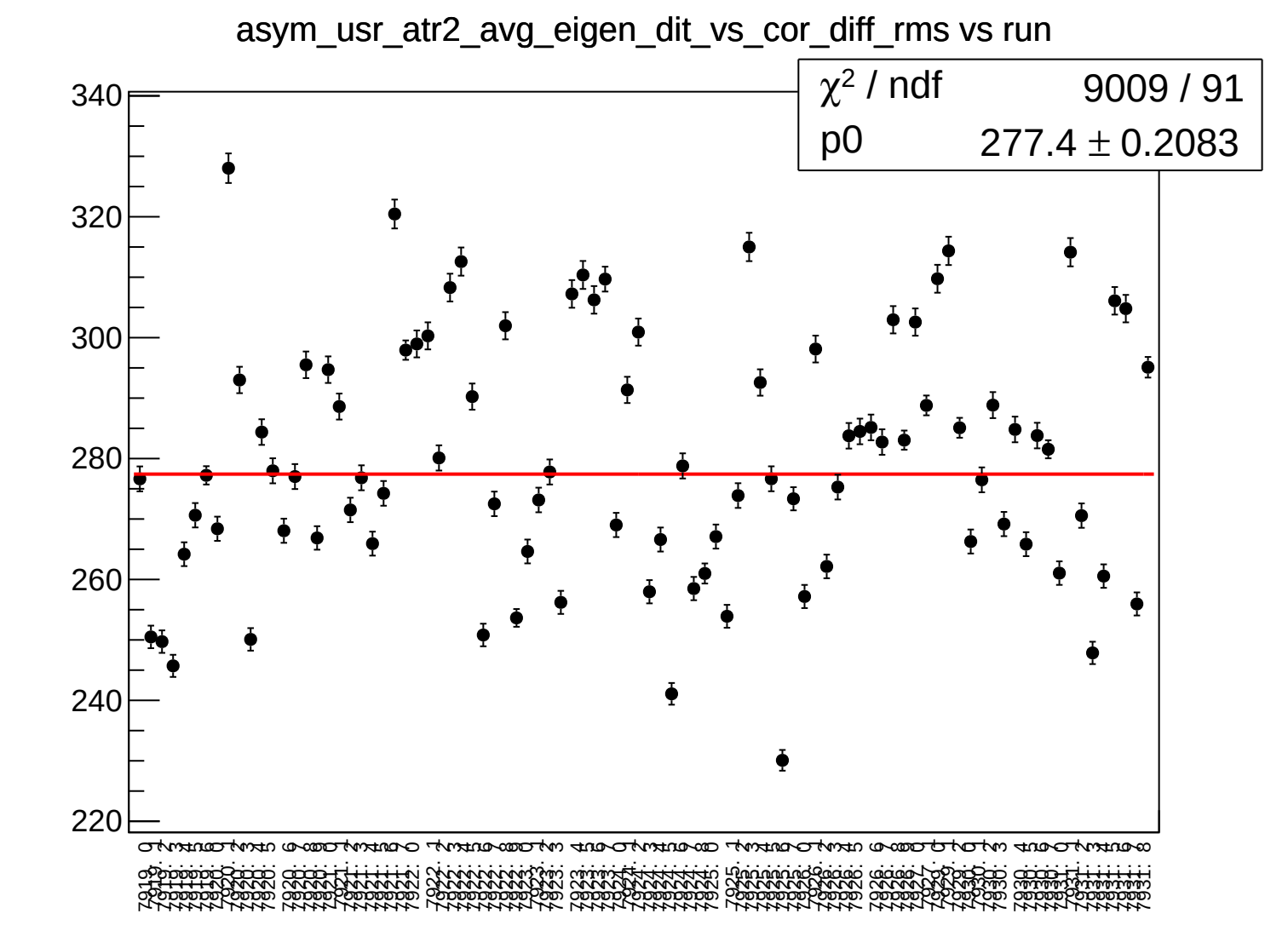

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9008 / 91
p0 277.4 ± 0.2083
340
320
300
280
260
240
220

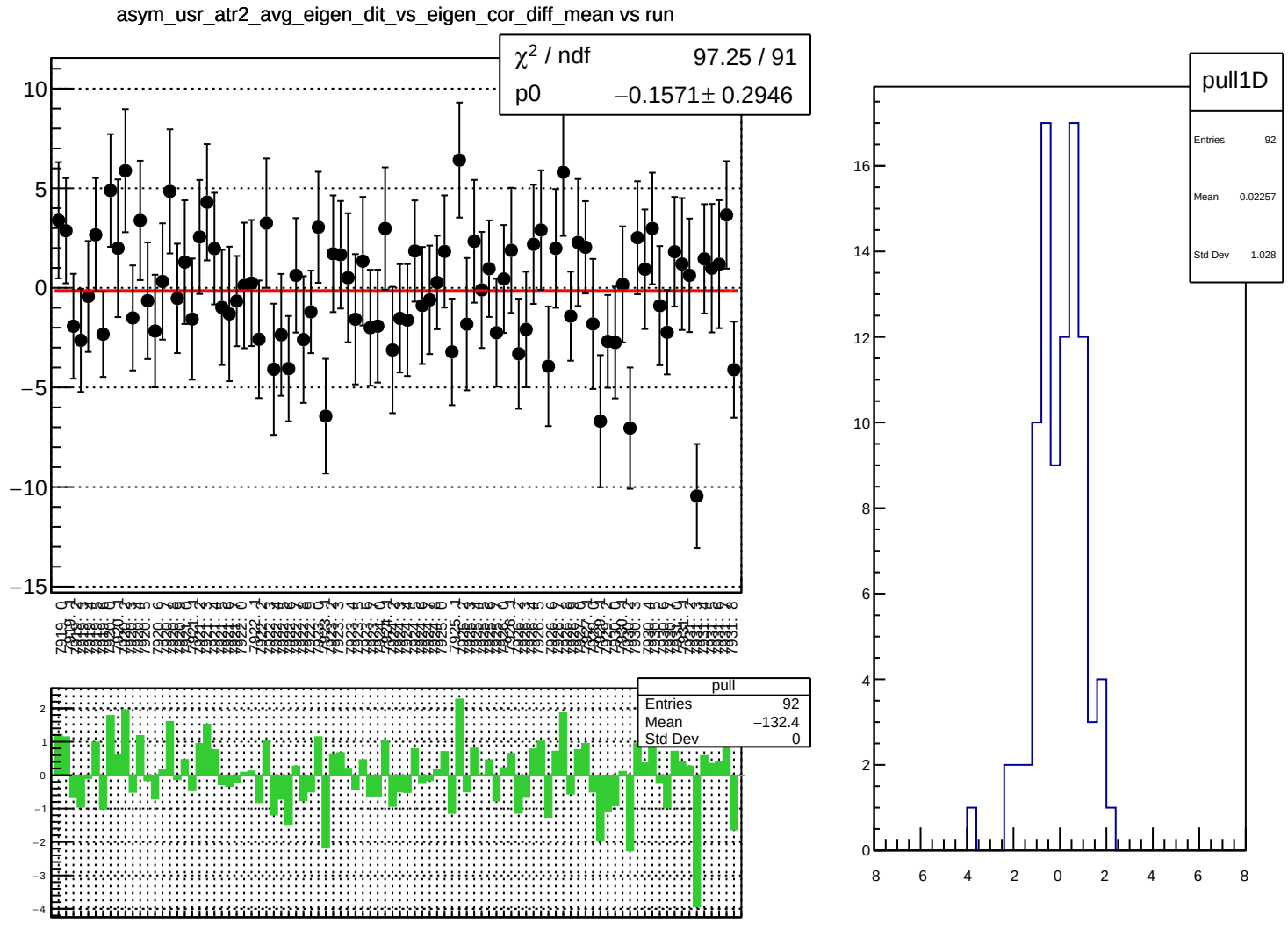

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 93.05 / 91
p0 3.053e−05 ± 2.694e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 92
Mean −609.1
Std Dev 0
2
1
0
−1
−2

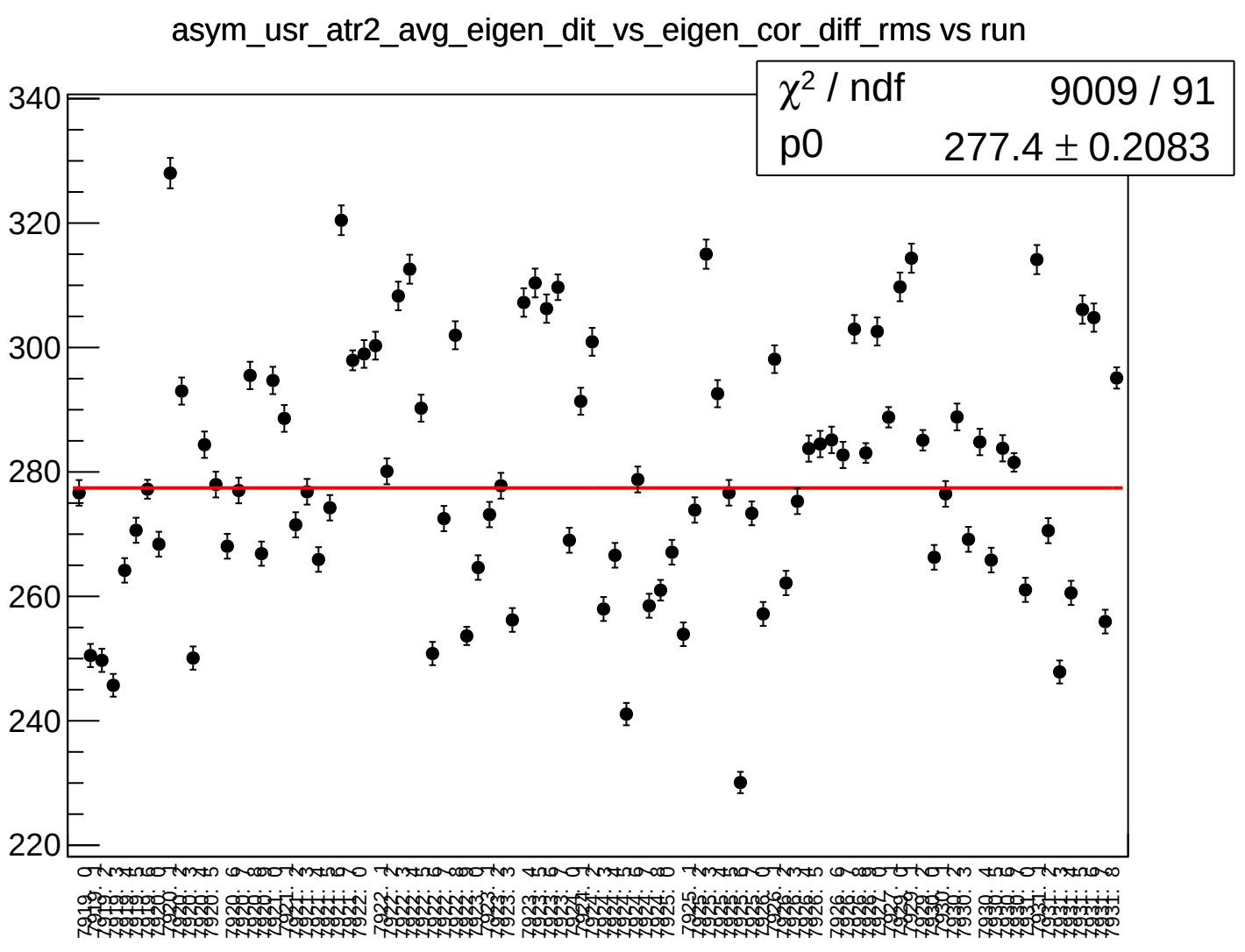

pull1D
Entries 92
Mean −0.003857
Std Dev 1.006
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

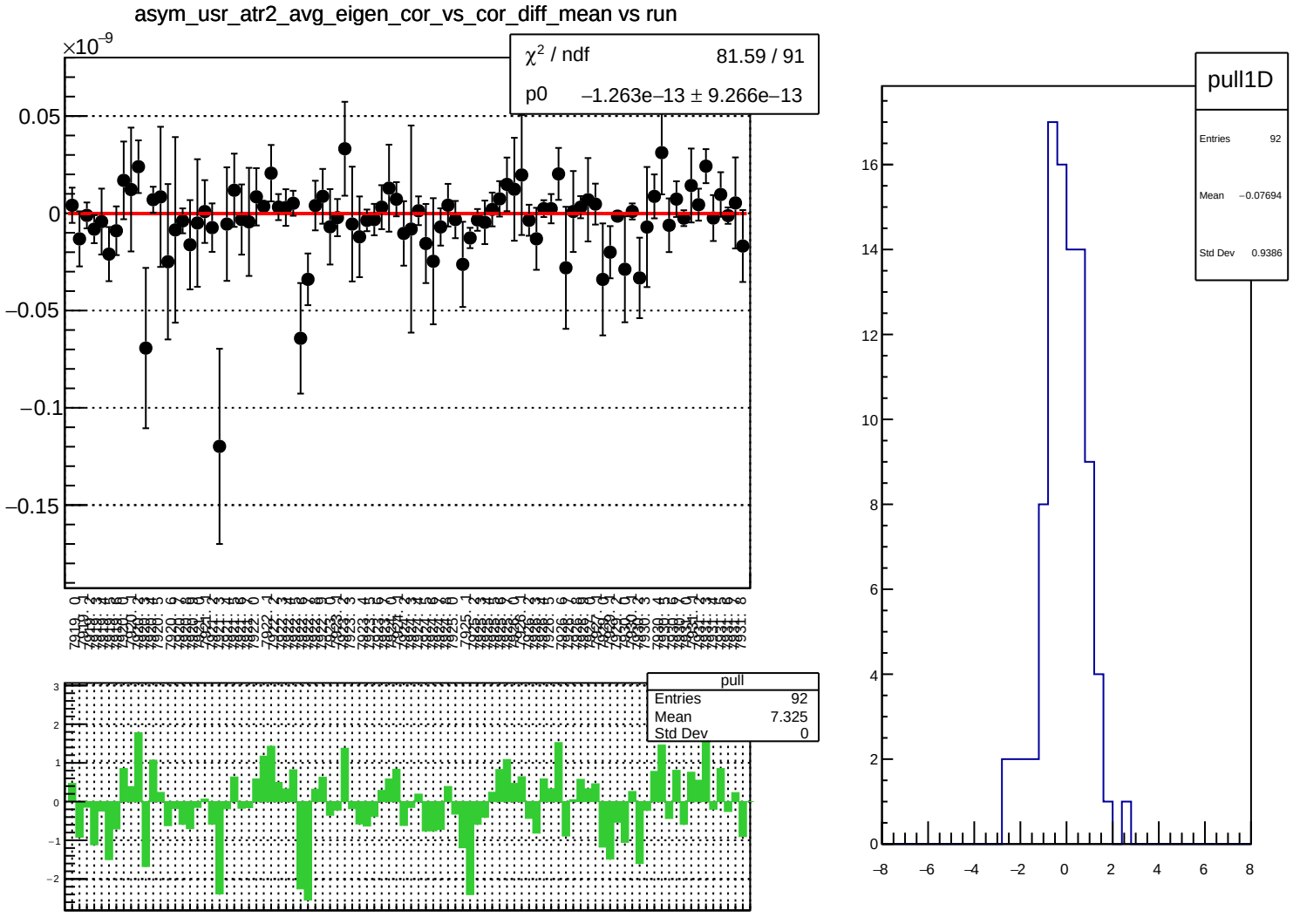

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2184 / 91
p0 0.02542 ± 1.905e−05
0.031
0.03
0.029
0.028
0.027
0.026
0.025
0.024
0.023

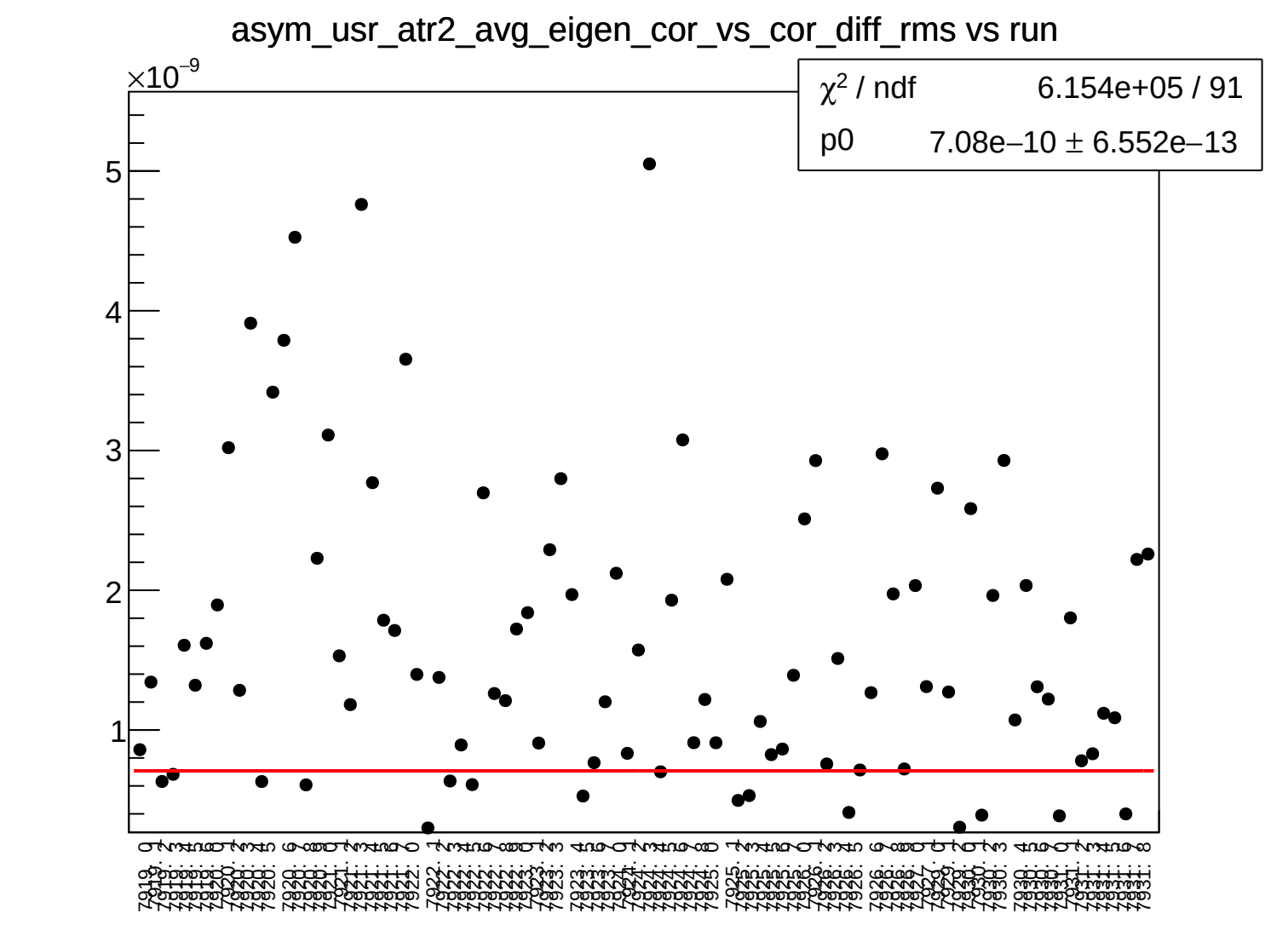

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 97.25 / 91
p0 −0.1571± 0.2946
pull
Entries 92
Mean −132.4
Std Dev 0
pull1D
Entries 92
Mean 0.02257
Std Dev 1.028

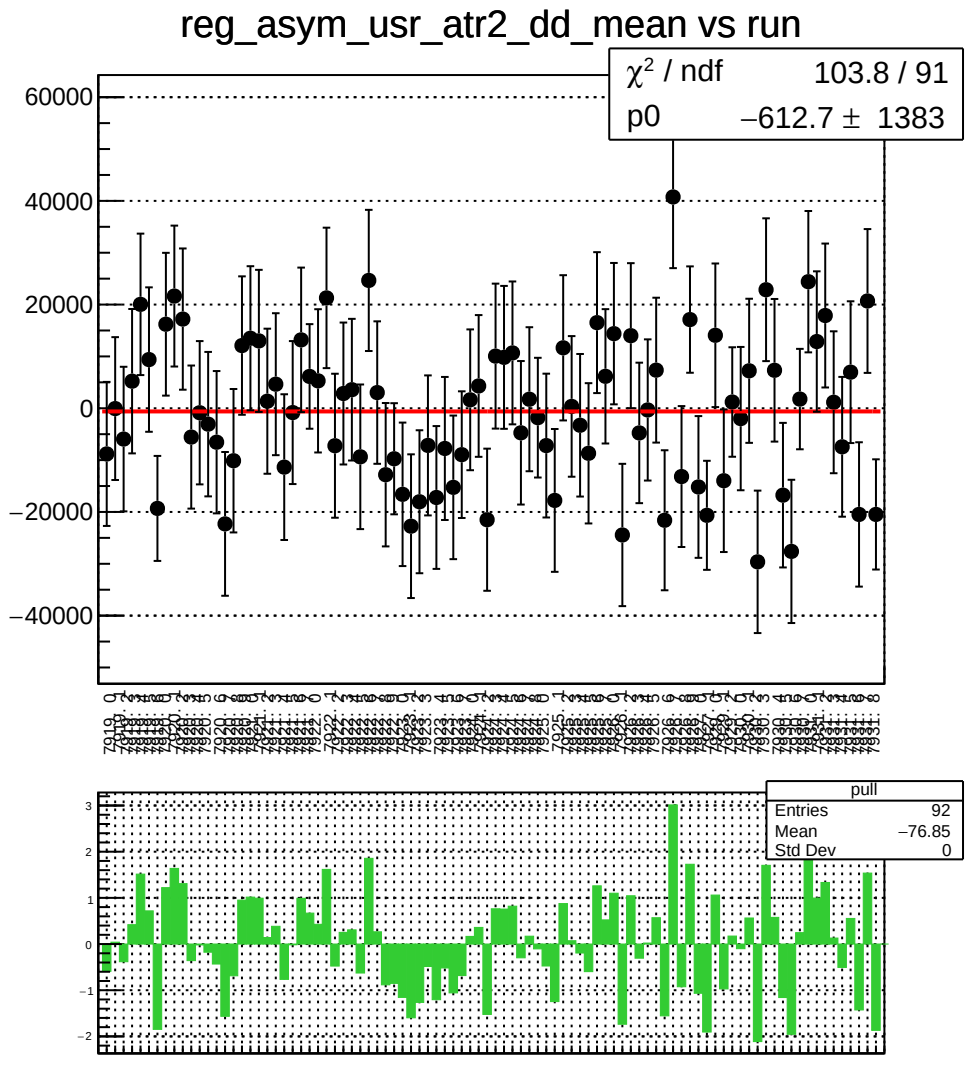

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9009 / 91
p0 277.4 ± 0.2083
340
320
300
280
260
240
220

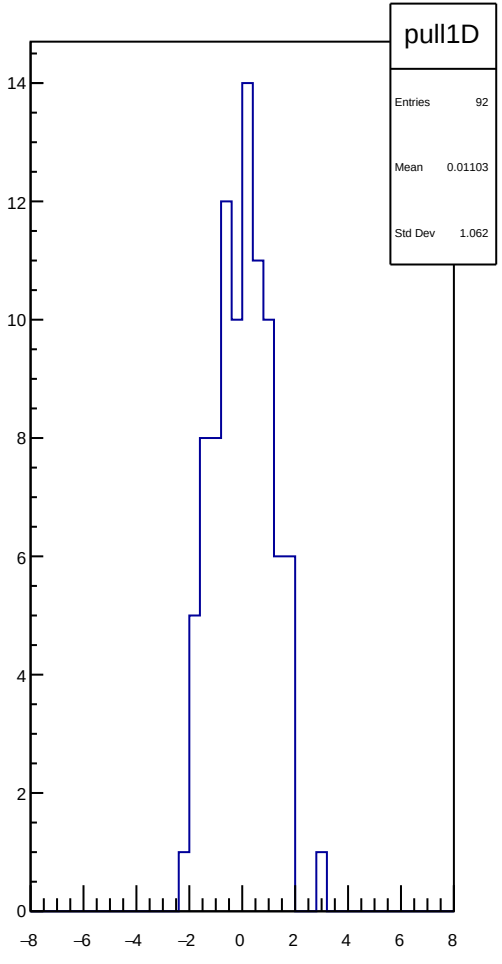

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.25 / 91
p0 −0.1571± 0.2946
pull
Entries 92
Mean −132.4
Std Dev 0
pull1D
Entries 92
Mean 0.02257
Std Dev 1.028

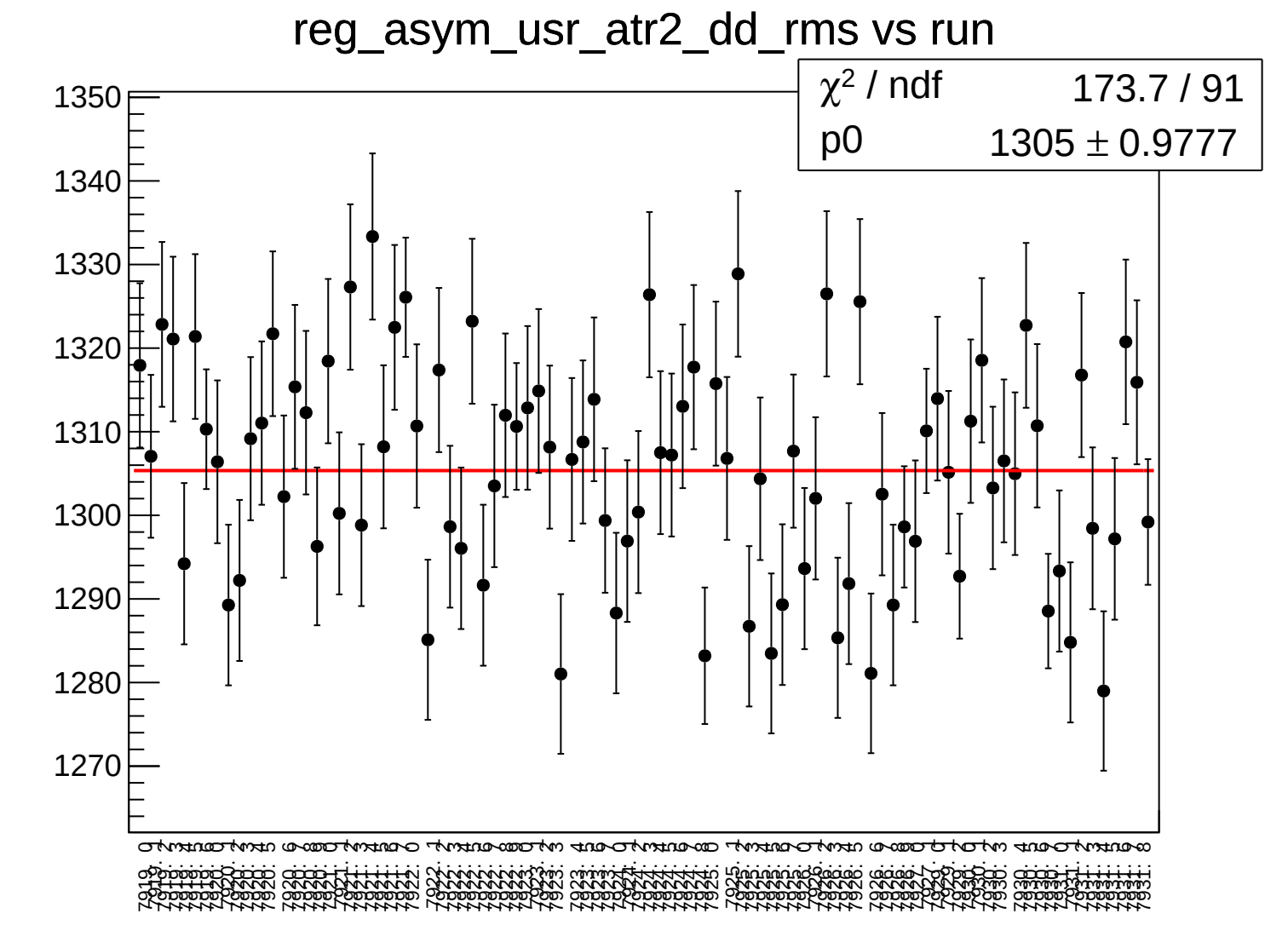

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9009 / 91
p0 277.4 ± 0.2083
340
320
300
280
260
240
220

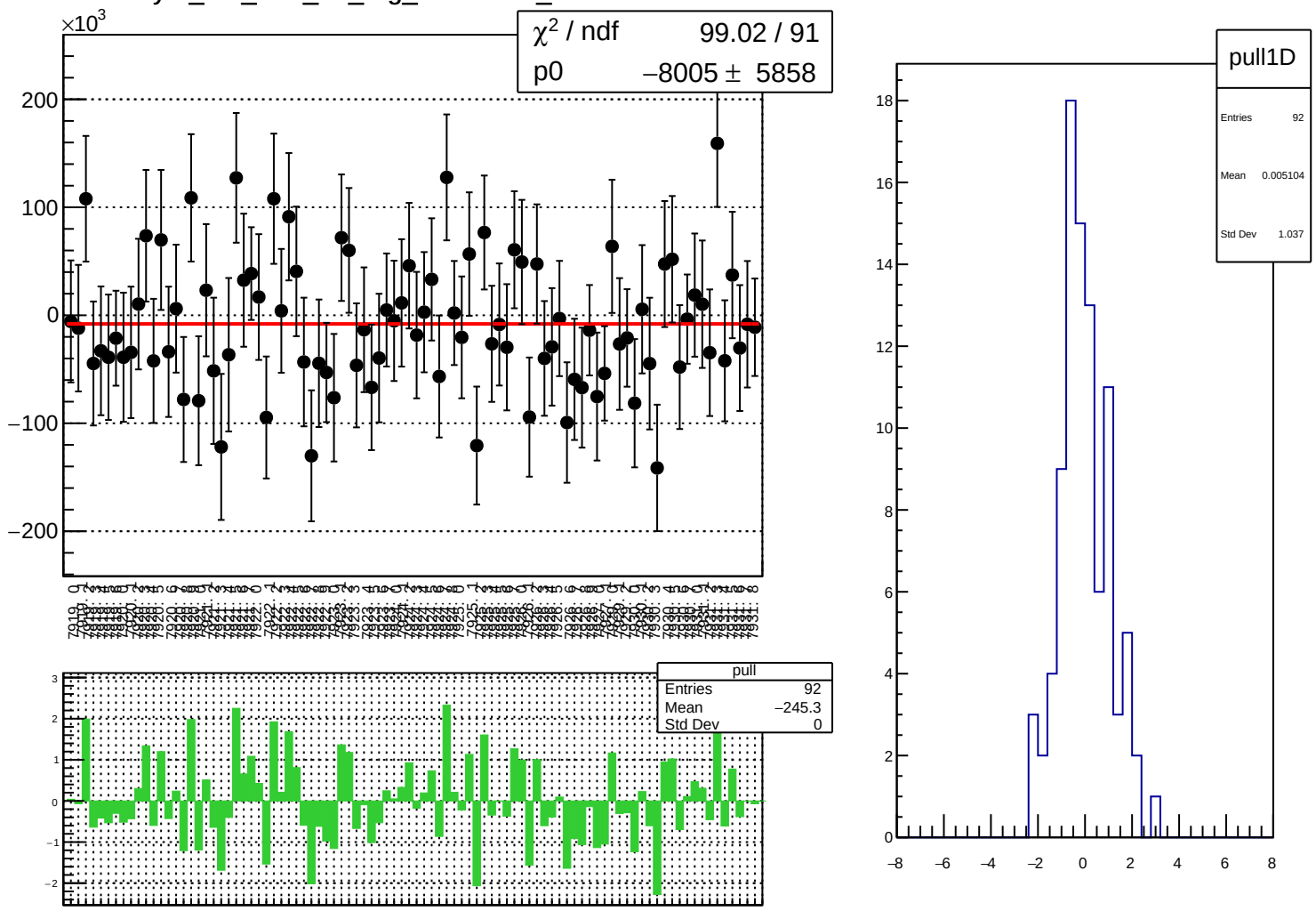

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 81.59 / 91
p0 −1.263e−13 ± 9.266e−13
0.05
0
−0.05
−0.1
−0.15
pull
Entries 92
Mean 7.325
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.07694
Std Dev 0.9386
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

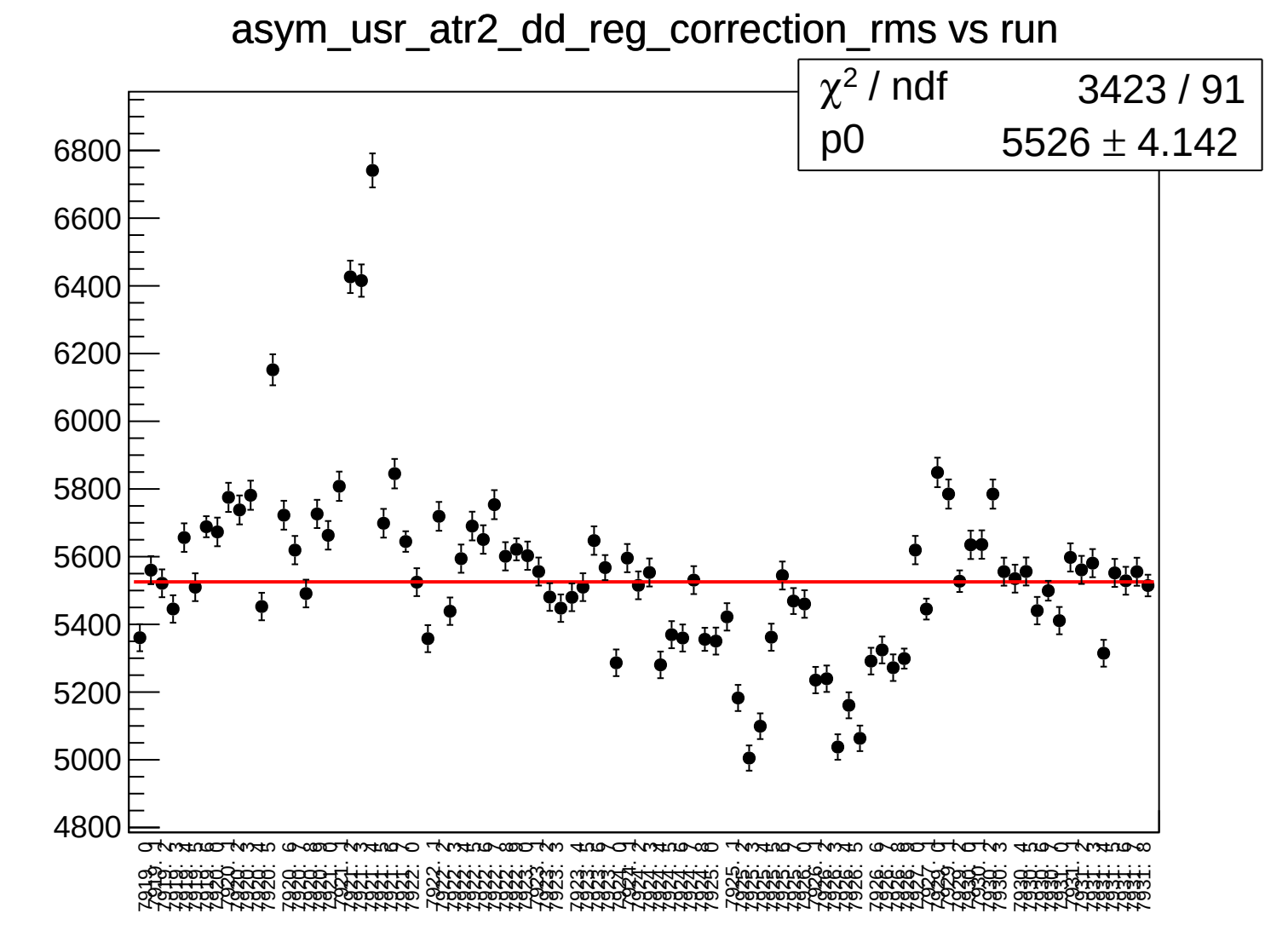

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.154e+05 / 91
p0 7.08e−10 ± 6.552e−13
5
4
3
2
1

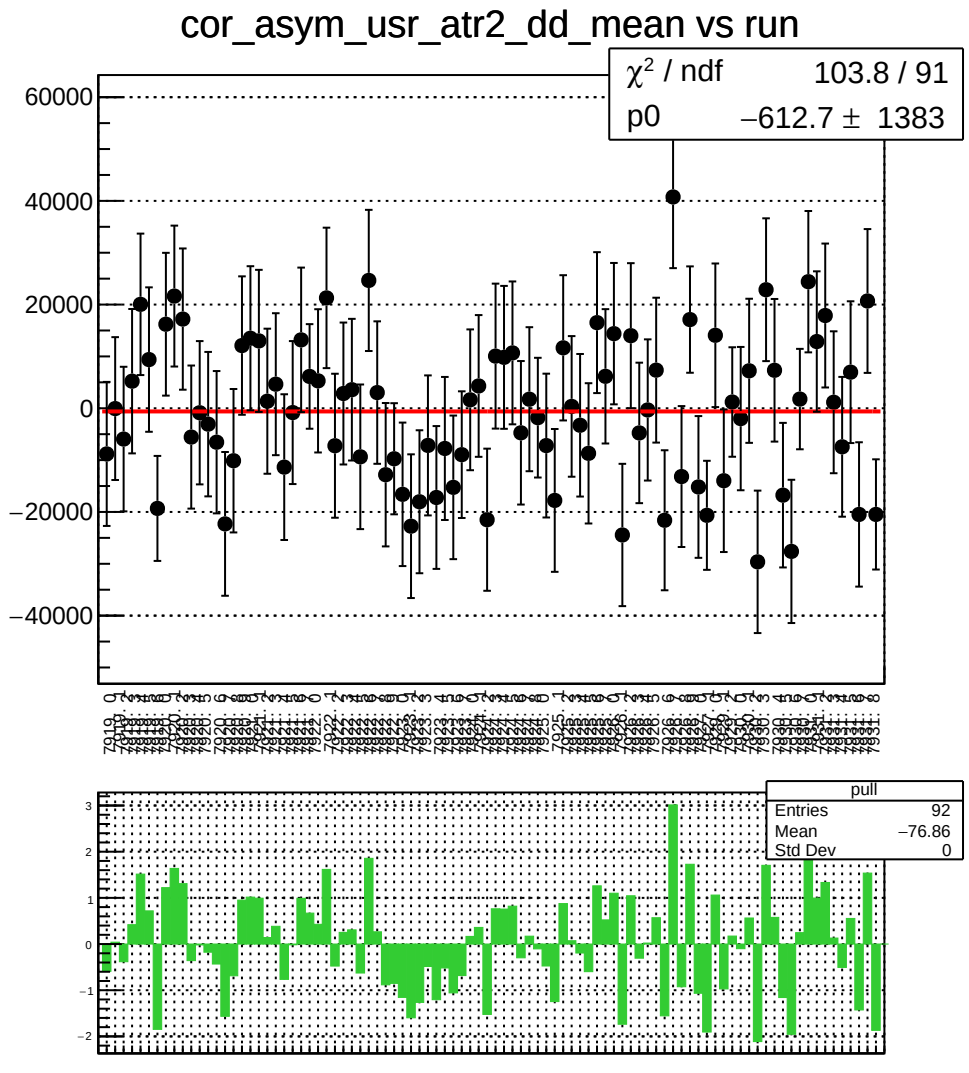

reg_asym_usr_atr2_dd_mean vs run
χ² / ndf 103.8 / 91
p0 −612.7 ± 1383
60000
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −76.85
Std Dev 0
3
2
1
0
−1
−2

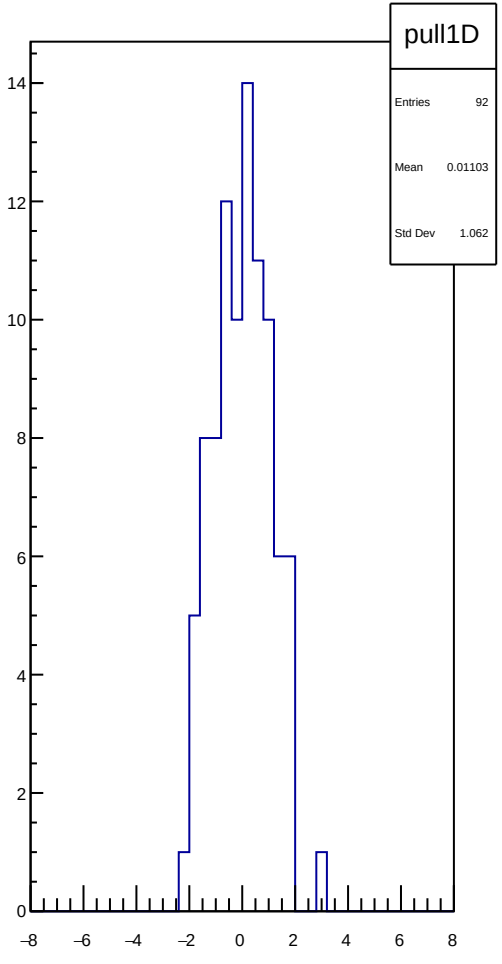

pull1D
Entries 92
Mean 0.01103
Std Dev 1.062
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

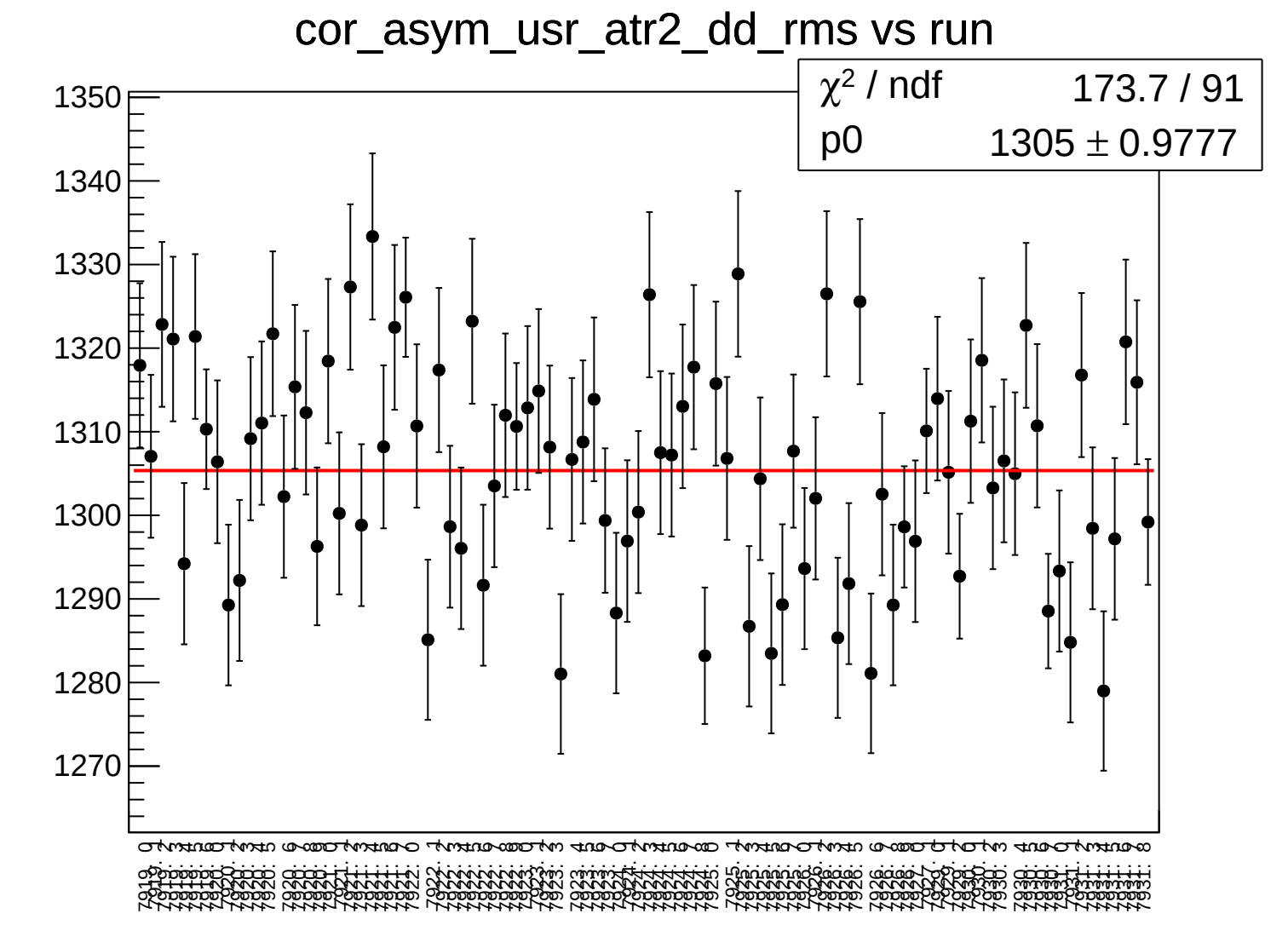

reg_asym_usr_atr2_dd_rms vs run
χ^2 / ndf 173.7 / 91
p0 1305 ± 0.9777
1350
1340
1330
1320
1310
1300
1290
1280
1270

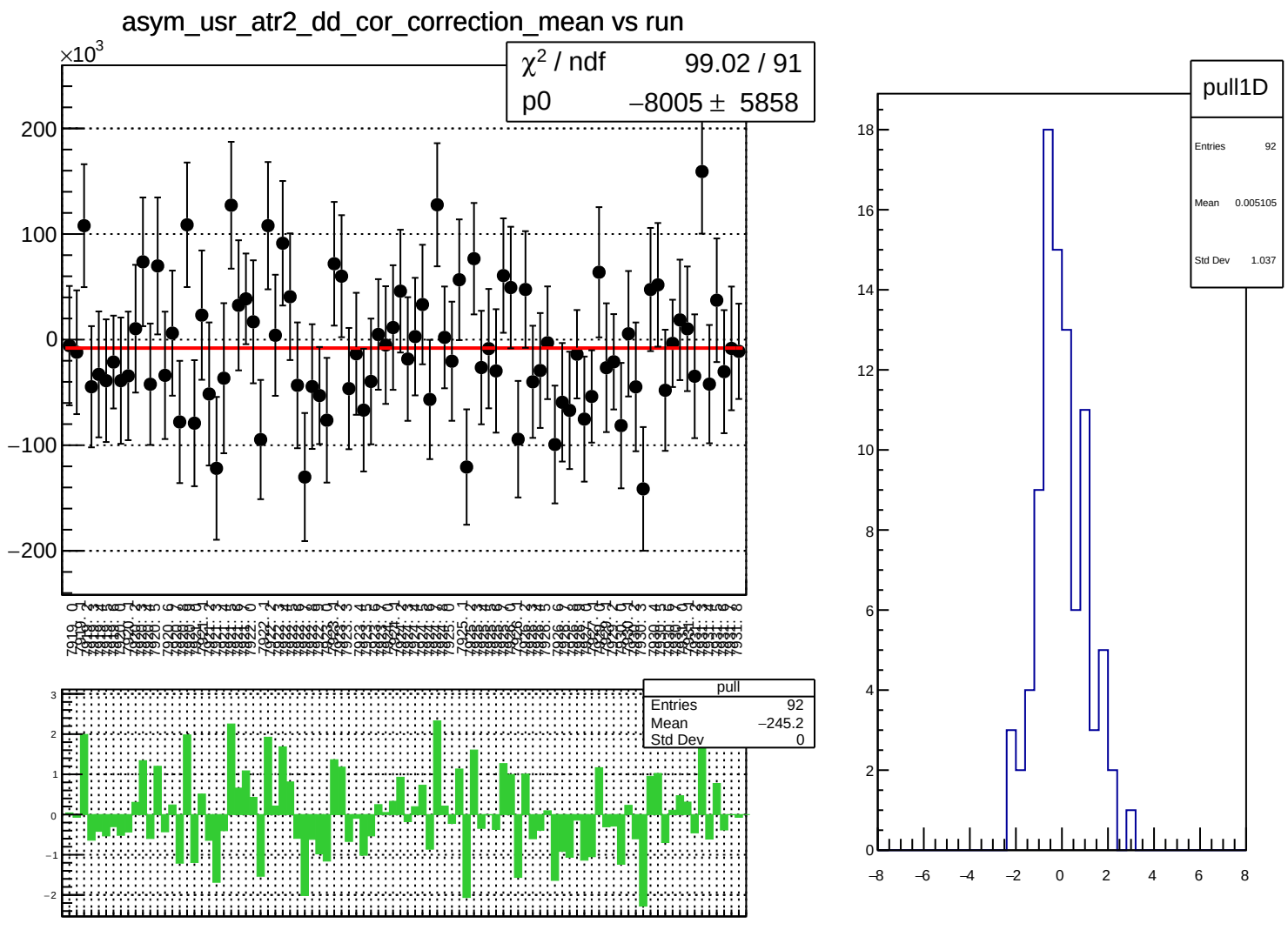

asym_usr_atr2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 99.02 / 91
p0 −8005 ± 5858
200
100
0
−100
−200
pull
Entries 92
Mean −245.3
Std Dev 0
pull1D
Entries 92
Mean 0.005104
Std Dev 1.037

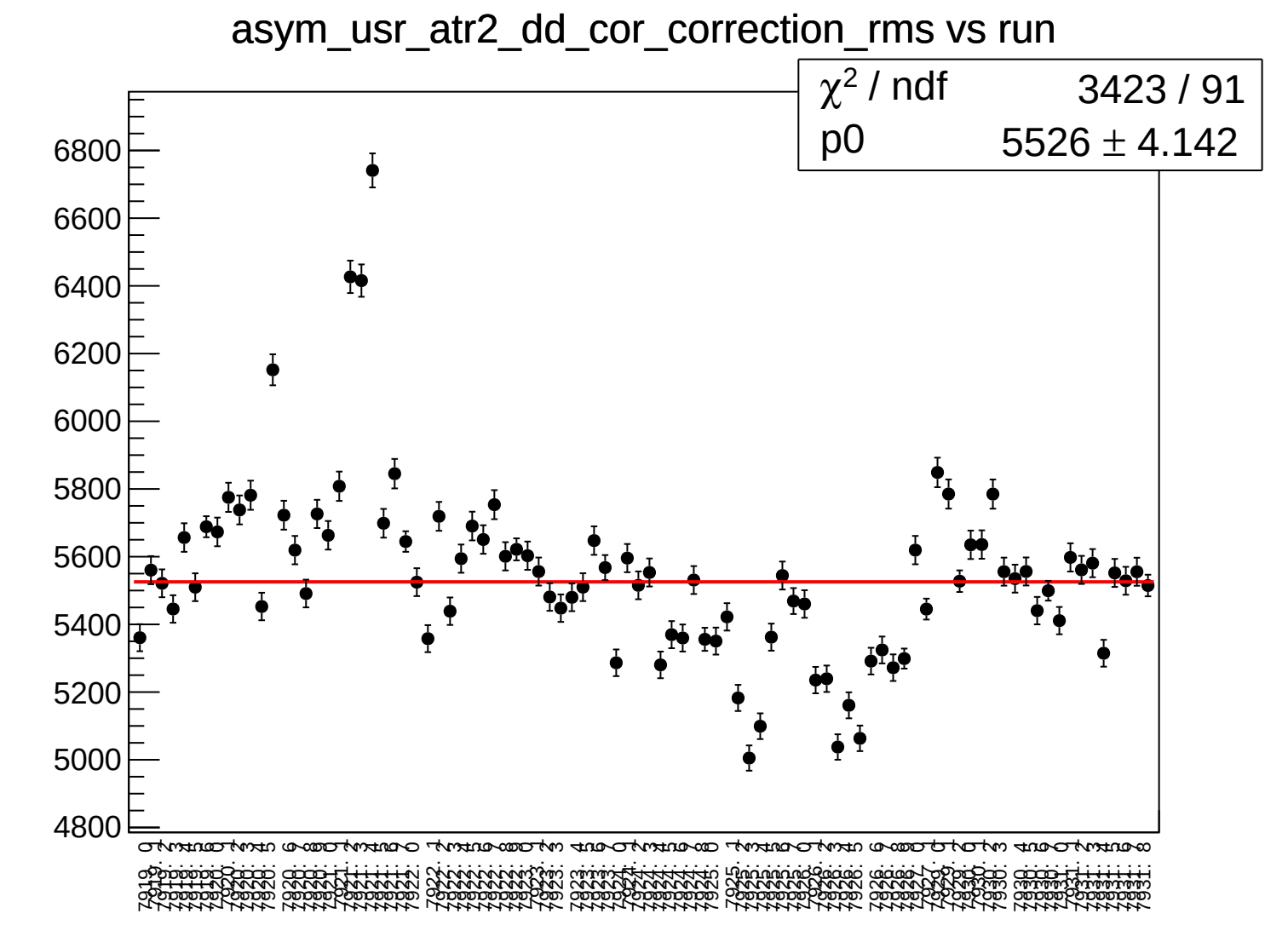

asym_usr_atr2_dd_reg_correction_rms vs run
χ² / ndf 3423 / 91
p0 5526 ± 4.142
6800
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800

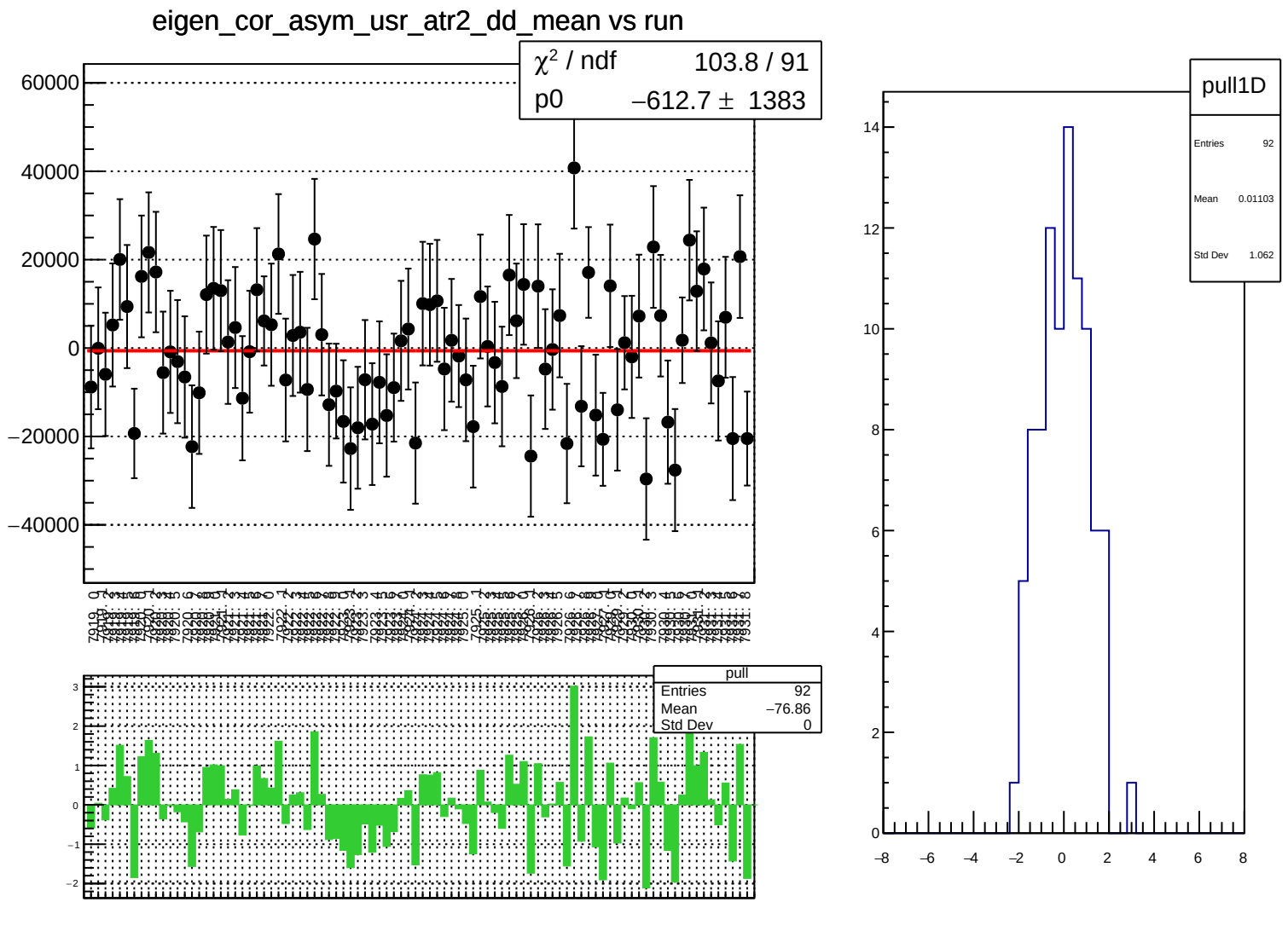

cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 103.8 / 91
p0 −612.7 ± 1383
60000
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −76.86
Std Dev 0
3
2
1
0
−1
−2

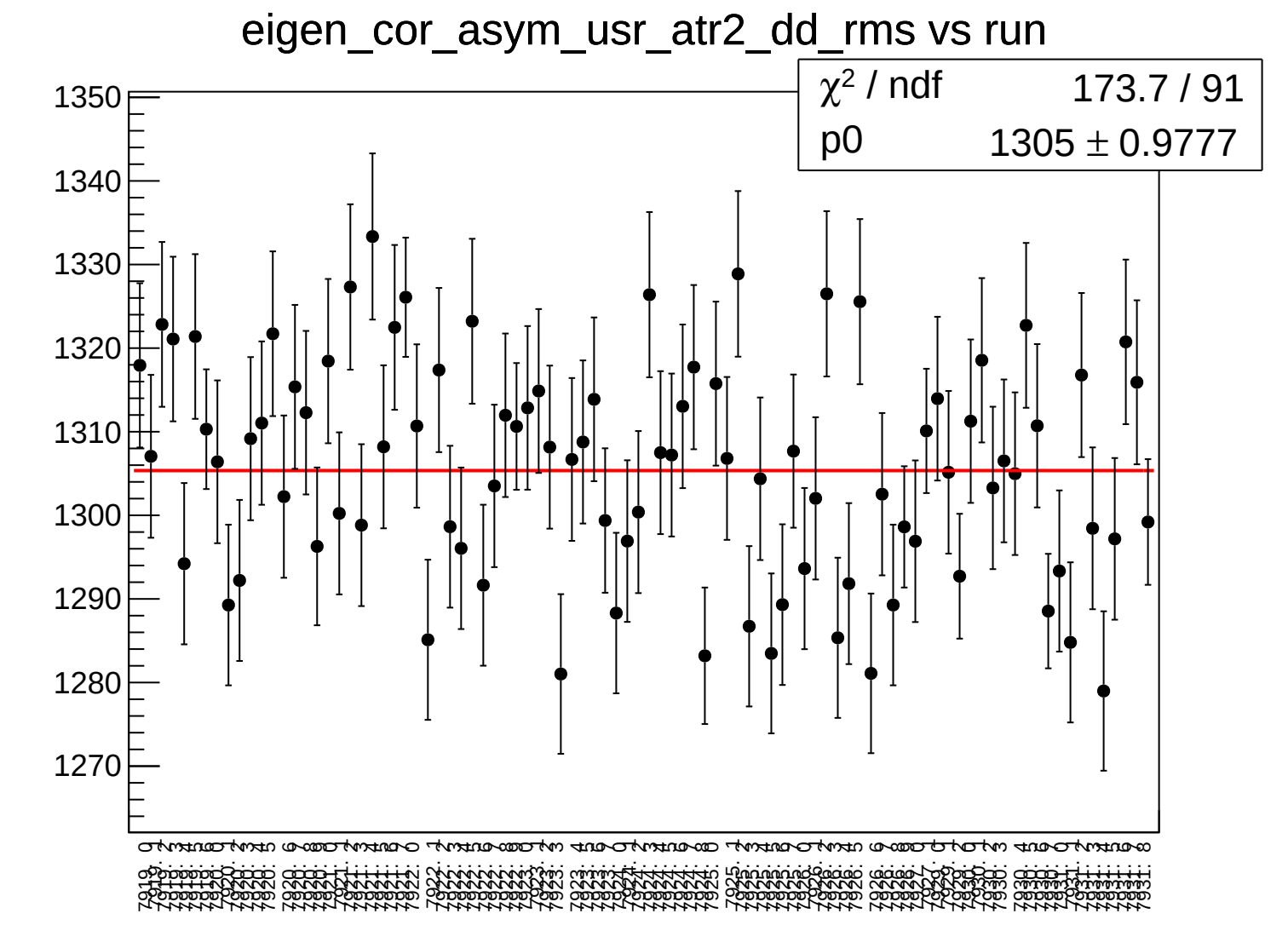

pull1D
Entries 92
Mean 0.01103
Std Dev 1.062
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

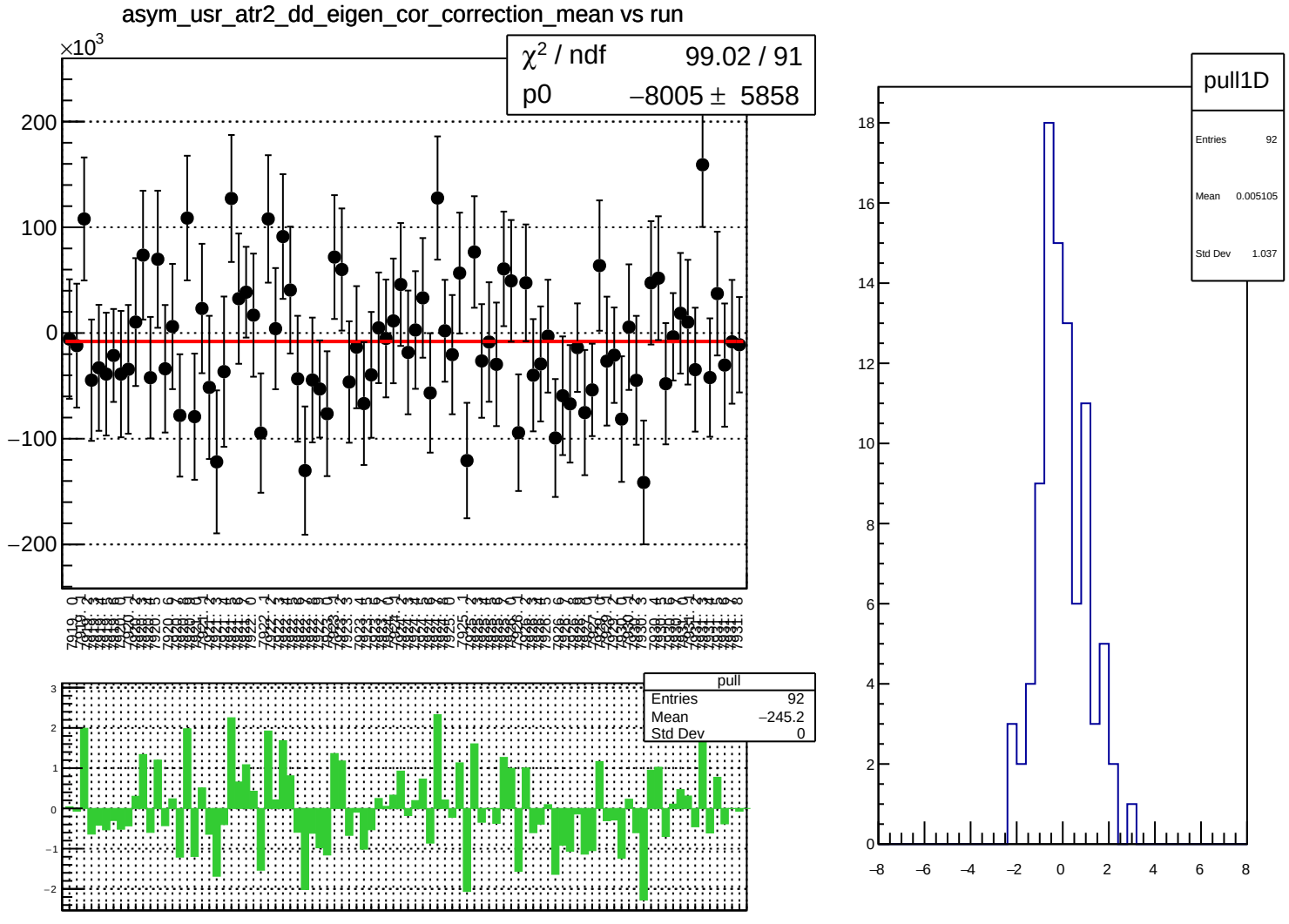

cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 173.7 / 91
p0 1305 ± 0.9777
1350
1340
1330
1320
1310
1300
1290
1280
1270

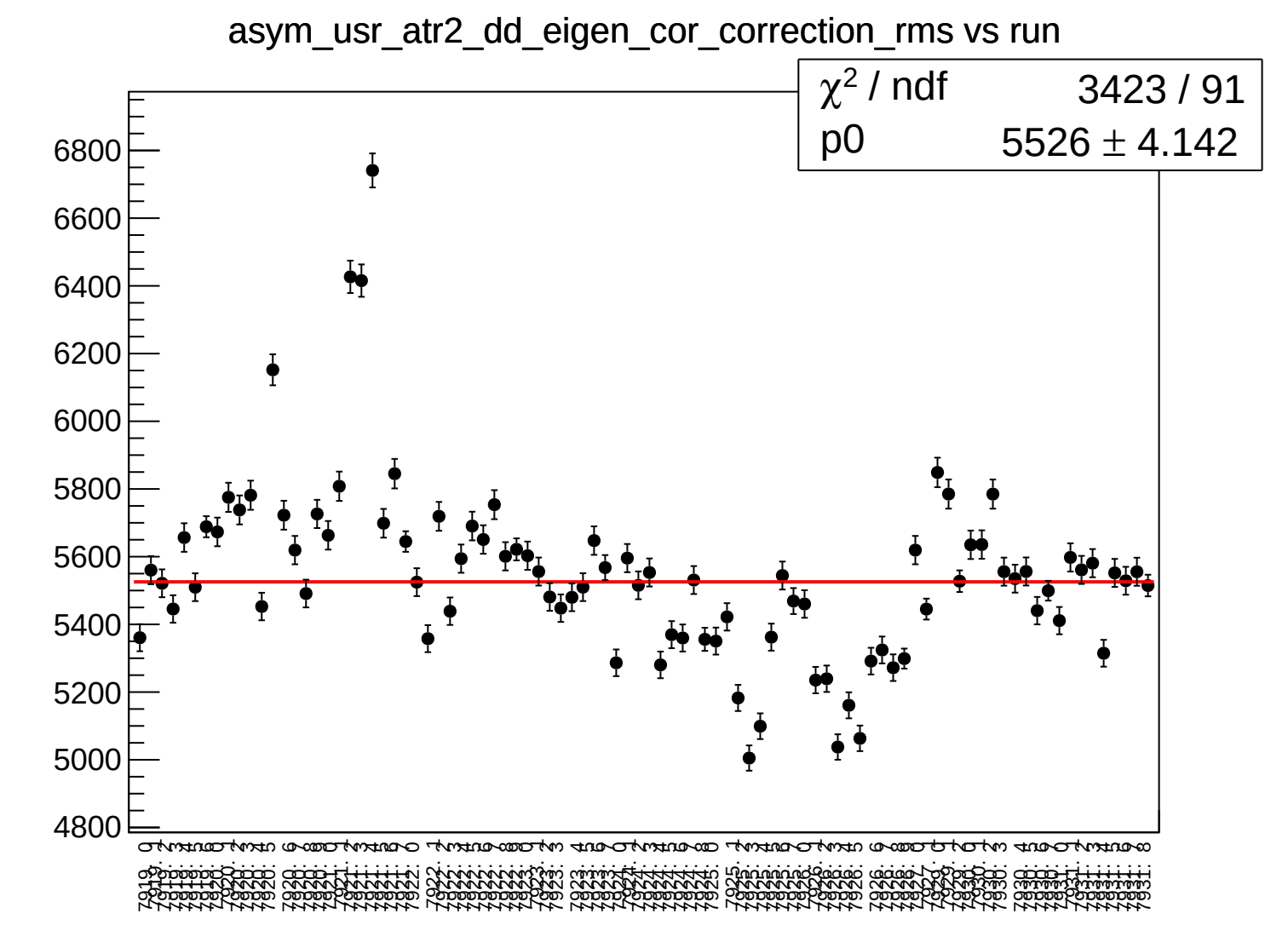

asym_usr_atr2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 99.02 / 91
p0 −8005 ± 5858
200
100
0
−100
−200
pull
Entries 92
Mean −245.2
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.005105
Std Dev 1.037
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

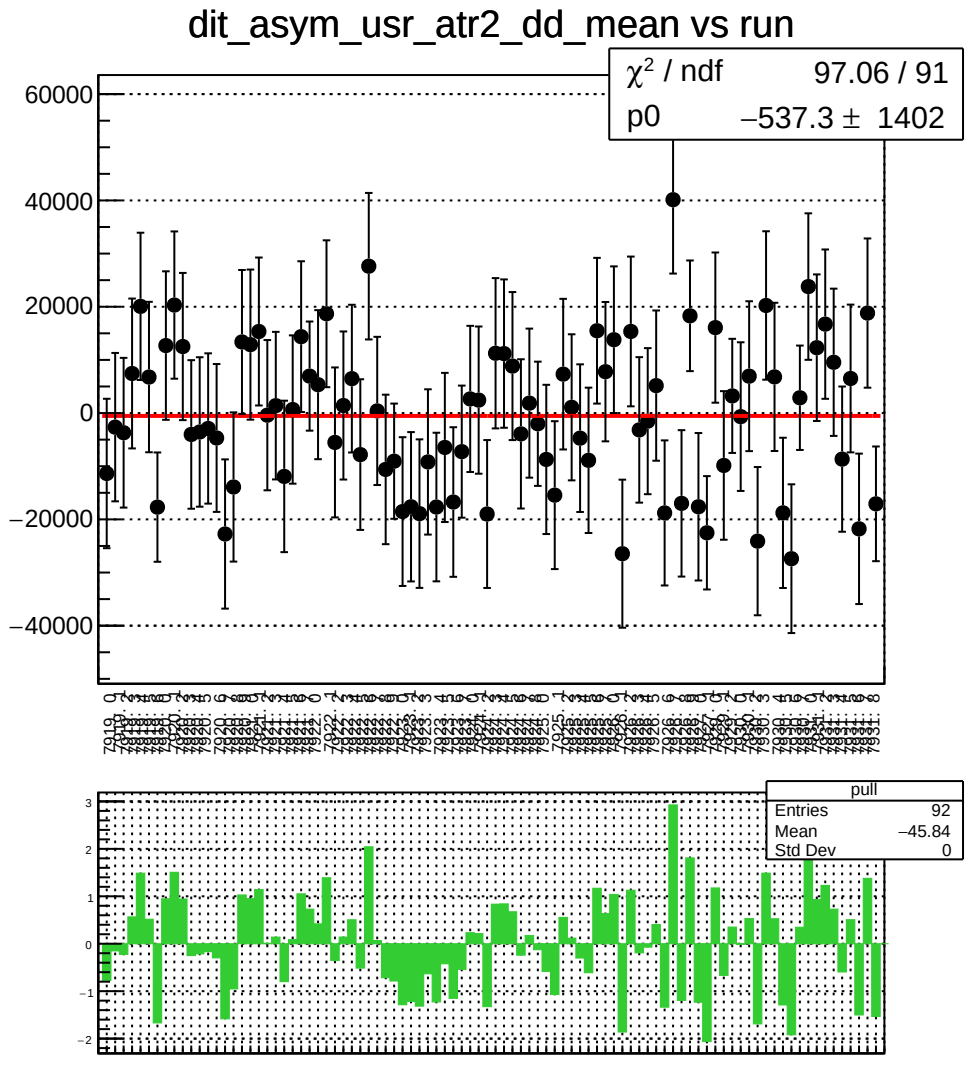

asym_usr_atr2_dd_cor_correction_rms vs run
χ² / ndf 3423 / 91
p0 5526 ± 4.142
6800
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800

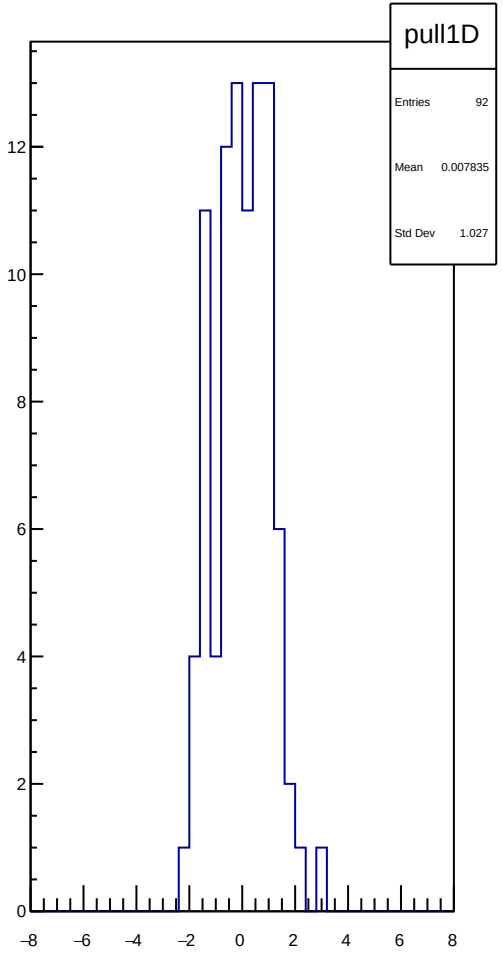

eigen_cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 103.8 / 91
p0 −612.7 ± 1383
60000
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −76.86
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.01103
Std Dev 1.062
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

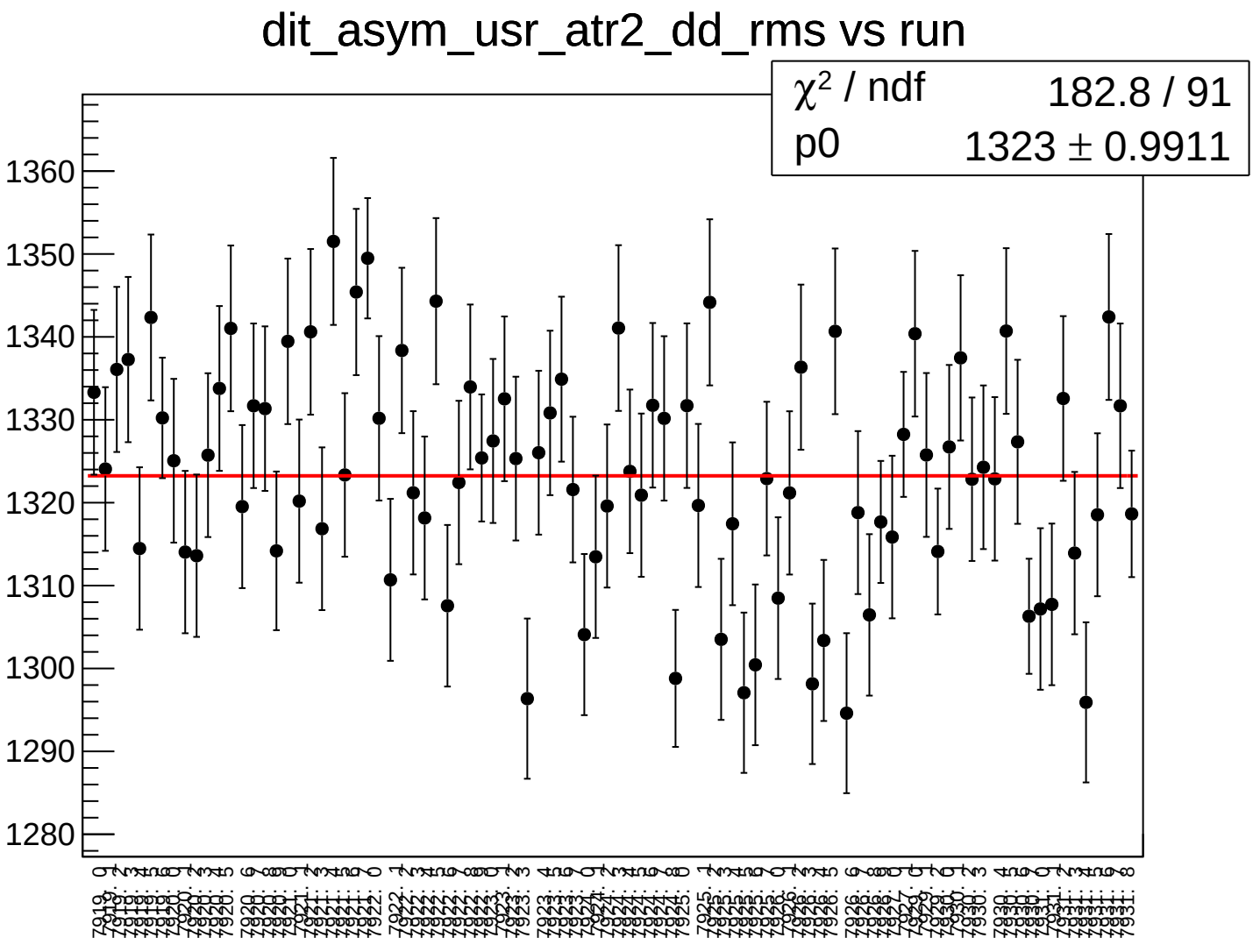

eigen_cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 173.7 / 91
p0 1305 ± 0.9777
1350
1340
1330
1320
1310
1300
1290
1280
1270

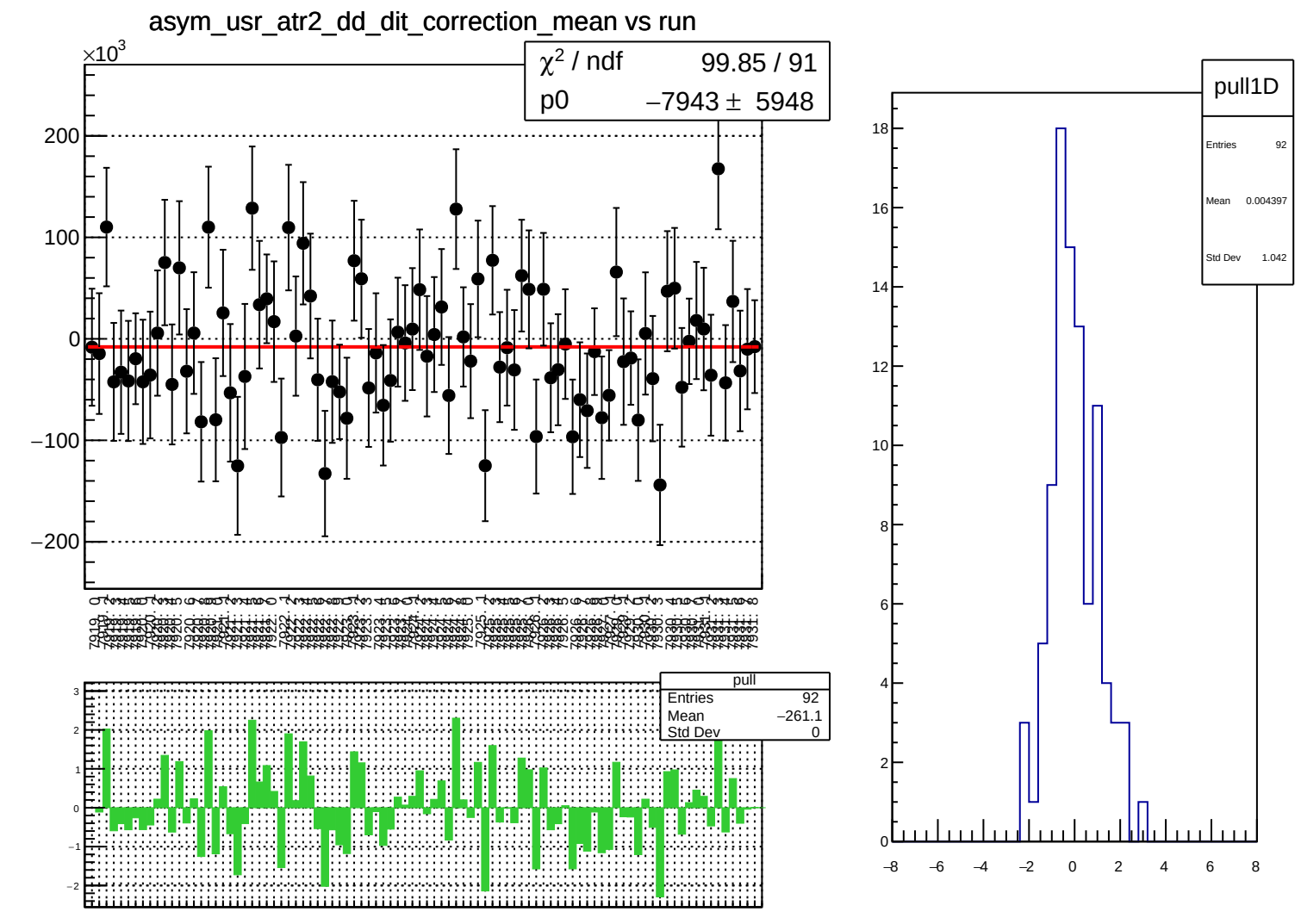

asym_usr_atr2_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 99.02 / 91
p0 −8005 ± 5858
200
100
0
−100
−200
pull
Entries 92
Mean −245.2
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.005105
Std Dev 1.037
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

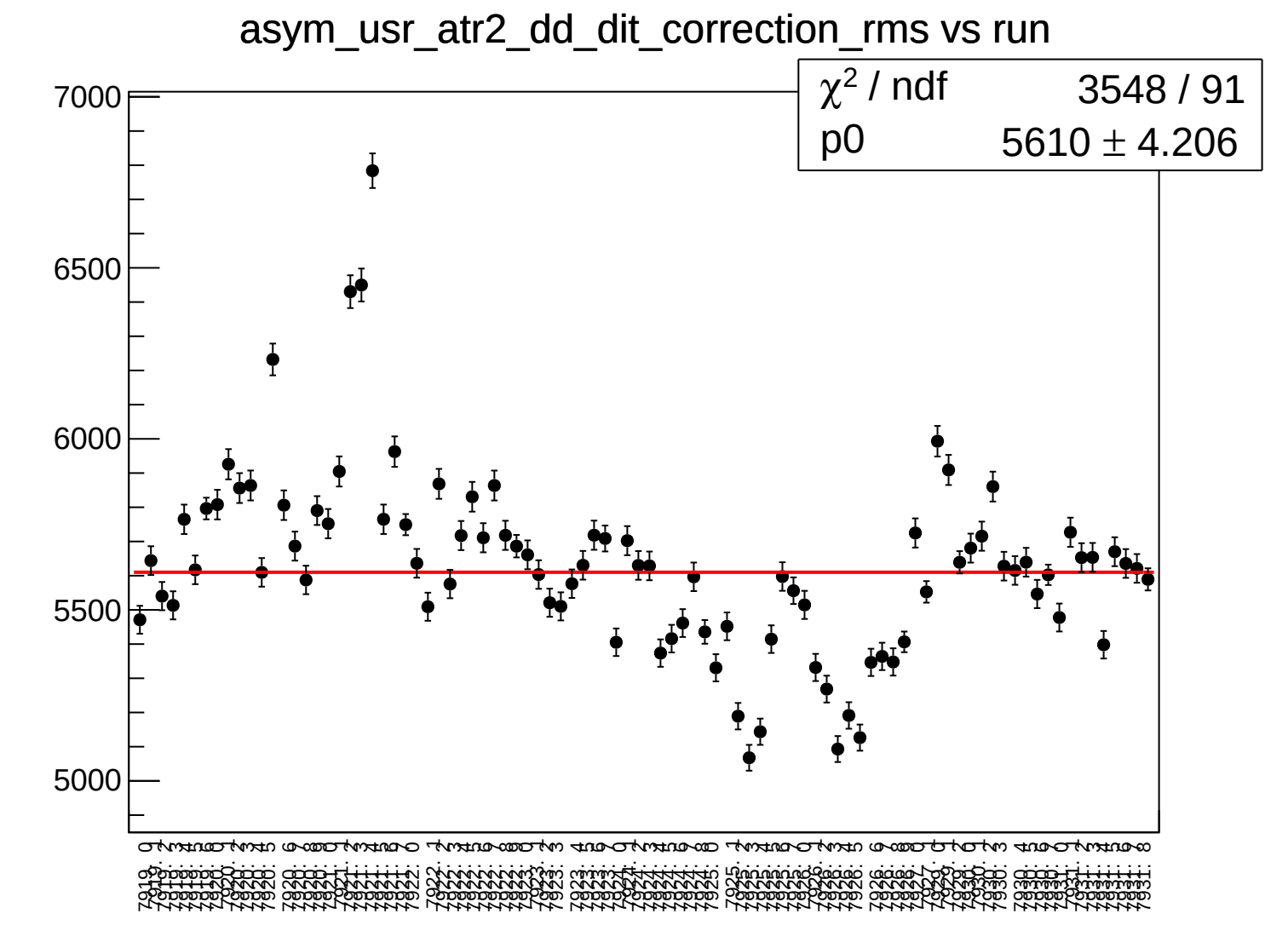

asym_usr_atr2_dd_eigen_cor_correction_rms vs run
χ² / ndf 3423 / 91
p0 5526 ± 4.142
6800
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800

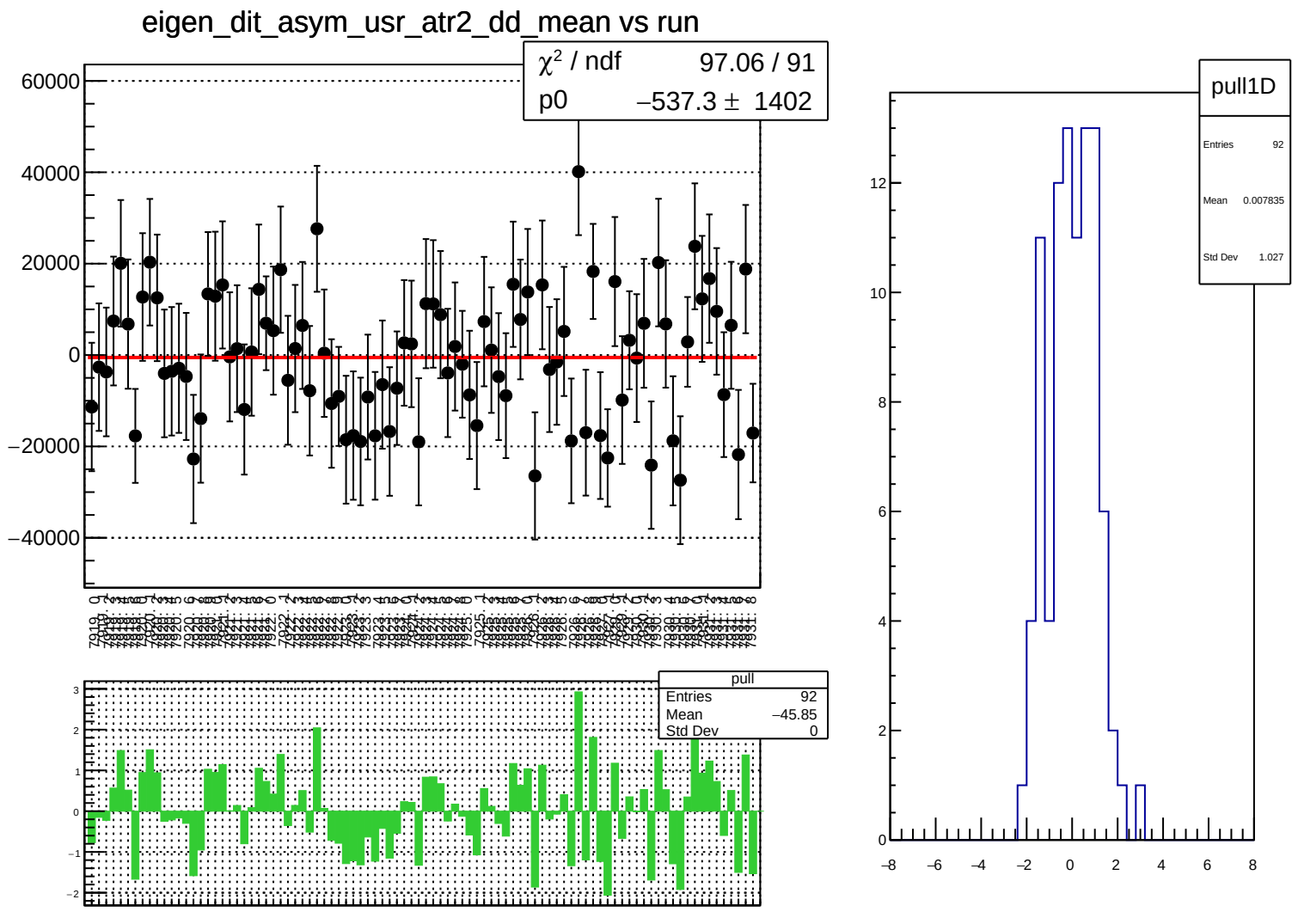

dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 97.06 / 91
p0 −537.3 ± 1402
60000
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −45.84
Std Dev 0
3
2
1
0
−1
−2

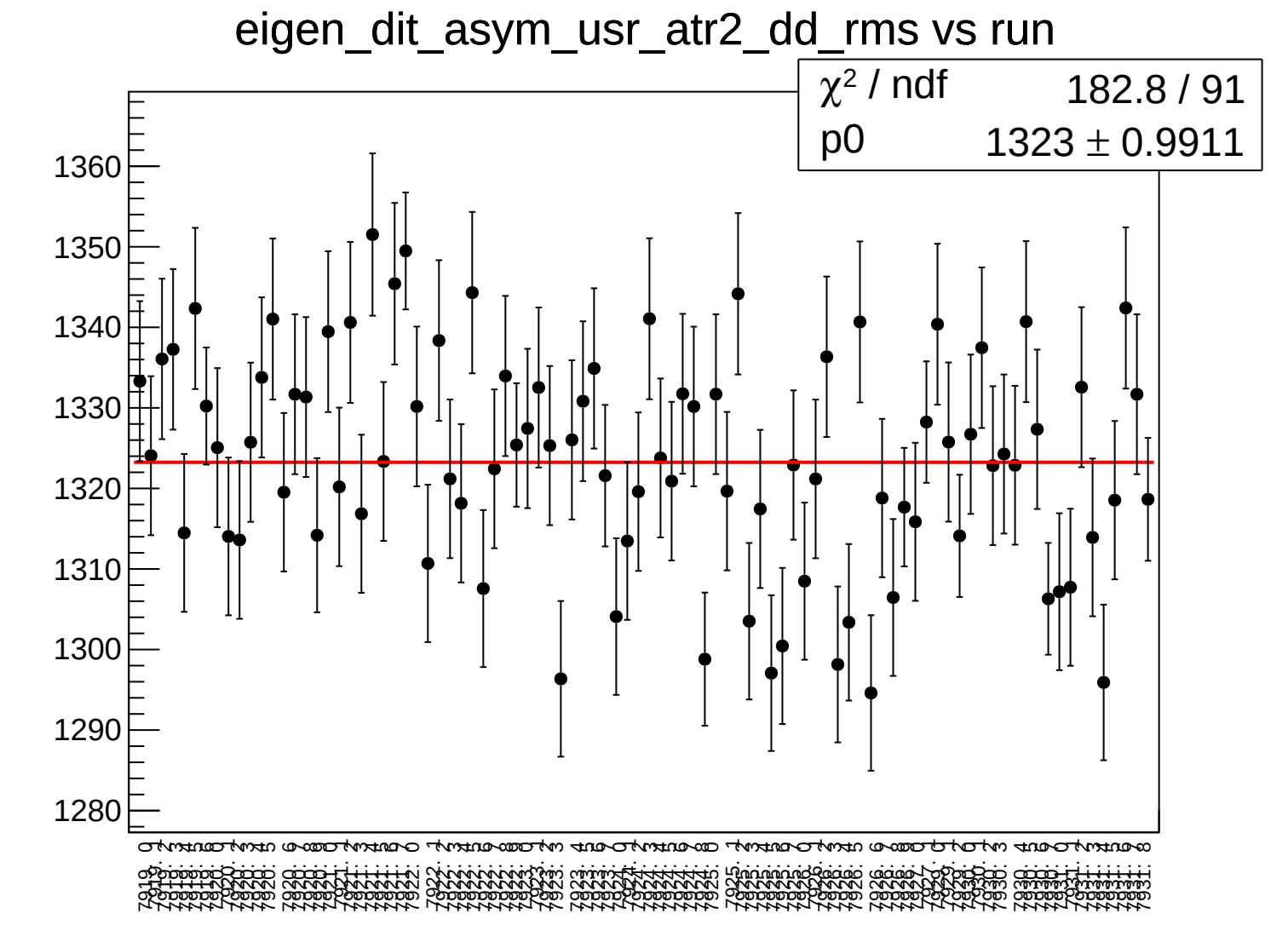

pull1D
Entries 92
Mean 0.007835
Std Dev 1.027
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

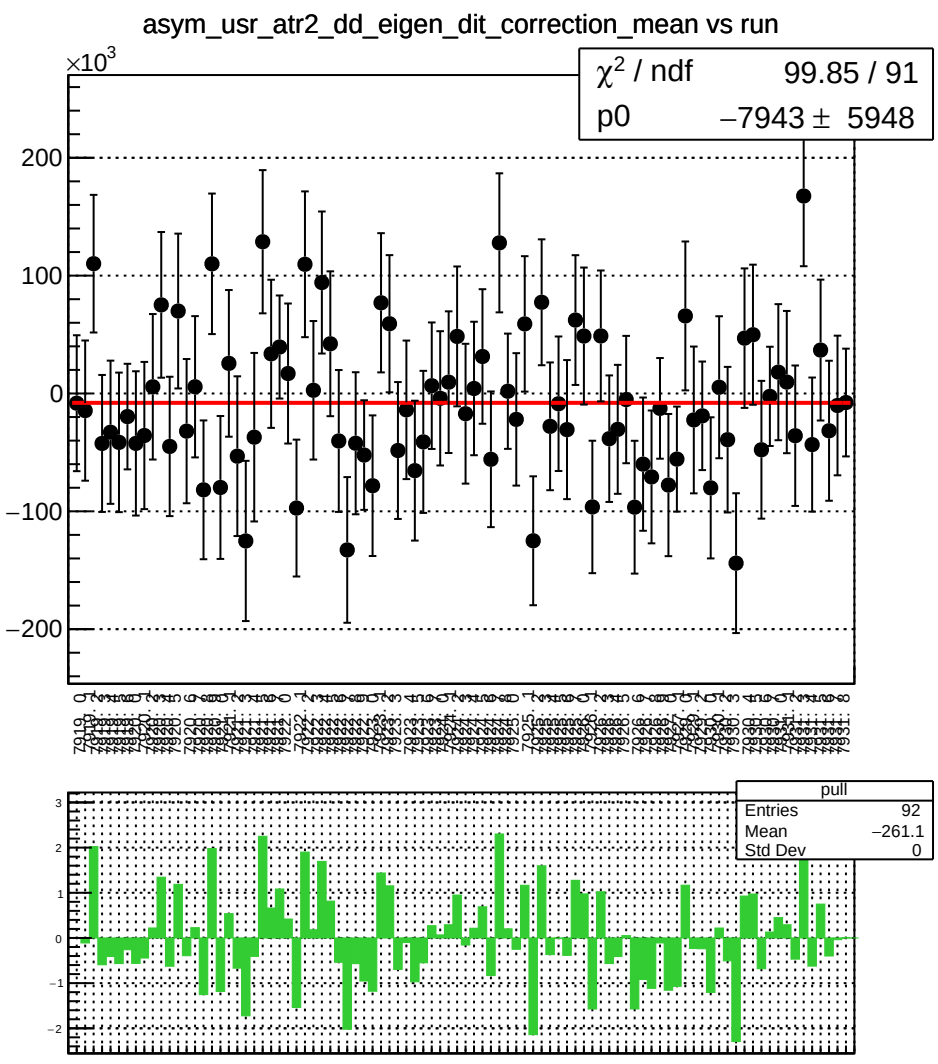

dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 182.8 / 91
p0 1323 ± 0.9911
1360
1350
1340
1330
1320
1310
1300
1290
1280

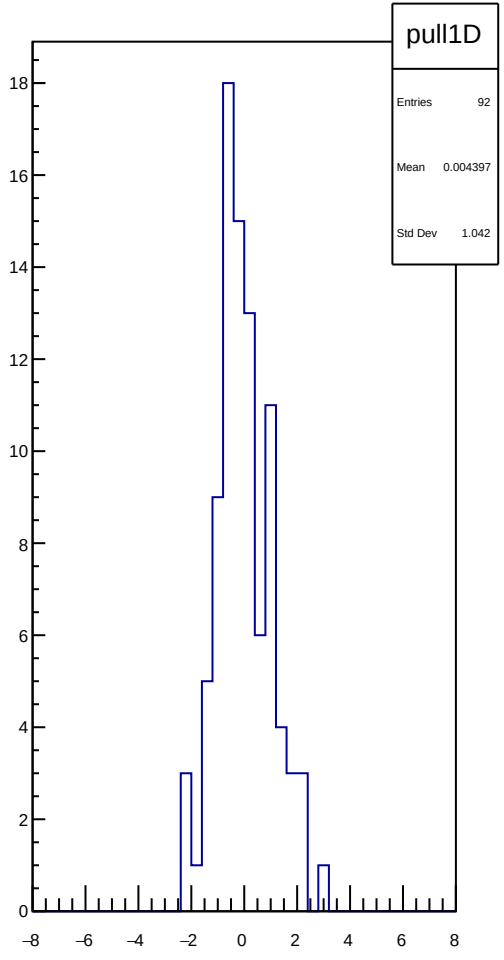

asym_usr_atr2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 99.85 / 91
p0 −7943 ± 5948
200
100
0
−100
−200
pull
Entries 92
Mean −261.1
Std Dev 0
pull1D
Entries 92
Mean 0.004397
Std Dev 1.042

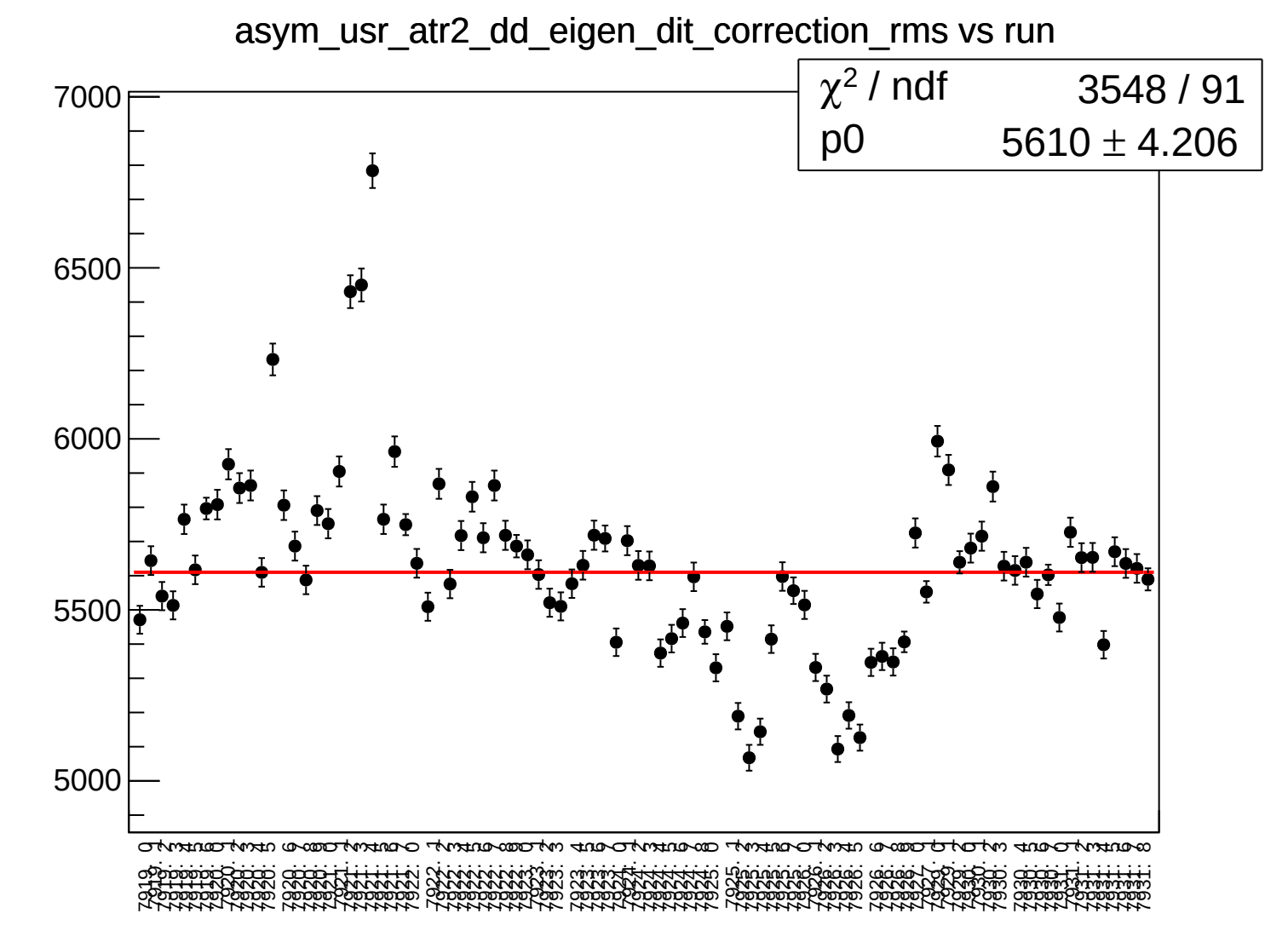

asym_usr_atr2_dd_dit_correction_rms vs run
χ^2 / ndf 3548 / 91
p0 5610 ± 4.206
7000
6500
6000
5500
5000

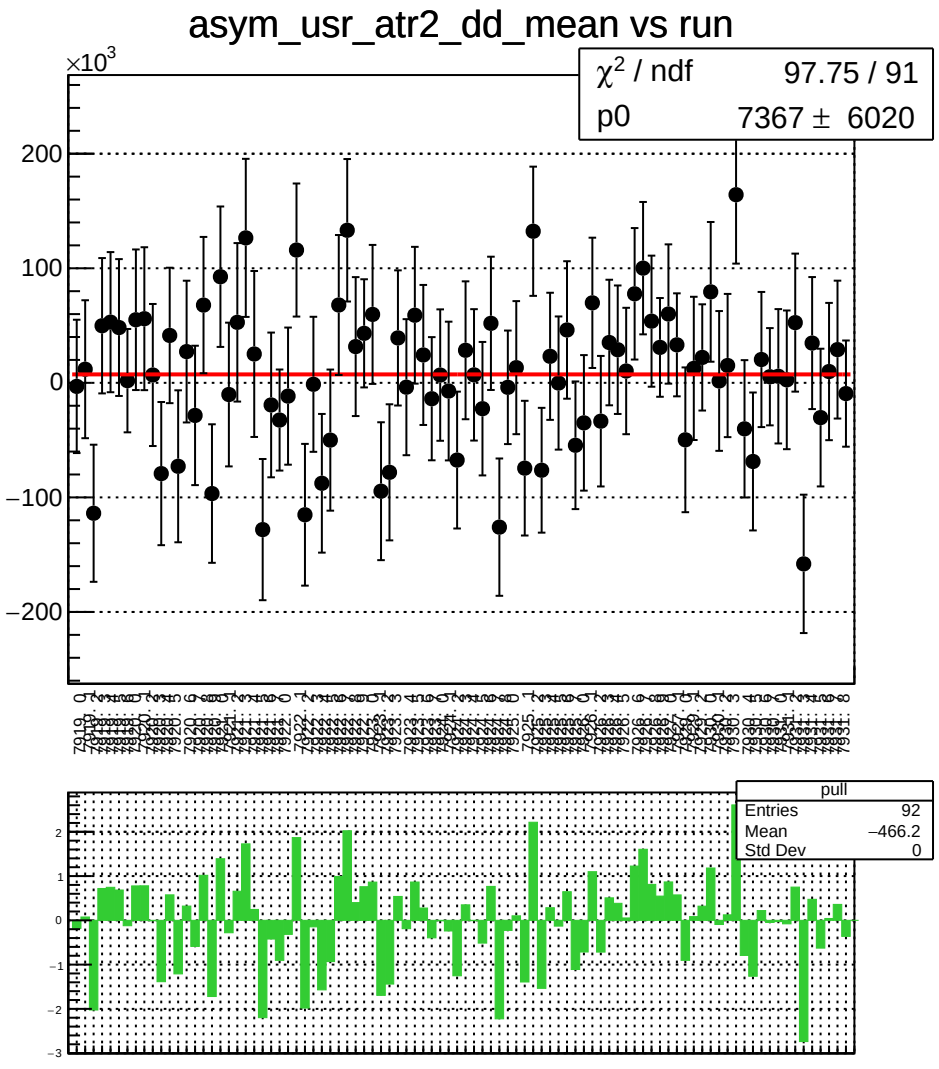

eigen_dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 97.06 / 91
p0 −537.3 ± 1402
60000
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −45.85
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.007835
Std Dev 1.027
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

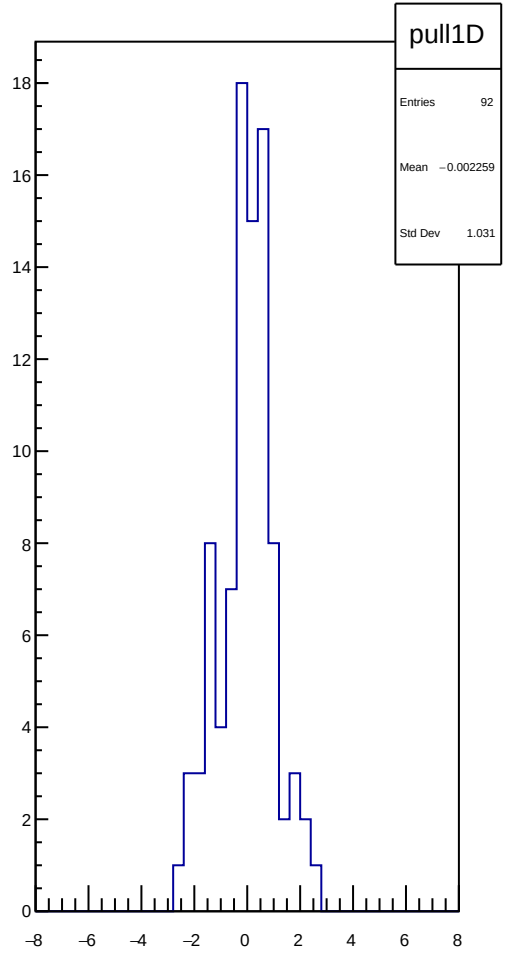

eigen_dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 182.8 / 91
p0 1323 ± 0.9911
1360
1350
1340
1330
1320
1310
1300
1290
1280

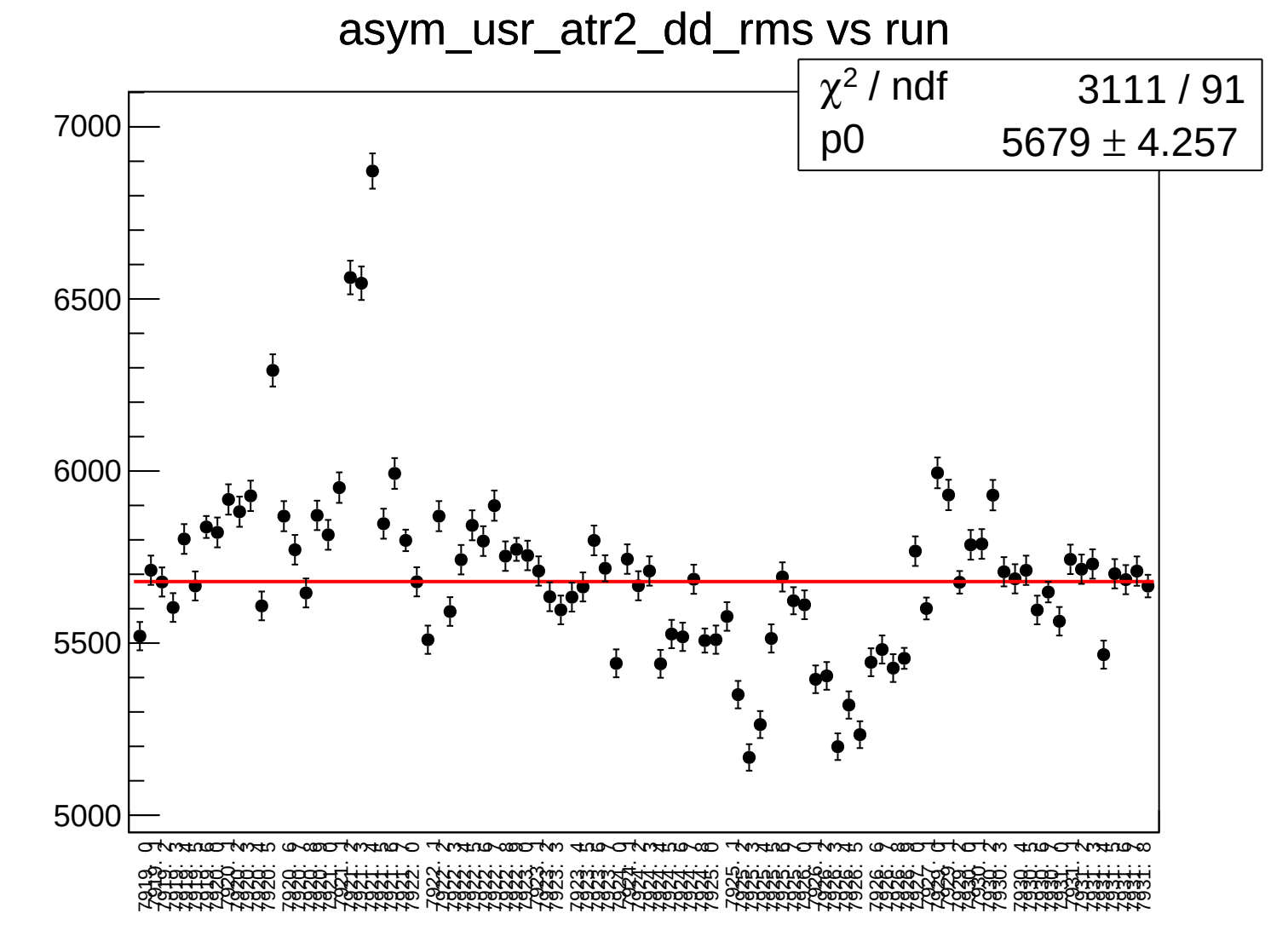

asym_usr_atr2_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 99.85 / 91
p0 −7943 ± 5948
200
100
0
−100
−200
pull
Entries 92
Mean −261.1
Std Dev 0
3
2
1
0
−1
−2

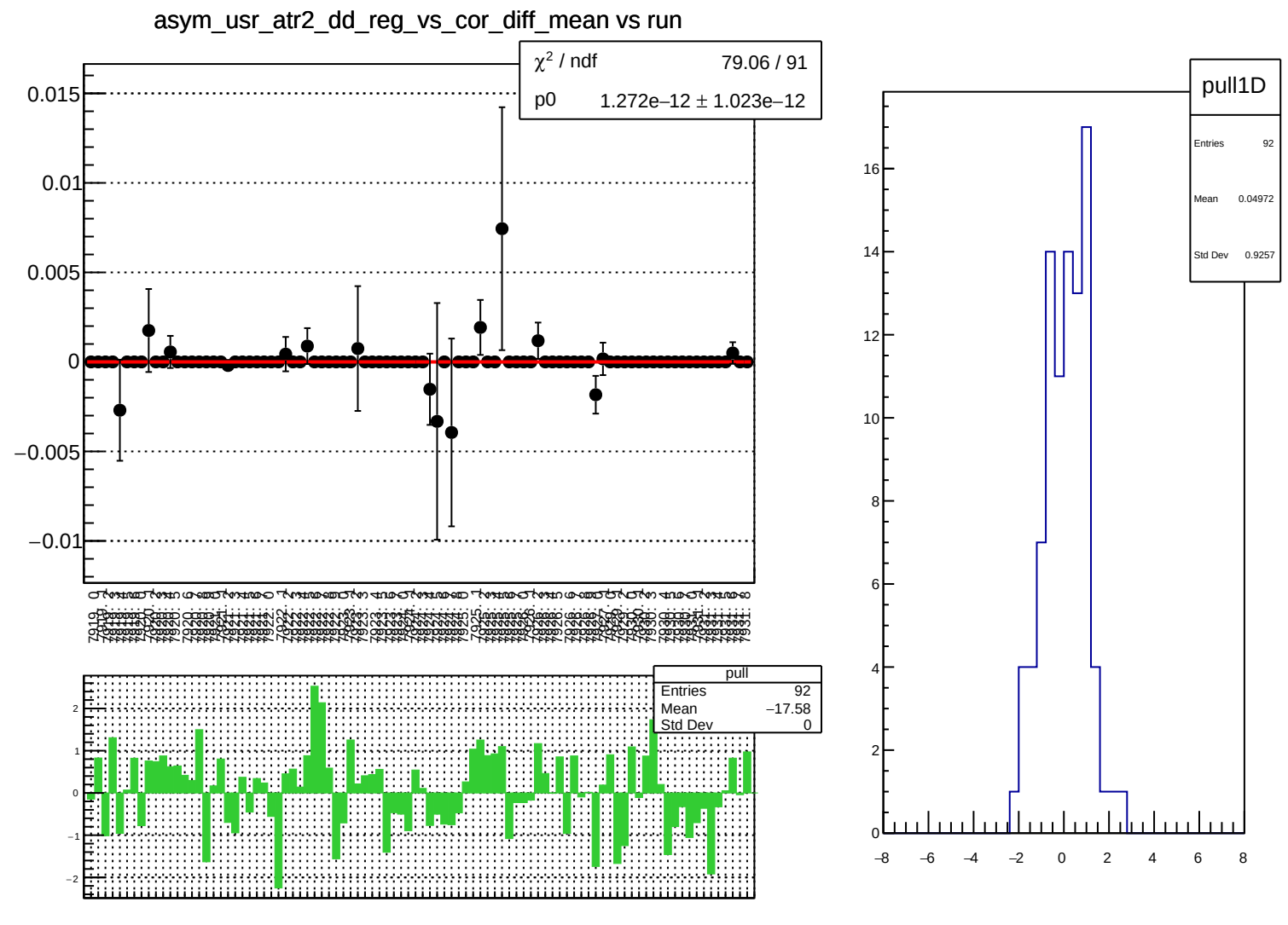

pull1D
Entries 92
Mean 0.004397
Std Dev 1.042
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

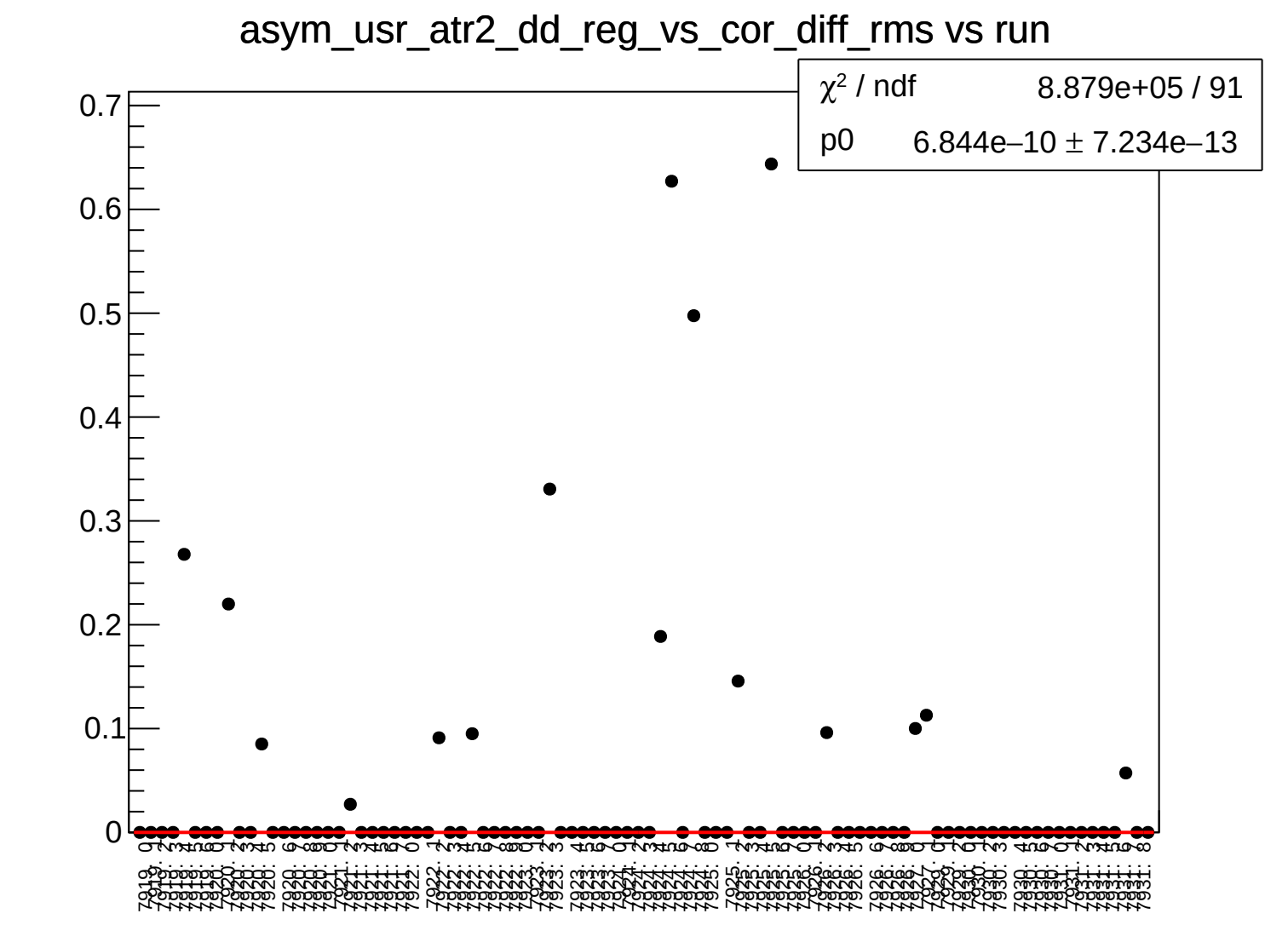

asym_usr_atr2_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 3548 / 91
p0 5610 ± 4.206
7000
6500
6000
5500
5000

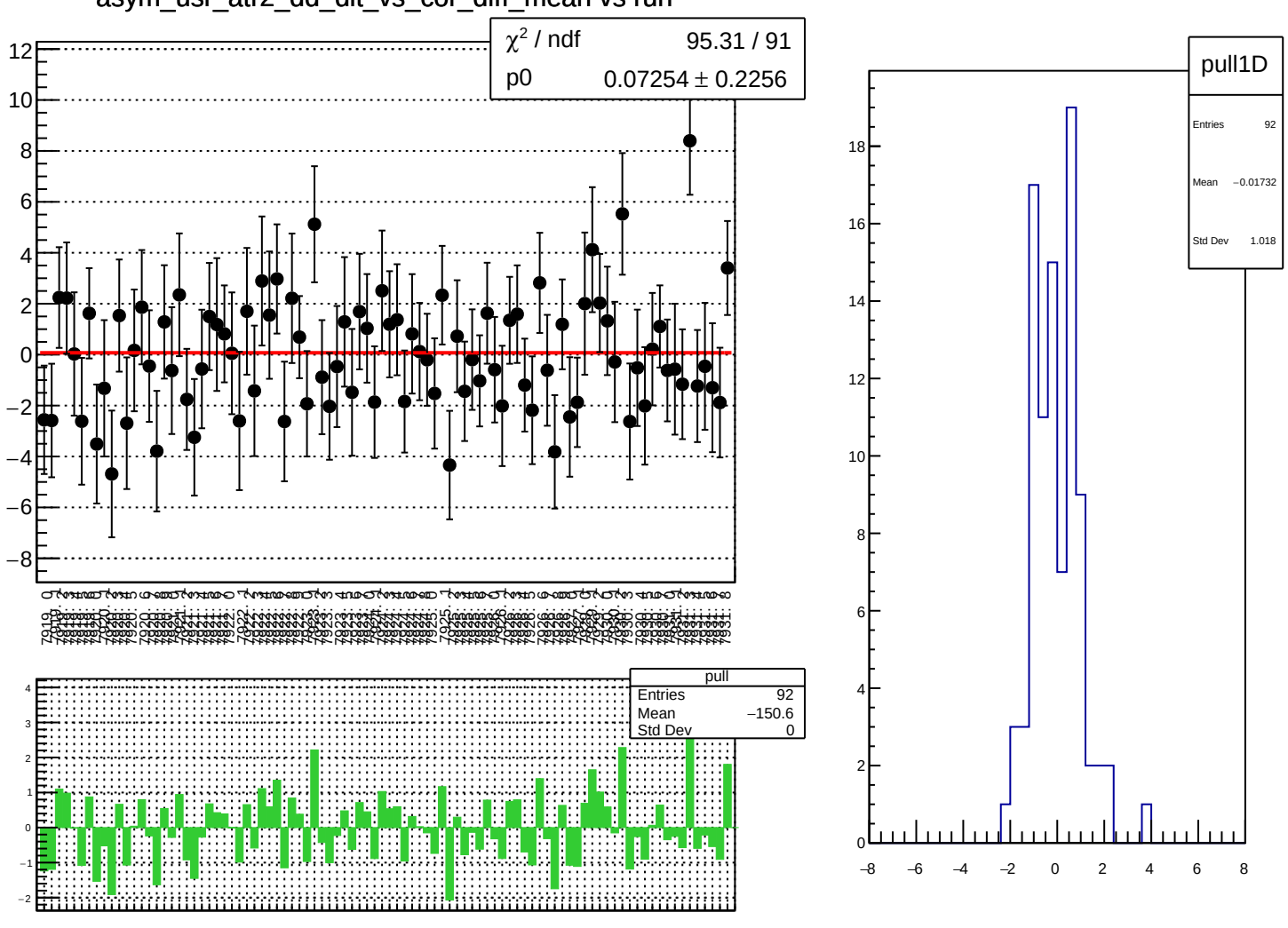

asym_usr_atr2_dd_mean vs run
×10^3
χ² / ndf 97.75 / 91
p0 7367 ± 6020
200
100
0
−100
−200
pull
Entries 92
Mean −466.2
Std Dev 0
2
1
0
−1
−2
−3

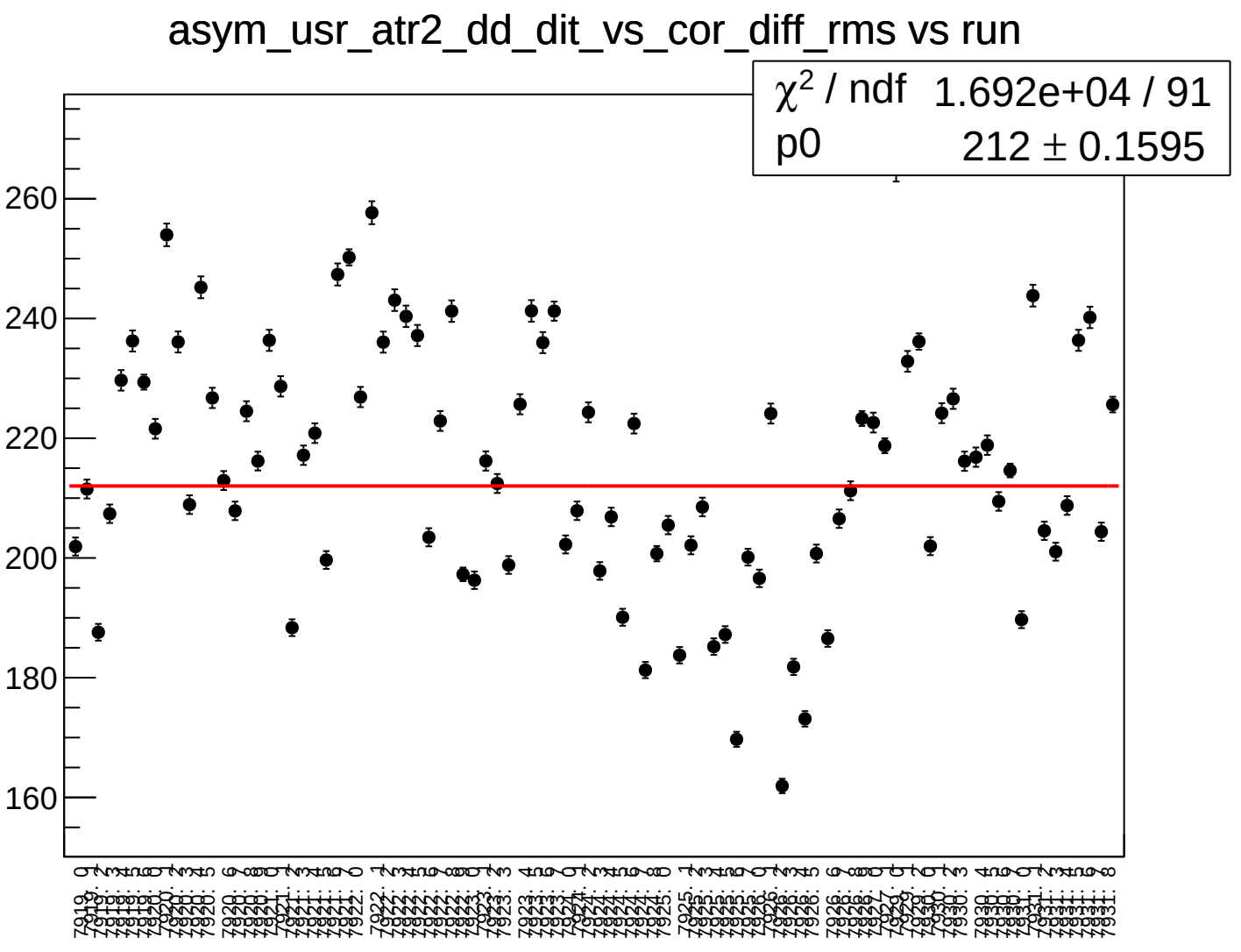

pull1D
Entries 92
Mean −0.002259
Std Dev 1.031
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

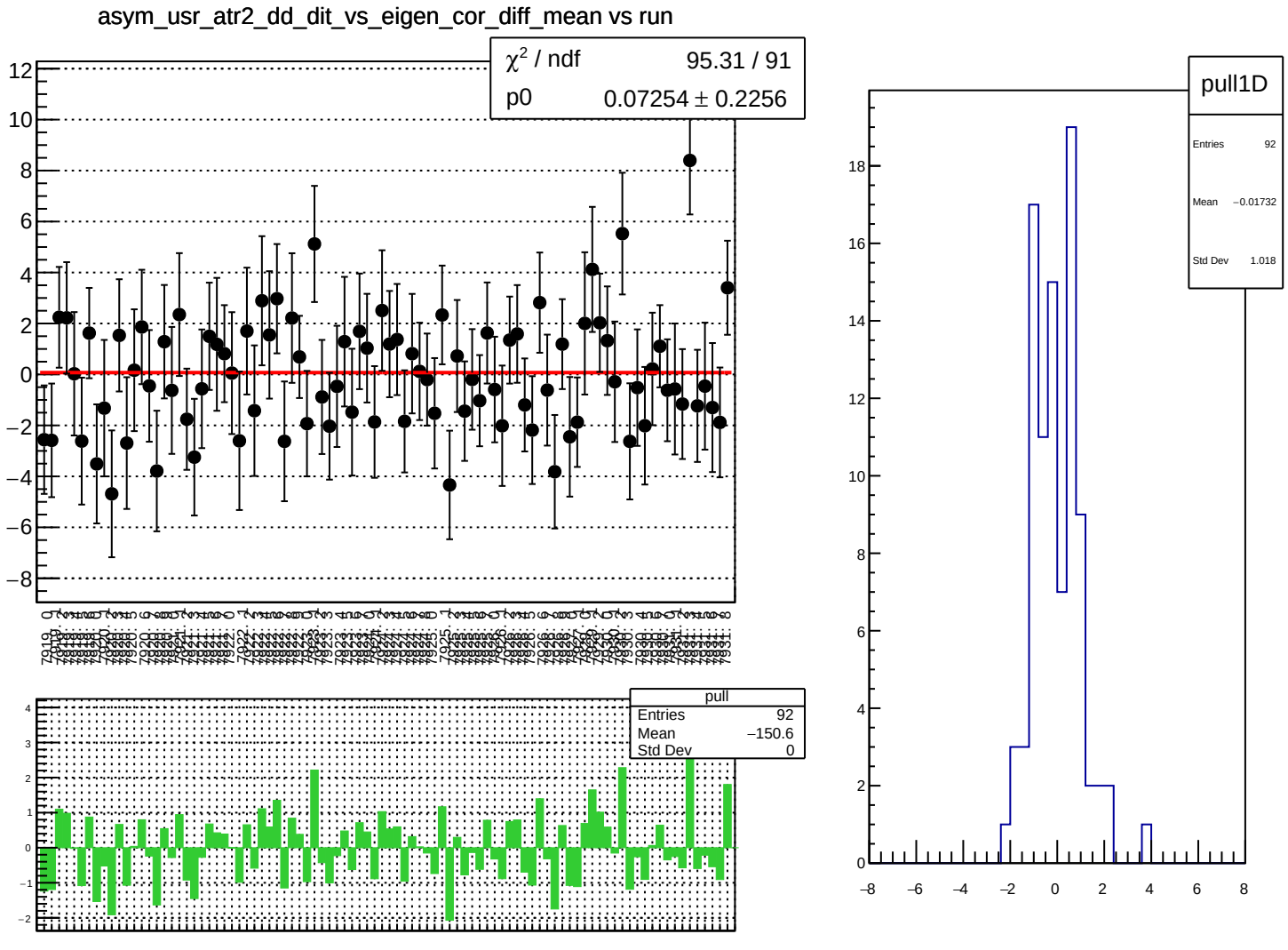

asym_usr_atr2_dd_rms vs run
χ^2 / ndf 3111 / 91
p0 5679 ± 4.257
7000
6500
6000
5500
5000

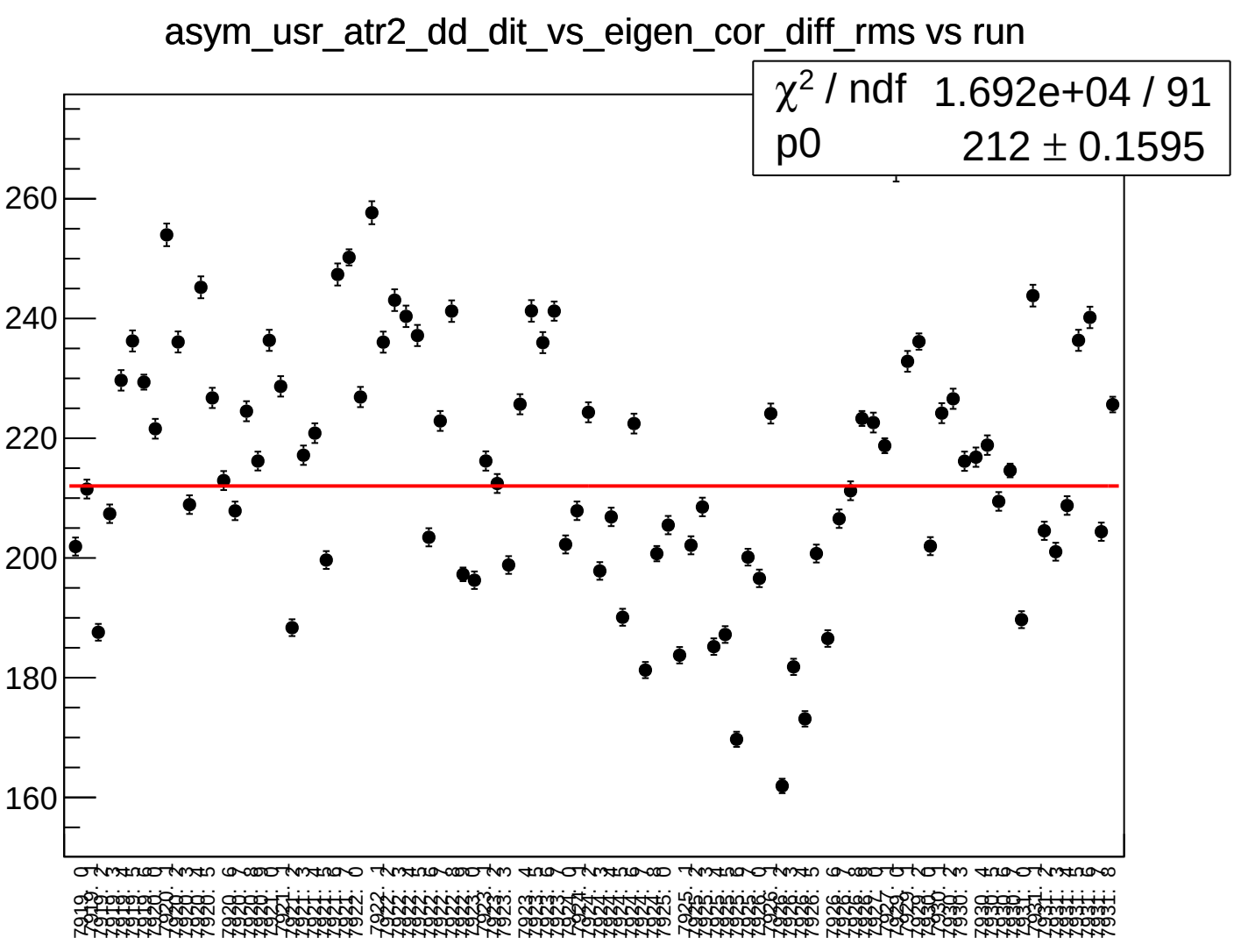

asym_usr_atr2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 79.06 / 91
p0 1.272e−12 ± 1.023e−12
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 92
Mean −17.58
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.04972
Std Dev 0.9257
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

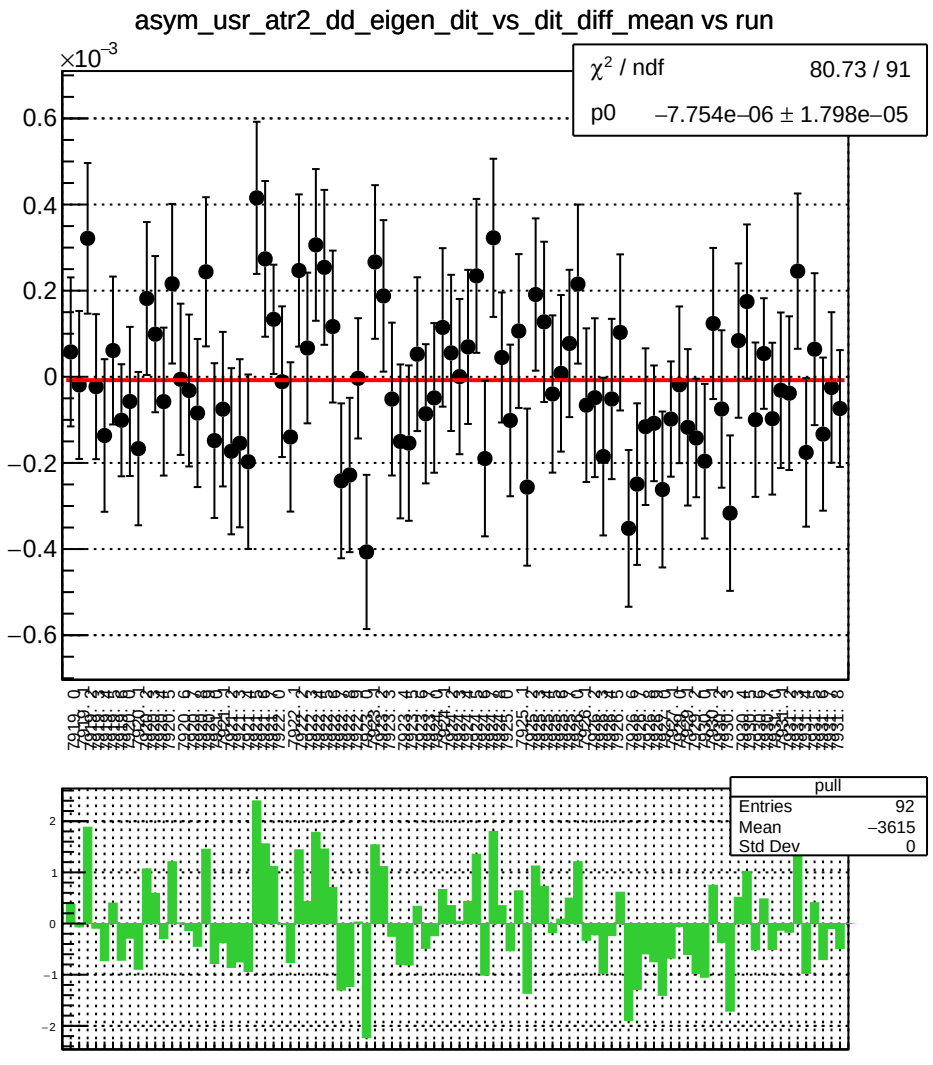

asym_usr_atr2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.879e+05 / 91
p0 6.844e−10 ± 7.234e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

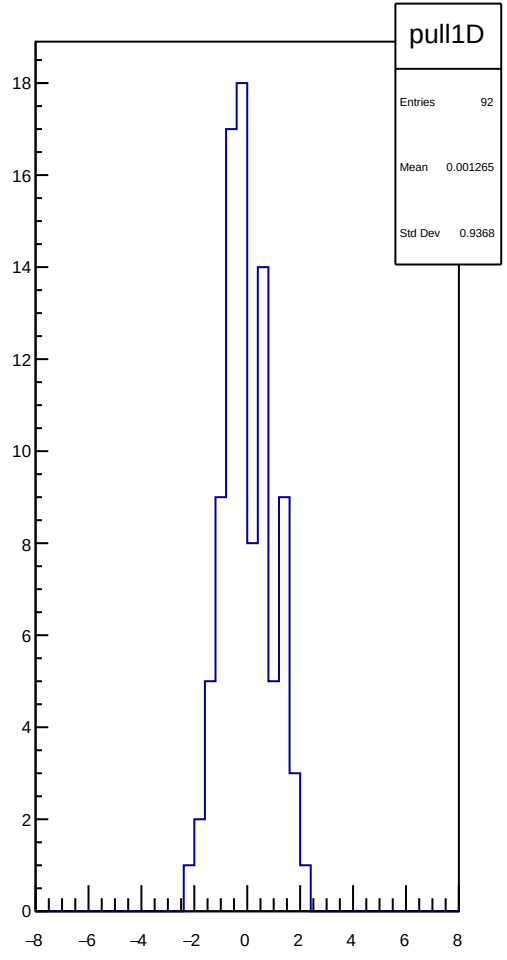

asym_usr_atr2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 95.31 / 91
p0 0.07254 ± 0.2256
pull
Entries 92
Mean −150.6
Std Dev 0
pull1D
Entries 92
Mean −0.01732
Std Dev 1.018

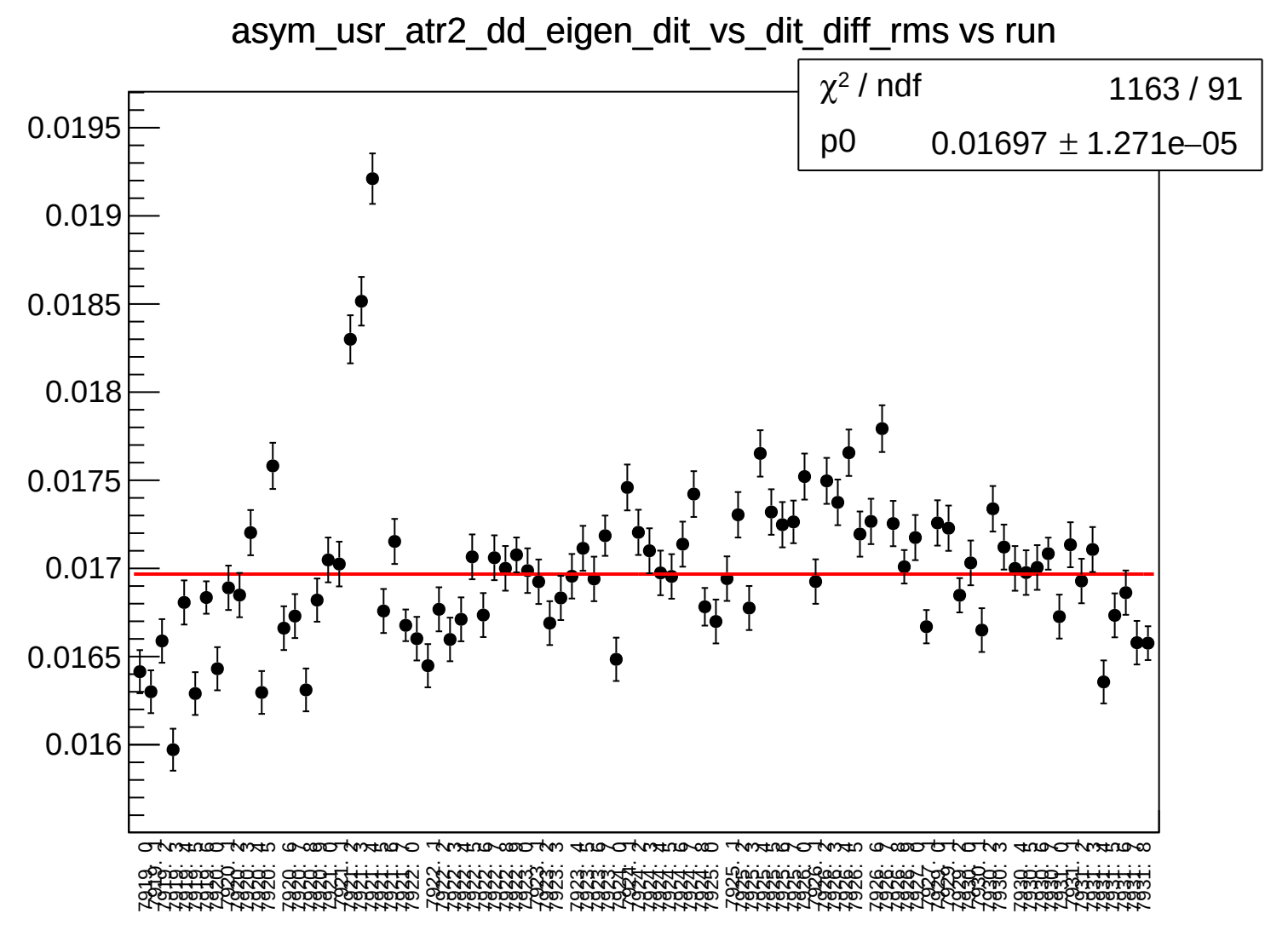

asym_usr_atr2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.692e+04 / 91
p0 212 ± 0.1595
260
240
220
200
180
160

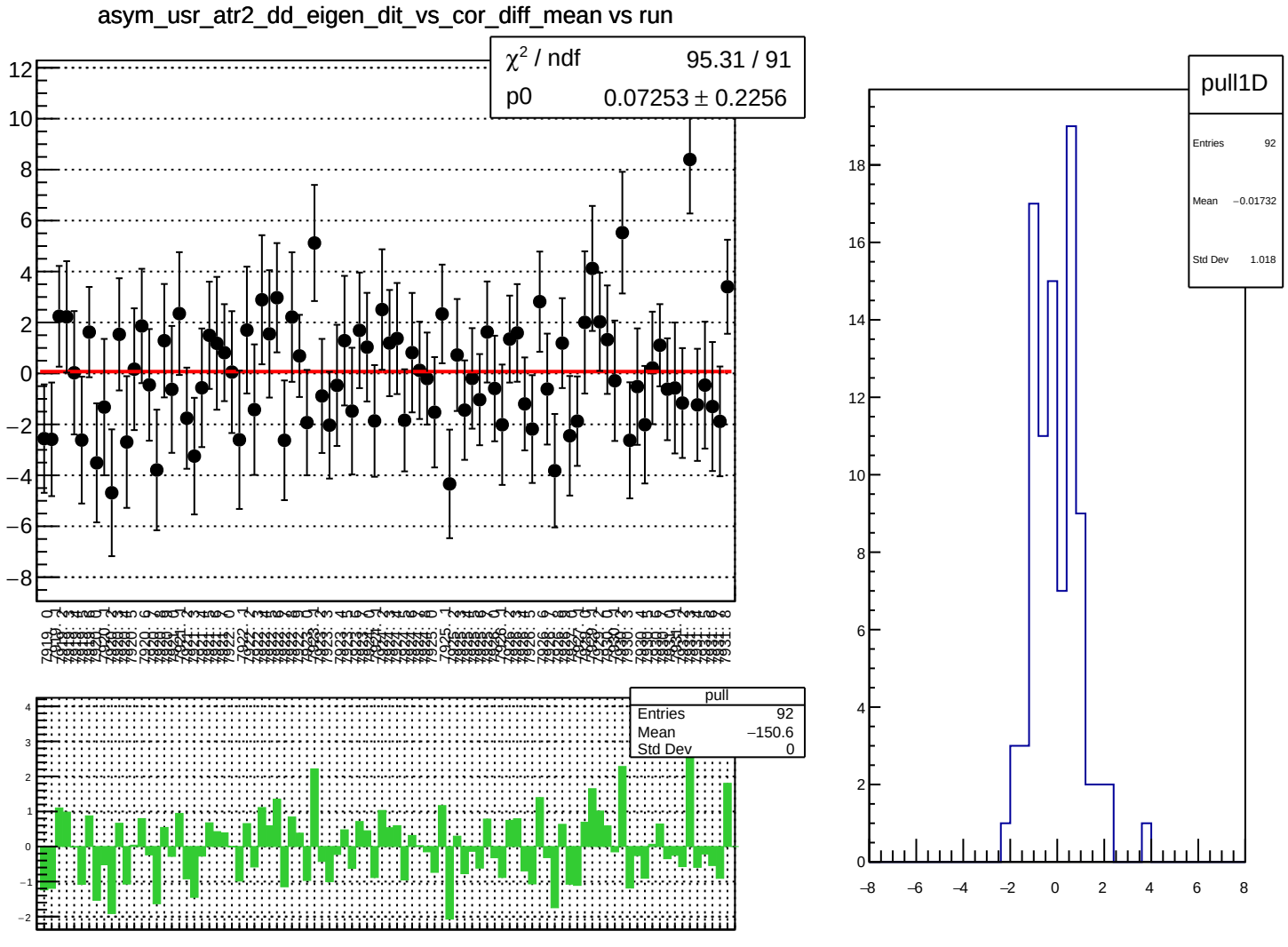

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.31 / 91
p0 0.07254 ± 0.2256
pull
Entries 92
Mean −150.6
Std Dev 0
pull1D
Entries 92
Mean −0.01732
Std Dev 1.018

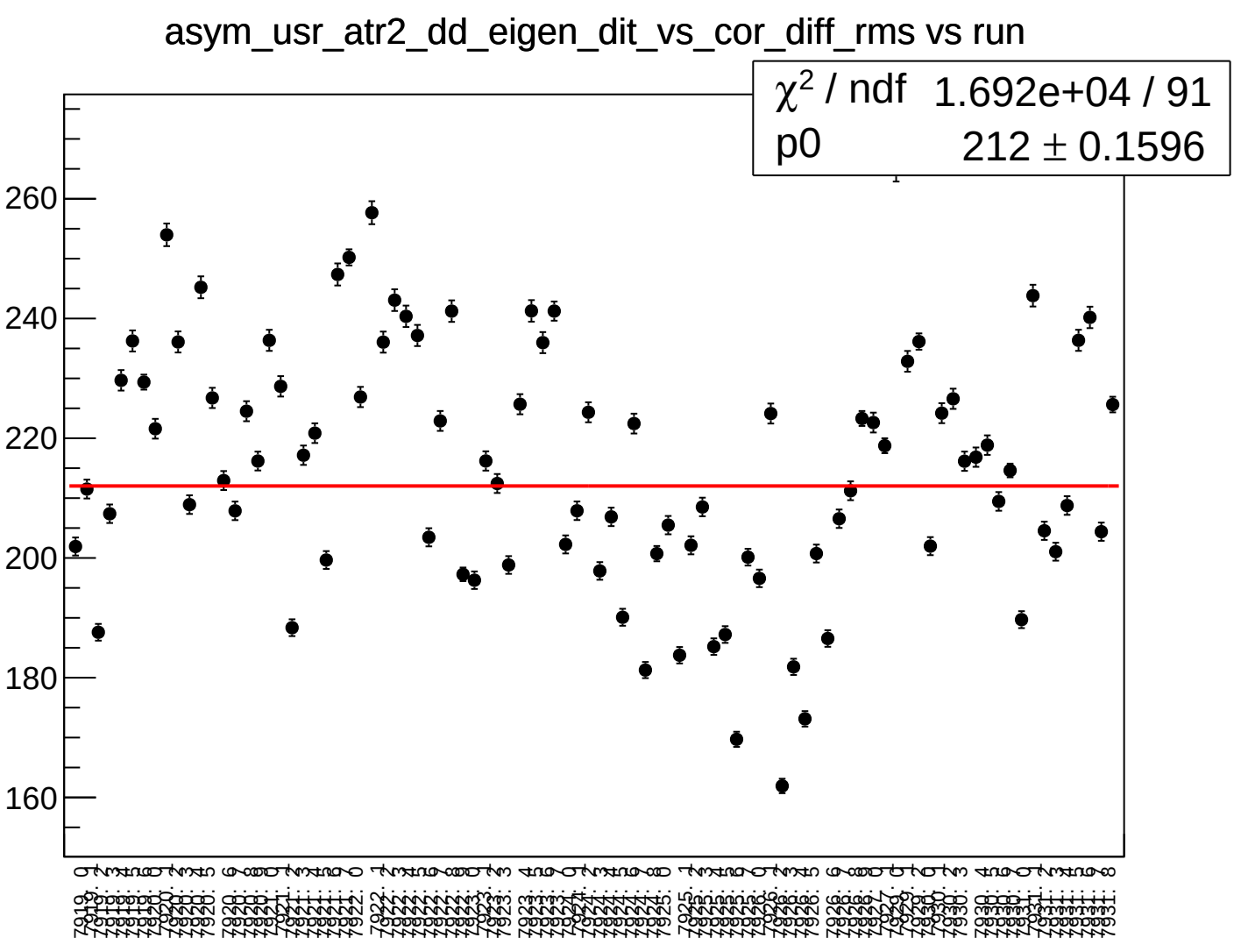

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.692e+04 / 91
p0 212 ± 0.1595
260
240
220
200
180
160

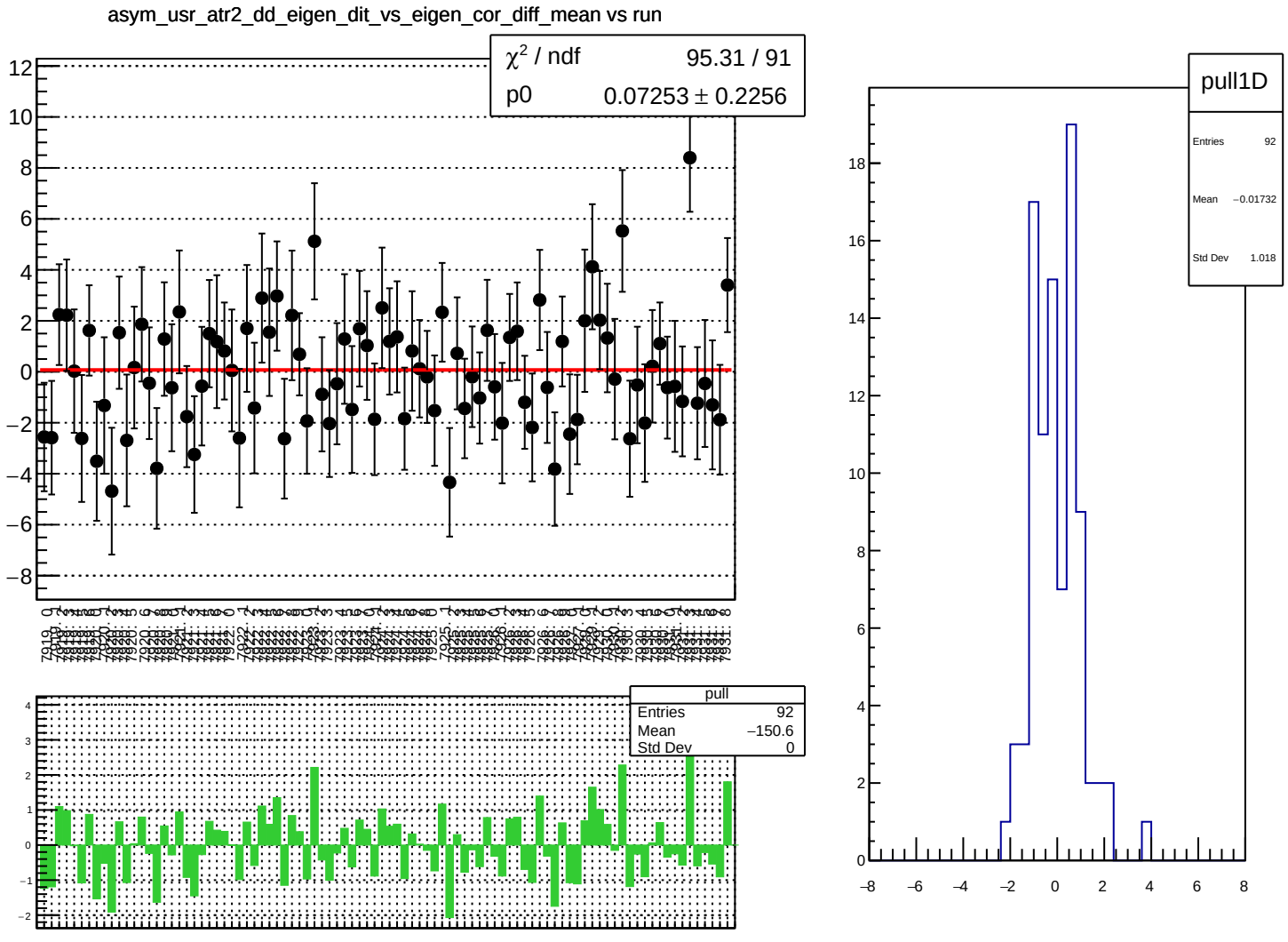

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 80.73 / 91
p0 −7.754e−06 ± 1.798e−05
pull
Entries 92
Mean −3615
Std Dev 0

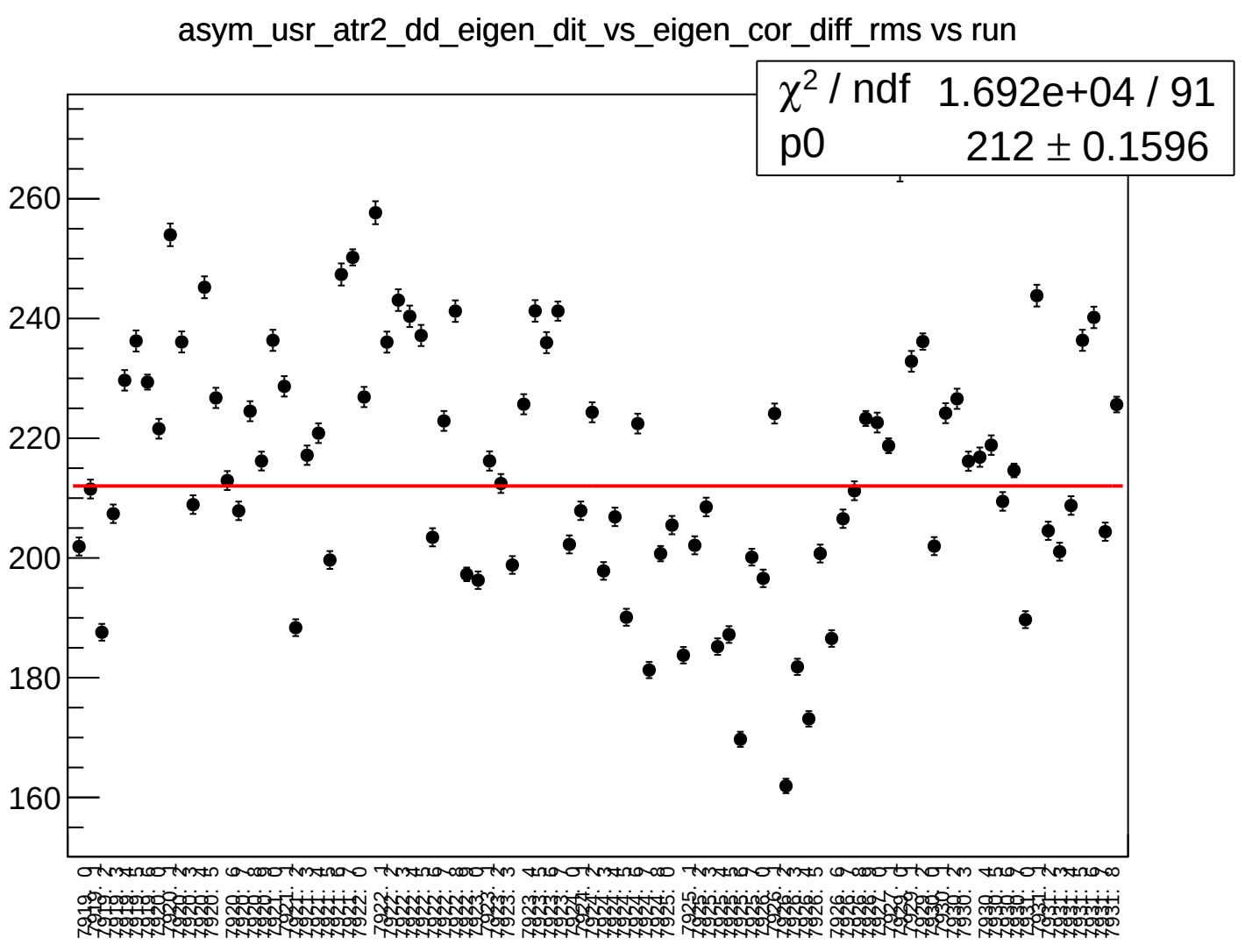

pull1D
Entries 92
Mean 0.001265
Std Dev 0.9368

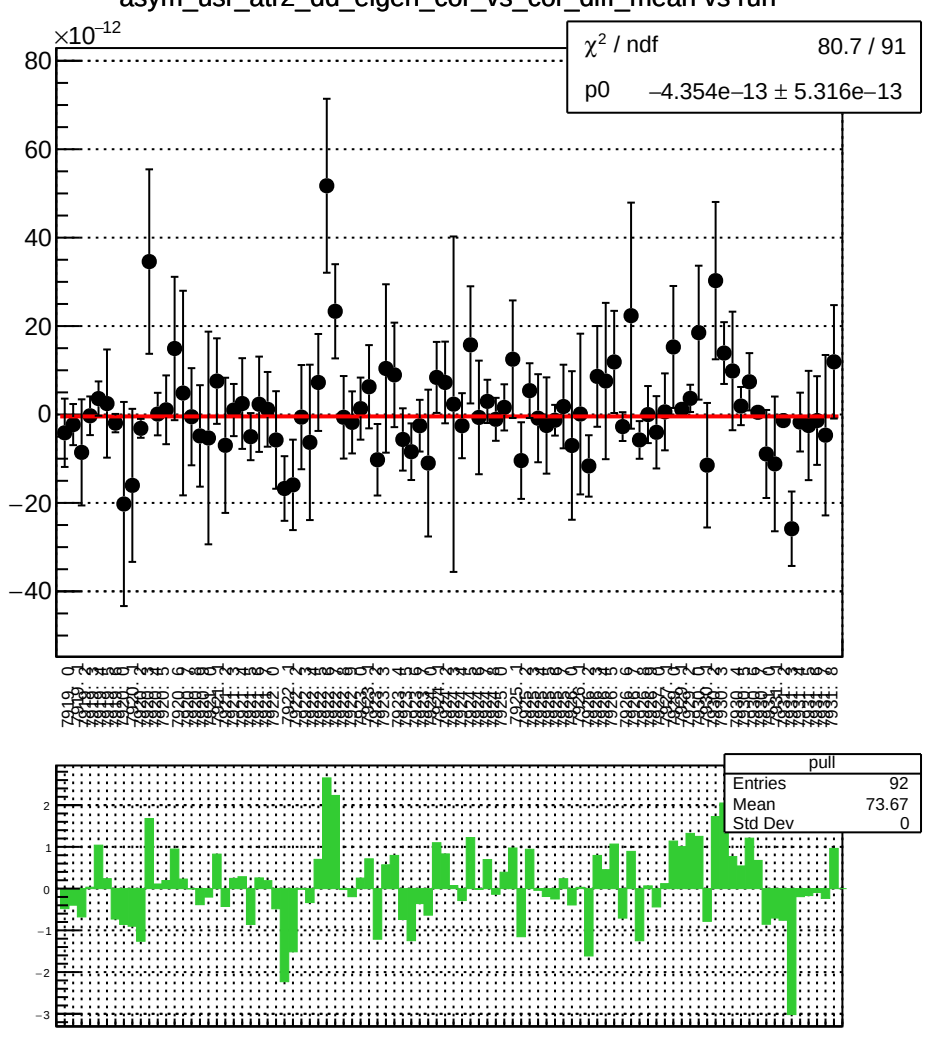

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1163 / 91
p0 0.01697 ± 1.271e−05
0.0195
0.019
0.0185
0.018
0.0175
0.017
0.0165
0.016

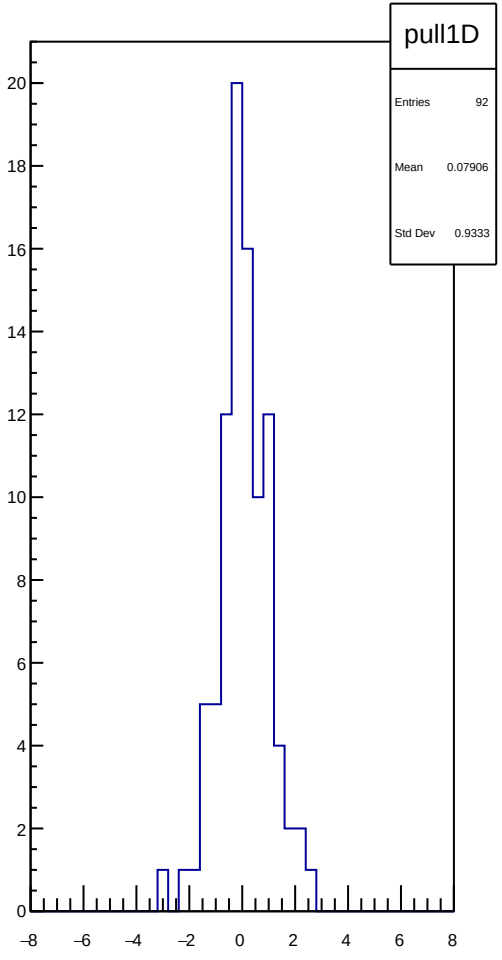

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.31 / 91
p0 0.07253 ± 0.2256
pull
Entries 92
Mean −150.6
Std Dev 0
pull1D
Entries 92
Mean −0.01732
Std Dev 1.018

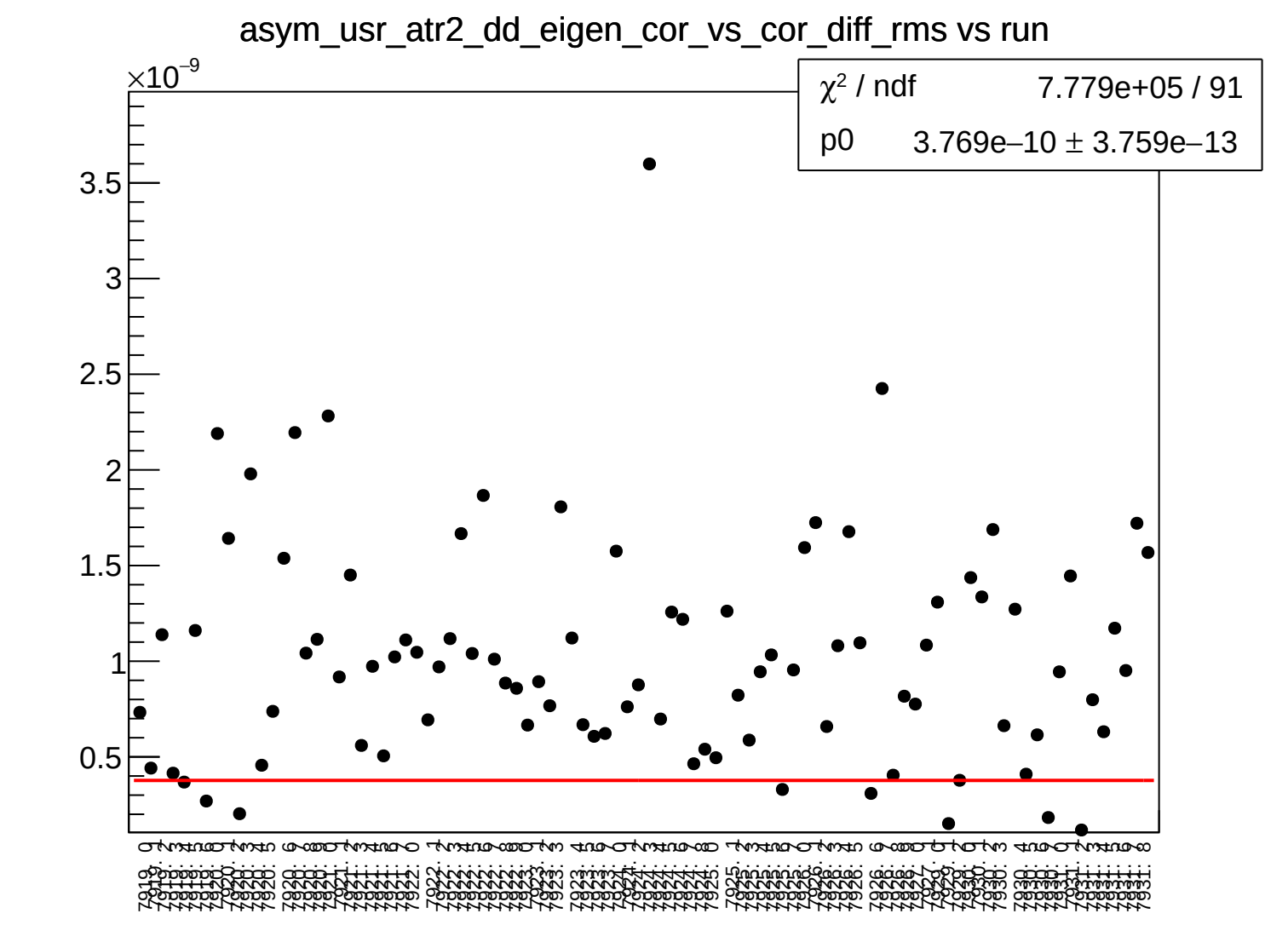

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.692e+04 / 91
p0 212 ± 0.1596
260
240
220
200
180
160

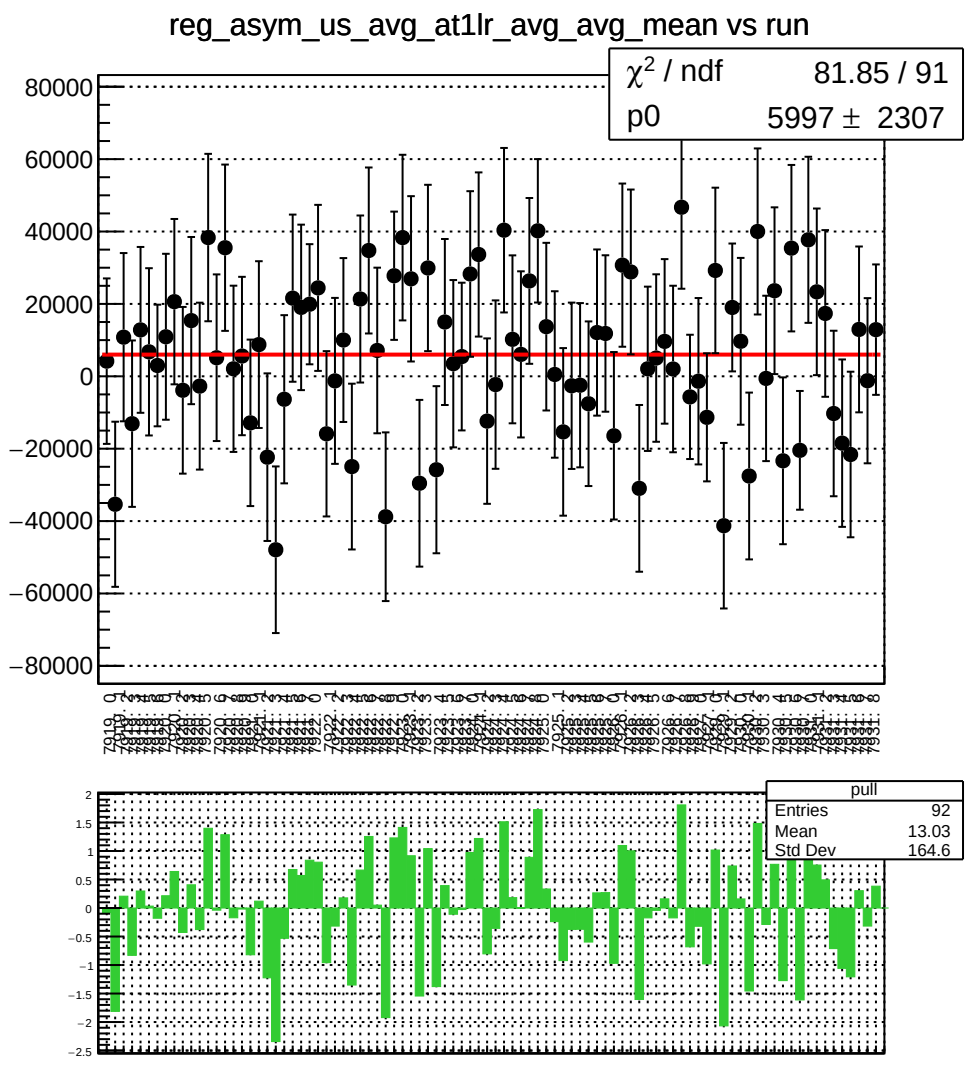

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.31 / 91
p0 0.07253 ± 0.2256
pull
Entries 92
Mean −150.6
Std Dev 0
pull1D
Entries 92
Mean −0.01732
Std Dev 1.018

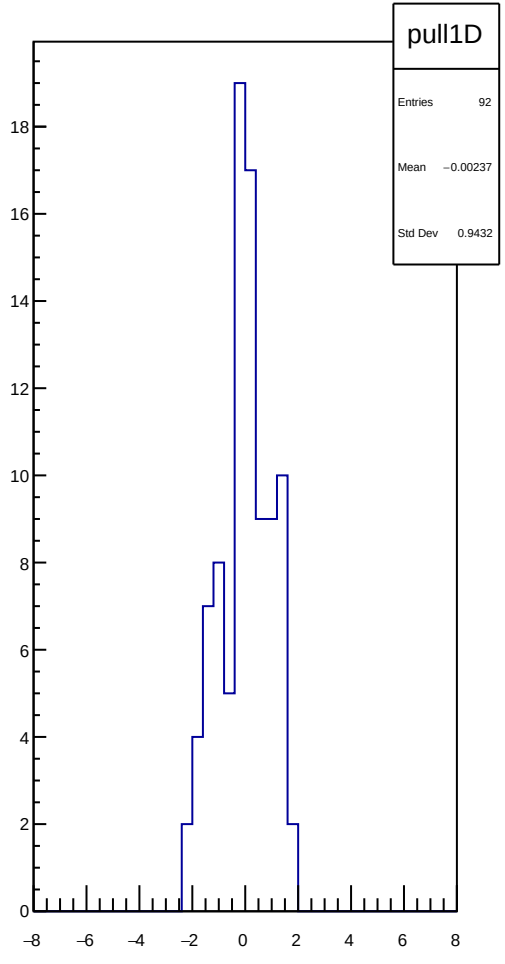

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.692e+04 / 91
p0 212 ± 0.1596
260
240
220
200
180
160

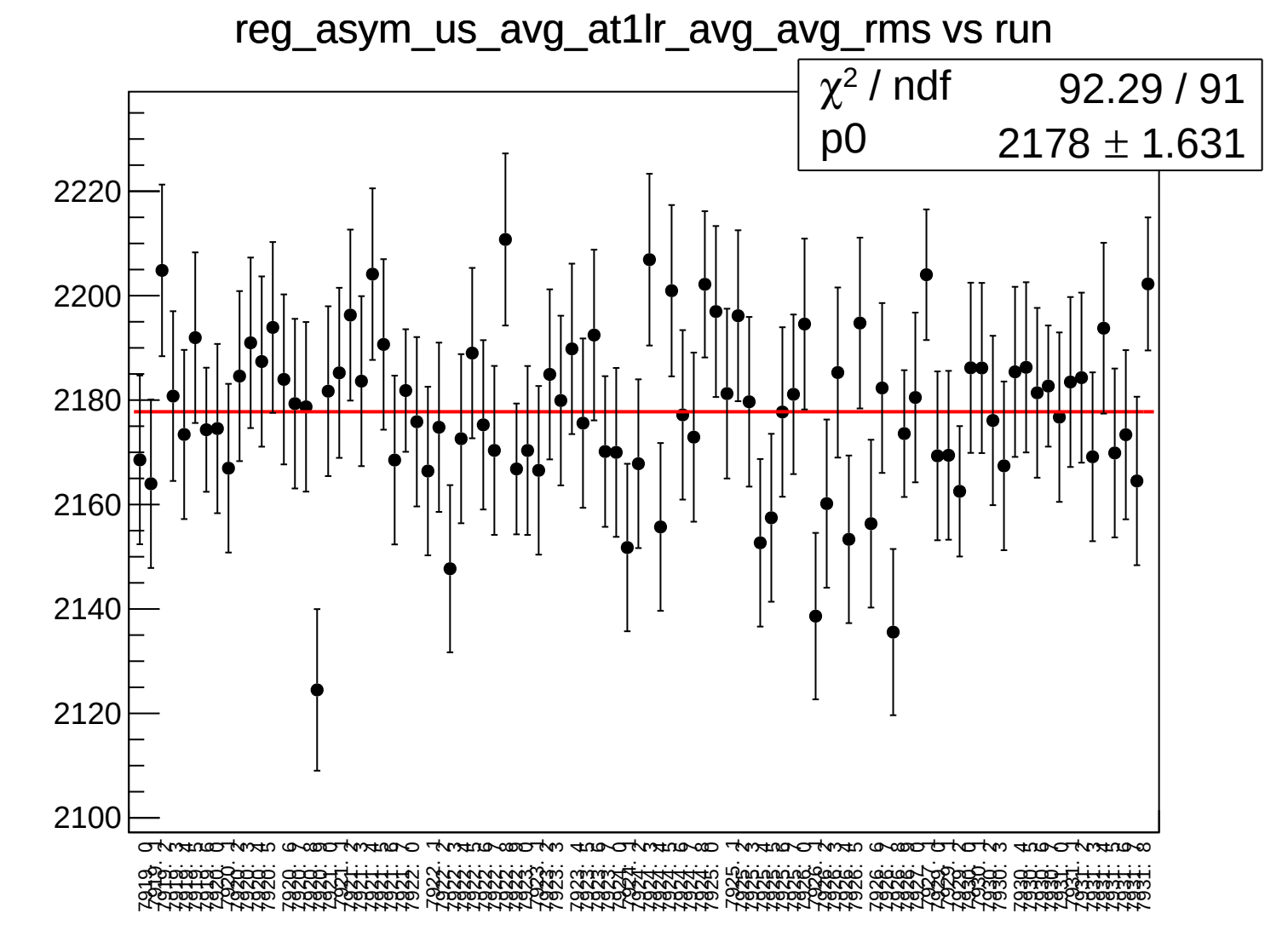

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.7 / 91
p0 −4.354e−13 ± 5.316e−13
pull
Entries 92
Mean 73.67
Std Dev 0

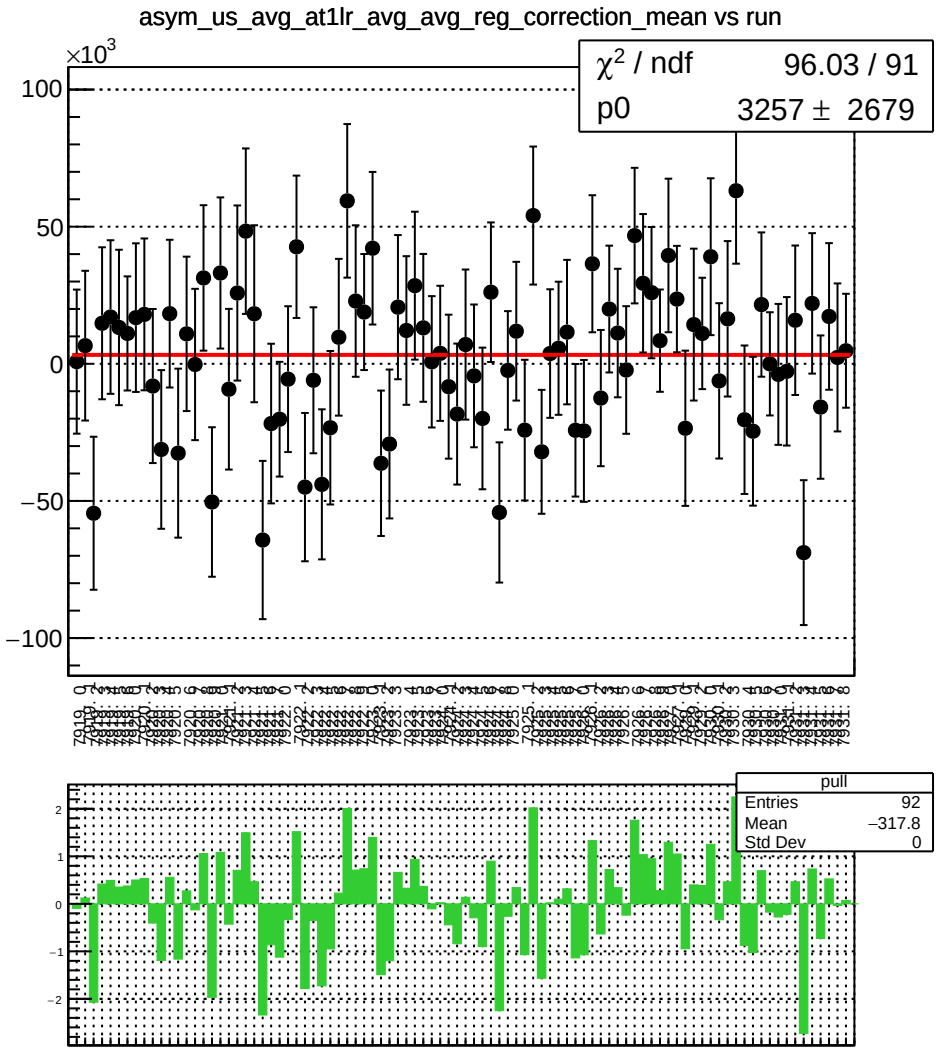

pull1D
Entries 92
Mean 0.07906
Std Dev 0.9333

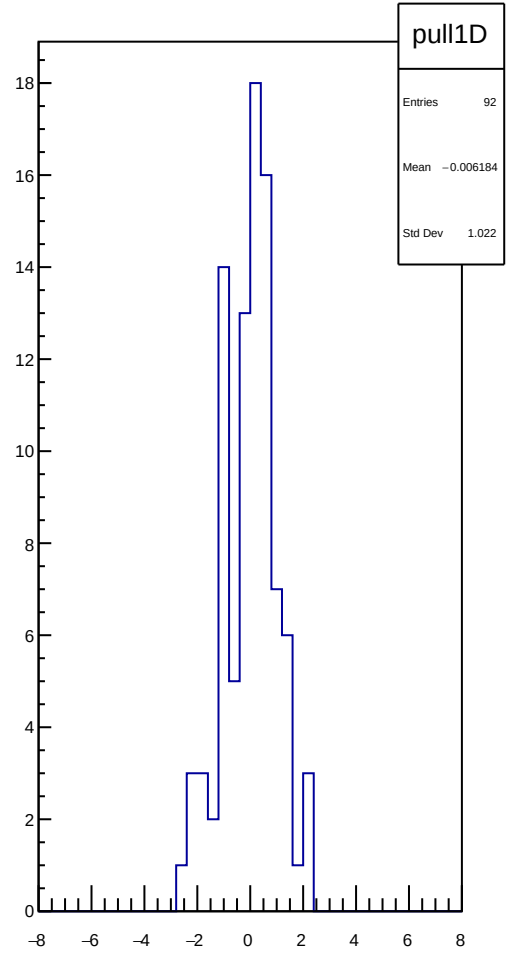

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.779e+05 / 91
p0 3.769e−10 ± 3.759e−13
3.5
3
2.5
2
1.5
1
0.5

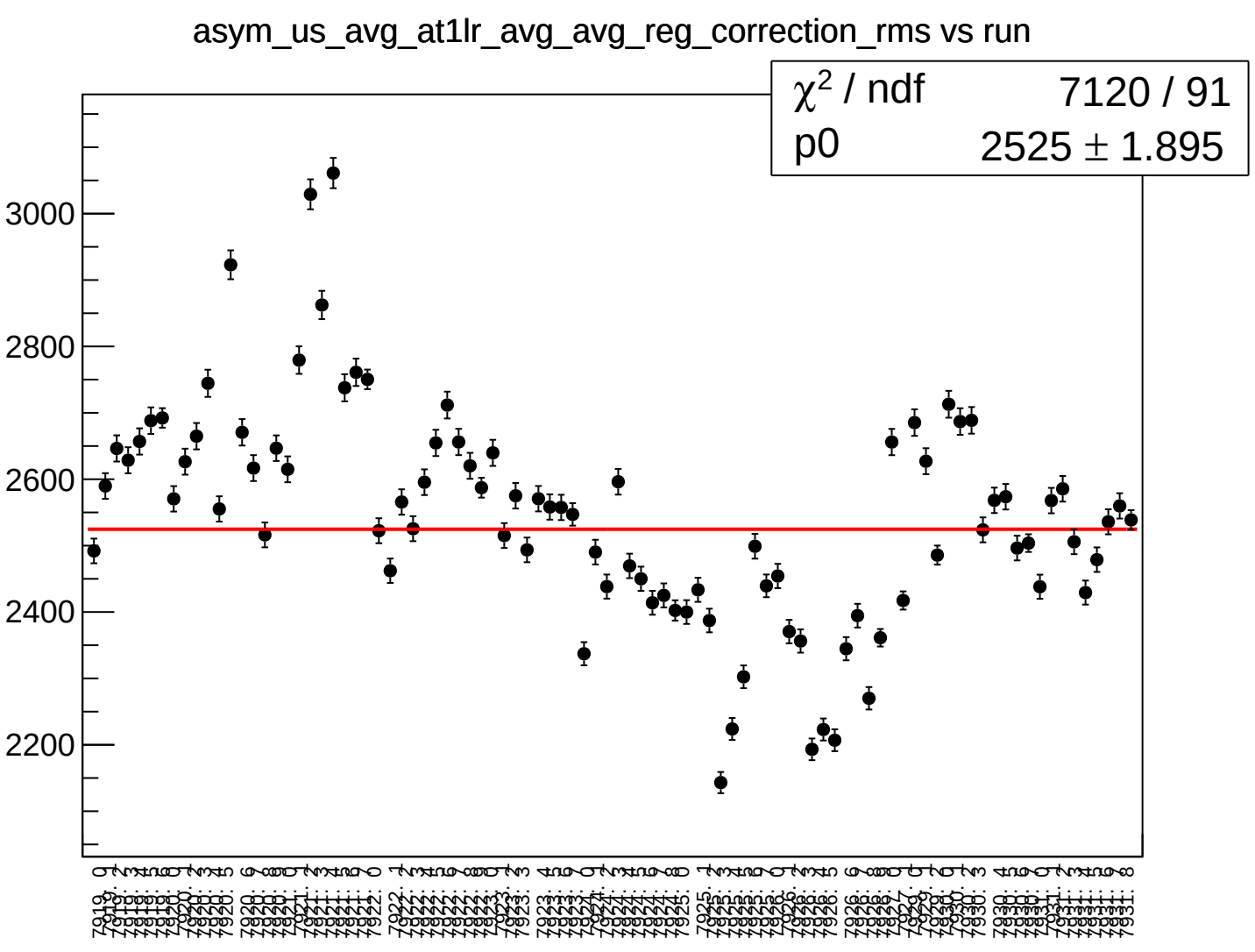

reg_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 81.85 / 91
p0 5997 ± 2307
pull
Entries 92
Mean 13.03
Std Dev 164.6

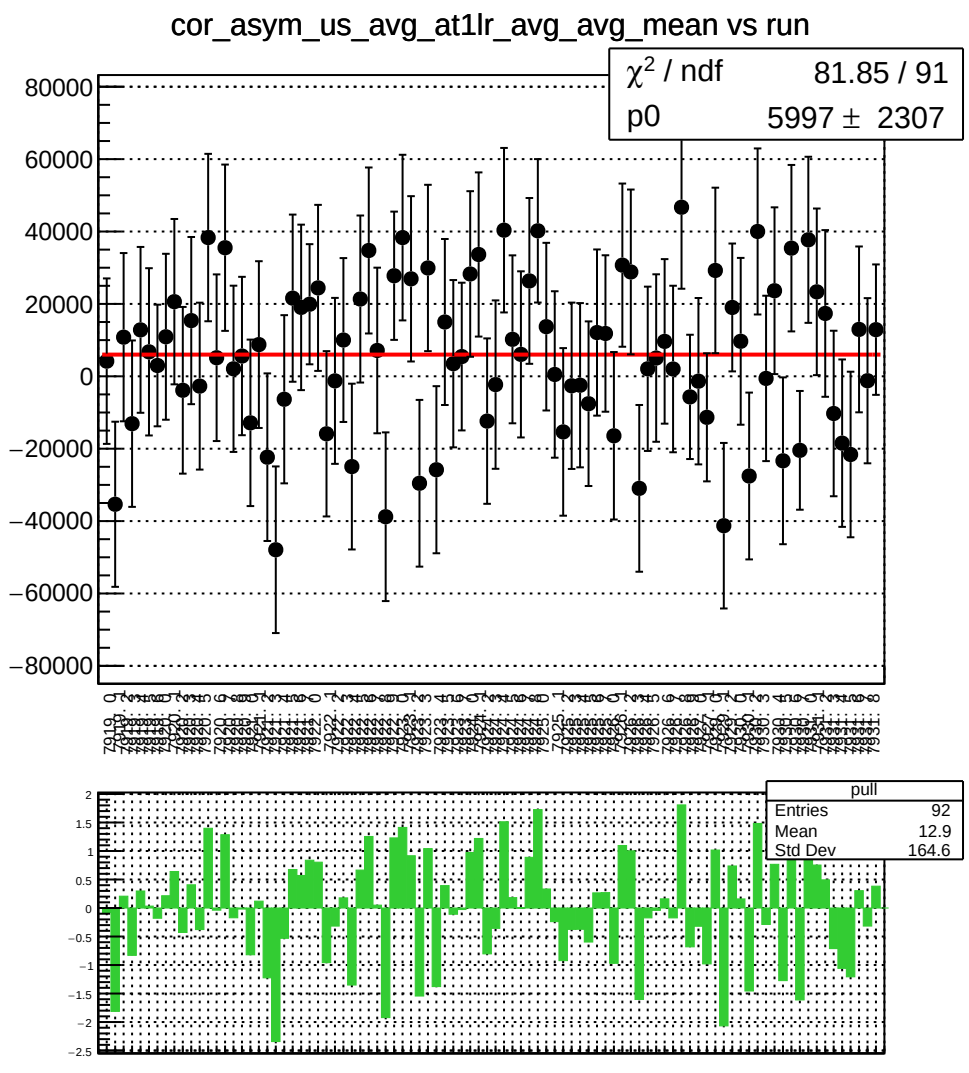

pull1D
Entries 92
Mean −0.00237
Std Dev 0.9432

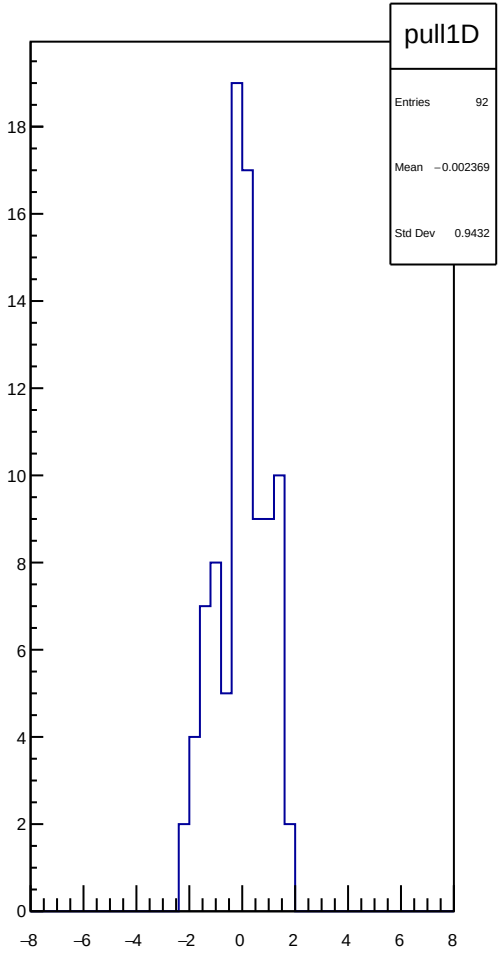

reg_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 92.29 / 91
p0 2178 ± 1.631
2220
2200
2180
2160
2140
2120
2100

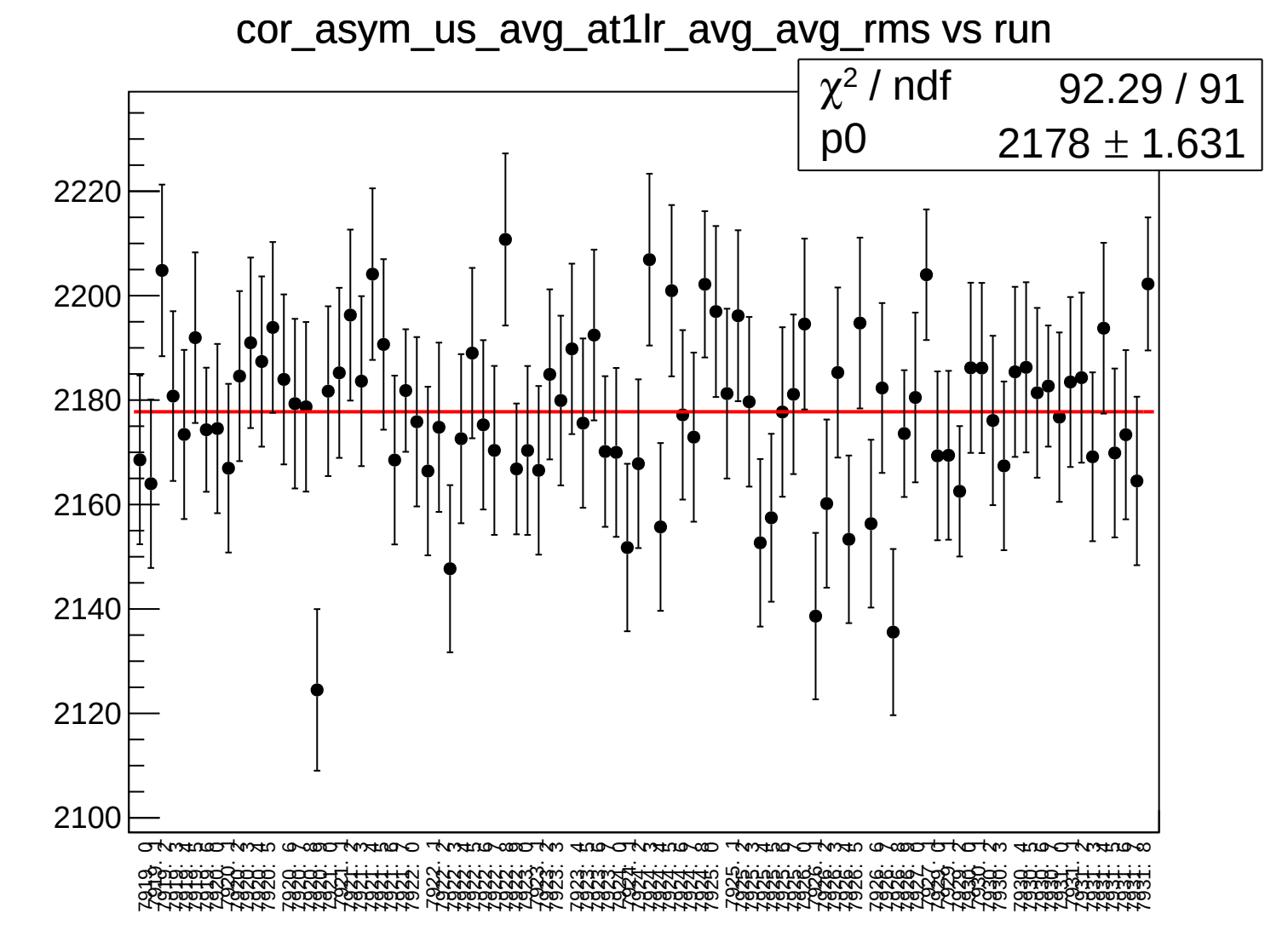

asym_us_avg_at1lr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 96.03 / 91
p0 3257 ± 2679
100
50
0
−50
−100
pull
Entries 92
Mean −317.8
Std Dev 0
2
1
0
−1
−2

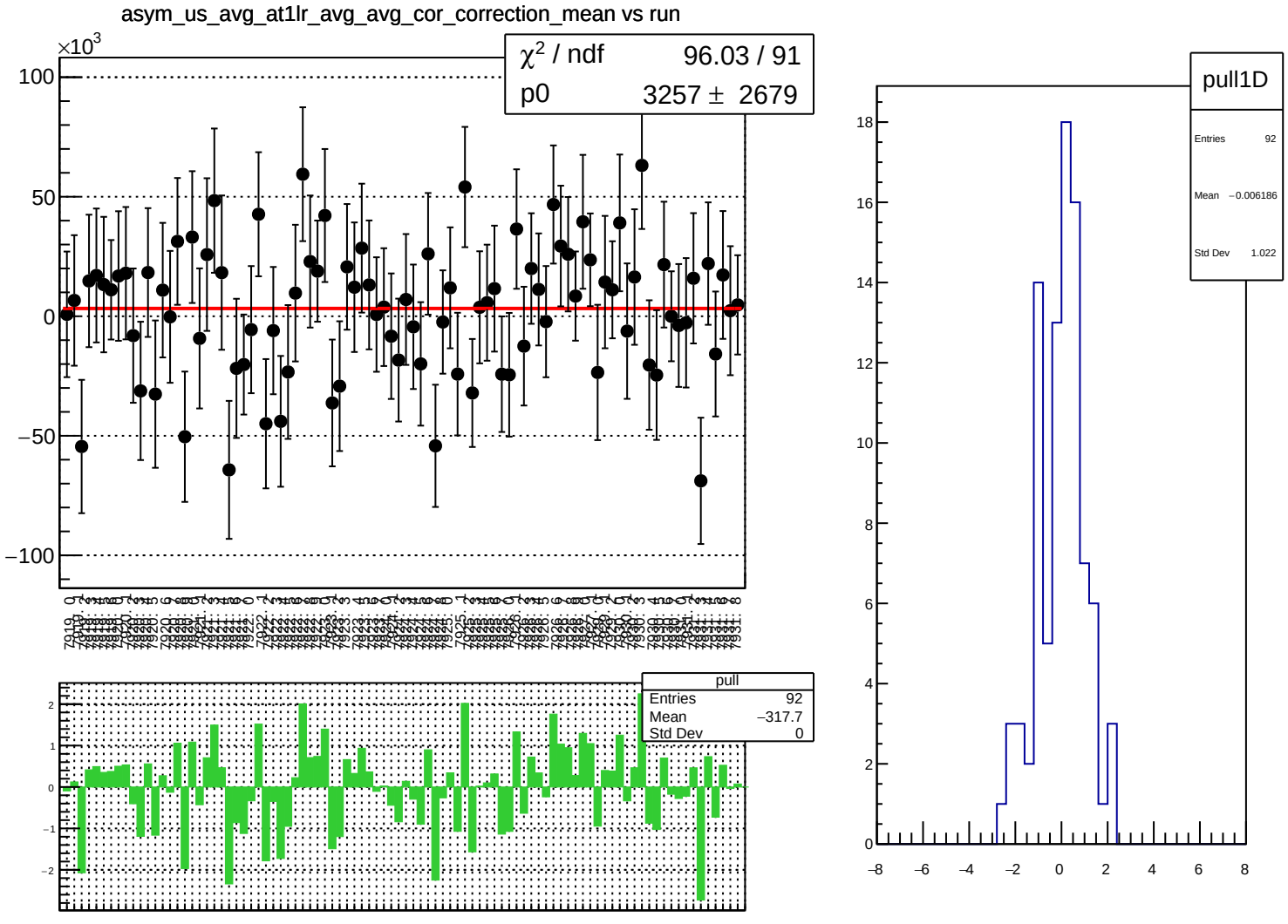

pull1D
Entries 92
Mean −0.006184
Std Dev 1.022
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

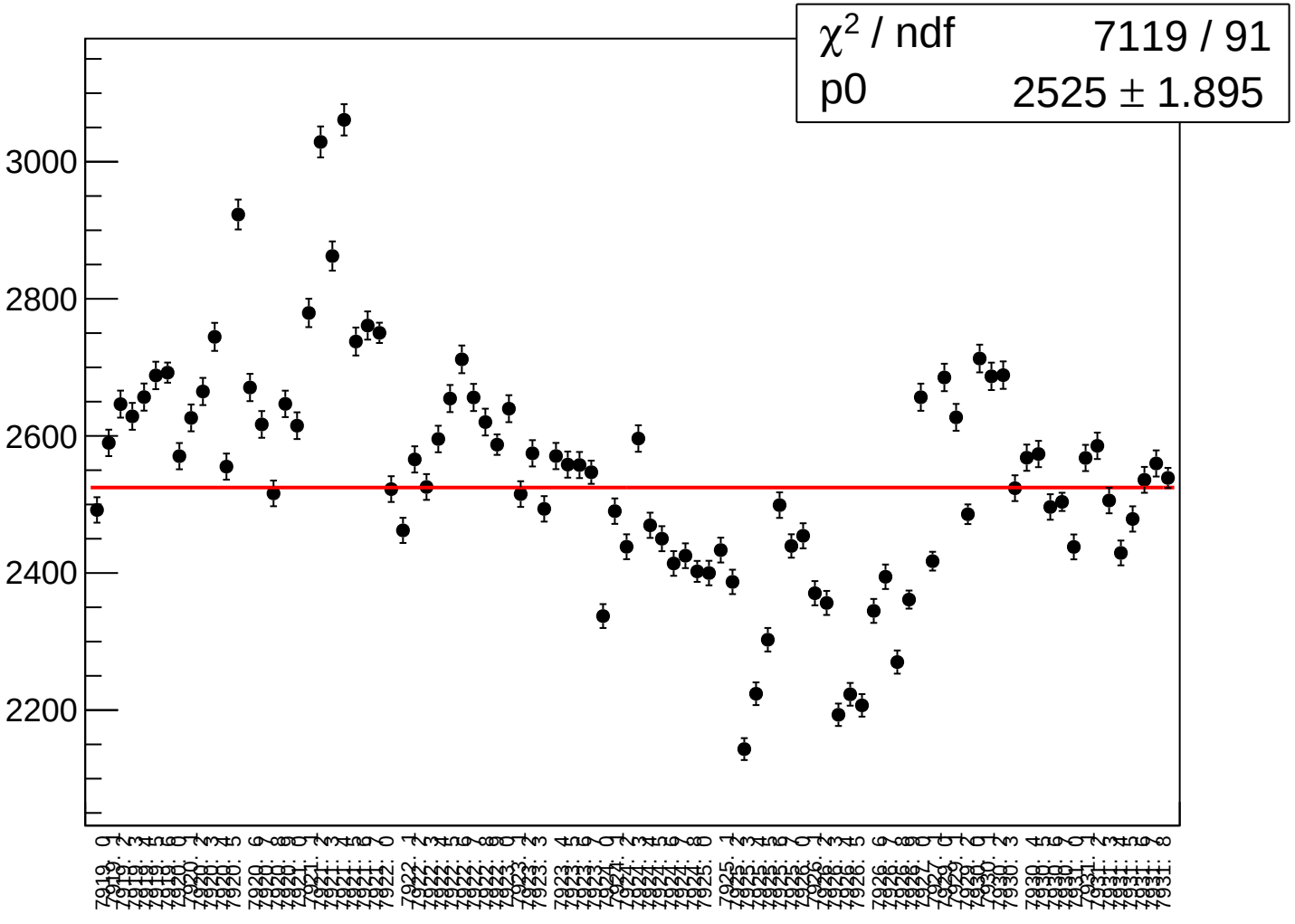

asym_us_avg_at1lr_avg_avg_reg_correction_rms vs run
χ² / ndf 7120 / 91
p0 2525 ± 1.895
3000
2800
2600
2400
2200

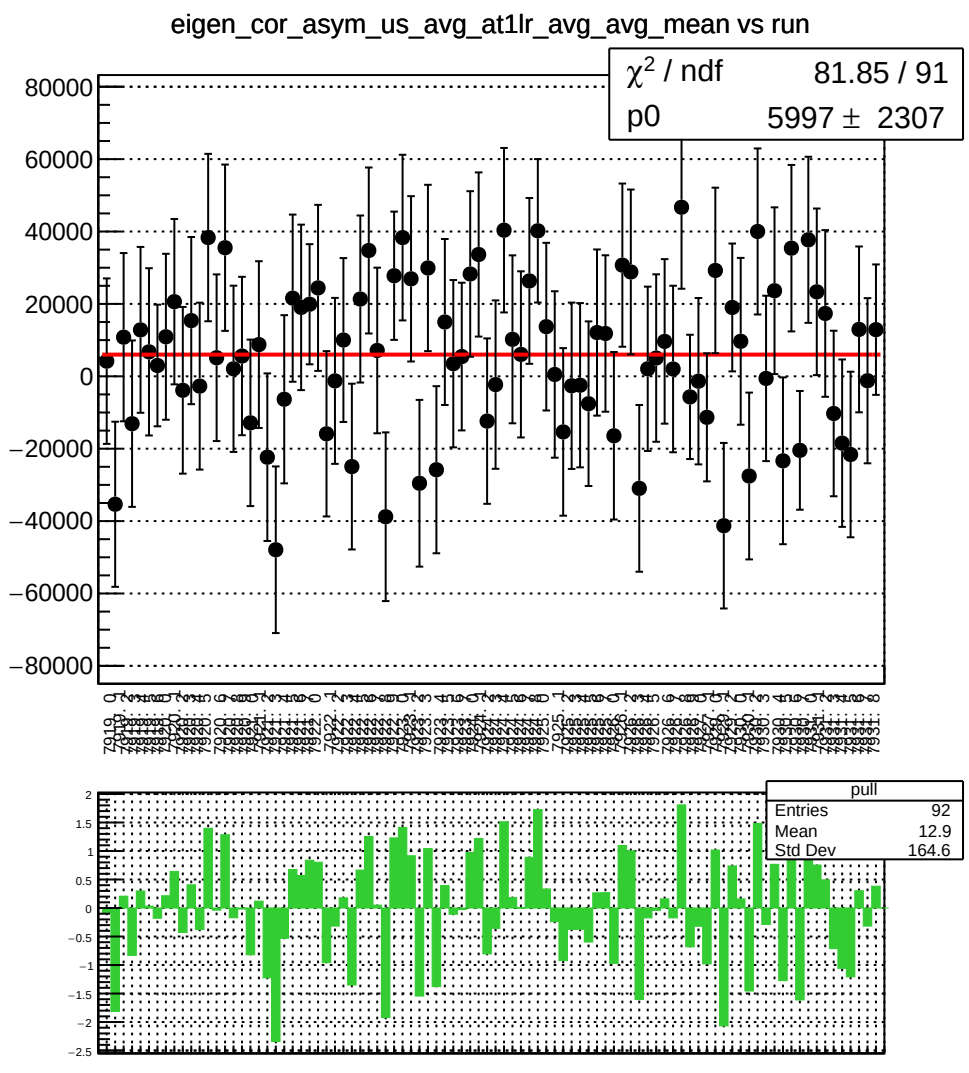

cor_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 81.85 / 91
p0 5997 ± 2307
pull
Entries 92
Mean 12.9
Std Dev 164.6

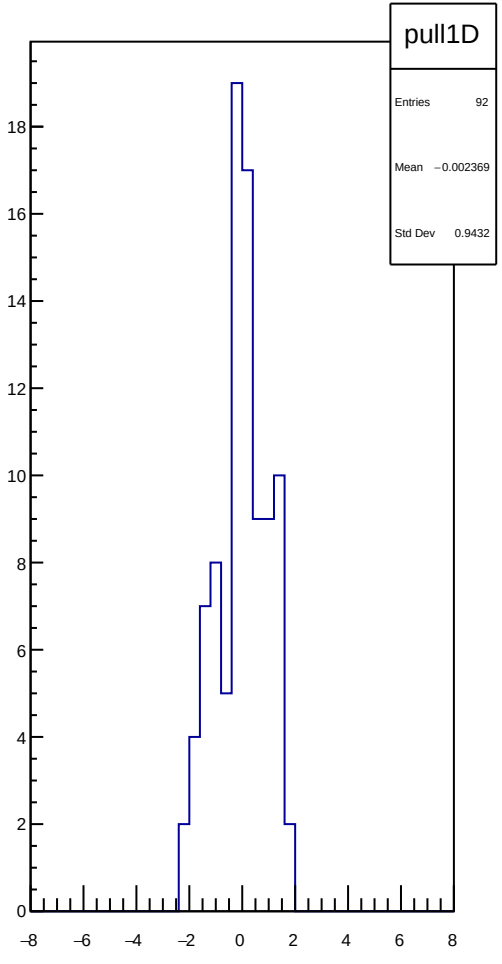

pull1D
Entries 92
Mean −0.002369
Std Dev 0.9432

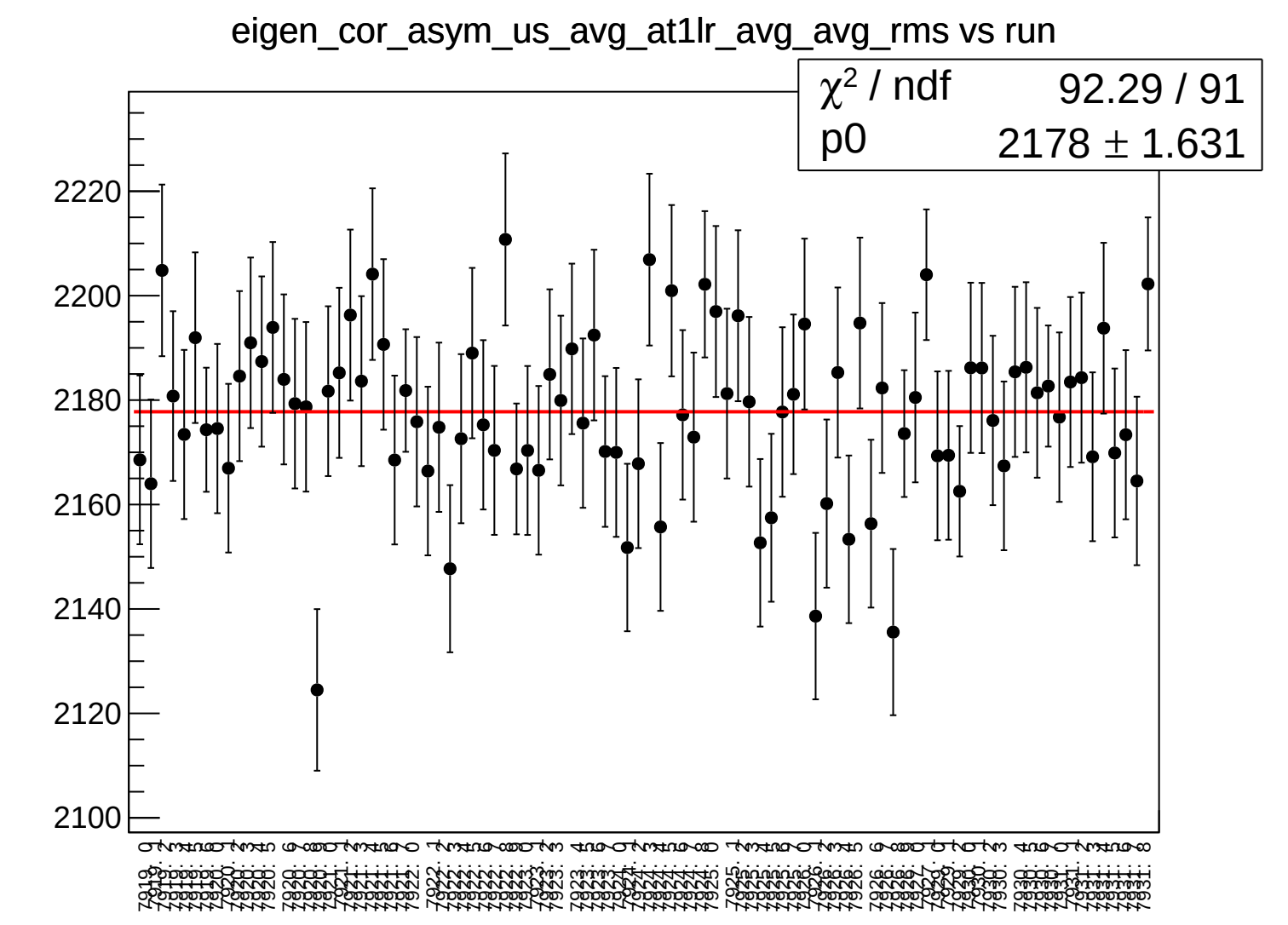

cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ^2 / ndf 92.29 / 91
p0 2178 ± 1.631
2220
2200
2180
2160
2140
2120
2100

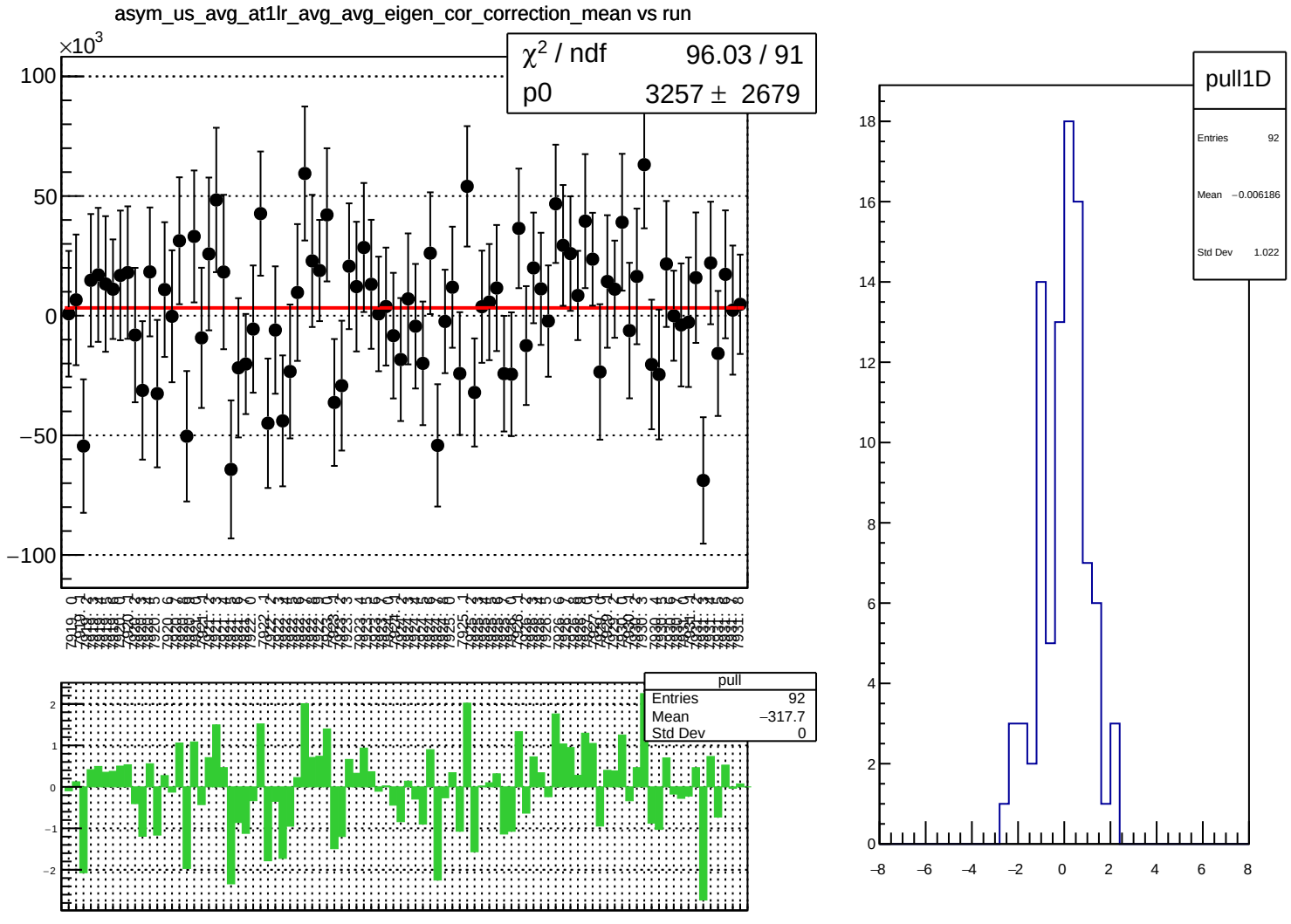

asym_us_avg_at1lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 96.03 / 91
p0 3257 ± 2679
100
50
0
−50
−100
pull
Entries 92
Mean −317.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.006186
Std Dev 1.022
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

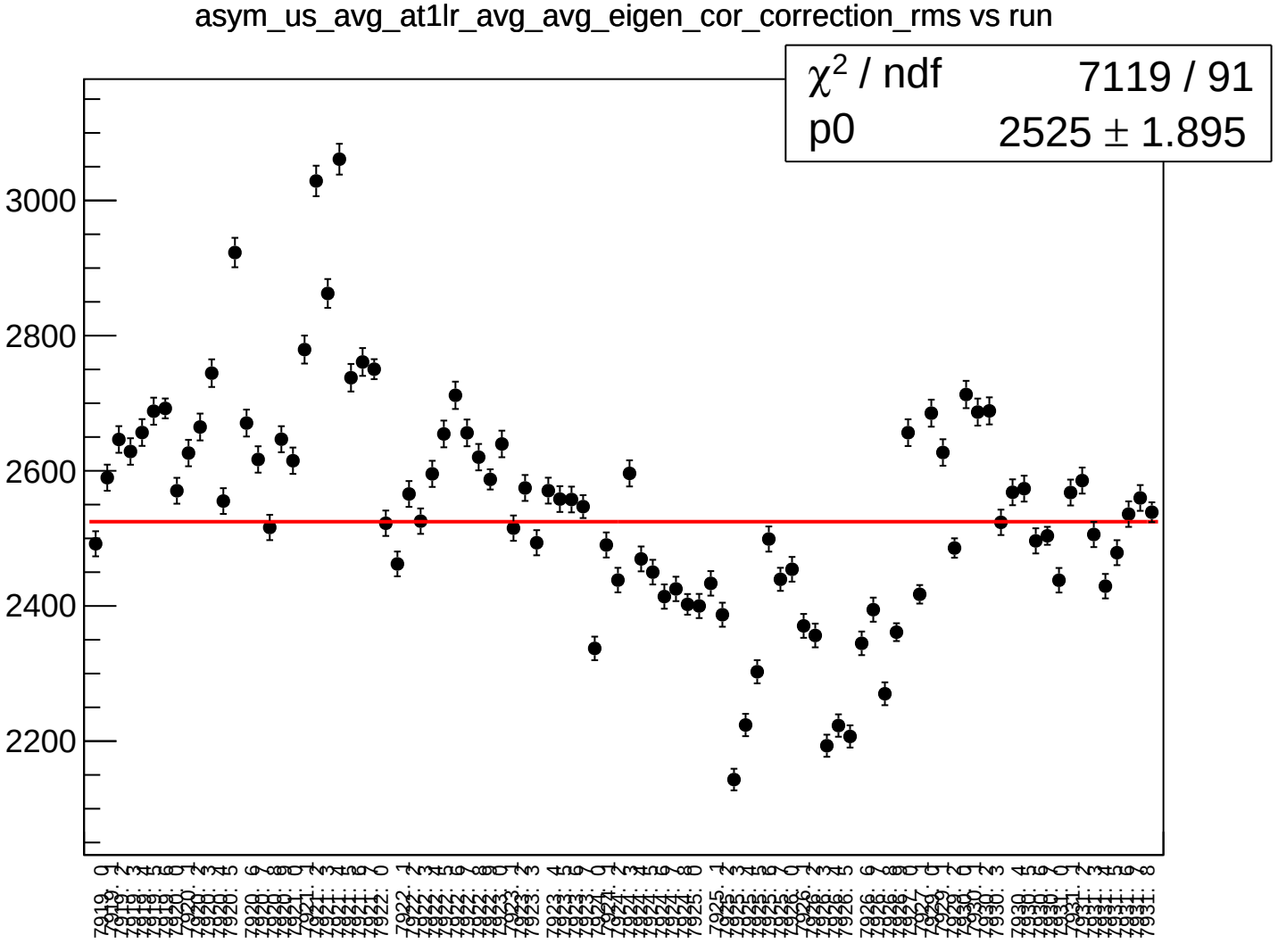

asym_us_avg_at1lr_avg_avg_cor_correction_rms vs run
χ² / ndf 7119 / 91
p0 2525 ± 1.895
3000
2800
2600
2400
2200

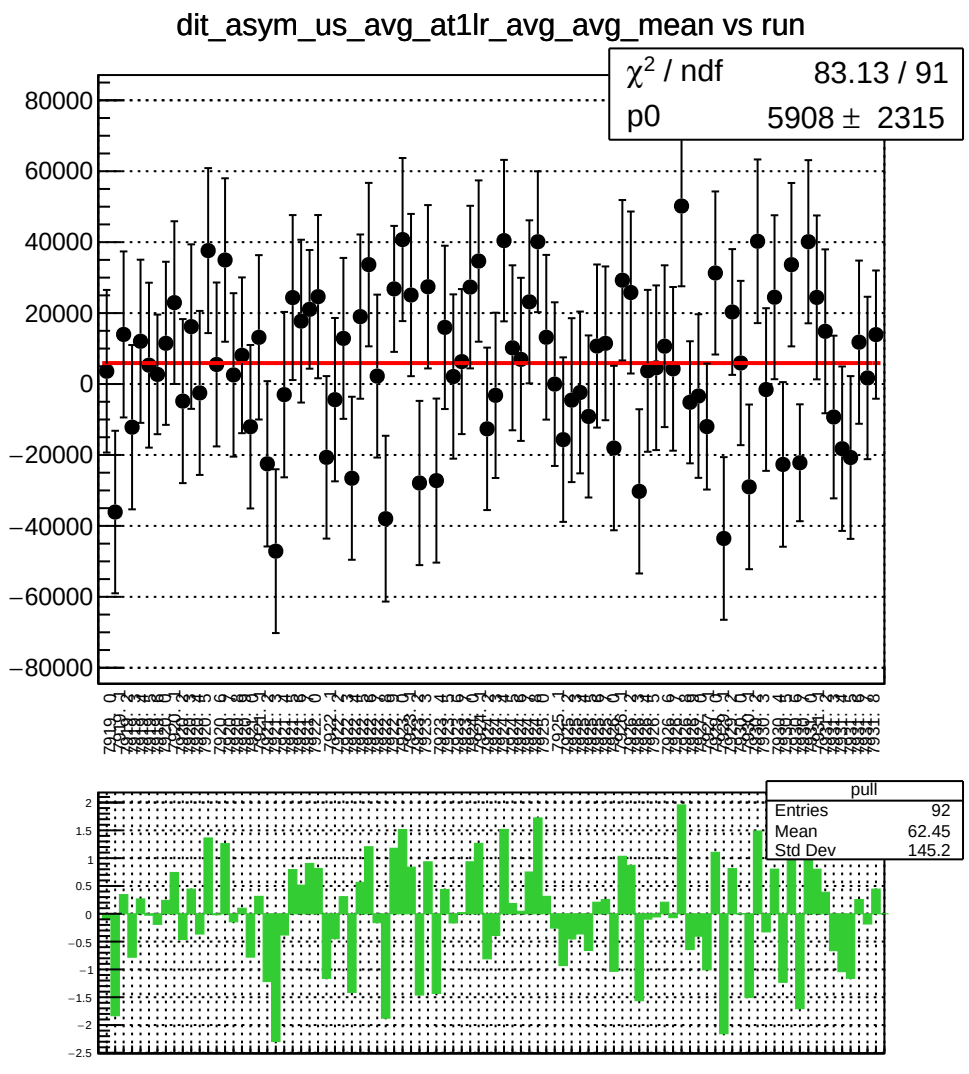

eigen_cor_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 81.85 / 91
p0 5997 ± 2307
pull
Entries 92
Mean 12.9
Std Dev 164.6

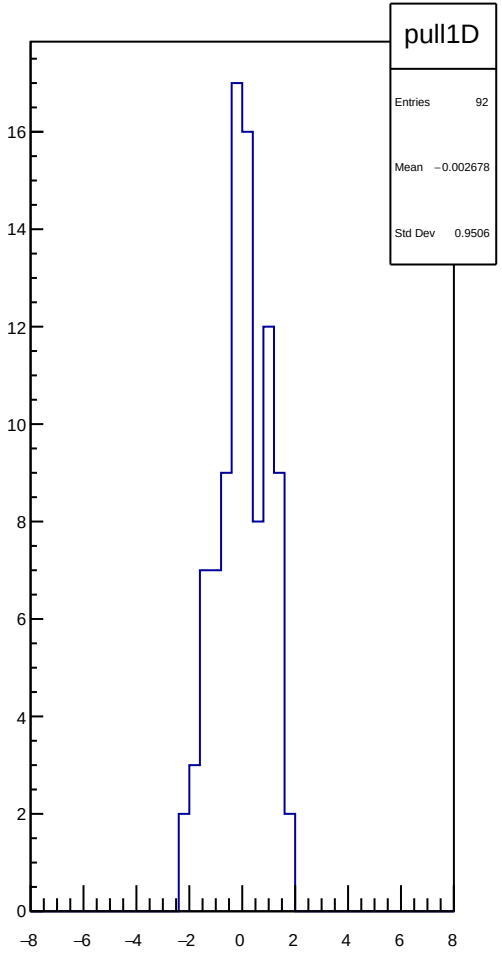

pull1D
Entries 92
Mean −0.002369
Std Dev 0.9432

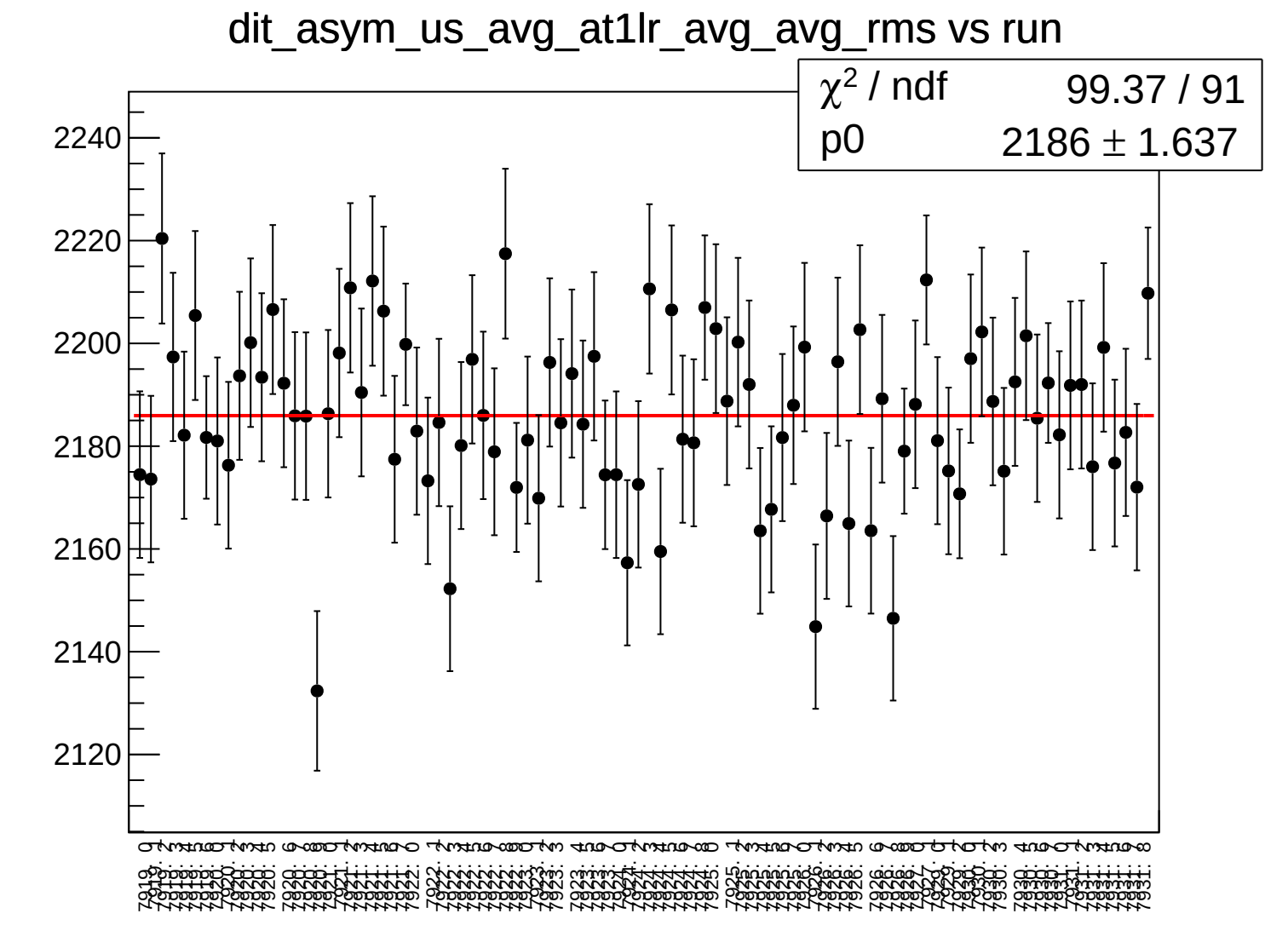

eigen_cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 92.29 / 91
p0 2178 ± 1.631
2220
2200
2180
2160
2140
2120
2100

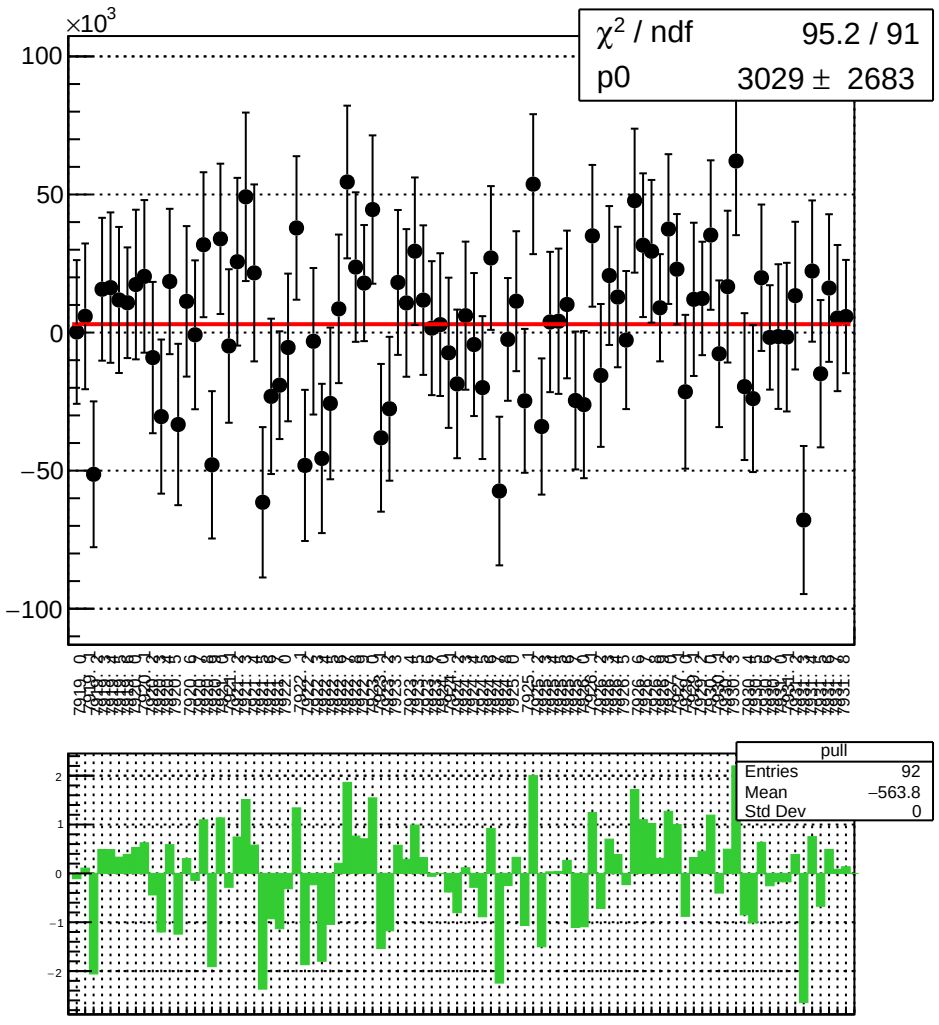

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 96.03 / 91
p0 3257 ± 2679
100
50
0
−50
−100
pull
Entries 92
Mean −317.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.006186
Std Dev 1.022
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

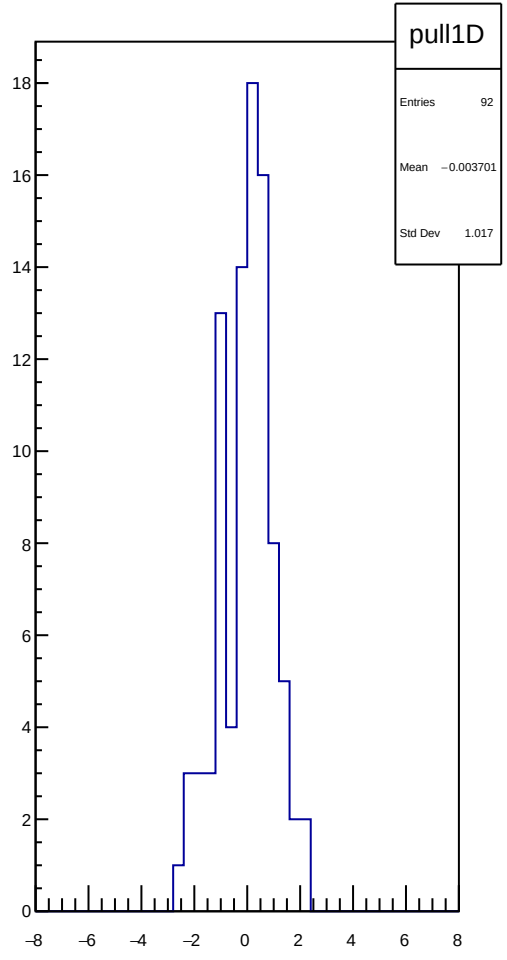

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 7119 / 91
p0 2525 ± 1.895
3000
2800
2600
2400
2200

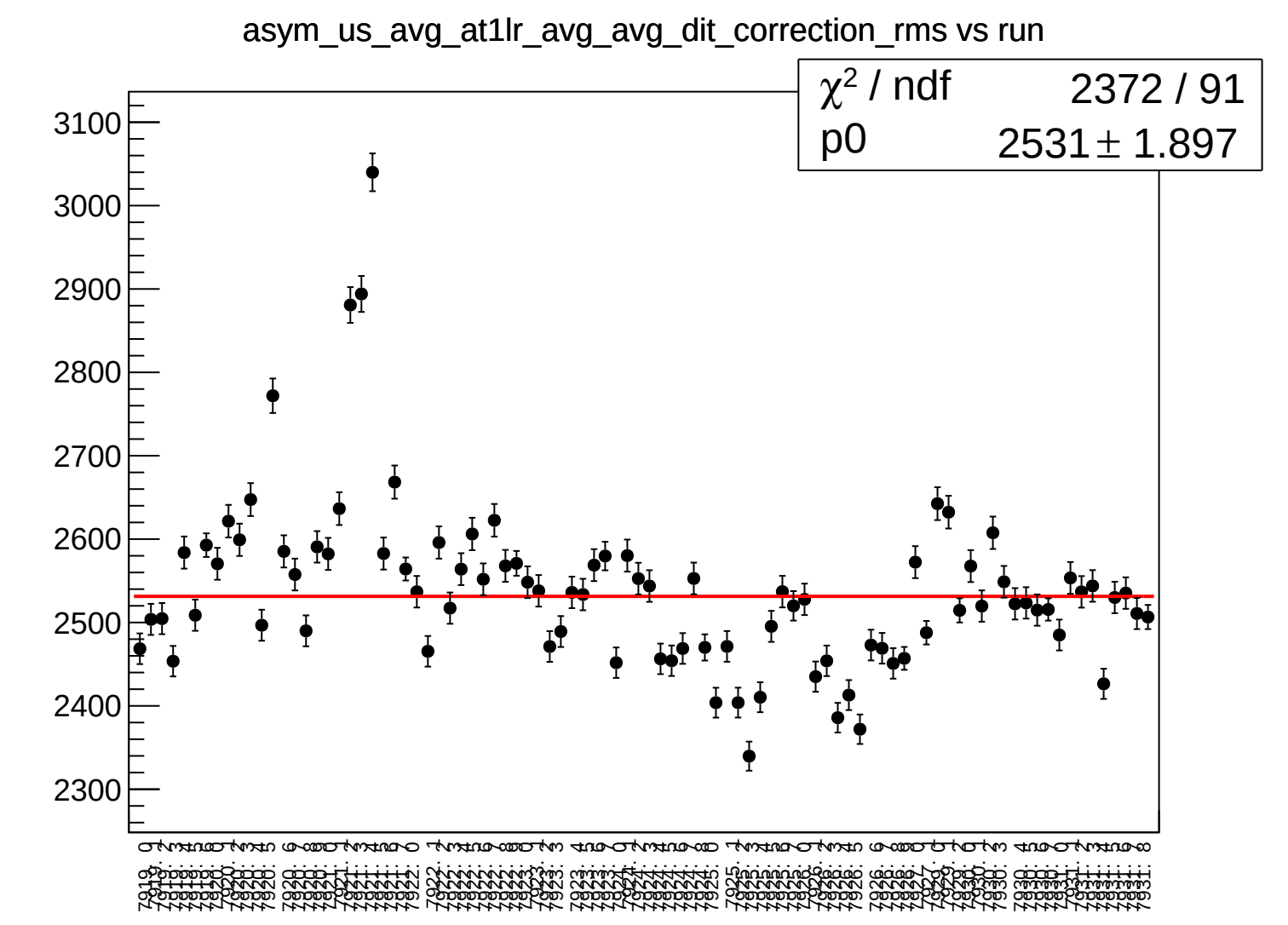

dit_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 83.13 / 91
p0 5908 ± 2315
pull
Entries 92
Mean 62.45
Std Dev 145.2

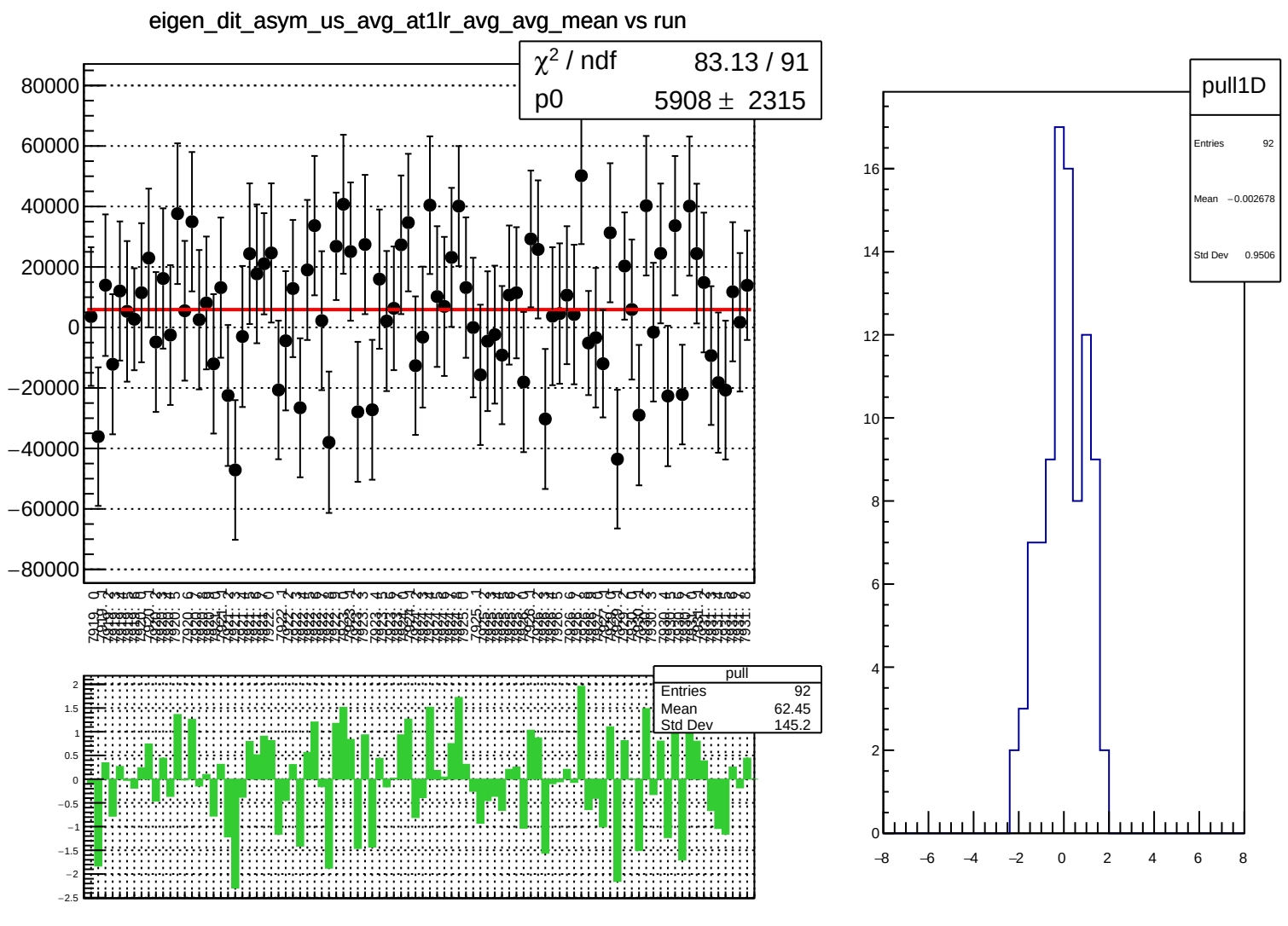

pull1D
Entries 92
Mean −0.002678
Std Dev 0.9506

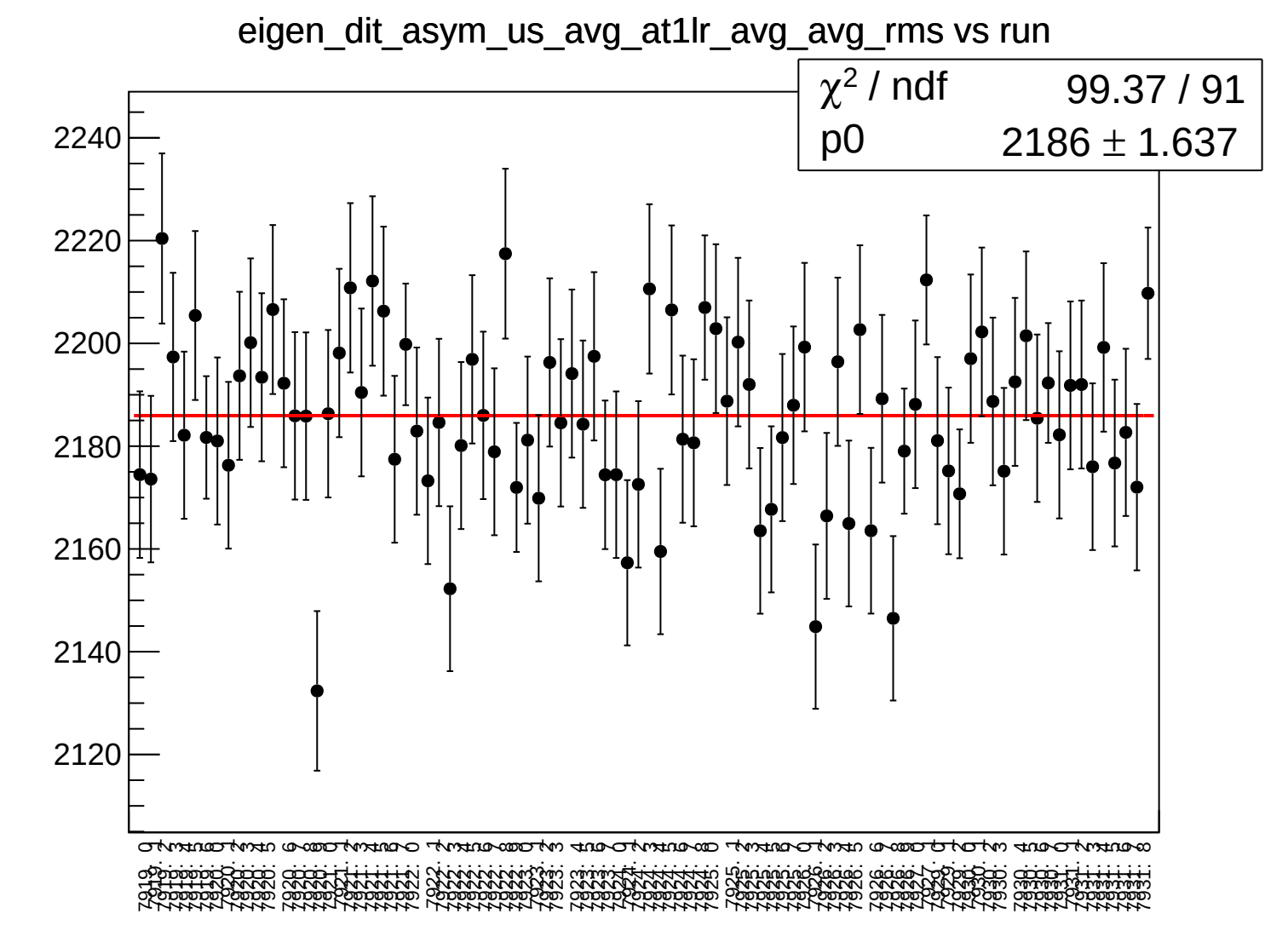

dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 99.37 / 91
p0 2186 ± 1.637
2240
2220
2200
2180
2160
2140
2120

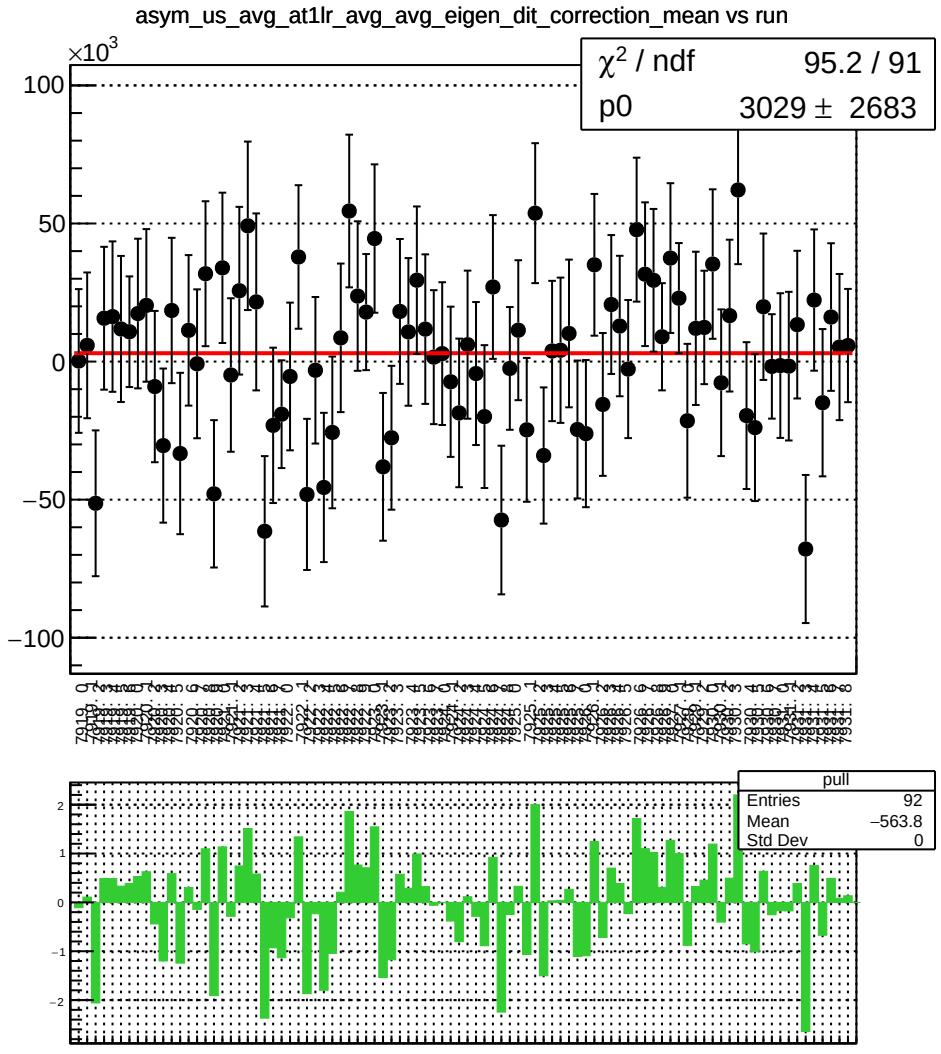

asym_us_avg_at1lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 95.2 / 91
p0 3029 ± 2683
100
50
0
−50
−100
pull
Entries 92
Mean −563.8
Std Dev 0
2
1
0
−1
−2

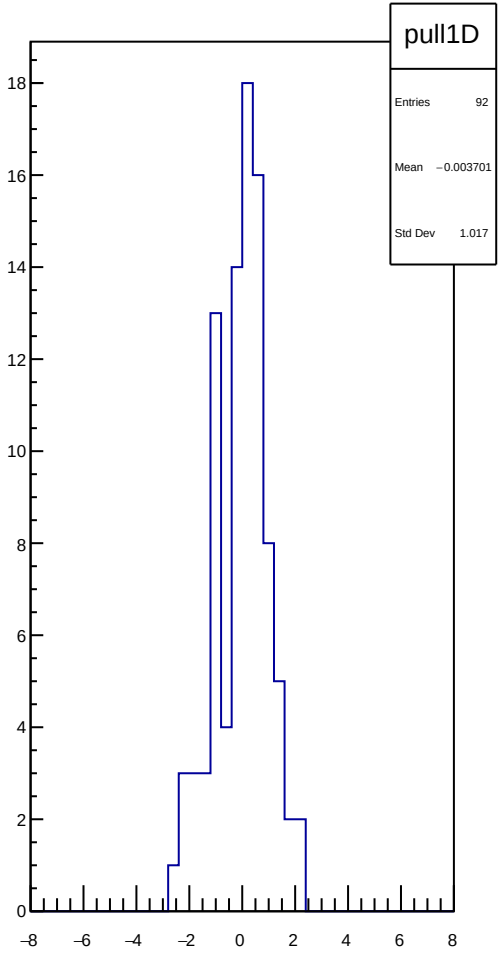

pull1D
Entries 92
Mean −0.003701
Std Dev 1.017
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

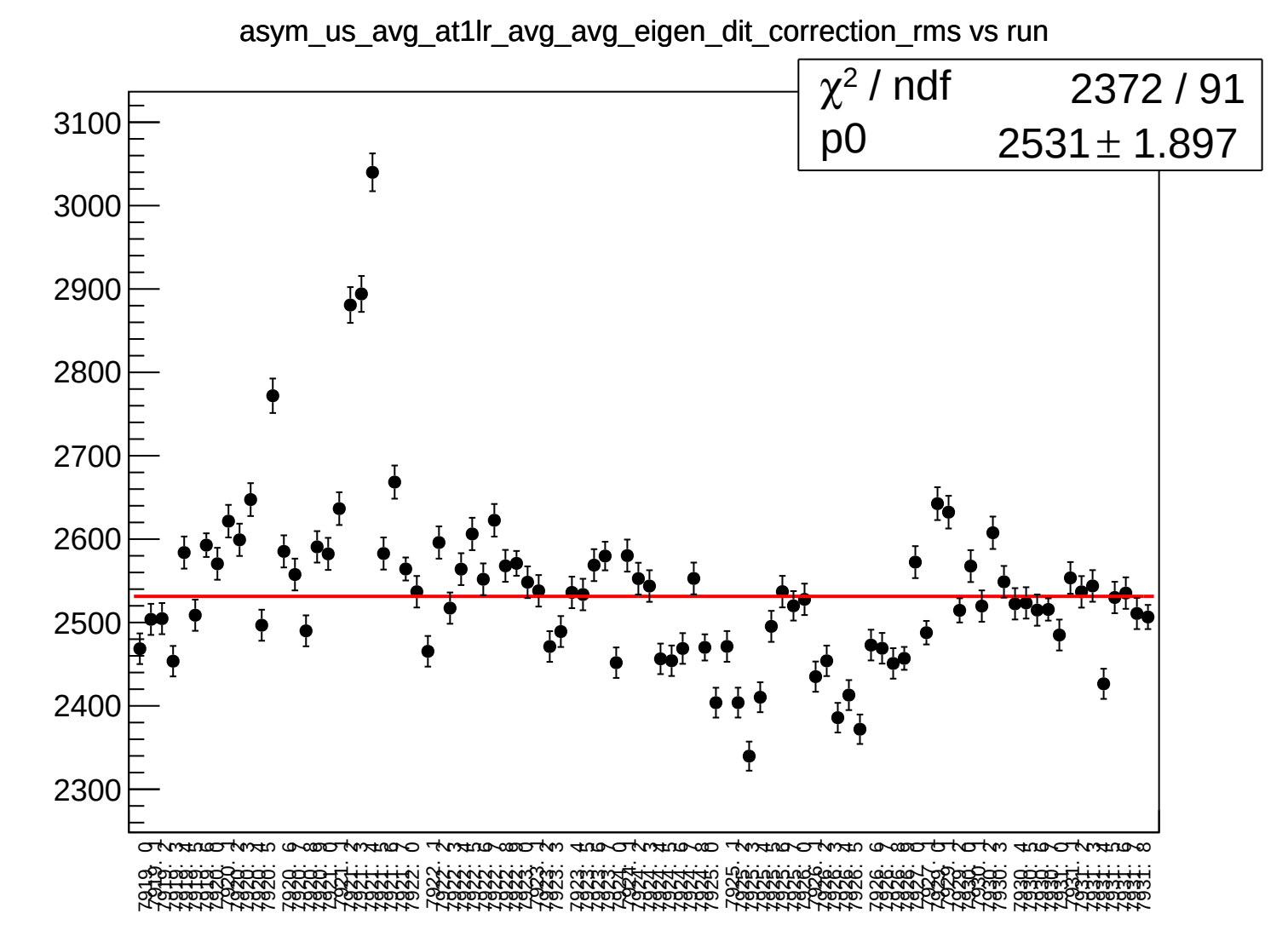

asym_us_avg_at1lr_avg_avg_dit_correction_rms vs run
χ² / ndf 2372 / 91
p0 2531 ± 1.897
3100
3000
2900
2800
2700
2600
2500
2400
2300

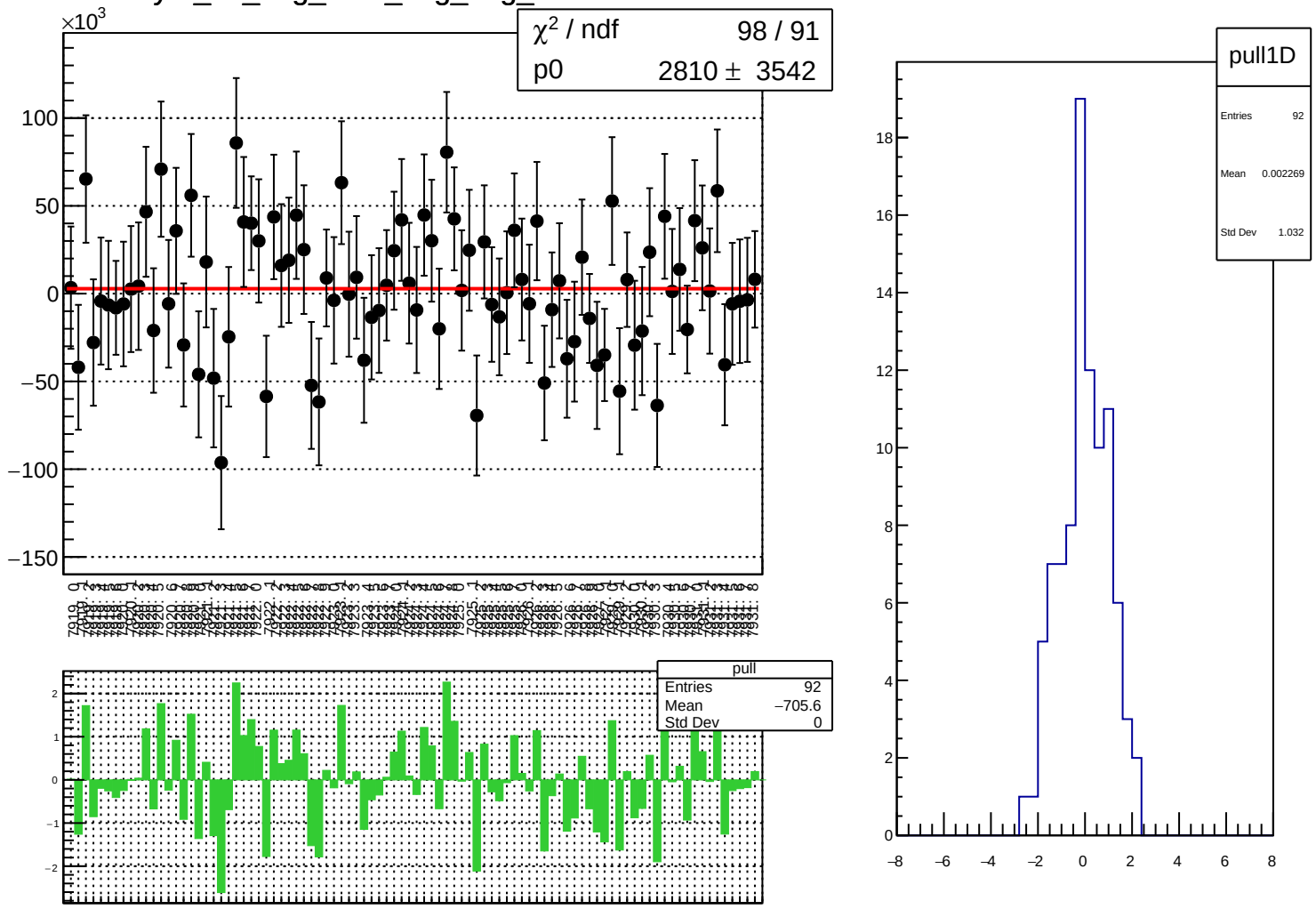

eigen_dit_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 83.13 / 91
p0 5908 ± 2315
pull
Entries 92
Mean 62.45
Std Dev 145.2
pull1D
Entries 92
Mean −0.002678
Std Dev 0.9506

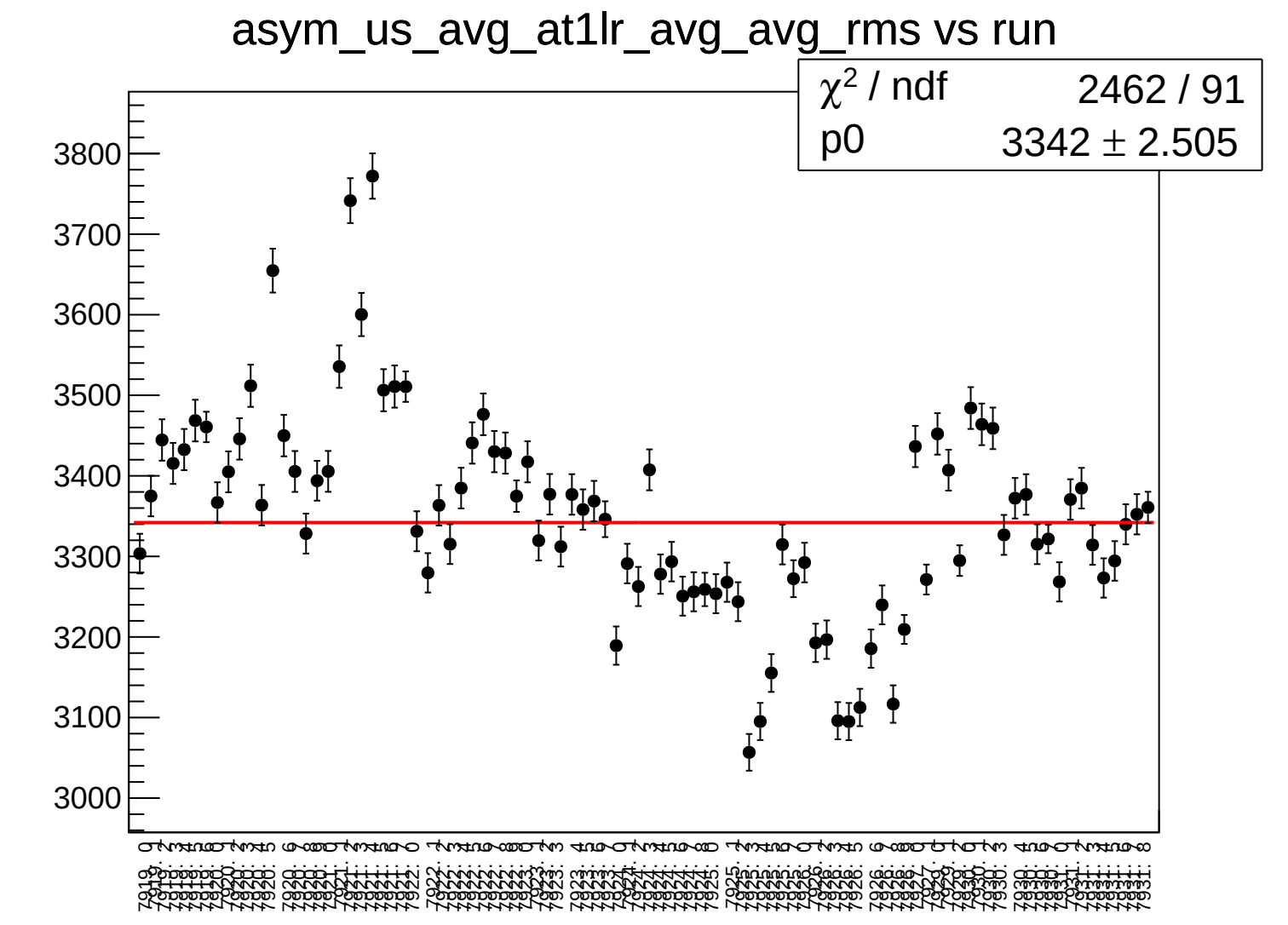

eigen_dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 99.37 / 91
p0 2186 ± 1.637
2240
2220
2200
2180
2160
2140
2120

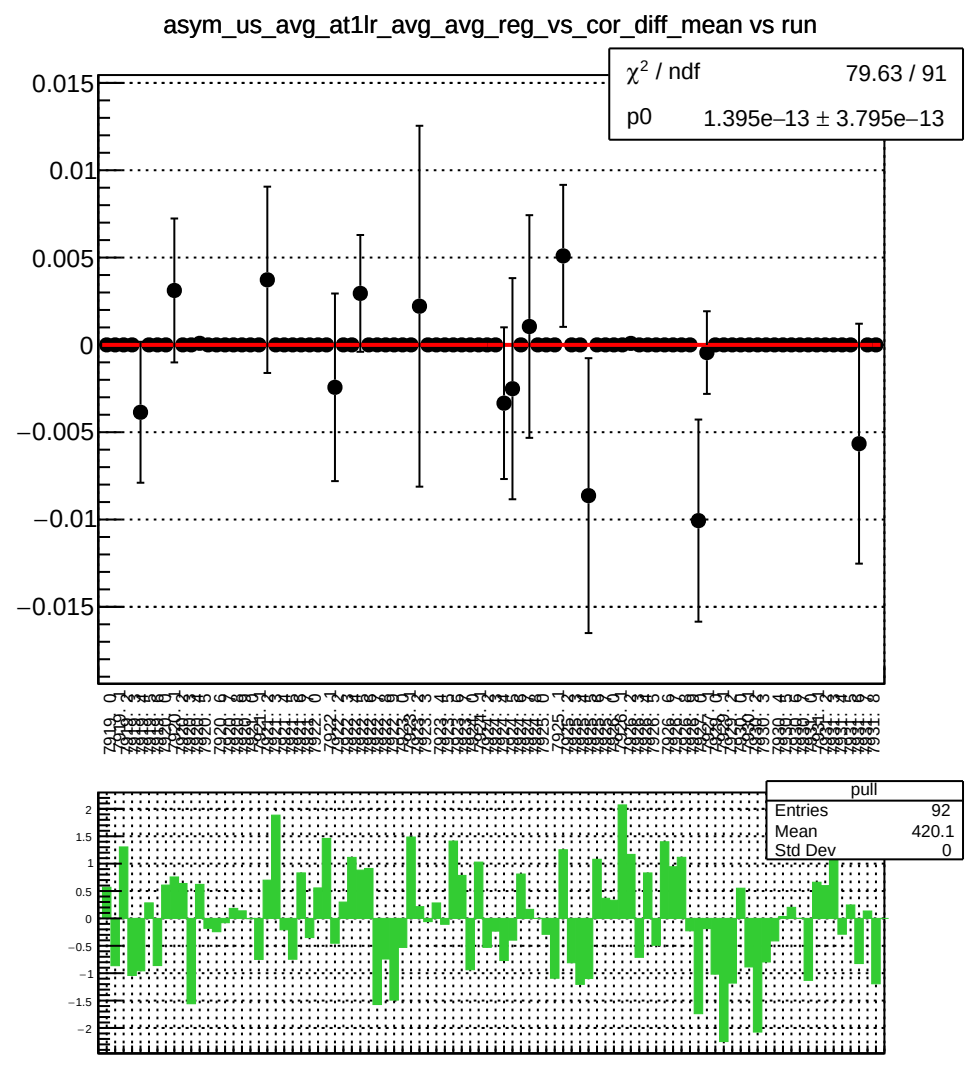

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 95.2 / 91
p0 3029 ± 2683
100
50
0
−50
−100
pull
Entries 92
Mean −563.8
Std Dev 0
2
1
0
−1
−2

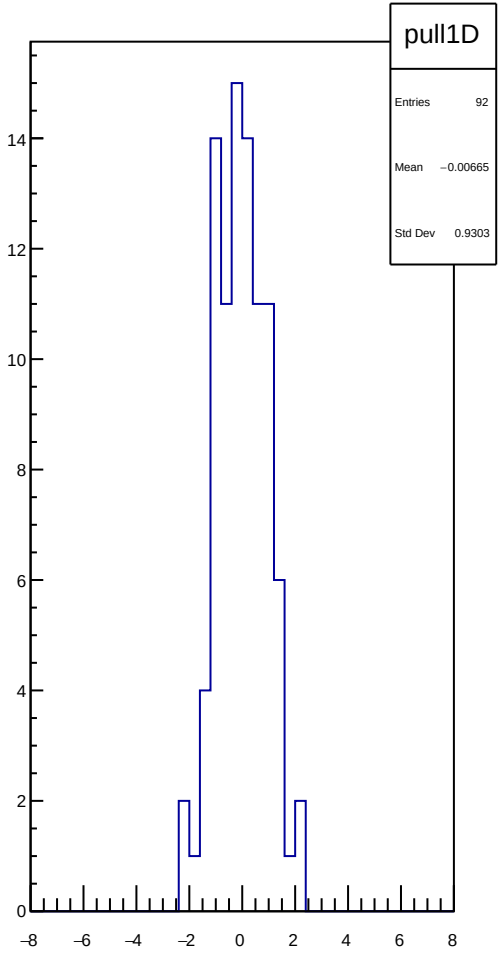

pull1D
Entries 92
Mean −0.003701
Std Dev 1.017
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

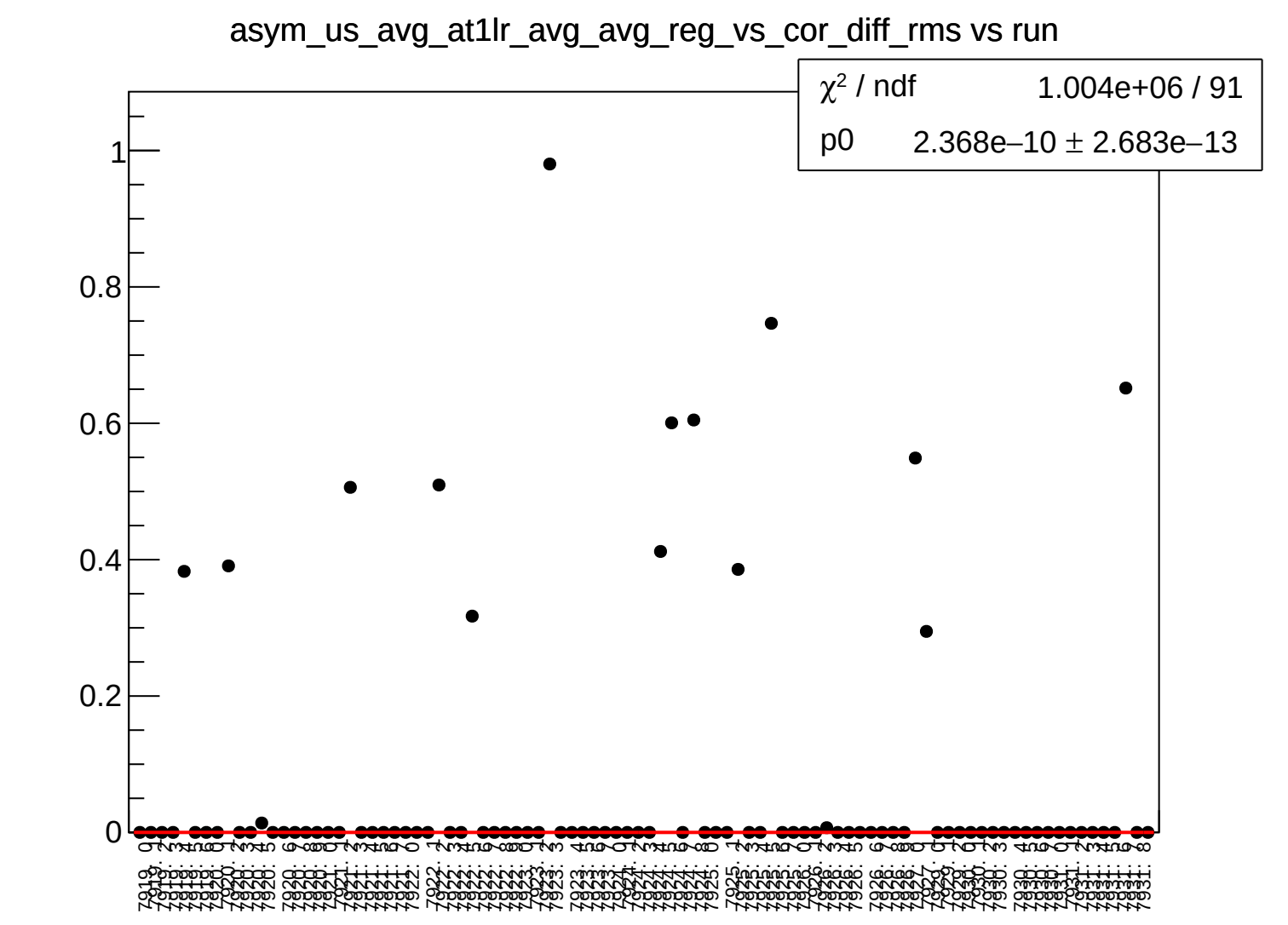

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 2372 / 91
p0 2531 ± 1.897
3100
3000
2900
2800
2700
2600
2500
2400
2300

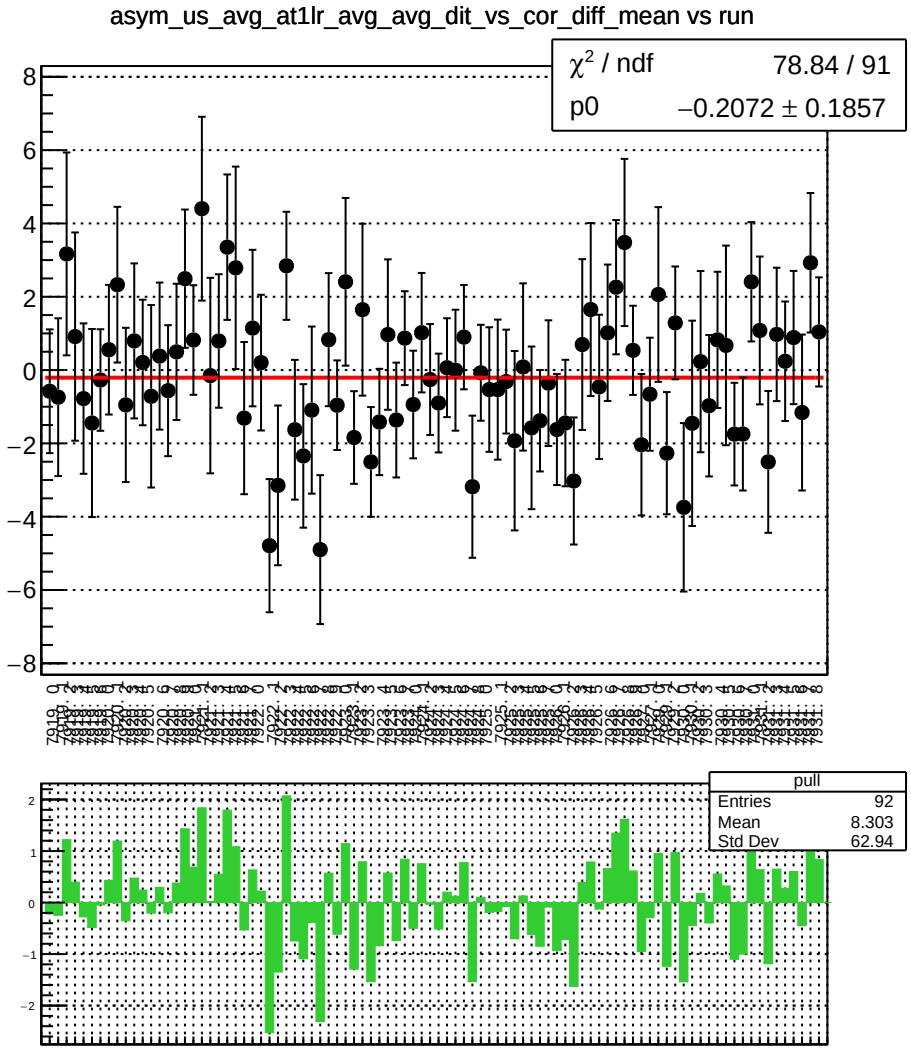

asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 98 / 91
p0 2810 ± 3542
100
50
0
−50
−100
−150
pull
Entries 92
Mean −705.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.002269
Std Dev 1.032
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

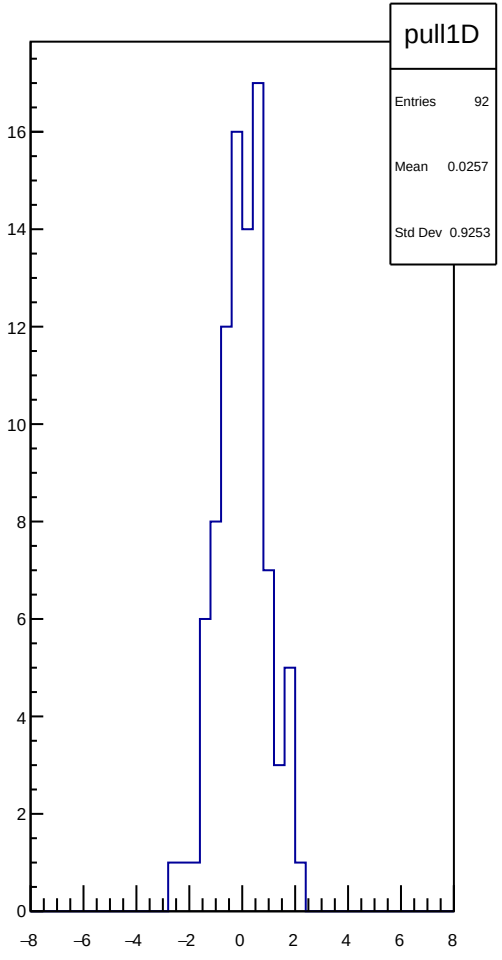

asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 2462 / 91
p0 3342 ± 2.505
3800
3700
3600
3500
3400
3300
3200
3100
3000

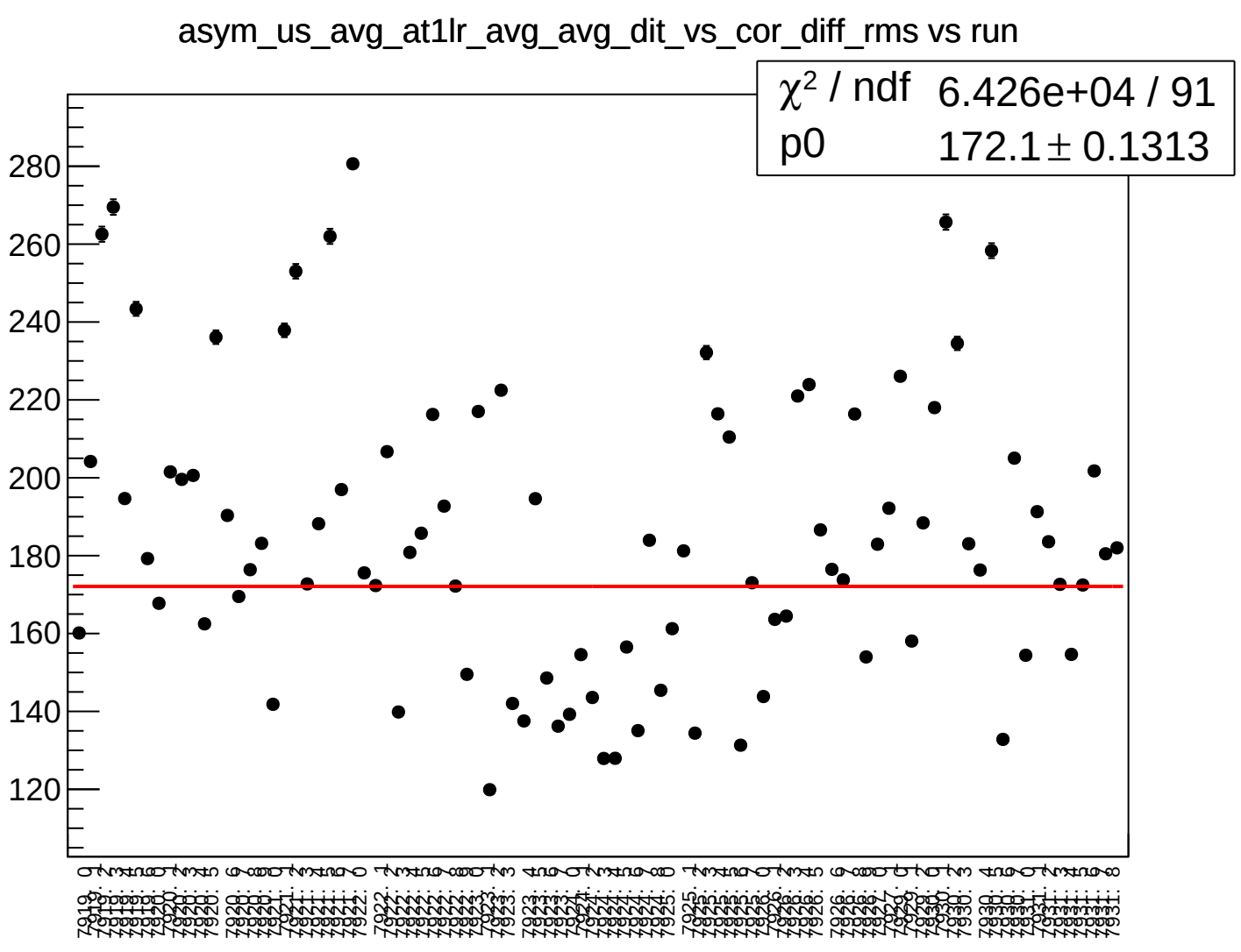

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 79.63 / 91
p0 1.395e−13 ± 3.795e−13
pull
Entries 92
Mean 420.1
Std Dev 0

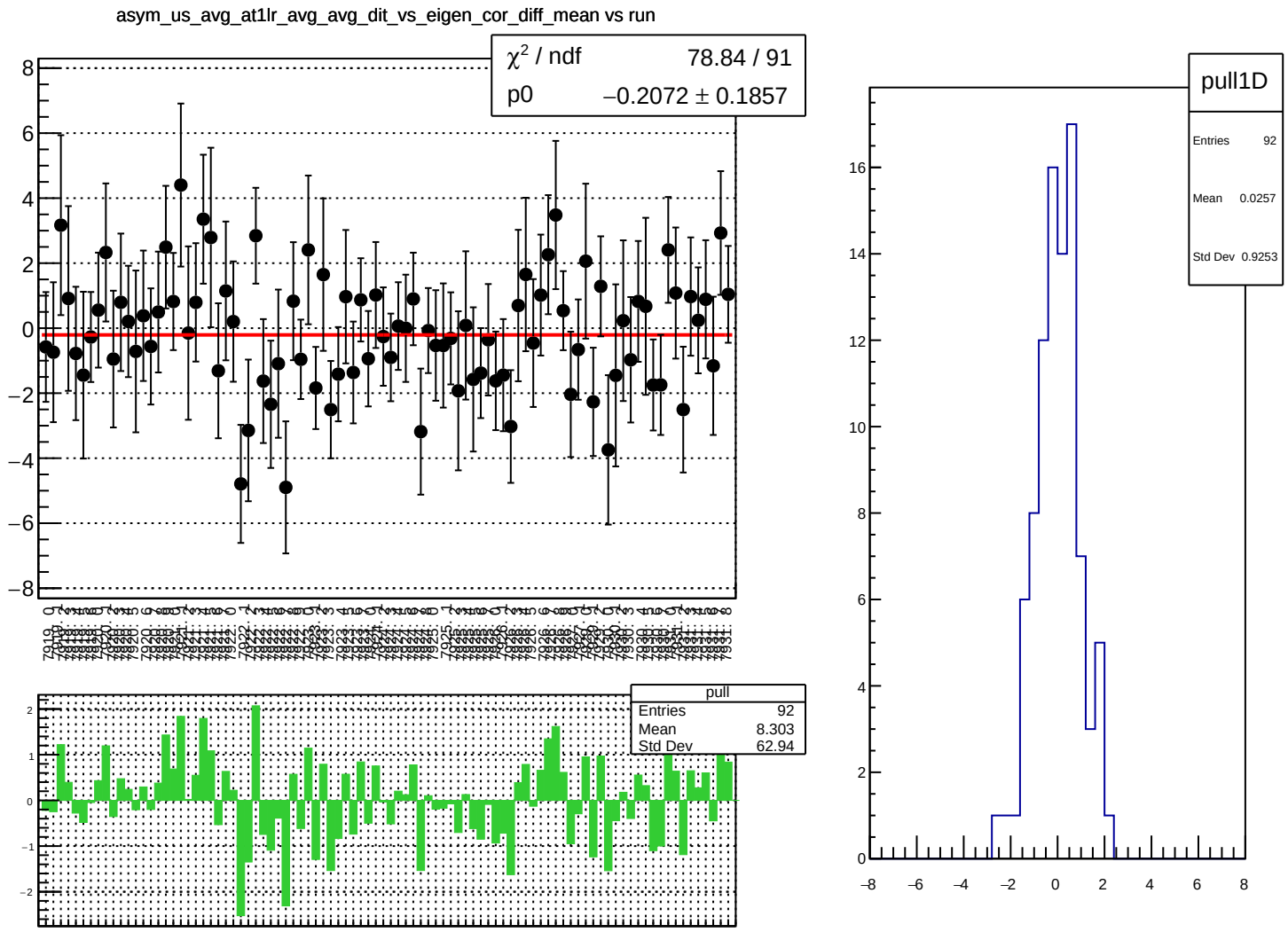

pull1D
Entries 92
Mean −0.00665
Std Dev 0.9303

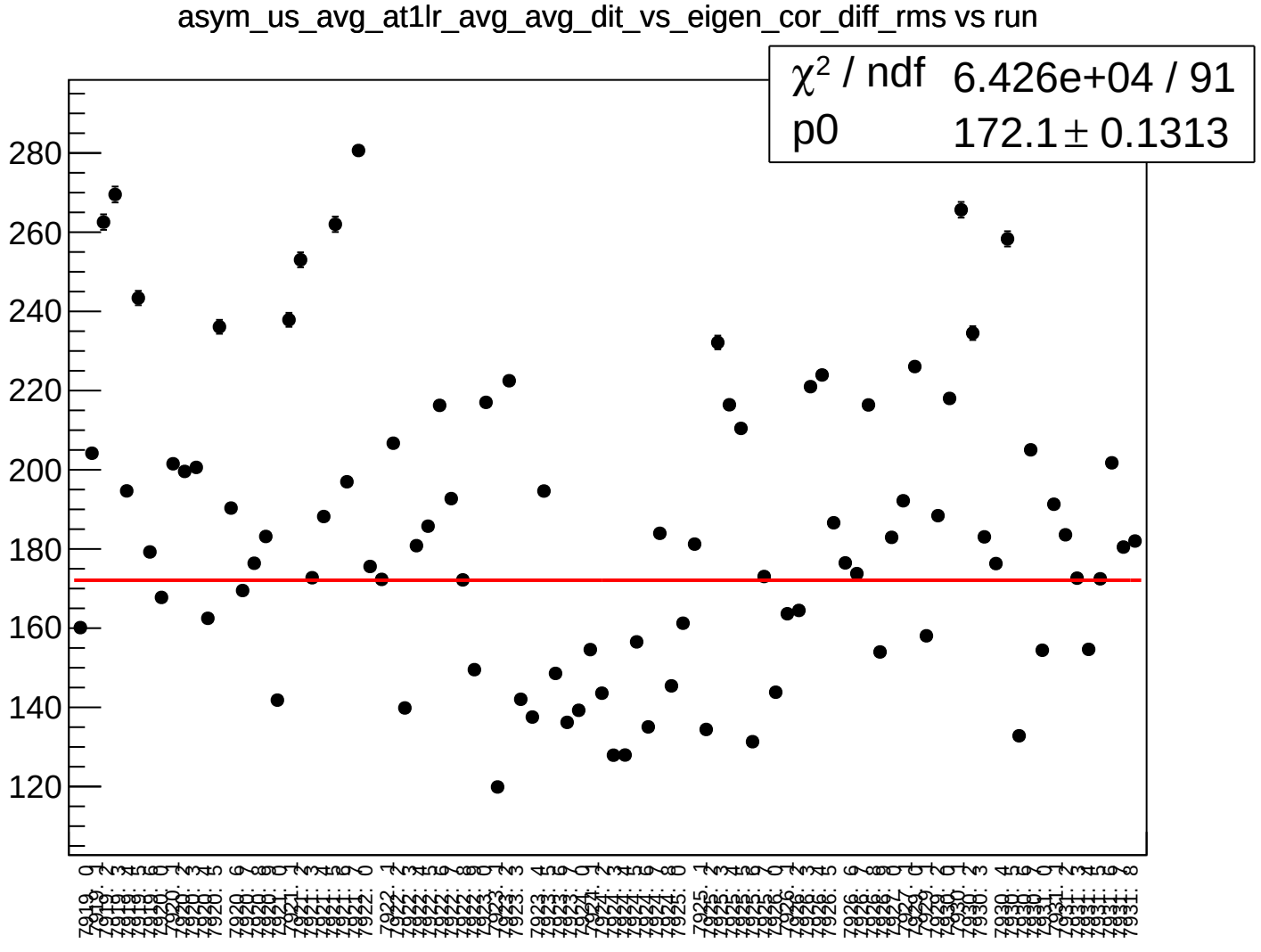

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.004e+06 / 91
p0 2.368e−10 ± 2.683e−13
1
0.8
0.6
0.4
0.2
0

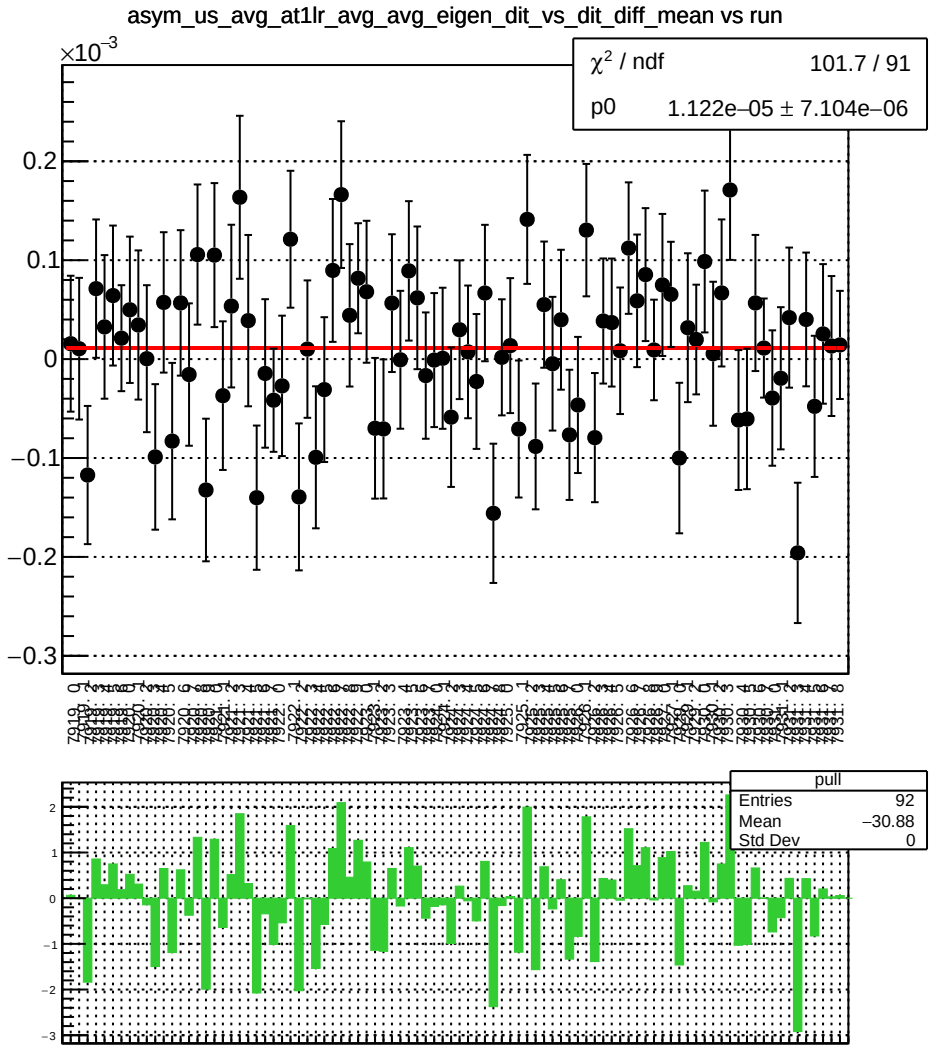

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 78.84 / 91
p0 −0.2072 ± 0.1857
pull
Entries 92
Mean 8.303
Std Dev 62.94

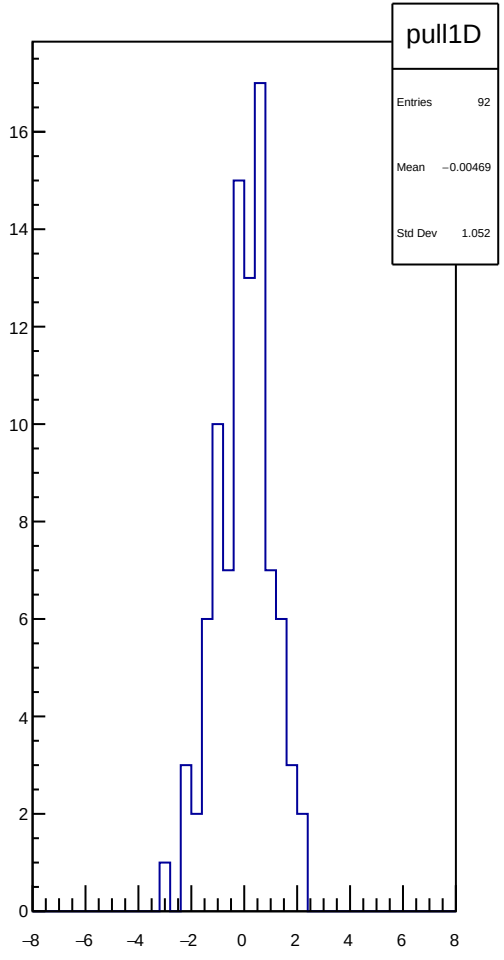

pull1D
Entries 92
Mean 0.0257
Std Dev 0.9253

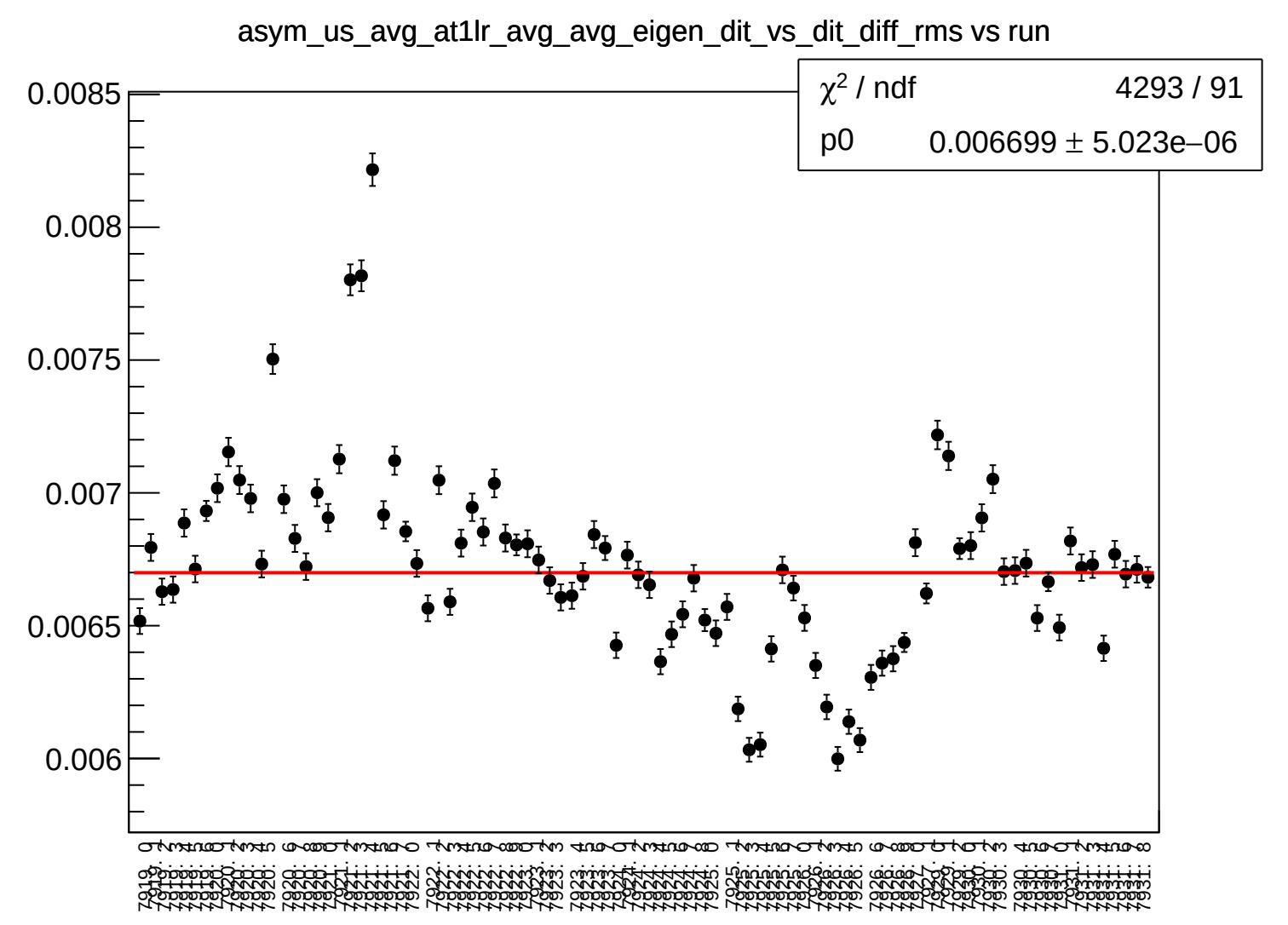

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.426e+04 / 91
p0 172.1 ± 0.1313
280
260
240
220
200
180
160
140
120

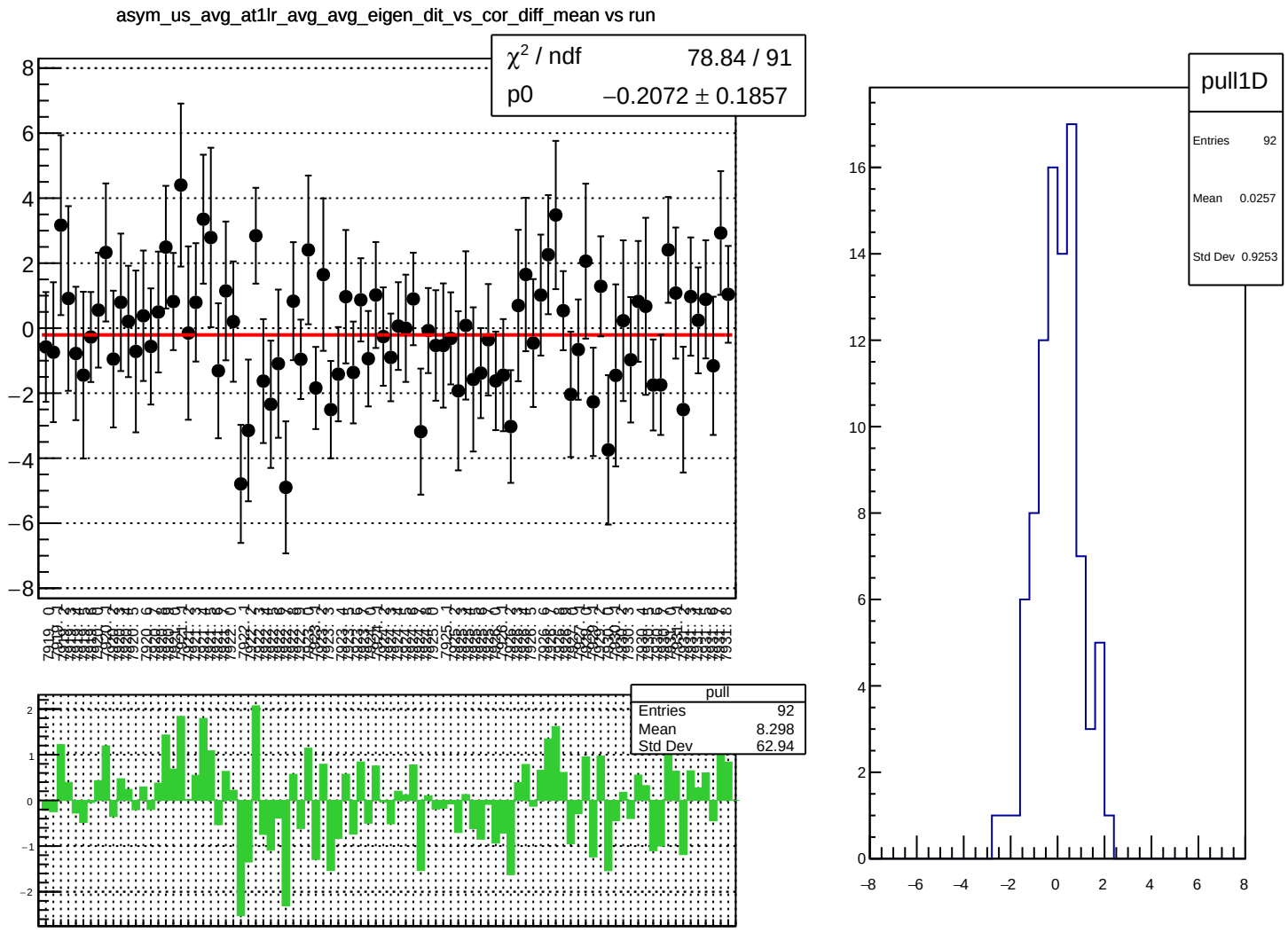

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.84 / 91
p0 −0.2072 ± 0.1857
pull
Entries 92
Mean 8.303
Std Dev 62.94
pull1D
Entries 92
Mean 0.0257
Std Dev 0.9253

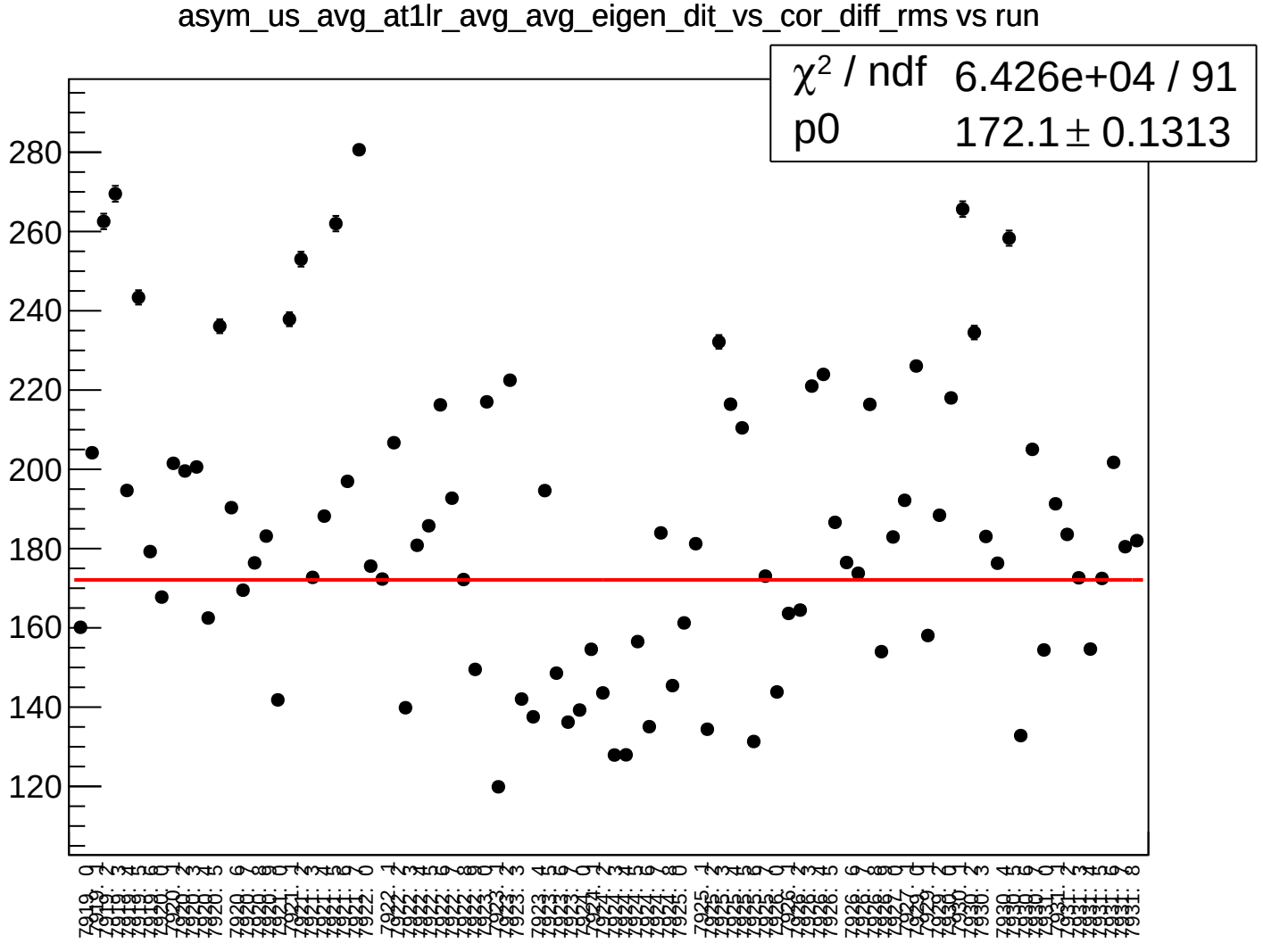

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.426e+04 / 91
p0 172.1 ± 0.1313
280
260
240
220
200
180
160
140
120

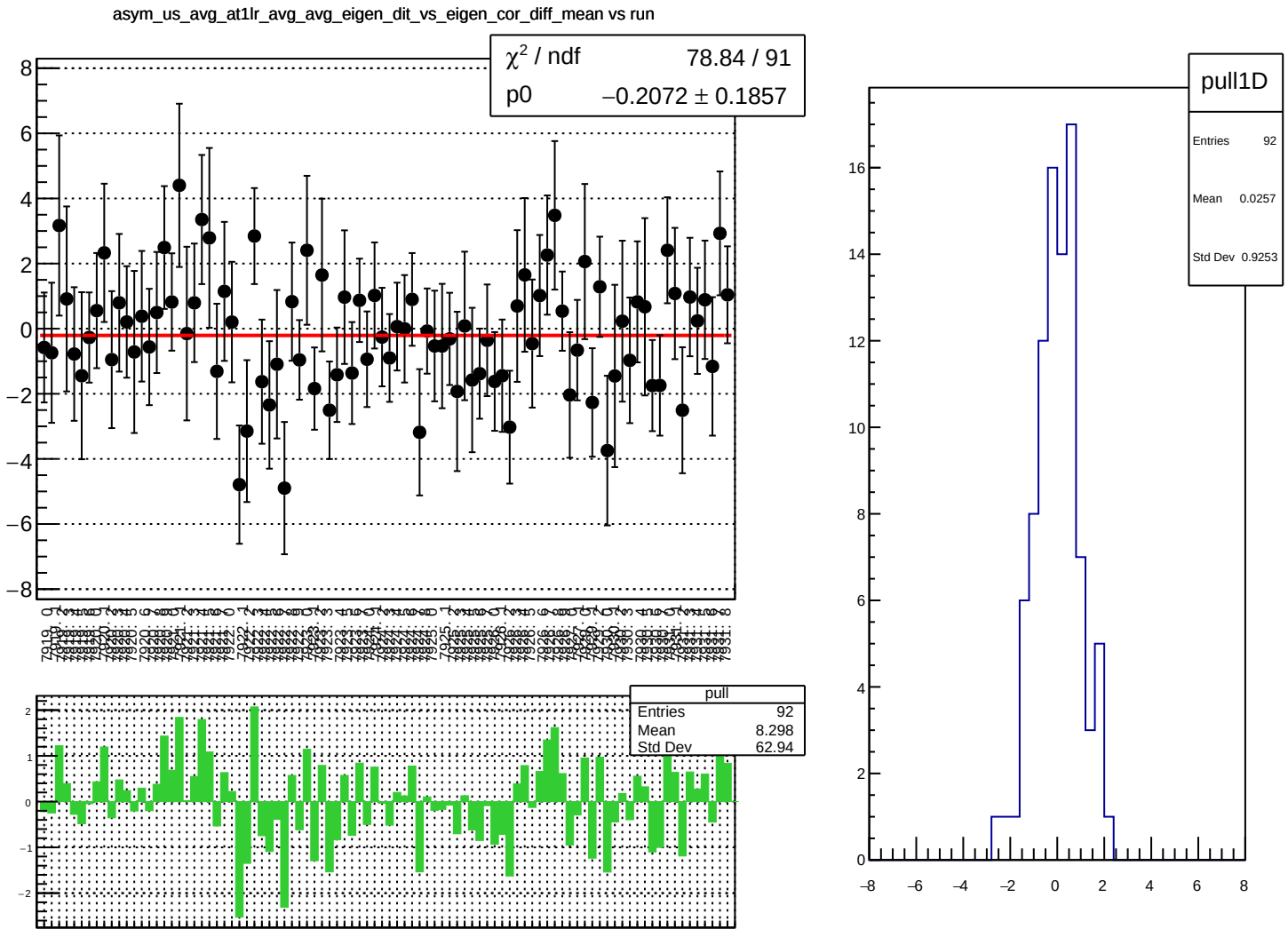

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 101.7 / 91
p0 1.122e−05 ± 7.104e−06
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 92
Mean −30.88
Std Dev 0
2
1
0
−1
−2
−3

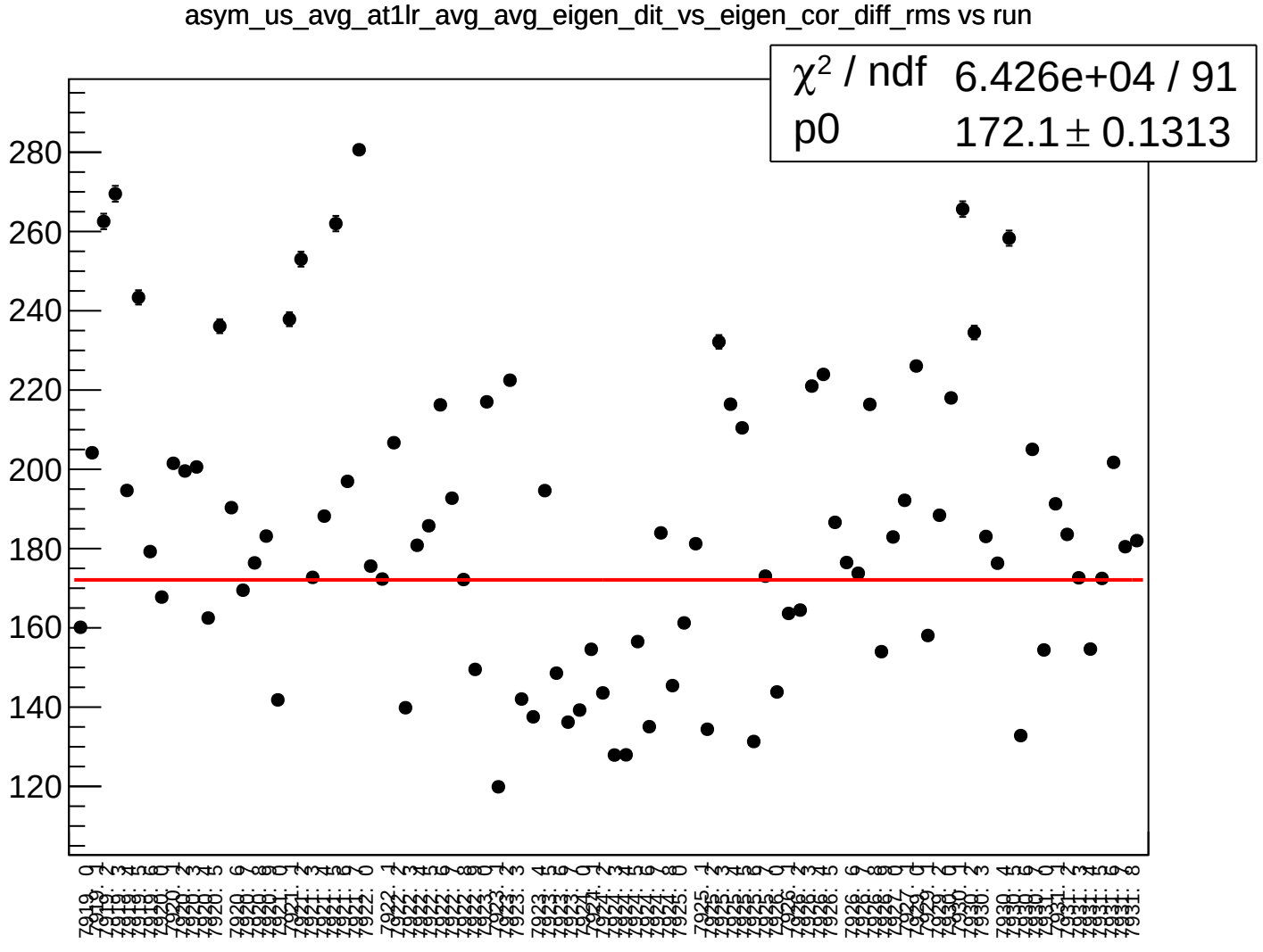

pull1D
Entries 92
Mean −0.00469
Std Dev 1.052
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

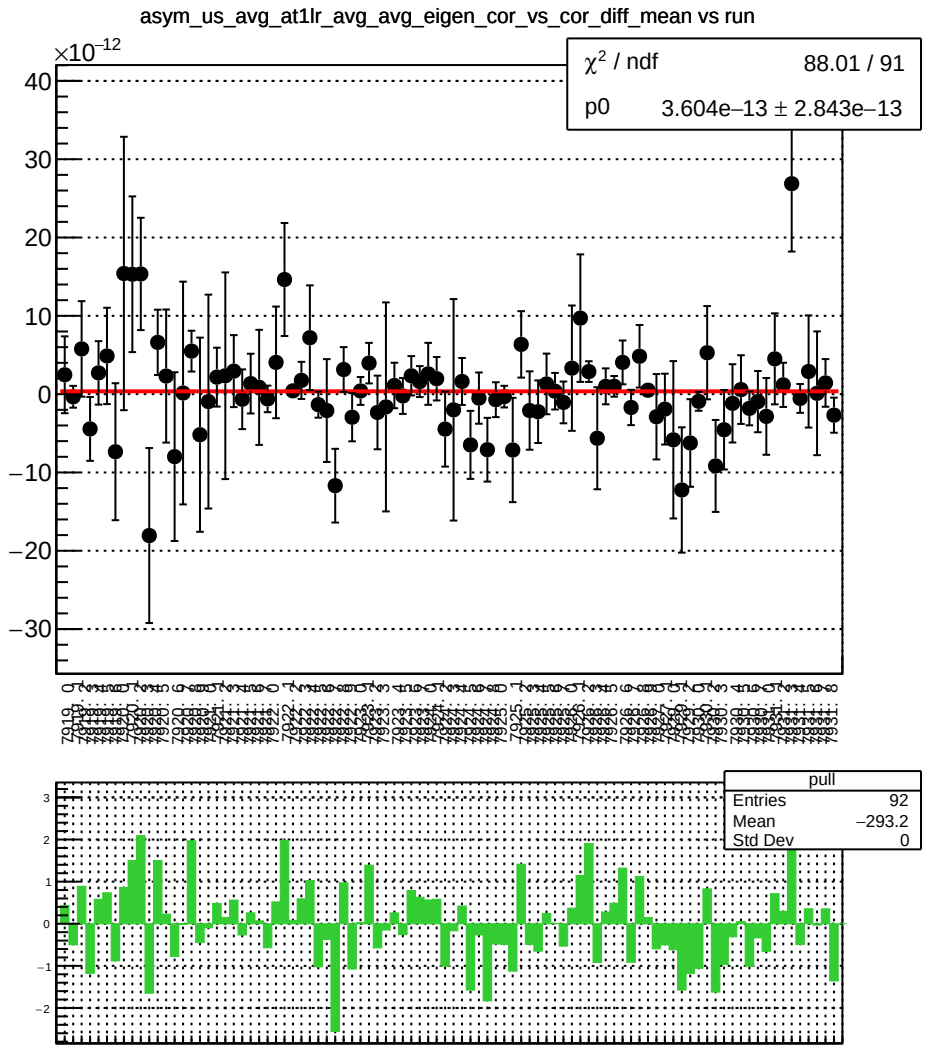

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4293 / 91
p0 0.006699 ± 5.023e−06
0.0085
0.008
0.0075
0.007
0.0065
0.006

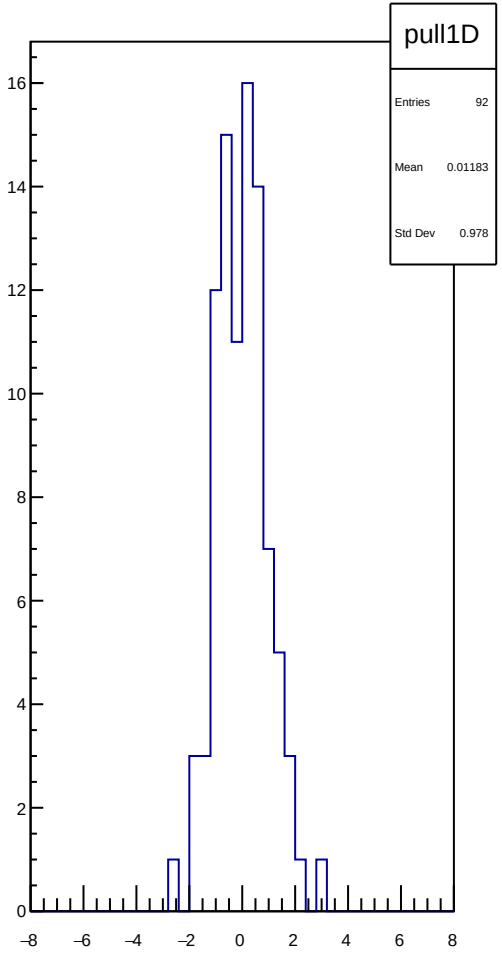

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.84 / 91
p0 −0.2072 ± 0.1857
pull
Entries 92
Mean 8.298
Std Dev 62.94
pull1D
Entries 92
Mean 0.0257
Std Dev 0.9253

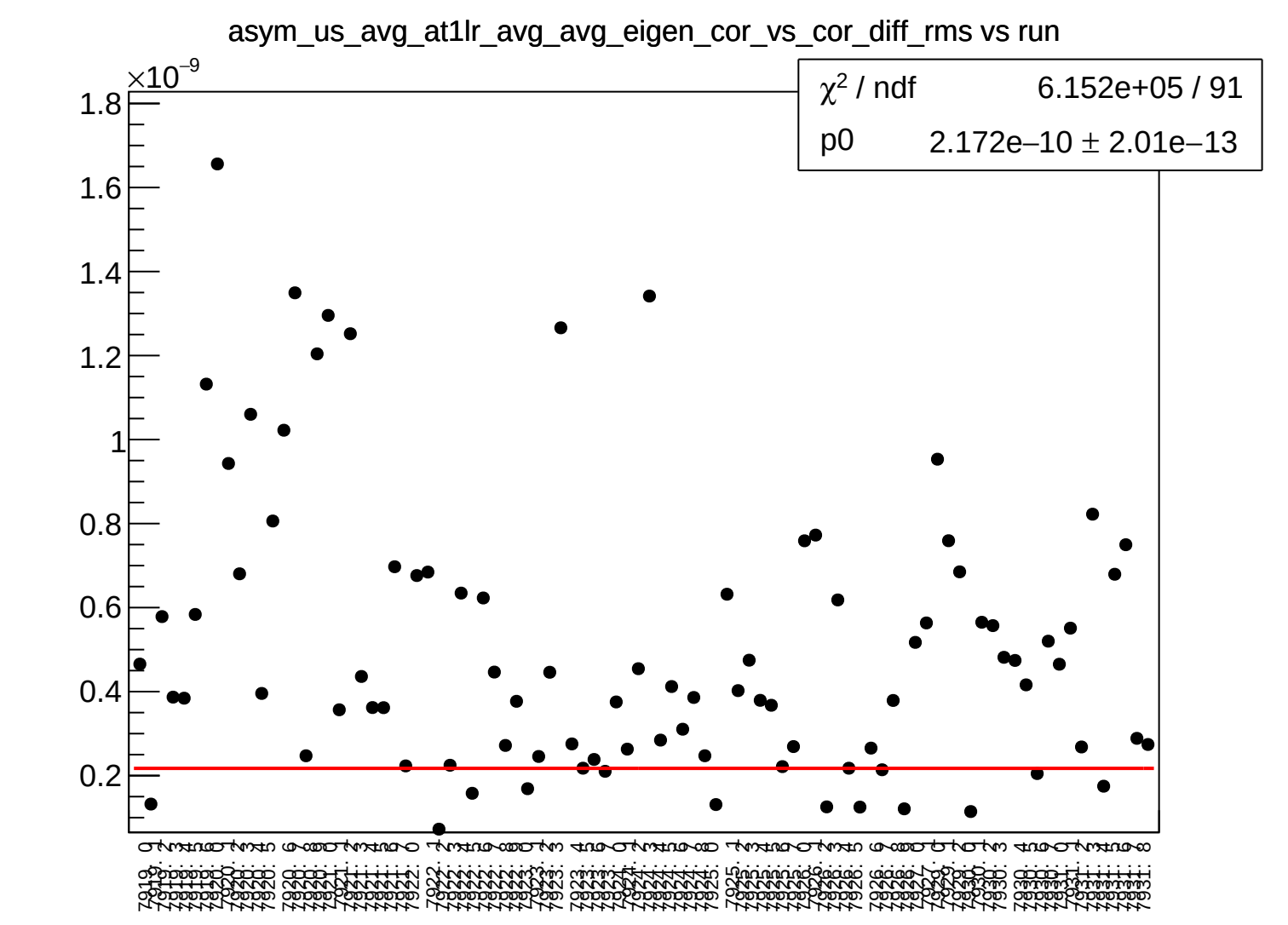

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.426e+04 / 91
p0 172.1 ± 0.1313
280
260
240
220
200
180
160
140
120

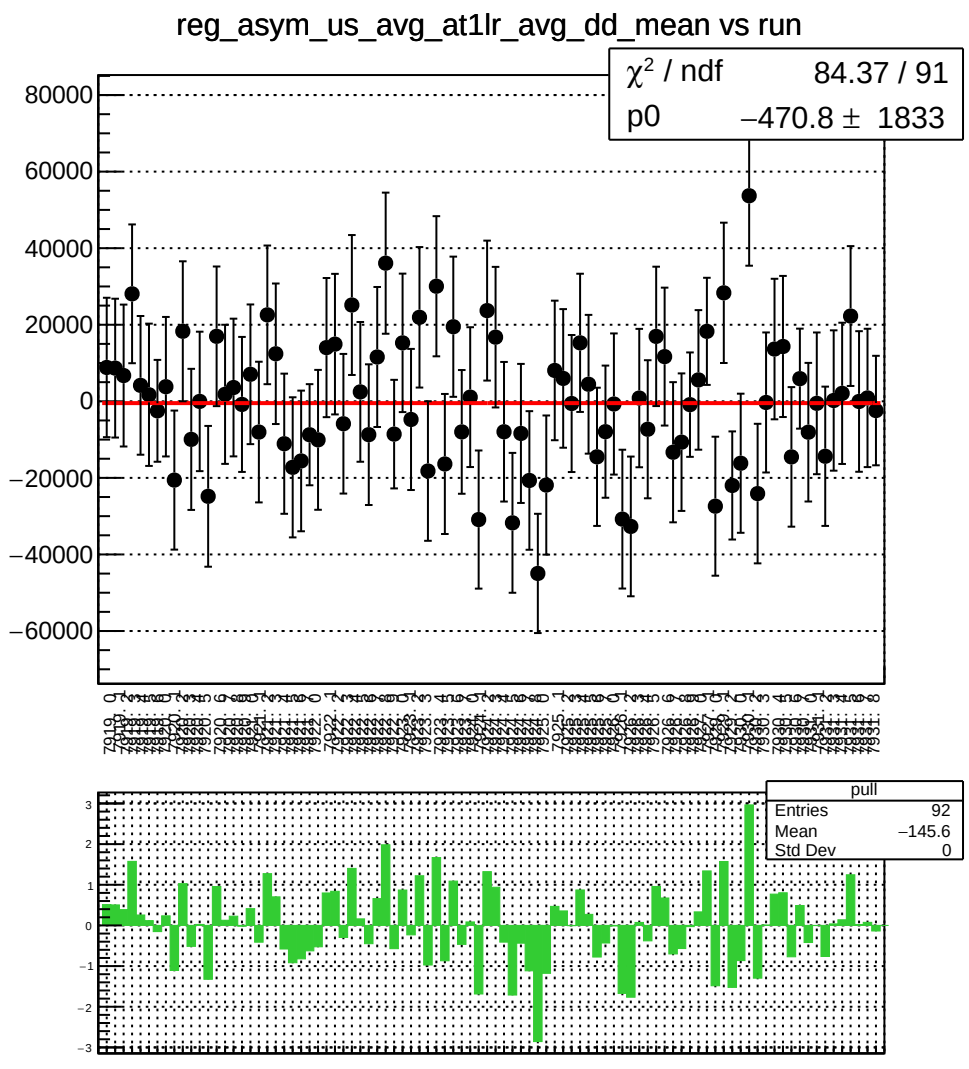

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.84 / 91
p0 −0.2072 ± 0.1857
pull
Entries 92
Mean 8.298
Std Dev 62.94
pull1D
Entries 92
Mean 0.0257
Std Dev 0.9253

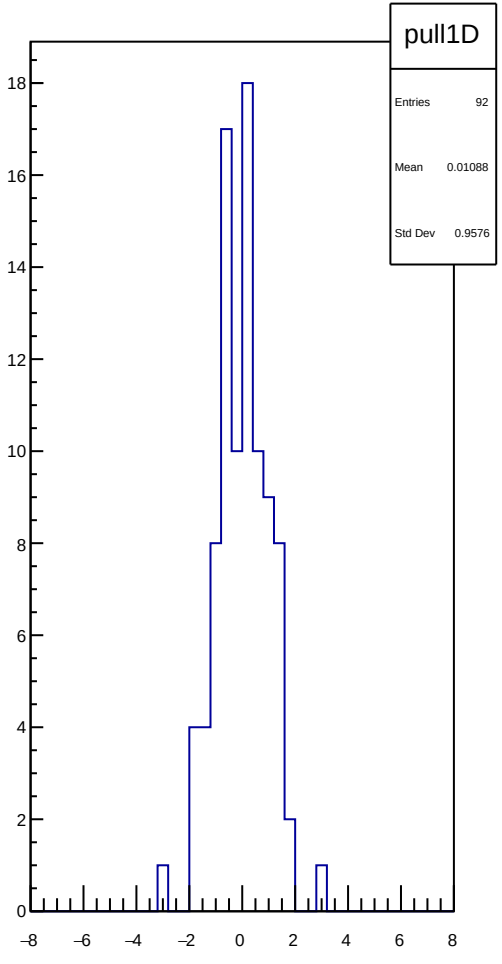

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.426e+04 / 91
p0 172.1 ± 0.1313
280
260
240
220
200
180
160
140
120

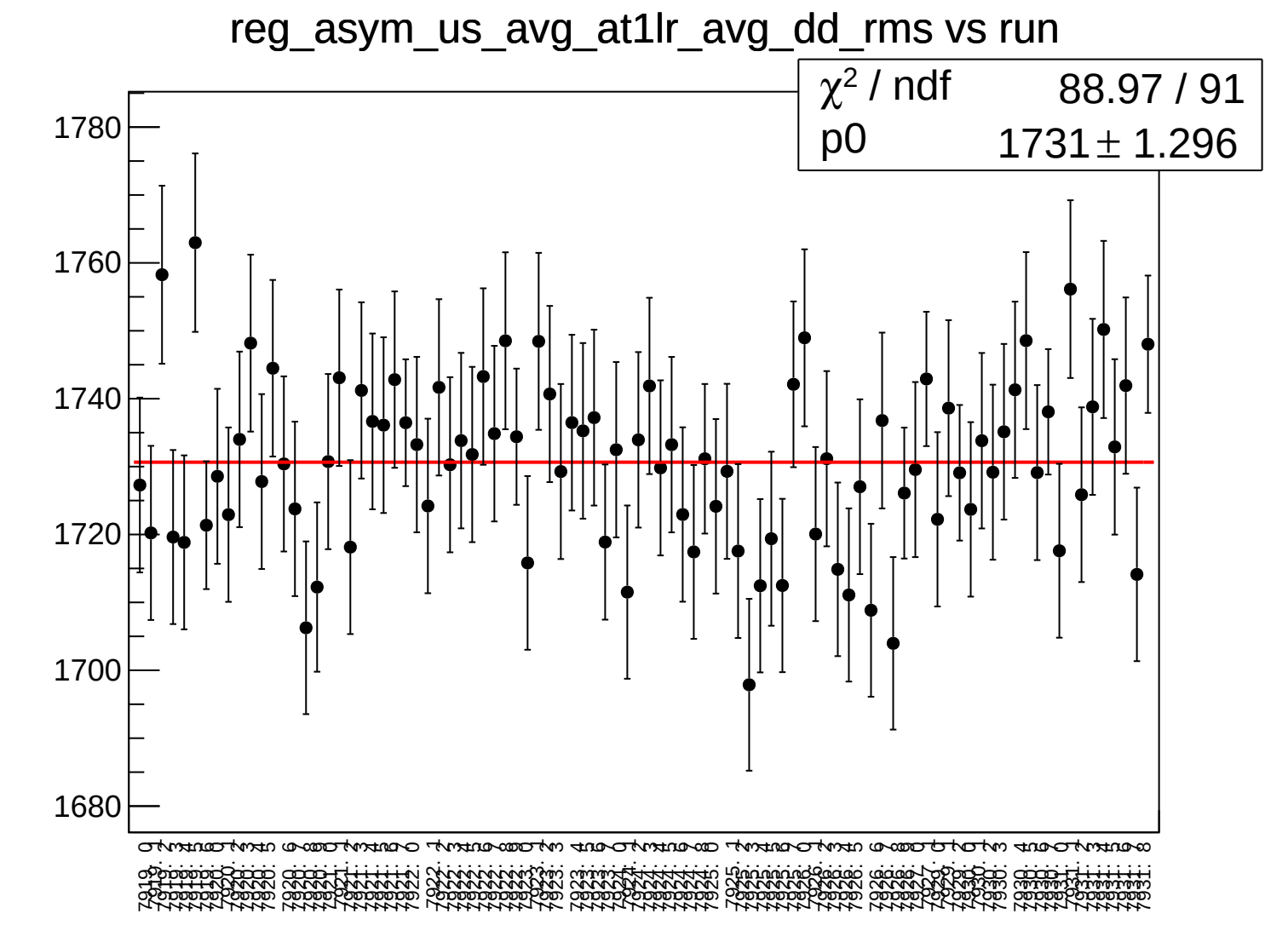

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.01 / 91
p0 3.604e−13 ± 2.843e−13
pull
Entries 92
Mean −293.2
Std Dev 0

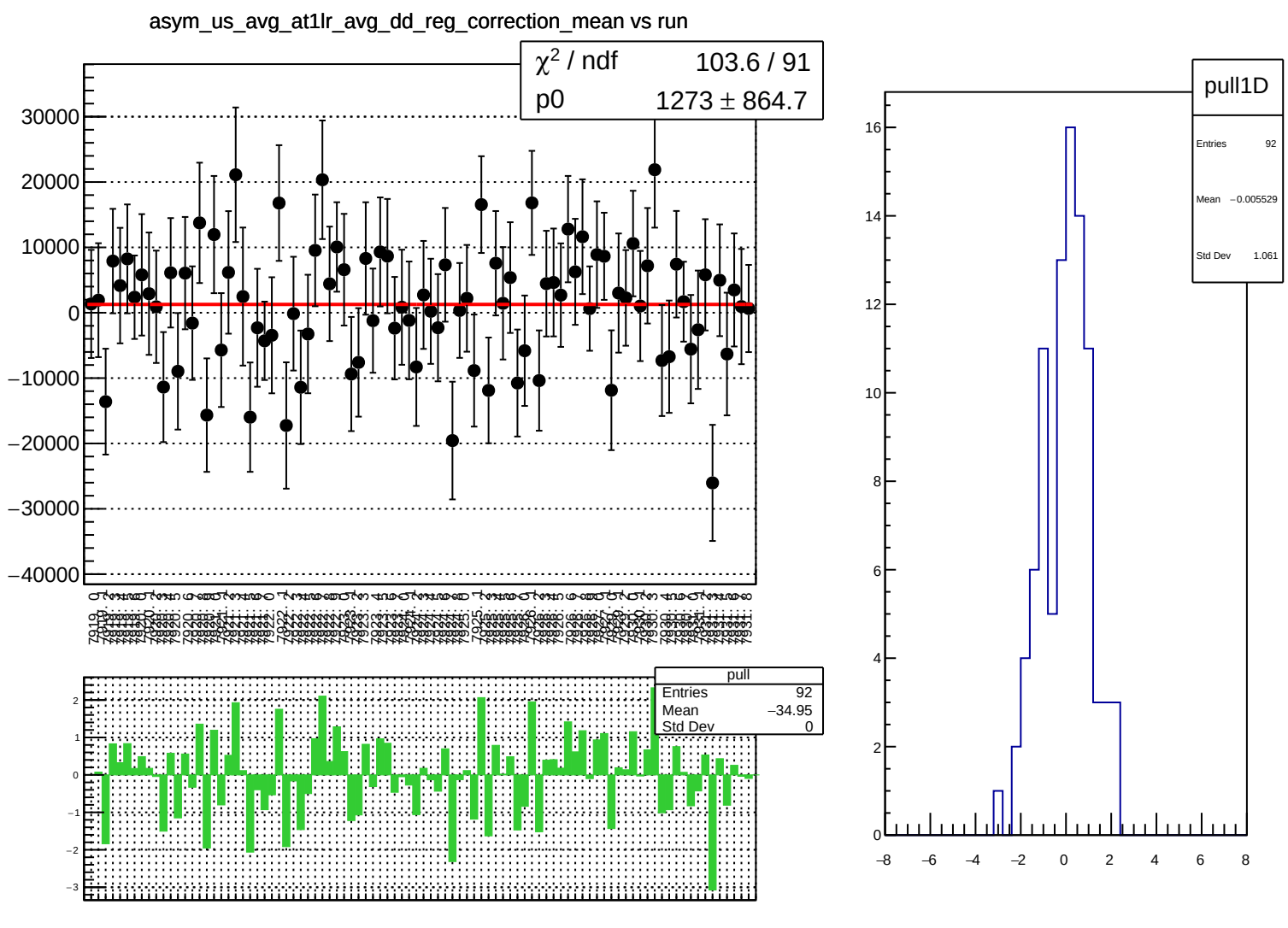

pull1D
Entries 92
Mean 0.01183
Std Dev 0.978

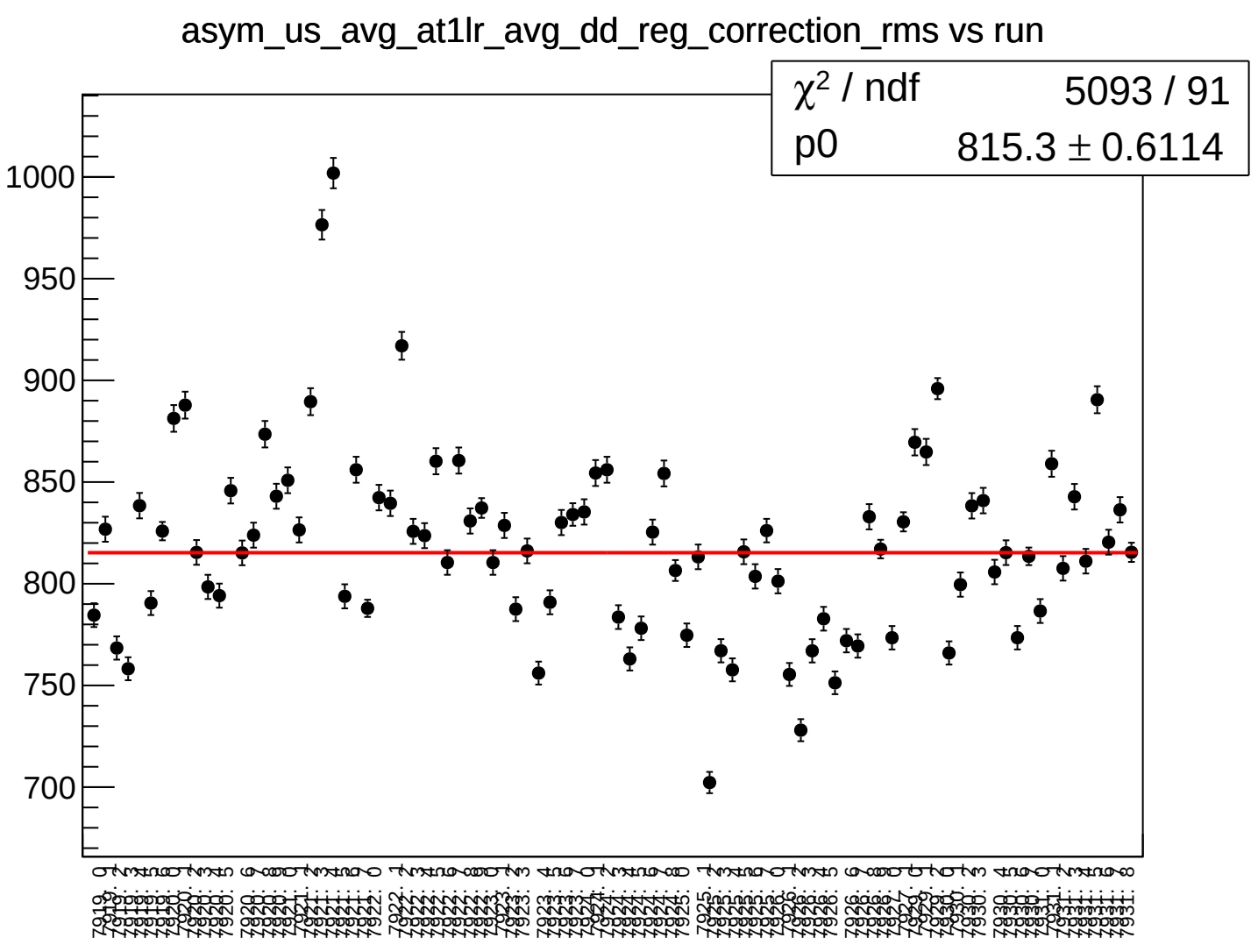

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.152e+05 / 91
p0 2.172e−10 ± 2.01e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

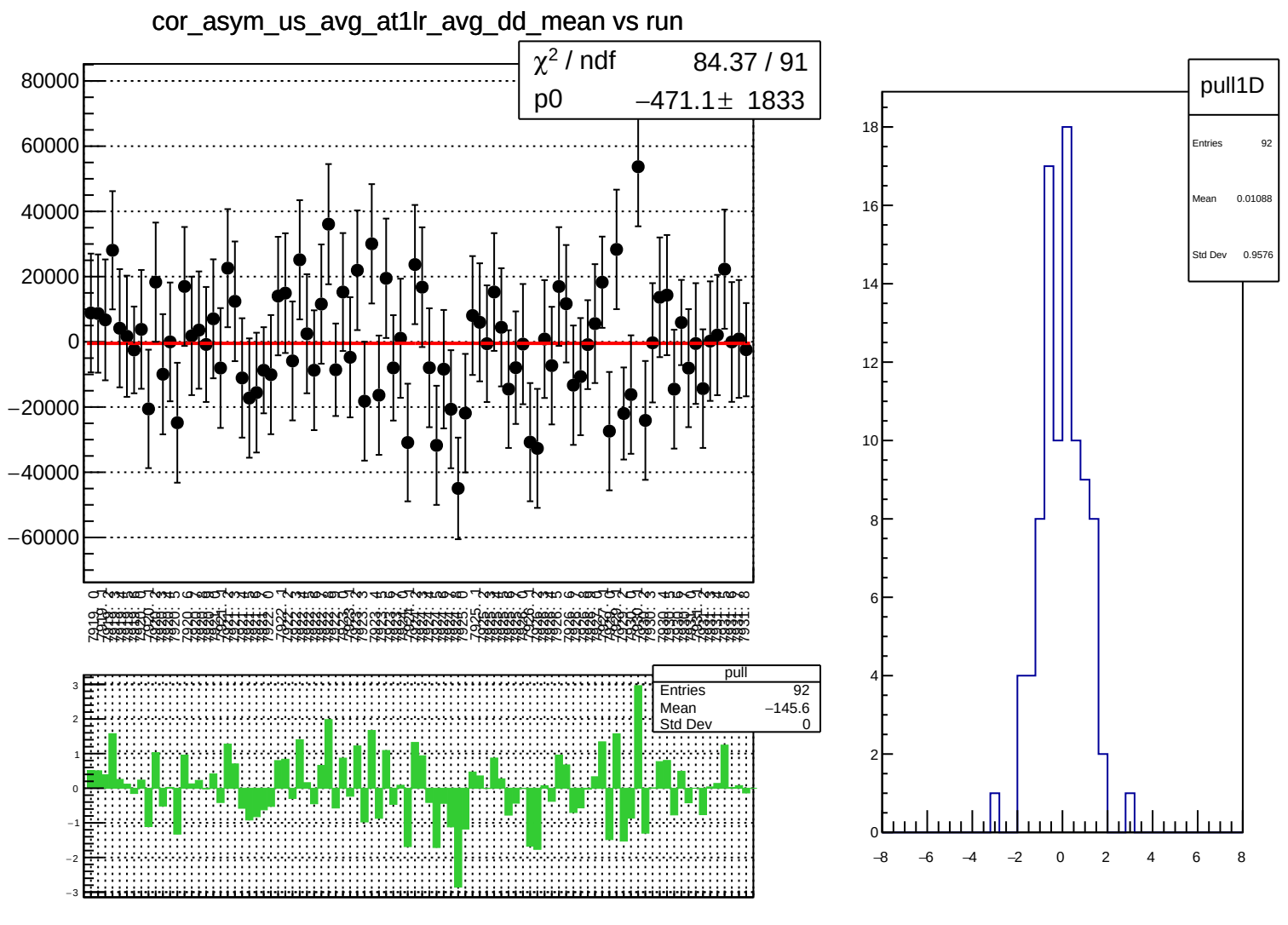

reg_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 84.37 / 91
p0 −470.8 ± 1833
pull
Entries 92
Mean −145.6
Std Dev 0

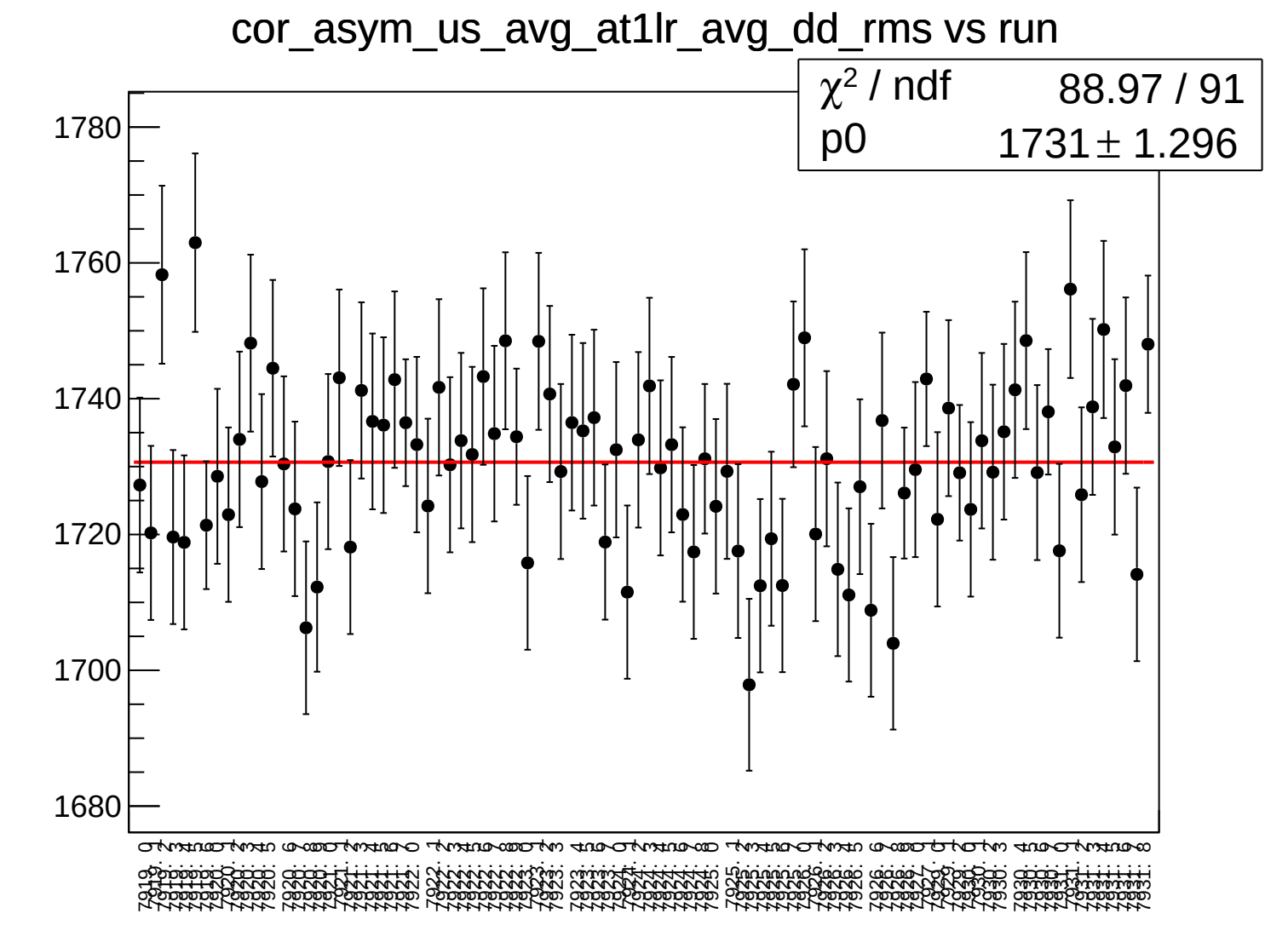

pull1D
Entries 92
Mean 0.01088
Std Dev 0.9576

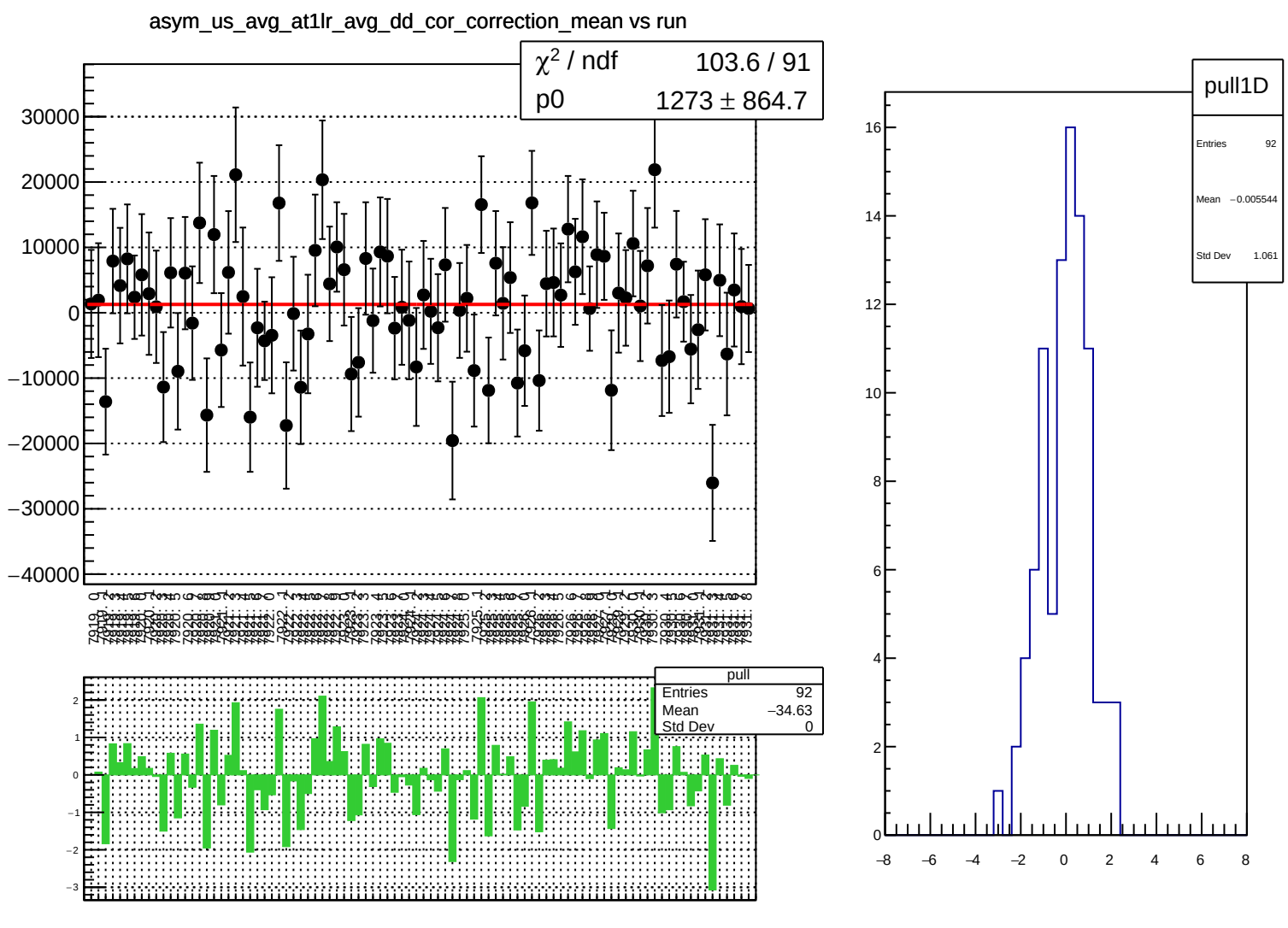

reg_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 88.97 / 91
p0 1731 ± 1.296
1780
1760
1740
1720
1700
1680

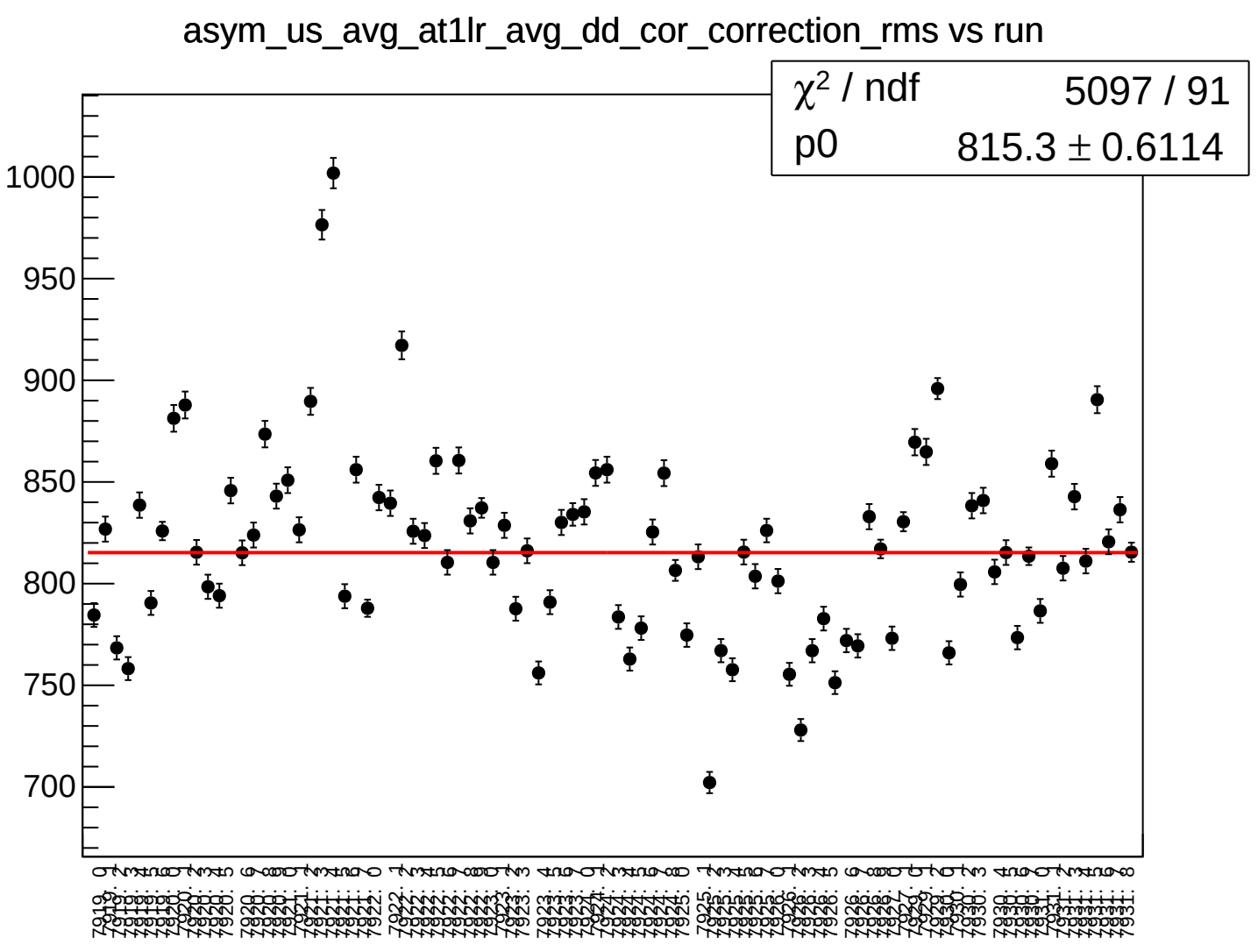

asym_us_avg_at1lr_avg_dd_reg_correction_mean vs run
χ² / ndf 103.6 / 91
p0 1273 ± 864.7
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 92
Mean −34.95
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.005529
Std Dev 1.061
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

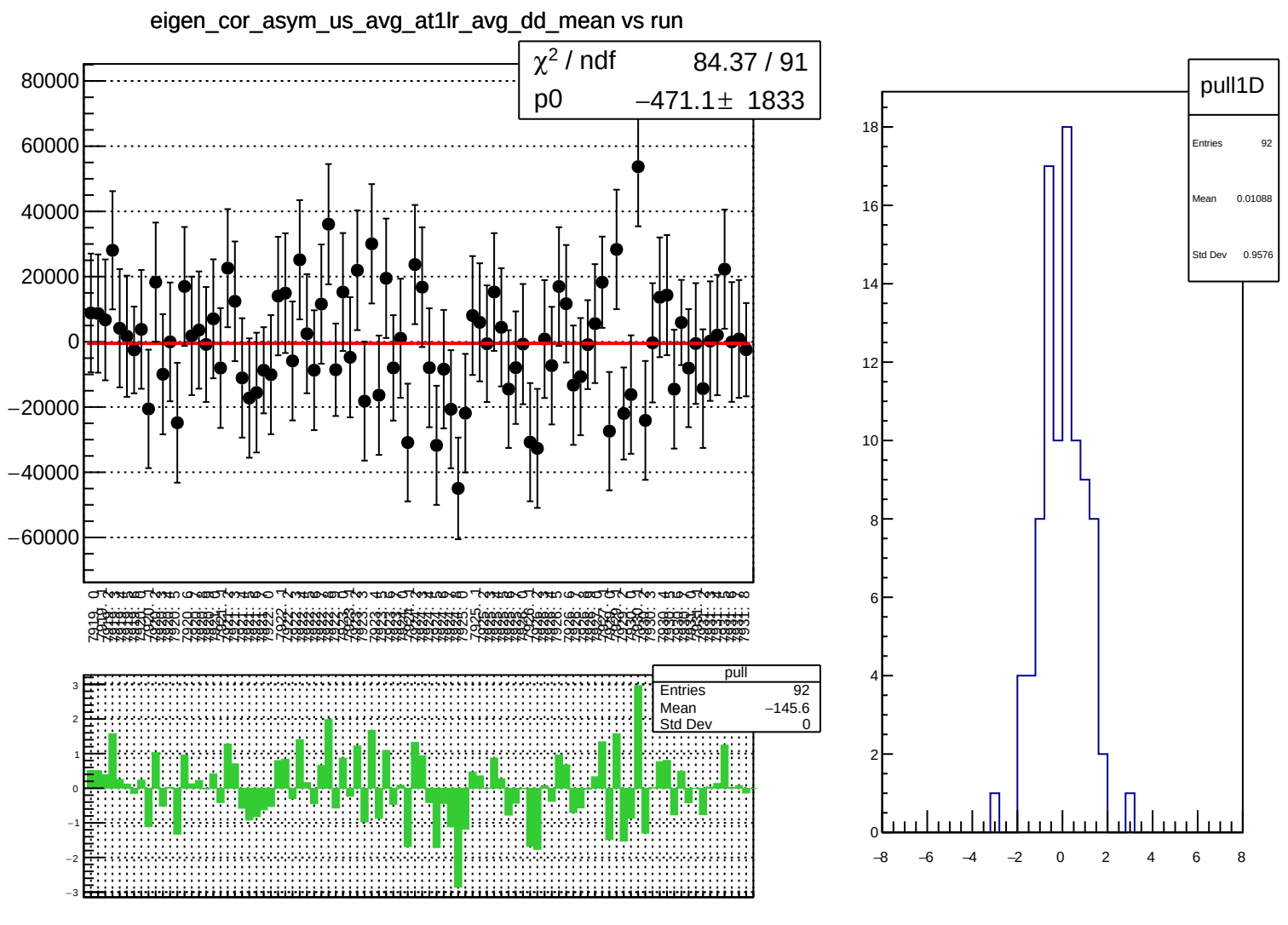

asym_us_avg_at1lr_avg_dd_reg_correction_rms vs run
χ² / ndf 5093 / 91
p0 815.3 ± 0.6114
1000
950
900
850
800
750
700

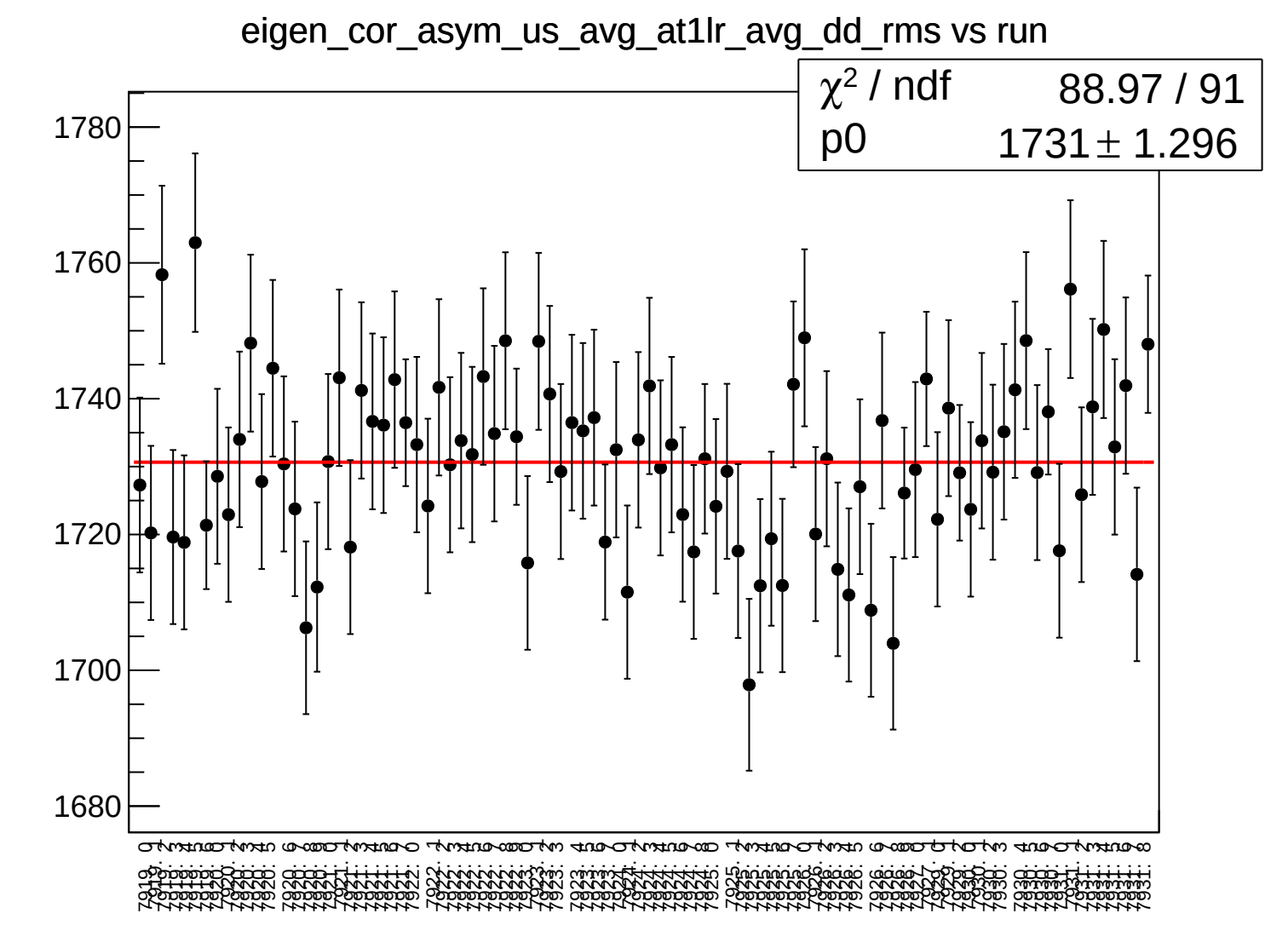

cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 84.37 / 91
p0 −471.1± 1833
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −145.6
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean 0.01088
Std Dev 0.9576
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

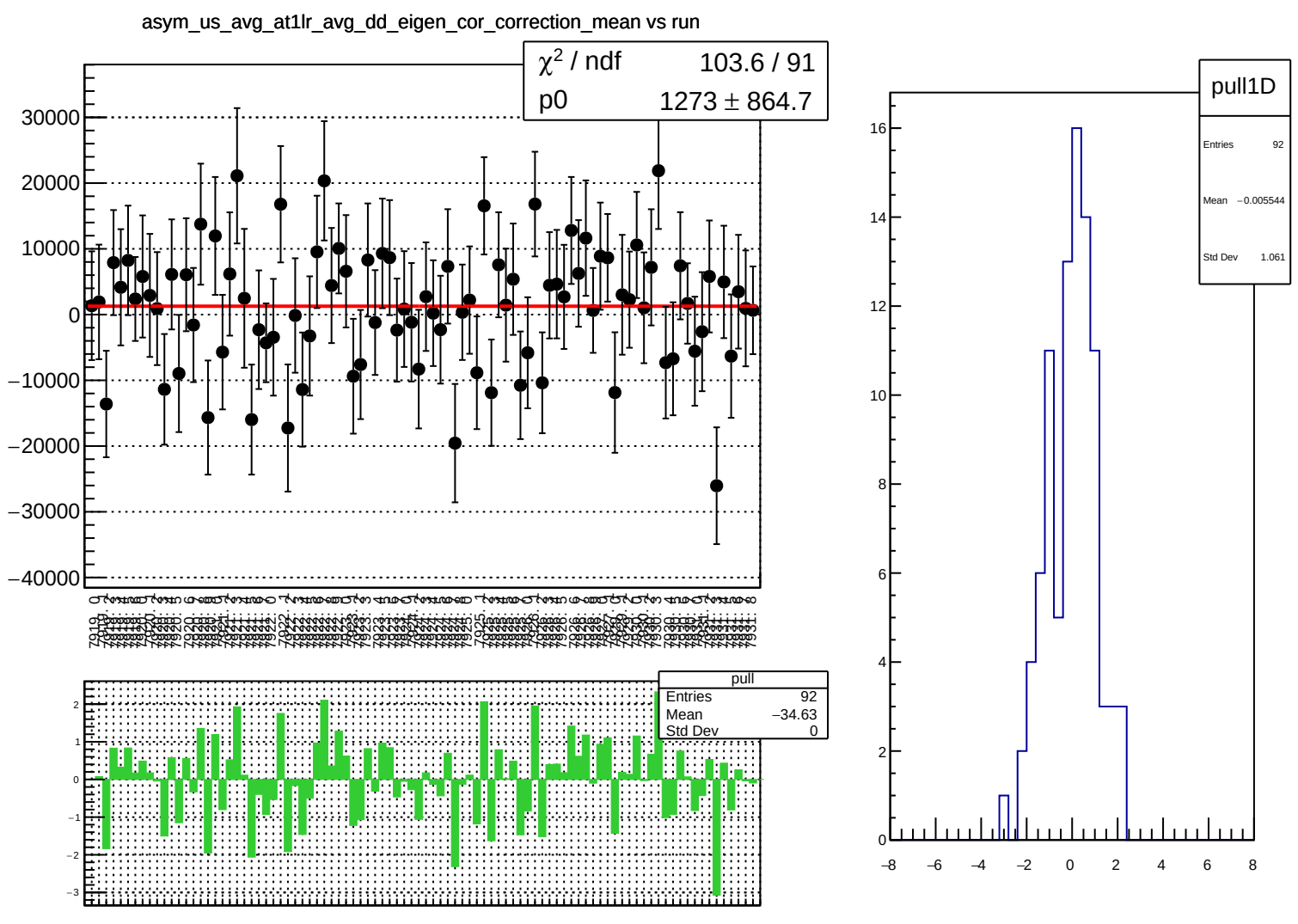

cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 88.97 / 91
p0 1731 ± 1.296
1780
1760
1740
1720
1700
1680

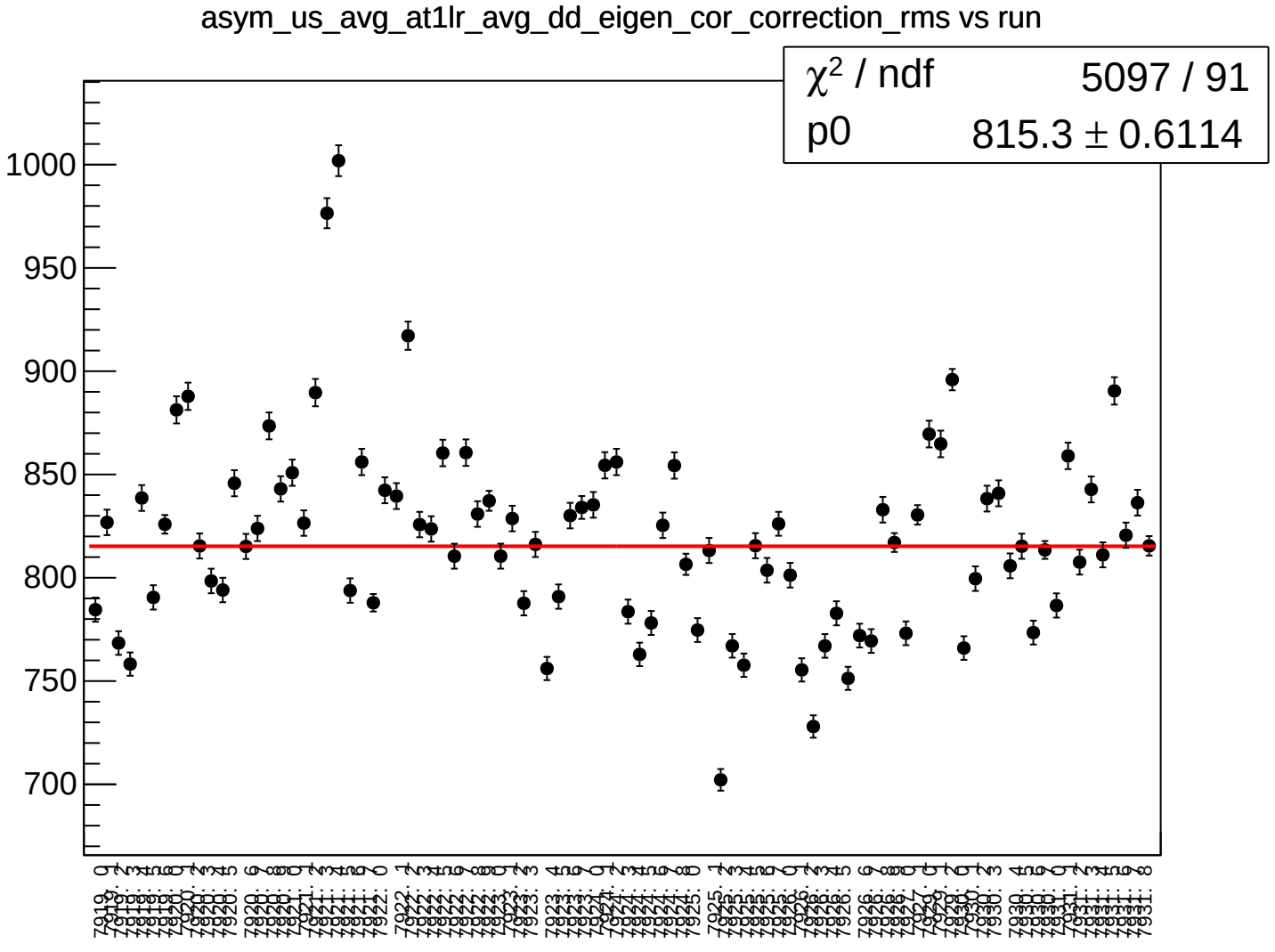

asym_us_avg_at1lr_avg_dd_cor_correction_mean vs run
χ² / ndf 103.6 / 91
p0 1273 ± 864.7
pull
Entries 92
Mean −34.63
Std Dev 0
pull1D
Entries 92
Mean −0.005544
Std Dev 1.061

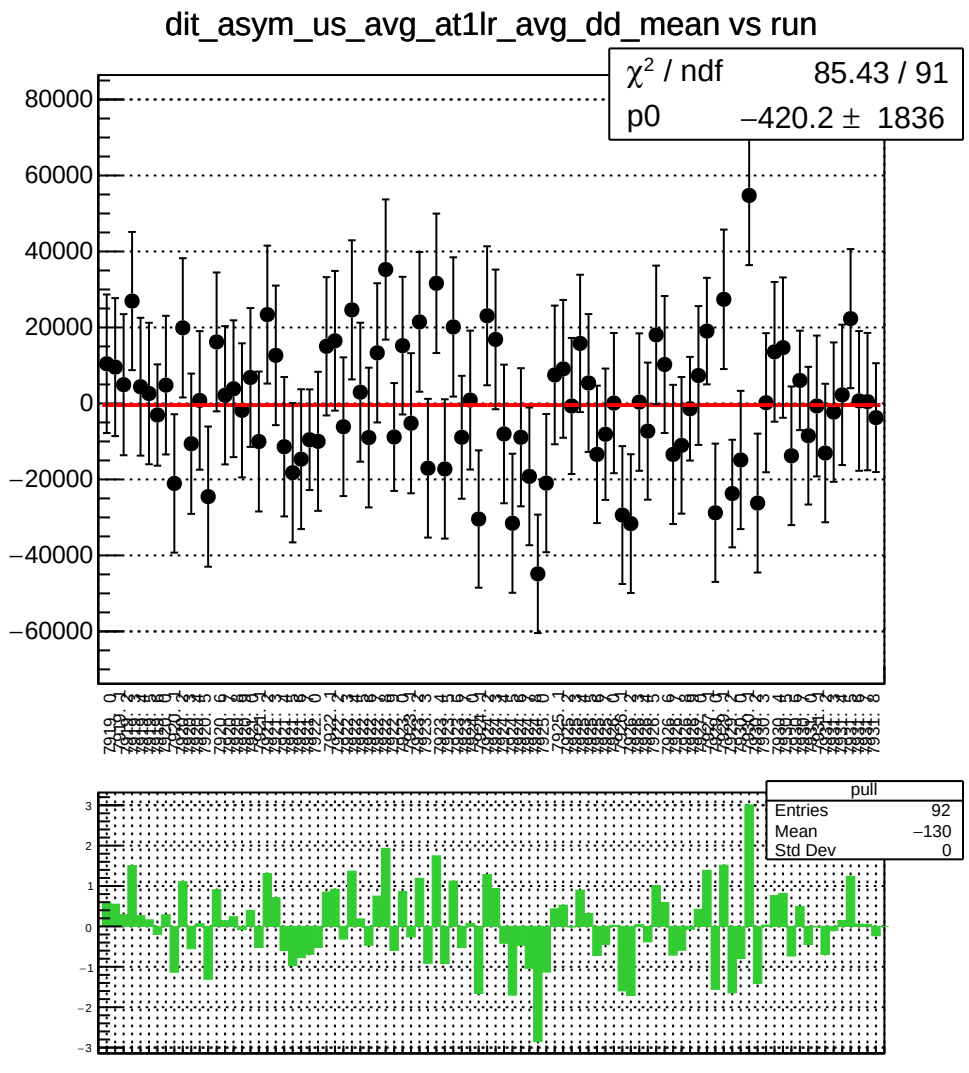

asym_us_avg_at1lr_avg_dd_cor_correction_rms vs run
χ² / ndf 5097 / 91
p0 815.3 ± 0.6114
1000
950
900
850
800
750
700

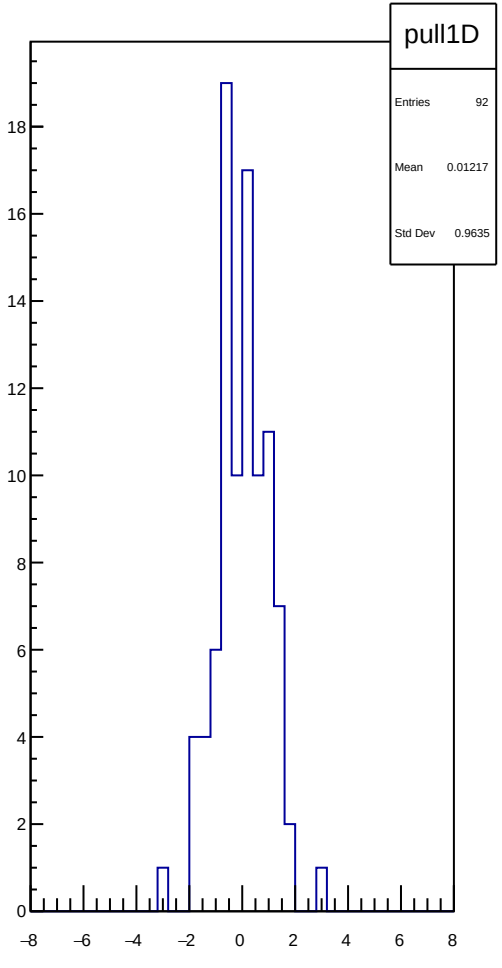

eigen_cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 84.37 / 91
p0 −471.1± 1833
pull
Entries 92
Mean −145.6
Std Dev 0
pull1D
Entries 92
Mean 0.01088
Std Dev 0.9576

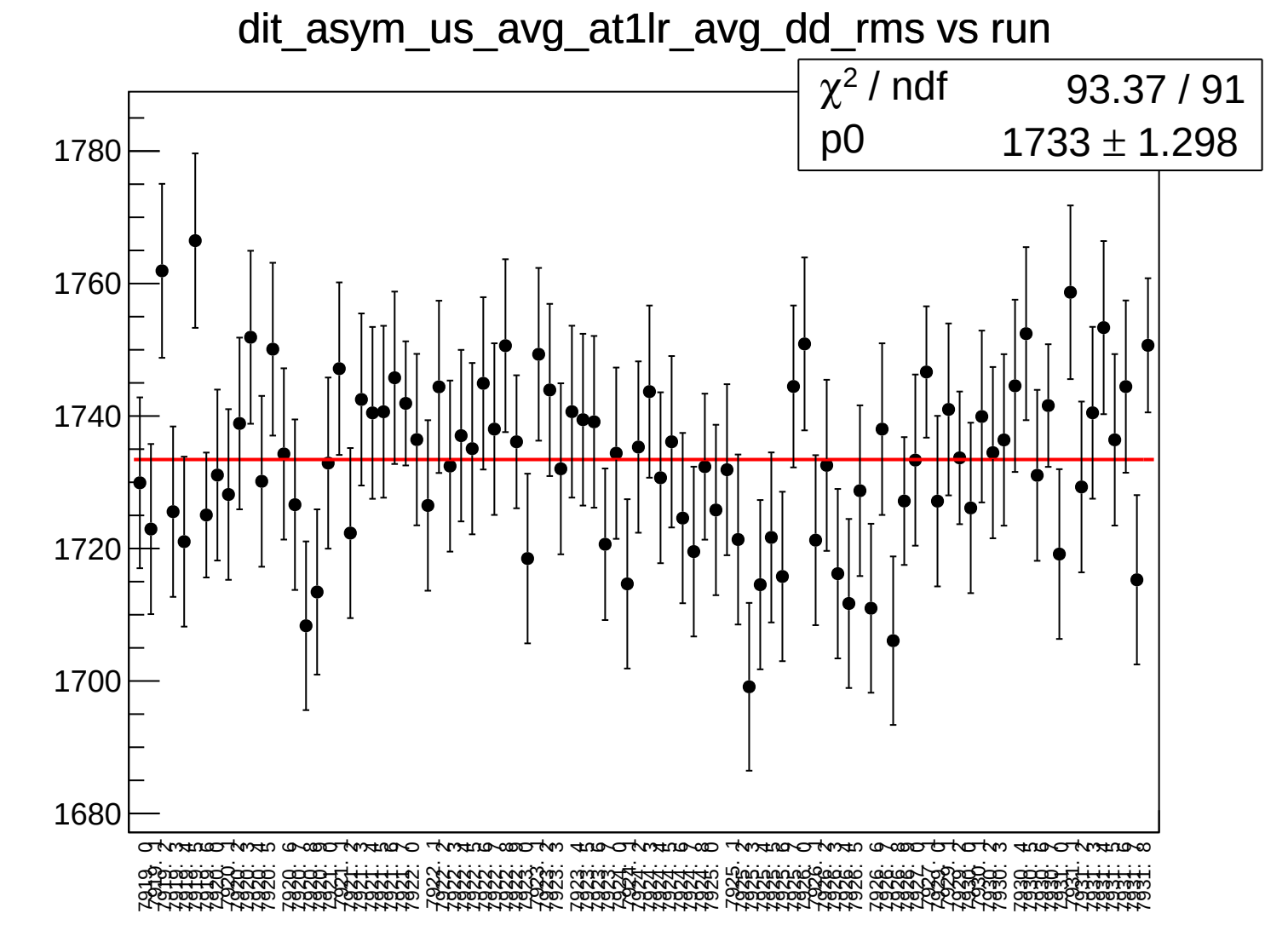

eigen_cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 88.97 / 91
p0 1731 ± 1.296
1780
1760
1740
1720
1700
1680

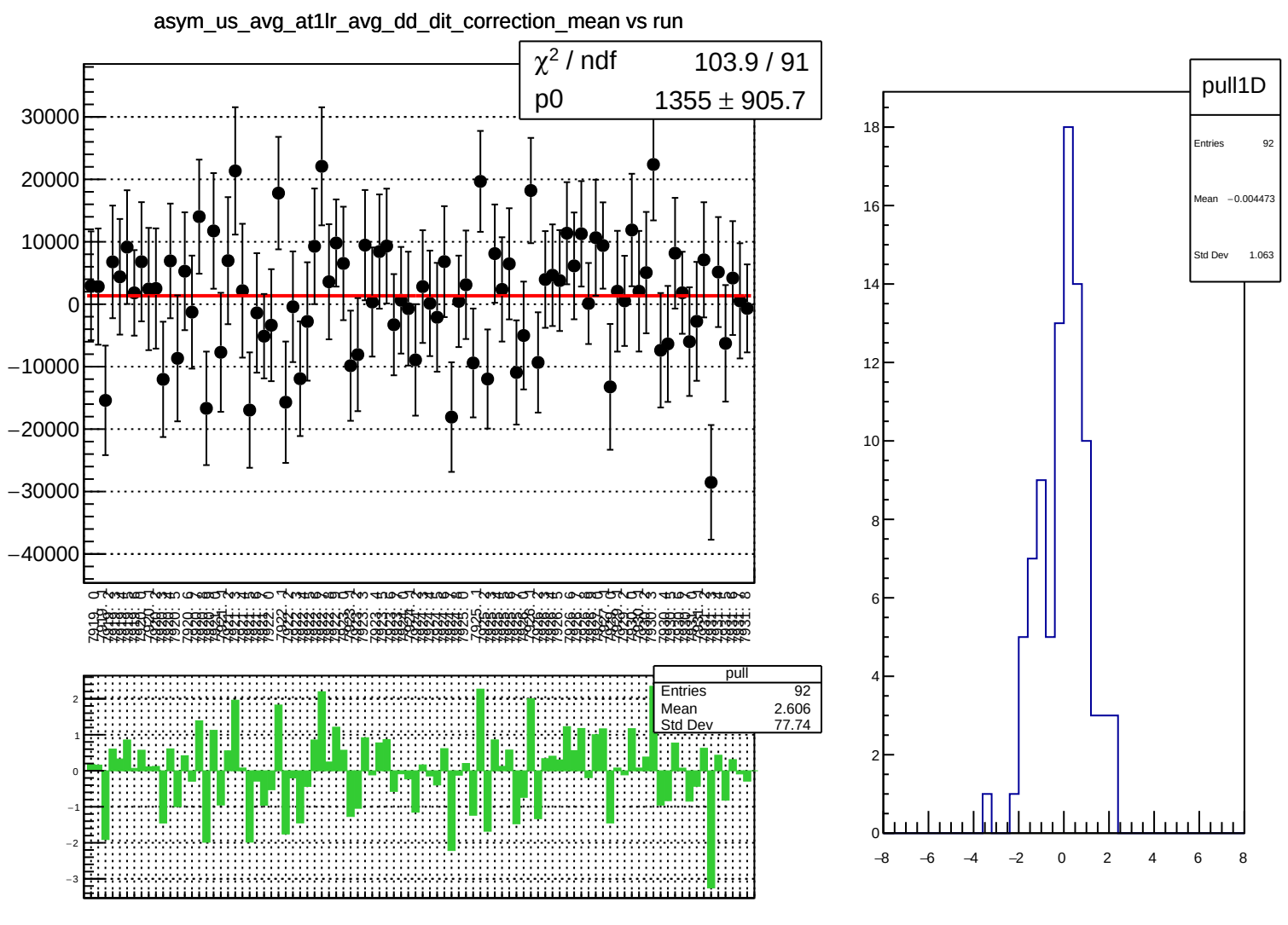

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 103.6 / 91
p0 1273 ± 864.7
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 92
Mean −34.63
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.005544
Std Dev 1.061
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

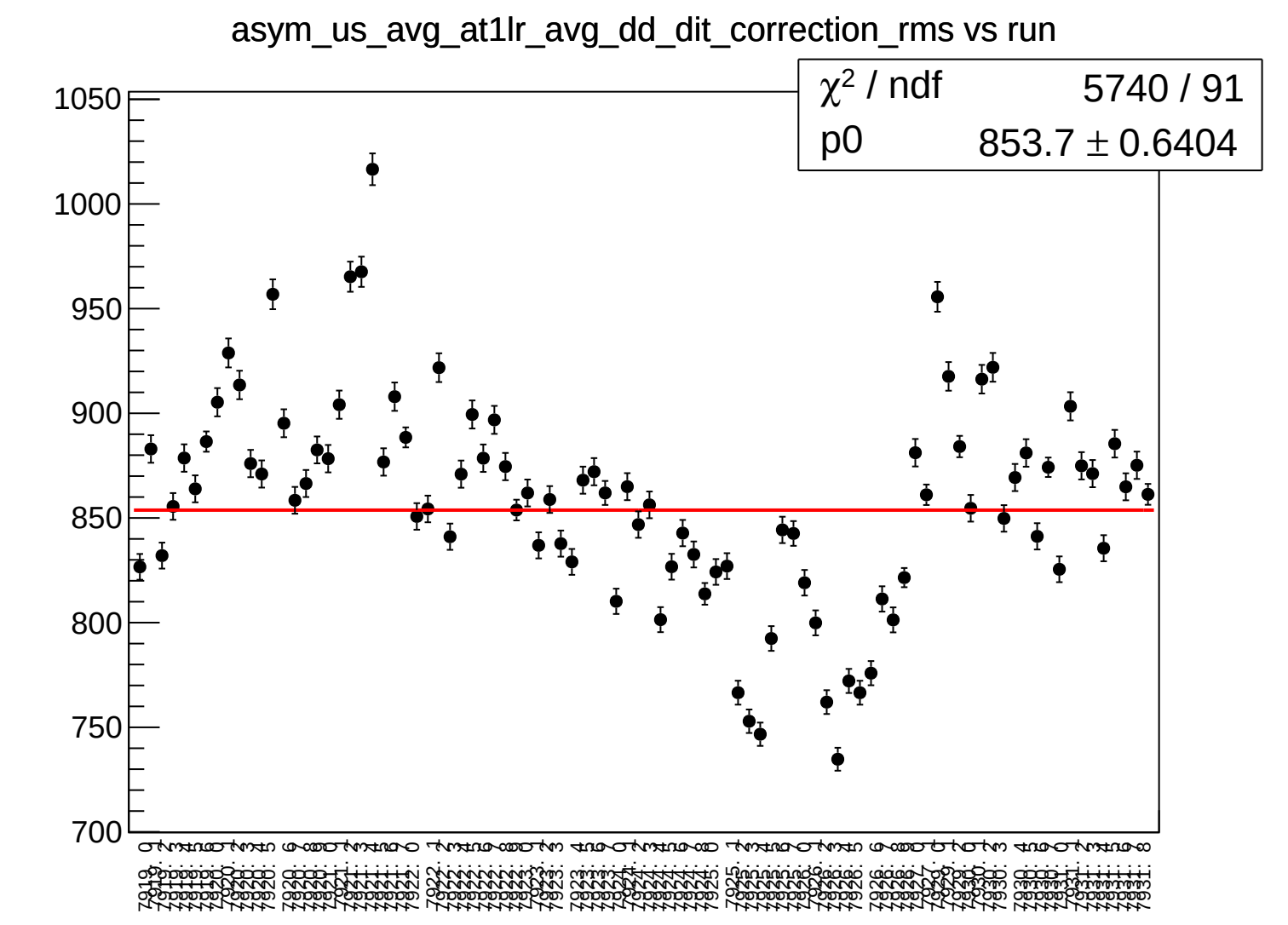

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 5097 / 91
p0 815.3 ± 0.6114
1000
950
900
850
800
750
700

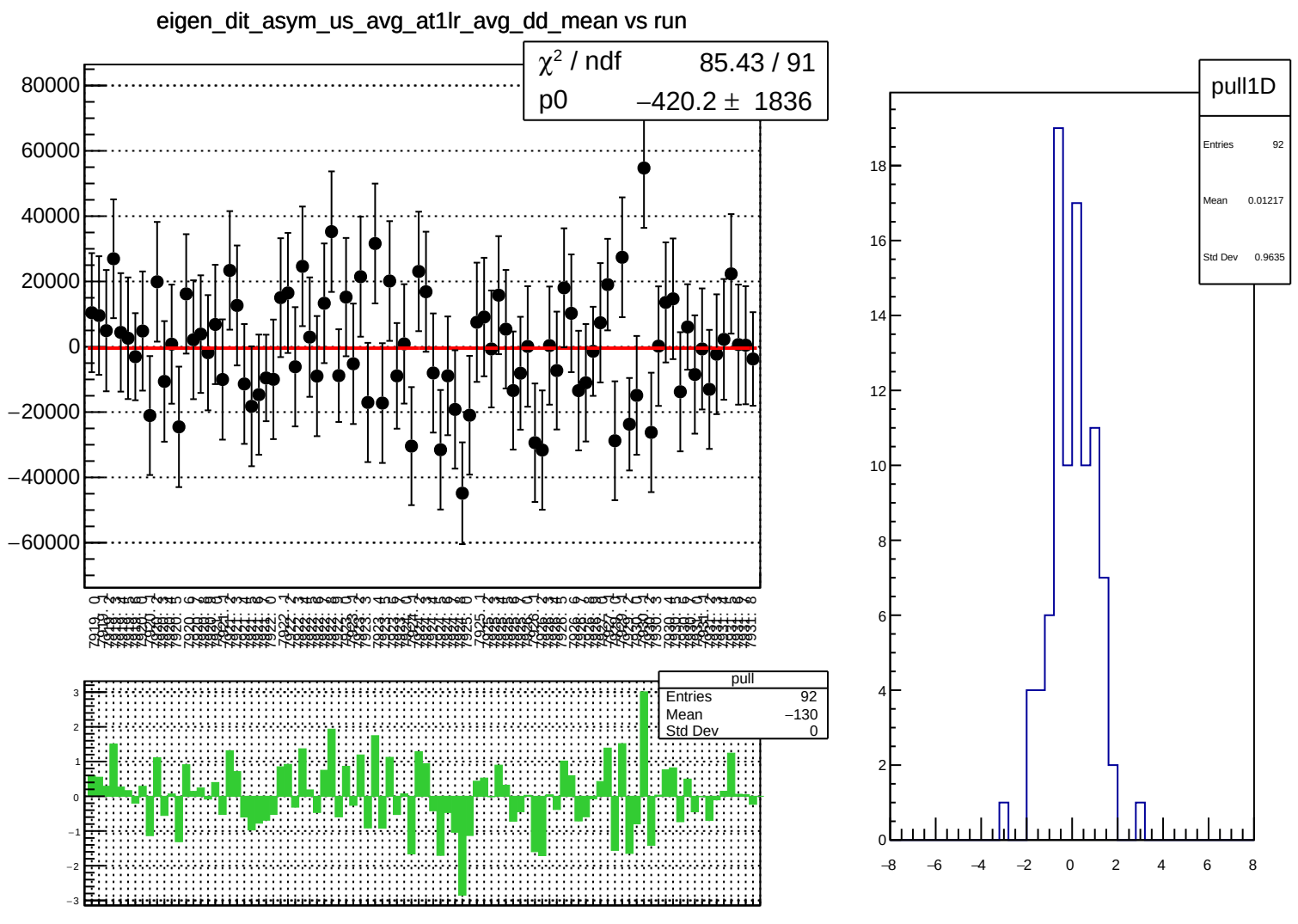

dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 85.43 / 91
p0 −420.2 ± 1836
pull
Entries 92
Mean −130
Std Dev 0

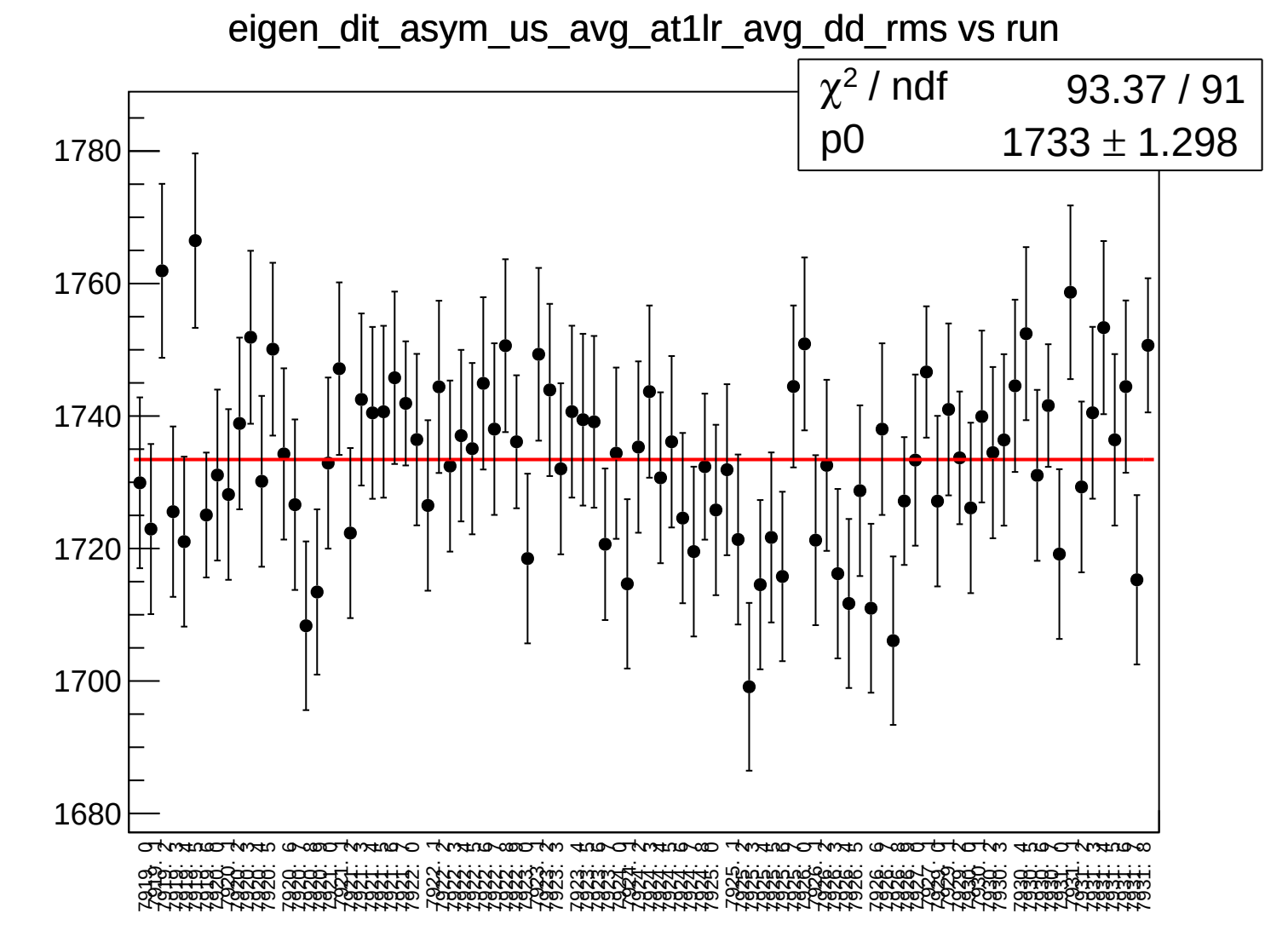

pull1D
Entries 92
Mean 0.01217
Std Dev 0.9635

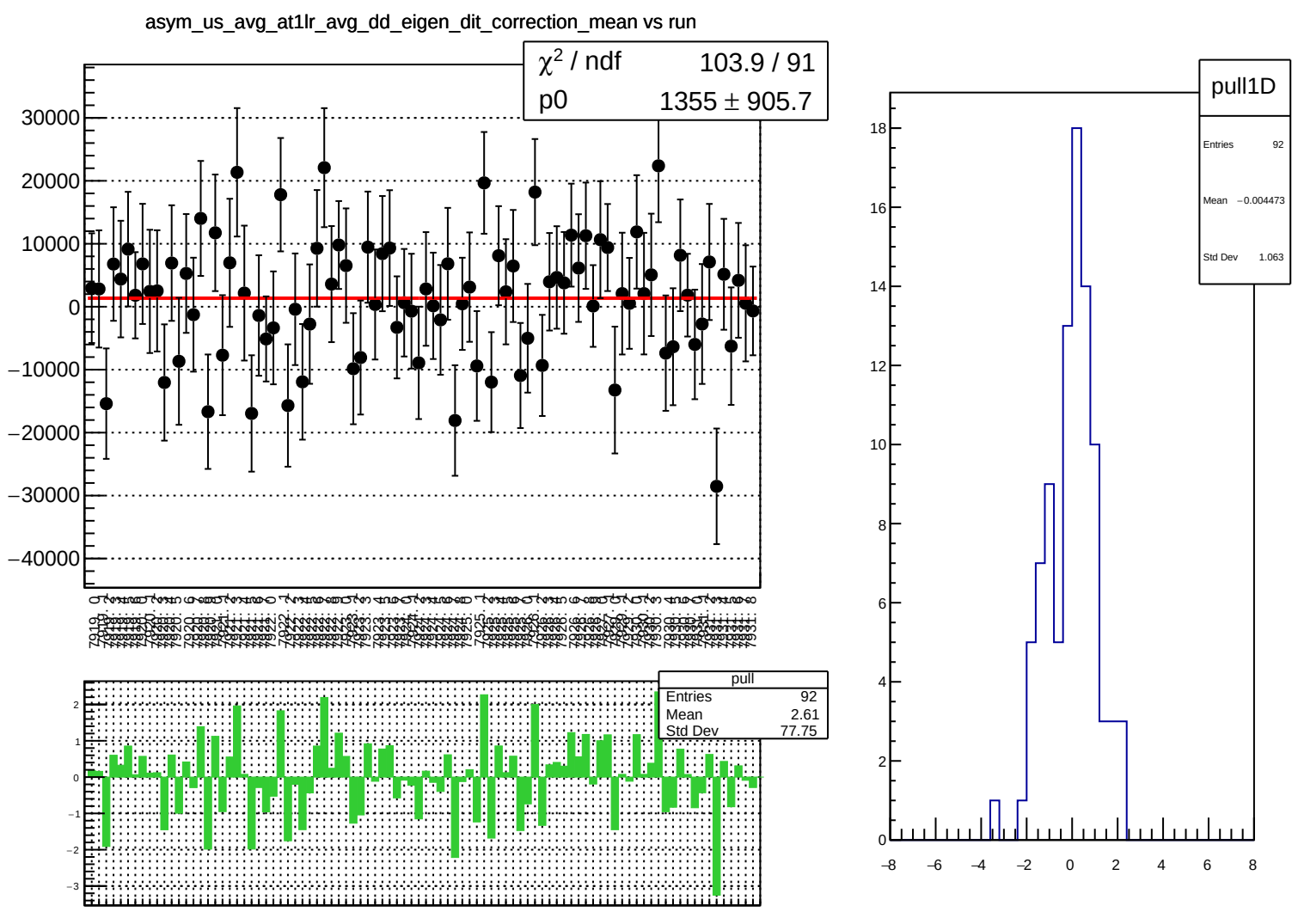

dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ^2 / ndf 93.37 / 91
p0 1733 ± 1.298
1780
1760
1740
1720
1700
1680

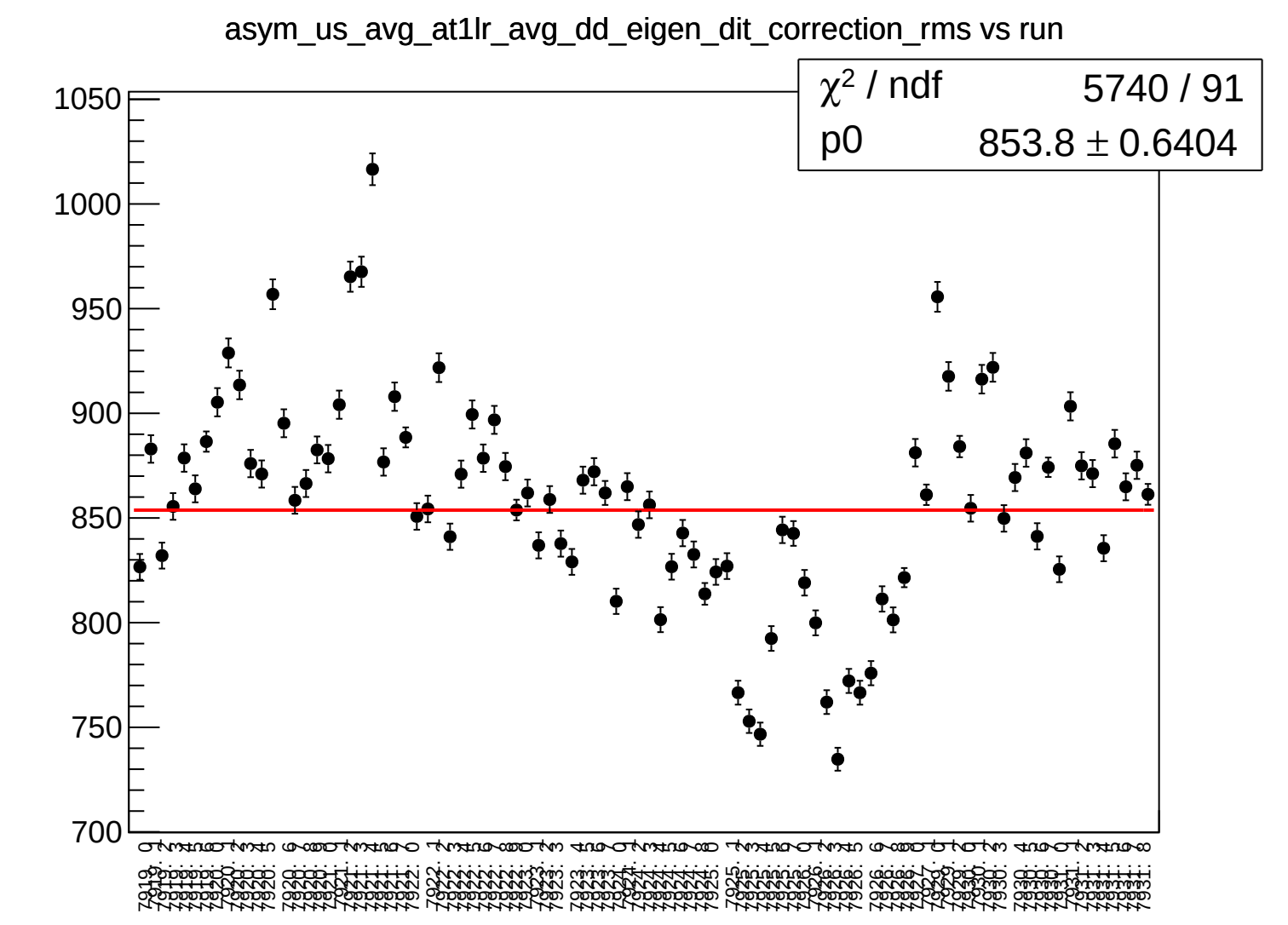

asym_us_avg_at1lr_avg_dd_dit_correction_mean vs run
χ² / ndf 103.9 / 91
p0 1355 ± 905.7
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 92
Mean 2.606
Std Dev 77.74
pull1D
Entries 92
Mean −0.004473
Std Dev 1.063
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

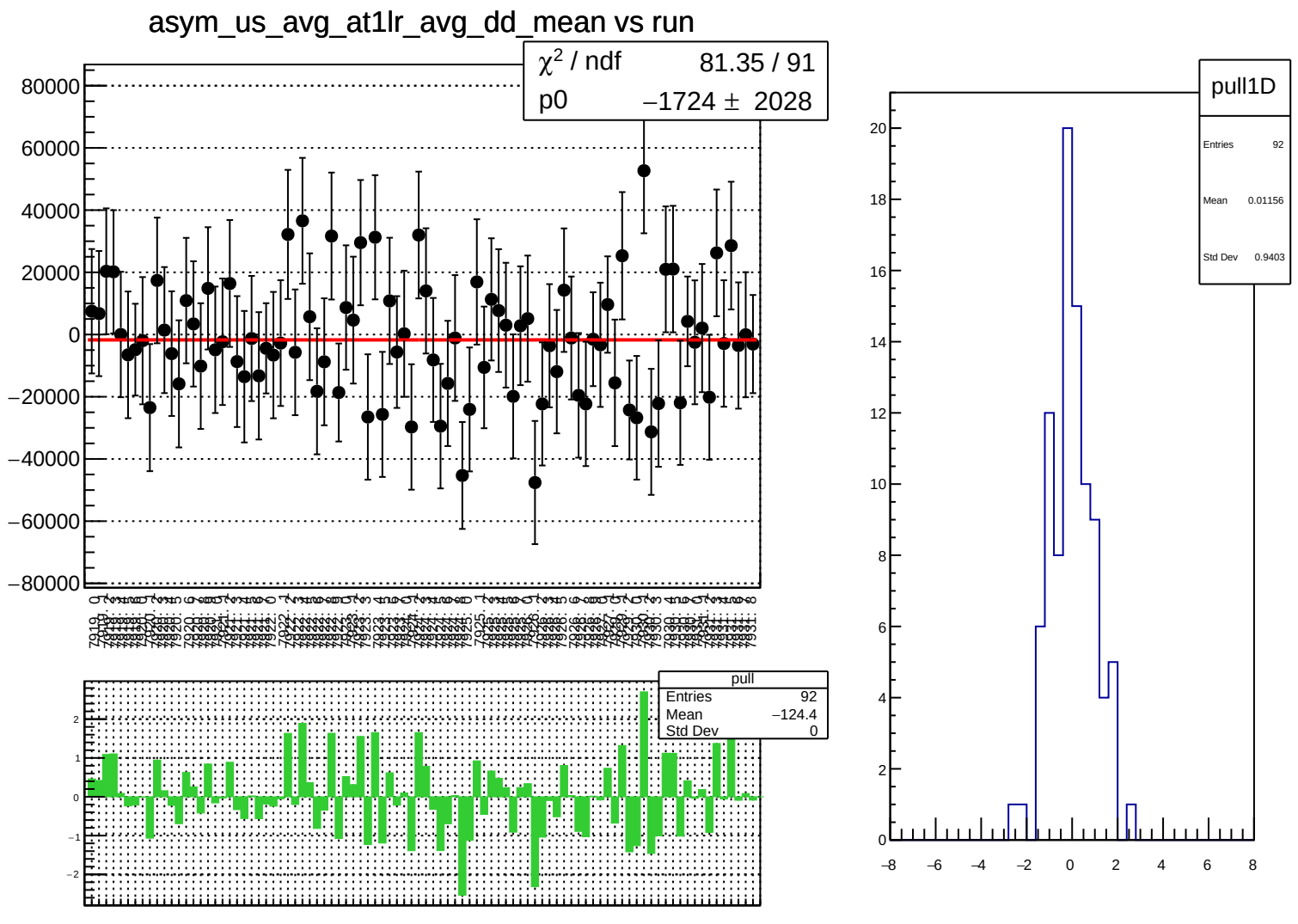

asym_us_avg_at1lr_avg_dd_dit_correction_rms vs run
χ² / ndf 5740 / 91
p0 853.7 ± 0.6404
1050
1000
950
900
850
800
750
700

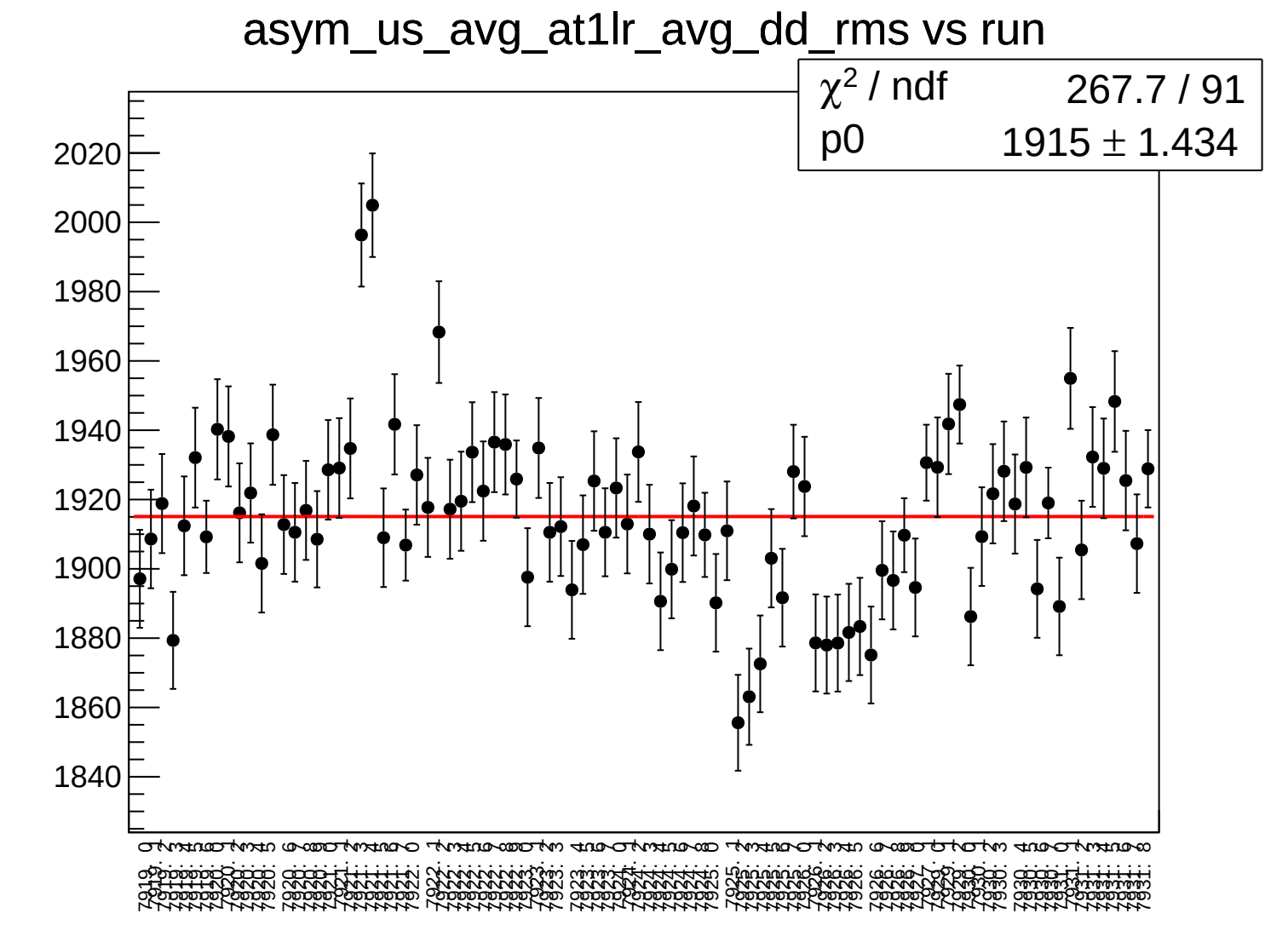

eigen_dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 85.43 / 91
p0 −420.2 ± 1836
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −130
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean 0.01217
Std Dev 0.9635
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

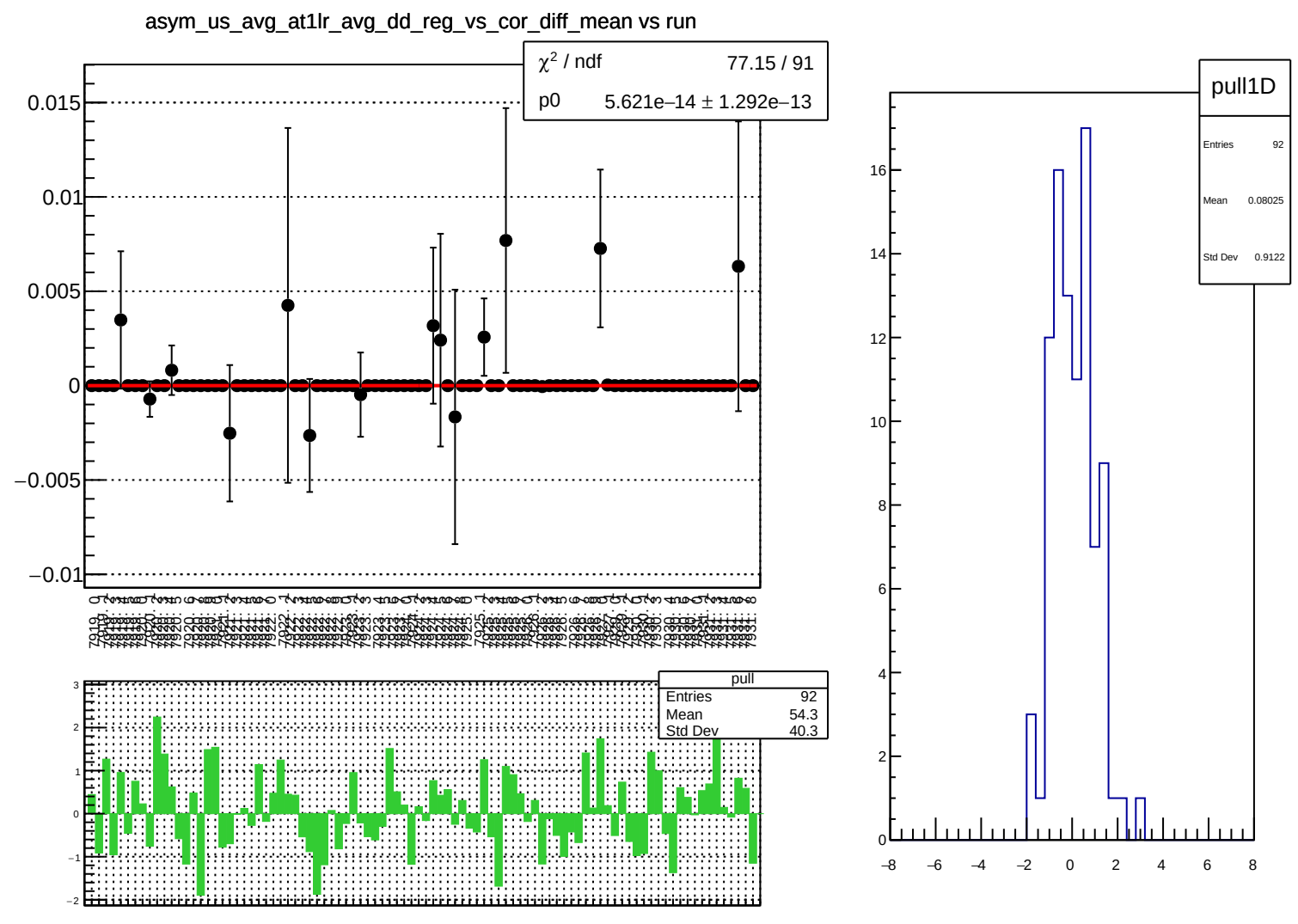

eigen_dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ^2 / ndf 93.37 / 91
p0 1733 ± 1.298
1780
1760
1740
1720
1700
1680

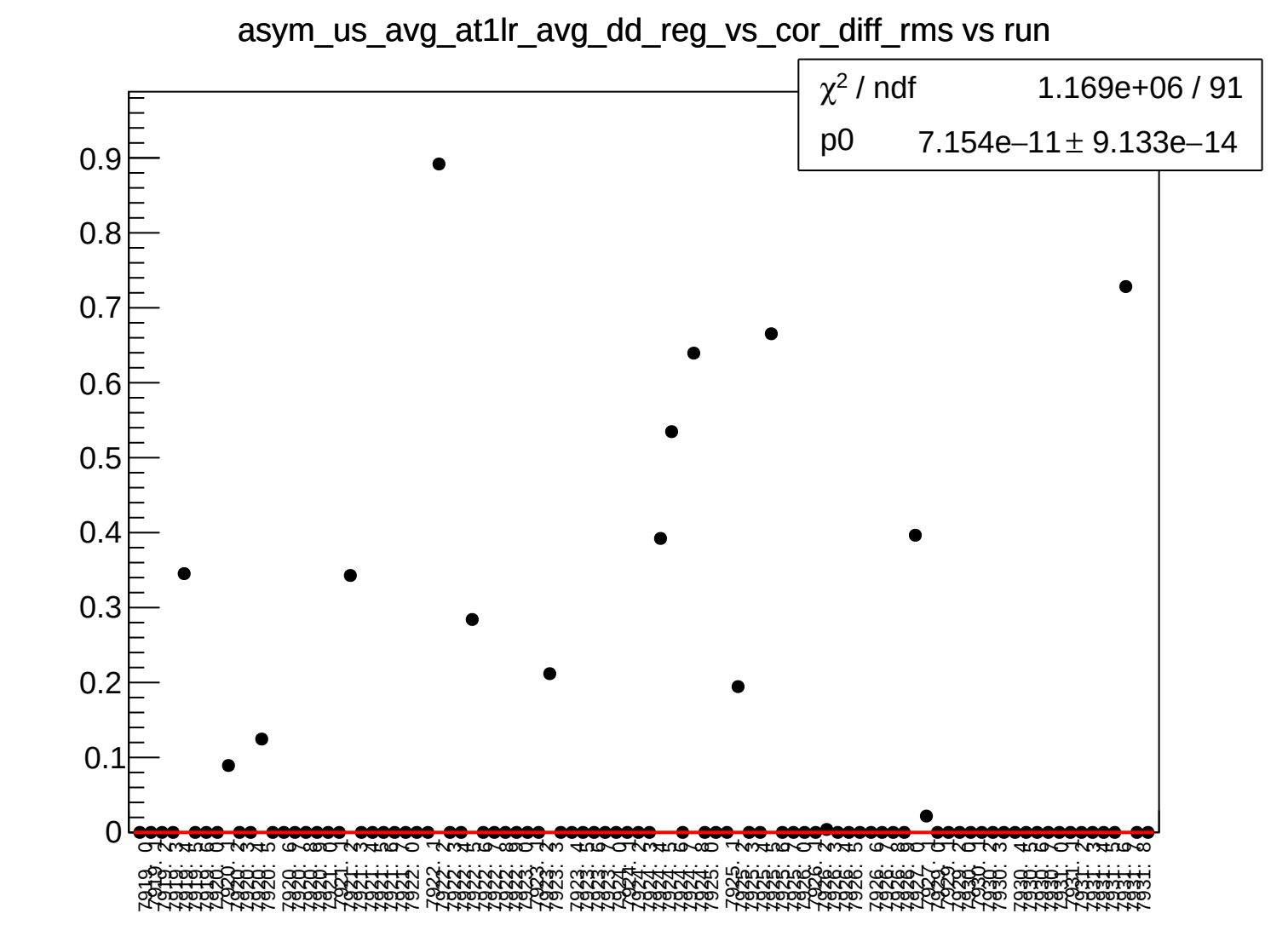

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 103.9 / 91
p0 1355 ± 905.7
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 92
Mean 2.61
Std Dev 77.75
pull1D
Entries 92
Mean −0.004473
Std Dev 1.063
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

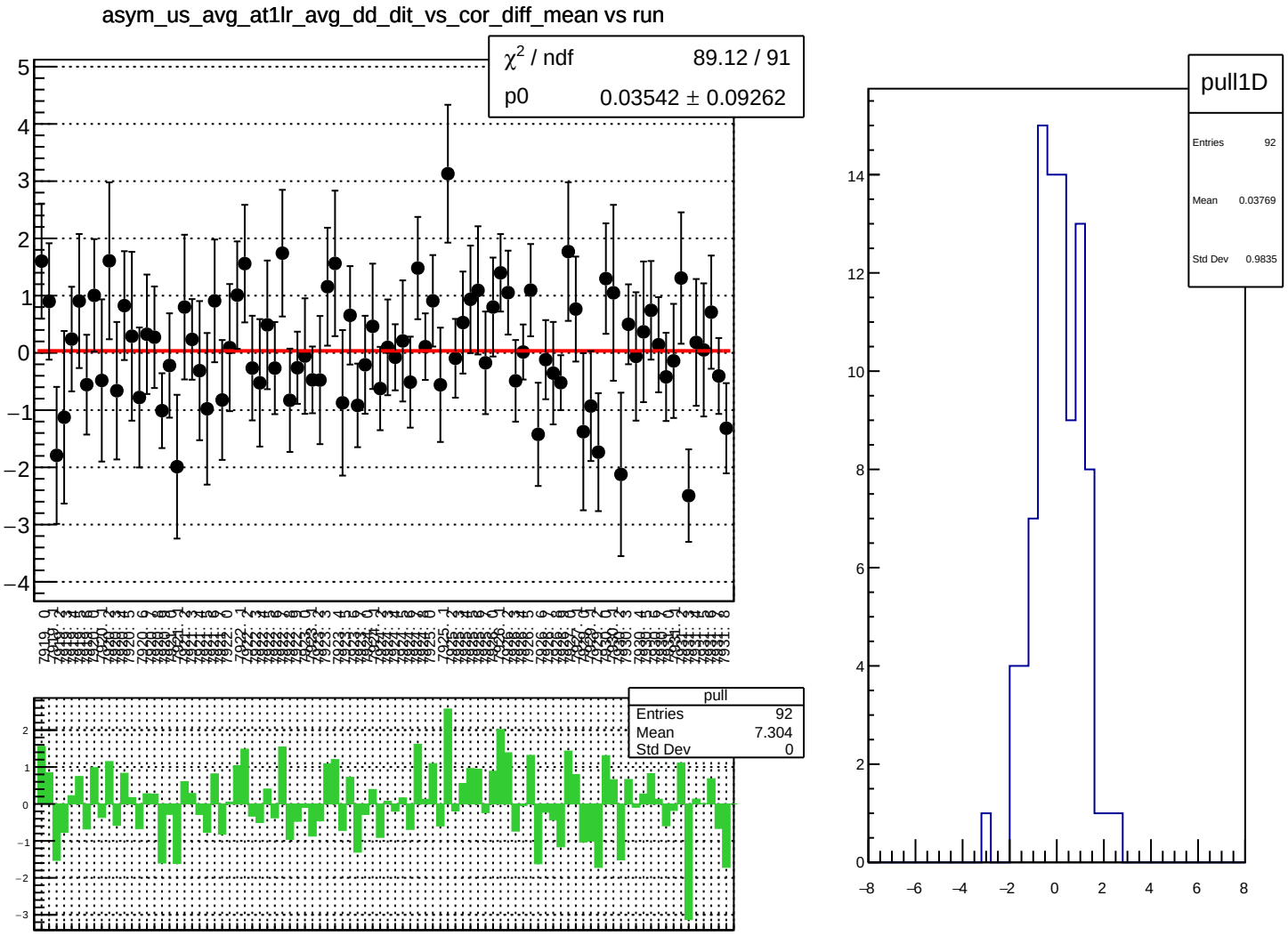

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 5740 / 91
p0 853.8 ± 0.6404
1050
1000
950
900
850
800
750
700

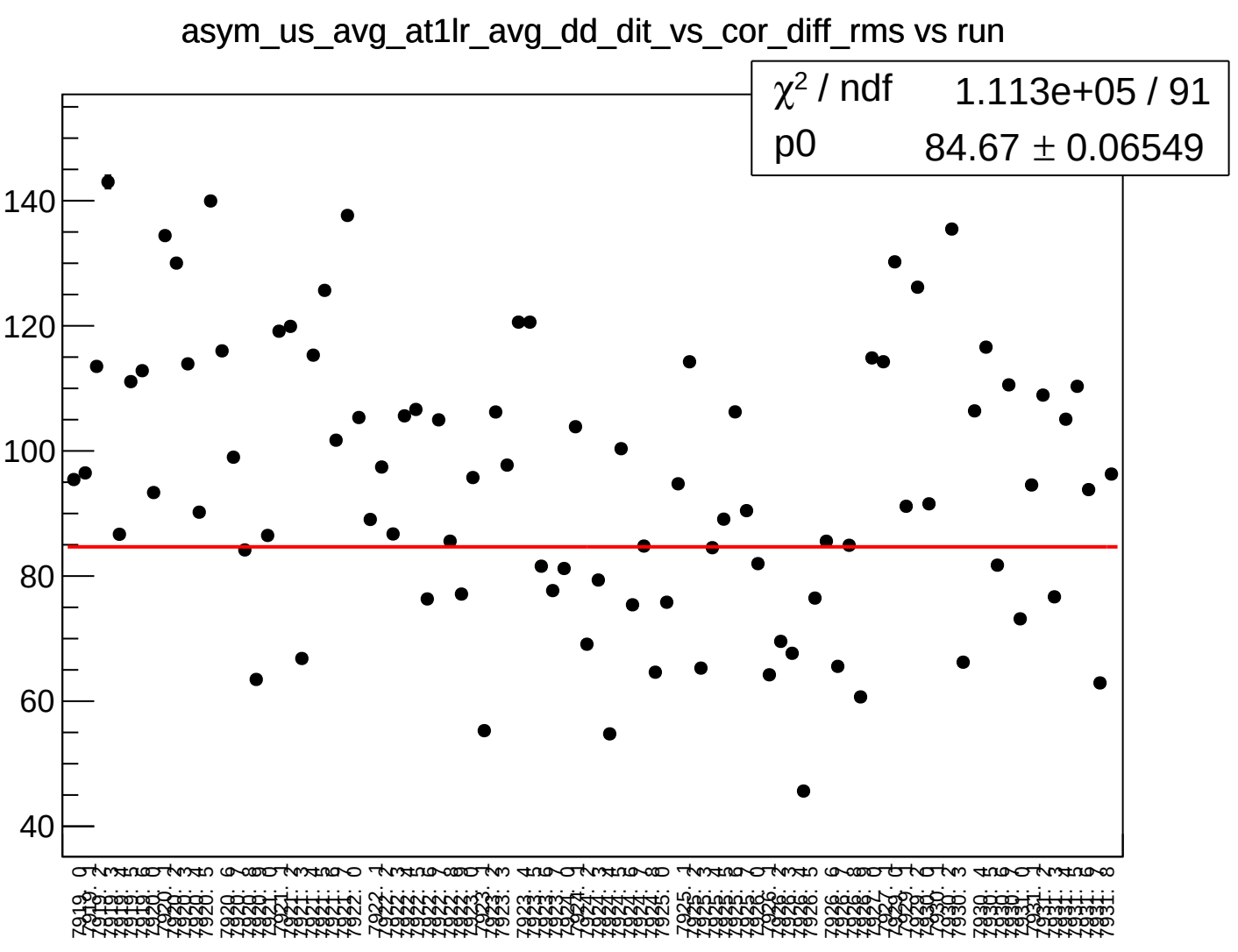

asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 81.35 / 91
p0 −1724 ± 2028
pull
Entries 92
Mean −124.4
Std Dev 0
pull1D
Entries 92
Mean 0.01156
Std Dev 0.9403

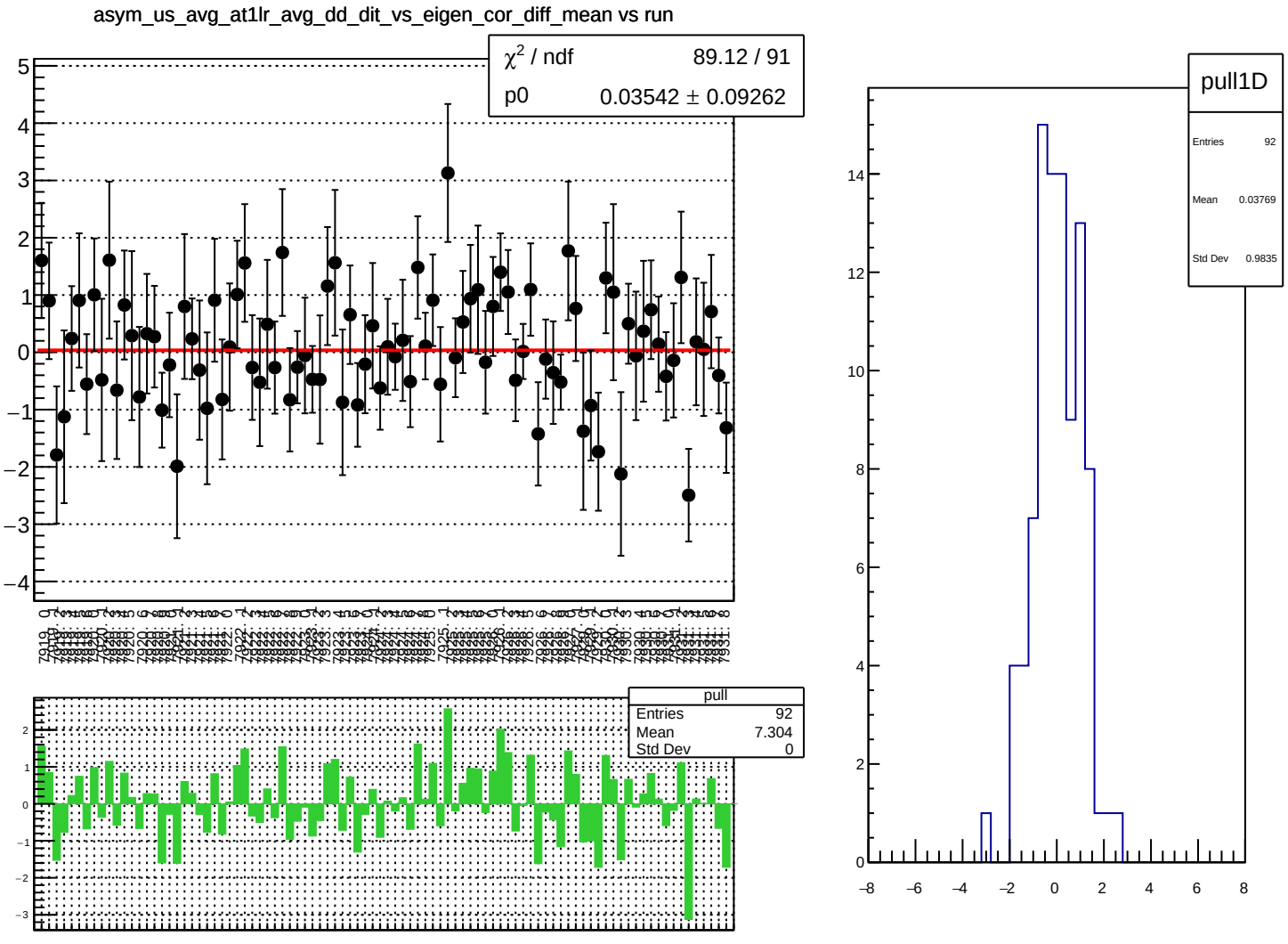

asym_us_avg_at1lr_avg_dd_rms vs run
χ^2 / ndf 267.7 / 91
p0 1915 ± 1.434
2020
2000
1980
1960
1940
1920
1900
1880
1860
1840

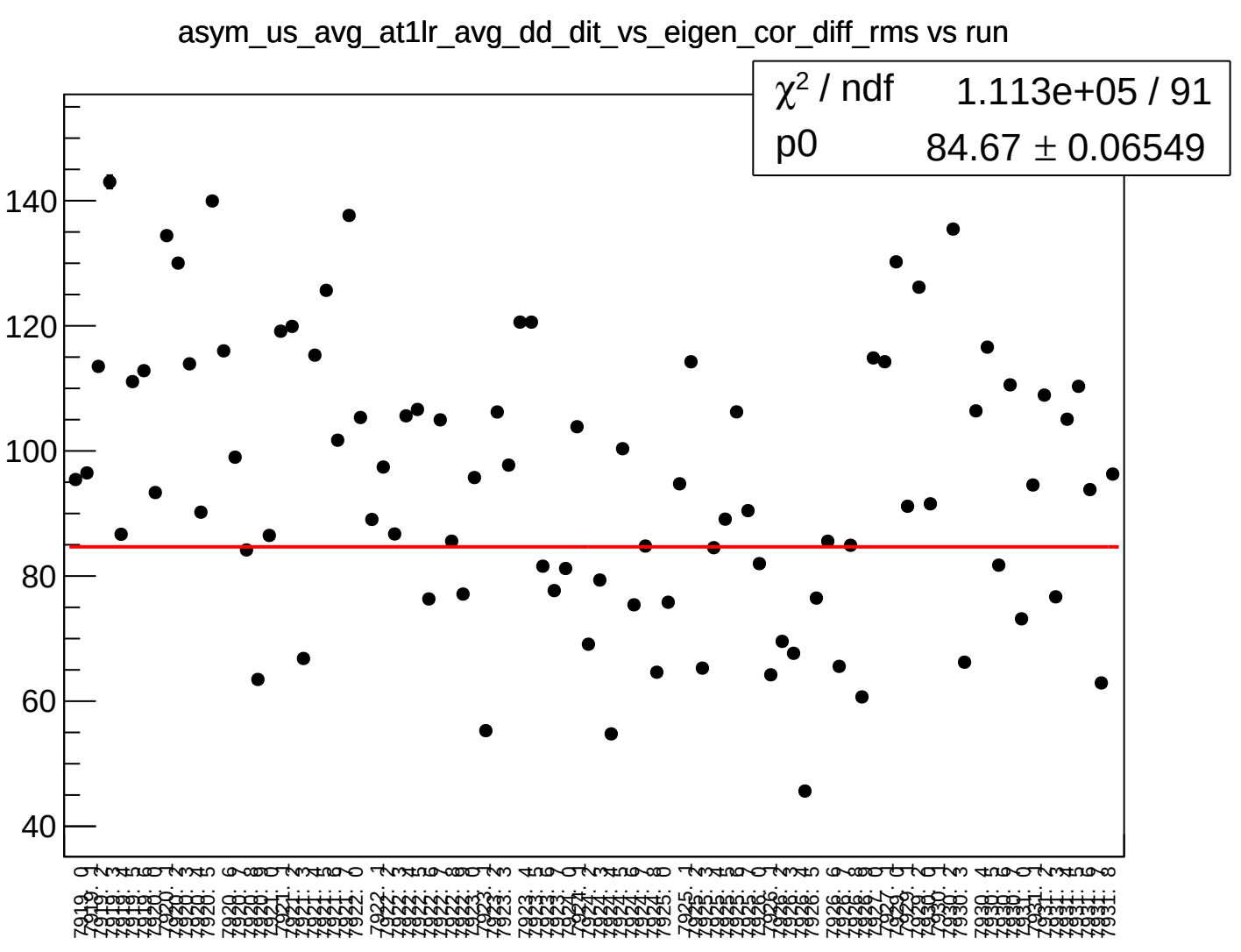

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 77.15 / 91
p0 5.621e−14 ± 1.292e−13
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 92
Mean 54.3
Std Dev 40.3
3
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.08025
Std Dev 0.9122
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

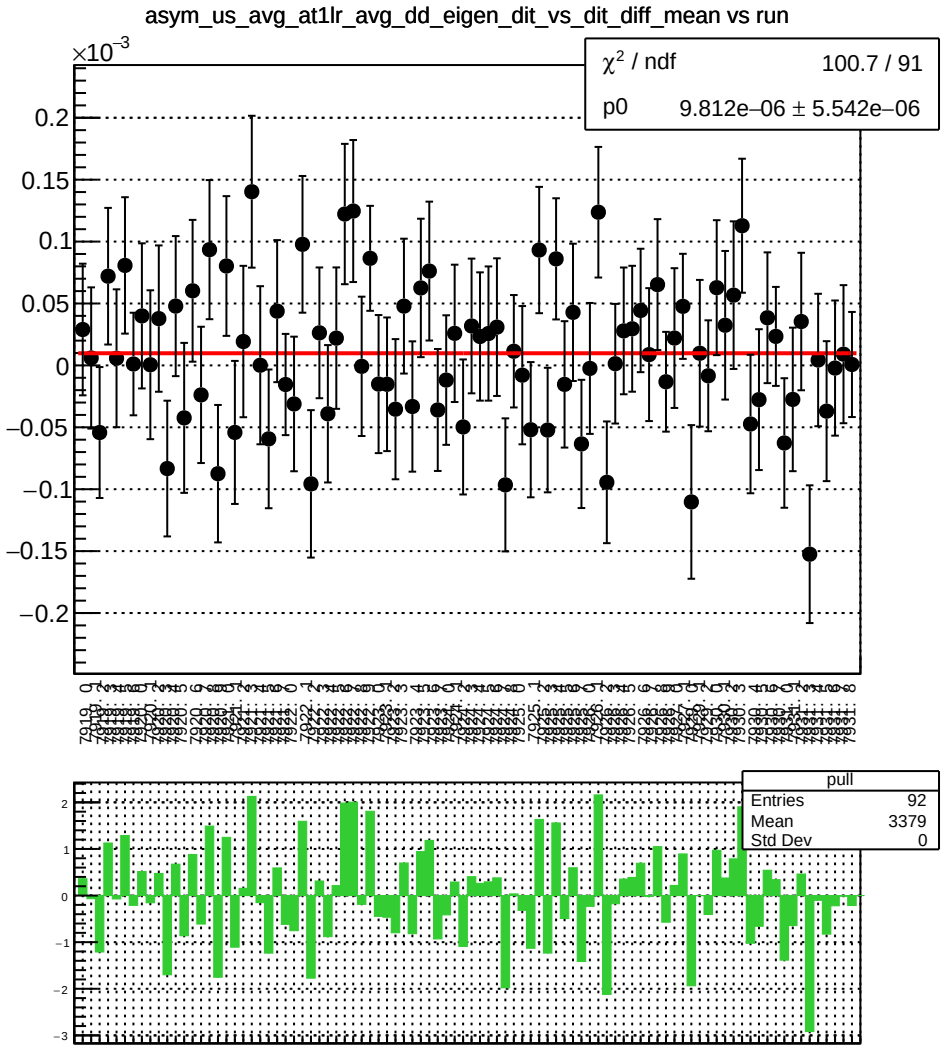

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.169e+06 / 91
p0 7.154e−11 ± 9.133e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

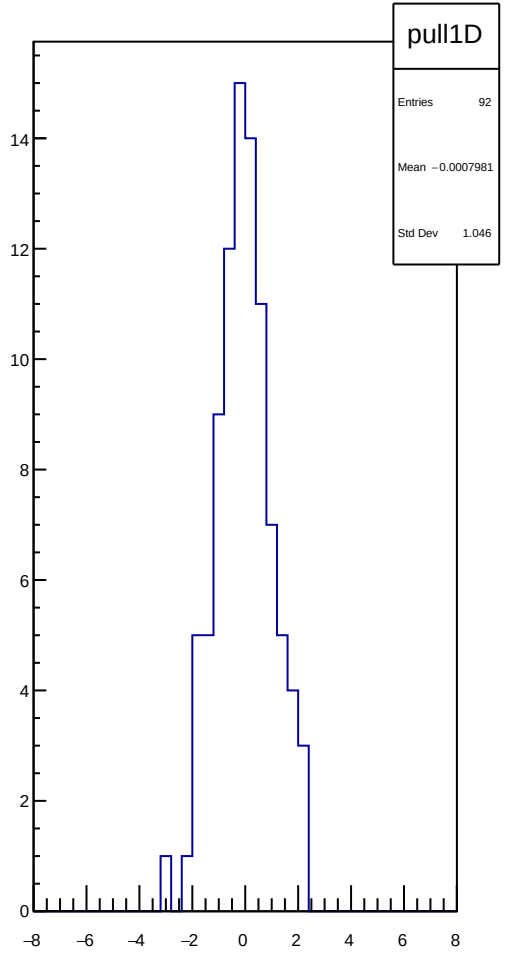

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 89.12 / 91
p0 0.03542 ± 0.09262
pull
Entries 92
Mean 7.304
Std Dev 0
pull1D
Entries 92
Mean 0.03769
Std Dev 0.9835

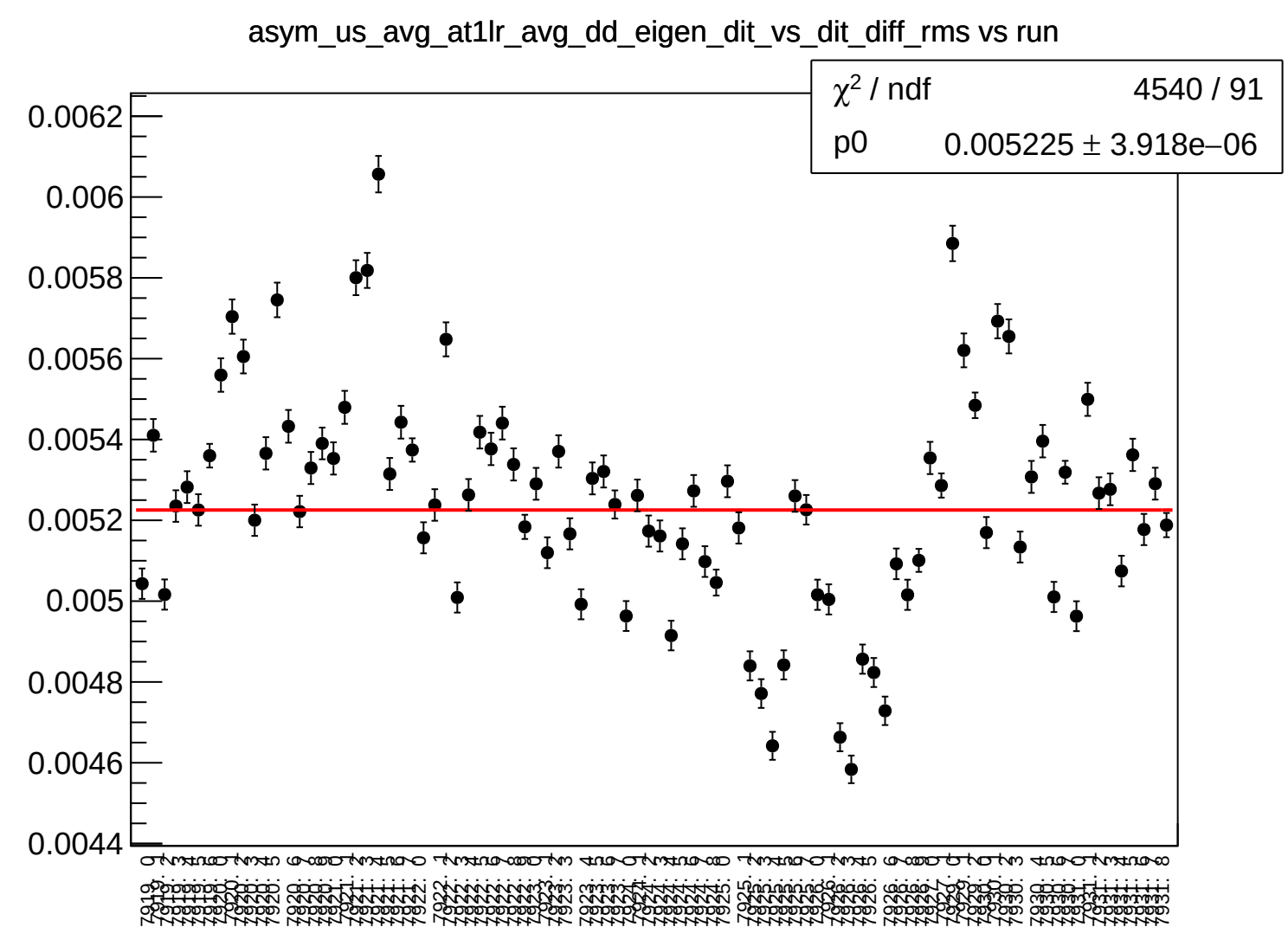

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.113e+05 / 91
p0 84.67 ± 0.06549
140
120
100
80
60
40

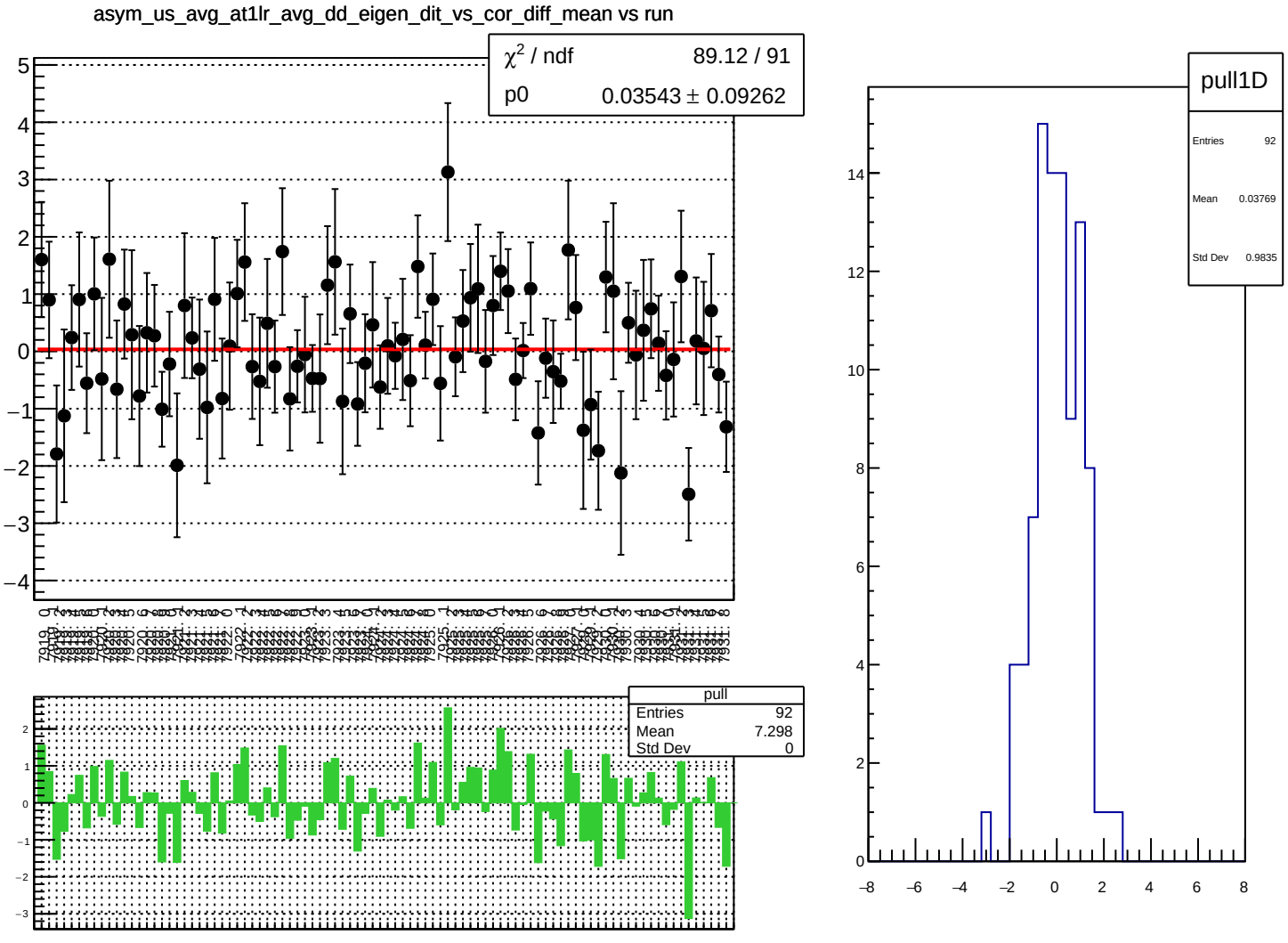

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.12 / 91
p0 0.03542 ± 0.09262
pull
Entries 92
Mean 7.304
Std Dev 0
pull1D
Entries 92
Mean 0.03769
Std Dev 0.9835

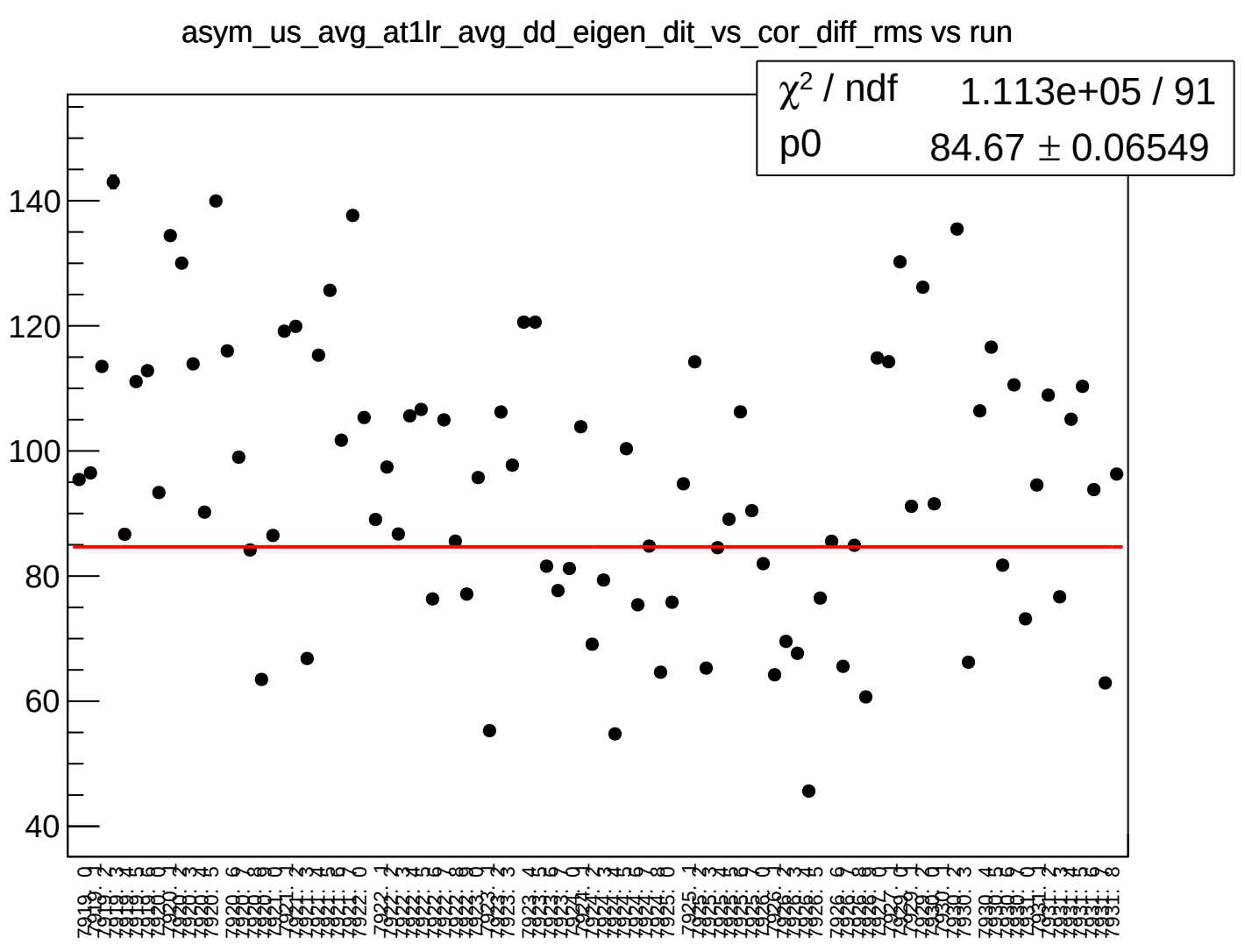

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.113e+05 / 91
p0 84.67 ± 0.06549
140
120
100
80
60
40

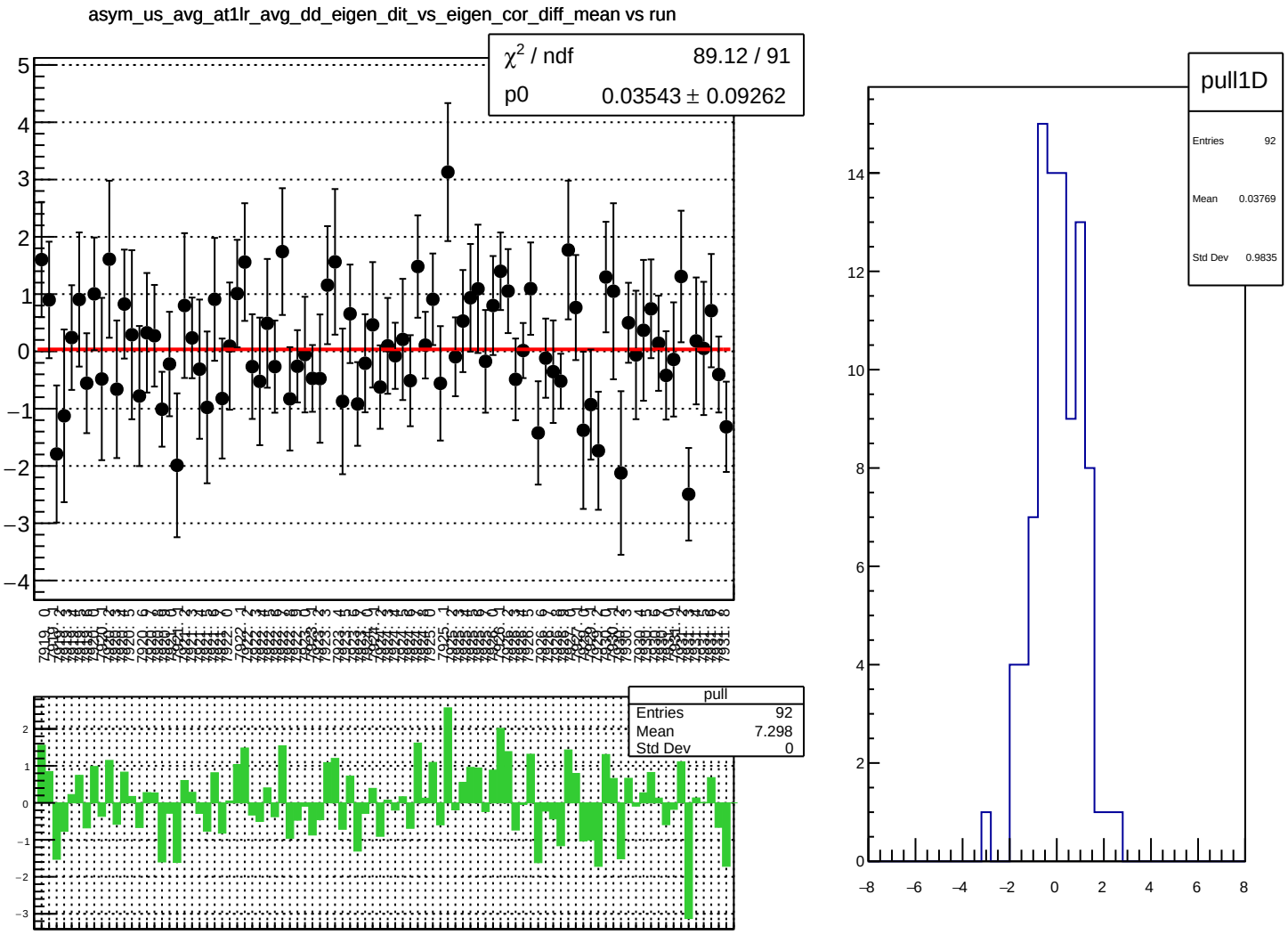

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 100.7 / 91
p0 9.812e−06 ± 5.542e−06
pull
Entries 92
Mean 3379
Std Dev 0

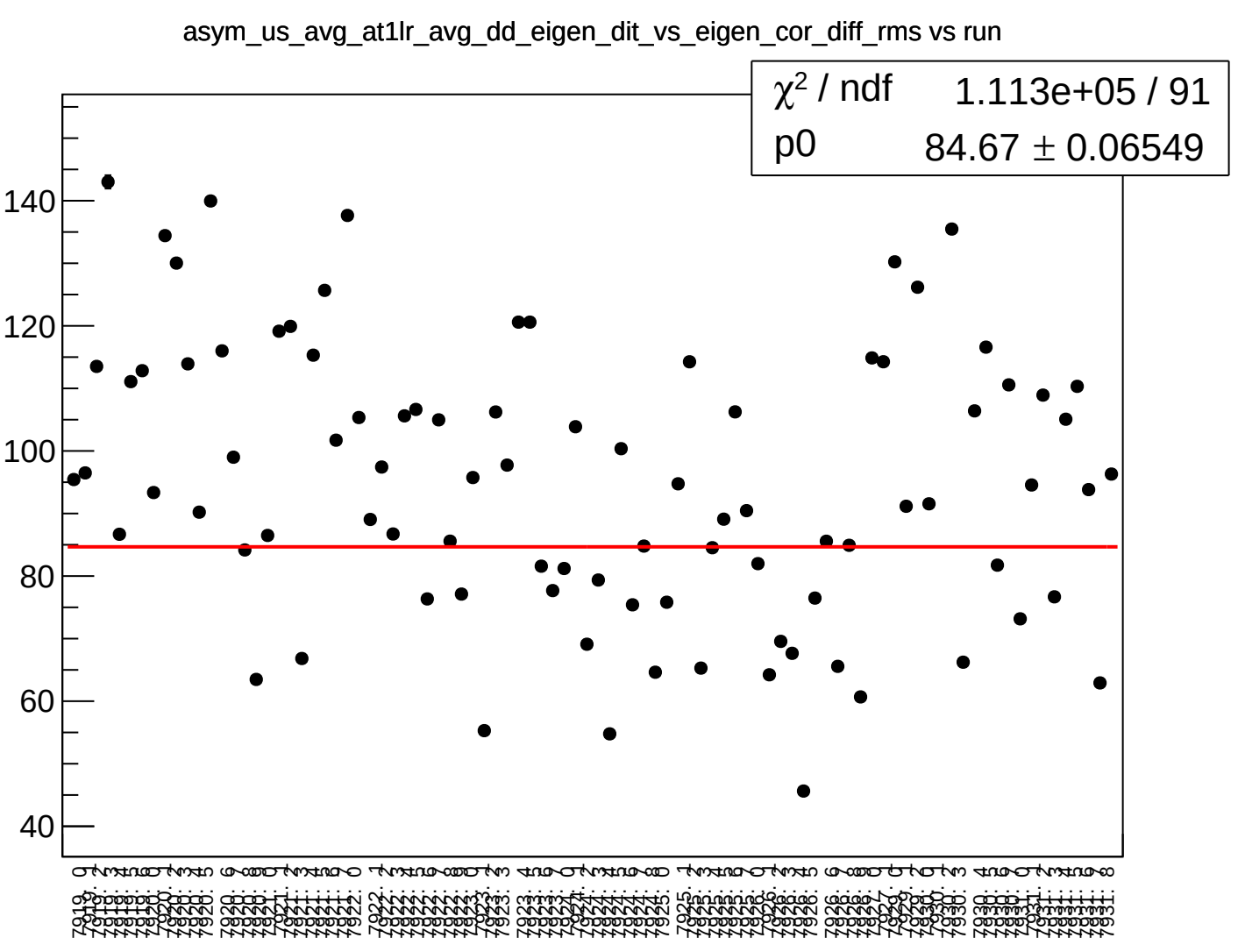

pull1D
Entries 92
Mean −0.0007981
Std Dev 1.046

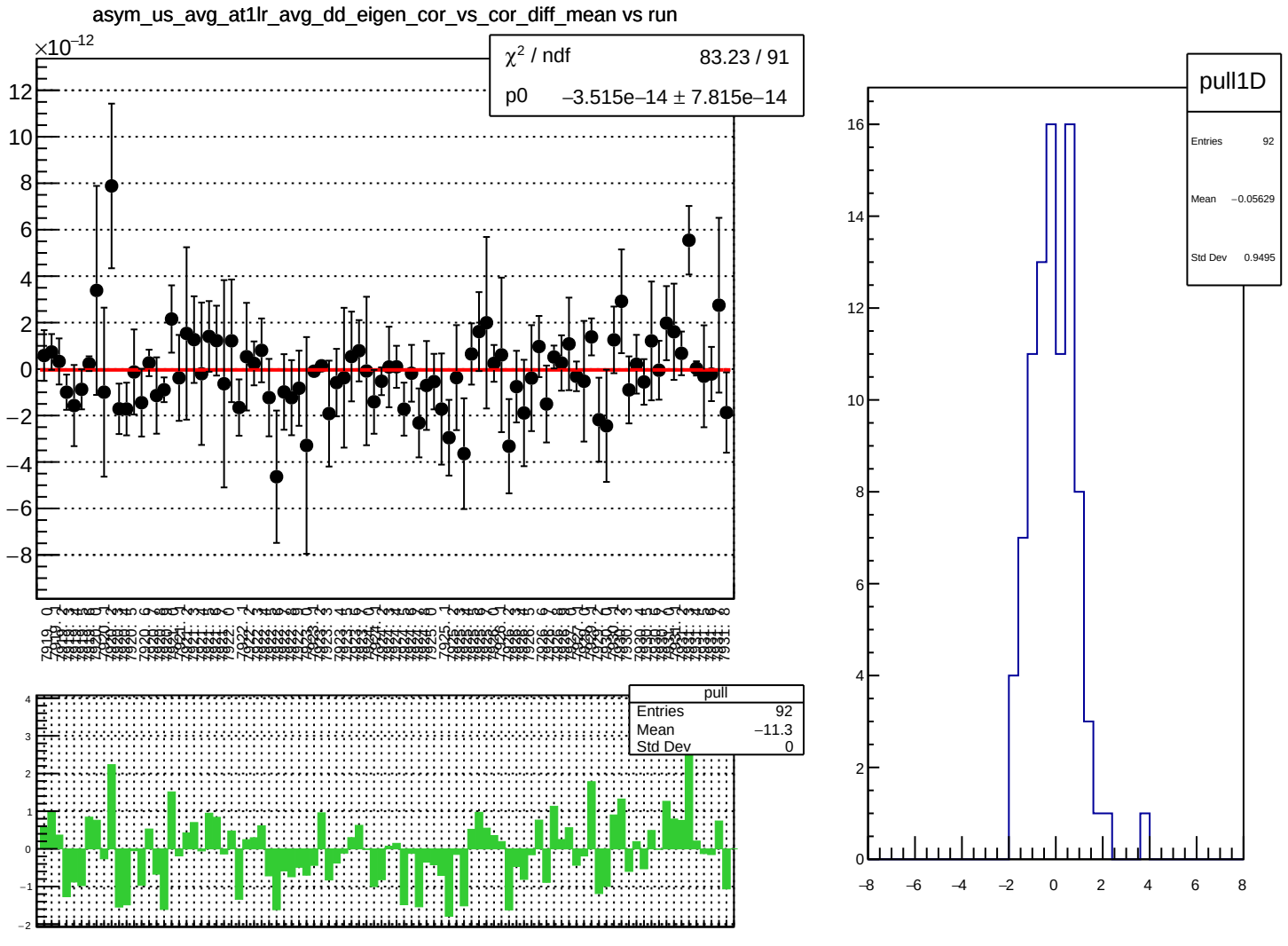

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4540 / 91
p0 0.005225 ± 3.918e−06
0.0062
0.006
0.0058
0.0056
0.0054
0.0052
0.005
0.0048
0.0046
0.0044

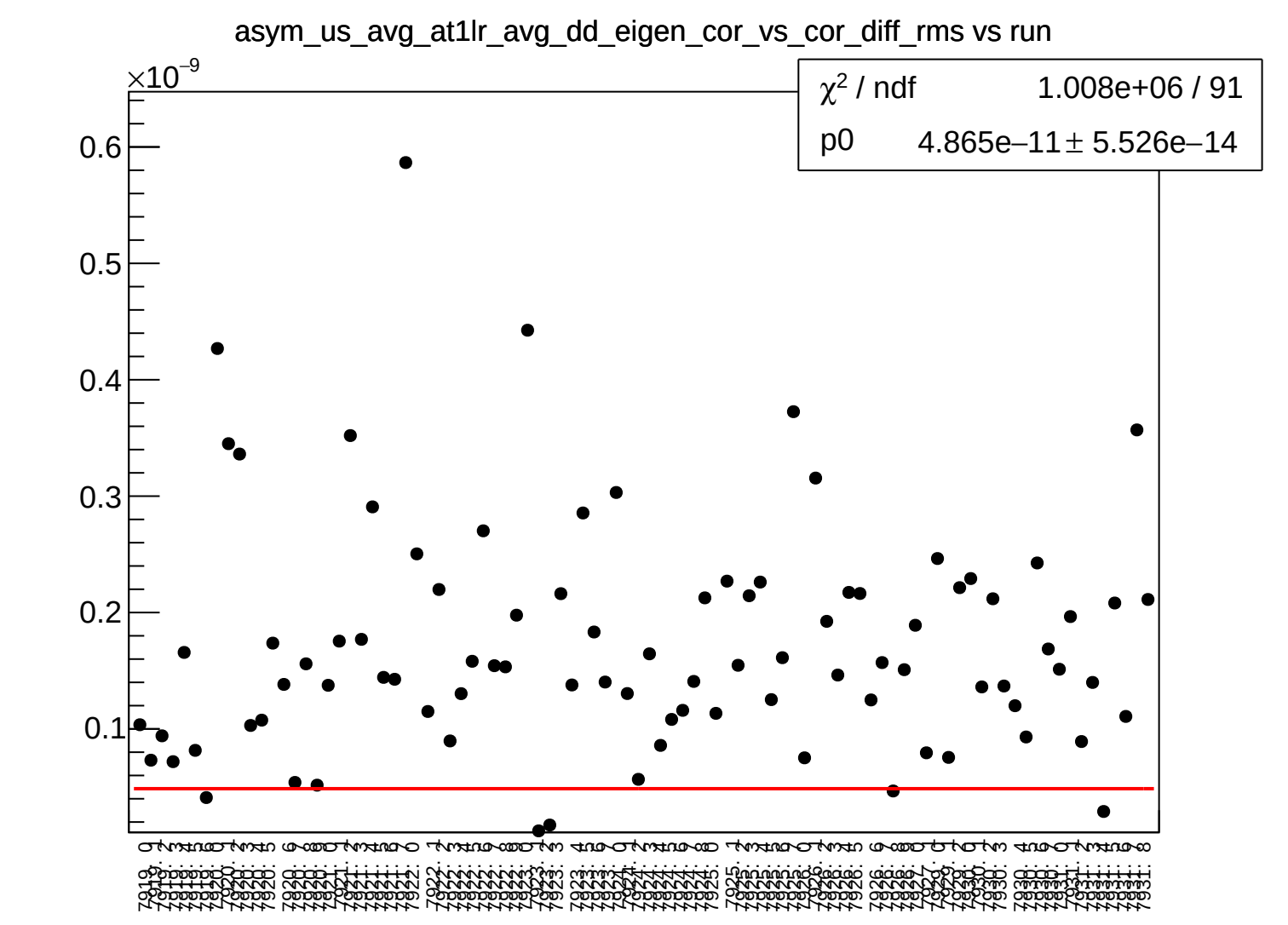

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.12 / 91
p0 0.03543 ± 0.09262
pull
Entries 92
Mean 7.298
Std Dev 0
pull1D
Entries 92
Mean 0.03769
Std Dev 0.9835

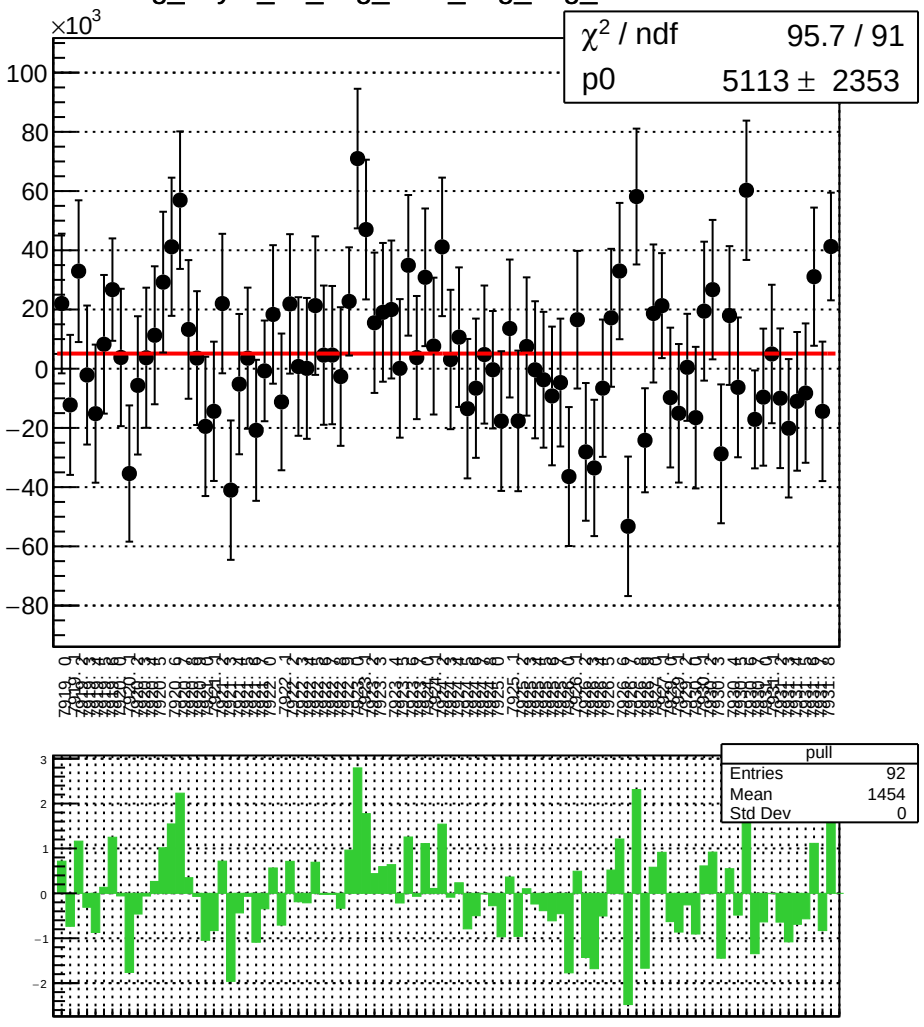

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.113e+05 / 91
p0 84.67 ± 0.06549
140
120
100
80
60
40

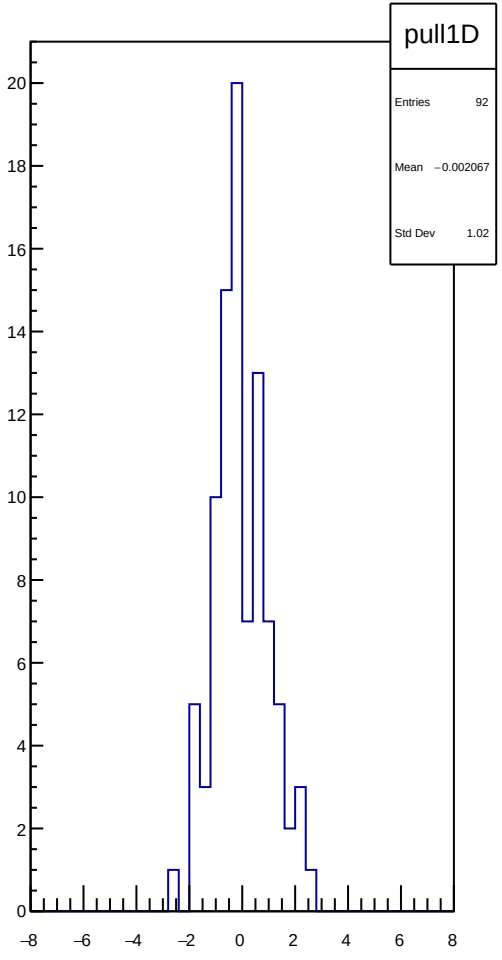

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.12 / 91
p0 0.03543 ± 0.09262
pull
Entries 92
Mean 7.298
Std Dev 0
pull1D
Entries 92
Mean 0.03769
Std Dev 0.9835

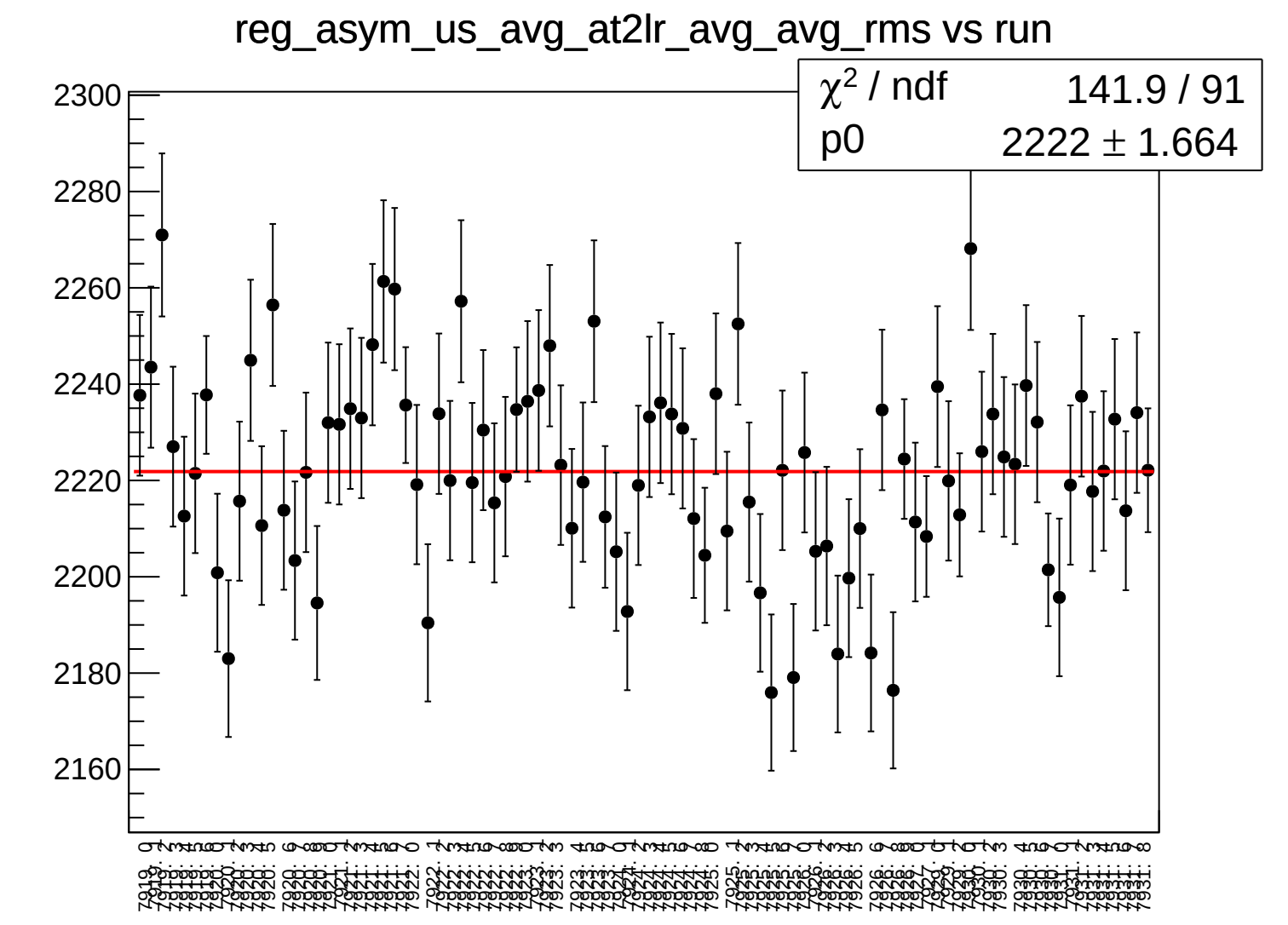

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.113e+05 / 91
p0 84.67 ± 0.06549
140
120
100
80
60
40

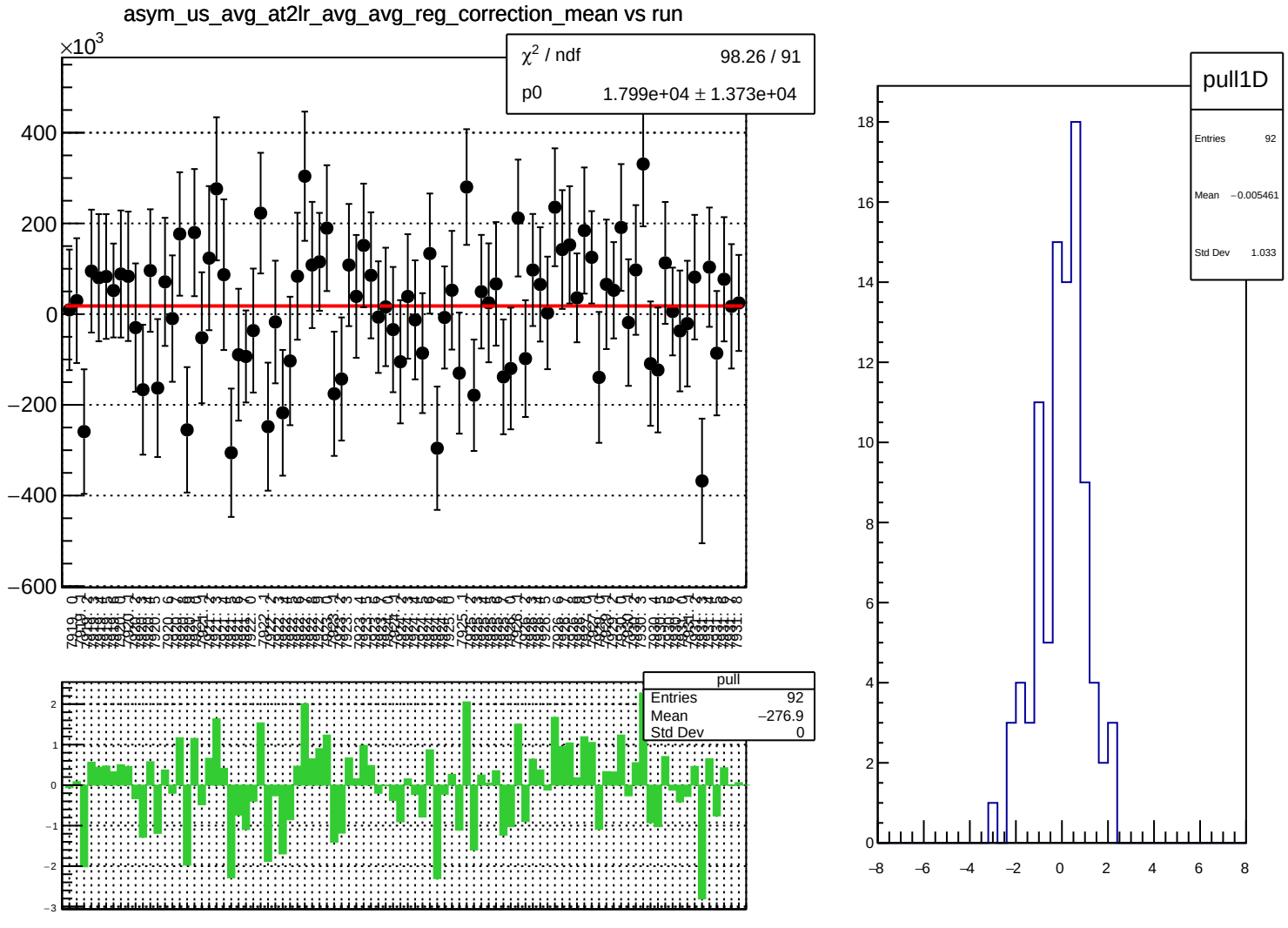

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.23 / 91
p0 −3.515e−14 ± 7.815e−14
pull
Entries 92
Mean −11.3
Std Dev 0
pull1D
Entries 92
Mean −0.05629
Std Dev 0.9495

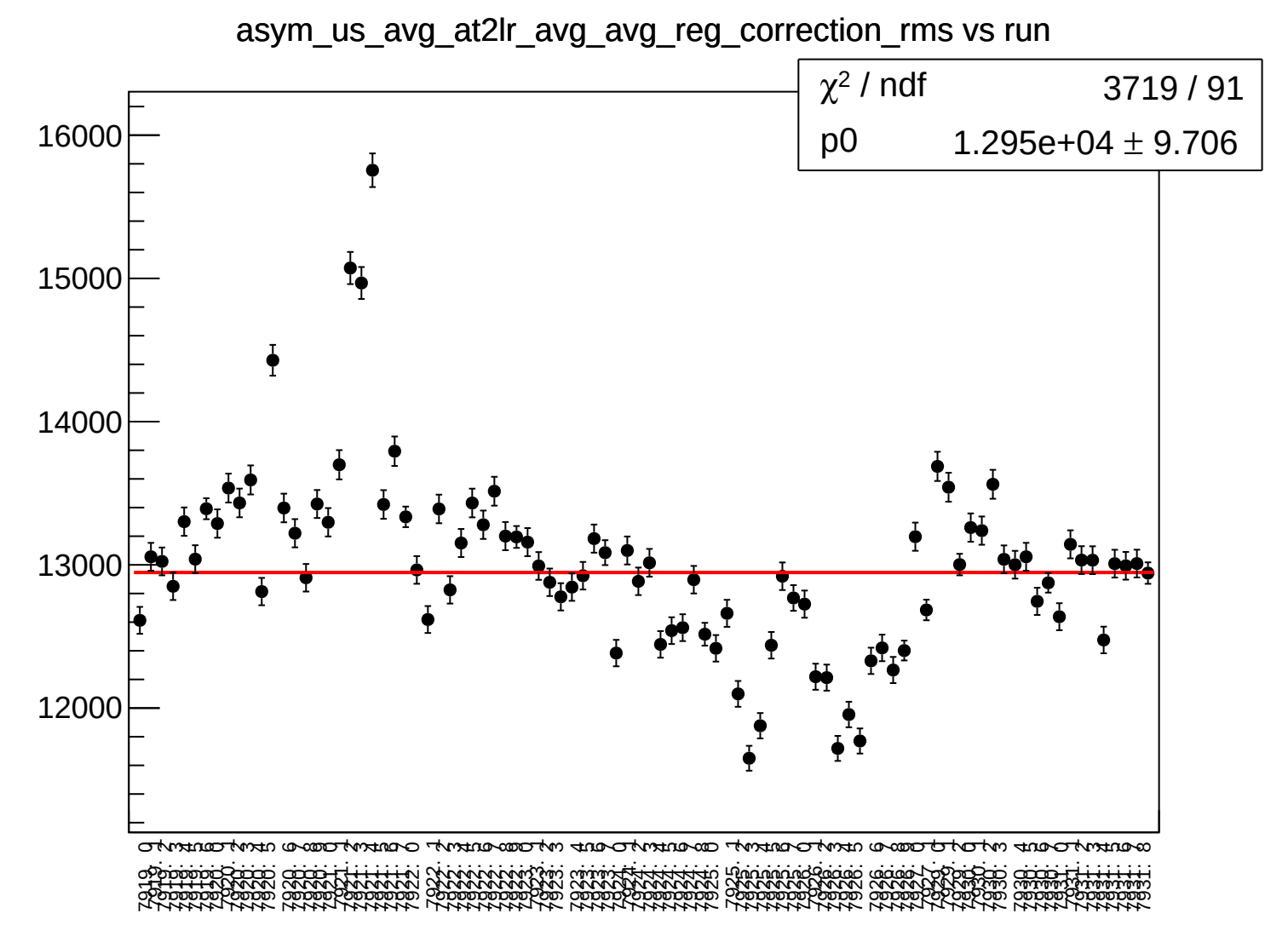

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.008e+06 / 91
p0 4.865e−11 ± 5.526e−14
0.6
0.5
0.4
0.3
0.2
0.1

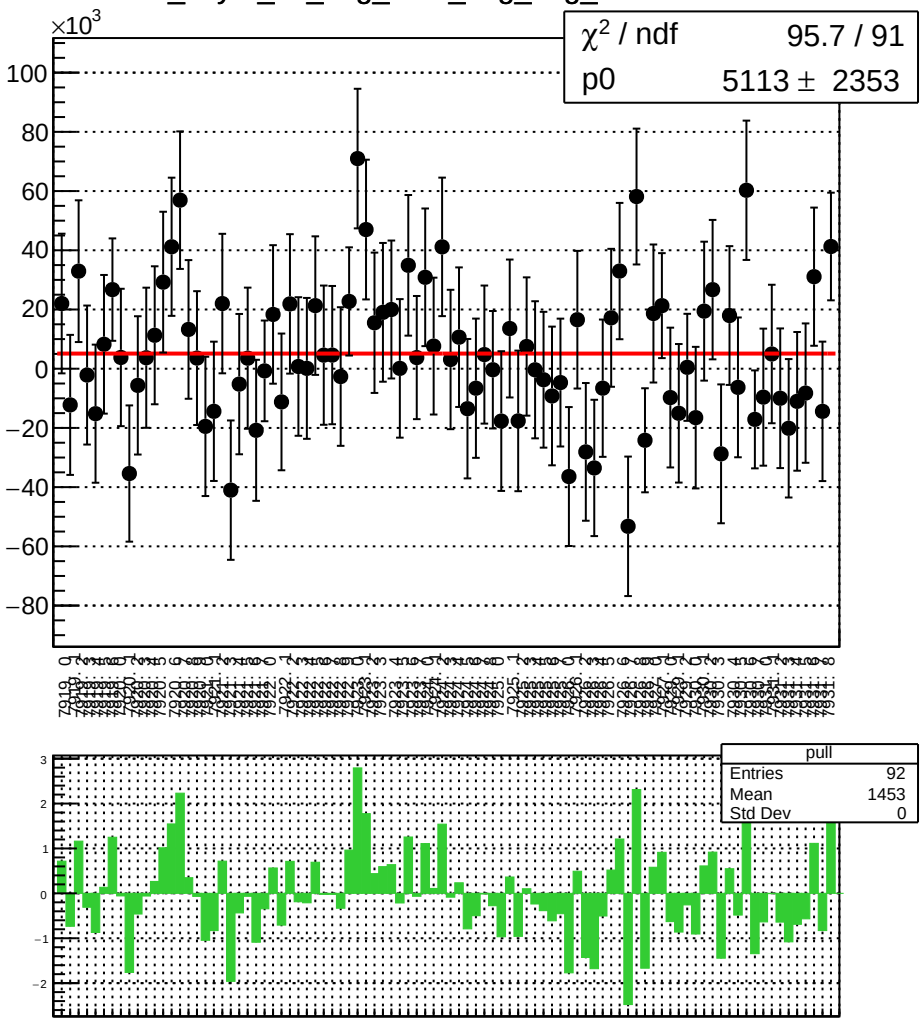

reg_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 95.7 / 91
p0 5113 ± 2353
pull
Entries 92
Mean 1454
Std Dev 0

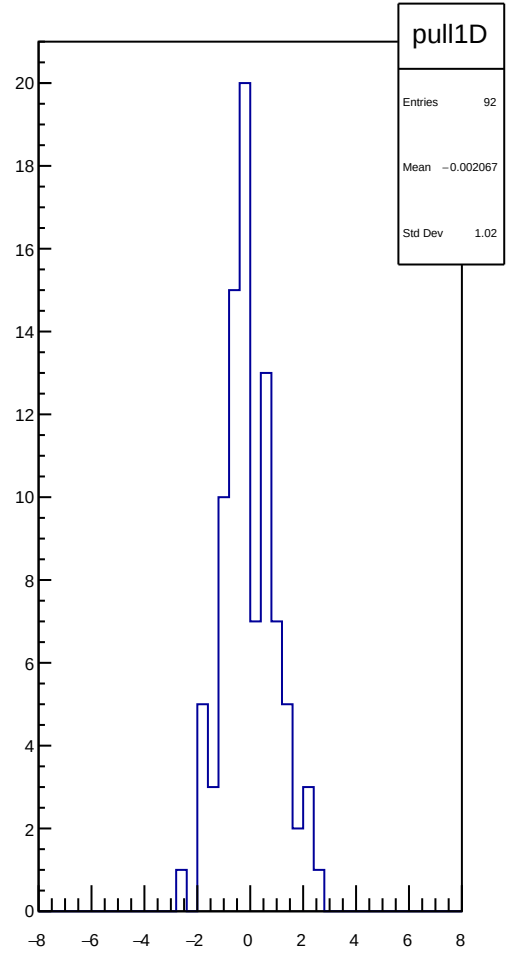

pull1D
Entries 92
Mean −0.002067
Std Dev 1.02

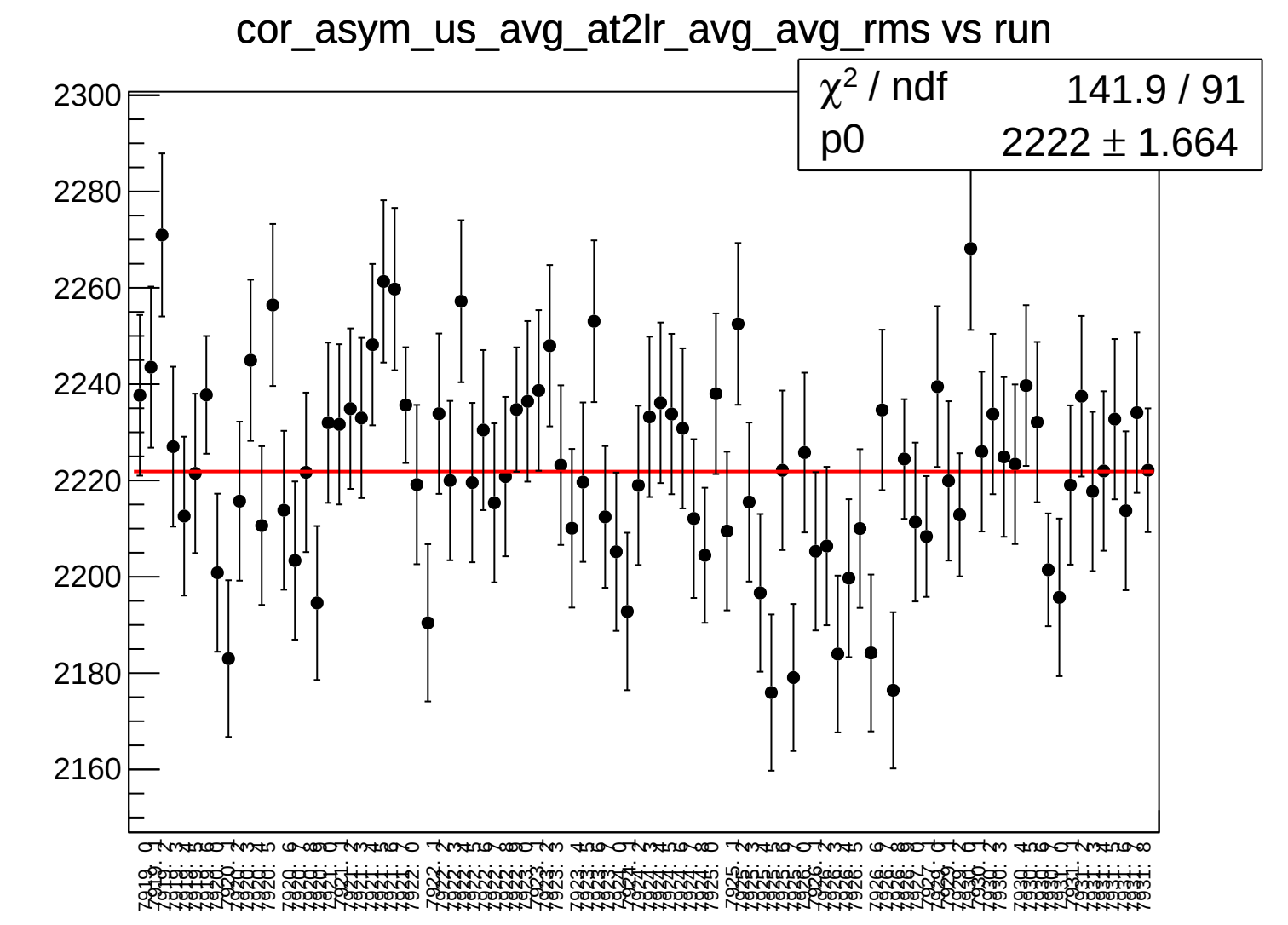

reg_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 141.9 / 91
p0 2222 ± 1.664
2300
2280
2260
2240
2220
2200
2180
2160

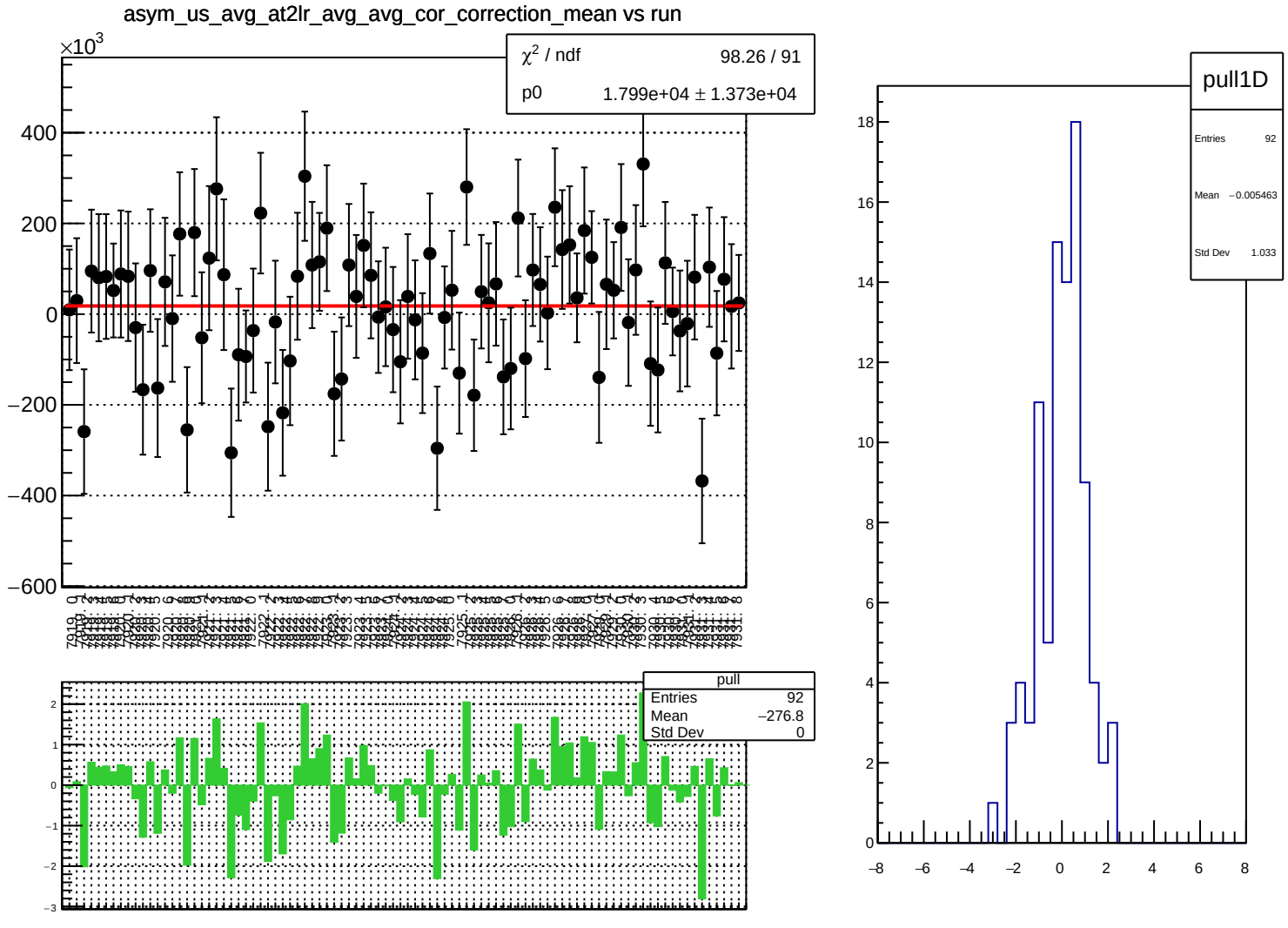

asym_us_avg_at2lr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 98.26 / 91
p0 1.799e+04 ± 1.373e+04
400
200
0
−200
−400
−600
pull
Entries 92
Mean −276.9
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.005461
Std Dev 1.033
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

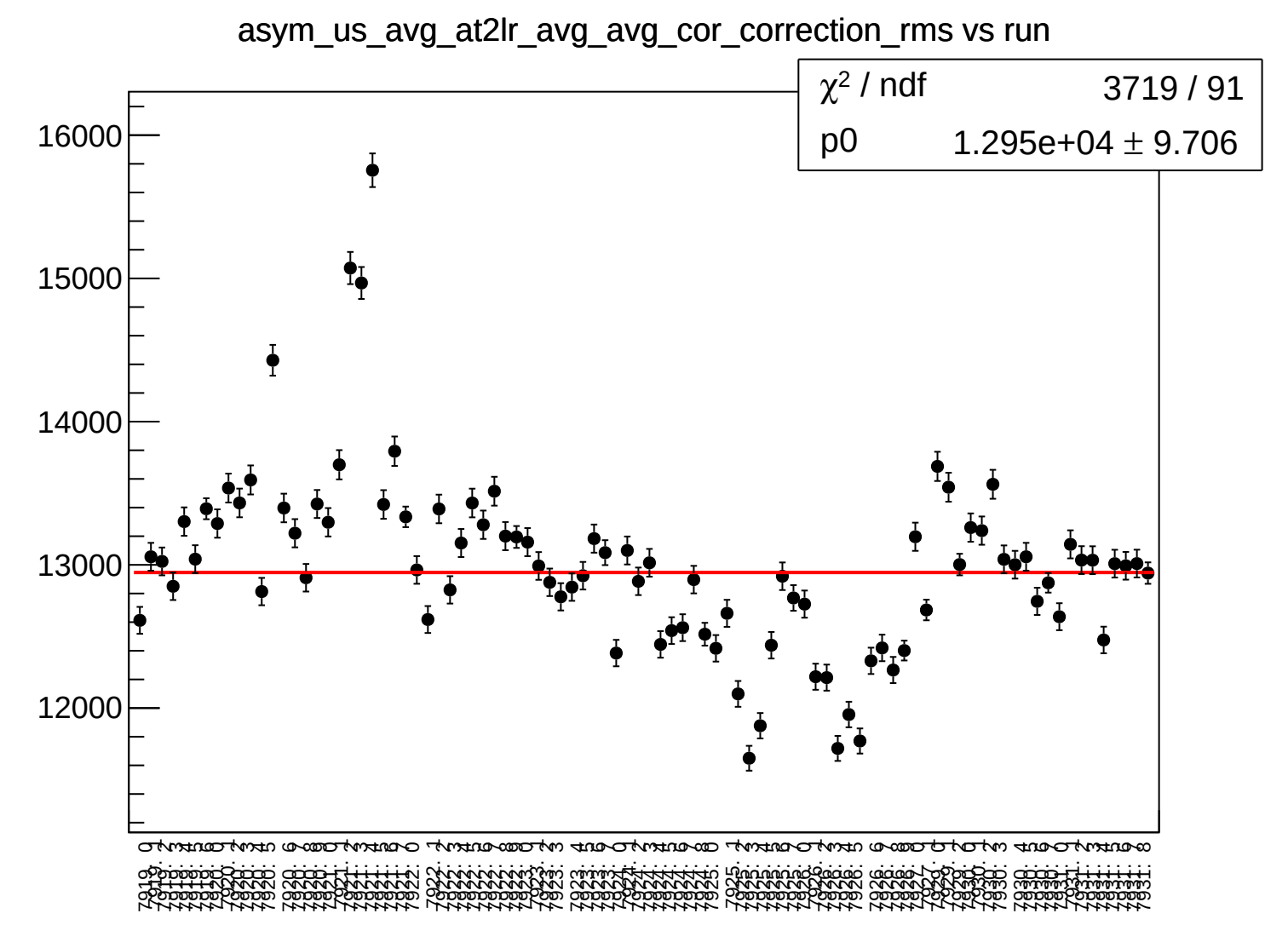

asym_us_avg_at2lr_avg_avg_reg_correction_rms vs run
χ² / ndf 3719 / 91
p0 1.295e+04 ± 9.706
16000
15000
14000
13000
12000

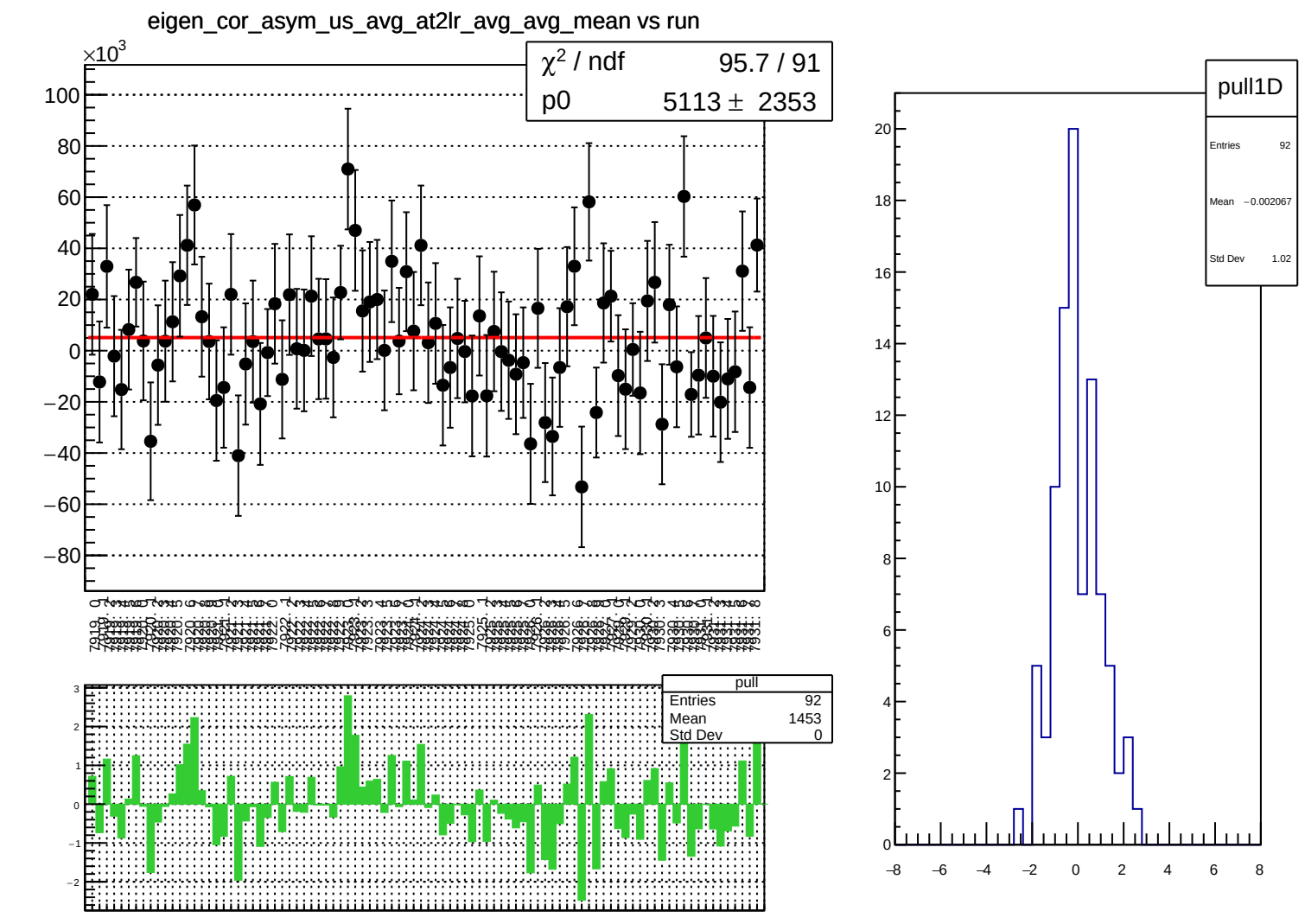

cor_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 95.7 / 91
p0 5113 ± 2353
pull
Entries 92
Mean 1453
Std Dev 0

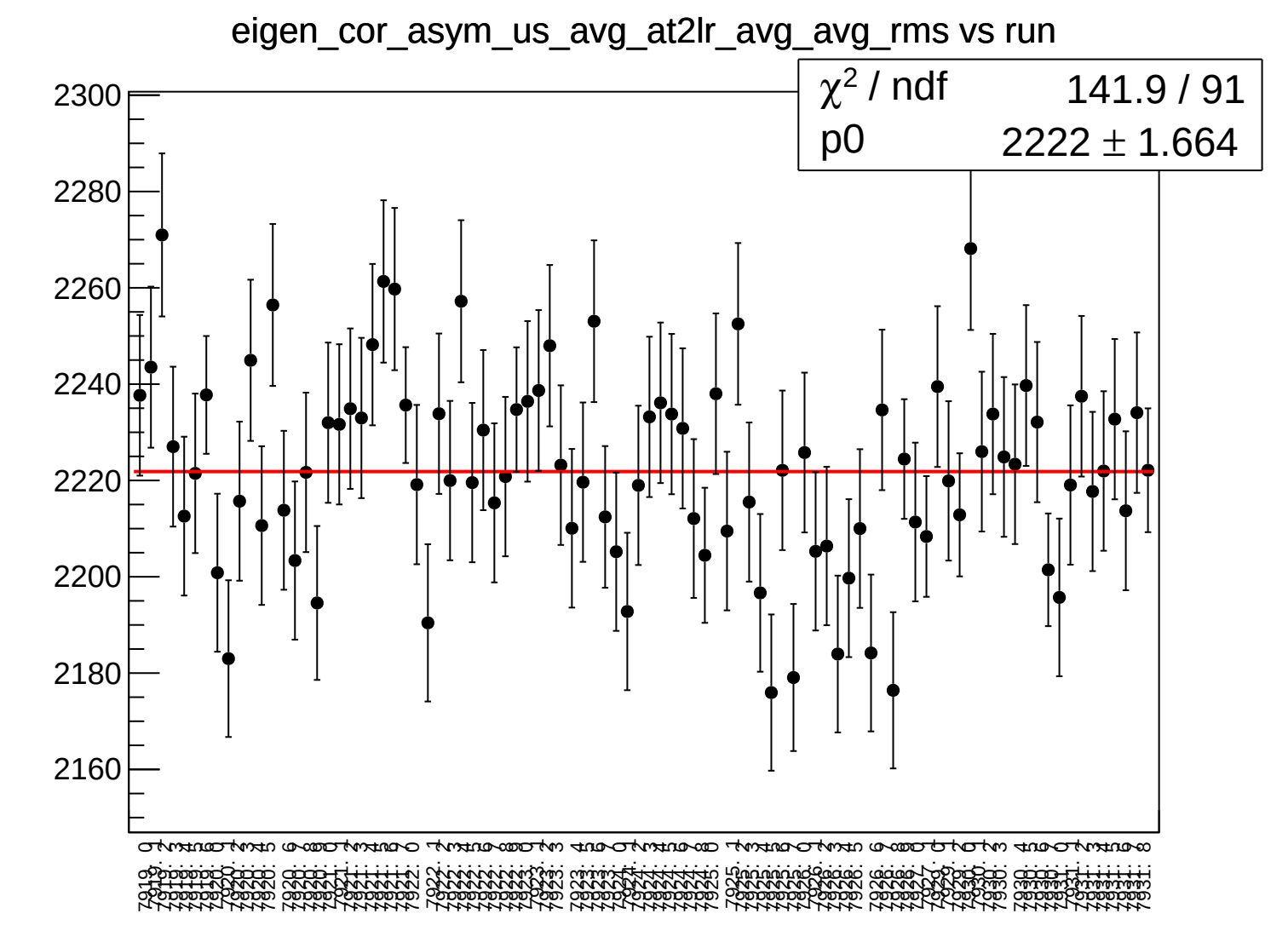

pull1D
Entries 92
Mean −0.002067
Std Dev 1.02

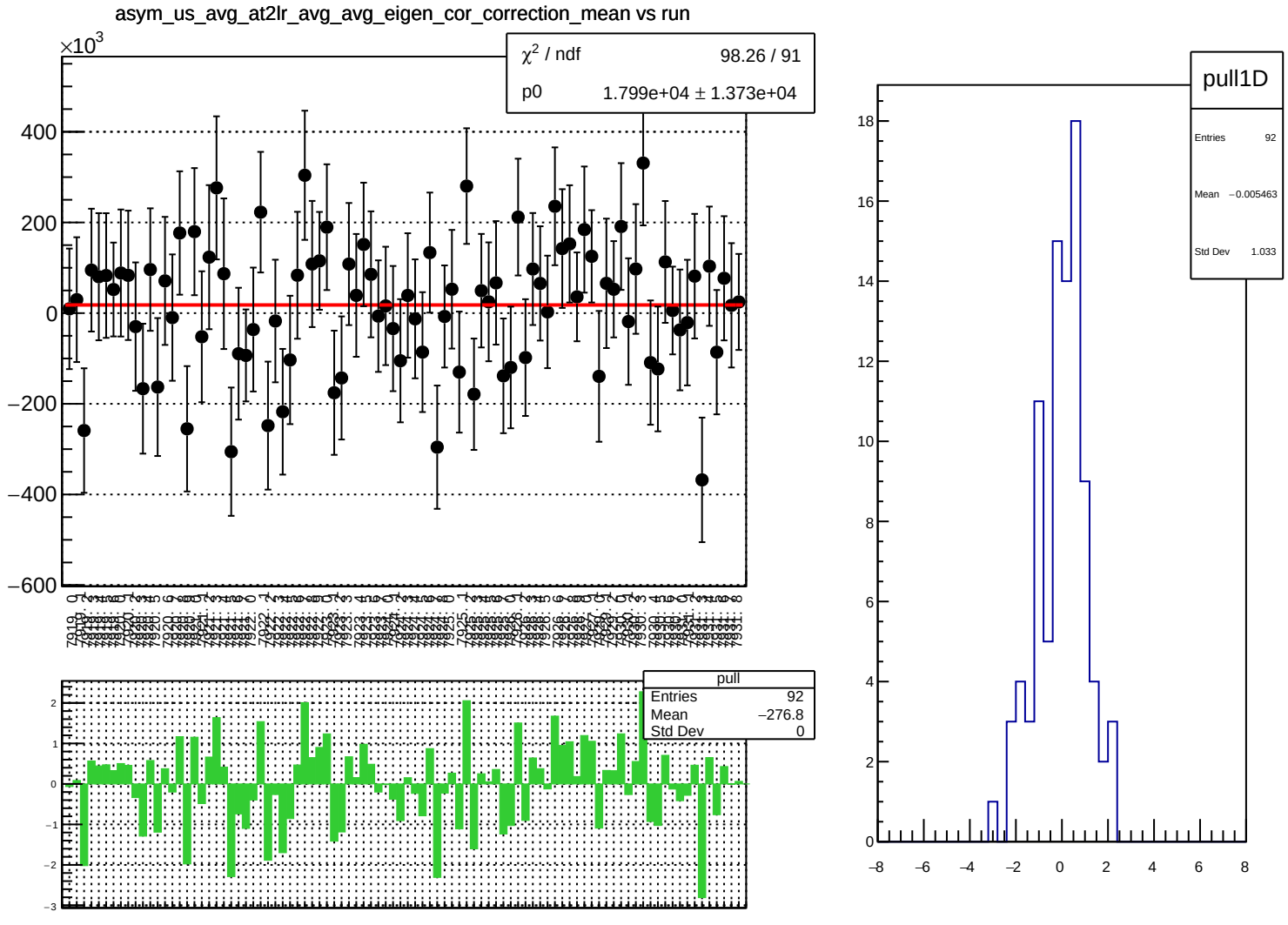

cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ^2 / ndf 141.9 / 91
p0 2222 ± 1.664
2300
2280
2260
2240
2220
2200
2180
2160

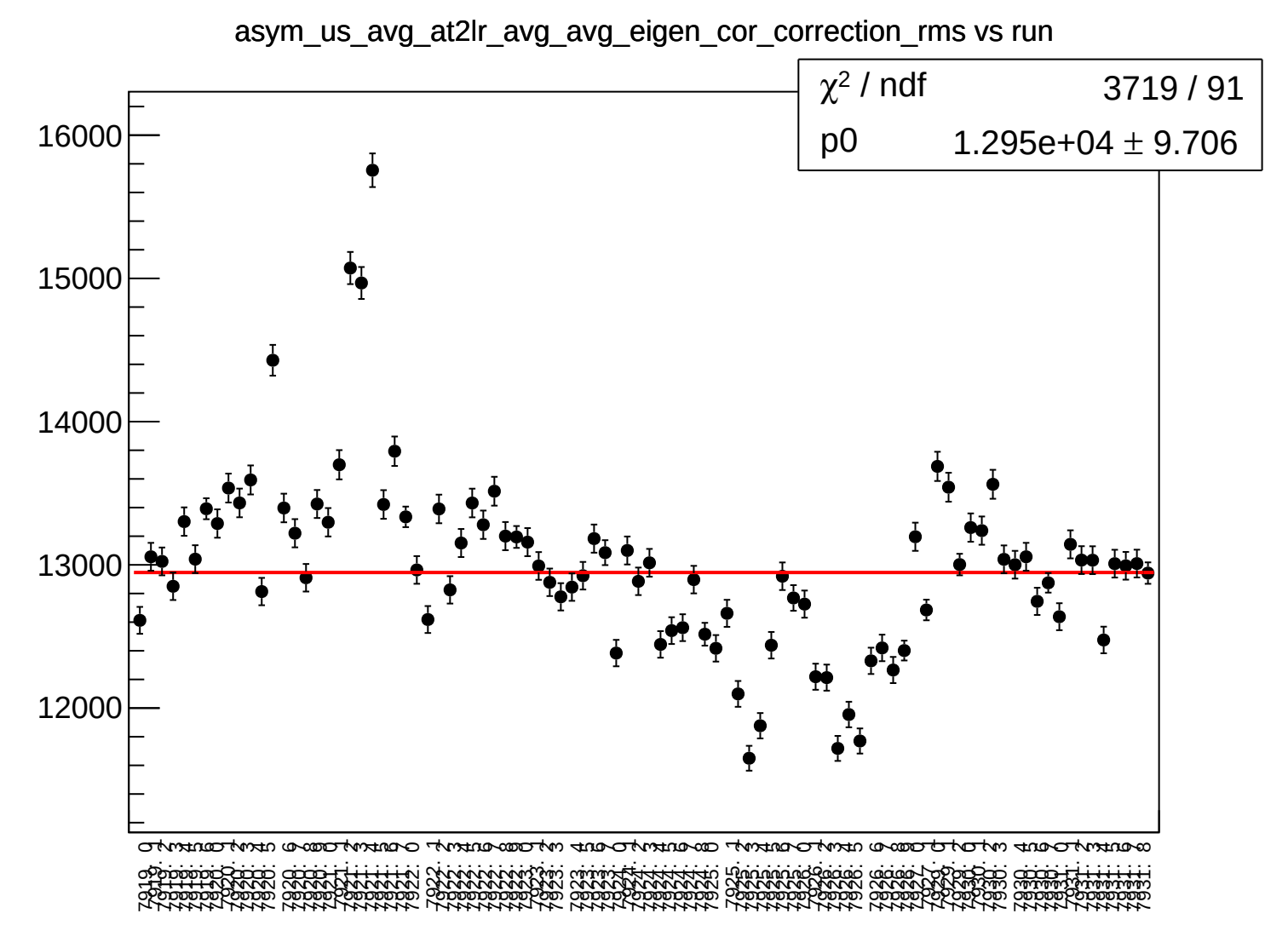

asym_us_avg_at2lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 98.26 / 91
p0 1.799e+04 ± 1.373e+04
400
200
0
−200
−400
−600
pull
Entries 92
Mean −276.8
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.005463
Std Dev 1.033
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

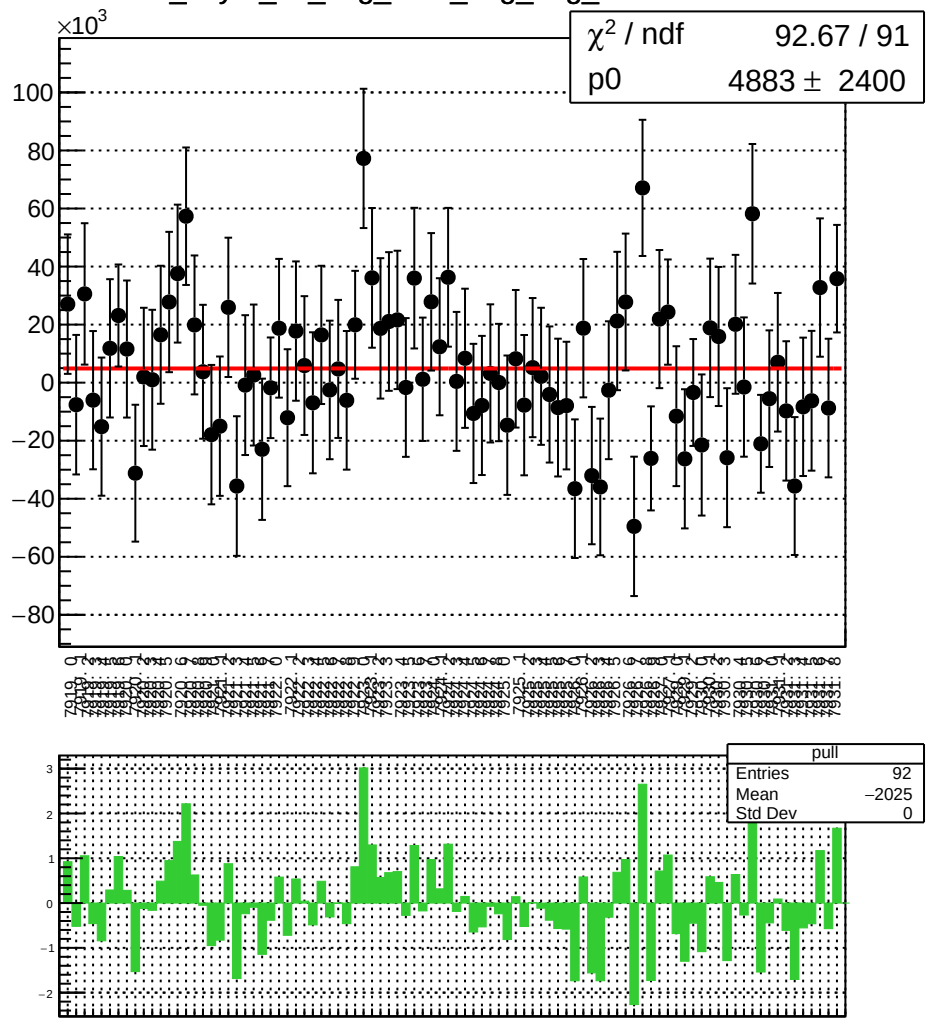

asym_us_avg_at2lr_avg_avg_cor_correction_rms vs run
χ² / ndf 3719 / 91
p0 1.295e+04 ± 9.706
16000
15000
14000
13000
12000

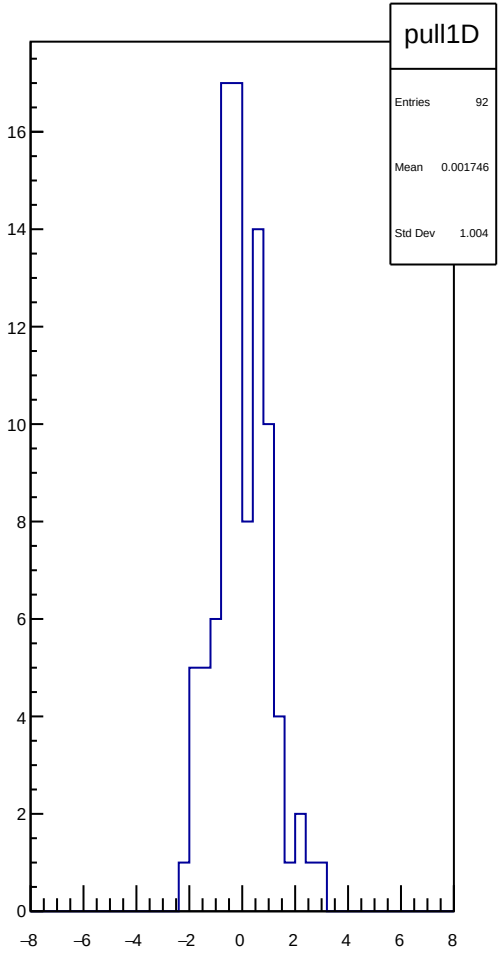

eigen_cor_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 95.7 / 91
p0 5113 ± 2353
pull
Entries 92
Mean 1453
Std Dev 0
pull1D
Entries 92
Mean −0.002067
Std Dev 1.02

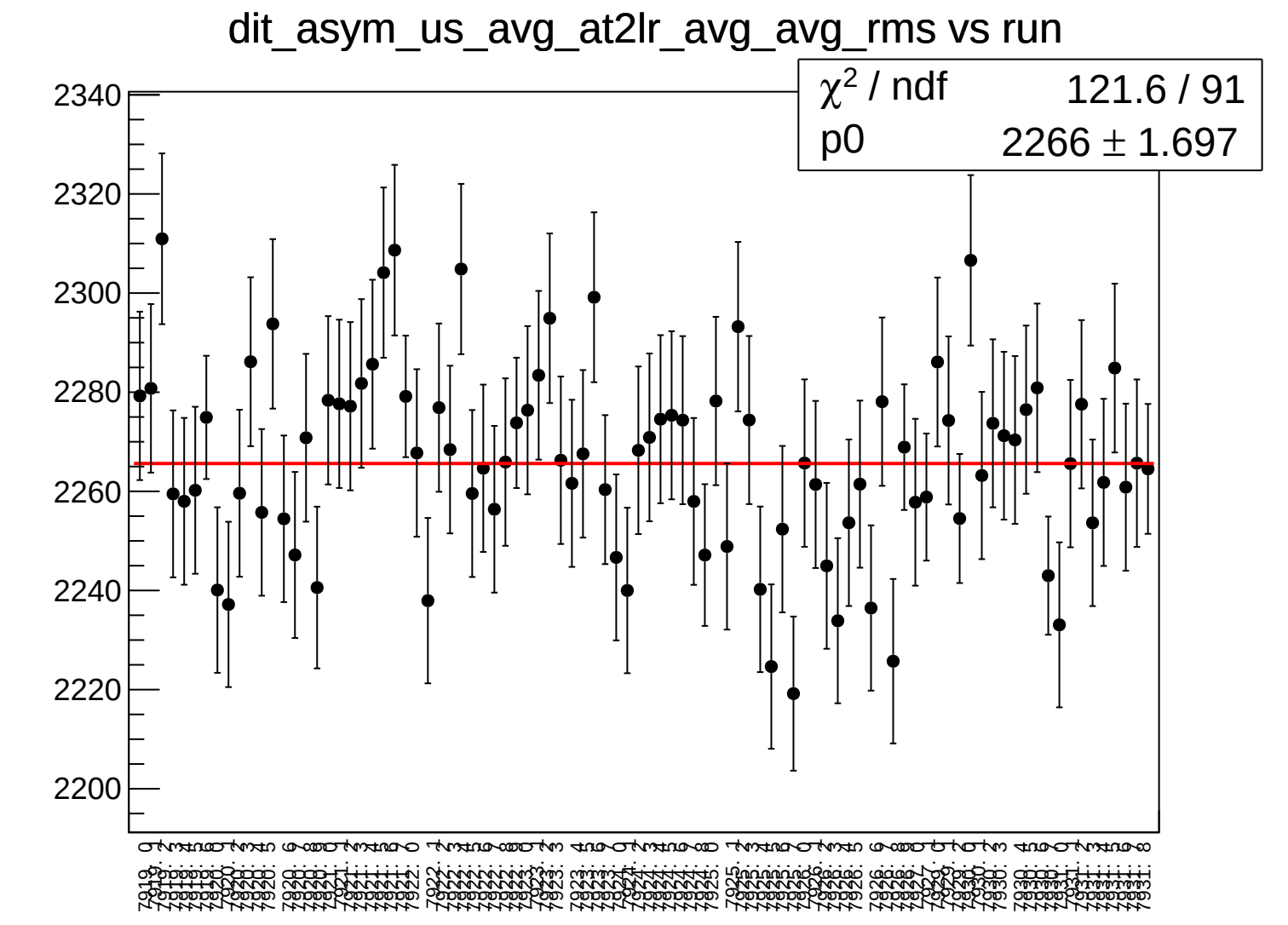

eigen_cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 141.9 / 91
p0 2222 ± 1.664
2300
2280
2260
2240
2220
2200
2180
2160

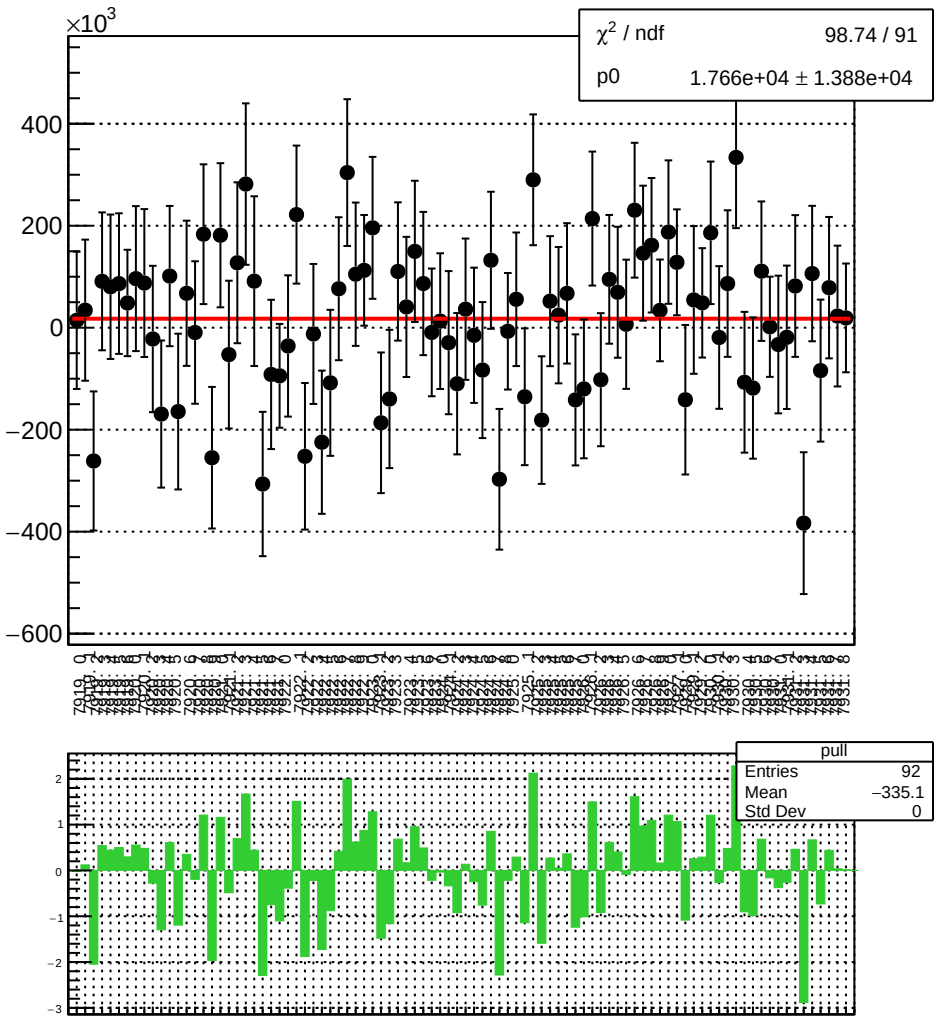

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 98.26 / 91
p0 1.799e+04 ± 1.373e+04
400
200
0
−200
−400
−600
pull
Entries 92
Mean −276.8
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.005463
Std Dev 1.033
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

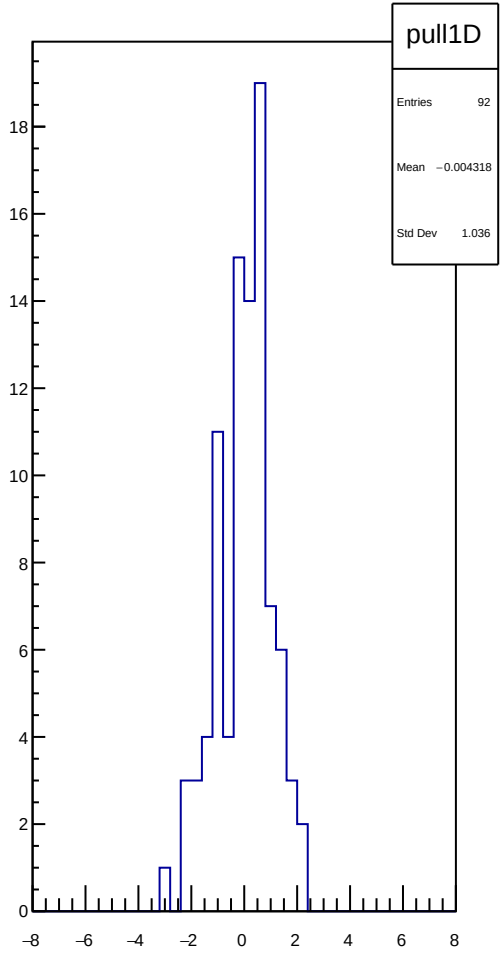

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 3719 / 91
p0 1.295e+04 ± 9.706
16000
15000
14000
13000
12000

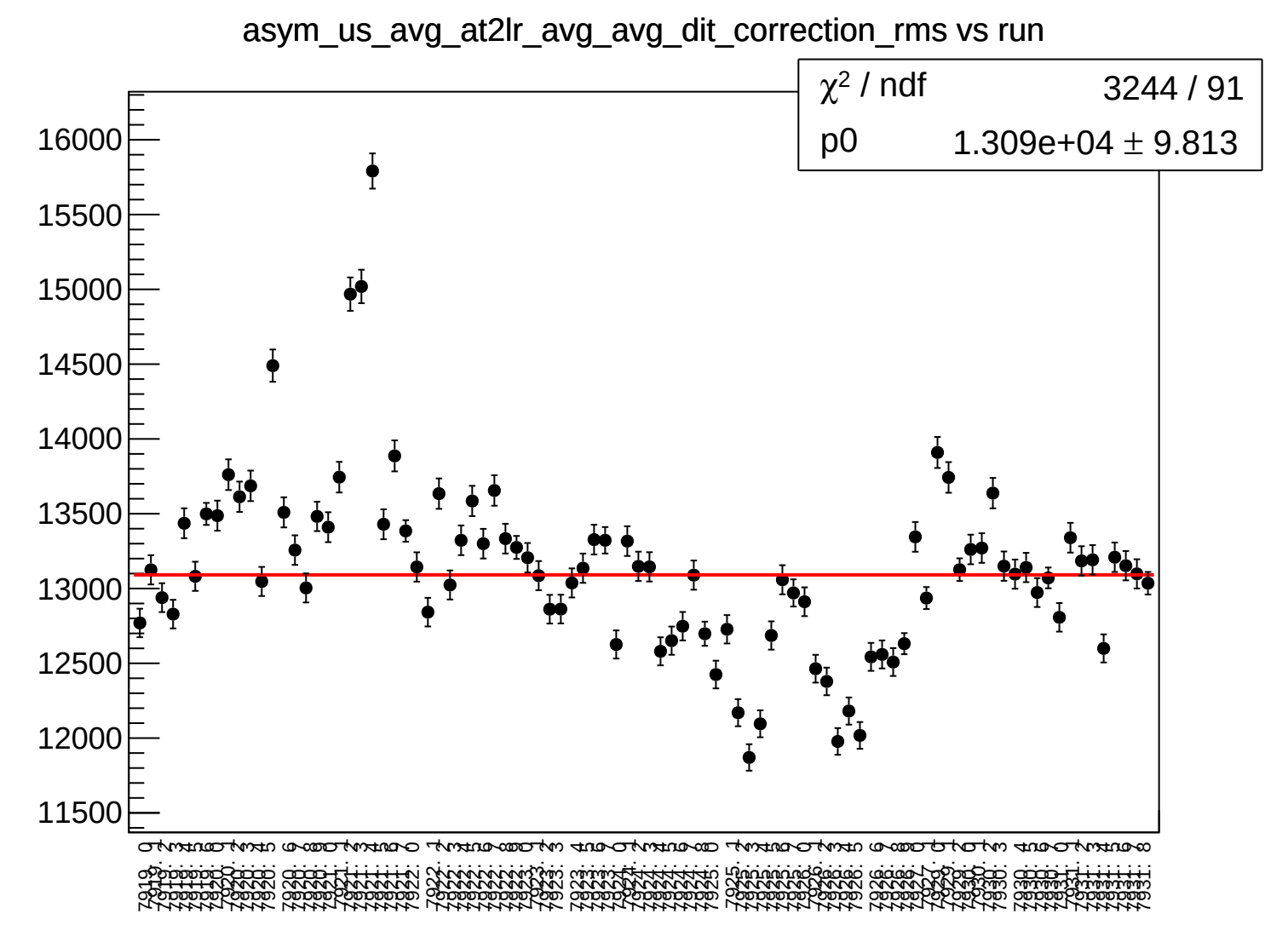

dit_asym_us_avg_at2lr_avg_avg_mean vs run
χ^2 / ndf 92.67 / 91
p0 4883 ± 2400
×10^3
pull
Entries 92
Mean −2025
Std Dev 0

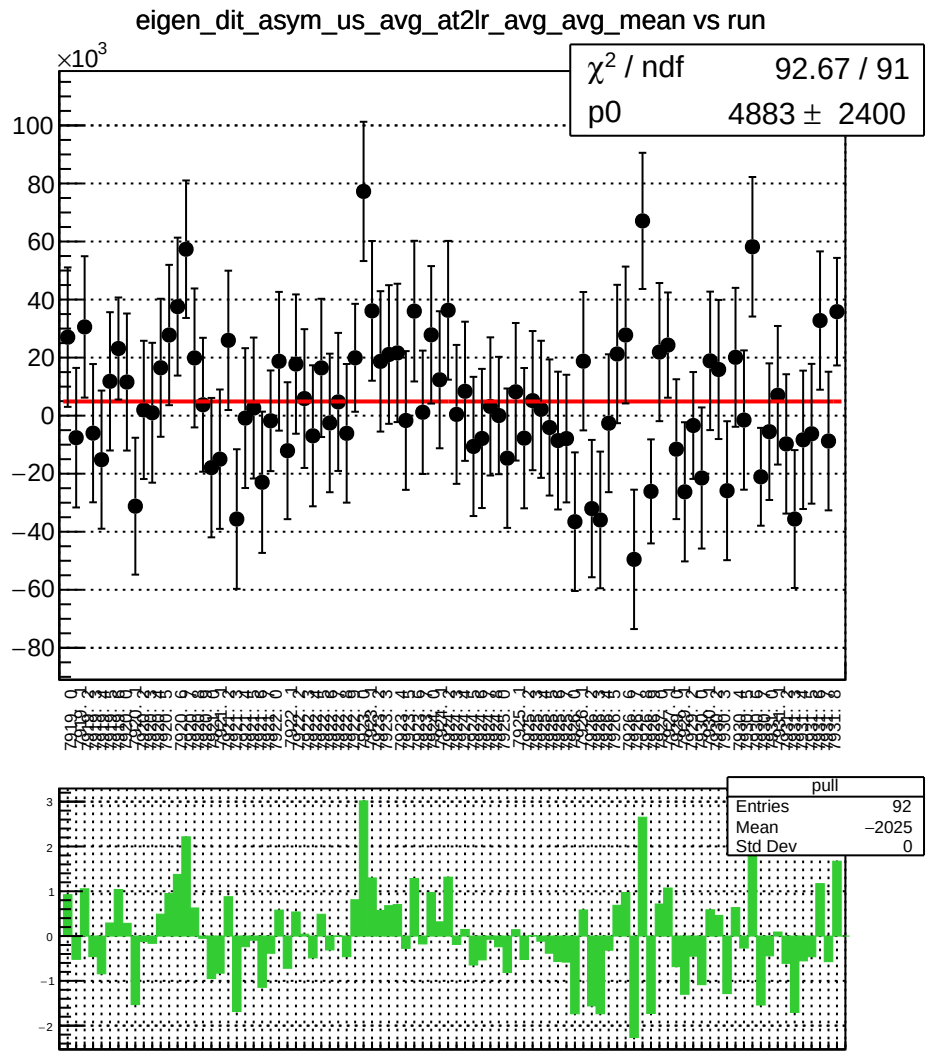

pull1D
Entries 92
Mean 0.001746
Std Dev 1.004

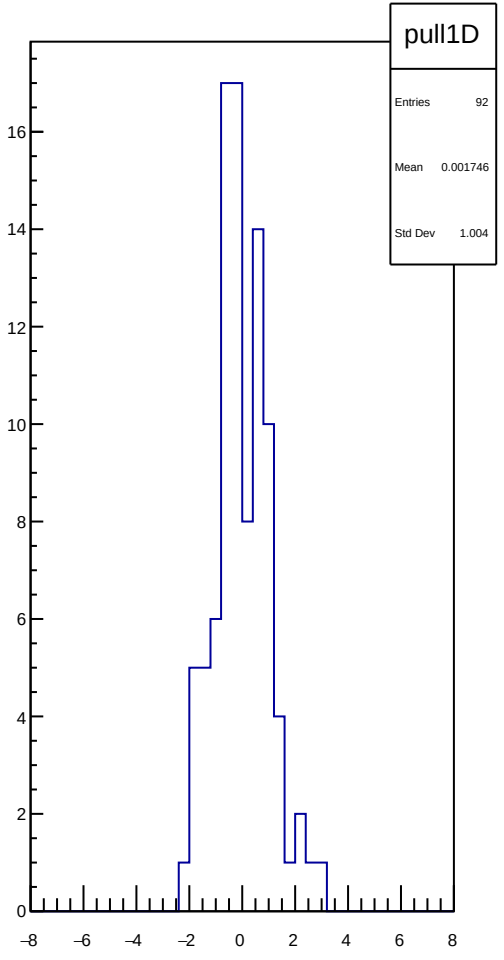

dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 121.6 / 91
p0 2266 ± 1.697
2340
2320
2300
2280
2260
2240
2220
2200

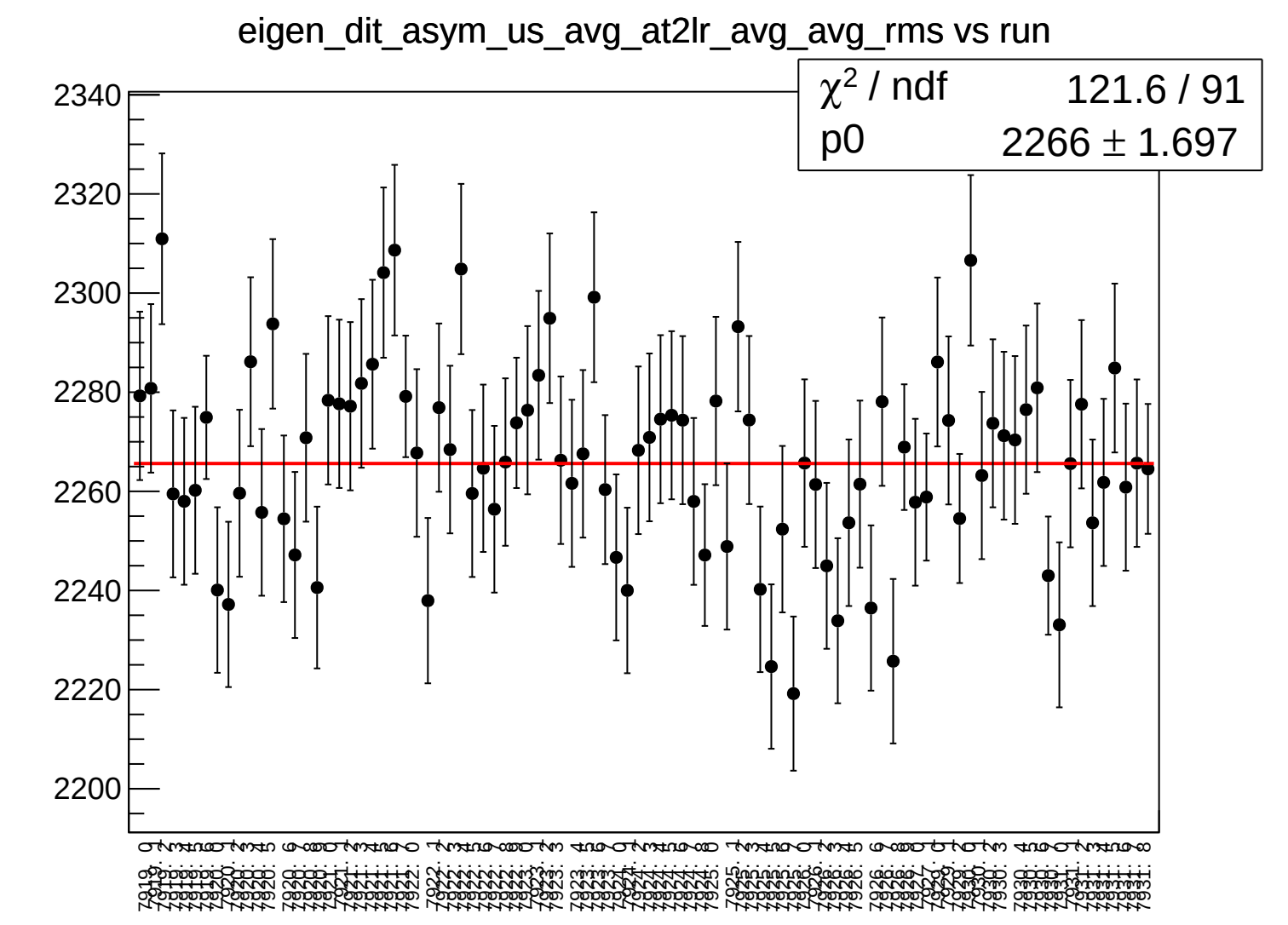

asym_us_avg_at2lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 98.74 / 91
p0 1.766e+04 ± 1.388e+04
400
200
0
−200
−400
−600
pull
Entries 92
Mean −335.1
Std Dev 0
2
1
0
−1
−2
−3

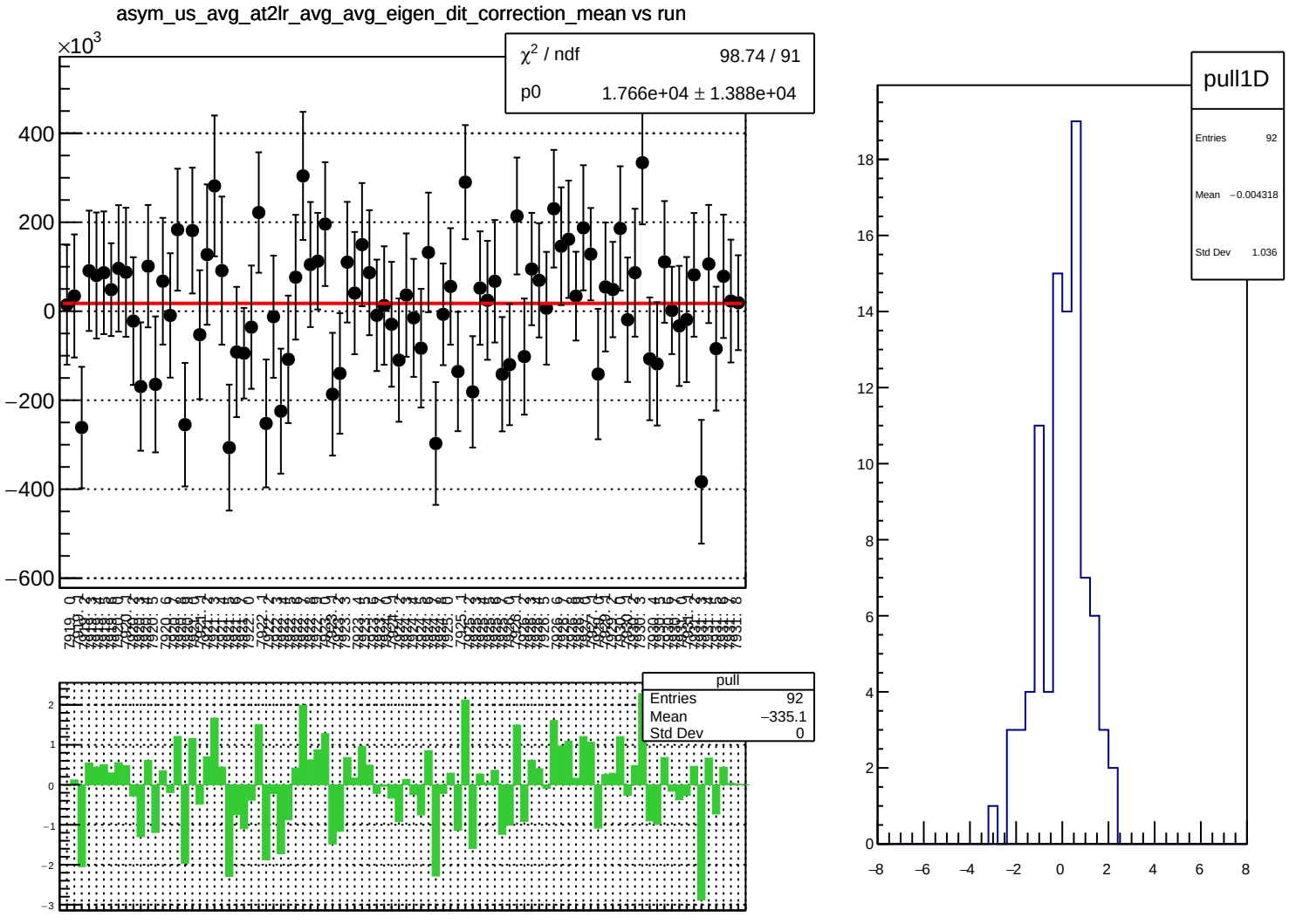

pull1D
Entries 92
Mean −0.004318
Std Dev 1.036
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

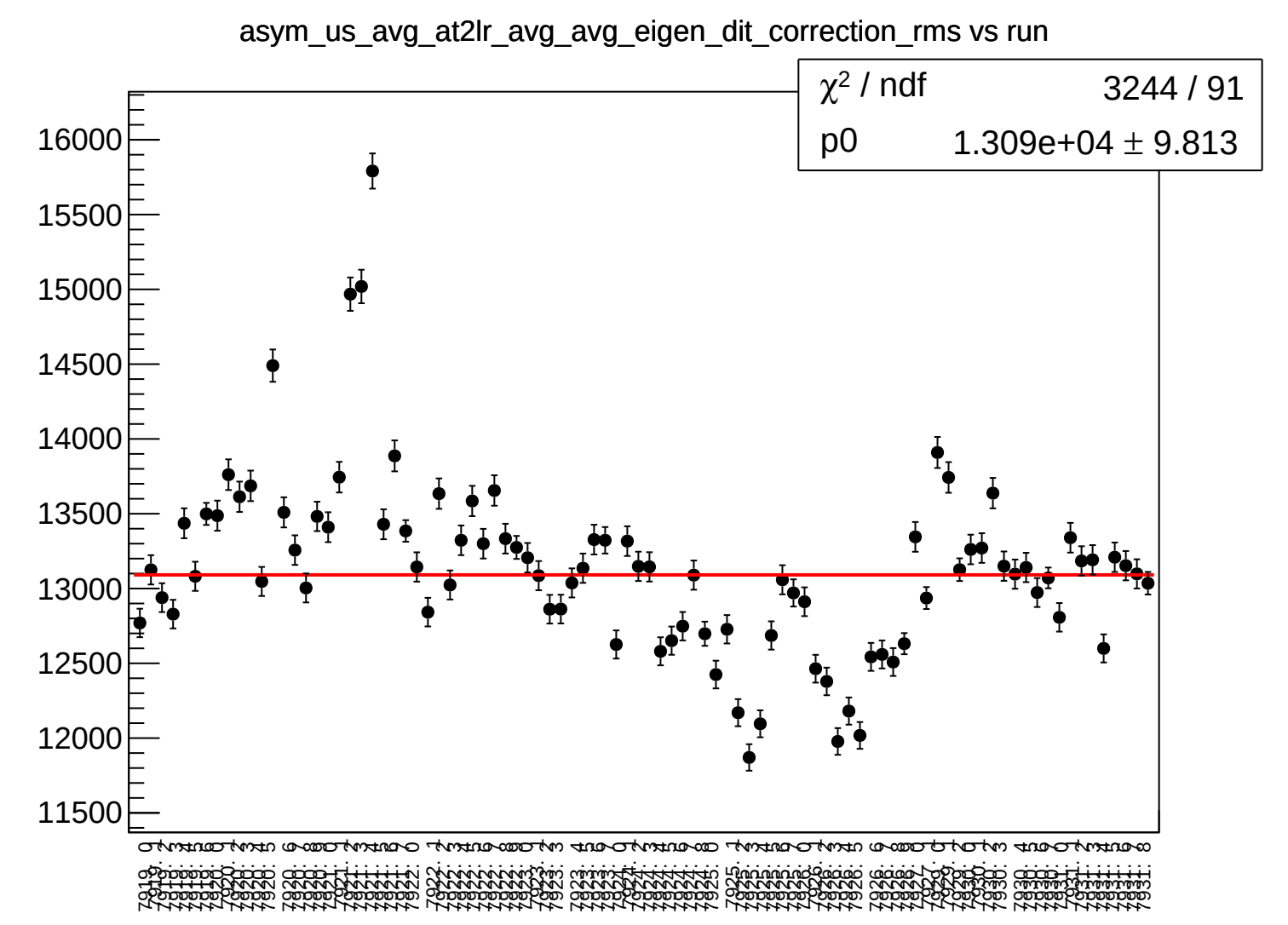

asym_us_avg_at2lr_avg_avg_dit_correction_rms vs run
χ² / ndf 3244 / 91
p0 1.309e+04 ± 9.813
16000
15500
15000
14500
14000
13500
13000
12500
12000
11500

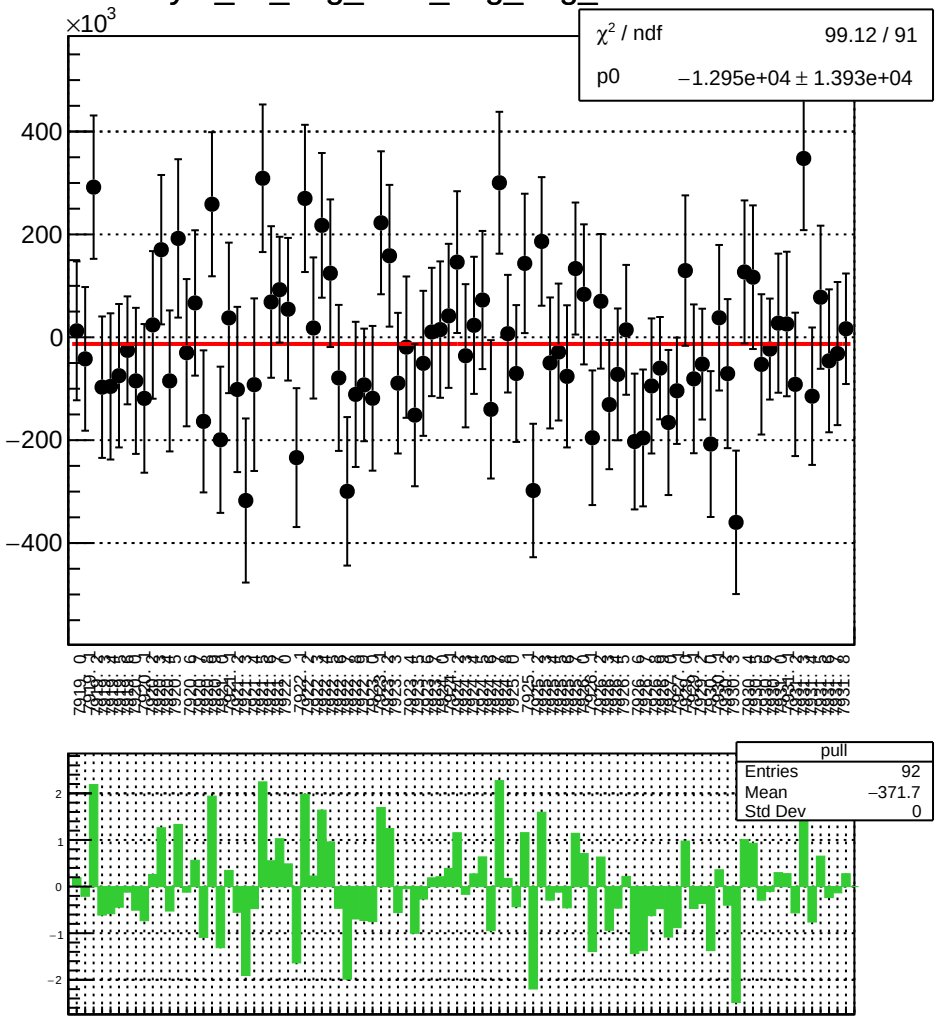

eigen_dit_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 92.67 / 91
p0 4883 ± 2400
pull
Entries 92
Mean −2025
Std Dev 0

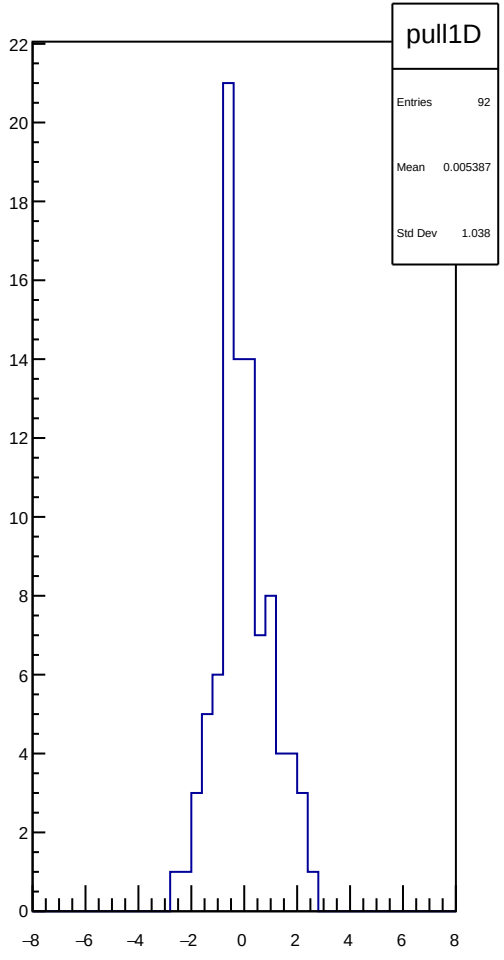

pull1D
Entries 92
Mean 0.001746
Std Dev 1.004

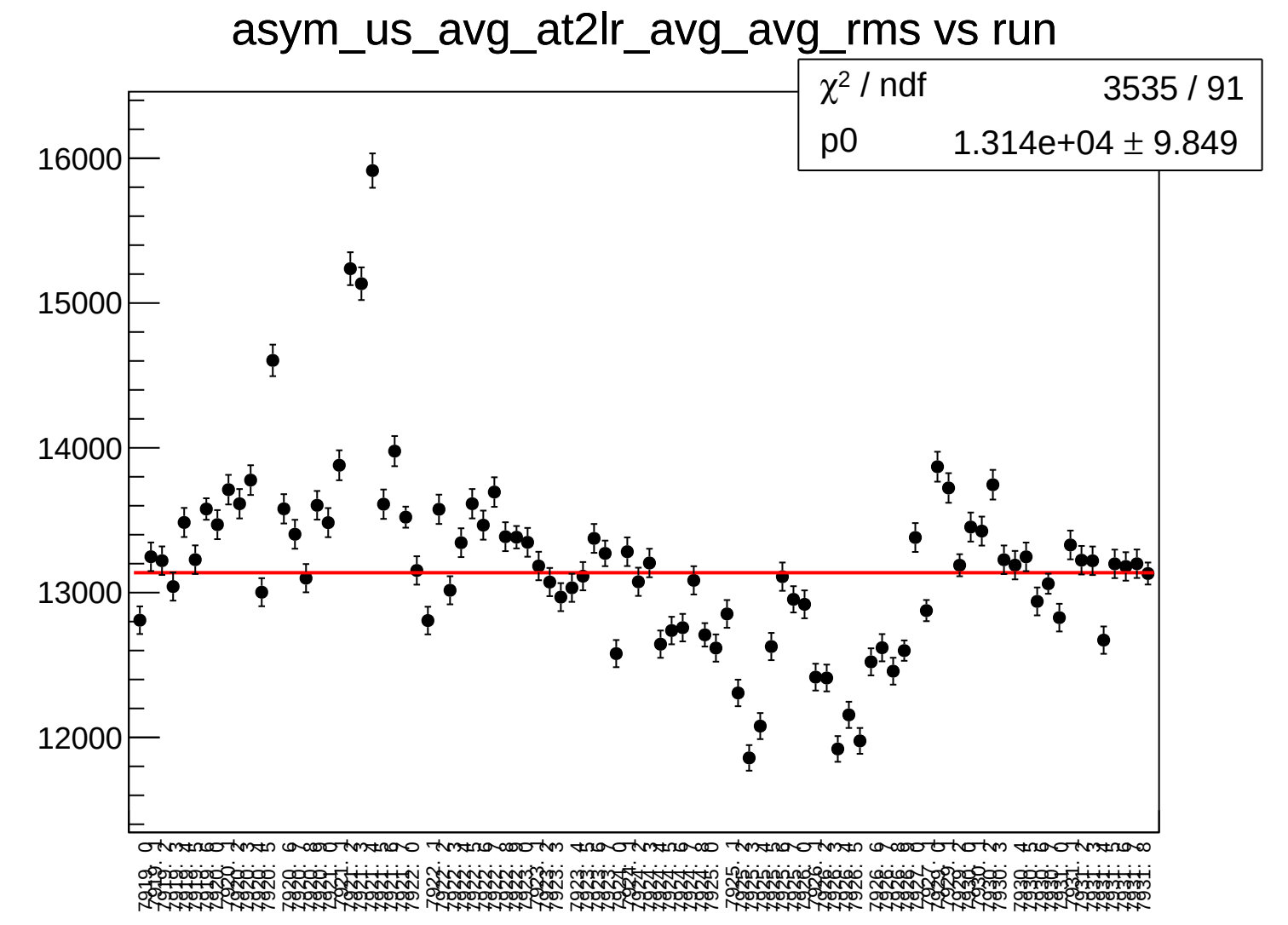

eigen_dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 121.6 / 91
p0 2266 ± 1.697
2340
2320
2300
2280
2260
2240
2220
2200

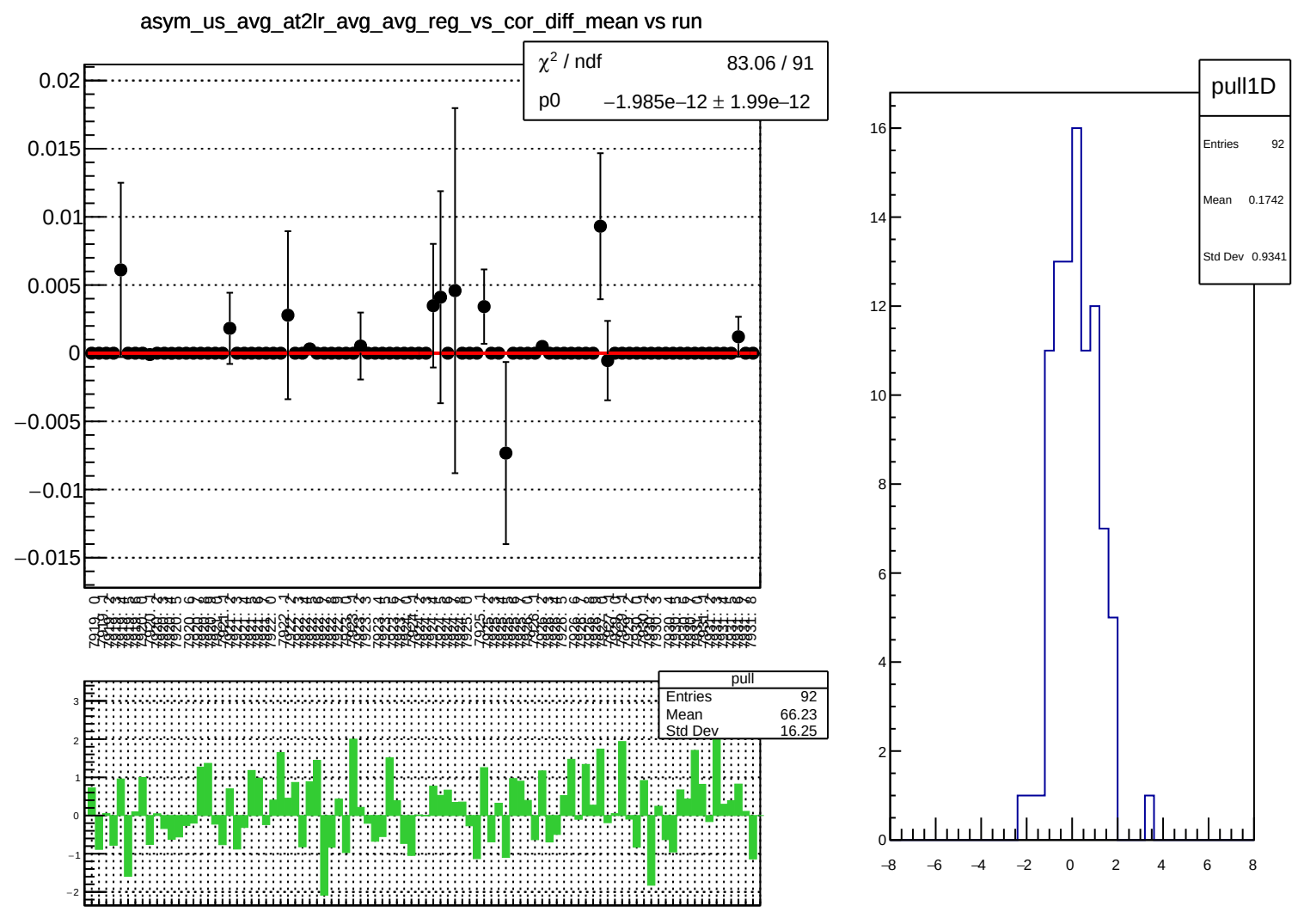

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 98.74 / 91
p0 1.766e+04 ± 1.388e+04
400
200
0
−200
−400
−600
pull
Entries 92
Mean −335.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.004318
Std Dev 1.036
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

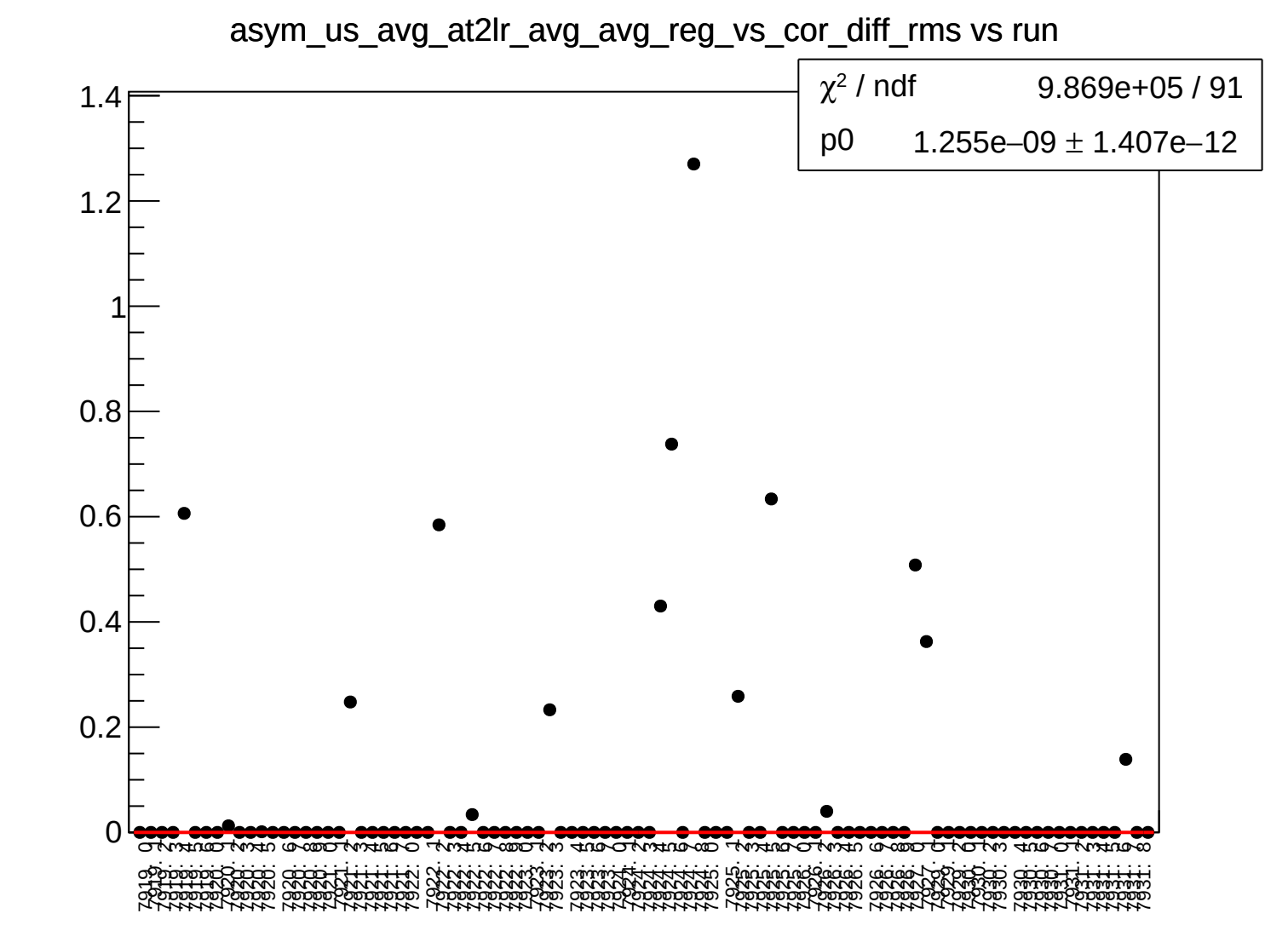

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 3244 / 91
p0 1.309e+04 ± 9.813
16000
15500
15000
14500
14000
13500
13000
12500
12000
11500

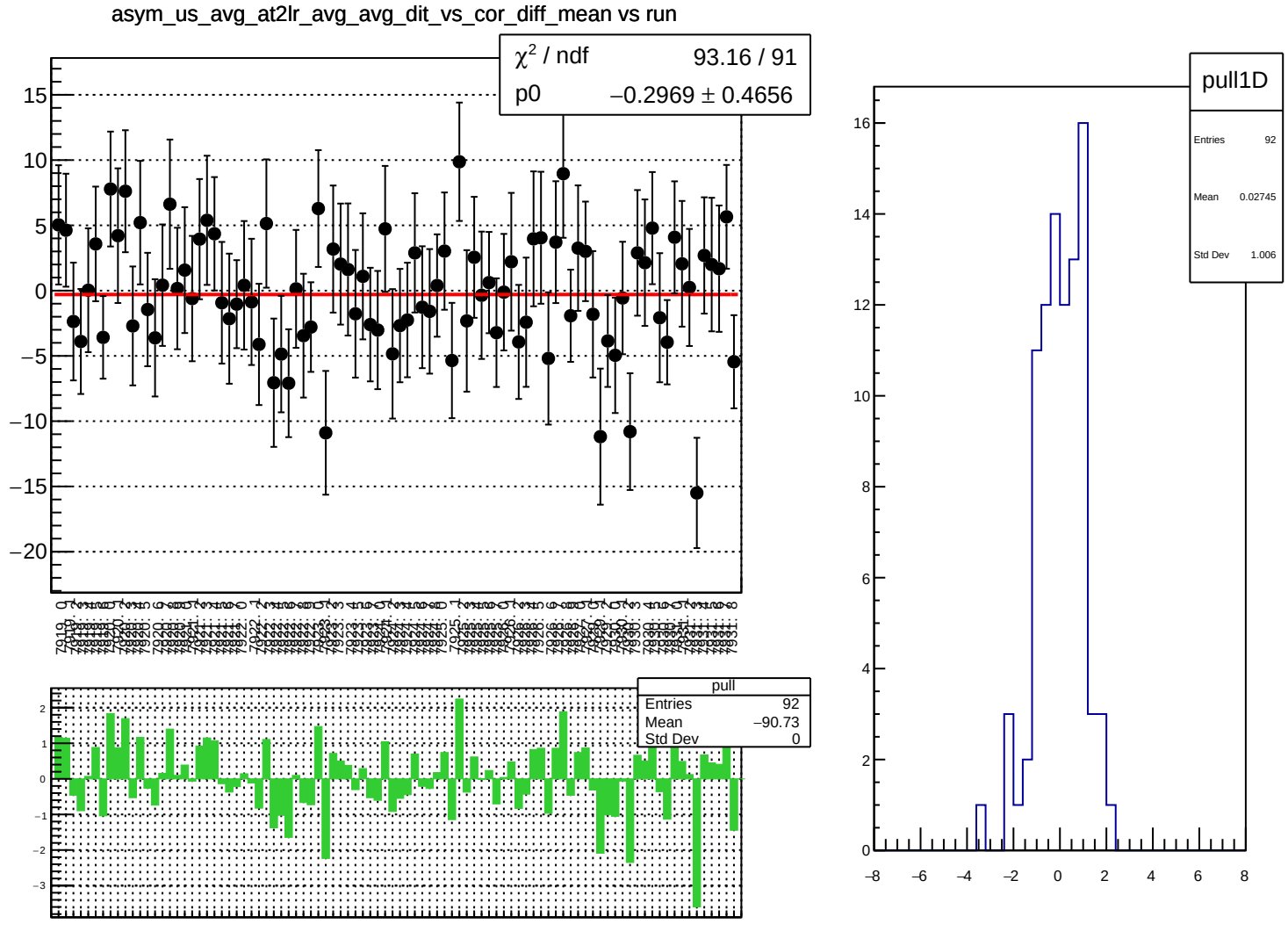

asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 99.12 / 91
p0 −1.295e+04 ± 1.393e+04
400
200
0
−200
−400
pull
Entries 92
Mean −371.7
Std Dev 0
2
1
0
−1
−2

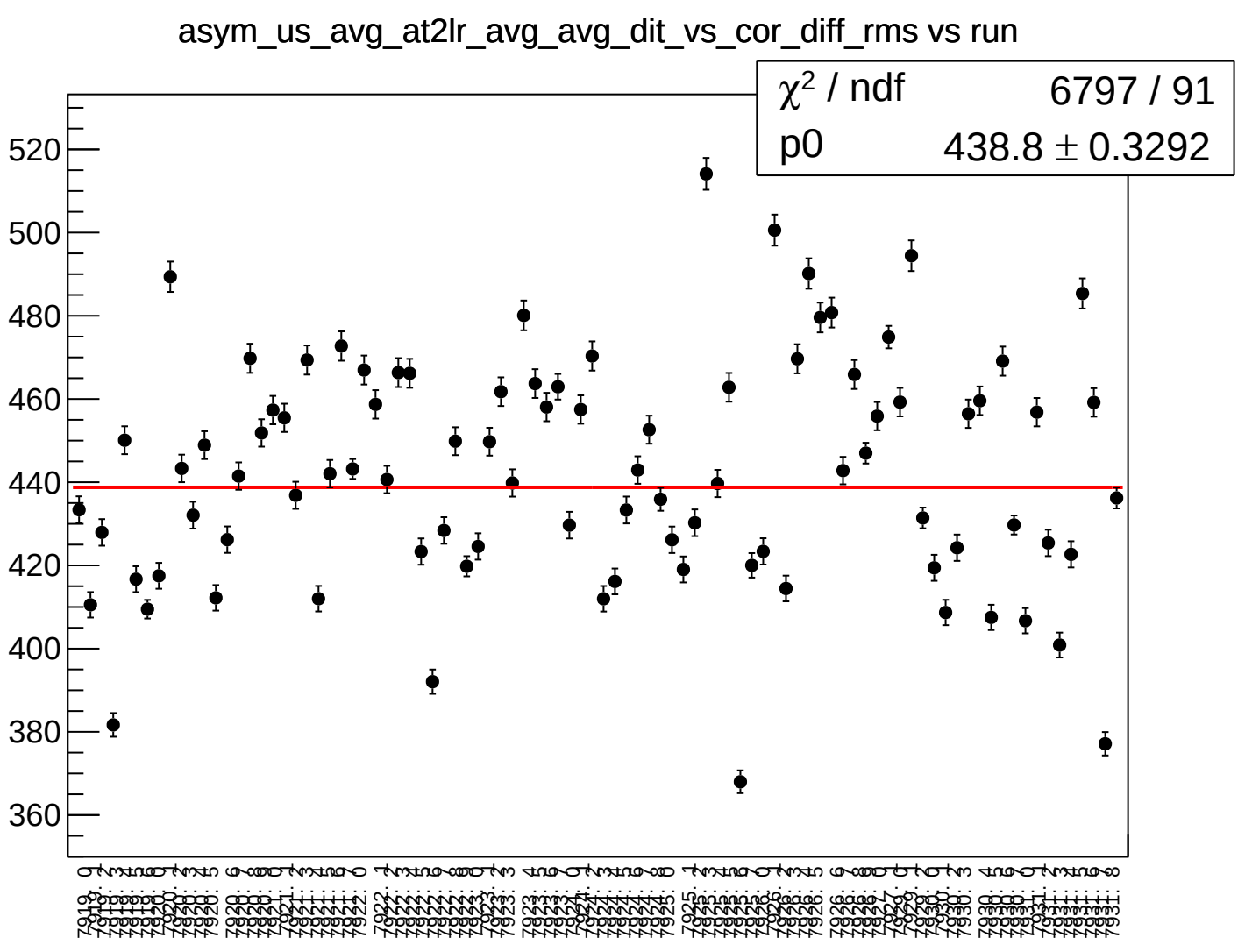

pull1D
Entries 92
Mean 0.005387
Std Dev 1.038
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

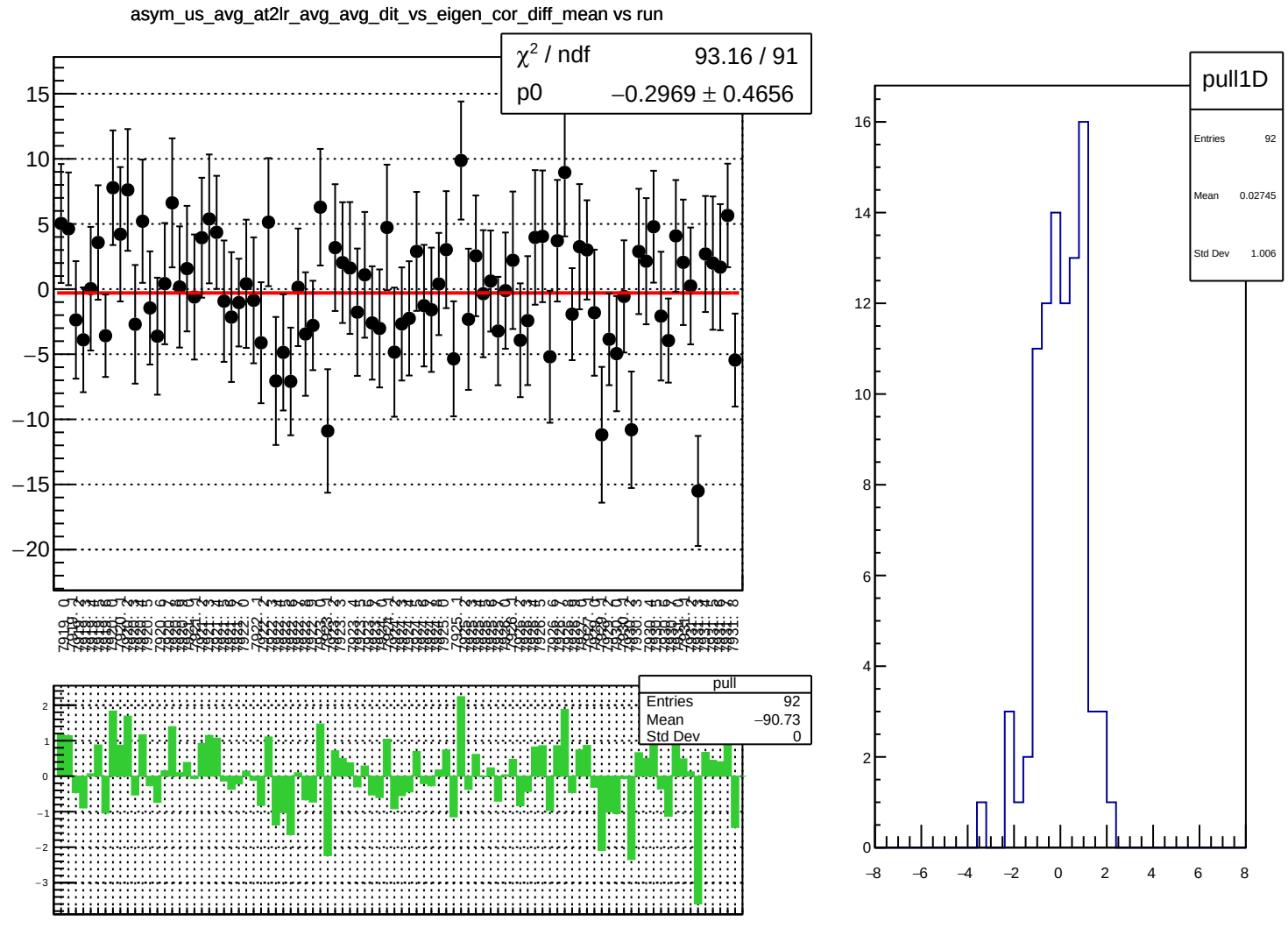

asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 3535 / 91
p0 1.314e+04 ± 9.849
16000
15000
14000
13000
12000

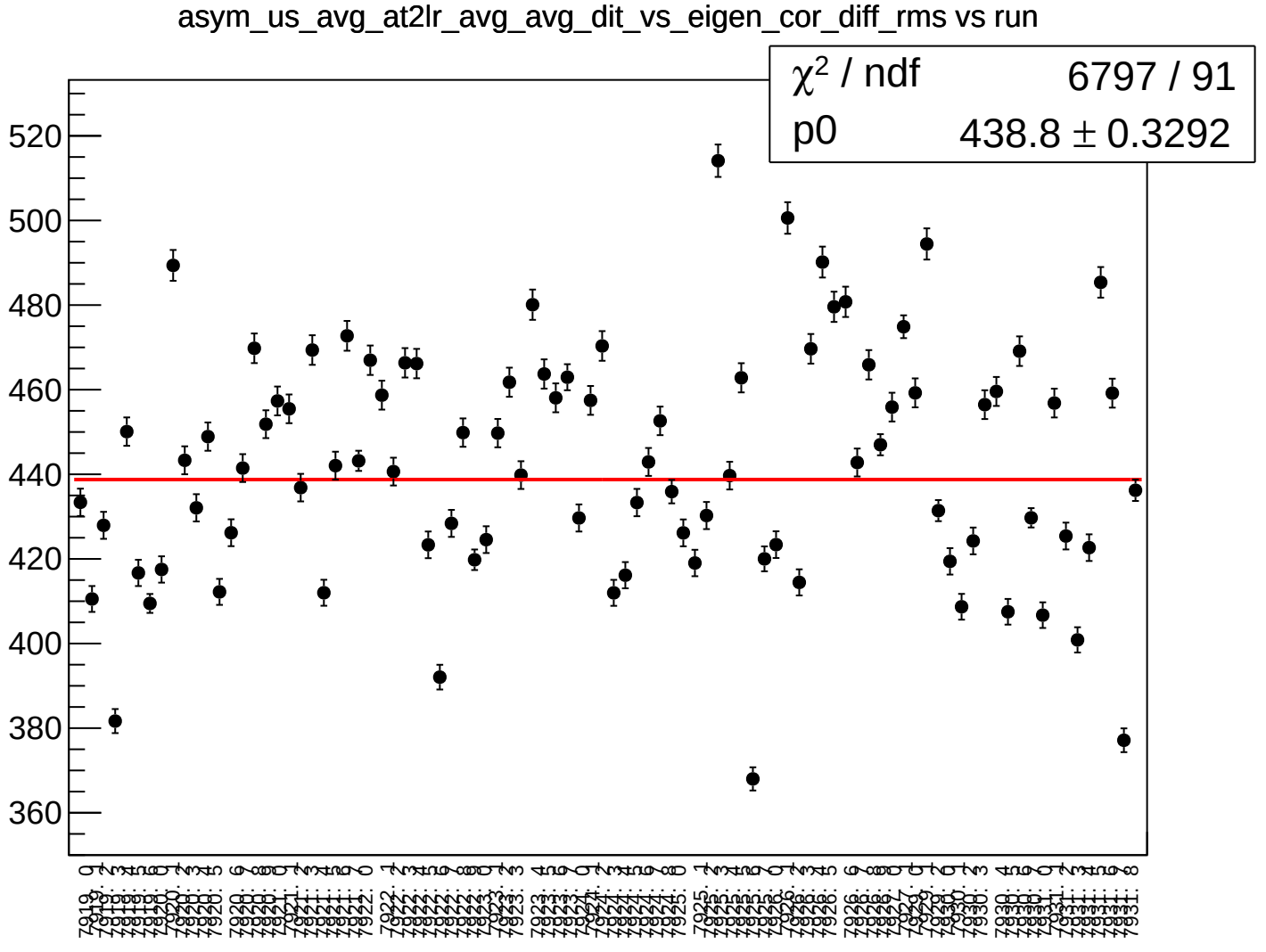

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 83.06 / 91
p0 −1.985e−12 ± 1.99e−12
pull
Entries 92
Mean 66.23
Std Dev 16.25
pull1D
Entries 92
Mean 0.1742
Std Dev 0.9341

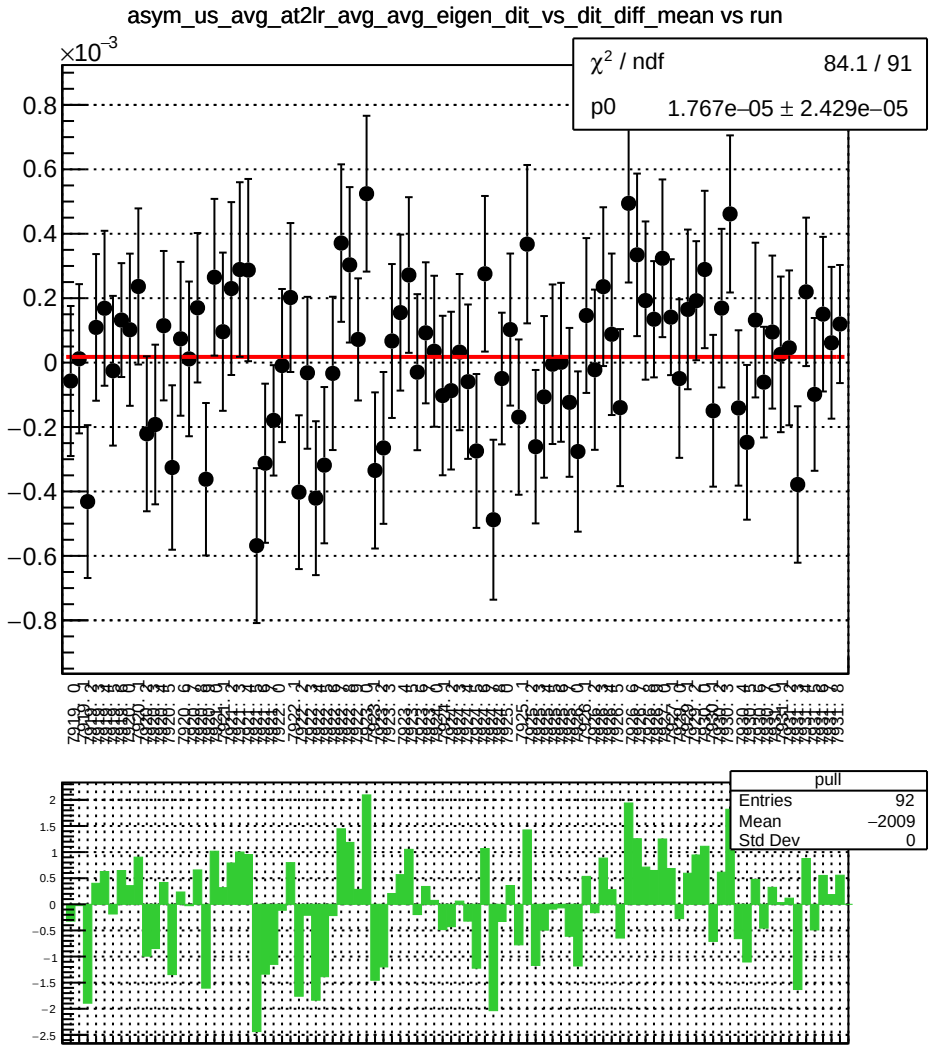

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.869e+05 / 91
p0 1.255e−09 ± 1.407e−12
1.4
1.2
1
0.8
0.6
0.4
0.2
0

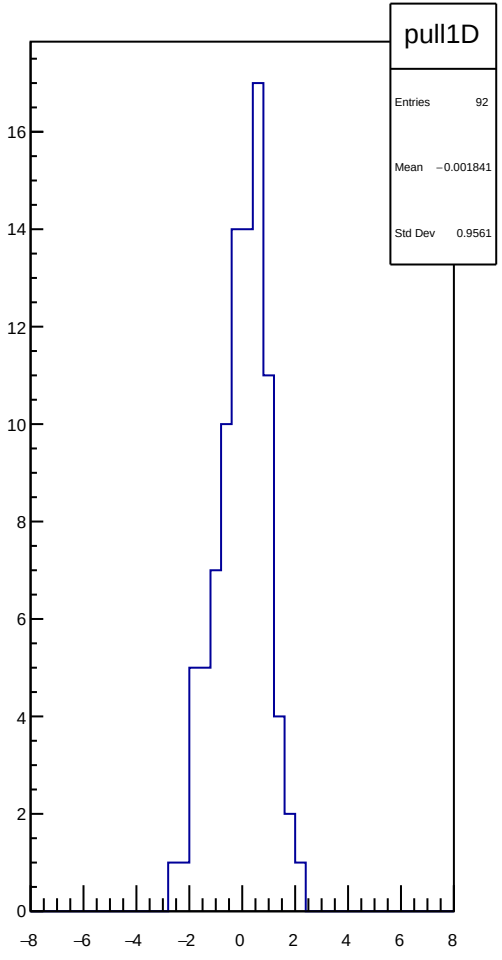

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 93.16 / 91
p0 −0.2969 ± 0.4656
pull
Entries 92
Mean −90.73
Std Dev 0
pull1D
Entries 92
Mean 0.02745
Std Dev 1.006

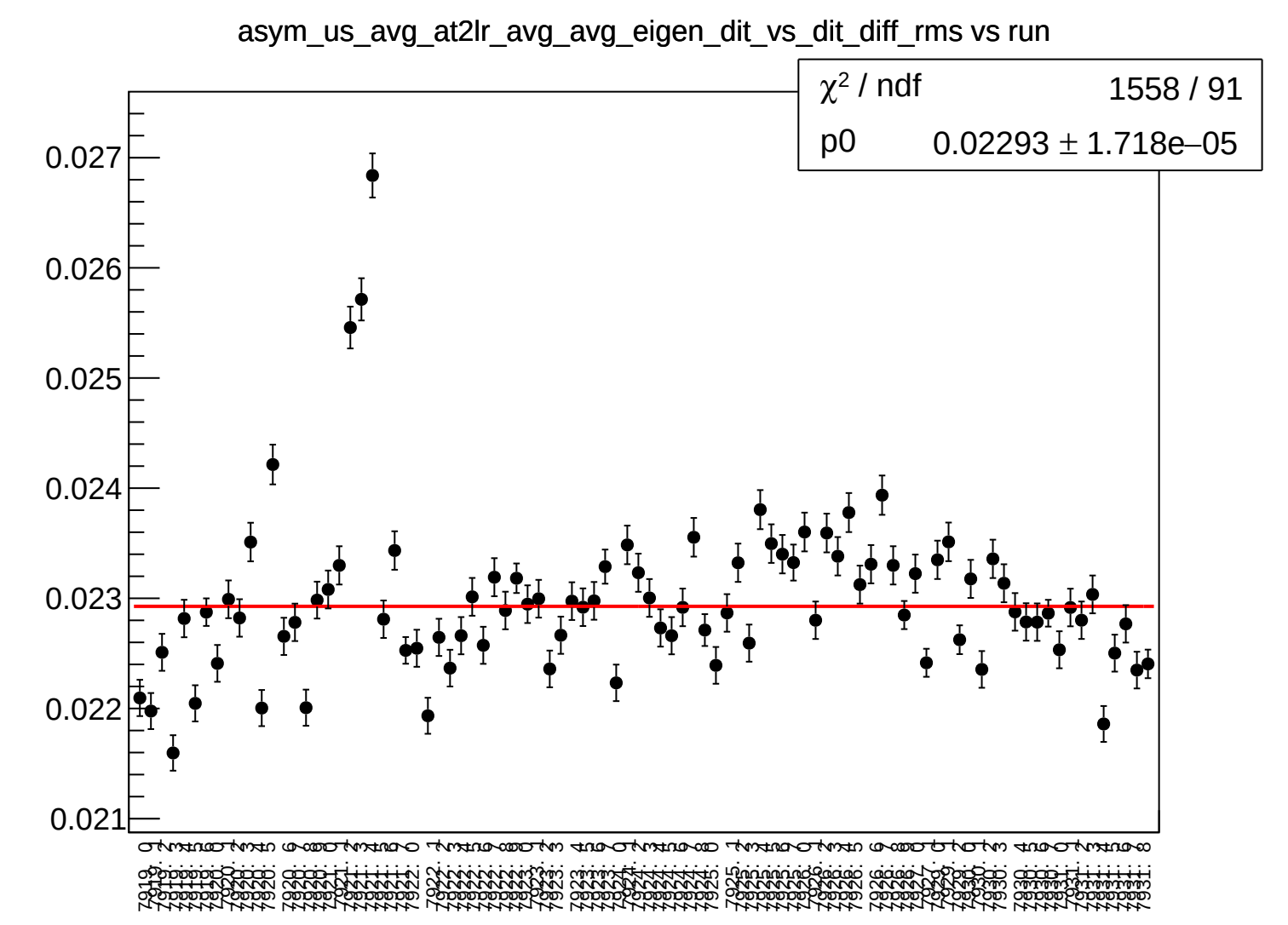

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6797 / 91
p0 438.8 ± 0.3292
520
500
480
460
440
420
400
380
360

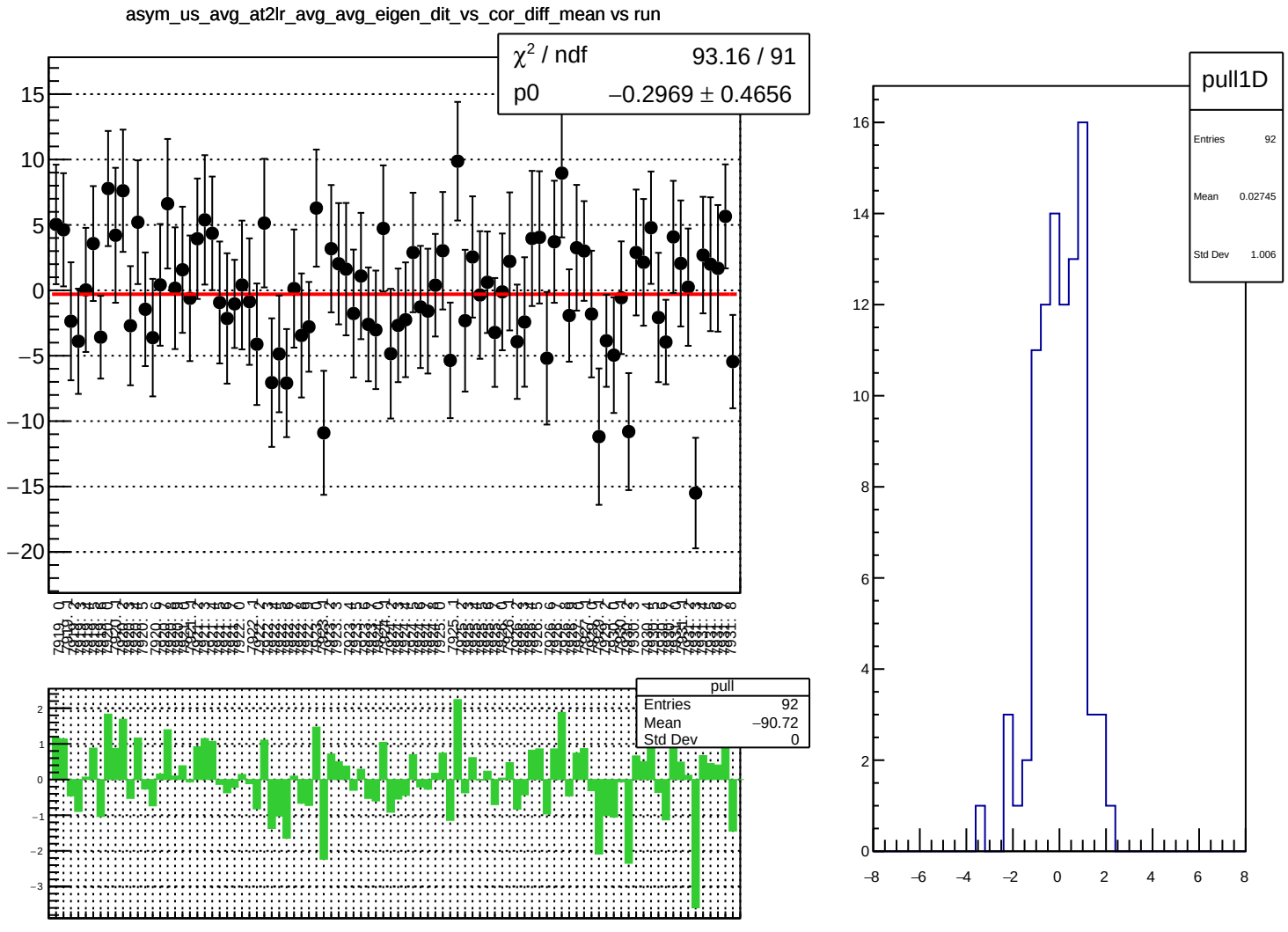

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.16 / 91
p0 −0.2969 ± 0.4656
pull
Entries 92
Mean −90.73
Std Dev 0
pull1D
Entries 92
Mean 0.02745
Std Dev 1.006

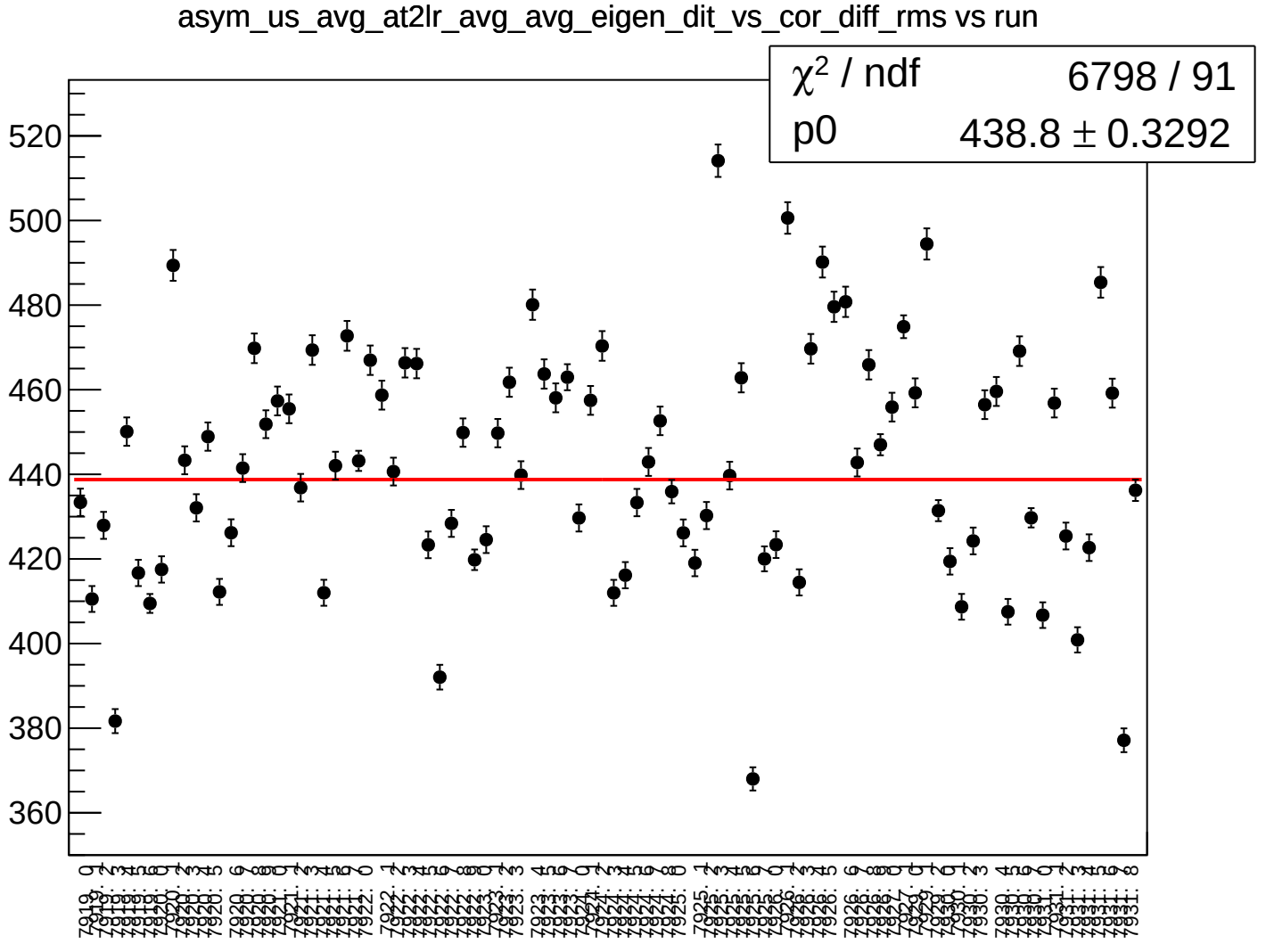

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6797 / 91
p0 438.8 ± 0.3292
520
500
480
460
440
420
400
380
360

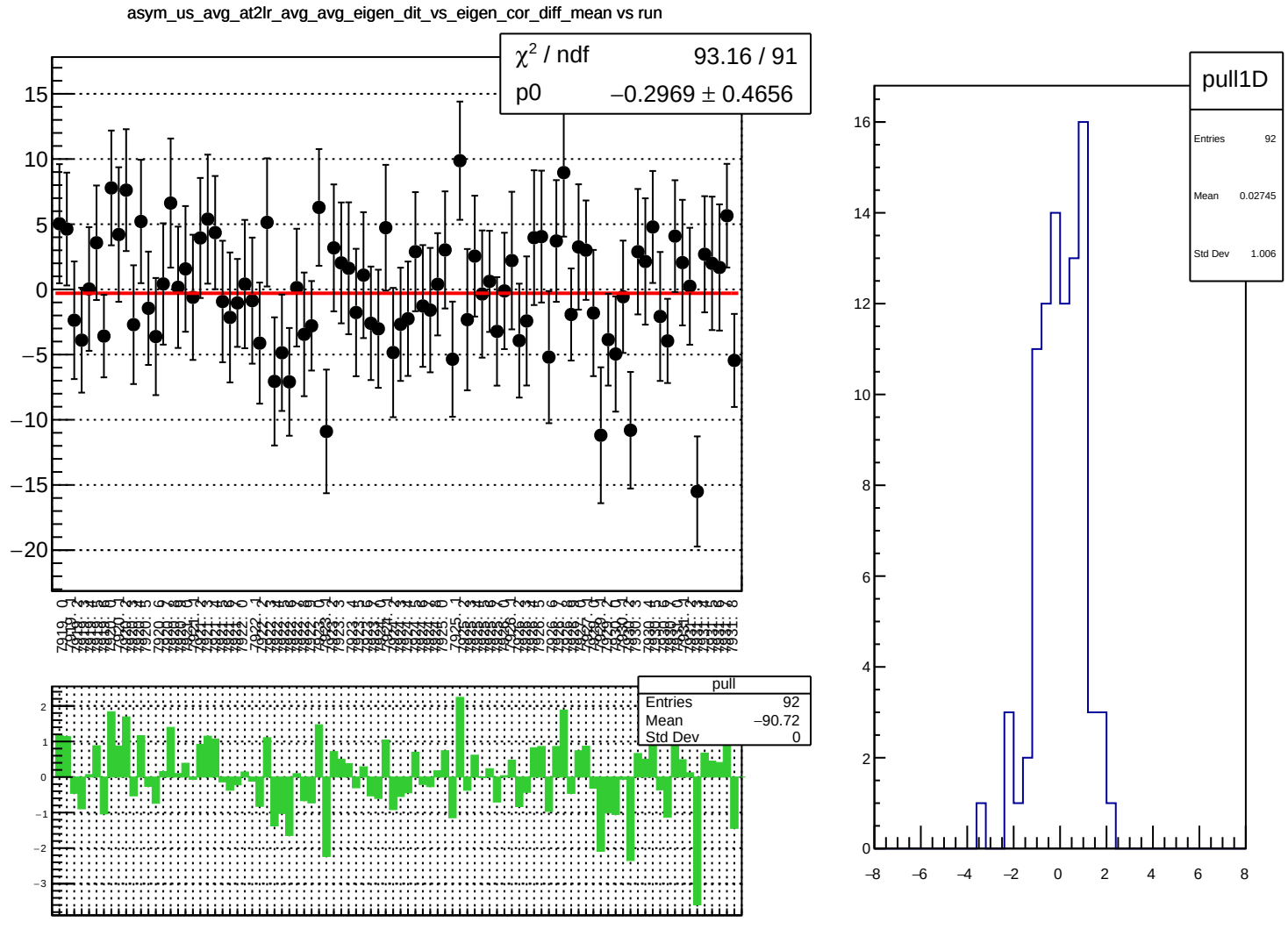

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 84.1 / 91
p0 1.767e−05 ± 2.429e−05
pull
Entries 92
Mean −2009
Std Dev 0

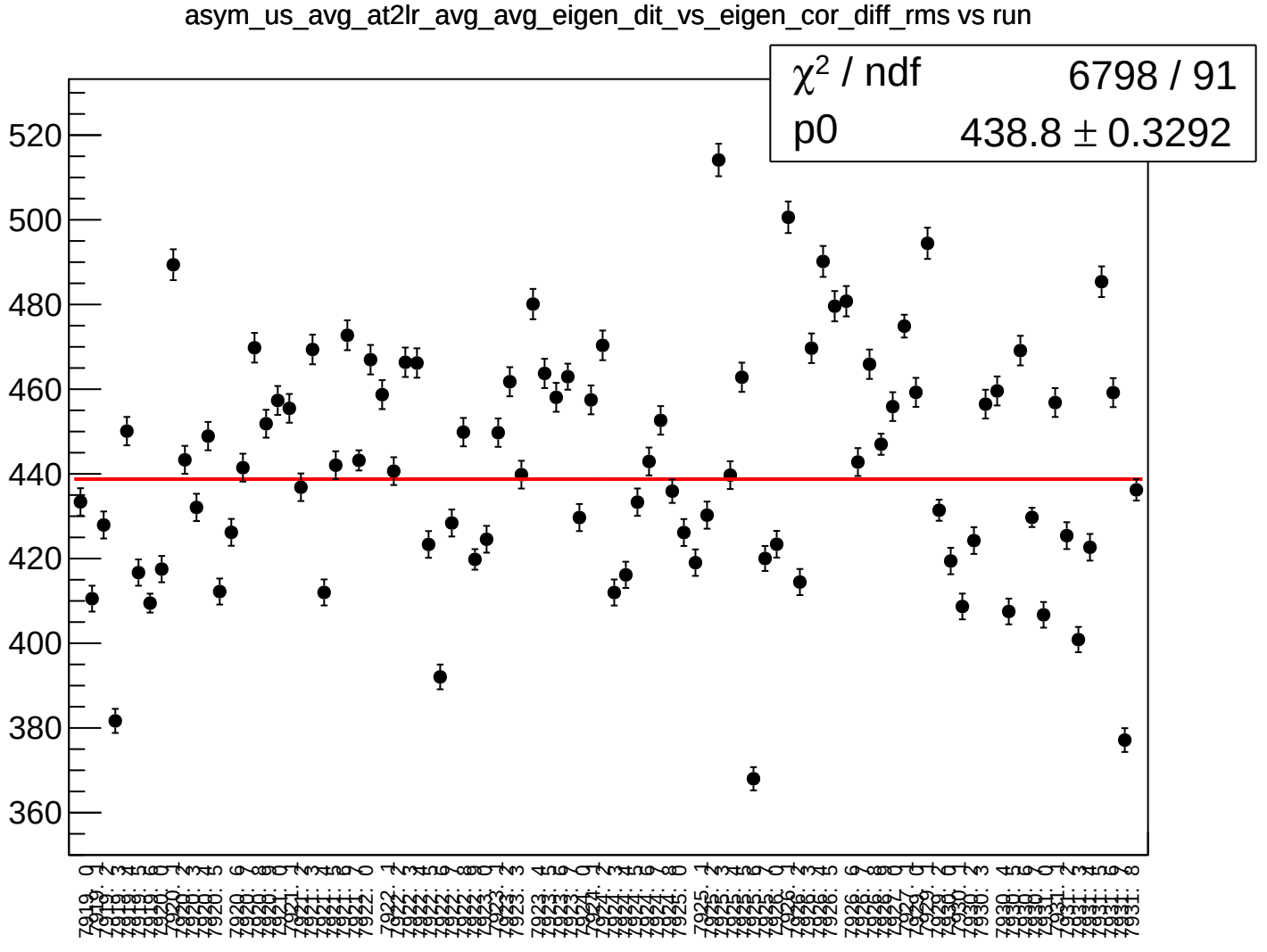

pull1D
Entries 92
Mean −0.001841
Std Dev 0.9561

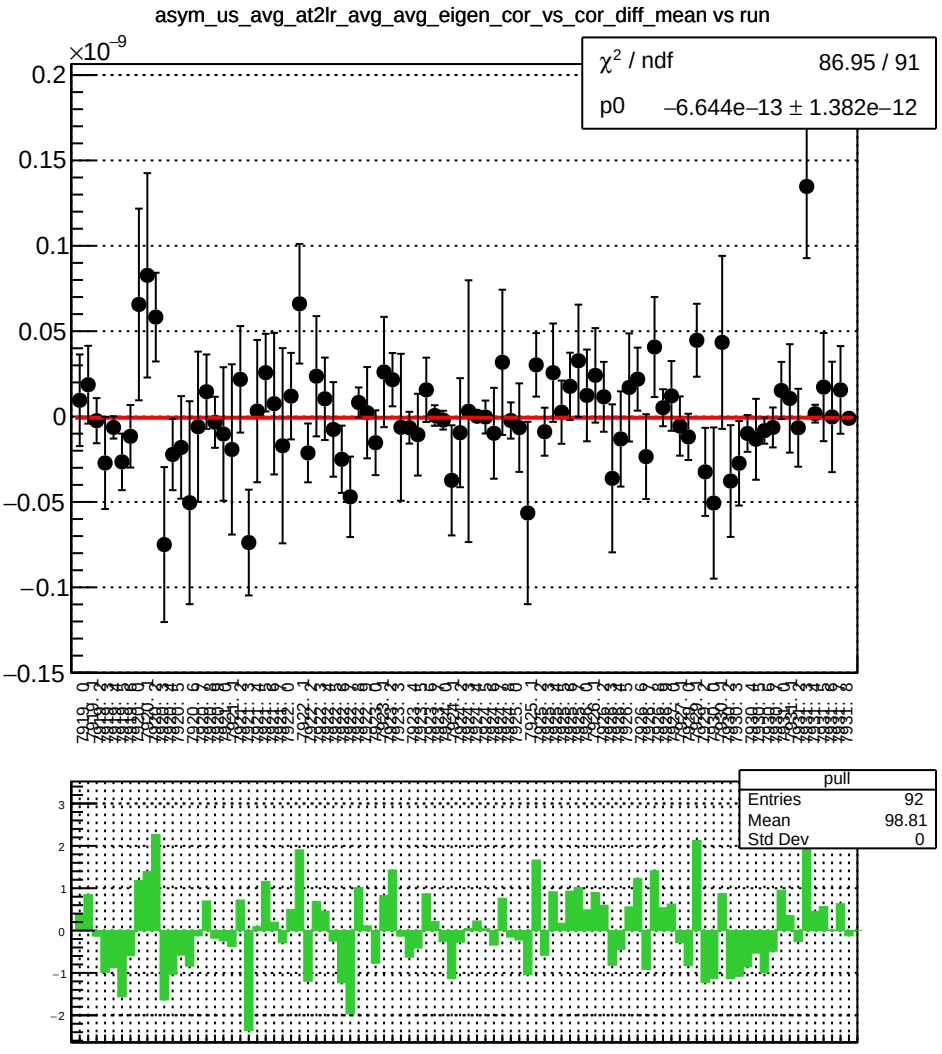

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1558 / 91
p0 0.02293 ± 1.718e−05
0.027
0.026
0.025
0.024
0.023
0.022
0.021

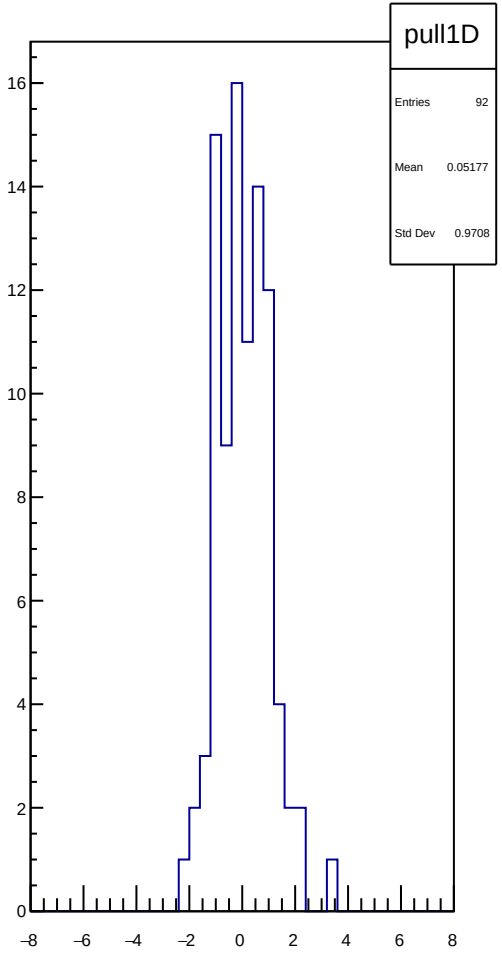

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.16 / 91
p0 −0.2969 ± 0.4656
pull
Entries 92
Mean −90.72
Std Dev 0
pull1D
Entries 92
Mean 0.02745
Std Dev 1.006

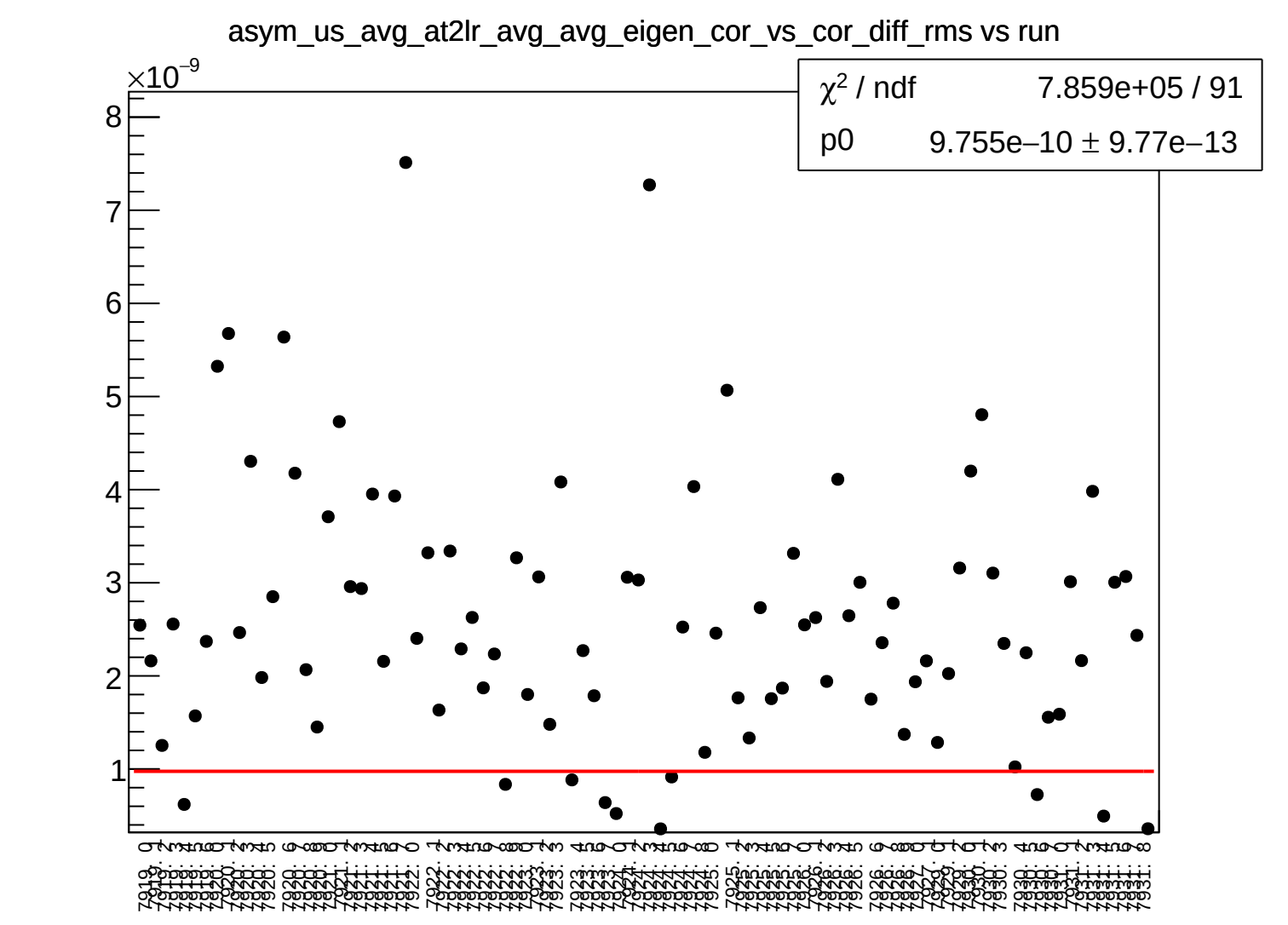

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6798 / 91
p0 438.8 ± 0.3292
520
500
480
460
440
420
400
380
360

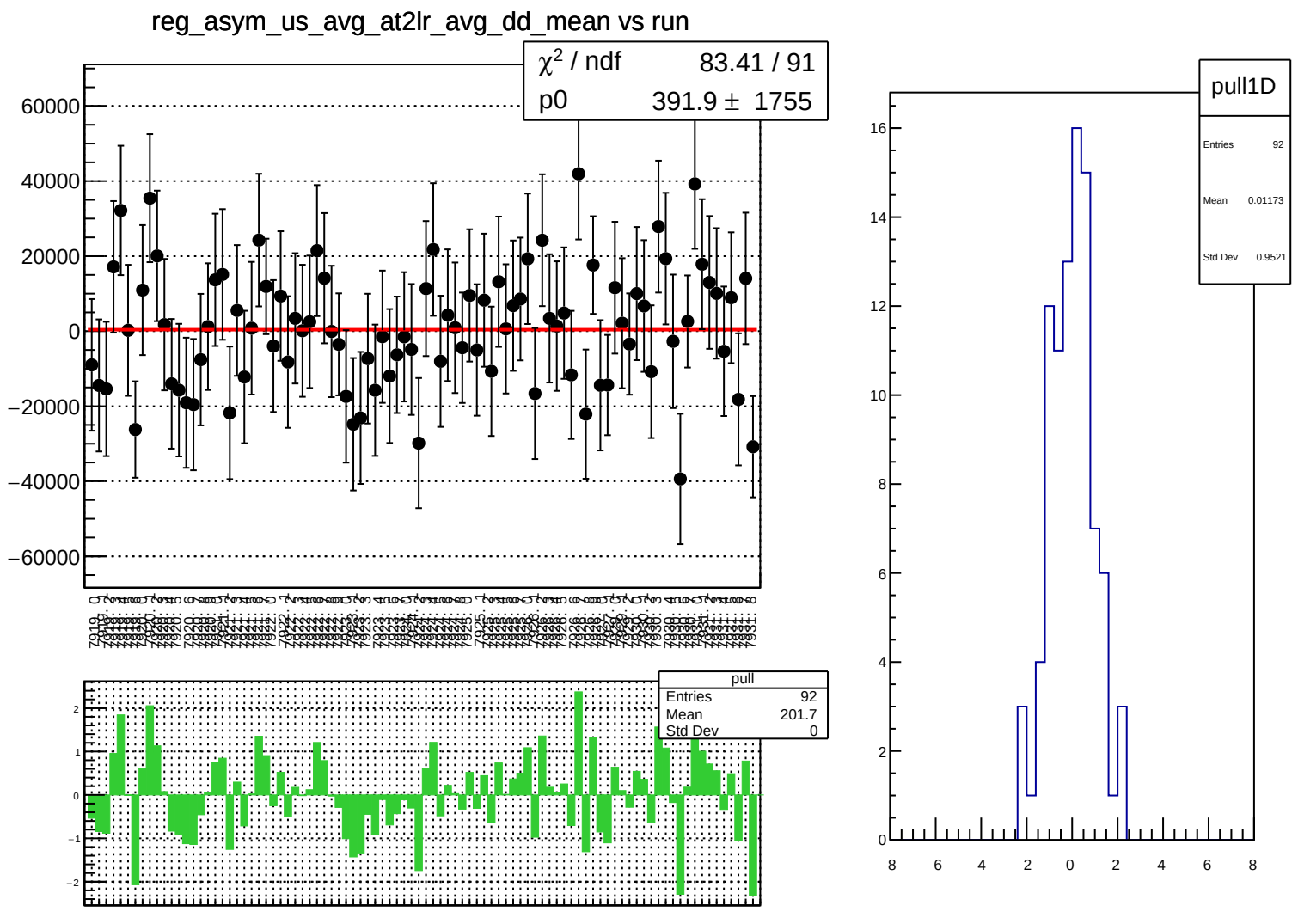

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.16 / 91
p0 −0.2969 ± 0.4656
pull
Entries 92
Mean −90.72
Std Dev 0
pull1D
Entries 92
Mean 0.02745
Std Dev 1.006

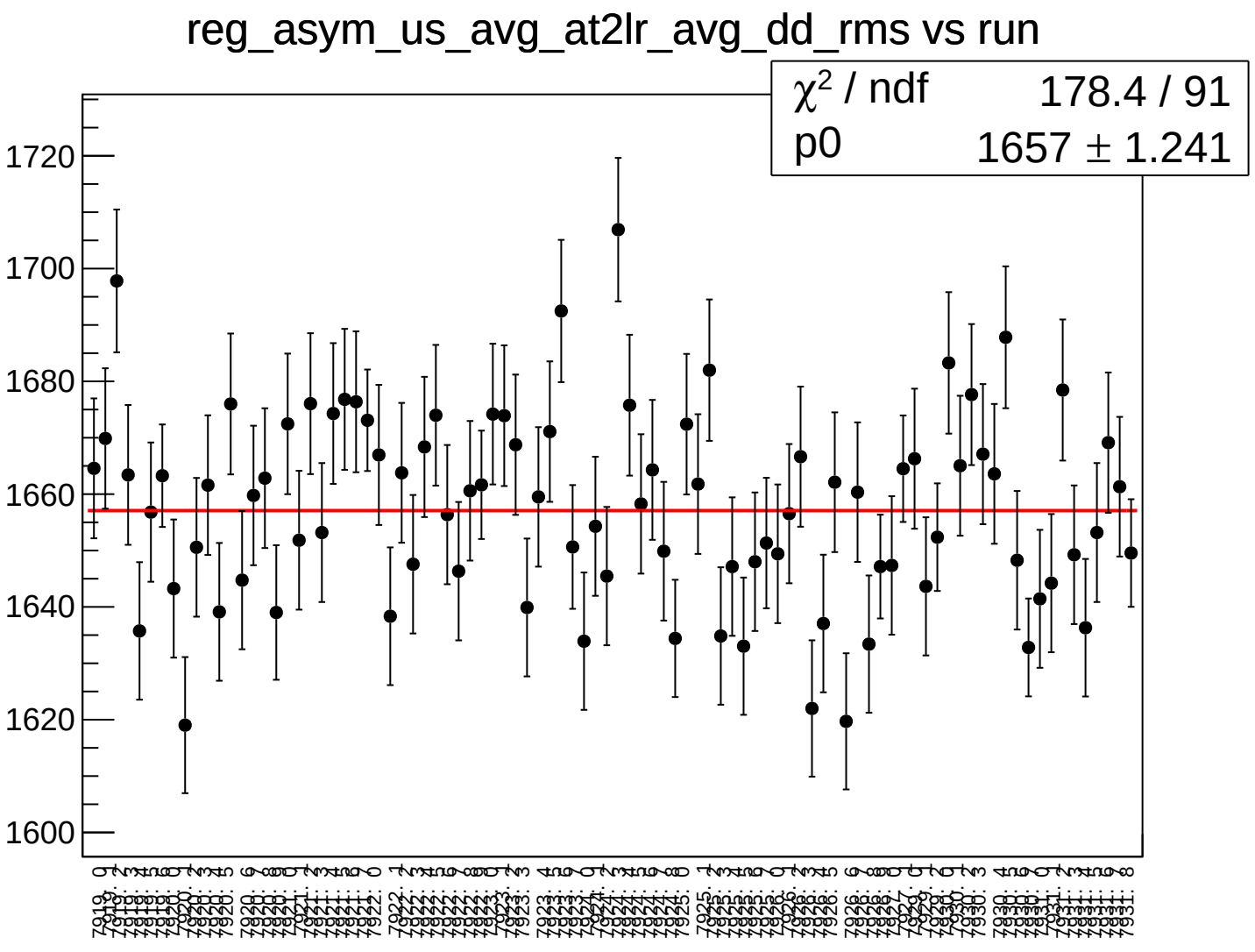

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6798 / 91
p0 438.8 ± 0.3292
520
500
480
460
440
420
400
380
360

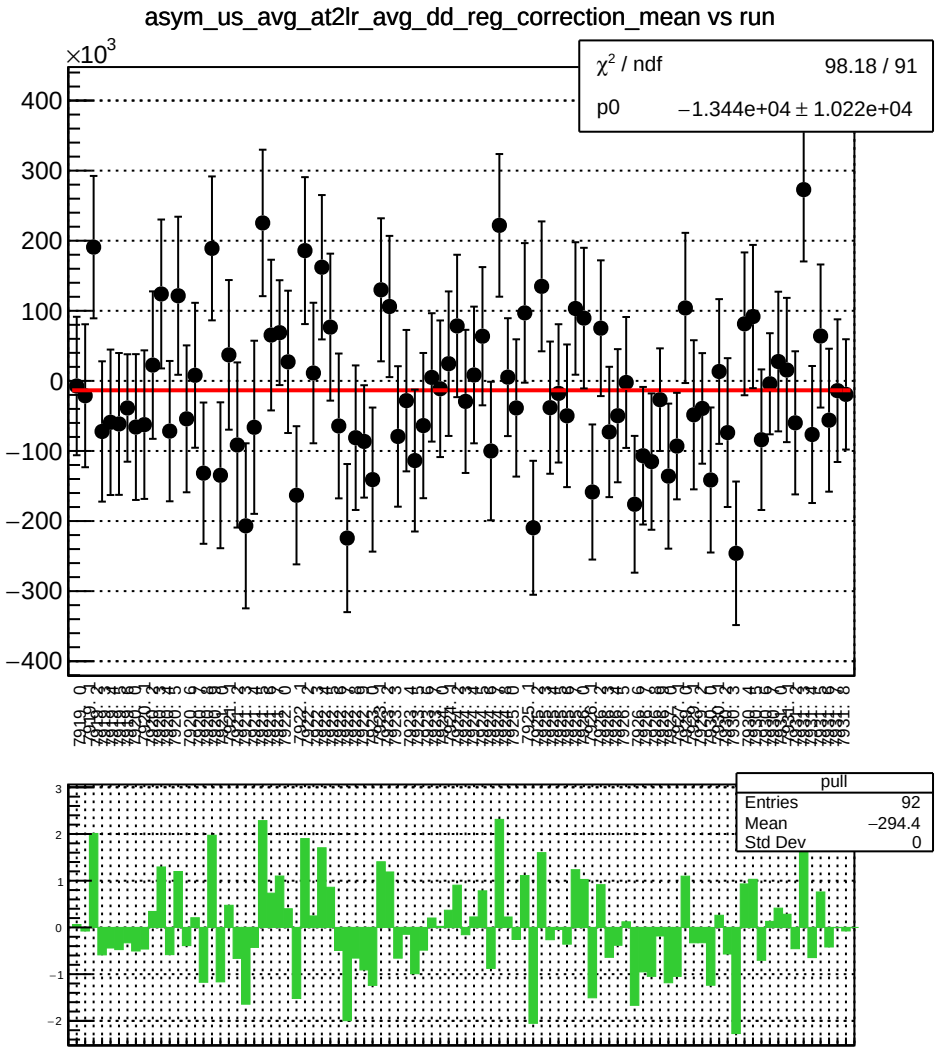

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 86.95 / 91
p0 −6.644e−13 ± 1.382e−12
pull
Entries 92
Mean 98.81
Std Dev 0

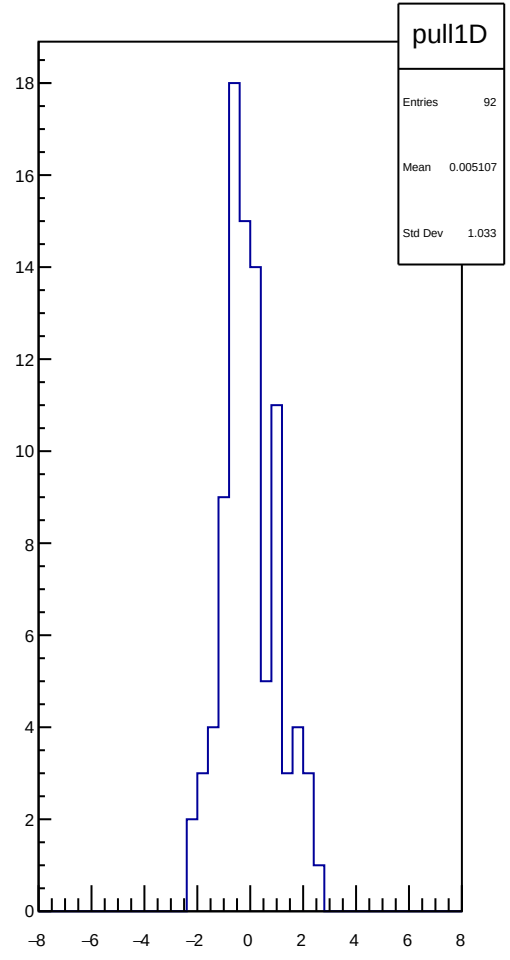

pull1D
Entries 92
Mean 0.05177
Std Dev 0.9708

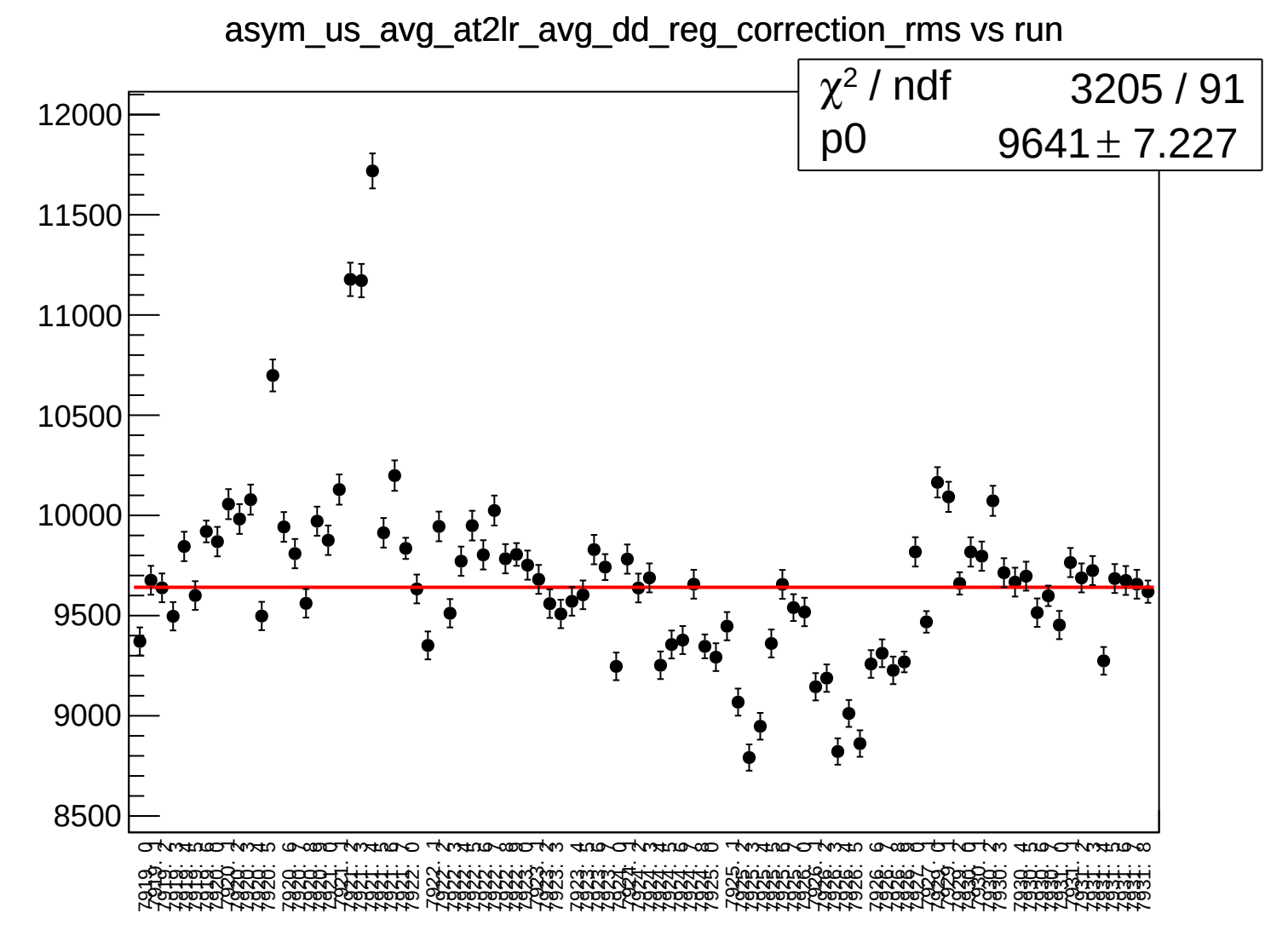

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.859e+05 / 91
p0 9.755e−10 ± 9.77e−13
8
7
6
5
4
3
2
1

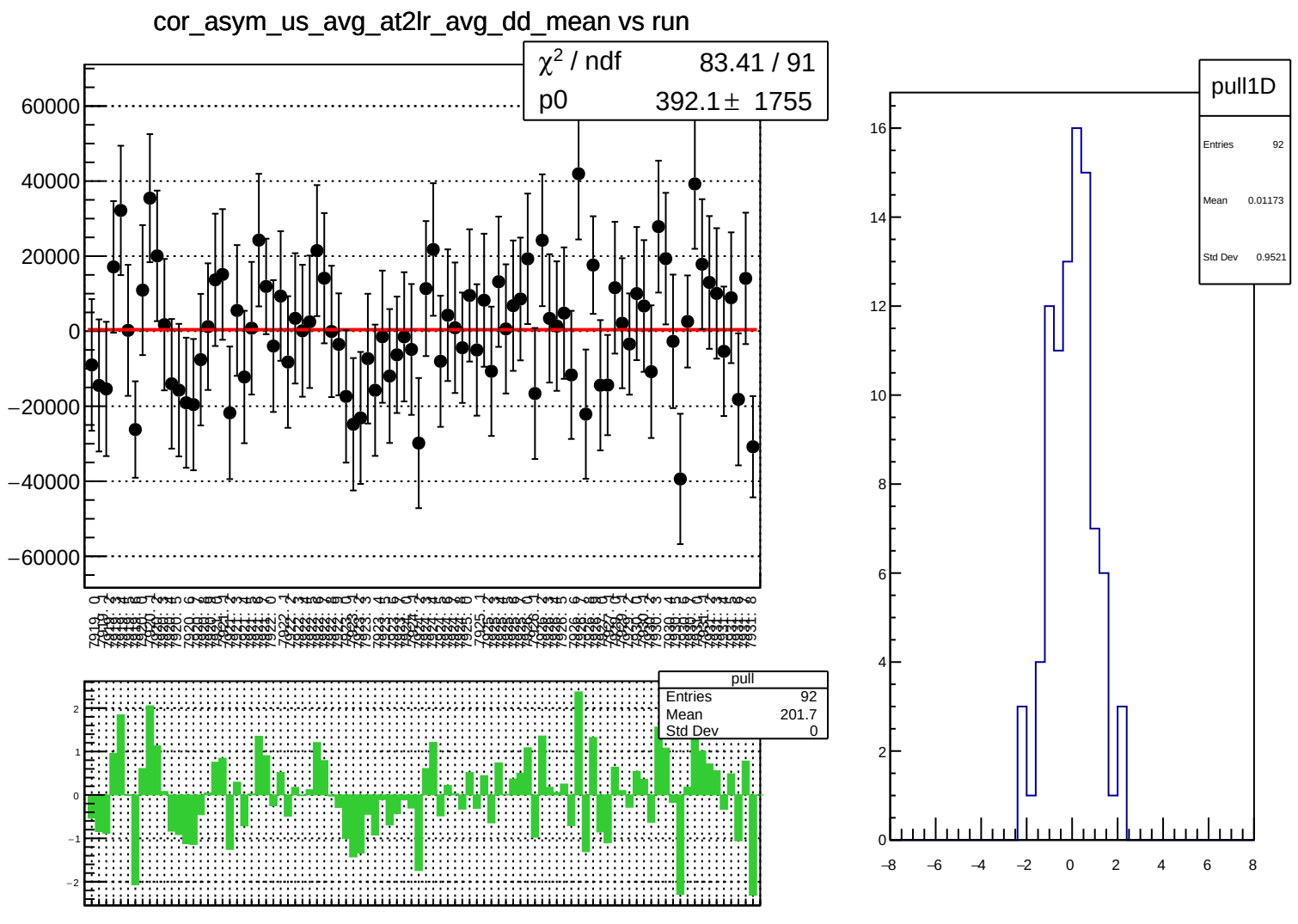

reg_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 83.41 / 91
p0 391.9 ± 1755
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 201.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.01173
Std Dev 0.9521
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

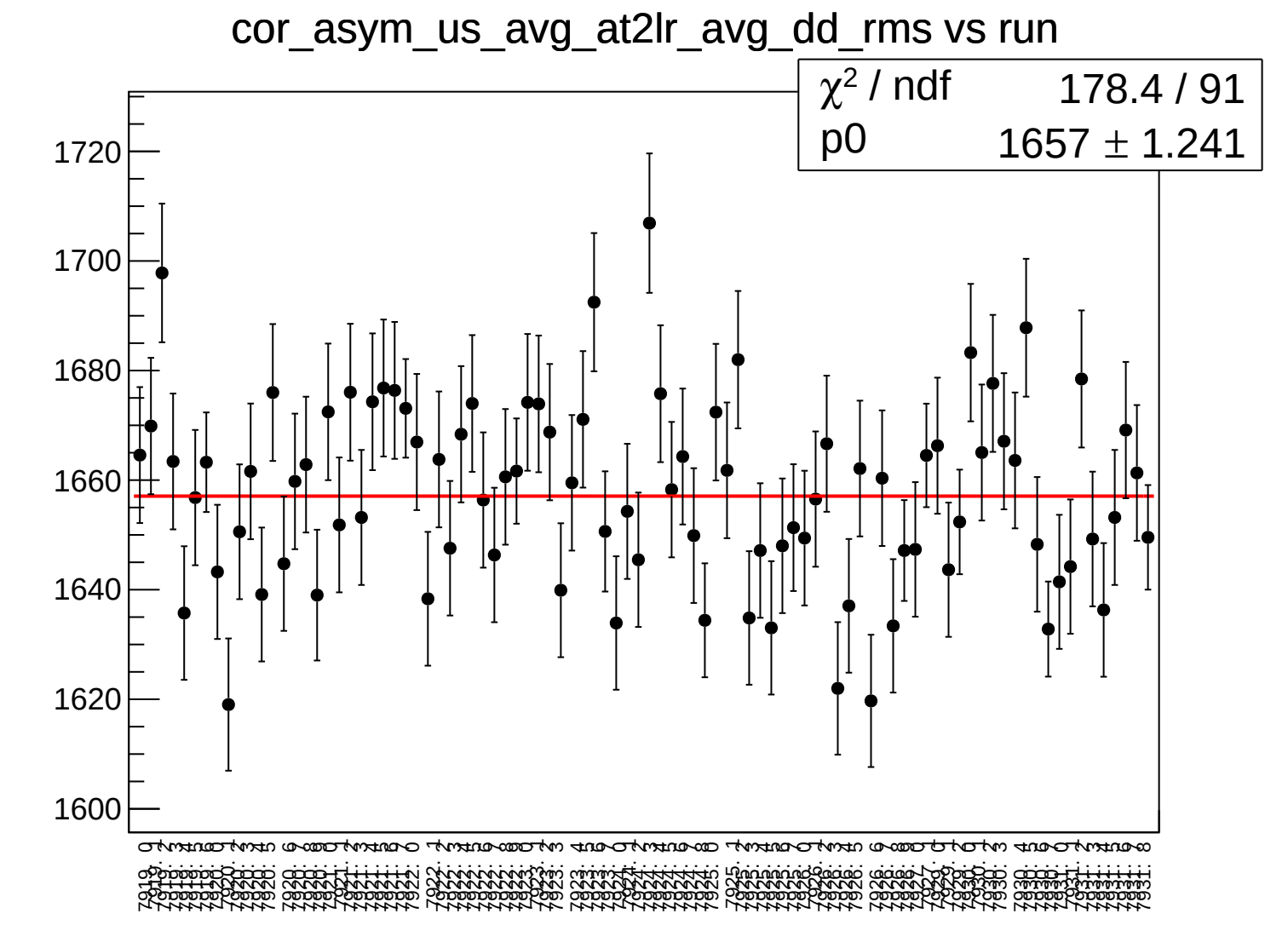

reg_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 178.4 / 91
p0 1657 ± 1.241
1720
1700
1680
1660
1640
1620
1600

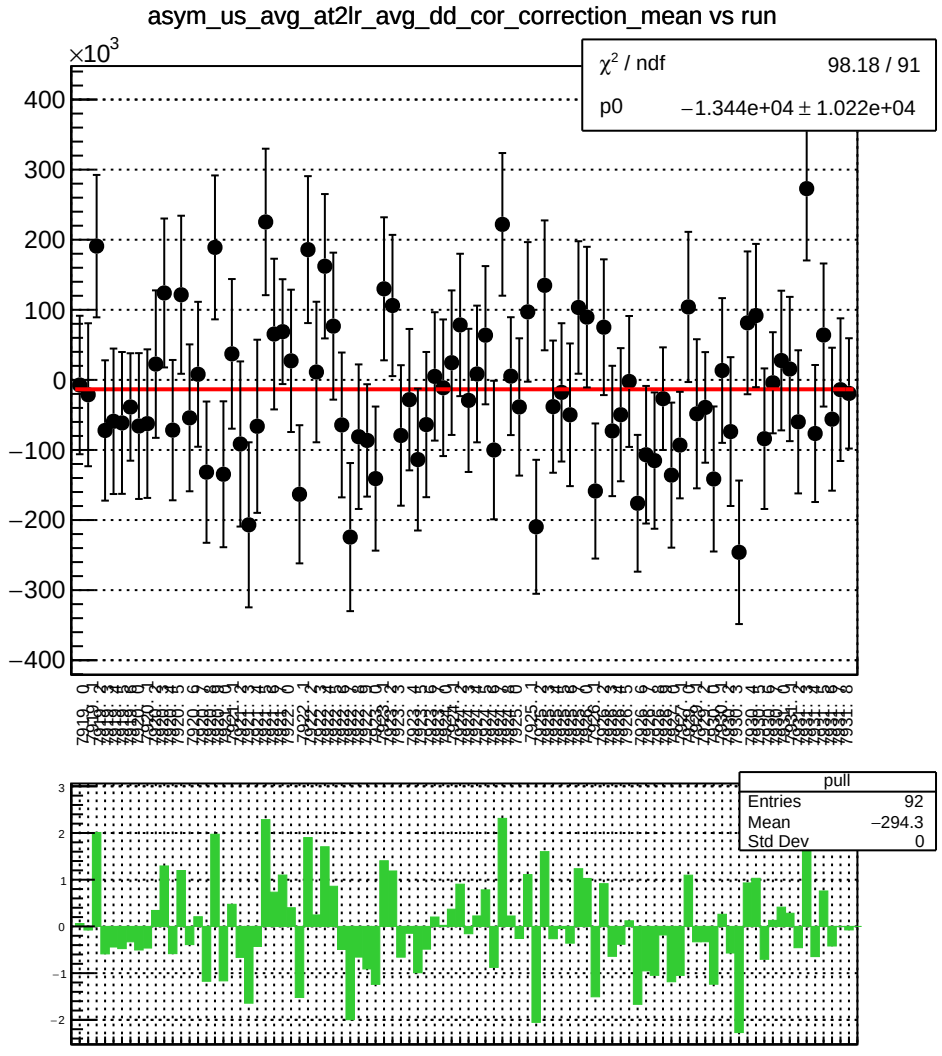

asym_us_avg_at2lr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 98.18 / 91
p0 −1.344e+04 ± 1.022e+04
pull
Entries 92
Mean −294.4
Std Dev 0

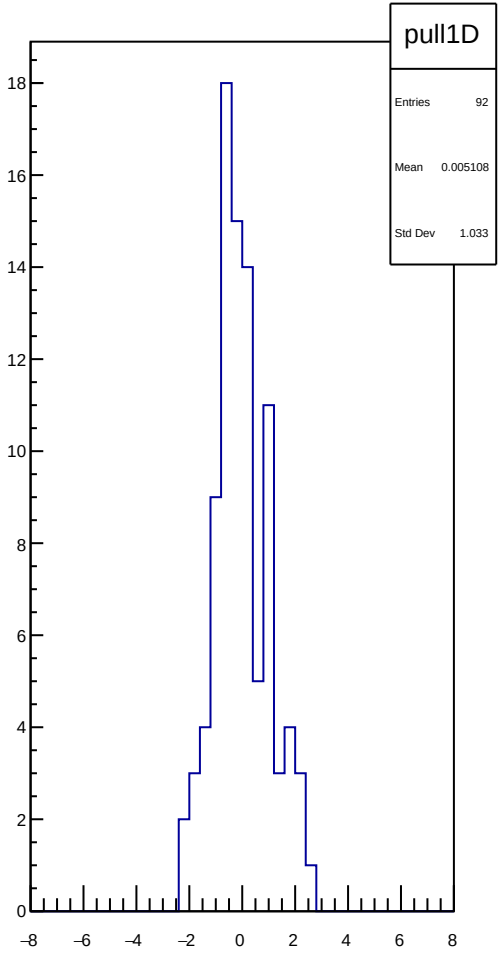

pull1D
Entries 92
Mean 0.005107
Std Dev 1.033

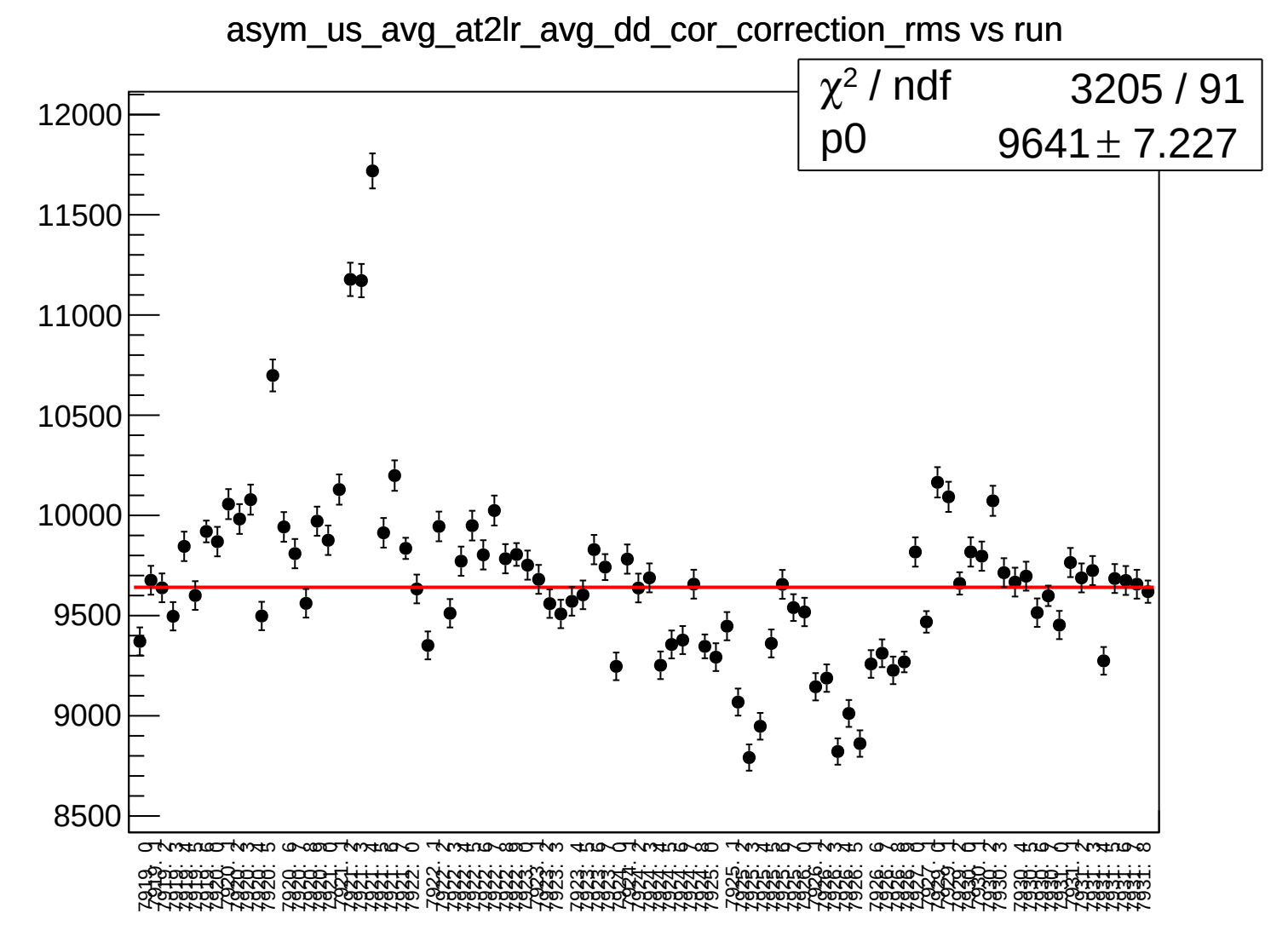

asym_us_avg_at2lr_avg_dd_reg_correction_rms vs run
χ² / ndf 3205 / 91
p0 9641 ± 7.227
12000
11500
11000
10500
10000
9500
9000
8500

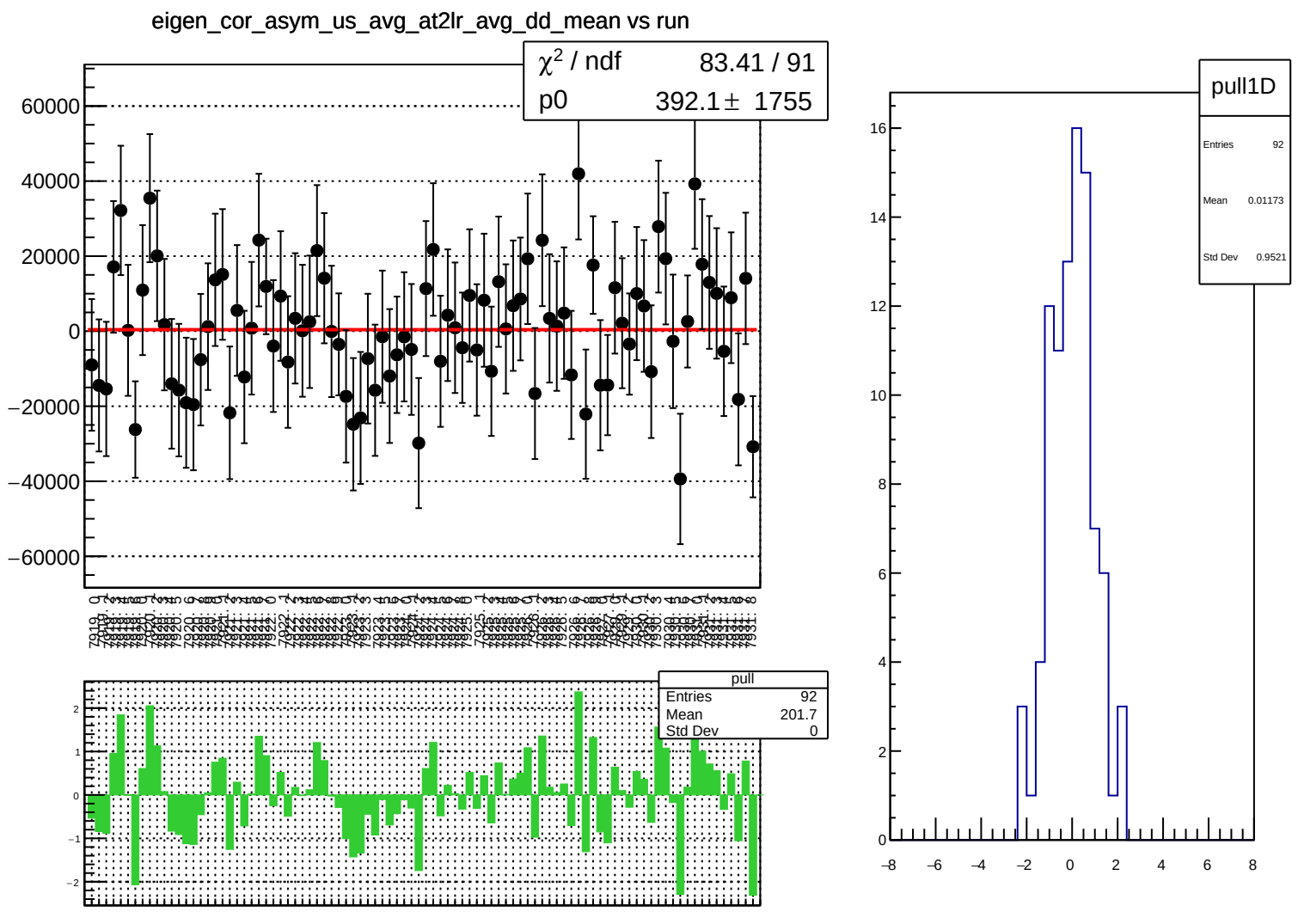

cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 83.41 / 91
p0 392.1± 1755
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 201.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.01173
Std Dev 0.9521
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

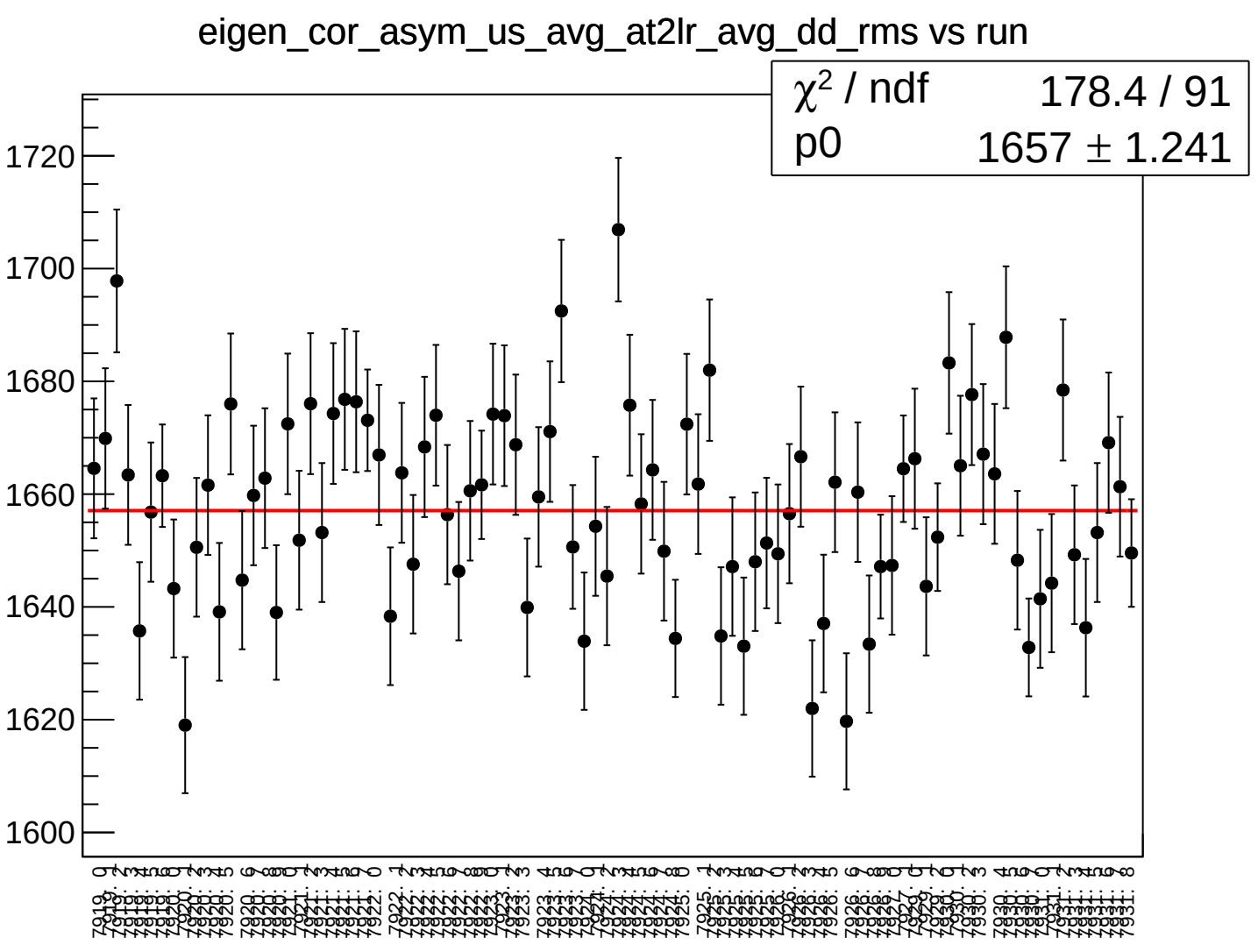

cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 178.4 / 91
p0 1657 ± 1.241
1720
1700
1680
1660
1640
1620
1600

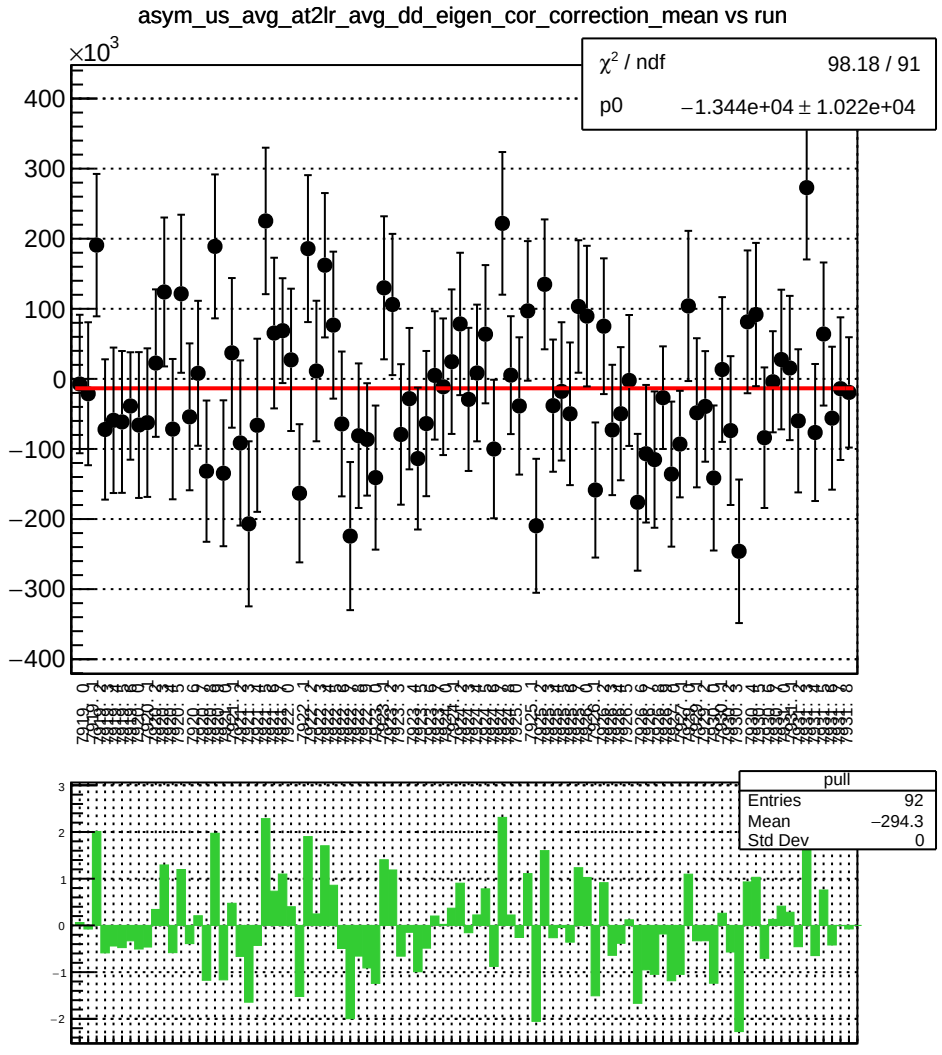

asym_us_avg_at2lr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 98.18 / 91
p0 −1.344e+04 ± 1.022e+04
pull
Entries 92
Mean −294.3
Std Dev 0

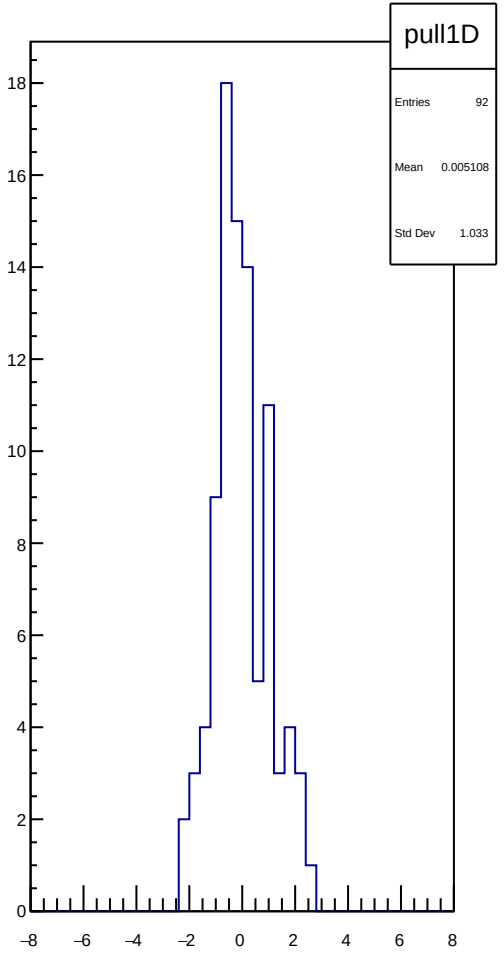

pull1D
Entries 92
Mean 0.005108
Std Dev 1.033

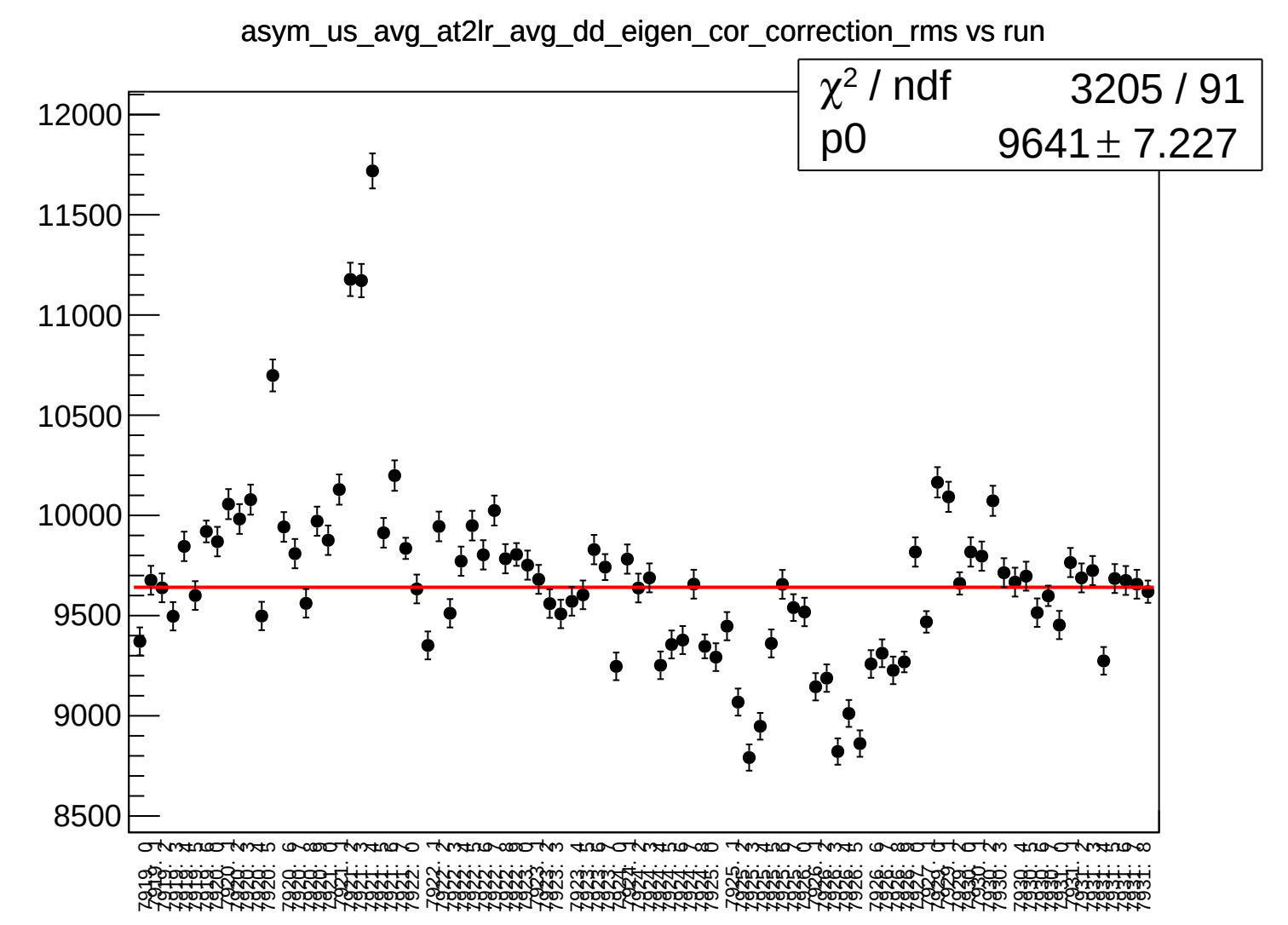

asym_us_avg_at2lr_avg_dd_cor_correction_rms vs run
χ² / ndf 3205 / 91
p0 9641 ± 7.227
12000
11500
11000
10500
10000
9500
9000
8500

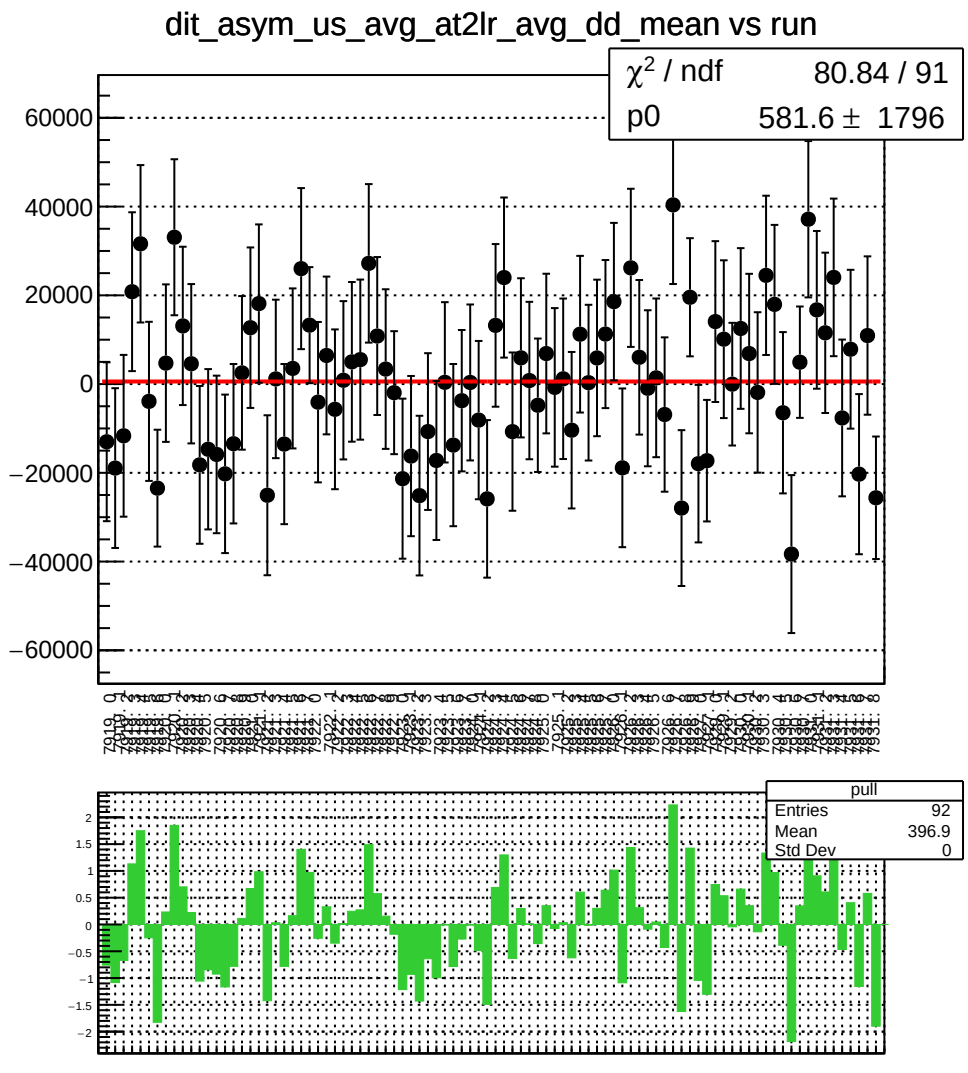

eigen_cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 83.41 / 91
p0 392.1± 1755
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 201.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.01173
Std Dev 0.9521
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

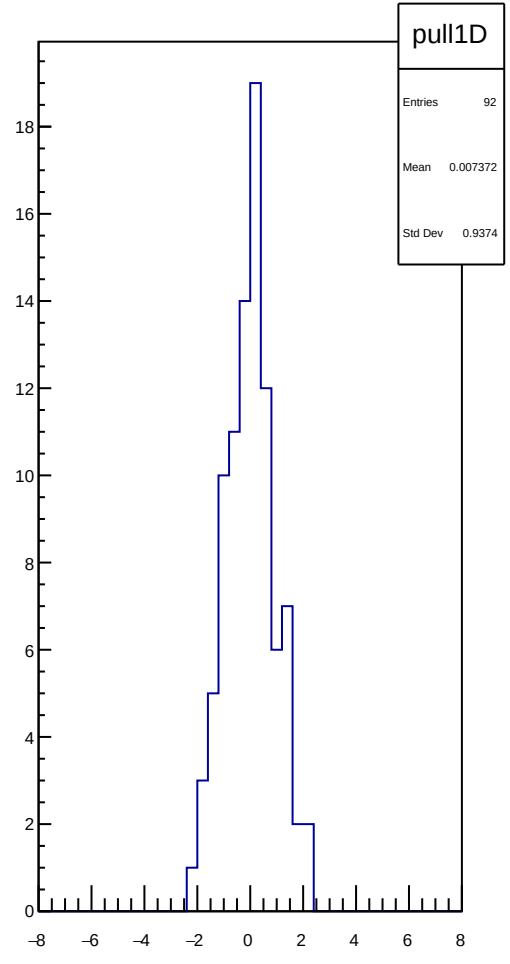

eigen_cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 178.4 / 91
p0 1657 ± 1.241
1720
1700
1680
1660
1640
1620
1600

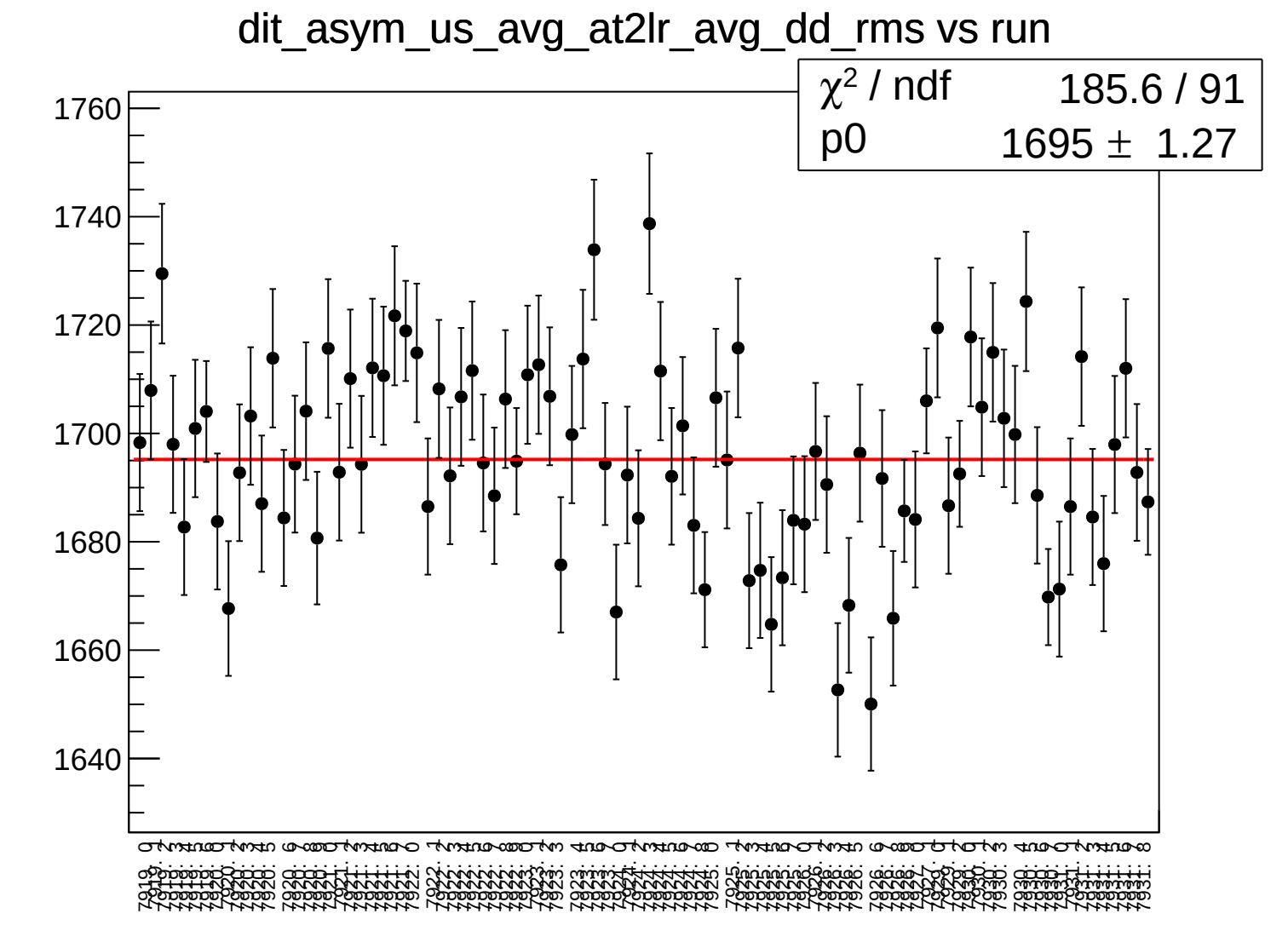

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 98.18 / 91
p0 −1.344e+04 ± 1.022e+04
pull
Entries 92
Mean −294.3
Std Dev 0

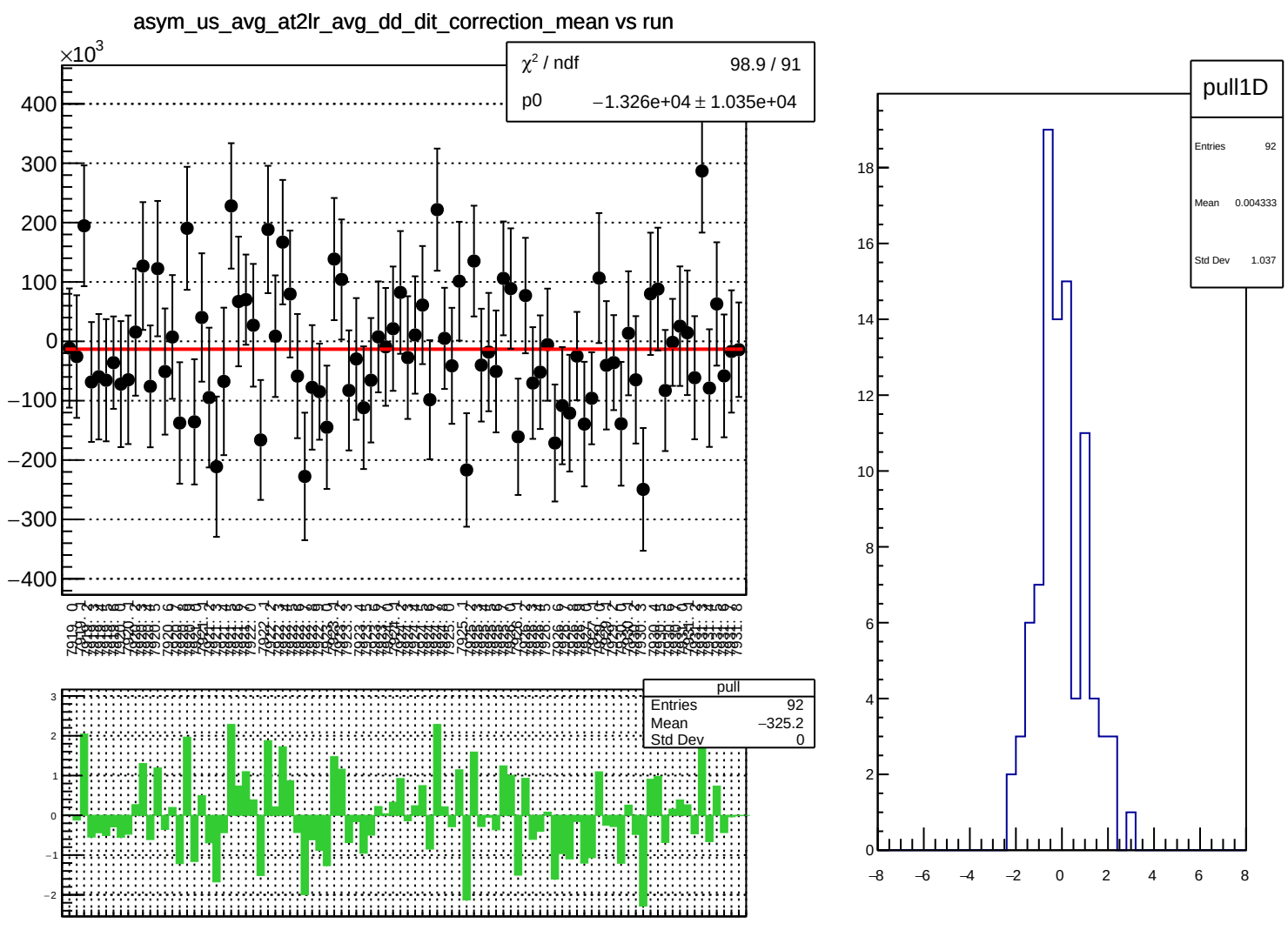

pull1D
Entries 92
Mean 0.005108
Std Dev 1.033

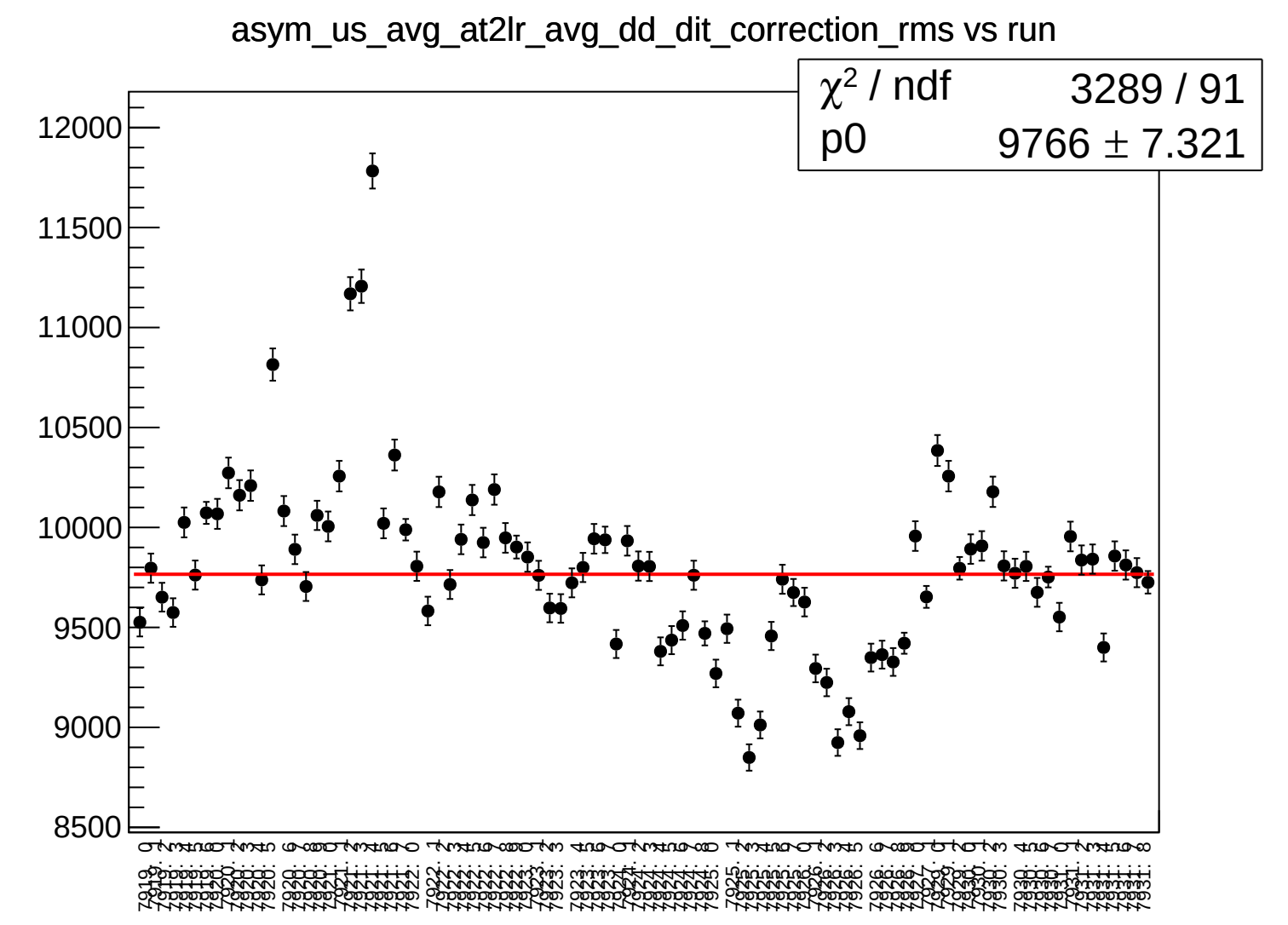

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 3205 / 91
p0 9641 ± 7.227
12000
11500
11000
10500
10000
9500
9000
8500

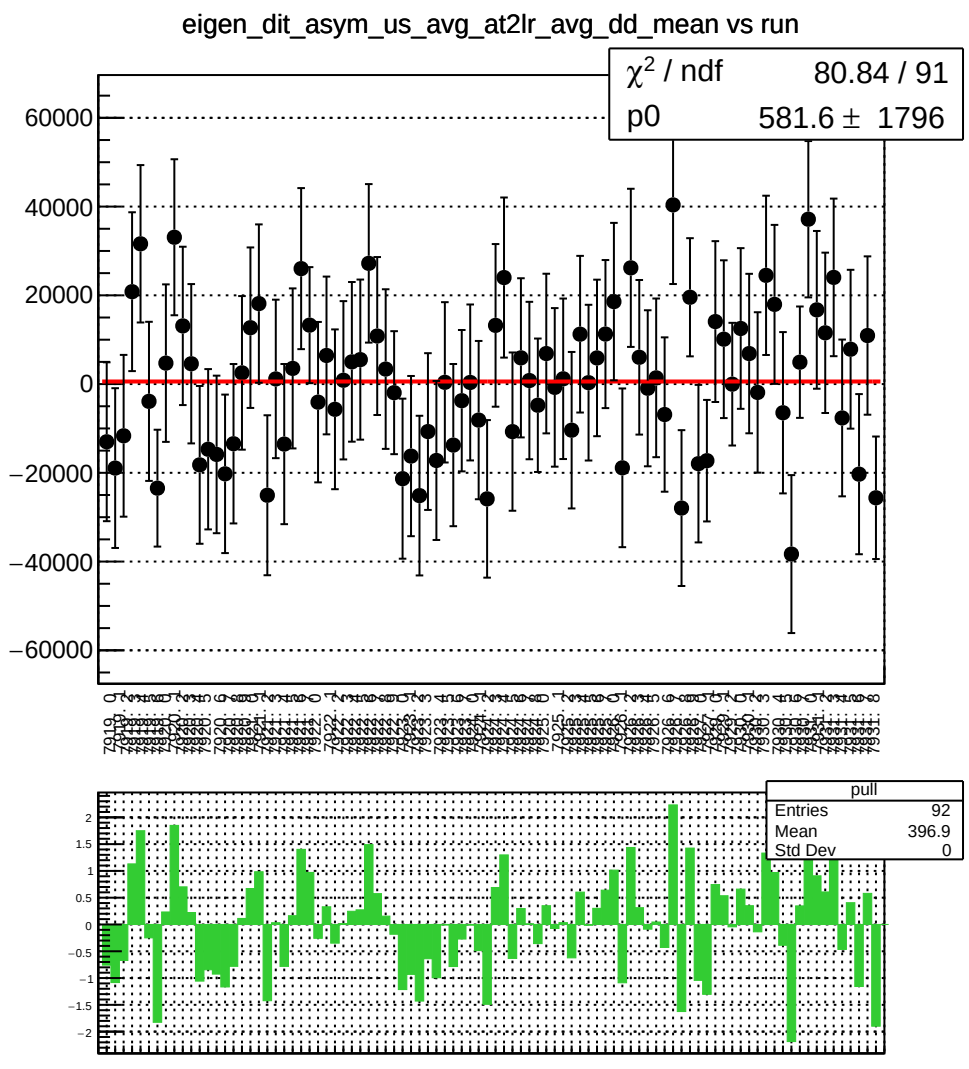

dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 80.84 / 91
p0 581.6 ± 1796
pull
Entries 92
Mean 396.9
Std Dev 0

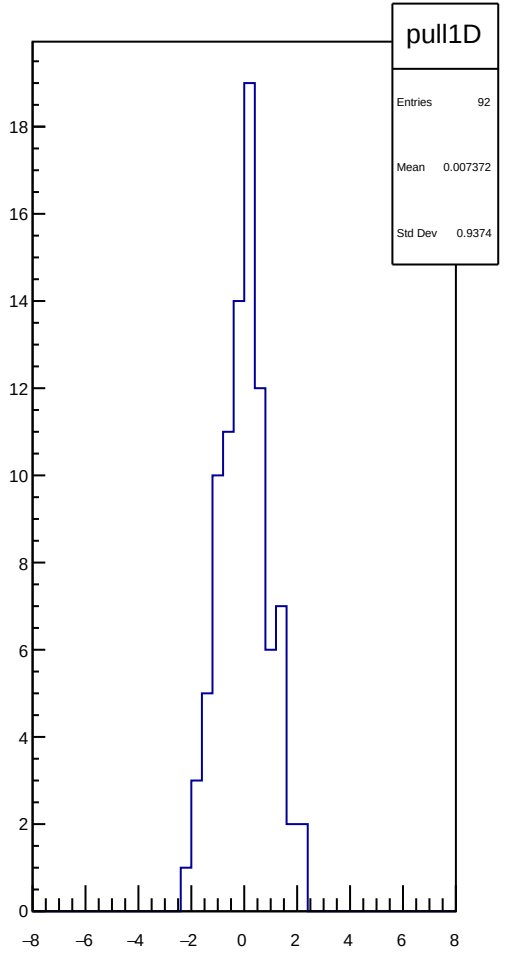

pull1D
Entries 92
Mean 0.007372
Std Dev 0.9374

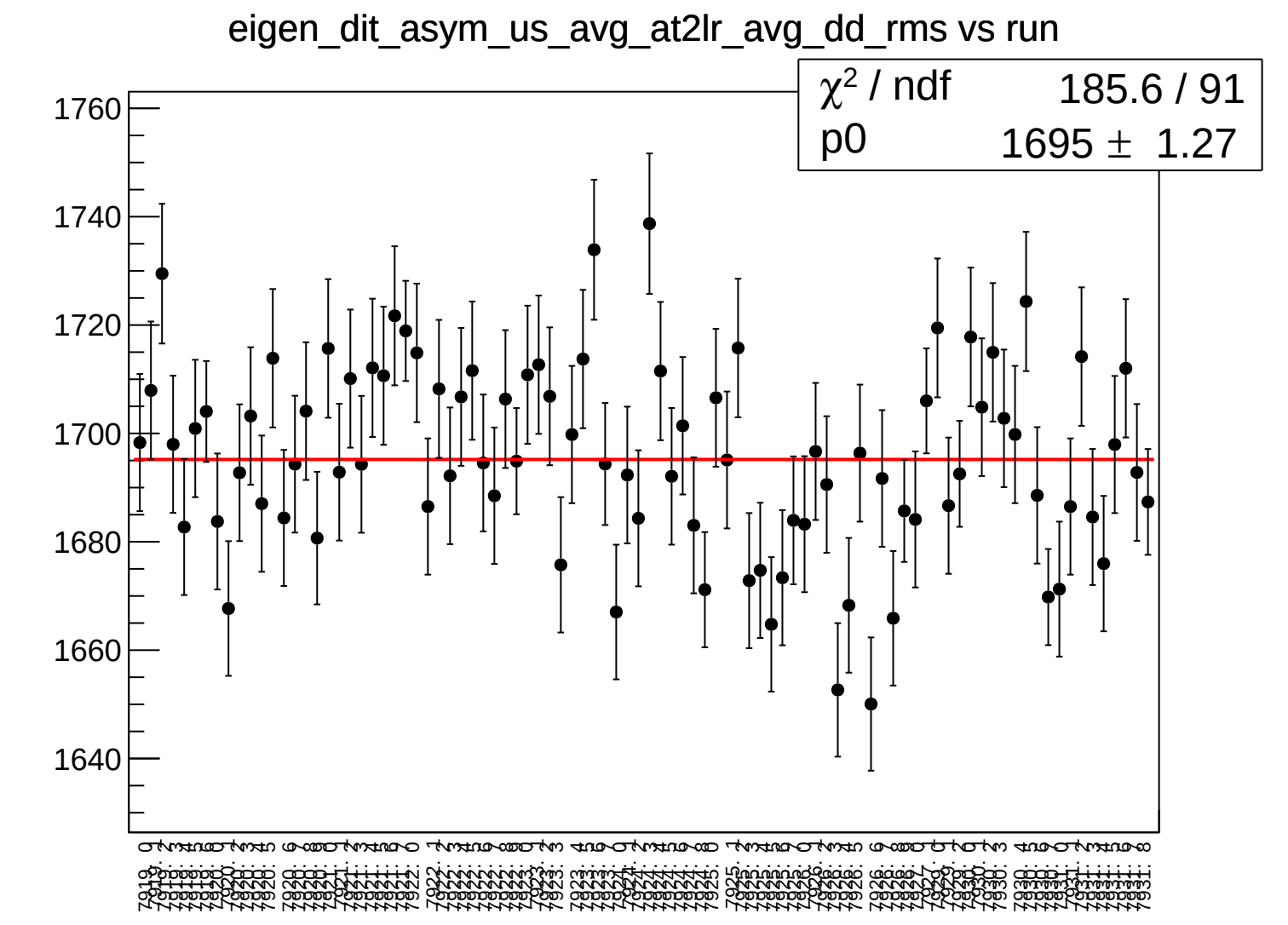

dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 185.6 / 91
p0 1695 ± 1.27
1760
1740
1720
1700
1680
1660
1640

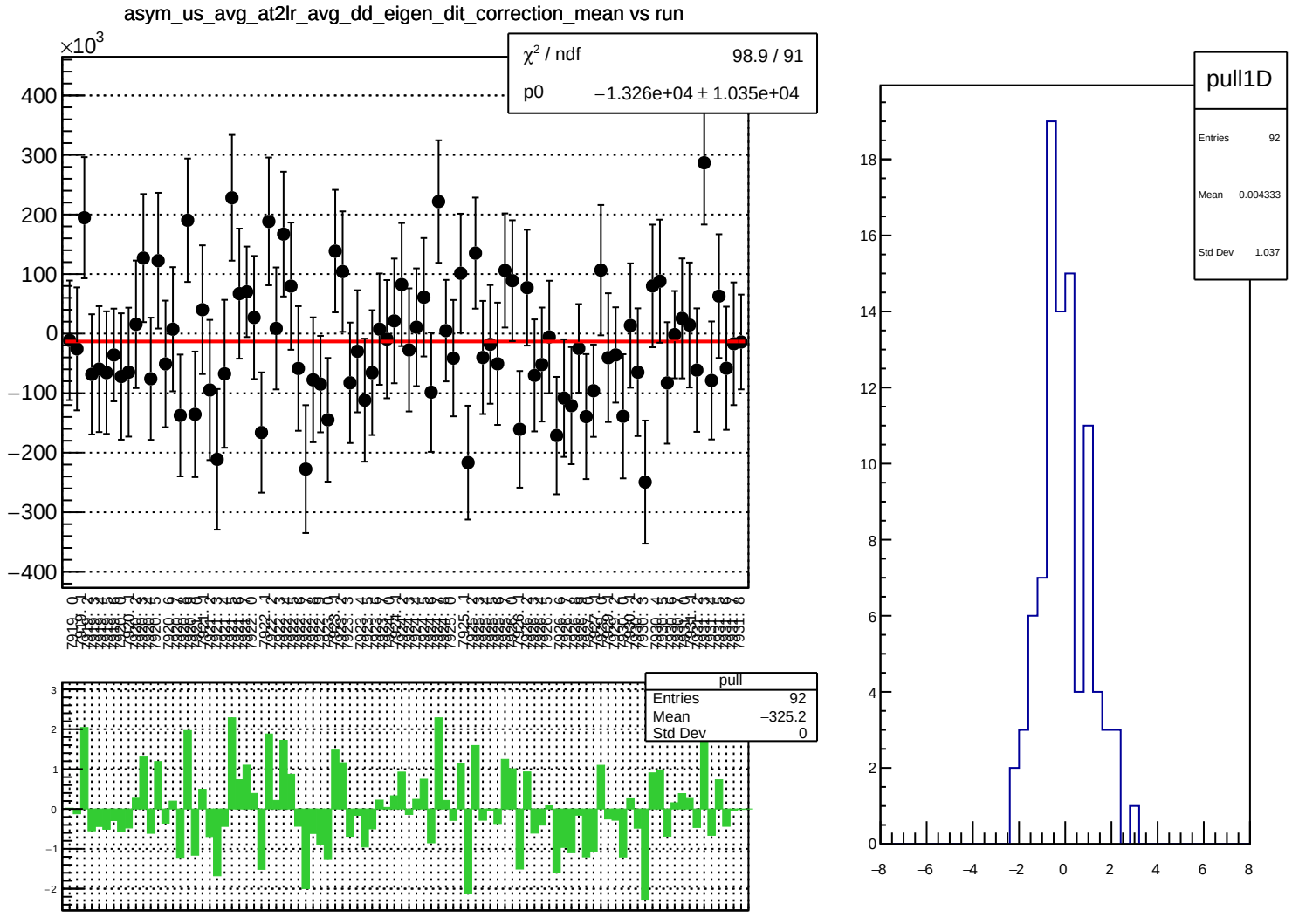

asym_us_avg_at2lr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 98.9 / 91
p0 −1.326e+04 ± 1.035e+04
pull
Entries 92
Mean −325.2
Std Dev 0
pull1D
Entries 92
Mean 0.004333
Std Dev 1.037

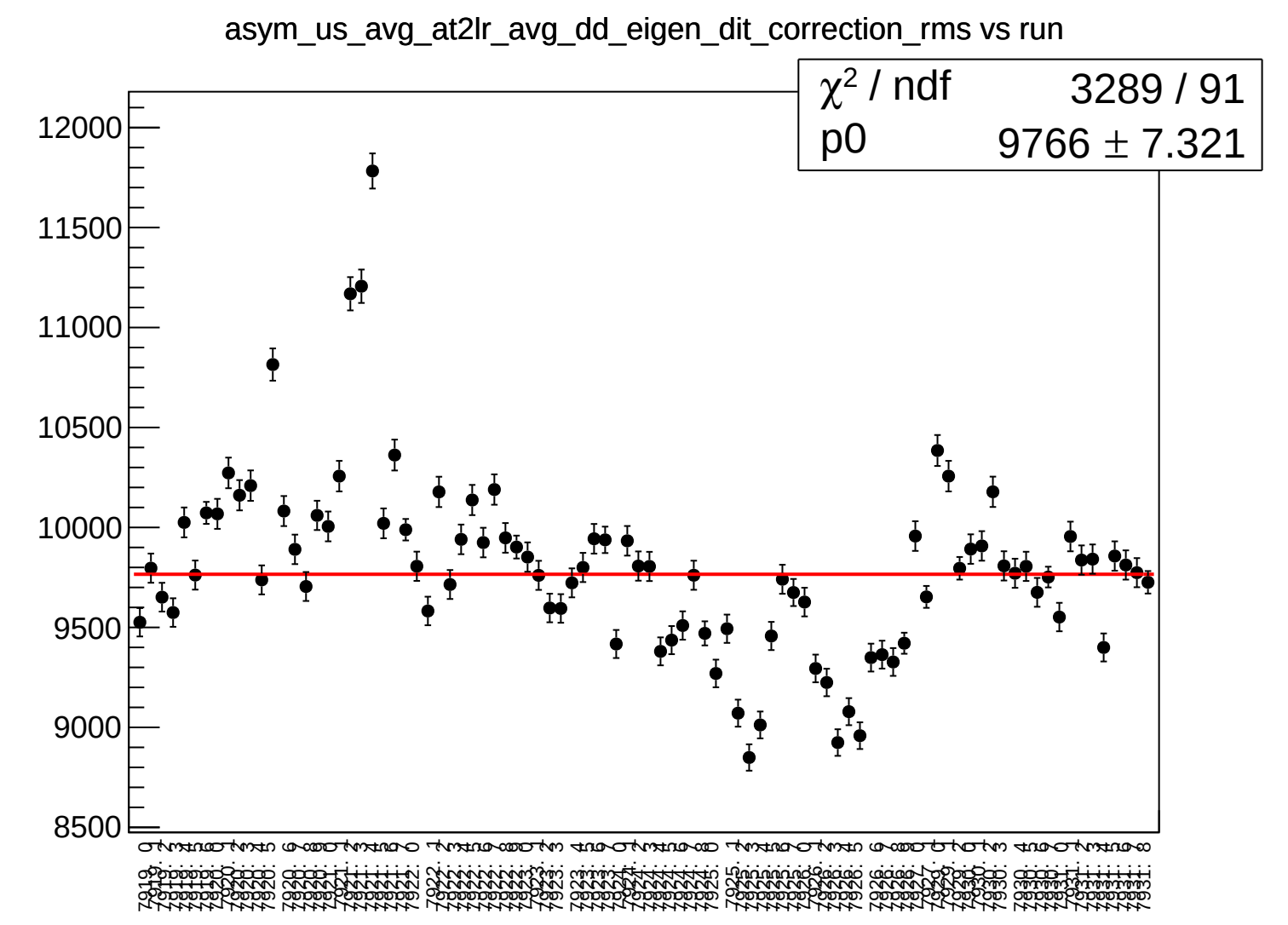

asym_us_avg_at2lr_avg_dd_dit_correction_rms vs run
χ² / ndf 3289 / 91
p0 9766 ± 7.321
12000
11500
11000
10500
10000
9500
9000
8500

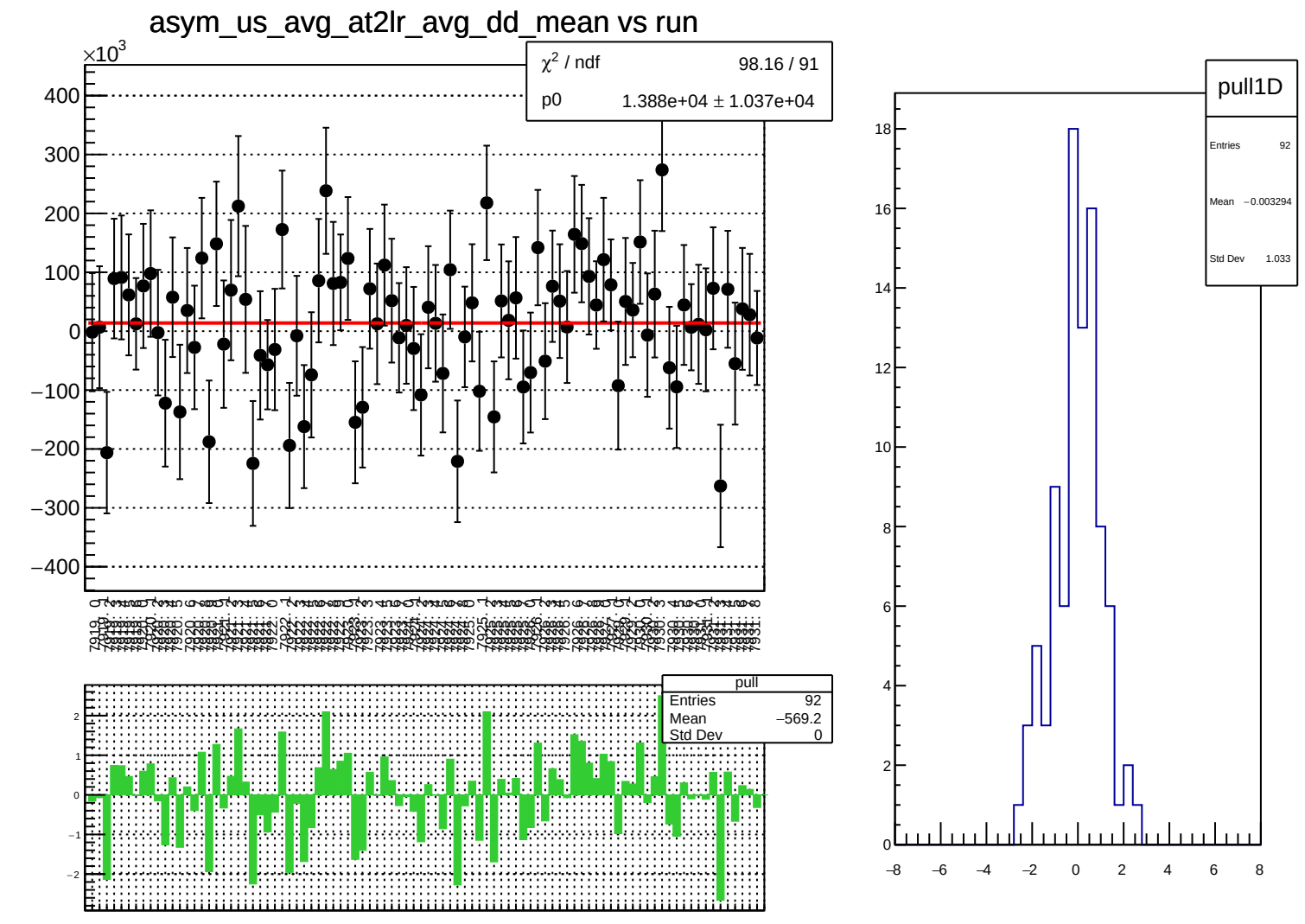

eigen_dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 80.84 / 91
p0 581.6 ± 1796
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 396.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

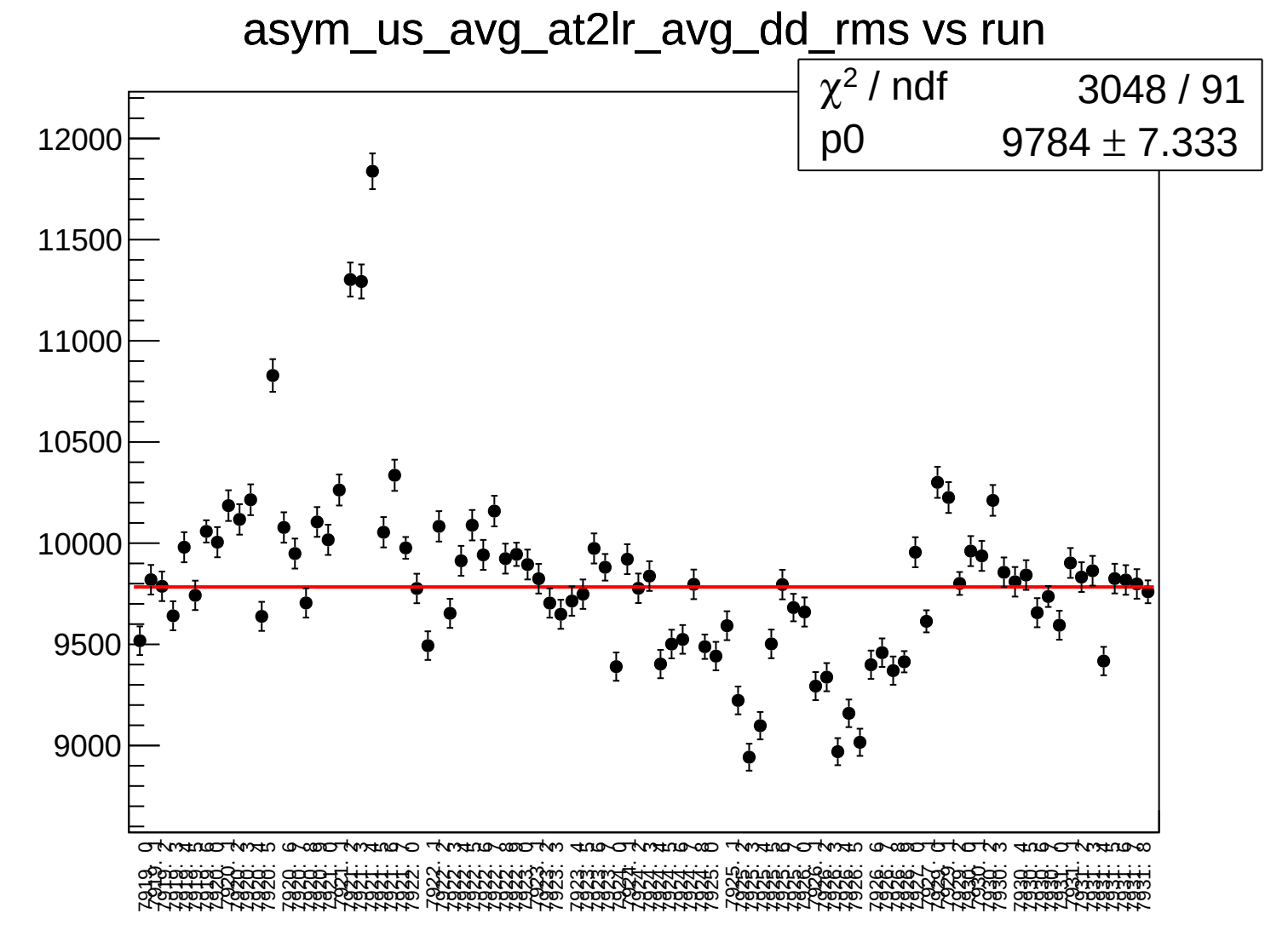

pull1D
Entries 92
Mean 0.007372
Std Dev 0.9374
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

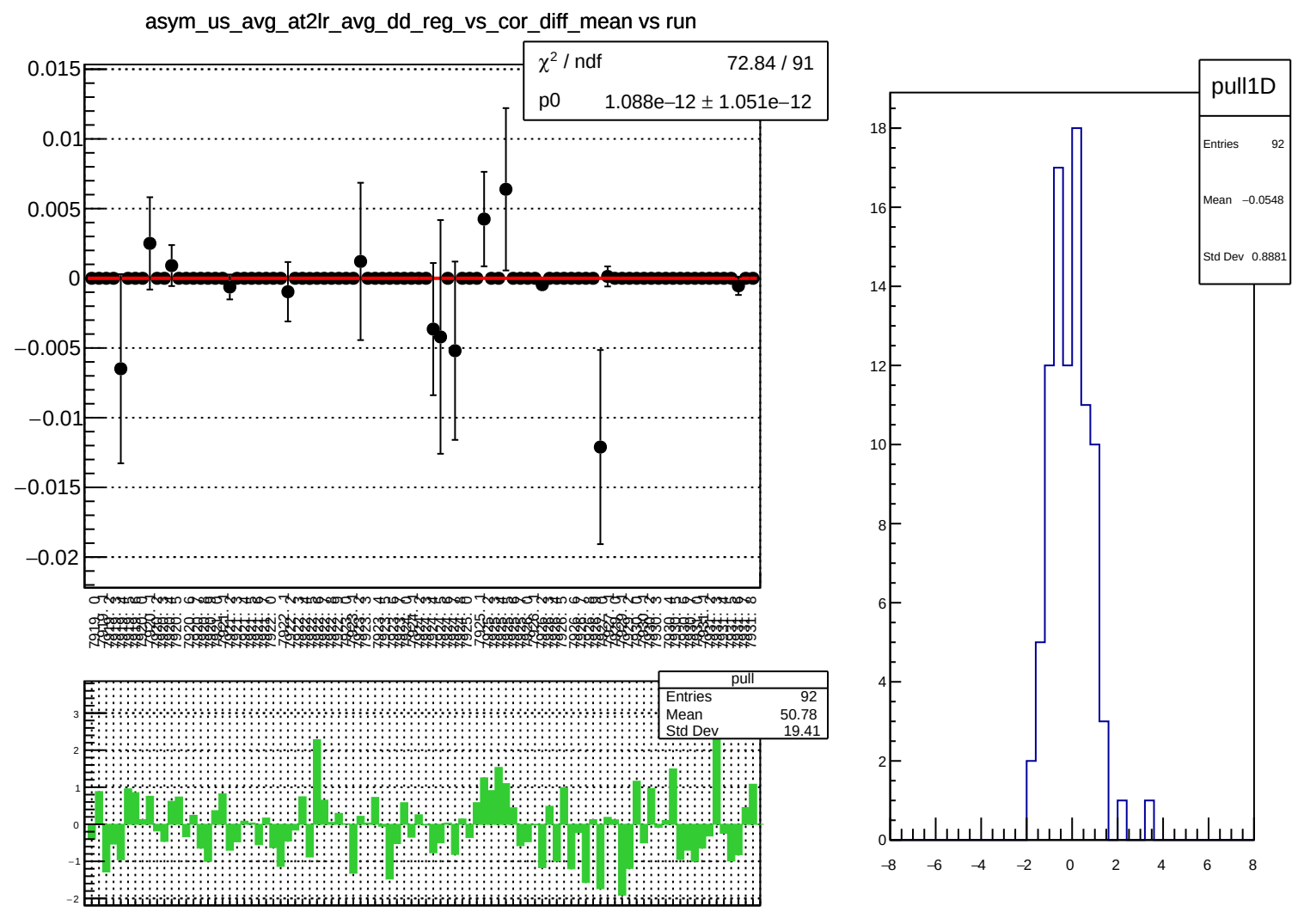

eigen_dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 185.6 / 91
p0 1695 ± 1.27
1760
1740
1720
1700
1680
1660
1640

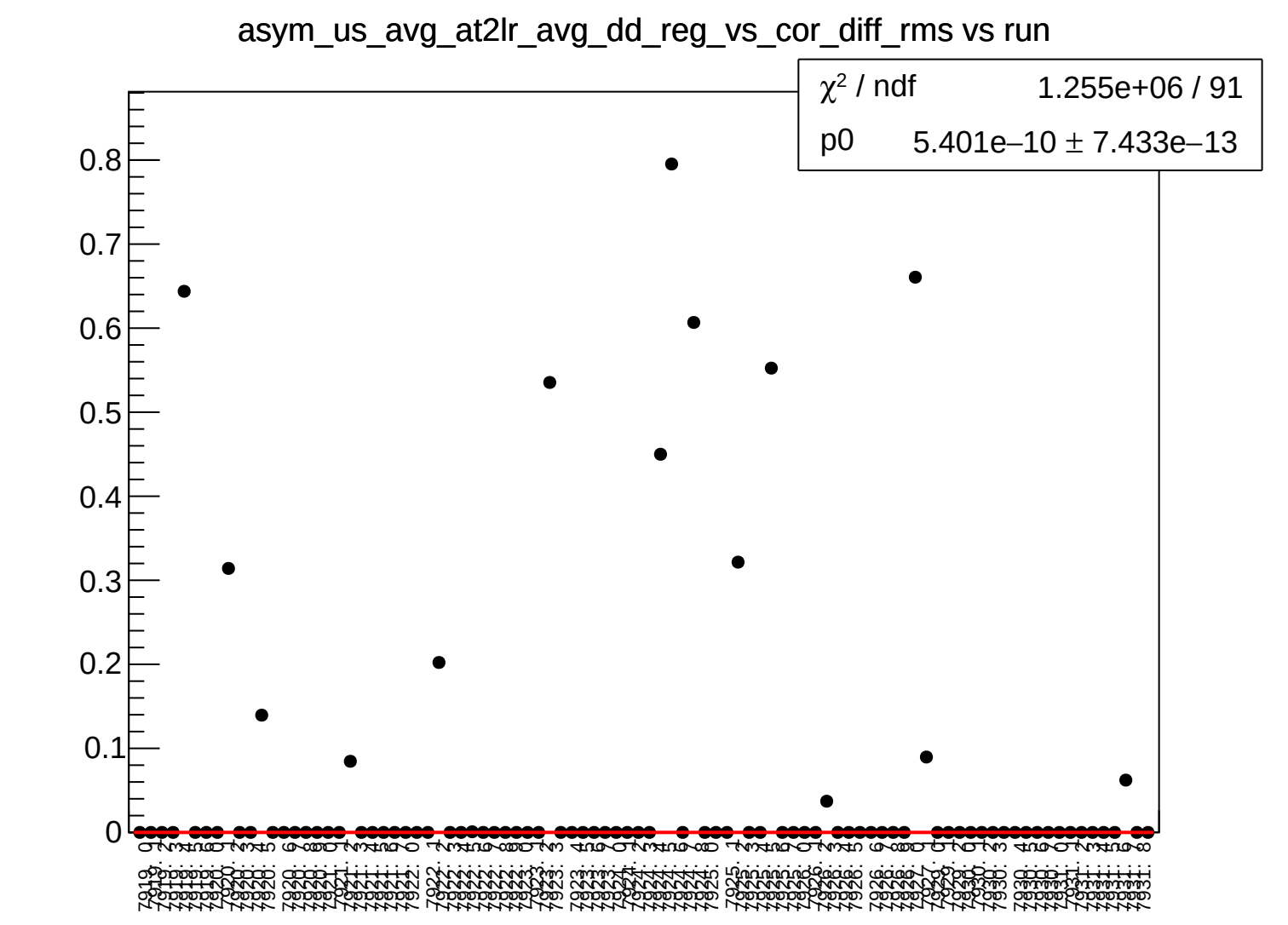

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 98.9 / 91
p0 −1.326e+04 ± 1.035e+04
pull
Entries 92
Mean −325.2
Std Dev 0
pull1D
Entries 92
Mean 0.004333
Std Dev 1.037

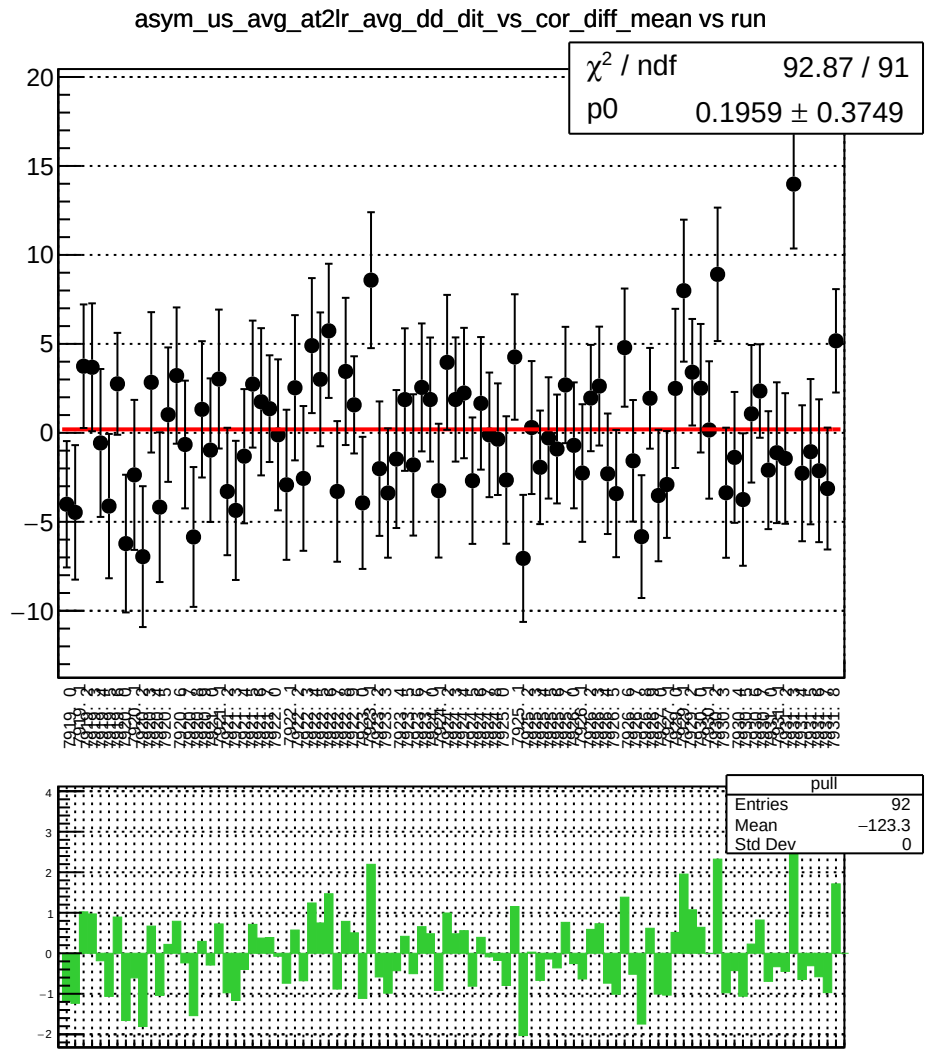

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 3289 / 91
p0 9766 ± 7.321
12000
11500
11000
10500
10000
9500
9000
8500

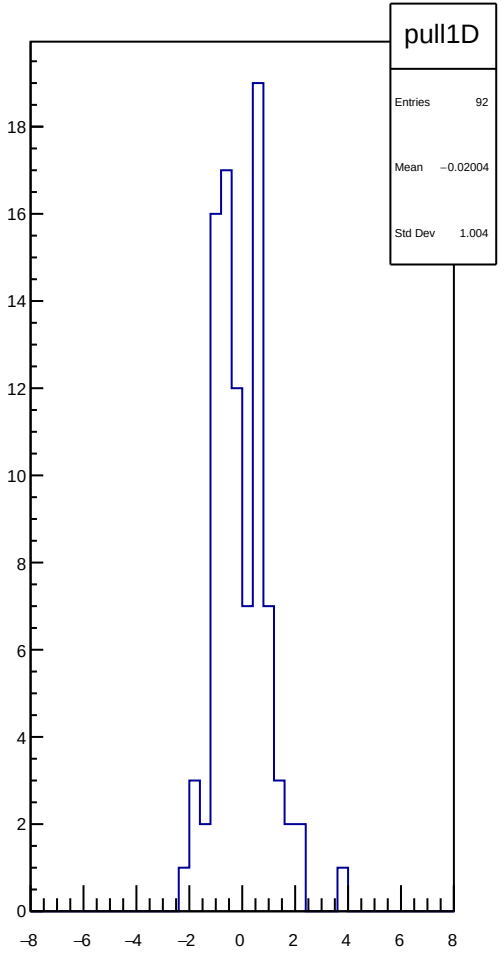

asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ² / ndf 98.16 / 91
p0 1.388e+04 ± 1.037e+04
pull
Entries 92
Mean −569.2
Std Dev 0
pull1D
Entries 92
Mean −0.003294
Std Dev 1.033

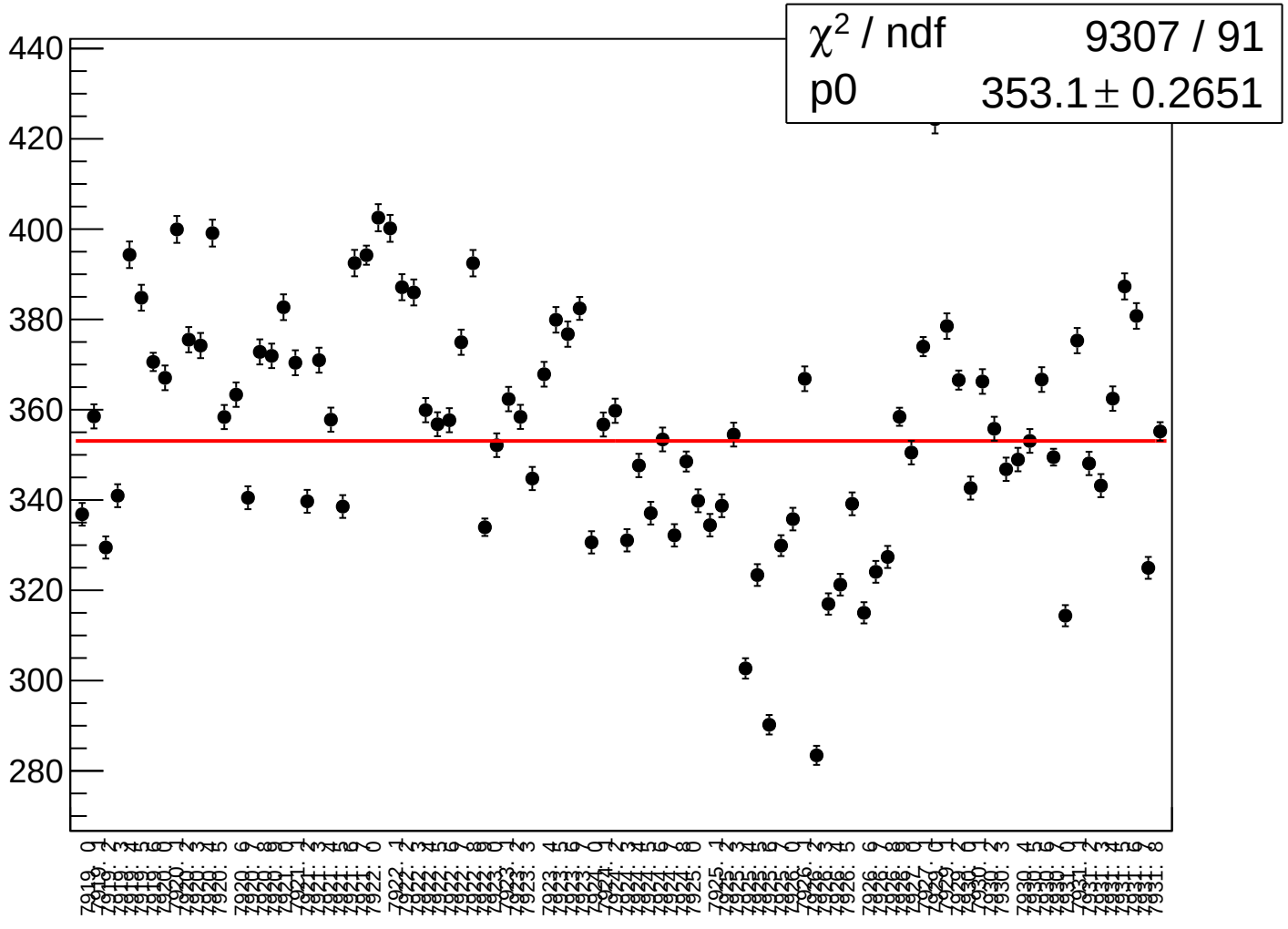

asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 3048 / 91
p0 9784 ± 7.333
12000
11500
11000
10500
10000
9500
9000

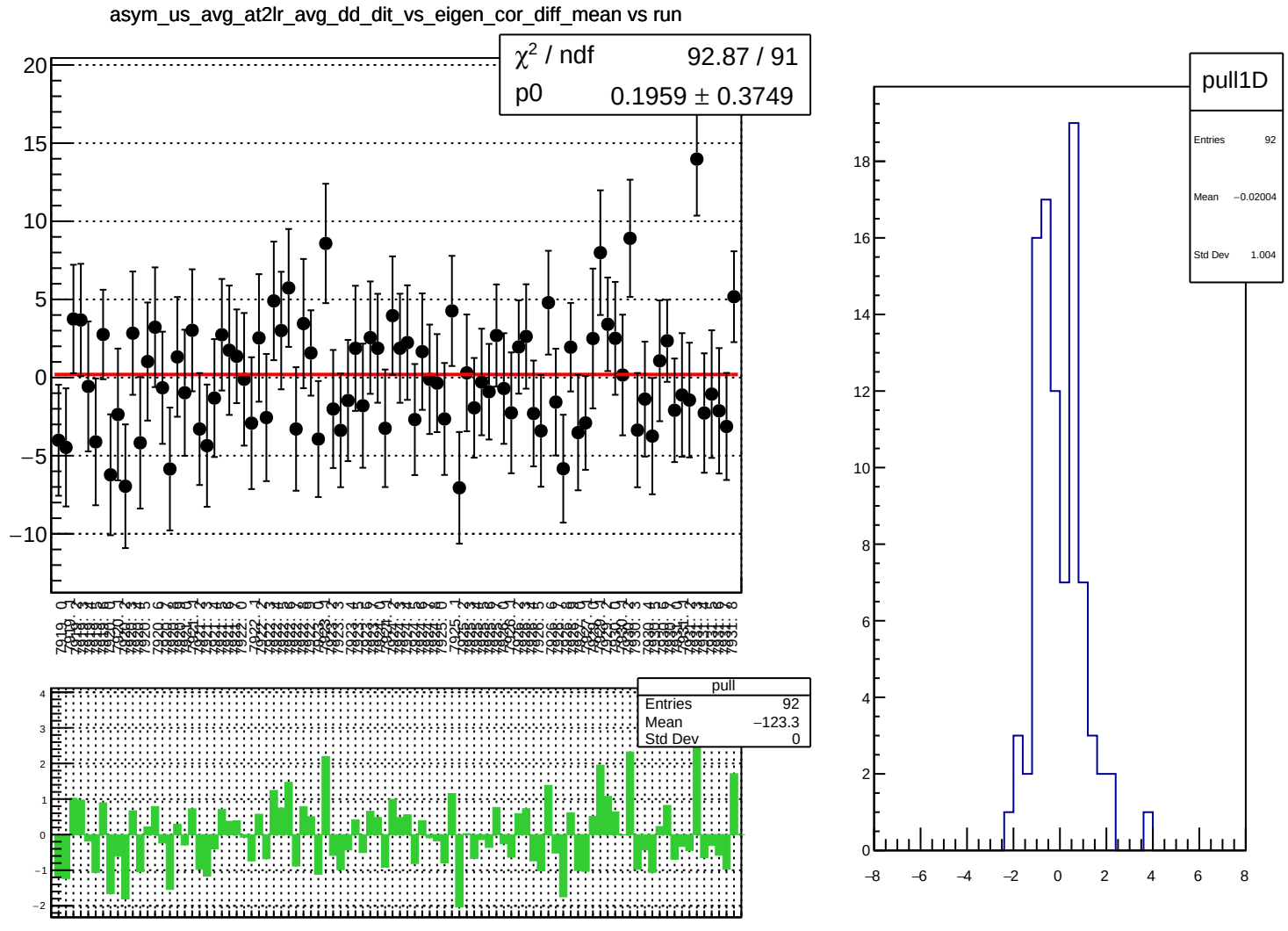

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 72.84 / 91
p0 1.088e−12 ± 1.051e−12
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 92
Mean 50.78
Std Dev 19.41
3
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.0548
Std Dev 0.8881
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

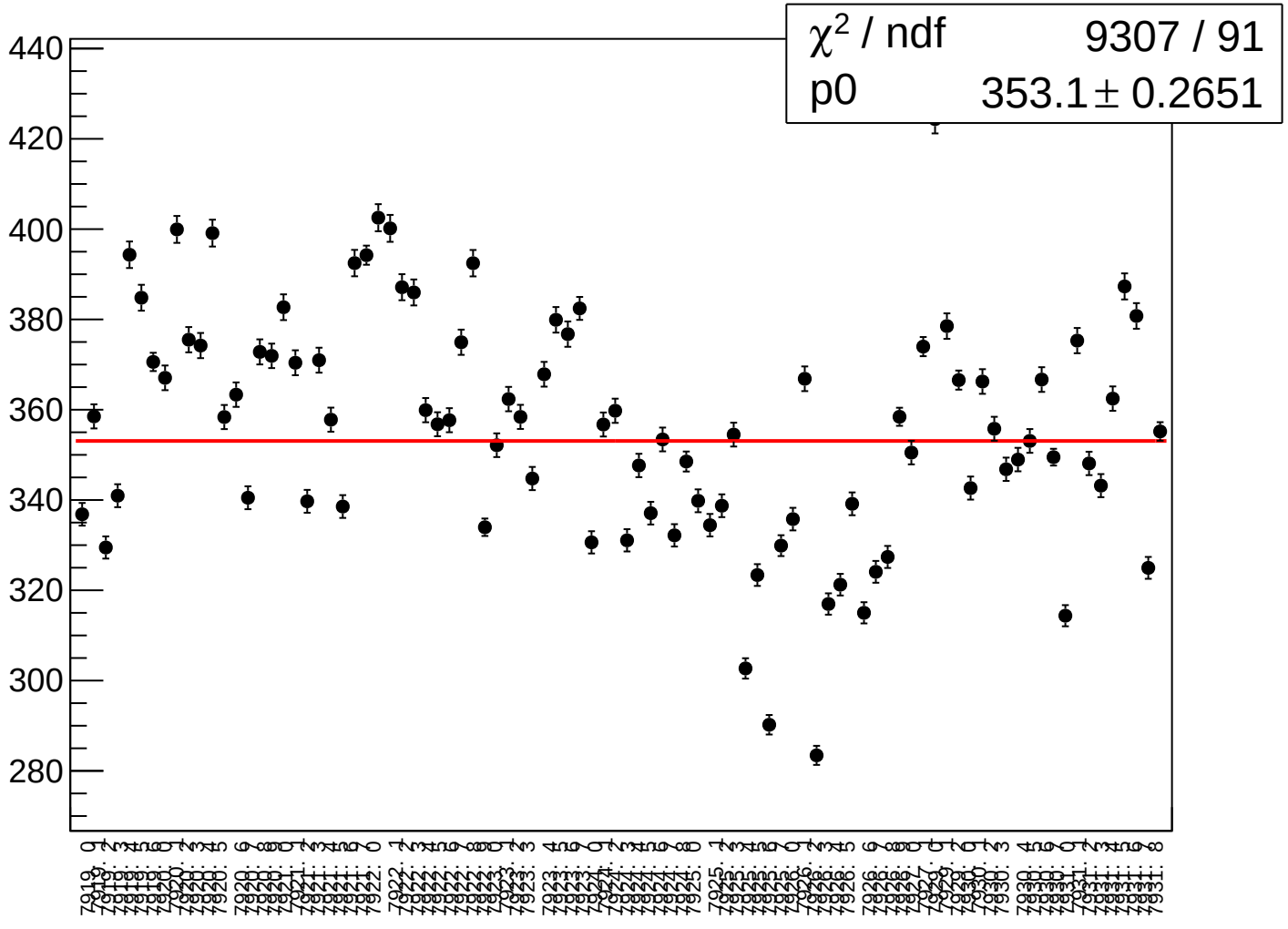

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.255e+06 / 91
p0 5.401e−10 ± 7.433e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

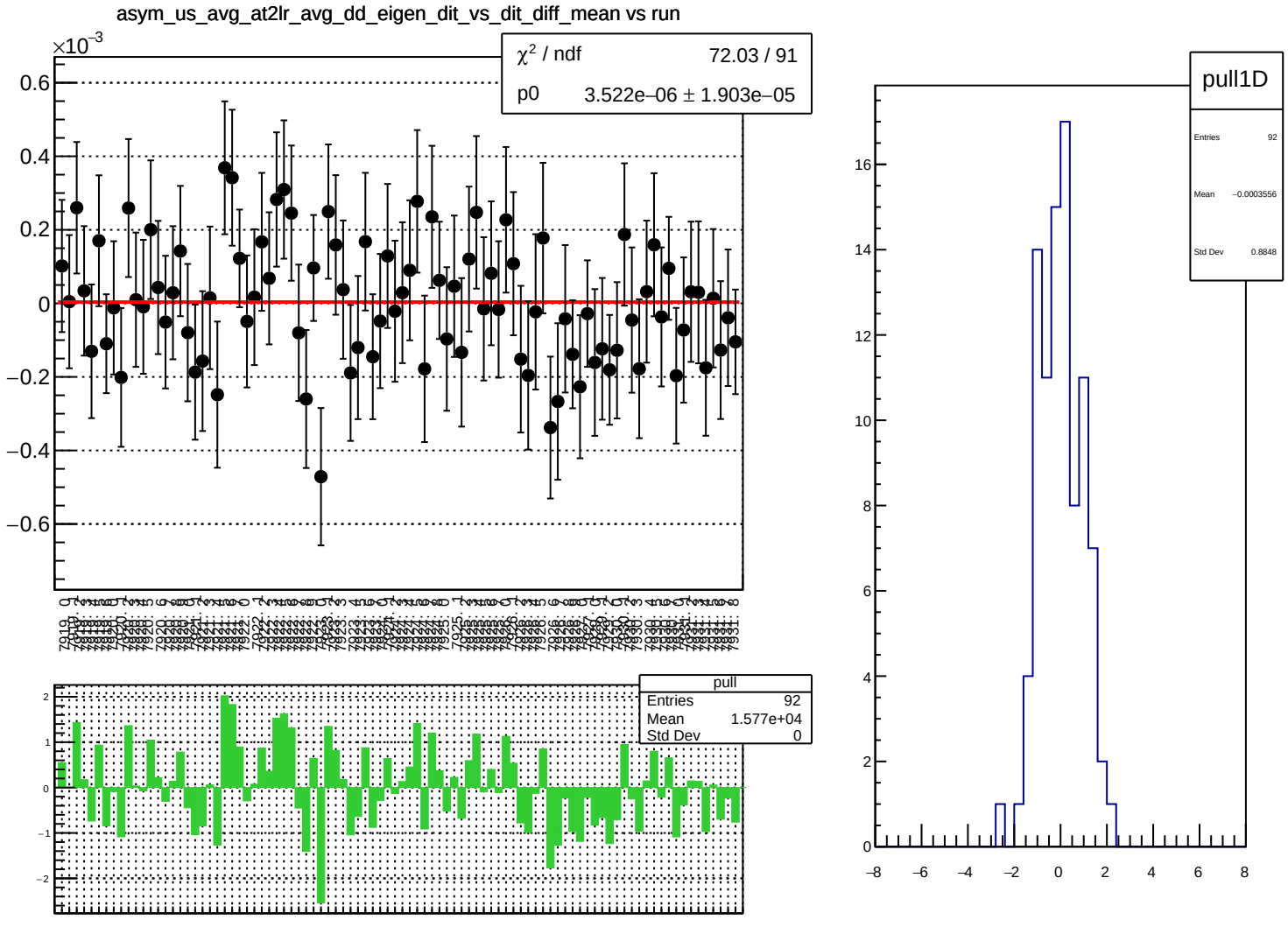

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 92.87 / 91
p0 0.1959 ± 0.3749
pull
Entries 92
Mean −123.3
Std Dev 0

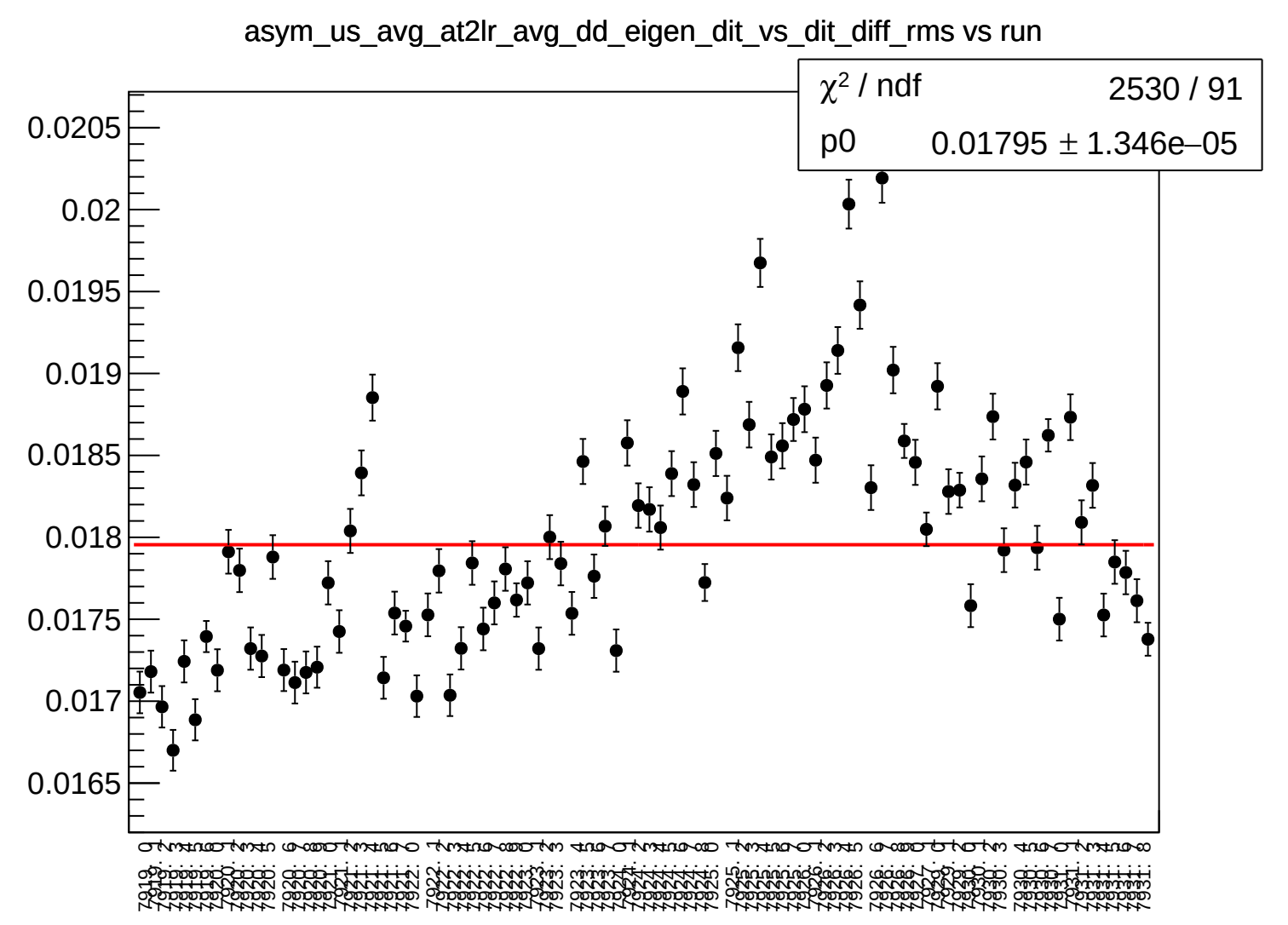

pull1D
Entries 92
Mean −0.02004
Std Dev 1.004

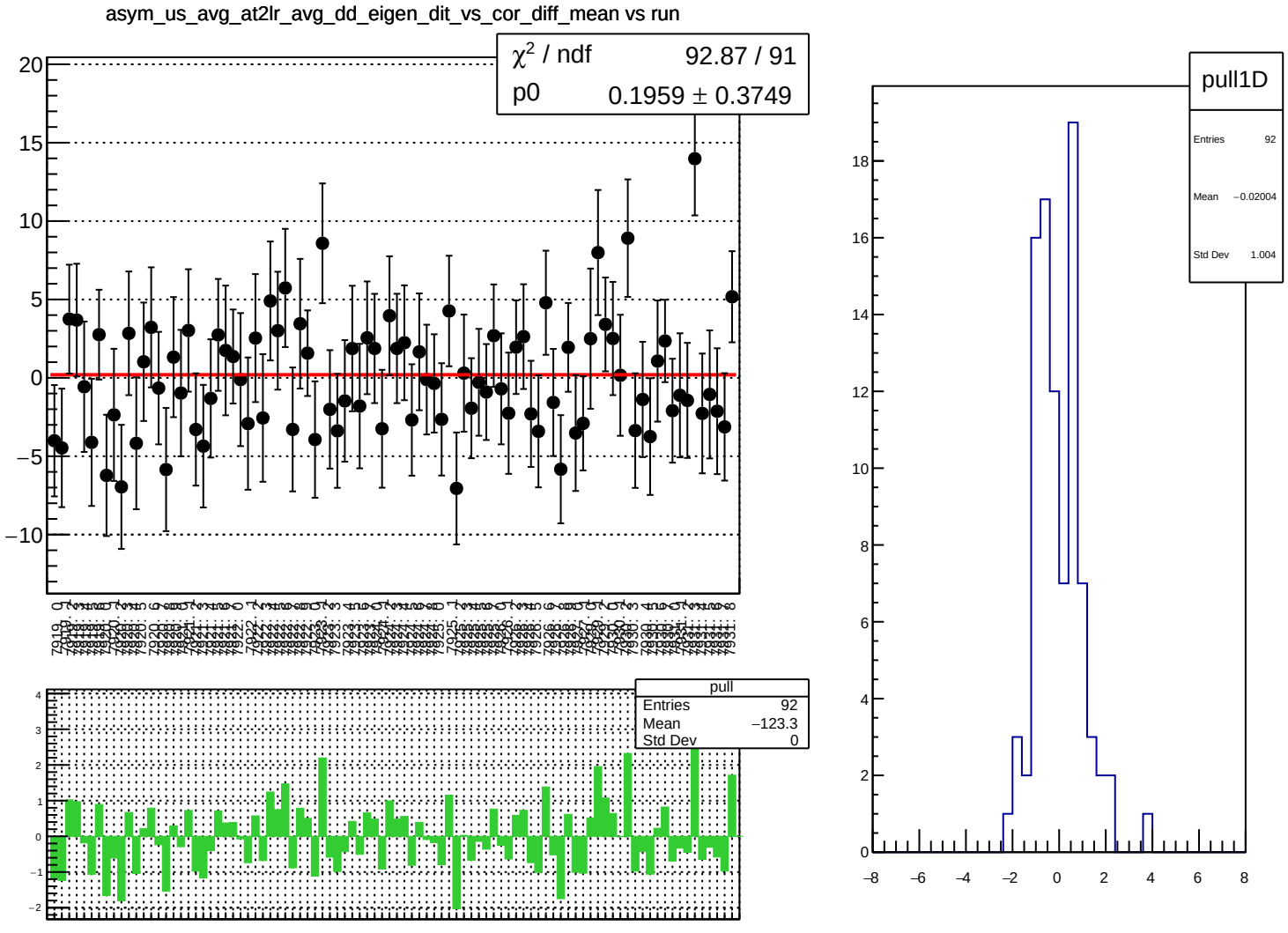

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 9307 / 91
p0 353.1 ± 0.2651
440
420
400
380
360
340
320
300
280

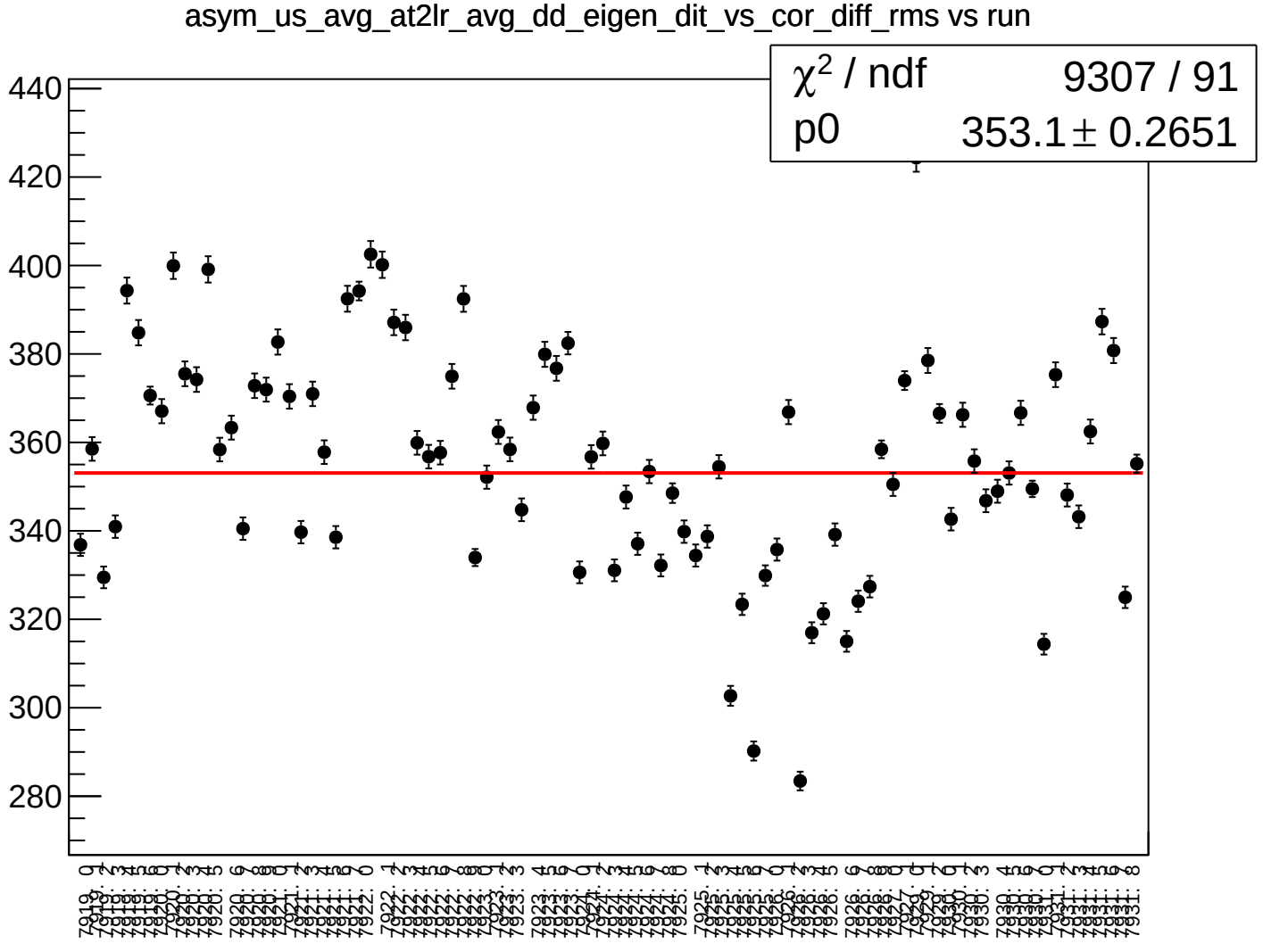

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.87 / 91
p0 0.1959 ± 0.3749
pull
Entries 92
Mean −123.3
Std Dev 0
pull1D
Entries 92
Mean −0.02004
Std Dev 1.004

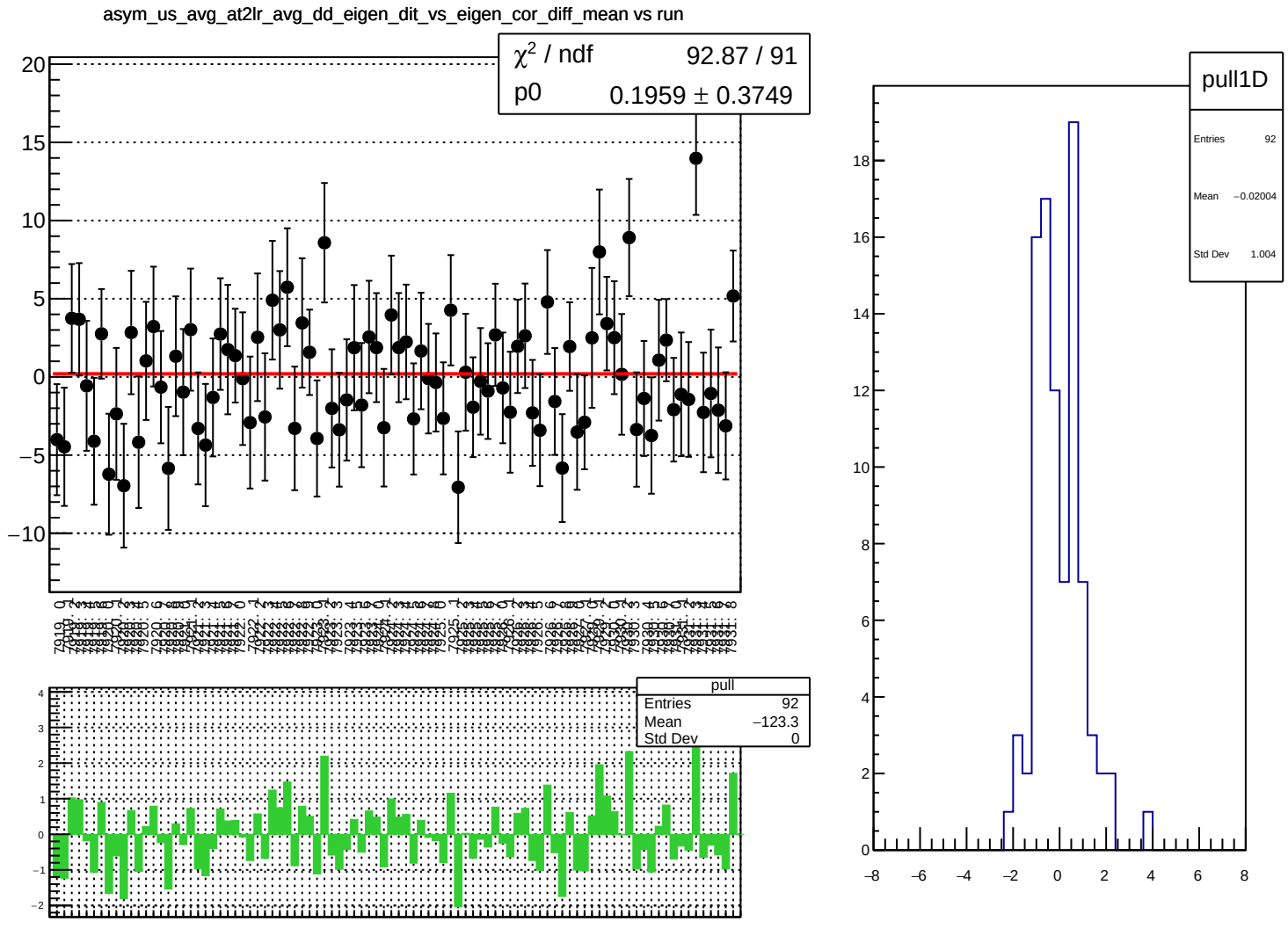

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9307 / 91
p0 353.1 ± 0.2651
440
420
400
380
360
340
320
300
280

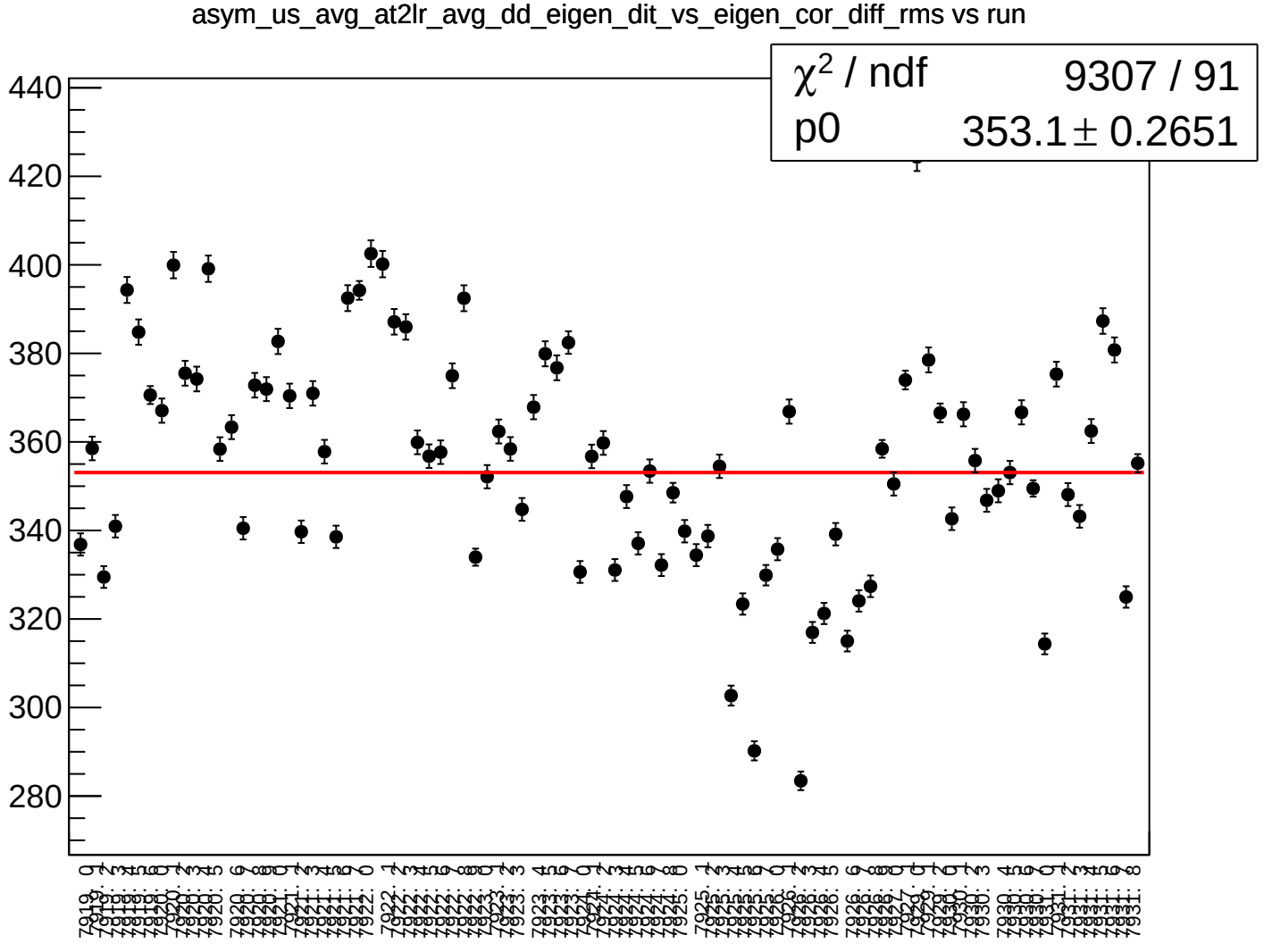

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 72.03 / 91
p0 3.522e−06 ± 1.903e−05
pull
Entries 92
Mean 1.577e+04
Std Dev 0
pull1D
Entries 92
Mean −0.0003556
Std Dev 0.8848

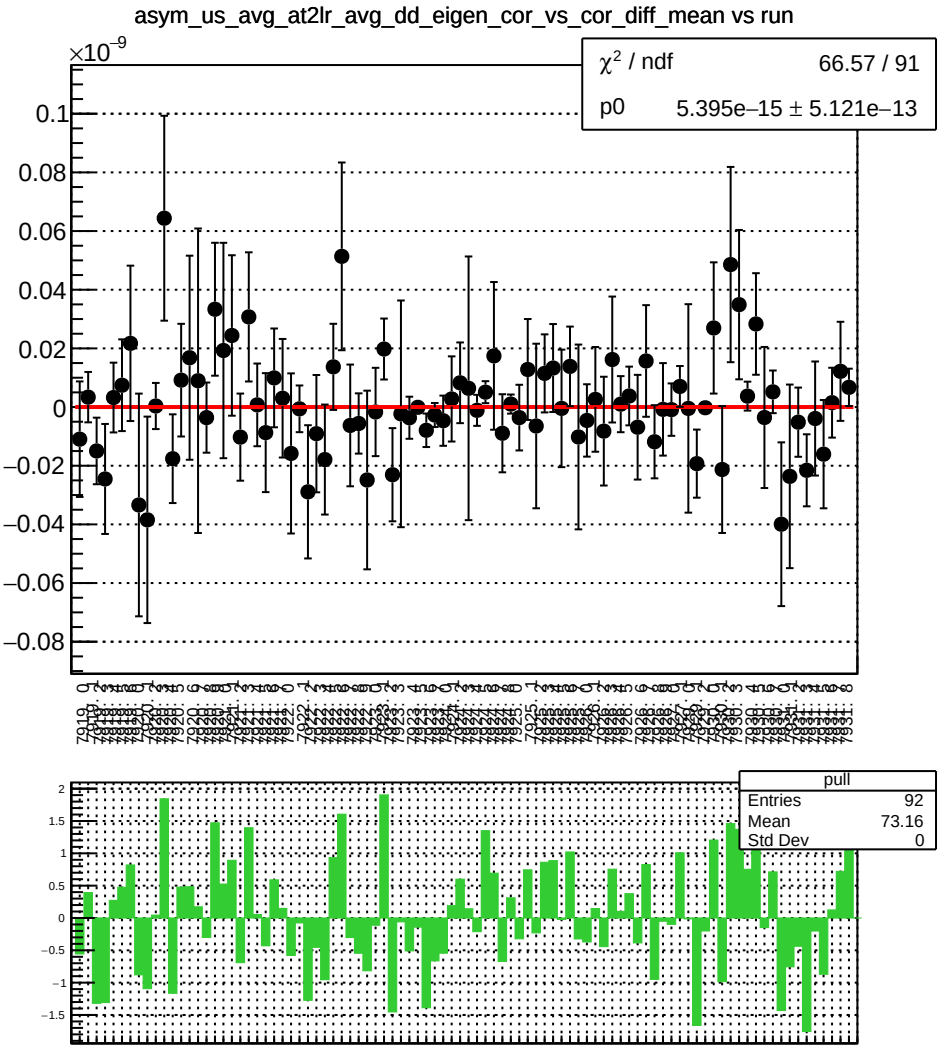

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2530 / 91
p0 0.01795 ± 1.346e−05
0.0205
0.02
0.0195
0.019
0.0185
0.018
0.0175
0.017
0.0165

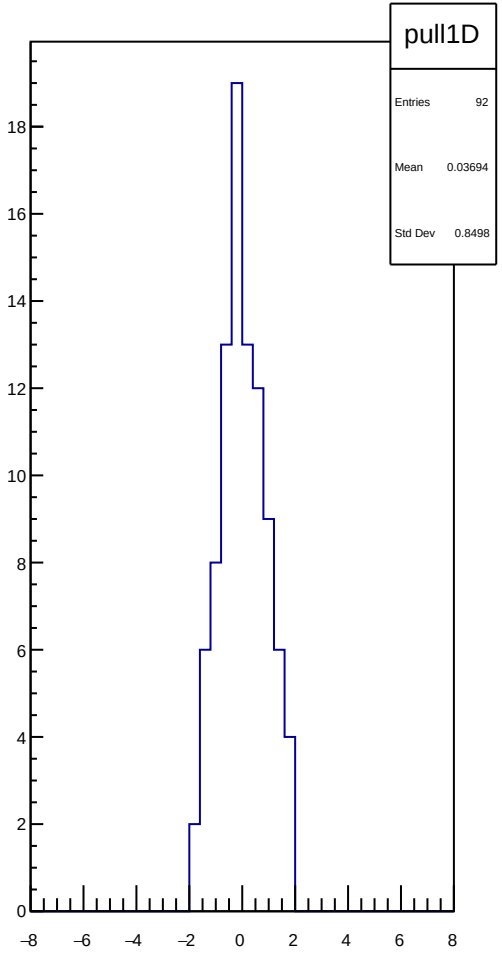

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.87 / 91
p0 0.1959 ± 0.3749
pull
Entries 92
Mean −123.3
Std Dev 0
pull1D
Entries 92
Mean −0.02004
Std Dev 1.004

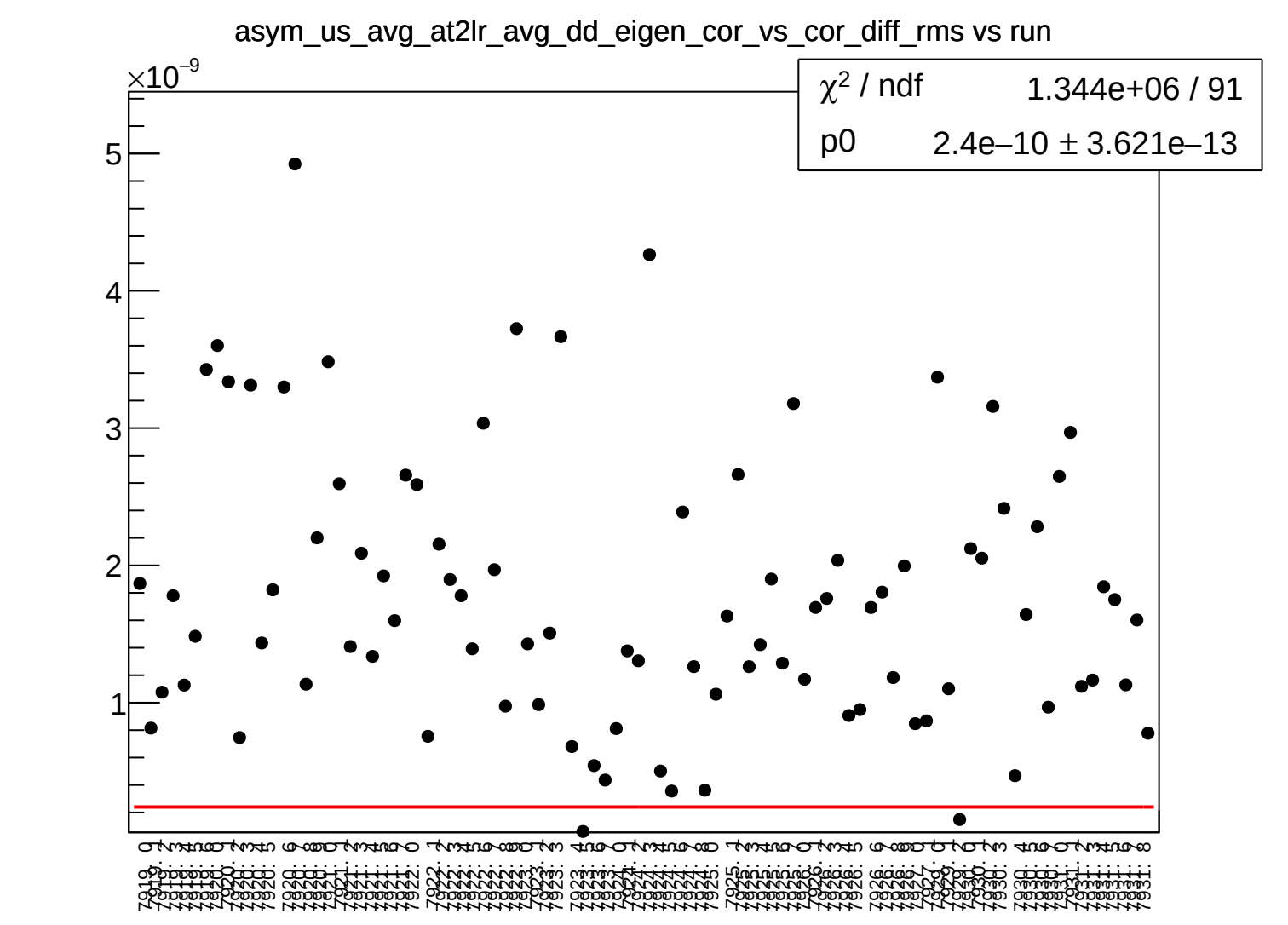

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9307 / 91
p0 353.1 ± 0.2651
440
420
400
380
360
340
320
300
280

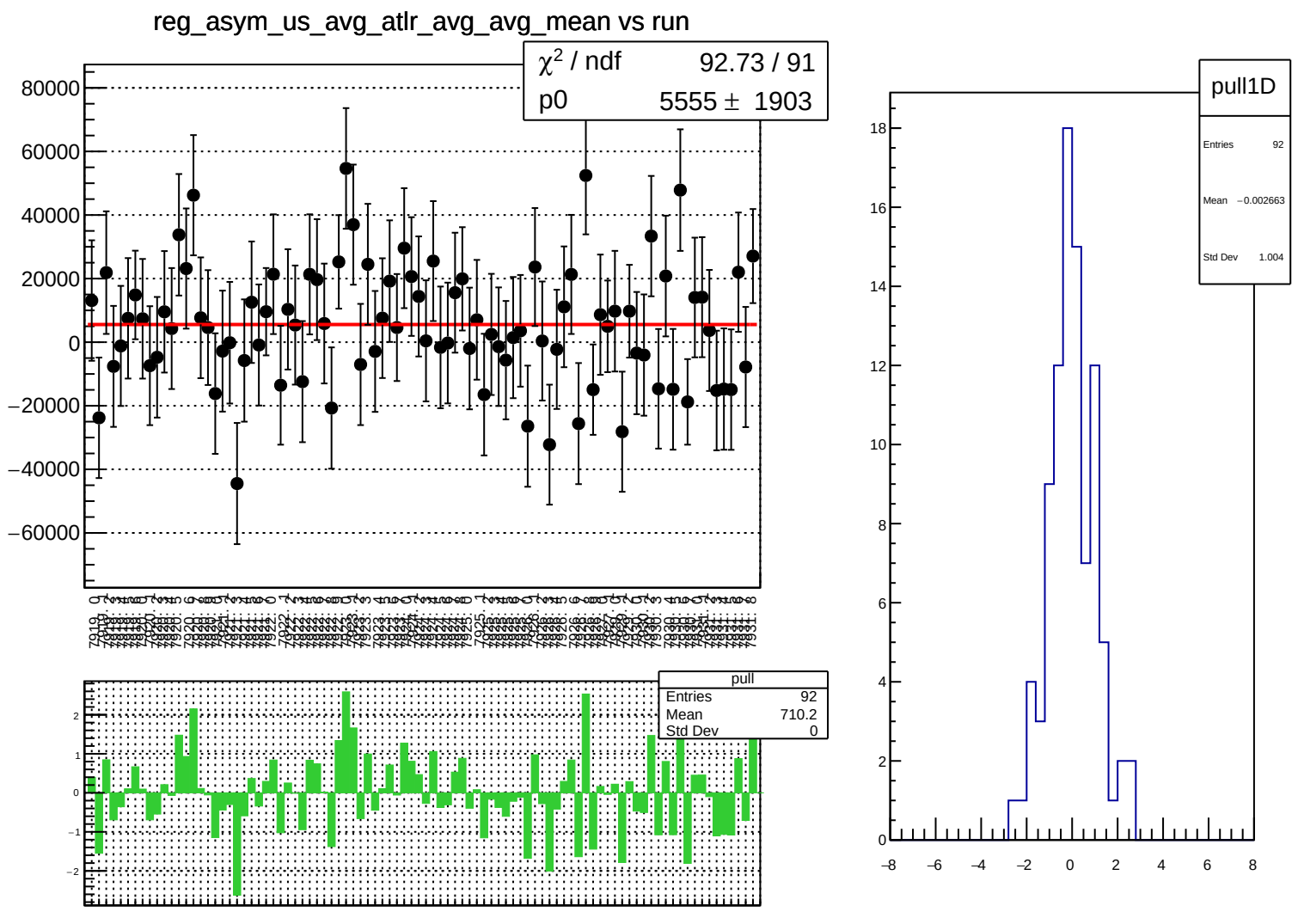

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.87 / 91
p0 0.1959 ± 0.3749
pull
Entries 92
Mean −123.3
Std Dev 0
pull1D
Entries 92
Mean −0.02004
Std Dev 1.004

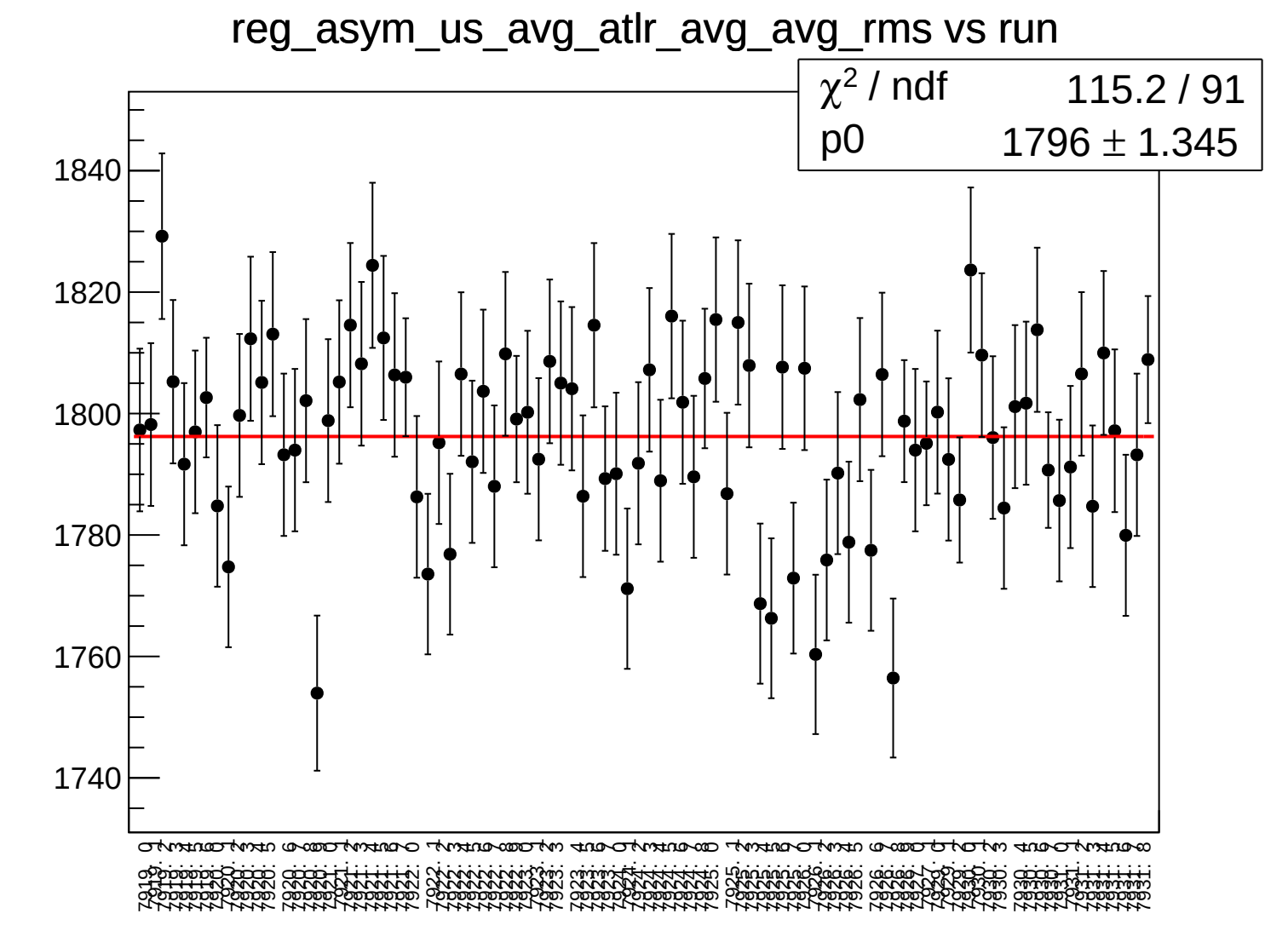

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 9307 / 91
p0 353.1 ± 0.2651
440
420
400
380
360
340
320
300
280

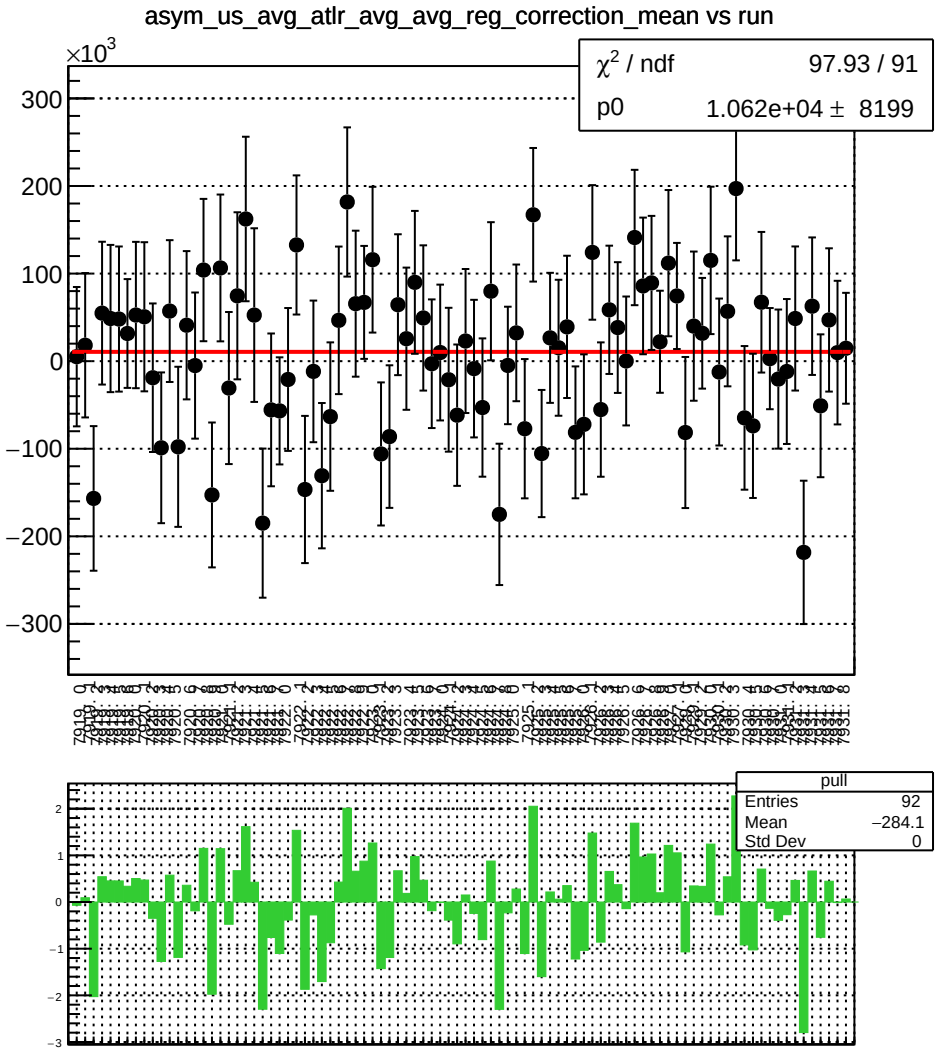

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 66.57 / 91
p0 5.395e−15 ± 5.121e−13
pull
Entries 92
Mean 73.16
Std Dev 0

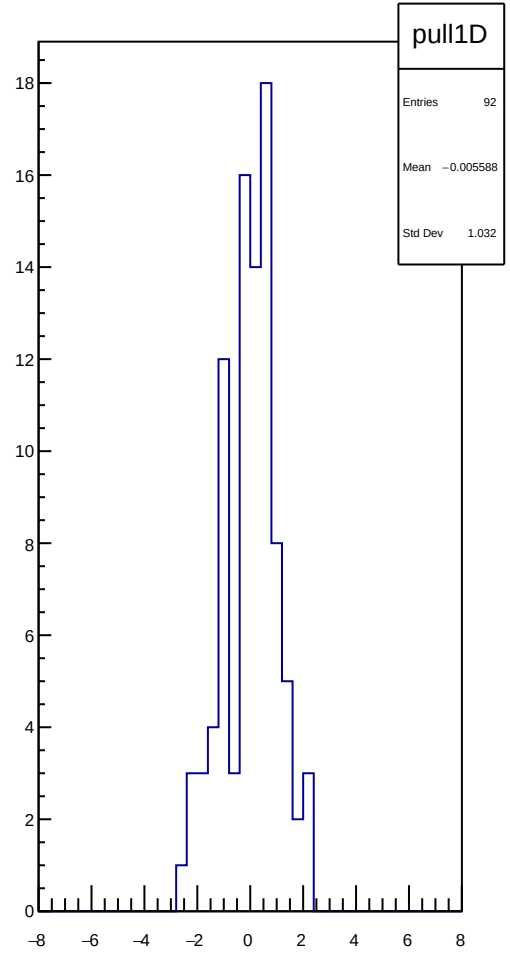

pull1D
Entries 92
Mean 0.03694
Std Dev 0.8498

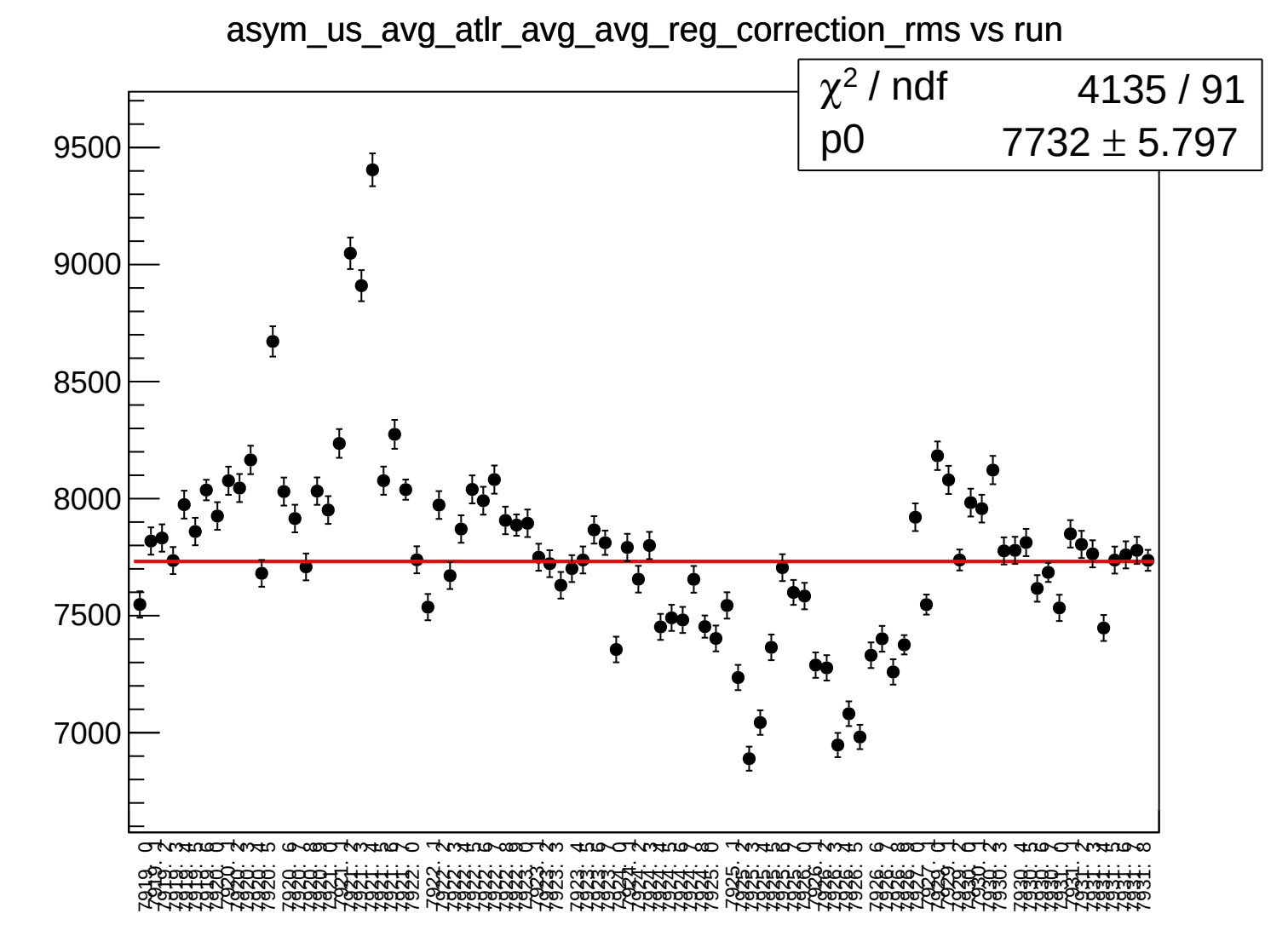

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.344e+06 / 91
p0 2.4e−10 ± 3.621e−13
5
4
3
2
1

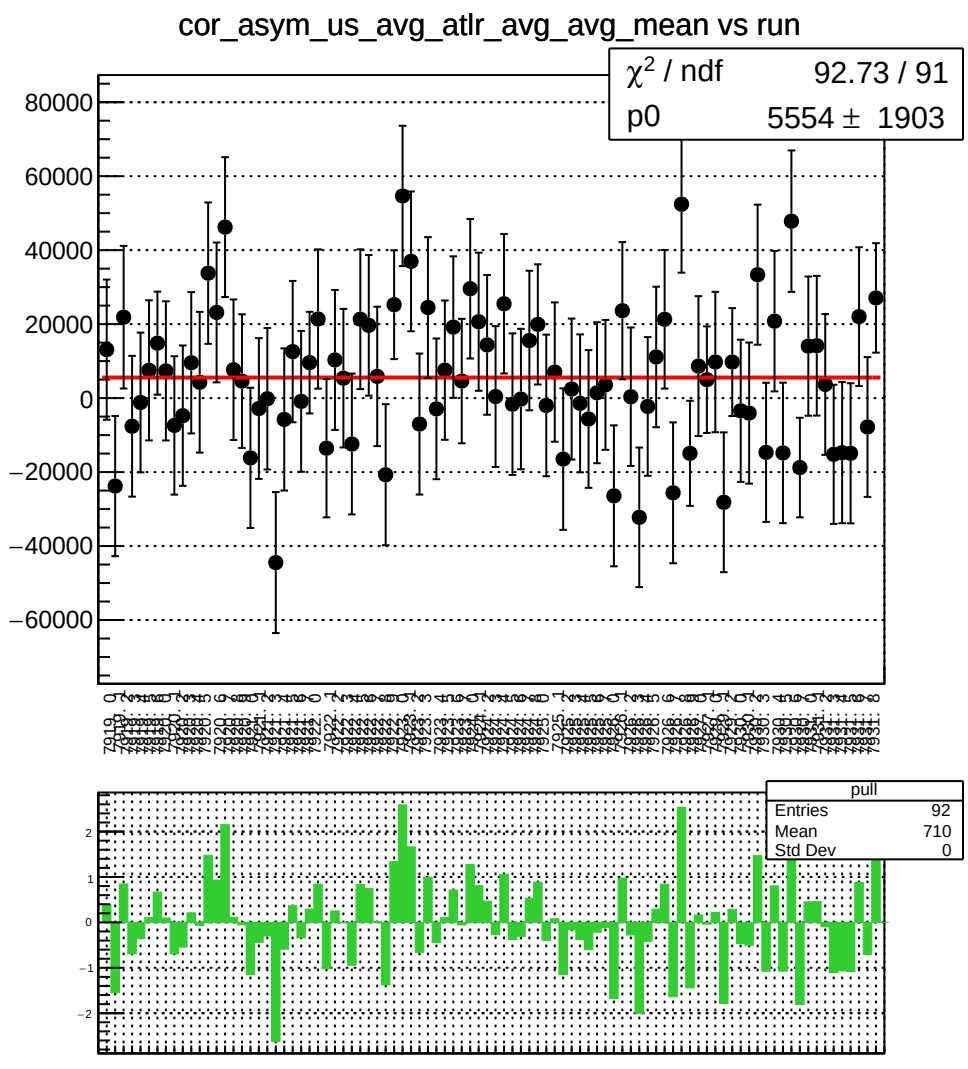

reg_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 92.73 / 91
p0 5555 ± 1903
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 710.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.002663
Std Dev 1.004
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

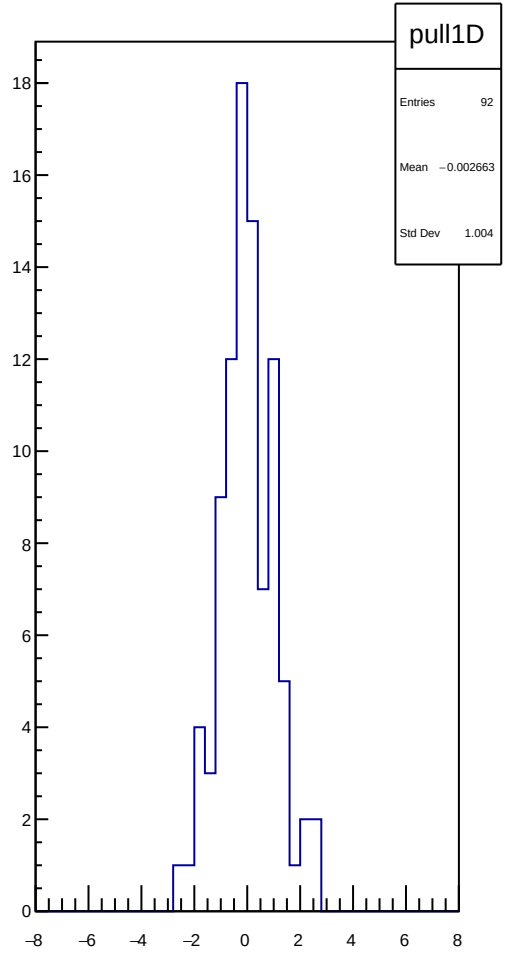

reg_asym_us_avg_atlr_avg_avg_rms vs run
χ^2 / ndf 115.2 / 91
p0 1796 ± 1.345
1840
1820
1800
1780
1760
1740

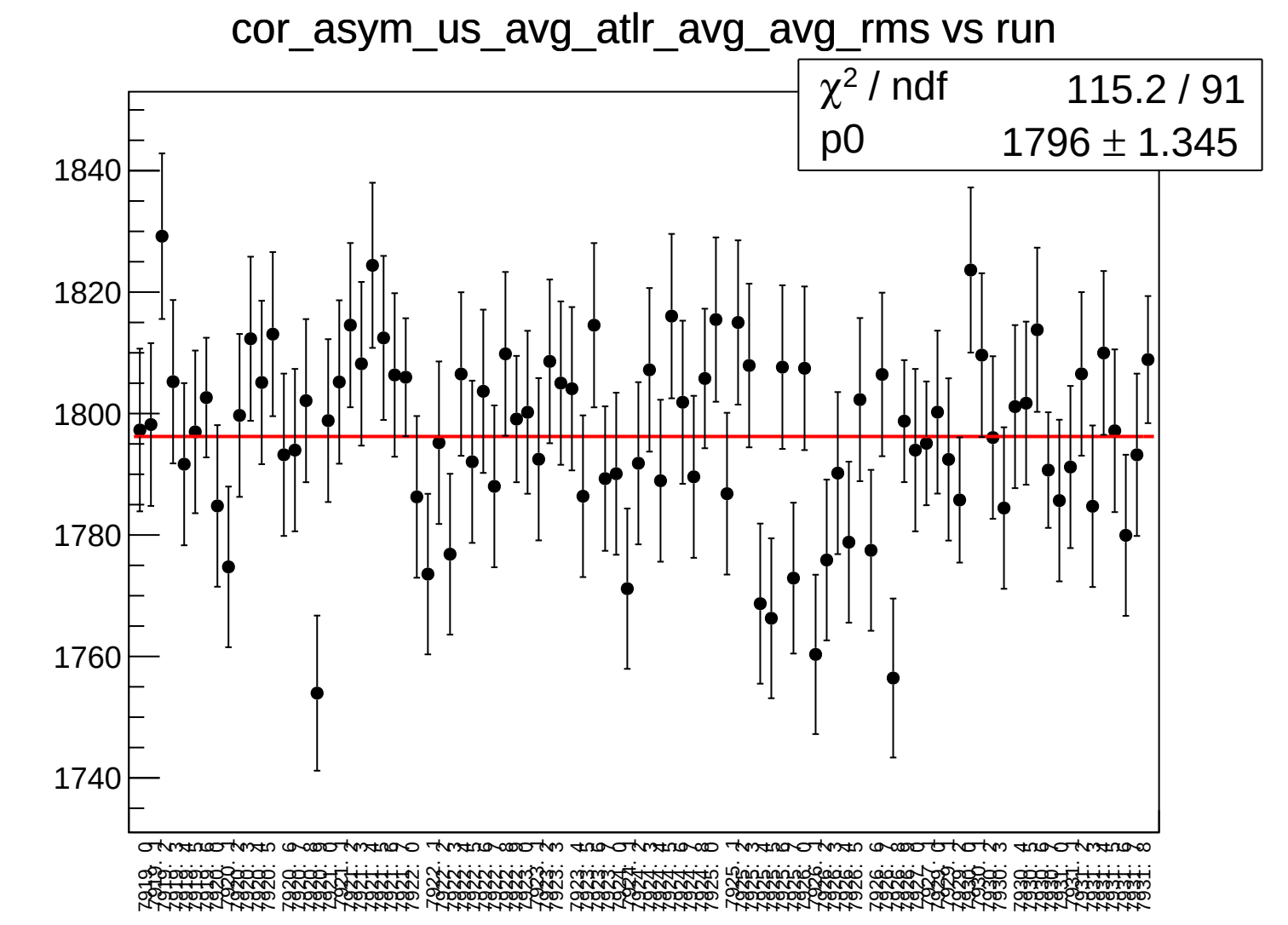

asym_us_avg_atlr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 97.93 / 91
p0 1.062e+04 ± 8199
pull
Entries 92
Mean −284.1
Std Dev 0

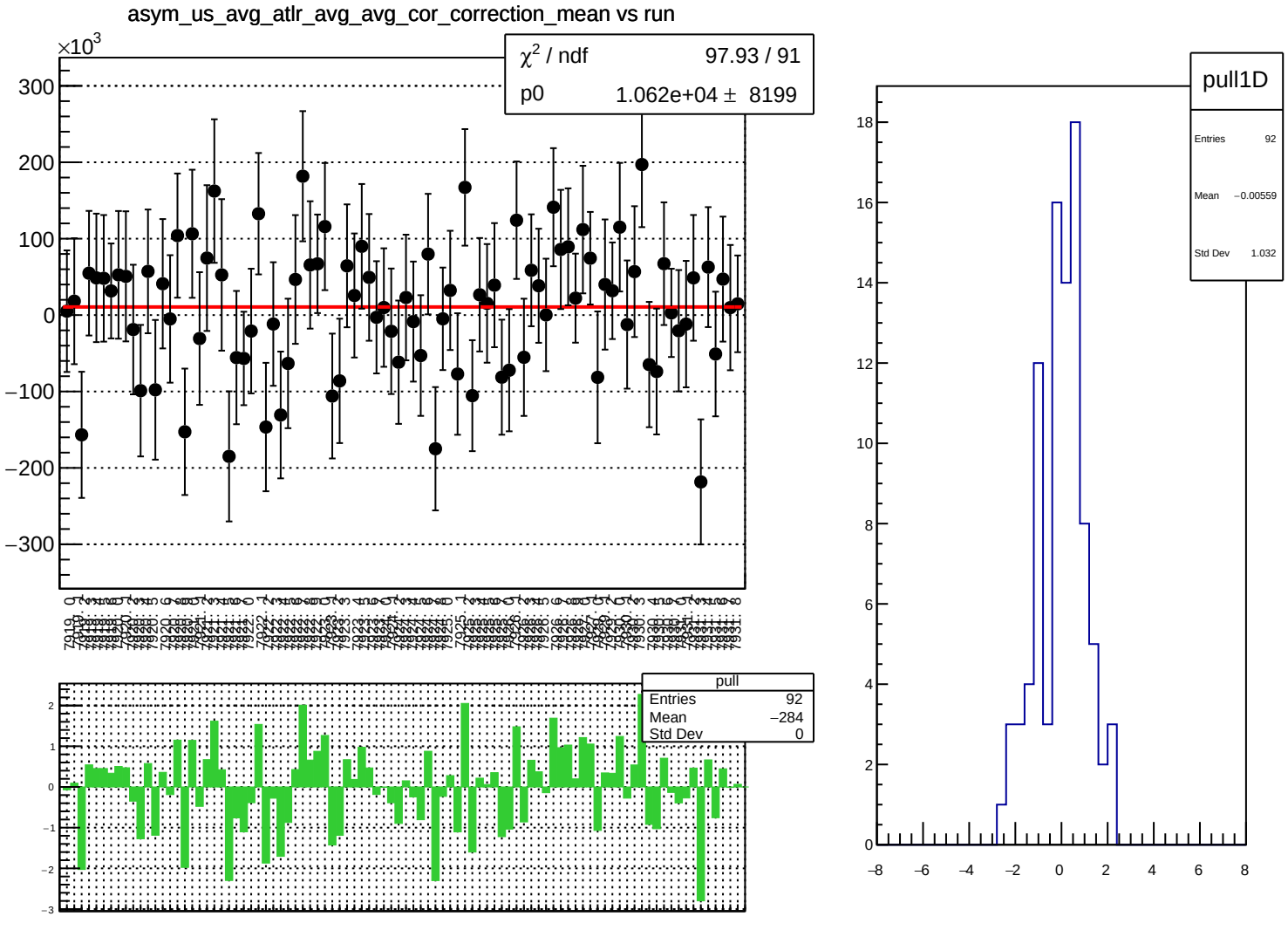

pull1D
Entries 92
Mean −0.005588
Std Dev 1.032

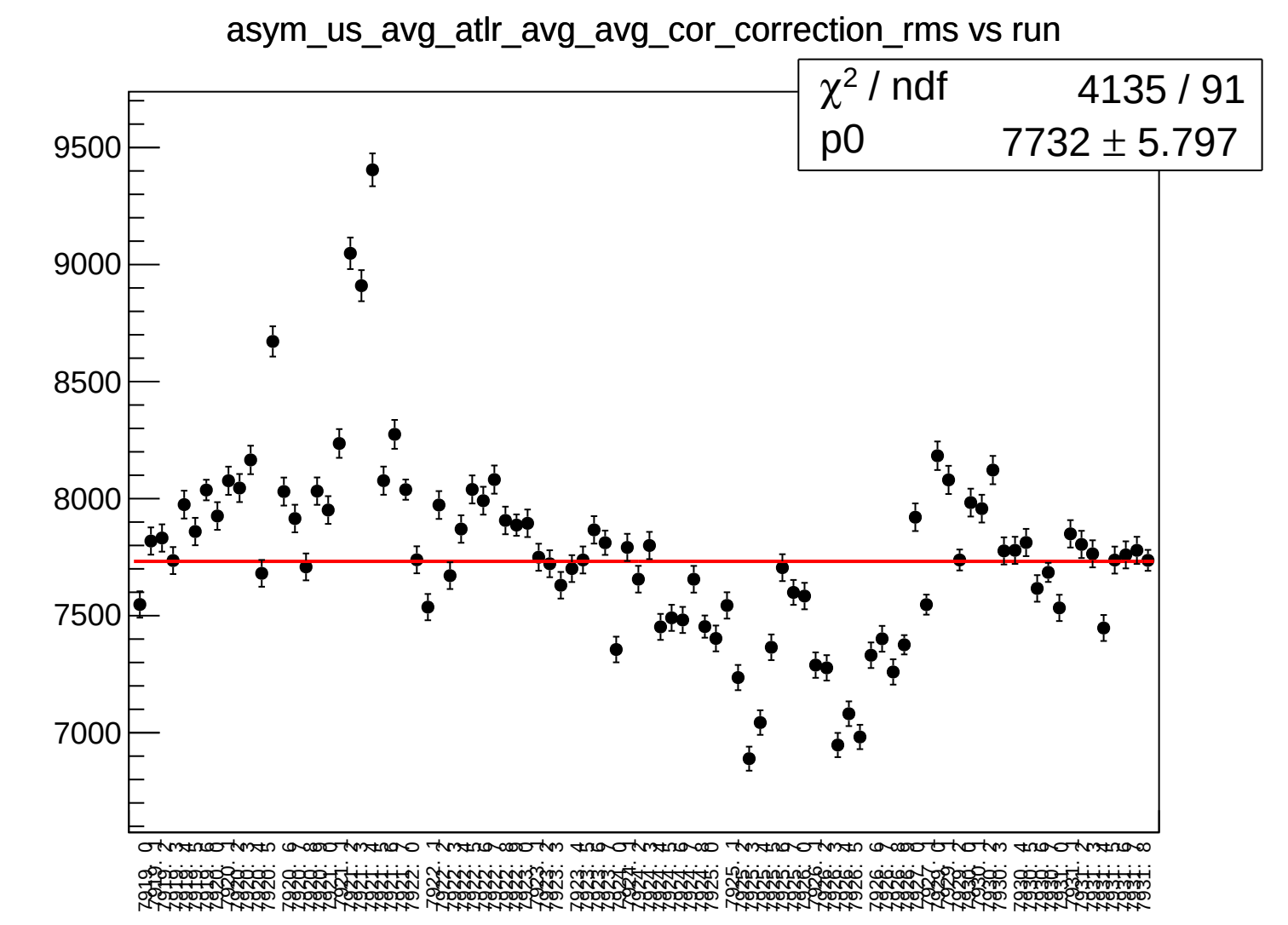

asym_us_avg_atlr_avg_avg_reg_correction_rms vs run
χ² / ndf 4135 / 91
p0 7732 ± 5.797
9500
9000
8500
8000
7500
7000

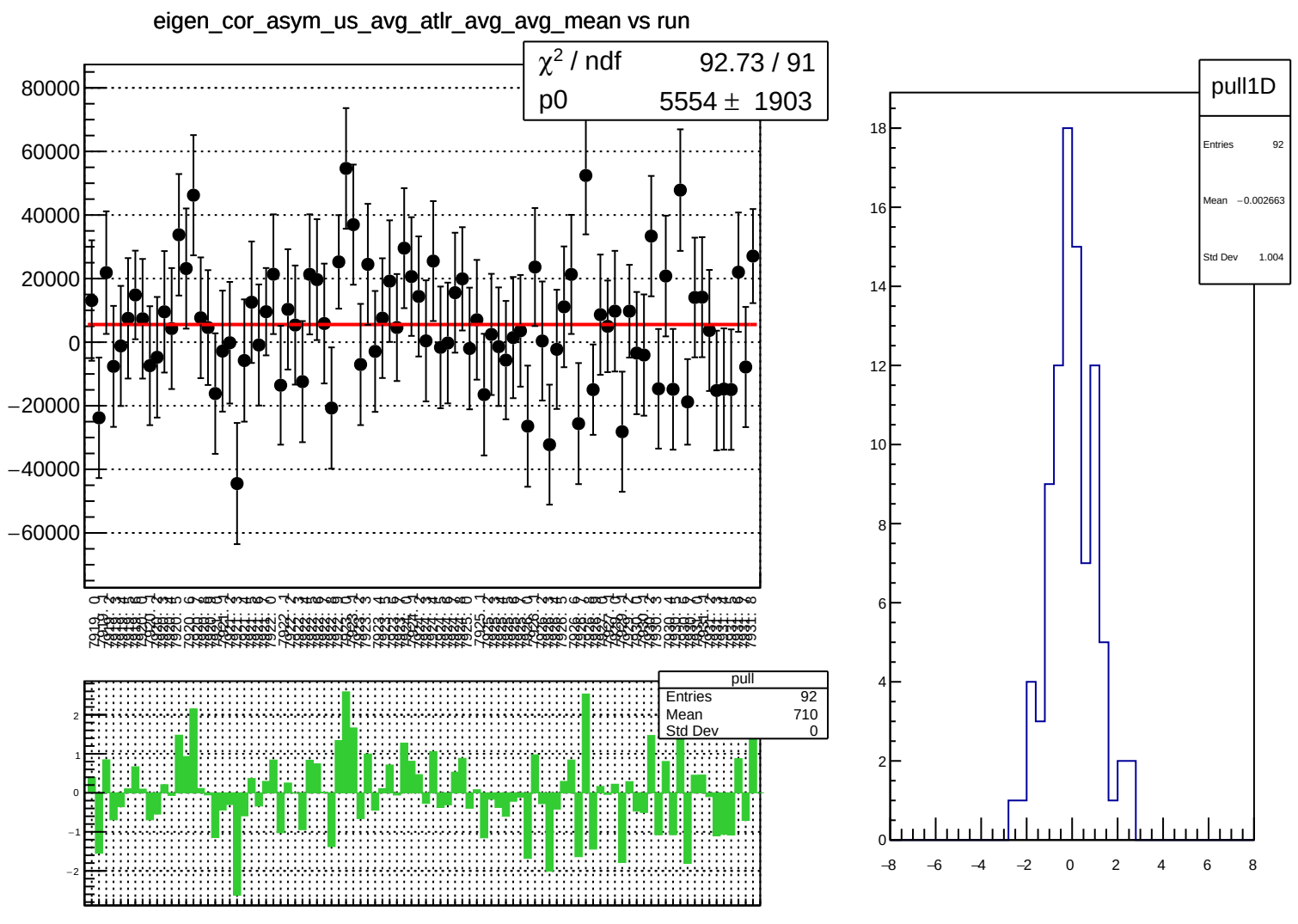

cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 92.73 / 91
p0 5554 ± 1903
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 710
Std Dev 0
2
1
0
−1
−2

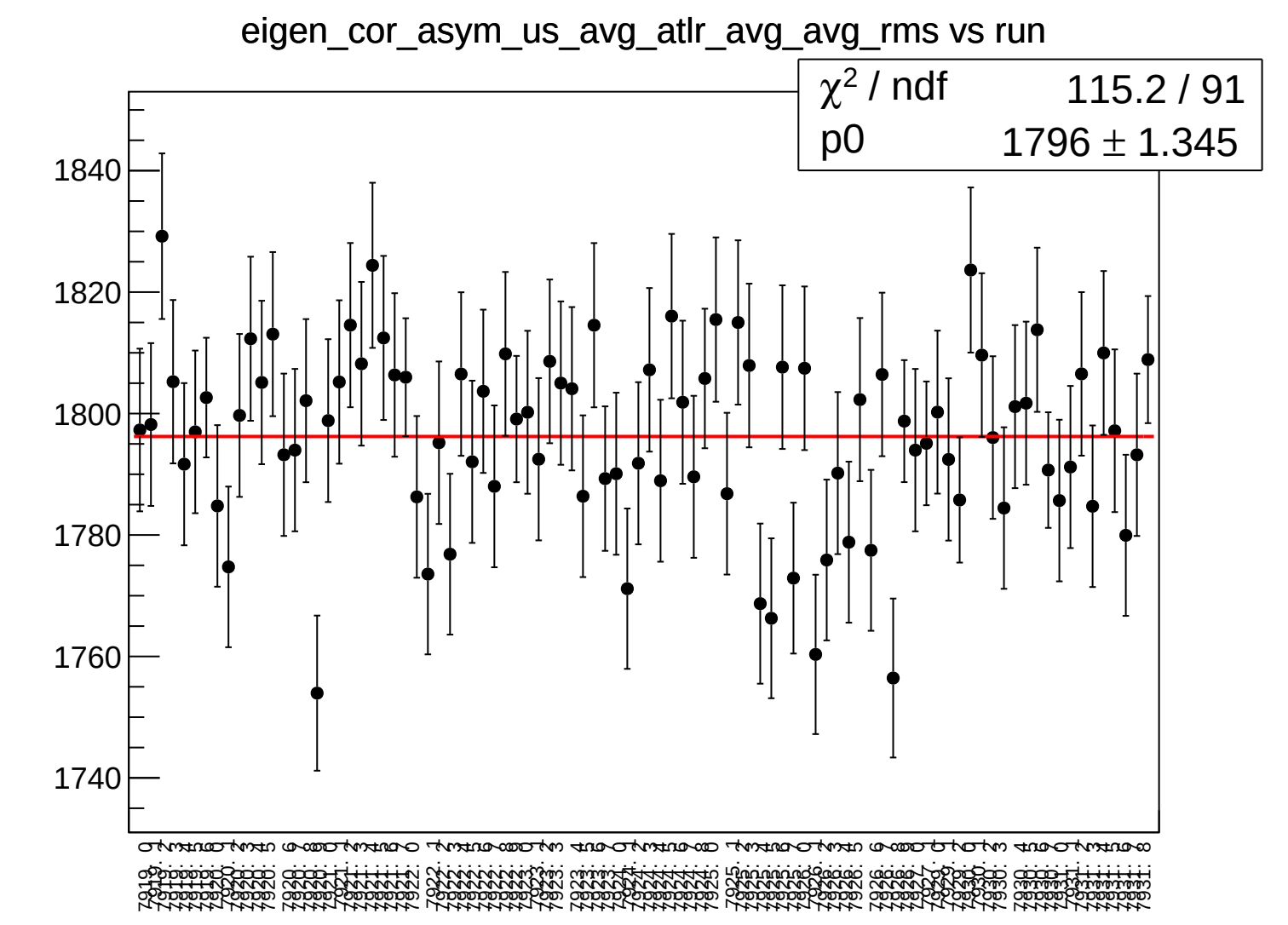

pull1D
Entries 92
Mean −0.002663
Std Dev 1.004
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

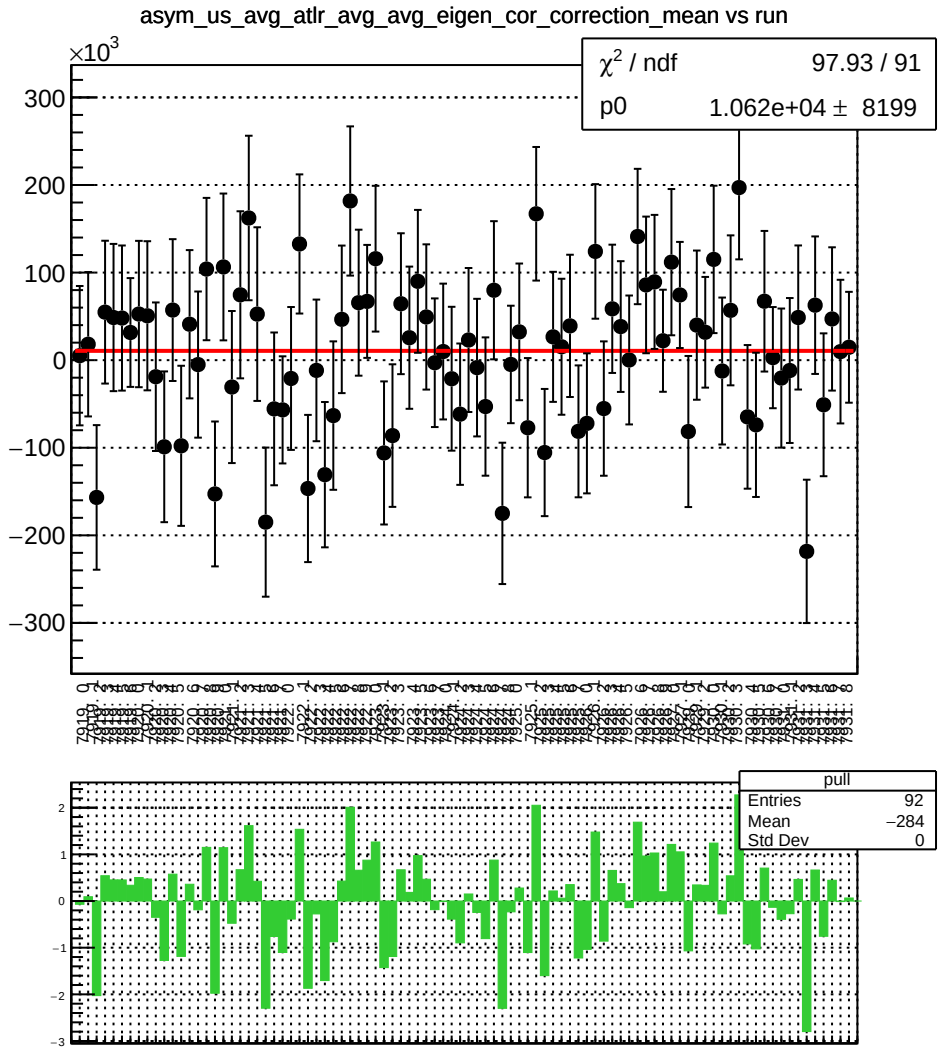

cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 115.2 / 91
p0 1796 ± 1.345
1840
1820
1800
1780
1760
1740

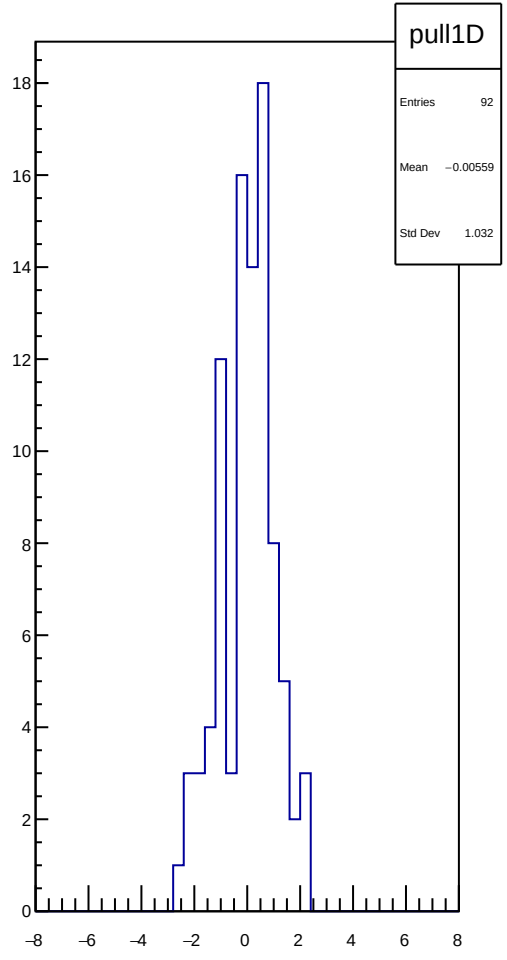

asym_us_avg_atlr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 97.93 / 91
p0 1.062e+04 ± 8199
pull
Entries 92
Mean −284
Std Dev 0
pull1D
Entries 92
Mean −0.00559
Std Dev 1.032

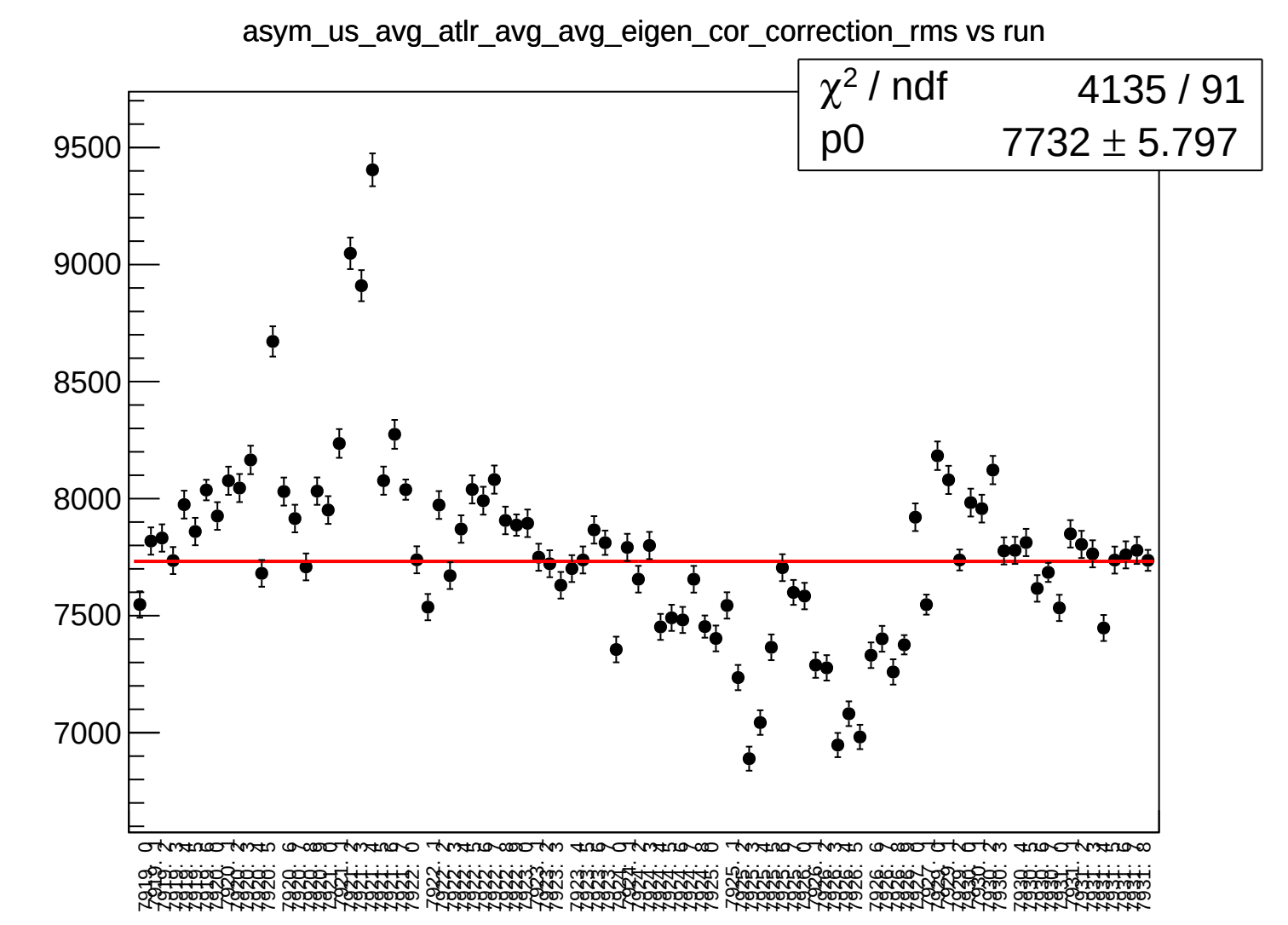

asym_us_avg_atlr_avg_avg_cor_correction_rms vs run
χ^2 / ndf 4135 / 91
p0 7732 ± 5.797
9500
9000
8500
8000
7500
7000

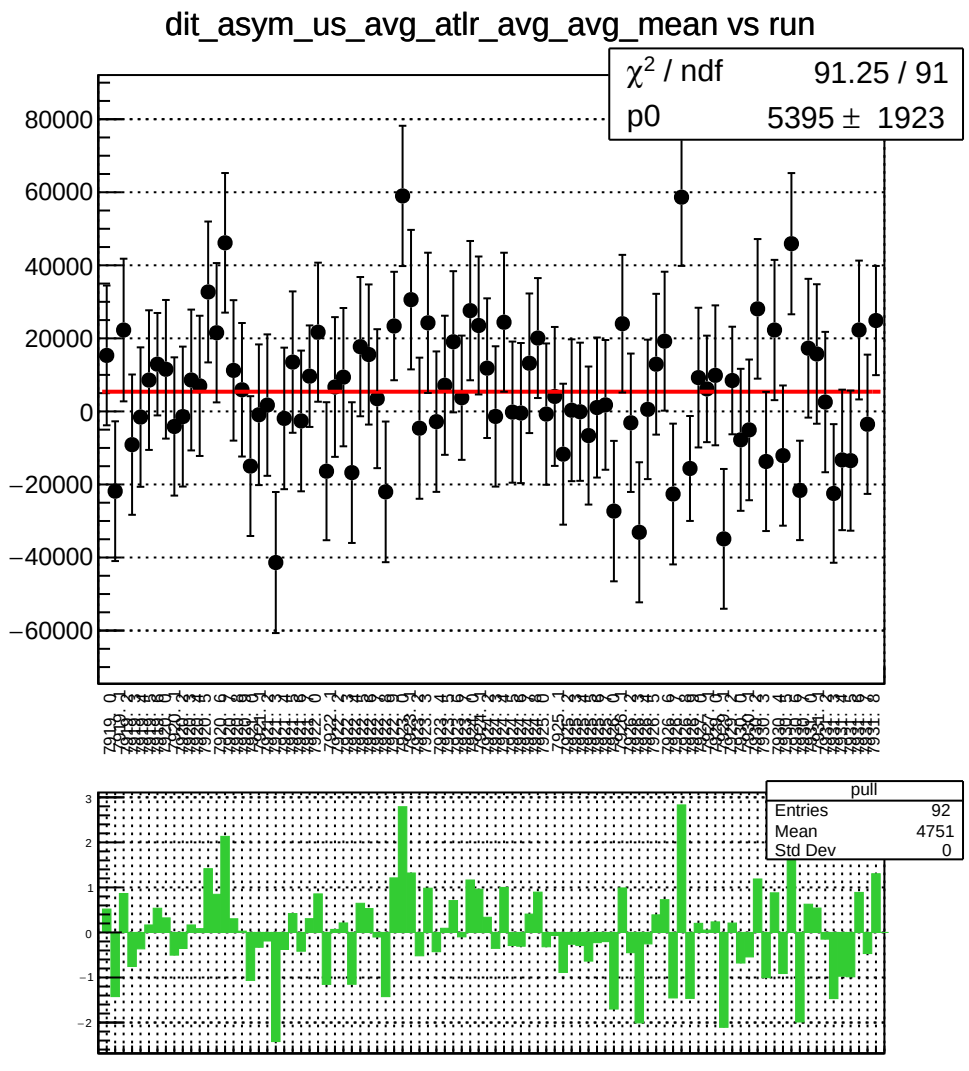

eigen_cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 92.73 / 91
p0 5554 ± 1903
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 710
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.002663
Std Dev 1.004
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

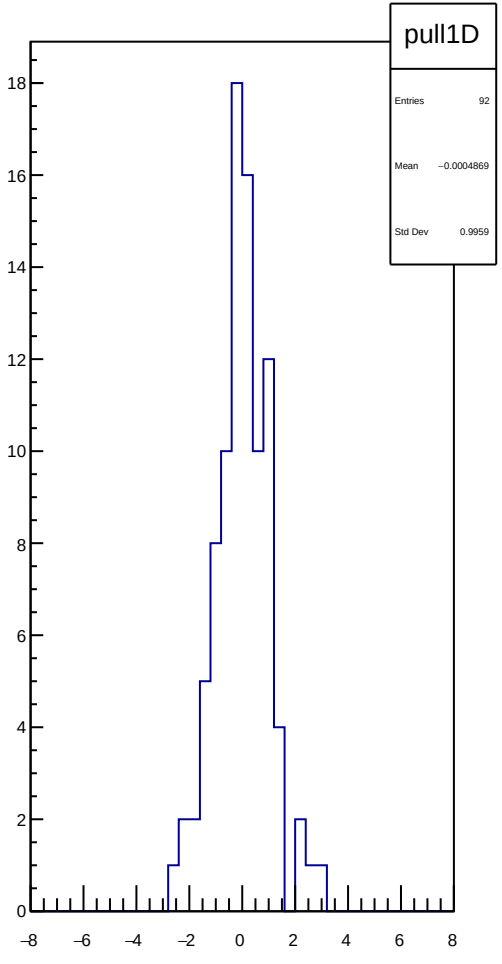

eigen_cor_asym_us_avg_atlr_avg_avg_rms vs run
χ^2 / ndf 115.2 / 91
p0 1796 ± 1.345
1840
1820
1800
1780
1760
1740

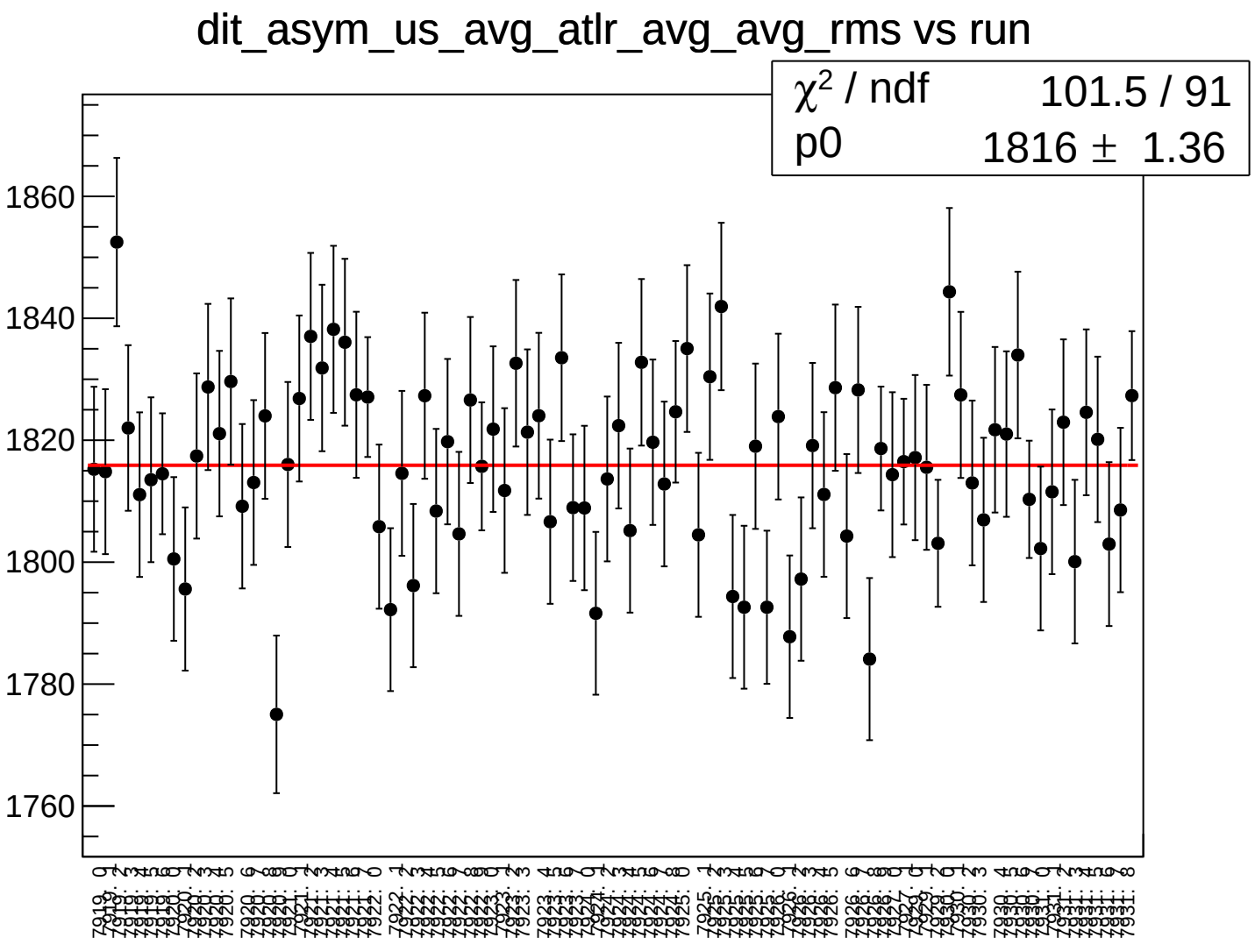

asym_us_avg_atlr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 97.93 / 91
p0 1.062e+04 ± 8199
pull
Entries 92
Mean −284
Std Dev 0

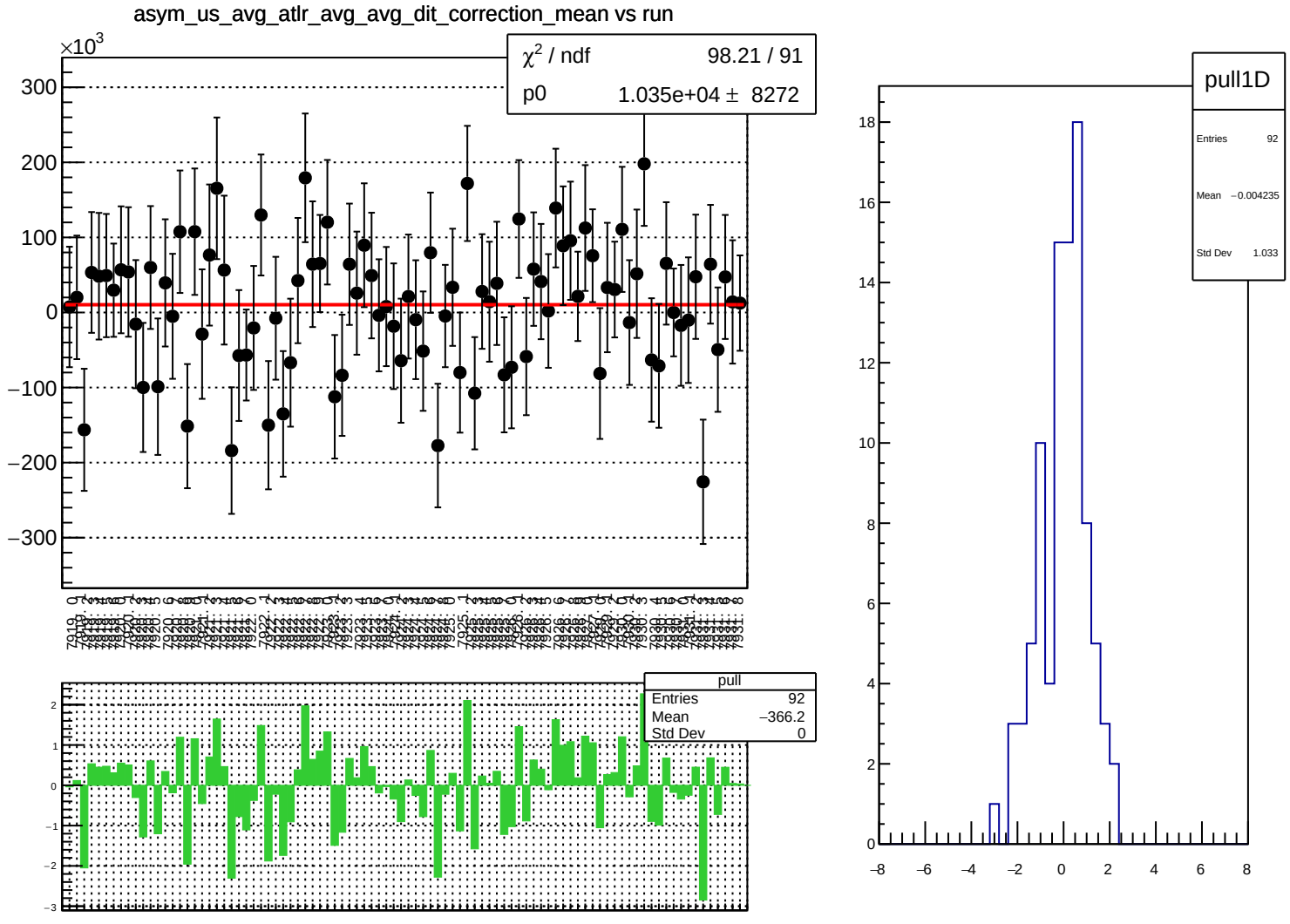

pull1D
Entries 92
Mean −0.00559
Std Dev 1.032

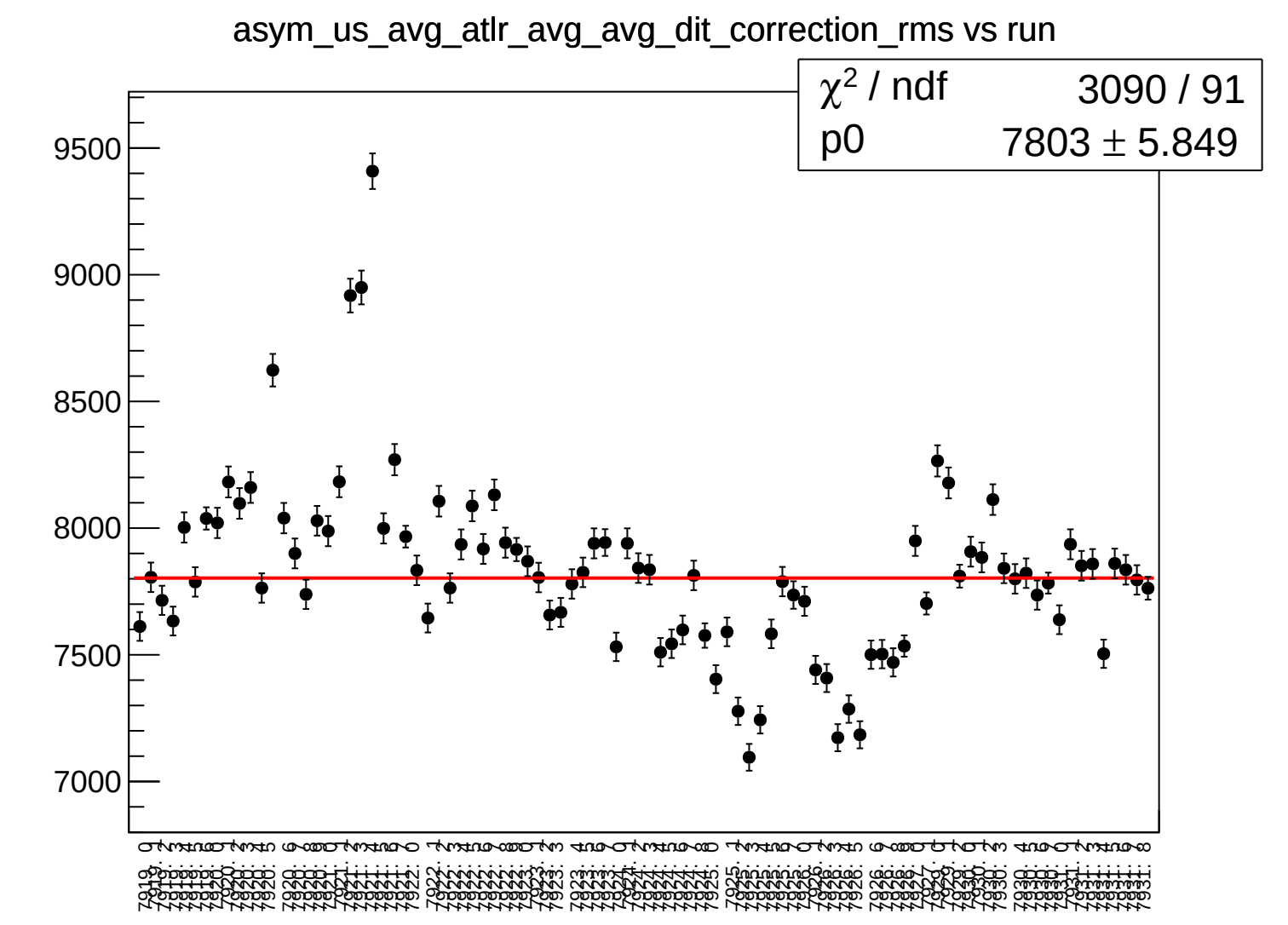

asym_us_avg_atlr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 4135 / 91
p0 7732 ± 5.797
9500
9000
8500
8000
7500
7000

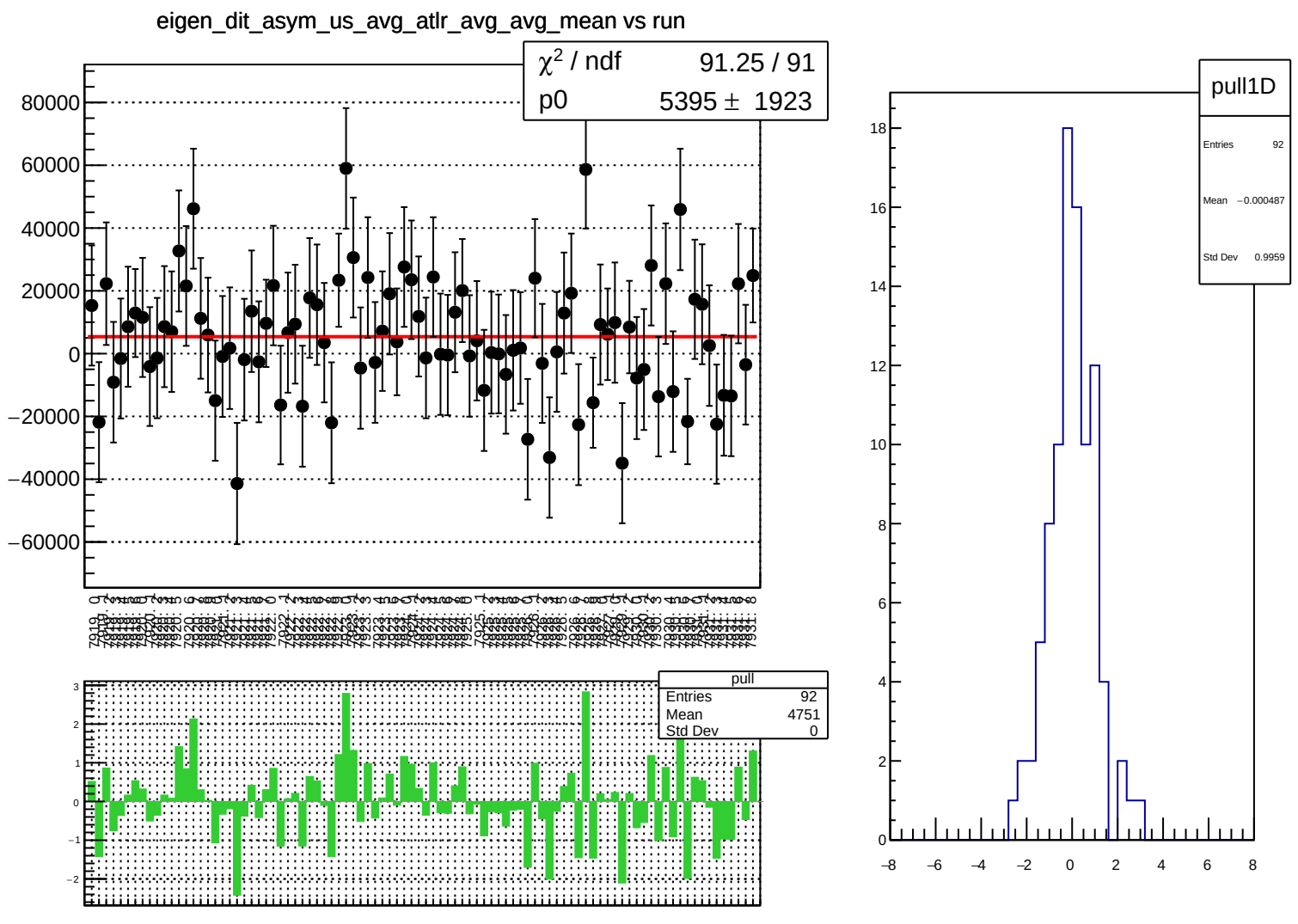

dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 91.25 / 91
p0 5395 ± 1923
pull
Entries 92
Mean 4751
Std Dev 0

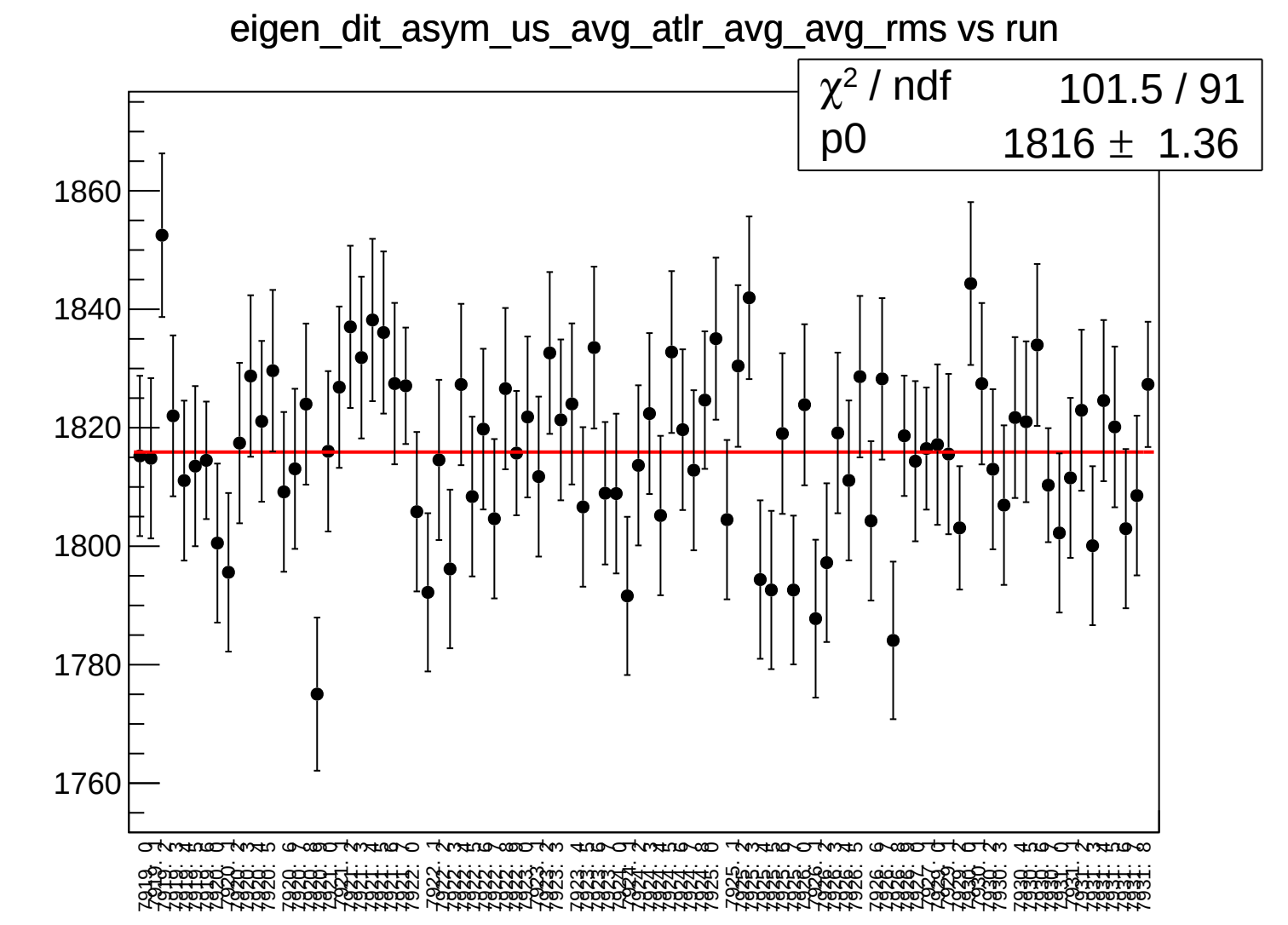

pull1D
Entries 92
Mean −0.0004869
Std Dev 0.9959

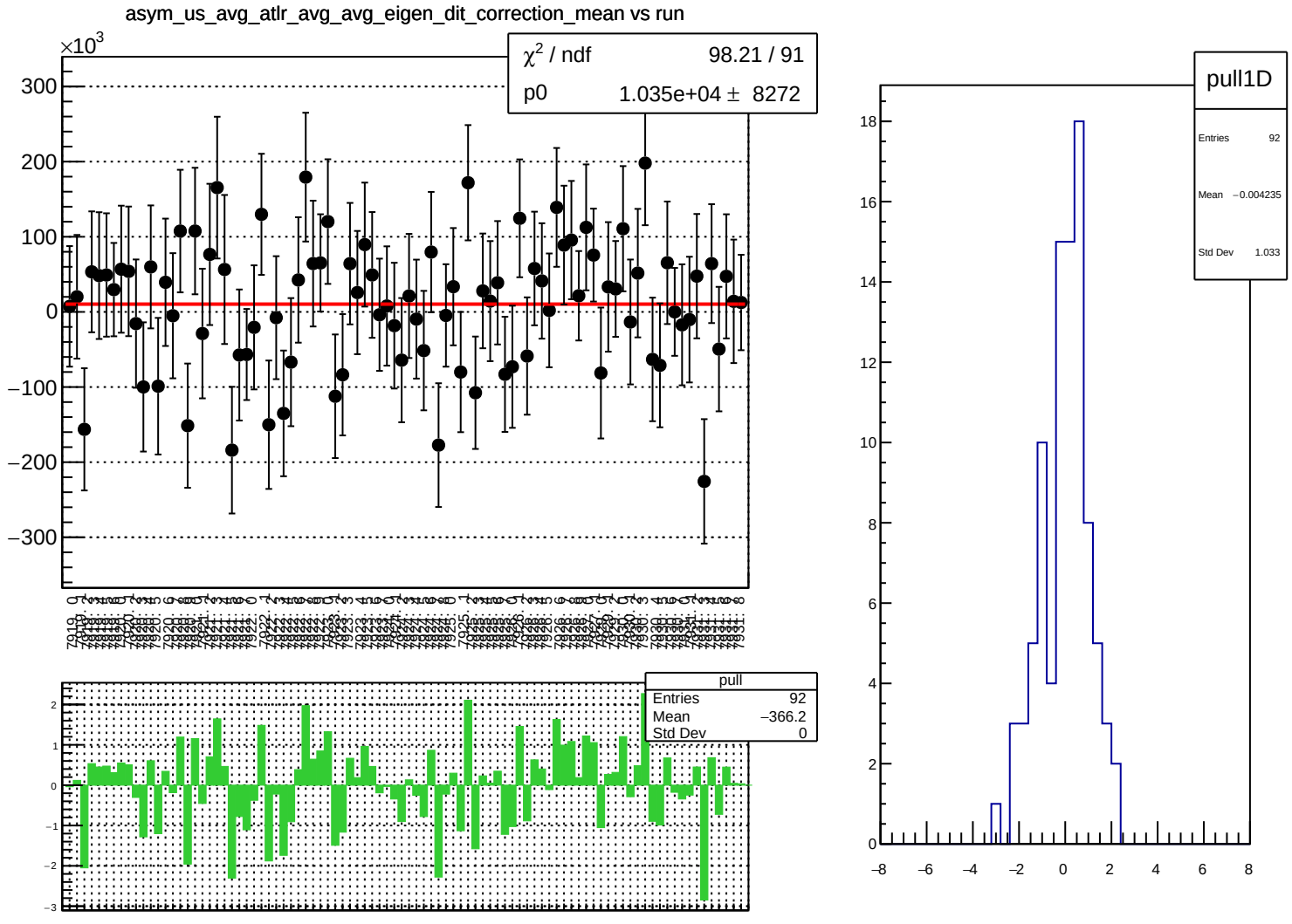

dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 101.5 / 91
p0 1816 ± 1.36
1860
1840
1820
1800
1780
1760

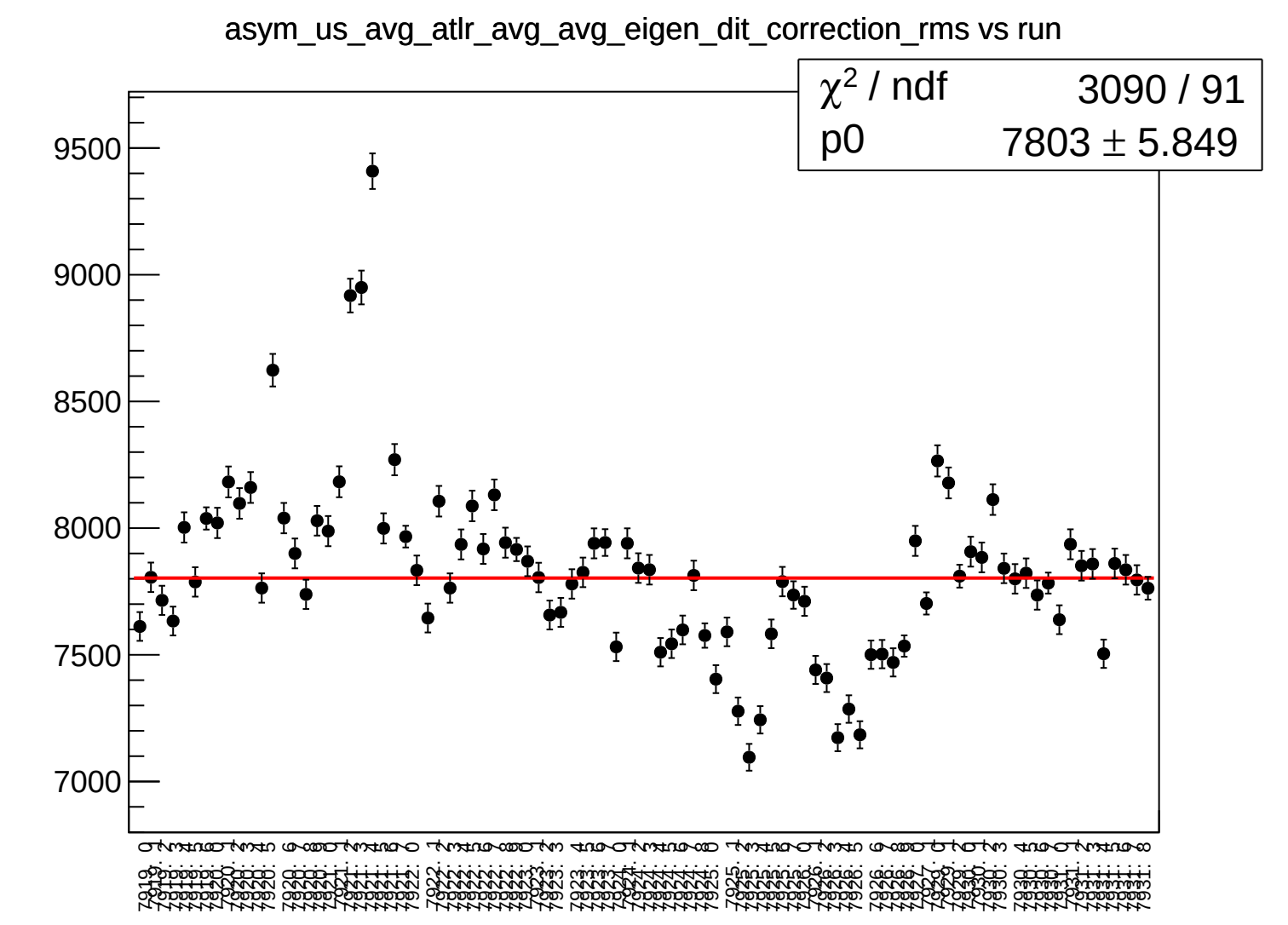

asym_us_avg_atlr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 98.21 / 91
p0 1.035e+04 ± 8272
pull
Entries 92
Mean −366.2
Std Dev 0
pull1D
Entries 92
Mean −0.004235
Std Dev 1.033

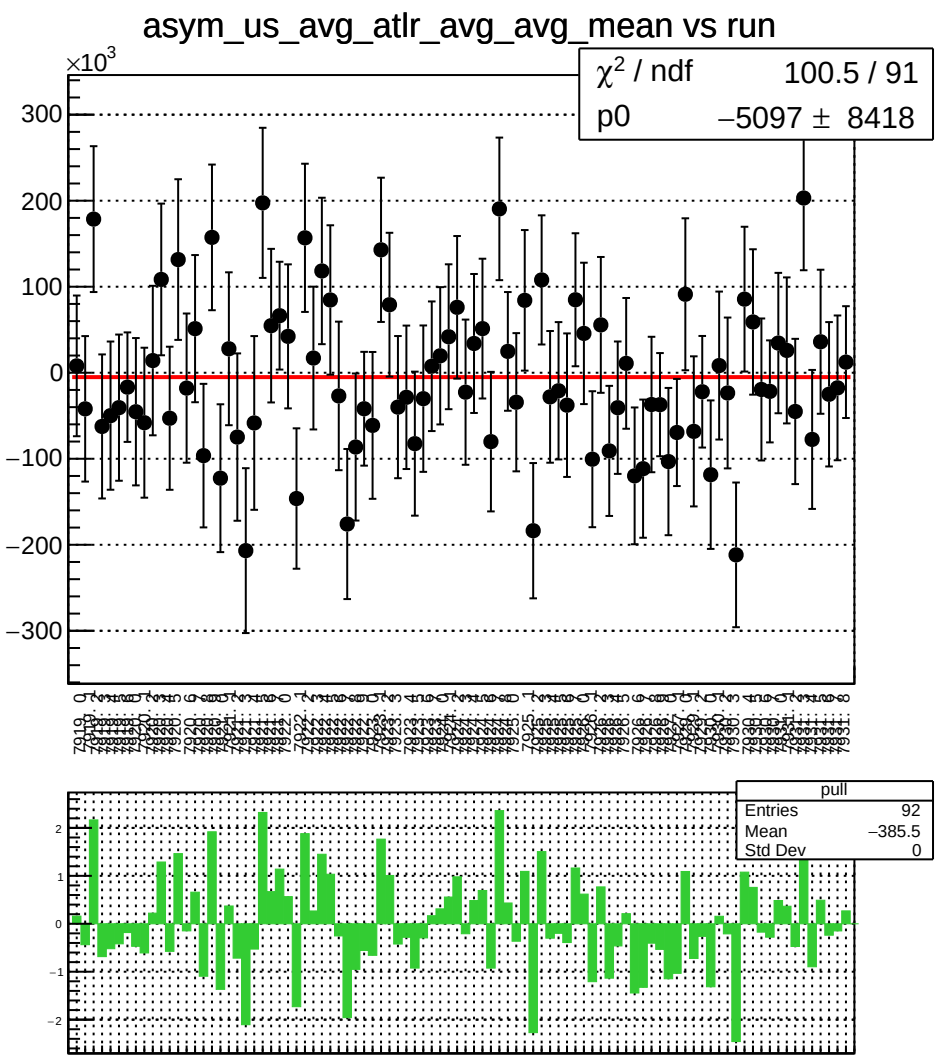

asym_us_avg_atlr_avg_avg_dit_correction_rms vs run
χ² / ndf 3090 / 91
p0 7803 ± 5.849
9500
9000
8500
8000
7500
7000

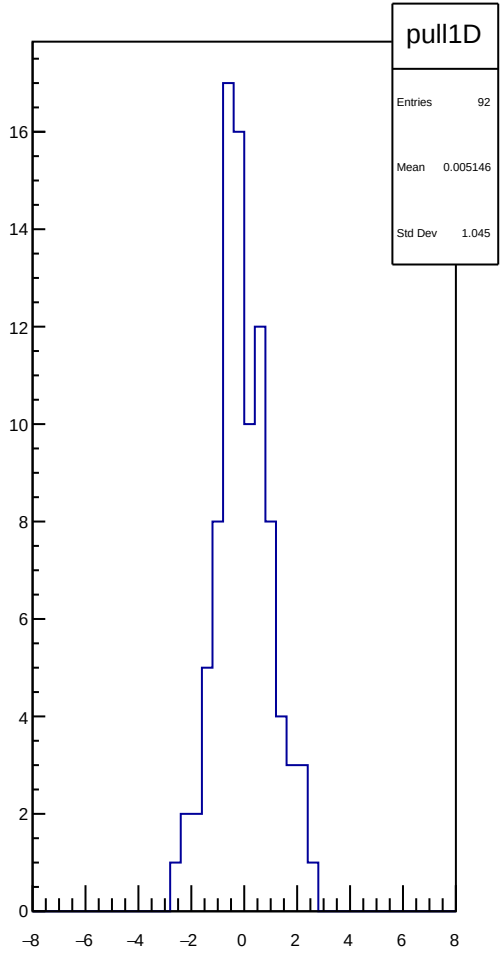

eigen_dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 91.25 / 91
p0 5395 ± 1923
pull
Entries 92
Mean 4751
Std Dev 0
pull1D
Entries 92
Mean −0.000487
Std Dev 0.9959

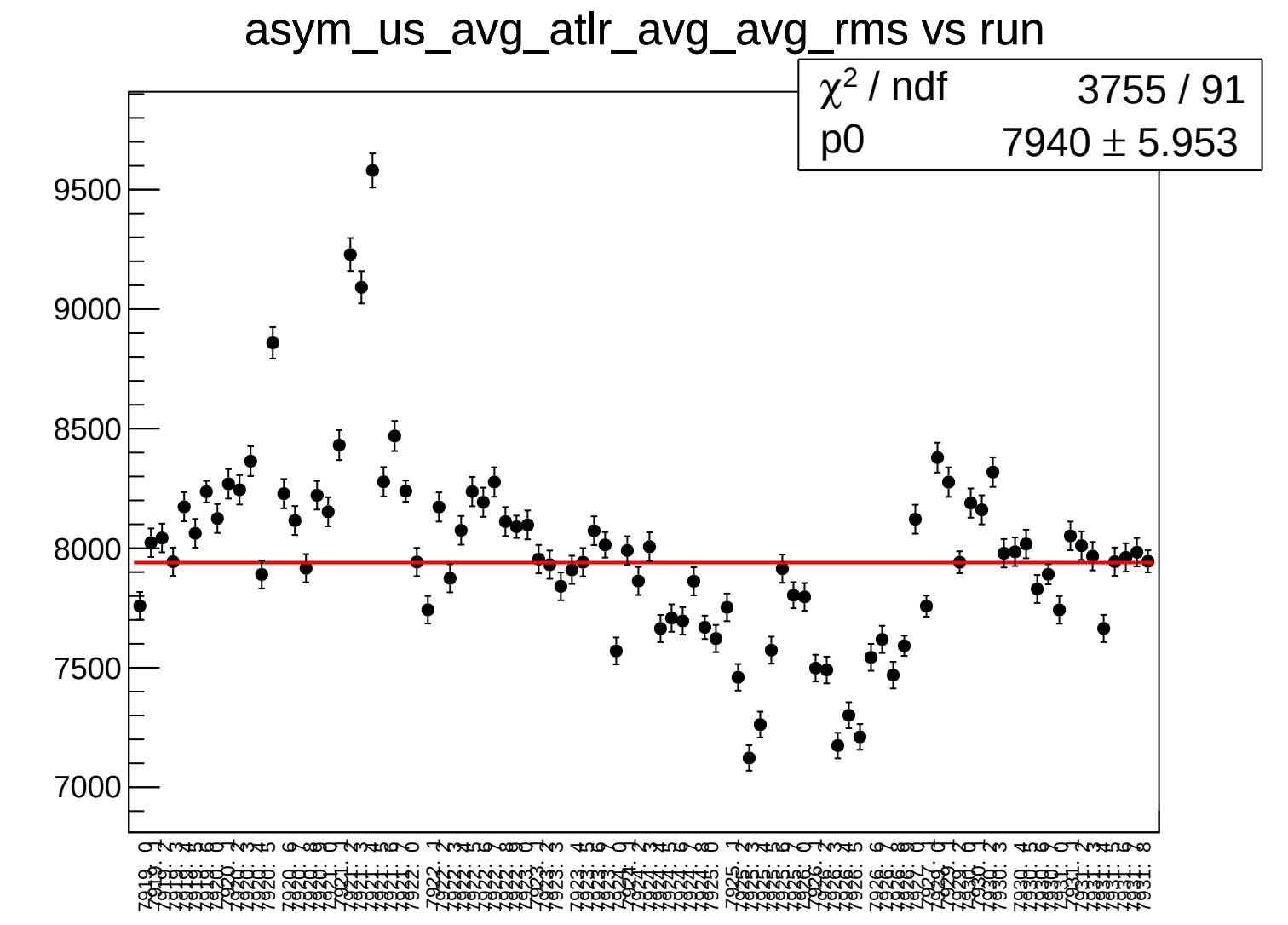

eigen_dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 101.5 / 91
p0 1816 ± 1.36
1860
1840
1820
1800
1780
1760

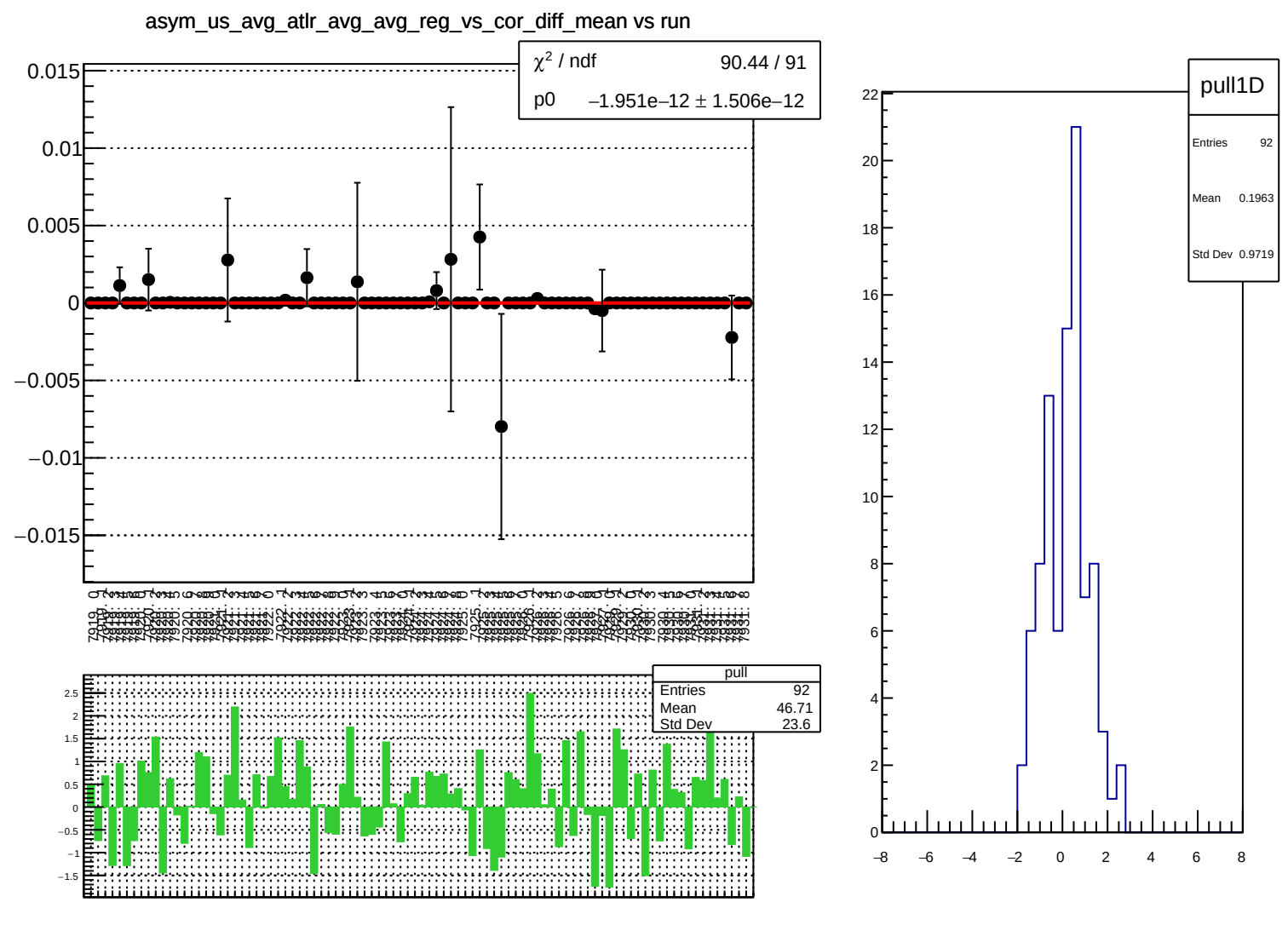

asym_us_avg_atlr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 98.21 / 91
p0 1.035e+04 ± 8272
pull
Entries 92
Mean −366.2
Std Dev 0
pull1D
Entries 92
Mean −0.004235
Std Dev 1.033

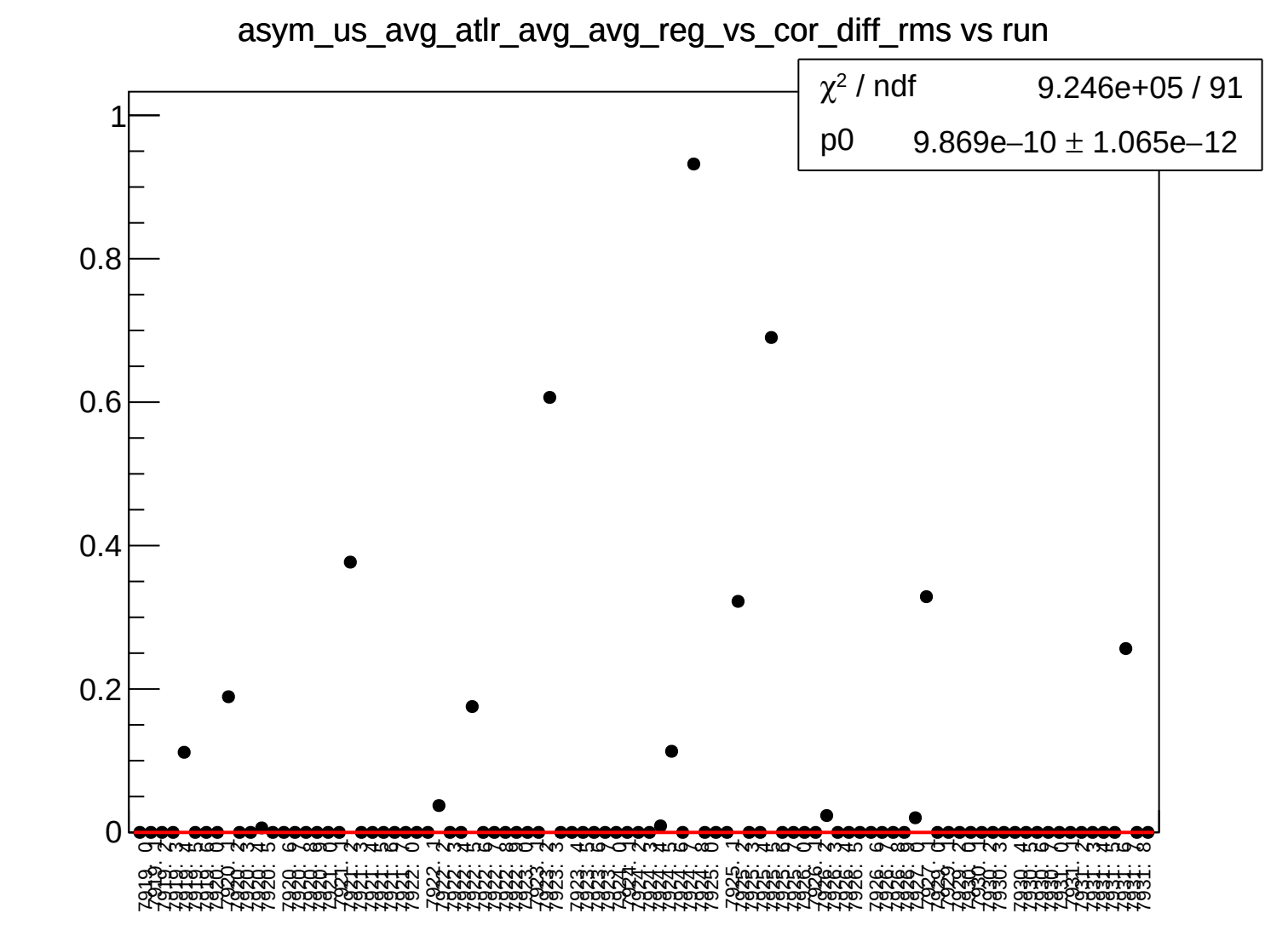

asym_us_avg_atlr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 3090 / 91
p0 7803 ± 5.849
9500
9000
8500
8000
7500
7000

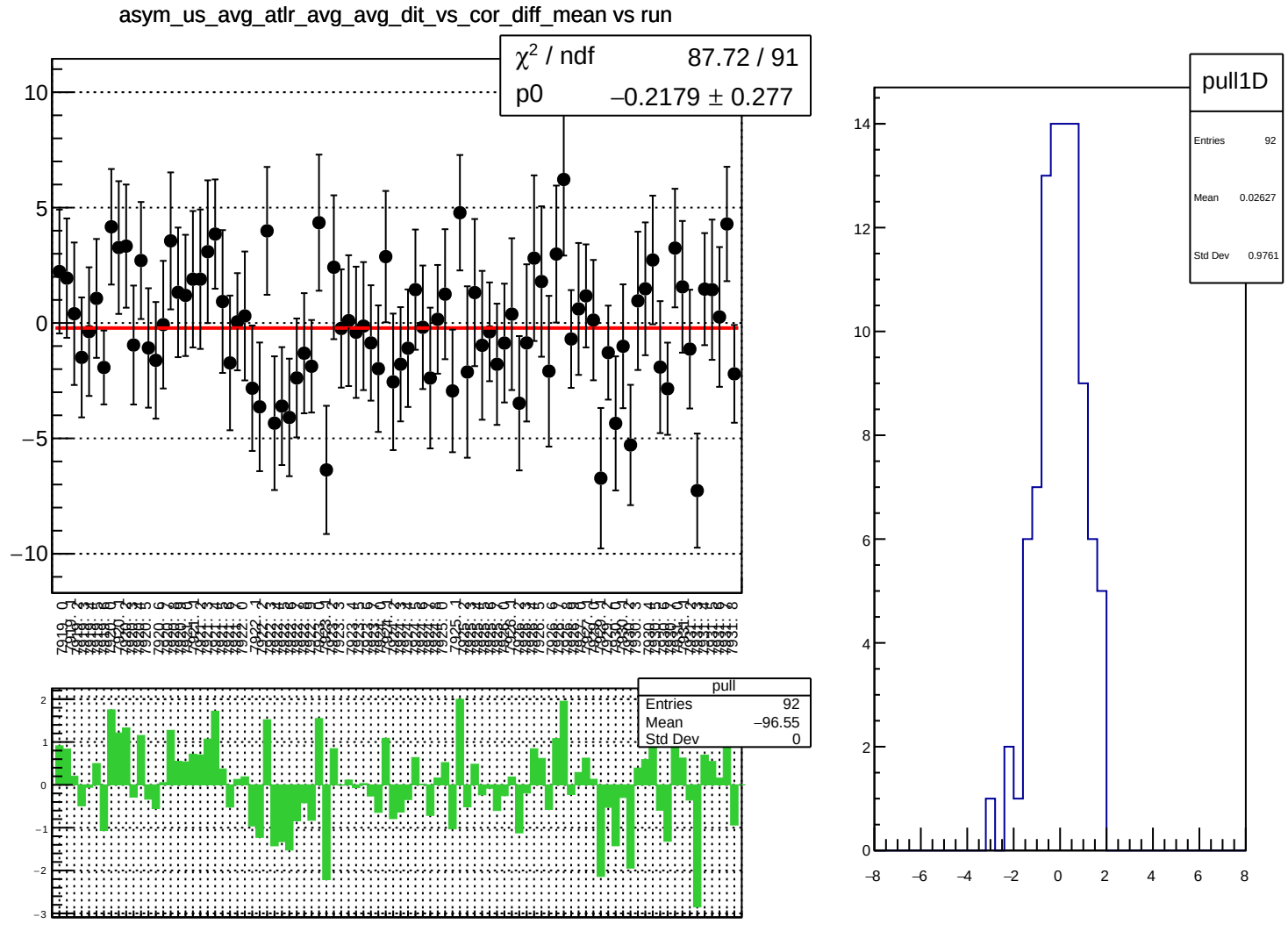

asym_us_avg_atlr_avg_avg_mean vs run
×10^3
χ² / ndf 100.5 / 91
p0 −5097 ± 8418
300
200
100
0
−100
−200
−300
pull
Entries 92
Mean −385.5
Std Dev 0
2
1
0
−1
−2

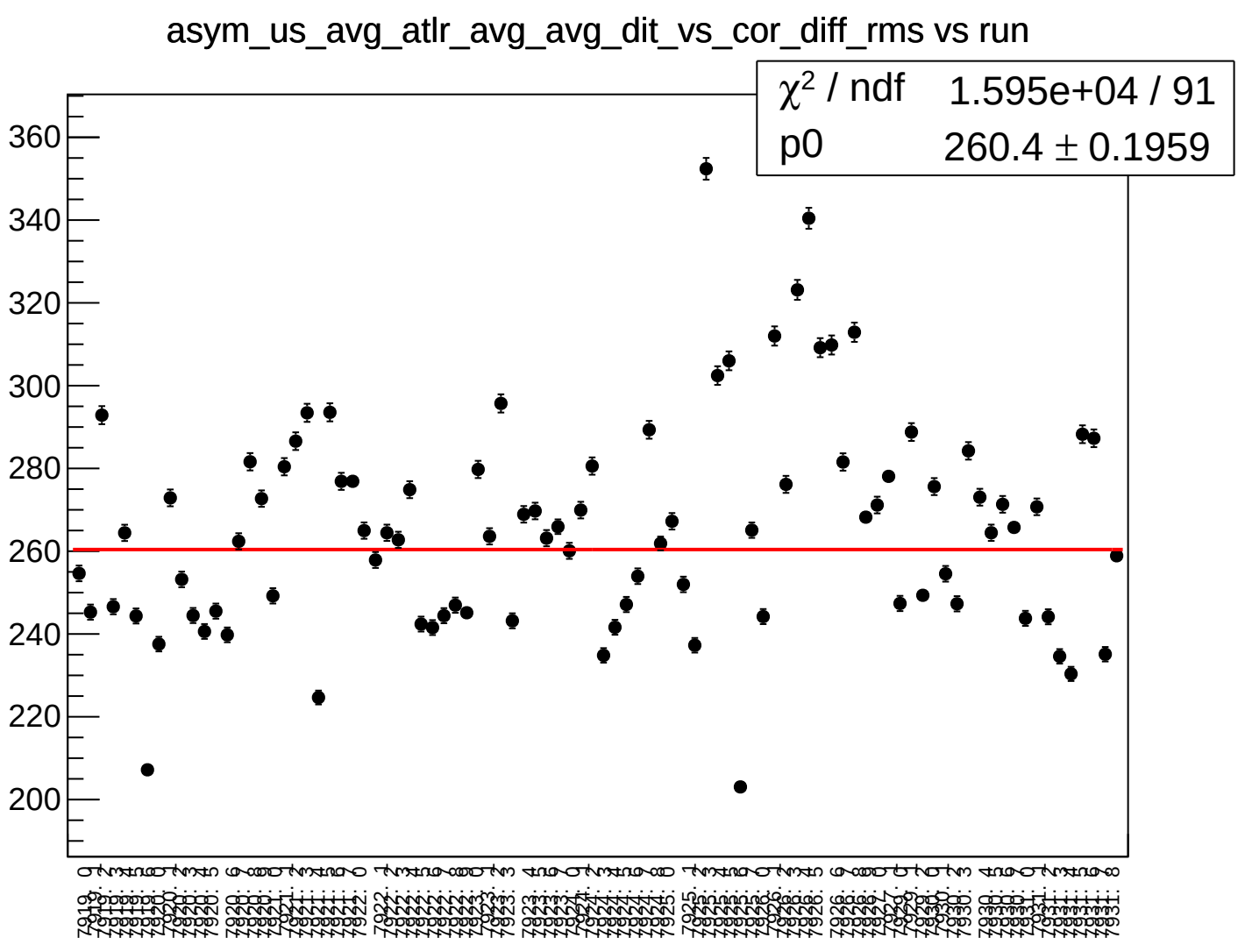

pull1D
Entries 92
Mean 0.005146
Std Dev 1.045
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

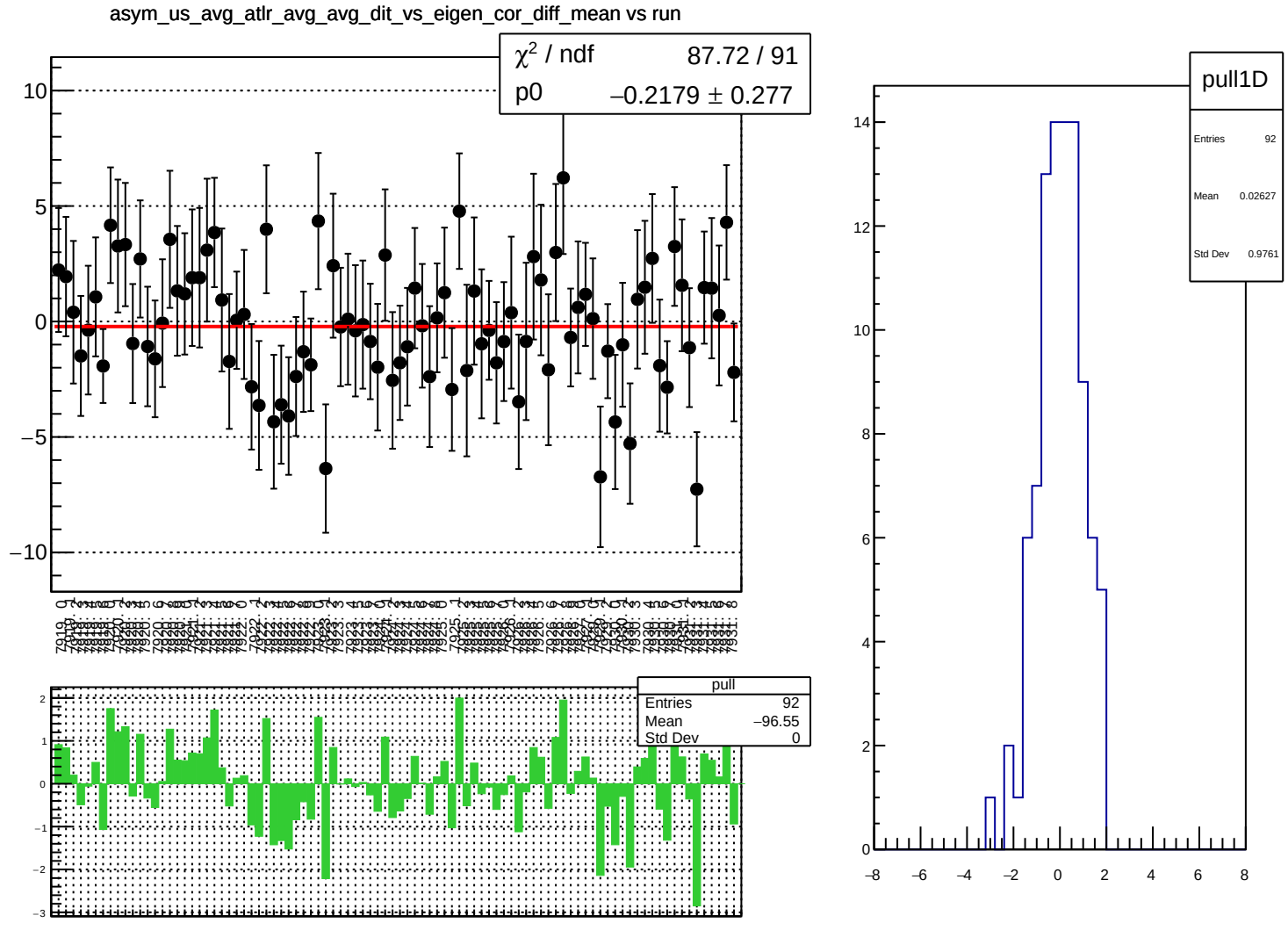

asym_us_avg_atlr_avg_avg_rms vs run
χ^2 / ndf 3755 / 91
p0 7940 ± 5.953
9500
9000
8500
8000
7500
7000

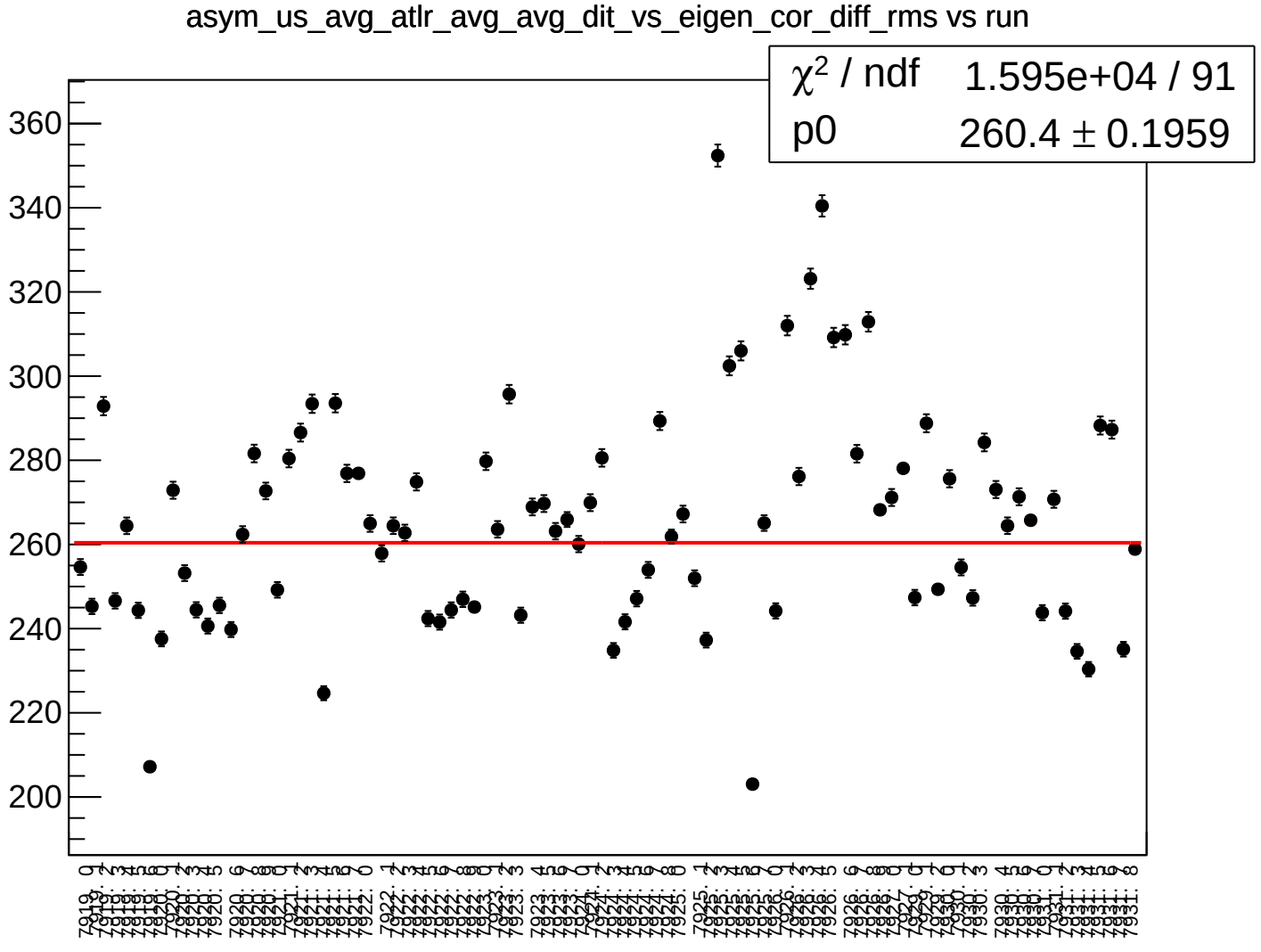

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 90.44 / 91
p0 −1.951e−12 ± 1.506e−12
pull
Entries 92
Mean 46.71
Std Dev 23.6
pull1D
Entries 92
Mean 0.1963
Std Dev 0.9719

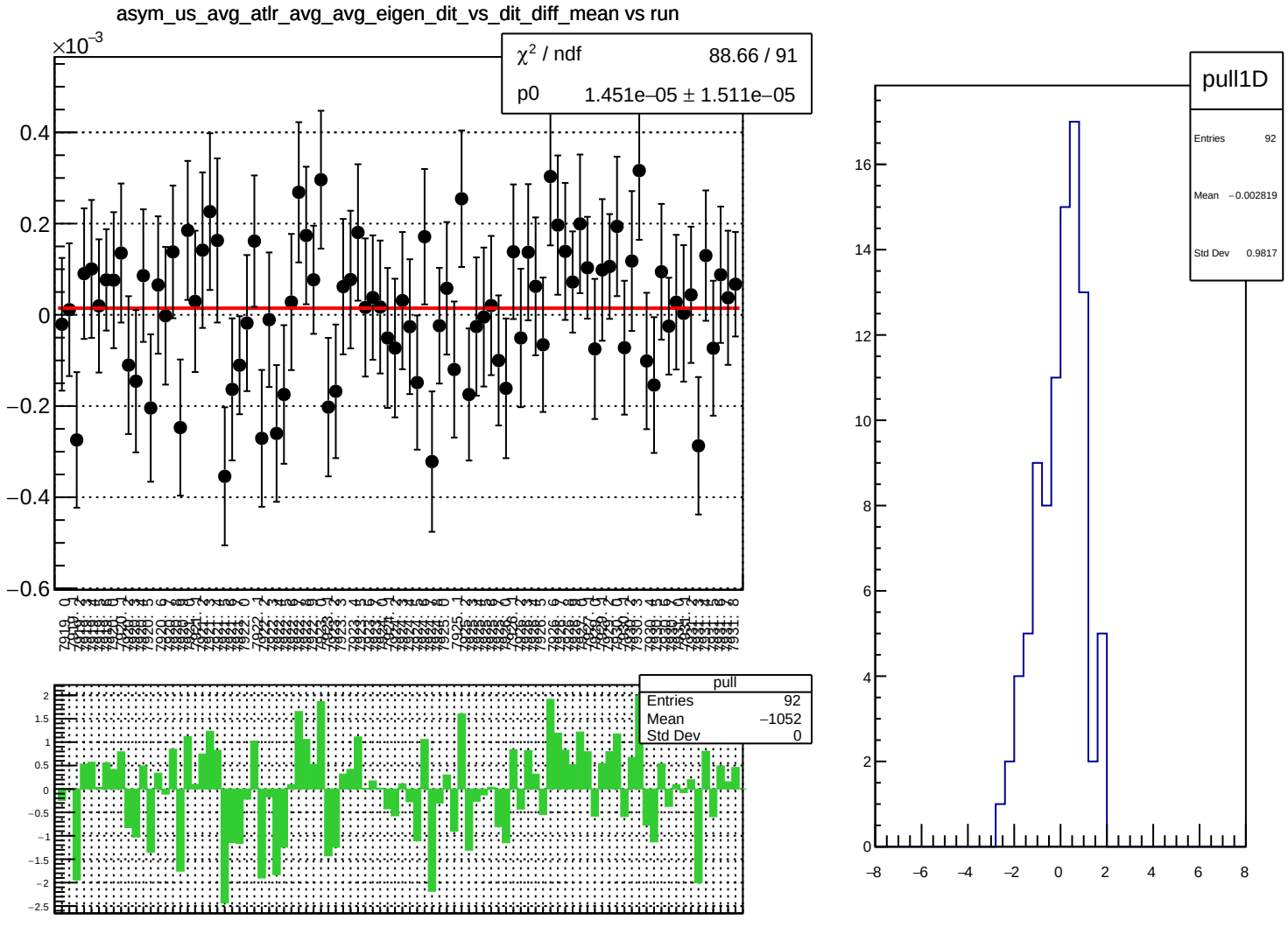

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.246e+05 / 91
p0 9.869e−10 ± 1.065e−12
1
0.8
0.6
0.4
0.2
0

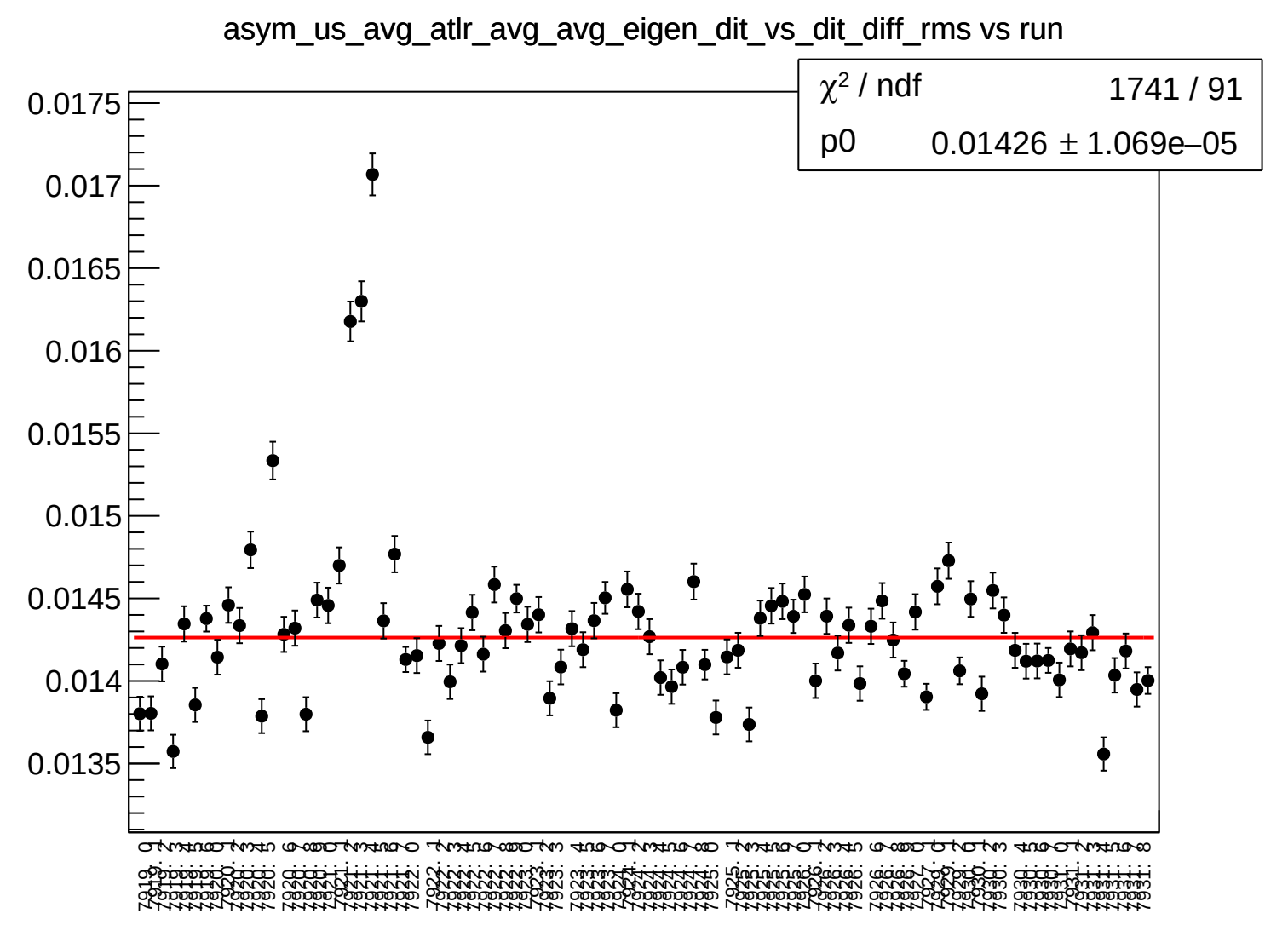

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 87.72 / 91
p0 −0.2179 ± 0.277
pull
Entries 92
Mean −96.55
Std Dev 0
pull1D
Entries 92
Mean 0.02627
Std Dev 0.9761

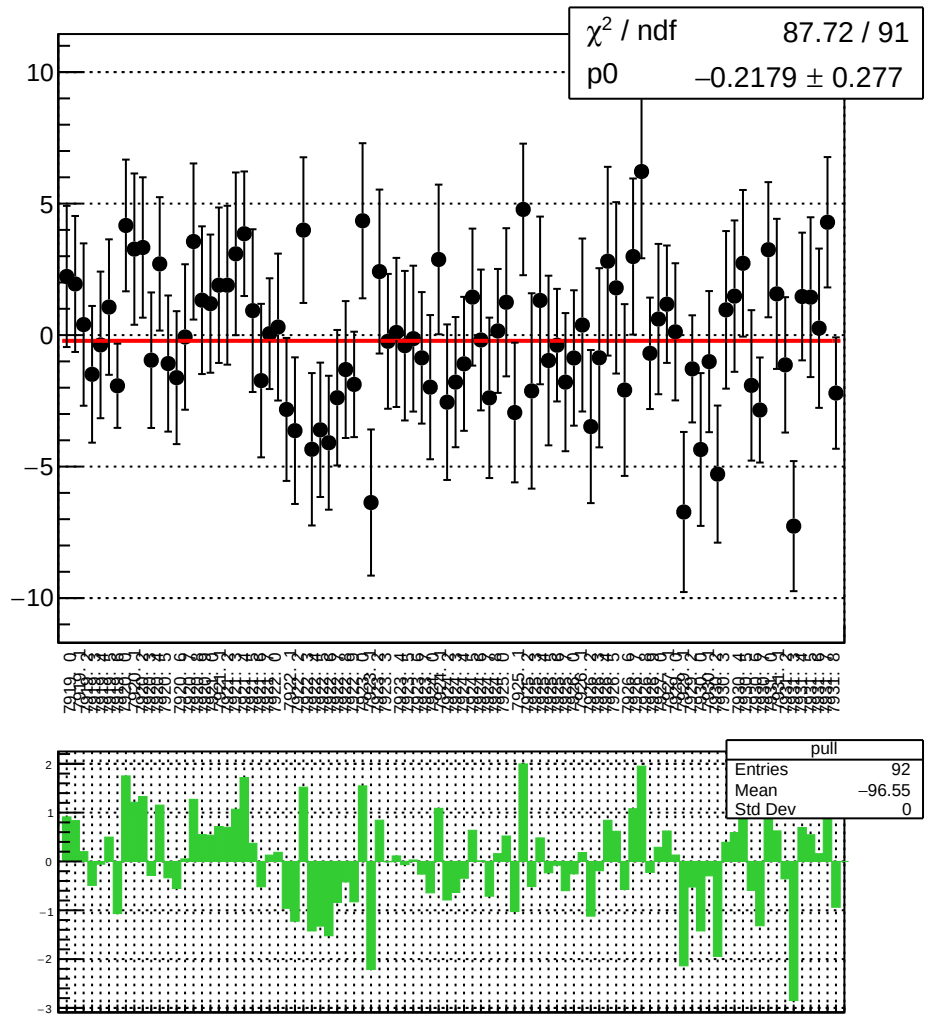

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.595e+04 / 91
p0 260.4 ± 0.1959
360
340
320
300
280
260
240
220
200

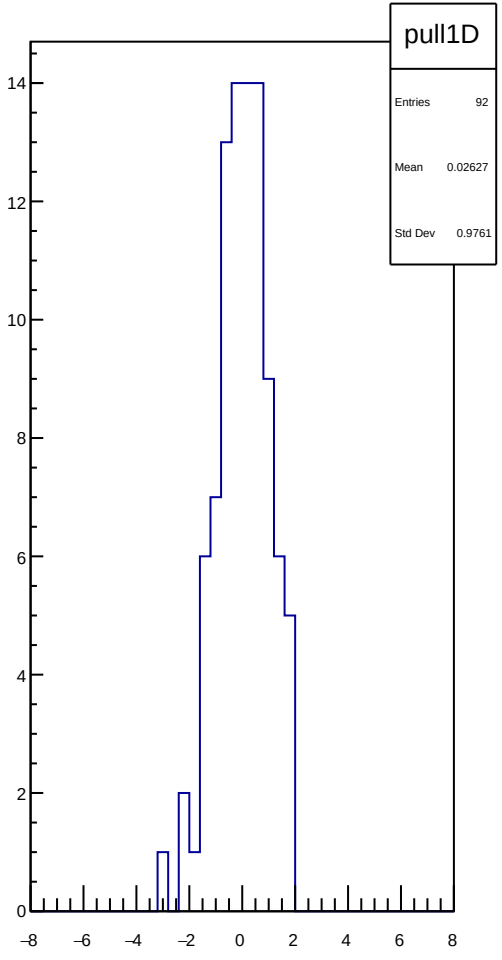

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.72 / 91
p0 −0.2179 ± 0.277
pull
Entries 92
Mean −96.55
Std Dev 0
pull1D
Entries 92
Mean 0.02627
Std Dev 0.9761

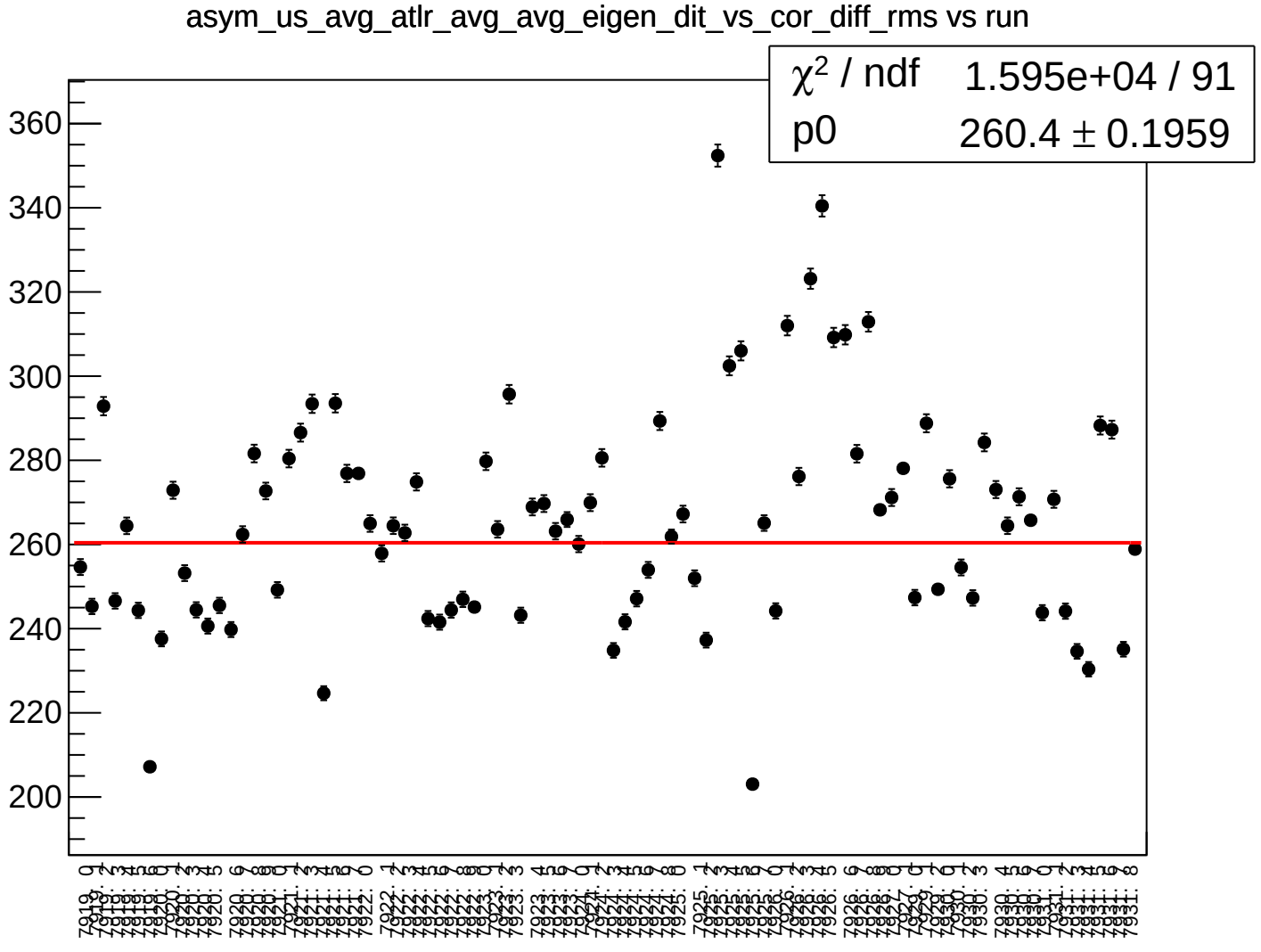

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.595e+04 / 91
p0 260.4 ± 0.1959
360
340
320
300
280
260
240
220
200

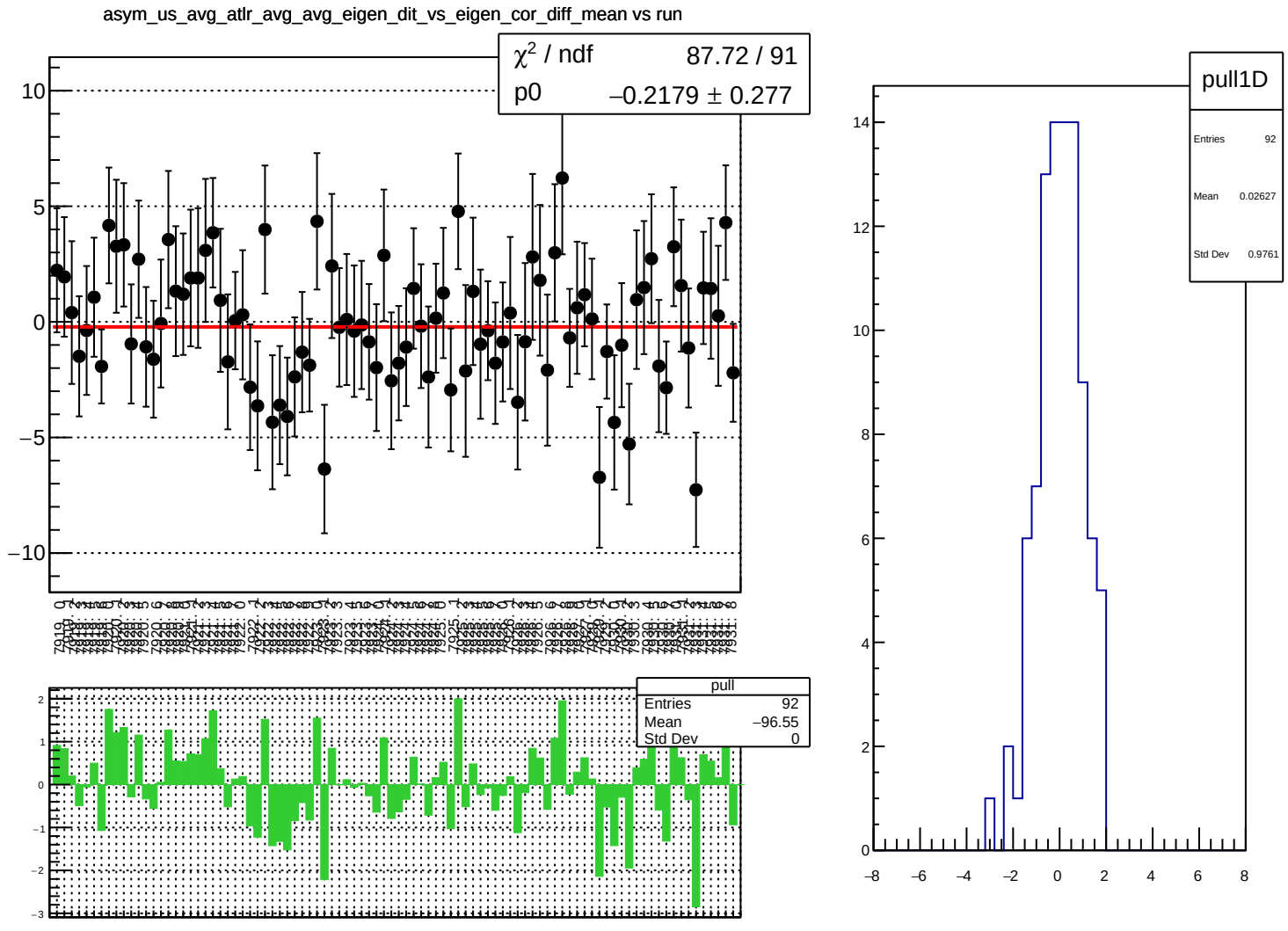

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.66 / 91
p0 1.451e−05 ± 1.511e−05
pull
Entries 92
Mean −1052
Std Dev 0
pull1D
Entries 92
Mean −0.002819
Std Dev 0.9817

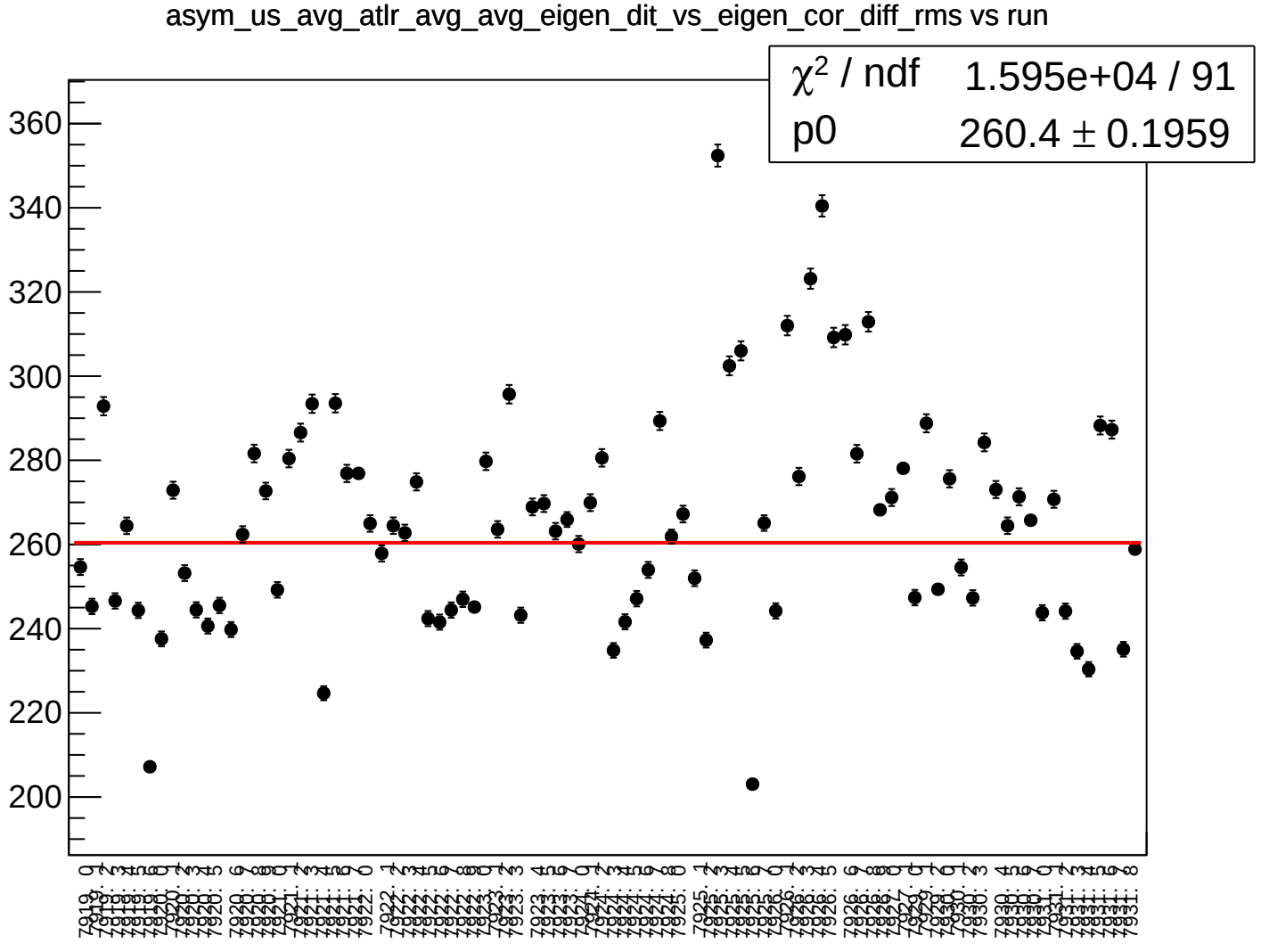

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1741 / 91
p0 0.01426 ± 1.069e−05
0.0175
0.017
0.0165
0.016
0.0155
0.015
0.0145
0.014
0.0135

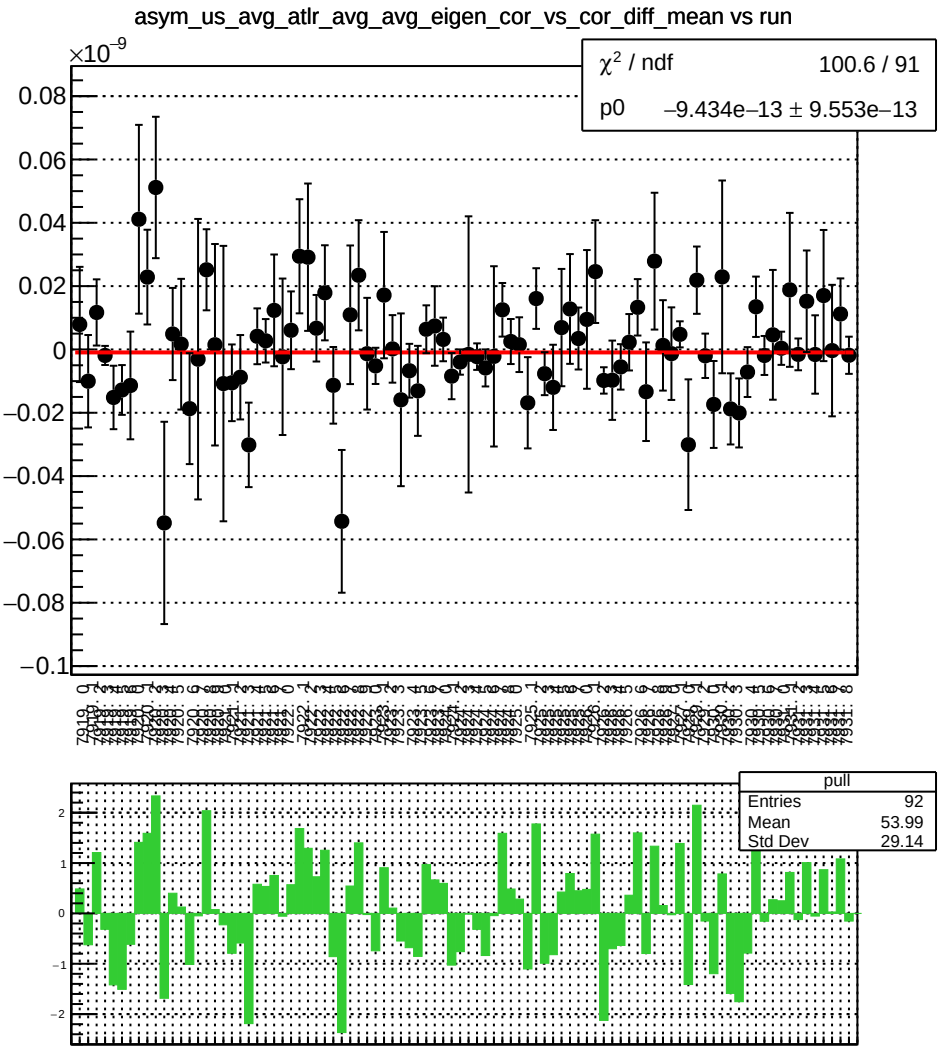

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.72 / 91
p0 −0.2179 ± 0.277
pull
Entries 92
Mean −96.55
Std Dev 0

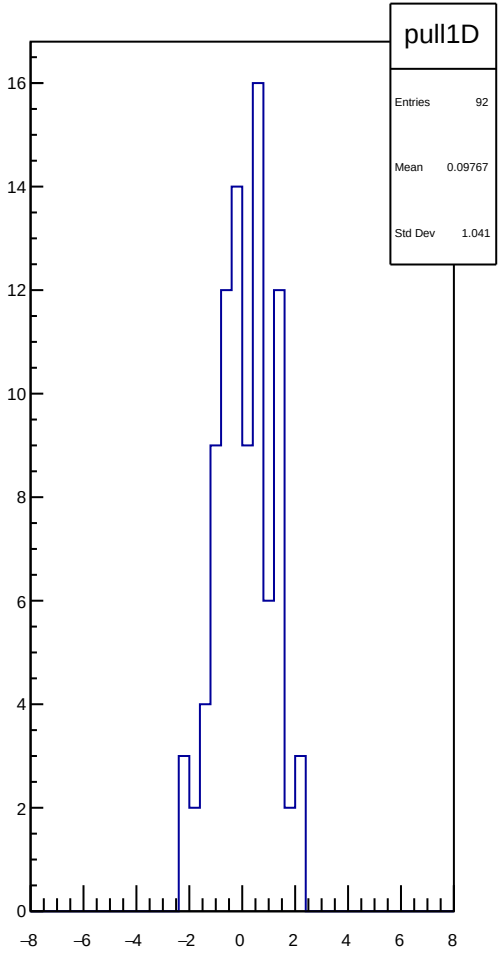

pull1D
Entries 92
Mean 0.02627
Std Dev 0.9761

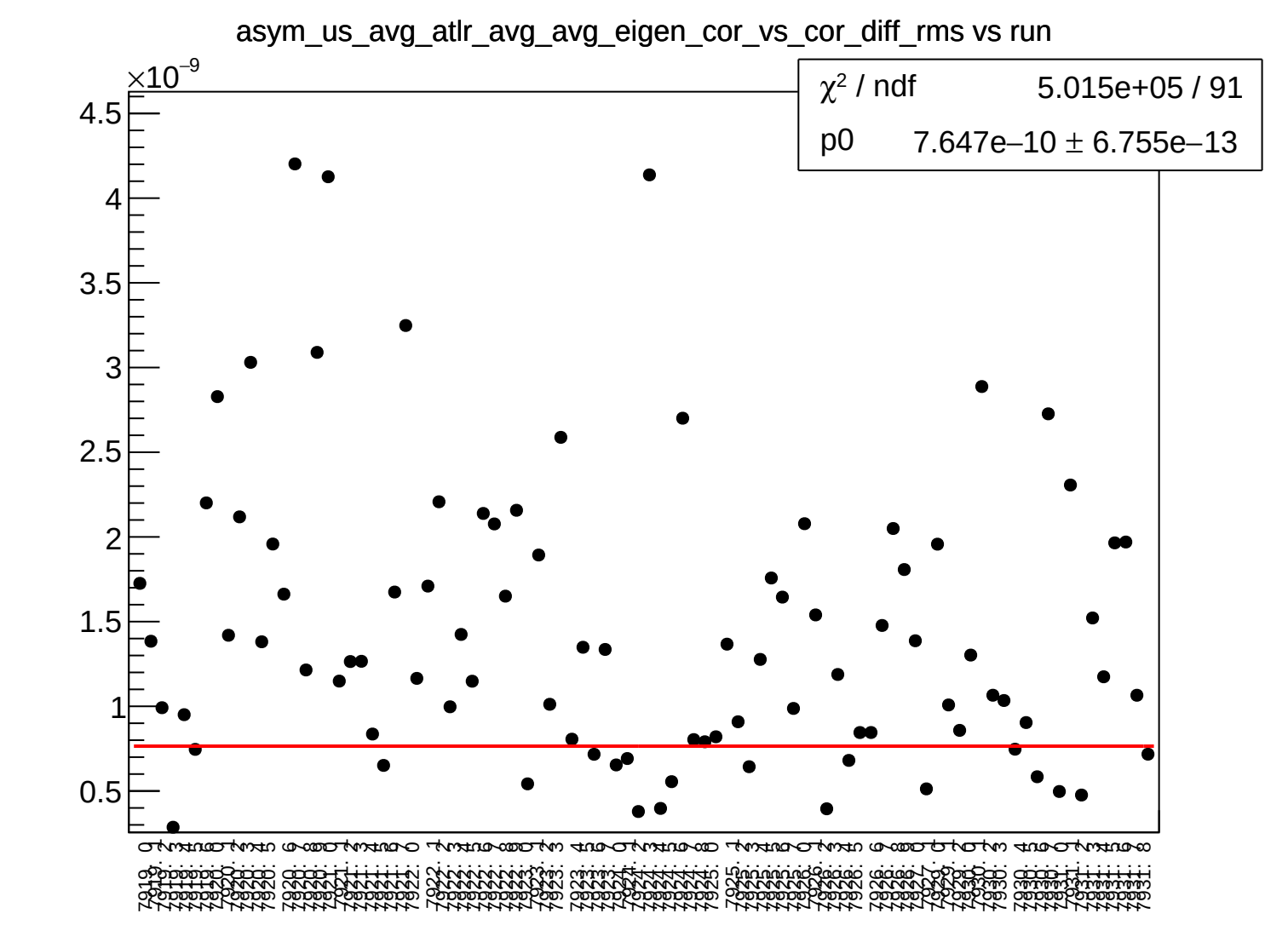

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.595e+04 / 91
p0 260.4 ± 0.1959
360
340
320
300
280
260
240
220
200

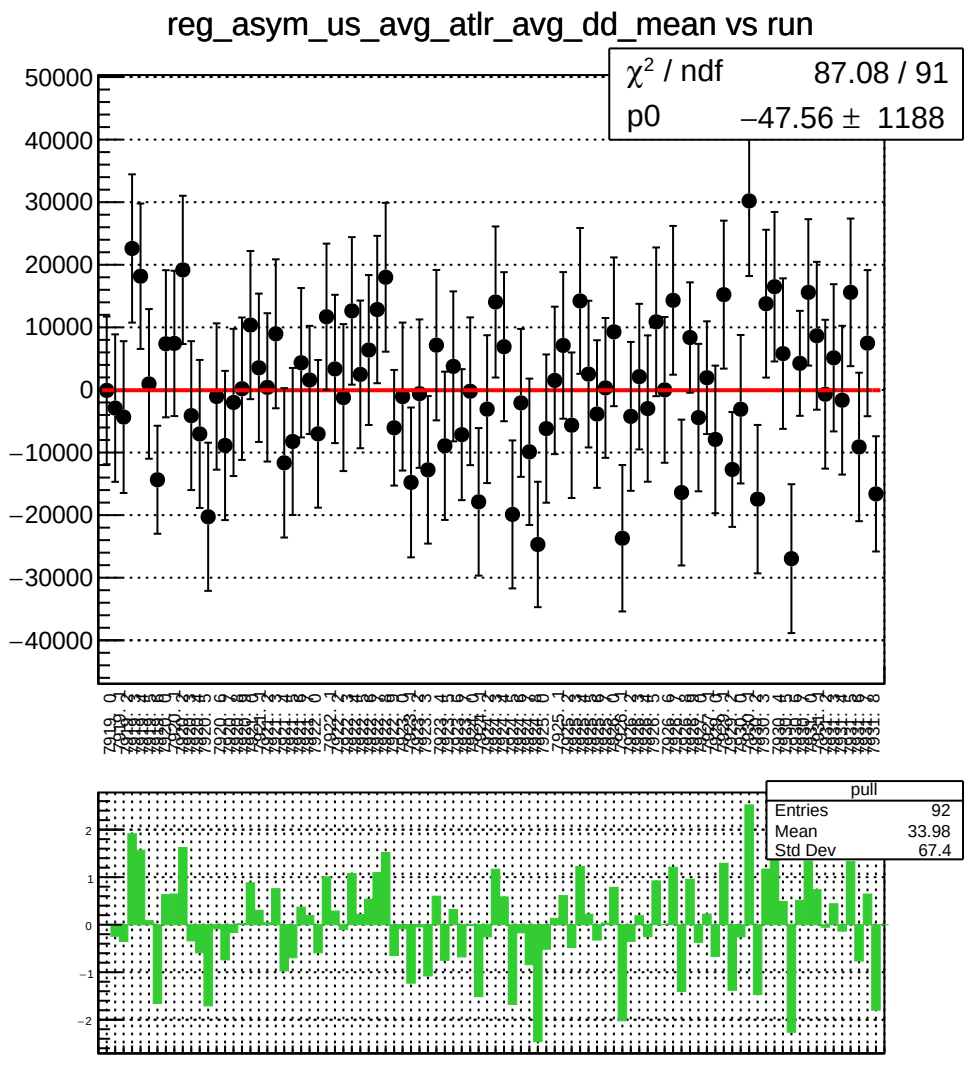

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.72 / 91
p0 −0.2179 ± 0.277
pull
Entries 92
Mean −96.55
Std Dev 0
pull1D
Entries 92
Mean 0.02627
Std Dev 0.9761

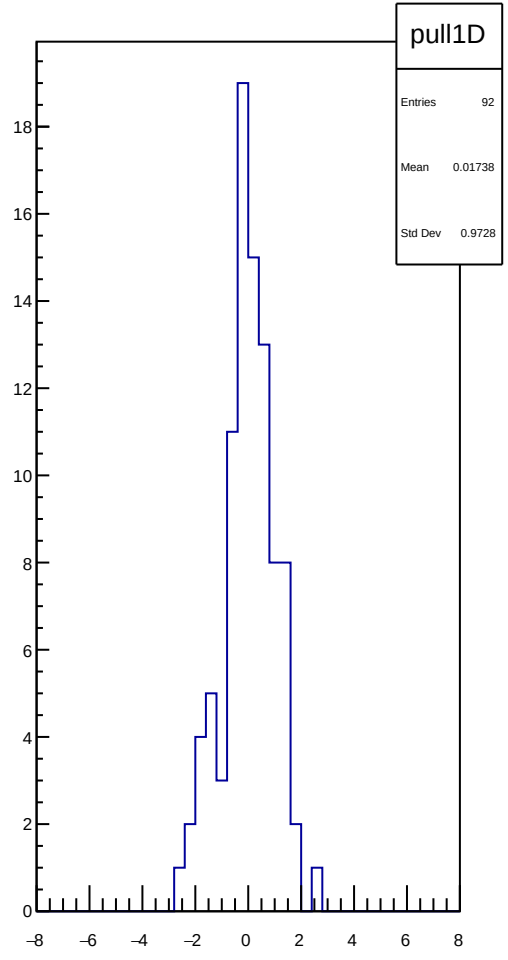

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.595e+04 / 91
p0 260.4 ± 0.1959
360
340
320
300
280
260
240
220
200

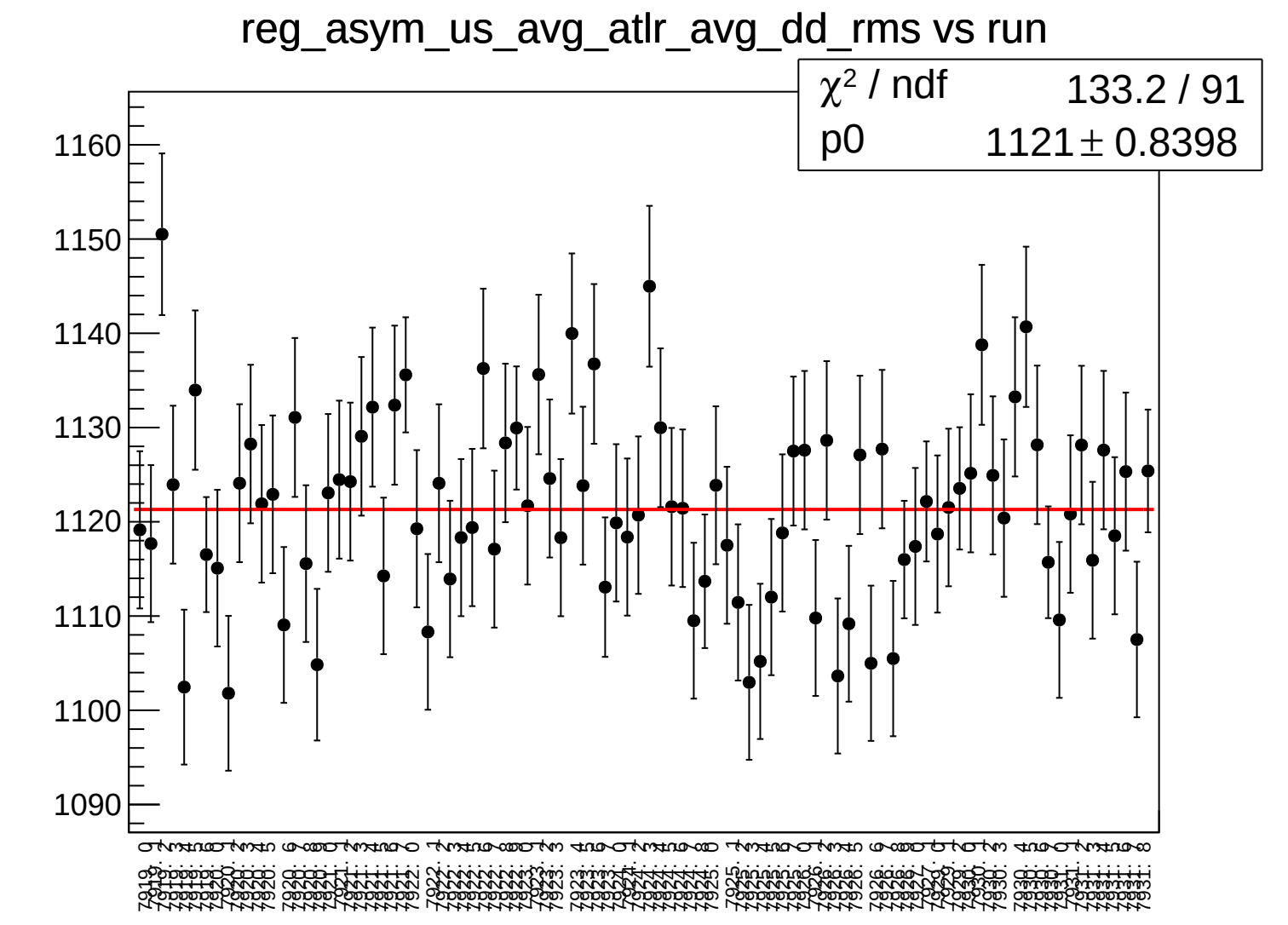

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 100.6 / 91
p0 −9.434e−13 ± 9.553e−13
pull
Entries 92
Mean 53.99
Std Dev 29.14

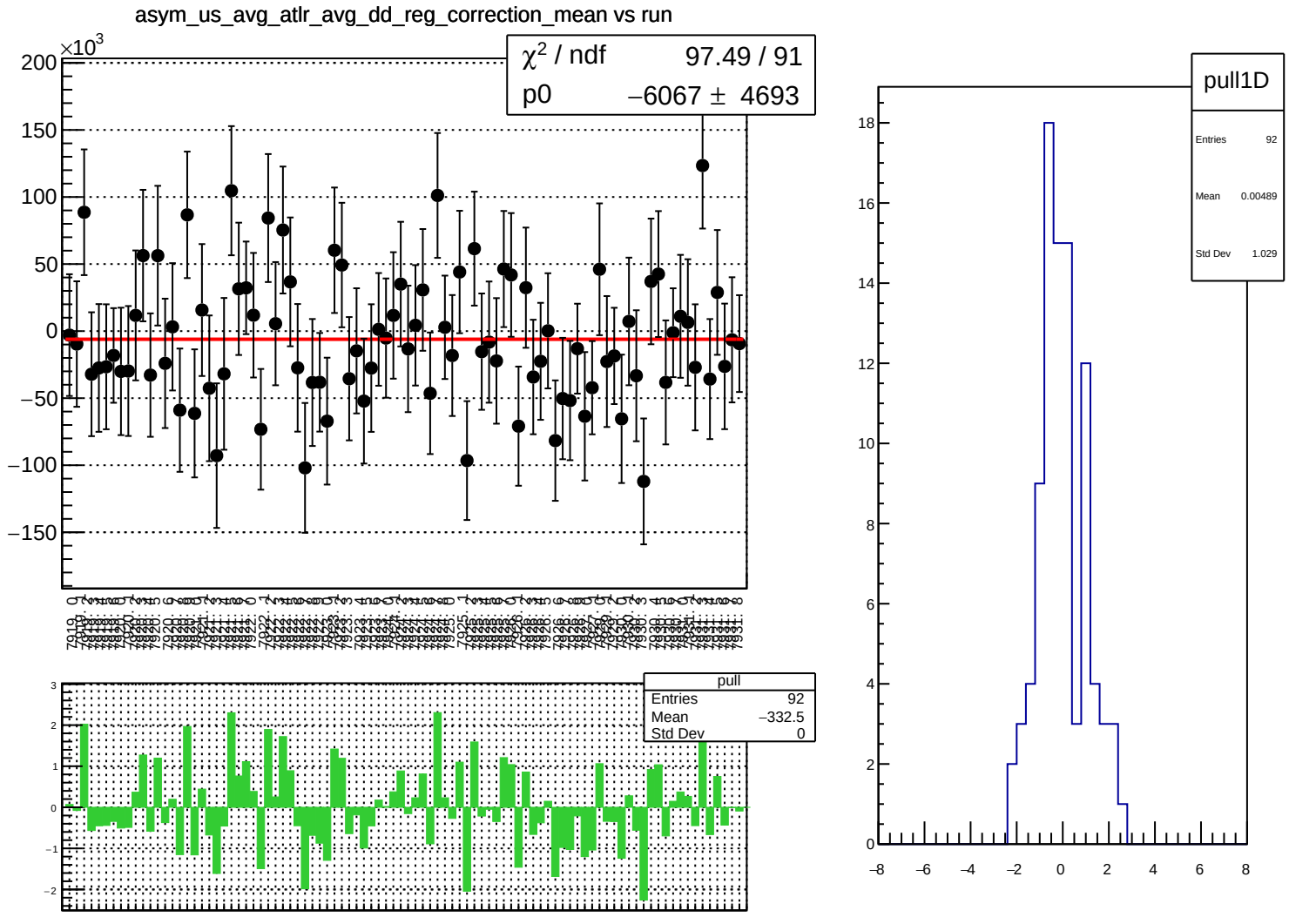

pull1D
Entries 92
Mean 0.09767
Std Dev 1.041

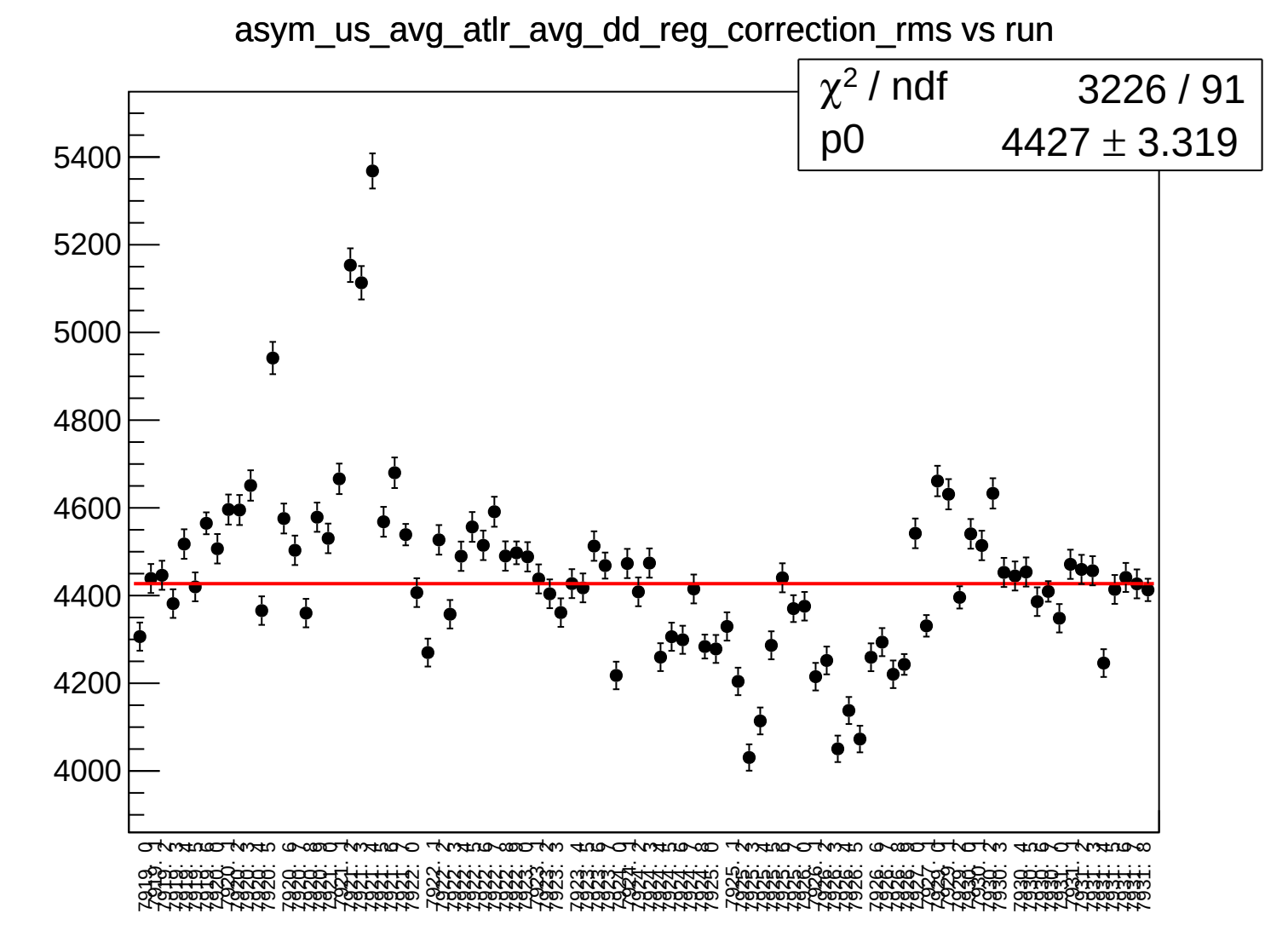

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.015e+05 / 91
p0 7.647e−10 ± 6.755e−13
4.5
4
3.5
3
2.5
2
1.5
1
0.5

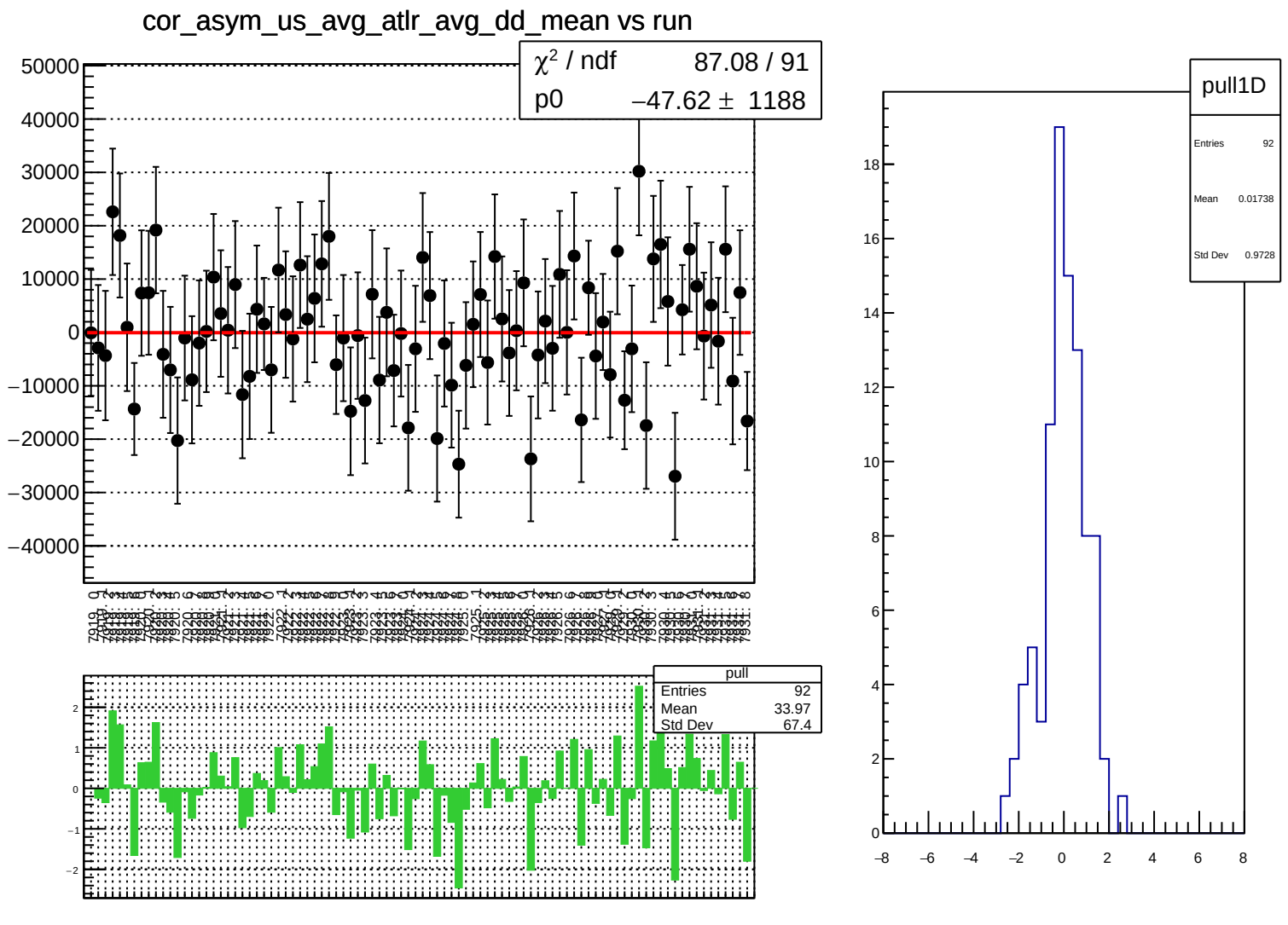

reg_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 87.08 / 91
p0 −47.56 ± 1188
pull
Entries 92
Mean 33.98
Std Dev 67.4

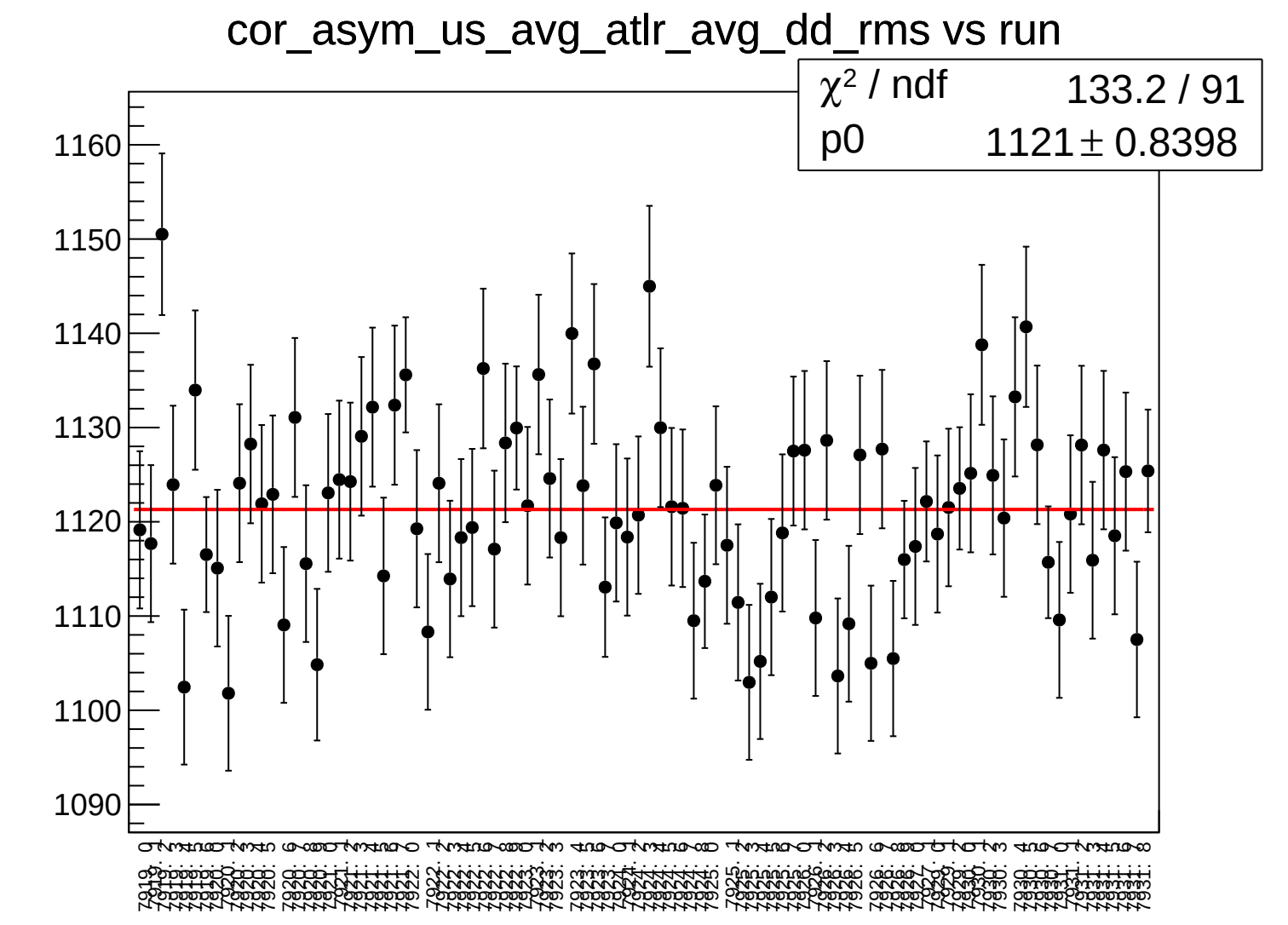

pull1D
Entries 92
Mean 0.01738
Std Dev 0.9728

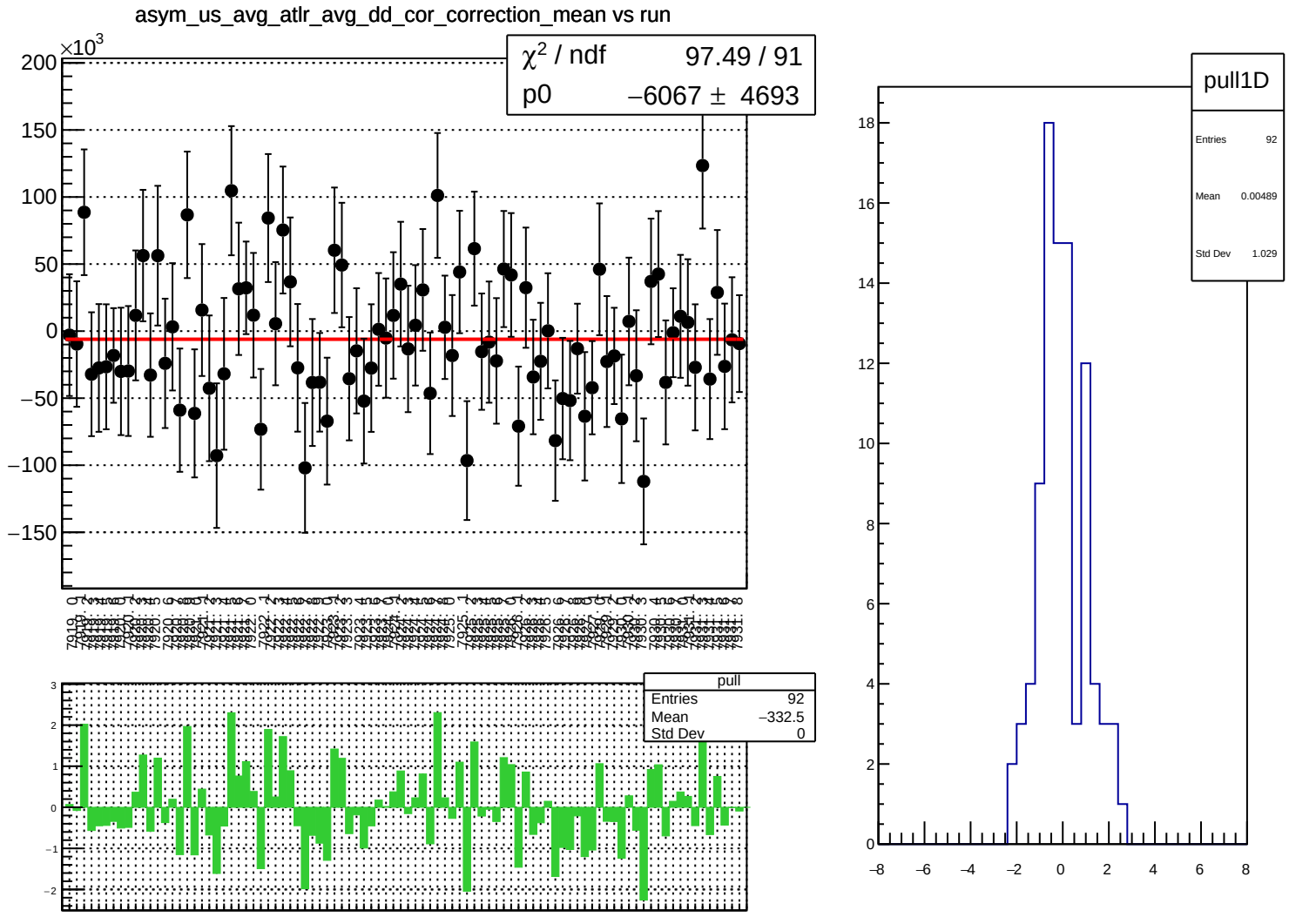

reg_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 133.2 / 91
p0 1121 ± 0.8398
1160
1150
1140
1130
1120
1110
1100
1090

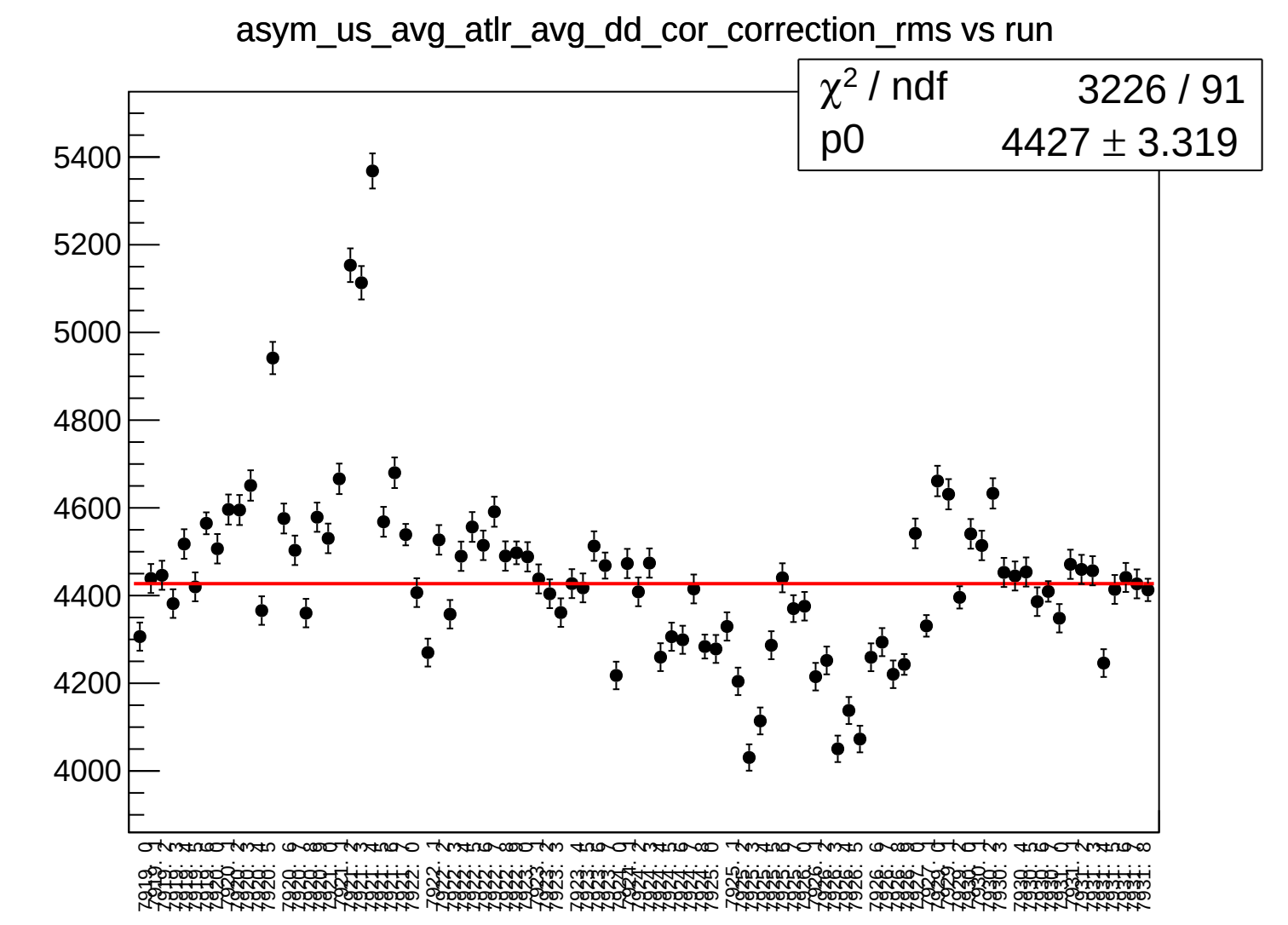

asym_us_avg_atlr_avg_dd_reg_correction_mean vs run
χ² / ndf 97.49 / 91
p0 −6067 ± 4693
×10³
pull
Entries 92
Mean −332.5
Std Dev 0
pull1D
Entries 92
Mean 0.00489
Std Dev 1.029

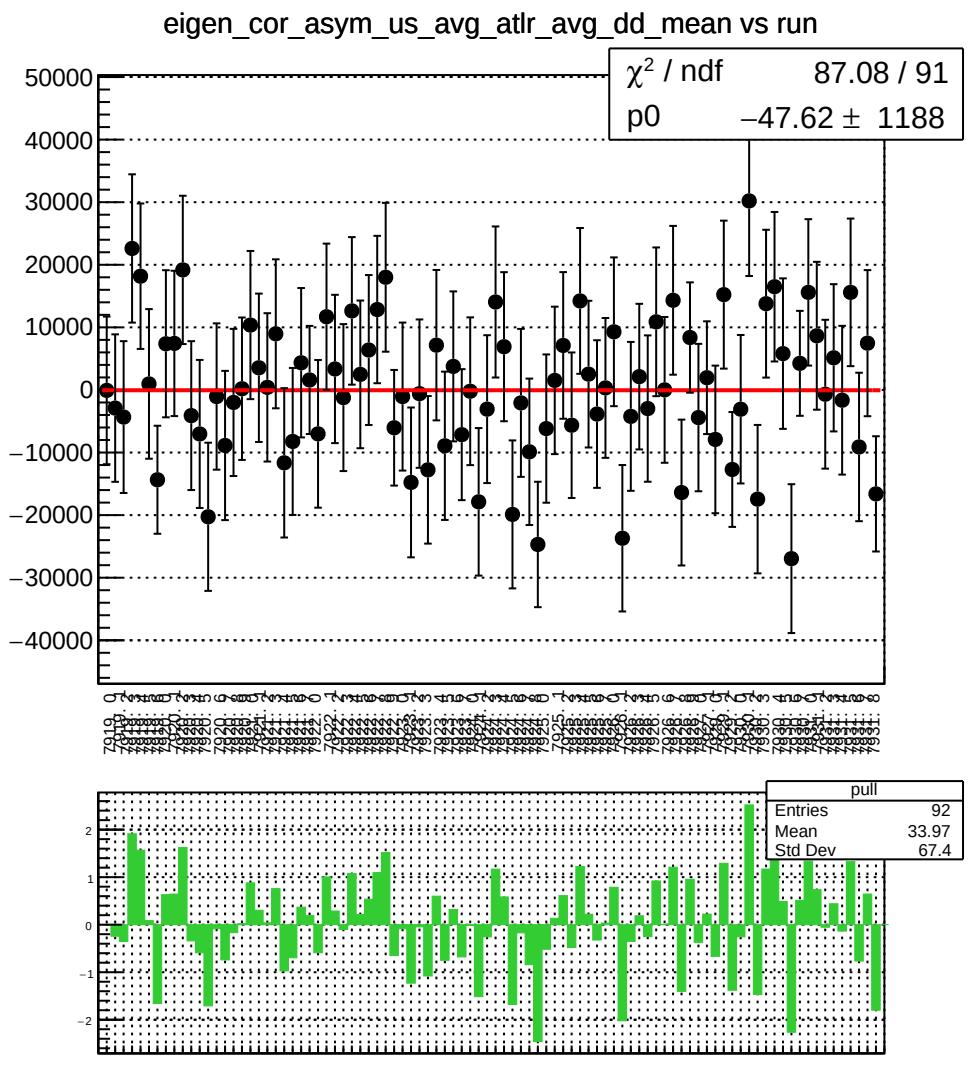

asym_us_avg_atlr_avg_dd_reg_correction_rms vs run
χ^2 / ndf 3226 / 91
p0 4427 ± 3.319
5400
5200
5000
4800
4600
4400
4200
4000

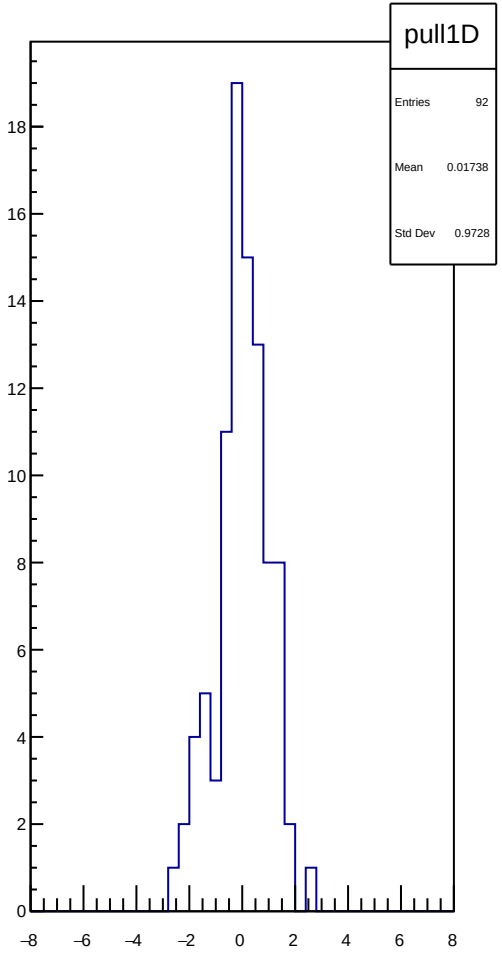

cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 87.08 / 91
p0 −47.62 ± 1188
pull
Entries 92
Mean 33.97
Std Dev 67.4
pull1D
Entries 92
Mean 0.01738
Std Dev 0.9728

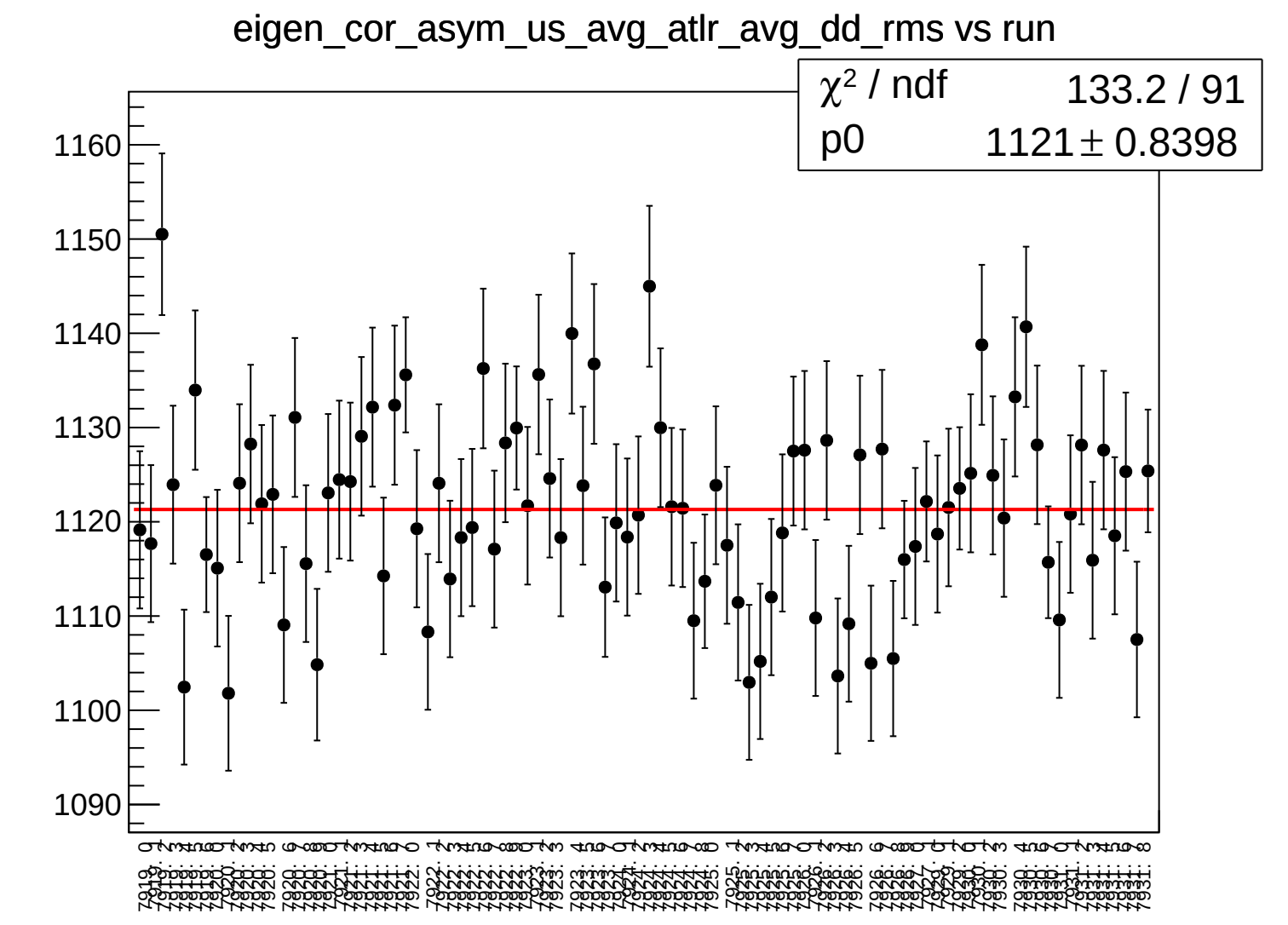

cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 133.2 / 91
p0 1121 ± 0.8398
1160
1150
1140
1130
1120
1110
1100
1090

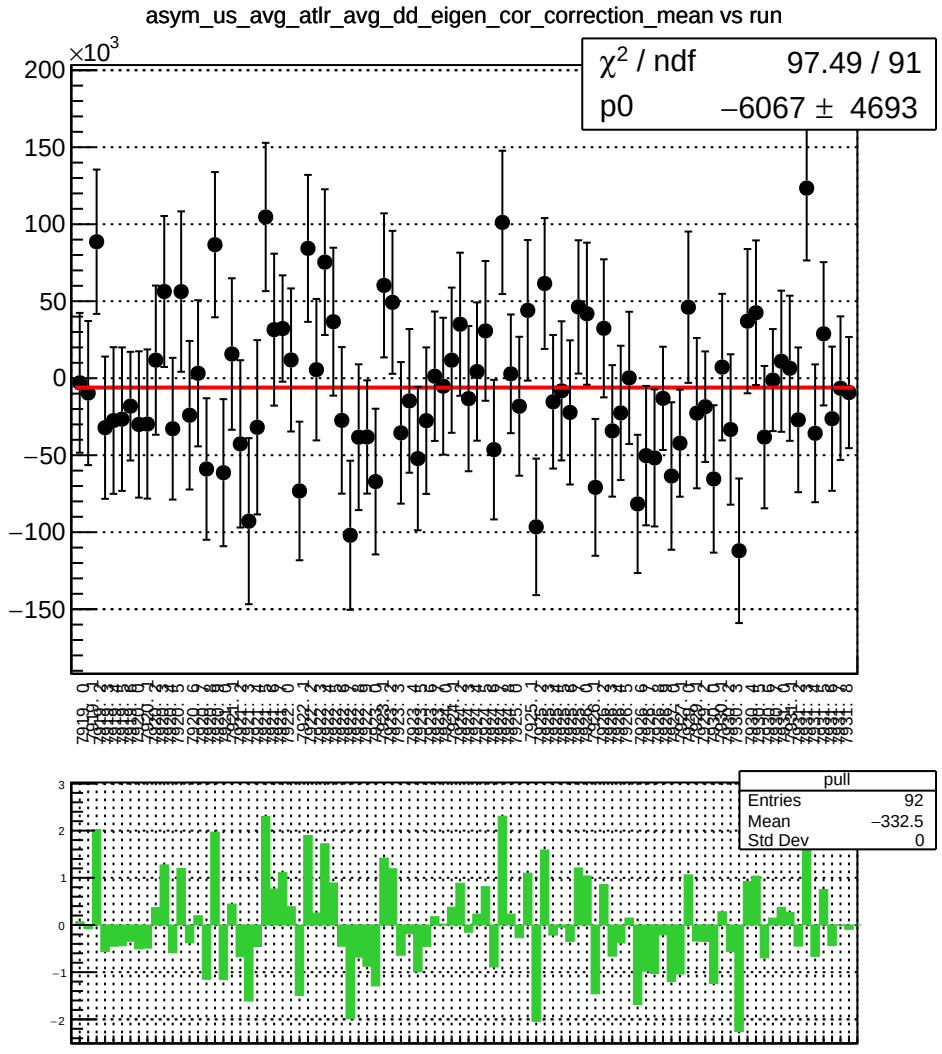

asym_us_avg_atlr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 97.49 / 91
p0 −6067 ± 4693
pull
Entries 92
Mean −332.5
Std Dev 0
pull1D
Entries 92
Mean 0.00489
Std Dev 1.029

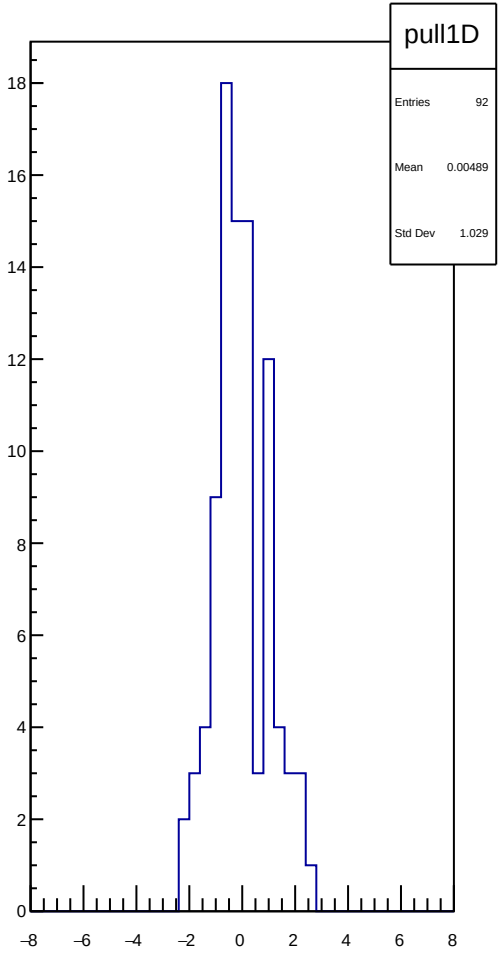

asym_us_avg_atlr_avg_dd_cor_correction_rms vs run
χ² / ndf 3226 / 91
p0 4427 ± 3.319
5400
5200
5000
4800
4600
4400
4200
4000

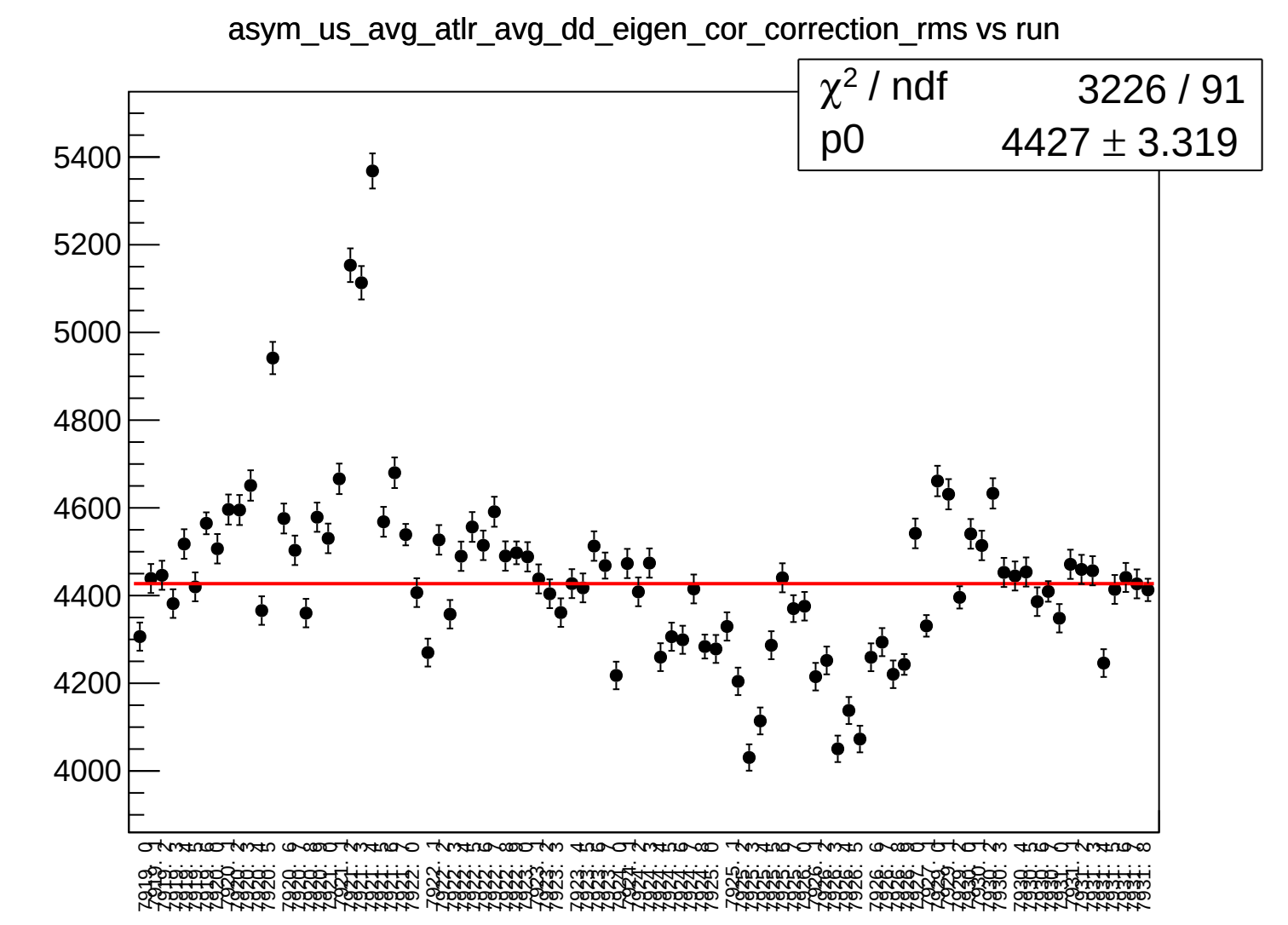

eigen_cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 87.08 / 91
p0 −47.62 ± 1188
pull
Entries 92
Mean 33.97
Std Dev 67.4

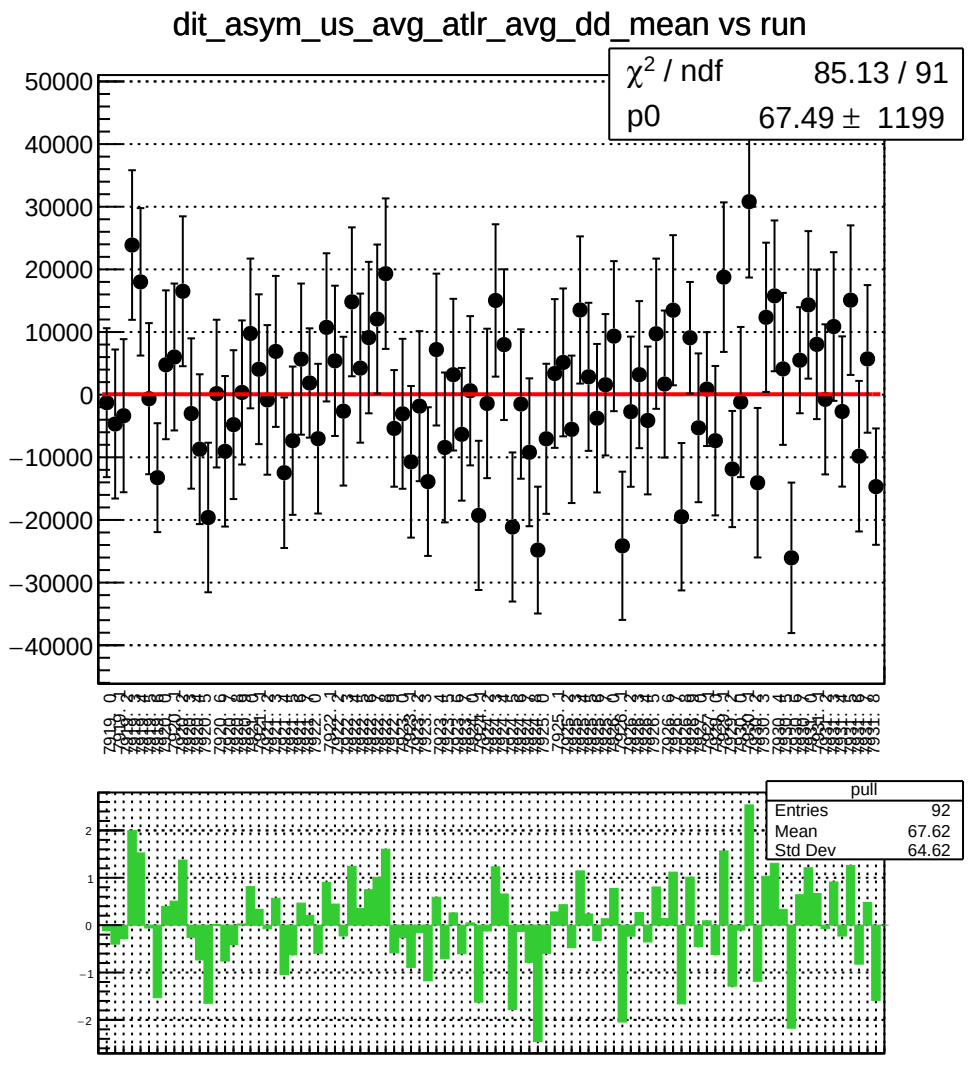

pull1D
Entries 92
Mean 0.01738
Std Dev 0.9728

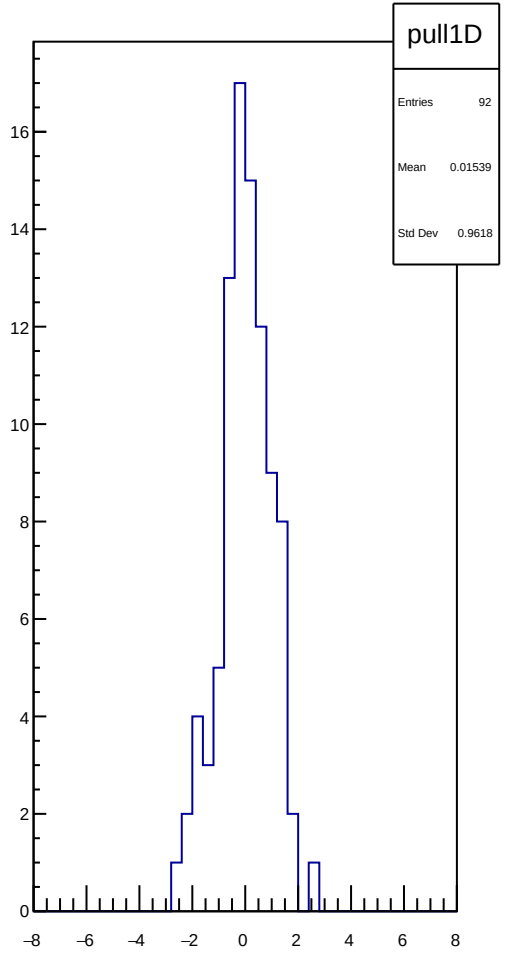

eigen_cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 133.2 / 91
p0 1121 ± 0.8398
1160
1150
1140
1130
1120
1110
1100
1090

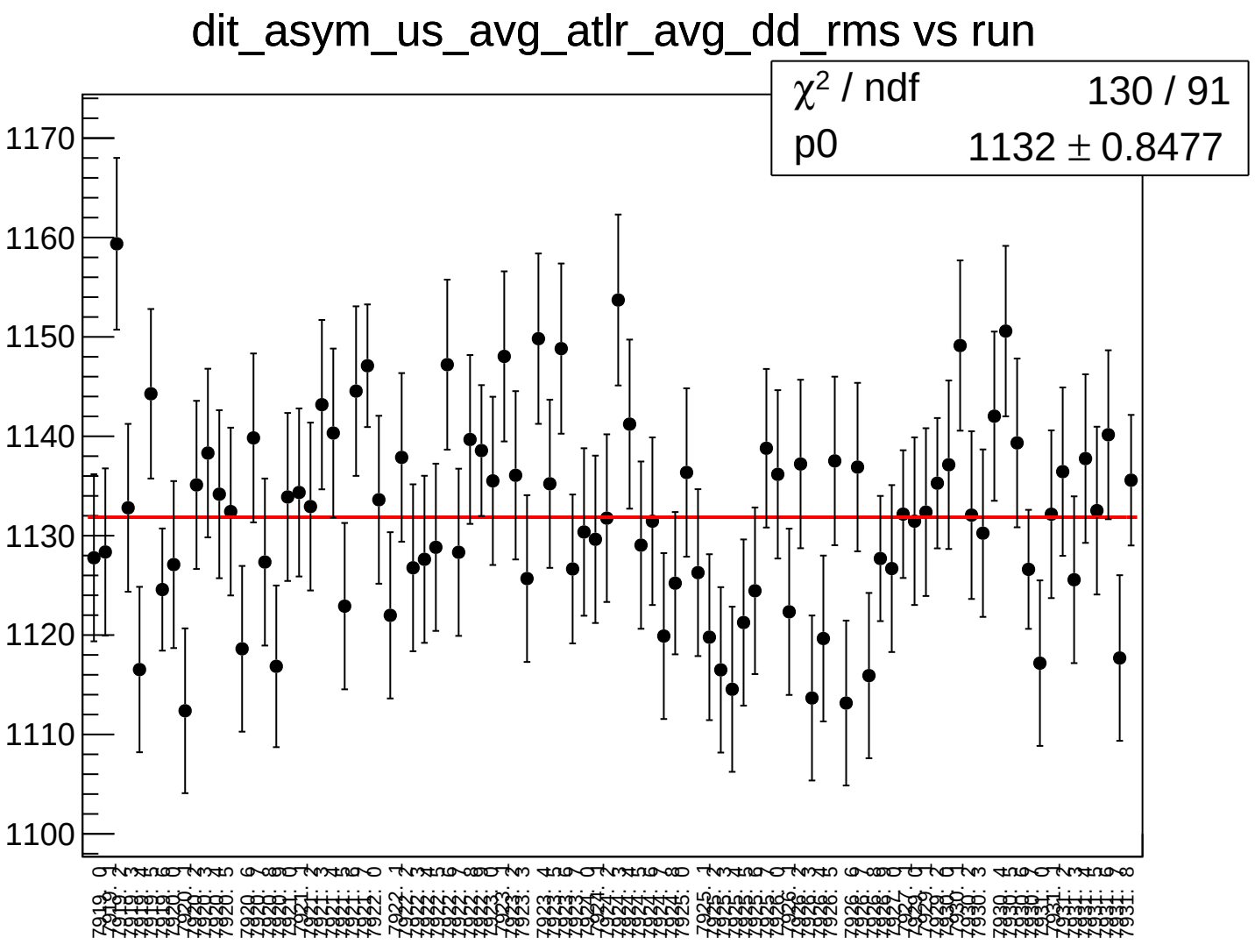

asym_us_avg_atlr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 97.49 / 91
p0 −6067 ± 4693
pull
Entries 92
Mean −332.5
Std Dev 0

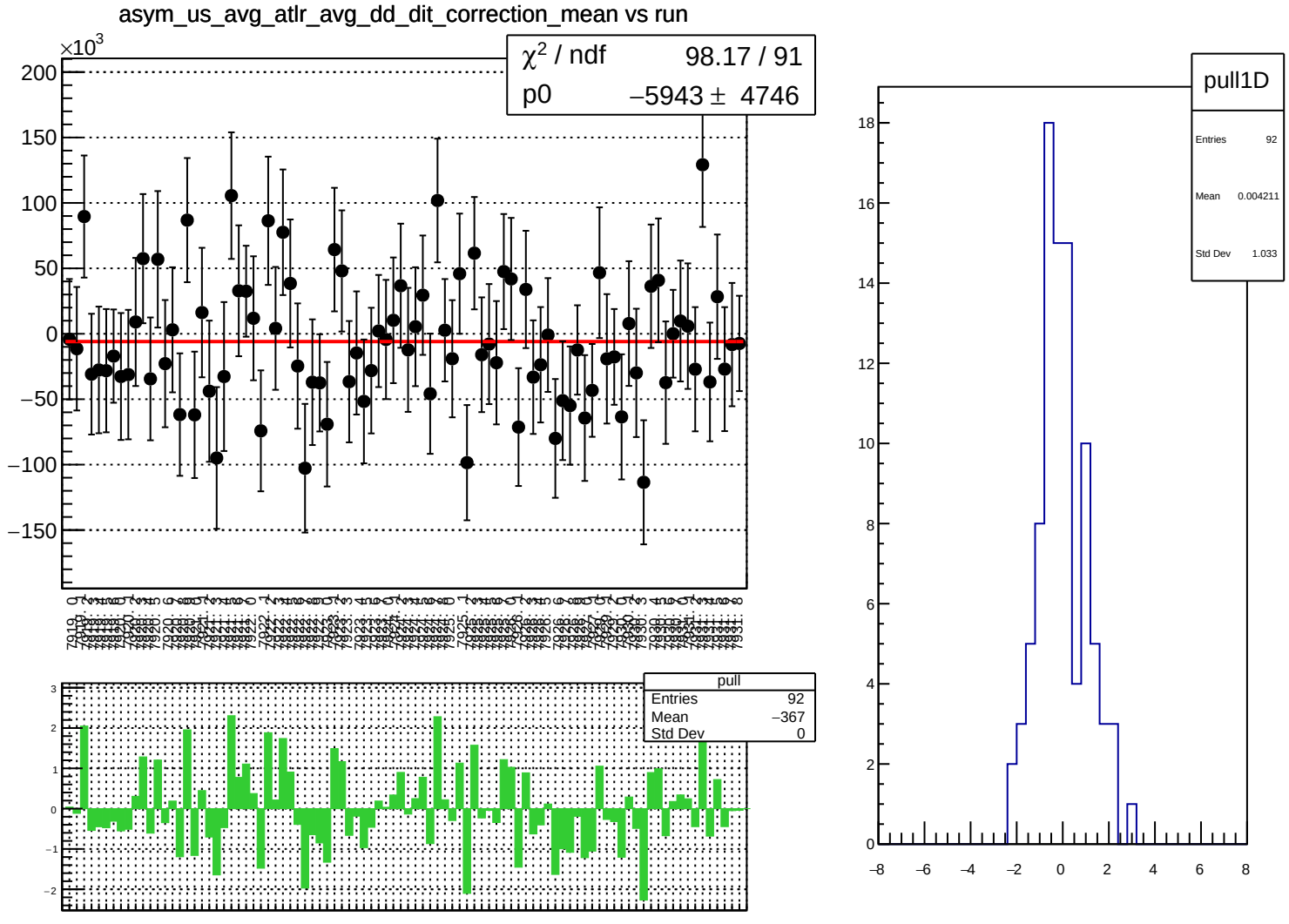

pull1D
Entries 92
Mean 0.00489
Std Dev 1.029

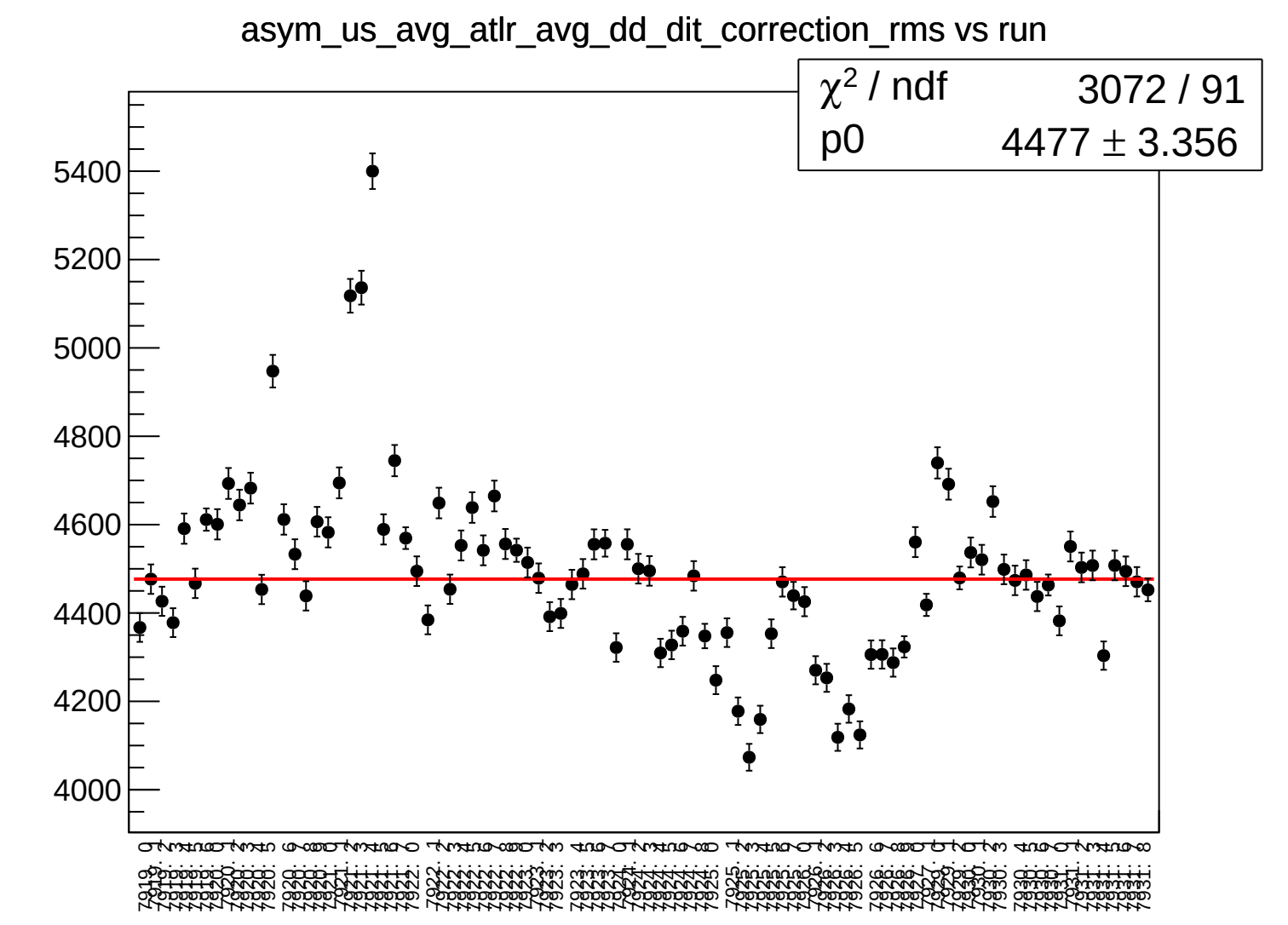

asym_us_avg_atlr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 3226 / 91
p0 4427 ± 3.319
5400
5200
5000
4800
4600
4400
4200
4000

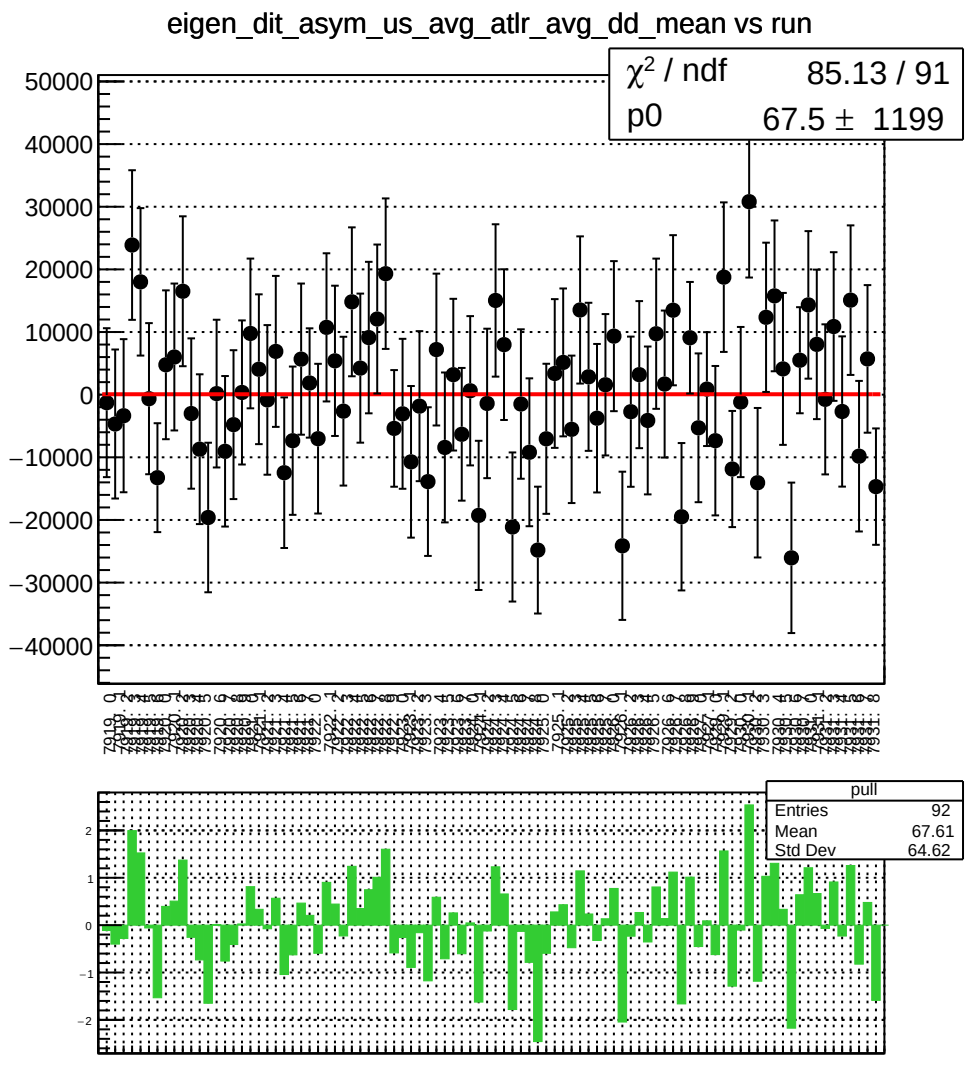

dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 85.13 / 91
p0 67.49 ± 1199
pull
Entries 92
Mean 67.62
Std Dev 64.62

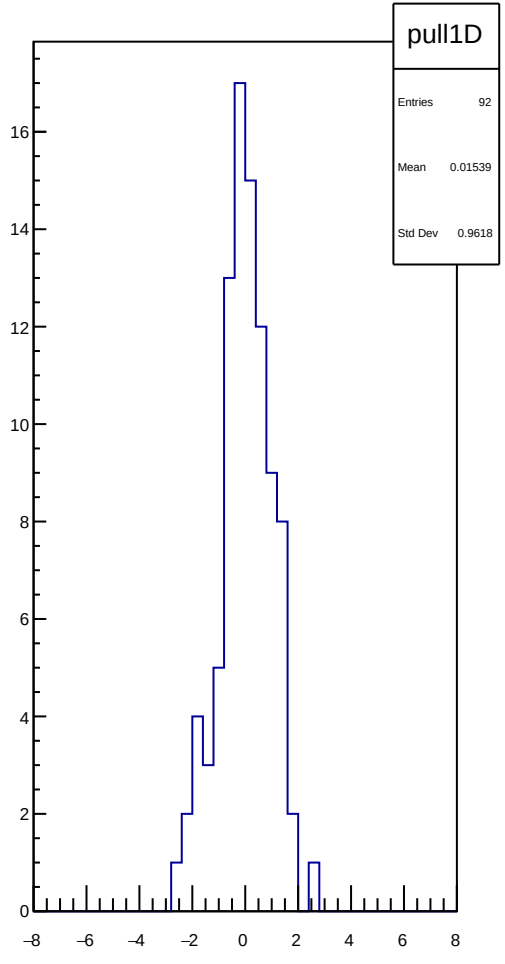

pull1D
Entries 92
Mean 0.01539
Std Dev 0.9618

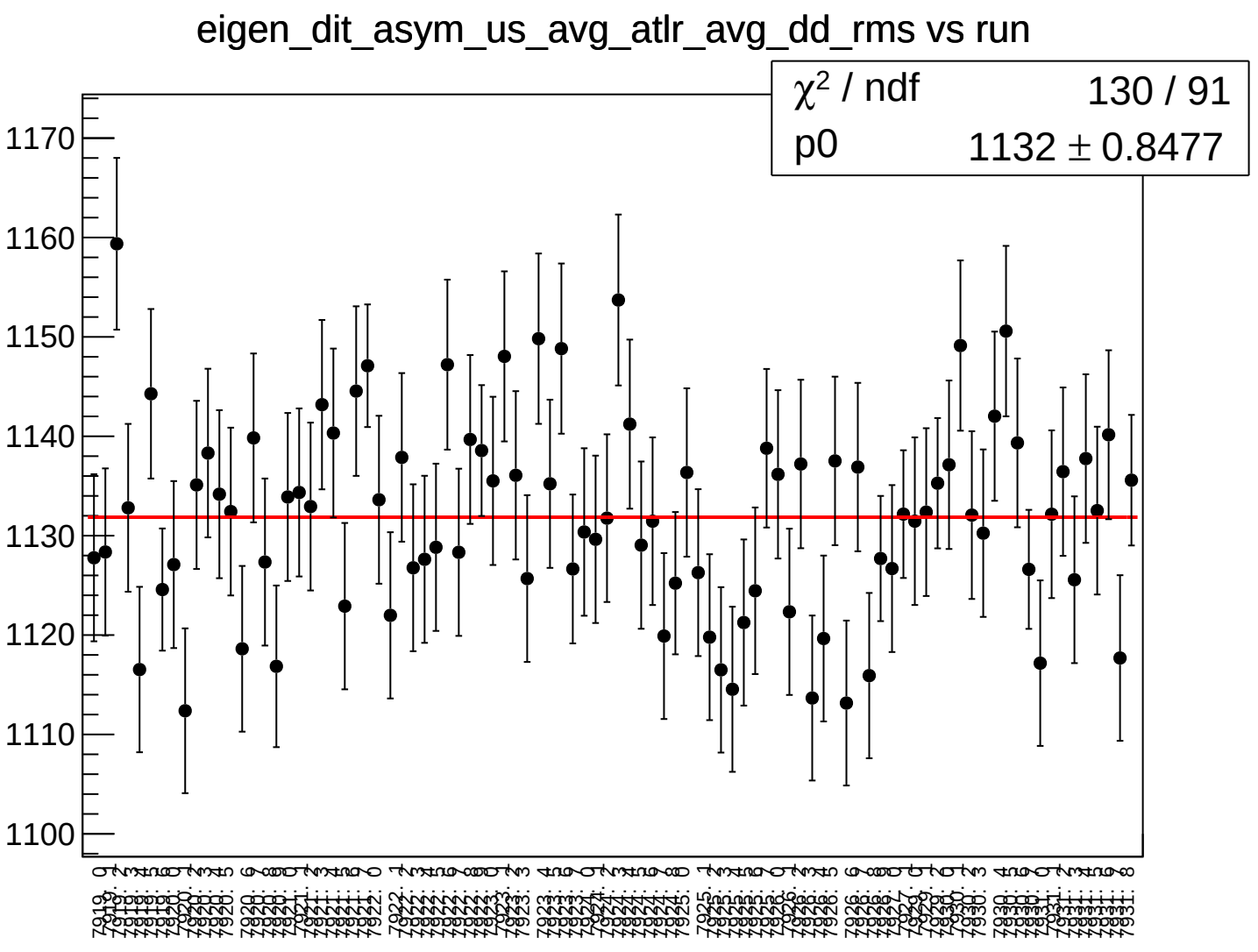

dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 130 / 91
p0 1132 ± 0.8477
1170
1160
1150
1140
1130
1120
1110
1100

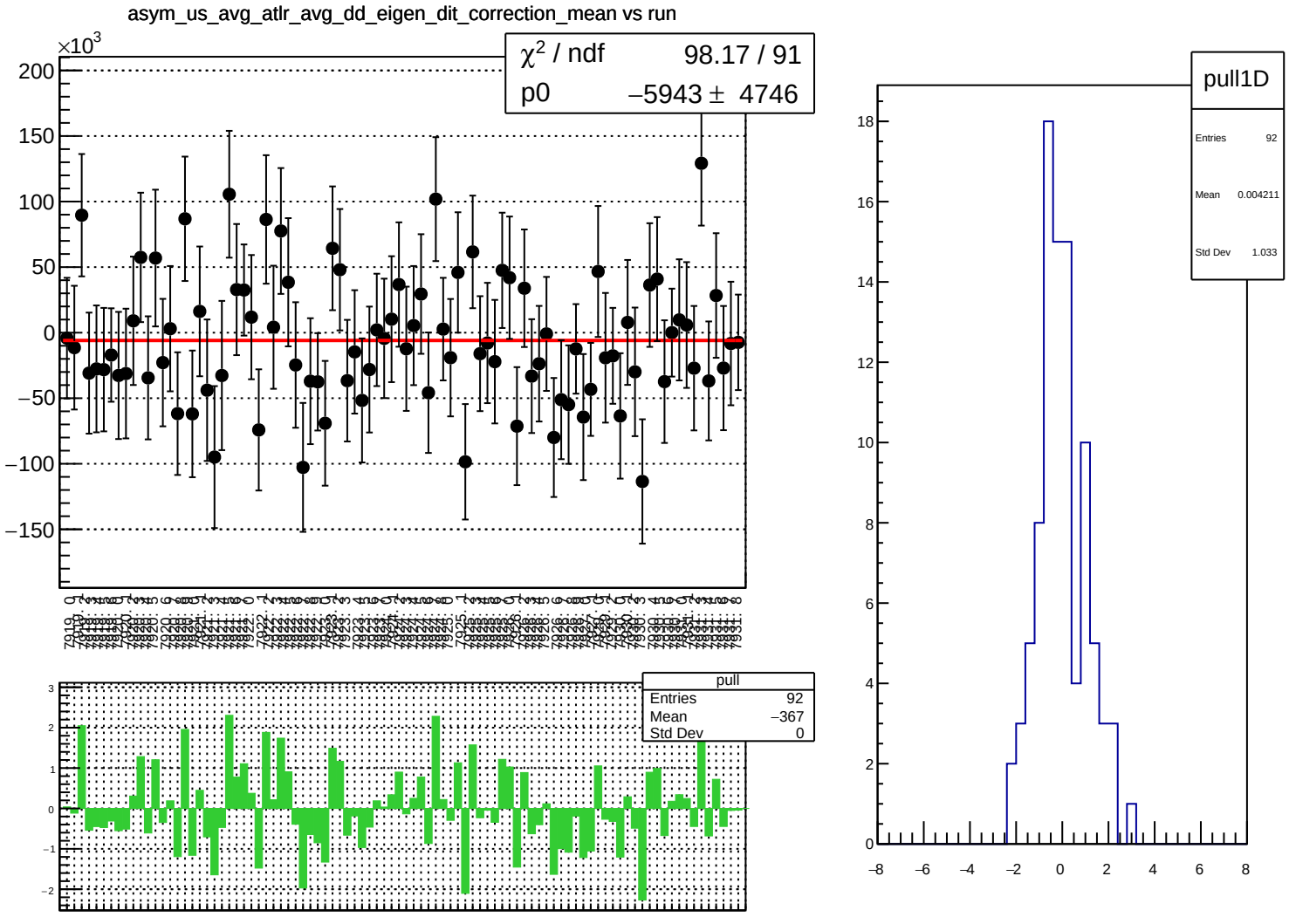

asym_us_avg_atlr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 98.17 / 91
p0 −5943 ± 4746
200
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean −367
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.004211
Std Dev 1.033
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

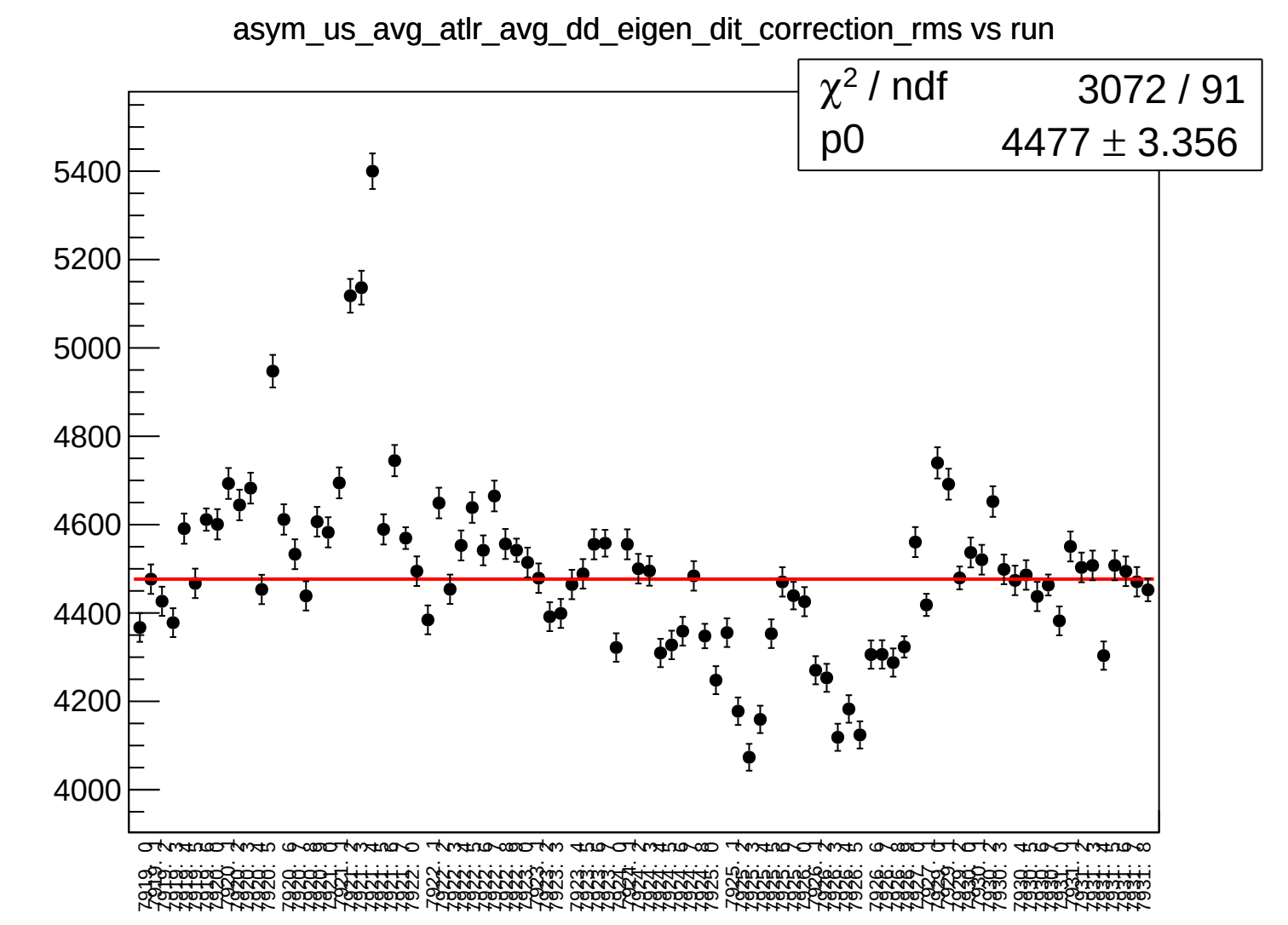

asym_us_avg_atlr_avg_dd_dit_correction_rms vs run
χ² / ndf 3072 / 91
p0 4477 ± 3.356
5400
5200
5000
4800
4600
4400
4200
4000

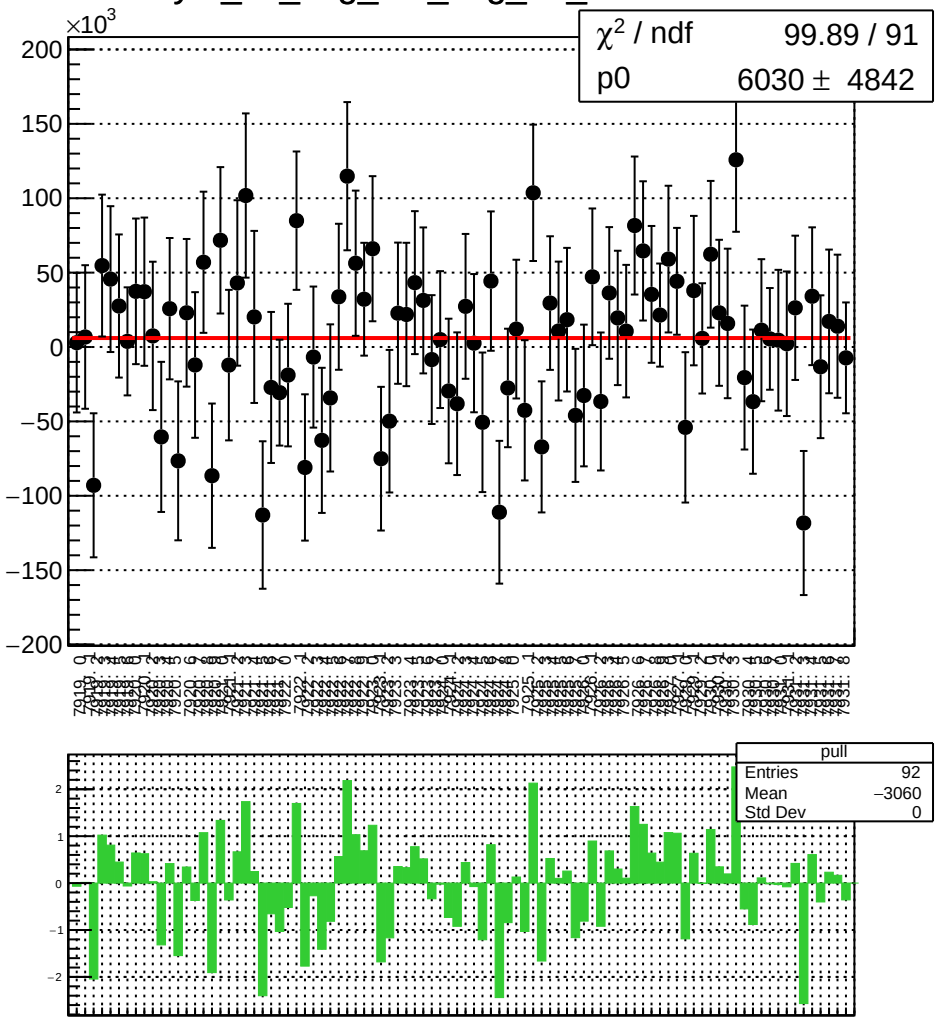

eigen_dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 85.13 / 91
p0 67.5 ± 1199
pull
Entries 92
Mean 67.61
Std Dev 64.62

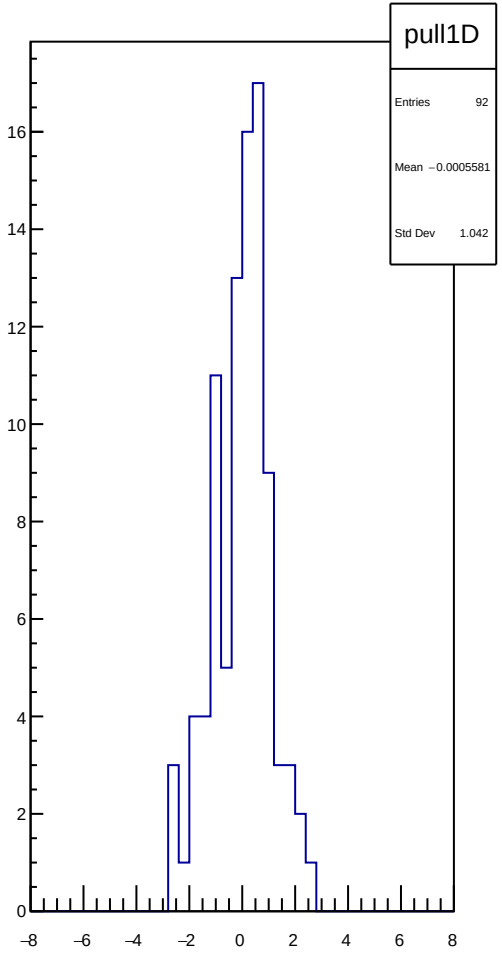

pull1D
Entries 92
Mean 0.01539
Std Dev 0.9618

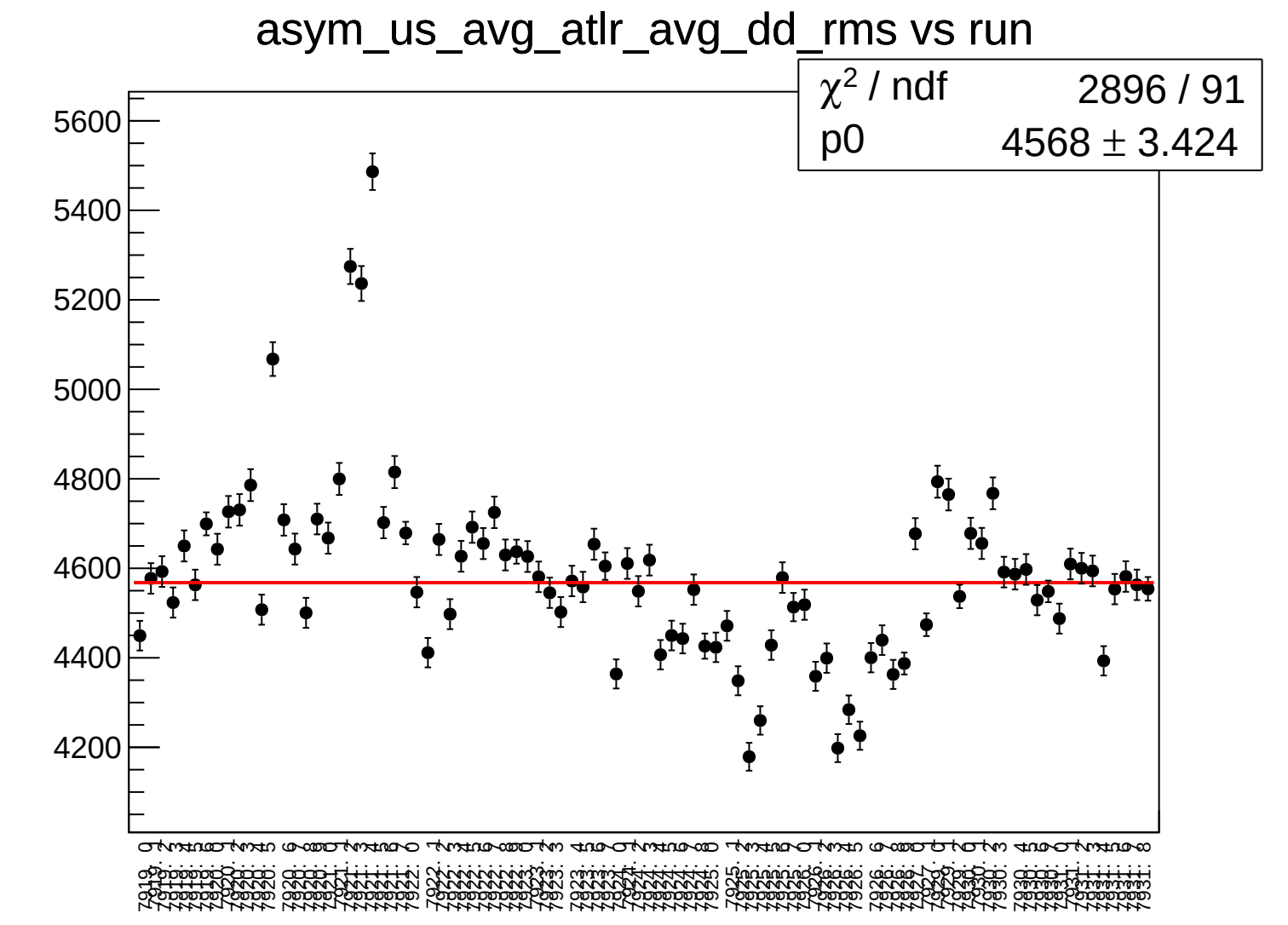

eigen_dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 130 / 91
p0 1132 ± 0.8477
1170
1160
1150
1140
1130
1120
1110
1100

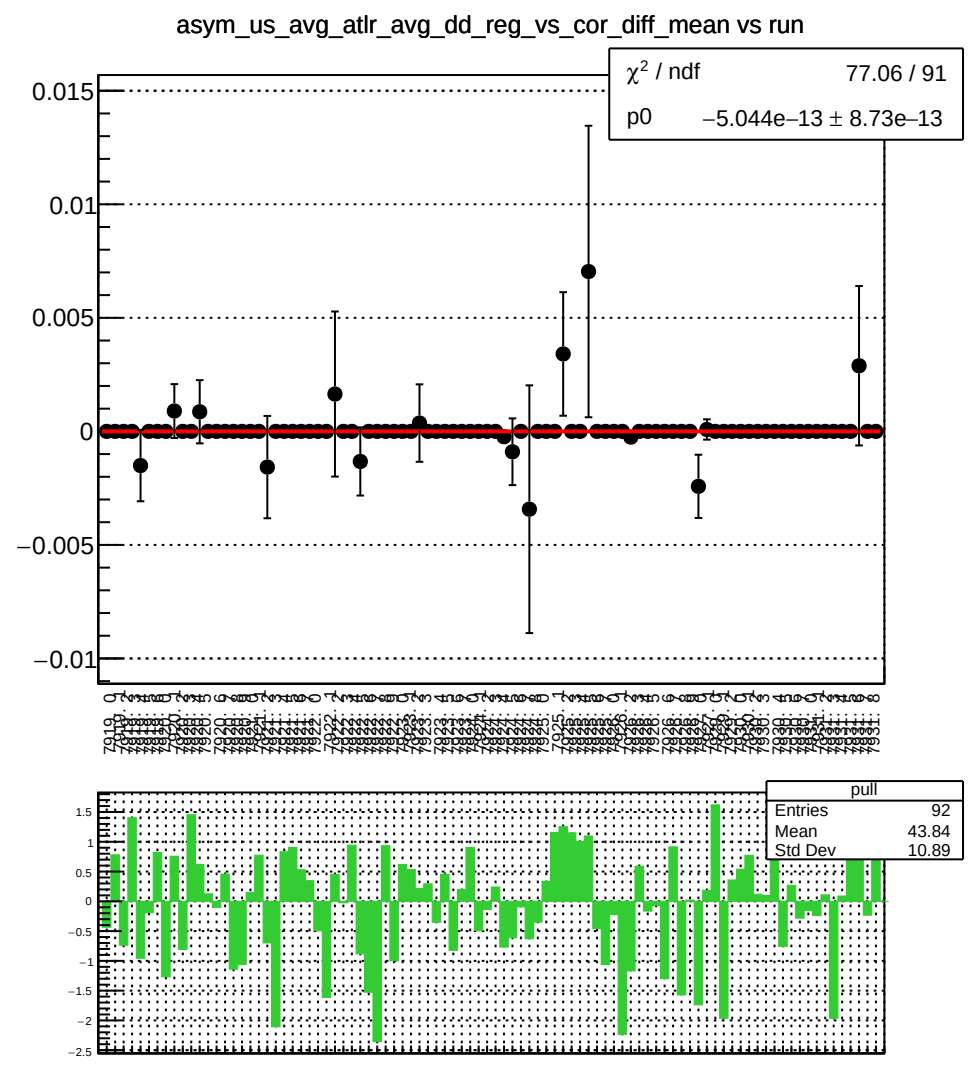

asym_us_avg_atlr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 98.17 / 91
p0 −5943 ± 4746
pull
Entries 92
Mean −367
Std Dev 0
pull1D
Entries 92
Mean 0.004211
Std Dev 1.033

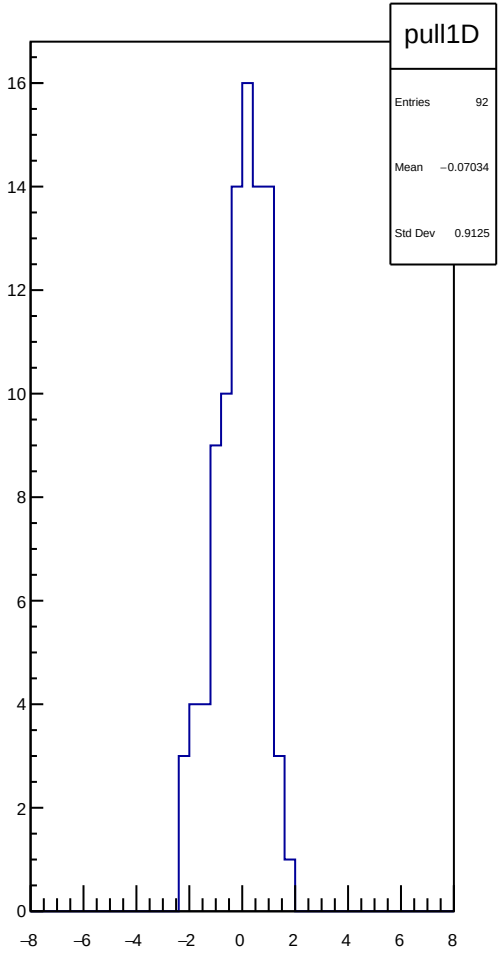

asym_us_avg_atlr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 3072 / 91
p0 4477 ± 3.356
5400
5200
5000
4800
4600
4400
4200
4000

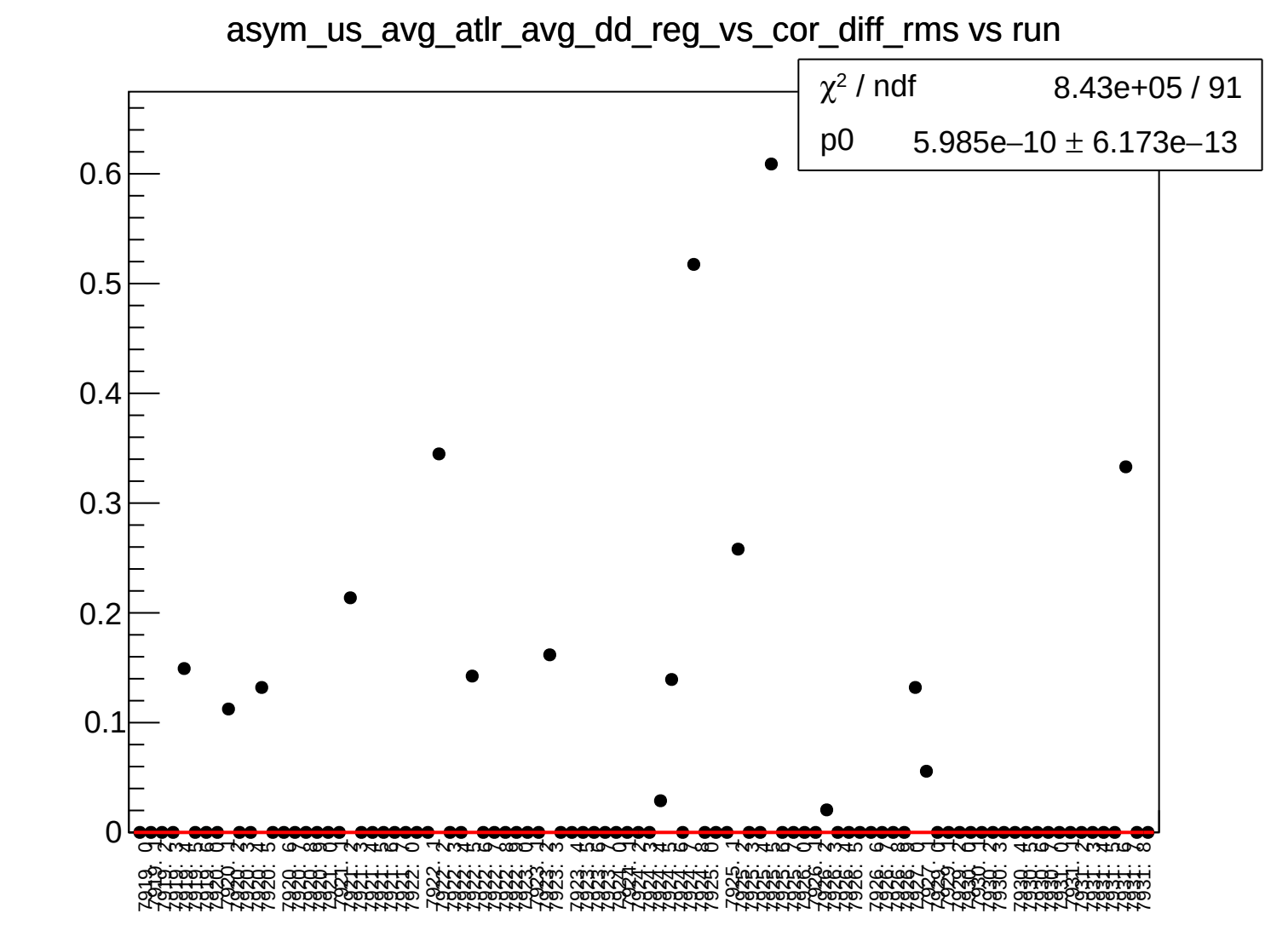

asym_us_avg_atlr_avg_dd_mean vs run
×10^3
χ^2 / ndf 99.89 / 91
p0 6030 ± 4842
pull
Entries 92
Mean −3060
Std Dev 0

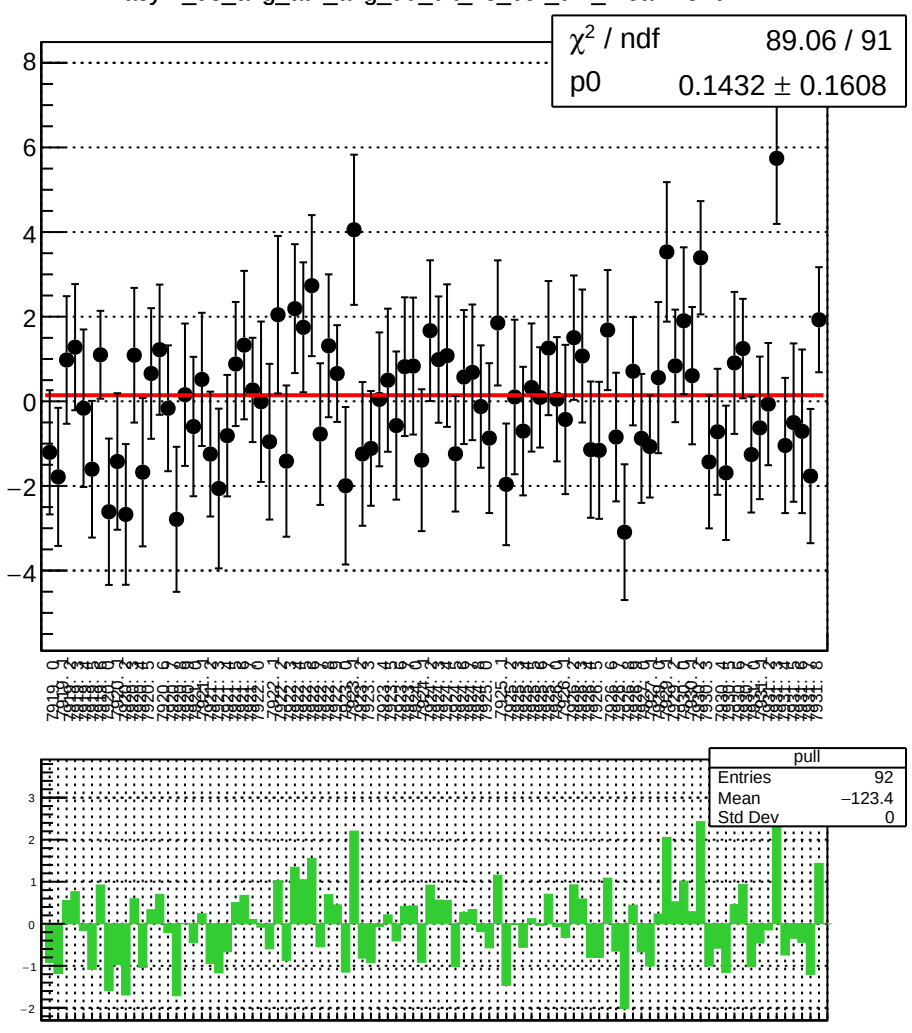

pull1D
Entries 92
Mean −0.0005581
Std Dev 1.042

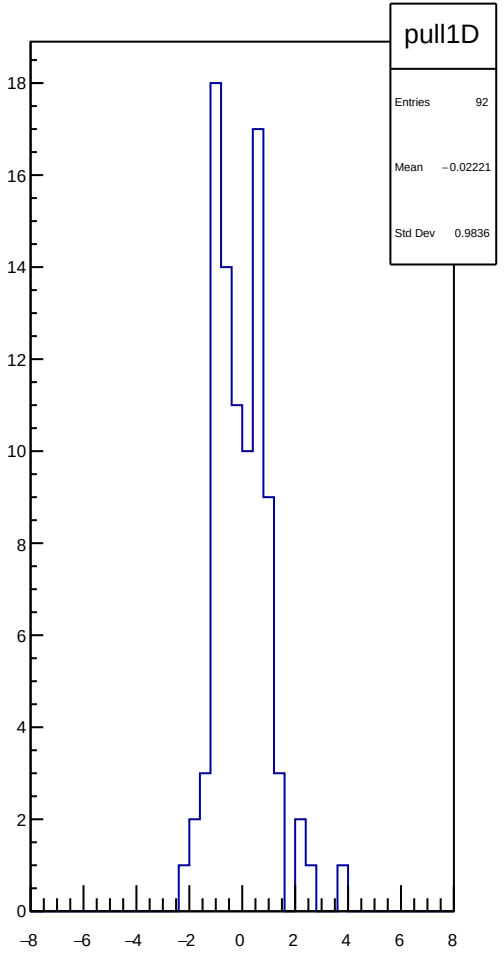

asym_us_avg_atlr_avg_dd_rms vs run
χ^2 / ndf 2896 / 91
p0 4568 ± 3.424
5600
5400
5200
5000
4800
4600
4400
4200

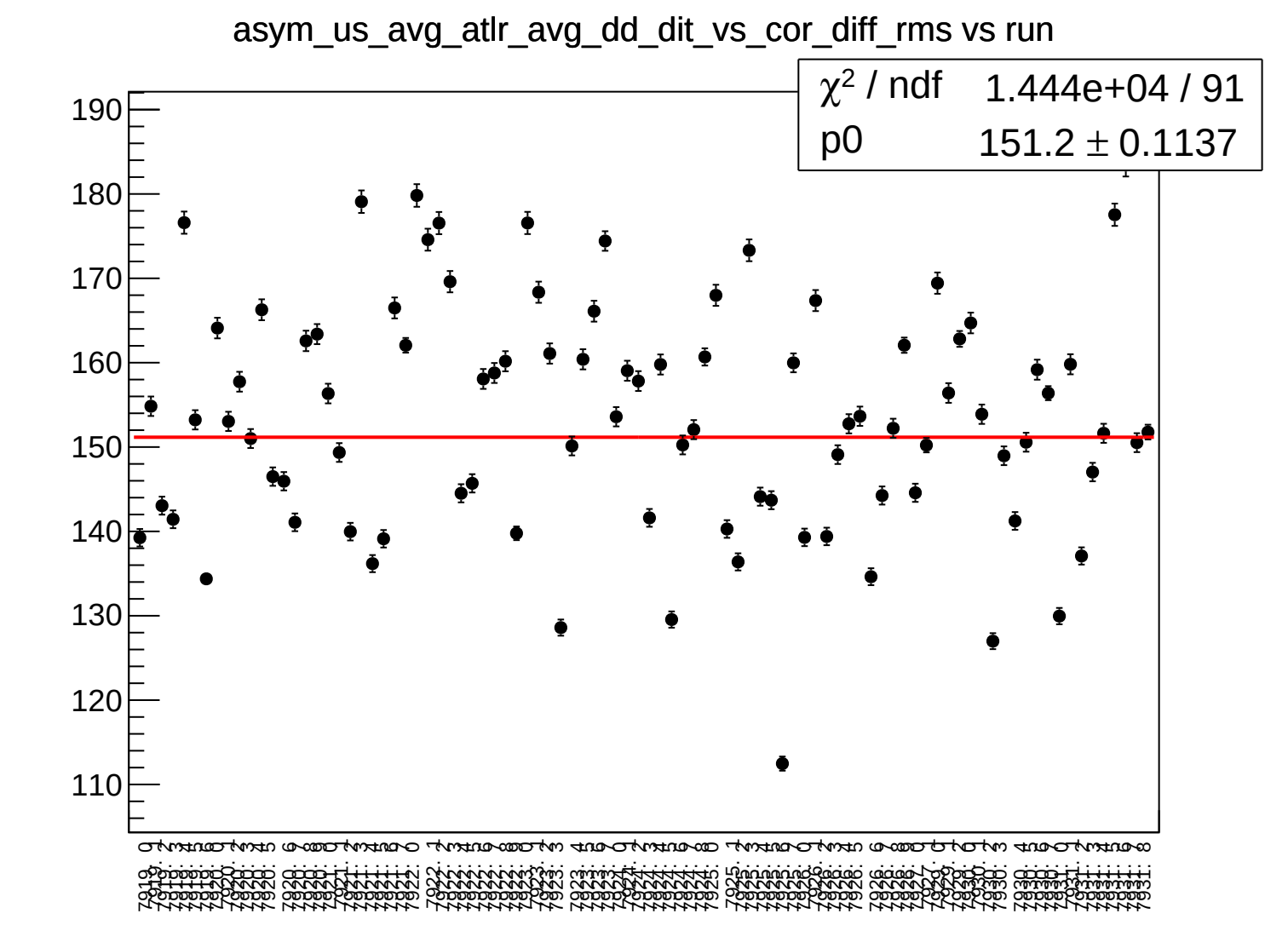

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 77.06 / 91
p0 −5.044e−13 ± 8.73e−13
pull
Entries 92
Mean 43.84
Std Dev 10.89

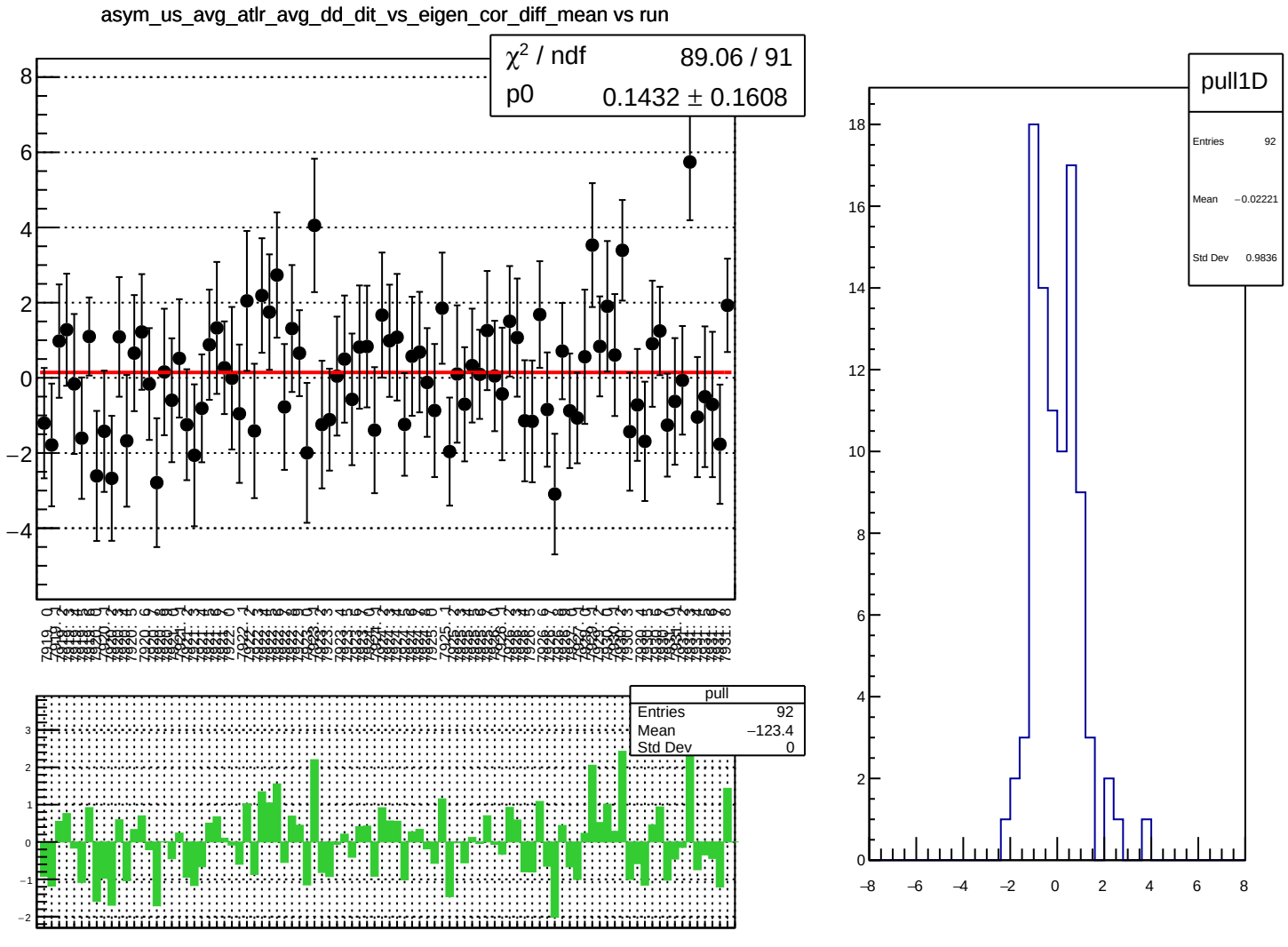

pull1D
Entries 92
Mean −0.07034
Std Dev 0.9125

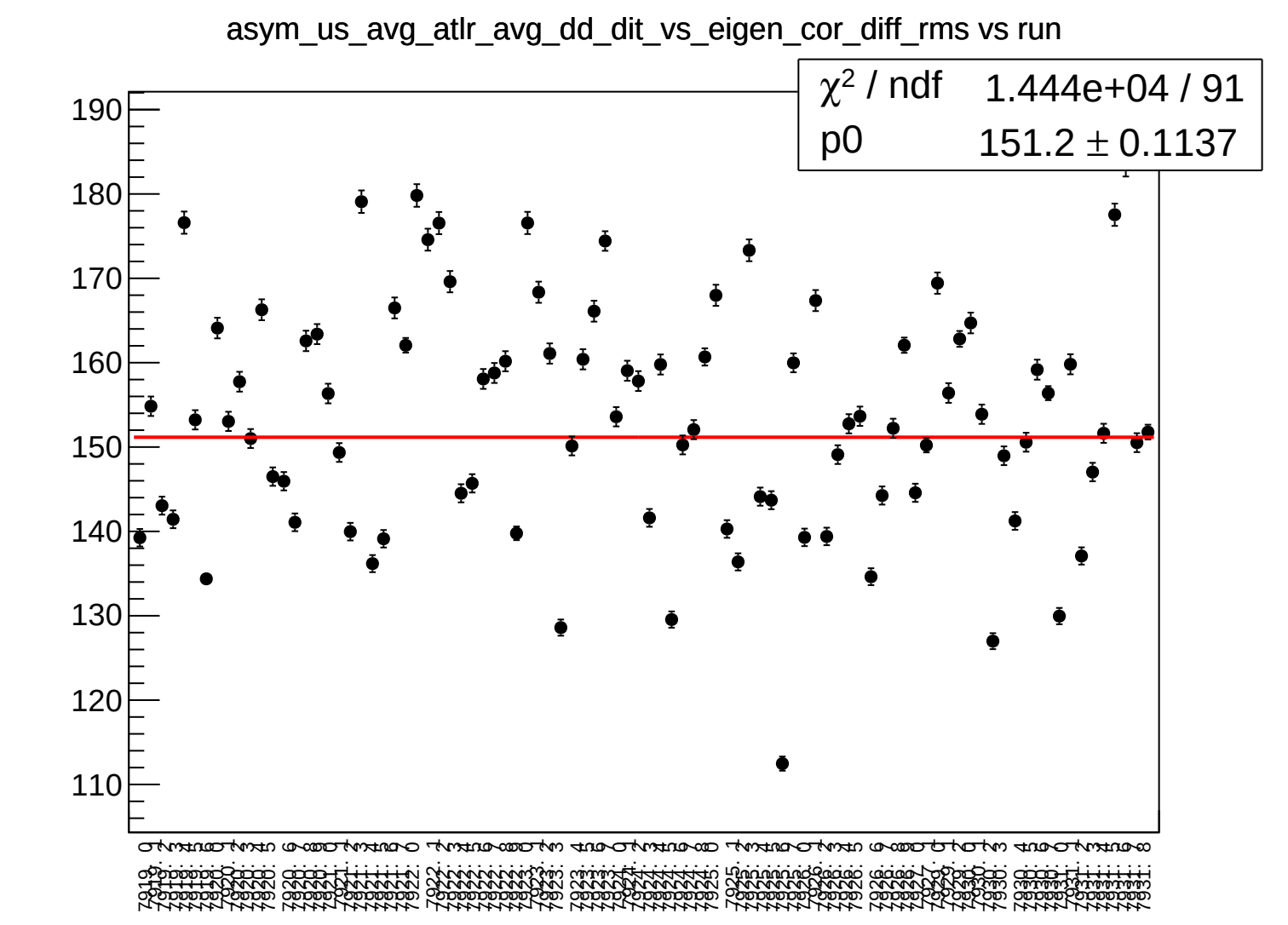

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.43e+05 / 91
p0 5.985e−10 ± 6.173e−13
0.6
0.5
0.4
0.3
0.2
0.1
0

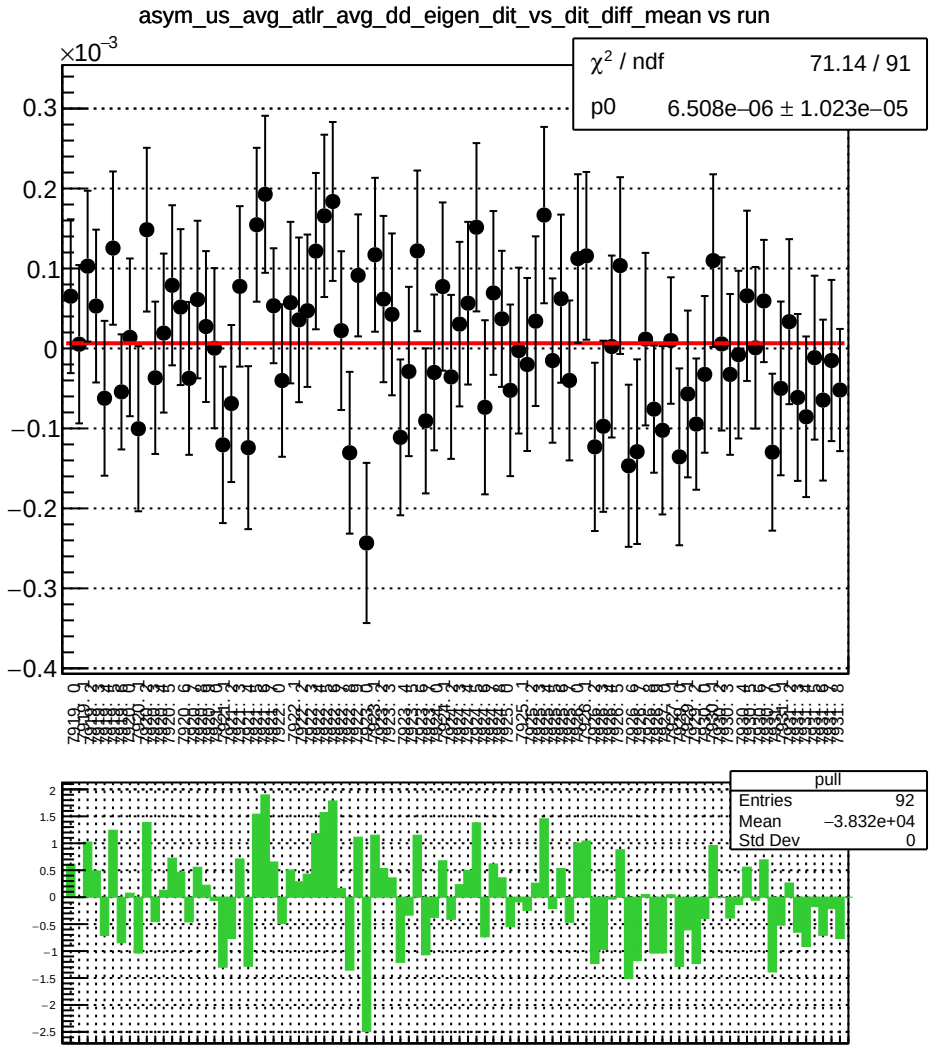

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 89.06 / 91
p0 0.1432 ± 0.1608
pull
Entries 92
Mean −123.4
Std Dev 0

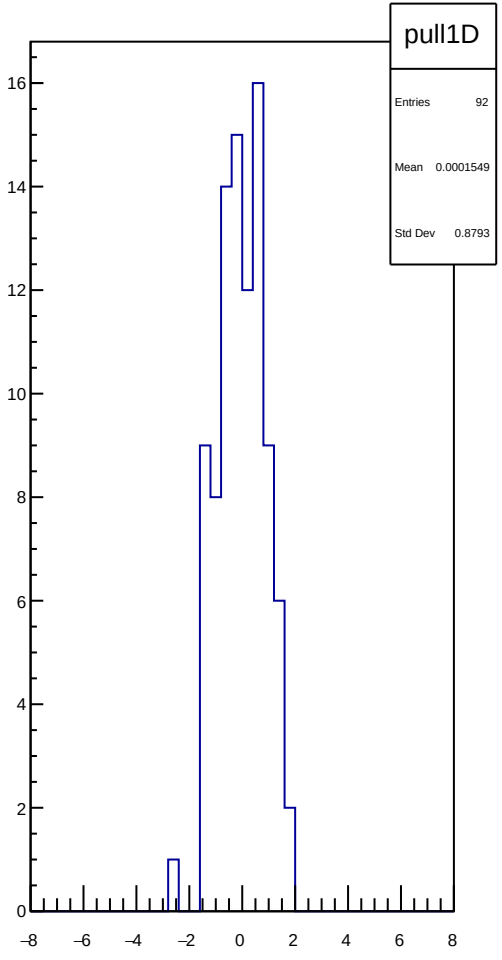

pull1D
Entries 92
Mean −0.02221
Std Dev 0.9836

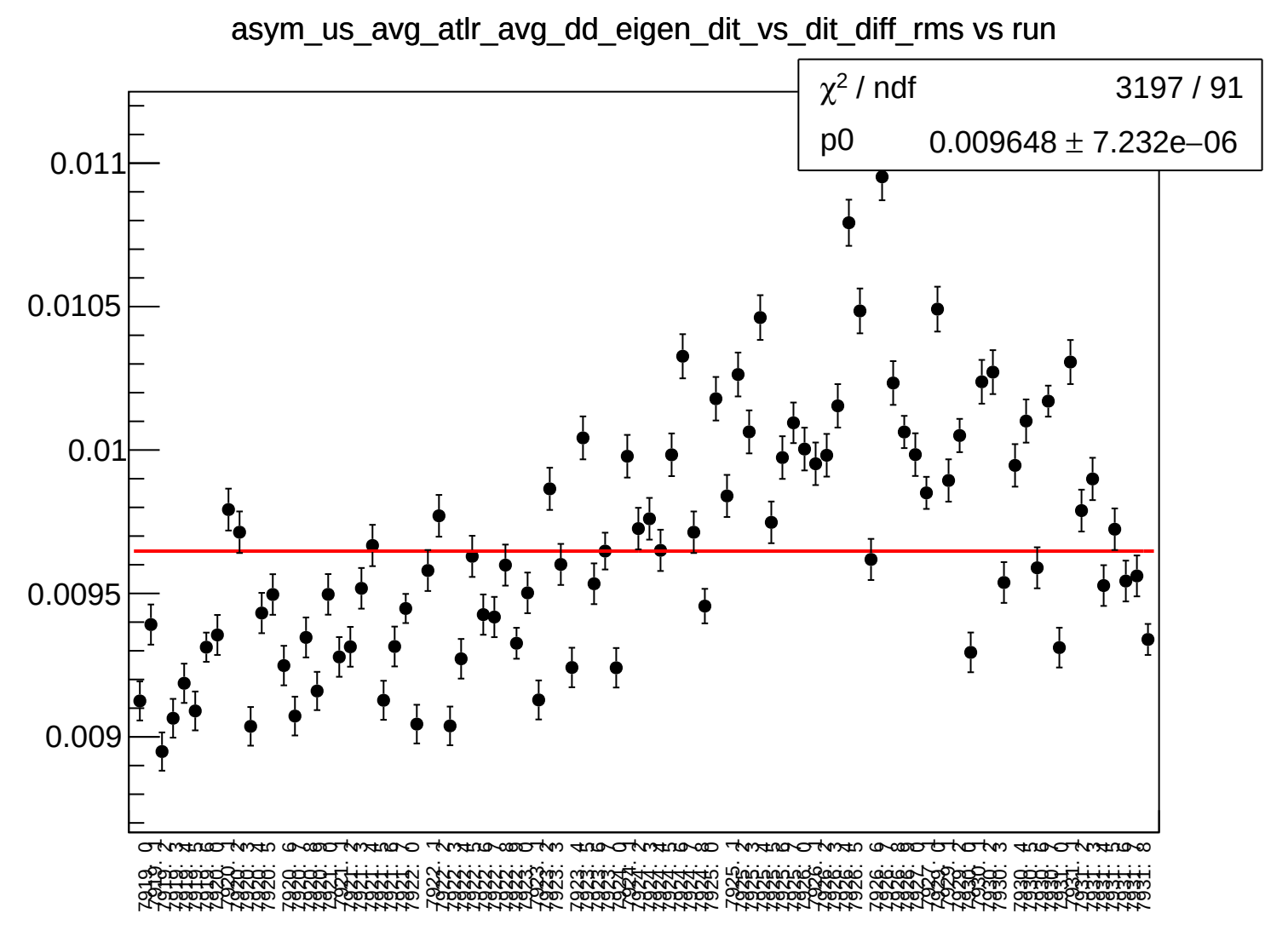

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.444e+04 / 91
p0 151.2 ± 0.1137
190
180
170
160
150
140
130
120
110

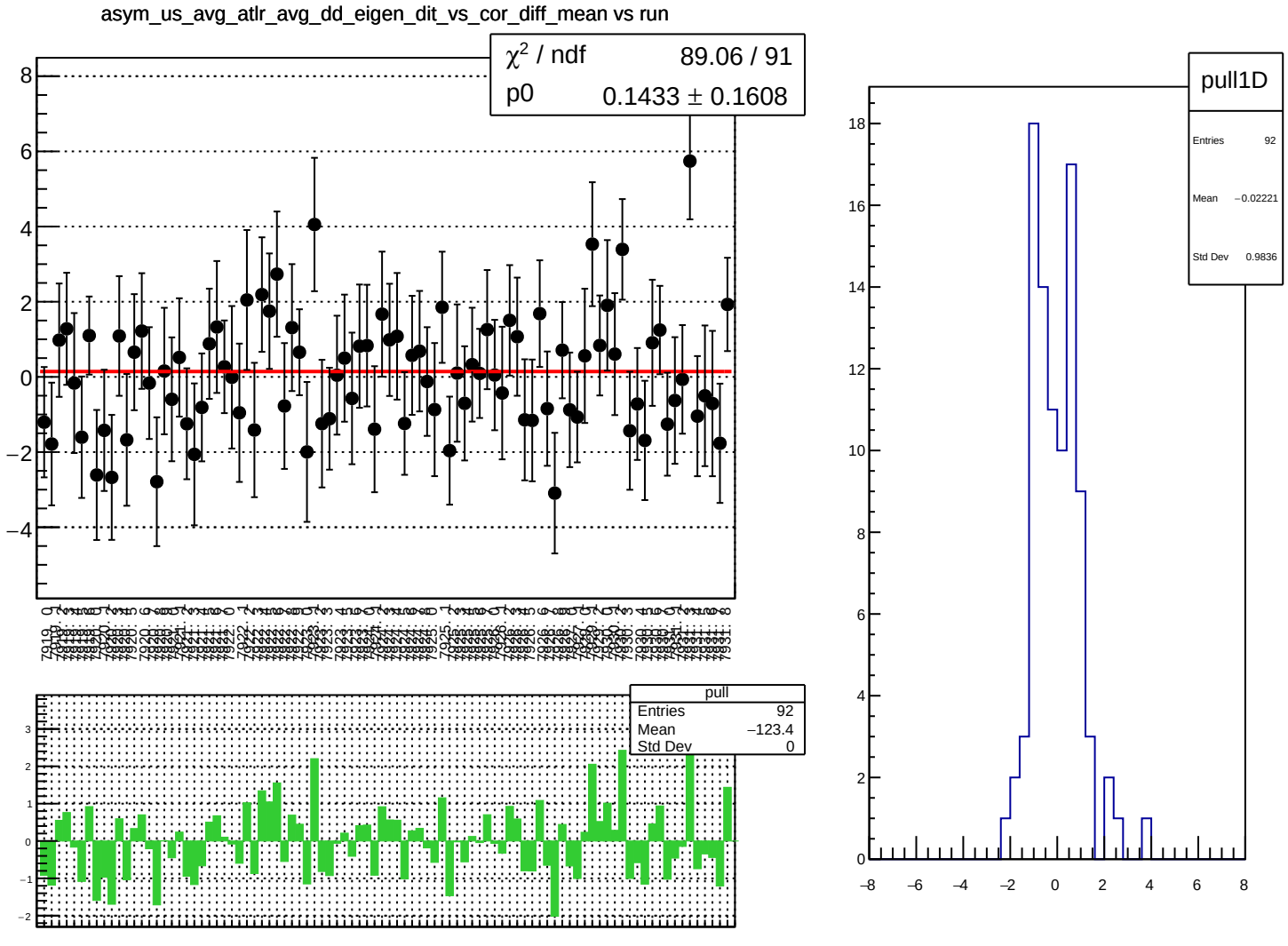

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.06 / 91
p0 0.1432 ± 0.1608
pull
Entries 92
Mean −123.4
Std Dev 0
pull1D
Entries 92
Mean −0.02221
Std Dev 0.9836

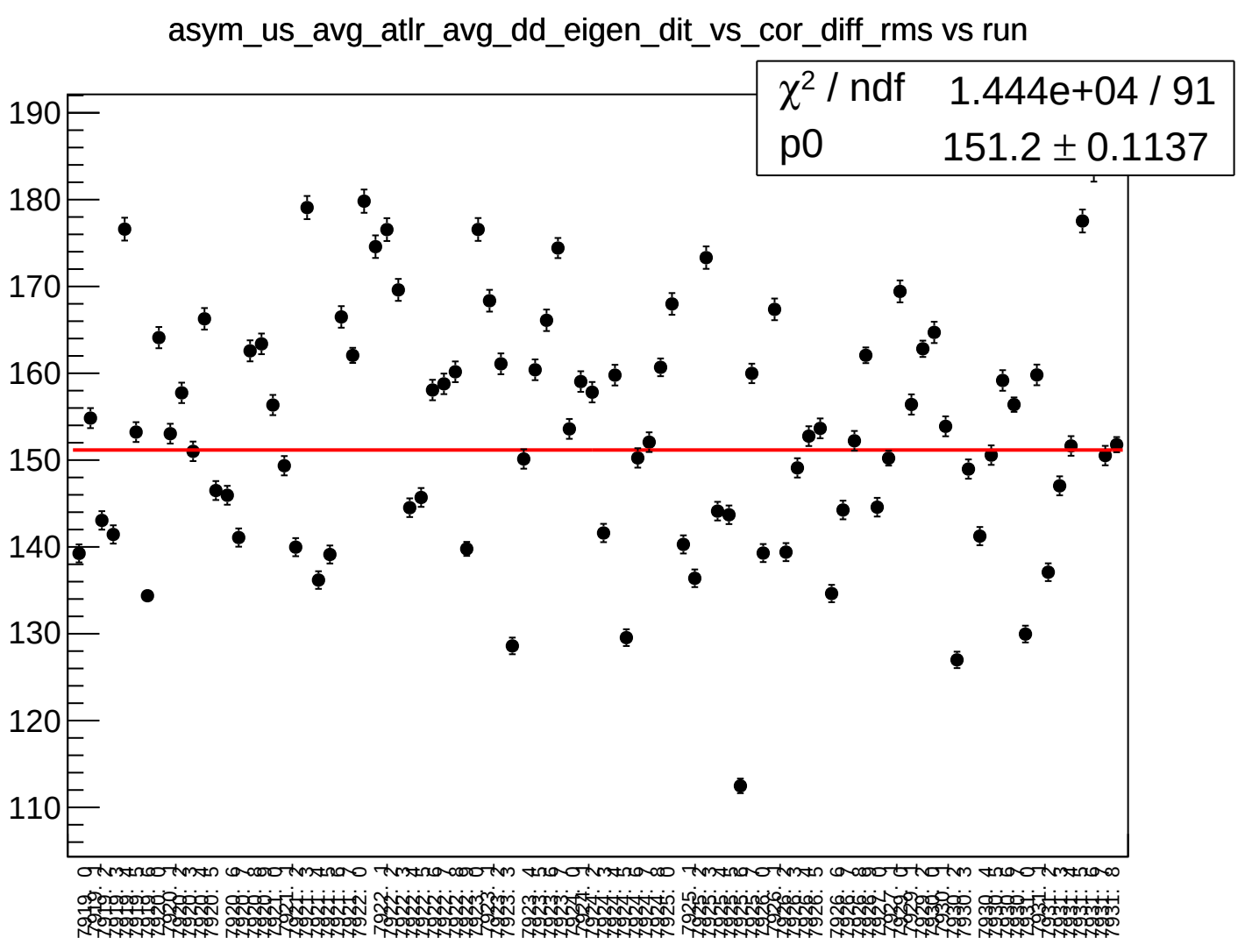

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.444e+04 / 91
p0 151.2 ± 0.1137
190
180
170
160
150
140
130
120
110

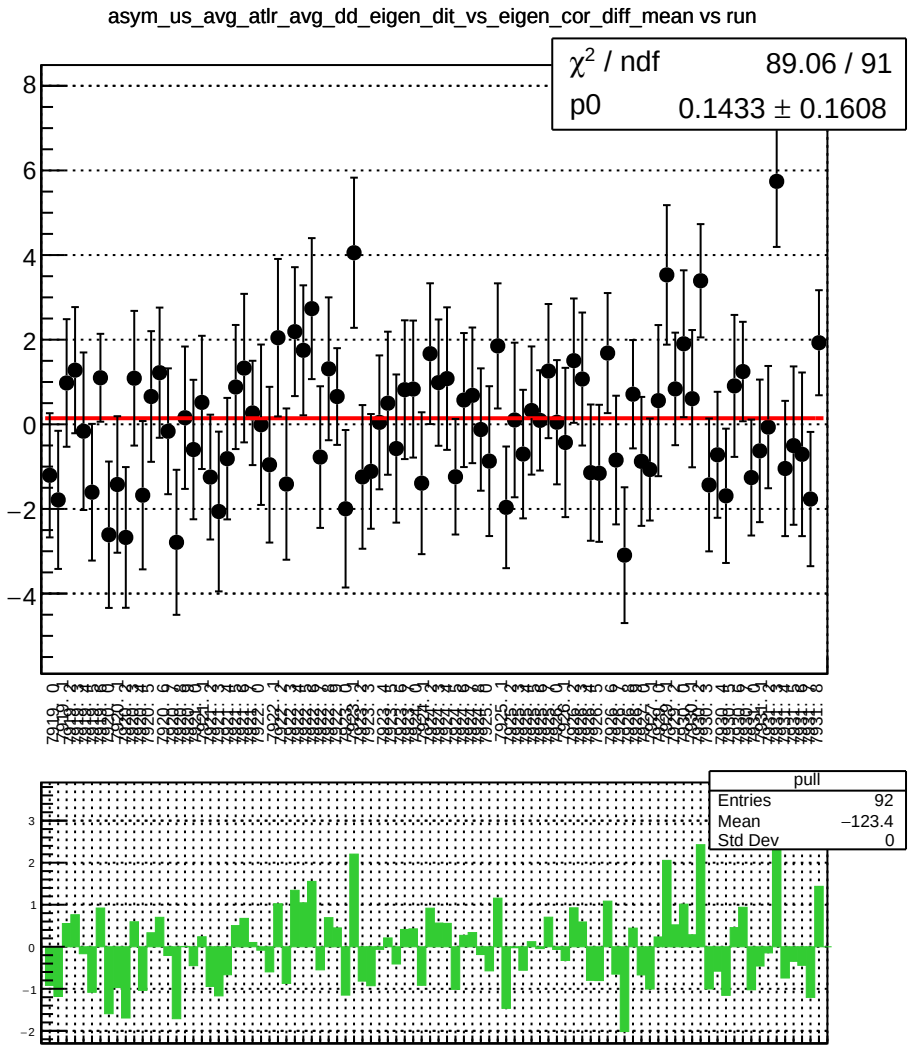

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 71.14 / 91
p0 6.508e−06 ± 1.023e−05
pull
Entries 92
Mean −3.832e+04
Std Dev 0

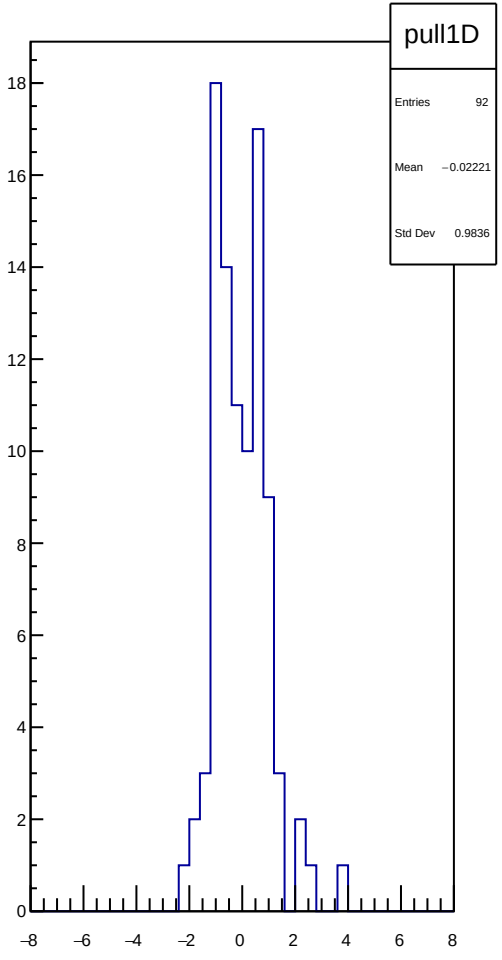

pull1D
Entries 92
Mean 0.0001549
Std Dev 0.8793

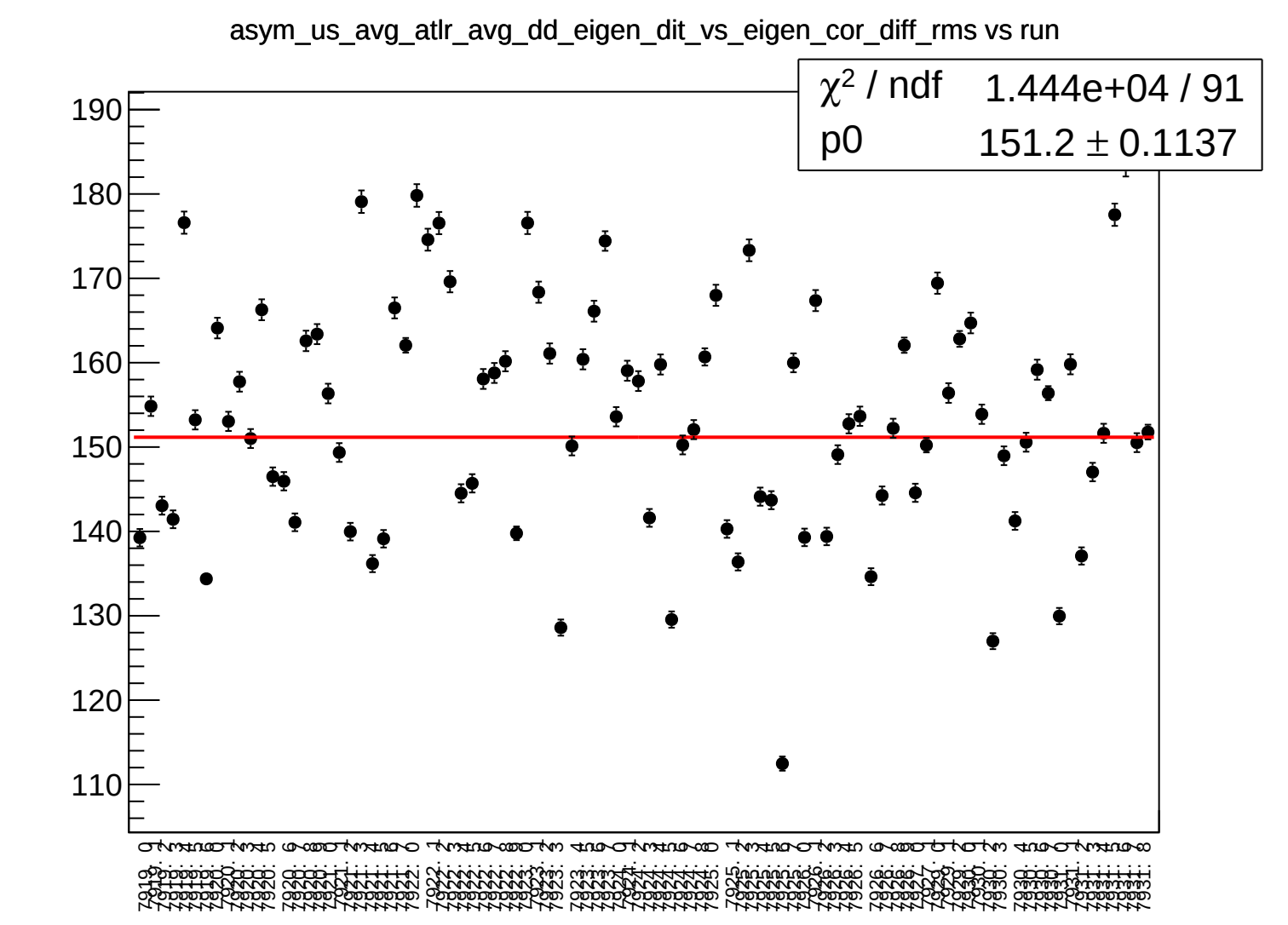

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3197 / 91
p0 0.009648 ± 7.232e−06
0.011
0.0105
0.01
0.0095
0.009

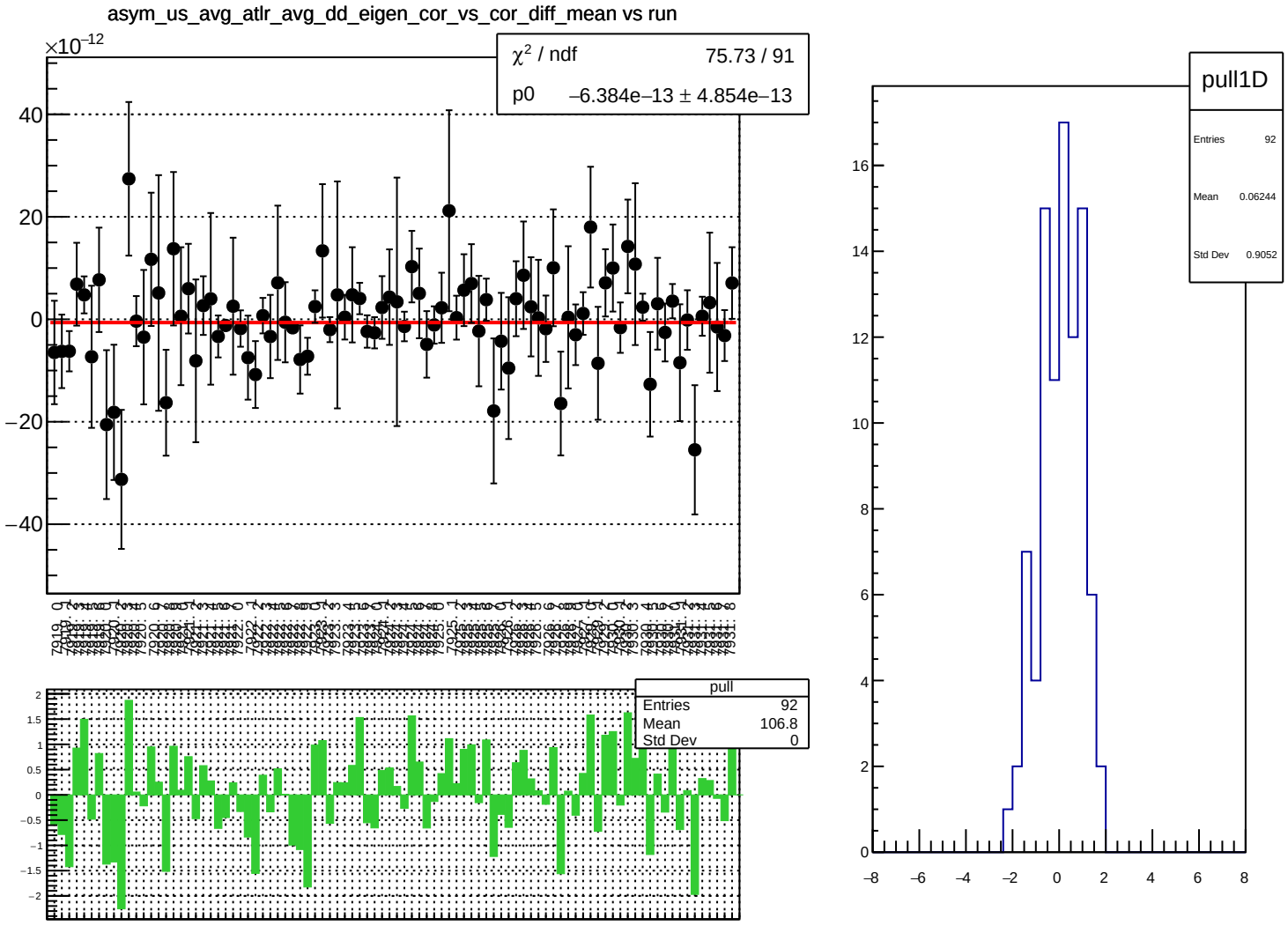

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.06 / 91
p0 0.1433 ± 0.1608
pull
Entries 92
Mean −123.4
Std Dev 0
pull1D
Entries 92
Mean −0.02221
Std Dev 0.9836

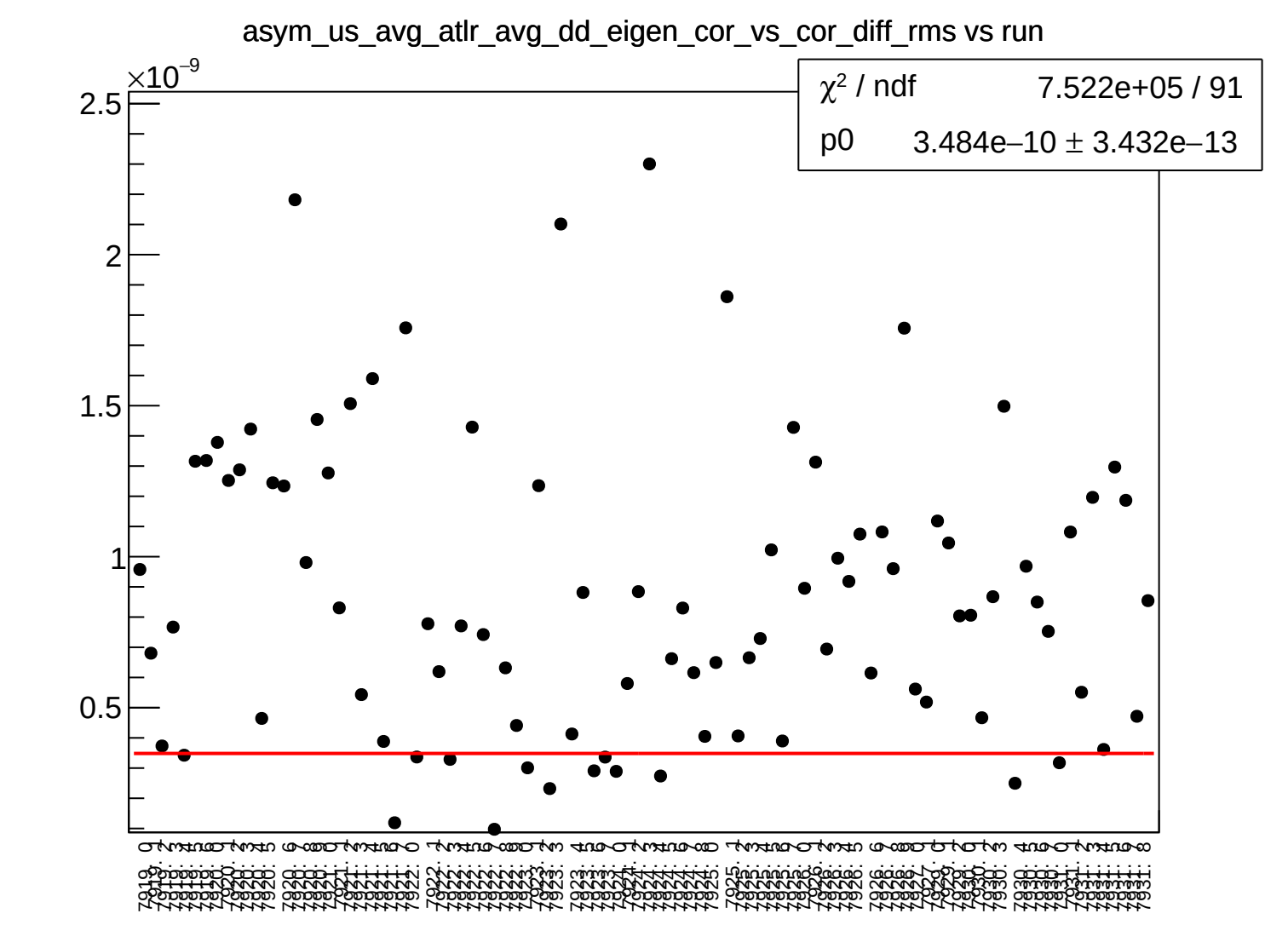

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.444e+04 / 91
p0 151.2 ± 0.1137
190
180
170
160
150
140
130
120
110

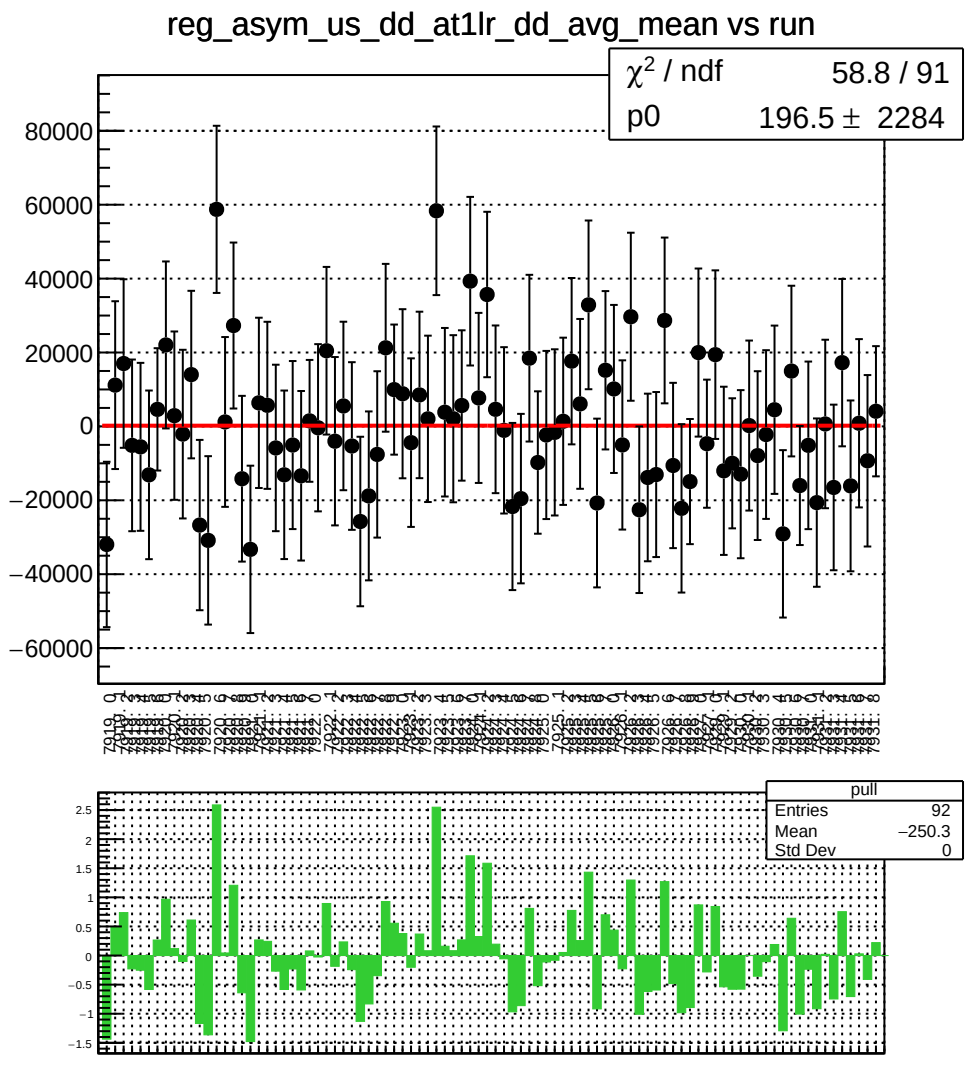

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.06 / 91
p0 0.1433 ± 0.1608
pull
Entries 92
Mean −123.4
Std Dev 0

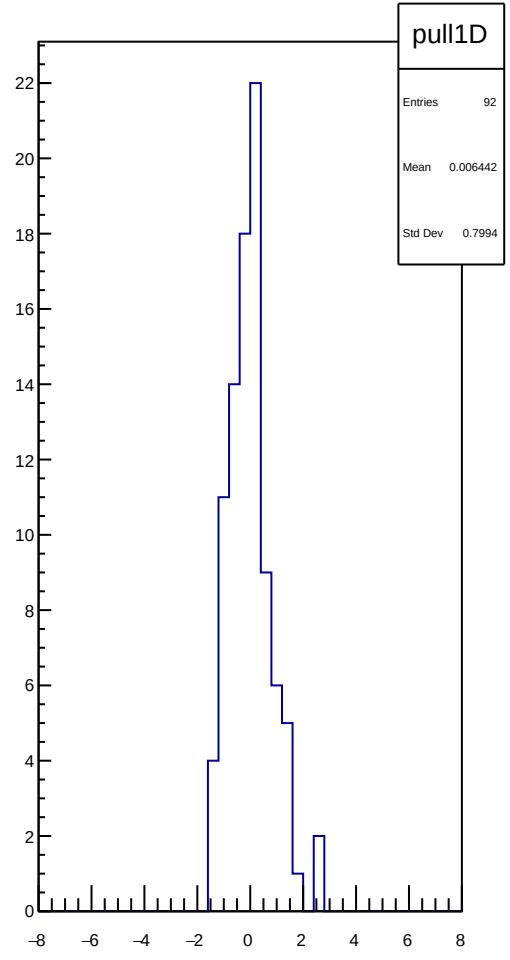

pull1D
Entries 92
Mean −0.02221
Std Dev 0.9836

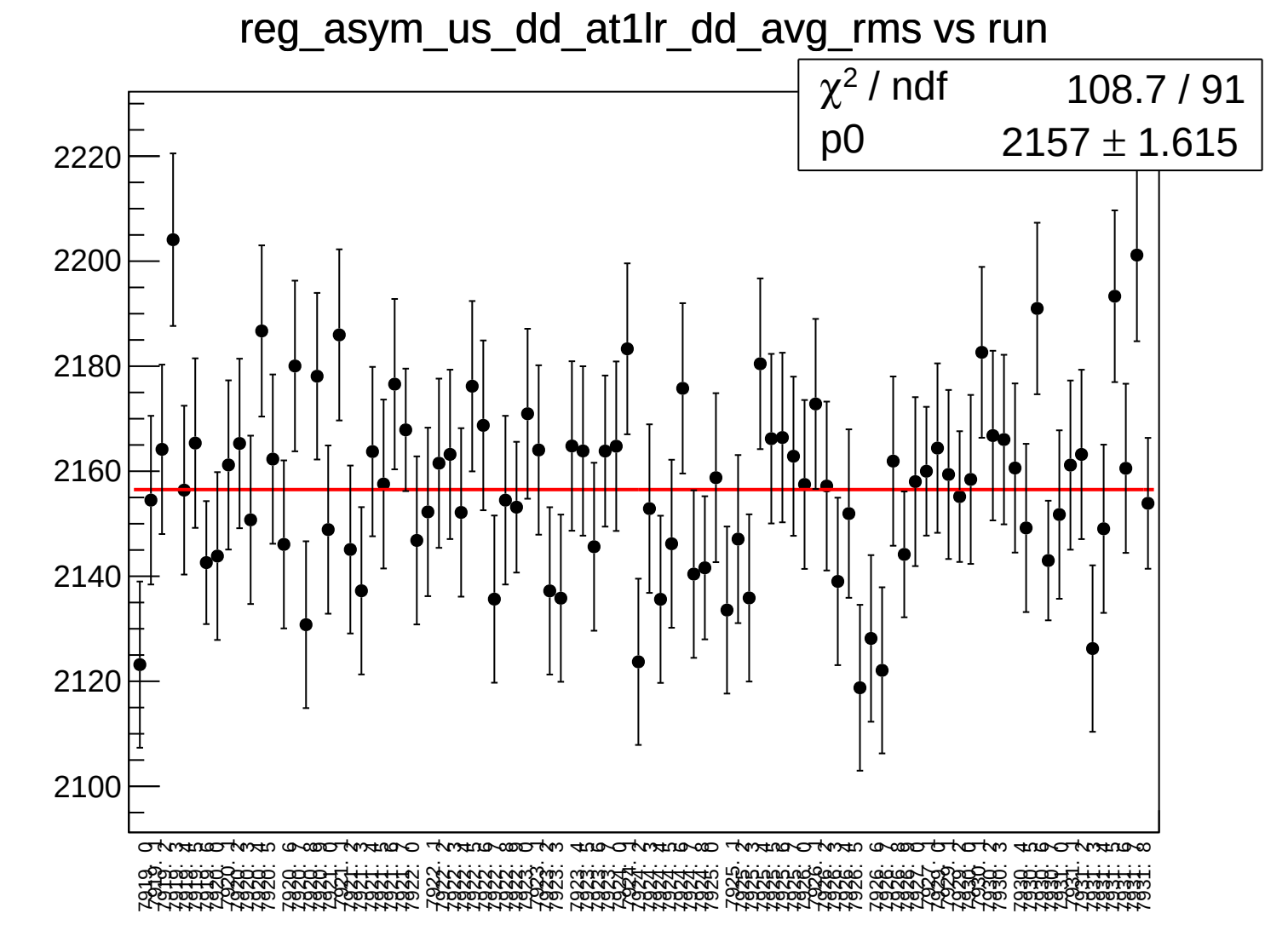

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.444e+04 / 91
p0 151.2 ± 0.1137
190
180
170
160
150
140
130
120
110

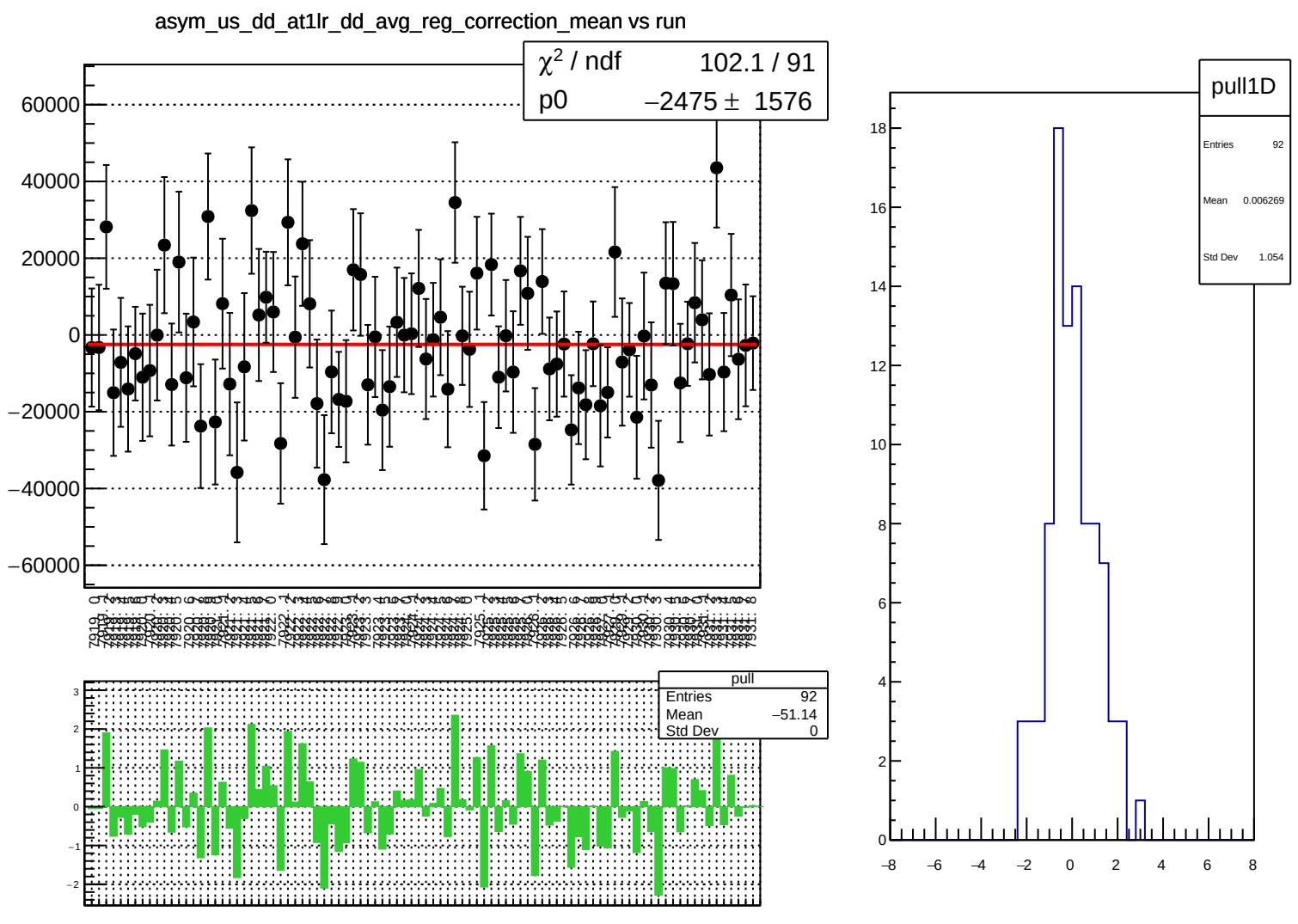

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.73 / 91
p0 −6.384e−13 ± 4.854e−13
40
20
0
−20
−40
pull
Entries 92
Mean 106.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean 0.06244
Std Dev 0.9052
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

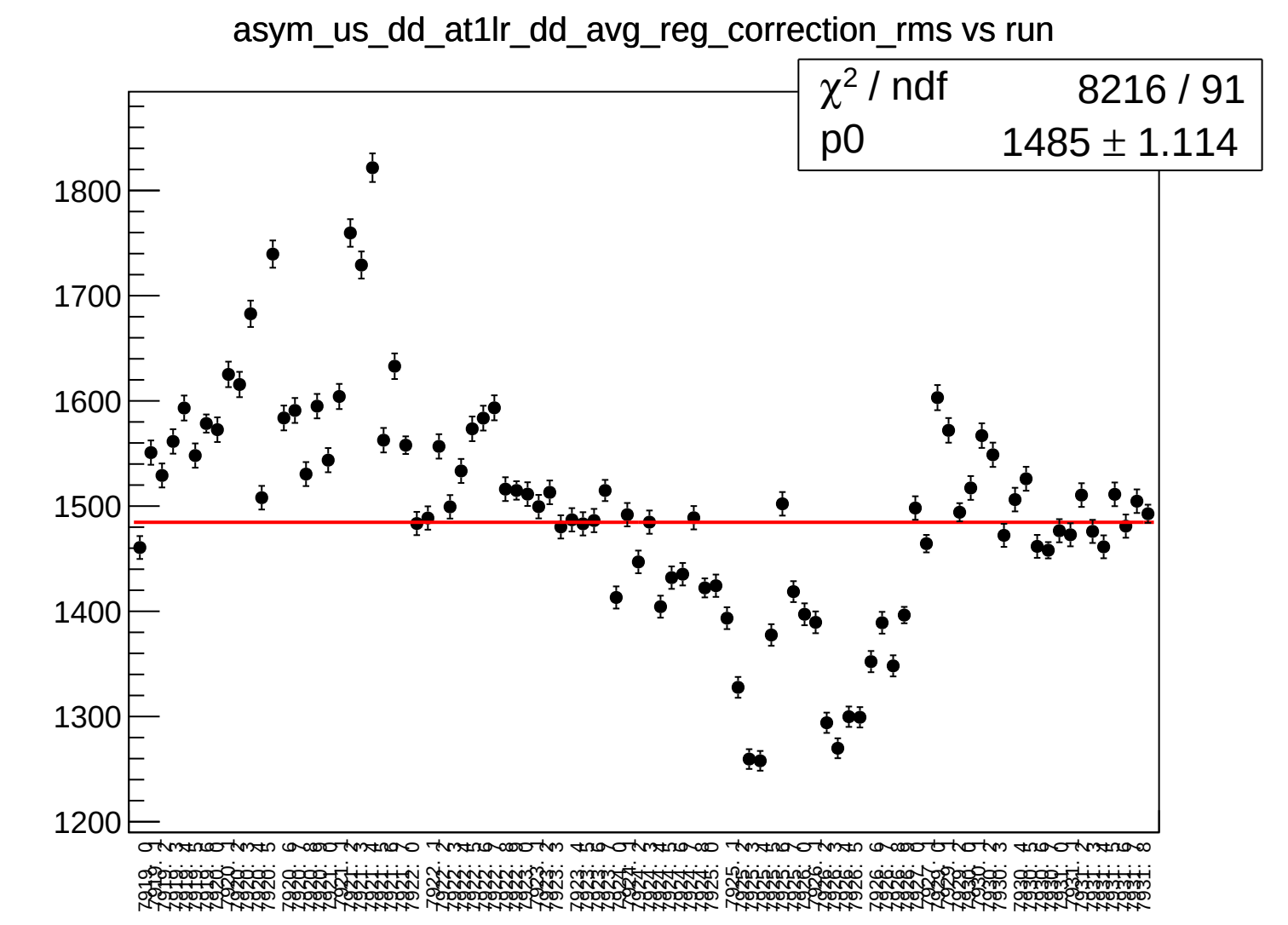

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
2.5
2
1.5
1
0.5
χ² / ndf 7.522e+05 / 91
p0 3.484e−10 ± 3.432e−13

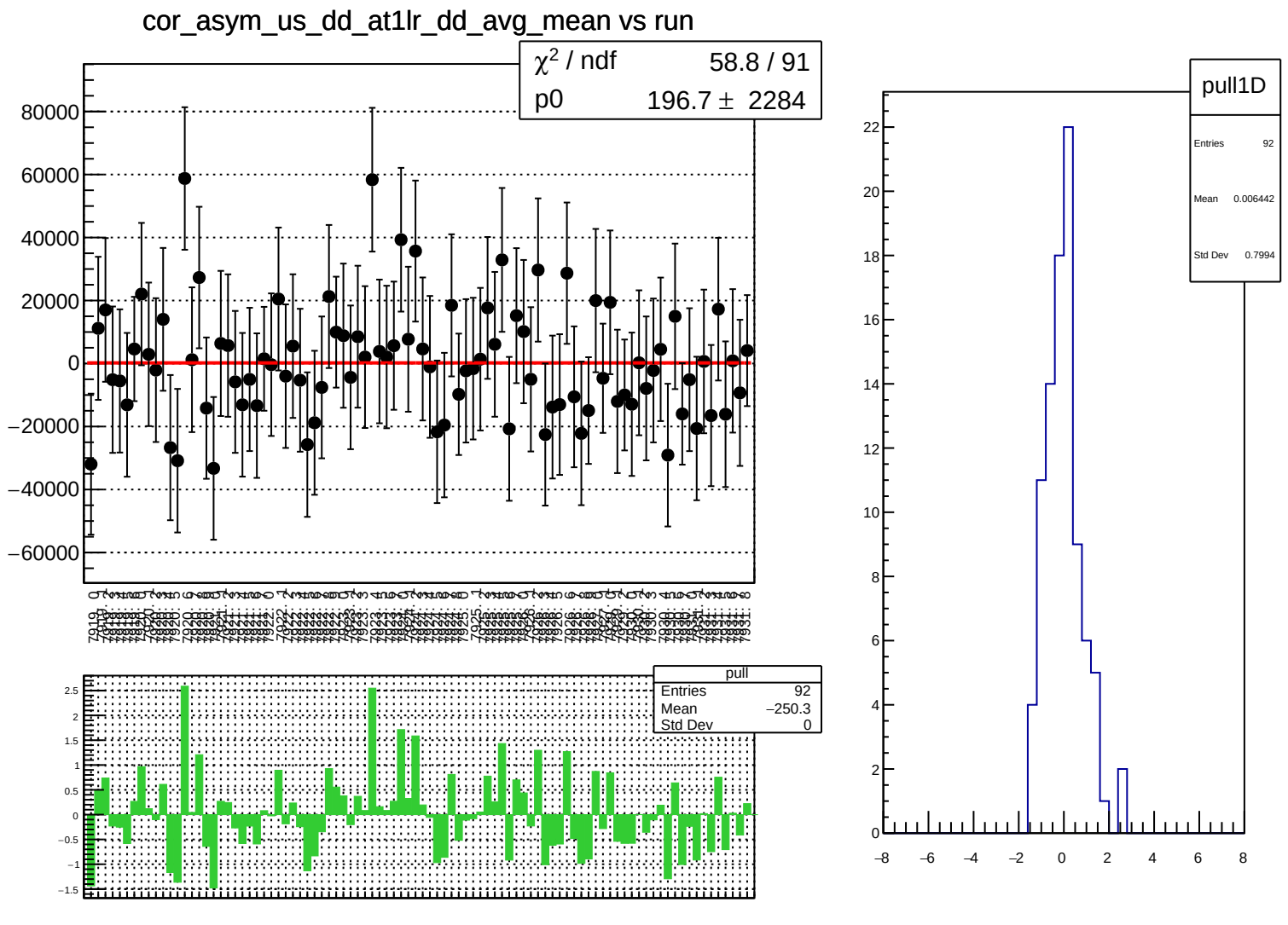

reg_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 58.8 / 91
p0 196.5 ± 2284
pull
Entries 92
Mean −250.3
Std Dev 0

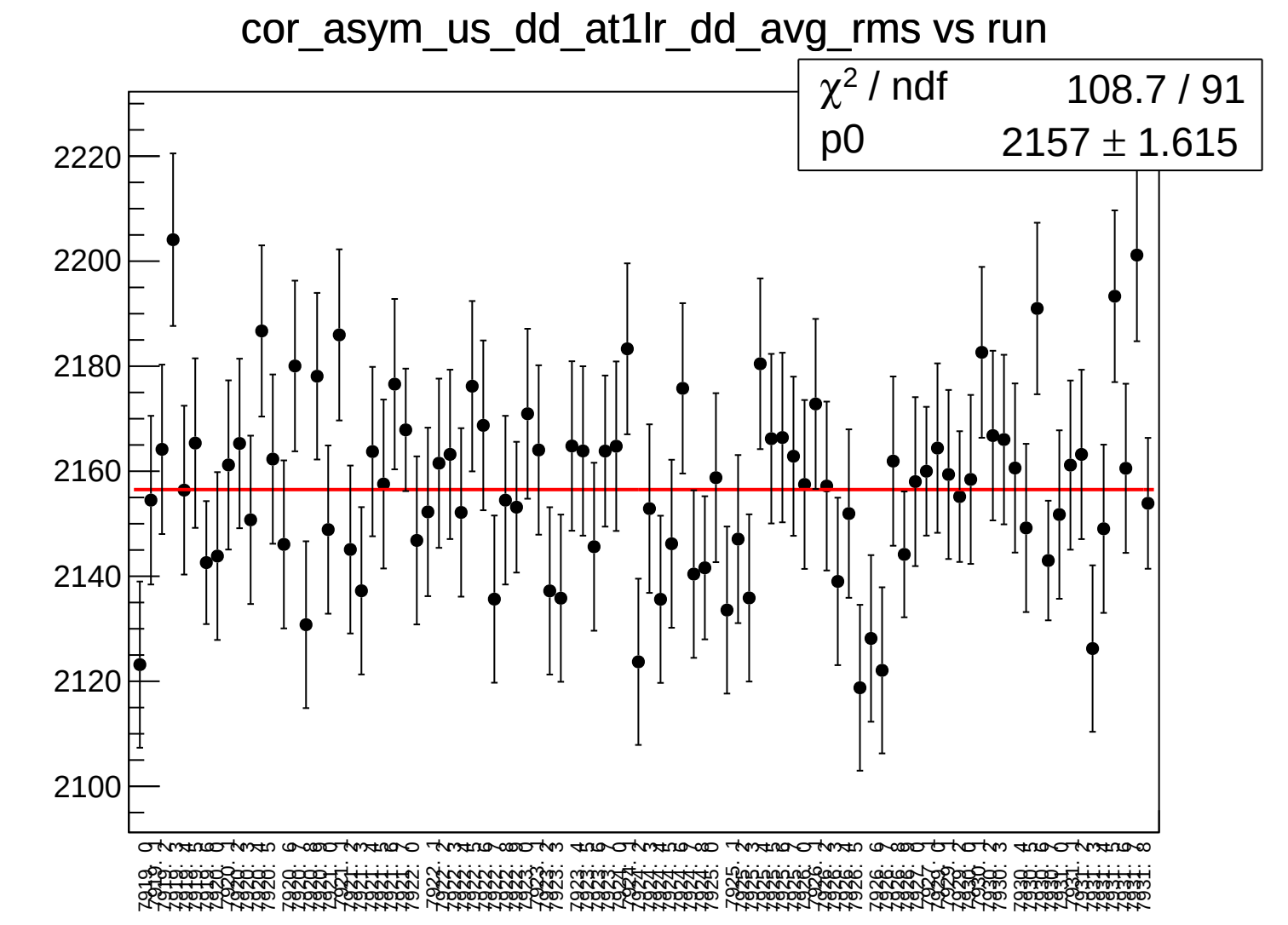

pull1D
Entries 92
Mean 0.006442
Std Dev 0.7994

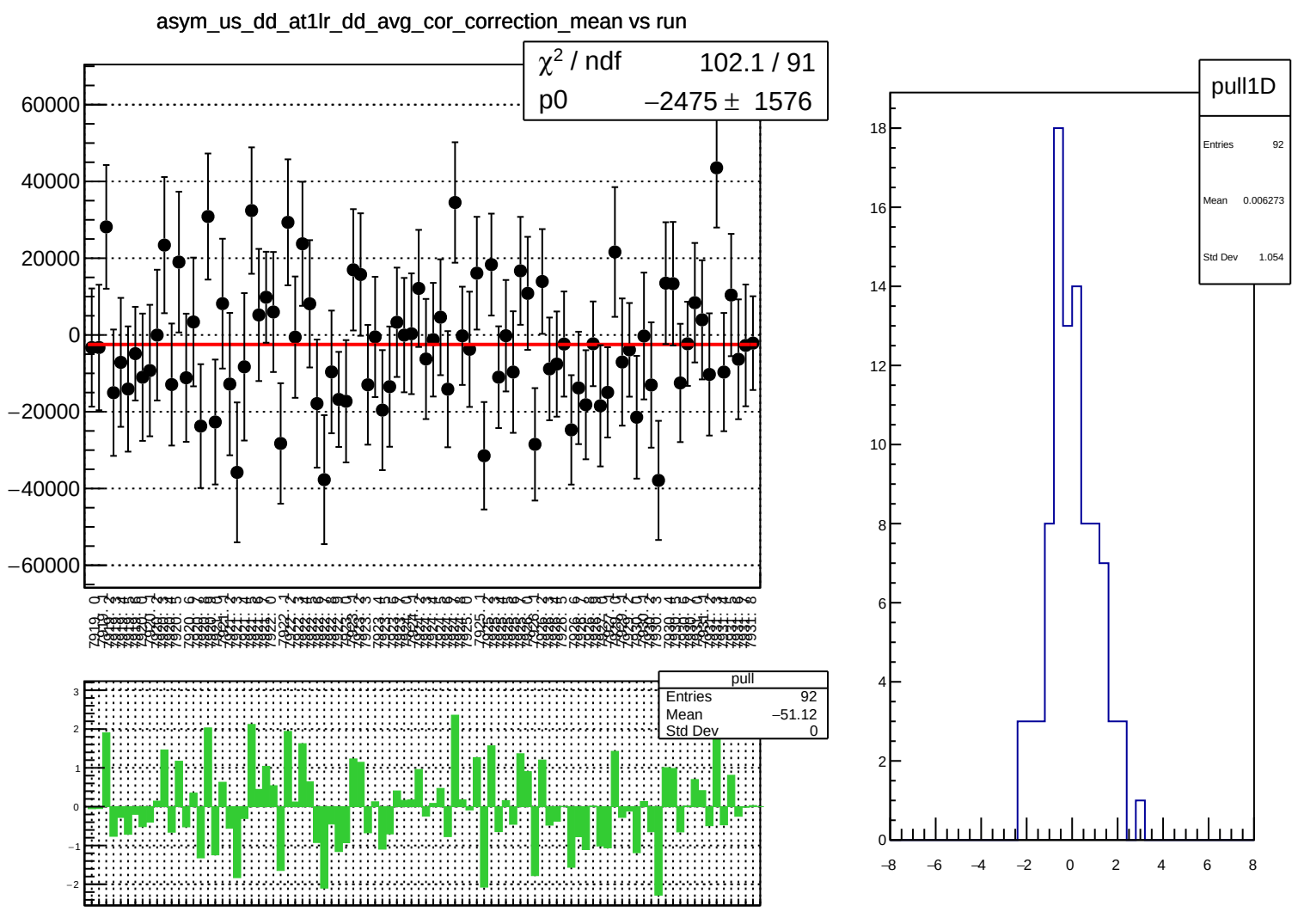

reg_asym_us_dd_at1lr_dd_avg_rms vs run
χ^2 / ndf 108.7 / 91
p0 2157 ± 1.615
2220
2200
2180
2160
2140
2120
2100

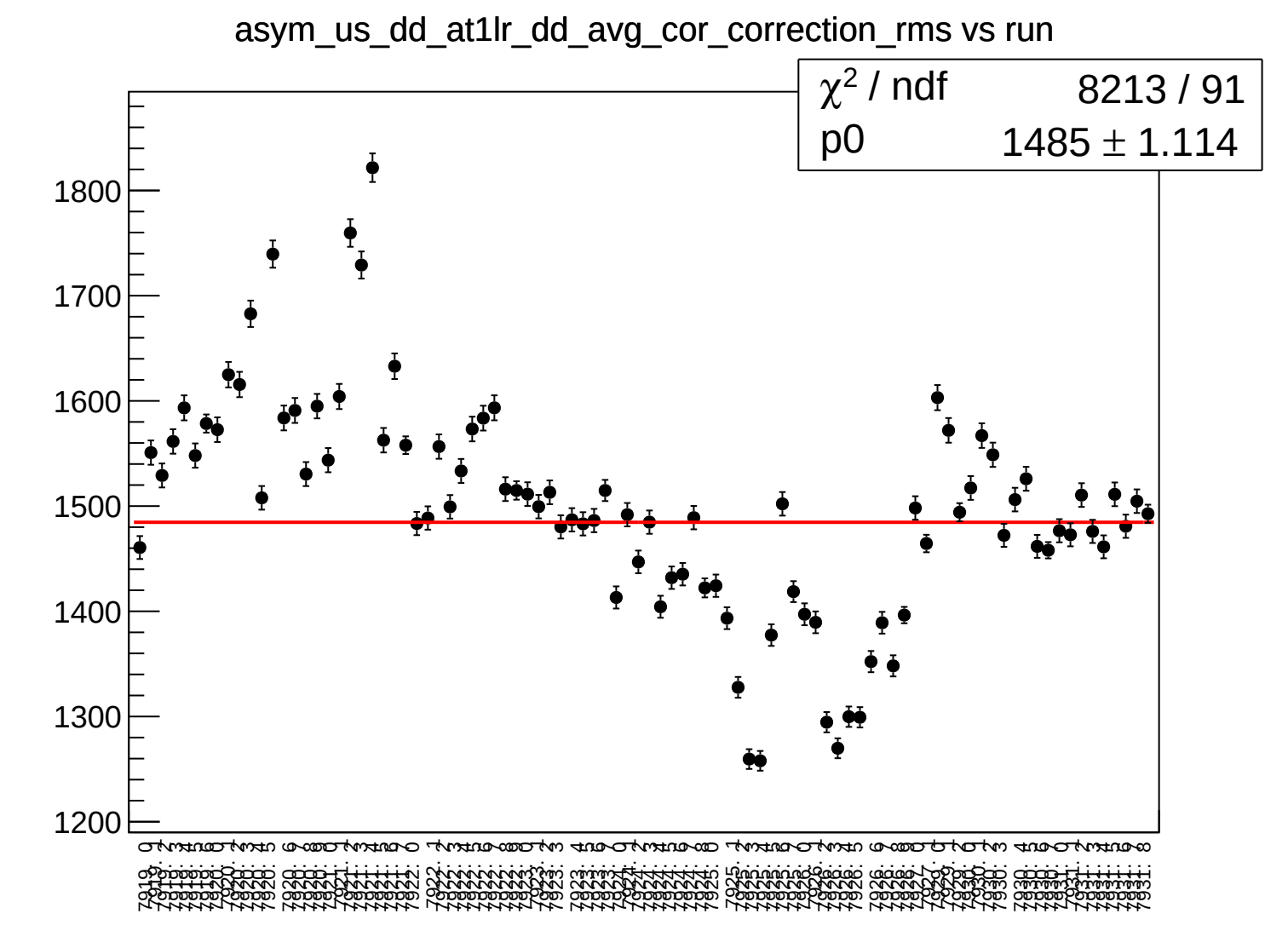

asym_us_dd_at1lr_dd_avg_reg_correction_mean vs run
χ² / ndf 102.1 / 91
p0 −2475 ± 1576
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −51.14
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.006269
Std Dev 1.054
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

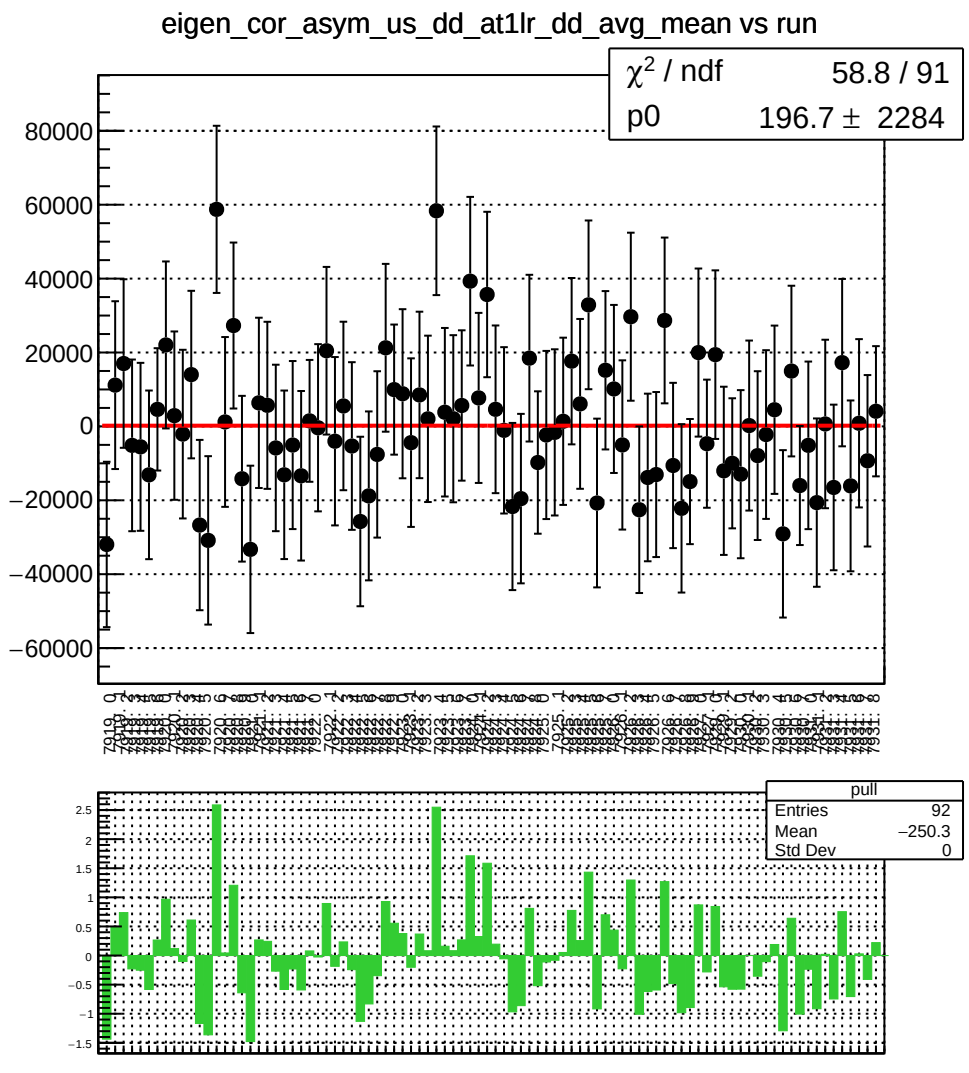

asym_us_dd_at1lr_dd_avg_reg_correction_rms vs run
χ² / ndf 8216 / 91
p0 1485 ± 1.114
1800
1700
1600
1500
1400
1300
1200

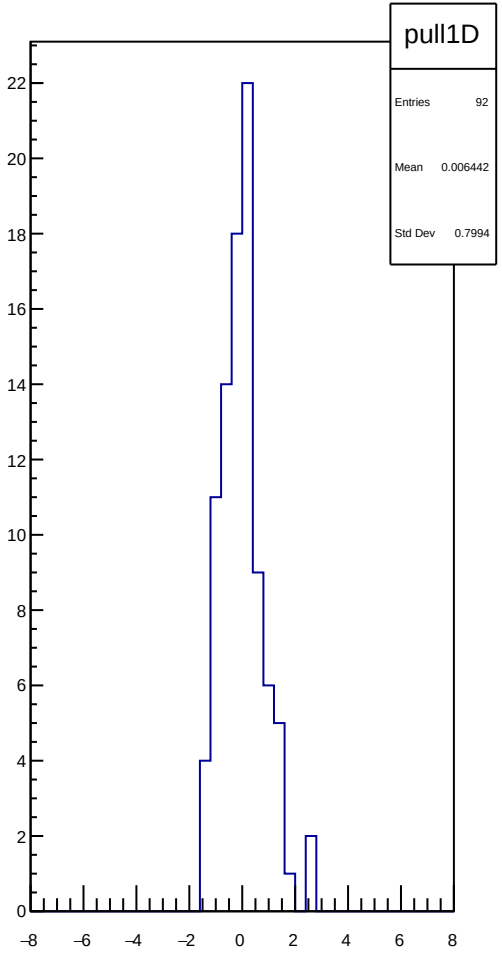

cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 58.8 / 91
p0 196.7 ± 2284
pull
Entries 92
Mean −250.3
Std Dev 0
pull1D
Entries 92
Mean 0.006442
Std Dev 0.7994

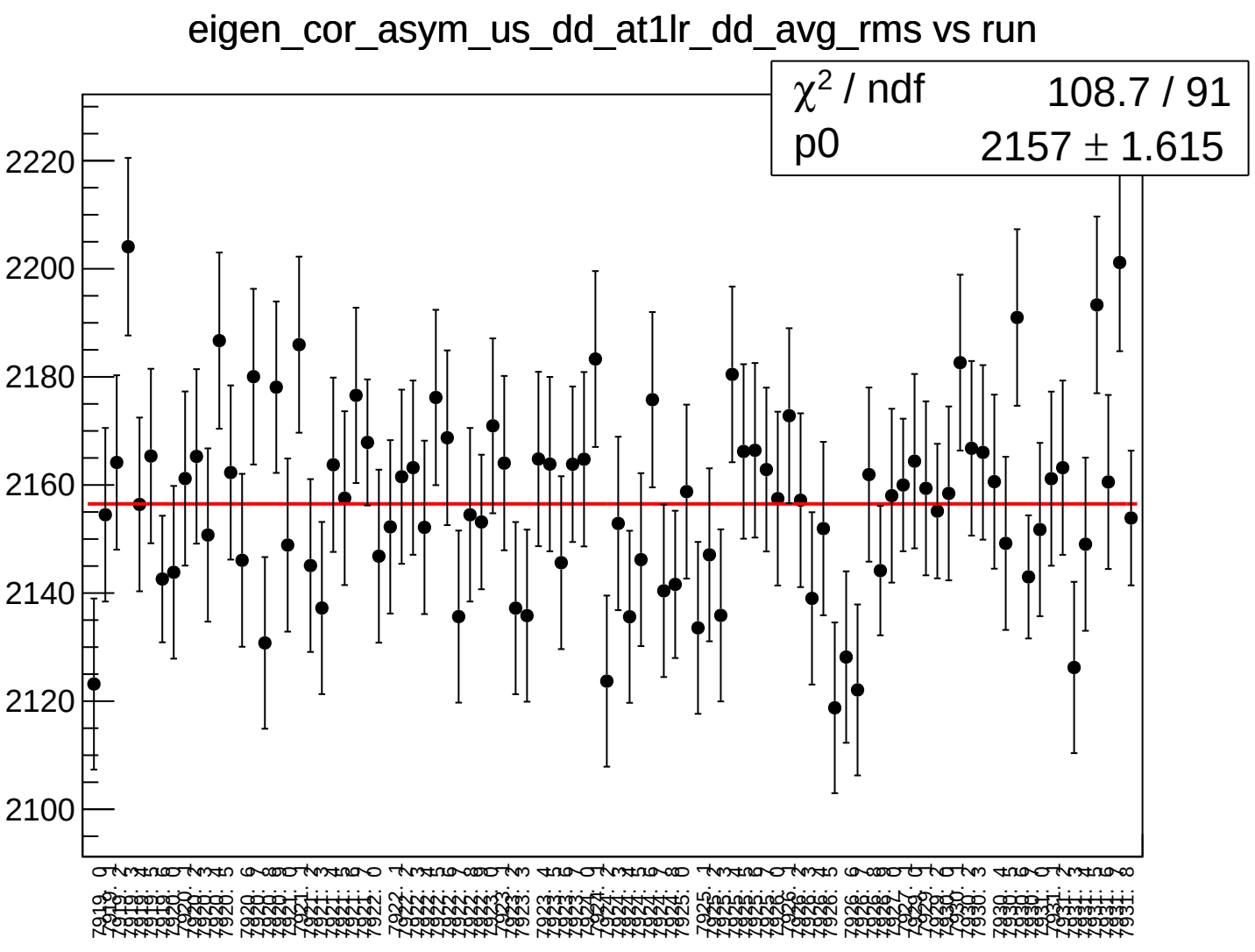

cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 108.7 / 91
p0 2157 ± 1.615
2220
2200
2180
2160
2140
2120
2100

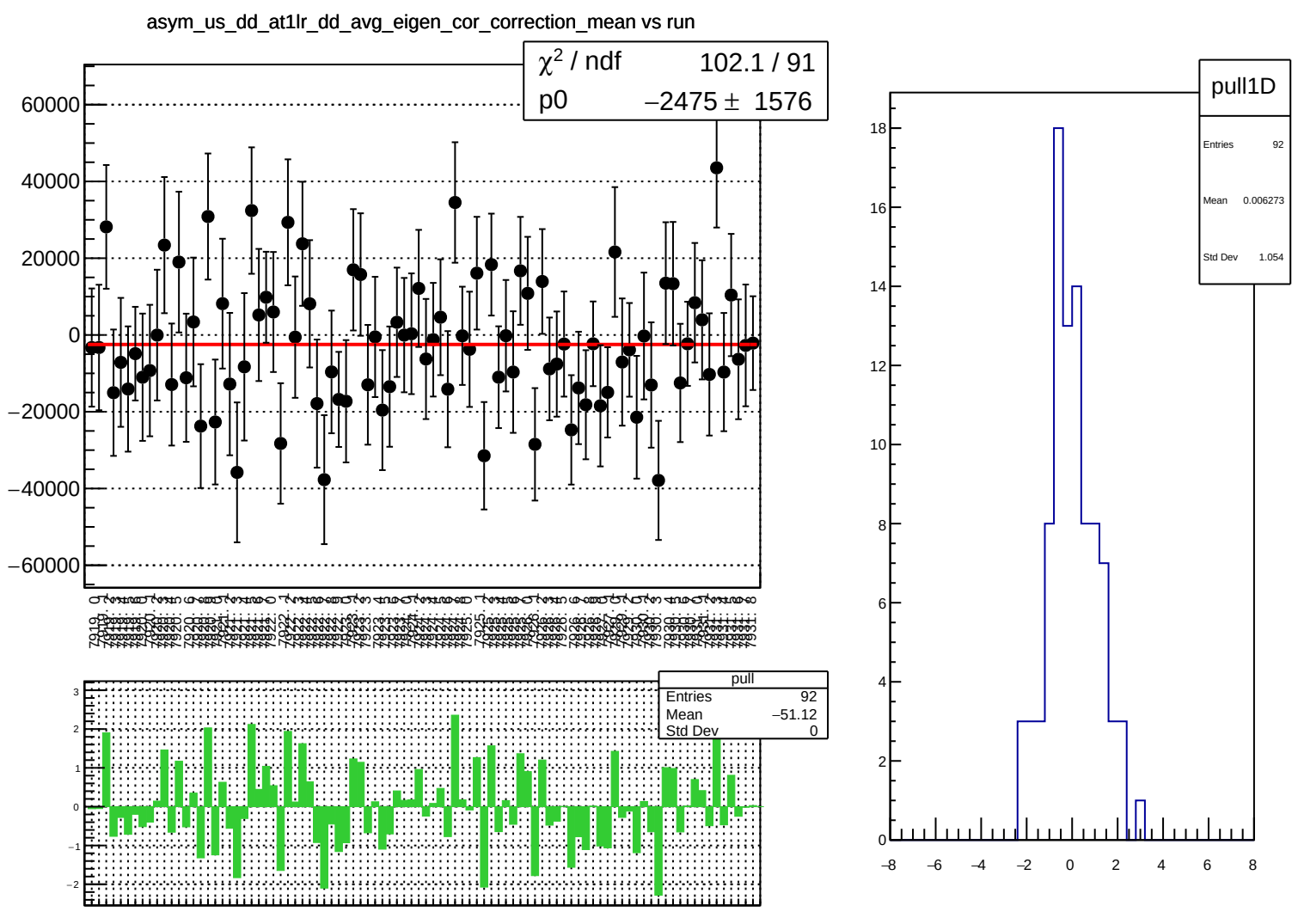

asym_us_dd_at1lr_dd_avg_cor_correction_mean vs run
χ² / ndf 102.1 / 91
p0 −2475 ± 1576
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −51.12
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.006273
Std Dev 1.054
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

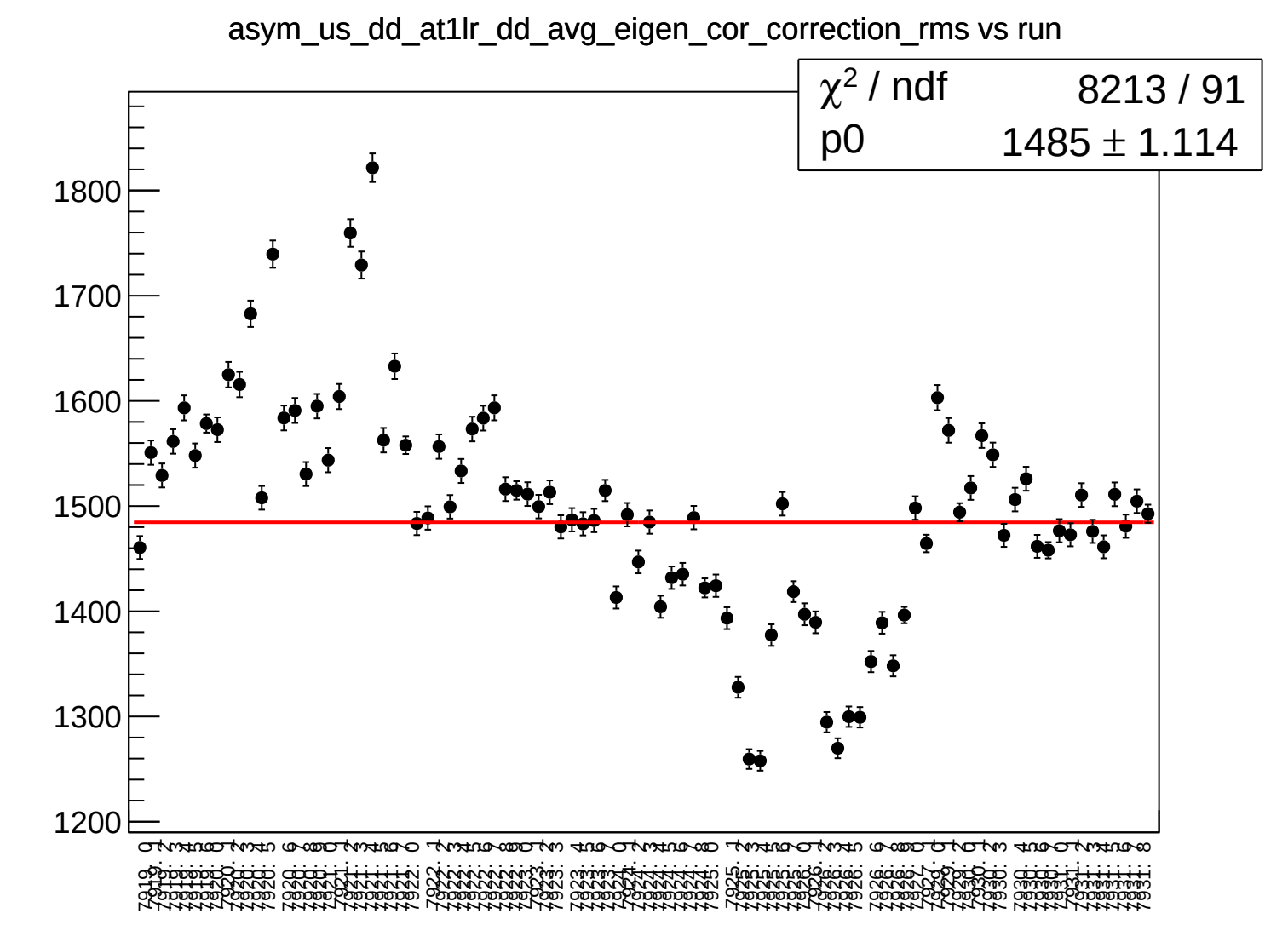

asym_us_dd_at1lr_dd_avg_cor_correction_rms vs run
χ² / ndf 8213 / 91
p0 1485 ± 1.114
1800
1700
1600
1500
1400
1300
1200

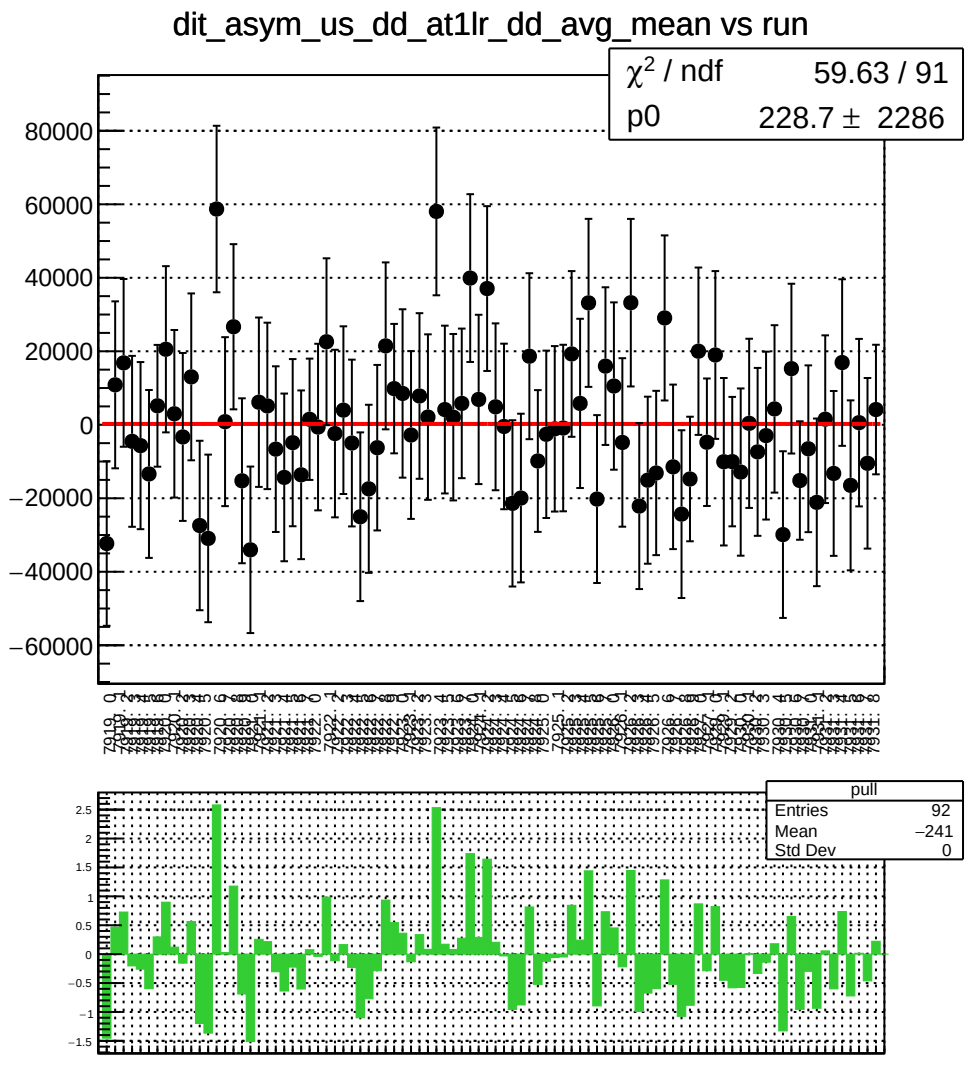

eigen_cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 58.8 / 91
p0 196.7 ± 2284
pull
Entries 92
Mean −250.3
Std Dev 0

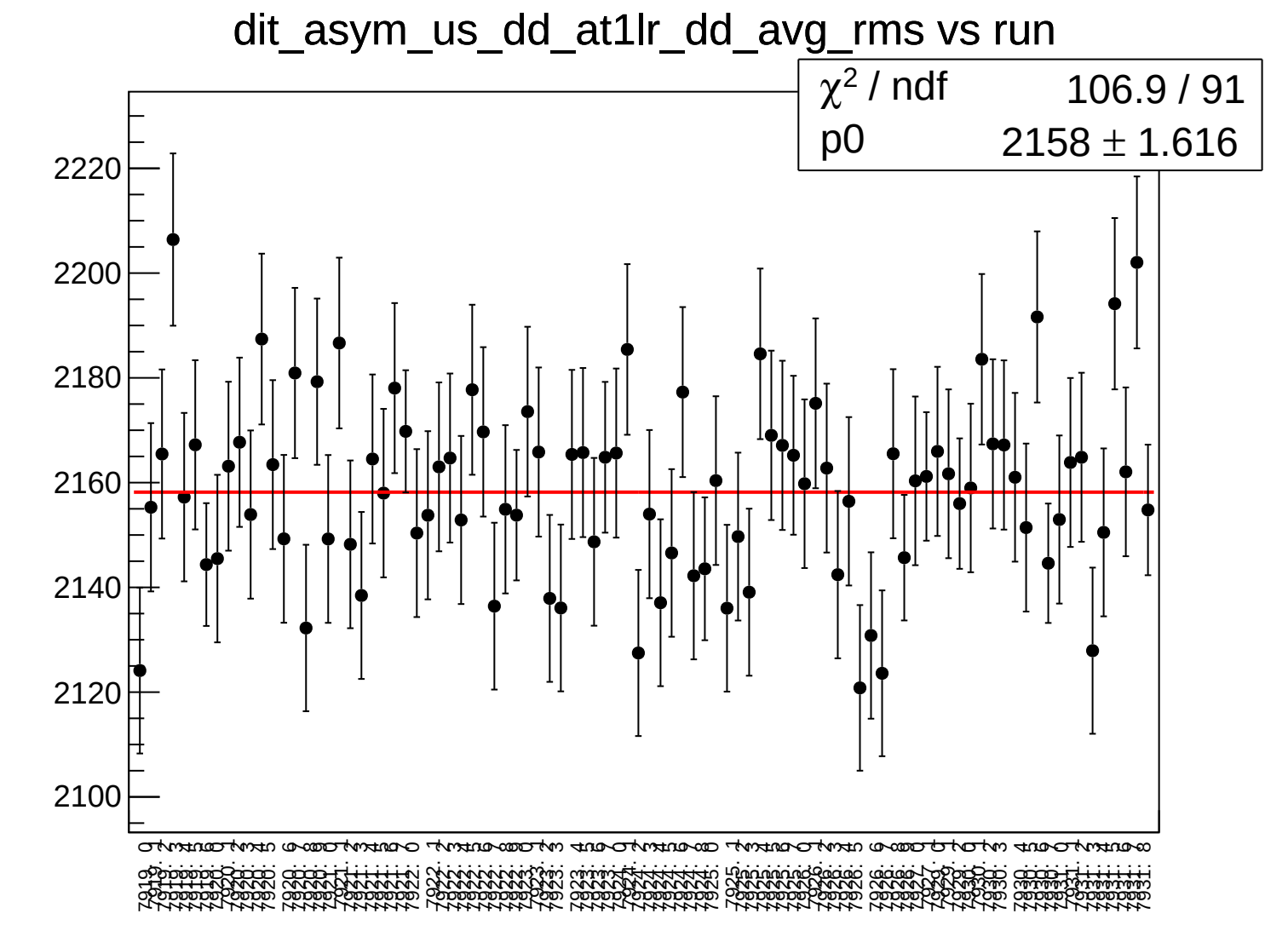

pull1D
Entries 92
Mean 0.006442
Std Dev 0.7994

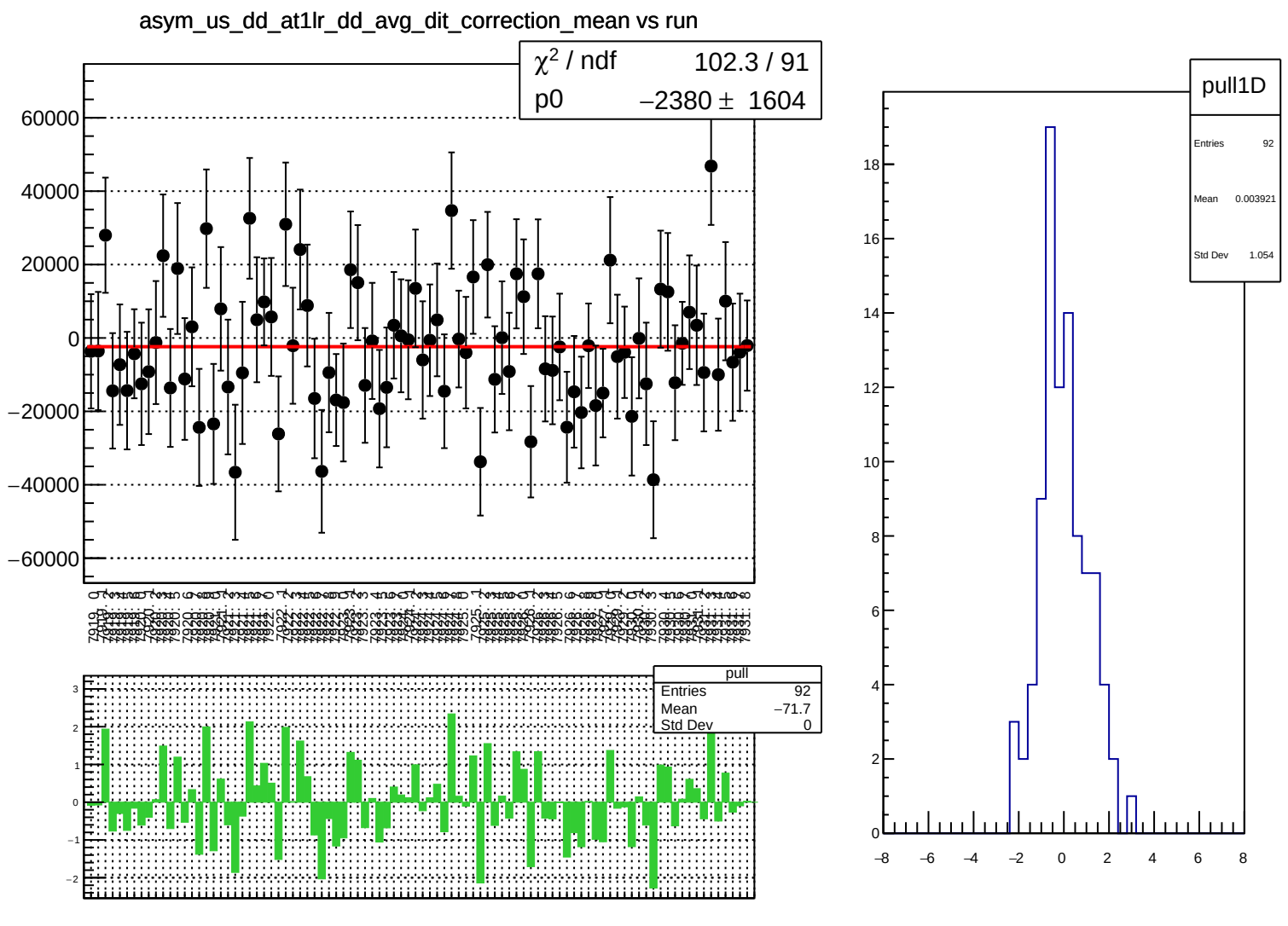

eigen_cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 108.7 / 91
p0 2157 ± 1.615
2220
2200
2180
2160
2140
2120
2100

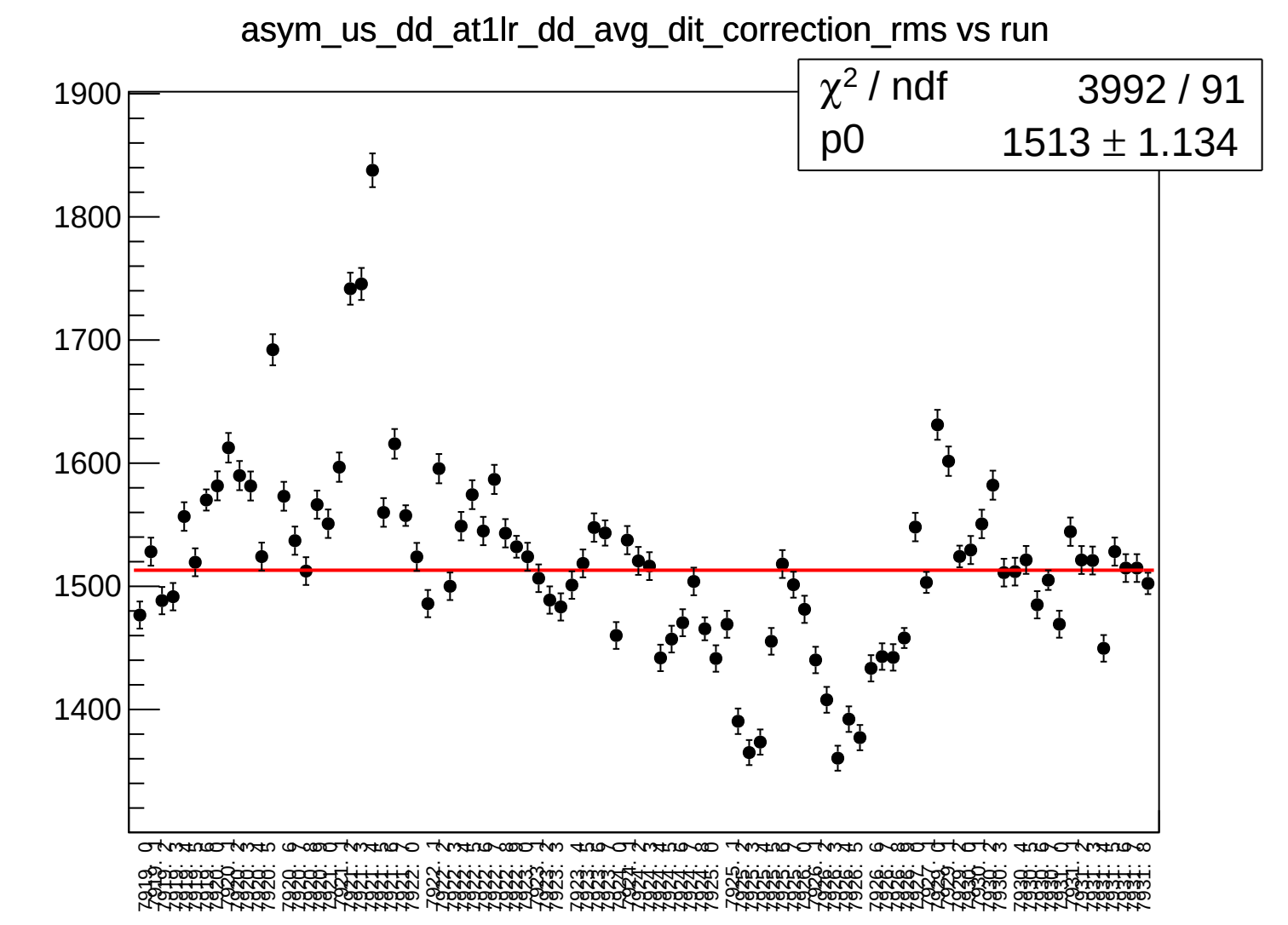

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 102.1 / 91
p0 −2475 ± 1576
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −51.12
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.006273
Std Dev 1.054
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

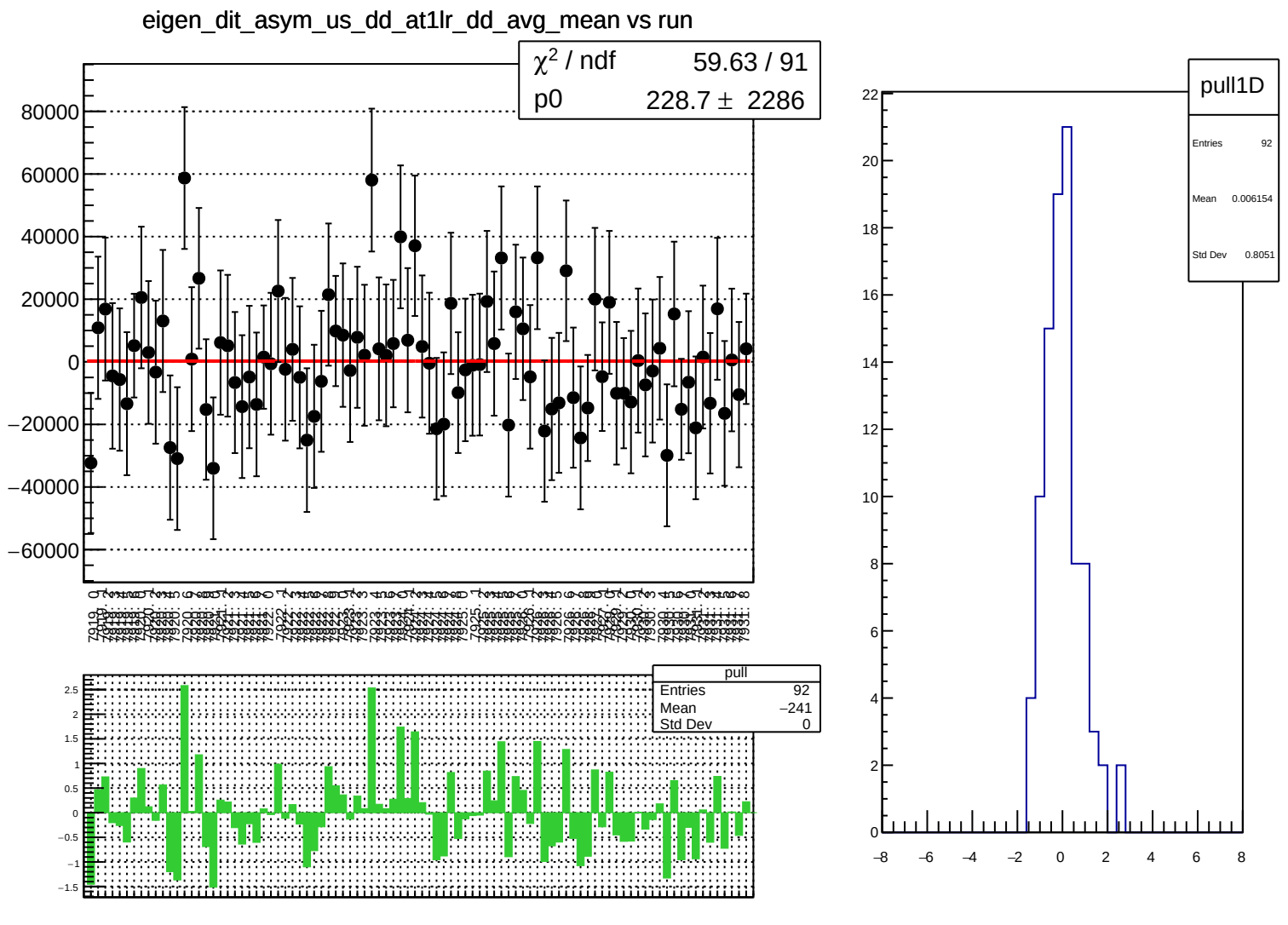

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 8213 / 91
p0 1485 ± 1.114
1800
1700
1600
1500
1400
1300
1200

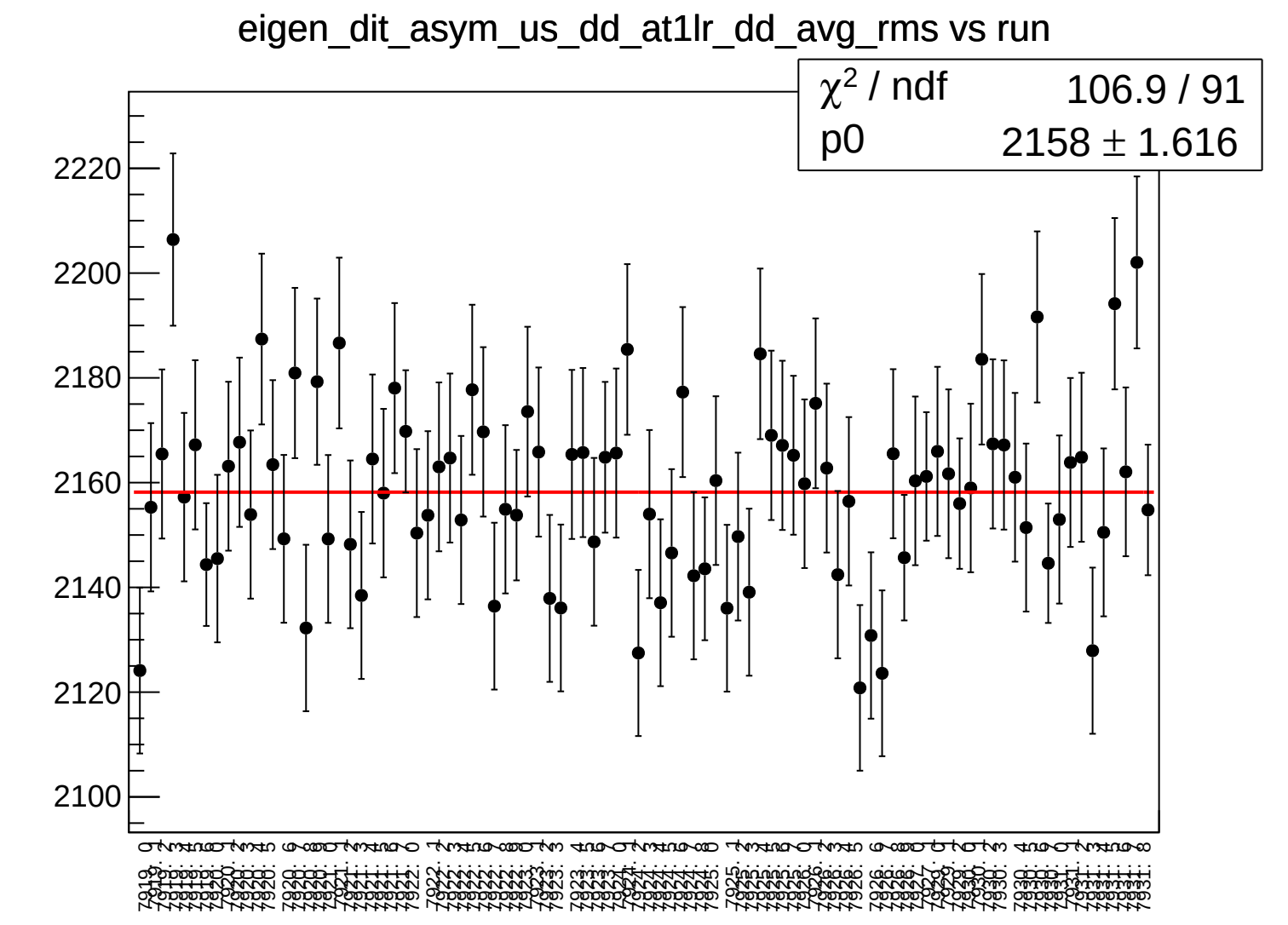

dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ^2 / ndf 59.63 / 91
p0 228.7 ± 2286
pull
Entries 92
Mean −241
Std Dev 0
pull1D
Entries 92
Mean 0.006154
Std Dev 0.8051

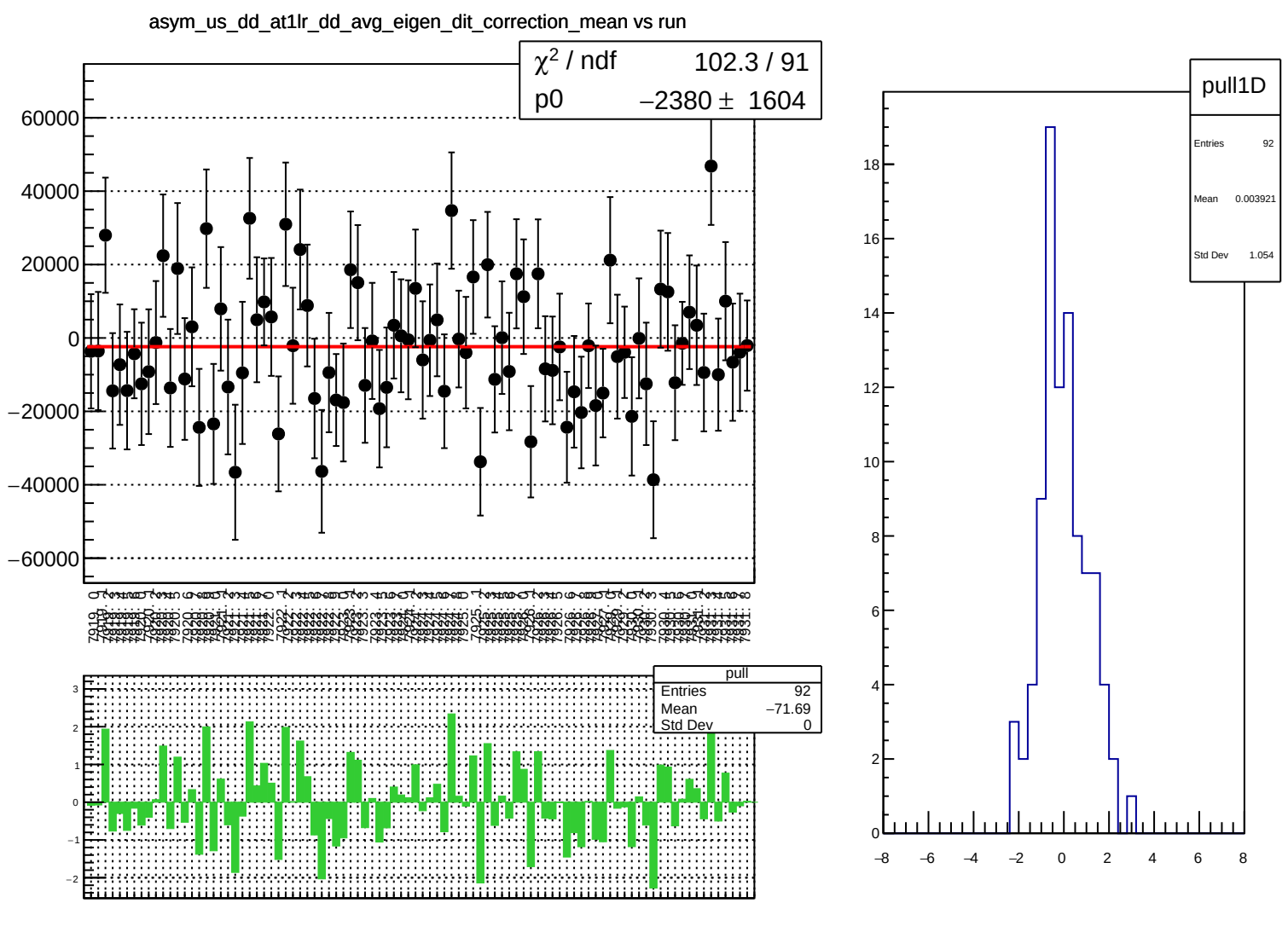

dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ^2 / ndf 106.9 / 91
p0 2158 ± 1.616
2220
2200
2180
2160
2140
2120
2100

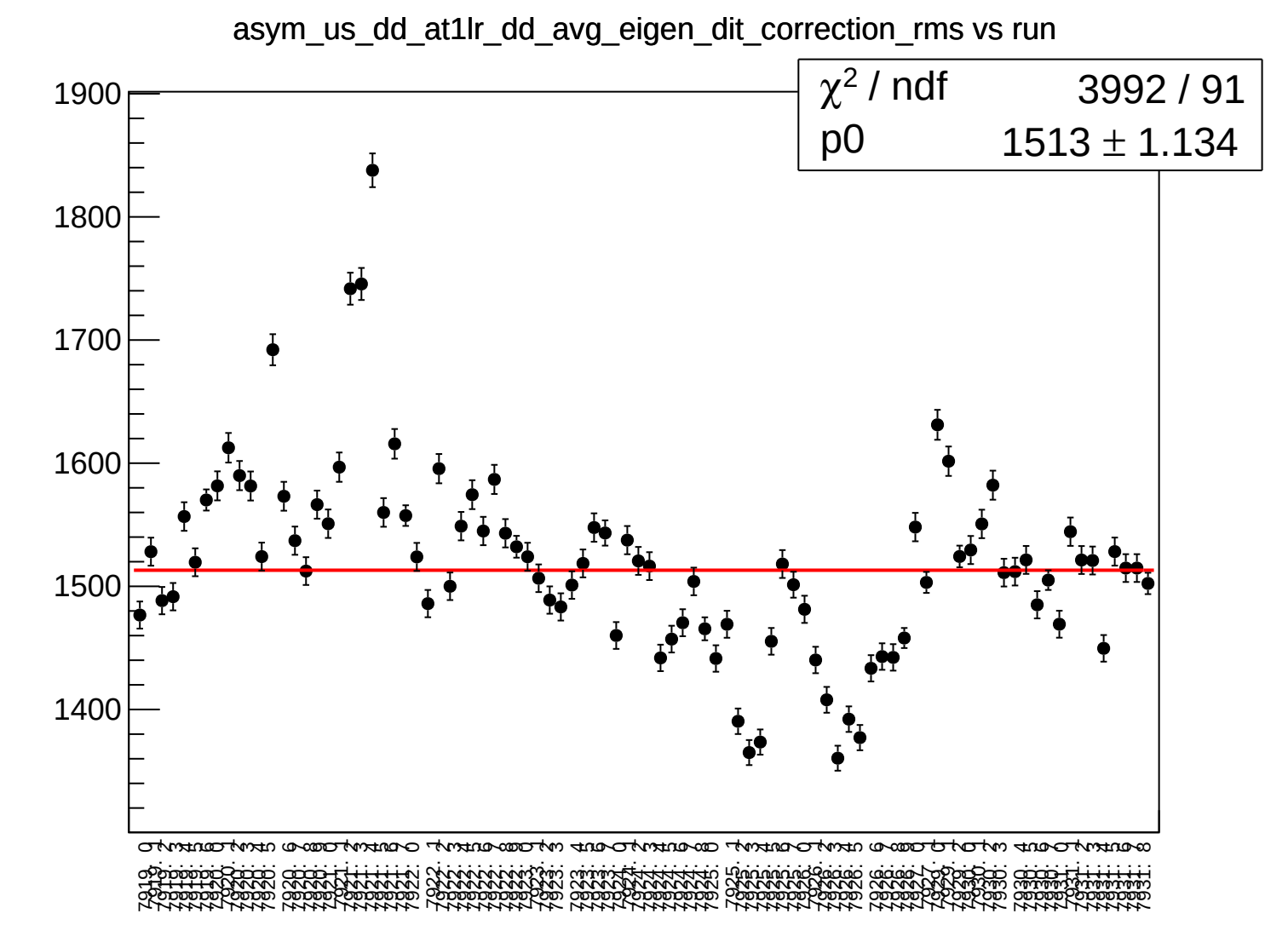

asym_us_dd_at1lr_dd_avg_dit_correction_mean vs run
χ² / ndf 102.3 / 91
p0 −2380 ± 1604
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −71.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.003921
Std Dev 1.054
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

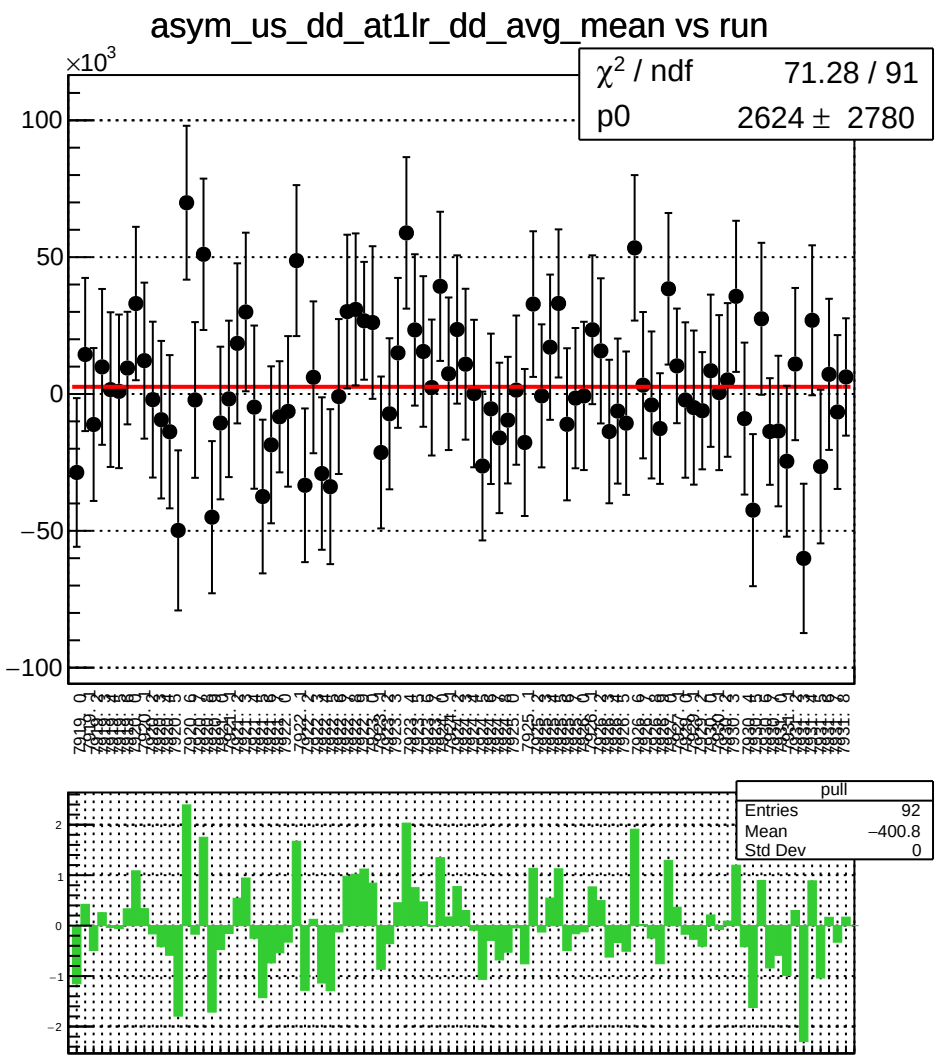

asym_us_dd_at1lr_dd_avg_dit_correction_rms vs run
χ² / ndf 3992 / 91
p0 1513 ± 1.134
1900
1800
1700
1600
1500
1400

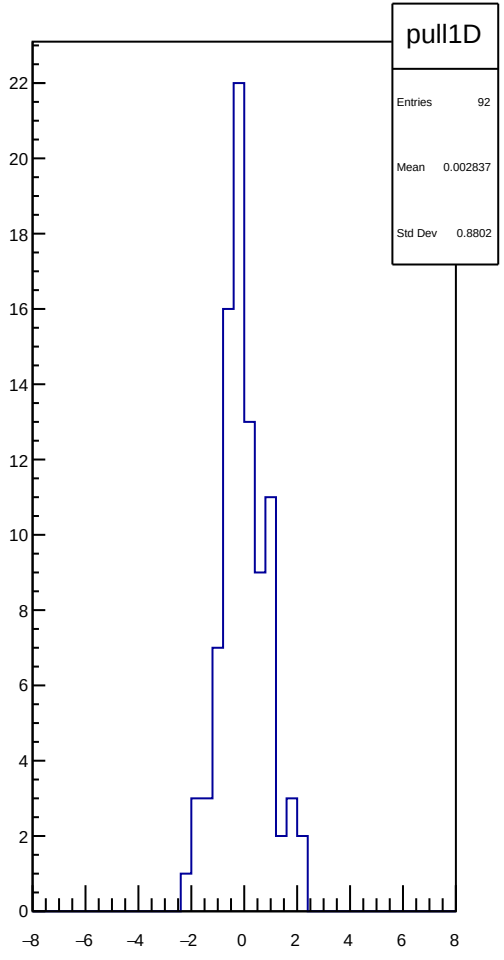

eigen_dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 59.63 / 91
p0 228.7 ± 2286
pull
Entries 92
Mean −241
Std Dev 0
pull1D
Entries 92
Mean 0.006154
Std Dev 0.8051

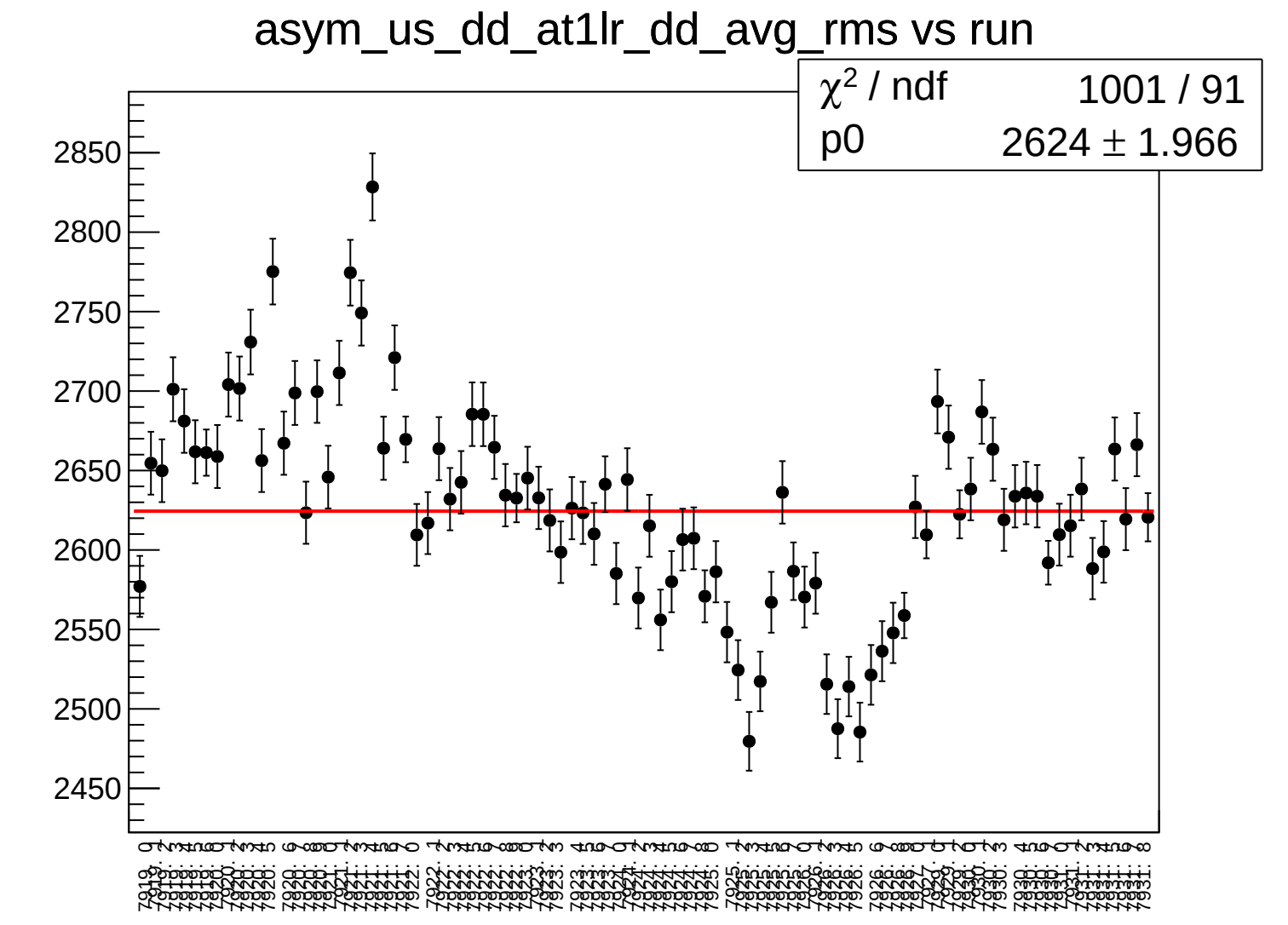

eigen_dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ^2 / ndf 106.9 / 91
p0 2158 ± 1.616
2220
2200
2180
2160
2140
2120
2100

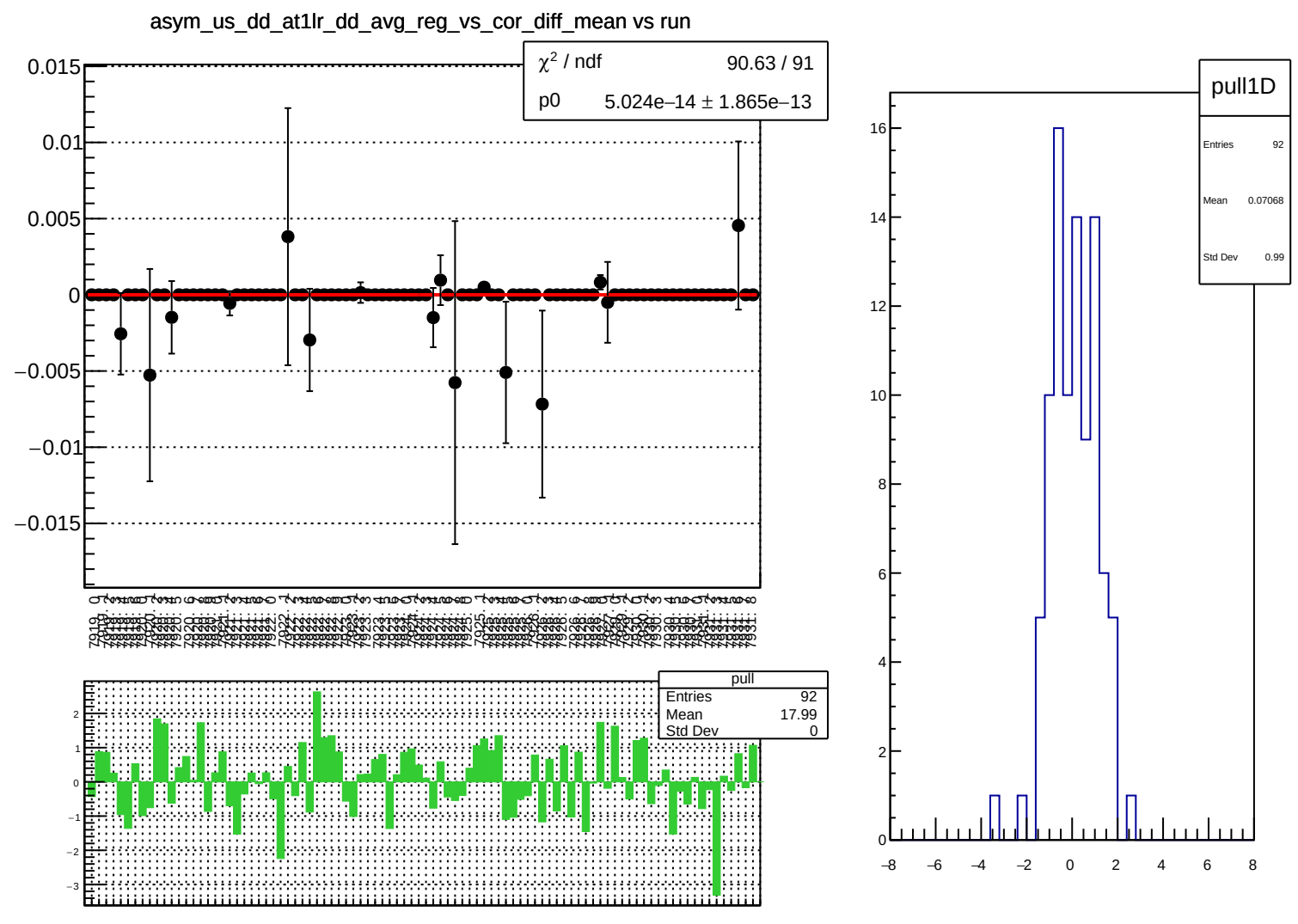

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 102.3 / 91
p0 −2380 ± 1604
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −71.69
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.003921
Std Dev 1.054
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

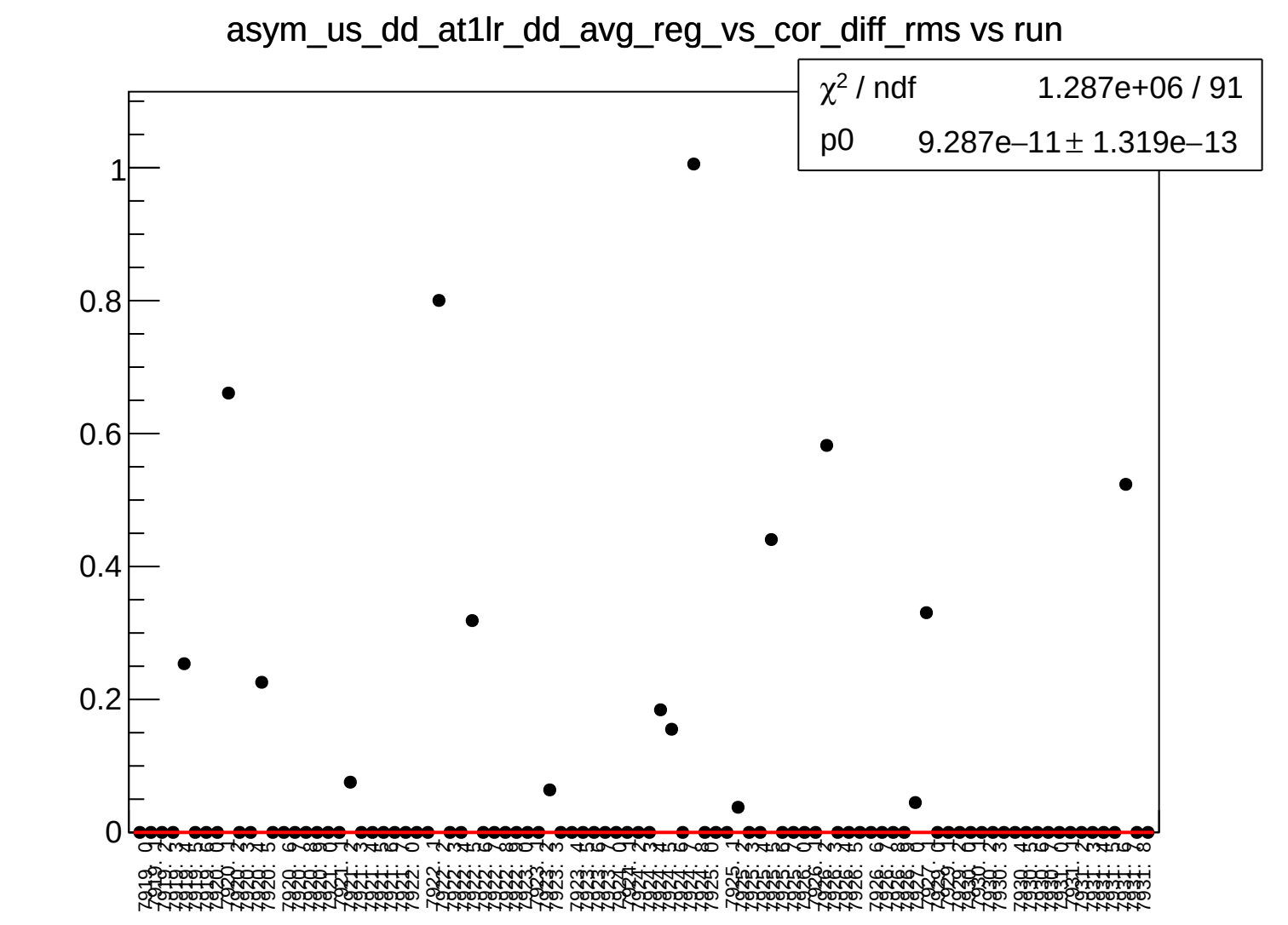

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 3992 / 91
p0 1513 ± 1.134
1900
1800
1700
1600
1500
1400

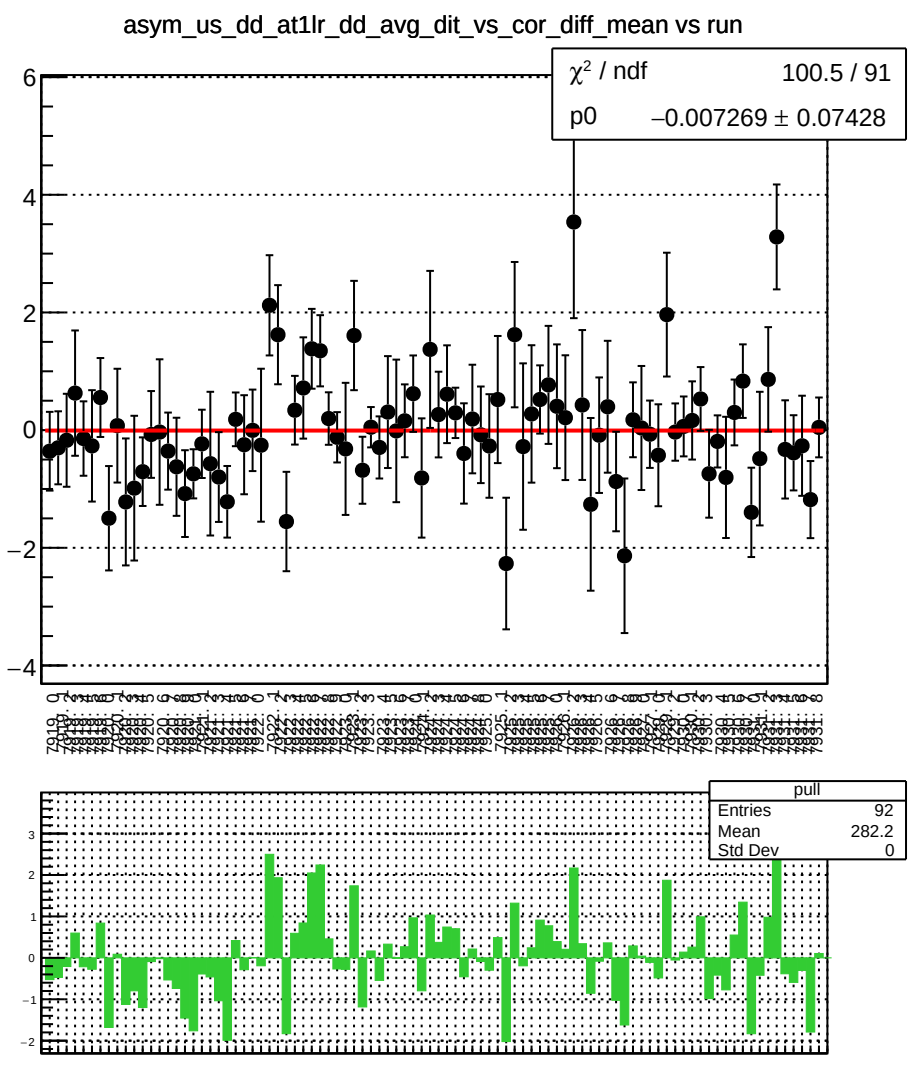

asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 71.28 / 91
p0 2624 ± 2780
100
50
0
−50
−100
pull
Entries 92
Mean −400.8
Std Dev 0
2
1
0
−1
−2

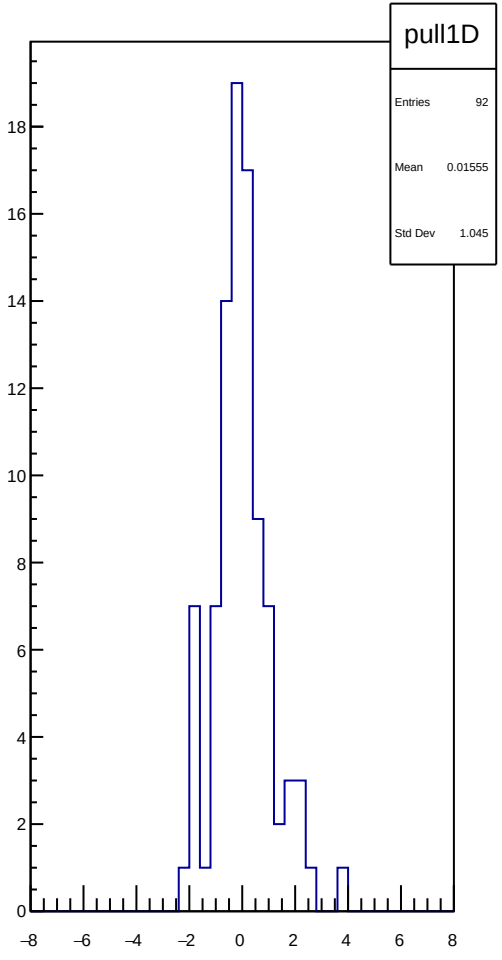

pull1D
Entries 92
Mean 0.002837
Std Dev 0.8802
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

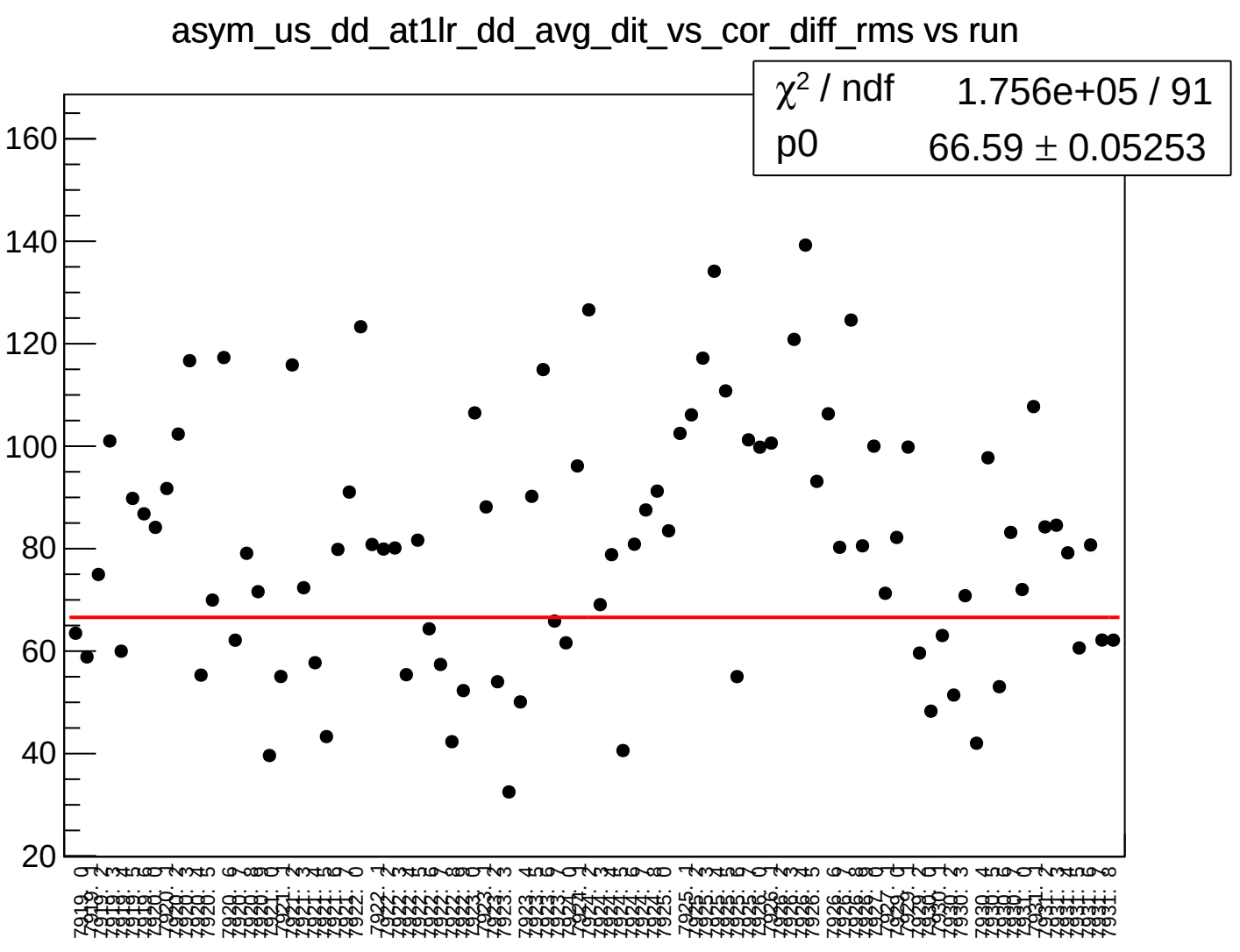

asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 1001 / 91
p0 2624 ± 1.966
2850
2800
2750
2700
2650
2600
2550
2500
2450

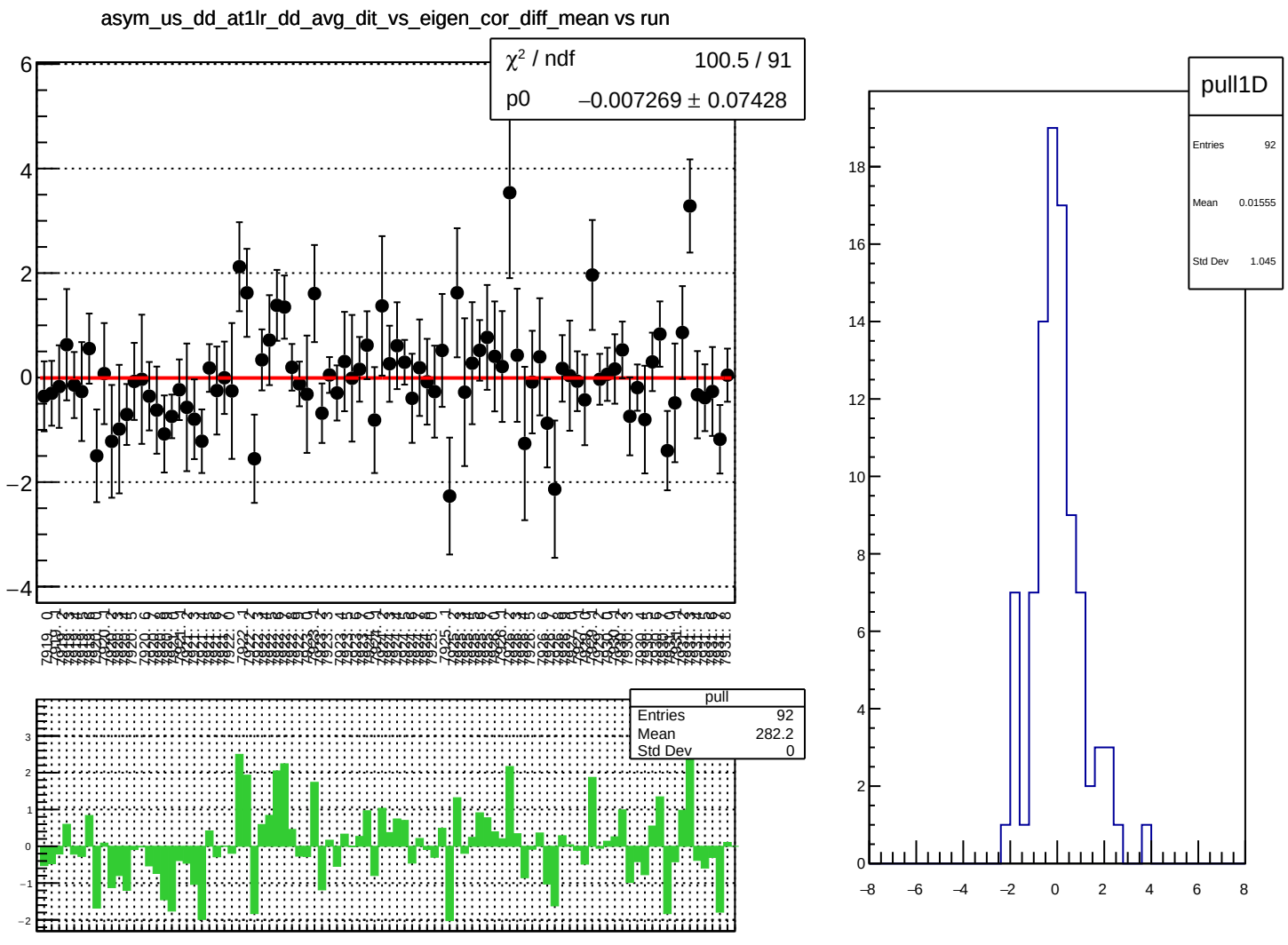

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 90.63 / 91
p0 5.024e−14 ± 1.865e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 92
Mean 17.99
Std Dev 0
pull1D
Entries 92
Mean 0.07068
Std Dev 0.99

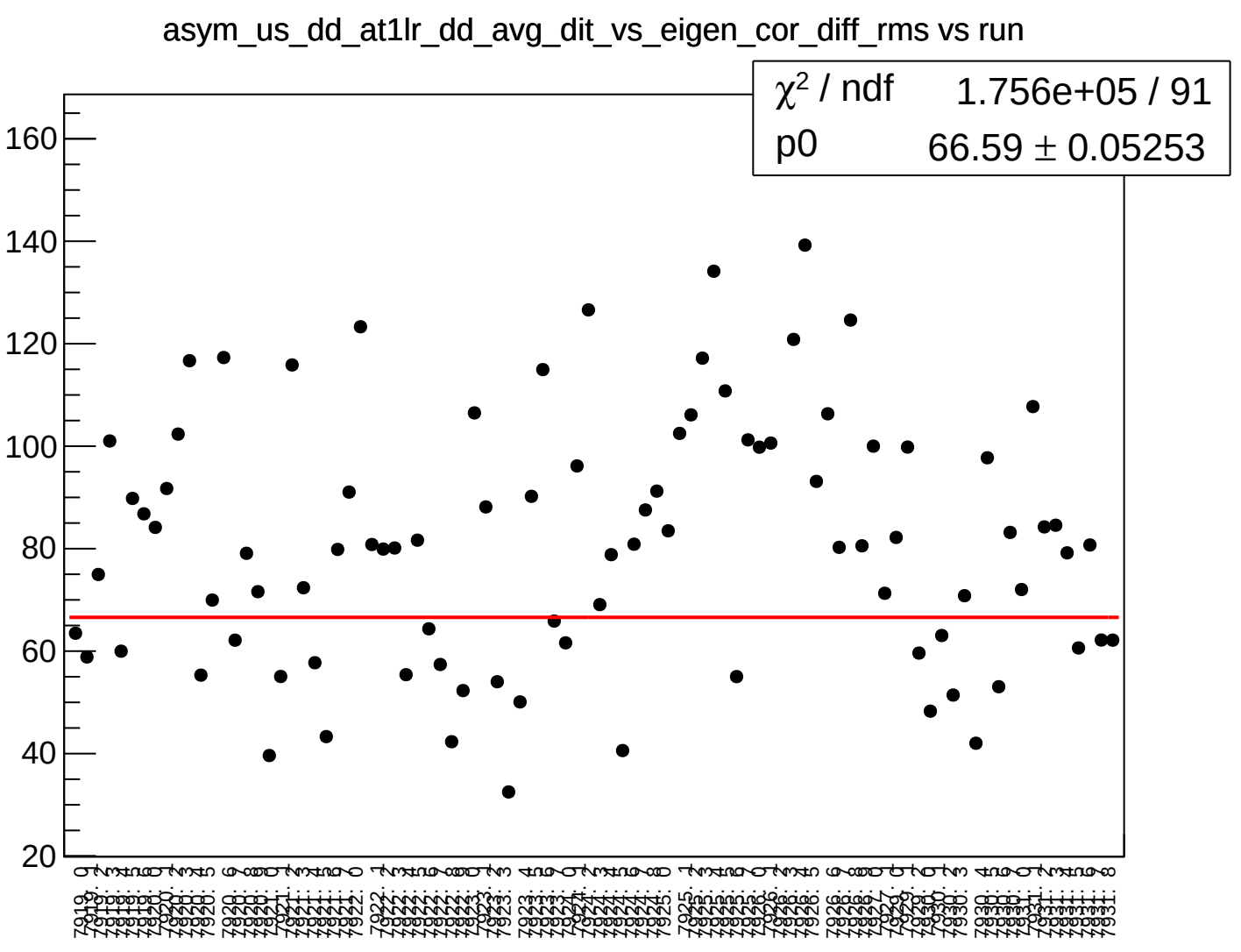

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.287e+06 / 91
p0 9.287e−11 ± 1.319e−13
1
0.8
0.6
0.4
0.2
0

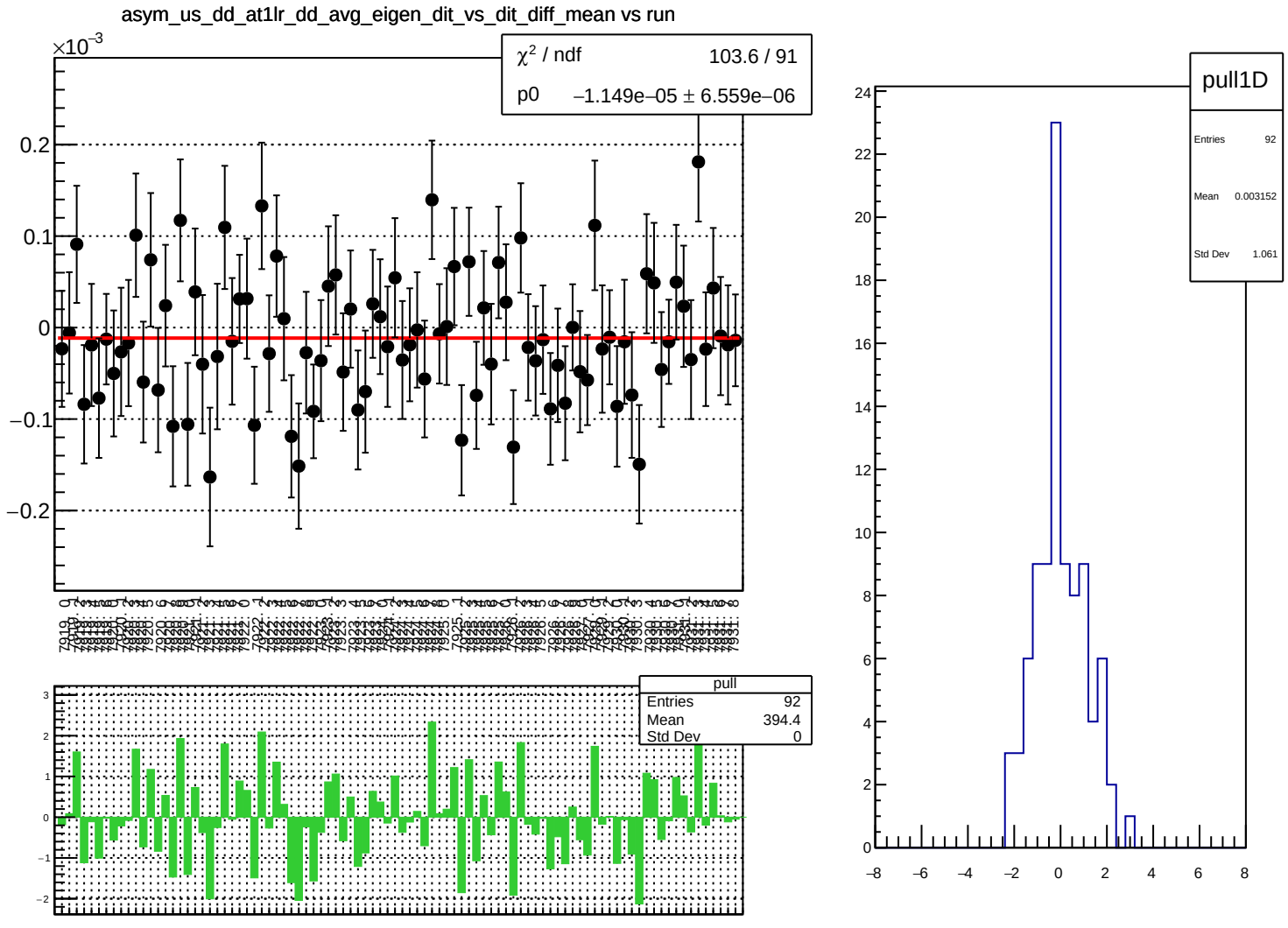

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 100.5 / 91
p0 −0.007269 ± 0.07428
pull
Entries 92
Mean 282.2
Std Dev 0

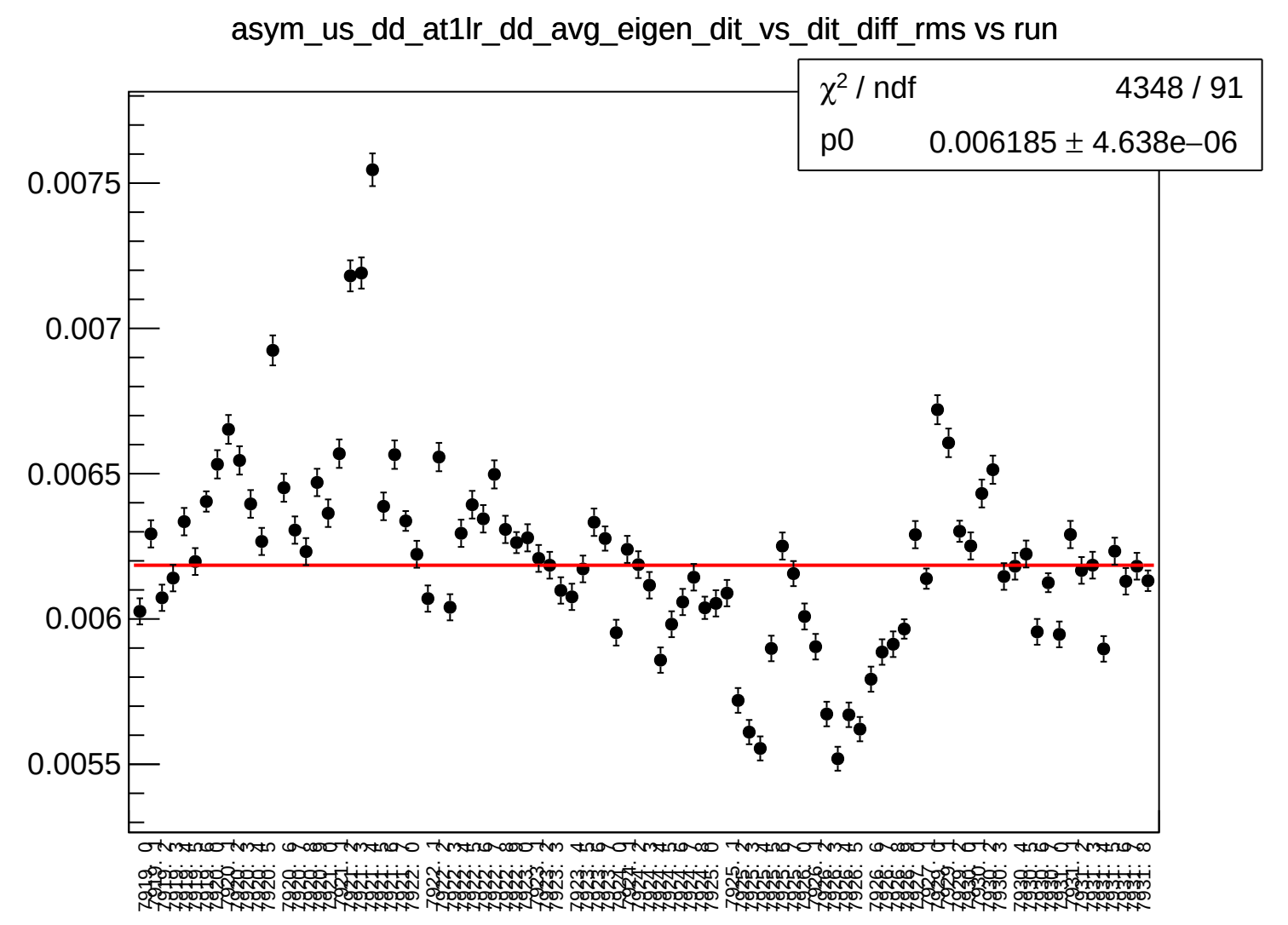

pull1D
Entries 92
Mean 0.01555
Std Dev 1.045

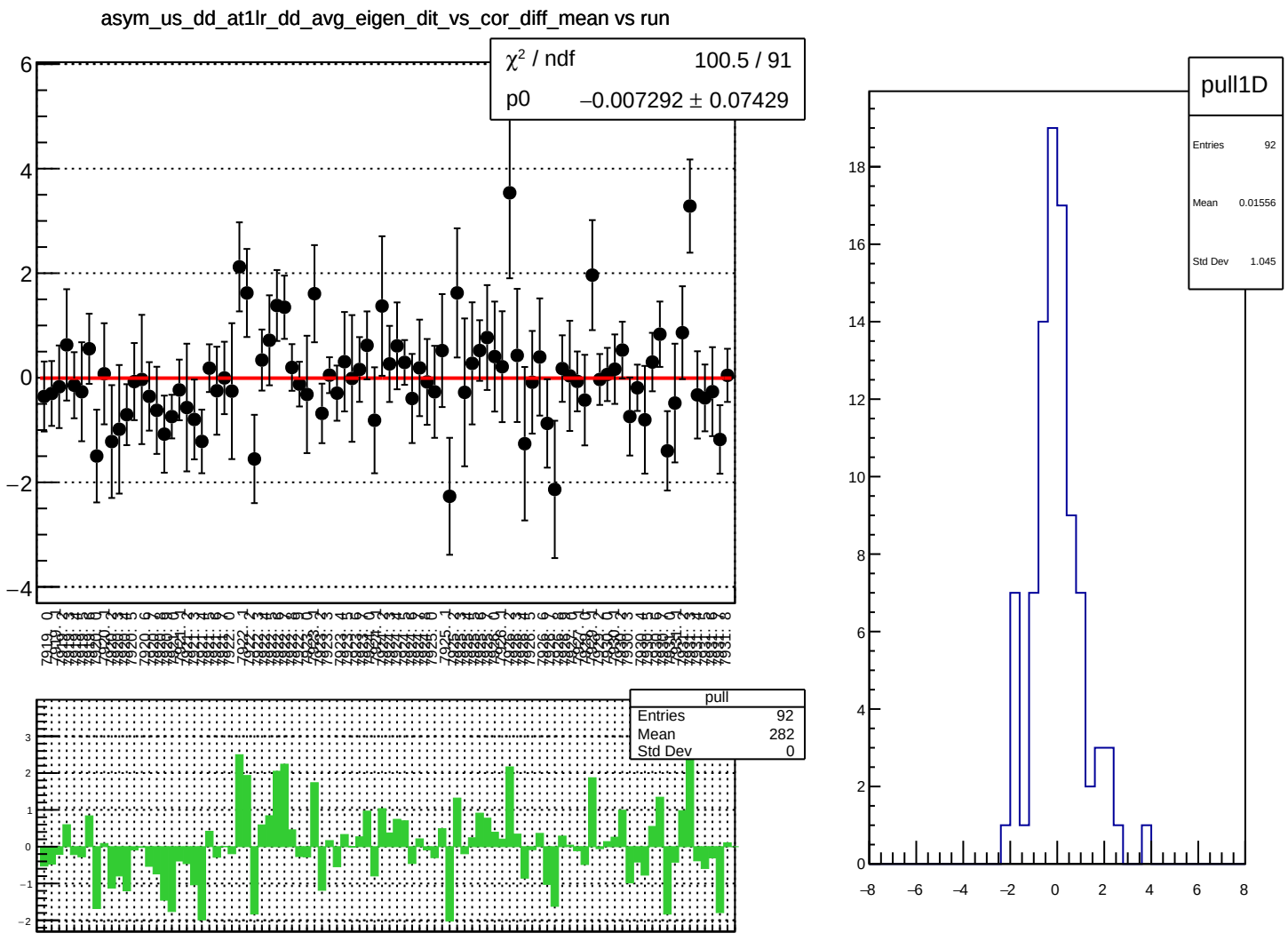

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.756e+05 / 91
p0 66.59 ± 0.05253
160
140
120
100
80
60
40
20

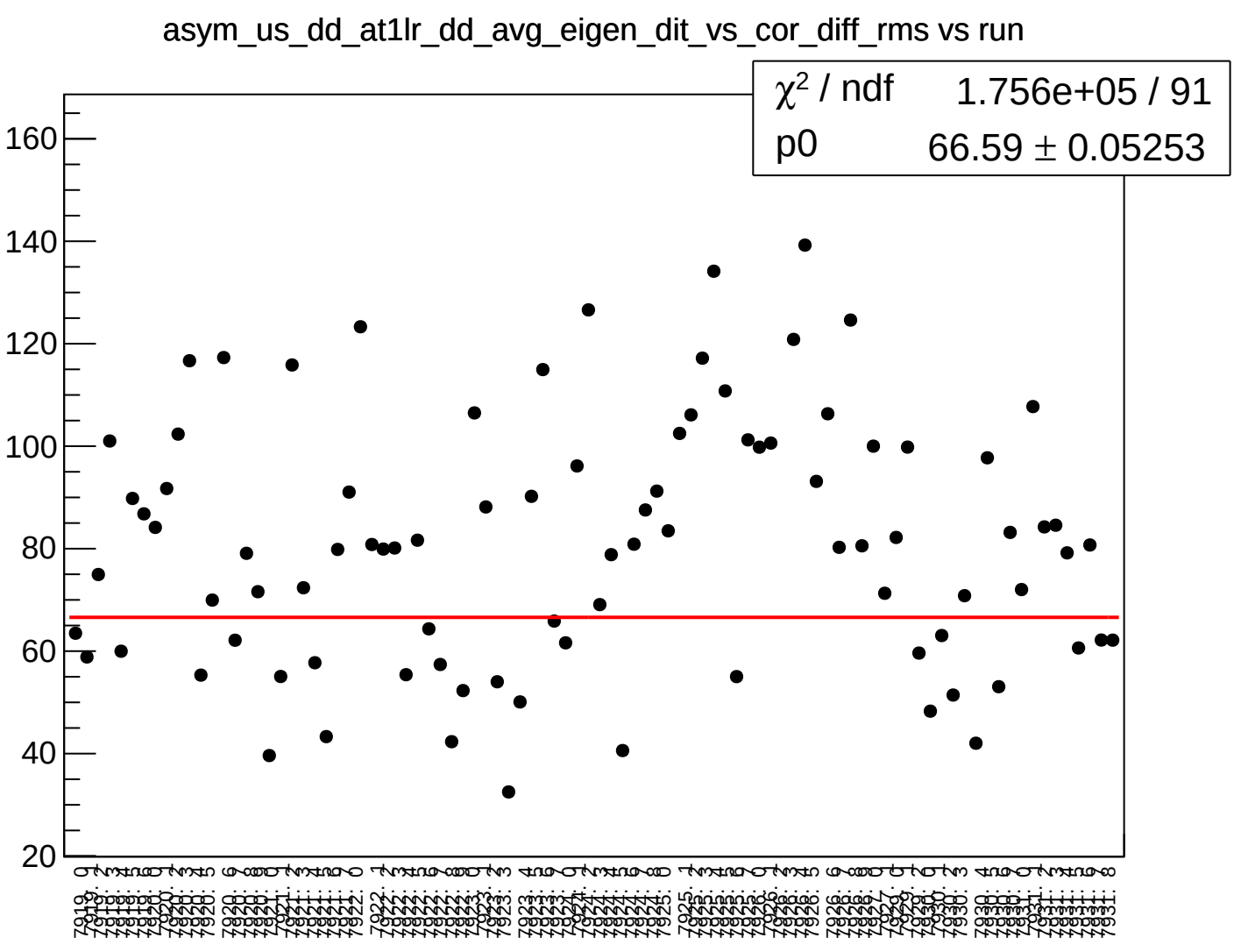

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.5 / 91
p0 −0.007269 ± 0.07428
pull
Entries 92
Mean 282.2
Std Dev 0
pull1D
Entries 92
Mean 0.01555
Std Dev 1.045

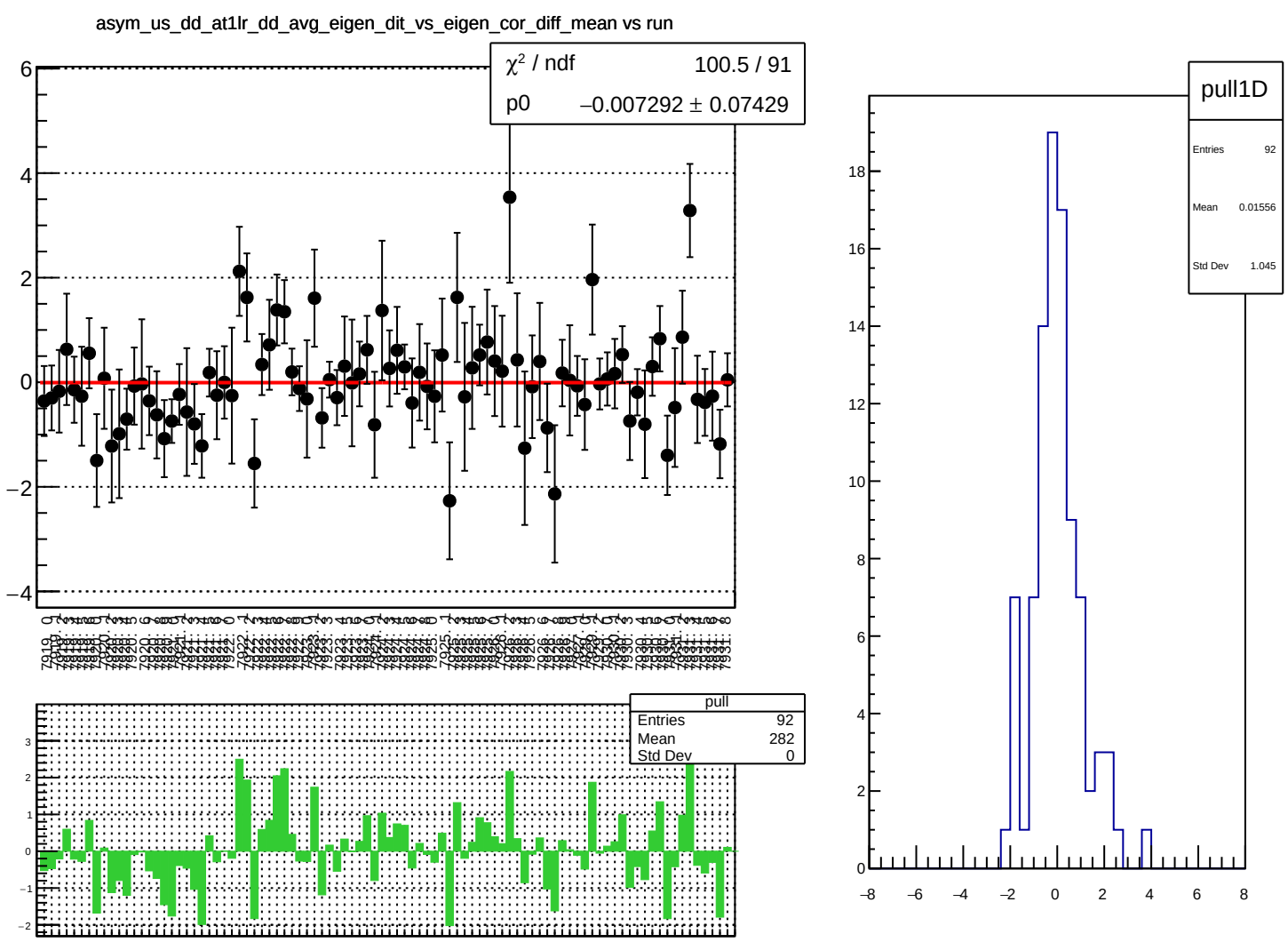

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.756e+05 / 91
p0 66.59 ± 0.05253
160
140
120
100
80
60
40
20

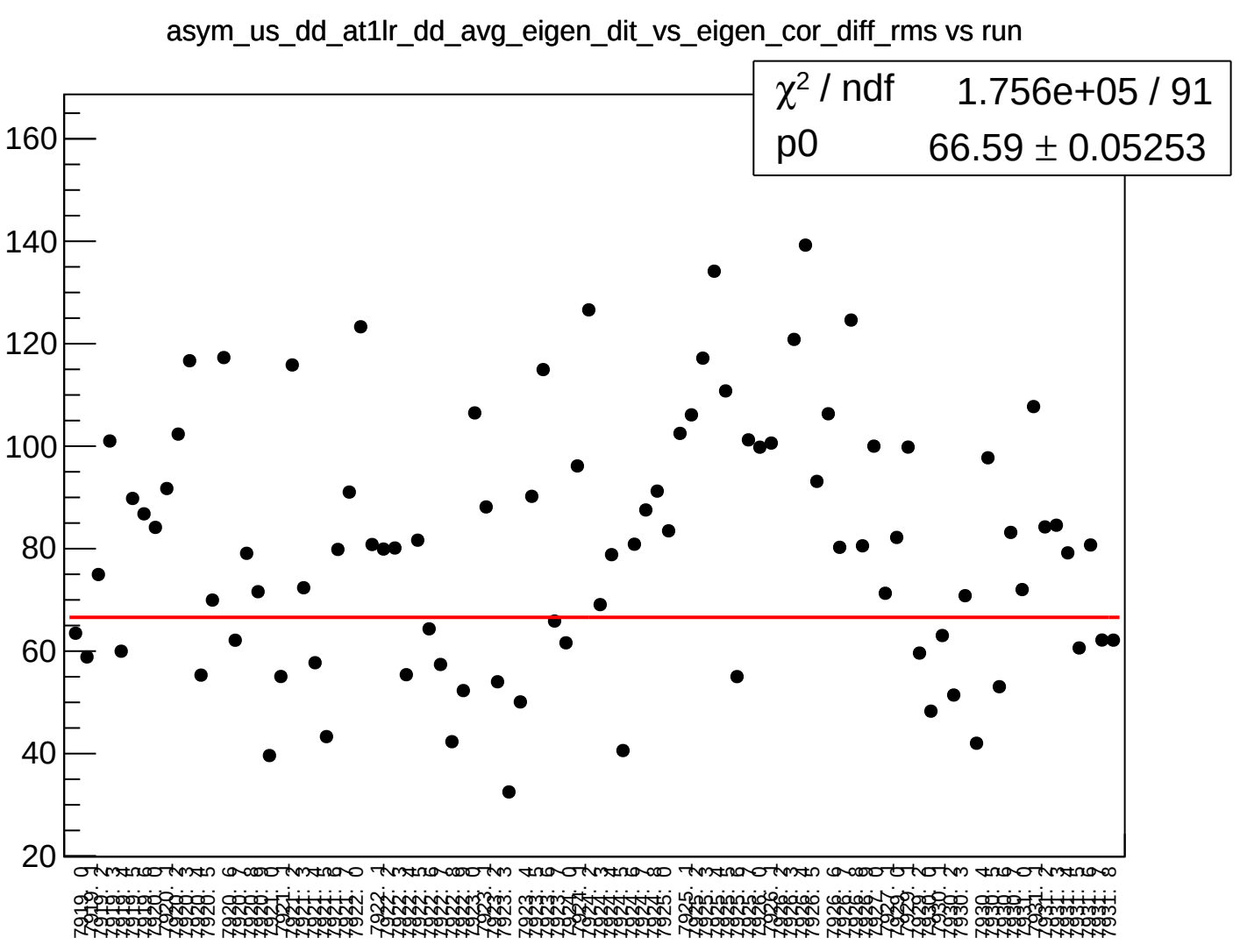

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 103.6 / 91
p0 −1.149e−05 ± 6.559e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 92
Mean 394.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.003152
Std Dev 1.061
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

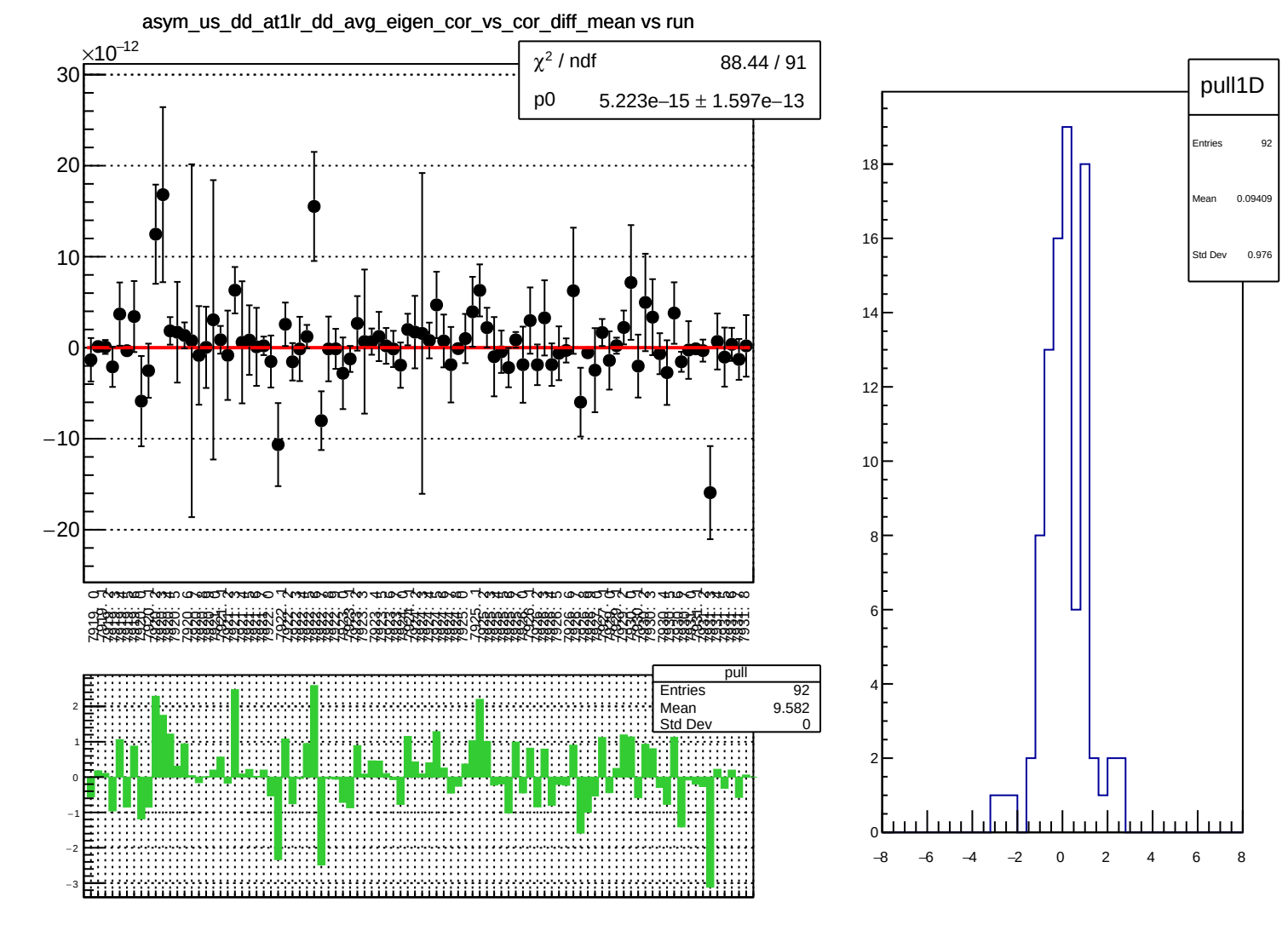

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4348 / 91
p0 0.006185 ± 4.638e−06
0.0075
0.007
0.0065
0.006
0.0055

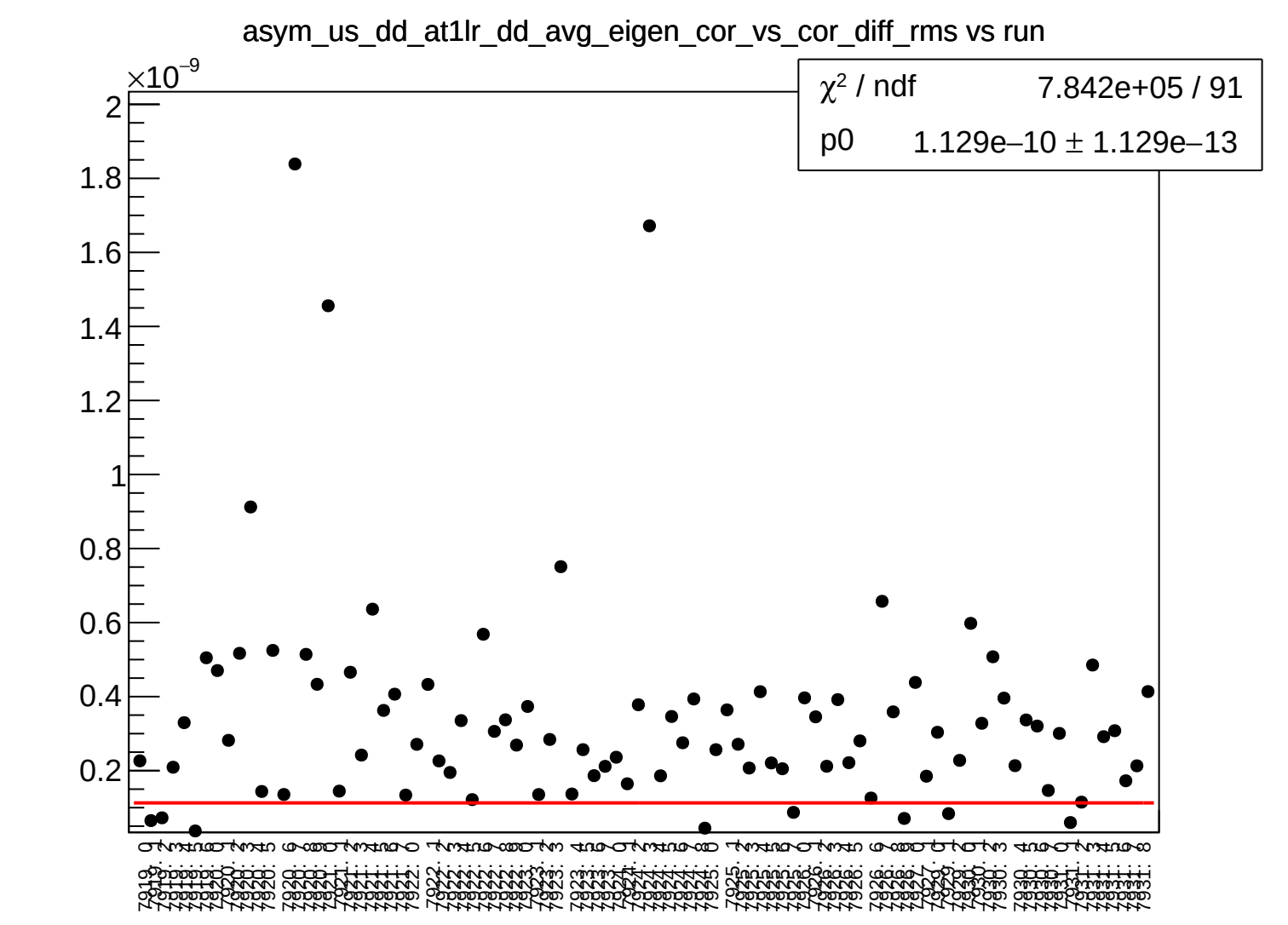

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 100.5 / 91
p0 −0.007292 ± 0.07429
pull
Entries 92
Mean 282
Std Dev 0
pull1D
Entries 92
Mean 0.01556
Std Dev 1.045

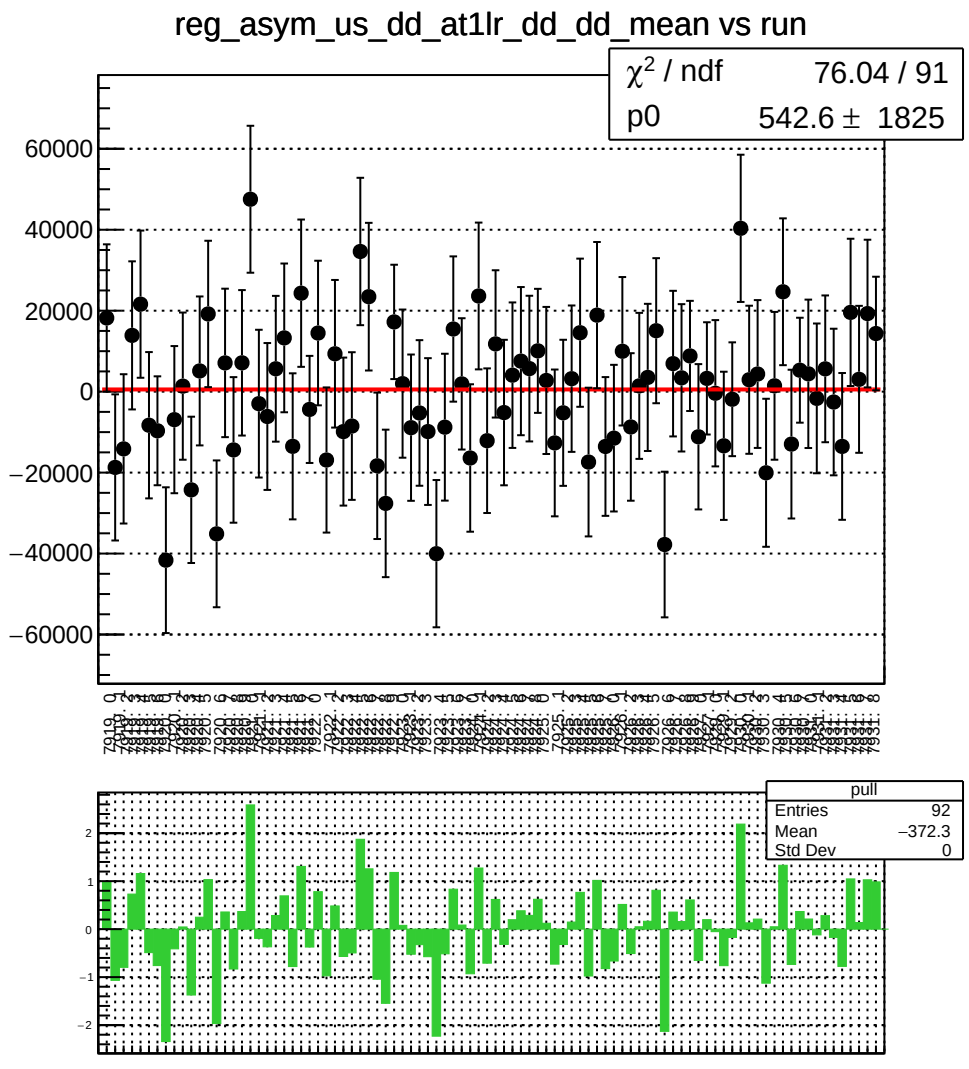

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.756e+05 / 91
p0 66.59 ± 0.05253
160
140
120
100
80
60
40
20

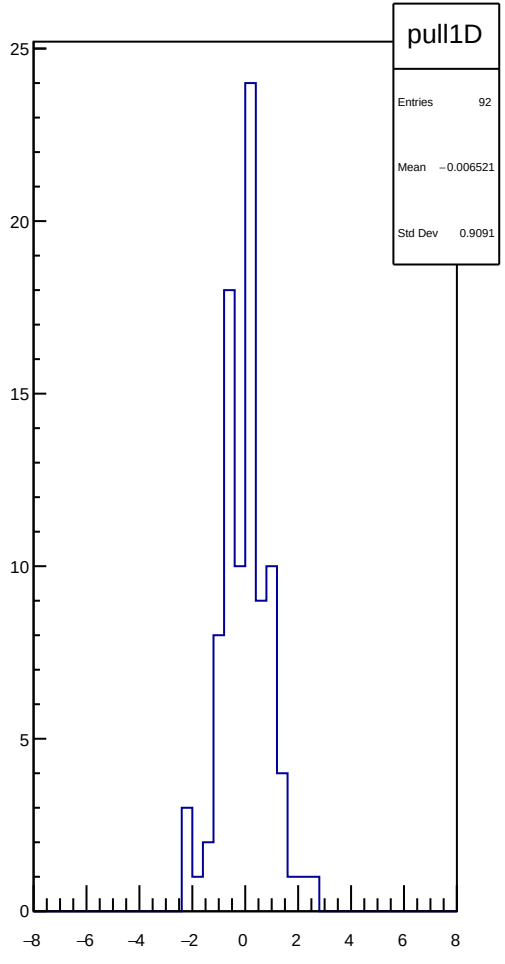

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.5 / 91
p0 −0.007292 ± 0.07429
pull
Entries 92
Mean 282
Std Dev 0
pull1D
Entries 92
Mean 0.01556
Std Dev 1.045

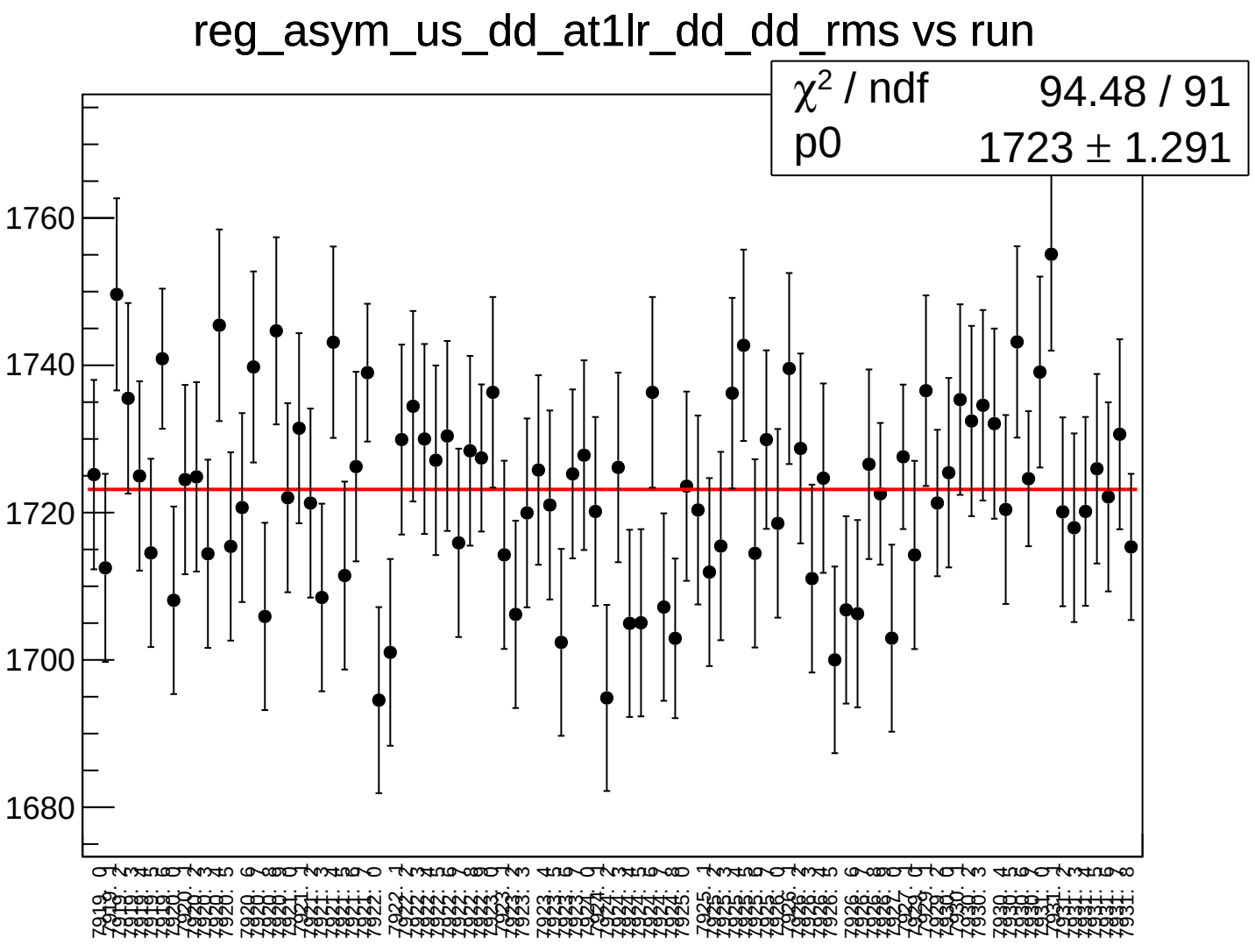

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.756e+05 / 91
p0 66.59 ± 0.05253
160
140
120
100
80
60
40
20

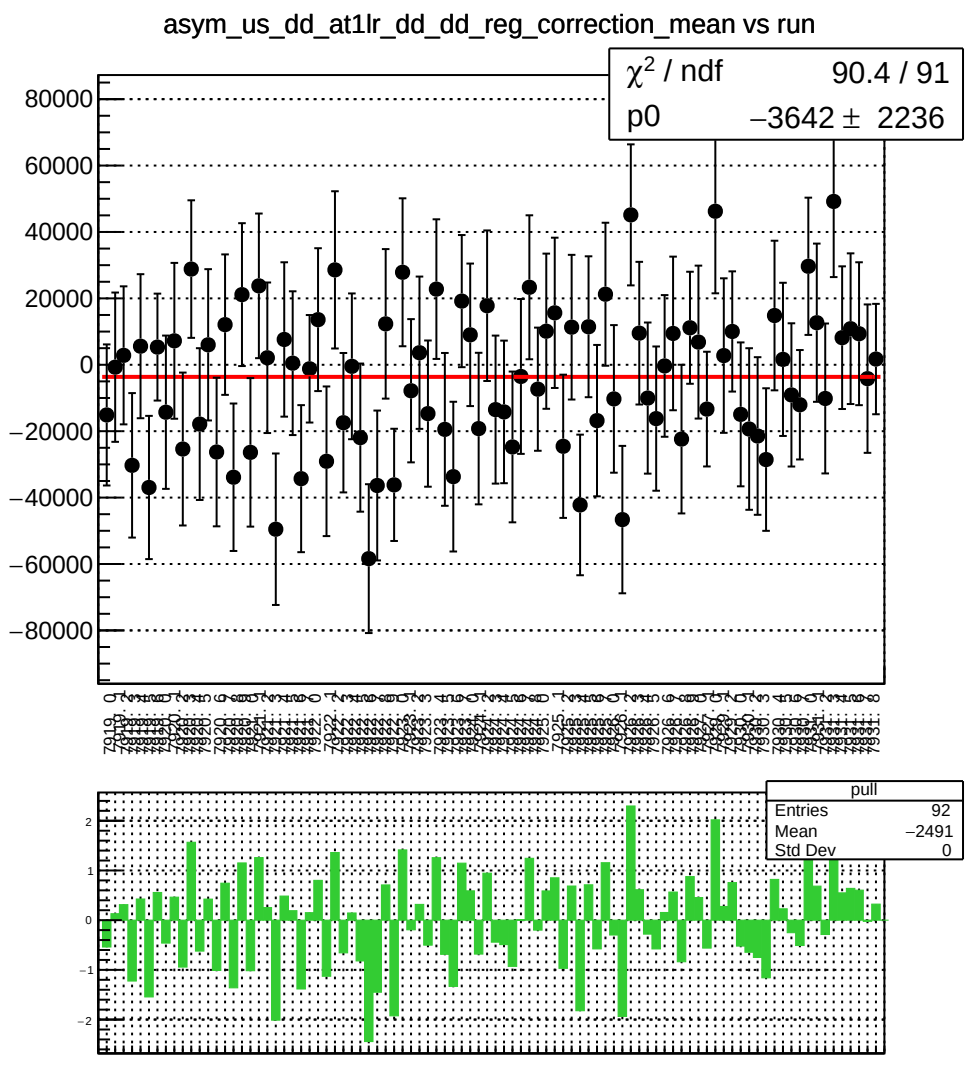

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.44 / 91
p0 5.223e−15 ± 1.597e−13
pull
Entries 92
Mean 9.582
Std Dev 0
pull1D
Entries 92
Mean 0.09409
Std Dev 0.976

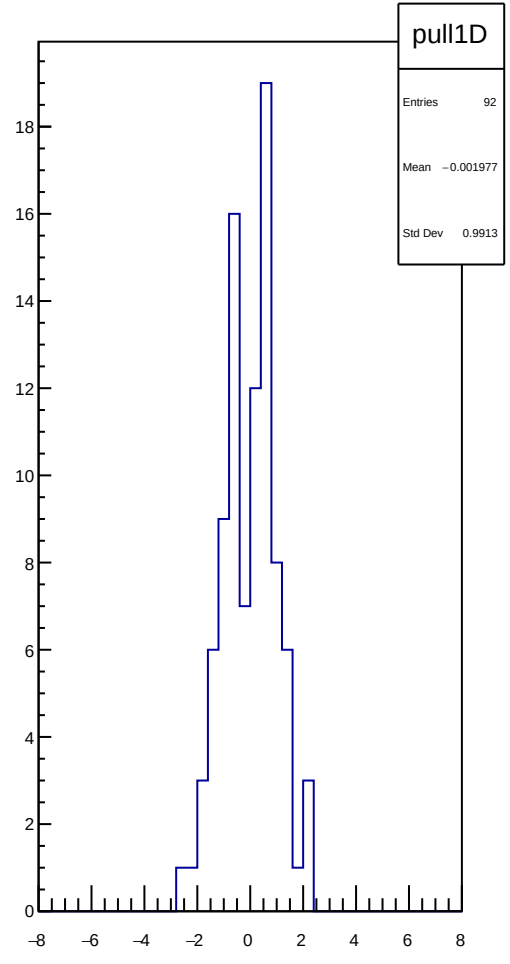

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.842e+05 / 91
p0 1.129e−10 ± 1.129e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

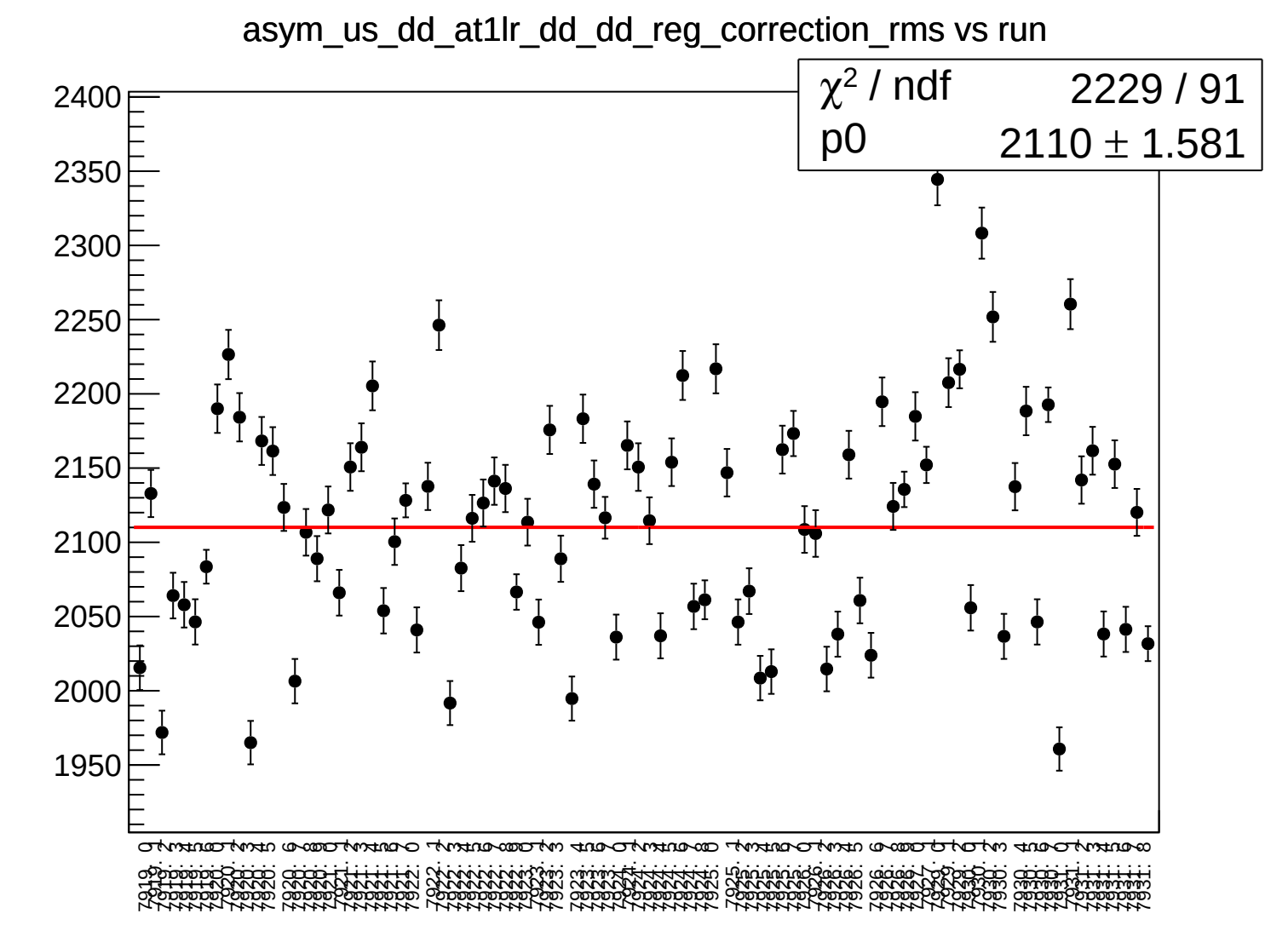

reg_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 76.04 / 91
p0 542.6 ± 1825
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −372.3
Std Dev 0
2
1
0
−1
−2

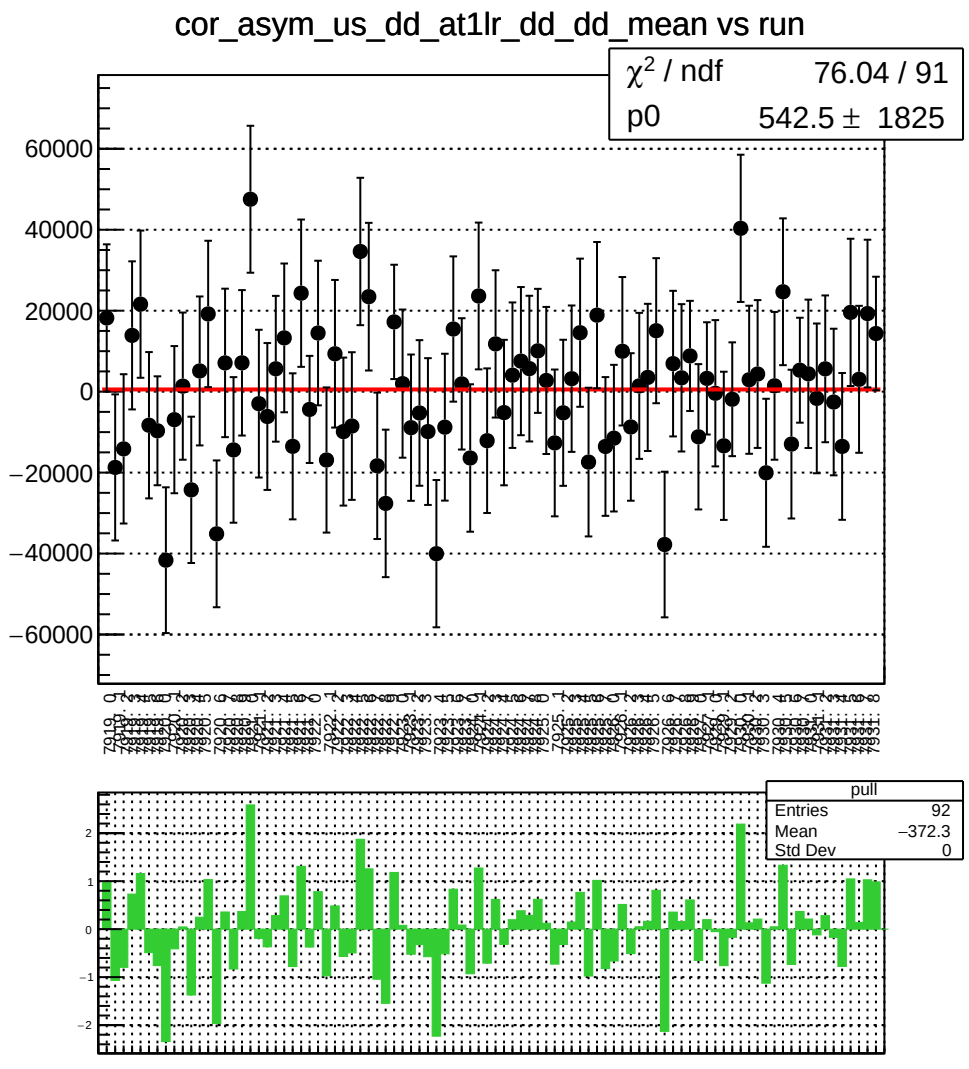

pull1D
Entries 92
Mean −0.006521
Std Dev 0.9091
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

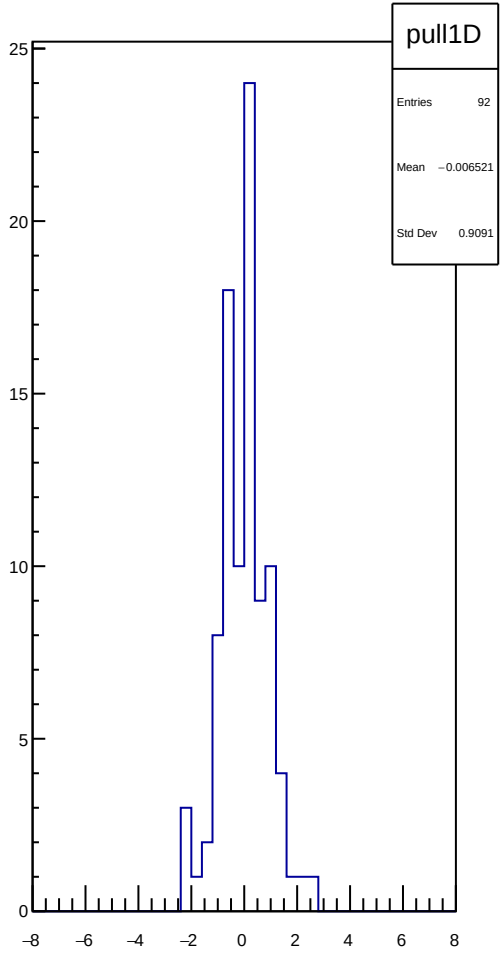

reg_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 94.48 / 91
p0 1723 ± 1.291
1760
1740
1720
1700
1680

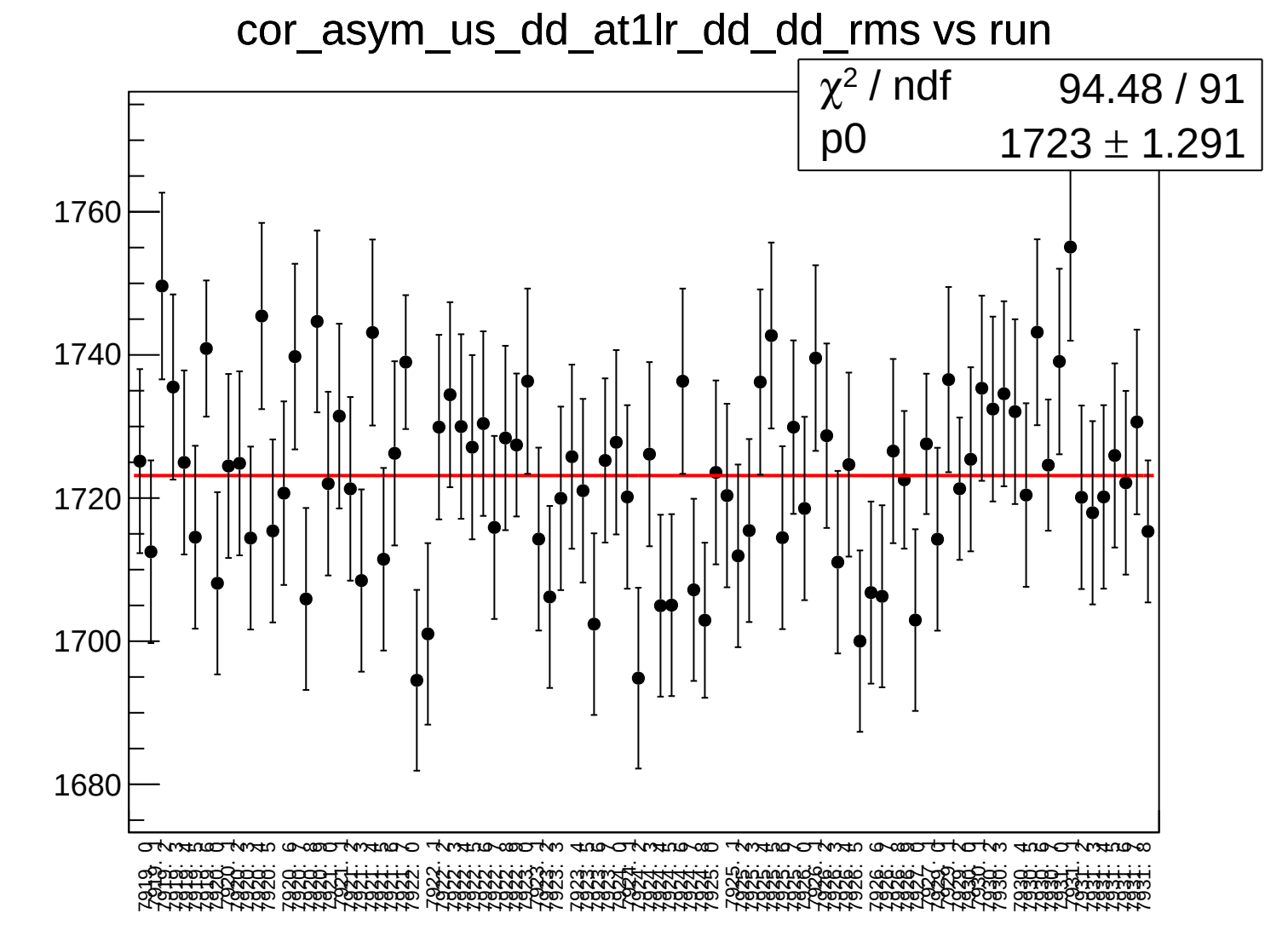

asym_us_dd_at1lr_dd_dd_reg_correction_mean vs run
χ² / ndf 90.4 / 91
p0 −3642 ± 2236
pull
Entries 92
Mean −2491
Std Dev 0

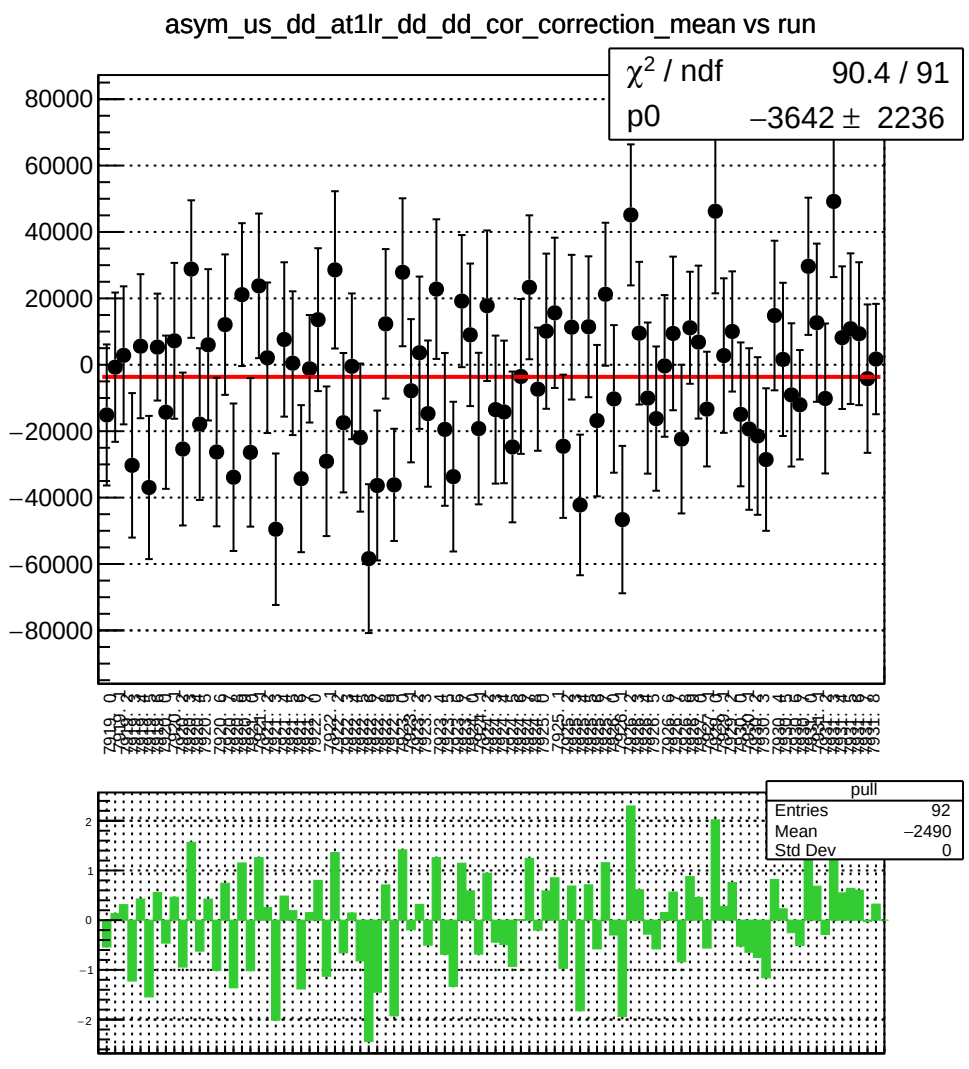

pull1D
Entries 92
Mean −0.001977
Std Dev 0.9913

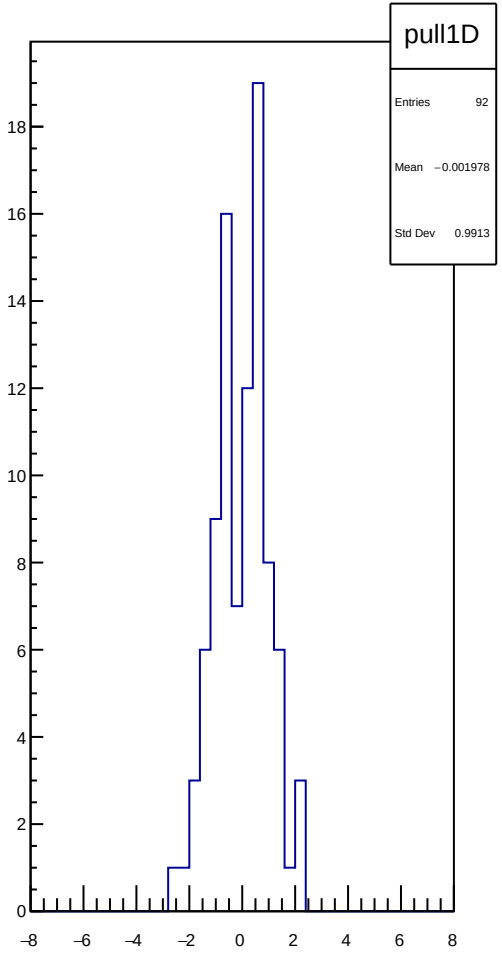

asym_us_dd_at1lr_dd_dd_reg_correction_rms vs run
χ² / ndf 2229 / 91
p0 2110 ± 1.581
2400
2350
2300
2250
2200
2150
2100
2050
2000
1950

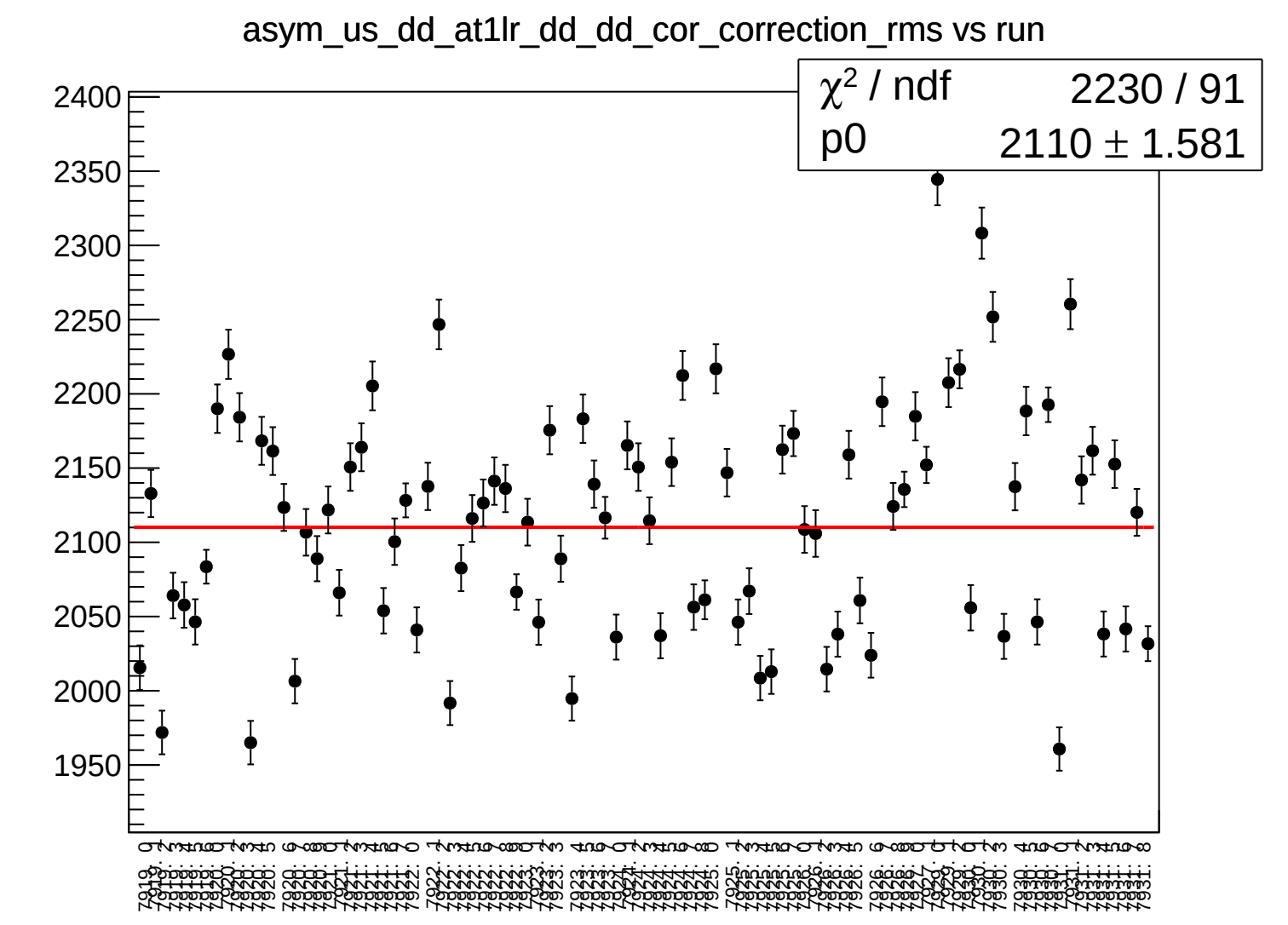

cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 76.04 / 91
p0 542.5 ± 1825
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −372.3
Std Dev 0
2
1
0
−1
−2

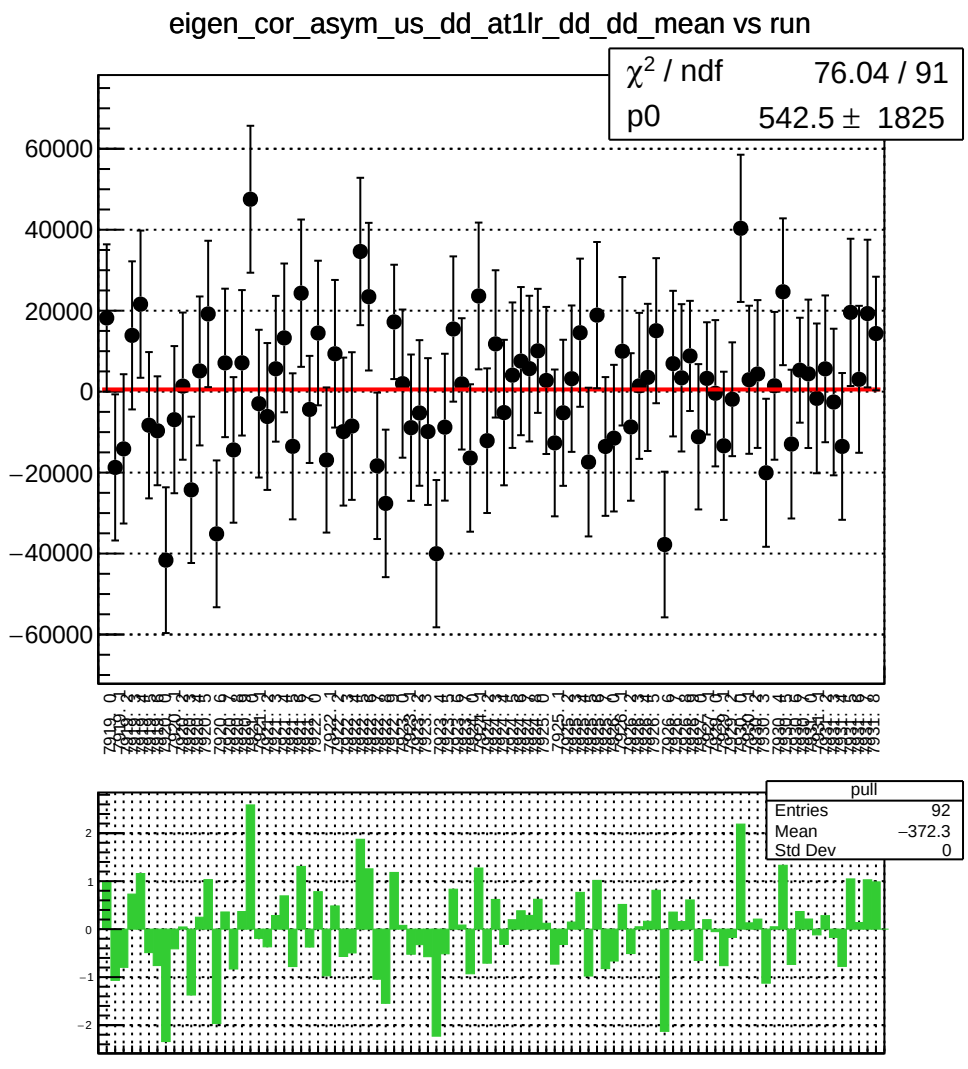

pull1D
Entries 92
Mean −0.006521
Std Dev 0.9091
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

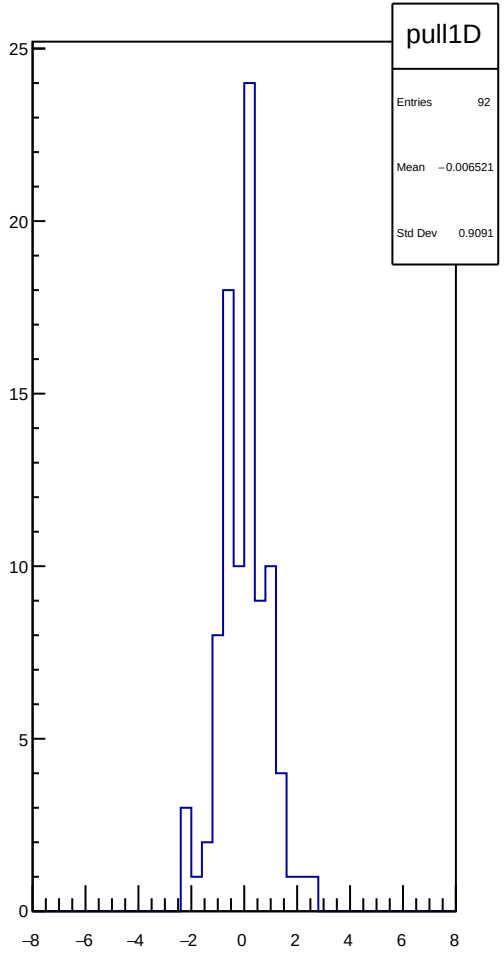

cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 94.48 / 91
p0 1723 ± 1.291
1760
1740
1720
1700
1680

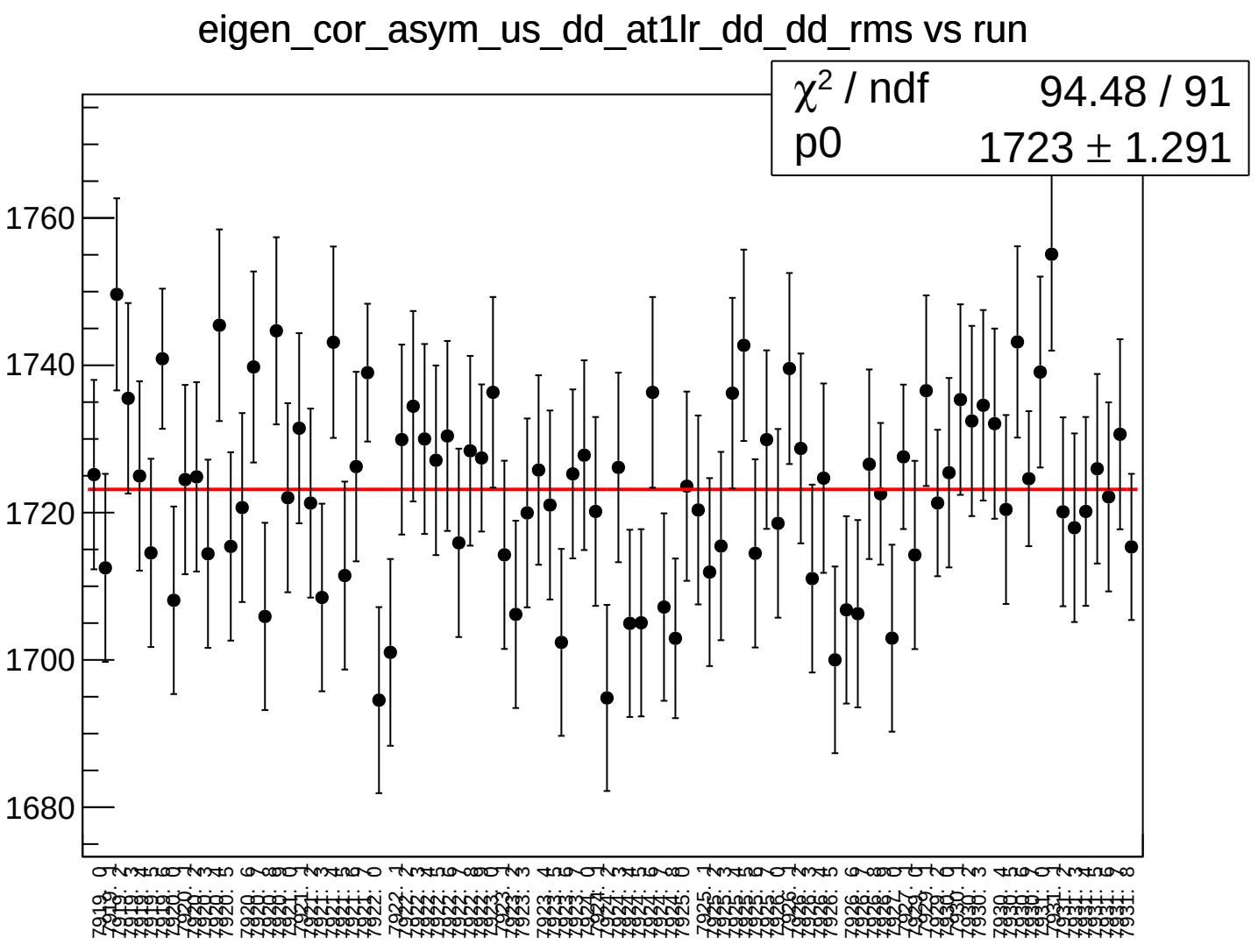

asym_us_dd_at1lr_dd_dd_cor_correction_mean vs run
χ² / ndf 90.4 / 91
p0 −3642 ± 2236
pull
Entries 92
Mean −2490
Std Dev 0

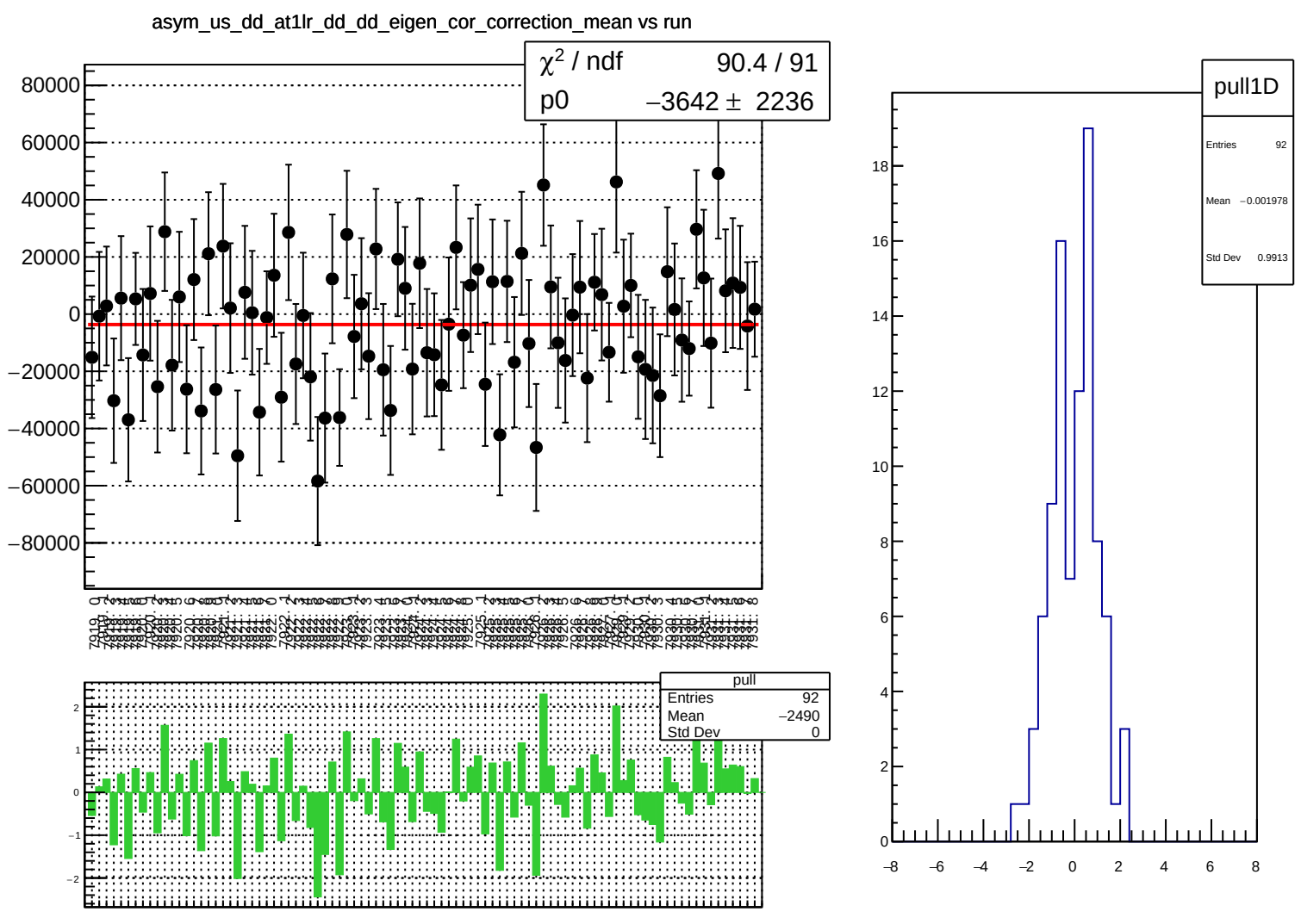

pull1D
Entries 92
Mean −0.001978
Std Dev 0.9913

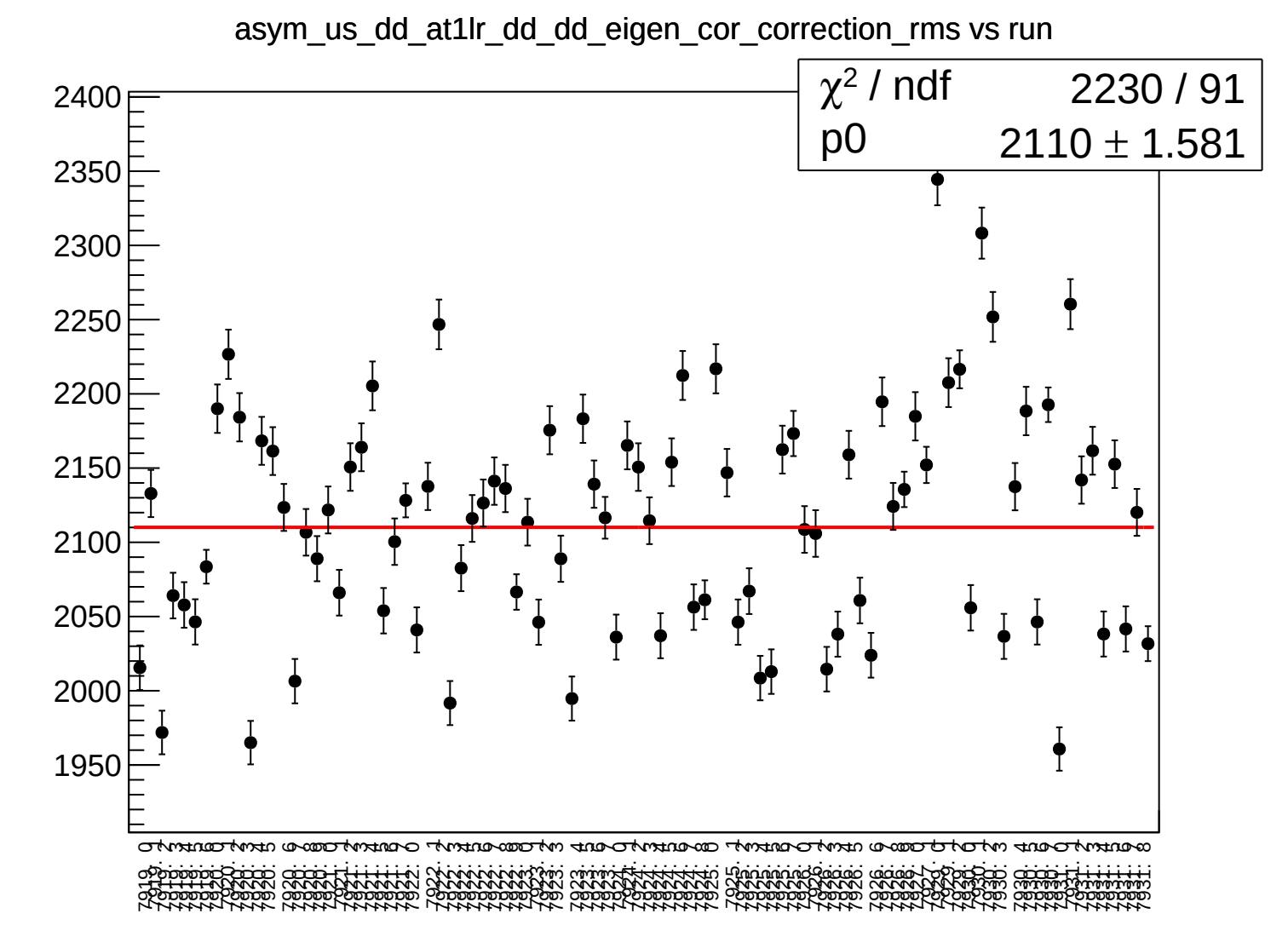

asym_us_dd_at1lr_dd_dd_cor_correction_rms vs run
χ² / ndf 2230 / 91
p0 2110 ± 1.581
2400
2350
2300
2250
2200
2150
2100
2050
2000
1950

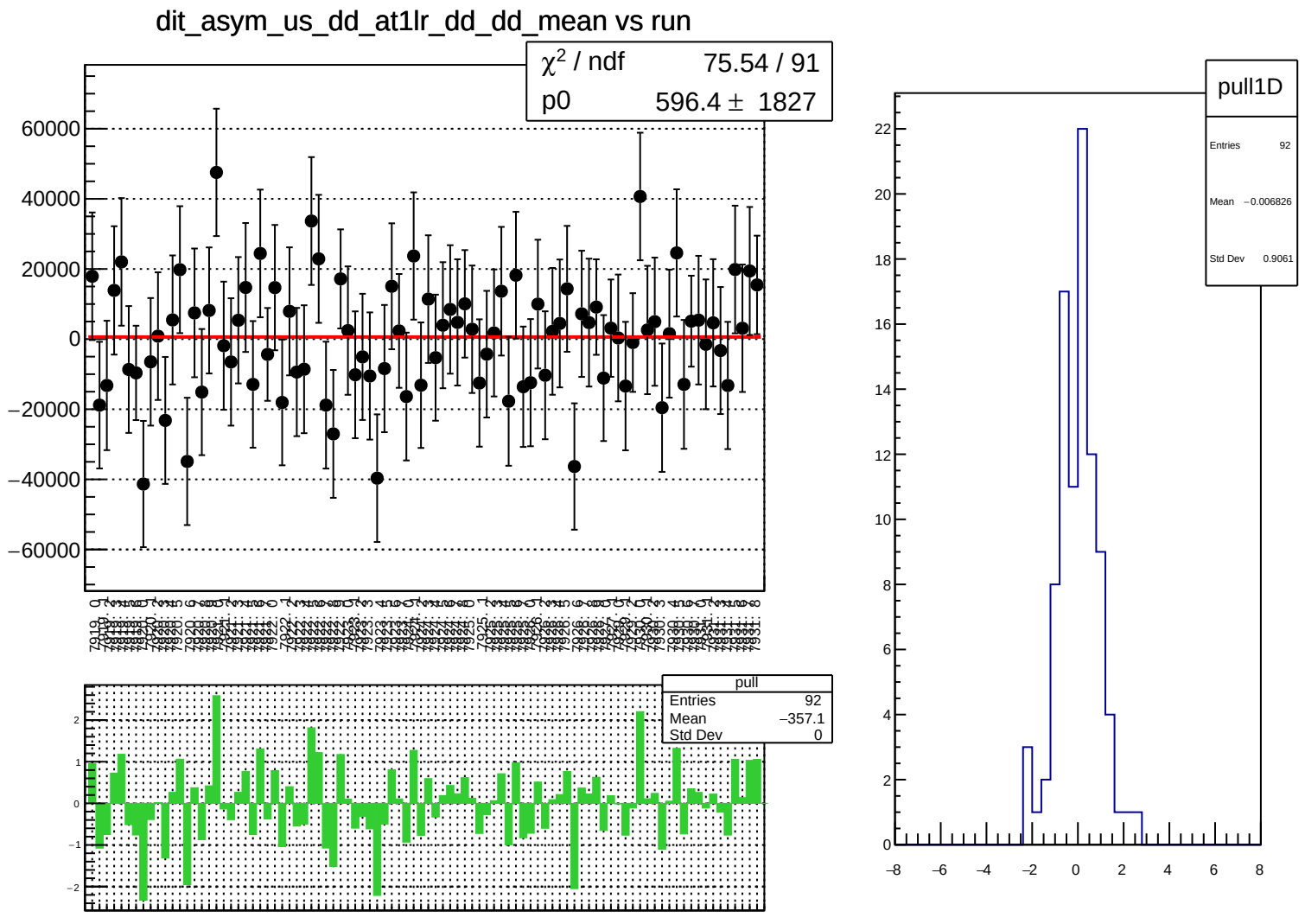

eigen_cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 76.04 / 91
p0 542.5 ± 1825
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −372.3
Std Dev 0
2
1
0
−1
−2

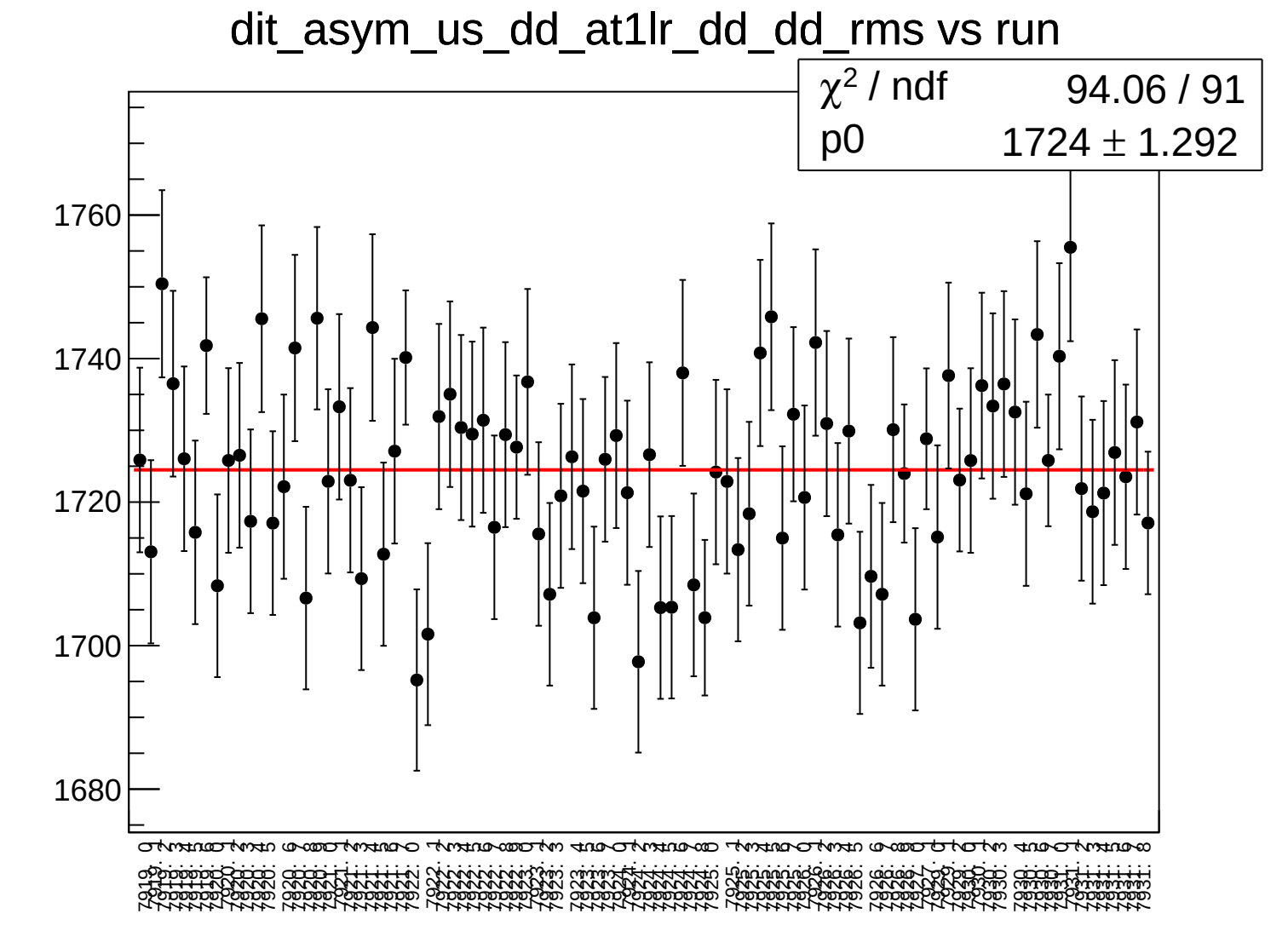

pull1D
Entries 92
Mean −0.006521
Std Dev 0.9091
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

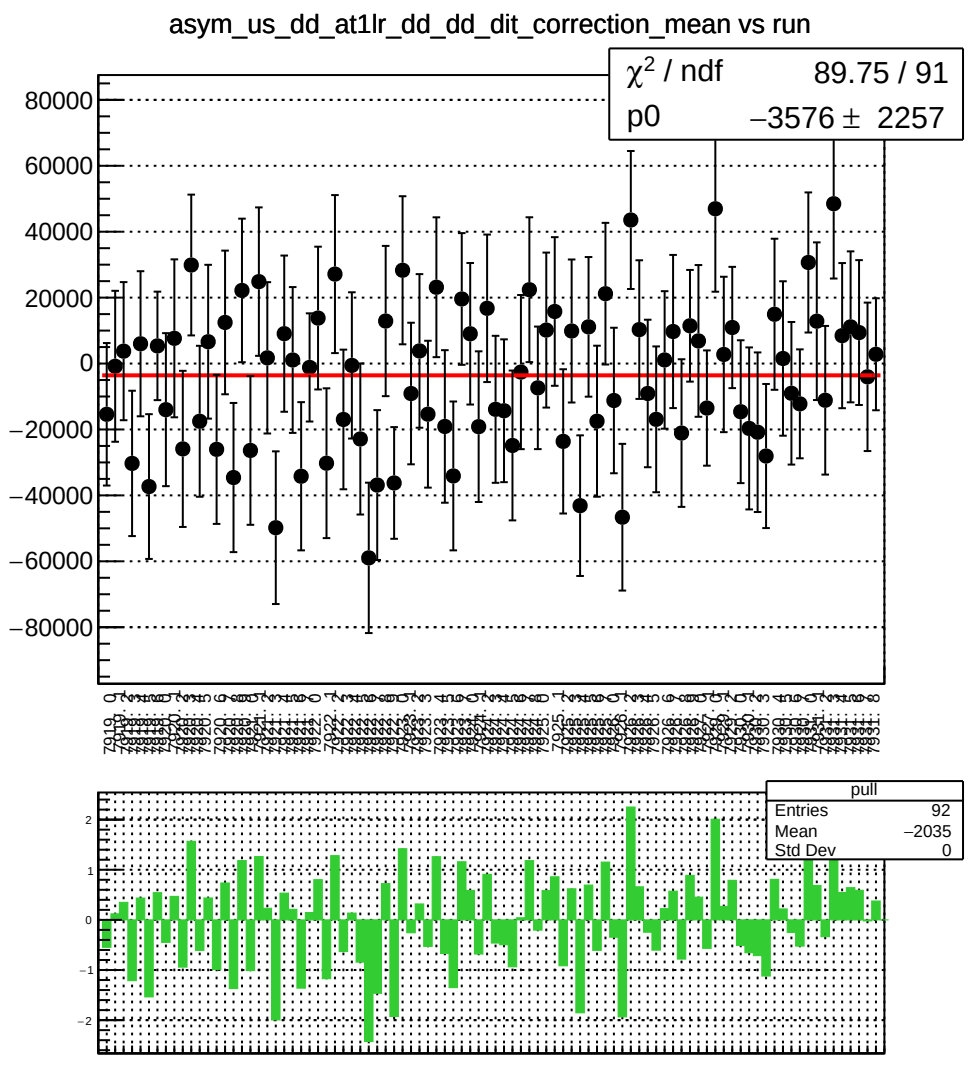

eigen_cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 94.48 / 91
p0 1723 ± 1.291
1760
1740
1720
1700
1680

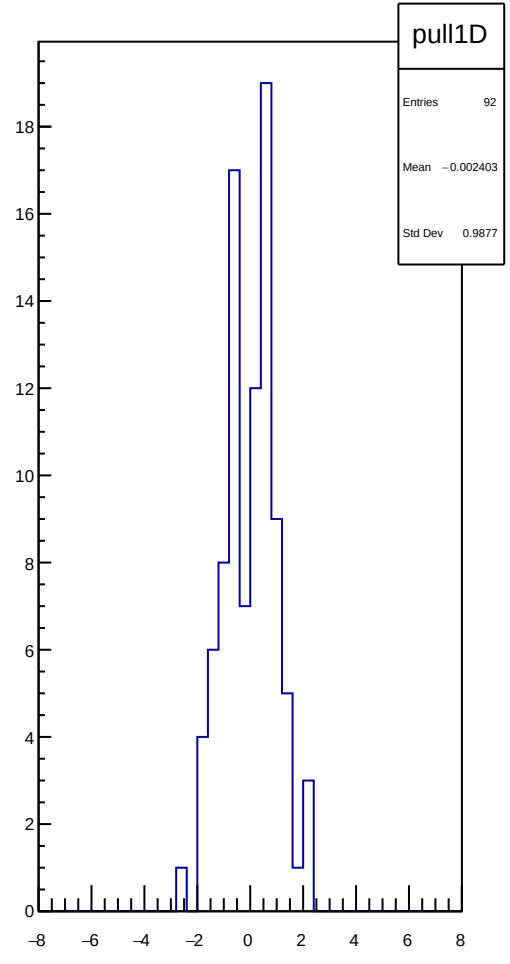

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 90.4 / 91
p0 −3642 ± 2236
pull
Entries 92
Mean −2490
Std Dev 0
pull1D
Entries 92
Mean −0.001978
Std Dev 0.9913

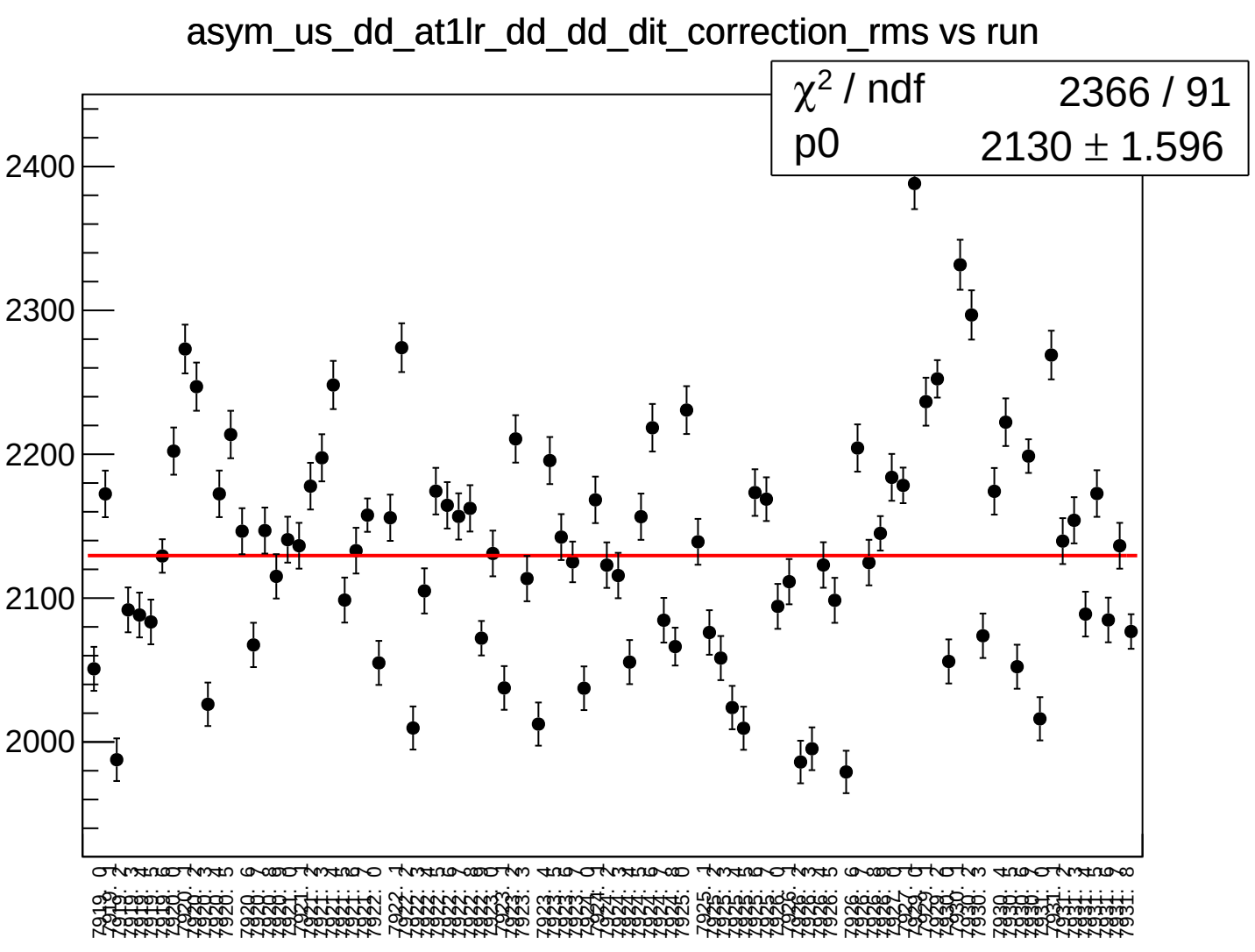

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 2230 / 91
p0 2110 ± 1.581
2400
2350
2300
2250
2200
2150
2100
2050
2000
1950

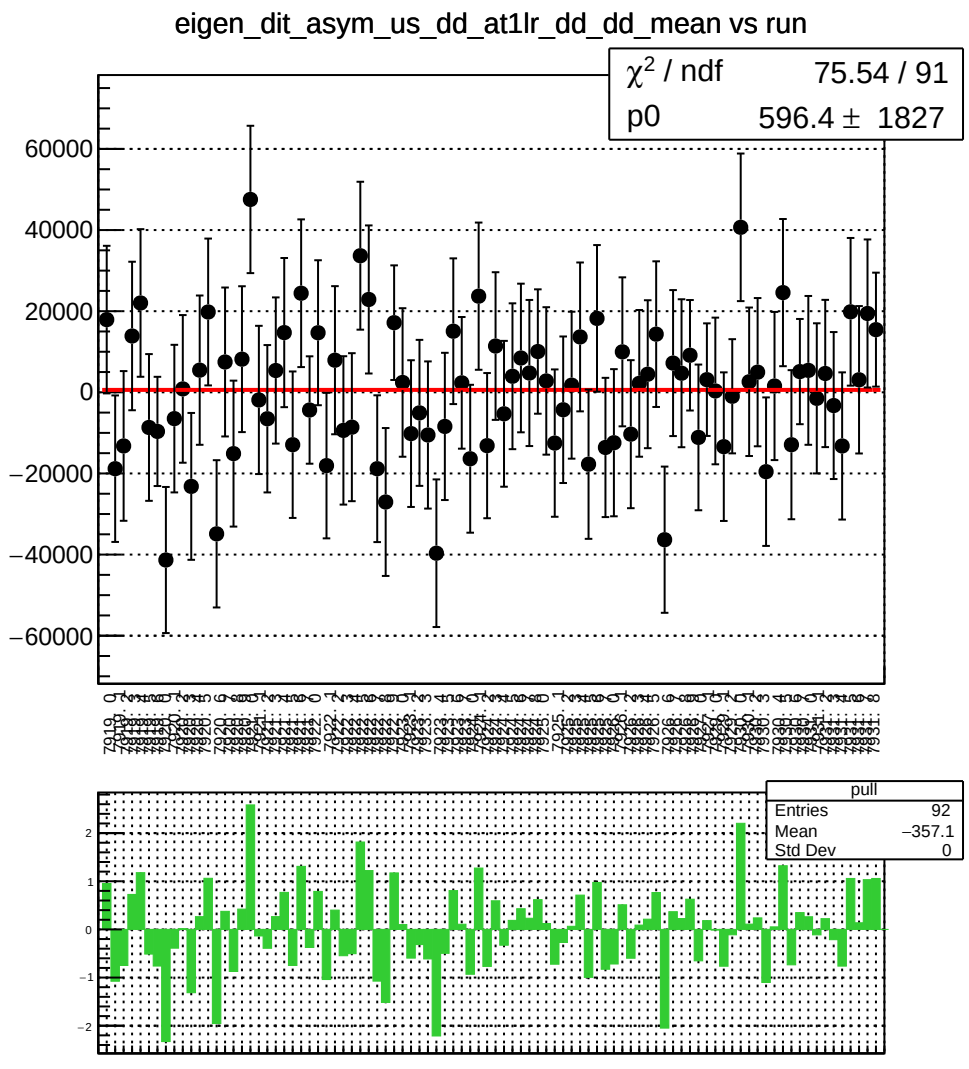

dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 75.54 / 91
p0 596.4 ± 1827
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −357.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.006826
Std Dev 0.9061
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

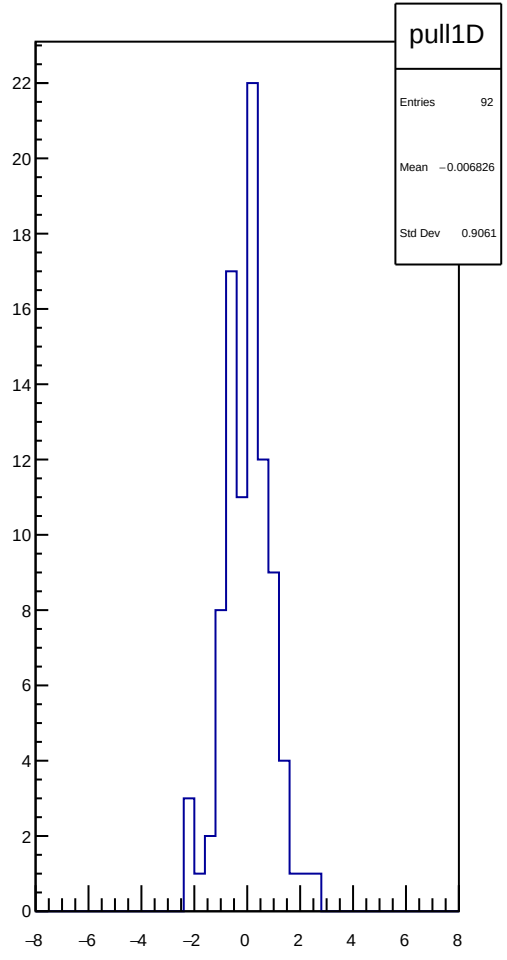

dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 94.06 / 91
p0 1724 ± 1.292
1760
1740
1720
1700
1680

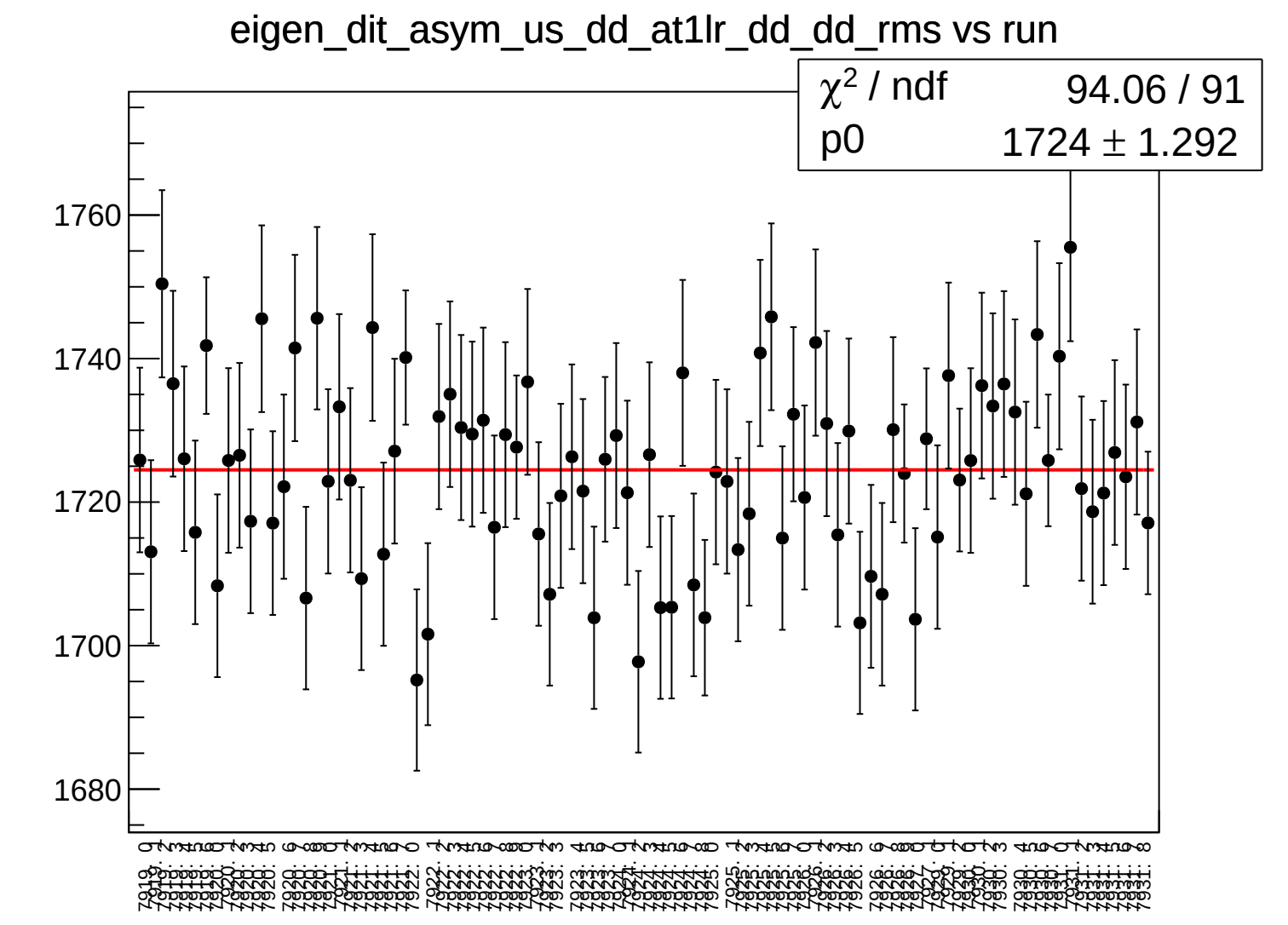

asym_us_dd_at1lr_dd_dd_dit_correction_mean vs run
χ² / ndf 89.75 / 91
p0 −3576 ± 2257
pull
Entries 92
Mean −2035
Std Dev 0

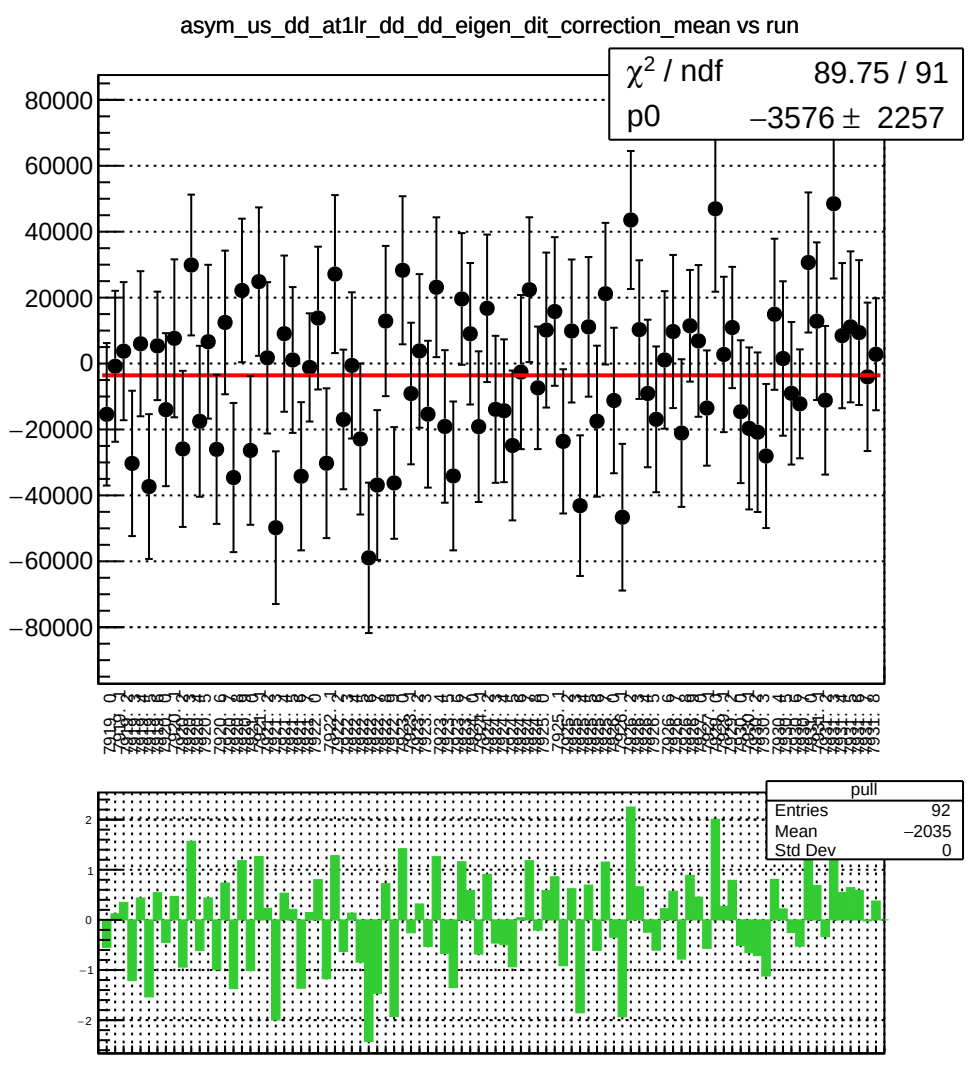

pull1D
Entries 92
Mean −0.002403
Std Dev 0.9877

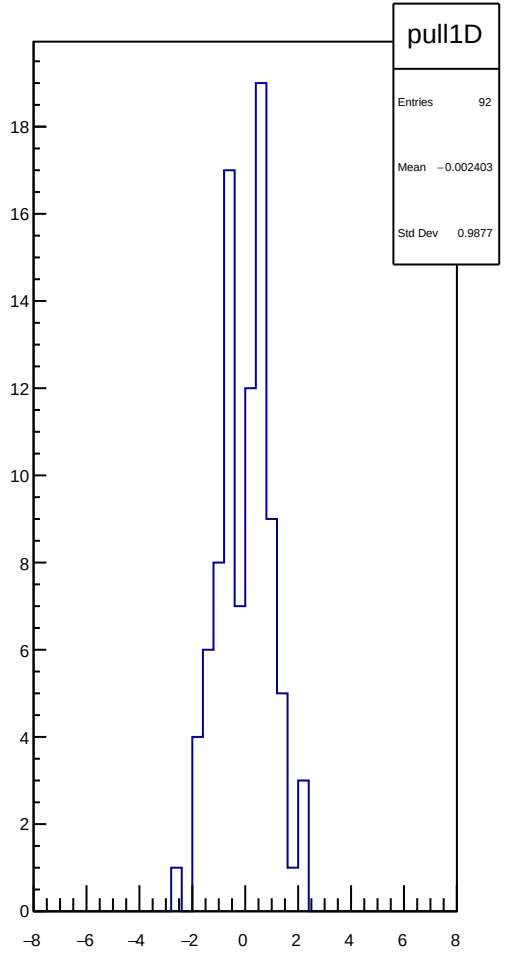

asym_us_dd_at1lr_dd_dd_dit_correction_rms vs run
χ² / ndf 2366 / 91
p0 2130 ± 1.596
2400
2300
2200
2100
2000

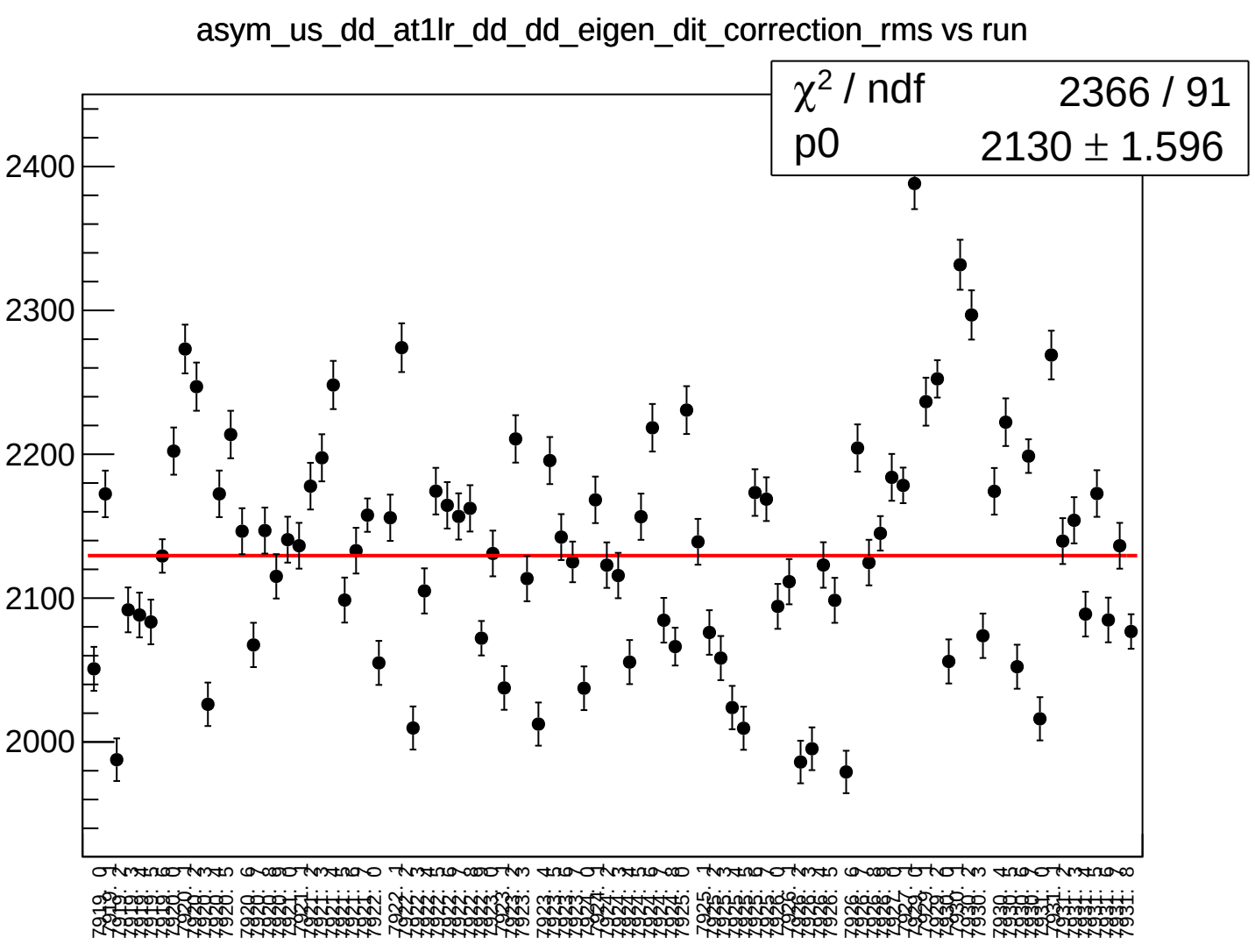

eigen_dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 75.54 / 91
p0 596.4 ± 1827
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −357.1
Std Dev 0
2
1
0
−1
−2

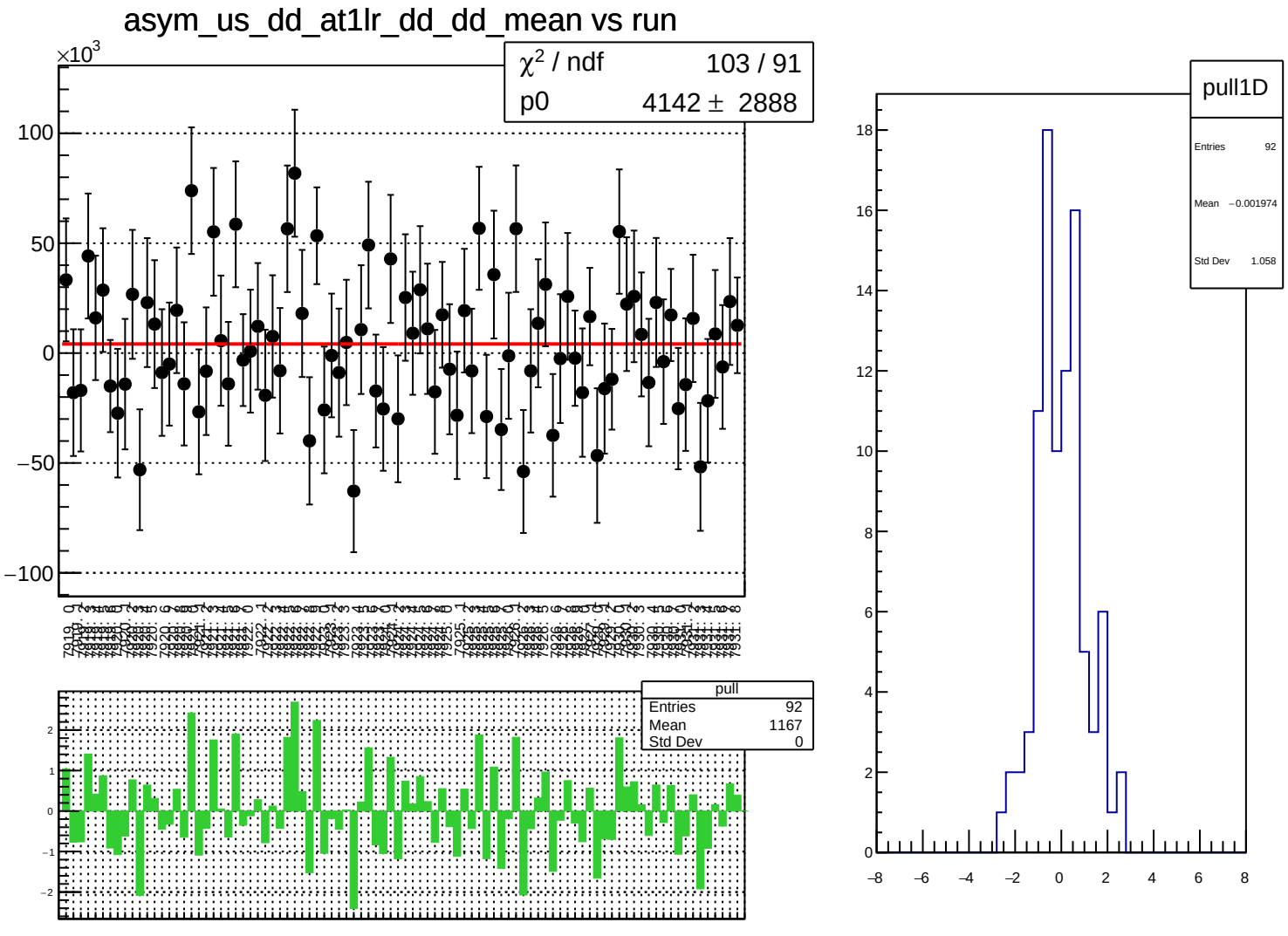

pull1D
Entries 92
Mean −0.006826
Std Dev 0.9061
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

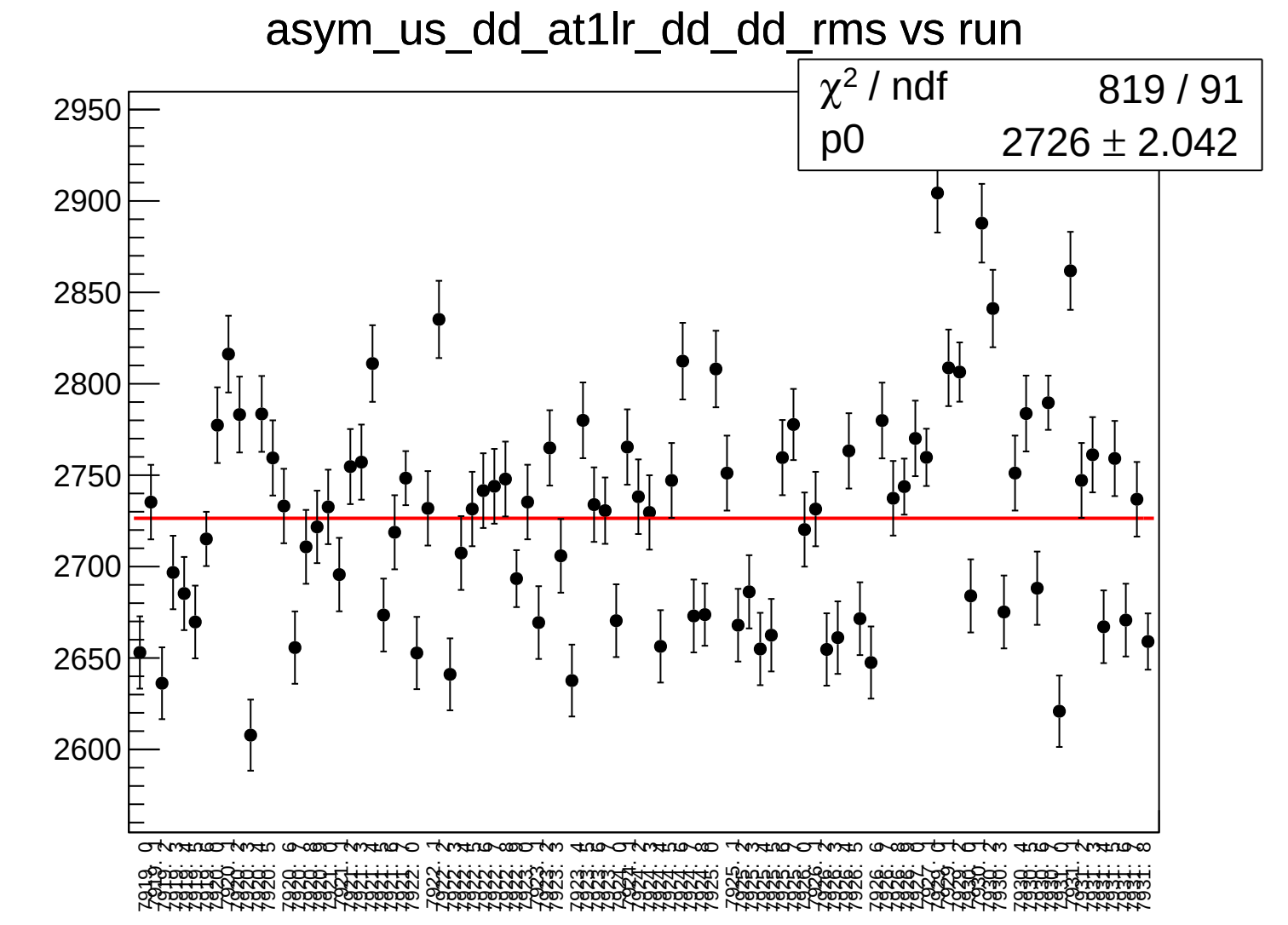

eigen_dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 94.06 / 91
p0 1724 ± 1.292
1760
1740
1720
1700
1680

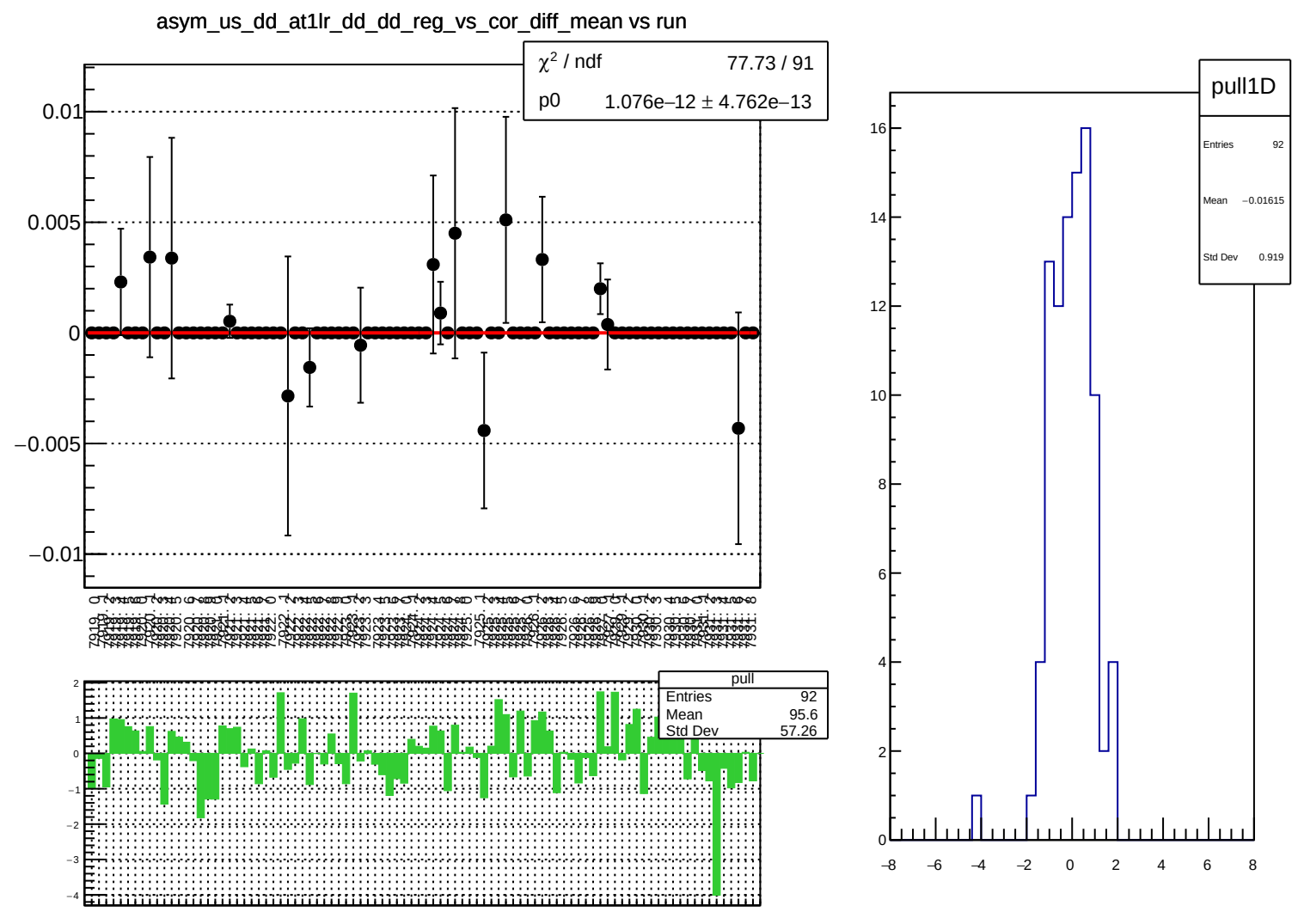

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 89.75 / 91
p0 −3576 ± 2257
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean −2035
Std Dev 0
2
1
0
−1
−2

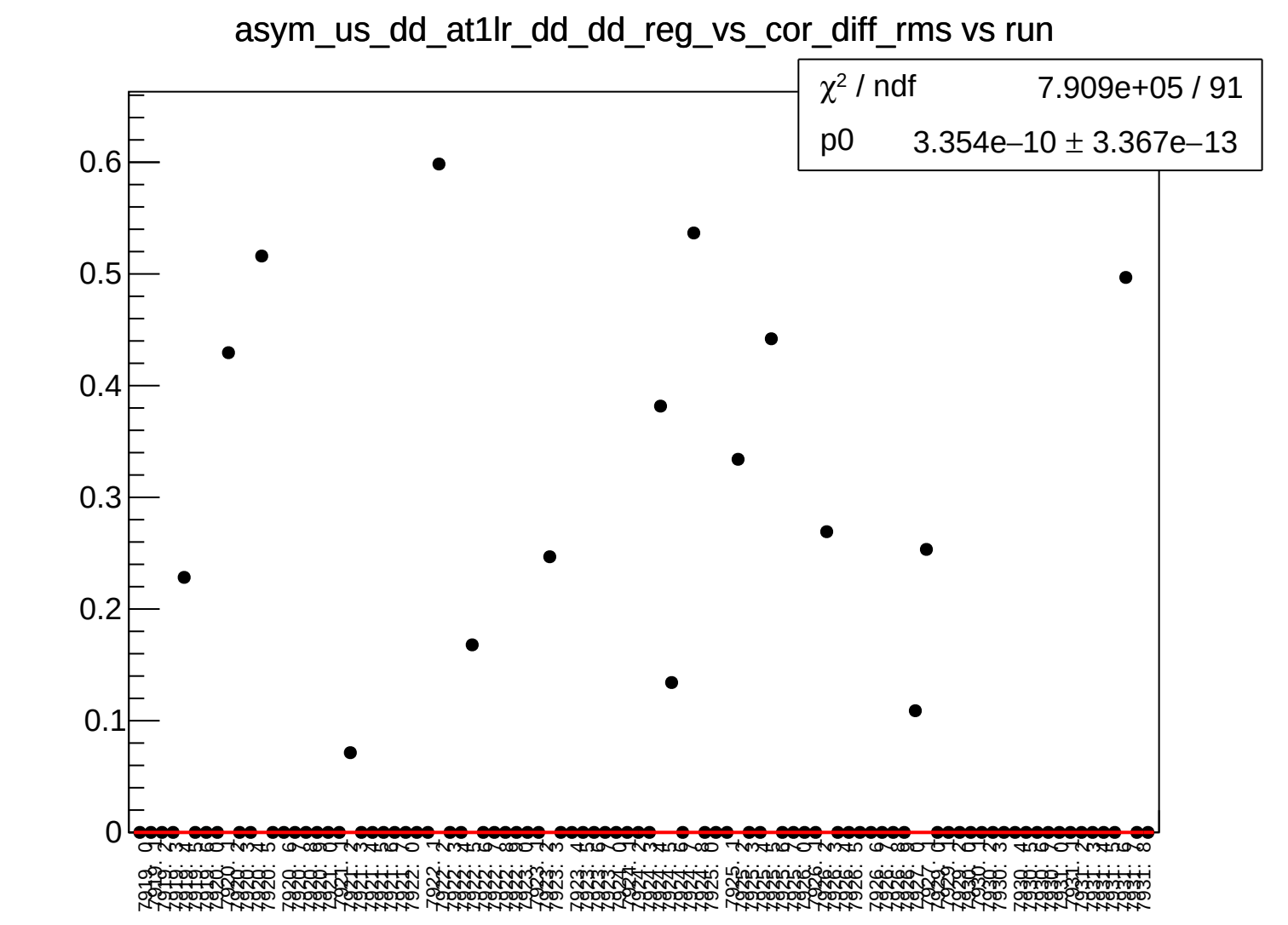

pull1D
Entries 92
Mean −0.002403
Std Dev 0.9877
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

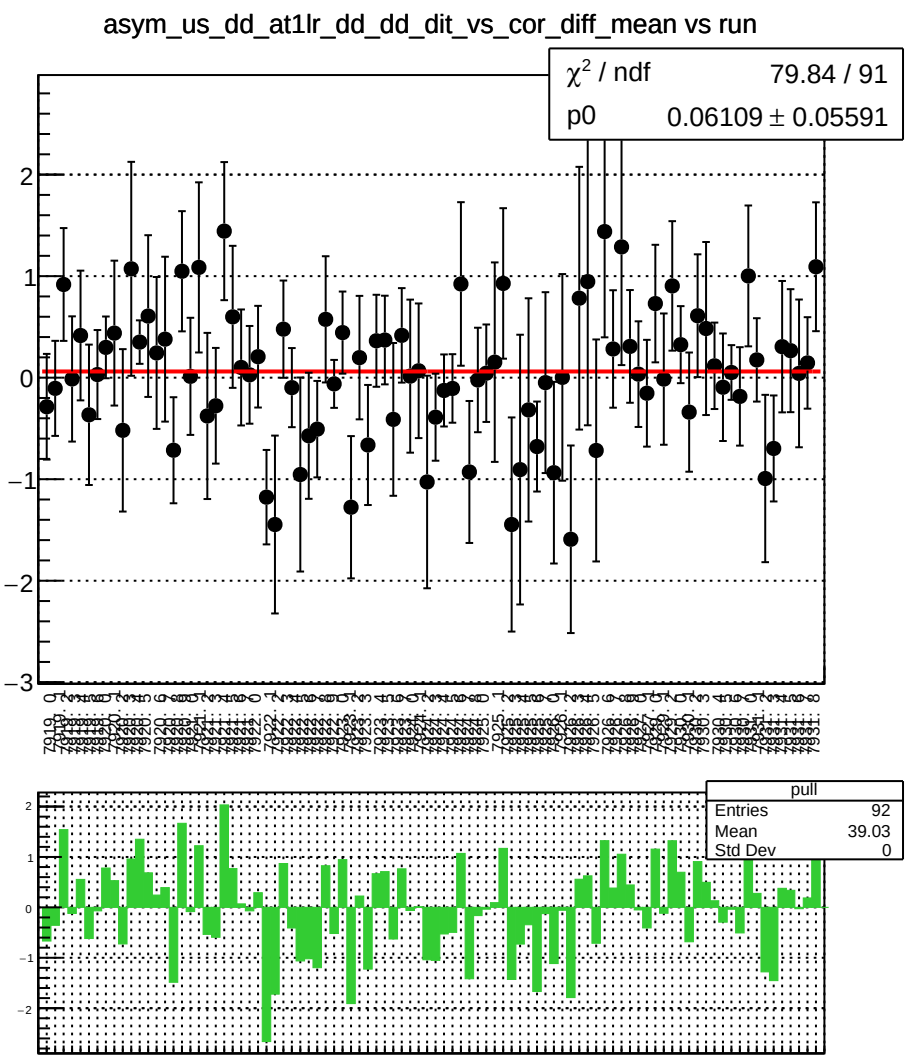

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 2366 / 91
p0 2130 ± 1.596
2400
2300
2200
2100
2000

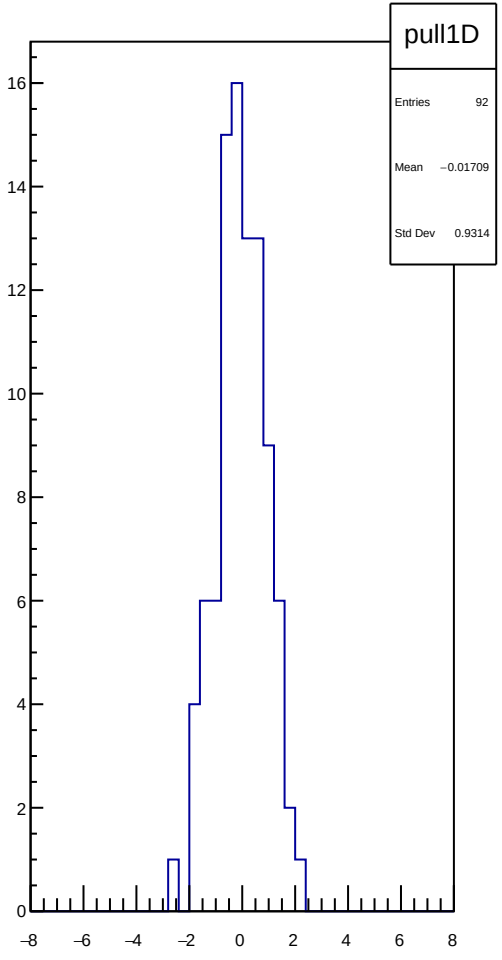

asym_us_dd_at1lr_dd_dd_mean vs run
×10^3
χ² / ndf 103 / 91
p0 4142 ± 2888
100
50
0
−50
−100
pull
Entries 92
Mean 1167
Std Dev 0
pull1D
Entries 92
Mean −0.001974
Std Dev 1.058

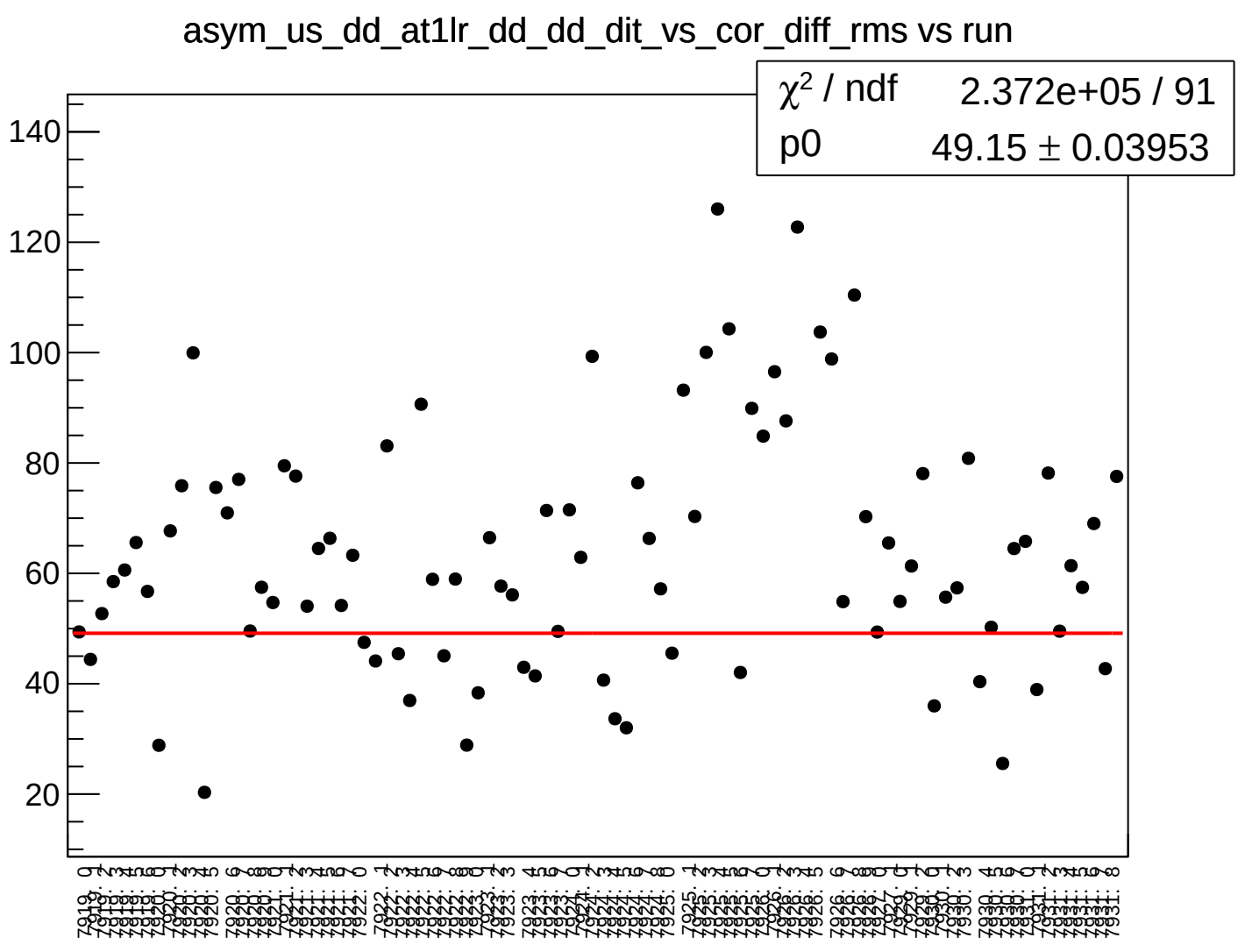

asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 819 / 91
p0 2726 ± 2.042
2950
2900
2850
2800
2750
2700
2650
2600

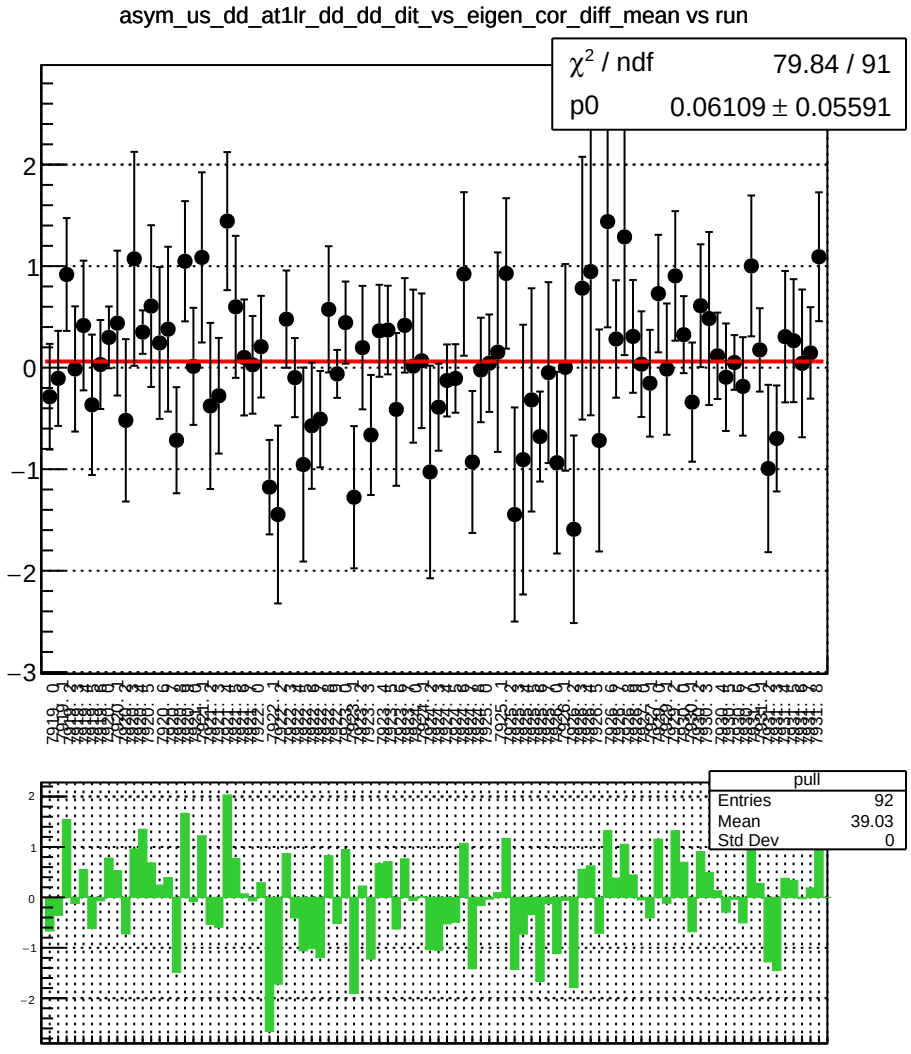

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 77.73 / 91
p0 1.076e−12 ± 4.762e−13
0.01
0.005
0
−0.005
−0.01
pull
Entries 92
Mean 95.6
Std Dev 57.26
pull1D
Entries 92
Mean −0.01615
Std Dev 0.919

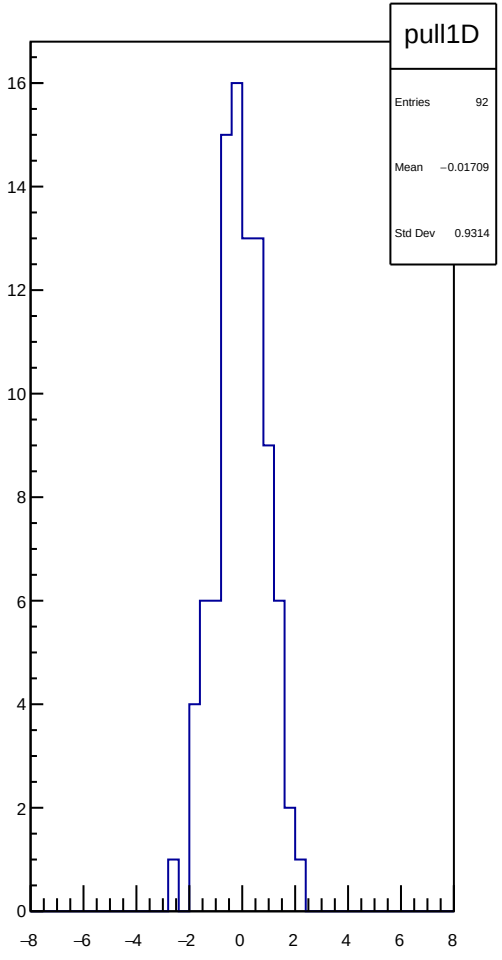

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.909e+05 / 91
p0 3.354e−10 ± 3.367e−13
0.6
0.5
0.4
0.3
0.2
0.1
0

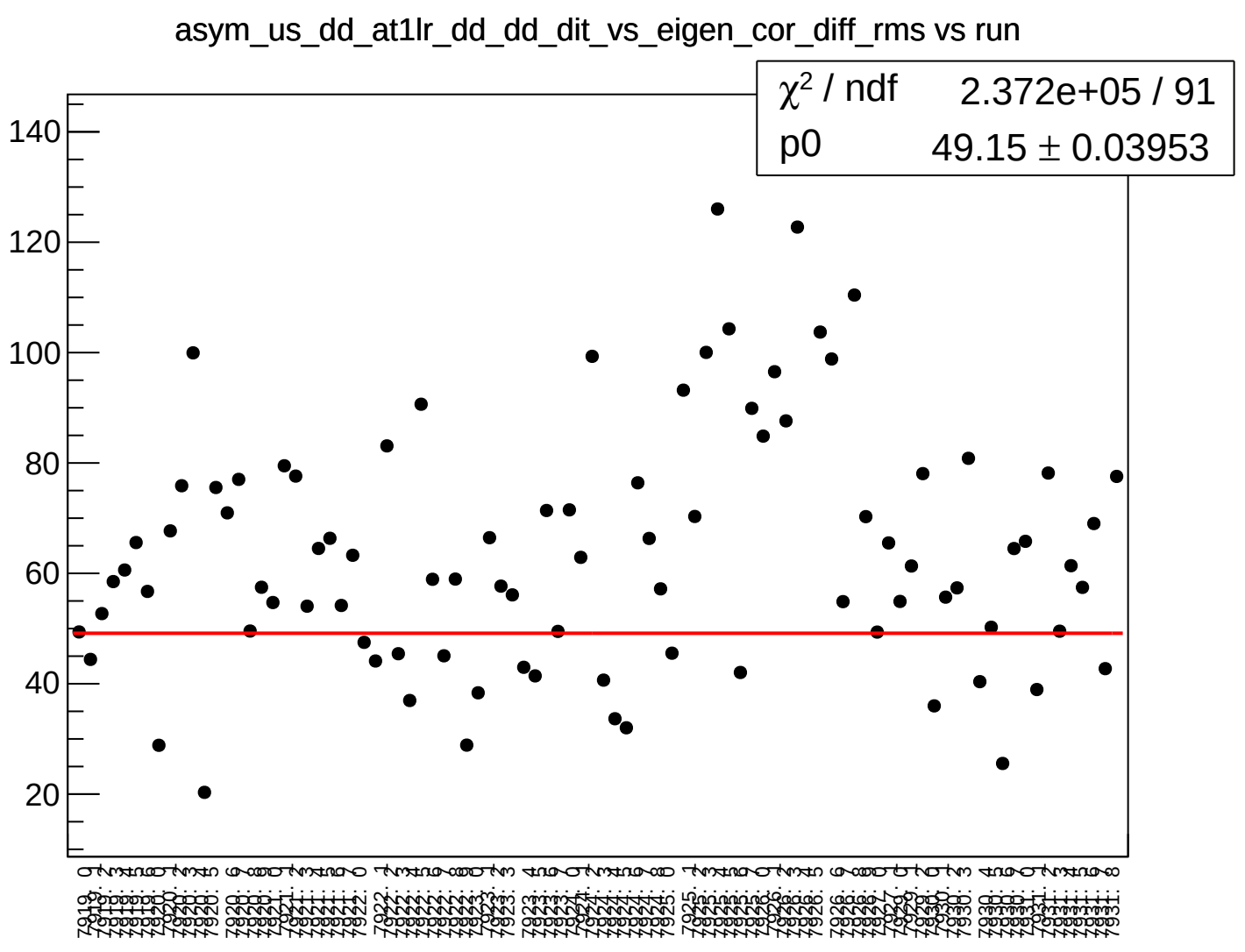

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 79.84 / 91
p0 0.06109 ± 0.05591
pull
Entries 92
Mean 39.03
Std Dev 0

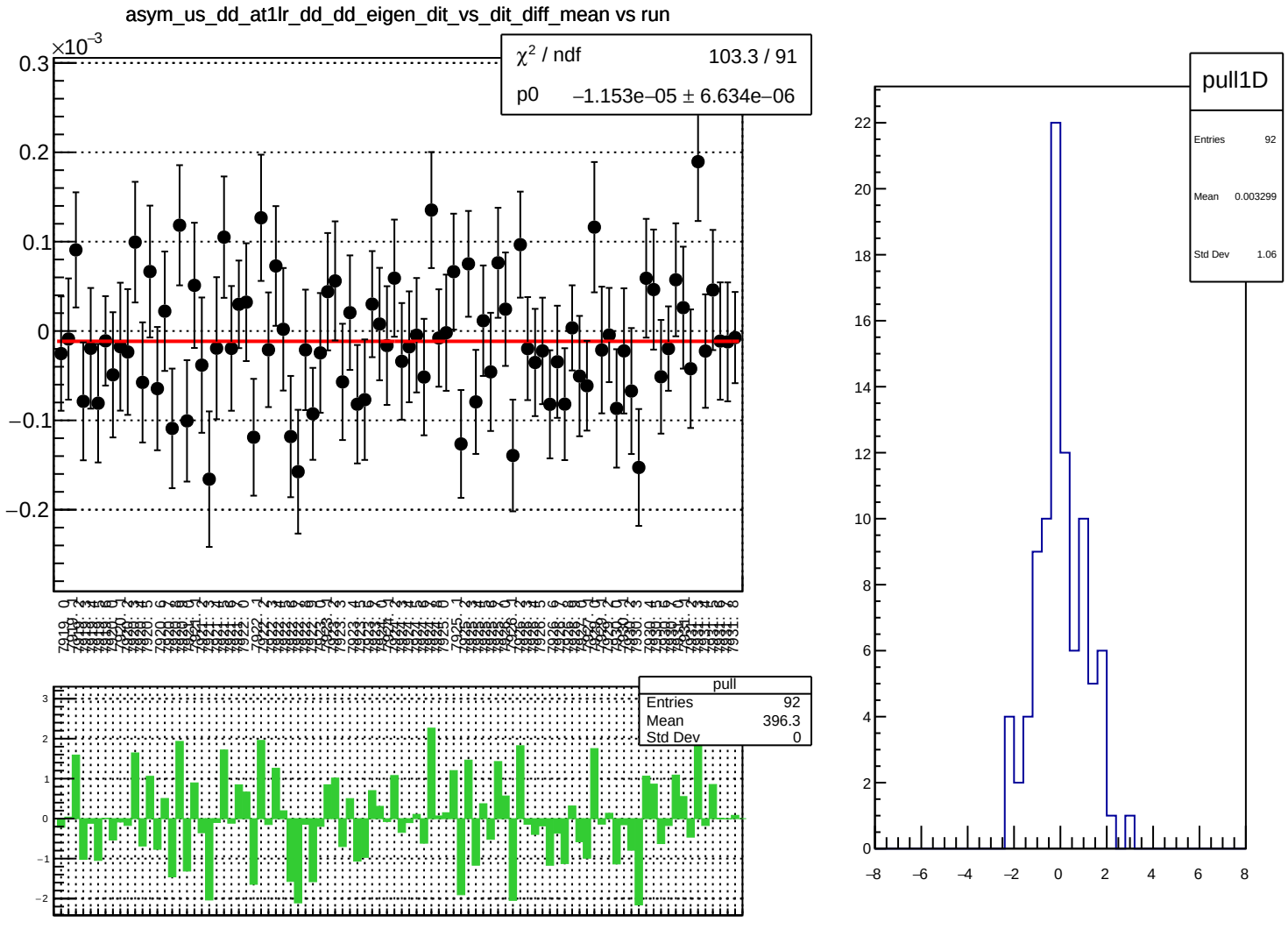

pull1D
Entries 92
Mean −0.01709
Std Dev 0.9314

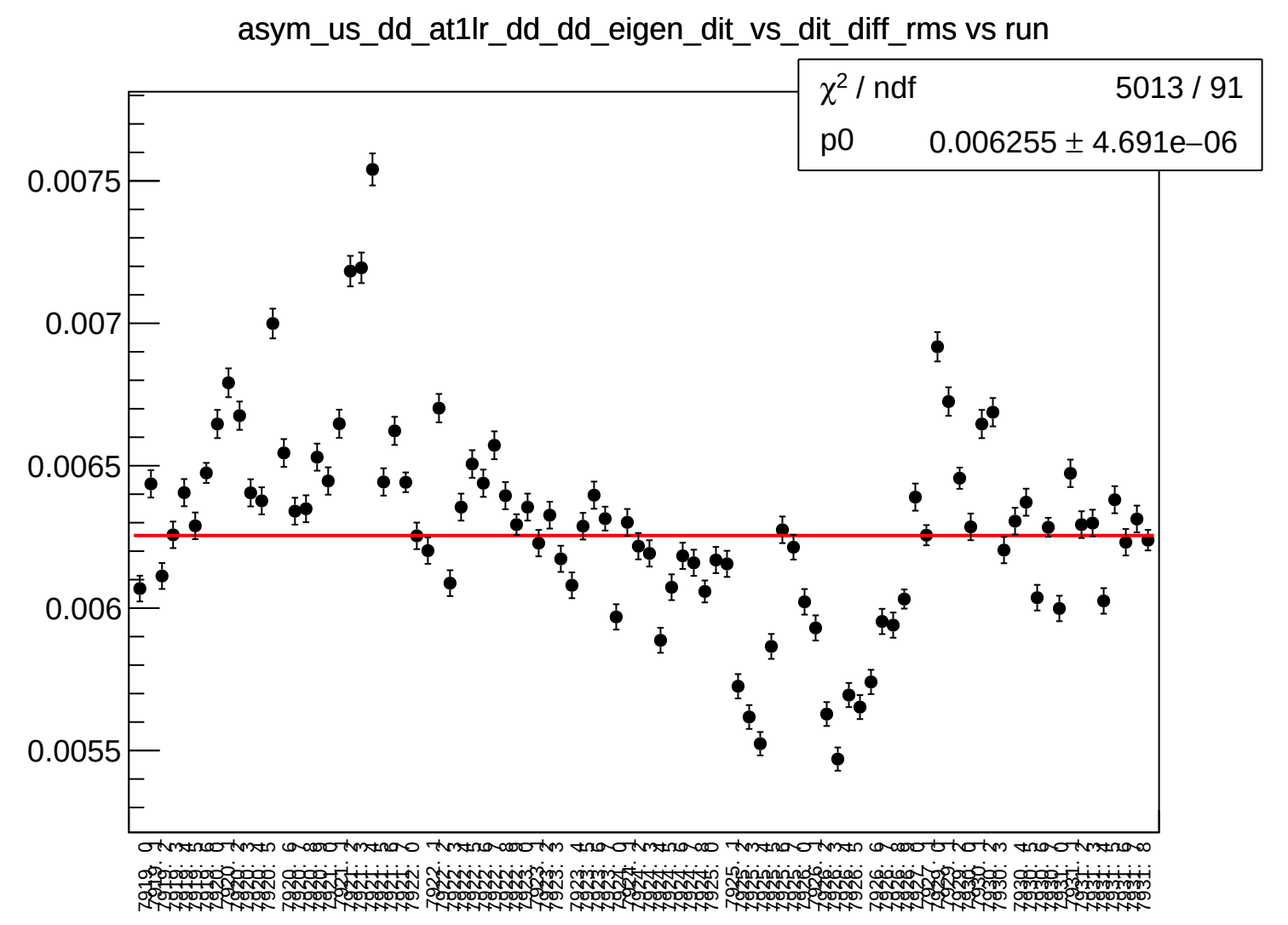

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.372e+05 / 91
p0 49.15 ± 0.03953
140
120
100
80
60
40
20

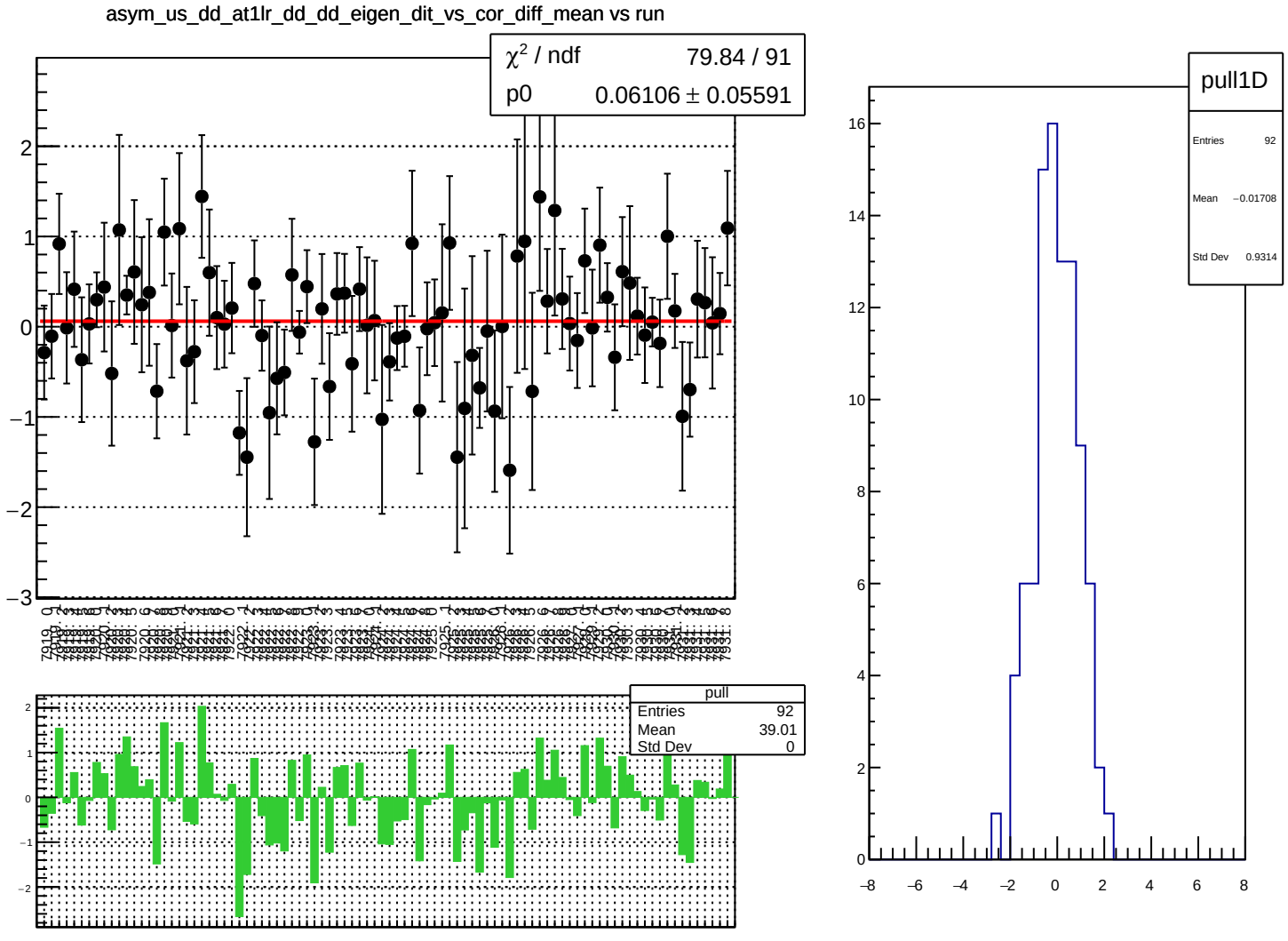

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.84 / 91
p0 0.06109 ± 0.05591
pull
Entries 92
Mean 39.03
Std Dev 0

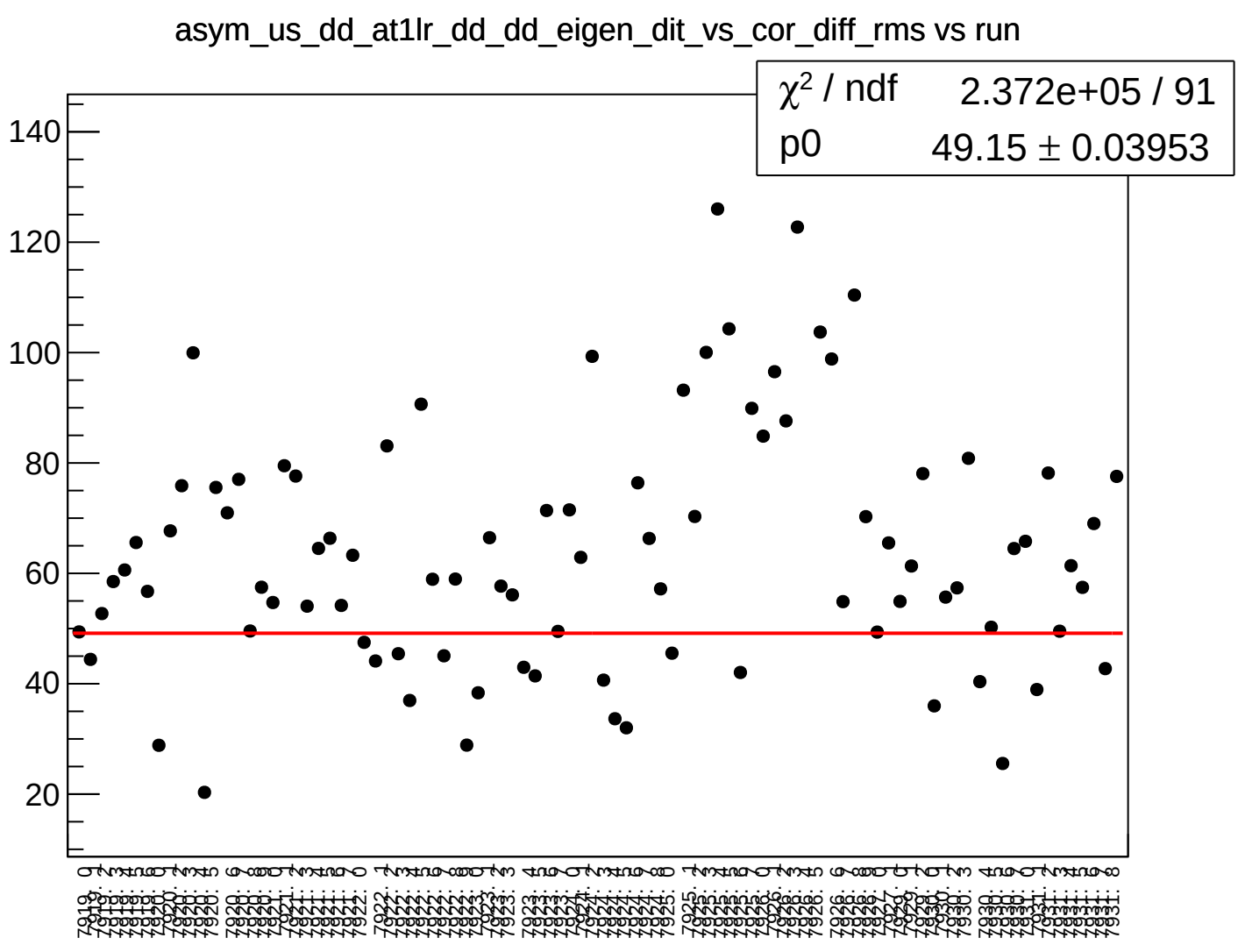

pull1D
Entries 92
Mean −0.01709
Std Dev 0.9314

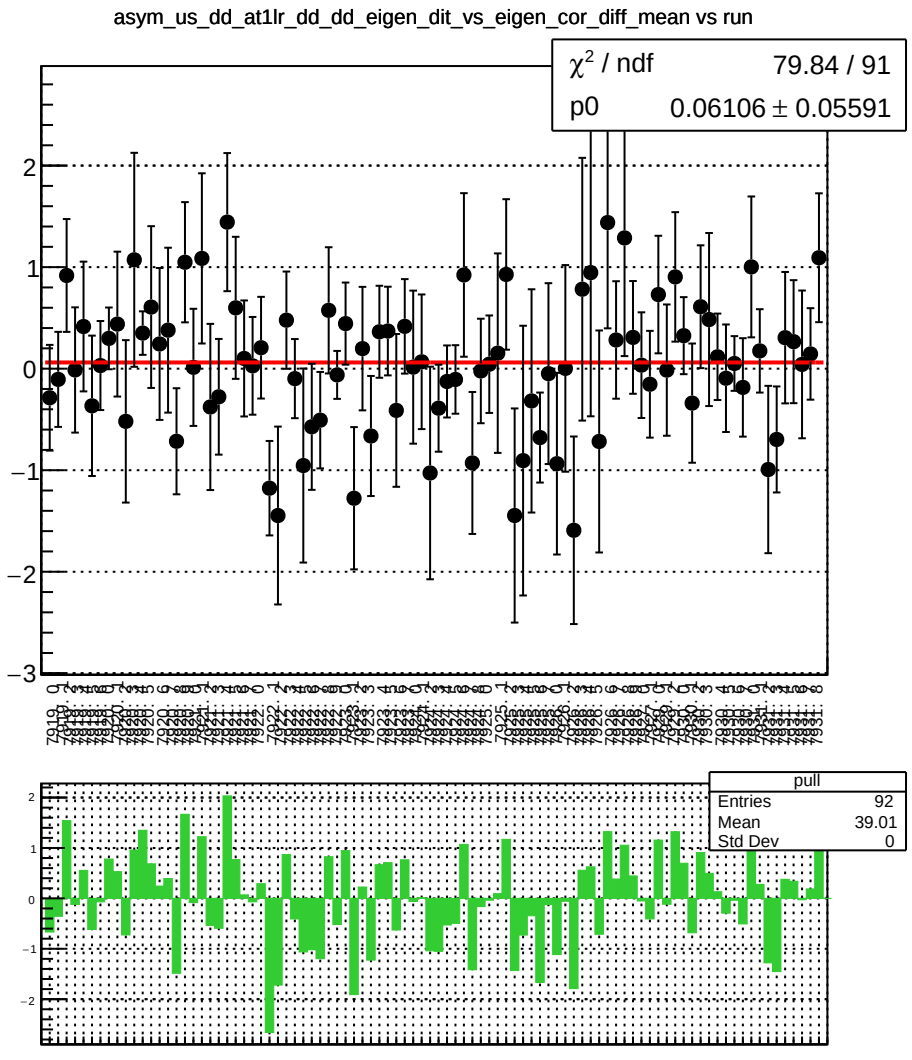

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.372e+05 / 91
p0 49.15 ± 0.03953
140
120
100
80
60
40
20

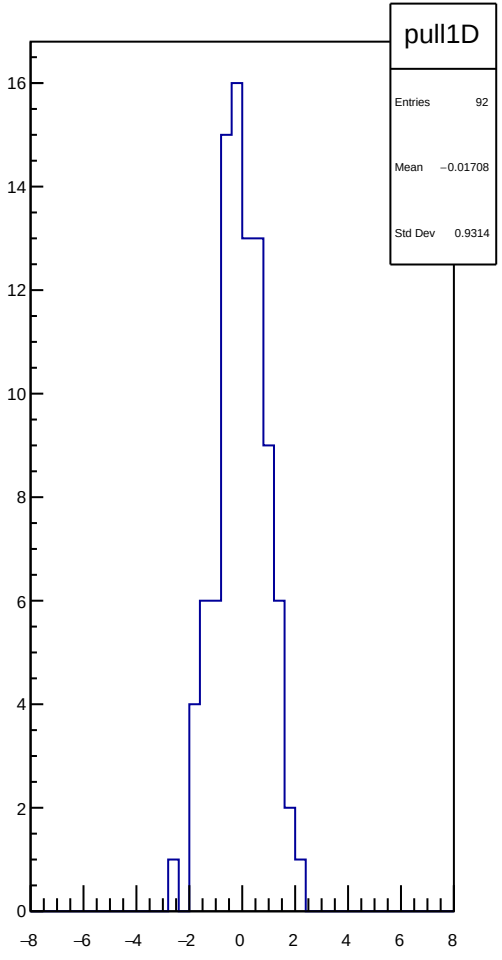

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 103.3 / 91
p0 −1.153e−05 ± 6.634e−06
pull
Entries 92
Mean 396.3
Std Dev 0
pull1D
Entries 92
Mean 0.003299
Std Dev 1.06

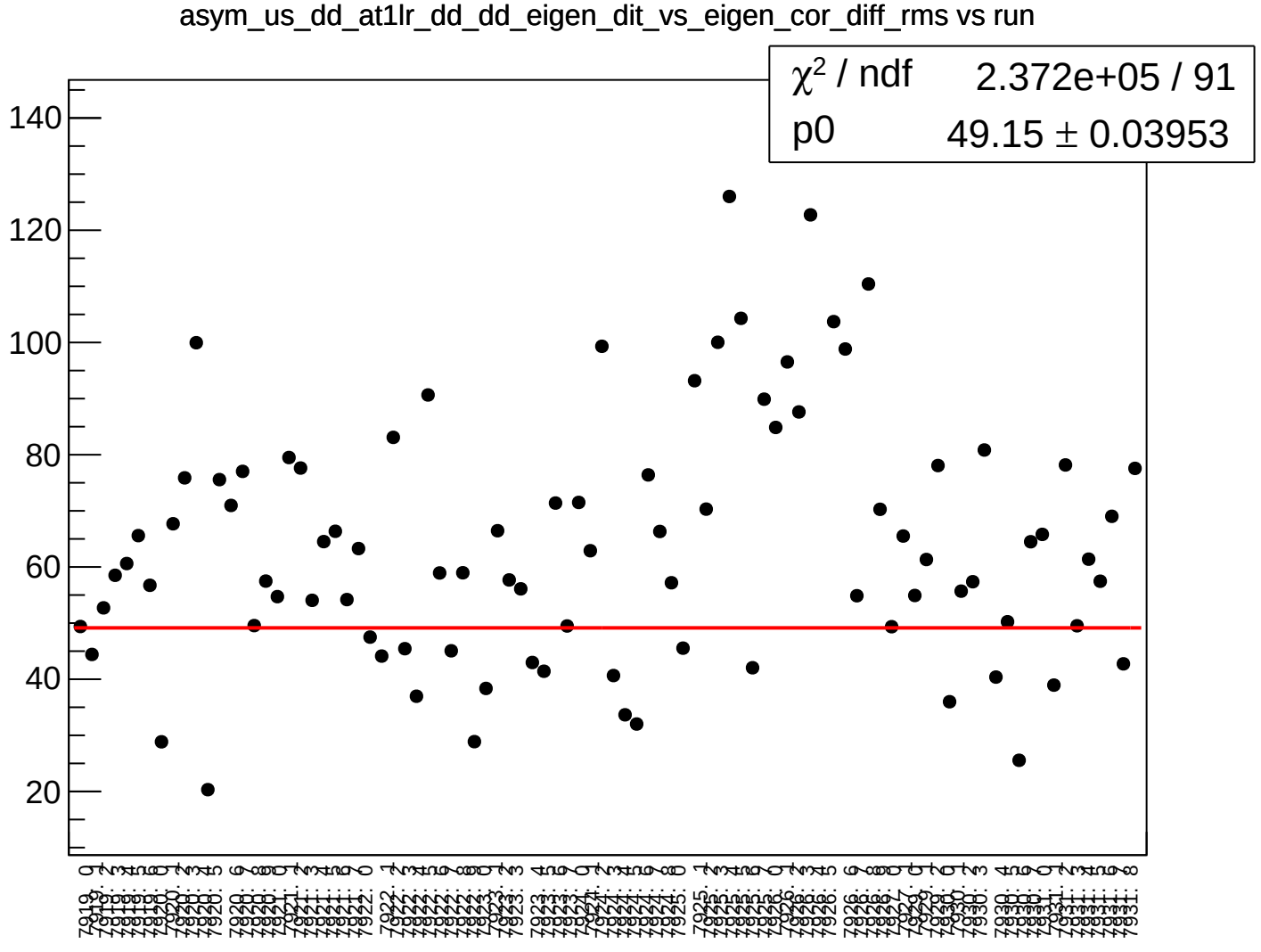

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5013 / 91
p0 0.006255 ± 4.691e−06
0.0075
0.007
0.0065
0.006
0.0055

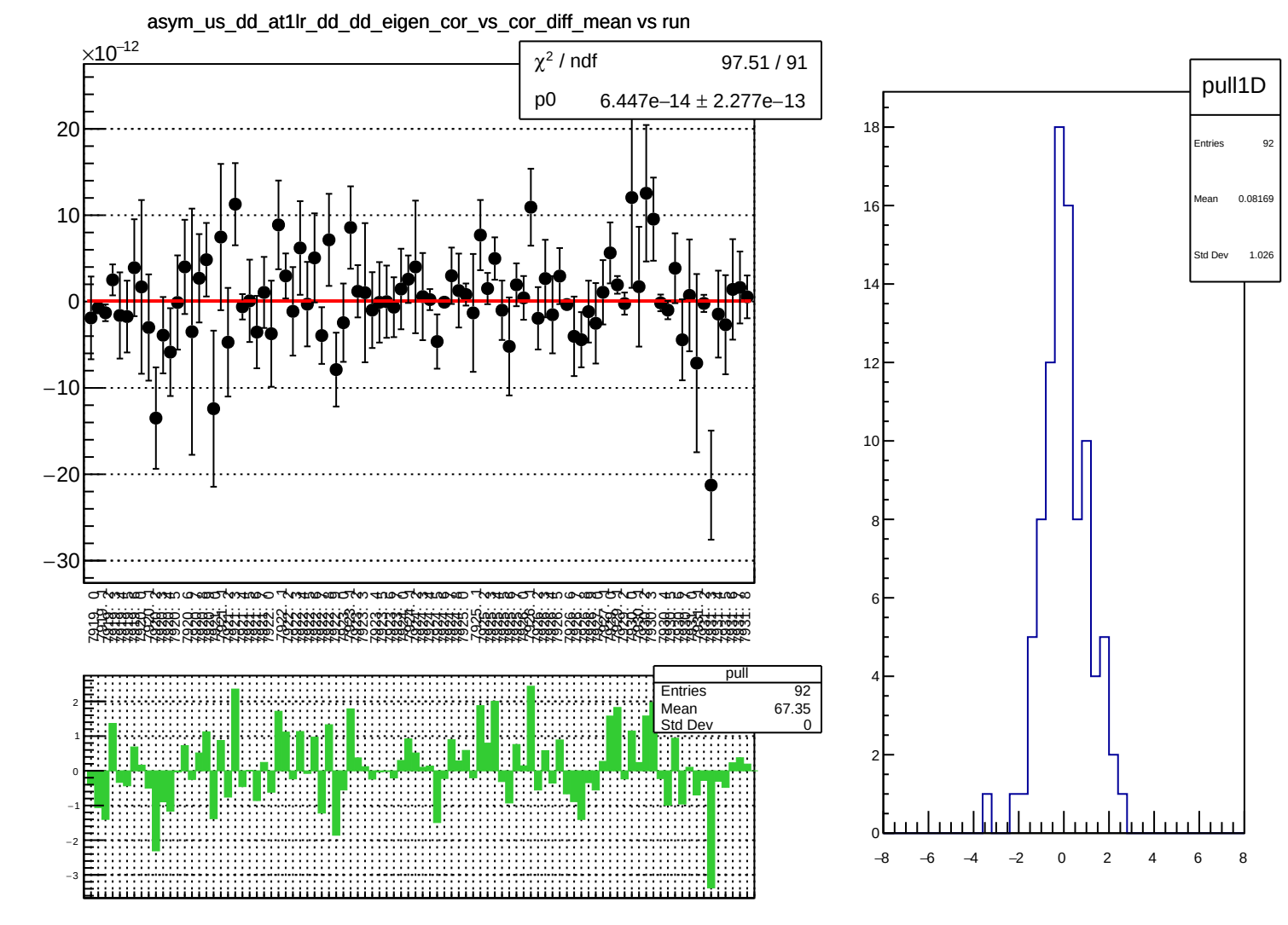

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.84 / 91
p0 0.06106 ± 0.05591
pull
Entries 92
Mean 39.01
Std Dev 0
pull1D
Entries 92
Mean −0.01708
Std Dev 0.9314

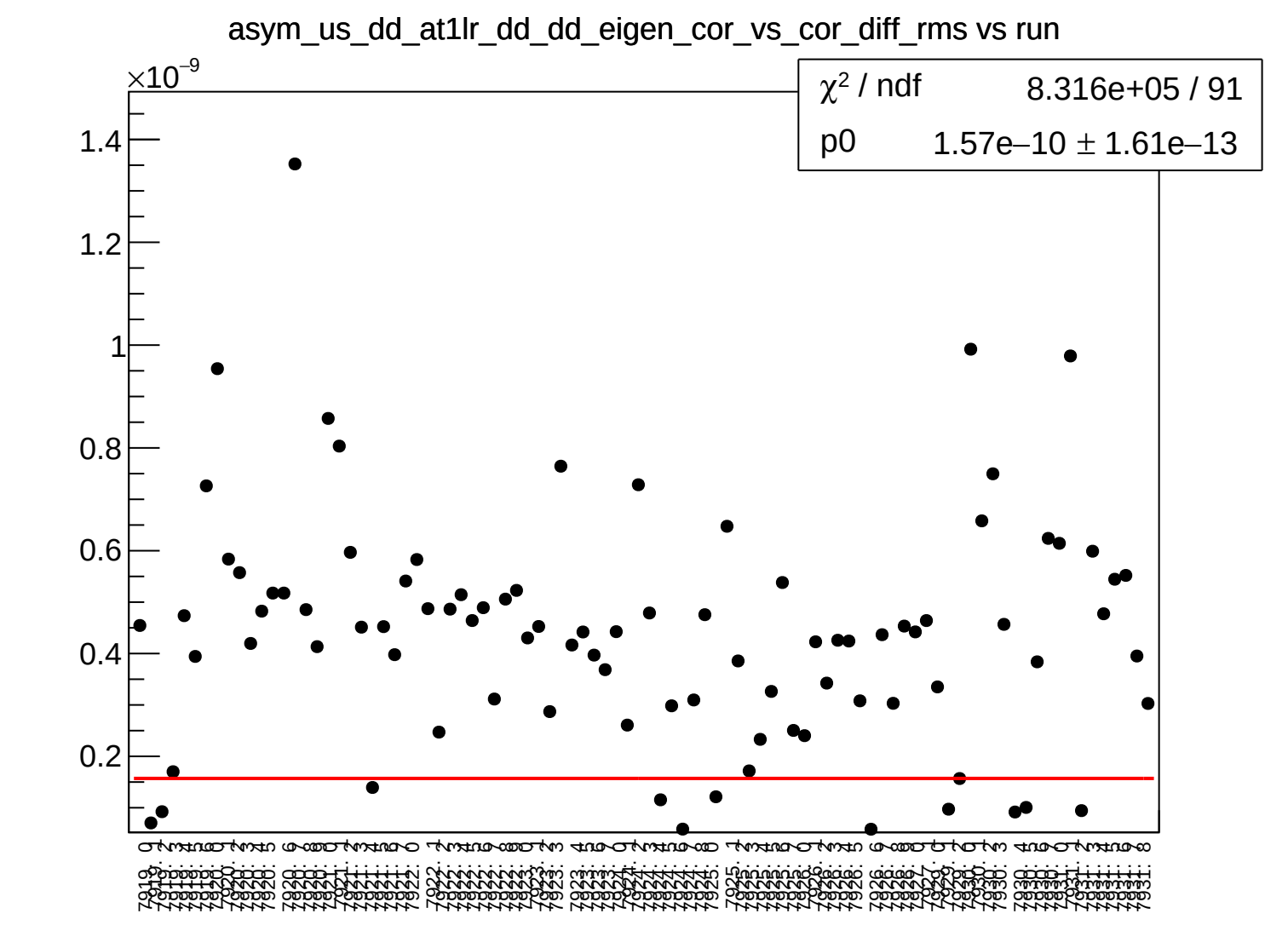

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.372e+05 / 91
p0 49.15 ± 0.03953
140
120
100
80
60
40
20

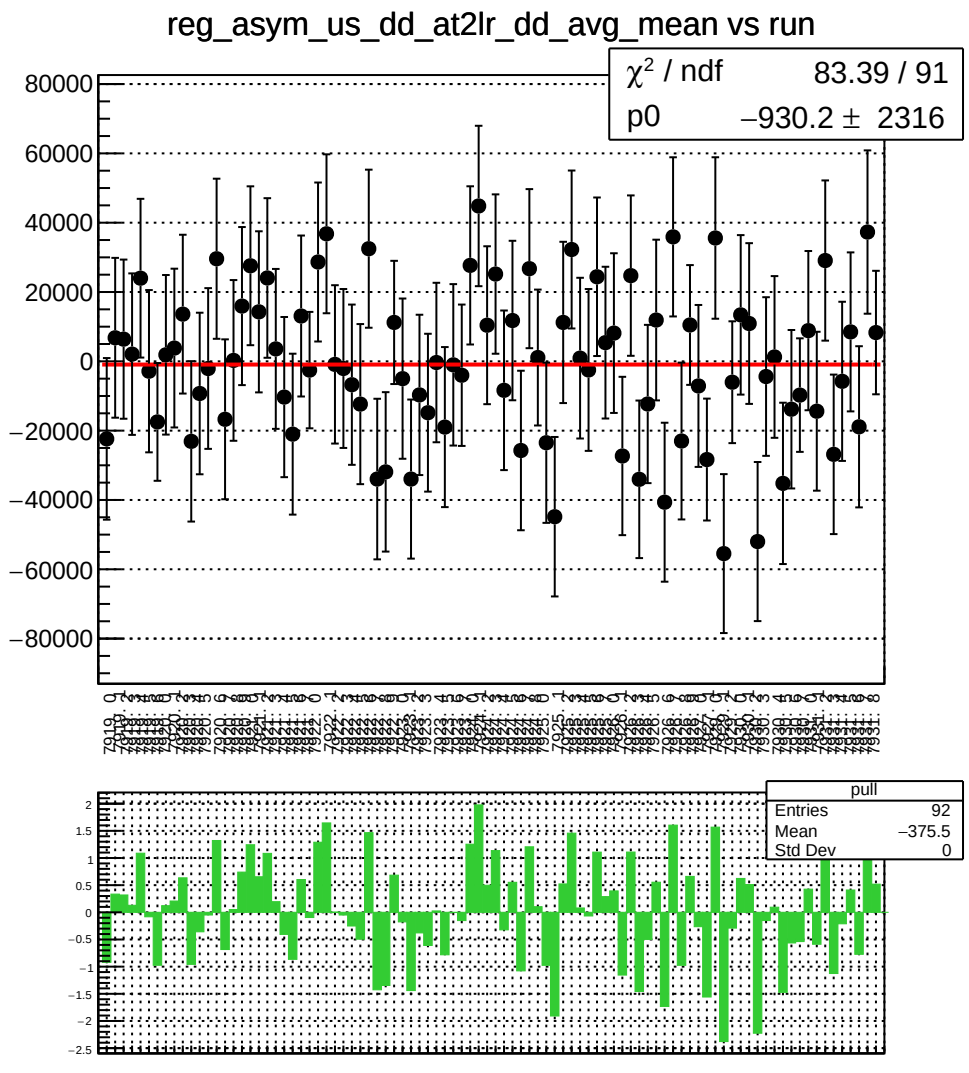

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.84 / 91
p0 0.06106 ± 0.05591
pull
Entries 92
Mean 39.01
Std Dev 0

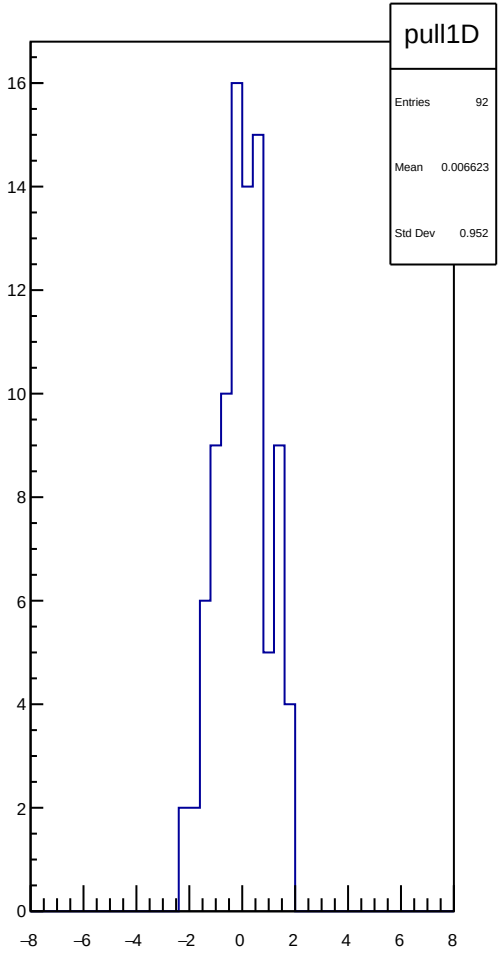

pull1D
Entries 92
Mean −0.01708
Std Dev 0.9314

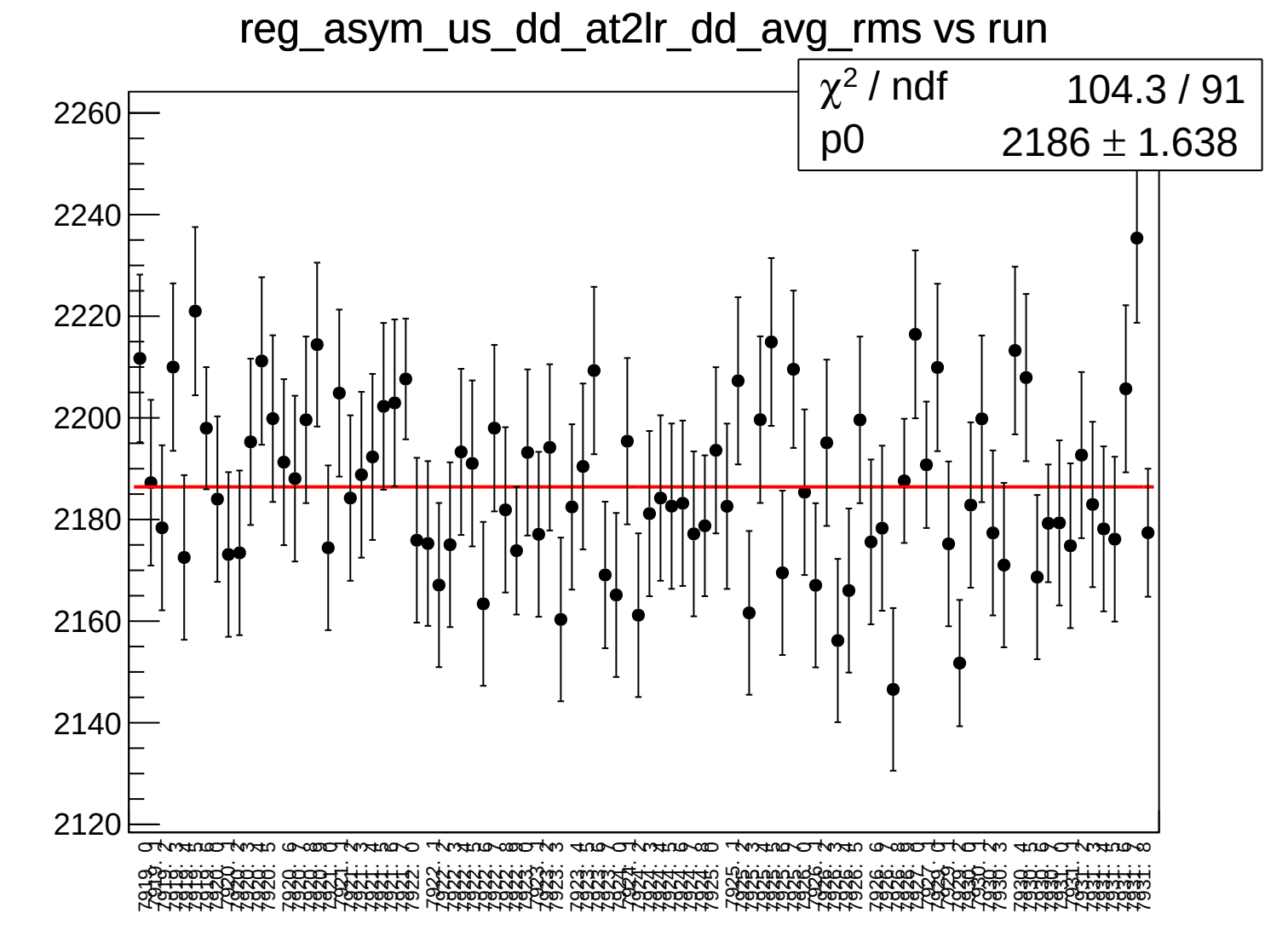

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.372e+05 / 91
p0 49.15 ± 0.03953
140
120
100
80
60
40
20

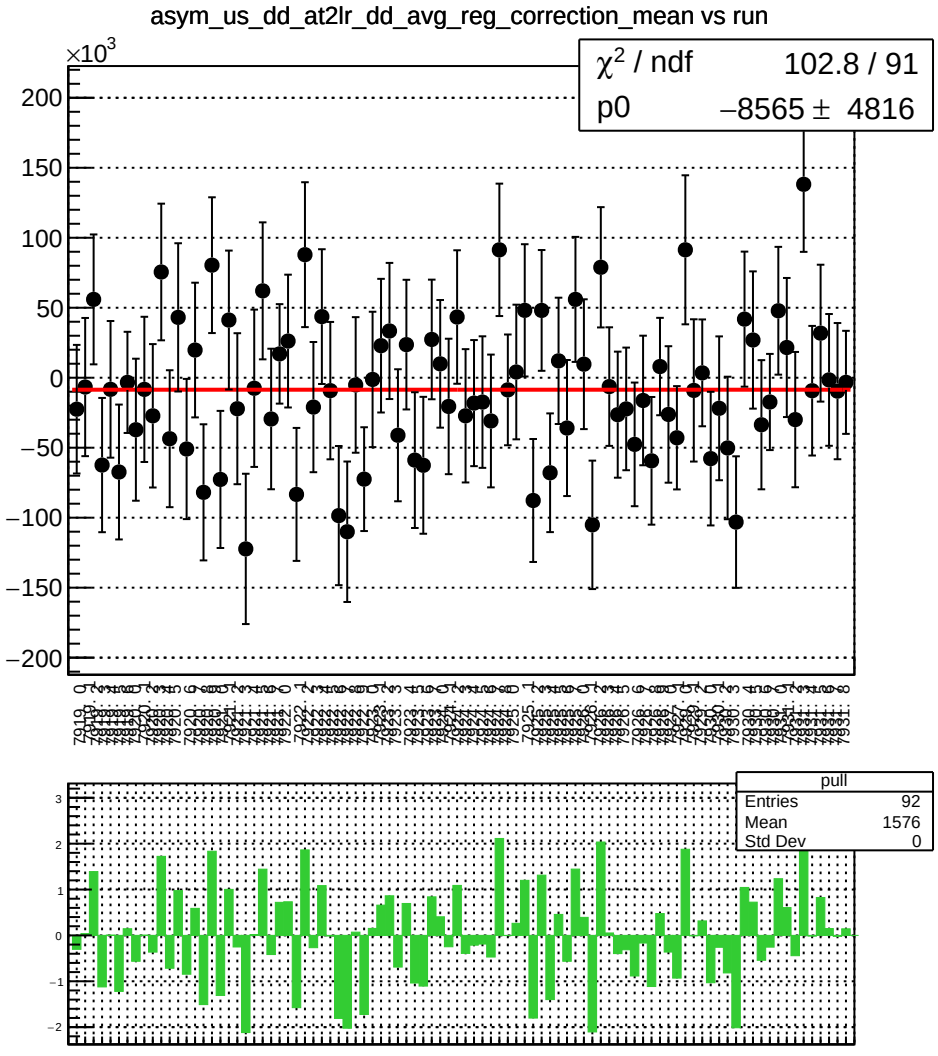

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 97.51 / 91
p0 6.447e−14 ± 2.277e−13
pull
Entries 92
Mean 67.35
Std Dev 0
pull1D
Entries 92
Mean 0.08169
Std Dev 1.026

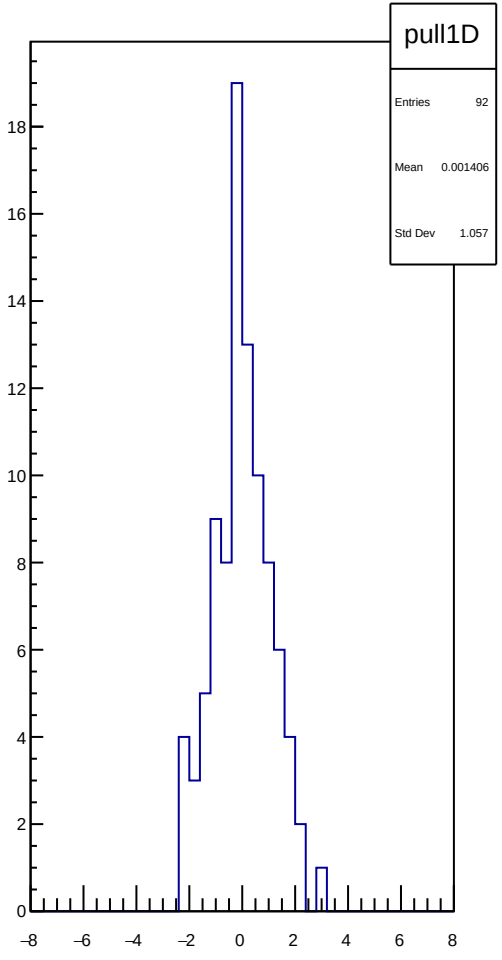

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.316e+05 / 91
p0 1.57e−10 ± 1.61e−13
1.4
1.2
1
0.8
0.6
0.4
0.2

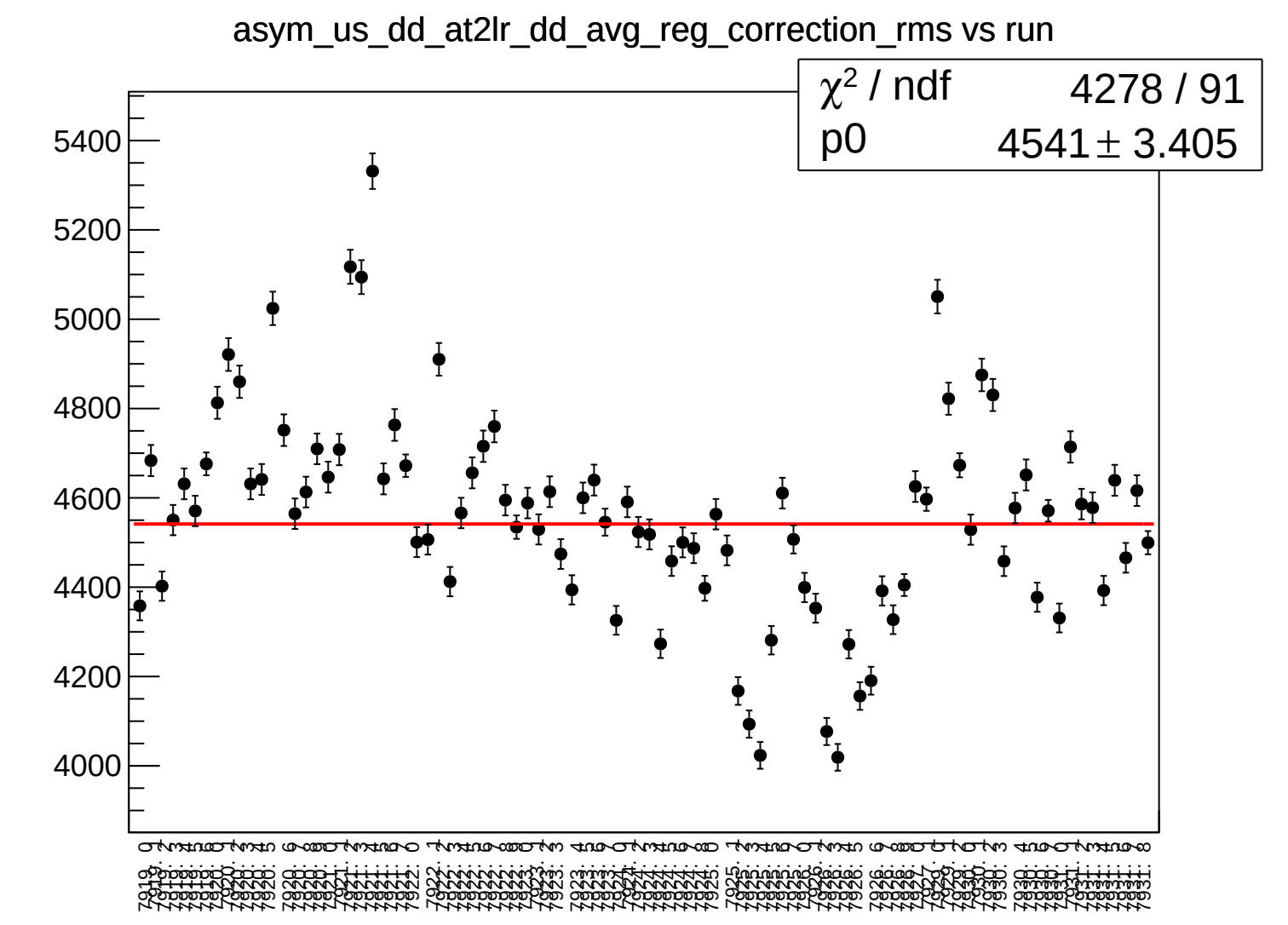

reg_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 83.39 / 91
p0 −930.2 ± 2316
pull
Entries 92
Mean −375.5
Std Dev 0

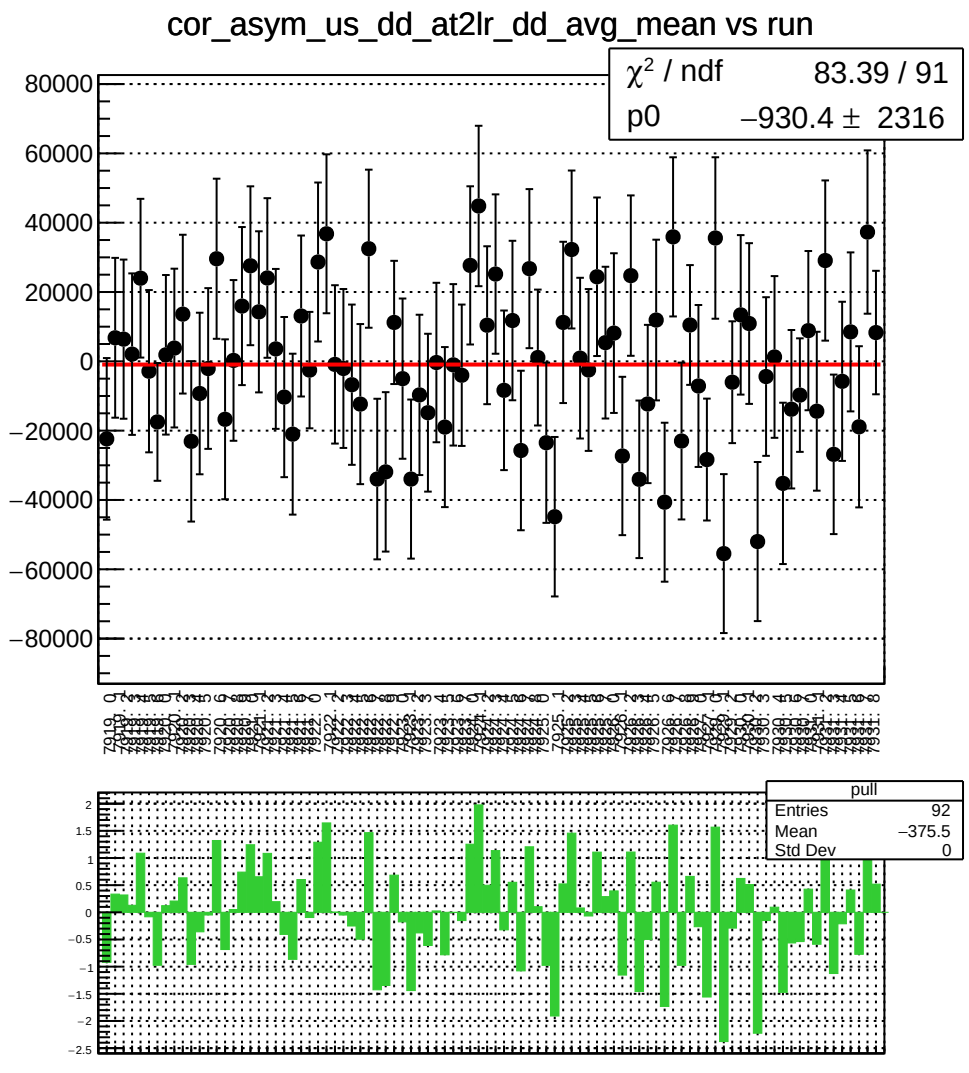

pull1D
Entries 92
Mean 0.006623
Std Dev 0.952

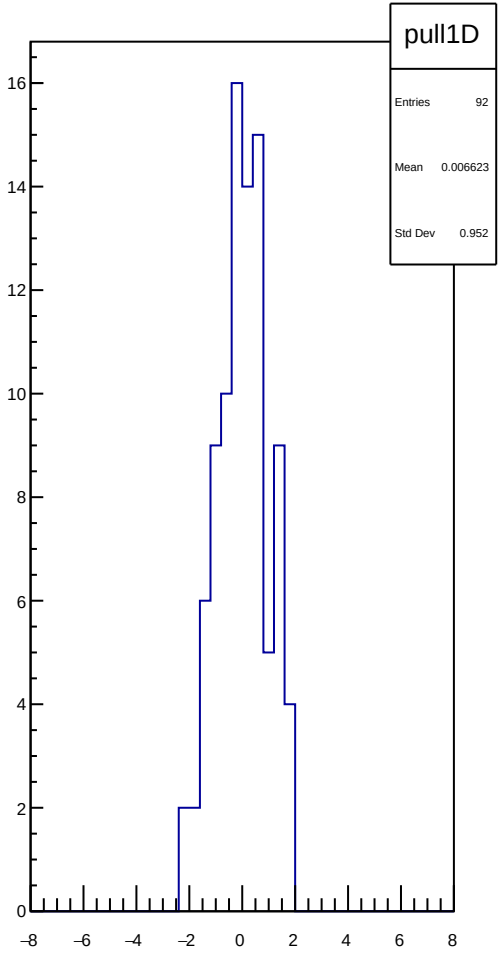

reg_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 104.3 / 91
p0 2186 ± 1.638
2260
2240
2220
2200
2180
2160
2140
2120

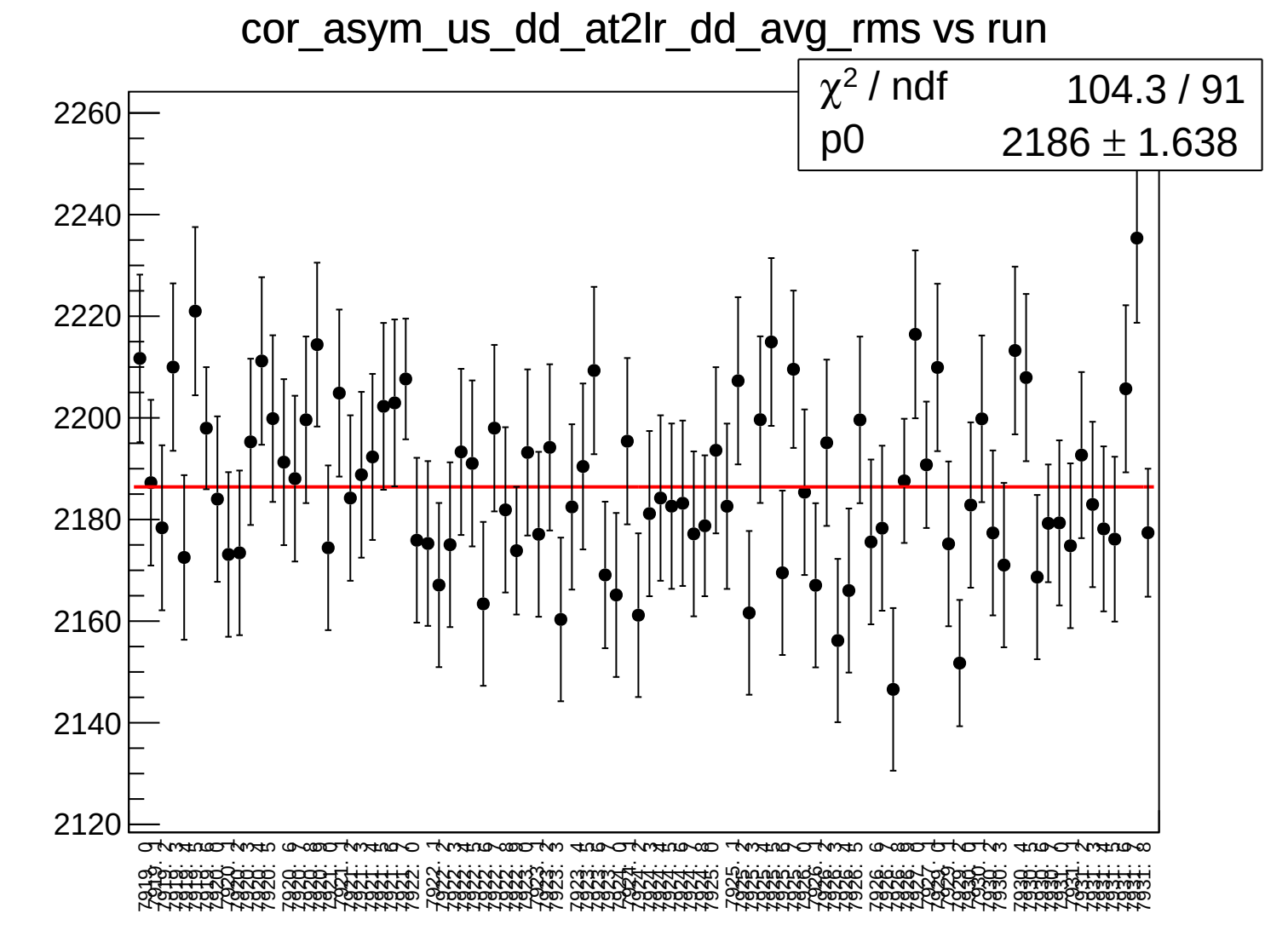

asym_us_dd_at2lr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 102.8 / 91
p0 −8565 ± 4816
pull
Entries 92
Mean 1576
Std Dev 0

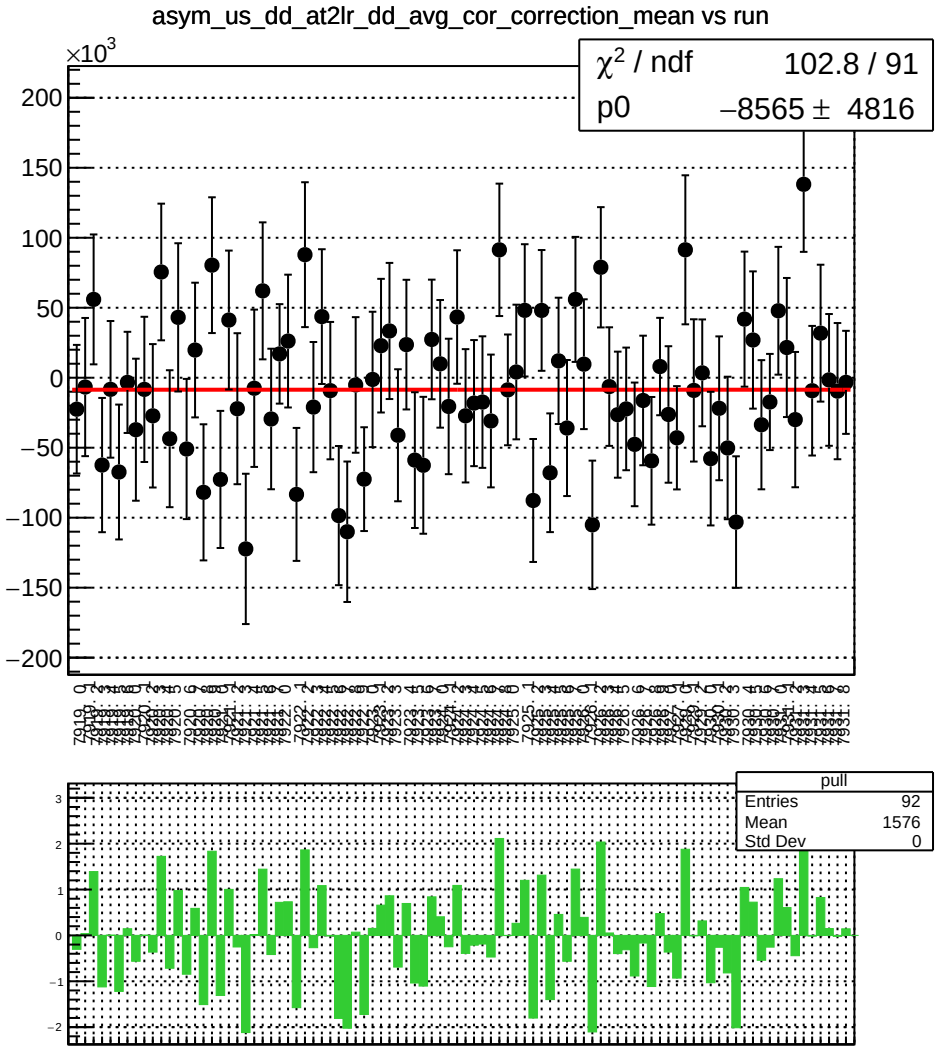

pull1D
Entries 92
Mean 0.001406
Std Dev 1.057

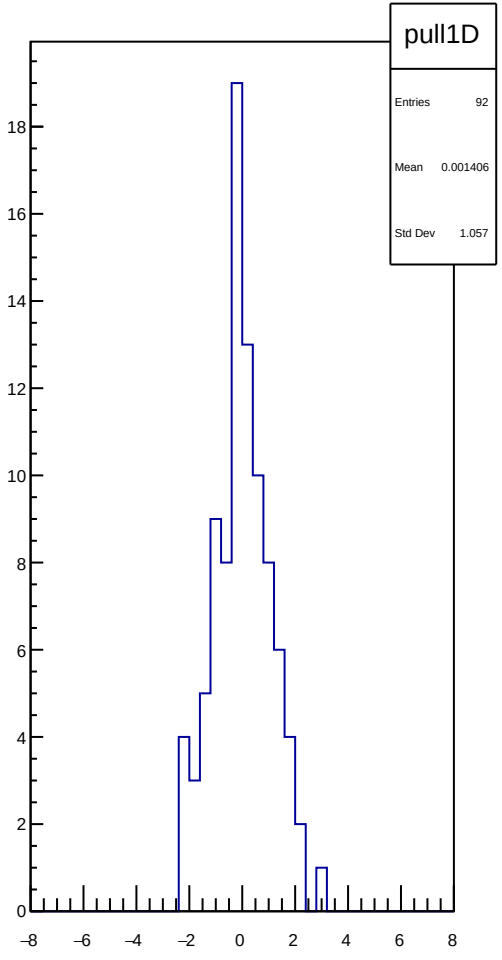

asym_us_dd_at2lr_dd_avg_reg_correction_rms vs run
χ^2 / ndf 4278 / 91
p0 4541 ± 3.405
5400
5200
5000
4800
4600
4400
4200
4000

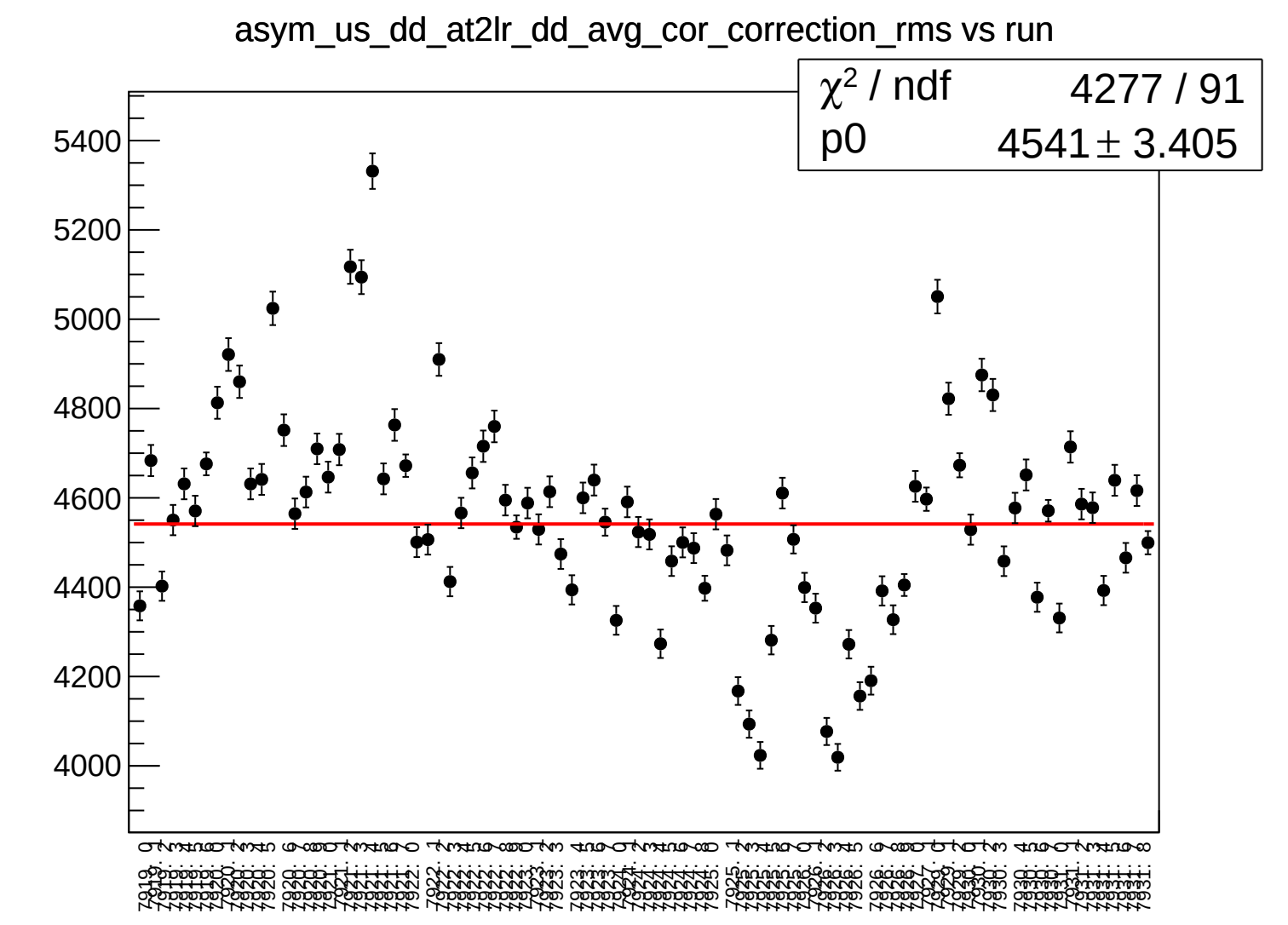

cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 83.39 / 91
p0 −930.4 ± 2316
pull
Entries 92
Mean −375.5
Std Dev 0

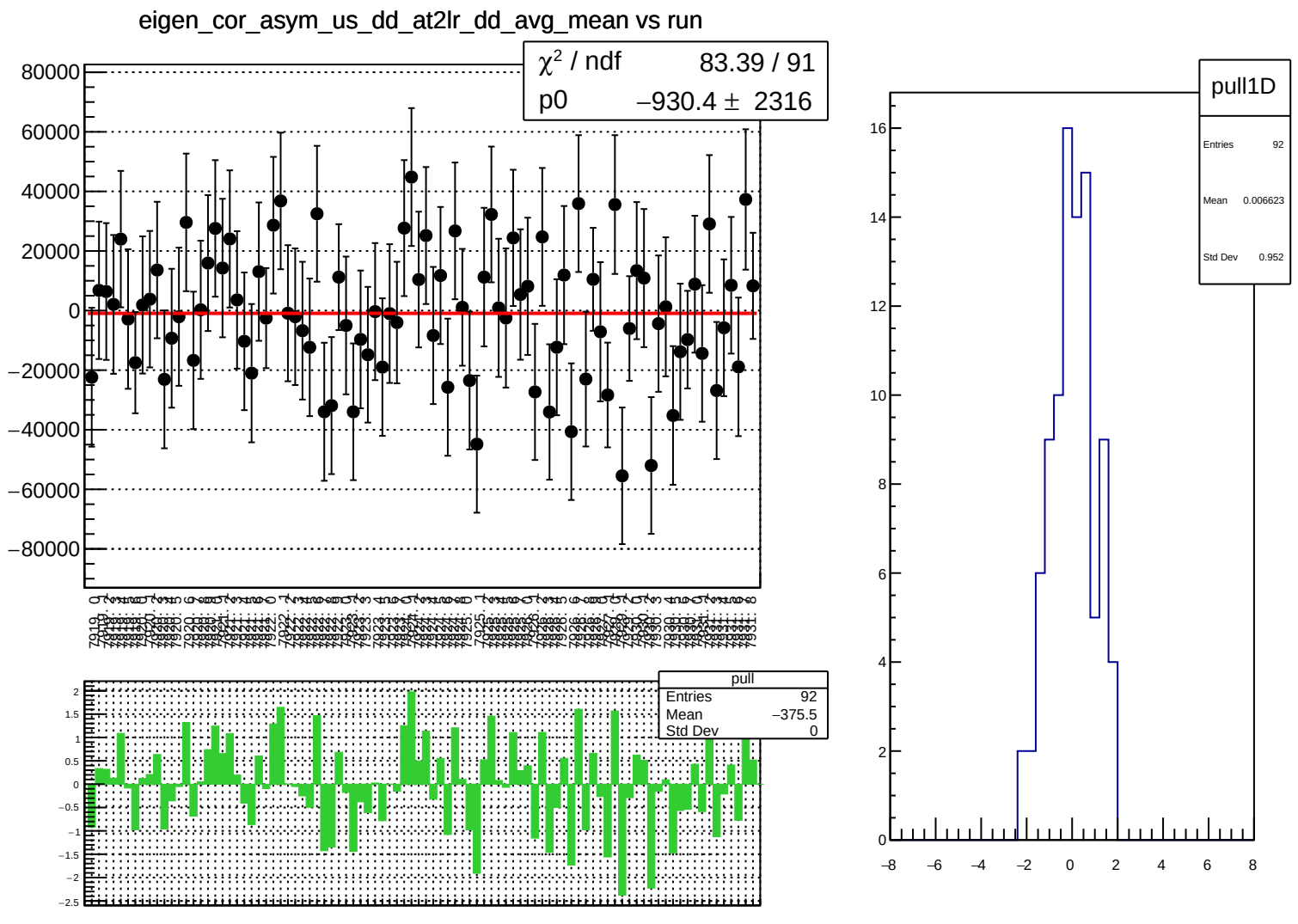

pull1D
Entries 92
Mean 0.006623
Std Dev 0.952

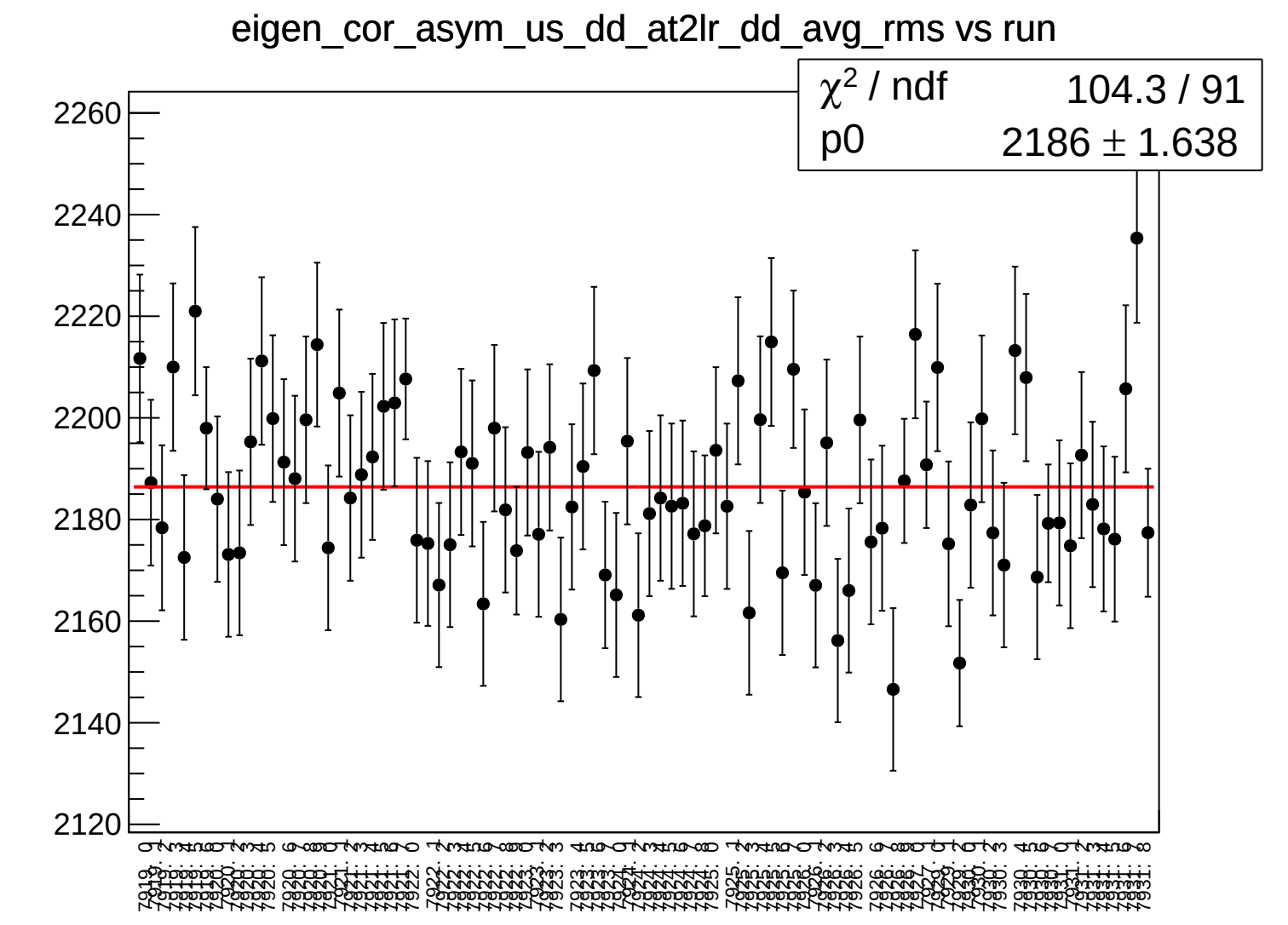

cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 104.3 / 91
p0 2186 ± 1.638
2260
2240
2220
2200
2180
2160
2140
2120

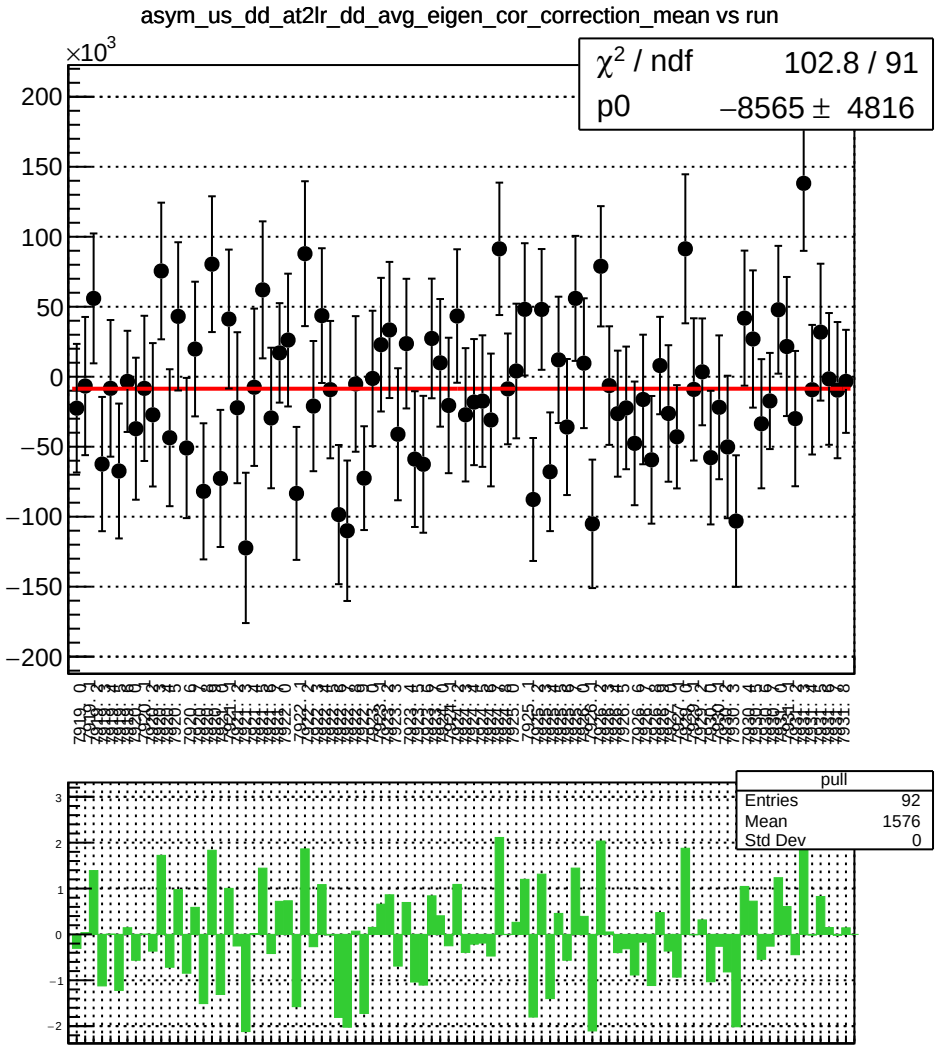

asym_us_dd_at2lr_dd_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 102.8 / 91
p0 −8565 ± 4816
pull
Entries 92
Mean 1576
Std Dev 0

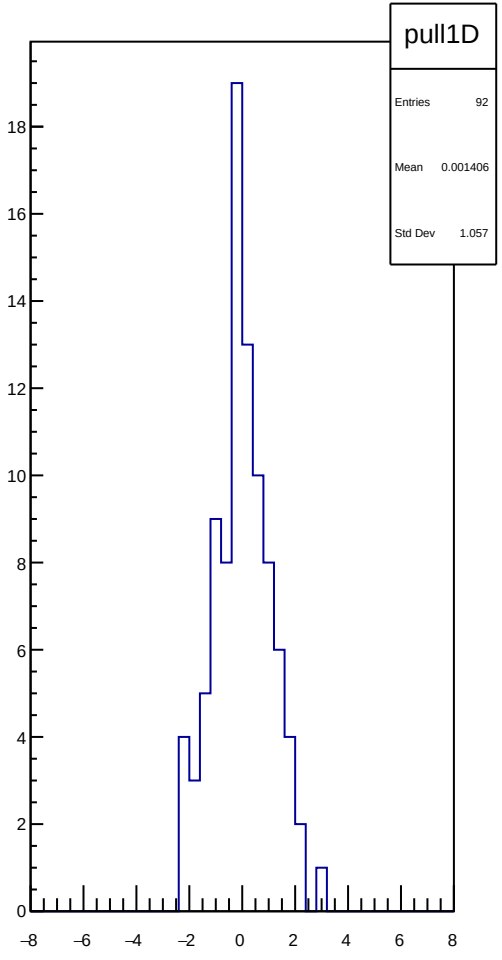

pull1D
Entries 92
Mean 0.001406
Std Dev 1.057

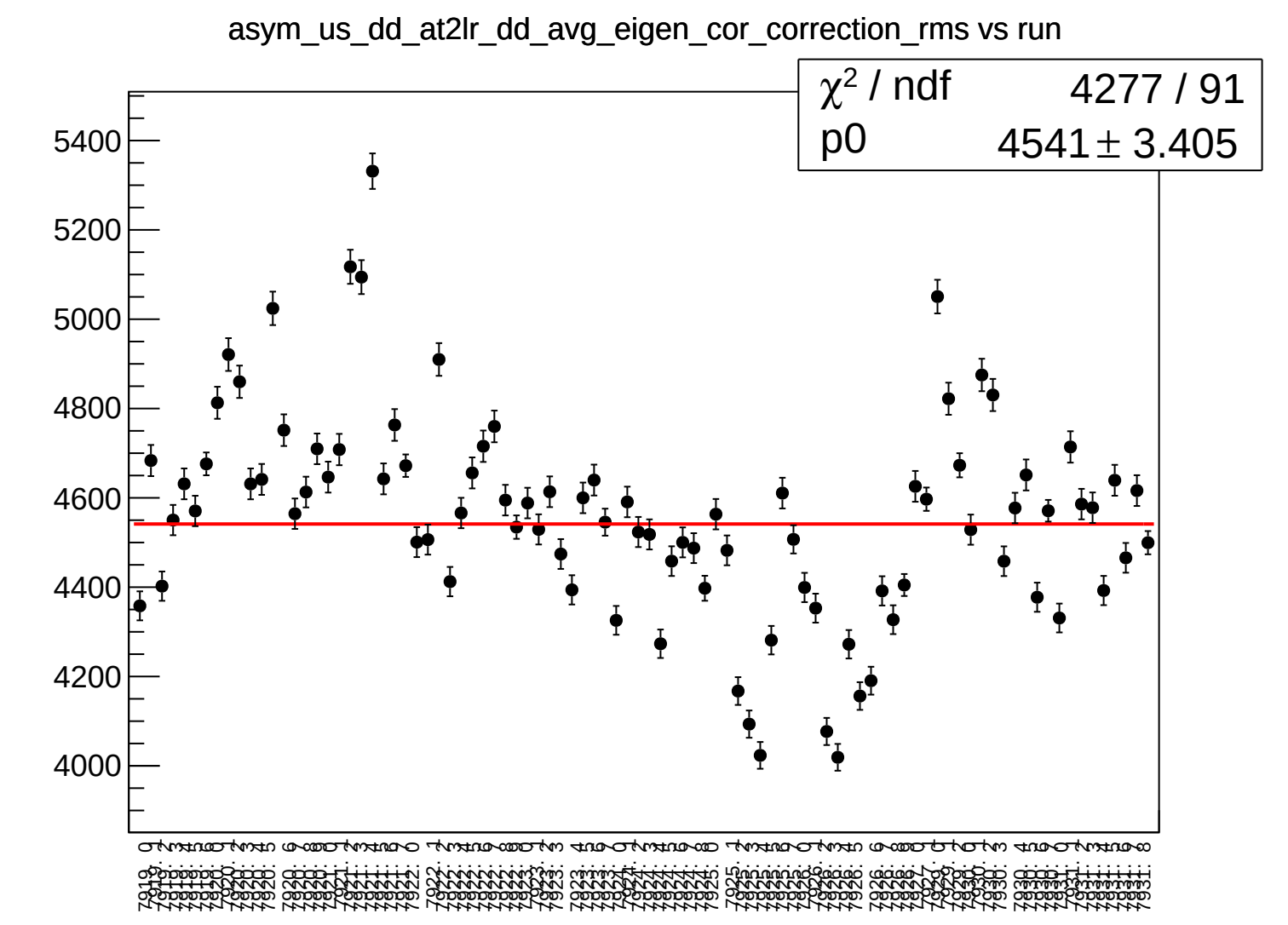

asym_us_dd_at2lr_dd_avg_cor_correction_rms vs run
χ² / ndf 4277 / 91
p0 4541 ± 3.405
5400
5200
5000
4800
4600
4400
4200
4000

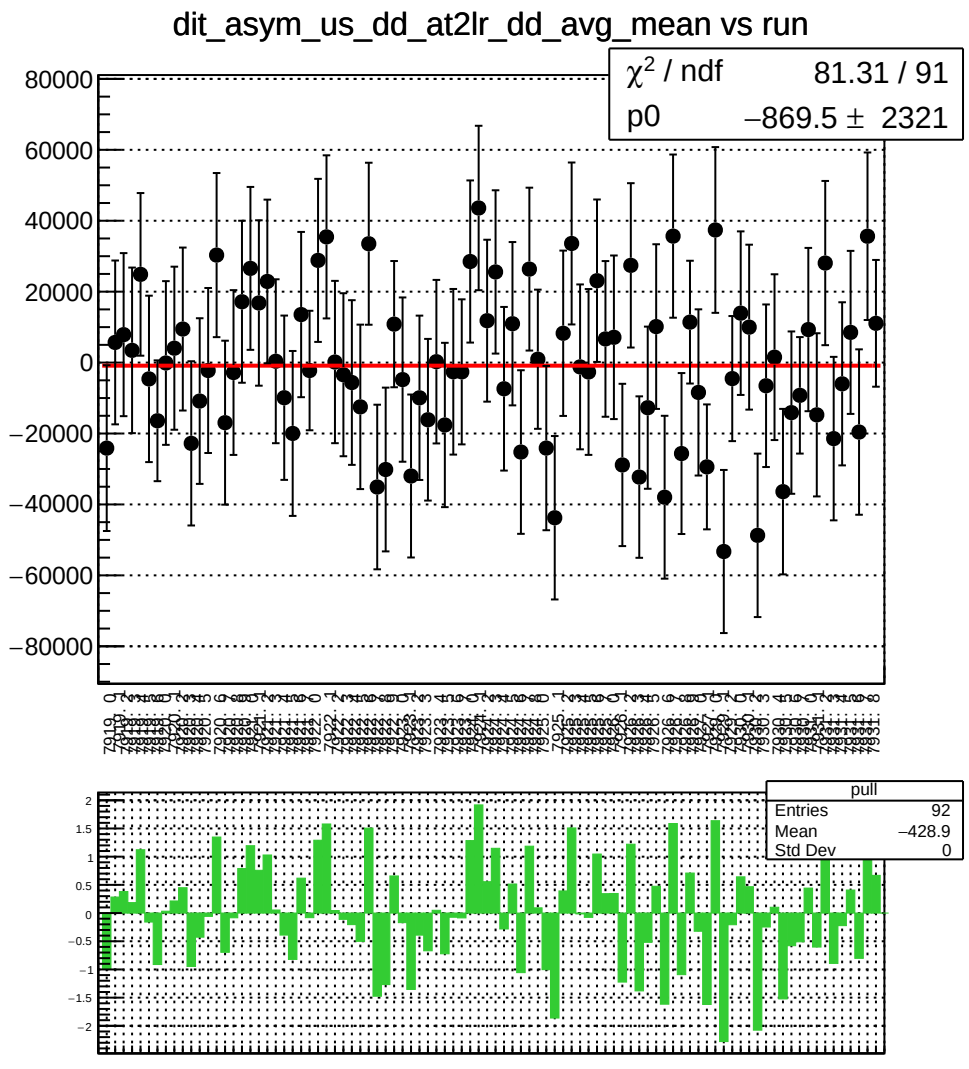

eigen_cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 83.39 / 91
p0 −930.4 ± 2316
pull
Entries 92
Mean −375.5
Std Dev 0
pull1D
Entries 92
Mean 0.006623
Std Dev 0.952

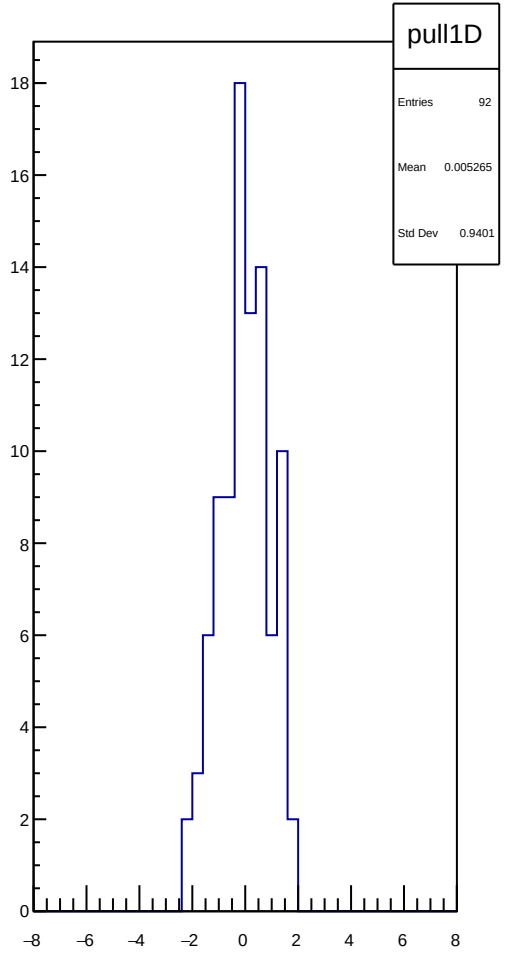

eigen_cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 104.3 / 91
p0 2186 ± 1.638
2260
2240
2220
2200
2180
2160
2140
2120

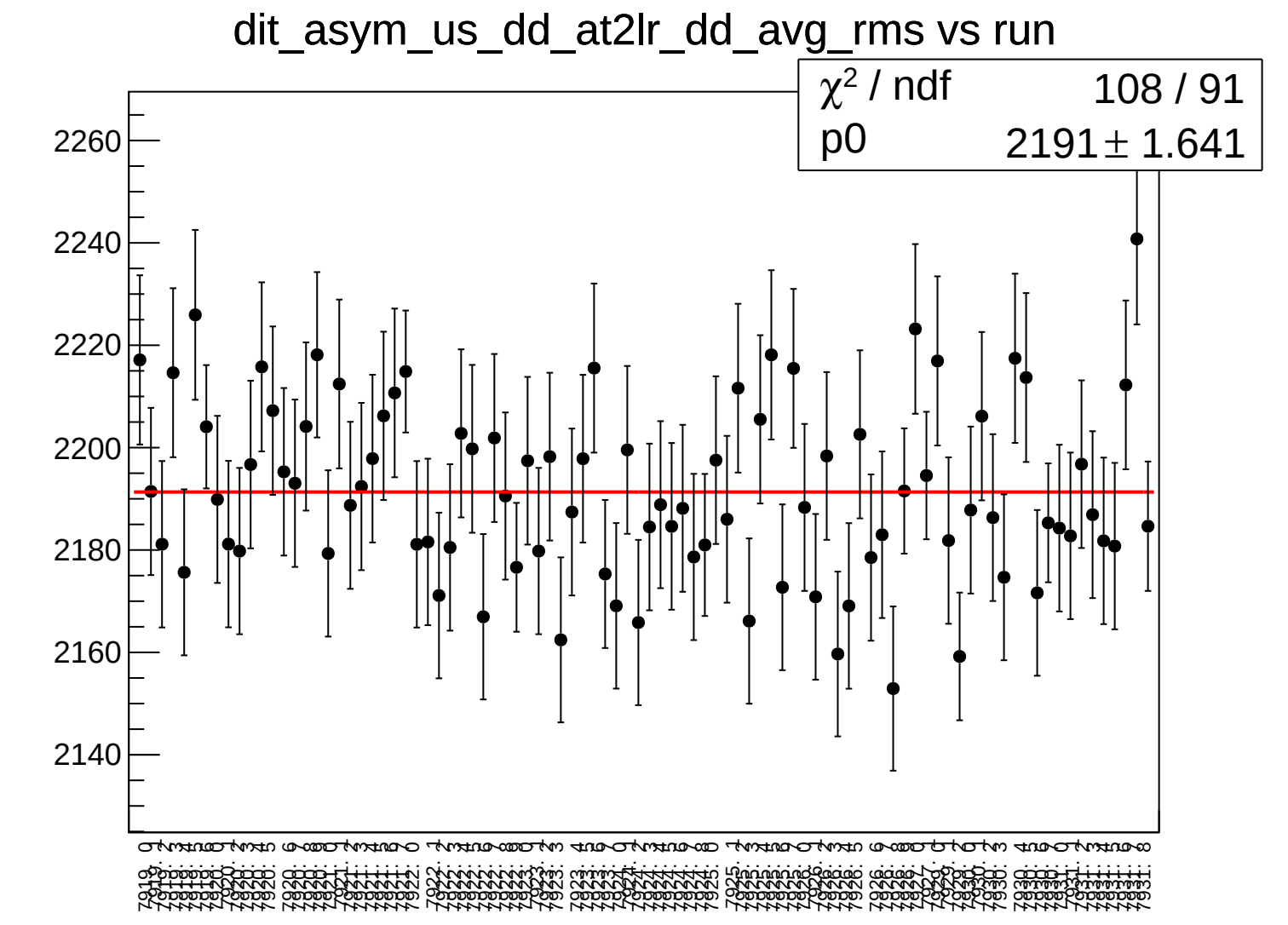

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 102.8 / 91
p0 −8565 ± 4816
pull
Entries 92
Mean 1576
Std Dev 0

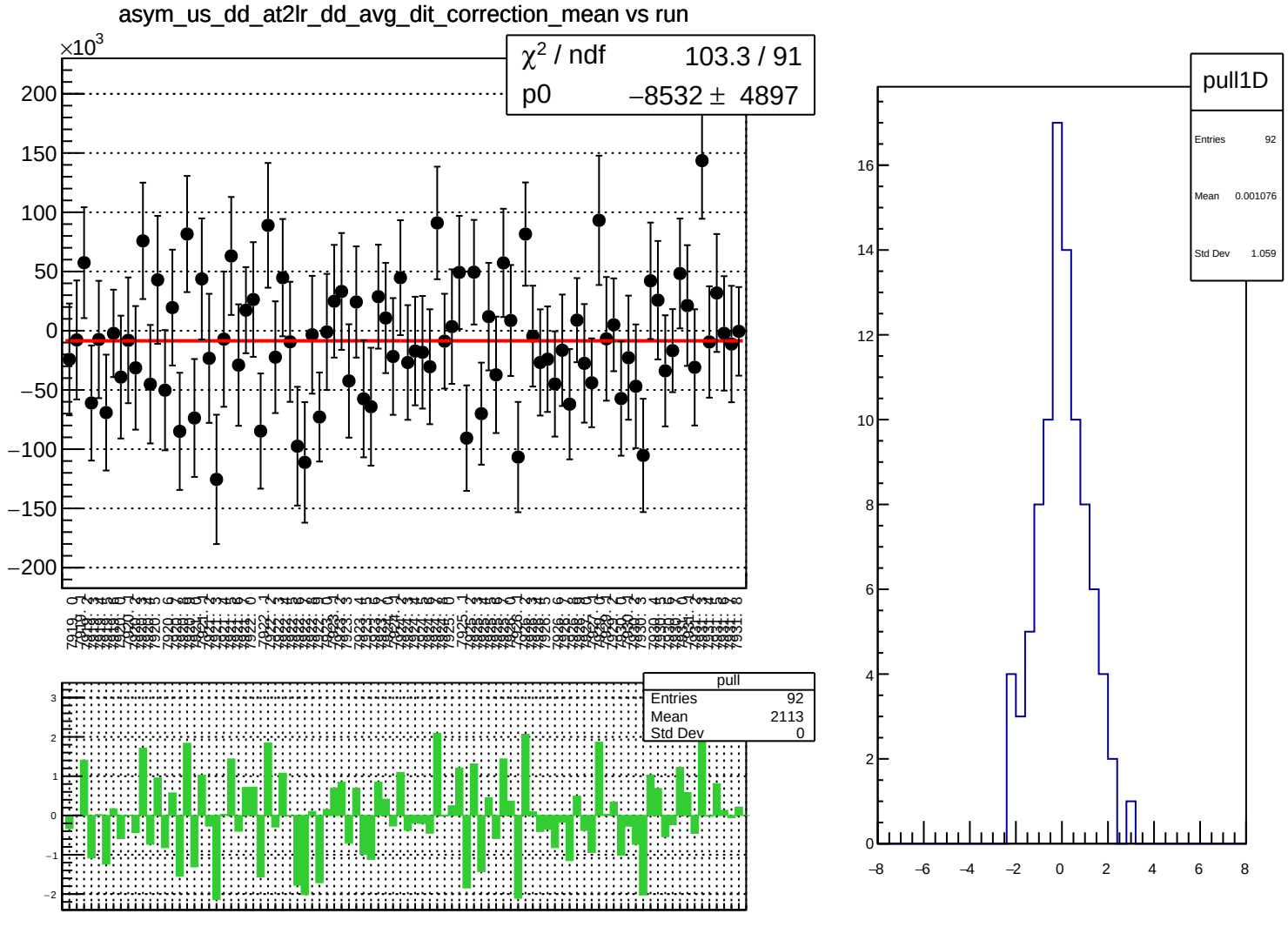

pull1D
Entries 92
Mean 0.001406
Std Dev 1.057

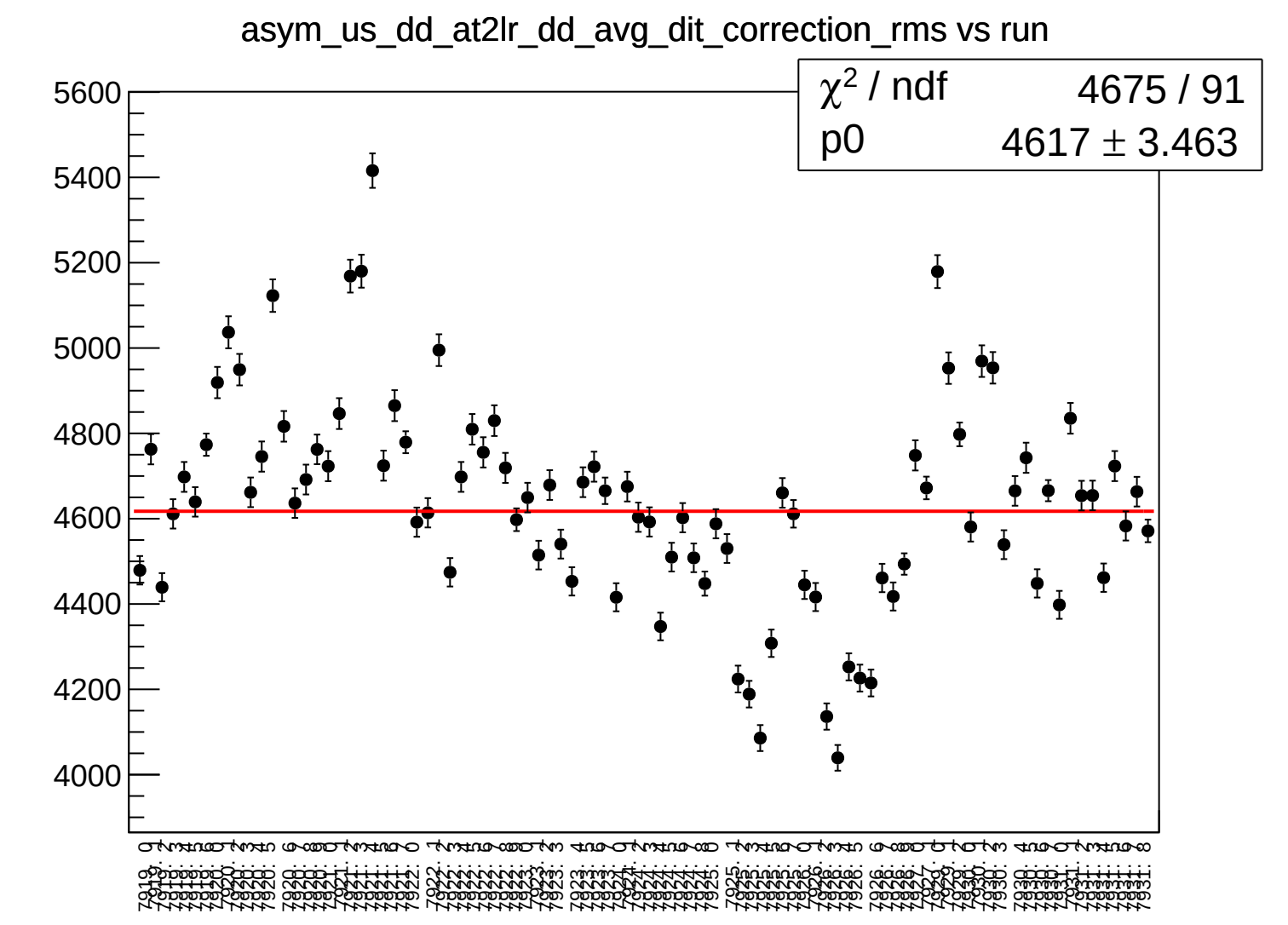

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 4277 / 91
p0 4541 ± 3.405
5400
5200
5000
4800
4600
4400
4200
4000

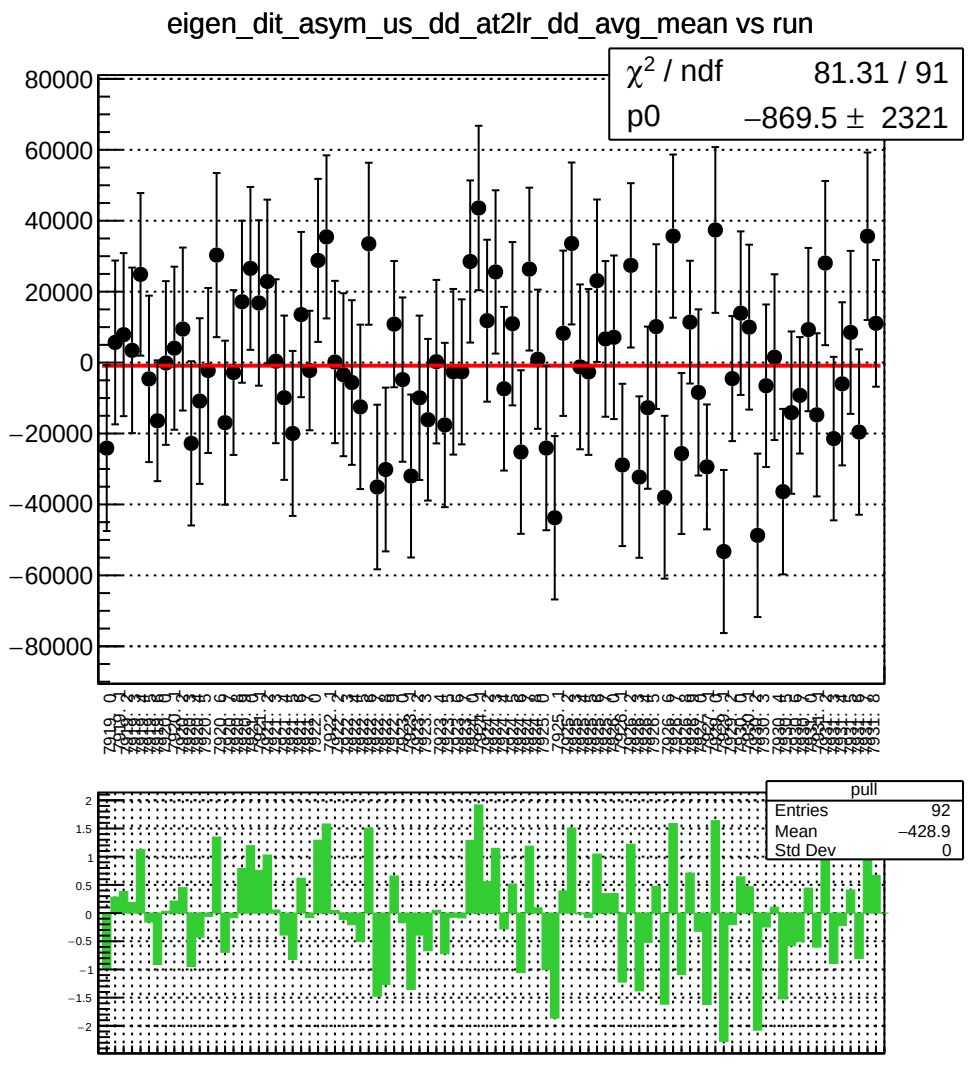

dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ^2 / ndf 81.31 / 91
p0 −869.5 ± 2321
pull
Entries 92
Mean −428.9
Std Dev 0

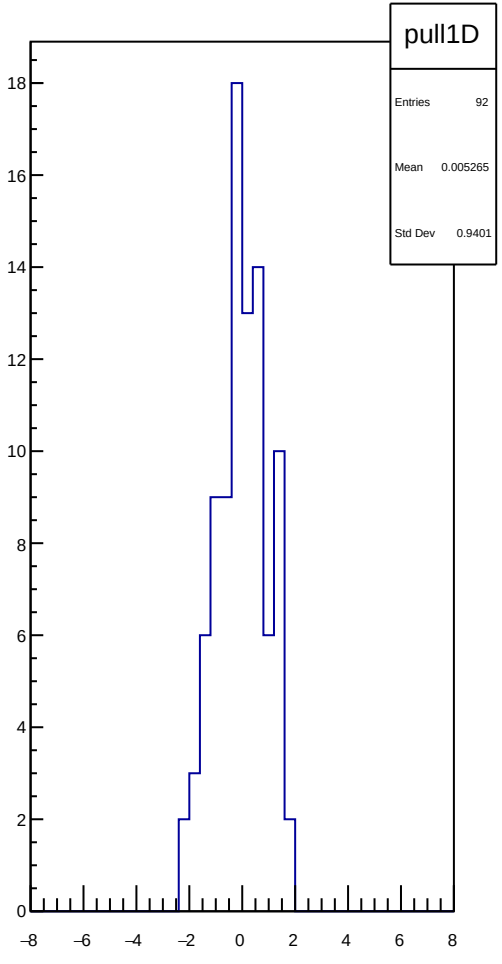

pull1D
Entries 92
Mean 0.005265
Std Dev 0.9401

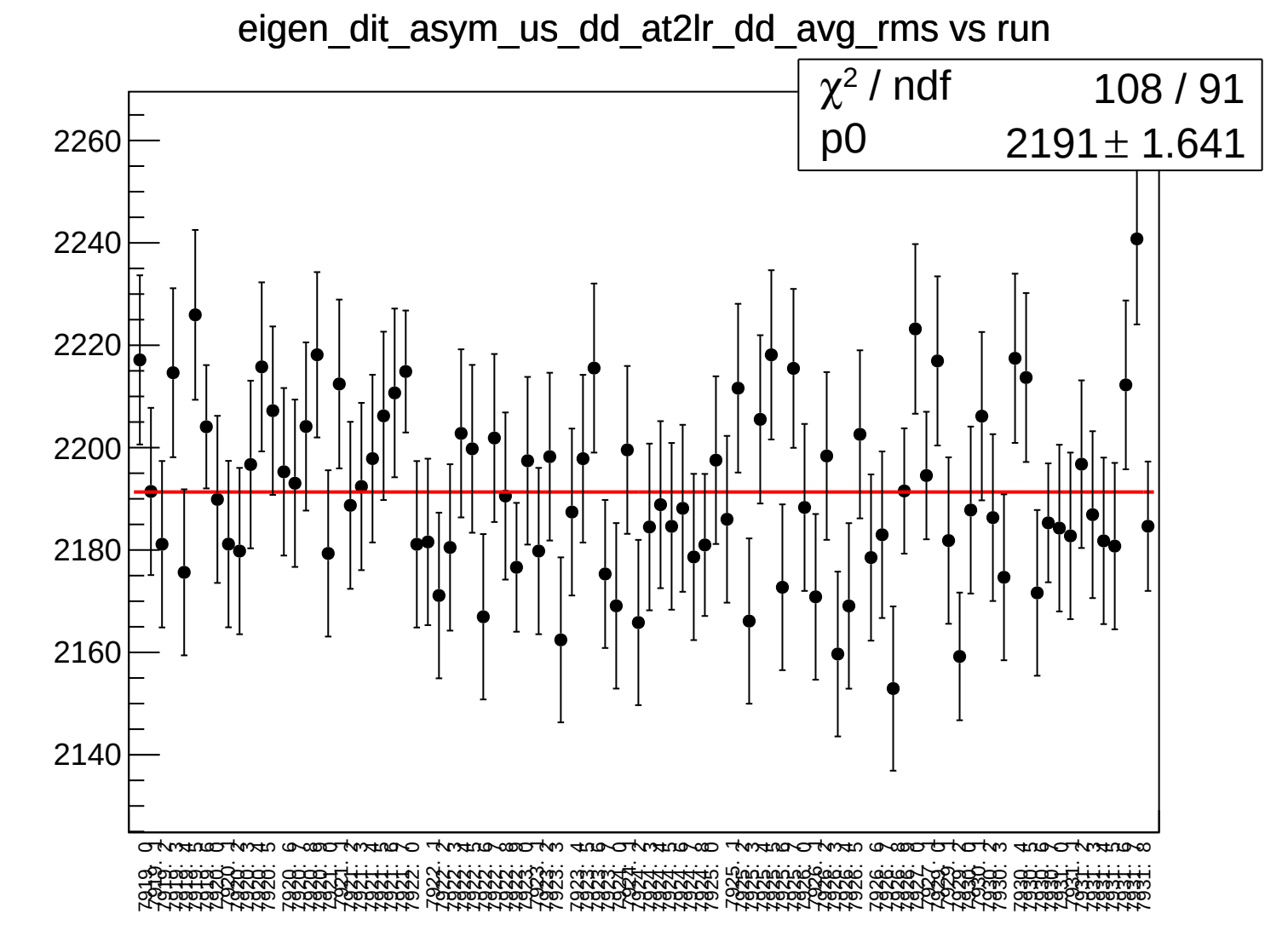

dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 108 / 91
p0 2191 ± 1.641
2260
2240
2220
2200
2180
2160
2140

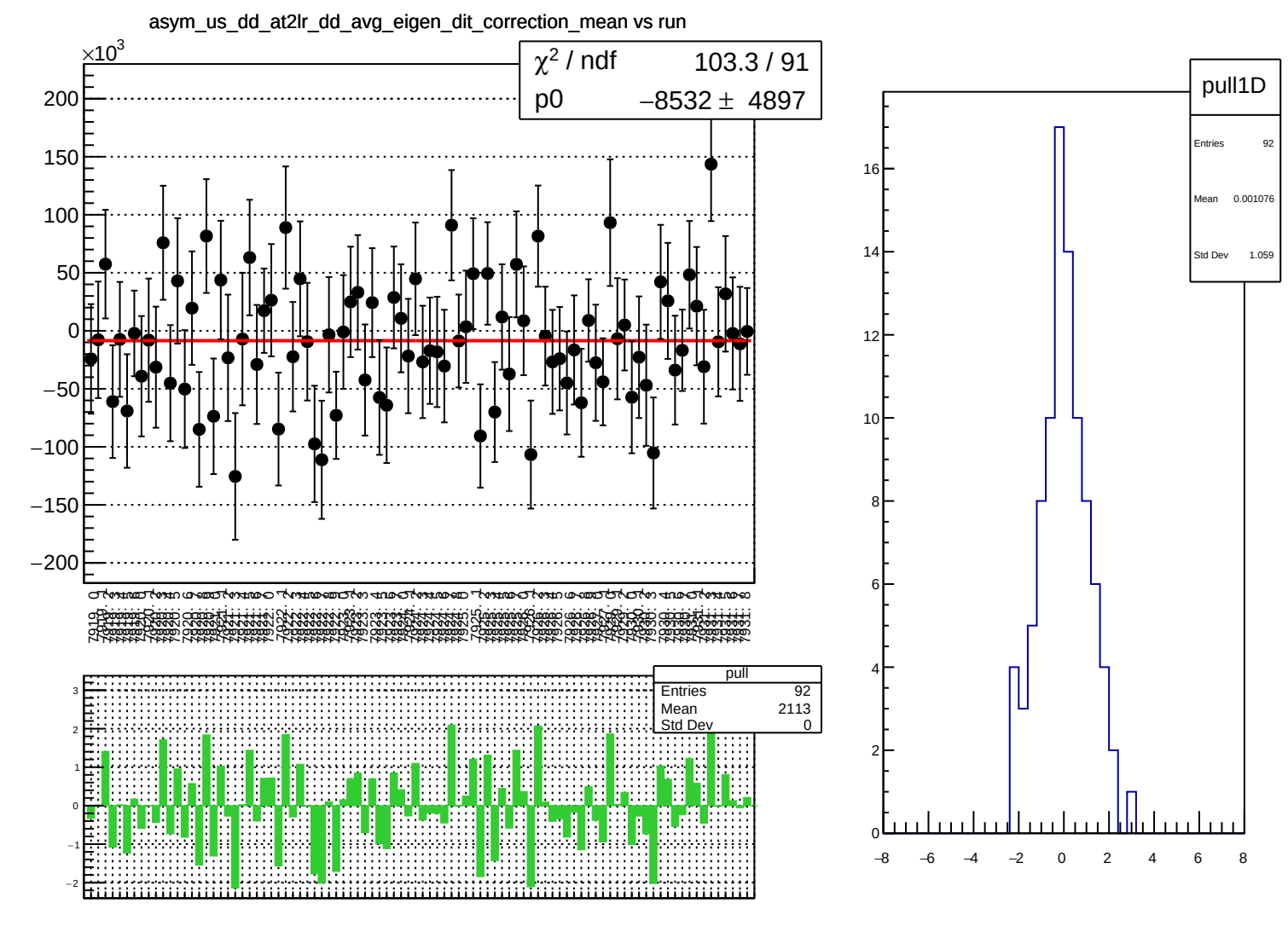

asym_us_dd_at2lr_dd_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 103.3 / 91
p0 −8532 ± 4897
pull
Entries 92
Mean 2113
Std Dev 0
pull1D
Entries 92
Mean 0.001076
Std Dev 1.059

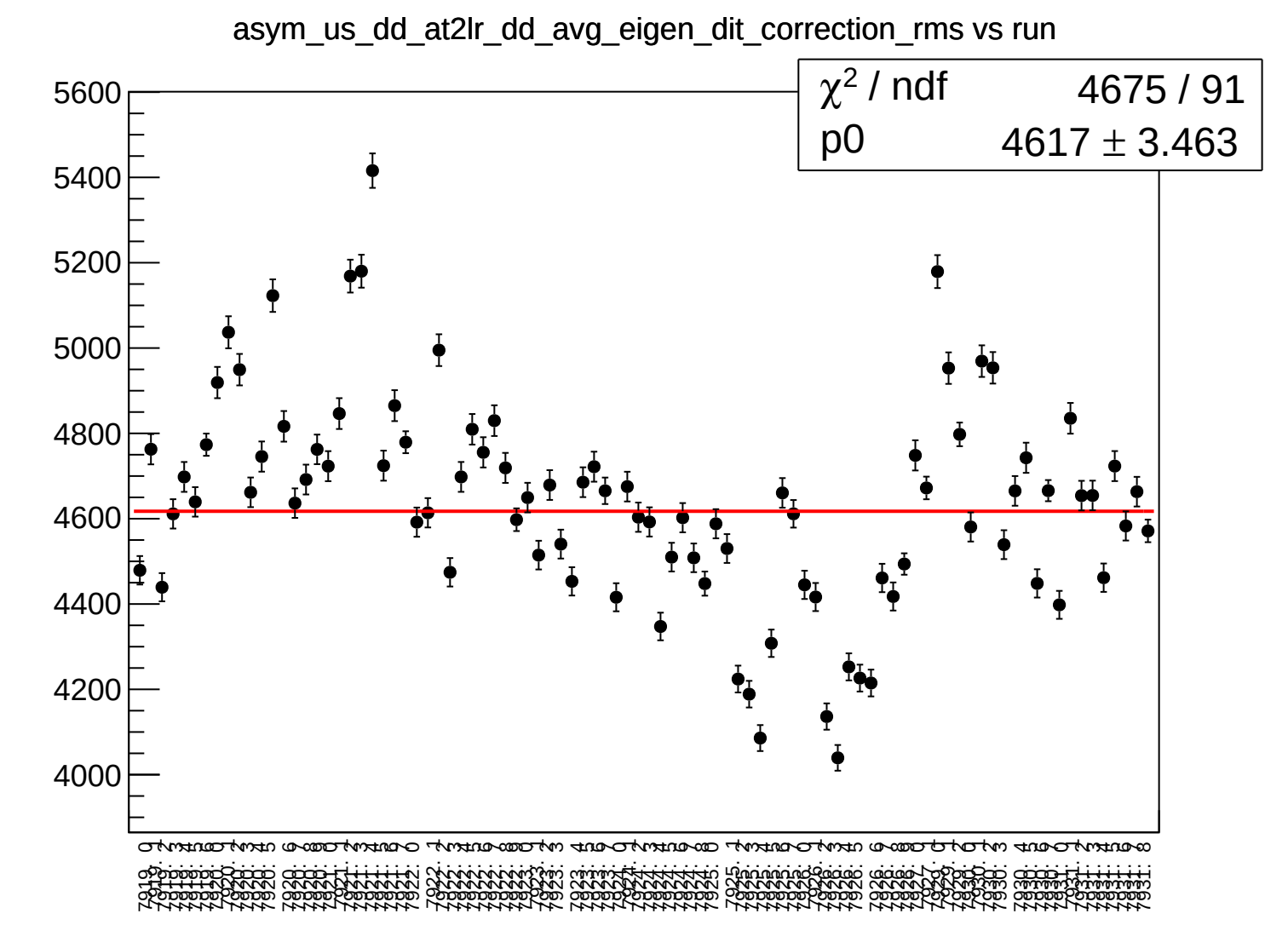

asym_us_dd_at2lr_dd_avg_dit_correction_rms vs run
χ² / ndf 4675 / 91
p0 4617 ± 3.463
5600
5400
5200
5000
4800
4600
4400
4200
4000

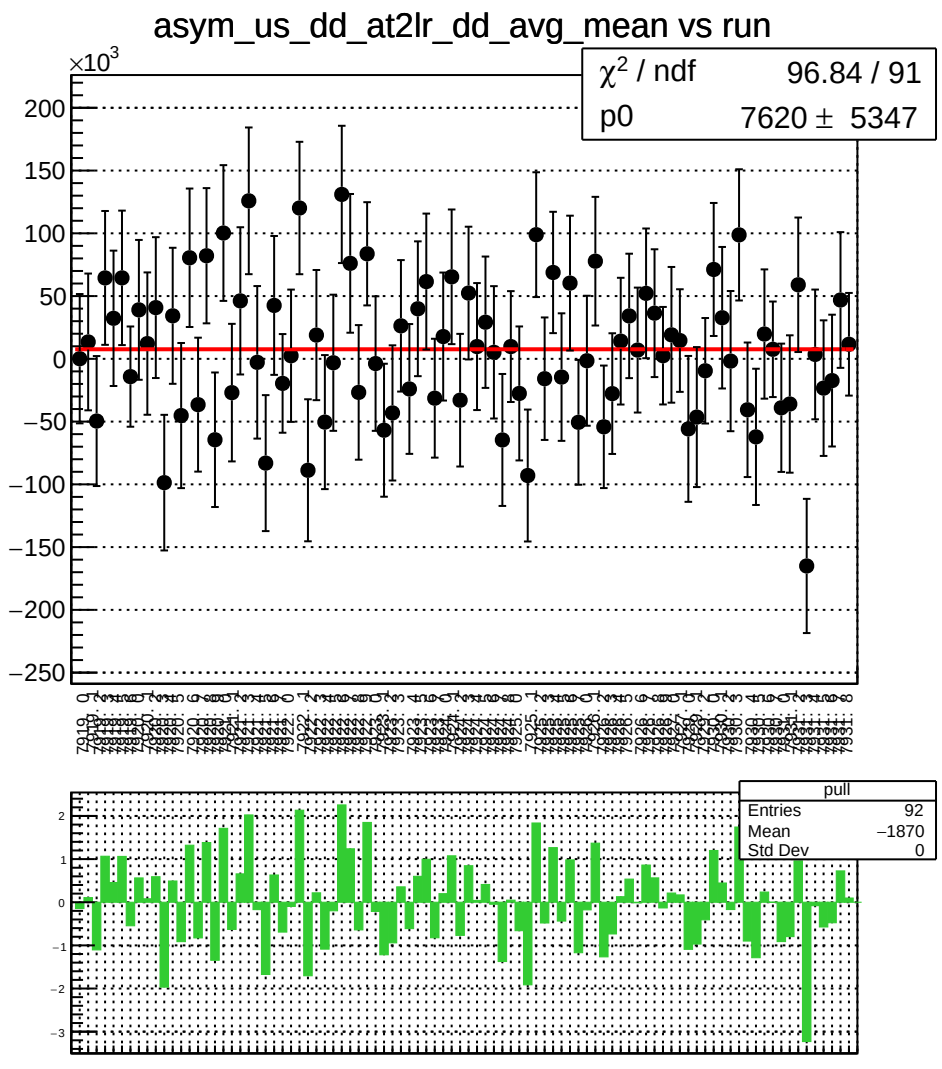

eigen_dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 81.31 / 91
p0 −869.5 ± 2321
pull
Entries 92
Mean −428.9
Std Dev 0

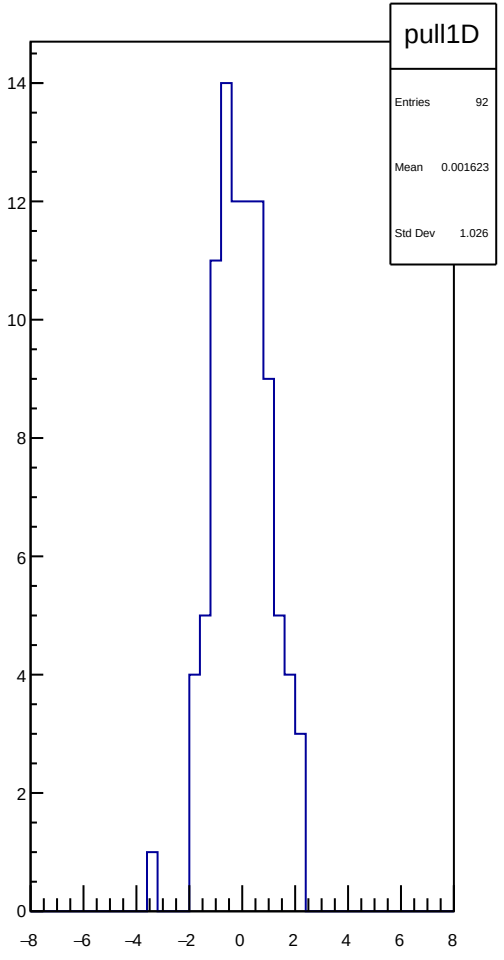

pull1D
Entries 92
Mean 0.005265
Std Dev 0.9401

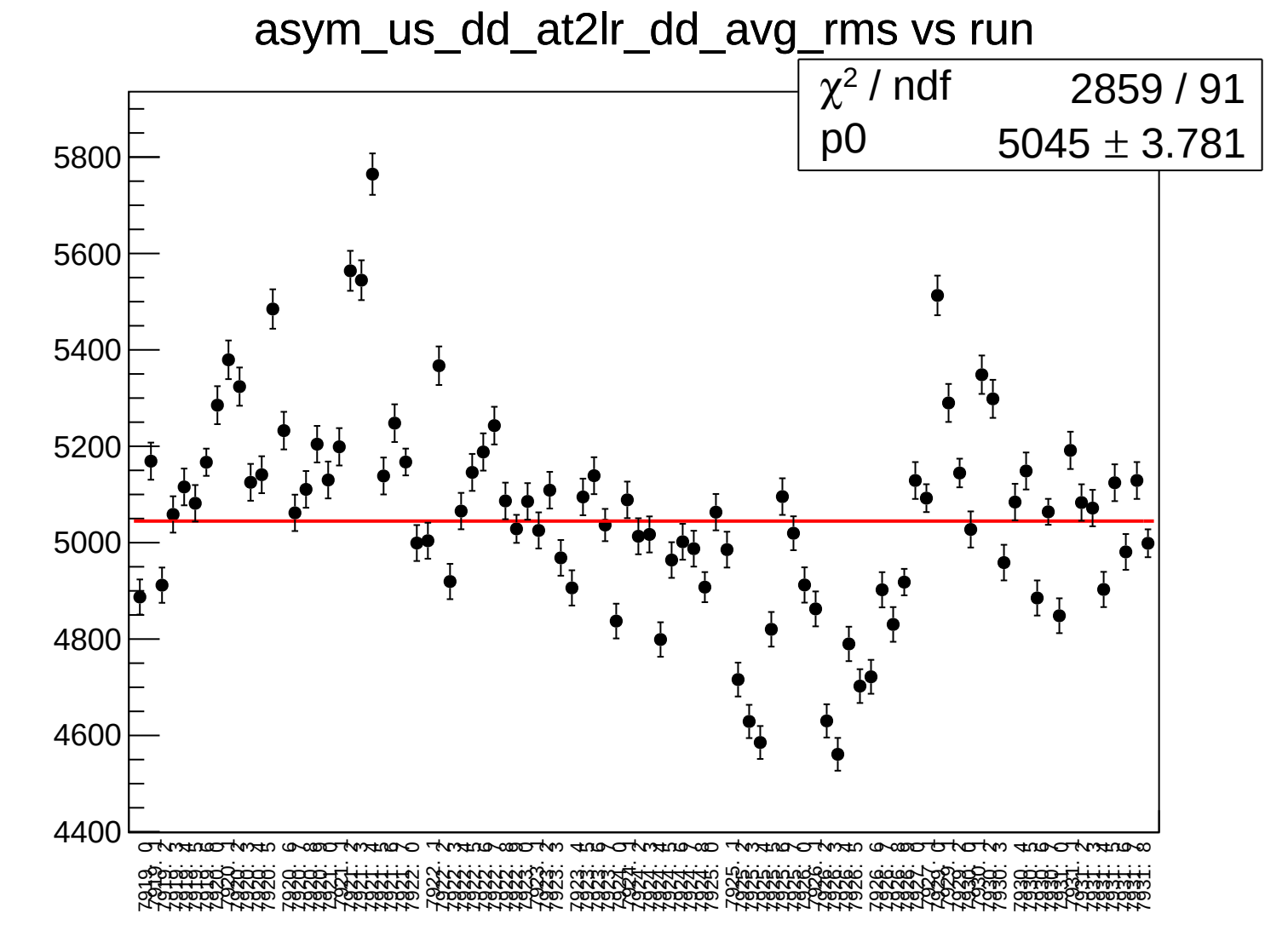

eigen_dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 108 / 91
p0 2191 ± 1.641
2260
2240
2220
2200
2180
2160
2140

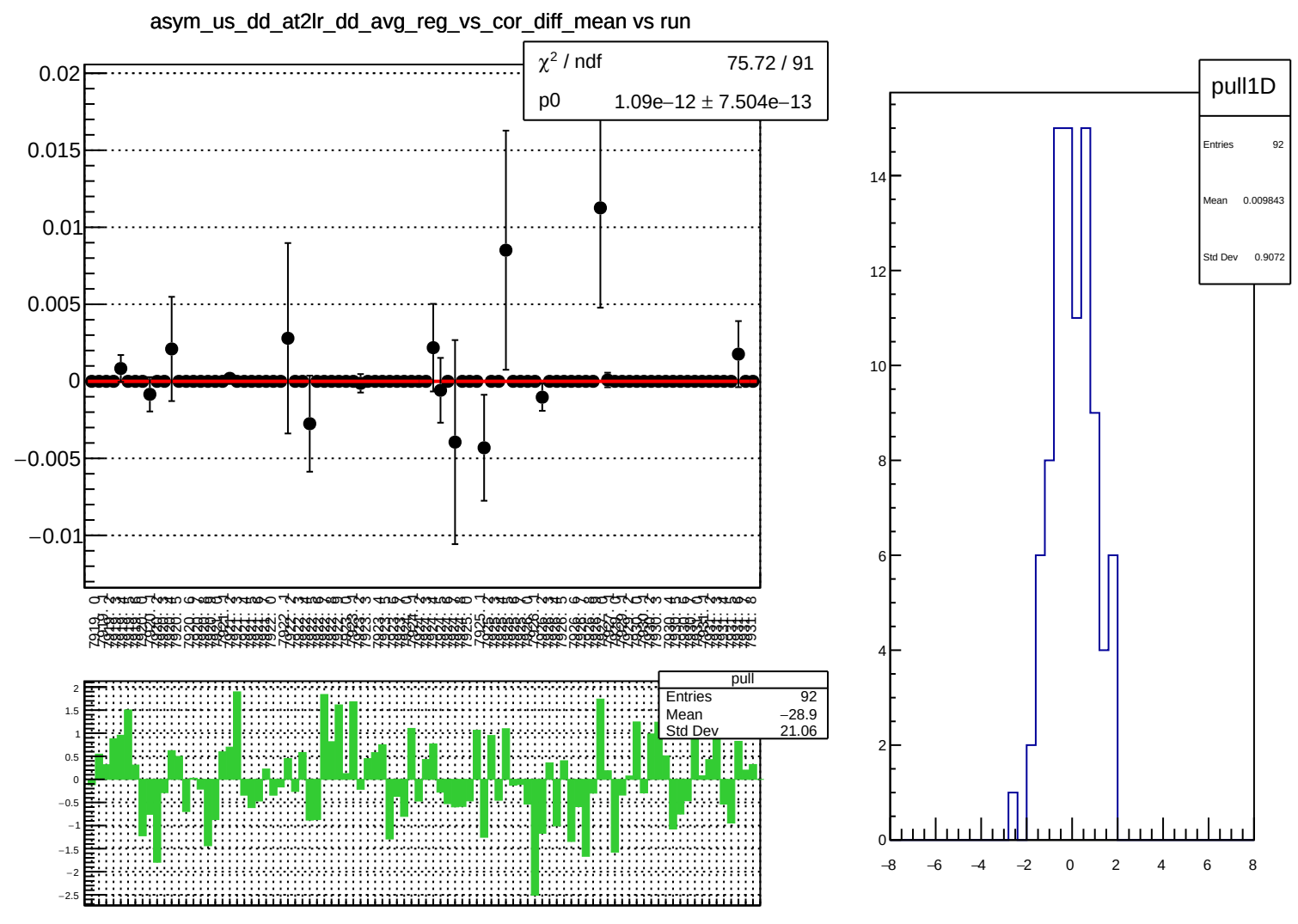

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 103.3 / 91
p0 −8532 ± 4897
pull
Entries 92
Mean 2113
Std Dev 0
pull1D
Entries 92
Mean 0.001076
Std Dev 1.059

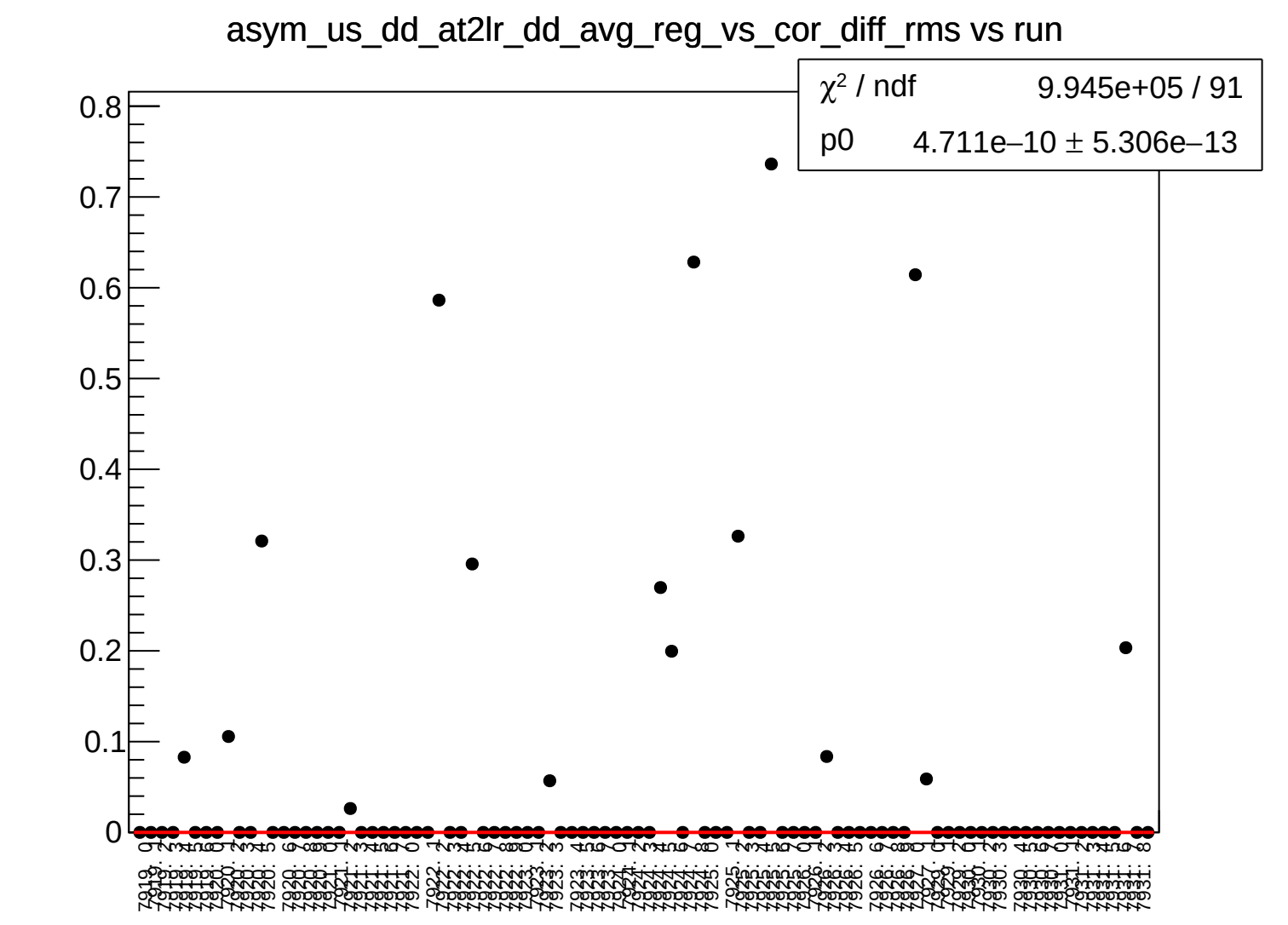

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 4675 / 91
p0 4617 ± 3.463
5600
5400
5200
5000
4800
4600
4400
4200
4000

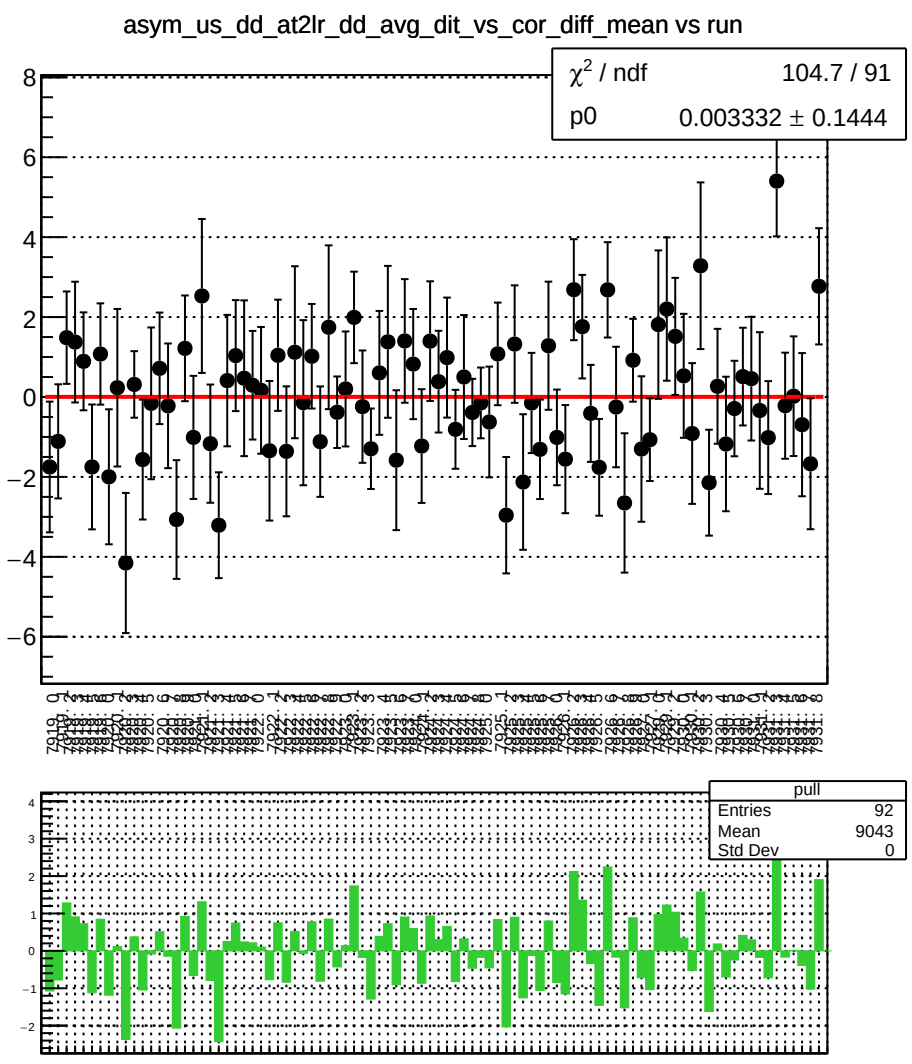

asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ^2 / ndf 96.84 / 91
p0 7620 ± 5347
pull
Entries 92
Mean −1870
Std Dev 0

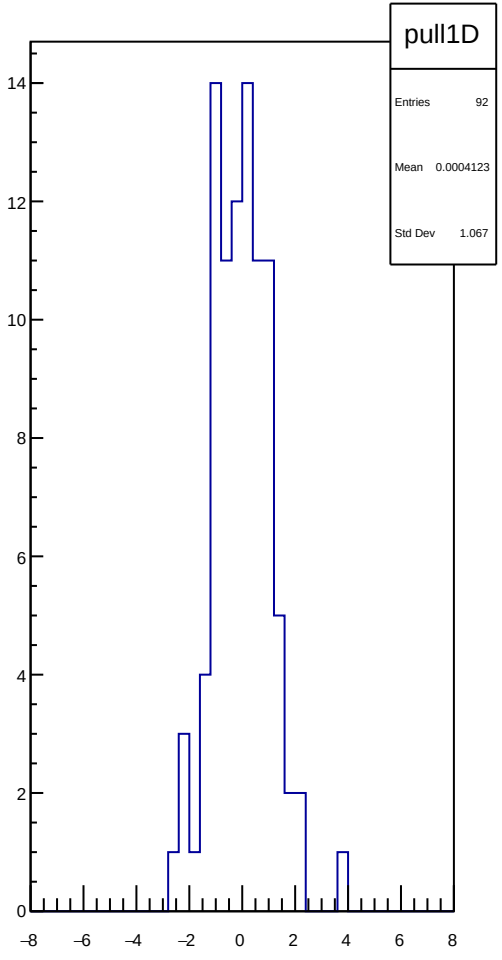

pull1D
Entries 92
Mean 0.001623
Std Dev 1.026

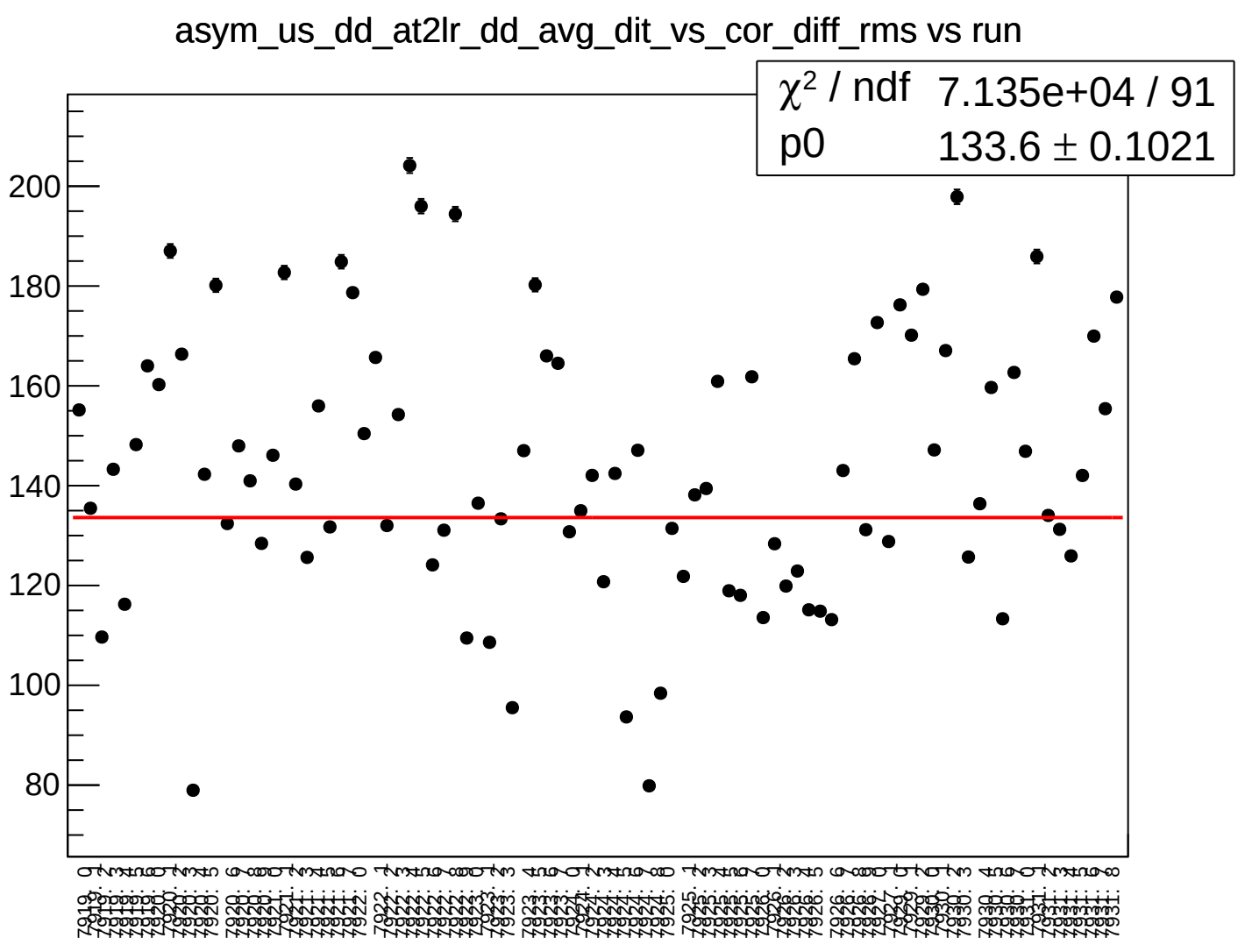

asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 2859 / 91
p0 5045 ± 3.781
5800
5600
5400
5200
5000
4800
4600
4400

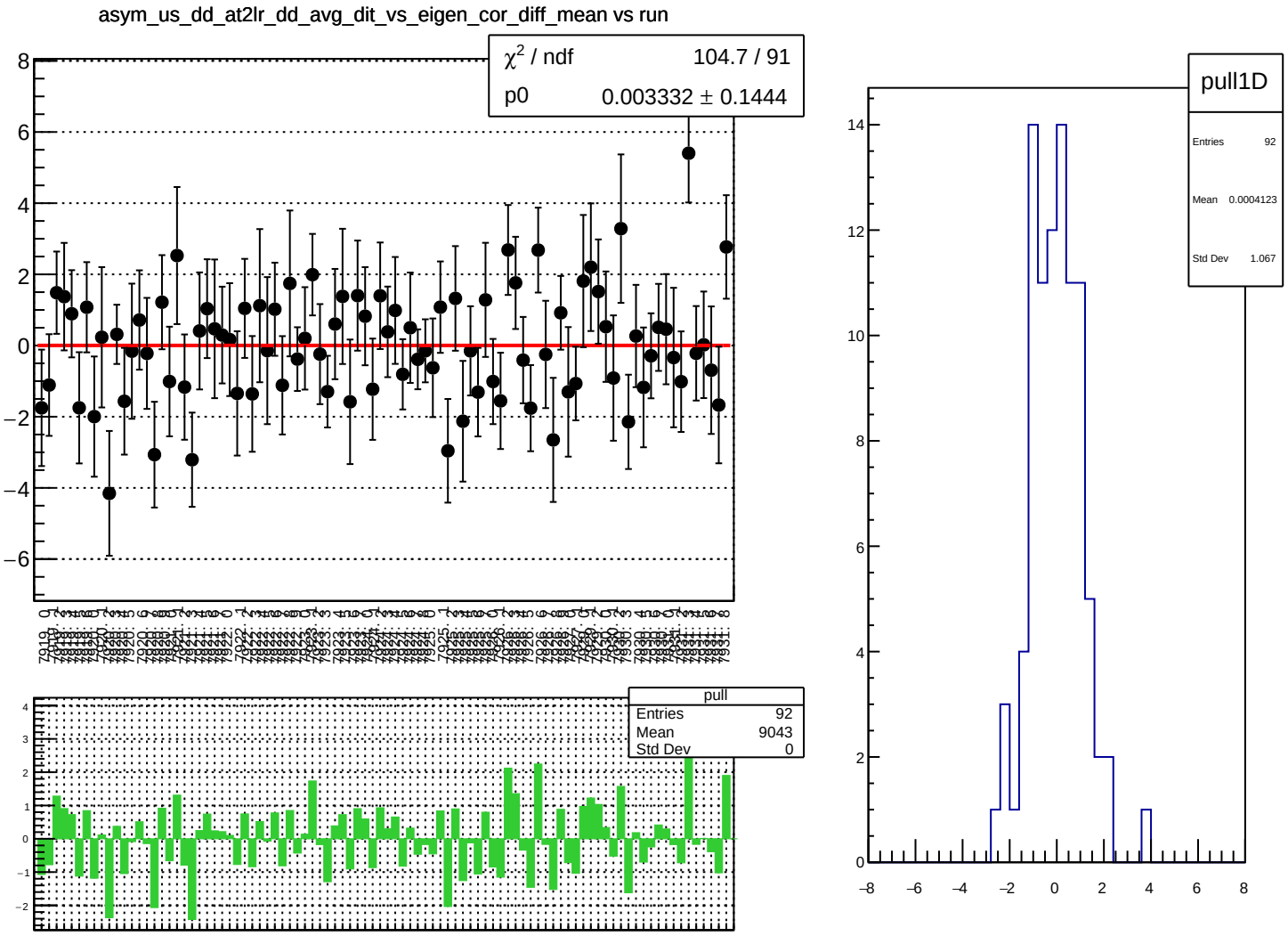

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 75.72 / 91
p0 1.09e−12 ± 7.504e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 92
Mean −28.9
Std Dev 21.06
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 92
Mean 0.009843
Std Dev 0.9072
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

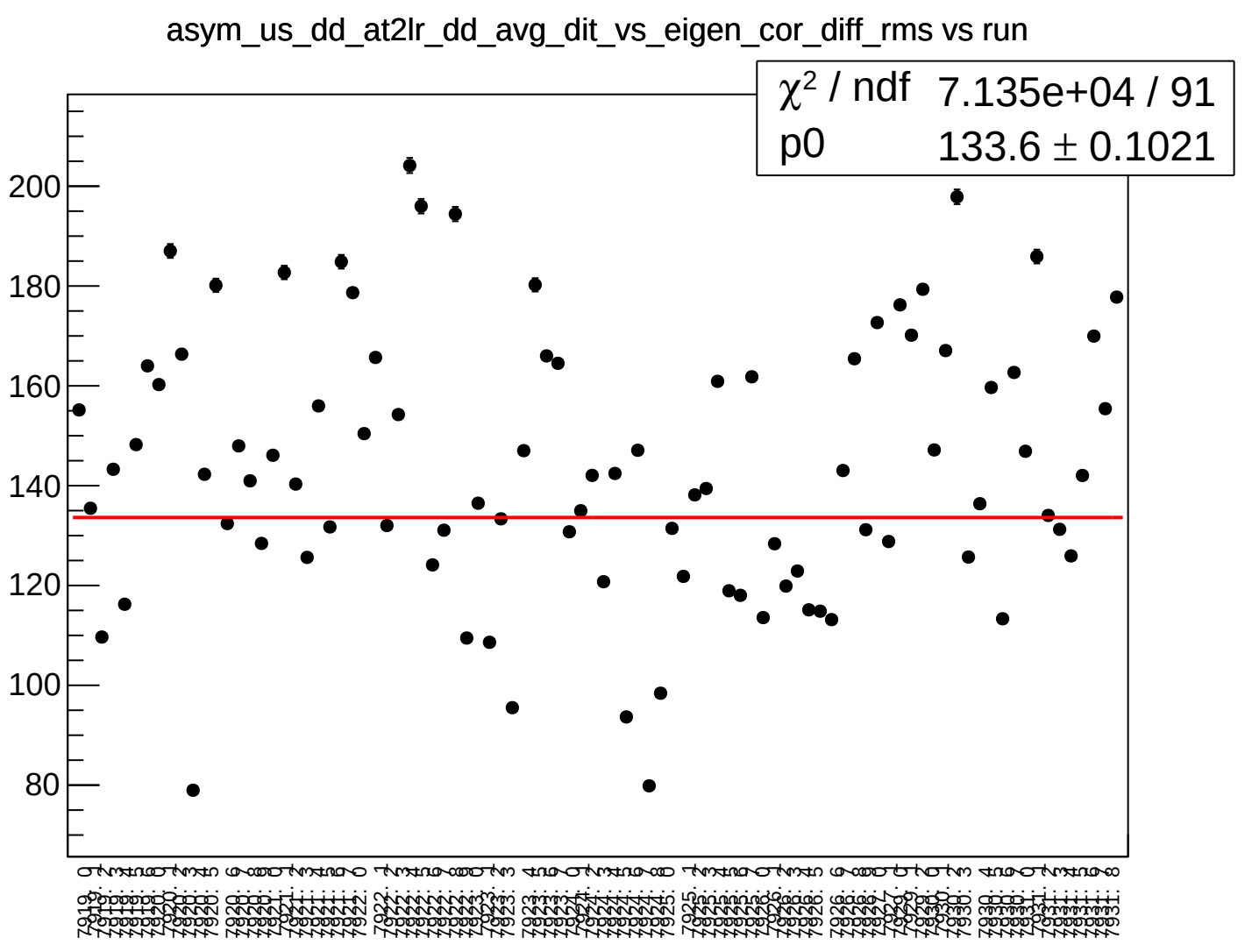

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.945e+05 / 91
p0 4.711e−10 ± 5.306e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

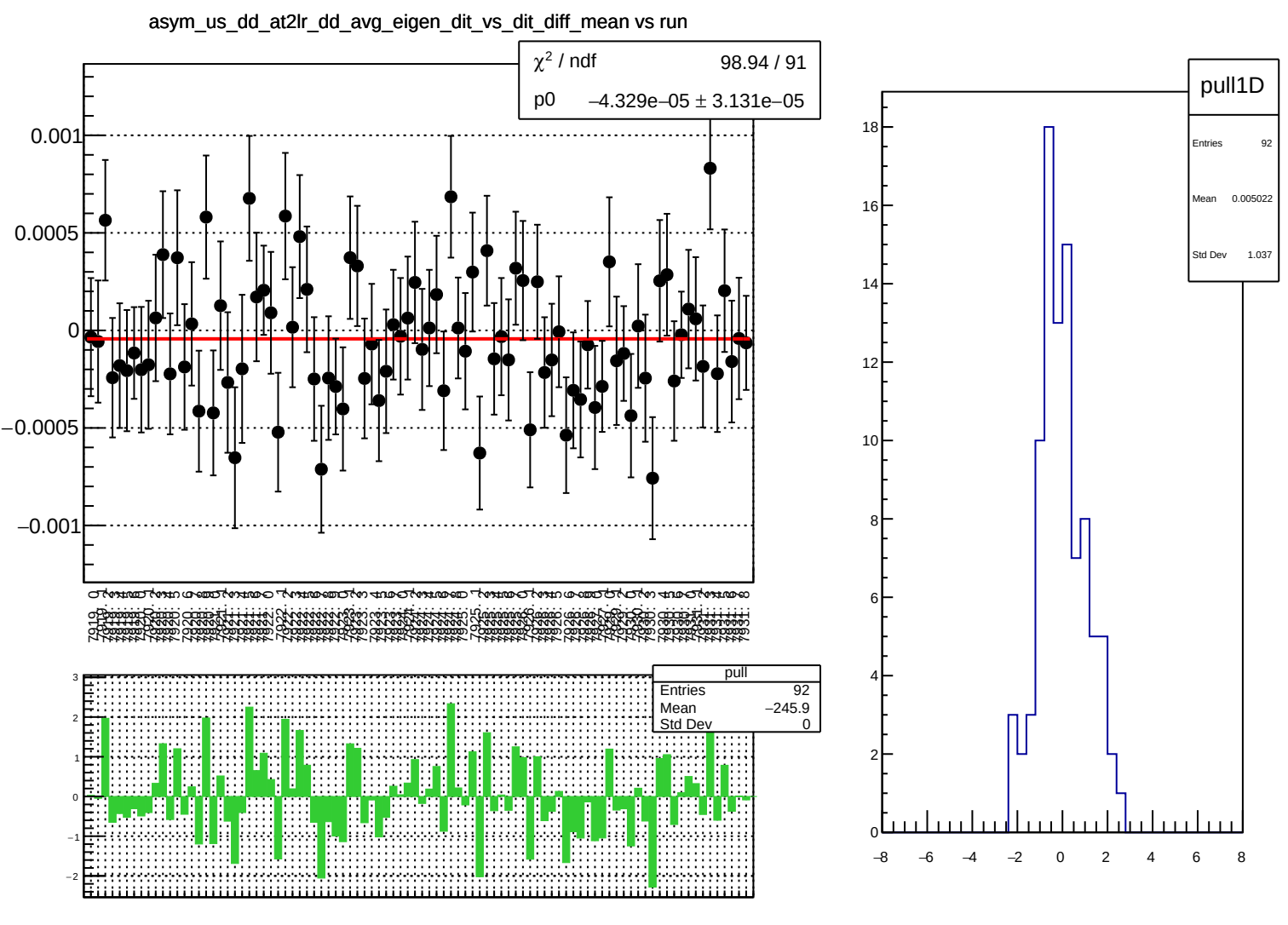

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 104.7 / 91
p0 0.003332 ± 0.1444
pull
Entries 92
Mean 9043
Std Dev 0

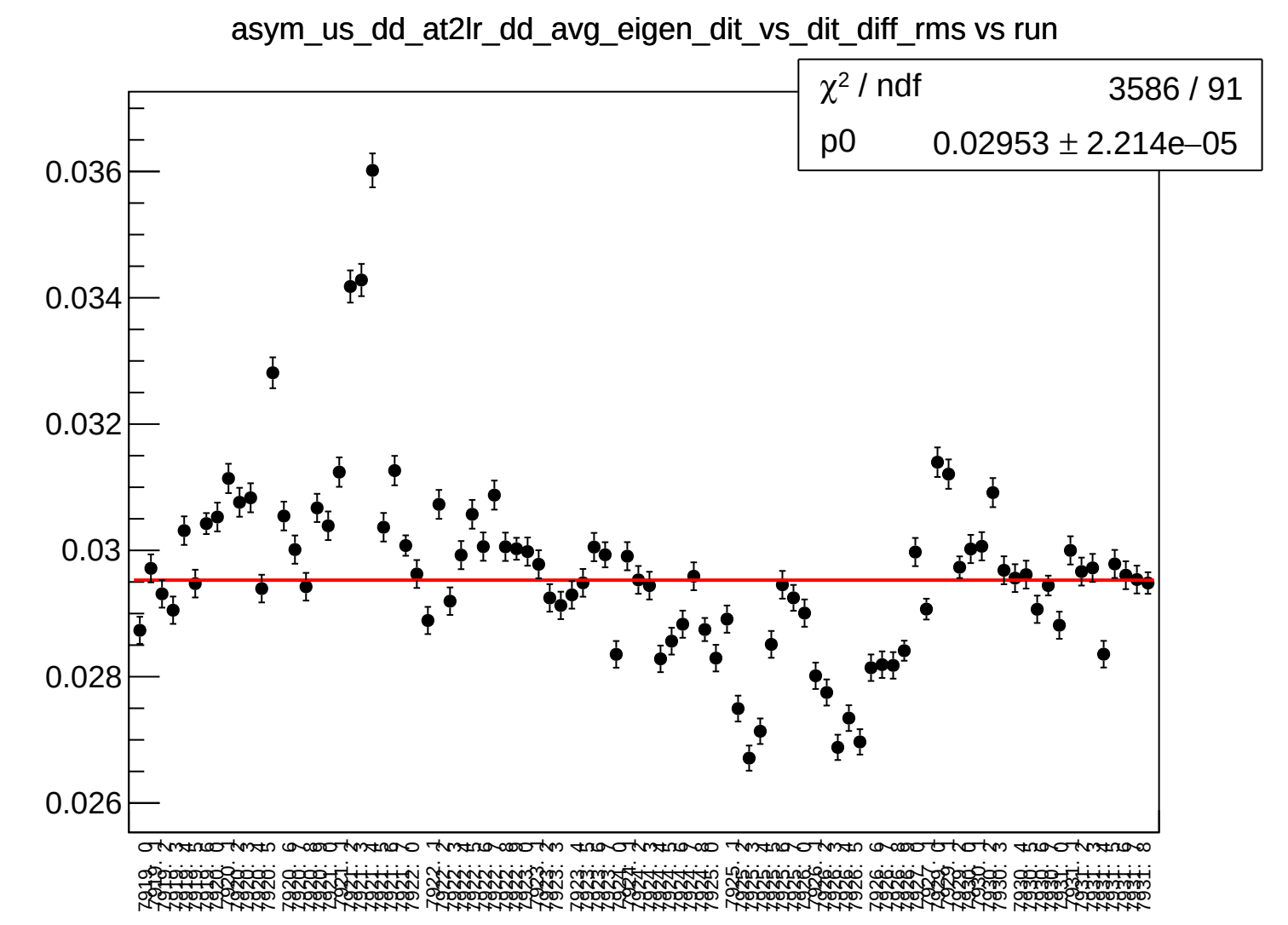

pull1D
Entries 92
Mean 0.0004123
Std Dev 1.067

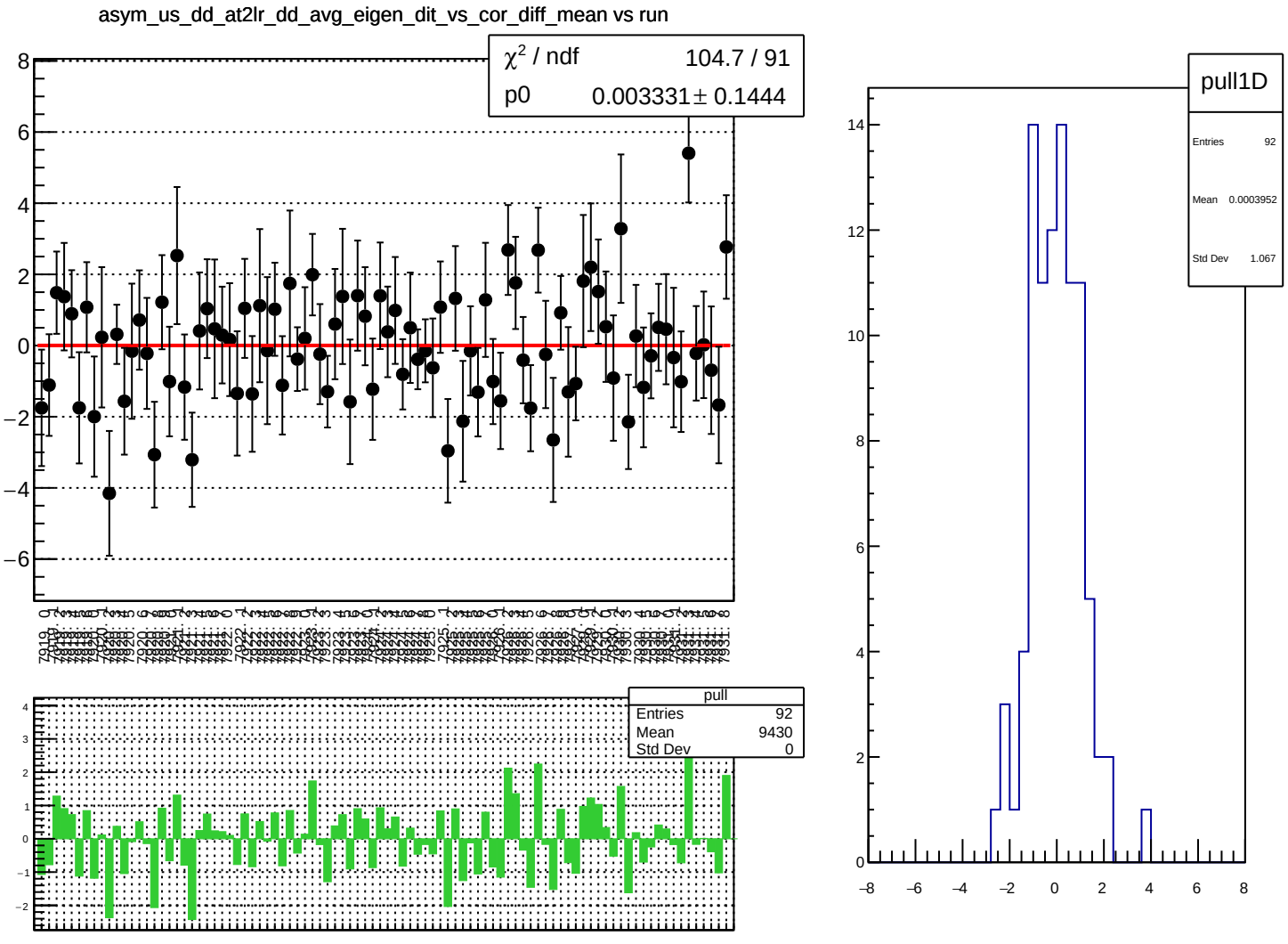

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.135e+04 / 91
p0 133.6 ± 0.1021
200
180
160
140
120
100
80

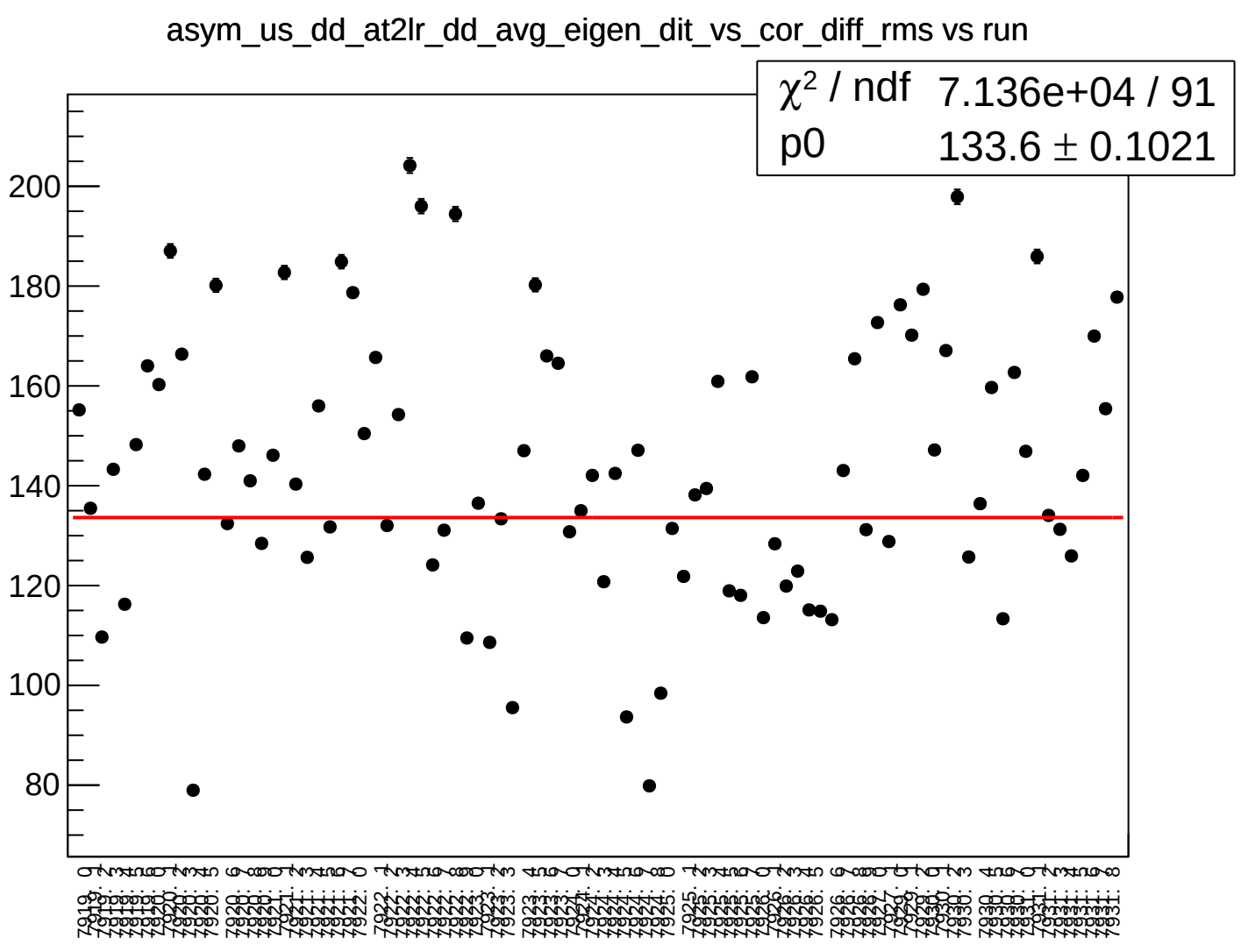

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.7 / 91
p0 0.003332 ± 0.1444
pull
Entries 92
Mean 9043
Std Dev 0
pull1D
Entries 92
Mean 0.0004123
Std Dev 1.067

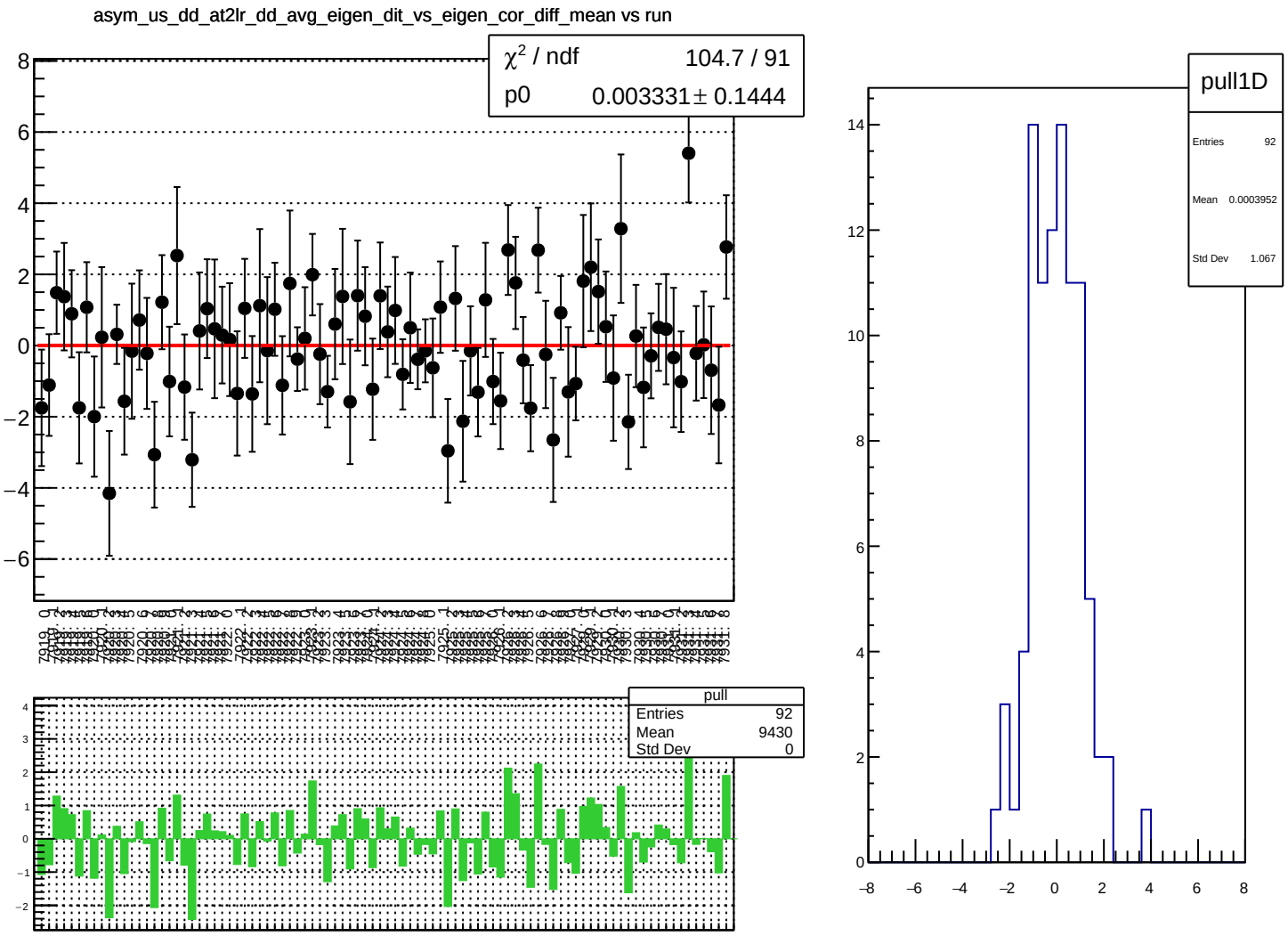

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.135e+04 / 91
p0 133.6 ± 0.1021
200
180
160
140
120
100
80

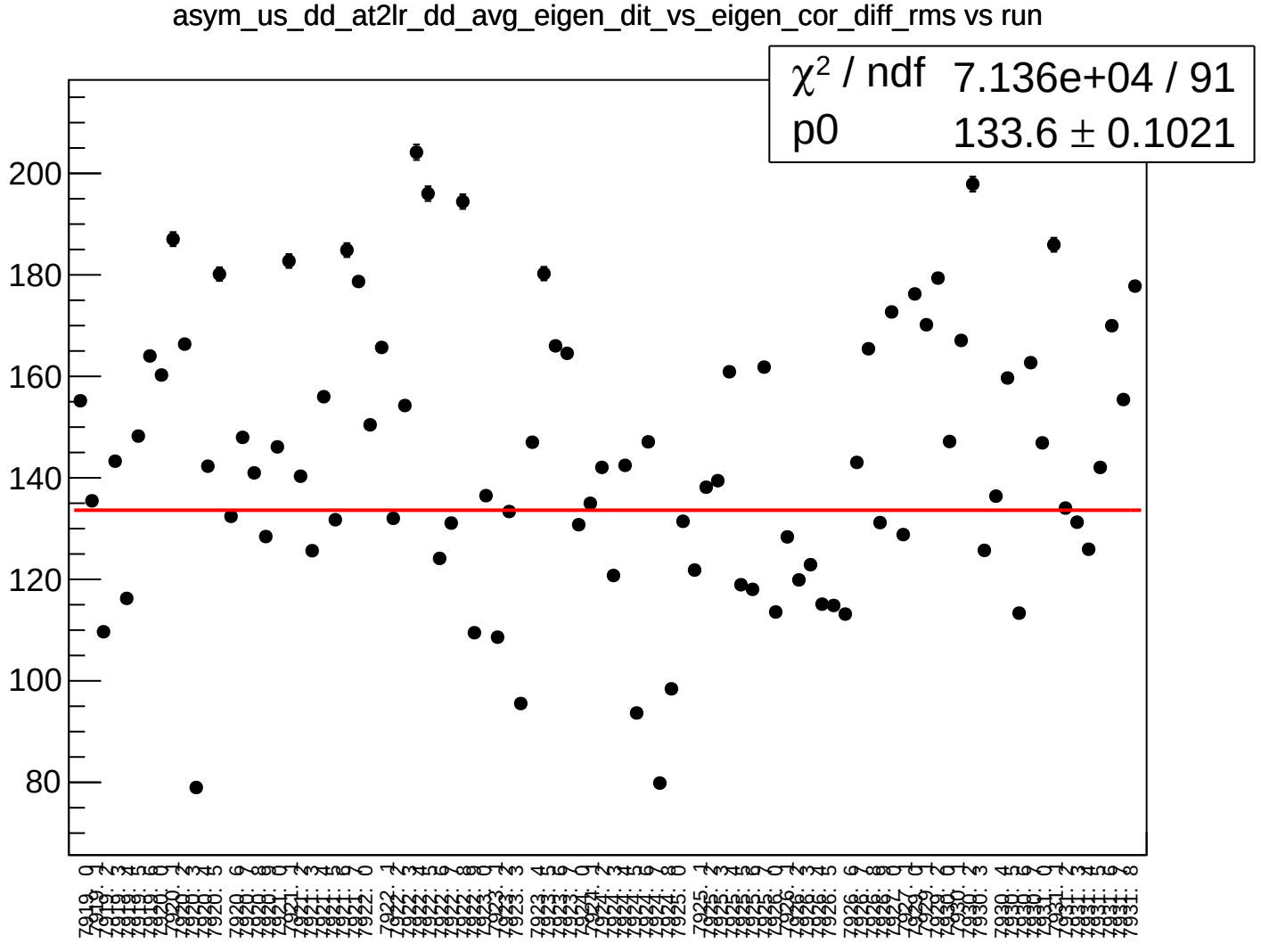

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 98.94 / 91
p0 −4.329e−05 ± 3.131e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 92
Mean −245.9
Std Dev 0
pull1D
Entries 92
Mean 0.005022
Std Dev 1.037

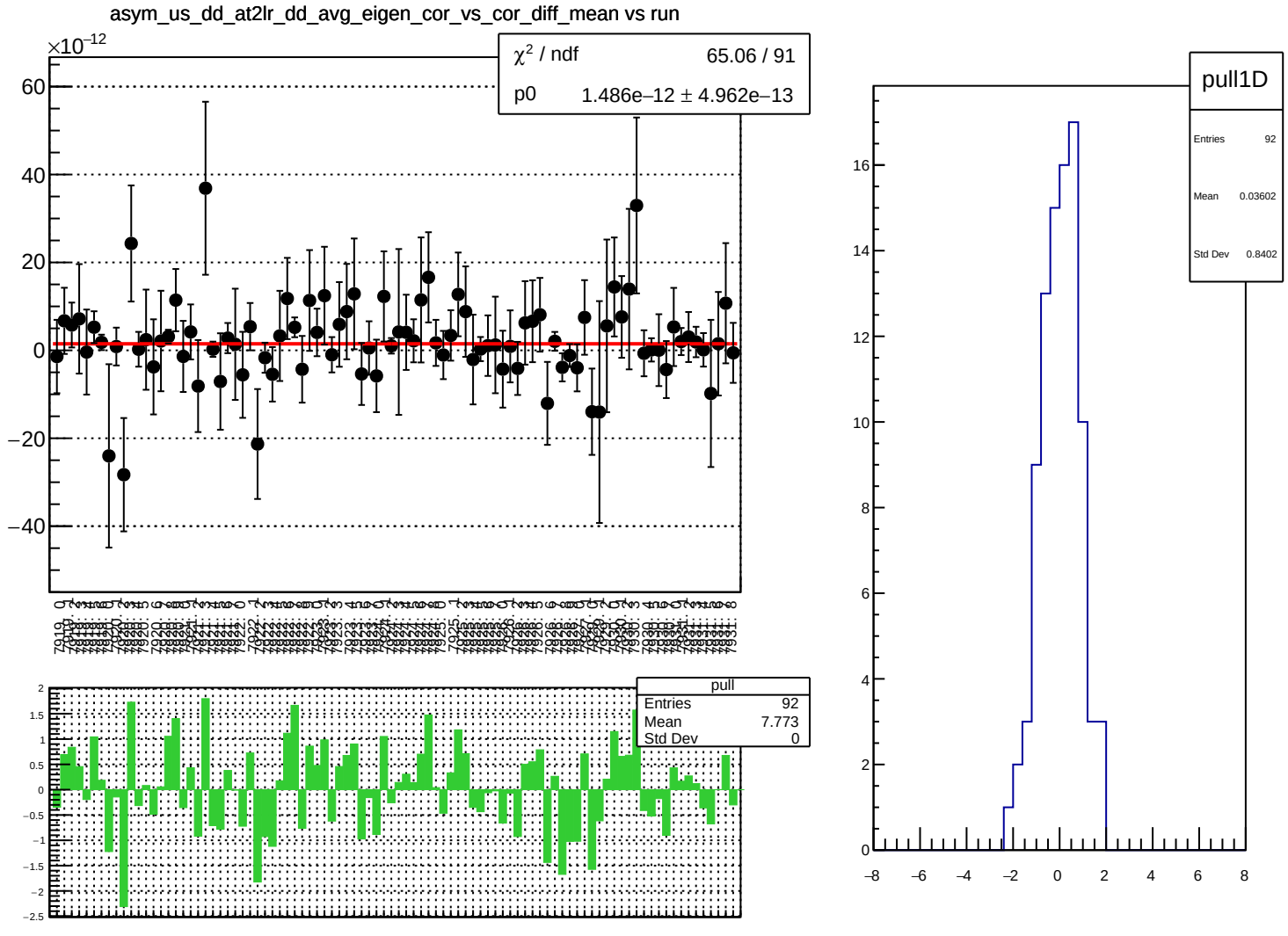

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3586 / 91
p0 0.02953 ± 2.214e−05
0.036
0.034
0.032
0.03
0.028
0.026

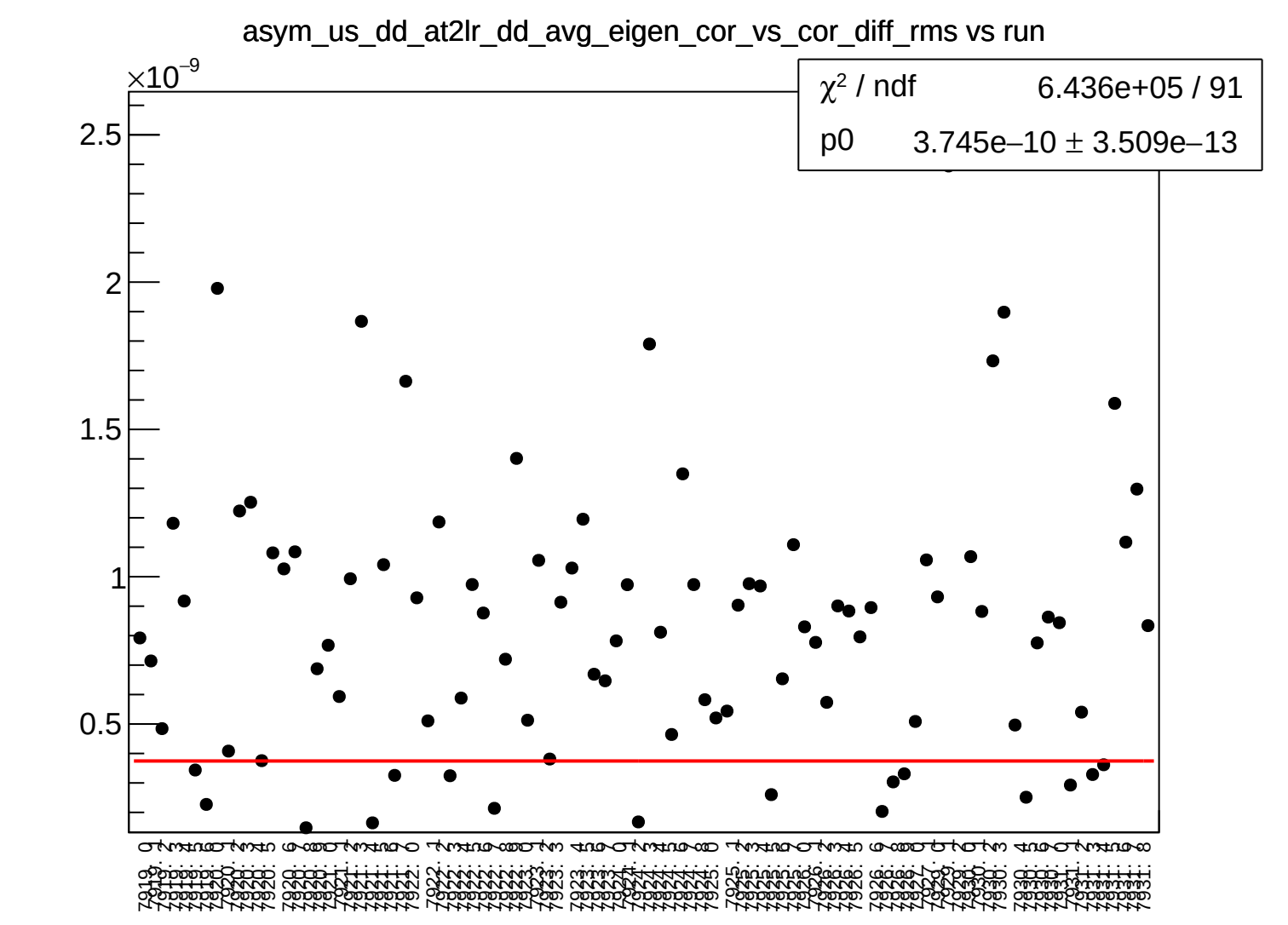

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 104.7 / 91
p0 0.003331 ± 0.1444
pull
Entries 92
Mean 9430
Std Dev 0
pull1D
Entries 92
Mean 0.0003952
Std Dev 1.067

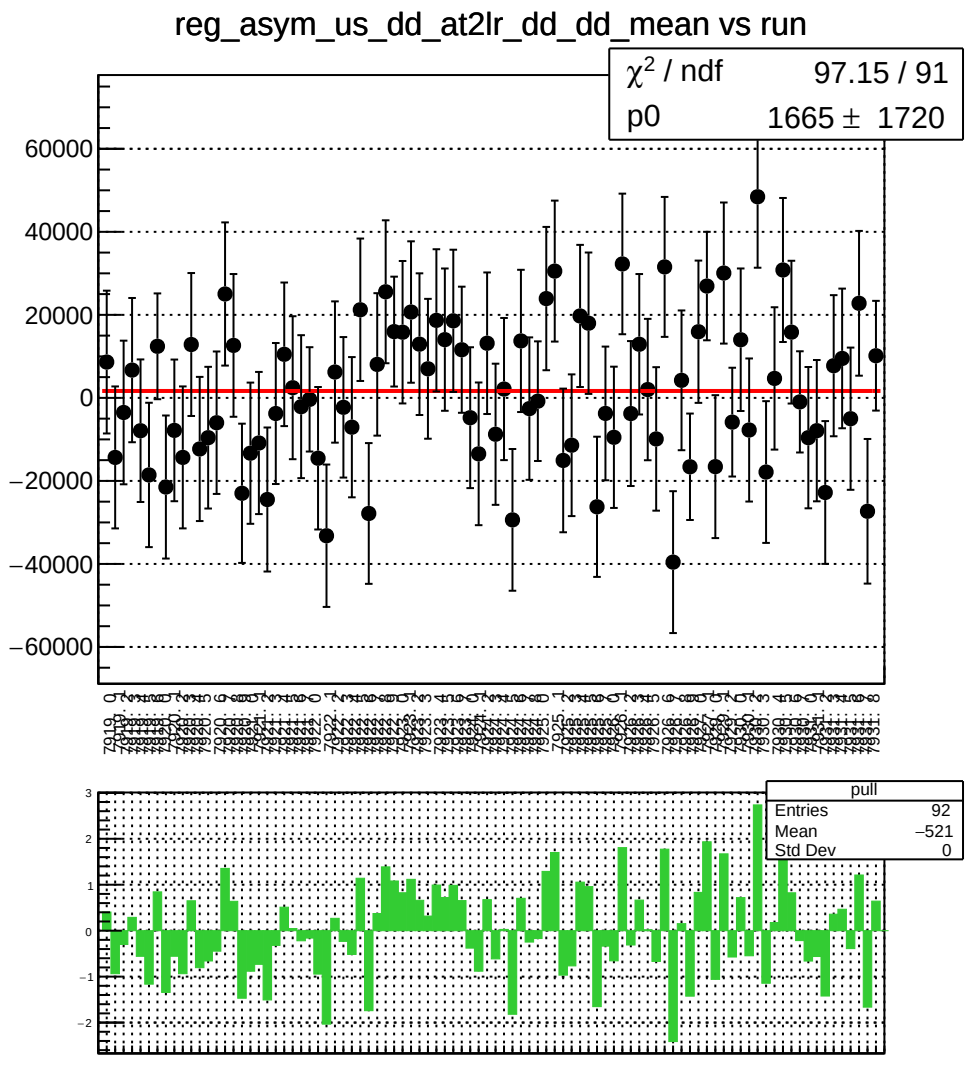

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.136e+04 / 91
p0 133.6 ± 0.1021
200
180
160
140
120
100
80

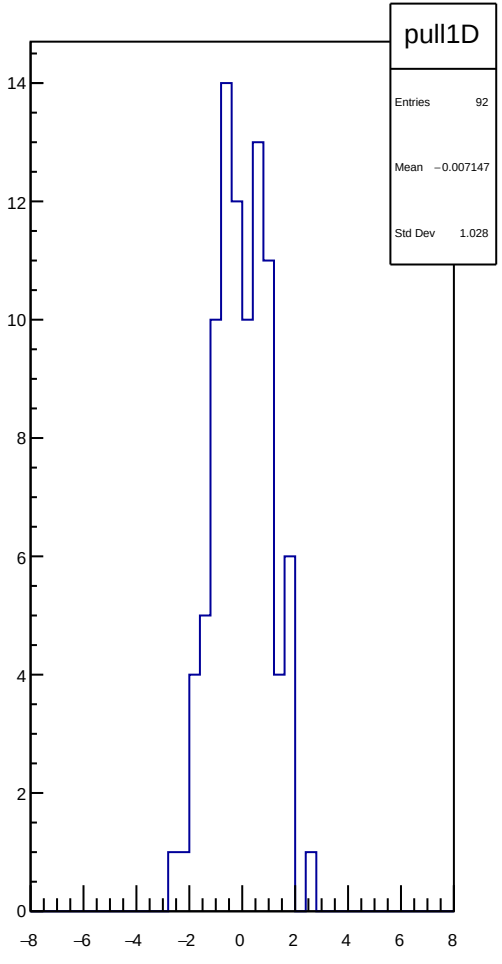

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.7 / 91
p0 0.003331 ± 0.1444
pull
Entries 92
Mean 9430
Std Dev 0
pull1D
Entries 92
Mean 0.0003952
Std Dev 1.067

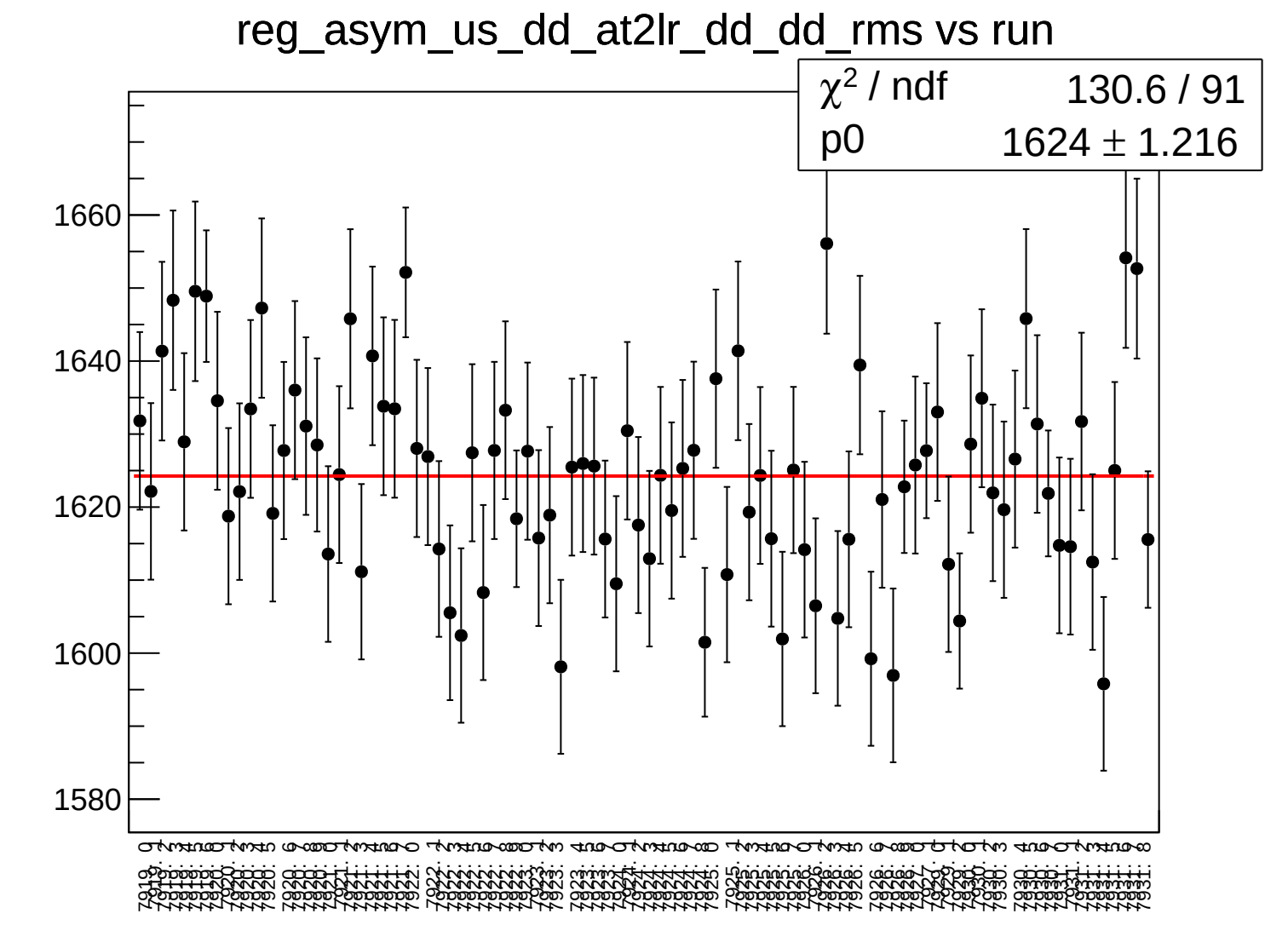

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.136e+04 / 91
p0 133.6 ± 0.1021
200
180
160
140
120
100
80

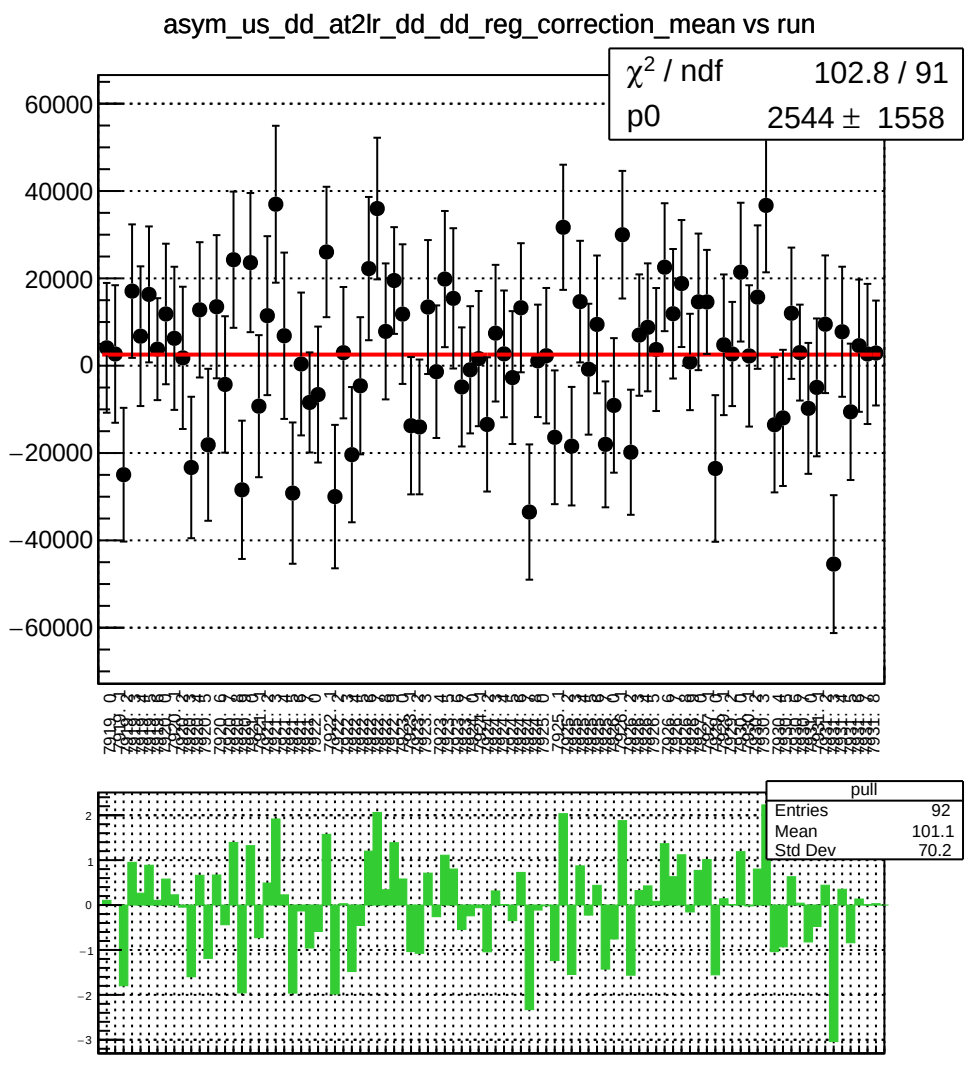

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 65.06 / 91
p0 1.486e−12 ± 4.962e−13
pull
Entries 92
Mean 7.773
Std Dev 0
pull1D
Entries 92
Mean 0.03602
Std Dev 0.8402

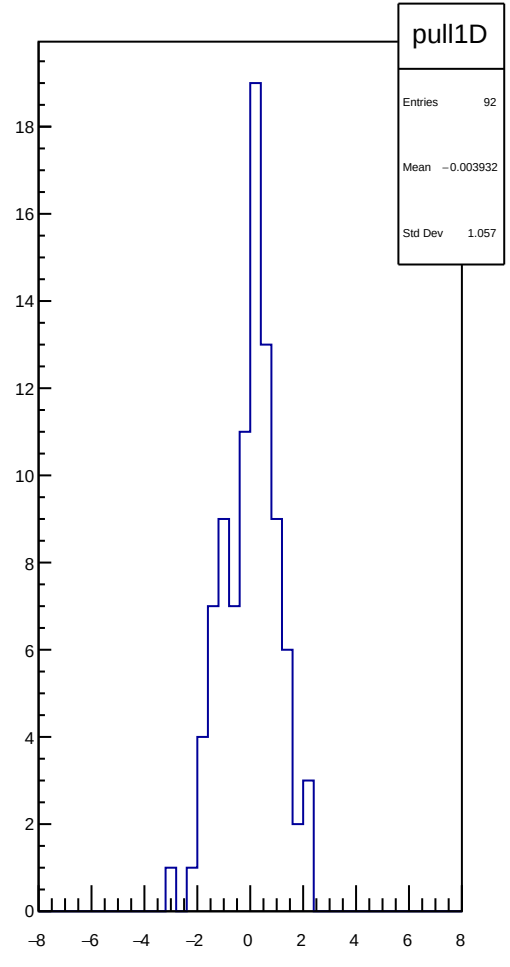

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.436e+05 / 91
p0 3.745e−10 ± 3.509e−13
2.5
2
1.5
1
0.5

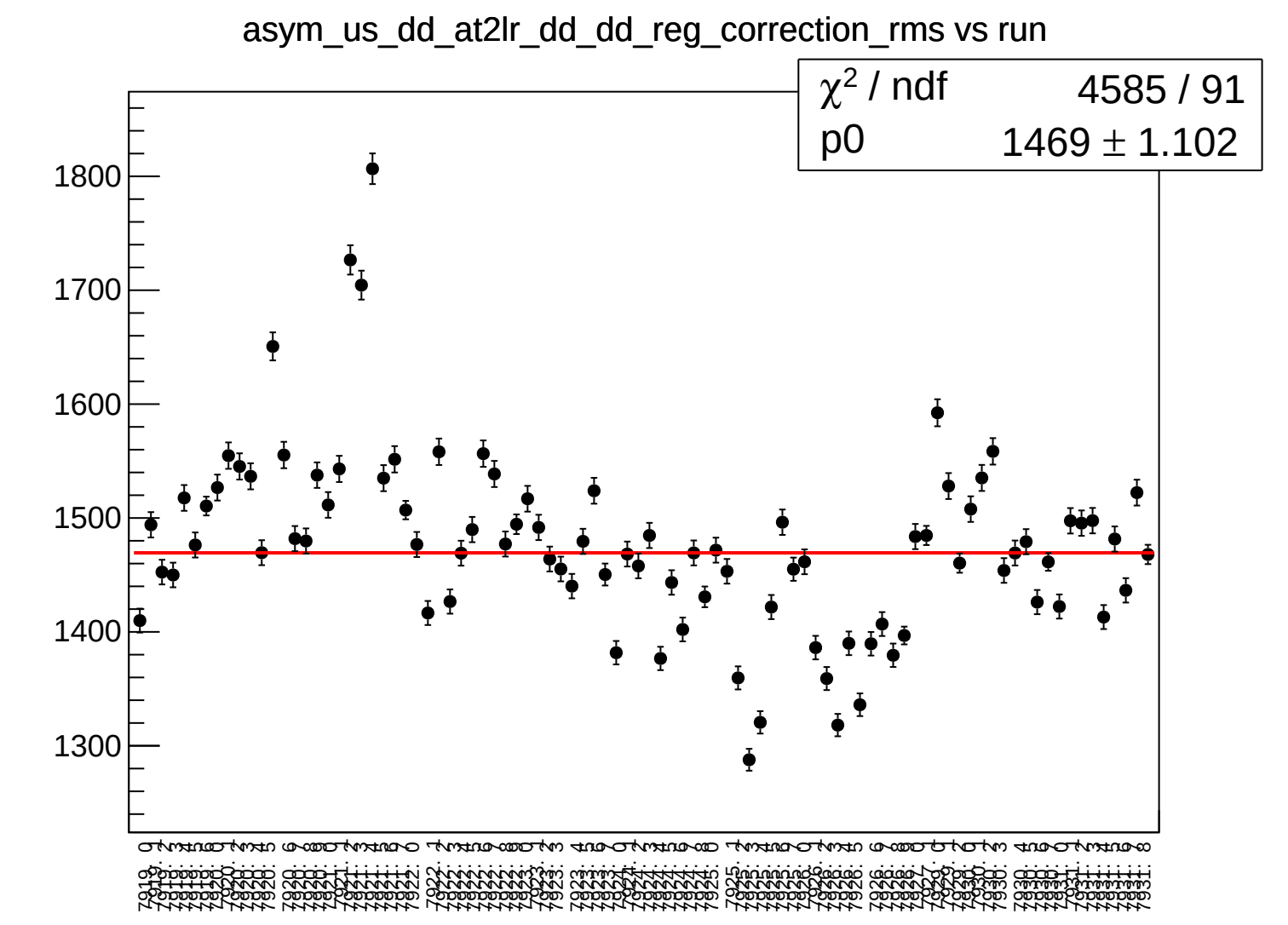

reg_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 97.15 / 91
p0 1665 ± 1720
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −521
Std Dev 0
3
2
1
0
−1
−2

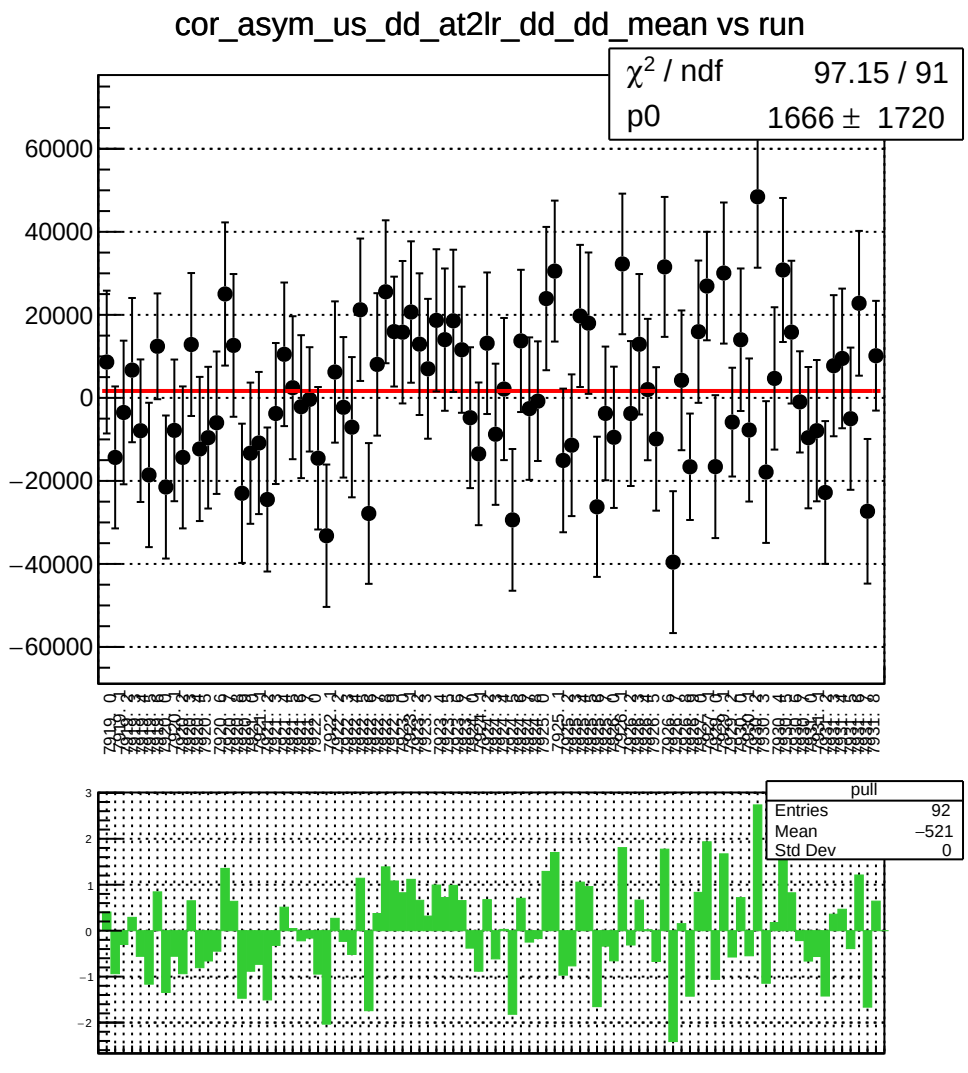

pull1D
Entries 92
Mean −0.007147
Std Dev 1.028
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

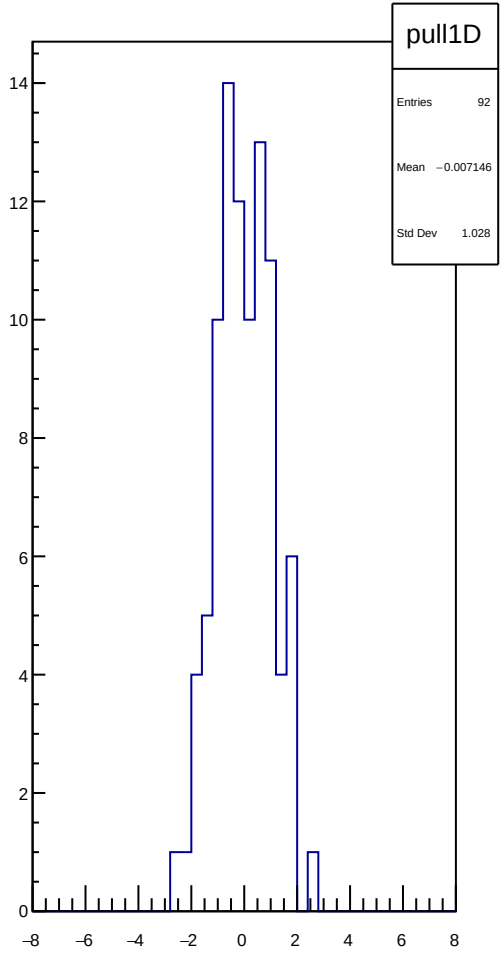

reg_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 130.6 / 91
p0 1624 ± 1.216
1660
1640
1620
1600
1580

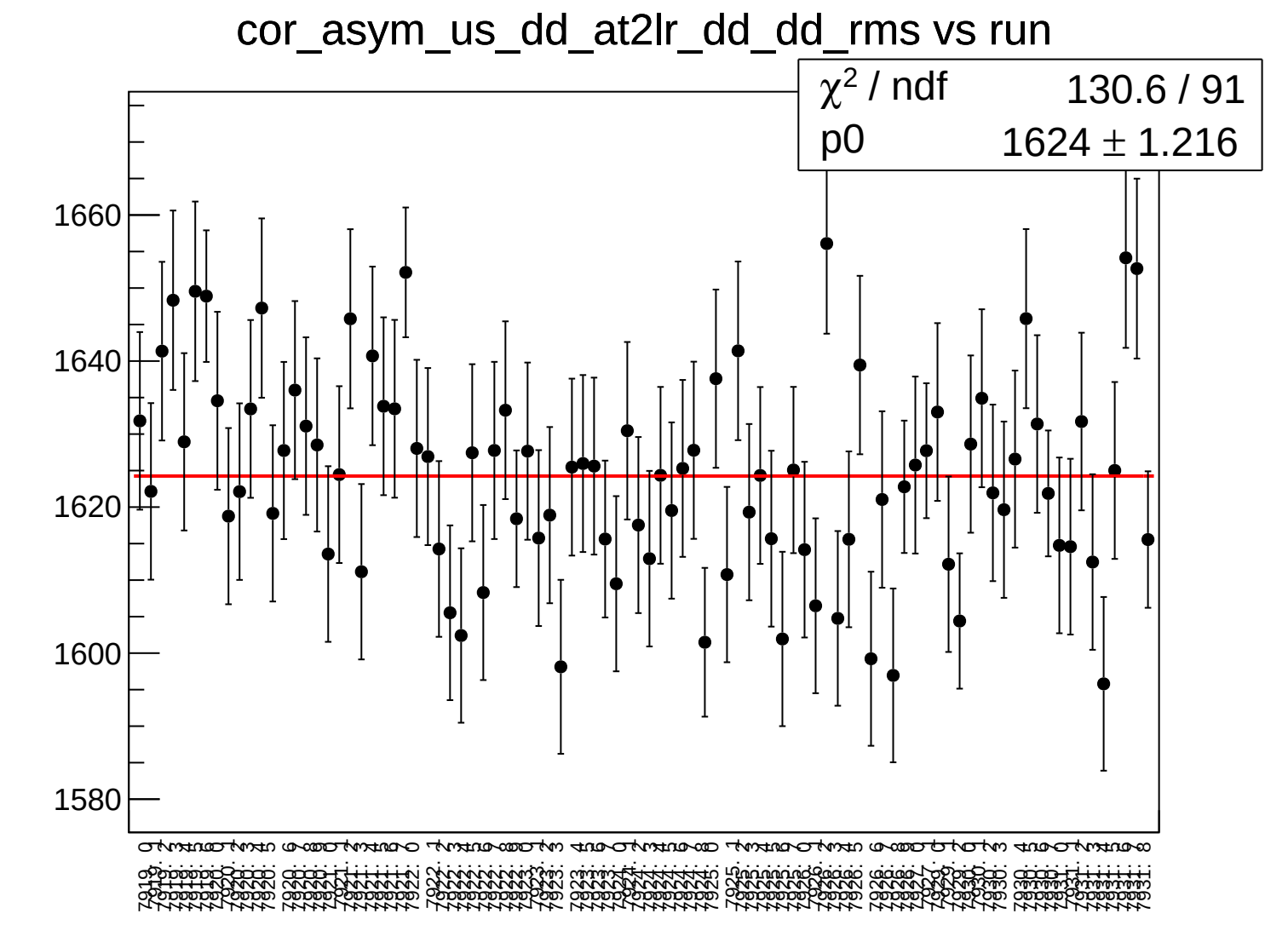

asym_us_dd_at2lr_dd_dd_reg_correction_mean vs run
χ² / ndf 102.8 / 91
p0 2544 ± 1558
pull
Entries 92
Mean 101.1
Std Dev 70.2

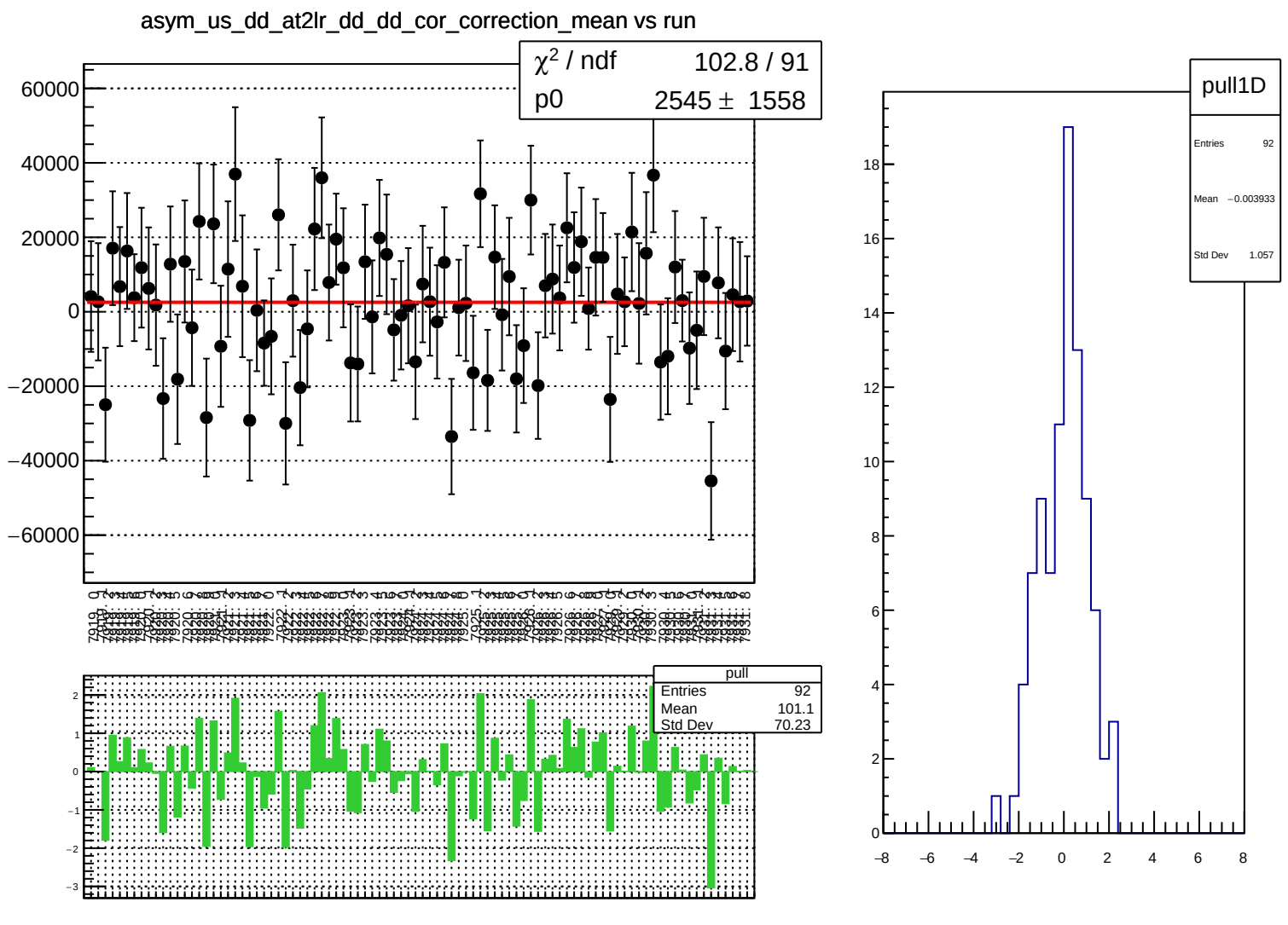

pull1D
Entries 92
Mean −0.003932
Std Dev 1.057

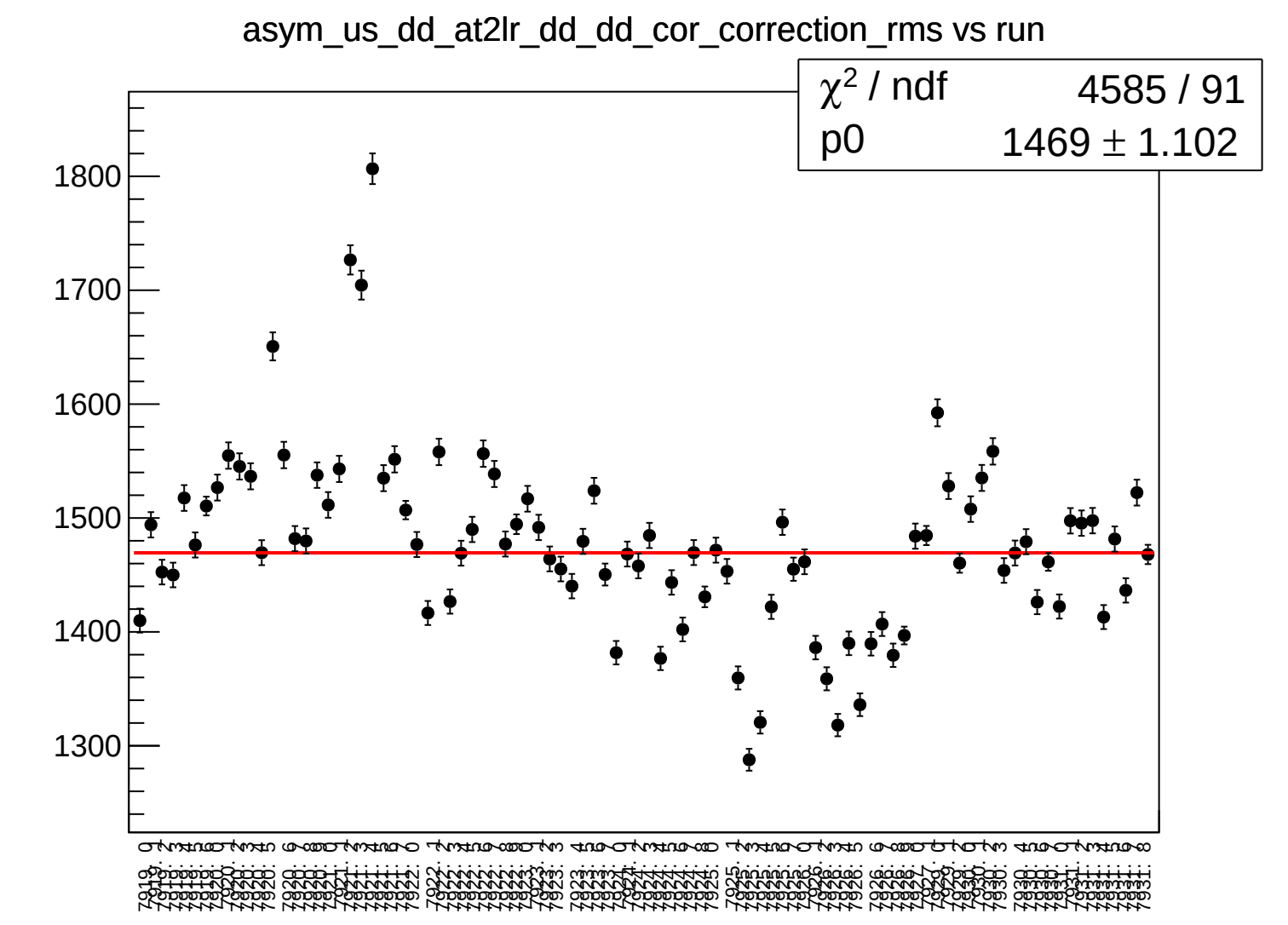

asym_us_dd_at2lr_dd_dd_reg_correction_rms vs run
χ² / ndf 4585 / 91
p0 1469 ± 1.102
1800
1700
1600
1500
1400
1300

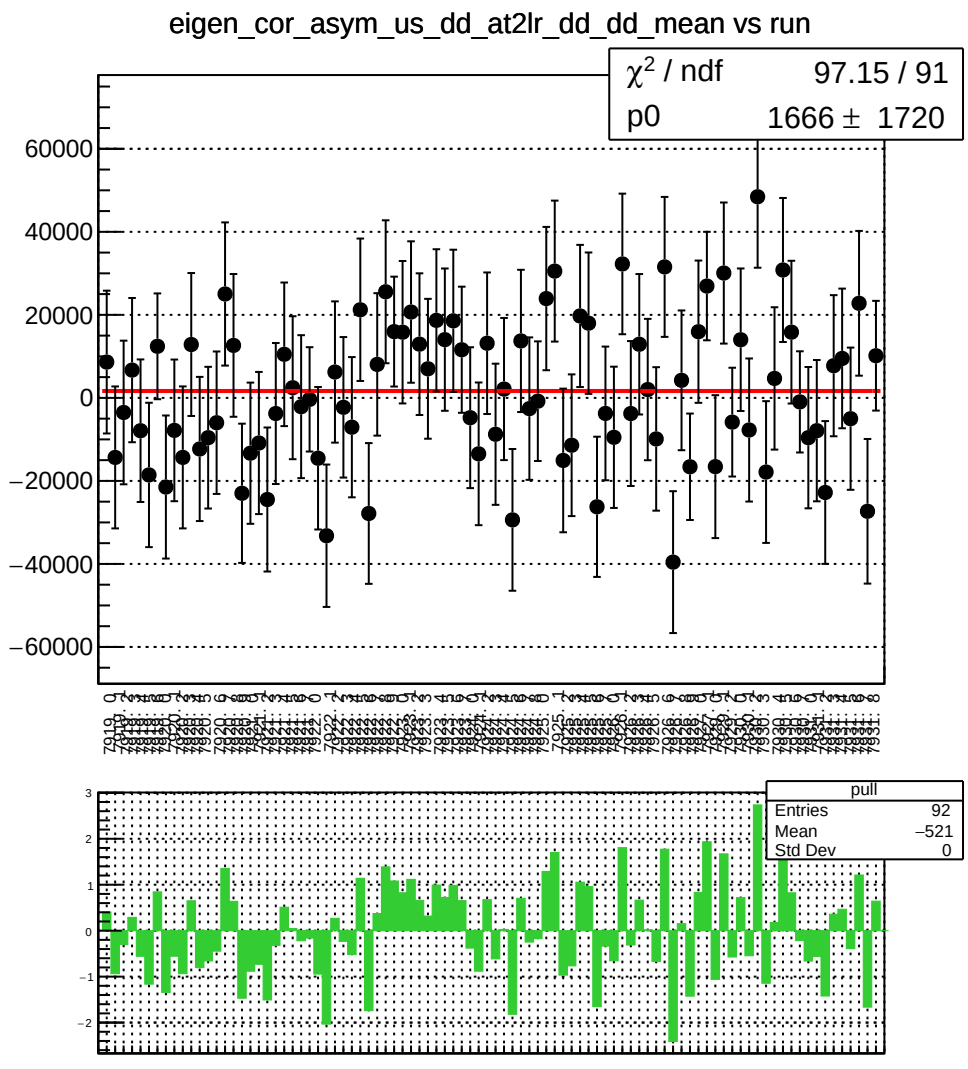

cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 97.15 / 91
p0 1666 ± 1720
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −521
Std Dev 0
3
2
1
0
−1
−2

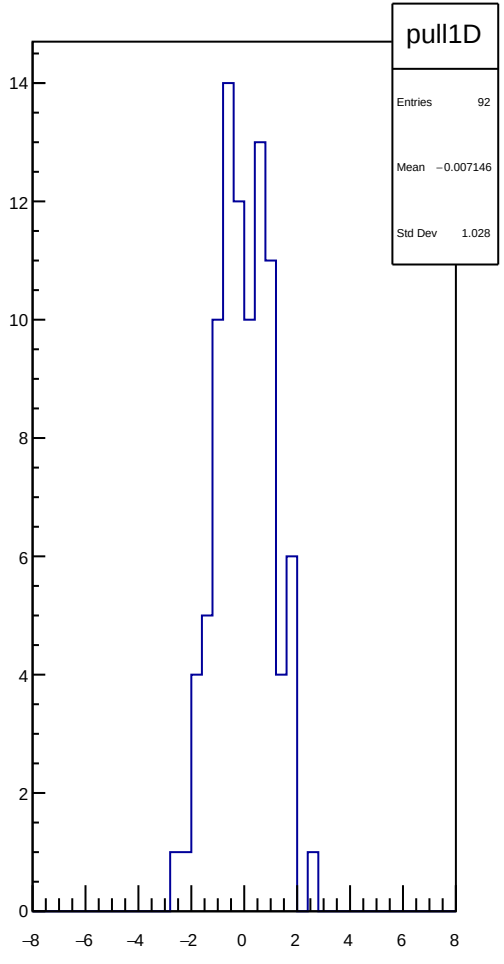

pull1D
Entries 92
Mean −0.007146
Std Dev 1.028
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

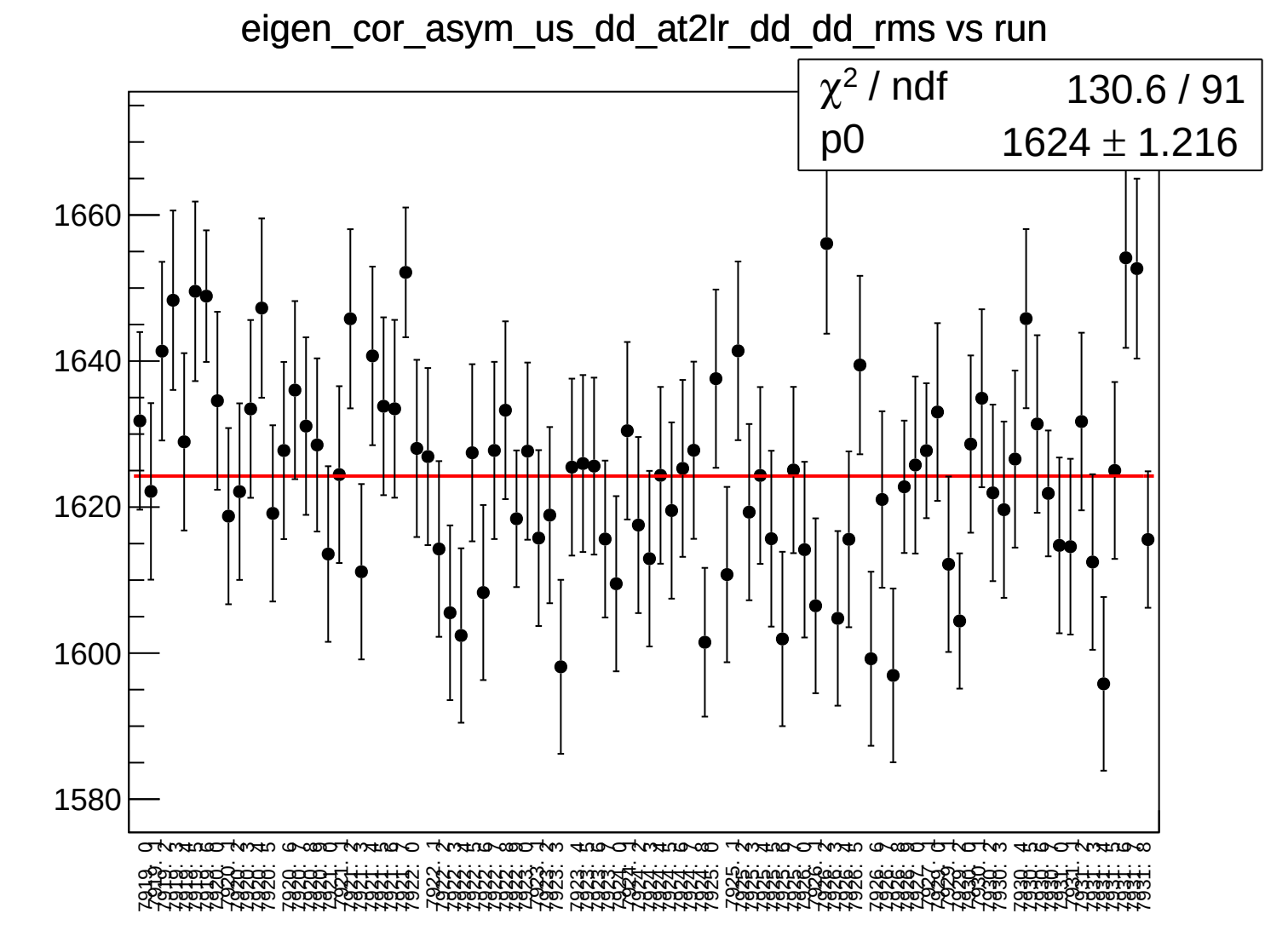

cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ^2 / ndf 130.6 / 91
p0 1624 ± 1.216
1660
1640
1620
1600
1580

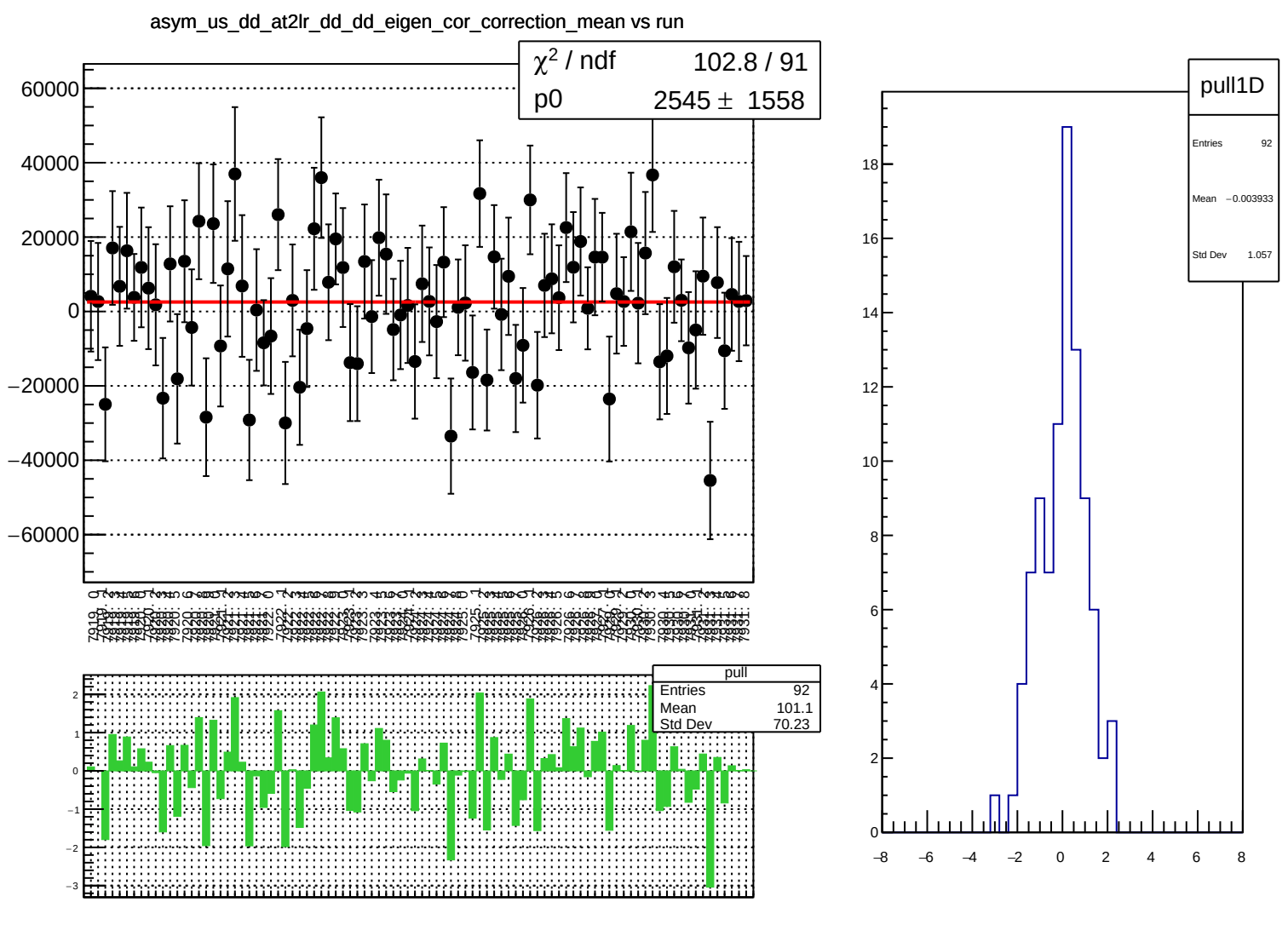

asym_us_dd_at2lr_dd_dd_cor_correction_mean vs run
χ² / ndf 102.8 / 91
p0 2545 ± 1558
pull
Entries 92
Mean 101.1
Std Dev 70.23
pull1D
Entries 92
Mean −0.003933
Std Dev 1.057

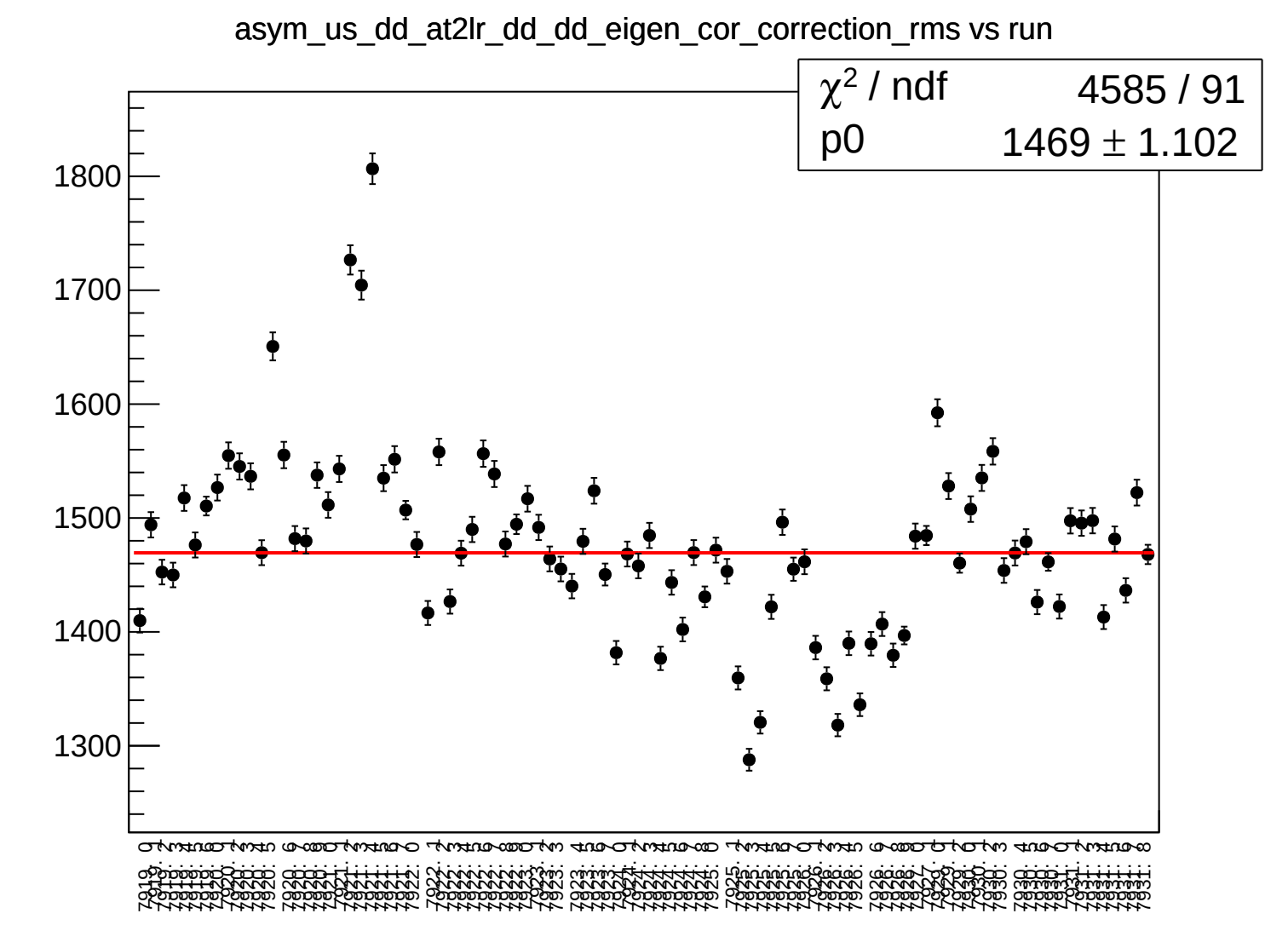

asym_us_dd_at2lr_dd_dd_cor_correction_rms vs run
χ² / ndf 4585 / 91
p0 1469 ± 1.102
1800
1700
1600
1500
1400
1300

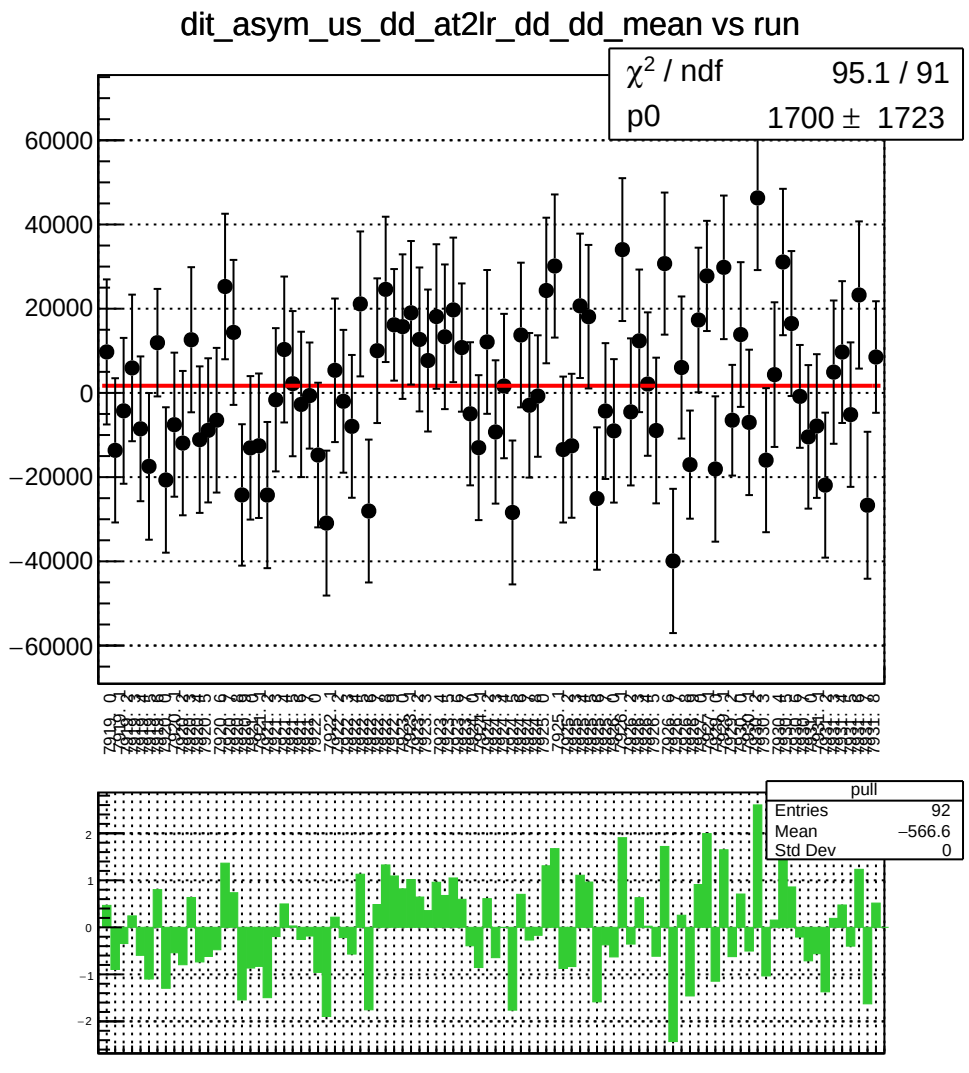

eigen_cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 97.15 / 91
p0 1666 ± 1720
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −521
Std Dev 0
3
2
1
0
−1
−2

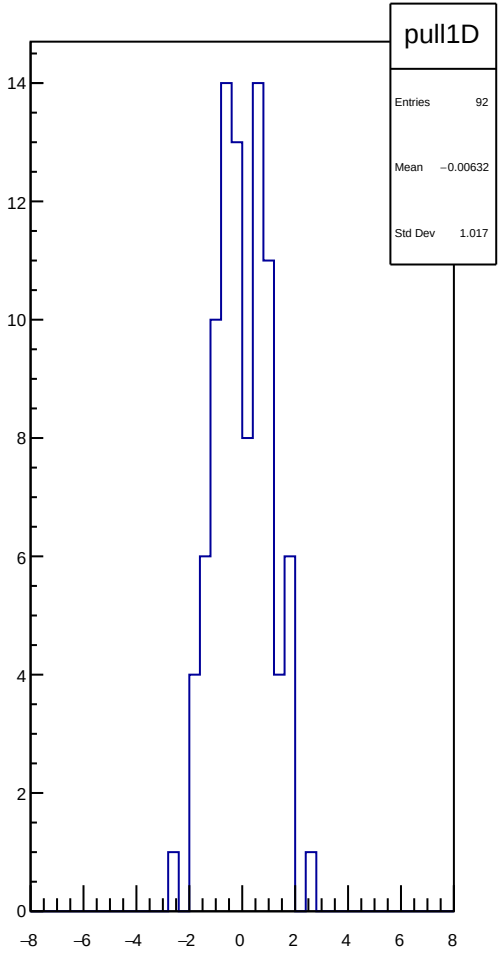

pull1D
Entries 92
Mean −0.007146
Std Dev 1.028
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

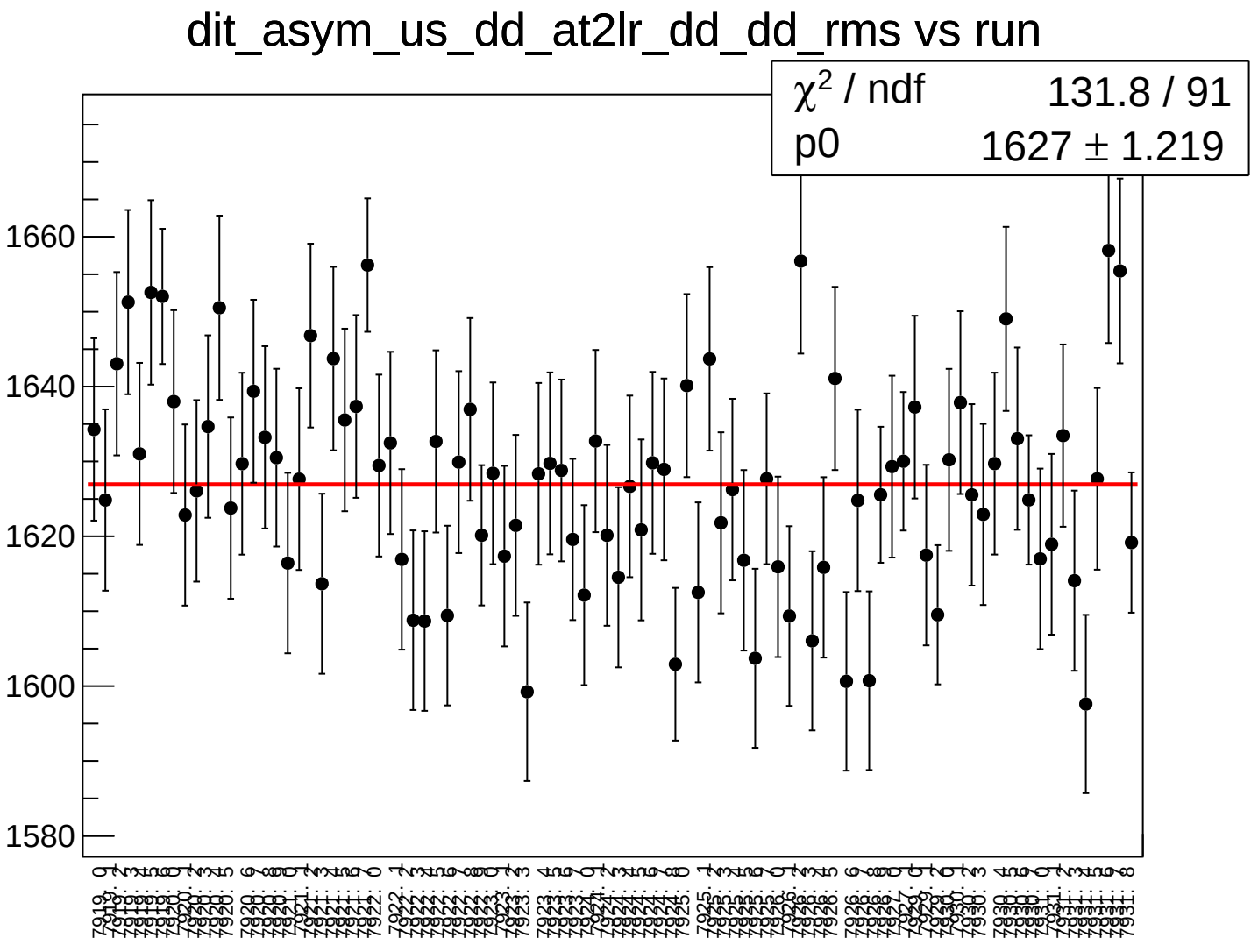

eigen_cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 130.6 / 91
p0 1624 ± 1.216
1660
1640
1620
1600
1580

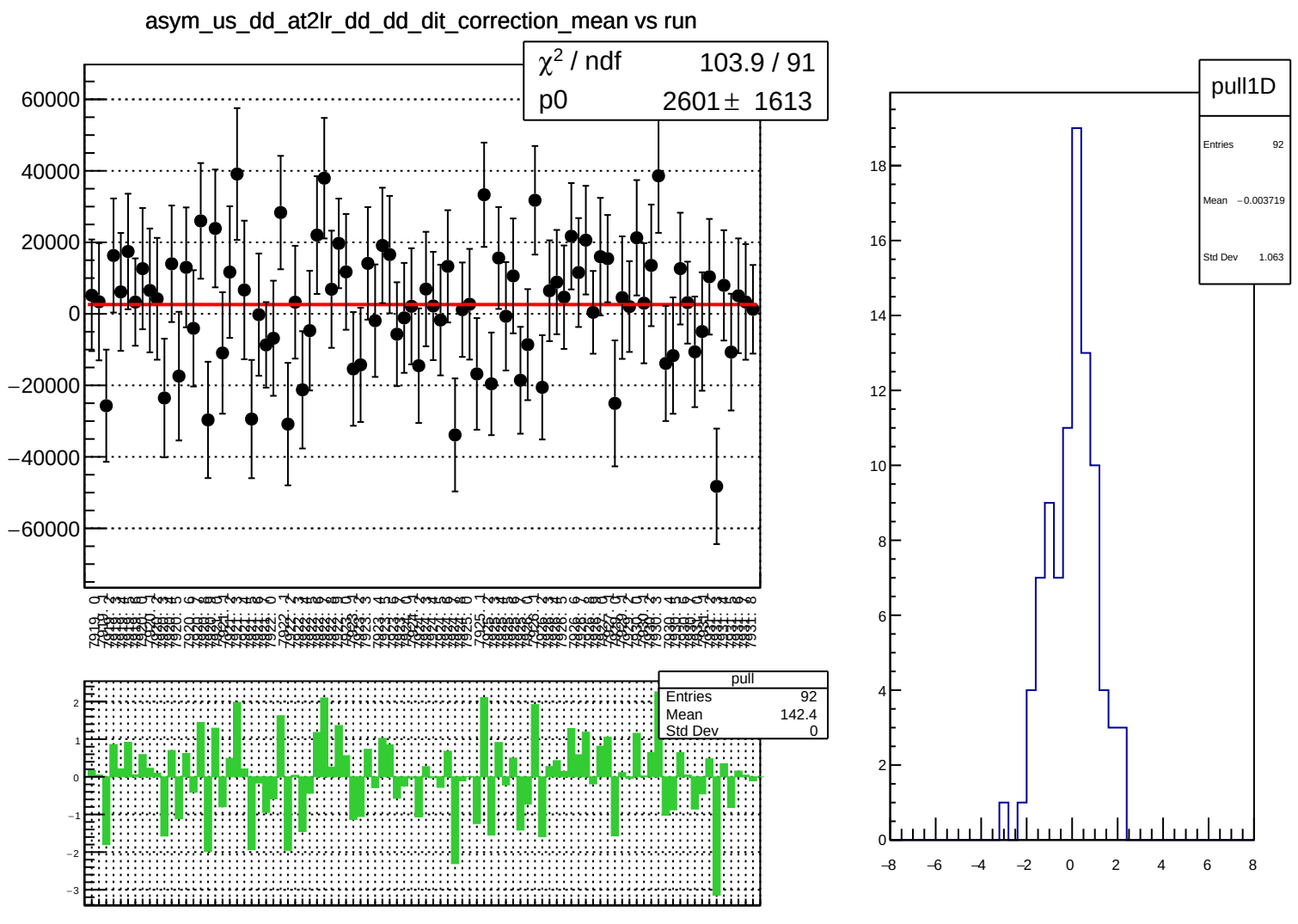

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 102.8 / 91
p0 2545 ± 1558
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 101.1
Std Dev 70.23
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.003933
Std Dev 1.057
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

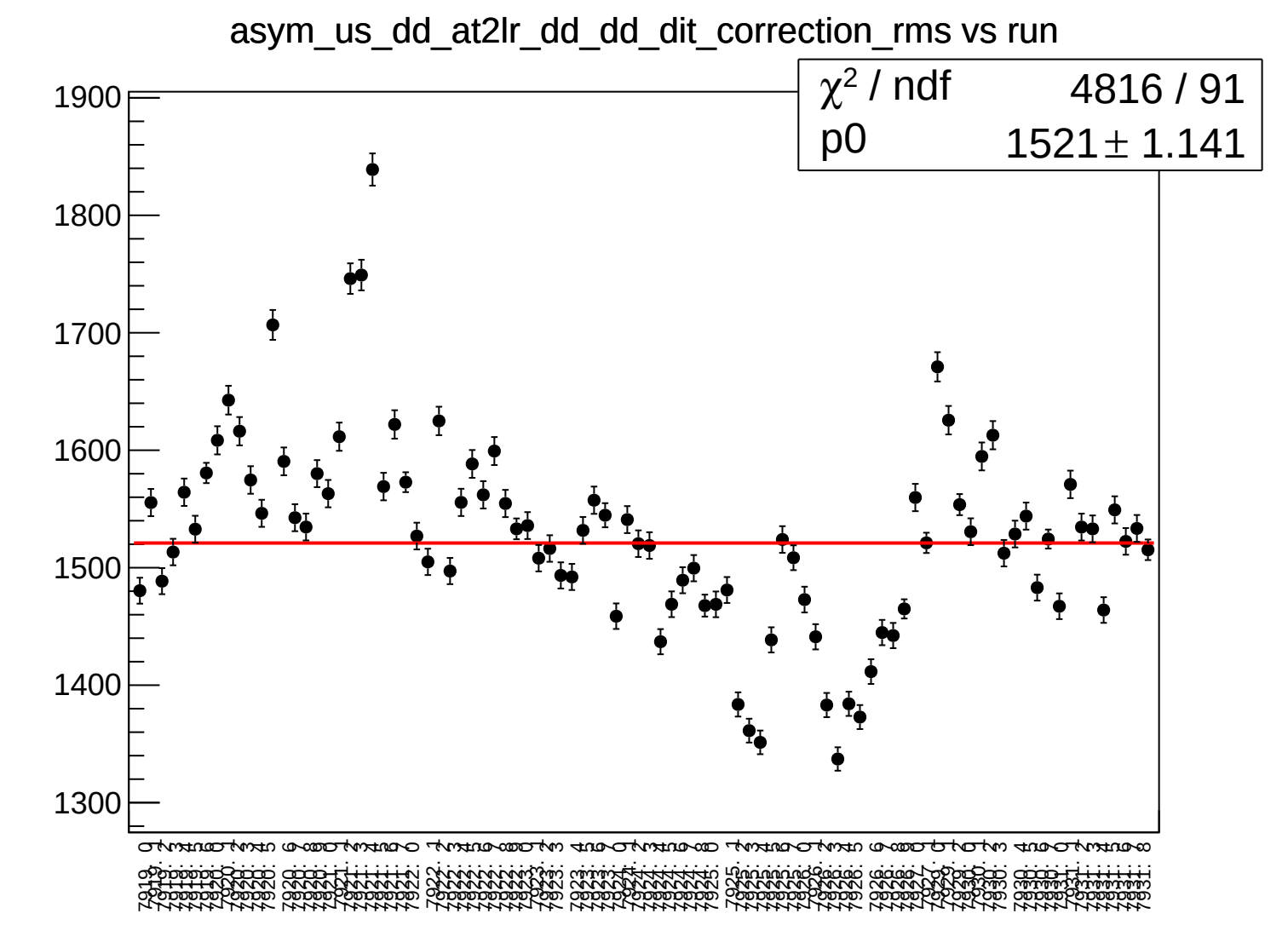

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 4585 / 91
p0 1469 ± 1.102
1800
1700
1600
1500
1400
1300

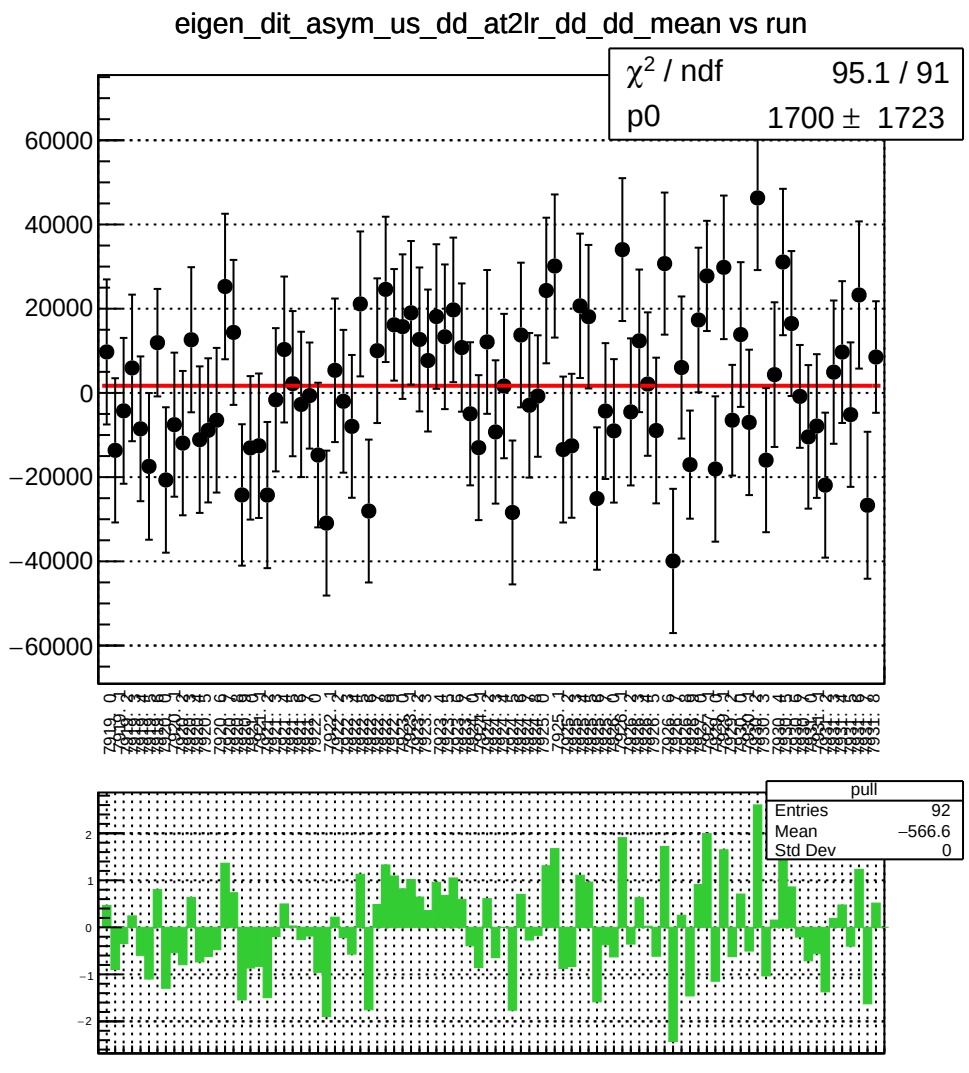

dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 95.1 / 91
p0 1700 ± 1723
pull
Entries 92
Mean −566.6
Std Dev 0

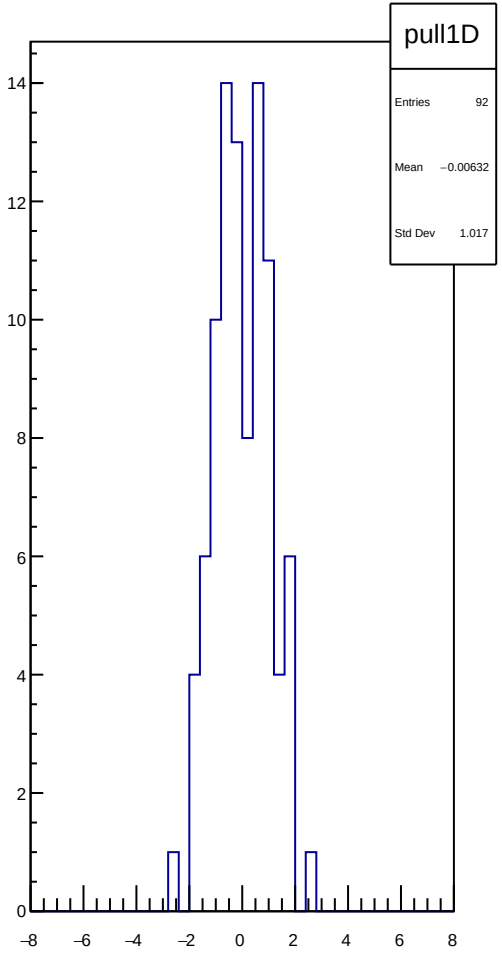

pull1D
Entries 92
Mean −0.00632
Std Dev 1.017

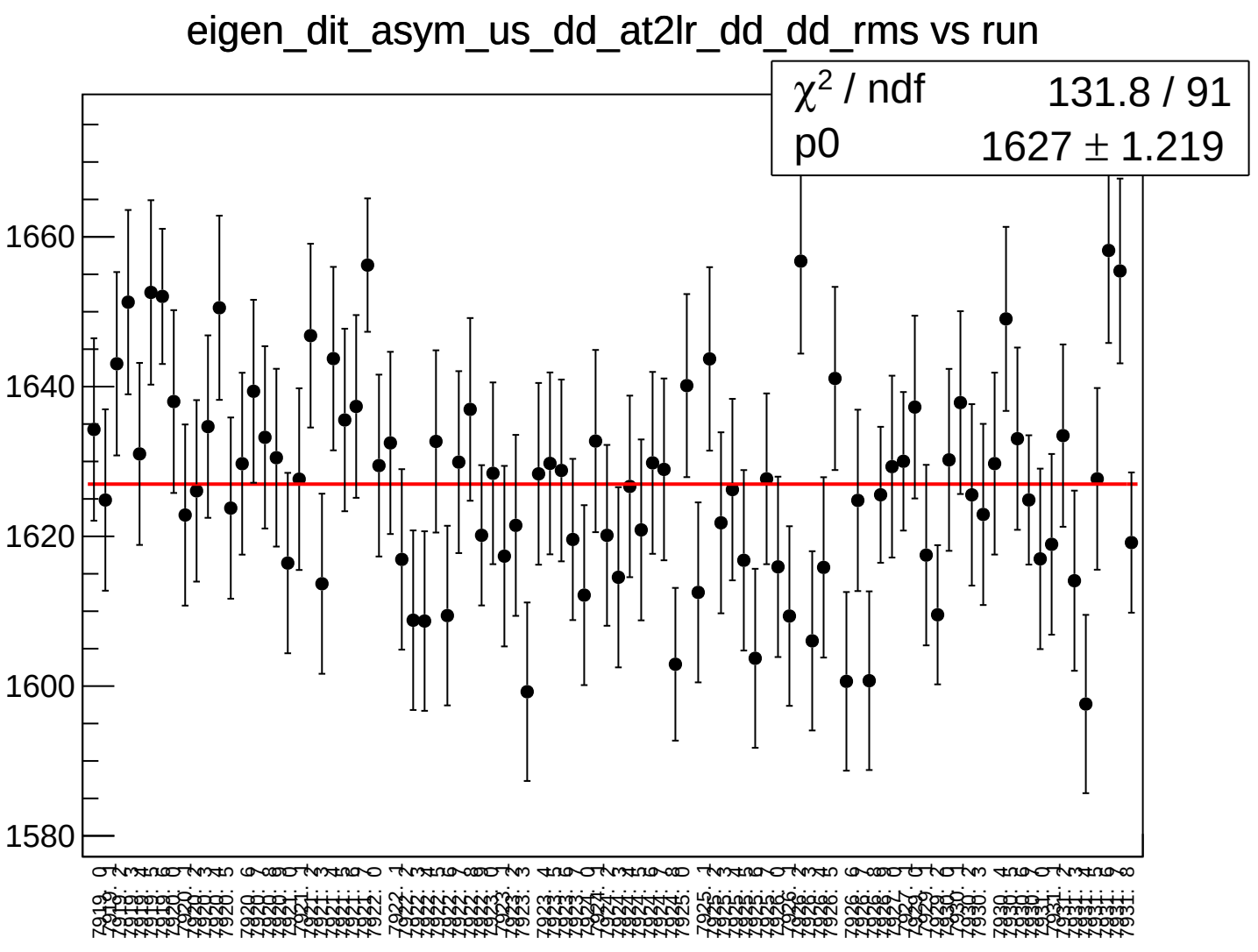

dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 131.8 / 91
p0 1627 ± 1.219
1660
1640
1620
1600
1580

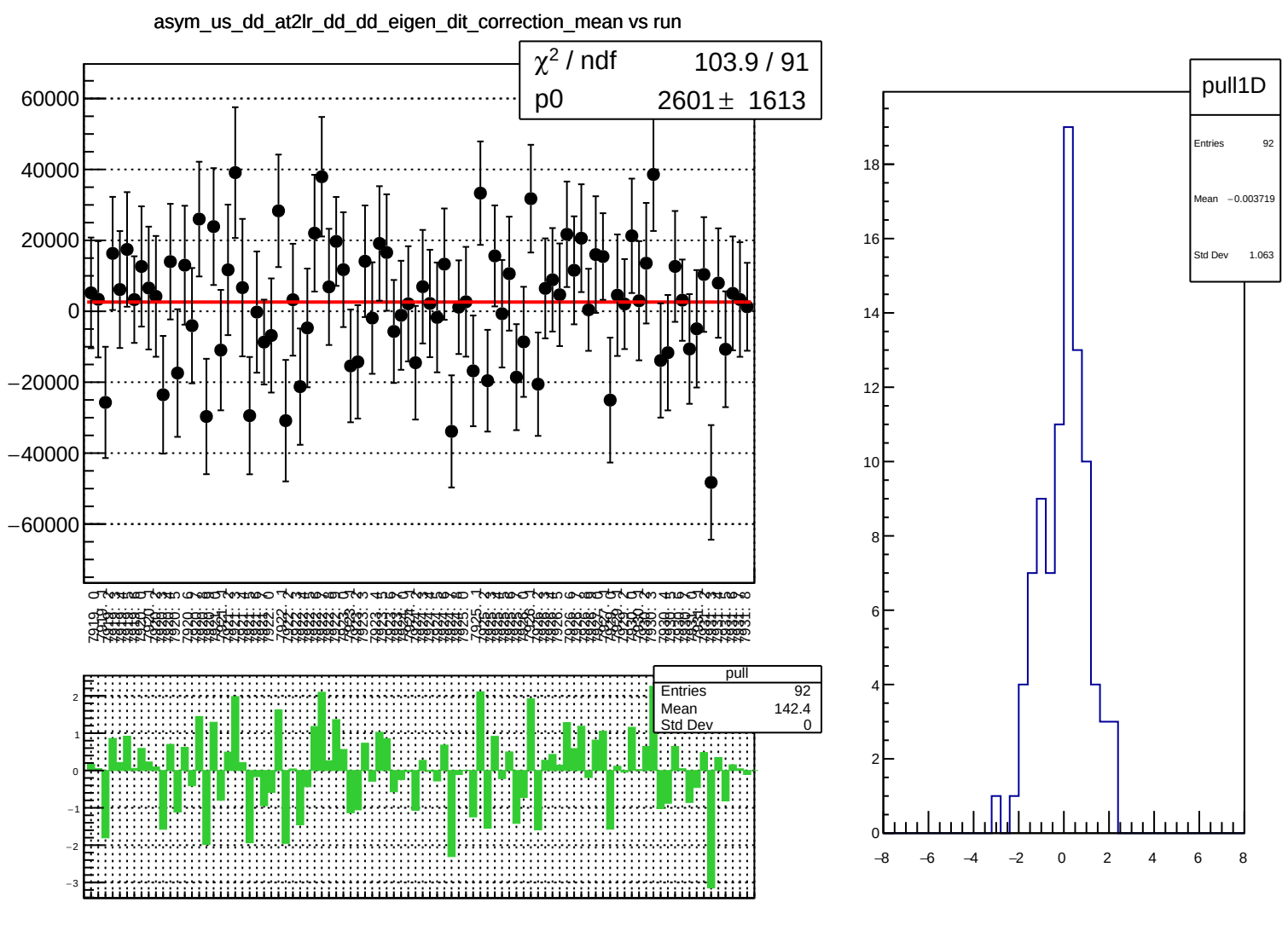

asym_us_dd_at2lr_dd_dd_dit_correction_mean vs run
χ² / ndf 103.9 / 91
p0 2601 ± 1613
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 142.4
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.003719
Std Dev 1.063
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

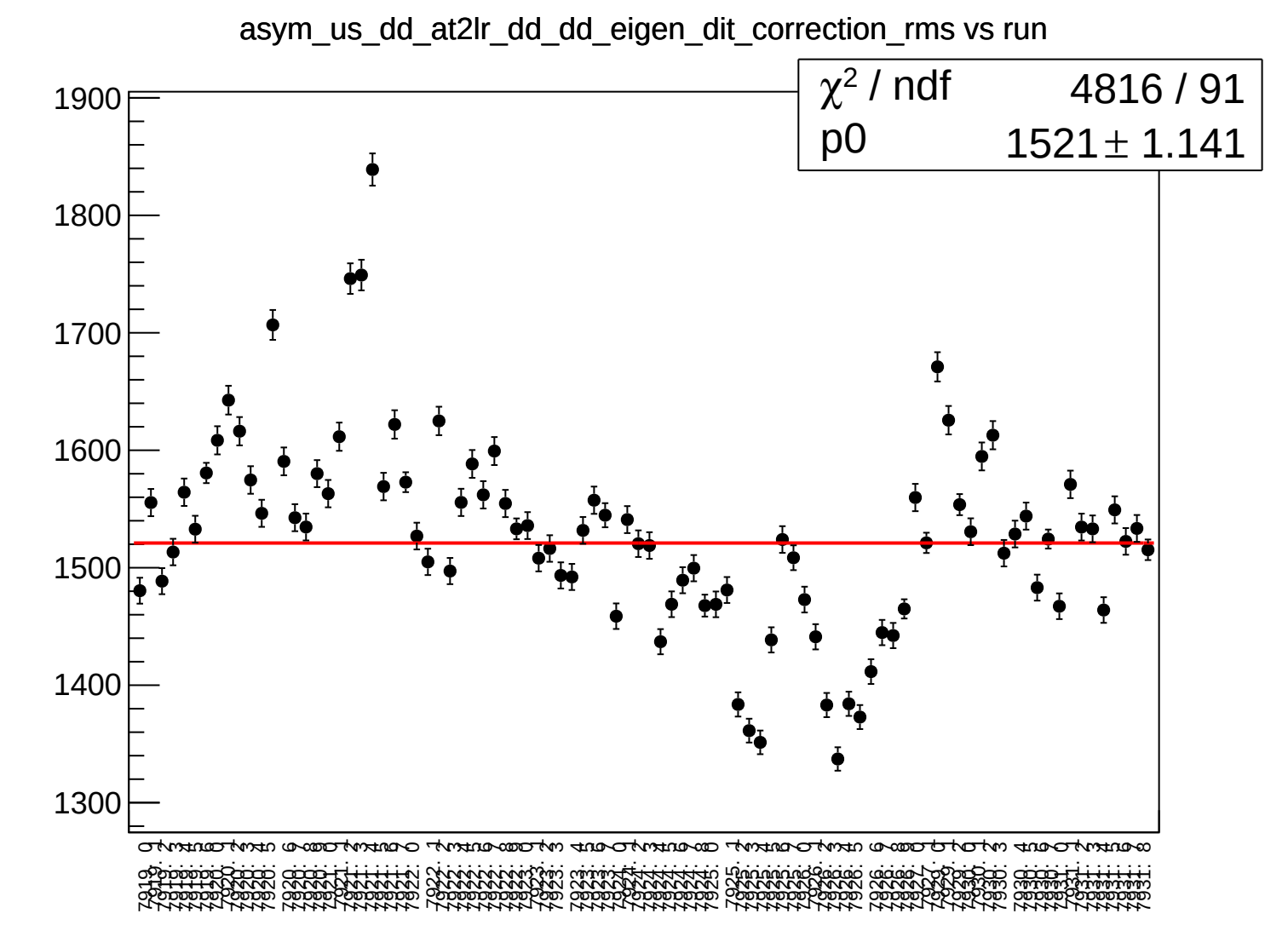

asym_us_dd_at2lr_dd_dd_dit_correction_rms vs run
χ² / ndf 4816 / 91
p0 1521 ± 1.141
1900
1800
1700
1600
1500
1400
1300

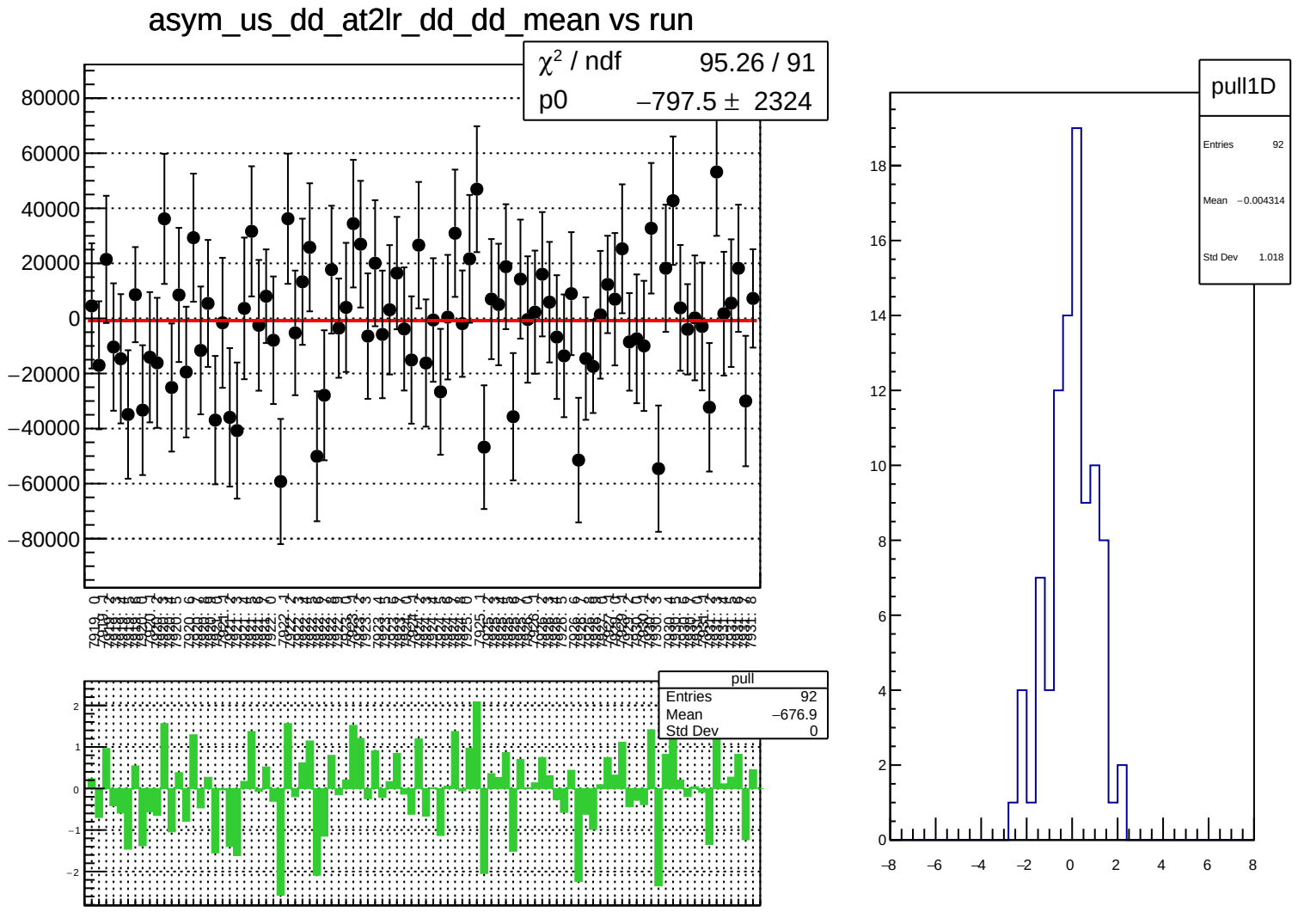

eigen_dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 95.1 / 91
p0 1700 ± 1723
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −566.6
Std Dev 0
2
1
0
−1
−2

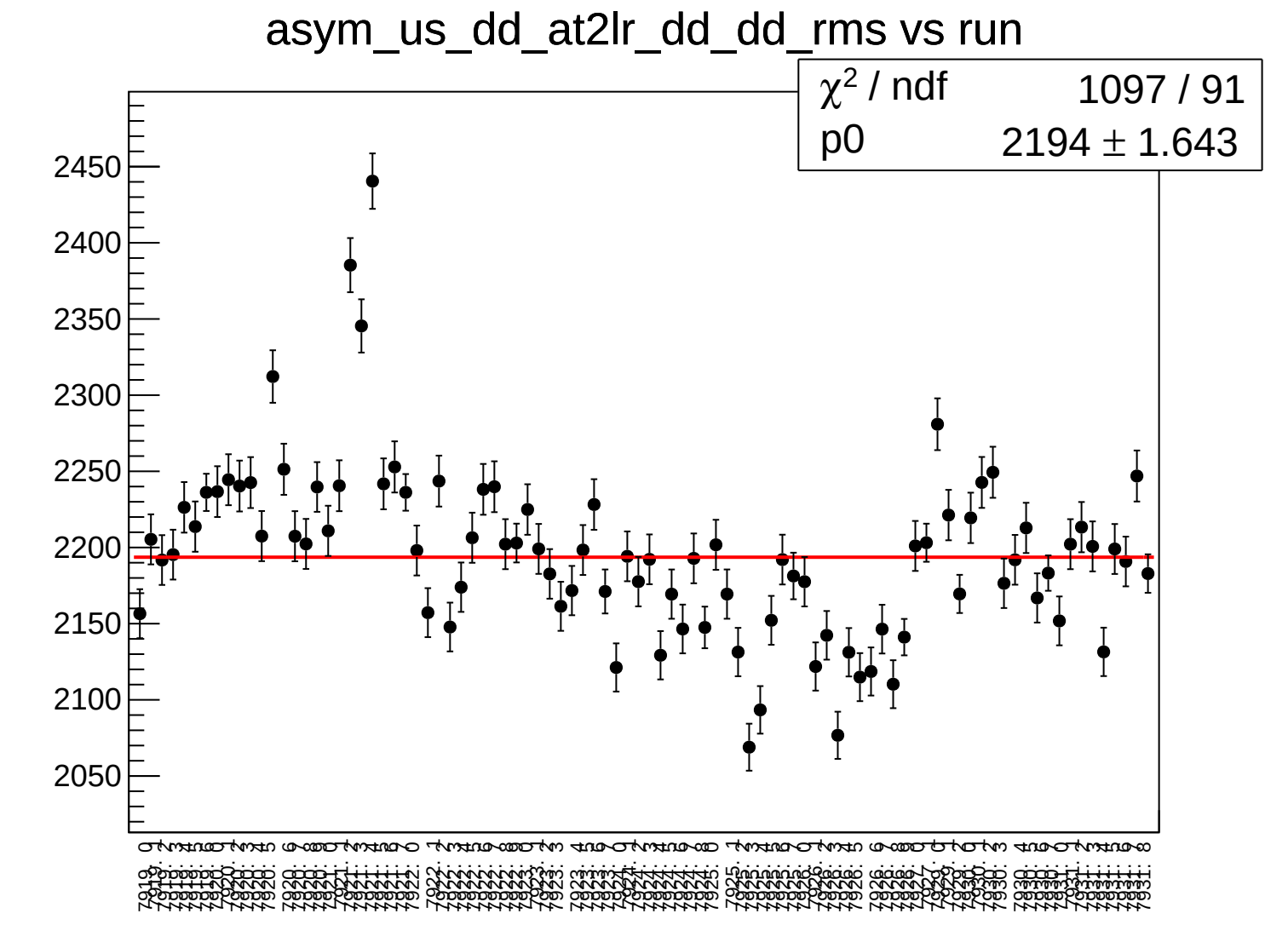

pull1D
Entries 92
Mean −0.00632
Std Dev 1.017
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

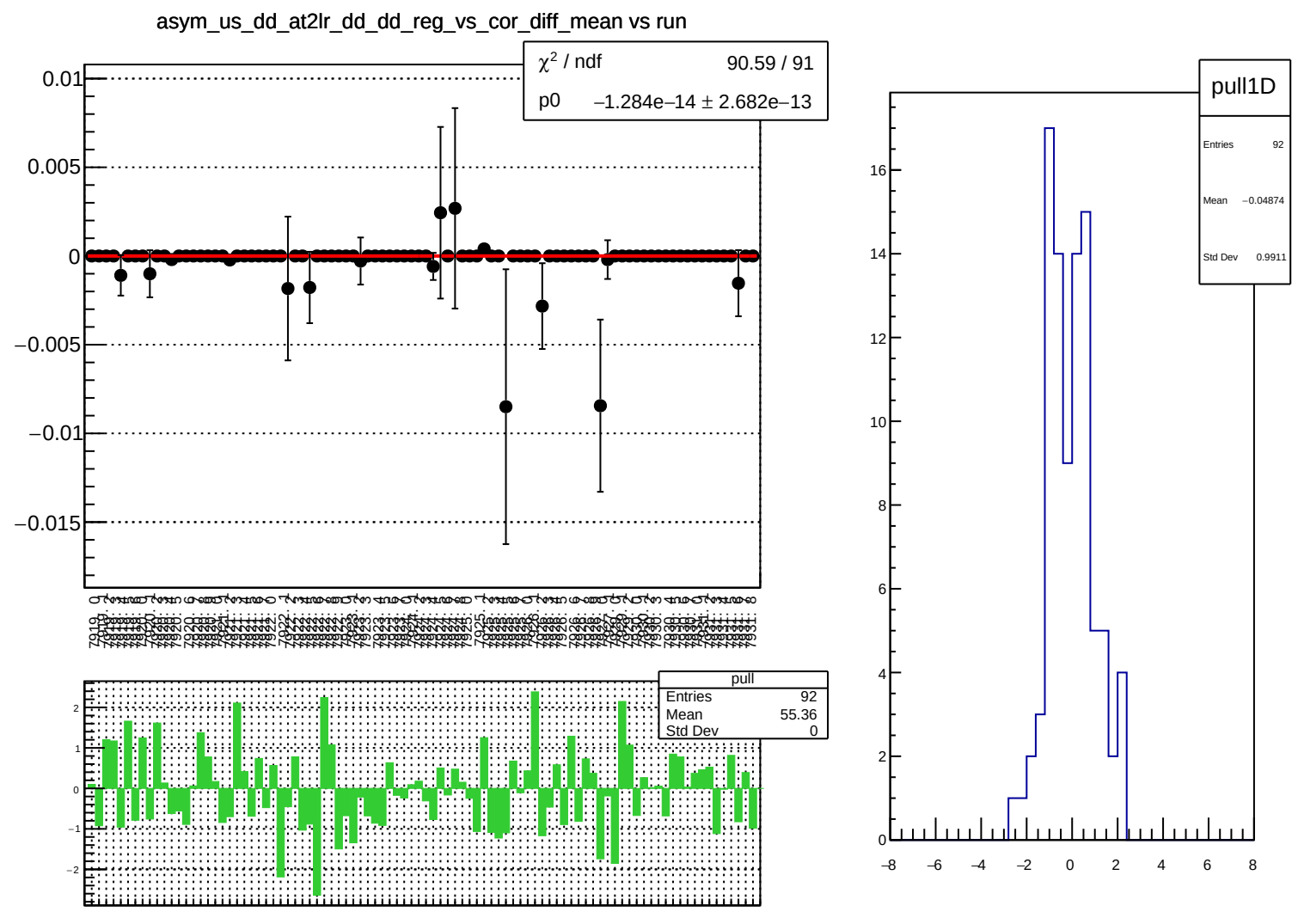

eigen_dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ^2 / ndf 131.8 / 91
p0 1627 ± 1.219
1660
1640
1620
1600
1580

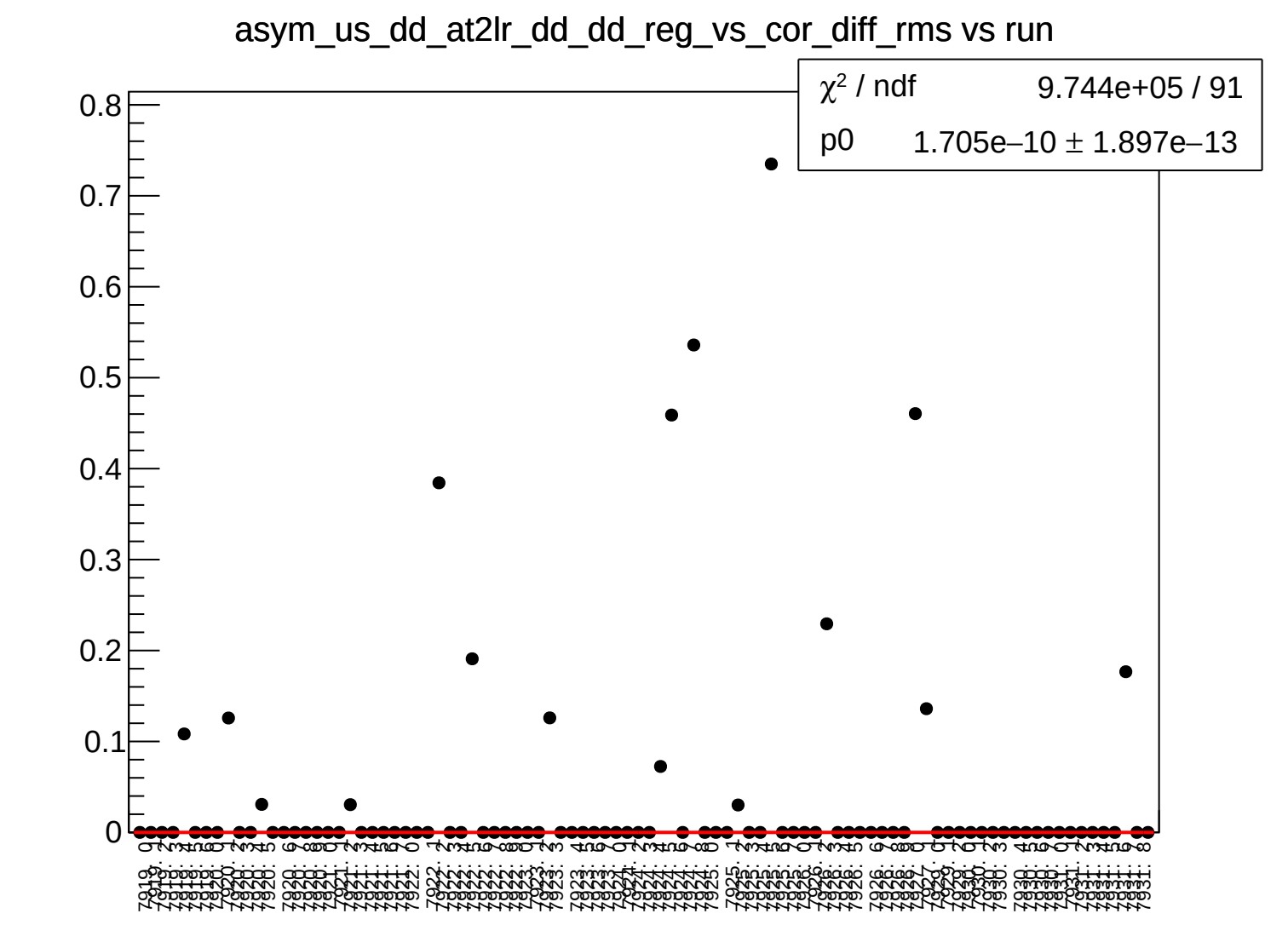

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 103.9 / 91
p0 2601 ± 1613
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 142.4
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.003719
Std Dev 1.063
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

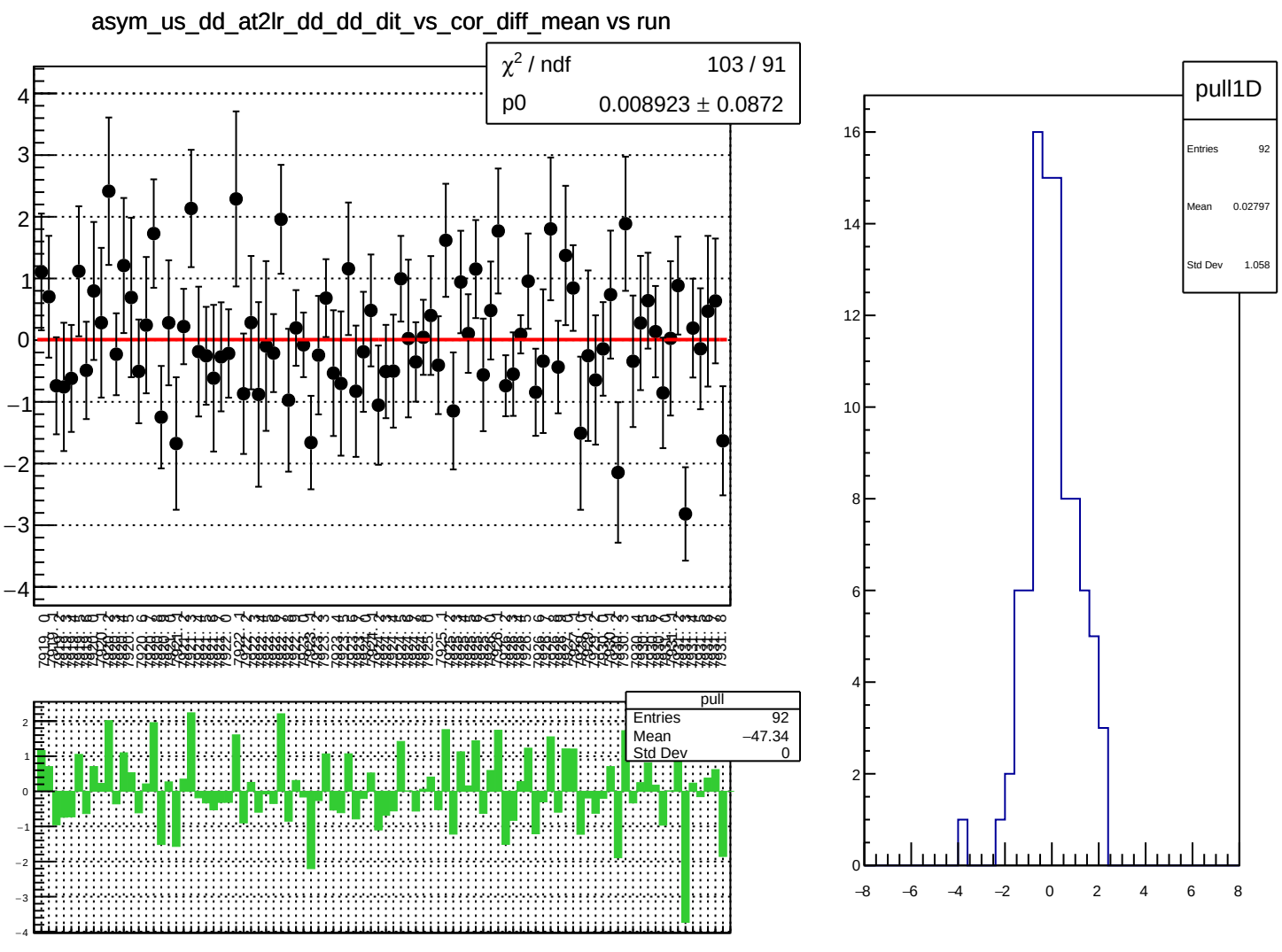

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 4816 / 91
p0 1521 ± 1.141
1900
1800
1700
1600
1500
1400
1300

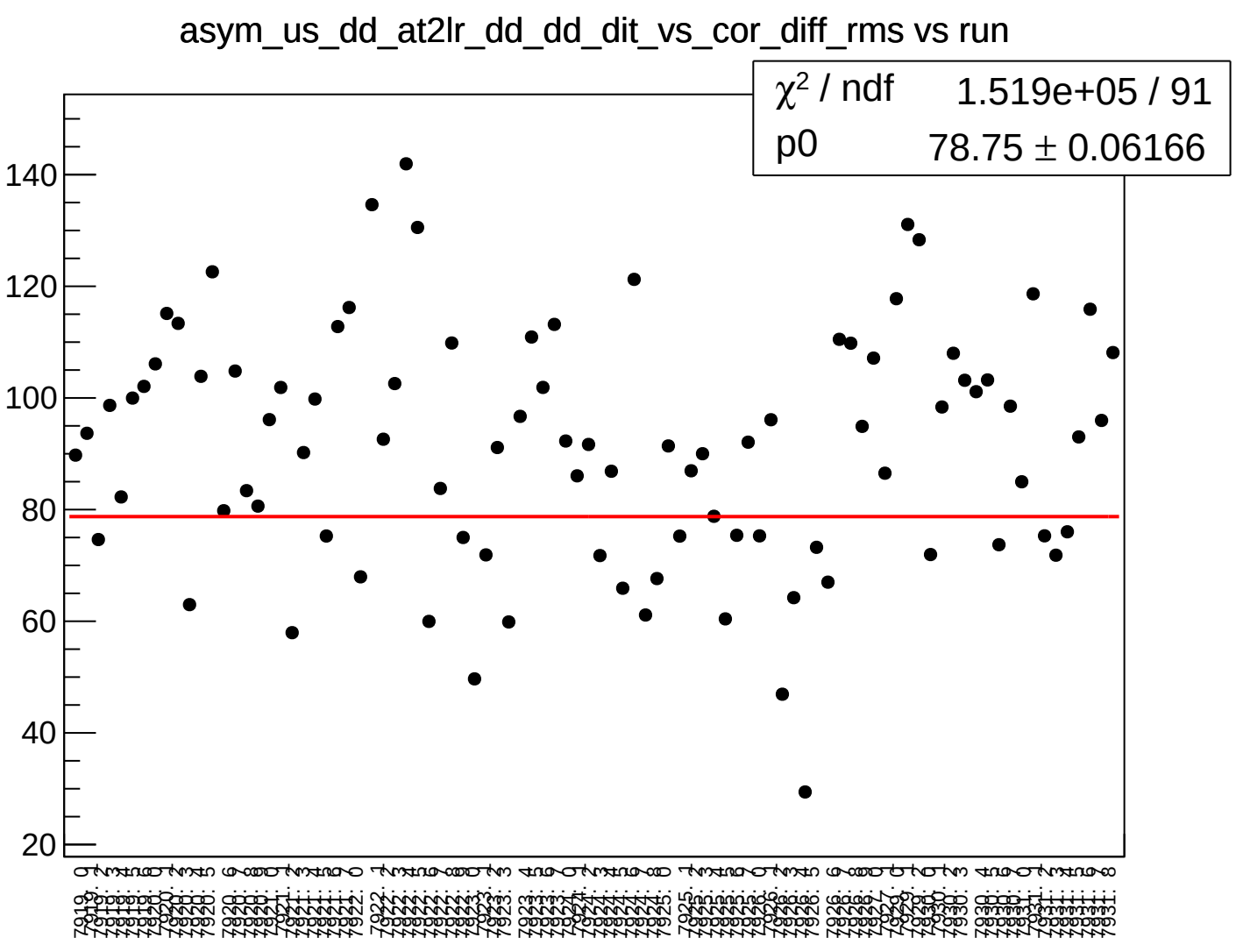

asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 95.26 / 91
p0 −797.5 ± 2324
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean −676.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.004314
Std Dev 1.018
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

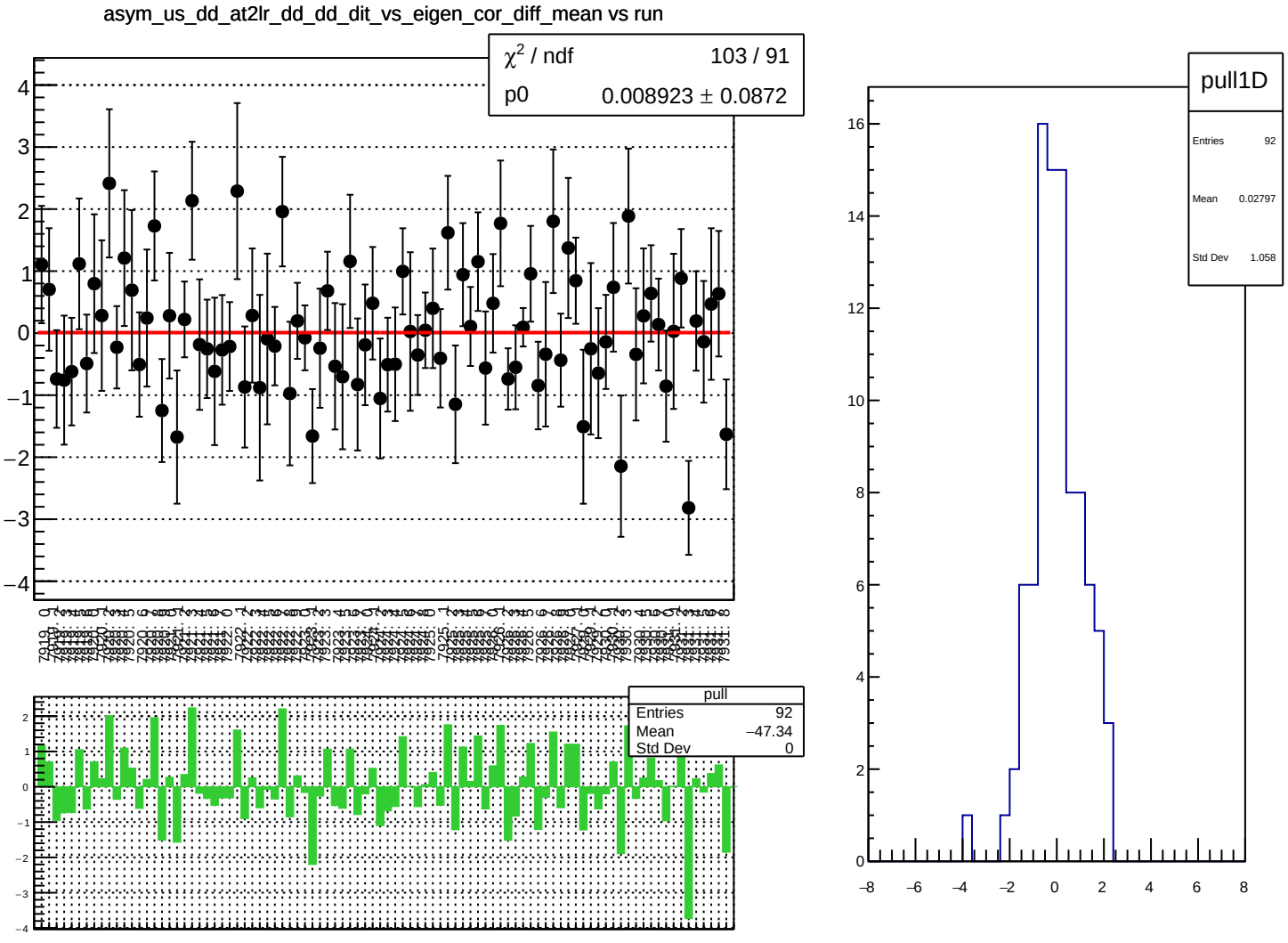

asym_us_dd_at2lr_dd_dd_rms vs run
χ^2 / ndf 1097 / 91
p0 2194 ± 1.643
2450
2400
2350
2300
2250
2200
2150
2100
2050

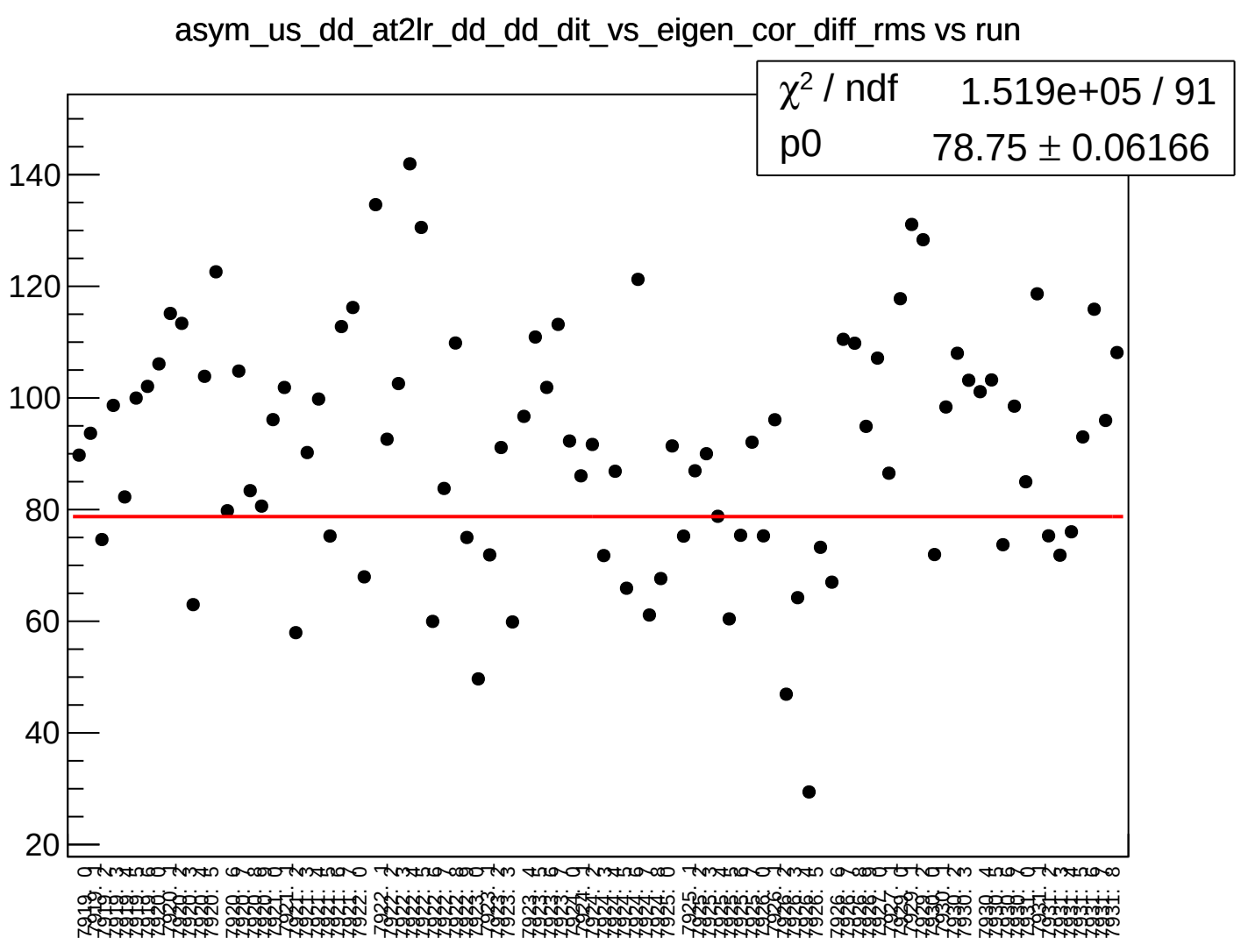

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 90.59 / 91
p0 −1.284e−14 ± 2.682e−13
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 92
Mean 55.36
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.04874
Std Dev 0.9911
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

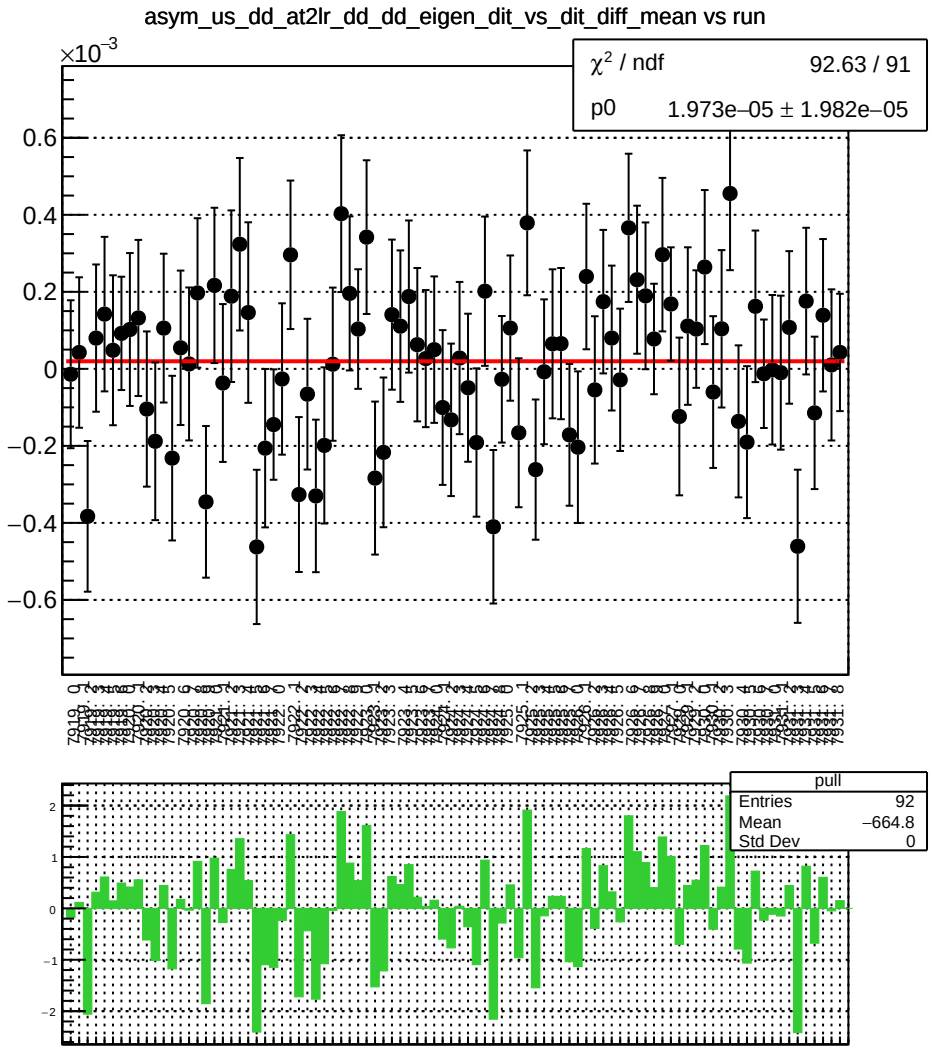

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.744e+05 / 91
p0 1.705e−10 ± 1.897e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

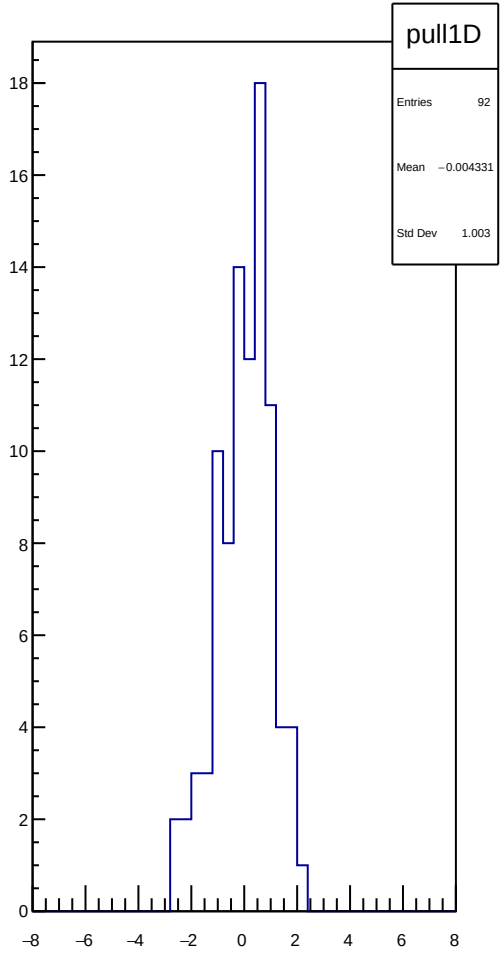

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 103 / 91
p0 0.008923 ± 0.0872
pull
Entries 92
Mean −47.34
Std Dev 0
pull1D
Entries 92
Mean 0.02797
Std Dev 1.058

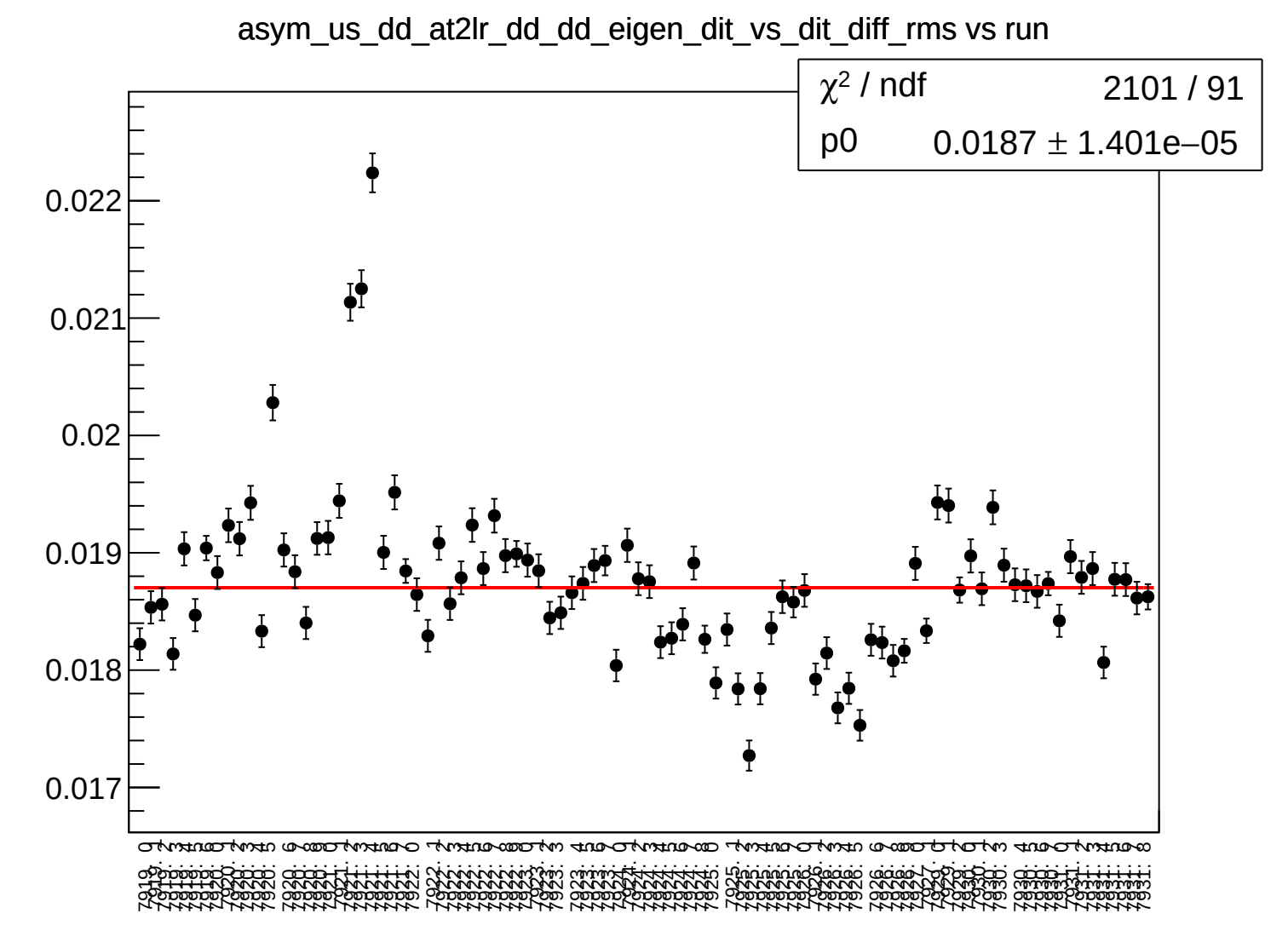

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.519e+05 / 91
p0 78.75 ± 0.06166
140
120
100
80
60
40
20

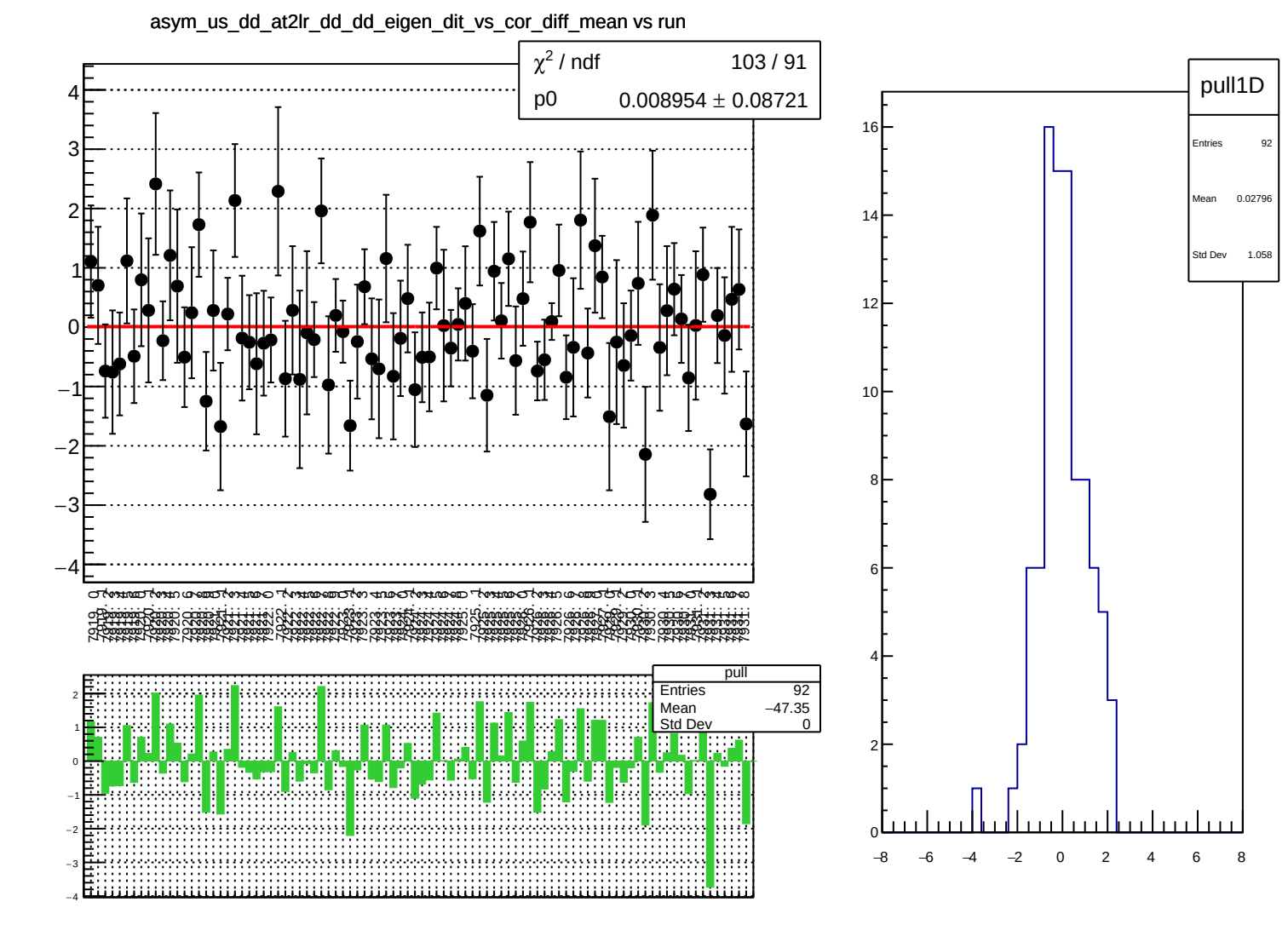

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103 / 91
p0 0.008923 ± 0.0872
pull
Entries 92
Mean −47.34
Std Dev 0
pull1D
Entries 92
Mean 0.02797
Std Dev 1.058

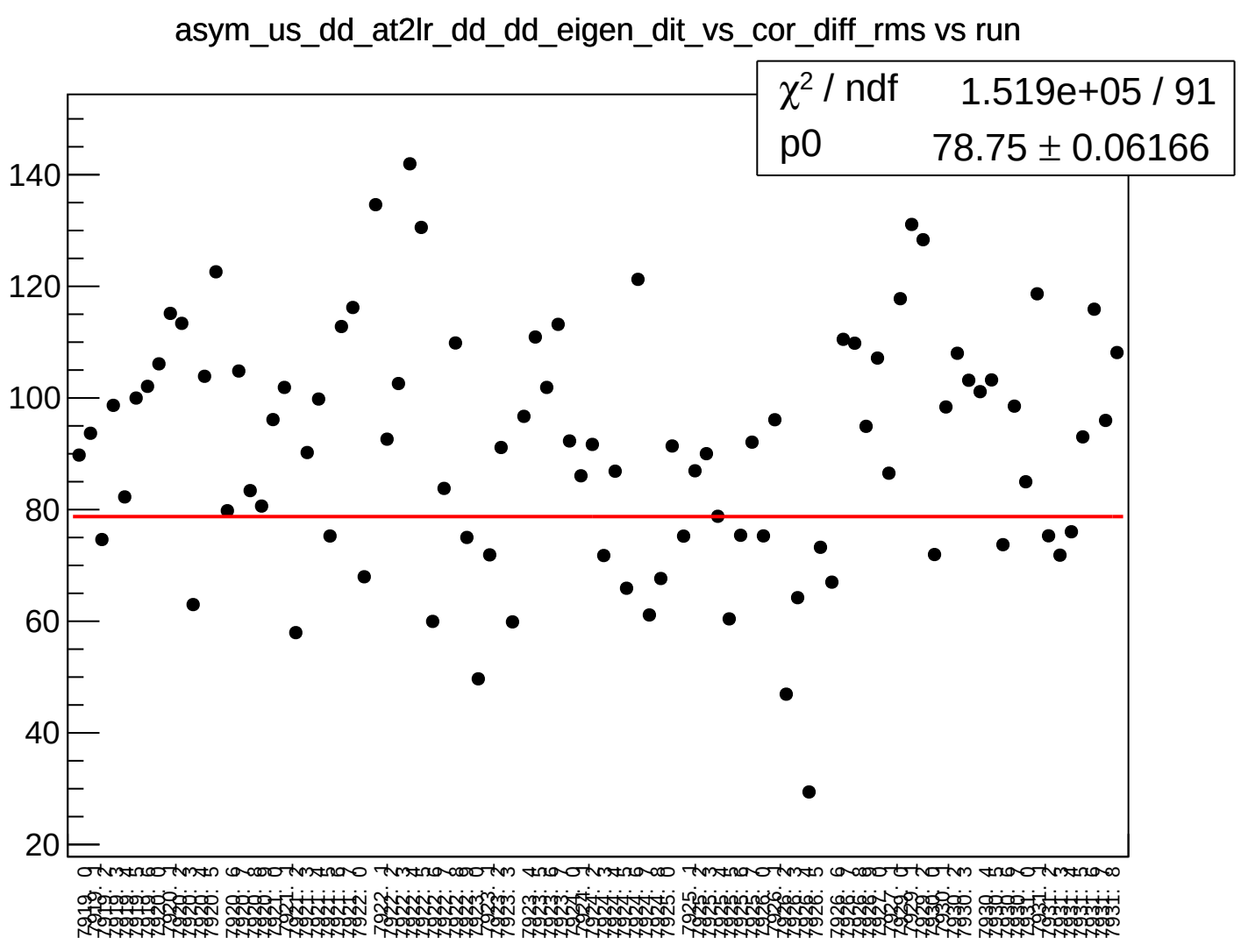

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.519e+05 / 91
p0 78.75 ± 0.06166
140
120
100
80
60
40
20

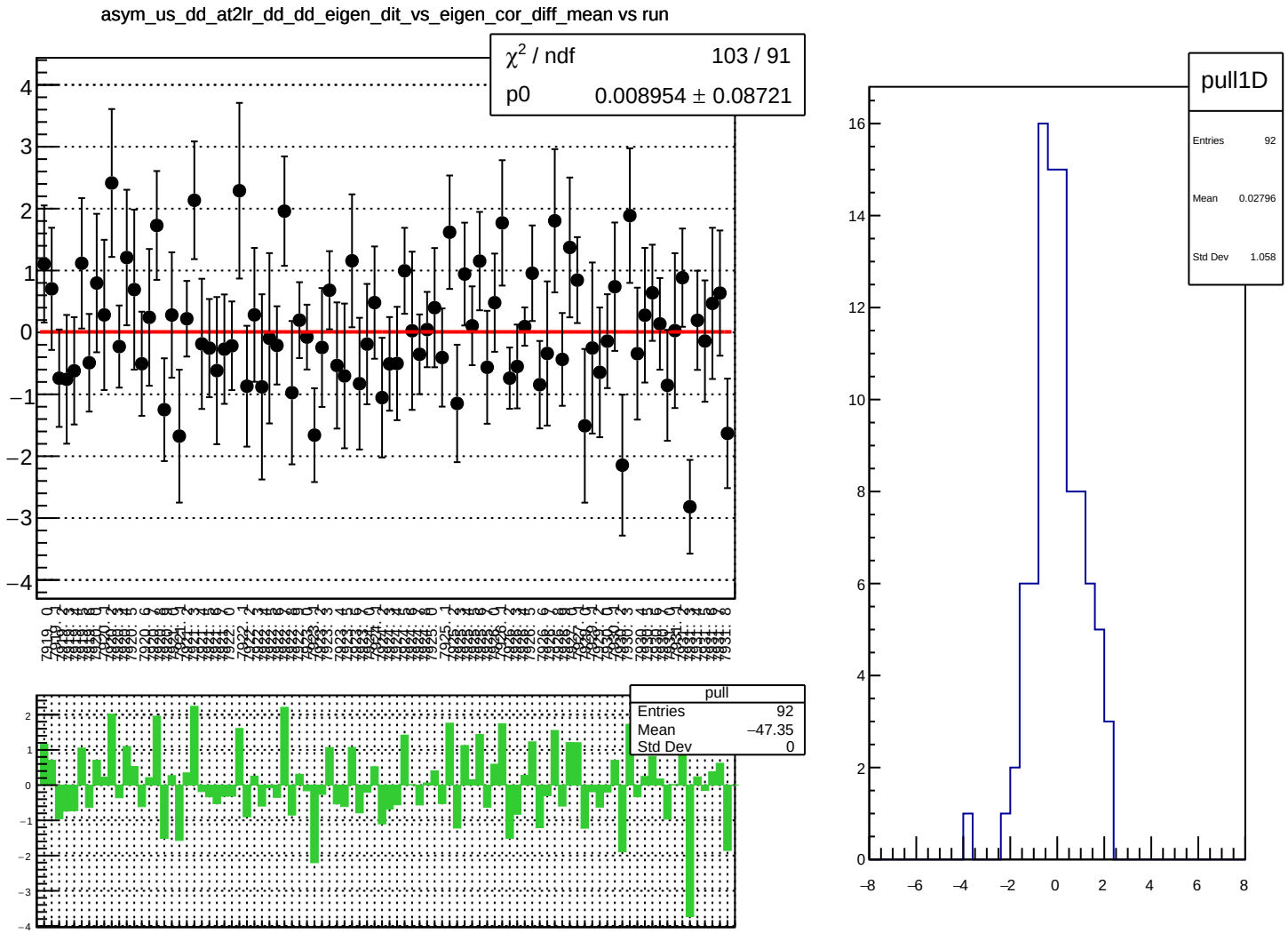

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.63 / 91
p0 1.973e−05 ± 1.982e−05
pull
Entries 92
Mean −664.8
Std Dev 0

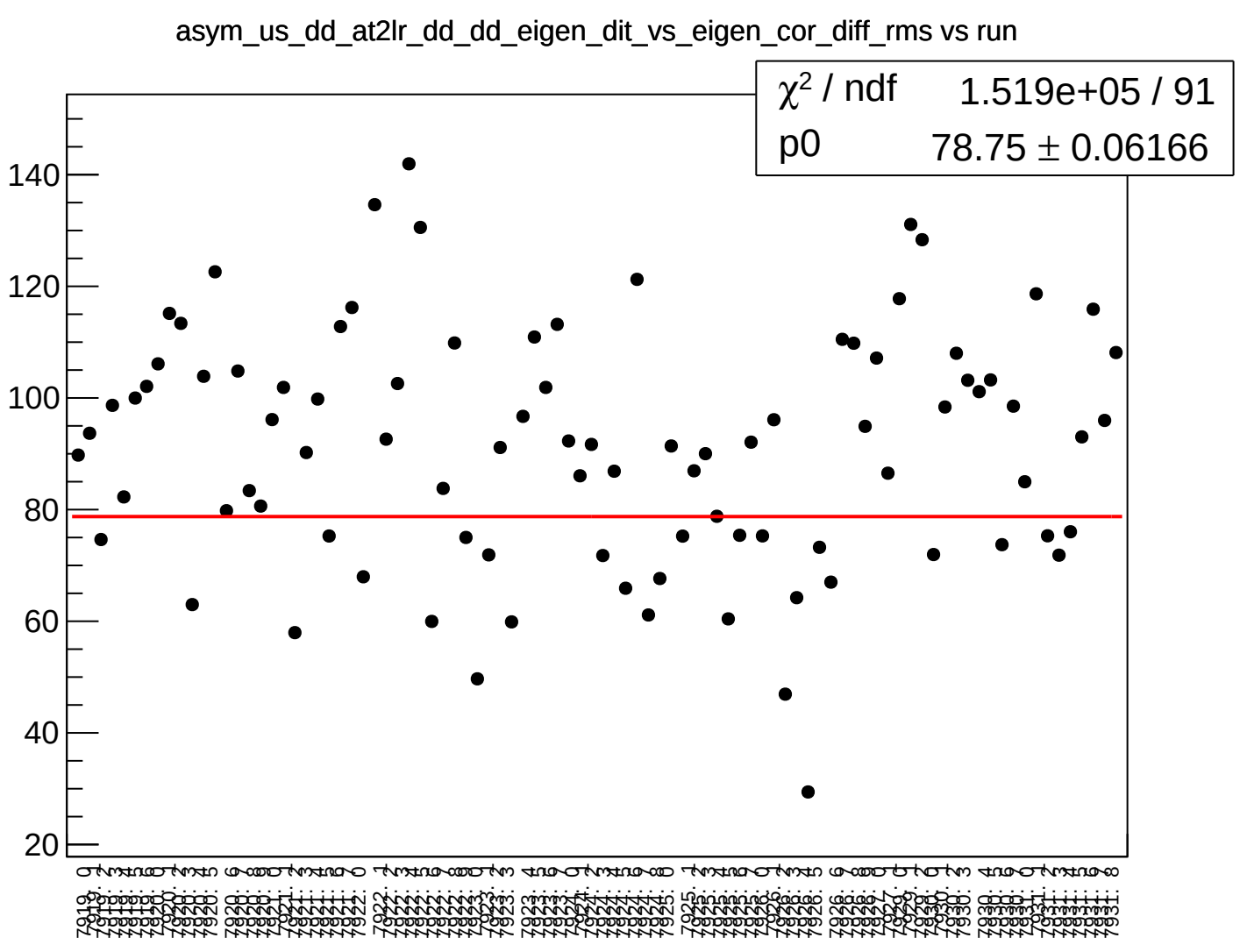

pull1D
Entries 92
Mean −0.004331
Std Dev 1.003

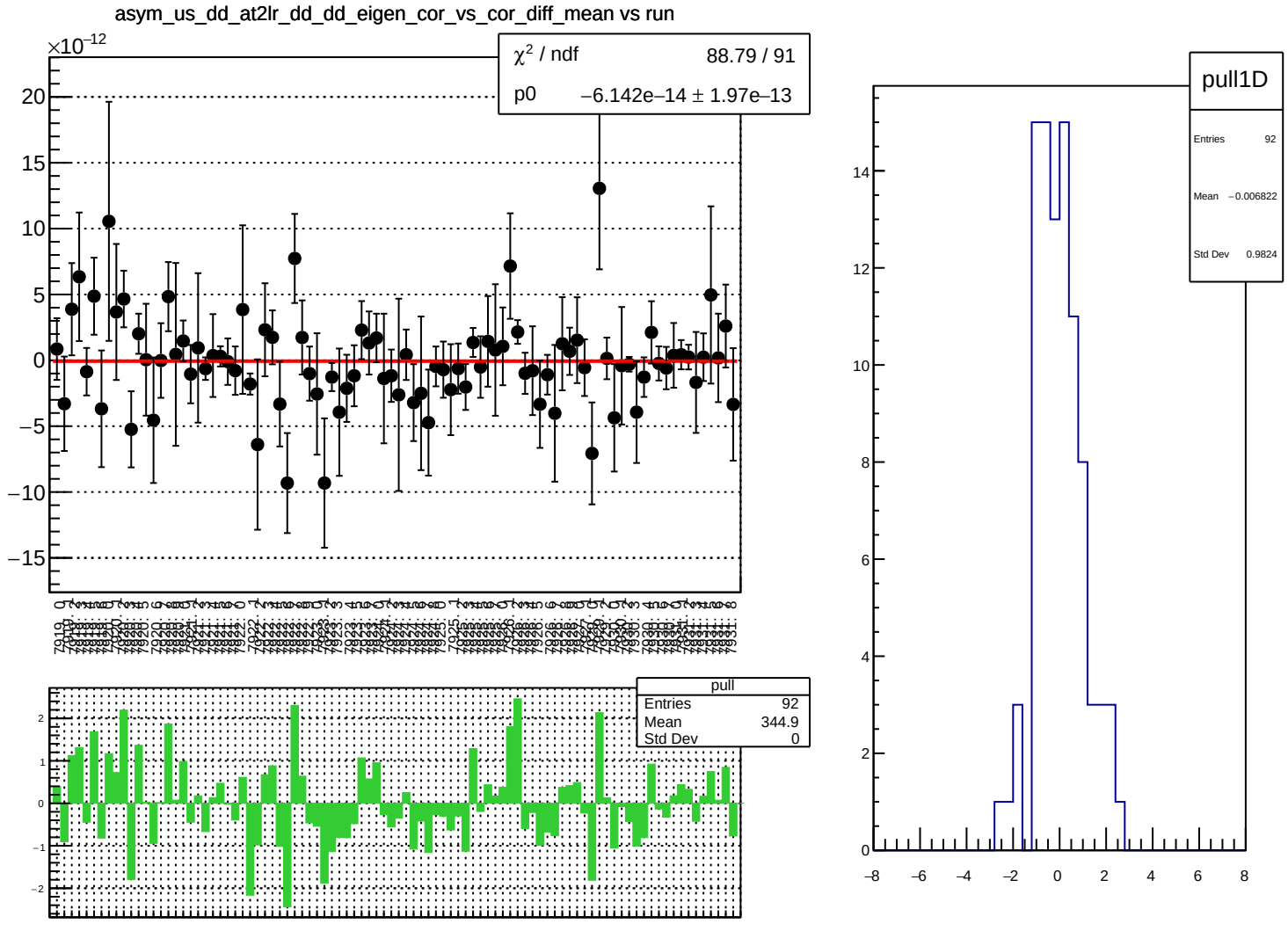

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2101 / 91
p0 0.0187 ± 1.401e−05
0.022
0.021
0.02
0.019
0.018
0.017

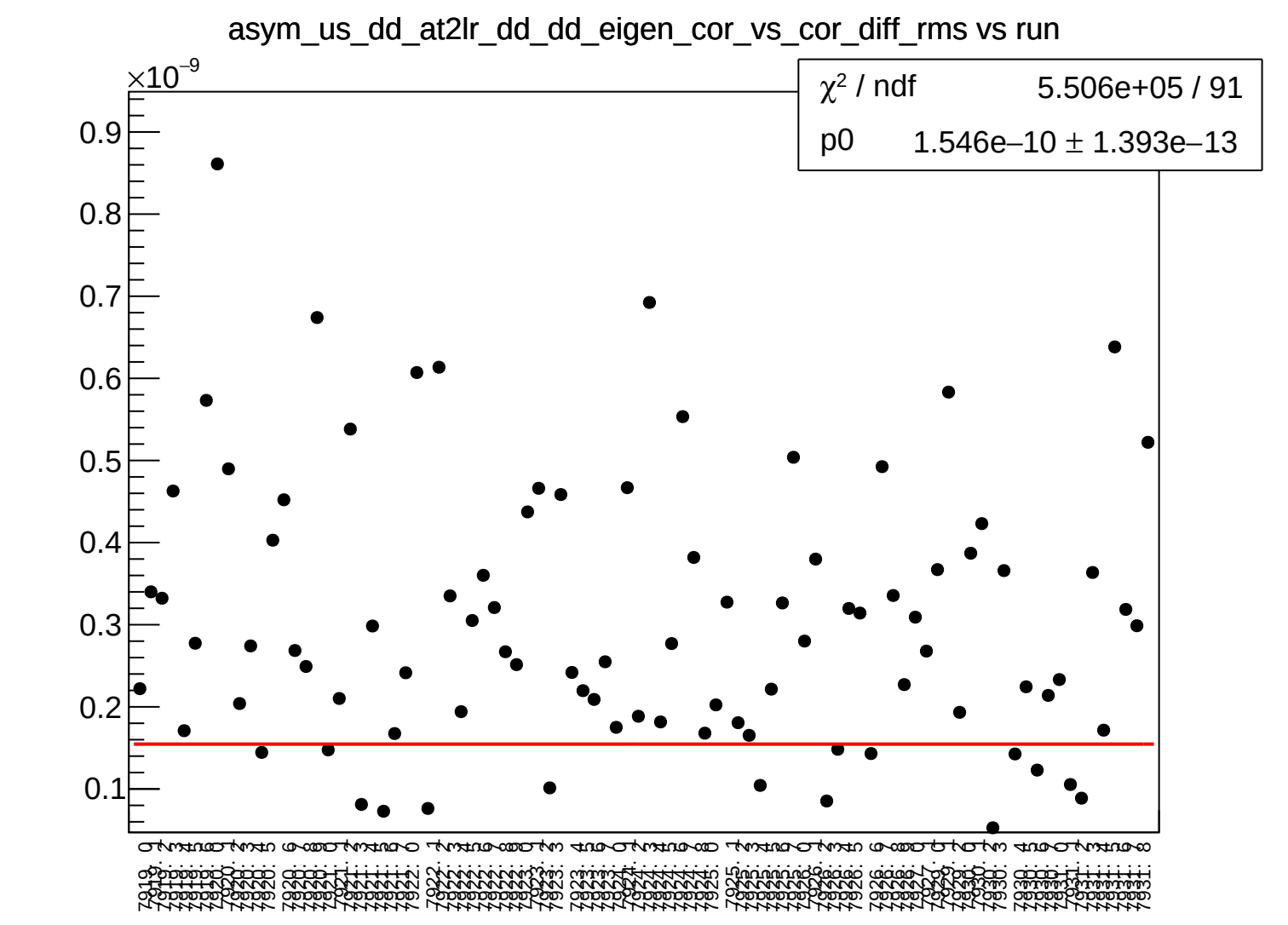

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 103 / 91
p0 0.008954 ± 0.08721
pull
Entries 92
Mean −47.35
Std Dev 0
pull1D
Entries 92
Mean 0.02796
Std Dev 1.058

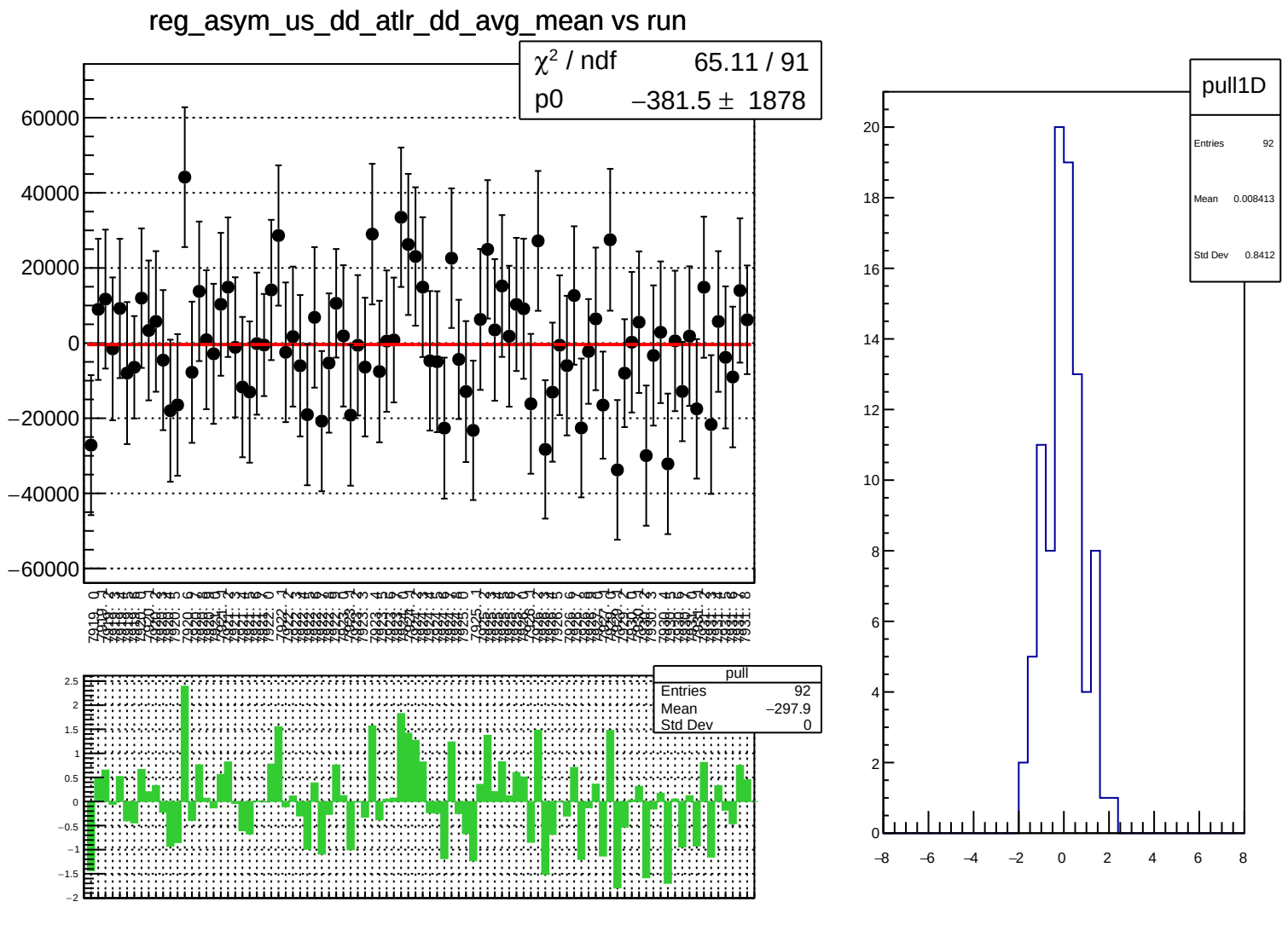

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.519e+05 / 91
p0 78.75 ± 0.06166
140
120
100
80
60
40
20

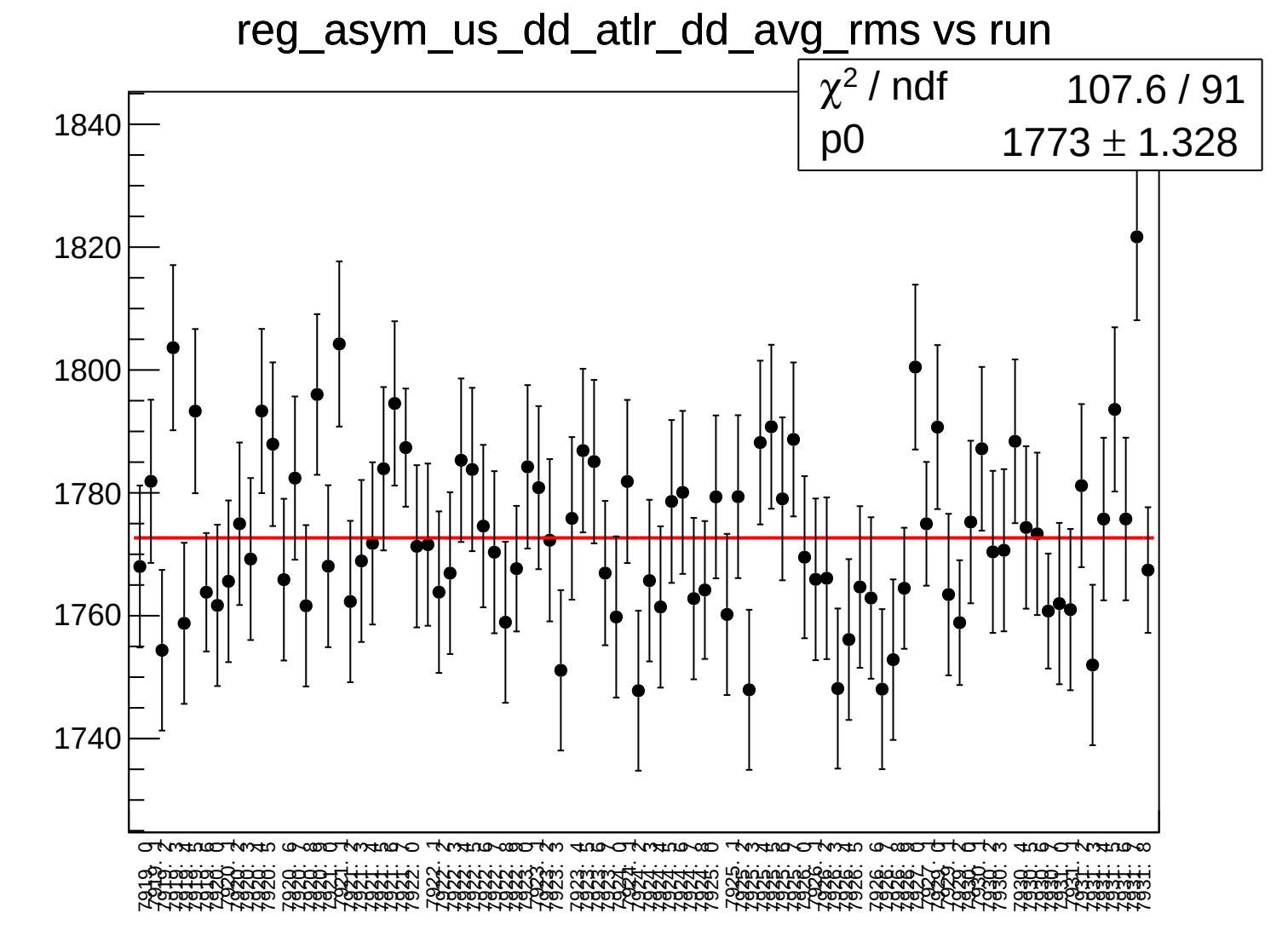

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103 / 91
p0 0.008954 ± 0.08721
pull
Entries 92
Mean −47.35
Std Dev 0
pull1D
Entries 92
Mean 0.02796
Std Dev 1.058

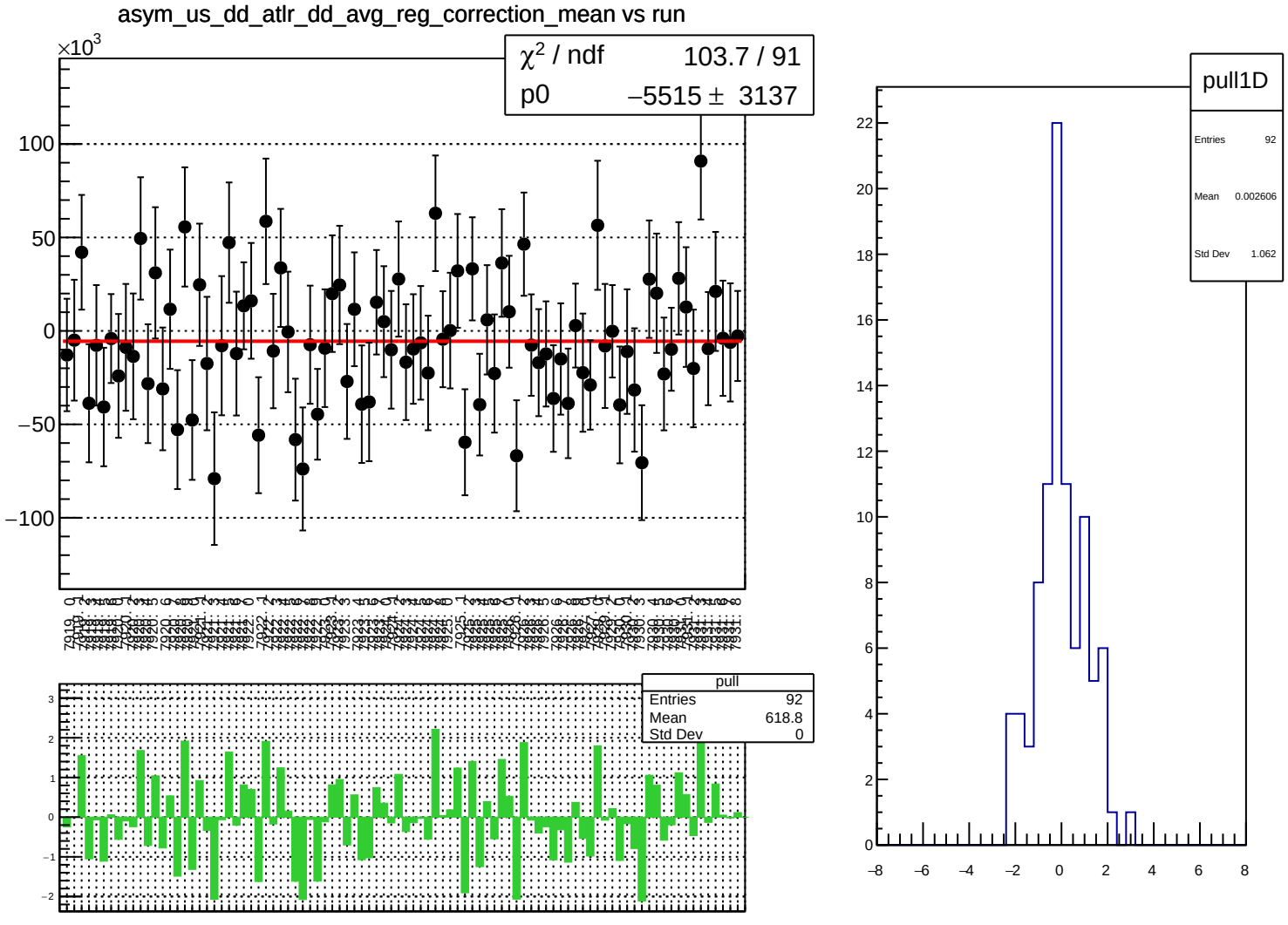

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.519e+05 / 91
p0 78.75 ± 0.06166
140
120
100
80
60
40
20

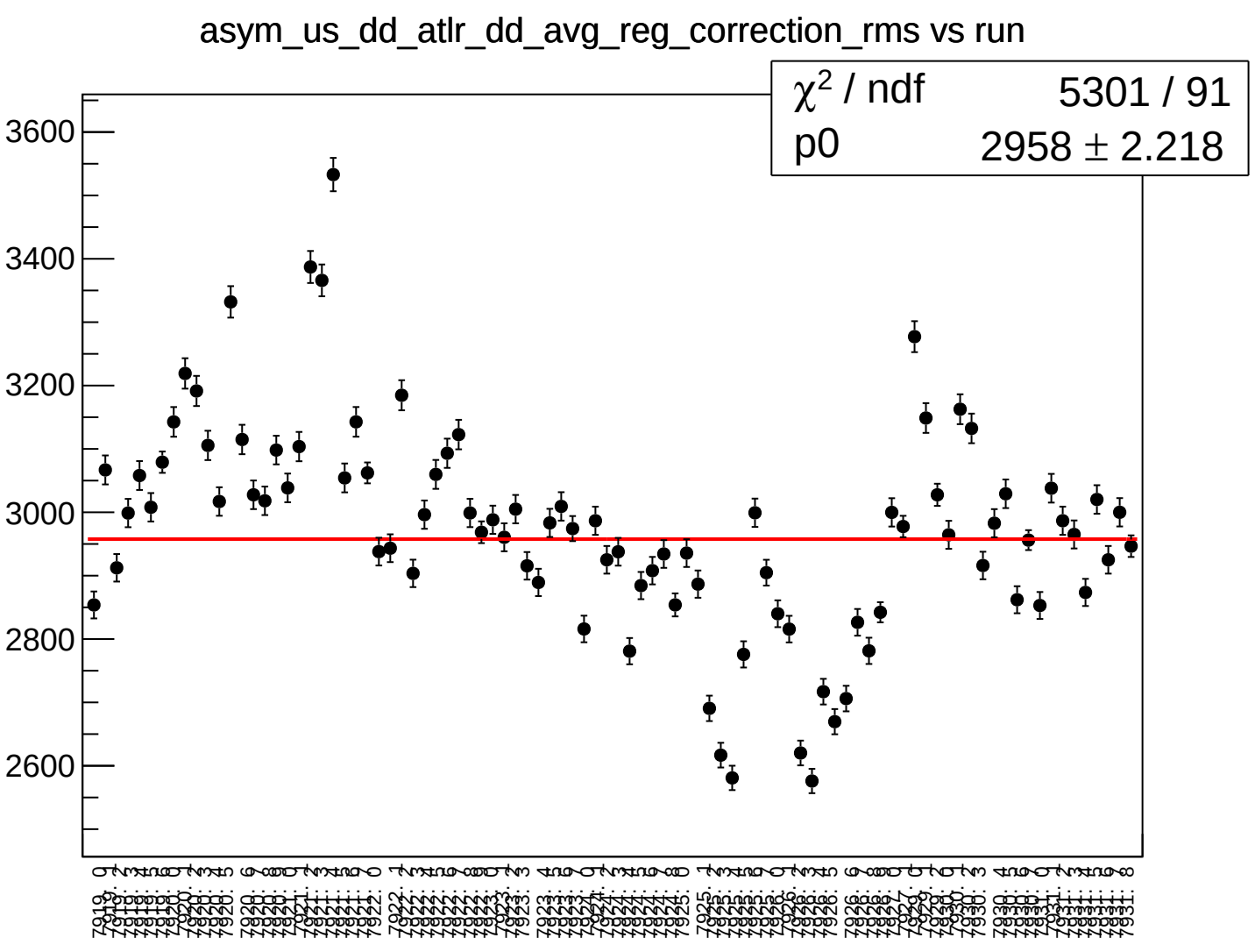

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.79 / 91
p0 −6.142e−14 ± 1.97e−13
pull
Entries 92
Mean 344.9
Std Dev 0
pull1D
Entries 92
Mean −0.006822
Std Dev 0.9824

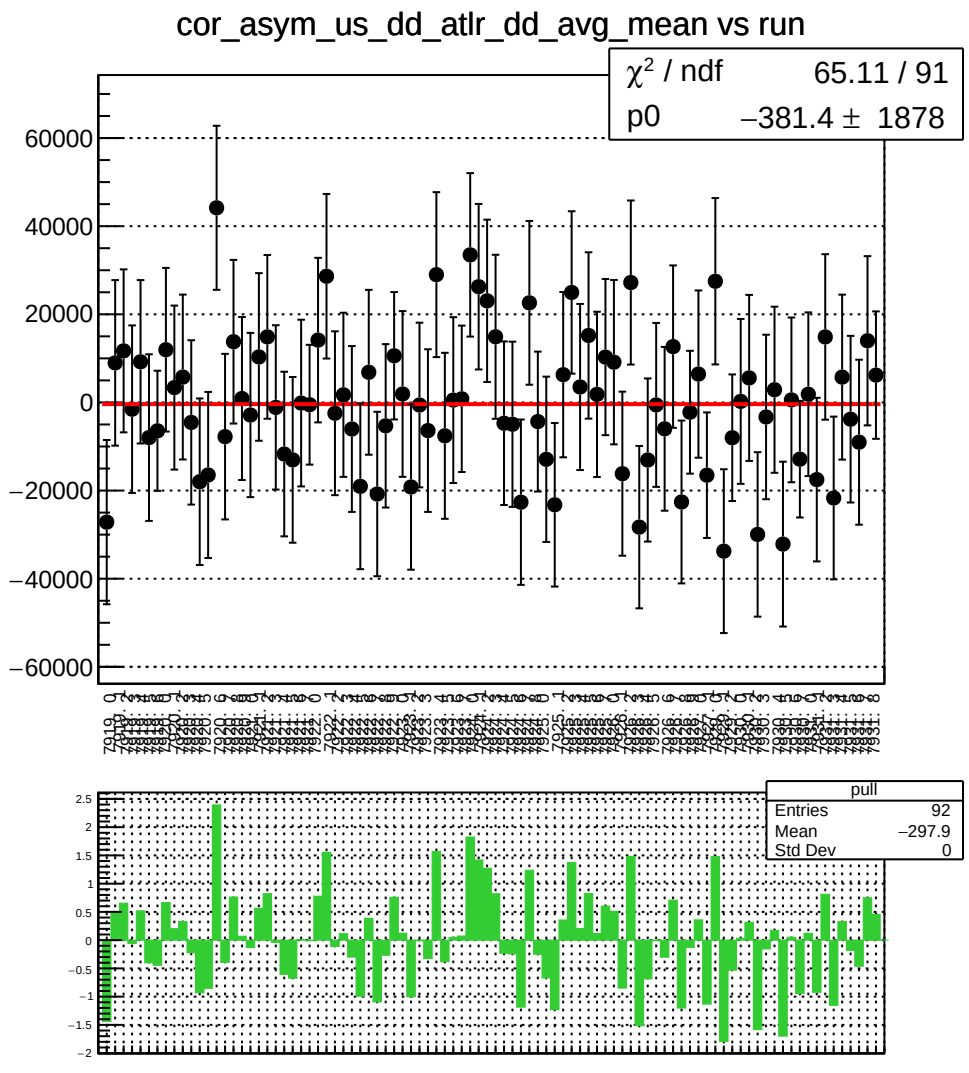

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.506e+05 / 91
p0 1.546e−10 ± 1.393e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

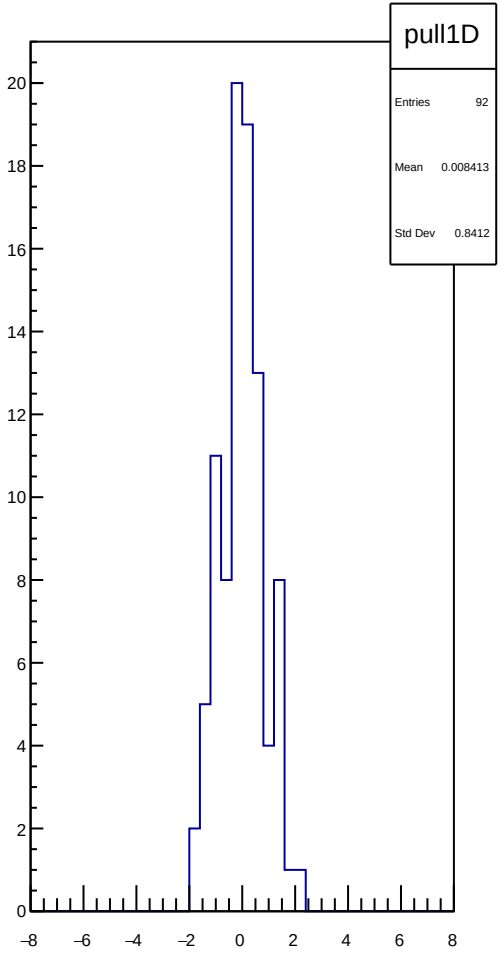

reg_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 65.11 / 91
p0 −381.5 ± 1878
pull
Entries 92
Mean −297.9
Std Dev 0
pull1D
Entries 92
Mean 0.008413
Std Dev 0.8412

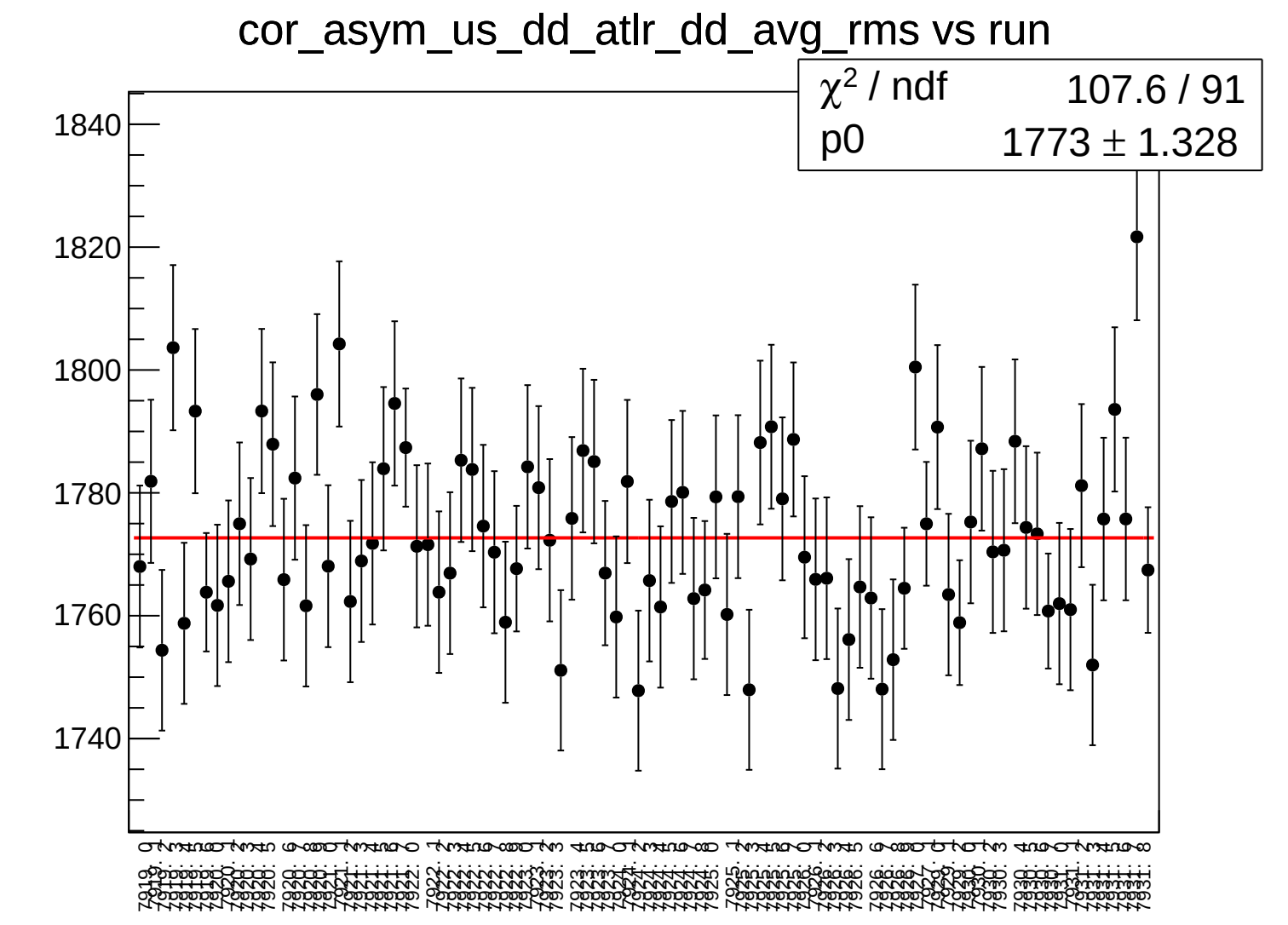

reg_asym_us_dd_atlr_dd_avg_rms vs run
χ^2 / ndf 107.6 / 91
p0 1773 ± 1.328
1840
1820
1800
1780
1760
1740

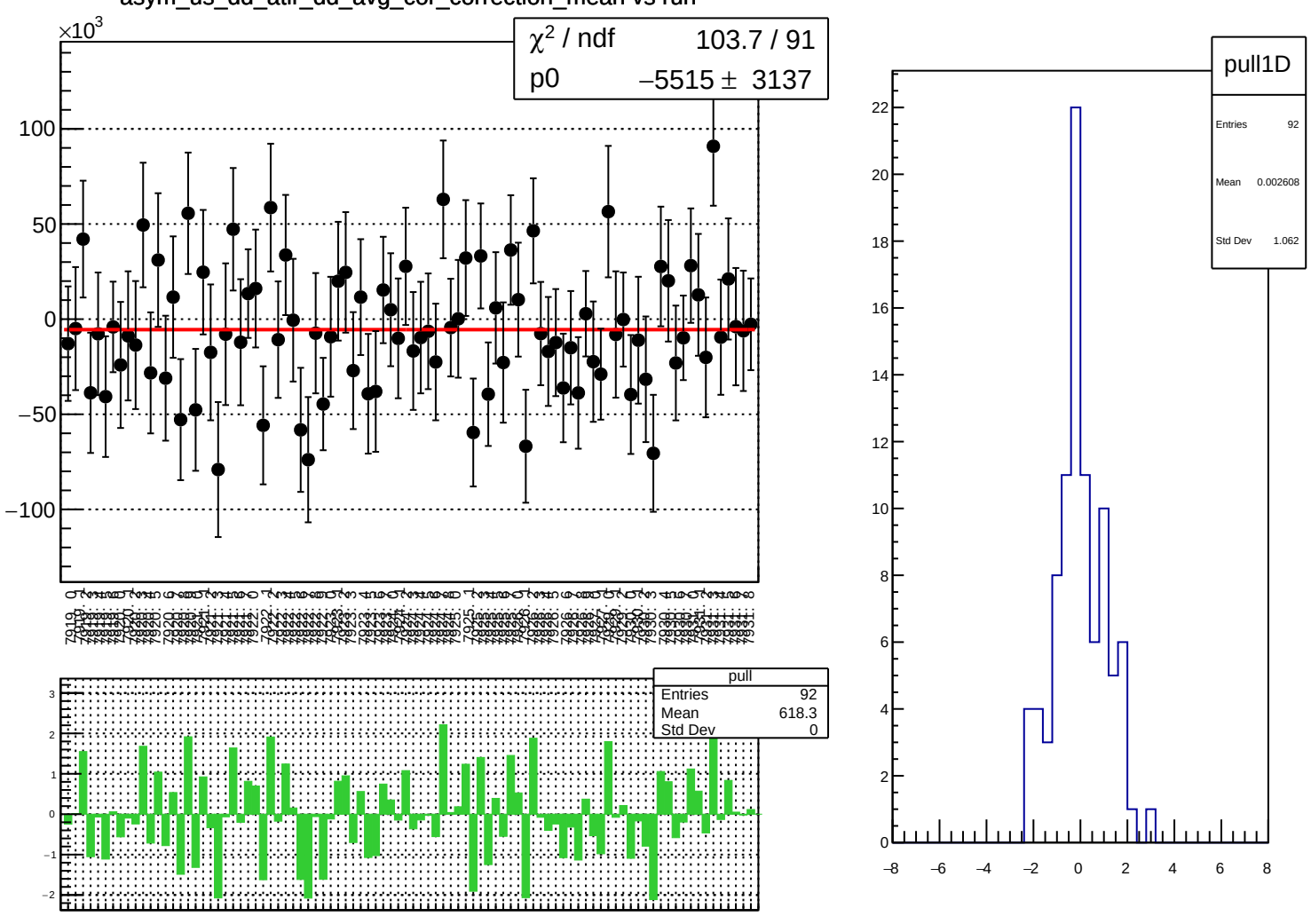

asym_us_dd_atlr_dd_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 103.7 / 91
p0 −5515 ± 3137
100
50
0
−50
−100
pull
Entries 92
Mean 618.8
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.002606
Std Dev 1.062
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

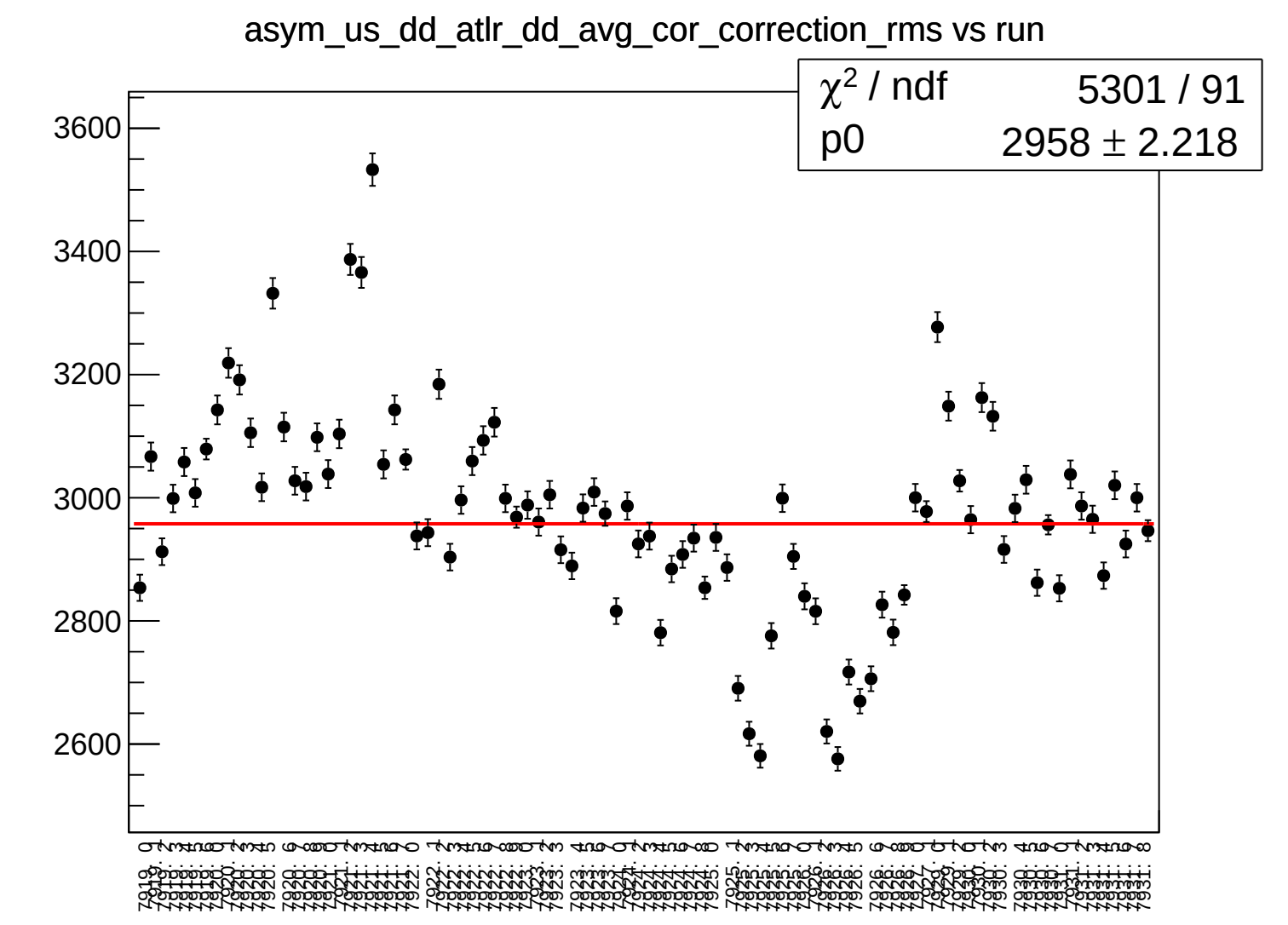

asym_us_dd_atlr_dd_avg_reg_correction_rms vs run
χ² / ndf 5301 / 91
p0 2958 ± 2.218
3600
3400
3200
3000
2800
2600

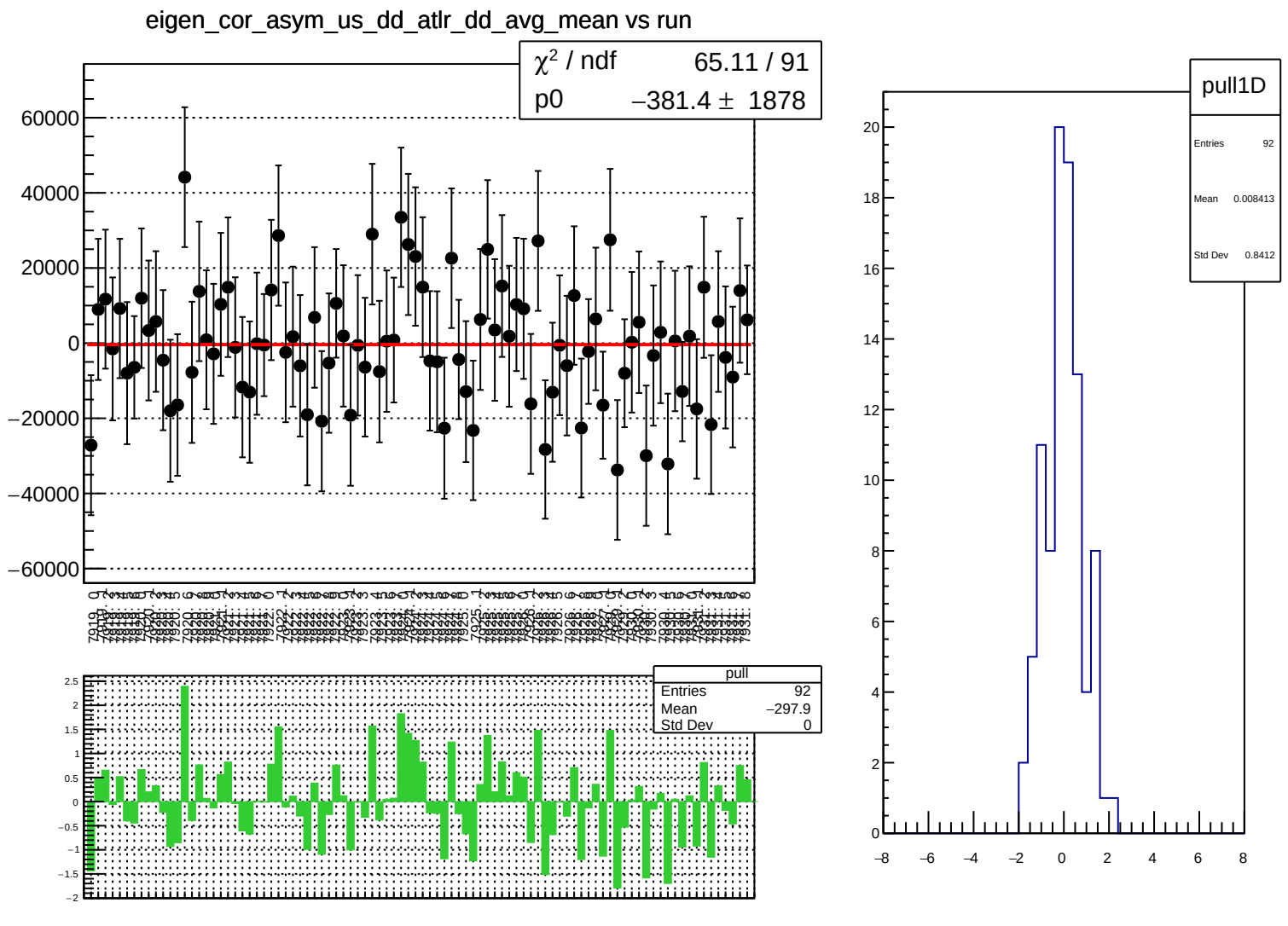

cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 65.11 / 91
p0 −381.4 ± 1878
pull
Entries 92
Mean −297.9
Std Dev 0

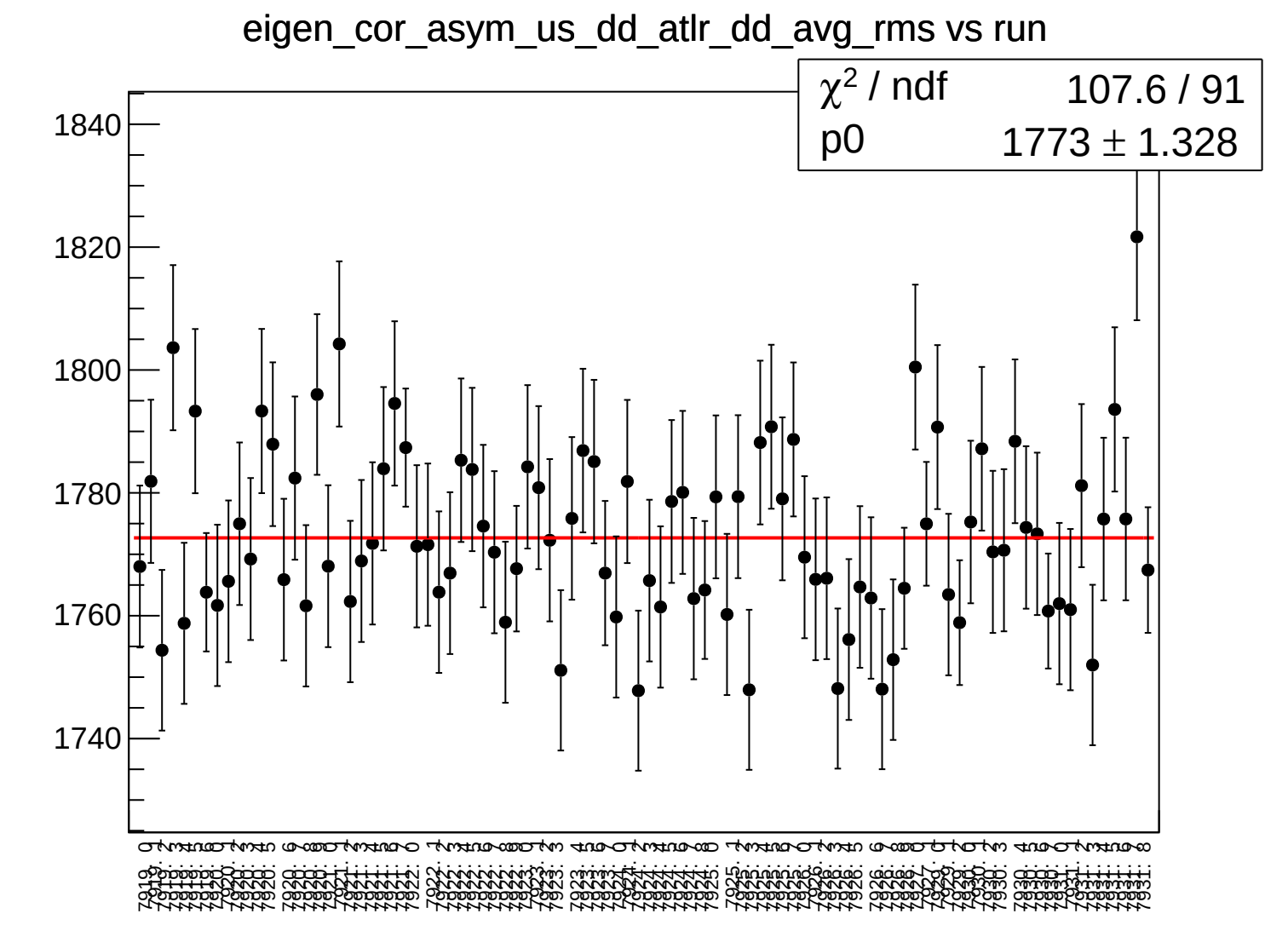

pull1D
Entries 92
Mean 0.008413
Std Dev 0.8412

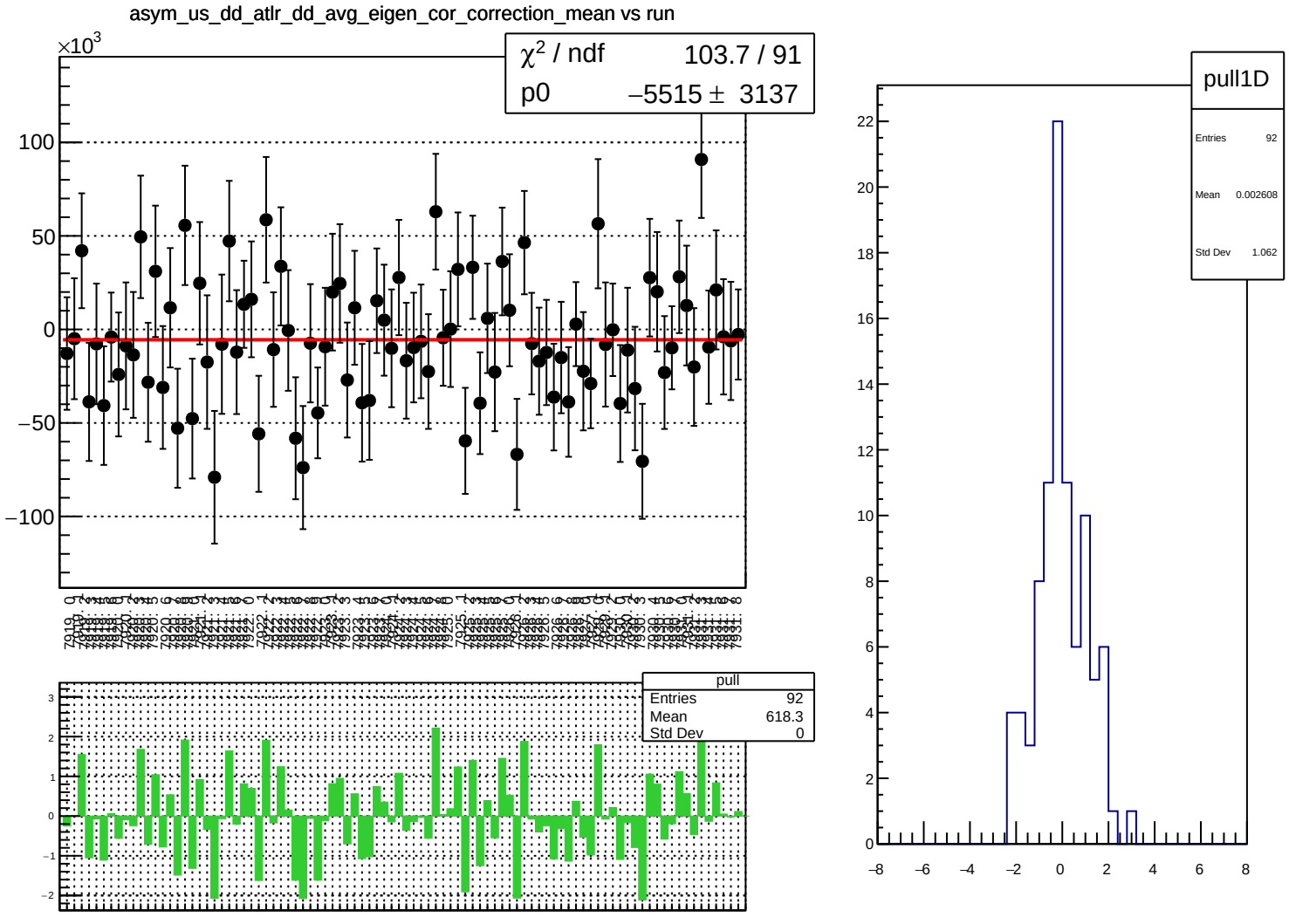

cor_asym_us_dd_atlr_dd_avg_rms vs run
χ^2 / ndf 107.6 / 91
p0 1773 ± 1.328
1840
1820
1800
1780
1760
1740

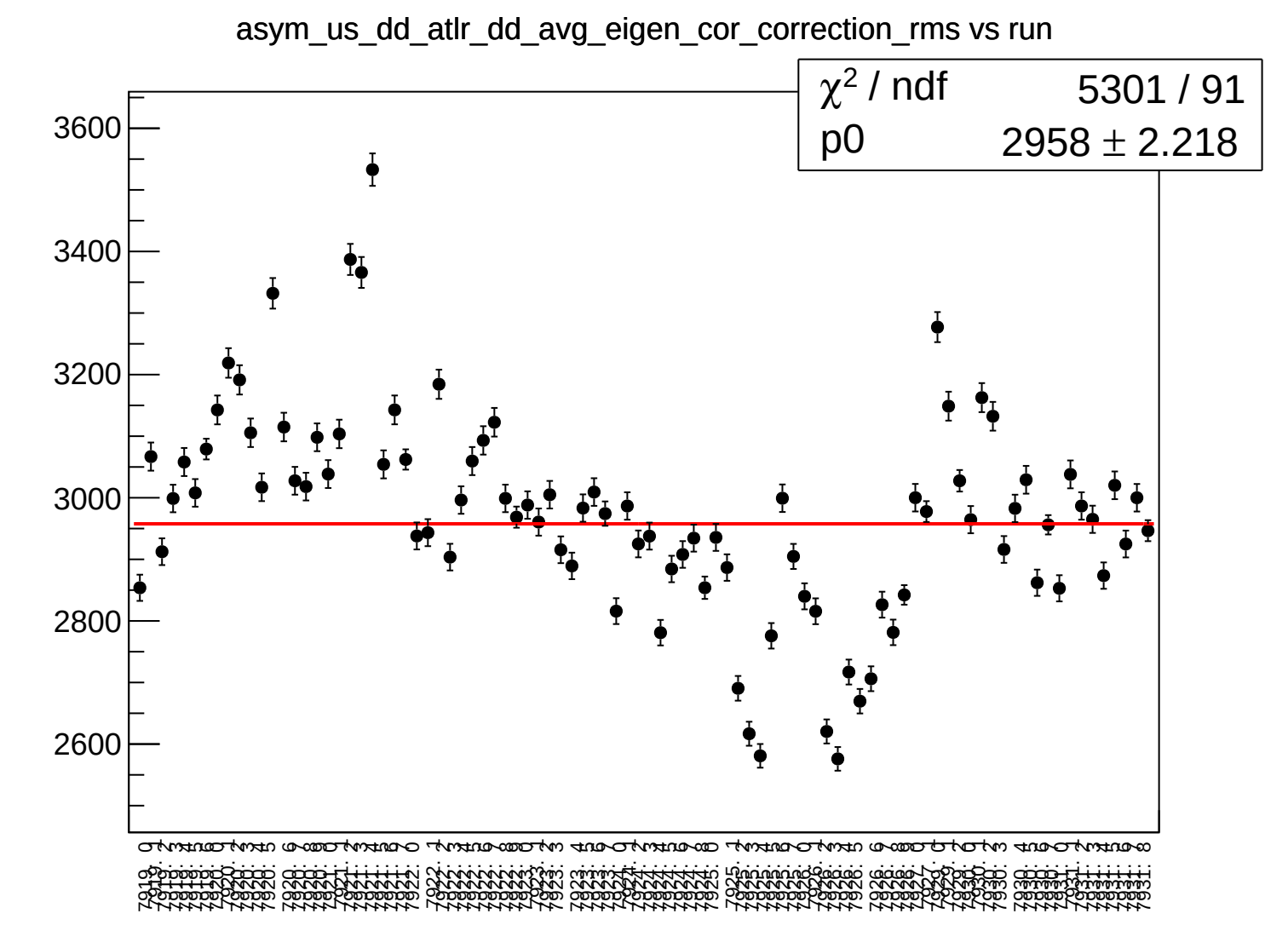

asym_us_dd_atlr_dd_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 103.7 / 91
p0 −5515 ± 3137
100
50
0
−50
−100
pull
Entries 92
Mean 618.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.002608
Std Dev 1.062
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

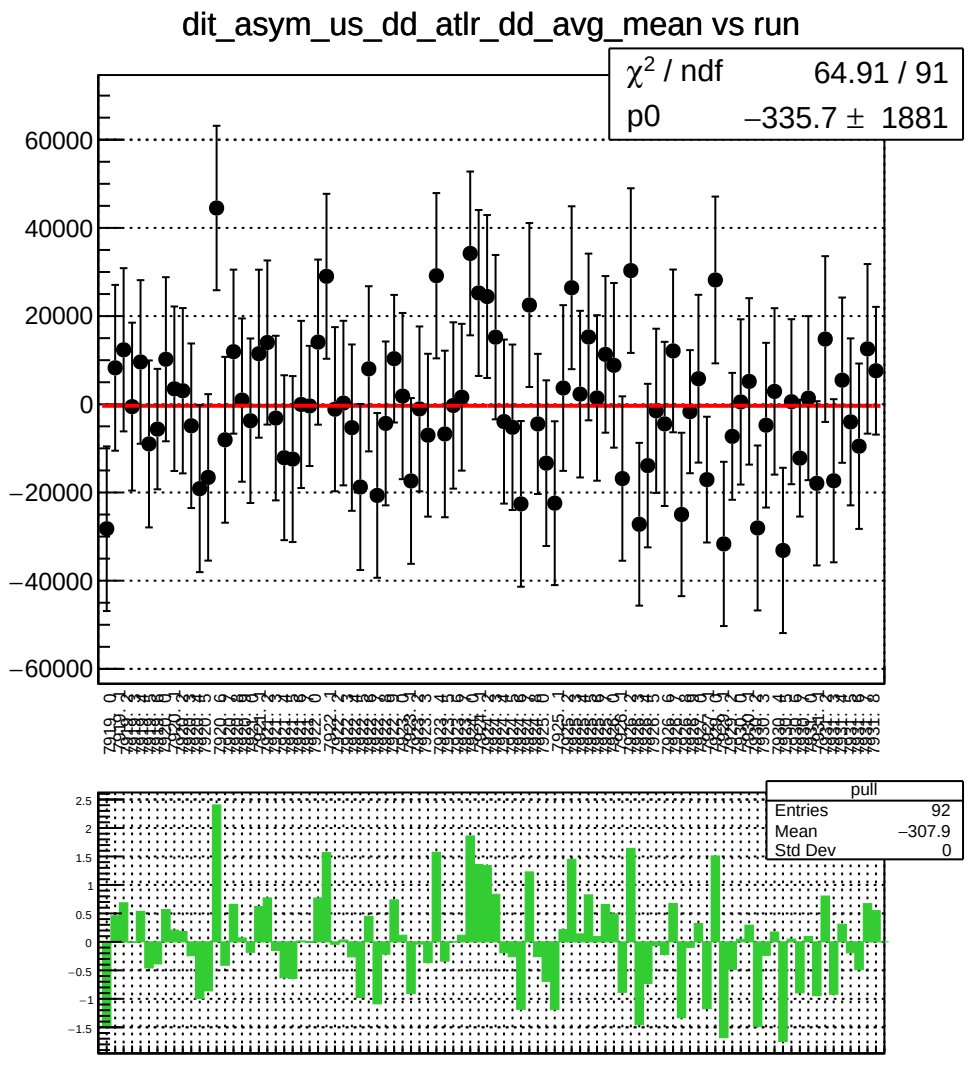

asym_us_dd_atlr_dd_avg_cor_correction_rms vs run
χ² / ndf 5301 / 91
p0 2958 ± 2.218
3600
3400
3200
3000
2800
2600

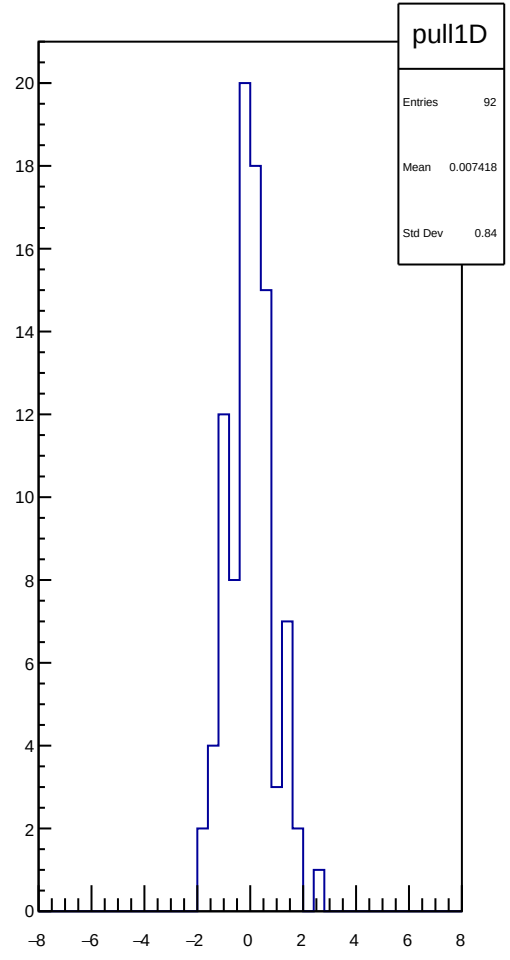

eigen_cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 65.11 / 91
p0 −381.4 ± 1878
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −297.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean 0.008413
Std Dev 0.8412
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

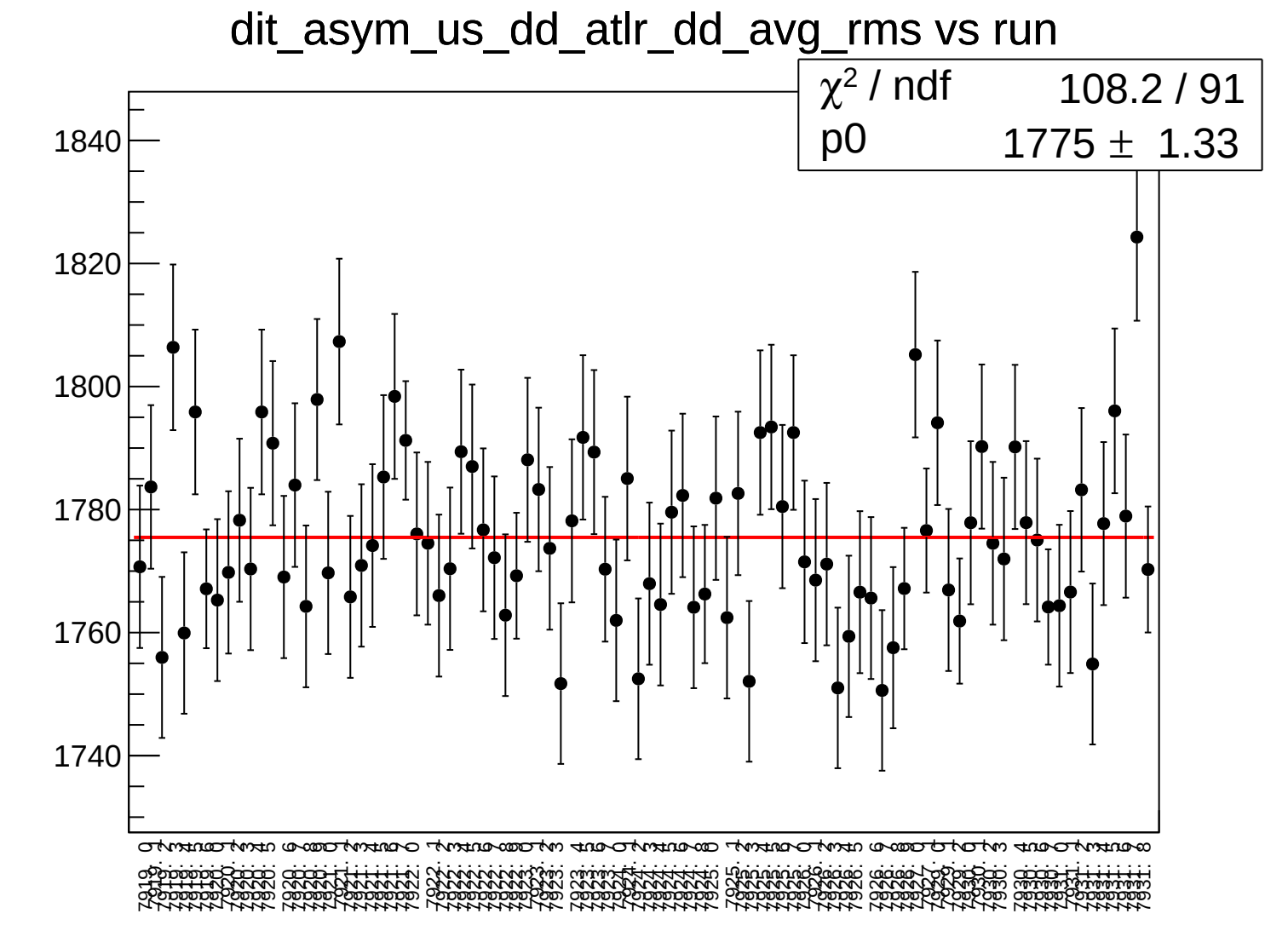

eigen_cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 107.6 / 91
p0 1773 ± 1.328
1840
1820
1800
1780
1760
1740

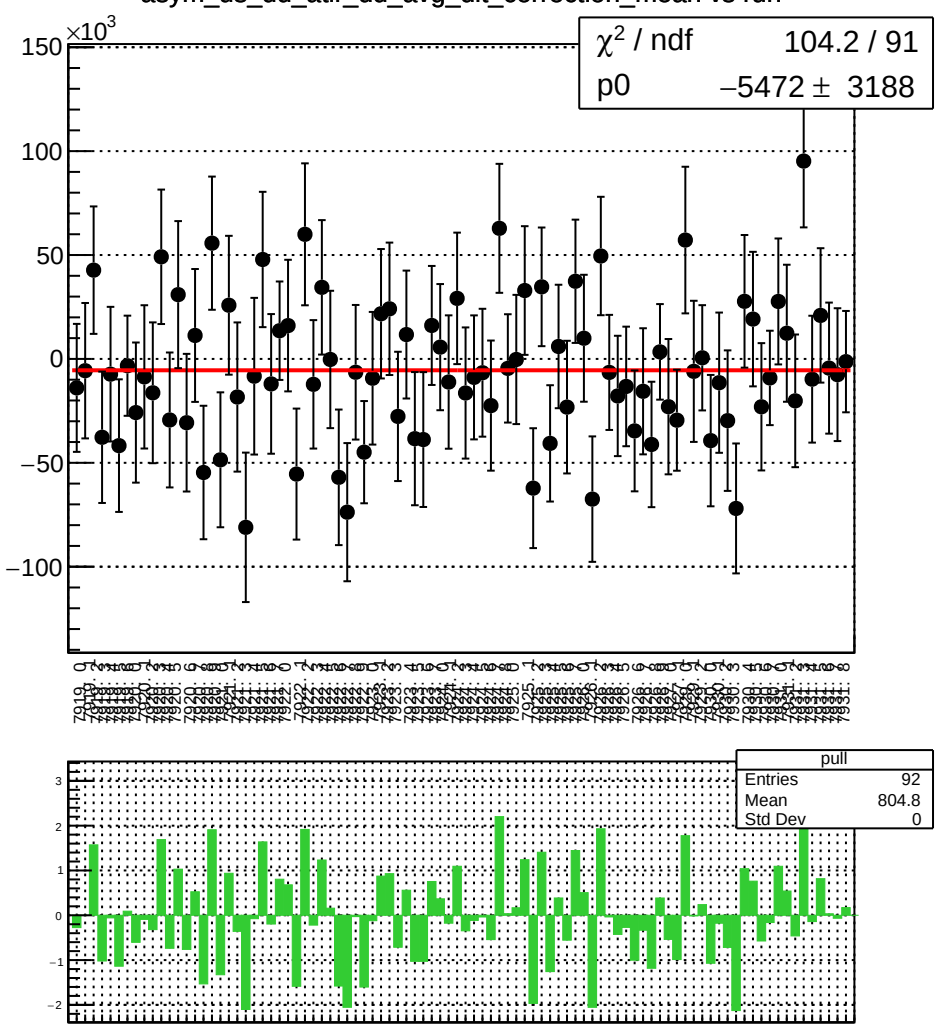

asym_us_dd_atlr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 103.7 / 91
p0 −5515 ± 3137
100
50
0
−50
−100
pull
Entries 92
Mean 618.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.002608
Std Dev 1.062
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

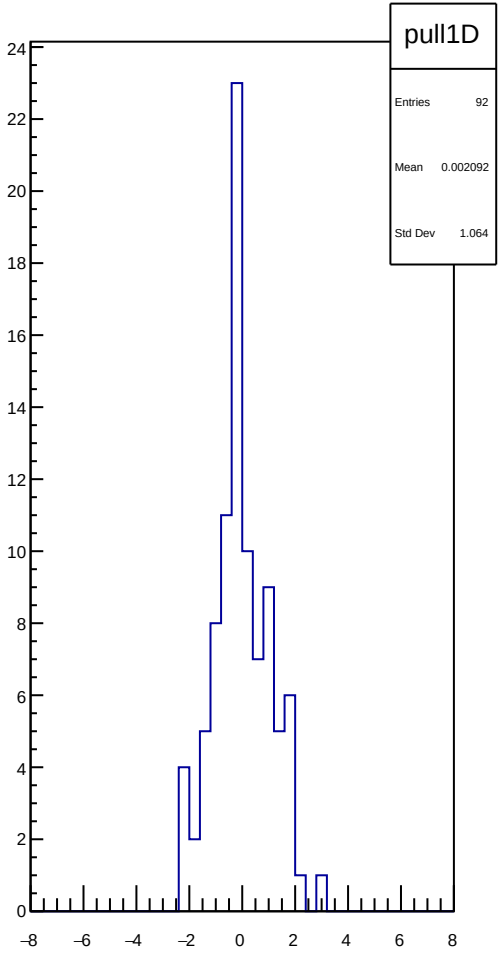

asym_us_dd_atlr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 5301 / 91
p0 2958 ± 2.218
3600
3400
3200
3000
2800
2600

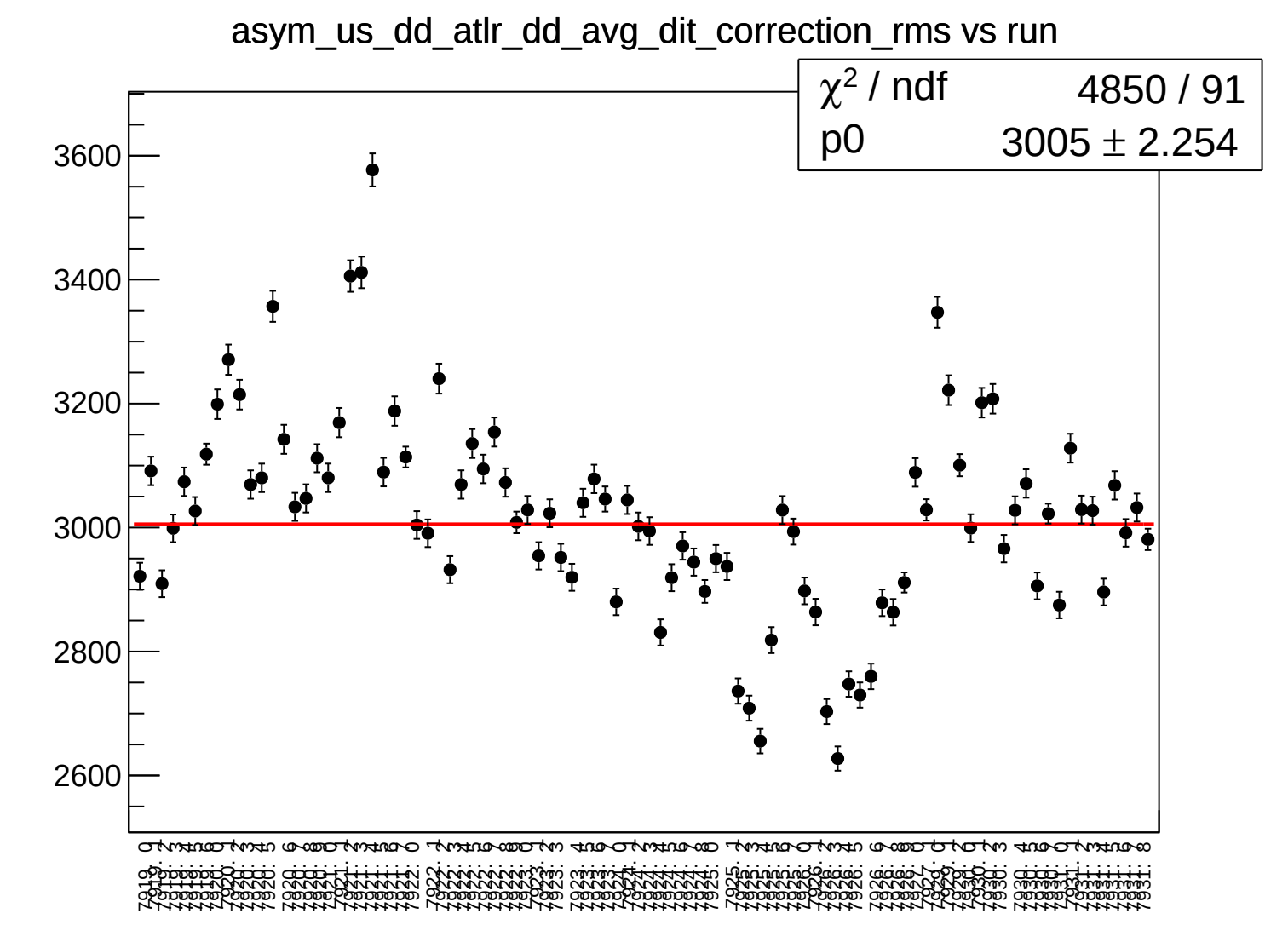

dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 64.91 / 91
p0 −335.7 ± 1881
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −307.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

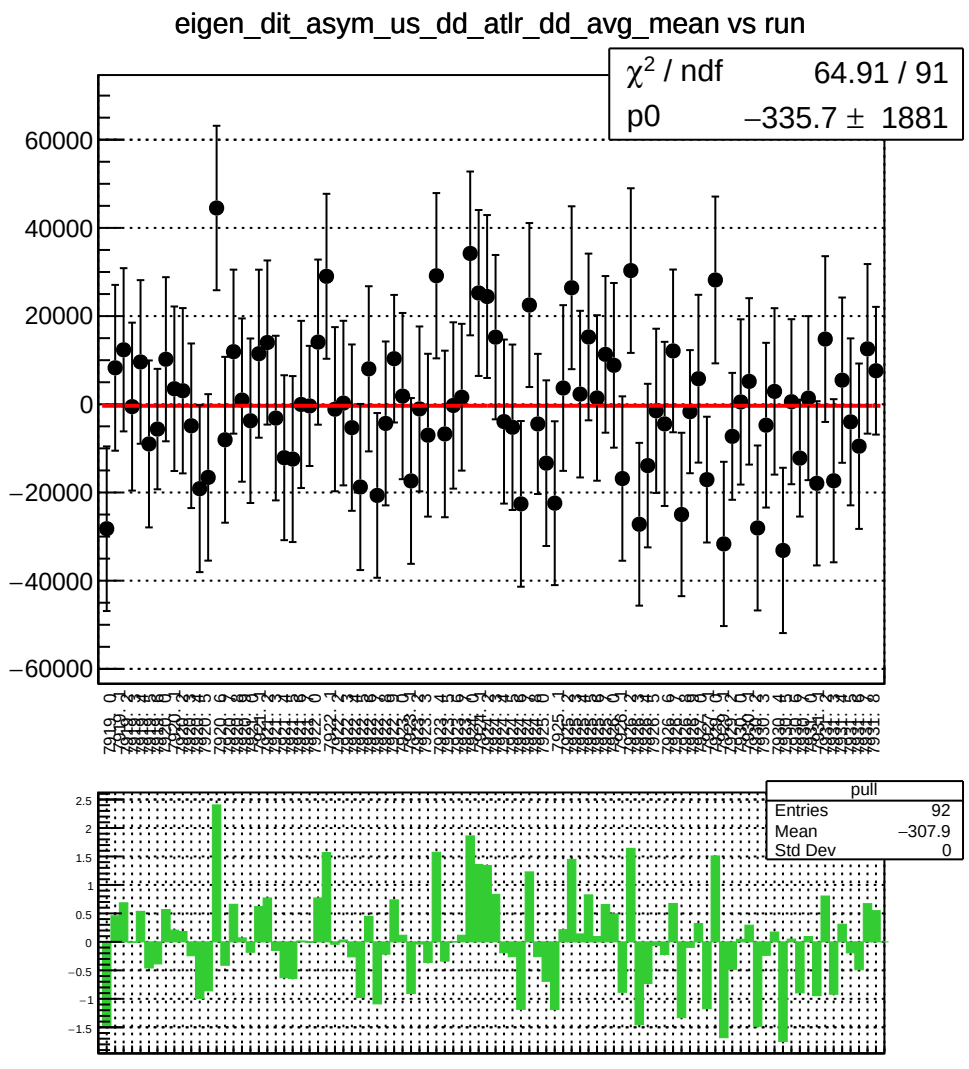

pull1D
Entries 92
Mean 0.007418
Std Dev 0.84
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

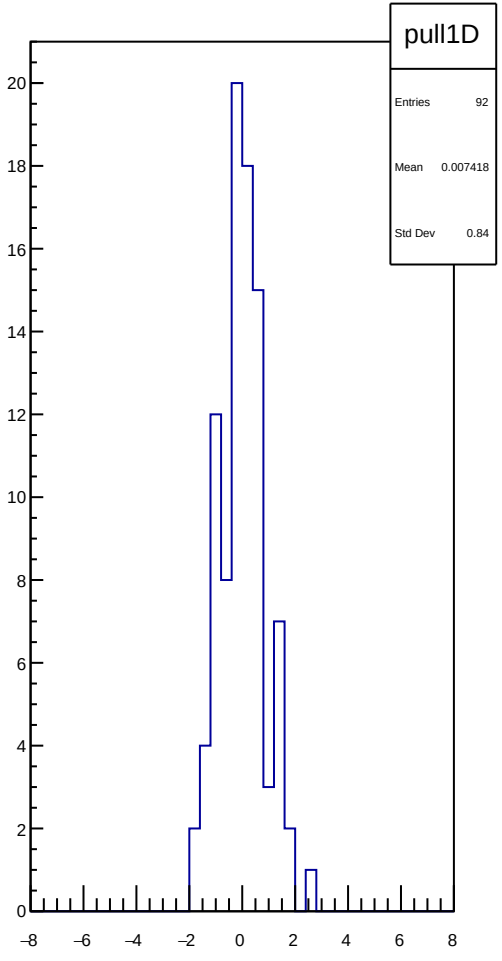

dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 108.2 / 91
p0 1775 ± 1.33
1840
1820
1800
1780
1760
1740

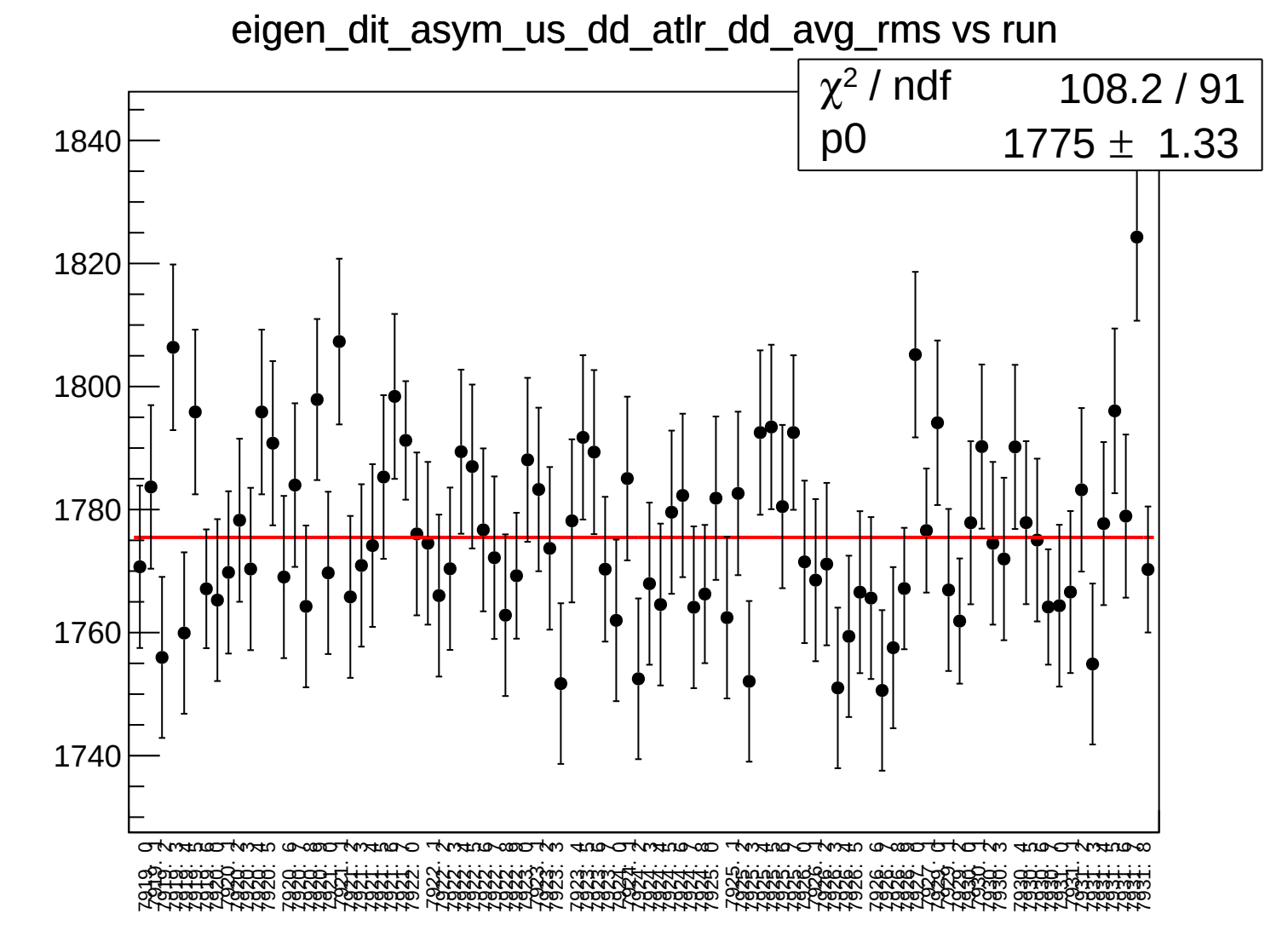

asym_us_dd_atlr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 104.2 / 91
p0 −5472 ± 3188
150
100
50
0
−50
−100
pull
Entries 92
Mean 804.8
Std Dev 0
3
2
1
0
−1
−2

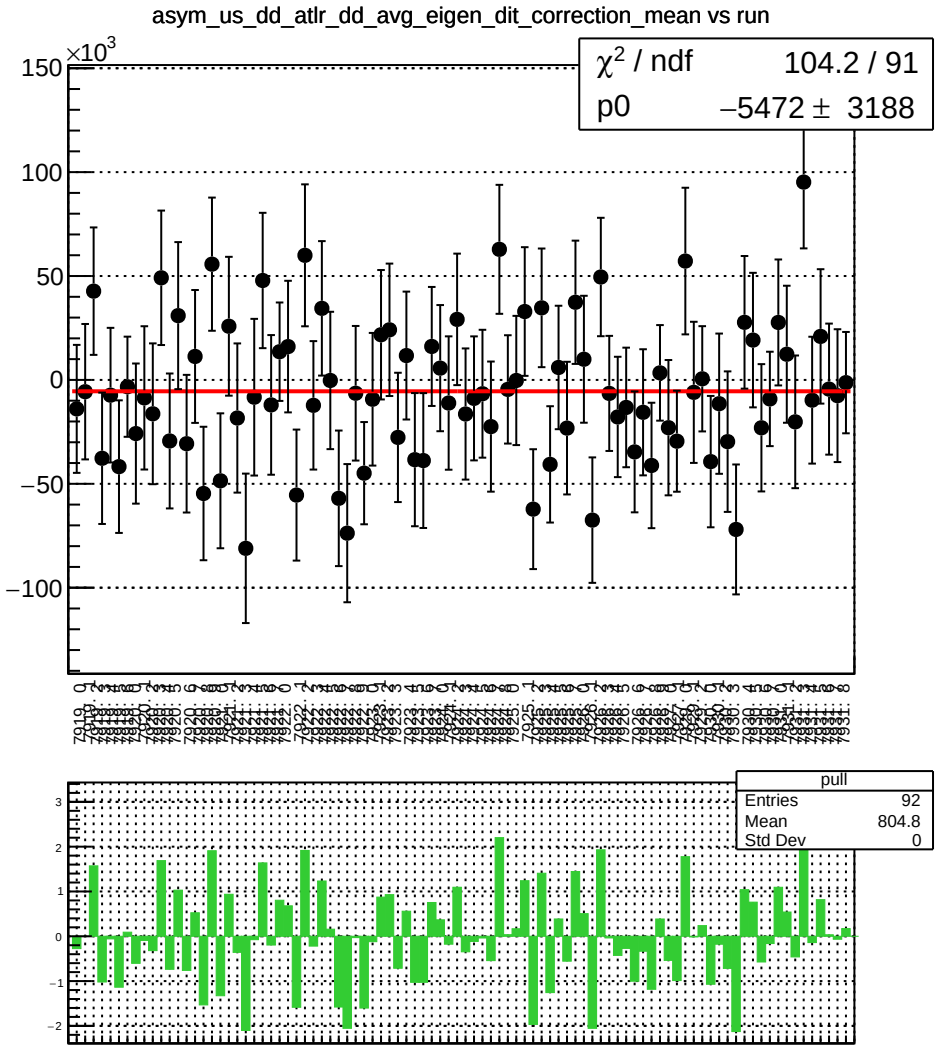

pull1D
Entries 92
Mean 0.002092
Std Dev 1.064
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

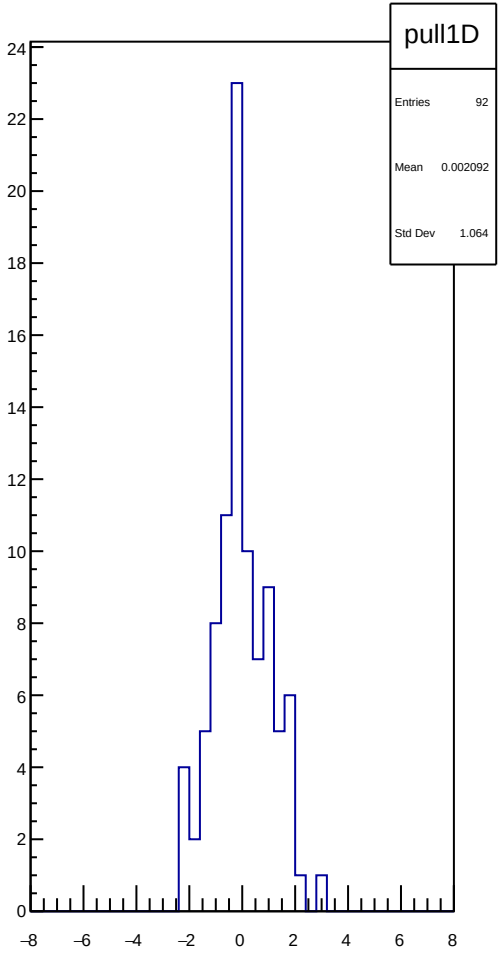

asym_us_dd_atlr_dd_avg_dit_correction_rms vs run
χ² / ndf 4850 / 91
p0 3005 ± 2.254
3600
3400
3200
3000
2800
2600

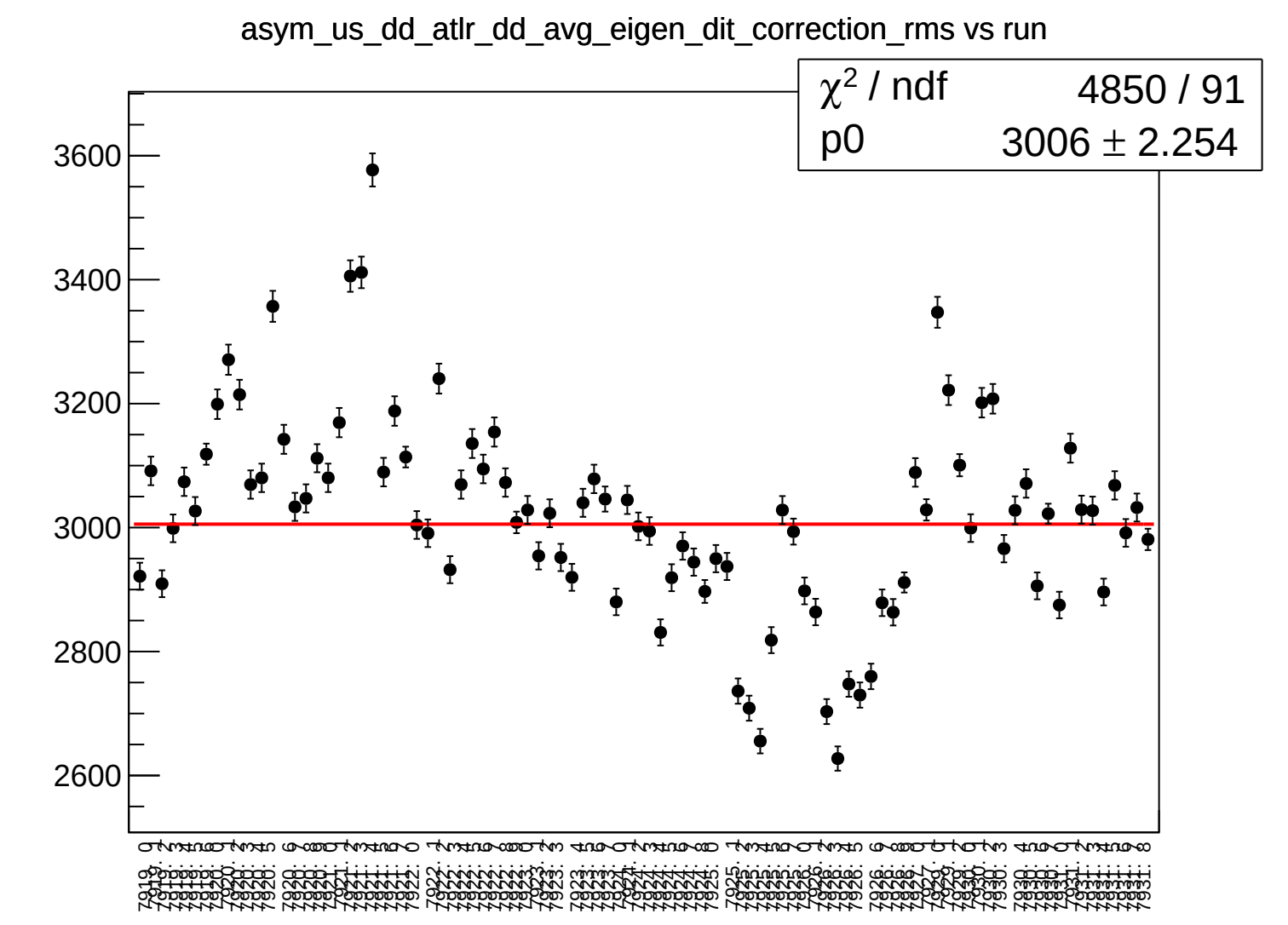

eigen_dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 64.91 / 91
p0 −335.7 ± 1881
pull
Entries 92
Mean −307.9
Std Dev 0

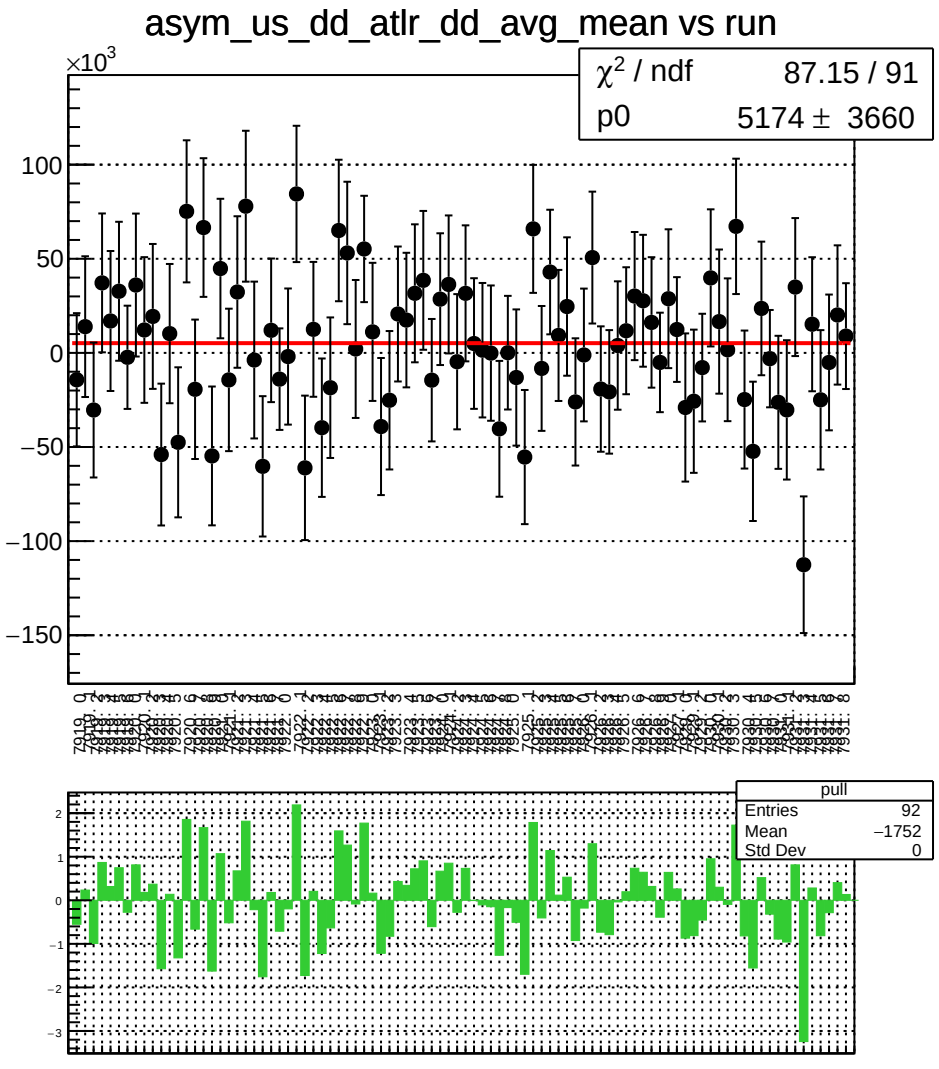

pull1D
Entries 92
Mean 0.007418
Std Dev 0.84

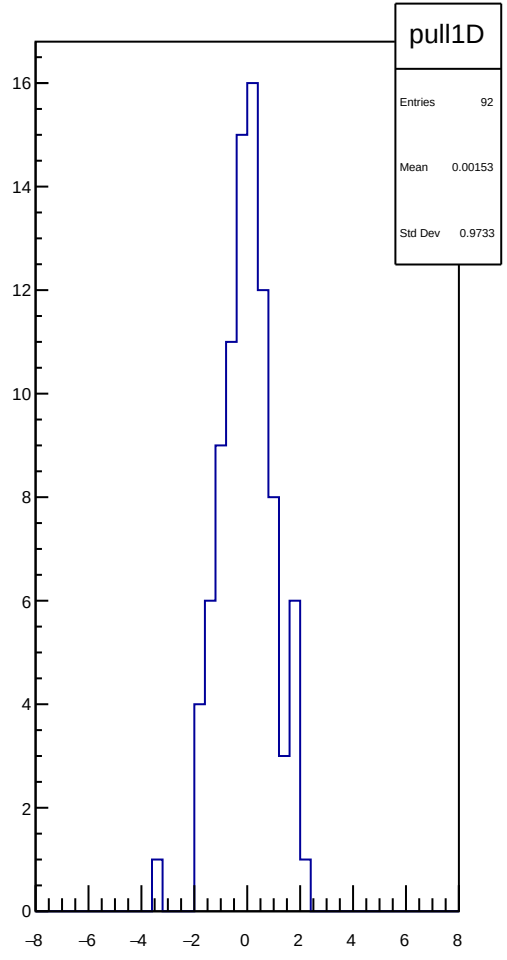

eigen_dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 108.2 / 91
p0 1775 ± 1.33
1840
1820
1800
1780
1760
1740

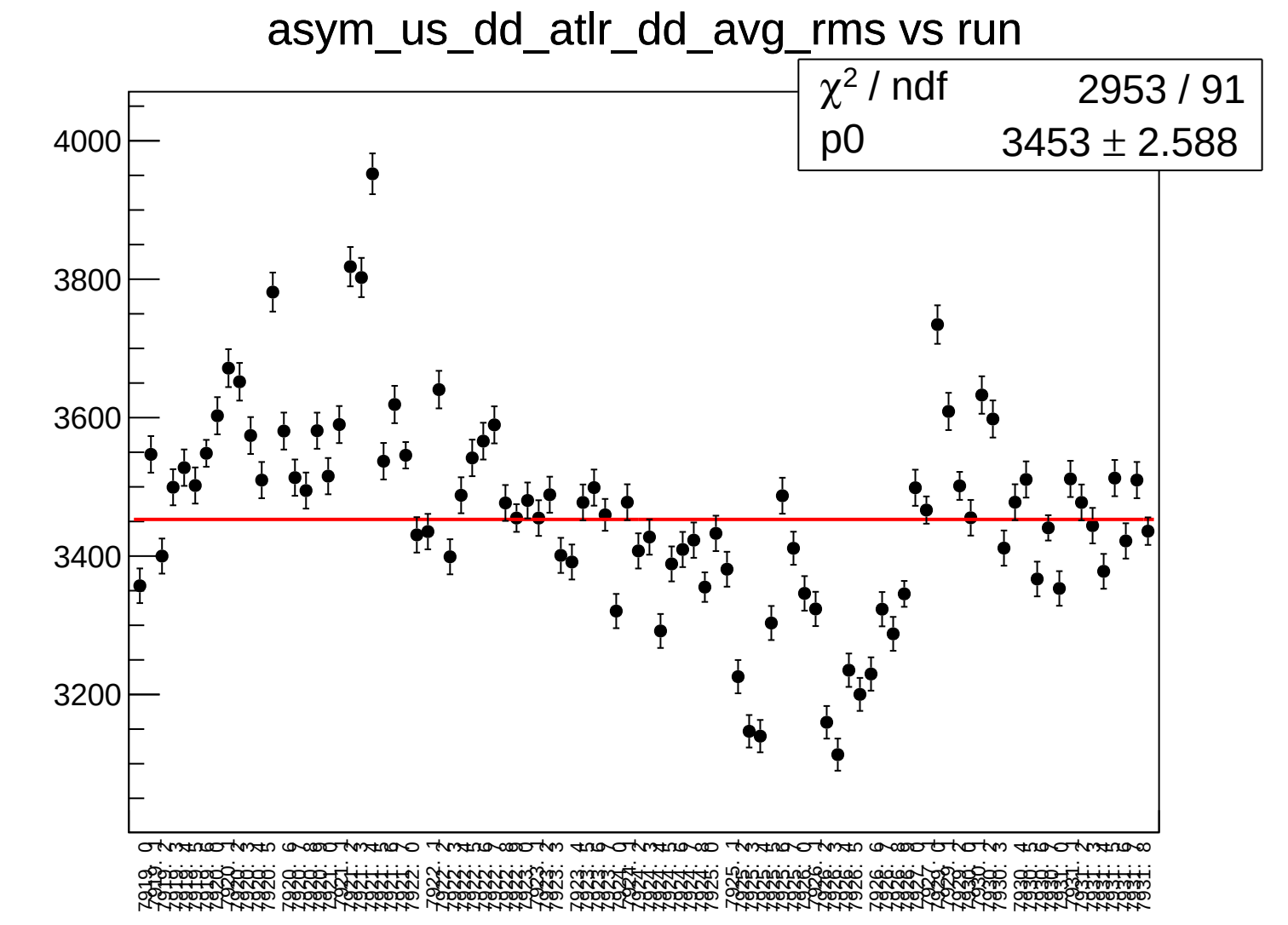

asym_us_dd_atlr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 104.2 / 91
p0 −5472 ± 3188
150
100
50
0
−50
−100
pull
Entries 92
Mean 804.8
Std Dev 0
3
2
1
0
−1
−2

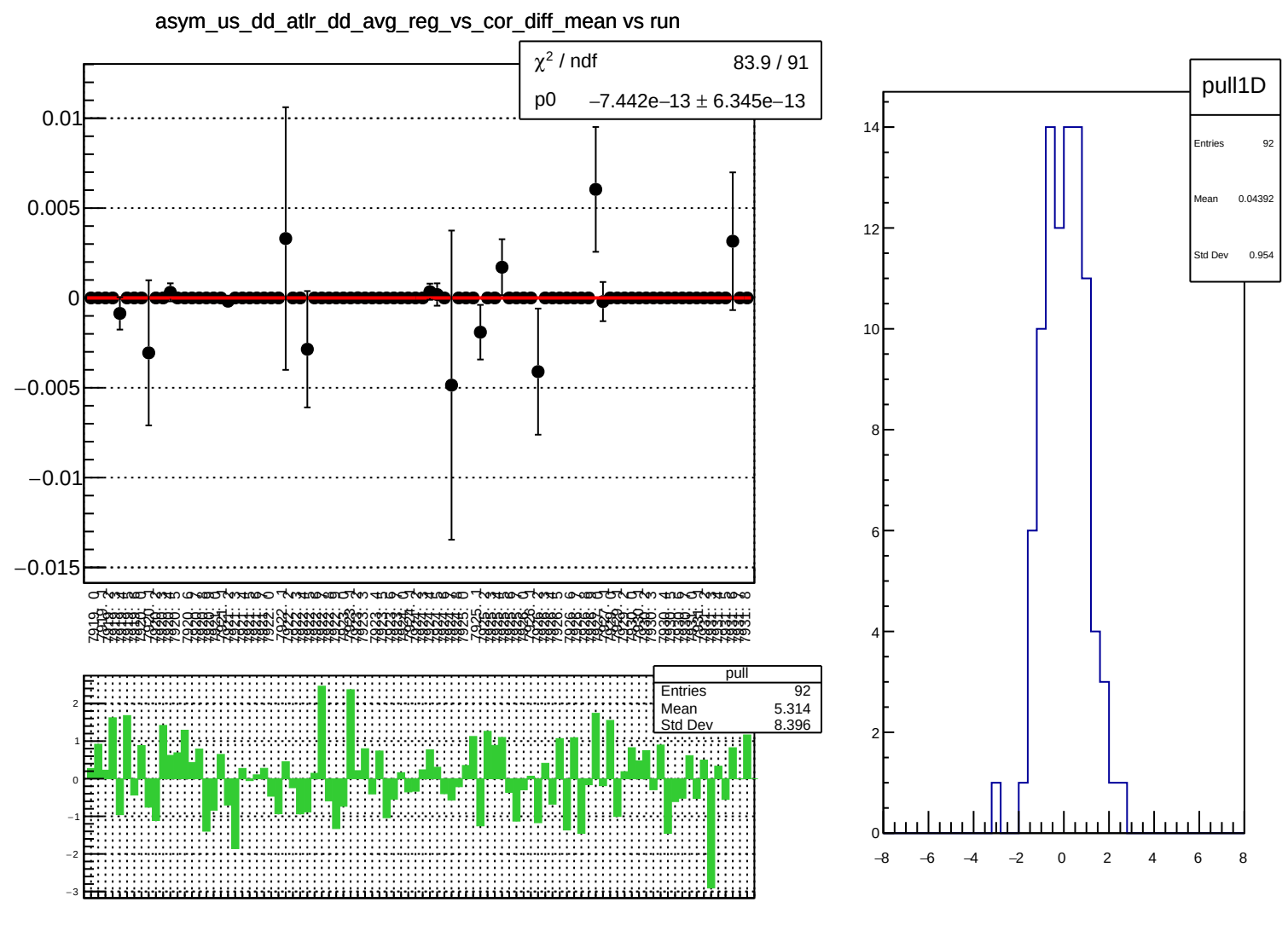

pull1D
Entries 92
Mean 0.002092
Std Dev 1.064
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

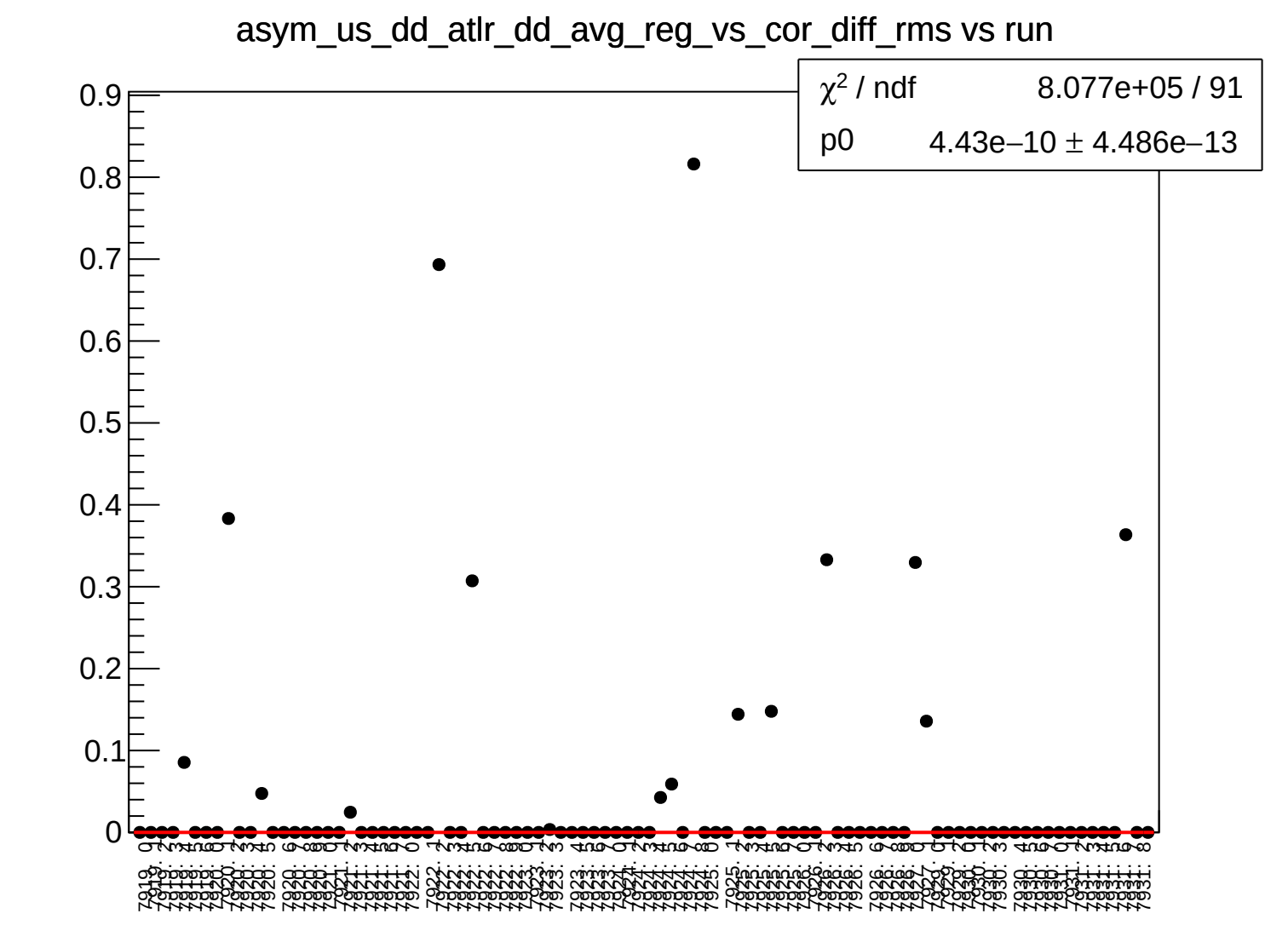

asym_us_dd_atlr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 4850 / 91
p0 3006 ± 2.254
3600
3400
3200
3000
2800
2600

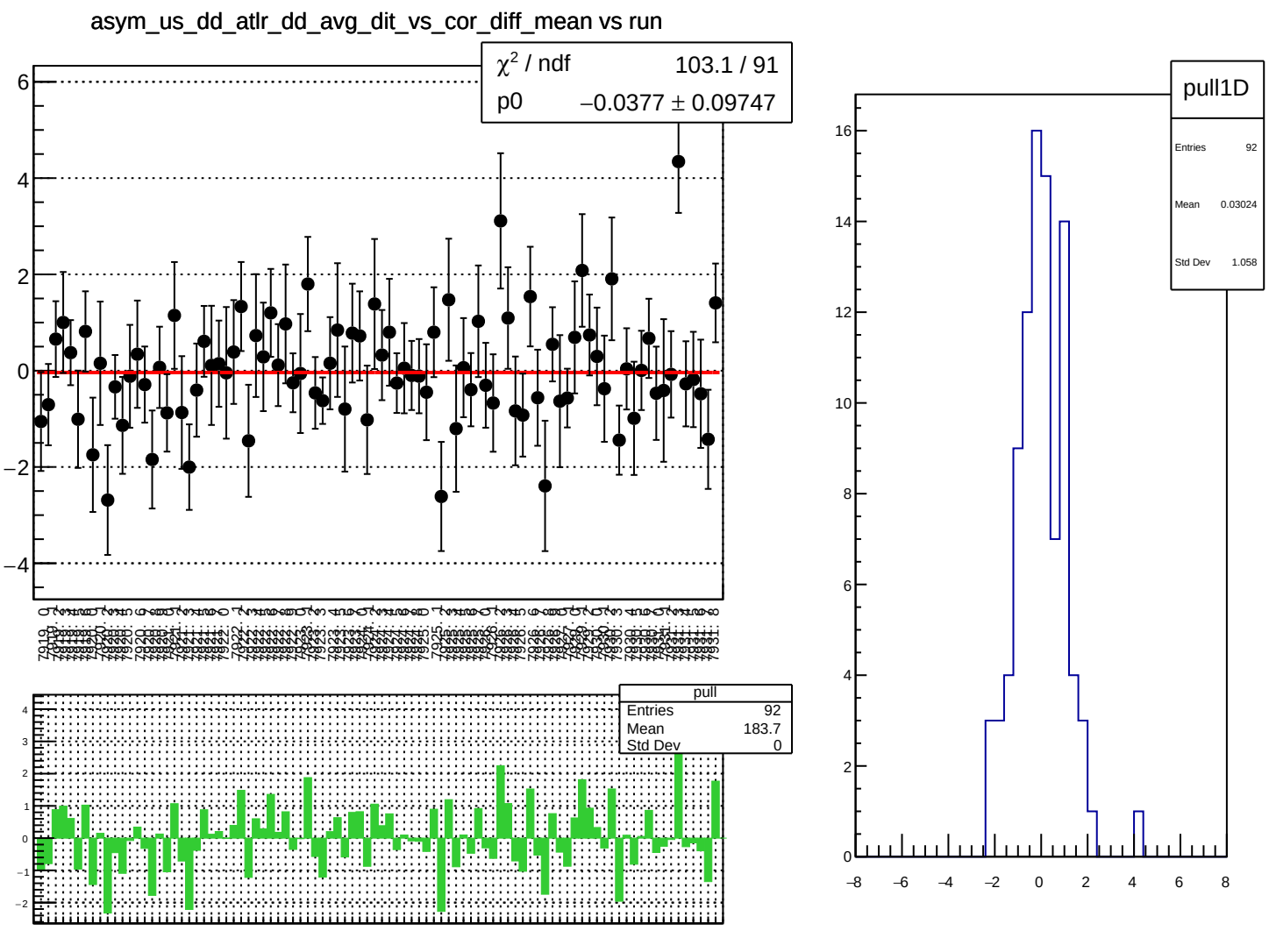

asym_us_dd_atlr_dd_avg_mean vs run
×10^3
χ^2 / ndf 87.15 / 91
p0 5174 ± 3660
100
50
0
−50
−100
−150
pull
Entries 92
Mean −1752
Std Dev 0
2
1
0
−1
−2
−3

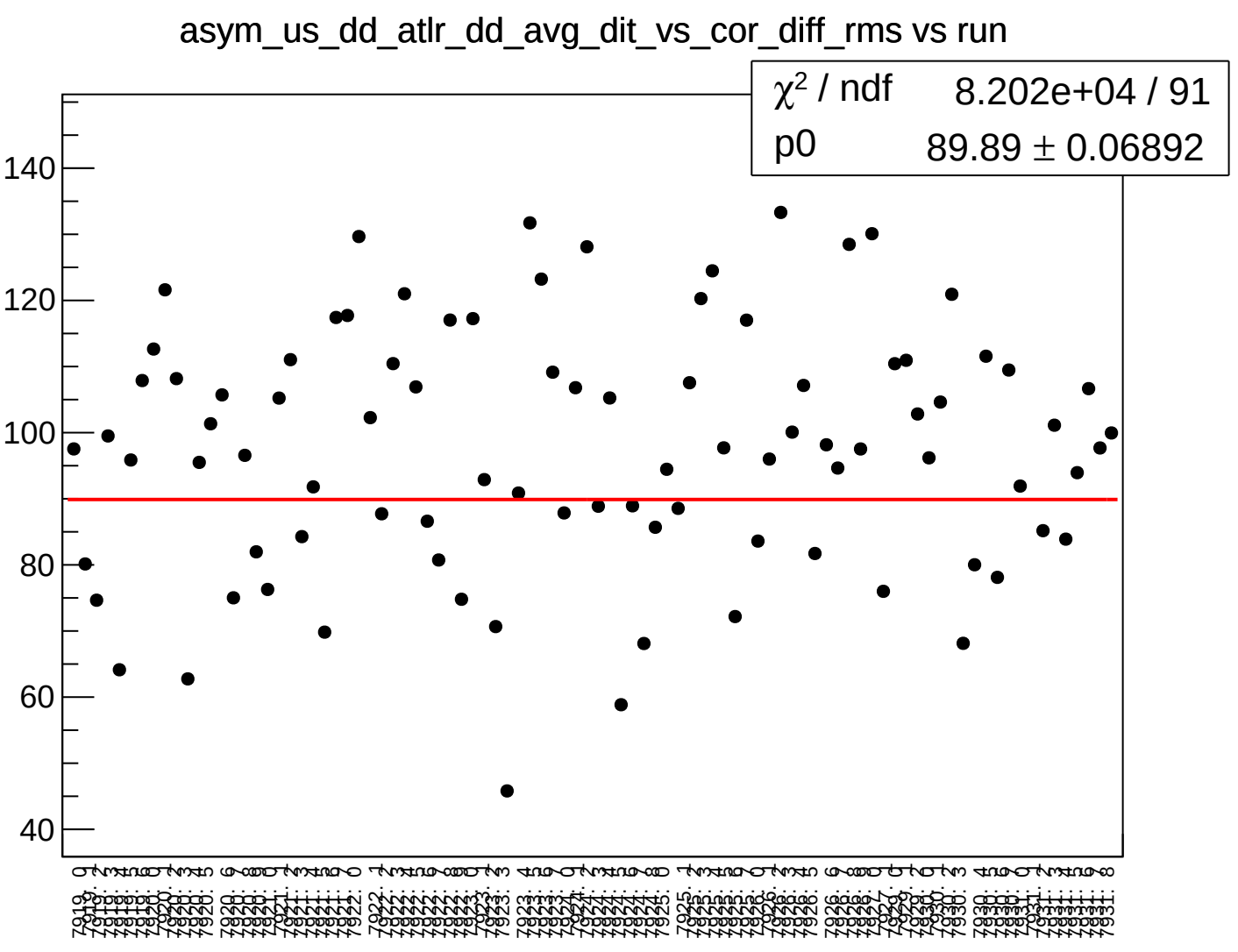

pull1D
Entries 92
Mean 0.00153
Std Dev 0.9733
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

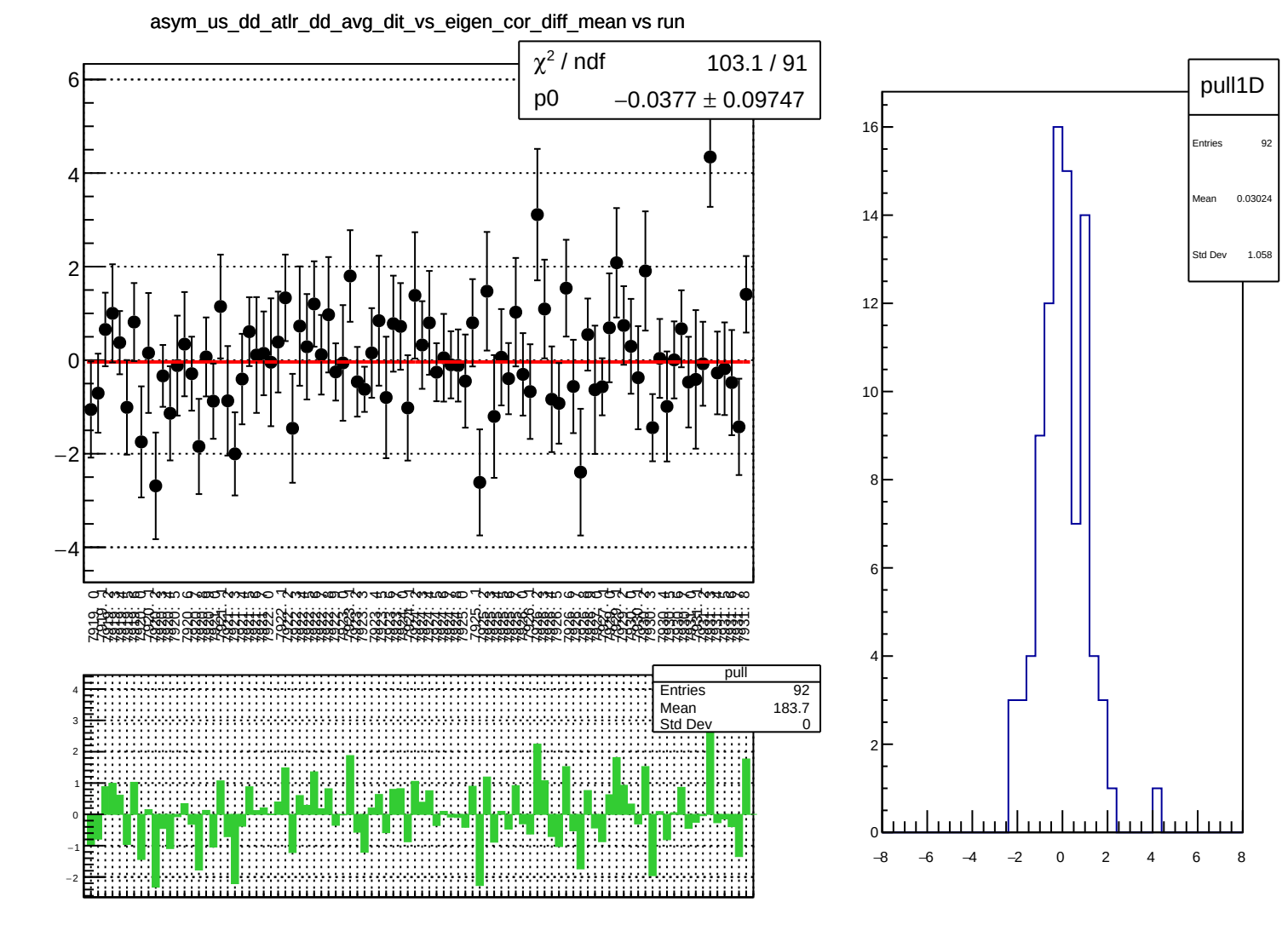

asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 2953 / 91
p0 3453 ± 2.588
4000
3800
3600
3400
3200

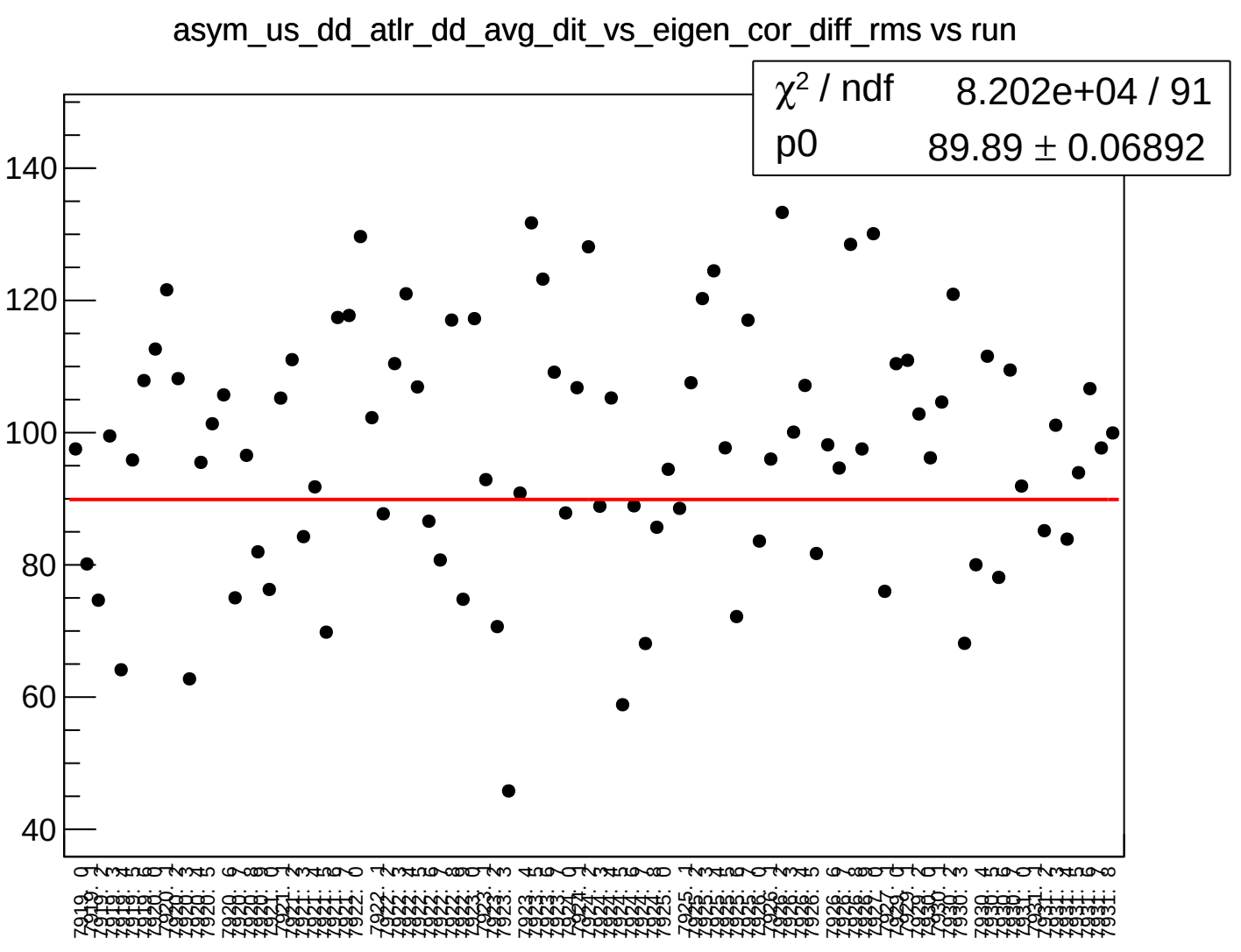

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 83.9 / 91
p0 −7.442e−13 ± 6.345e−13
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 92
Mean 5.314
Std Dev 8.396
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean 0.04392
Std Dev 0.954
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

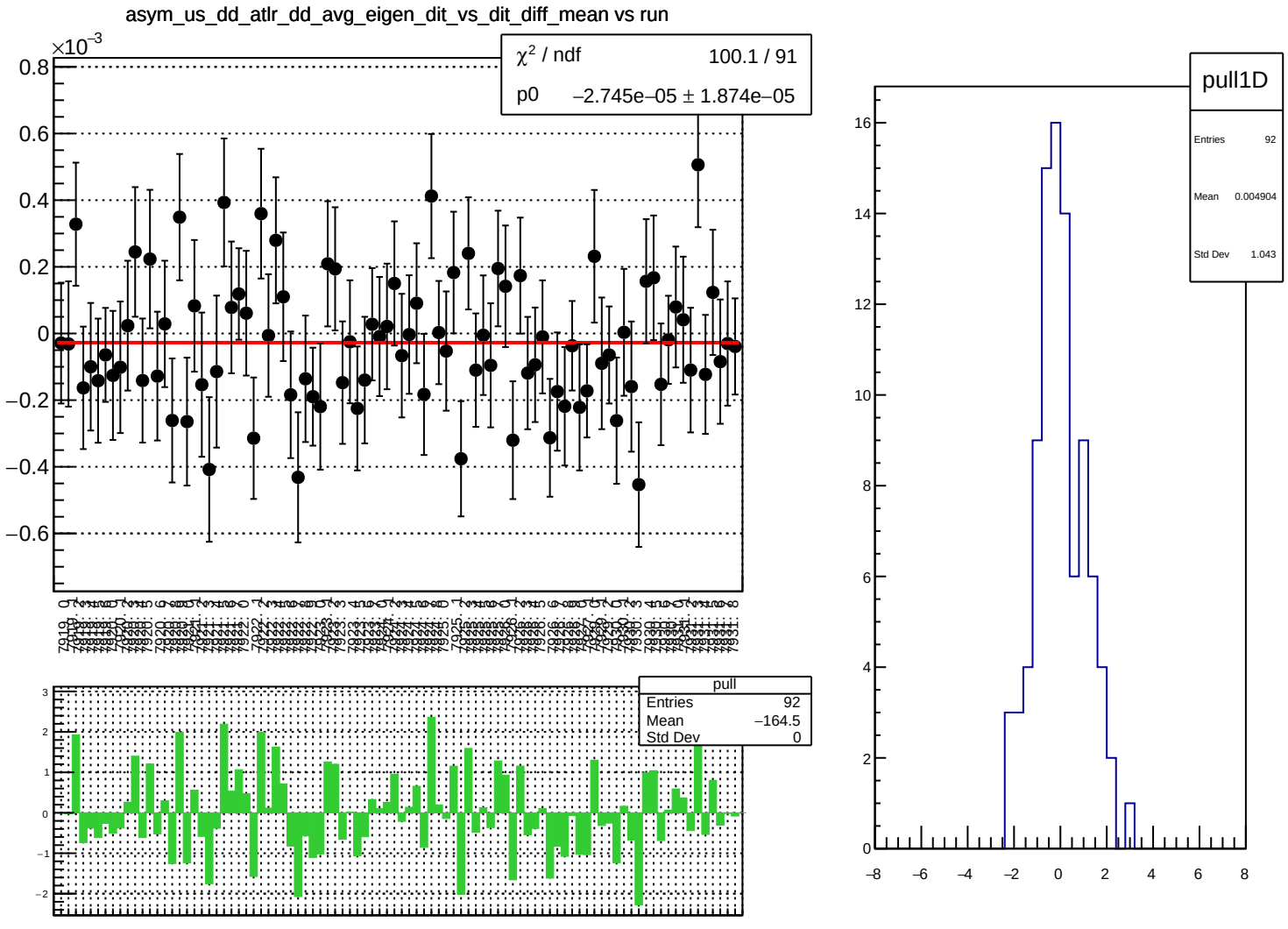

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.077e+05 / 91
p0 4.43e−10 ± 4.486e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

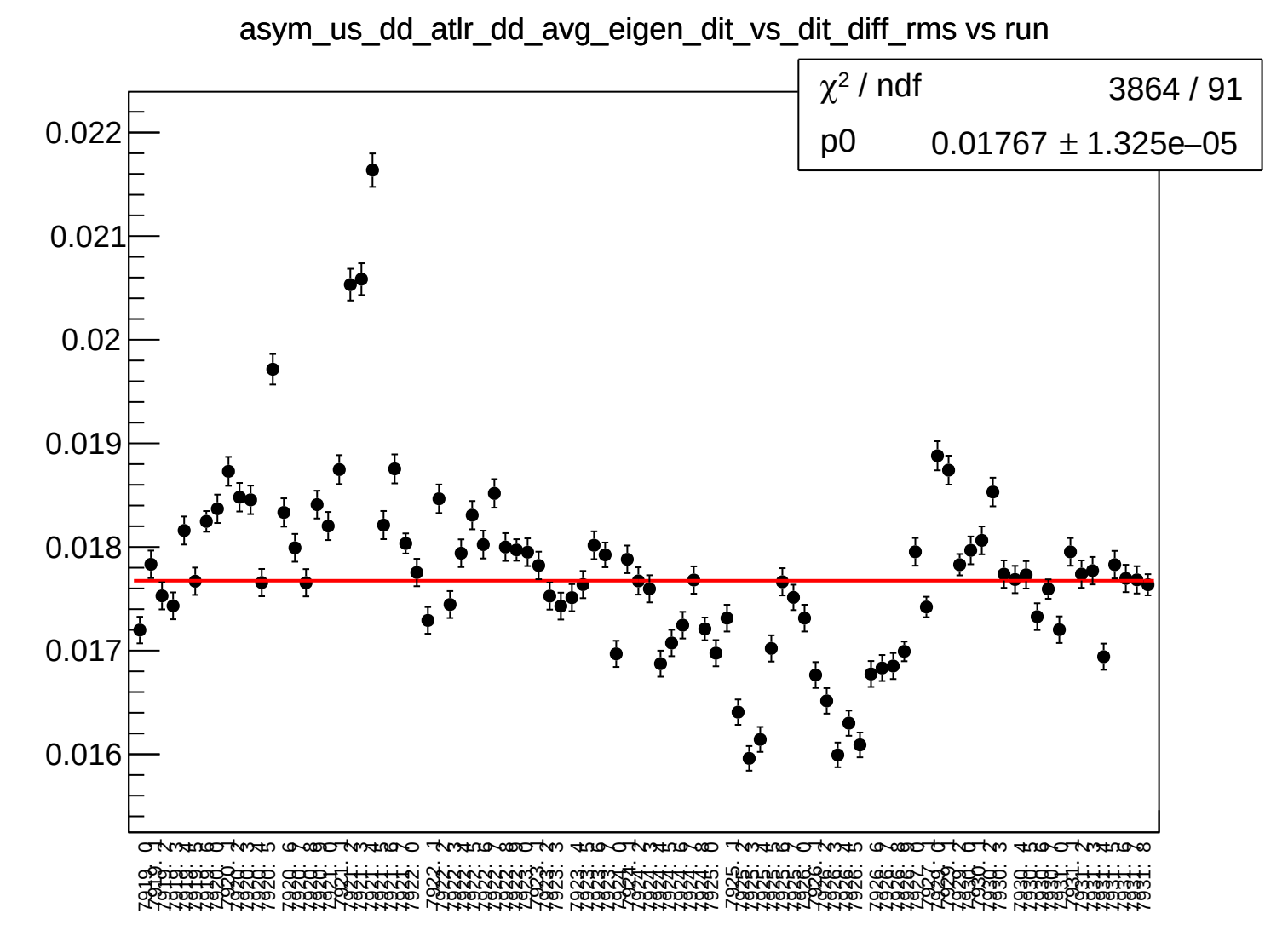

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 103.1 / 91
p0 −0.0377 ± 0.09747
pull
Entries 92
Mean 183.7
Std Dev 0
pull1D
Entries 92
Mean 0.03024
Std Dev 1.058

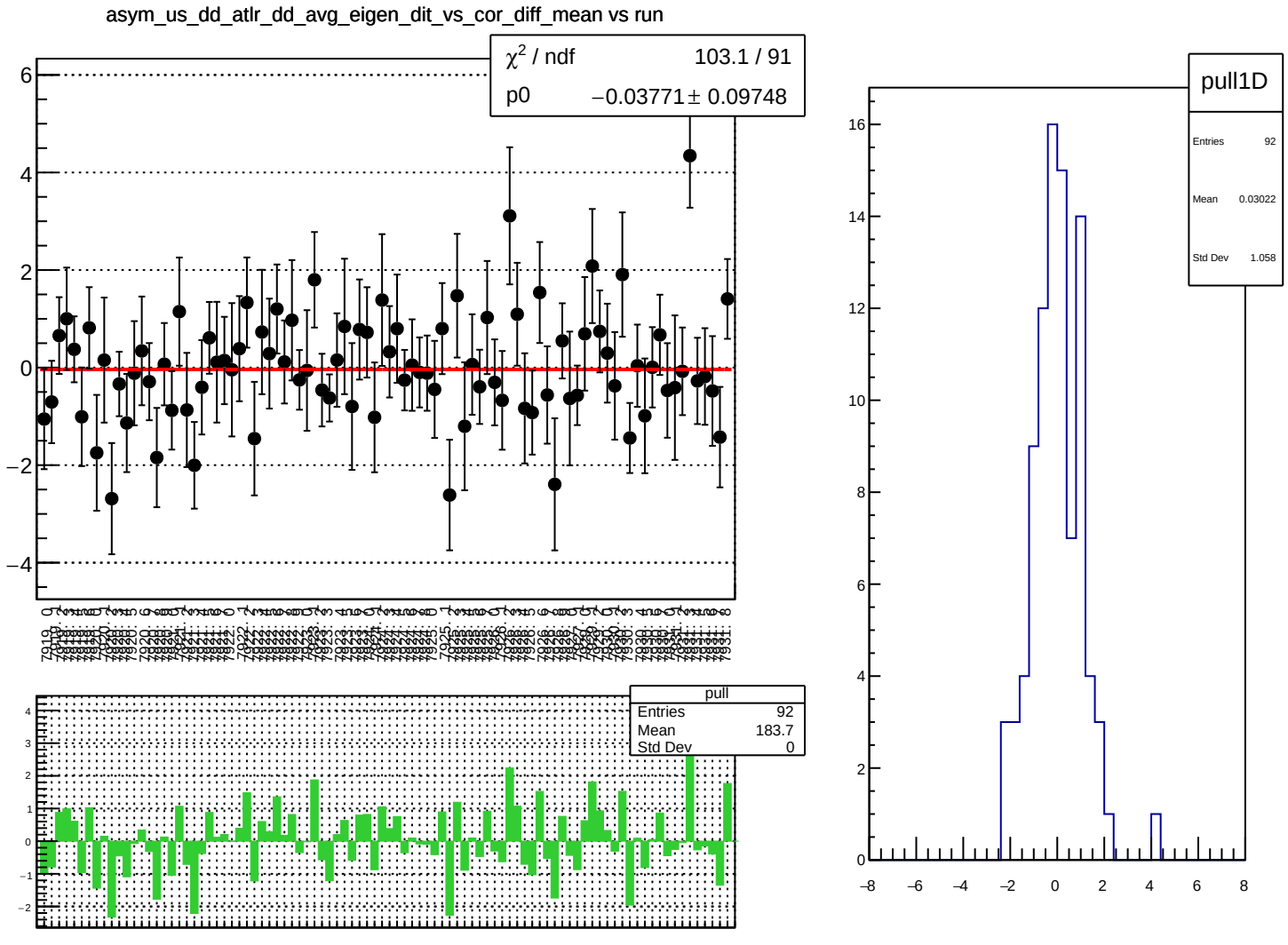

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.202e+04 / 91
p0 89.89 ± 0.06892
140
120
100
80
60
40

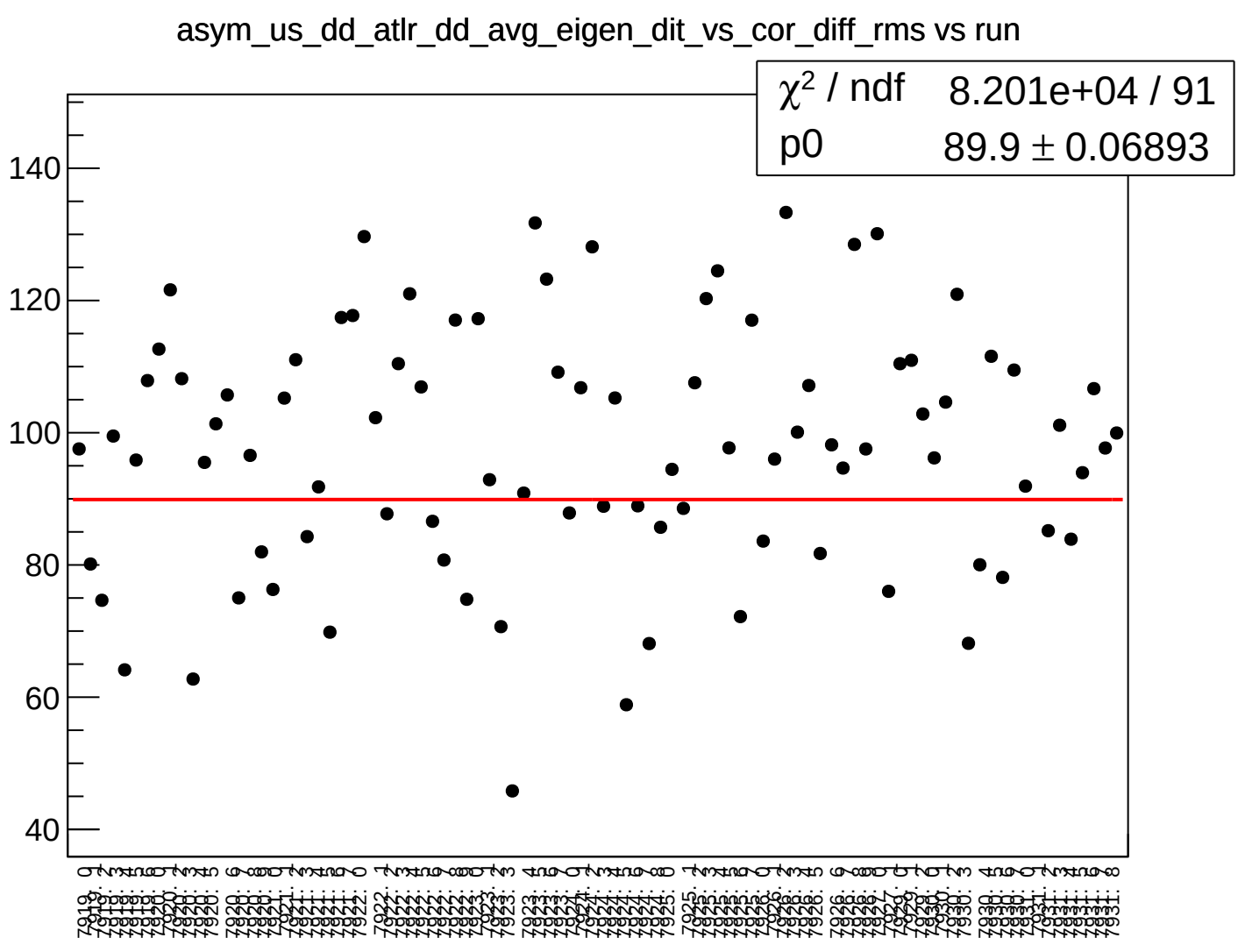

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.1 / 91
p0 −0.0377 ± 0.09747
pull
Entries 92
Mean 183.7
Std Dev 0
pull1D
Entries 92
Mean 0.03024
Std Dev 1.058

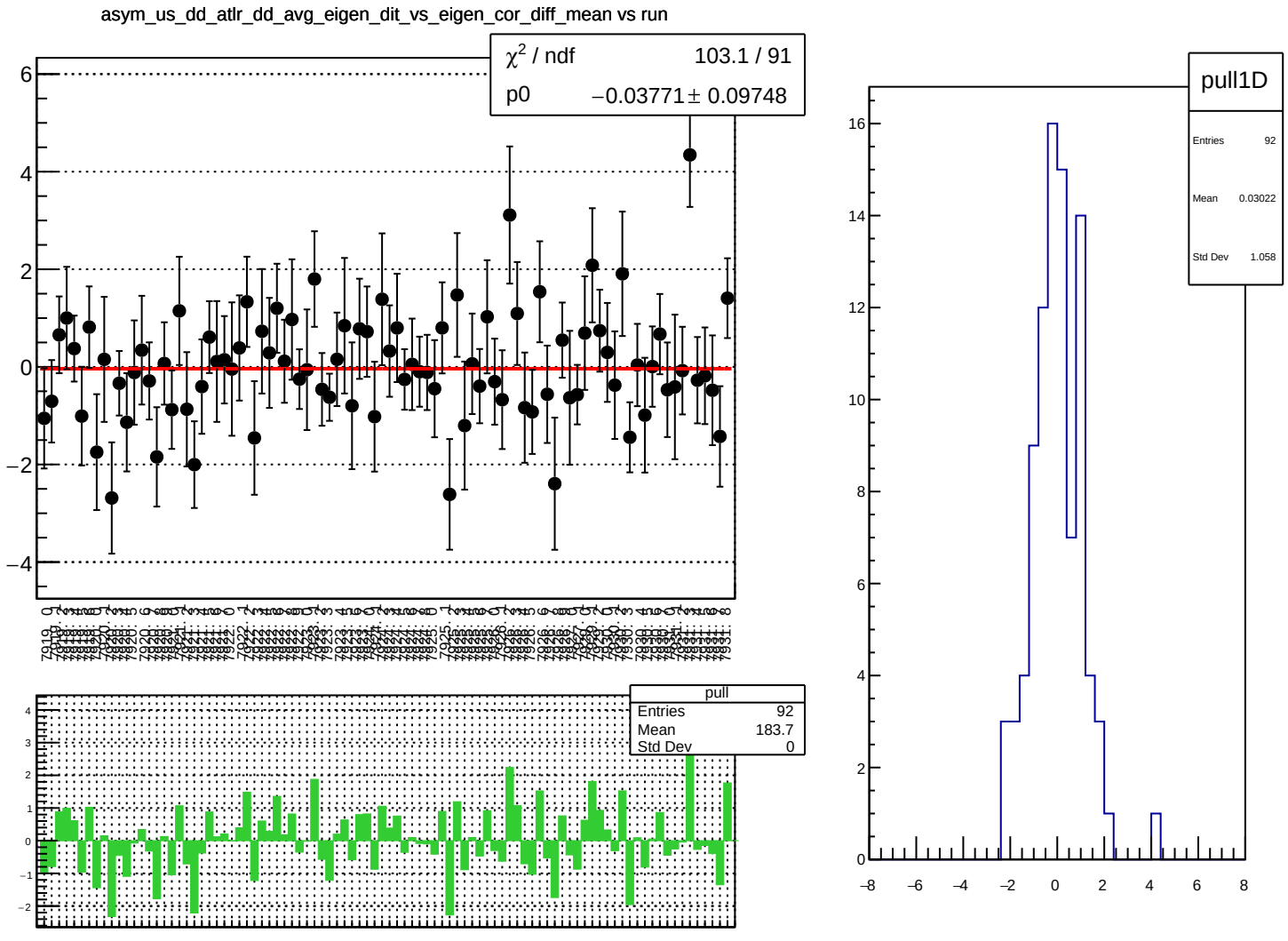

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.202e+04 / 91
p0 89.89 ± 0.06892
140
120
100
80
60
40

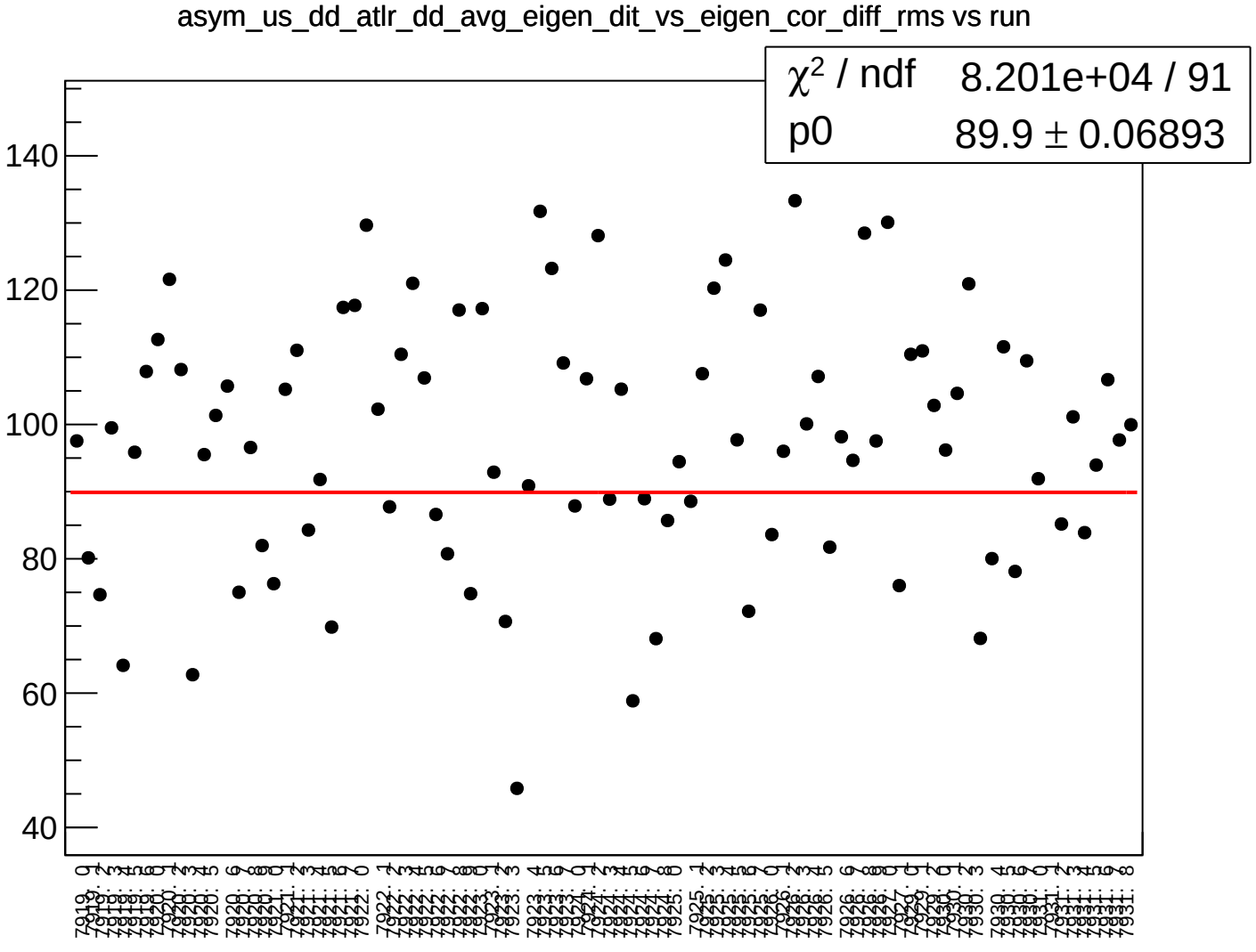

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 100.1 / 91
p0 −2.745e−05 ± 1.874e−05
pull
Entries 92
Mean −164.5
Std Dev 0
pull1D
Entries 92
Mean 0.004904
Std Dev 1.043

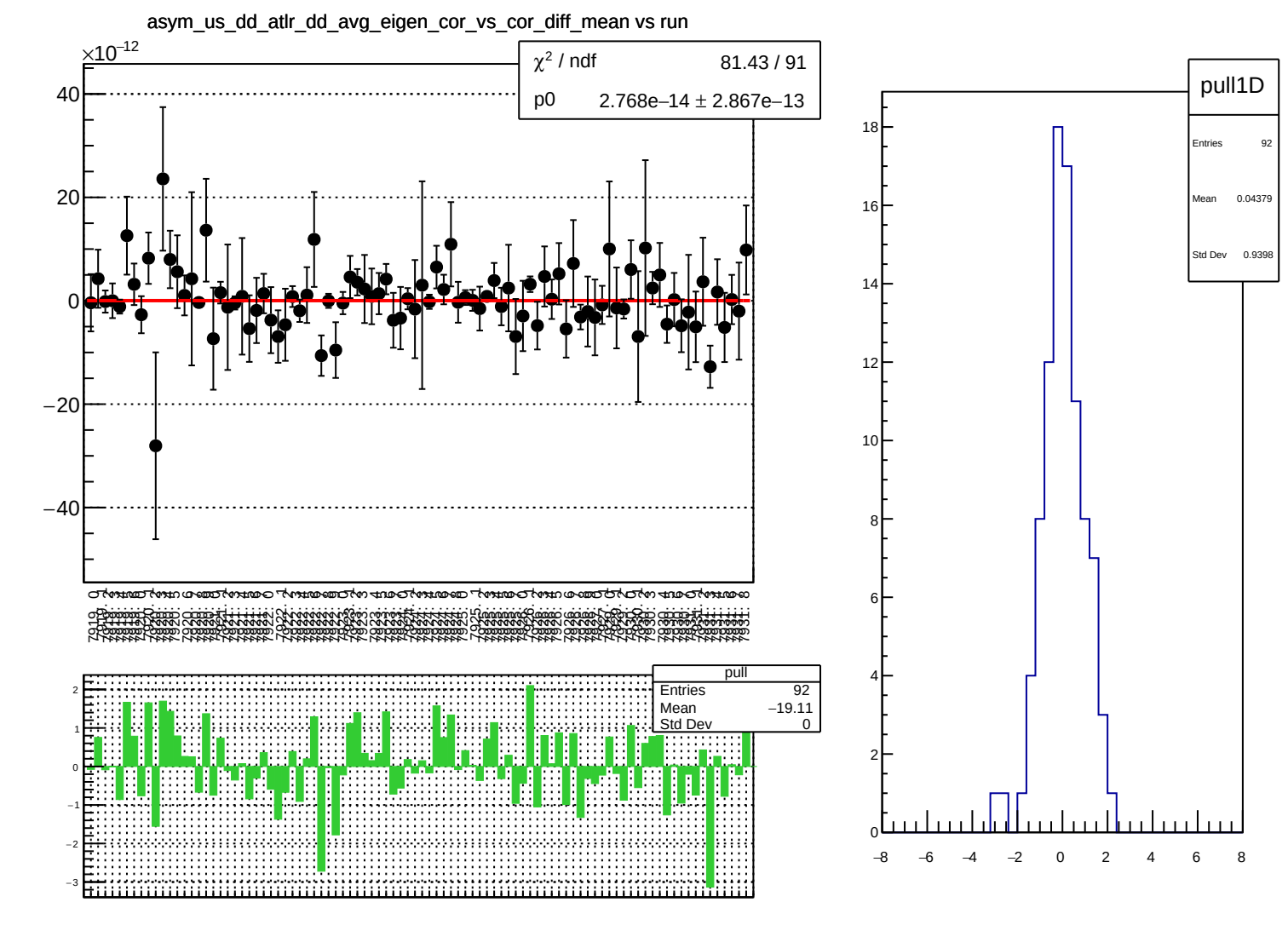

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3864 / 91
p0 0.01767 ± 1.325e−05
0.022
0.021
0.02
0.019
0.018
0.017
0.016

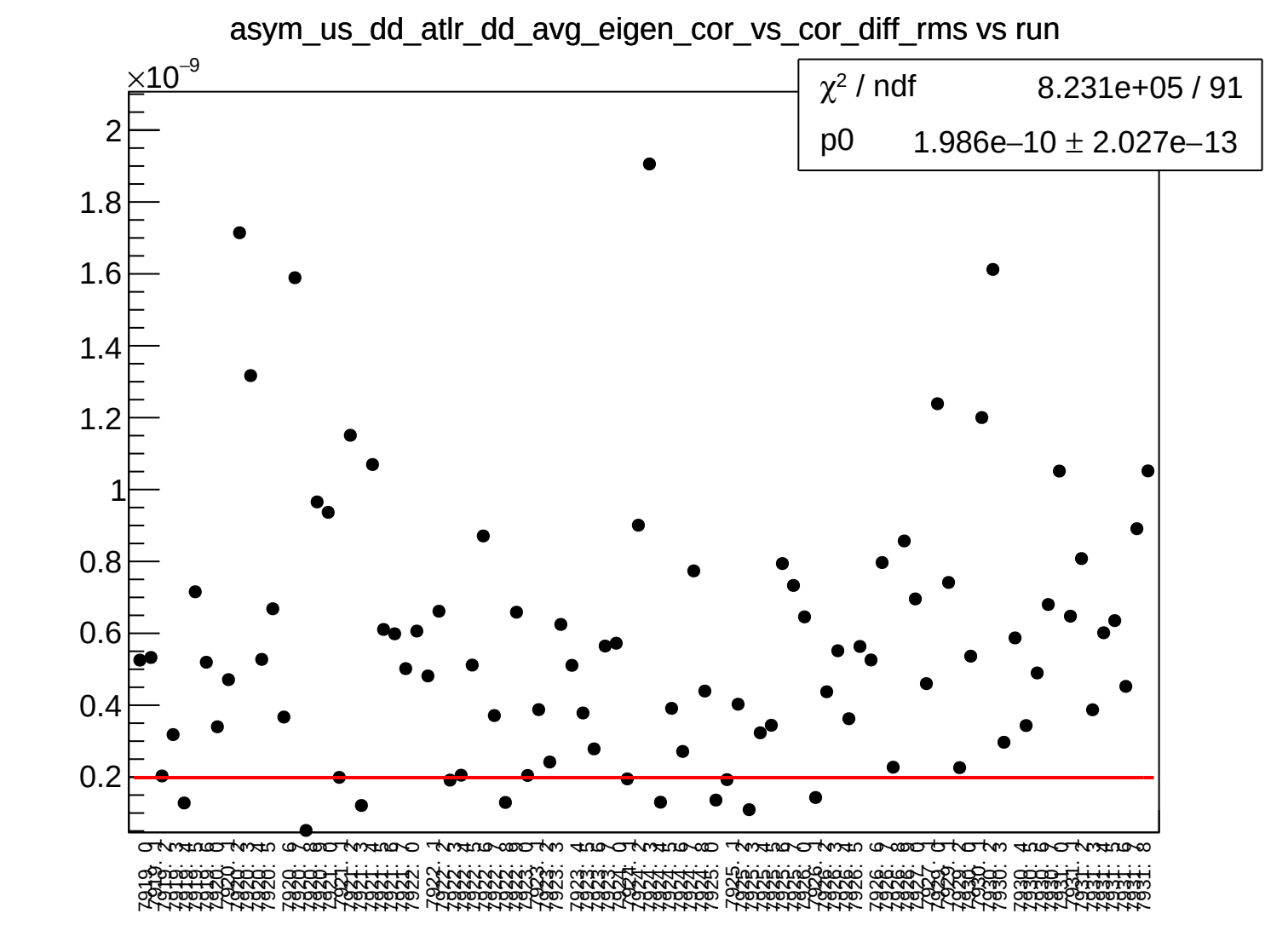

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 103.1 / 91
p0 −0.03771 ± 0.09748
pull
Entries 92
Mean 183.7
Std Dev 0
pull1D
Entries 92
Mean 0.03022
Std Dev 1.058

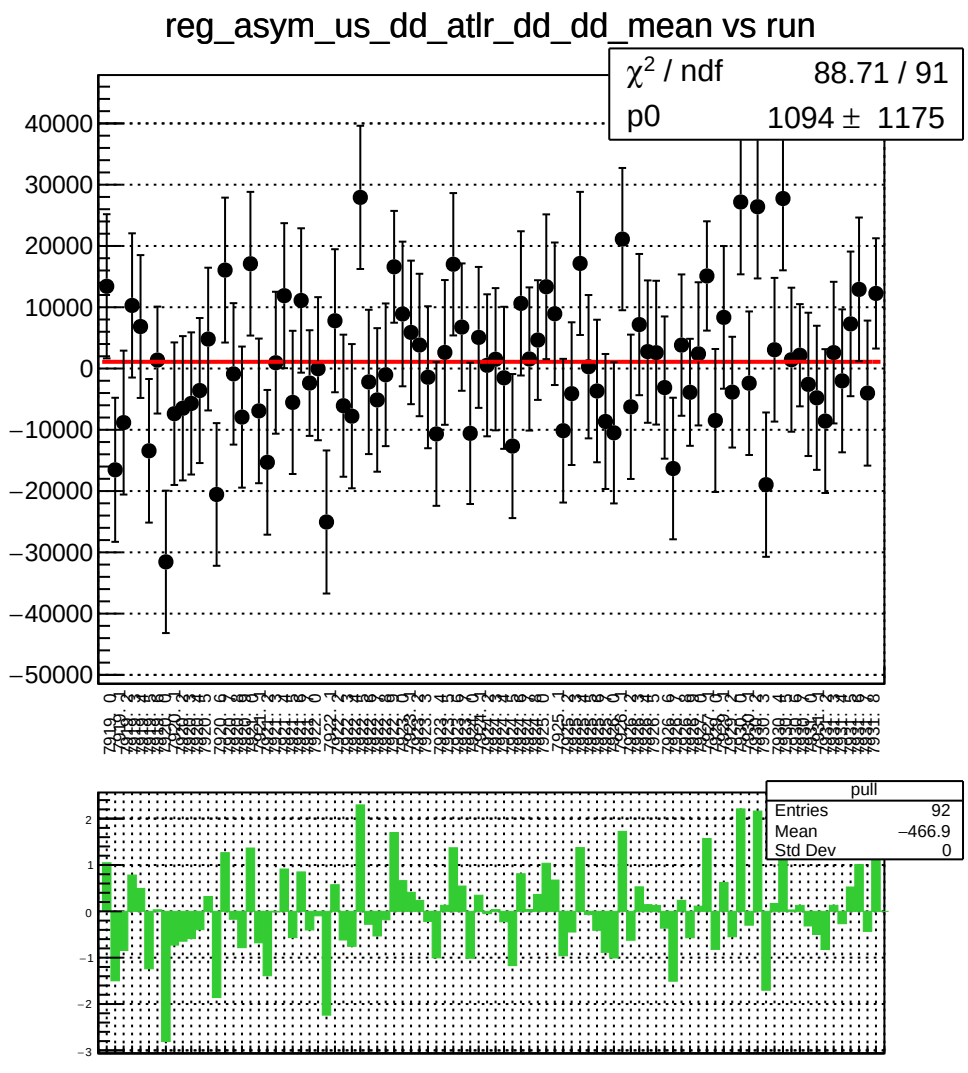

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.201e+04 / 91
p0 89.9 ± 0.06893
140
120
100
80
60
40

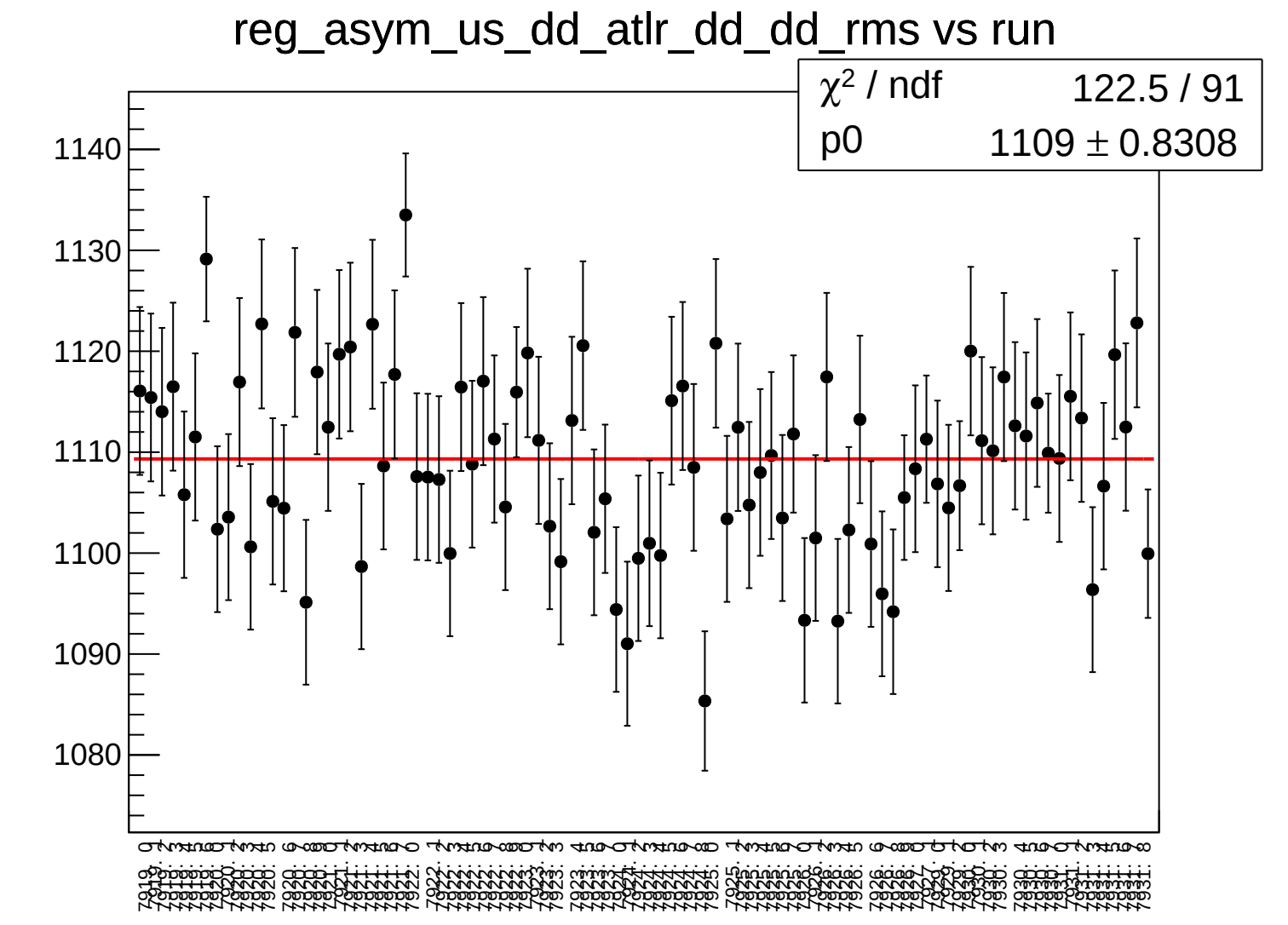

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.1 / 91
p0 −0.03771 ± 0.09748
pull
Entries 92
Mean 183.7
Std Dev 0
pull1D
Entries 92
Mean 0.03022
Std Dev 1.058

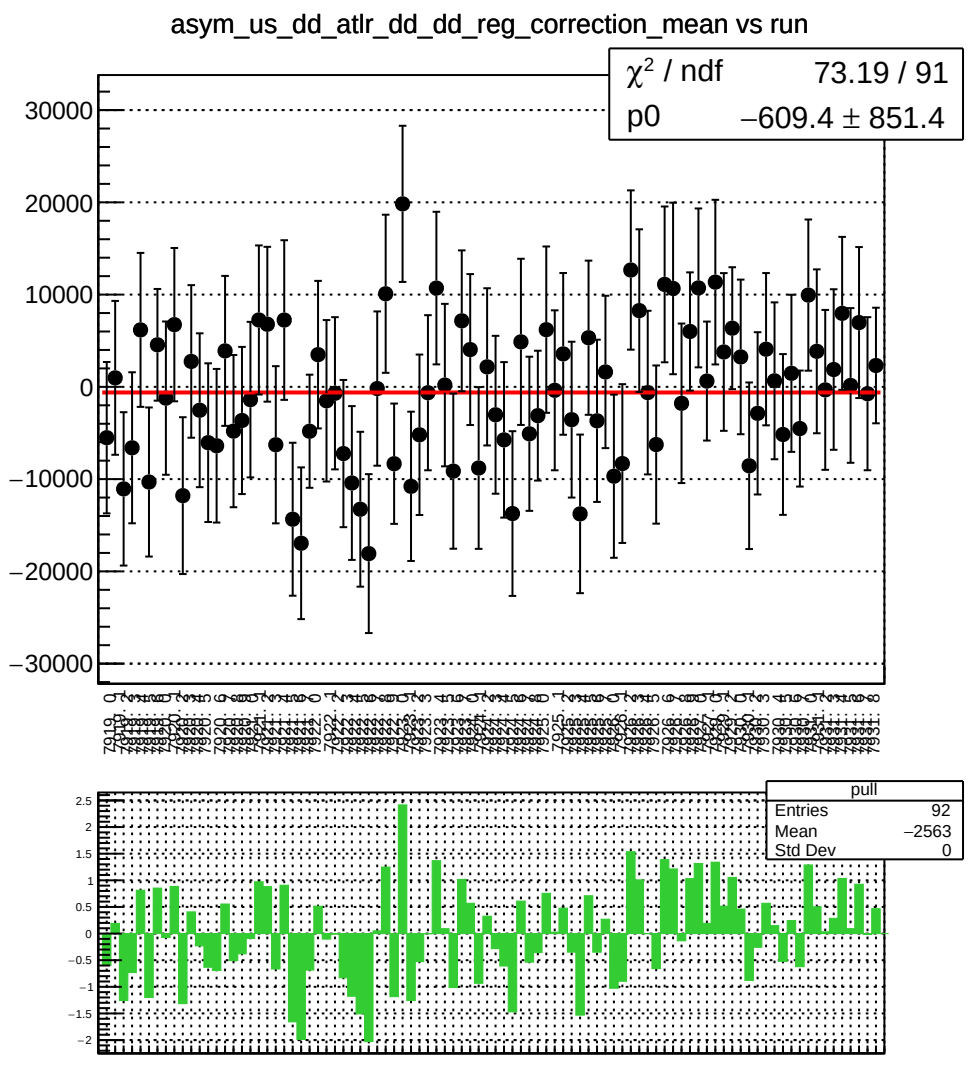

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.201e+04 / 91
p0 89.9 ± 0.06893
140
120
100
80
60
40

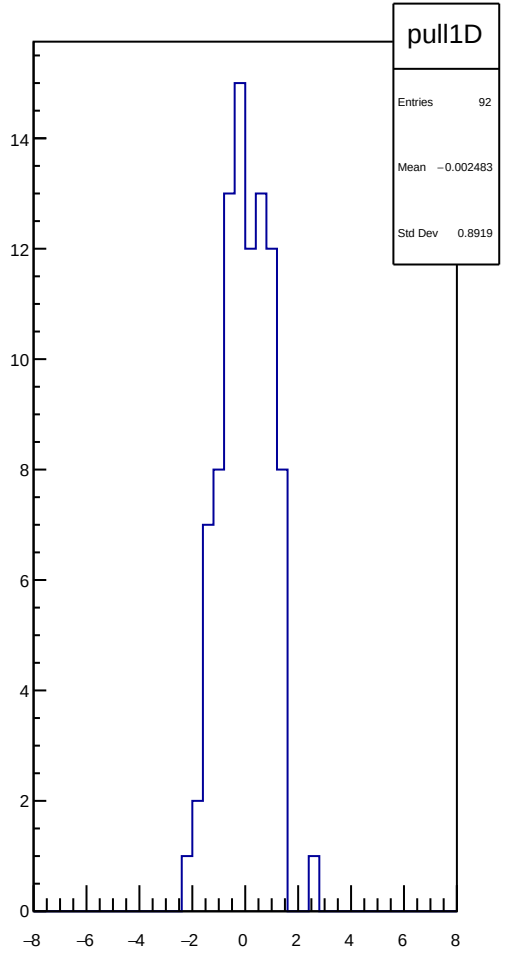

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.43 / 91
p0 2.768e−14 ± 2.867e−13
pull
Entries 92
Mean −19.11
Std Dev 0
pull1D
Entries 92
Mean 0.04379
Std Dev 0.9398

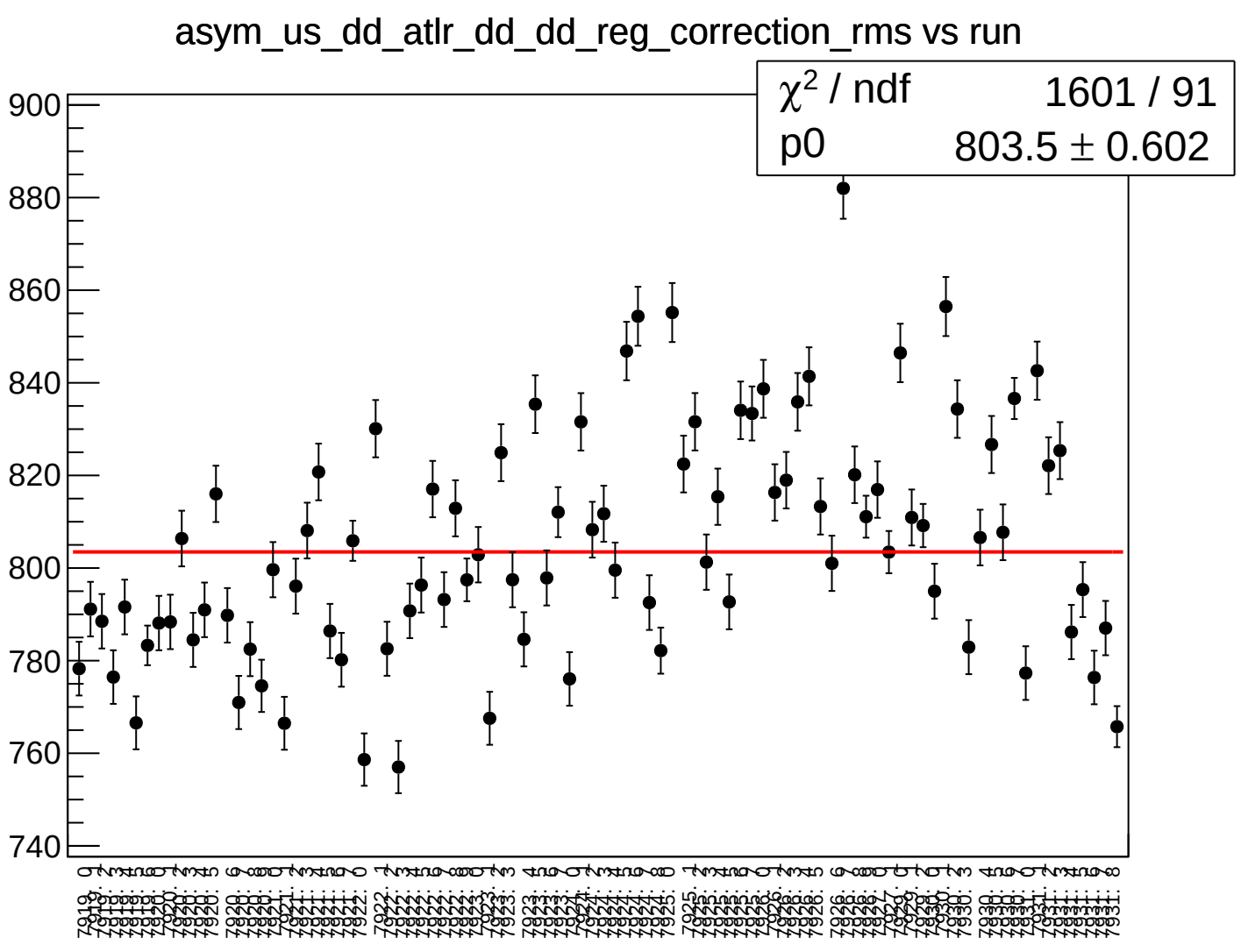

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.231e+05 / 91
p0 1.986e−10 ± 2.027e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

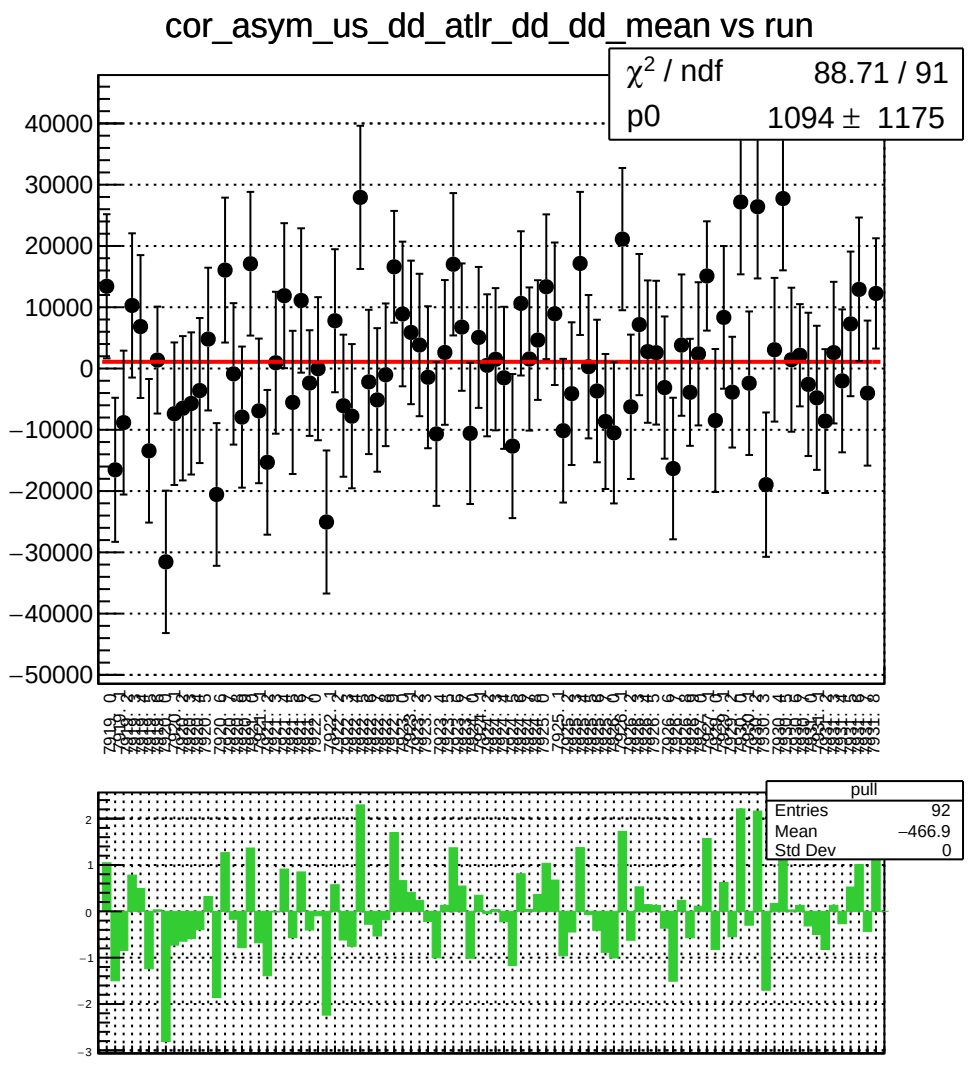

reg_asym_us_dd_atlr_dd_dd_mean vs run
χ^2 / ndf 88.71 / 91
p0 1094 ± 1175
pull
Entries 92
Mean −466.9
Std Dev 0
pull1D
Entries 92
Mean −0.009888
Std Dev 0.9819

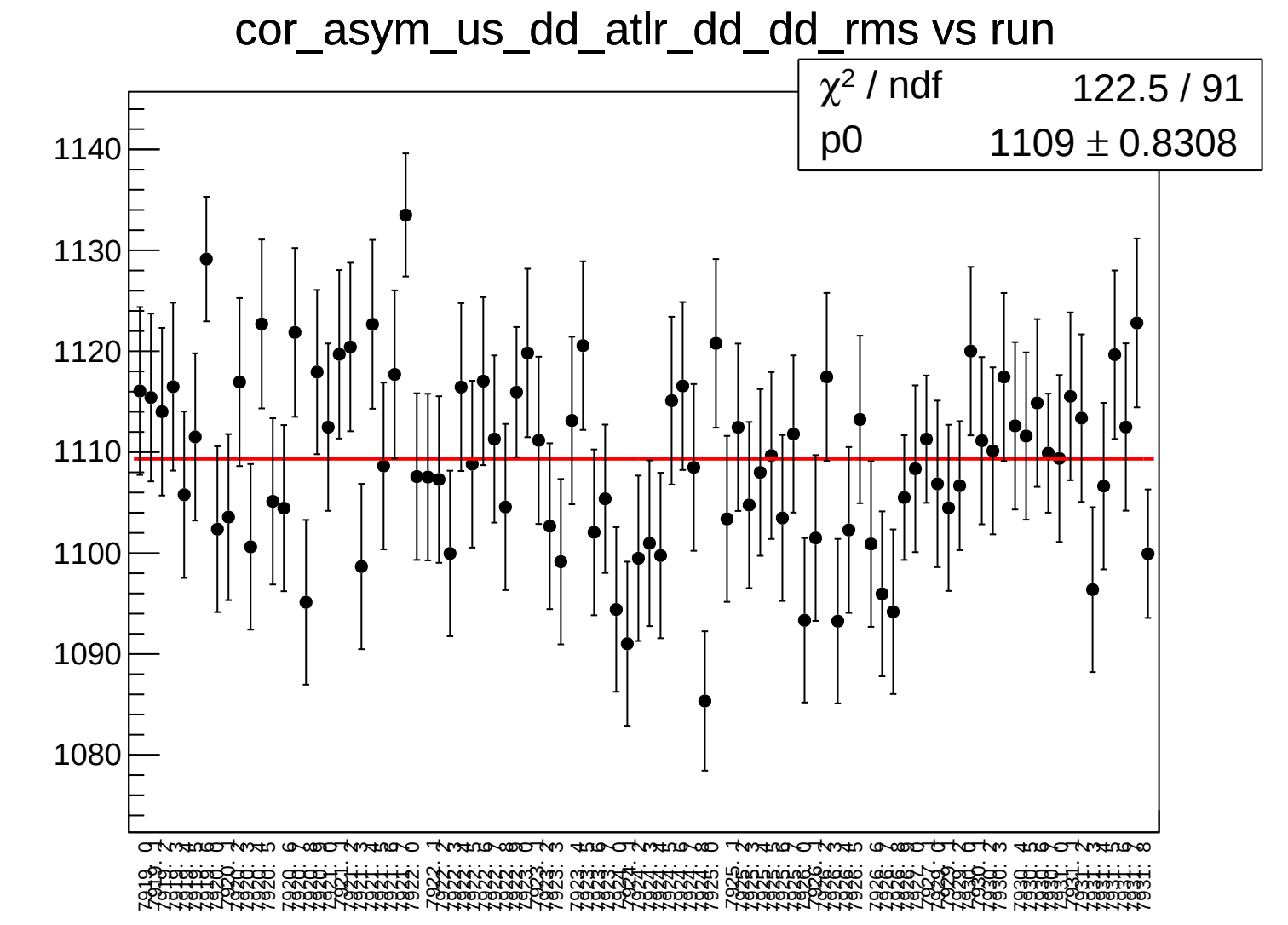

reg_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 122.5 / 91
p0 1109 ± 0.8308
1140
1130
1120
1110
1100
1090
1080

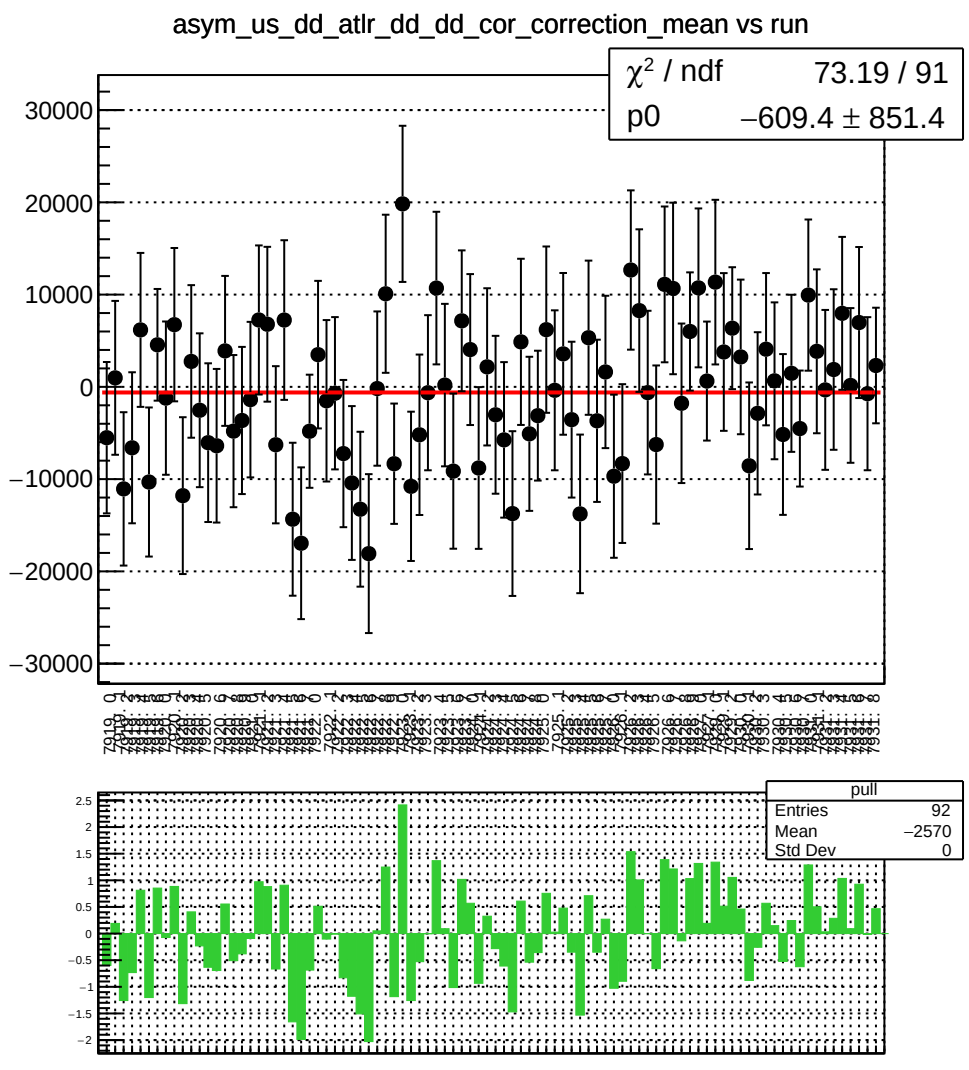

asym_us_dd_atlr_dd_dd_reg_correction_mean vs run
χ² / ndf 73.19 / 91
p0 −609.4 ± 851.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −2563
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

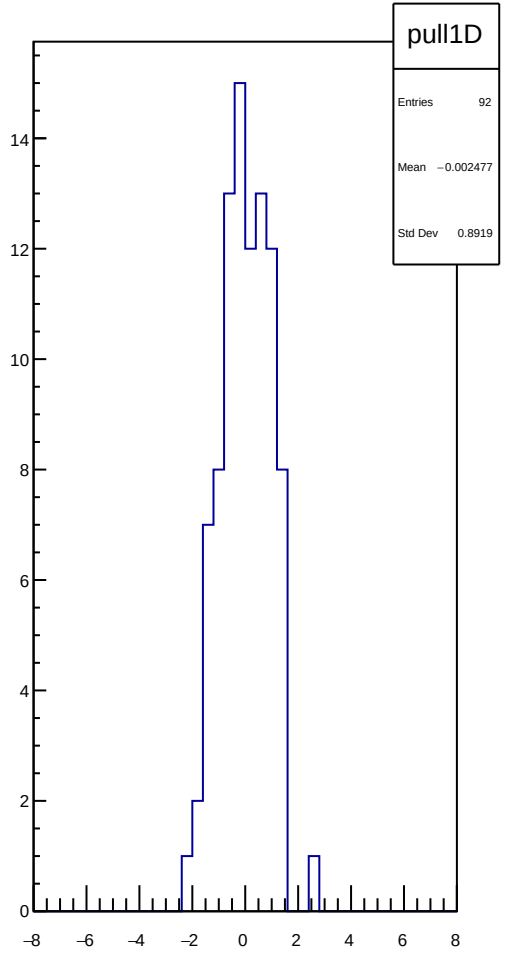

pull1D
Entries 92
Mean −0.002483
Std Dev 0.8919
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

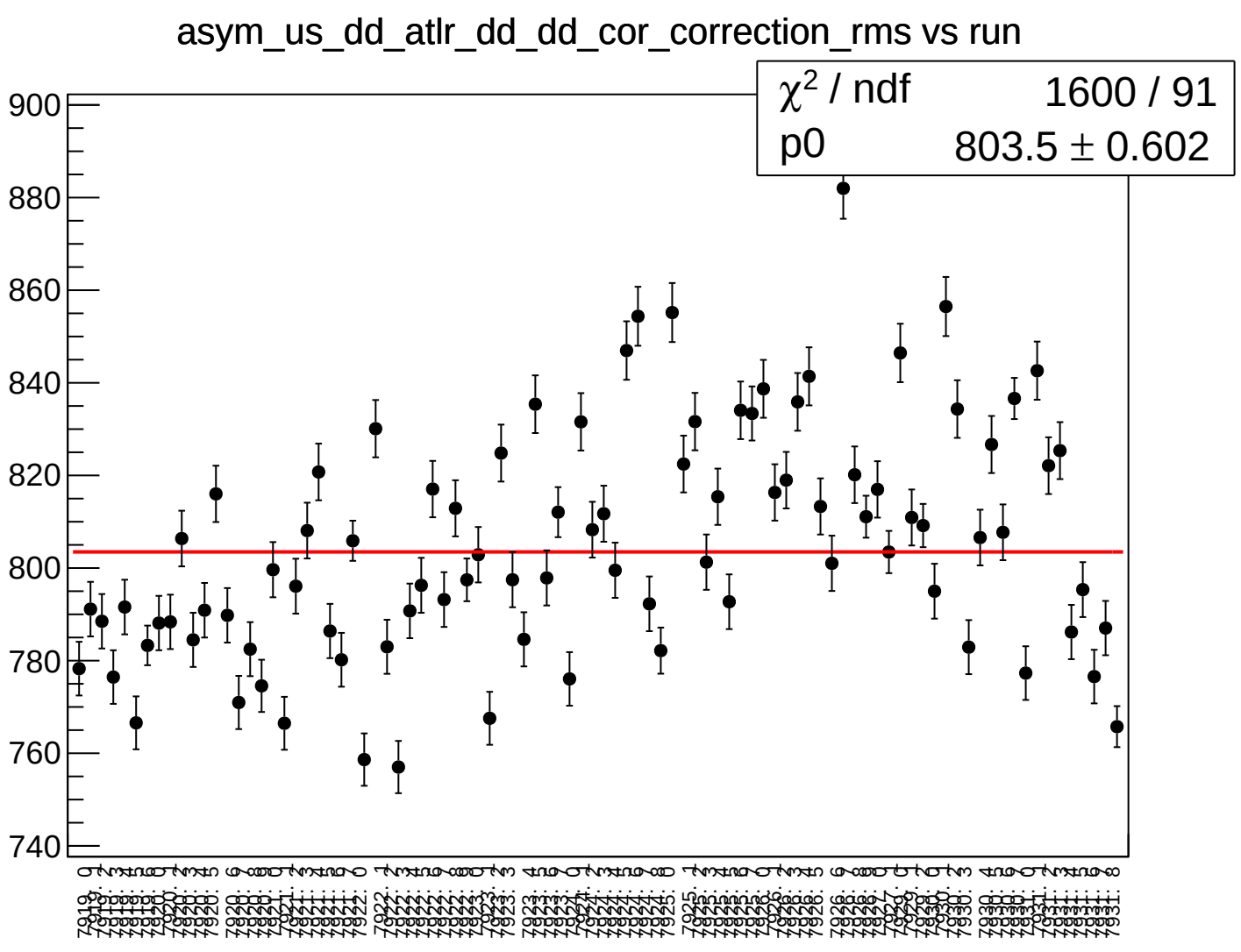

asym_us_dd_atlr_dd_dd_reg_correction_rms vs run
χ² / ndf 1601 / 91
p0 803.5 ± 0.602
900
880
860
840
820
800
780
760
740

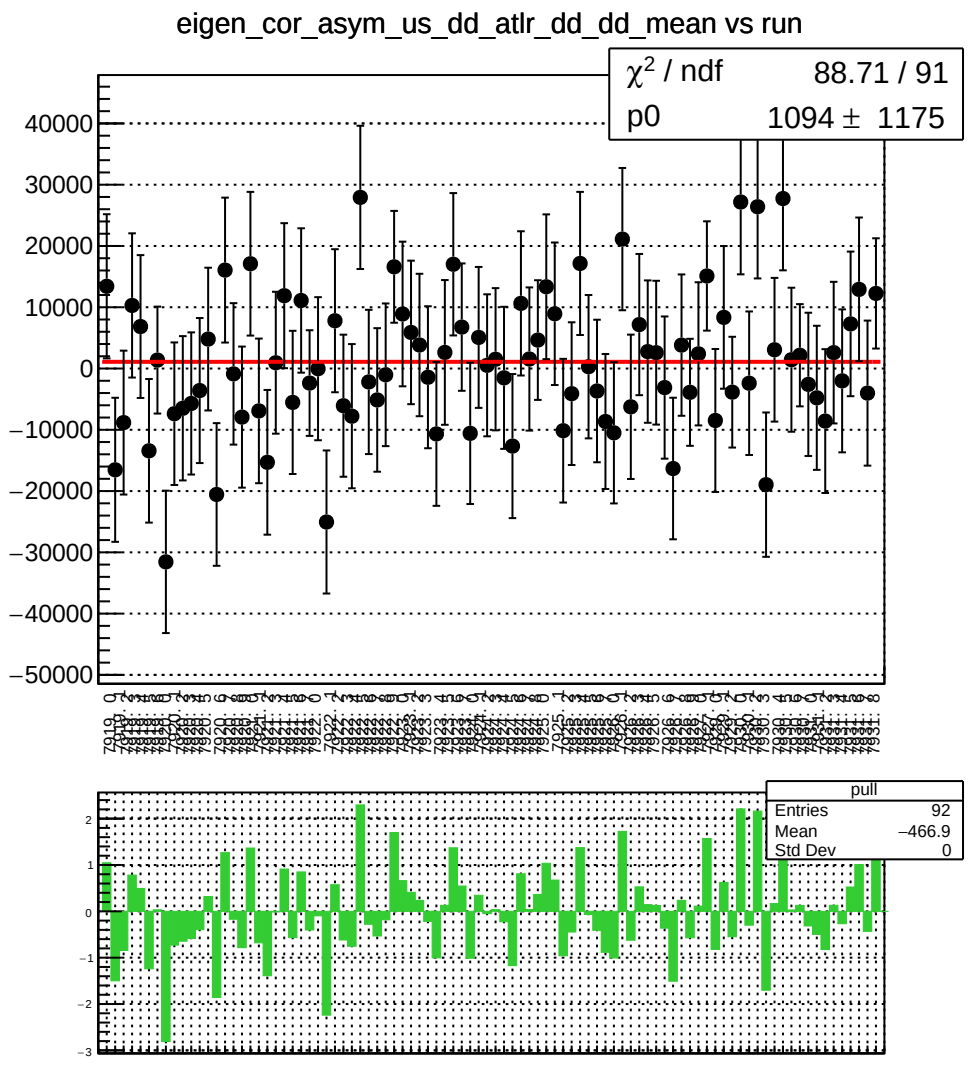

cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 88.71 / 91
p0 1094 ± 1175
pull
Entries 92
Mean −466.9
Std Dev 0
pull1D
Entries 92
Mean −0.009888
Std Dev 0.9819

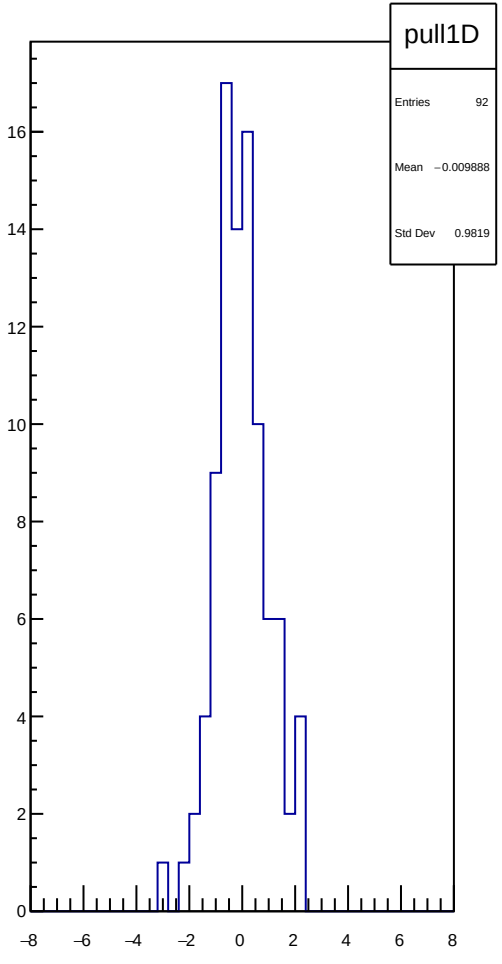

cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 122.5 / 91
p0 1109 ± 0.8308
1140
1130
1120
1110
1100
1090
1080

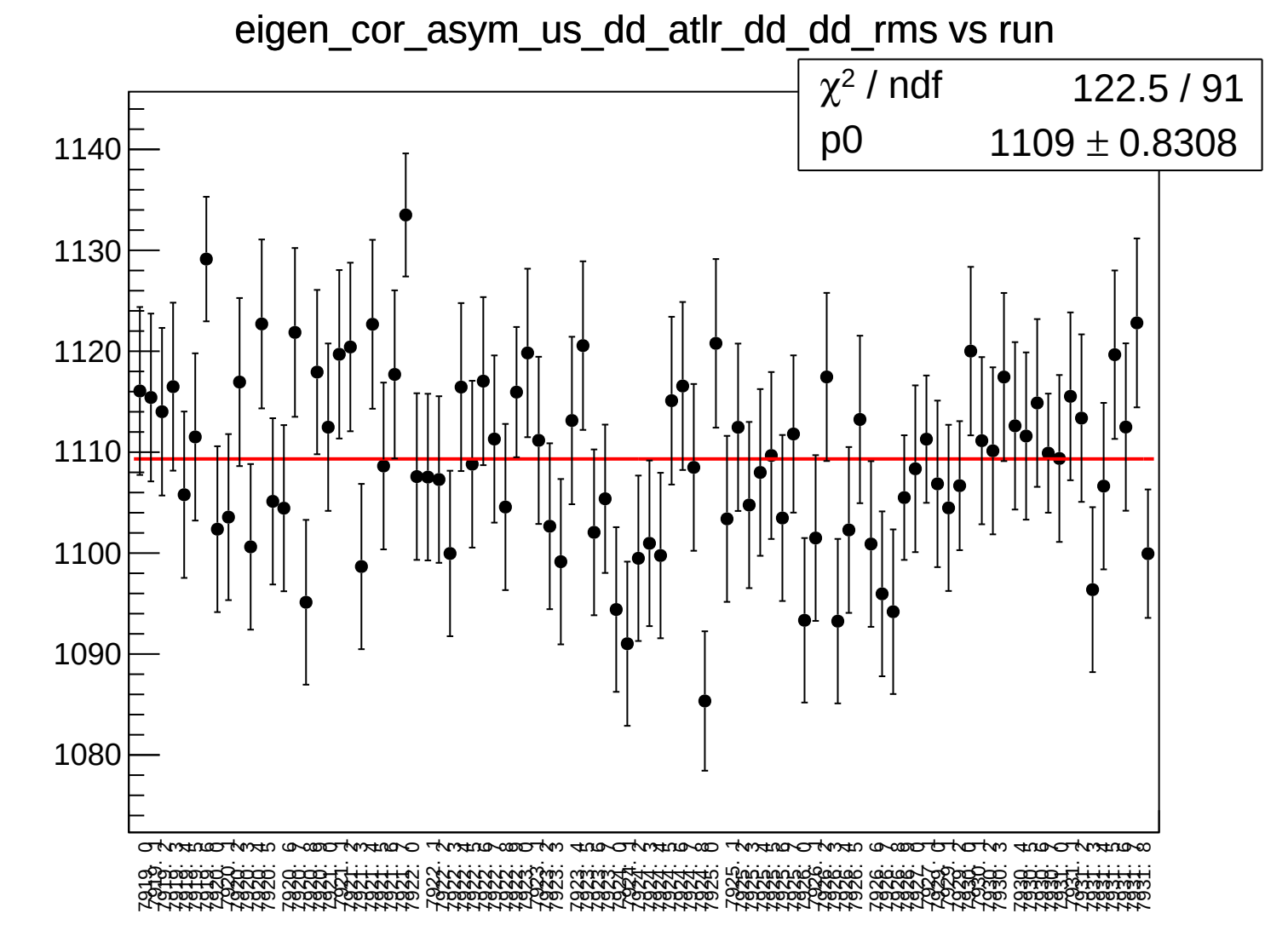

asym_us_dd_atlr_dd_dd_cor_correction_mean vs run
χ² / ndf 73.19 / 91
p0 −609.4 ± 851.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −2570
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

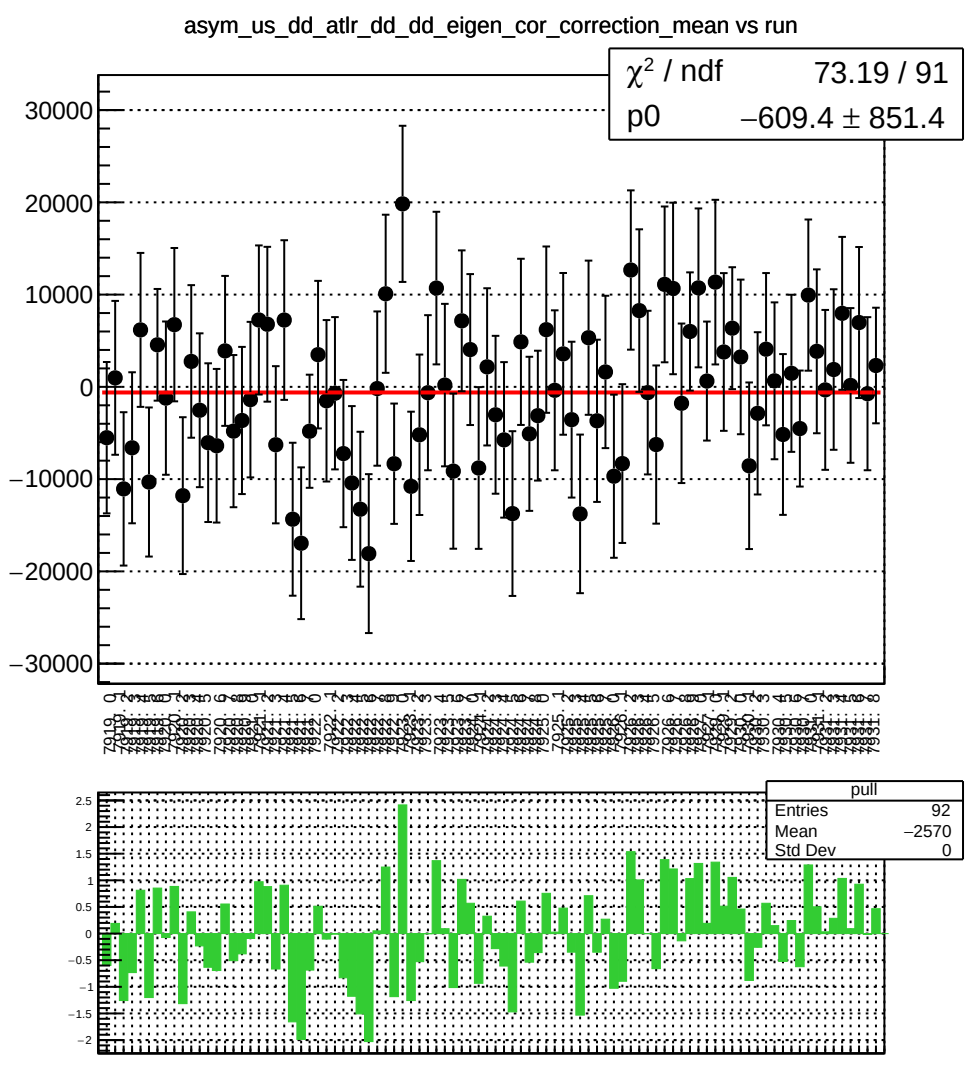

pull1D
Entries 92
Mean −0.002477
Std Dev 0.8919
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

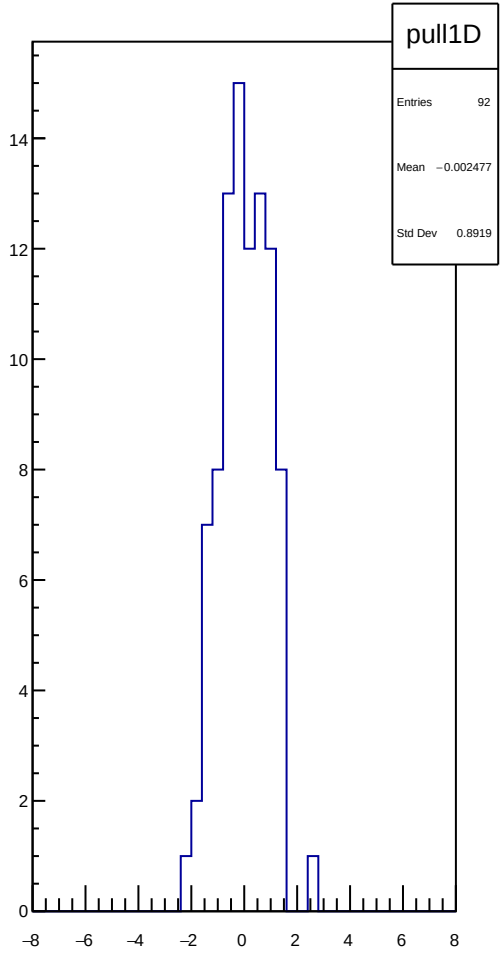

asym_us_dd_atlr_dd_dd_cor_correction_rms vs run
χ² / ndf 1600 / 91
p0 803.5 ± 0.602
900
880
860
840
820
800
780
760
740

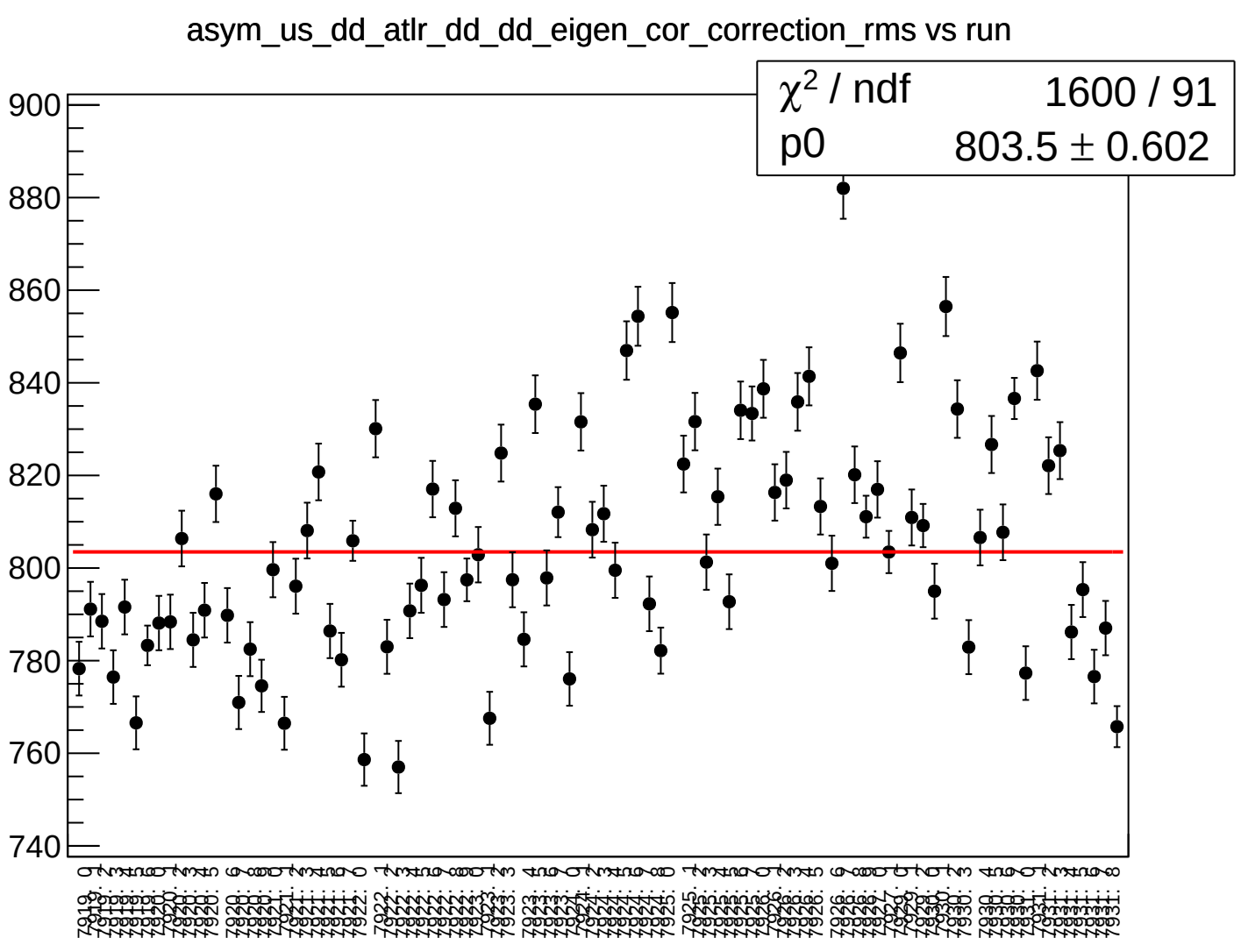

eigen_cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 88.71 / 91
p0 1094 ± 1175
pull
Entries 92
Mean −466.9
Std Dev 0

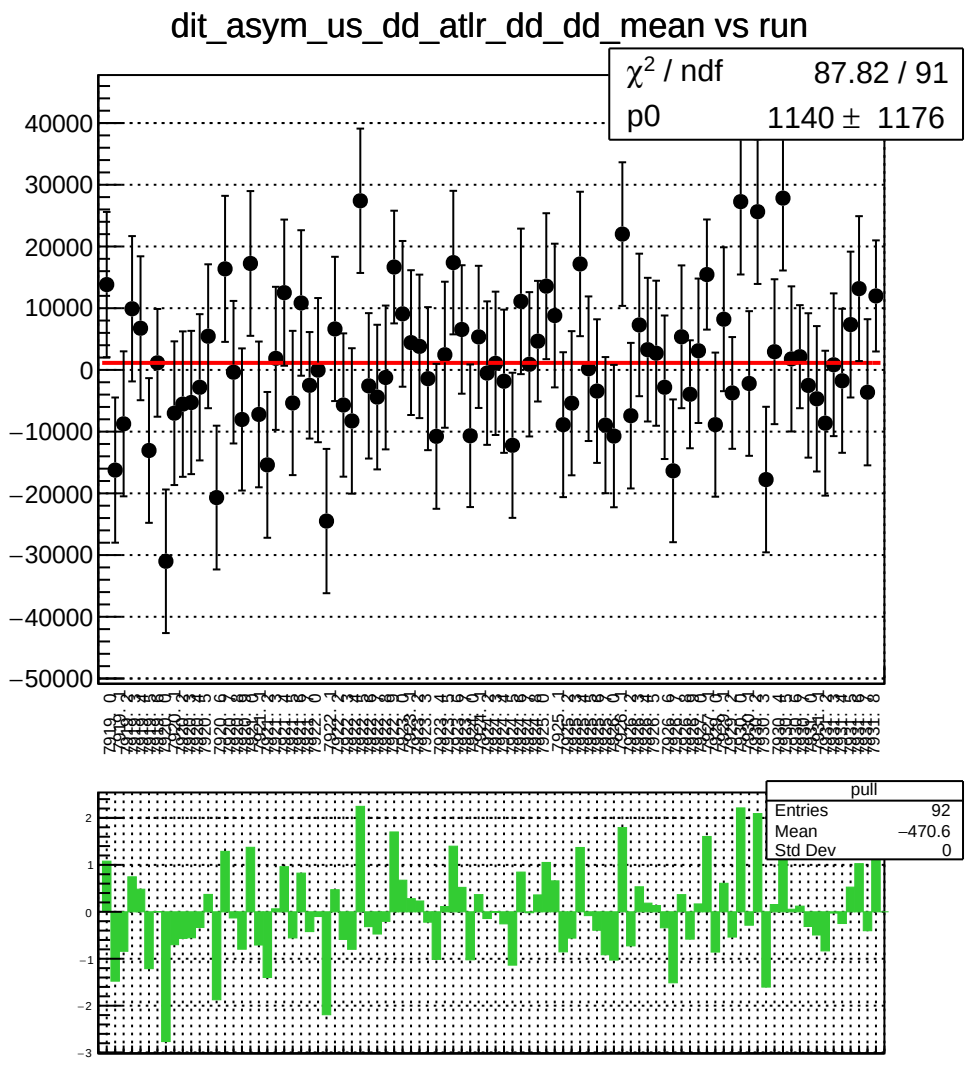

pull1D
Entries 92
Mean −0.009888
Std Dev 0.9819

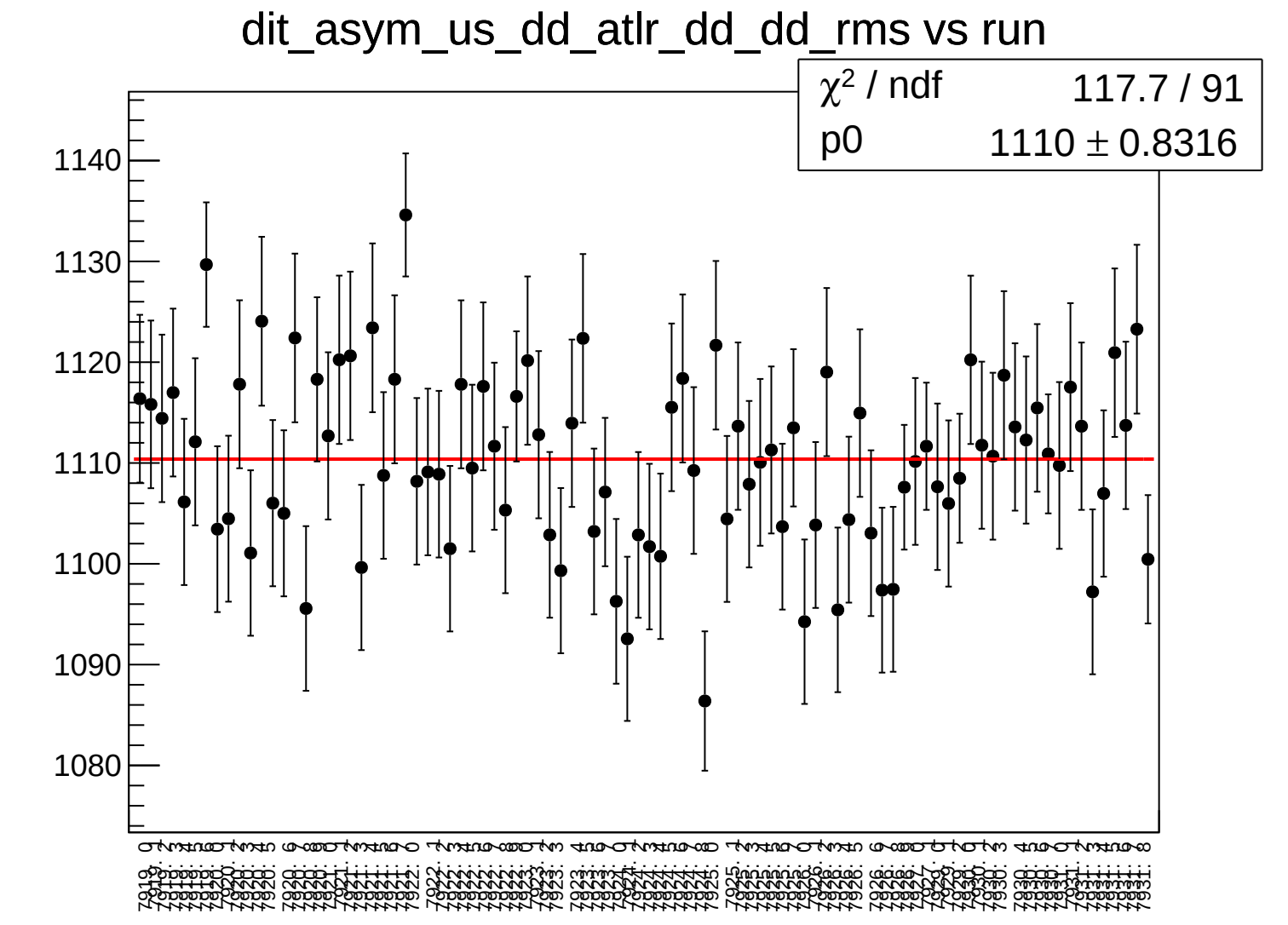

eigen_cor_asym_us_dd_atlr_dd_dd_rms vs run
χ^2 / ndf 122.5 / 91
p0 1109 ± 0.8308
1140
1130
1120
1110
1100
1090
1080

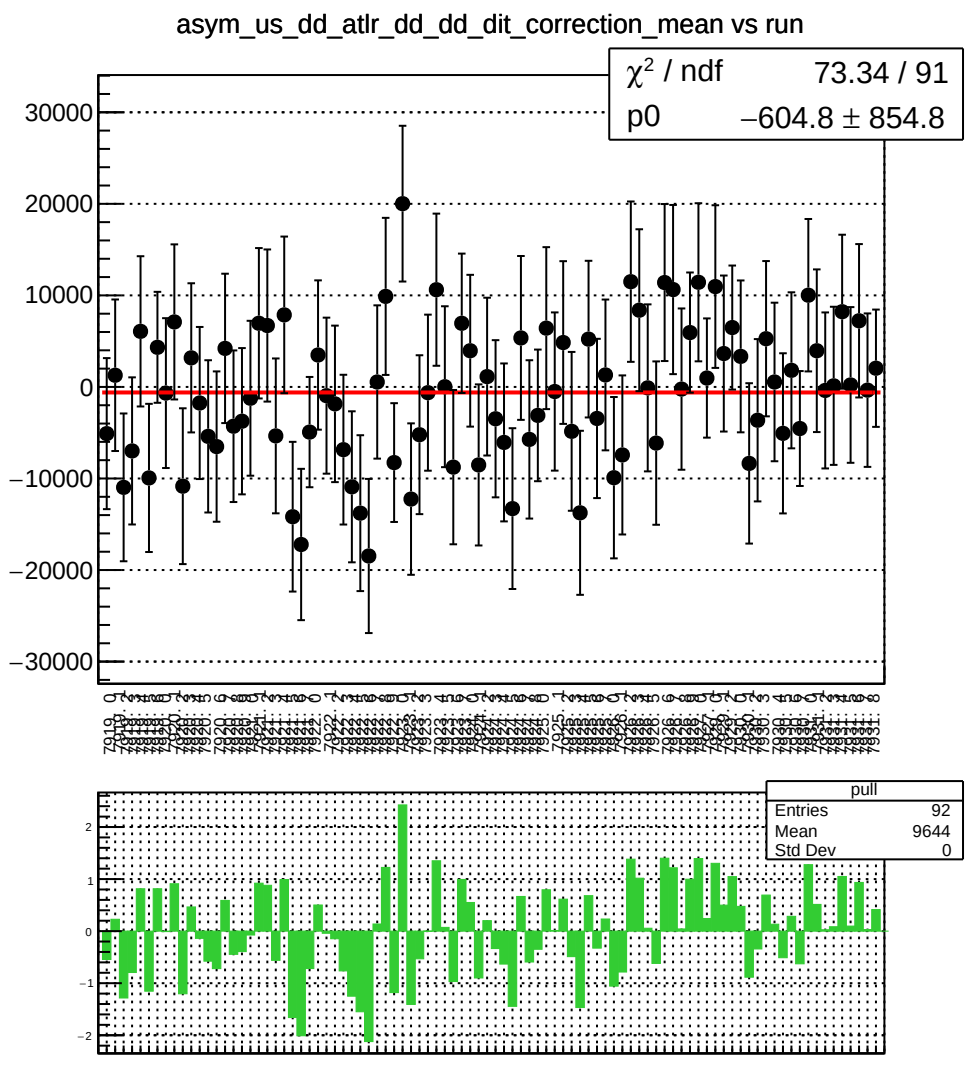

asym_us_dd_atlr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 73.19 / 91
p0 −609.4 ± 851.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −2570
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

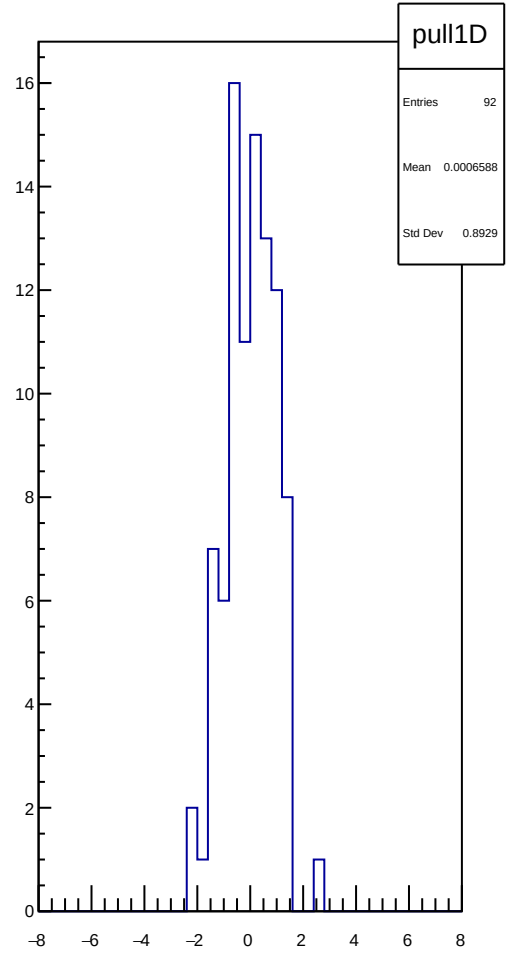

pull1D
Entries 92
Mean −0.002477
Std Dev 0.8919
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

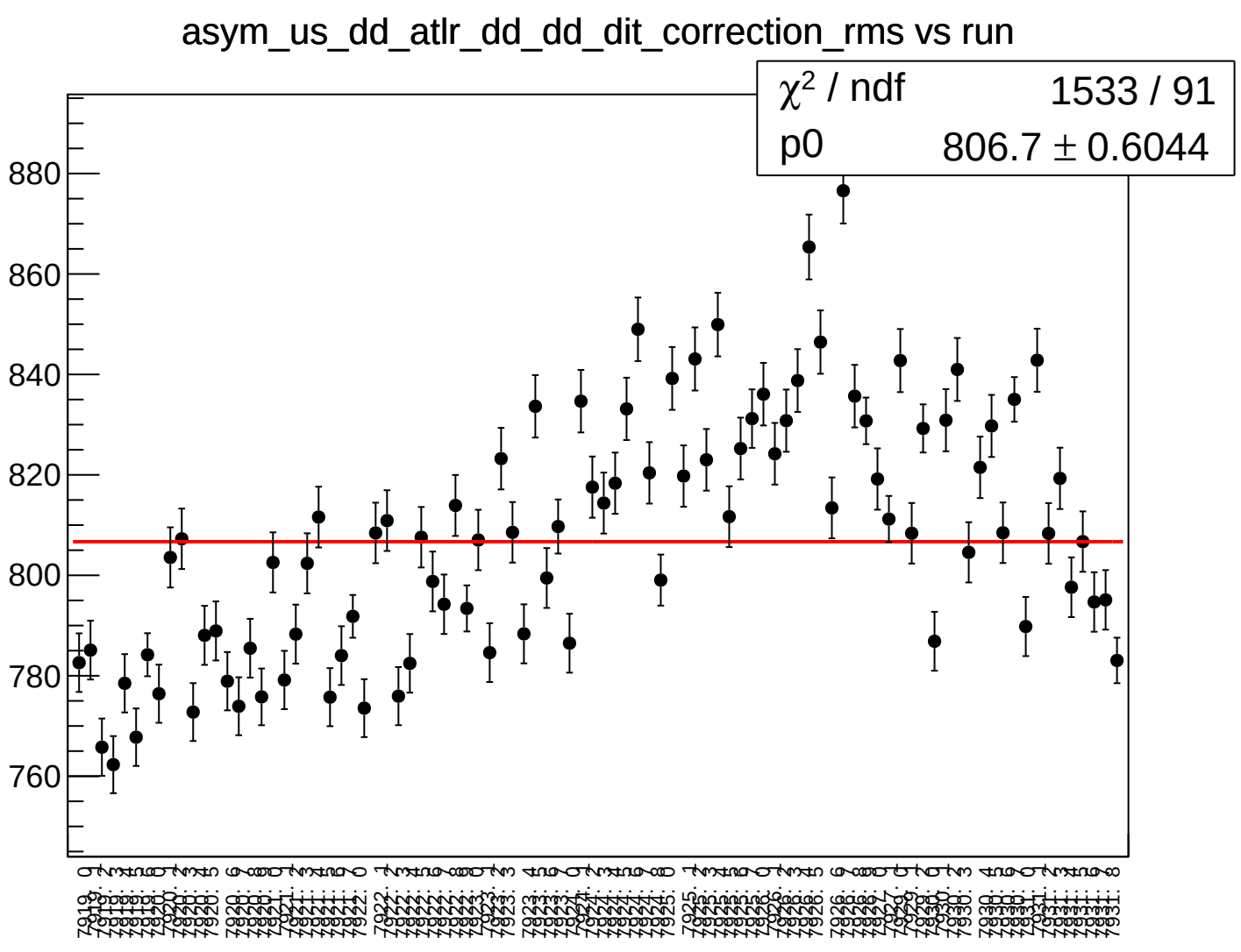

asym_us_dd_atlr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1600 / 91
p0 803.5 ± 0.602
900
880
860
840
820
800
780
760
740

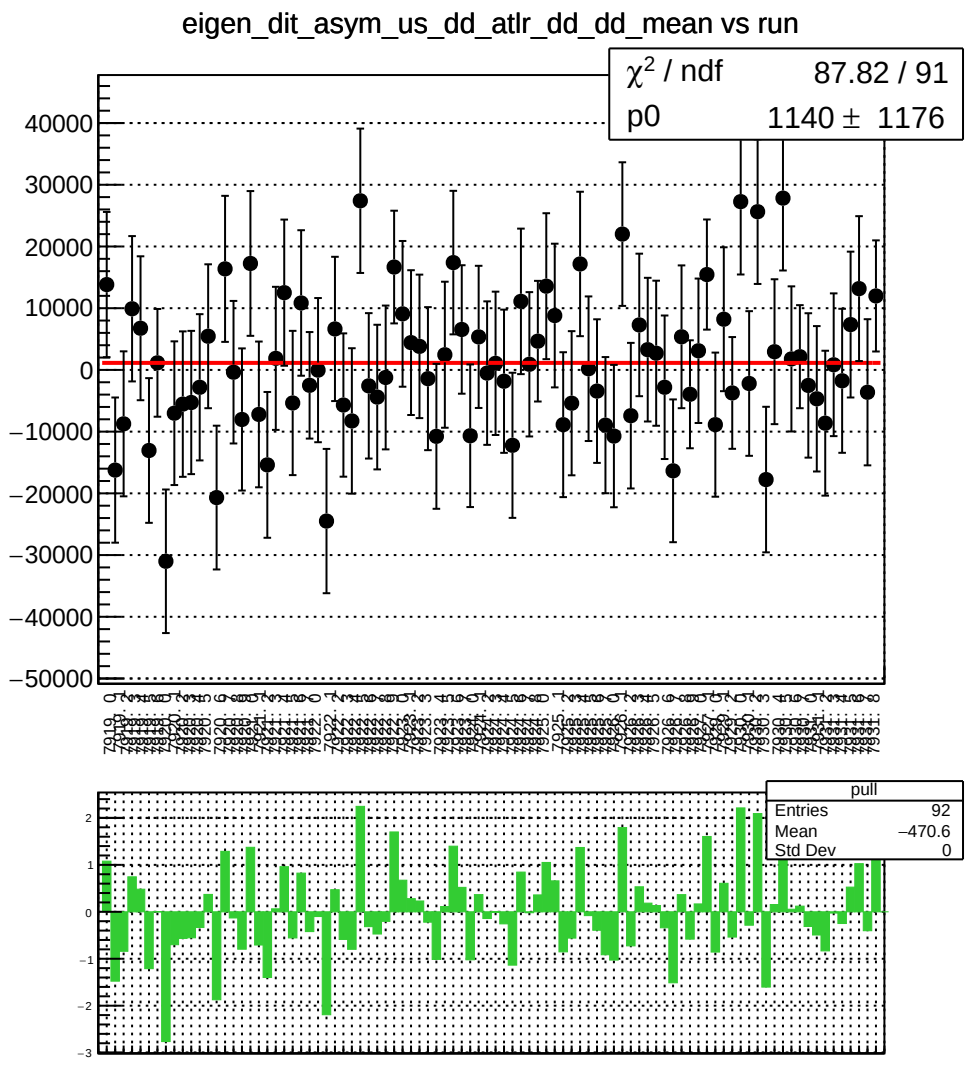

dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 87.82 / 91
p0 1140 ± 1176
pull
Entries 92
Mean −470.6
Std Dev 0
pull1D
Entries 92
Mean −0.0096
Std Dev 0.977

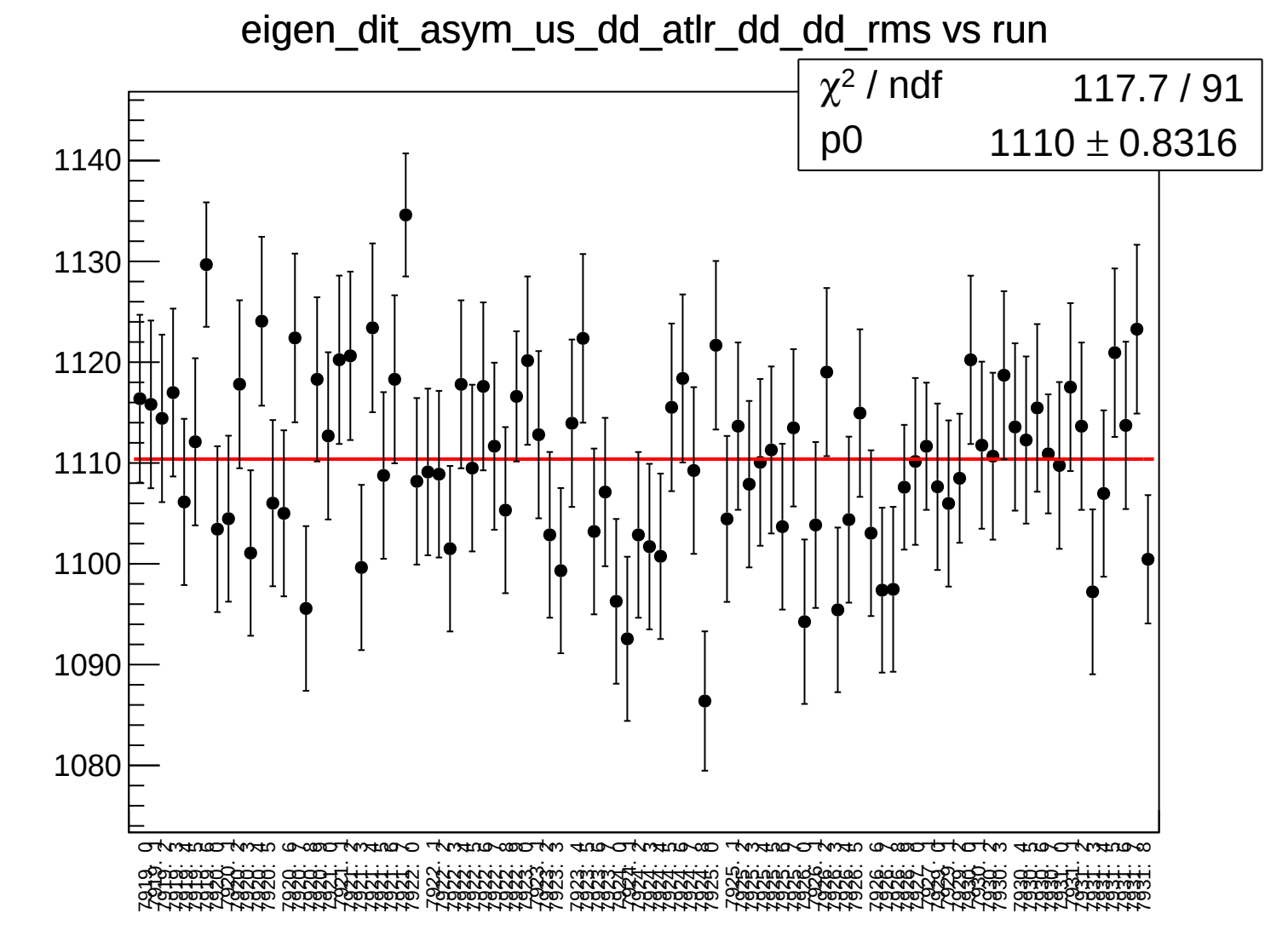

dit_asym_us_dd_atlr_dd_dd_rms vs run
χ^2 / ndf 117.7 / 91
p0 1110 ± 0.8316
1140
1130
1120
1110
1100
1090
1080

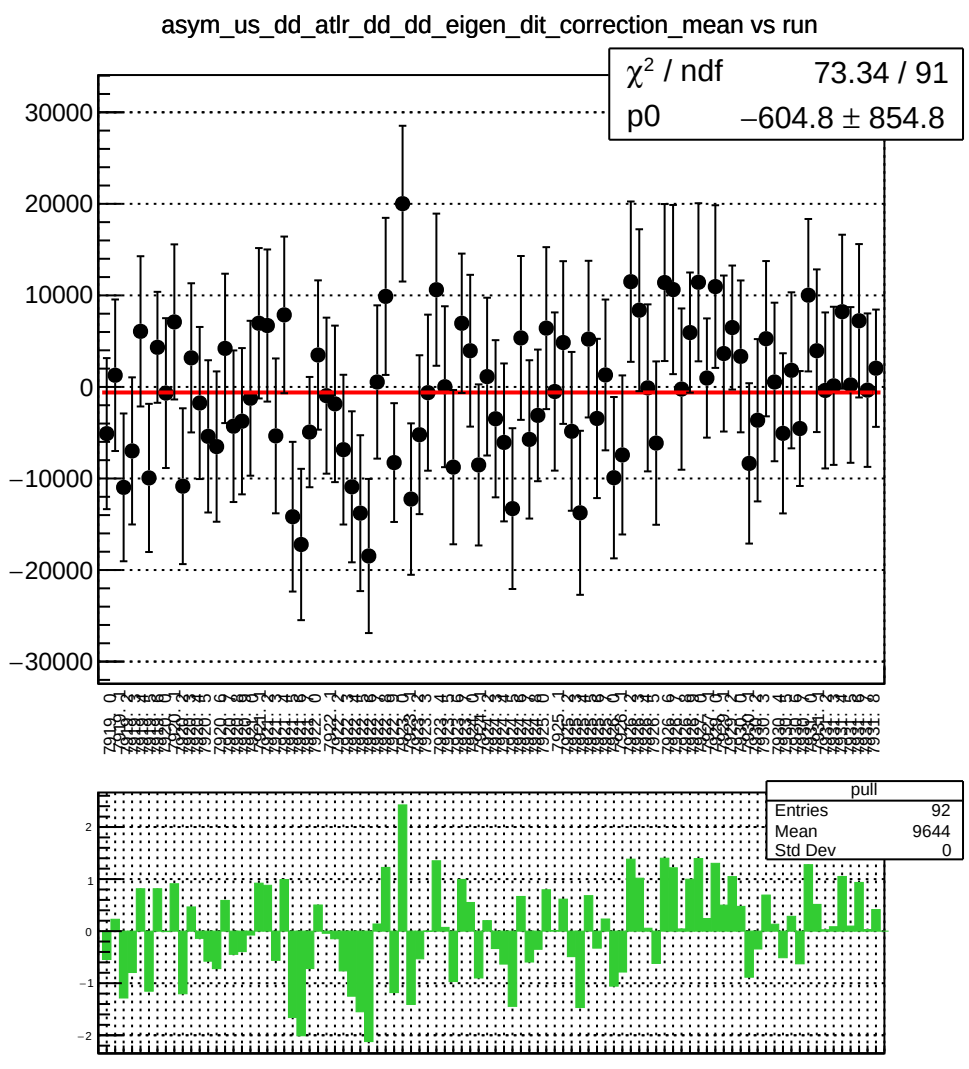

asym_us_dd_atlr_dd_dd_dit_correction_mean vs run
χ² / ndf 73.34 / 91
p0 −604.8 ± 854.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean 9644
Std Dev 0
2
1
0
−1
−2

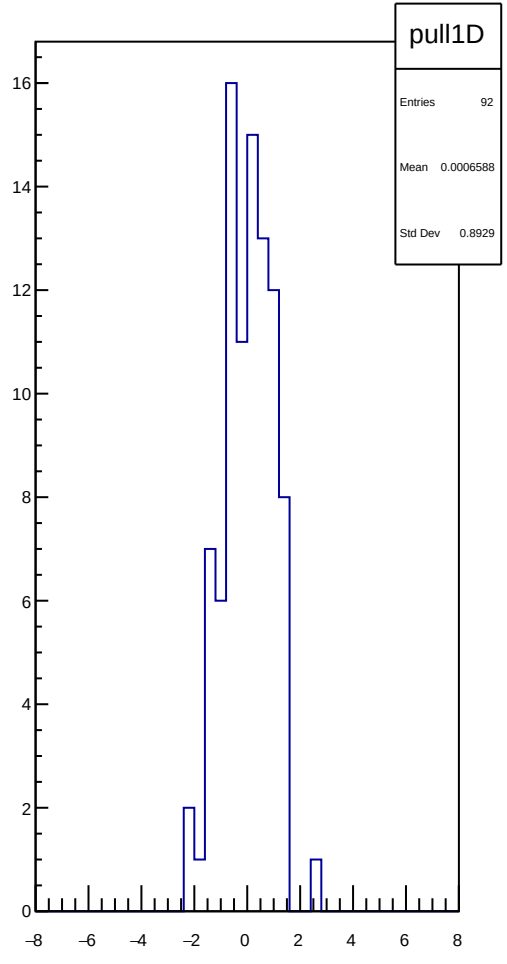

pull1D
Entries 92
Mean 0.0006588
Std Dev 0.8929
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

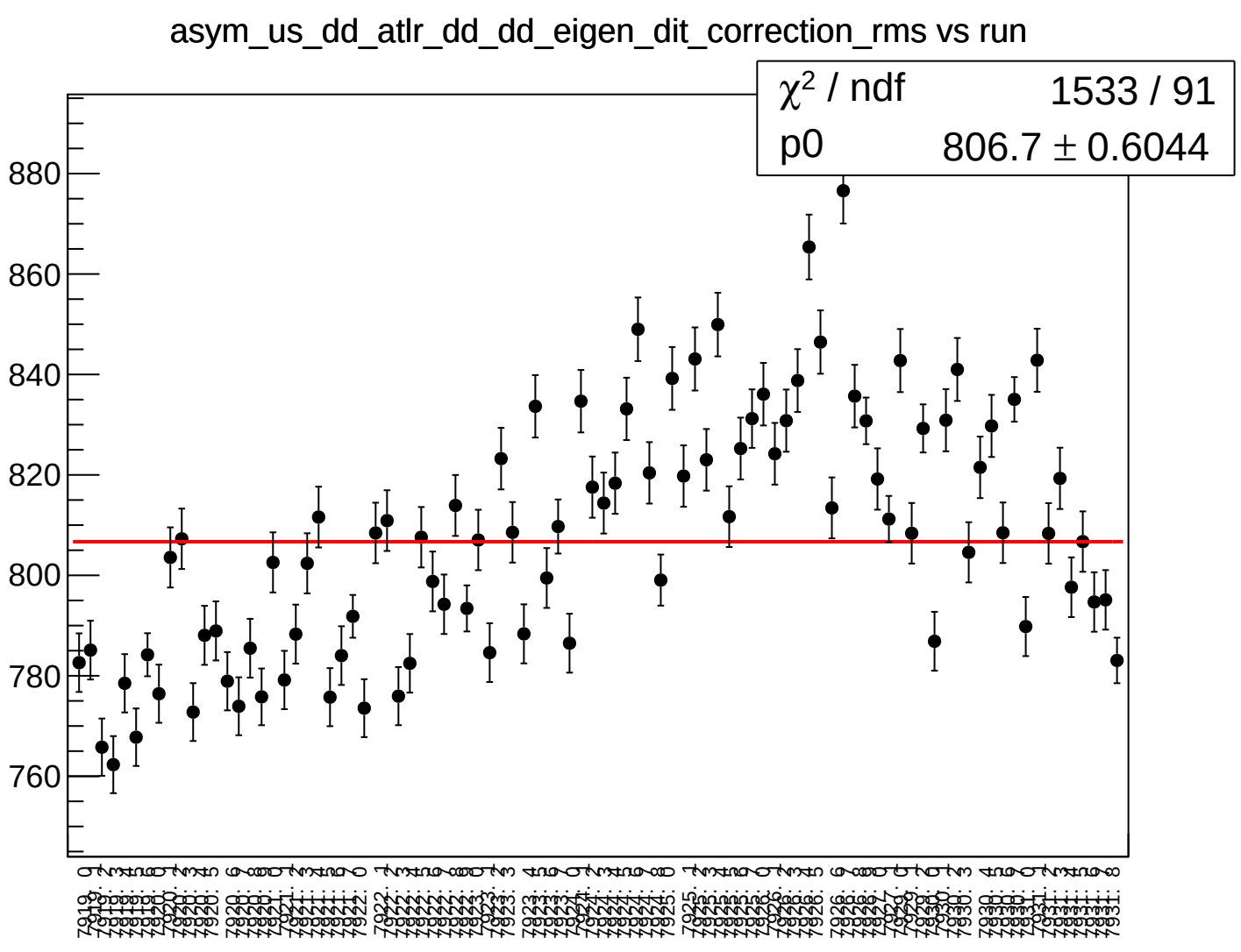

asym_us_dd_atlr_dd_dd_dit_correction_rms vs run
χ² / ndf 1533 / 91
p0 806.7 ± 0.6044
880
860
840
820
800
780
760

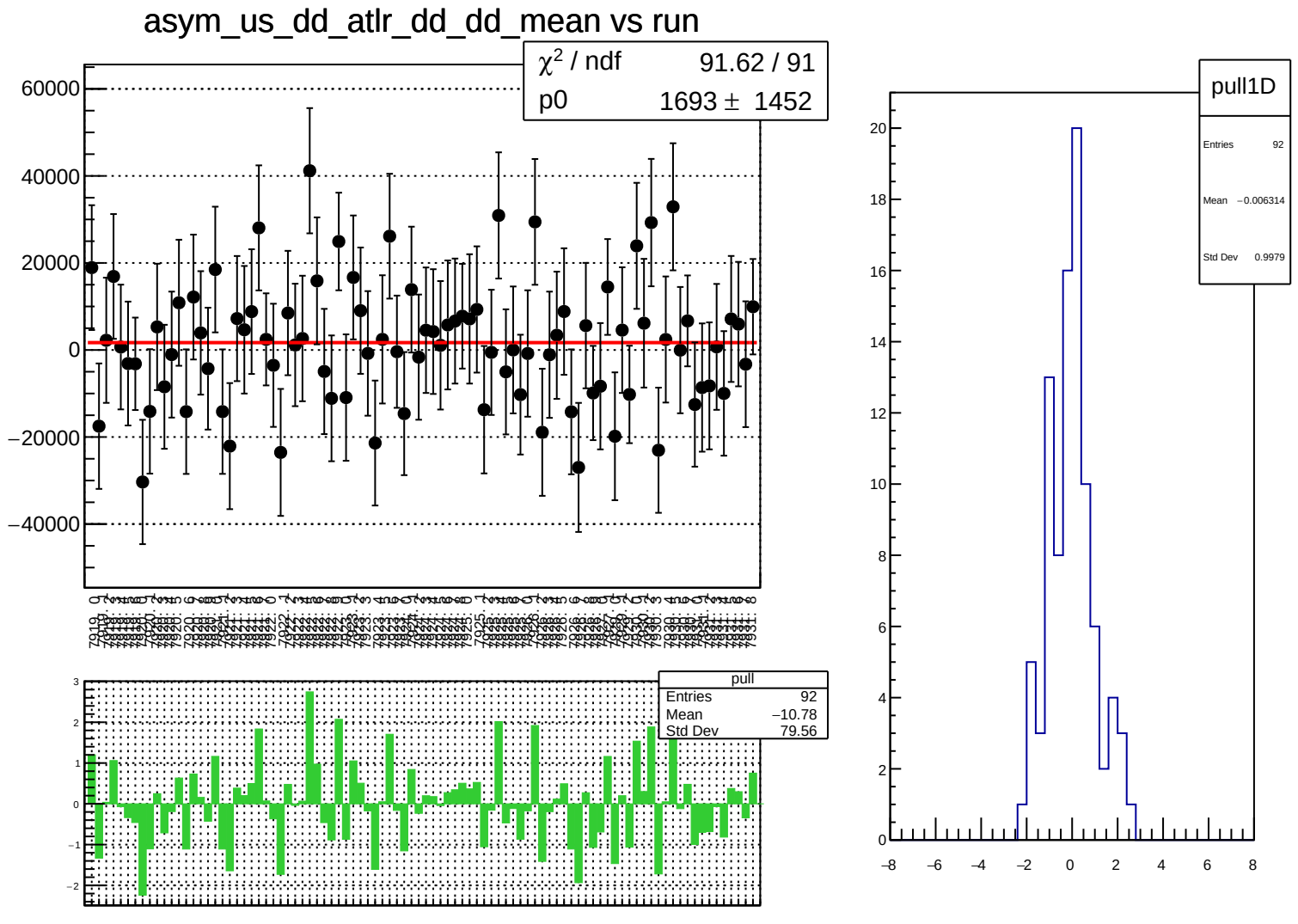

eigen_dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 87.82 / 91
p0 1140 ± 1176
pull
Entries 92
Mean −470.6
Std Dev 0
pull1D
Entries 92
Mean −0.0096
Std Dev 0.977

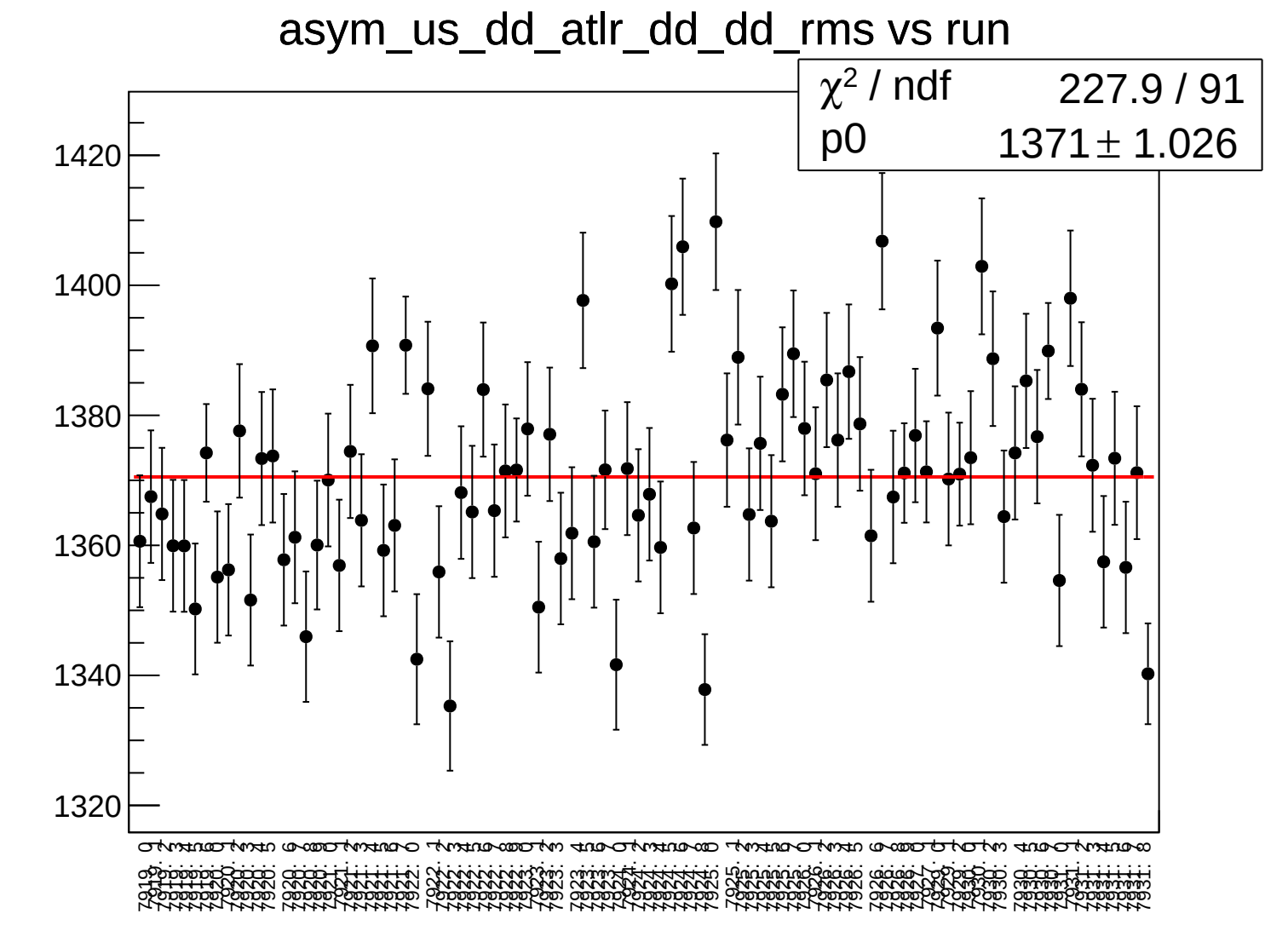

eigen_dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 117.7 / 91
p0 1110 ± 0.8316
1140
1130
1120
1110
1100
1090
1080

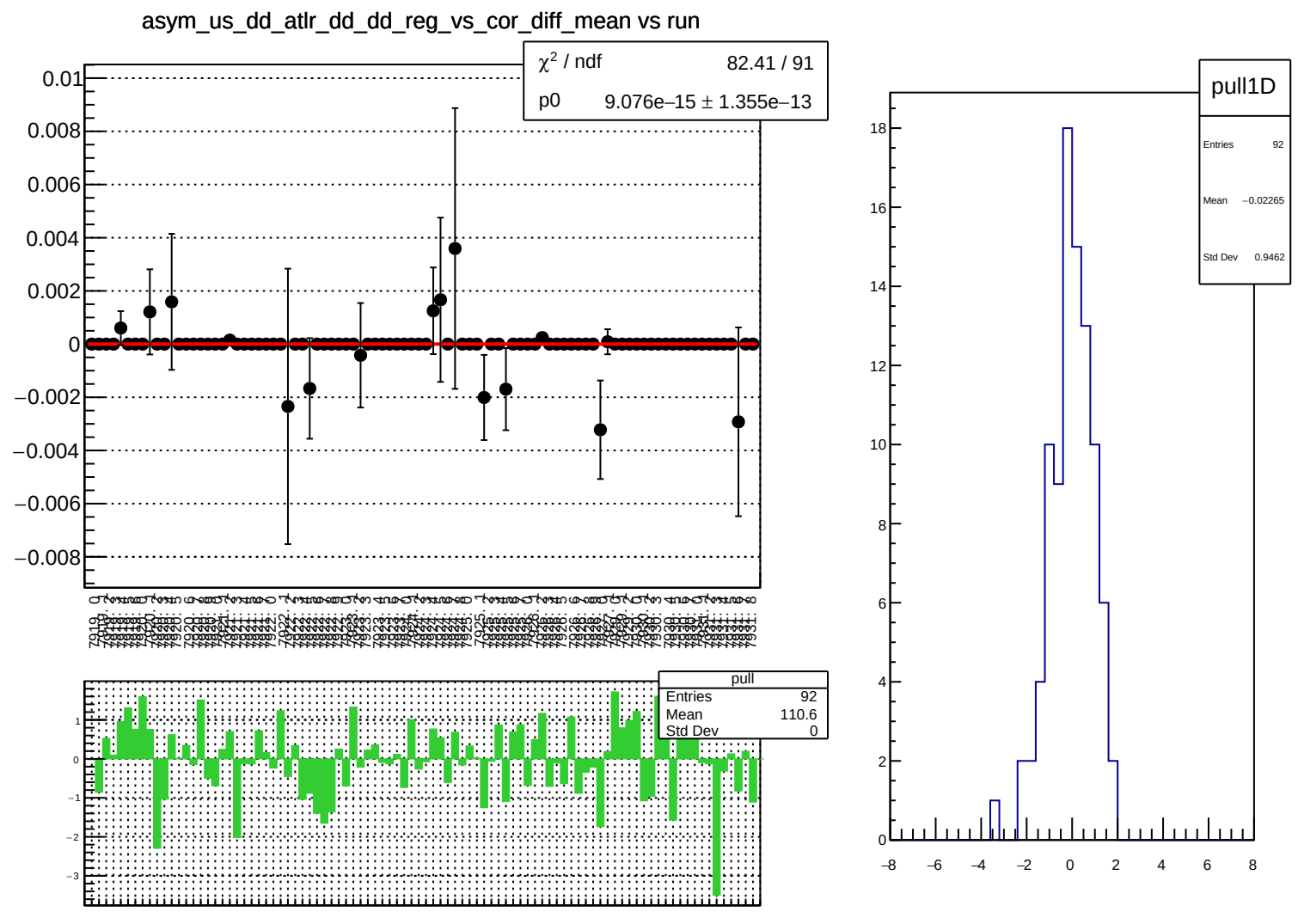

asym_us_dd_atlr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 73.34 / 91
p0 −604.8 ± 854.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean 9644
Std Dev 0
2
1
0
−1
−2

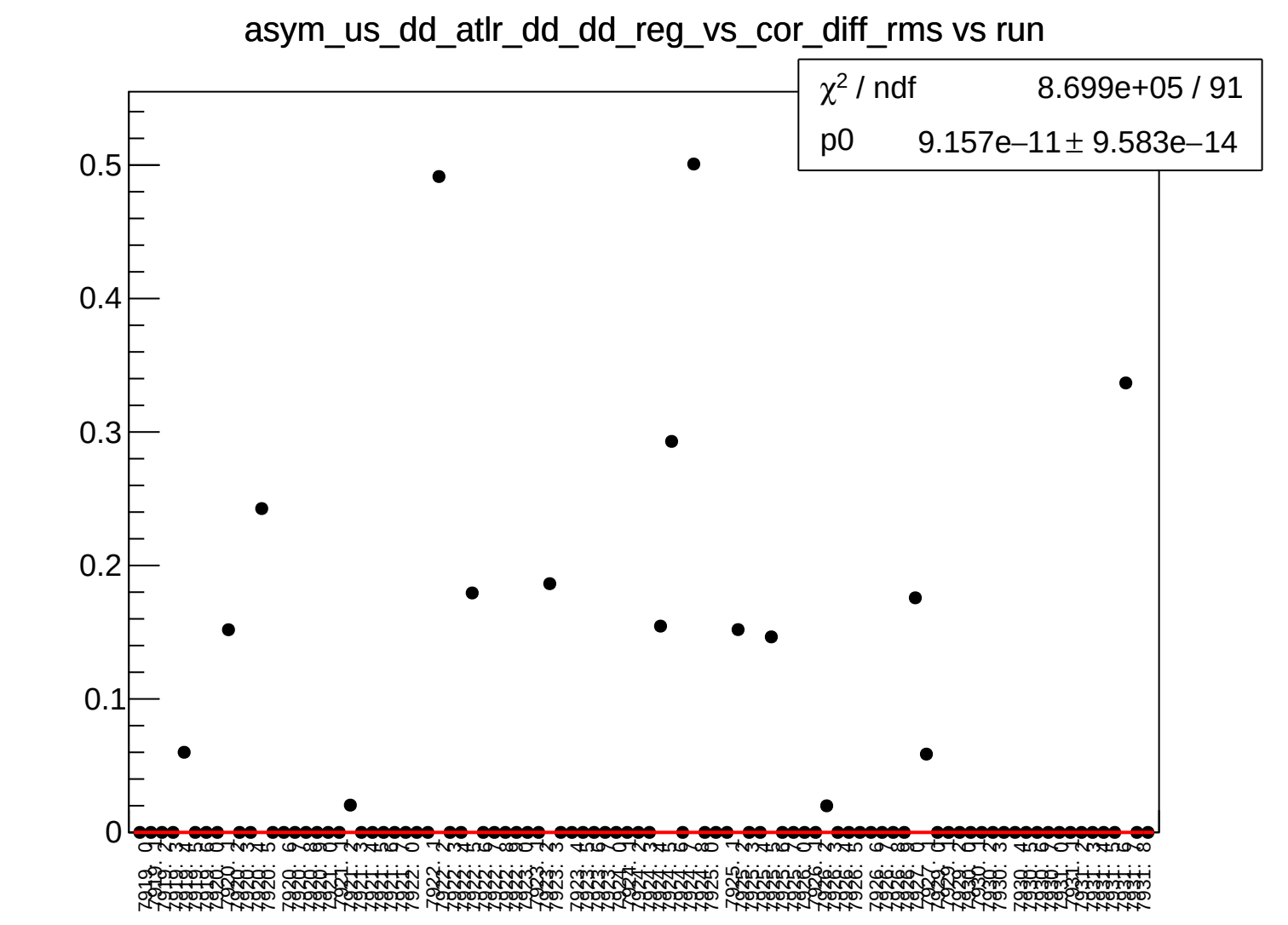

pull1D
Entries 92
Mean 0.0006588
Std Dev 0.8929
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

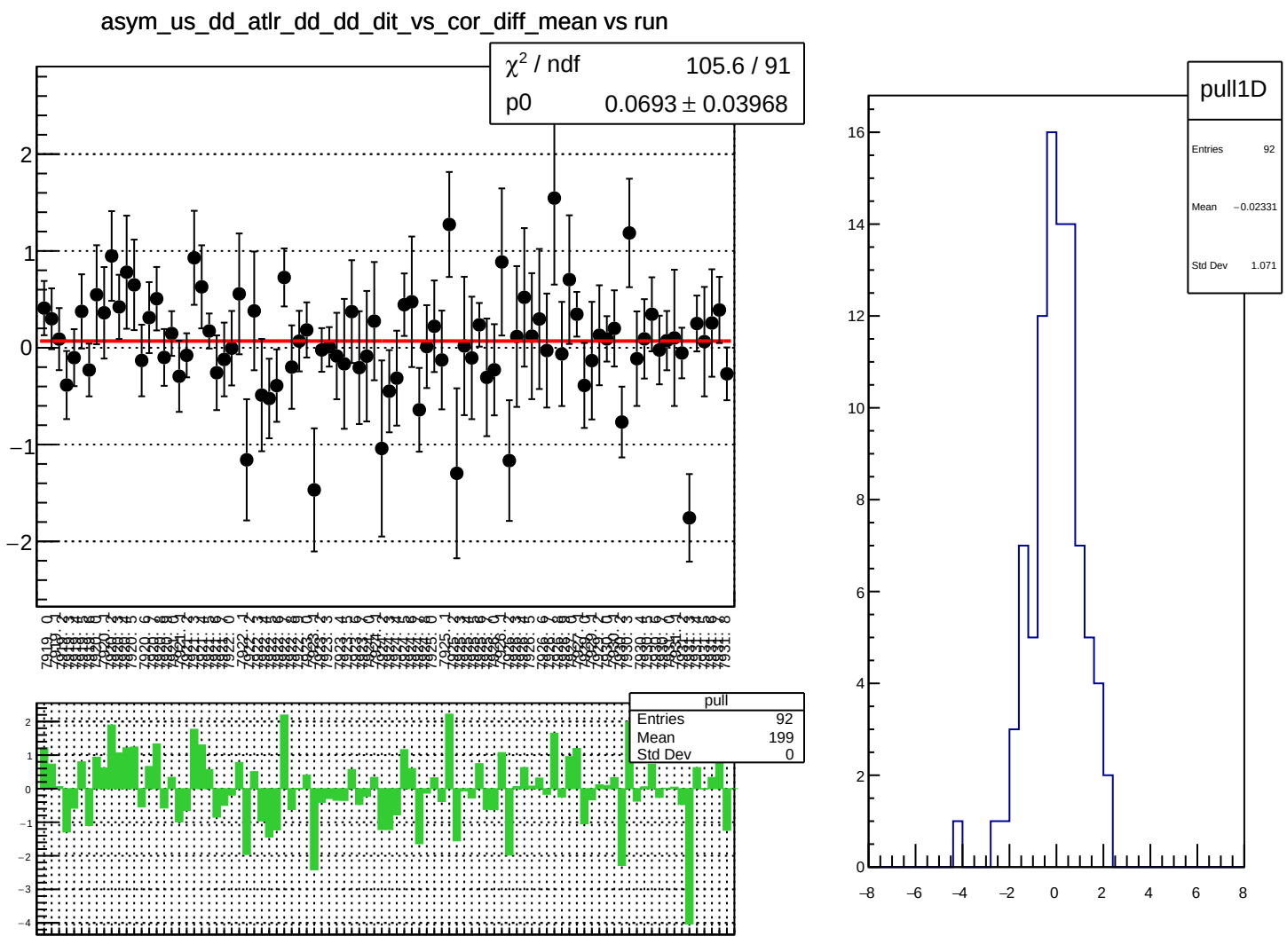

asym_us_dd_atlr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1533 / 91
p0 806.7 ± 0.6044
880
860
840
820
800
780
760

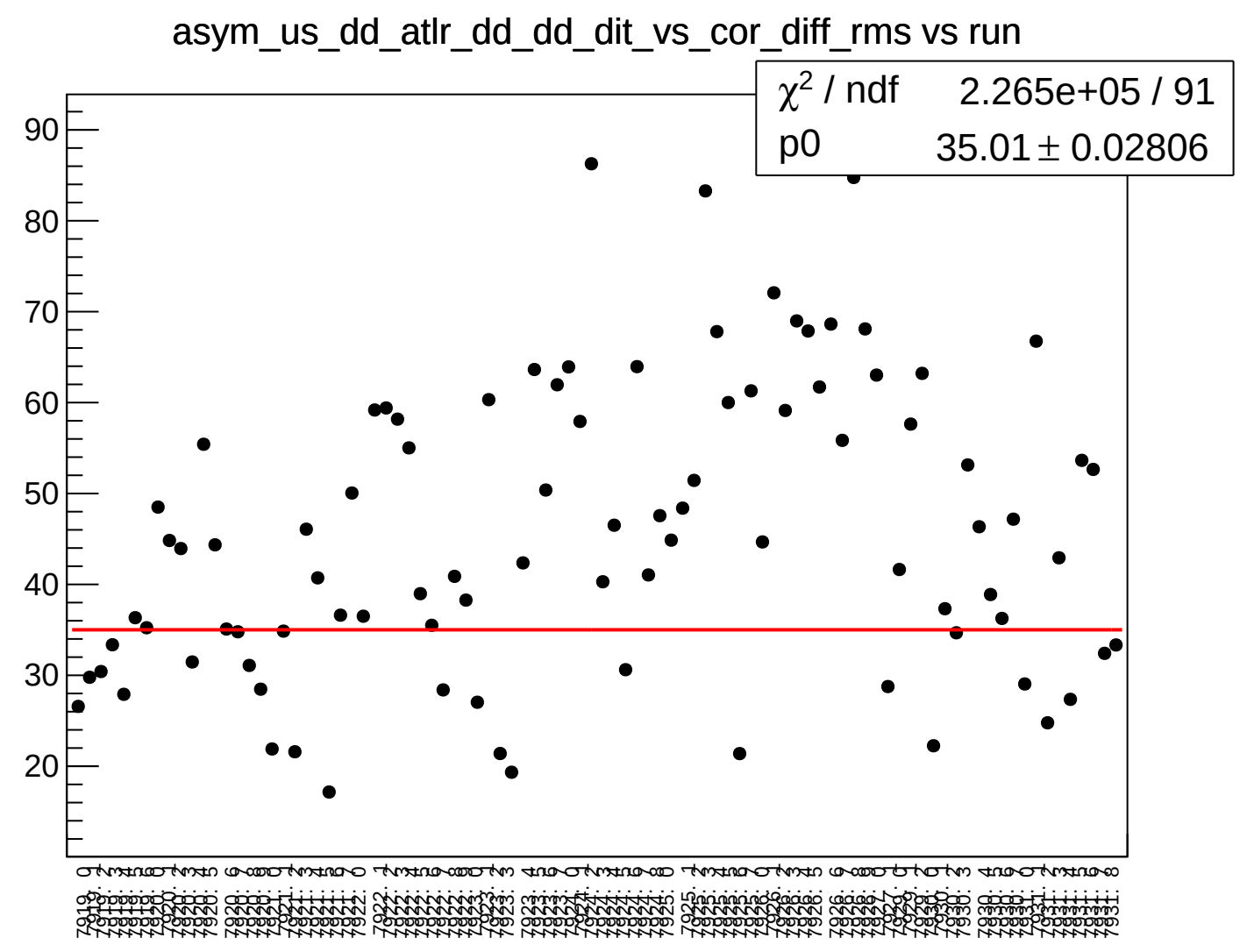

asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 91.62 / 91
p0 1693 ± 1452
60000
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −10.78
Std Dev 79.56
3
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.006314
Std Dev 0.9979
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

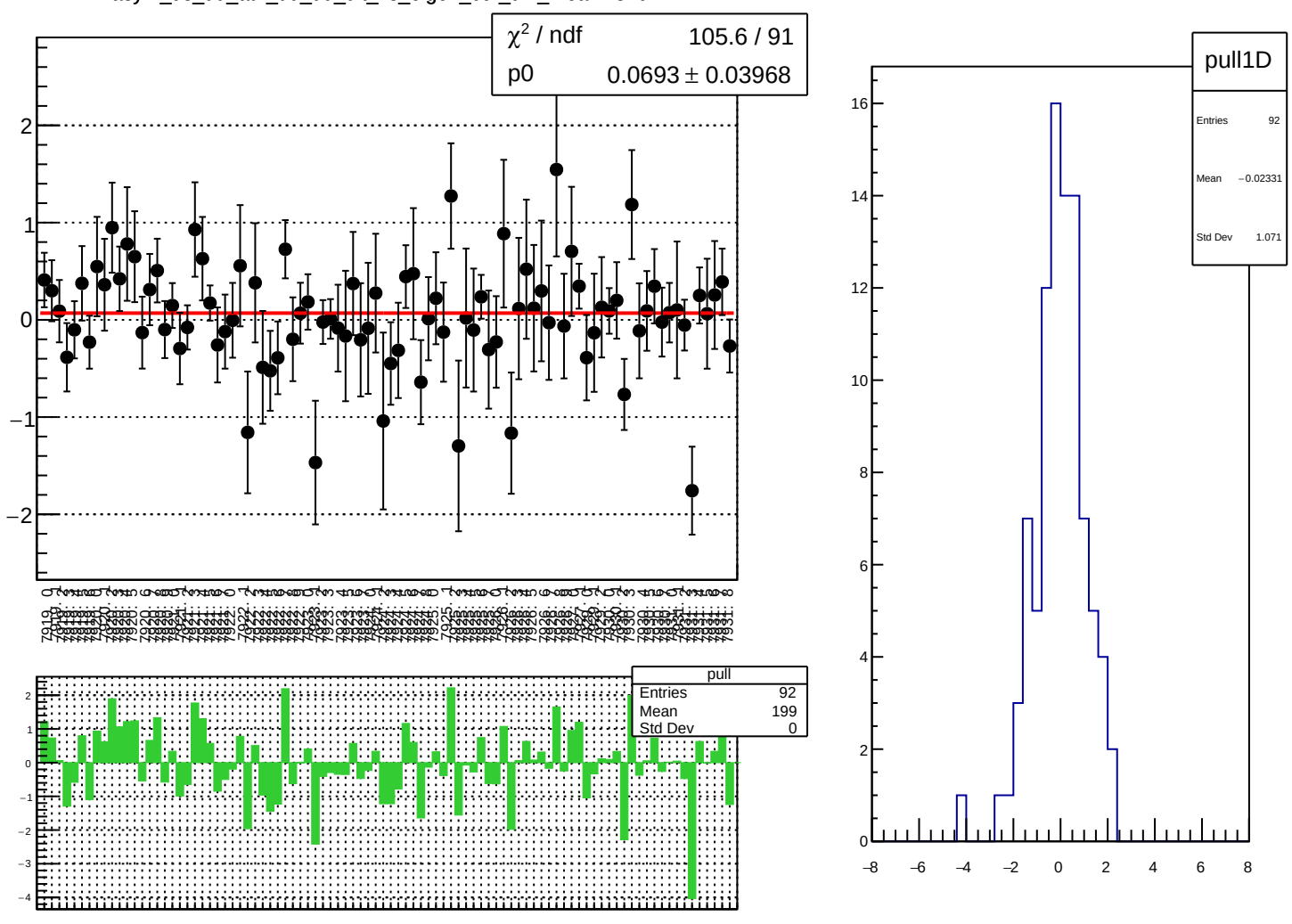

asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 227.9 / 91
p0 1371 ± 1.026
1420
1400
1380
1360
1340
1320

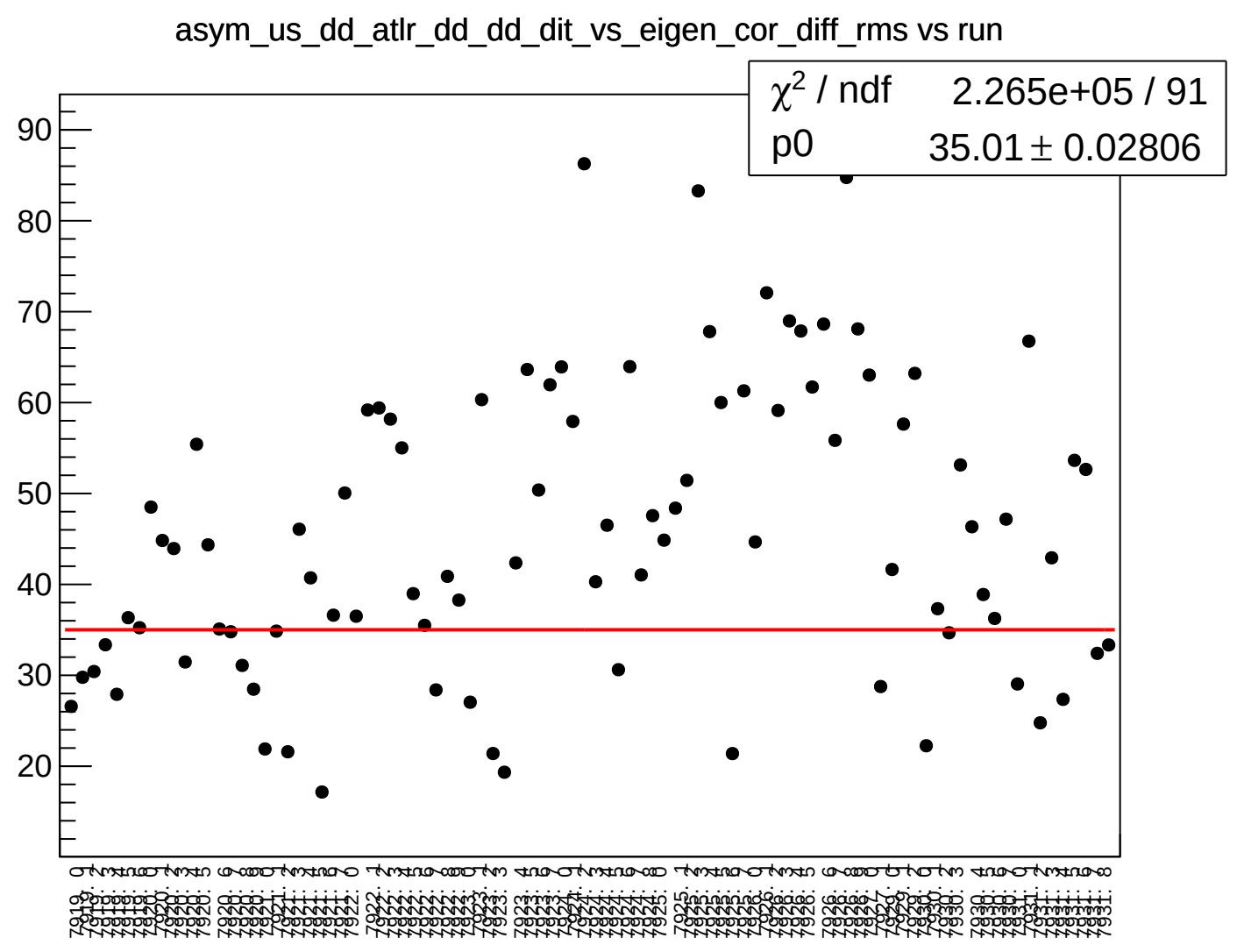

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 82.41 / 91
p0 9.076e−15 ± 1.355e−13
0.01
0.008
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
pull
Entries 92
Mean 110.6
Std Dev 0
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.02265
Std Dev 0.9462
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

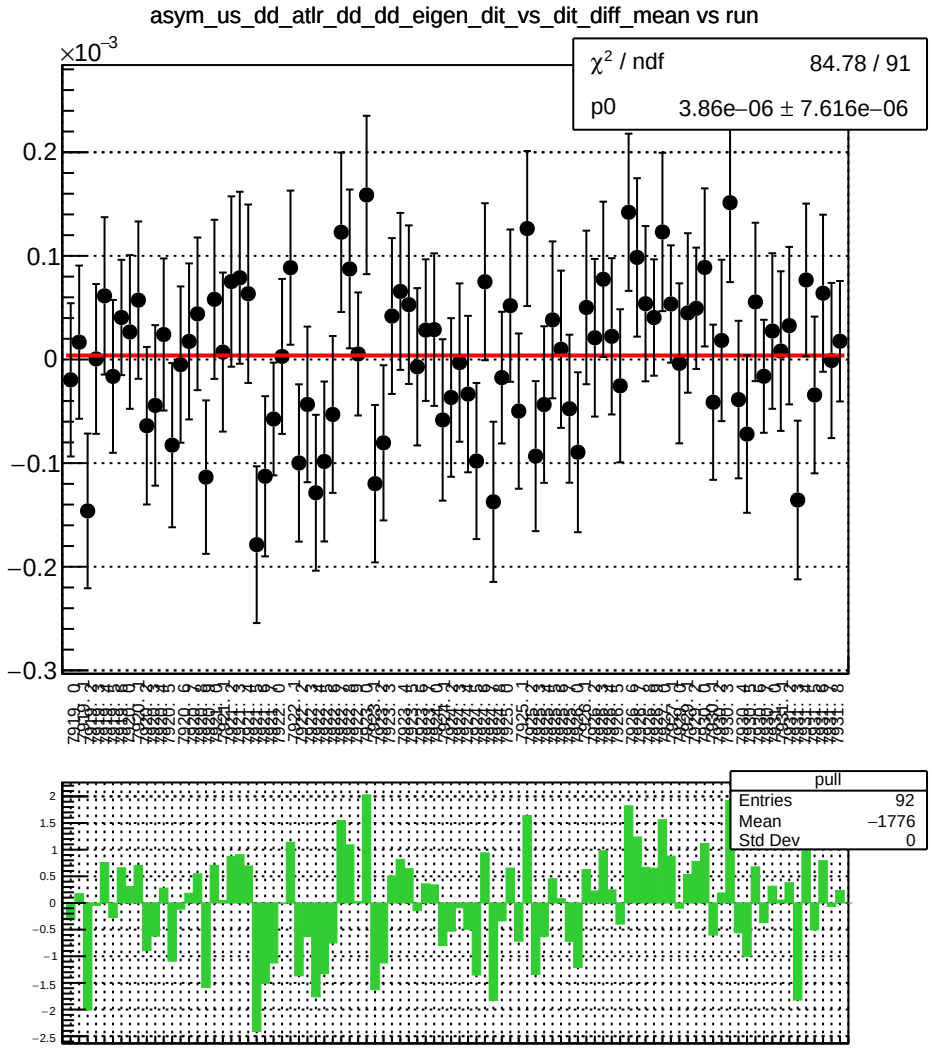

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.699e+05 / 91
p0 9.157e−11 ± 9.583e−14
0.5
0.4
0.3
0.2
0.1
0

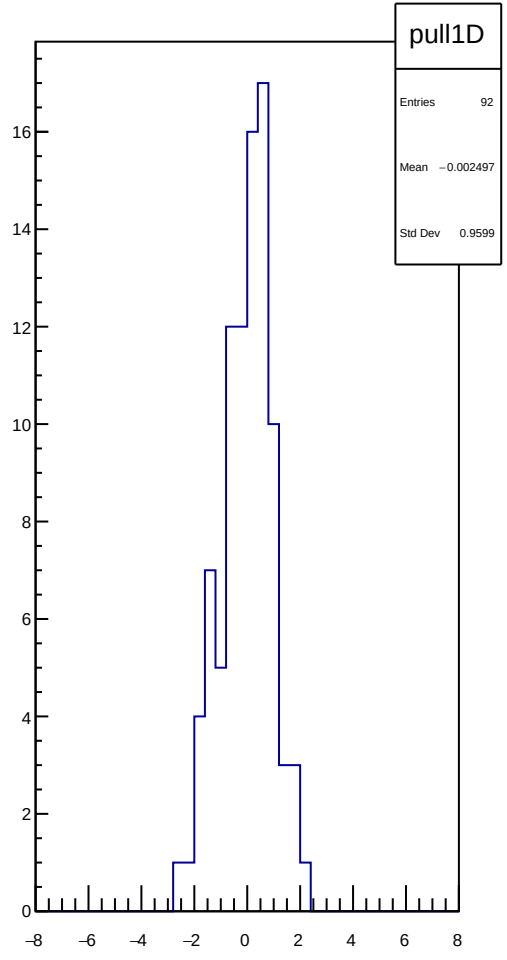

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 105.6 / 91
p0 0.0693 ± 0.03968
pull
Entries 92
Mean 199
Std Dev 0
pull1D
Entries 92
Mean −0.02331
Std Dev 1.071

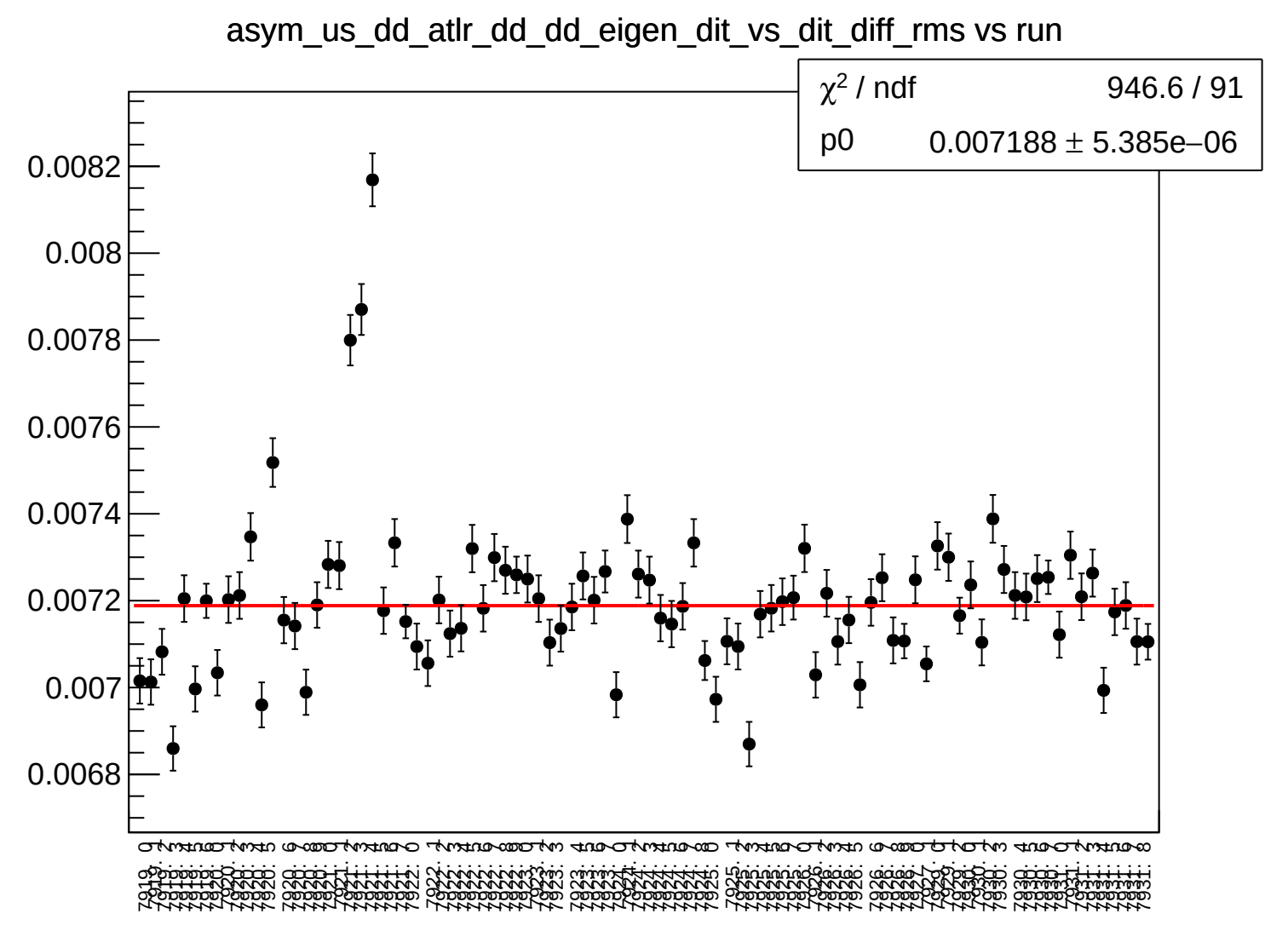

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.265e+05 / 91
p0 35.01 ± 0.02806
90
80
70
60
50
40
30
20

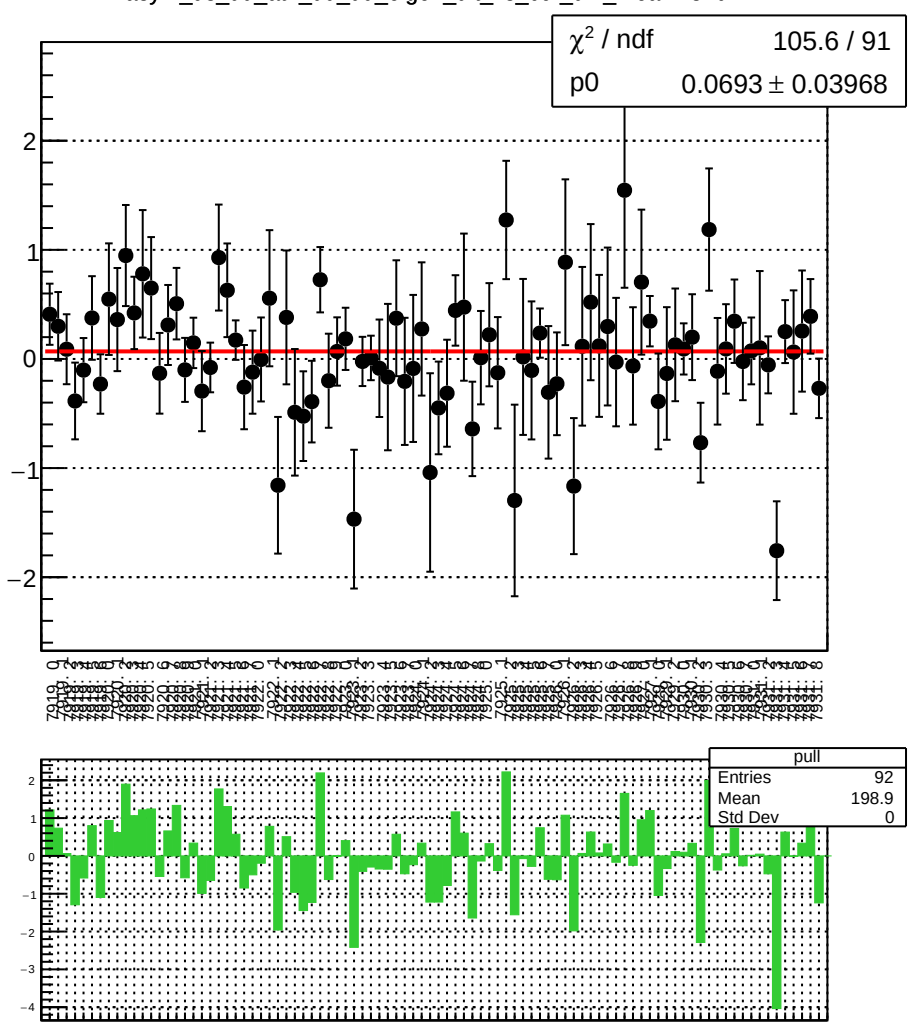

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.6 / 91
p0 0.0693 ± 0.03968
pull
Entries 92
Mean 199
Std Dev 0
pull1D
Entries 92
Mean −0.02331
Std Dev 1.071

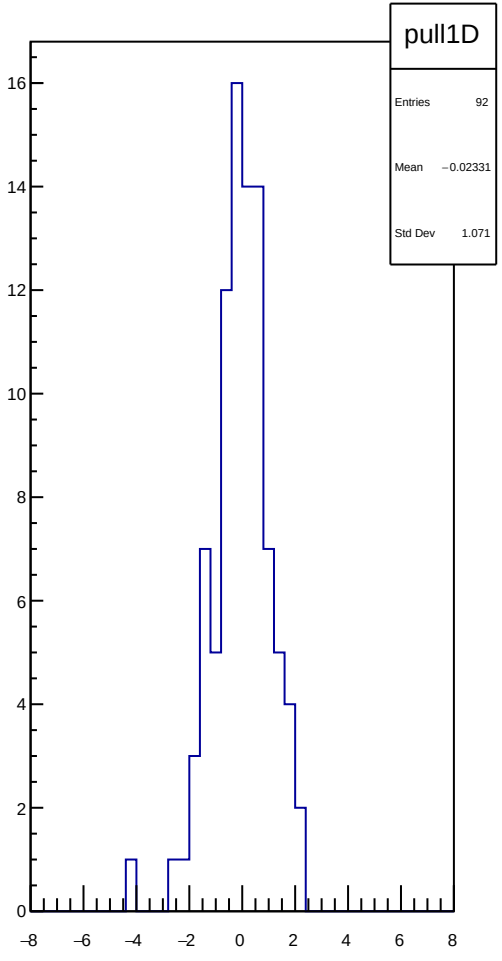

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.265e+05 / 91
p0 35.01 ± 0.02806
90
80
70
60
50
40
30
20

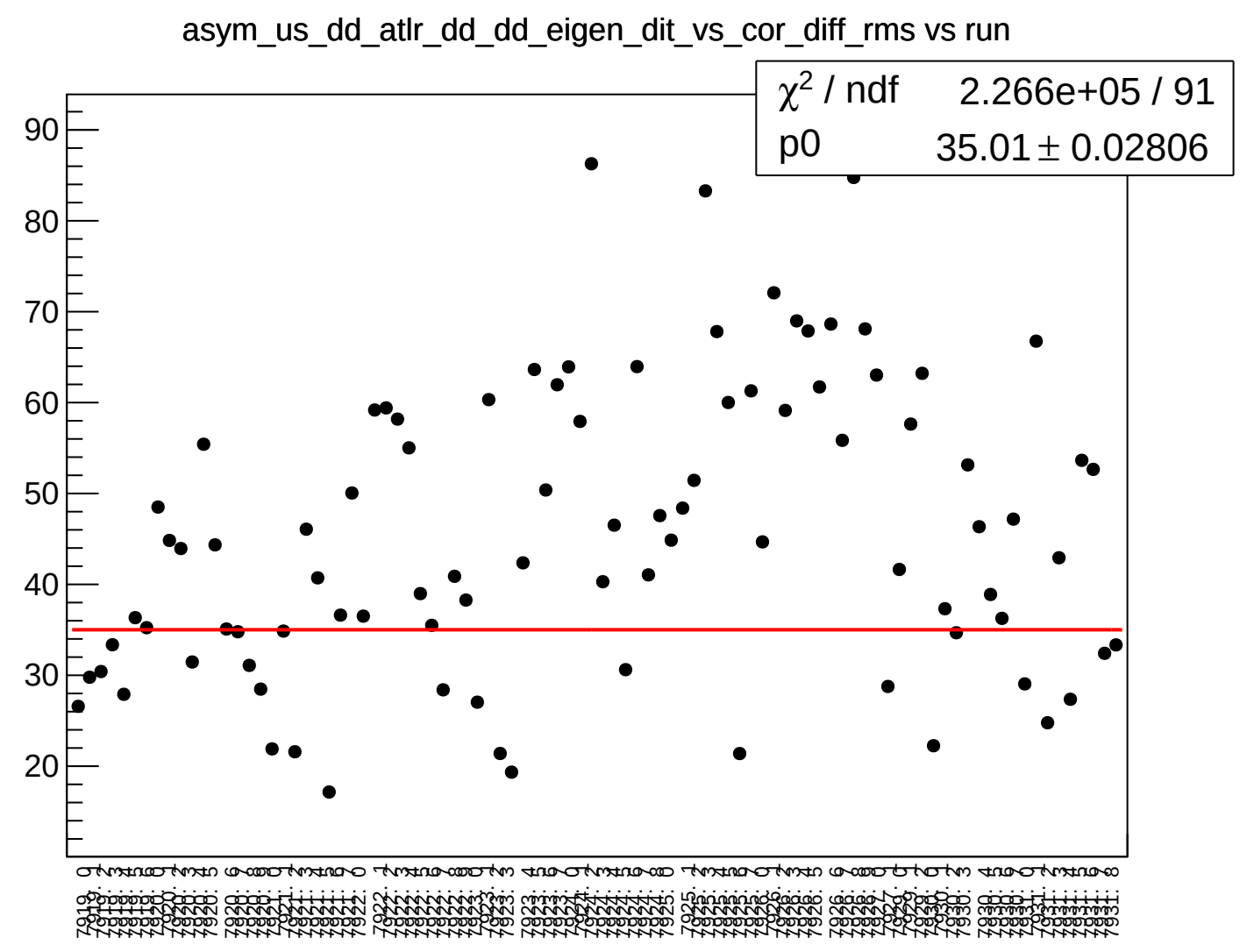

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 84.78 / 91
p0 3.86e−06 ± 7.616e−06
pull
Entries 92
Mean −1776
Std Dev 0

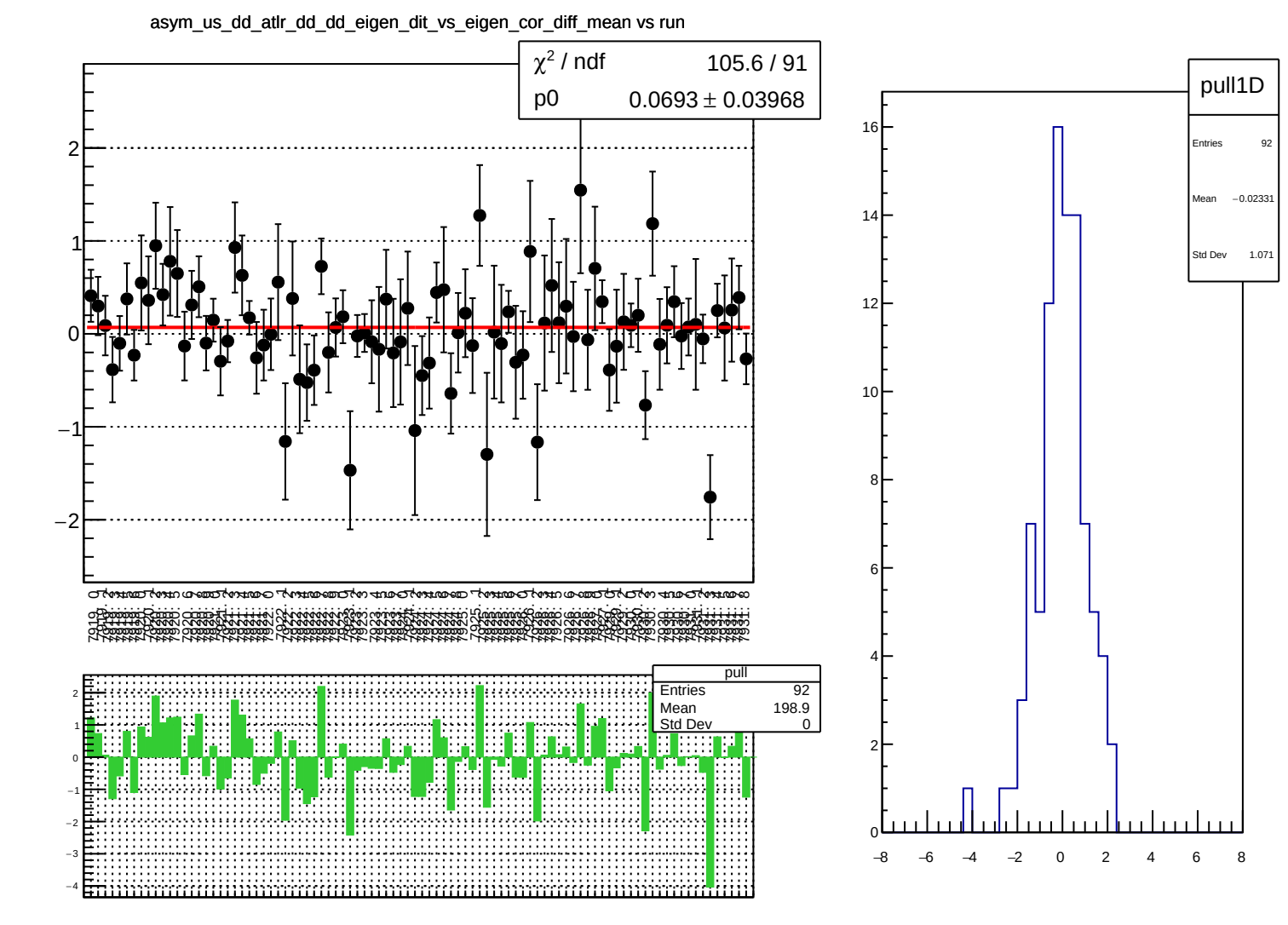

pull1D
Entries 92
Mean −0.002497
Std Dev 0.9599

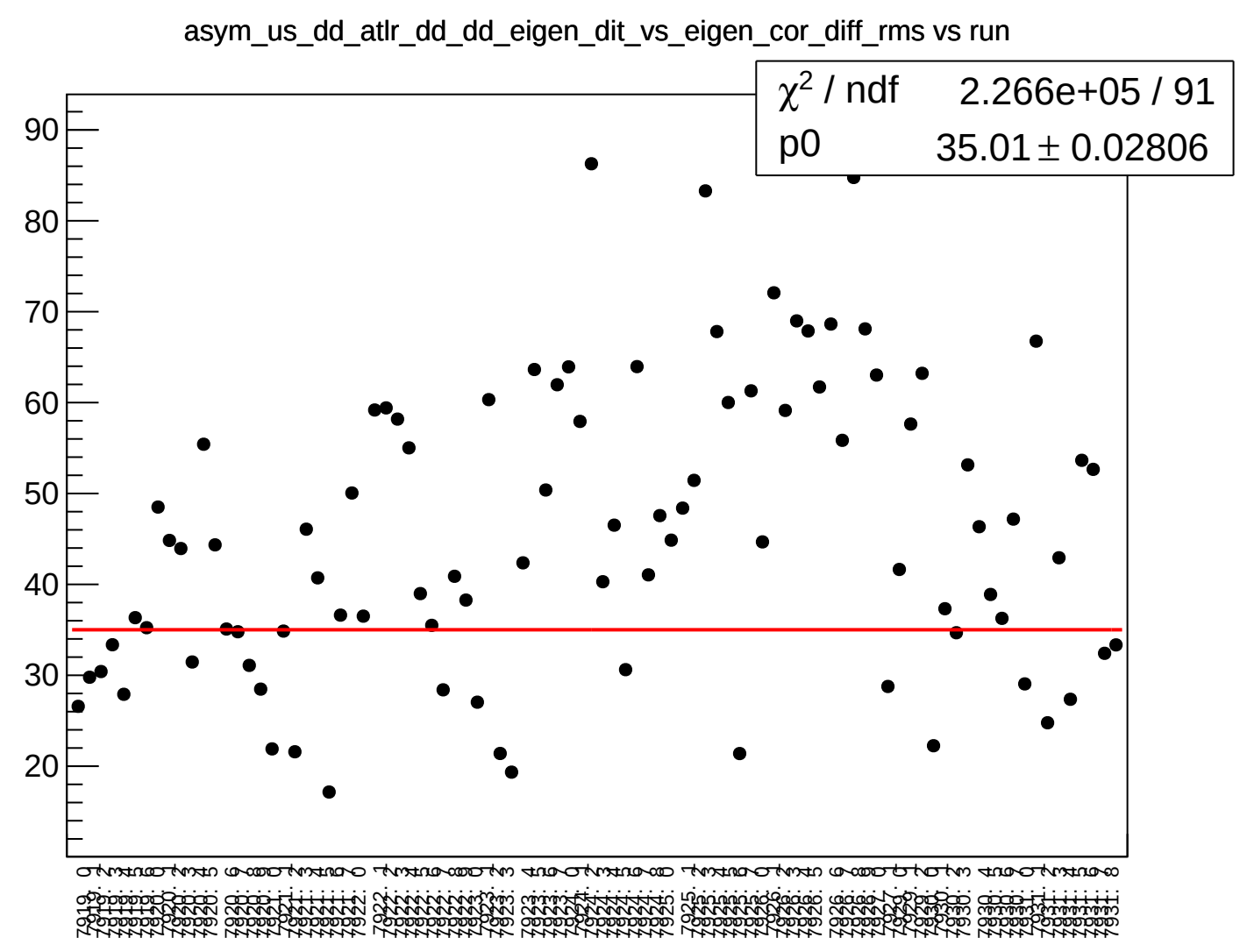

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 946.6 / 91
p0 0.007188 ± 5.385e−06
0.0082
0.008
0.0078
0.0076
0.0074
0.0072
0.007
0.0068

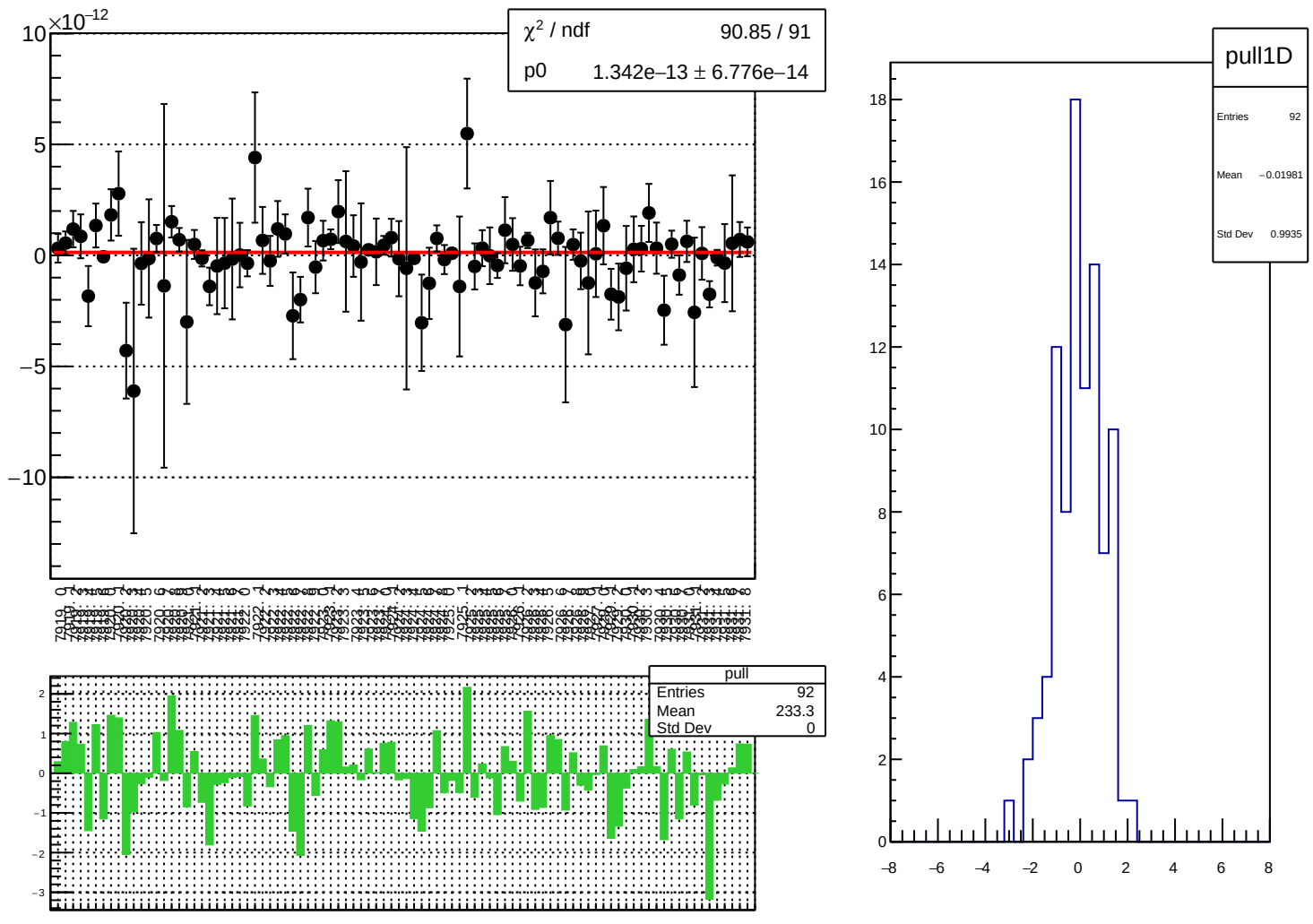

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 105.6 / 91
p0 0.0693 ± 0.03968
pull
Entries 92
Mean 198.9
Std Dev 0

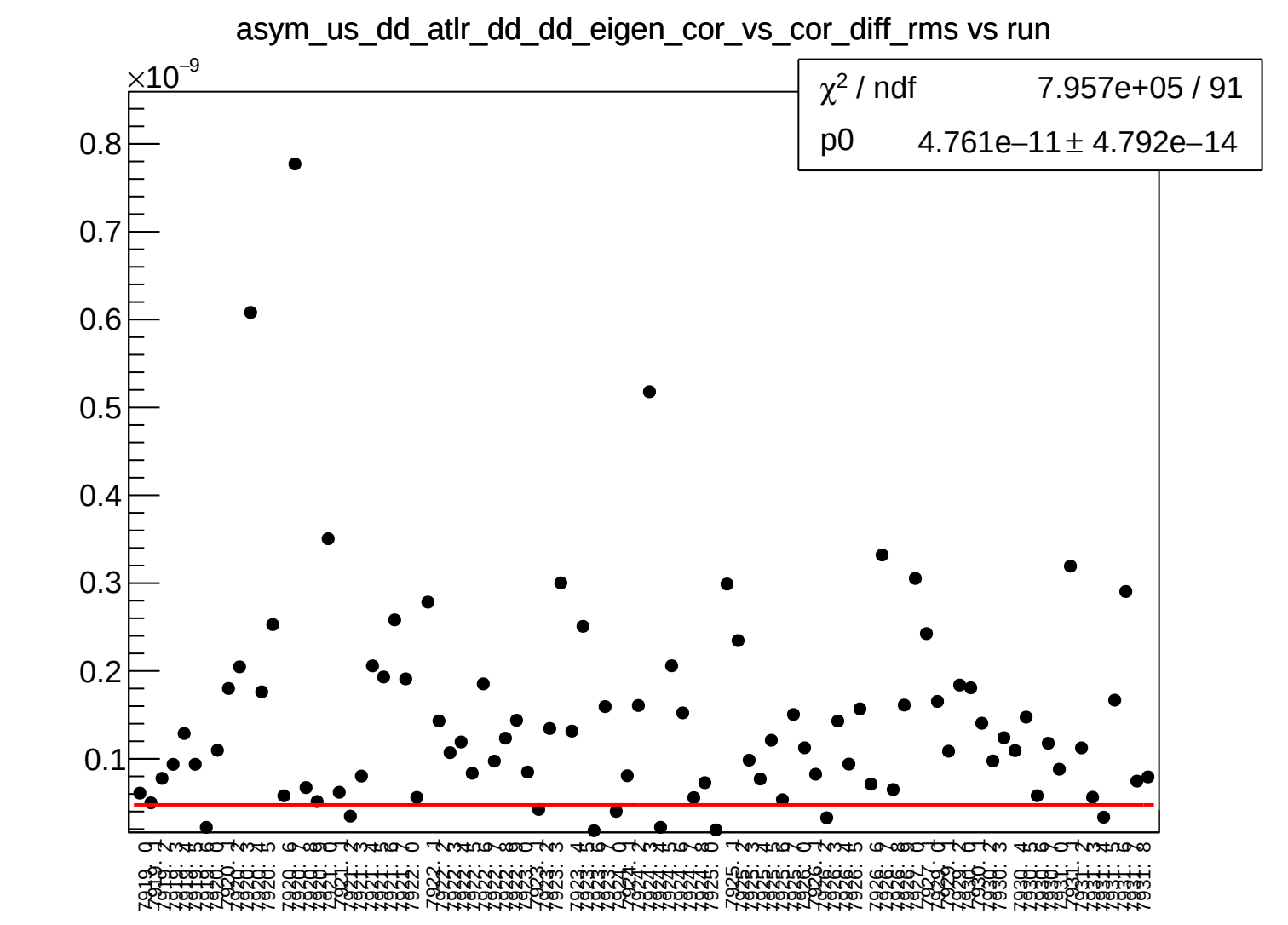

pull1D
Entries 92
Mean −0.02331
Std Dev 1.071

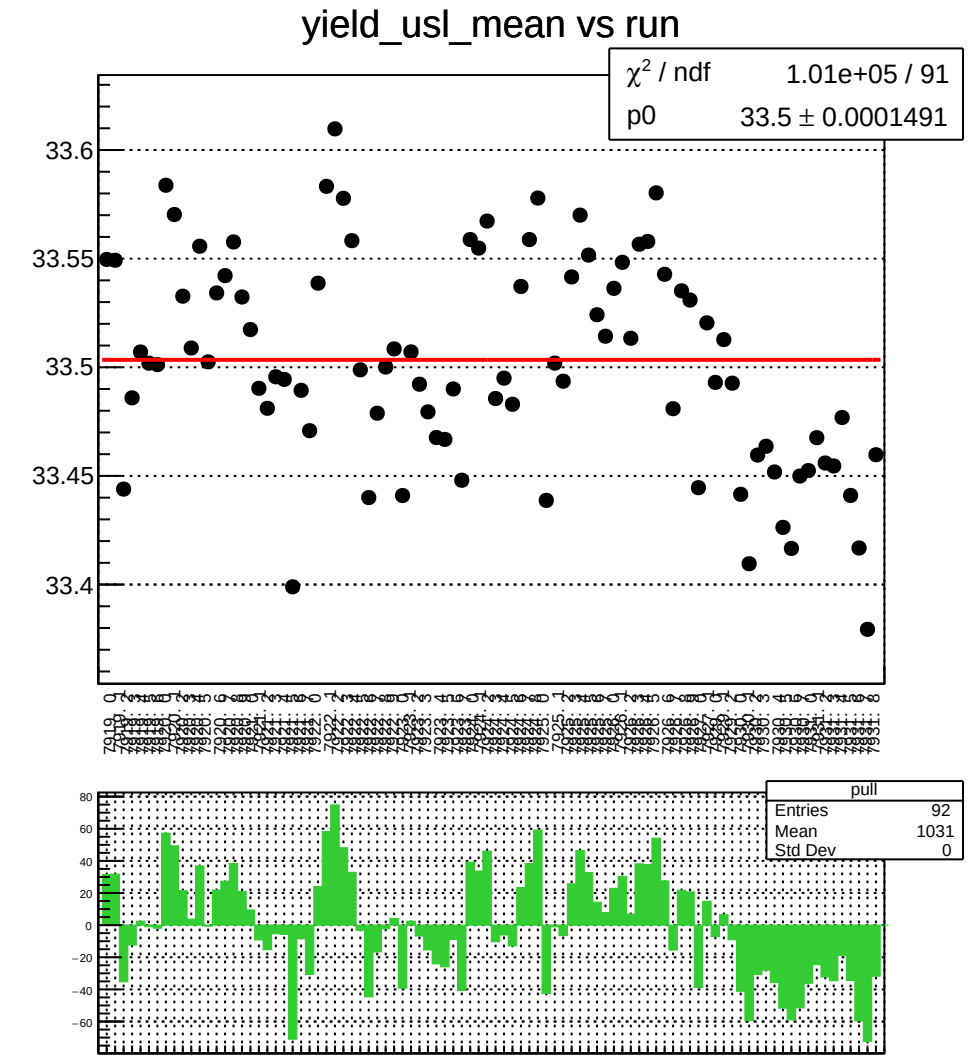

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.266e+05 / 91
p0 35.01 ± 0.02806
90
80
70
60
50
40
30
20

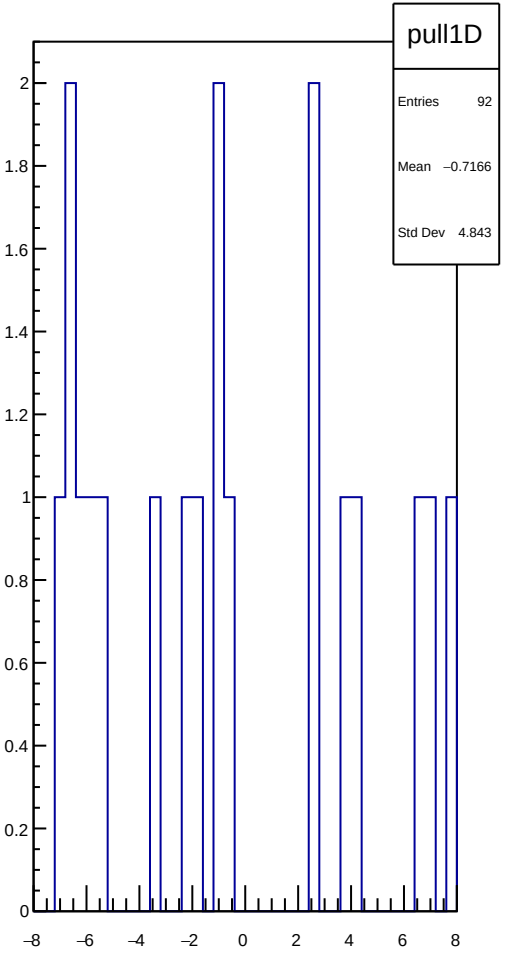

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.6 / 91
p0 0.0693 ± 0.03968
pull
Entries 92
Mean 198.9
Std Dev 0
pull1D
Entries 92
Mean −0.02331
Std Dev 1.071

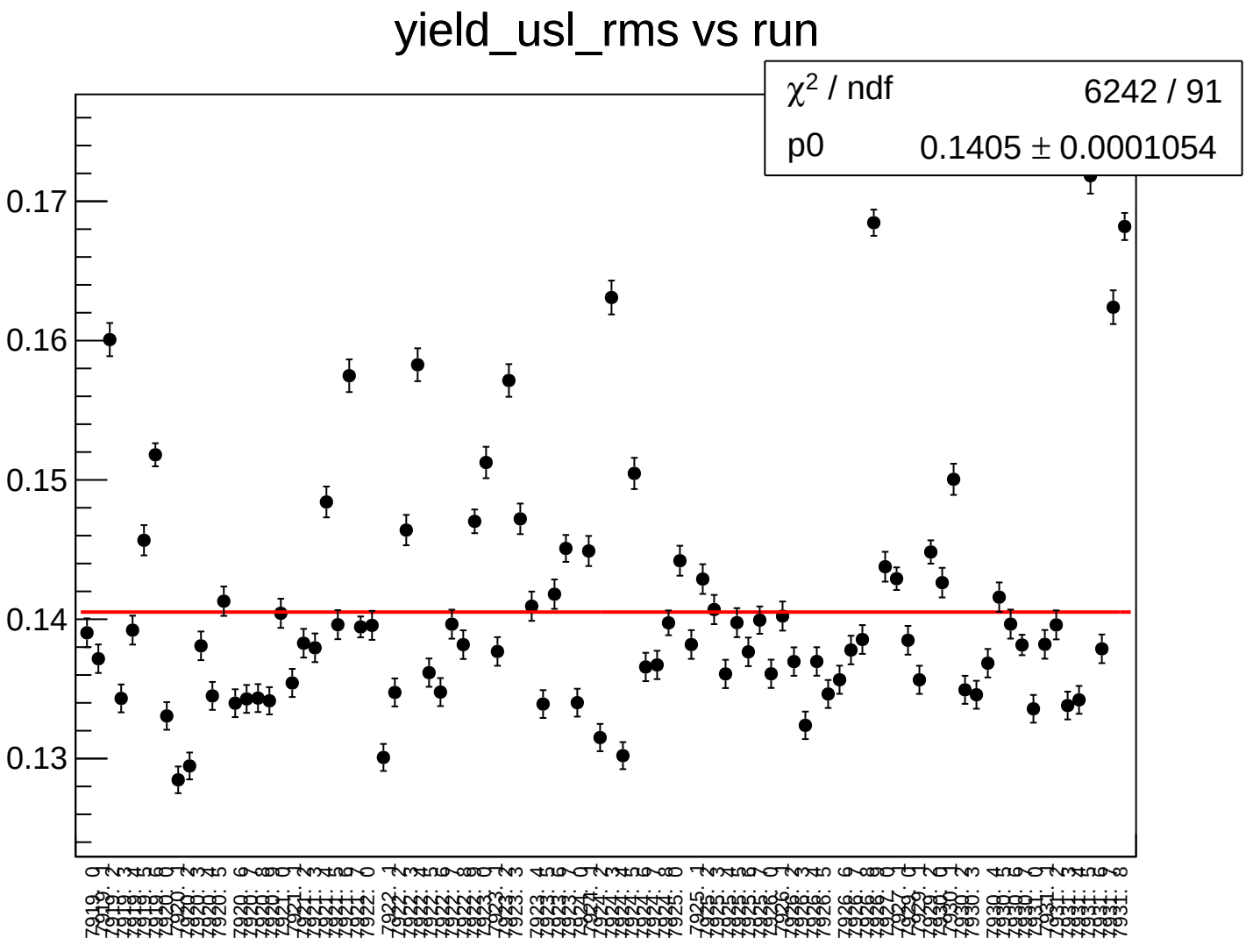

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.266e+05 / 91
p0 35.01 ± 0.02806
90
80
70
60
50
40
30
20

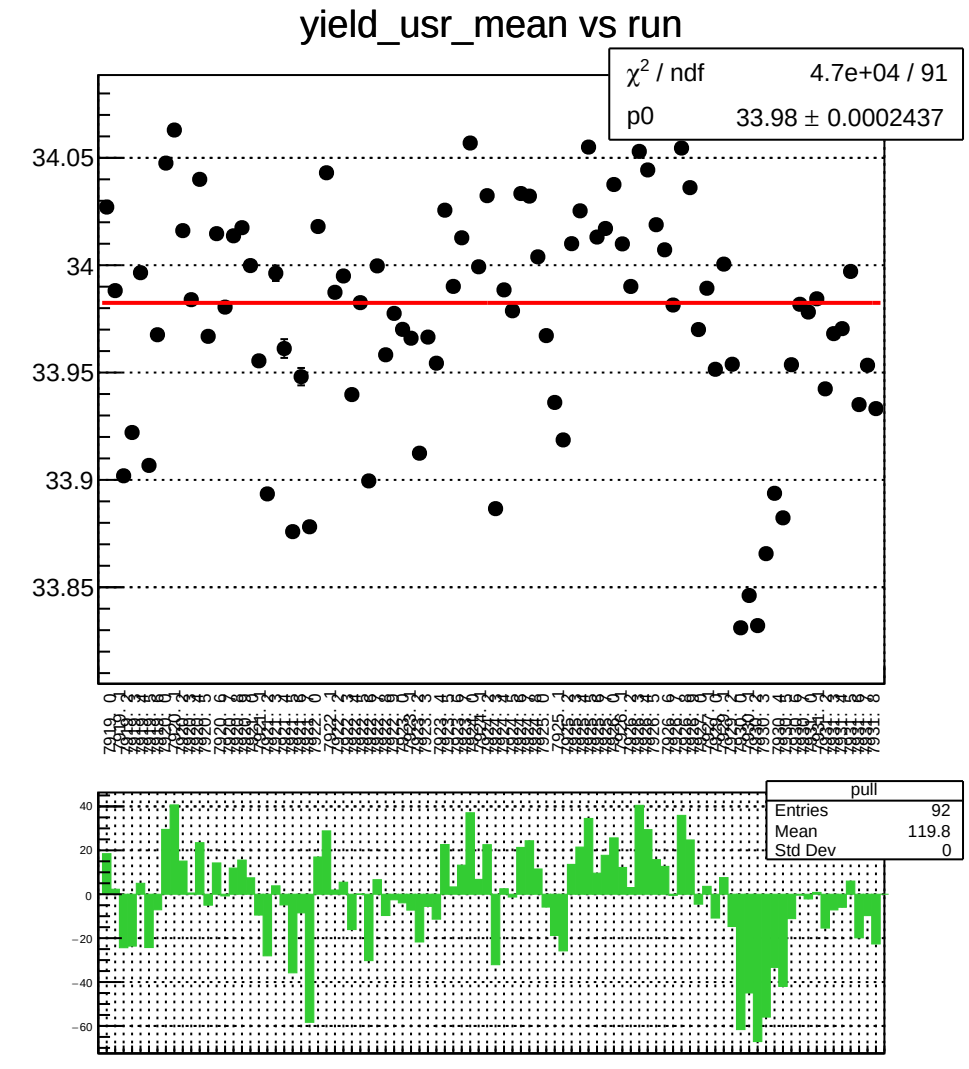

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.85 / 91
p0 1.342e−13 ± 6.776e−14
pull
Entries 92
Mean 233.3
Std Dev 0
pull1D
Entries 92
Mean −0.01981
Std Dev 0.9935

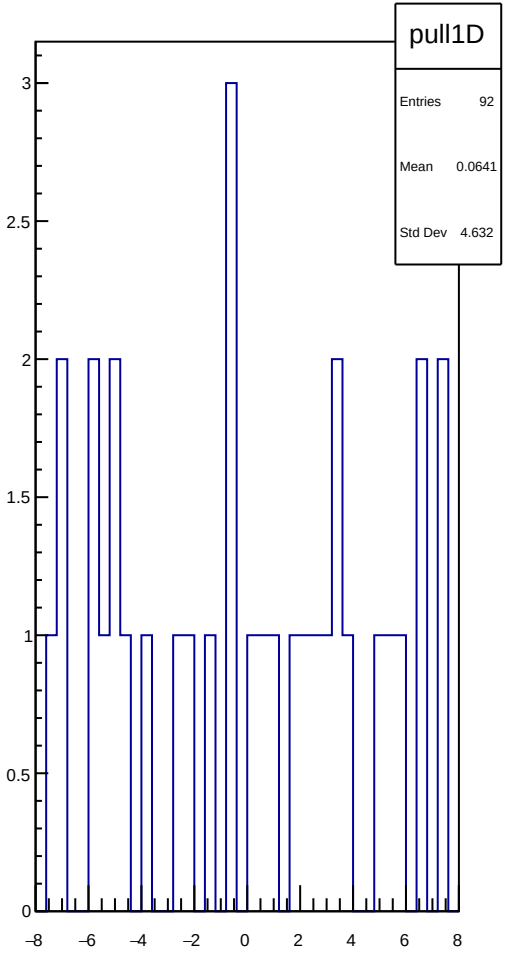

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.957e+05 / 91
p0 4.761e−11 ± 4.792e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

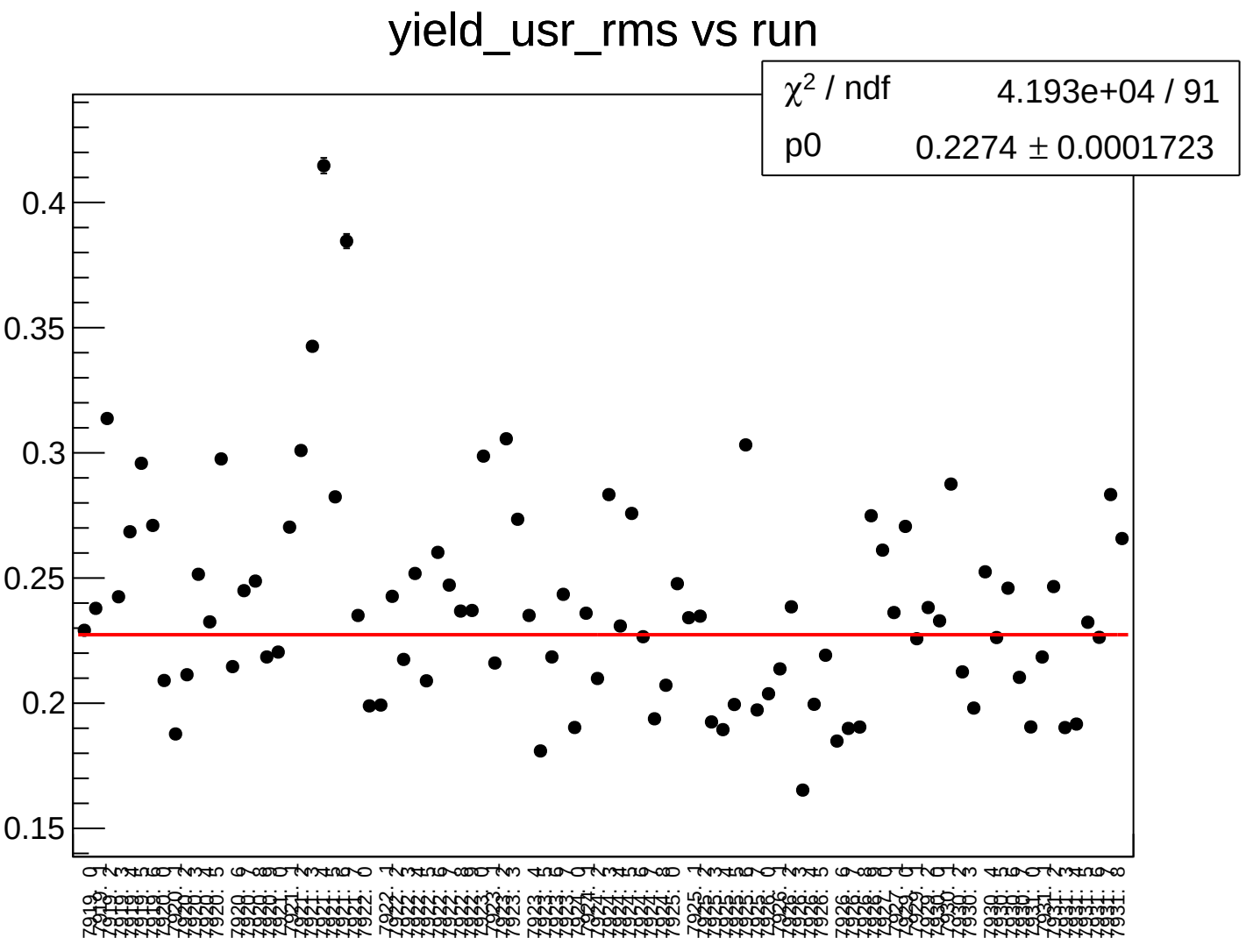

yield_usl_mean vs run
χ² / ndf 1.01e+05 / 91
p0 33.5 ± 0.0001491
33.6
33.55
33.5
33.45
33.4
pull
Entries 92
Mean 1031
Std Dev 0
80
60
40
20
0
−20
−40
−60

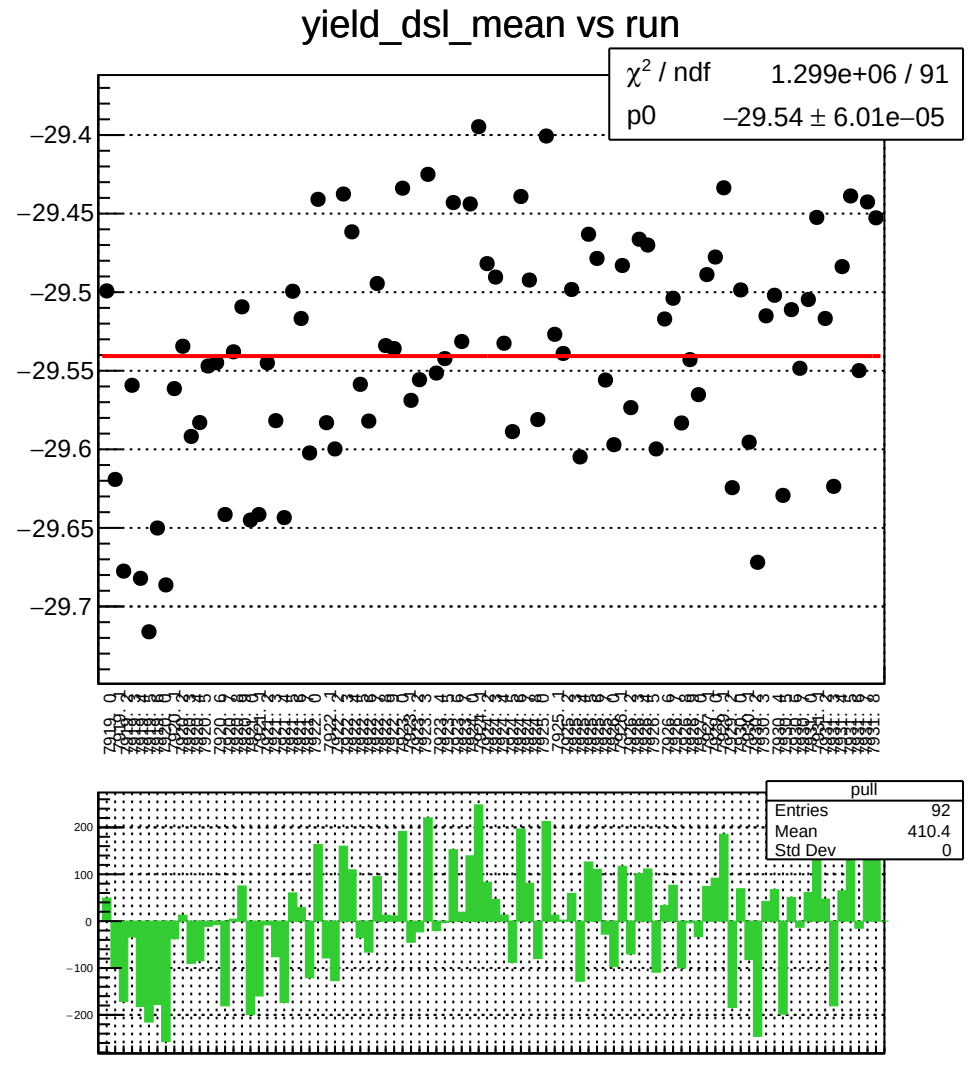

pull1D
Entries 92
Mean −0.7166
Std Dev 4.843
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

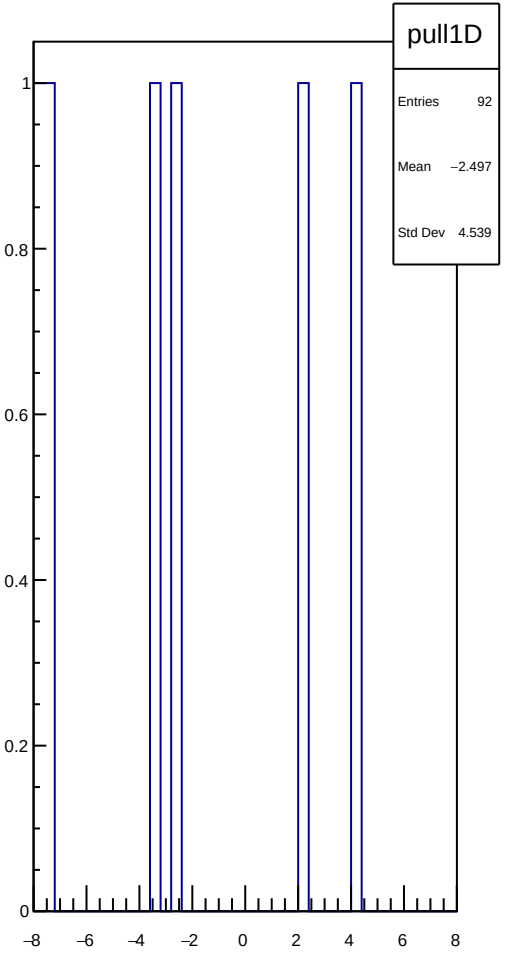

yield_usl_rms vs run
χ² / ndf 6242 / 91
p0 0.1405 ± 0.0001054
0.17
0.16
0.15
0.14
0.13

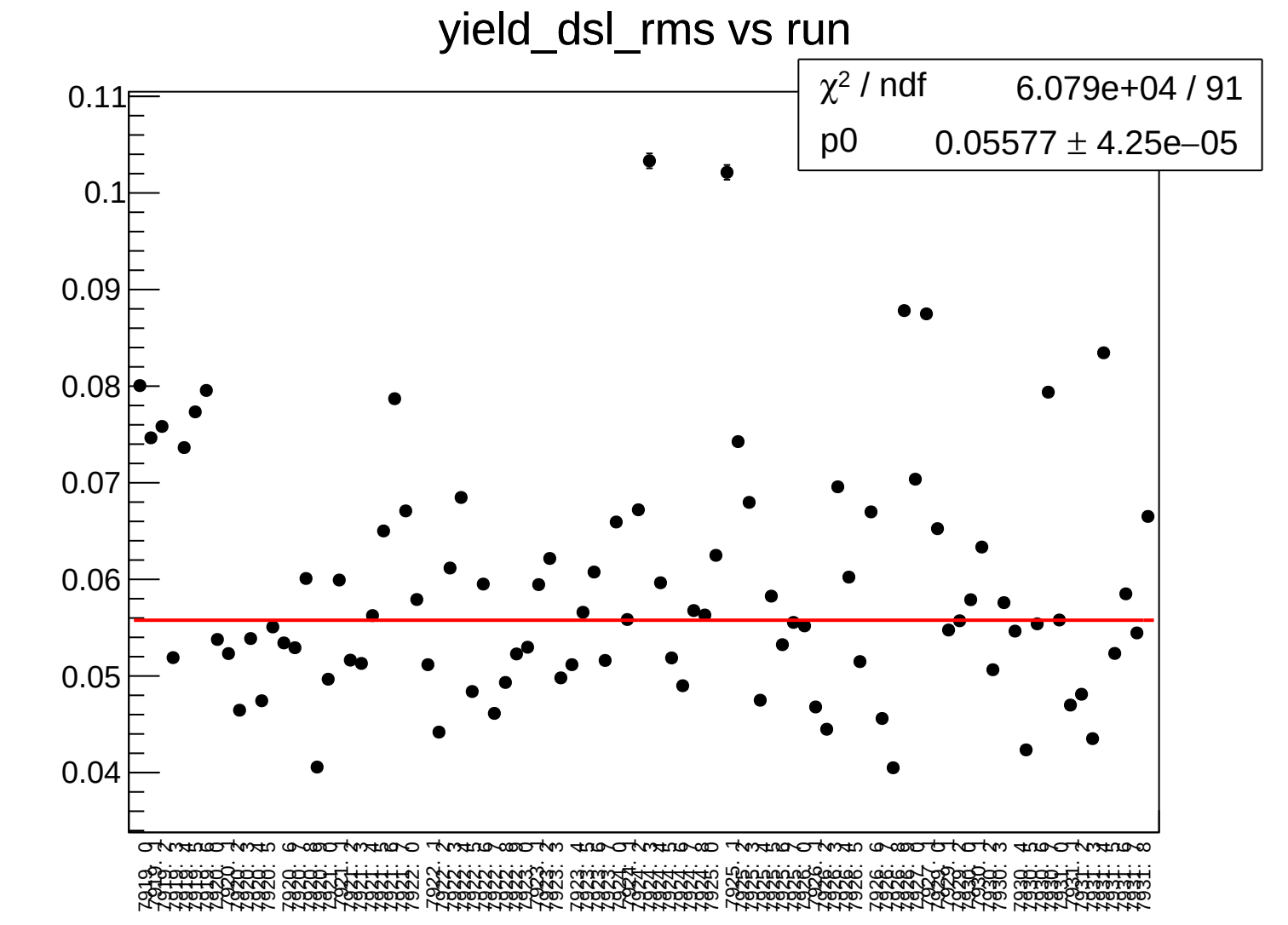

yield_usr_mean vs run
χ² / ndf 4.7e+04 / 91
p0 33.98 ± 0.0002437
34.05
34
33.95
33.9
33.85
pull
Entries 92
Mean 119.8
Std Dev 0
40
20
0
−20
−40
−60

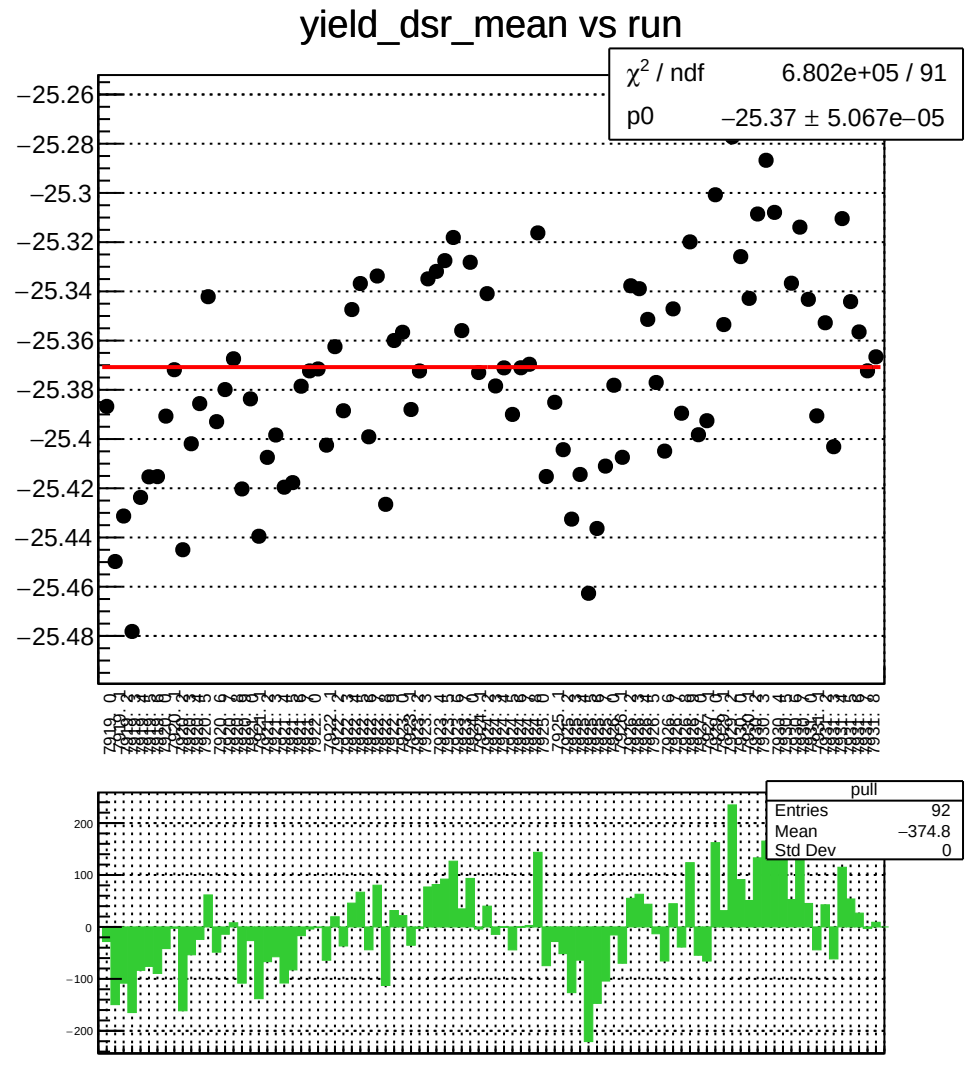

pull1D
Entries 92
Mean 0.0641
Std Dev 4.632
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

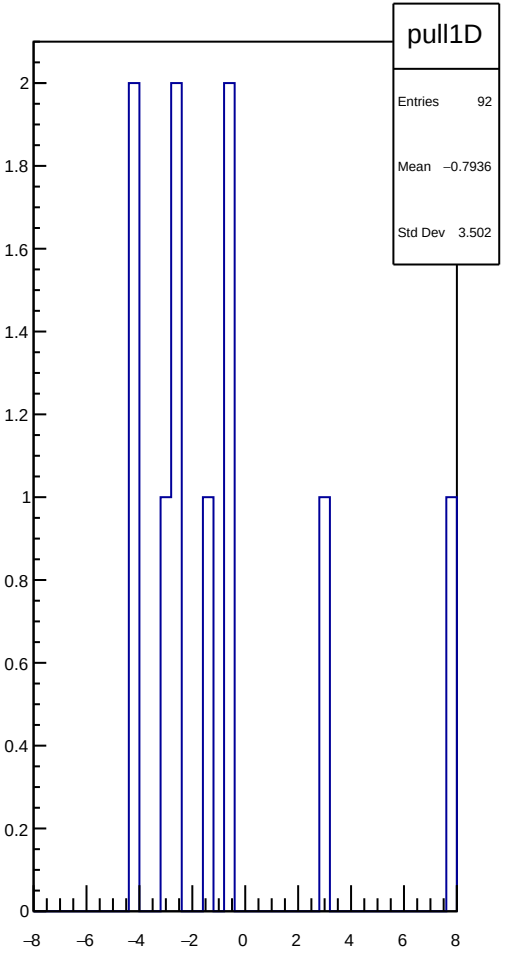

yield_usr_rms vs run
χ² / ndf 4.193e+04 / 91
p0 0.2274 ± 0.0001723
0.4
0.35
0.3
0.25
0.2
0.15

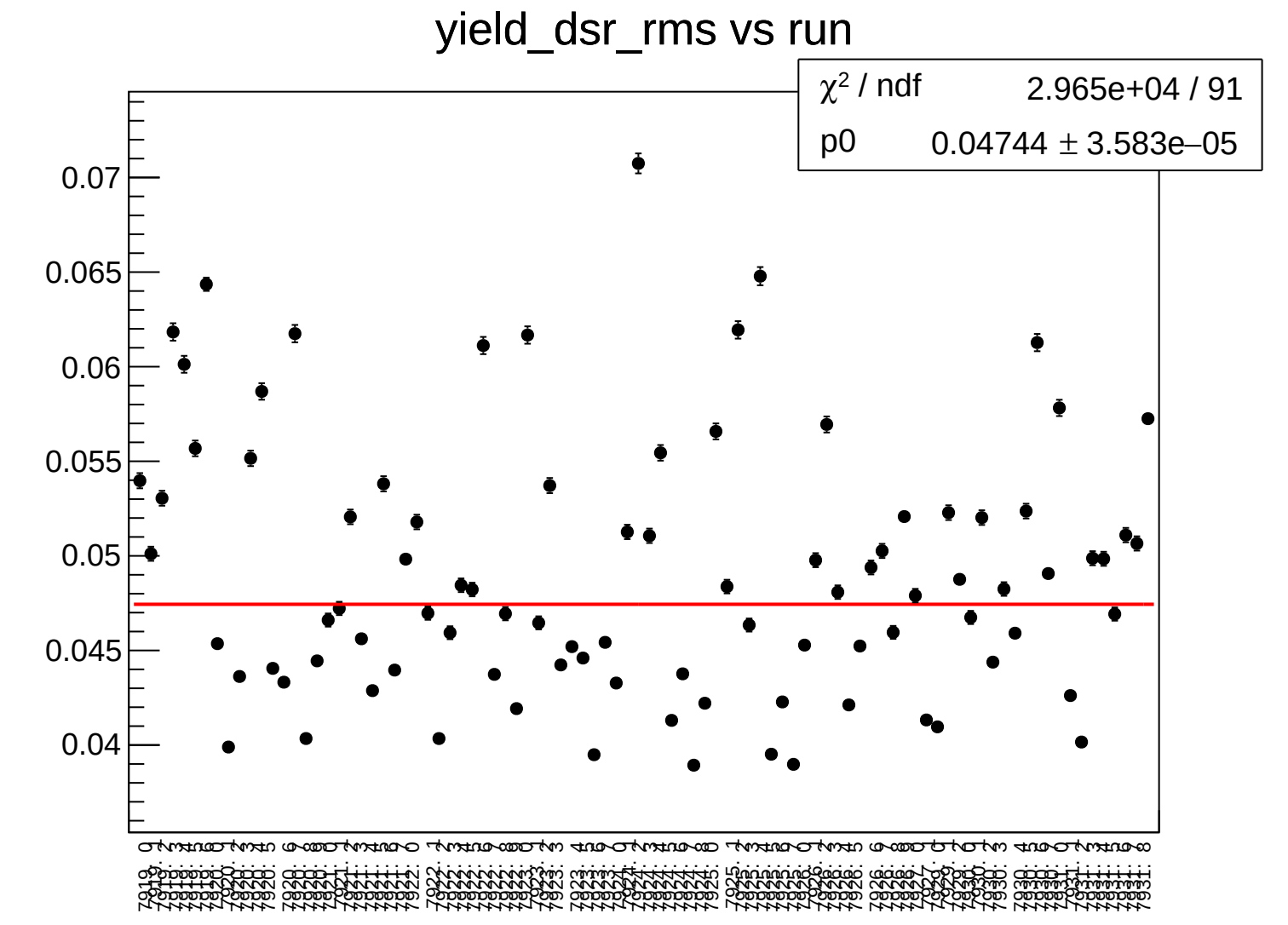

yield_dsl_mean vs run
χ² / ndf 1.299e+06 / 91
p0 −29.54 ± 6.01e−05
−29.4
−29.45
−29.5
−29.55
−29.6
−29.65
−29.7
pull
Entries 92
Mean 410.4
Std Dev 0
200
100
0
−100
−200

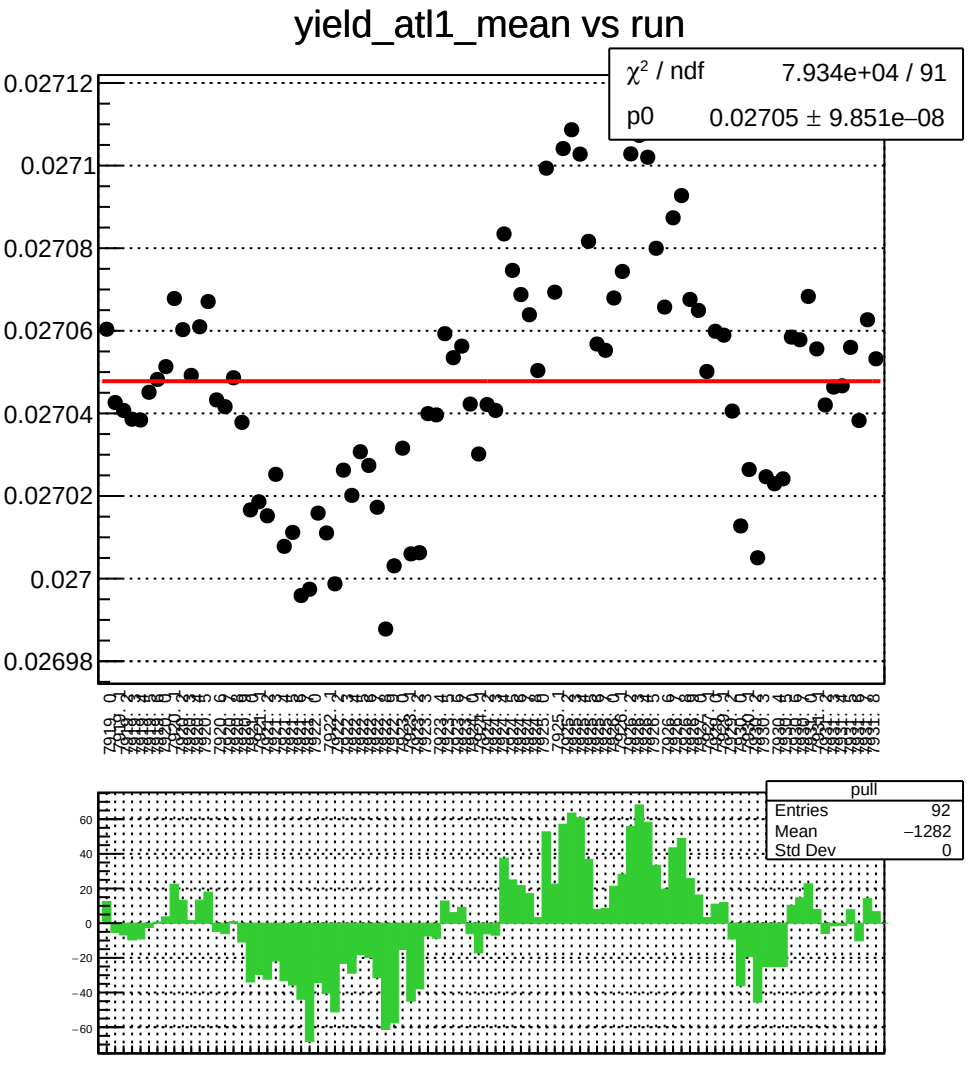

pull1D
Entries 92
Mean −2.497
Std Dev 4.539
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

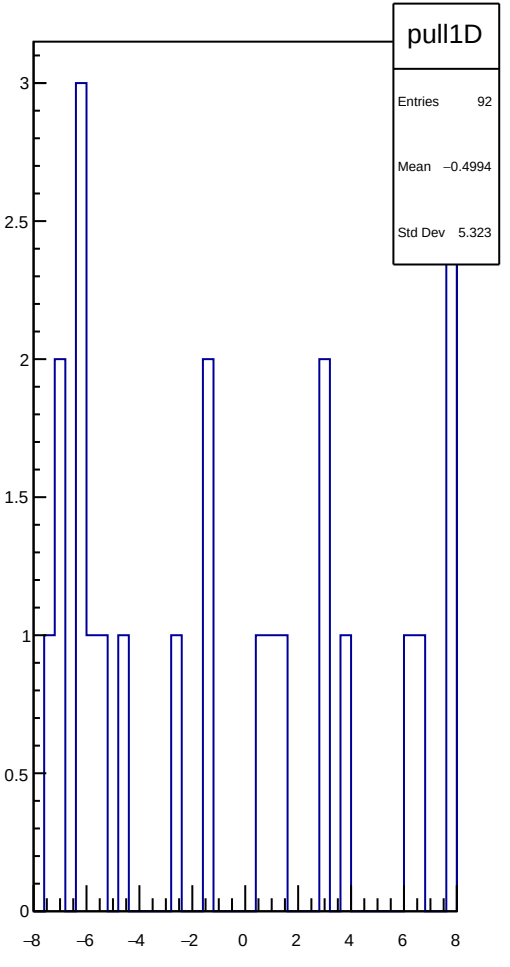

yield_dsl_rms vs run
χ² / ndf 6.079e+04 / 91
p0 0.05577 ± 4.25e−05
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04

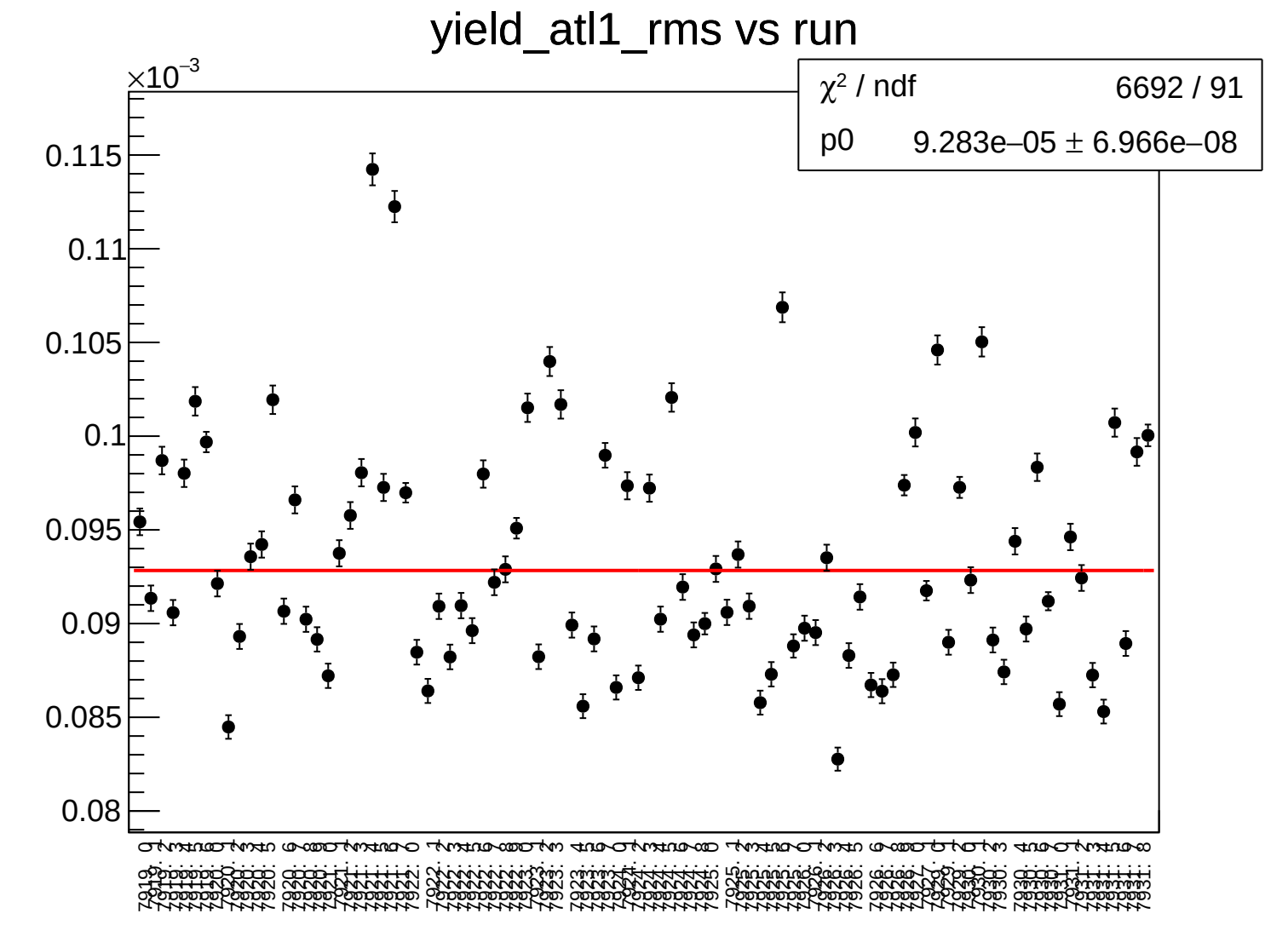

yield_dsr_mean vs run
χ² / ndf 6.802e+05 / 91
p0 −25.37 ± 5.067e−05
−25.26
−25.28
−25.3
−25.32
−25.34
−25.36
−25.38
−25.4
−25.42
−25.44
−25.46
−25.48
pull
Entries 92
Mean −374.8
Std Dev 0
200
100
0
−100
−200

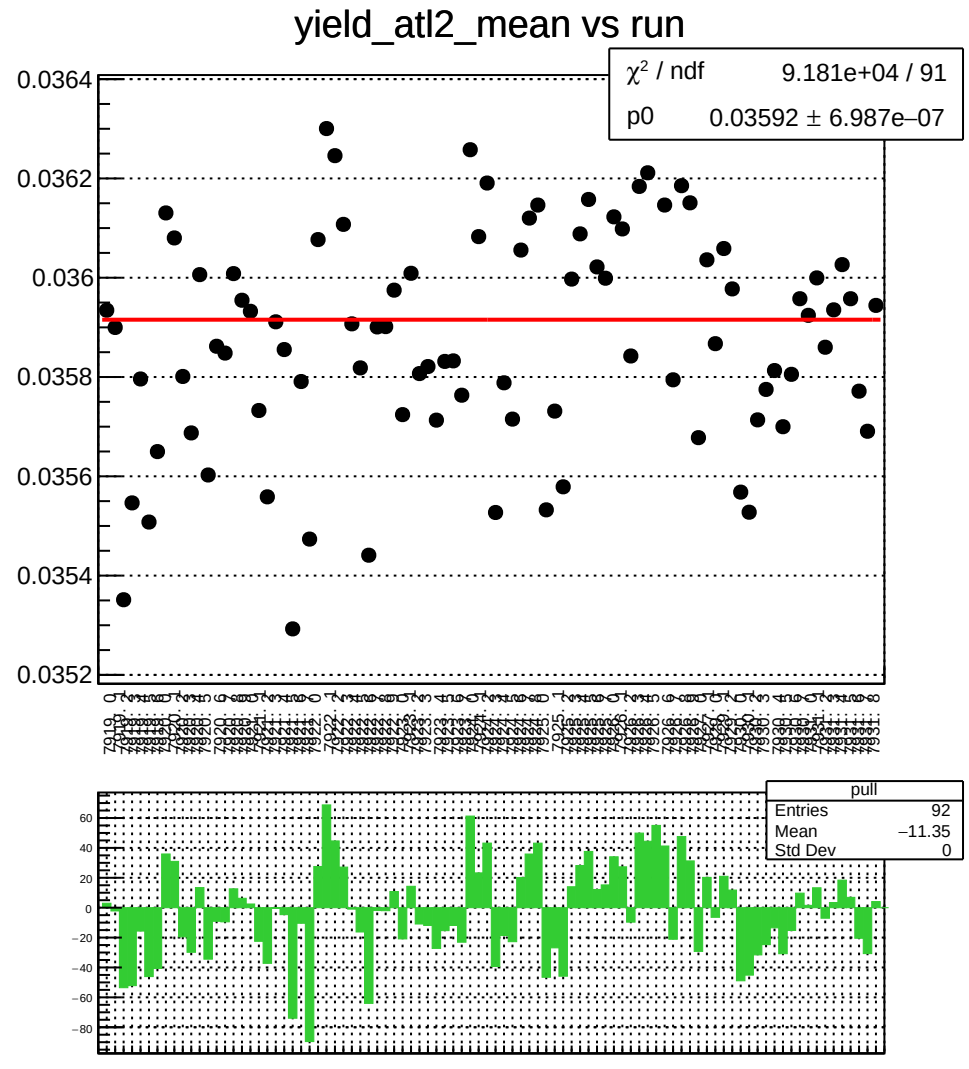

pull1D
Entries 92
Mean −0.7936
Std Dev 3.502
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

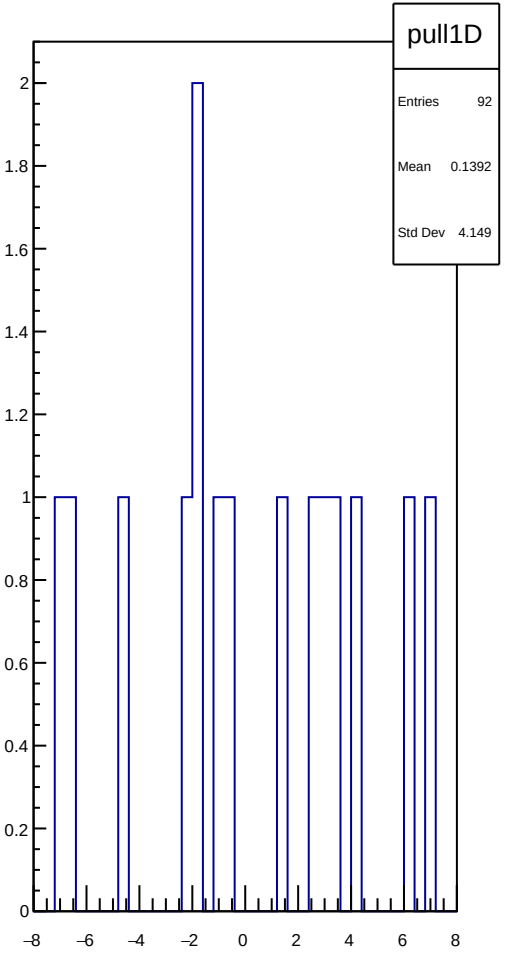

yield_dsr_rms vs run
χ² / ndf 2.965e+04 / 91
p0 0.04744 ± 3.583e−05
0.07
0.065
0.06
0.055
0.05
0.045
0.04

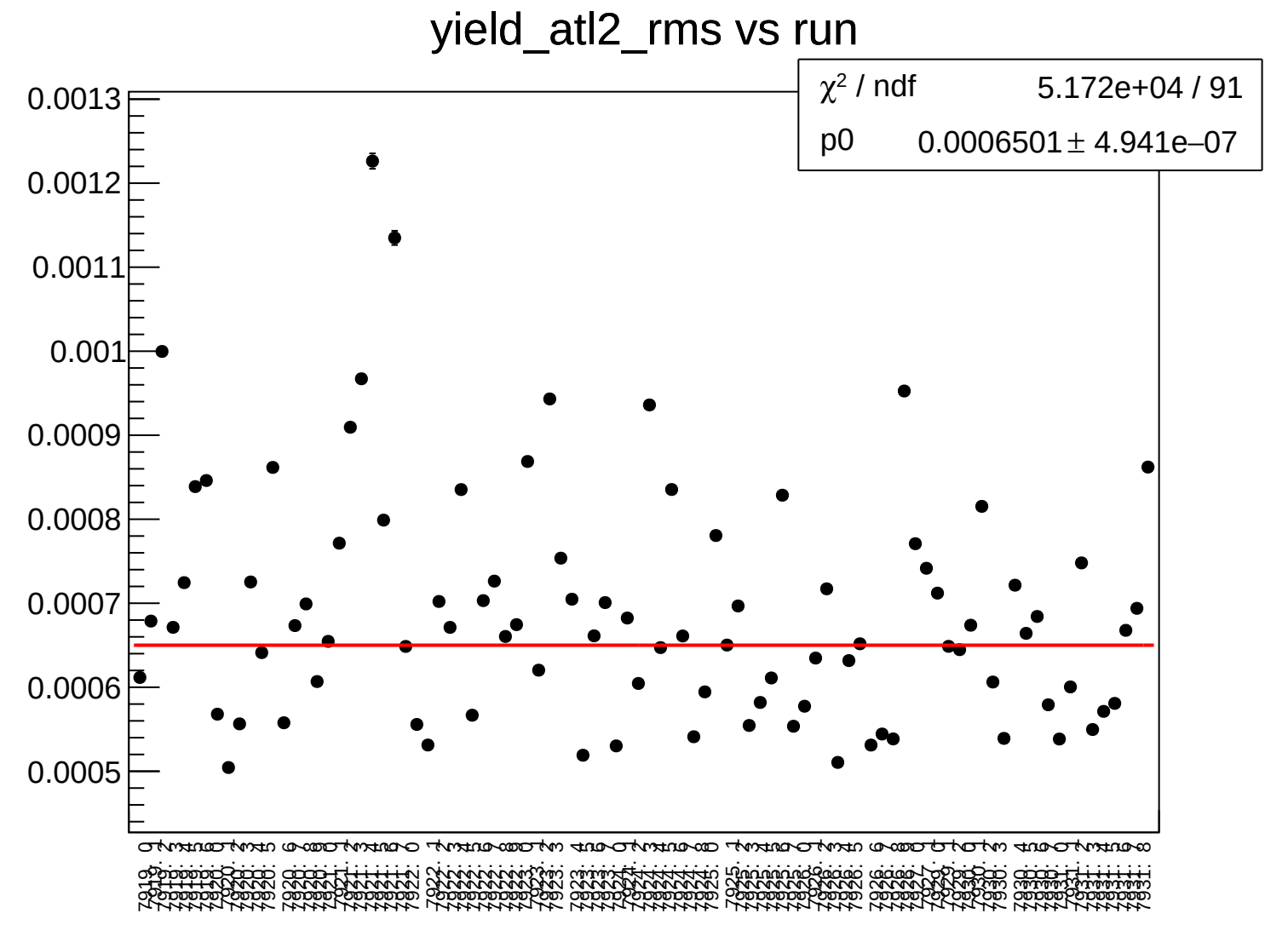

yield_atl1_mean vs run
χ² / ndf 7.934e+04 / 91
p0 0.02705 ± 9.851e−08
0.02712
0.0271
0.02708
0.02706
0.02704
0.02702
0.027
0.02698
pull
Entries 92
Mean −1282
Std Dev 0
60
40
20
0
−20
−40
−60

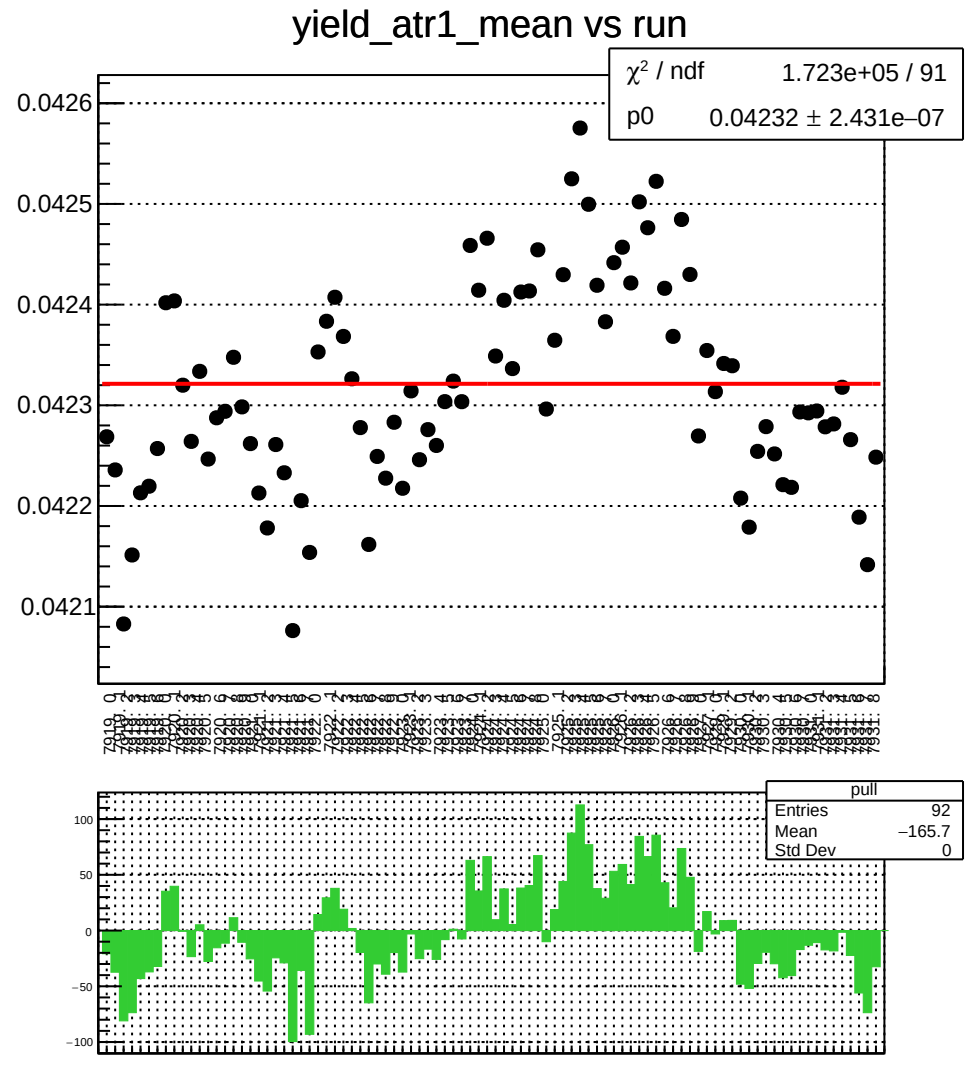

pull1D
Entries 92
Mean −0.4994
Std Dev 5.323
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

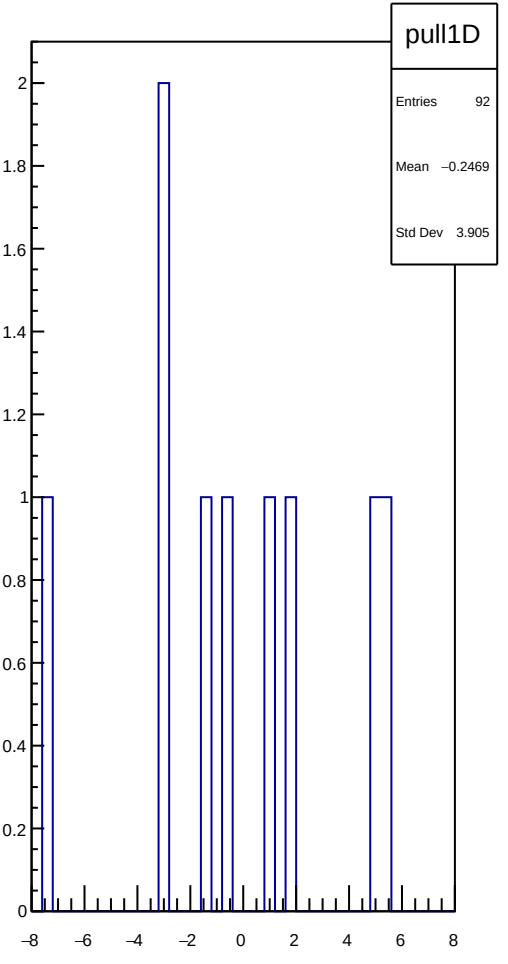

yield_atl1_rms vs run
×10⁻³
χ² / ndf 6692 / 91
p0 9.283e−05 ± 6.966e−08
0.115
0.11
0.105
0.1
0.095
0.09
0.085
0.08

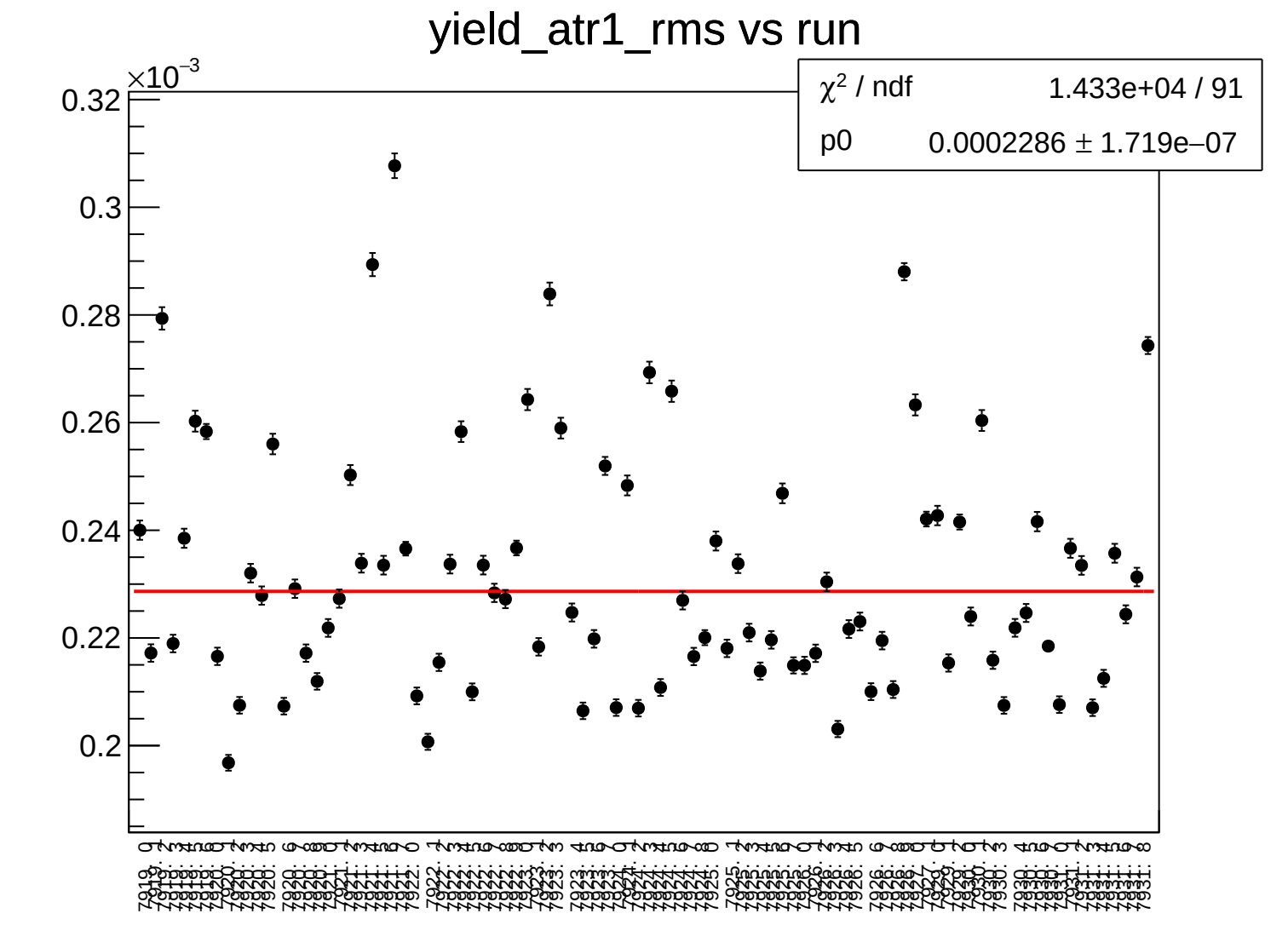

yield_atl2_mean vs run
χ² / ndf 9.181e+04 / 91
p0 0.03592 ± 6.987e−07
0.0364
0.0362
0.036
0.0358
0.0356
0.0354
0.0352
pull
Entries 92
Mean −11.35
Std Dev 0
60
40
20
0
−20
−40
−60
−80

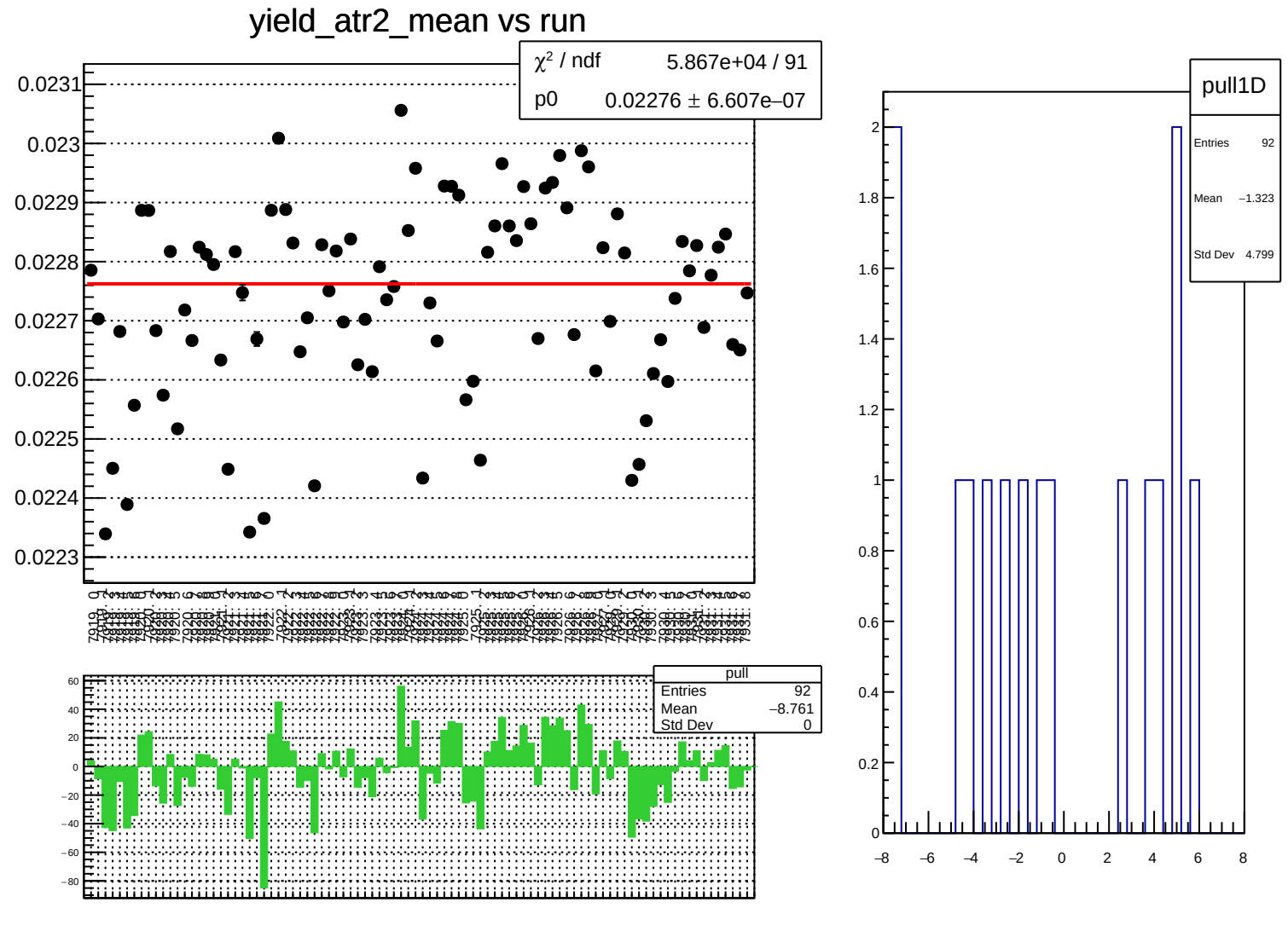

pull1D
Entries 92
Mean 0.1392
Std Dev 4.149
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

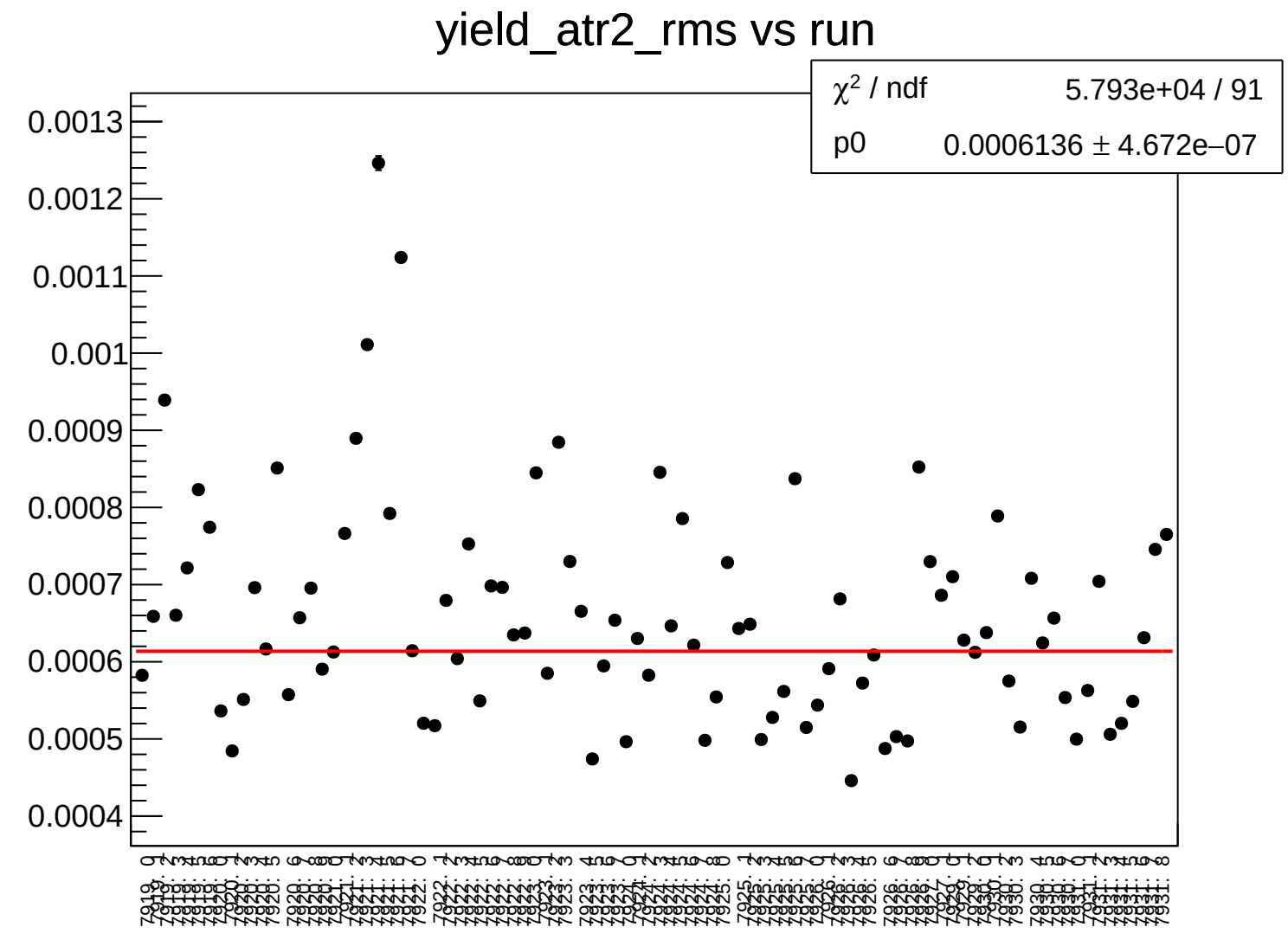

yield_atl2_rms vs run
χ² / ndf 5.172e+04 / 91
p0 0.0006501 ± 4.941e−07
0.0013
0.0012
0.0011
0.001
0.0009
0.0008
0.0007
0.0006
0.0005

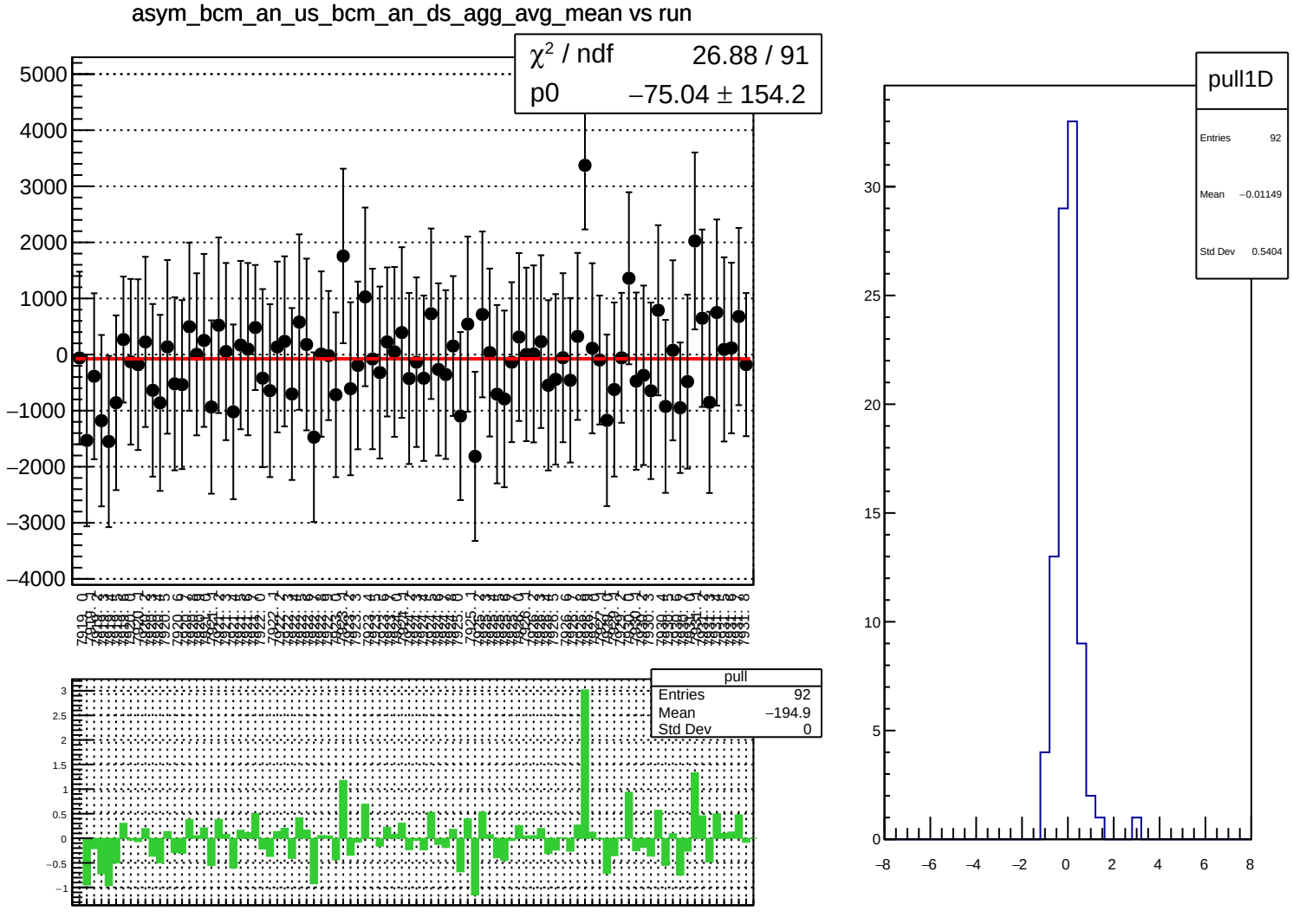

yield_atr1_mean vs run
χ² / ndf 1.723e+05 / 91
p0 0.04232 ± 2.431e−07
0.0426
0.0425
0.0424
0.0423
0.0422
0.0421
pull
Entries 92
Mean −165.7
Std Dev 0
100
50
0
−50
−100

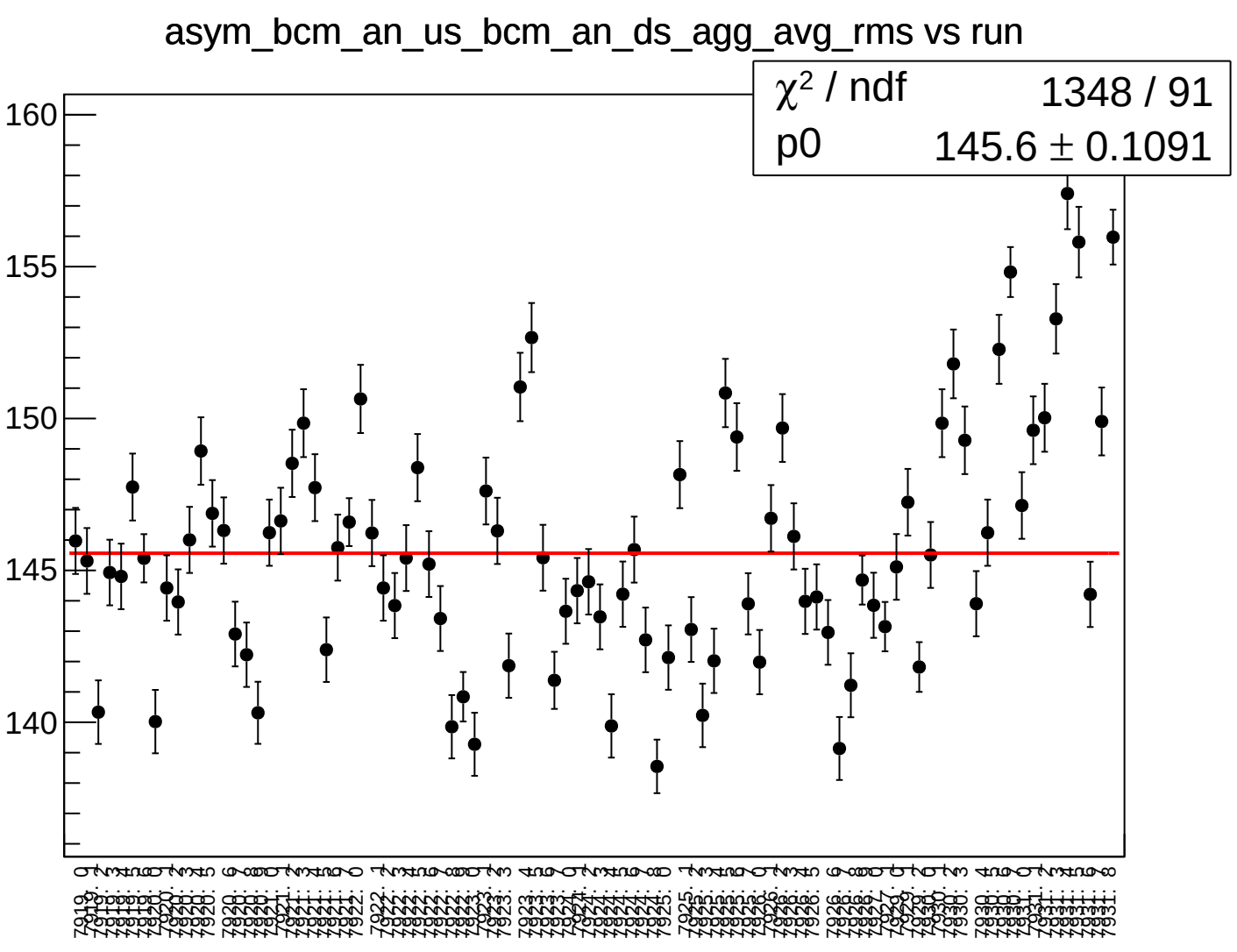

pull1D
Entries 92
Mean −0.2469
Std Dev 3.905
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

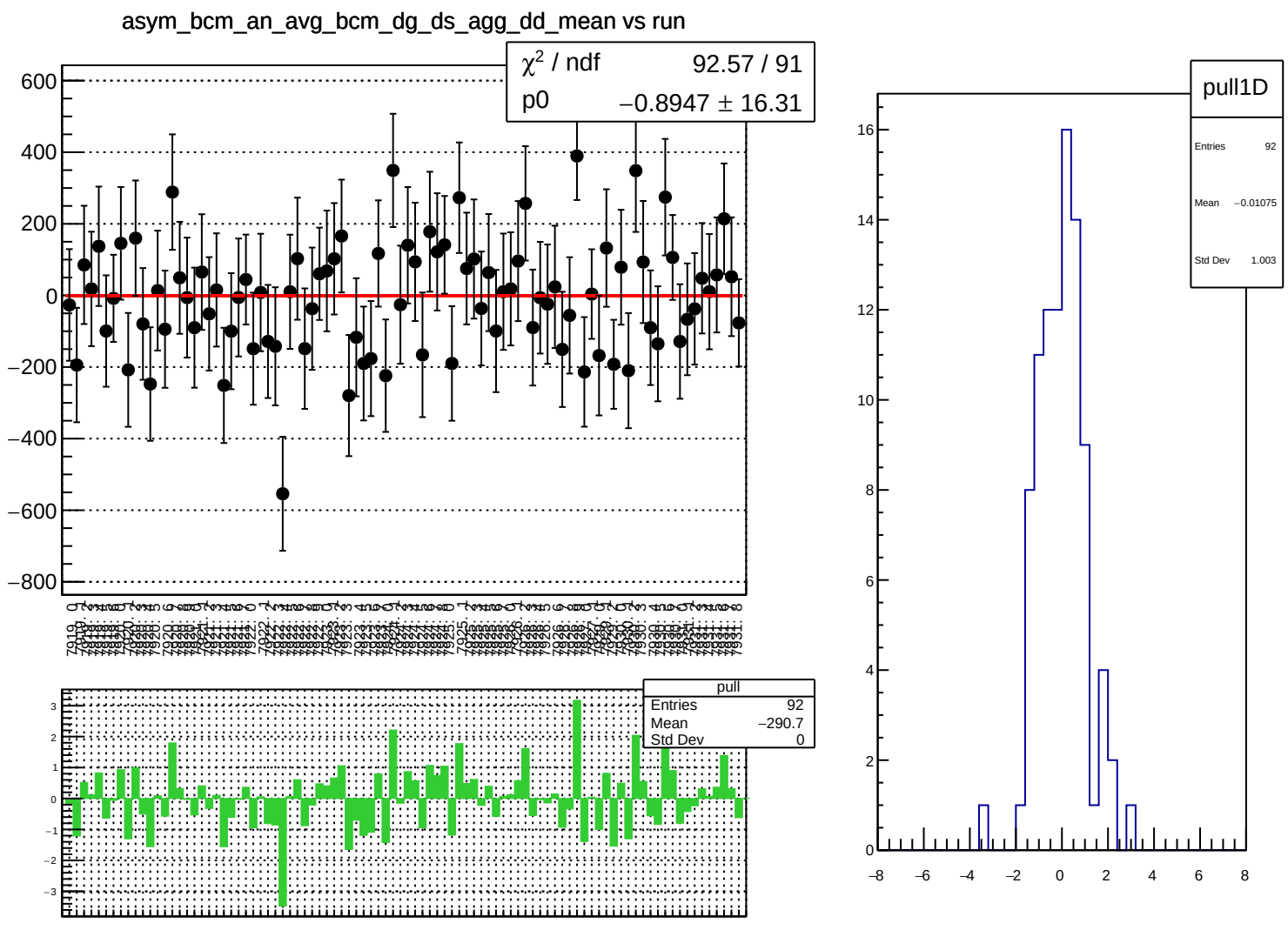

yield_atr1_rms vs run
×10⁻³
0.32
0.3
0.28
0.26
0.24
0.22
0.2
χ² / ndf 1.433e+04 / 91
p0 0.0002286 ± 1.719e−07

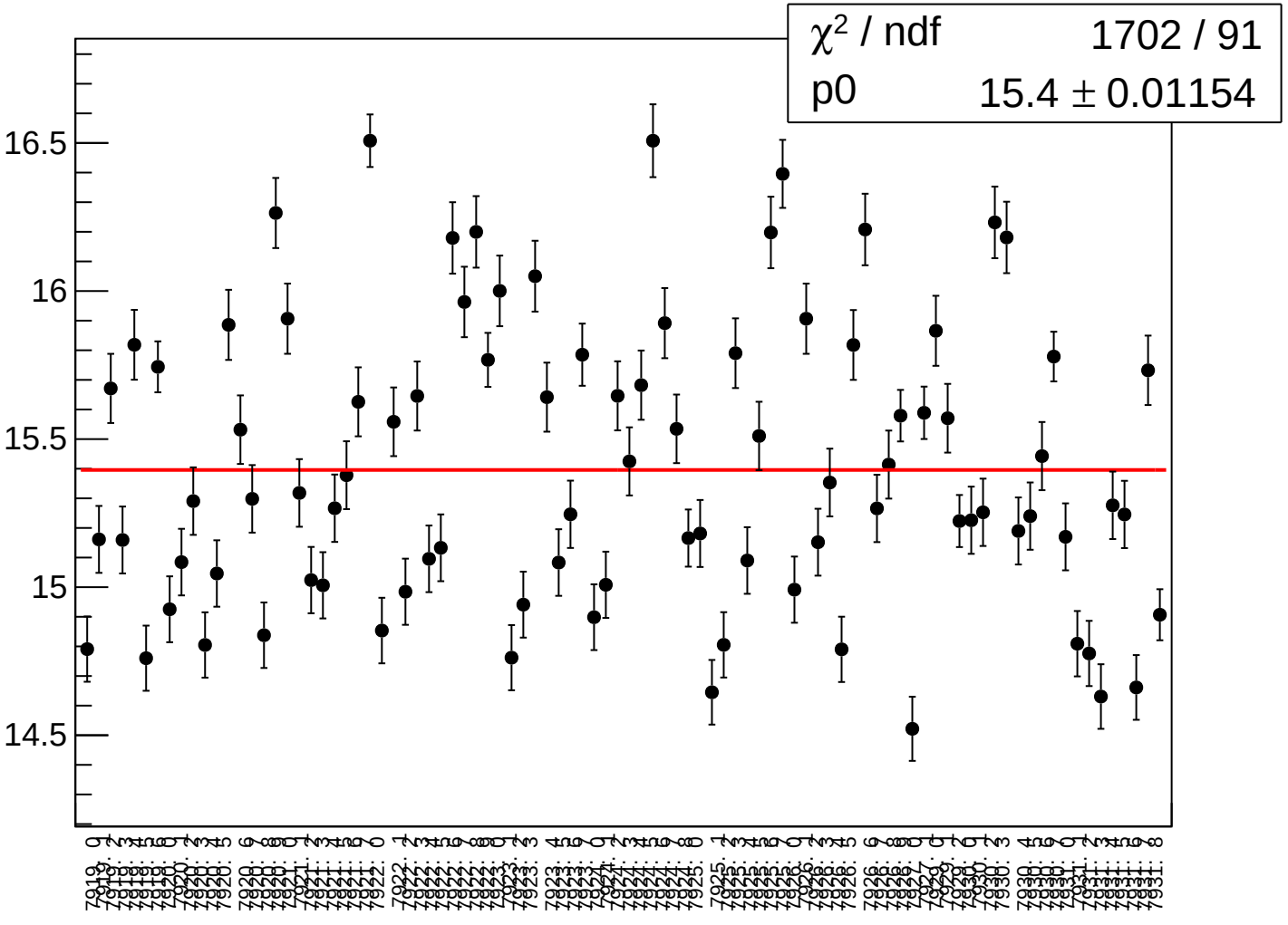

yield_atr2_mean vs run
χ² / ndf 5.867e+04 / 91
p0 0.02276 ± 6.607e−07
0.0231
0.023
0.0229
0.0228
0.0227
0.0226
0.0225
0.0224
0.0223
pull
Entries 92
Mean −8.761
Std Dev 0
60
40
20
0
−20
−40
−60
−80
pull1D
Entries 92
Mean −1.323
Std Dev 4.799
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

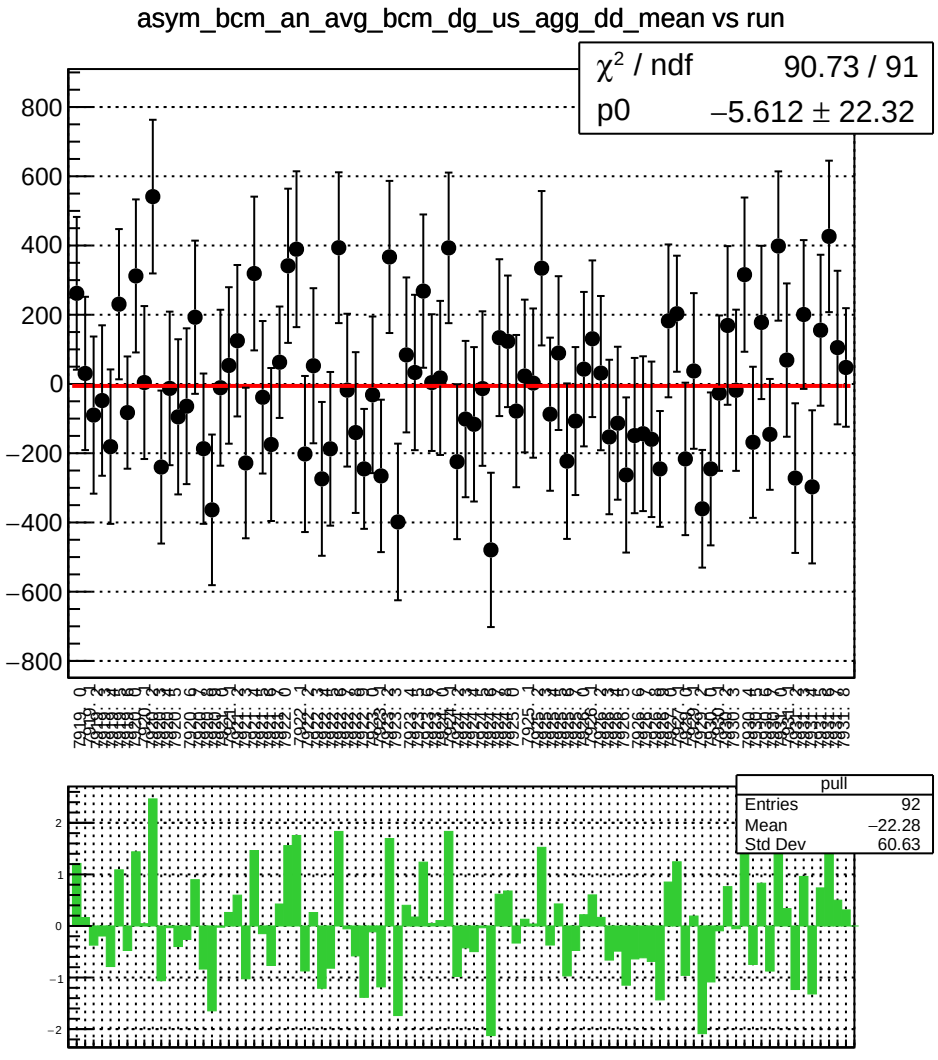

yield_atr2_rms vs run
χ² / ndf 5.793e+04 / 91
p0 0.0006136 ± 4.672e−07
0.0013
0.0012
0.0011
0.001
0.0009
0.0008
0.0007
0.0006
0.0005
0.0004

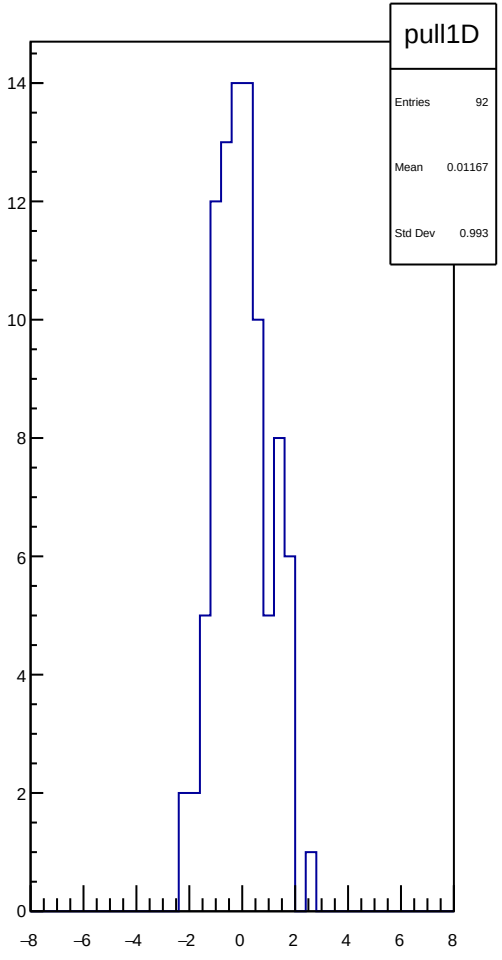

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 26.88 / 91
p0 −75.04 ± 154.2
pull
Entries 92
Mean −194.9
Std Dev 0
pull1D
Entries 92
Mean −0.01149
Std Dev 0.5404

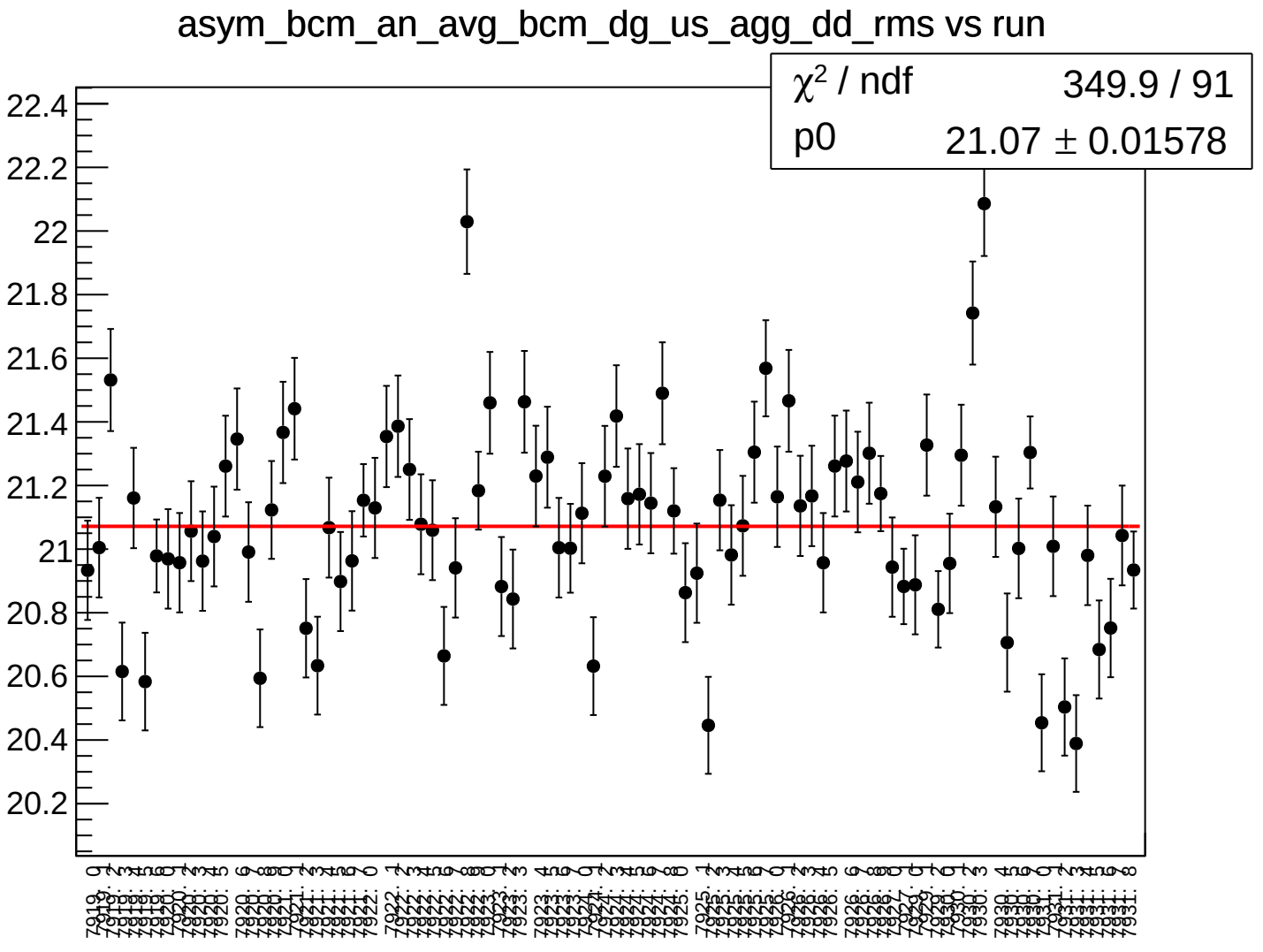

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1348 / 91
p0 145.6 ± 0.1091
160
155
150
145
140

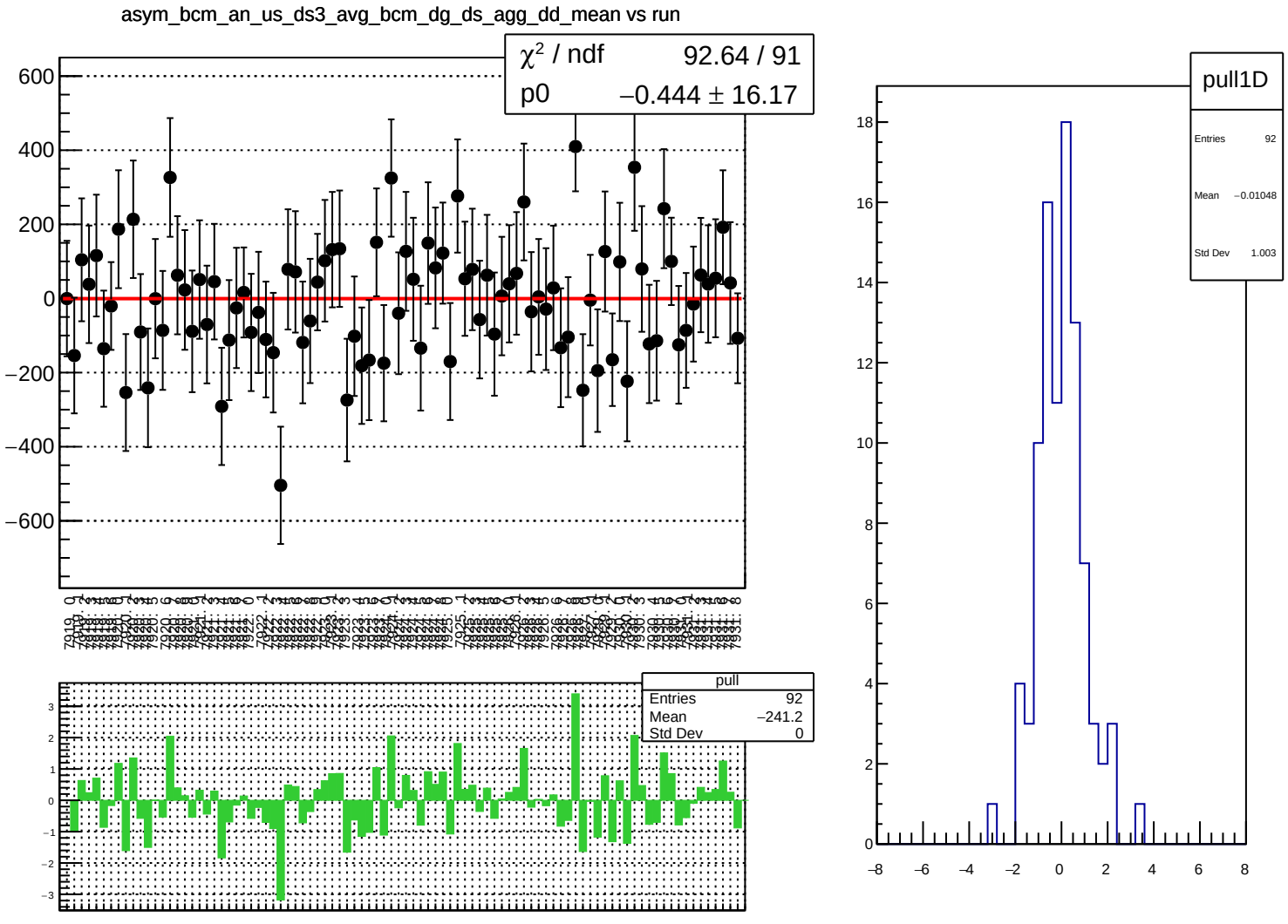

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 92.57 / 91
p0 −0.8947 ± 16.31
pull
Entries 92
Mean −290.7
Std Dev 0
pull1D
Entries 92
Mean −0.01075
Std Dev 1.003

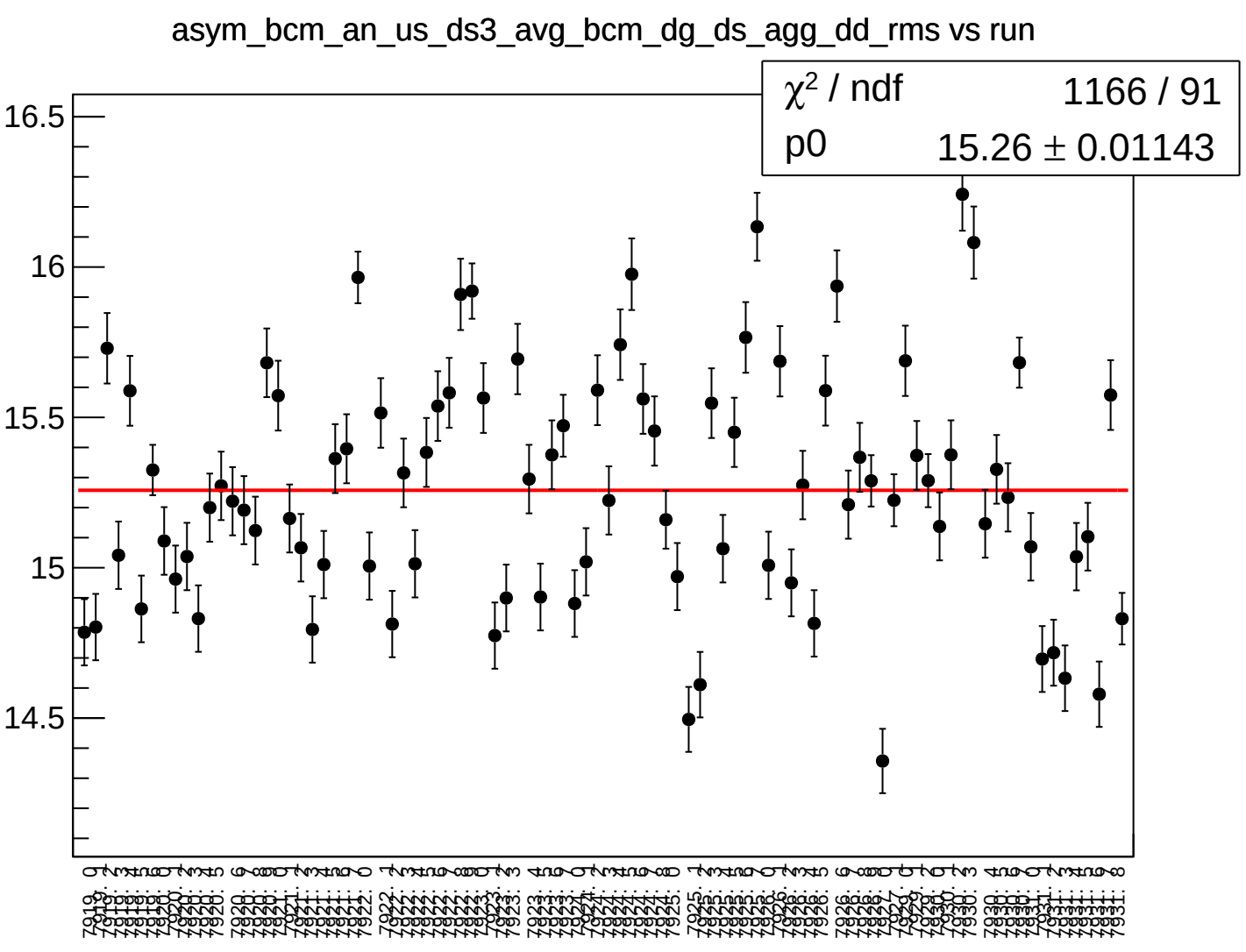

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1702 / 91
p0 15.4 ± 0.01154
16.5
16
15.5
15
14.5

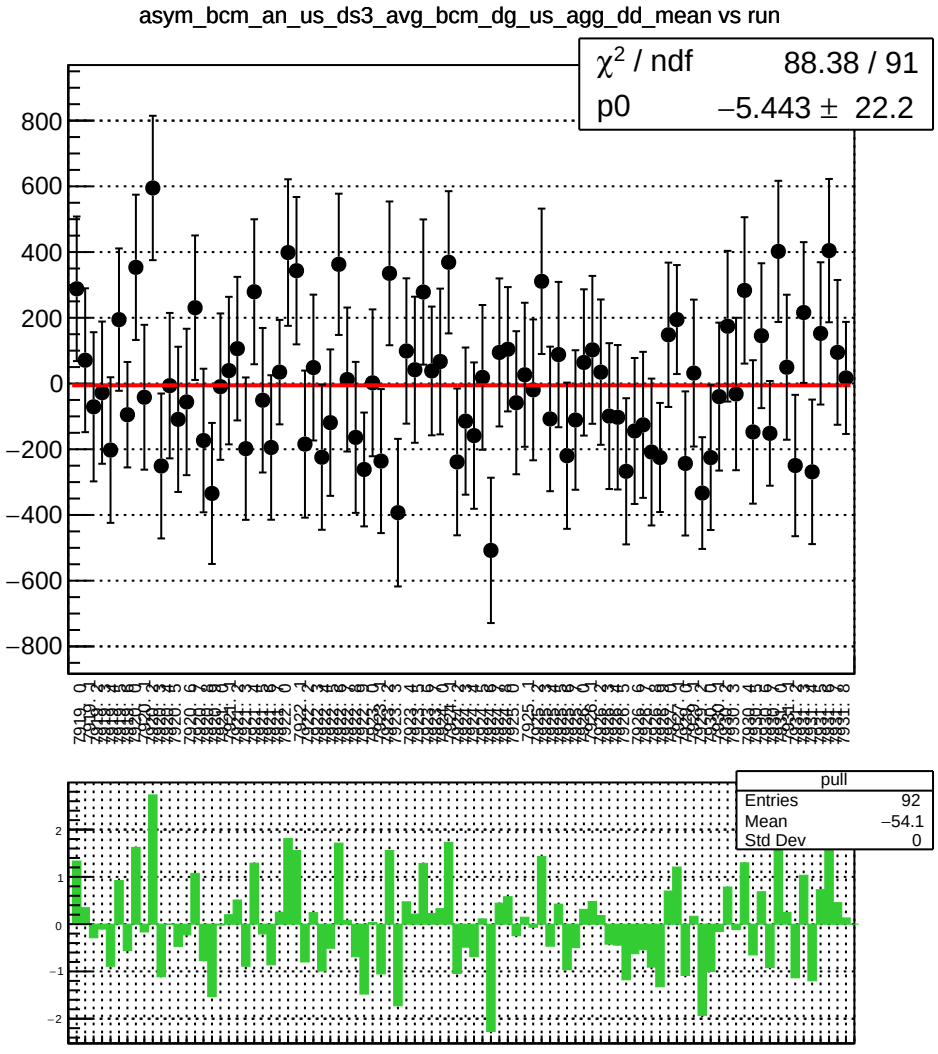

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 90.73 / 91
p0 −5.612 ± 22.32
pull
Entries 92
Mean −22.28
Std Dev 60.63

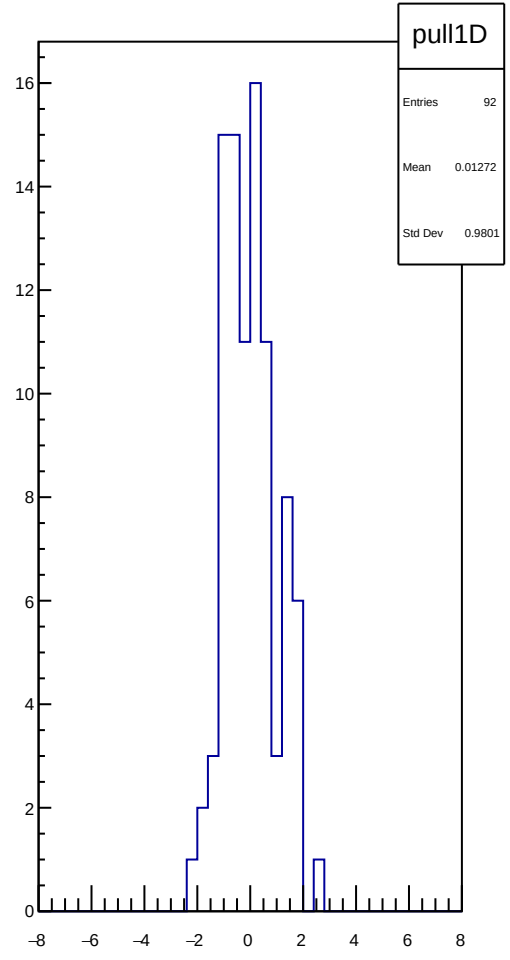

pull1D
Entries 92
Mean 0.01167
Std Dev 0.993

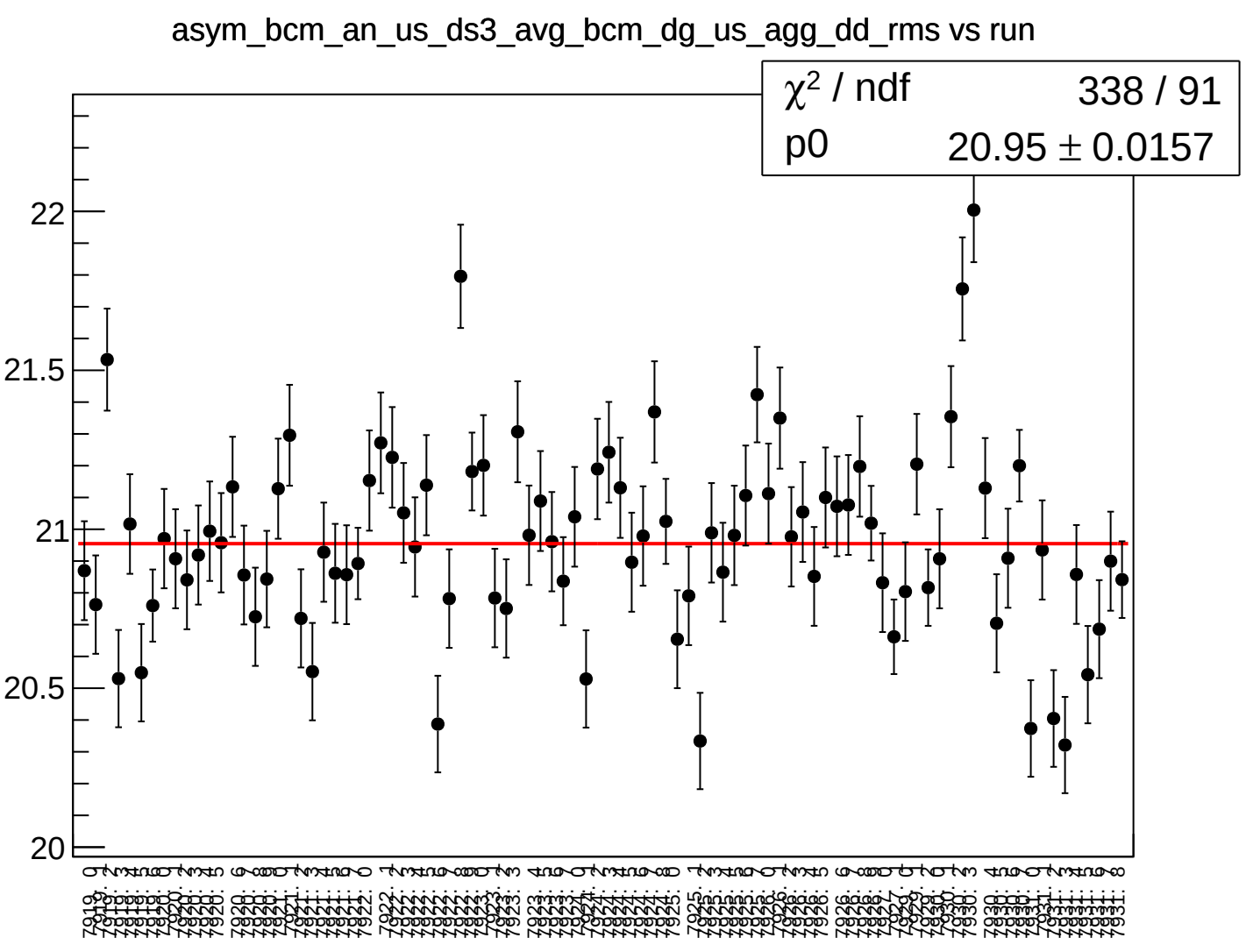

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 349.9 / 91
p0 21.07 ± 0.01578
22.4
22.2
22
21.8
21.6
21.4
21.2
21
20.8
20.6
20.4
20.2

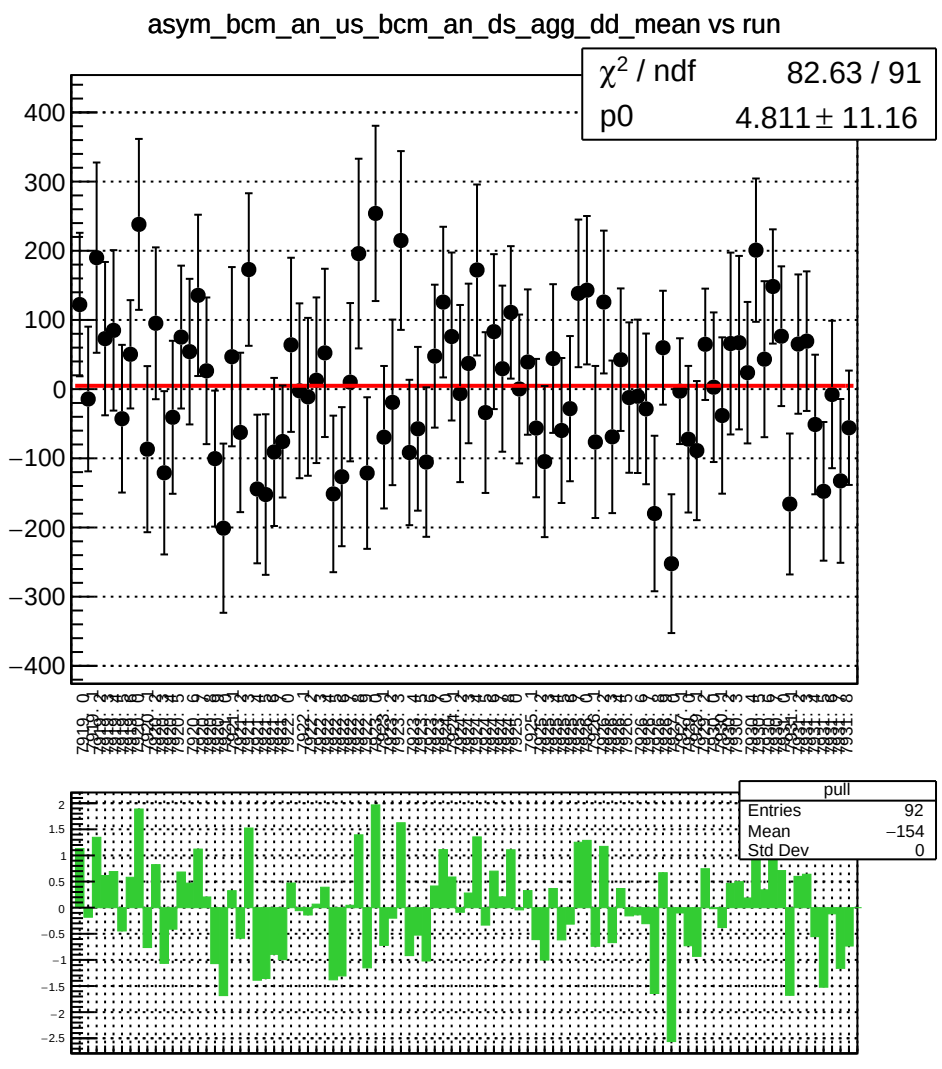

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 92.64 / 91
p0 −0.444 ± 16.17
pull
Entries 92
Mean −241.2
Std Dev 0
pull1D
Entries 92
Mean −0.01048
Std Dev 1.003

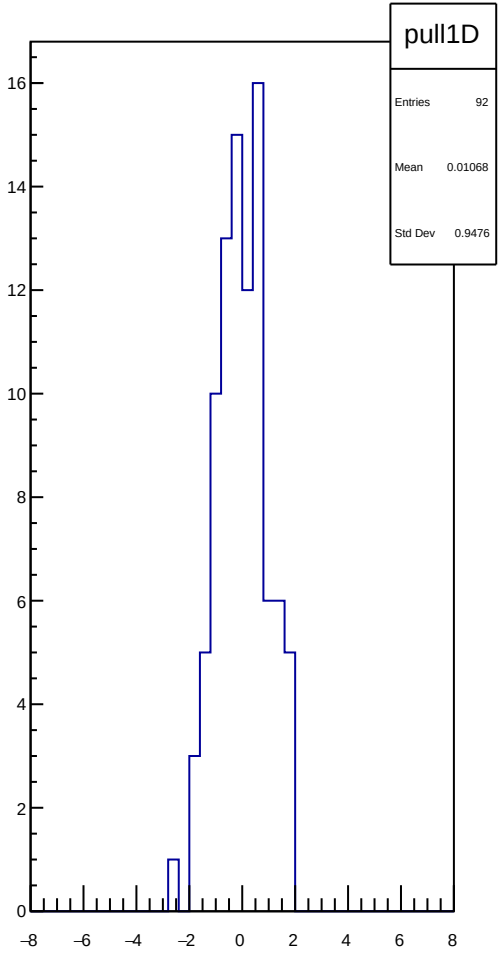

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1166 / 91
p0 15.26 ± 0.01143
16.5
16
15.5
15
14.5

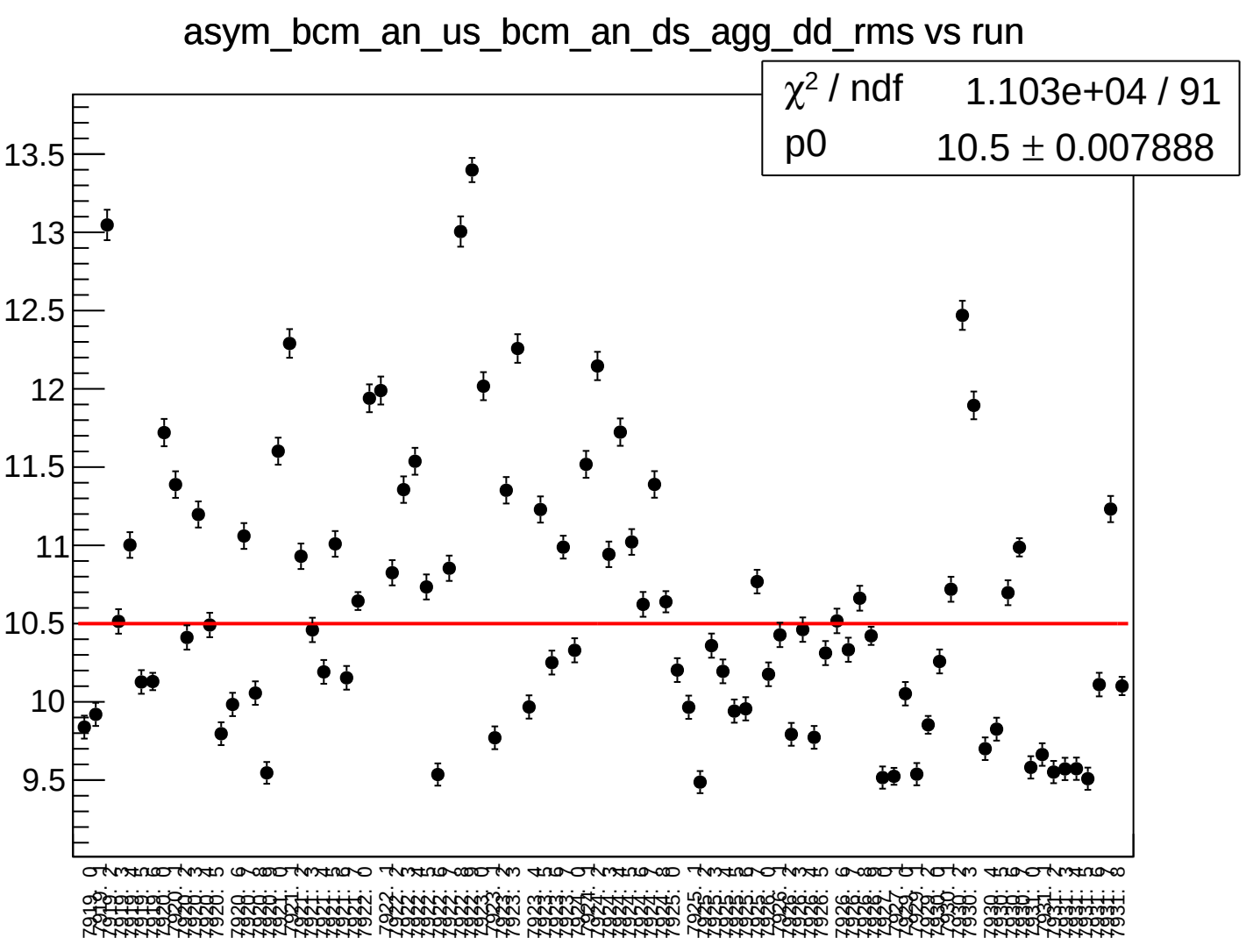

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 88.38 / 91
p0 −5.443 ± 22.2
pull
Entries 92
Mean −54.1
Std Dev 0

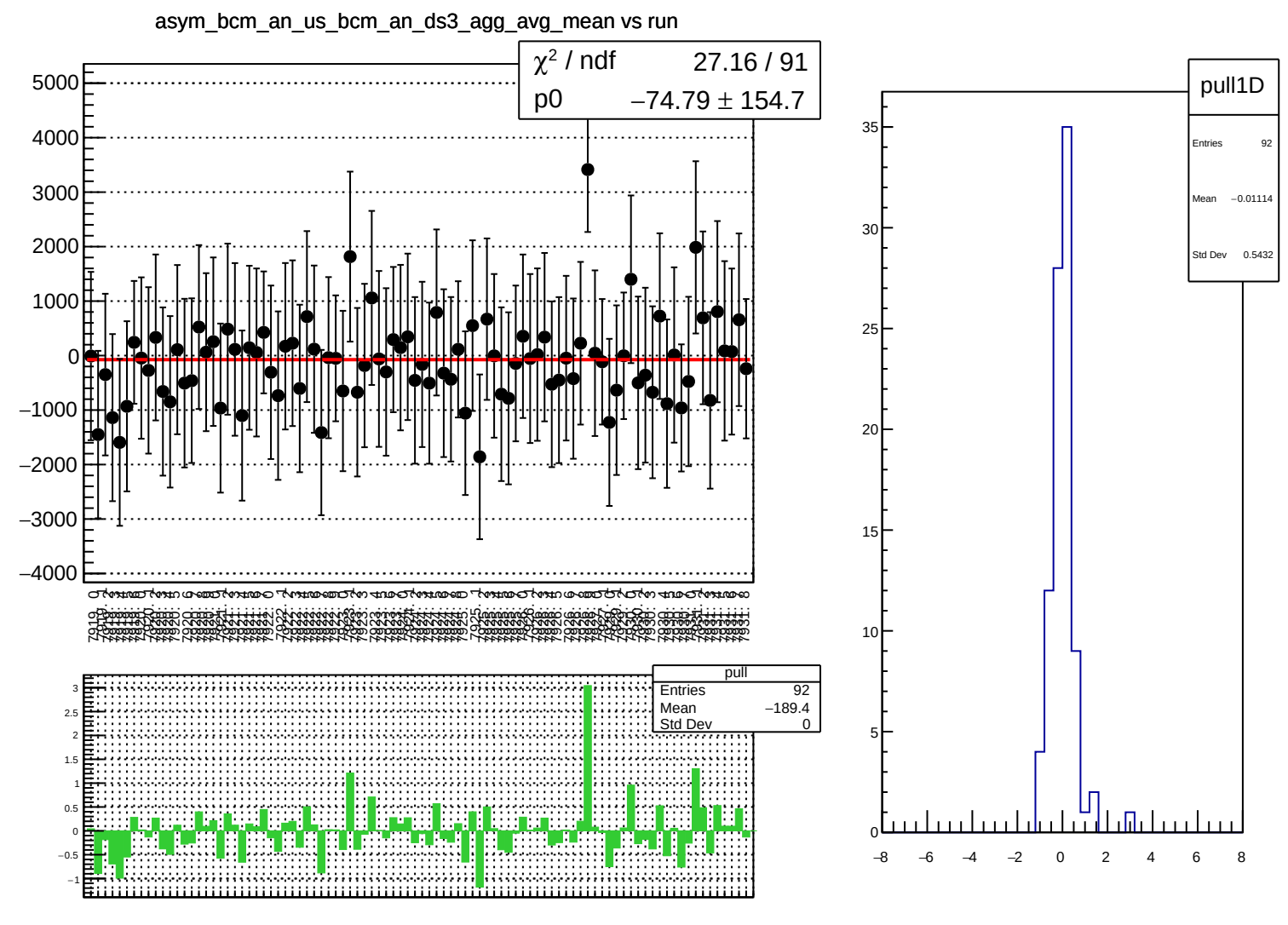

pull1D
Entries 92
Mean 0.01272
Std Dev 0.9801

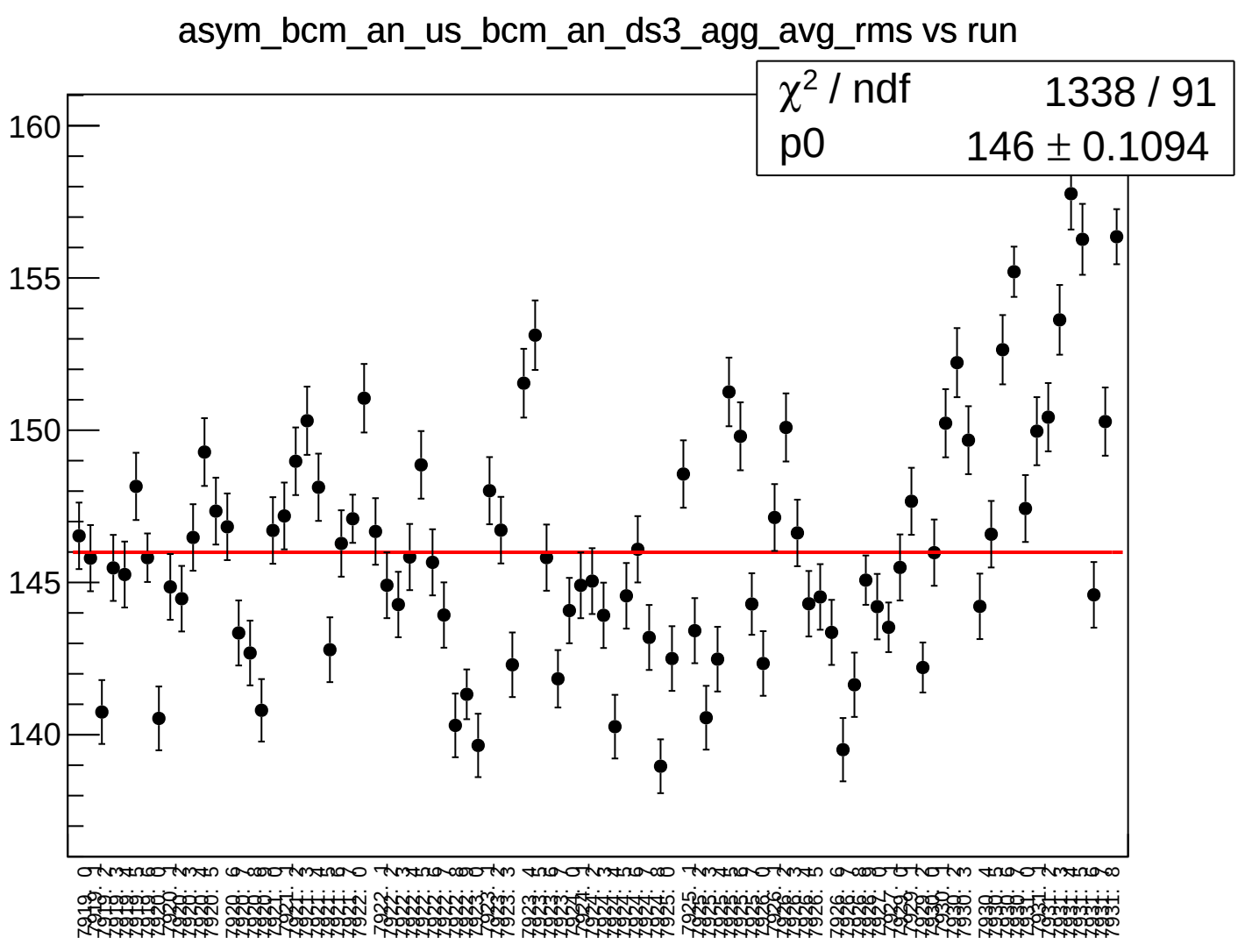

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 338 / 91
p0 20.95 ± 0.0157
22
21.5
21
20.5
20

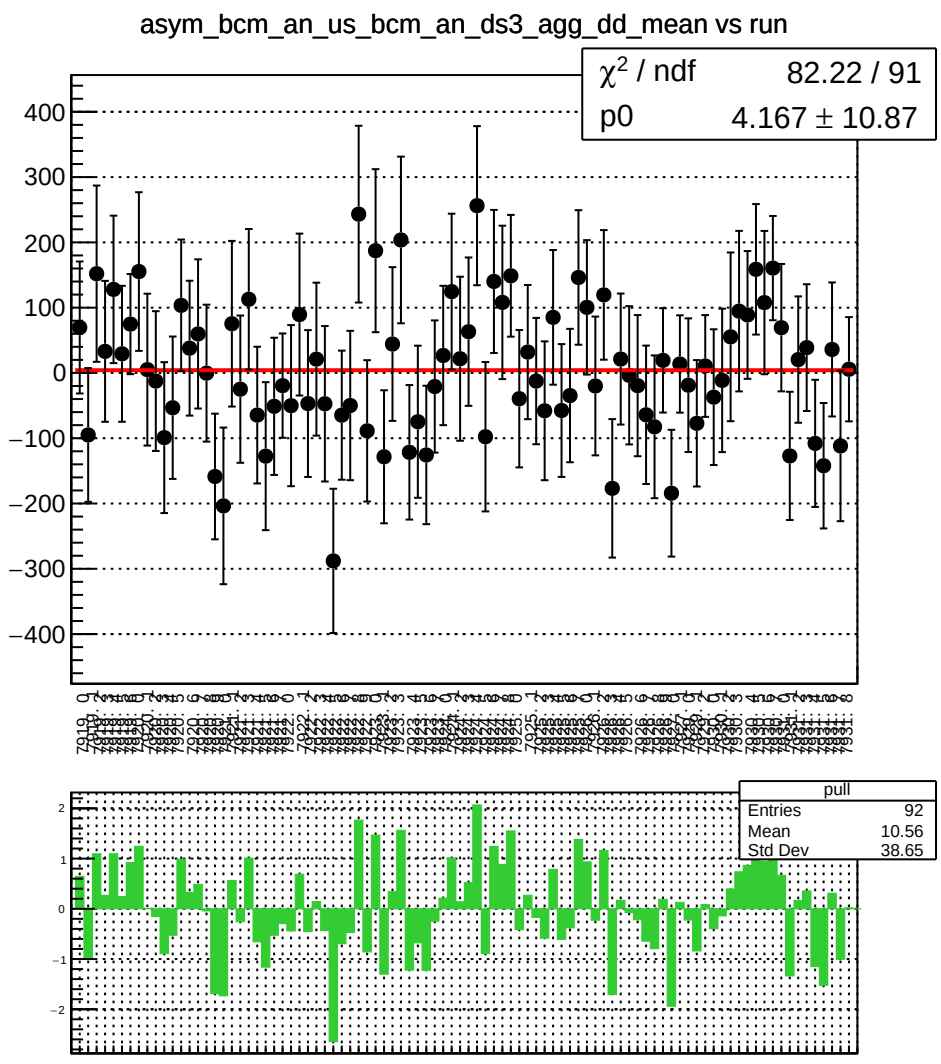

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 82.63 / 91
p0 4.811 ± 11.16
pull
Entries 92
Mean −154
Std Dev 0

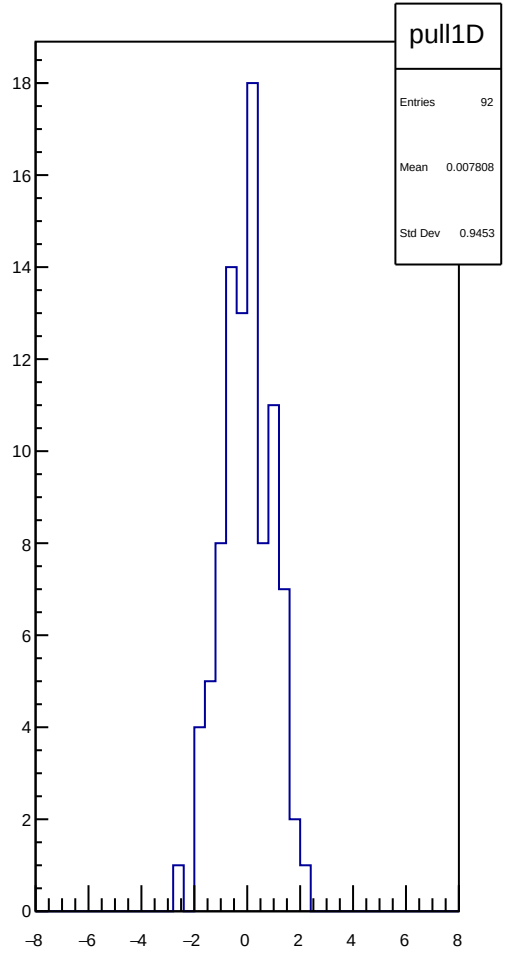

pull1D
Entries 92
Mean 0.01068
Std Dev 0.9476

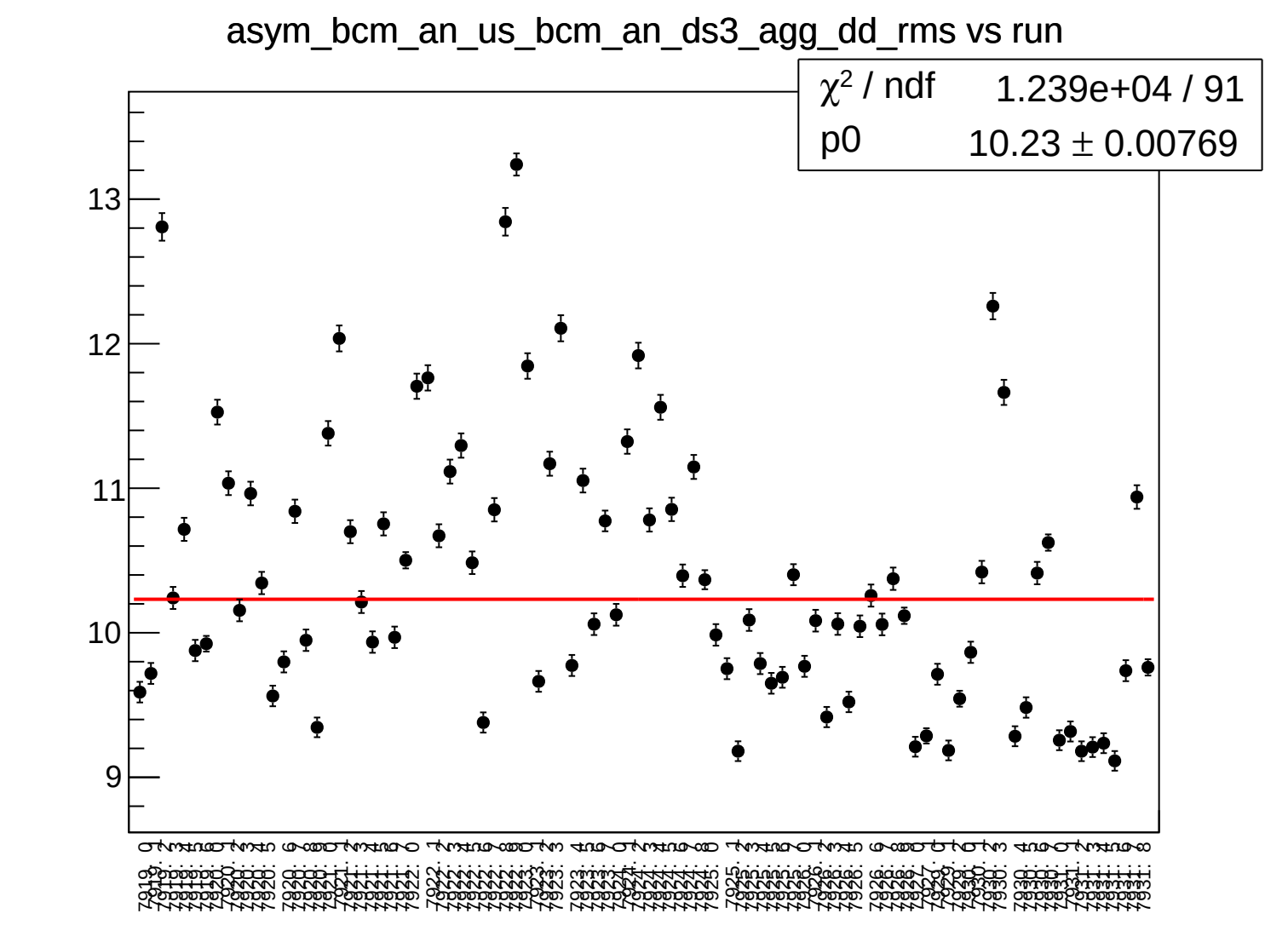

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1.103e+04 / 91
p0 10.5 ± 0.007888
13.5
13
12.5
12
11.5
11
10.5
10
9.5

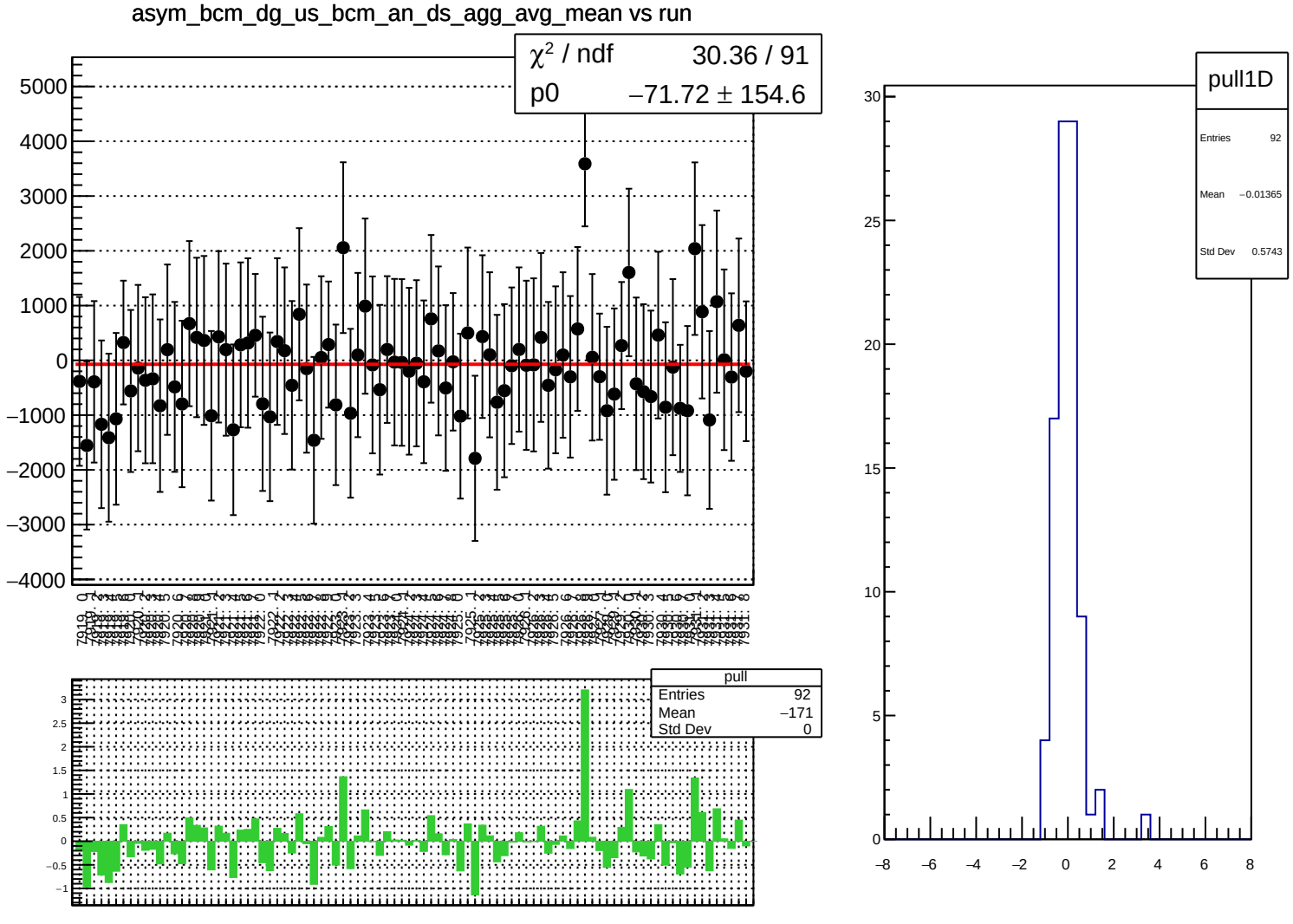

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 27.16 / 91
p0 −74.79 ± 154.7
pull
Entries 92
Mean −189.4
Std Dev 0
pull1D
Entries 92
Mean −0.01114
Std Dev 0.5432

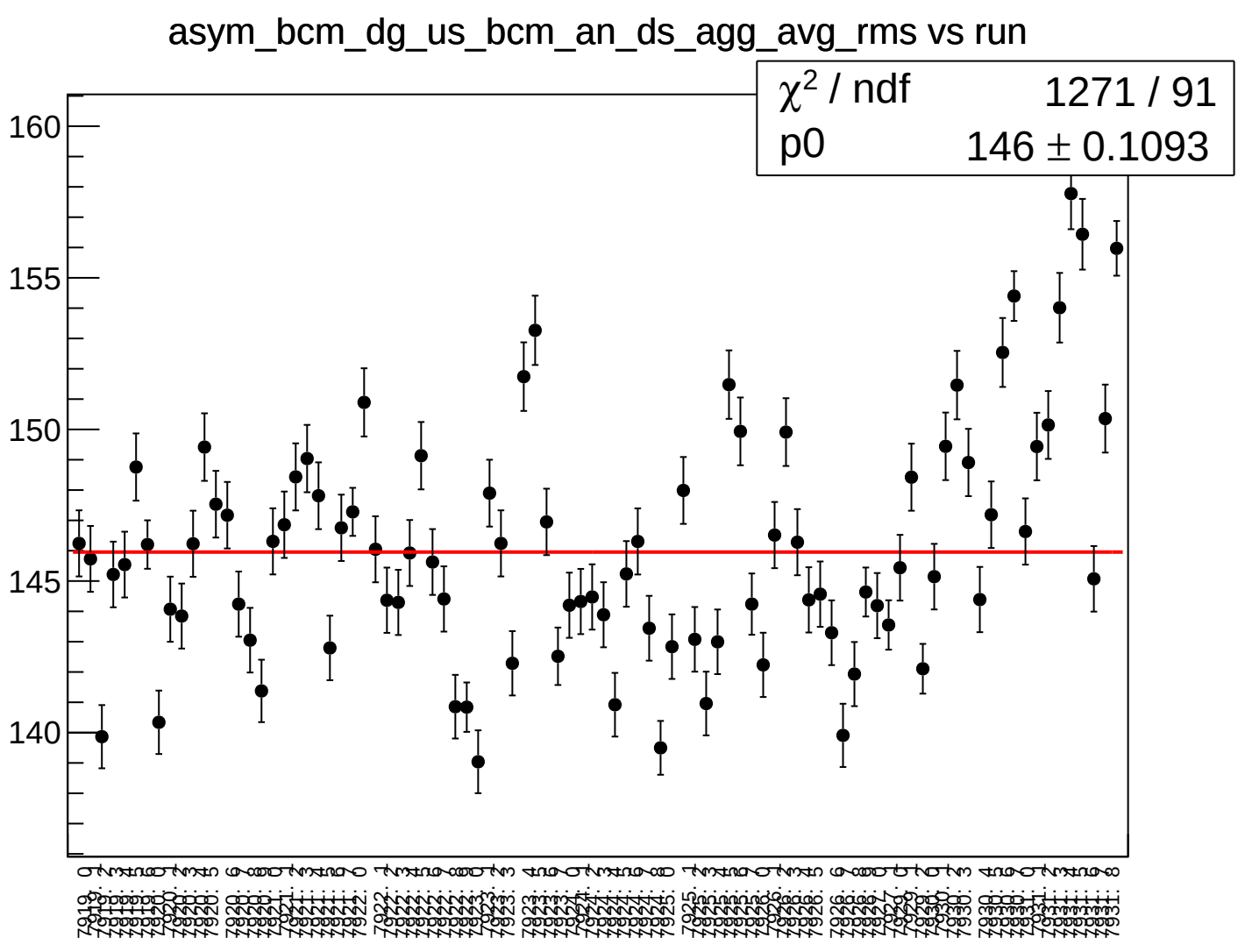

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 1338 / 91
p0 146 ± 0.1094
160
155
150
145
140

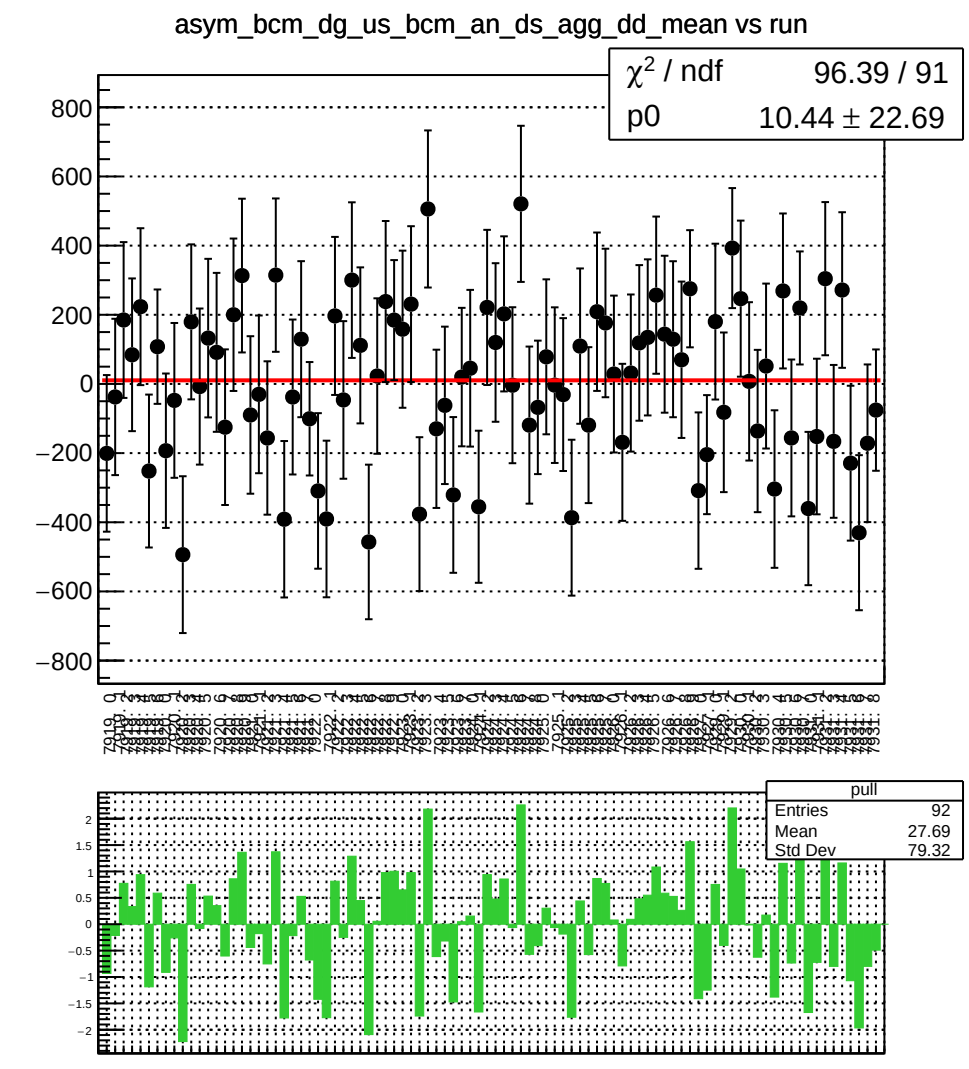

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 82.22 / 91
p0 4.167 ± 10.87
pull
Entries 92
Mean 10.56
Std Dev 38.65

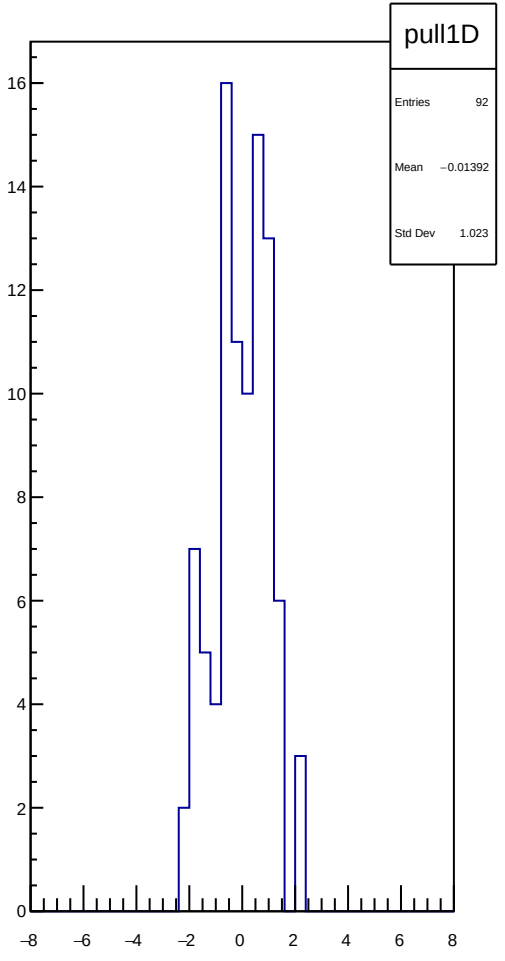

pull1D
Entries 92
Mean 0.007808
Std Dev 0.9453

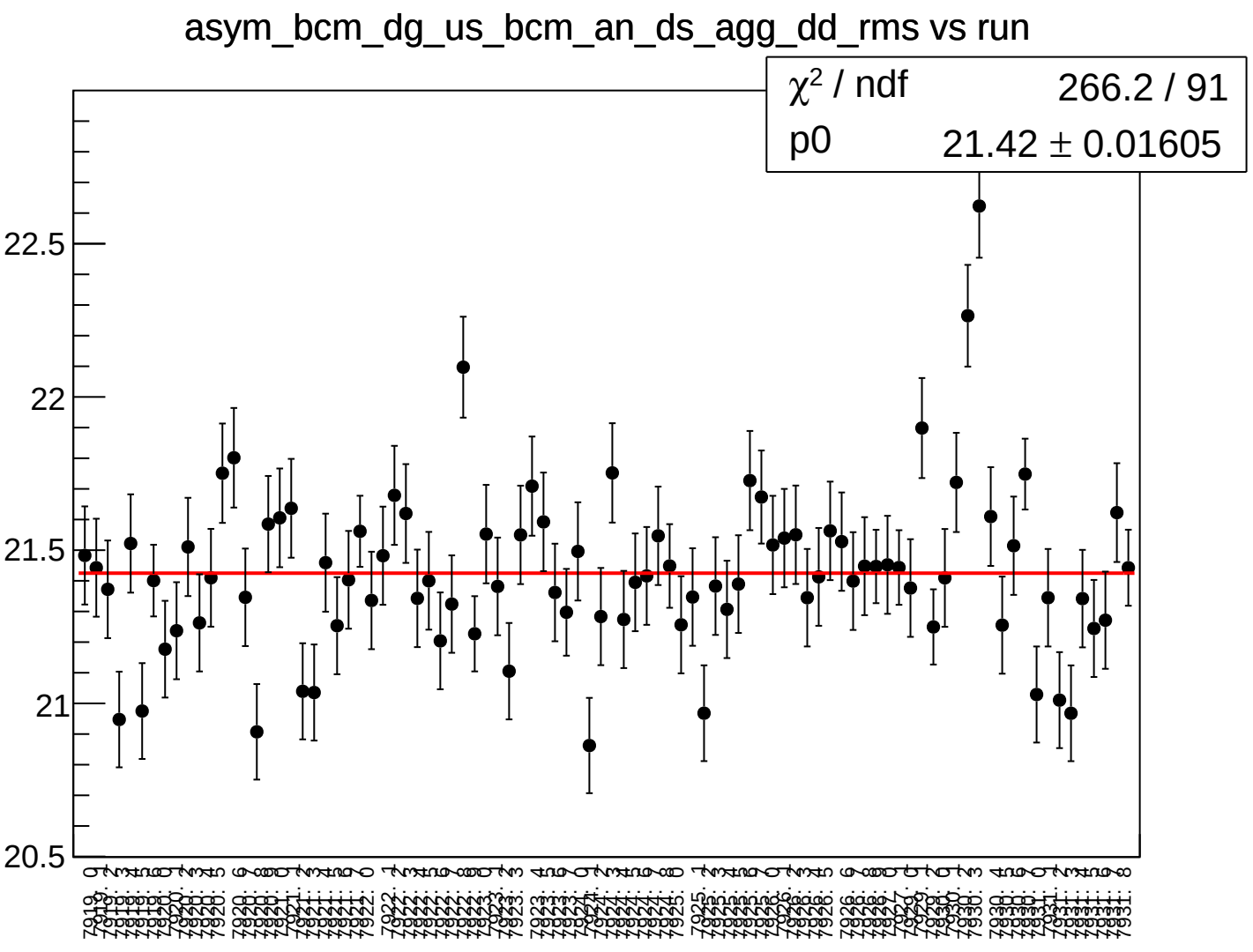

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 1.239e+04 / 91
p0 10.23 ± 0.00769
13
12
11
10
9

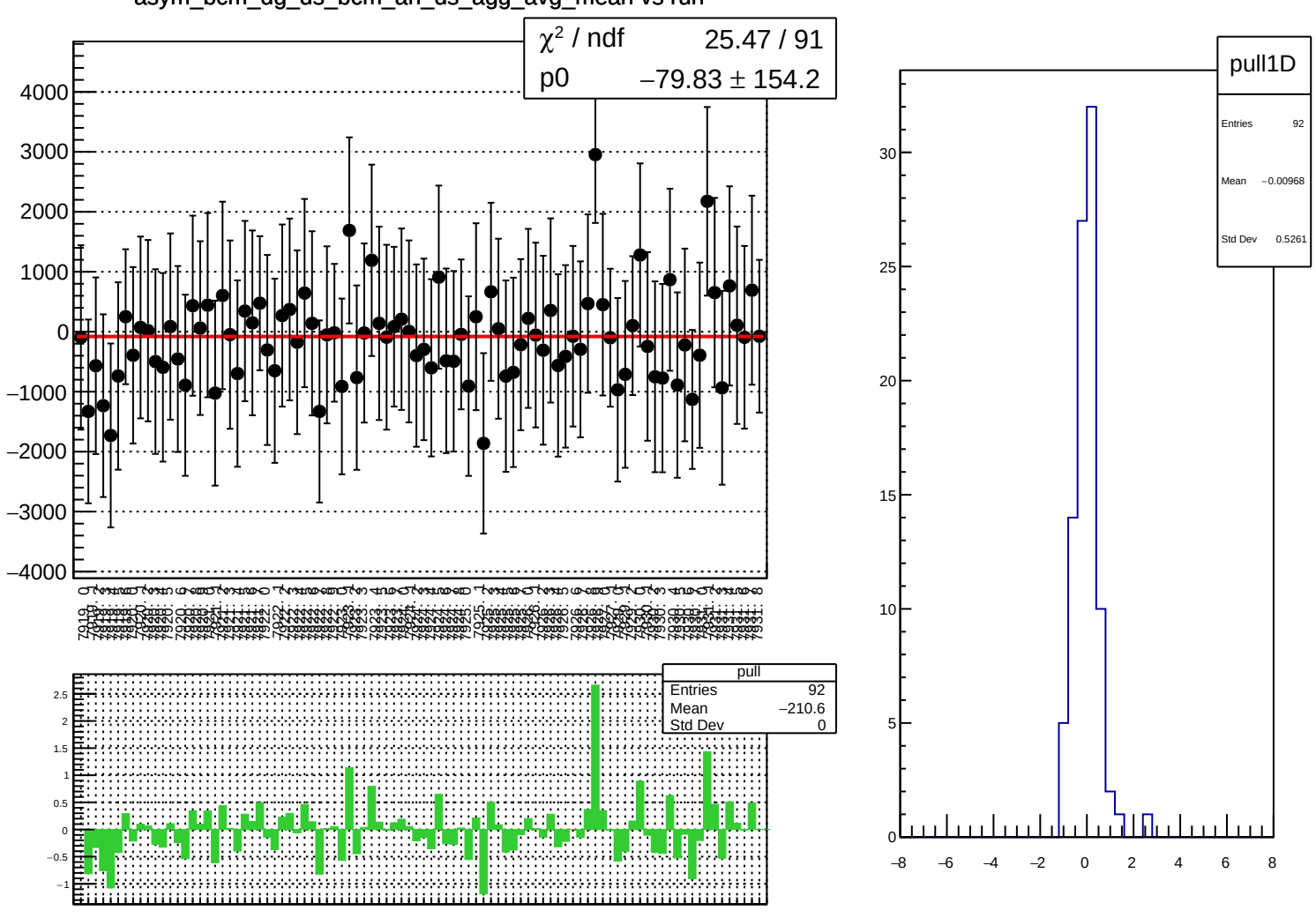

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 30.36 / 91
p0 −71.72 ± 154.6
pull
Entries 92
Mean −171
Std Dev 0
pull1D
Entries 92
Mean −0.01365
Std Dev 0.5743

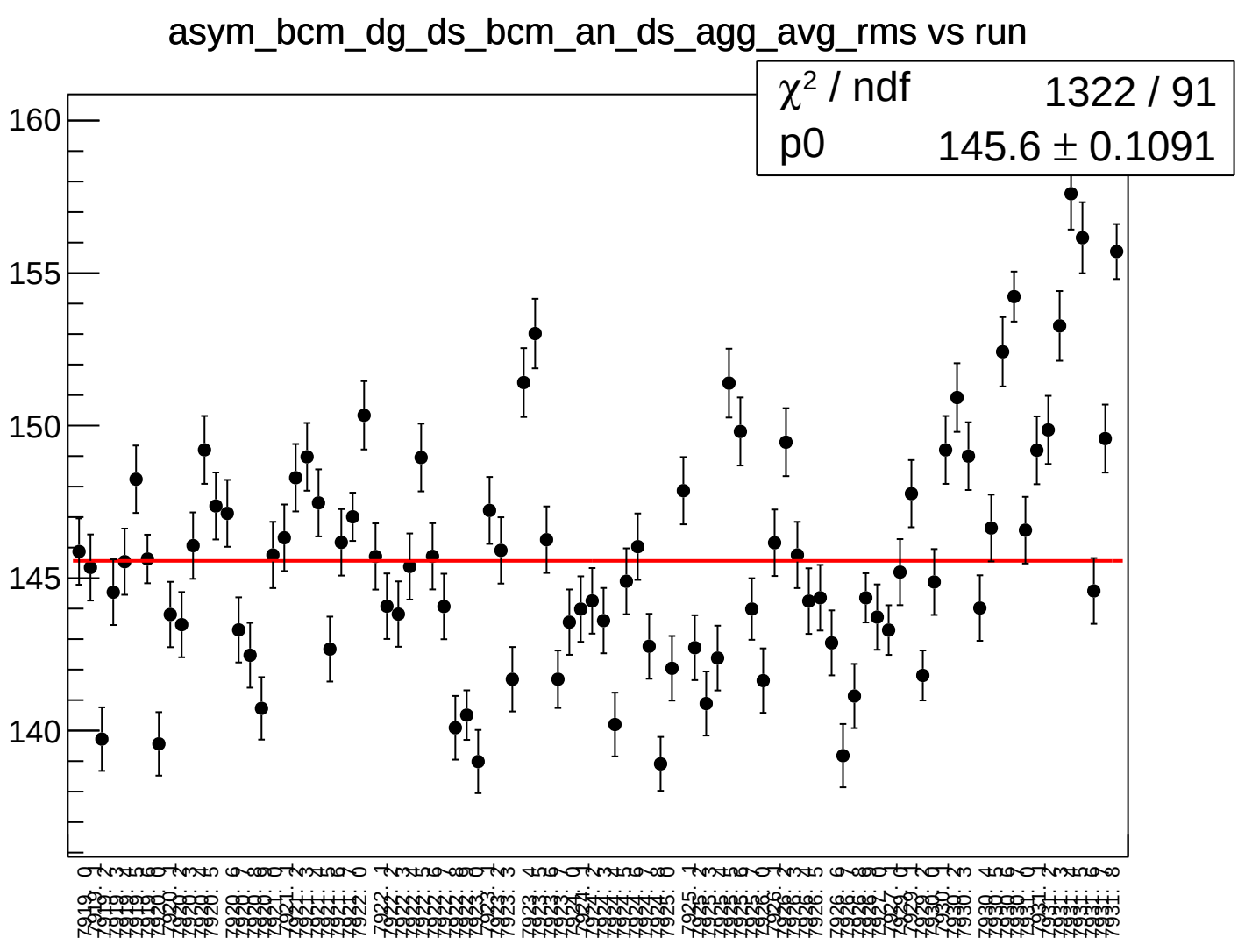

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1271 / 91
p0 146 ± 0.1093
160
155
150
145
140

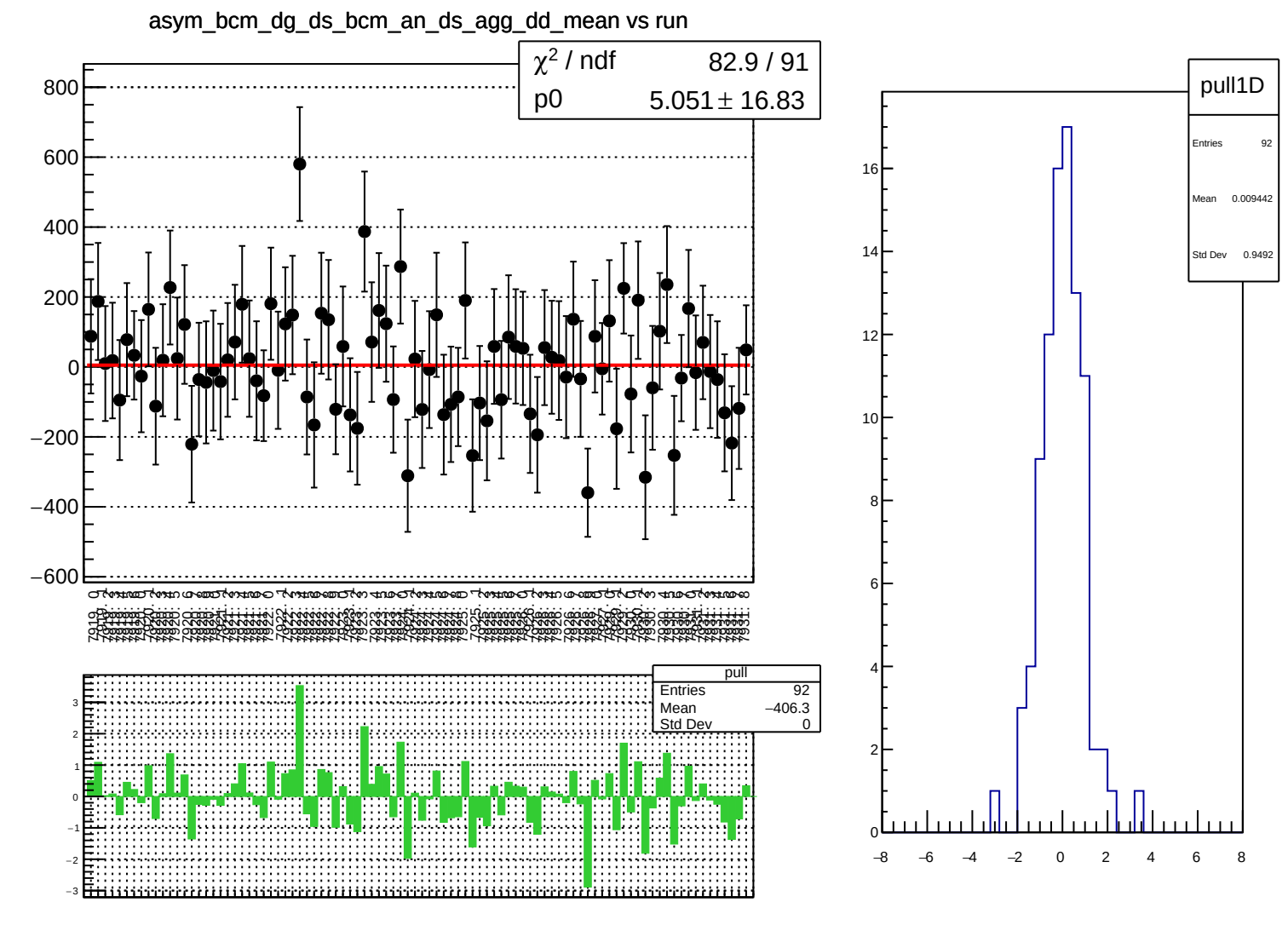

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 96.39 / 91
p0 10.44 ± 22.69
pull
Entries 92
Mean 27.69
Std Dev 79.32

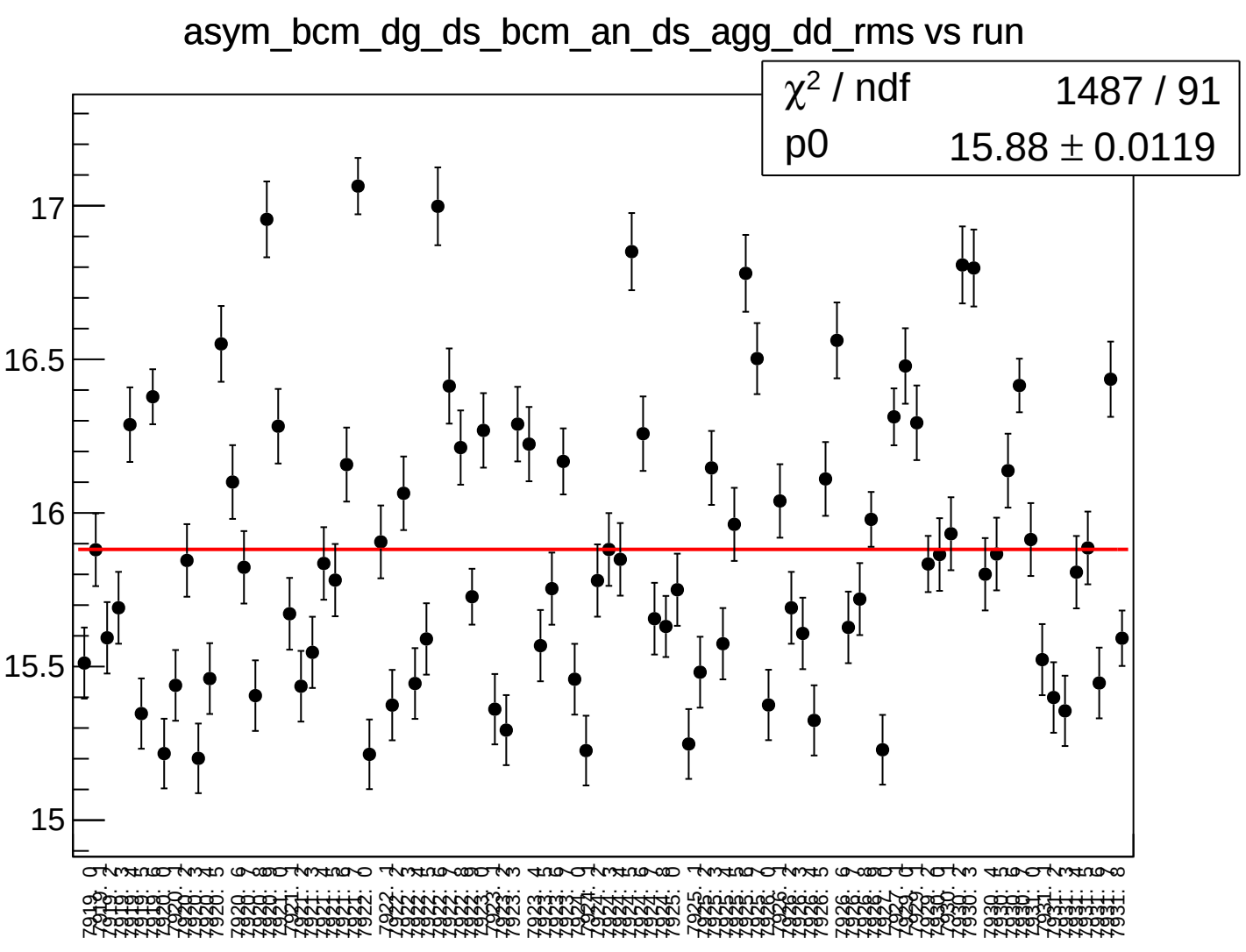

pull1D
Entries 92
Mean −0.01392
Std Dev 1.023

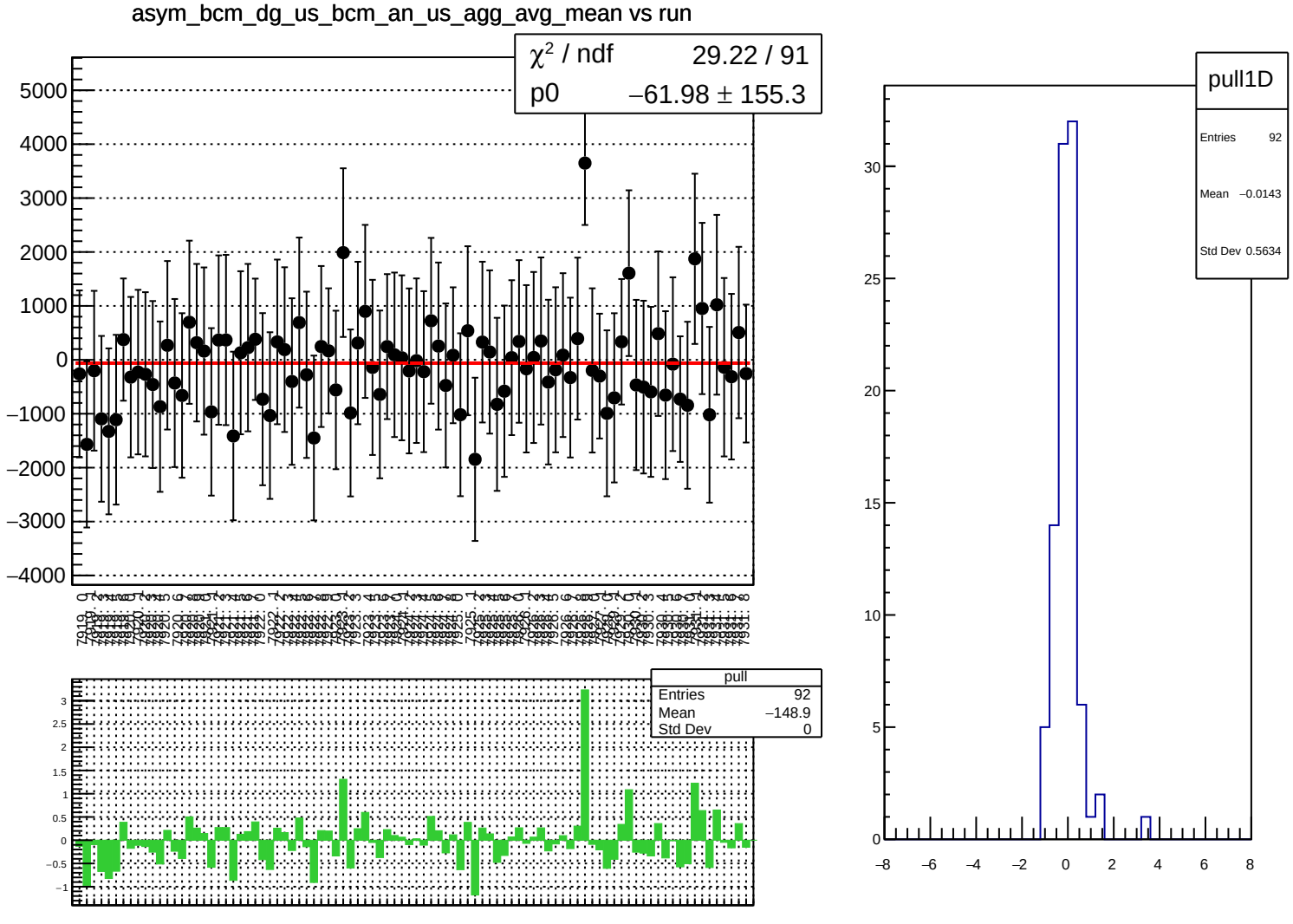

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 266.2 / 91
p0 21.42 ± 0.01605
22.5
22
21.5
21
20.5

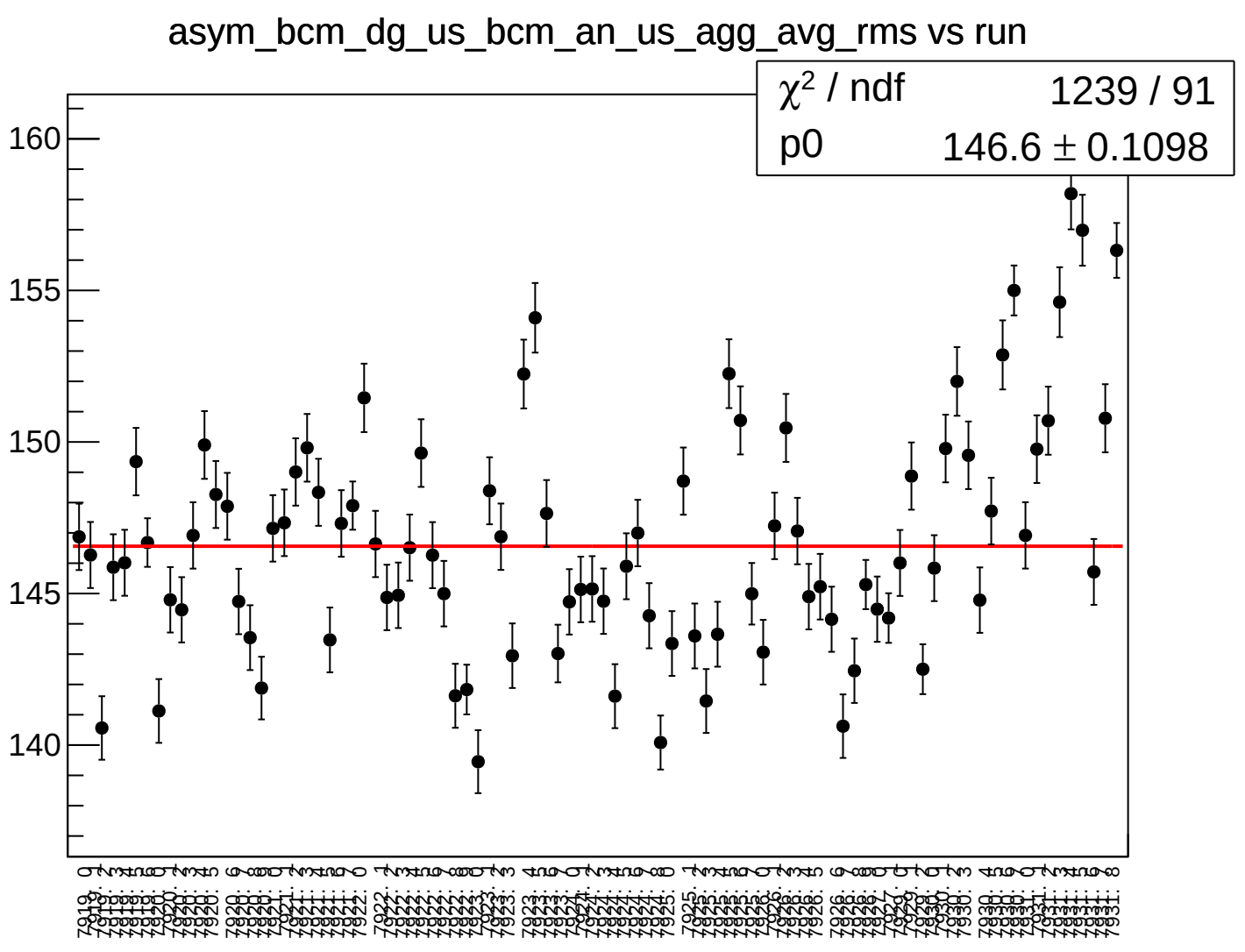

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 25.47 / 91
p0 −79.83 ± 154.2
pull
Entries 92
Mean −210.6
Std Dev 0
pull1D
Entries 92
Mean −0.00968
Std Dev 0.5261

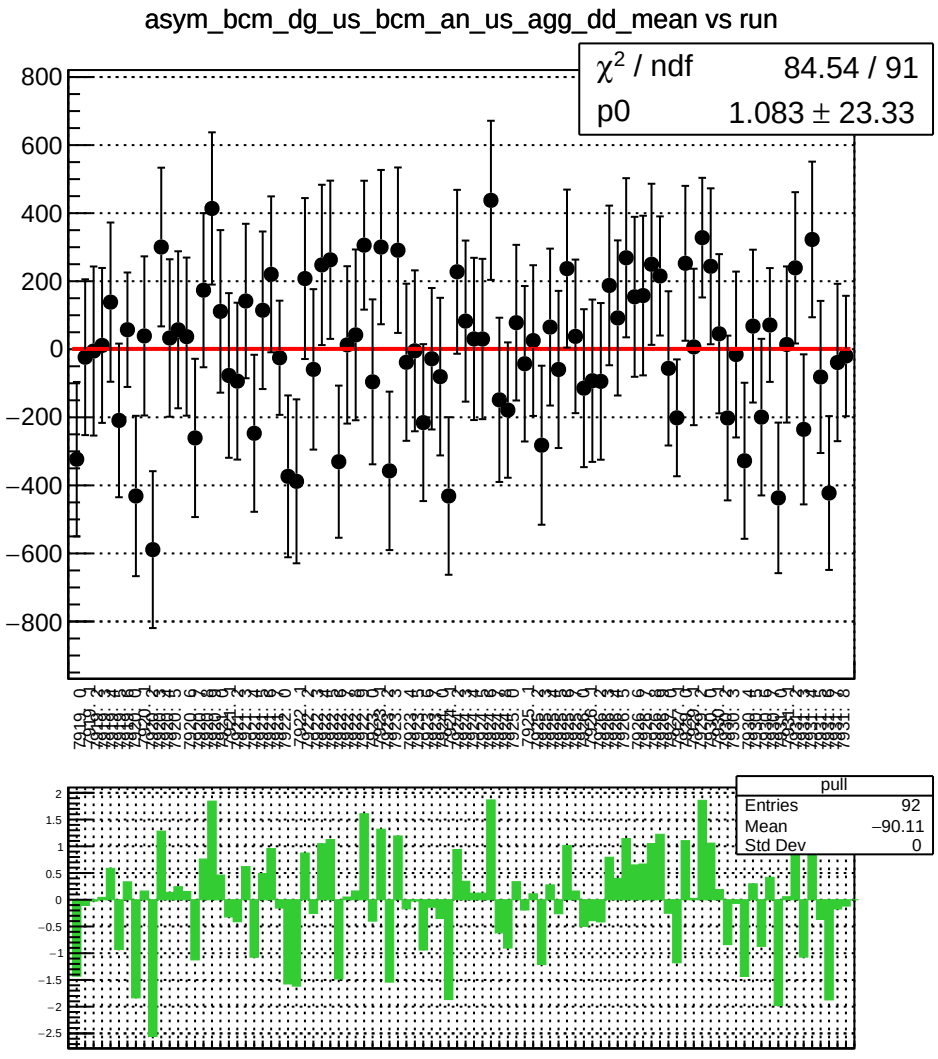

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1322 / 91
p0 145.6 ± 0.1091
160
155
150
145
140

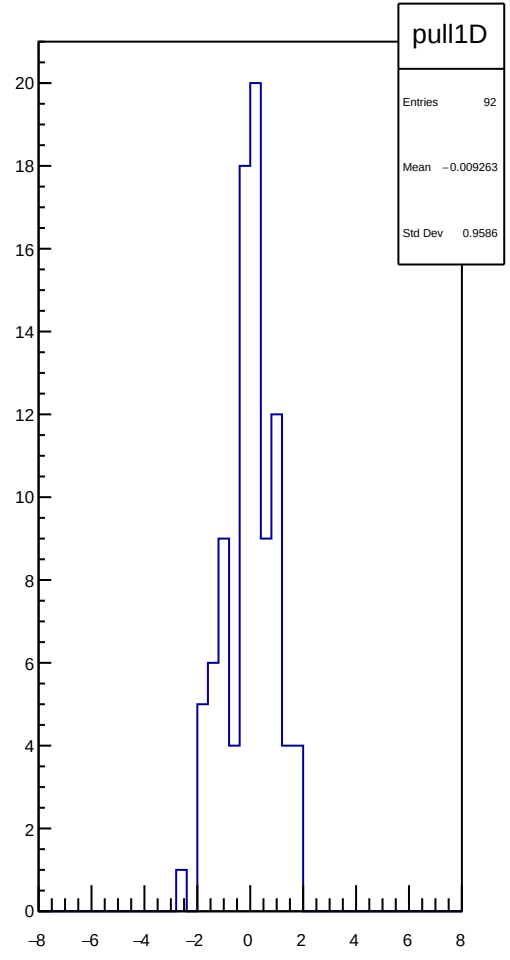

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 82.9 / 91
p0 5.051 ± 16.83
pull
Entries 92
Mean −406.3
Std Dev 0
pull1D
Entries 92
Mean 0.009442
Std Dev 0.9492

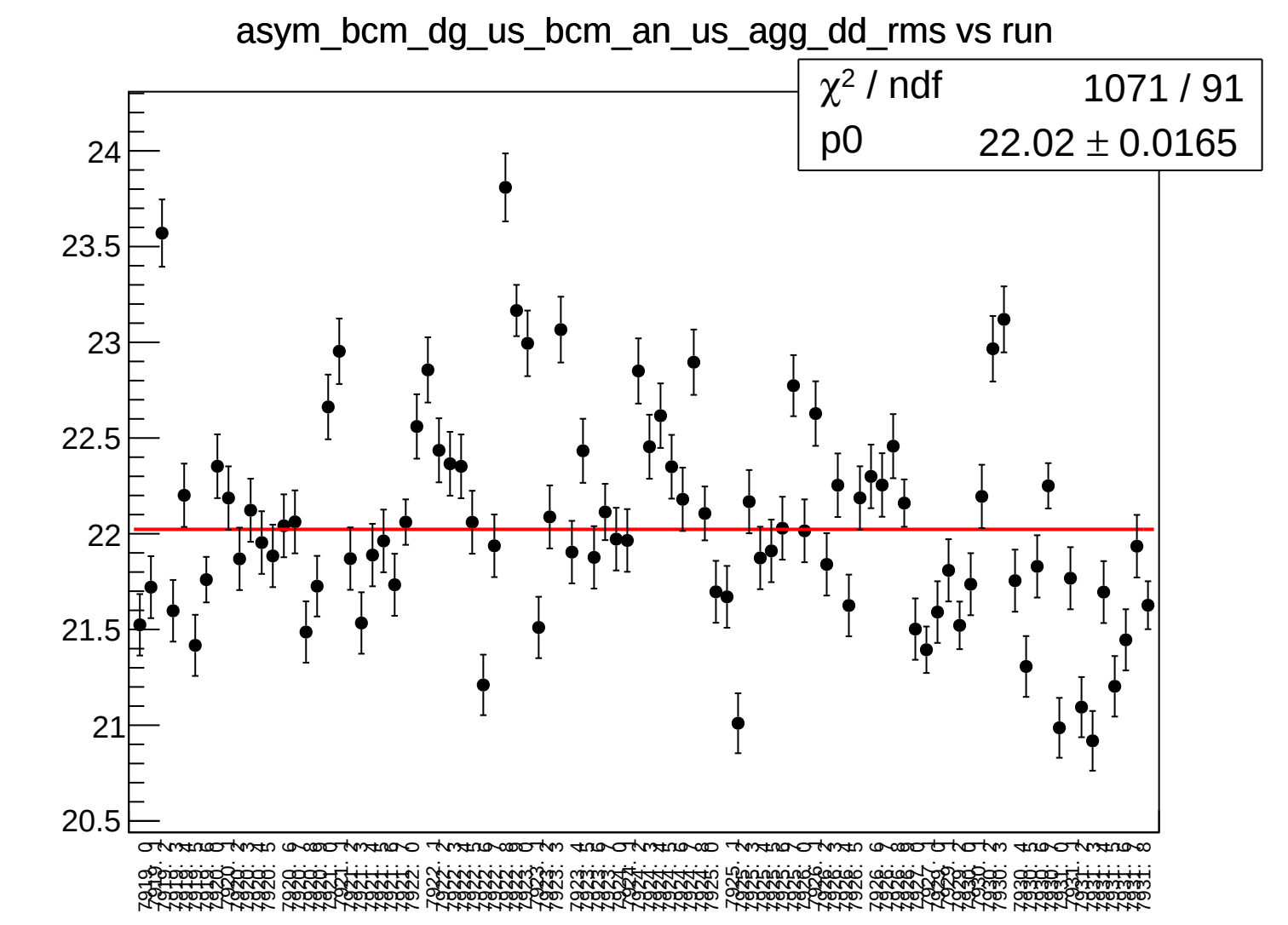

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1487 / 91
p0 15.88 ± 0.0119
17
16.5
16
15.5
15

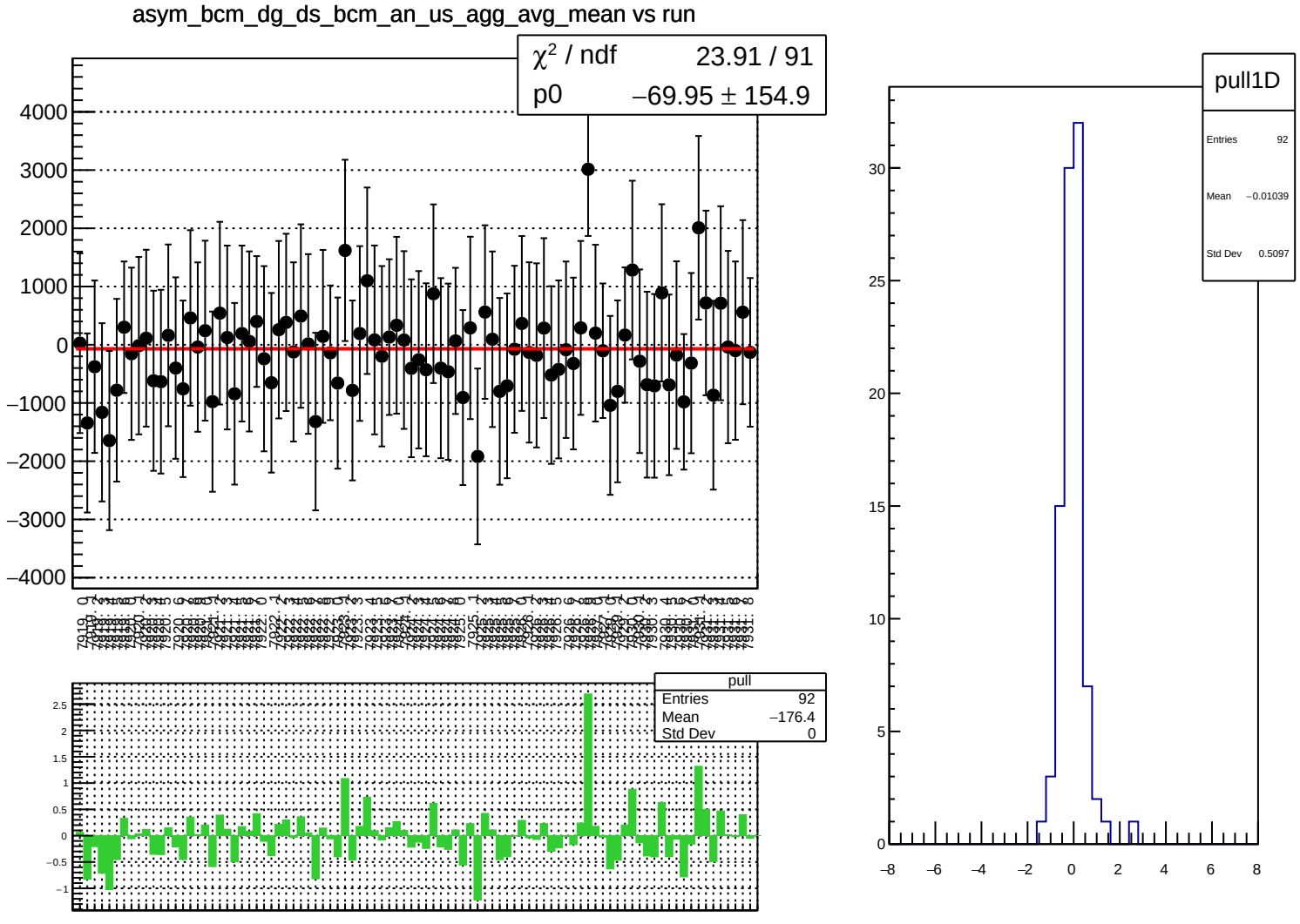

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 29.22 / 91
p0 −61.98 ± 155.3
pull
Entries 92
Mean −148.9
Std Dev 0
pull1D
Entries 92
Mean −0.0143
Std Dev 0.5634

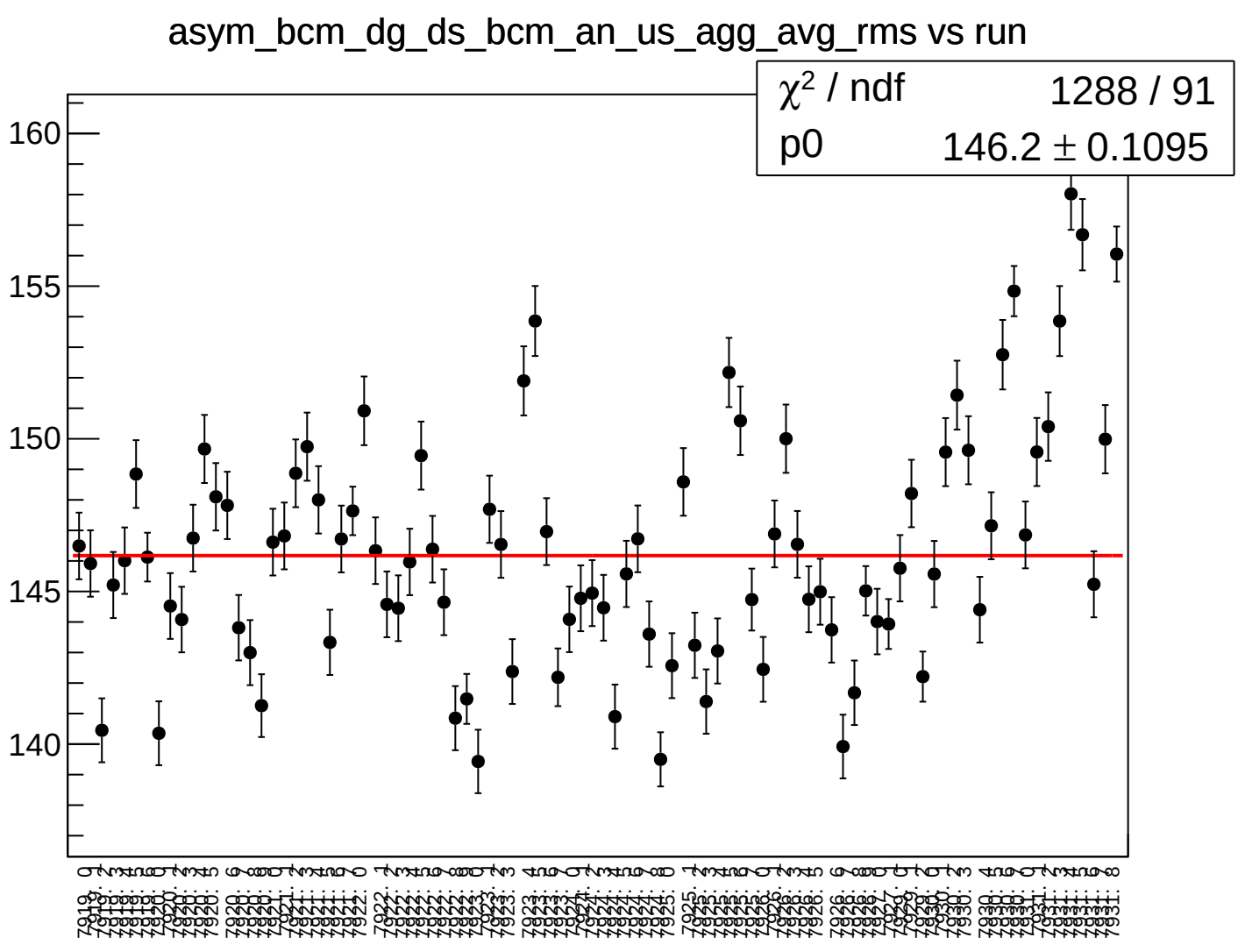

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1239 / 91
p0 146.6 ± 0.1098
160
155
150
145
140

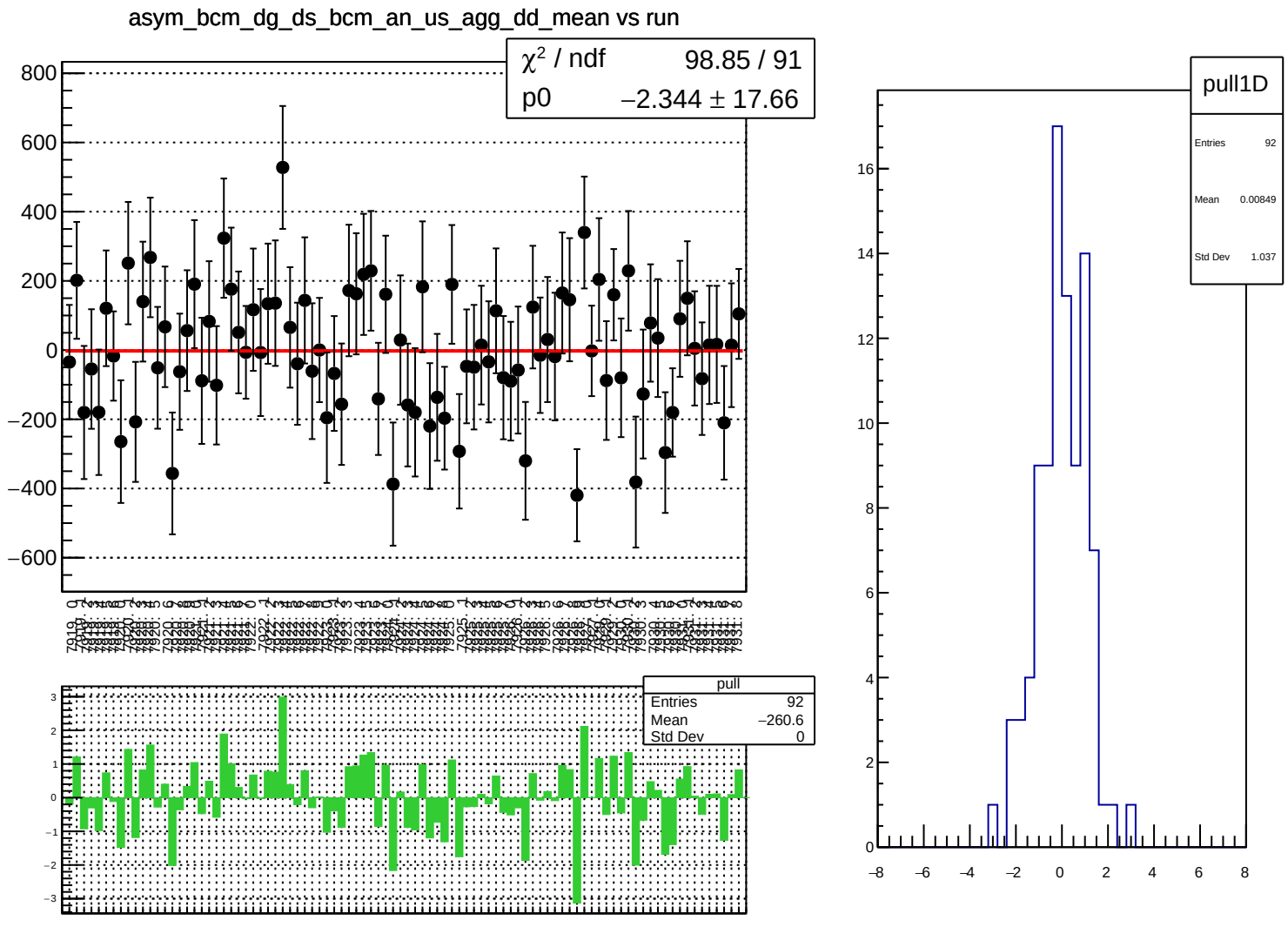

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 84.54 / 91
p0 1.083 ± 23.33
pull
Entries 92
Mean −90.11
Std Dev 0

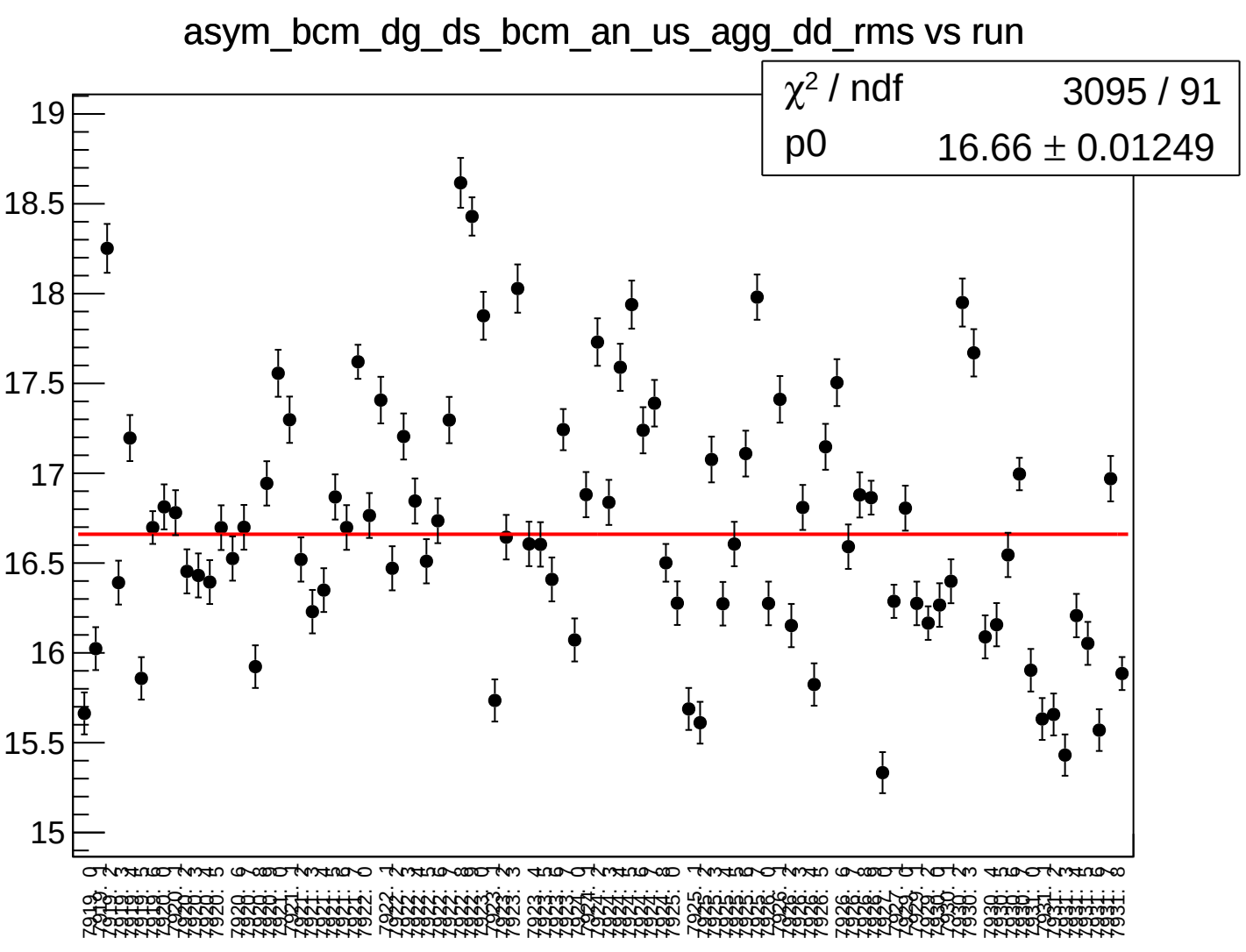

pull1D
Entries 92
Mean −0.009263
Std Dev 0.9586

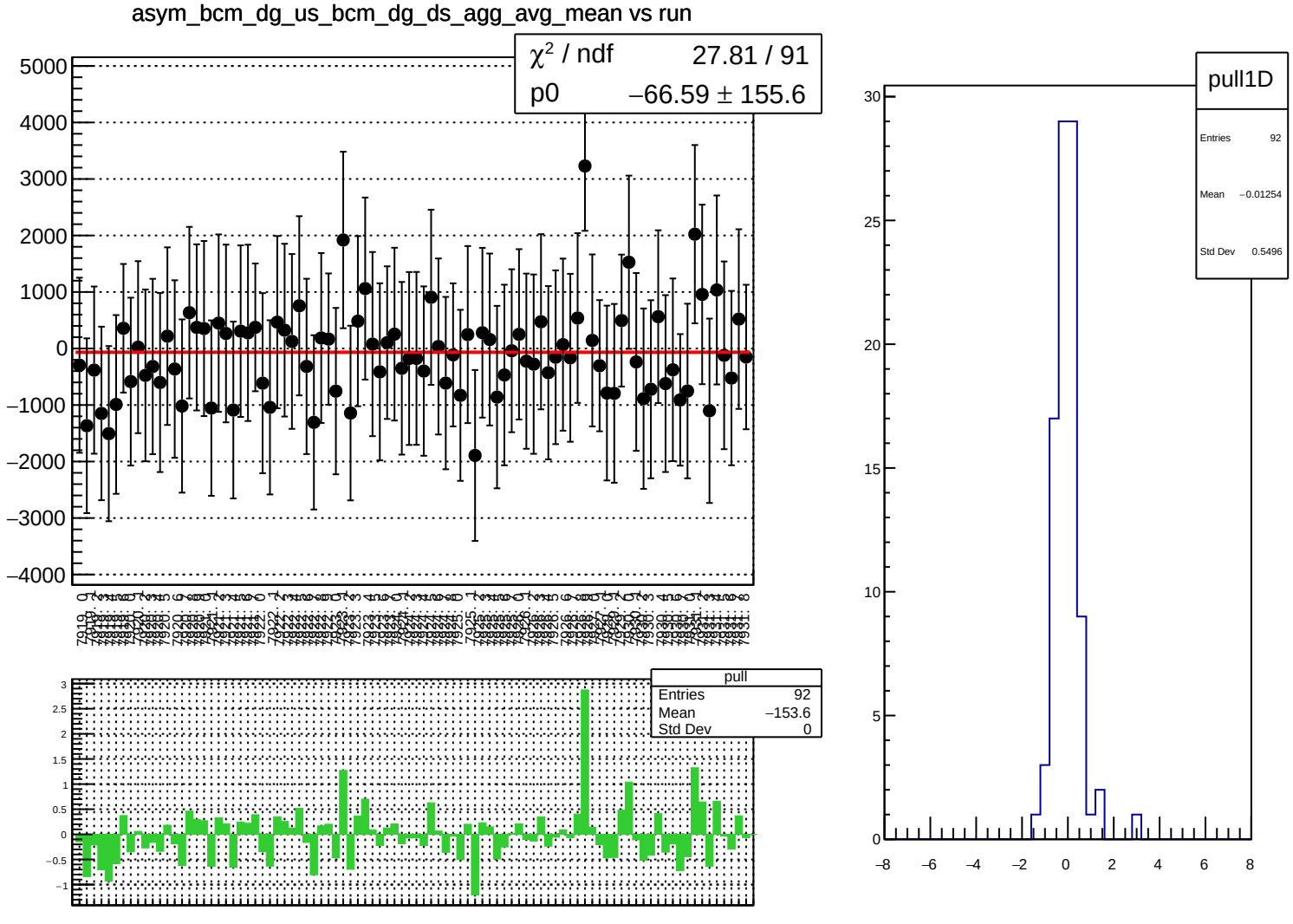

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1071 / 91
p0 22.02 ± 0.0165
24
23.5
23
22.5
22
21.5
21
20.5

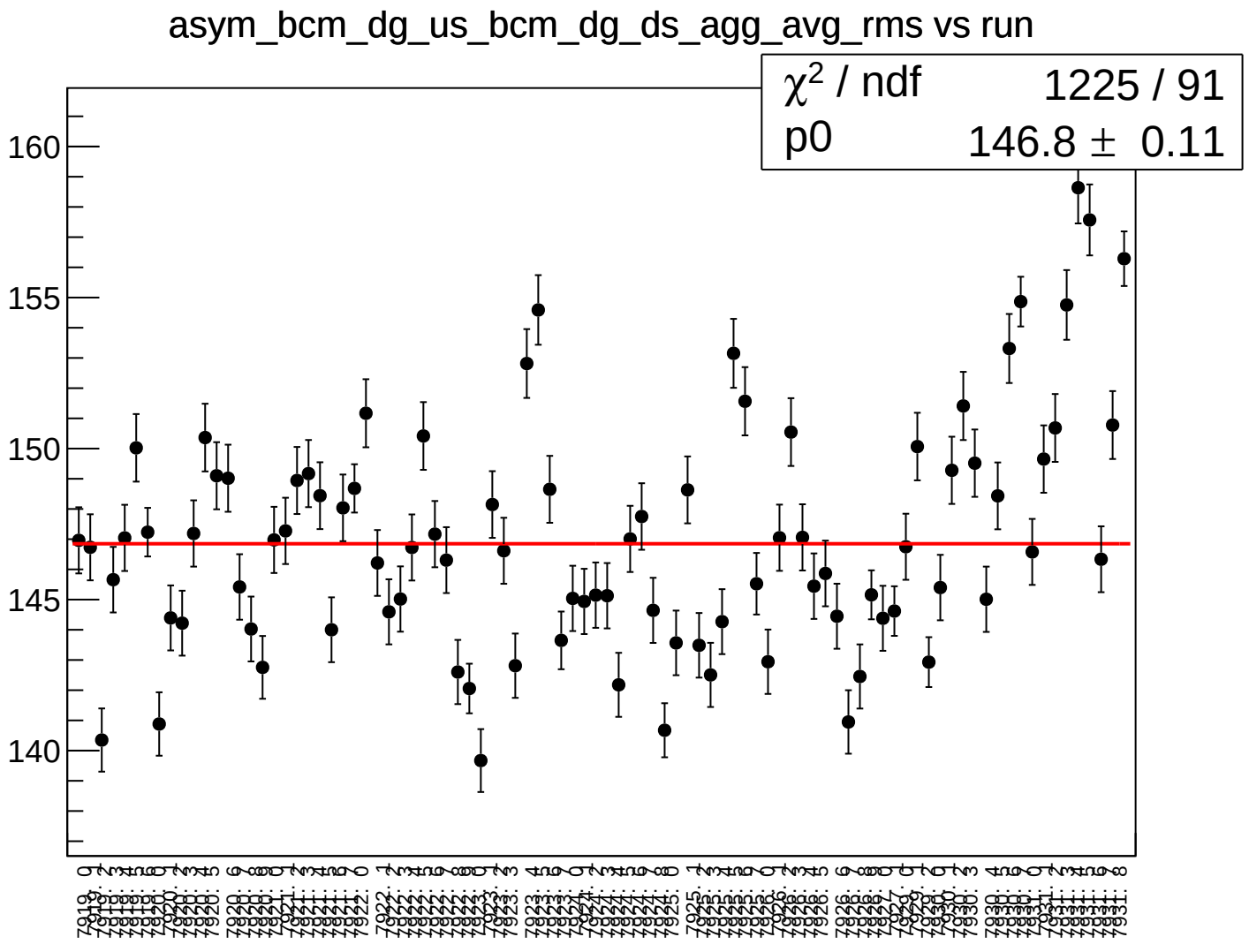

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 23.91 / 91
p0 −69.95 ± 154.9
pull
Entries 92
Mean −176.4
Std Dev 0
pull1D
Entries 92
Mean −0.01039
Std Dev 0.5097

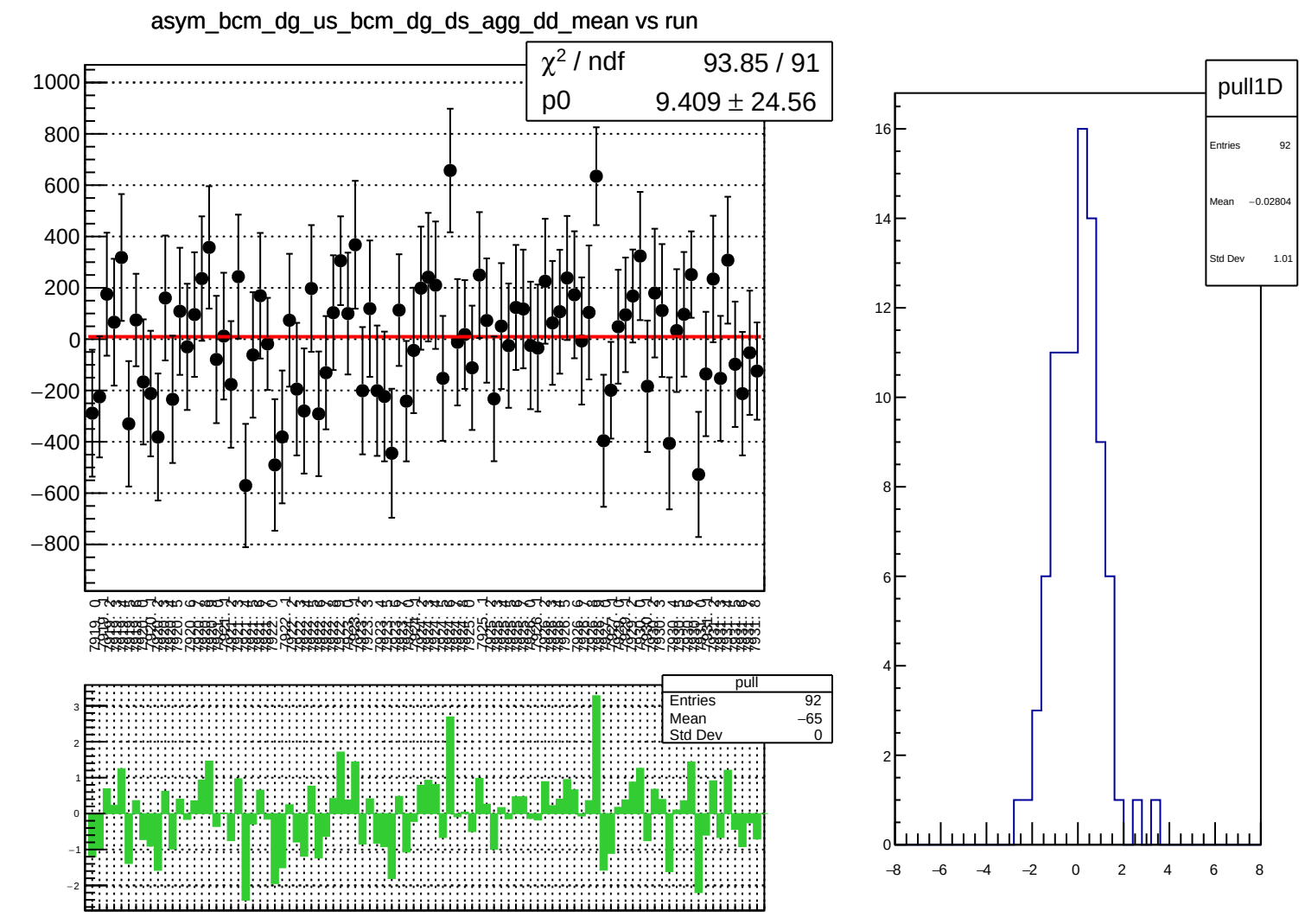

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1288 / 91
p0 146.2 ± 0.1095
160
155
150
145
140

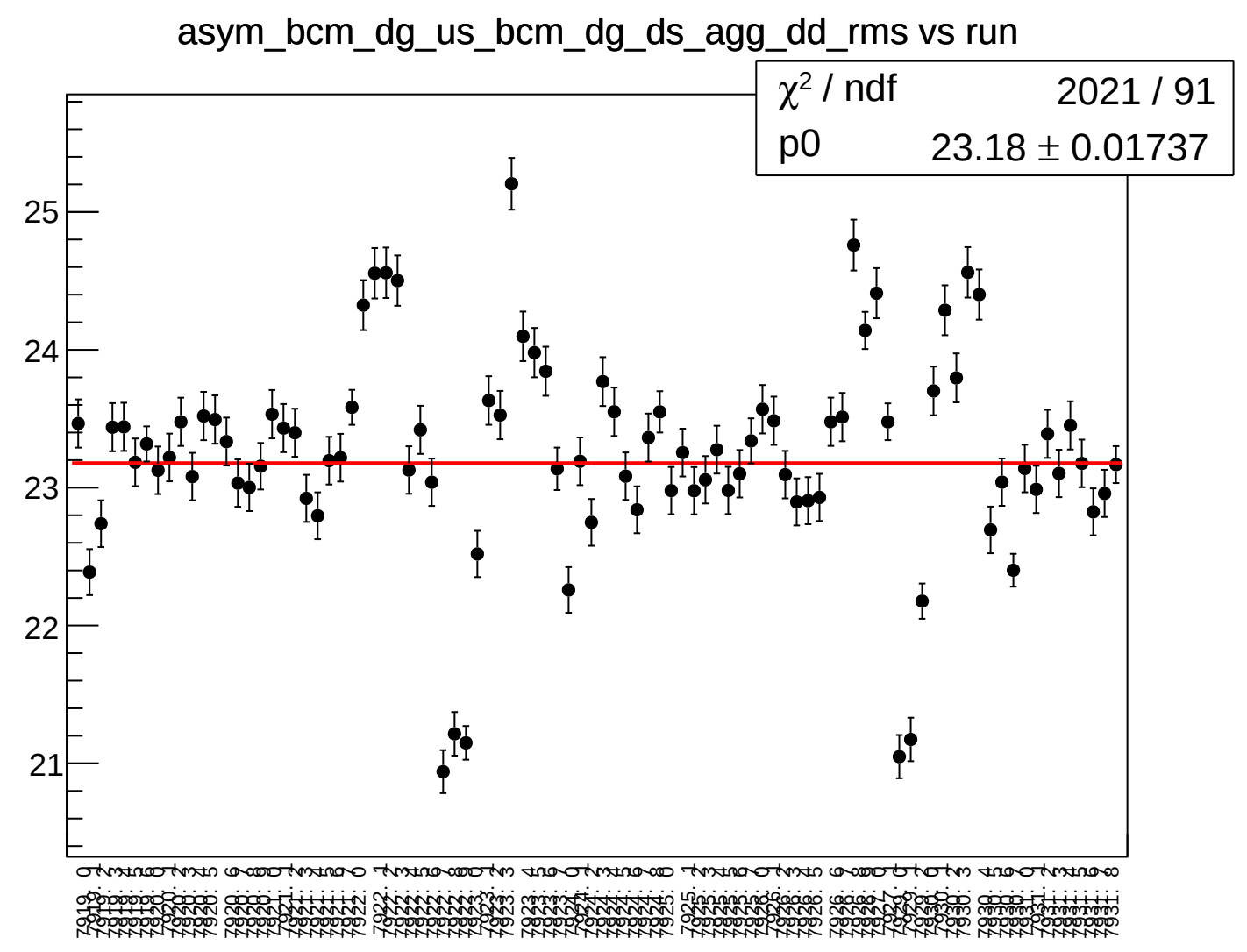

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 98.85 / 91
p0 −2.344 ± 17.66
pull
Entries 92
Mean −260.6
Std Dev 0
pull1D
Entries 92
Mean 0.00849
Std Dev 1.037

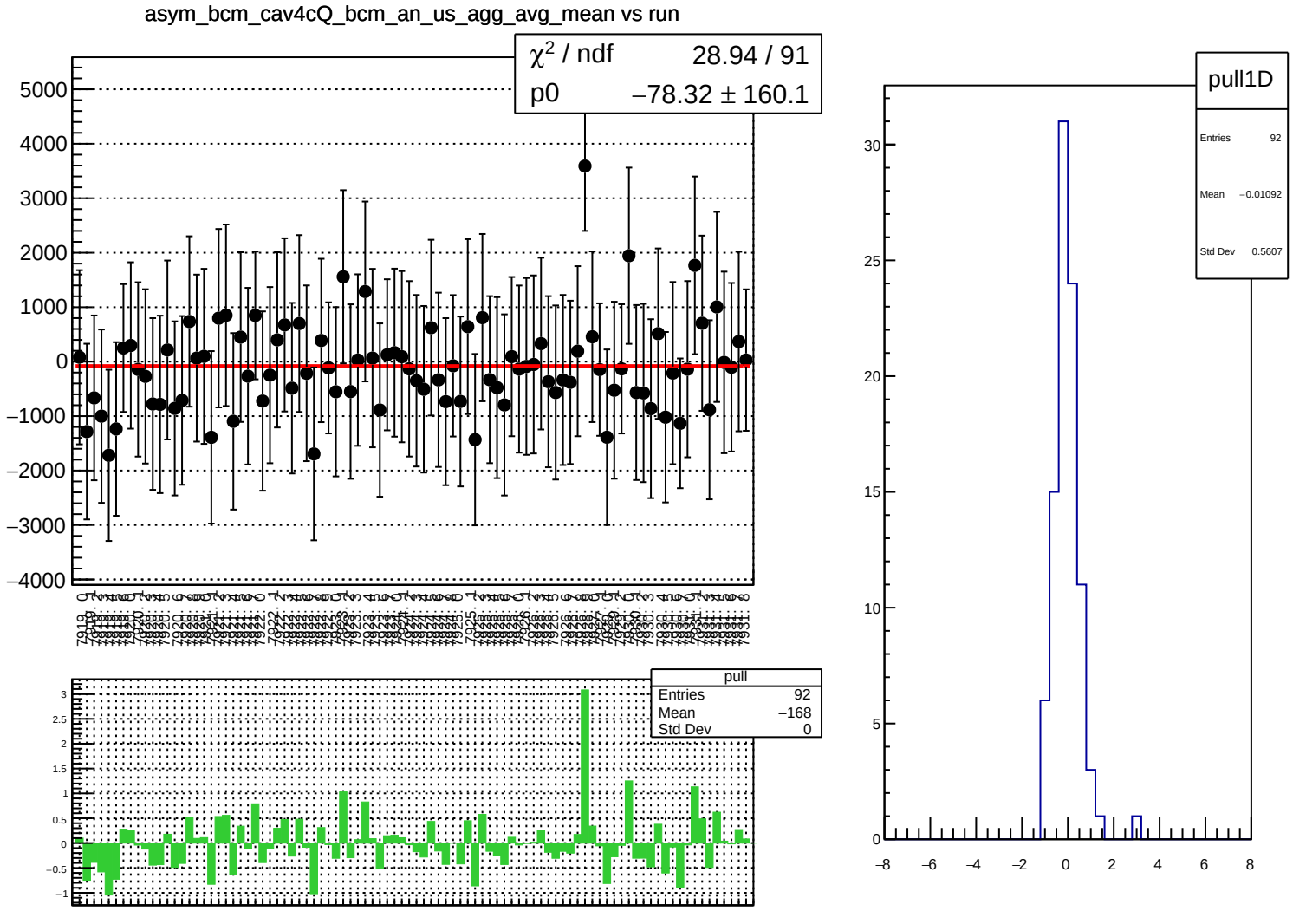

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 3095 / 91
p0 16.66 ± 0.01249
19
18.5
18
17.5
17
16.5
16
15.5
15

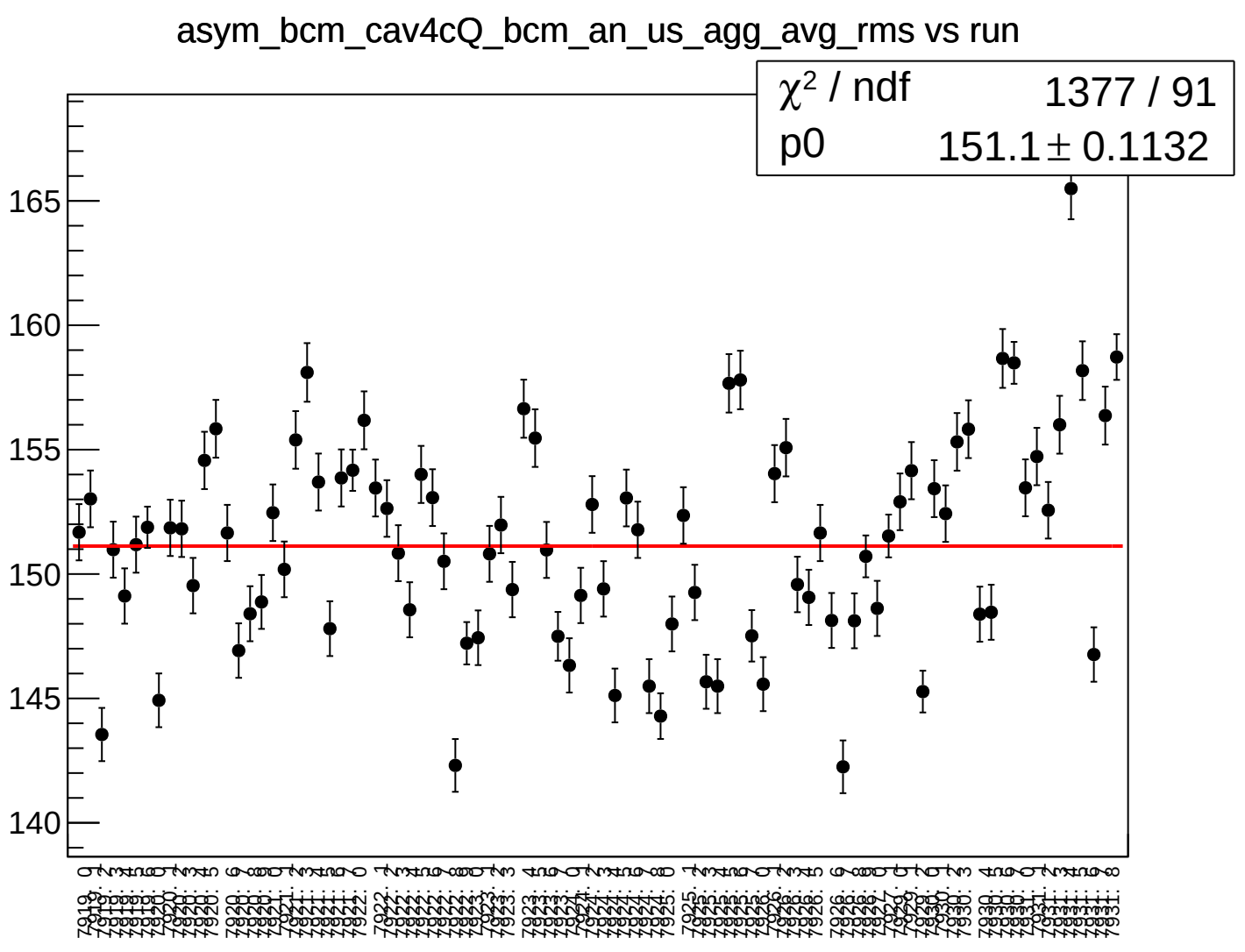

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 27.81 / 91
p0 −66.59 ± 155.6
pull
Entries 92
Mean −153.6
Std Dev 0
pull1D
Entries 92
Mean −0.01254
Std Dev 0.5496

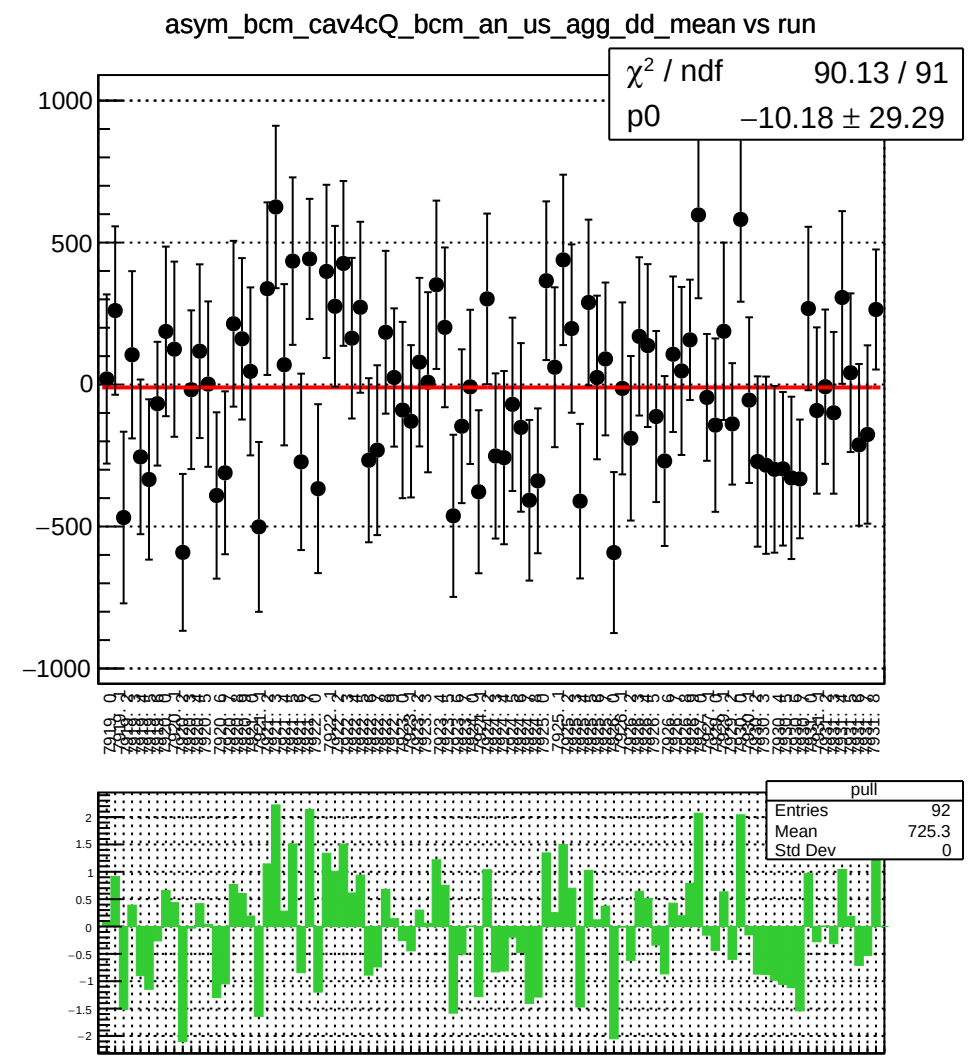

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 1225 / 91
p0 146.8 ± 0.11
160
155
150
145
140

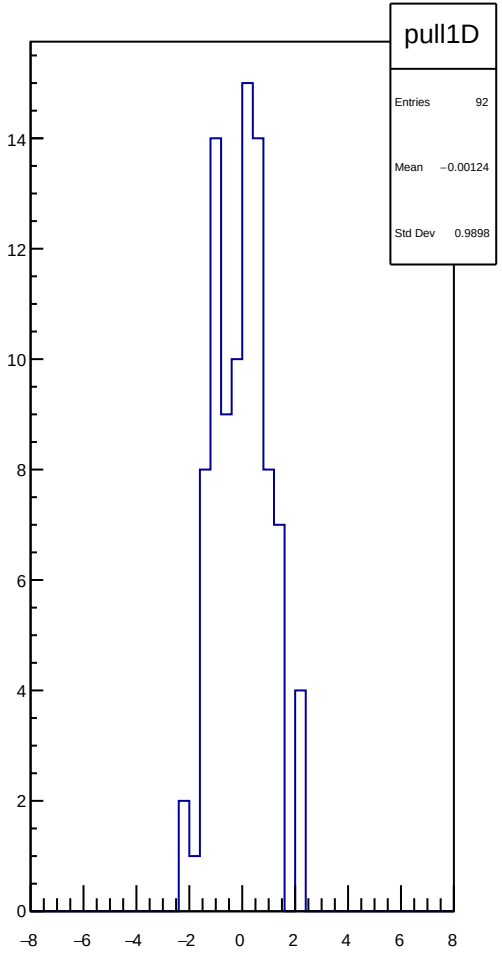

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 93.85 / 91
p0 9.409 ± 24.56
pull
Entries 92
Mean −65
Std Dev 0
pull1D
Entries 92
Mean −0.02804
Std Dev 1.01

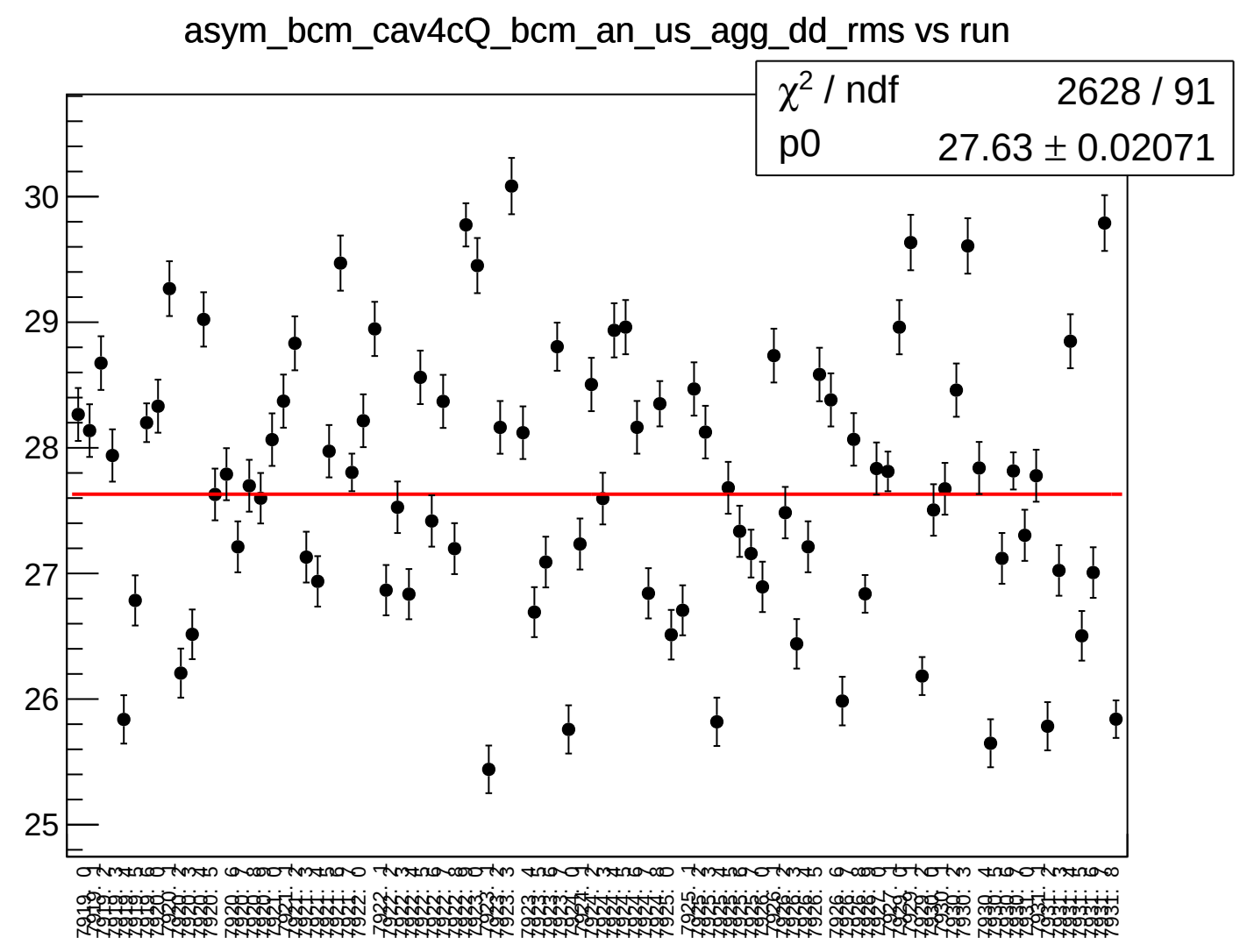

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2021 / 91
p0 23.18 ± 0.01737
25
24
23
22
21

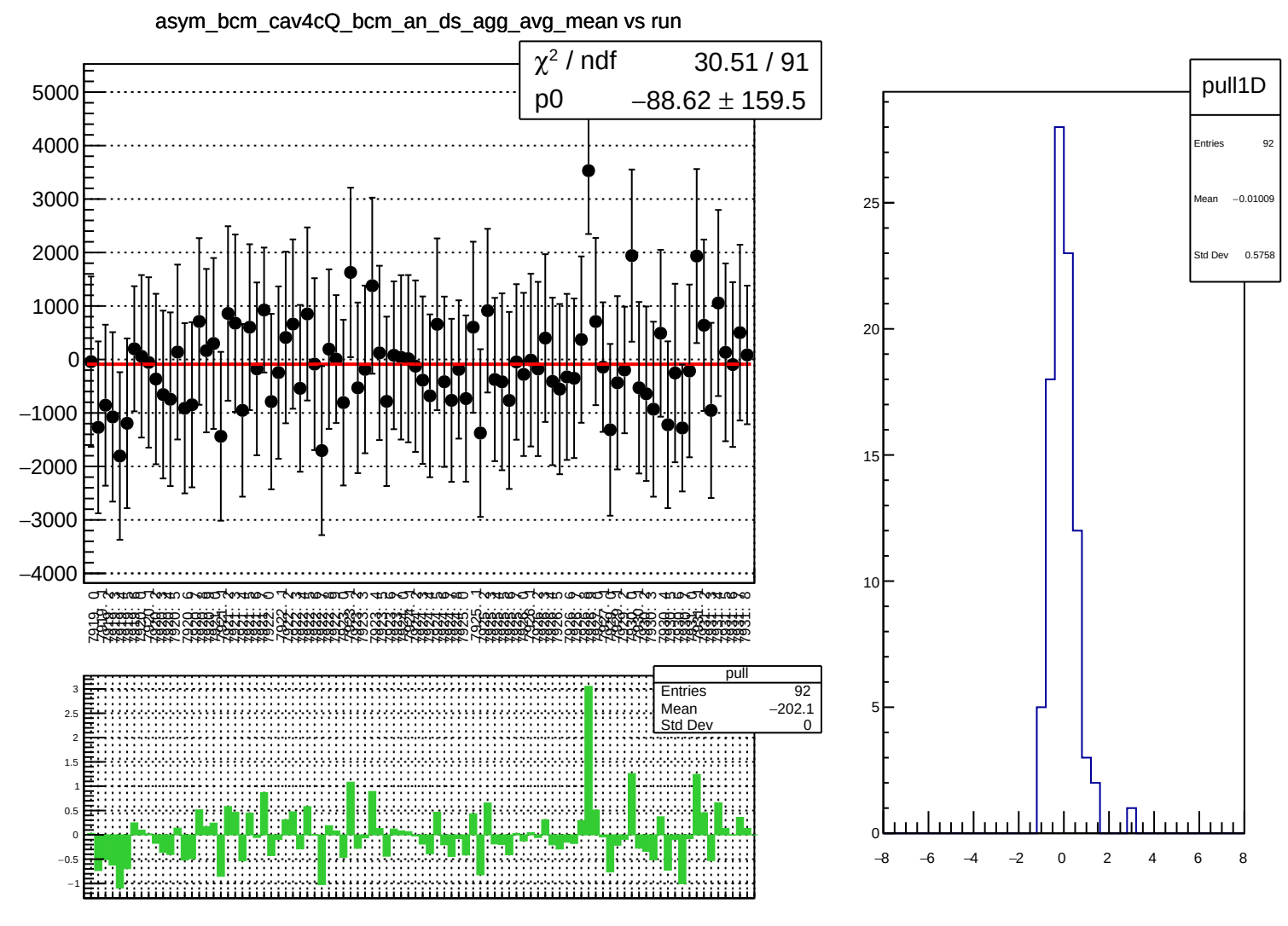

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 28.94 / 91
p0 −78.32 ± 160.1
pull
Entries 92
Mean −168
Std Dev 0
pull1D
Entries 92
Mean −0.01092
Std Dev 0.5607

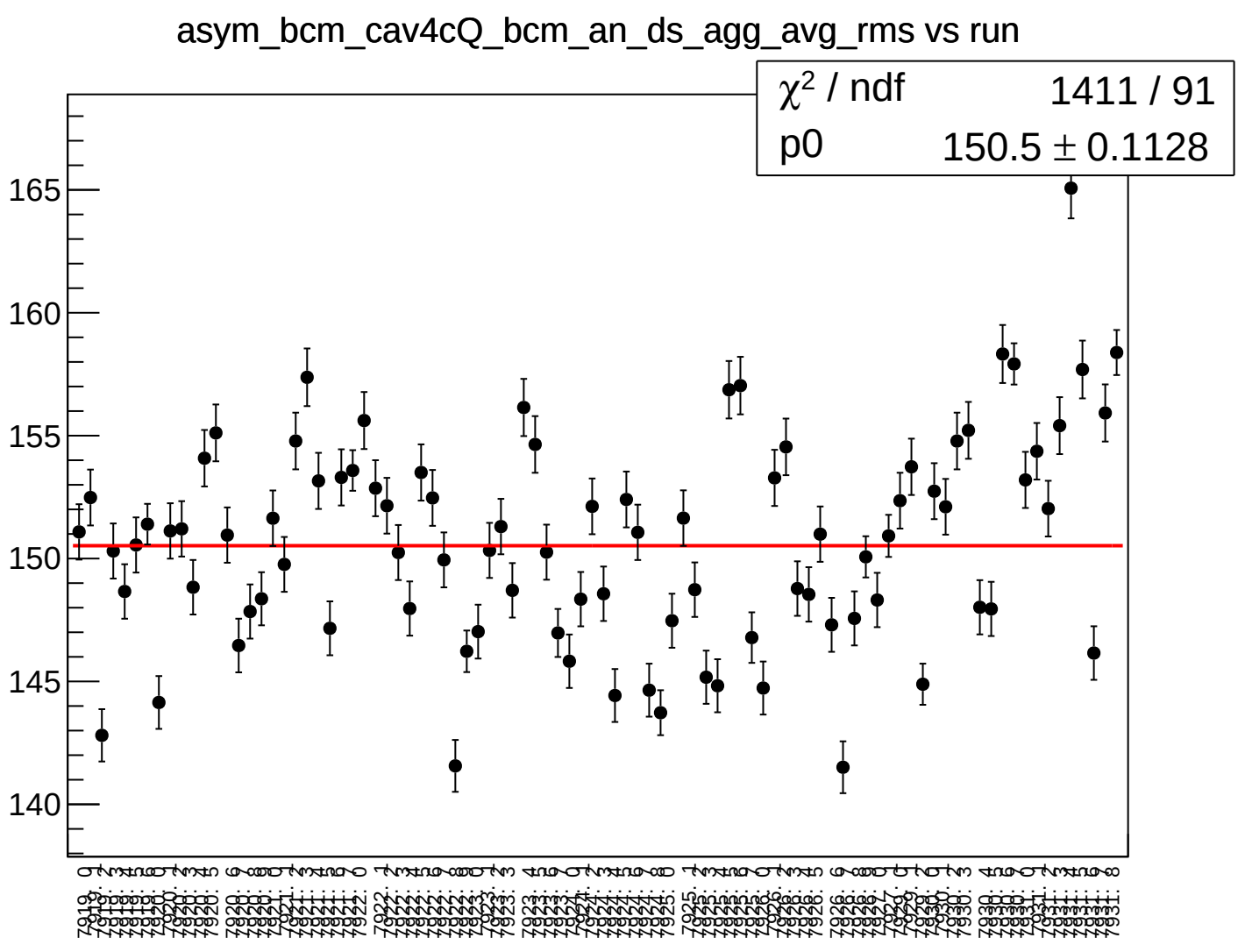

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1377 / 91
p0 151.1 ± 0.1132
165
160
155
150
145
140

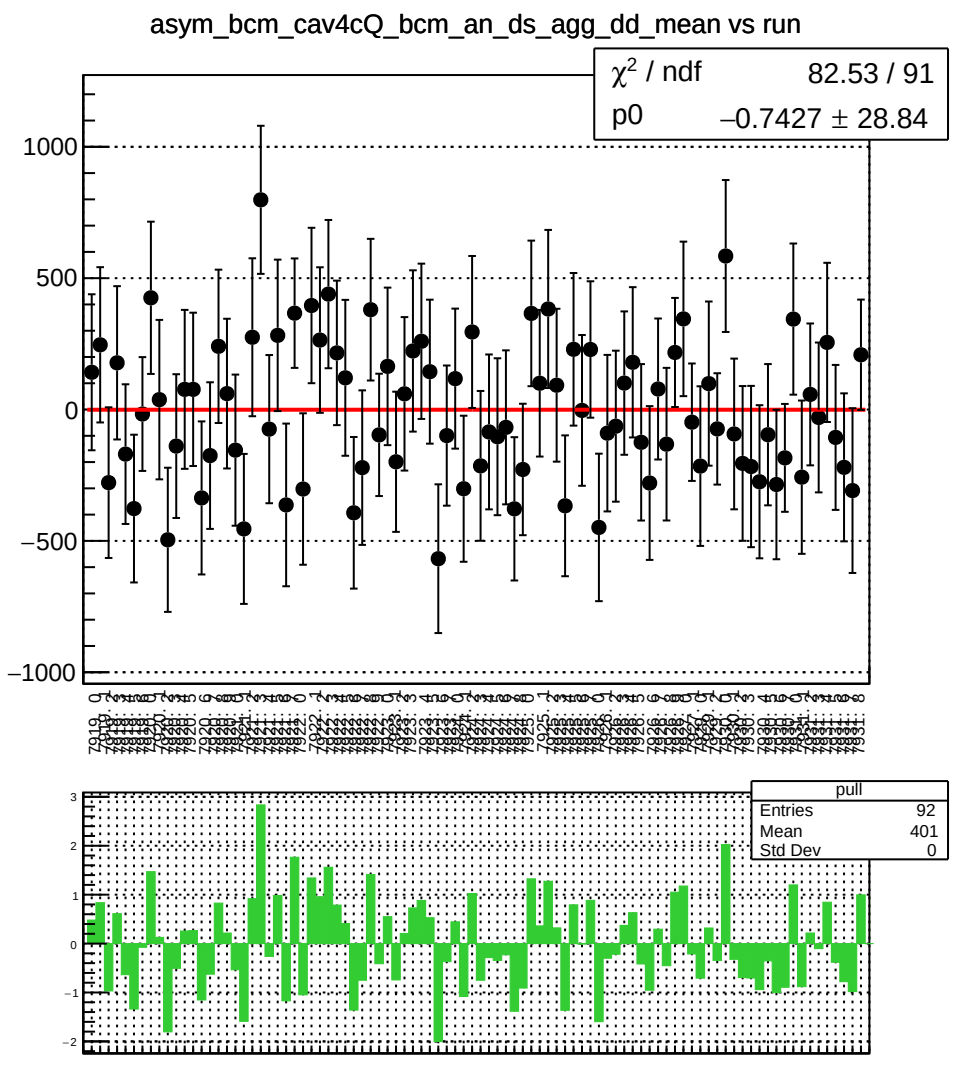

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 90.13 / 91
p0 −10.18 ± 29.29
1000
500
0
−500
−1000
pull
Entries 92
Mean 725.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

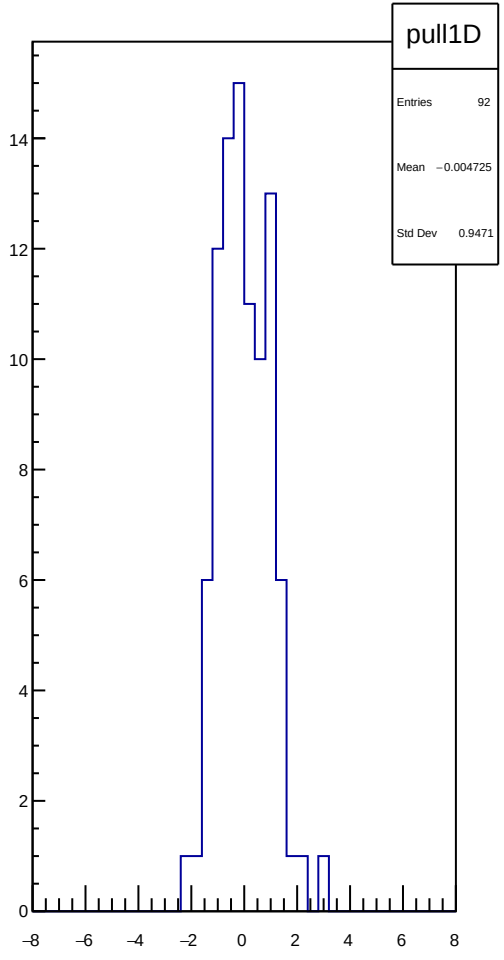

pull1D
Entries 92
Mean −0.00124
Std Dev 0.9898
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

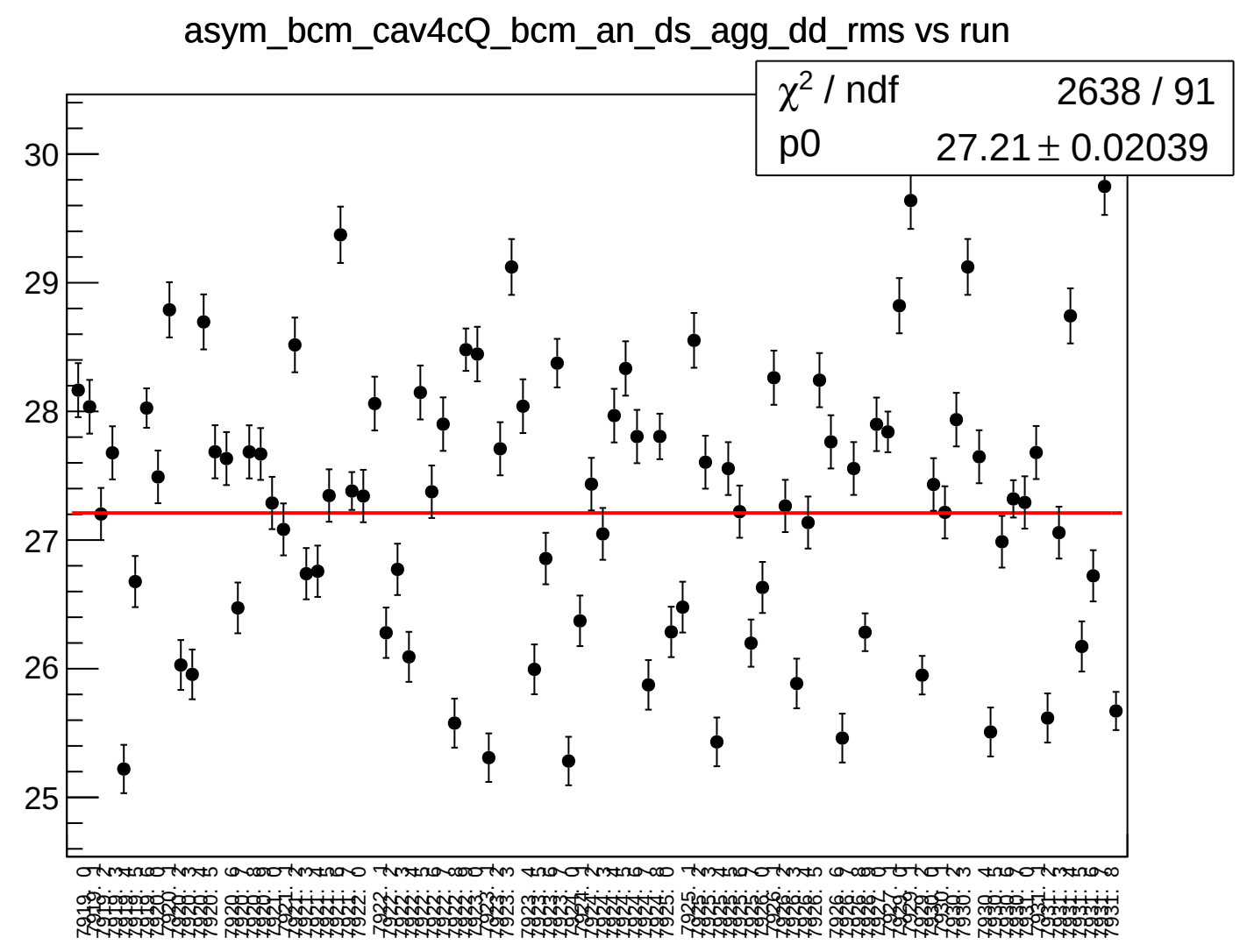

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2628 / 91
p0 27.63 ± 0.02071
30
29
28
27
26
25

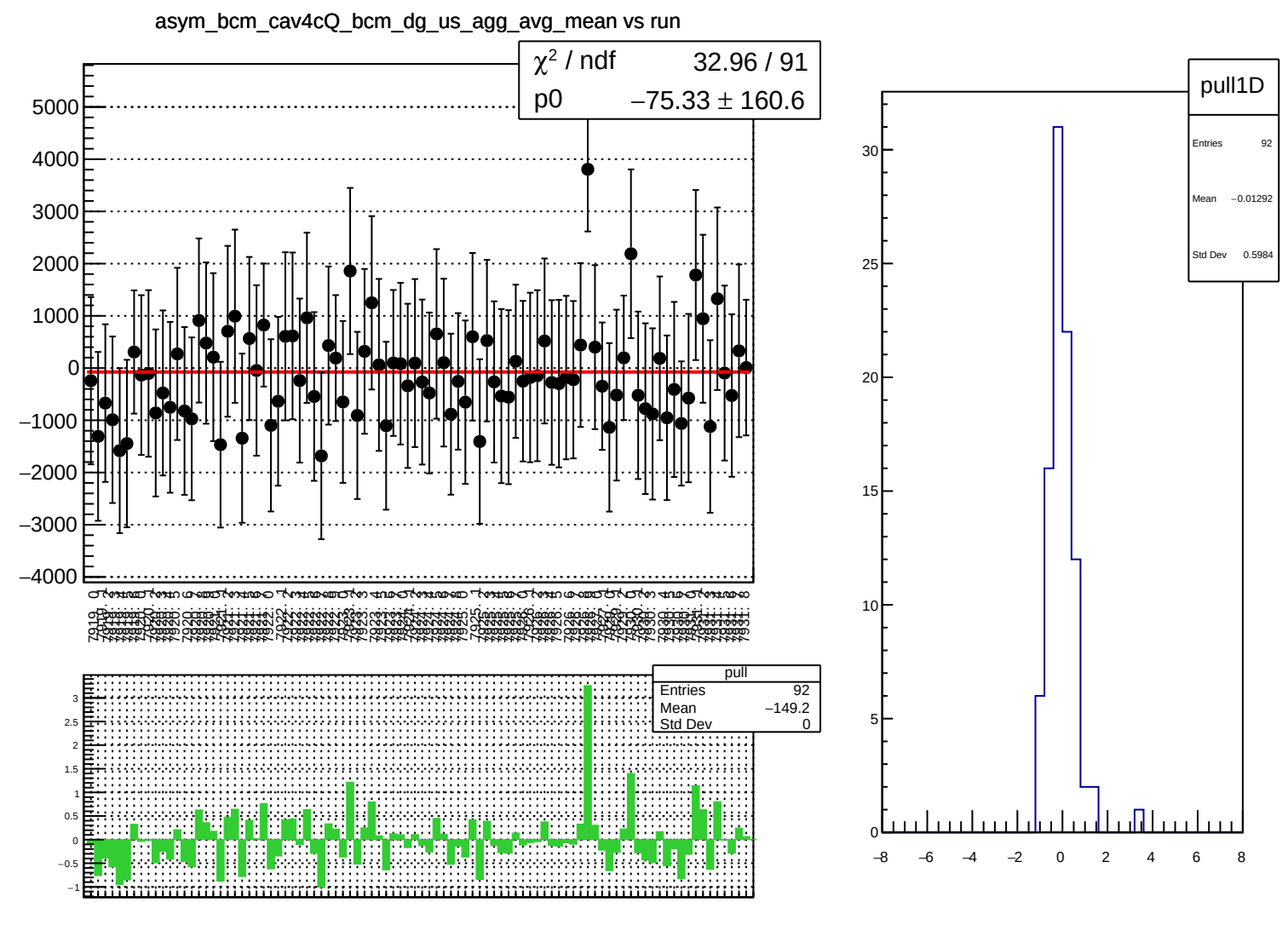

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 30.51 / 91
p0 −88.62 ± 159.5
pull
Entries 92
Mean −202.1
Std Dev 0
pull1D
Entries 92
Mean −0.01009
Std Dev 0.5758

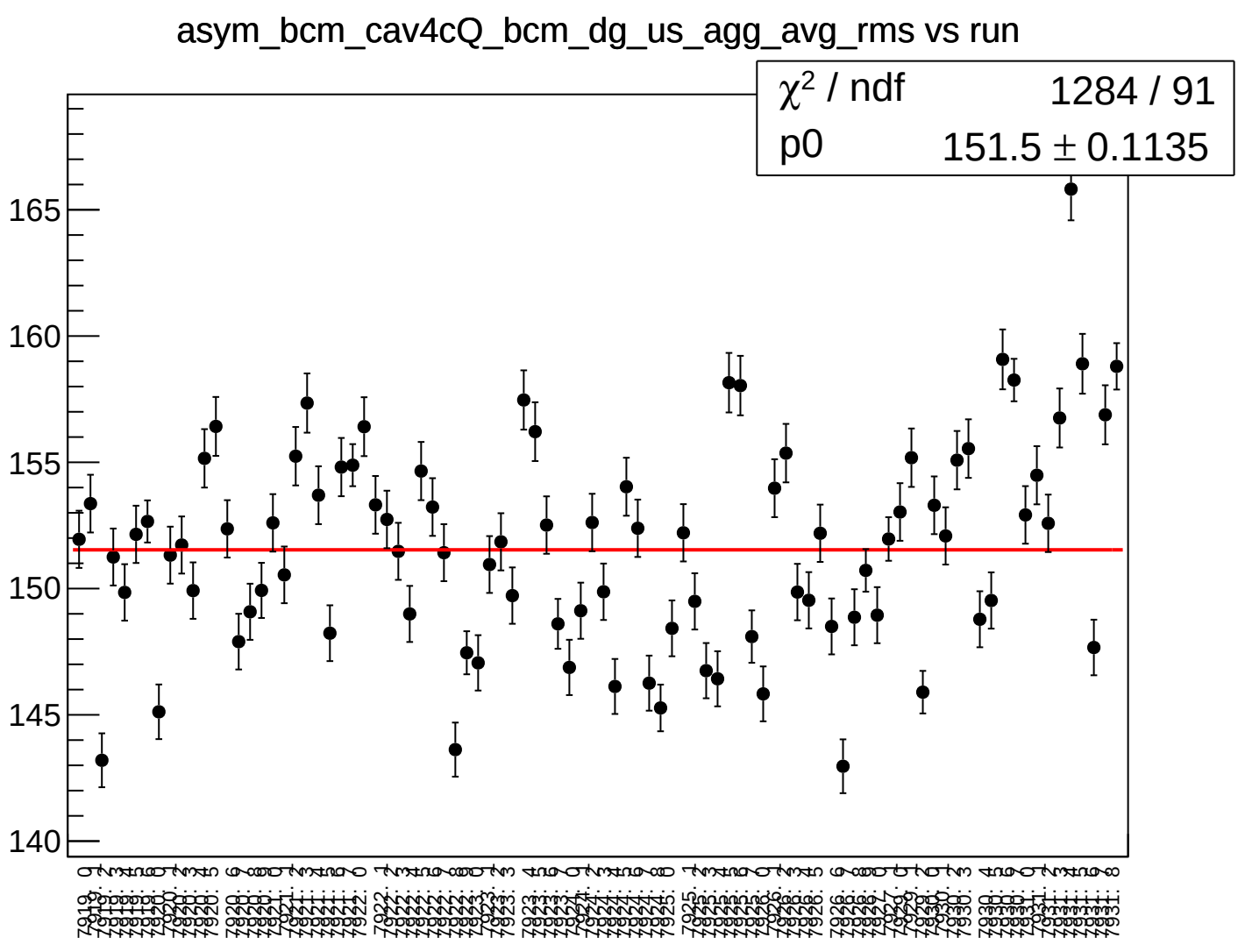

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1411 / 91
p0 150.5 ± 0.1128
165
160
155
150
145
140

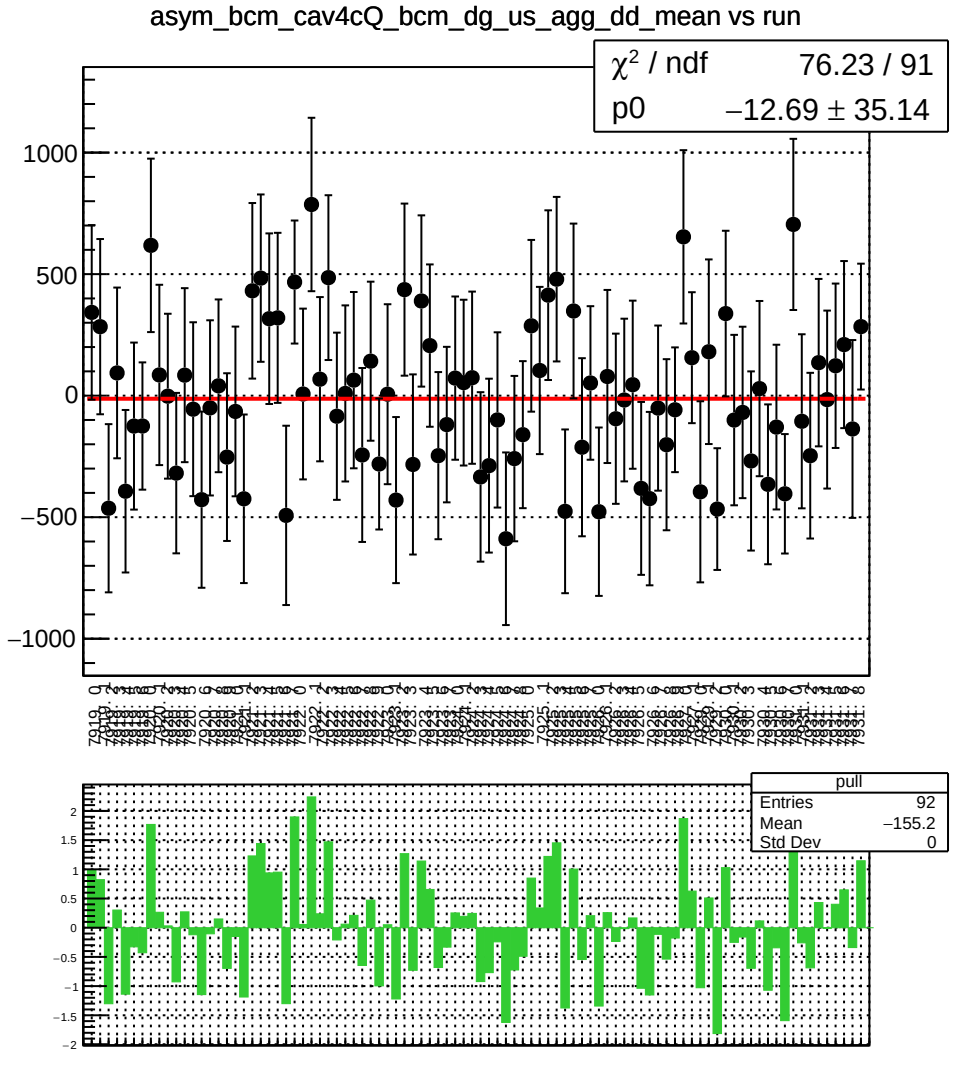

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 82.53 / 91
p0 −0.7427 ± 28.84
1000
500
0
−500
−1000
pull
Entries 92
Mean 401
Std Dev 0
3
2
1
0
−1
−2

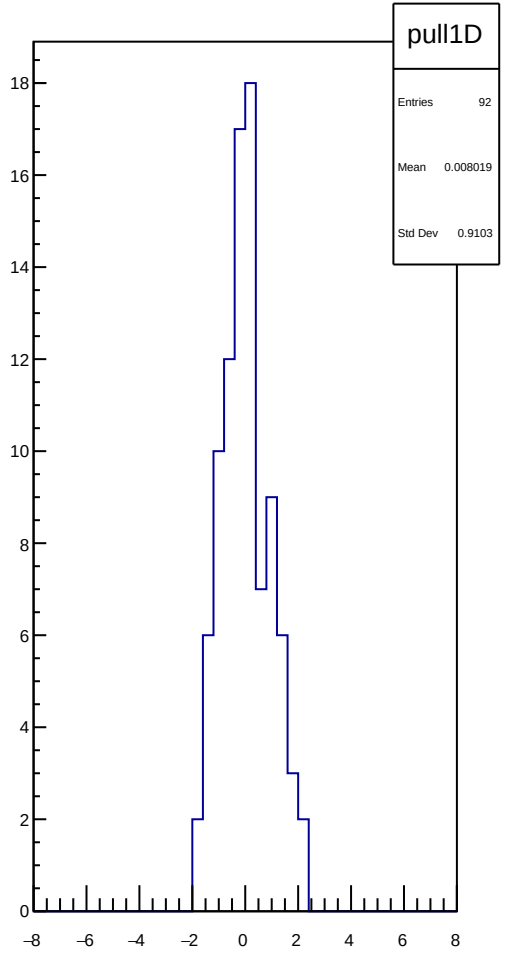

pull1D
Entries 92
Mean −0.004725
Std Dev 0.9471
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

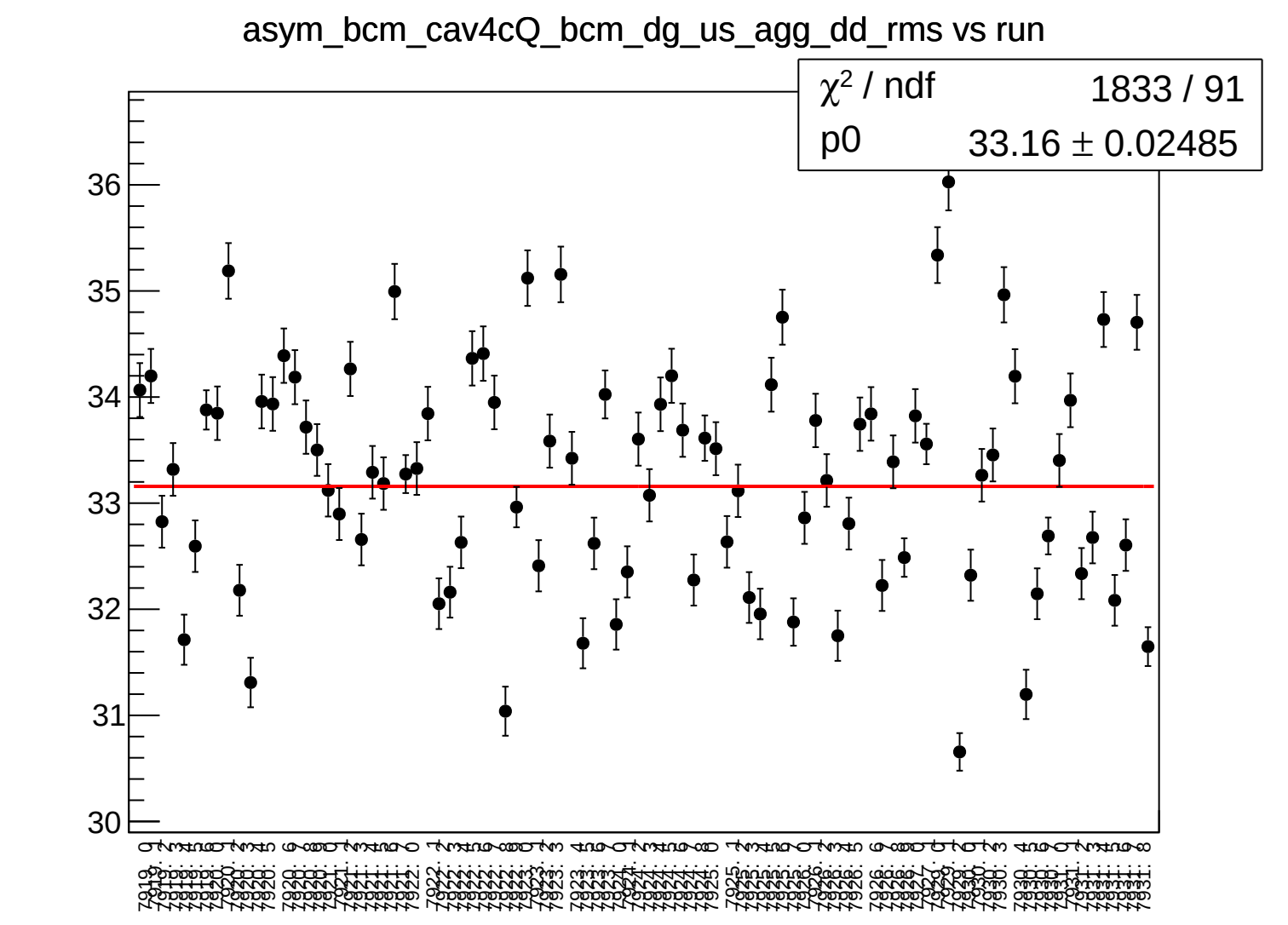

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2638 / 91
p0 27.21 ± 0.02039
30
29
28
27
26
25

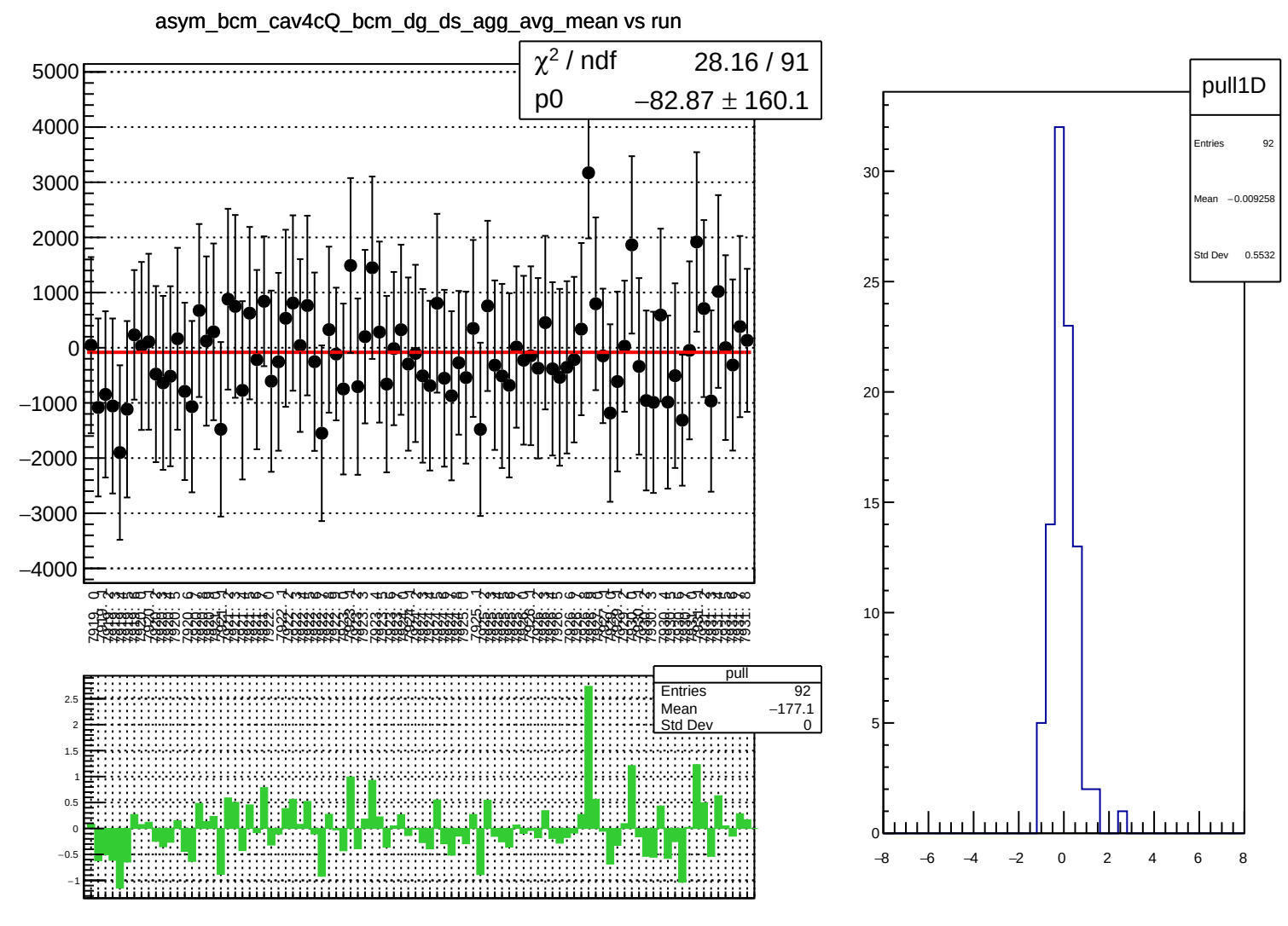

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 32.96 / 91
p0 −75.33 ± 160.6
pull
Entries 92
Mean −149.2
Std Dev 0
pull1D
Entries 92
Mean −0.01292
Std Dev 0.5984

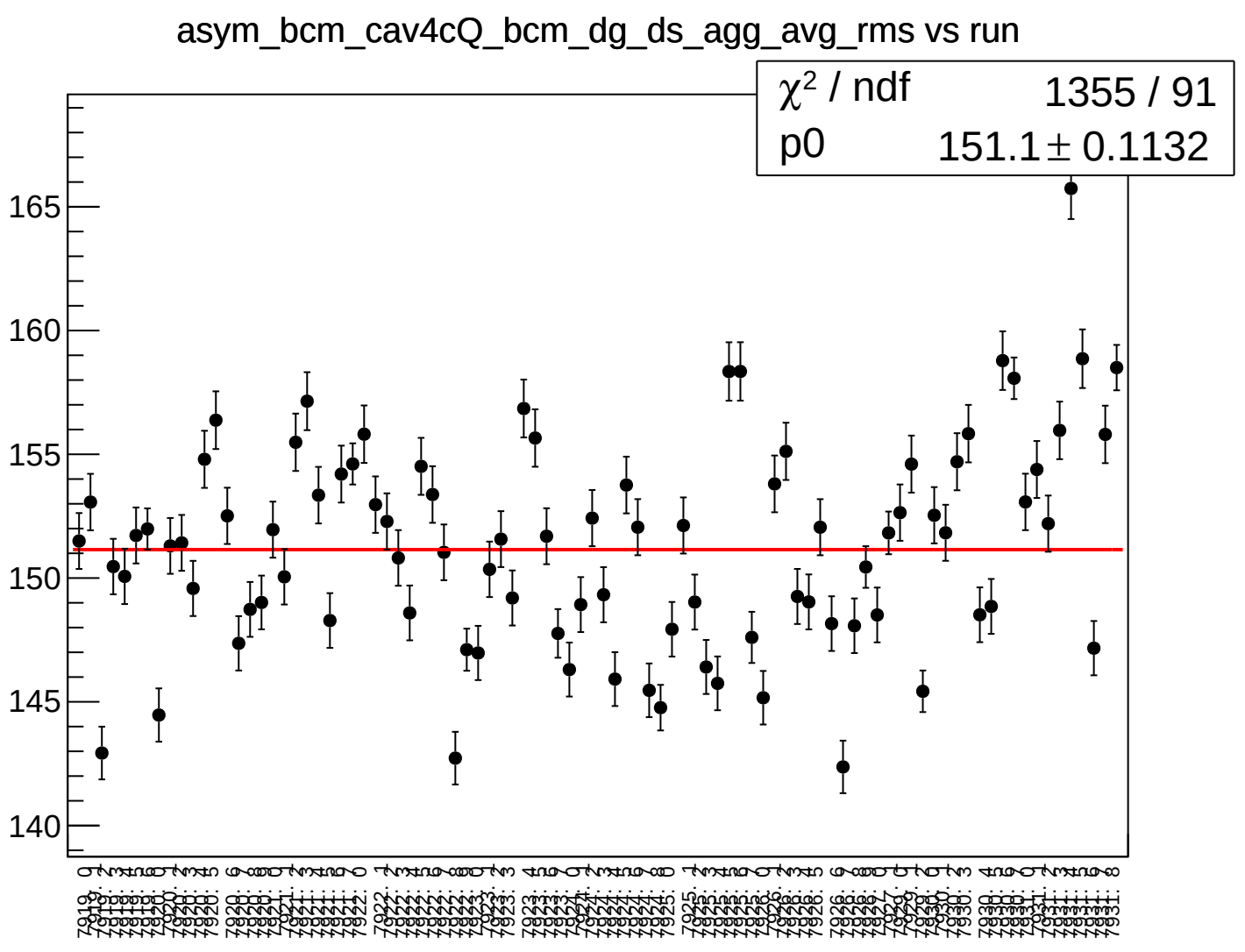

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 1284 / 91
p0 151.5 ± 0.1135
165
160
155
150
145
140

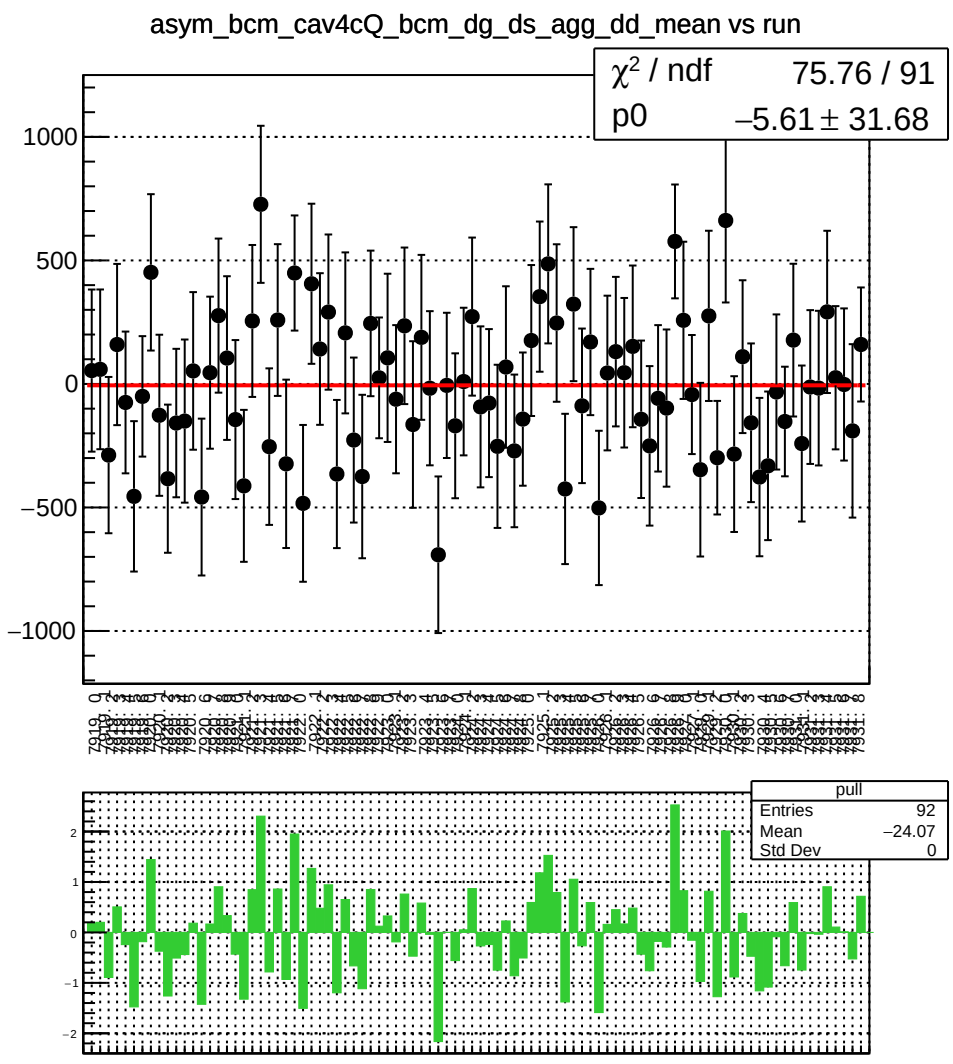

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 76.23 / 91
p0 −12.69 ± 35.14
1000
500
0
−500
−1000
pull
Entries 92
Mean −155.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

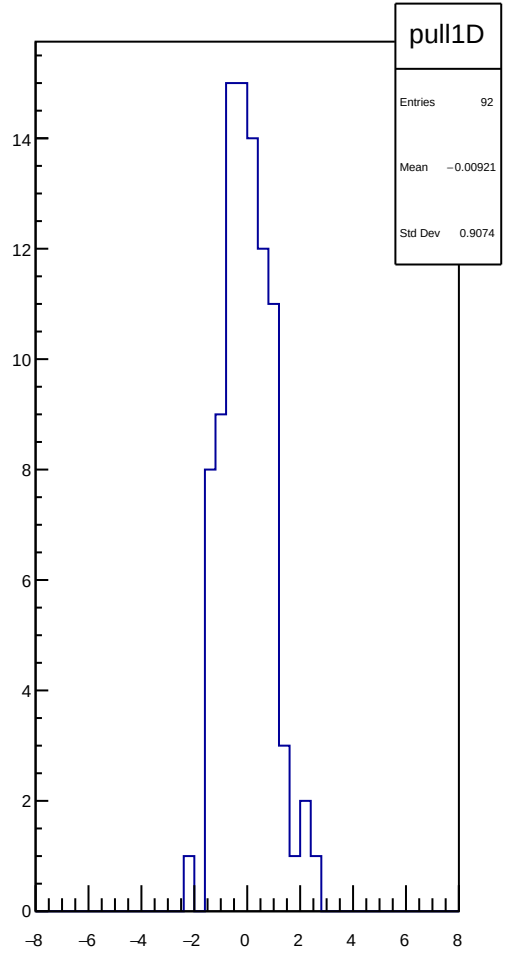

pull1D
Entries 92
Mean 0.008019
Std Dev 0.9103
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

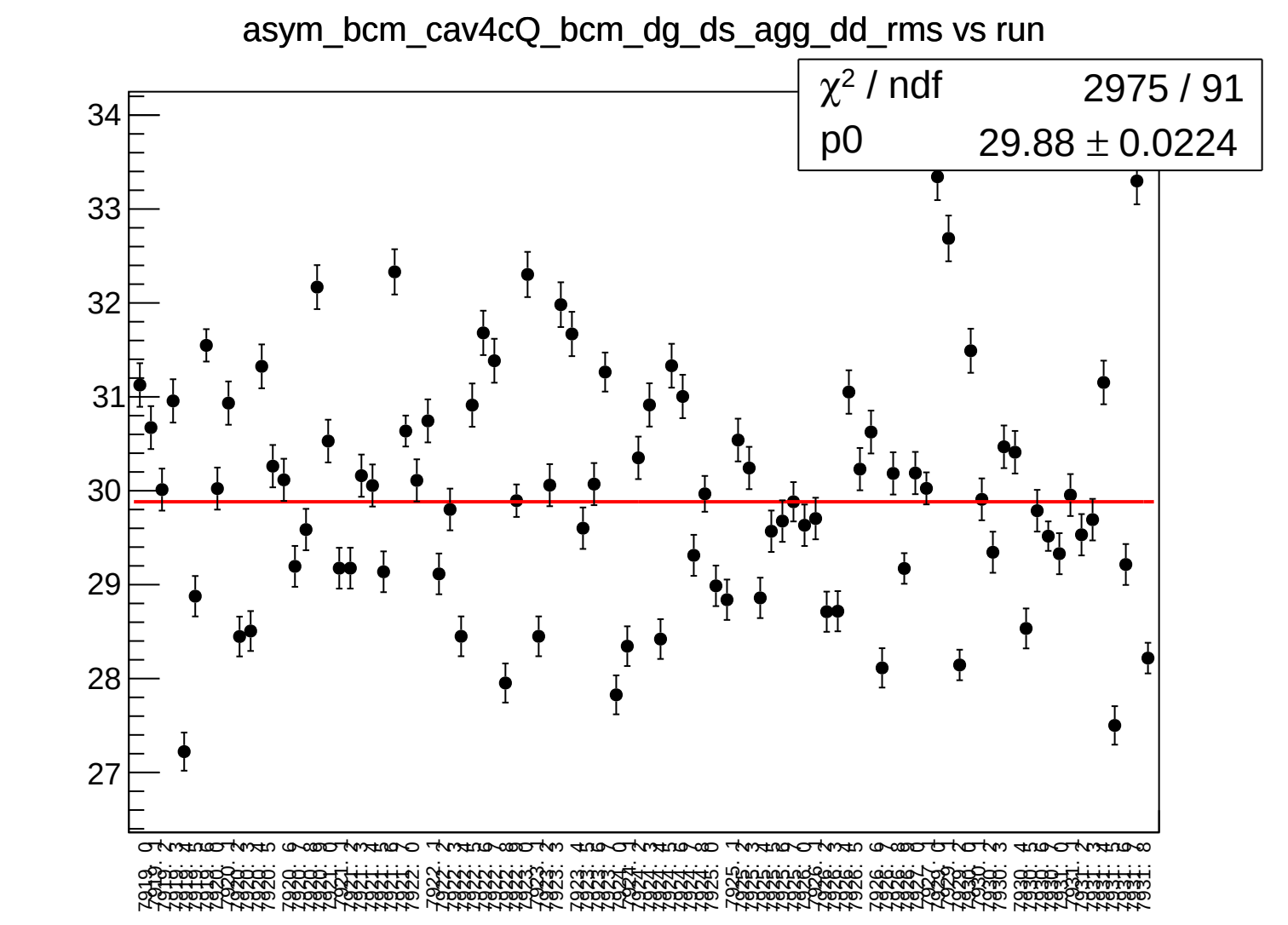

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1833 / 91
p0 33.16 ± 0.02485
36
35
34
33
32
31
30

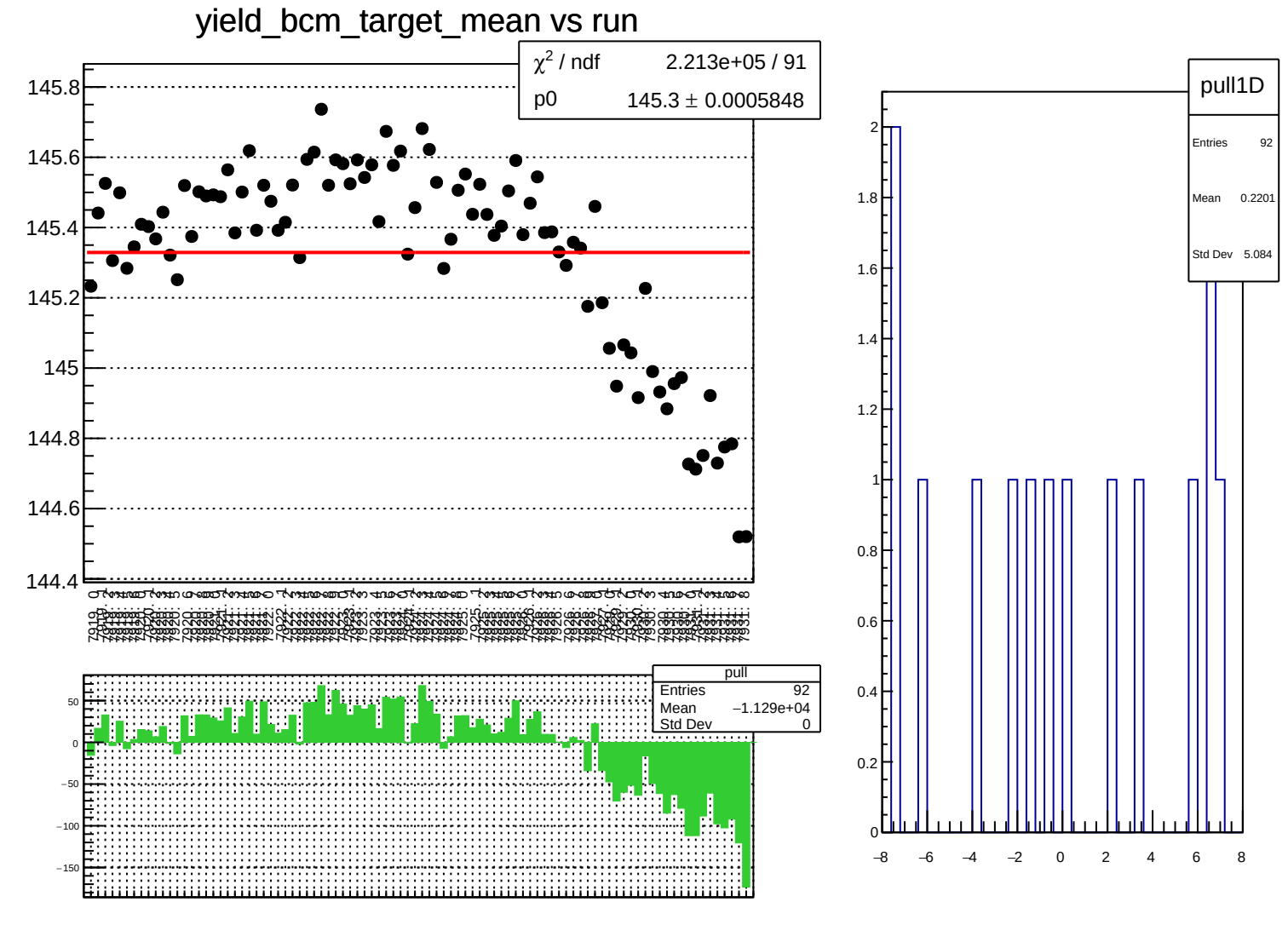

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 28.16 / 91
p0 −82.87 ± 160.1
pull
Entries 92
Mean −177.1
Std Dev 0
pull1D
Entries 92
Mean −0.009258
Std Dev 0.5532

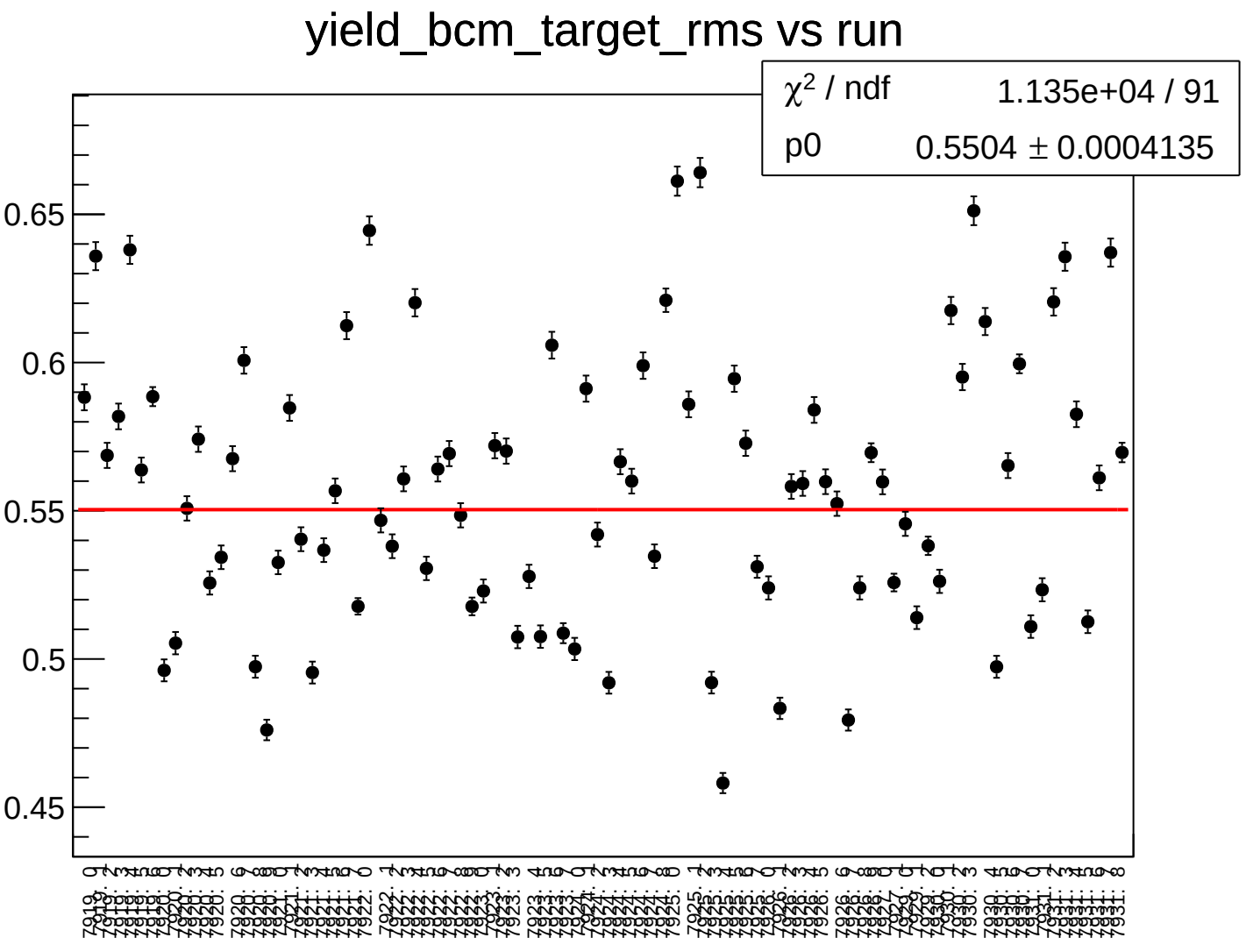

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 1355 / 91
p0 151.1 ± 0.1132
165
160
155
150
145
140

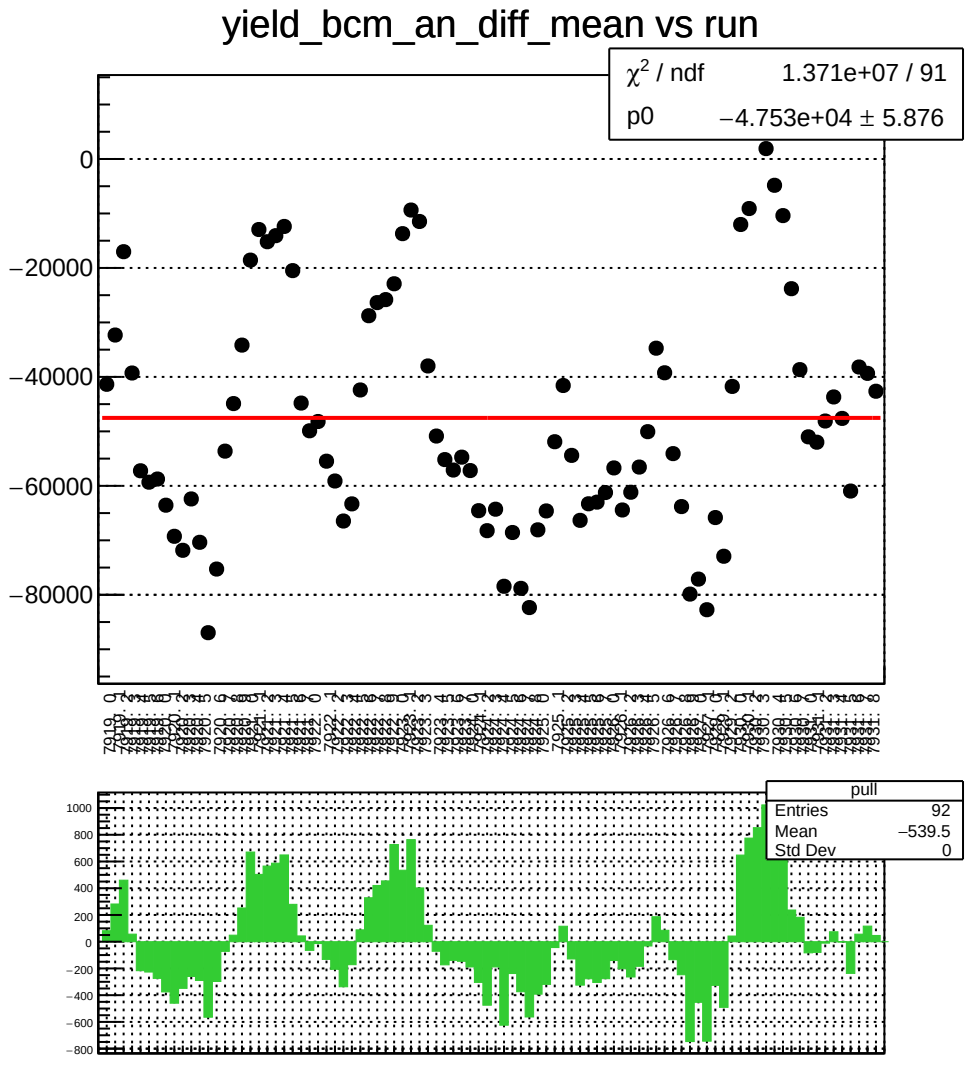

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 75.76 / 91
p0 −5.61 ± 31.68
1000
500
0
−500
−1000
pull
Entries 92
Mean −24.07
Std Dev 0
2
1
0
−1
−2

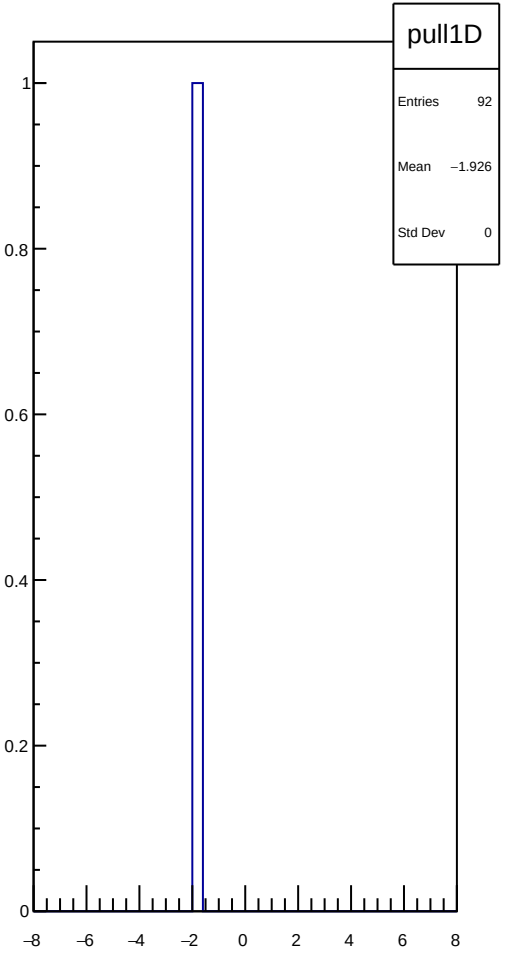

pull1D
Entries 92
Mean −0.00921
Std Dev 0.9074
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

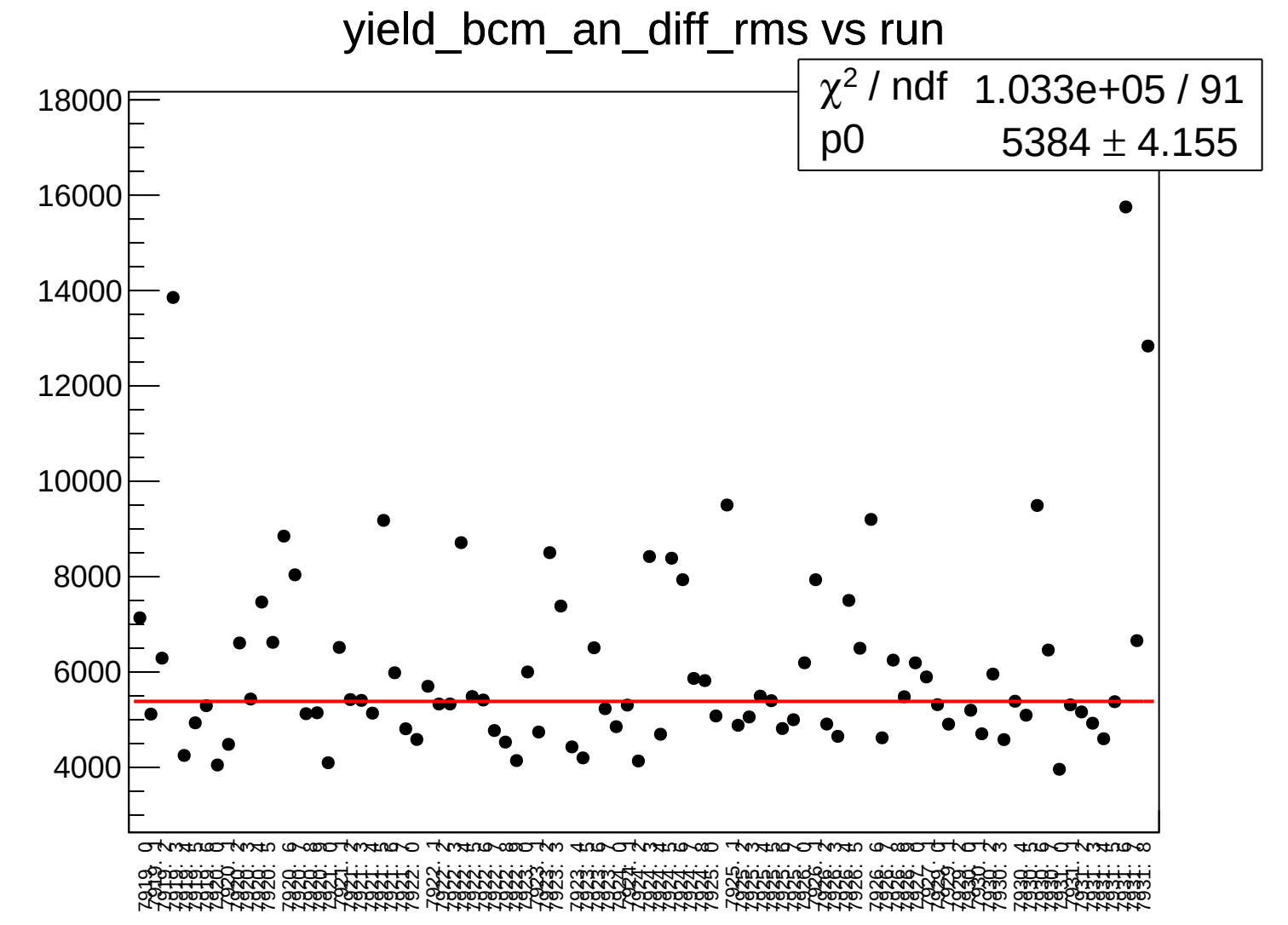

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2975 / 91
p0 29.88 ± 0.0224
34
33
32
31
30
29
28
27

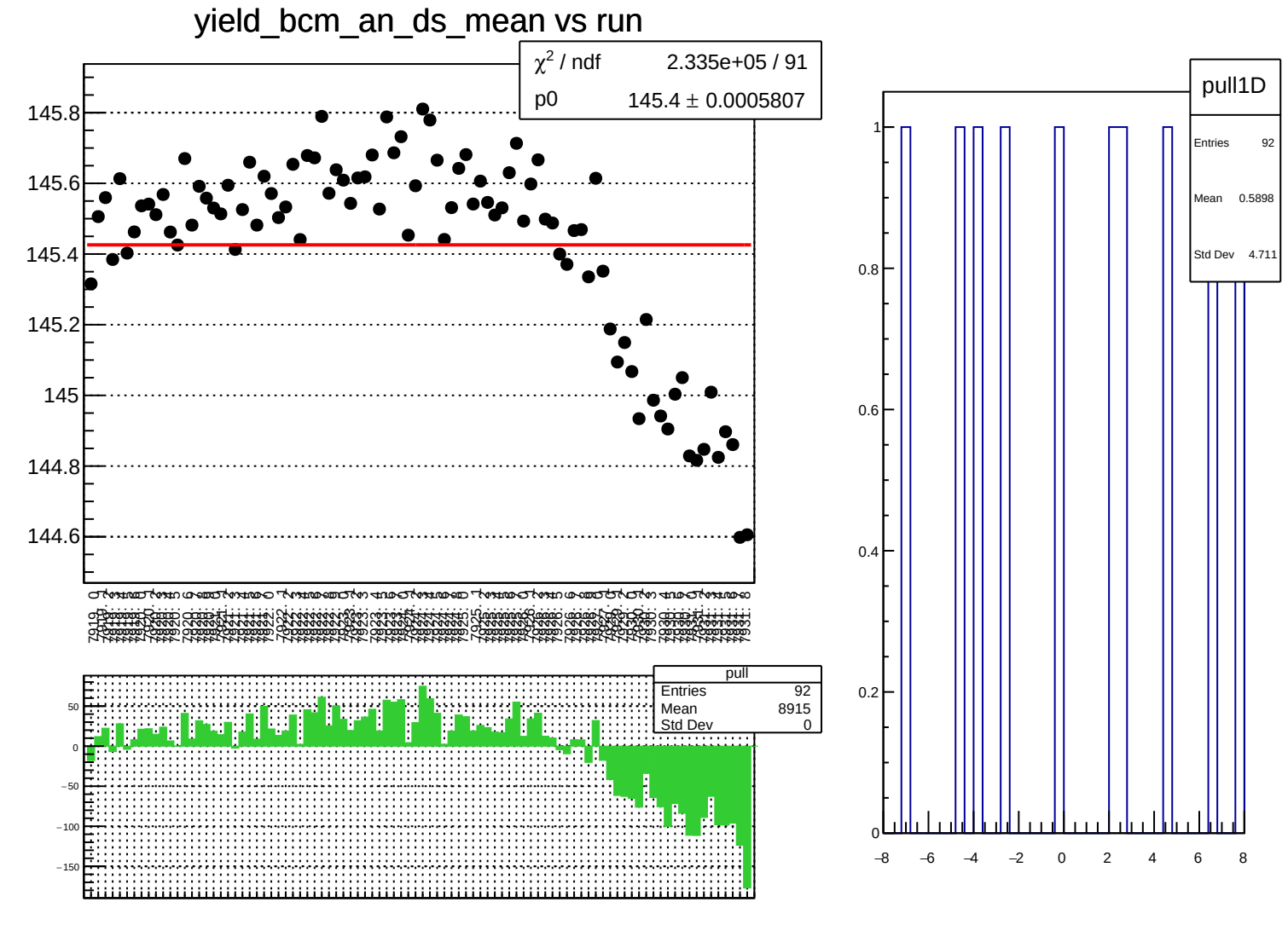

yield_bcm_target_mean vs run
χ² / ndf 2.213e+05 / 91
p0 145.3 ± 0.0005848
145.8
145.6
145.4
145.2
145
144.8
144.6
144.4
pull
Entries 92
Mean −1.129e+04
Std Dev 0
50
0
−50
−100
−150
pull1D
Entries 92
Mean 0.2201
Std Dev 5.084
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

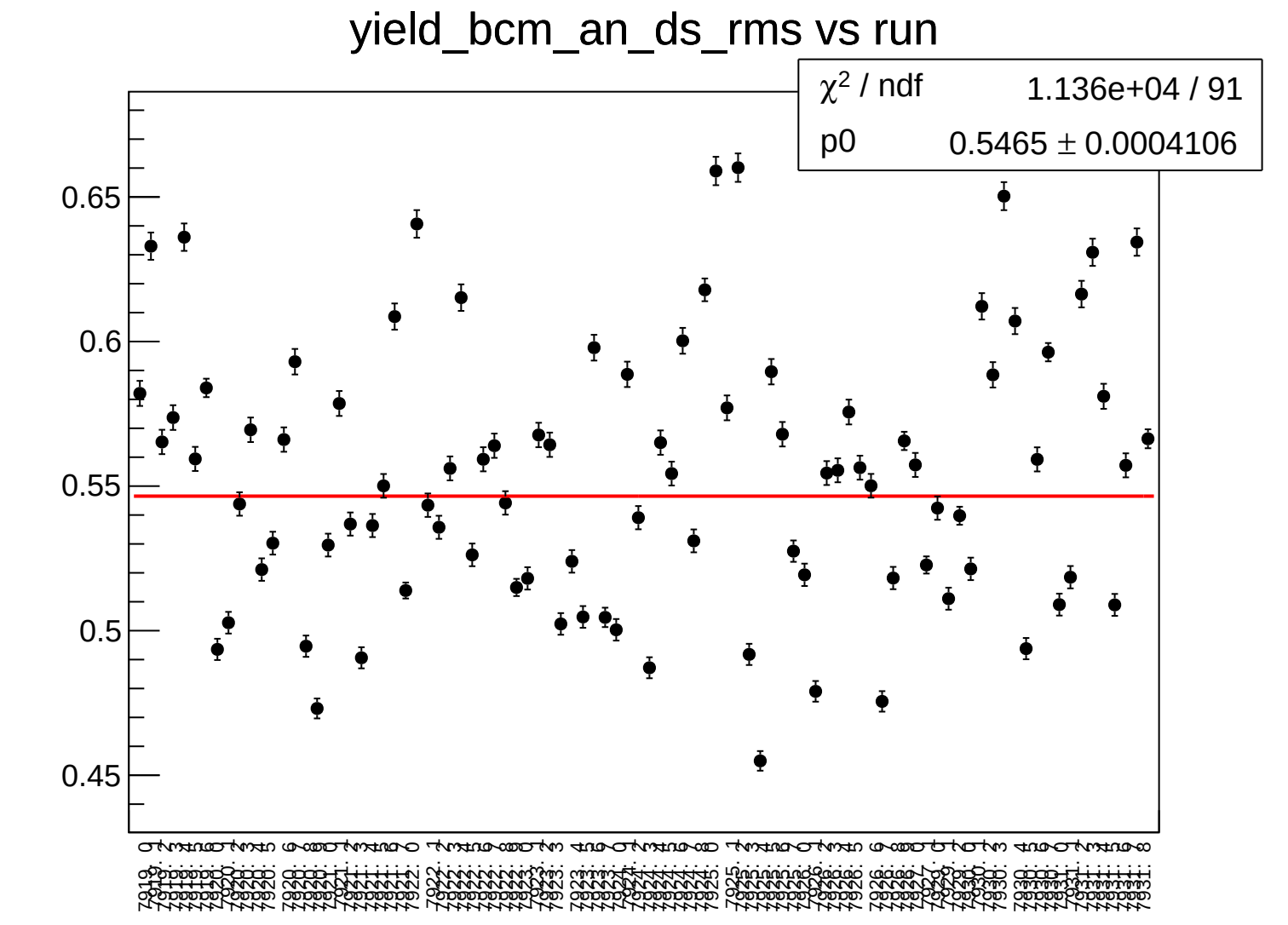

yield_bcm_target_rms vs run
χ² / ndf 1.135e+04 / 91
p0 0.5504 ± 0.0004135
0.65
0.6
0.55
0.5
0.45

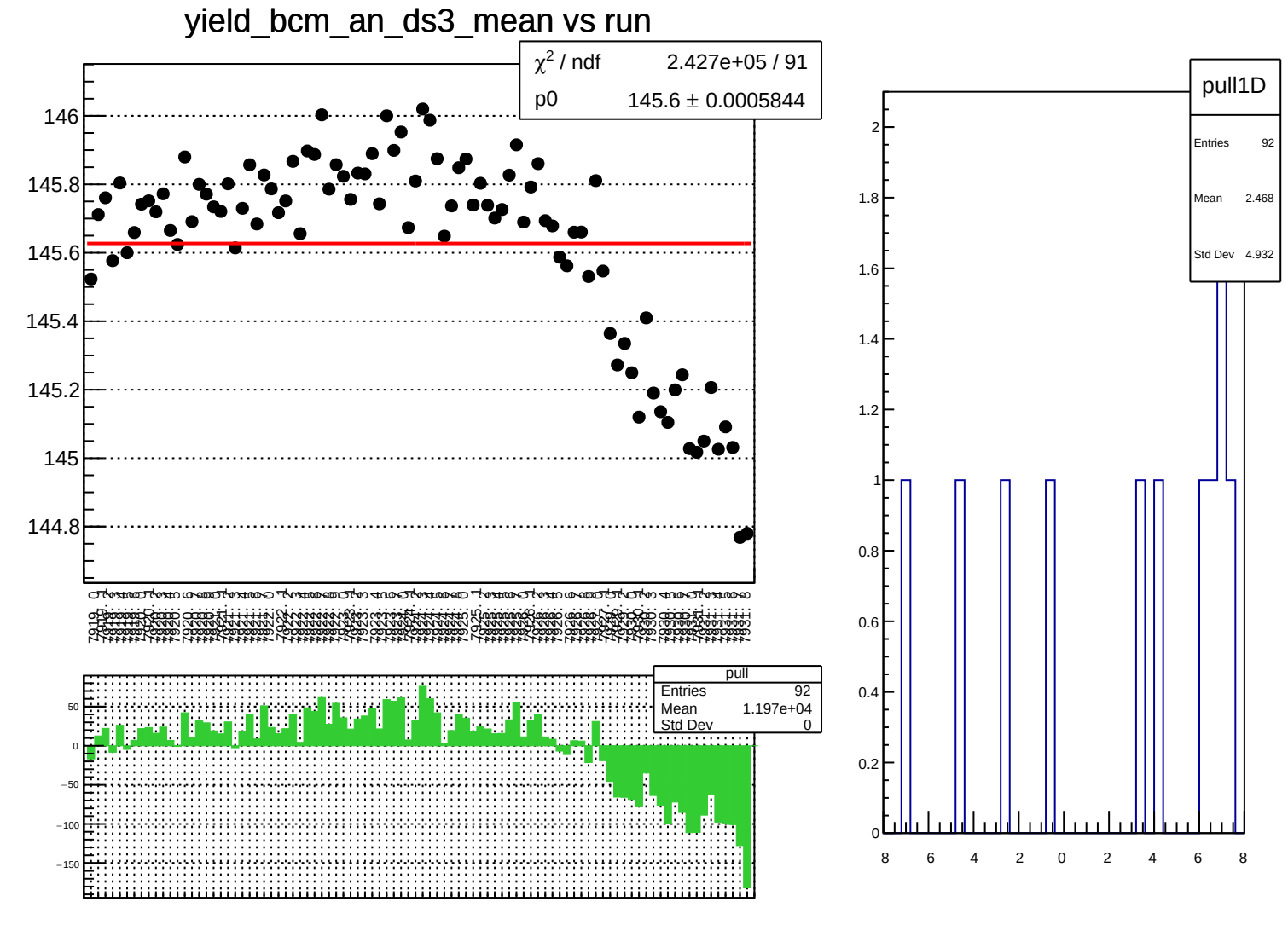

yield_bcm_an_diff_mean vs run
χ² / ndf 1.371e+07 / 91
p0 −4.753e+04 ± 5.876
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean −539.5
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600
−800

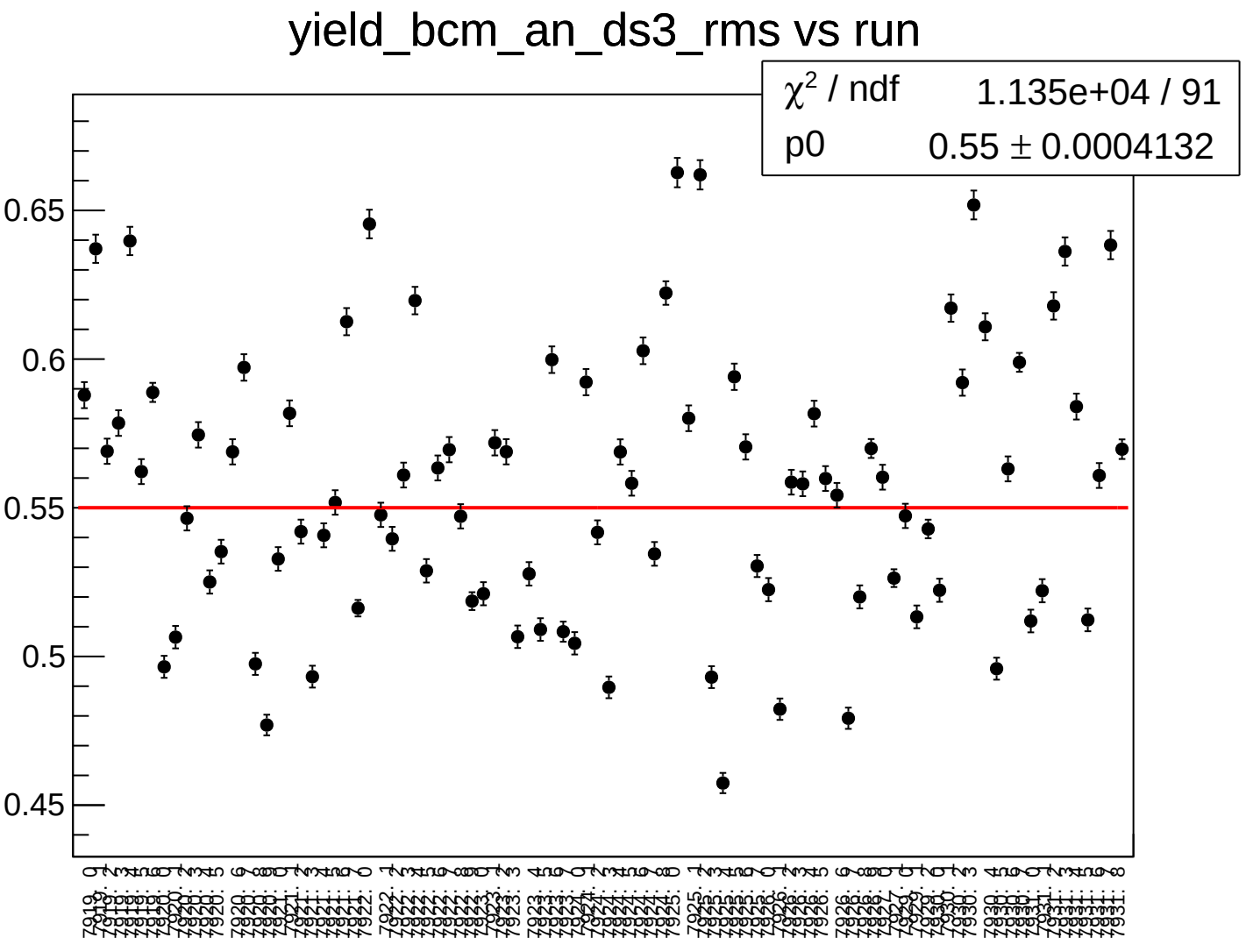

pull1D
Entries 92
Mean −1.926
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

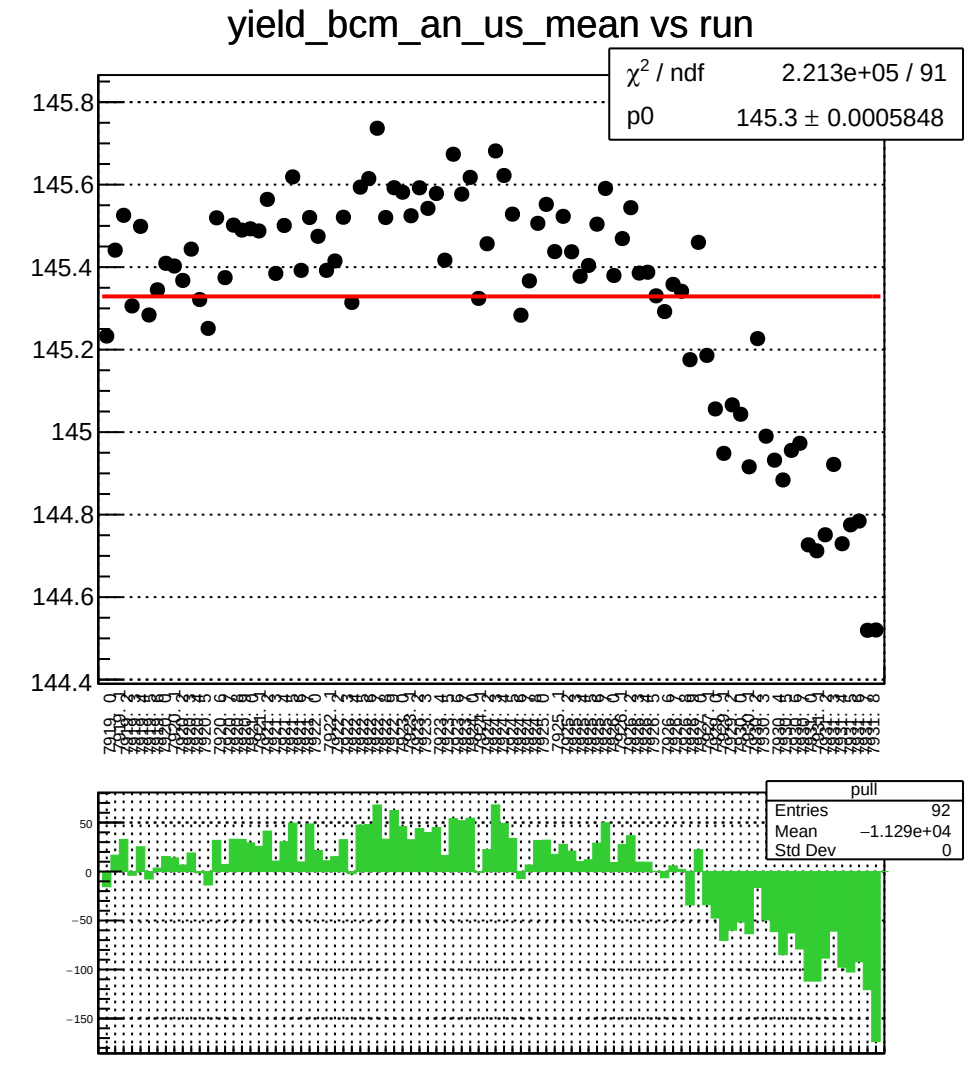

yield_bcm_an_diff_rms vs run
χ² / ndf 1.033e+05 / 91
p0 5384 ± 4.155
18000
16000
14000
12000
10000
8000
6000
4000

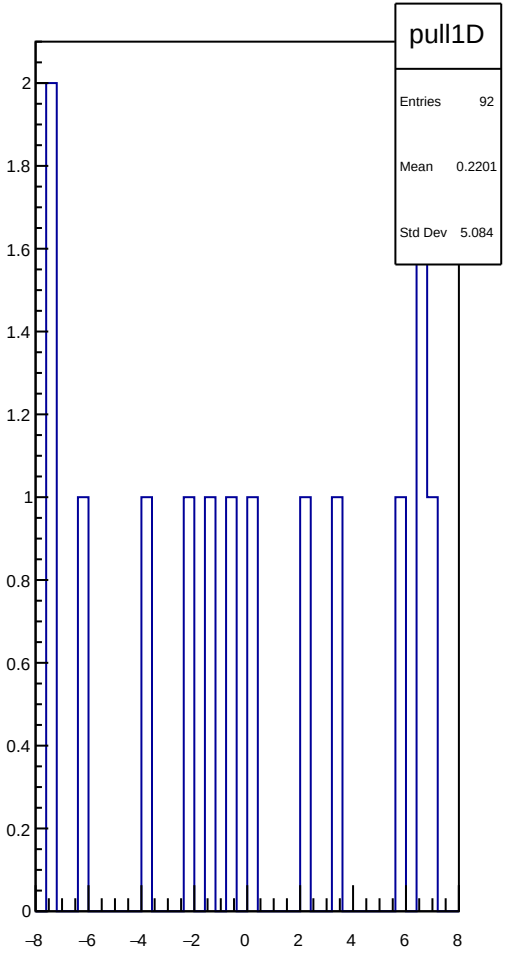

yield_bcm_an_ds_mean vs run
χ² / ndf 2.335e+05 / 91
p0 145.4 ± 0.0005807
145.8
145.6
145.4
145.2
145
144.8
144.6
pull
Entries 92
Mean 8915
Std Dev 0
50
0
−50
−100
−150
pull1D
Entries 92
Mean 0.5898
Std Dev 4.711
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

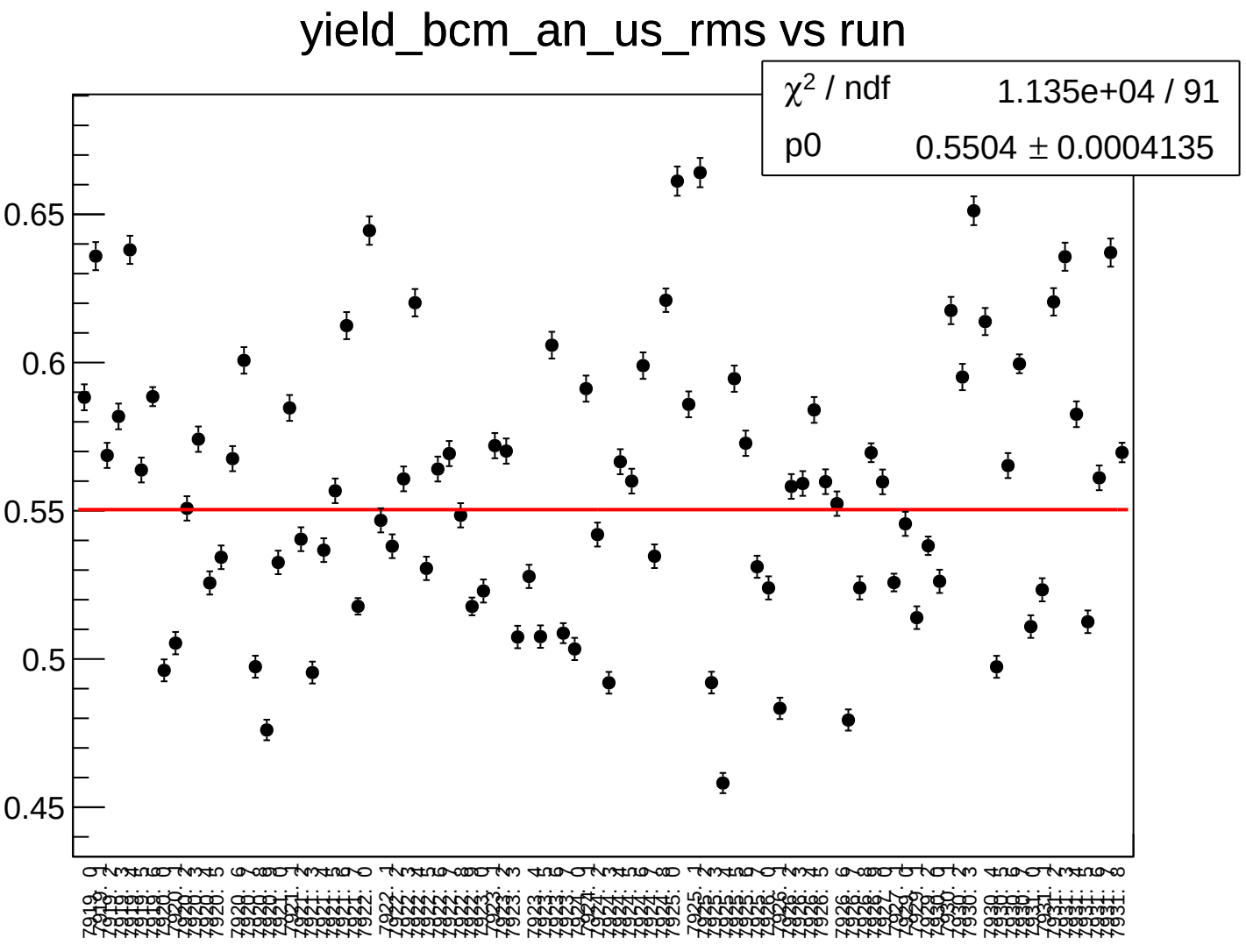

yield_bcm_an_ds_rms vs run
χ² / ndf 1.136e+04 / 91
p0 0.5465 ± 0.0004106
0.65
0.6
0.55
0.5
0.45

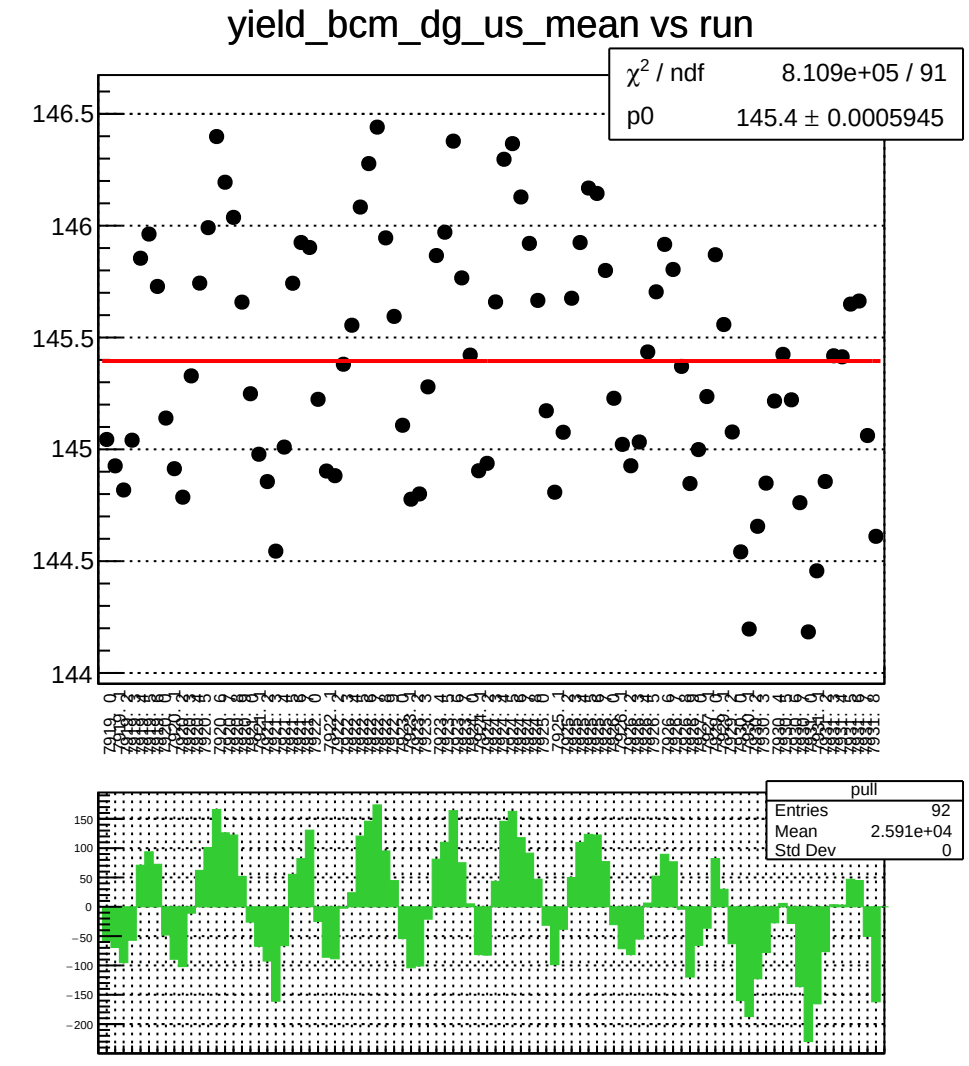

yield_bcm_an_ds3_mean vs run
χ² / ndf 2.427e+05 / 91
p0 145.6 ± 0.0005844
146
145.8
145.6
145.4
145.2
145
144.8
pull
Entries 92
Mean 1.197e+04
Std Dev 0
50
0
−50
−100
−150
pull1D
Entries 92
Mean 2.468
Std Dev 4.932
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

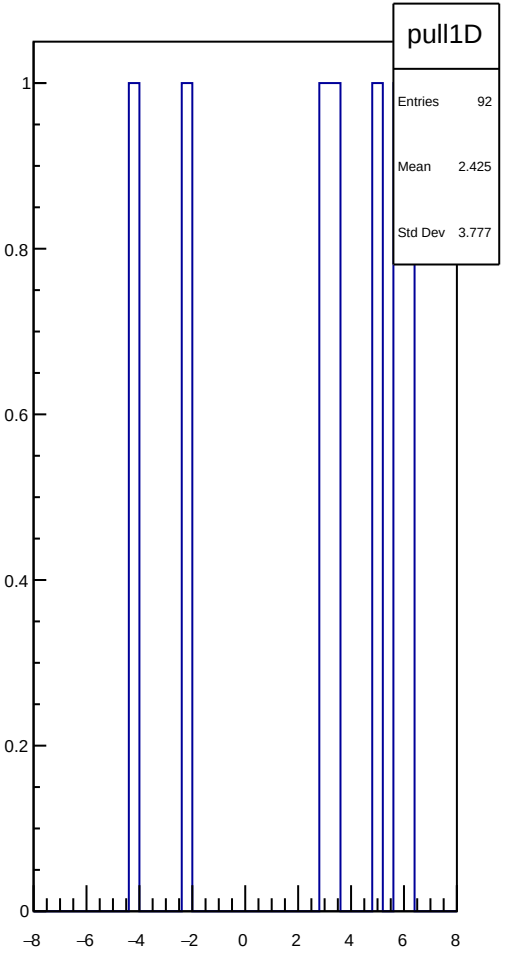

yield_bcm_an_ds3_rms vs run
χ^2 / ndf 1.135e+04 / 91
p0 0.55 ± 0.0004132
0.65
0.6
0.55
0.5
0.45

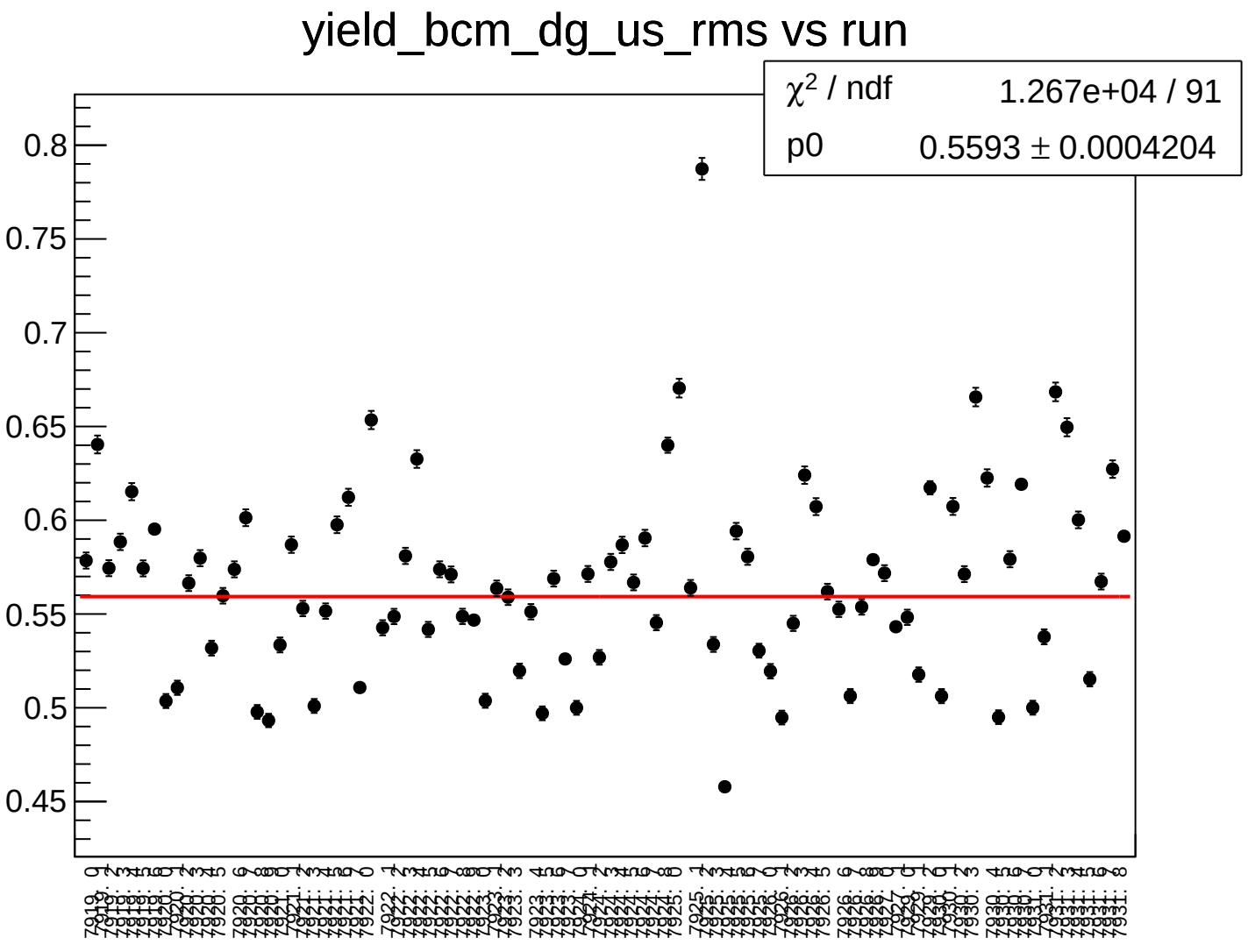

yield_bcm_an_us_mean vs run
χ² / ndf 2.213e+05 / 91
p0 145.3 ± 0.0005848
145.8
145.6
145.4
145.2
145
144.8
144.6
144.4
pull
Entries 92
Mean −1.129e+04
Std Dev 0
50
0
−50
−100
−150

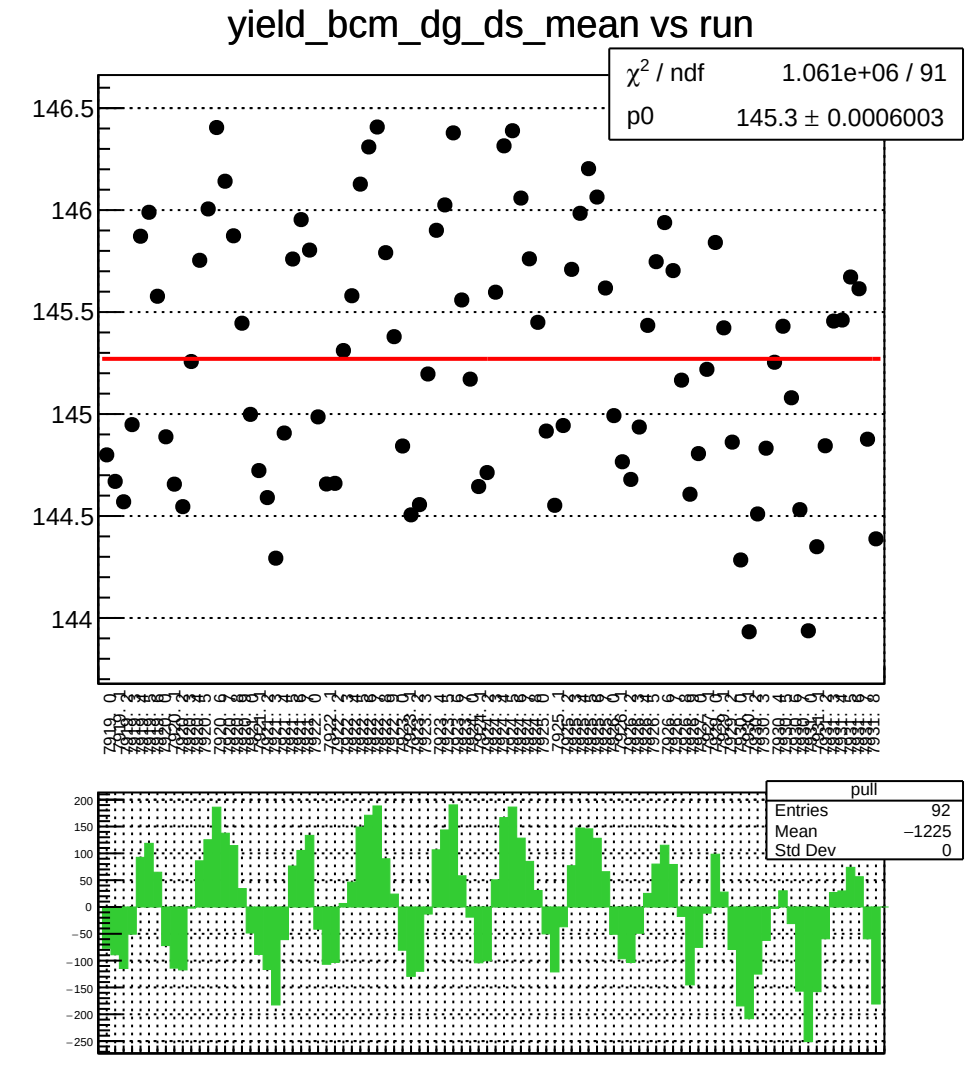

pull1D
Entries 92
Mean 0.2201
Std Dev 5.084
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

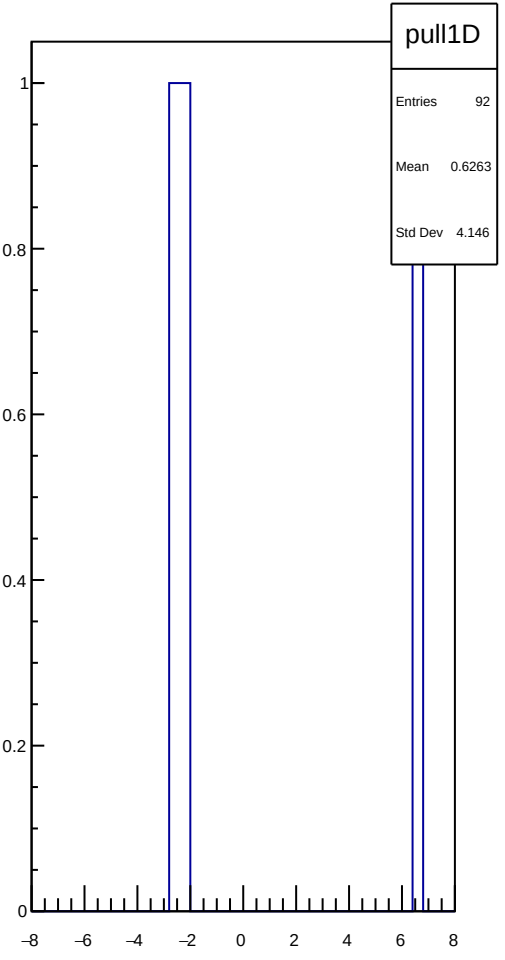

yield_bcm_an_us_rms vs run
χ² / ndf 1.135e+04 / 91
p0 0.5504 ± 0.0004135
0.65
0.6
0.55
0.5
0.45

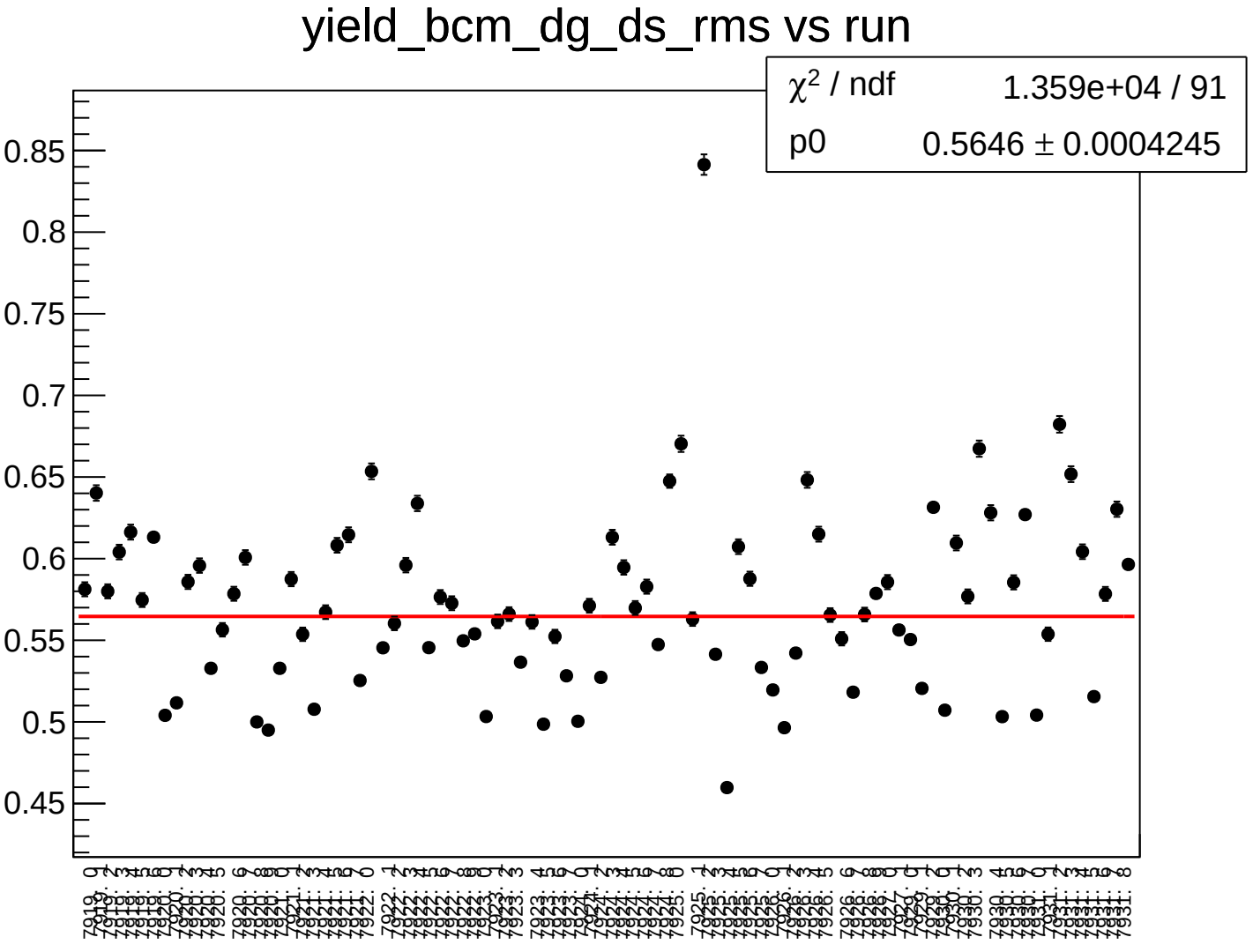

yield_bcm_dg_us_mean vs run
χ² / ndf 8.109e+05 / 91
p0 145.4 ± 0.0005945
146.5
146
145.5
145
144.5
144
pull
Entries 92
Mean 2.591e+04
Std Dev 0
150
100
50
0
−50
−100
−150
−200

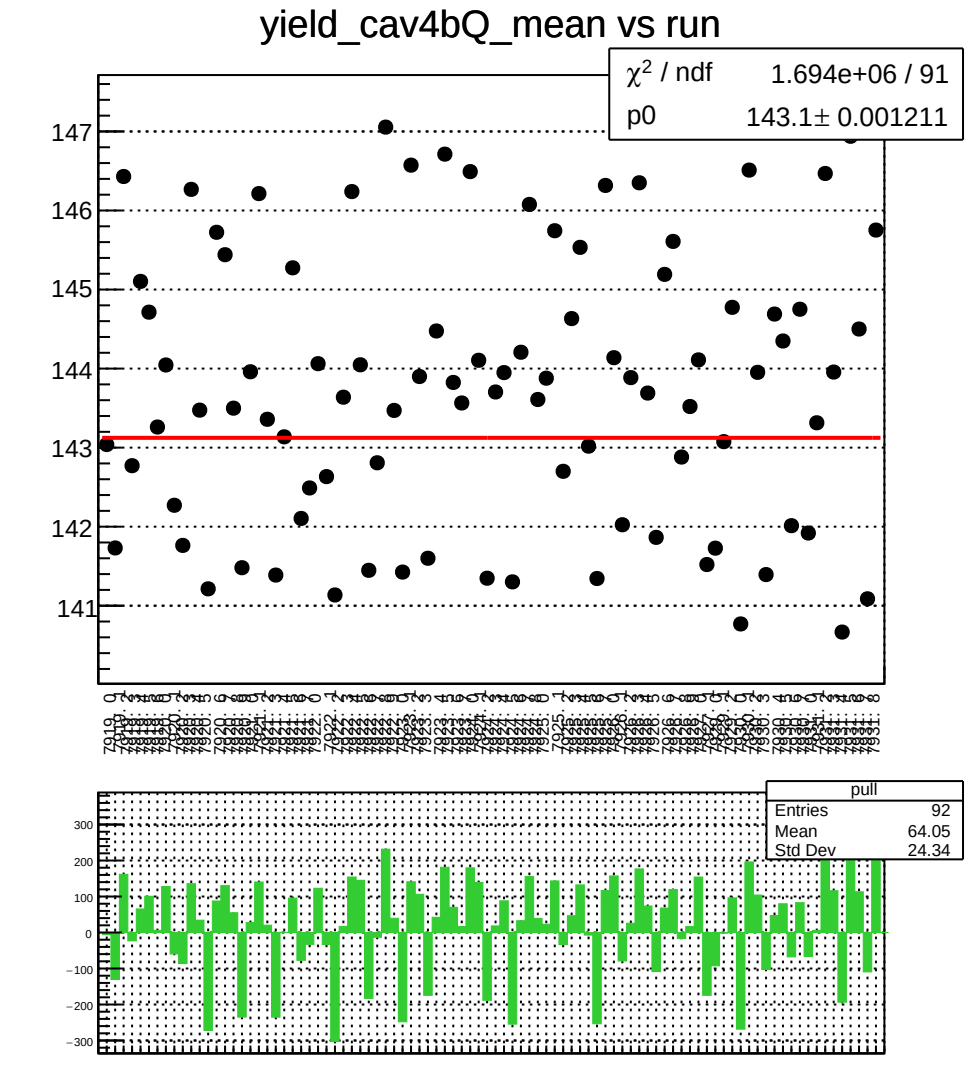

pull1D
Entries 92
Mean 2.425
Std Dev 3.777
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

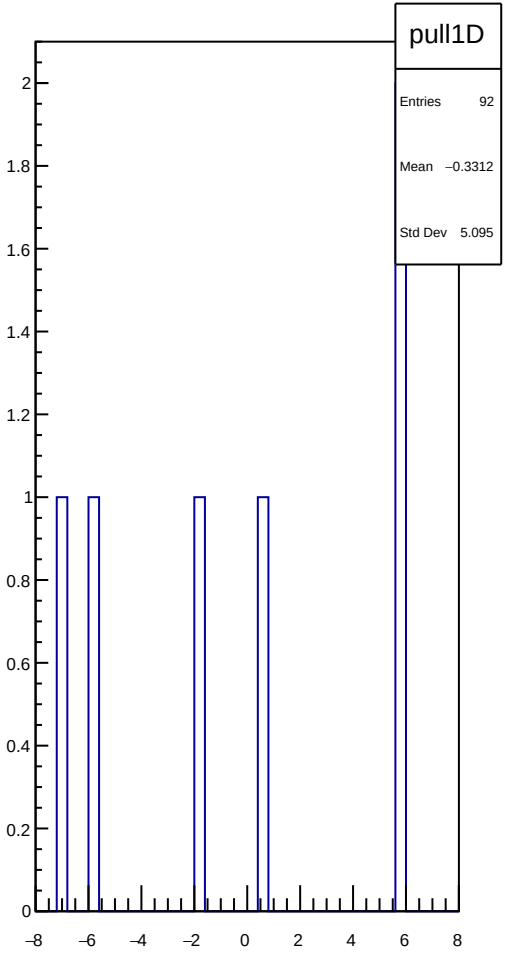

yield_bcm_dg_us_rms vs run
χ² / ndf 1.267e+04 / 91
p0 0.5593 ± 0.0004204
0.8
0.75
0.7
0.65
0.6
0.55
0.5
0.45

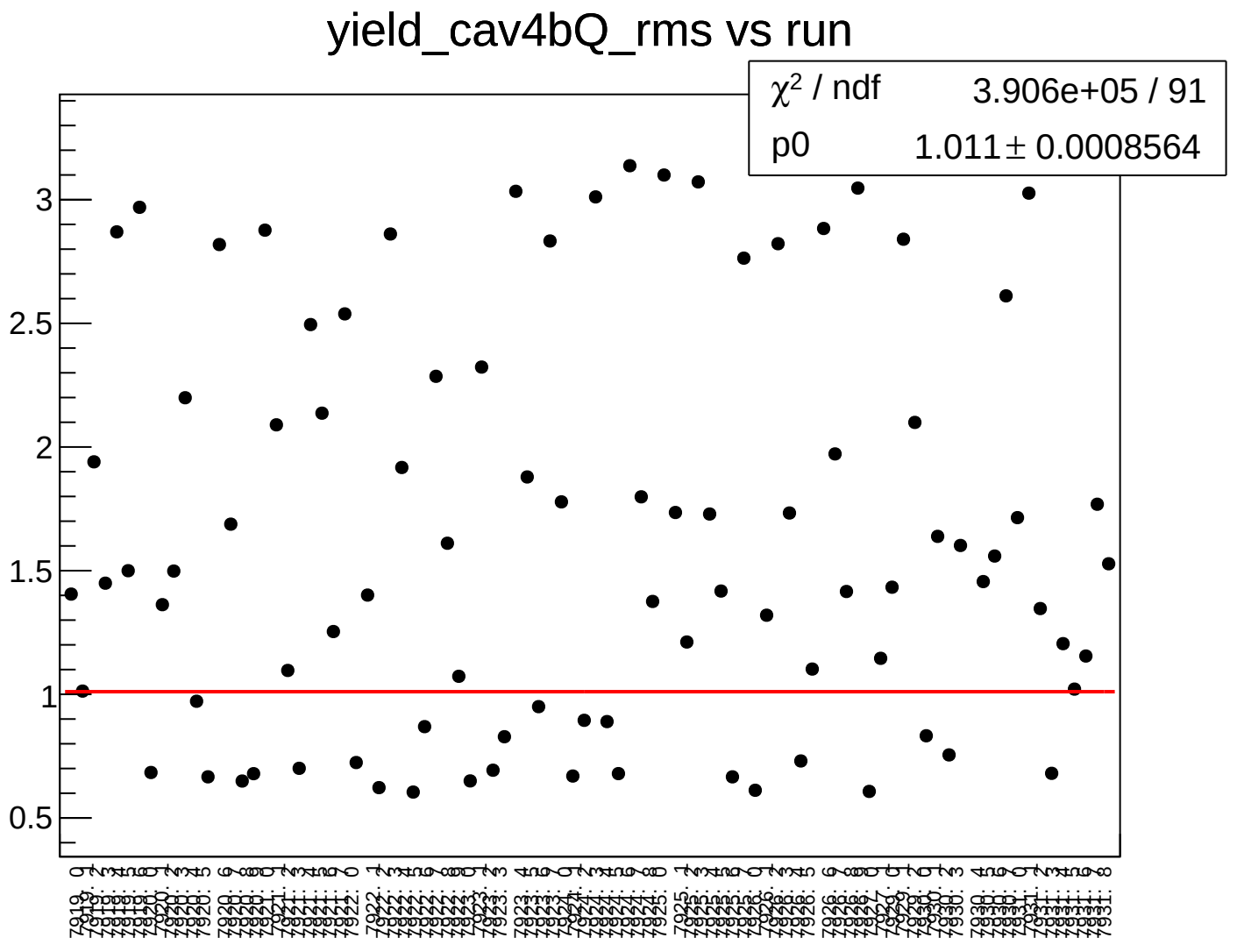

yield_bcm_dg_ds_mean vs run
χ² / ndf 1.061e+06 / 91
p0 145.3 ± 0.0006003
146.5
146
145.5
145
144.5
144
pull
Entries 92
Mean −1225
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200
−250

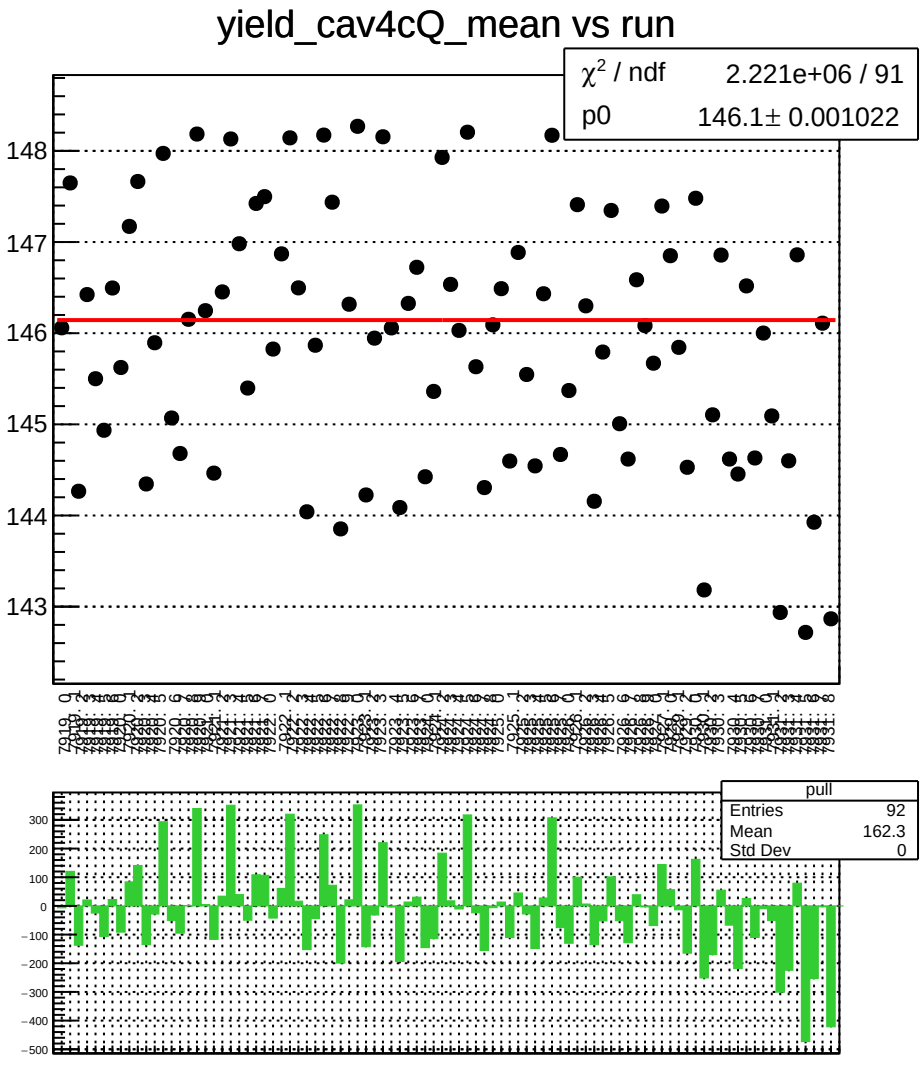

pull1D
Entries 92
Mean 0.6263
Std Dev 4.146
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

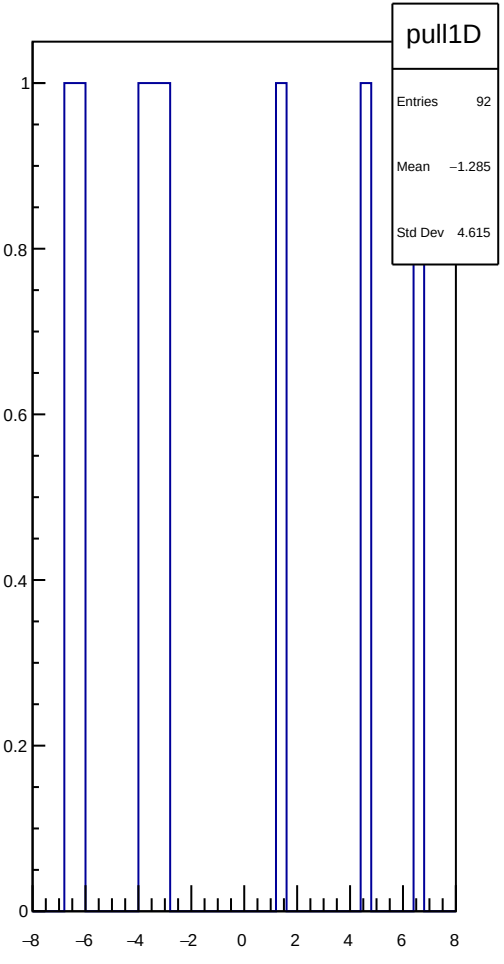

yield_bcm_dg_ds_rms vs run
χ² / ndf 1.359e+04 / 91
p0 0.5646 ± 0.0004245
0.85
0.8
0.75
0.7
0.65
0.6
0.55
0.5
0.45

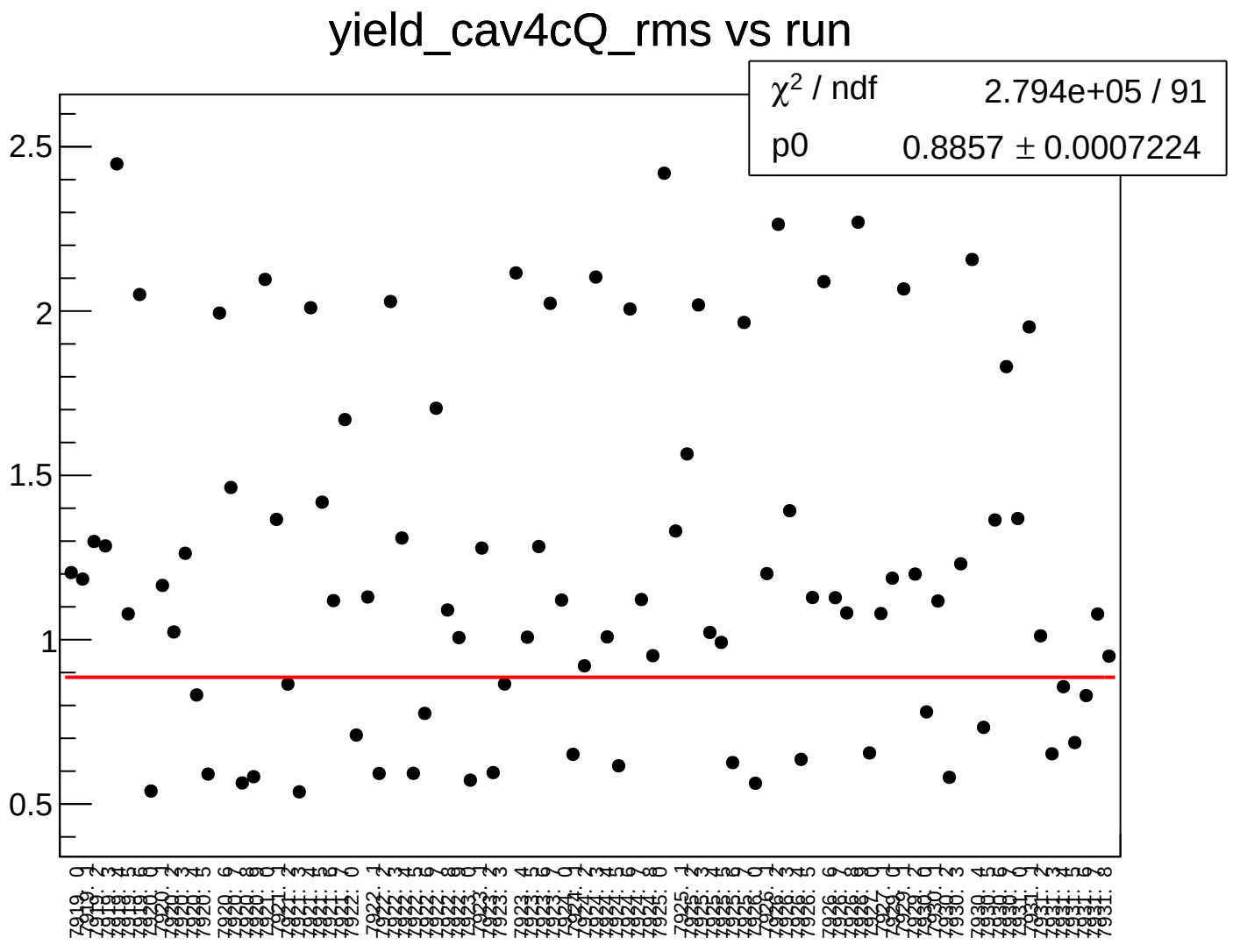

yield_cav4bQ_mean vs run
χ² / ndf 1.694e+06 / 91
p0 143.1± 0.001211
147
146
145
144
143
142
141
pull
Entries 92
Mean 64.05
Std Dev 24.34
300
200
100
0
−100
−200
−300

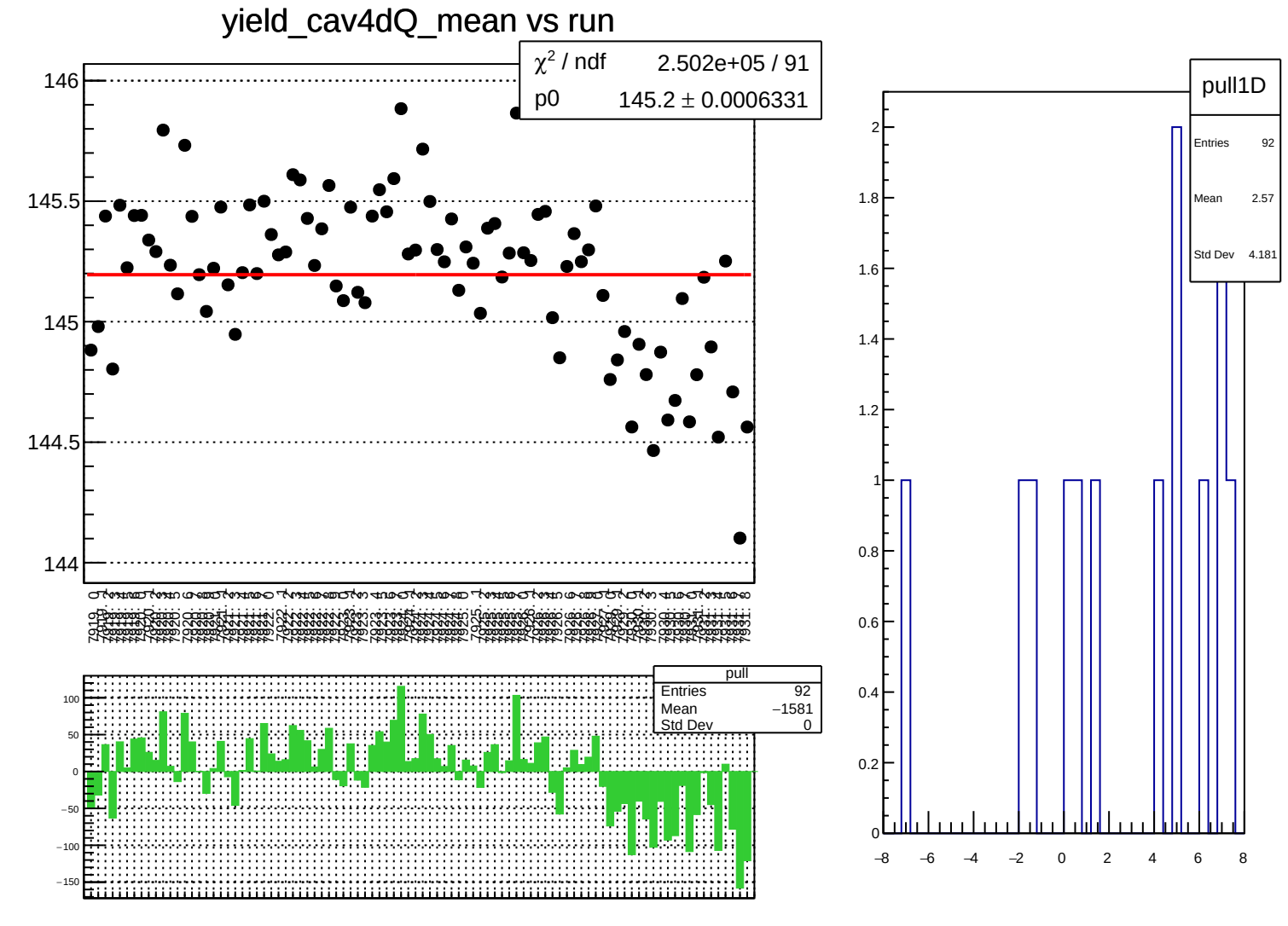

pull1D
Entries 92
Mean −0.3312
Std Dev 5.095
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

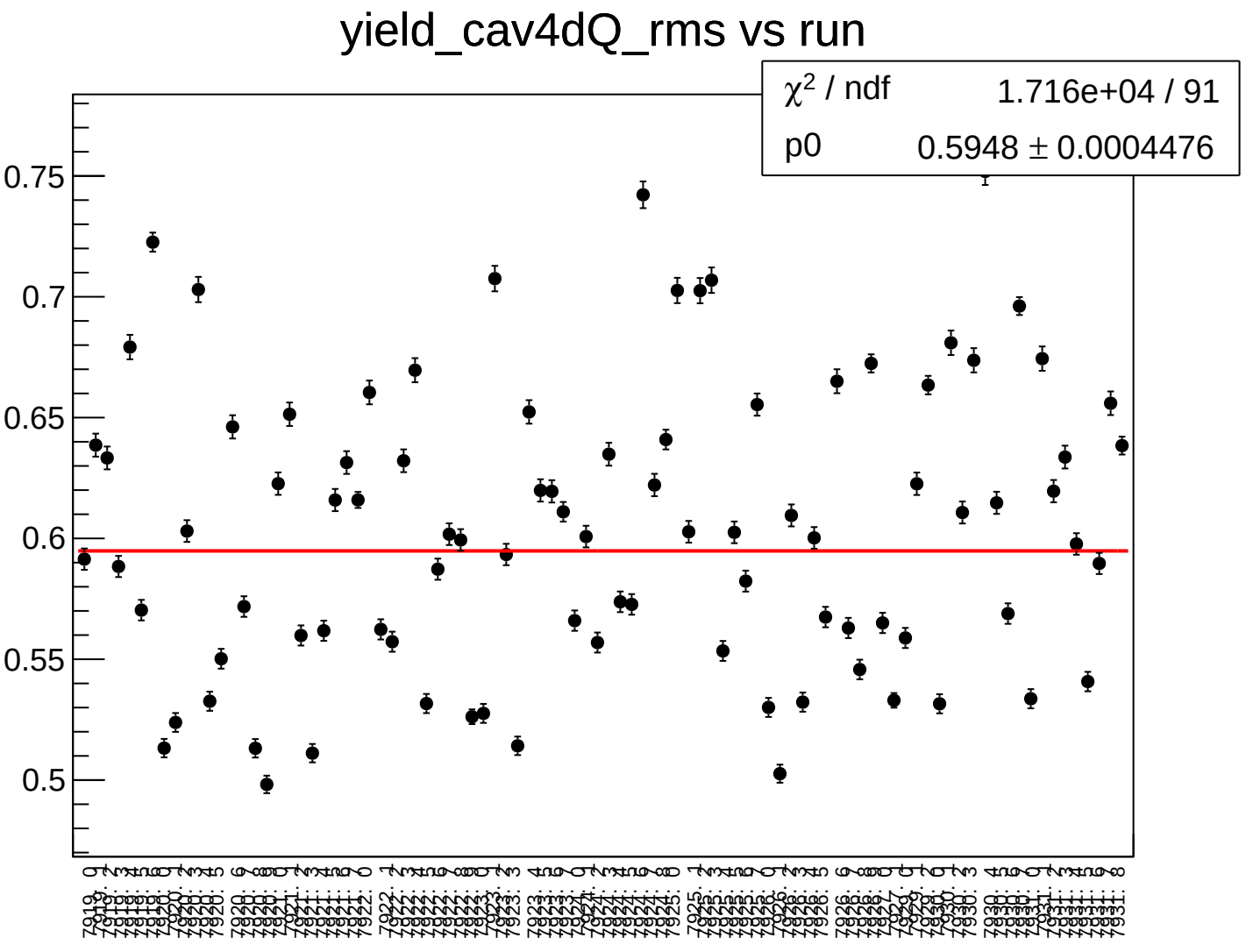

yield_cav4bQ_rms vs run
χ² / ndf 3.906e+05 / 91
p0 1.011 ± 0.0008564
3
2.5
2
1.5
1
0.5

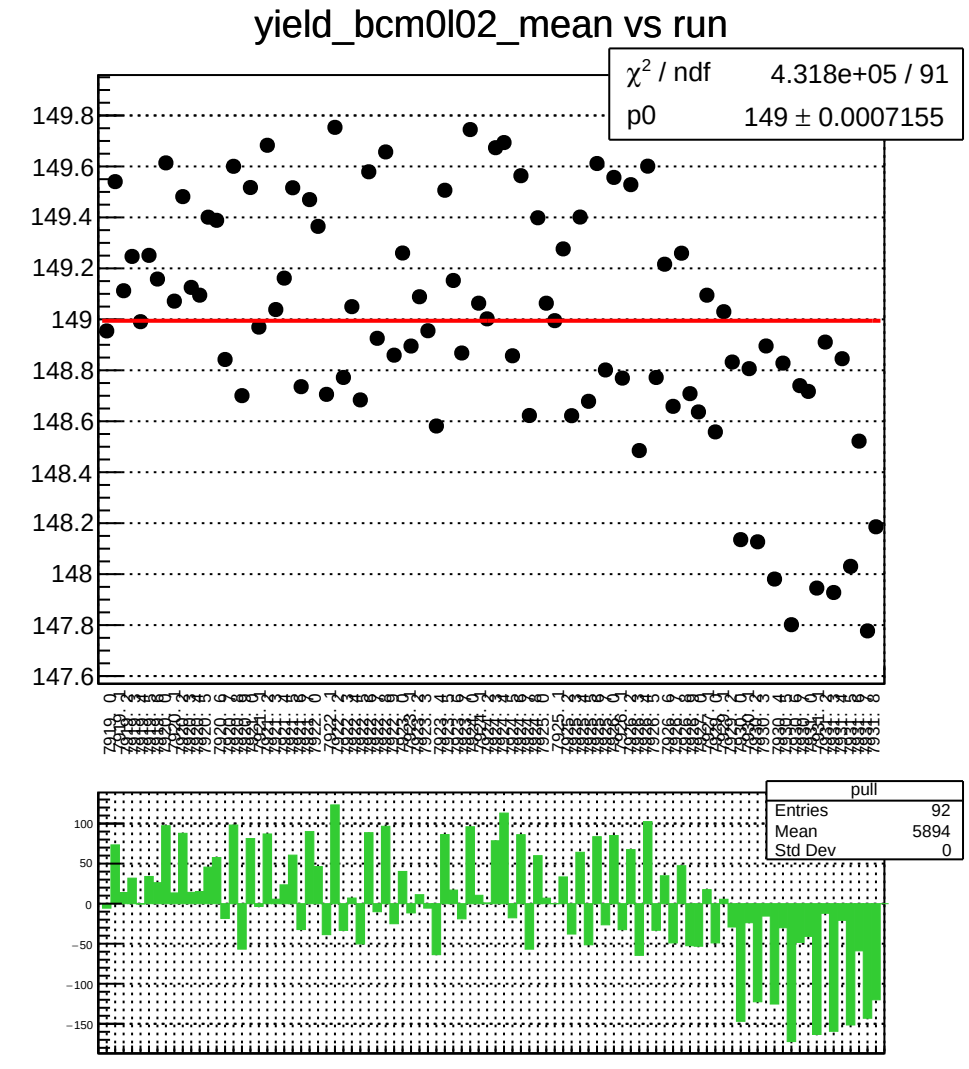

yield_cav4cQ_mean vs run
χ² / ndf 2.221e+06 / 91
p0 146.1± 0.001022
148
147
146
145
144
143
pull
Entries 92
Mean 162.3
Std Dev 0
300
200
100
0
−100
−200
−300
−400
−500

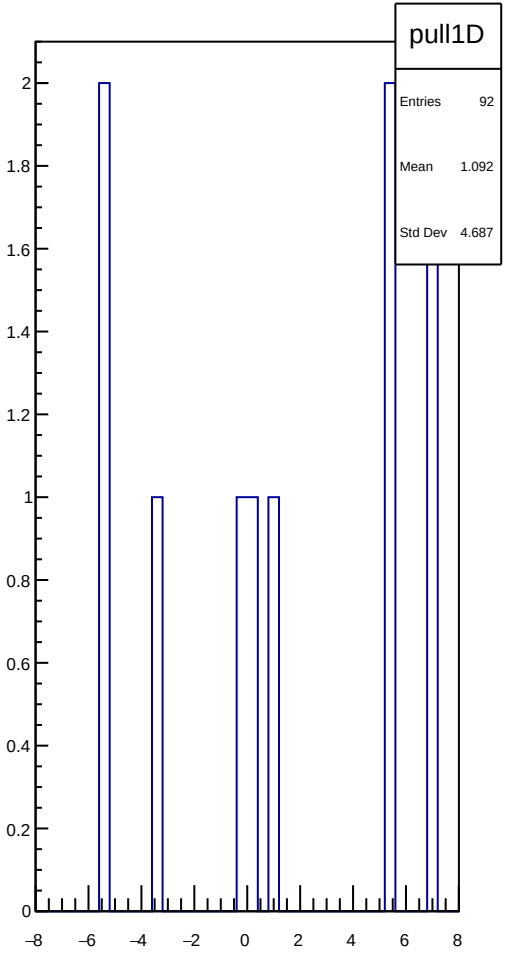

pull1D
Entries 92
Mean −1.285
Std Dev 4.615
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

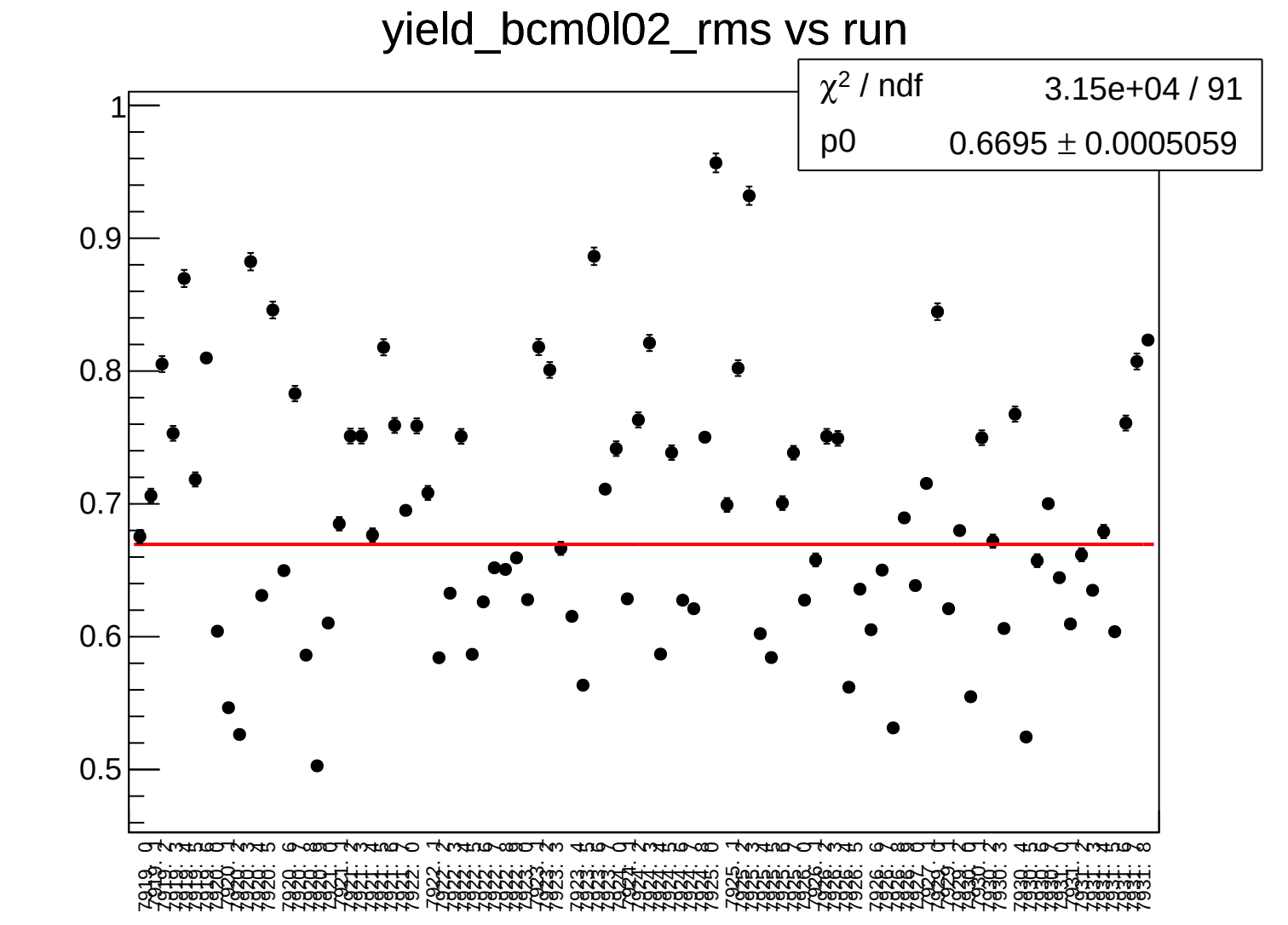

yield_cav4cQ_rms vs run
χ² / ndf 2.794e+05 / 91
p0 0.8857 ± 0.0007224
2.5
2
1.5
1
0.5

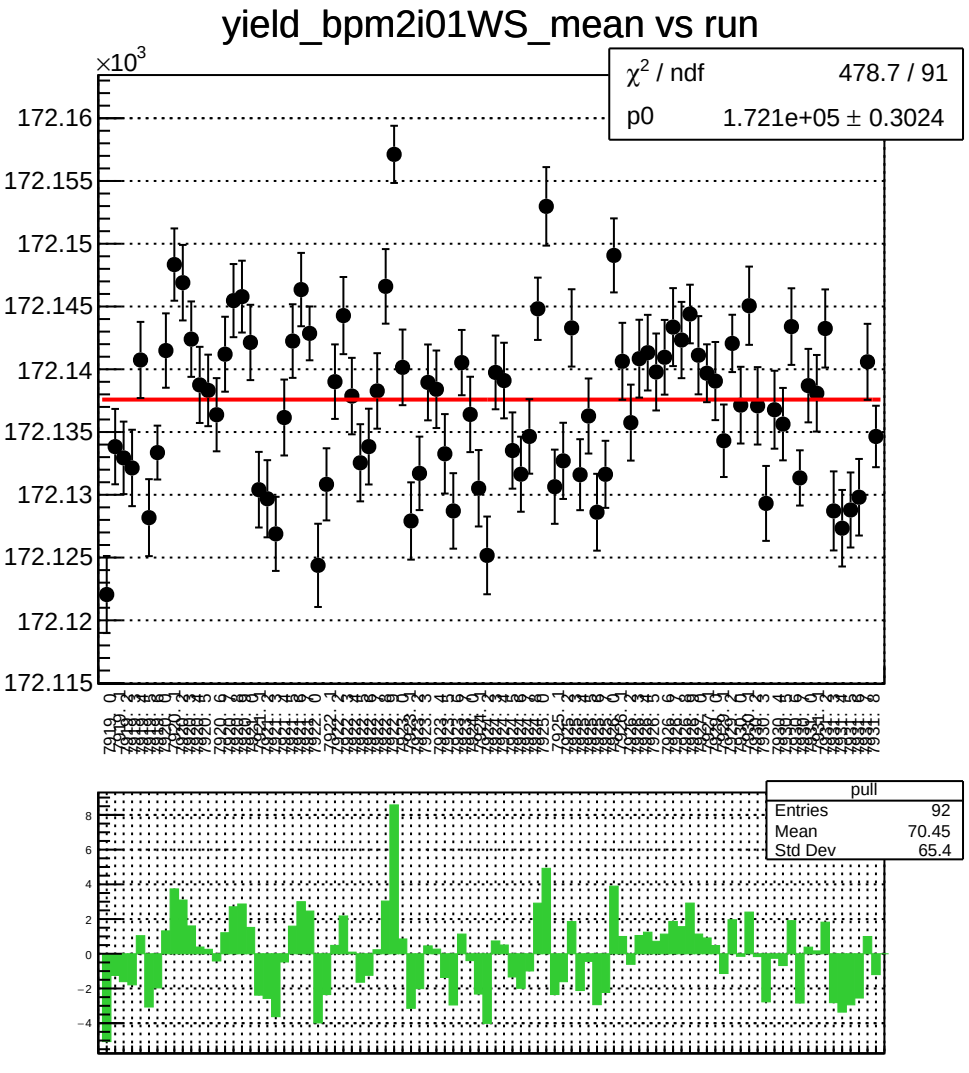

yield_cav4dQ_mean vs run
χ² / ndf 2.502e+05 / 91
p0 145.2 ± 0.0006331
146
145.5
145
144.5
144
pull
Entries 92
Mean −1581
Std Dev 0
100
50
0
−50
−100
−150
pull1D
Entries 92
Mean 2.57
Std Dev 4.181
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

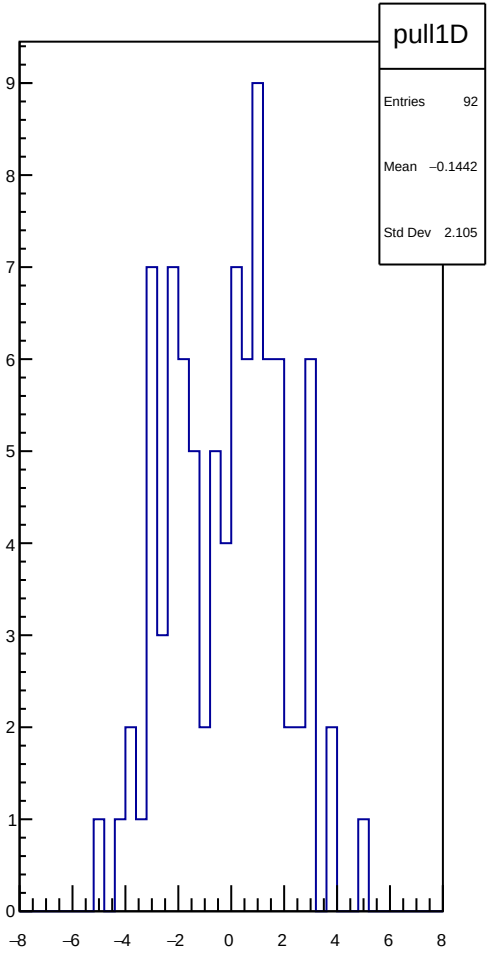

yield_cav4dQ_rms vs run
χ² / ndf 1.716e+04 / 91
p0 0.5948 ± 0.0004476
0.75
0.7
0.65
0.6
0.55
0.5

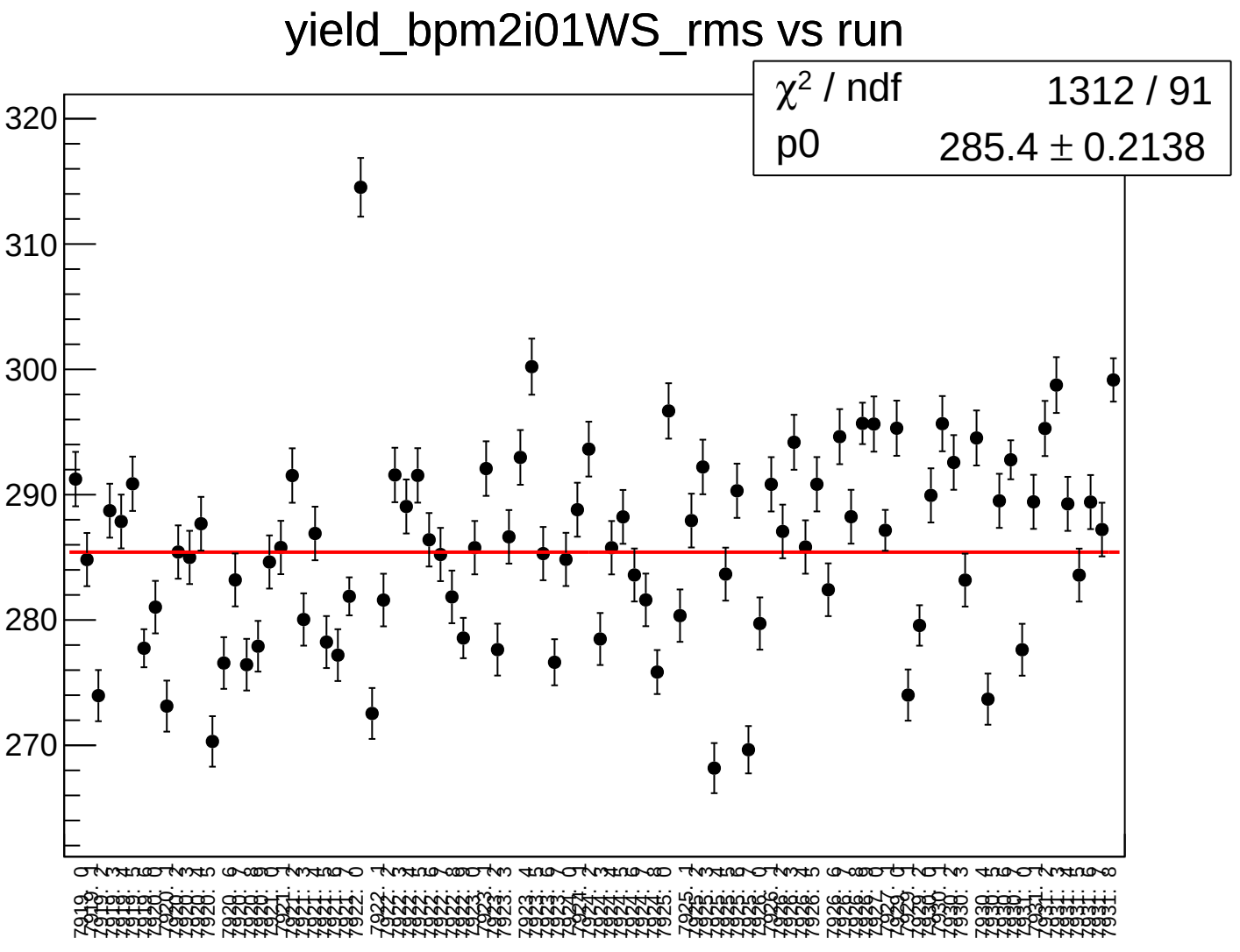

yield_bcm0l02_mean vs run
χ² / ndf 4.318e+05 / 91
p0 149 ± 0.0007155
149.8
149.6
149.4
149.2
149
148.8
148.6
148.4
148.2
148
147.8
147.6
pull
Entries 92
Mean 5894
Std Dev 0
100
50
0
−50
−100
−150

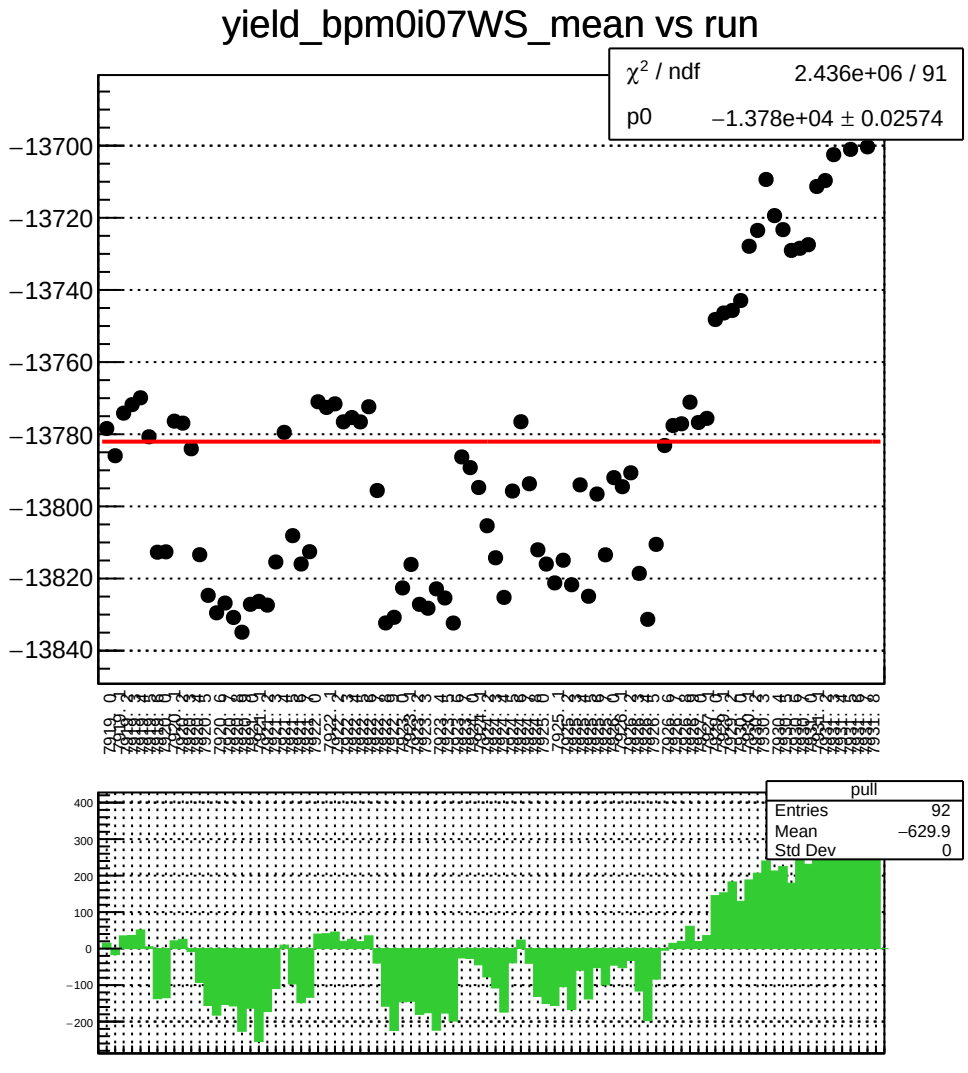

pull1D
Entries 92
Mean 1.092
Std Dev 4.687
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

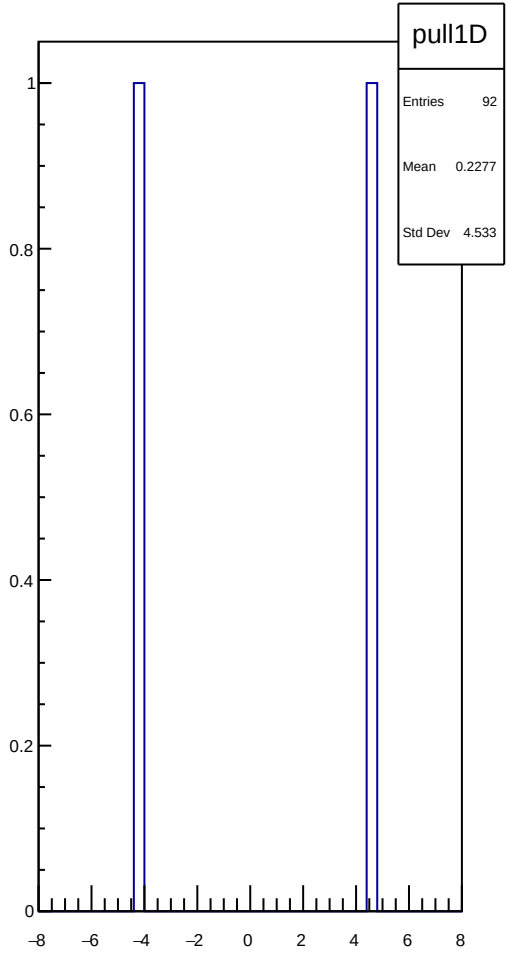

yield_bcm0l02_rms vs run
χ² / ndf 3.15e+04 / 91
p0 0.6695 ± 0.0005059
1
0.9
0.8
0.7
0.6
0.5

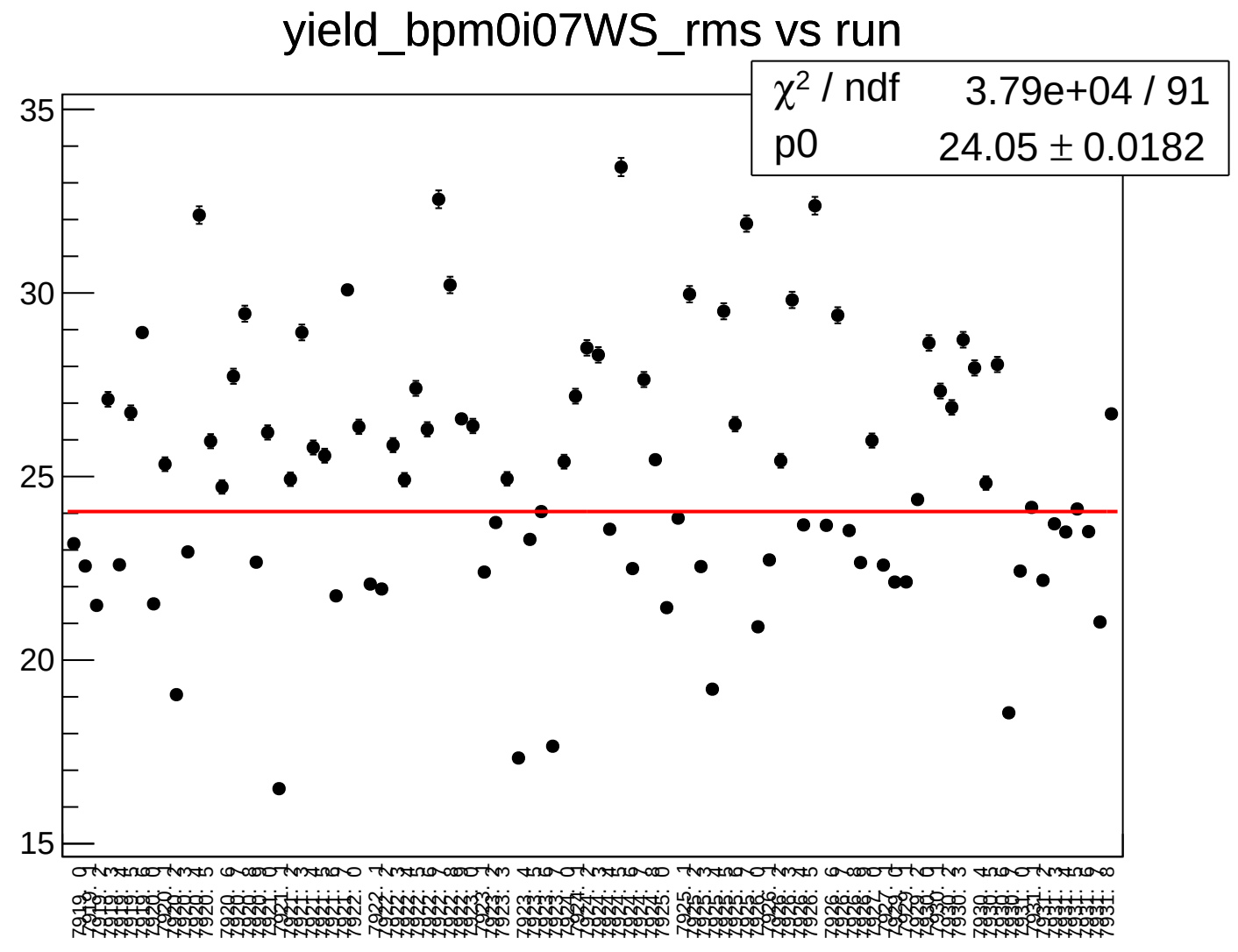

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 478.7 / 91
p0 1.721e+05 ± 0.3024
172.16
172.155
172.15
172.145
172.14
172.135
172.13
172.125
172.12
172.115
pull
Entries 92
Mean 70.45
Std Dev 65.4
8
6
4
2
0
−2
−4

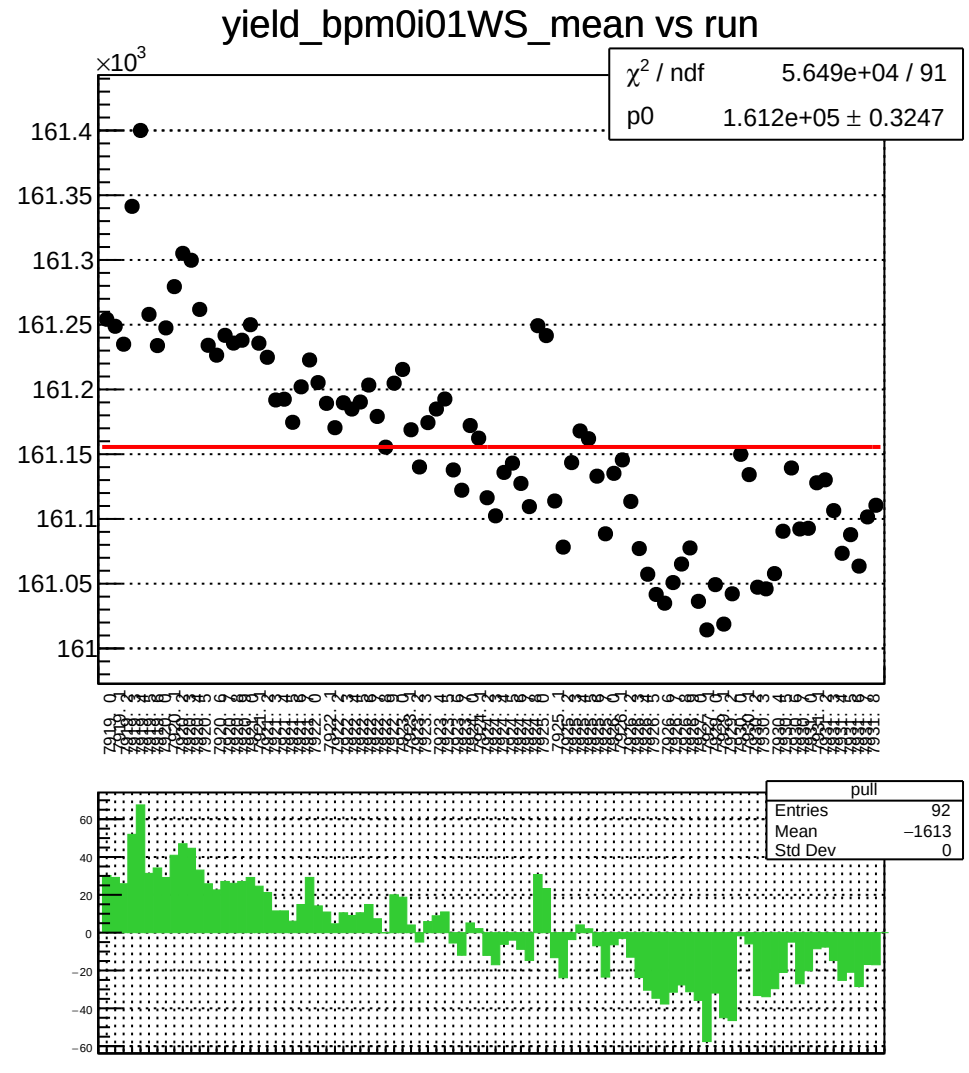

pull1D
Entries 92
Mean −0.1442
Std Dev 2.105
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

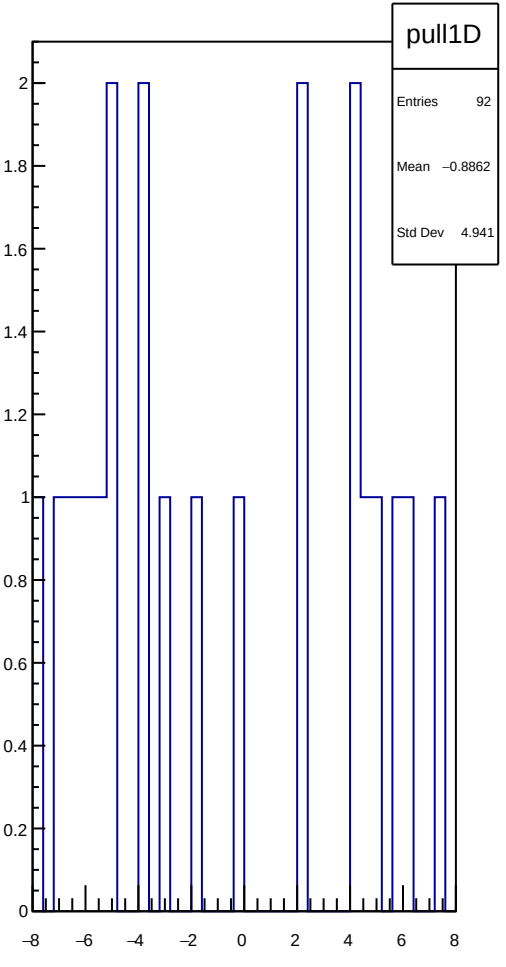

yield_bpm2i01WS_rms vs run
χ² / ndf 1312 / 91
p0 285.4 ± 0.2138
320
310
300
290
280
270

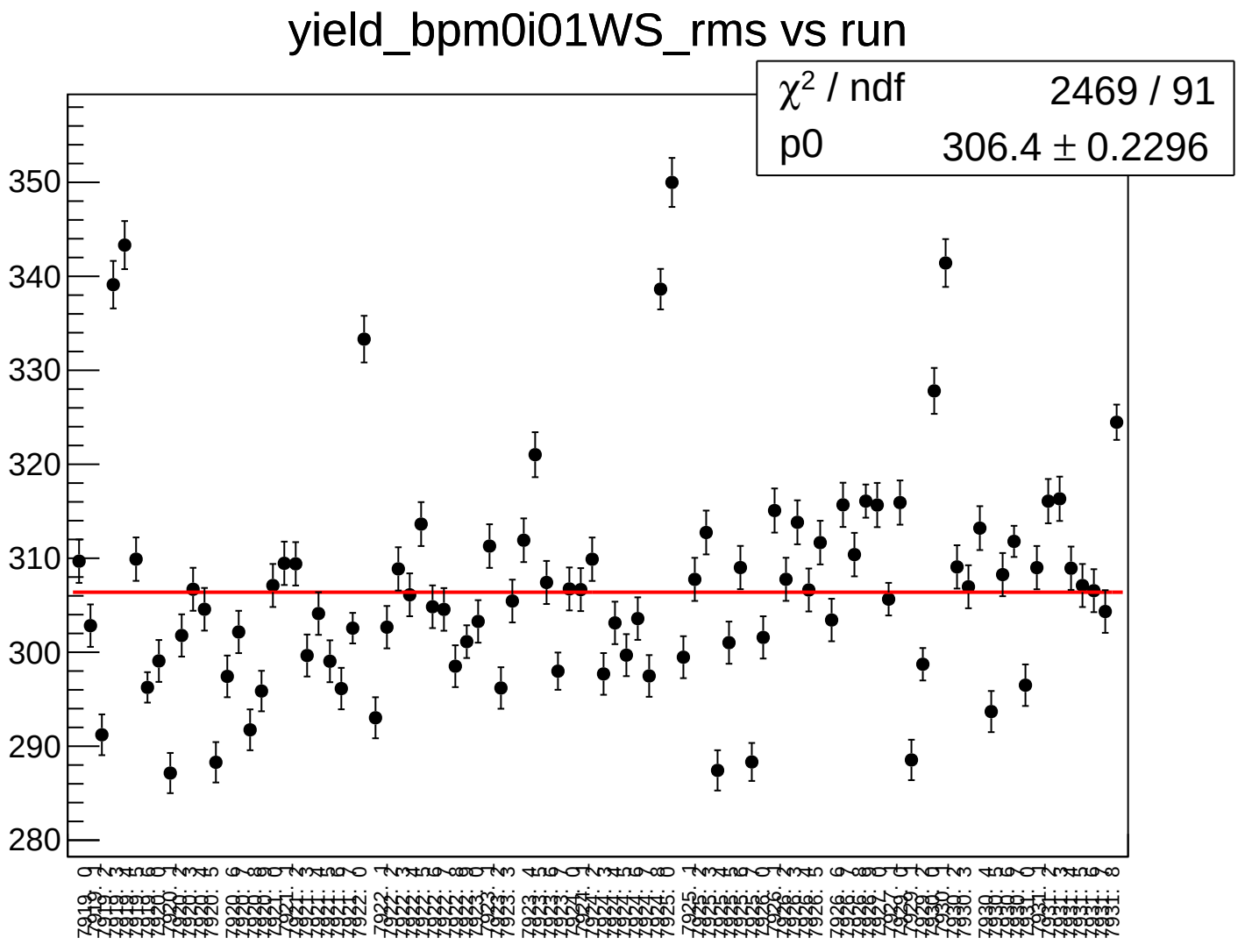

yield_bpm0i07WS_mean vs run
χ² / ndf 2.436e+06 / 91
p0 −1.378e+04 ± 0.02574
−13700
−13720
−13740
−13760
−13780
−13800
−13820
−13840
pull
Entries 92
Mean −629.9
Std Dev 0
400
300
200
100
0
−100
−200

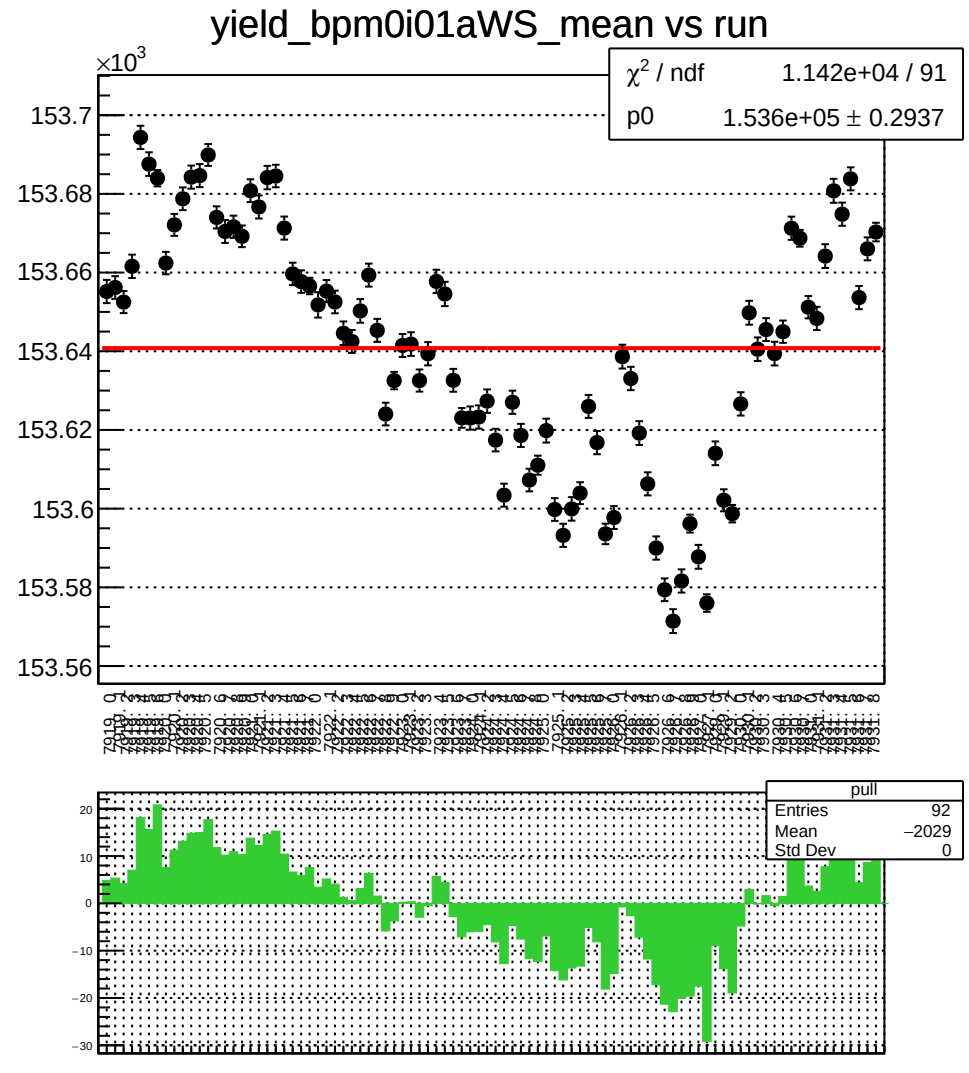

pull1D
Entries 92
Mean 0.2277
Std Dev 4.533
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

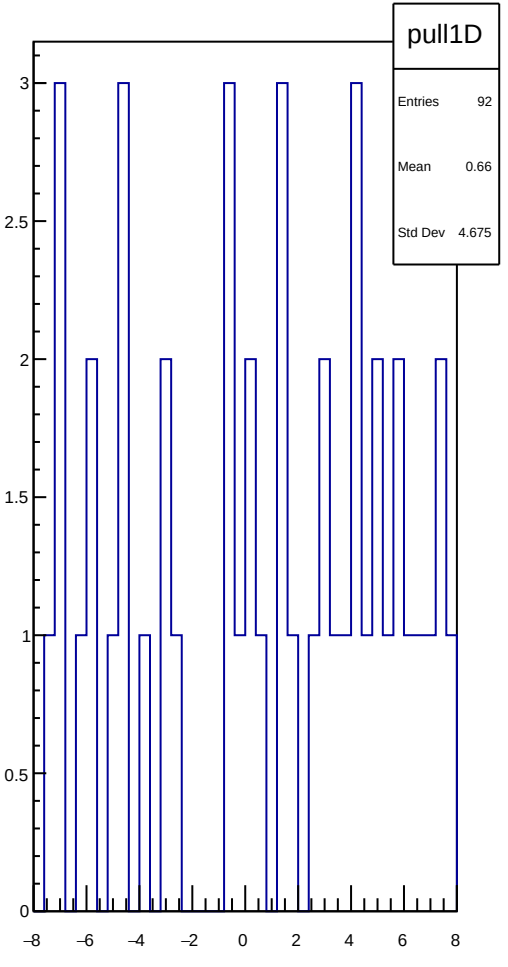

yield_bpm0i07WS_rms vs run
χ² / ndf 3.79e+04 / 91
p0 24.05 ± 0.0182
35
30
25
20
15

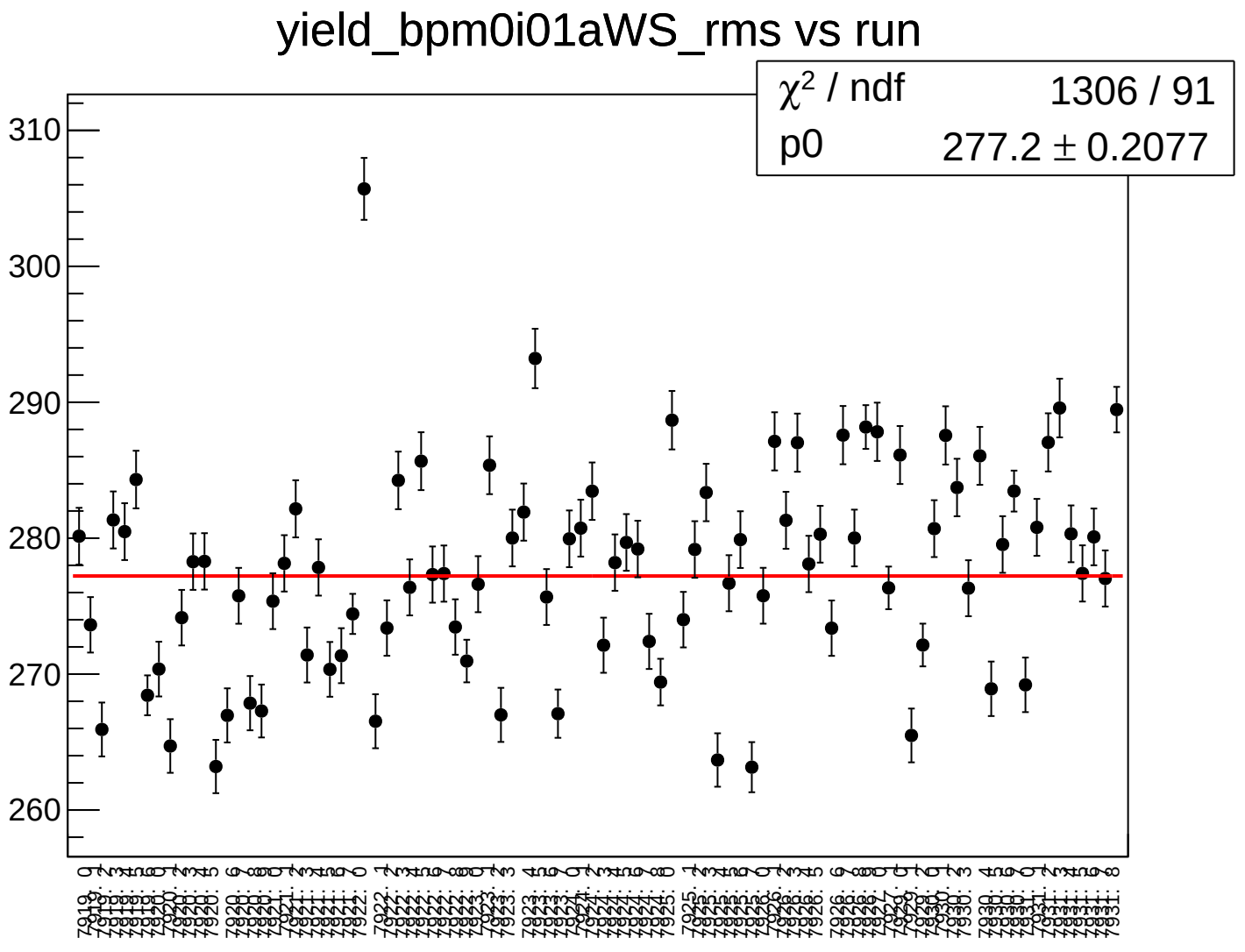

yield_bpm0i01WS_mean vs run
×10^3
χ² / ndf 5.649e+04 / 91
p0 1.612e+05 ± 0.3247
161.4
161.35
161.3
161.25
161.2
161.15
161.1
161.05
161
pull
Entries 92
Mean −1613
Std Dev 0
60
40
20
0
−20
−40
−60

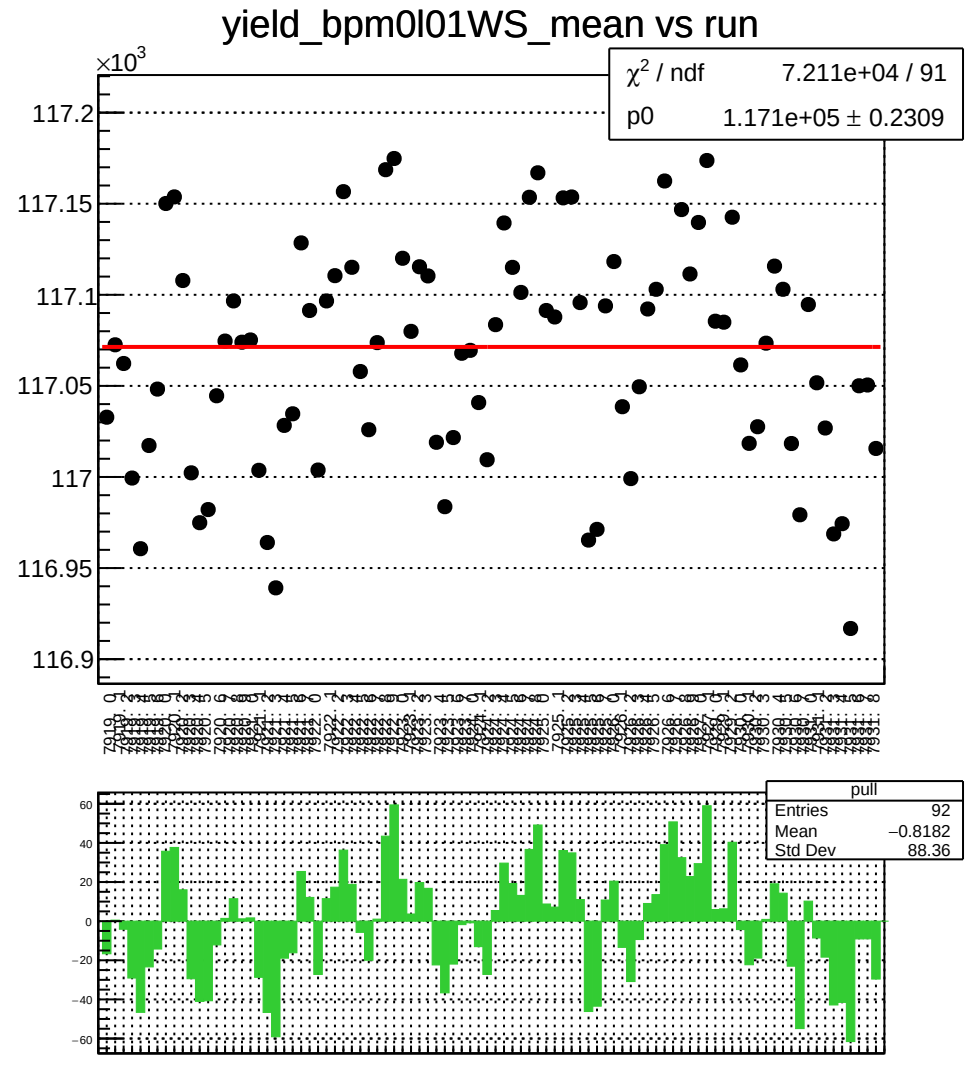

pull1D
Entries 92
Mean −0.8862
Std Dev 4.941
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

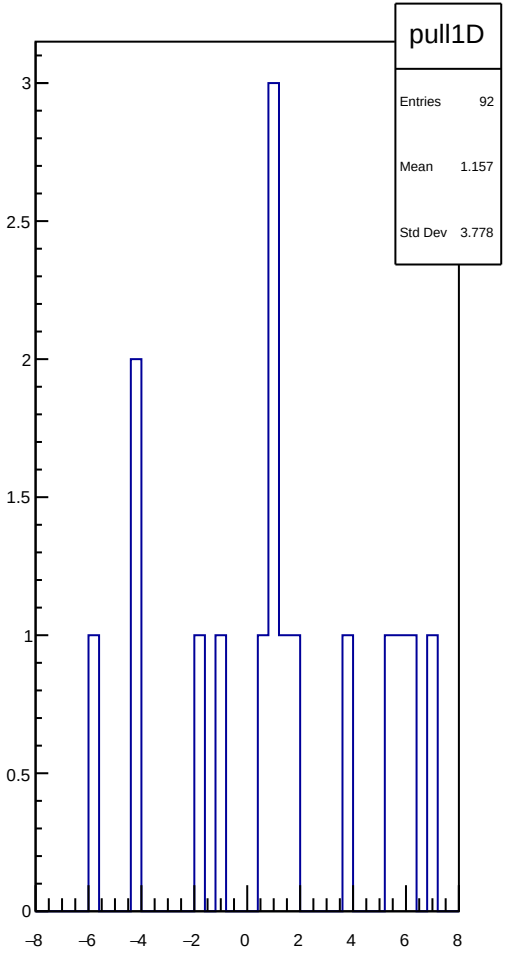

yield_bpm0i01WS_rms vs run
χ² / ndf 2469 / 91
p0 306.4 ± 0.2296
350
340
330
320
310
300
290
280

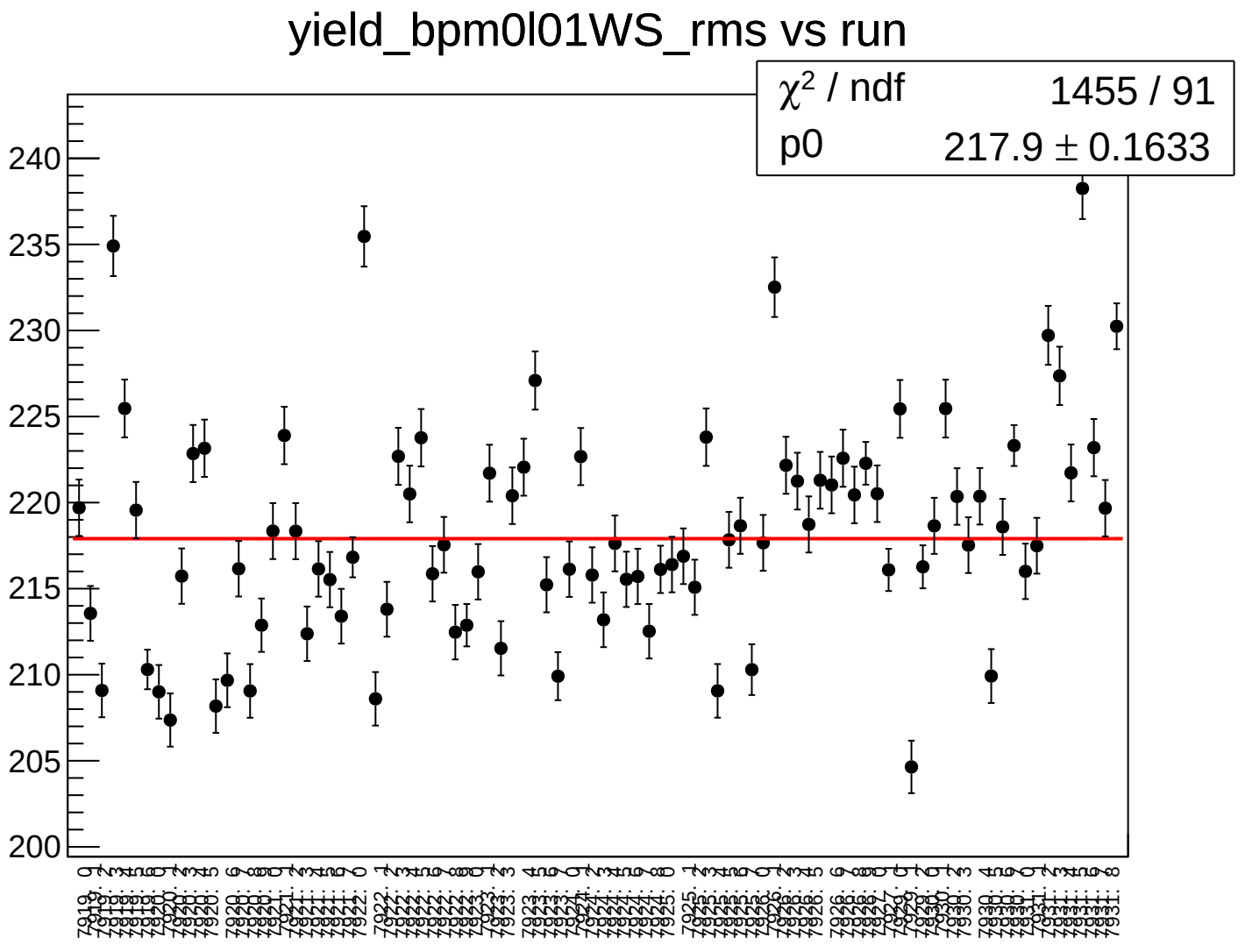

yield_bpm0i01aWS_mean vs run
×10^3
χ² / ndf 1.142e+04 / 91
p0 1.536e+05 ± 0.2937
153.7
153.68
153.66
153.64
153.62
153.6
153.58
153.56
pull
Entries 92
Mean −2029
Std Dev 0
20
10
0
−10
−20
−30

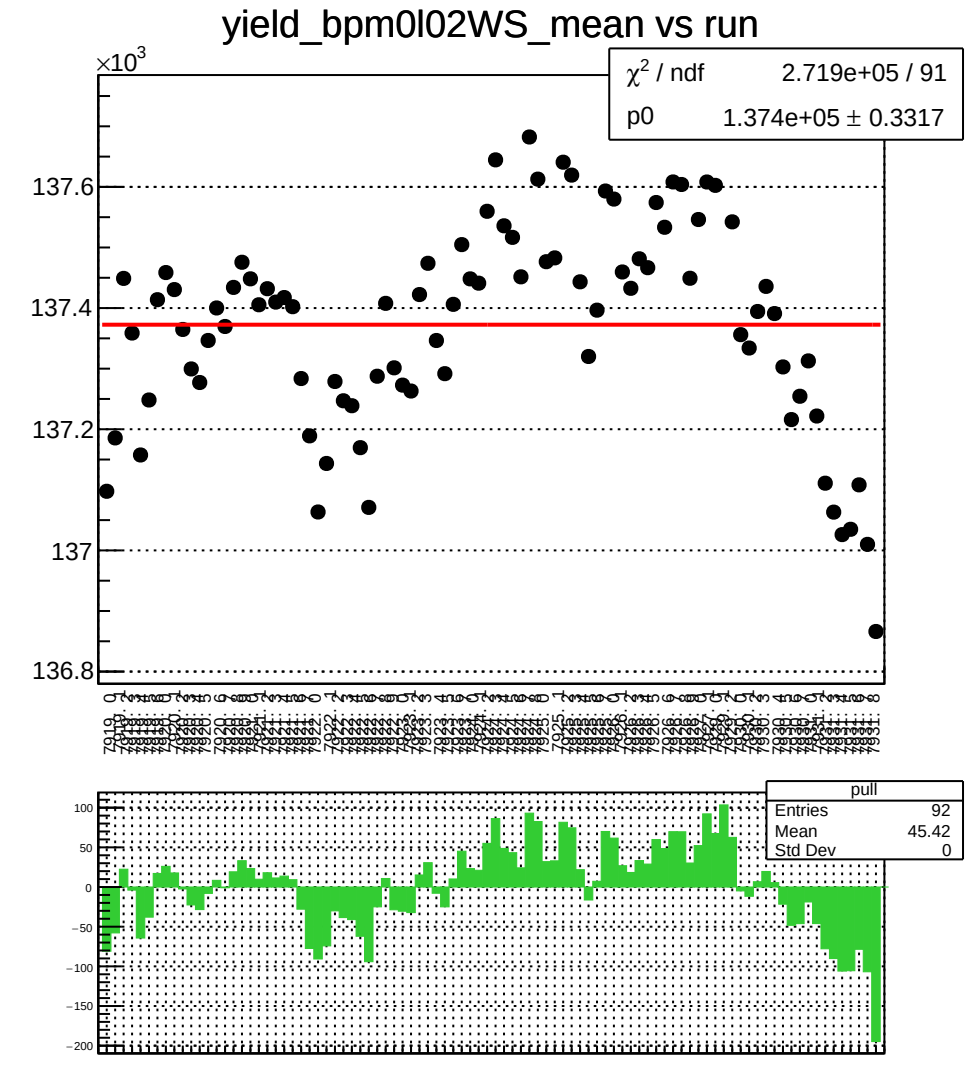

pull1D
Entries 92
Mean 0.66
Std Dev 4.675
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

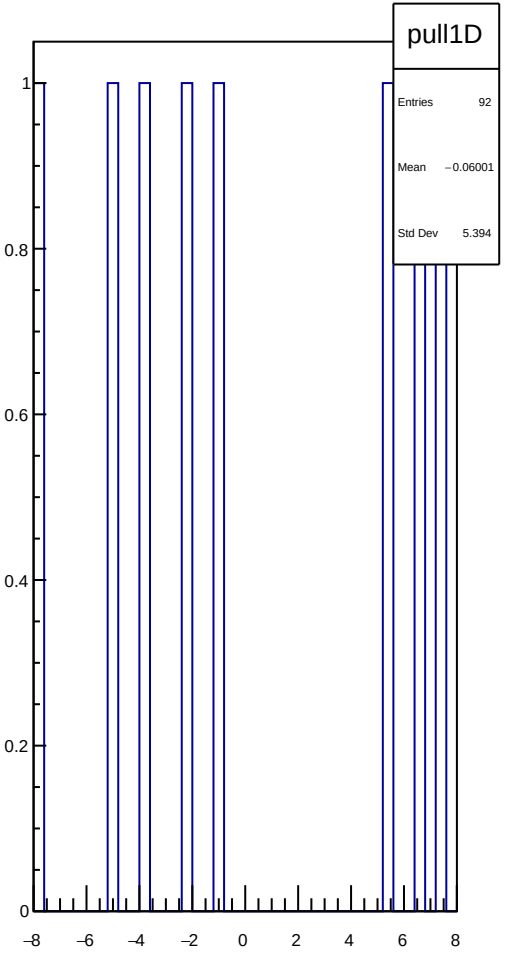

yield_bpm0i01aWS_rms vs run
χ² / ndf 1306 / 91
p0 277.2 ± 0.2077
310
300
290
280
270
260

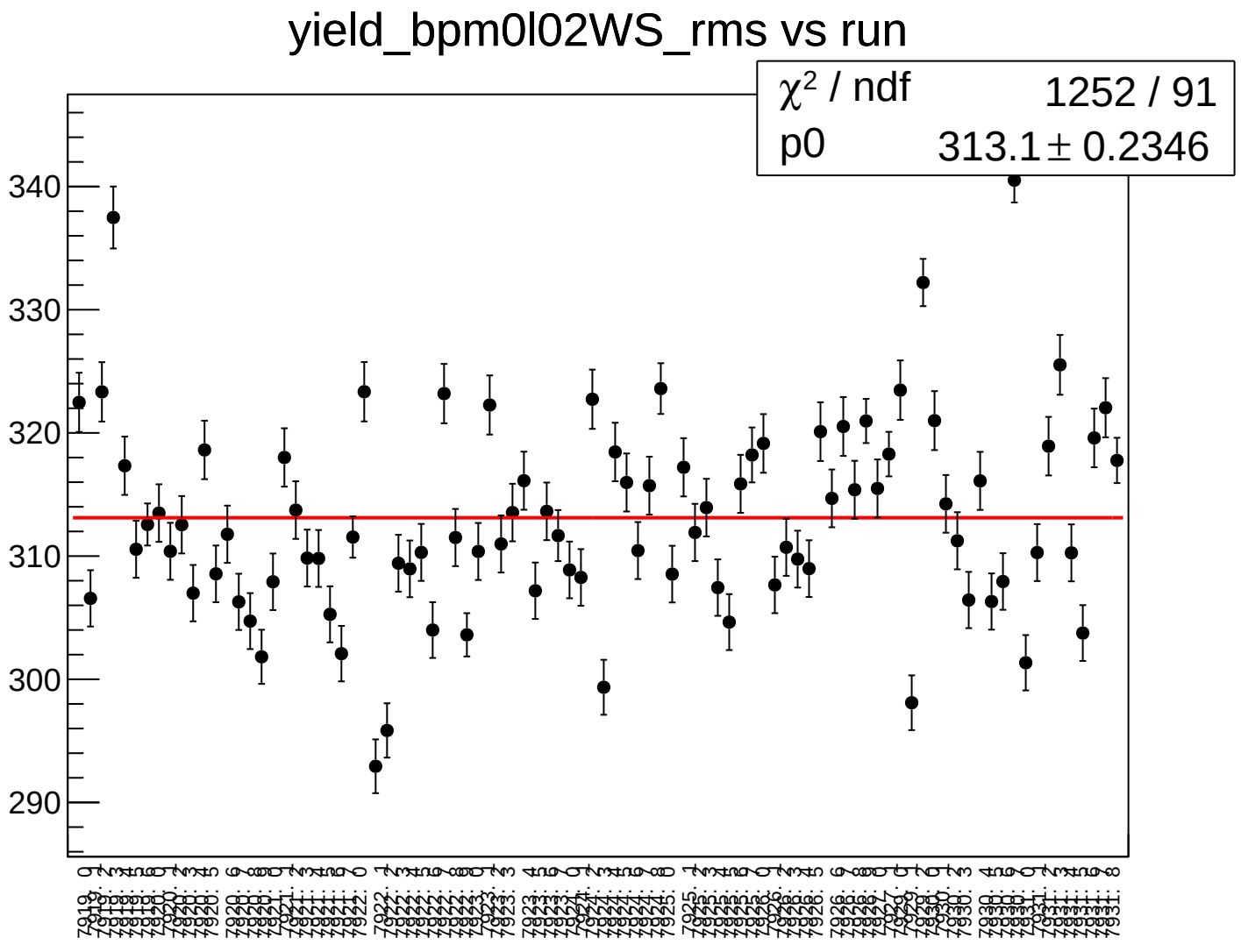

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 7.211e+04 / 91
p0 1.171e+05 ± 0.2309
117.2
117.15
117.1
117.05
117
116.95
116.9
pull
Entries 92
Mean −0.8182
Std Dev 88.36
60
40
20
0
−20
−40
−60

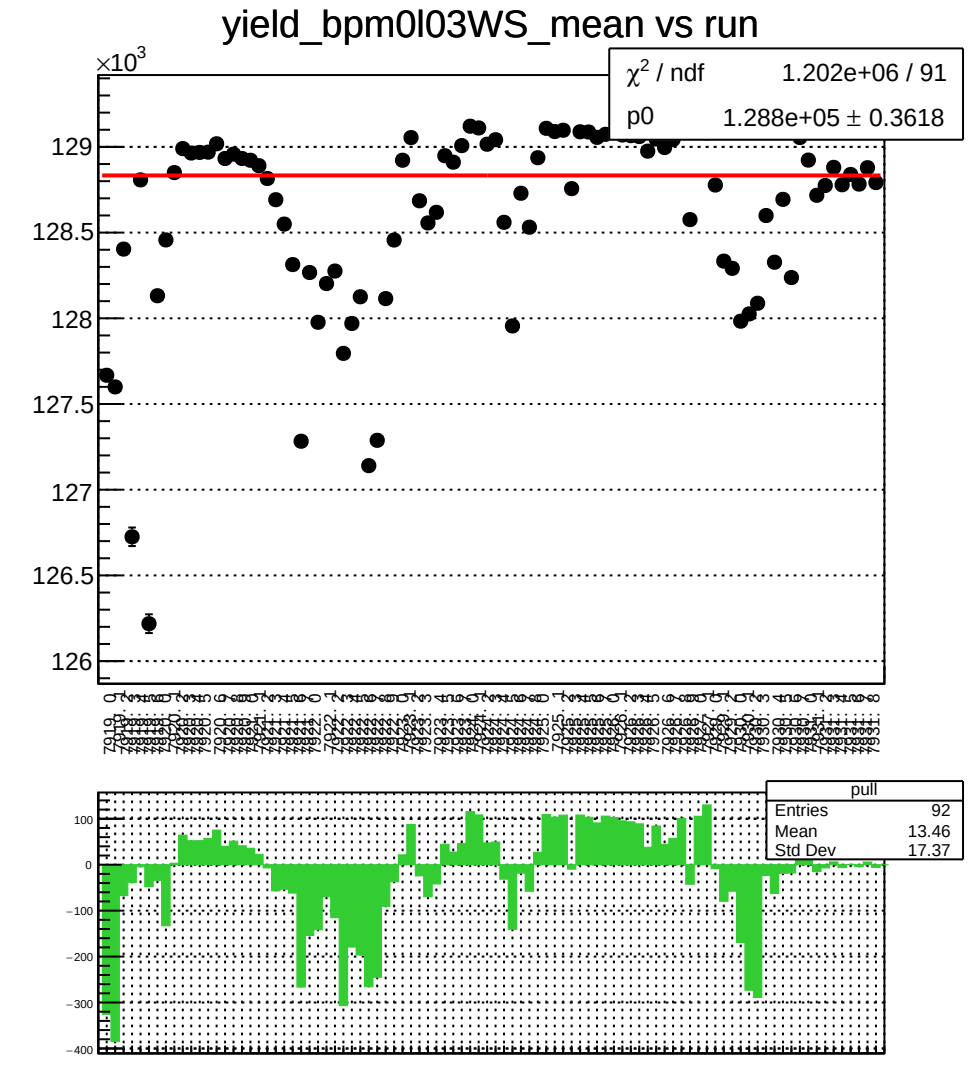

pull1D
Entries 92
Mean 1.157
Std Dev 3.778
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

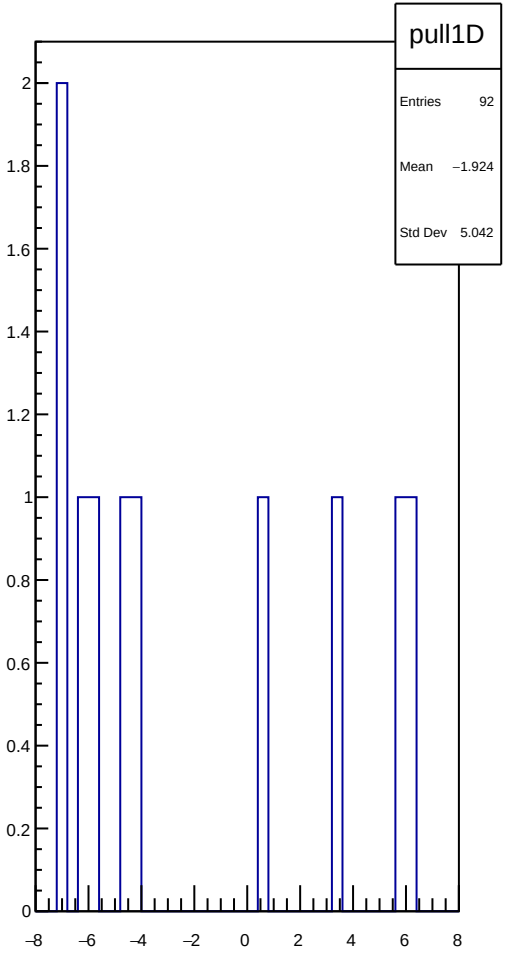

yield_bpm0l01WS_rms vs run
χ² / ndf 1455 / 91
p0 217.9 ± 0.1633
240
235
230
225
220
215
210
205
200

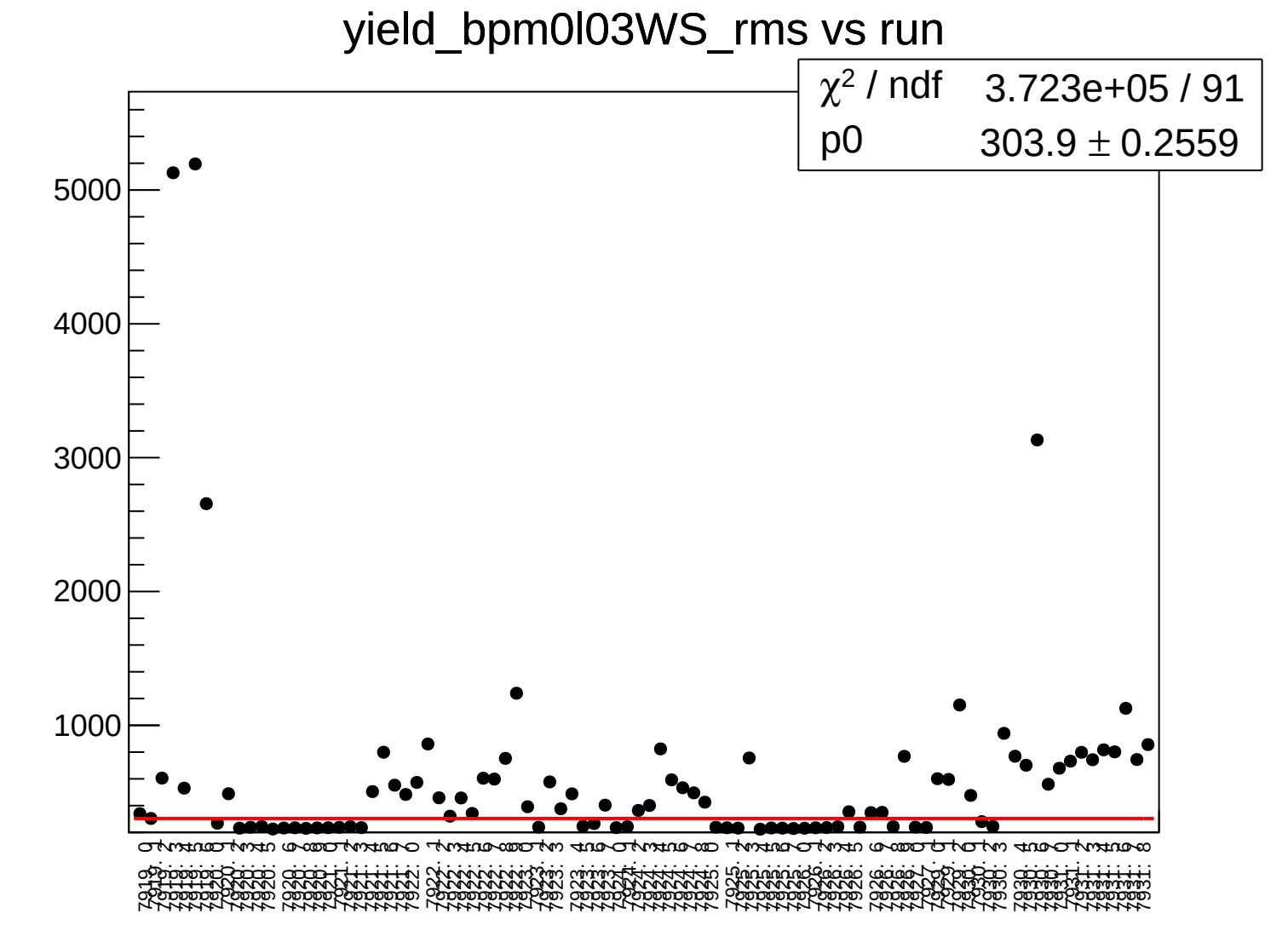

yield_bpm0l02WS_mean vs run
×10^3
χ² / ndf 2.719e+05 / 91
p0 1.374e+05 ± 0.3317
137.6
137.4
137.2
137
136.8
pull
Entries 92
Mean 45.42
Std Dev 0
100
50
0
−50
−100
−150
−200

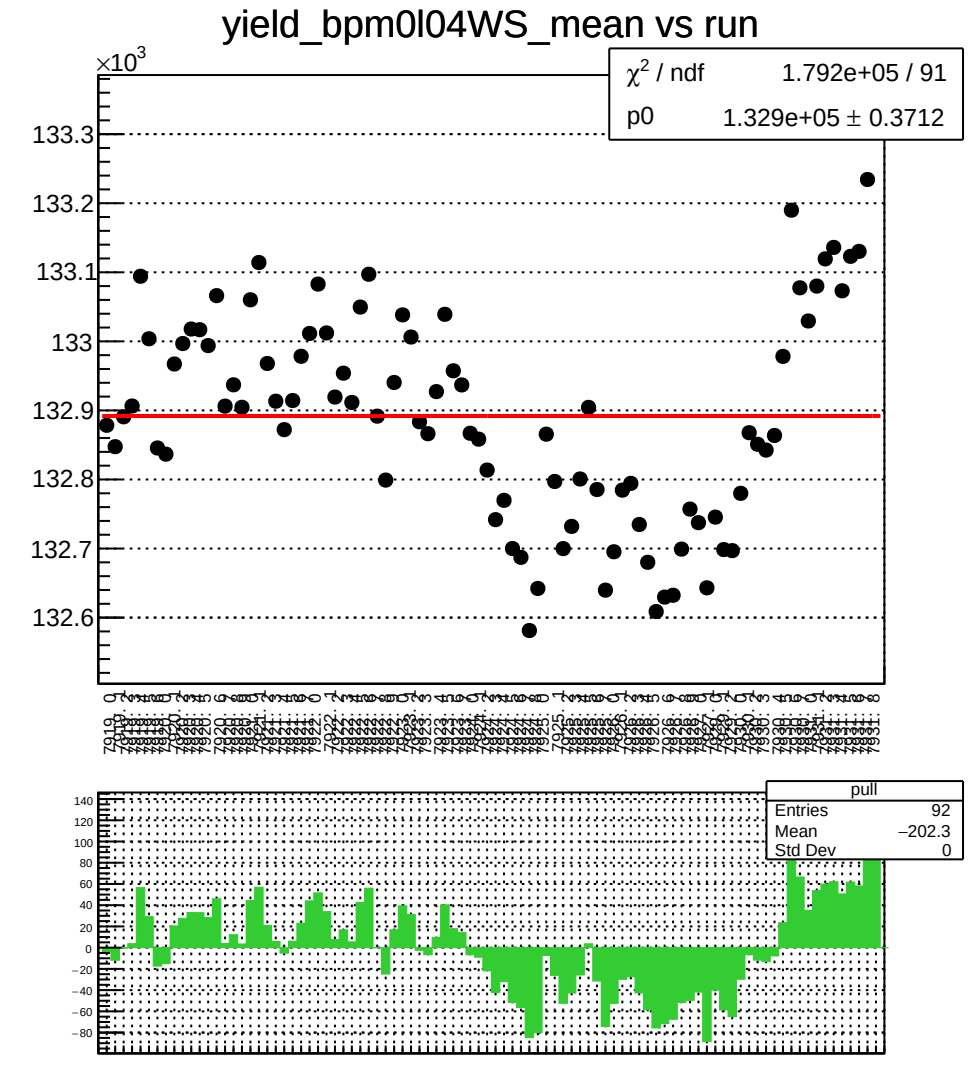

pull1D
Entries 92
Mean −0.06001
Std Dev 5.394
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

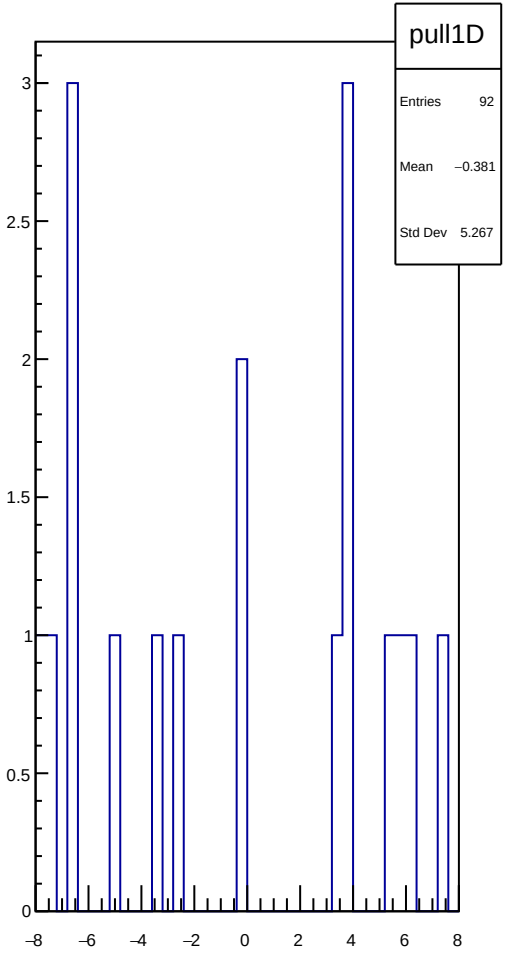

yield_bpm0l02WS_rms vs run
χ² / ndf 1252 / 91
p0 313.1 ± 0.2346
340
330
320
310
300
290

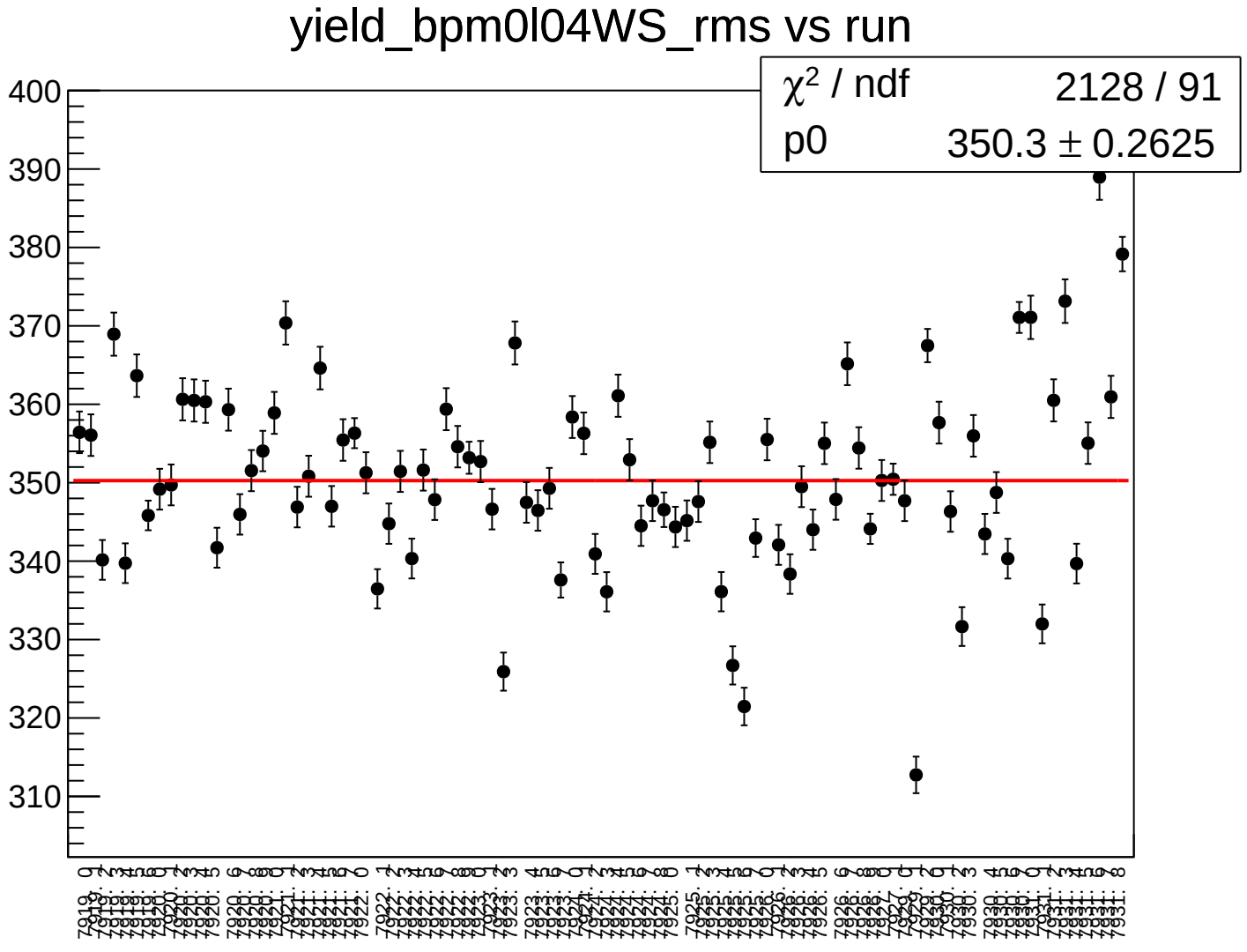

yield_bpm0l03WS_mean vs run
×10^3
χ² / ndf 1.202e+06 / 91
p0 1.288e+05 ± 0.3618
129
128.5
128
127.5
127
126.5
126
pull
Entries 92
Mean 13.46
Std Dev 17.37
100
0
−100
−200
−300
−400

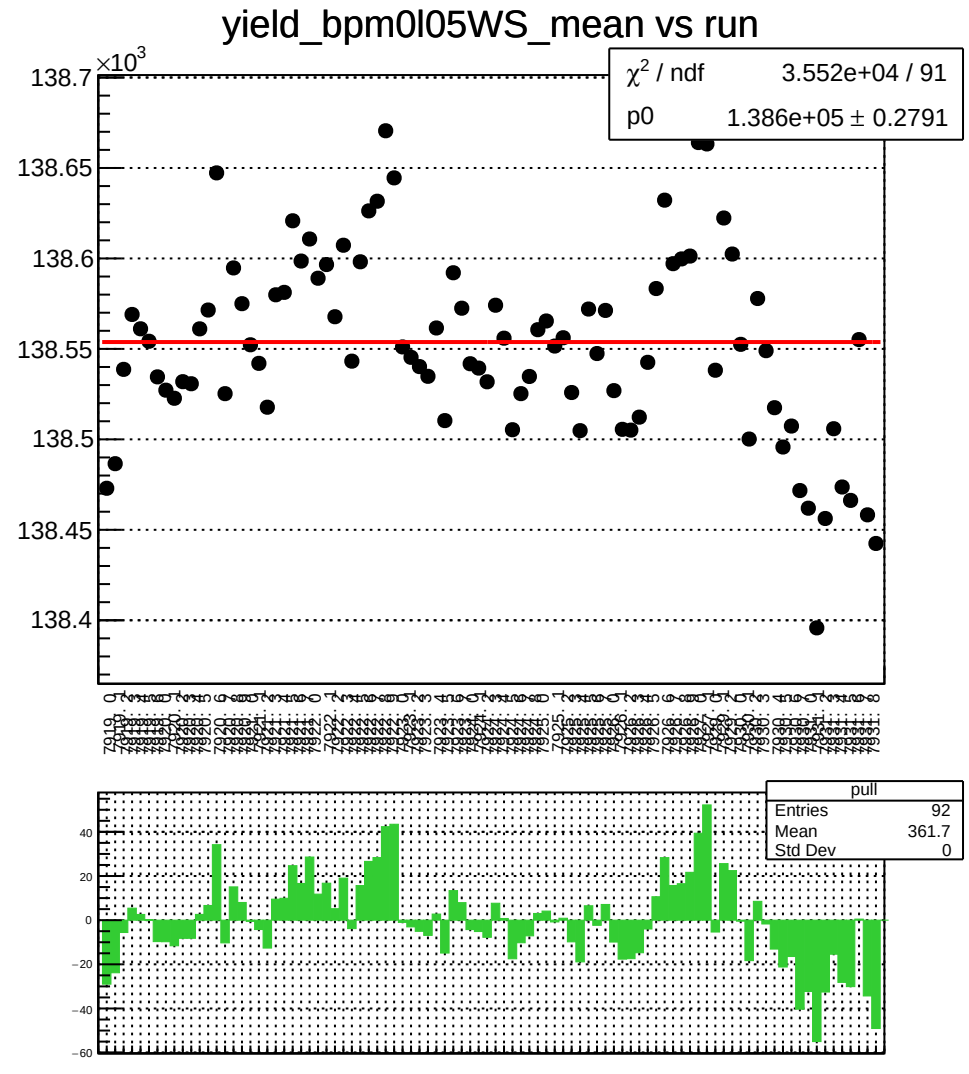

pull1D
Entries 92
Mean −1.924
Std Dev 5.042
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

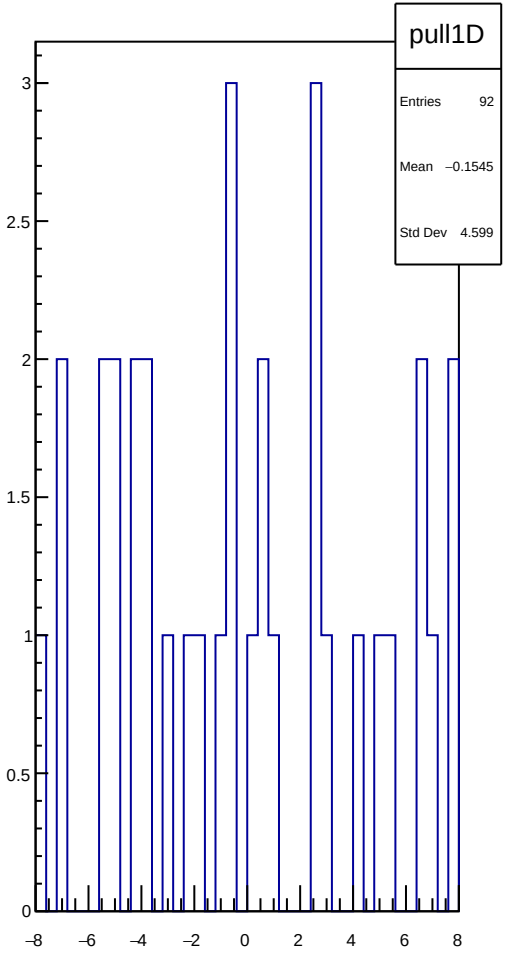

yield_bpm0l03WS_rms vs run
χ^2 / ndf 3.723e+05 / 91
p0 303.9 ± 0.2559
5000
4000
3000
2000
1000

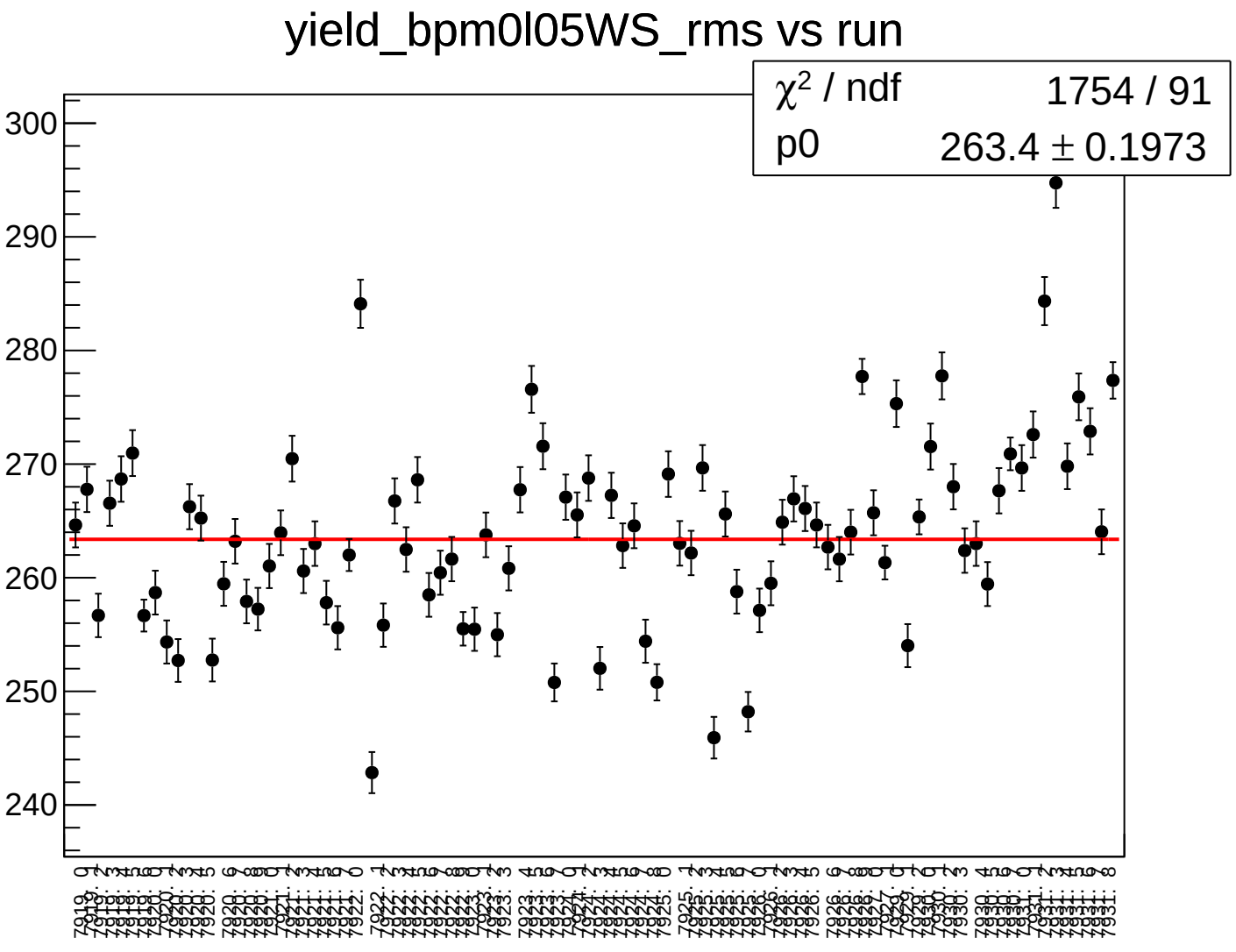

yield_bpm0l04WS_mean vs run
×10^3
χ² / ndf 1.792e+05 / 91
p0 1.329e+05 ± 0.3712
133.3
133.2
133.1
133
132.9
132.8
132.7
132.6
pull
Entries 92
Mean −202.3
Std Dev 0
140
120
100
80
60
40
20
0
−20
−40
−60
−80

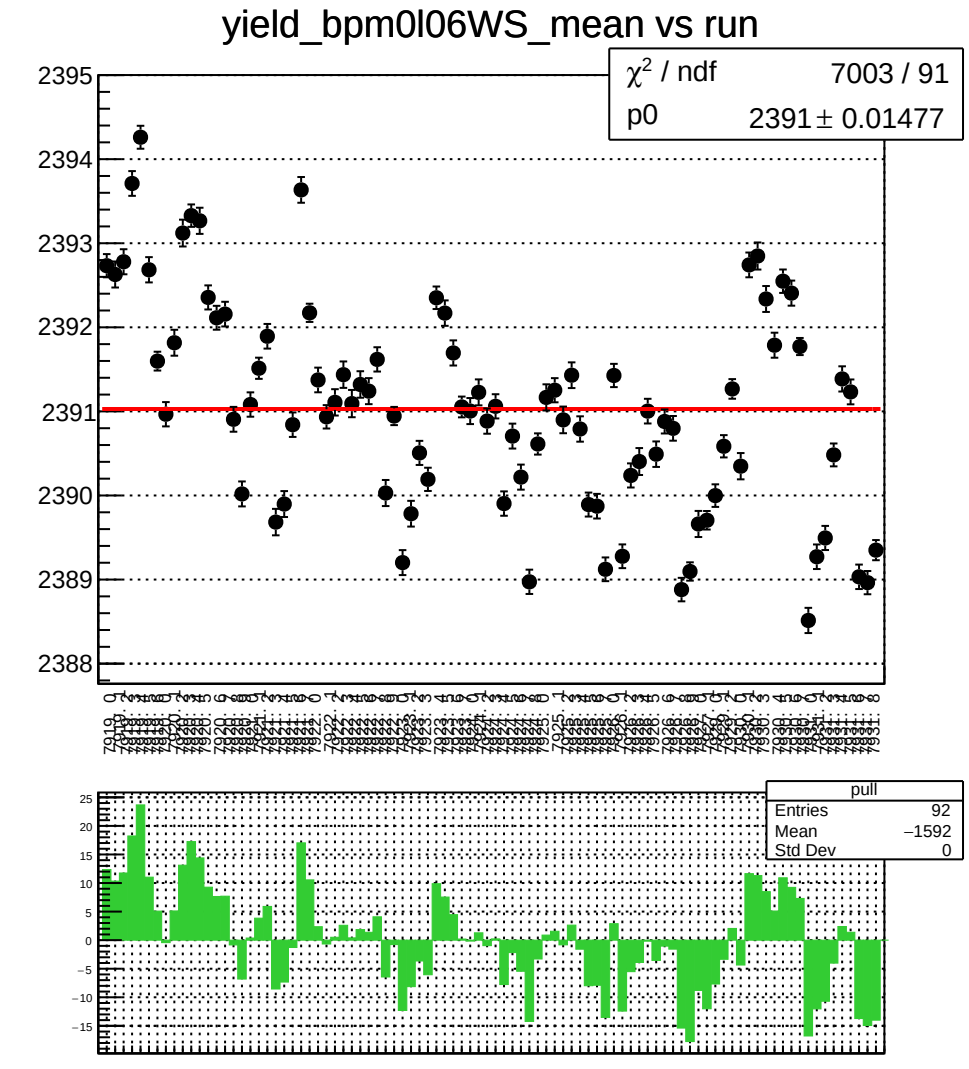

pull1D
Entries 92
Mean −0.381
Std Dev 5.267
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

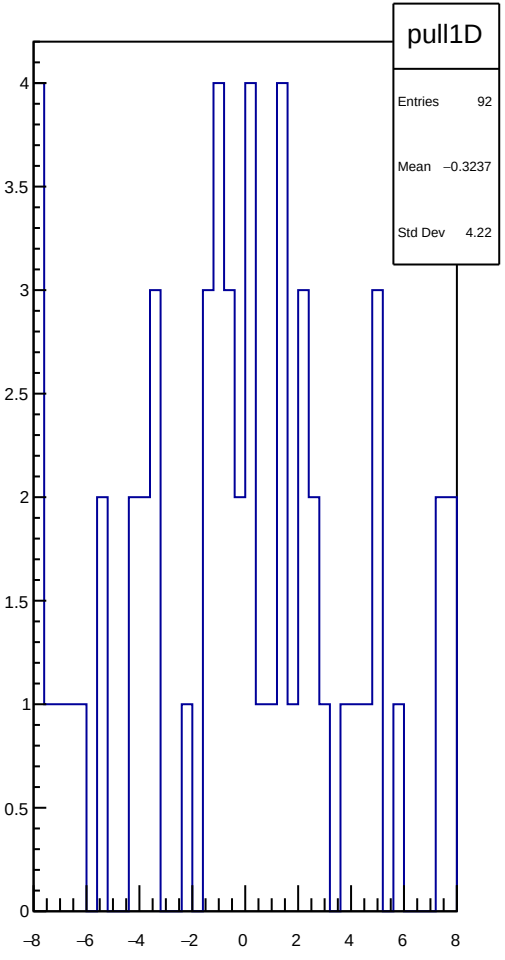

yield_bpm0l04WS_rms vs run
χ² / ndf 2128 / 91
p0 350.3 ± 0.2625
400
390
380
370
360
350
340
330
320
310

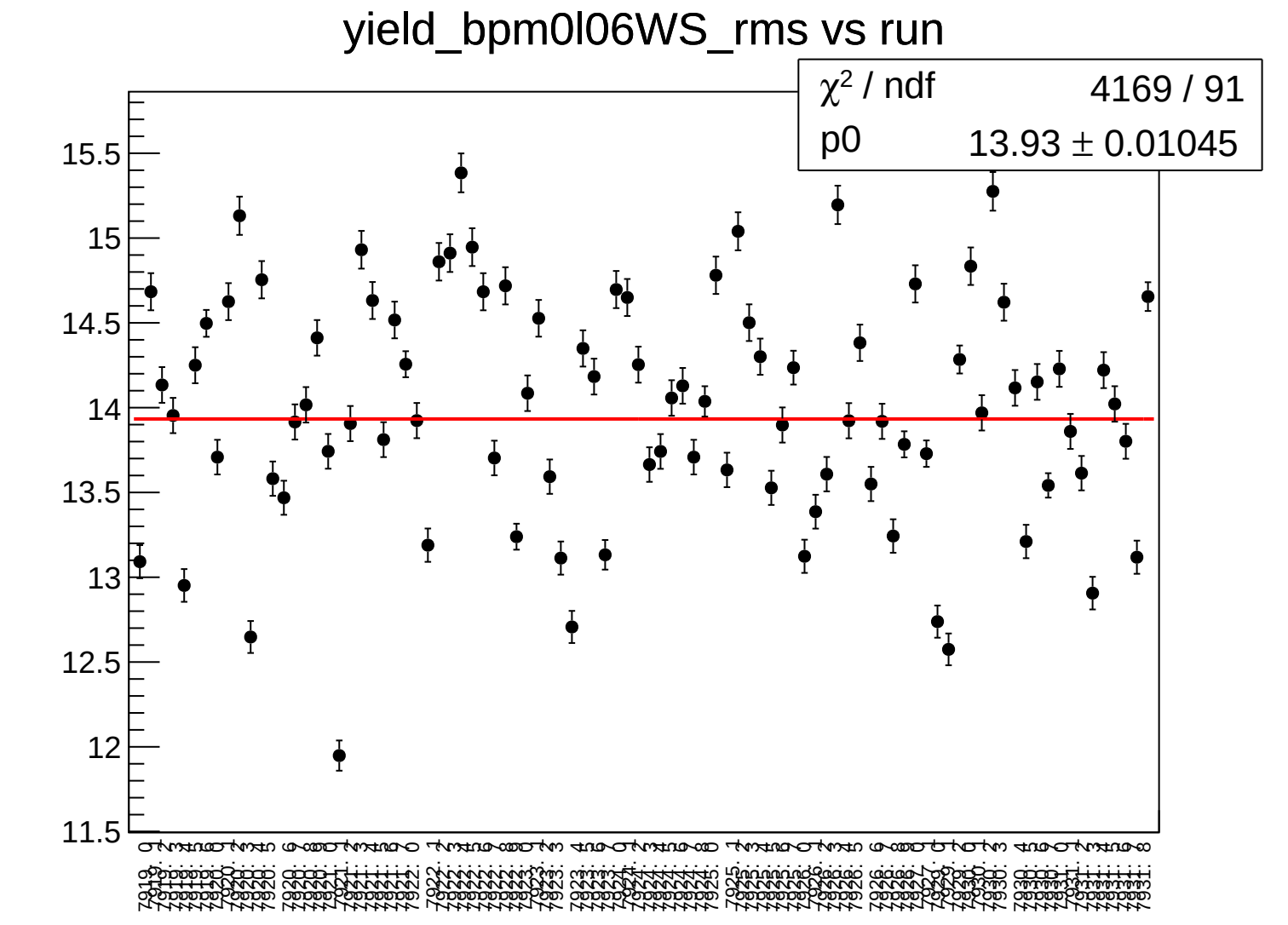

yield_bpm0l05WS_mean vs run
χ² / ndf 3.552e+04 / 91
p0 1.386e+05 ± 0.2791
×10³
138.7
138.65
138.6
138.55
138.5
138.45
138.4
pull
Entries 92
Mean 361.7
Std Dev 0
40
20
0
−20
−40
−60

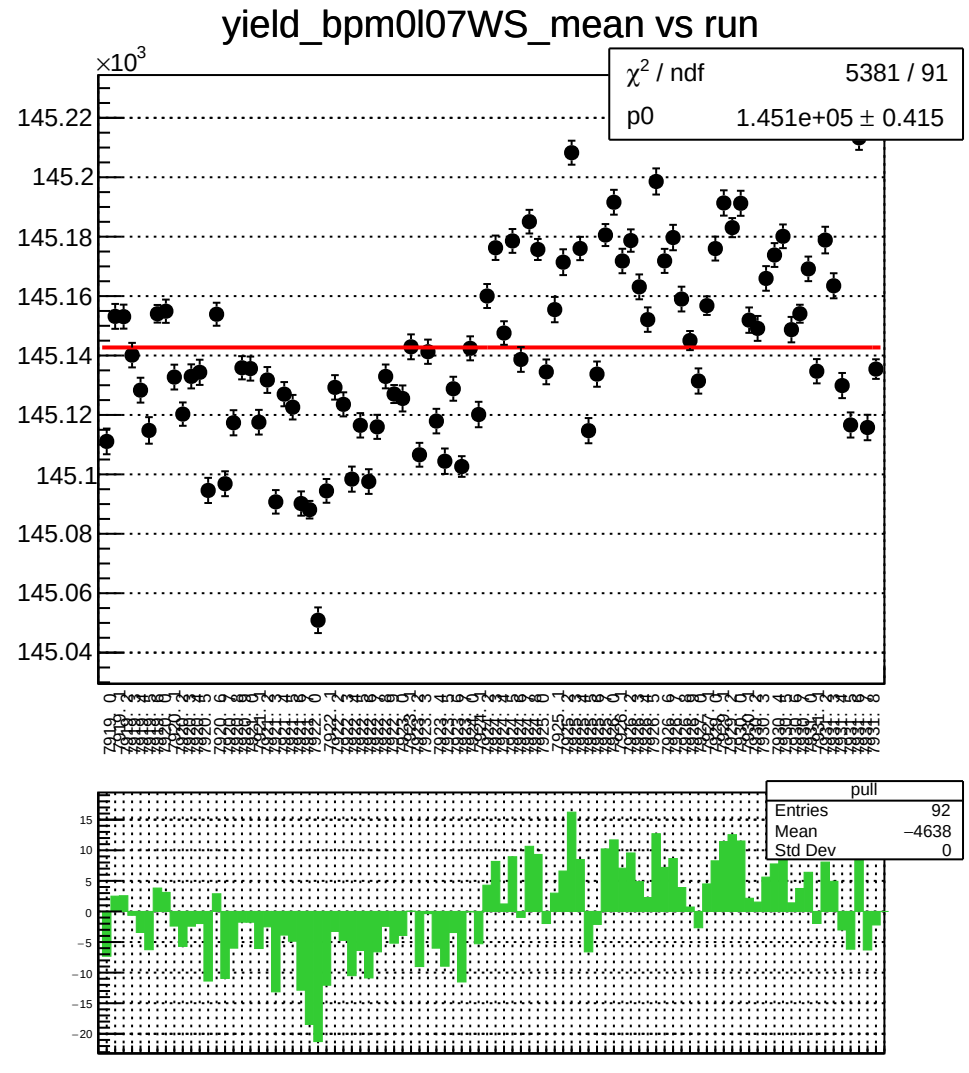

pull1D
Entries 92
Mean −0.1545
Std Dev 4.599
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

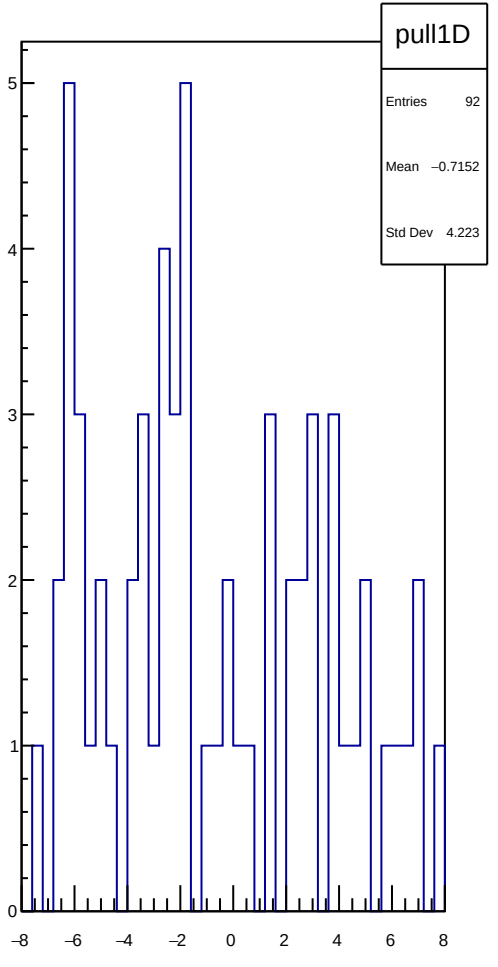

yield_bpm0l05WS_rms vs run
χ² / ndf 1754 / 91
p0 263.4 ± 0.1973
300
290
280
270
260
250
240

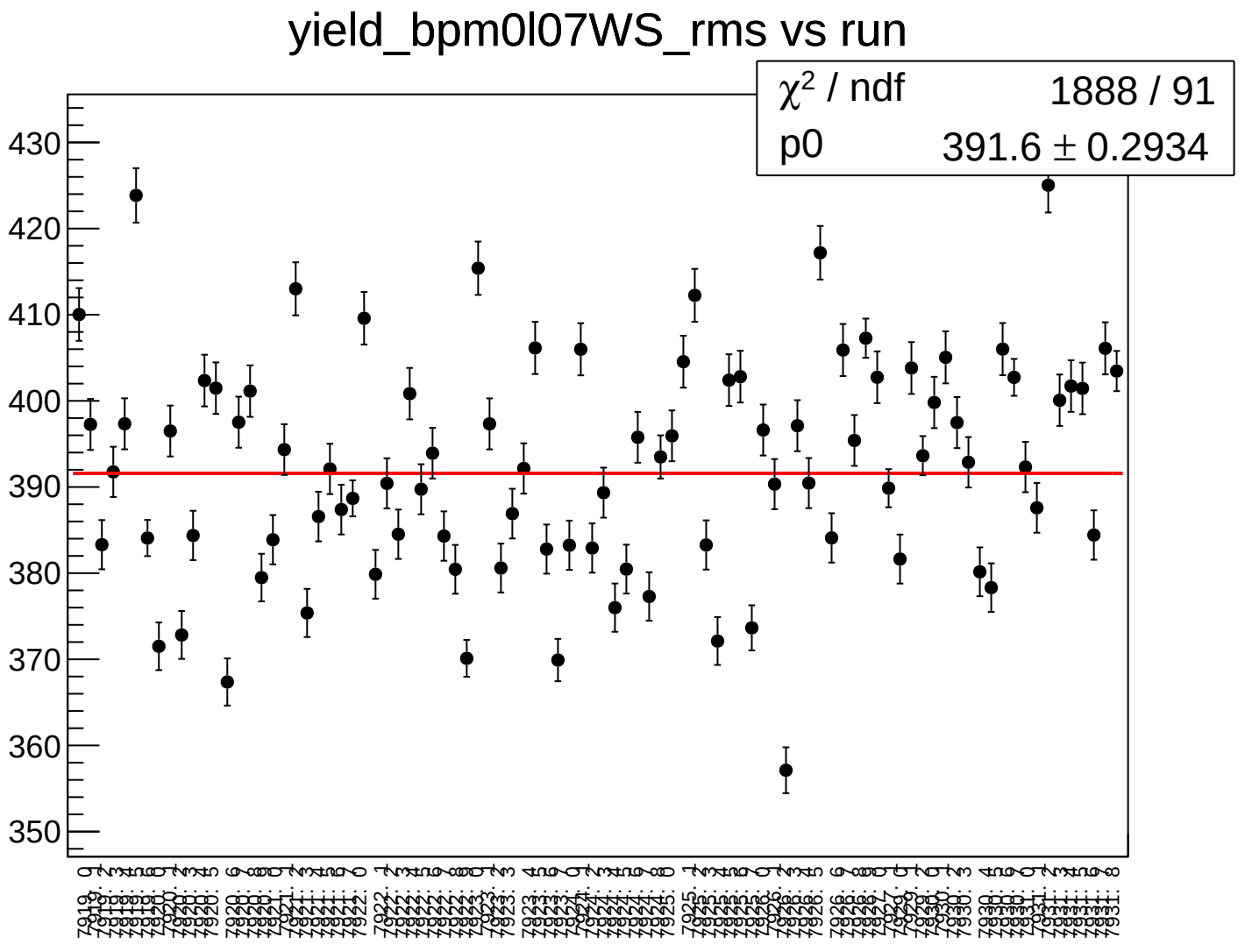

yield_bpm0l06WS_mean vs run
χ² / ndf 7003 / 91
p0 2391 ± 0.01477
pull
Entries 92
Mean −1592
Std Dev 0

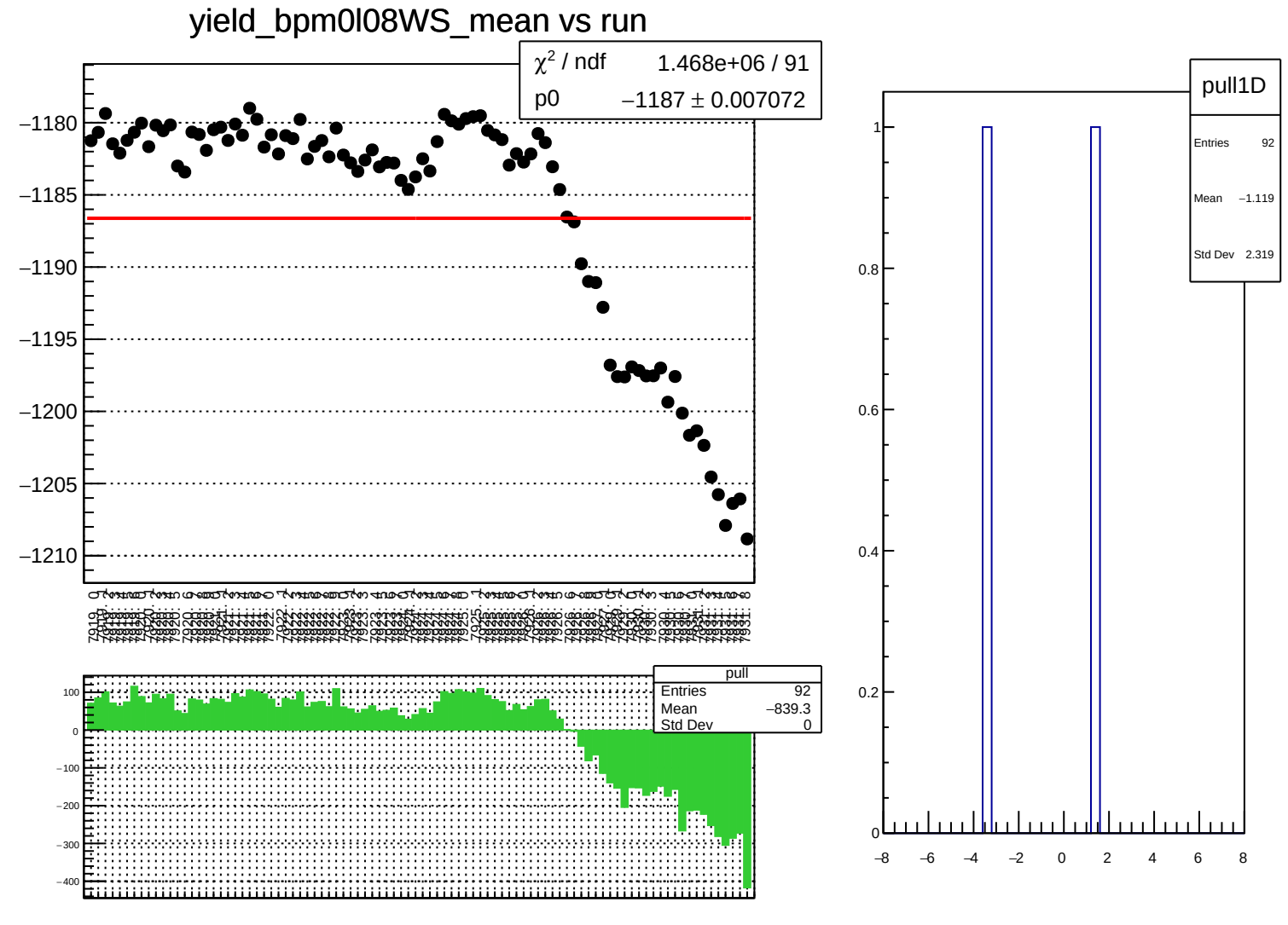

pull1D
Entries 92
Mean −0.3237
Std Dev 4.22

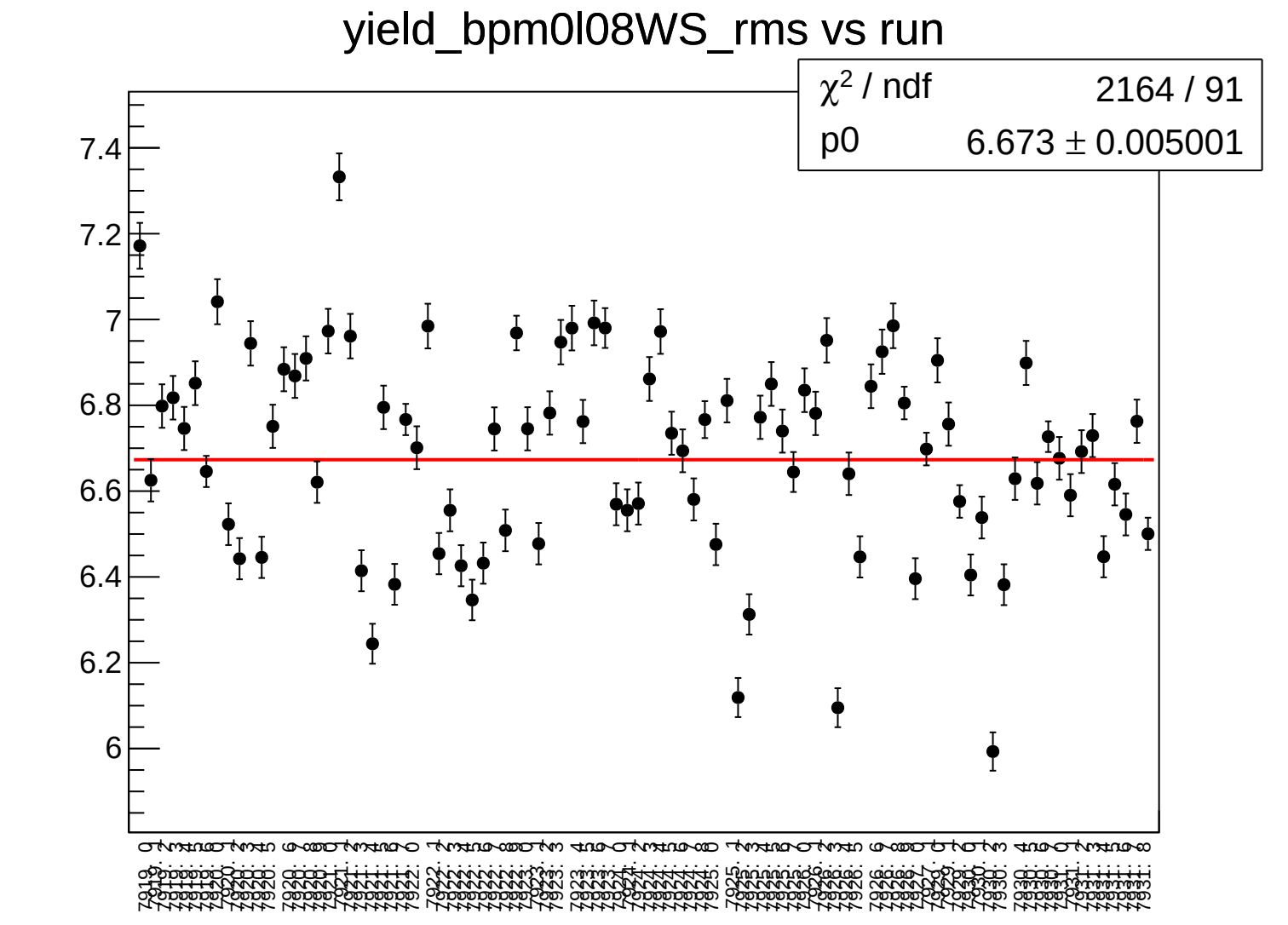

yield_bpm0l06WS_rms vs run
χ² / ndf 4169 / 91
p0 13.93 ± 0.01045
15.5
15
14.5
14
13.5
13
12.5
12
11.5

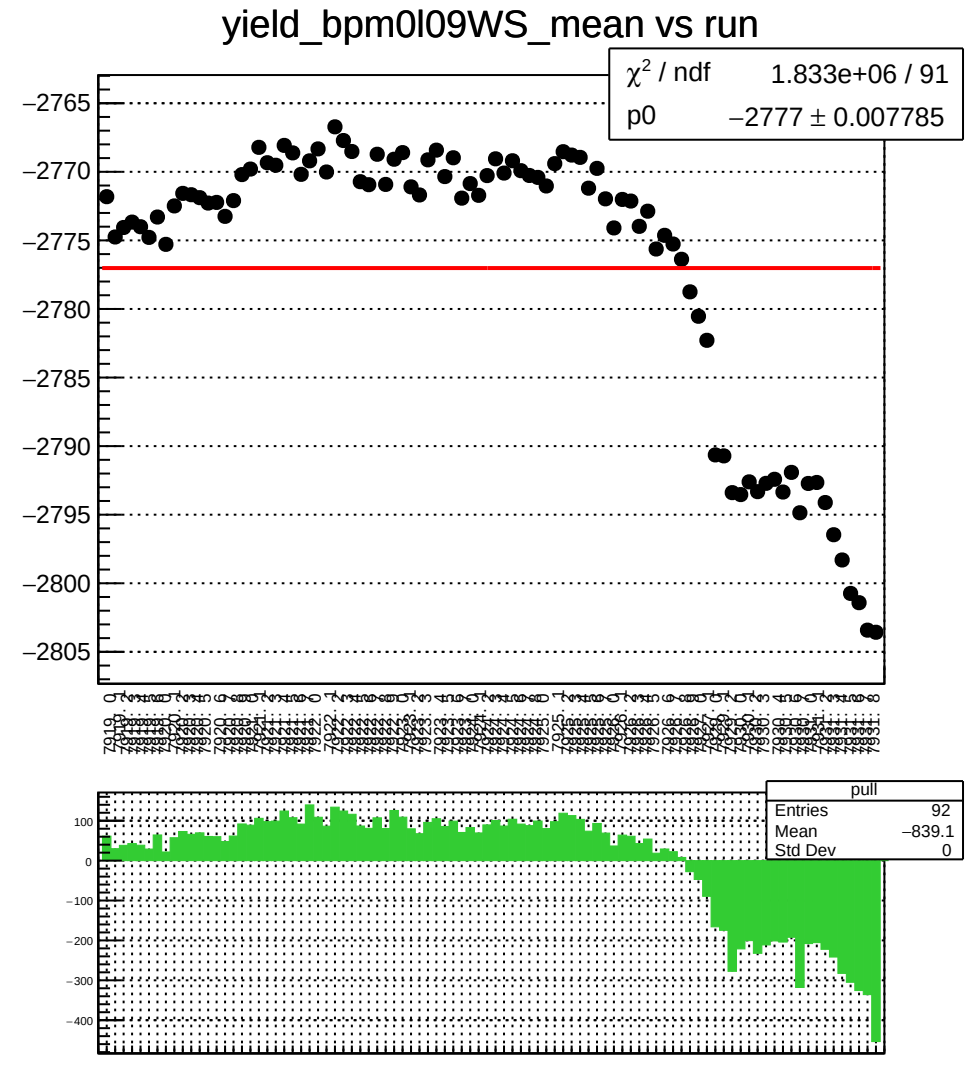

yield_bpm0l07WS_mean vs run
×10^3
χ² / ndf 5381 / 91
p0 1.451e+05 ± 0.415
145.22
145.2
145.18
145.16
145.14
145.12
145.1
145.08
145.06
145.04
pull
Entries 92
Mean −4638
Std Dev 0
15
10
5
0
−5
−10
−15
−20

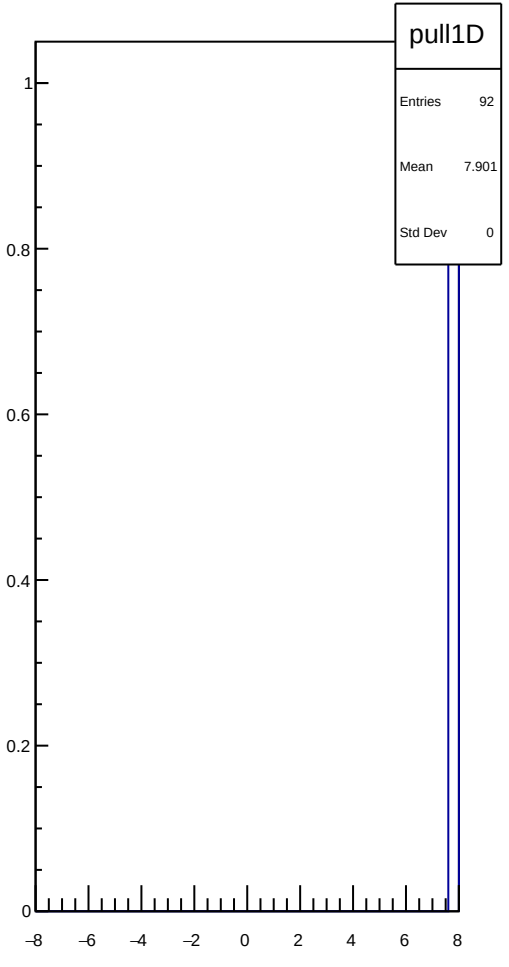

pull1D
Entries 92
Mean −0.7152
Std Dev 4.223
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

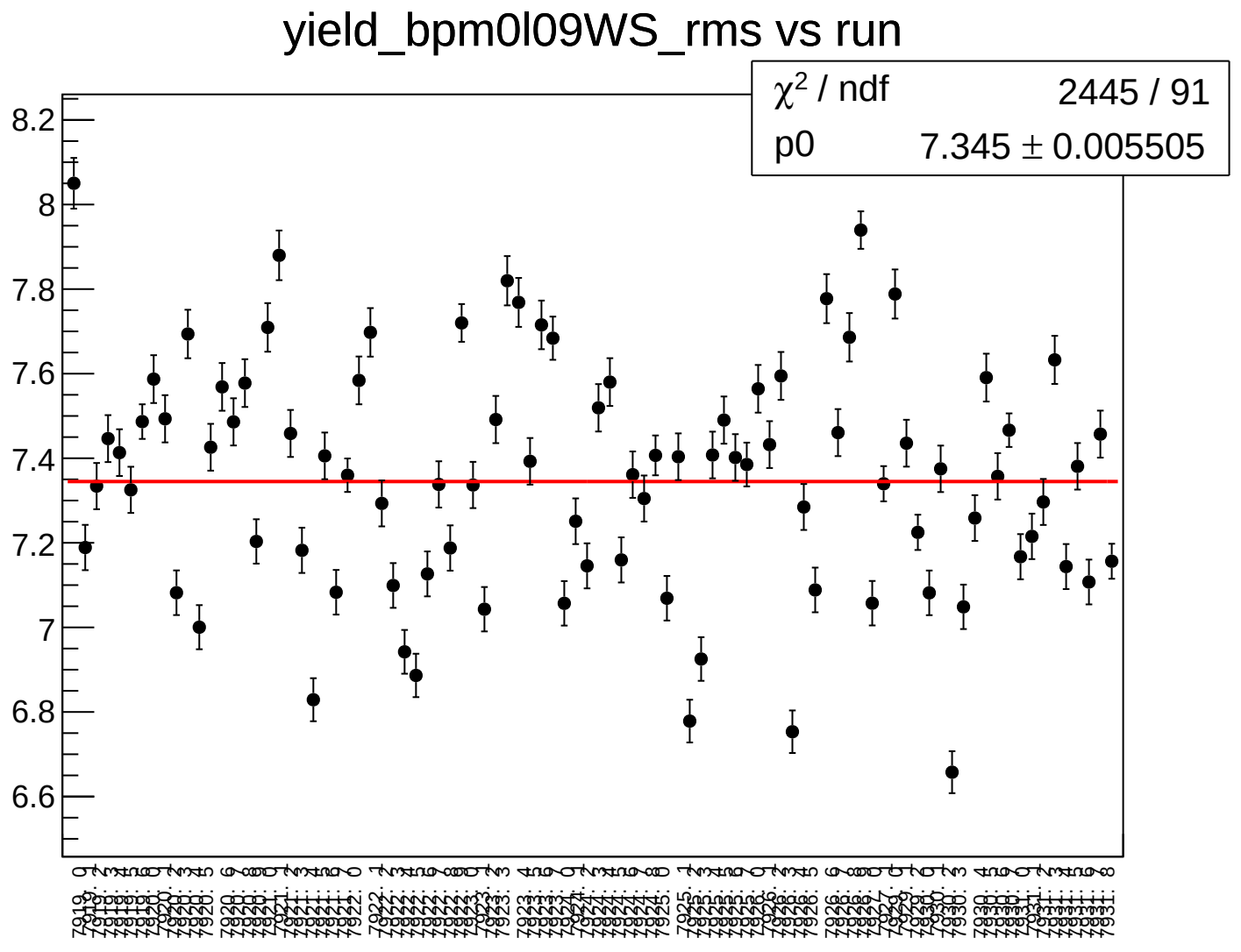

yield_bpm0l07WS_rms vs run
χ² / ndf 1888 / 91
p0 391.6 ± 0.2934
430
420
410
400
390
380
370
360
350

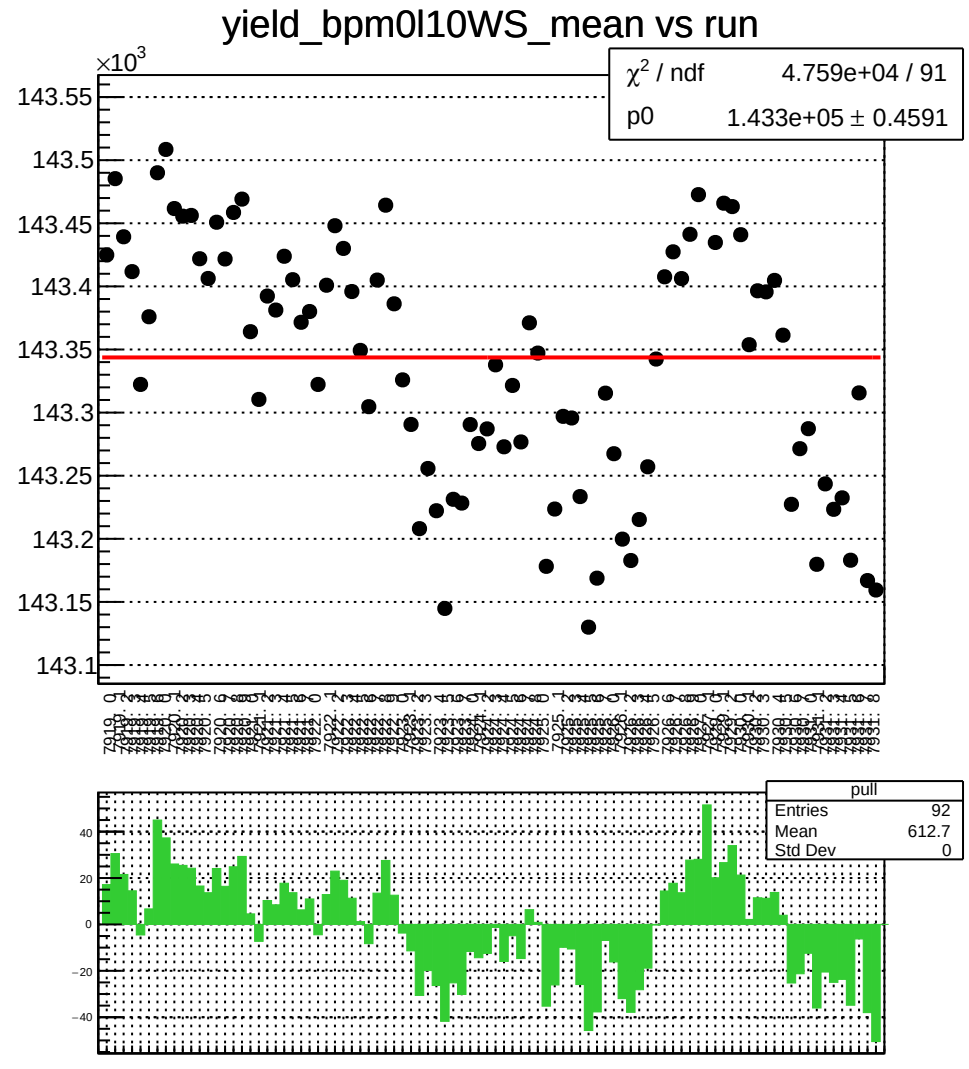

yield_bpm0l08WS_mean vs run
χ² / ndf 1.468e+06 / 91
p0 −1187 ± 0.007072
−1180
−1185
−1190
−1195
−1200
−1205
−1210
pull
Entries 92
Mean −839.3
Std Dev 0
100
0
−100
−200
−300
−400
pull1D
Entries 92
Mean −1.119
Std Dev 2.319
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

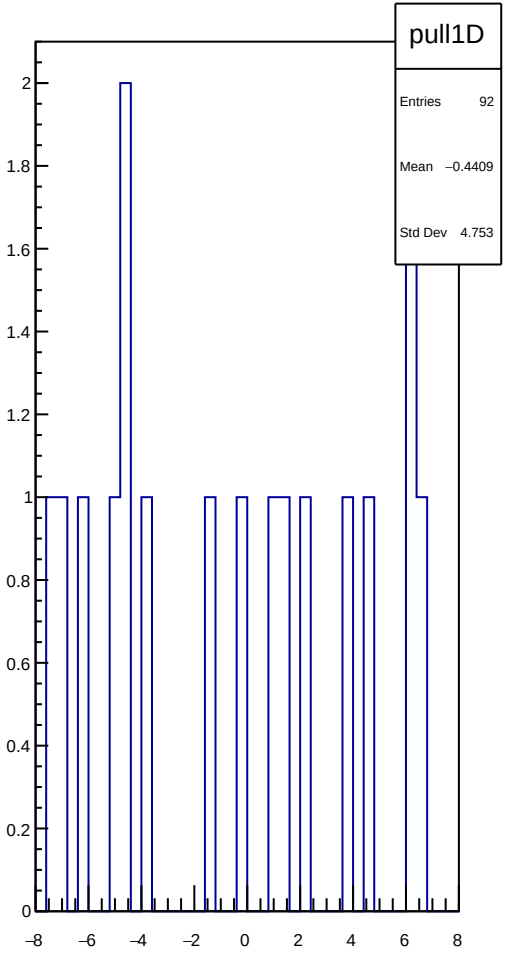

yield_bpm0l08WS_rms vs run
χ² / ndf 2164 / 91
p0 6.673 ± 0.005001
7.4
7.2
7
6.8
6.6
6.4
6.2
6

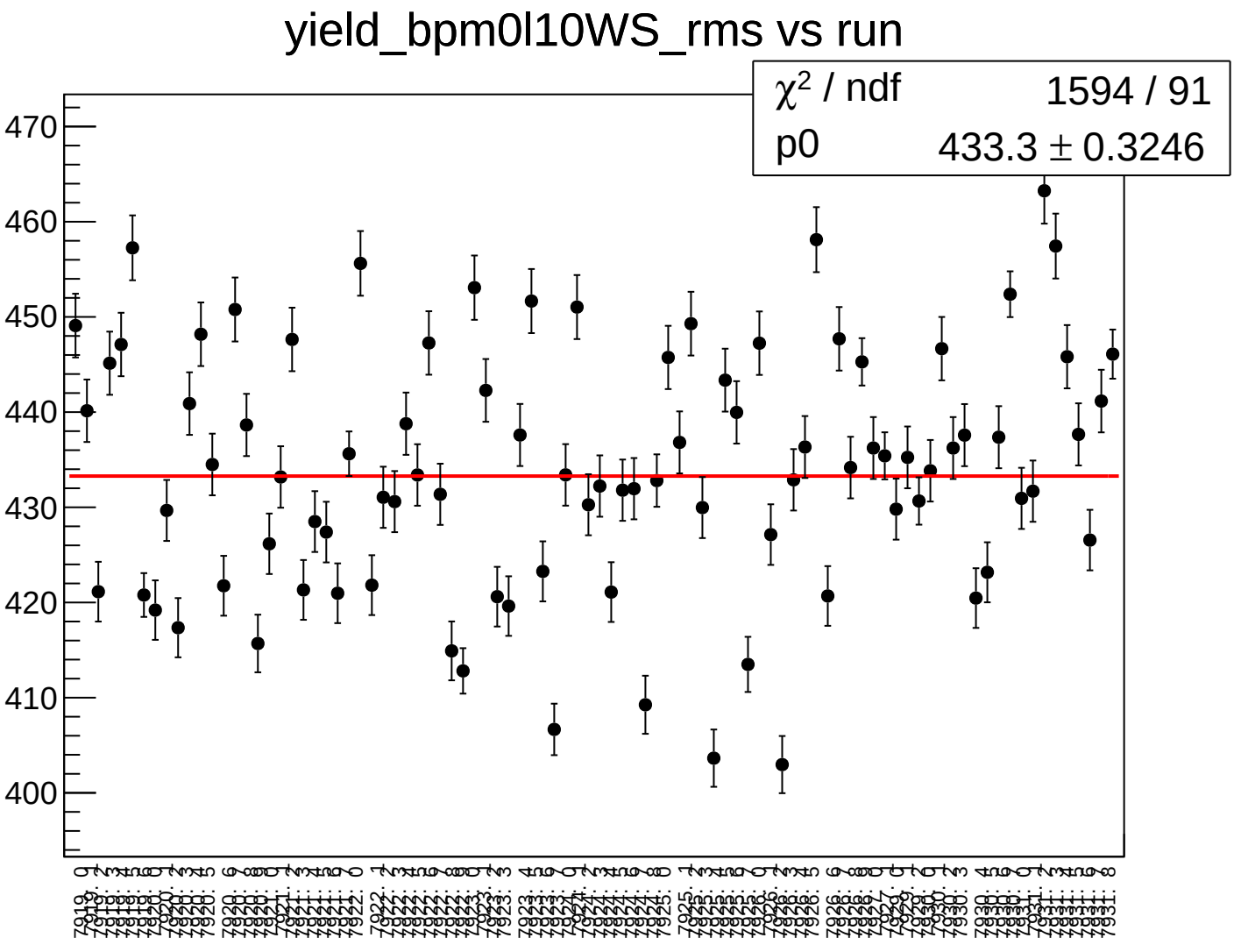

yield_bpm0l09WS_mean vs run
χ² / ndf 1.833e+06 / 91
p0 −2777 ± 0.007785
−2765
−2770
−2775
−2780
−2785
−2790
−2795
−2800
−2805
pull
Entries 92
Mean −839.1
Std Dev 0
100
0
−100
−200
−300
−400

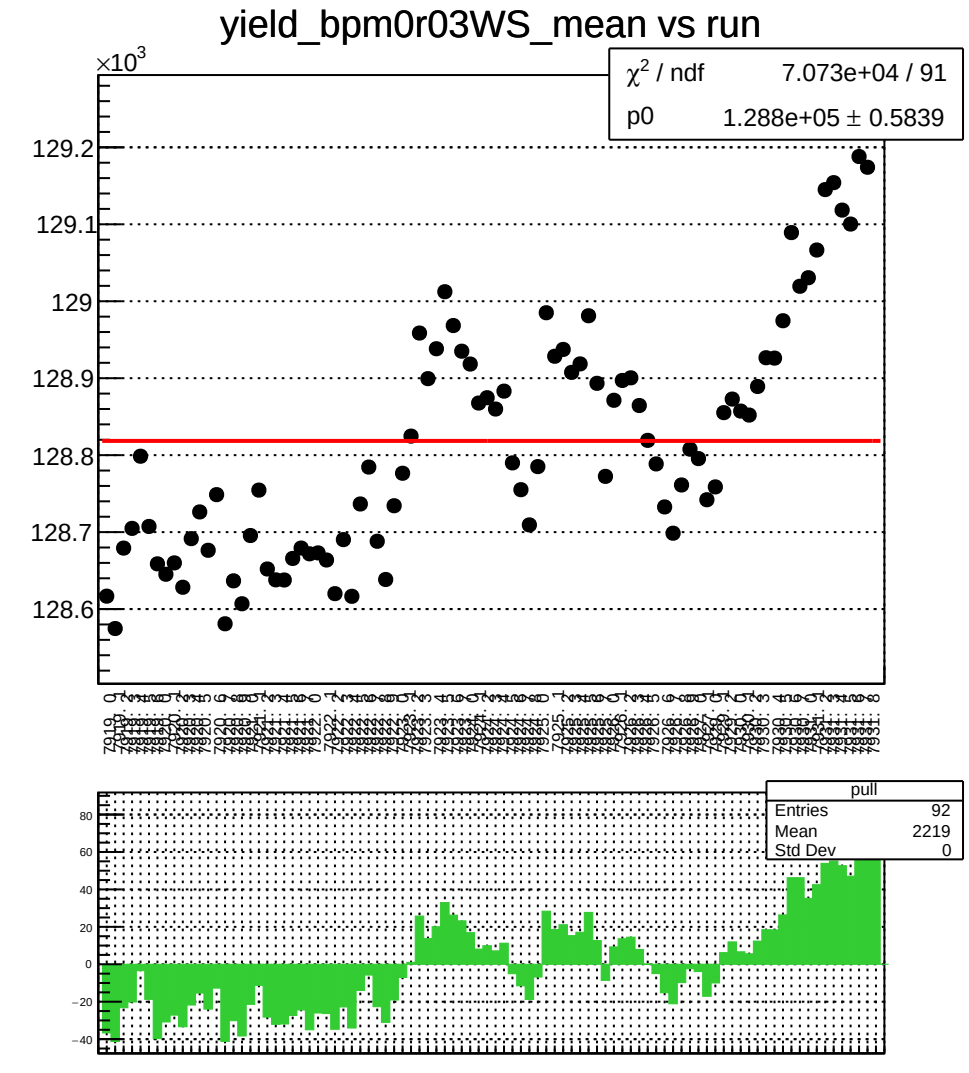

pull1D
Entries 92
Mean 7.901
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

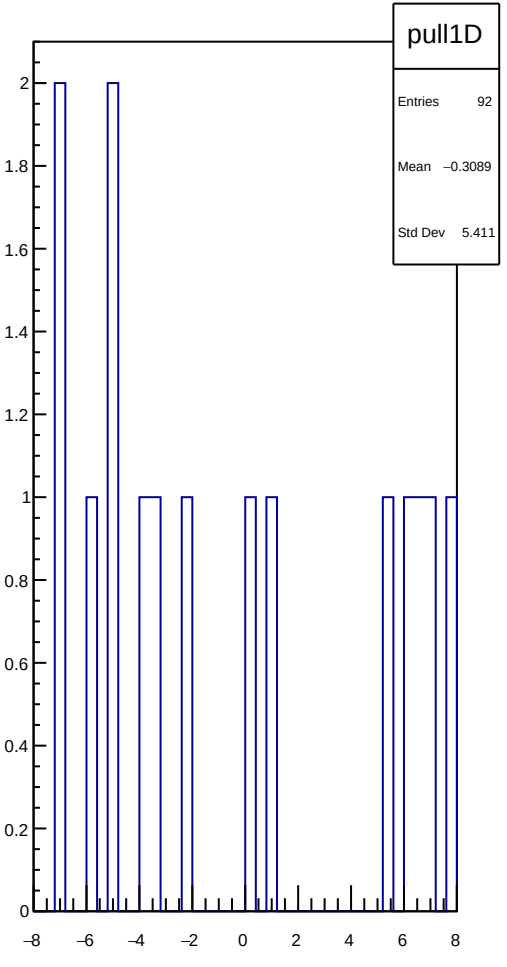

yield_bpm0l09WS_rms vs run
χ² / ndf 2445 / 91
p0 7.345 ± 0.005505
8.2
8
7.8
7.6
7.4
7.2
7
6.8
6.6

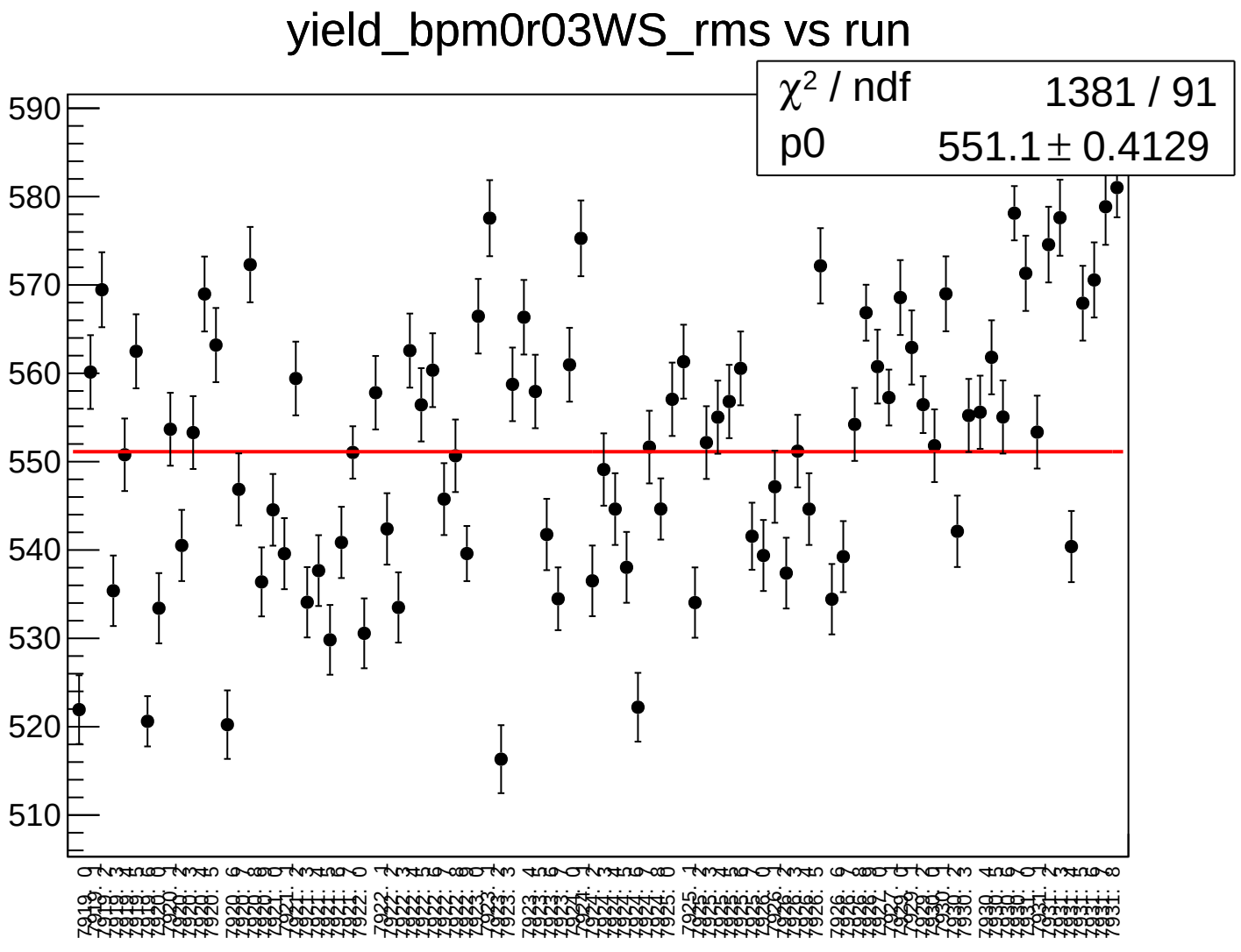

yield_bpm0l10WS_mean vs run
×10^3
χ² / ndf 4.759e+04 / 91
p0 1.433e+05 ± 0.4591
143.55
143.5
143.45
143.4
143.35
143.3
143.25
143.2
143.15
143.1
pull
Entries 92
Mean 612.7
Std Dev 0
40
20
0
−20
−40

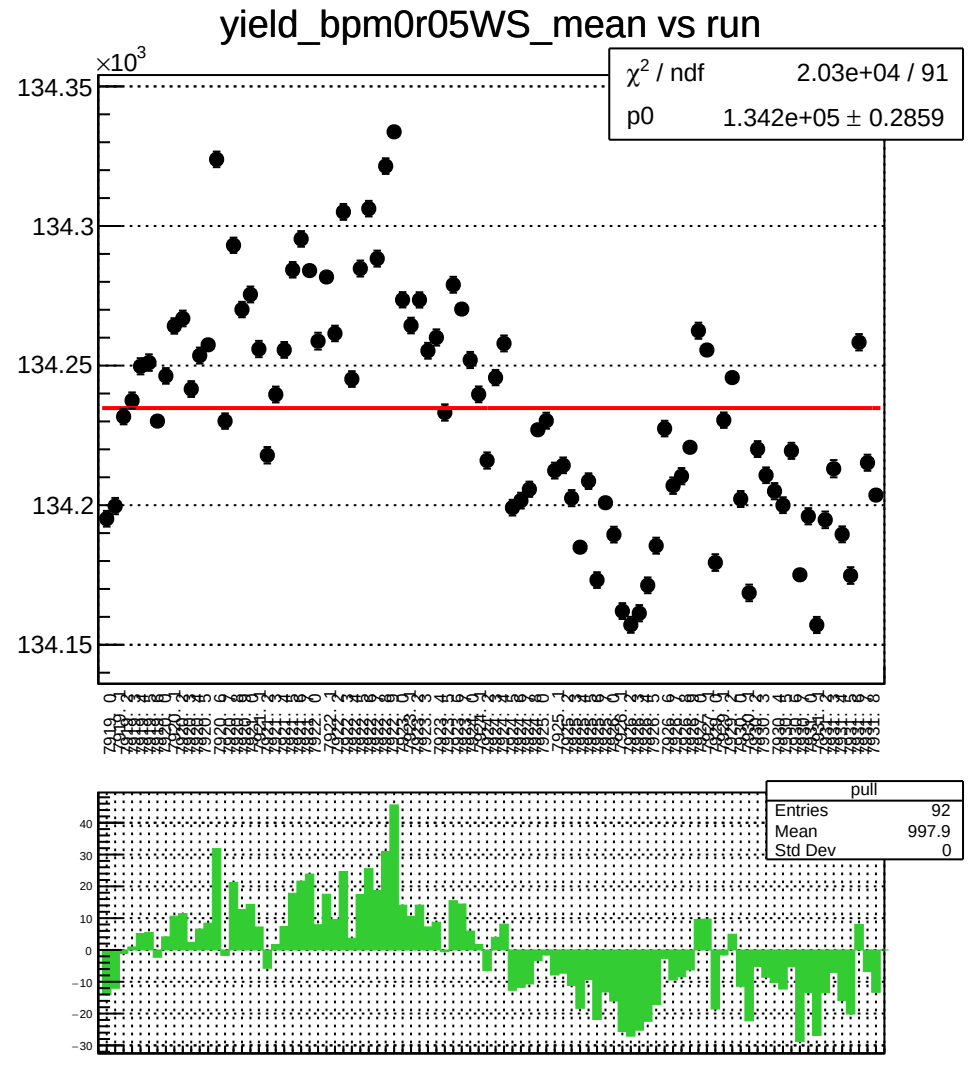

pull1D
Entries 92
Mean −0.4409
Std Dev 4.753
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

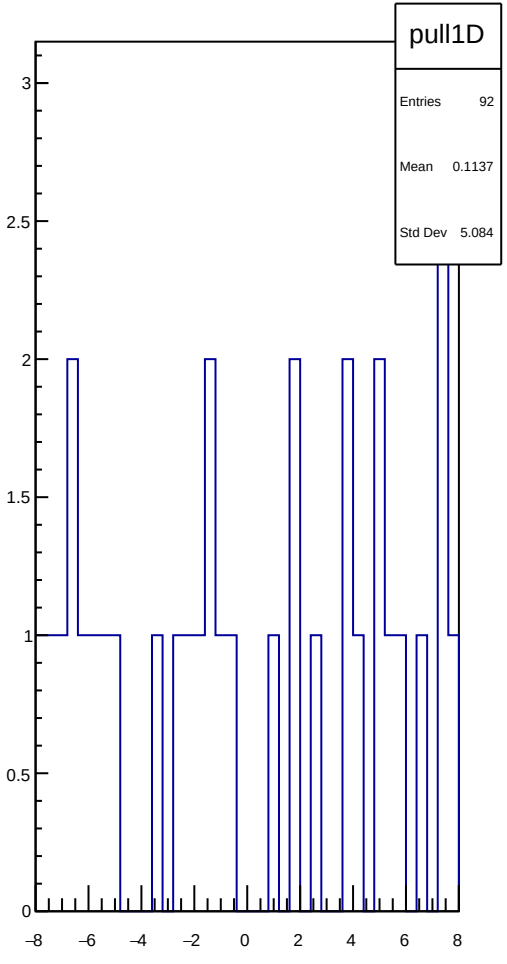

yield_bpm0l10WS_rms vs run
χ² / ndf 1594 / 91
p0 433.3 ± 0.3246
470
460
450
440
430
420
410
400

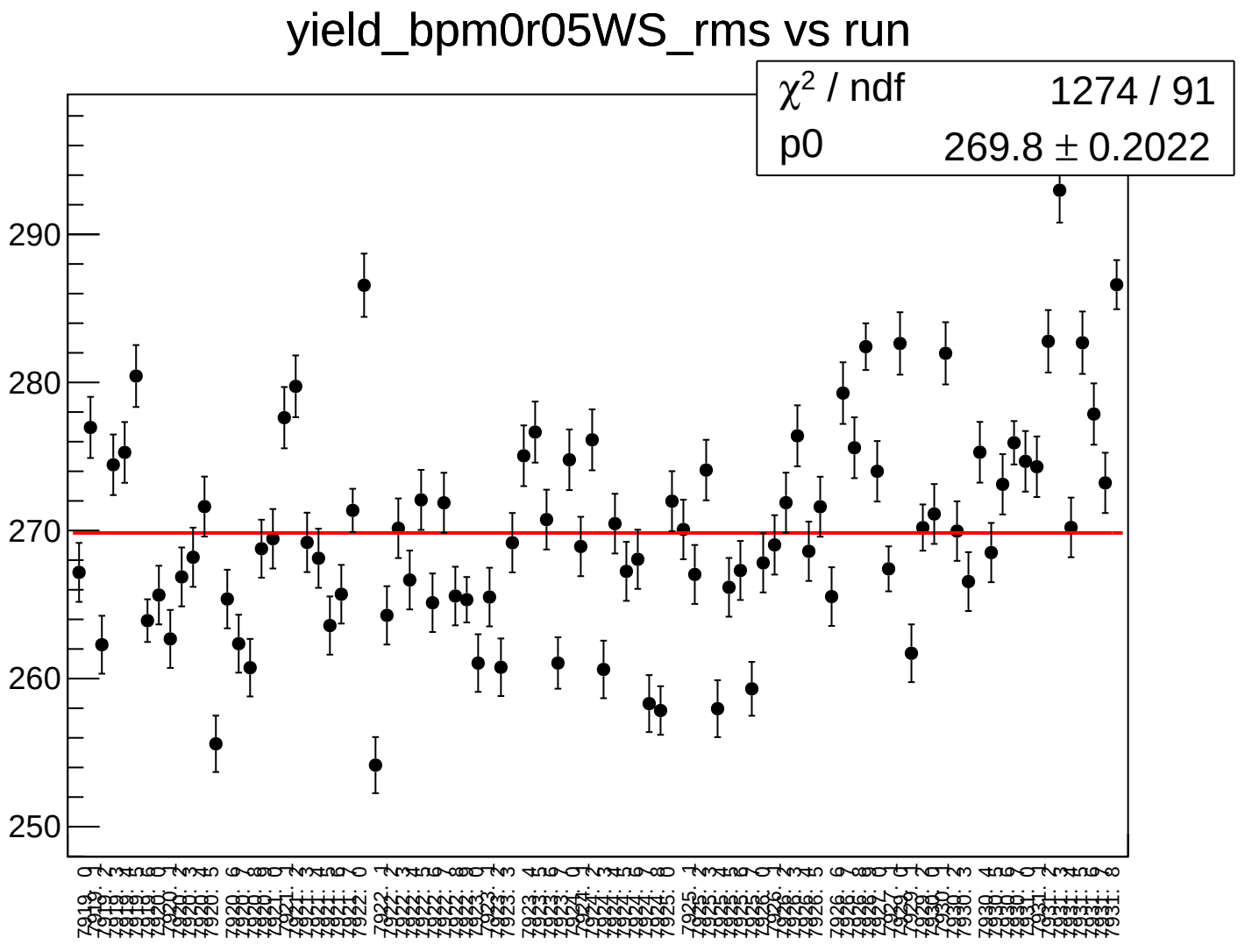

yield_bpm0r03WS_mean vs run
×10^3
χ² / ndf 7.073e+04 / 91
p0 1.288e+05 ± 0.5839
129.2
129.1
129
128.9
128.8
128.7
128.6
pull
Entries 92
Mean 2219
Std Dev 0
80
60
40
20
0
−20
−40

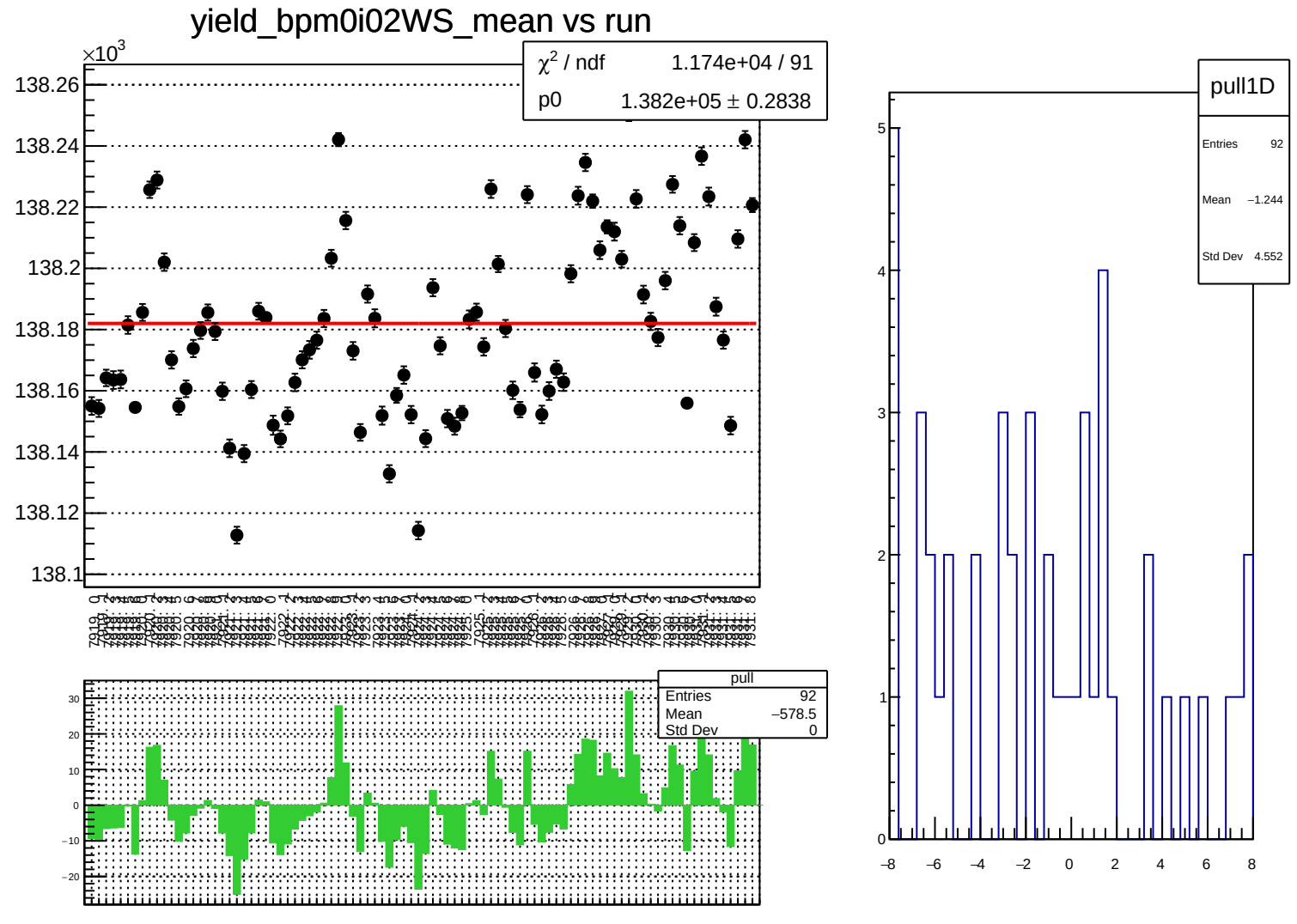

pull1D
Entries 92
Mean −0.3089
Std Dev 5.411
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

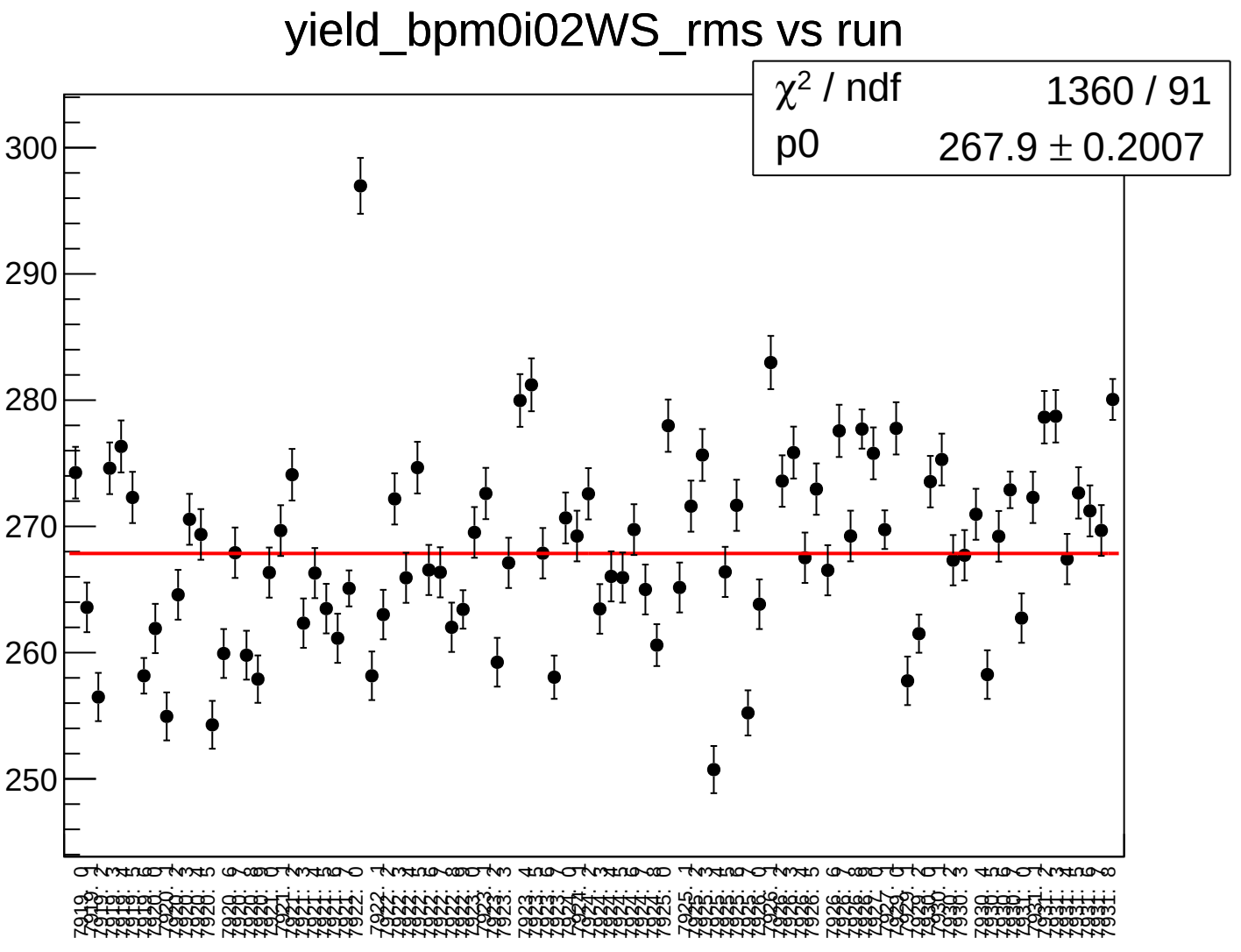

yield_bpm0r03WS_rms vs run
χ² / ndf 1381 / 91
p0 551.1 ± 0.4129
590
580
570
560
550
540
530
520
510

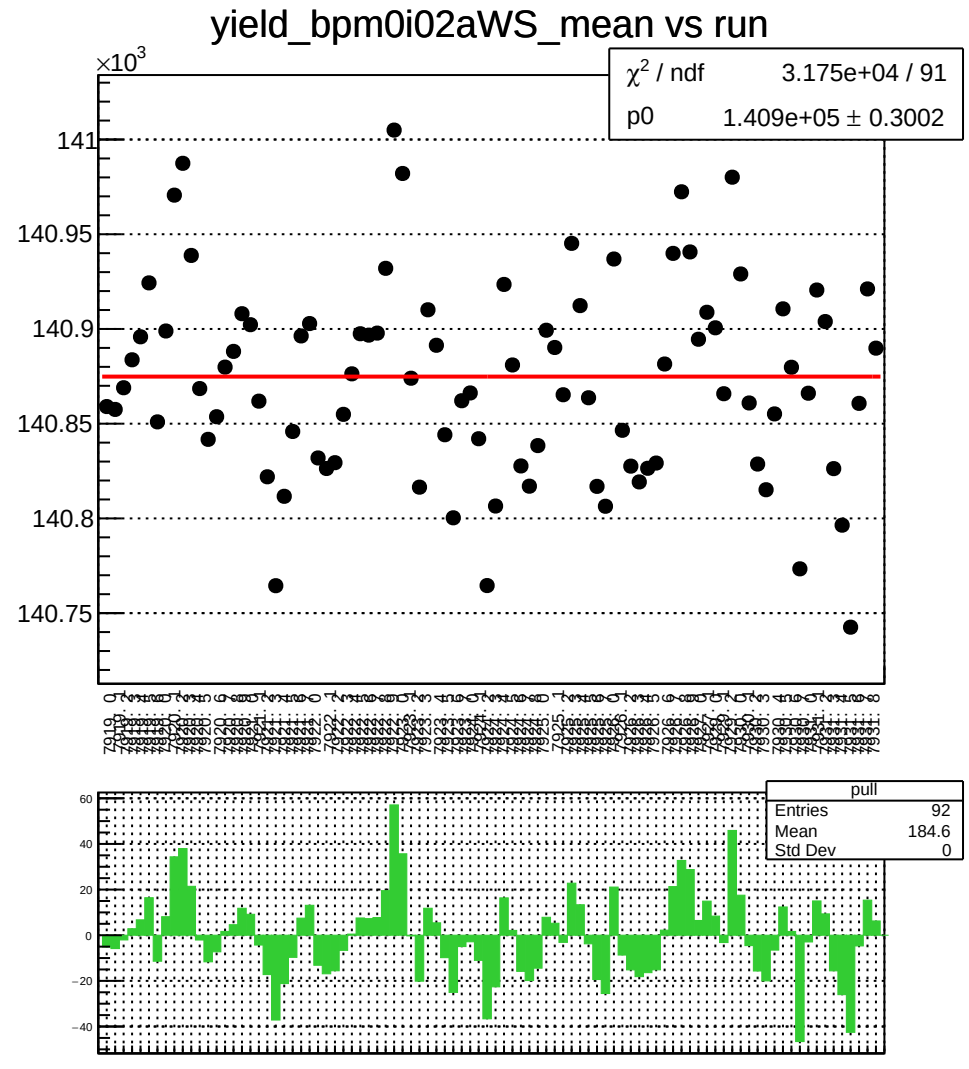

yield_bpm0r05WS_mean vs run
×10^3
134.35
134.3
134.25
134.2
134.15
χ² / ndf 2.03e+04 / 91
p0 1.342e+05 ± 0.2859
pull
Entries 92
Mean 997.9
Std Dev 0
40
30
20
10
0
−10
−20
−30

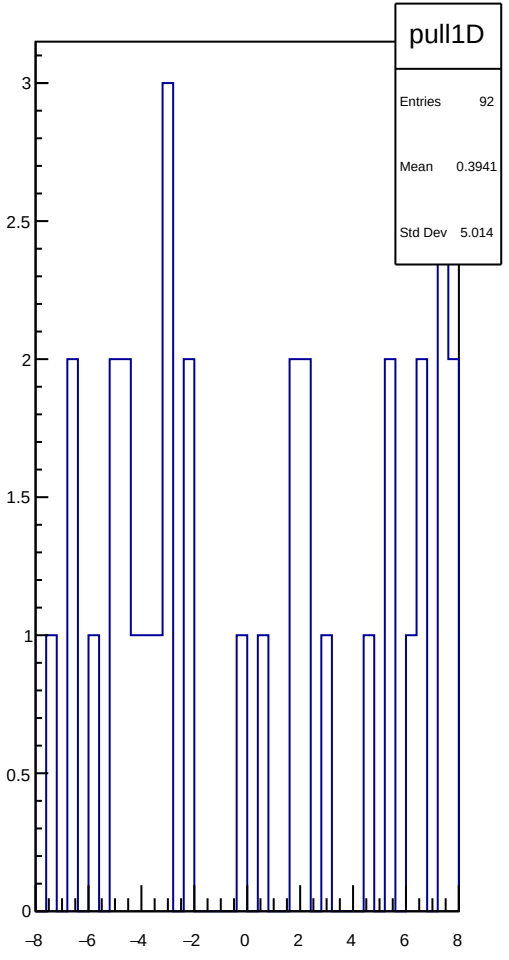

pull1D
Entries 92
Mean 0.1137
Std Dev 5.084
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

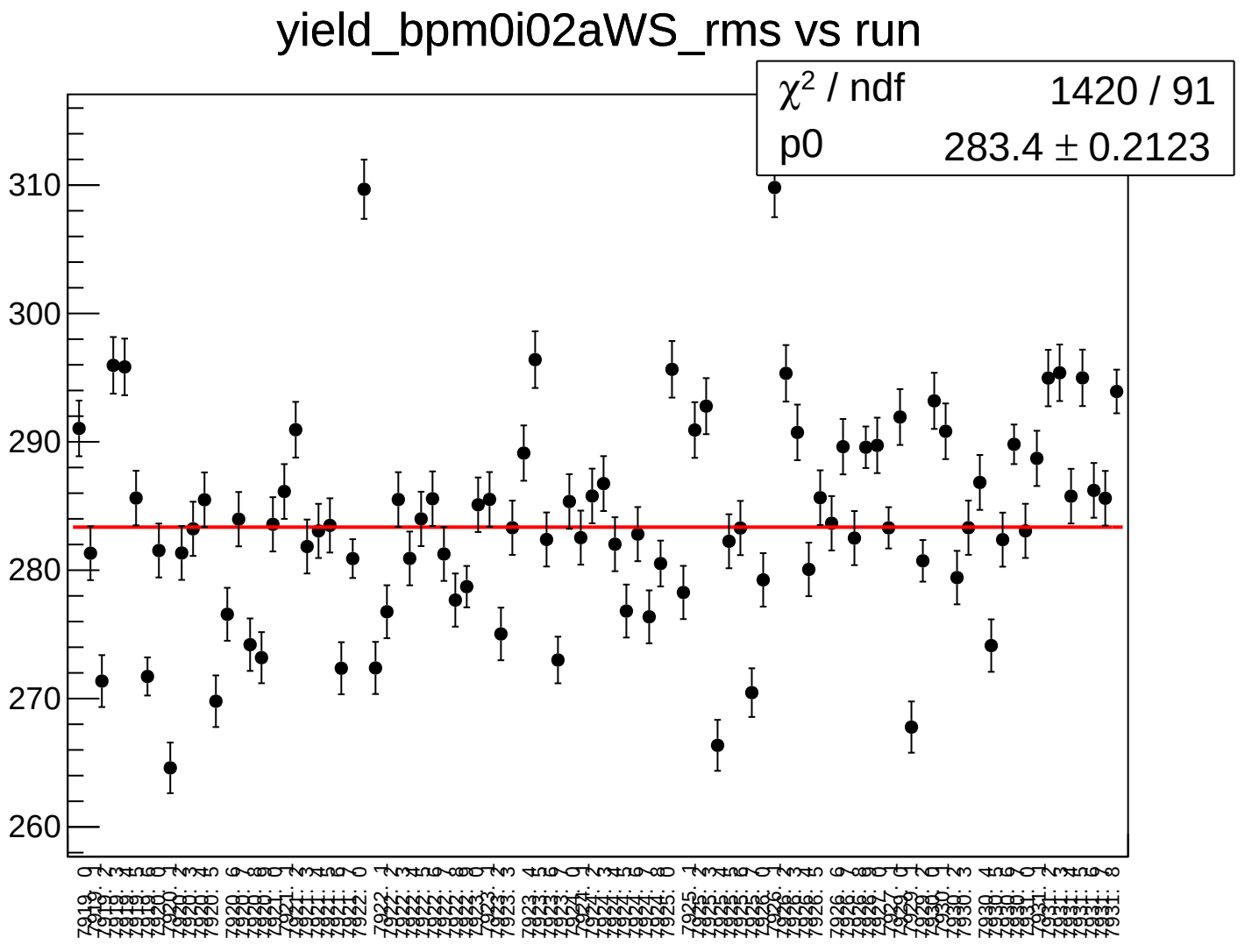

yield_bpm0r05WS_rms vs run
χ² / ndf 1274 / 91
p0 269.8 ± 0.2022
290
280
270
260
250

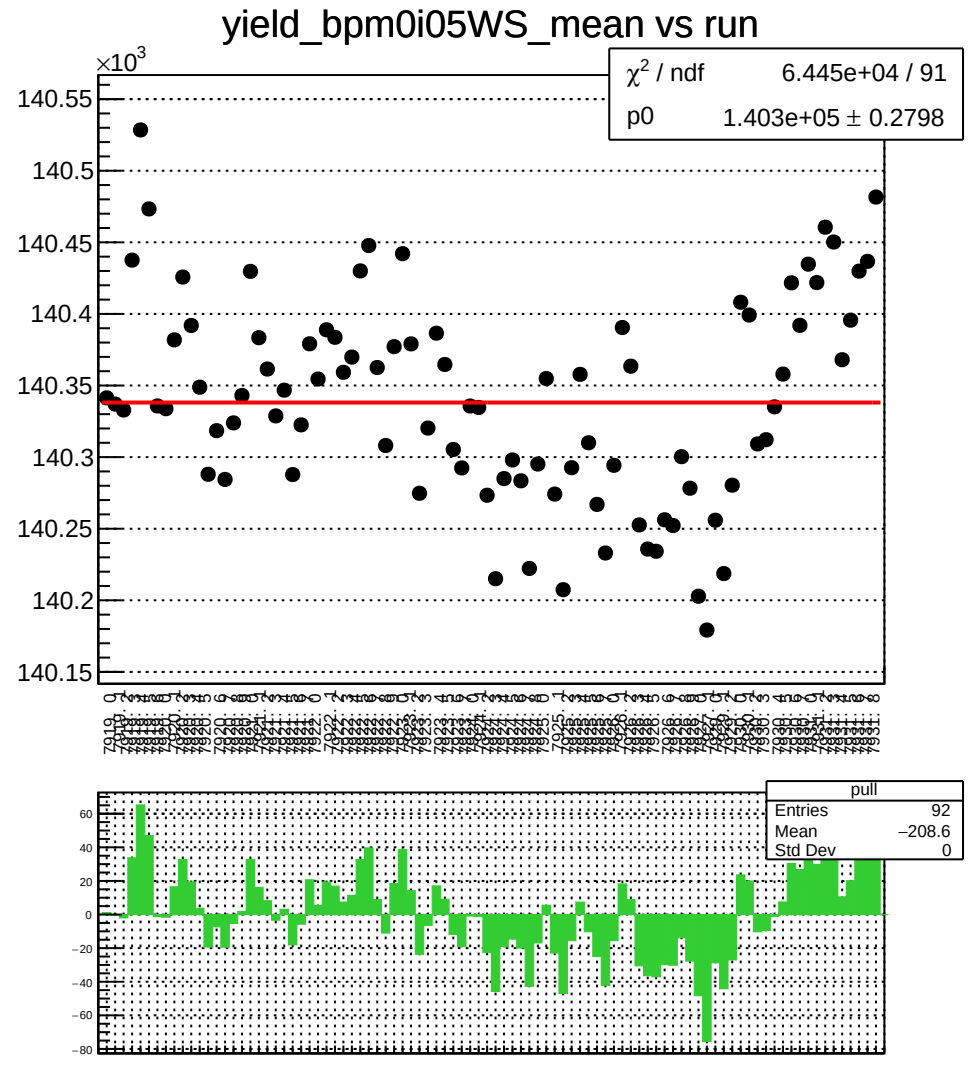

yield_bpm0i02WS_mean vs run
×10^3
χ^2 / ndf 1.174e+04 / 91
p0 1.382e+05 ± 0.2838
138.26
138.24
138.22
138.2
138.18
138.16
138.14
138.12
138.1
pull
Entries 92
Mean −578.5
Std Dev 0
30
20
10
0
−10
−20
pull1D
Entries 92
Mean −1.244
Std Dev 4.552
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

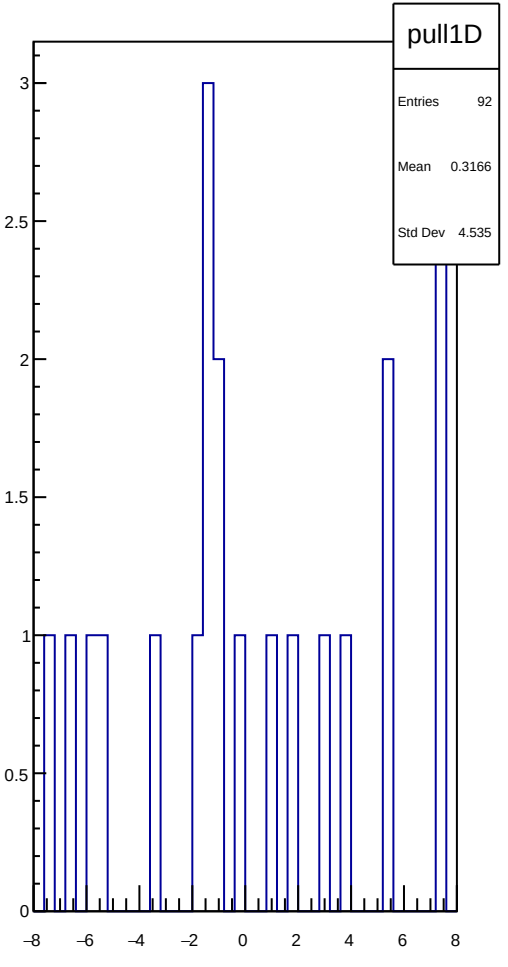

yield_bpm0i02WS_rms vs run
χ² / ndf 1360 / 91
p0 267.9 ± 0.2007
300
290
280
270
260
250

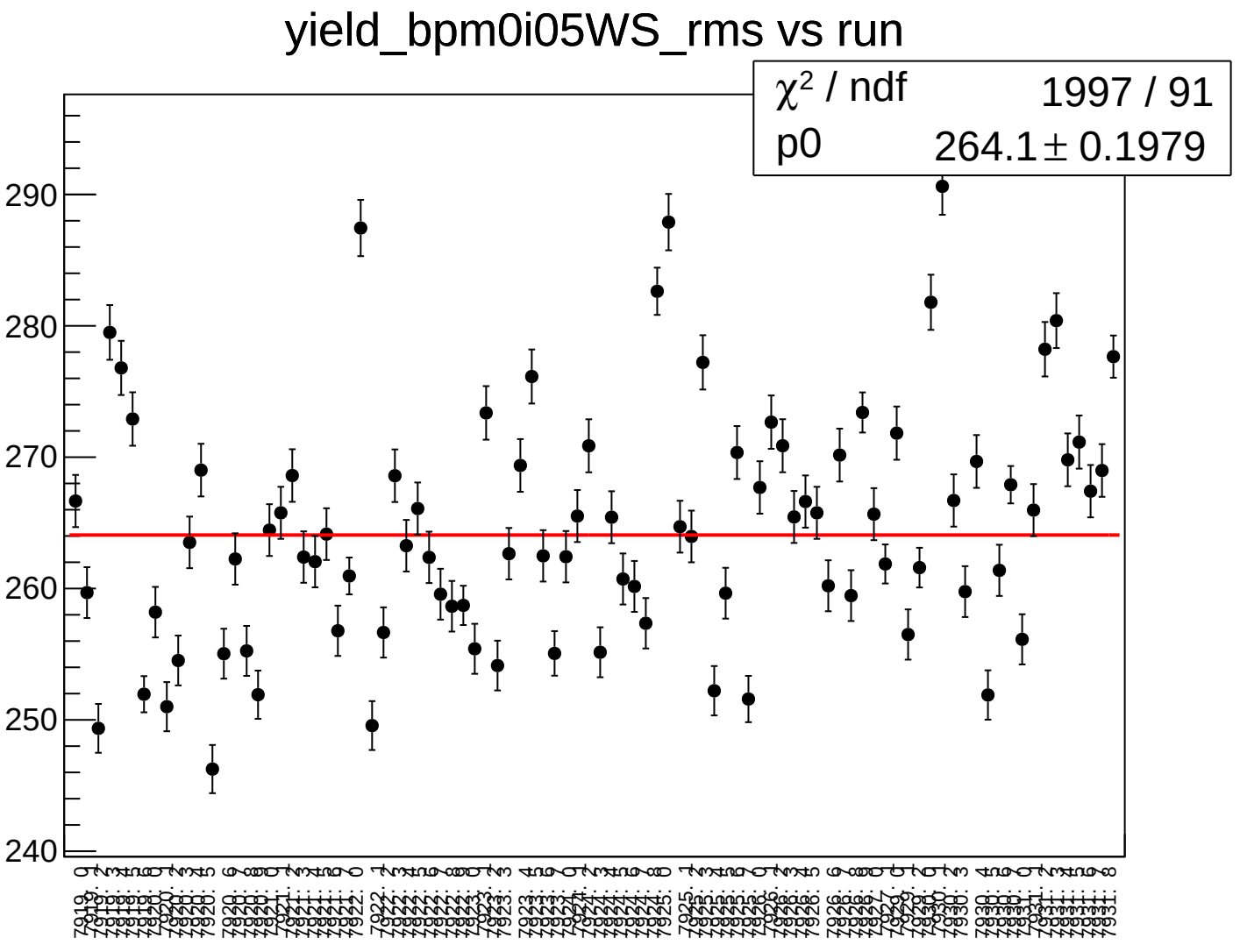

yield_bpm0i02aWS_mean vs run
×10^3
χ² / ndf 3.175e+04 / 91
p0 1.409e+05 ± 0.3002
141
140.95
140.9
140.85
140.8
140.75
pull
Entries 92
Mean 184.6
Std Dev 0
60
40
20
0
−20
−40

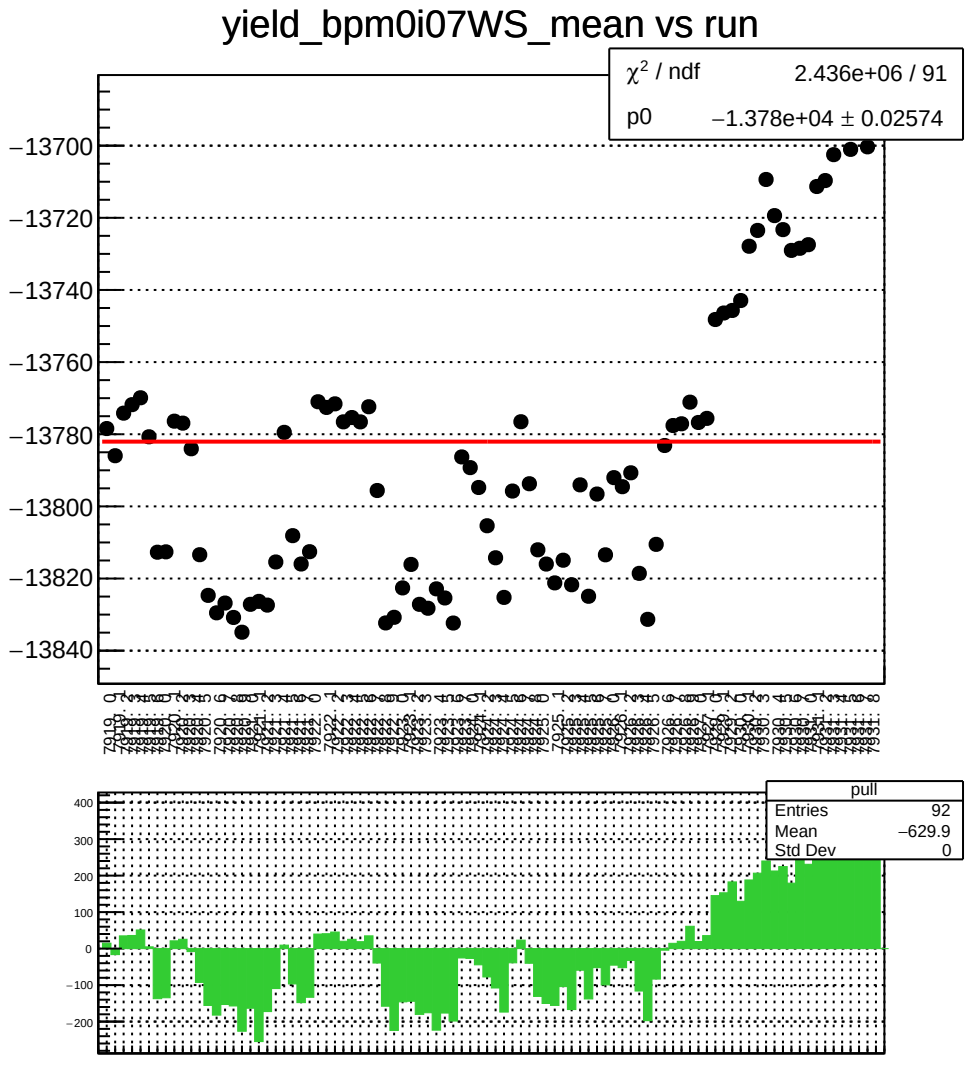

pull1D
Entries 92
Mean 0.3941
Std Dev 5.014
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

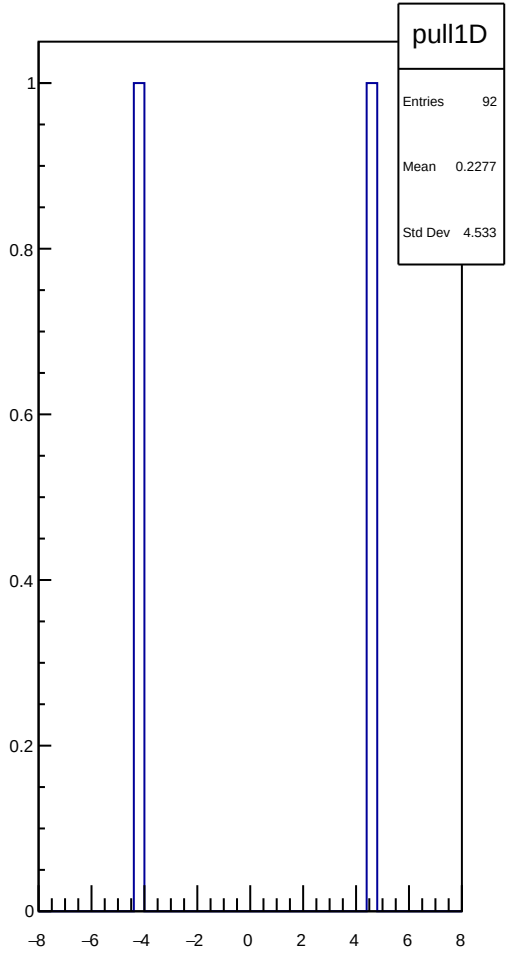

yield_bpm0i02aWS_rms vs run
χ² / ndf 1420 / 91
p0 283.4 ± 0.2123
310
300
290
280
270
260

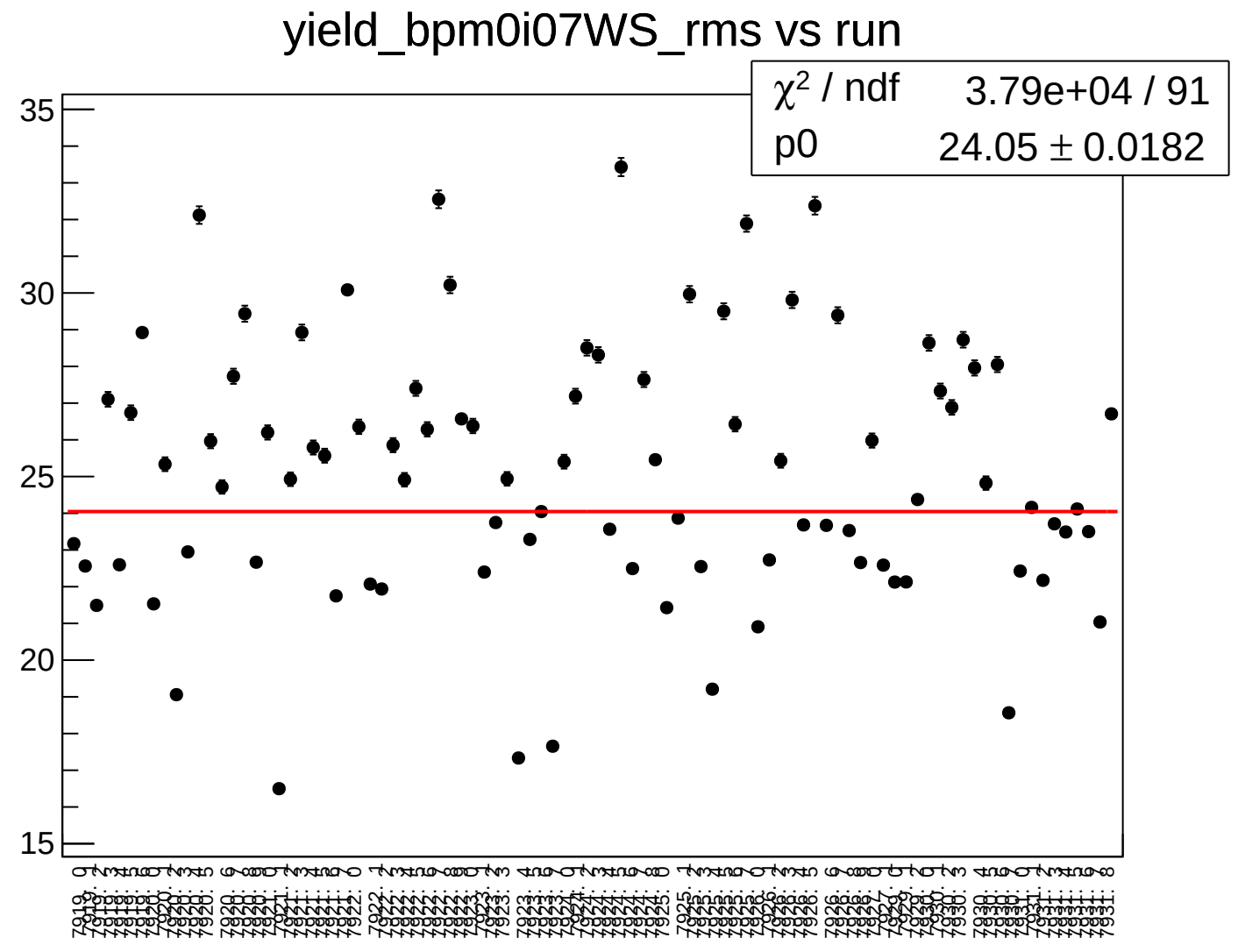

yield_bpm0i05WS_mean vs run
×10^3
χ^2 / ndf 6.445e+04 / 91
p0 1.403e+05 ± 0.2798
140.55
140.5
140.45
140.4
140.35
140.3
140.25
140.2
140.15
pull
Entries 92
Mean −208.6
Std Dev 0
60
40
20
0
−20
−40
−60
−80

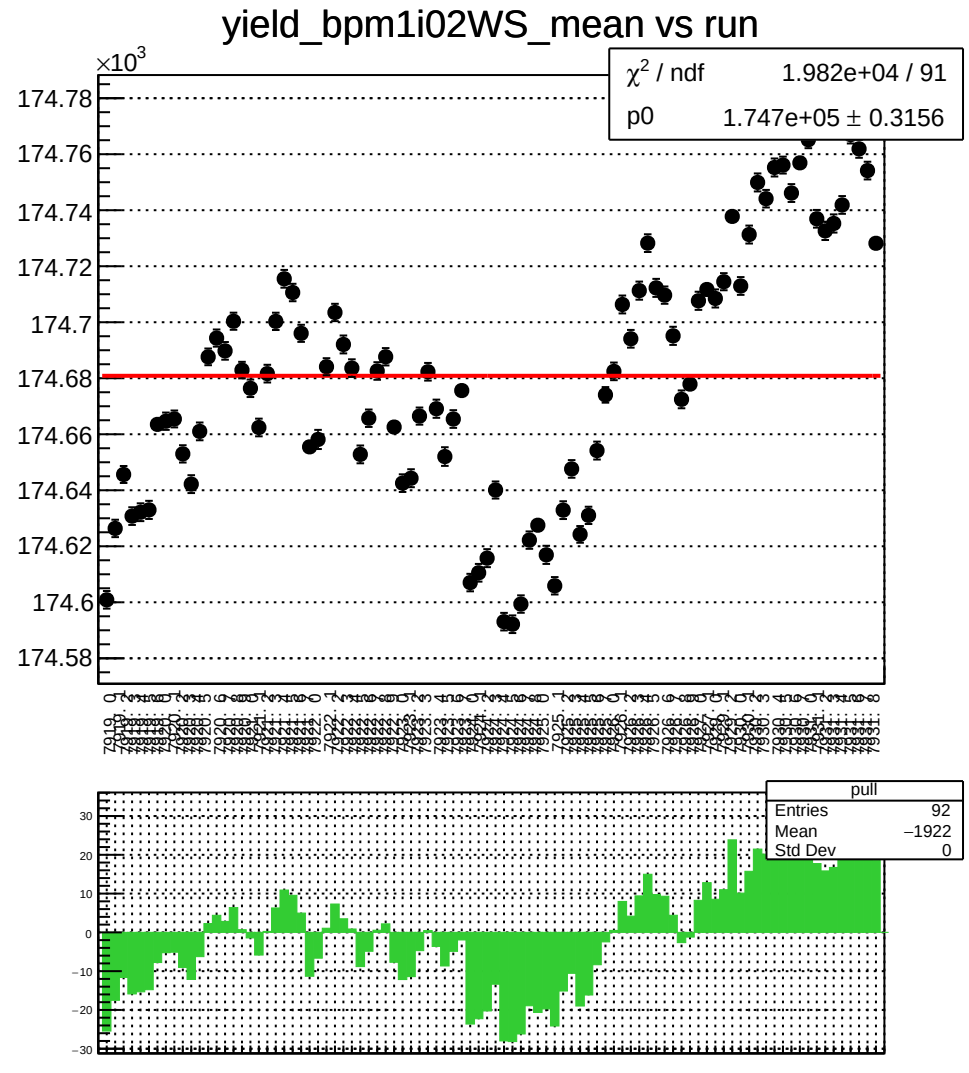

pull1D
Entries 92
Mean 0.3166
Std Dev 4.535
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

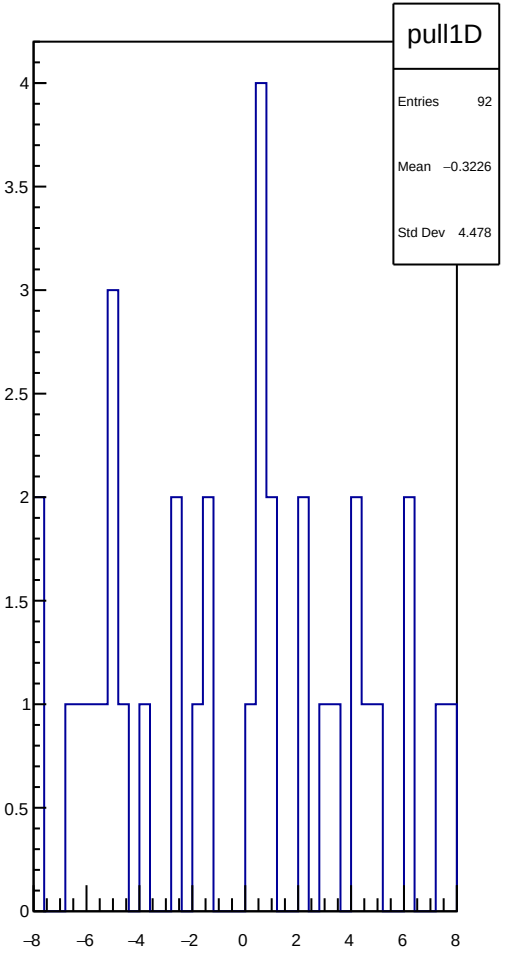

yield_bpm0i05WS_rms vs run
χ² / ndf 1997 / 91
p0 264.1 ± 0.1979
290
280
270
260
250
240

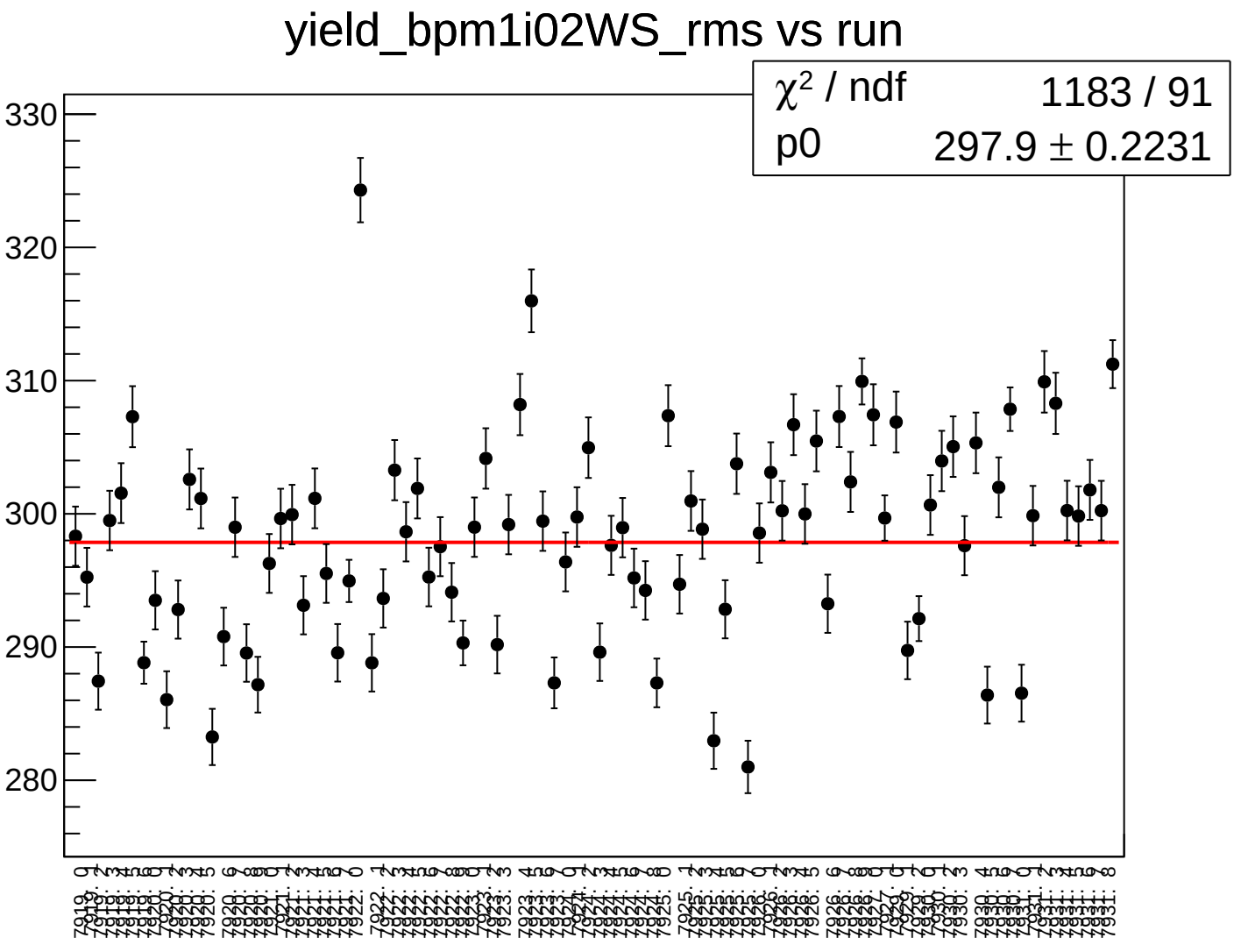

yield_bpm0i07WS_mean vs run
χ² / ndf 2.436e+06 / 91
p0 −1.378e+04 ± 0.02574
−13700
−13720
−13740
−13760
−13780
−13800
−13820
−13840
pull
Entries 92
Mean −629.9
Std Dev 0
400
300
200
100
0
−100
−200

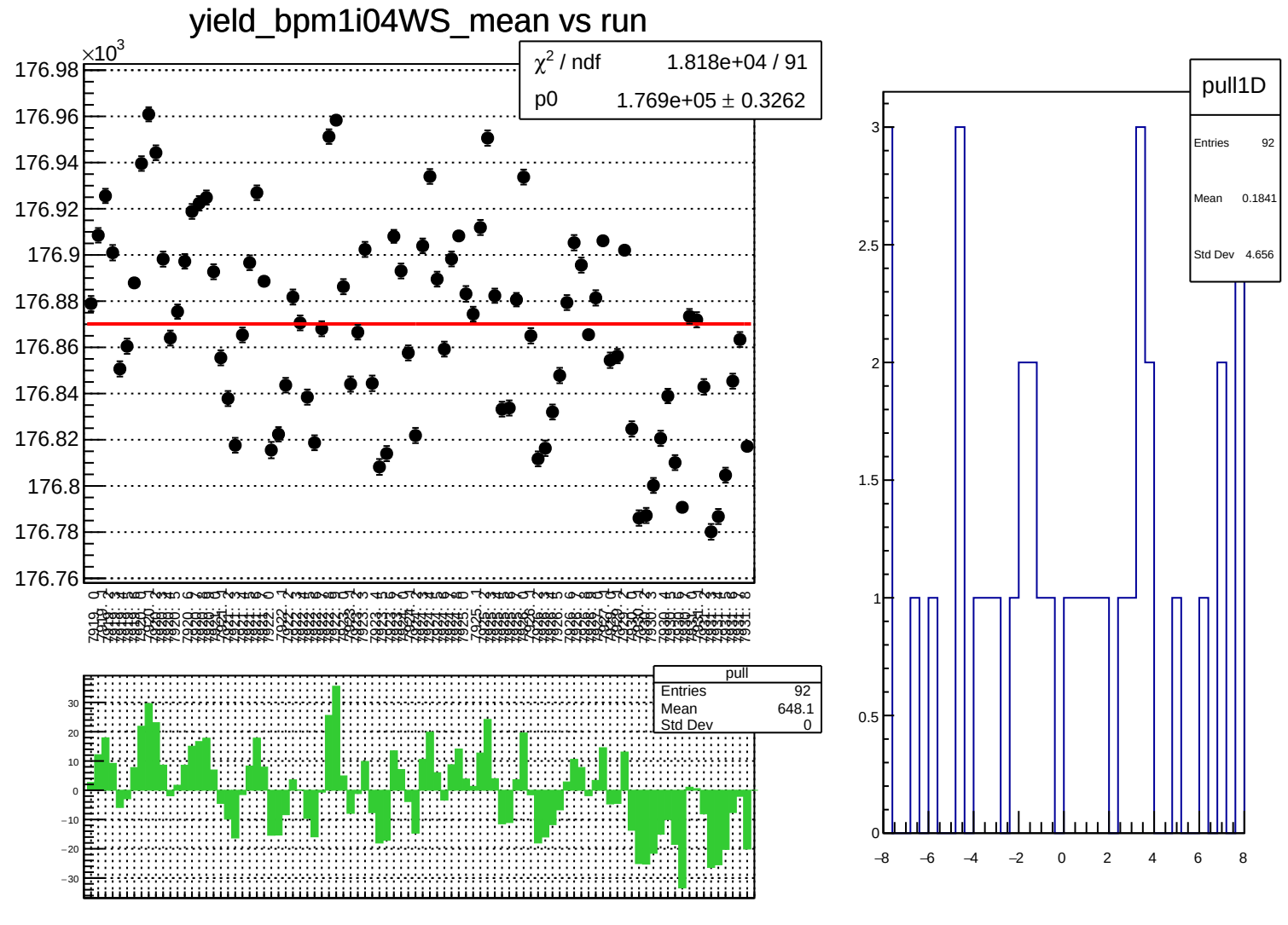

pull1D
Entries 92
Mean 0.2277
Std Dev 4.533
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

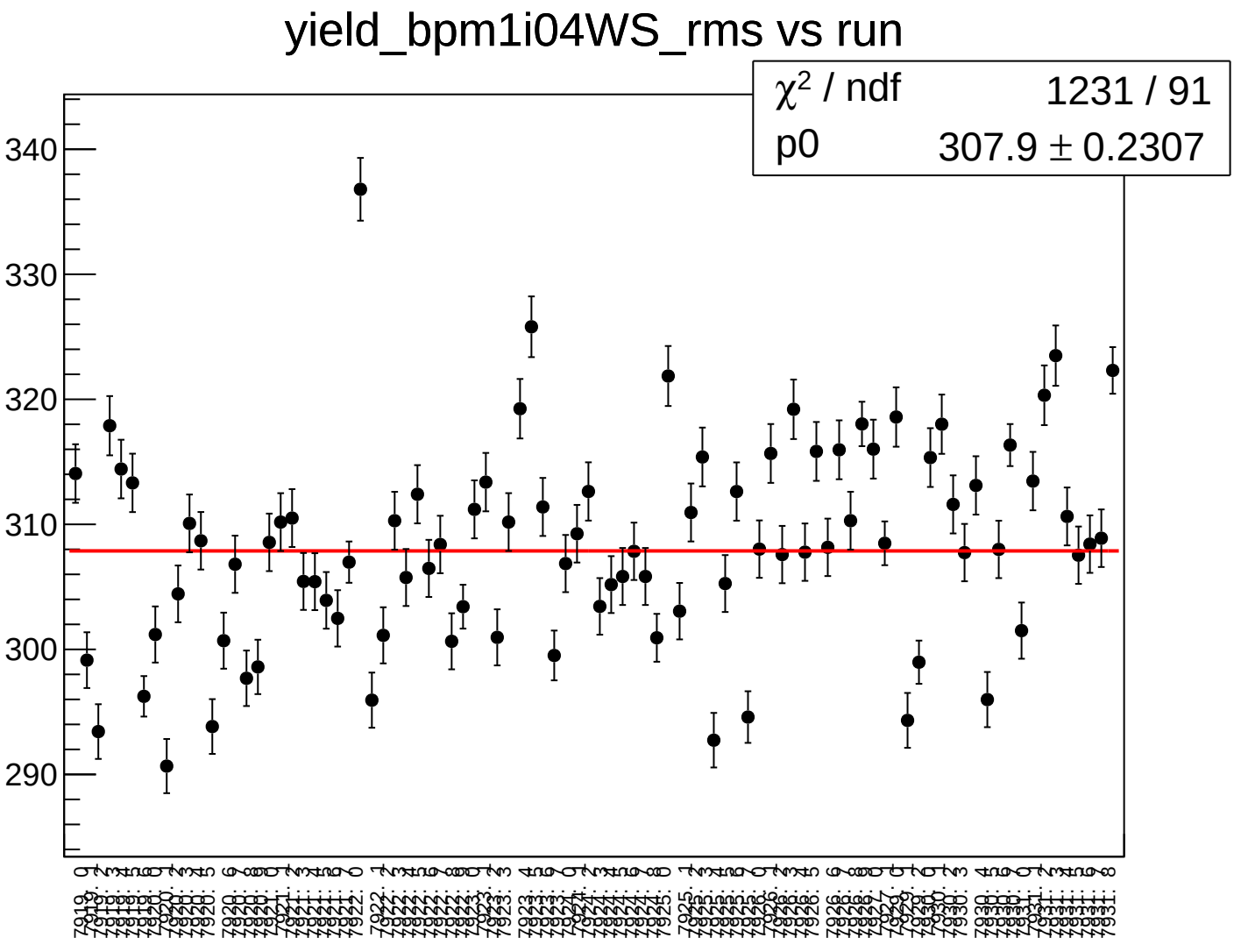

yield_bpm0i07WS_rms vs run
χ² / ndf 3.79e+04 / 91
p0 24.05 ± 0.0182
35
30
25
20
15

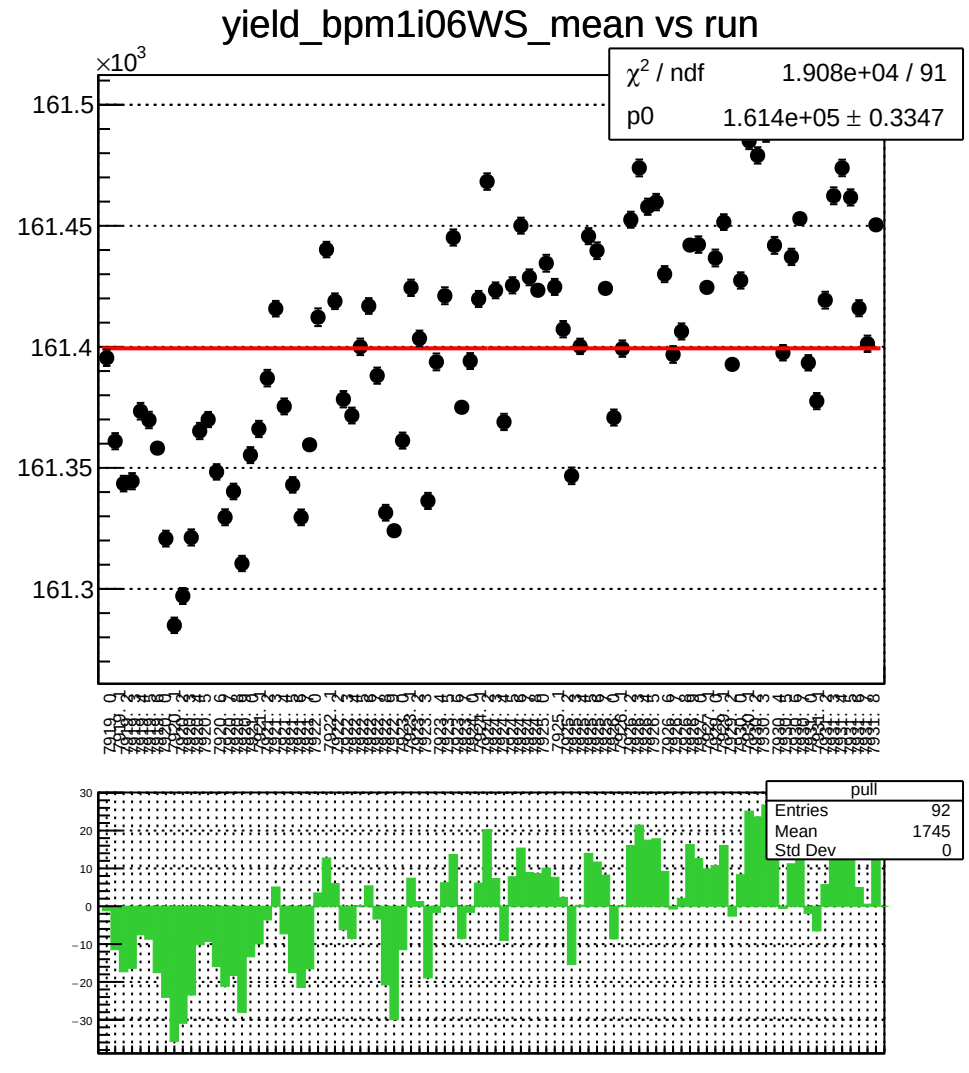

yield_bpm1i02WS_mean vs run
×10^3
χ² / ndf 1.982e+04 / 91
p0 1.747e+05 ± 0.3156
174.78
174.76
174.74
174.72
174.7
174.68
174.66
174.64
174.62
174.6
174.58
pull
Entries 92
Mean −1922
Std Dev 0
30
20
10
0
−10
−20
−30

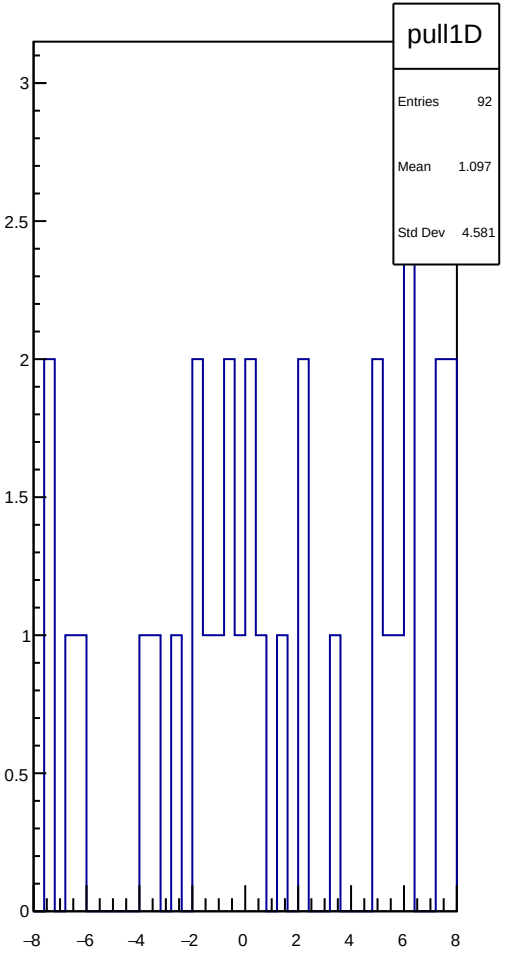

pull1D
Entries 92
Mean −0.3226
Std Dev 4.478
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

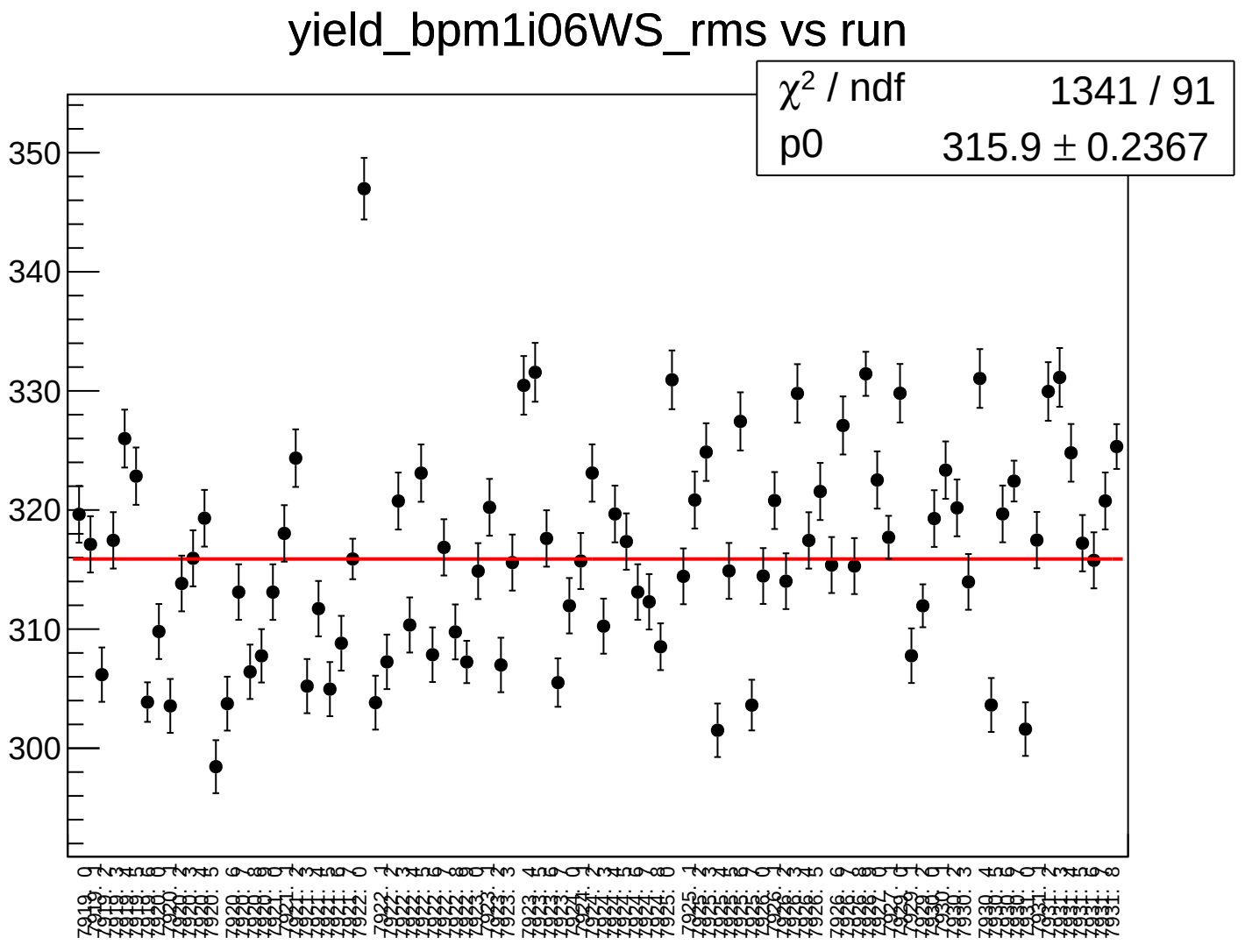

yield_bpm1i02WS_rms vs run
χ² / ndf 1183 / 91
p0 297.9 ± 0.2231
330
320
310
300
290
280

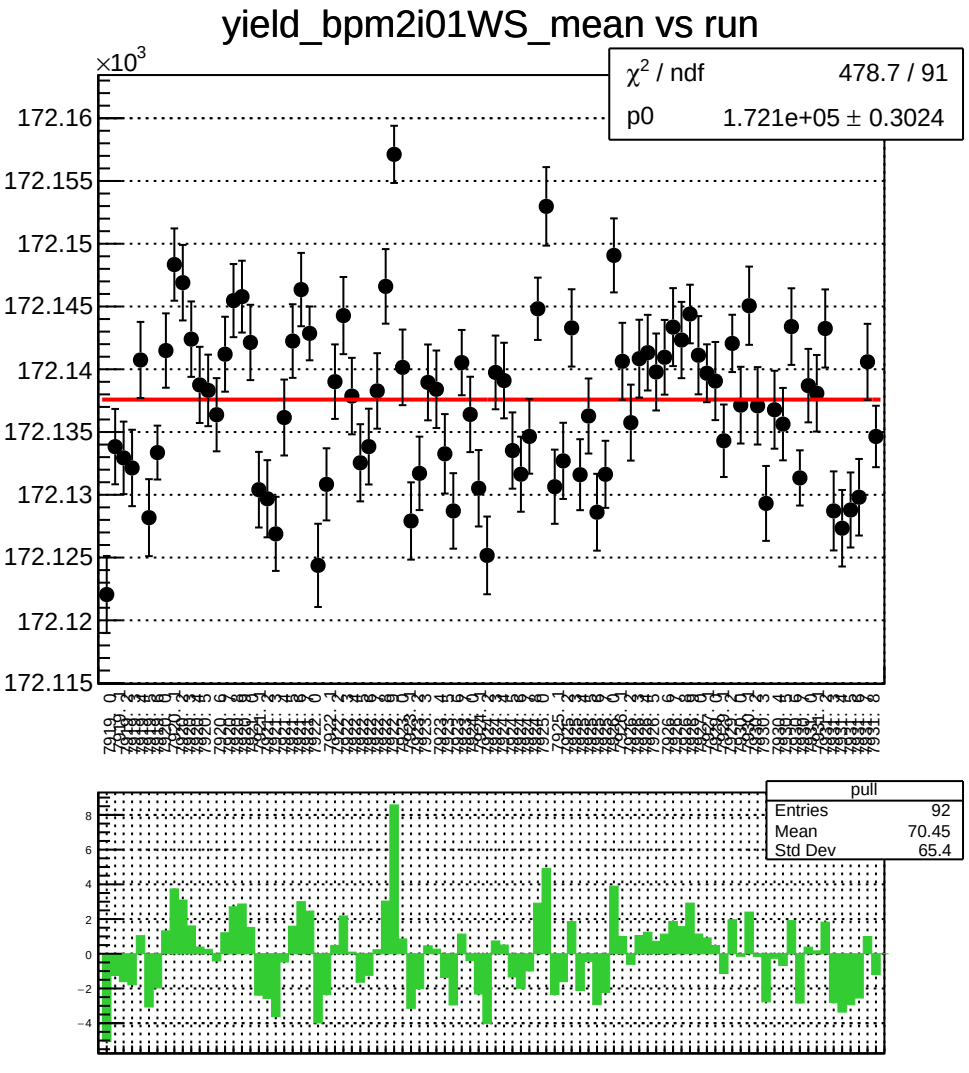

yield_bpm1i04WS_mean vs run
×10^3
χ² / ndf 1.818e+04 / 91
p0 1.769e+05 ± 0.3262
176.98
176.96
176.94
176.92
176.9
176.88
176.86
176.84
176.82
176.8
176.78
176.76
pull
Entries 92
Mean 648.1
Std Dev 0
30
20
10
0
−10
−20
−30
pull1D
Entries 92
Mean 0.1841
Std Dev 4.656
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

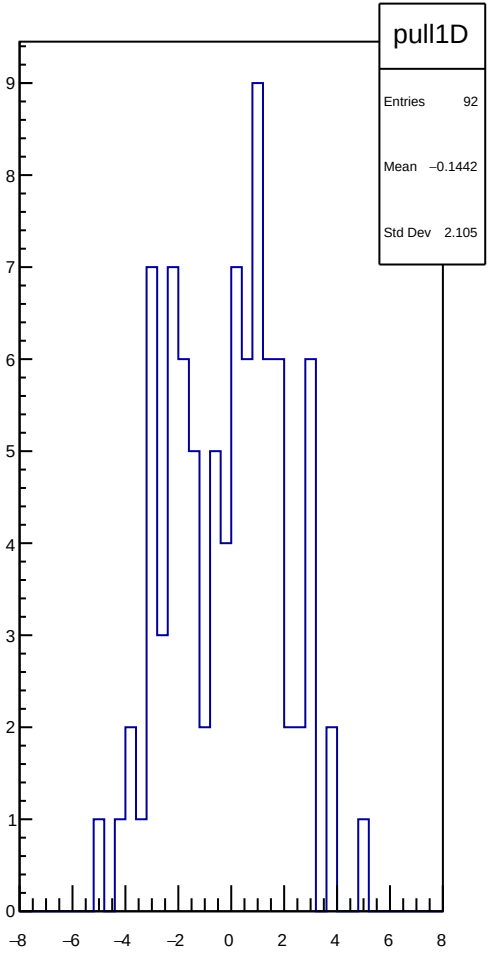

yield_bpm1i04WS_rms vs run
χ² / ndf 1231 / 91
p0 307.9 ± 0.2307
340
330
320
310
300
290

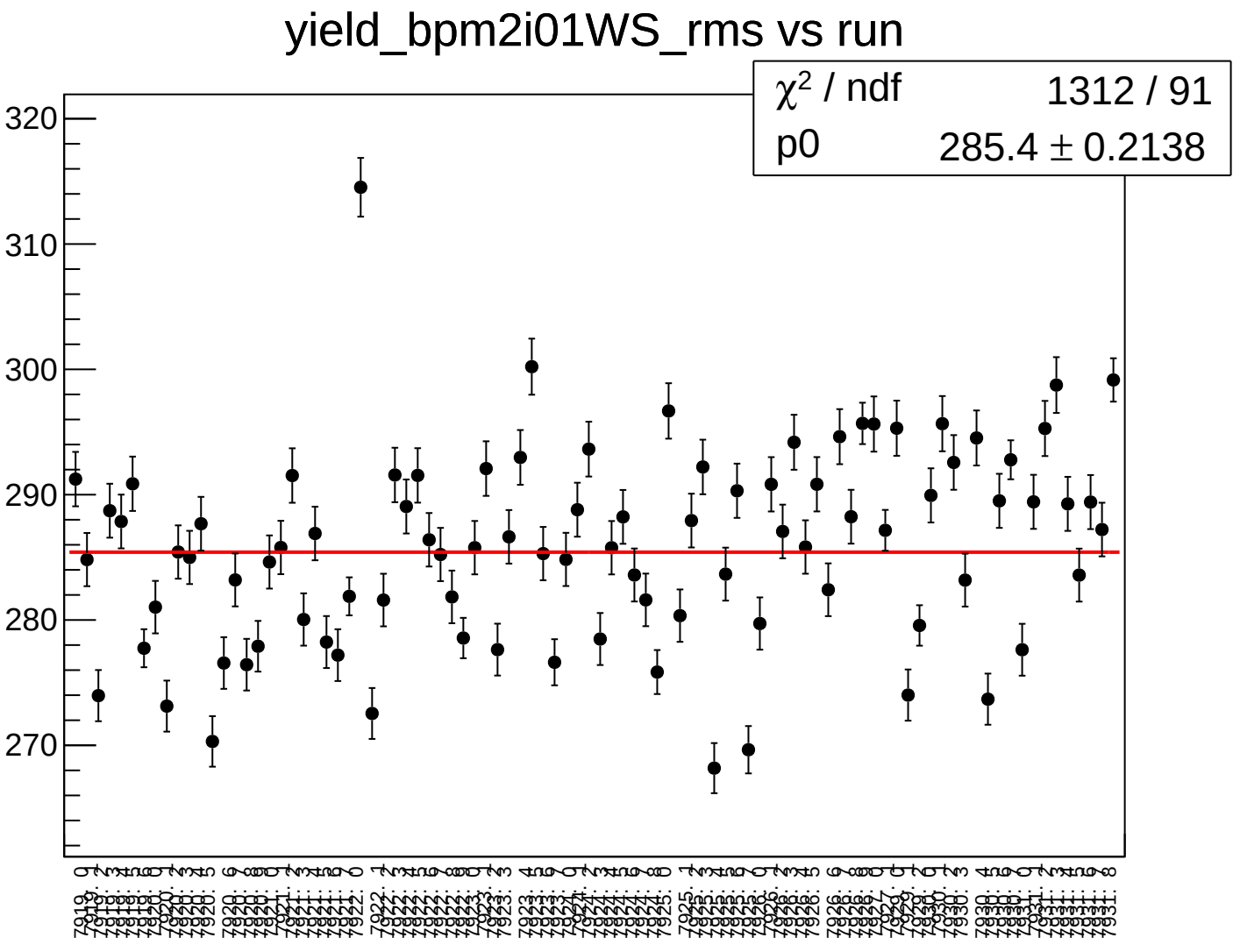

yield_bpm1i06WS_mean vs run
×10^3
χ² / ndf 1.908e+04 / 91
p0 1.614e+05 ± 0.3347
161.5
161.45
161.4
161.35
161.3
pull
Entries 92
Mean 1745
Std Dev 0
30
20
10
0
−10
−20
−30

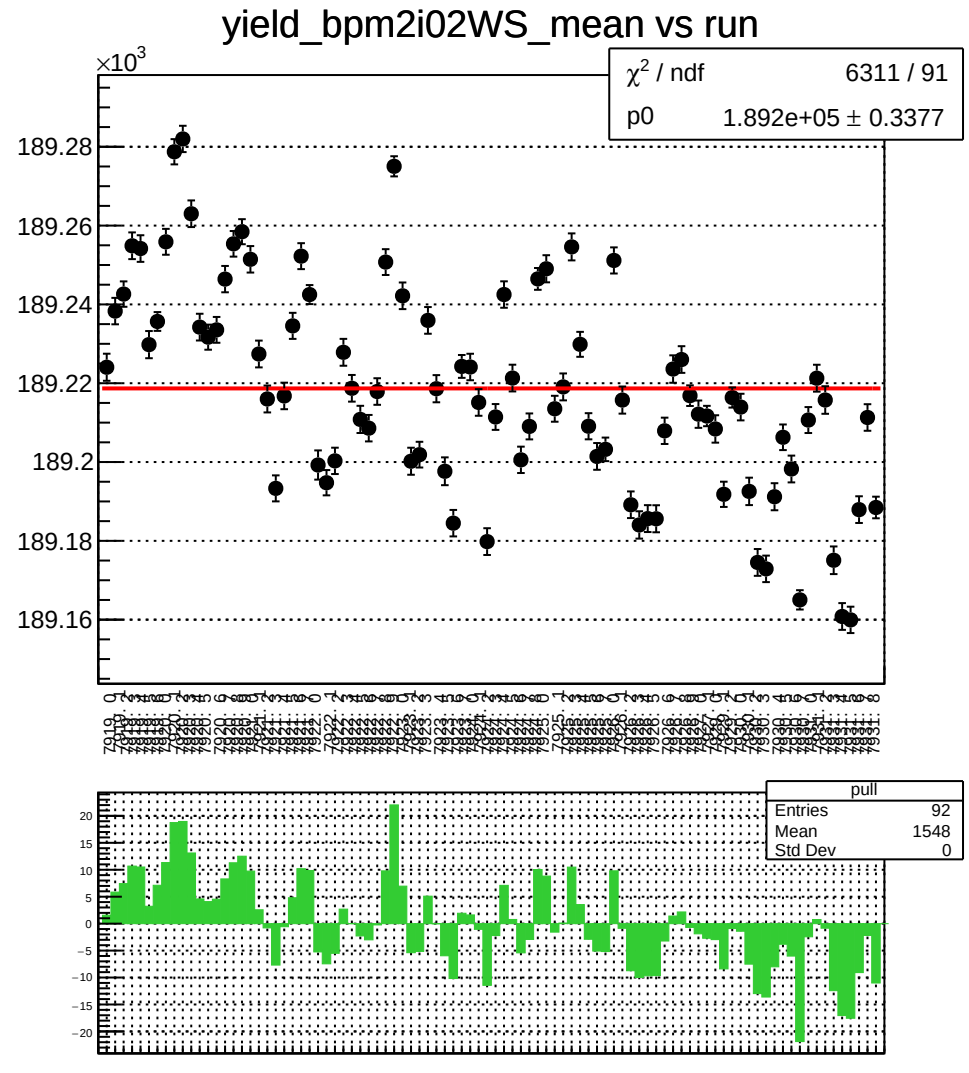

pull1D
Entries 92
Mean 1.097
Std Dev 4.581
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

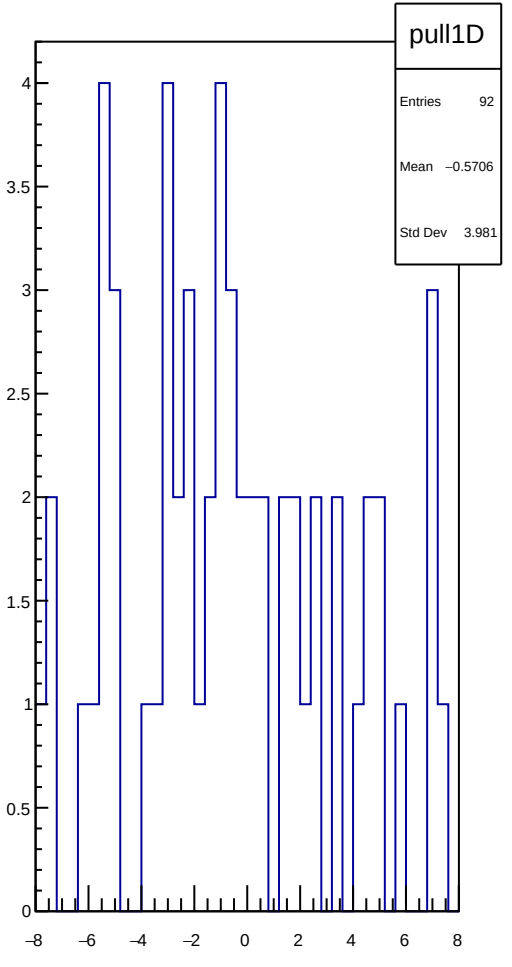

yield_bpm1i06WS_rms vs run
χ² / ndf 1341 / 91
p0 315.9 ± 0.2367
350
340
330
320
310
300

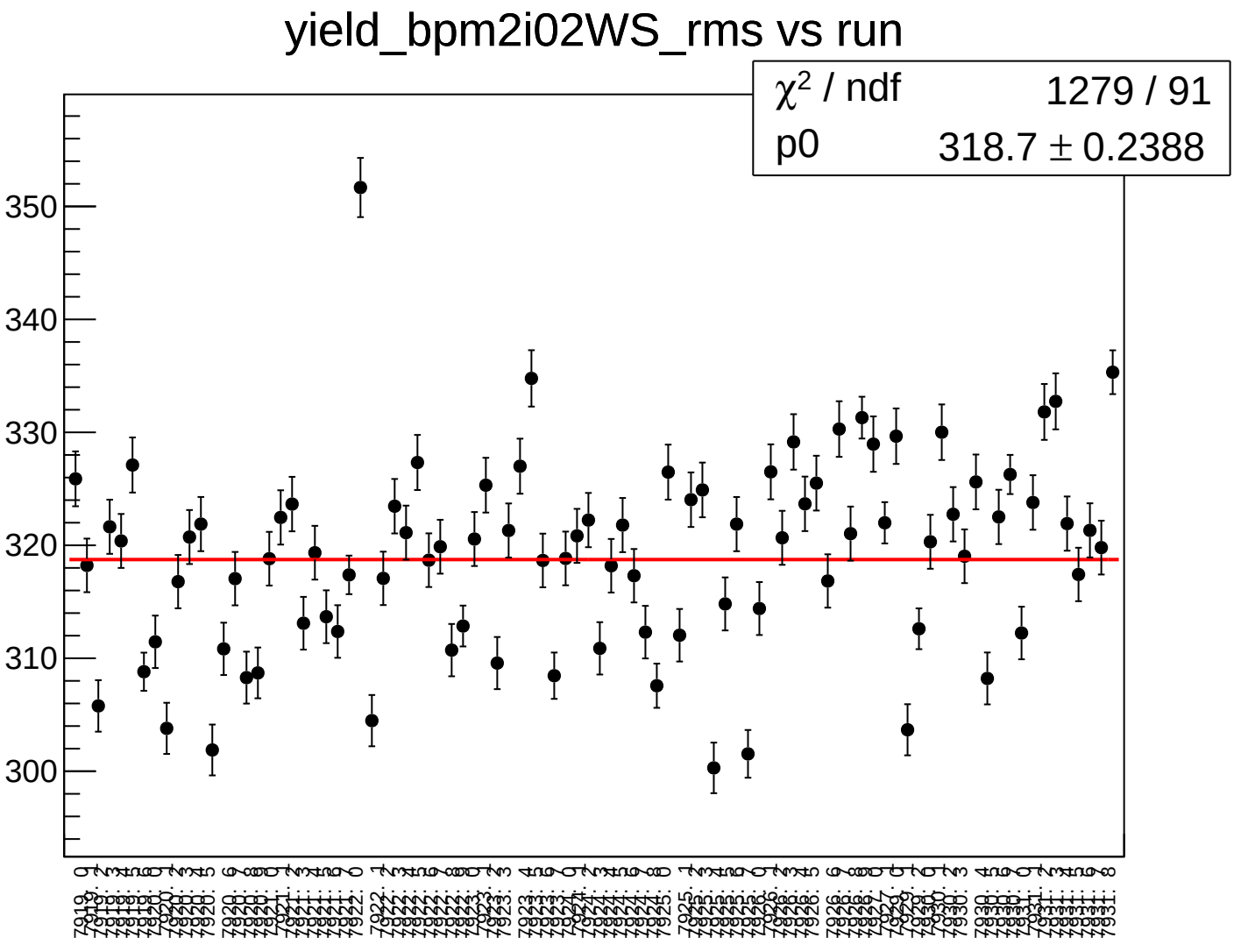

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 478.7 / 91
p0 1.721e+05 ± 0.3024
172.16
172.155
172.15
172.145
172.14
172.135
172.13
172.125
172.12
172.115
pull
Entries 92
Mean 70.45
Std Dev 65.4
8
6
4
2
0
−2
−4

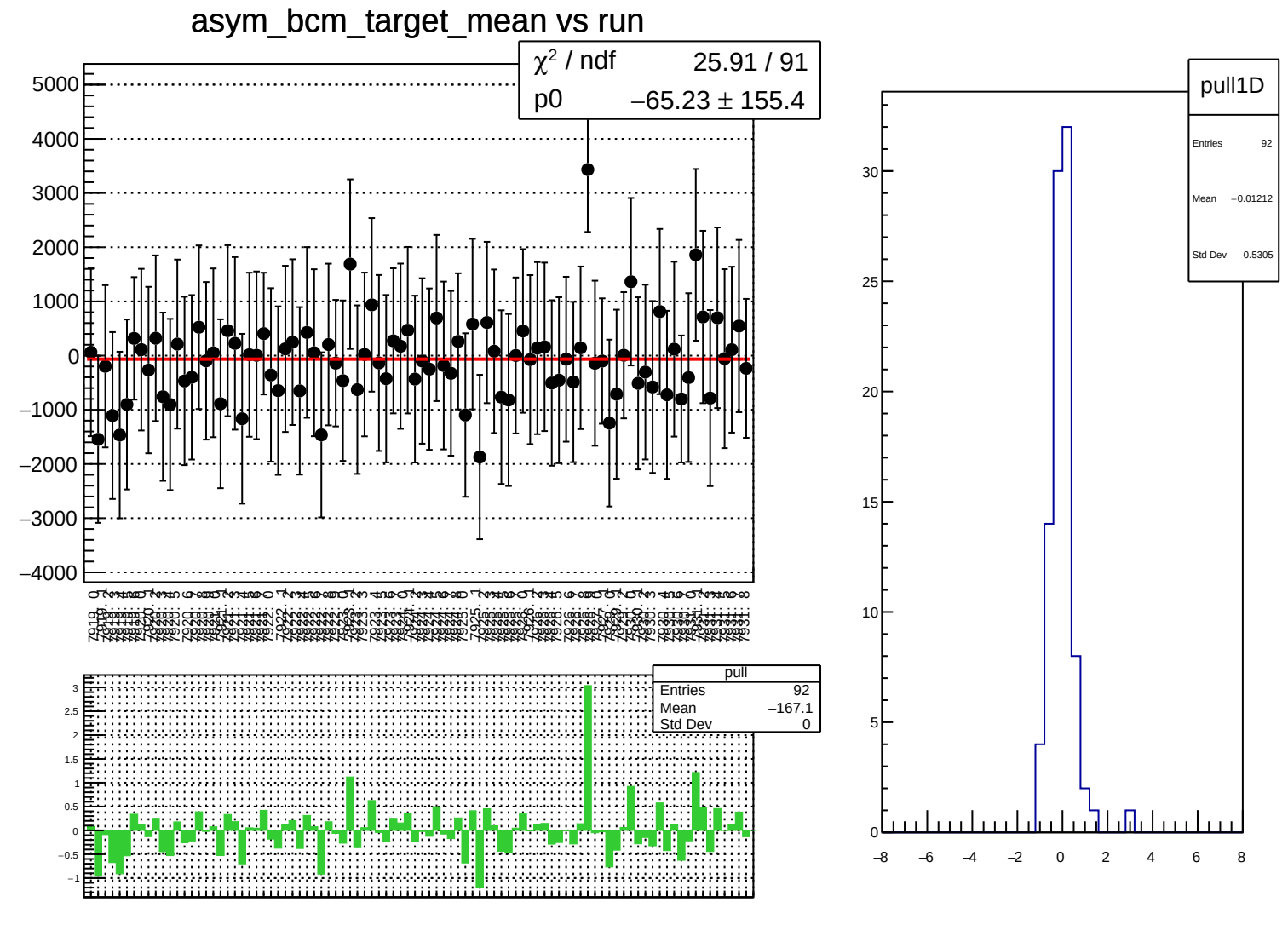

pull1D
Entries 92
Mean −0.1442
Std Dev 2.105
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

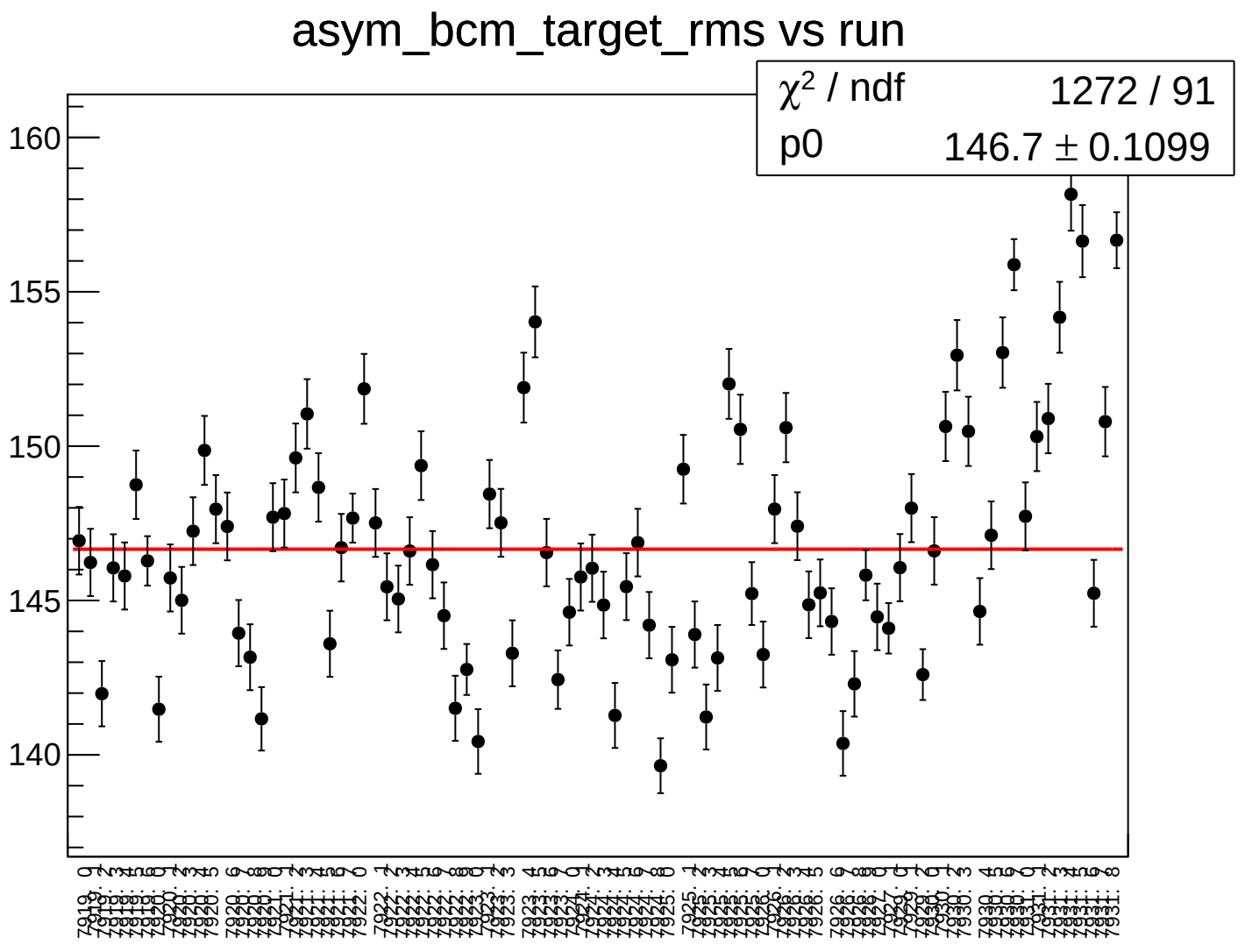

yield_bpm2i01WS_rms vs run
χ² / ndf 1312 / 91
p0 285.4 ± 0.2138
320
310
300
290
280
270

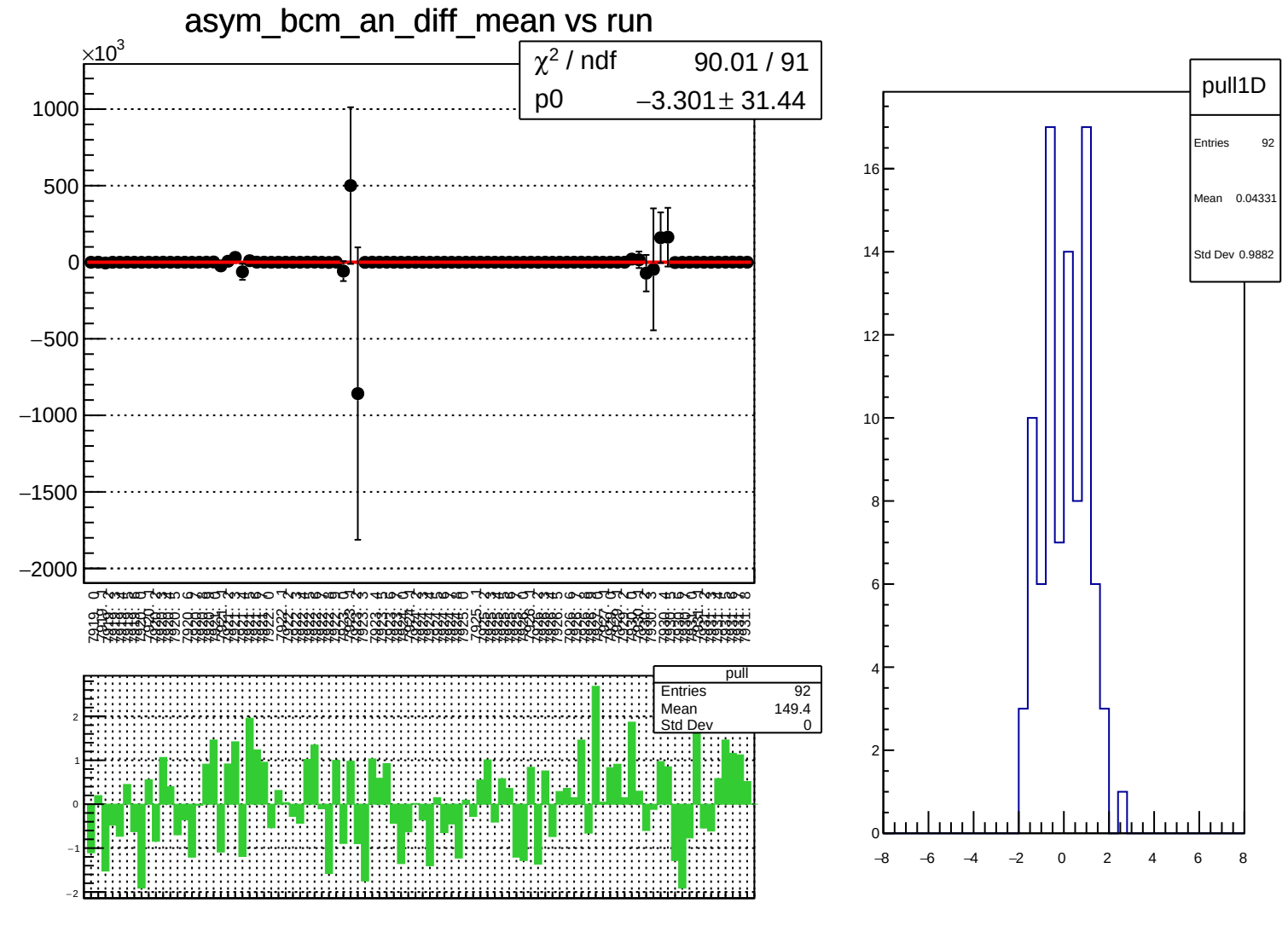

yield_bpm2i02WS_mean vs run
×10^3
χ² / ndf 6311 / 91
p0 1.892e+05 ± 0.3377
189.28
189.26
189.24
189.22
189.2
189.18
189.16
pull
Entries 92
Mean 1548
Std Dev 0
20
15
10
5
0
−5
−10
−15
−20

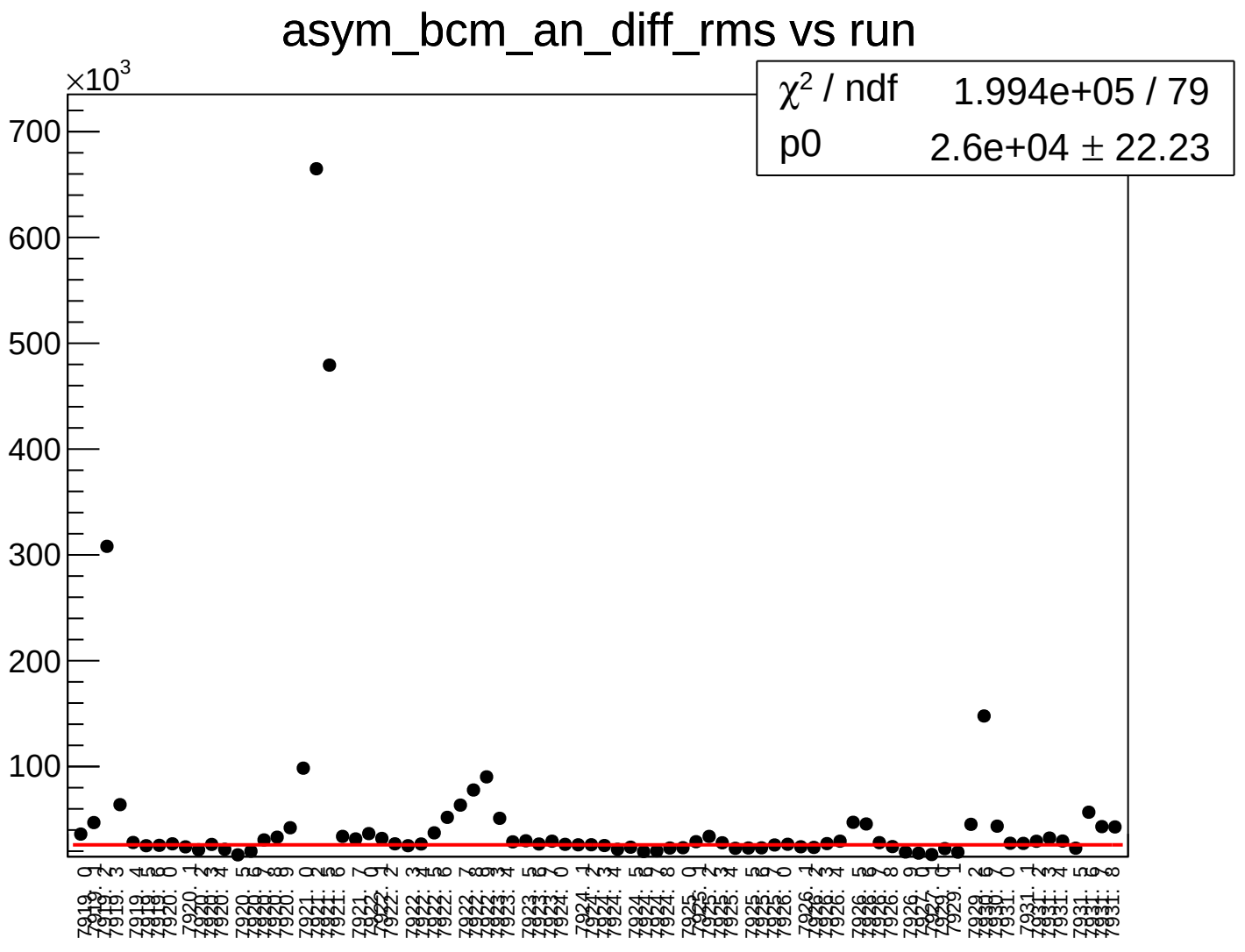

pull1D
Entries 92
Mean −0.5706
Std Dev 3.981
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

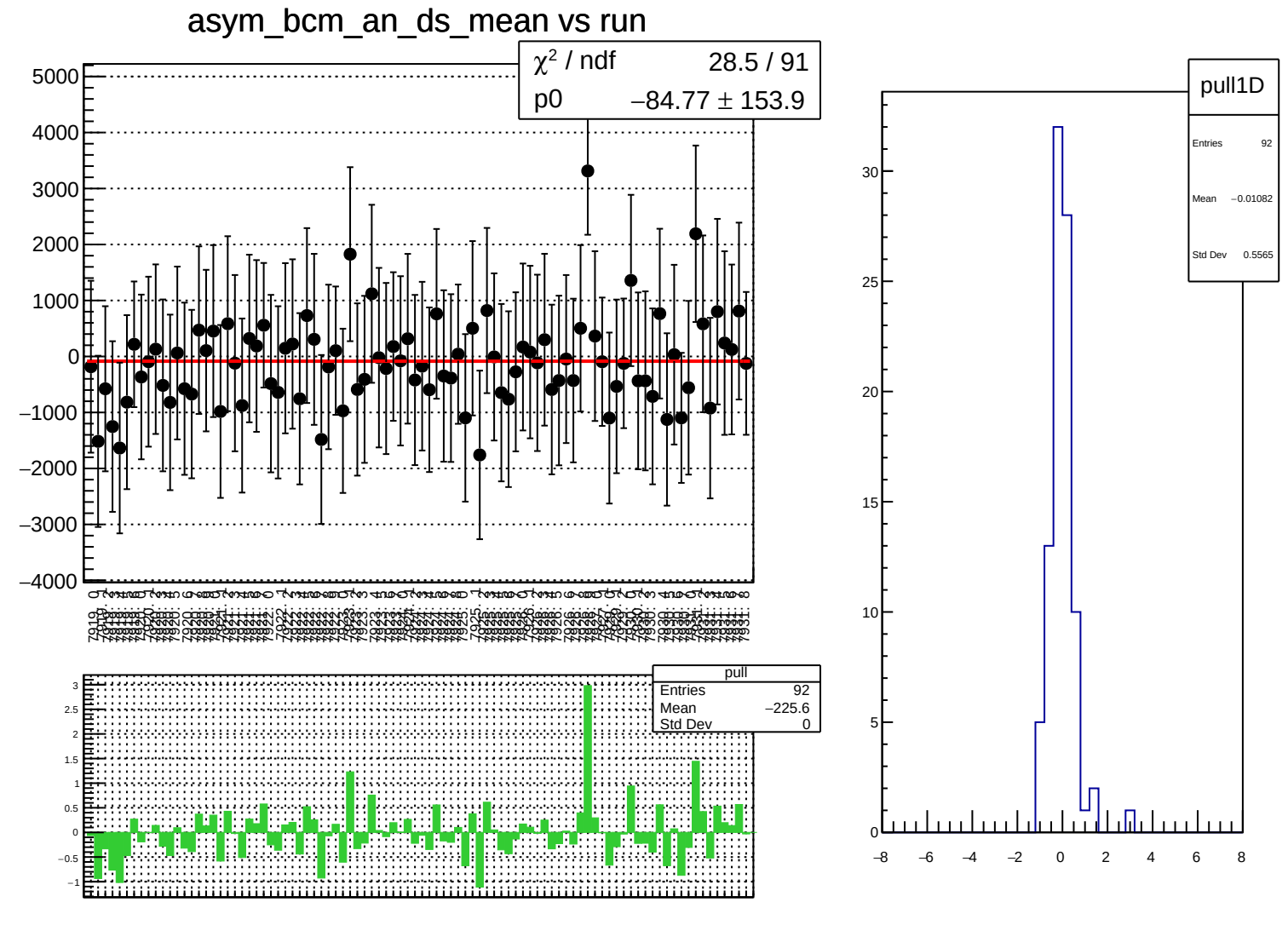

yield_bpm2i02WS_rms vs run
χ² / ndf 1279 / 91
p0 318.7 ± 0.2388
350
340
330
320
310
300

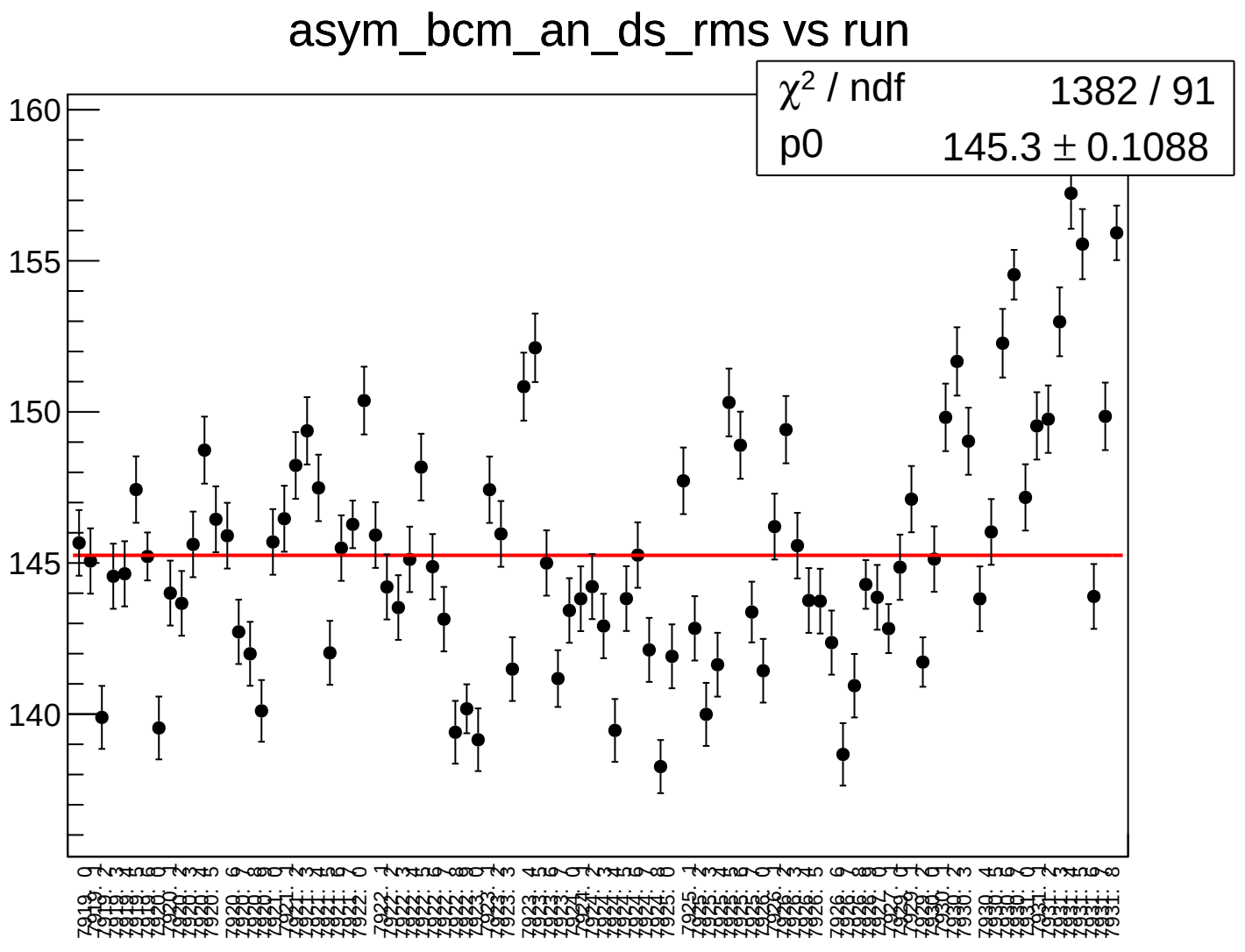

asym_bcm_target_mean vs run
χ² / ndf 25.91 / 91
p0 −65.23 ± 155.4
pull
Entries 92
Mean −167.1
Std Dev 0
pull1D
Entries 92
Mean −0.01212
Std Dev 0.5305

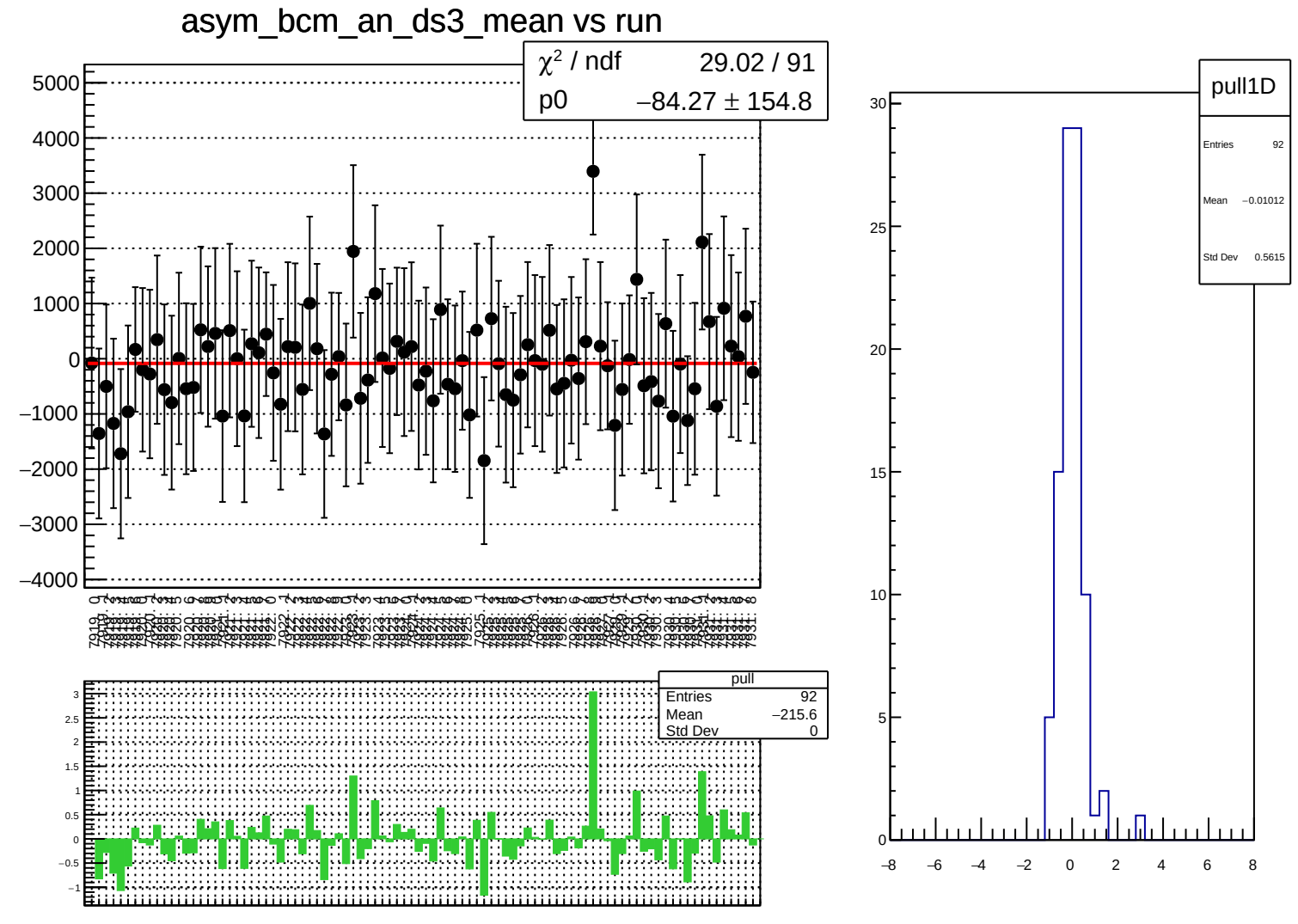

asym_bcm_target_rms vs run
χ² / ndf 1272 / 91
p0 146.7 ± 0.1099
160
155
150
145
140

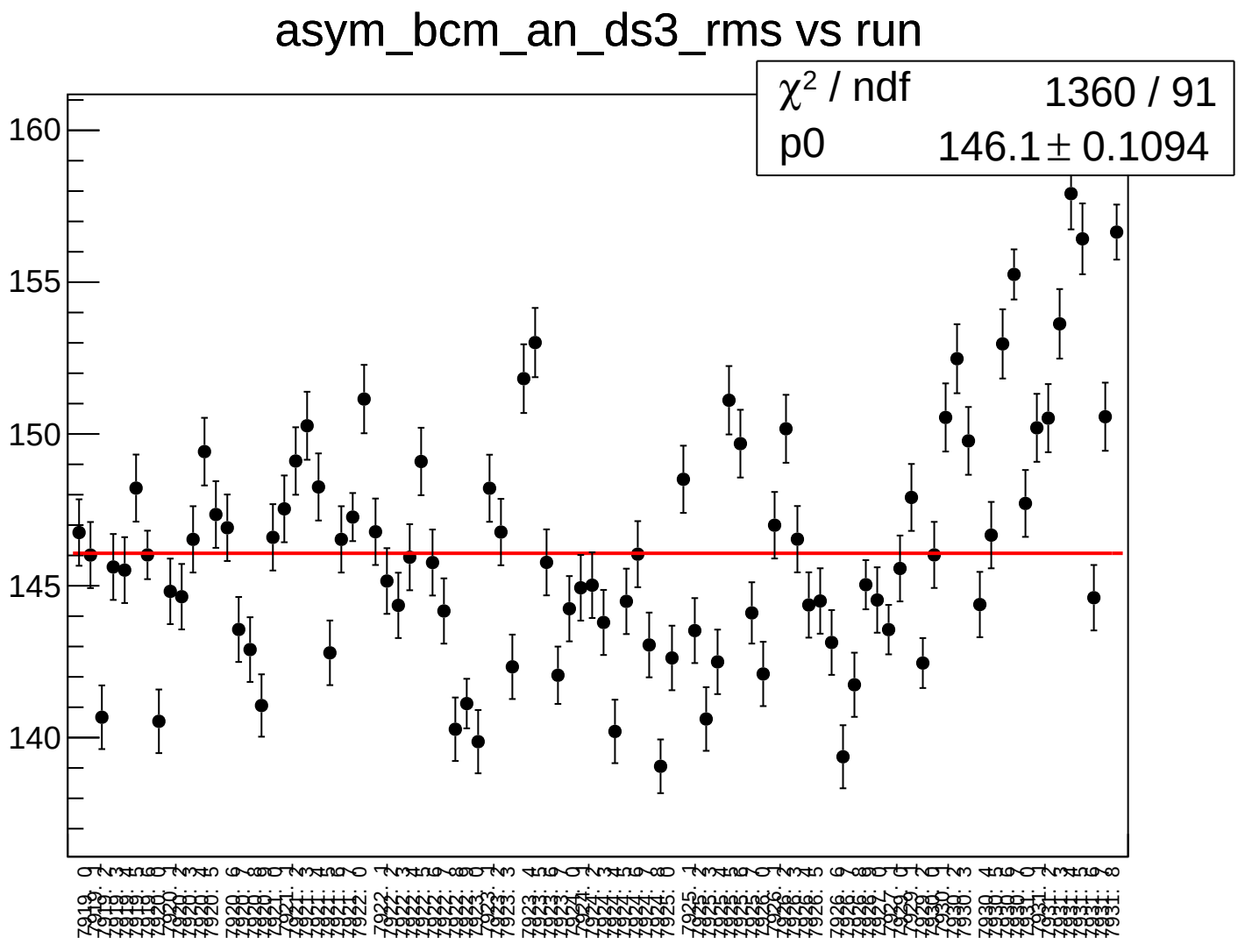

asym_bcm_an_diff_mean vs run
χ² / ndf 90.01 / 91
p0 −3.301 ± 31.44
×10³
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 92
Mean 149.4
Std Dev 0
pull1D
Entries 92
Mean 0.04331
Std Dev 0.9882

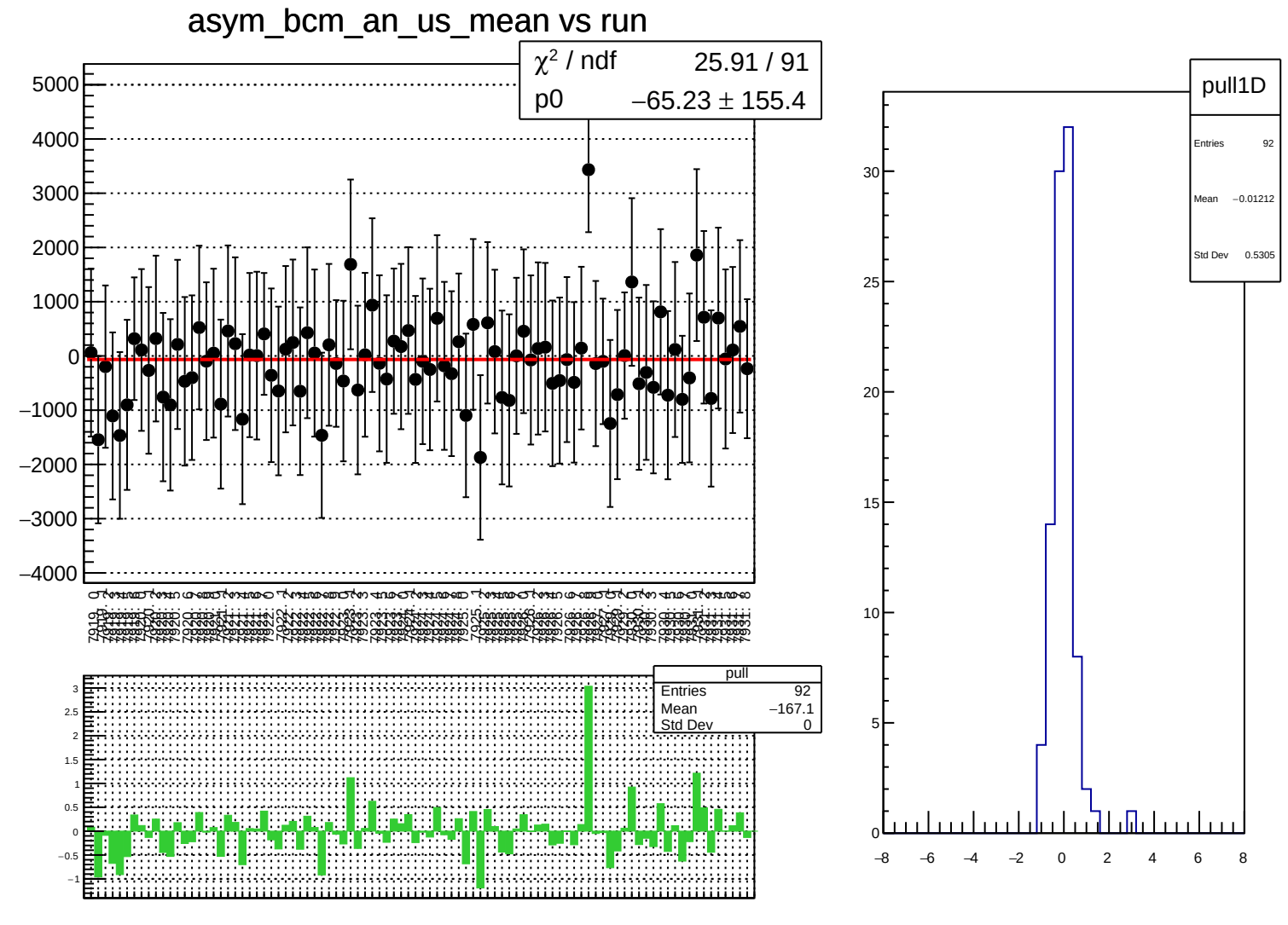

asym_bcm_an_diff_rms vs run
×10^3
700
600
500
400
300
200
100
χ² / ndf 1.994e+05 / 79
p0 2.6e+04 ± 22.23

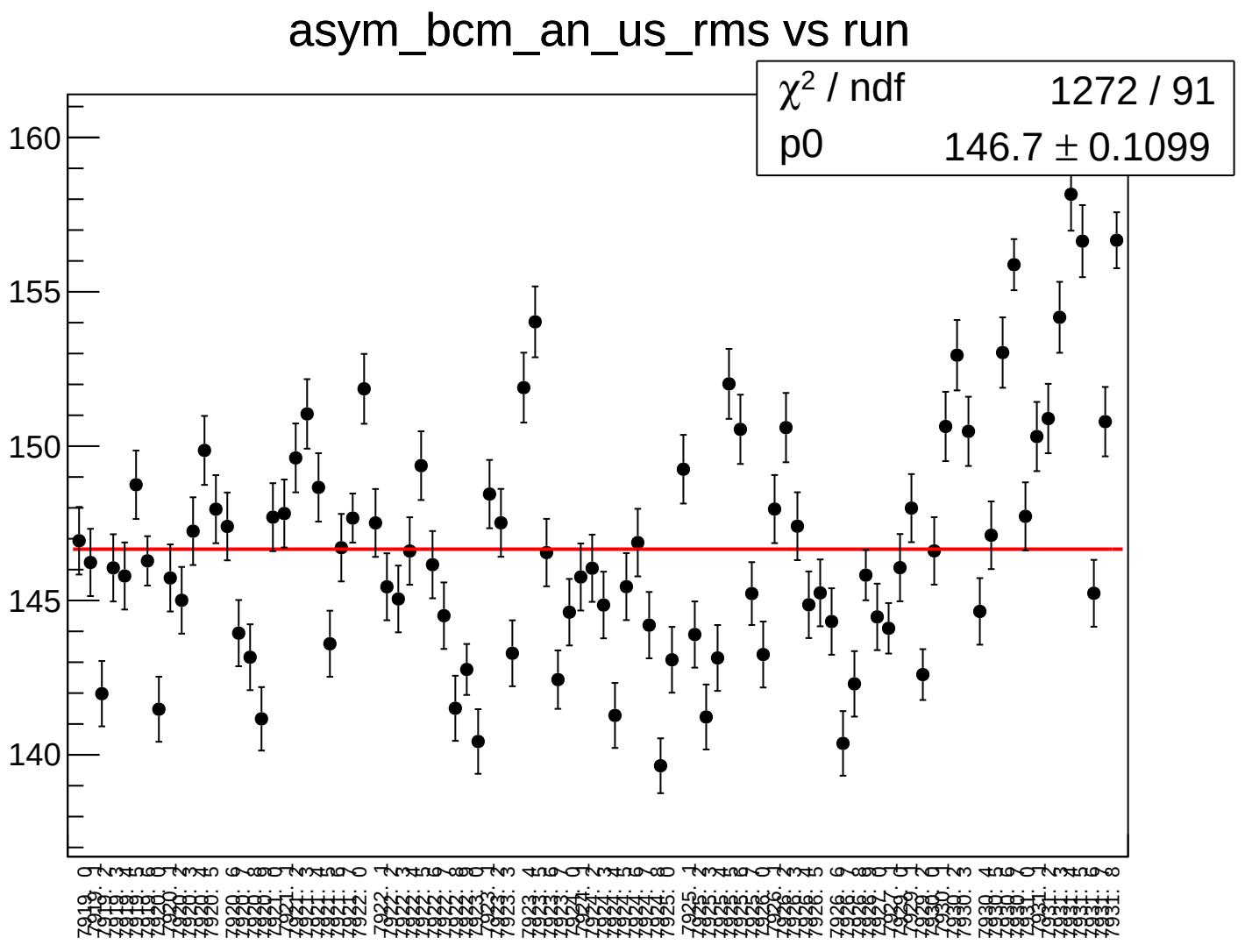

asym_bcm_an_ds_mean vs run
χ² / ndf 28.5 / 91
p0 −84.77 ± 153.9
pull
Entries 92
Mean −225.6
Std Dev 0
pull1D
Entries 92
Mean −0.01082
Std Dev 0.5565

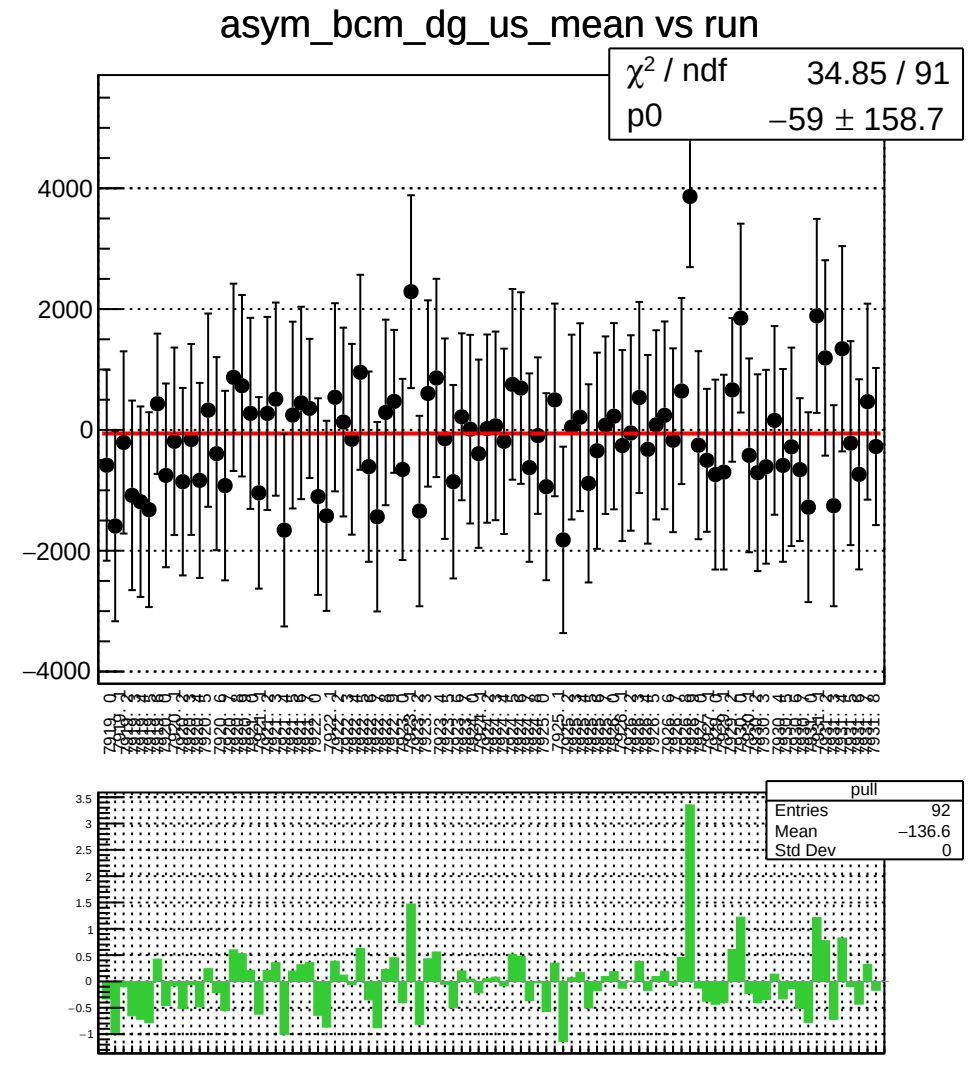

asym_bcm_an_ds_rms vs run
χ² / ndf 1382 / 91
p0 145.3 ± 0.1088
160
155
150
145
140

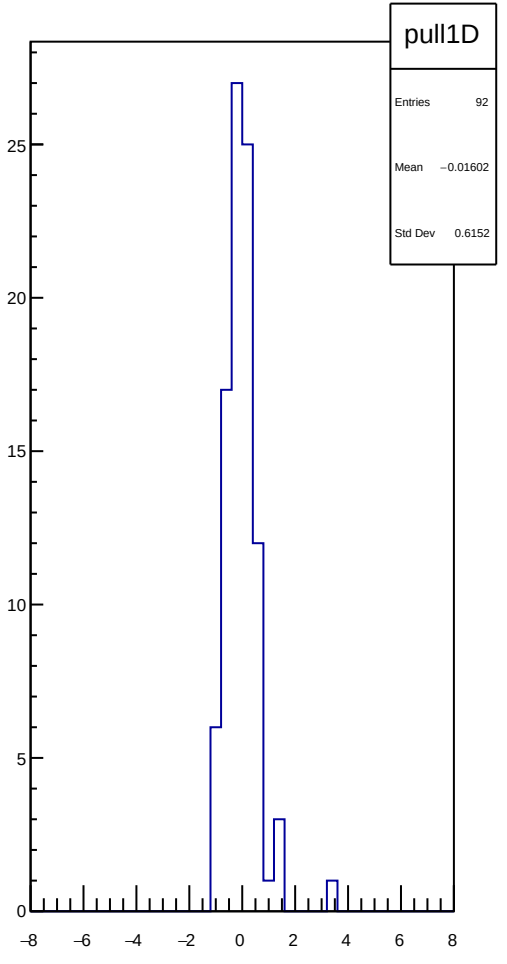

asym_bcm_an_ds3_mean vs run
χ² / ndf 29.02 / 91
p0 −84.27 ± 154.8
pull
Entries 92
Mean −215.6
Std Dev 0
pull1D
Entries 92
Mean −0.01012
Std Dev 0.5615

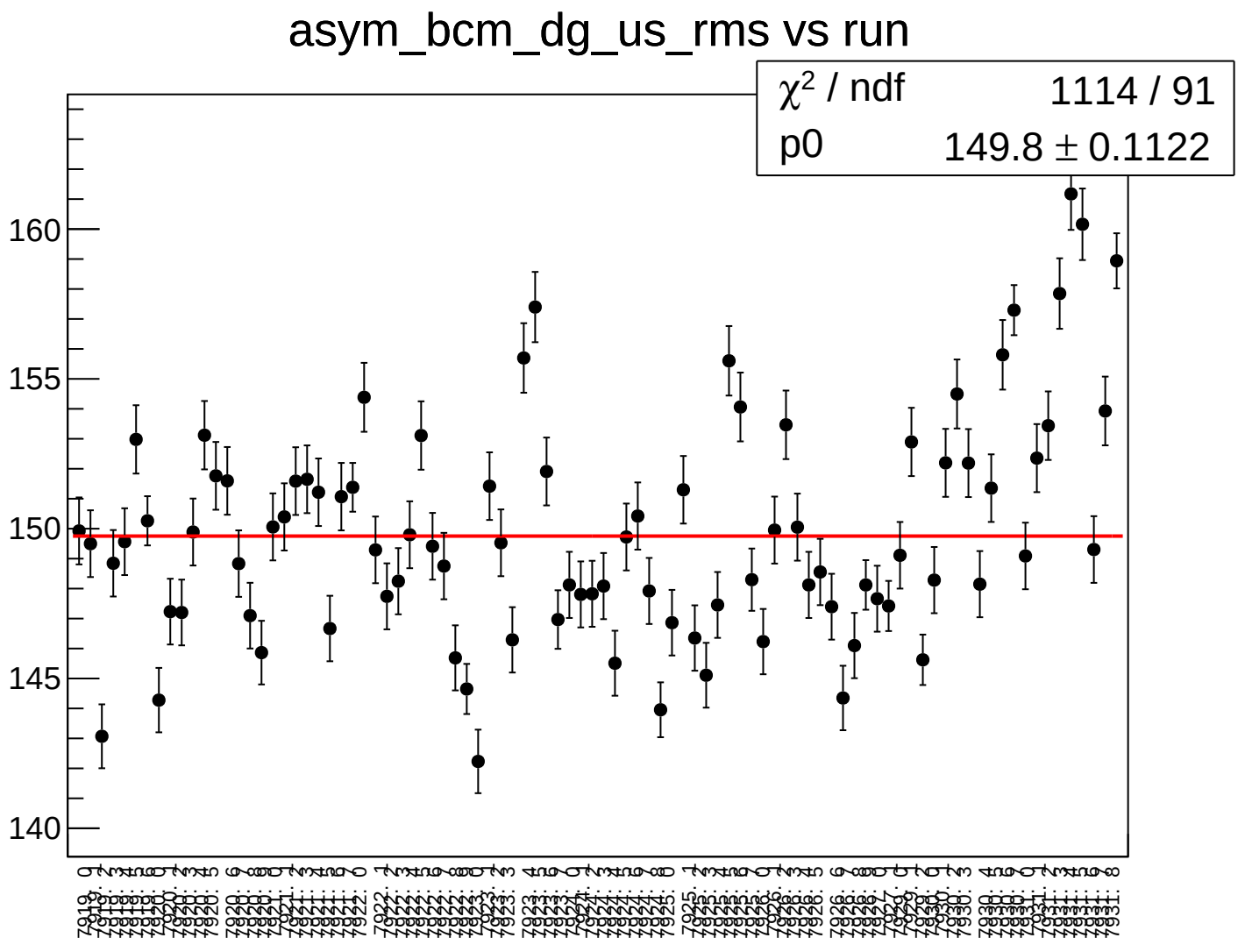

asym_bcm_an_ds3_rms vs run
χ² / ndf 1360 / 91
p0 146.1 ± 0.1094
160
155
150
145
140

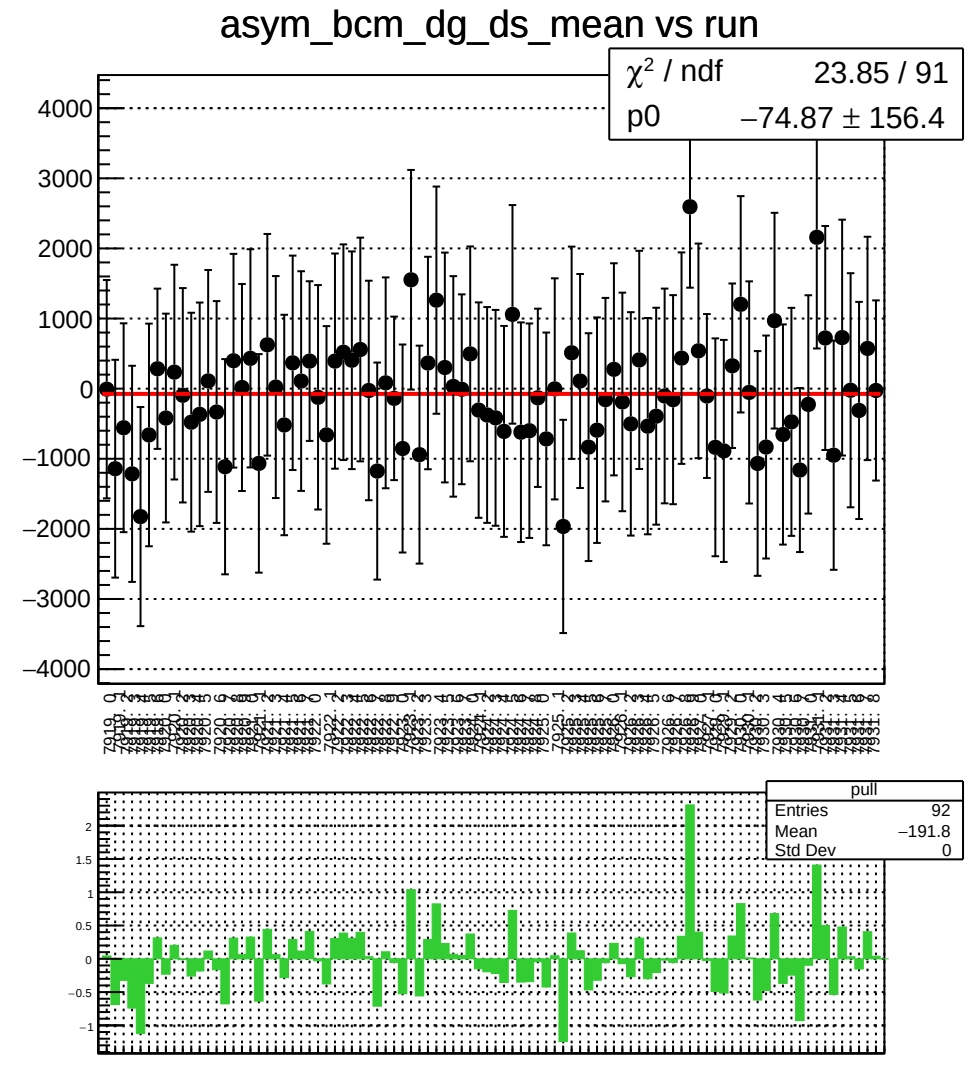

asym_bcm_an_us_mean vs run
χ² / ndf 25.91 / 91
p0 −65.23 ± 155.4
pull
Entries 92
Mean −167.1
Std Dev 0
pull1D
Entries 92
Mean −0.01212
Std Dev 0.5305

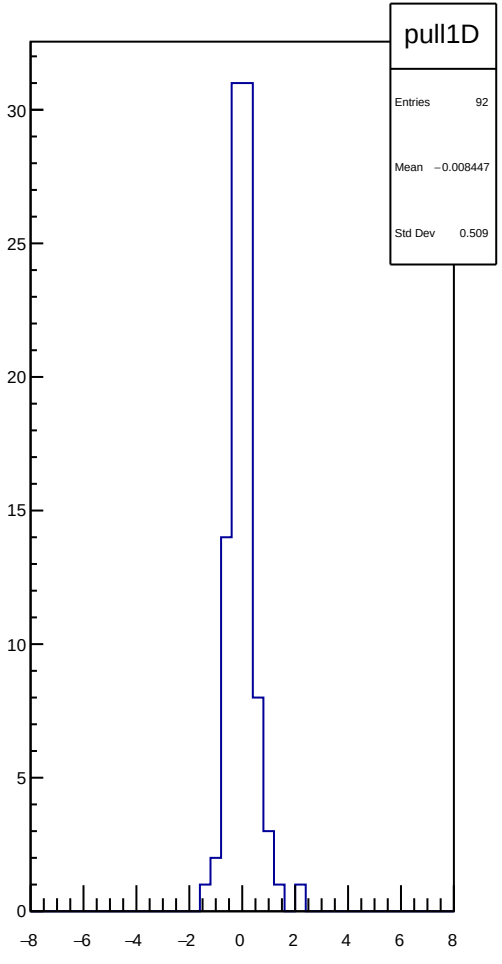

asym_bcm_an_us_rms vs run
χ² / ndf 1272 / 91
p0 146.7 ± 0.1099
160
155
150
145
140

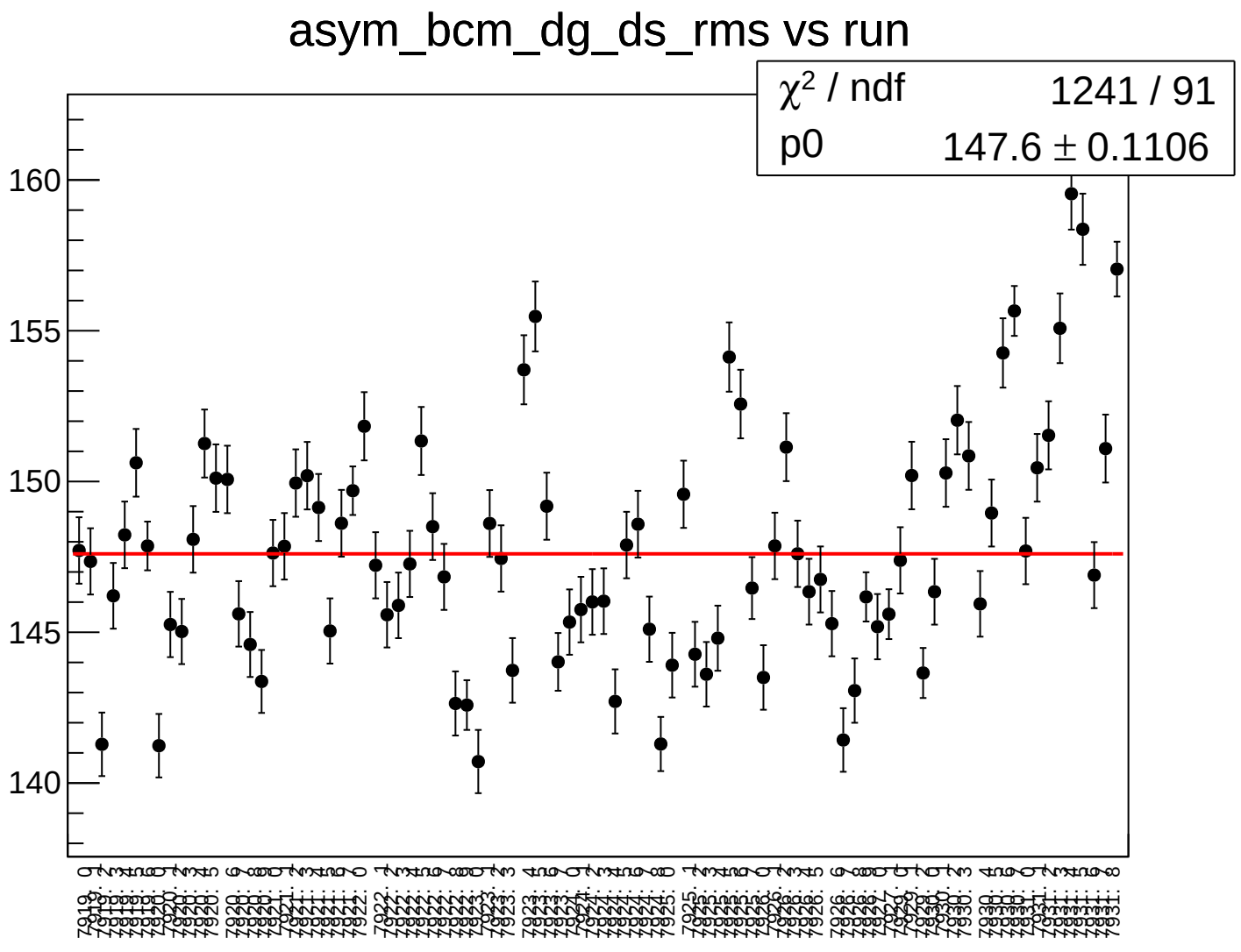

asym_bcm_dg_us_mean vs run
χ² / ndf 34.85 / 91
p0 −59 ± 158.7
4000
2000
0
−2000
−4000
pull
Entries 92
Mean −136.6
Std Dev 0
3.5
3
2.5
2
1.5
1
0.5
0
−0.5
−1

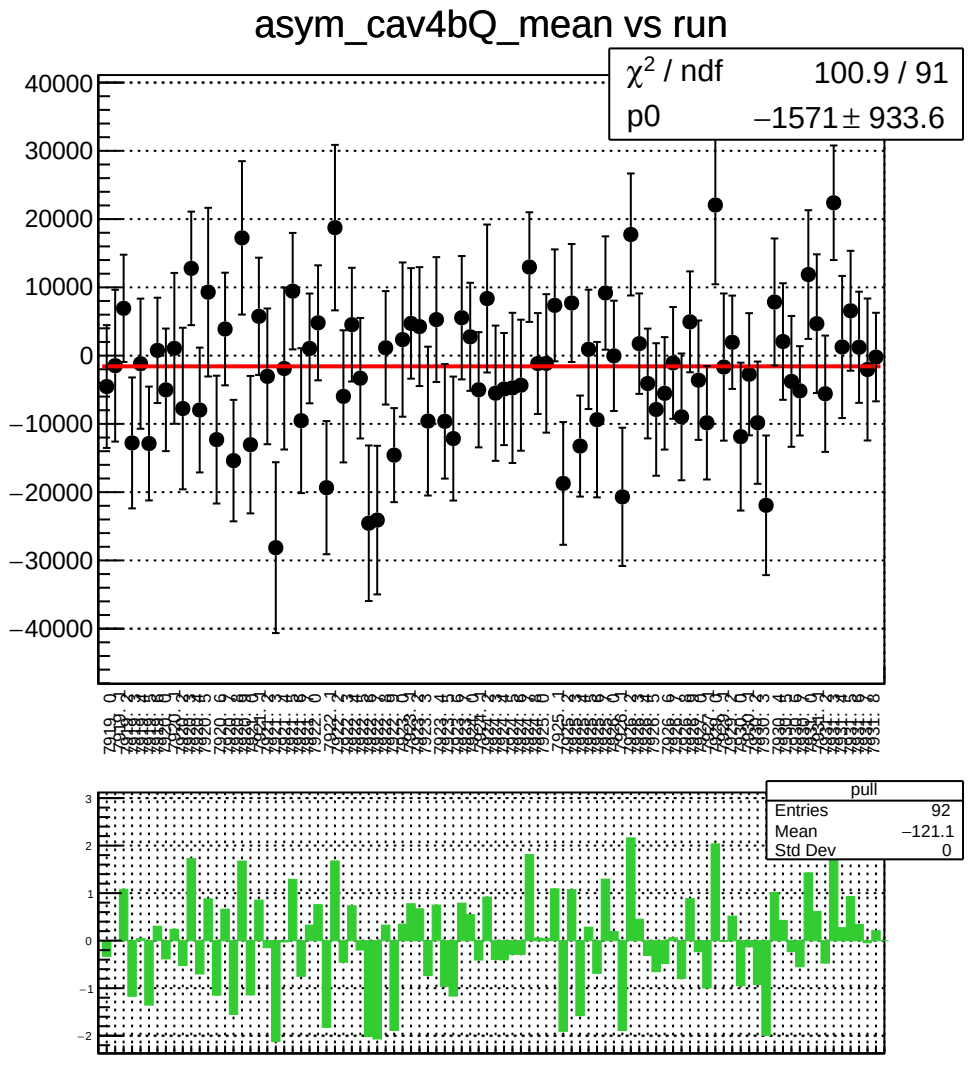

pull1D
Entries 92
Mean −0.01602
Std Dev 0.6152
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

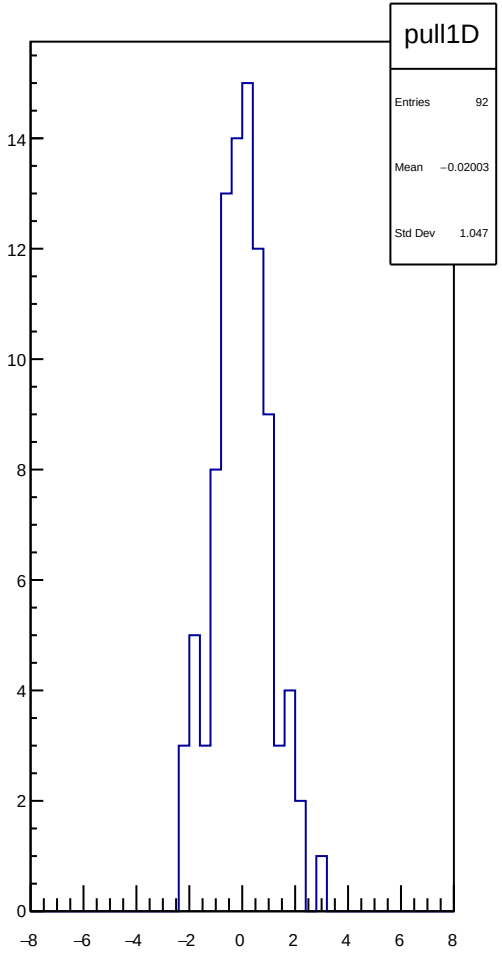

asym_bcm_dg_us_rms vs run
χ² / ndf 1114 / 91
p0 149.8 ± 0.1122
160
155
150
145
140

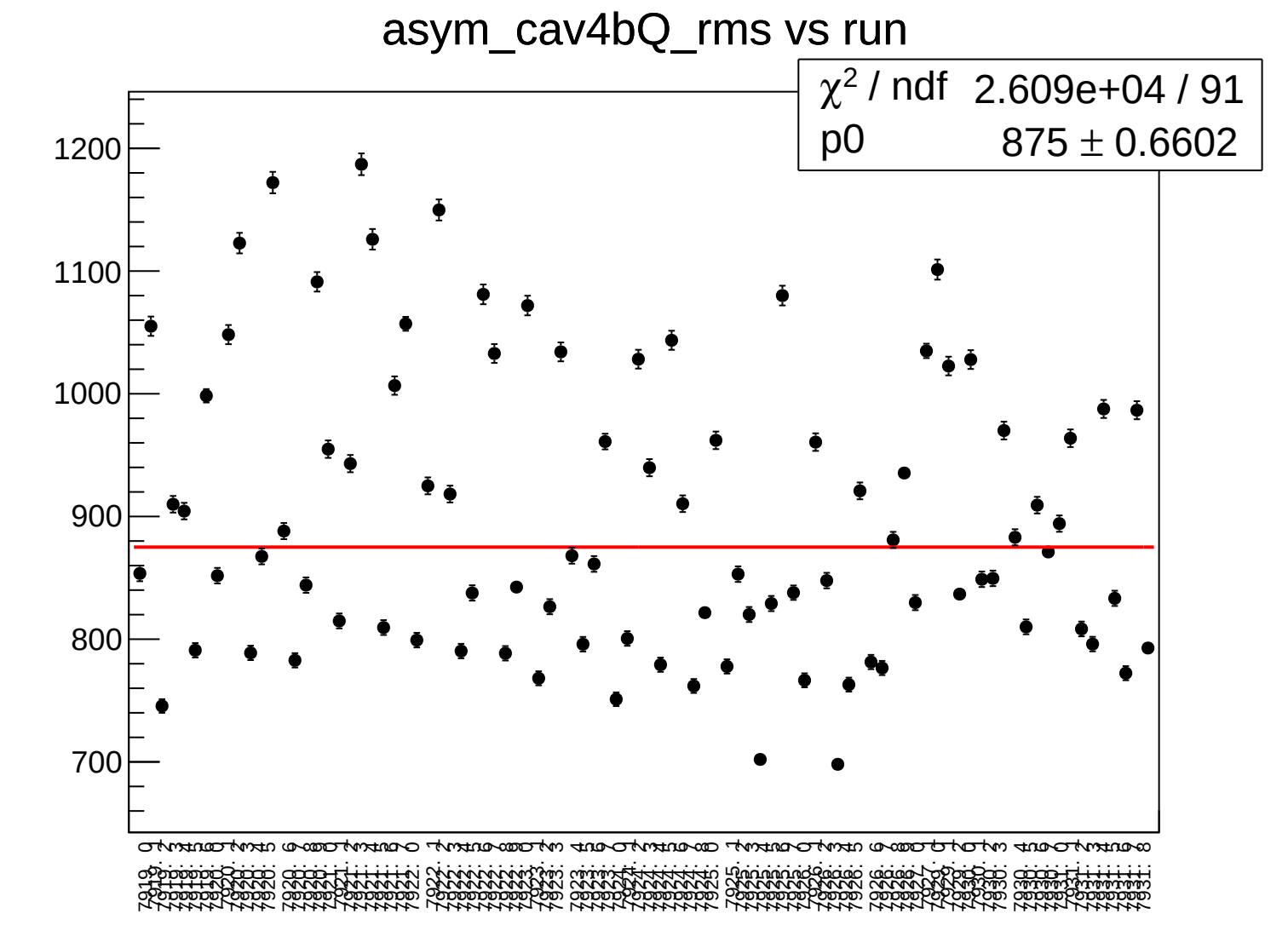

asym_bcm_dg_ds_mean vs run
χ² / ndf 23.85 / 91
p0 −74.87 ± 156.4
pull
Entries 92
Mean −191.8
Std Dev 0

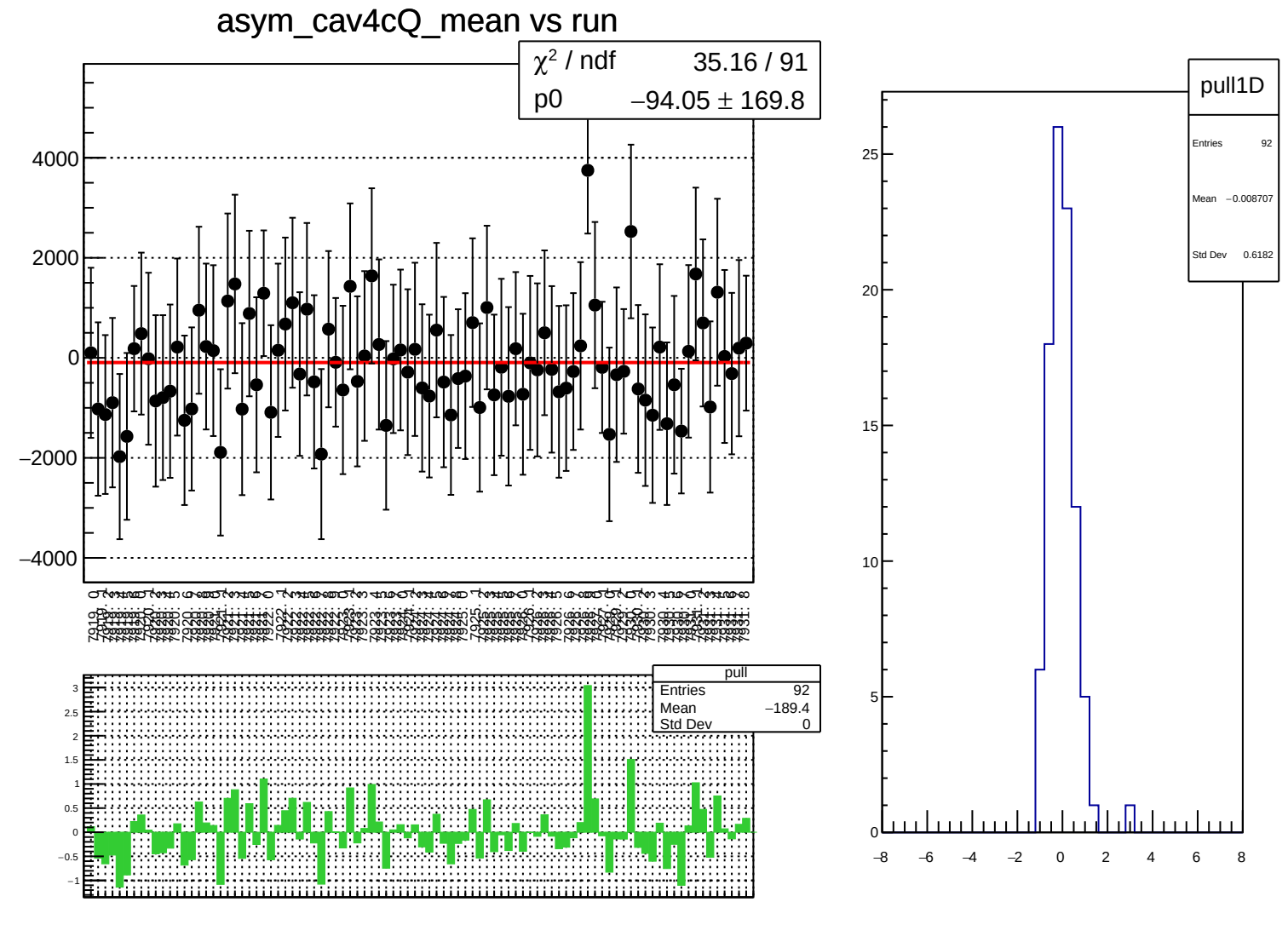

pull1D
Entries 92
Mean −0.008447
Std Dev 0.509

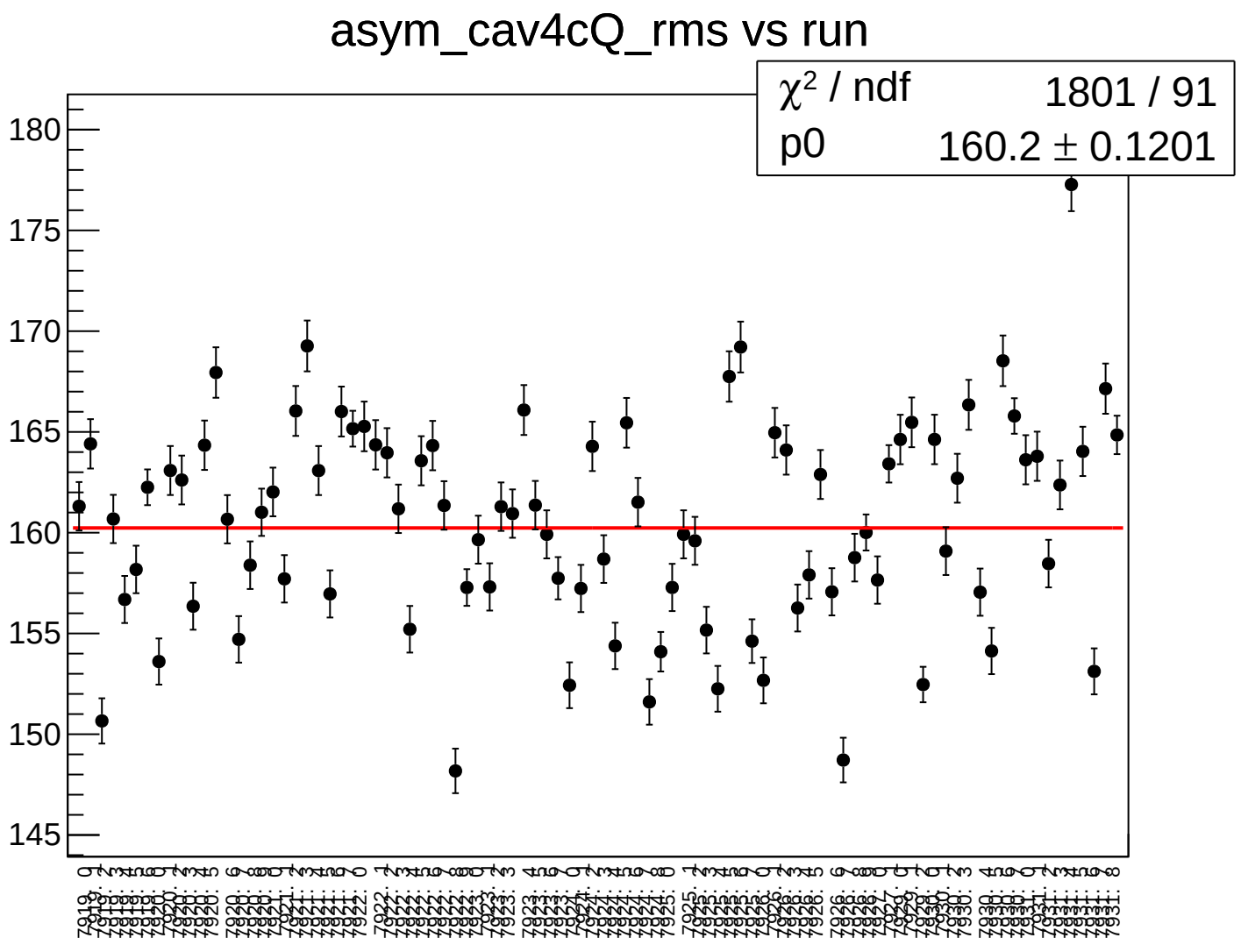

asym_bcm_dg_ds_rms vs run
χ² / ndf 1241 / 91
p0 147.6 ± 0.1106
160
155
150
145
140

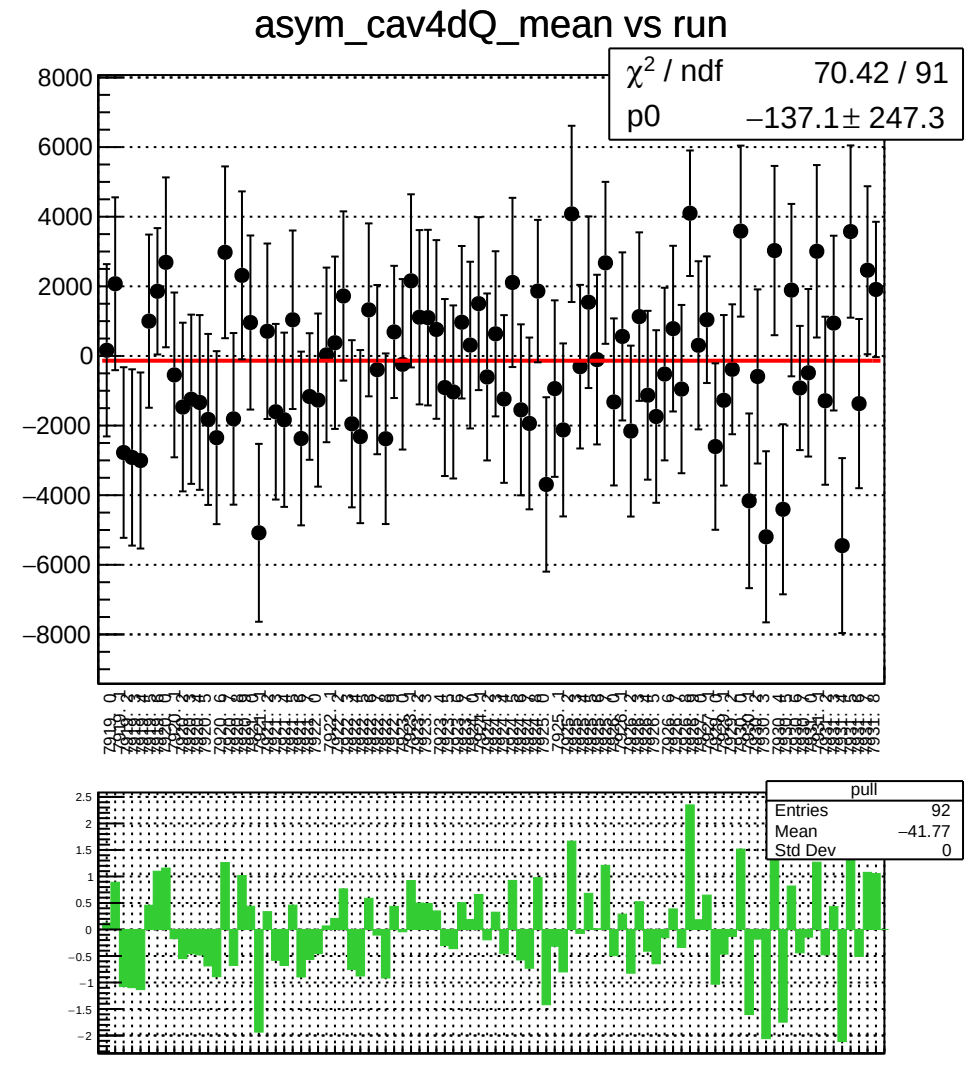

asym_cav4bQ_mean vs run
χ² / ndf 100.9 / 91
p0 −1571 ± 933.6
pull
Entries 92
Mean −121.1
Std Dev 0

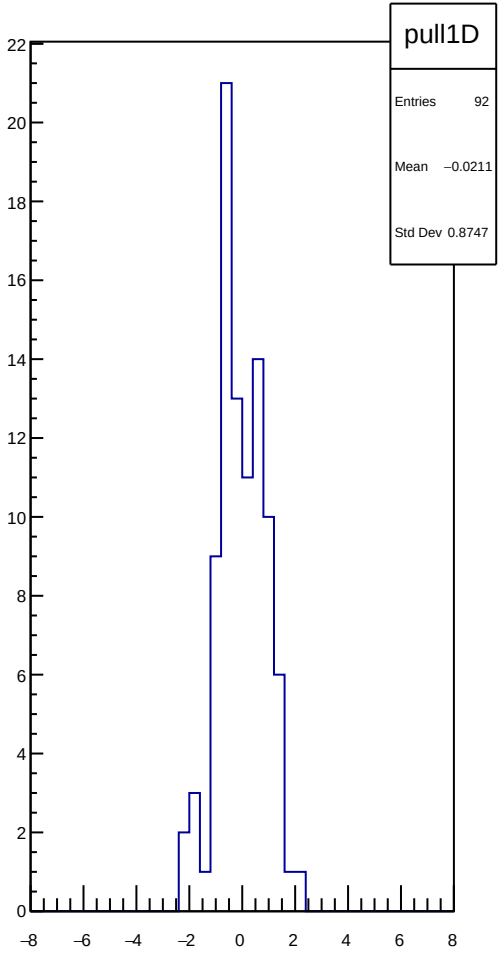

pull1D
Entries 92
Mean −0.02003
Std Dev 1.047

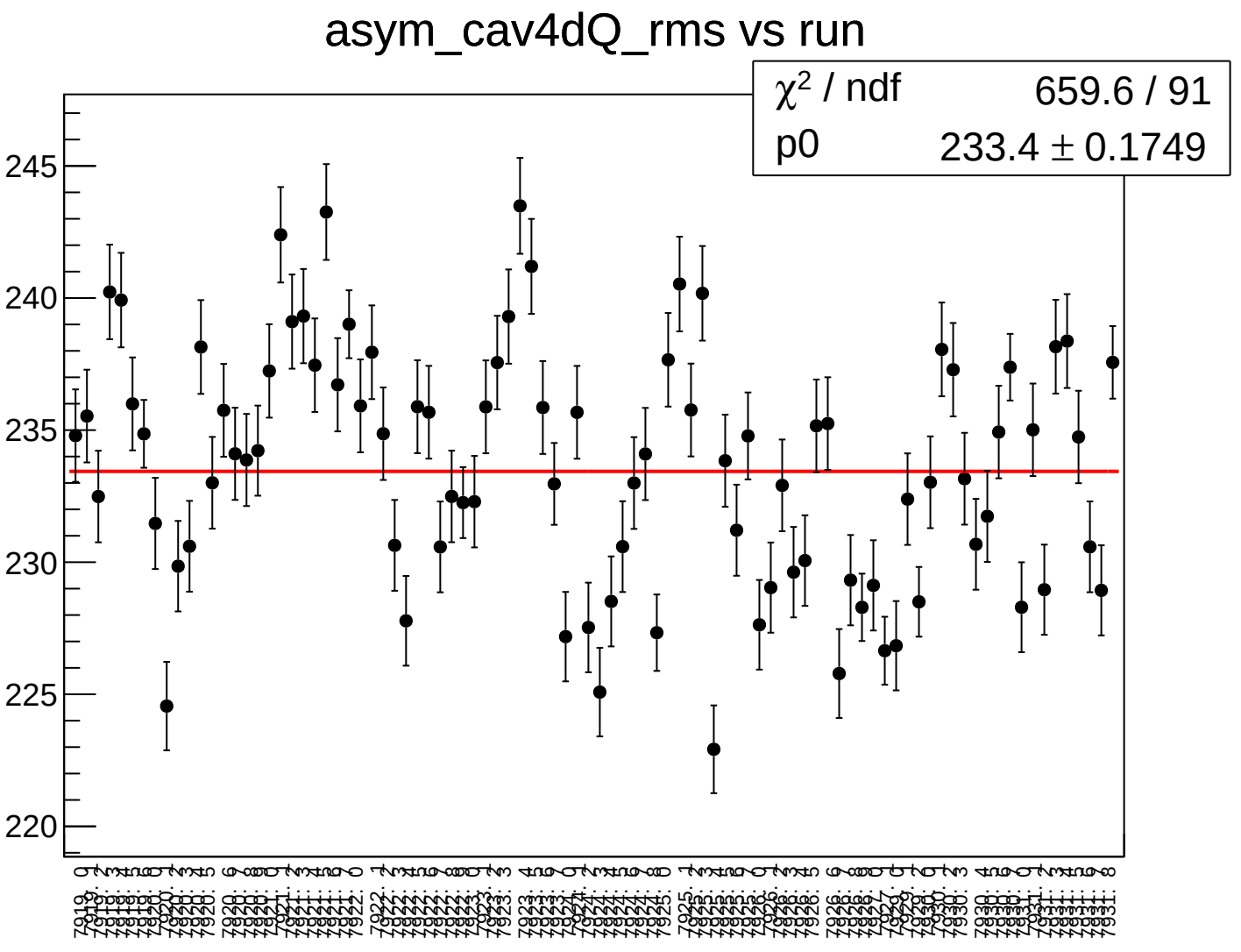

asym_cav4bQ_rms vs run
χ² / ndf 2.609e+04 / 91
p0 875 ± 0.6602
1200
1100
1000
900
800
700

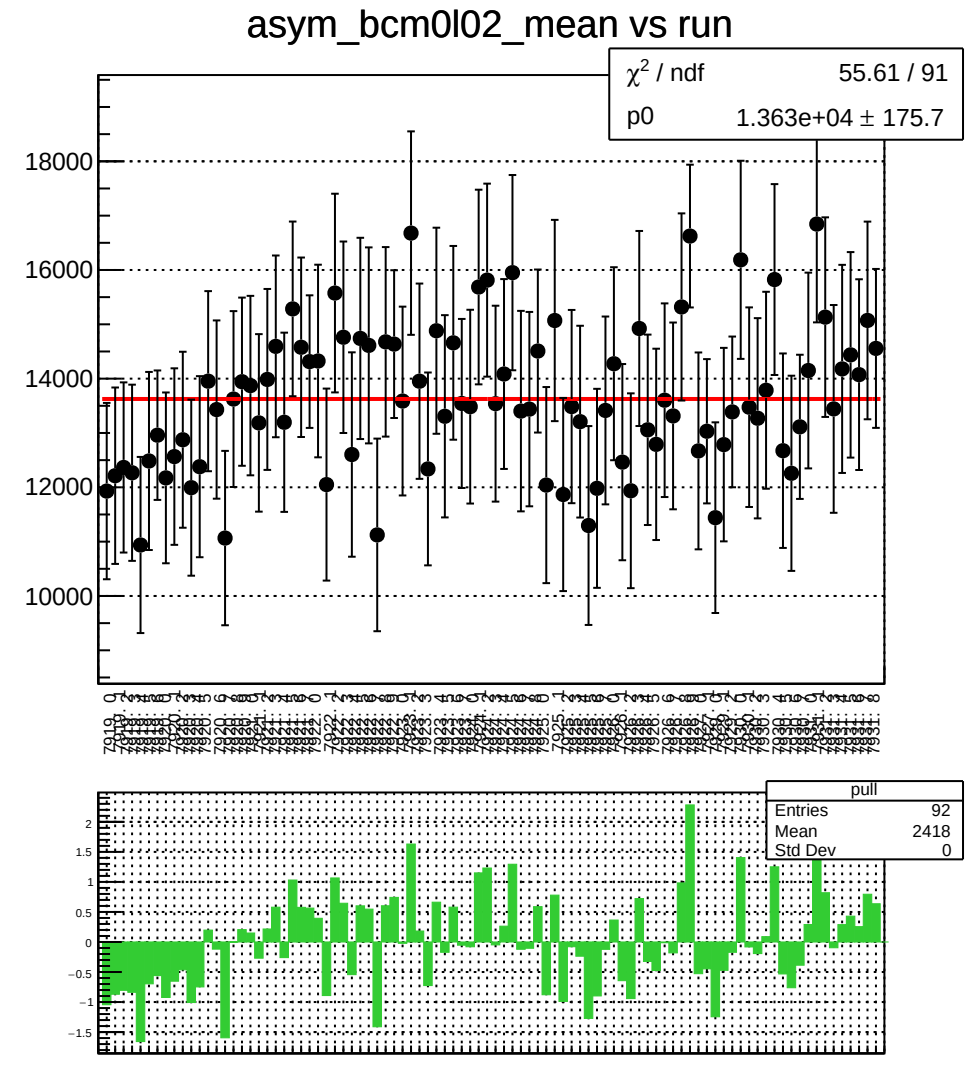

asym_cav4cQ_mean vs run
χ² / ndf 35.16 / 91
p0 −94.05 ± 169.8
4000
2000
0
−2000
−4000
pull
Entries 92
Mean −189.4
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 92
Mean −0.008707
Std Dev 0.6182
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

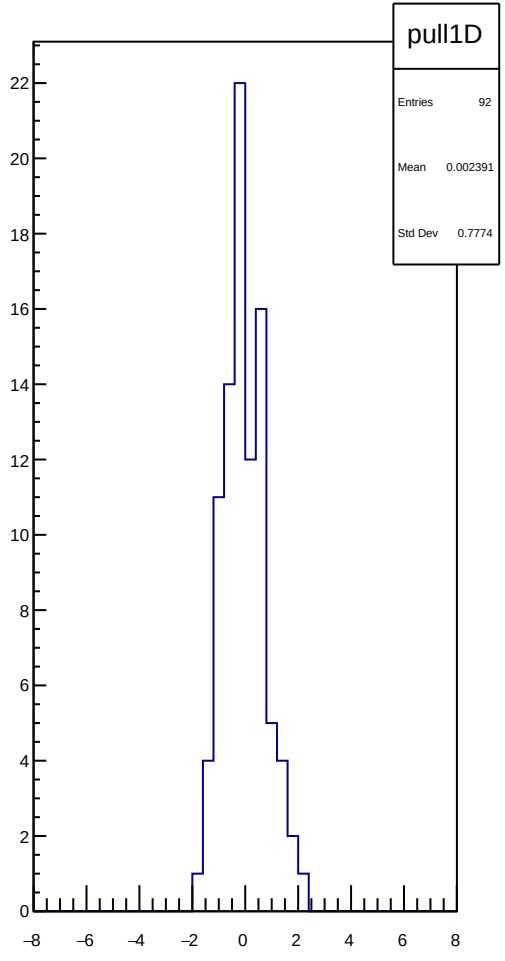

asym_cav4cQ_rms vs run
χ² / ndf 1801 / 91
p0 160.2 ± 0.1201
180
175
170
165
160
155
150
145

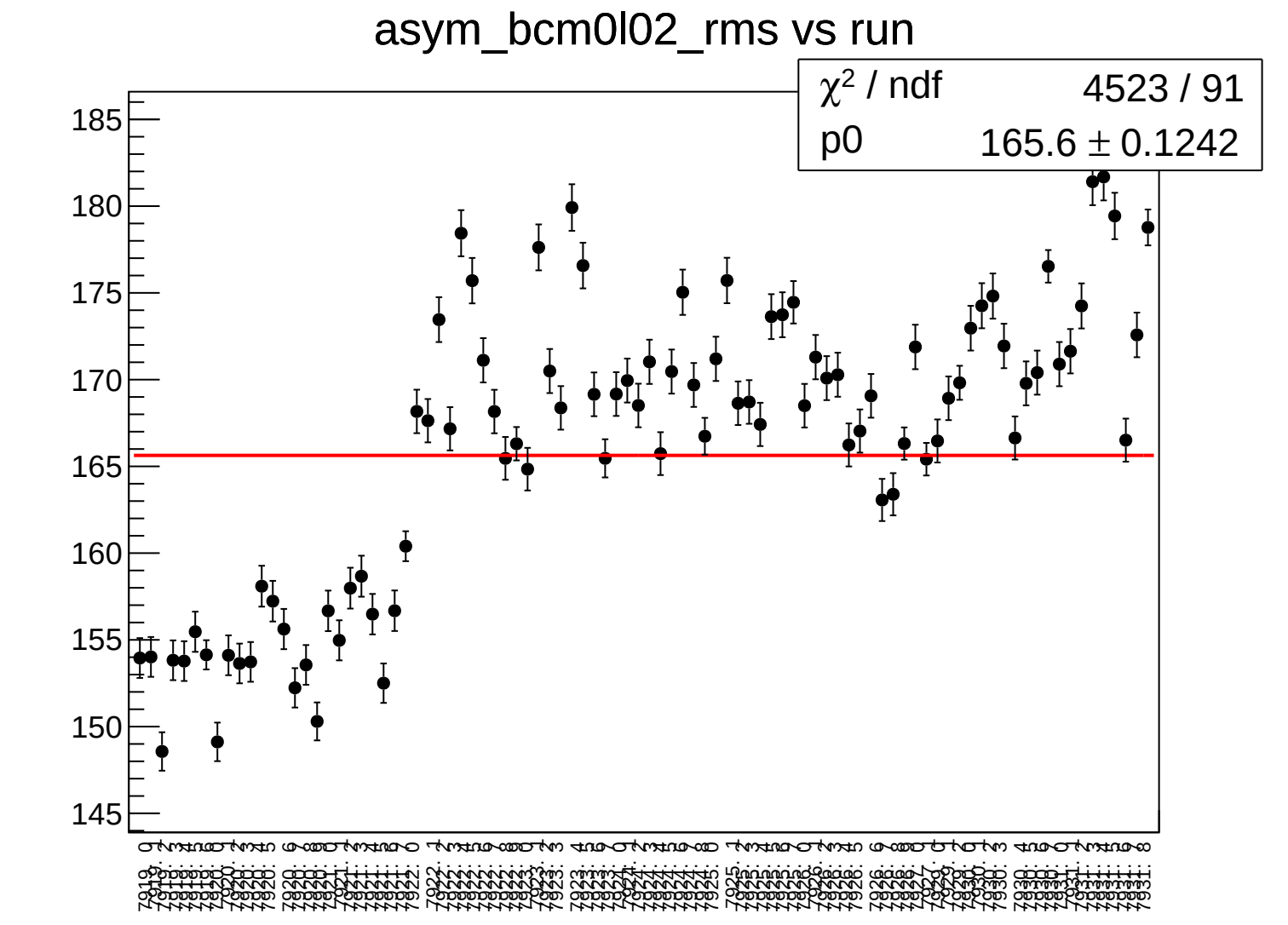

asym_cav4dQ_mean vs run
χ² / ndf 70.42 / 91
p0 −137.1± 247.3
pull
Entries 92
Mean −41.77
Std Dev 0

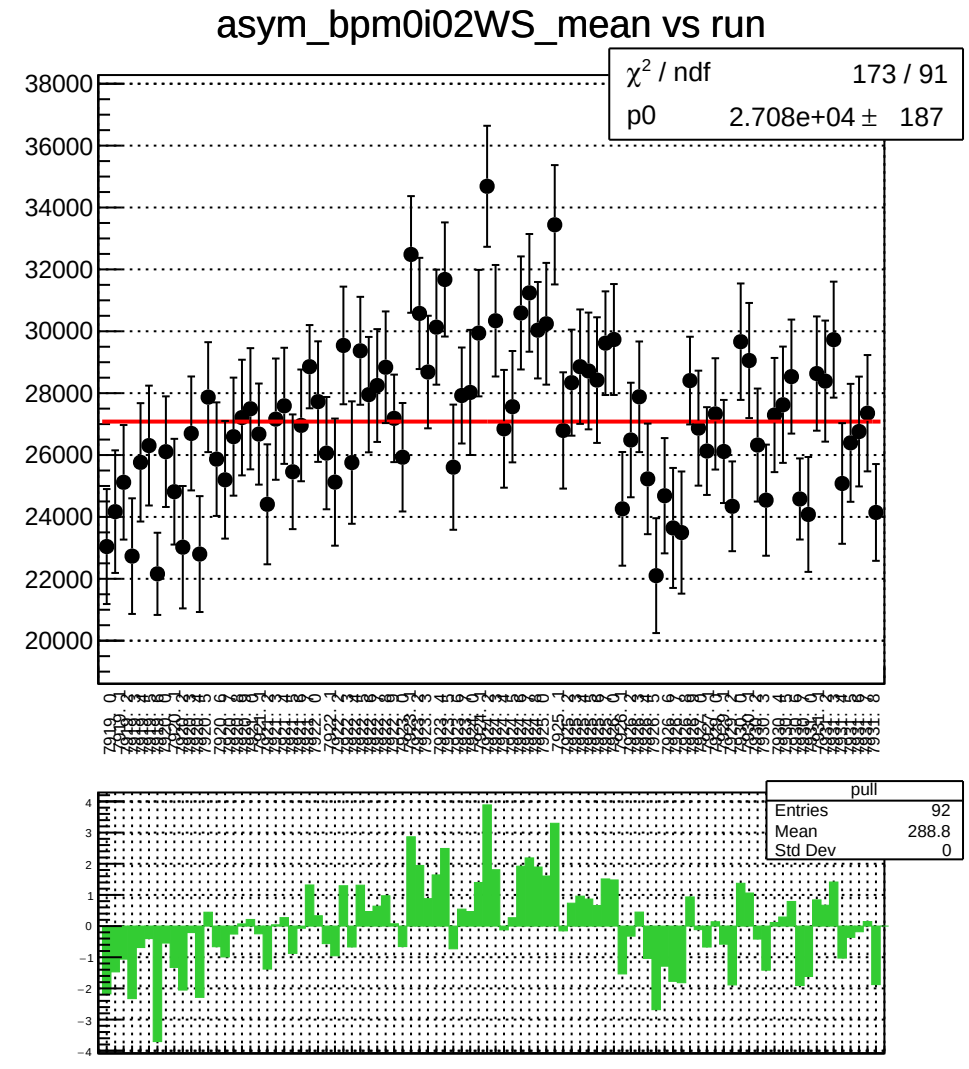

pull1D
Entries 92
Mean −0.0211
Std Dev 0.8747

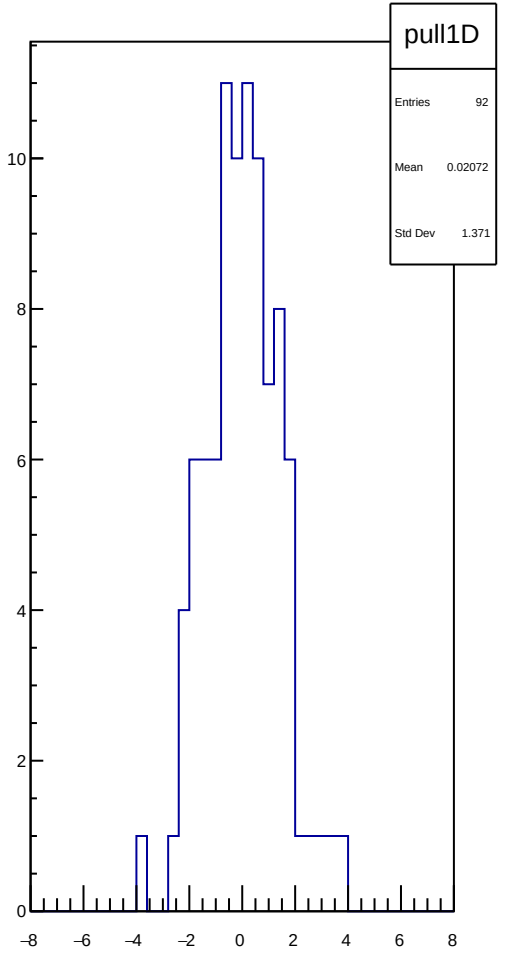

asym_cav4dQ_rms vs run
χ² / ndf 659.6 / 91
p0 233.4 ± 0.1749
245
240
235
230
225
220

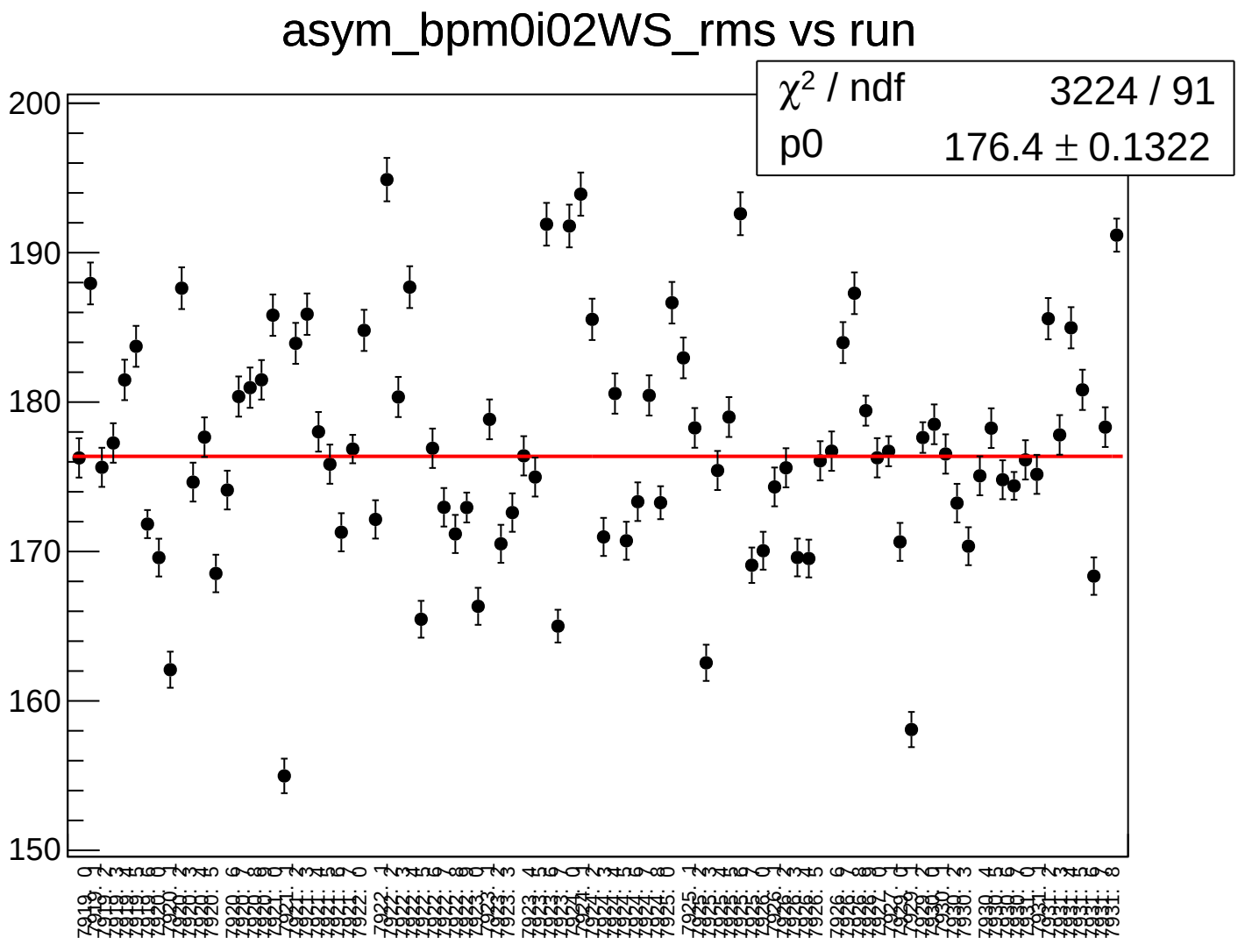

asym_bcm0l02_mean vs run
χ² / ndf 55.61 / 91
p0 1.363e+04 ± 175.7
18000
16000
14000
12000
10000
pull
Entries 92
Mean 2418
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

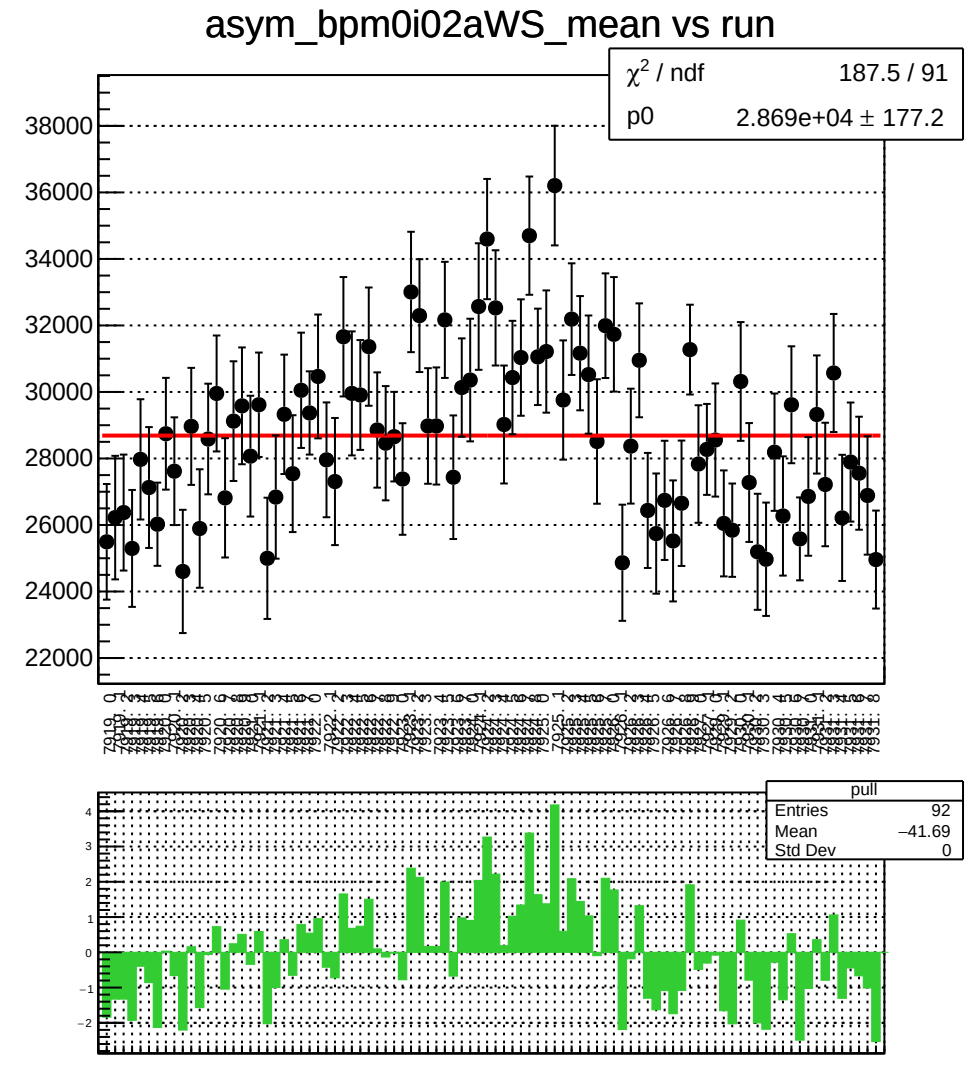

pull1D
Entries 92
Mean 0.002391
Std Dev 0.7774
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

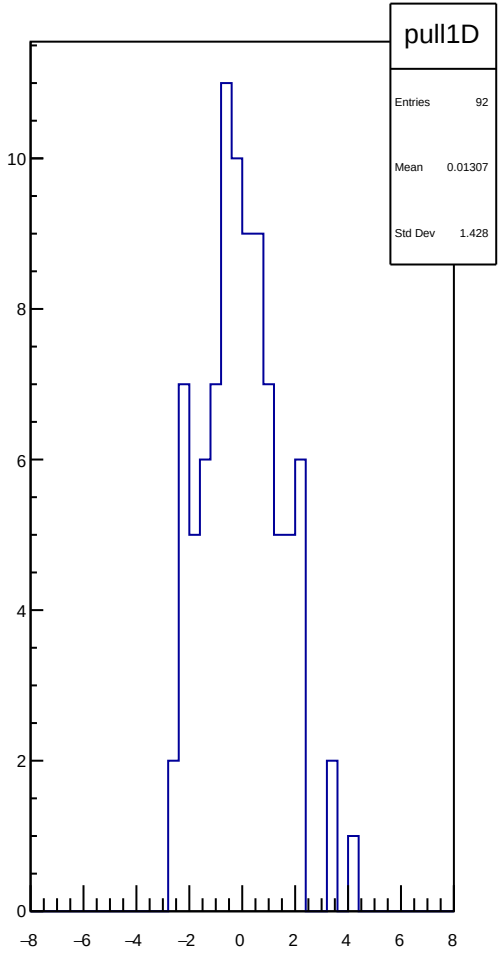

asym_bcm0l02_rms vs run
χ² / ndf 4523 / 91
p0 165.6 ± 0.1242
185
180
175
170
165
160
155
150
145

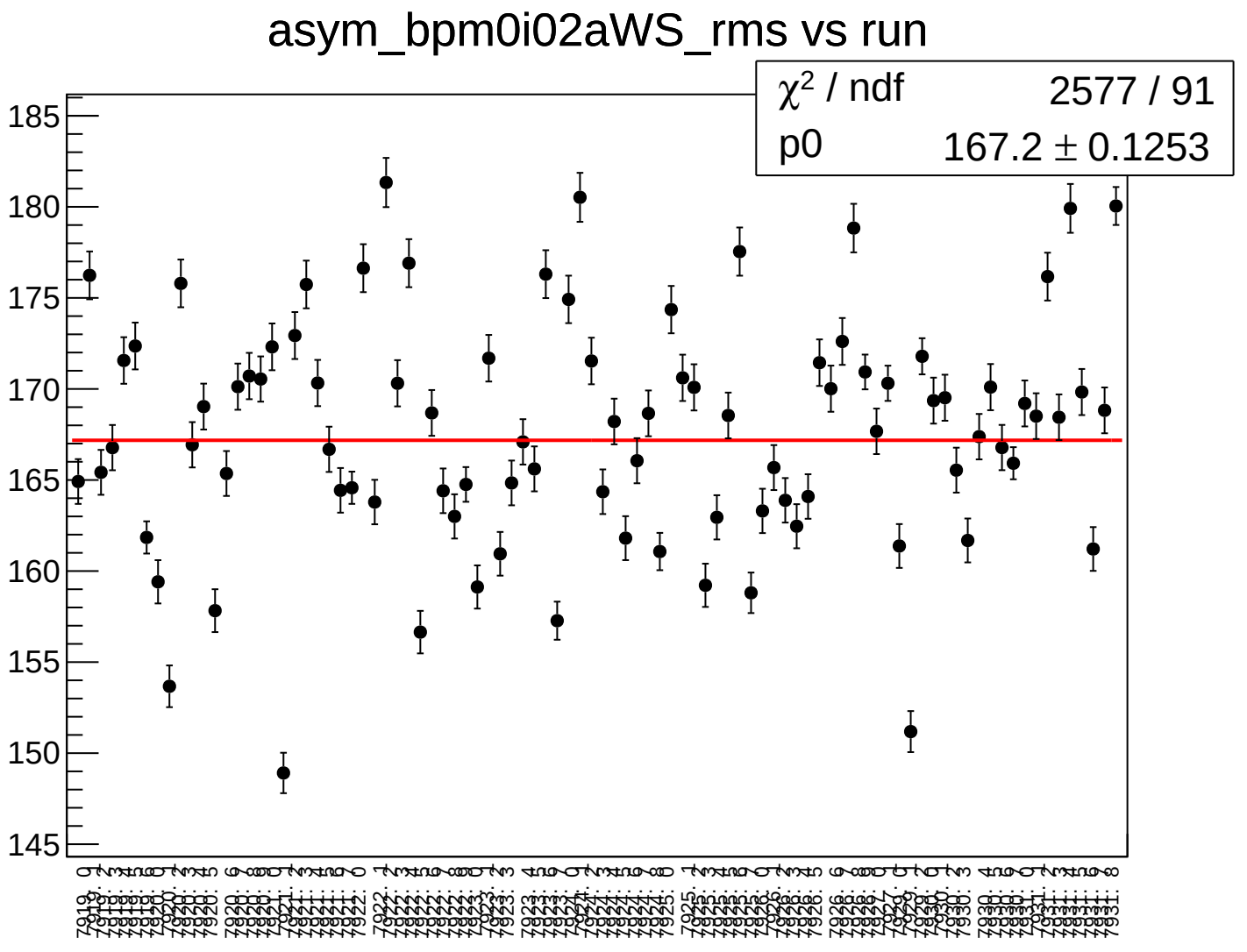

asym_bpm0i02WS_mean vs run
χ² / ndf 173 / 91
p0 2.708e+04 ± 187
pull
Entries 92
Mean 288.8
Std Dev 0

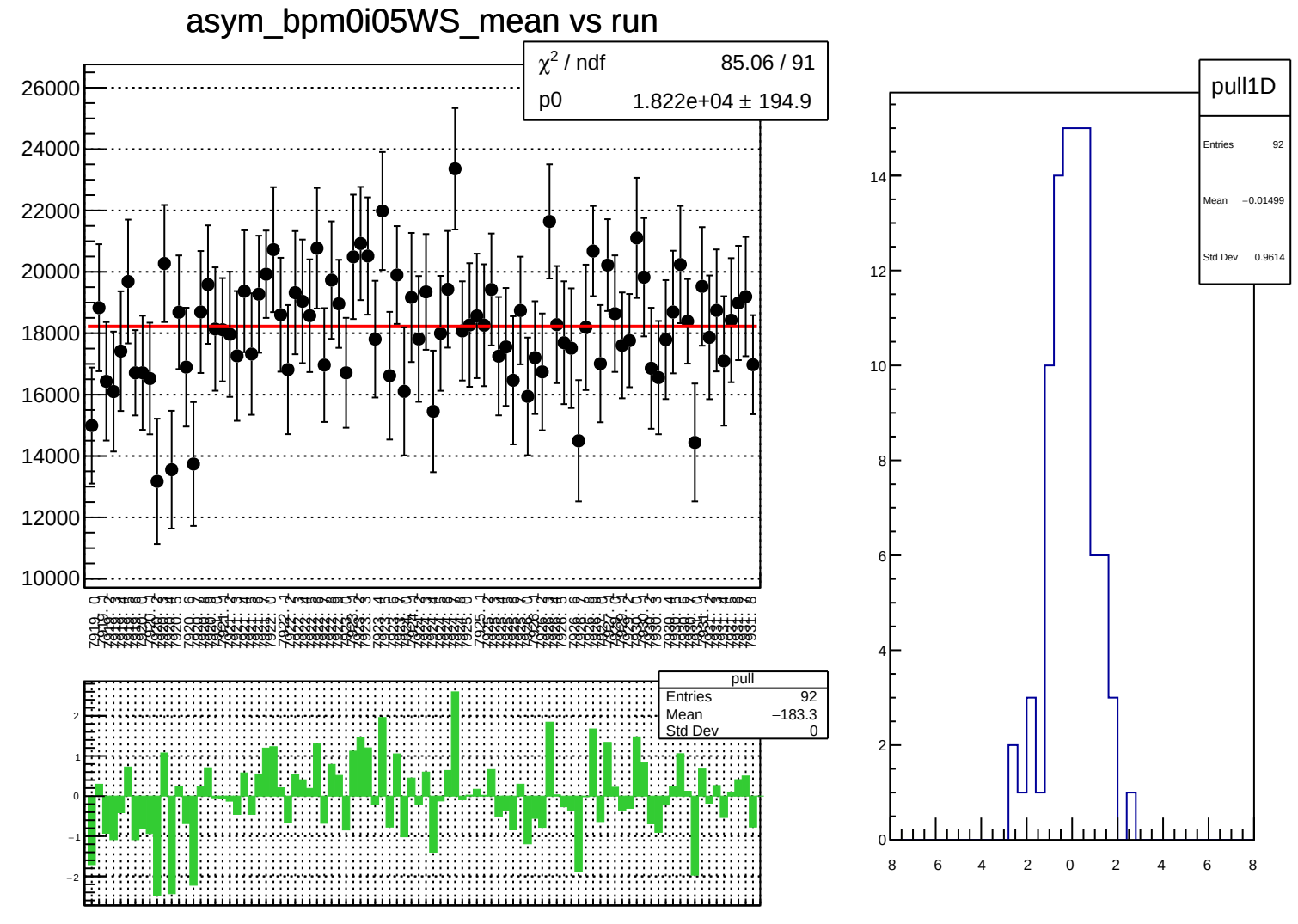

pull1D
Entries 92
Mean 0.02072
Std Dev 1.371

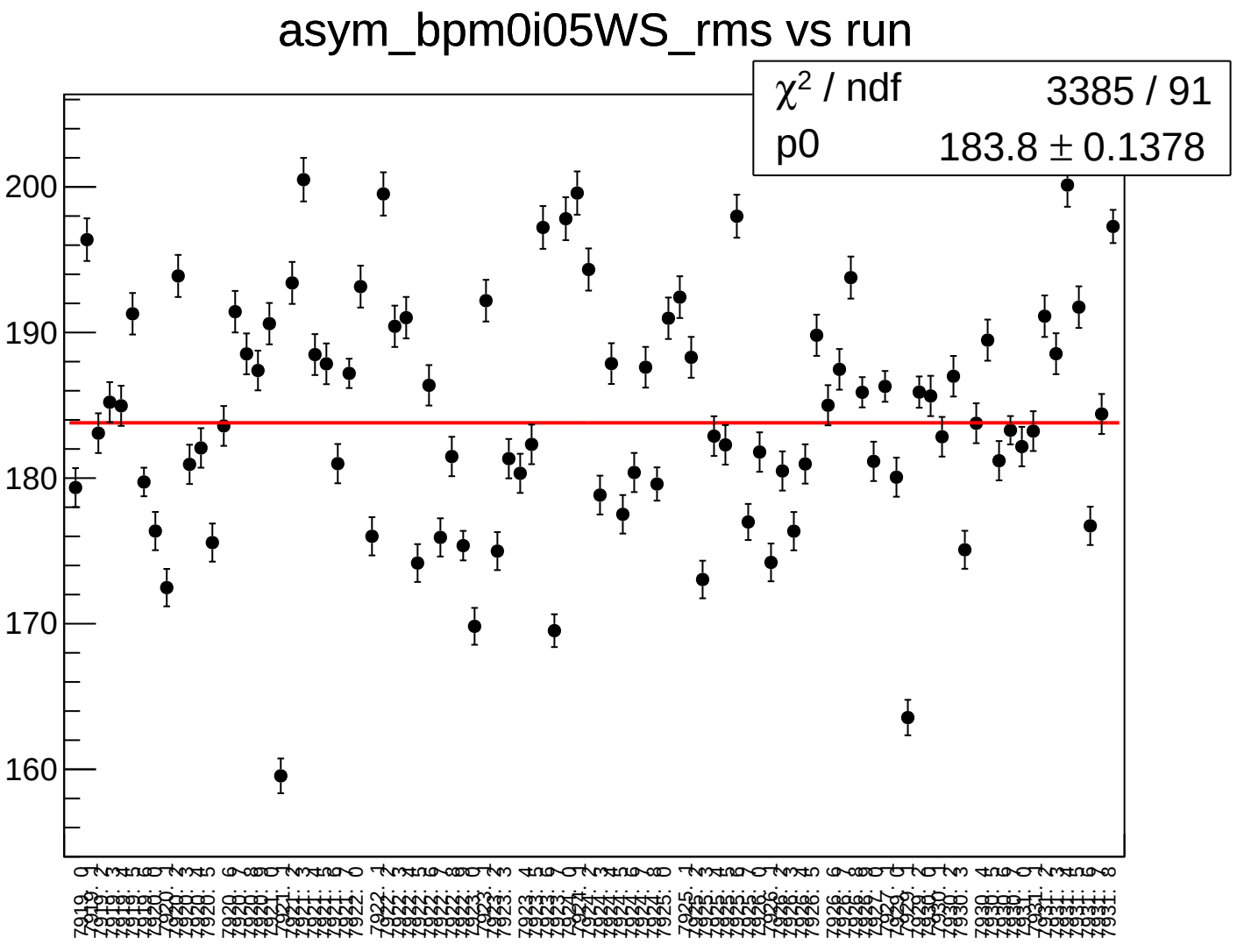

asym_bpm0i02WS_rms vs run
χ² / ndf 3224 / 91
p0 176.4 ± 0.1322
200
190
180
170
160
150

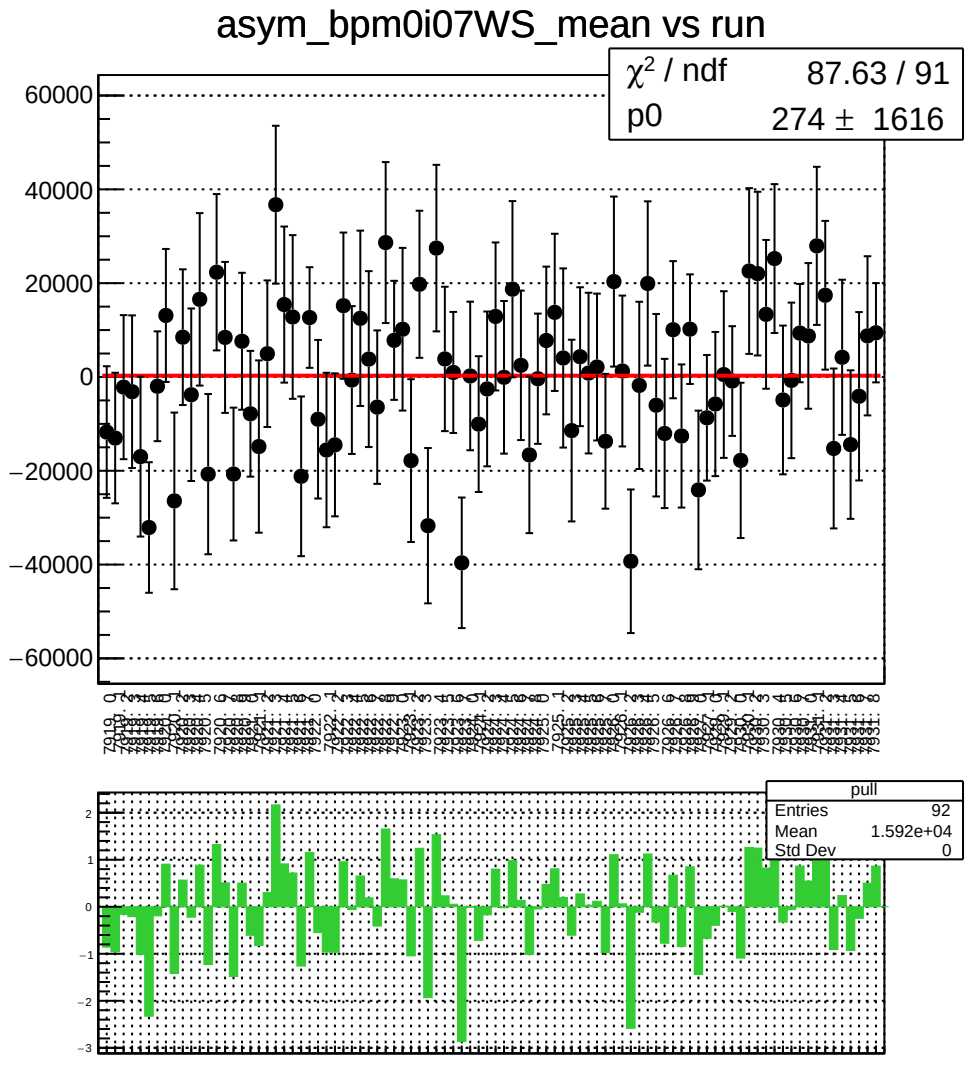

asym_bpm0i02aWS_mean vs run
χ² / ndf 187.5 / 91
p0 2.869e+04 ± 177.2
38000
36000
34000
32000
30000
28000
26000
24000
22000
pull
Entries 92
Mean −41.69
Std Dev 0
4
3
2
1
0
−1
−2

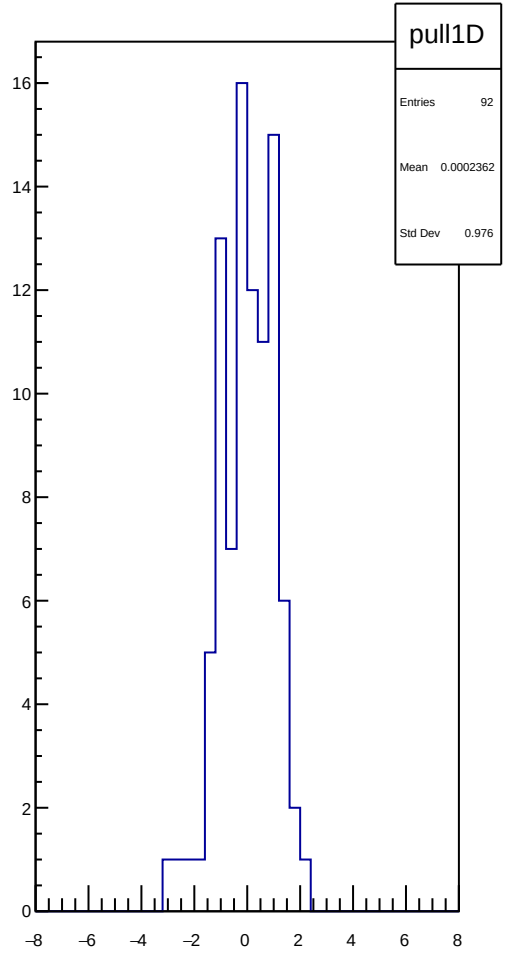

pull1D
Entries 92
Mean 0.01307
Std Dev 1.428
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

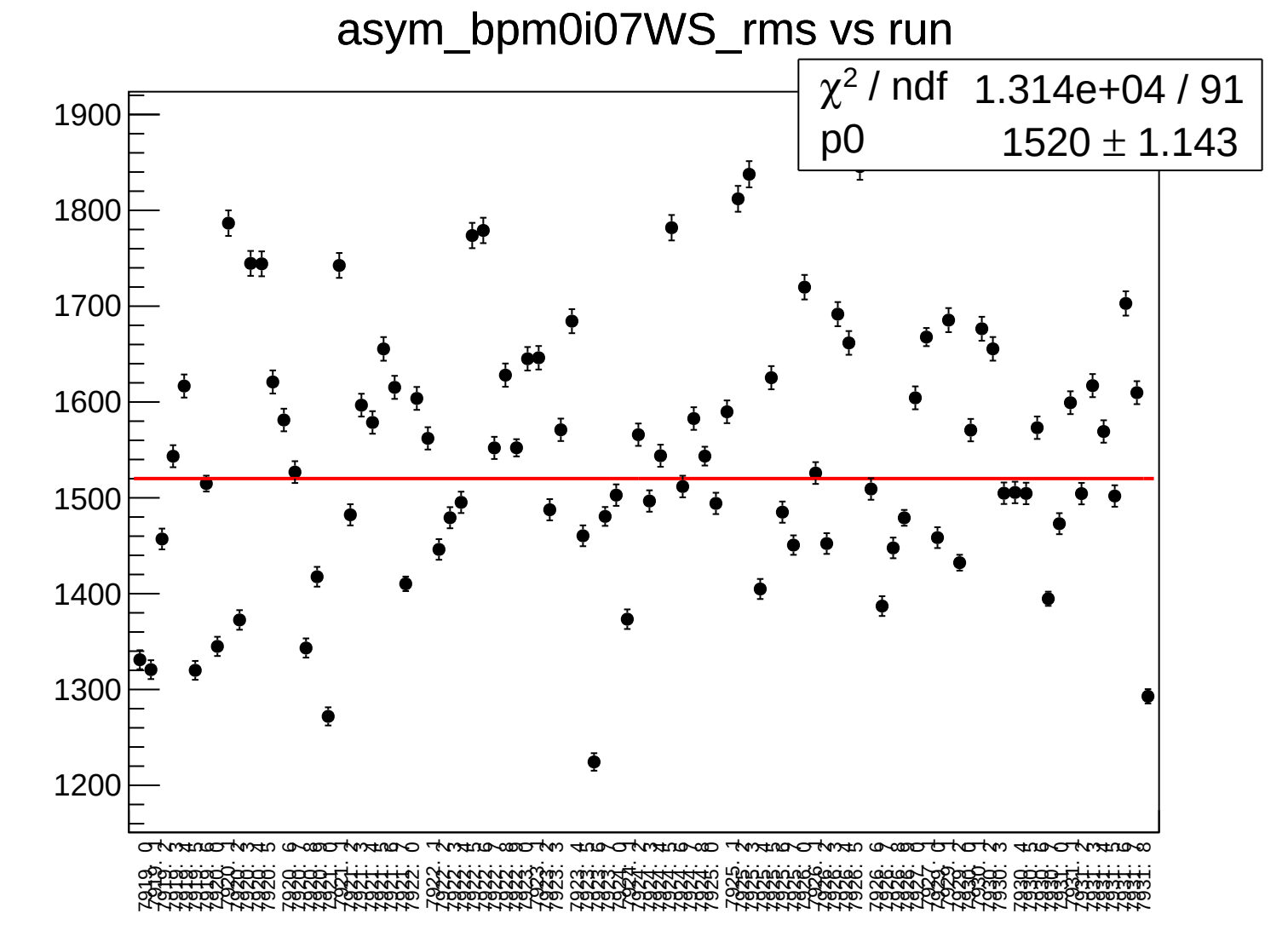

asym_bpm0i02aWS_rms vs run
χ² / ndf 2577 / 91
p0 167.2 ± 0.1253
185
180
175
170
165
160
155
150
145

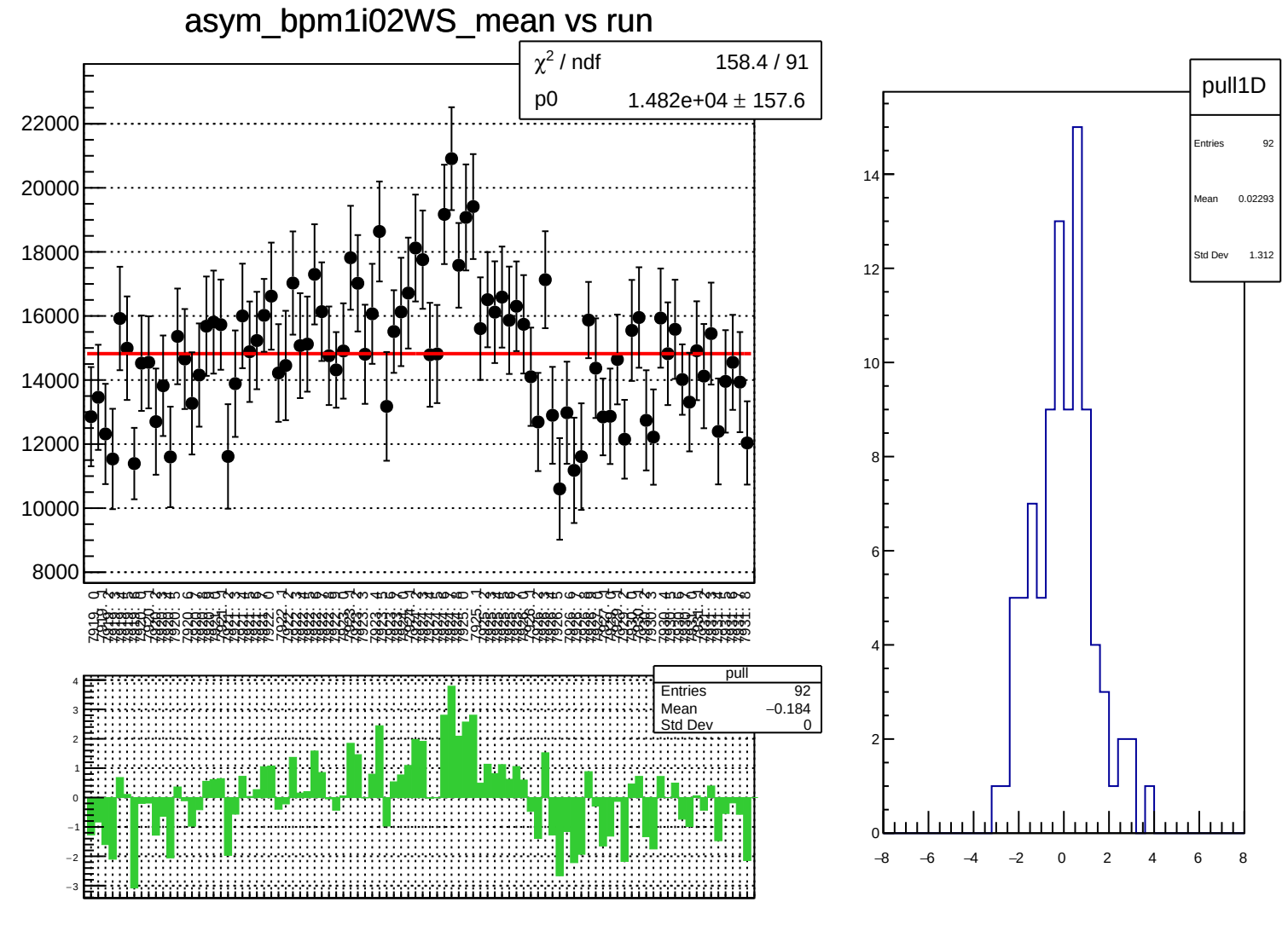

asym_bpm0i05WS_mean vs run
χ² / ndf 85.06 / 91
p0 1.822e+04 ± 194.9
pull
Entries 92
Mean −183.3
Std Dev 0
pull1D
Entries 92
Mean −0.01499
Std Dev 0.9614

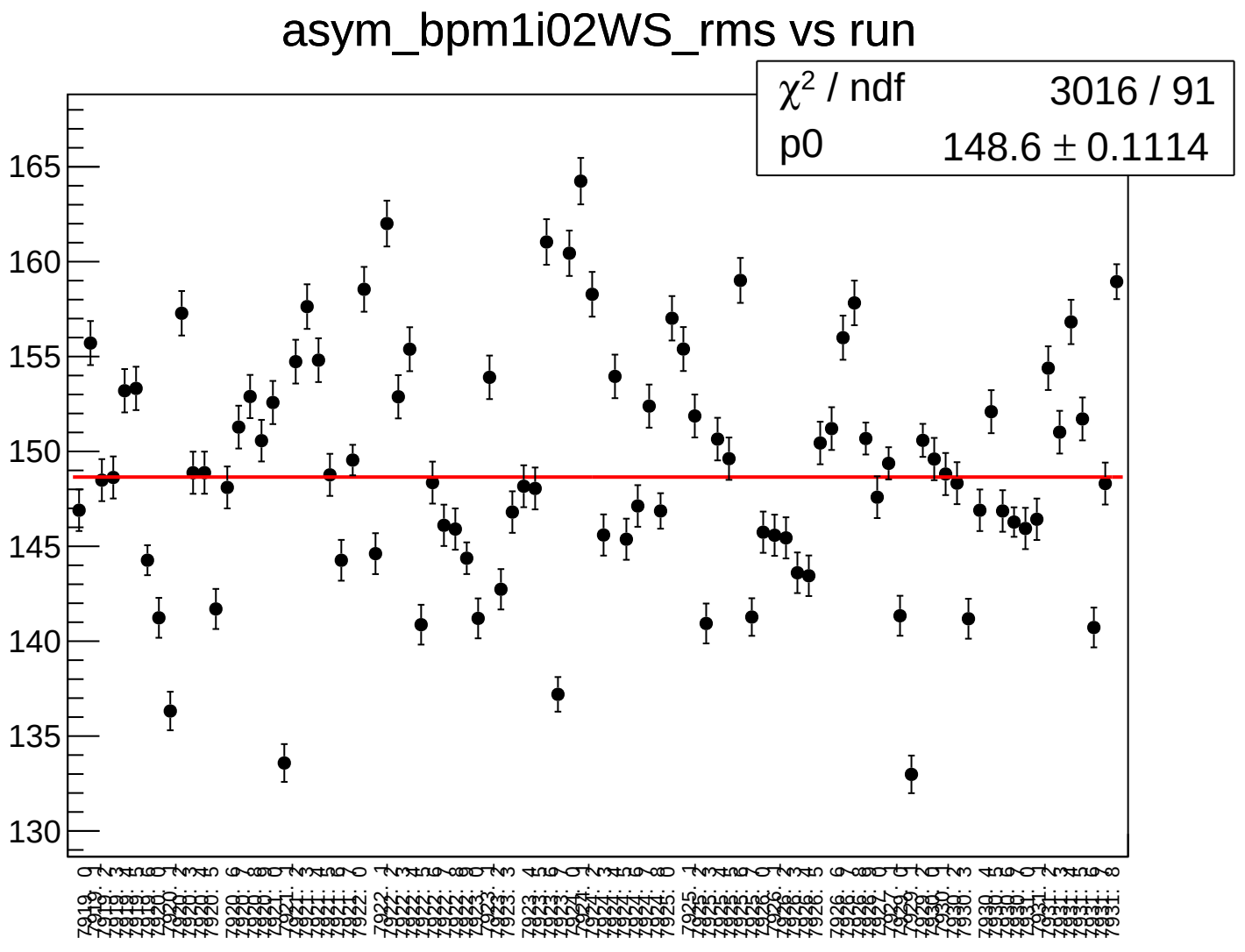

asym_bpm0i05WS_rms vs run
χ² / ndf 3385 / 91
p0 183.8 ± 0.1378
200
190
180
170
160

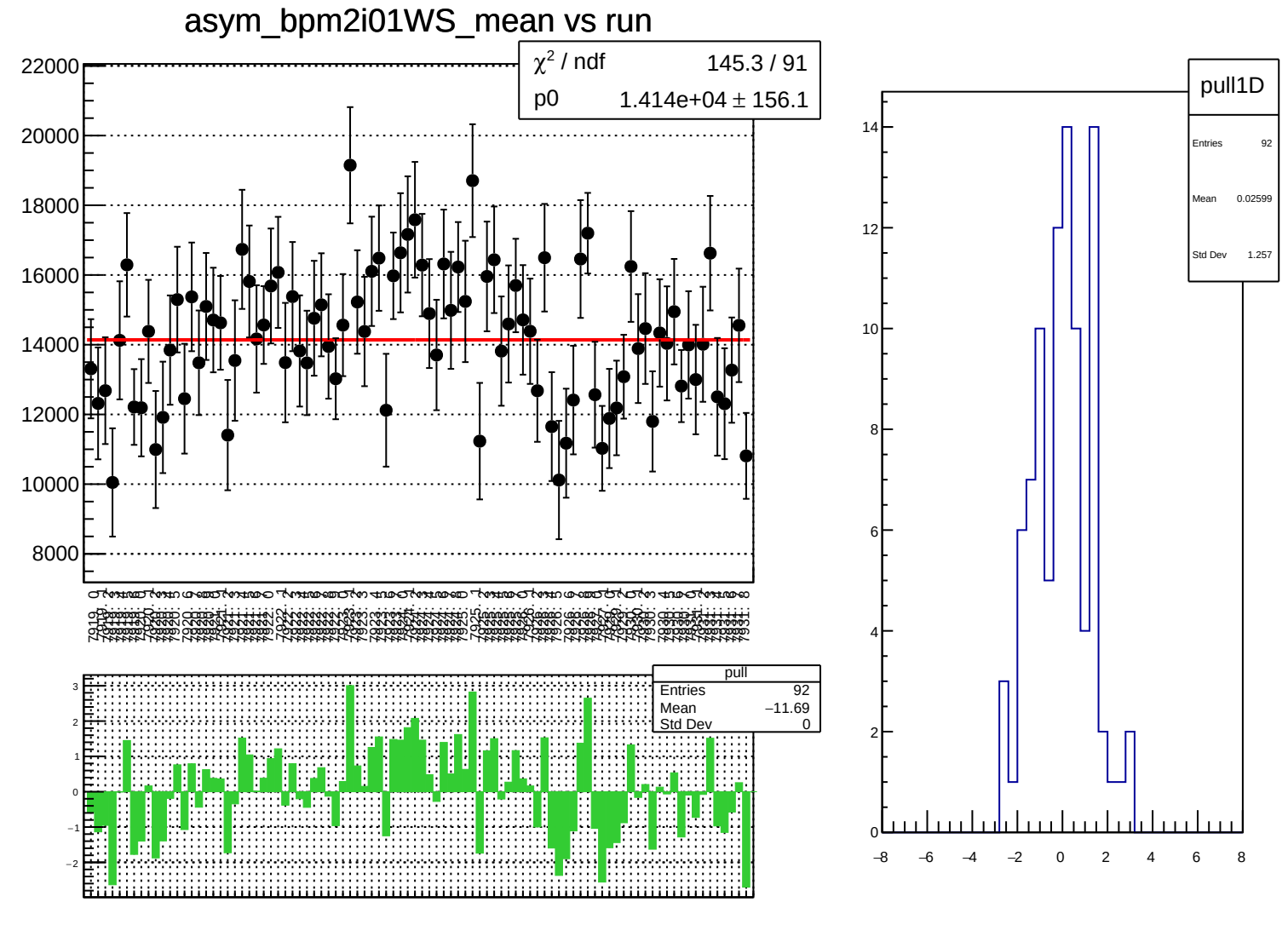

asym_bpm0i07WS_mean vs run
χ² / ndf 87.63 / 91
p0 274 ± 1616
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 1.592e+04
Std Dev 0
2
1
0
−1
−2
−3

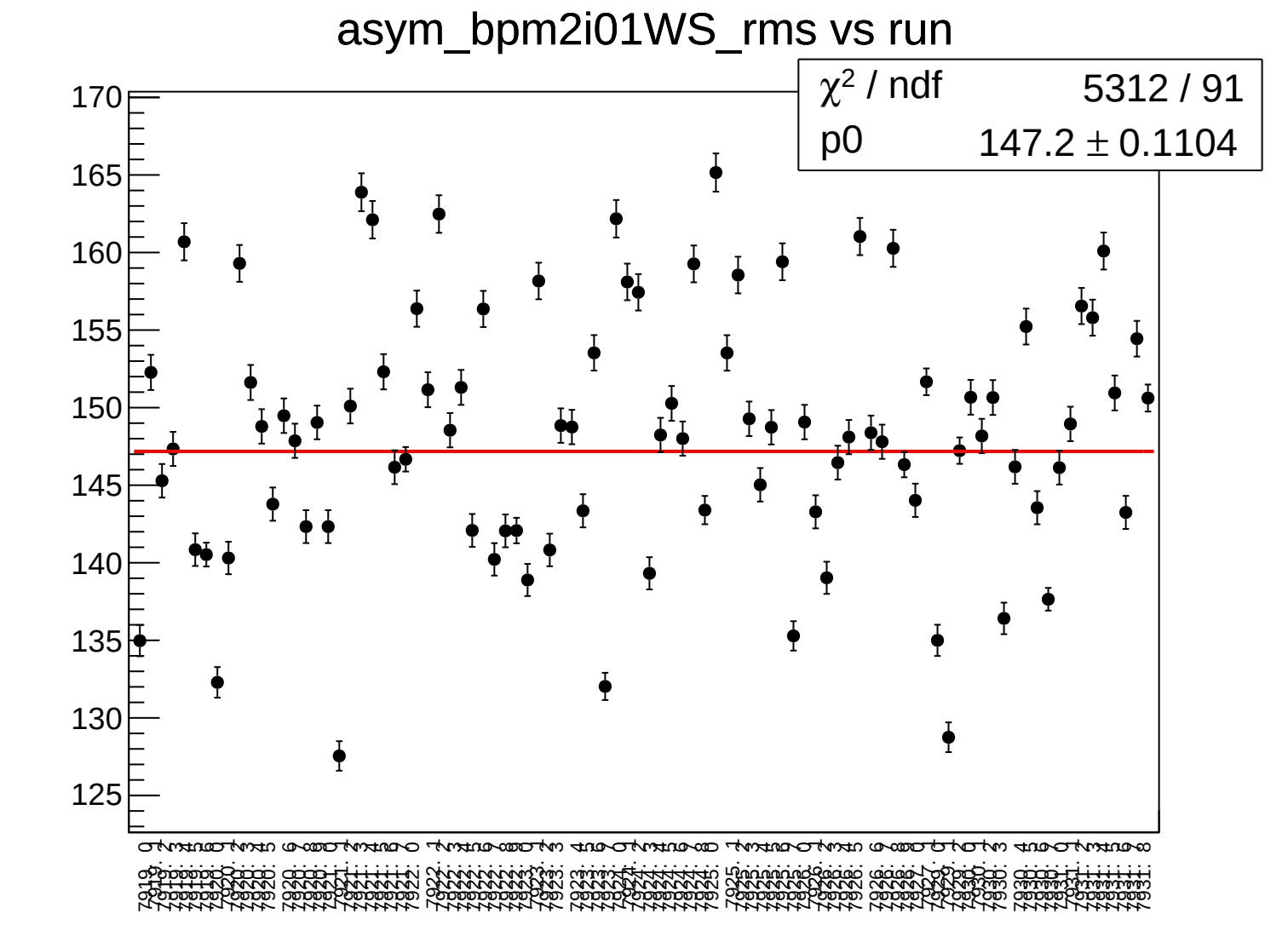

pull1D
Entries 92
Mean 0.0002362
Std Dev 0.976
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

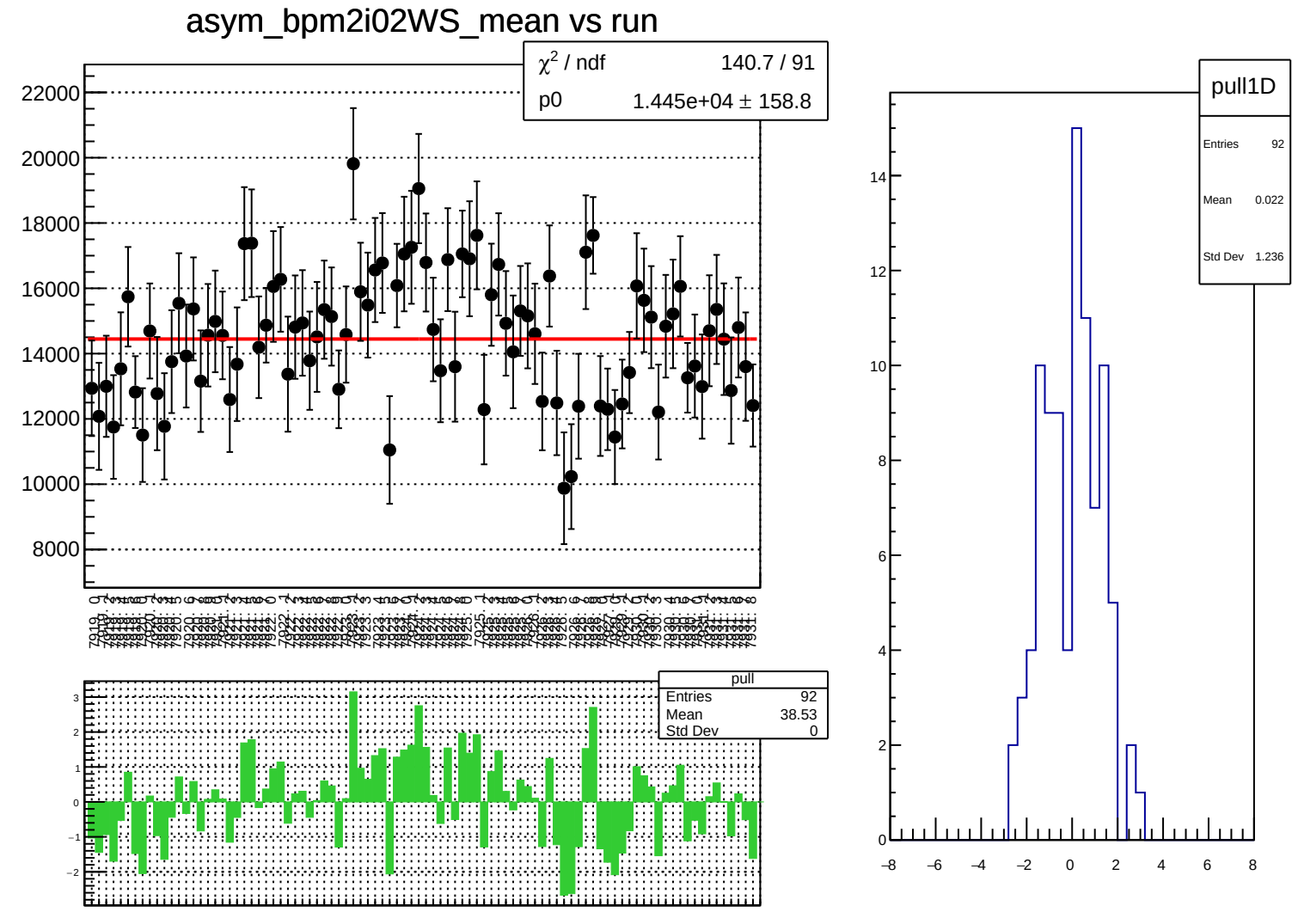

asym_bpm0i07WS_rms vs run
χ^2 / ndf 1.314e+04 / 91
p0 1520 ± 1.143
1900
1800
1700
1600
1500
1400
1300
1200

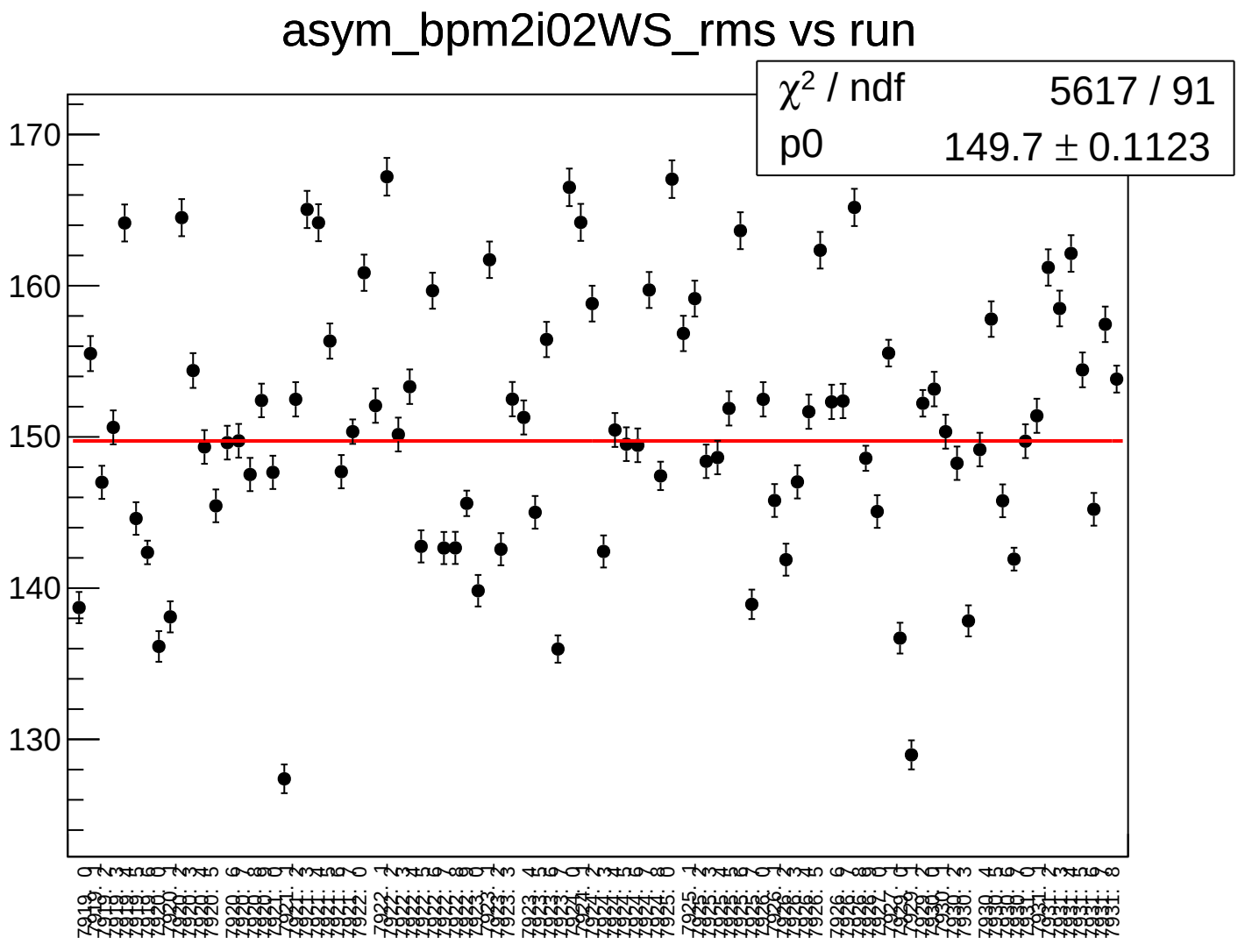

asym_bpm1i02WS_mean vs run
χ² / ndf 158.4 / 91
p0 1.482e+04 ± 157.6
22000
20000
18000
16000
14000
12000
10000
8000
pull
Entries 92
Mean −0.184
Std Dev 0
4
3
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean 0.02293
Std Dev 1.312
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

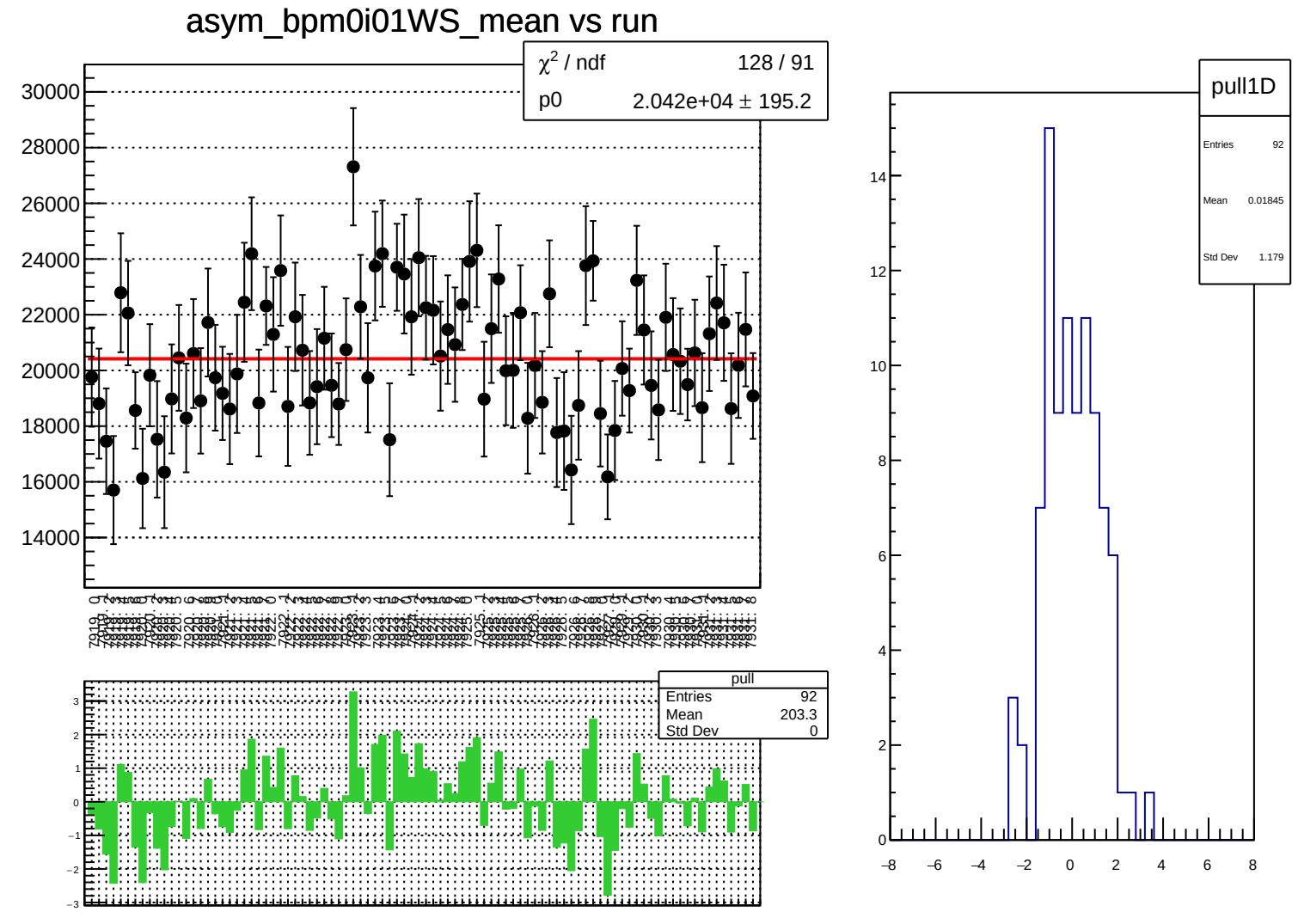

asym_bpm1i02WS_rms vs run
χ² / ndf 3016 / 91
p0 148.6 ± 0.1114
165
160
155
150
145
140
135
130

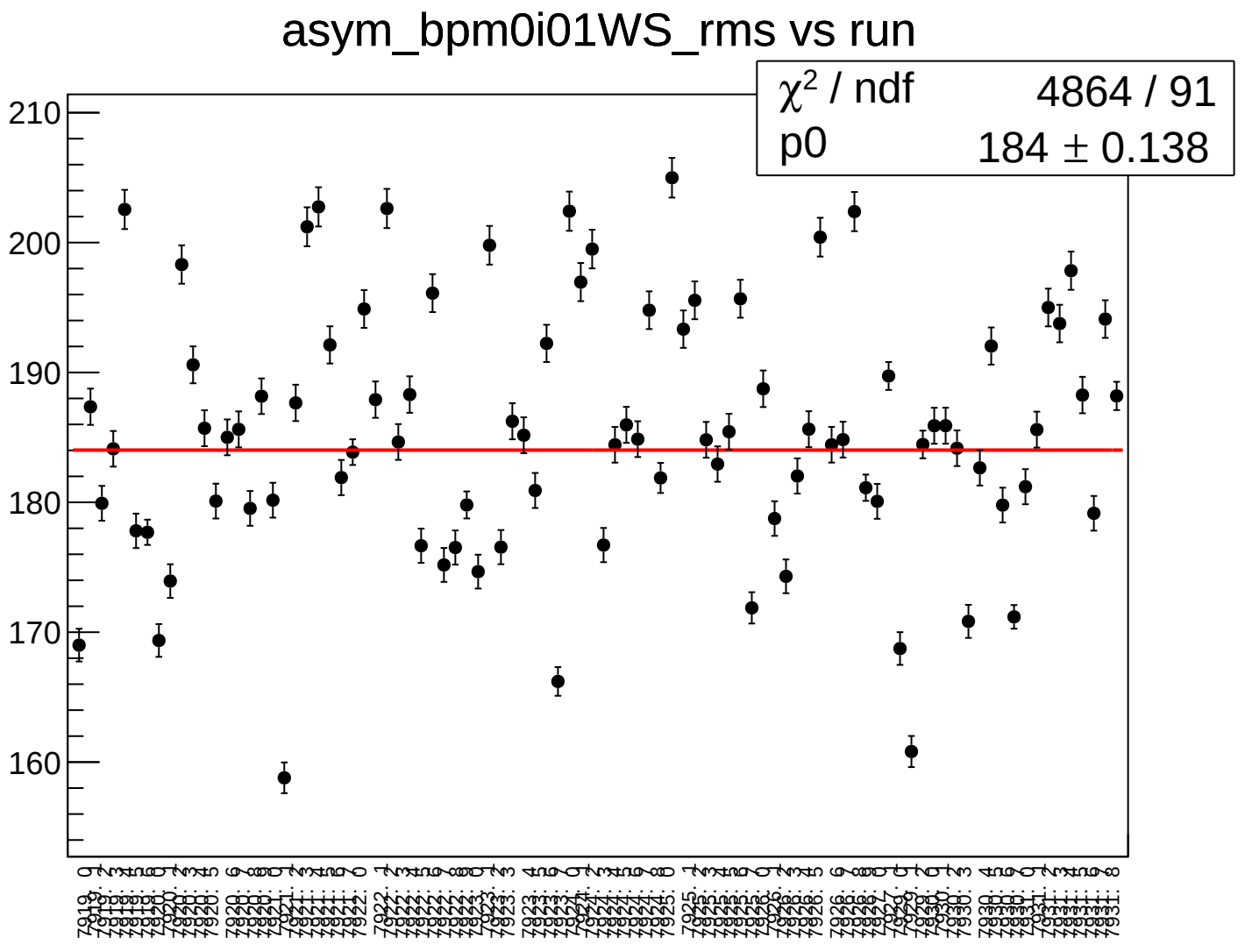

asym_bpm2i01WS_mean vs run
χ² / ndf 145.3 / 91
p0 1.414e+04 ± 156.1
pull
Entries 92
Mean −11.69
Std Dev 0
pull1D
Entries 92
Mean 0.02599
Std Dev 1.257

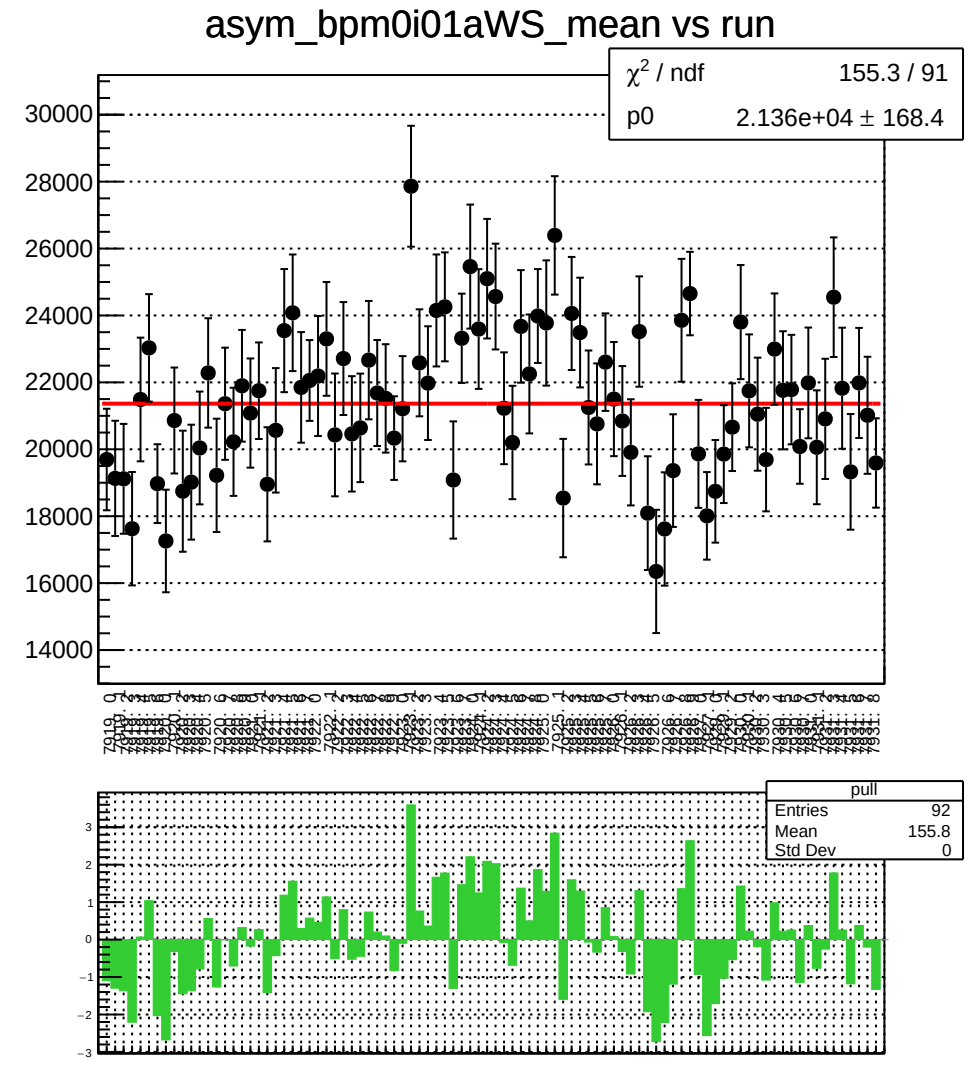

asym_bpm2i01WS_rms vs run
χ^2 / ndf 5312 / 91
p0 147.2 ± 0.1104
170
165
160
155
150
145
140
135
130
125

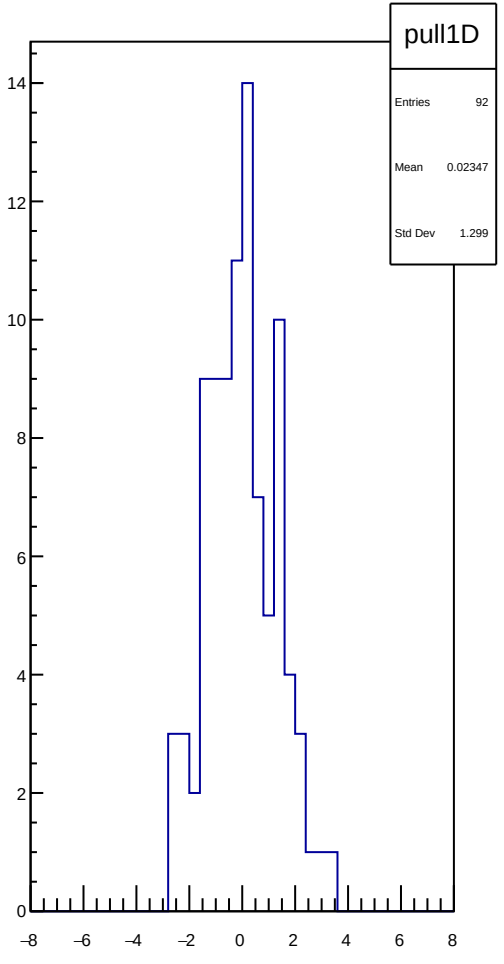

asym_bpm2i02WS_mean vs run
χ² / ndf 140.7 / 91
p0 1.445e+04 ± 158.8
22000
20000
18000
16000
14000
12000
10000
8000
pull
Entries 92
Mean 38.53
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.022
Std Dev 1.236
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

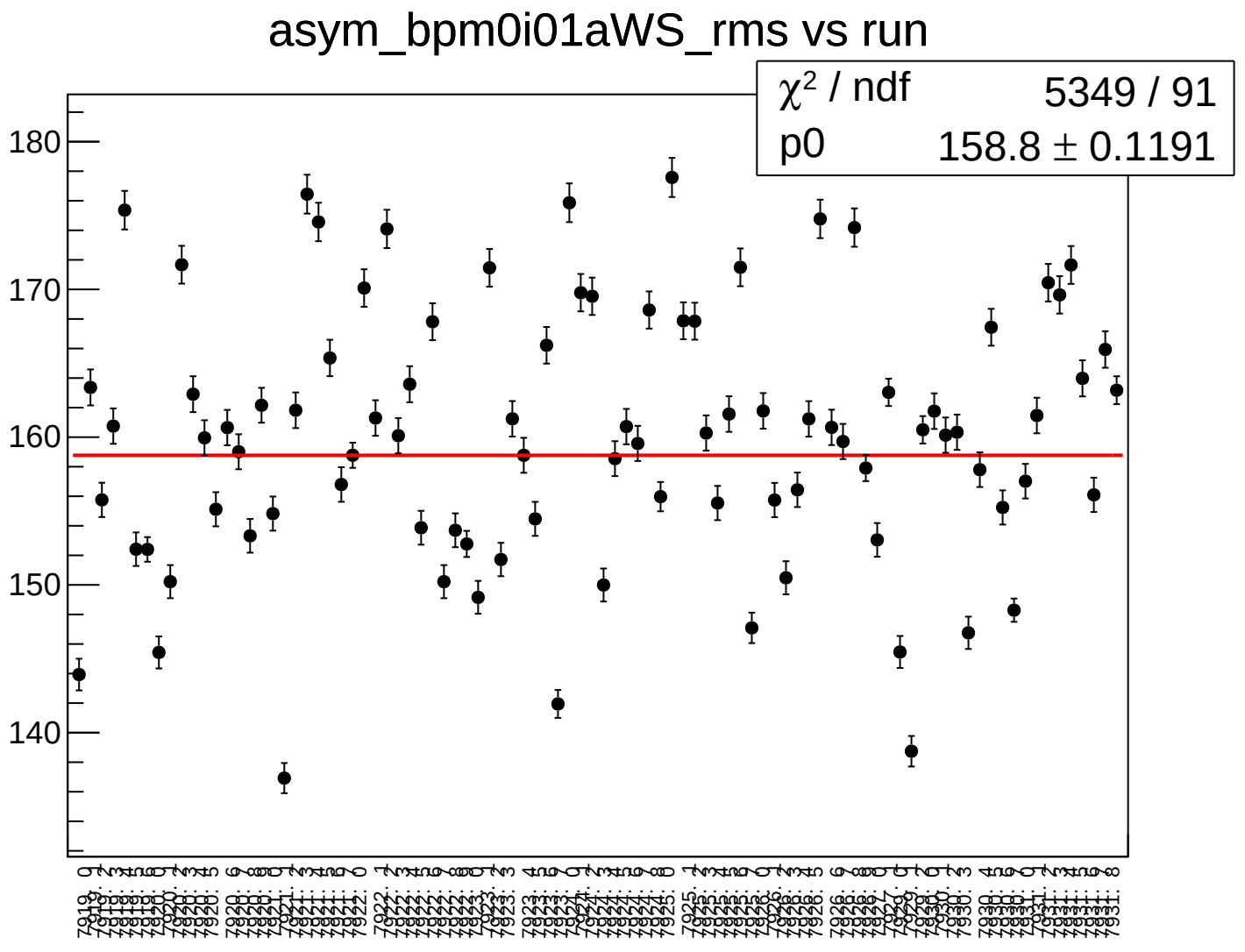

asym_bpm2i02WS_rms vs run
χ^2 / ndf 5617 / 91
p0 149.7 ± 0.1123
170
160
150
140
130

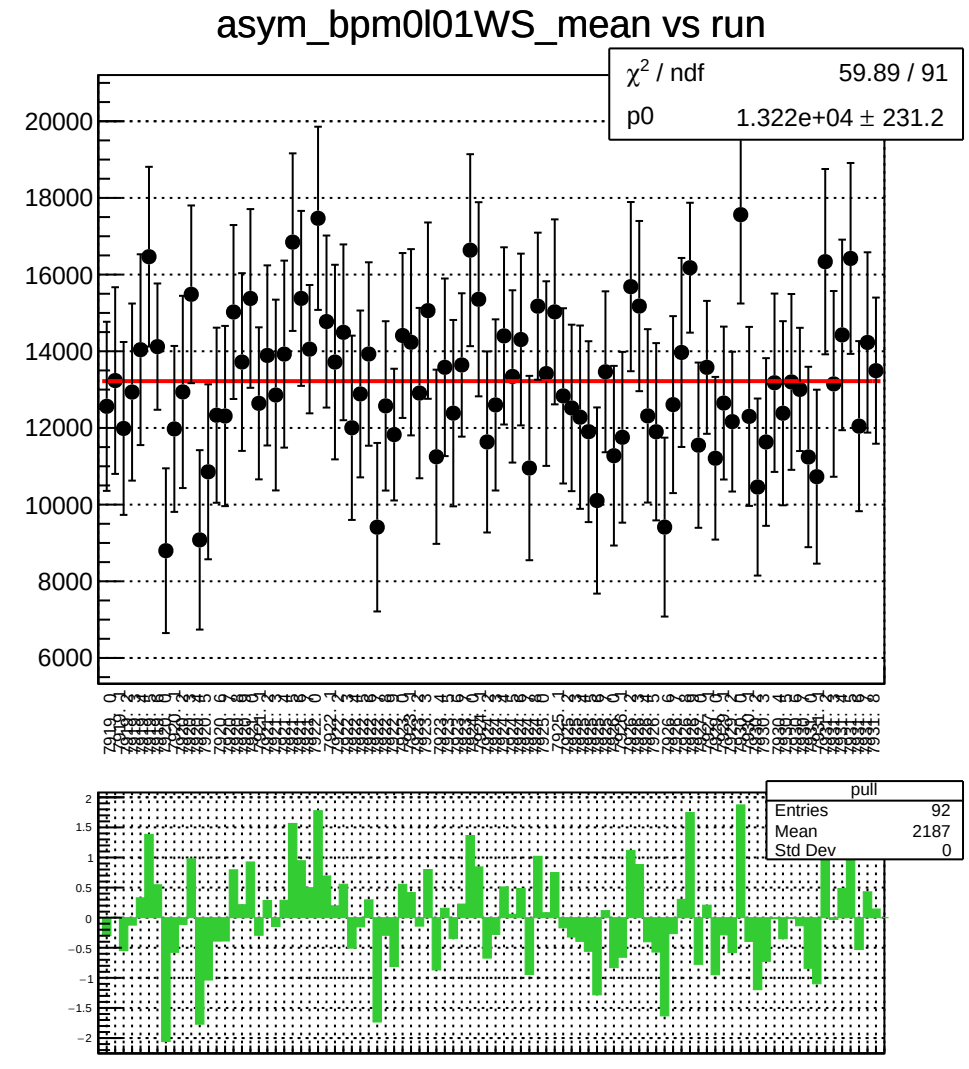

asym_bpm0i01WS_mean vs run
χ² / ndf 128 / 91
p0 2.042e+04 ± 195.2
pull
Entries 92
Mean 203.3
Std Dev 0
pull1D
Entries 92
Mean 0.01845
Std Dev 1.179

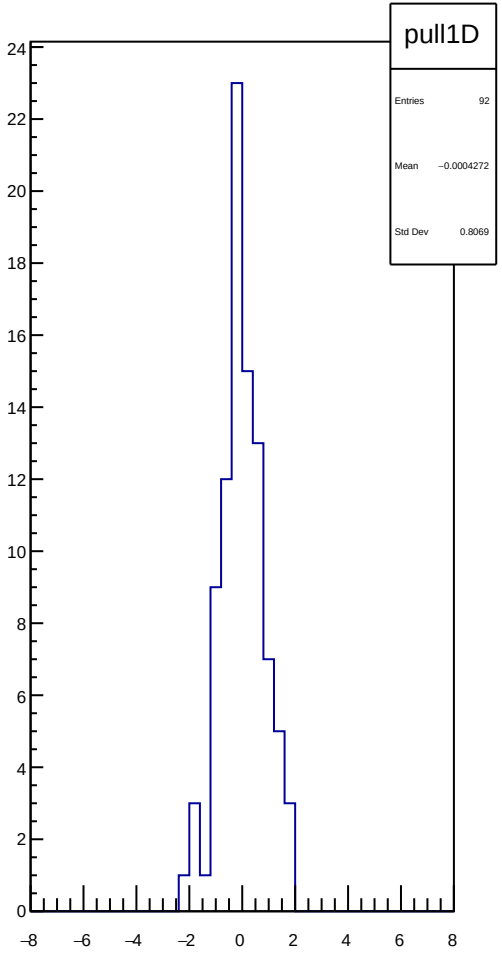

asym_bpm0i01WS_rms vs run
χ² / ndf 4864 / 91
p0 184 ± 0.138
210
200
190
180
170
160

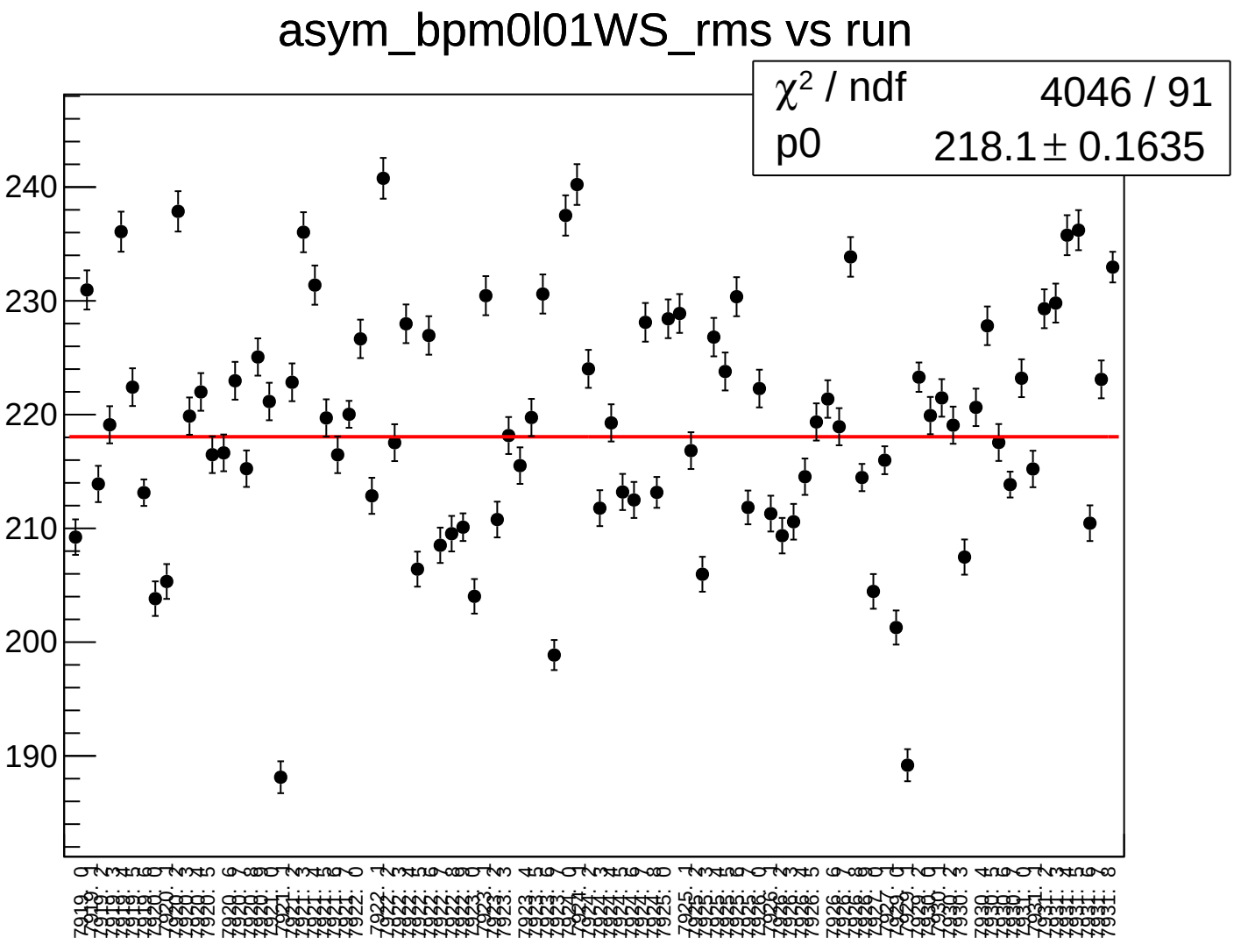

asym_bpm0i01aWS_mean vs run
χ² / ndf 155.3 / 91
p0 2.136e+04 ± 168.4
pull
Entries 92
Mean 155.8
Std Dev 0

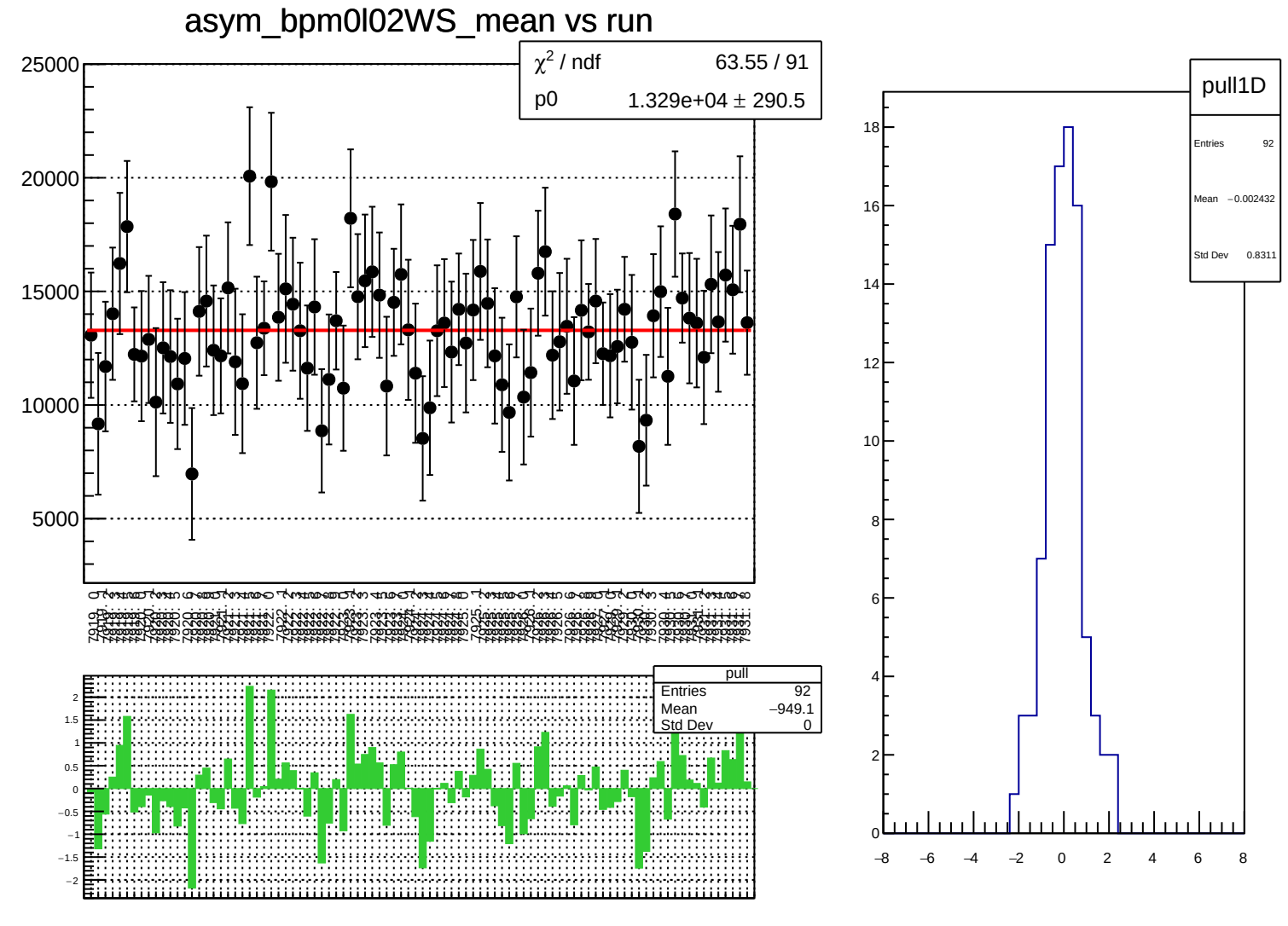

pull1D
Entries 92
Mean 0.02347
Std Dev 1.299

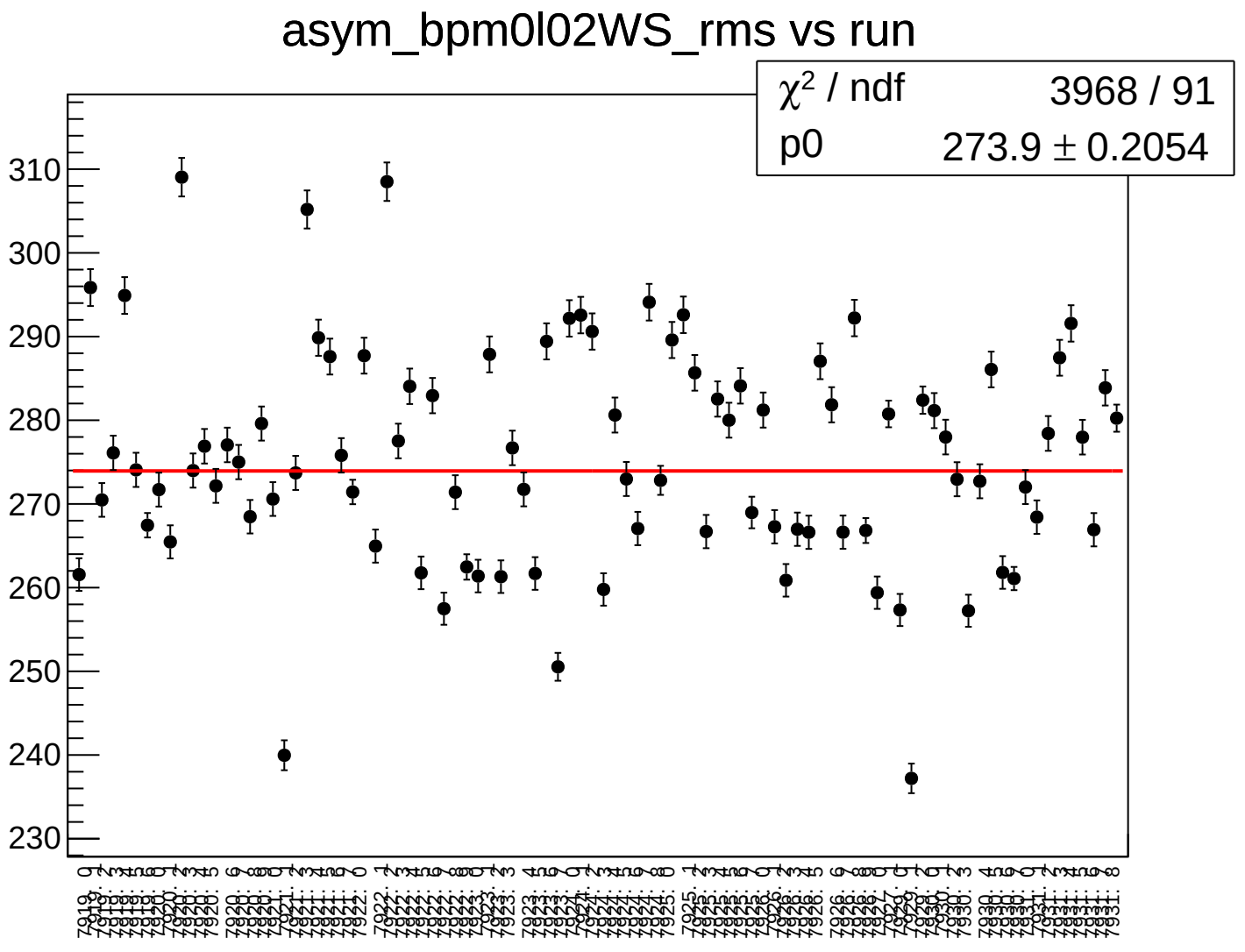

asym_bpm0i01aWS_rms vs run
χ² / ndf 5349 / 91
p0 158.8 ± 0.1191
180
170
160
150
140

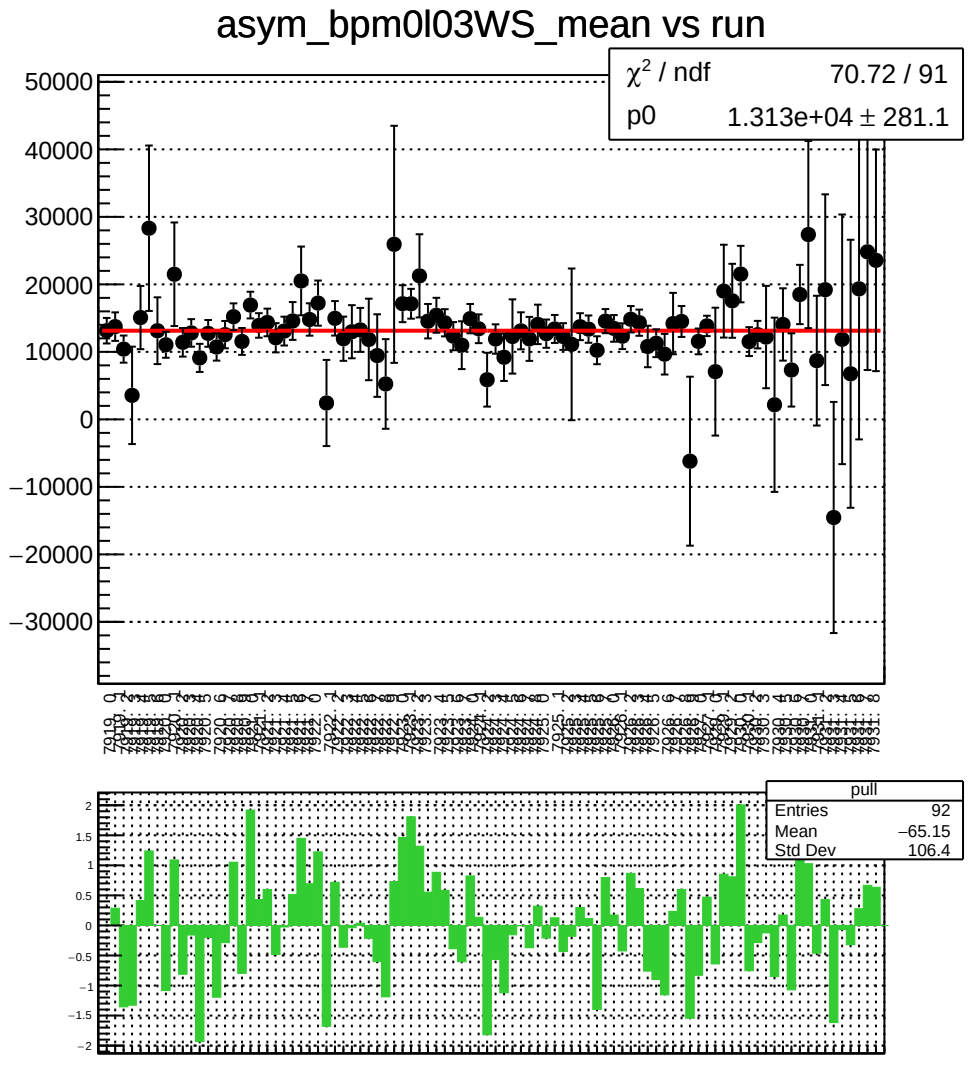

asym_bpm0l01WS_mean vs run
χ² / ndf 59.89 / 91
p0 1.322e+04 ± 231.2
pull
Entries 92
Mean 2187
Std Dev 0

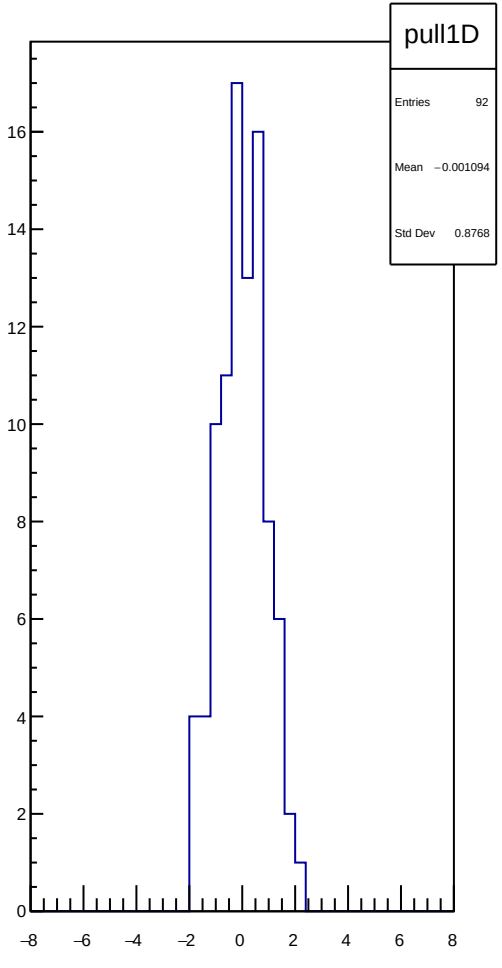

pull1D
Entries 92
Mean −0.0004272
Std Dev 0.8069

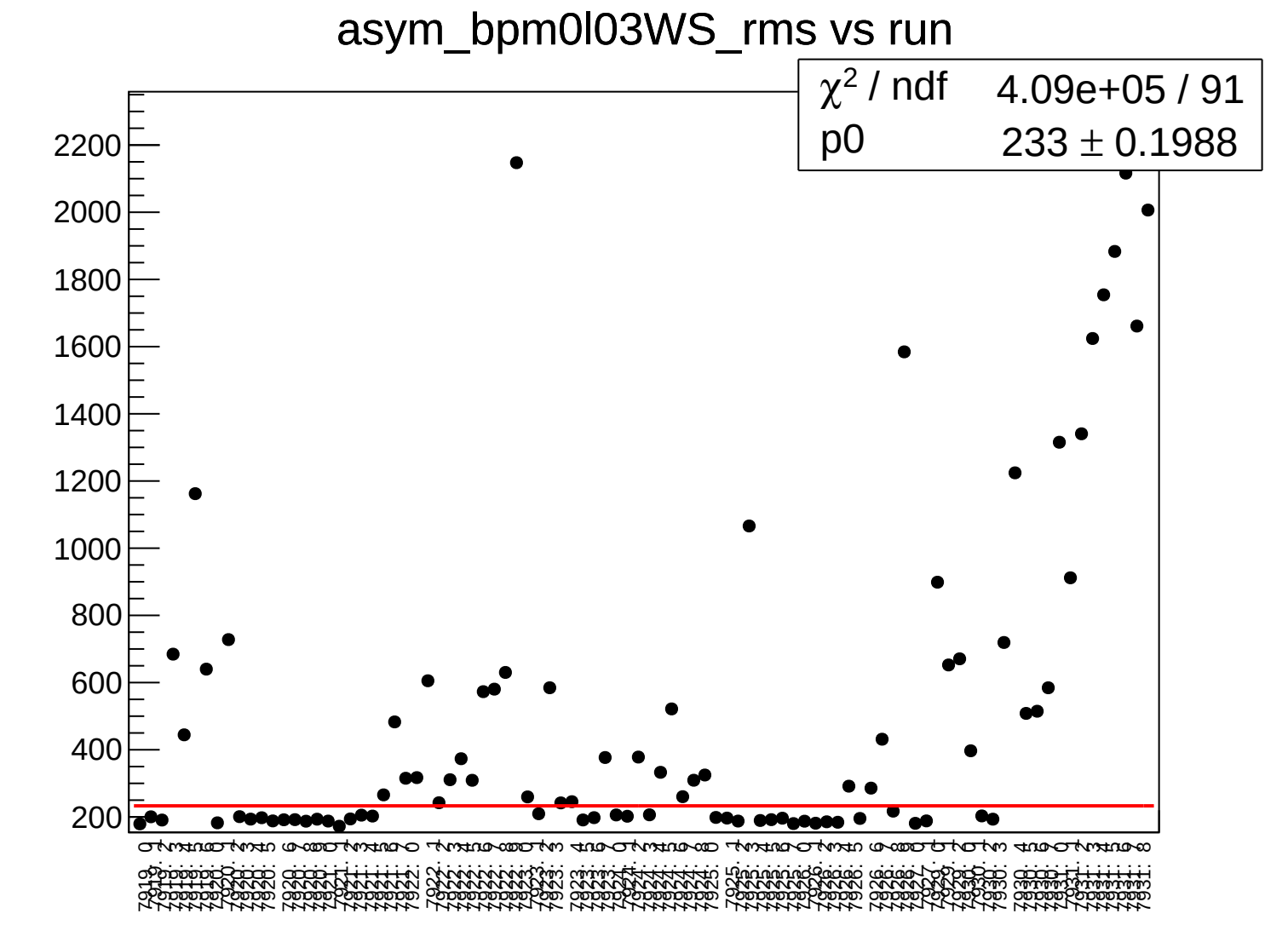

asym_bpm0l01WS_rms vs run
χ² / ndf 4046 / 91
p0 218.1 ± 0.1635
240
230
220
210
200
190

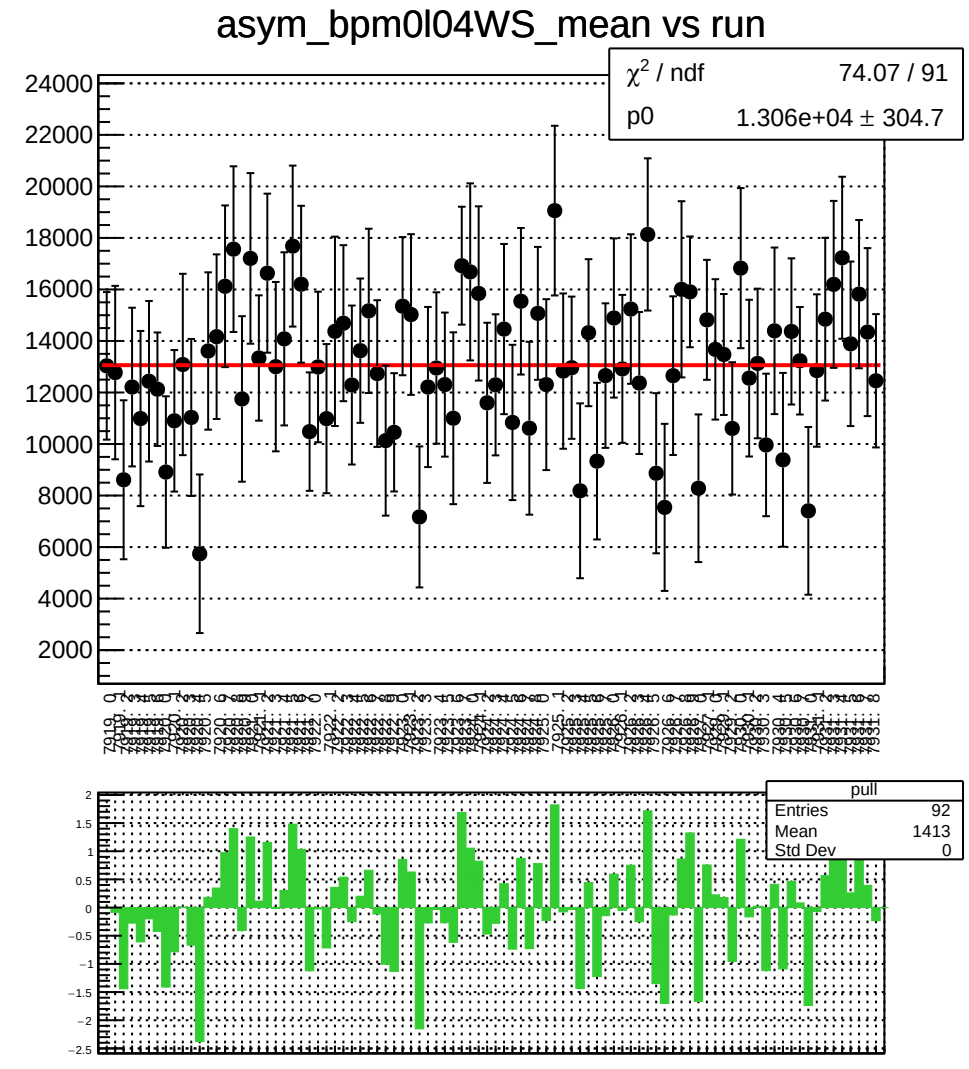

asym_bpm0l02WS_mean vs run
χ² / ndf 63.55 / 91
p0 1.329e+04 ± 290.5
pull
Entries 92
Mean −949.1
Std Dev 0
pull1D
Entries 92
Mean −0.002432
Std Dev 0.8311

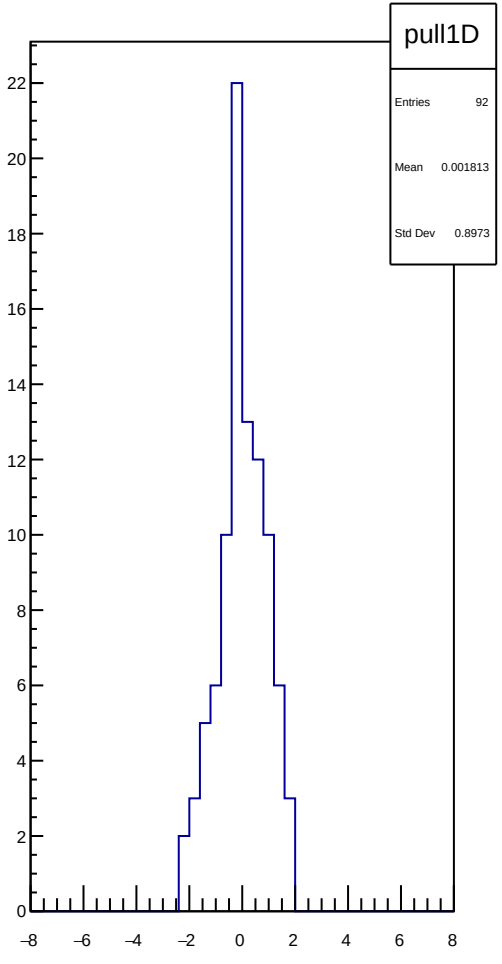

asym_bpm0l02WS_rms vs run
χ² / ndf 3968 / 91
p0 273.9 ± 0.2054
310
300
290
280
270
260
250
240
230

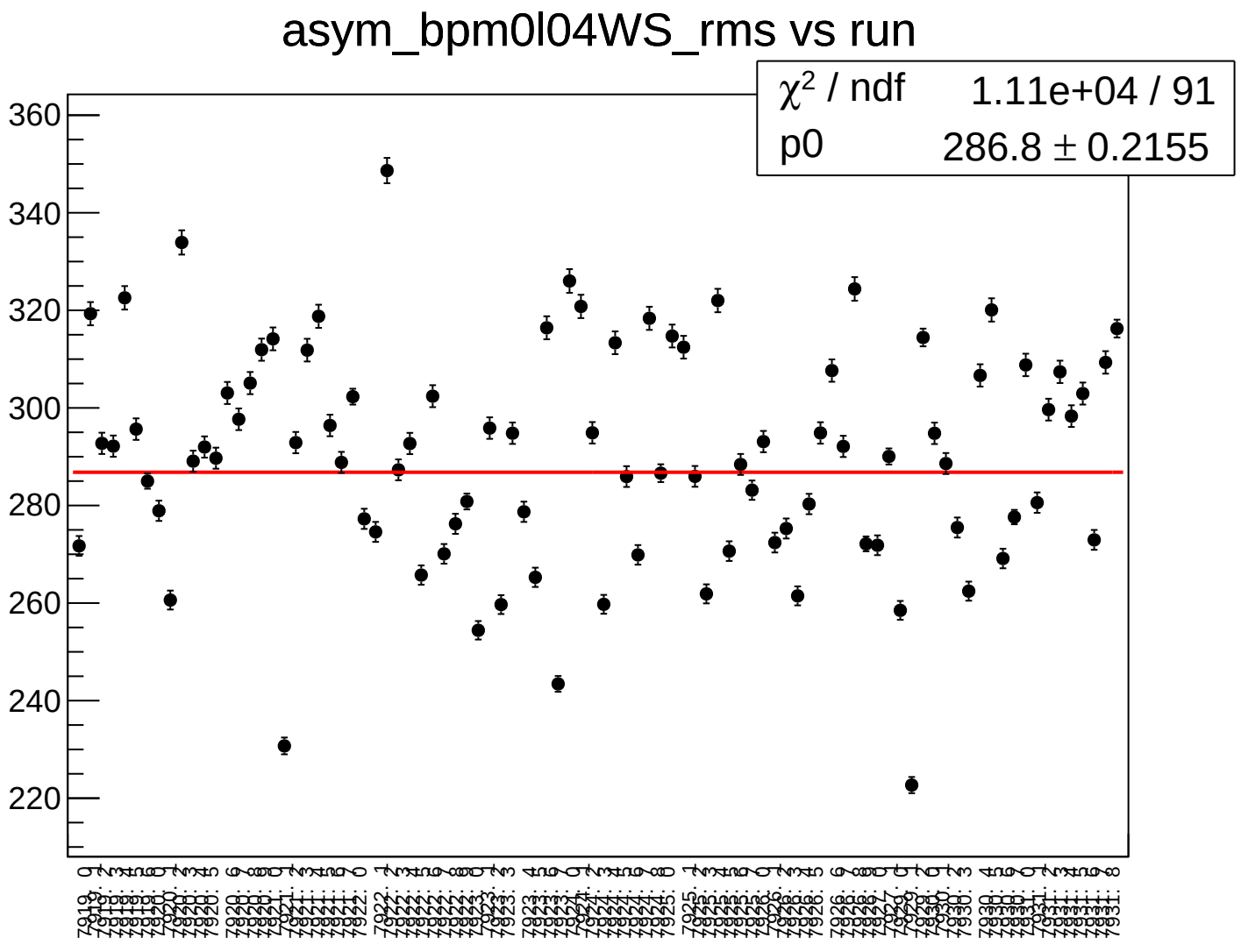

asym_bpm0l03WS_mean vs run
χ² / ndf 70.72 / 91
p0 1.313e+04 ± 281.1
pull
Entries 92
Mean −65.15
Std Dev 106.4

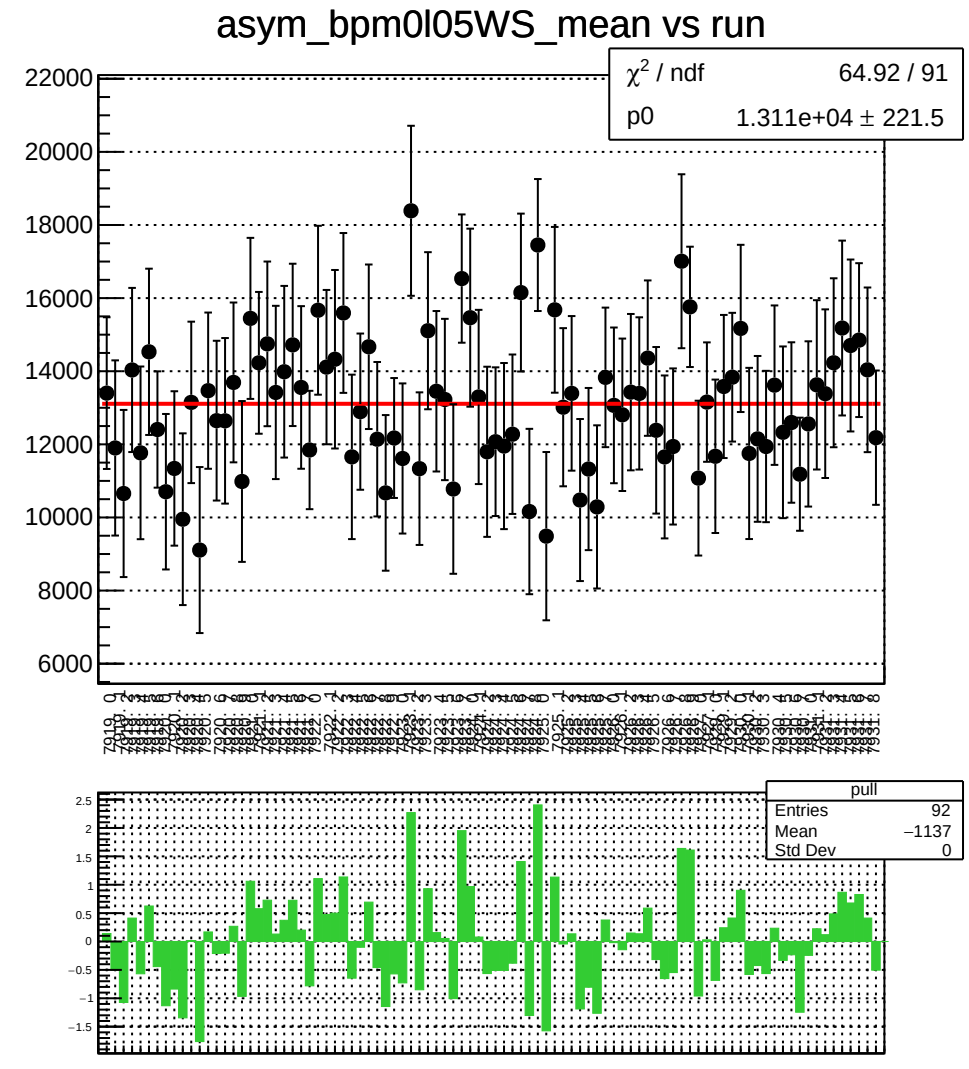

pull1D
Entries 92
Mean −0.001094
Std Dev 0.8768

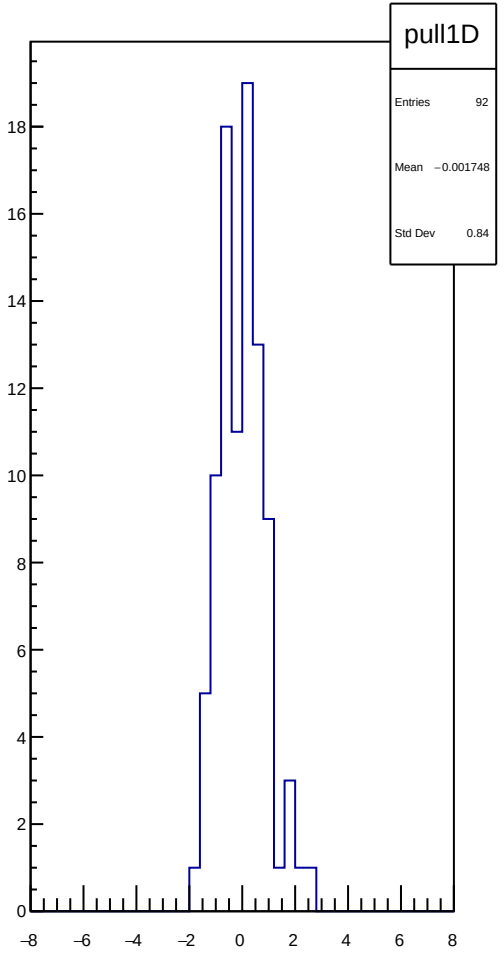

asym_bpm0l03WS_rms vs run
χ^2 / ndf 4.09e+05 / 91
p0 233 ± 0.1988
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

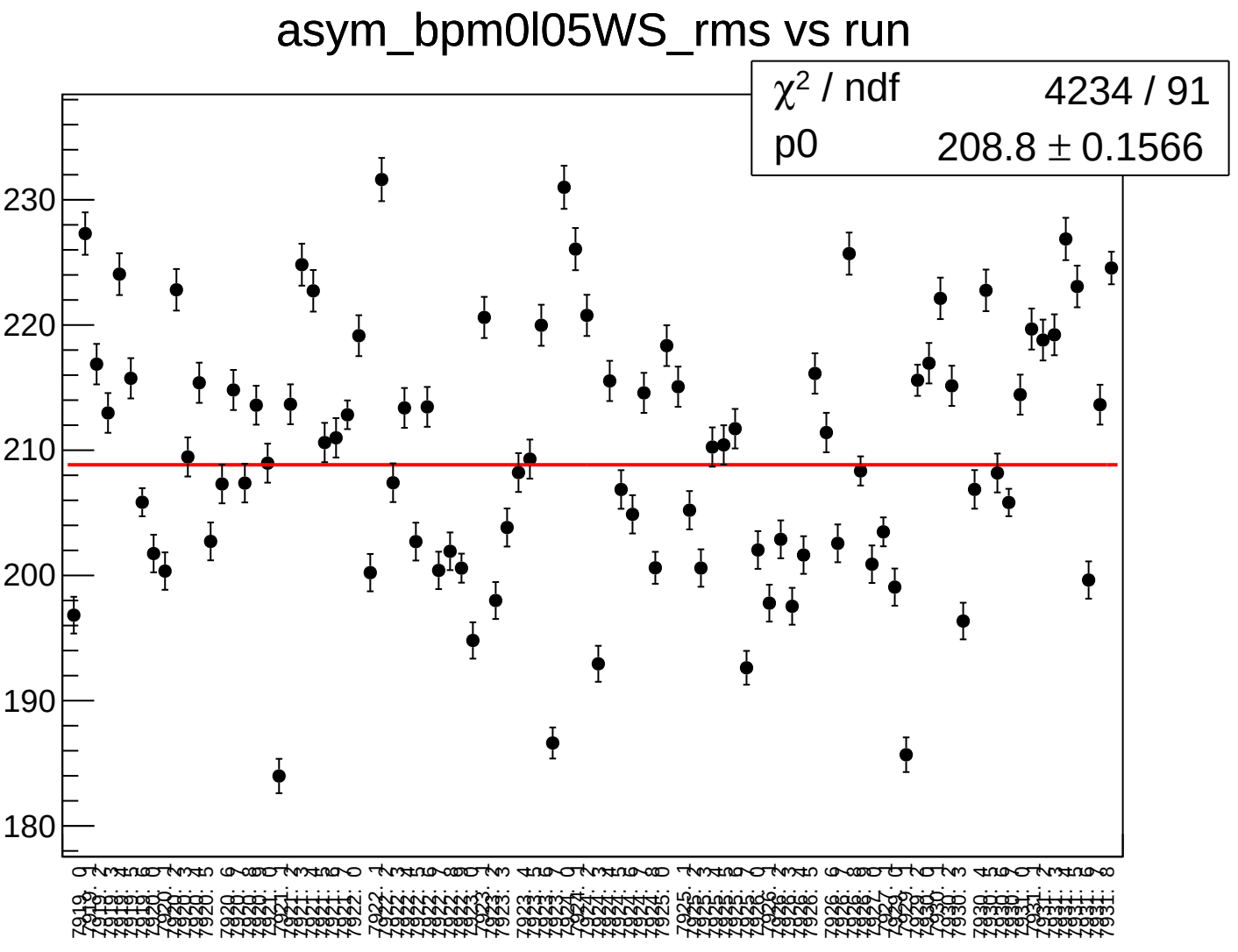

asym_bpm0l04WS_mean vs run
χ² / ndf 74.07 / 91
p0 1.306e+04 ± 304.7
pull
Entries 92
Mean 1413
Std Dev 0

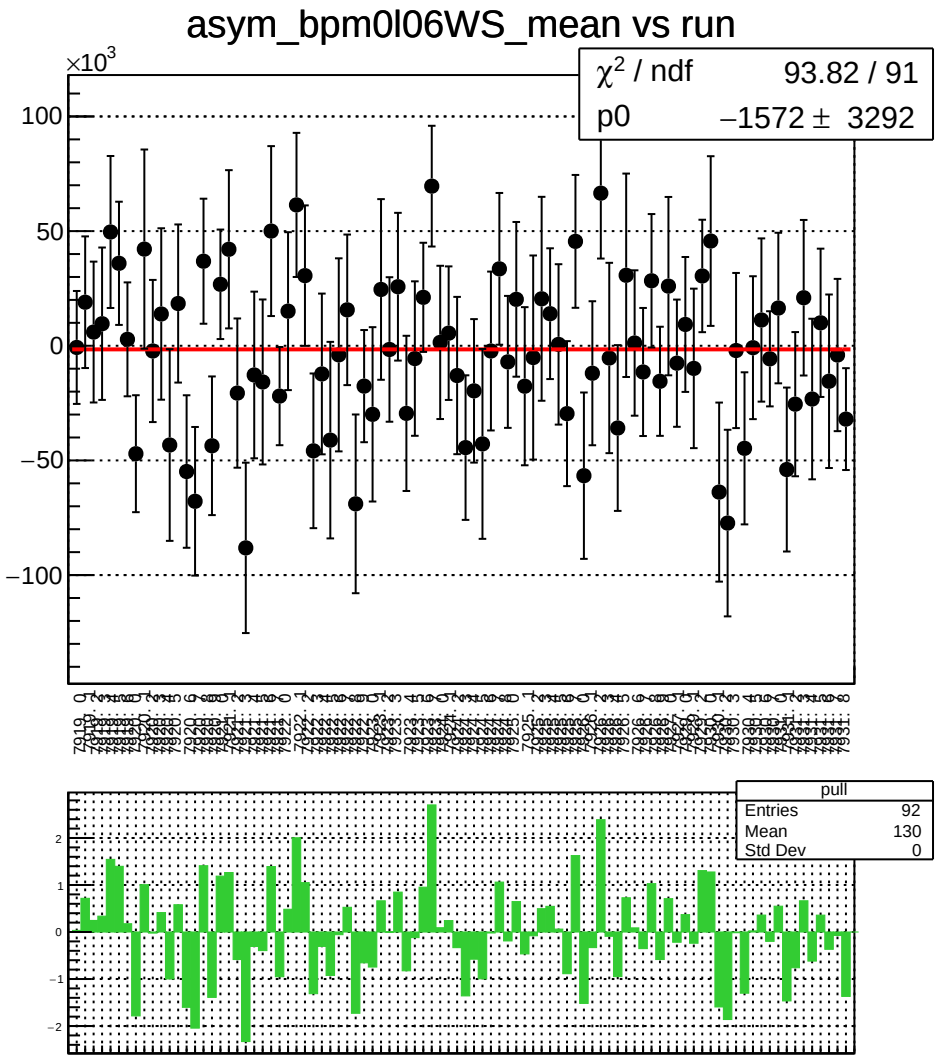

pull1D
Entries 92
Mean 0.001813
Std Dev 0.8973

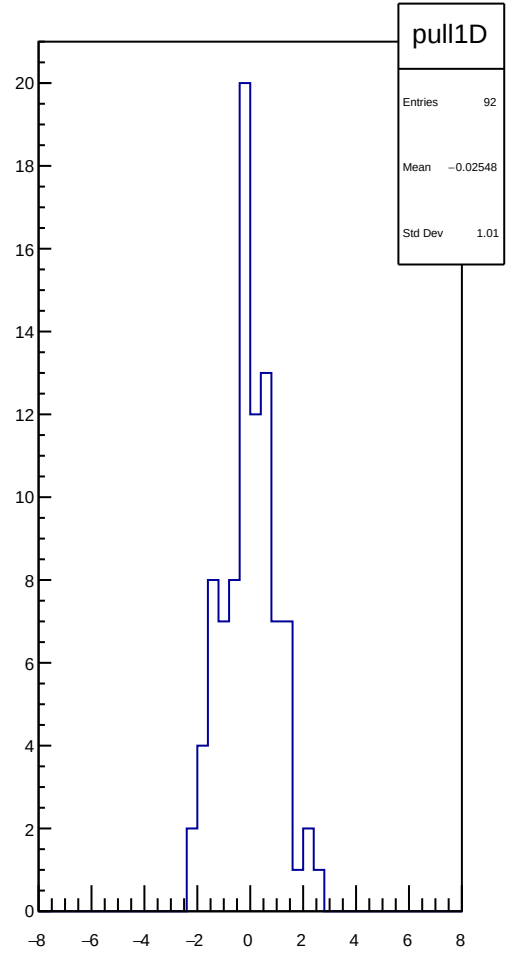

asym_bpm0l04WS_rms vs run
χ^2 / ndf 1.11e+04 / 91
p0 286.8 ± 0.2155
360
340
320
300
280
260
240
220

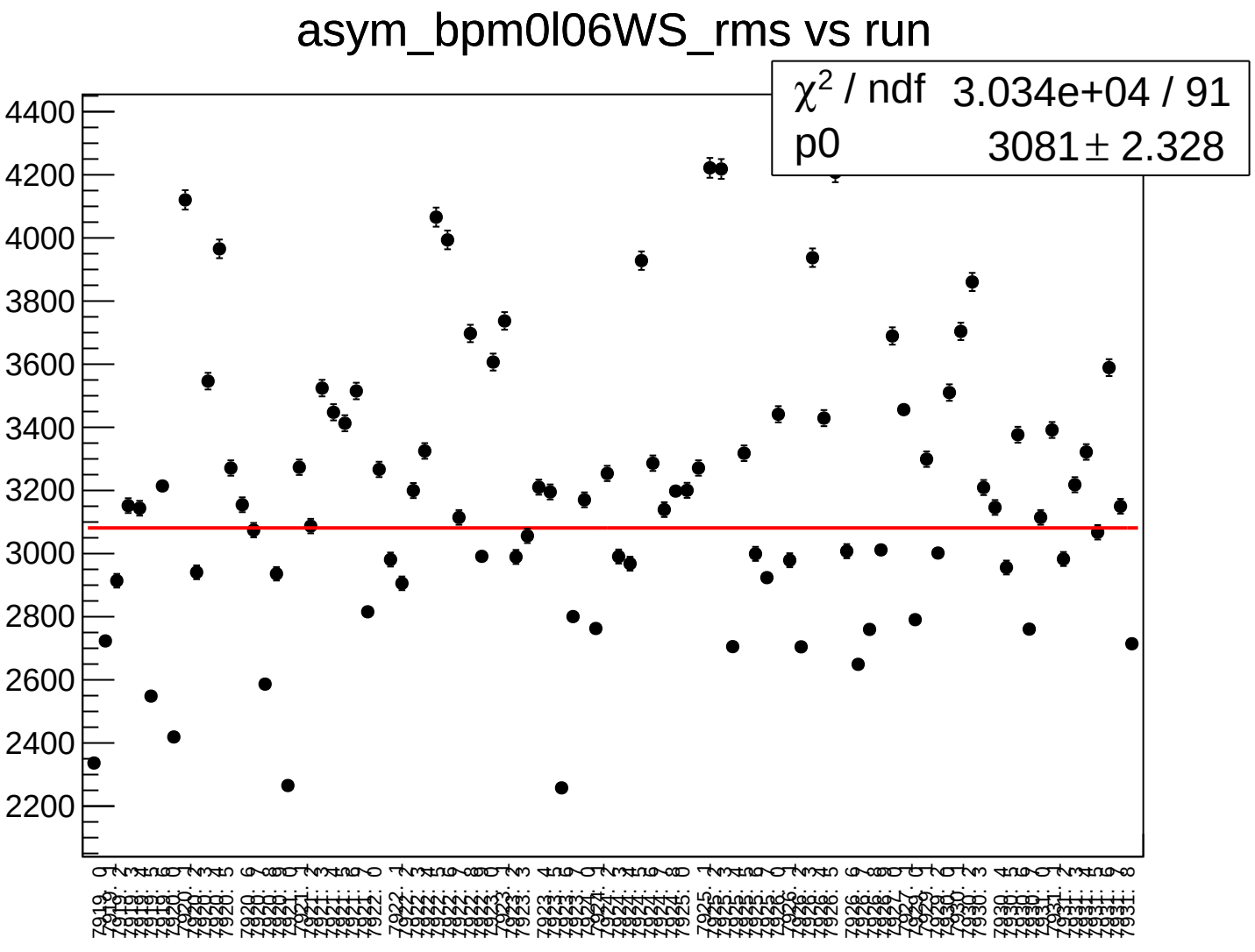

asym_bpm0l05WS_mean vs run
χ² / ndf 64.92 / 91
p0 1.311e+04 ± 221.5
pull
Entries 92
Mean −1137
Std Dev 0

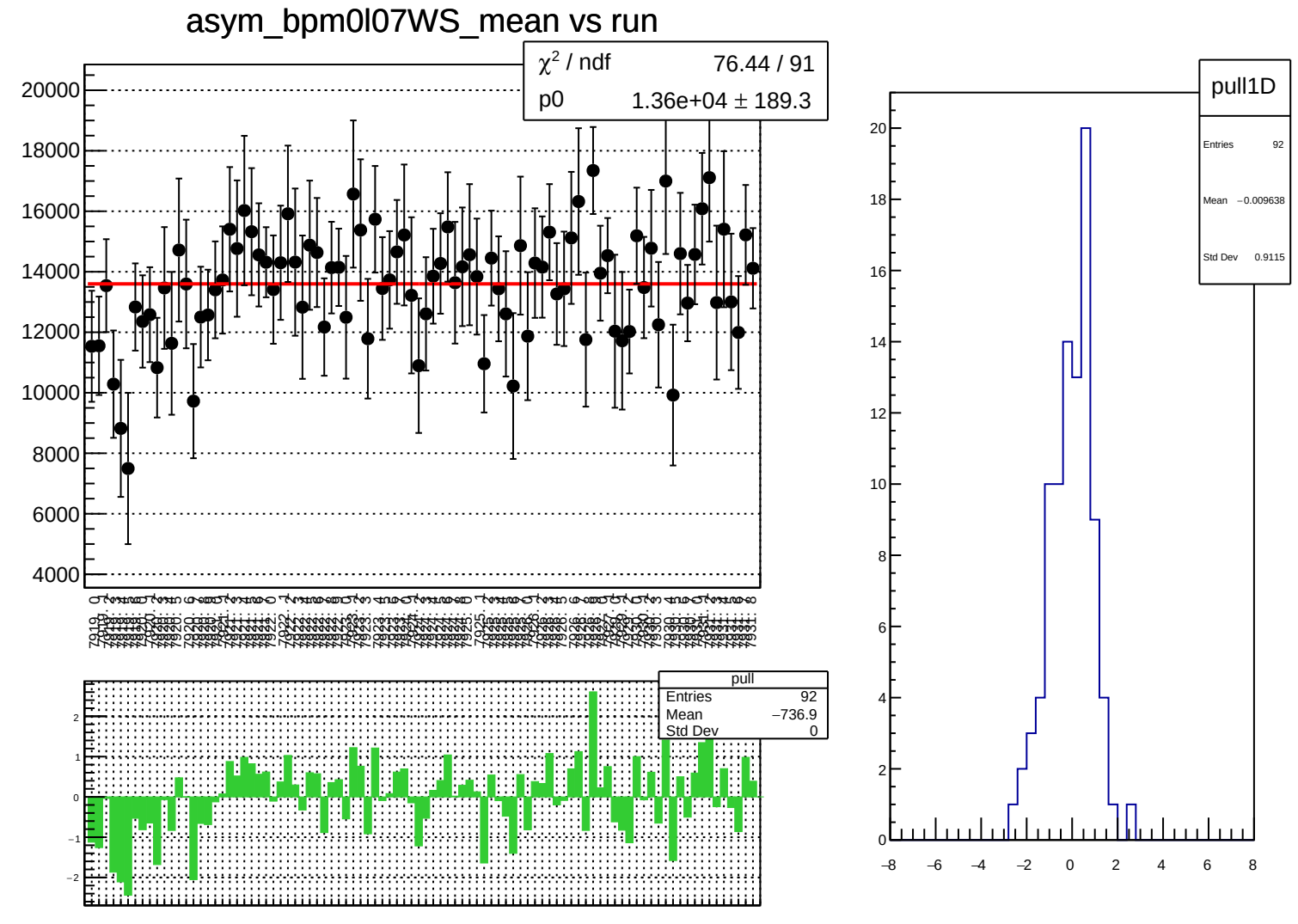

pull1D
Entries 92
Mean −0.001748
Std Dev 0.84

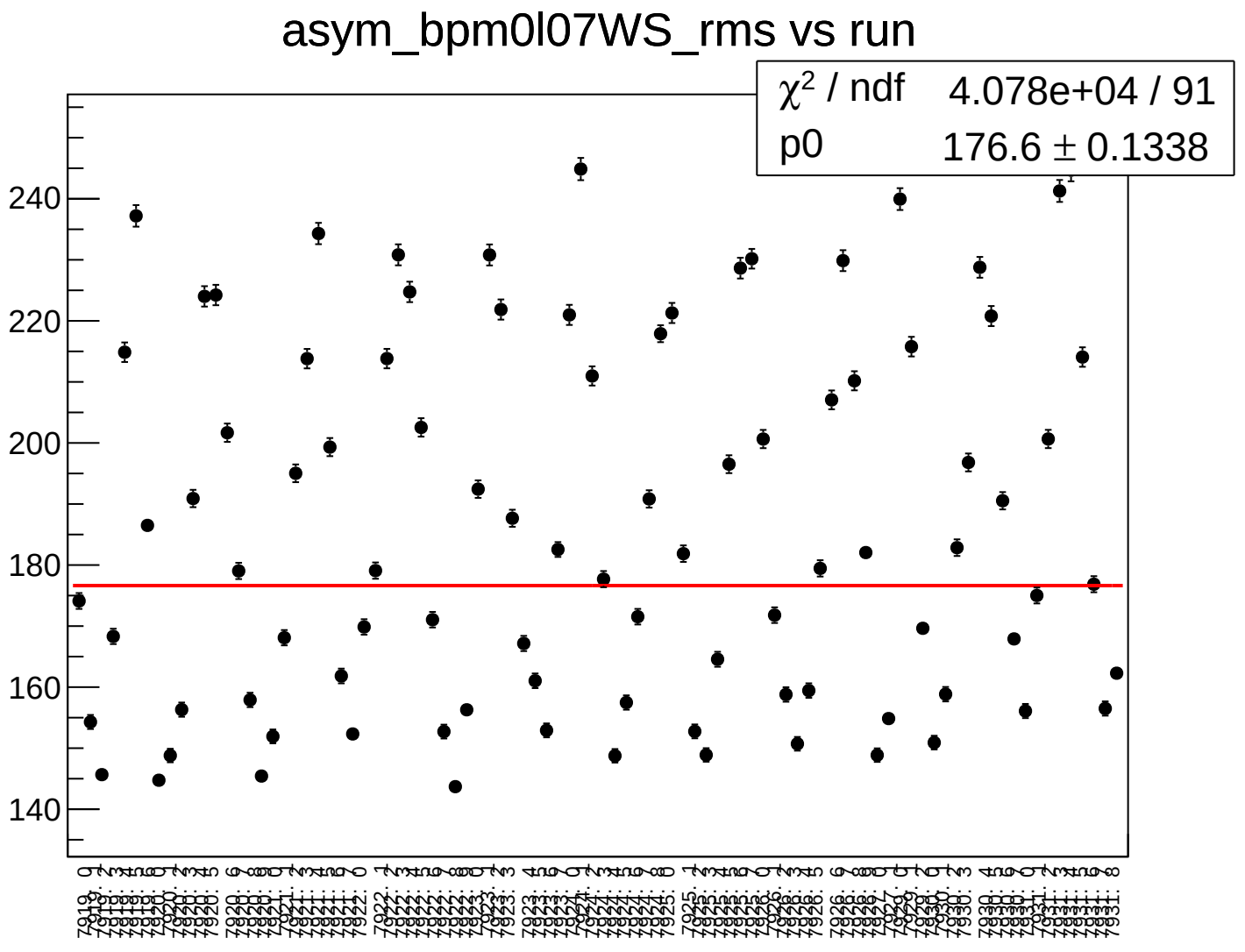

asym_bpm0l05WS_rms vs run
χ² / ndf 4234 / 91
p0 208.8 ± 0.1566
230
220
210
200
190
180

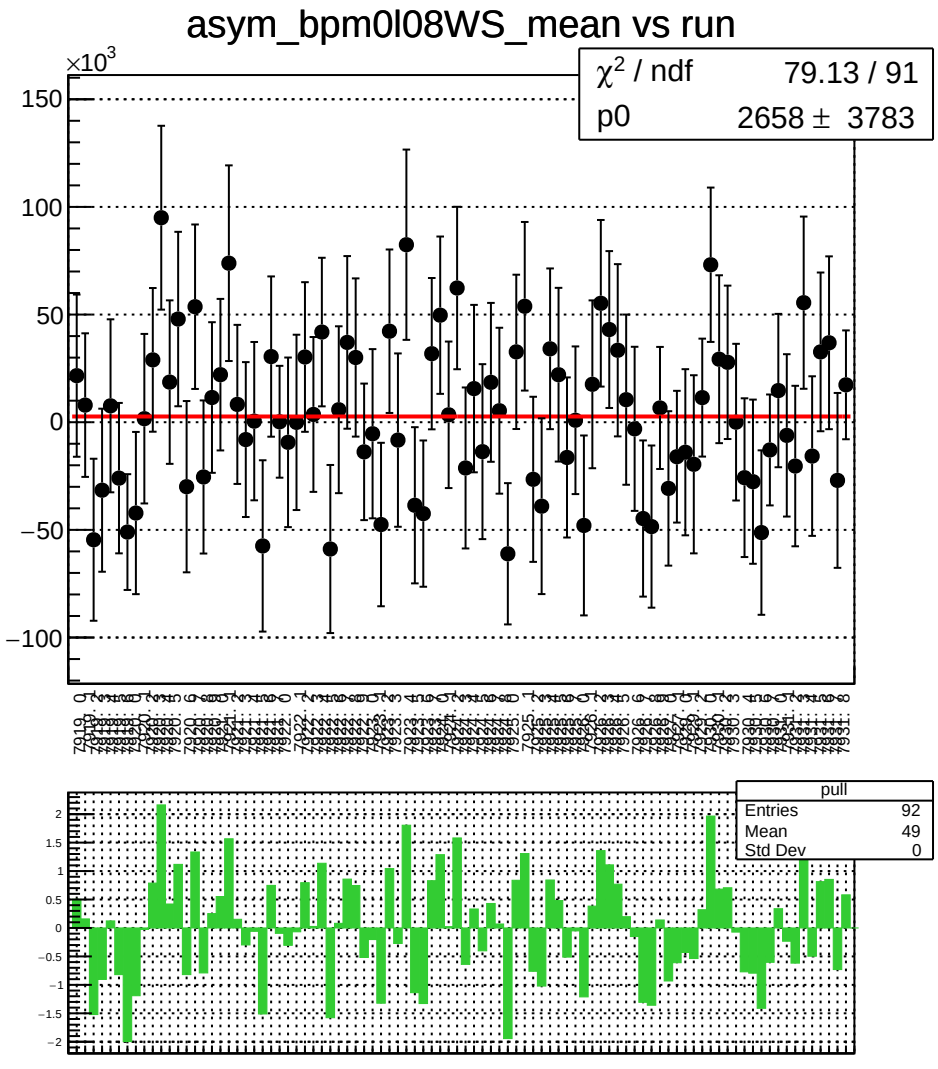

asym_bpm0l06WS_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 93.82 / 91
p0 −1572 ± 3292
pull
Entries 92
Mean 130
Std Dev 0
2
1
0
−1
−2

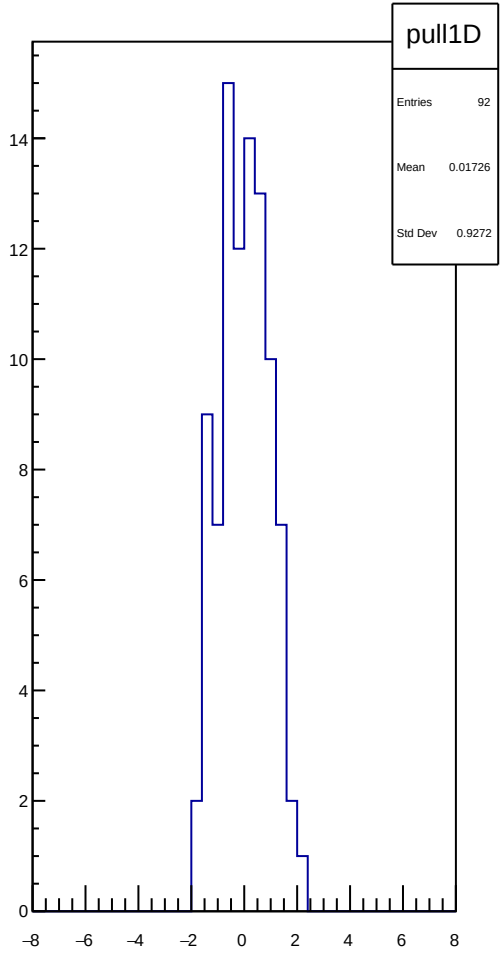

pull1D
Entries 92
Mean −0.02548
Std Dev 1.01
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

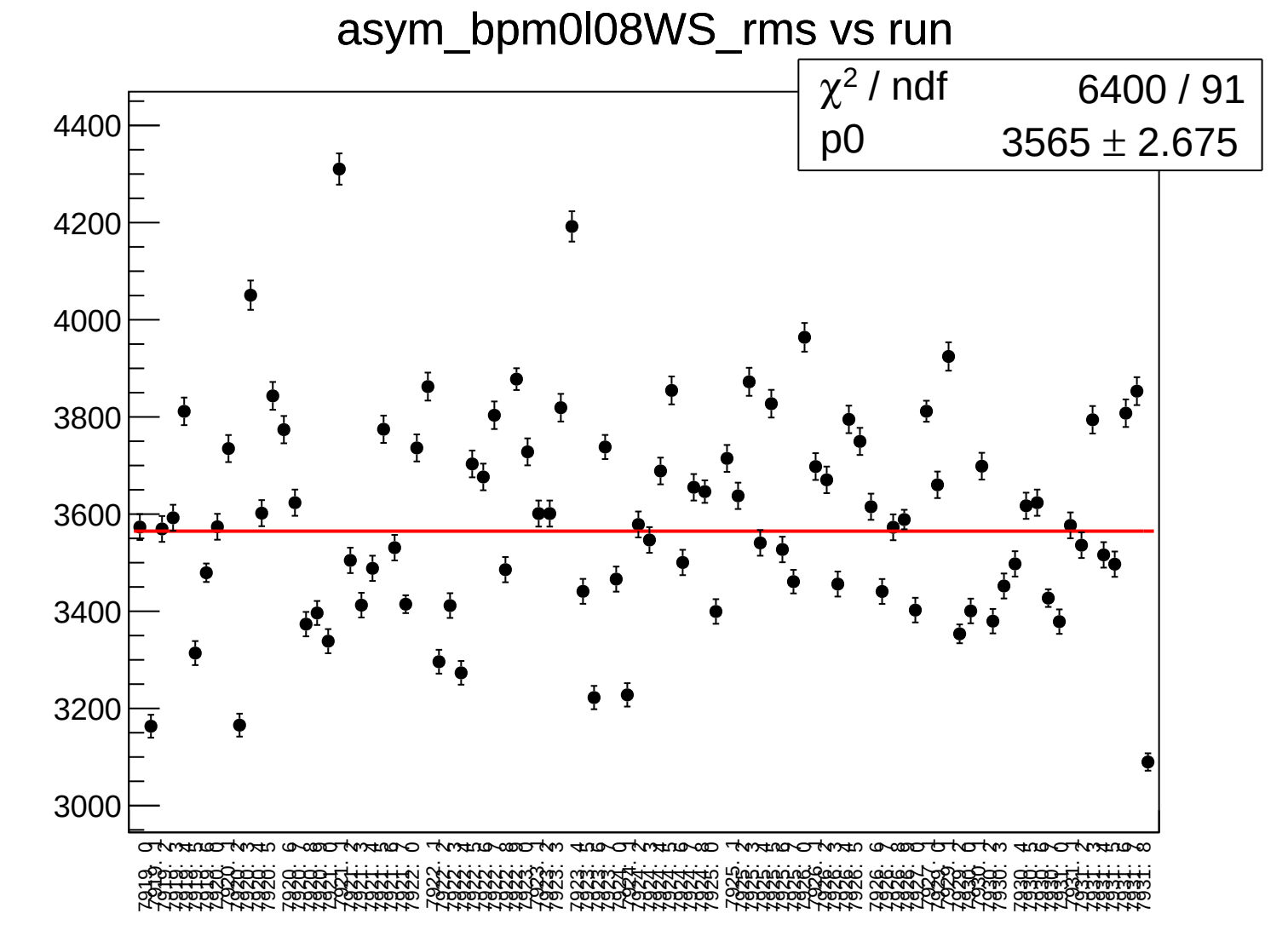

asym_bpm0l06WS_rms vs run
χ² / ndf 3.034e+04 / 91
p0 3081 ± 2.328
4400
4200
4000
3800
3600
3400
3200
3000
2800
2600
2400
2200

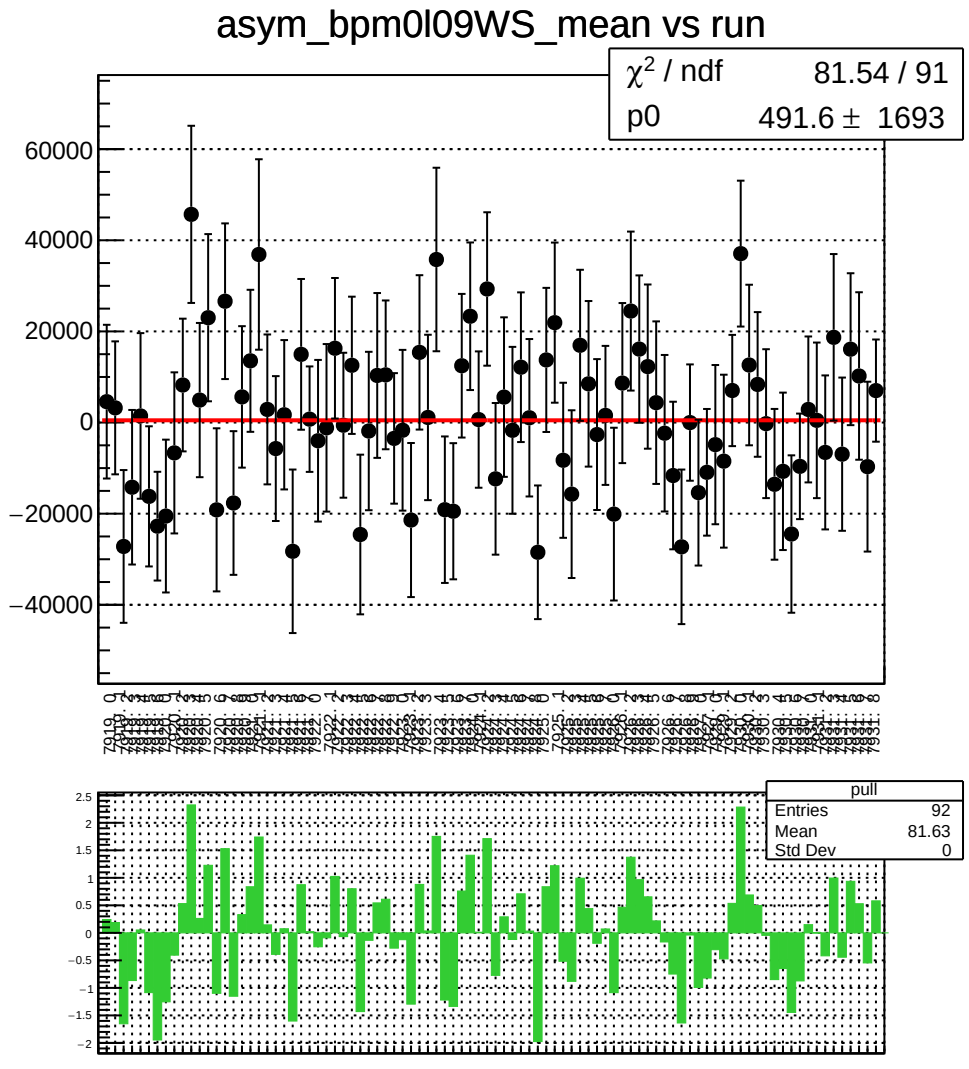

asym_bpm0l07WS_mean vs run
χ² / ndf 76.44 / 91
p0 1.36e+04 ± 189.3
pull
Entries 92
Mean −736.9
Std Dev 0
pull1D
Entries 92
Mean −0.009638
Std Dev 0.9115

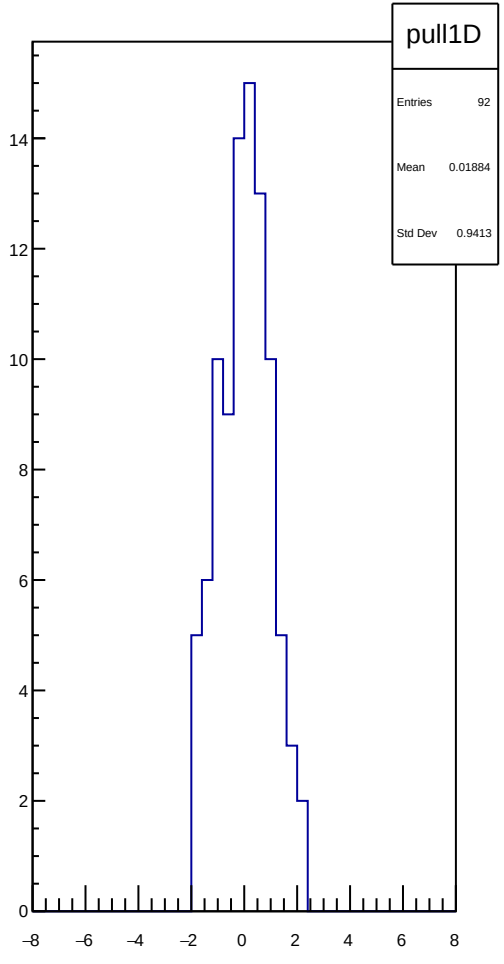

asym_bpm0l07WS_rms vs run
χ² / ndf 4.078e+04 / 91
p0 176.6 ± 0.1338
240
220
200
180
160
140

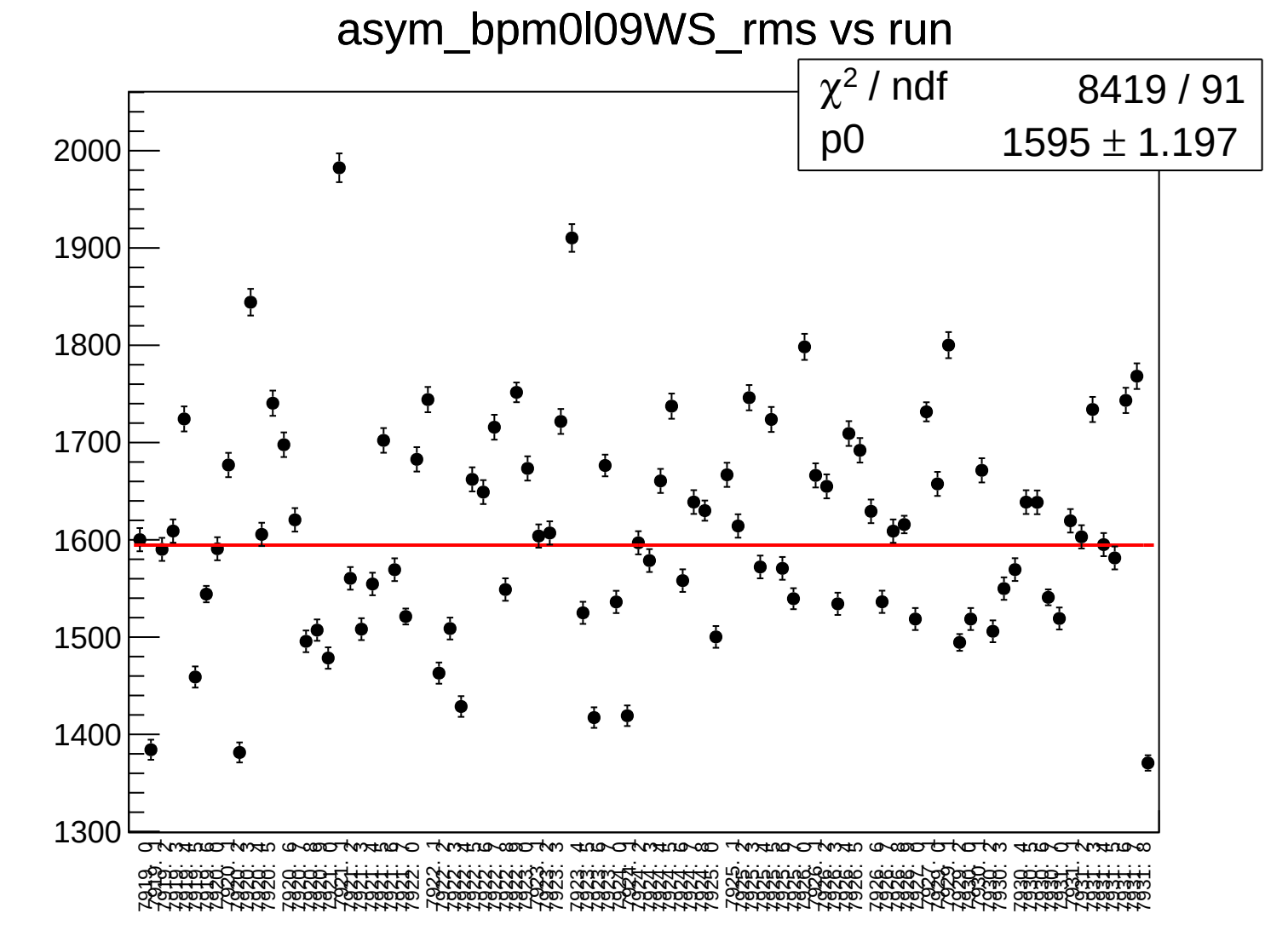

asym_bpm0l08WS_mean vs run
×10^3
χ^2 / ndf 79.13 / 91
p0 2658 ± 3783
150
100
50
0
−50
−100
pull
Entries 92
Mean 49
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

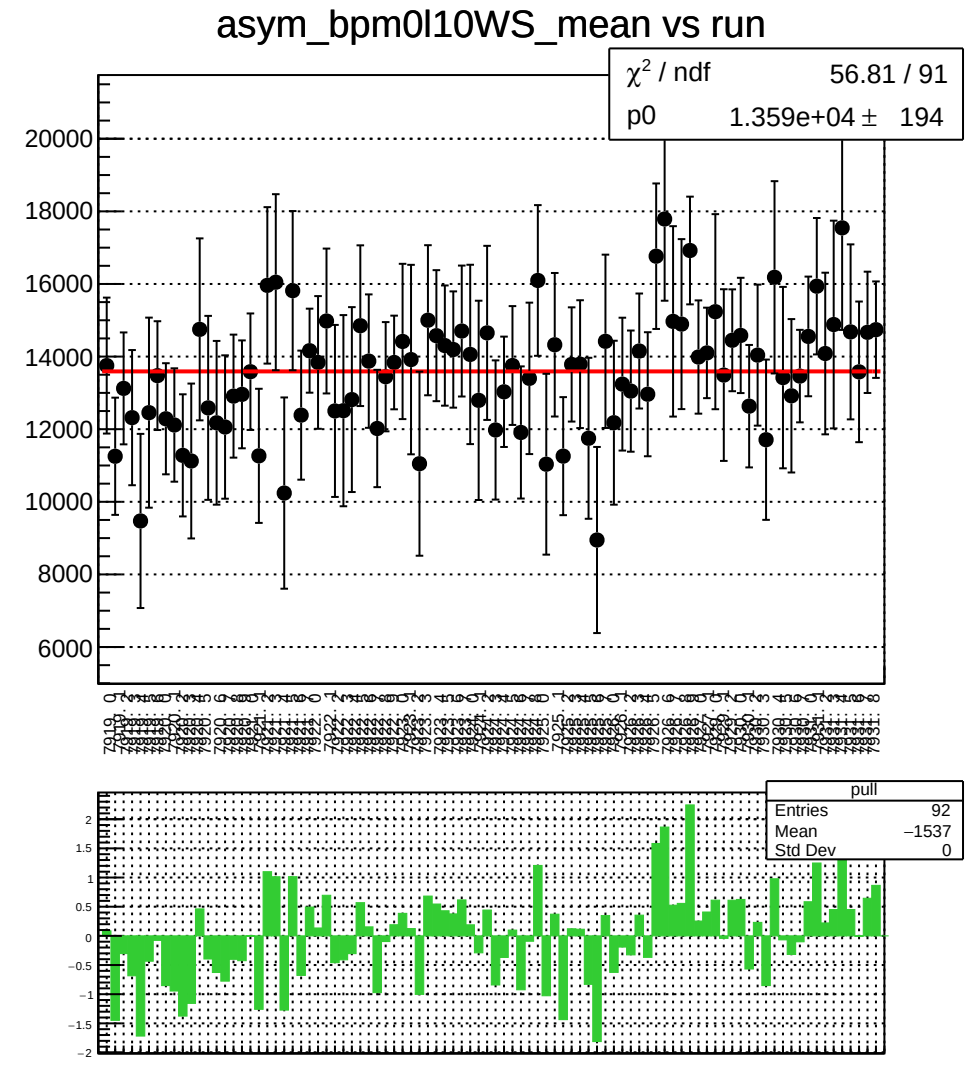

pull1D
Entries 92
Mean 0.01726
Std Dev 0.9272
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

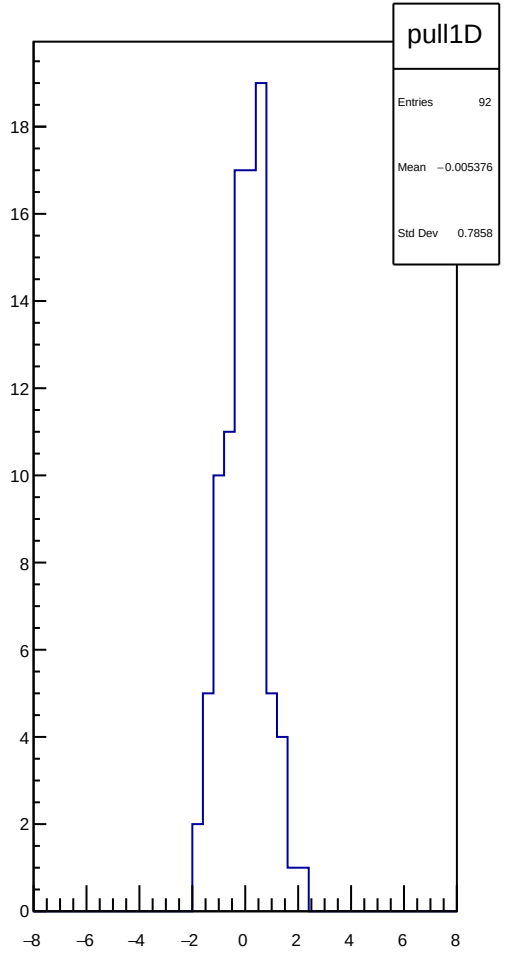

asym_bpm0l08WS_rms vs run
χ^2 / ndf 6400 / 91
p0 3565 ± 2.675
4400
4200
4000
3800
3600
3400
3200
3000

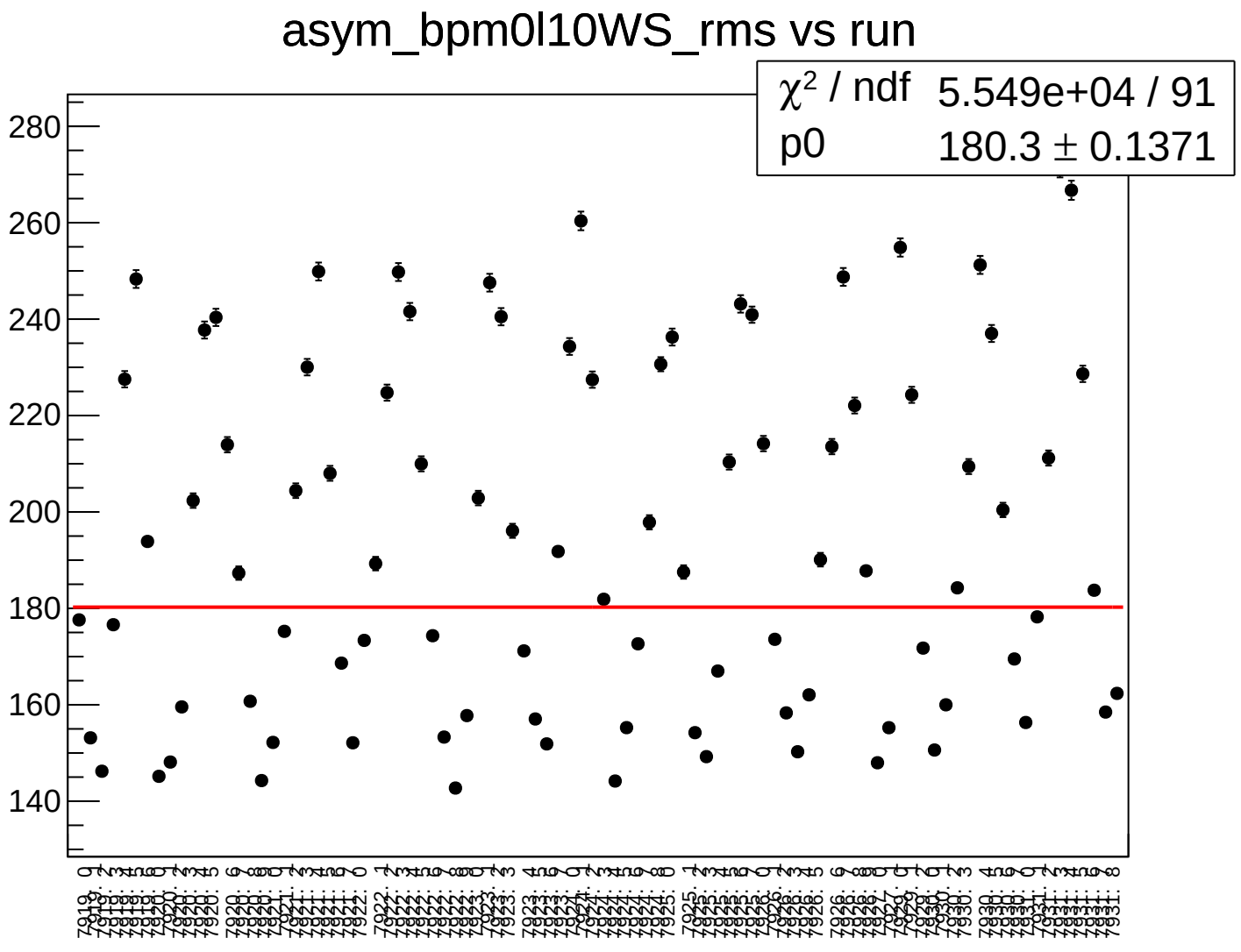

asym_bpm0l09WS_mean vs run
χ² / ndf 81.54 / 91
p0 491.6 ± 1693
60000
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 81.63
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

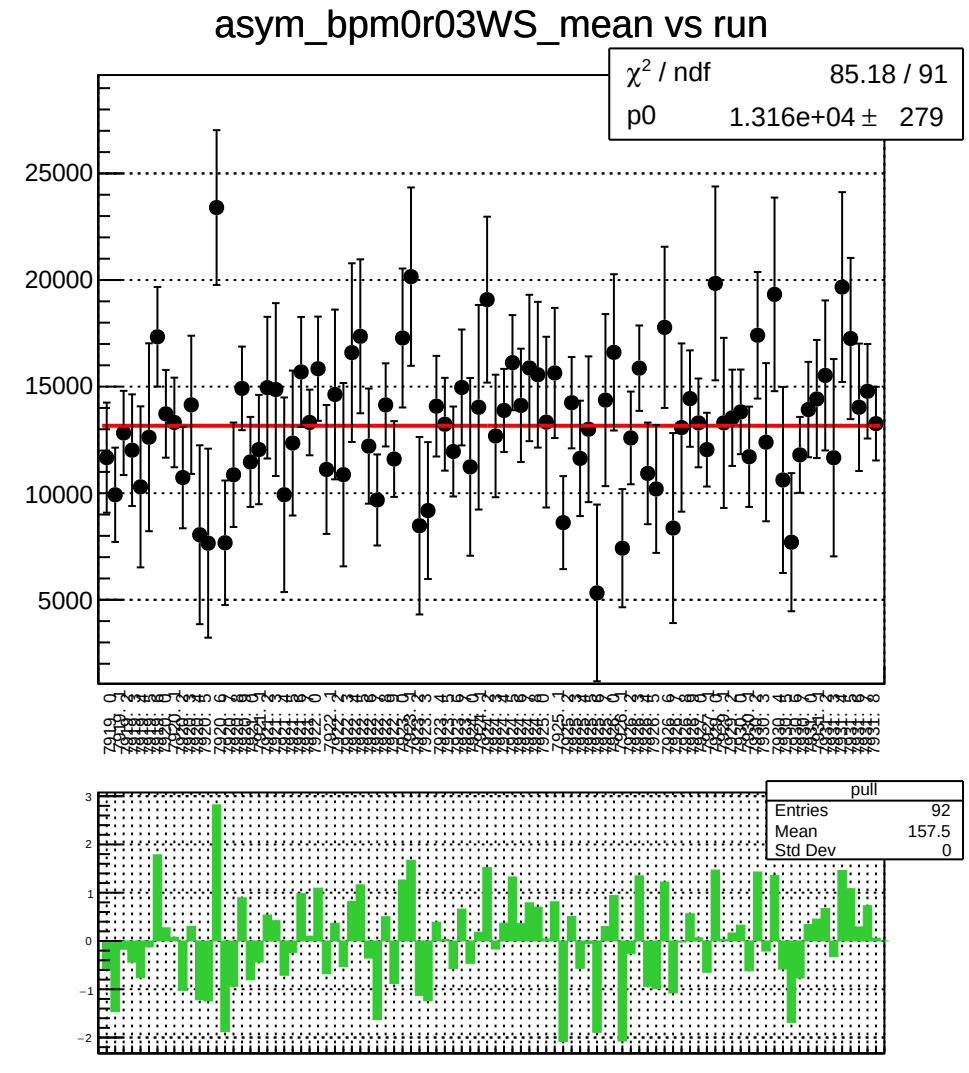

pull1D
Entries 92
Mean 0.01884
Std Dev 0.9413
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

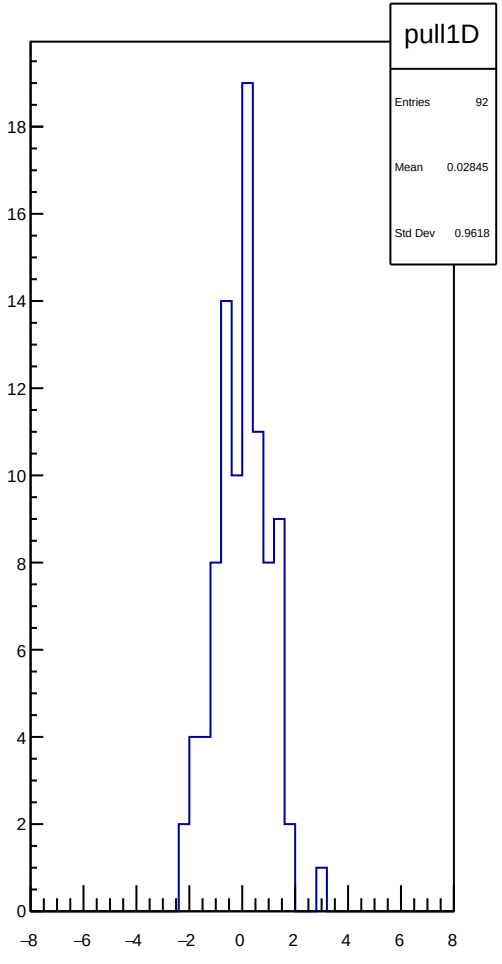

asym_bpm0l09WS_rms vs run
χ² / ndf 8419 / 91
p0 1595 ± 1.197
2000
1900
1800
1700
1600
1500
1400
1300

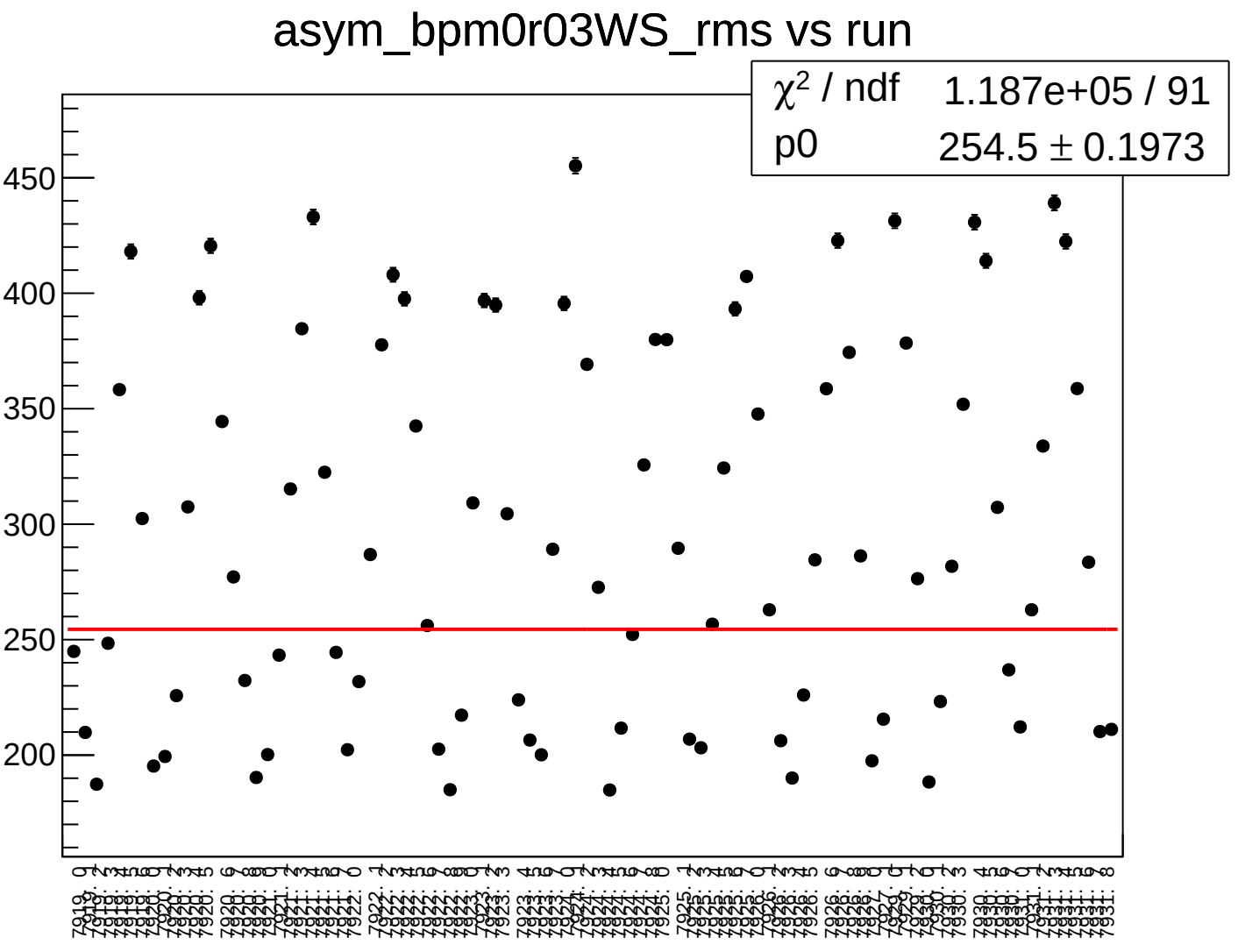

asym_bpm0l10WS_mean vs run
χ² / ndf 56.81 / 91
p0 1.359e+04 ± 194
pull
Entries 92
Mean −1537
Std Dev 0

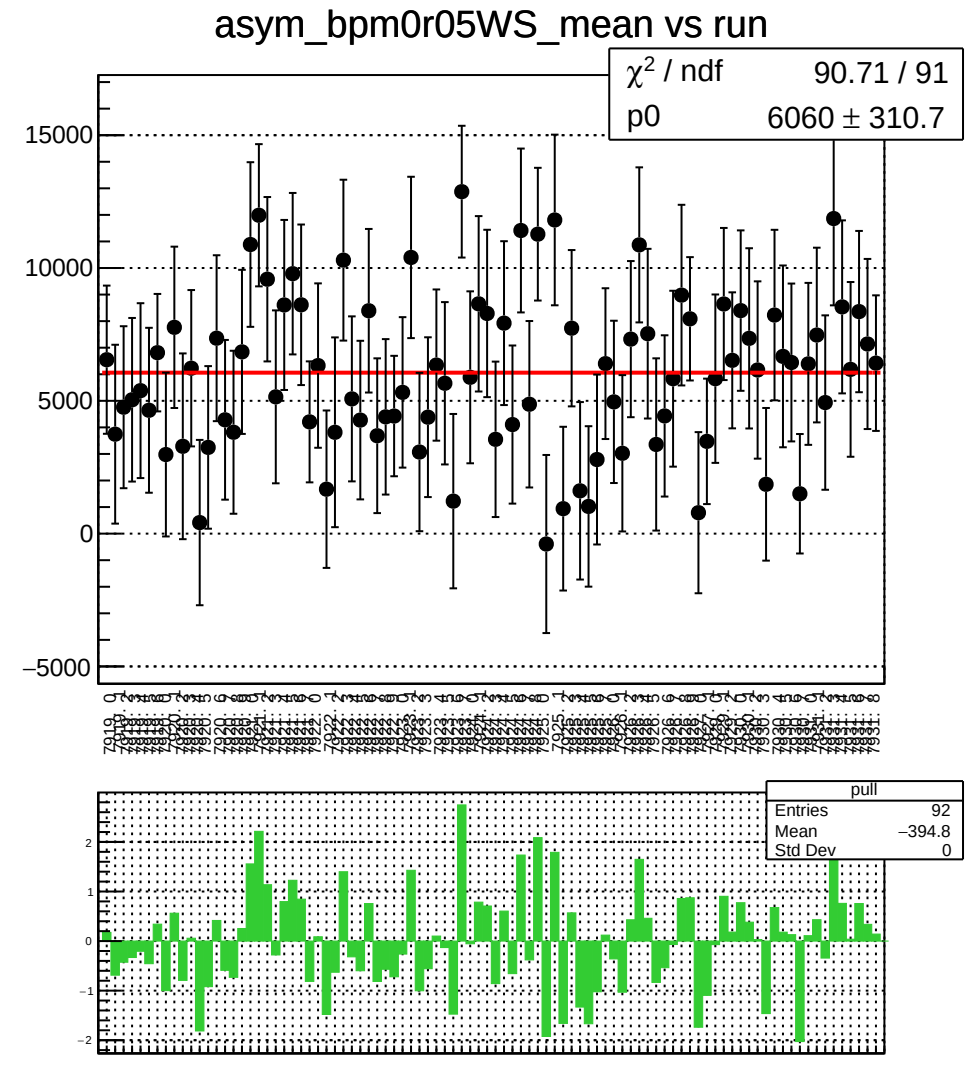

pull1D
Entries 92
Mean −0.005376
Std Dev 0.7858

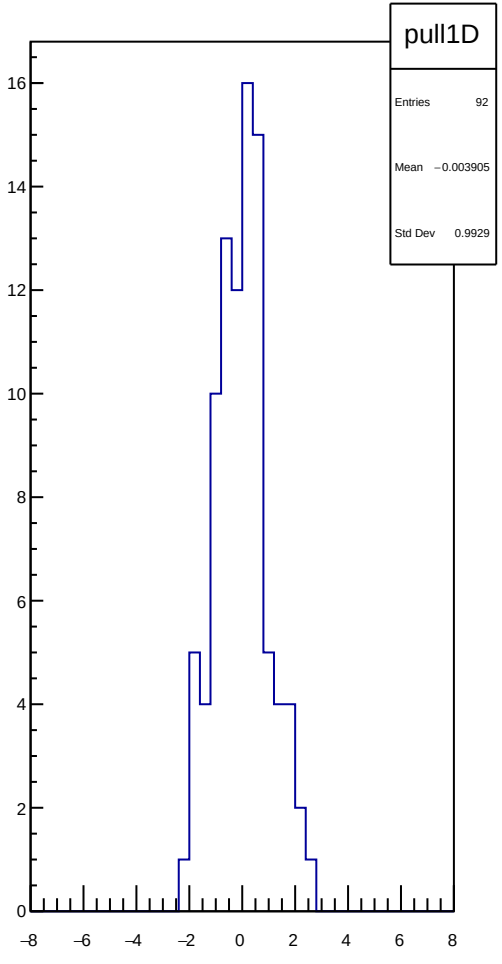

asym_bpm0l10WS_rms vs run
χ² / ndf 5.549e+04 / 91
p0 180.3 ± 0.1371
280
260
240
220
200
180
160
140

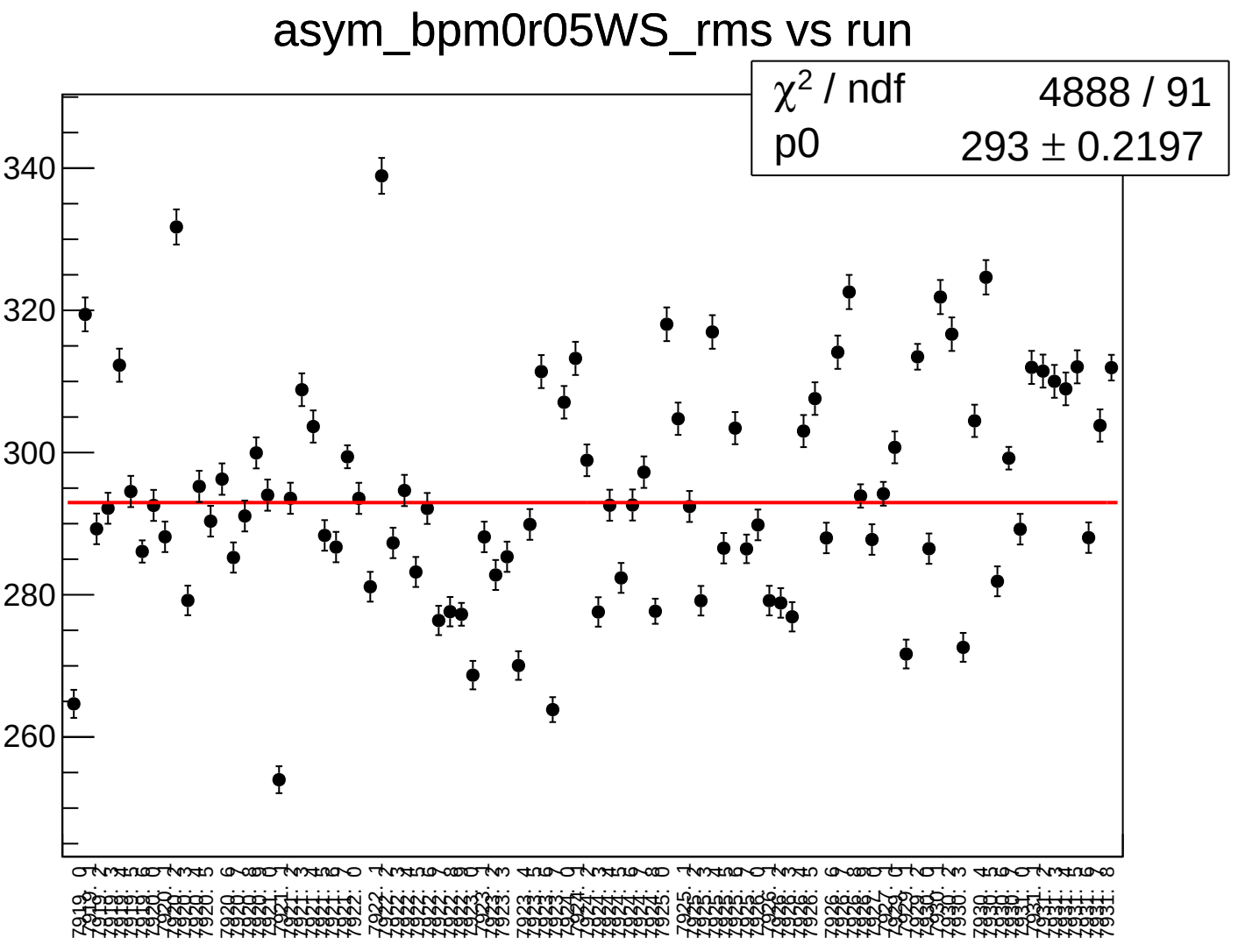

asym_bpm0r03WS_mean vs run
χ² / ndf 85.18 / 91
p0 1.316e+04 ± 279
25000
20000
15000
10000
5000
pull
Entries 92
Mean 157.5
Std Dev 0
3
2
1
0
−1
−2

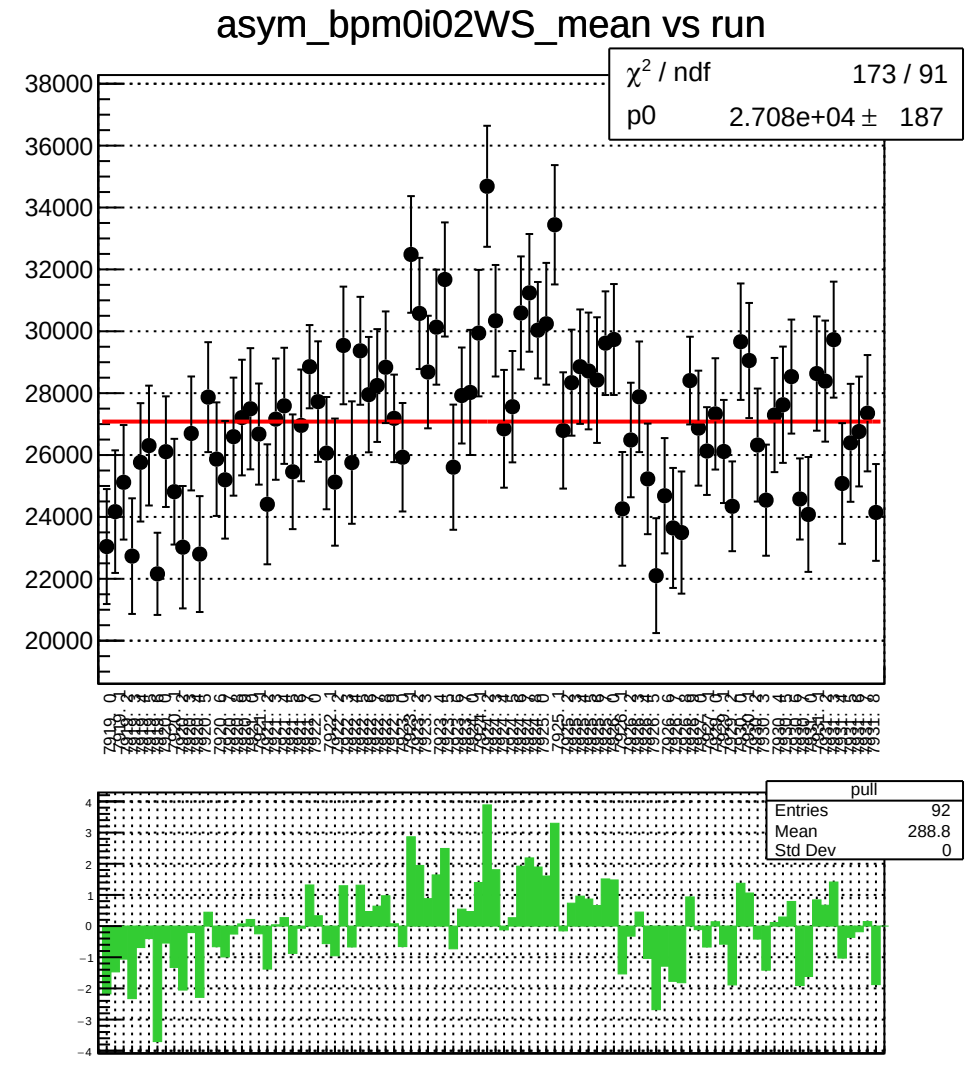

pull1D
Entries 92
Mean 0.02845
Std Dev 0.9618
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

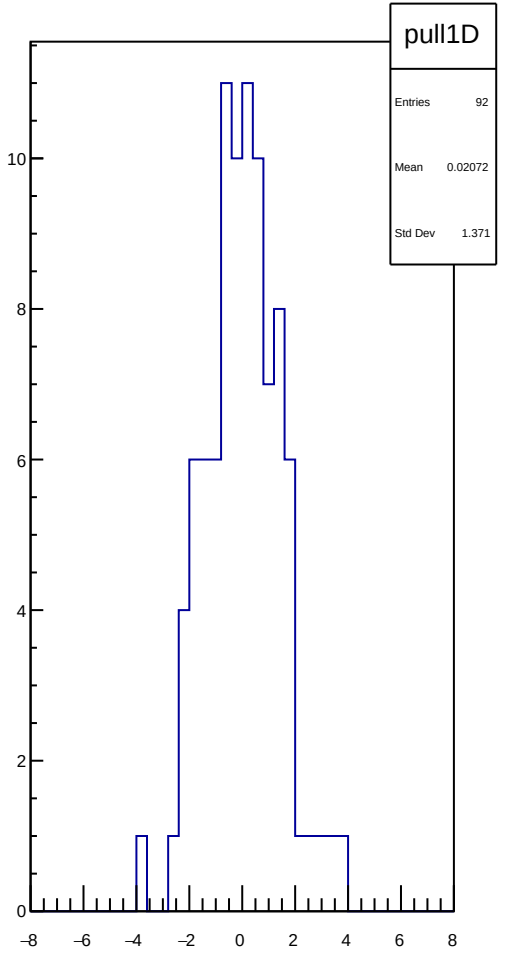

asym_bpm0r03WS_rms vs run
χ^2 / ndf 1.187e+05 / 91
p0 254.5 ± 0.1973
450
400
350
300
250
200

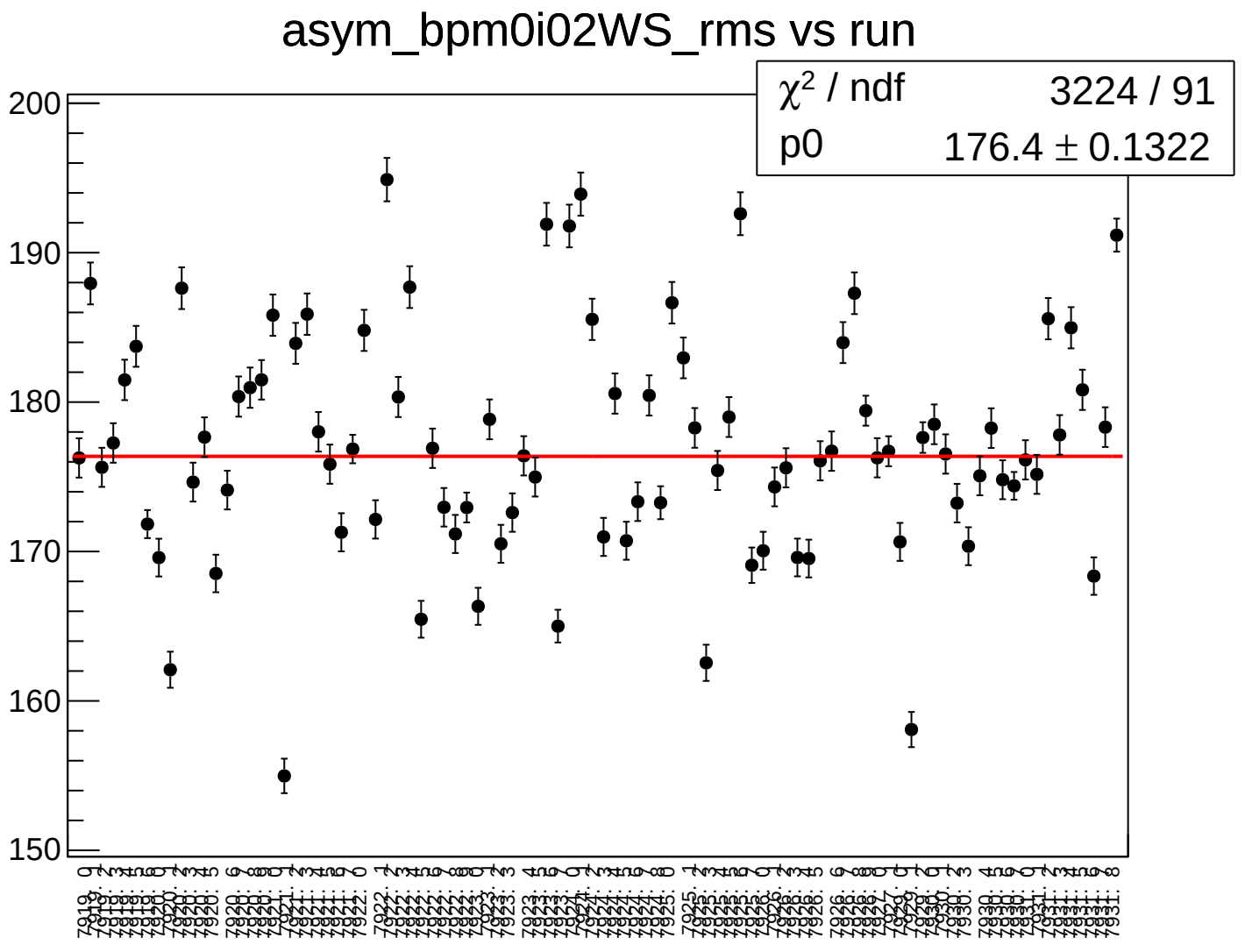

asym_bpm0r05WS_mean vs run
χ² / ndf 90.71 / 91
p0 6060 ± 310.7
15000
10000
5000
0
−5000
pull
Entries 92
Mean −394.8
Std Dev 0
2
1
0
−1
−2

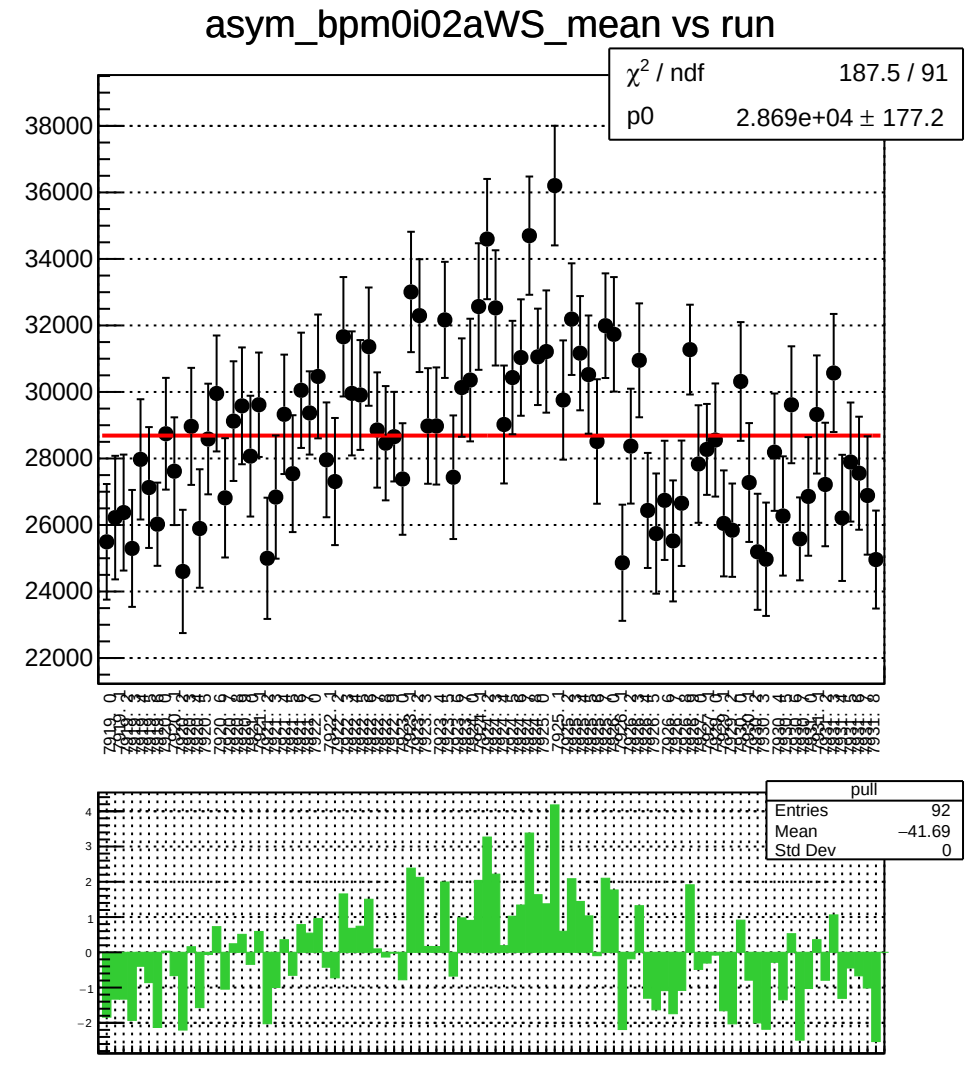

pull1D
Entries 92
Mean −0.003905
Std Dev 0.9929
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

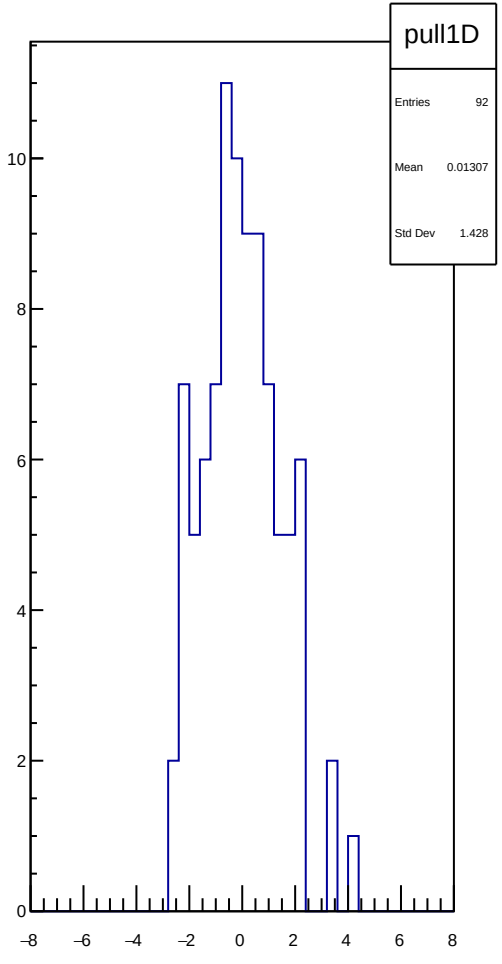

asym_bpm0r05WS_rms vs run
χ² / ndf 4888 / 91
p0 293 ± 0.2197
340
320
300
280
260

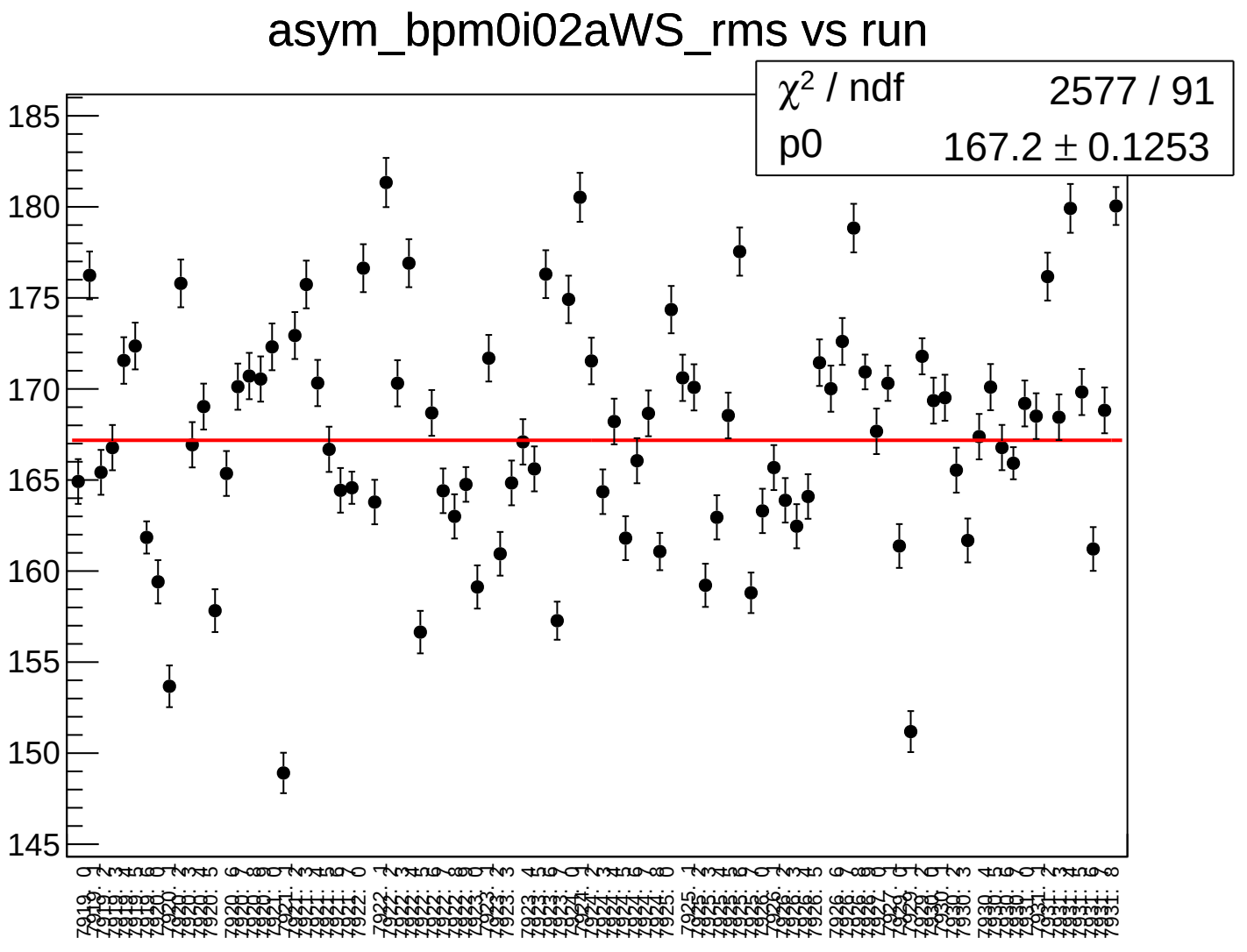

asym_bpm0i02WS_mean vs run
χ² / ndf 173 / 91
p0 2.708e+04 ± 187
pull
Entries 92
Mean 288.8
Std Dev 0

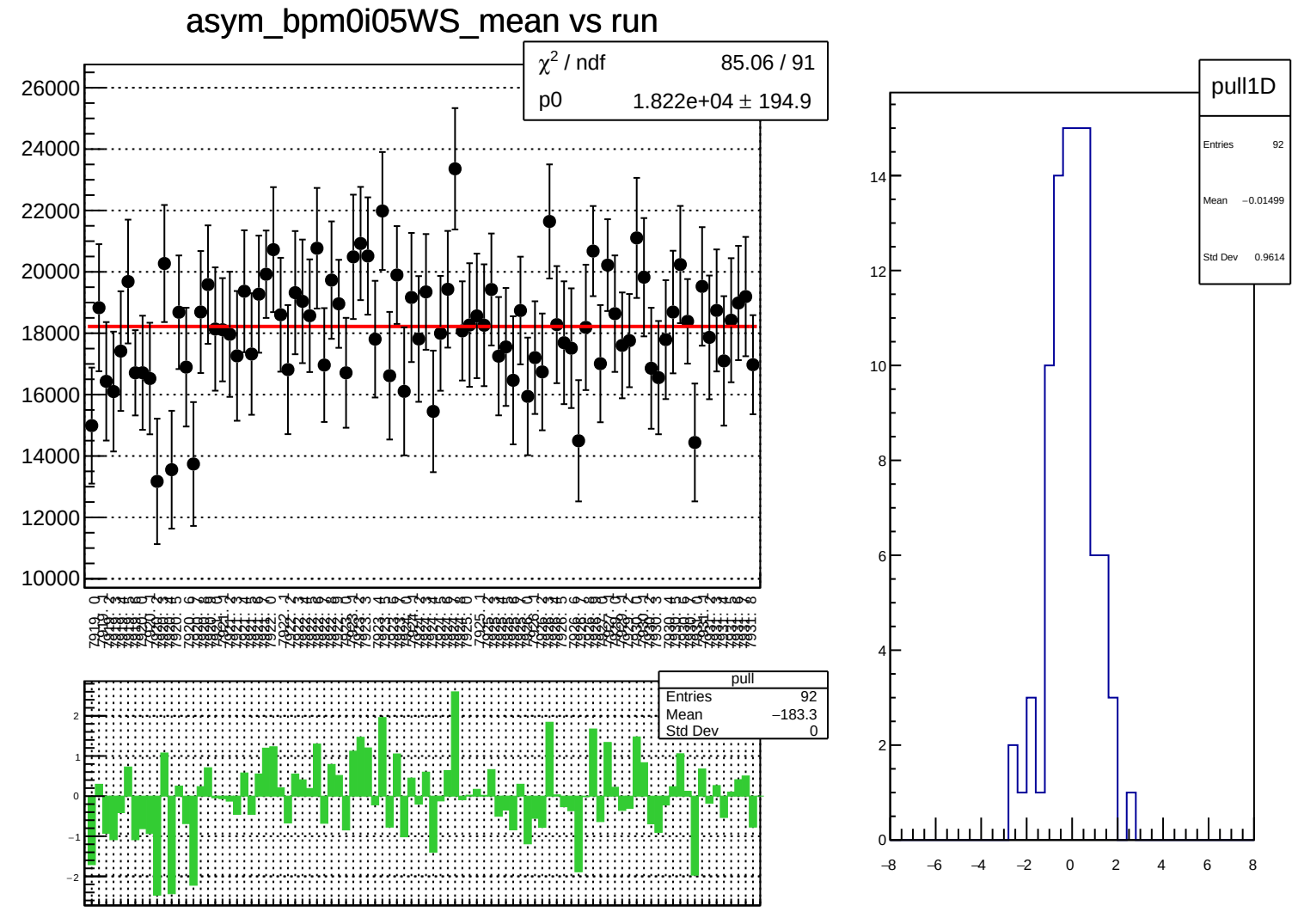

pull1D
Entries 92
Mean 0.02072
Std Dev 1.371

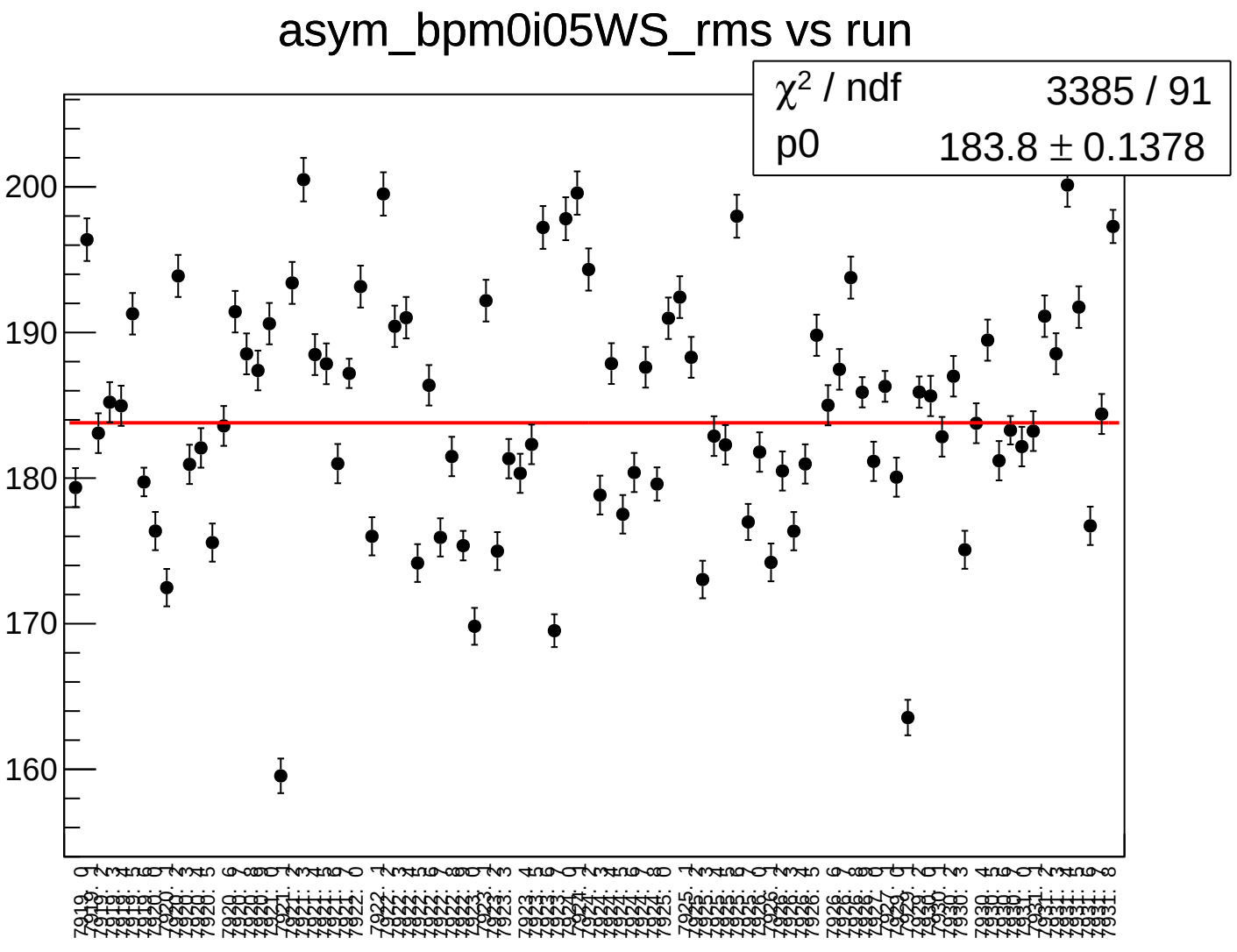

asym_bpm0i02WS_rms vs run
χ² / ndf 3224 / 91
p0 176.4 ± 0.1322
200
190
180
170
160
150

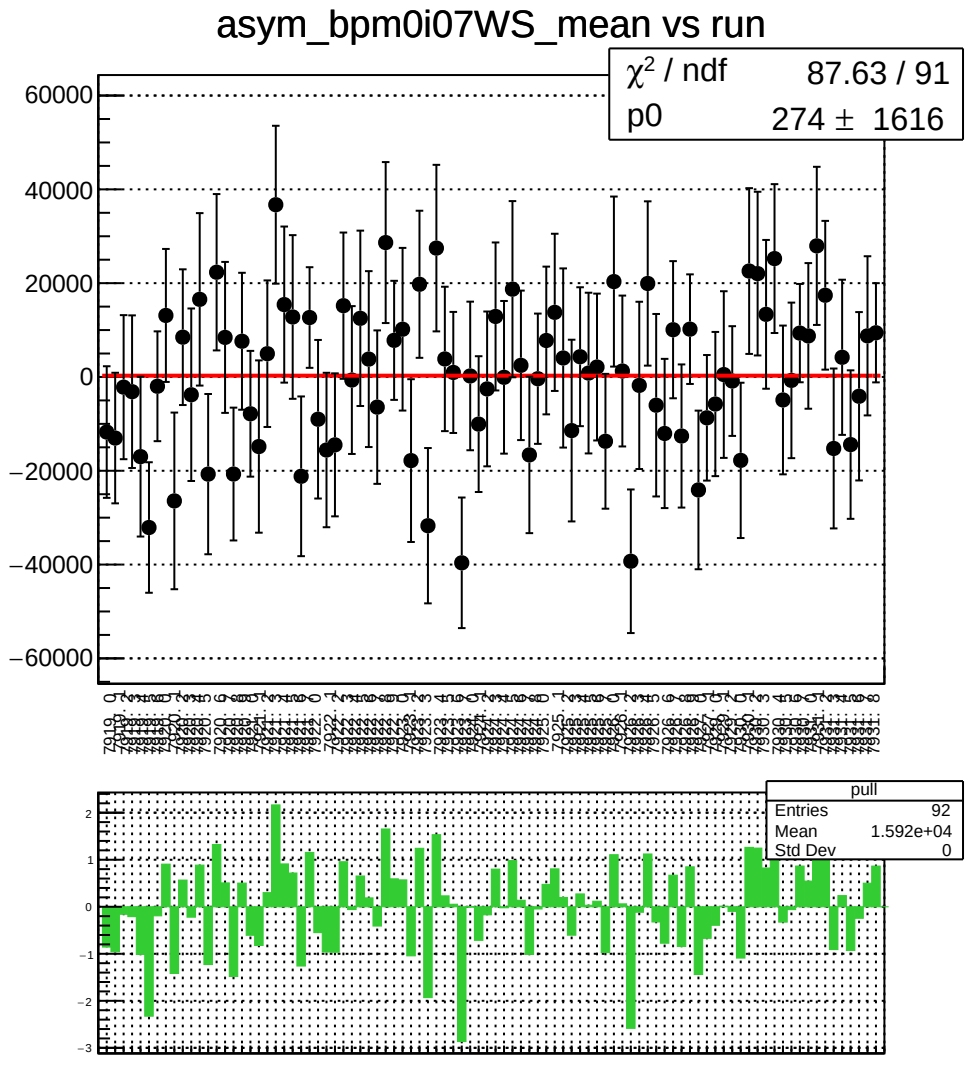

asym_bpm0i02aWS_mean vs run
χ² / ndf 187.5 / 91
p0 2.869e+04 ± 177.2
38000
36000
34000
32000
30000
28000
26000
24000
22000
pull
Entries 92
Mean −41.69
Std Dev 0
4
3
2
1
0
−1
−2

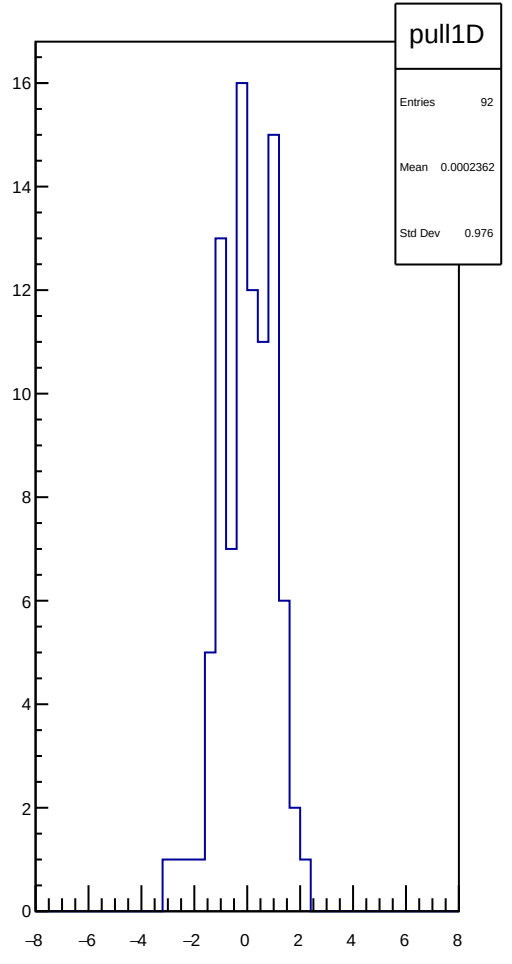

pull1D
Entries 92
Mean 0.01307
Std Dev 1.428
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

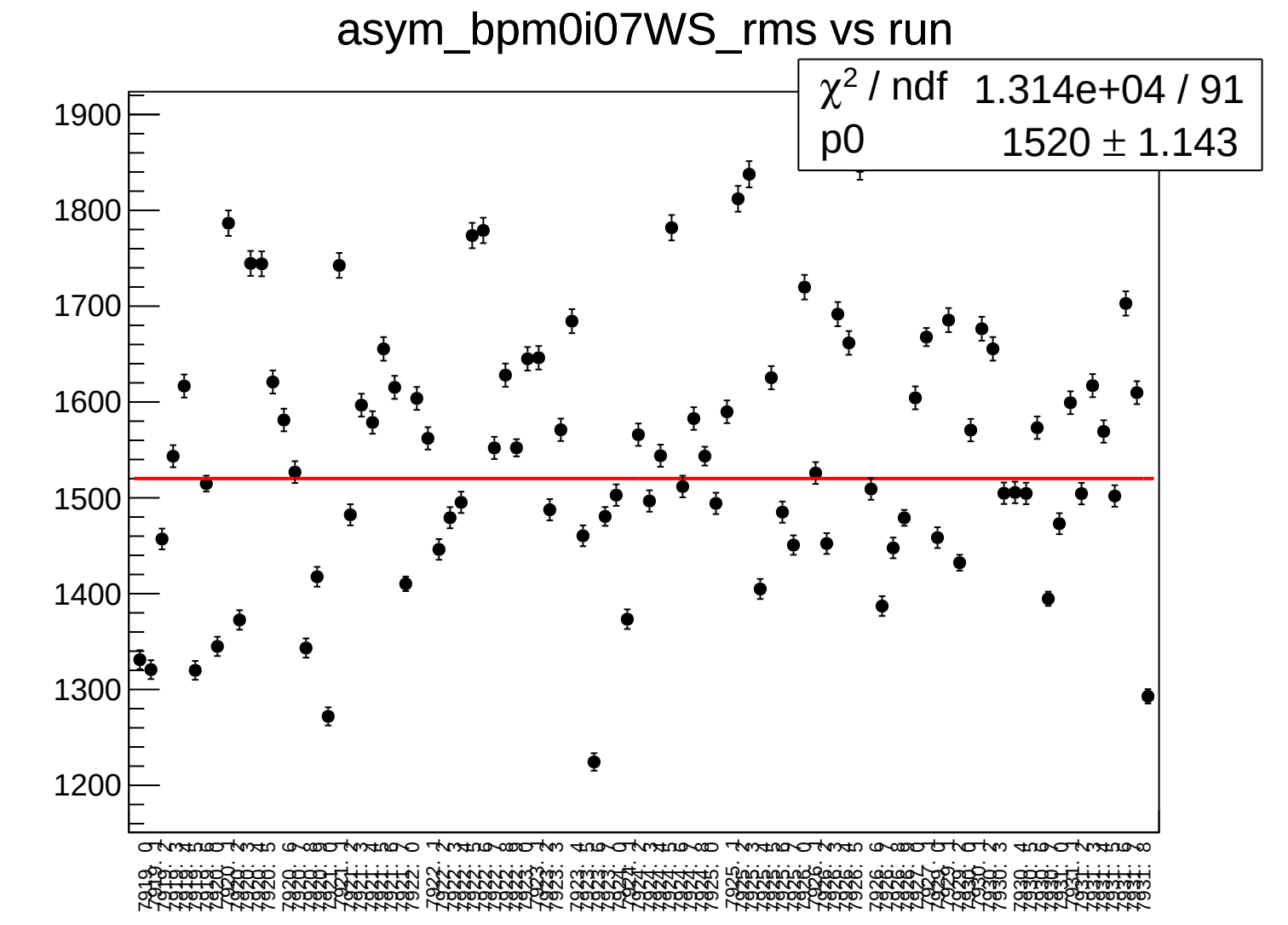

asym_bpm0i02aWS_rms vs run
χ² / ndf 2577 / 91
p0 167.2 ± 0.1253
185
180
175
170
165
160
155
150
145

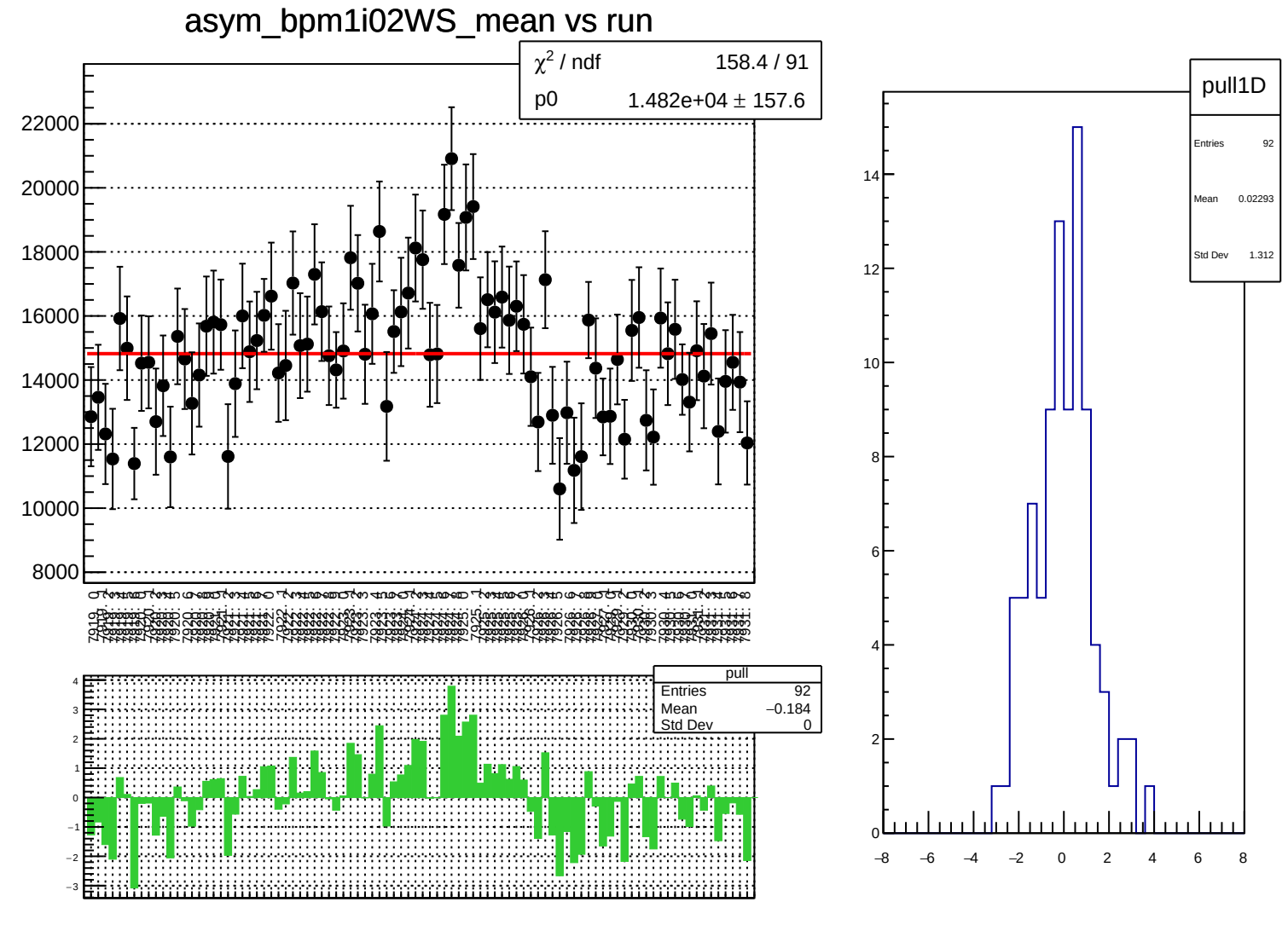

asym_bpm0i05WS_mean vs run
χ² / ndf 85.06 / 91
p0 1.822e+04 ± 194.9
pull
Entries 92
Mean −183.3
Std Dev 0
pull1D
Entries 92
Mean −0.01499
Std Dev 0.9614

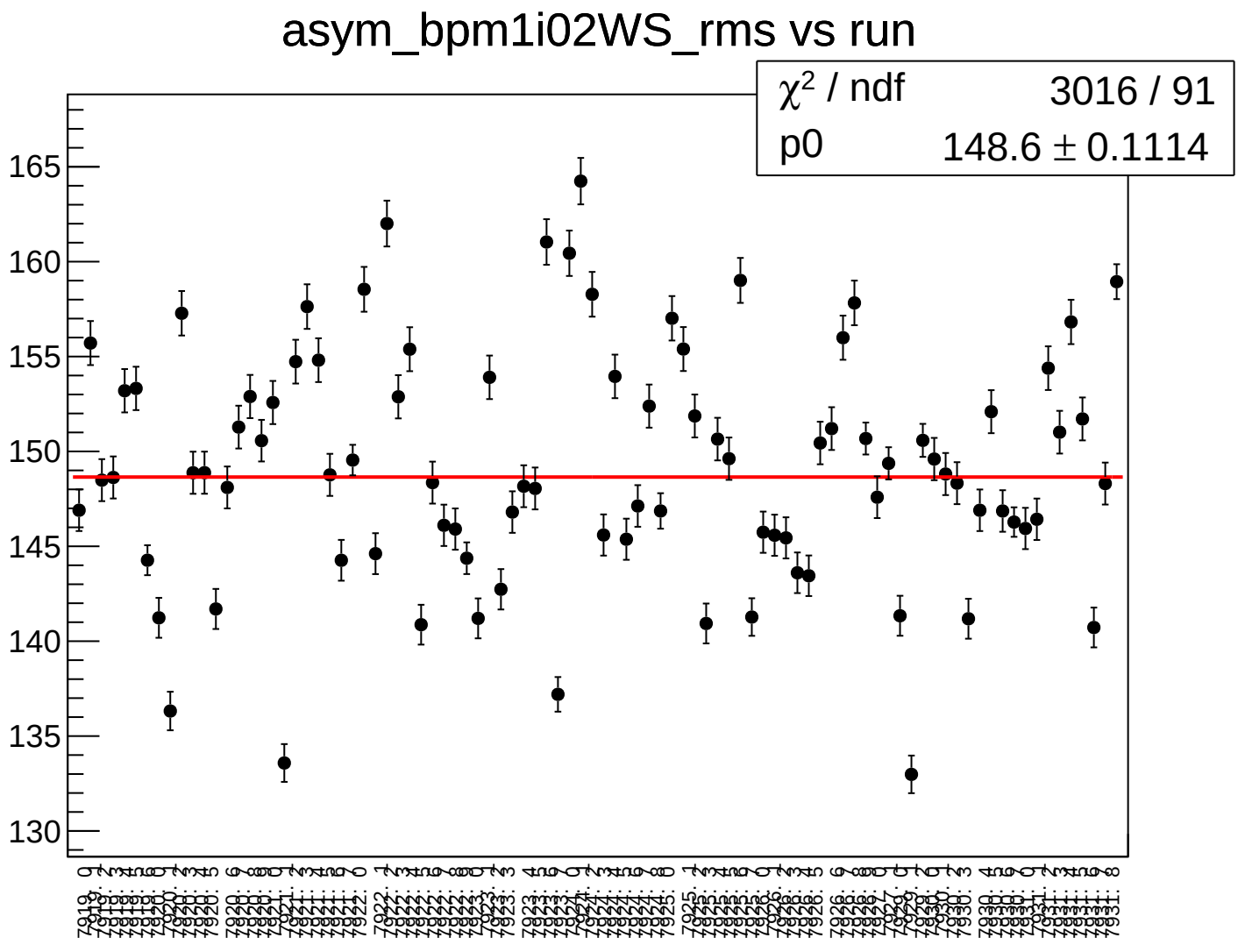

asym_bpm0i05WS_rms vs run
χ² / ndf 3385 / 91
p0 183.8 ± 0.1378
200
190
180
170
160

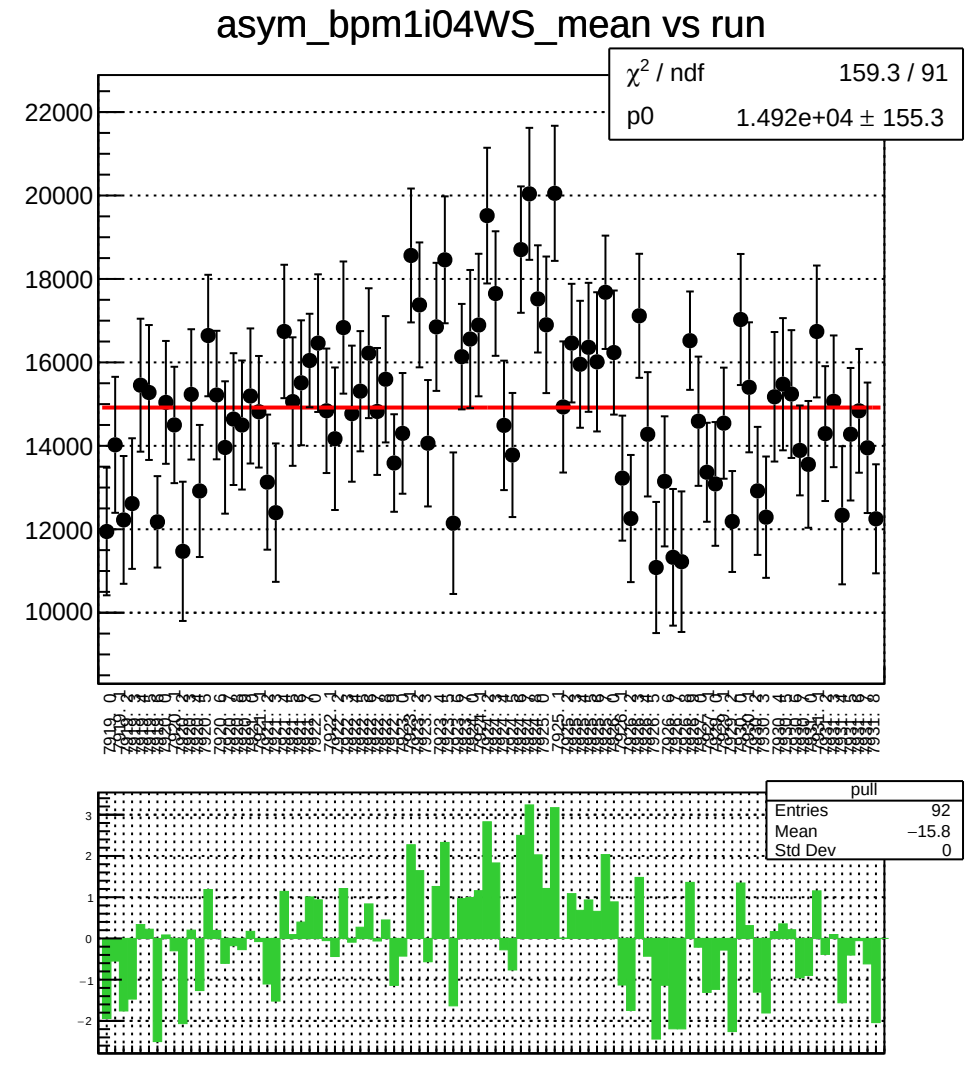

asym_bpm0i07WS_mean vs run
χ² / ndf 87.63 / 91
p0 274 ± 1616
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 1.592e+04
Std Dev 0
2
1
0
−1
−2
−3

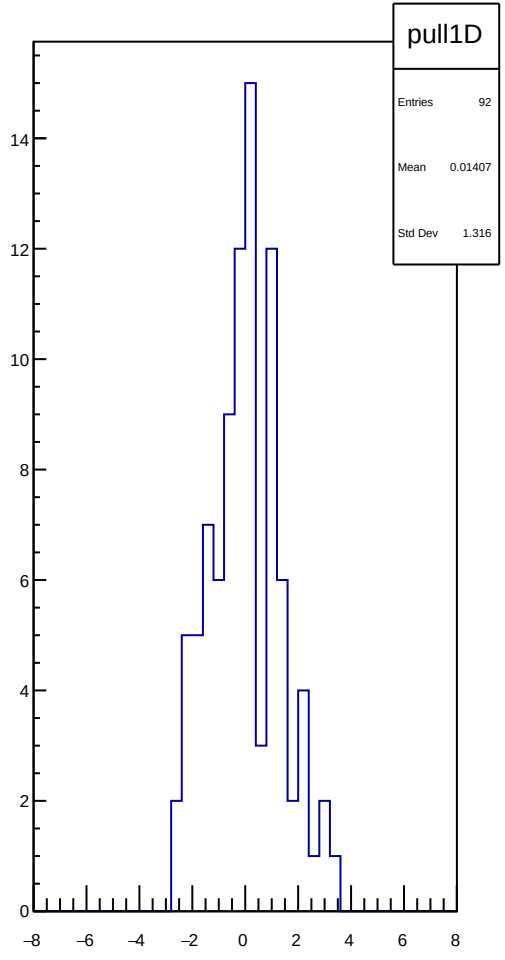

pull1D
Entries 92
Mean 0.0002362
Std Dev 0.976
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

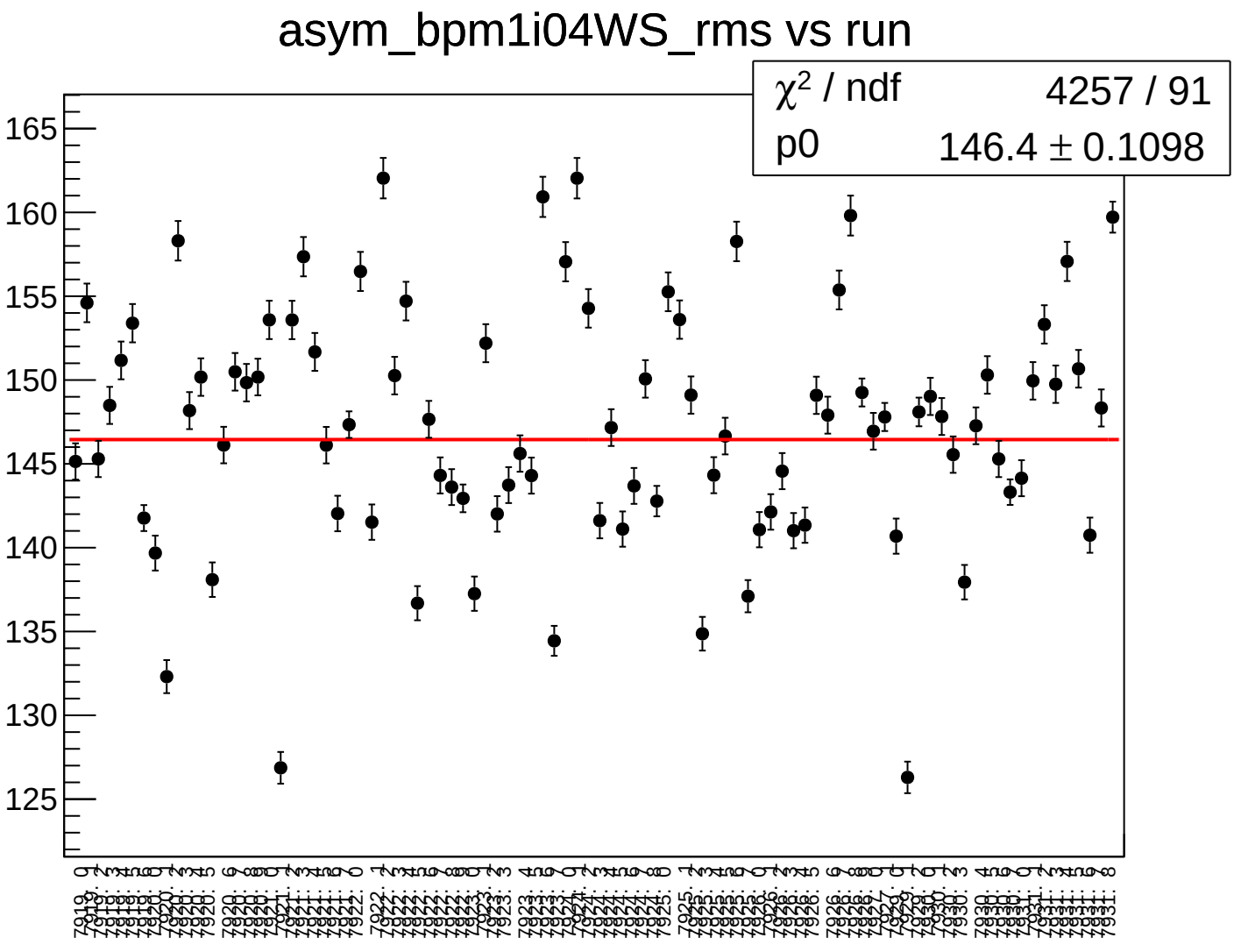

asym_bpm0i07WS_rms vs run
χ^2 / ndf 1.314e+04 / 91
p0 1520 ± 1.143
1900
1800
1700
1600
1500
1400
1300
1200

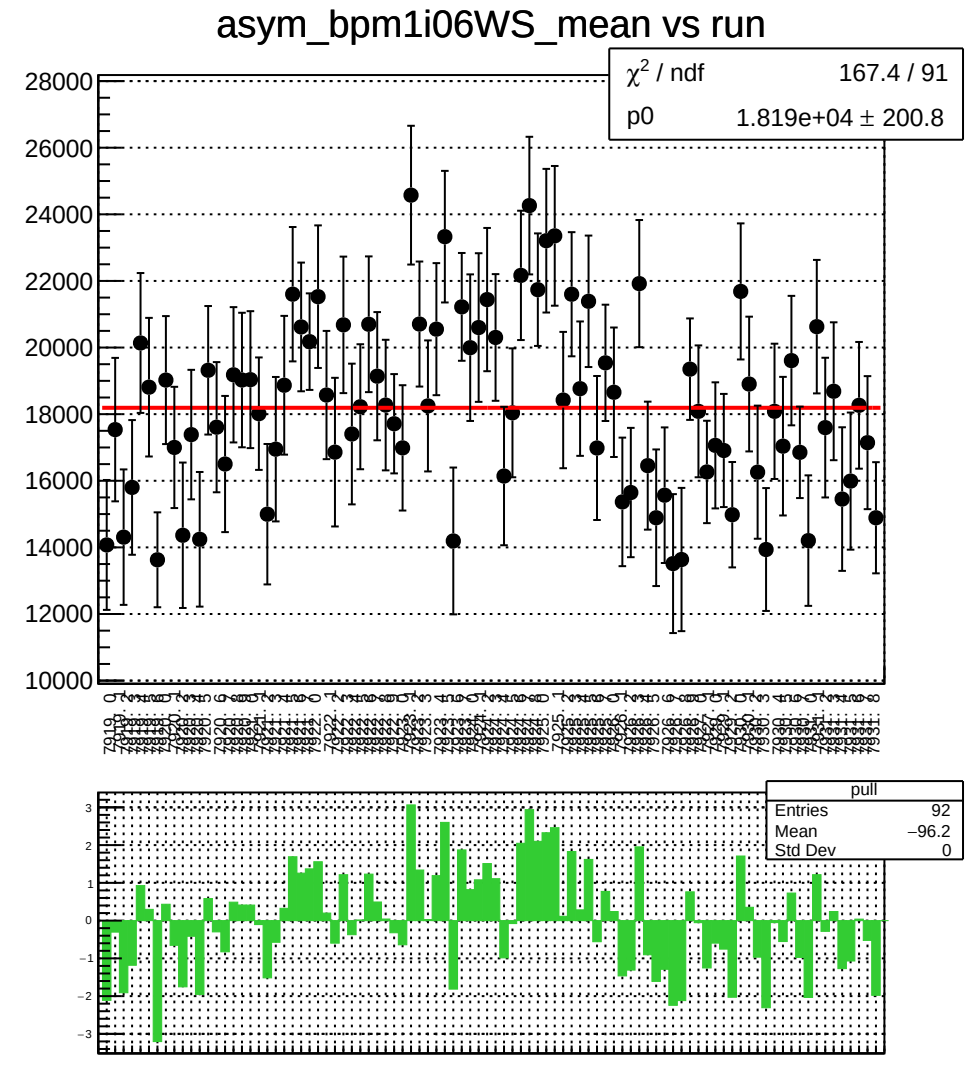

asym_bpm1i02WS_mean vs run
χ² / ndf 158.4 / 91
p0 1.482e+04 ± 157.6
22000
20000
18000
16000
14000
12000
10000
8000
pull
Entries 92
Mean −0.184
Std Dev 0
4
3
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean 0.02293
Std Dev 1.312
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

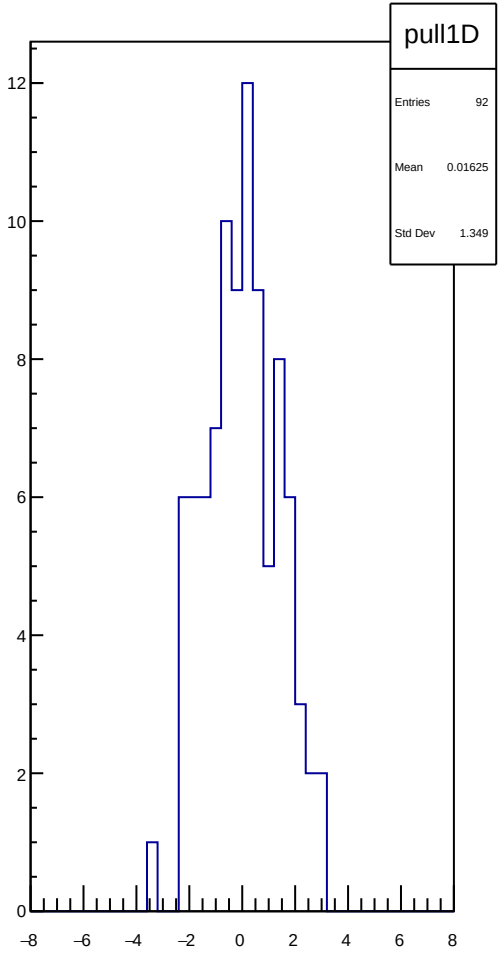

asym_bpm1i02WS_rms vs run
χ² / ndf 3016 / 91
p0 148.6 ± 0.1114
165
160
155
150
145
140
135
130

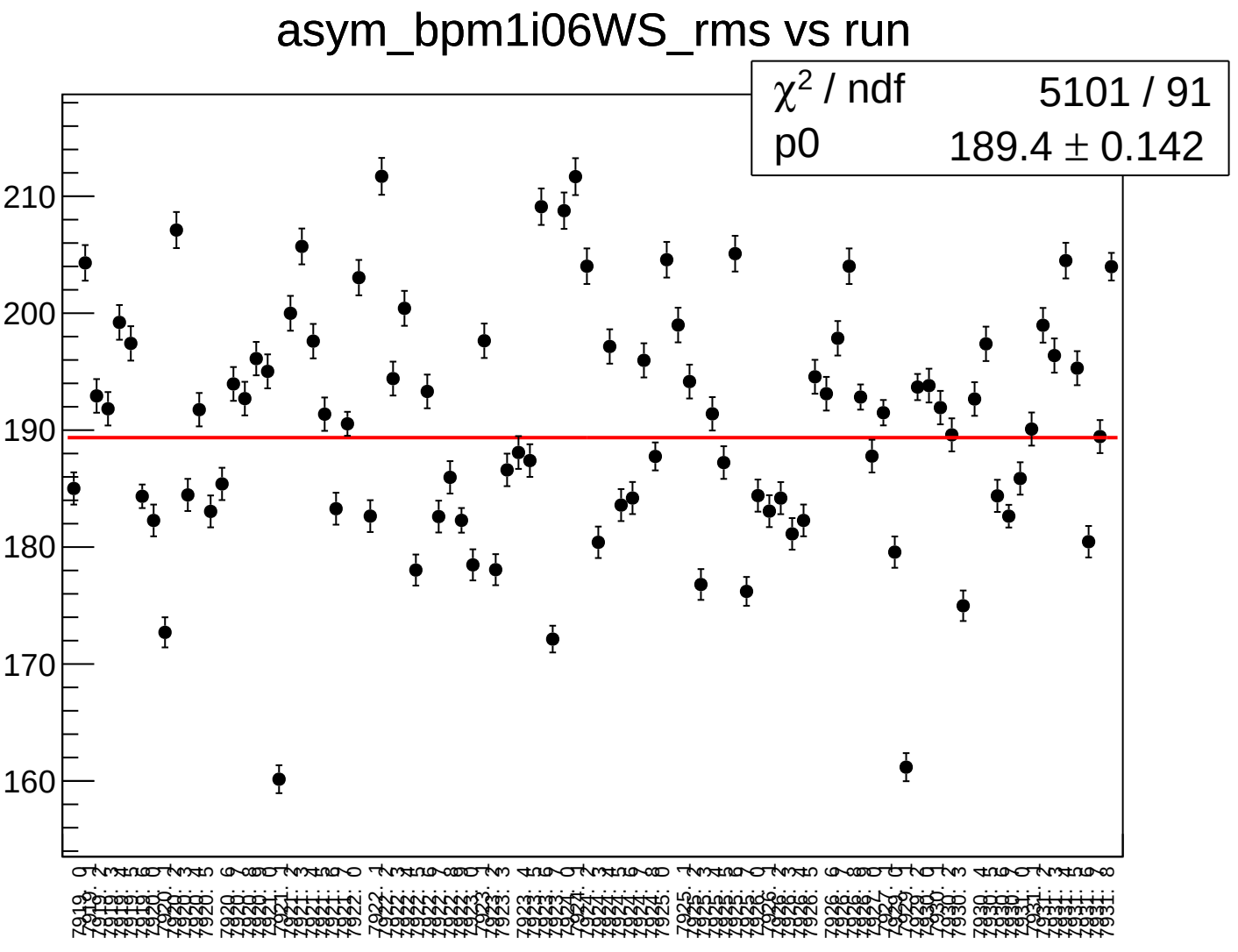

asym_bpm1i04WS_mean vs run
χ² / ndf 159.3 / 91
p0 1.492e+04 ± 155.3
22000
20000
18000
16000
14000
12000
10000
pull
Entries 92
Mean −15.8
Std Dev 0
3
2
1
0
−1
−2

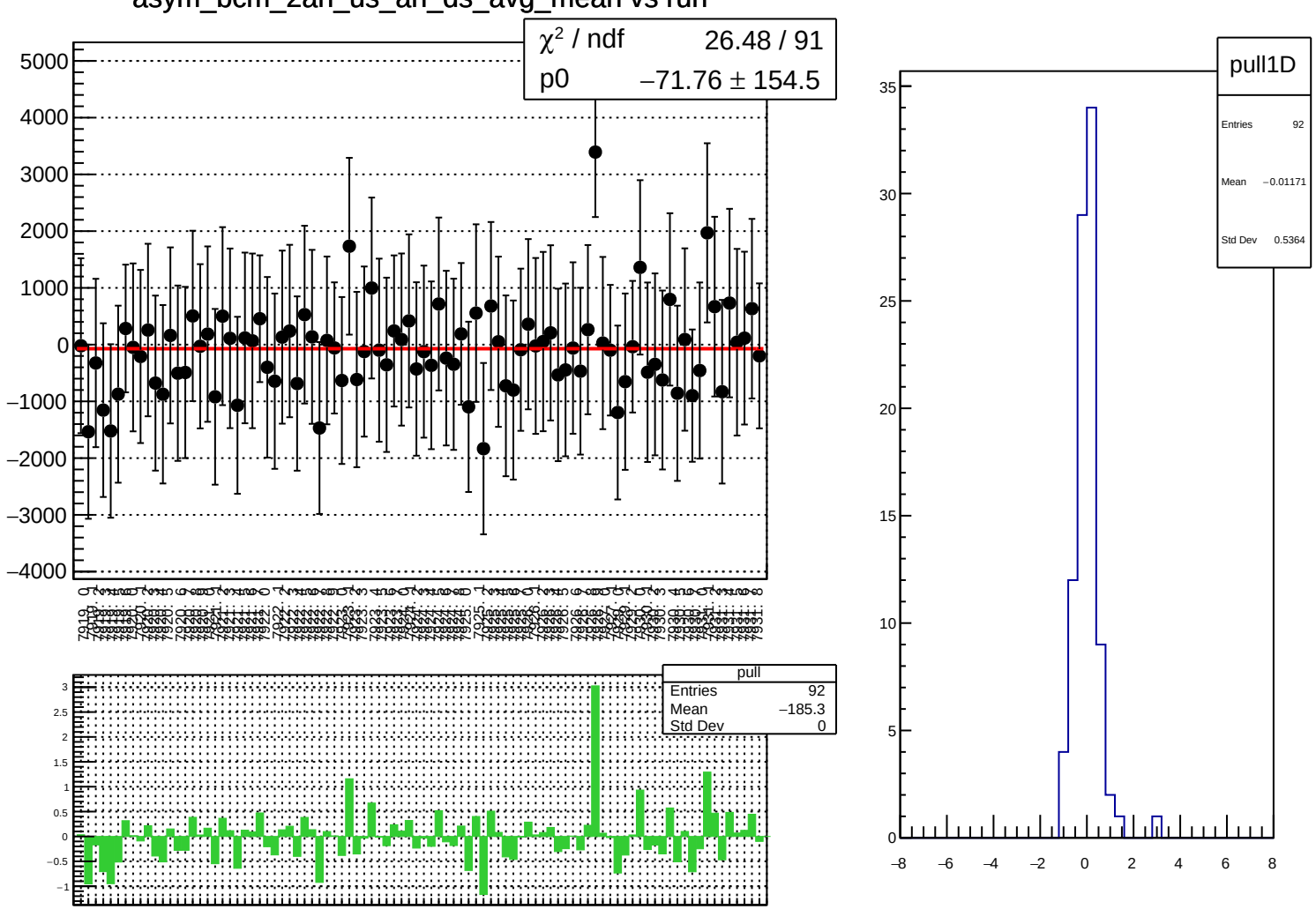

pull1D
Entries 92
Mean 0.01407
Std Dev 1.316
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

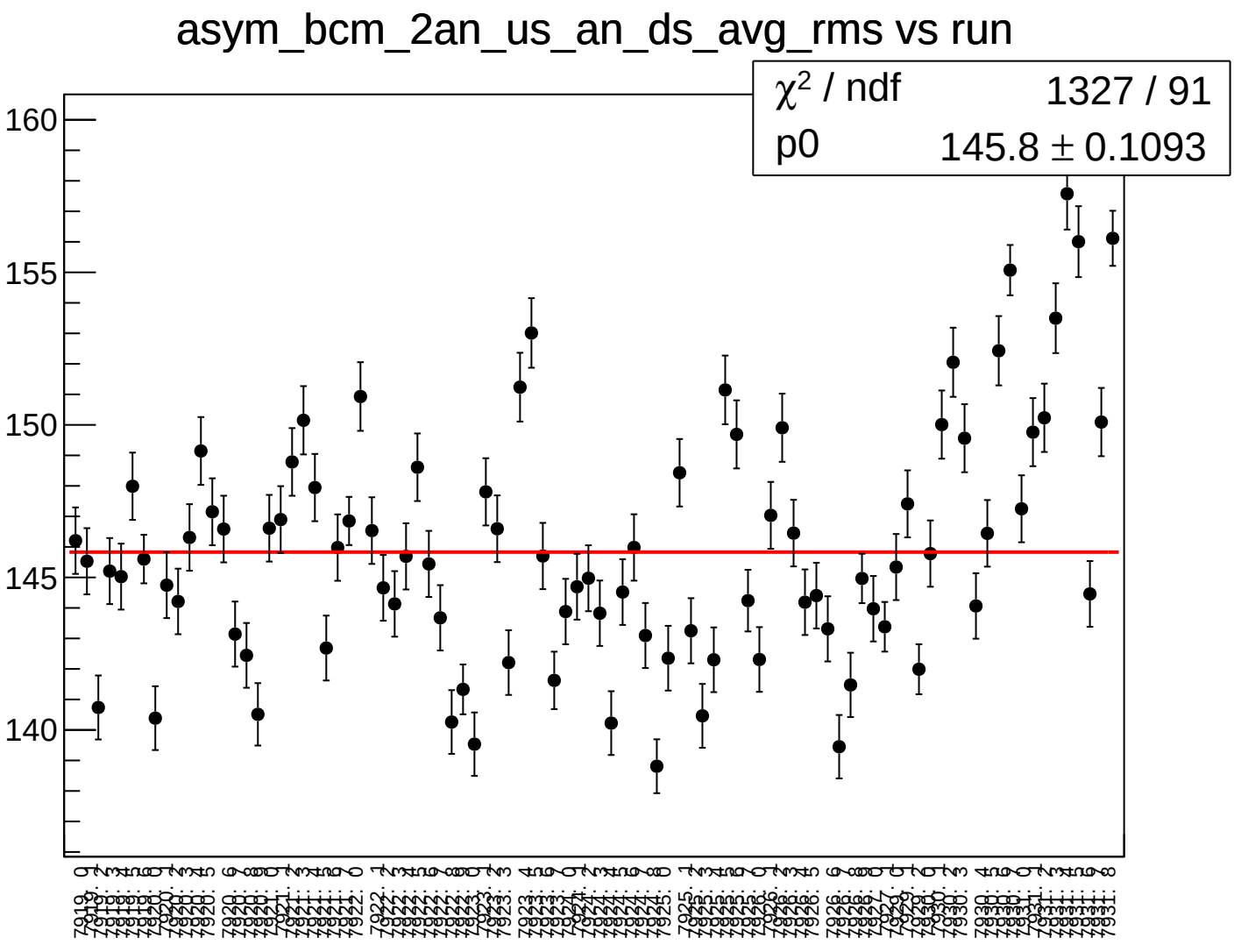

asym_bpm1i04WS_rms vs run
χ² / ndf 4257 / 91
p0 146.4 ± 0.1098
165
160
155
150
145
140
135
130
125

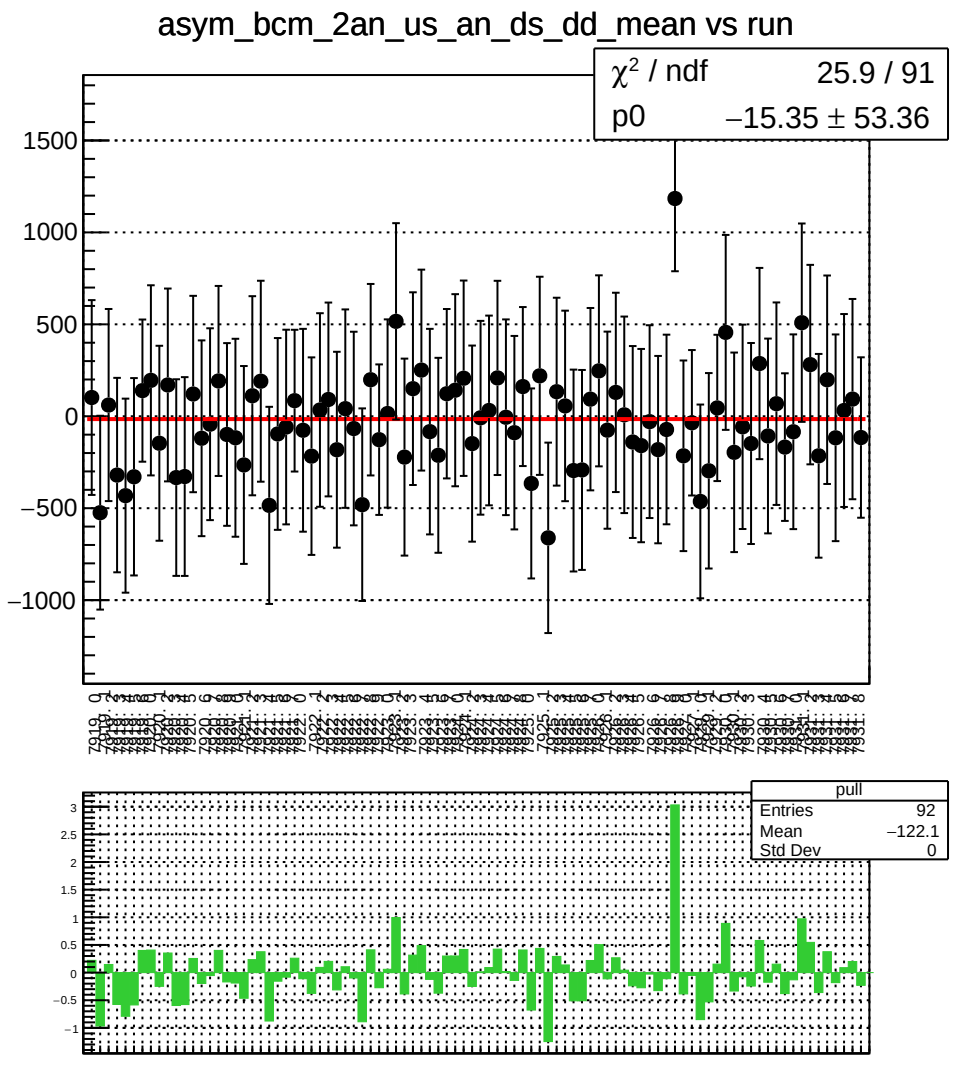

asym_bpm1i06WS_mean vs run
χ² / ndf 167.4 / 91
p0 1.819e+04 ± 200.8
pull
Entries 92
Mean −96.2
Std Dev 0

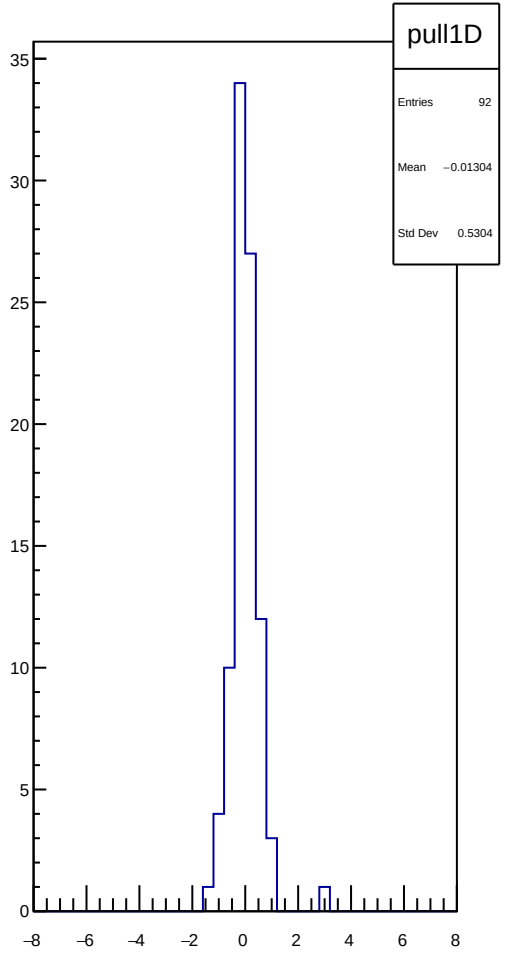

pull1D
Entries 92
Mean 0.01625
Std Dev 1.349

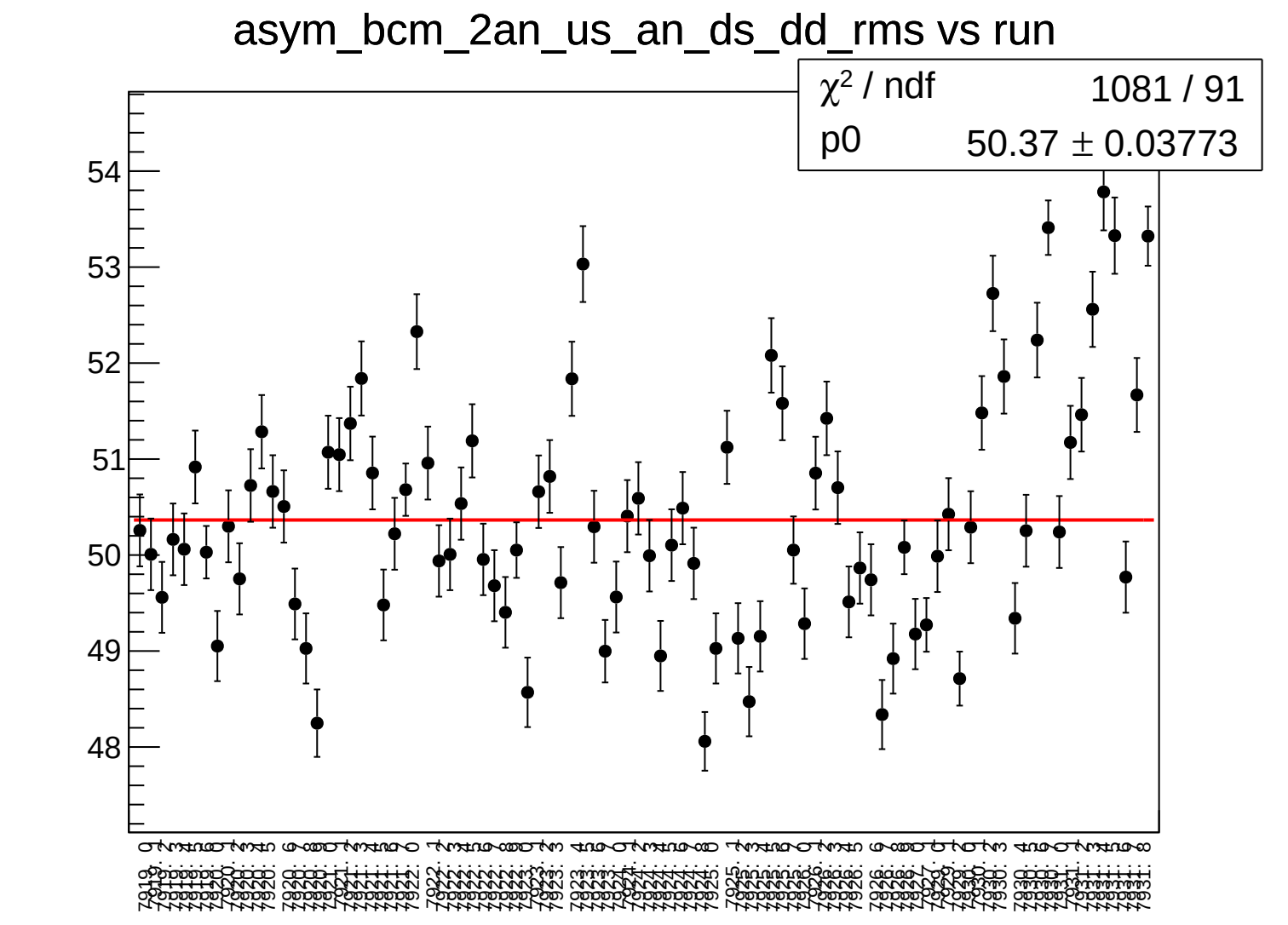

asym_bpm1i06WS_rms vs run
χ^2 / ndf 5101 / 91
p0 189.4 ± 0.142
210
200
190
180
170
160

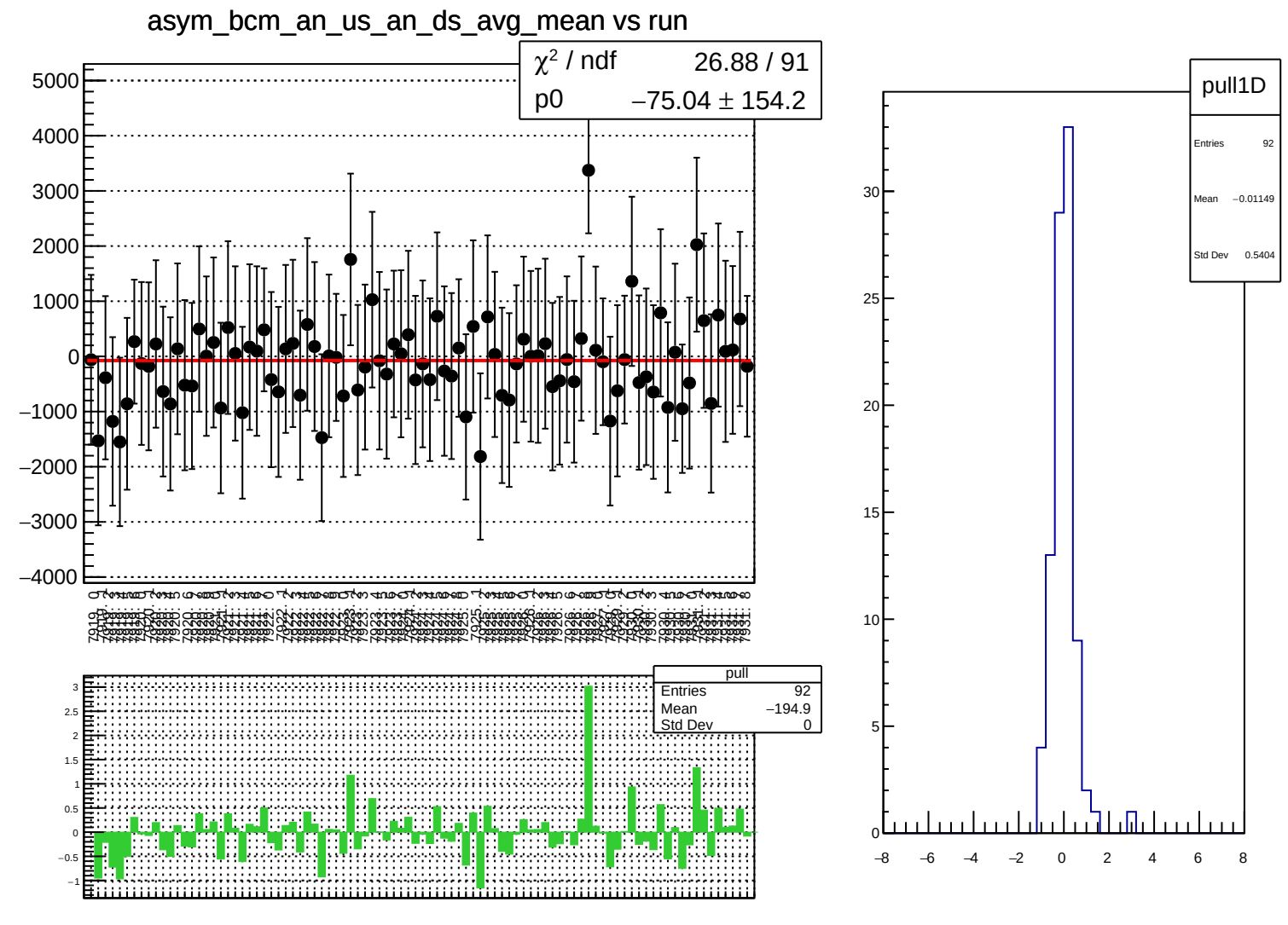

asym_bcm_2an_us_an_ds_avg_mean vs run
χ² / ndf 26.48 / 91
p0 −71.76 ± 154.5
pull
Entries 92
Mean −185.3
Std Dev 0
pull1D
Entries 92
Mean −0.01171
Std Dev 0.5364

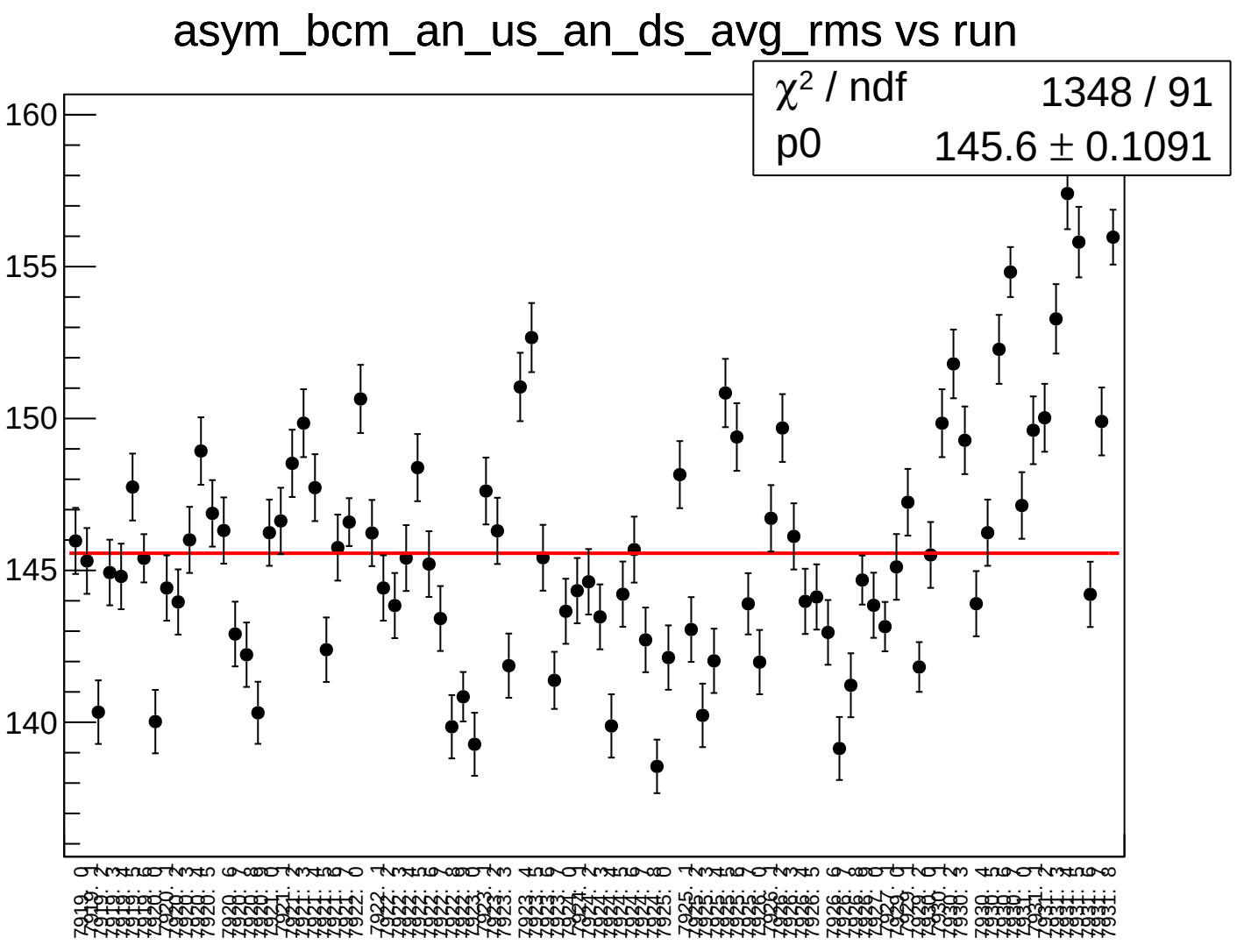

asym_bcm_2an_us_an_ds_avg_rms vs run
χ² / ndf 1327 / 91
p0 145.8 ± 0.1093
160
155
150
145
140

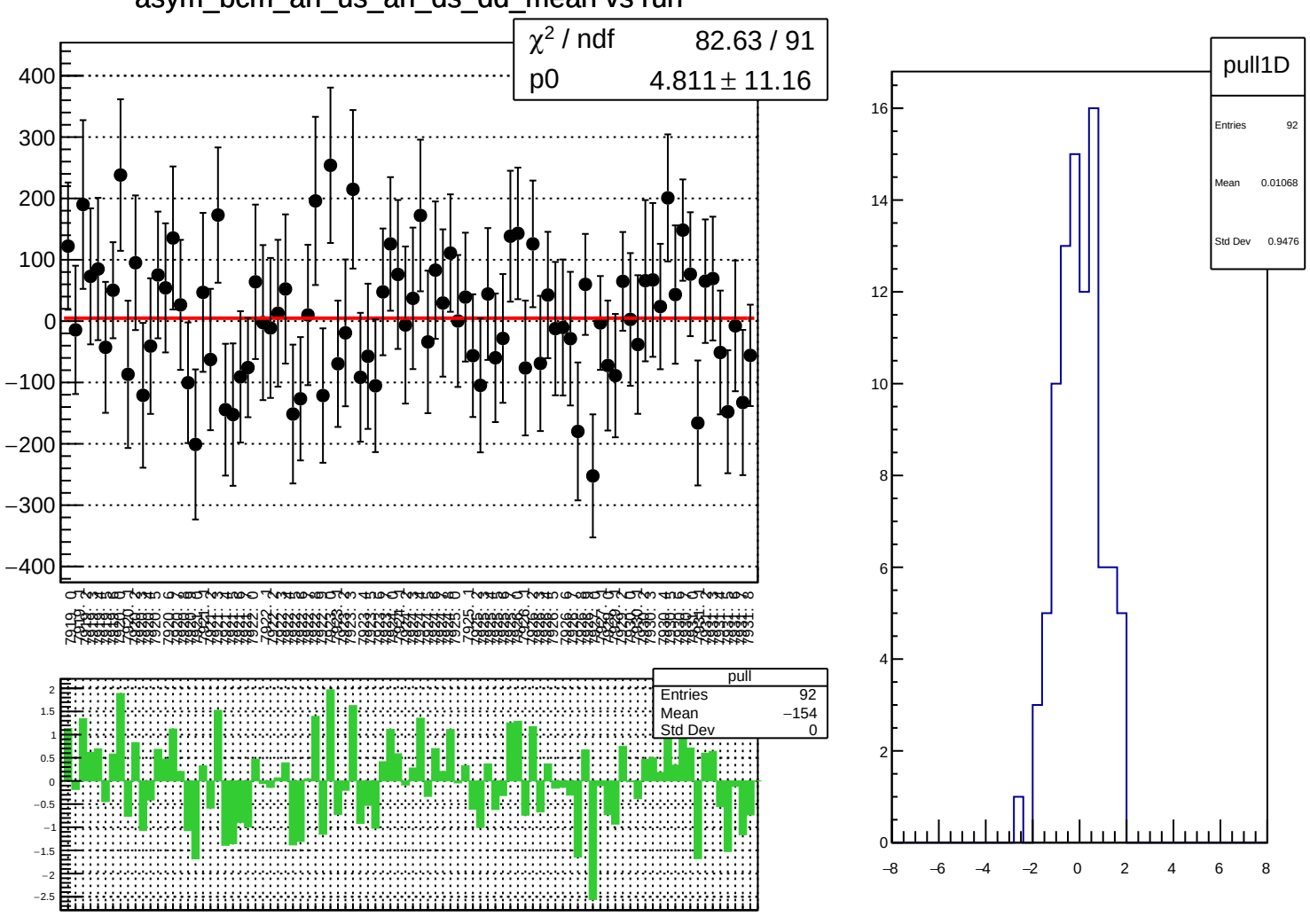

asym_bcm_2an_us_an_ds_dd_mean vs run
χ² / ndf 25.9 / 91
p0 −15.35 ± 53.36
1500
1000
500
0
−500
−1000
pull
Entries 92
Mean −122.1
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1

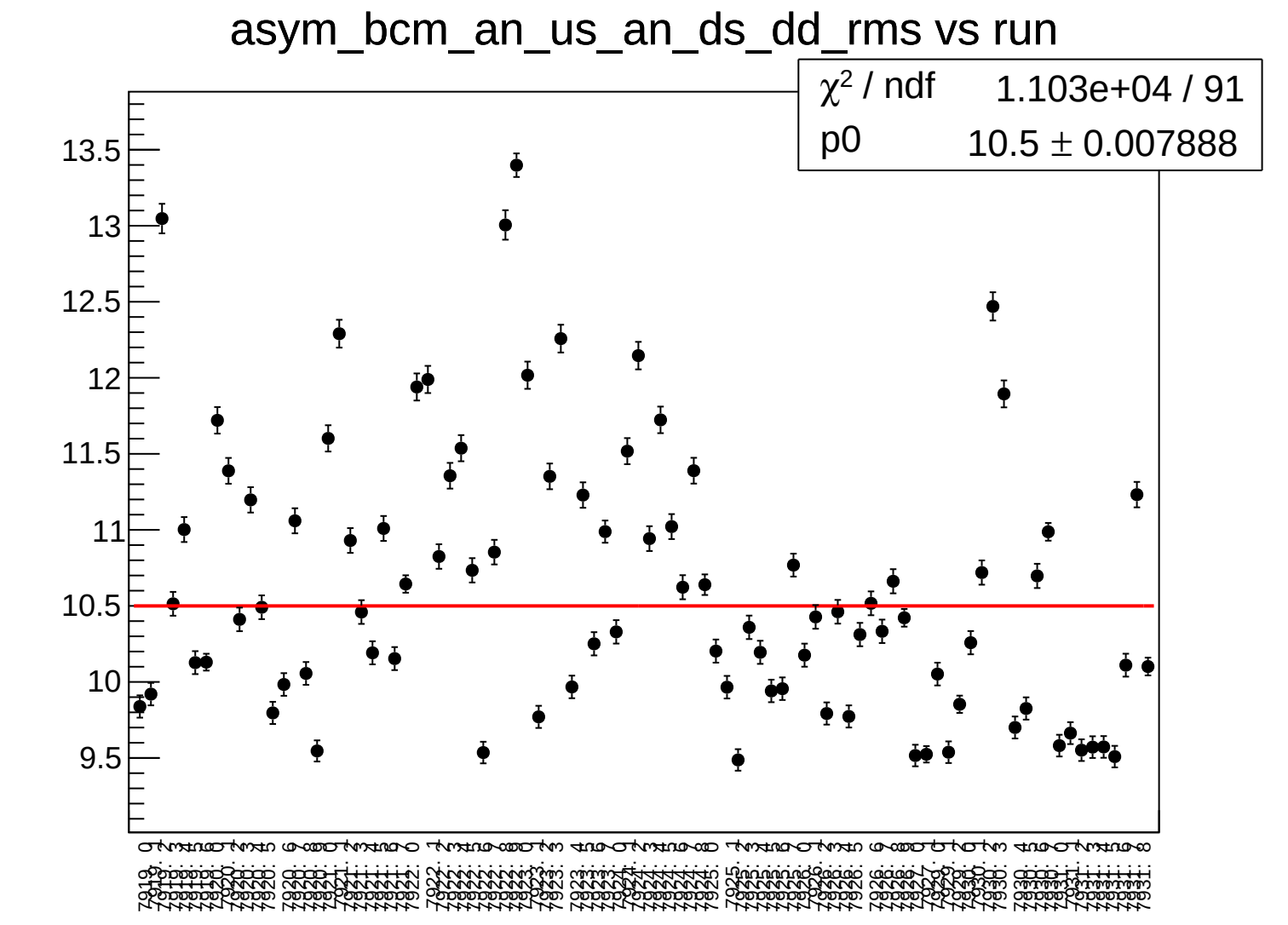

pull1D
Entries 92
Mean −0.01304
Std Dev 0.5304
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

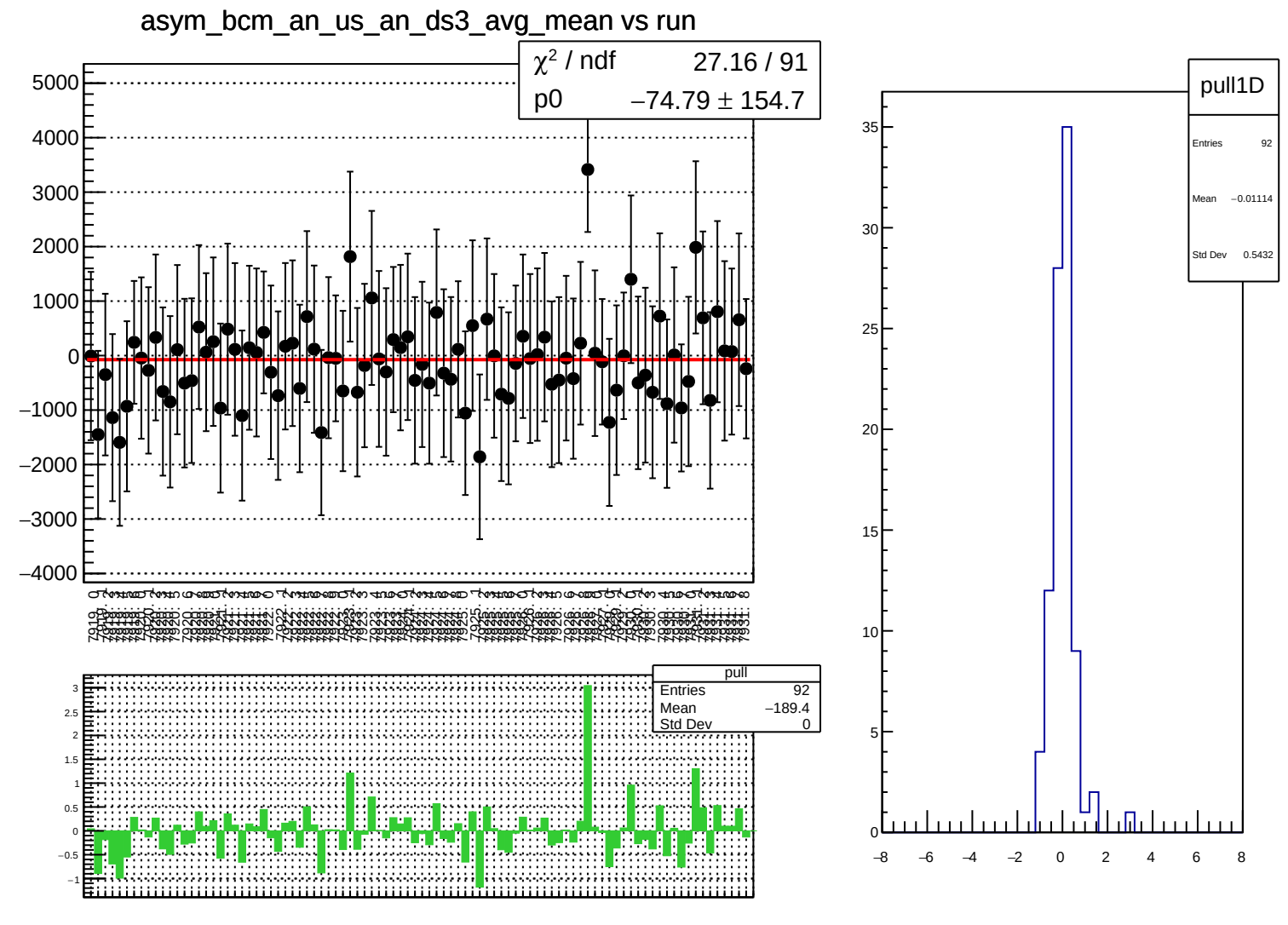

asym_bcm_2an_us_an_ds_dd_rms vs run
χ² / ndf 1081 / 91
p0 50.37 ± 0.03773
54
53
52
51
50
49
48

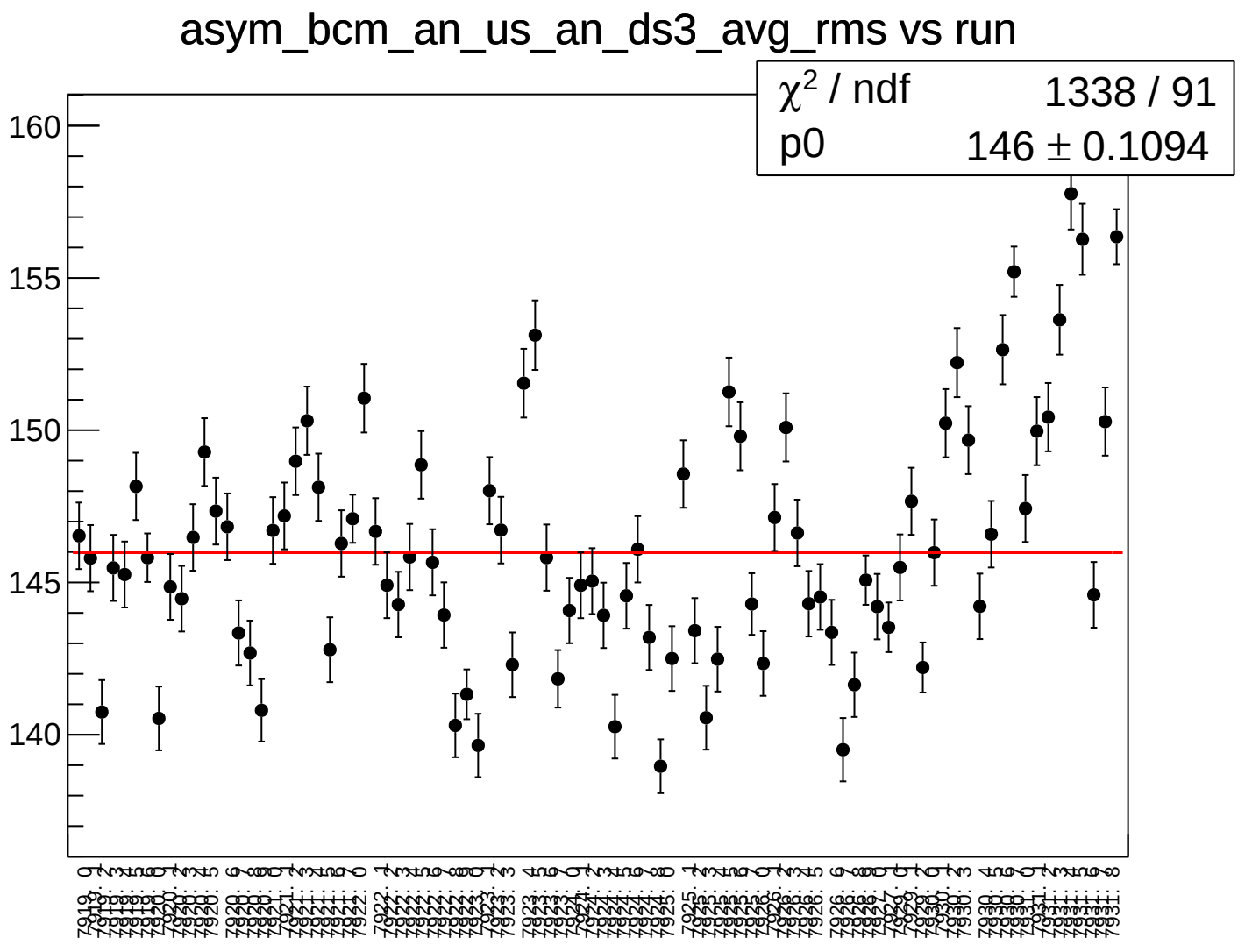

asym_bcm_an_us_an_ds_avg_mean vs run
χ² / ndf 26.88 / 91
p0 −75.04 ± 154.2
pull
Entries 92
Mean −194.9
Std Dev 0
pull1D
Entries 92
Mean −0.01149
Std Dev 0.5404

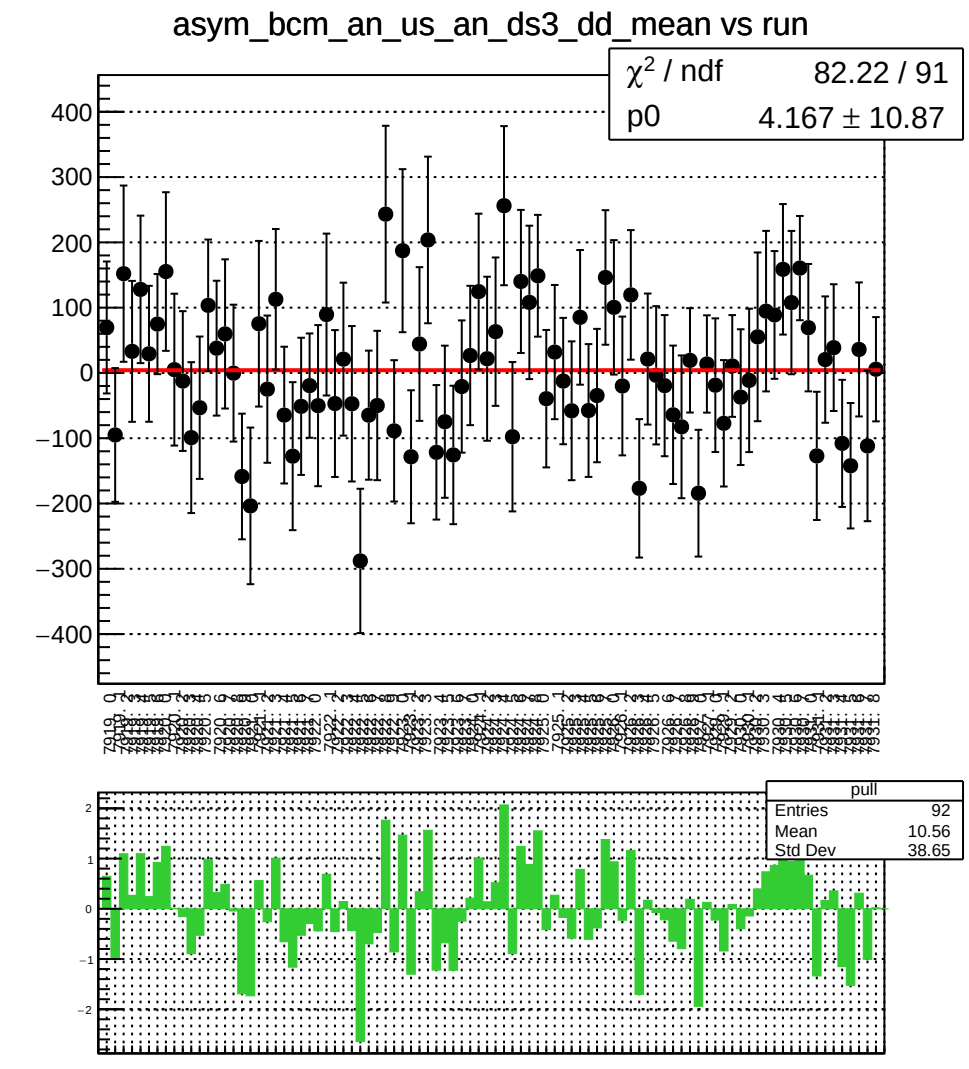

asym_bcm_an_us_an_ds_avg_rms vs run
χ² / ndf 1348 / 91
p0 145.6 ± 0.1091
160
155
150
145
140

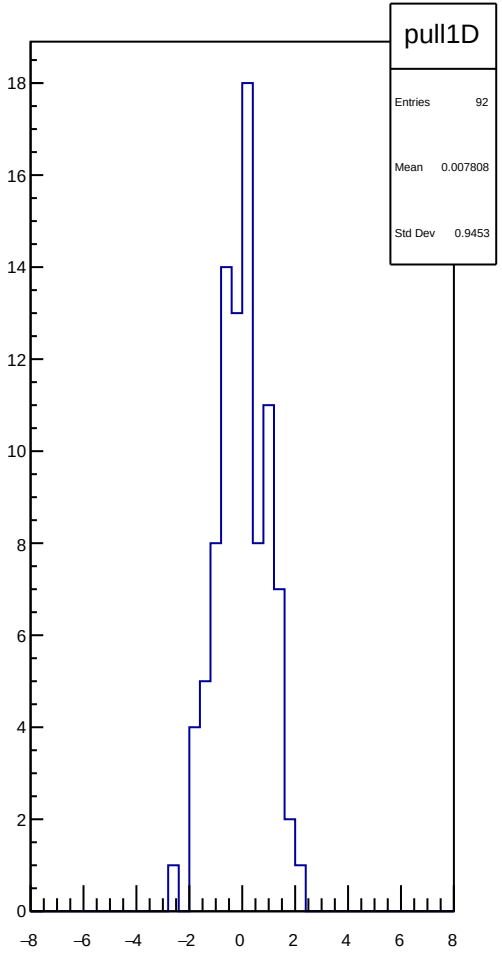

asym_bcm_an_us_an_ds_dd_mean vs run
χ² / ndf 82.63 / 91
p0 4.811 ± 11.16
pull
Entries 92
Mean −154
Std Dev 0
pull1D
Entries 92
Mean 0.01068
Std Dev 0.9476

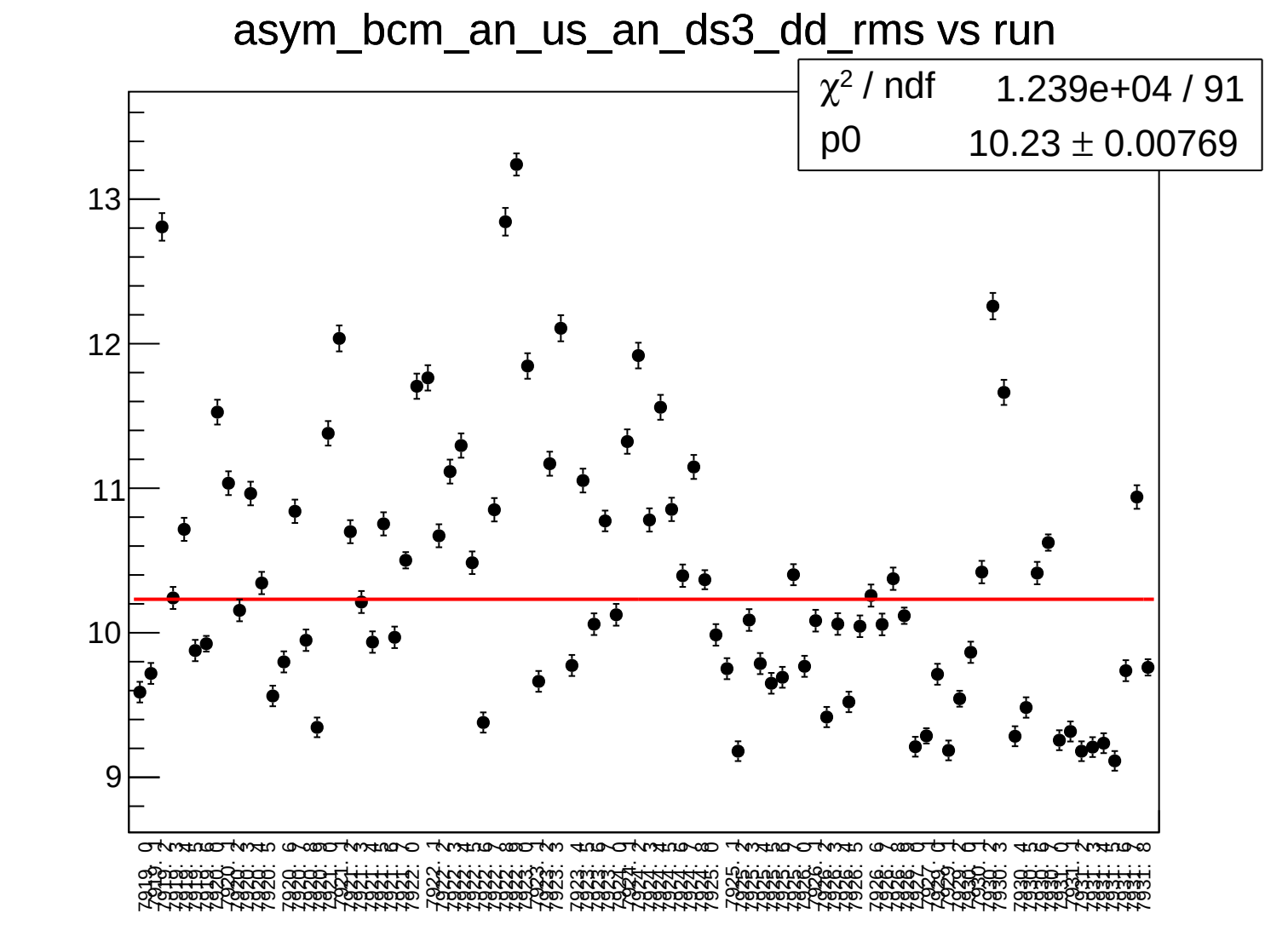

asym_bcm_an_us_an_ds_dd_rms vs run
χ² / ndf 1.103e+04 / 91
p0 10.5 ± 0.007888
13.5
13
12.5
12
11.5
11
10.5
10
9.5

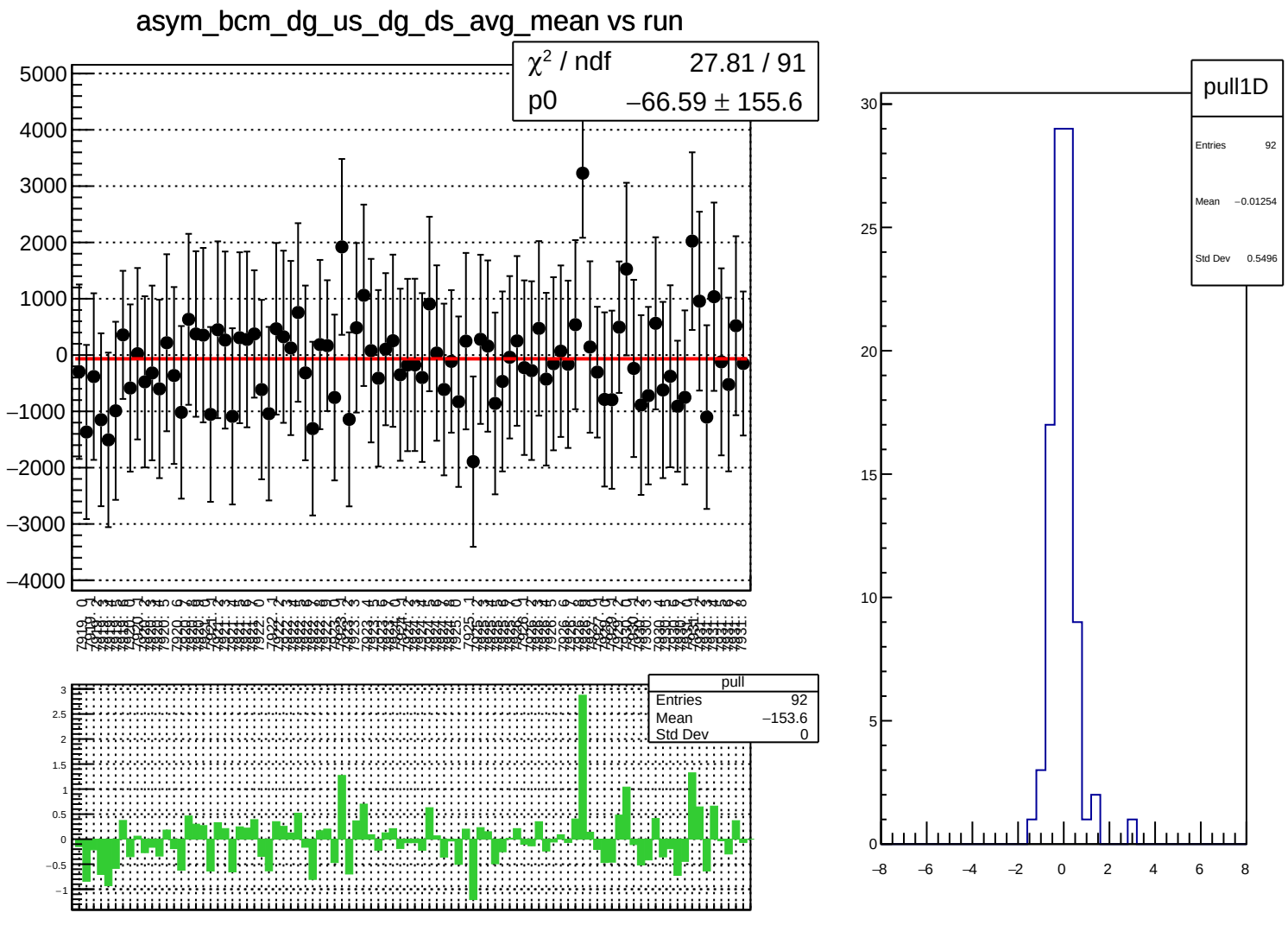

asym_bcm_an_us_an_ds3_avg_mean vs run
χ² / ndf 27.16 / 91
p0 −74.79 ± 154.7
pull
Entries 92
Mean −189.4
Std Dev 0
pull1D
Entries 92
Mean −0.01114
Std Dev 0.5432

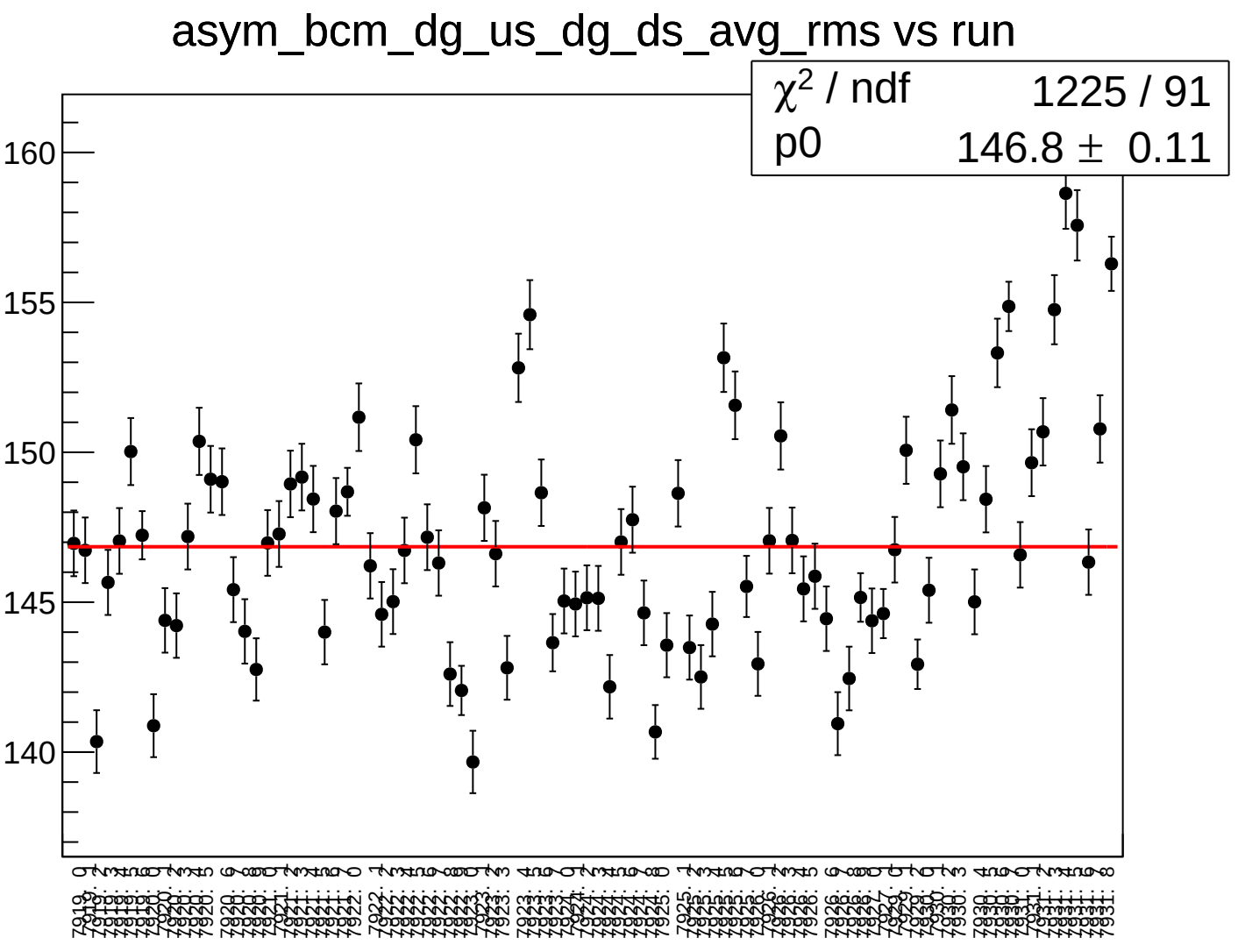

asym_bcm_an_us_an_ds3_avg_rms vs run
χ² / ndf 1338 / 91
p0 146 ± 0.1094
160
155
150
145
140

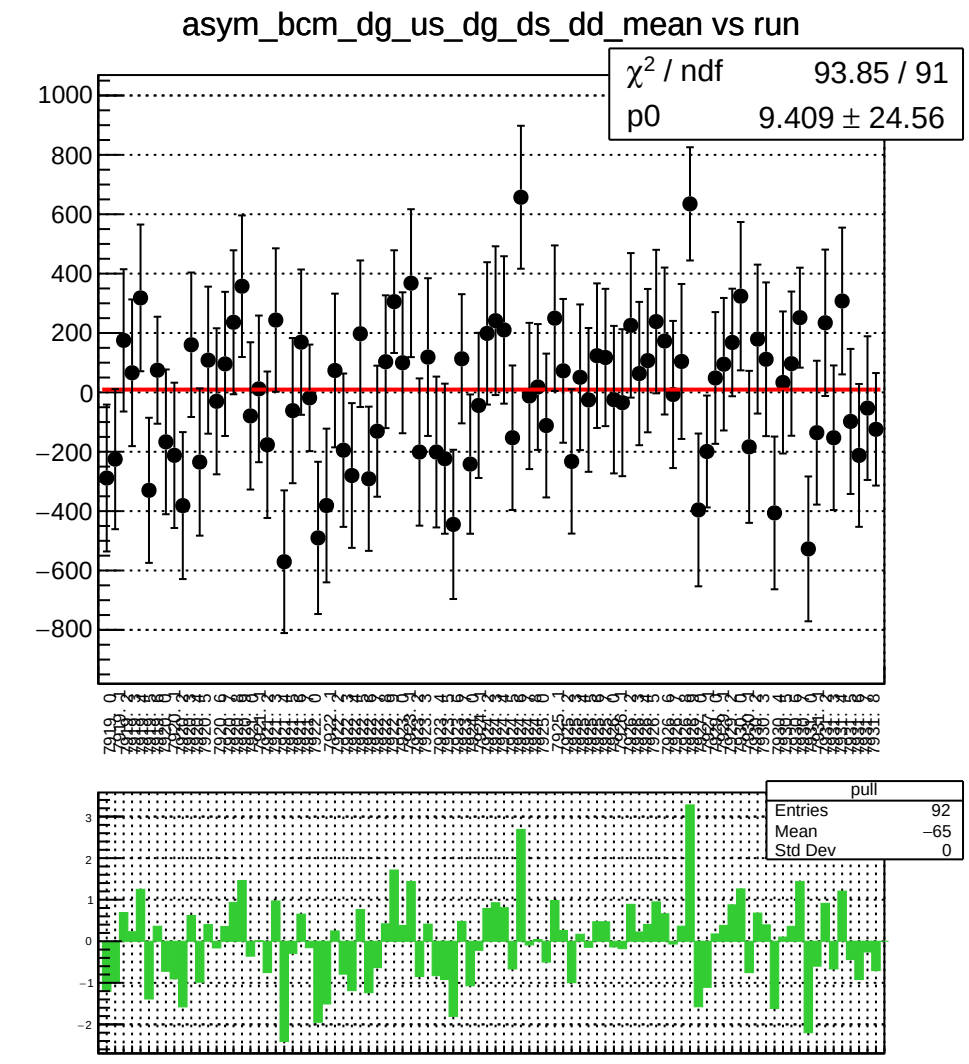

asym_bcm_an_us_an_ds3_dd_mean vs run
χ² / ndf 82.22 / 91
p0 4.167 ± 10.87
pull
Entries 92
Mean 10.56
Std Dev 38.65

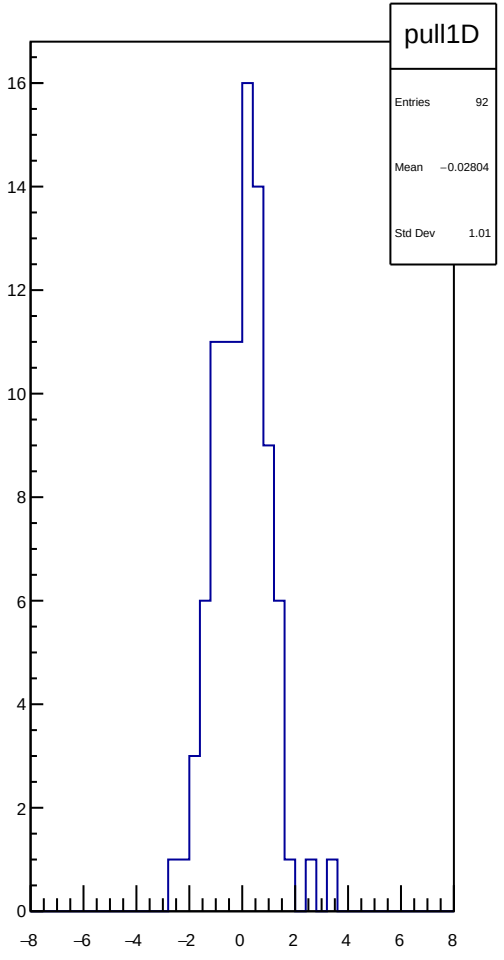

pull1D
Entries 92
Mean 0.007808
Std Dev 0.9453

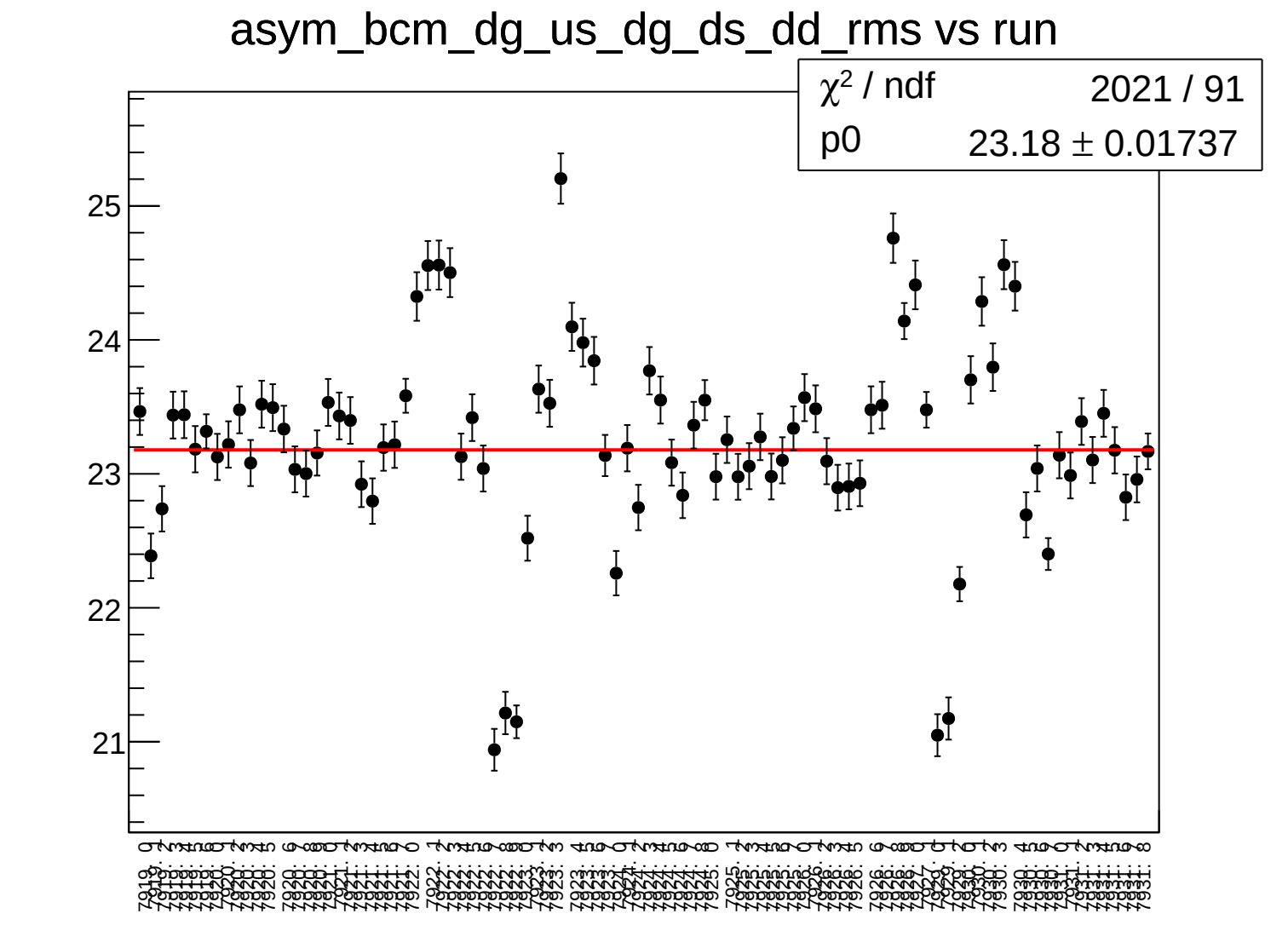

asym_bcm_an_us_an_ds3_dd_rms vs run
χ² / ndf 1.239e+04 / 91
p0 10.23 ± 0.00769
13
12
11
10
9

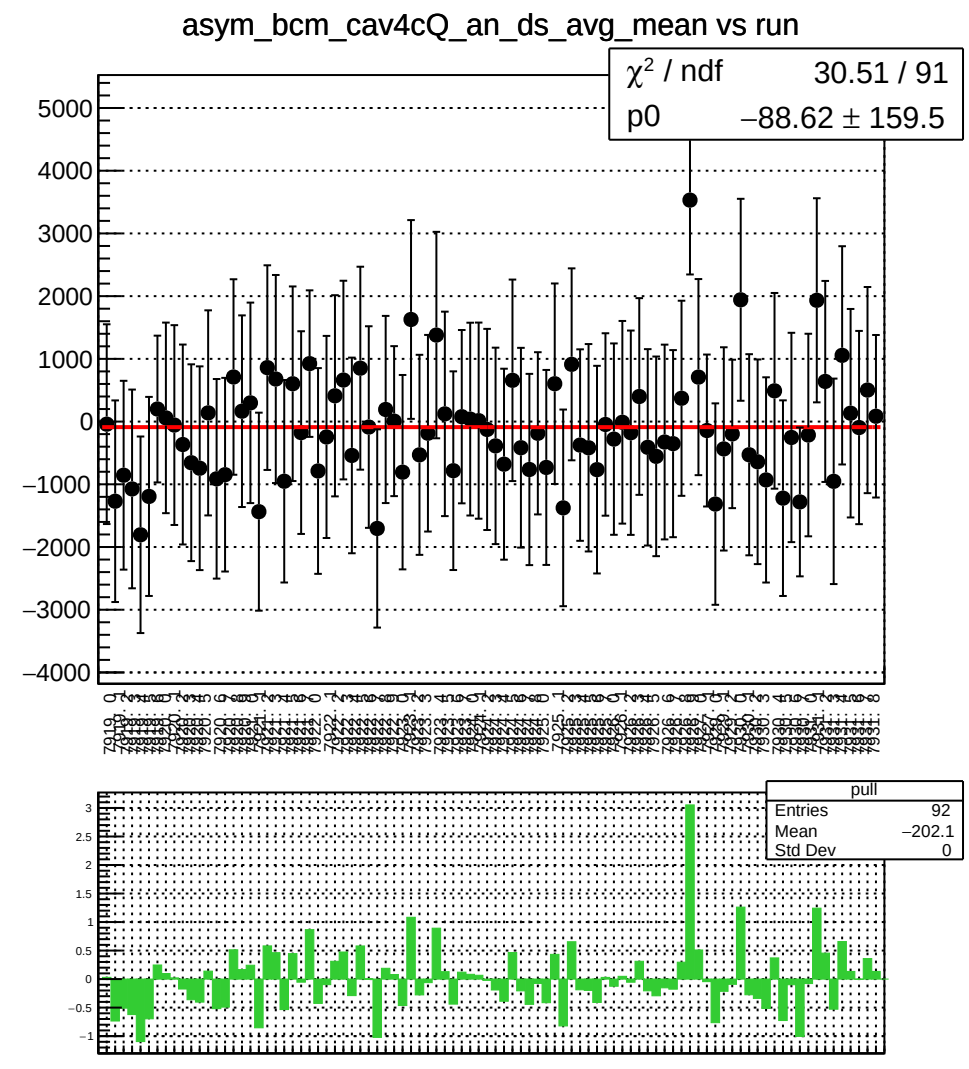

asym_bcm_dg_us_dg_ds_avg_mean vs run
χ² / ndf 27.81 / 91
p0 −66.59 ± 155.6
pull
Entries 92
Mean −153.6
Std Dev 0
pull1D
Entries 92
Mean −0.01254
Std Dev 0.5496

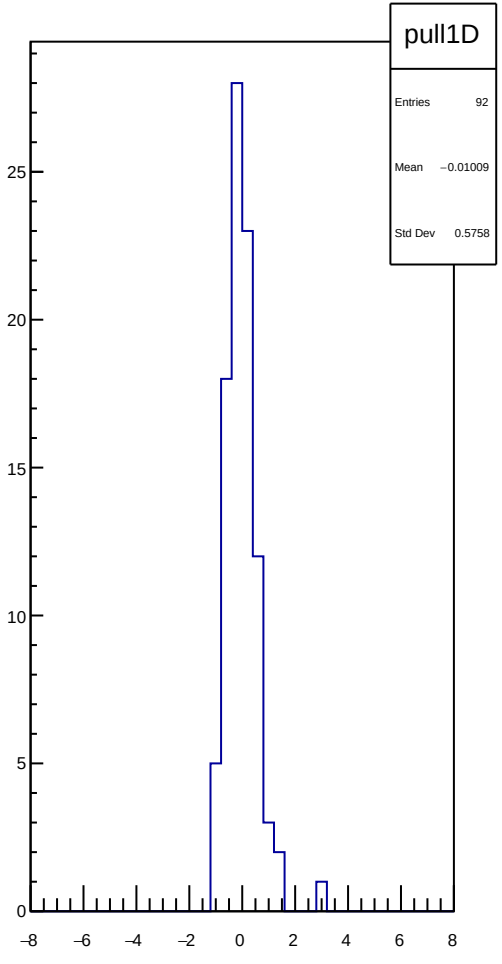

asym_bcm_dg_us_dg_ds_avg_rms vs run
χ² / ndf 1225 / 91
p0 146.8 ± 0.11
160
155
150
145
140

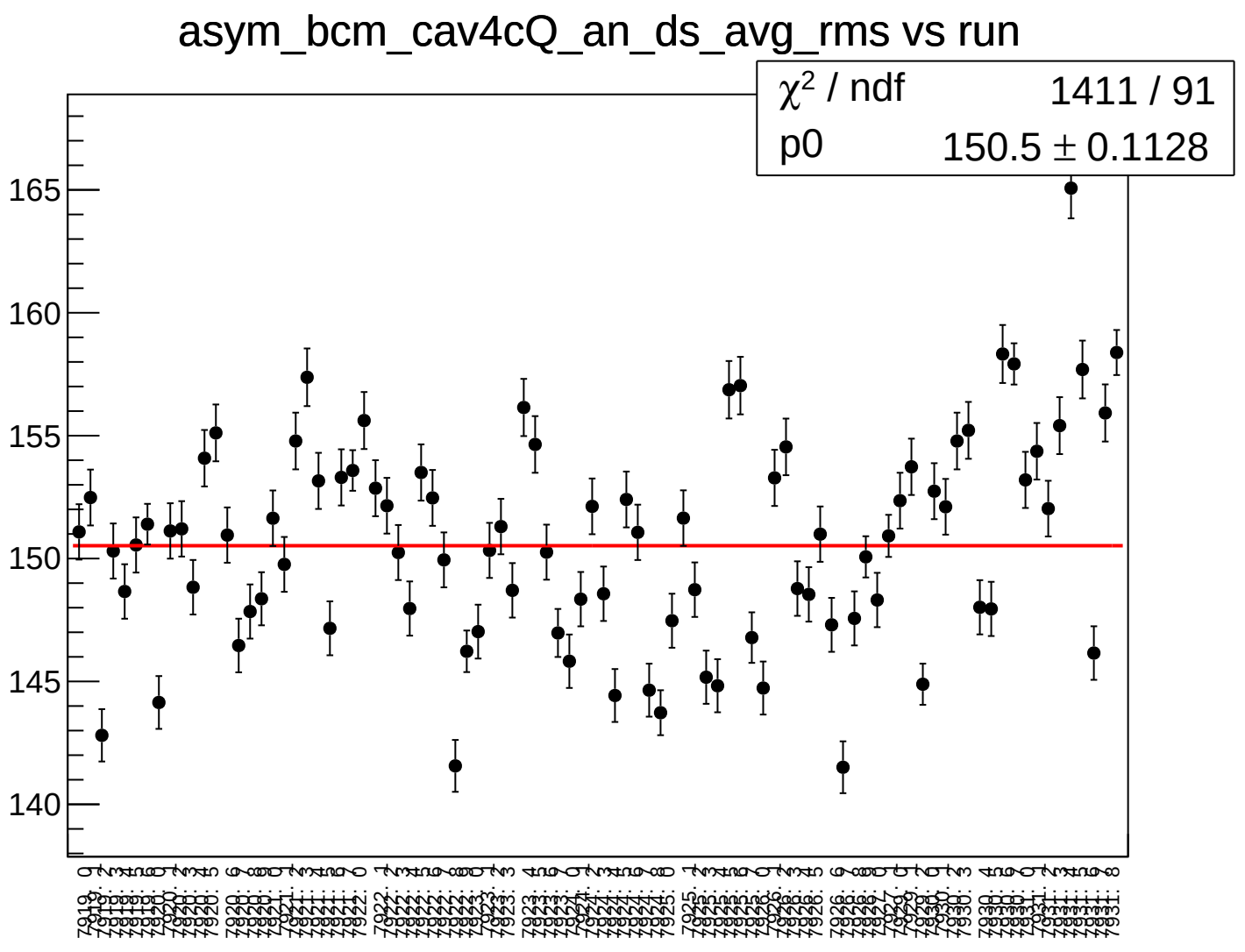

asym_bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 93.85 / 91
p0 9.409 ± 24.56
pull
Entries 92
Mean −65
Std Dev 0

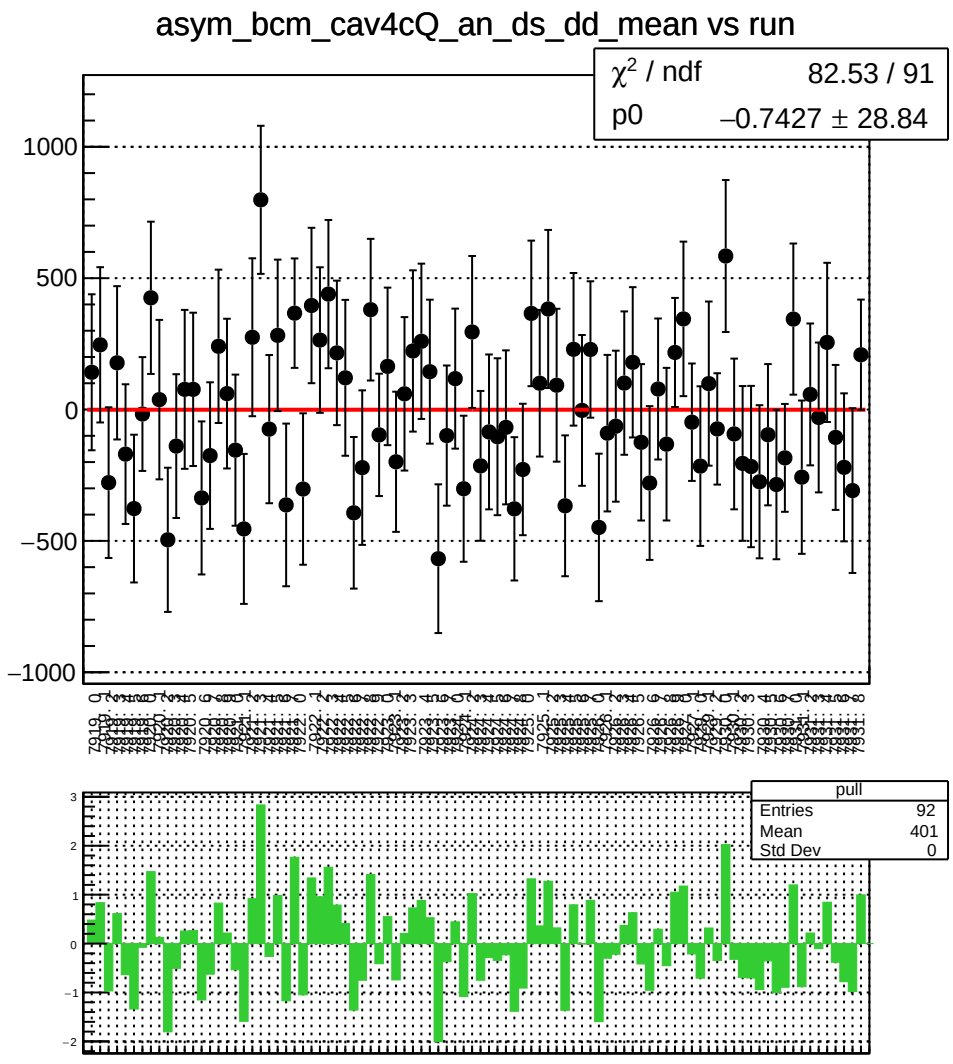

pull1D
Entries 92
Mean −0.02804
Std Dev 1.01

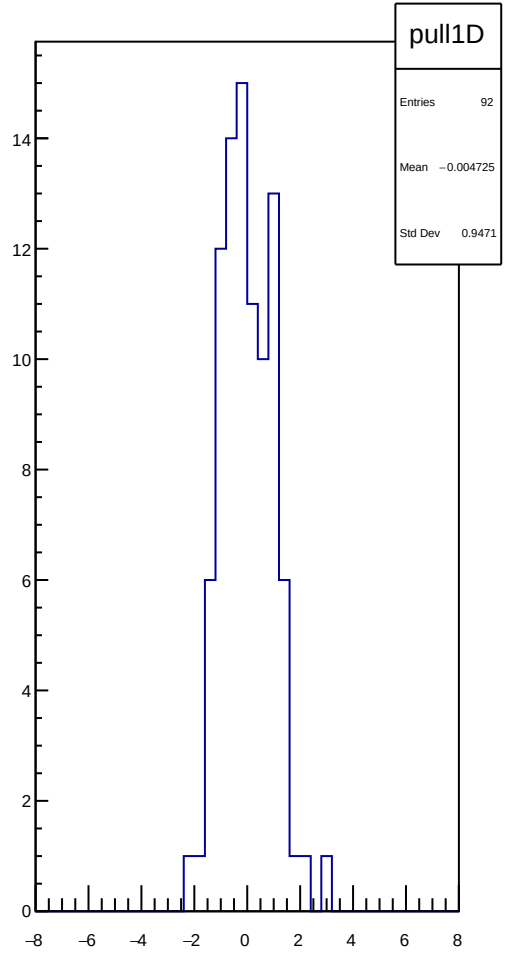

asym_bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 2021 / 91
p0 23.18 ± 0.01737
25
24
23
22
21

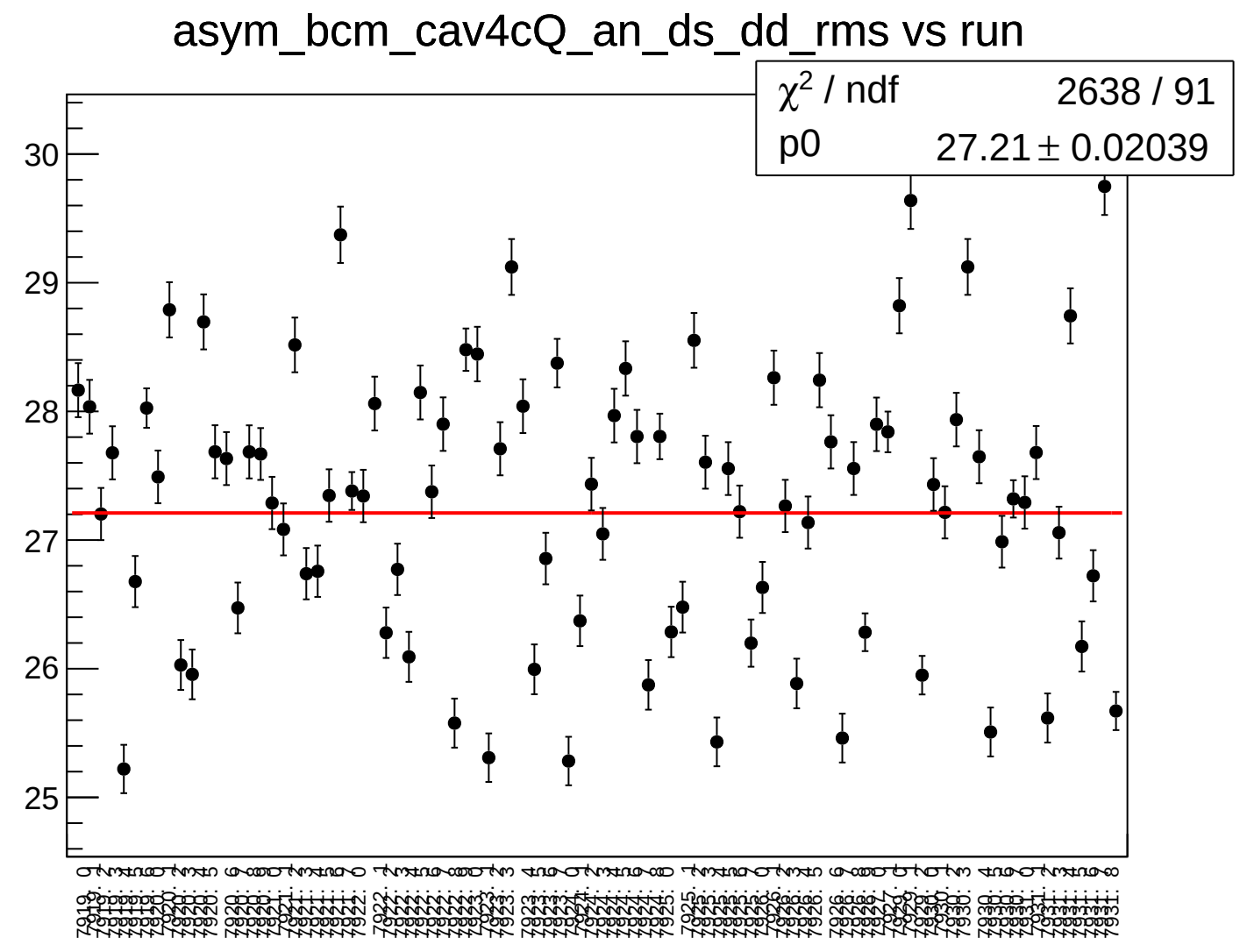

asym_bcm_cav4cQ_an_ds_avg_mean vs run
χ² / ndf 30.51 / 91
p0 −88.62 ± 159.5
pull
Entries 92
Mean −202.1
Std Dev 0

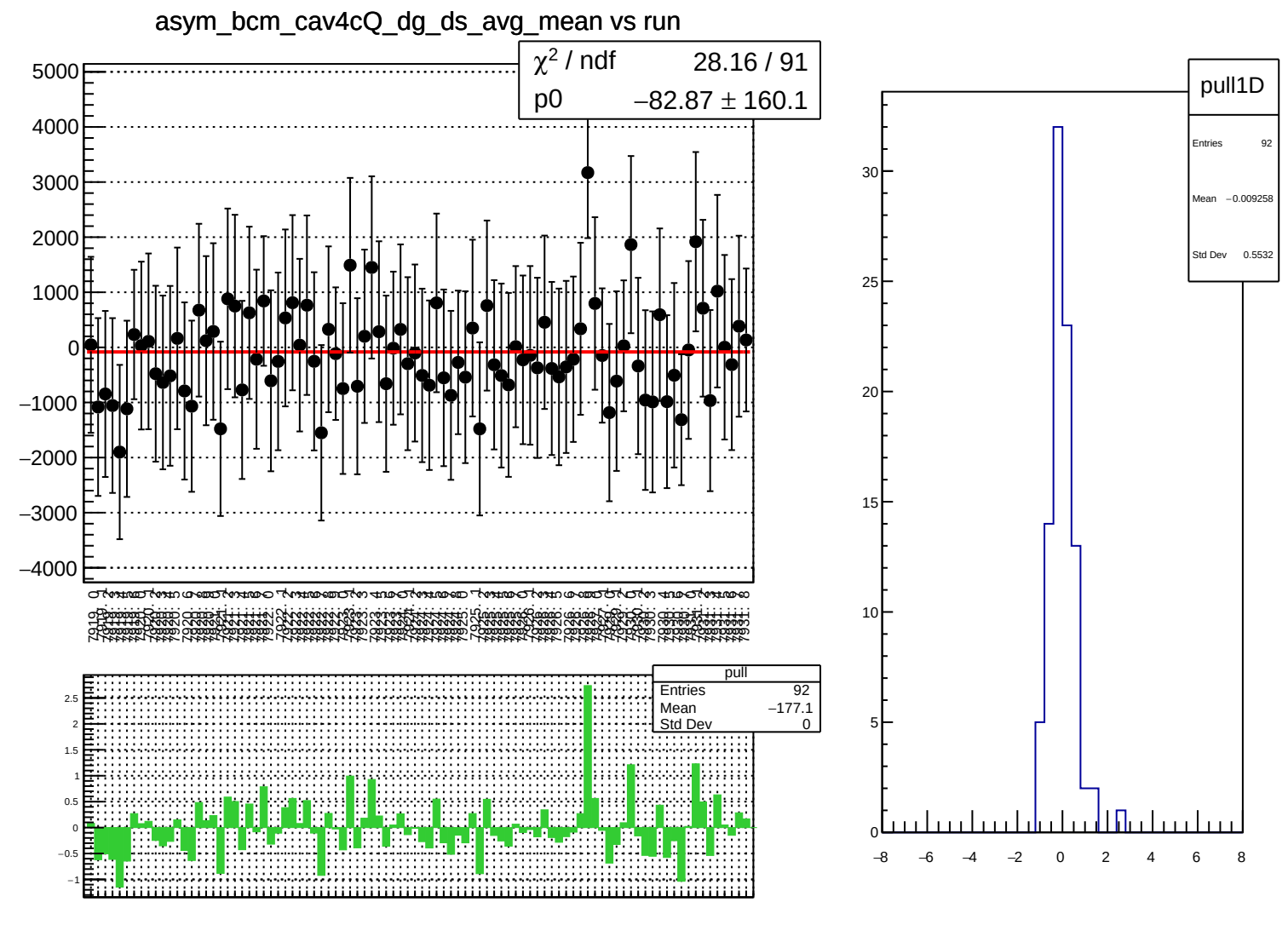

pull1D
Entries 92
Mean −0.01009
Std Dev 0.5758

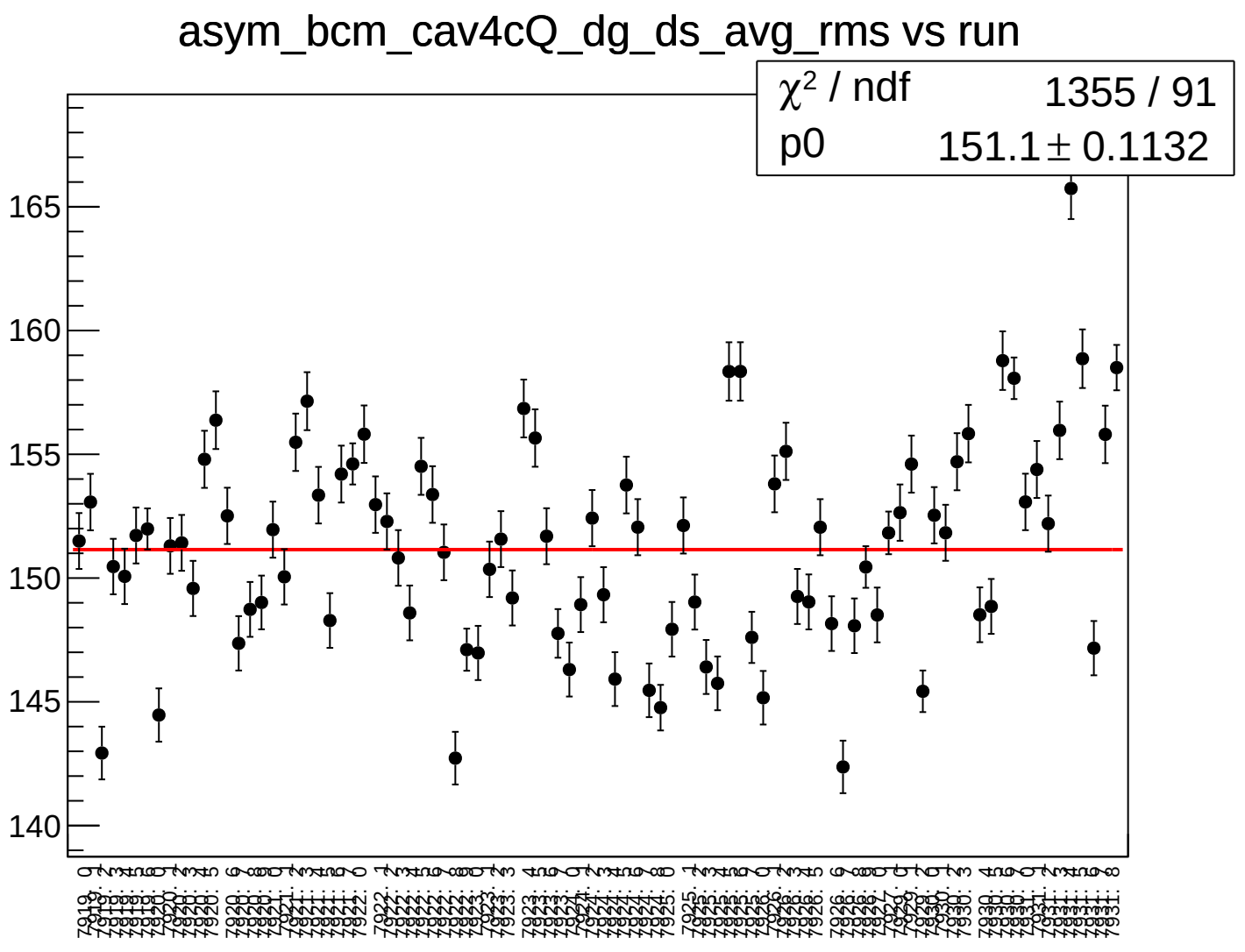

asym_bcm_cav4cQ_an_ds_avg_rms vs run
χ² / ndf 1411 / 91
p0 150.5 ± 0.1128
165
160
155
150
145
140

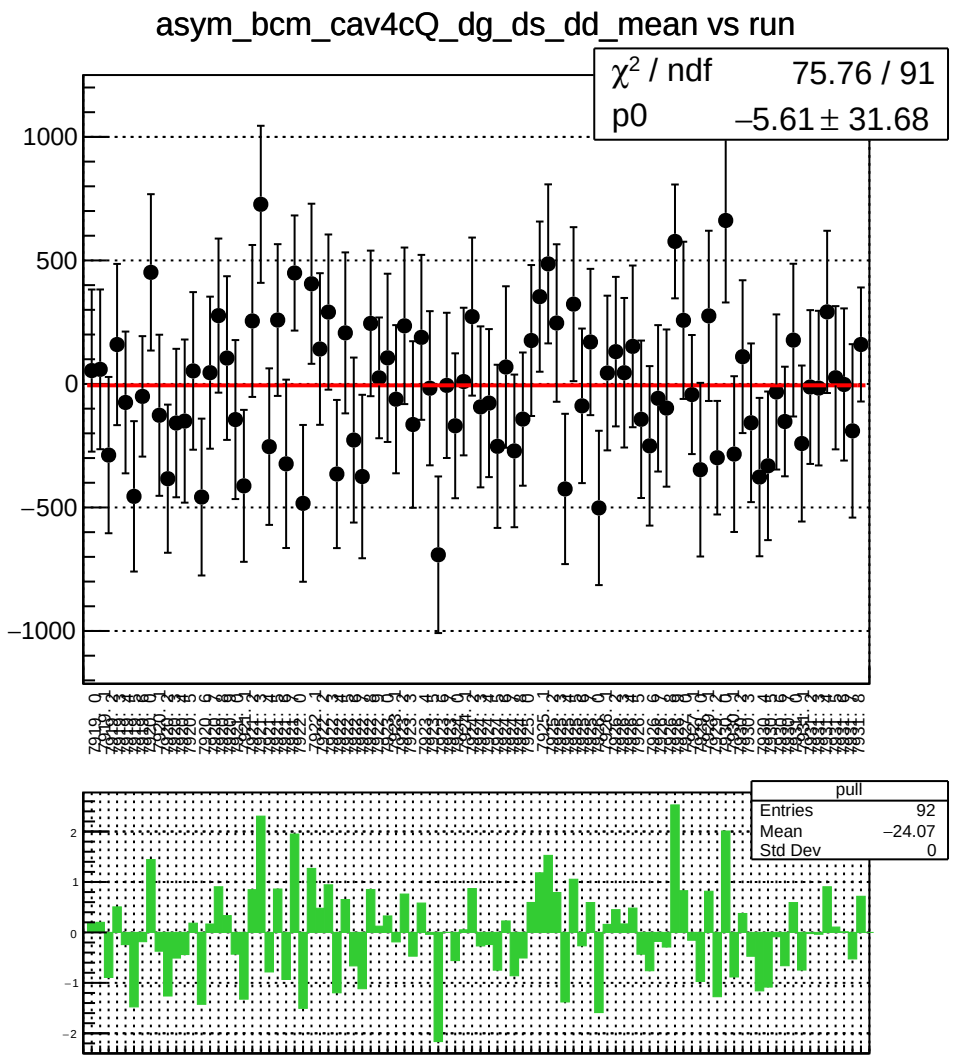

asym_bcm_cav4cQ_an_ds_dd_mean vs run
χ² / ndf 82.53 / 91
p0 −0.7427 ± 28.84
1000
500
0
−500
−1000
pull
Entries 92
Mean 401
Std Dev 0
3
2
1
0
−1
−2

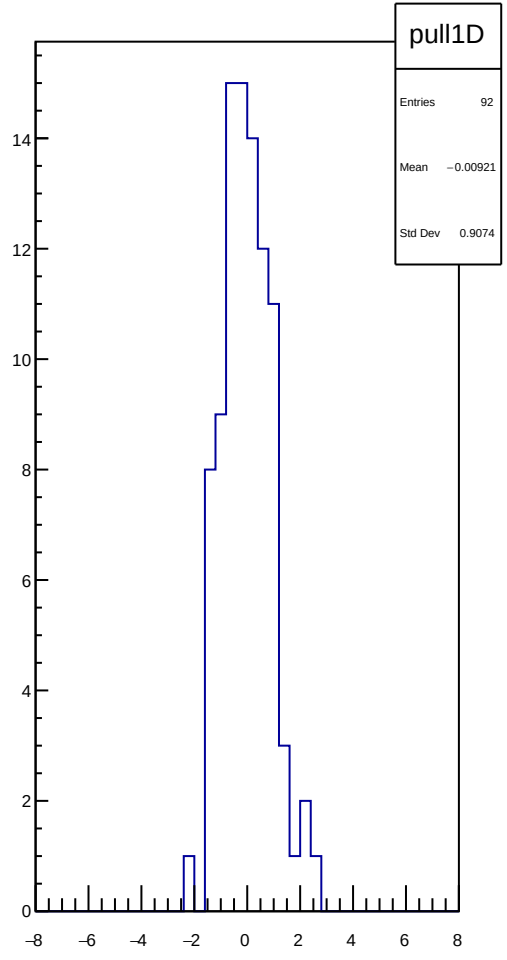

pull1D
Entries 92
Mean −0.004725
Std Dev 0.9471
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

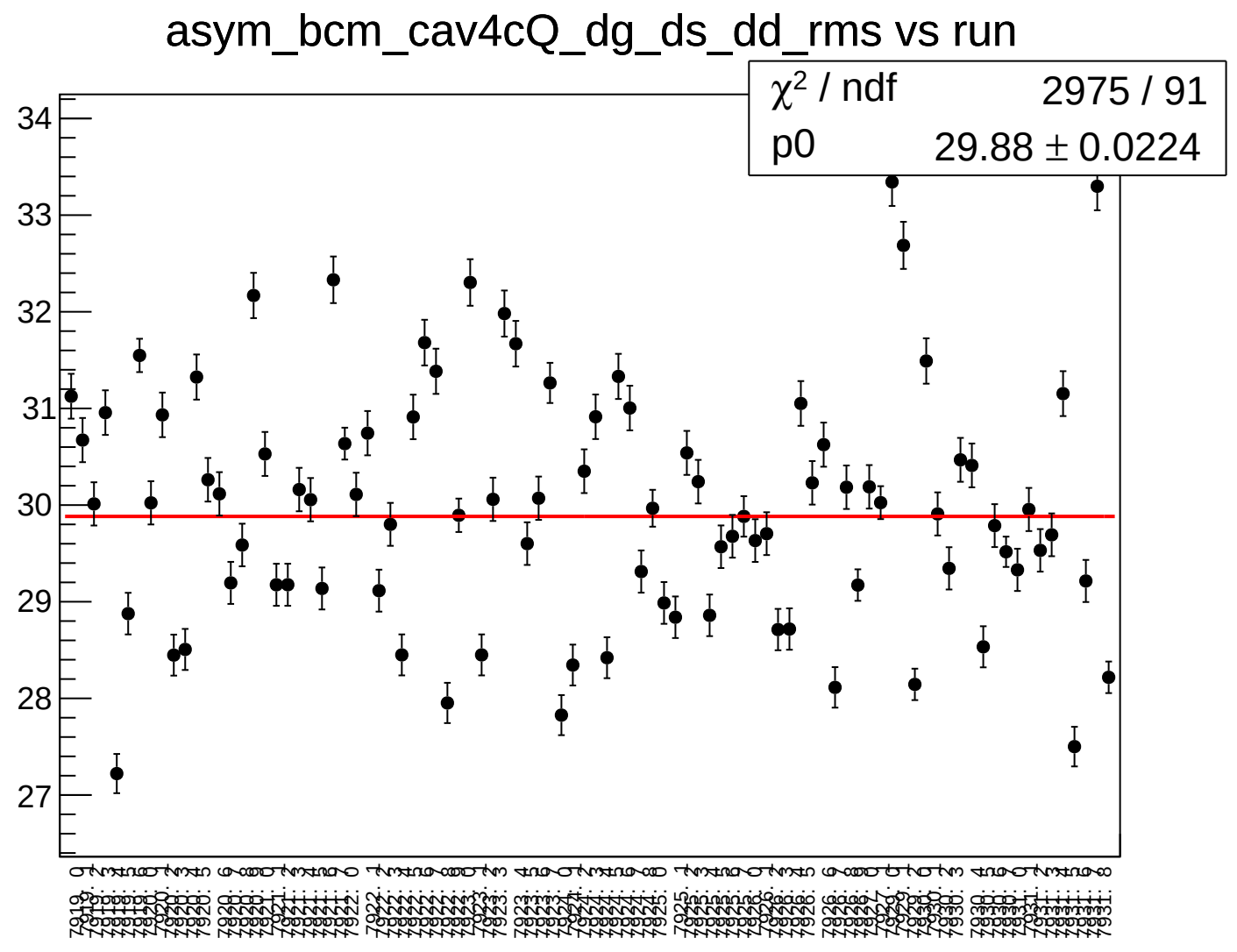

asym_bcm_cav4cQ_an_ds_dd_rms vs run
χ² / ndf 2638 / 91
p0 27.21 ± 0.02039
30
29
28
27
26
25

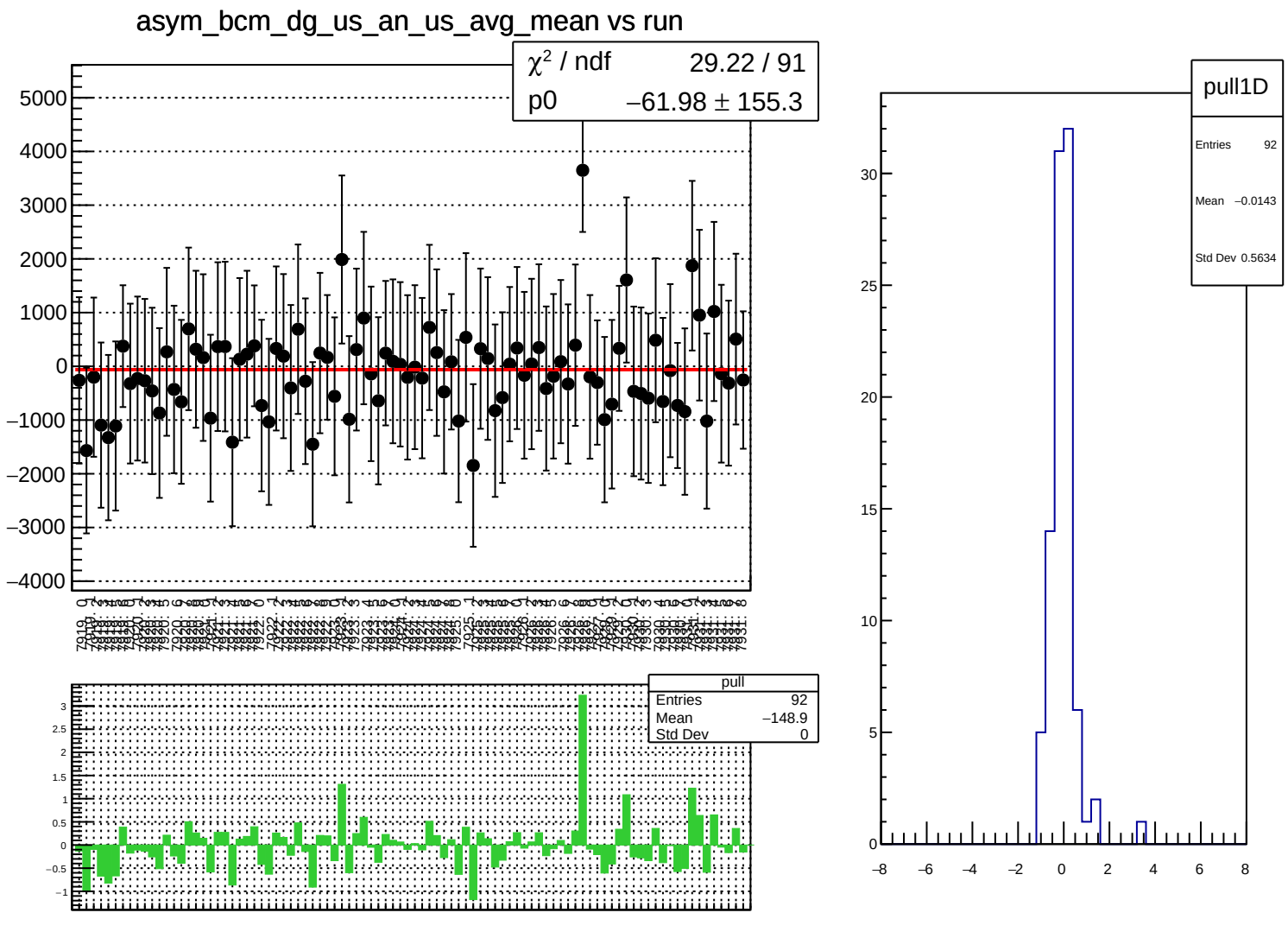

asym_bcm_cav4cQ_dg_ds_avg_mean vs run
χ² / ndf 28.16 / 91
p0 −82.87 ± 160.1
pull
Entries 92
Mean −177.1
Std Dev 0
pull1D
Entries 92
Mean −0.009258
Std Dev 0.5532

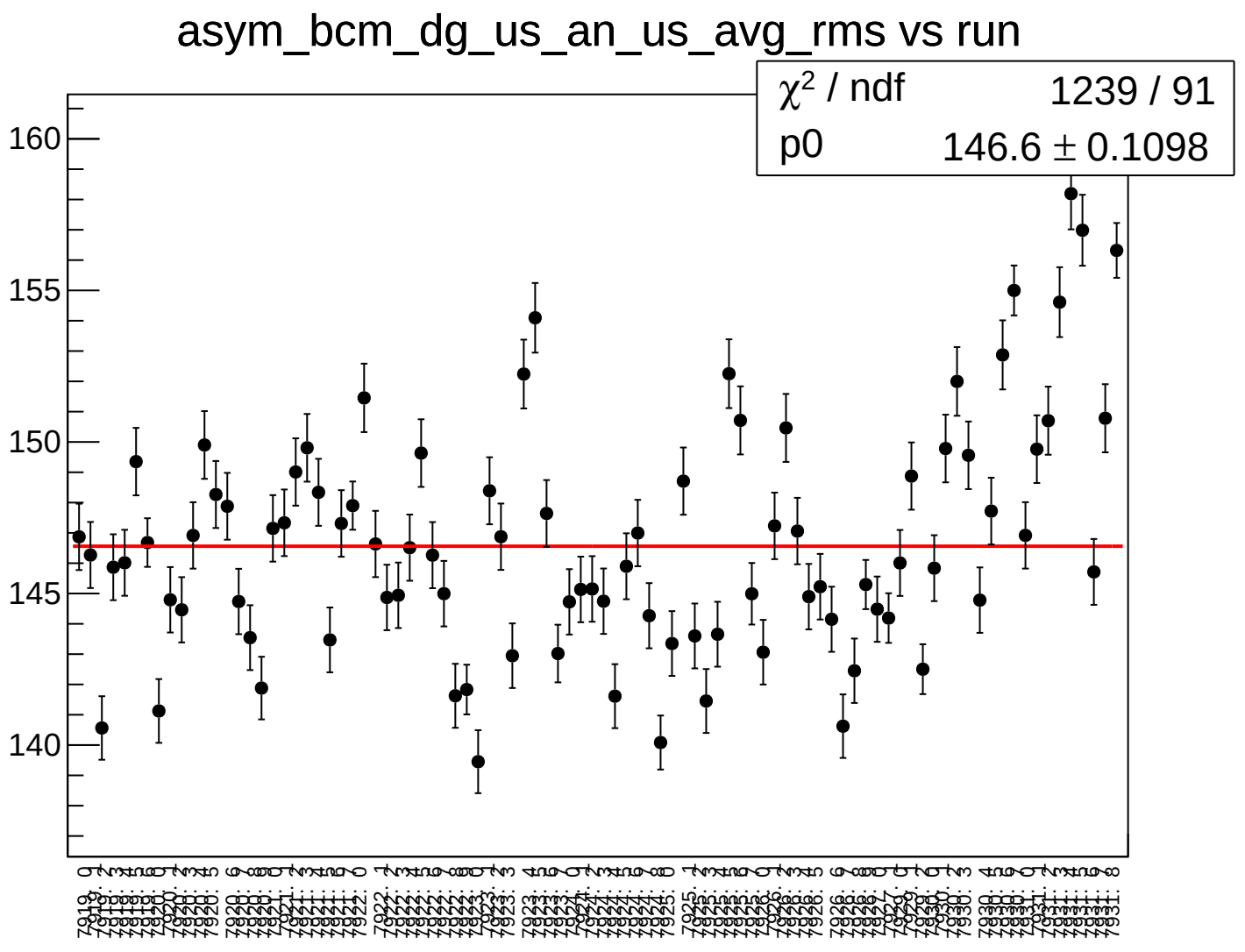

asym_bcm_cav4cQ_dg_ds_avg_rms vs run
χ² / ndf 1355 / 91
p0 151.1 ± 0.1132
165
160
155
150
145
140

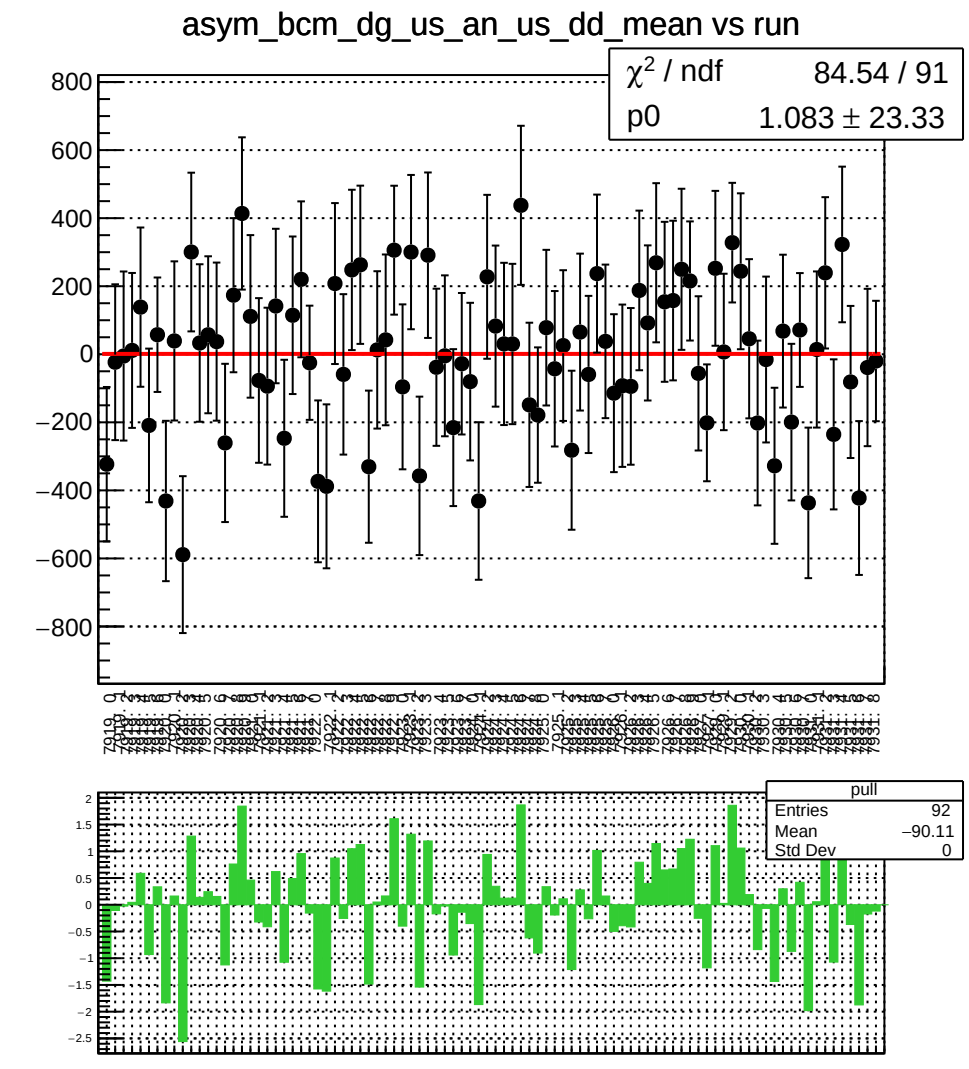

asym_bcm_cav4cQ_dg_ds_dd_mean vs run
χ² / ndf 75.76 / 91
p0 −5.61 ± 31.68
1000
500
0
−500
−1000
pull
Entries 92
Mean −24.07
Std Dev 0
2
1
0
−1
−2

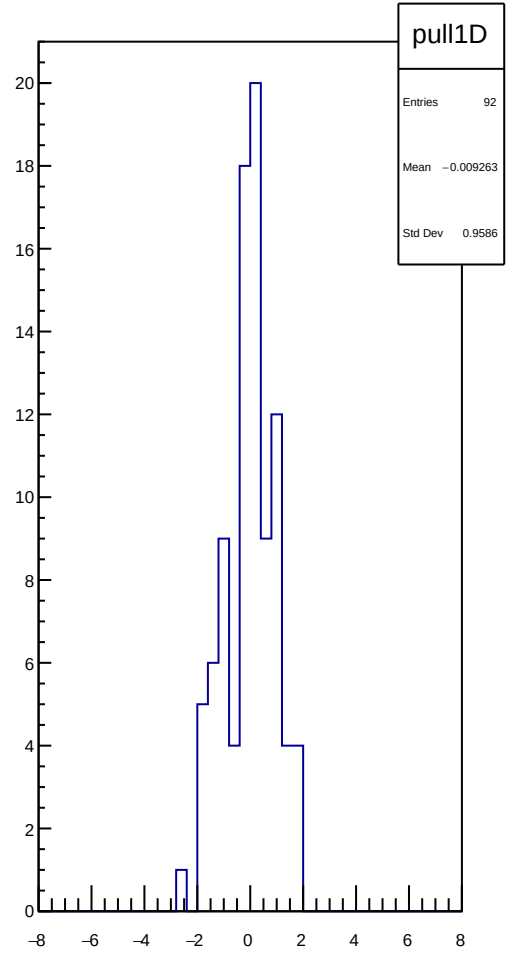

pull1D
Entries 92
Mean −0.00921
Std Dev 0.9074
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

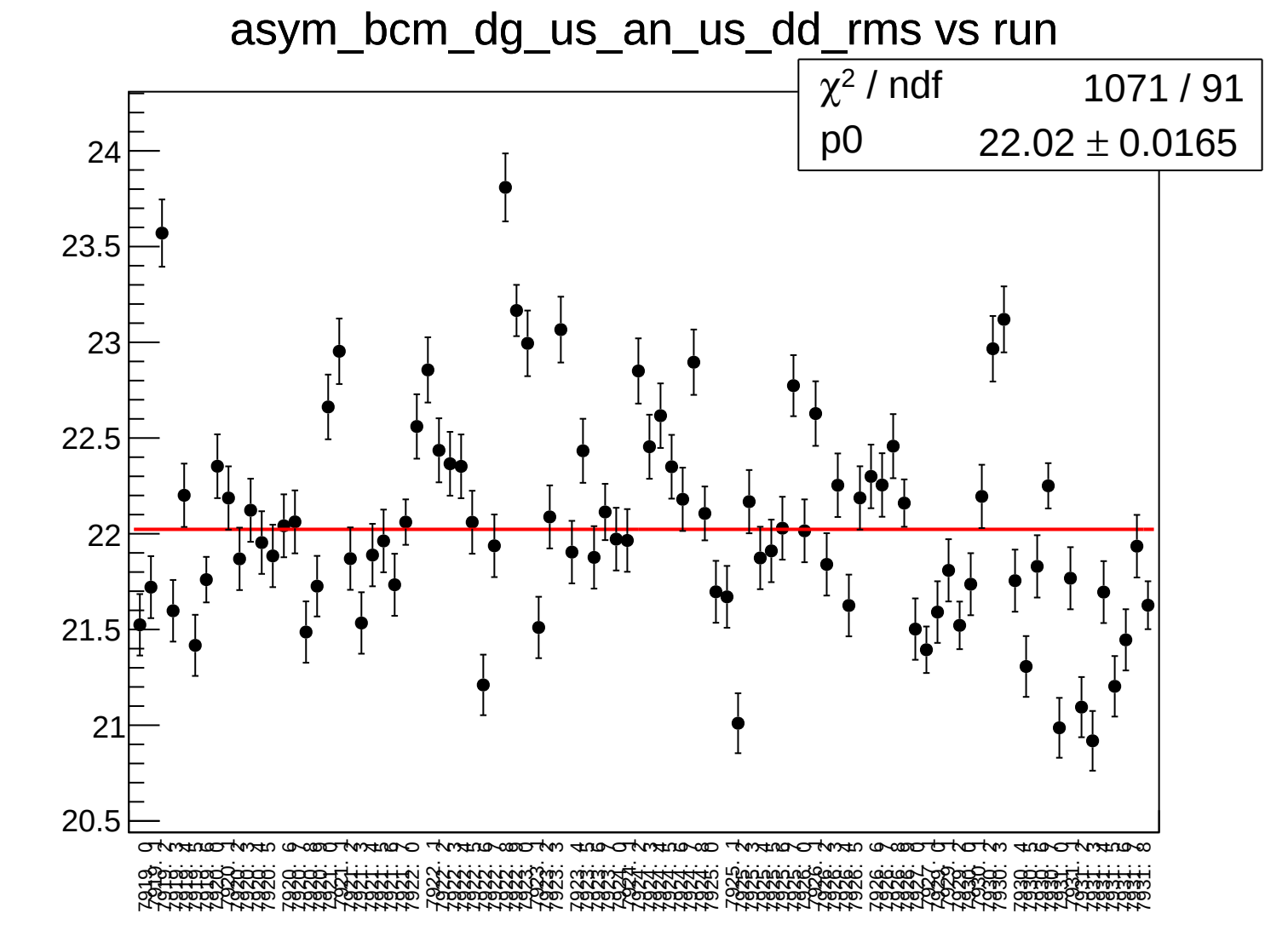

asym_bcm_cav4cQ_dg_ds_dd_rms vs run
χ² / ndf 2975 / 91
p0 29.88 ± 0.0224
34
33
32
31
30
29
28
27

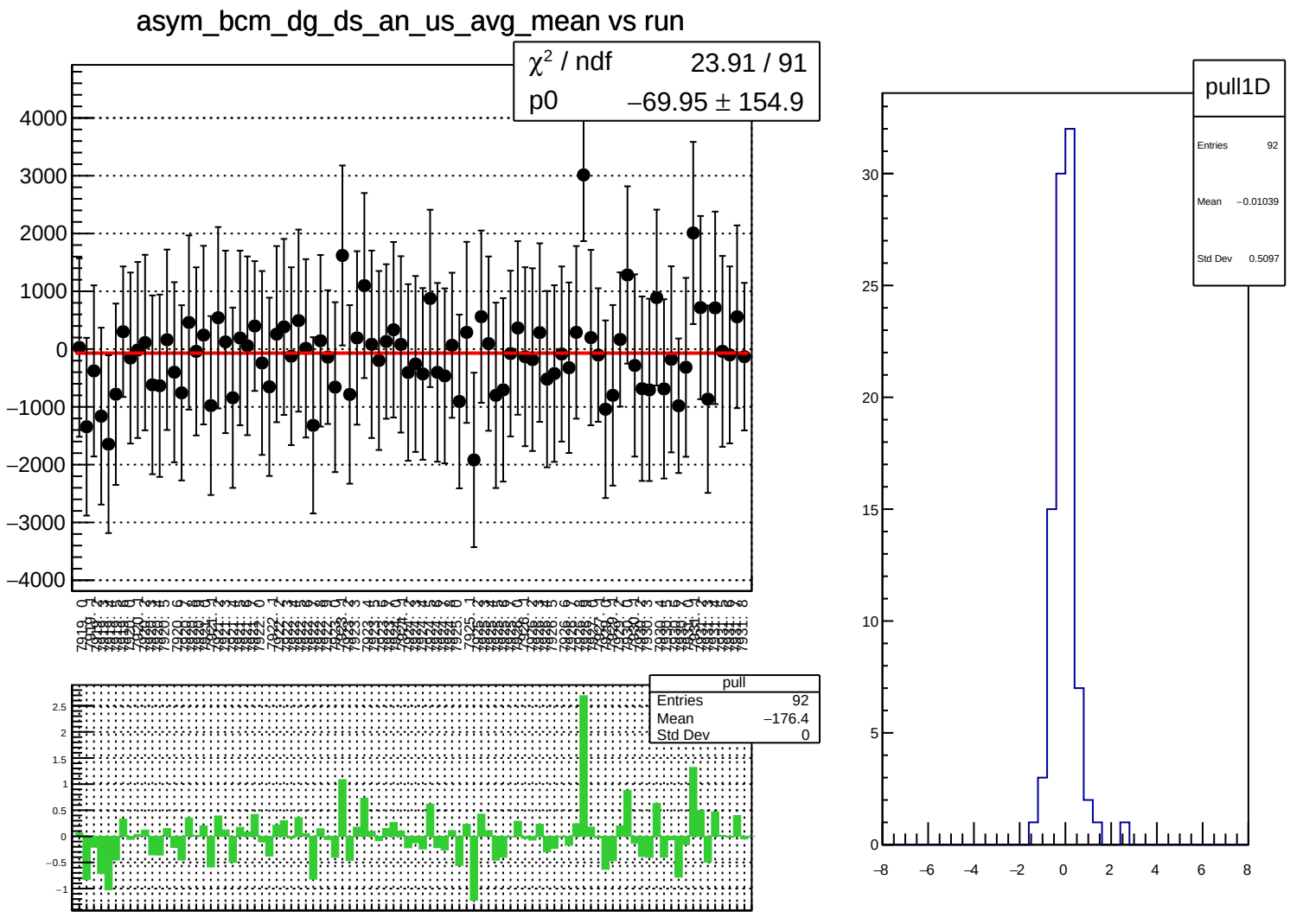

asym_bcm_dg_us_an_us_avg_mean vs run
χ² / ndf 29.22 / 91
p0 −61.98 ± 155.3
pull
Entries 92
Mean −148.9
Std Dev 0
pull1D
Entries 92
Mean −0.0143
Std Dev 0.5634

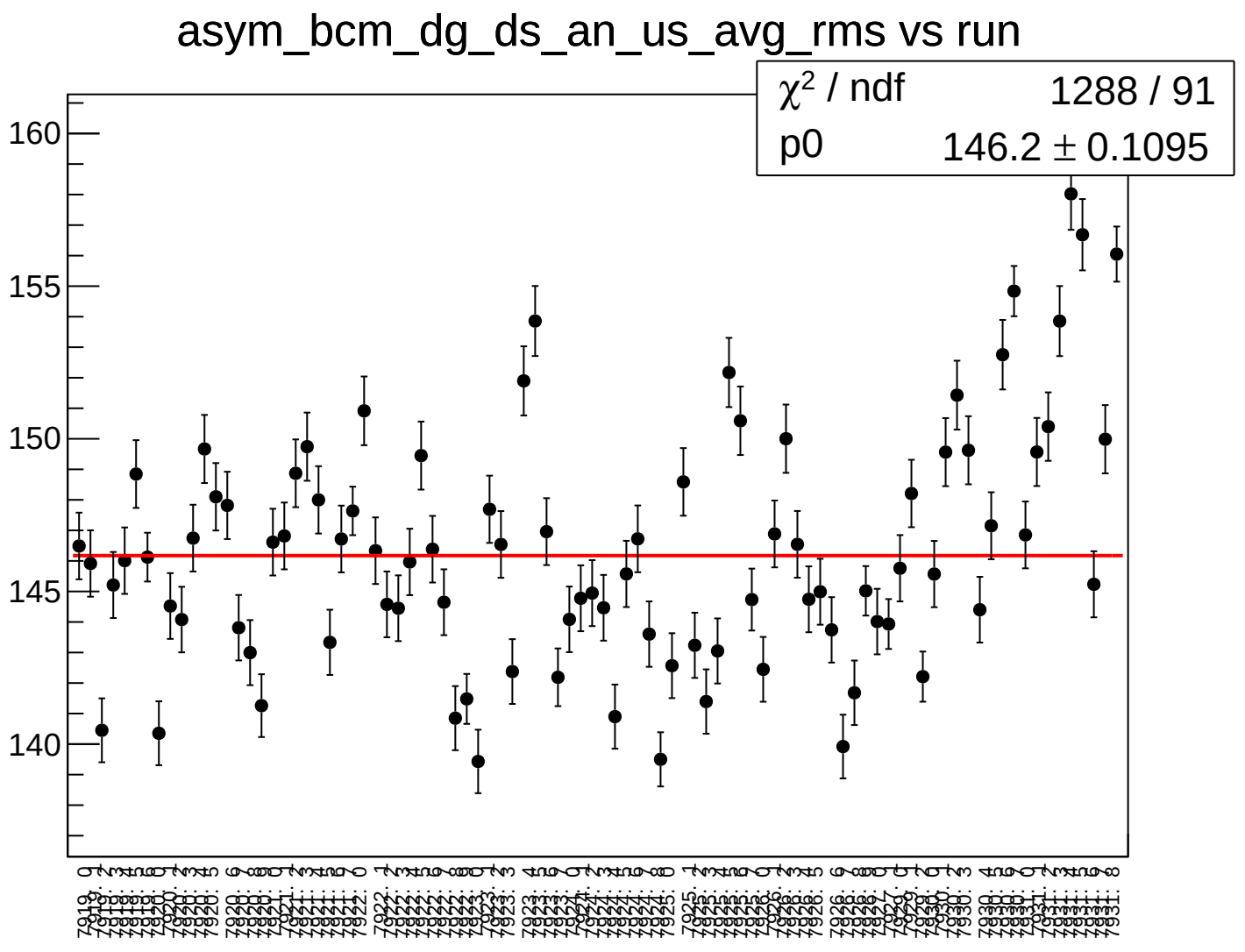

asym_bcm_dg_us_an_us_avg_rms vs run
χ² / ndf 1239 / 91
p0 146.6 ± 0.1098
160
155
150
145
140

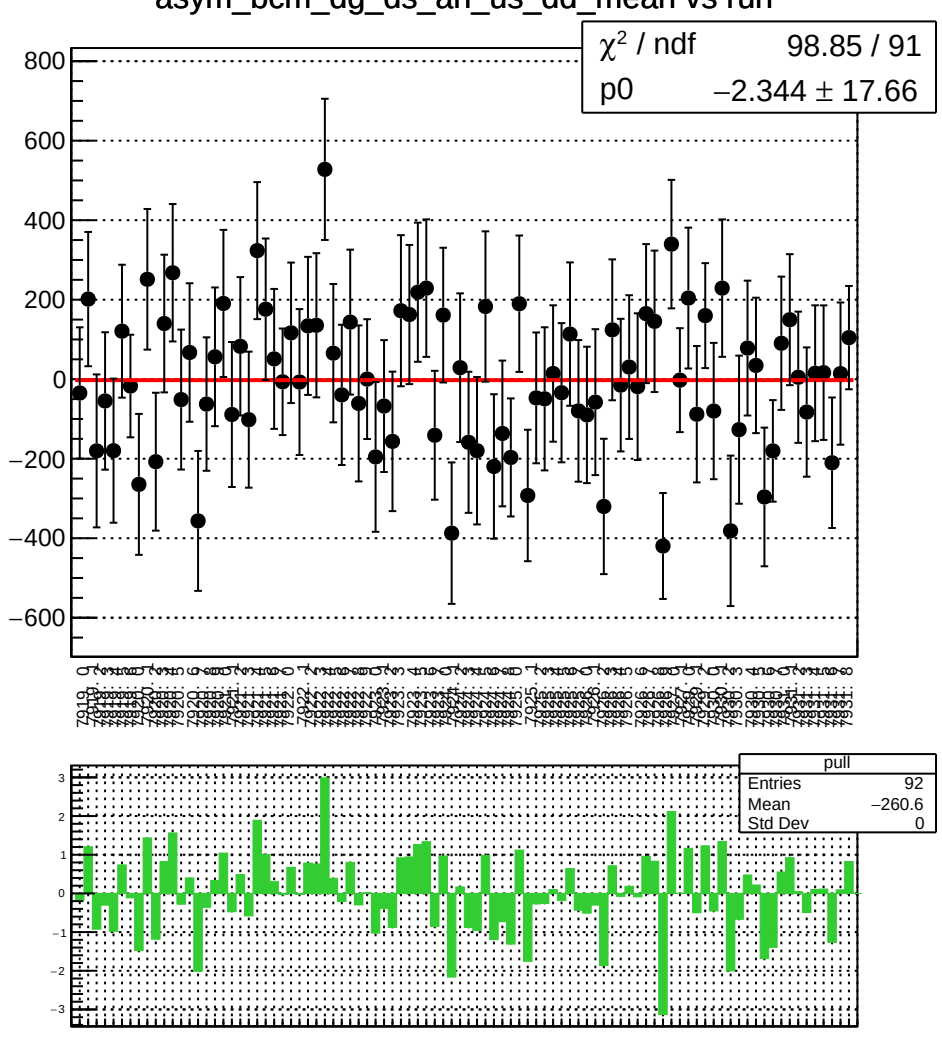

asym_bcm_dg_us_an_us_dd_mean vs run
χ² / ndf 84.54 / 91
p0 1.083 ± 23.33
pull
Entries 92
Mean −90.11
Std Dev 0

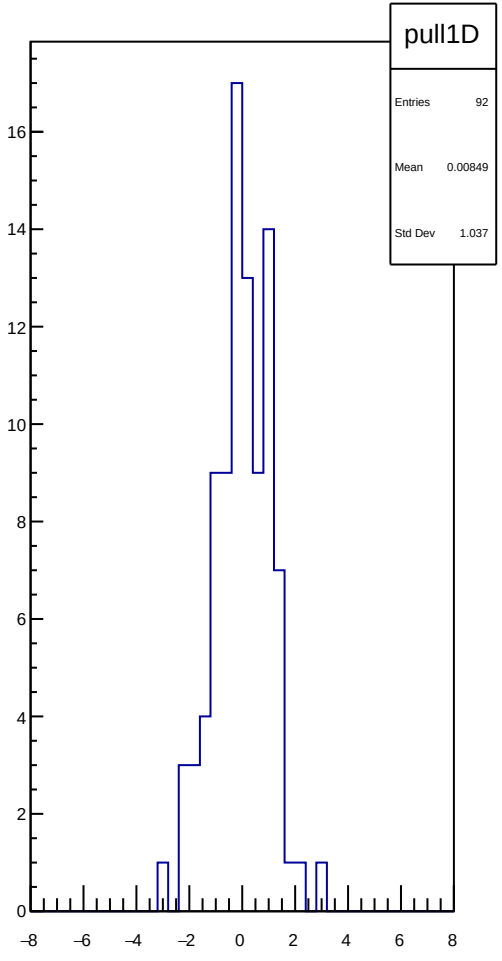

pull1D
Entries 92
Mean −0.009263
Std Dev 0.9586

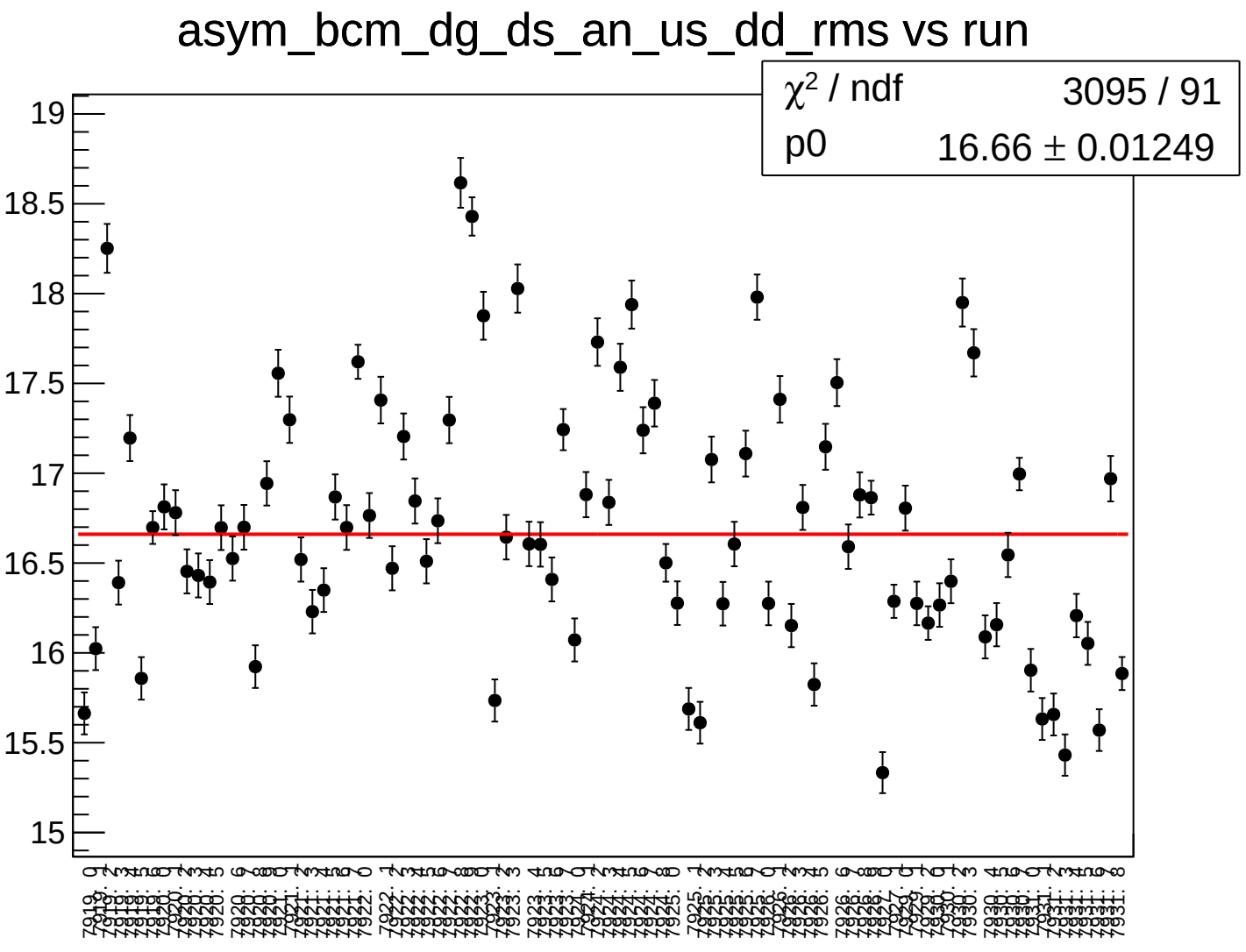

asym_bcm_dg_us_an_us_dd_rms vs run
χ² / ndf 1071 / 91
p0 22.02 ± 0.0165
24
23.5
23
22.5
22
21.5
21
20.5

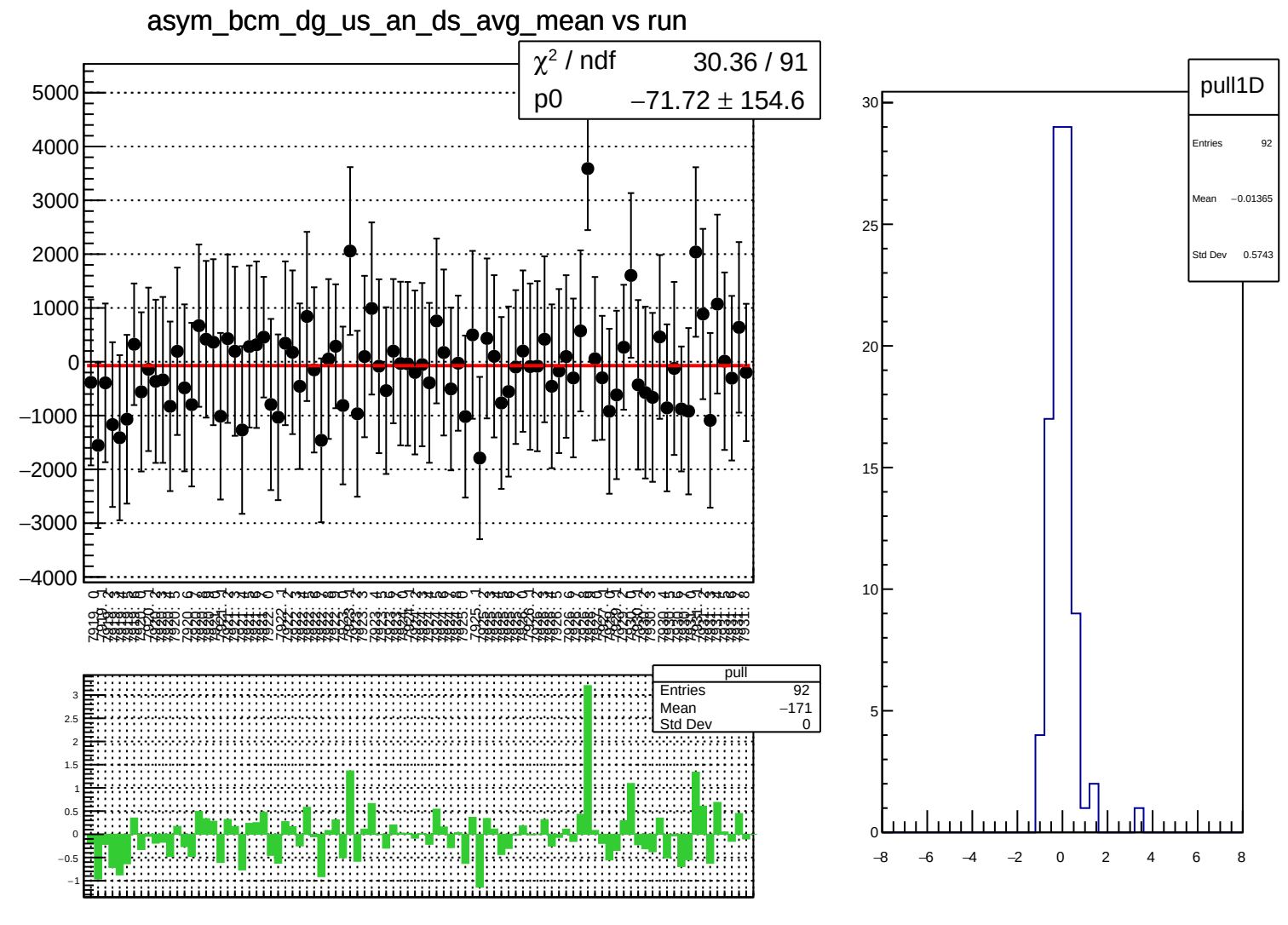

asym_bcm_dg_ds_an_us_avg_mean vs run
χ² / ndf 23.91 / 91
p0 −69.95 ± 154.9
pull
Entries 92
Mean −176.4
Std Dev 0
pull1D
Entries 92
Mean −0.01039
Std Dev 0.5097

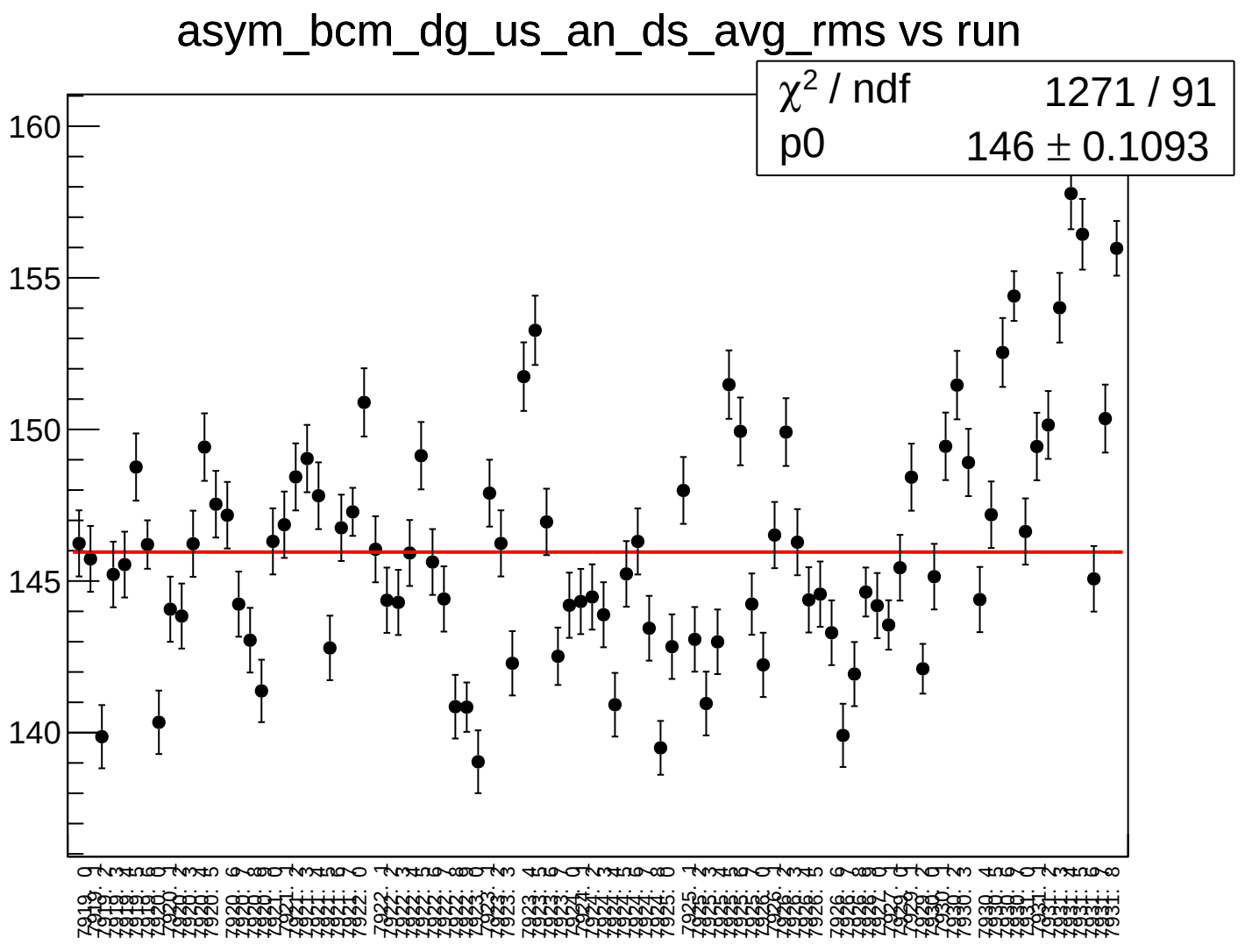

asym_bcm_dg_ds_an_us_avg_rms vs run
χ² / ndf 1288 / 91
p0 146.2 ± 0.1095
160
155
150
145
140

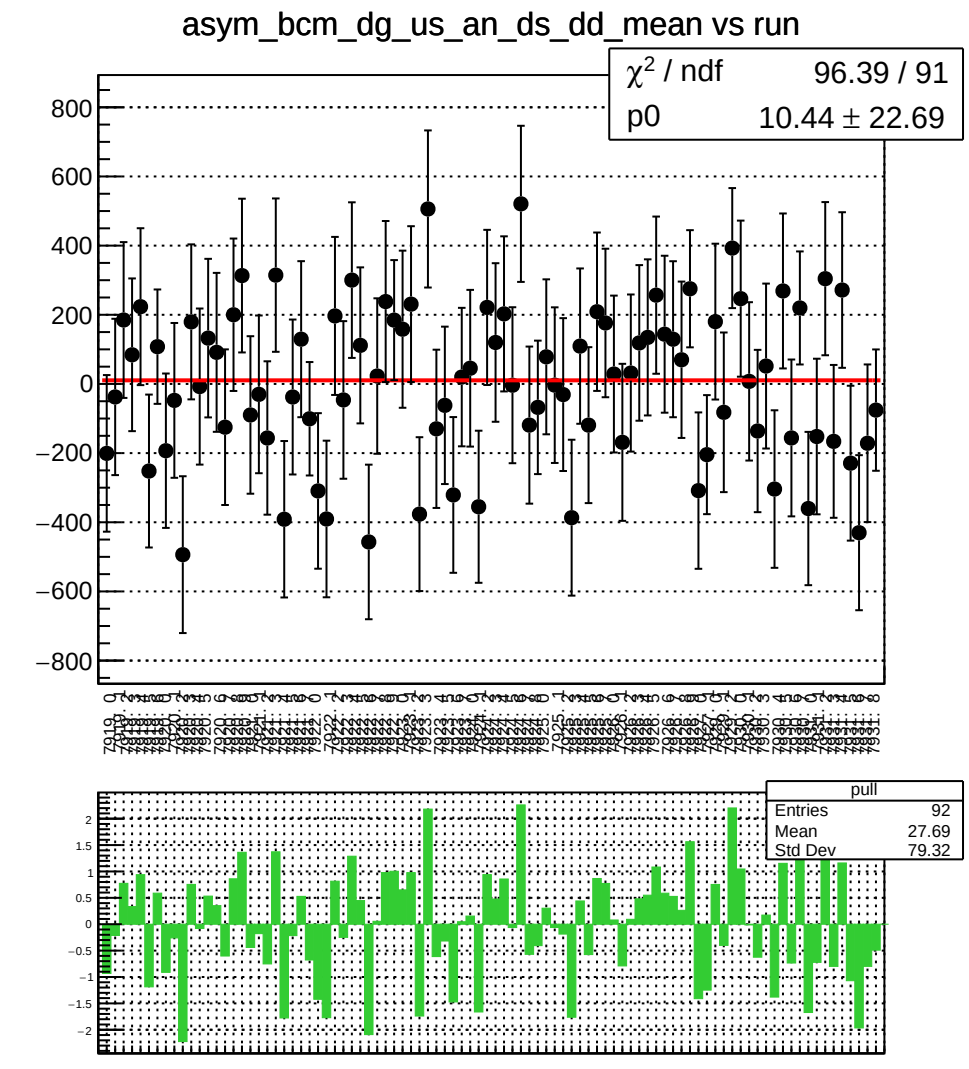

asym_bcm_dg_ds_an_us_dd_mean vs run
χ² / ndf 98.85 / 91
p0 −2.344 ± 17.66
pull
Entries 92
Mean −260.6
Std Dev 0

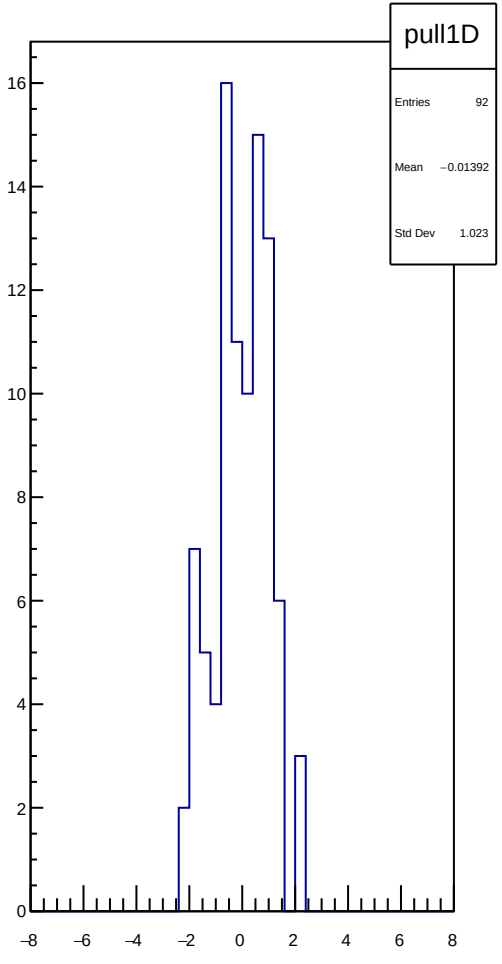

pull1D
Entries 92
Mean 0.00849
Std Dev 1.037

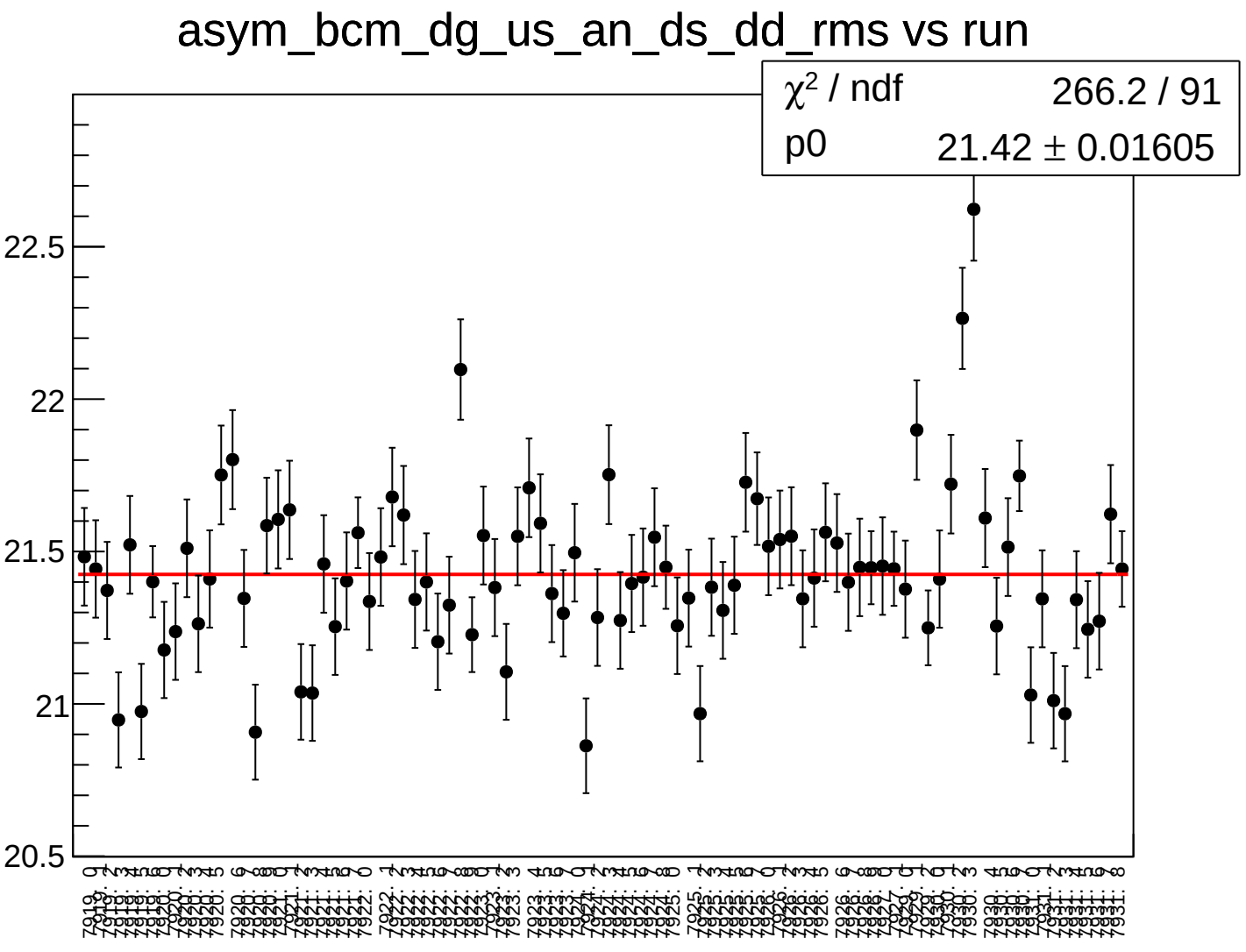

asym_bcm_dg_ds_an_us_dd_rms vs run
χ^2 / ndf 3095 / 91
p0 16.66 ± 0.01249
19
18.5
18
17.5
17
16.5
16
15.5
15

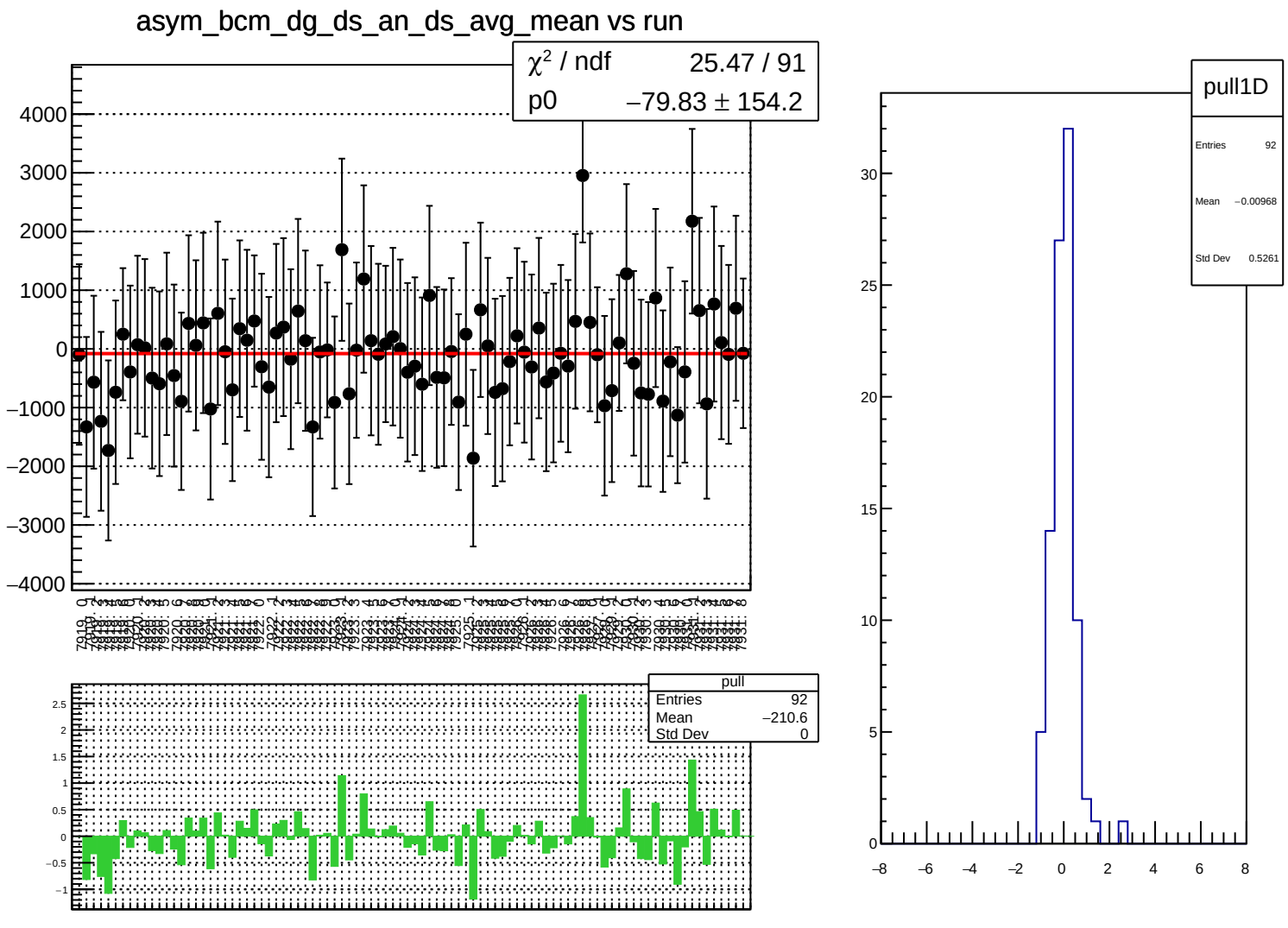

asym_bcm_dg_us_an_ds_avg_mean vs run
χ² / ndf 30.36 / 91
p0 −71.72 ± 154.6
pull
Entries 92
Mean −171
Std Dev 0
pull1D
Entries 92
Mean −0.01365
Std Dev 0.5743

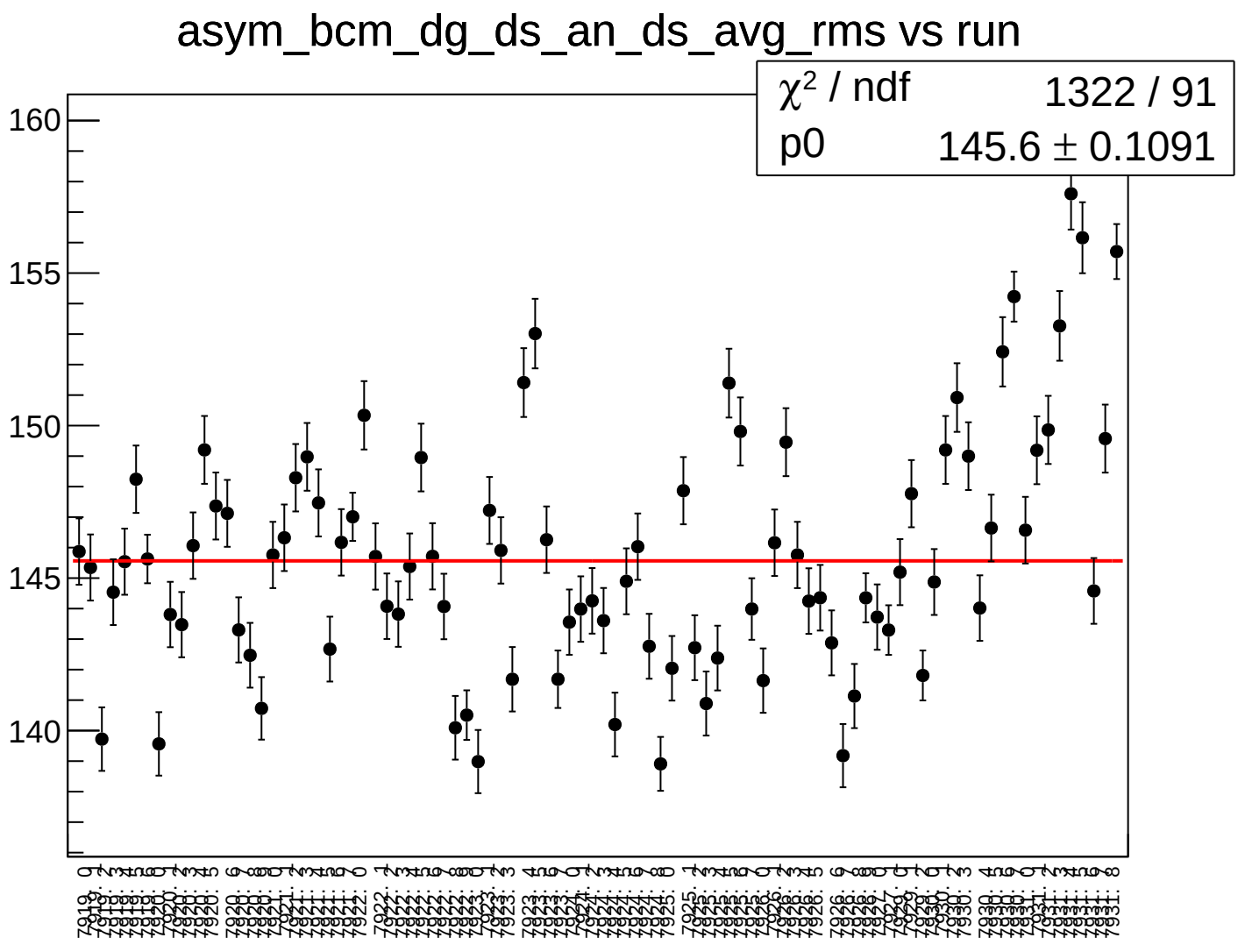

asym_bcm_dg_us_an_ds_avg_rms vs run
χ² / ndf 1271 / 91
p0 146 ± 0.1093
160
155
150
145
140

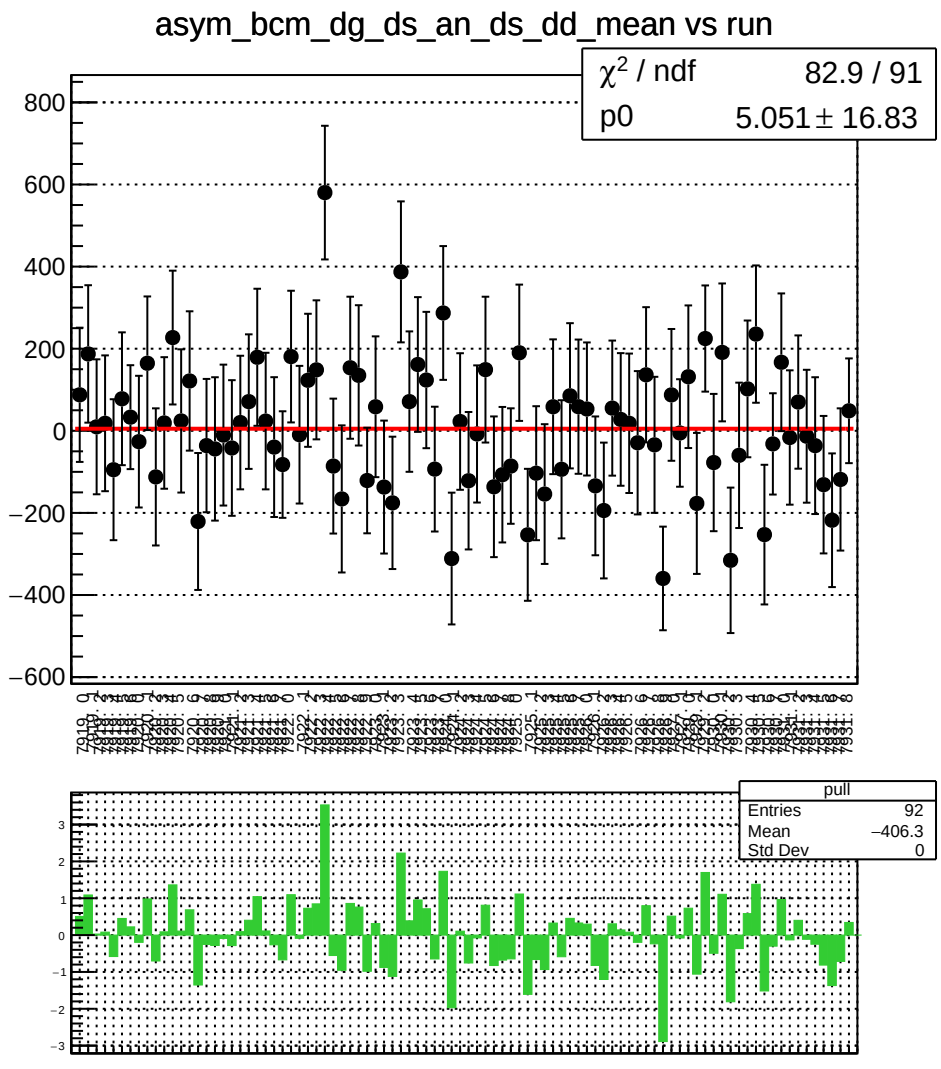

asym_bcm_dg_us_an_ds_dd_mean vs run
χ² / ndf 96.39 / 91
p0 10.44 ± 22.69
pull
Entries 92
Mean 27.69
Std Dev 79.32

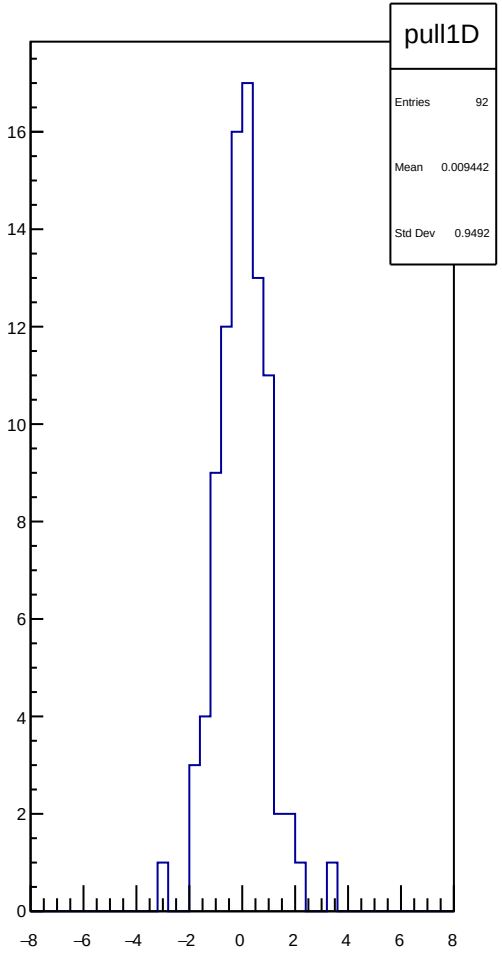

pull1D
Entries 92
Mean −0.01392
Std Dev 1.023

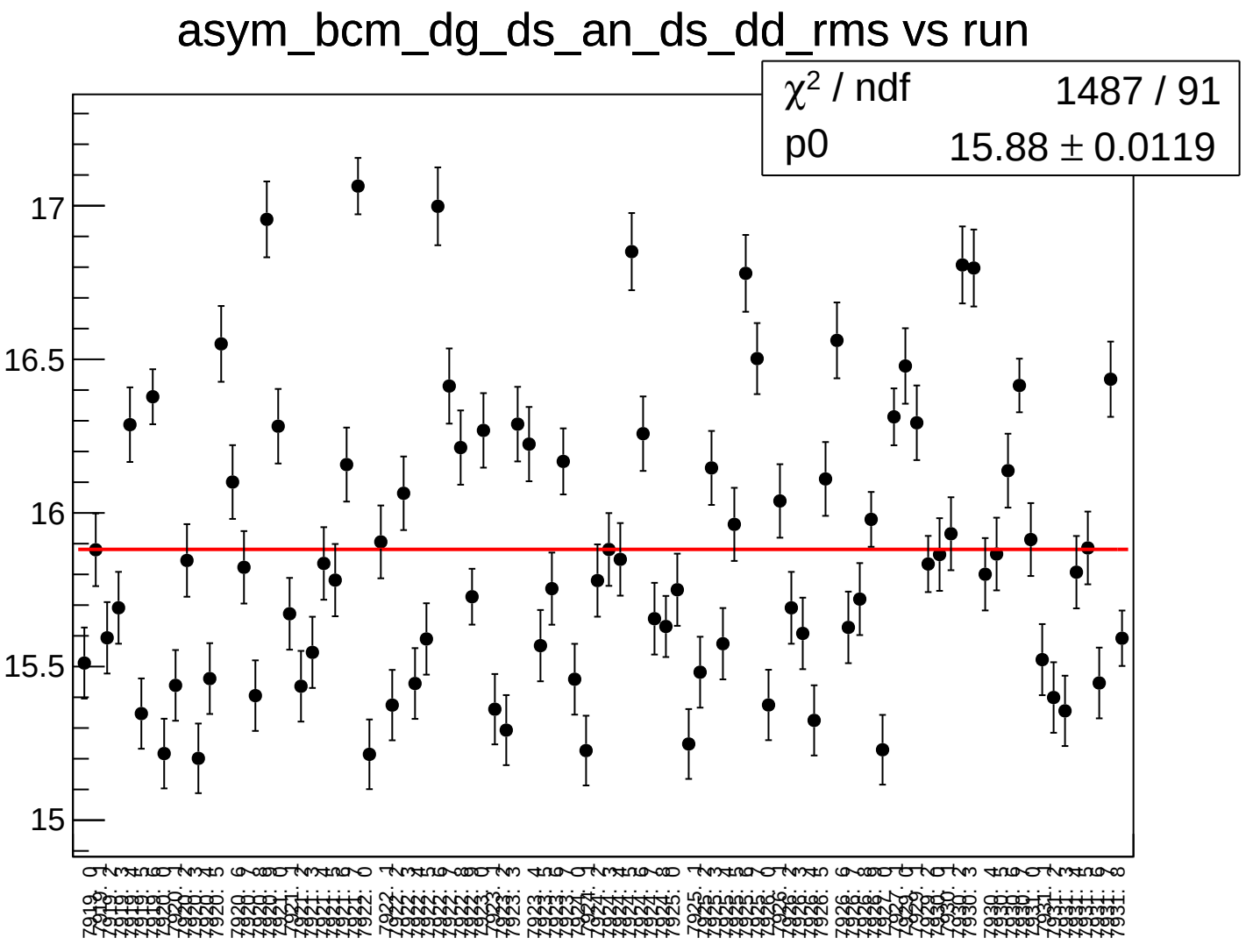

asym_bcm_dg_us_an_ds_dd_rms vs run
χ² / ndf 266.2 / 91
p0 21.42 ± 0.01605
22.5
22
21.5
21
20.5

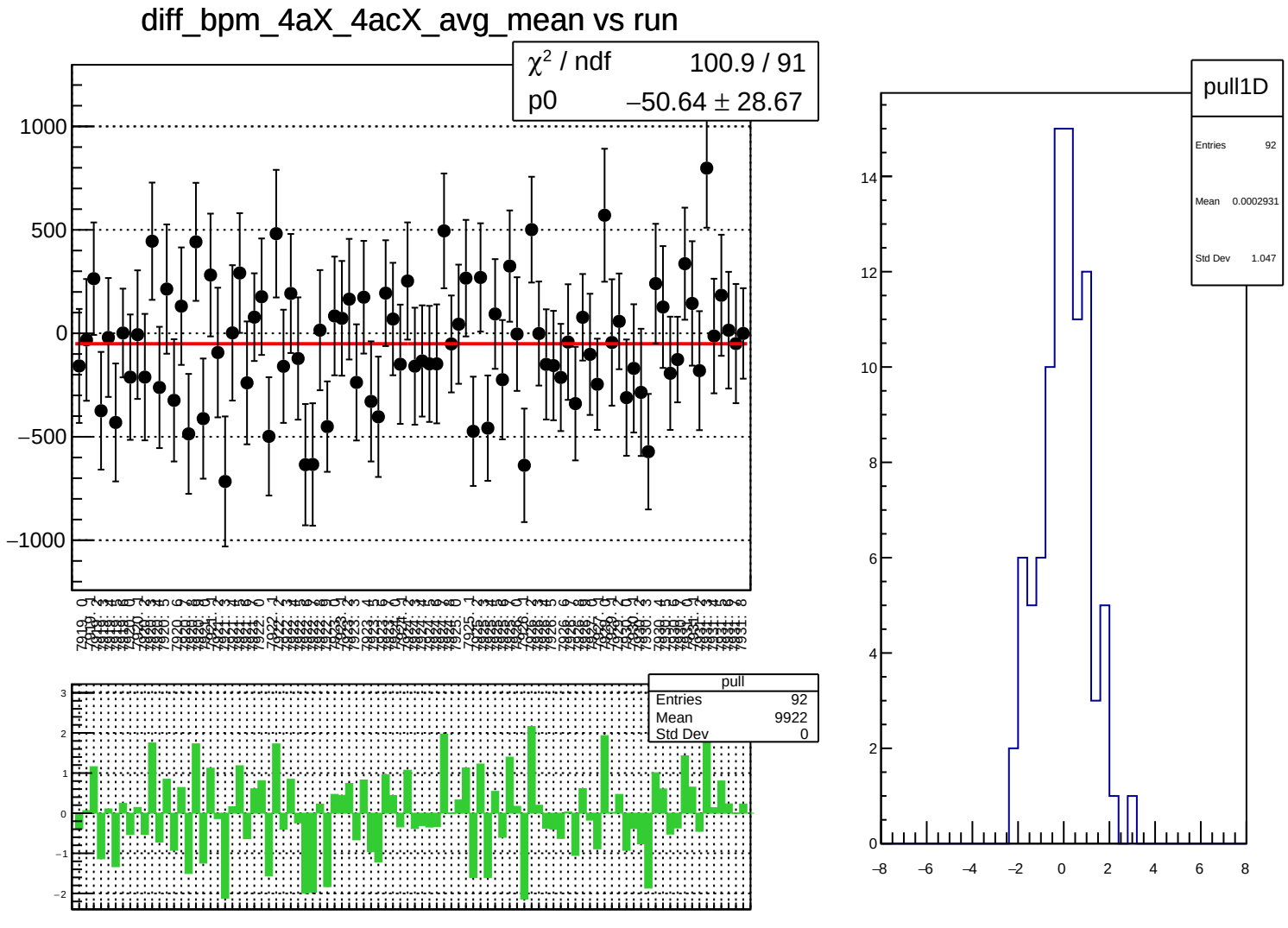

asym_bcm_dg_ds_an_ds_avg_mean vs run
χ² / ndf 25.47 / 91
p0 −79.83 ± 154.2
pull
Entries 92
Mean −210.6
Std Dev 0
pull1D
Entries 92
Mean −0.00968
Std Dev 0.5261

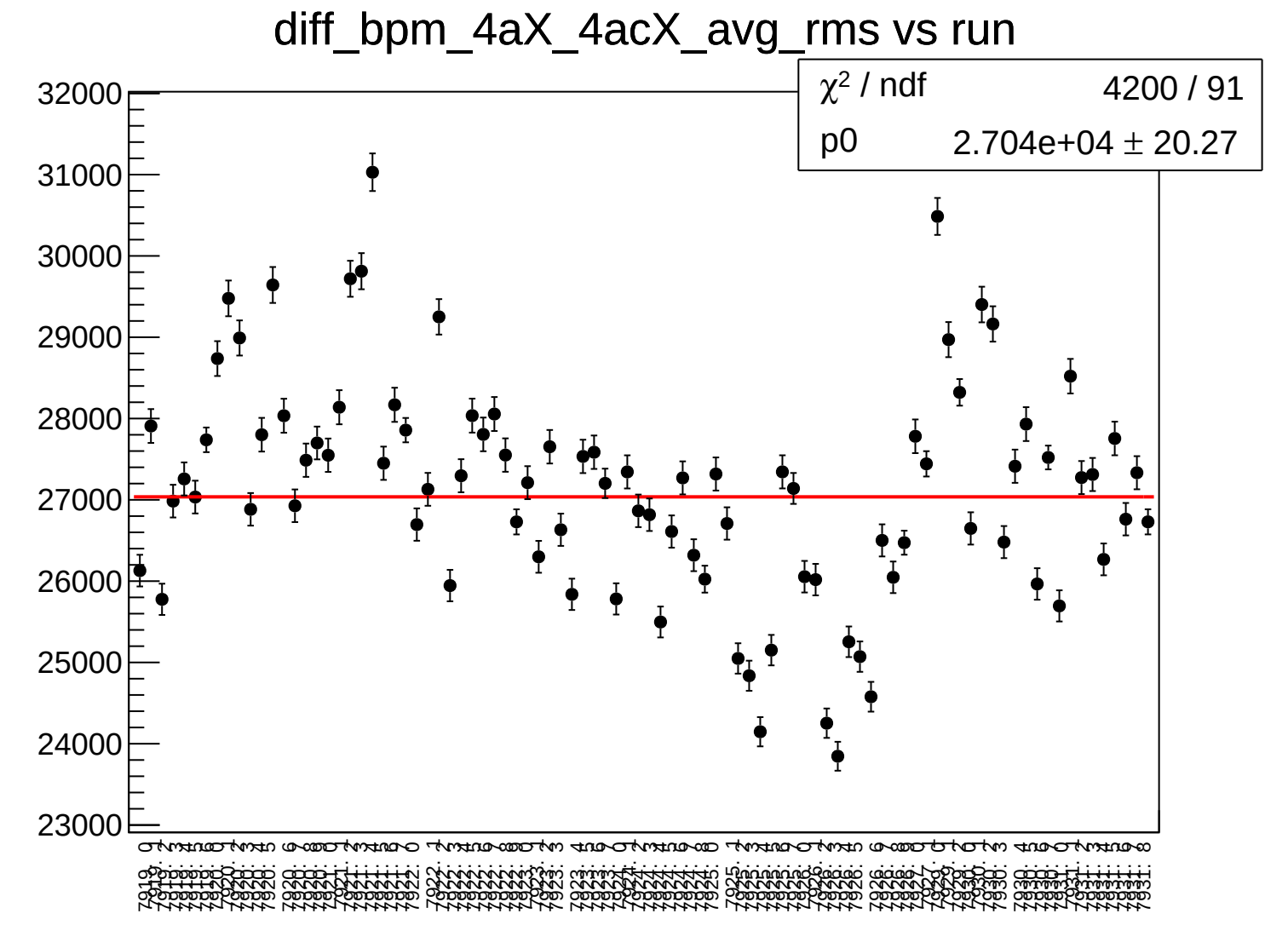

asym_bcm_dg_ds_an_ds_avg_rms vs run
χ² / ndf 1322 / 91
p0 145.6 ± 0.1091
160
155
150
145
140

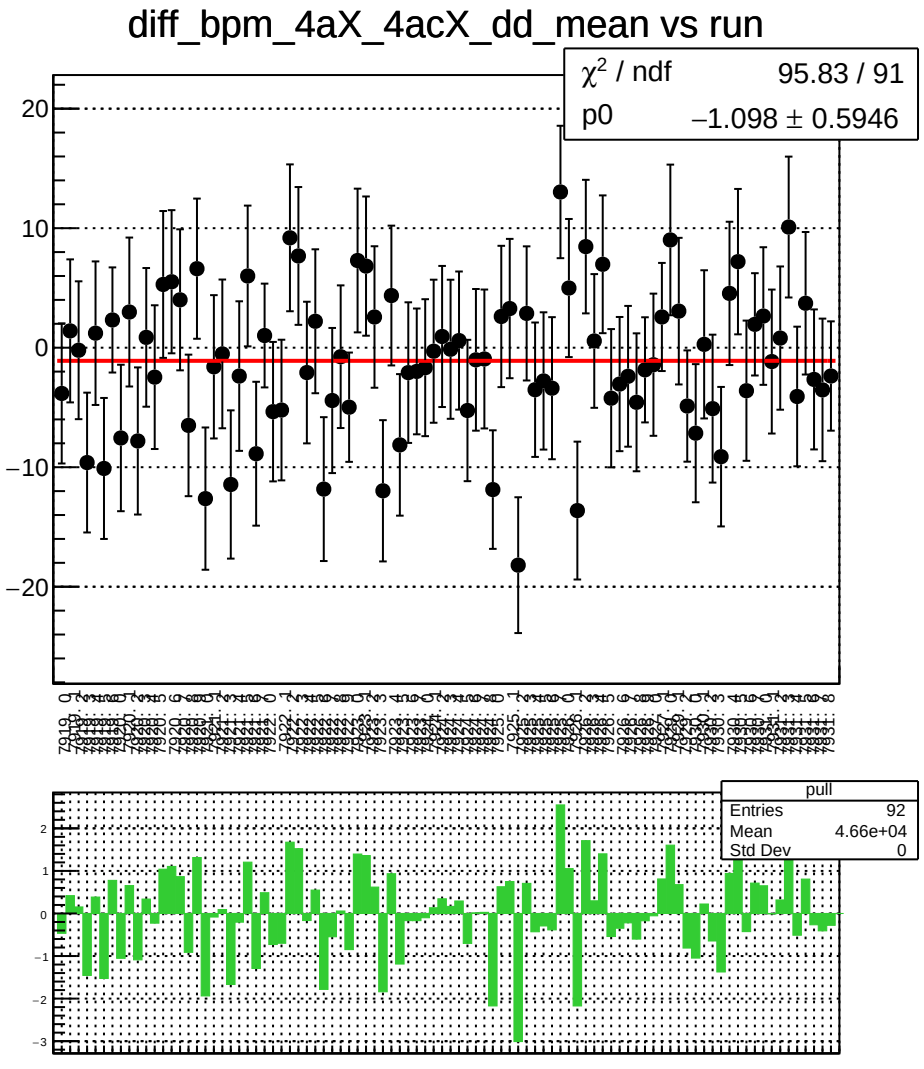

asym_bcm_dg_ds_an_ds_dd_mean vs run
χ² / ndf 82.9 / 91
p0 5.051 ± 16.83
pull
Entries 92
Mean −406.3
Std Dev 0

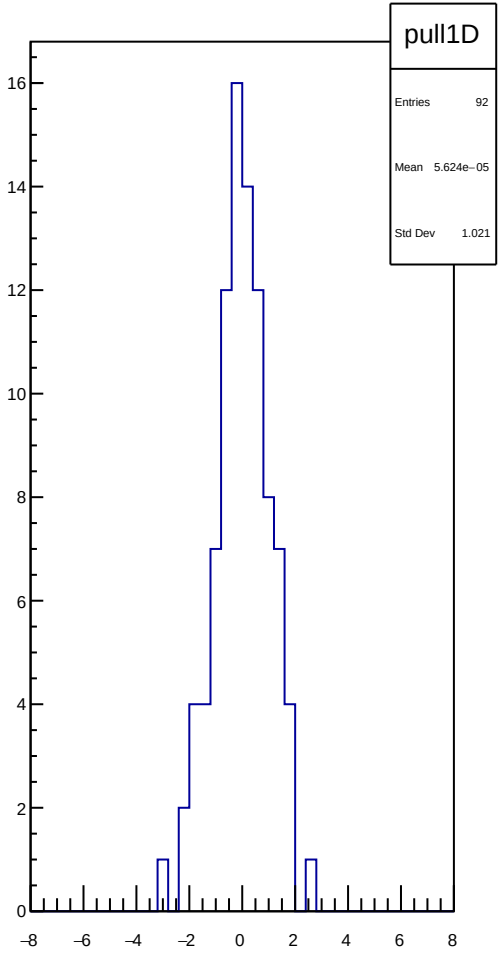

pull1D
Entries 92
Mean 0.009442
Std Dev 0.9492

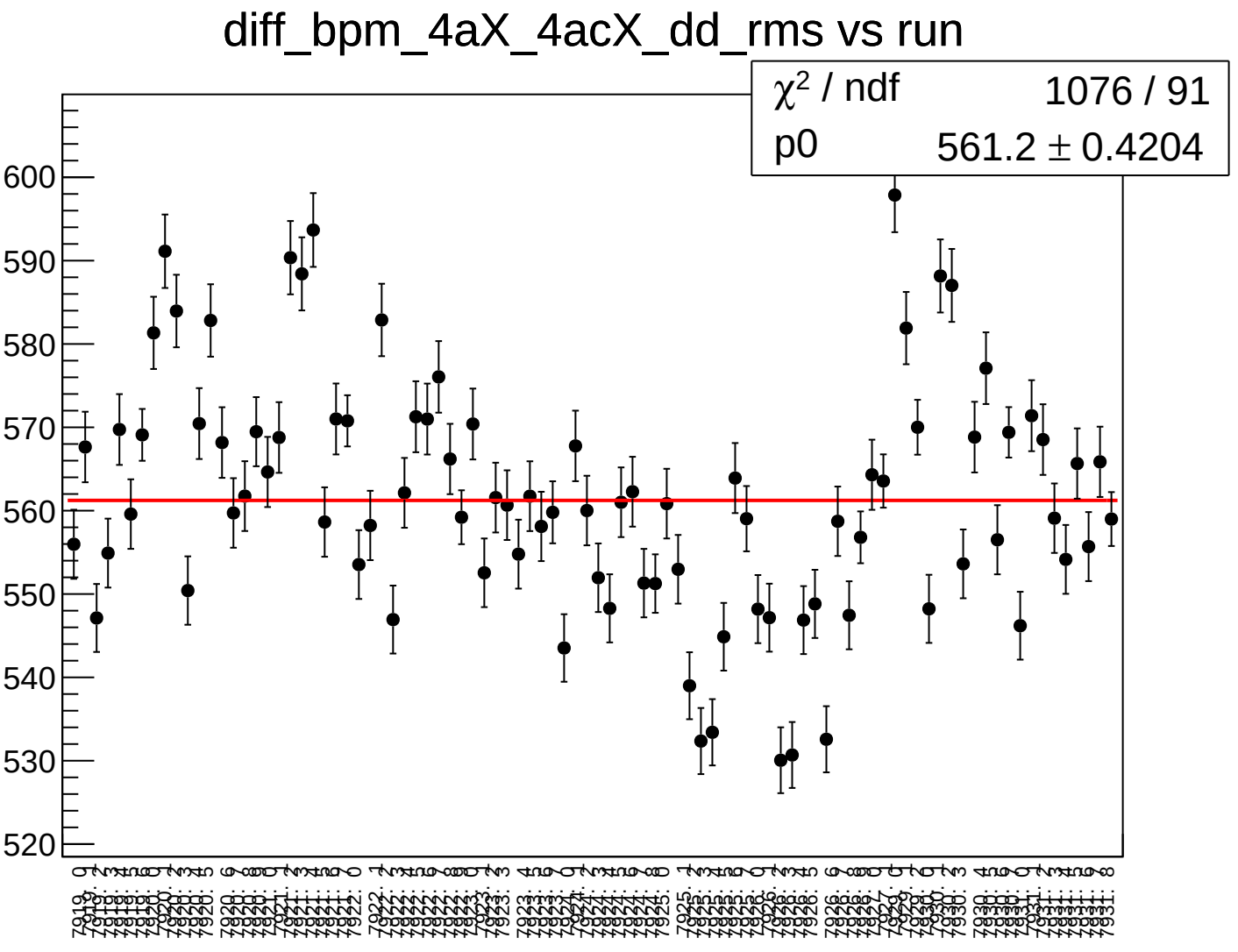

asym_bcm_dg_ds_an_ds_dd_rms vs run
χ² / ndf 1487 / 91
p0 15.88 ± 0.0119
17
16.5
16
15.5
15

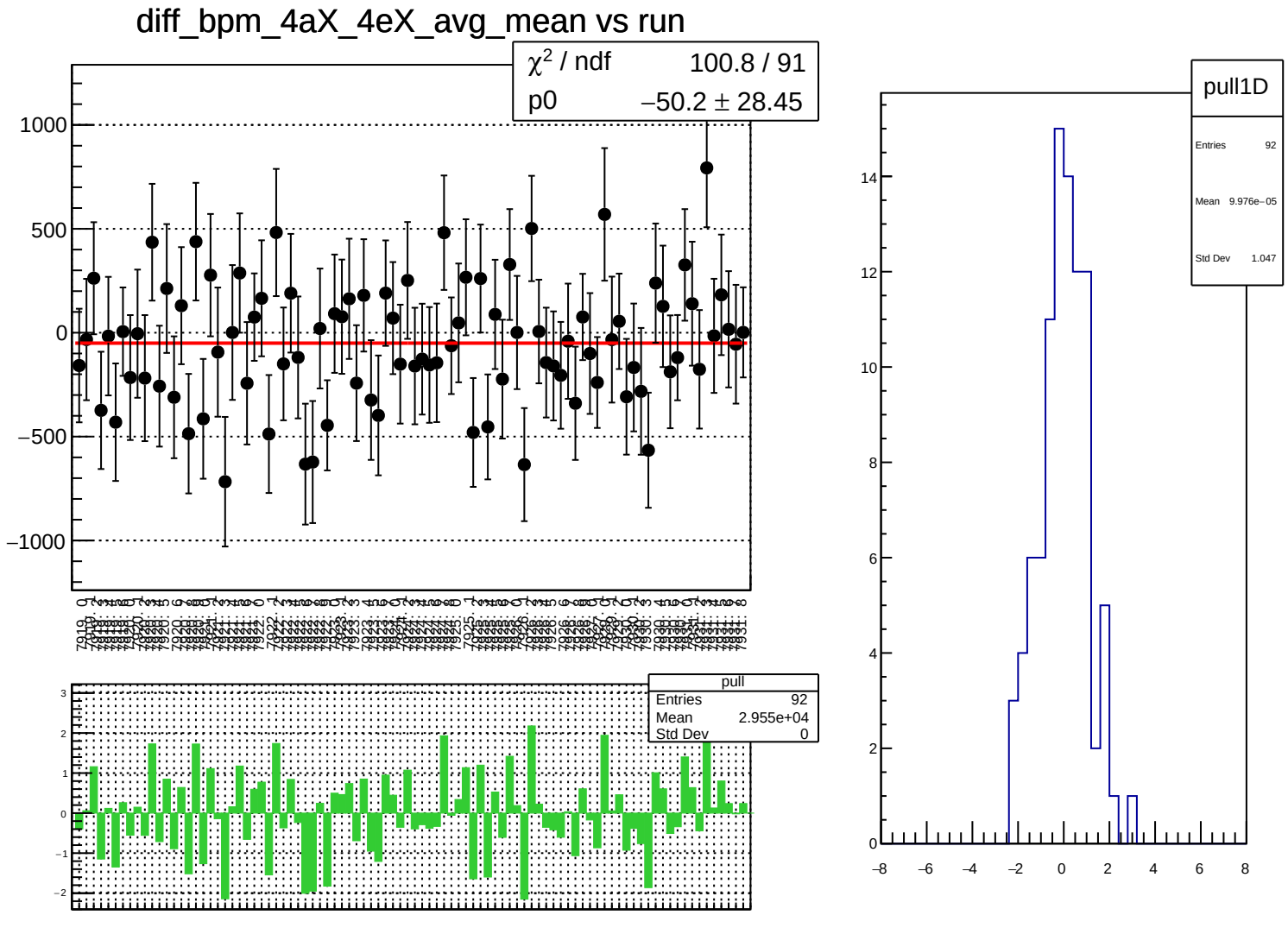

diff_bpm_4aX_4acX_avg_mean vs run
χ² / ndf 100.9 / 91
p0 −50.64 ± 28.67
1000
500
0
−500
−1000
pull
Entries 92
Mean 9922
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.0002931
Std Dev 1.047
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

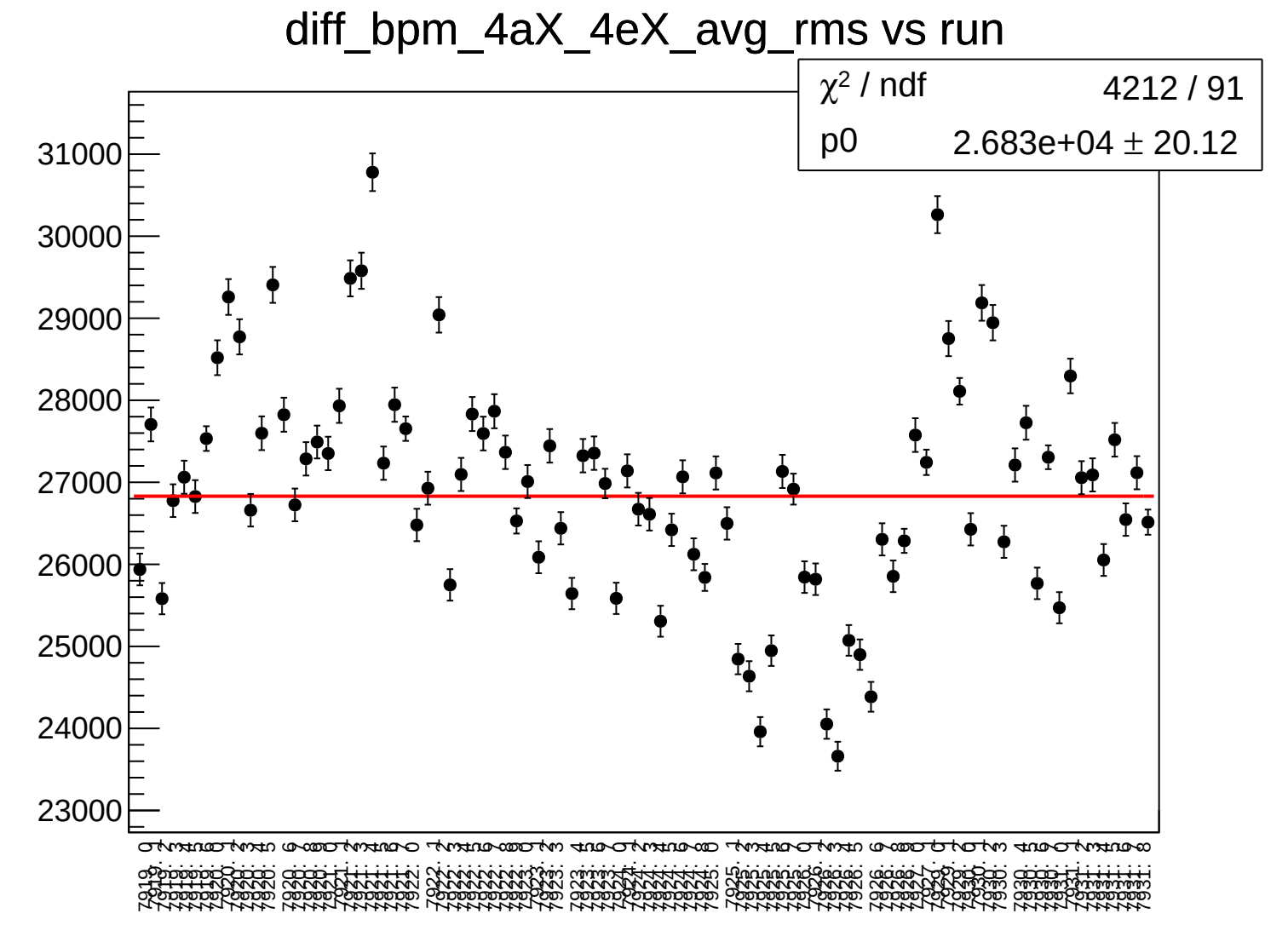

diff_bpm_4aX_4acX_avg_rms vs run
χ² / ndf 4200 / 91
p0 2.704e+04 ± 20.27
32000
31000
30000
29000
28000
27000
26000
25000
24000
23000

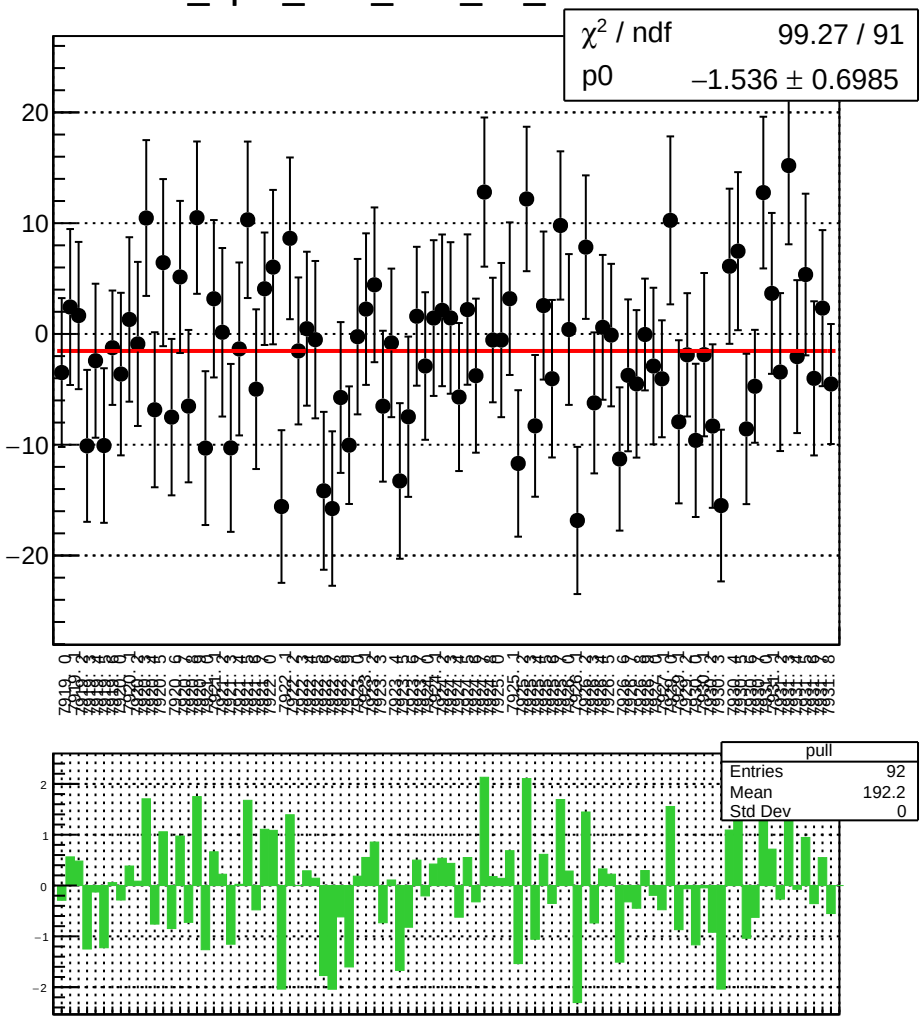

diff_bpm_4aX_4acX_dd_mean vs run
χ² / ndf 95.83 / 91
p0 −1.098 ± 0.5946
pull
Entries 92
Mean 4.66e+04
Std Dev 0

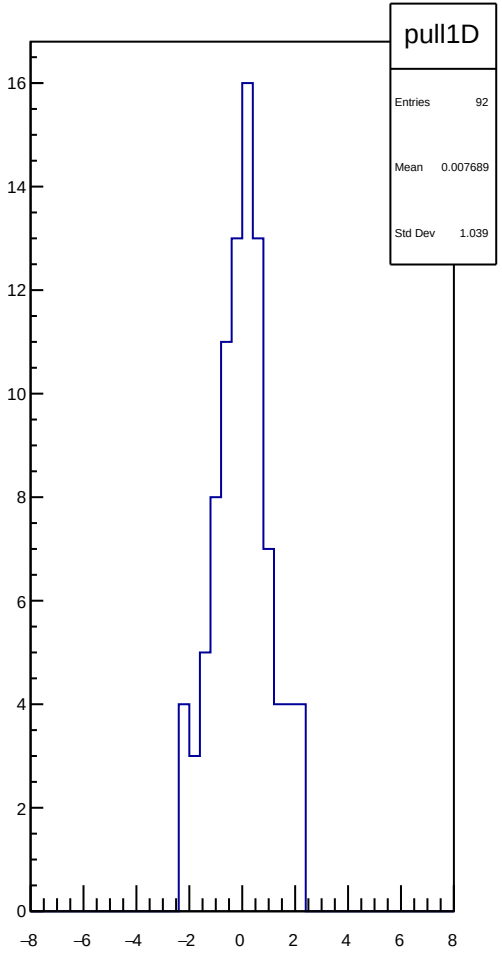

pull1D
Entries 92
Mean 5.624e−05
Std Dev 1.021

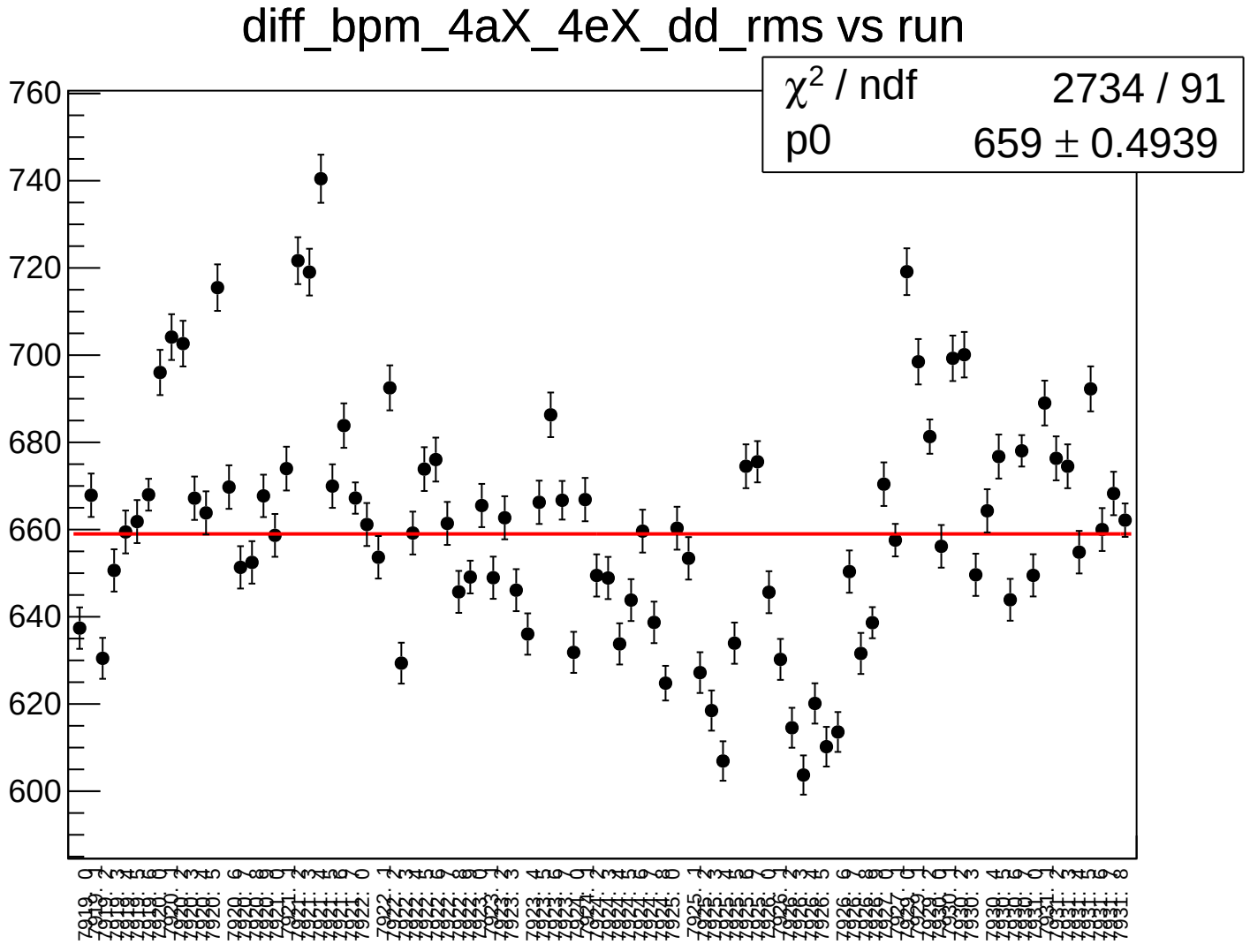

diff_bpm_4aX_4acX_dd_rms vs run
χ² / ndf 1076 / 91
p0 561.2 ± 0.4204
600
590
580
570
560
550
540
530
520

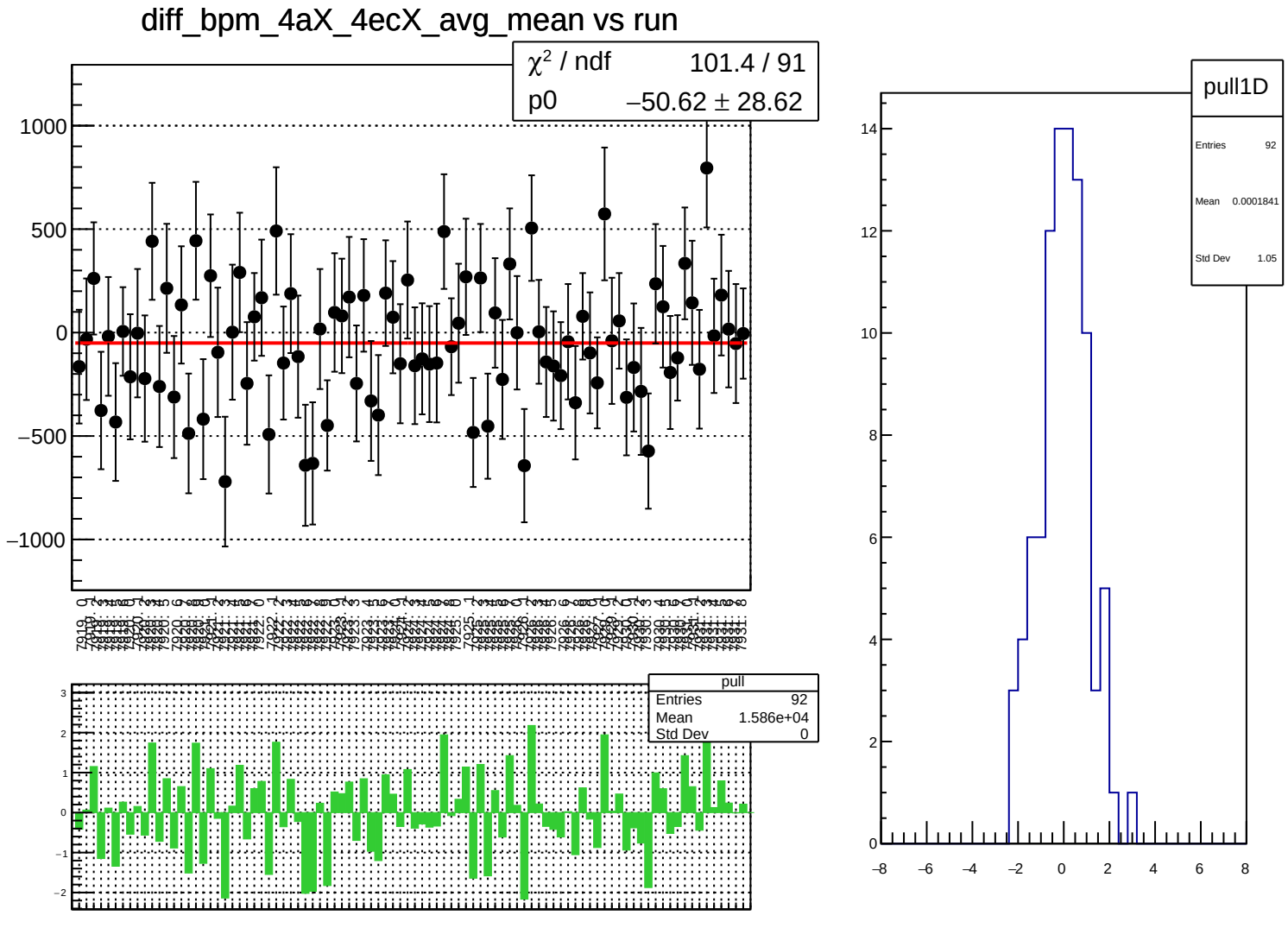

diff_bpm_4aX_4eX_avg_mean vs run
χ² / ndf 100.8 / 91
p0 −50.2 ± 28.45
1000
500
0
−500
−1000
pull
Entries 92
Mean 2.955e+04
Std Dev 0
pull1D
Entries 92
Mean 9.976e−05
Std Dev 1.047
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

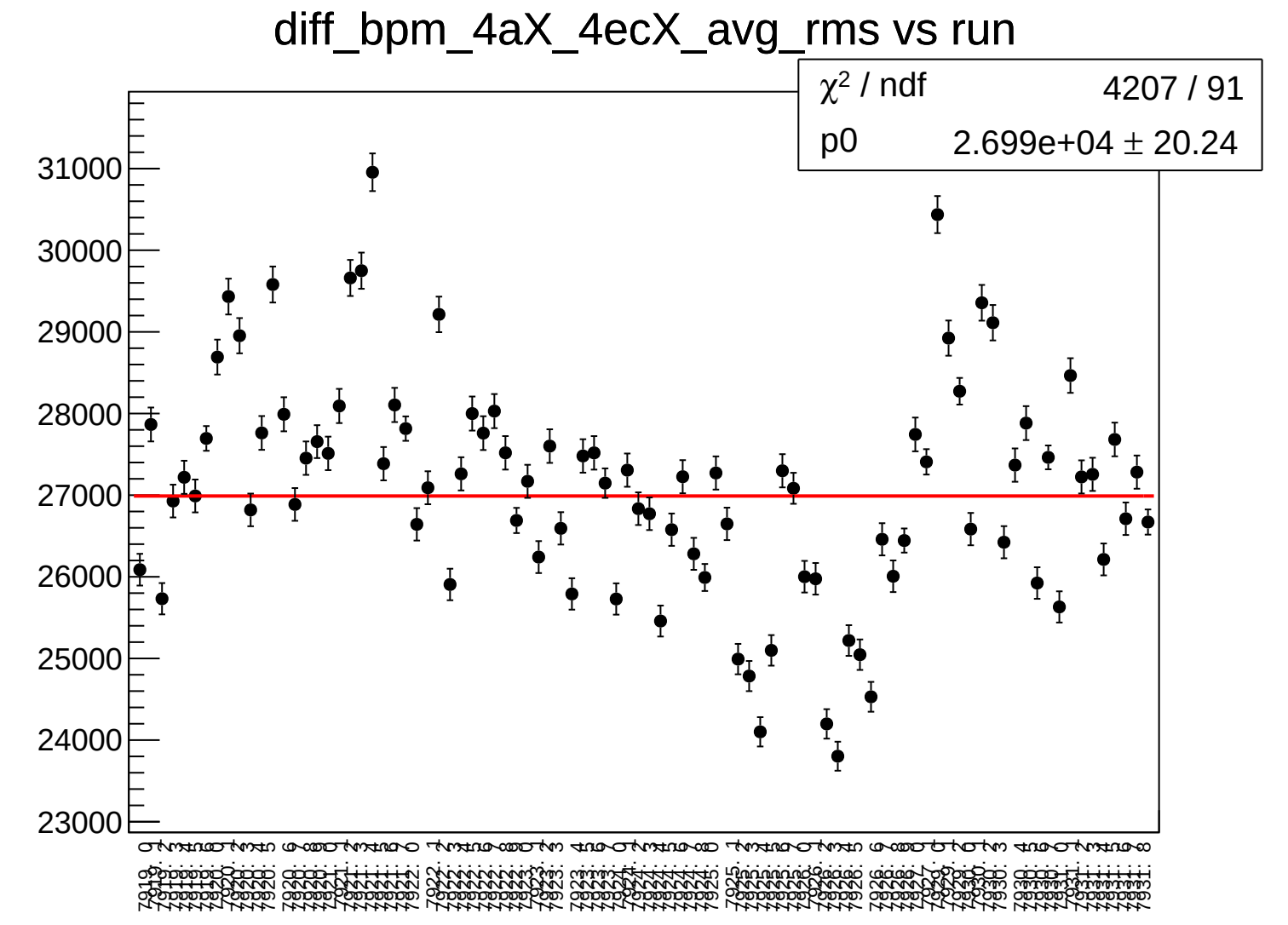

diff_bpm_4aX_4eX_avg_rms vs run
χ² / ndf 4212 / 91
p0 2.683e+04 ± 20.12
31000
30000
29000
28000
27000
26000
25000
24000
23000

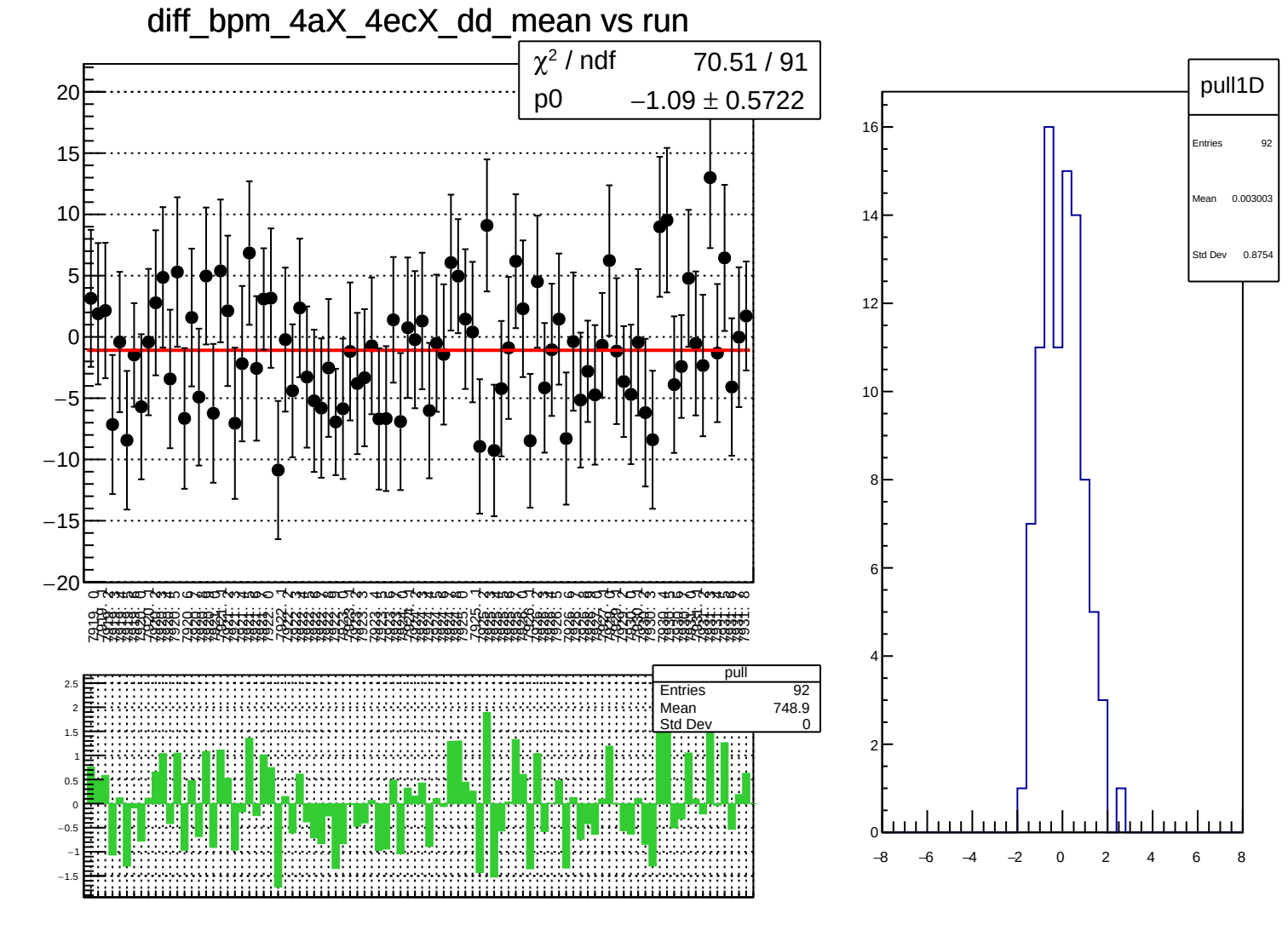

diff_bpm_4aX_4eX_dd_mean vs run
χ² / ndf 99.27 / 91
p0 −1.536 ± 0.6985
pull
Entries 92
Mean 192.2
Std Dev 0

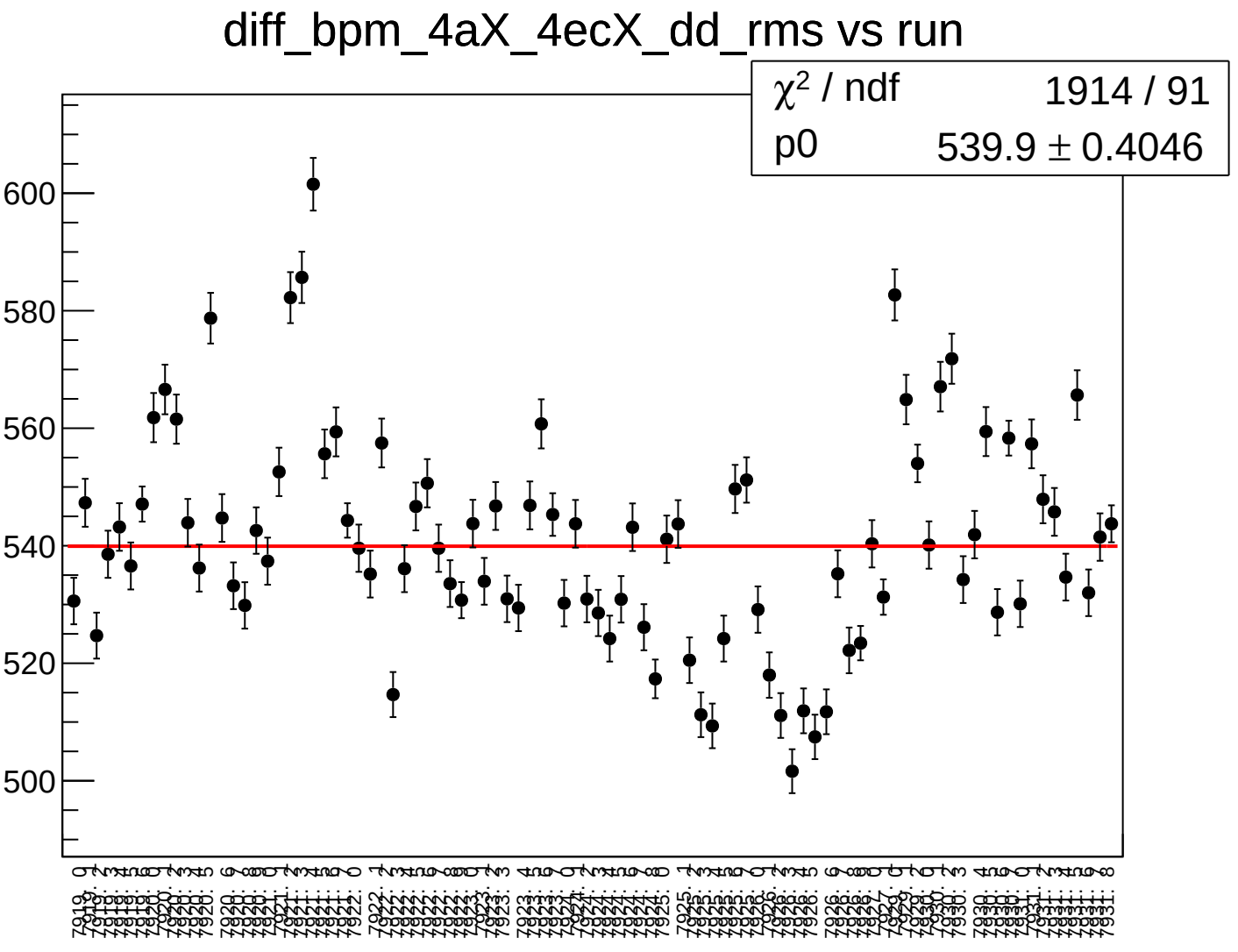

pull1D
Entries 92
Mean 0.007689
Std Dev 1.039

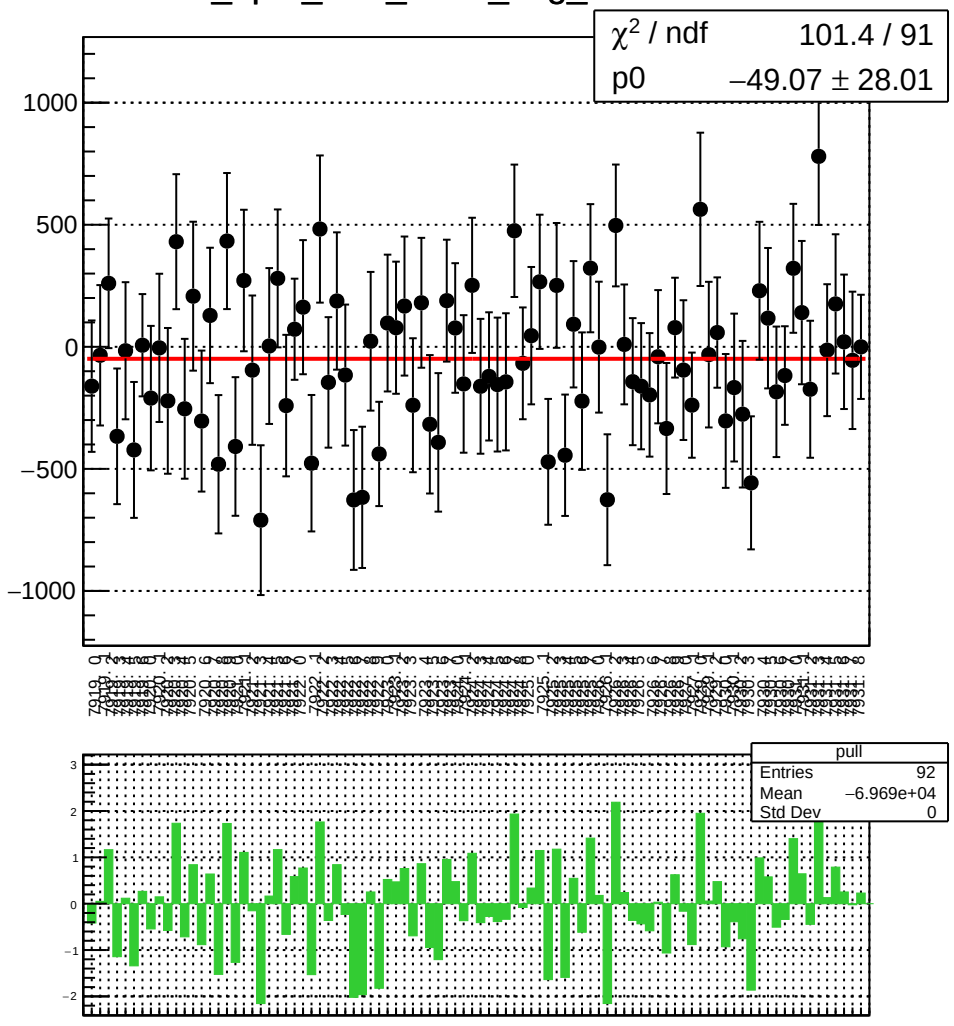

diff_bpm_4aX_4eX_dd_rms vs run
χ² / ndf 2734 / 91
p0 659 ± 0.4939
760
740
720
700
680
660
640
620
600

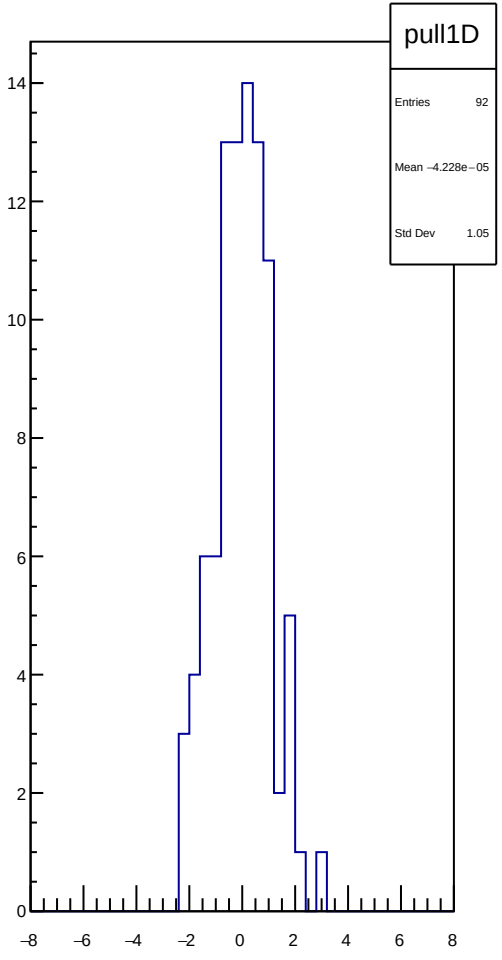

diff_bpm_4aX_4ecX_avg_mean vs run
χ² / ndf 101.4 / 91
p0 −50.62 ± 28.62
1000
500
0
−500
−1000
pull
Entries 92
Mean 1.586e+04
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.0001841
Std Dev 1.05
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

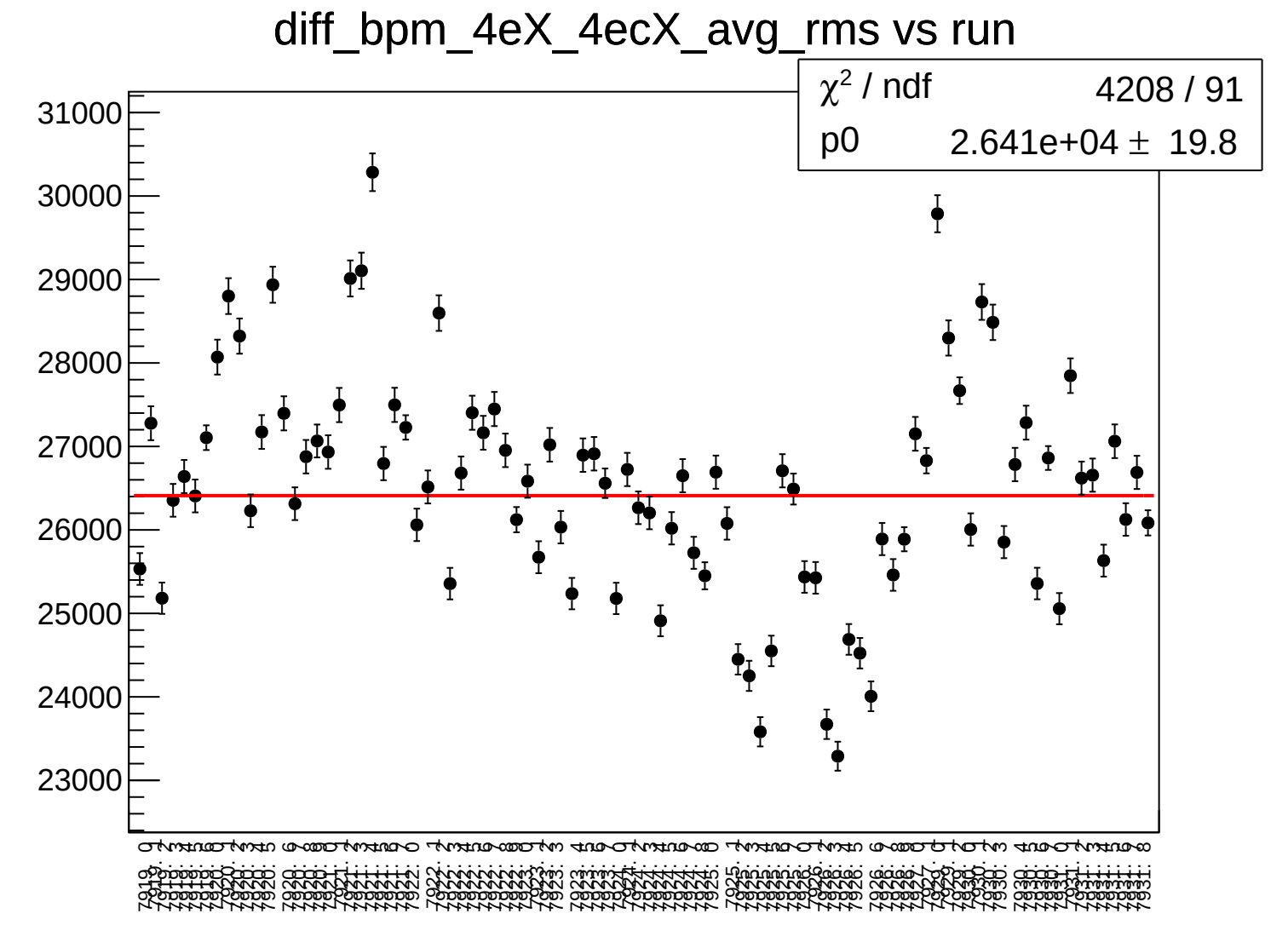

diff_bpm_4aX_4ecX_avg_rms vs run
χ² / ndf 4207 / 91
p0 2.699e+04 ± 20.24
31000
30000
29000
28000
27000
26000
25000
24000
23000

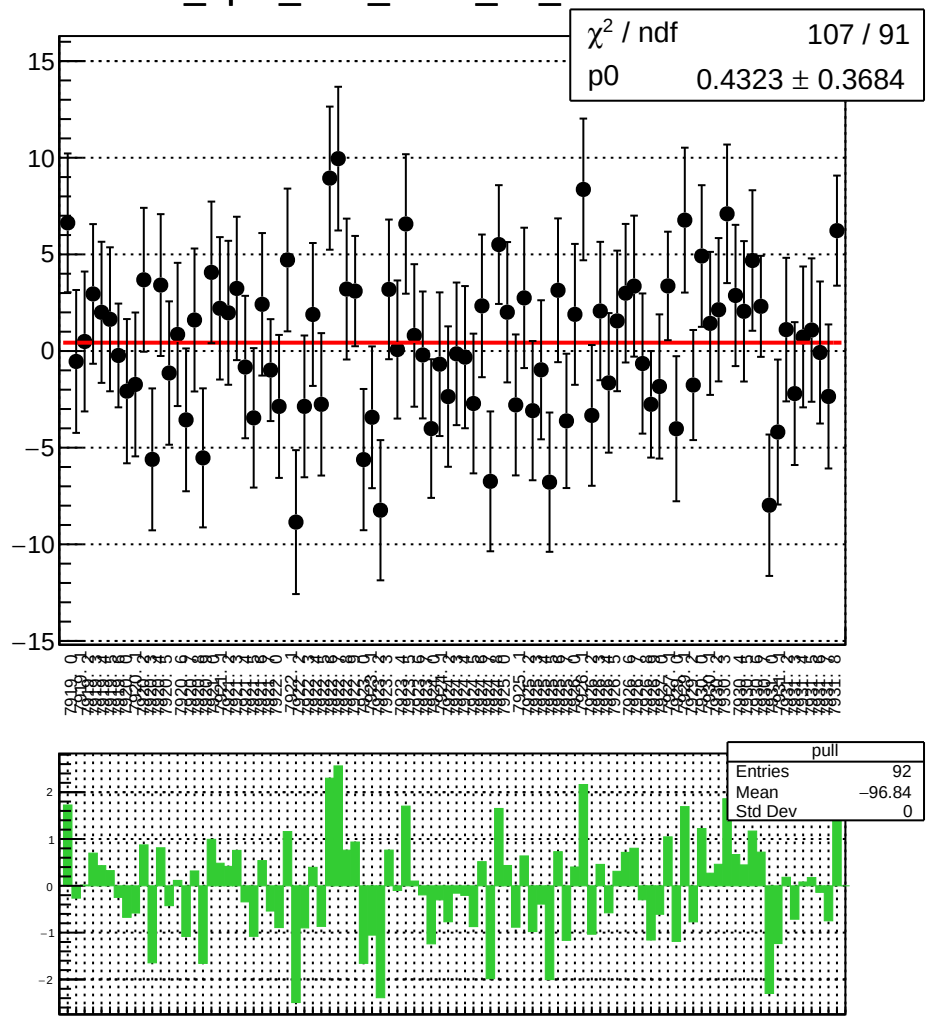

diff_bpm_4aX_4ecX_dd_mean vs run
χ² / ndf 70.51 / 91
p0 −1.09 ± 0.5722
pull
Entries 92
Mean 748.9
Std Dev 0
pull1D
Entries 92
Mean 0.003003
Std Dev 0.8754

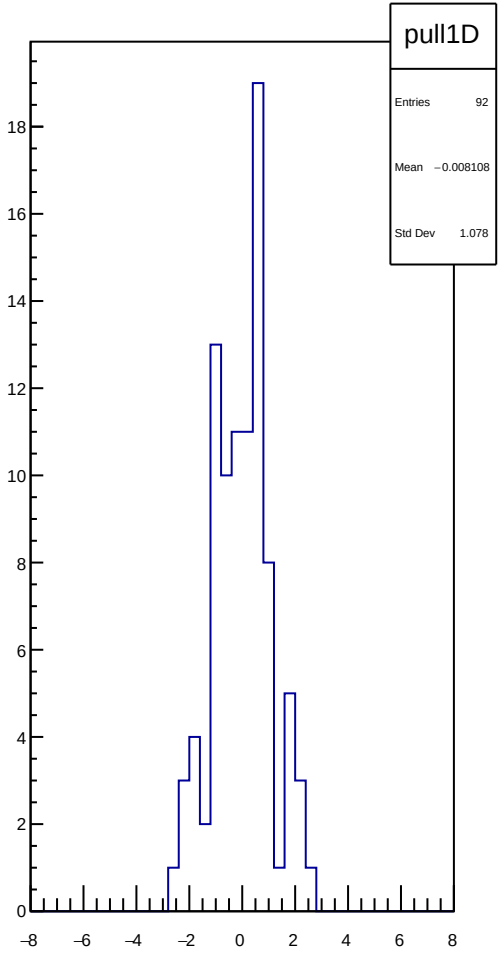

diff_bpm_4aX_4ecX_dd_rms vs run
χ² / ndf 1914 / 91
p0 539.9 ± 0.4046
600
580
560
540
520
500

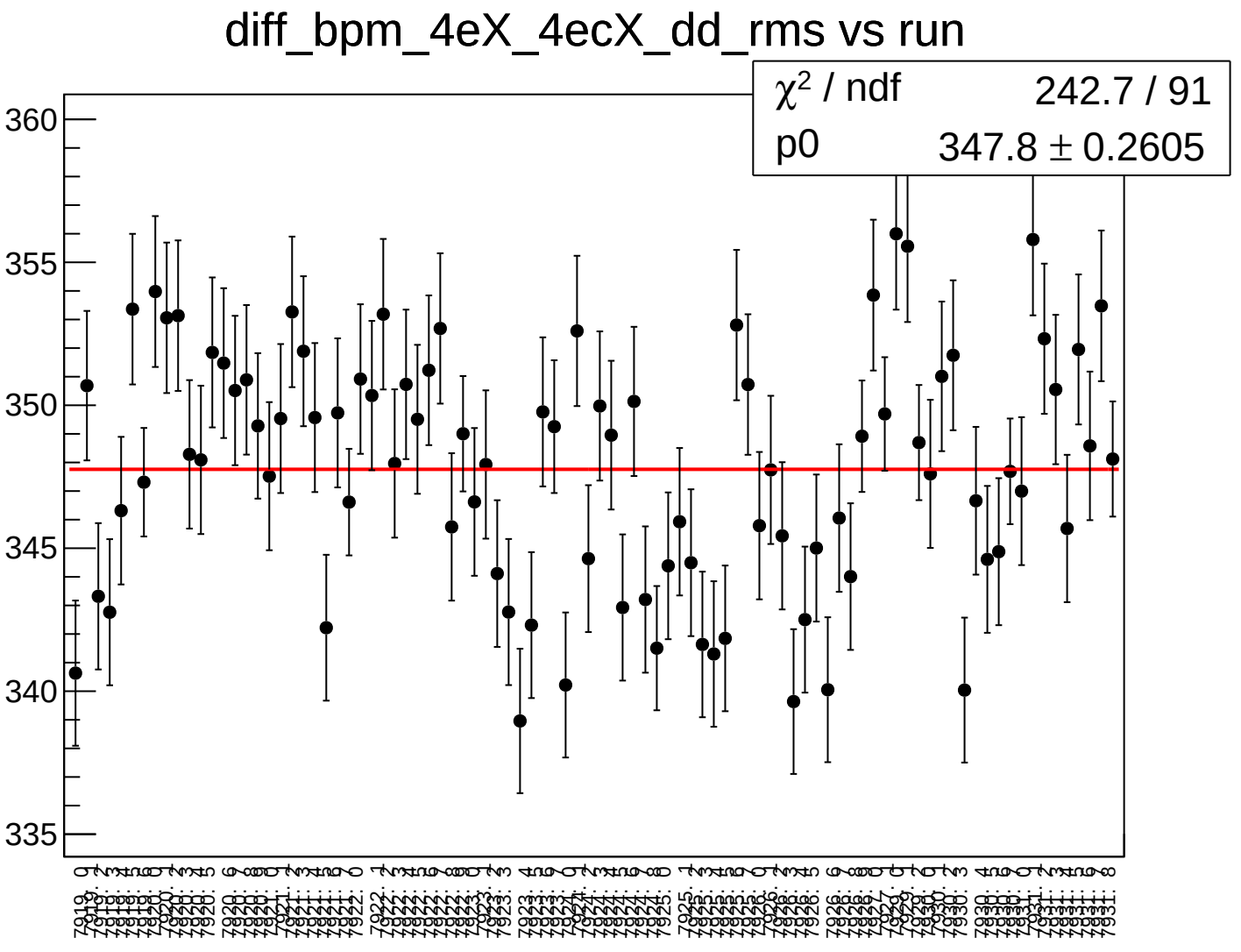

diff_bpm_4eX_4ecX_avg_mean vs run
χ² / ndf 101.4 / 91
p0 −49.07 ± 28.01
1000
500
0
−500
−1000
pull
Entries 92
Mean −6.969e+04
Std Dev 0
3
2
1
0
−1
−2

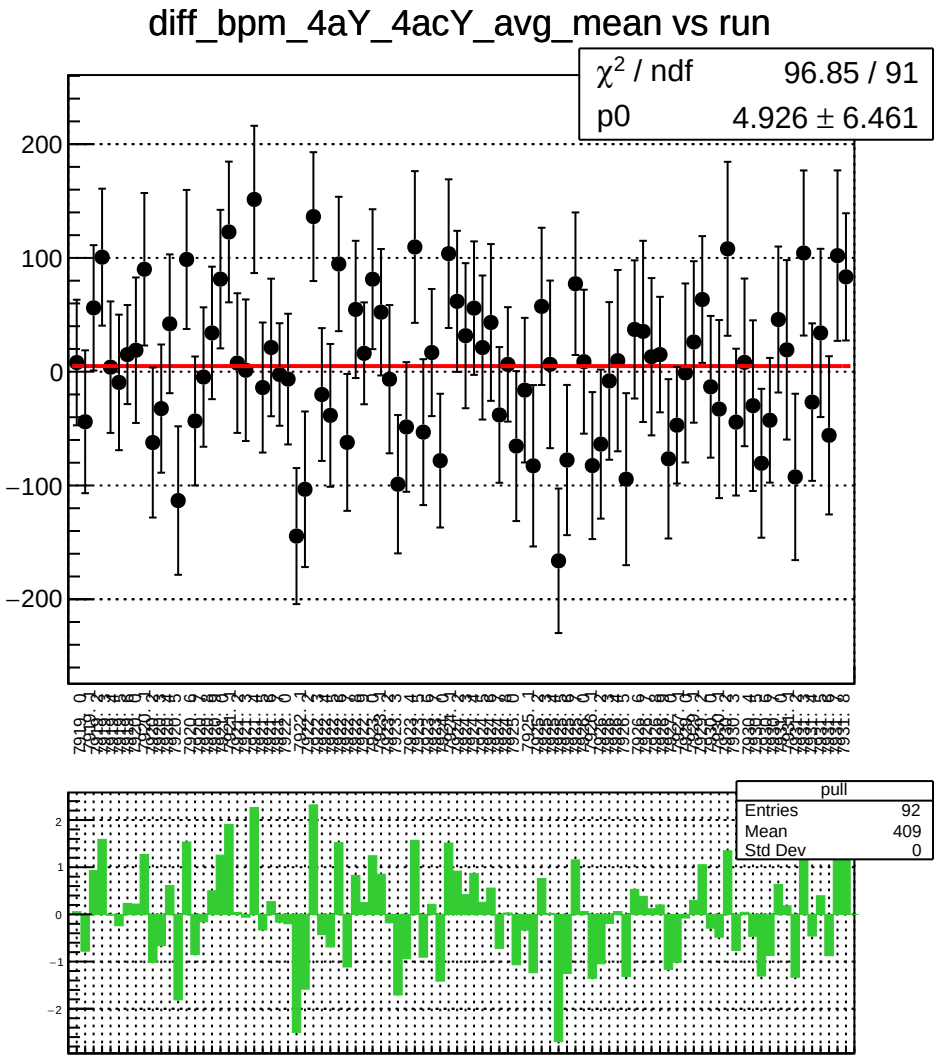

pull1D
Entries 92
Mean −4.228e−05
Std Dev 1.05
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

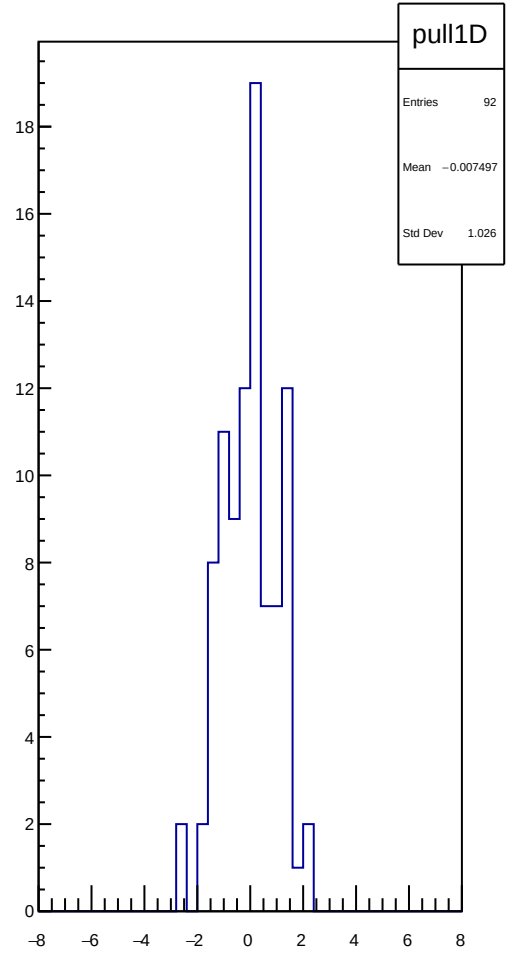

diff_bpm_4eX_4ecX_avg_rms vs run
χ² / ndf 4208 / 91
p0 2.641e+04 ± 19.8
31000
30000
29000
28000
27000
26000
25000
24000
23000

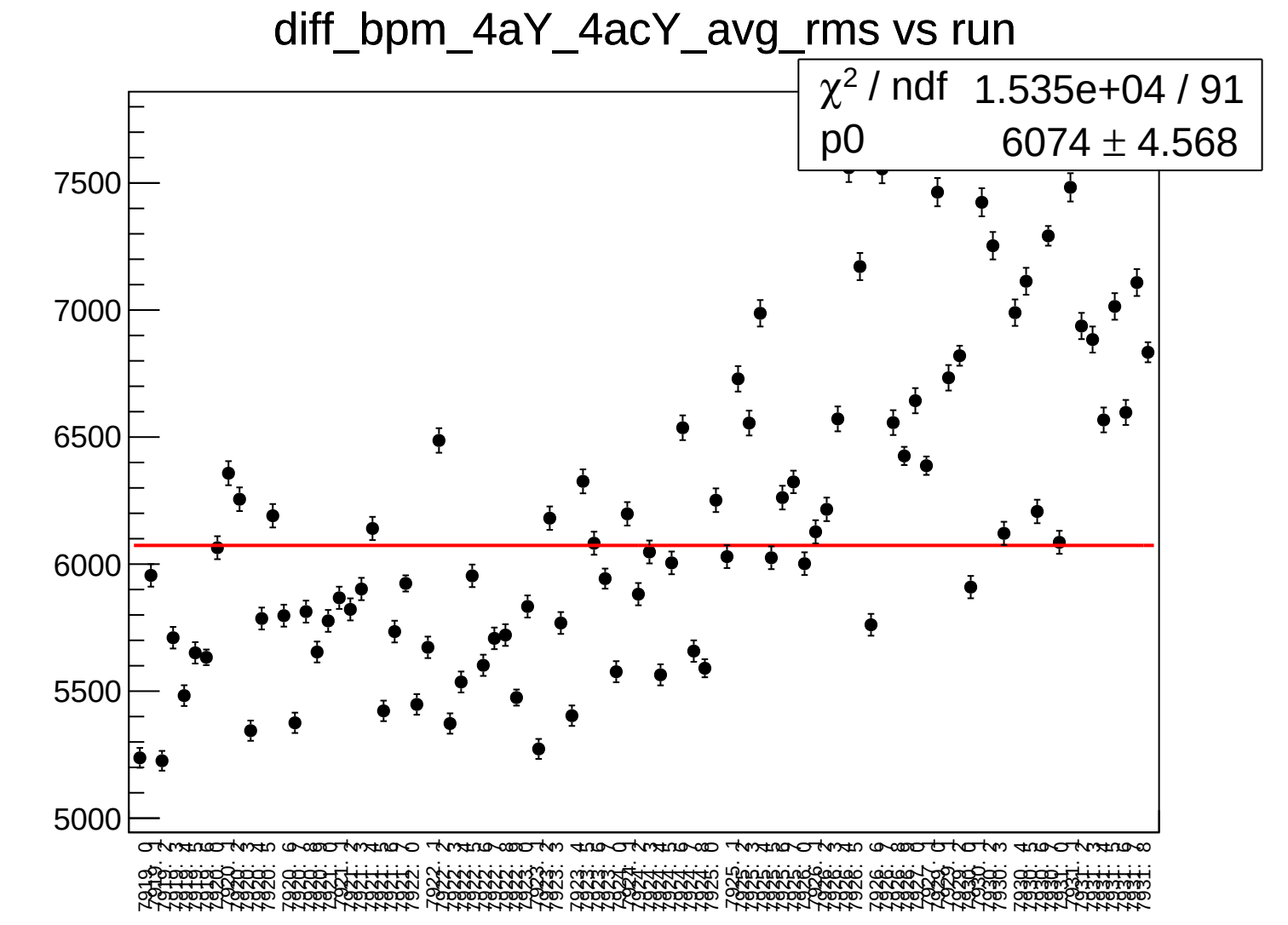

diff_bpm_4eX_4ecX_dd_mean vs run
χ² / ndf 107 / 91
p0 0.4323 ± 0.3684
pull
Entries 92
Mean −96.84
Std Dev 0

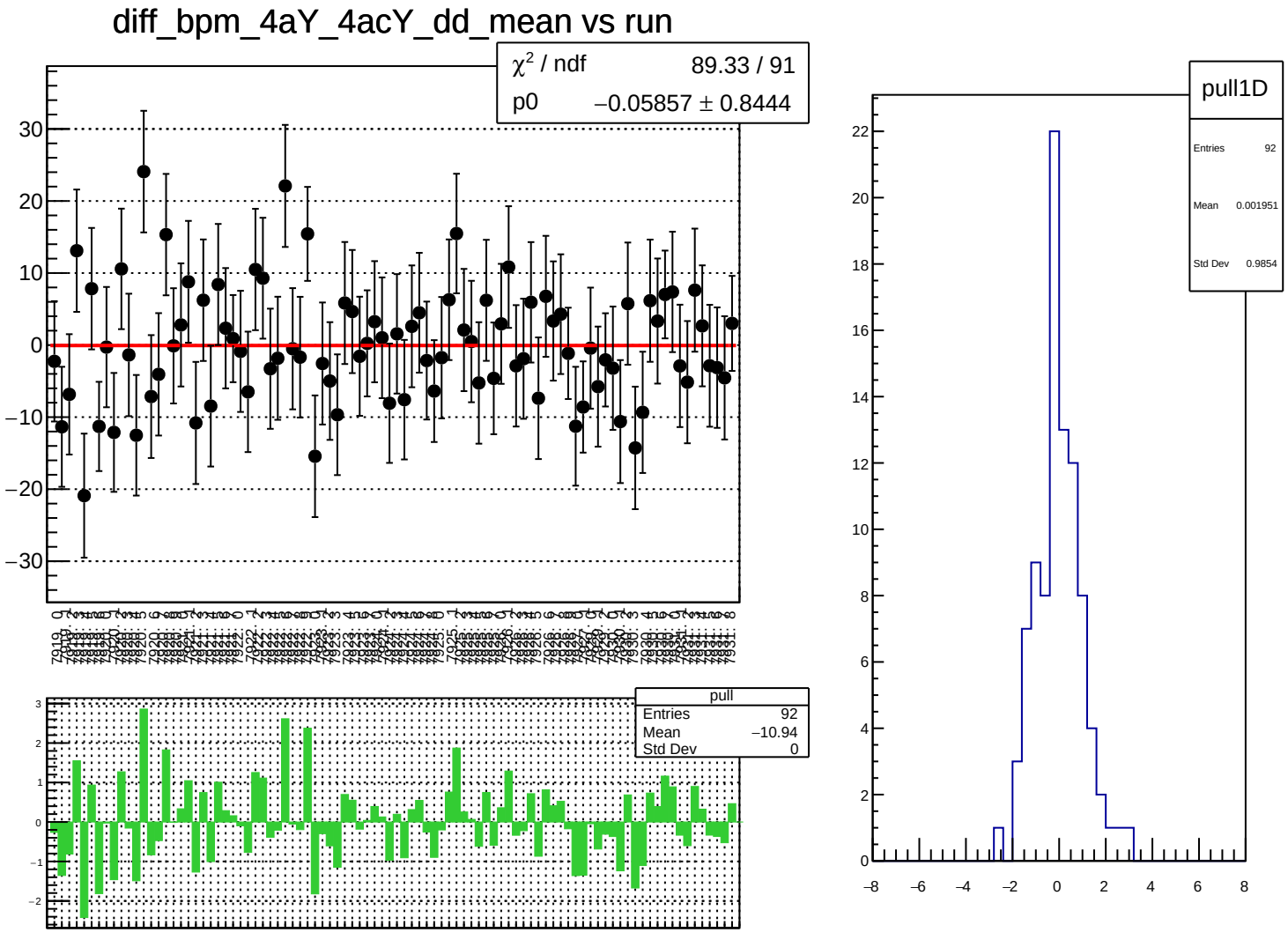

pull1D
Entries 92
Mean −0.008108
Std Dev 1.078

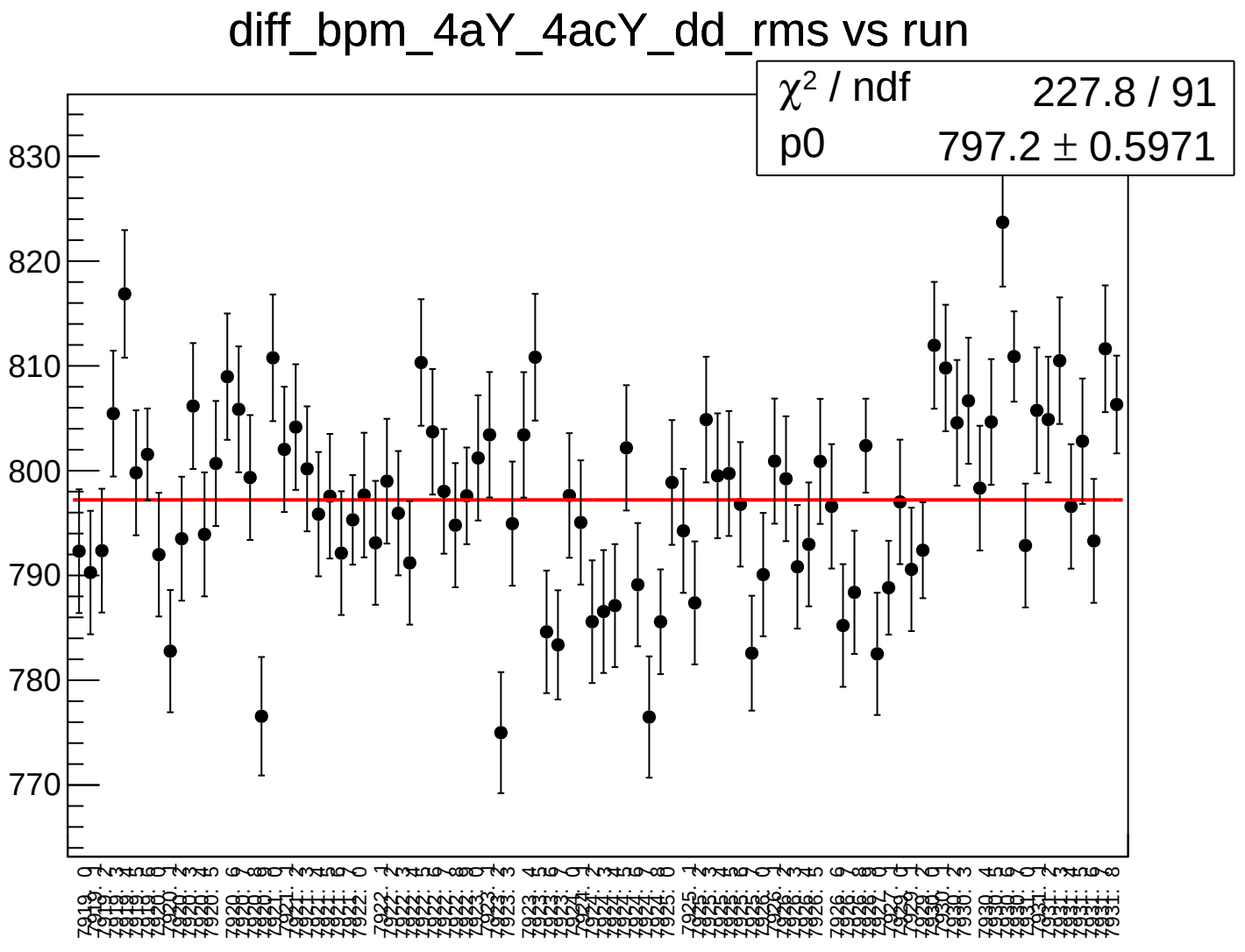

diff_bpm_4eX_4ecX_dd_rms vs run
χ² / ndf 242.7 / 91
p0 347.8 ± 0.2605
360
355
350
345
340
335

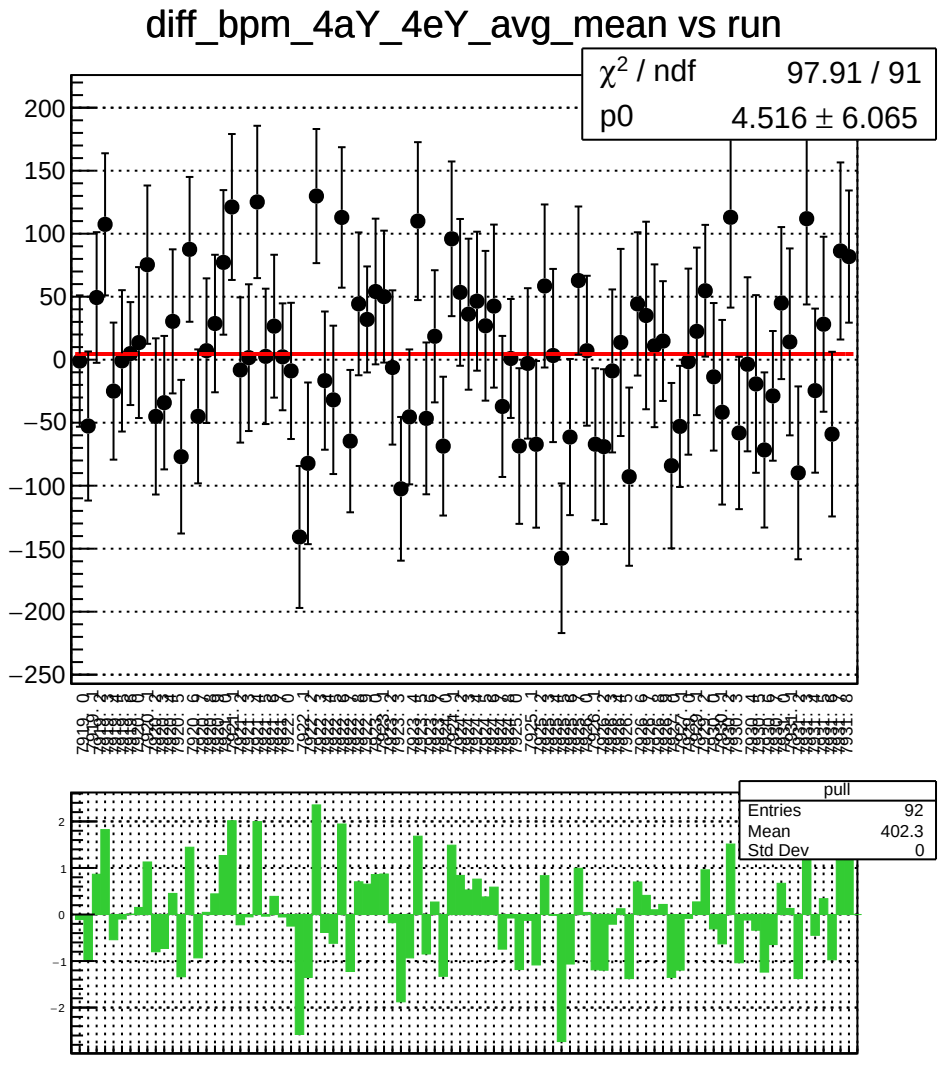

diff_bpm_4aY_4acY_avg_mean vs run
χ² / ndf 96.85 / 91
p0 4.926 ± 6.461
200
100
0
−100
−200
pull
Entries 92
Mean 409
Std Dev 0
2
1
0
−1
−2

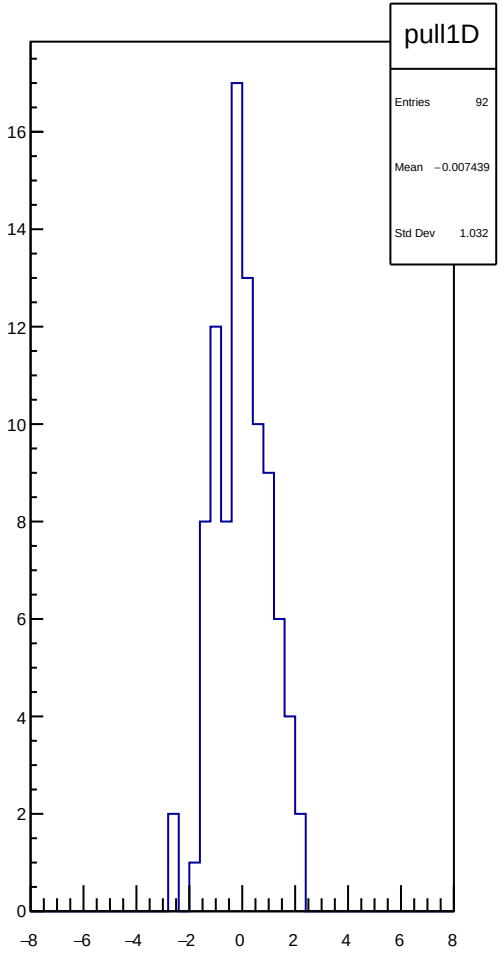

pull1D
Entries 92
Mean −0.007497
Std Dev 1.026
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

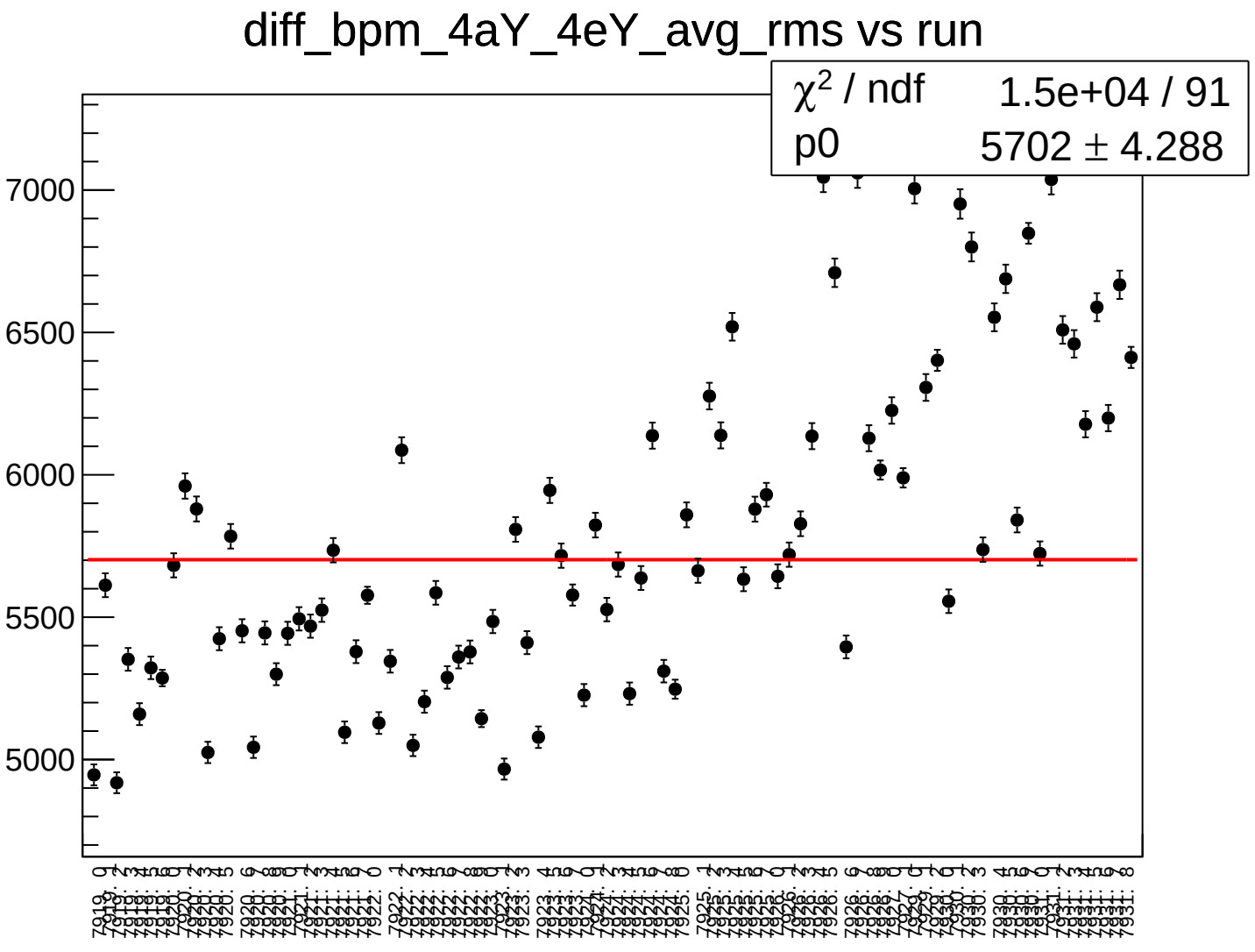

diff_bpm_4aY_4acY_avg_rms vs run
χ² / ndf 1.535e+04 / 91
p0 6074 ± 4.568
7500
7000
6500
6000
5500
5000

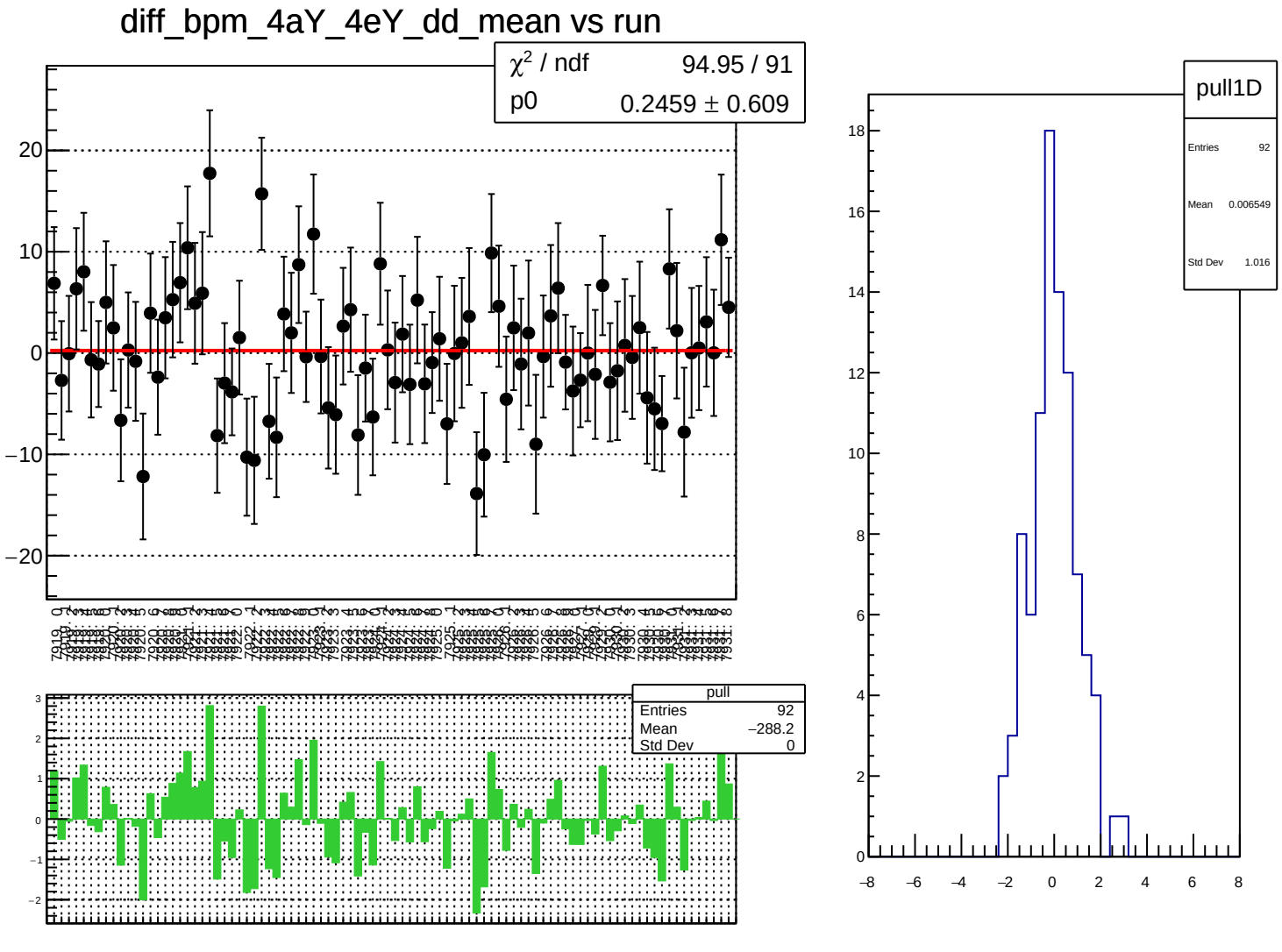

diff_bpm_4aY_4acY_dd_mean vs run
χ² / ndf 89.33 / 91
p0 −0.05857 ± 0.8444
pull
Entries 92
Mean −10.94
Std Dev 0
pull1D
Entries 92
Mean 0.001951
Std Dev 0.9854

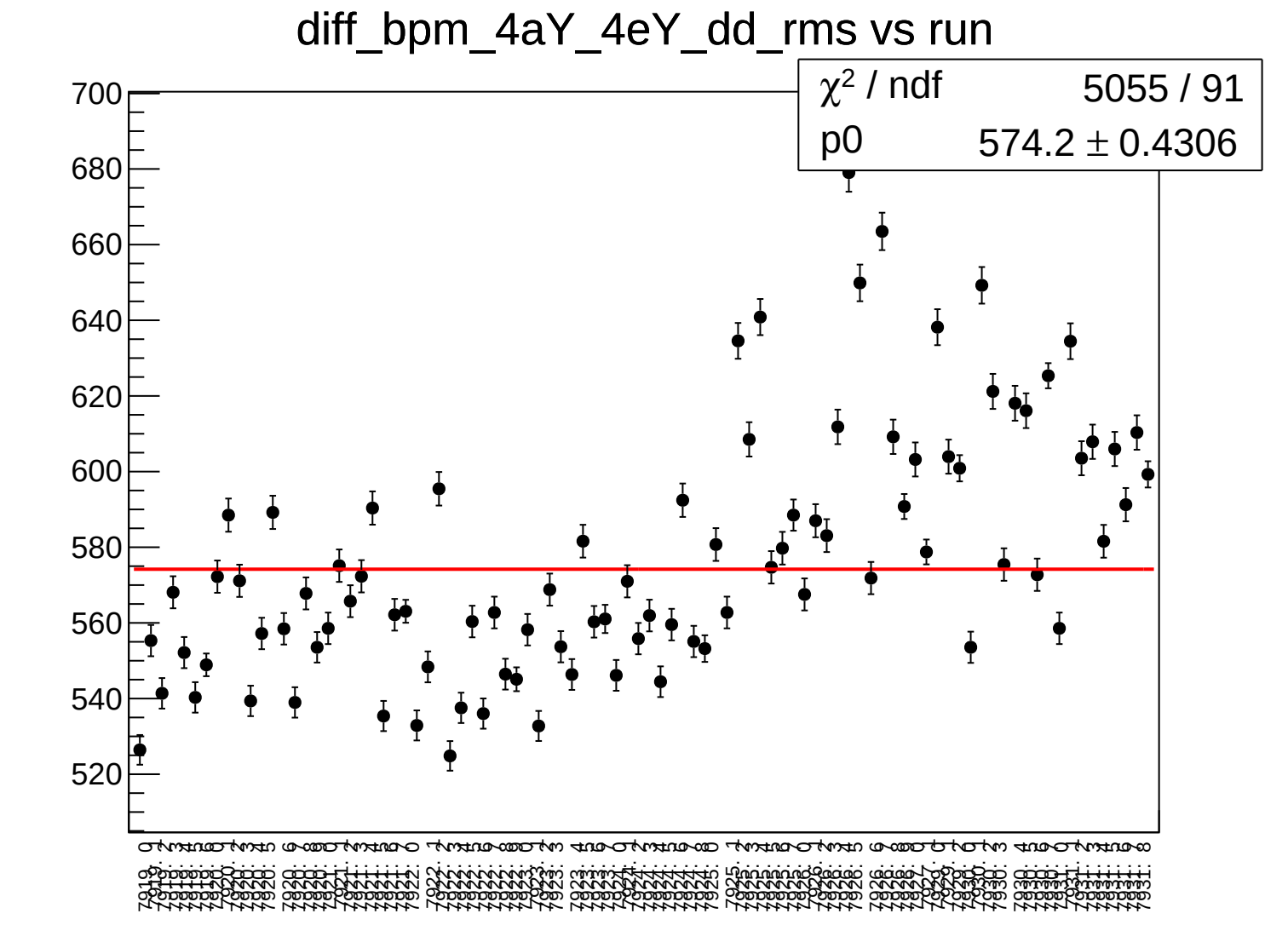

diff_bpm_4aY_4acY_dd_rms vs run
χ² / ndf 227.8 / 91
p0 797.2 ± 0.5971
830
820
810
800
790
780
770

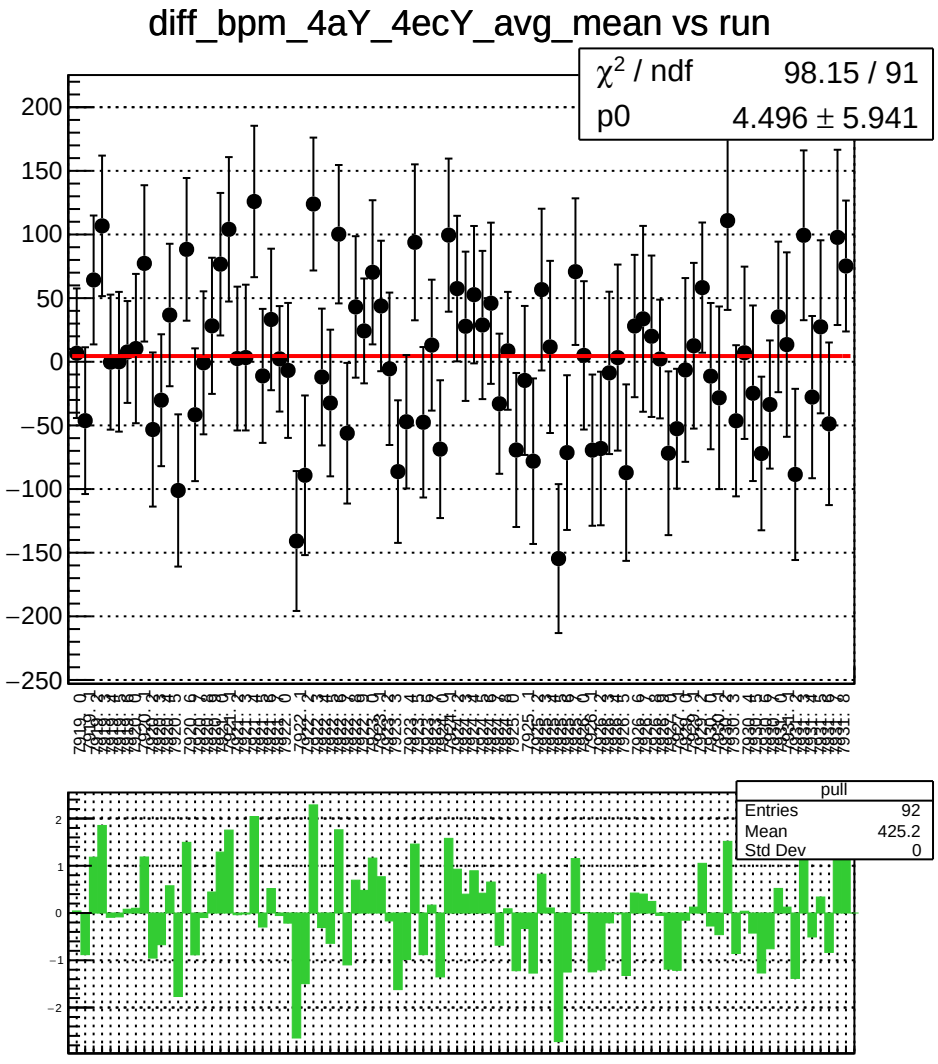

diff_bpm_4aY_4eY_avg_mean vs run
χ² / ndf 97.91 / 91
p0 4.516 ± 6.065
pull
Entries 92
Mean 402.3
Std Dev 0

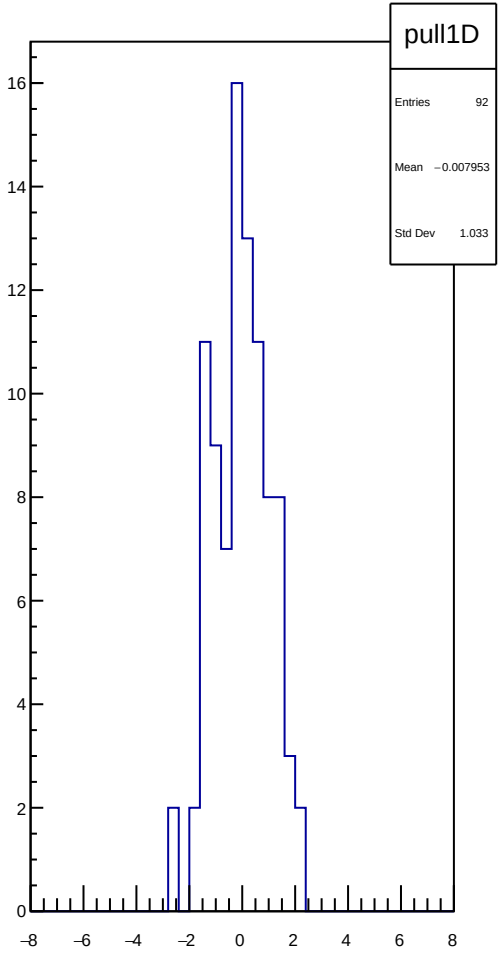

pull1D
Entries 92
Mean −0.007439
Std Dev 1.032

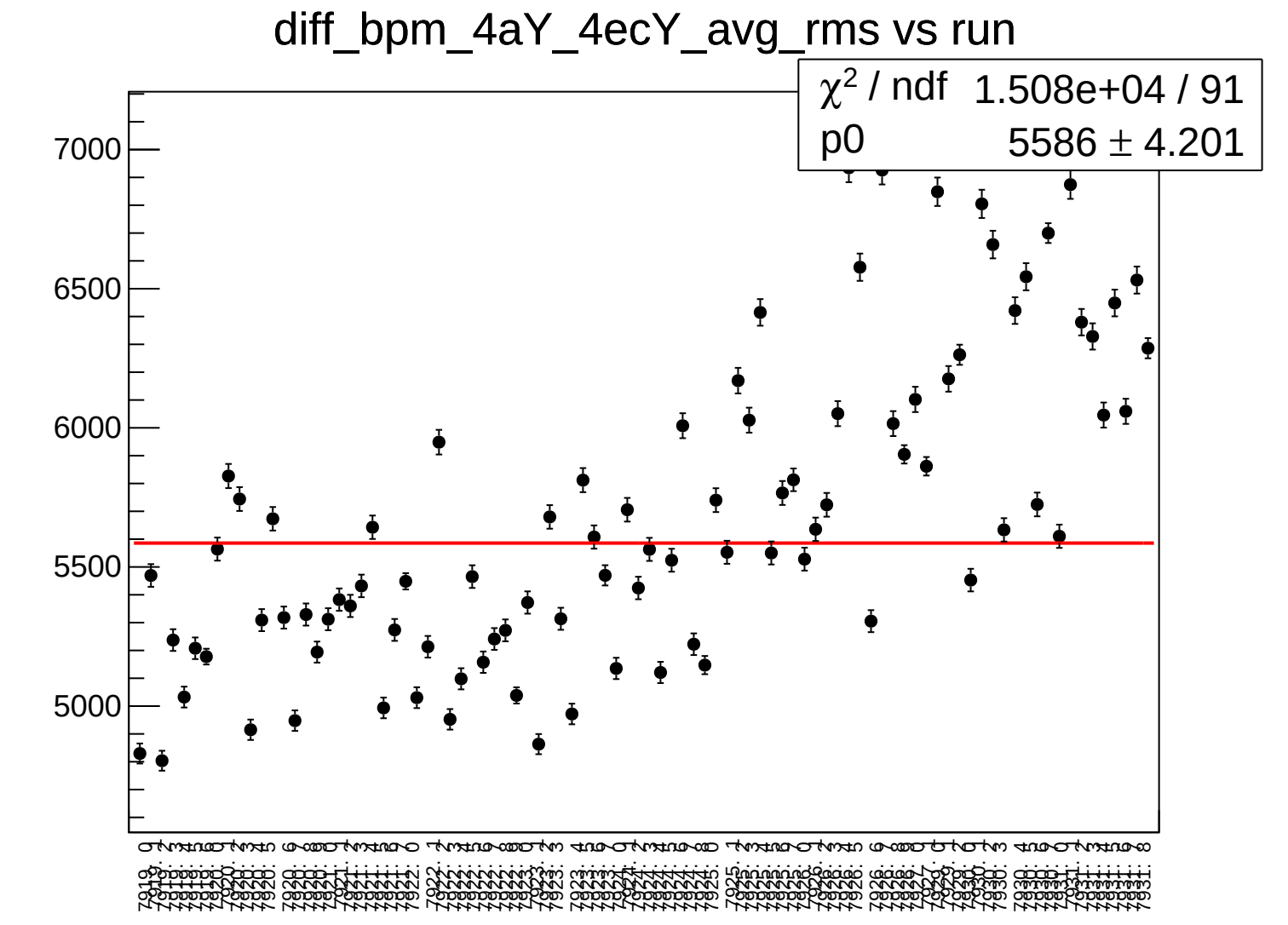

diff_bpm_4aY_4eY_avg_rms vs run
χ² / ndf 1.5e+04 / 91
p0 5702 ± 4.288
7000
6500
6000
5500
5000

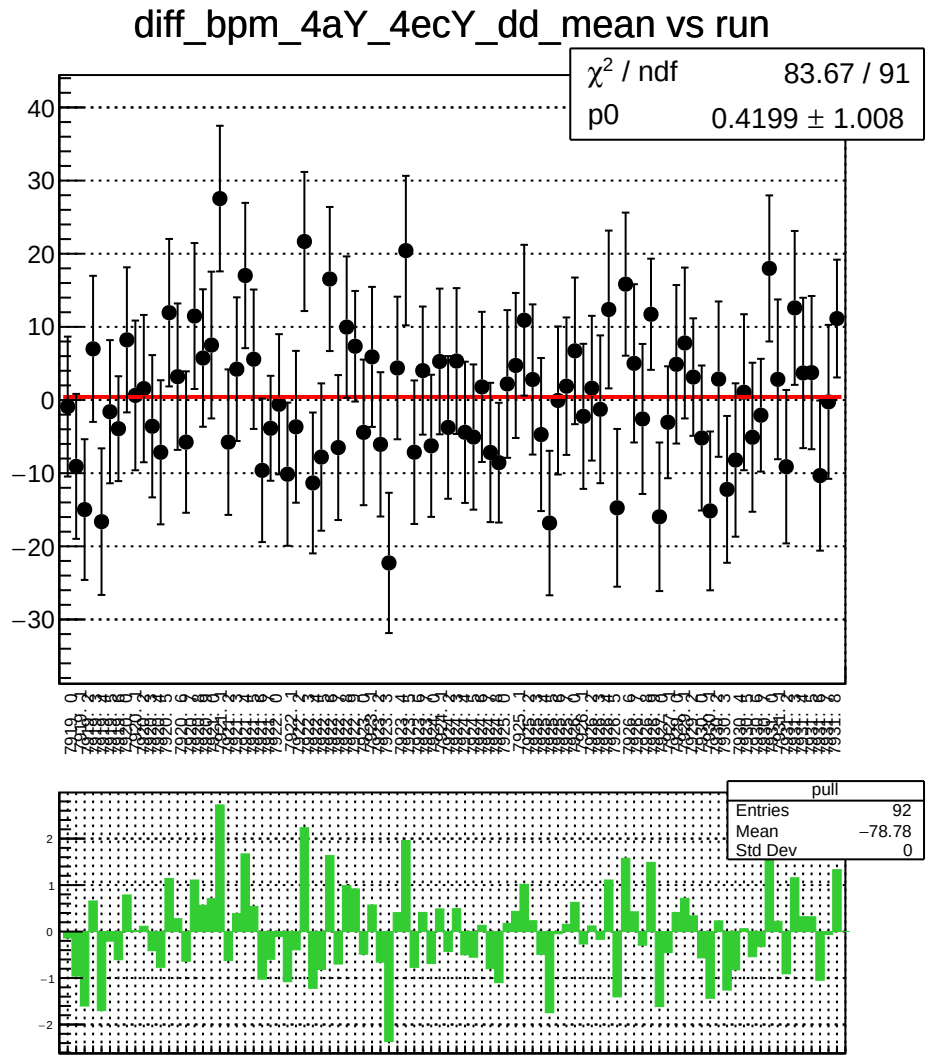

diff_bpm_4aY_4eY_dd_mean vs run
χ² / ndf 94.95 / 91
p0 0.2459 ± 0.609
pull
Entries 92
Mean −288.2
Std Dev 0
pull1D
Entries 92
Mean 0.006549
Std Dev 1.016

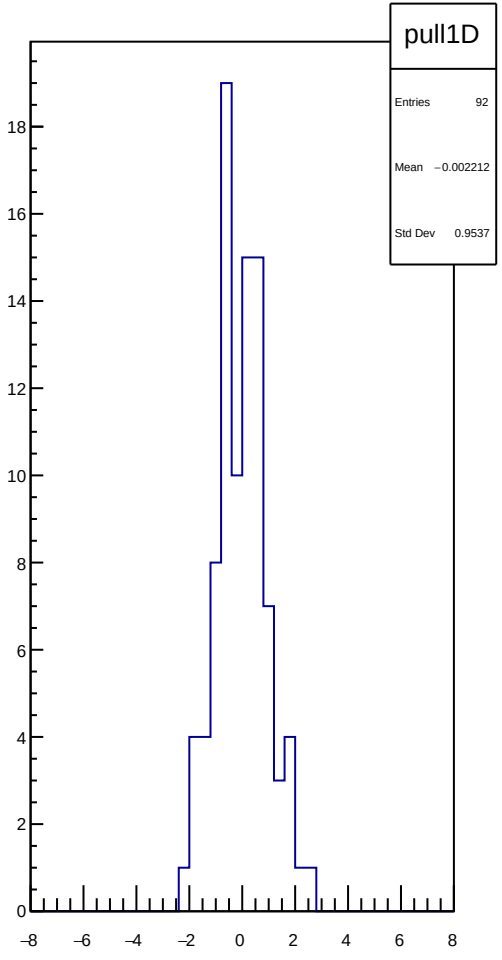

diff_bpm_4aY_4eY_dd_rms vs run
χ² / ndf 5055 / 91
p0 574.2 ± 0.4306
700
680
660
640
620
600
580
560
540
520

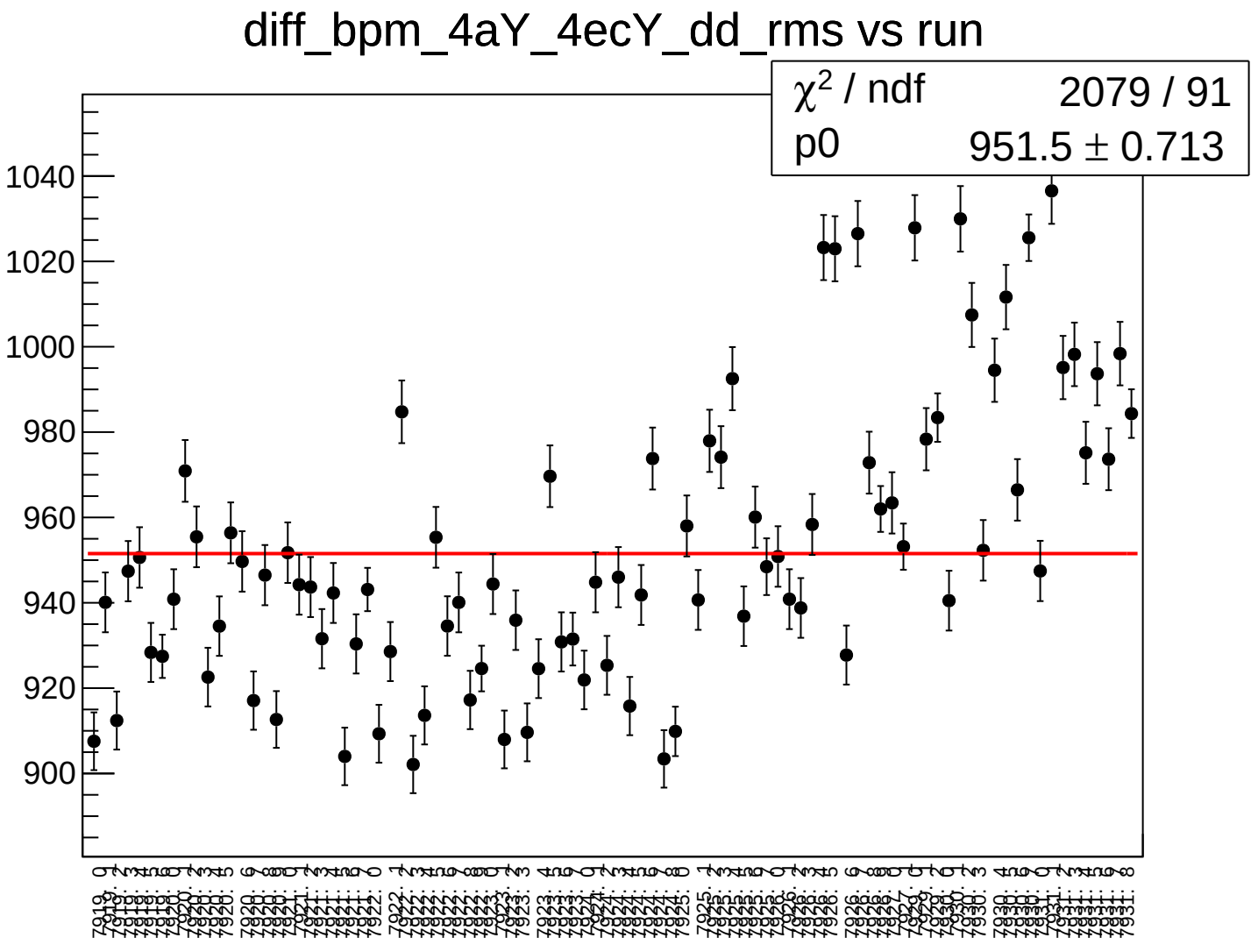

diff_bpm_4aY_4ecY_avg_mean vs run
χ^2 / ndf 98.15 / 91
p0 4.496 ± 5.941
pull
Entries 92
Mean 425.2
Std Dev 0

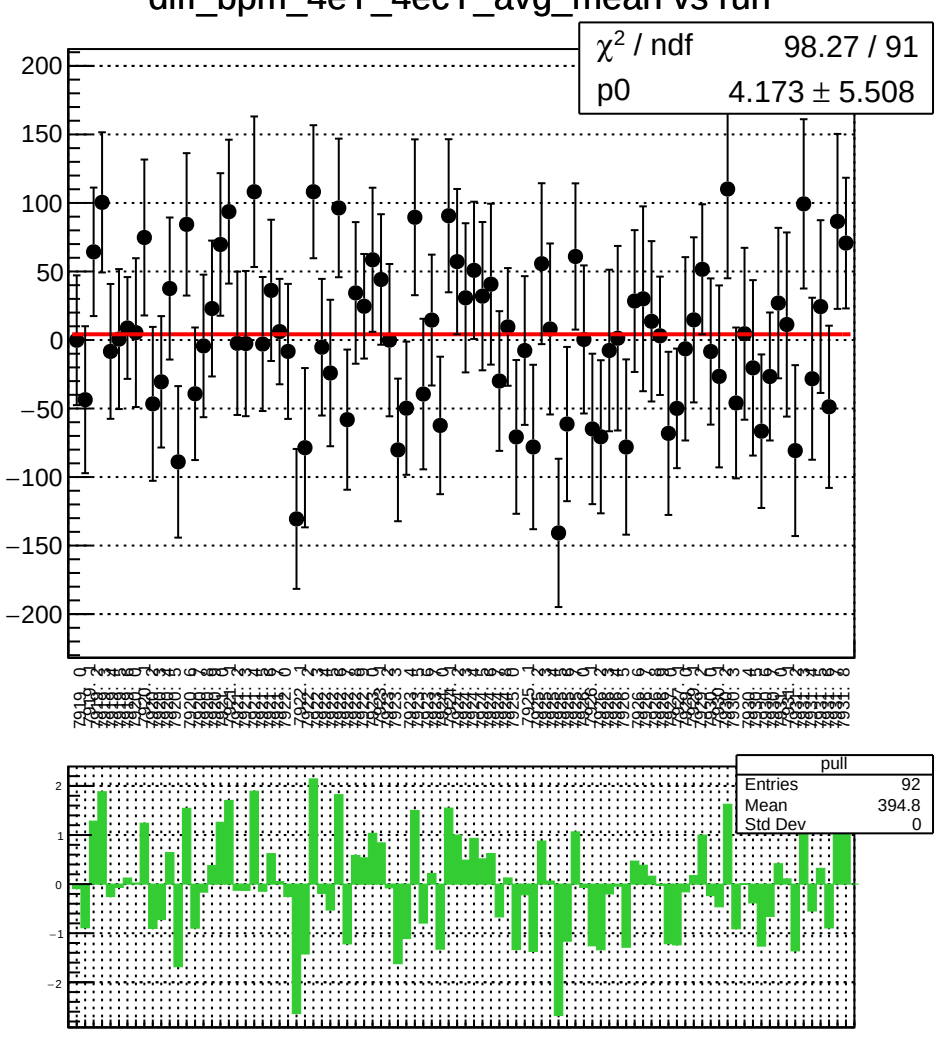

pull1D
Entries 92
Mean −0.007953
Std Dev 1.033

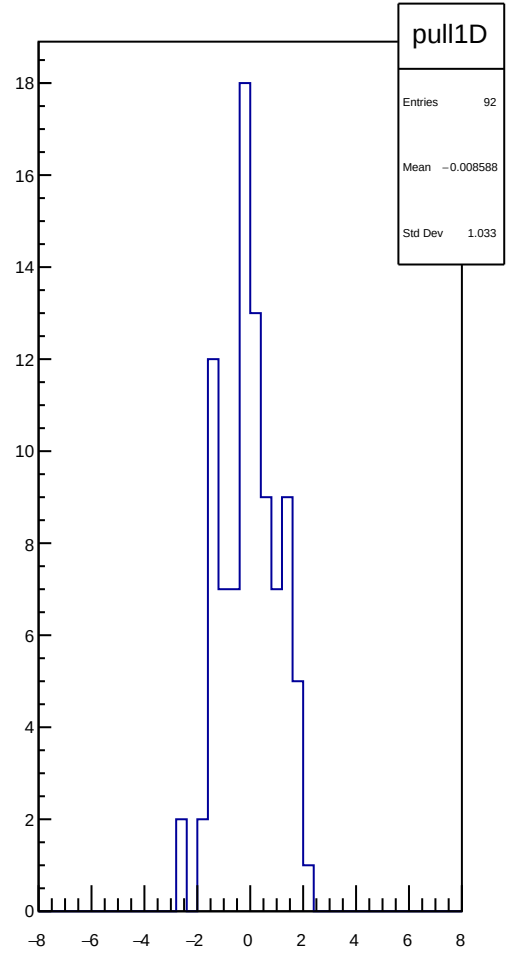

diff_bpm_4aY_4ecY_avg_rms vs run
χ² / ndf 1.508e+04 / 91
p0 5586 ± 4.201
7000
6500
6000
5500
5000

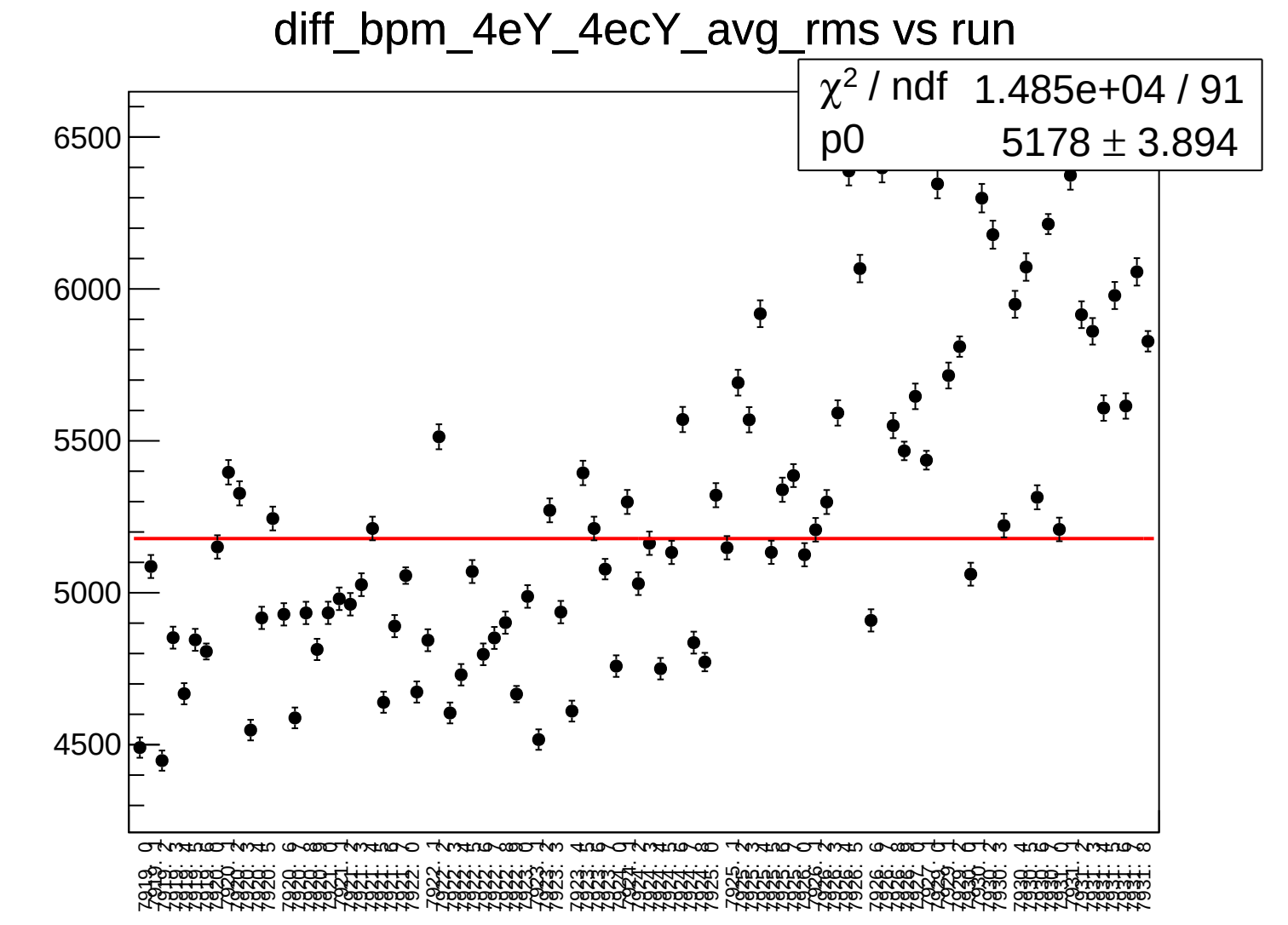

diff_bpm_4aY_4ecY_dd_mean vs run
χ² / ndf 83.67 / 91
p0 0.4199 ± 1.008
pull
Entries 92
Mean −78.78
Std Dev 0

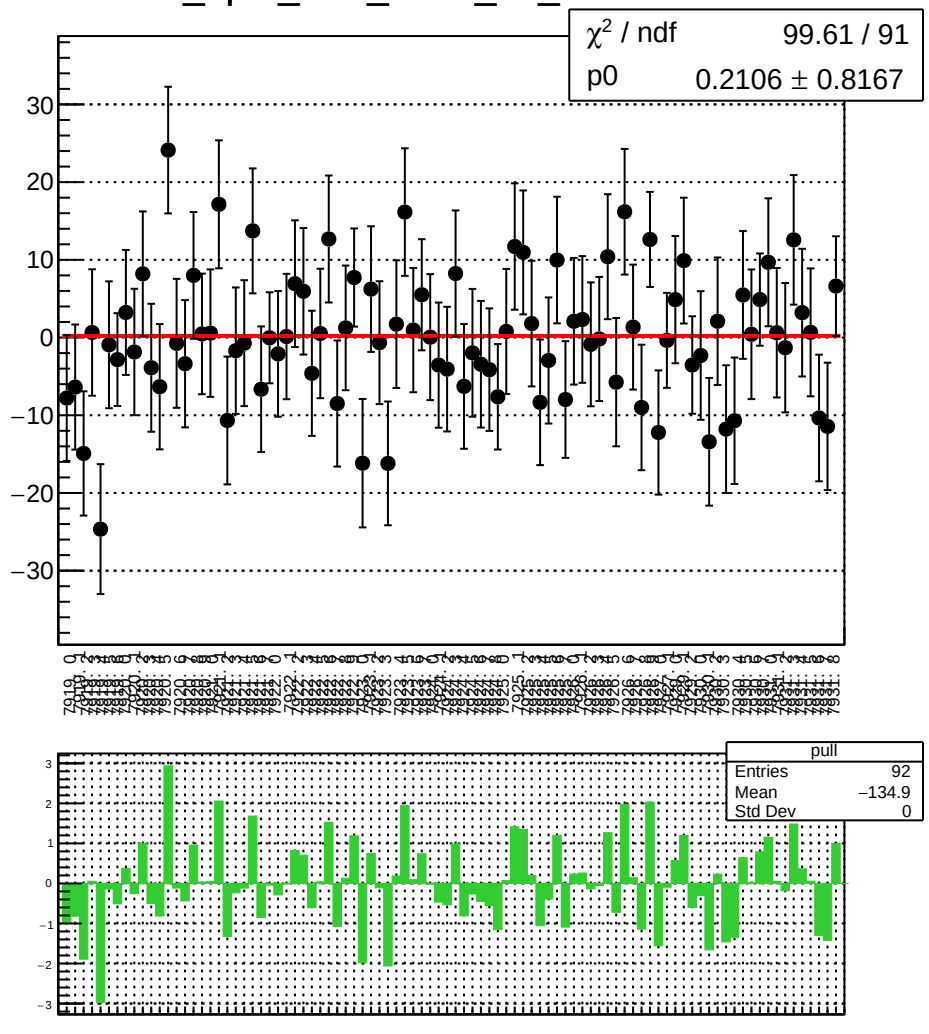

pull1D
Entries 92
Mean −0.002212
Std Dev 0.9537

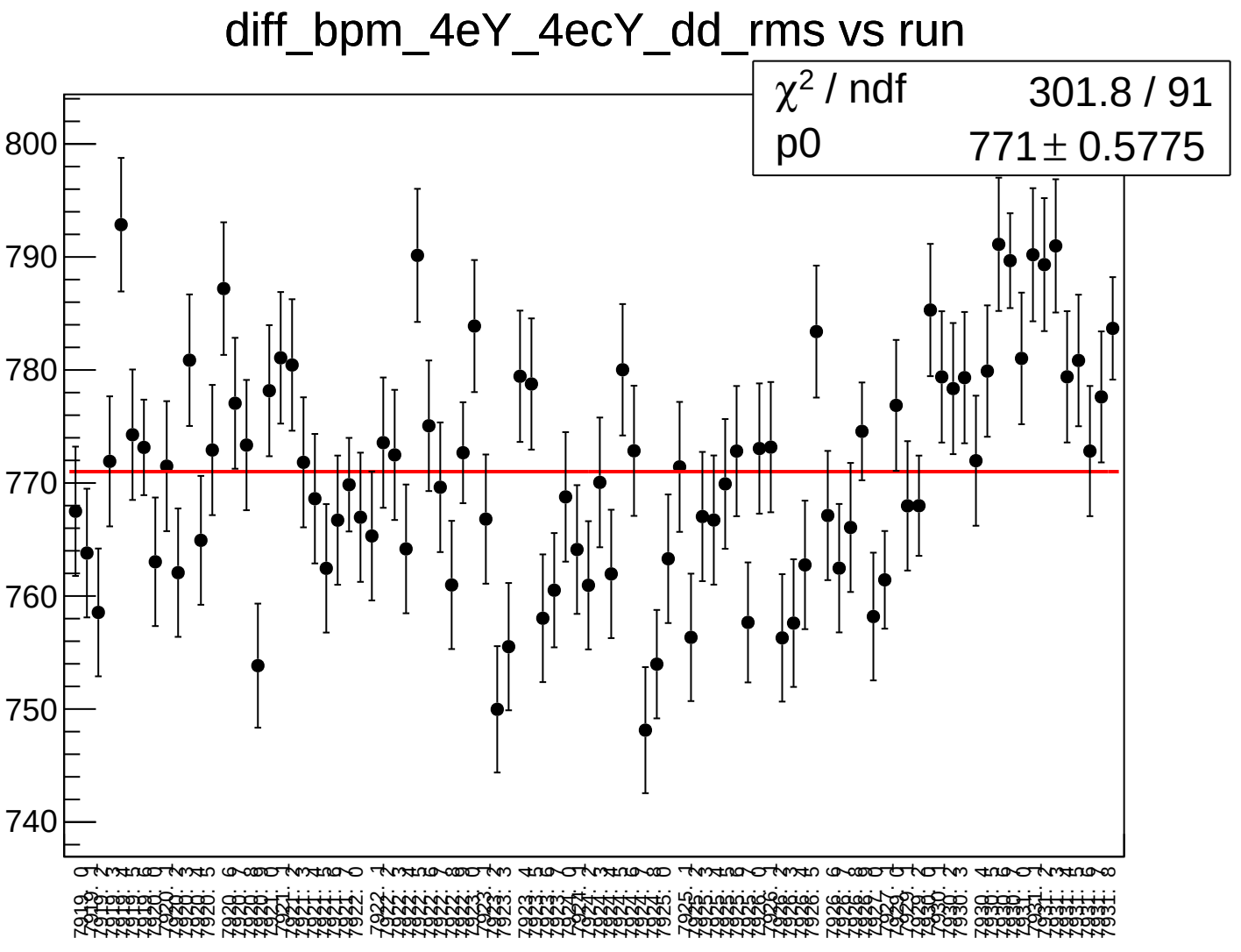

diff_bpm_4aY_4ecY_dd_rms vs run
χ² / ndf 2079 / 91
p0 951.5 ± 0.713
1040
1020
1000
980
960
940
920
900

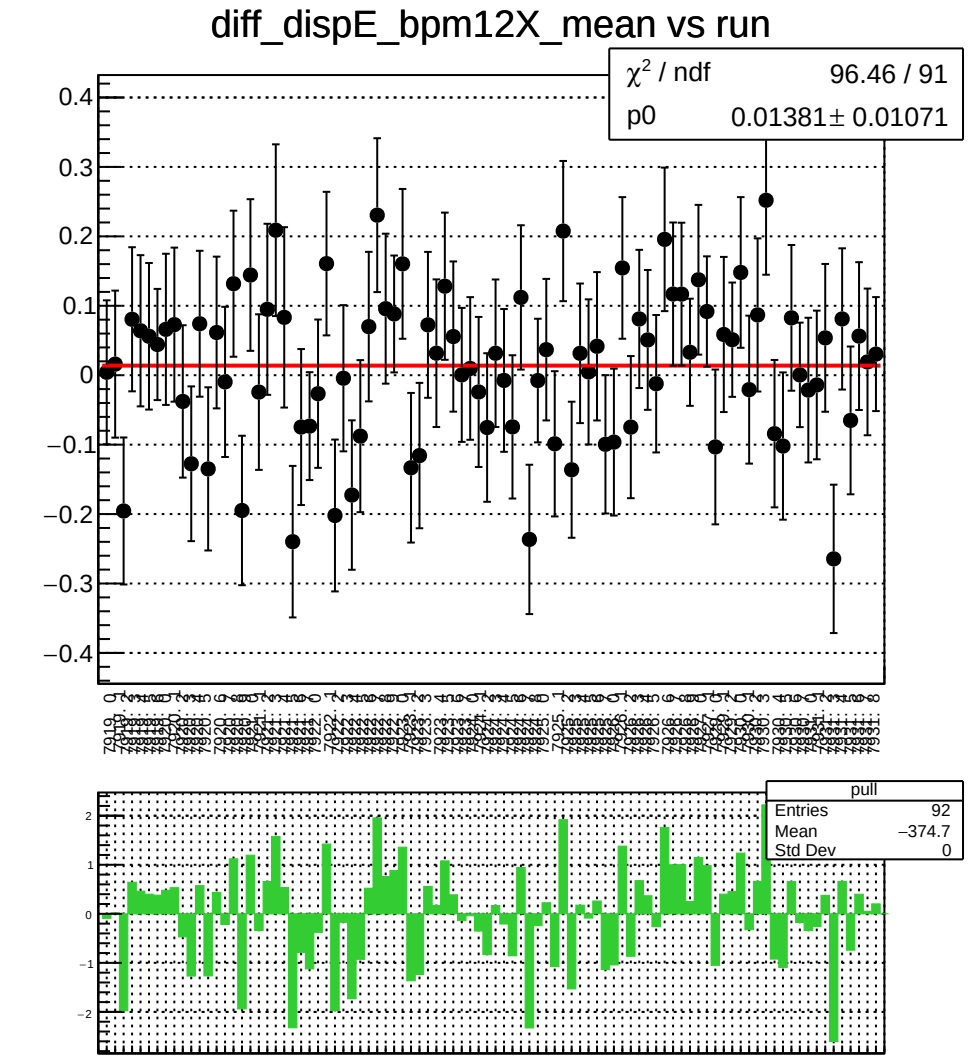

diff_bpm_4eY_4ecY_avg_mean vs run
χ² / ndf 98.27 / 91
p0 4.173 ± 5.508
pull
Entries 92
Mean 394.8
Std Dev 0

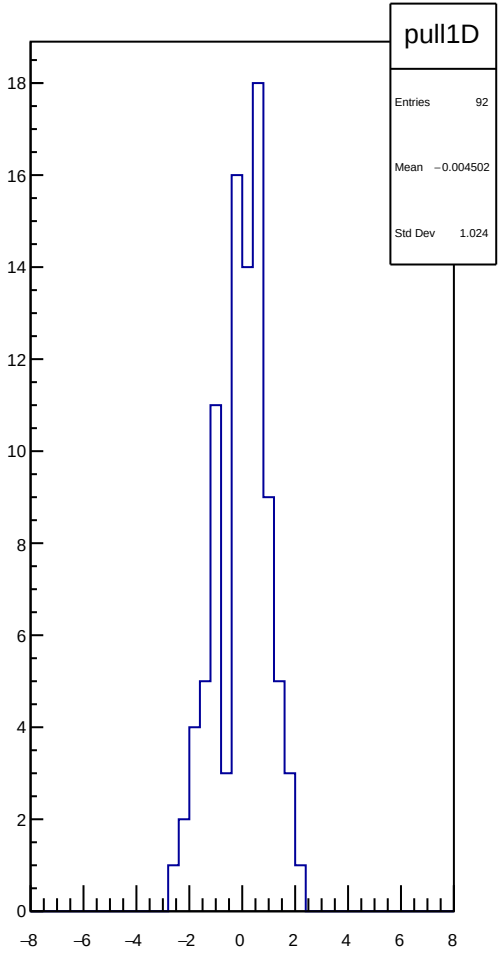

pull1D
Entries 92
Mean −0.008588
Std Dev 1.033

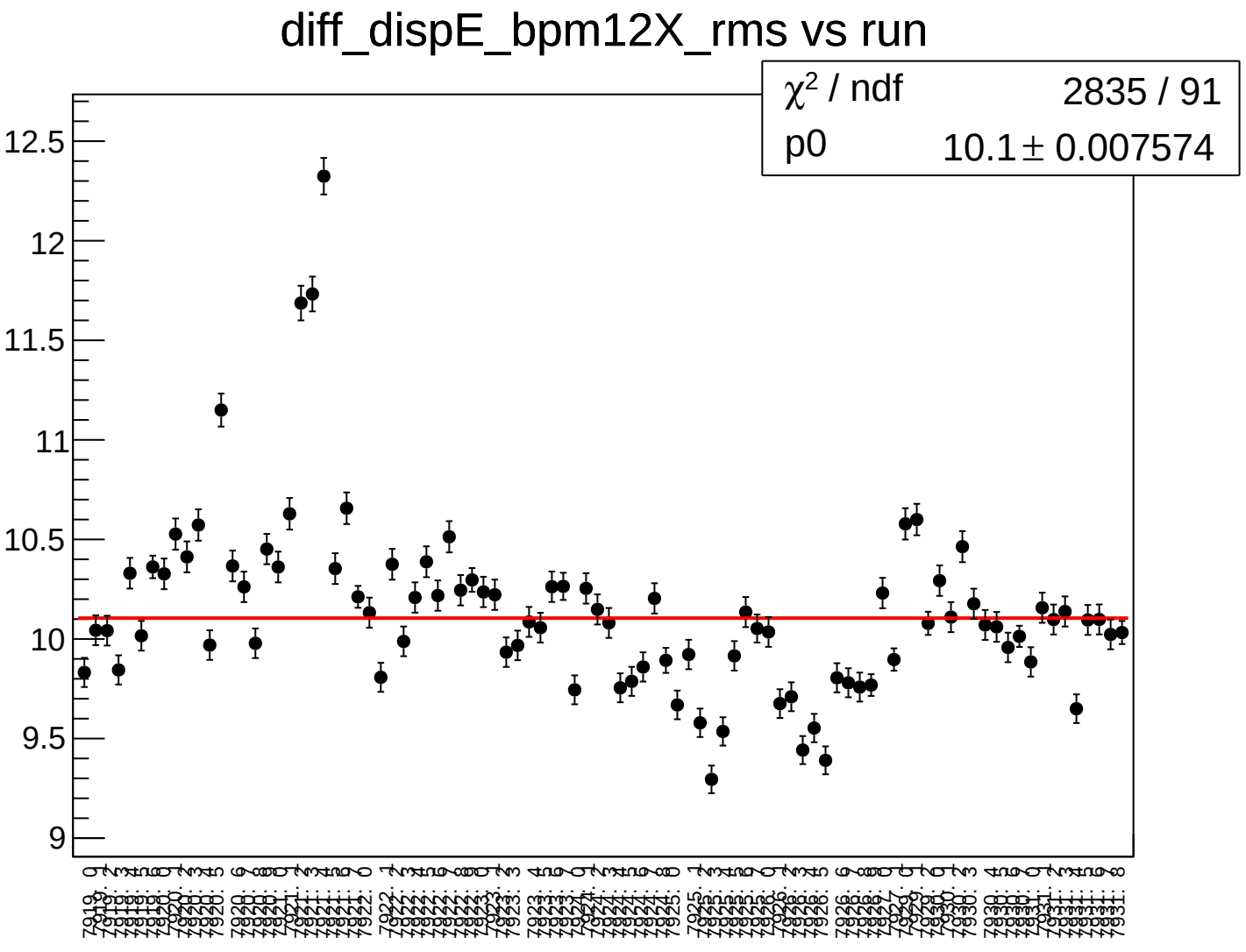

diff_bpm_4eY_4ecY_avg_rms vs run
χ² / ndf 1.485e+04 / 91
p0 5178 ± 3.894
6500
6000
5500
5000
4500

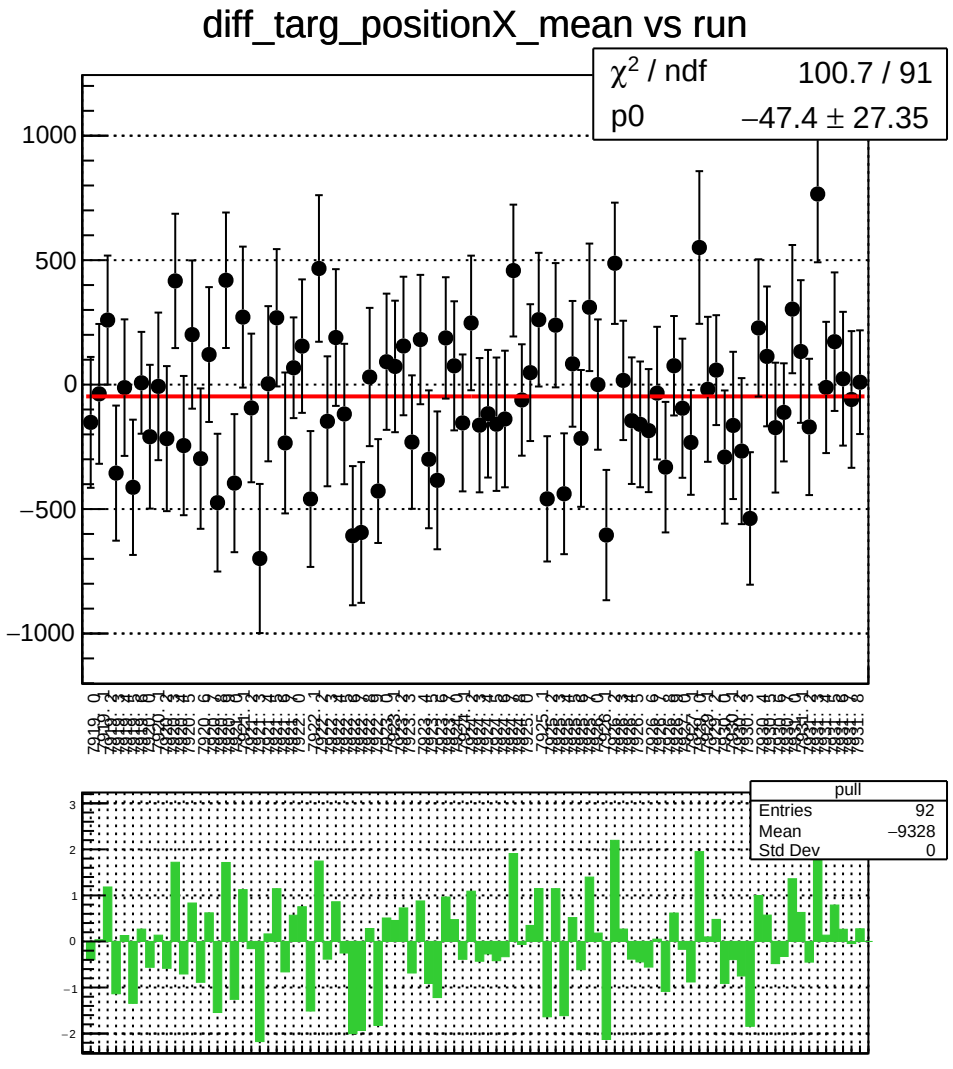

diff_bpm_4eY_4ecY_dd_mean vs run
χ² / ndf 99.61 / 91
p0 0.2106 ± 0.8167
pull
Entries 92
Mean −134.9
Std Dev 0
pull1D
Entries 92
Mean −0.01004
Std Dev 1.041

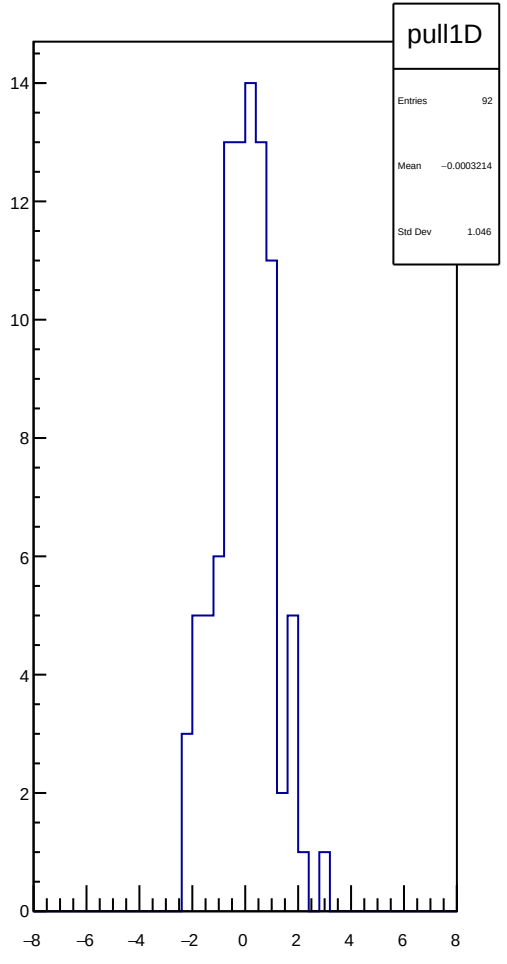

diff_bpm_4eY_4ecY_dd_rms vs run
χ² / ndf 301.8 / 91
p0 771 ± 0.5775
800
790
780
770
760
750
740

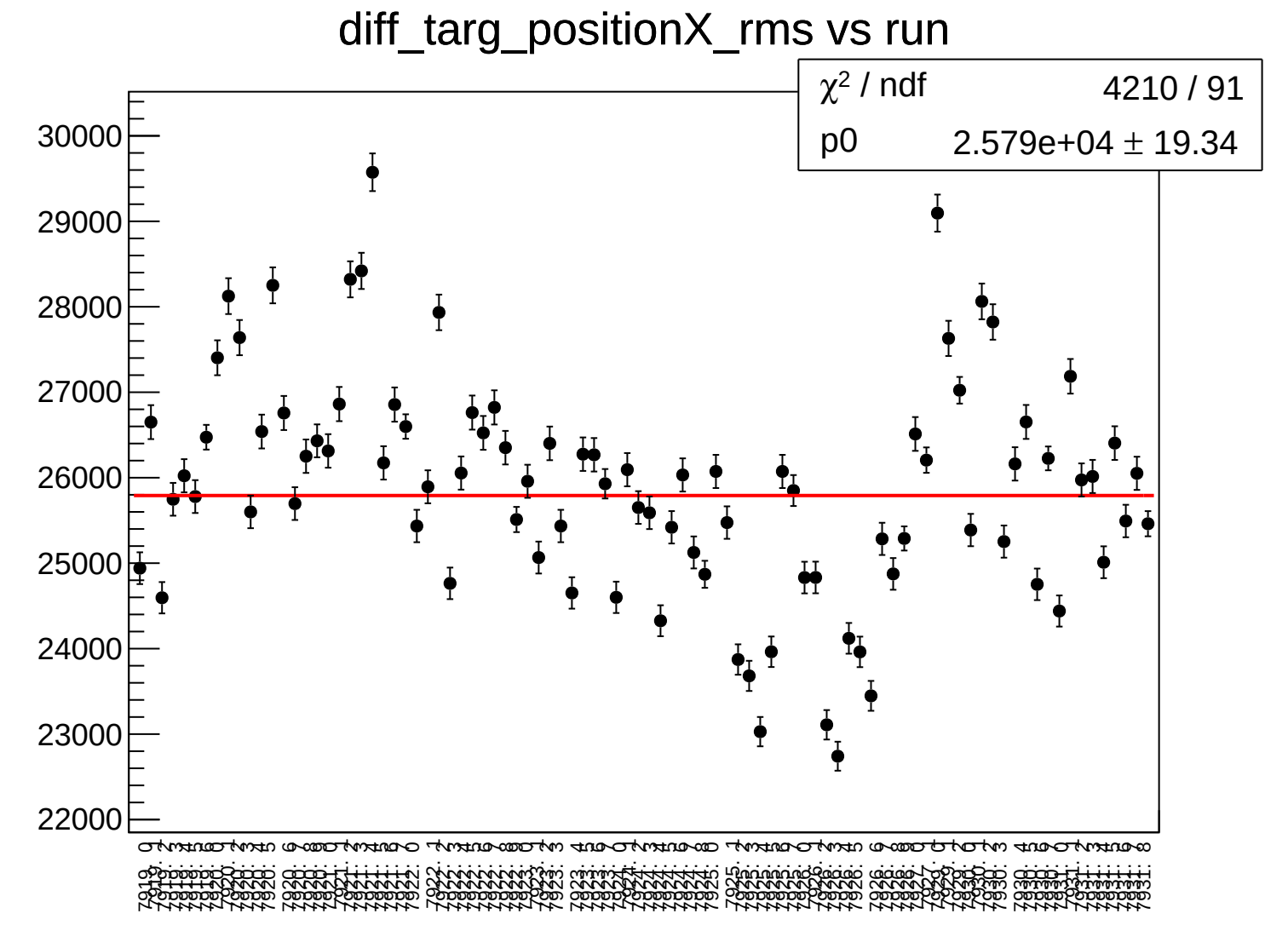

diff_dispE_bpm12X_mean vs run
χ² / ndf 96.46 / 91
p0 0.01381± 0.01071
pull
Entries 92
Mean −374.7
Std Dev 0

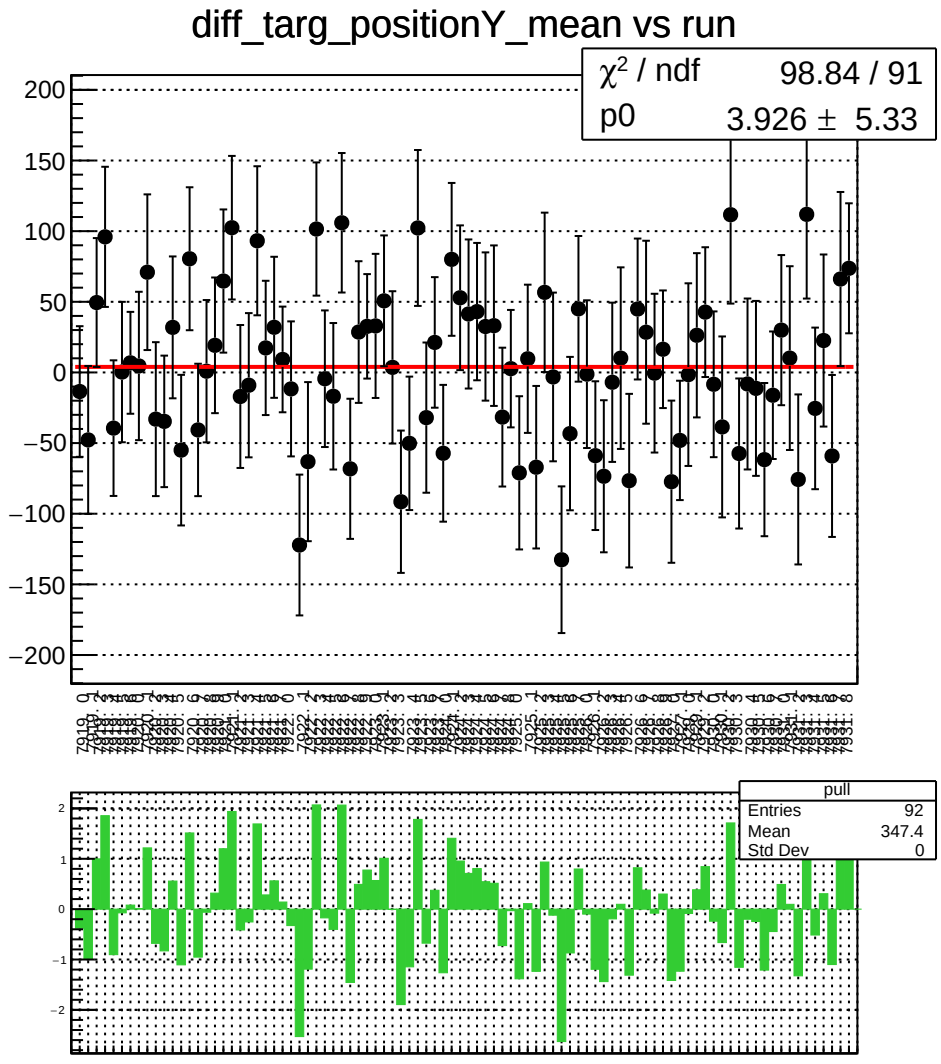

pull1D
Entries 92
Mean −0.004502
Std Dev 1.024

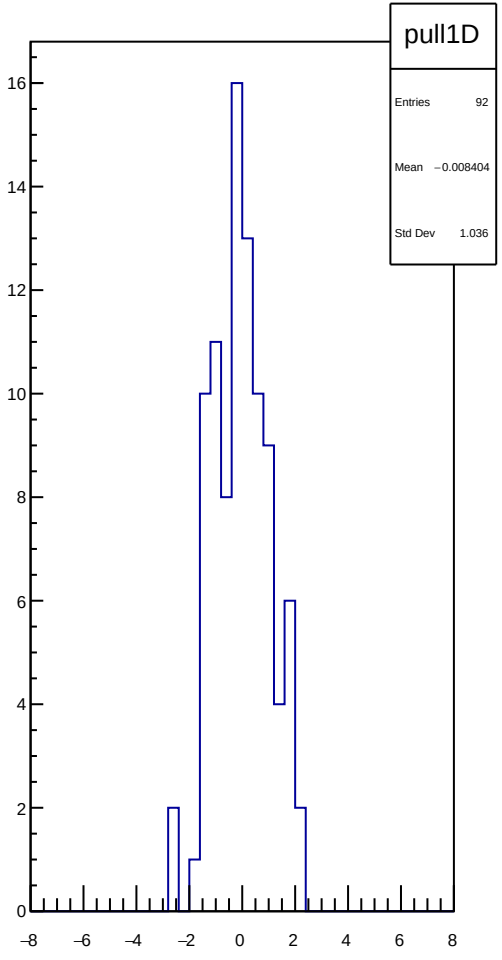

diff_dispE_bpm12X_rms vs run
χ² / ndf 2835 / 91
p0 10.1 ± 0.007574
12.5
12
11.5
11
10.5
10
9.5
9

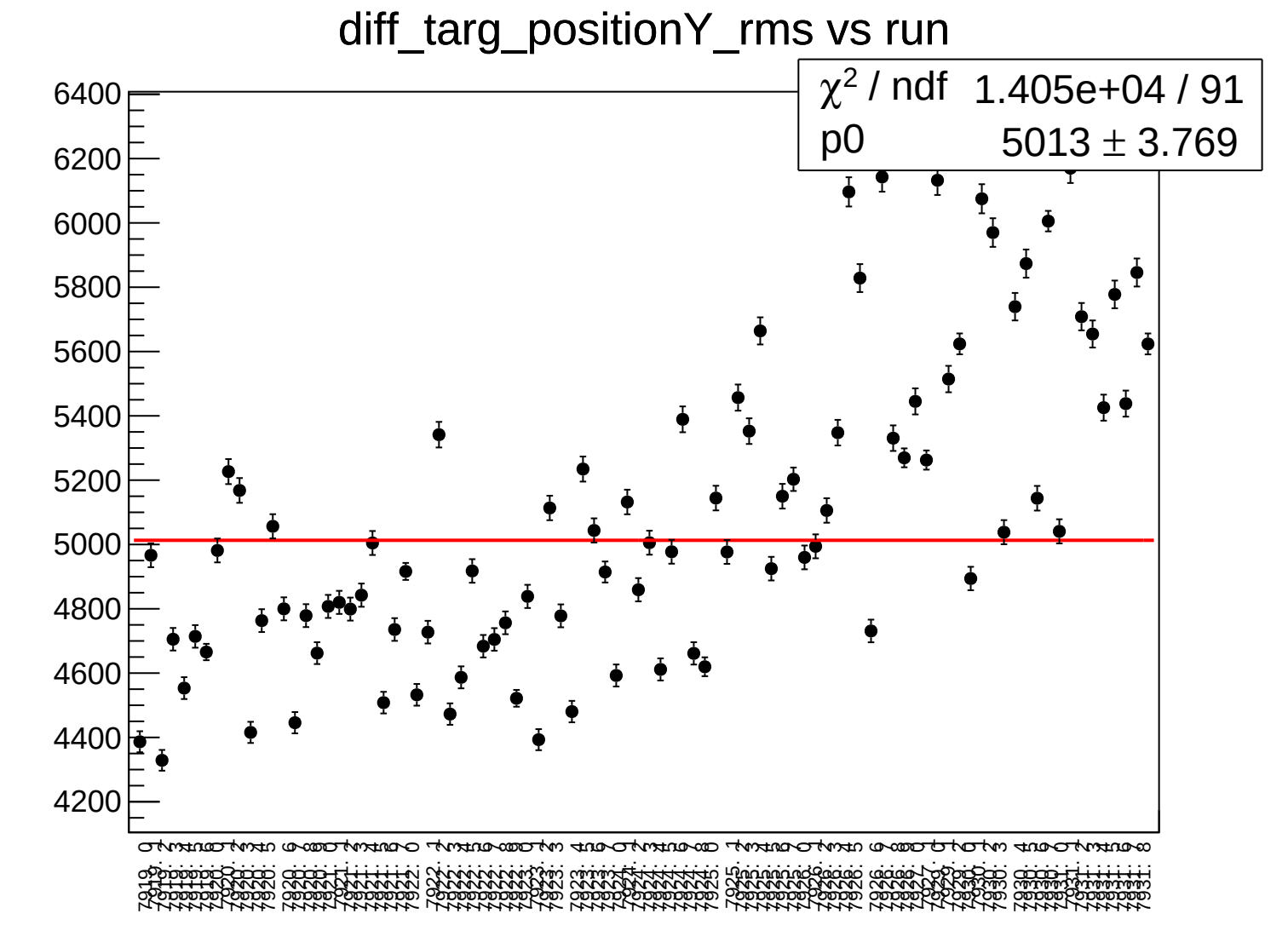

diff_targ_positionX_mean vs run
χ^2 / ndf 100.7 / 91
p0 −47.4 ± 27.35
1000
500
0
−500
−1000
pull
Entries 92
Mean −9328
Std Dev 0
3
2
1
0
−1
−2

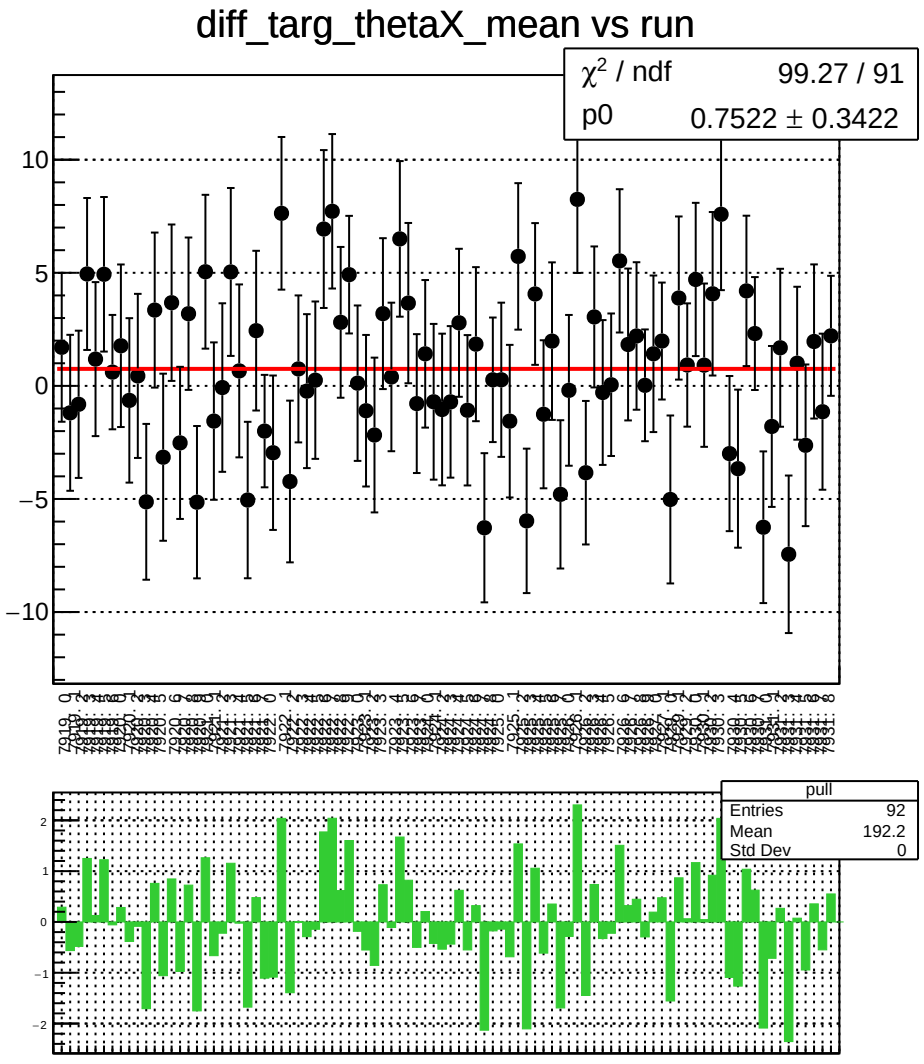

pull1D
Entries 92
Mean −0.0003214
Std Dev 1.046
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

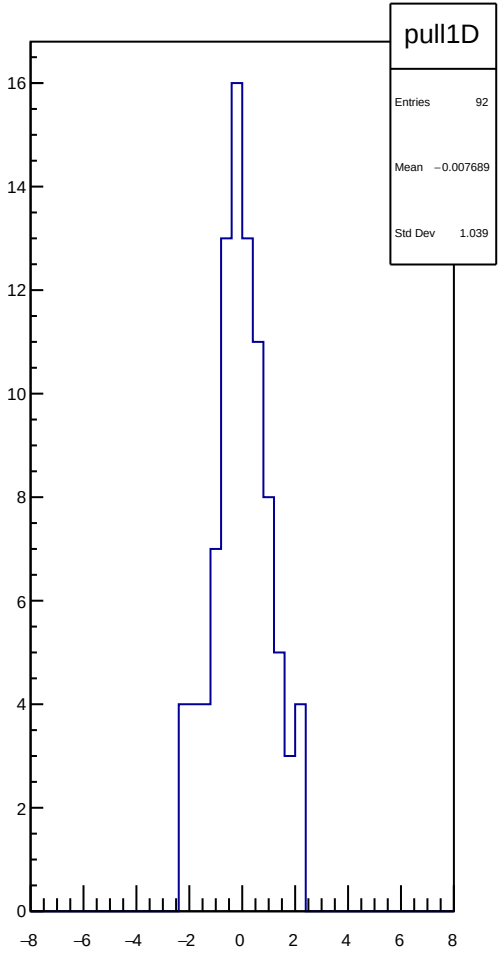

diff_targ_positionX_rms vs run
χ² / ndf 4210 / 91
p0 2.579e+04 ± 19.34
30000
29000
28000
27000
26000
25000
24000
23000
22000

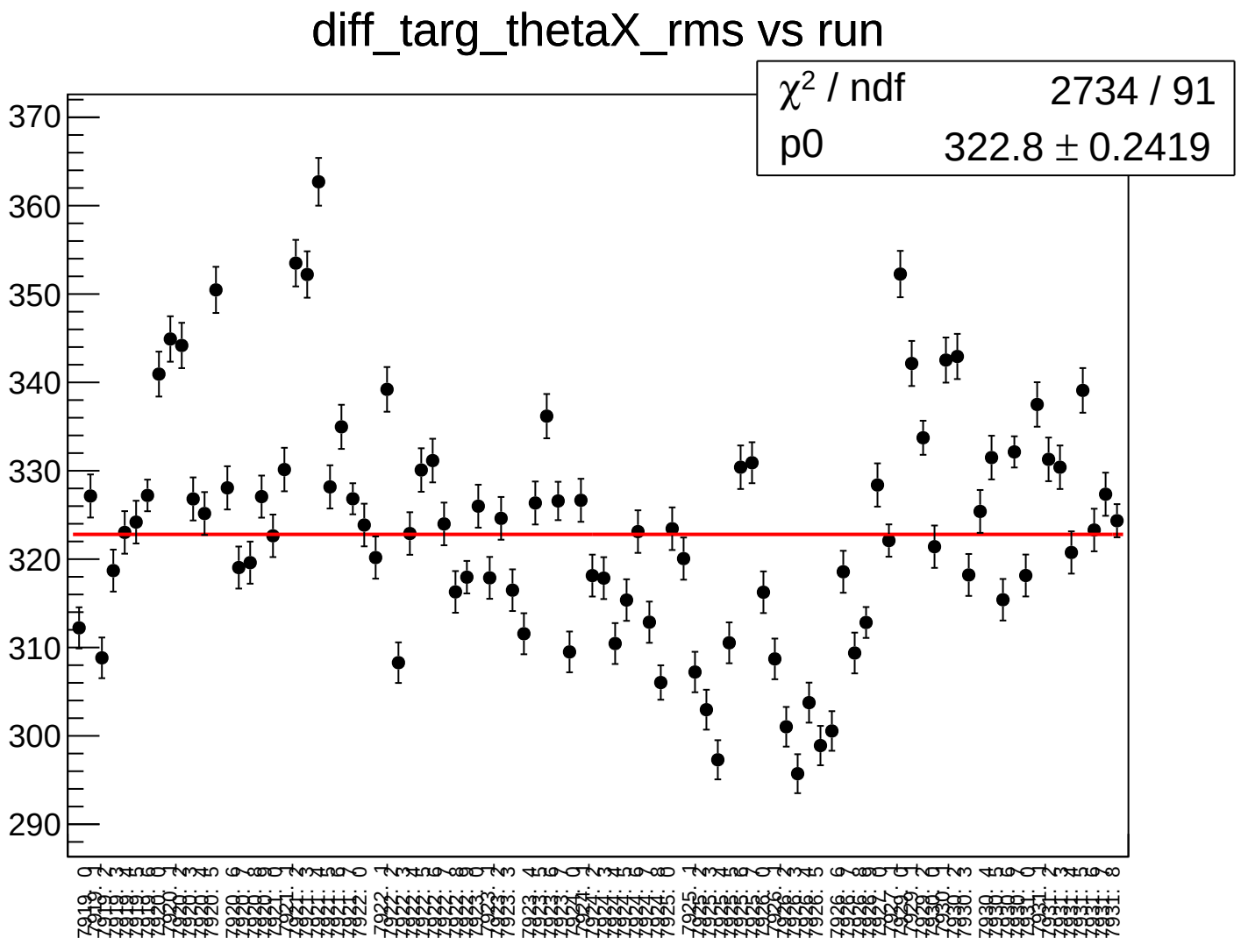

diff_targ_positionY_mean vs run
χ² / ndf 98.84 / 91
p0 3.926 ± 5.33
pull
Entries 92
Mean 347.4
Std Dev 0

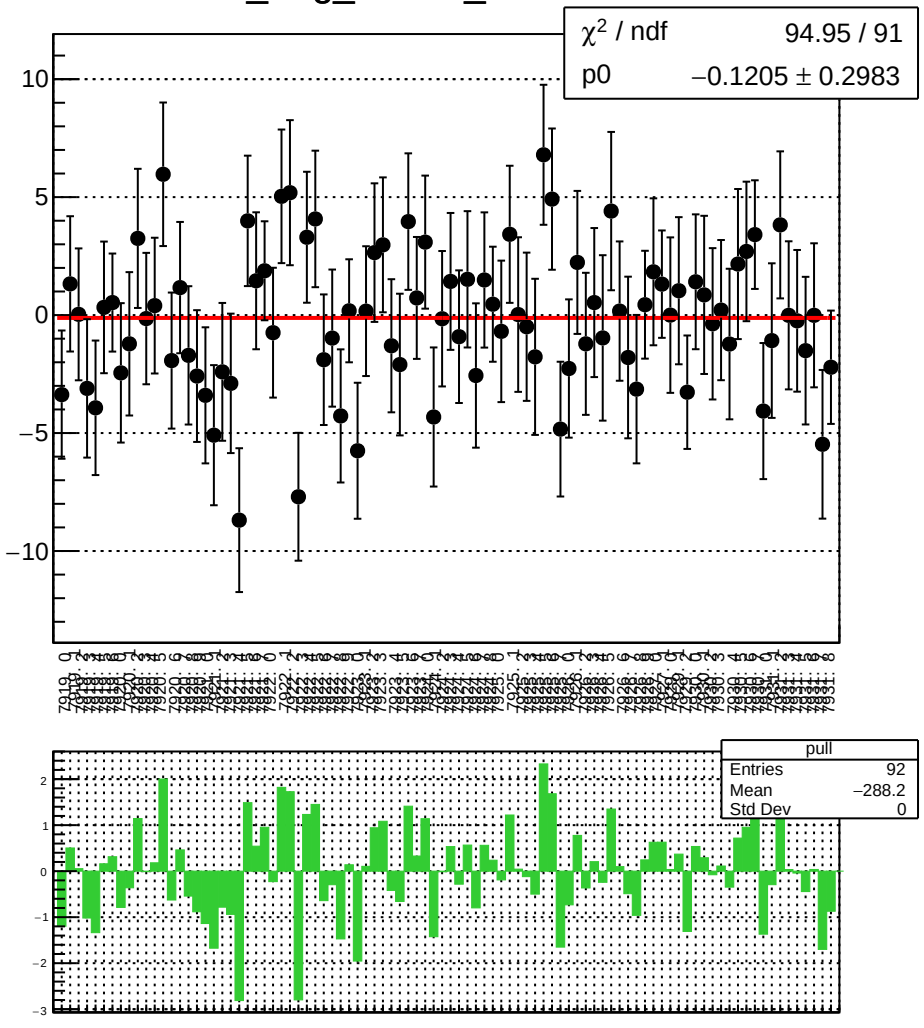

pull1D
Entries 92
Mean −0.008404
Std Dev 1.036

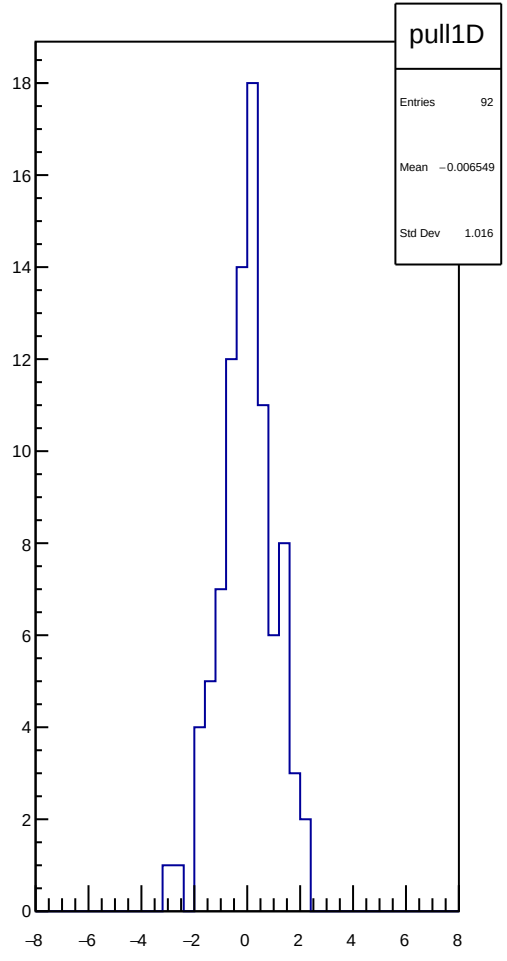

diff_targ_positionY_rms vs run
χ² / ndf 1.405e+04 / 91
p0 5013 ± 3.769
6400
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200

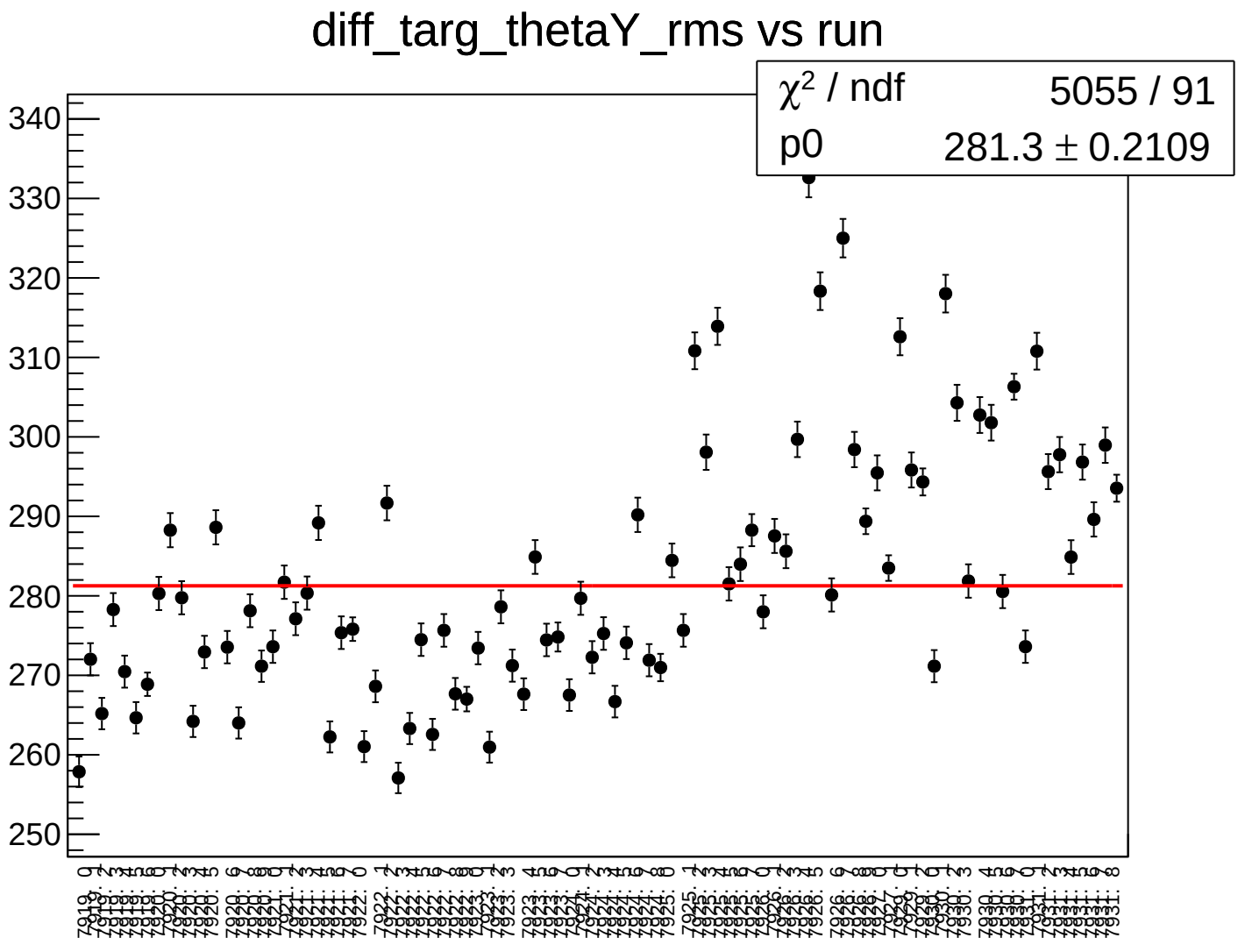

diff_targ_thetaX_mean vs run
χ² / ndf 99.27 / 91
p0 0.7522 ± 0.3422
pull
Entries 92
Mean 192.2
Std Dev 0

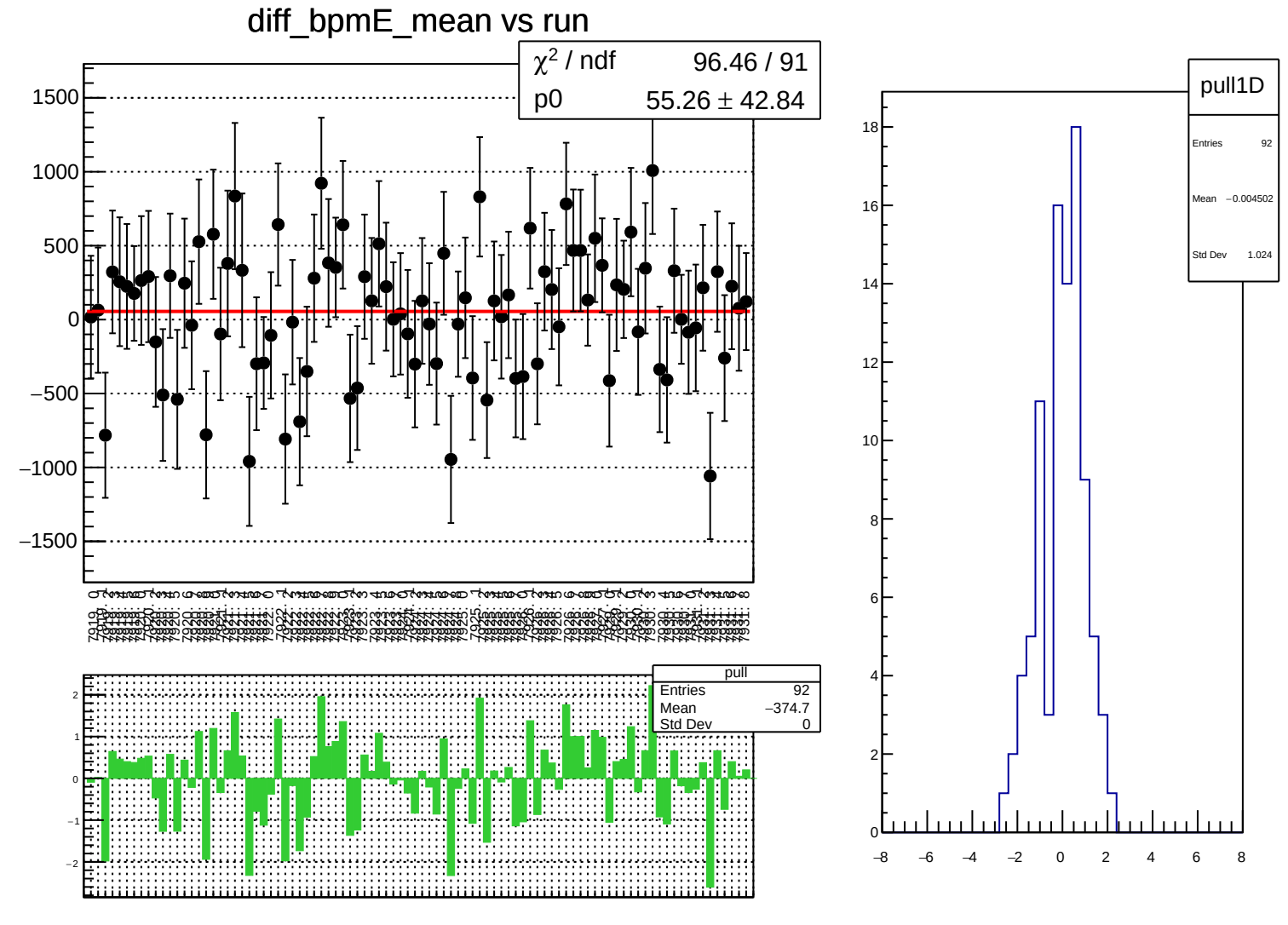

pull1D
Entries 92
Mean −0.007689
Std Dev 1.039

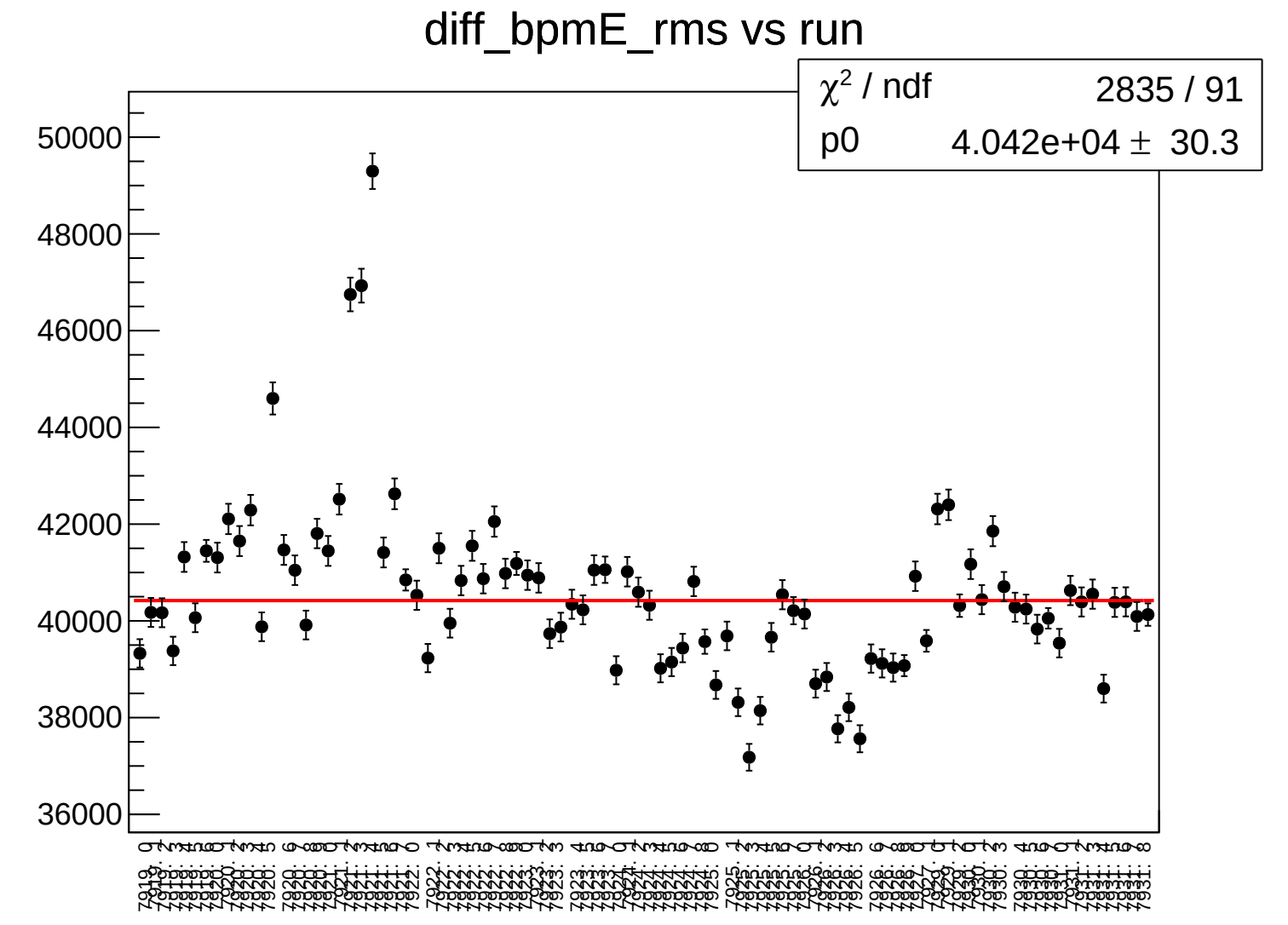

diff_targ_thetaX_rms vs run
χ² / ndf 2734 / 91
p0 322.8 ± 0.2419
370
360
350
340
330
320
310
300
290

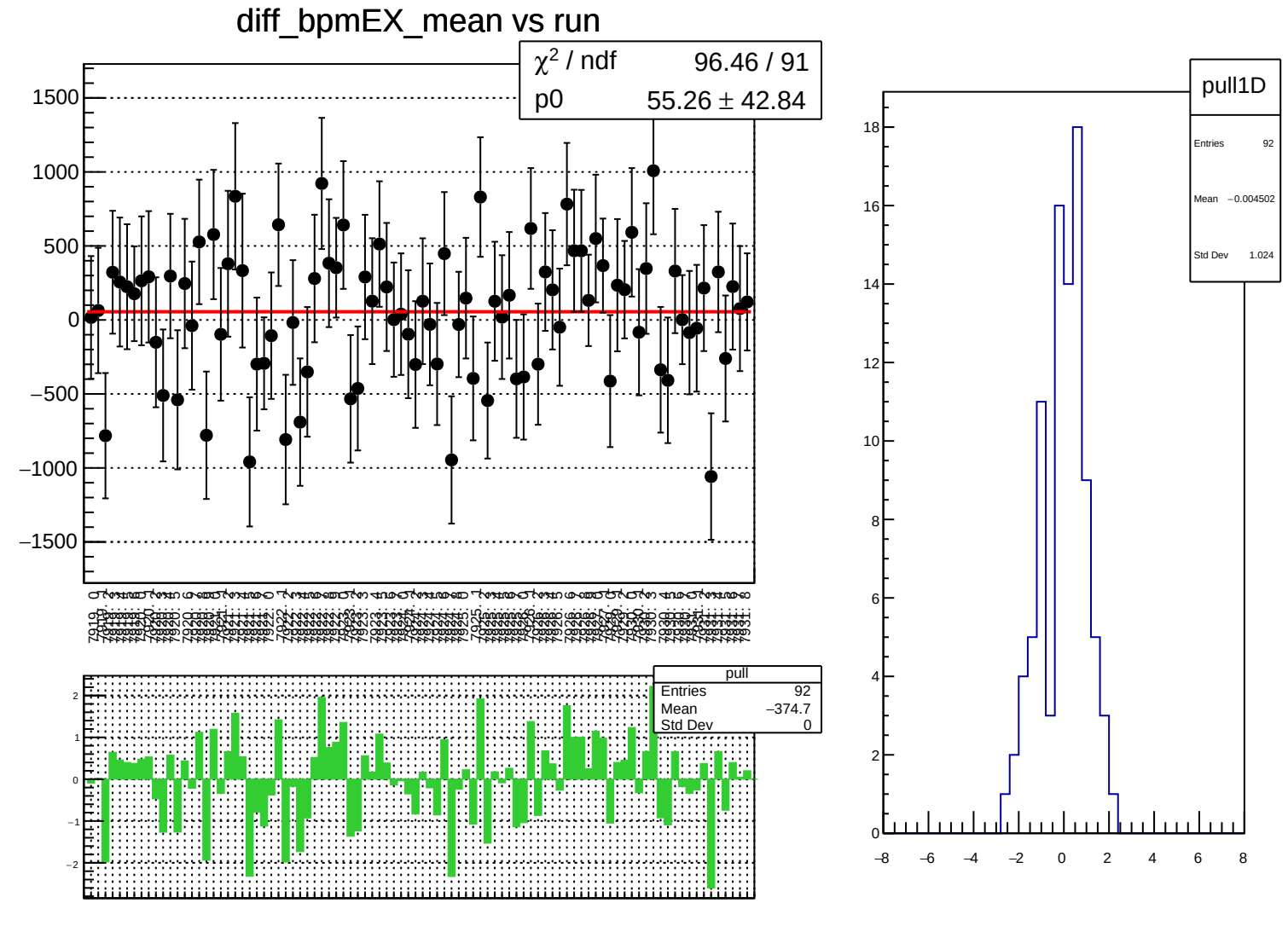

diff_targ_thetaY_mean vs run
χ² / ndf 94.95 / 91
p0 −0.1205 ± 0.2983
pull
Entries 92
Mean −288.2
Std Dev 0

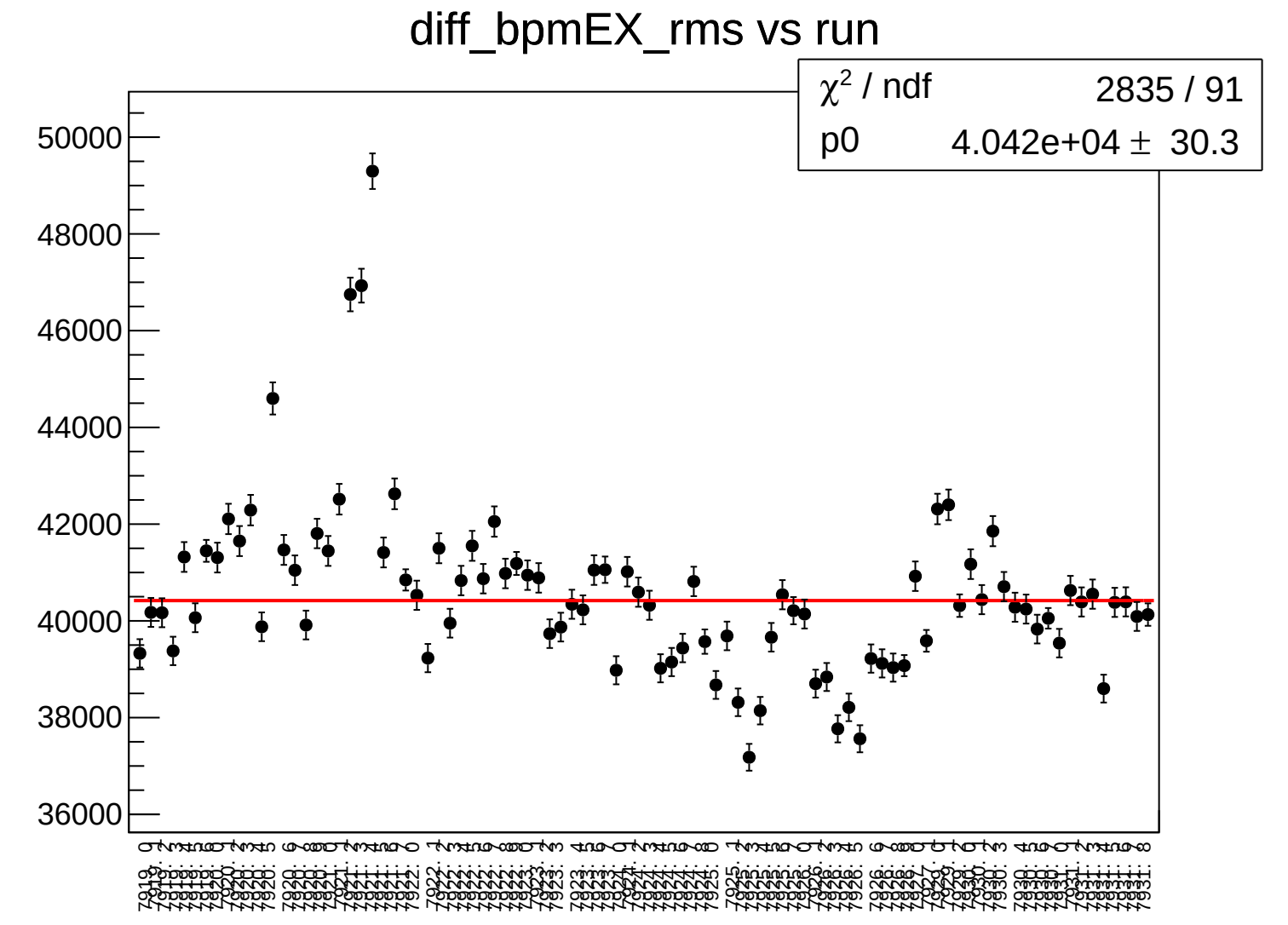

pull1D
Entries 92
Mean −0.006549
Std Dev 1.016

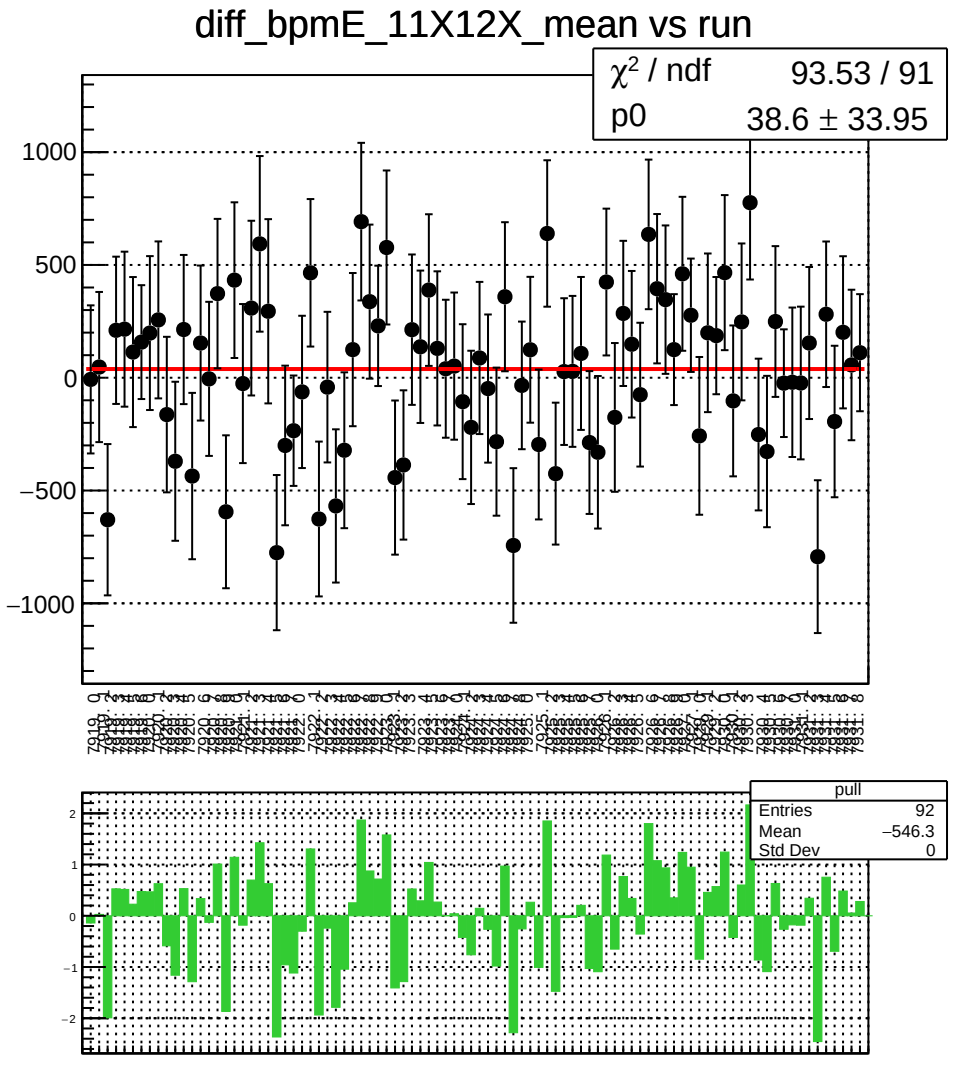

diff_targ_thetaY_rms vs run
χ^2 / ndf 5055 / 91
p0 281.3 ± 0.2109
340
330
320
310
300
290
280
270
260
250

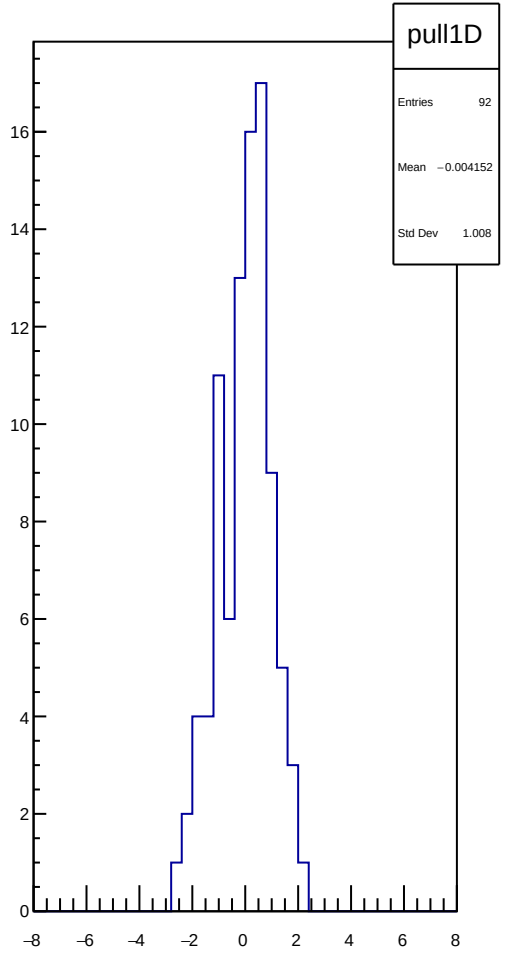

diff_bpmE_mean vs run
χ² / ndf 96.46 / 91
p0 55.26 ± 42.84
1500
1000
500
0
−500
−1000
−1500
pull
Entries 92
Mean −374.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.004502
Std Dev 1.024
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

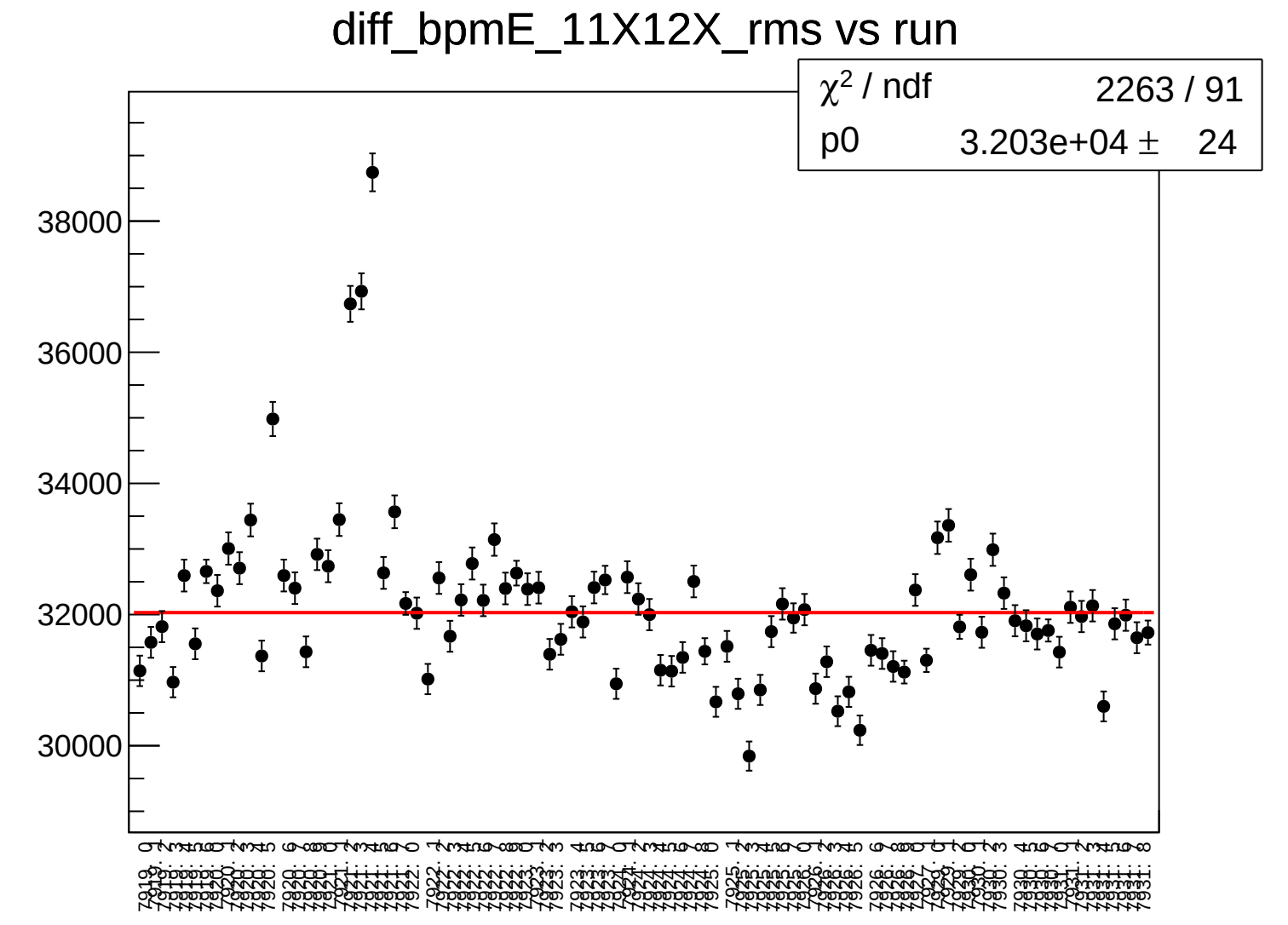

diff_bpmE_rms vs run
χ^2 / ndf 2835 / 91
p0 4.042e+04 ± 30.3
50000
48000
46000
44000
42000
40000
38000
36000

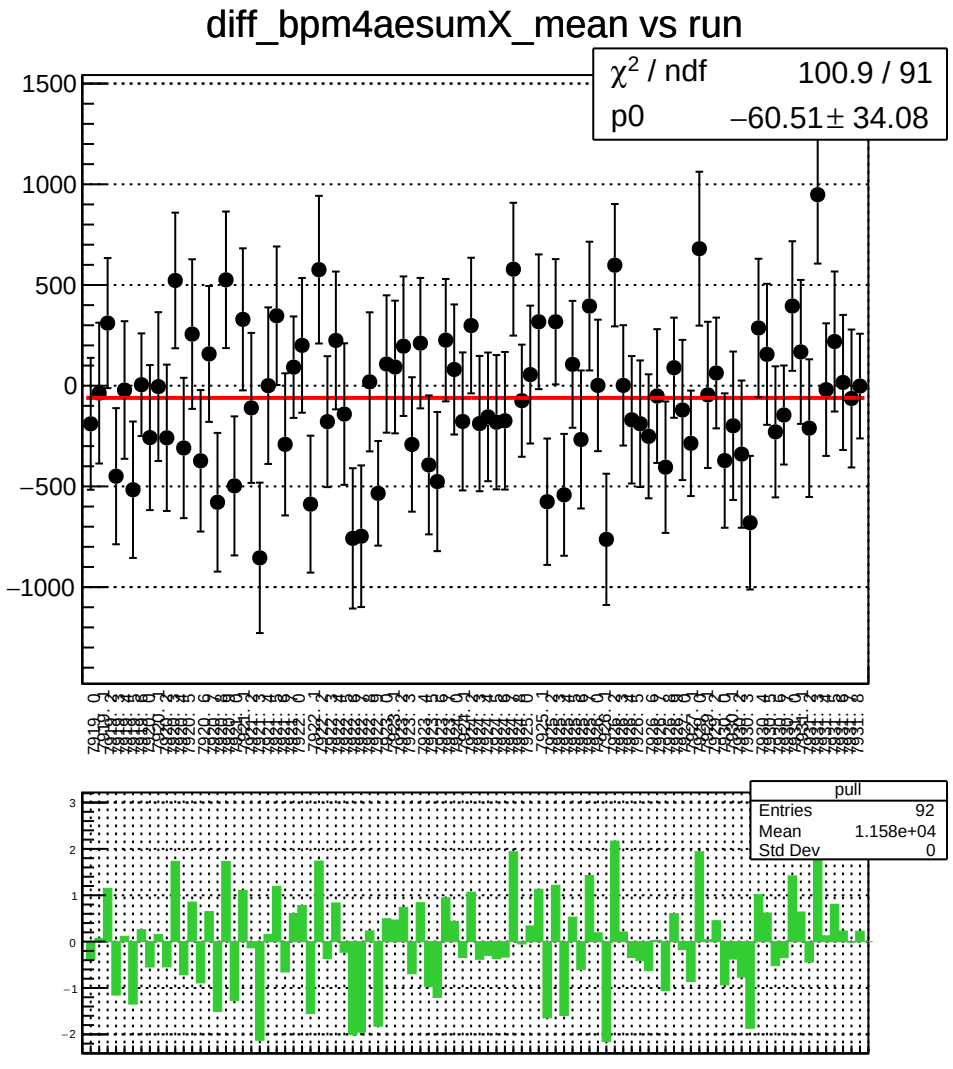

diff_bpmEX_mean vs run
χ² / ndf 96.46 / 91
p0 55.26 ± 42.84
1500
1000
500
0
−500
−1000
−1500
pull
Entries 92
Mean −374.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.004502
Std Dev 1.024
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

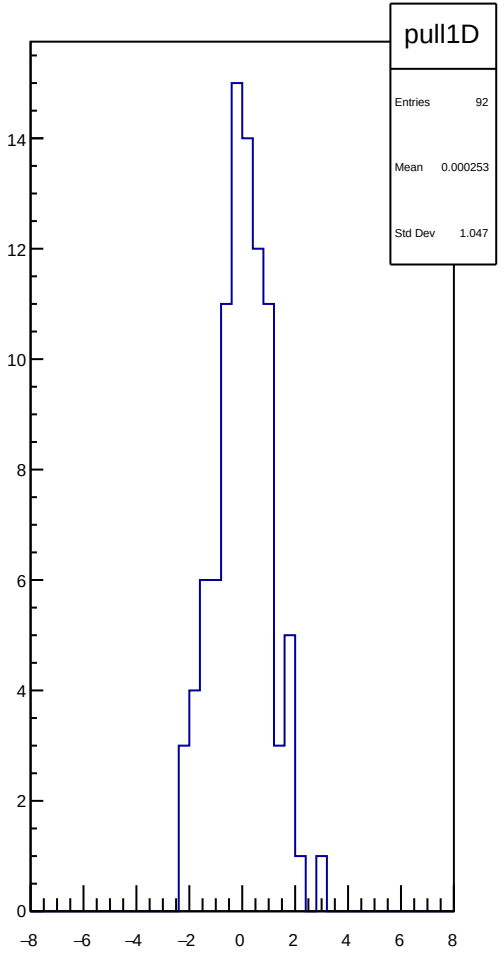

diff_bpmEX_rms vs run
χ² / ndf 2835 / 91
p0 4.042e+04 ± 30.3
50000
48000
46000
44000
42000
40000
38000
36000

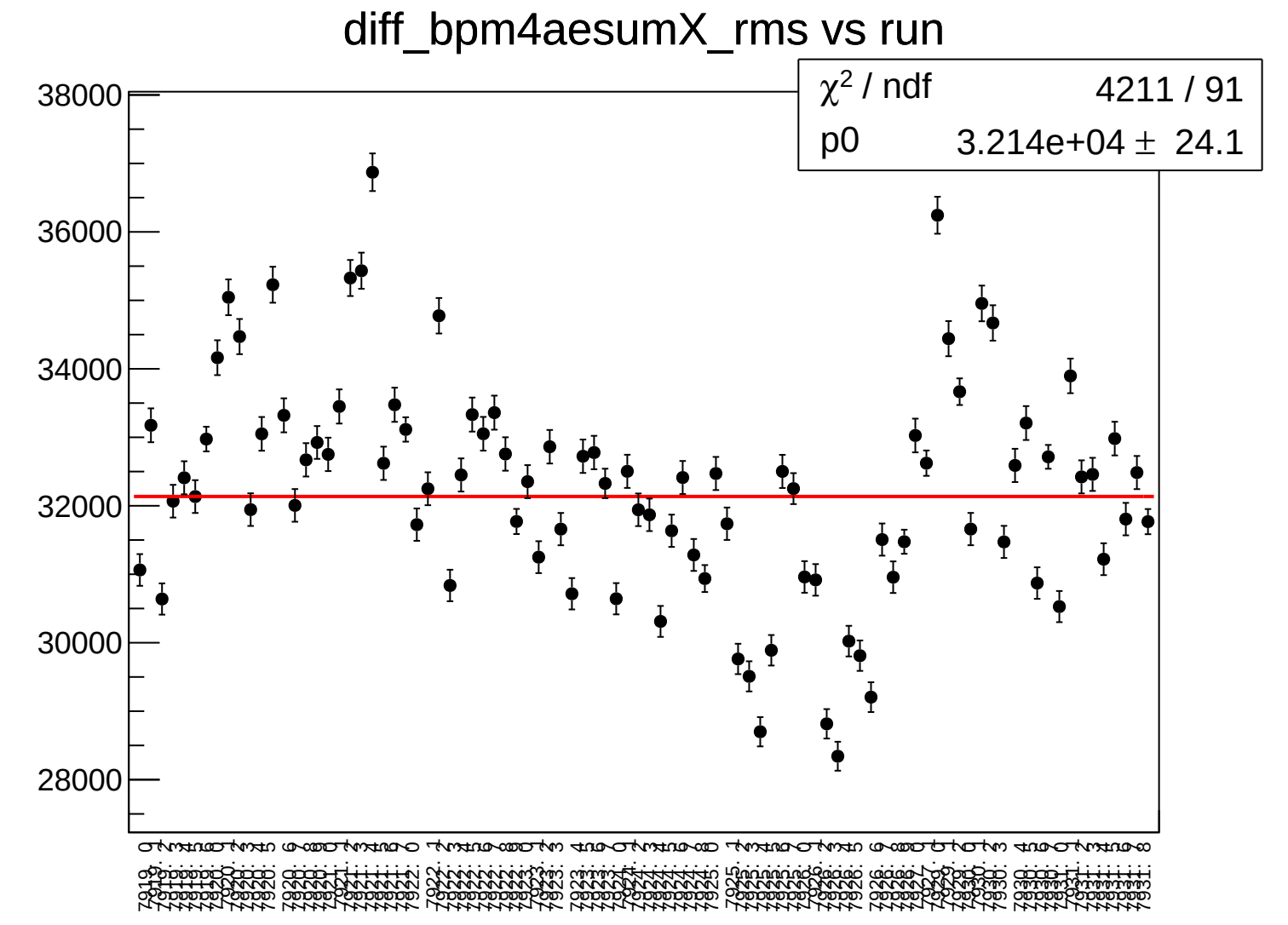

diff_bpmE_11X12X_mean vs run
χ² / ndf 93.53 / 91
p0 38.6 ± 33.95
1000
500
0
−500
−1000
pull
Entries 92
Mean −546.3
Std Dev 0
2
1
0
−1
−2

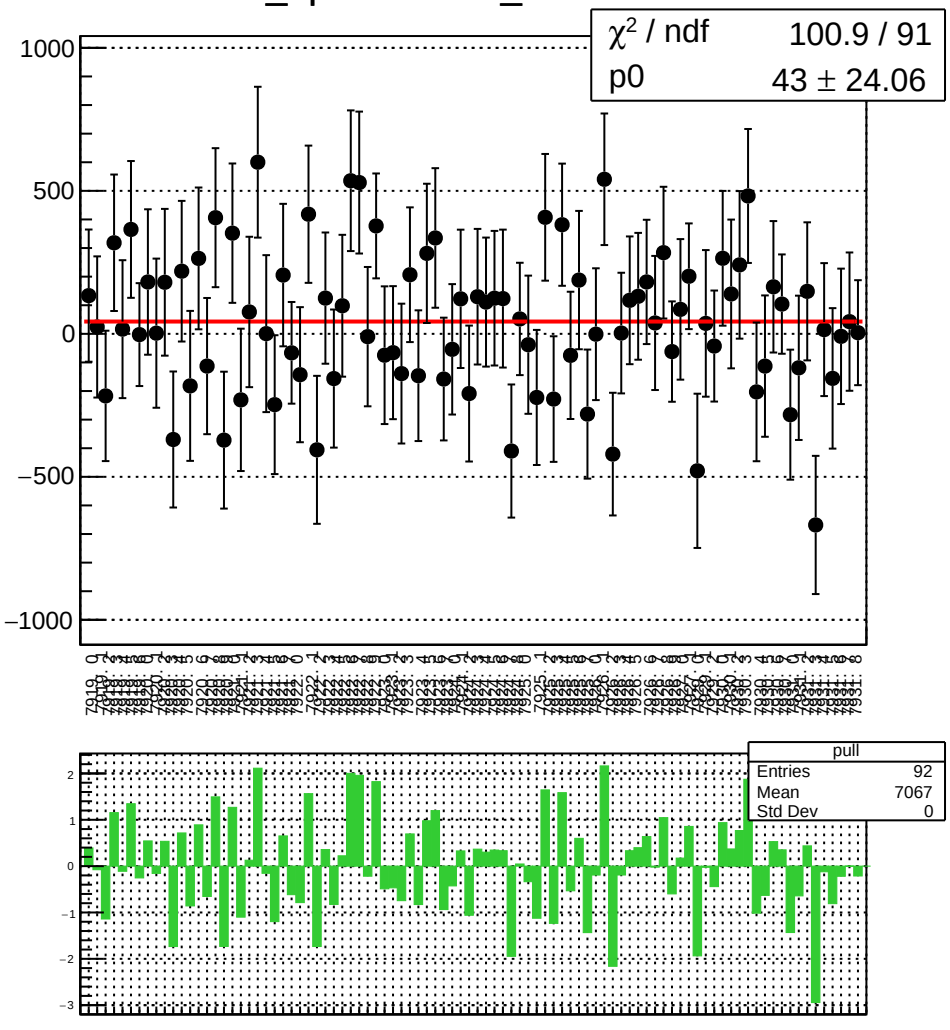

pull1D
Entries 92
Mean −0.004152
Std Dev 1.008
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

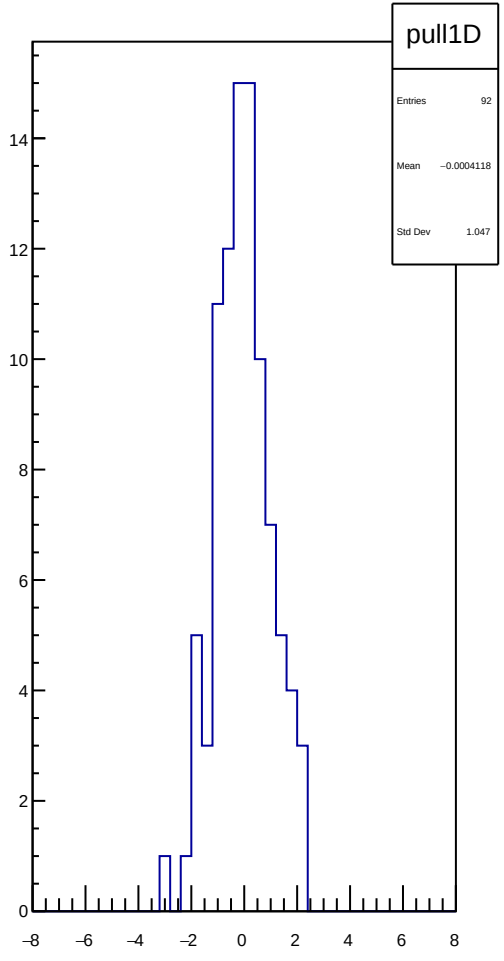

diff_bpmE_11X12X_rms vs run
χ² / ndf 2263 / 91
p0 3.203e+04 ± 24
38000
36000
34000
32000
30000

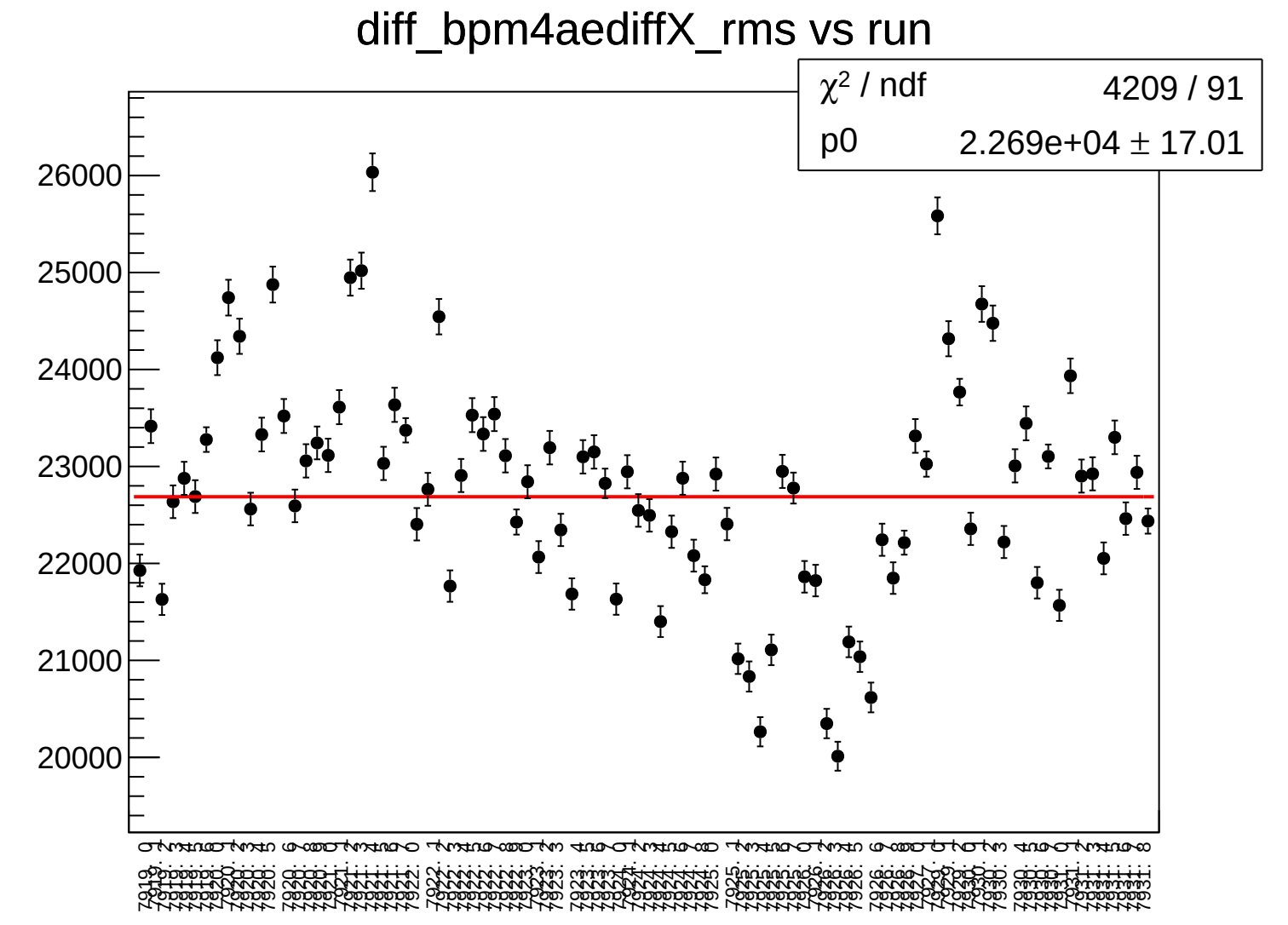

diff_bpm4aesumX_mean vs run
χ² / ndf 100.9 / 91
p0 −60.51 ± 34.08
1500
1000
500
0
−500
−1000
pull
Entries 92
Mean 1.158e+04
Std Dev 0
3
2
1
0
−1
−2

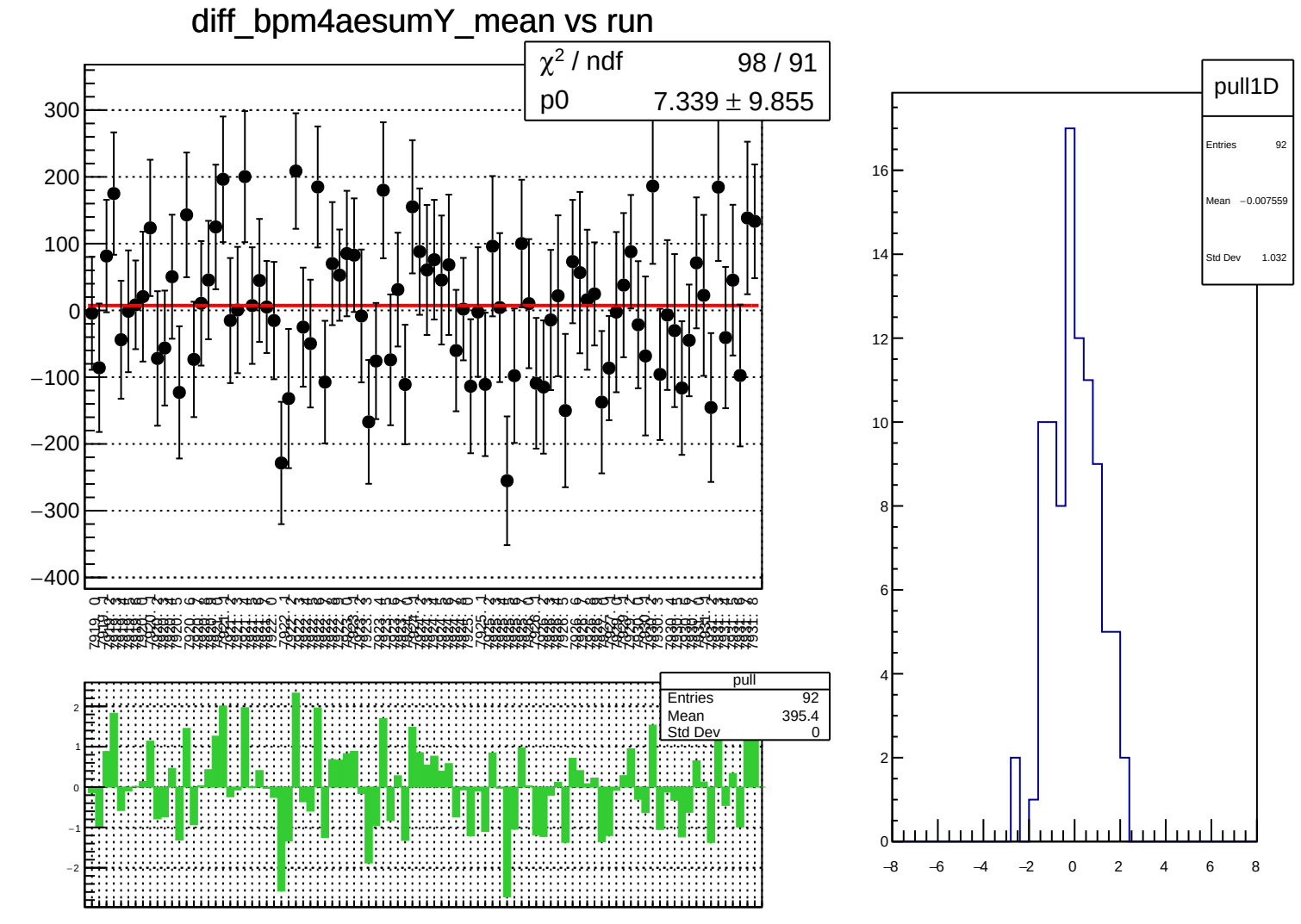

pull1D
Entries 92
Mean 0.000253
Std Dev 1.047
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

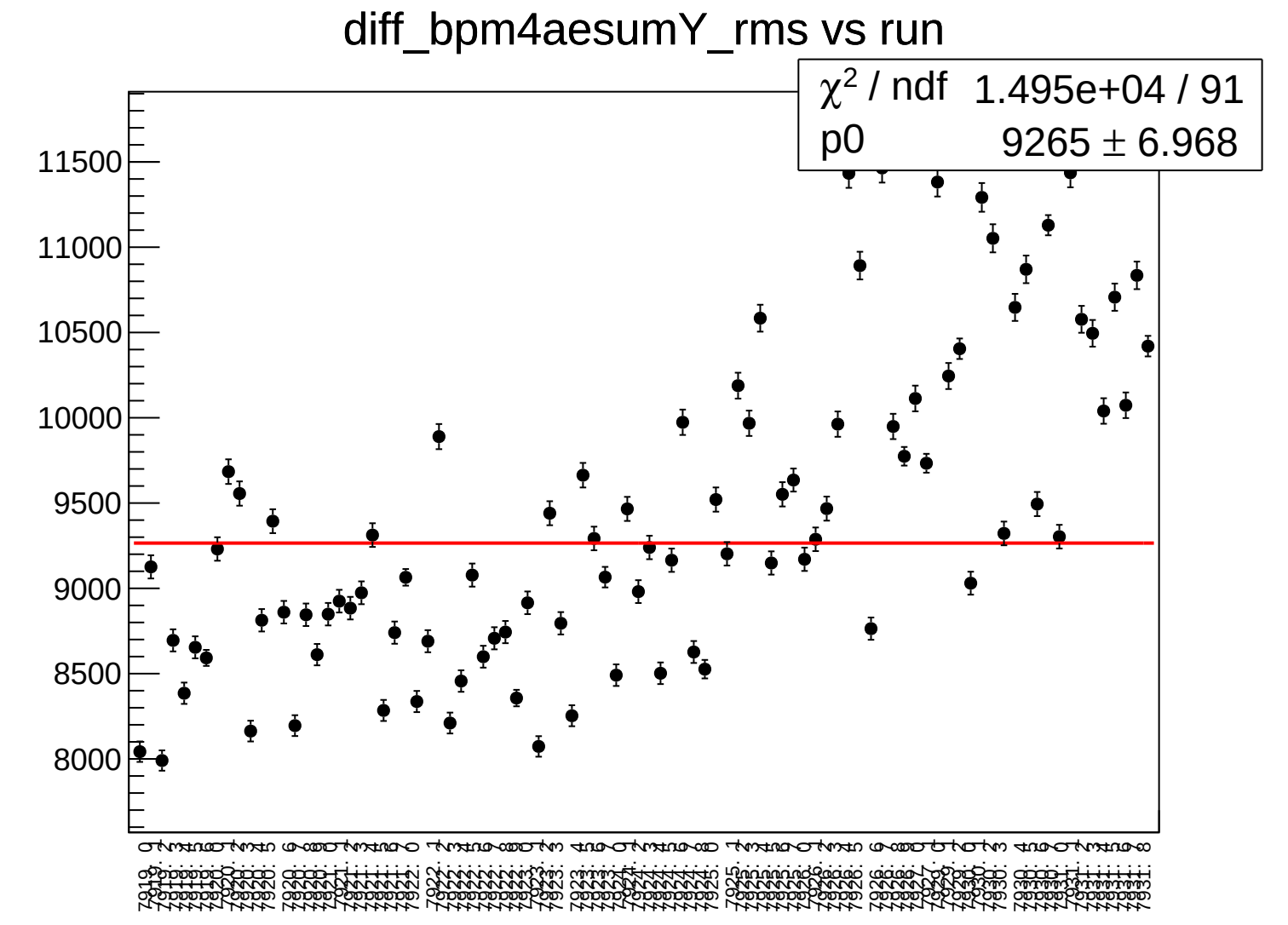

diff_bpm4aesumX_rms vs run
χ² / ndf 4211 / 91
p0 3.214e+04 ± 24.1
38000
36000
34000
32000
30000
28000

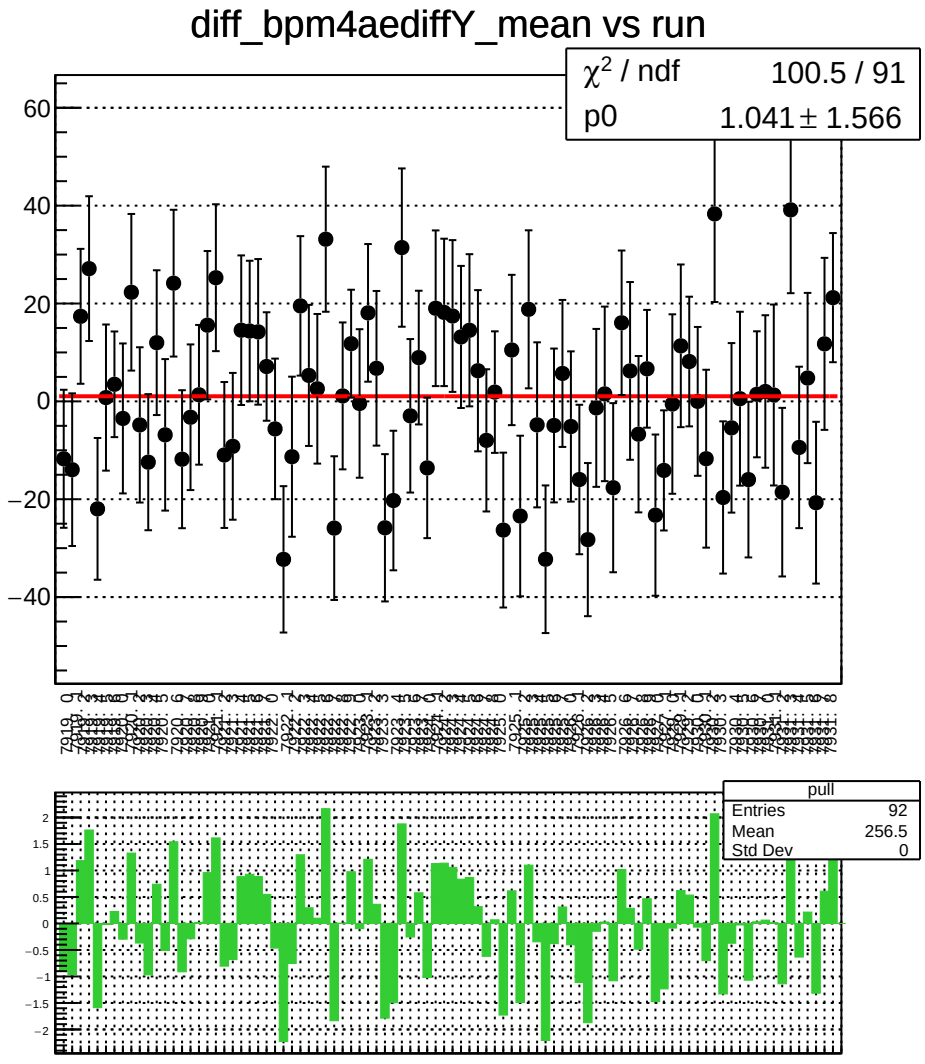

diff_bpm4aediffX_mean vs run
χ² / ndf 100.9 / 91
p0 43 ± 24.06
1000
500
0
−500
−1000
pull
Entries 92
Mean 7067
Std Dev 0
2
1
0
−1
−2
−3

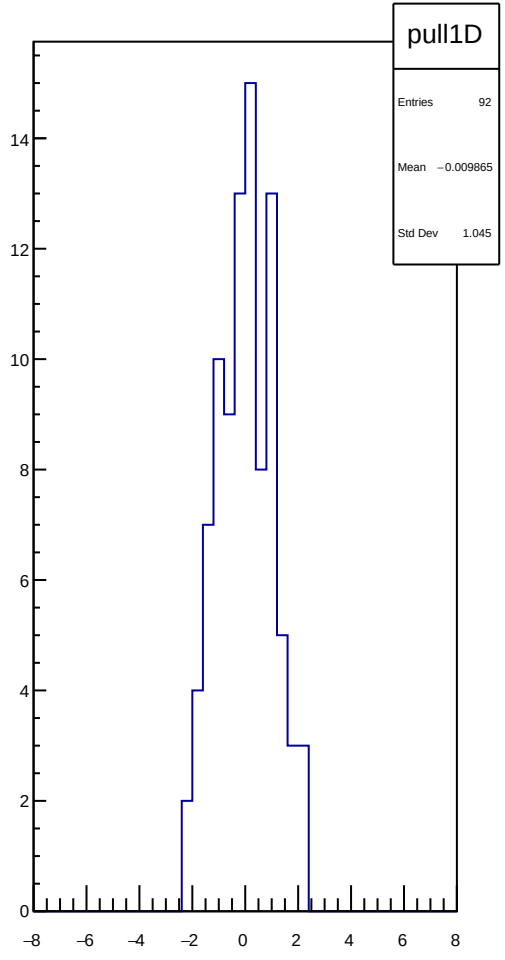

pull1D
Entries 92
Mean −0.0004118
Std Dev 1.047
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

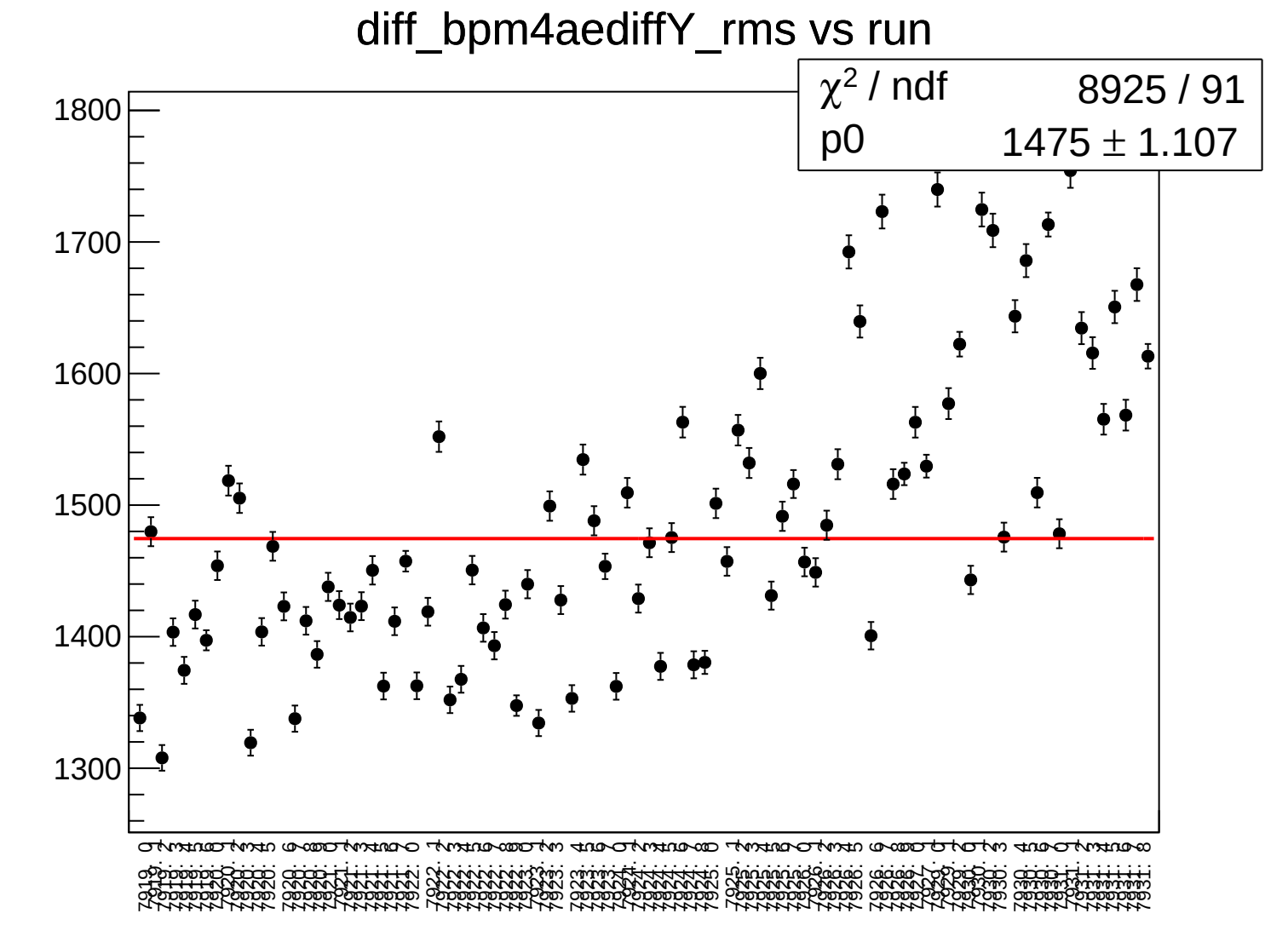

diff_bpm4aediffX_rms vs run
χ² / ndf 4209 / 91
p0 2.269e+04 ± 17.01
26000
25000
24000
23000
22000
21000
20000

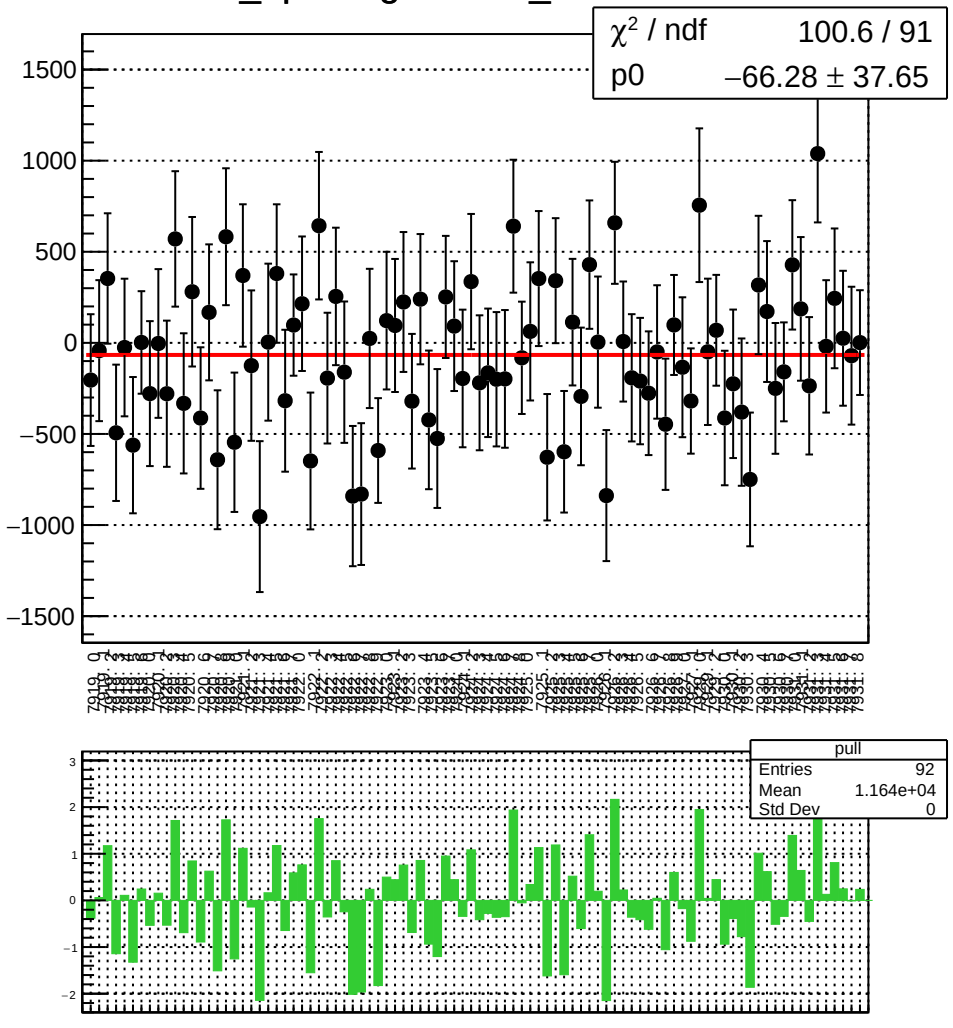

diff_bpm4aesumY_mean vs run
χ² / ndf 98 / 91
p0 7.339 ± 9.855
pull
Entries 92
Mean 395.4
Std Dev 0
pull1D
Entries 92
Mean −0.007559
Std Dev 1.032

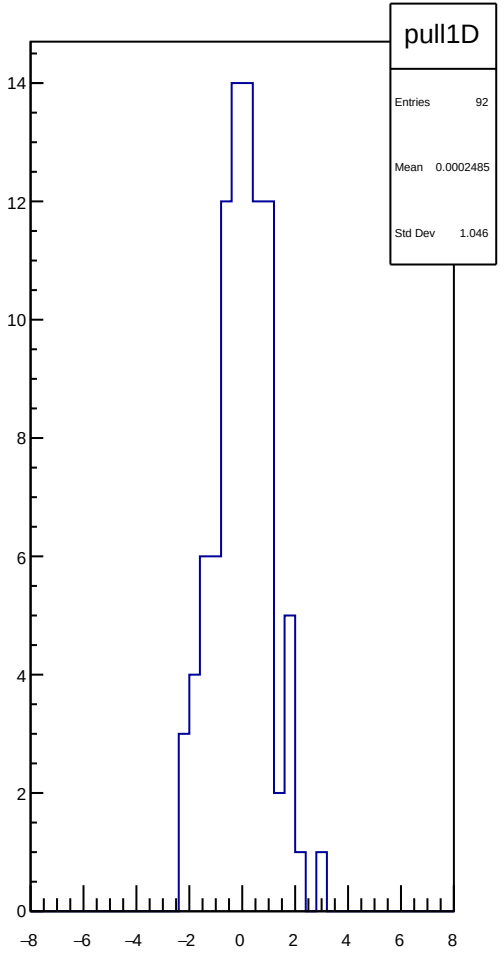

diff_bpm4aesumY_rms vs run
χ² / ndf 1.495e+04 / 91
p0 9265 ± 6.968
11500
11000
10500
10000
9500
9000
8500
8000

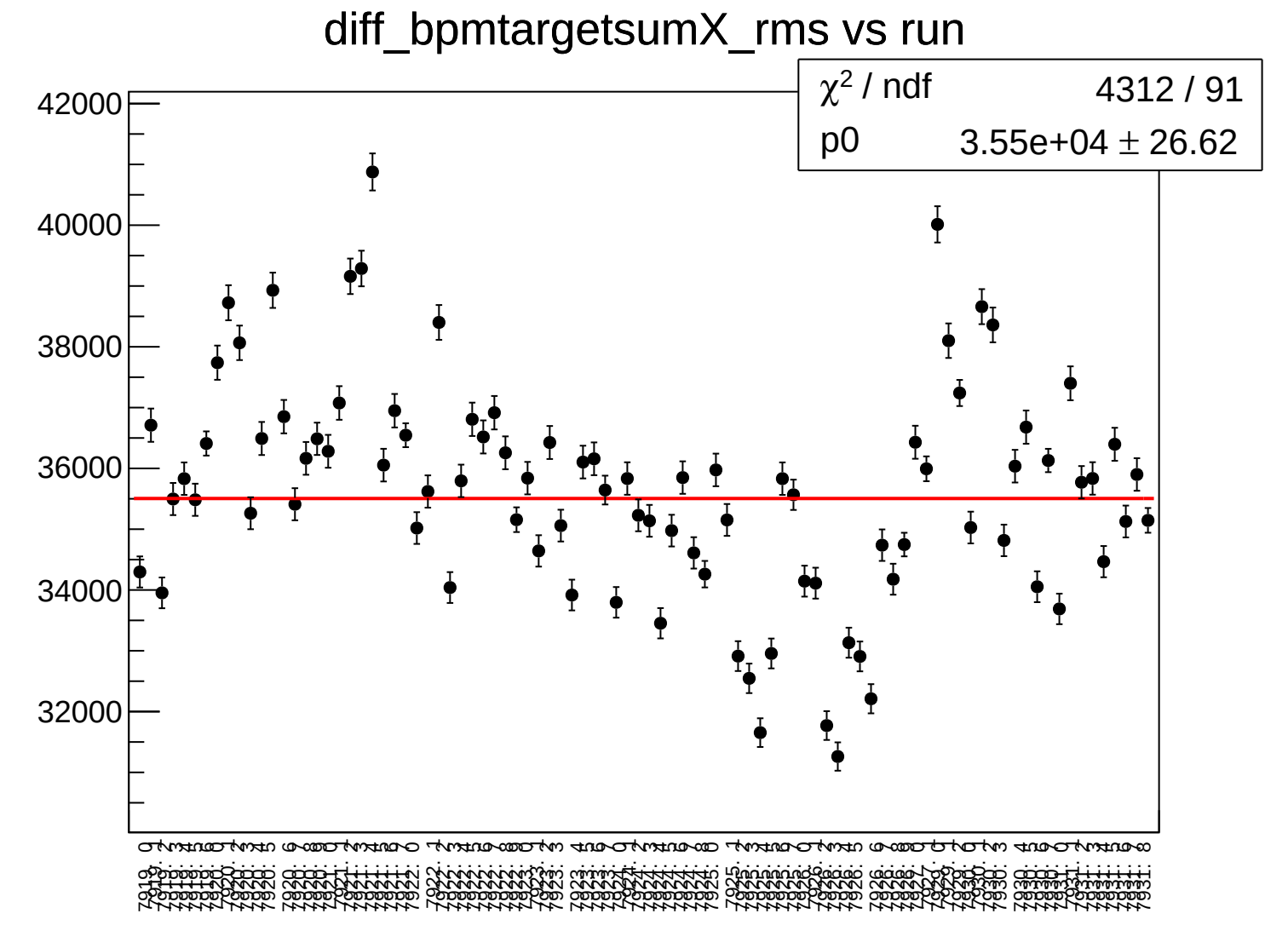

diff_bpm4aediffY_mean vs run
χ² / ndf 100.5 / 91
p0 1.041 ± 1.566
pull
Entries 92
Mean 256.5
Std Dev 0

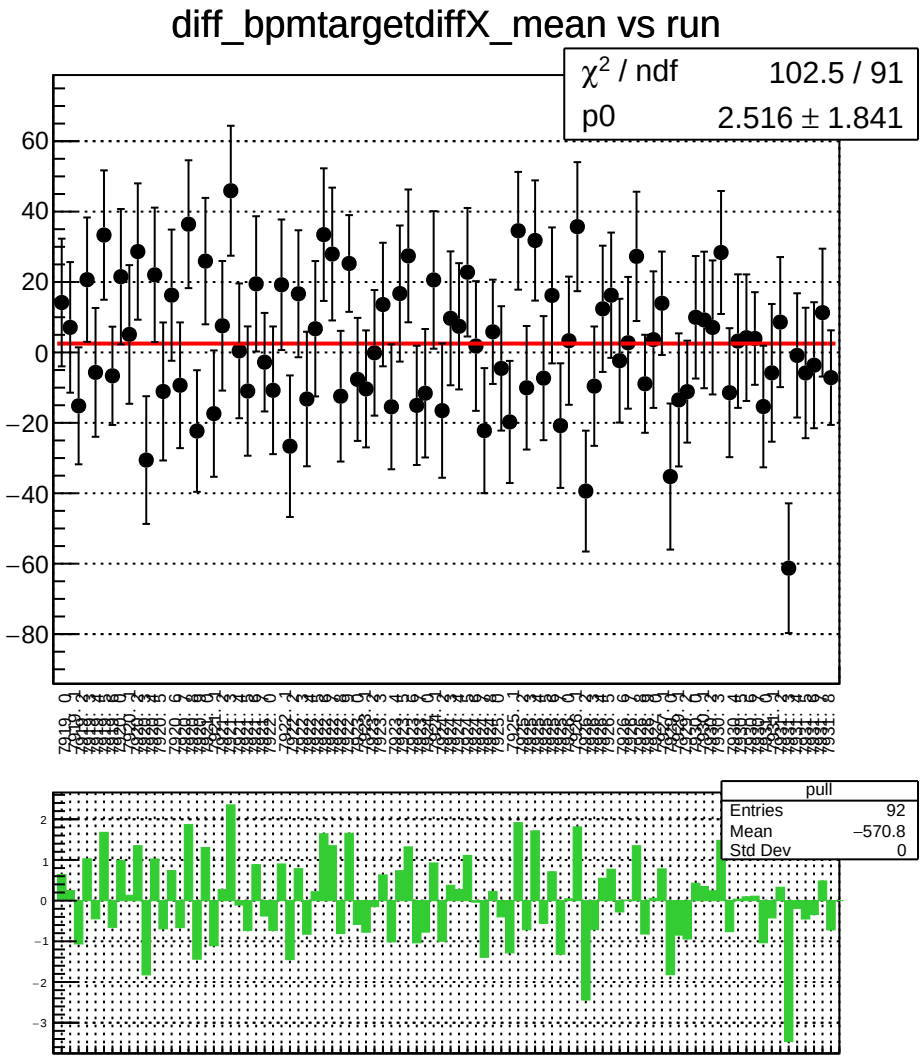

pull1D
Entries 92
Mean −0.009865
Std Dev 1.045

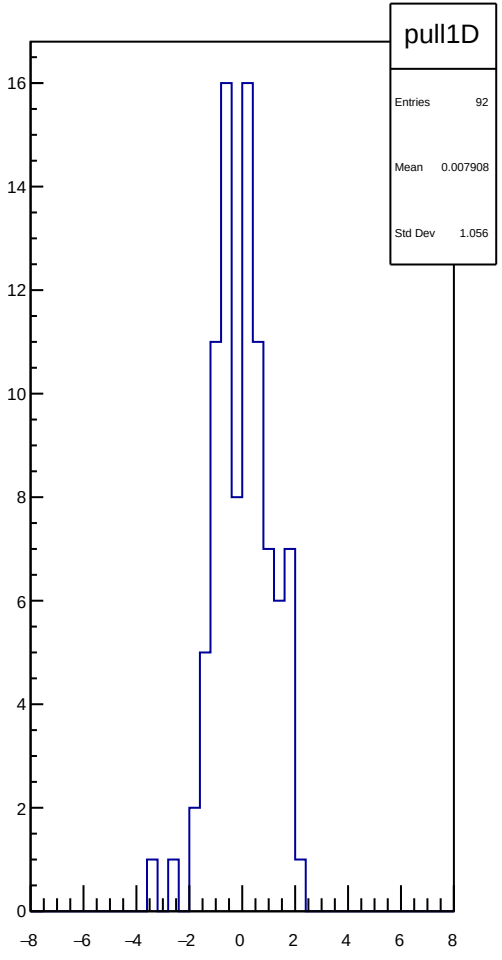

diff_bpm4aediffY_rms vs run
χ² / ndf 8925 / 91
p0 1475 ± 1.107
1800
1700
1600
1500
1400
1300

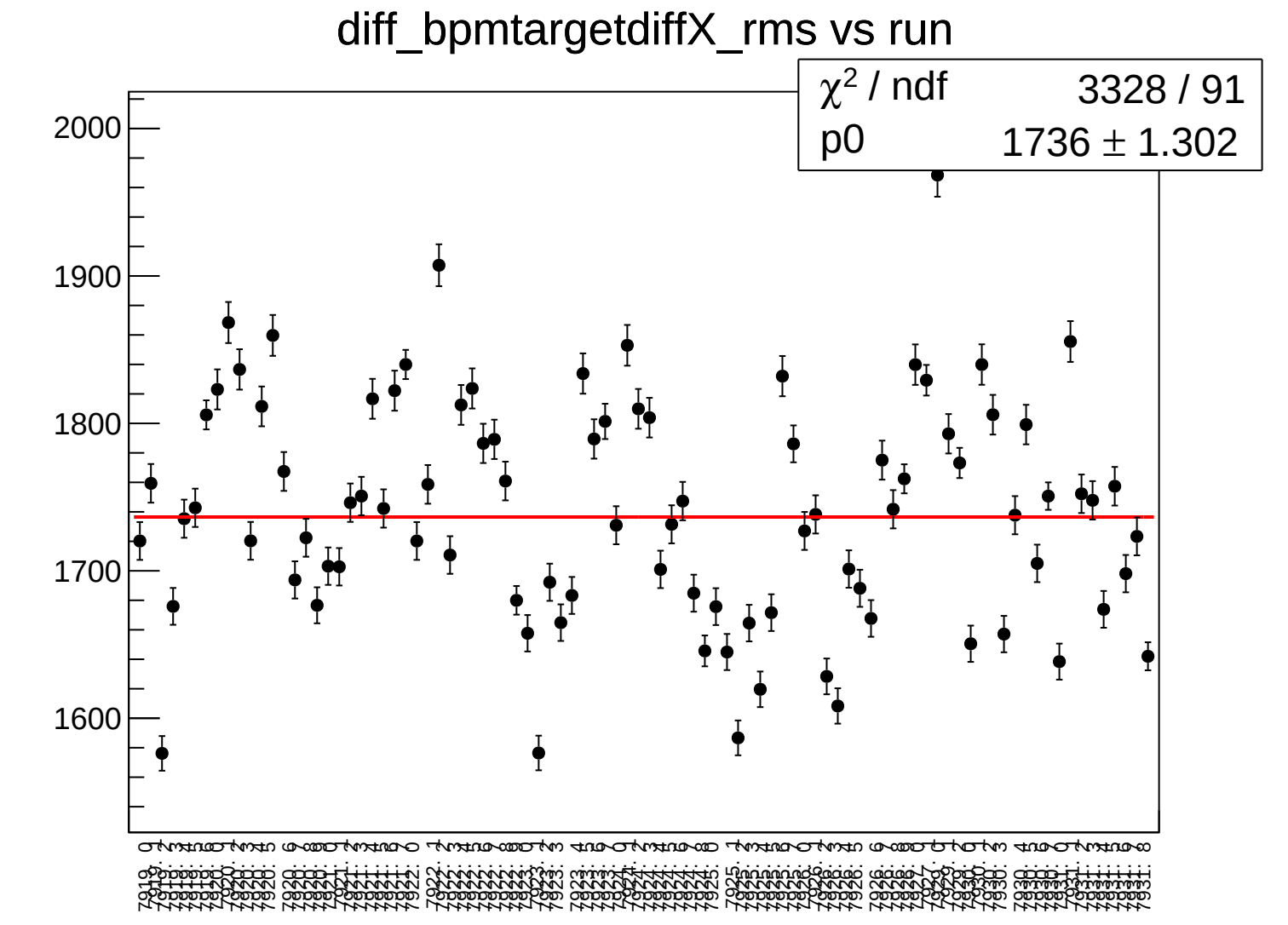

diff_bpmtargetsumX_mean vs run
χ² / ndf 100.6 / 91
p0 −66.28 ± 37.65
pull
Entries 92
Mean 1.164e+04
Std Dev 0

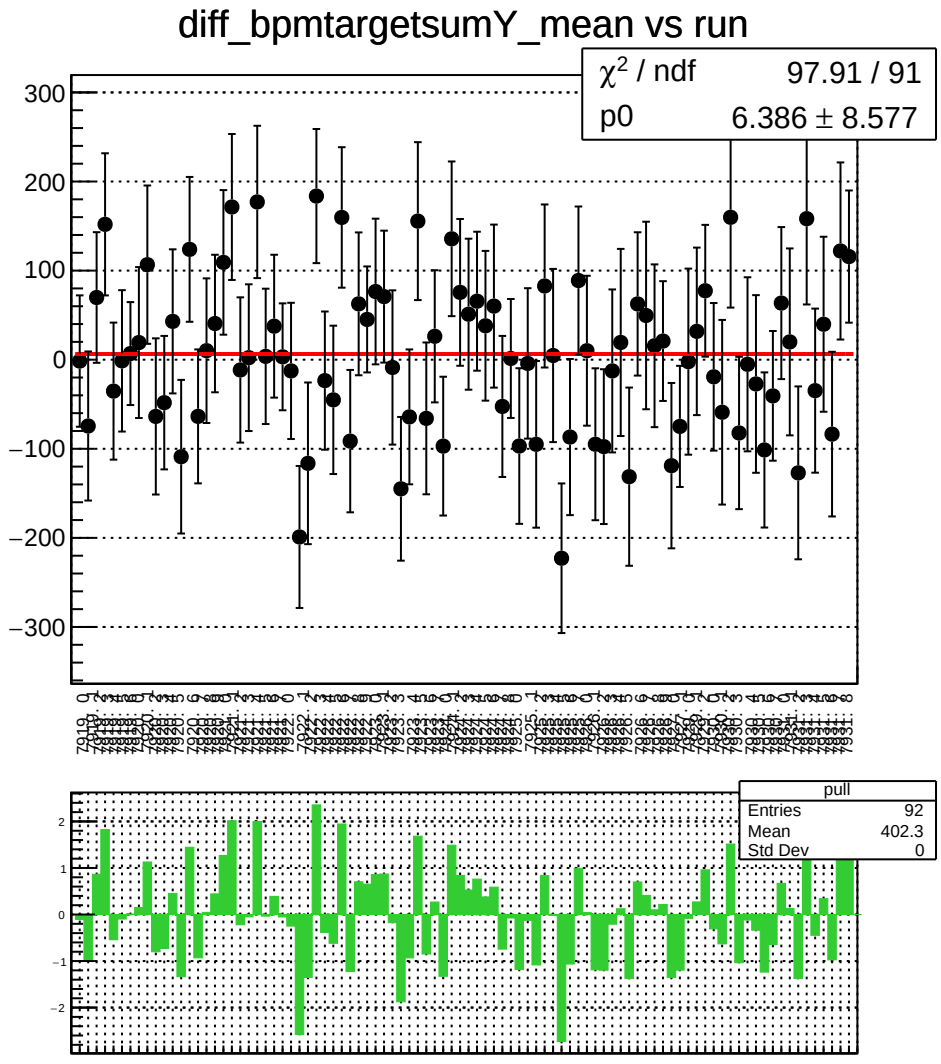

pull1D
Entries 92
Mean 0.0002485
Std Dev 1.046

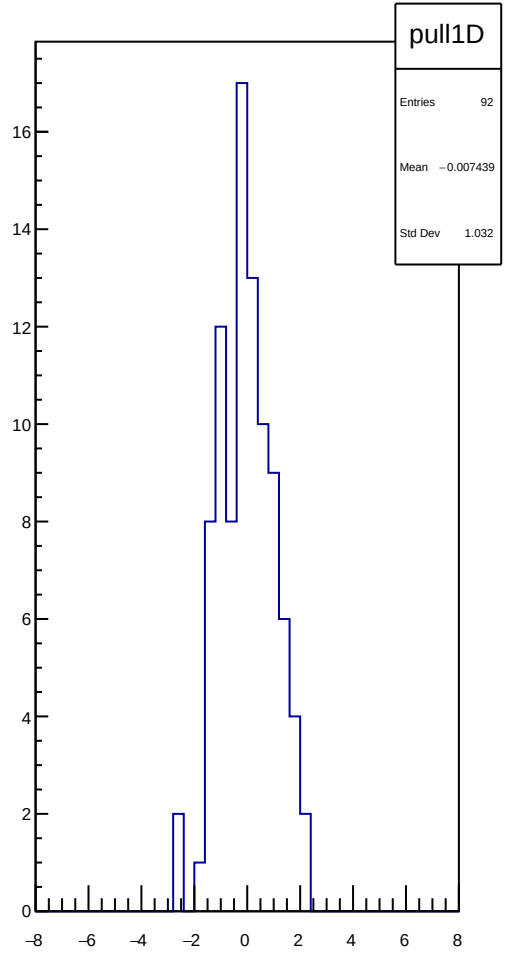

diff_bpmtargetsumX_rms vs run
χ² / ndf 4312 / 91
p0 3.55e+04 ± 26.62
42000
40000
38000
36000
34000
32000

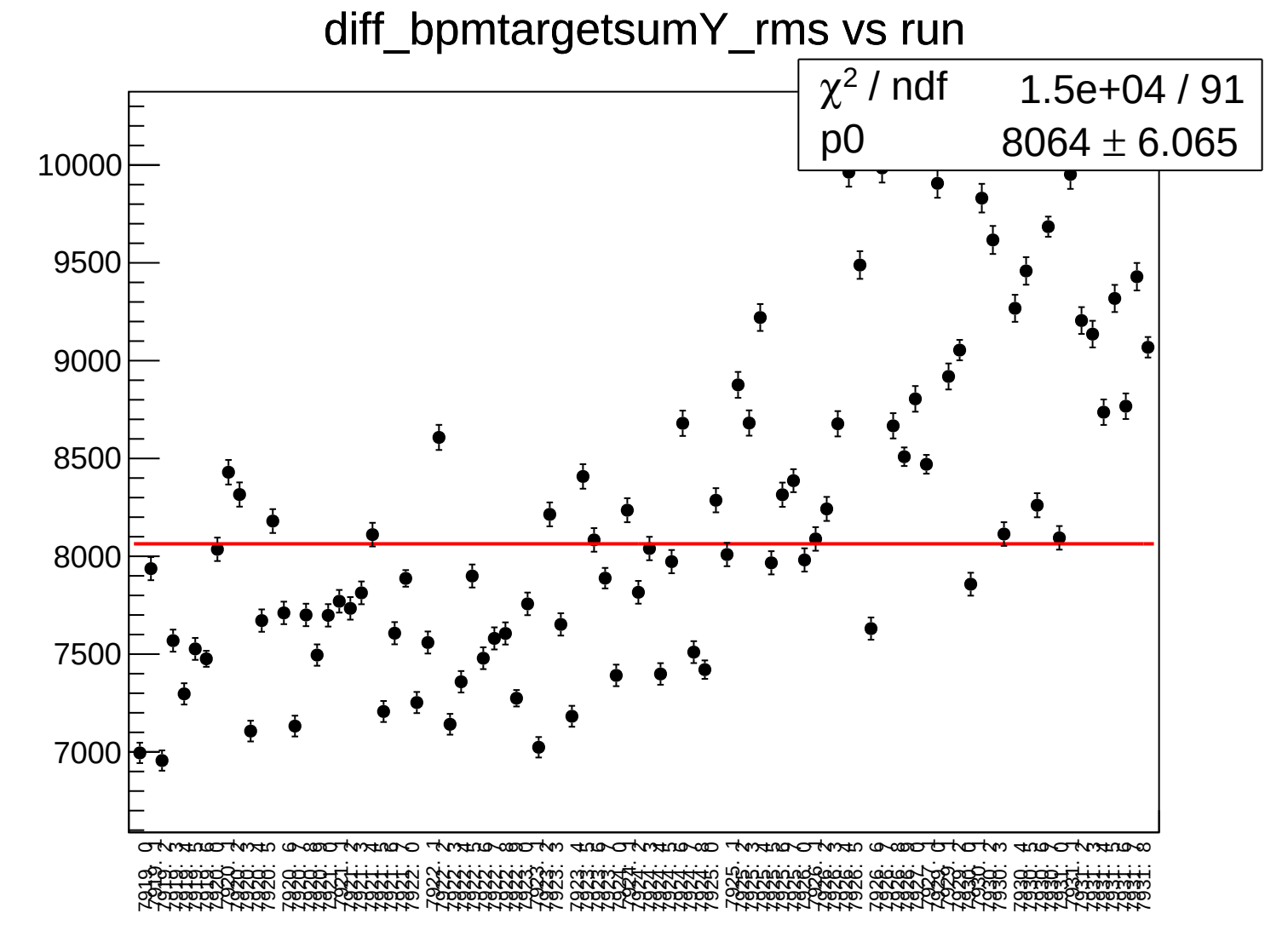

diff_bpmtargetdiffX_mean vs run
χ² / ndf 102.5 / 91
p0 2.516 ± 1.841
pull
Entries 92
Mean −570.8
Std Dev 0

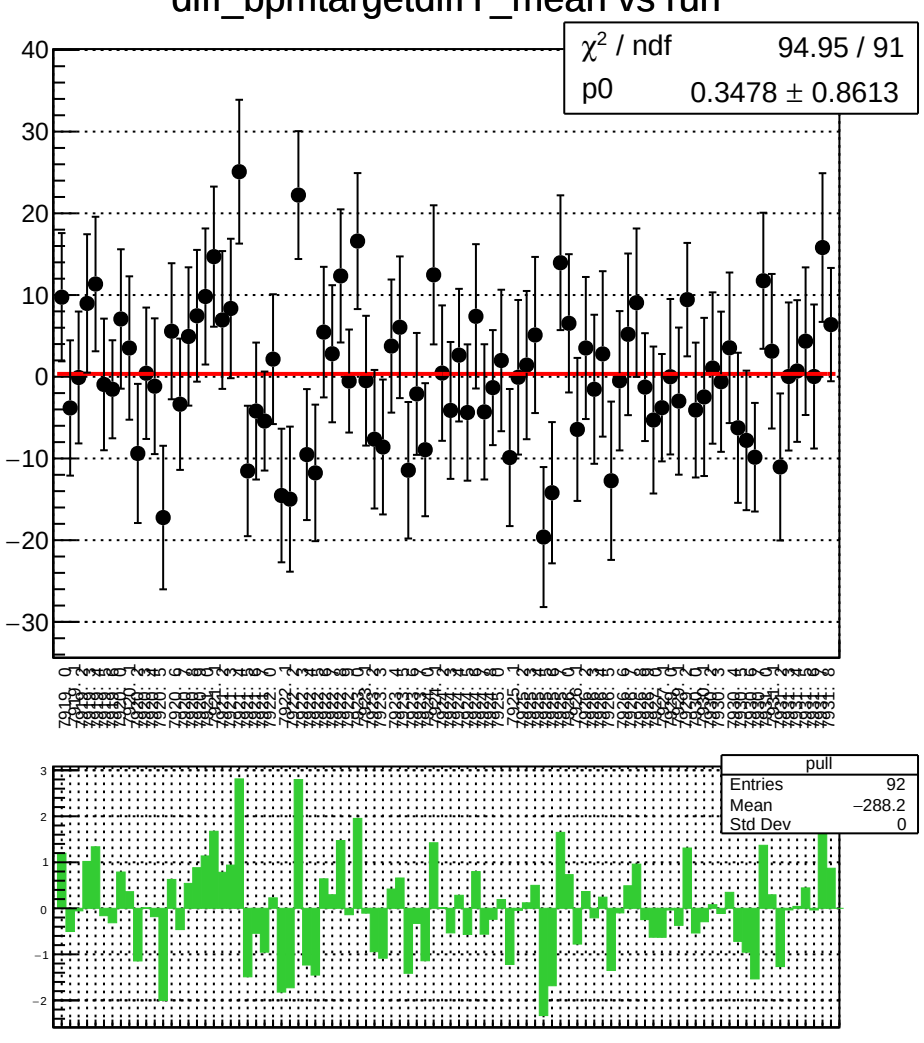

pull1D
Entries 92
Mean 0.007908
Std Dev 1.056

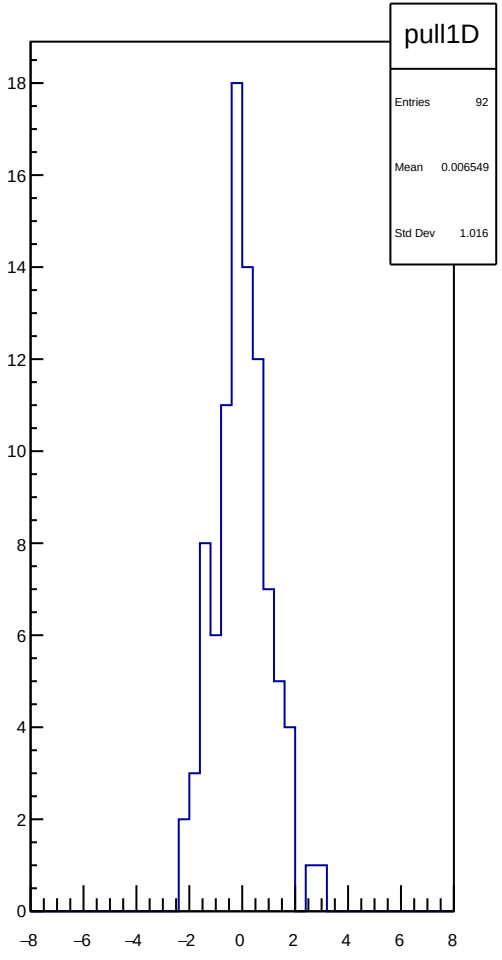

diff_bpmtargetdiffX_rms vs run
χ² / ndf 3328 / 91
p0 1736 ± 1.302
2000
1900
1800
1700
1600

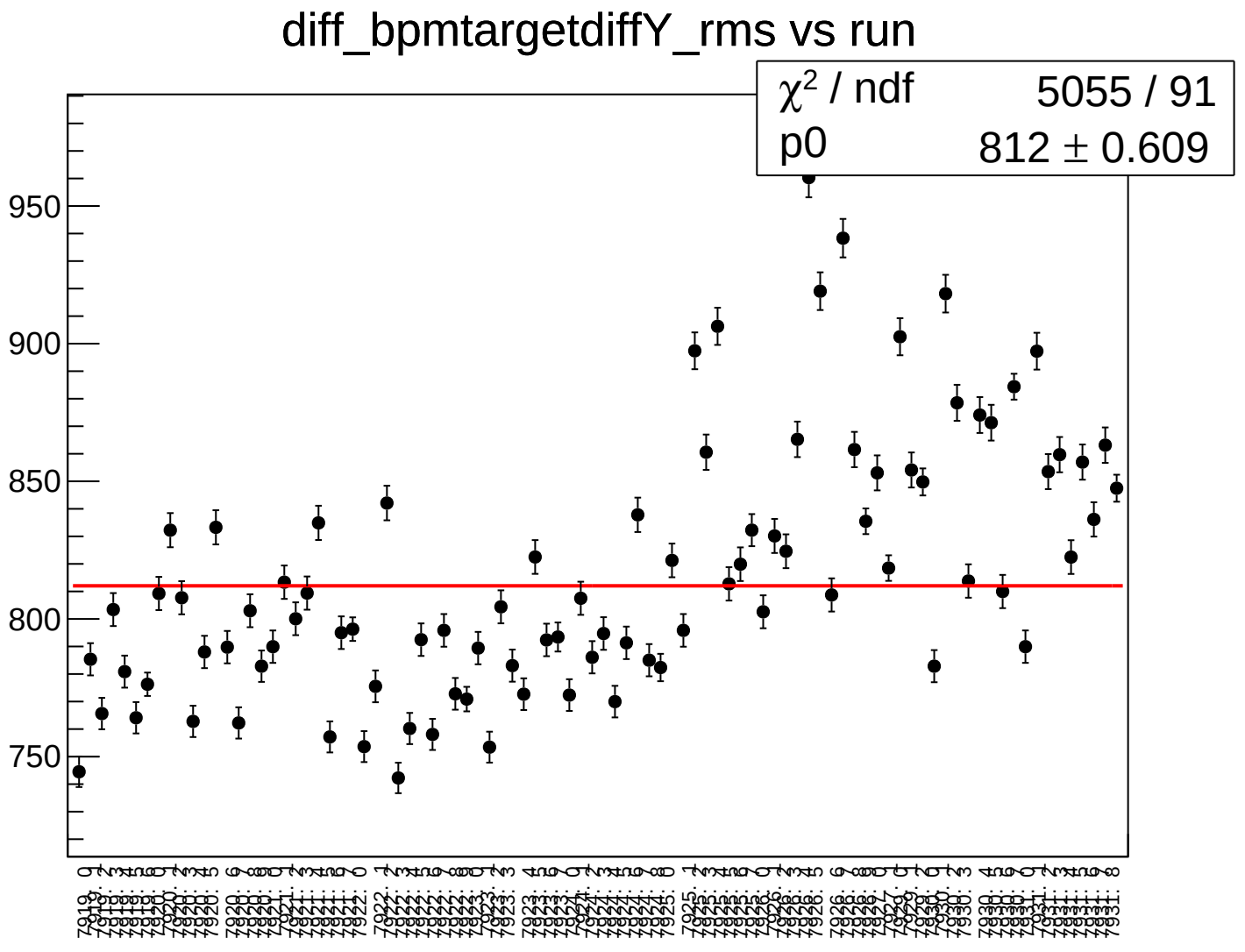

diff_bpmtargetsumY_mean vs run
χ^2 / ndf 97.91 / 91
p0 6.386 ± 8.577
pull
Entries 92
Mean 402.3
Std Dev 0

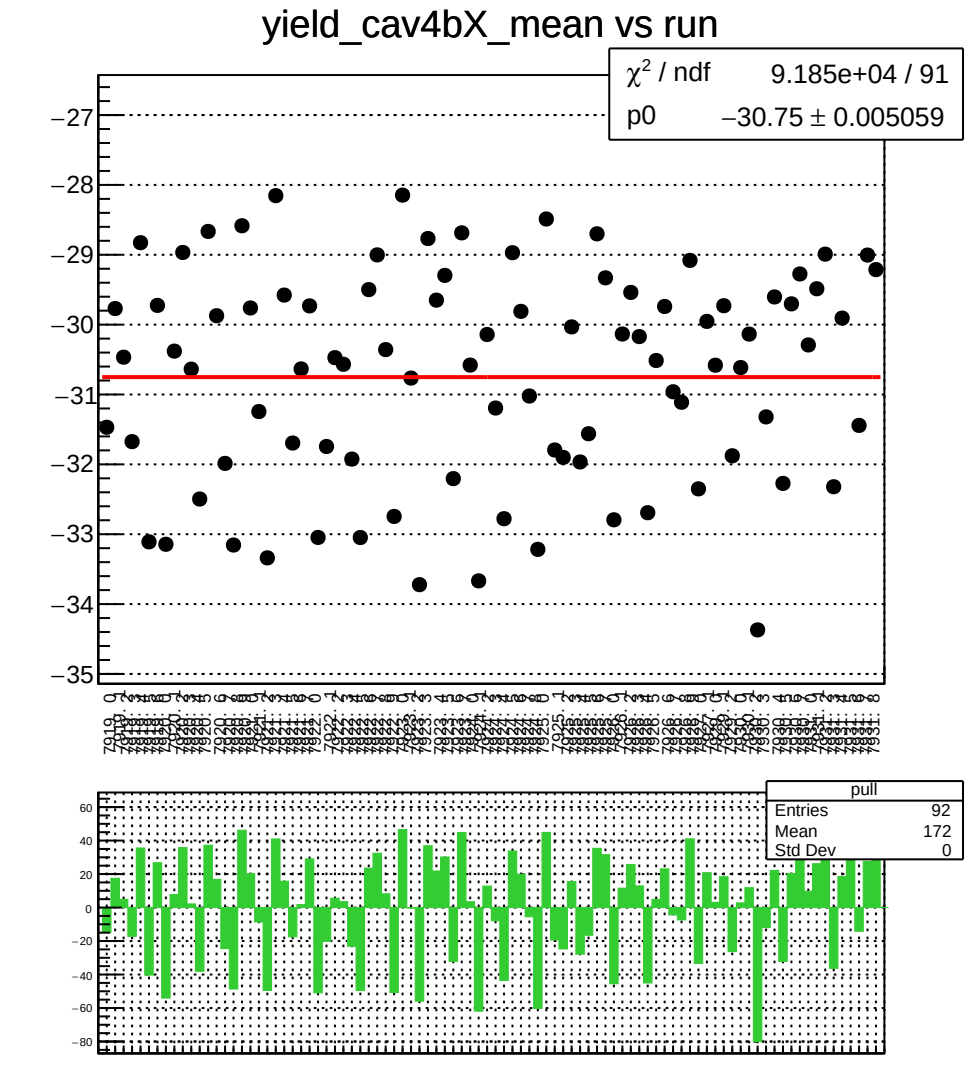

pull1D
Entries 92
Mean −0.007439
Std Dev 1.032

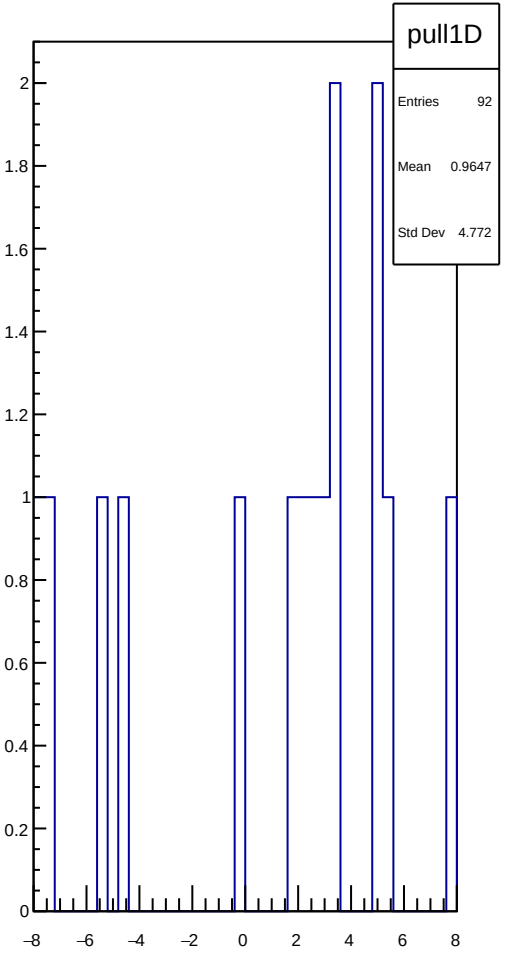

diff_bpmtargetsumY_rms vs run
χ² / ndf 1.5e+04 / 91
p0 8064 ± 6.065
10000
9500
9000
8500
8000
7500
7000

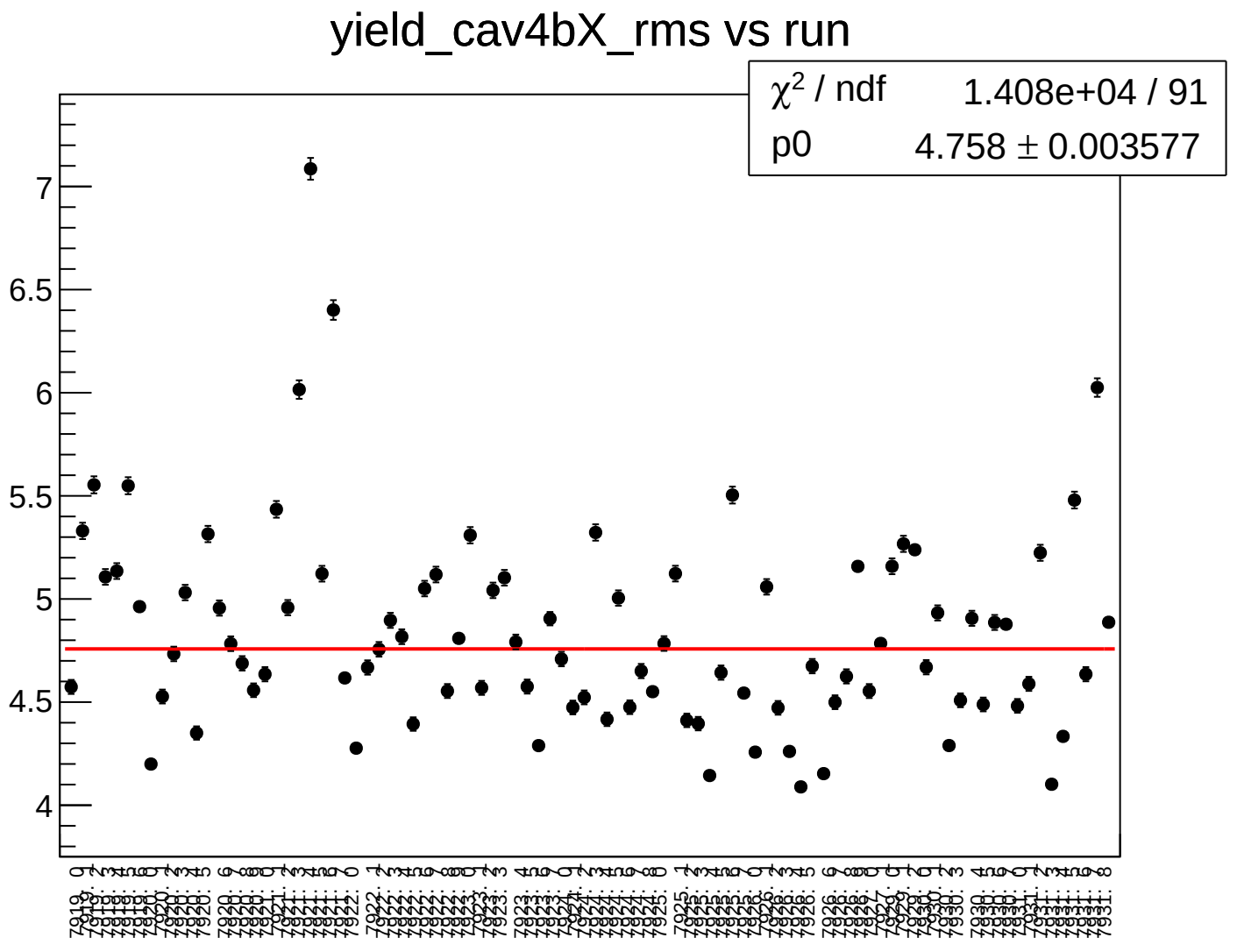

diff_bpmtargetdiffY_mean vs run
χ² / ndf 94.95 / 91
p0 0.3478 ± 0.8613
pull
Entries 92
Mean −288.2
Std Dev 0

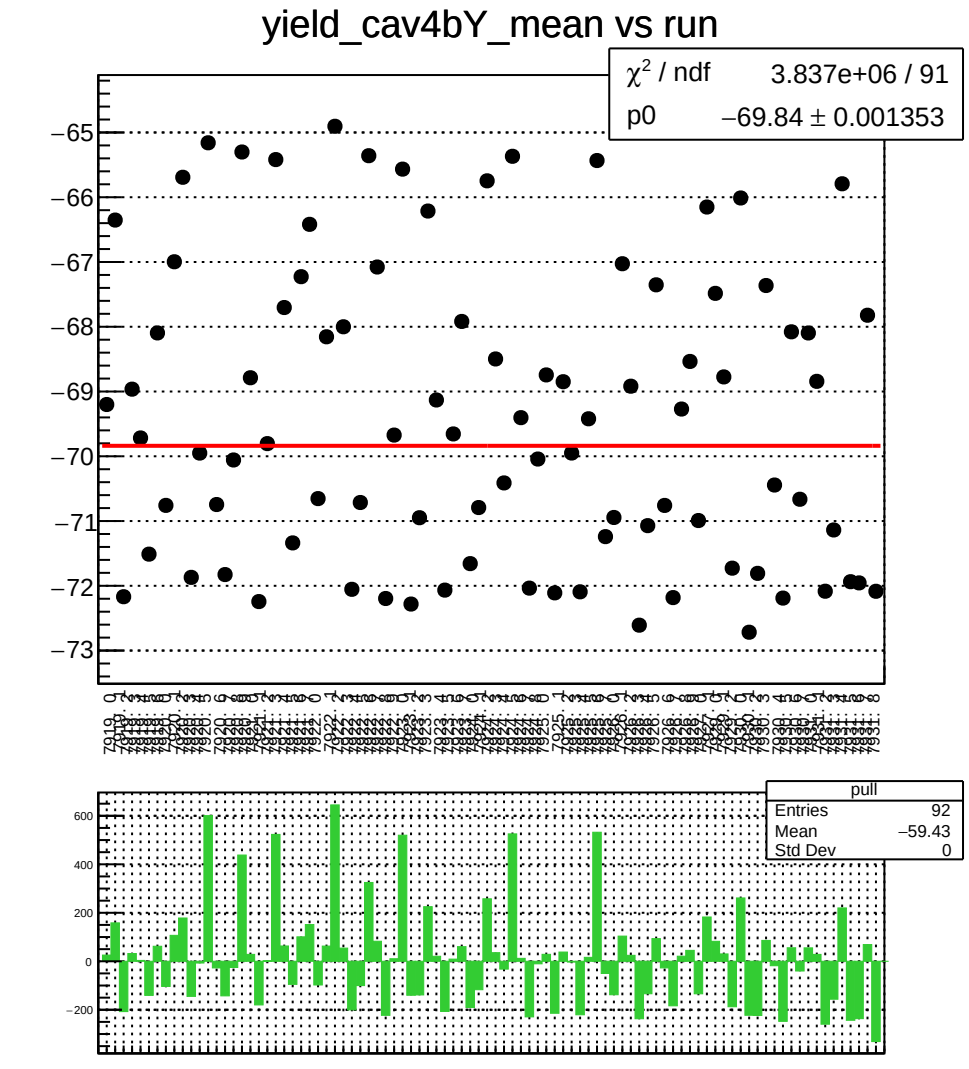

pull1D
Entries 92
Mean 0.006549
Std Dev 1.016

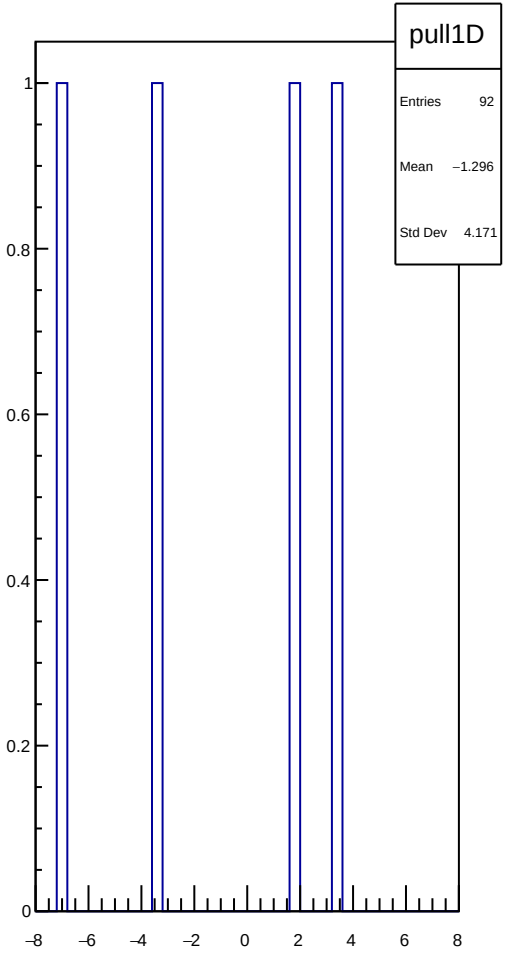

diff_bpmtargetdiffY_rms vs run
χ² / ndf 5055 / 91
p0 812 ± 0.609
950
900
850
800
750

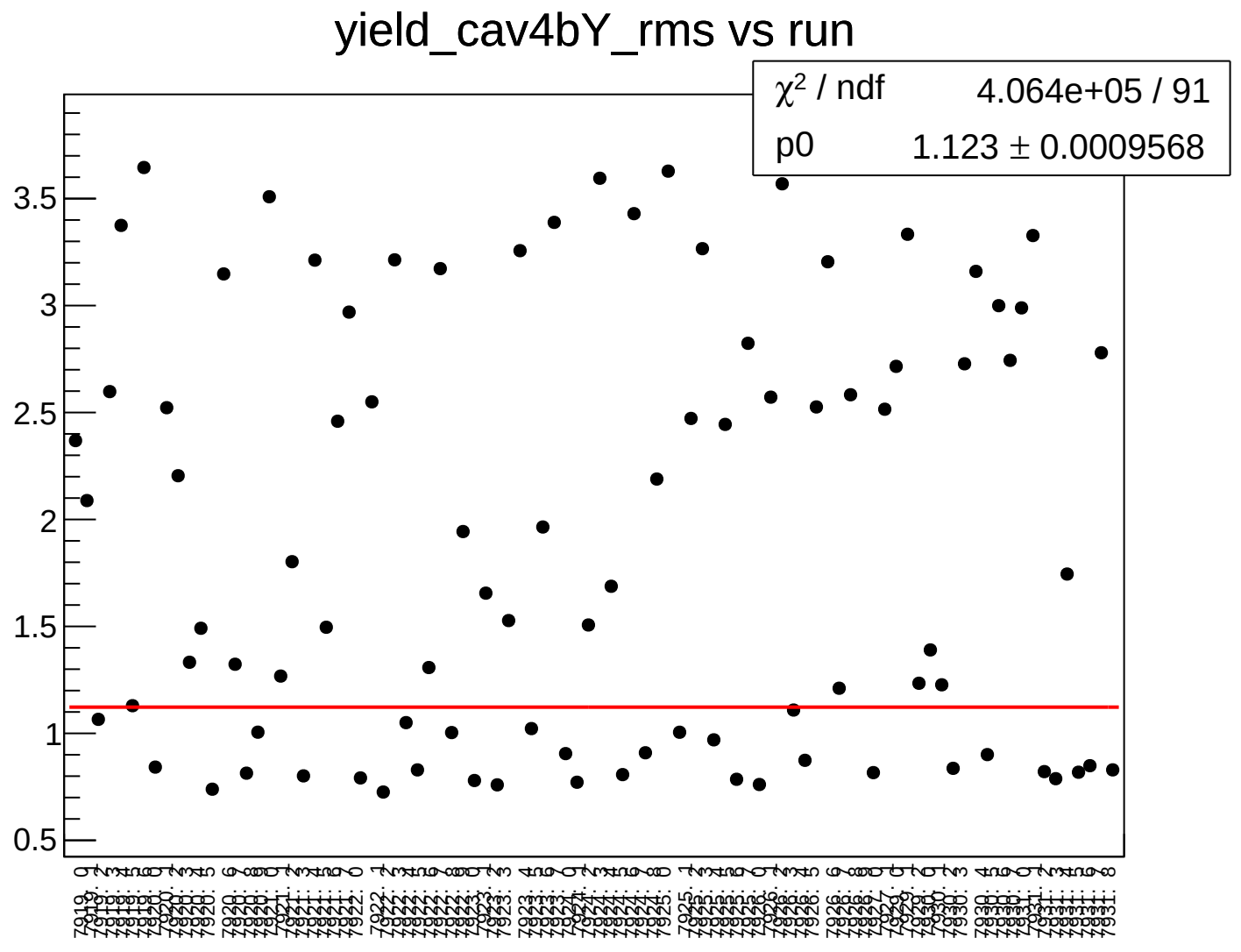

yield_cav4bX_mean vs run
χ² / ndf 9.185e+04 / 91
p0 −30.75 ± 0.005059
pull
Entries 92
Mean 172
Std Dev 0

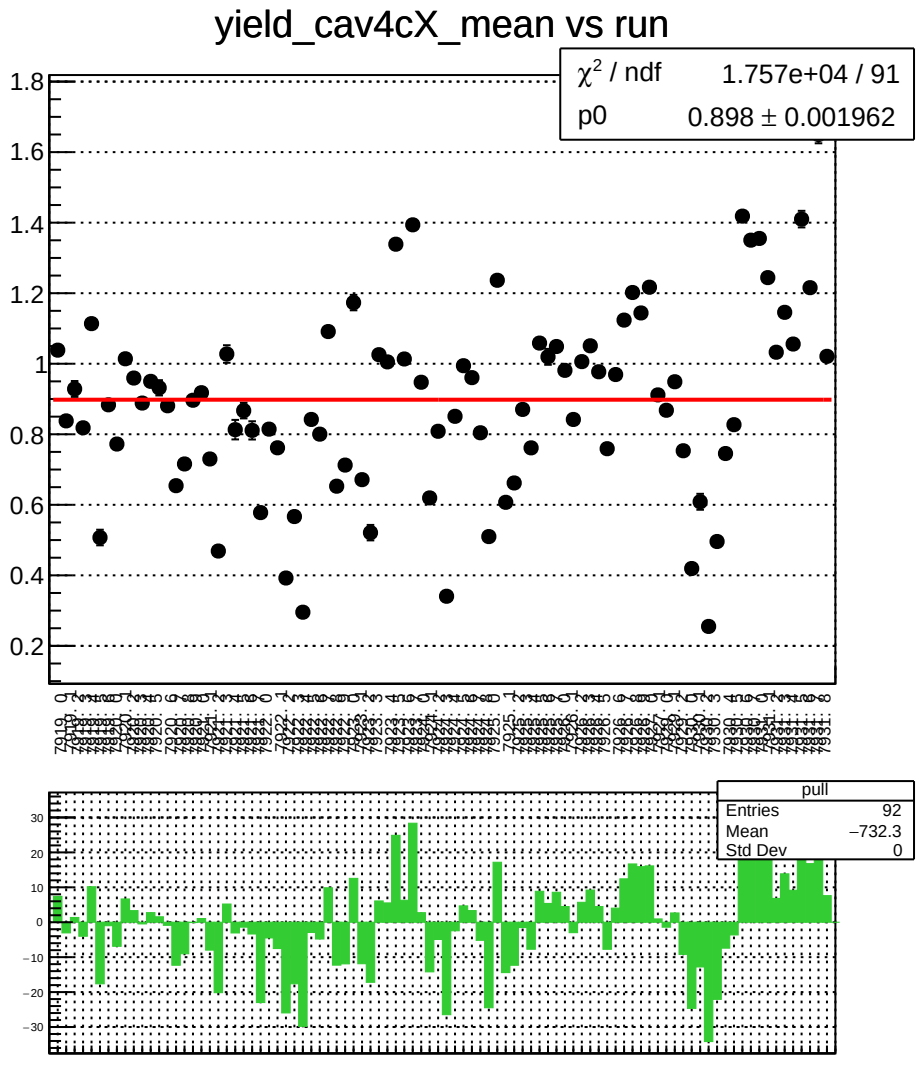

pull1D
Entries 92
Mean 0.9647
Std Dev 4.772

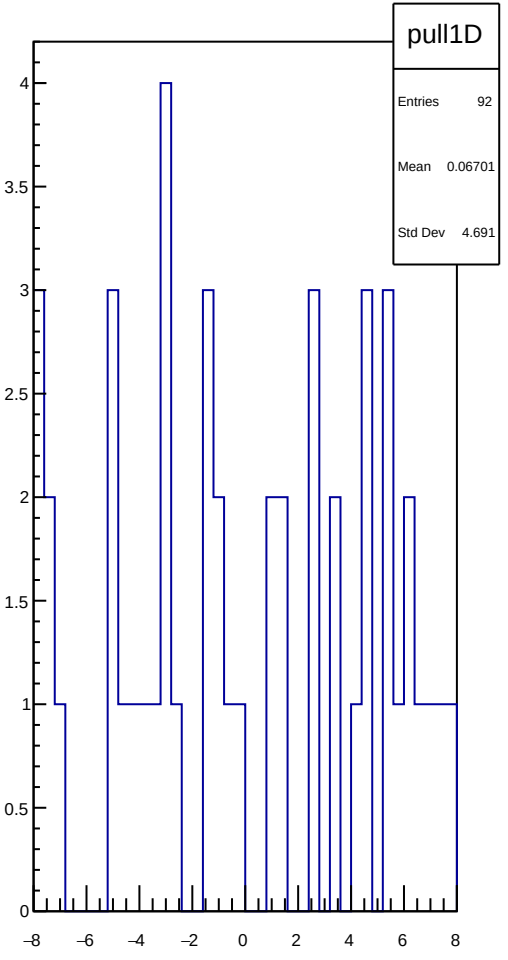

yield_cav4bX_rms vs run
χ^2 / ndf 1.408e+04 / 91
p0 4.758 ± 0.003577
7
6.5
6
5.5
5
4.5
4

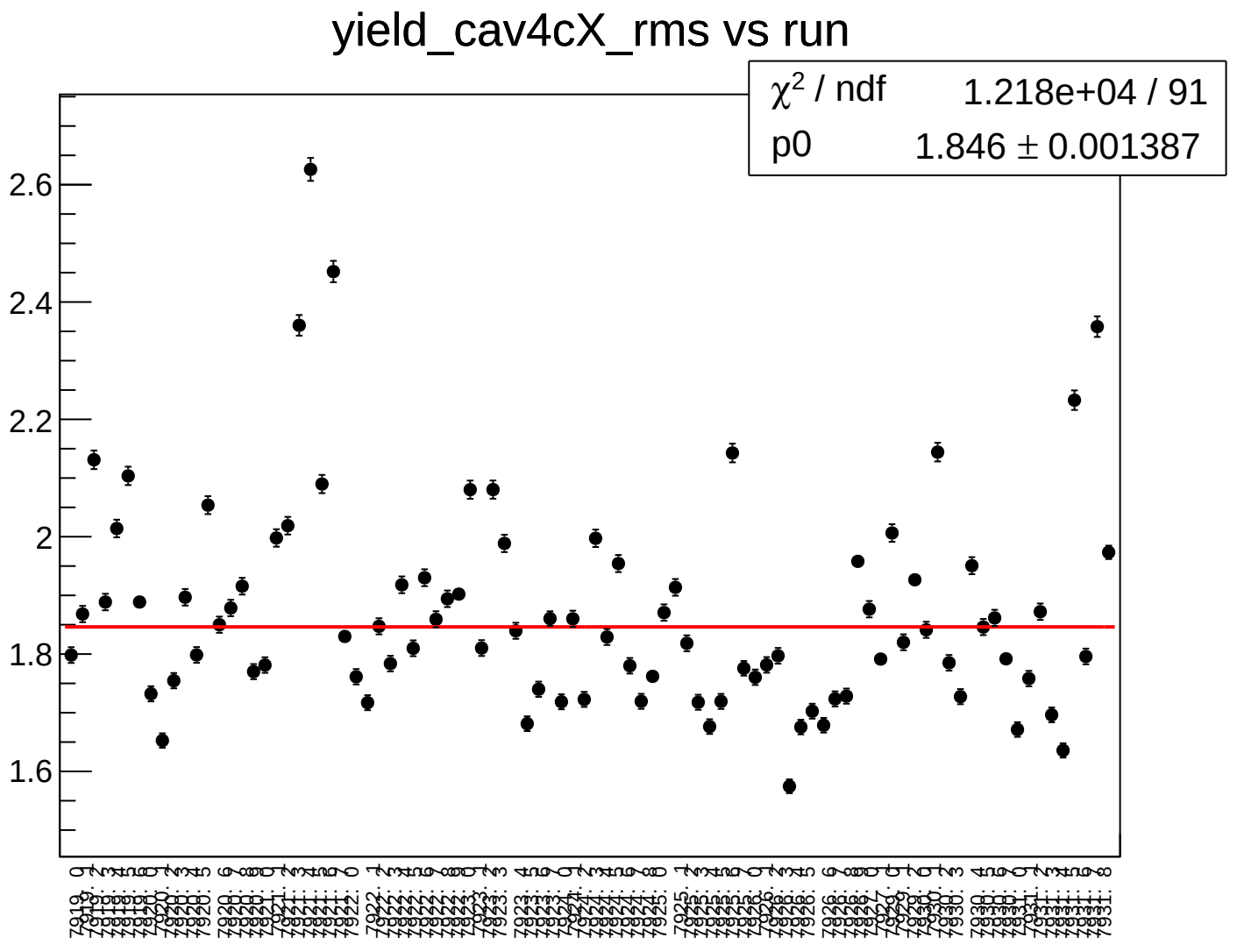

yield_cav4bY_mean vs run
χ² / ndf 3.837e+06 / 91
p0 −69.84 ± 0.001353
−65
−66
−67
−68
−69
−70
−71
−72
−73
pull
Entries 92
Mean −59.43
Std Dev 0
600
400
200
0
−200

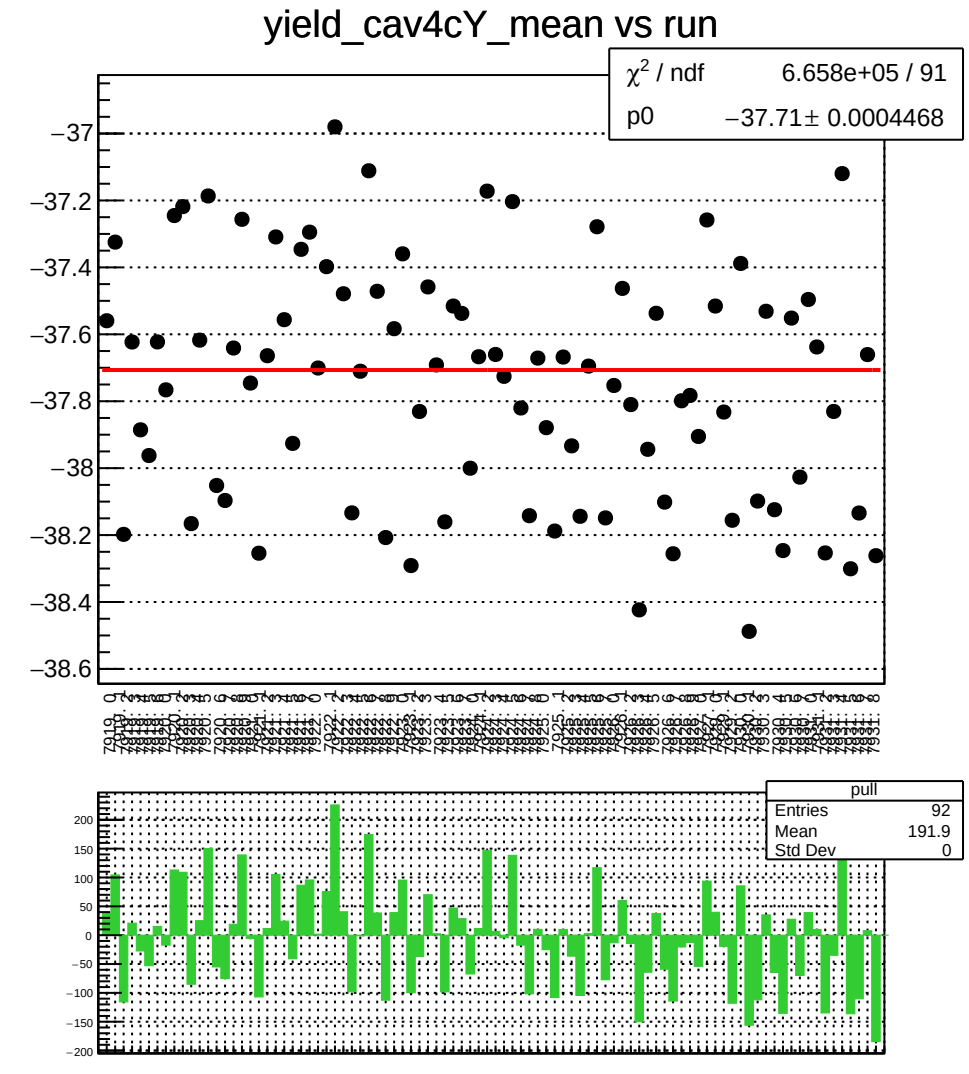

pull1D
Entries 92
Mean −1.296
Std Dev 4.171
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

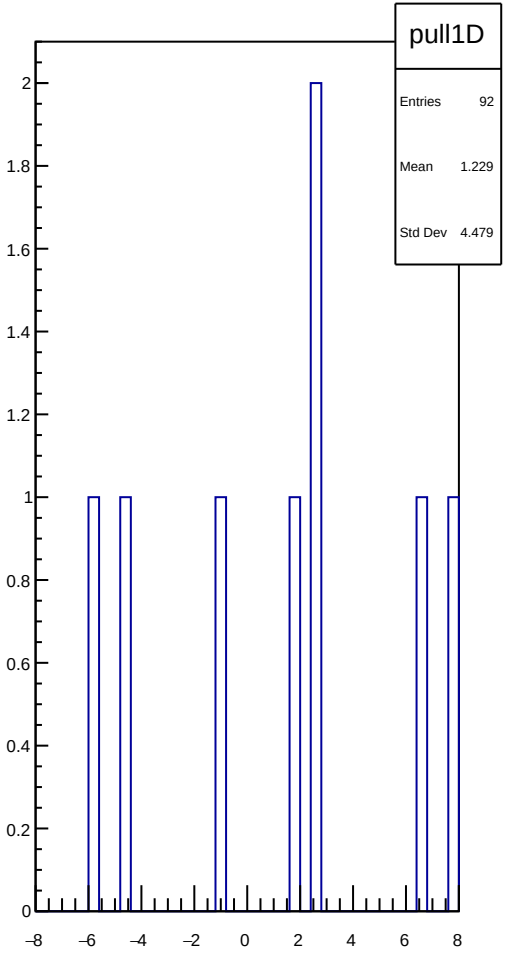

yield_cav4bY_rms vs run
χ² / ndf 4.064e+05 / 91
p0 1.123 ± 0.0009568
3.5
3
2.5
2
1.5
1
0.5

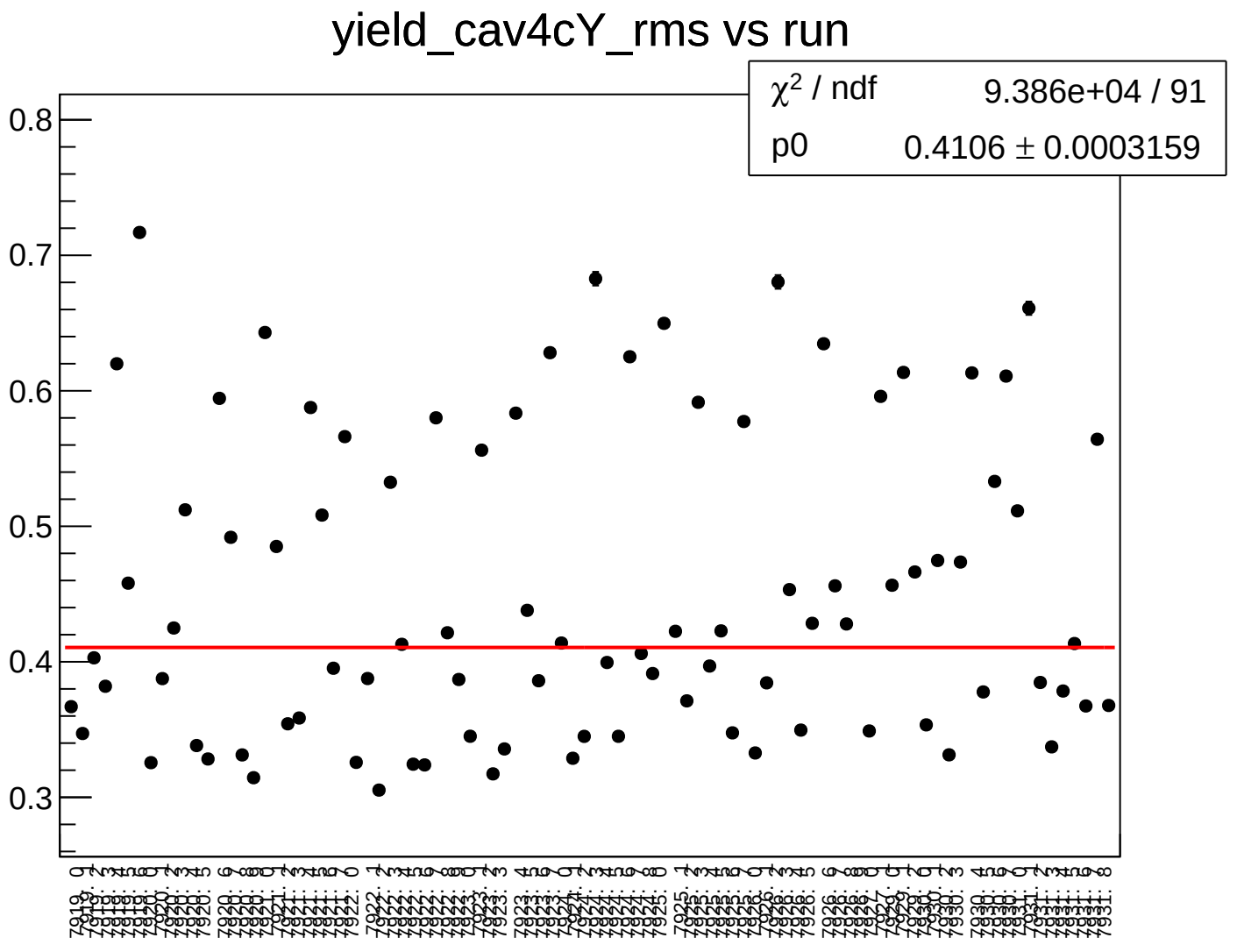

yield_cav4cX_mean vs run
χ² / ndf 1.757e+04 / 91
p0 0.898 ± 0.001962
pull
Entries 92
Mean −732.3
Std Dev 0

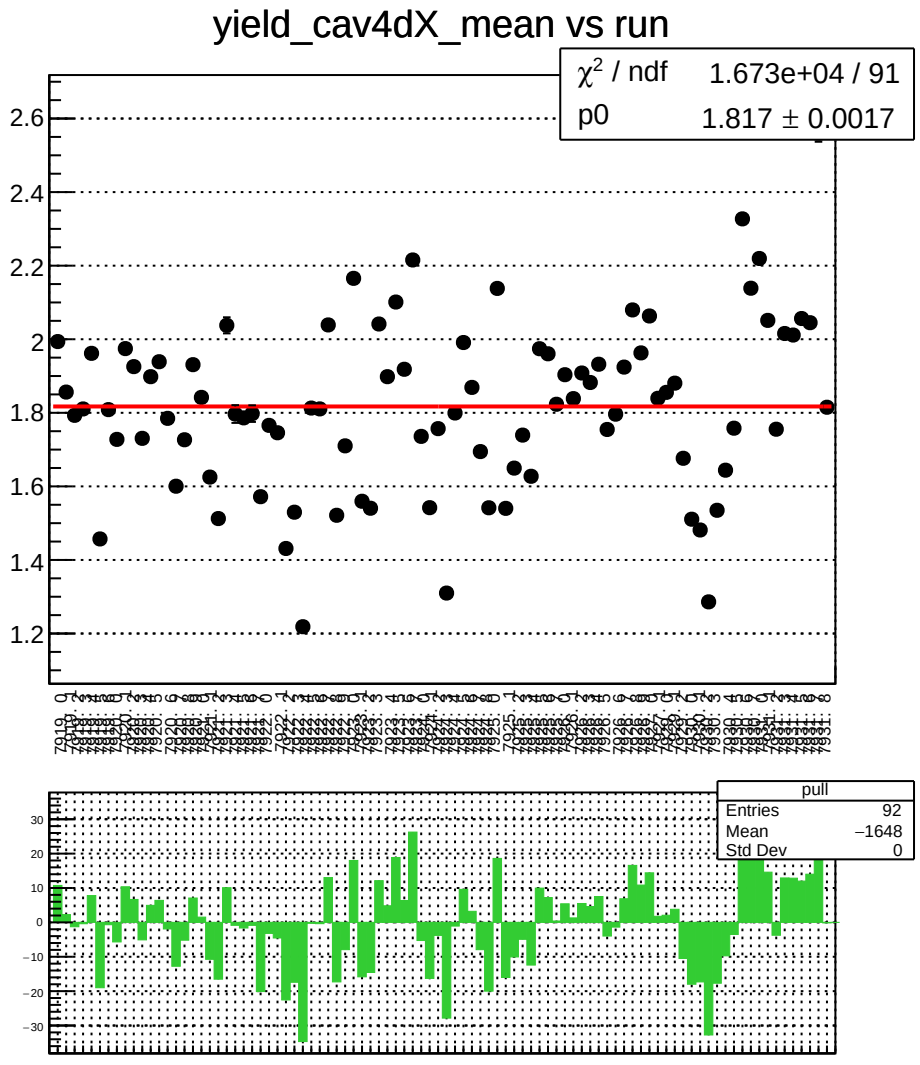

pull1D
Entries 92
Mean 0.06701
Std Dev 4.691

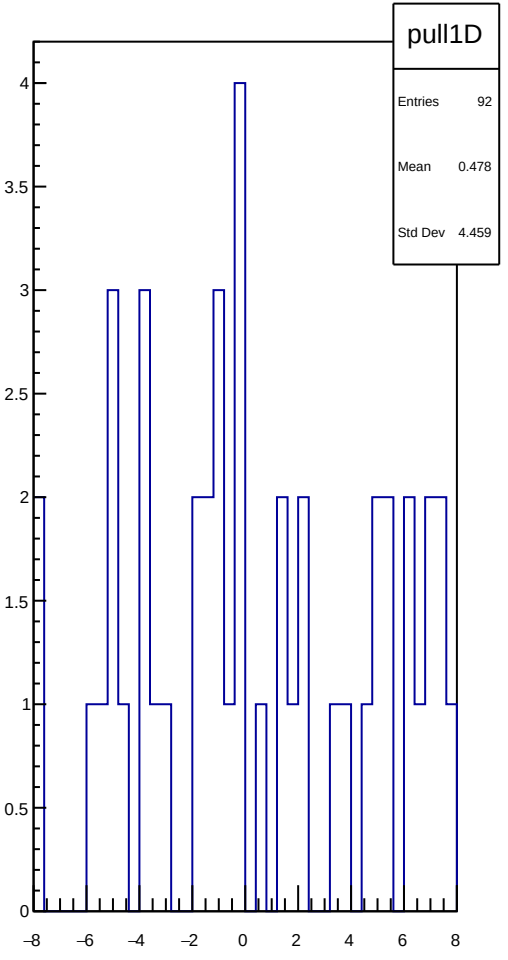

yield_cav4cX_rms vs run
χ^2 / ndf 1.218e+04 / 91
p0 1.846 ± 0.001387
2.6
2.4
2.2
2
1.8
1.6

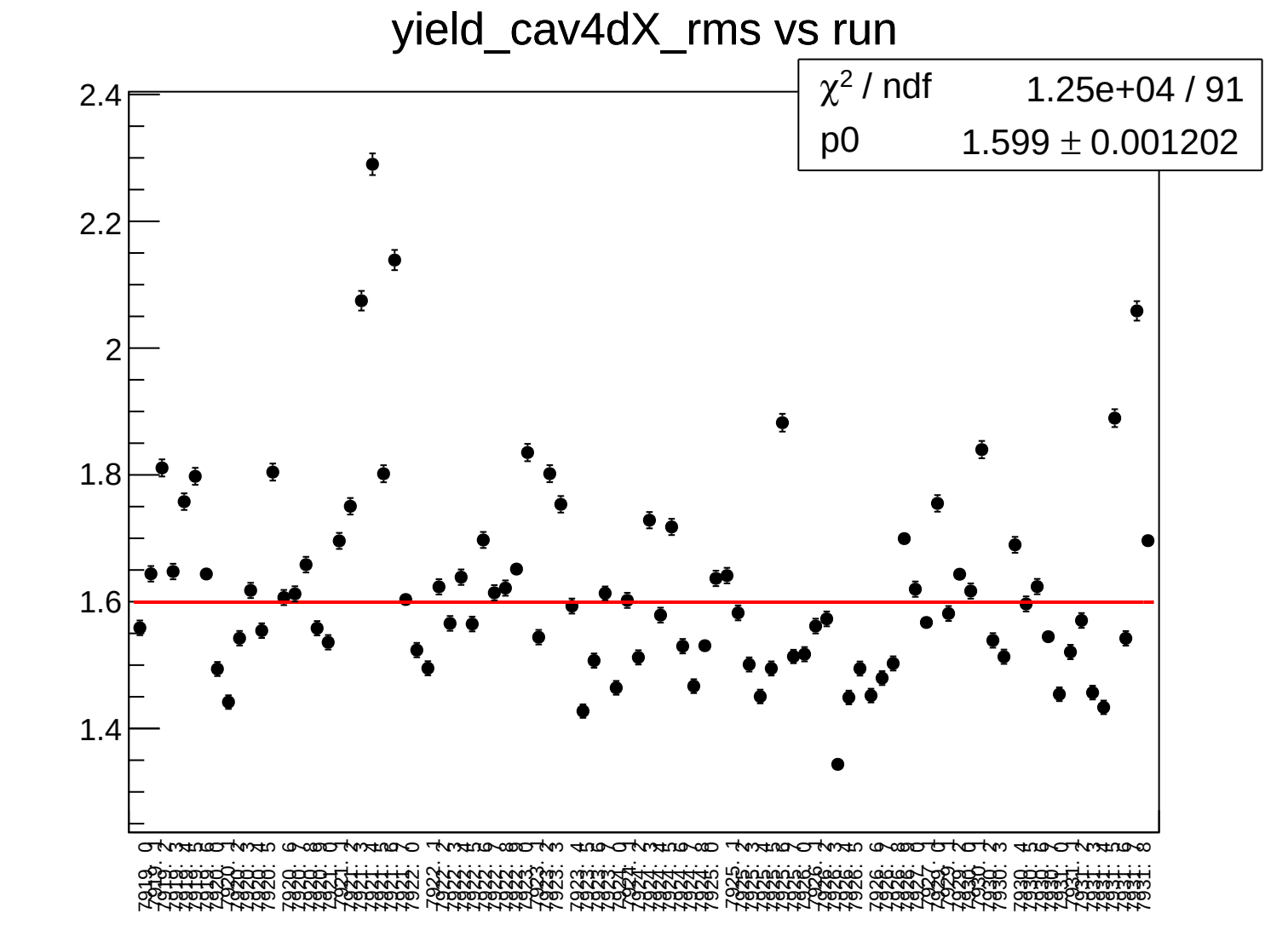

yield_cav4cY_mean vs run
χ² / ndf 6.658e+05 / 91
p0 −37.71± 0.0004468
−37
−37.2
−37.4
−37.6
−37.8
−38
−38.2
−38.4
−38.6
pull
Entries 92
Mean 191.9
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200

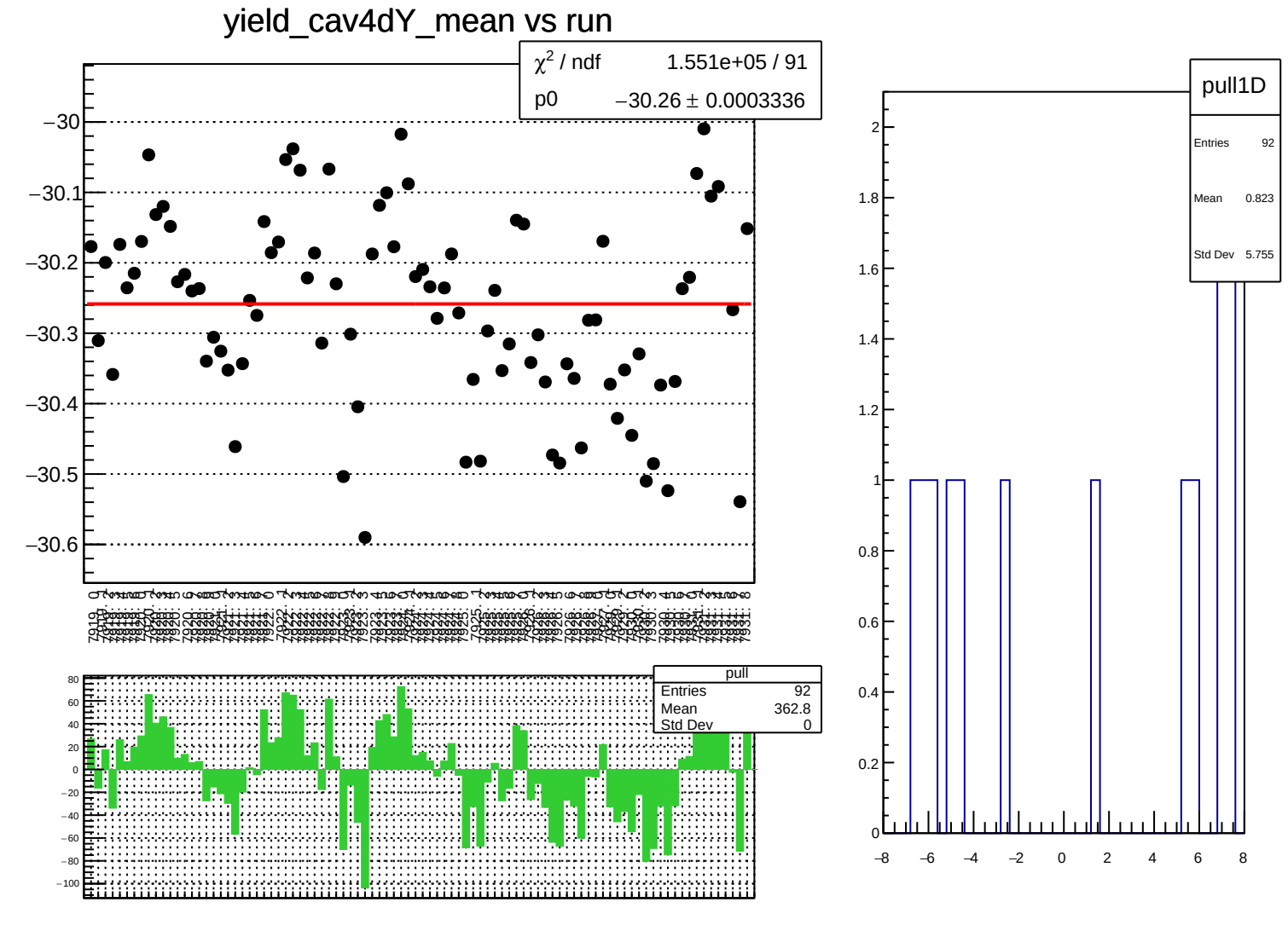

pull1D
Entries 92
Mean 1.229
Std Dev 4.479
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

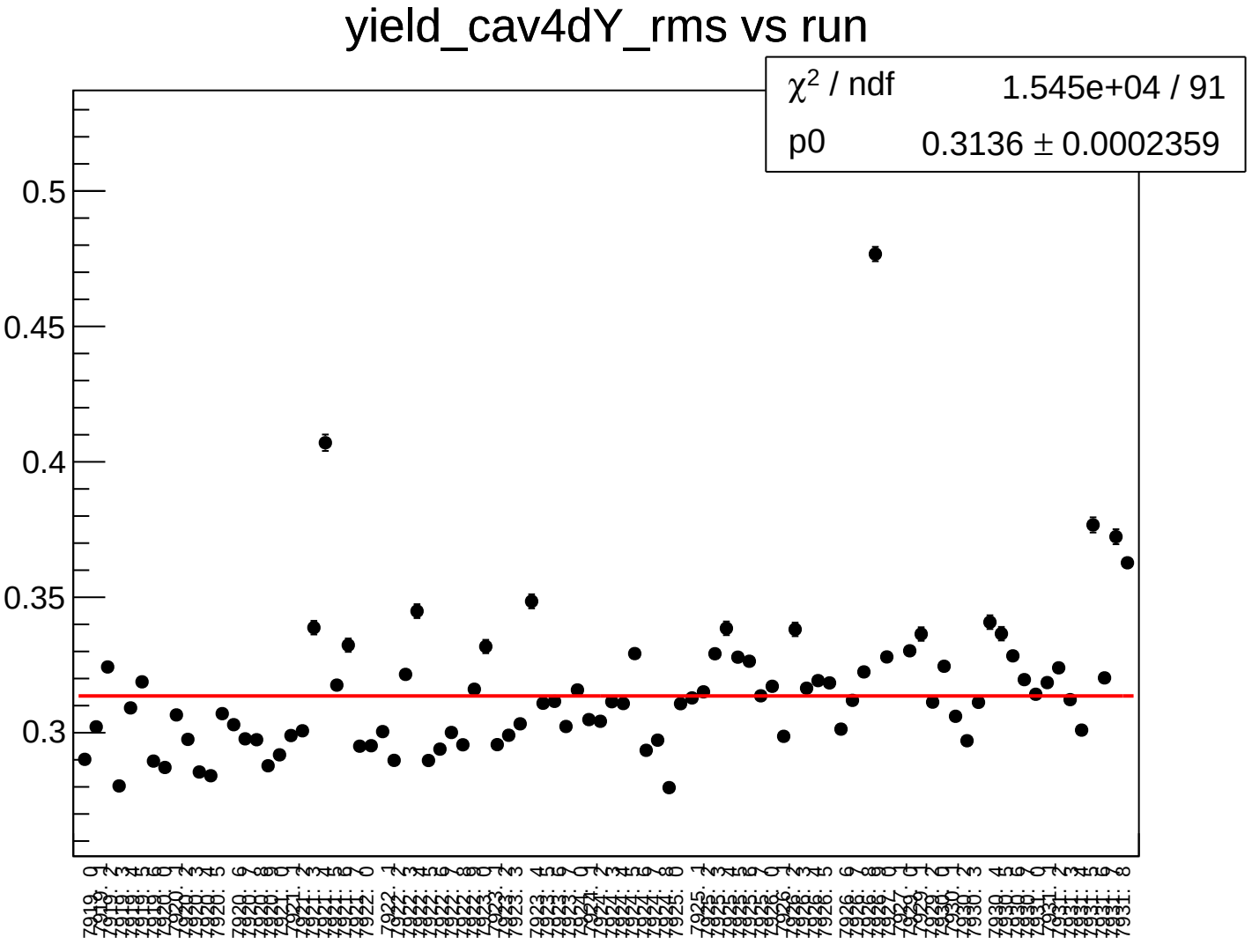

yield_cav4cY_rms vs run
χ² / ndf 9.386e+04 / 91
p0 0.4106 ± 0.0003159
0.8
0.7
0.6
0.5
0.4
0.3

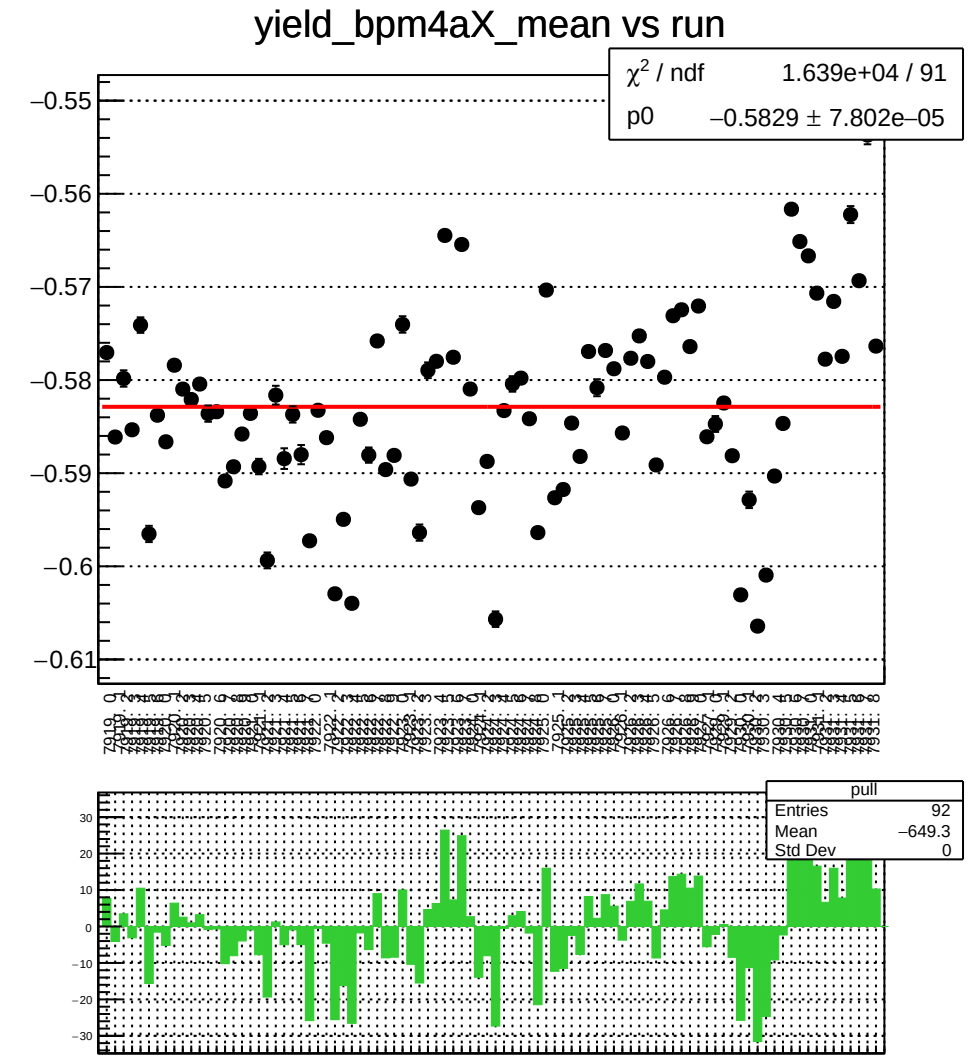

yield_cav4dX_mean vs run
χ² / ndf 1.673e+04 / 91
p0 1.817 ± 0.0017
pull
Entries 92
Mean −1648
Std Dev 0

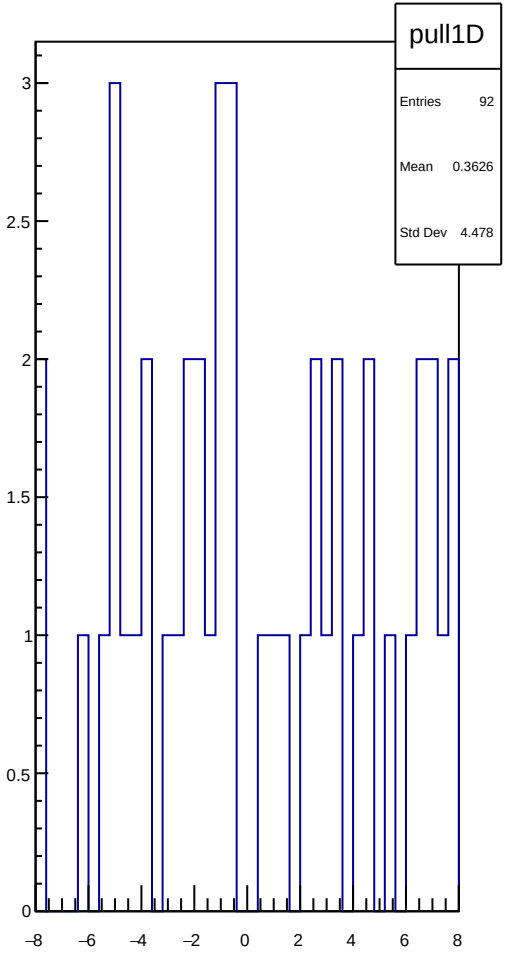

pull1D
Entries 92
Mean 0.478
Std Dev 4.459

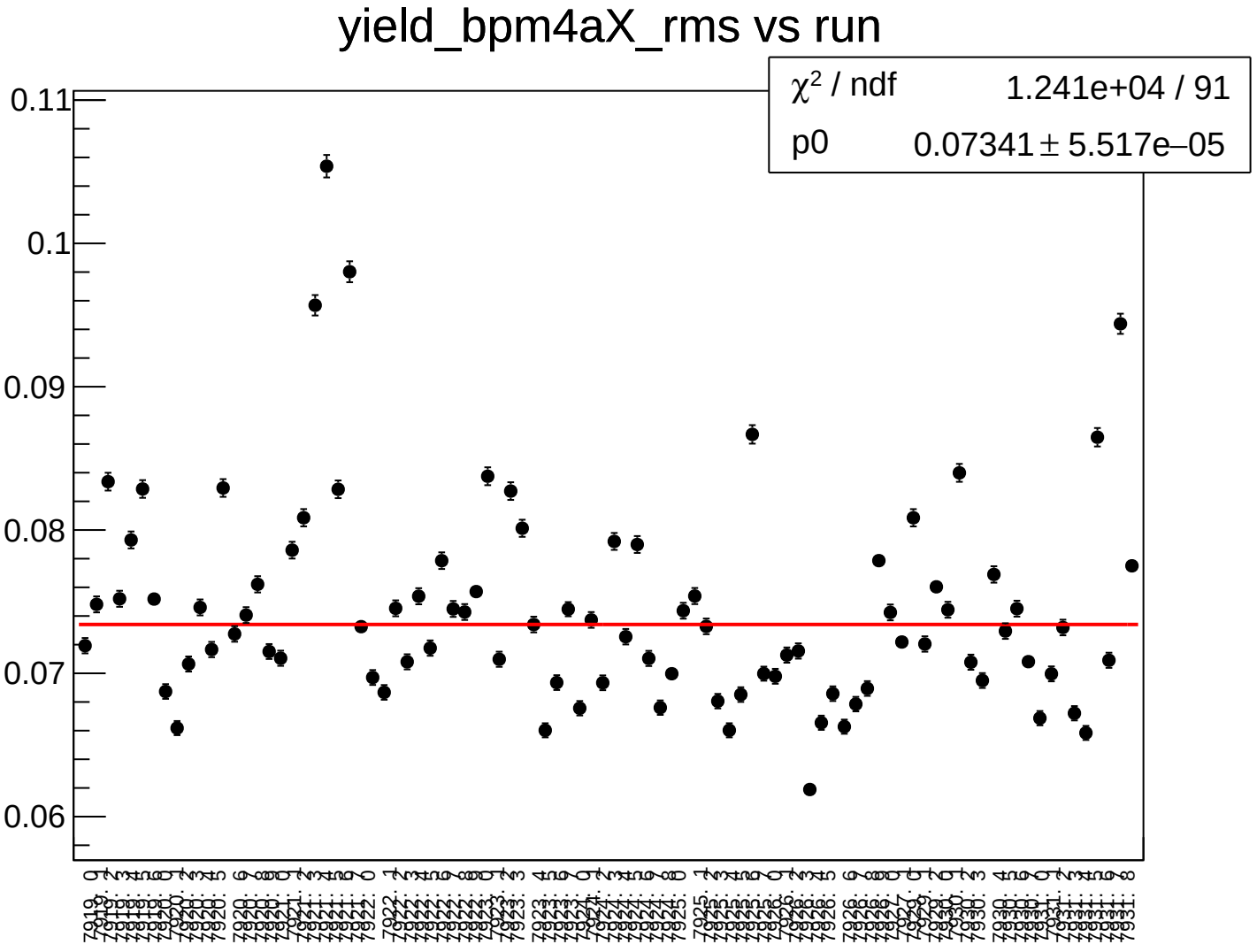

yield_cav4dX_rms vs run
χ² / ndf 1.25e+04 / 91
p0 1.599 ± 0.001202
2.4
2.2
2
1.8
1.6
1.4

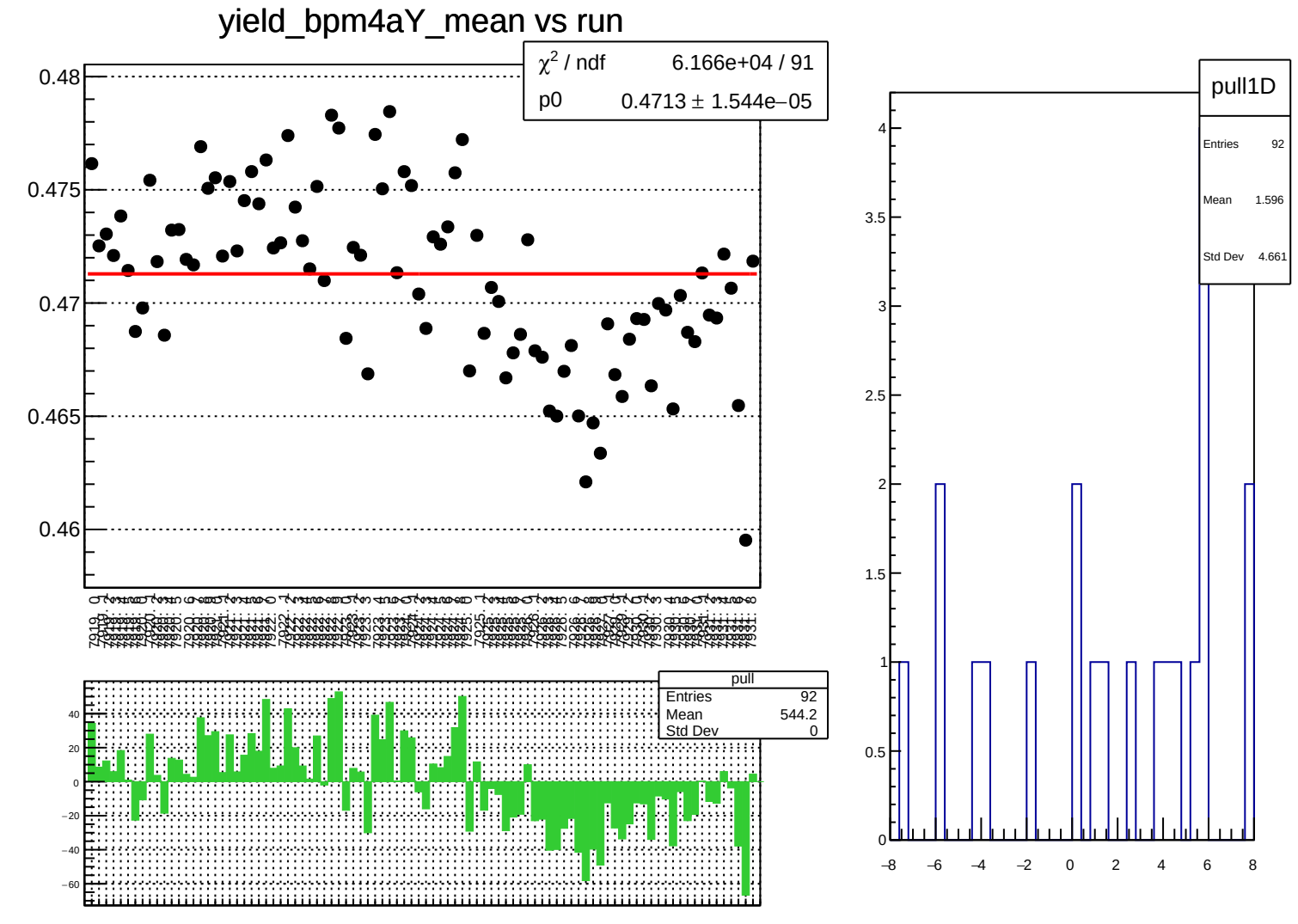

yield_cav4dY_mean vs run
χ² / ndf 1.551e+05 / 91
p0 −30.26 ± 0.0003336
pull
Entries 92
Mean 362.8
Std Dev 0
pull1D
Entries 92
Mean 0.823
Std Dev 5.755

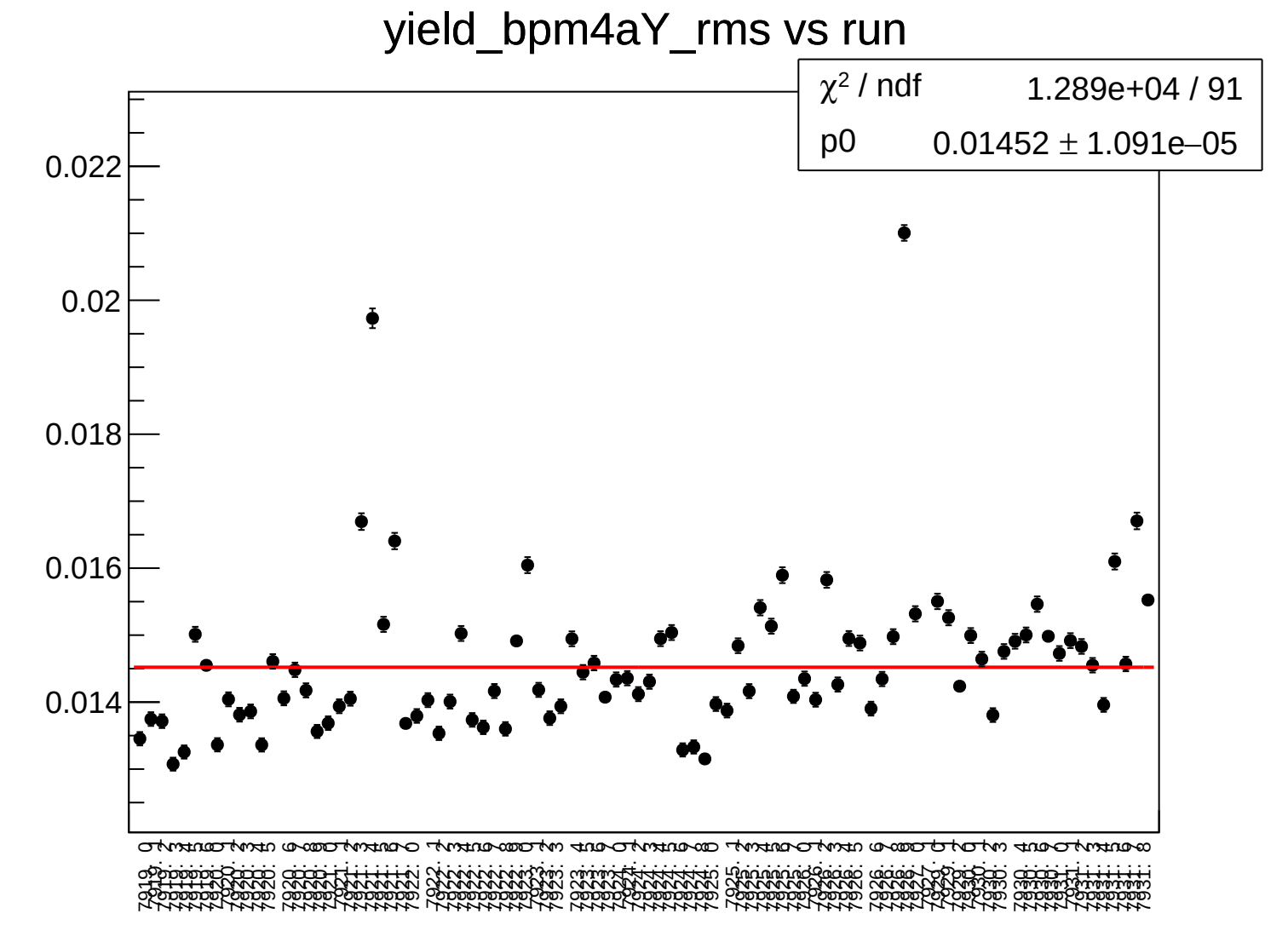

yield_cav4dY_rms vs run
χ² / ndf 1.545e+04 / 91
p0 0.3136 ± 0.0002359
0.5
0.45
0.4
0.35
0.3

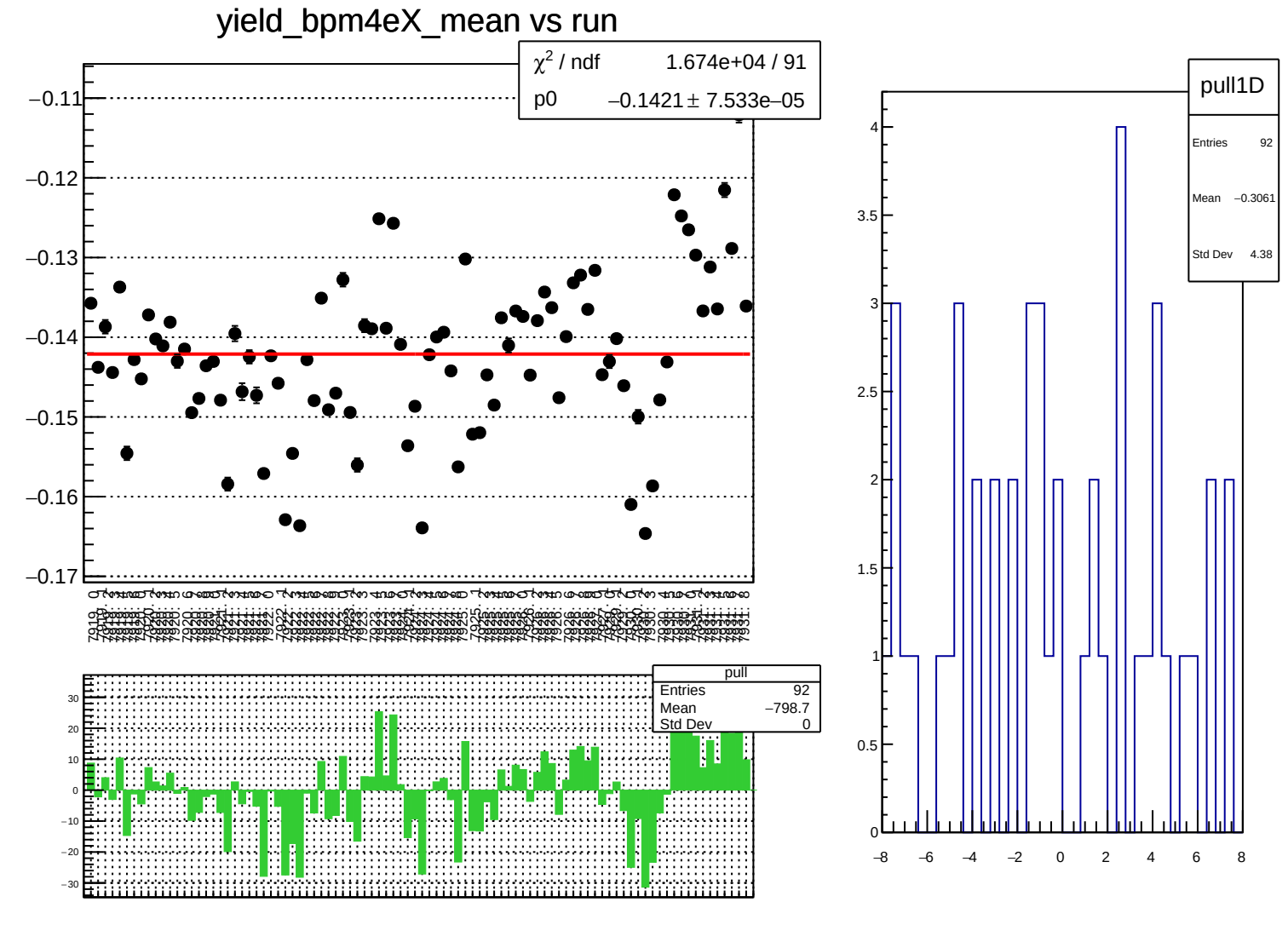

yield_bpm4aX_mean vs run
χ² / ndf 1.639e+04 / 91
p0 −0.5829 ± 7.802e−05
−0.55
−0.56
−0.57
−0.58
−0.59
−0.6
−0.61
pull
Entries 92
Mean −649.3
Std Dev 0
30
20
10
0
−10
−20
−30

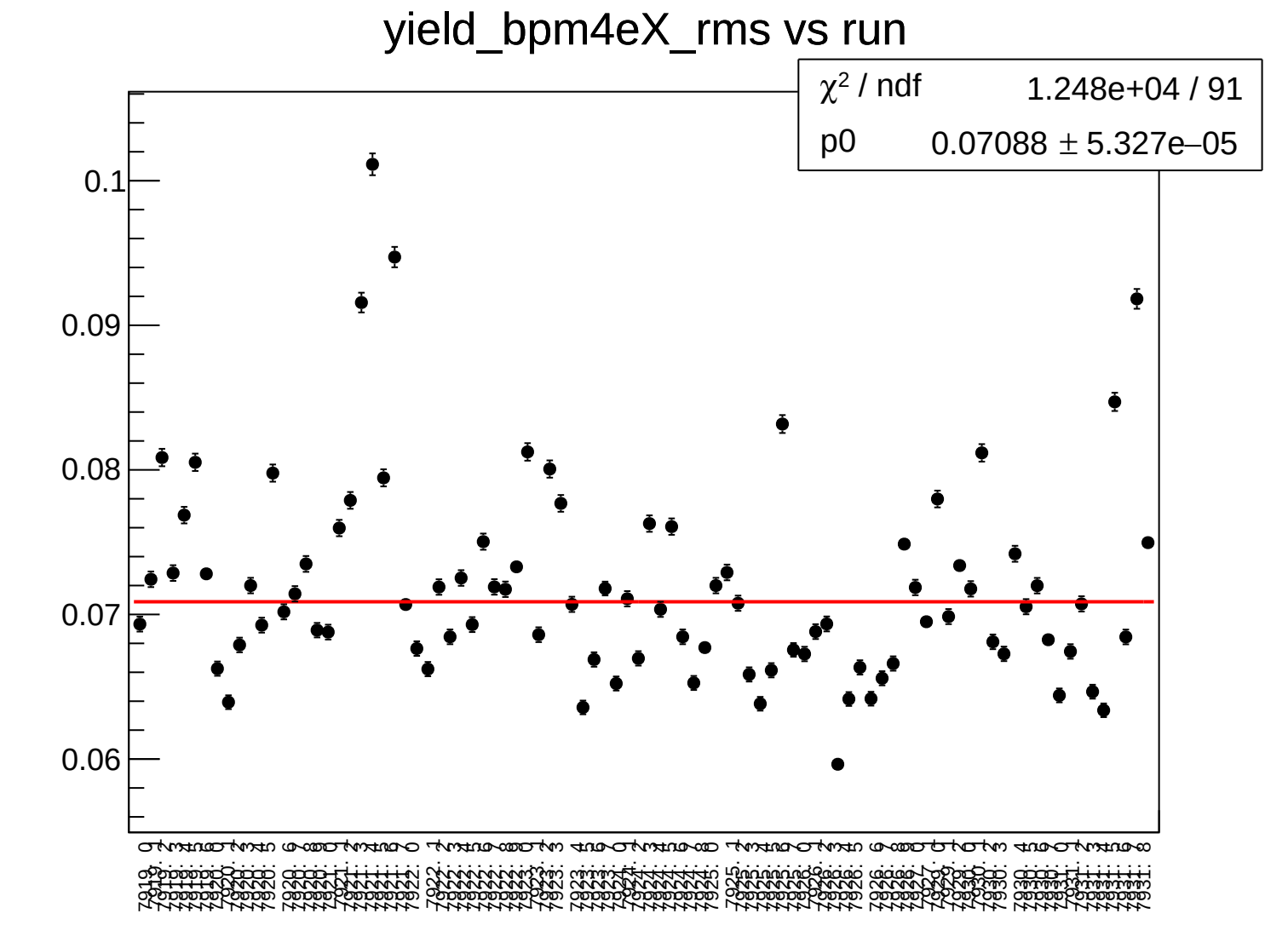

pull1D
Entries 92
Mean 0.3626
Std Dev 4.478
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

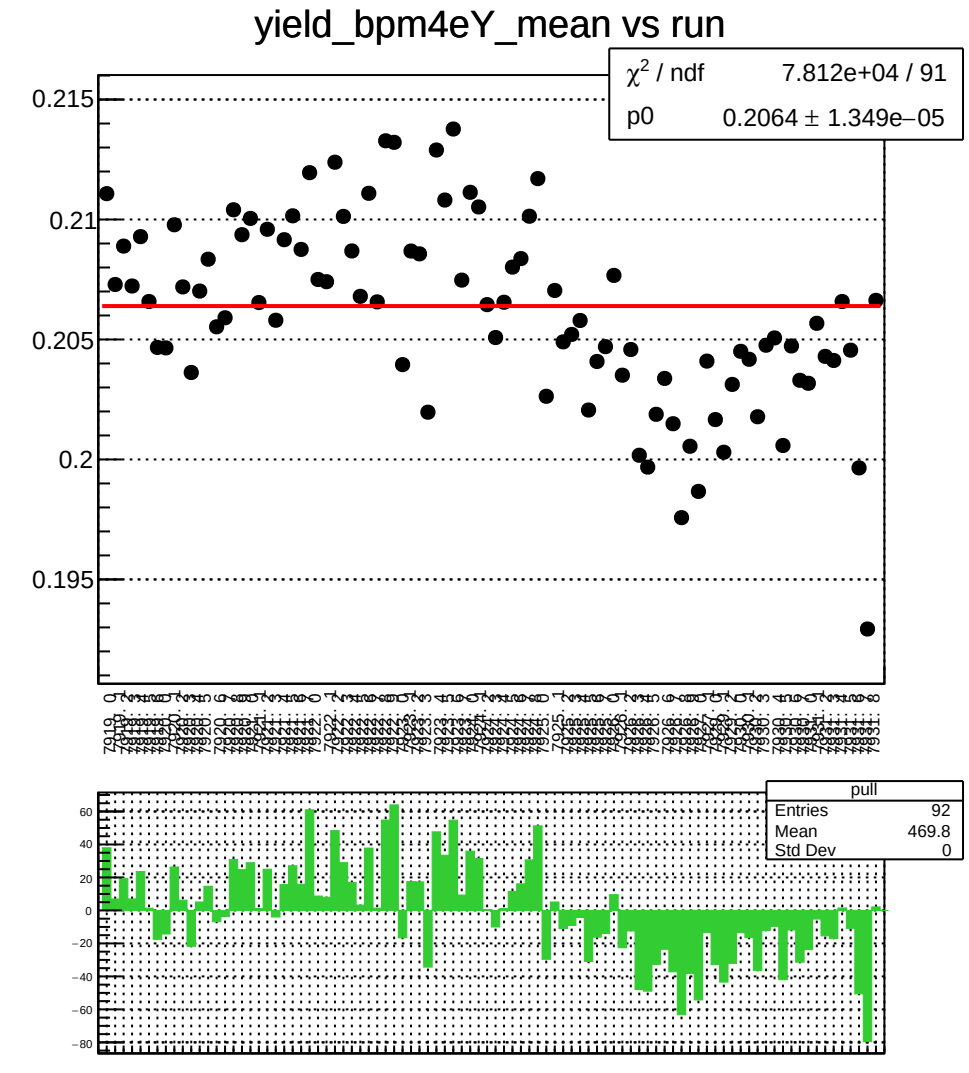

yield_bpm4aX_rms vs run
χ² / ndf 1.241e+04 / 91
p0 0.07341 ± 5.517e–05
0.11
0.1
0.09
0.08
0.07
0.06

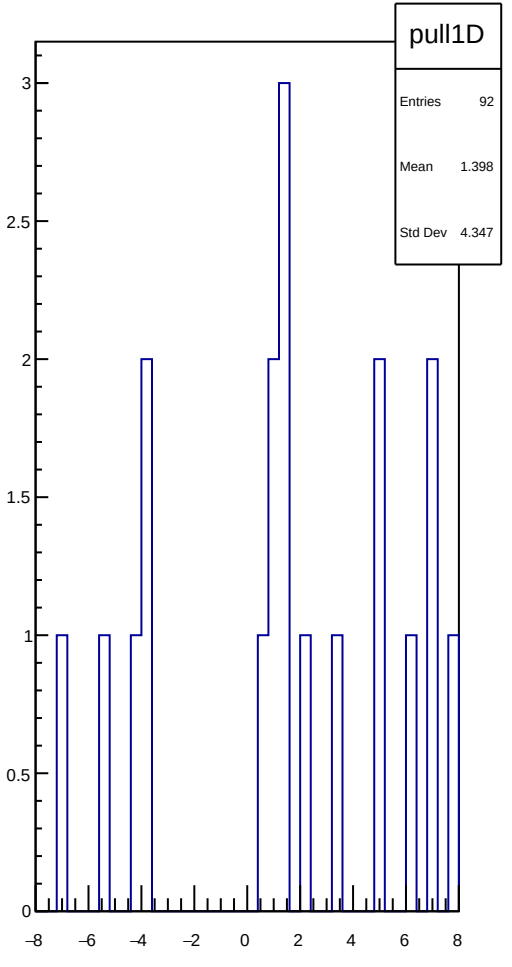

yield_bpm4aY_mean vs run
χ² / ndf 6.166e+04 / 91
p0 0.4713 ± 1.544e−05
0.48
0.475
0.47
0.465
0.46
pull
Entries 92
Mean 544.2
Std Dev 0
40
20
0
−20
−40
−60
pull1D
Entries 92
Mean 1.596
Std Dev 4.661
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

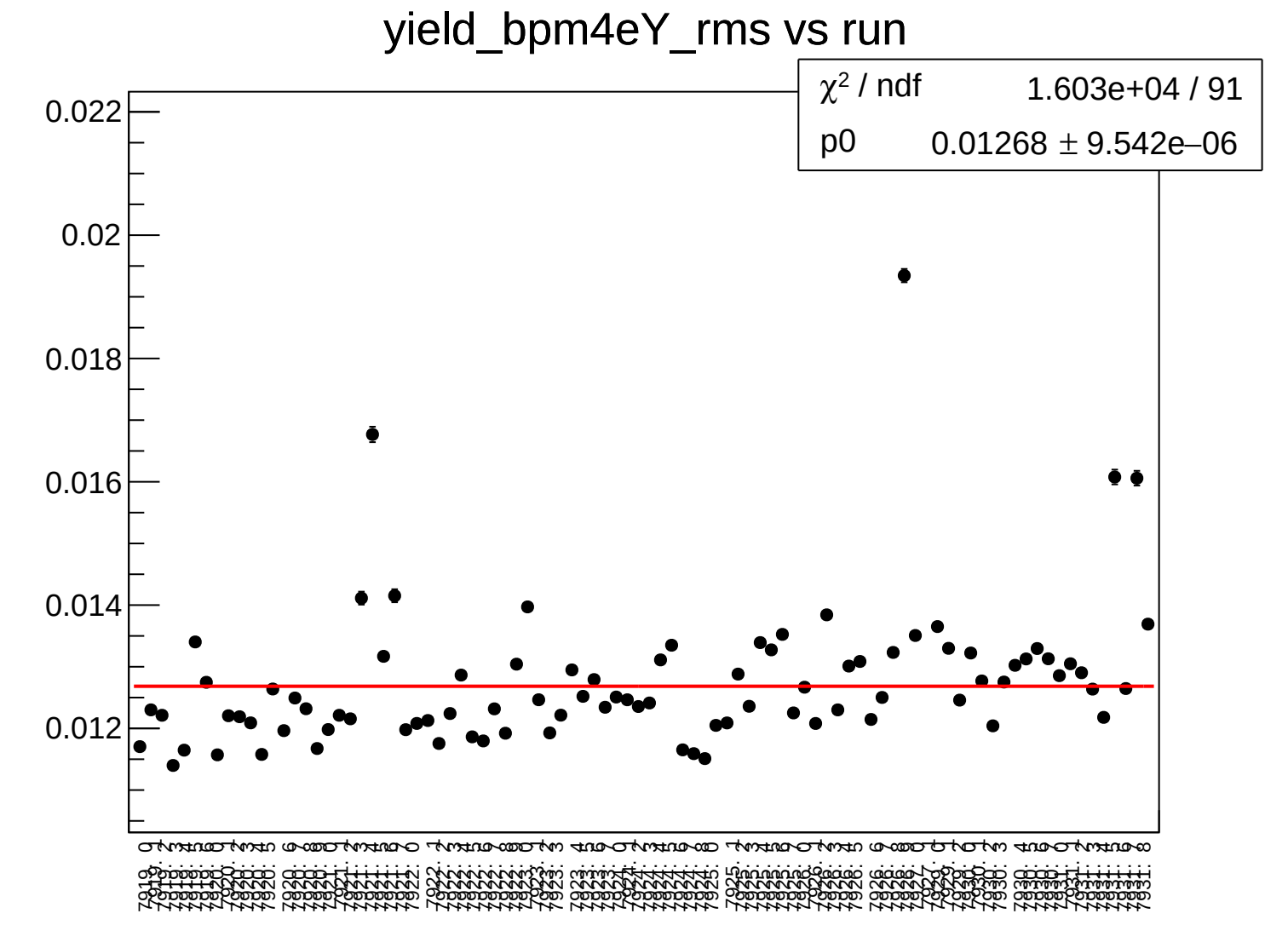

yield_bpm4aY_rms vs run
χ² / ndf 1.289e+04 / 91
p0 0.01452 ± 1.091e−05
0.022
0.02
0.018
0.016
0.014

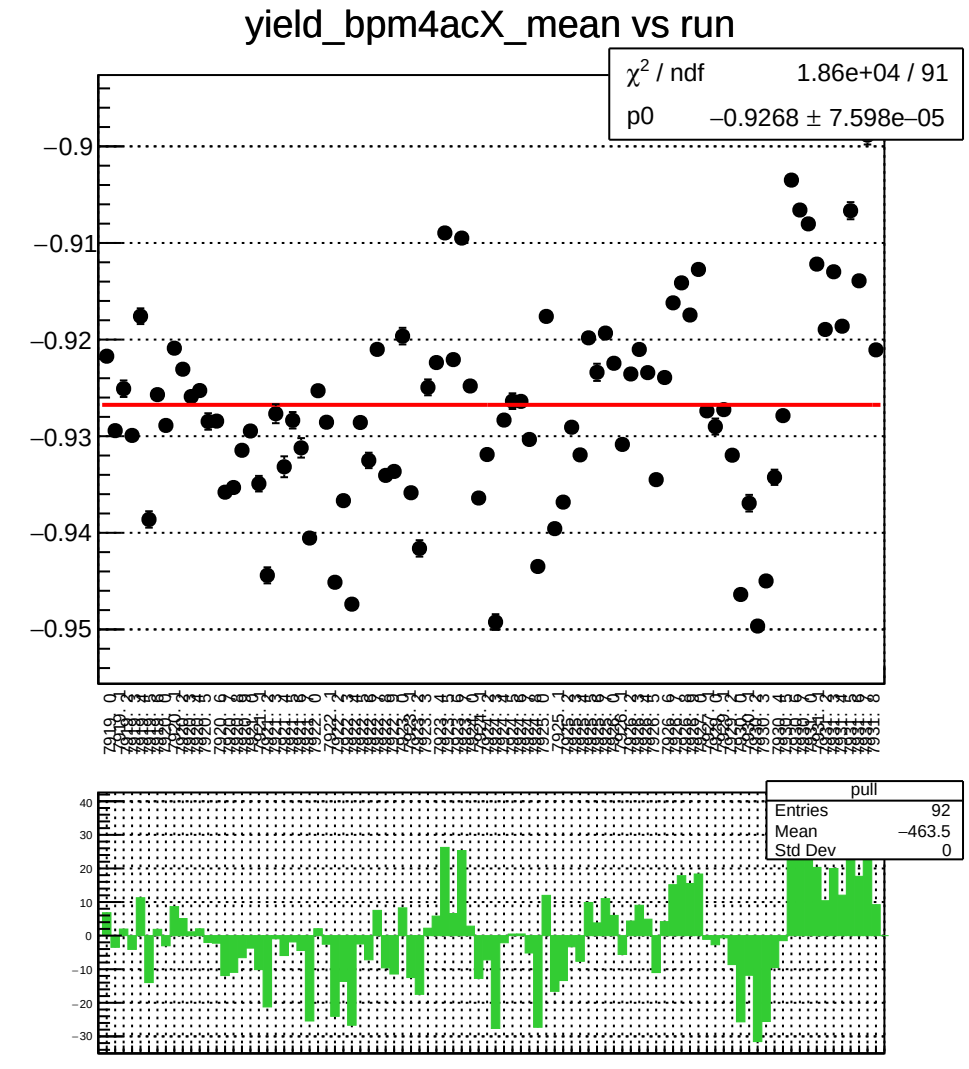

yield_bpm4eX_mean vs run
χ² / ndf 1.674e+04 / 91
p0 −0.1421 ± 7.533e−05
−0.11
−0.12
−0.13
−0.14
−0.15
−0.16
−0.17
pull
Entries 92
Mean −798.7
Std Dev 0
30
20
10
0
−10
−20
−30
pull1D
Entries 92
Mean −0.3061
Std Dev 4.38
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

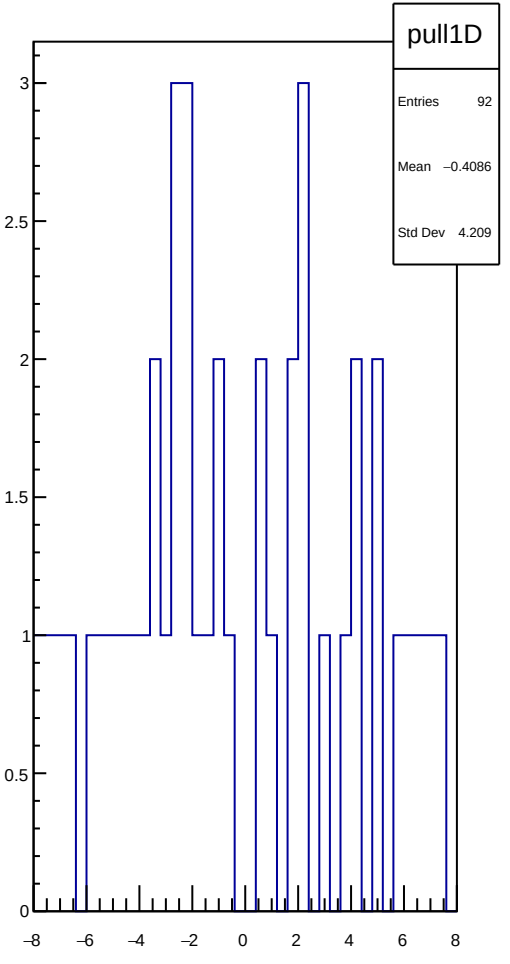

yield_bpm4eX_rms vs run
χ² / ndf 1.248e+04 / 91
p0 0.07088 ± 5.327e–05
0.1
0.09
0.08
0.07
0.06

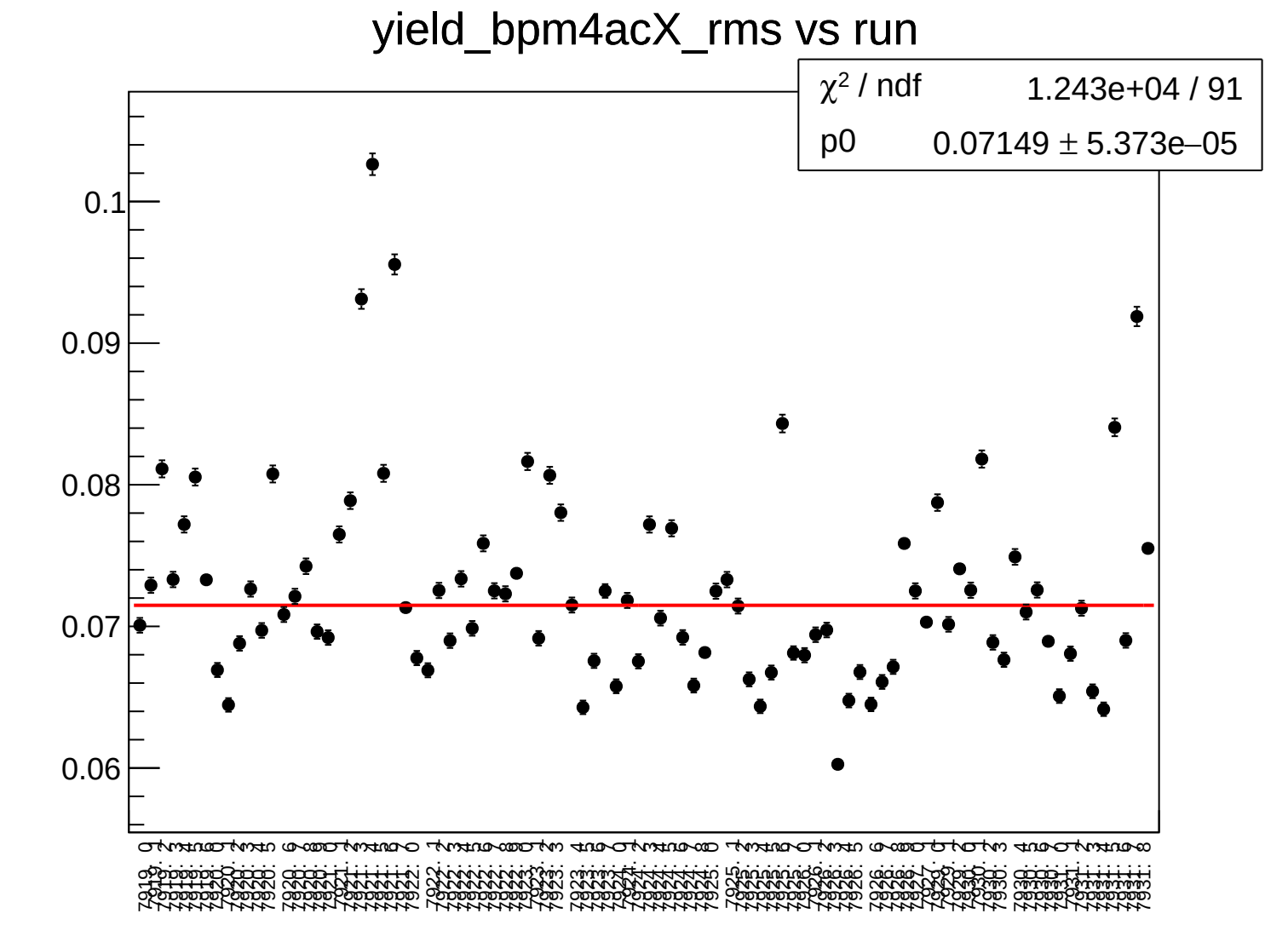

yield_bpm4eY_mean vs run
χ² / ndf 7.812e+04 / 91
p0 0.2064 ± 1.349e−05
0.215
0.21
0.205
0.2
0.195
pull
Entries 92
Mean 469.8
Std Dev 0
60
40
20
0
−20
−40
−60
−80

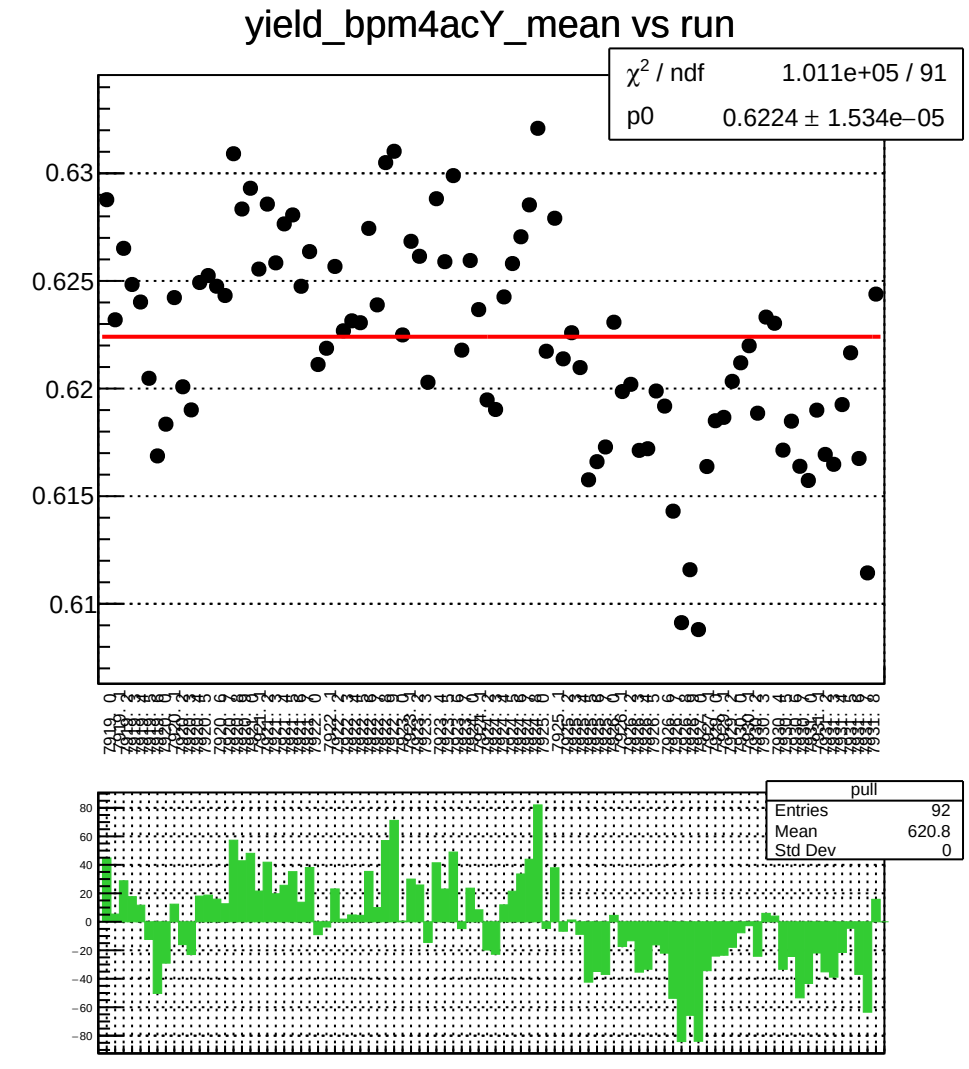

pull1D
Entries 92
Mean 1.398
Std Dev 4.347
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

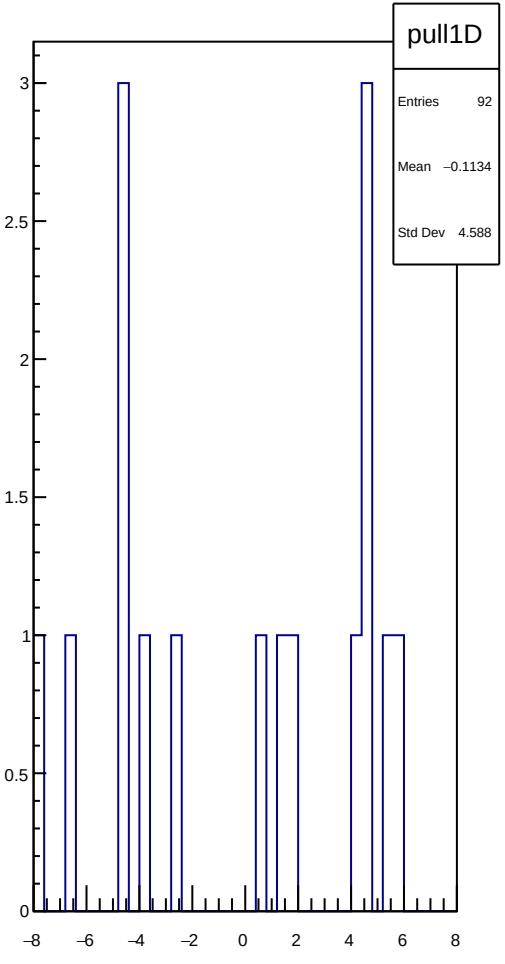

yield_bpm4eY_rms vs run
χ² / ndf 1.603e+04 / 91
p0 0.01268 ± 9.542e–06
0.022
0.02
0.018
0.016
0.014
0.012

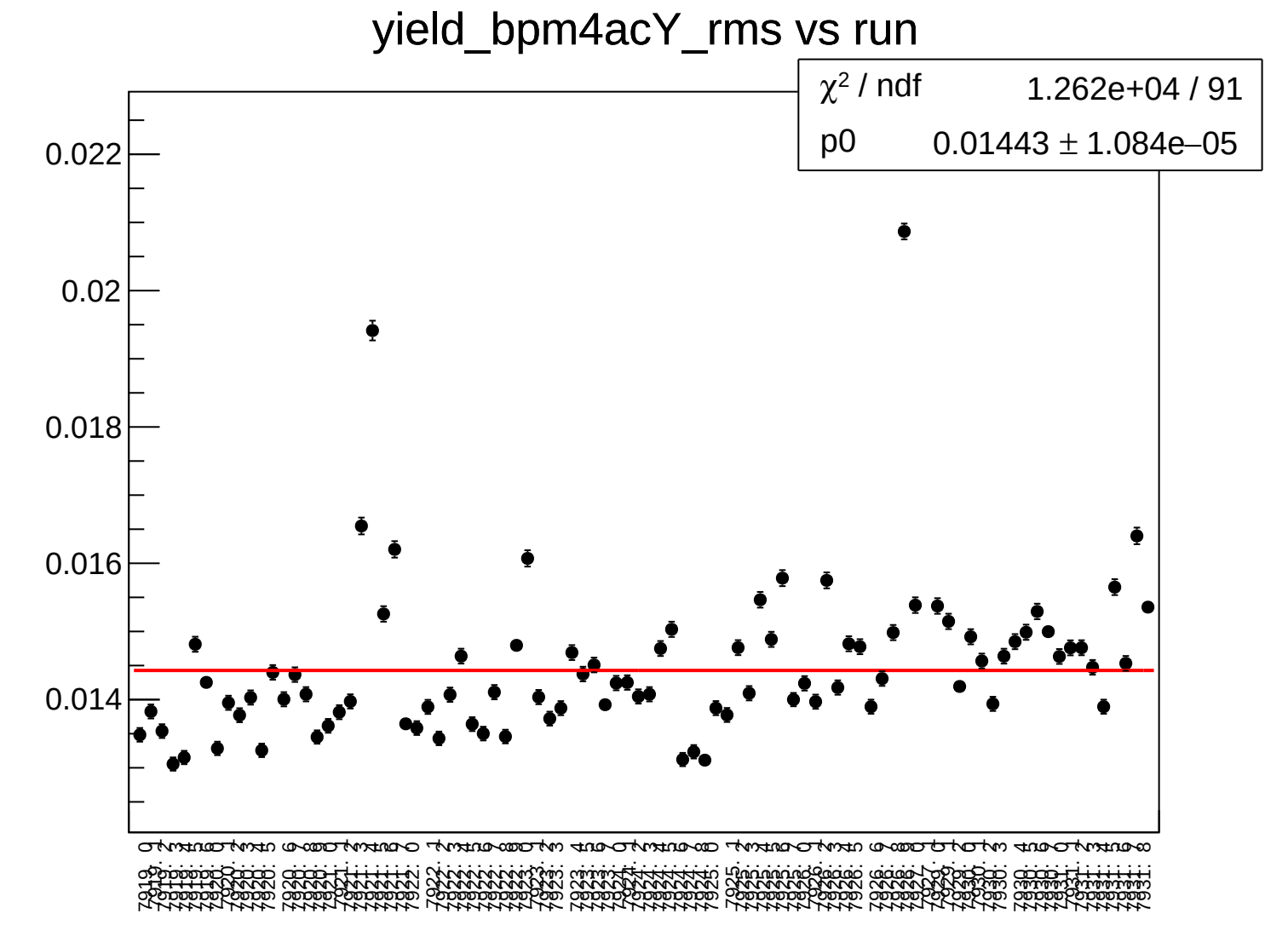

yield_bpm4acX_mean vs run
χ² / ndf 1.86e+04 / 91
p0 −0.9268 ± 7.598e−05
−0.9
−0.91
−0.92
−0.93
−0.94
−0.95
pull
Entries 92
Mean −463.5
Std Dev 0
40
30
20
10
0
−10
−20
−30

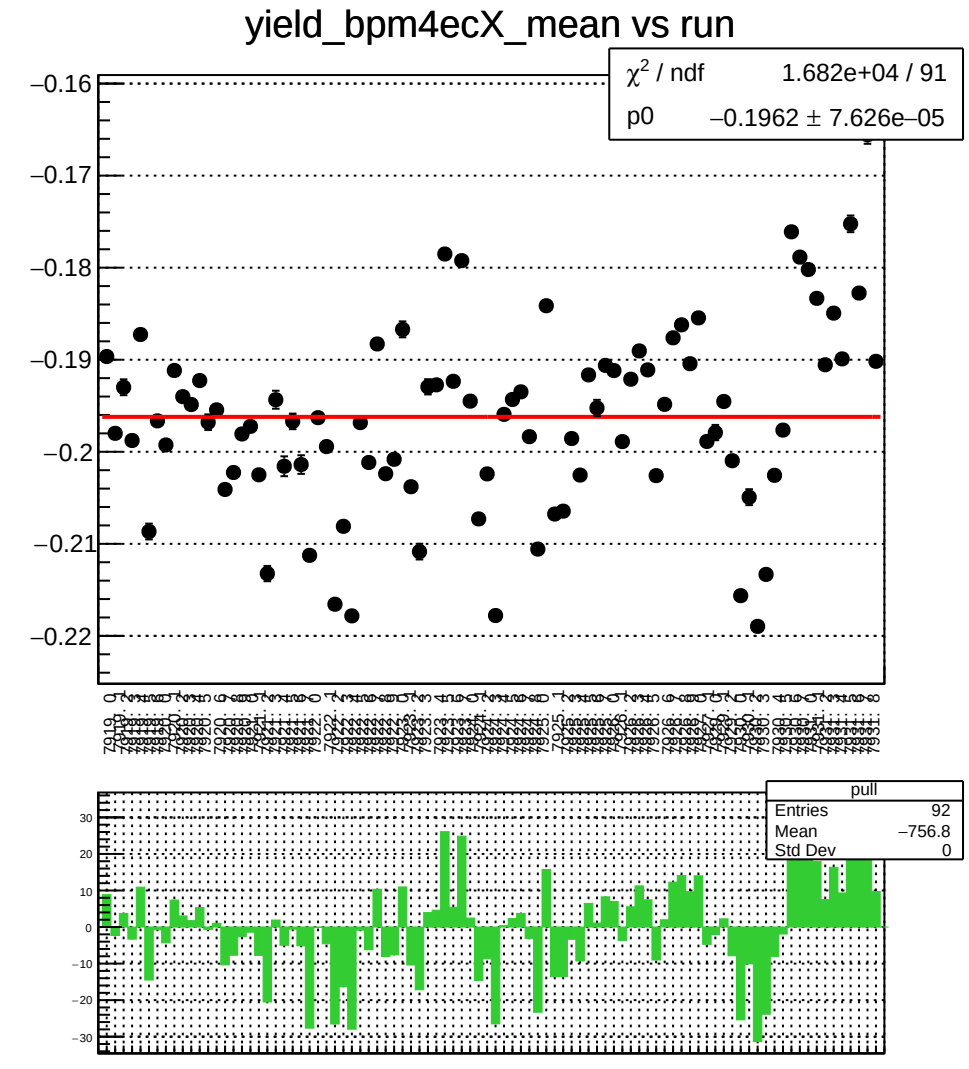

pull1D
Entries 92
Mean −0.4086
Std Dev 4.209
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

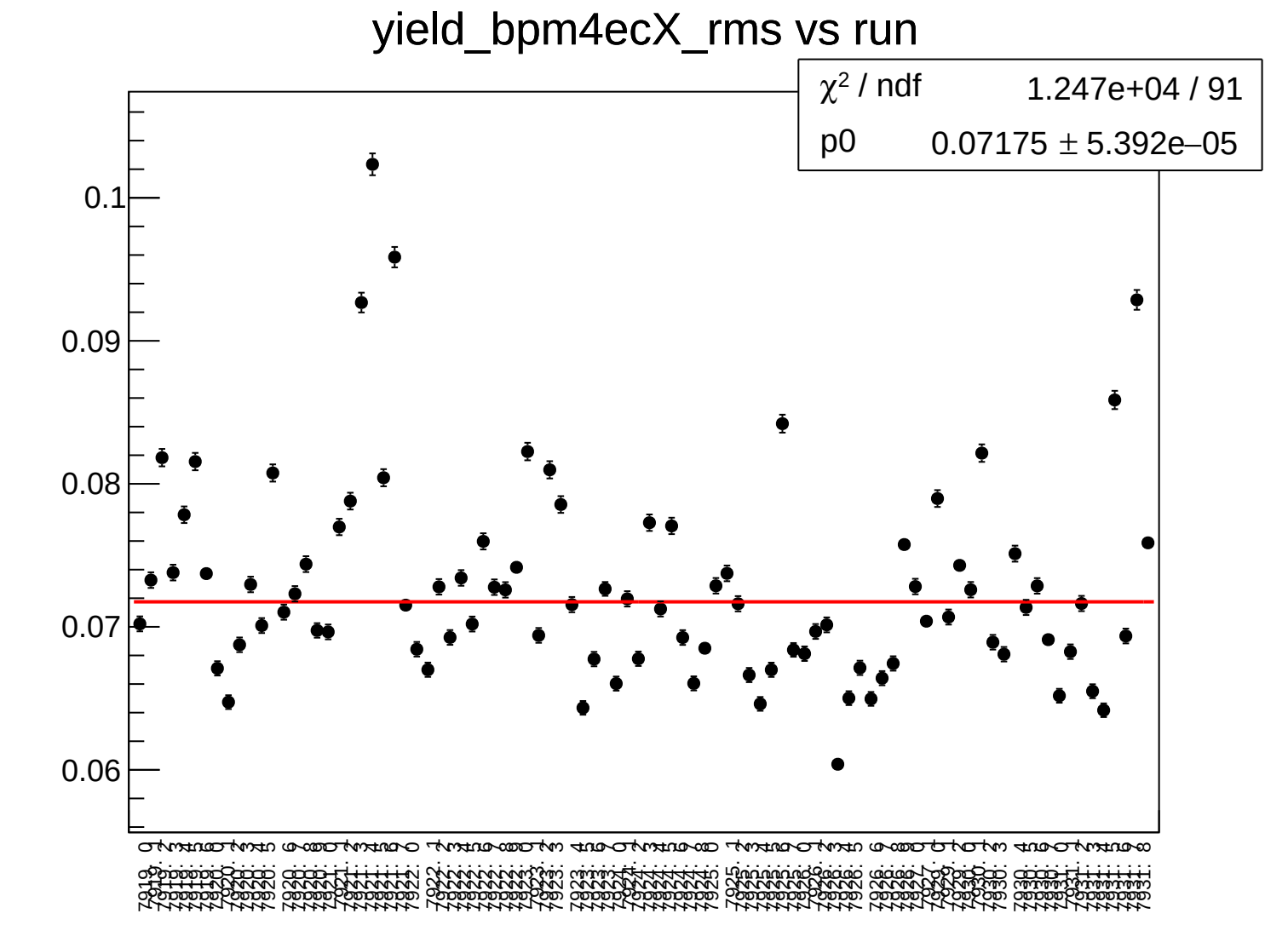

yield_bpm4acX_rms vs run
χ² / ndf 1.243e+04 / 91
p0 0.07149 ± 5.373e−05
0.1
0.09
0.08
0.07
0.06

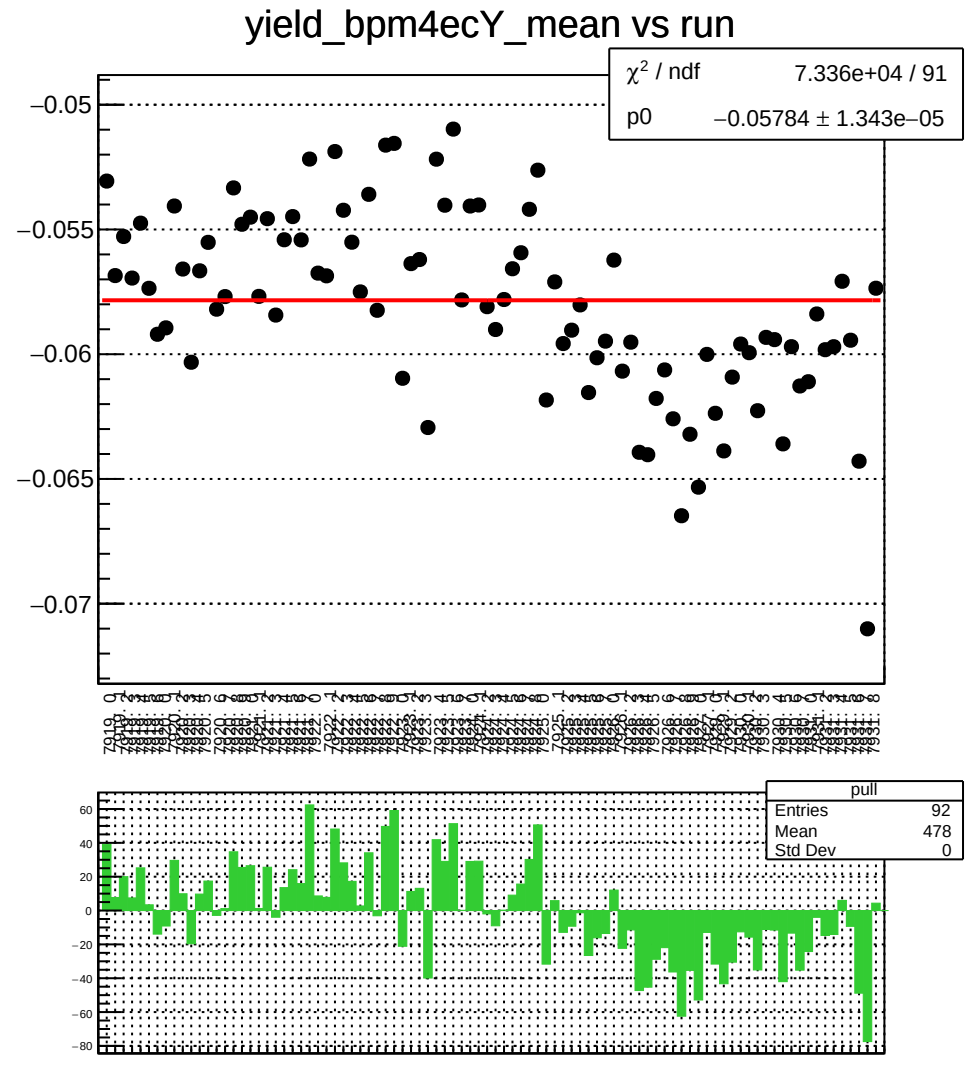

yield_bpm4acY_mean vs run
χ² / ndf 1.011e+05 / 91
p0 0.6224 ± 1.534e−05
0.63
0.625
0.62
0.615
0.61
pull
Entries 92
Mean 620.8
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80

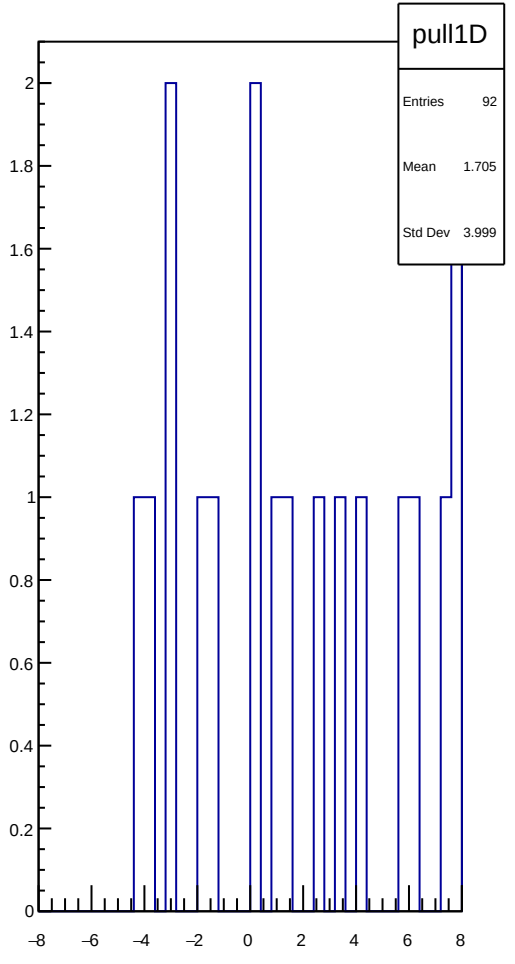

pull1D
Entries 92
Mean −0.1134
Std Dev 4.588
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

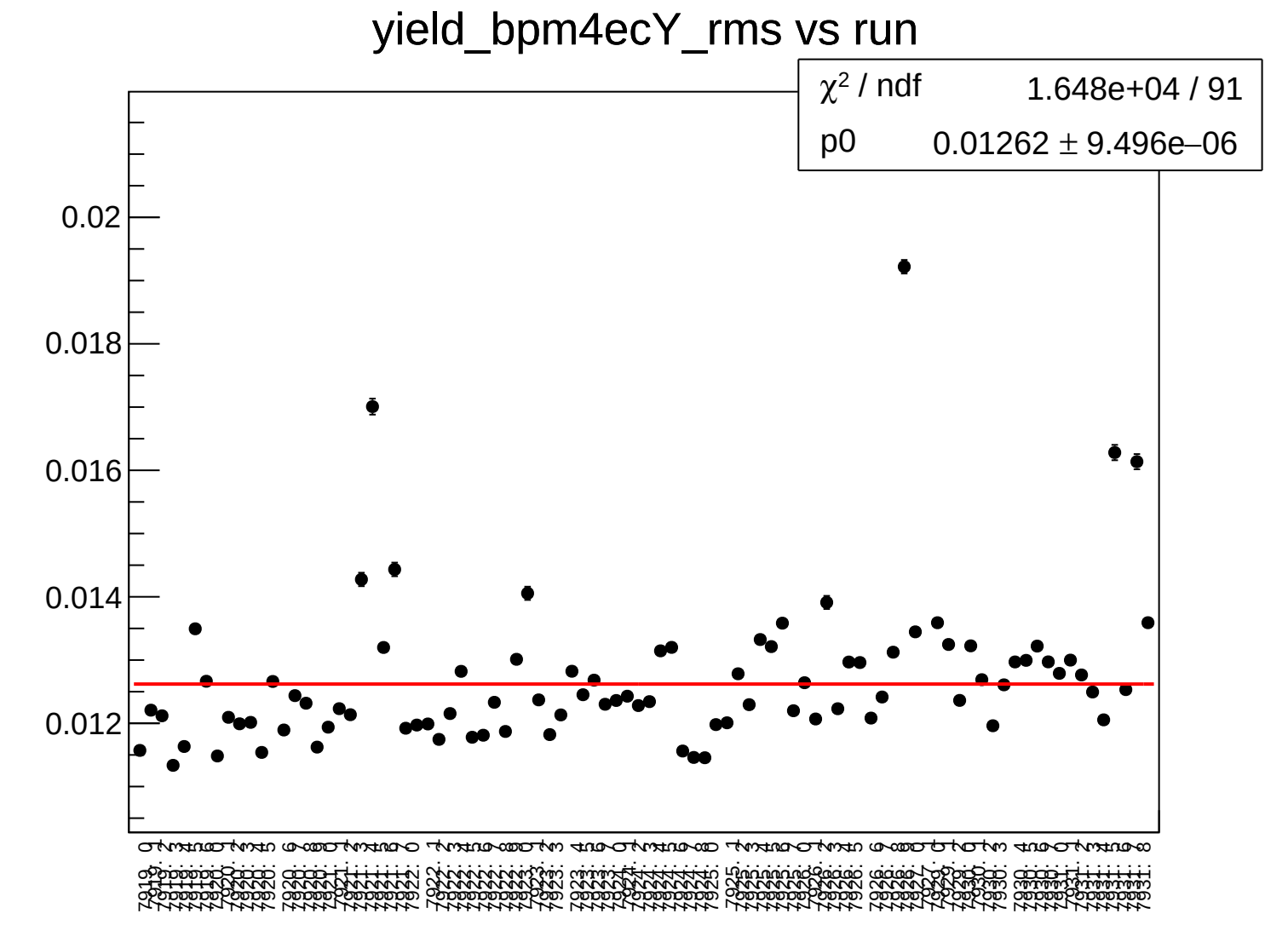

yield_bpm4acY_rms vs run
χ² / ndf 1.262e+04 / 91
p0 0.01443 ± 1.084e−05
0.022
0.02
0.018
0.016
0.014

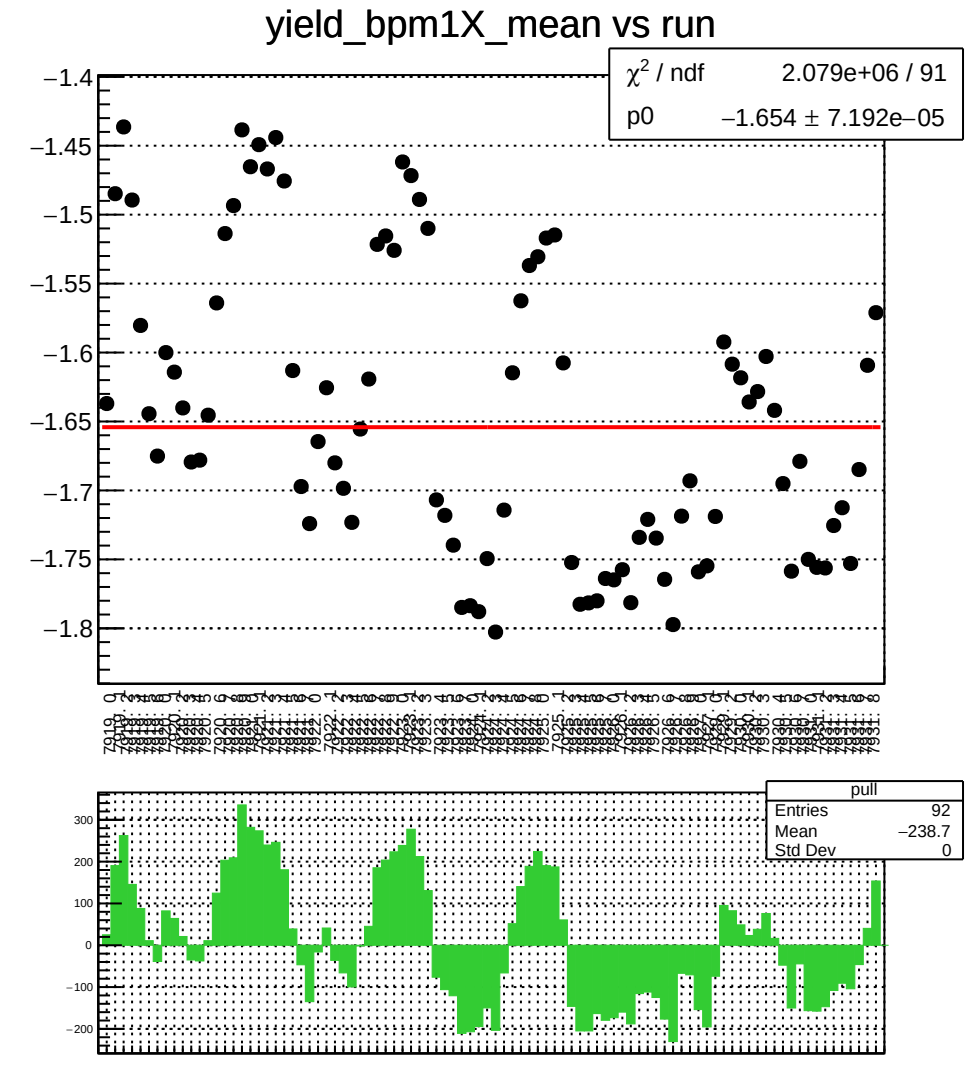

yield_bpm4ecX_mean vs run
χ² / ndf 1.682e+04 / 91
p0 −0.1962 ± 7.626e−05
pull
Entries 92
Mean −756.8
Std Dev 0
pull1D
Entries 92
Mean −0.02858
Std Dev 4.442

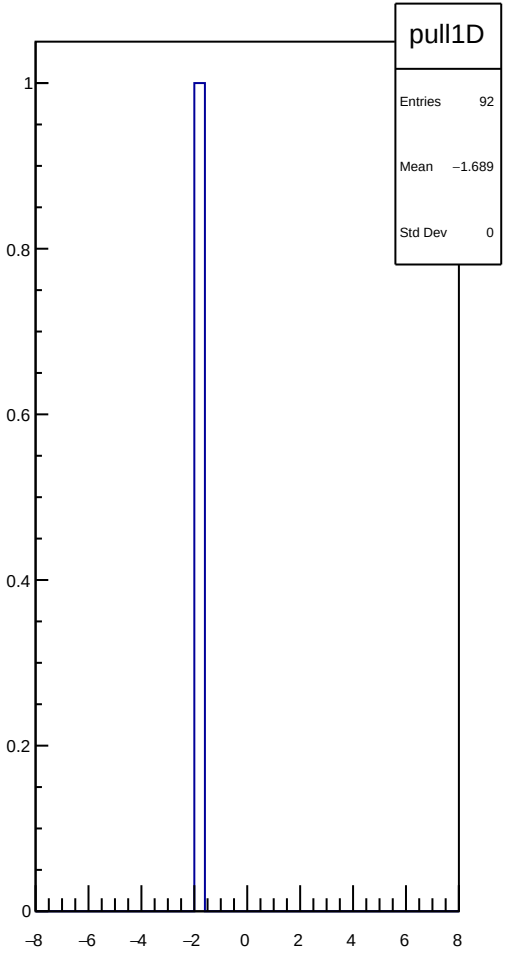

yield_bpm4ecX_rms vs run
χ² / ndf 1.247e+04 / 91
p0 0.07175 ± 5.392e–05
0.1
0.09
0.08
0.07
0.06

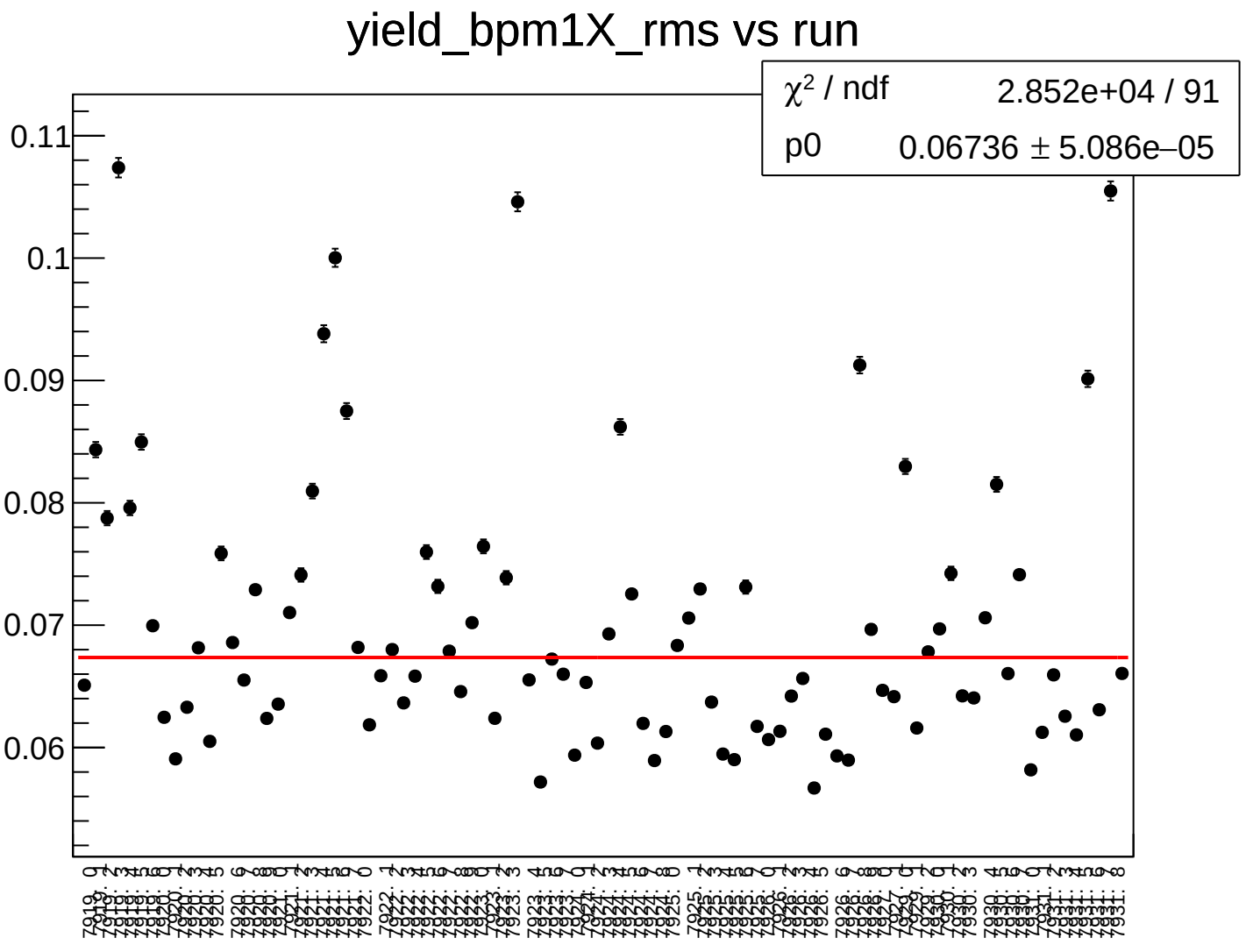

yield_bpm4ecY_mean vs run
χ² / ndf 7.336e+04 / 91
p0 −0.05784 ± 1.343e−05
−0.05
−0.055
−0.06
−0.065
−0.07
pull
Entries 92
Mean 478
Std Dev 0
60
40
20
0
−20
−40
−60
−80

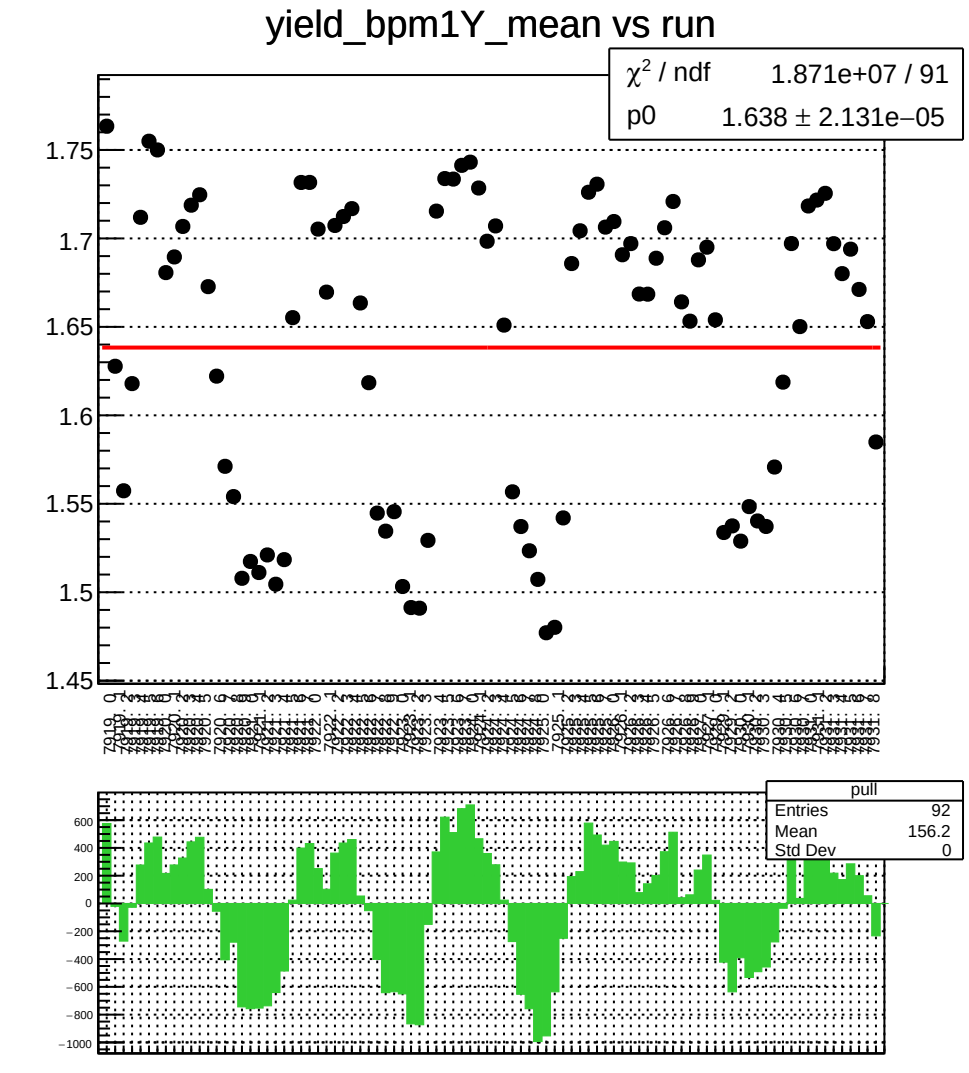

pull1D
Entries 92
Mean 1.705
Std Dev 3.999
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

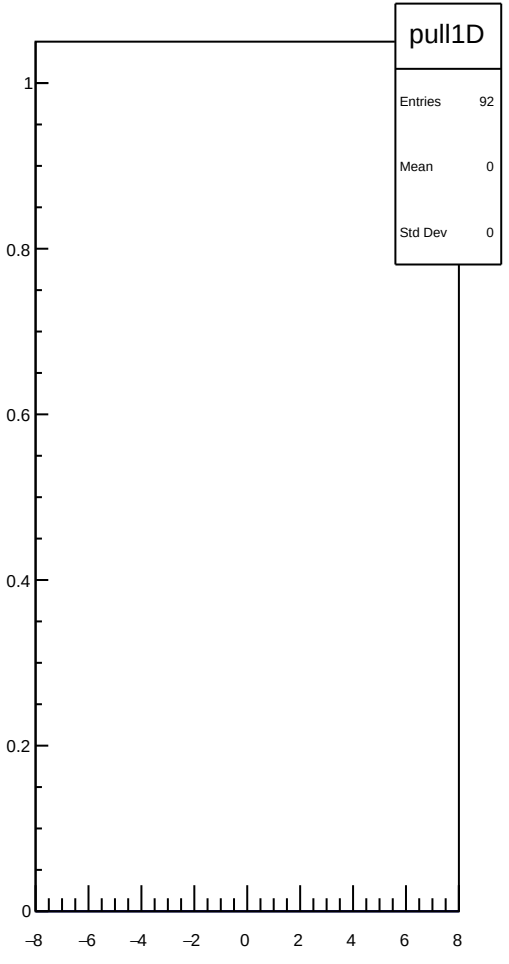

yield_bpm4ecY_rms vs run
χ² / ndf 1.648e+04 / 91
p0 0.01262 ± 9.496e–06
0.02
0.018
0.016
0.014
0.012

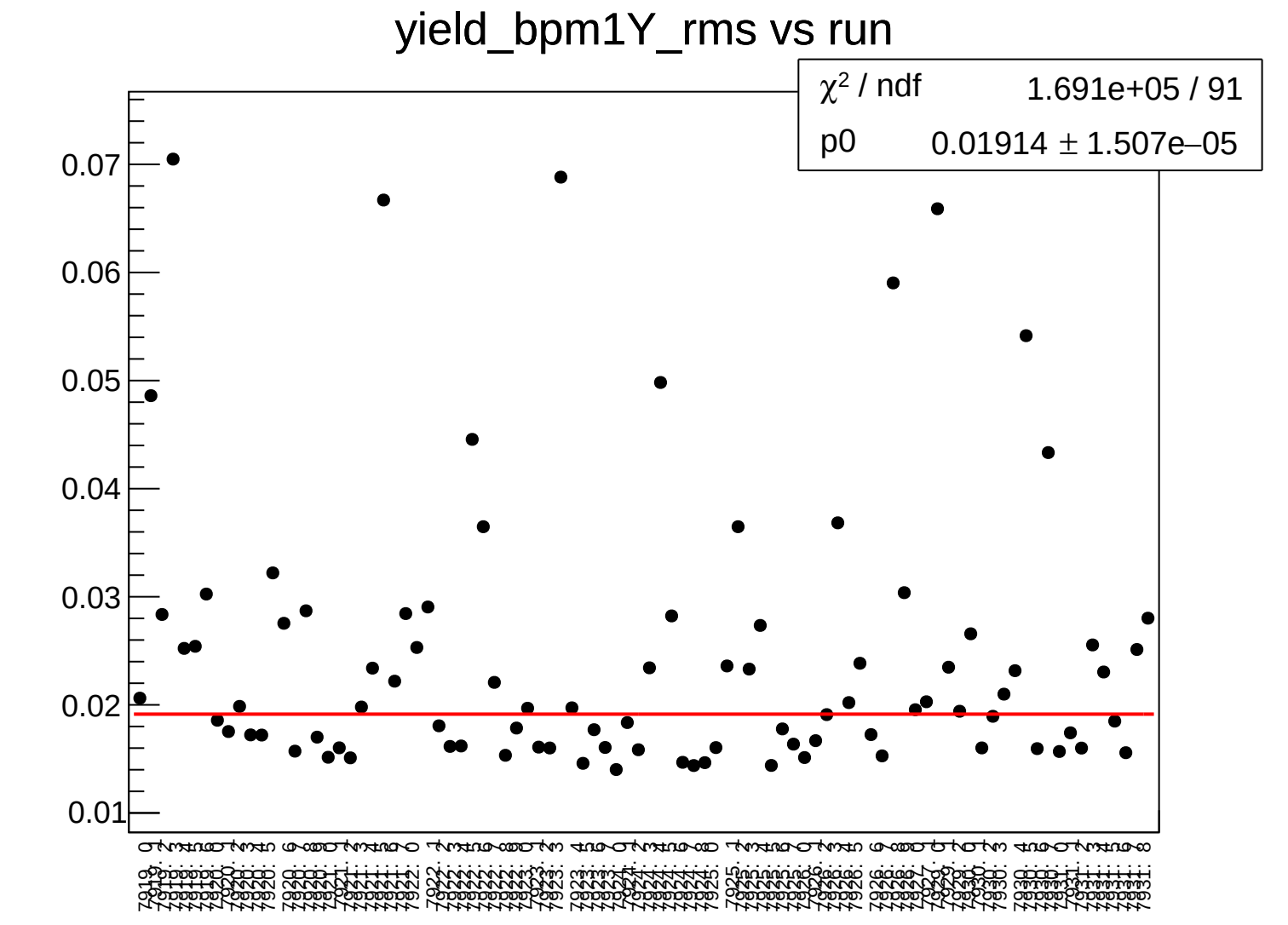

yield_bpm1X_mean vs run
χ² / ndf 2.079e+06 / 91
p0 −1.654 ± 7.192e−05
−1.4
−1.45
−1.5
−1.55
−1.6
−1.65
−1.7
−1.75
−1.8
pull
Entries 92
Mean −238.7
Std Dev 0
300
200
100
0
−100
−200

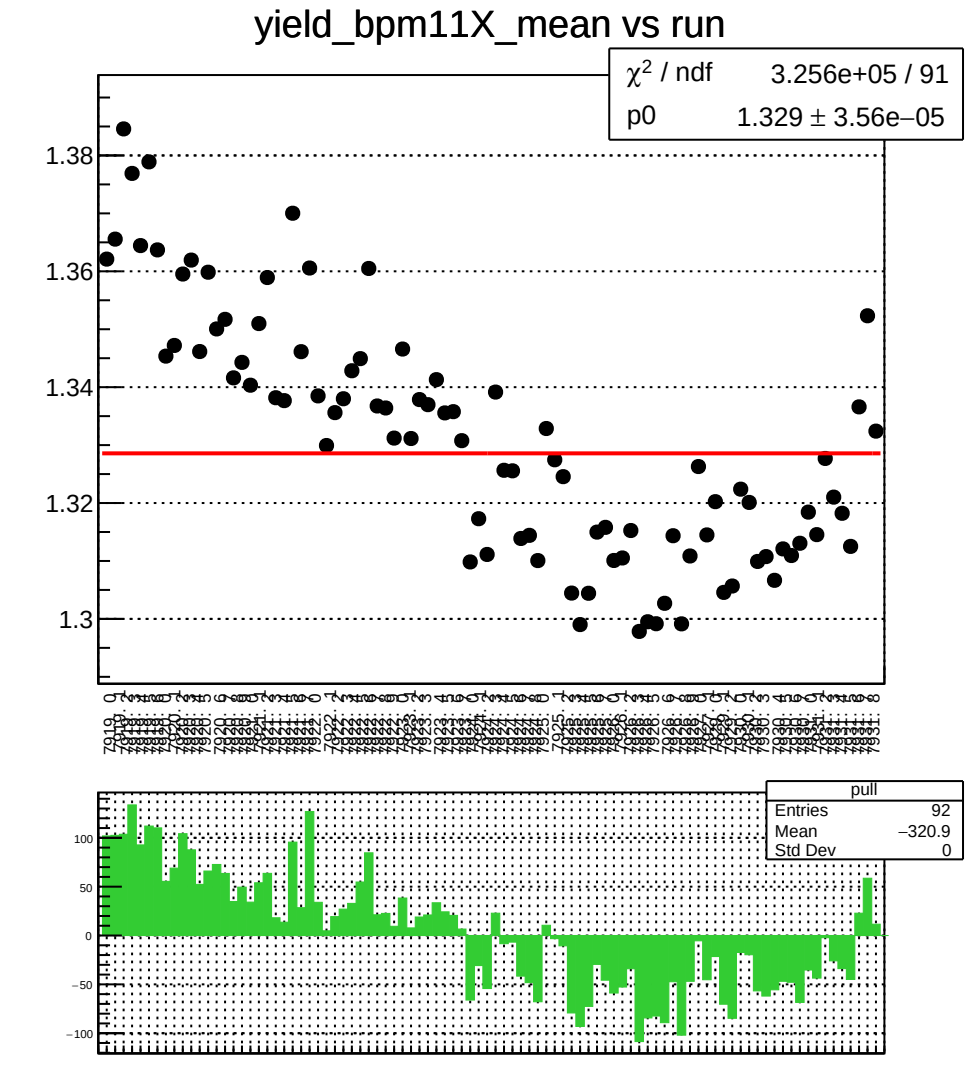

pull1D
Entries 92
Mean −1.689
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

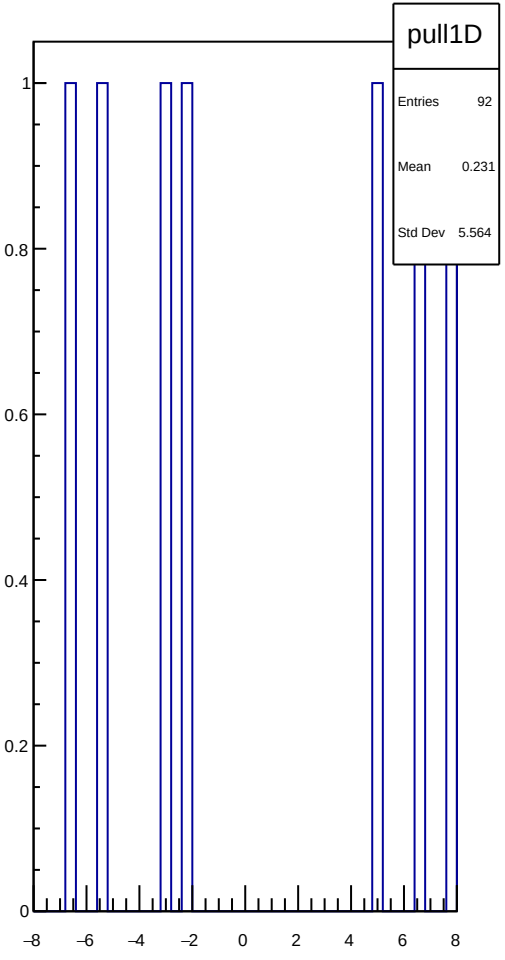

yield_bpm1X_rms vs run
χ² / ndf 2.852e+04 / 91
p0 0.06736 ± 5.086e–05
0.11
0.1
0.09
0.08
0.07
0.06

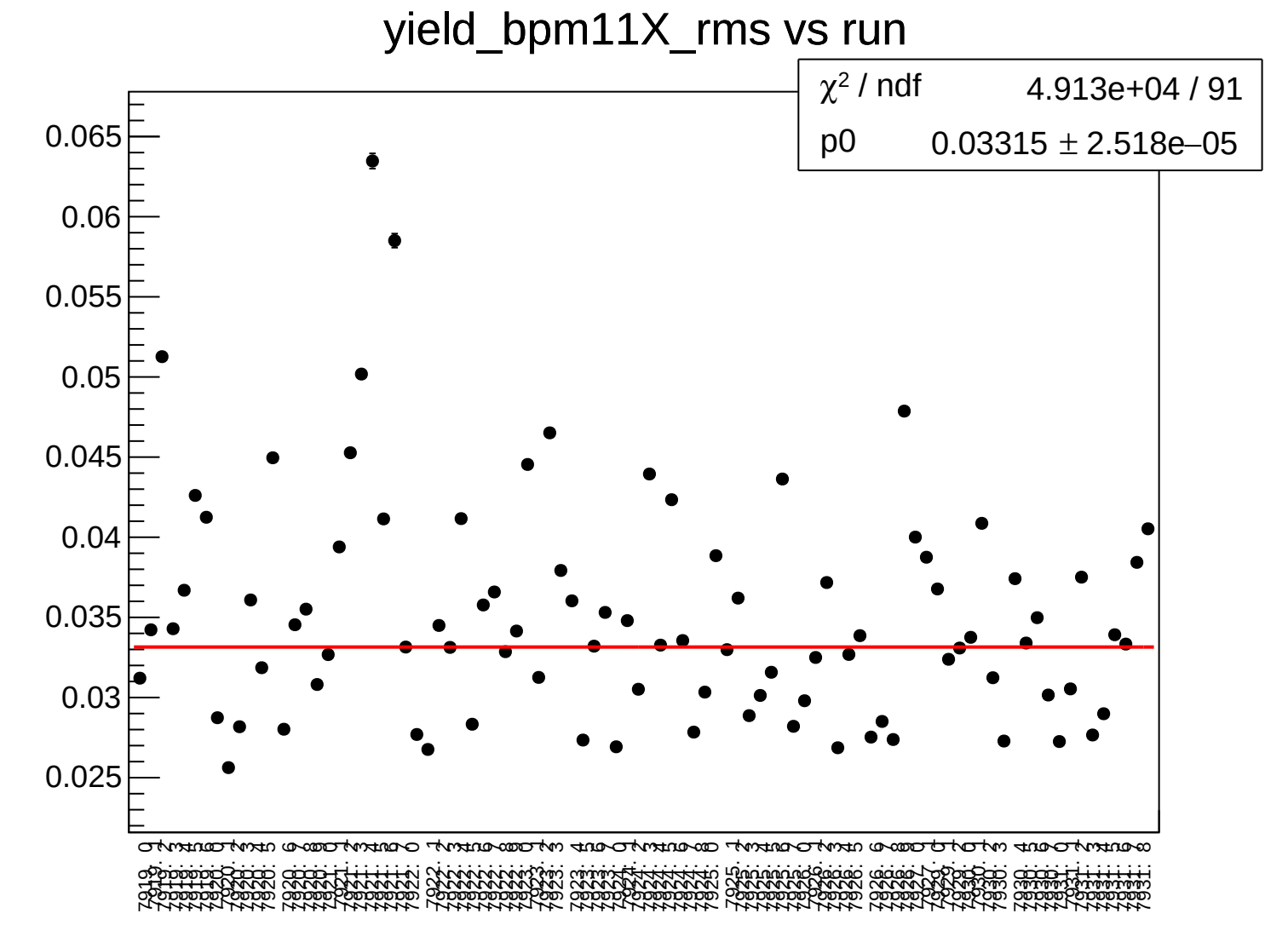

yield_bpm1Y_mean vs run
χ² / ndf 1.871e+07 / 91
p0 1.638 ± 2.131e−05
1.75
1.7
1.65
1.6
1.55
1.5
1.45
pull
Entries 92
Mean 156.2
Std Dev 0
600
400
200
0
−200
−400
−600
−800
−1000

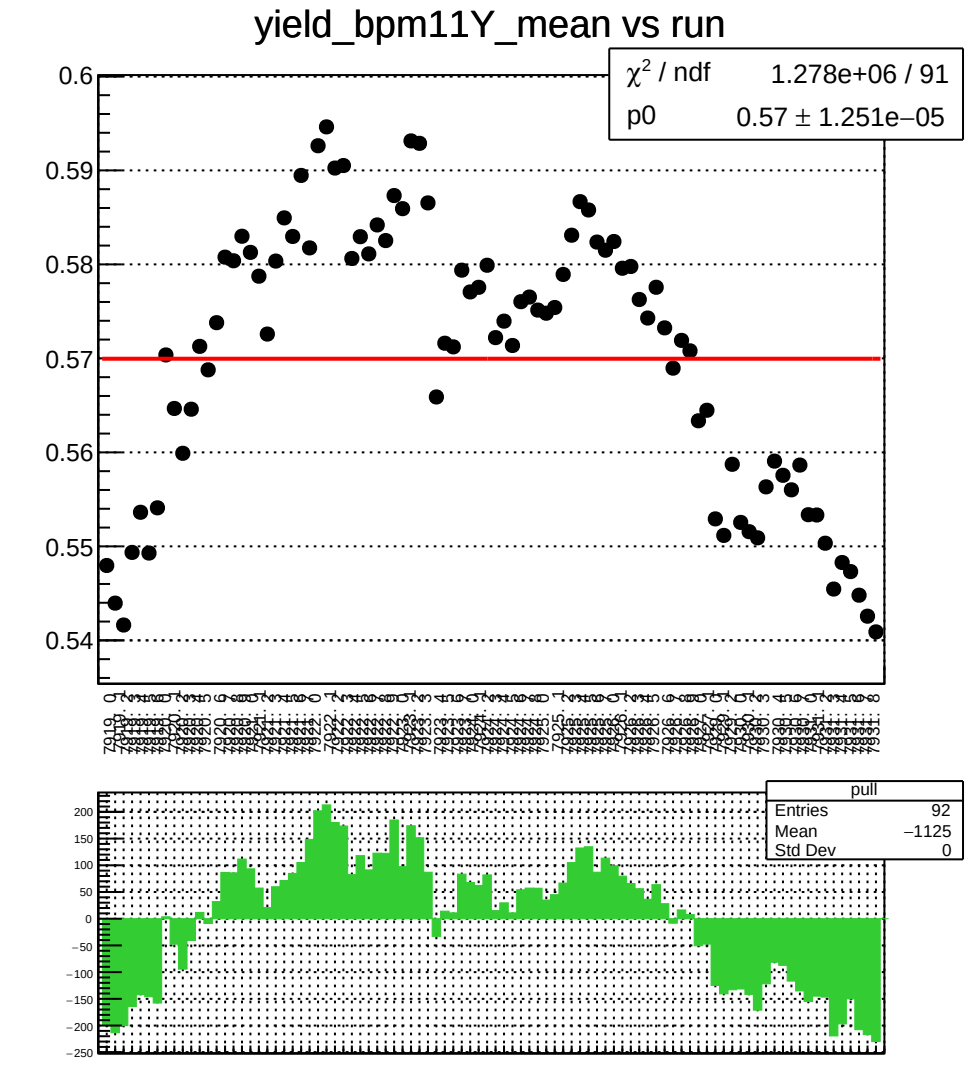

pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

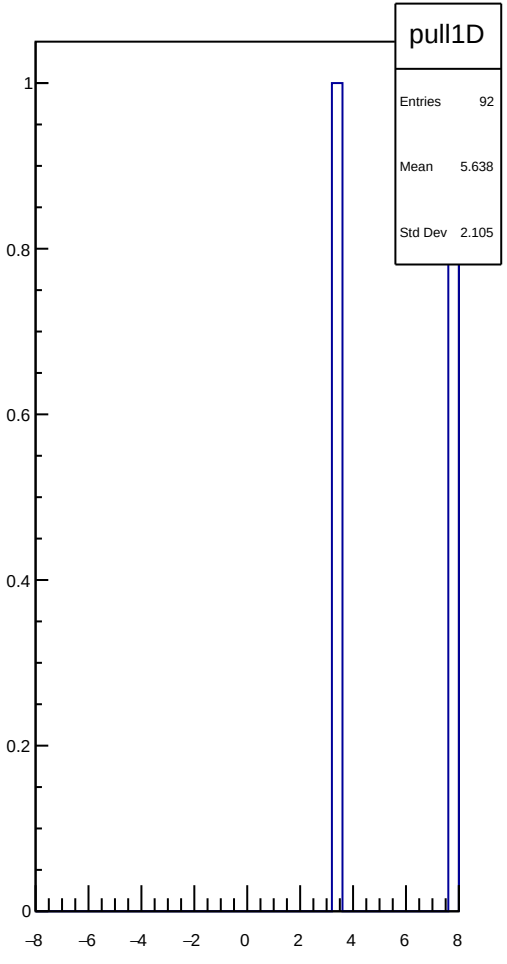

yield_bpm1Y_rms vs run
χ² / ndf 1.691e+05 / 91
p0 0.01914 ± 1.507e–05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

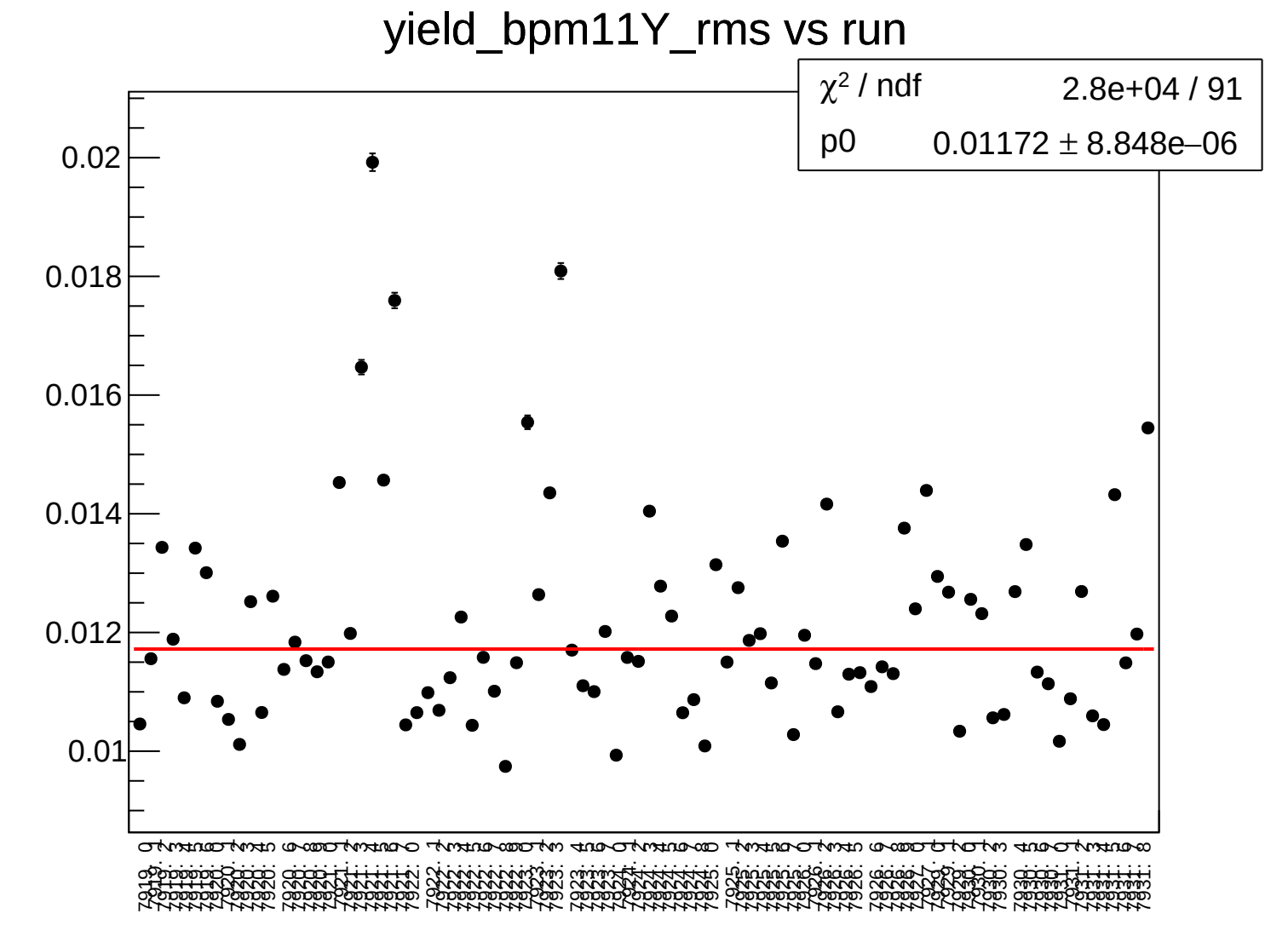

yield_bpm11X_mean vs run
χ² / ndf 3.256e+05 / 91
p0 1.329 ± 3.56e−05
1.38
1.36
1.34
1.32
1.3
pull
Entries 92
Mean −320.9
Std Dev 0
100
50
0
−50
−100

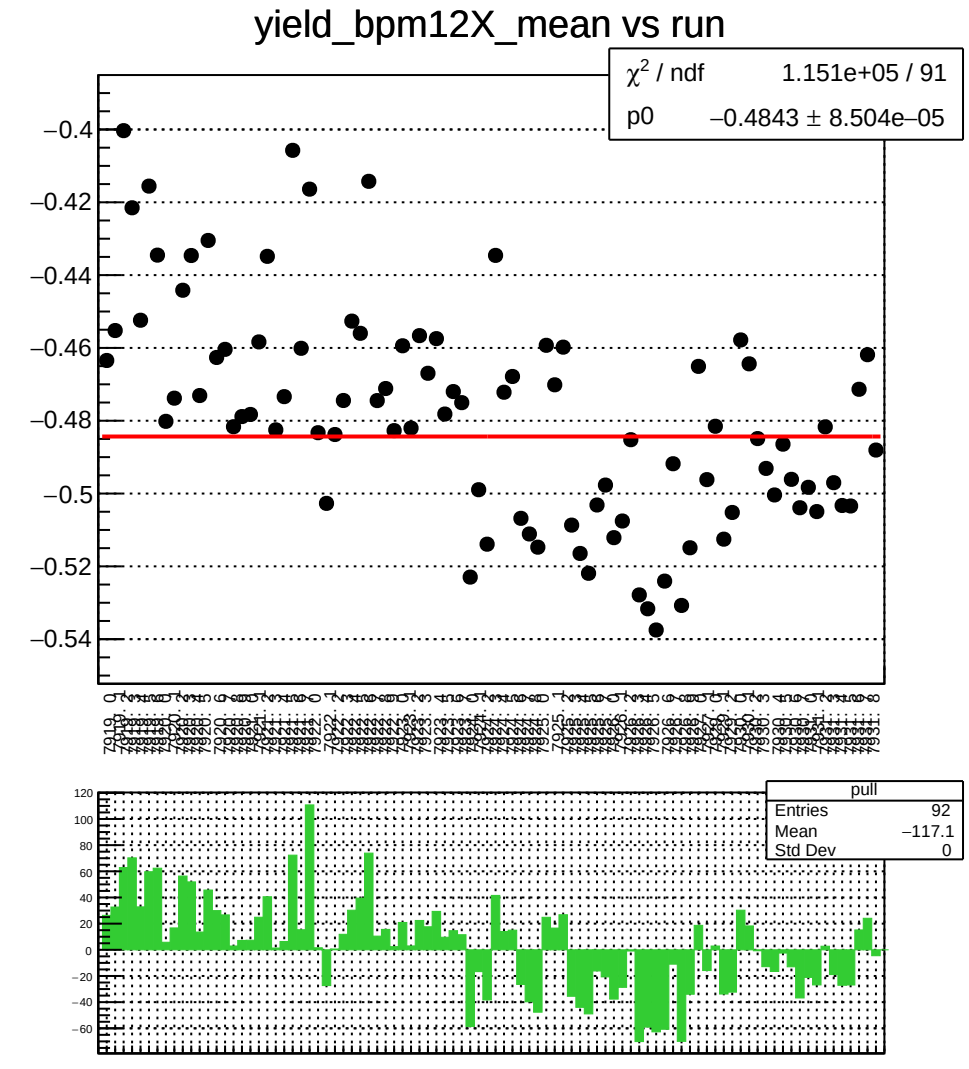

pull1D
Entries 92
Mean 0.231
Std Dev 5.564
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

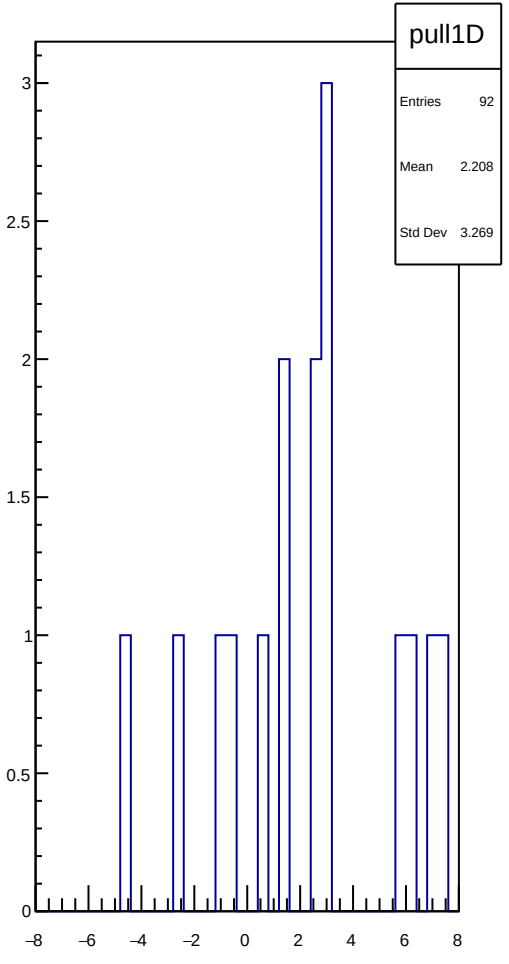

yield_bpm11X_rms vs run
χ² / ndf 4.913e+04 / 91
p0 0.03315 ± 2.518e–05
0.065
0.06
0.055
0.05
0.045
0.04
0.035
0.03
0.025

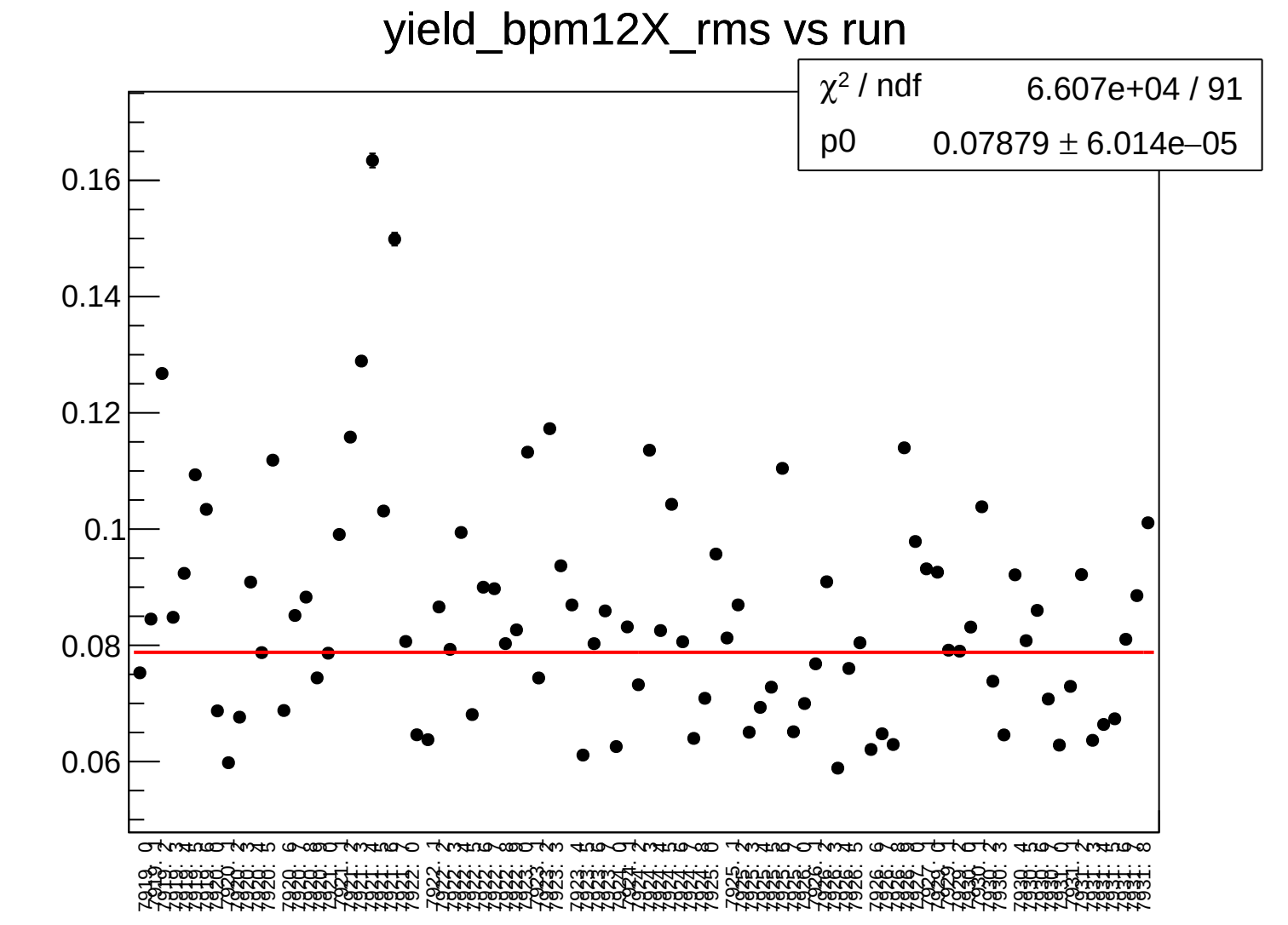

yield_bpm11Y_mean vs run
χ² / ndf 1.278e+06 / 91
p0 0.57 ± 1.251e−05
pull
Entries 92
Mean −1125
Std Dev 0

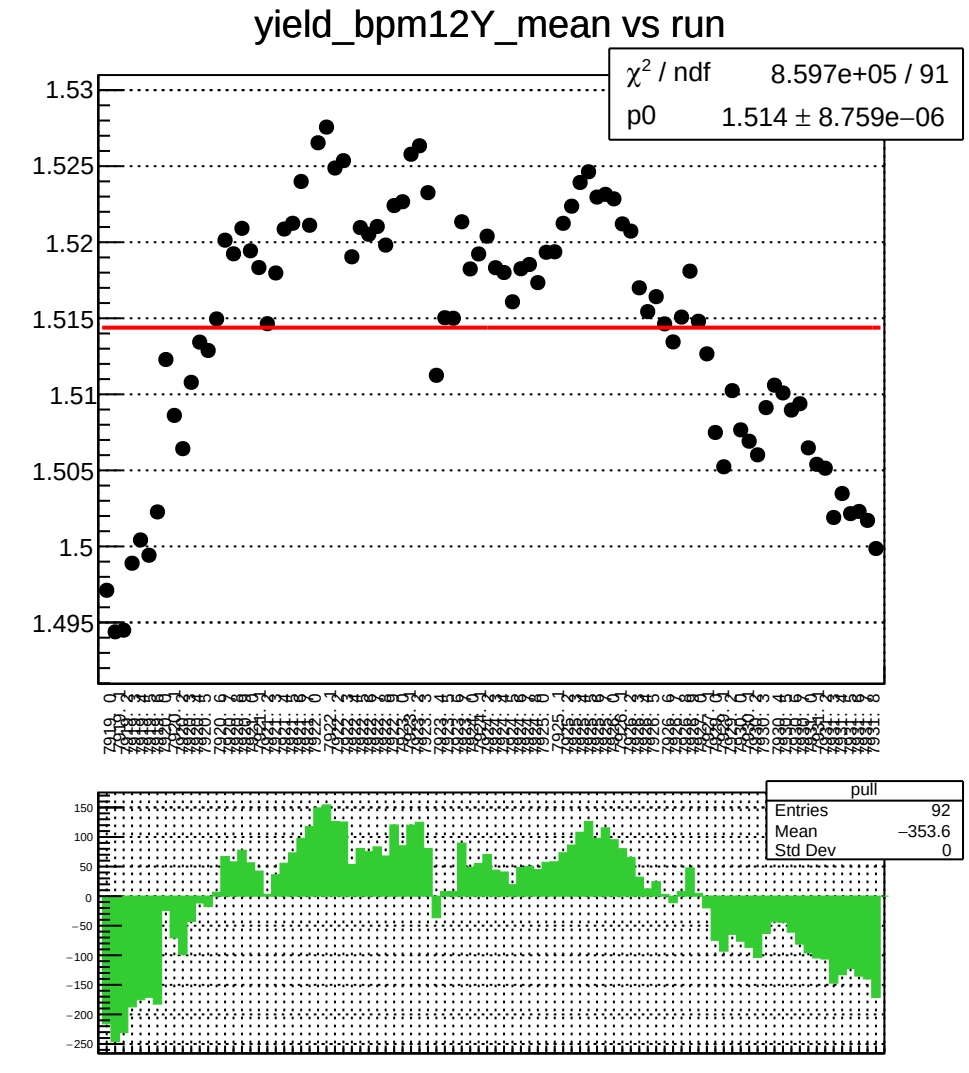

pull1D
Entries 92
Mean 5.638
Std Dev 2.105

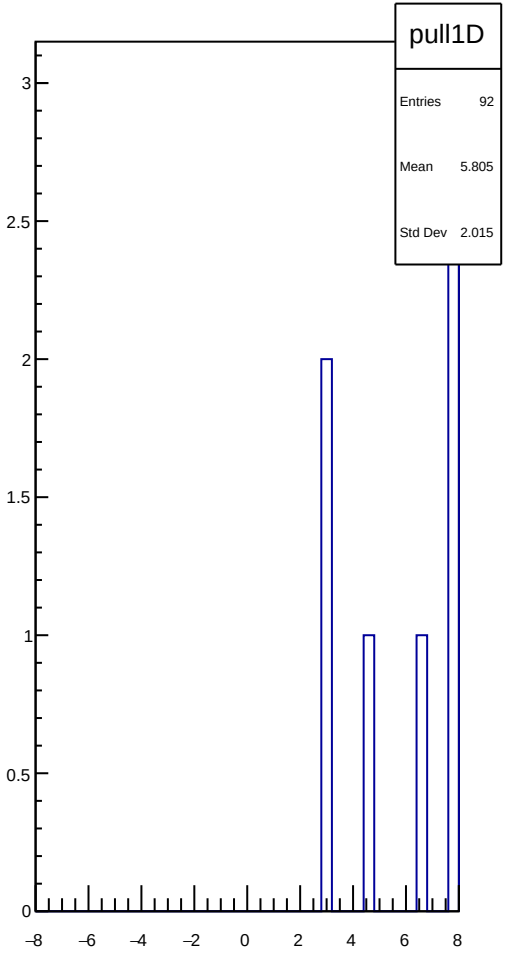

yield_bpm11Y_rms vs run
χ² / ndf 2.8e+04 / 91
p0 0.01172 ± 8.848e−06
0.02
0.018
0.016
0.014
0.012
0.01

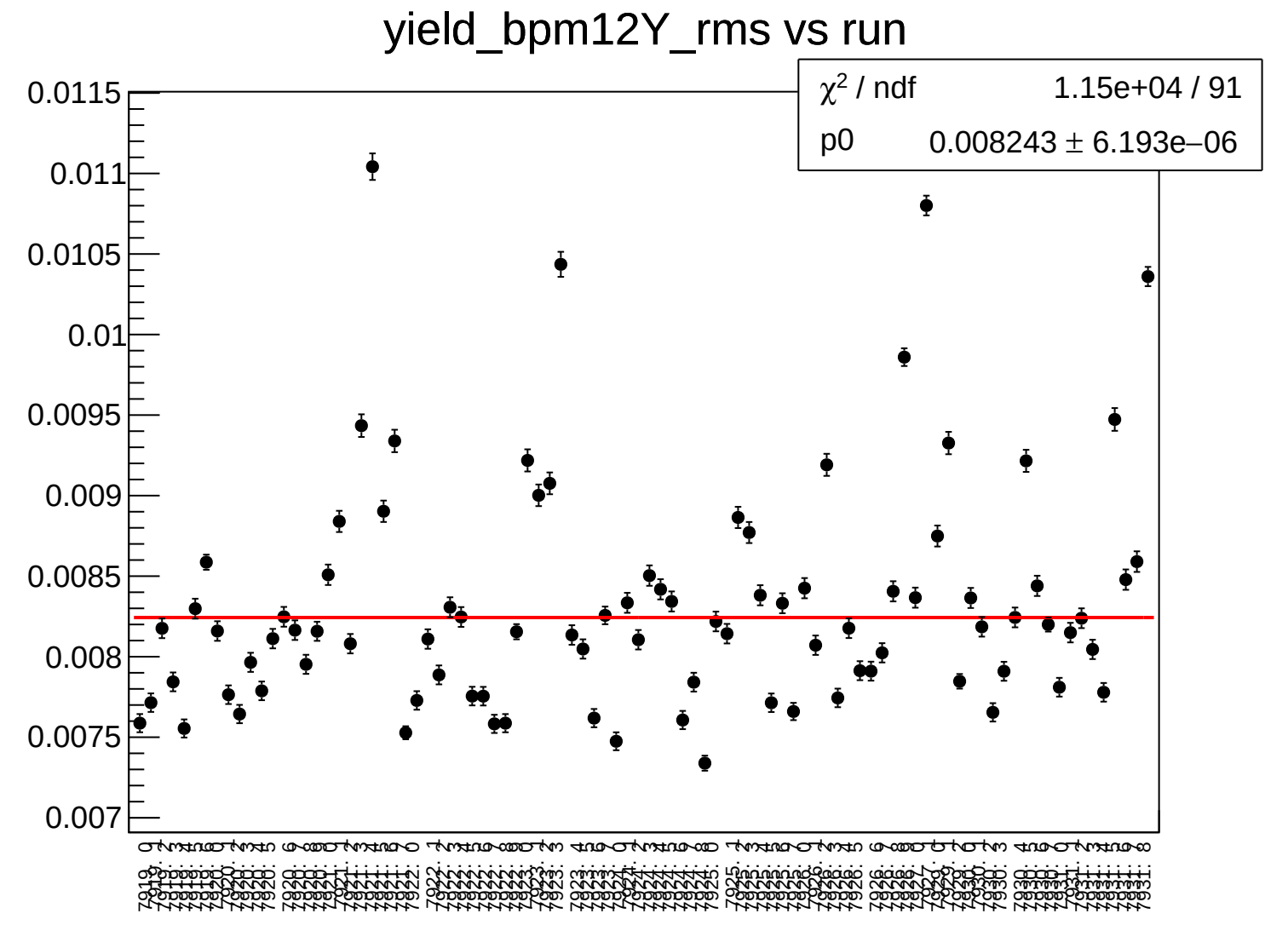

yield_bpm12X_mean vs run
χ² / ndf 1.151e+05 / 91
p0 −0.4843 ± 8.504e−05
−0.4
−0.42
−0.44
−0.46
−0.48
−0.5
−0.52
−0.54
pull
Entries 92
Mean −117.1
Std Dev 0
120
100
80
60
40
20
0
−20
−40
−60

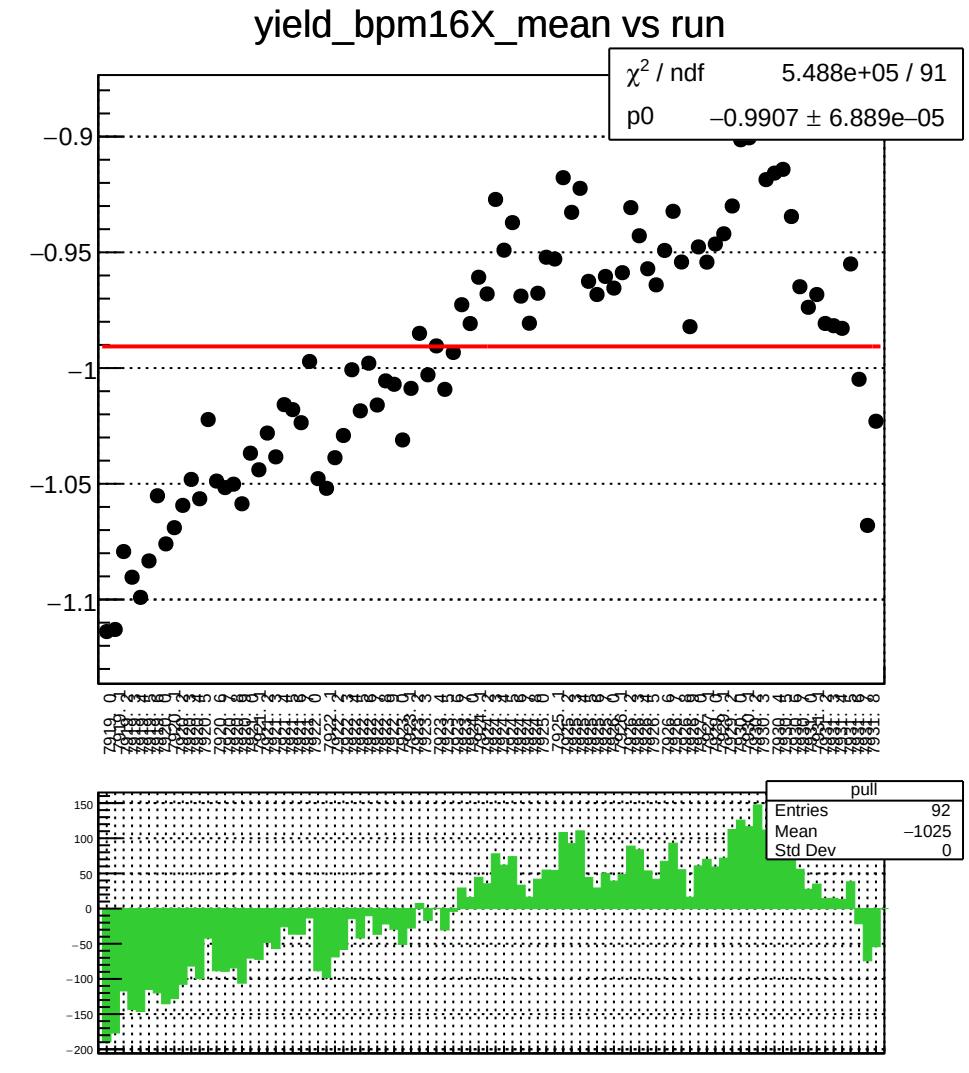

pull1D
Entries 92
Mean 2.208
Std Dev 3.269
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

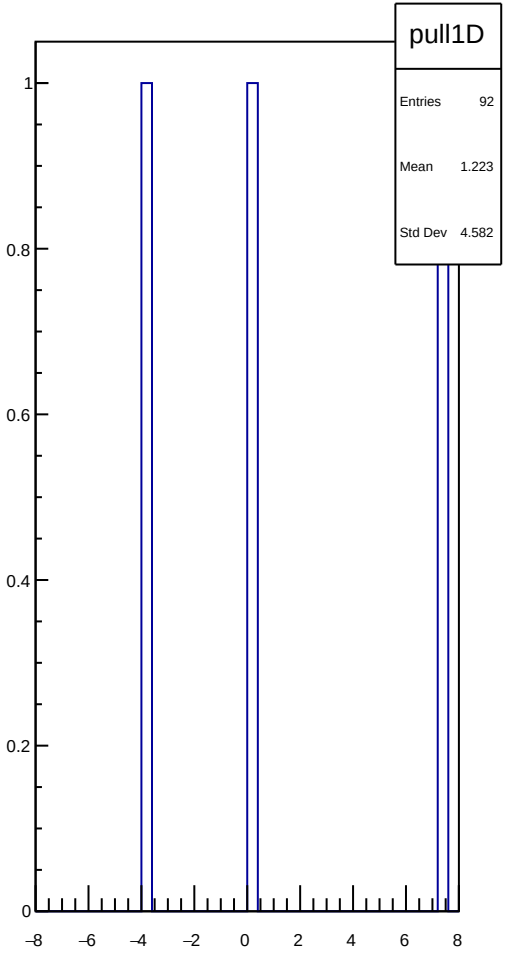

yield_bpm12X_rms vs run
χ^2 / ndf 6.607e+04 / 91
p0 0.07879 ± 6.014e−05
0.16
0.14
0.12
0.1
0.08
0.06

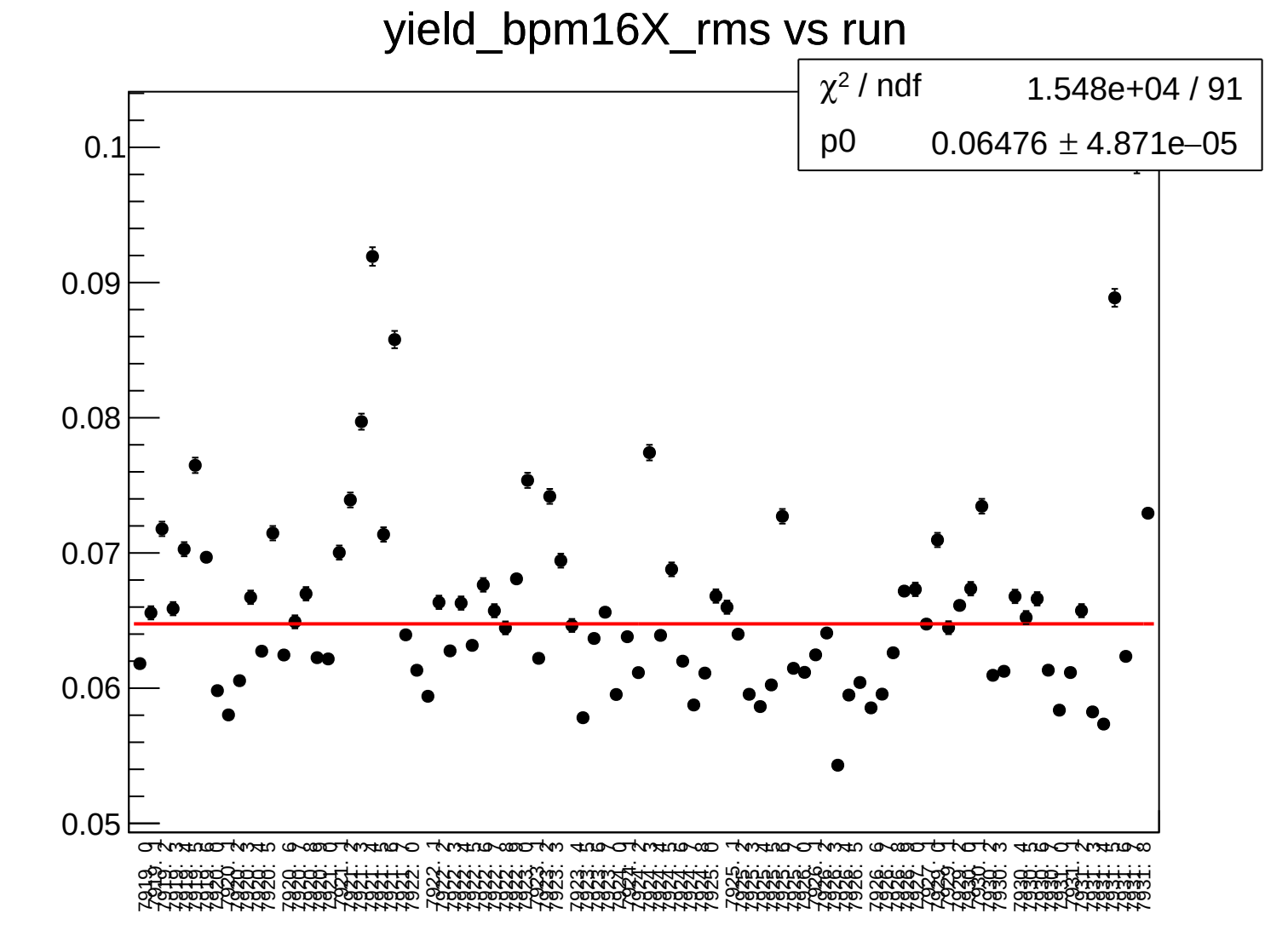

yield_bpm12Y_mean vs run
χ² / ndf 8.597e+05 / 91
p0 1.514 ± 8.759e−06
pull
Entries 92
Mean −353.6
Std Dev 0

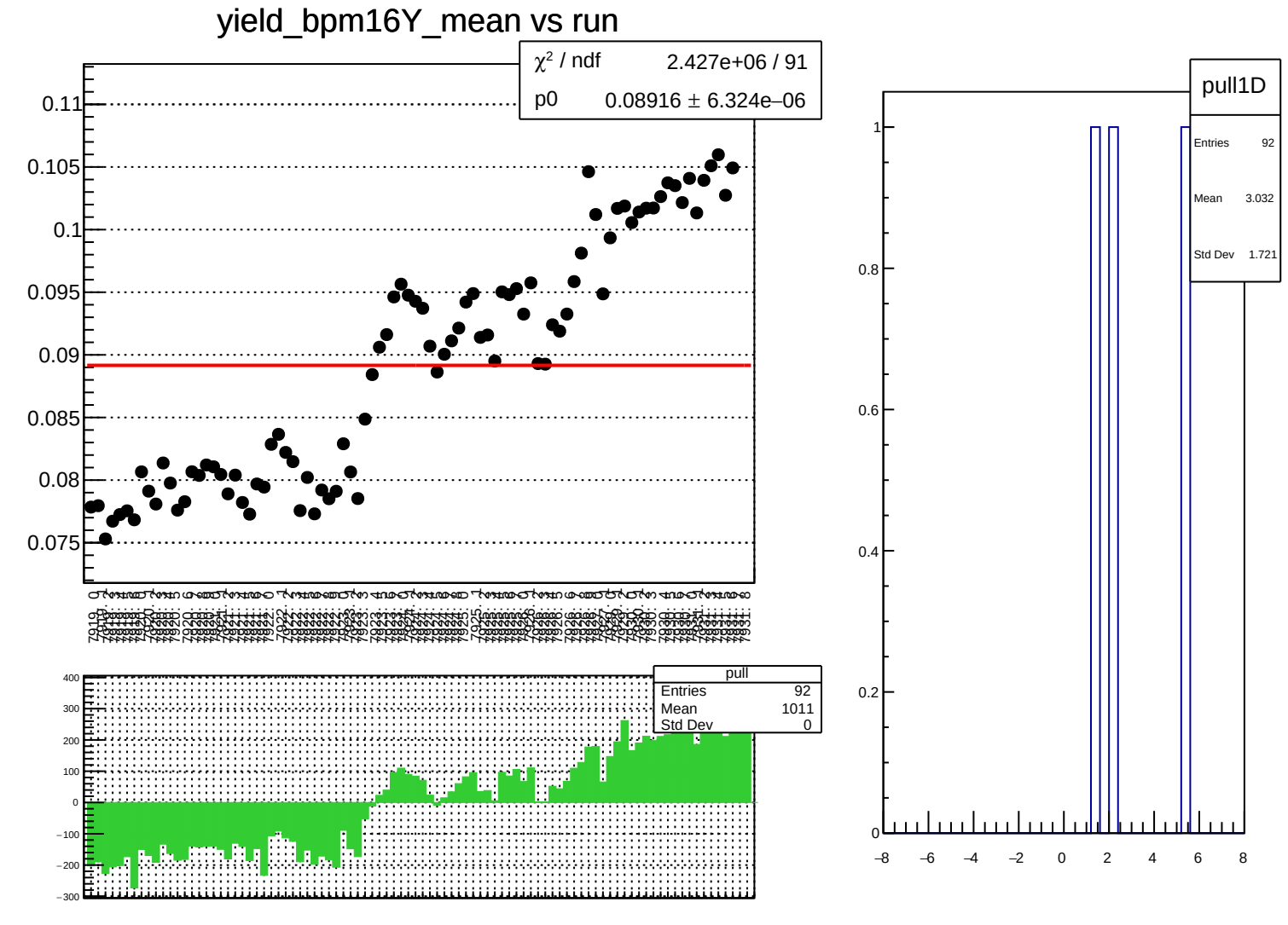

pull1D
Entries 92
Mean 5.805
Std Dev 2.015

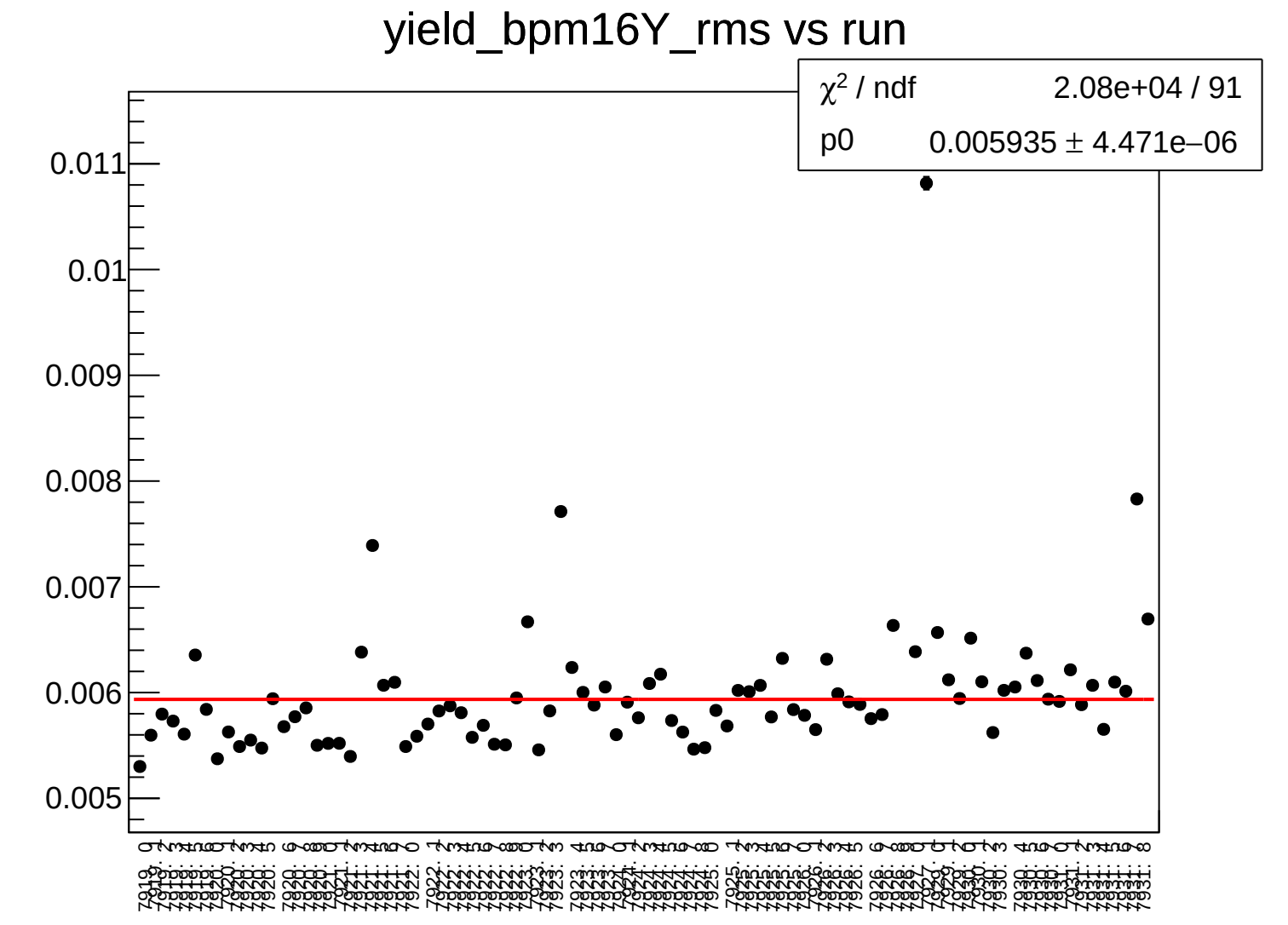

yield_bpm12Y_rms vs run
χ² / ndf 1.15e+04 / 91
p0 0.008243 ± 6.193e−06
0.0115
0.011
0.0105
0.01
0.0095
0.009
0.0085
0.008
0.0075
0.007

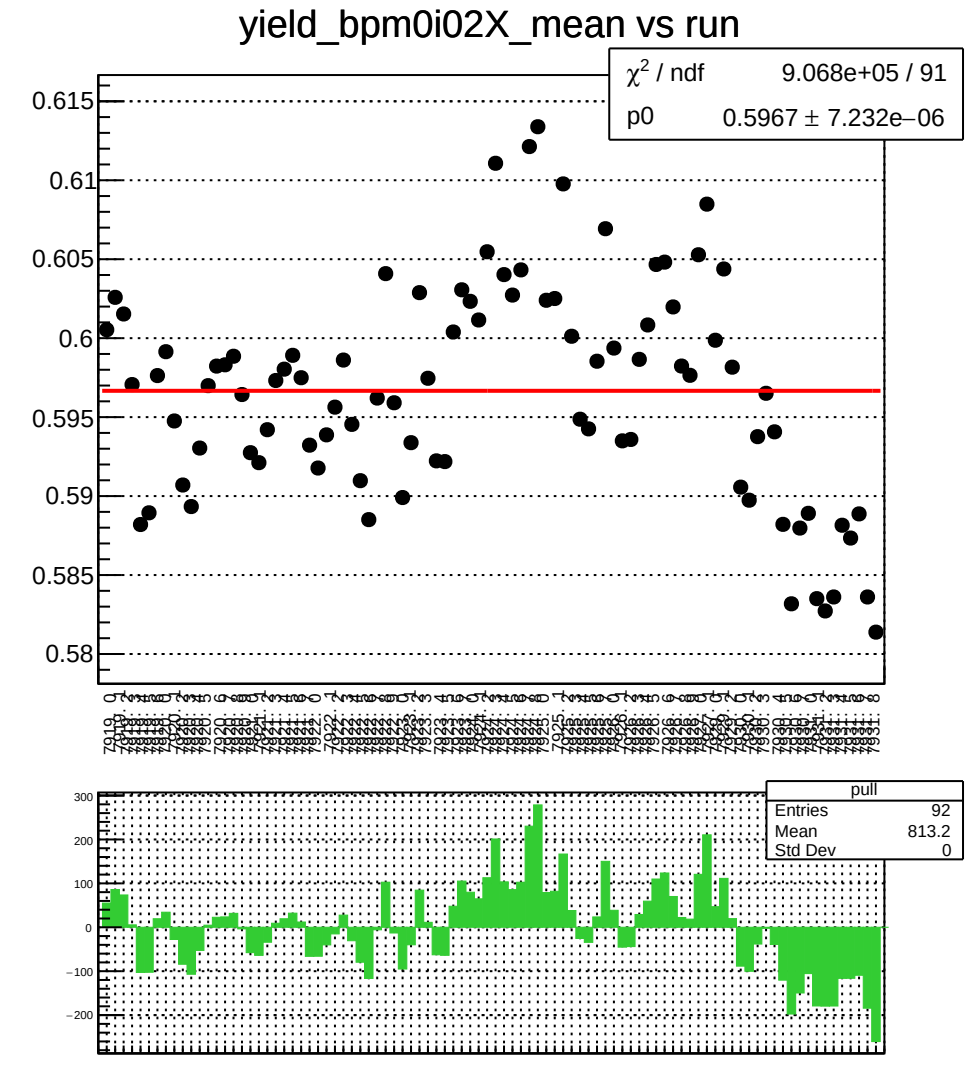

yield_bpm16X_mean vs run
χ² / ndf 5.488e+05 / 91
p0 −0.9907 ± 6.889e−05
−0.9
−0.95
−1
−1.05
−1.1
pull
Entries 92
Mean −1025
Std Dev 0
150
100
50
0
−50
−100
−150
−200

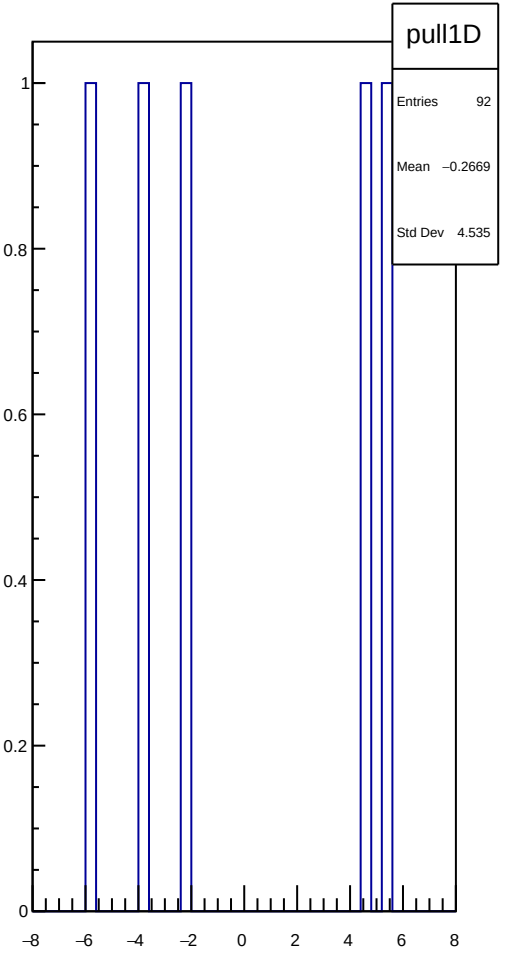

pull1D
Entries 92
Mean 1.223
Std Dev 4.582
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

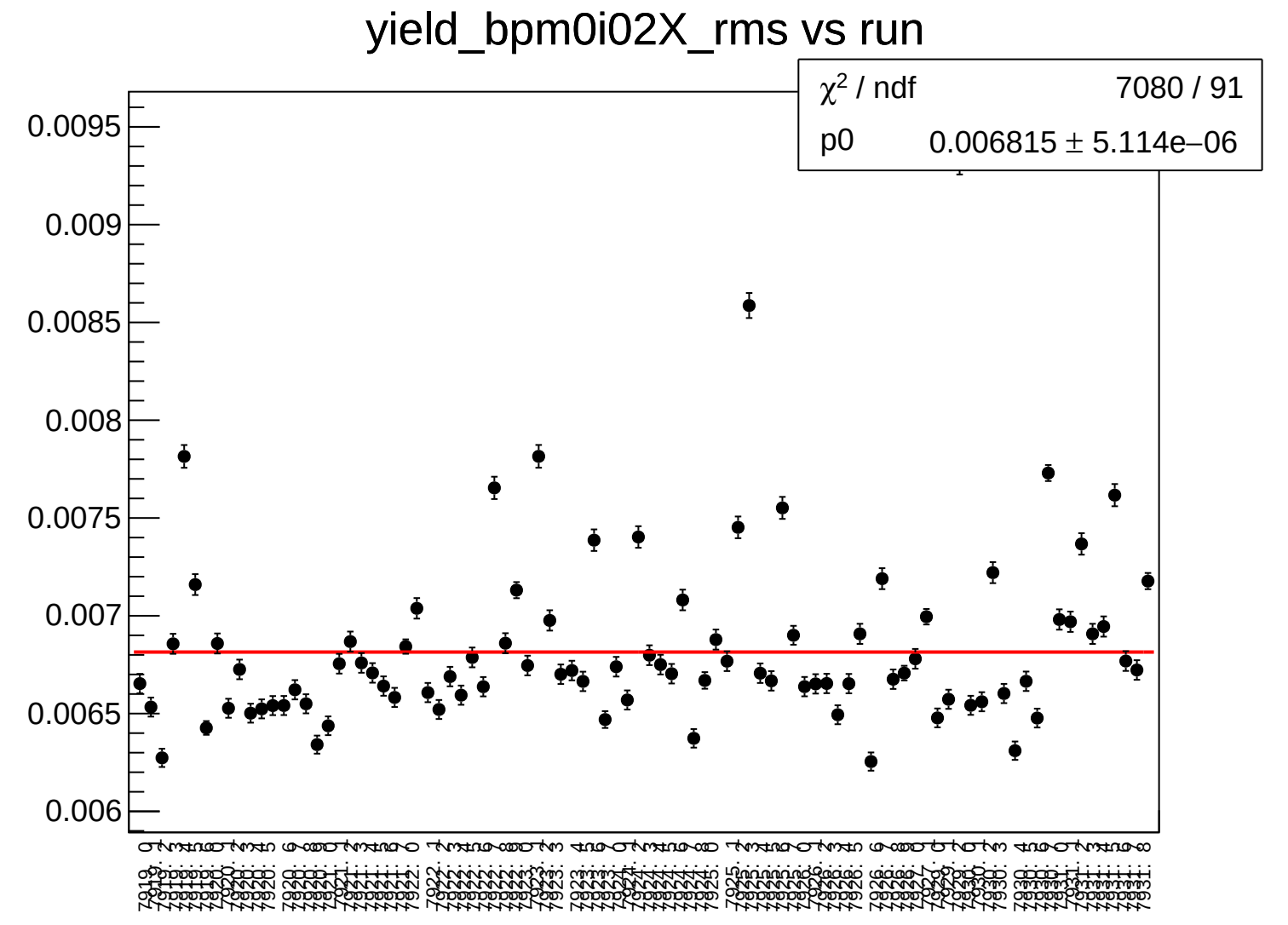

yield_bpm16X_rms vs run
χ² / ndf 1.548e+04 / 91
p0 0.06476 ± 4.871e–05
0.1
0.09
0.08
0.07
0.06
0.05

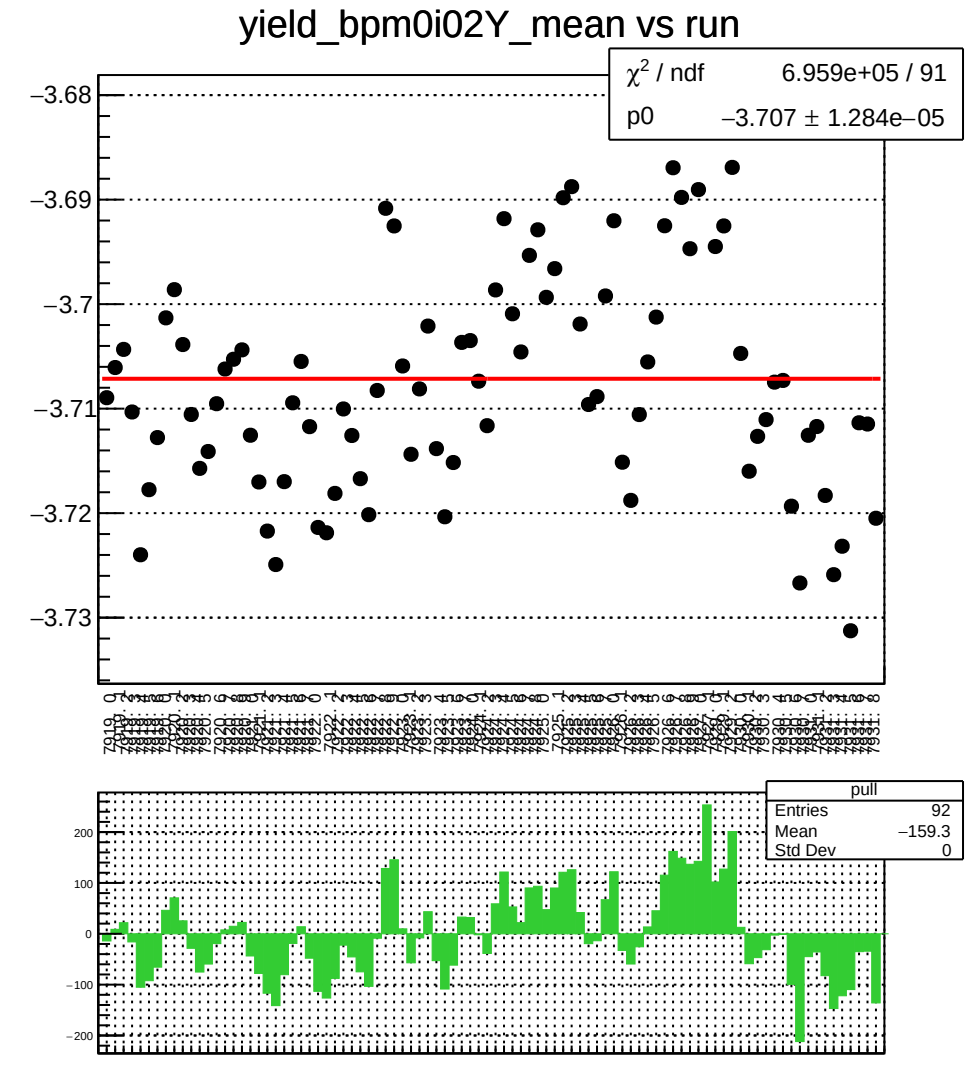

yield_bpm16Y_mean vs run
χ² / ndf 2.427e+06 / 91
p0 0.08916 ± 6.324e−06
0.11
0.105
0.1
0.095
0.09
0.085
0.08
0.075
pull
Entries 92
Mean 1011
Std Dev 0
400
300
200
100
0
−100
−200
−300
pull1D
Entries 92
Mean 3.032
Std Dev 1.721
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

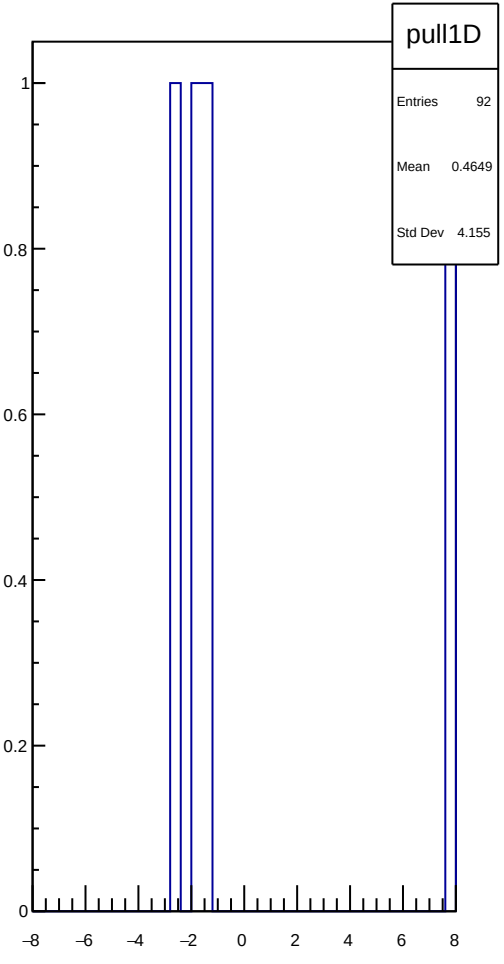

yield_bpm16Y_rms vs run
χ² / ndf 2.08e+04 / 91
p0 0.005935 ± 4.471e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005

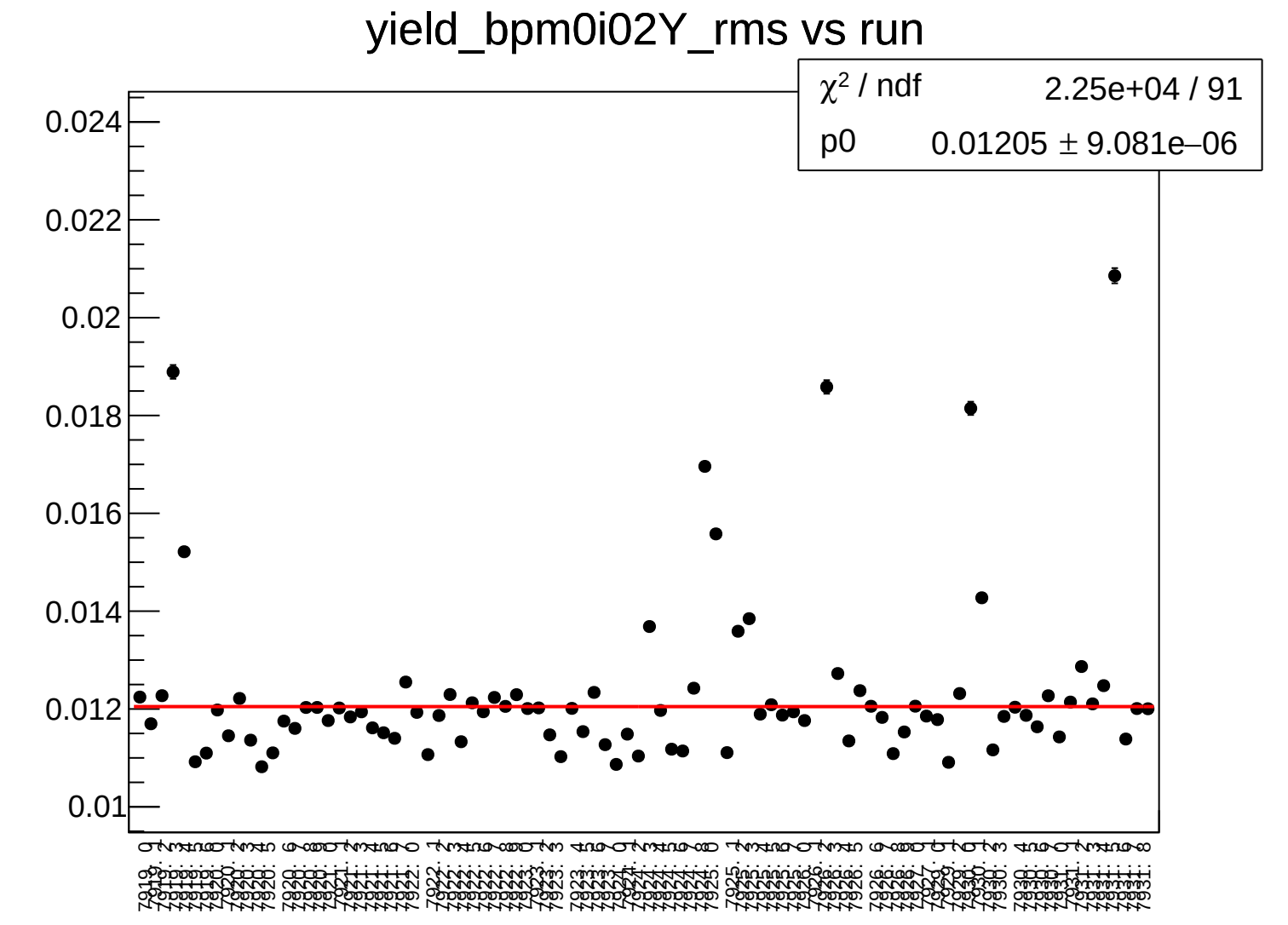

yield_bpm0i02X_mean vs run
χ² / ndf 9.068e+05 / 91
p0 0.5967 ± 7.232e−06
0.615
0.61
0.605
0.6
0.595
0.59
0.585
0.58
pull
Entries 92
Mean 813.2
Std Dev 0
300
200
100
0
−100
−200

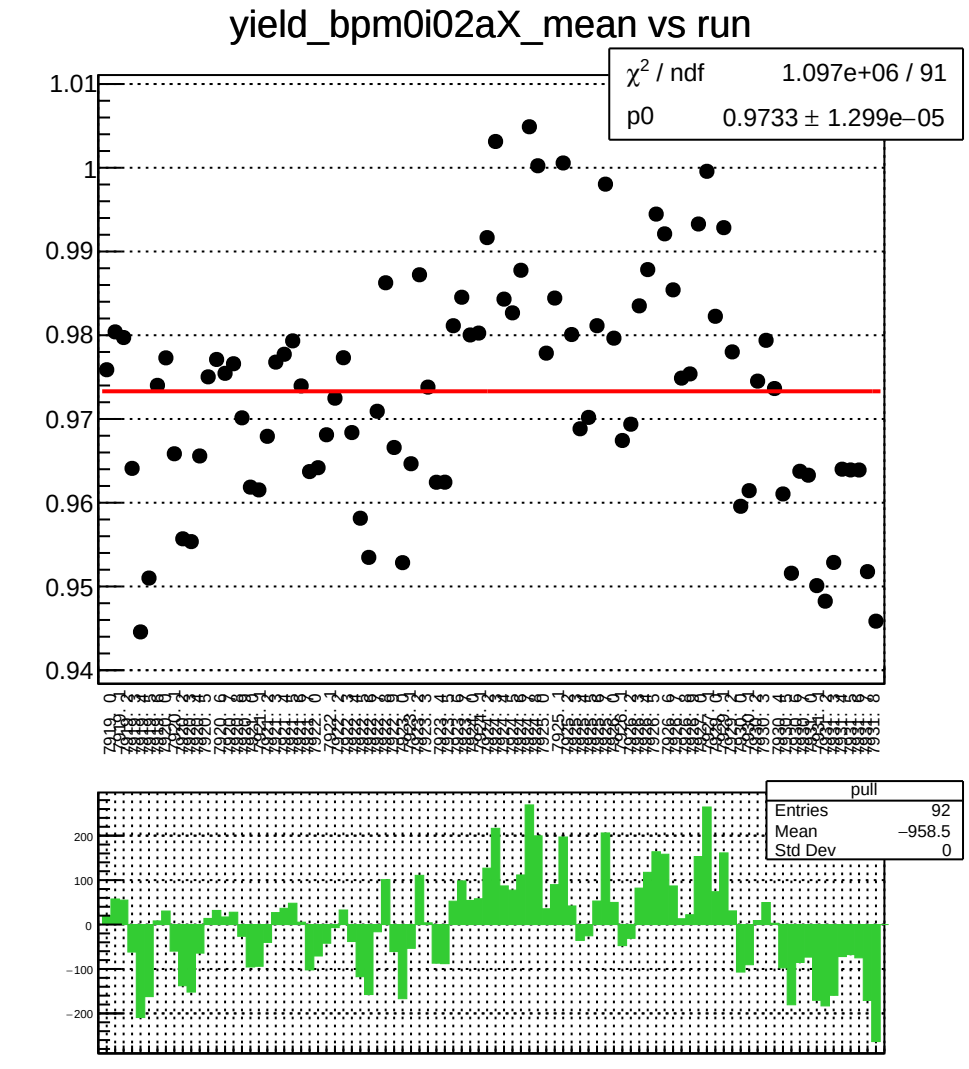

pull1D
Entries 92
Mean −0.2669
Std Dev 4.535
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

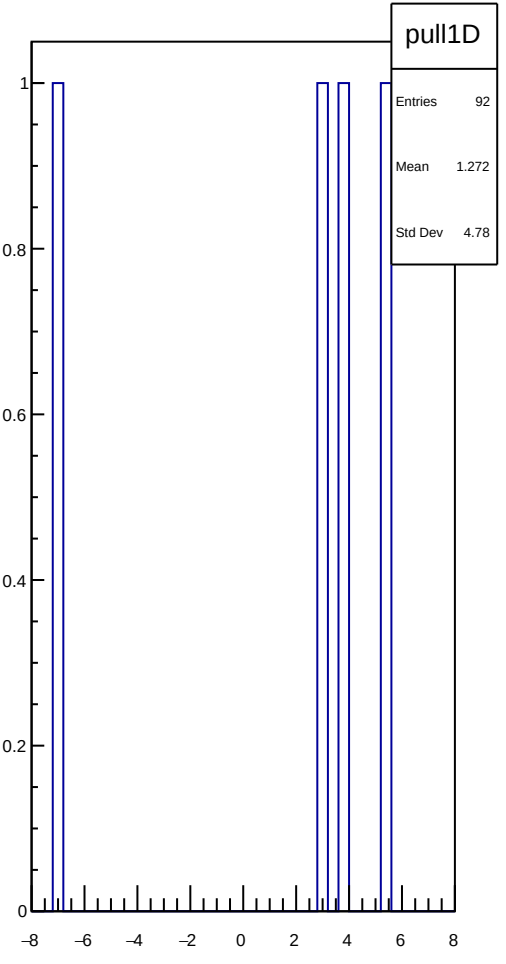

yield_bpm0i02X_rms vs run
χ² / ndf 7080 / 91
p0 0.006815 ± 5.114e−06
0.0095
0.009
0.0085
0.008
0.0075
0.007
0.0065
0.006

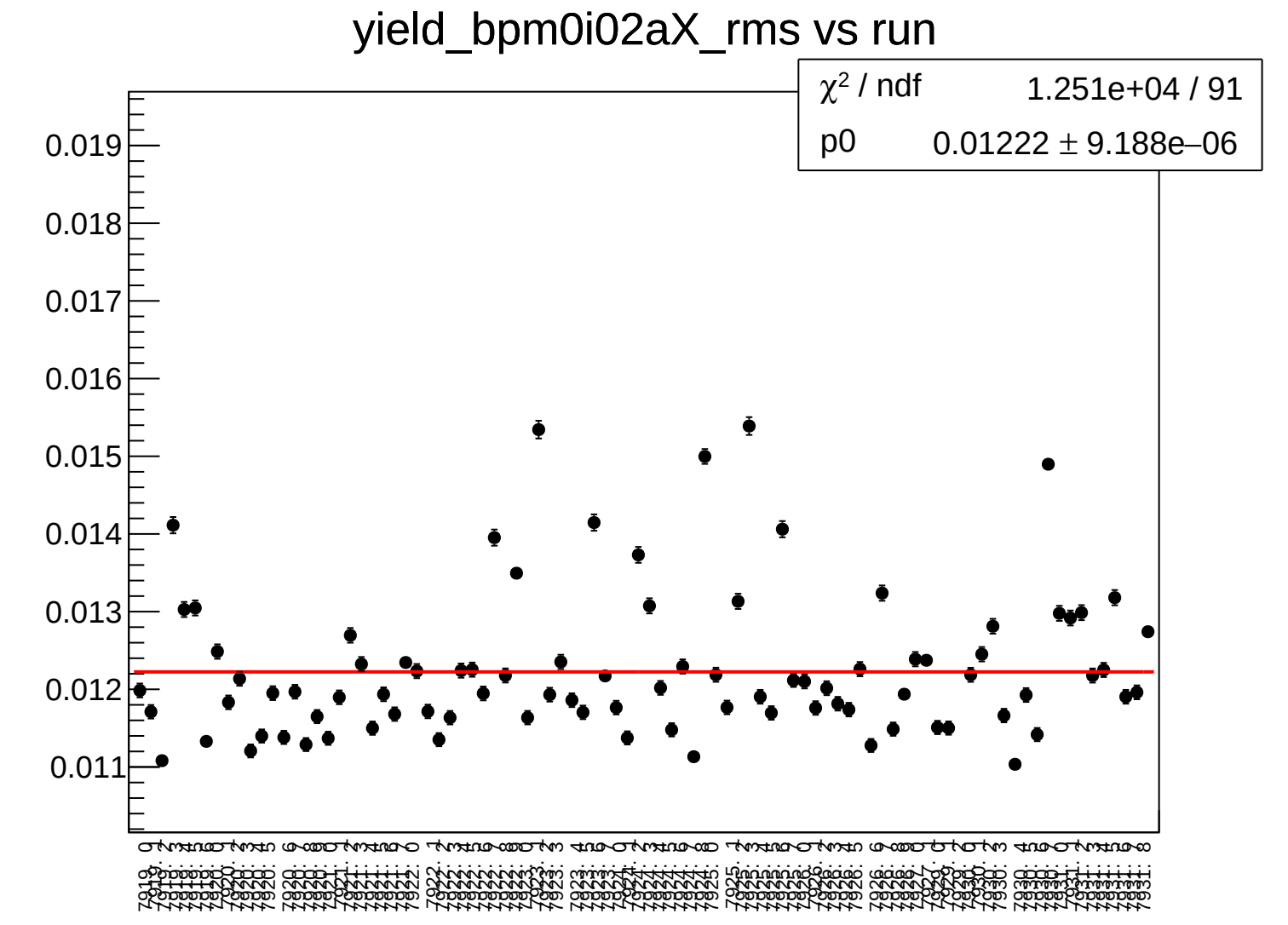

yield_bpm0i02Y_mean vs run
χ² / ndf 6.959e+05 / 91
p0 −3.707 ± 1.284e−05
−3.68
−3.69
−3.7
−3.71
−3.72
−3.73
pull
Entries 92
Mean −159.3
Std Dev 0
200
100
0
−100
−200

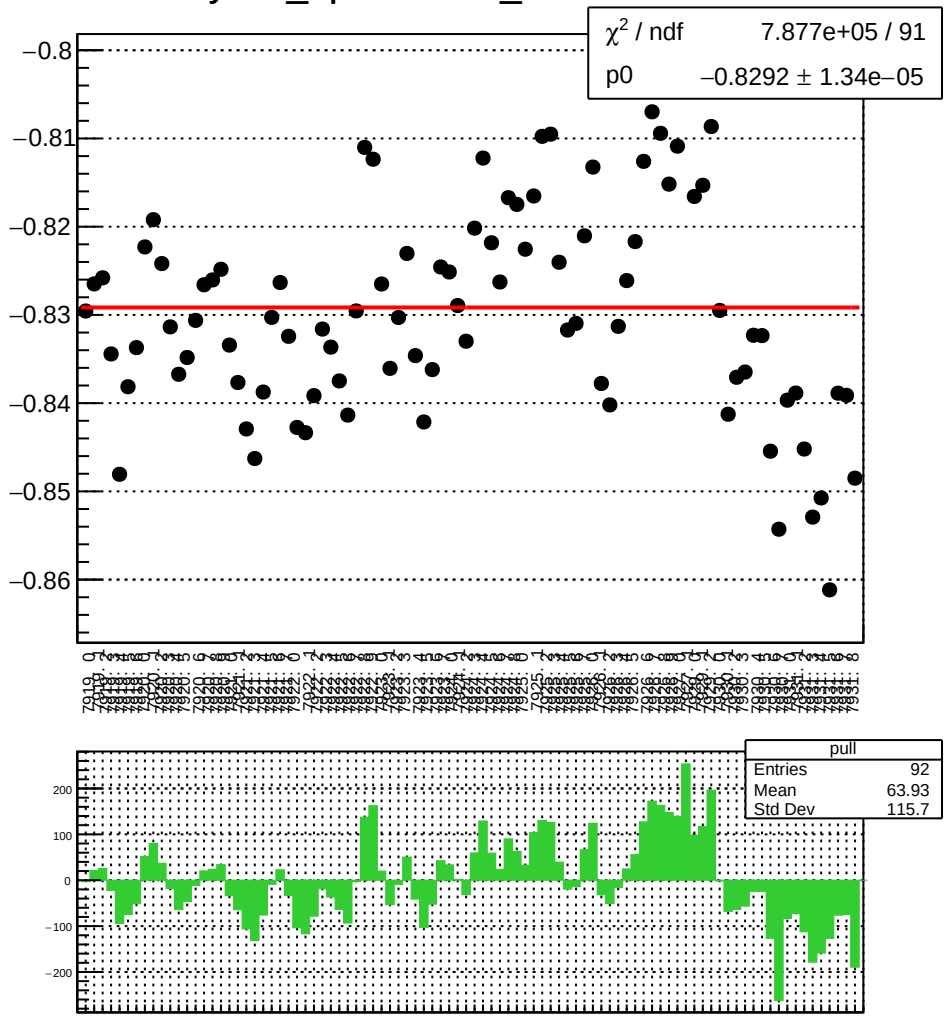

pull1D
Entries 92
Mean 0.4649
Std Dev 4.155
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

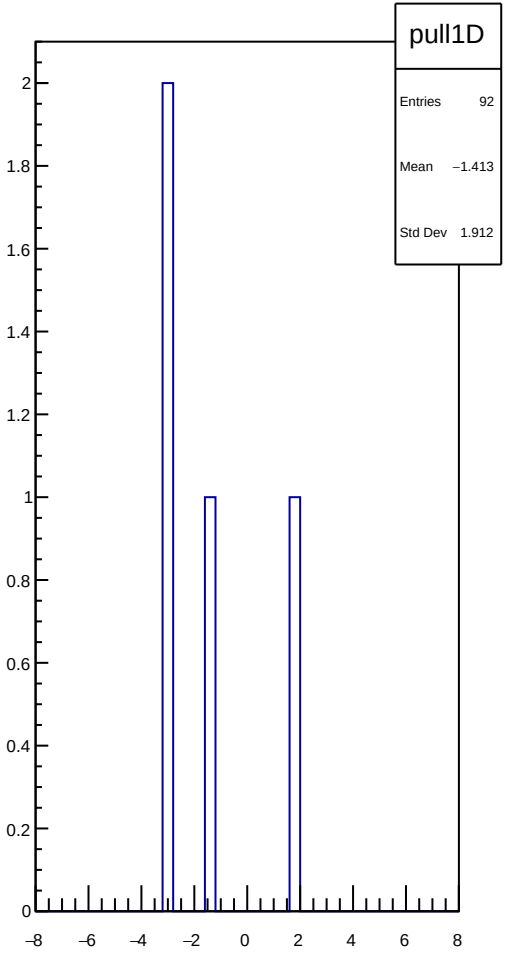

yield_bpm0i02Y_rms vs run
χ² / ndf 2.25e+04 / 91
p0 0.01205 ± 9.081e−06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

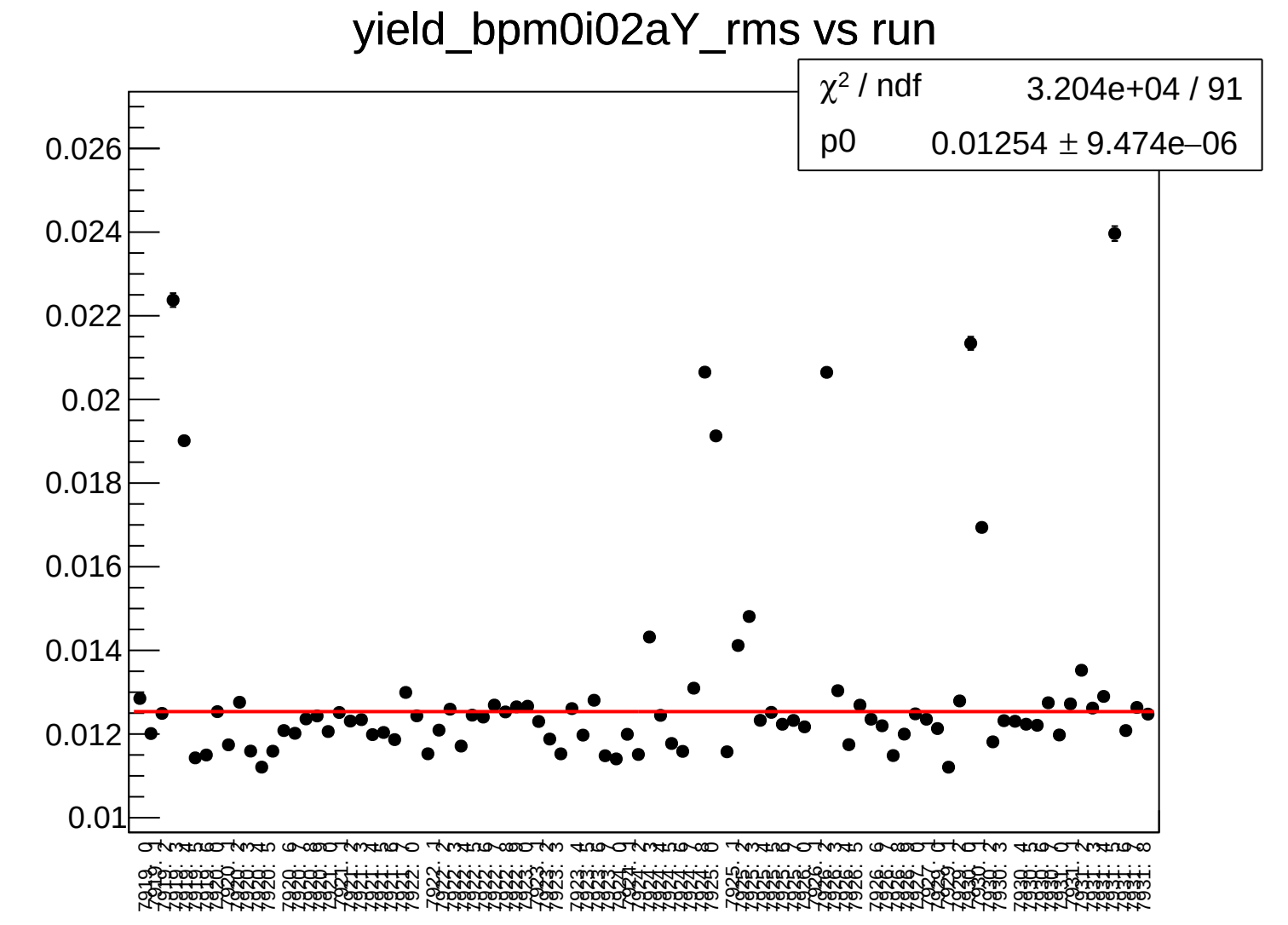

yield_bpm0i02aX_mean vs run
χ² / ndf 1.097e+06 / 91
p0 0.9733 ± 1.299e−05
1.01
1
0.99
0.98
0.97
0.96
0.95
0.94
pull
Entries 92
Mean −958.5
Std Dev 0
200
100
0
−100
−200

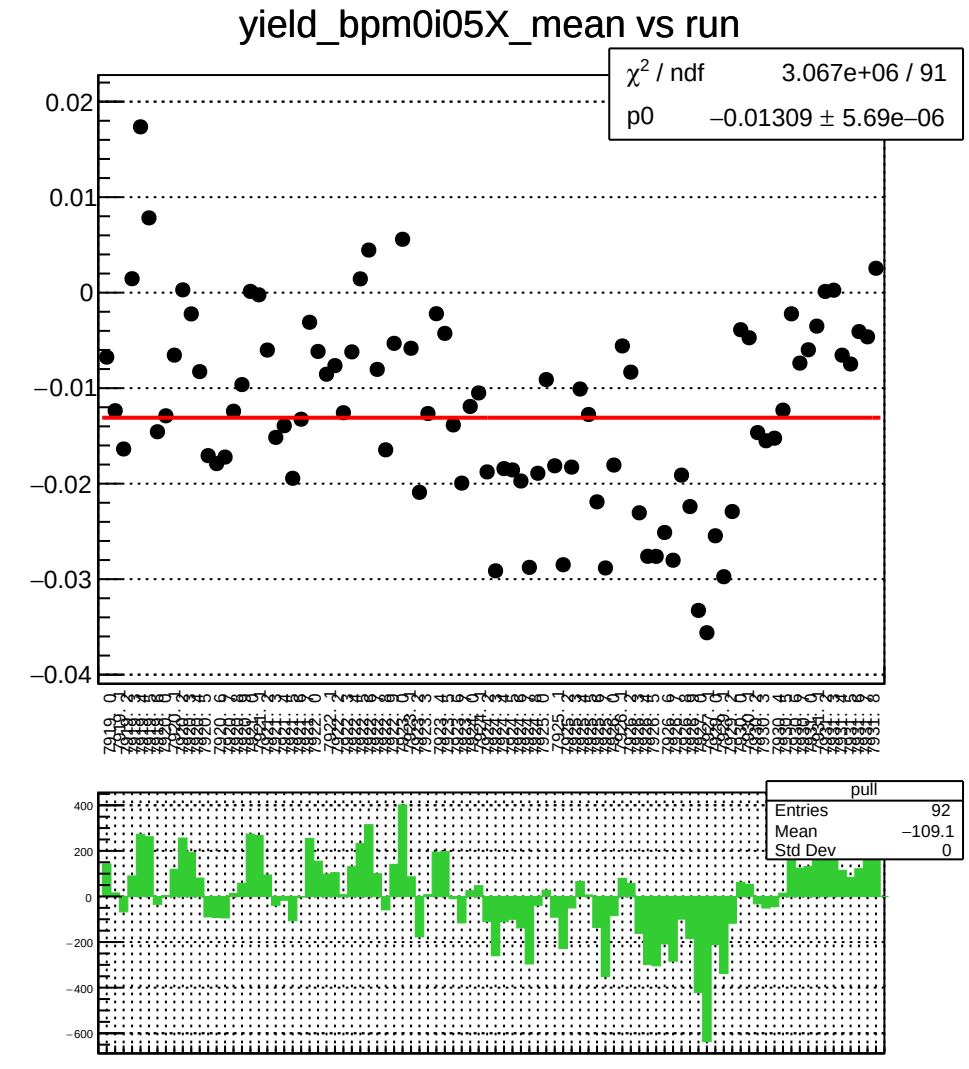

pull1D
Entries 92
Mean 1.272
Std Dev 4.78
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

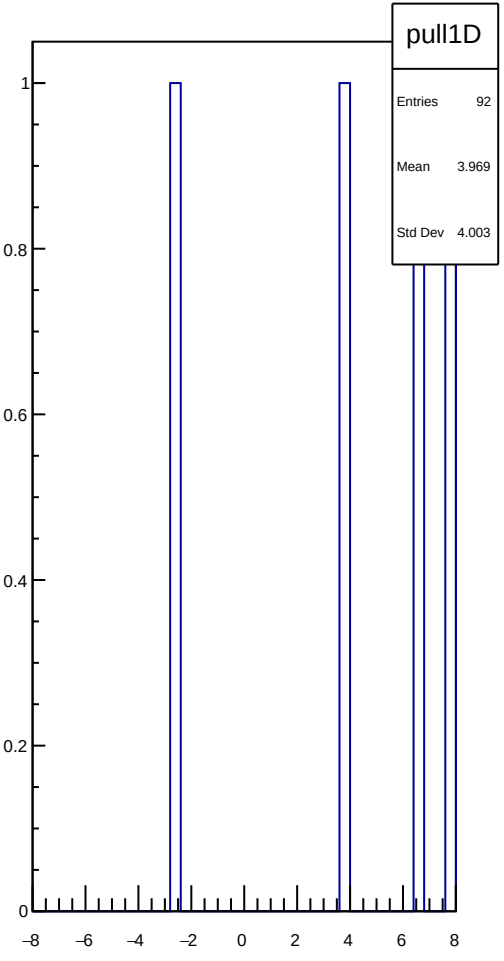

yield_bpm0i02aX_rms vs run
χ² / ndf 1.251e+04 / 91
p0 0.01222 ± 9.188e–06
0.019
0.018
0.017
0.016
0.015
0.014
0.013
0.012
0.011

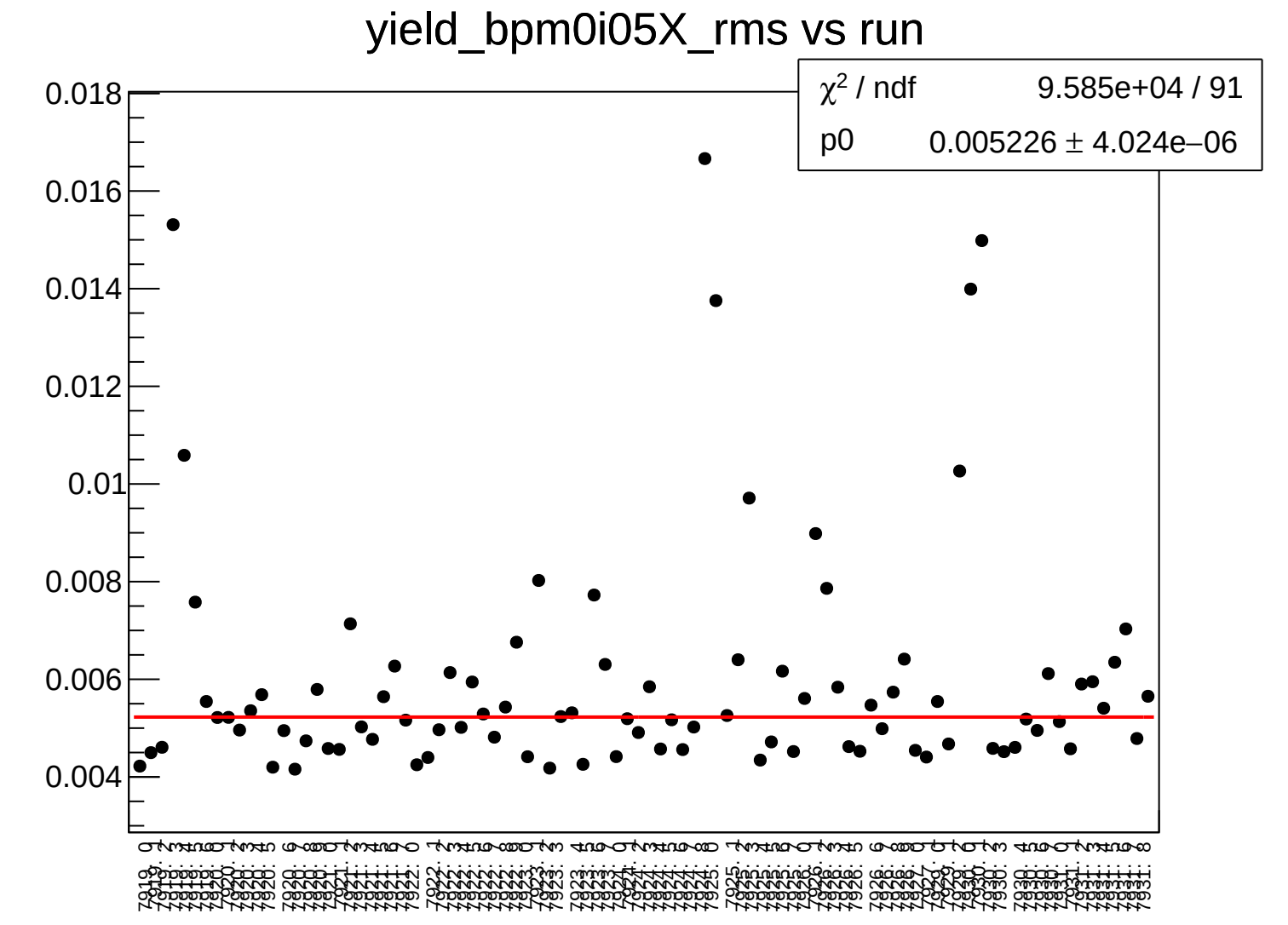

yield_bpm0i02aY_mean vs run
χ² / ndf 7.877e+05 / 91
p0 −0.8292 ± 1.34e−05
−0.8
−0.81
−0.82
−0.83
−0.84
−0.85
−0.86
pull
Entries 92
Mean 63.93
Std Dev 115.7
200
100
0
−100
−200

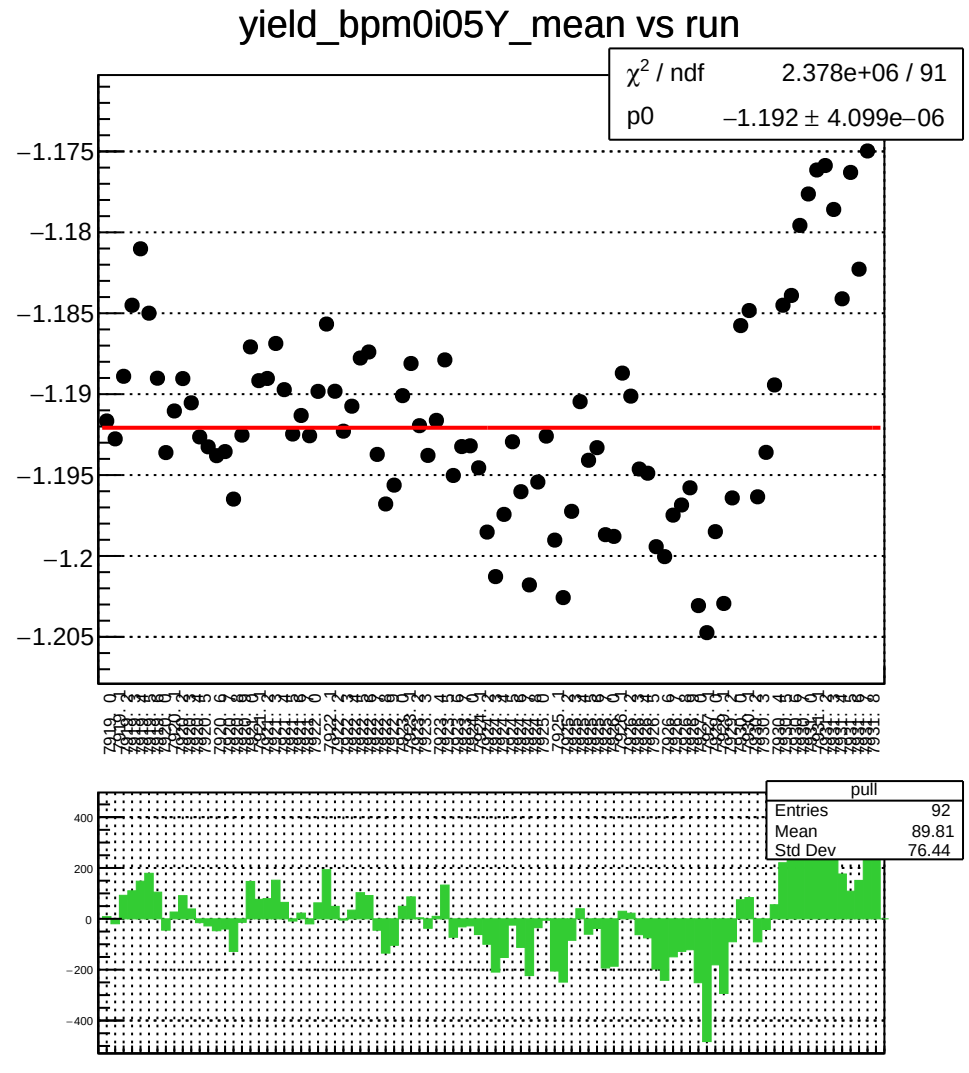

pull1D
Entries 92
Mean −1.413
Std Dev 1.912
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

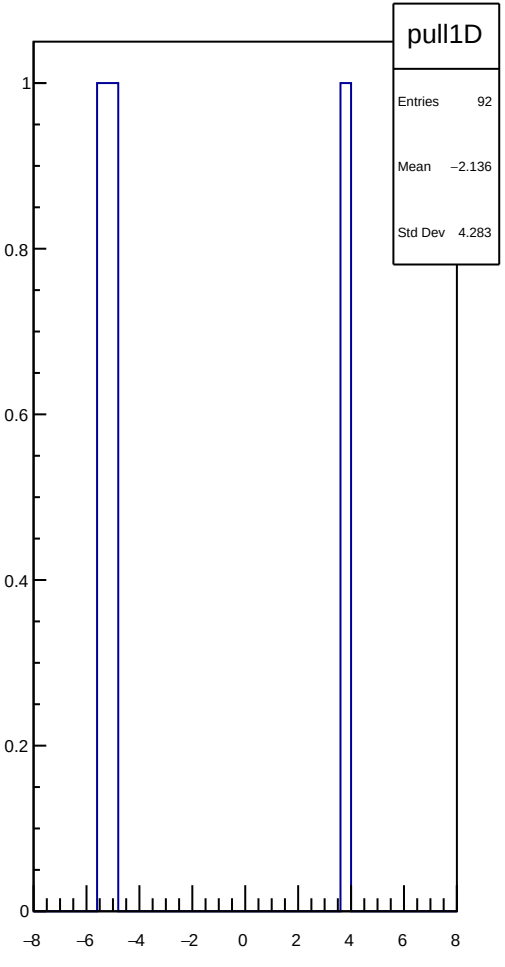

yield_bpm0i02aY_rms vs run
χ² / ndf 3.204e+04 / 91
p0 0.01254 ± 9.474e–06
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

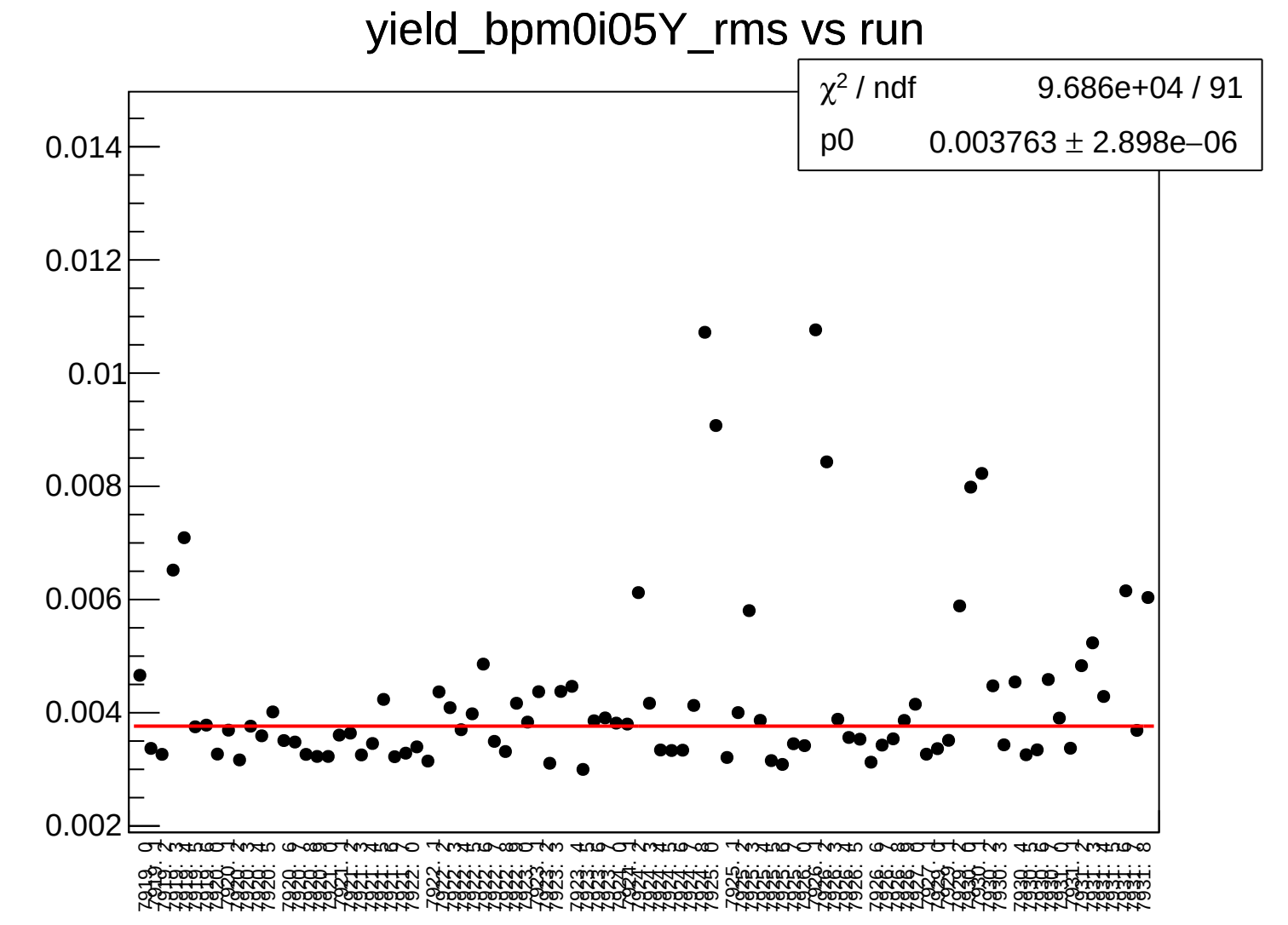

yield_bpm0i05X_mean vs run
χ² / ndf 3.067e+06 / 91
p0 −0.01309 ± 5.69e−06
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 92
Mean −109.1
Std Dev 0
400
200
0
−200
−400
−600

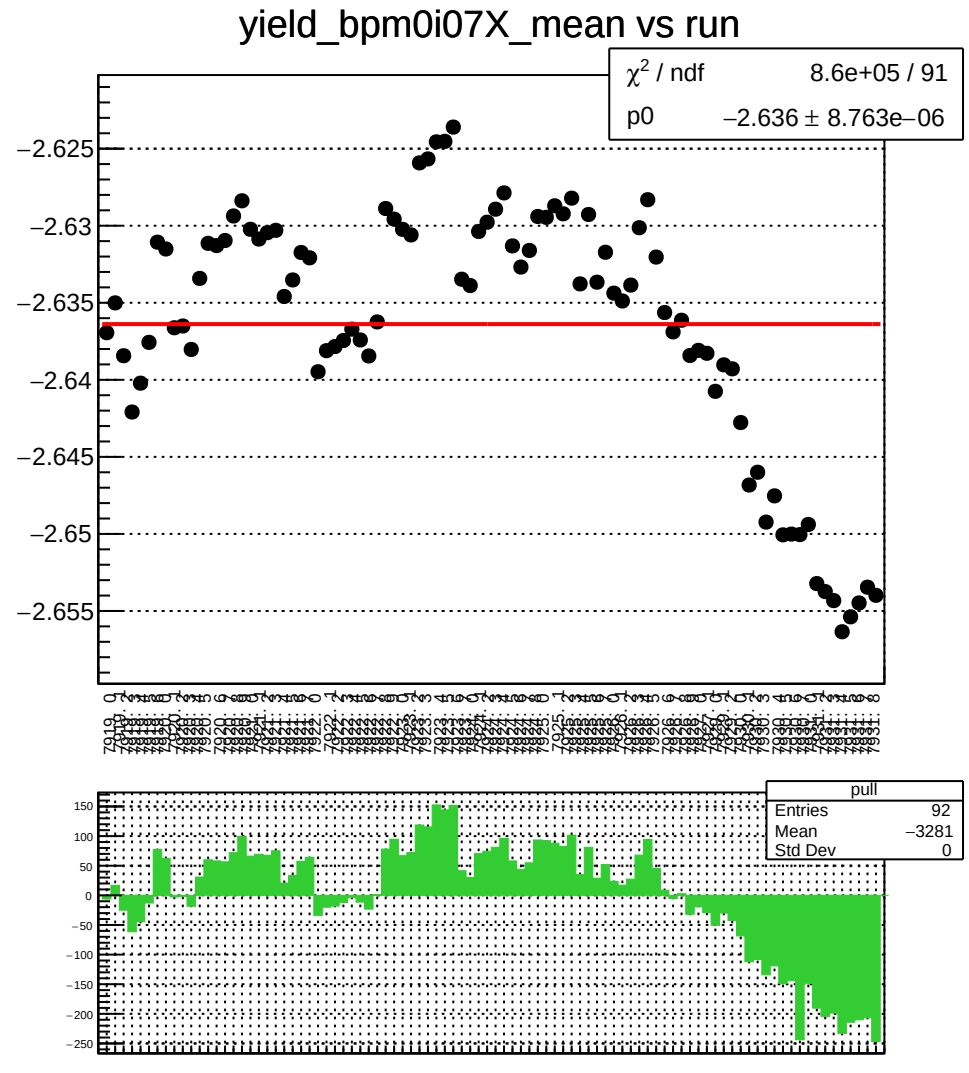

pull1D
Entries 92
Mean 3.969
Std Dev 4.003
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

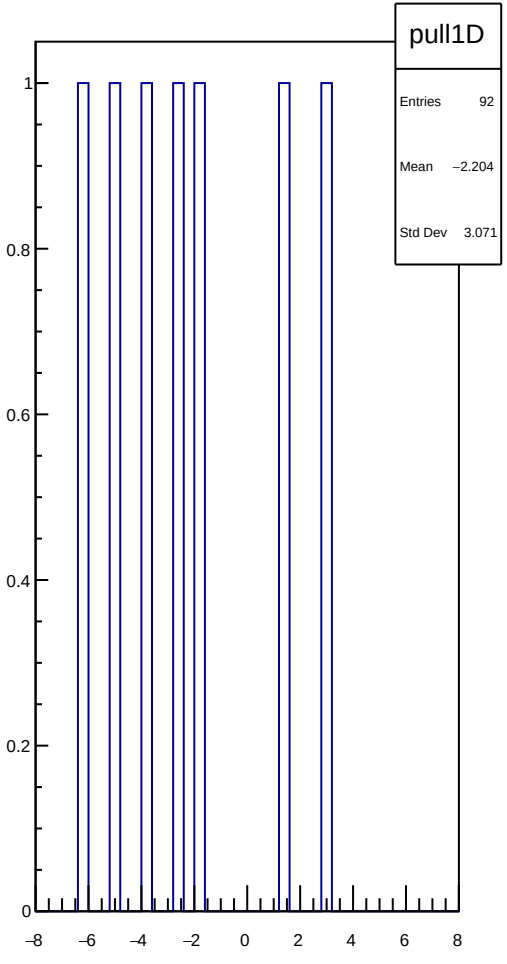

yield_bpm0i05X_rms vs run
χ^2 / ndf 9.585e+04 / 91
p0 0.005226 ± 4.024e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

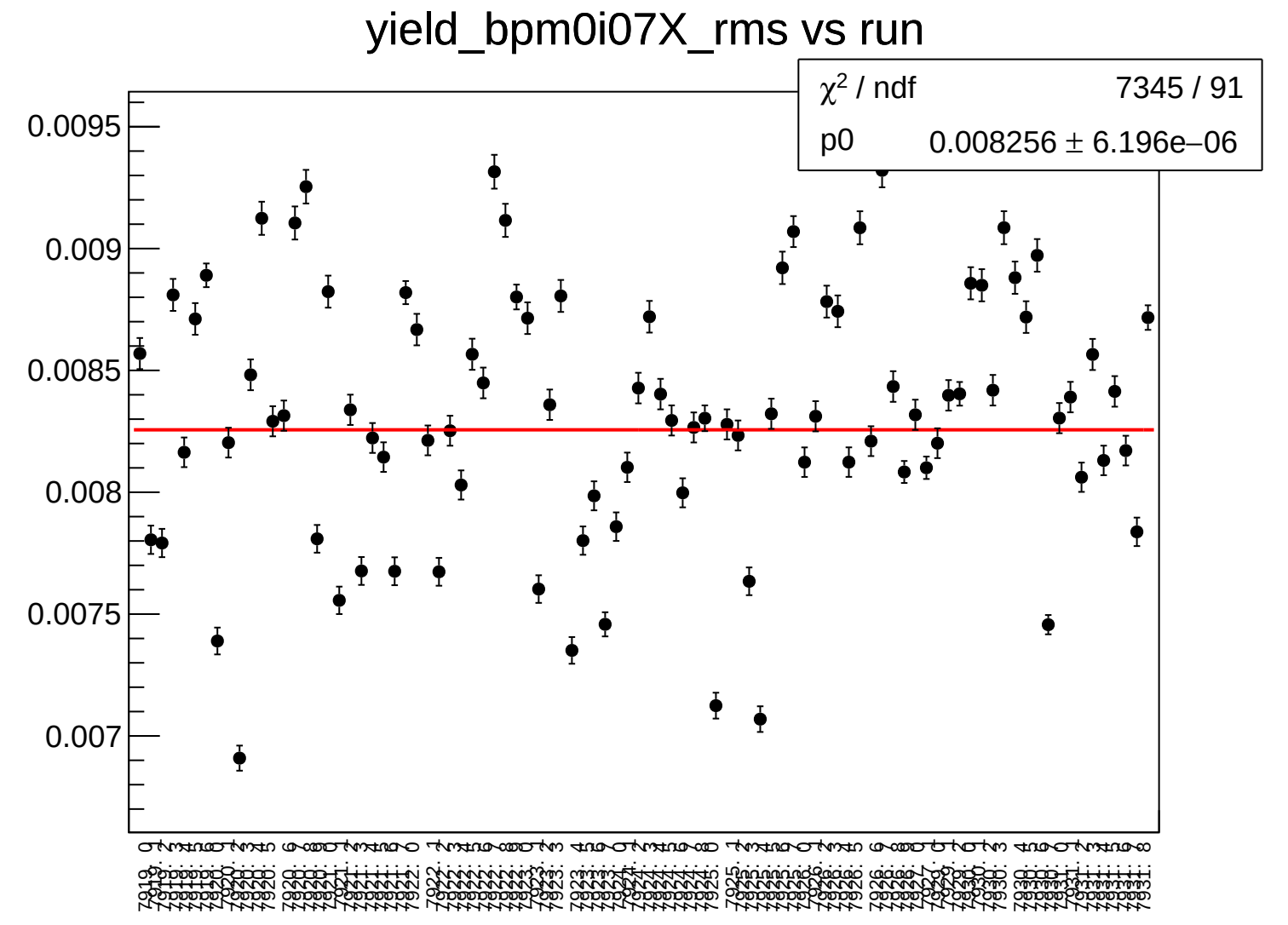

yield_bpm0i05Y_mean vs run
χ² / ndf 2.378e+06 / 91
p0 −1.192 ± 4.099e−06
−1.175
−1.18
−1.185
−1.19
−1.195
−1.2
−1.205
pull
Entries 92
Mean 89.81
Std Dev 76.44
400
200
0
−200
−400

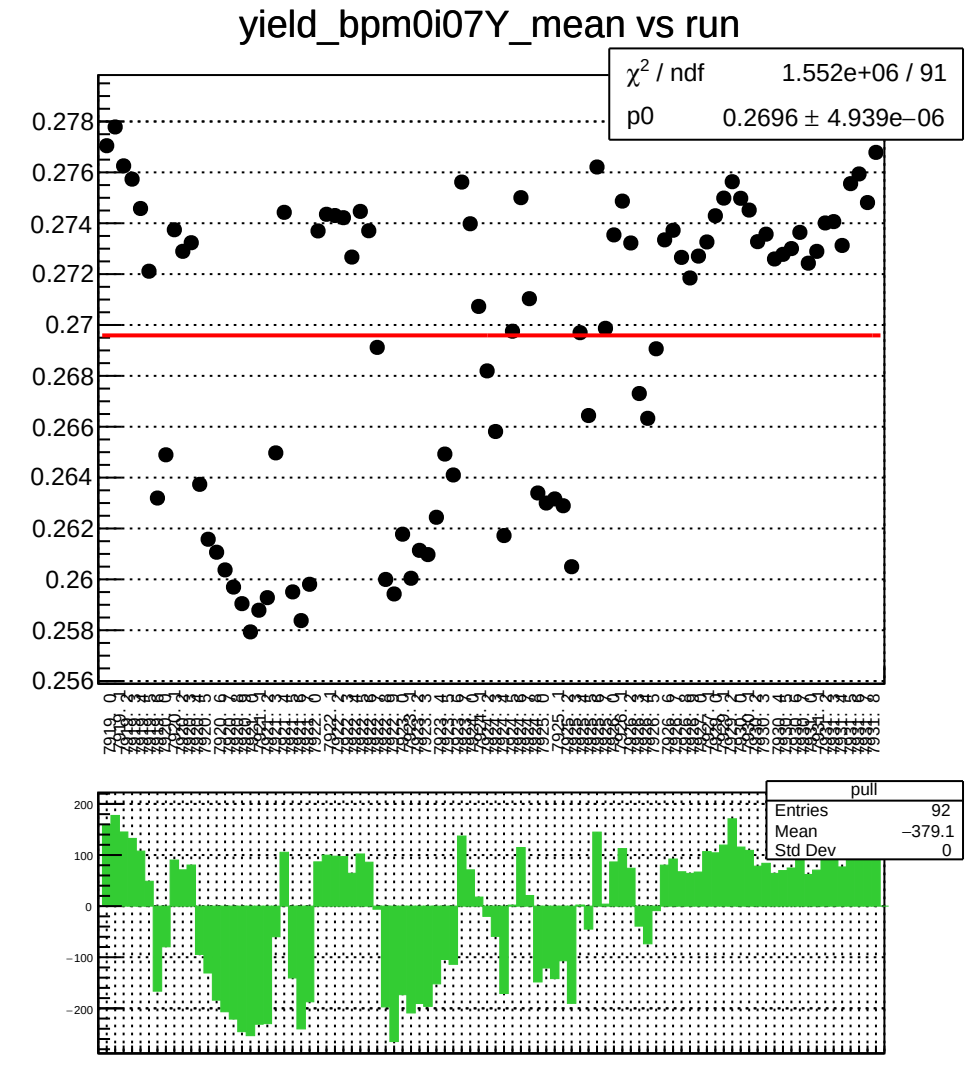

pull1D
Entries 92
Mean −2.136
Std Dev 4.283
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

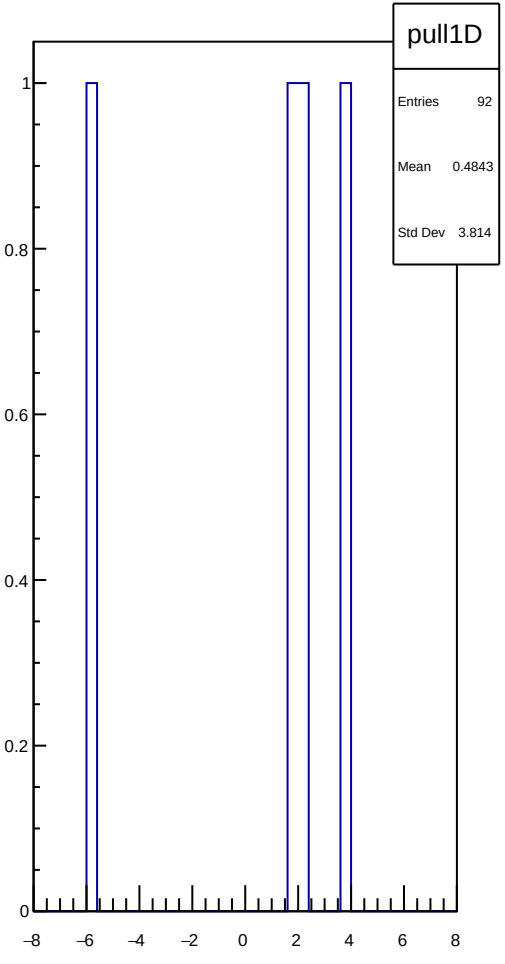

yield_bpm0i05Y_rms vs run
χ² / ndf 9.686e+04 / 91
p0 0.003763 ± 2.898e−06
0.014
0.012
0.01
0.008
0.006
0.004
0.002

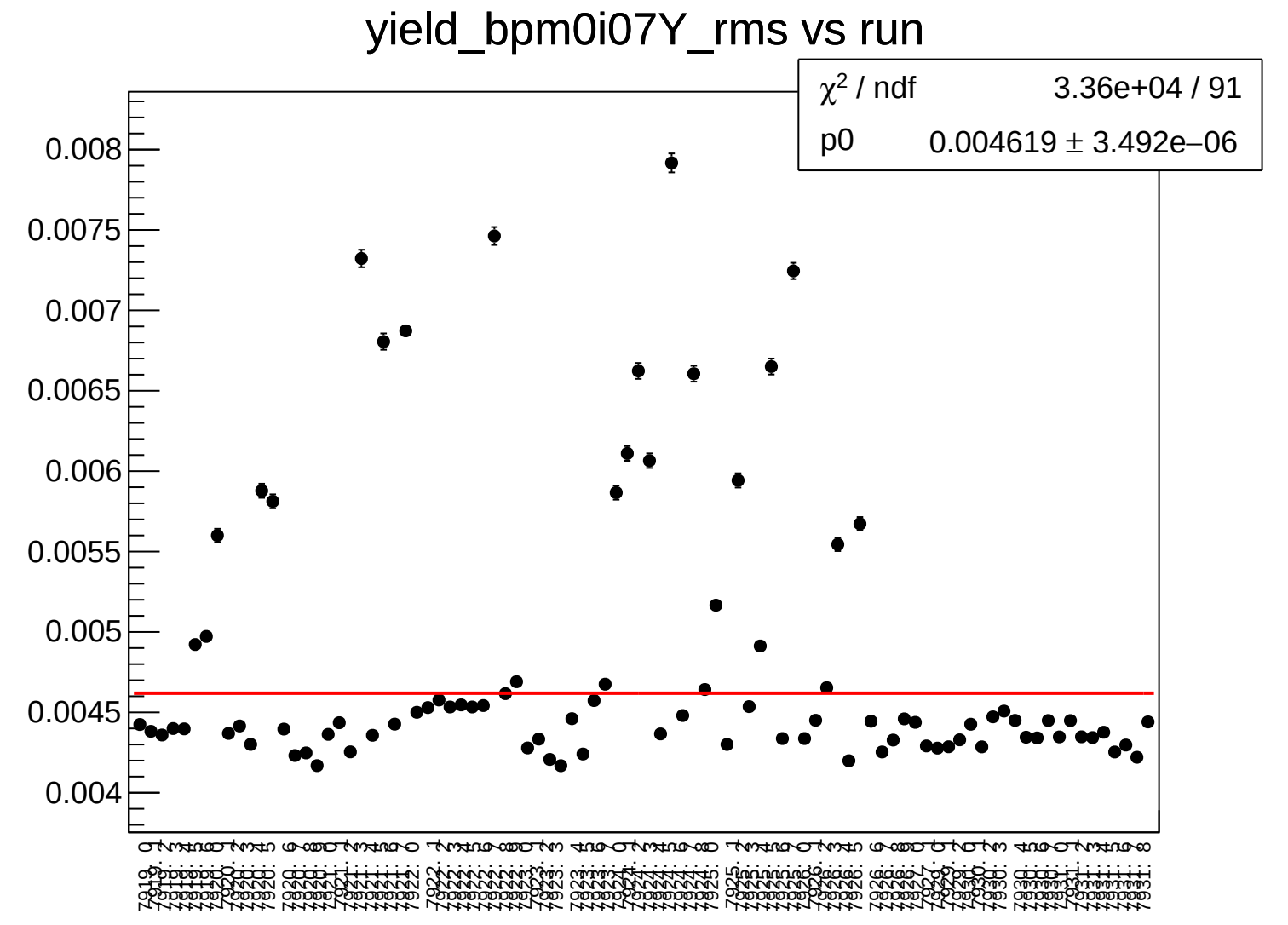

yield_bpm0i07X_mean vs run
χ² / ndf 8.6e+05 / 91
p0 −2.636 ± 8.763e−06
−2.625
−2.63
−2.635
−2.64
−2.645
−2.65
−2.655
pull
Entries 92
Mean −3281
Std Dev 0
150
100
50
0
−50
−100
−150
−200
−250

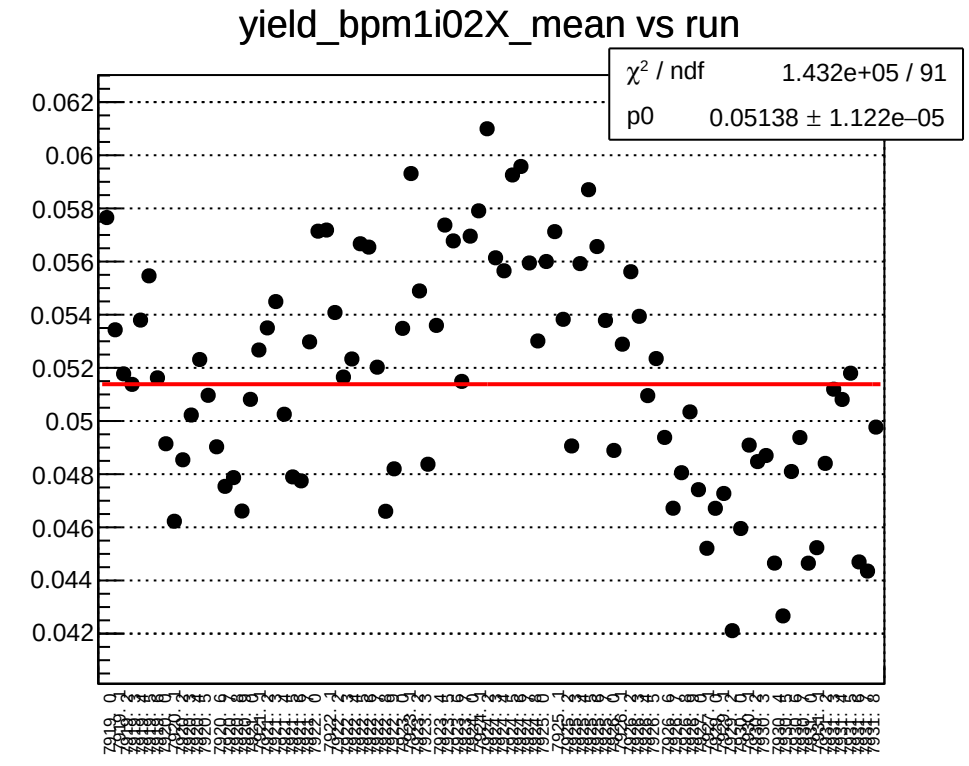

pull1D
Entries 92
Mean −2.204
Std Dev 3.071
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

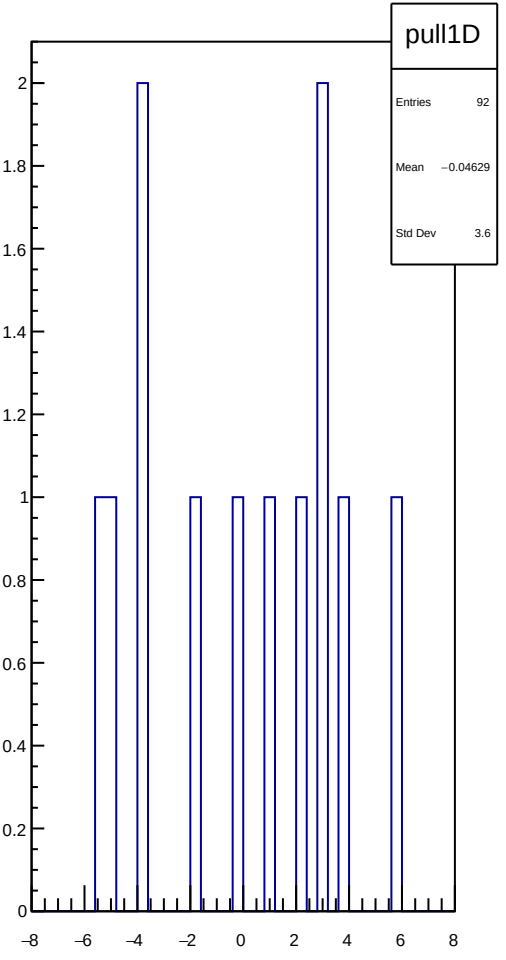

yield_bpm0i07X_rms vs run
χ² / ndf 7345 / 91
p0 0.008256 ± 6.196e−06
0.0095
0.009
0.0085
0.008
0.0075
0.007

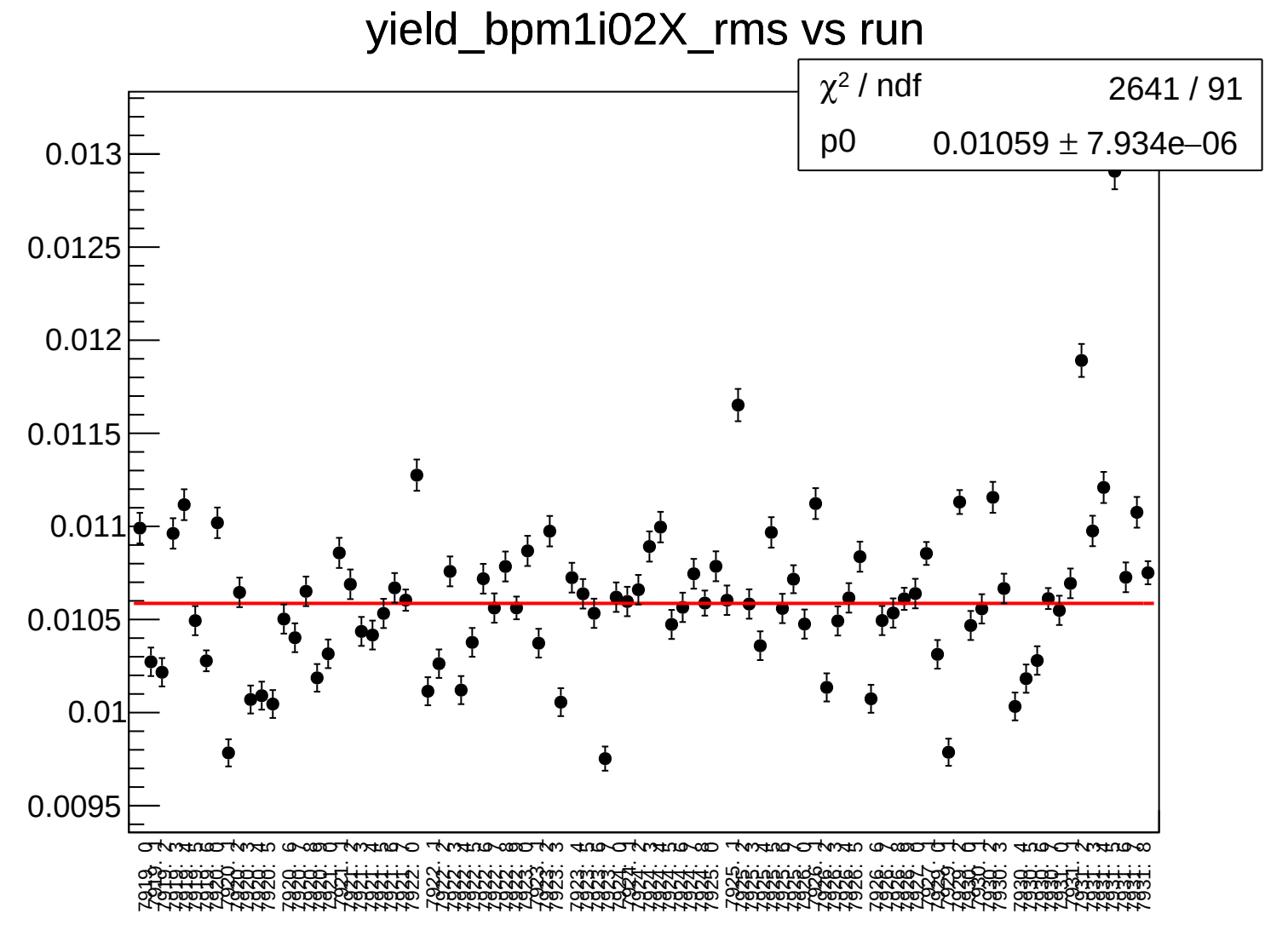

yield_bpm0i07Y_mean vs run
χ² / ndf 1.552e+06 / 91
p0 0.2696 ± 4.939e−06
pull
Entries 92
Mean −379.1
Std Dev 0

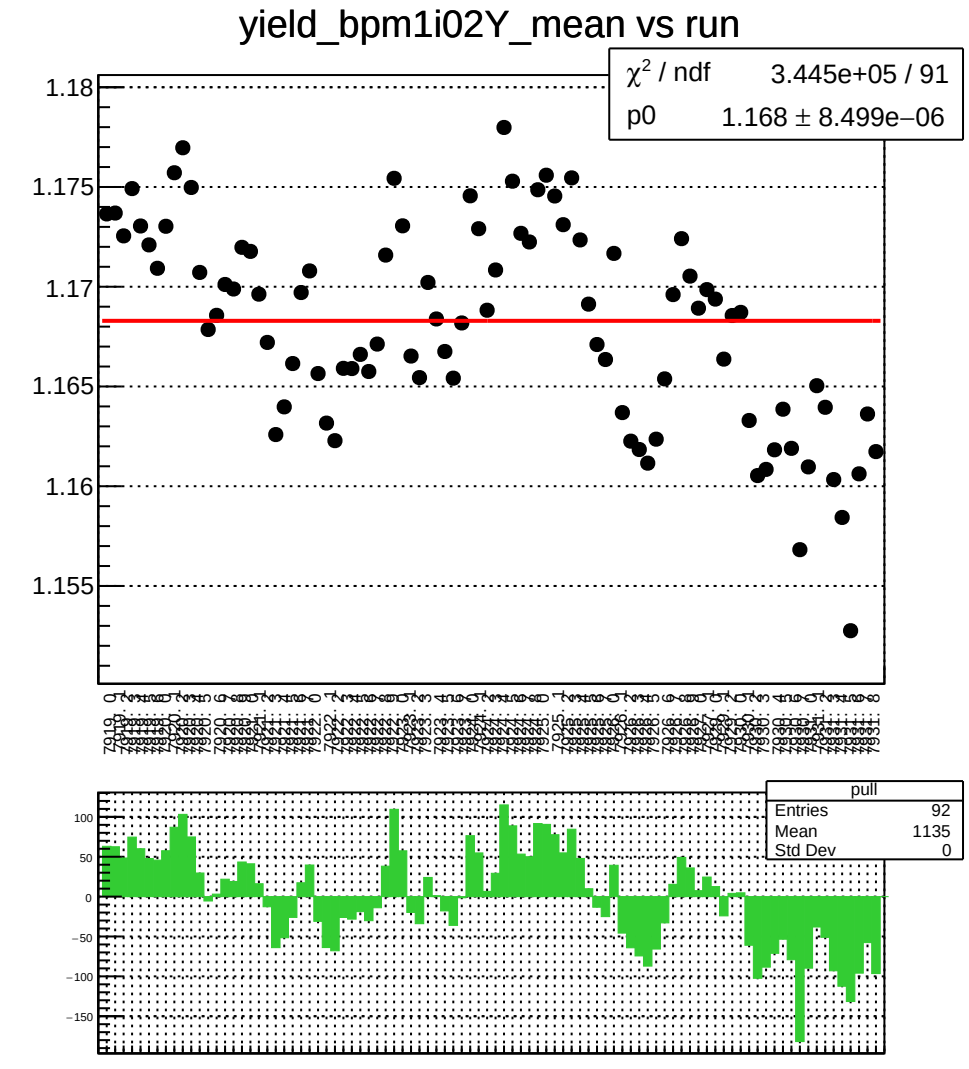

pull1D
Entries 92
Mean 0.4843
Std Dev 3.814

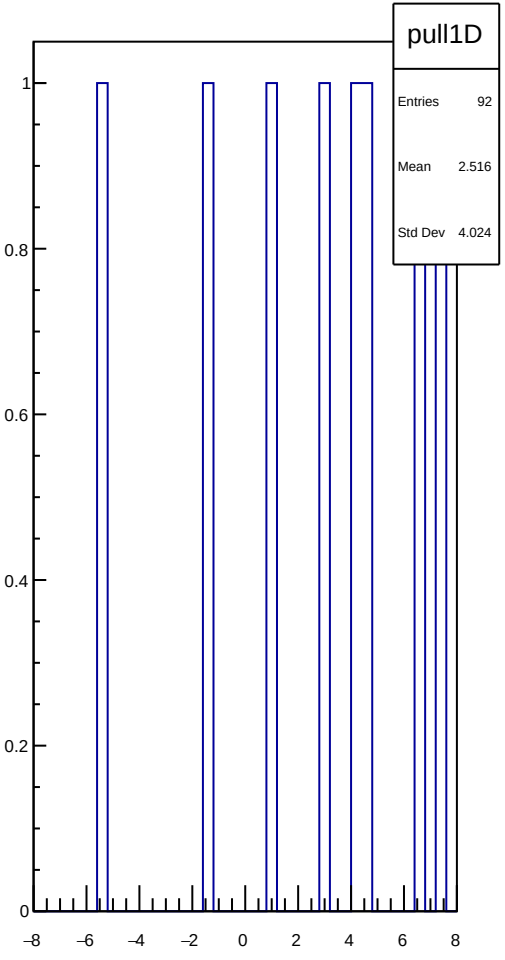

yield_bpm0i07Y_rms vs run
χ^2 / ndf 3.36e+04 / 91
p0 0.004619 ± 3.492e−06
0.008
0.0075
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004


yield_bpm1i02X_mean vs run
χ² / ndf 1.432e+05 / 91
p0 0.05138 ± 1.122e−05
0.062
0.06
0.058
0.056
0.054
0.052
0.05
0.048
0.046
0.044
0.042
pull
Entries 92
Mean −334.7
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100

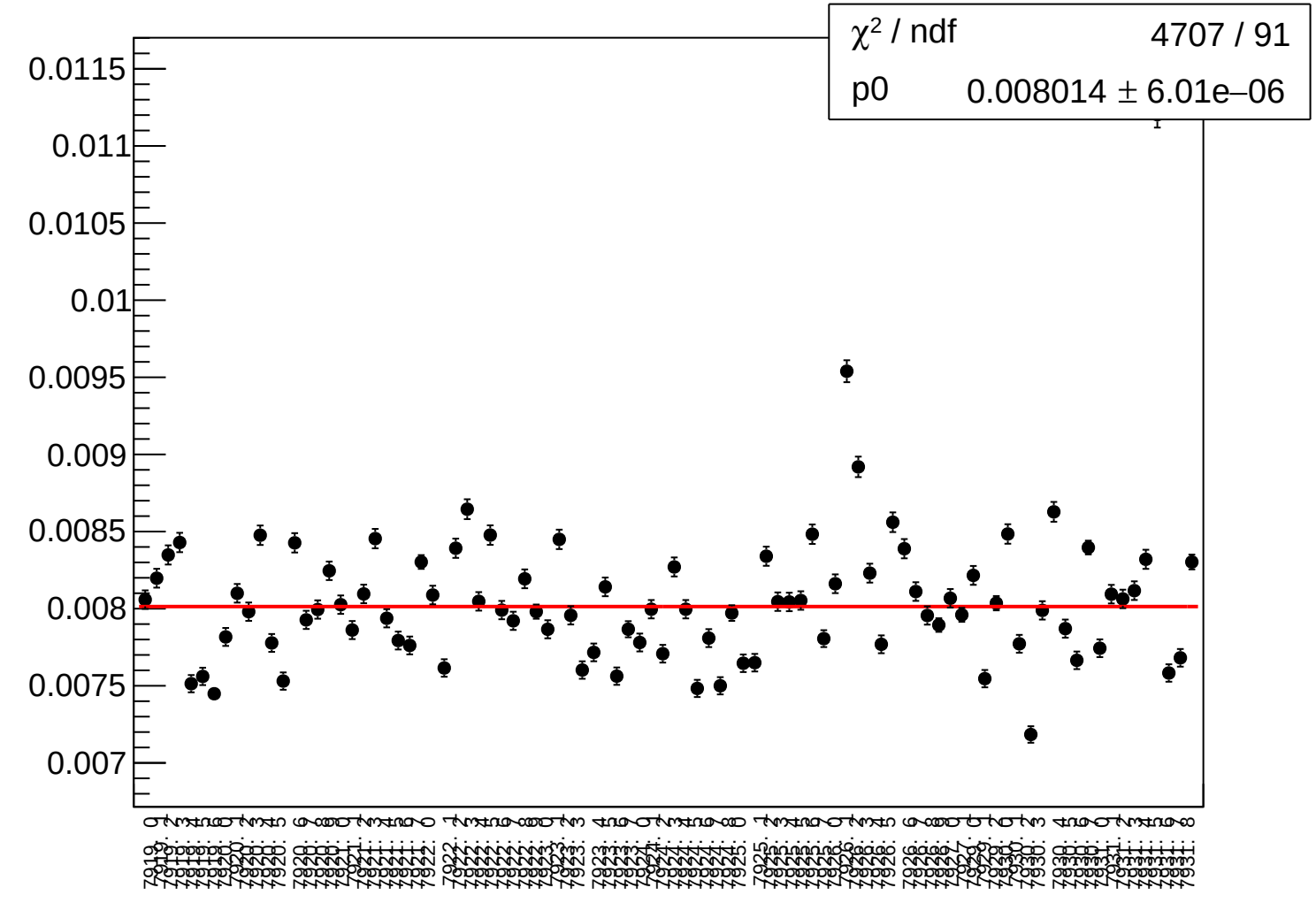

pull1D
Entries 92
Mean −0.04629
Std Dev 3.6
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

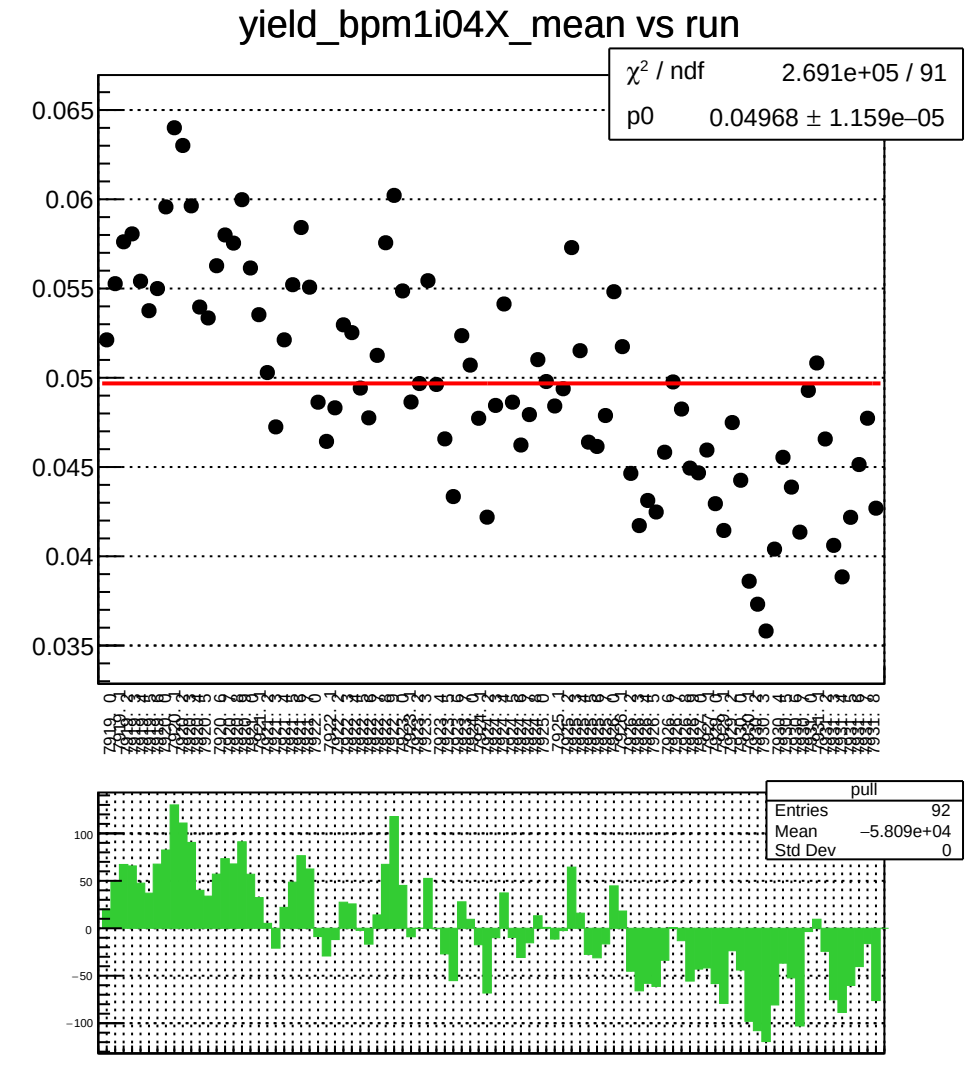

yield_bpm1i02X_rms vs run
χ² / ndf 2641 / 91
p0 0.01059 ± 7.934e−06
0.013
0.0125
0.012
0.0115
0.011
0.0105
0.01
0.0095

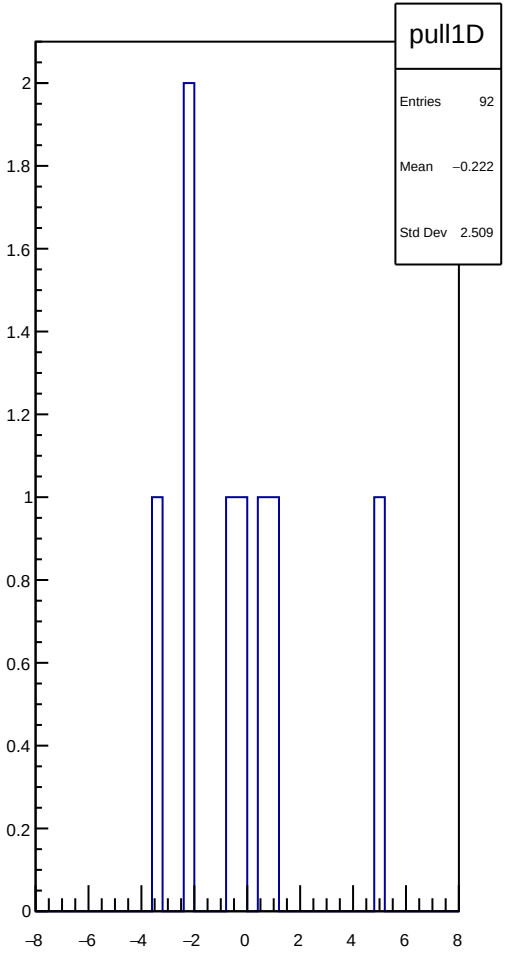

yield_bpm1i02Y_mean vs run
χ² / ndf 3.445e+05 / 91
p0 1.168 ± 8.499e−06
1.18
1.175
1.17
1.165
1.16
1.155
pull
Entries 92
Mean 1135
Std Dev 0
100
50
0
−50
−100
−150

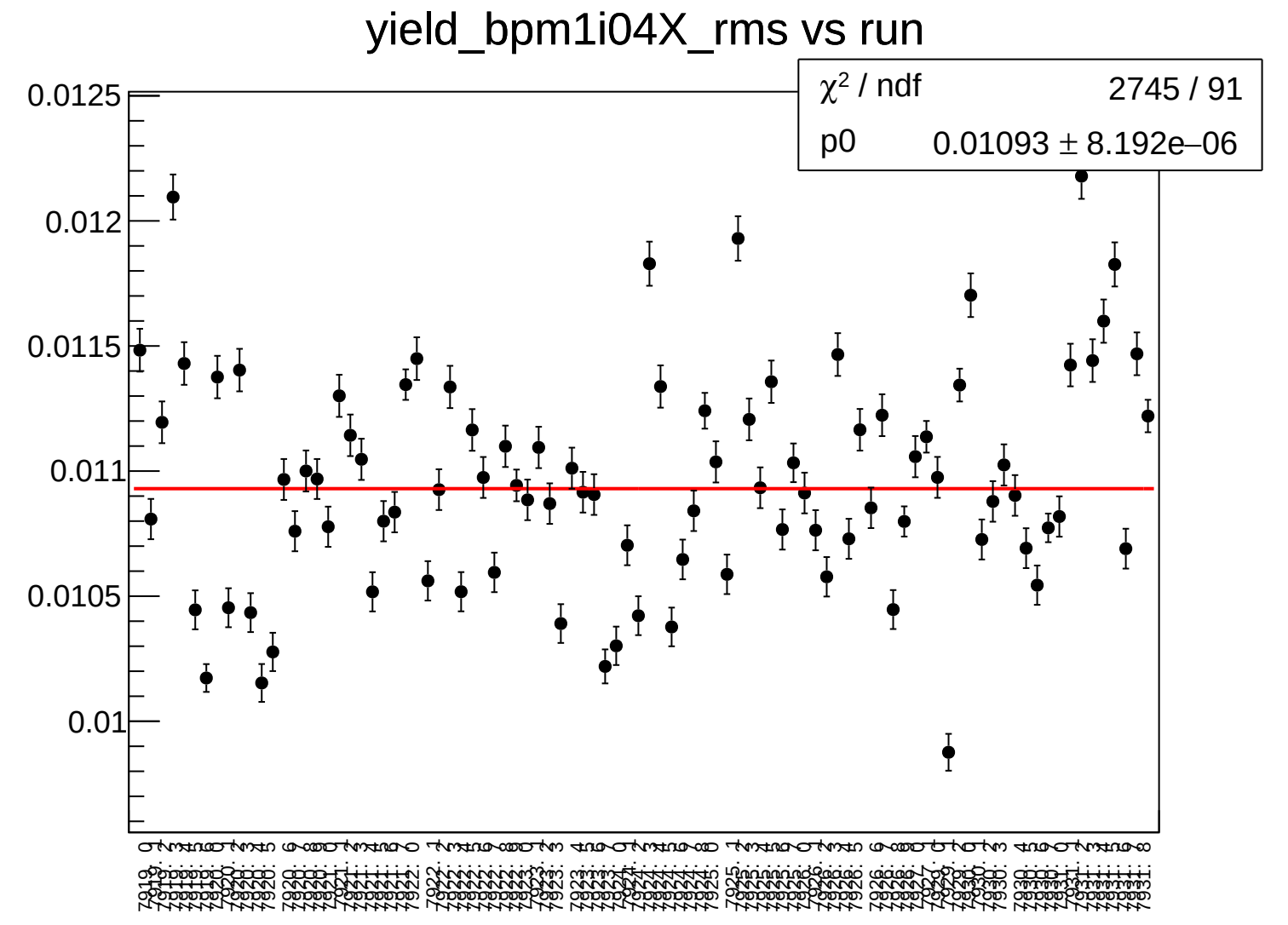

pull1D
Entries 92
Mean 2.516
Std Dev 4.024
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

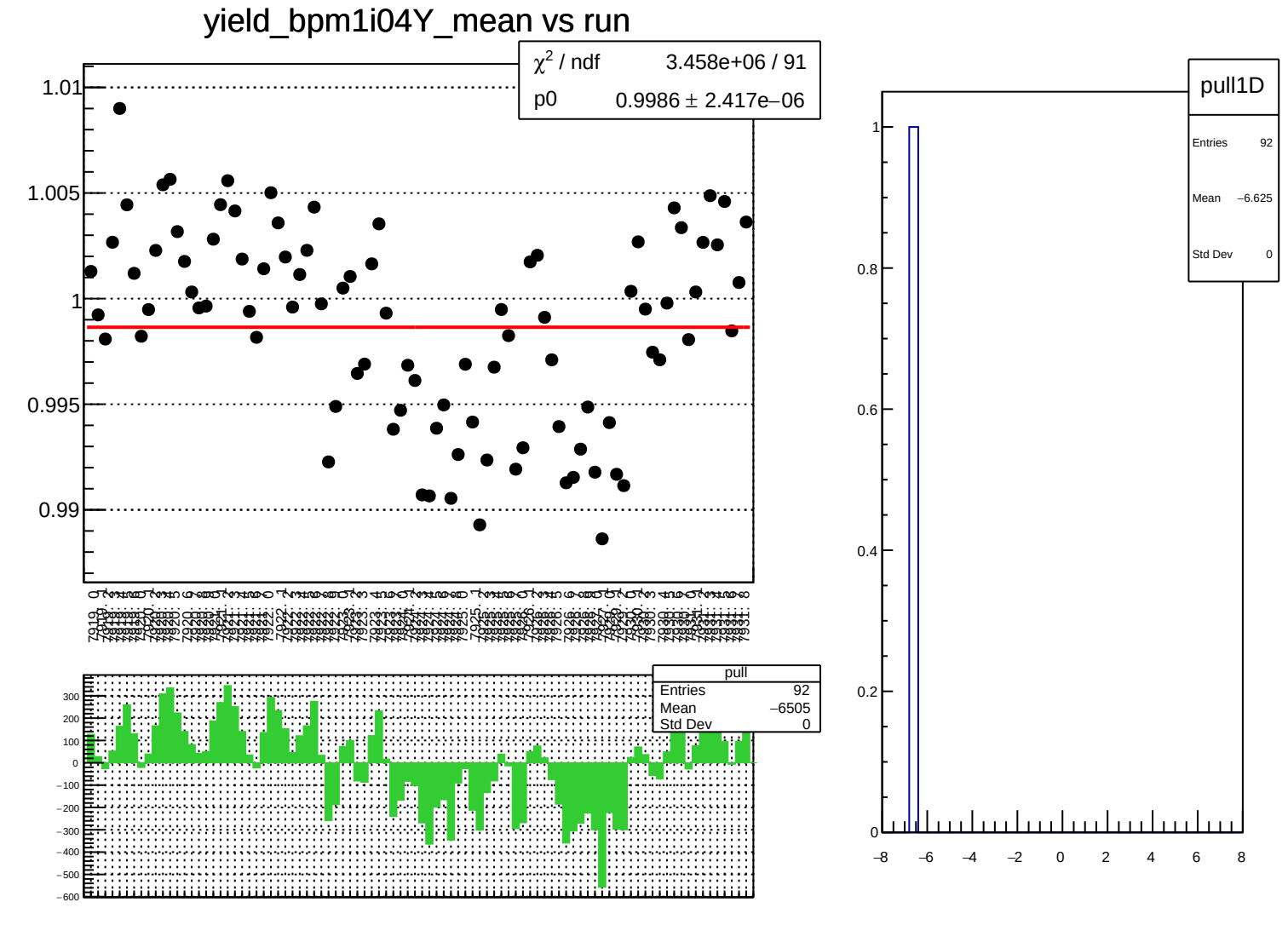
yield_bpm1i02Y_rms vs run

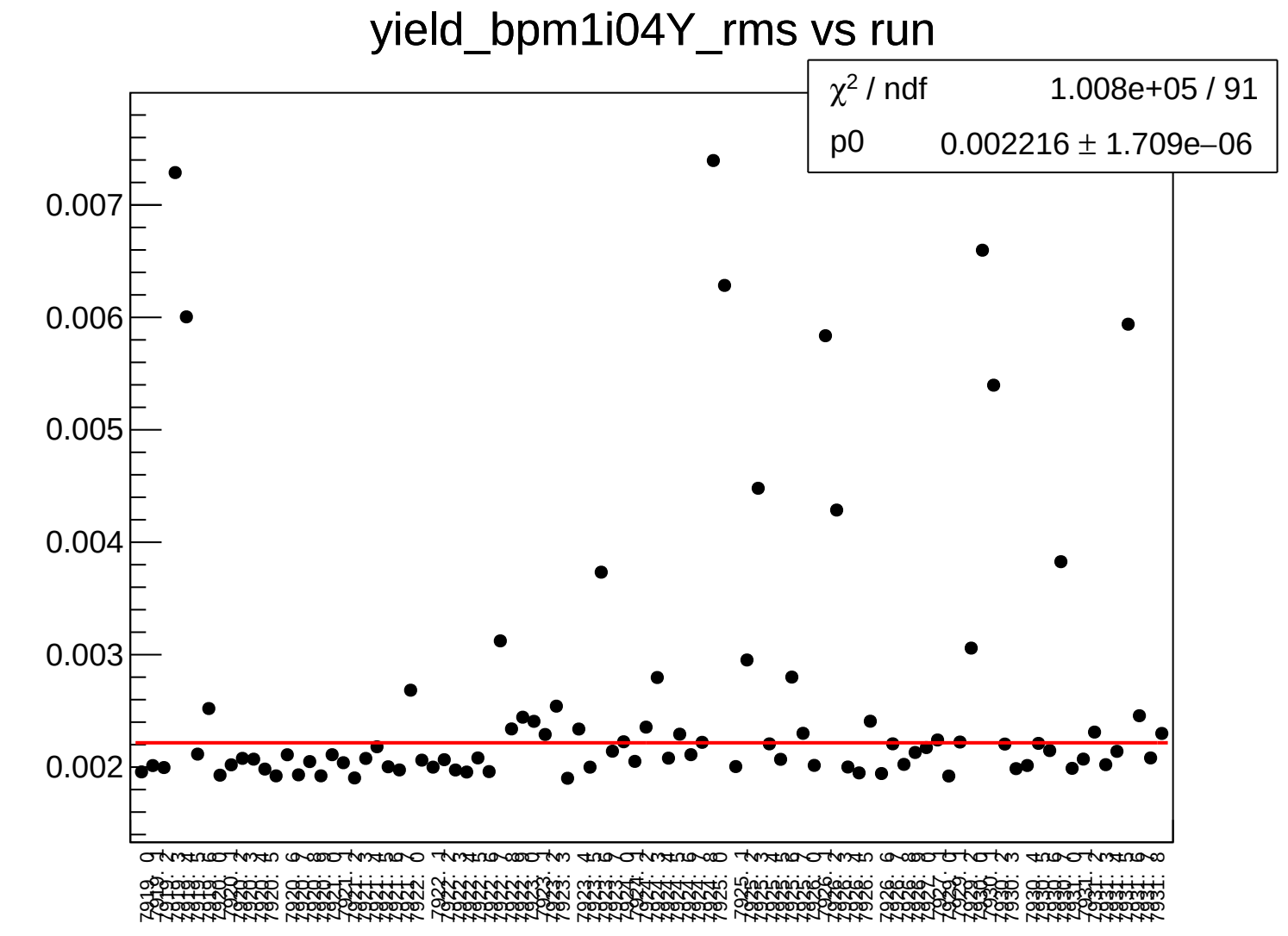


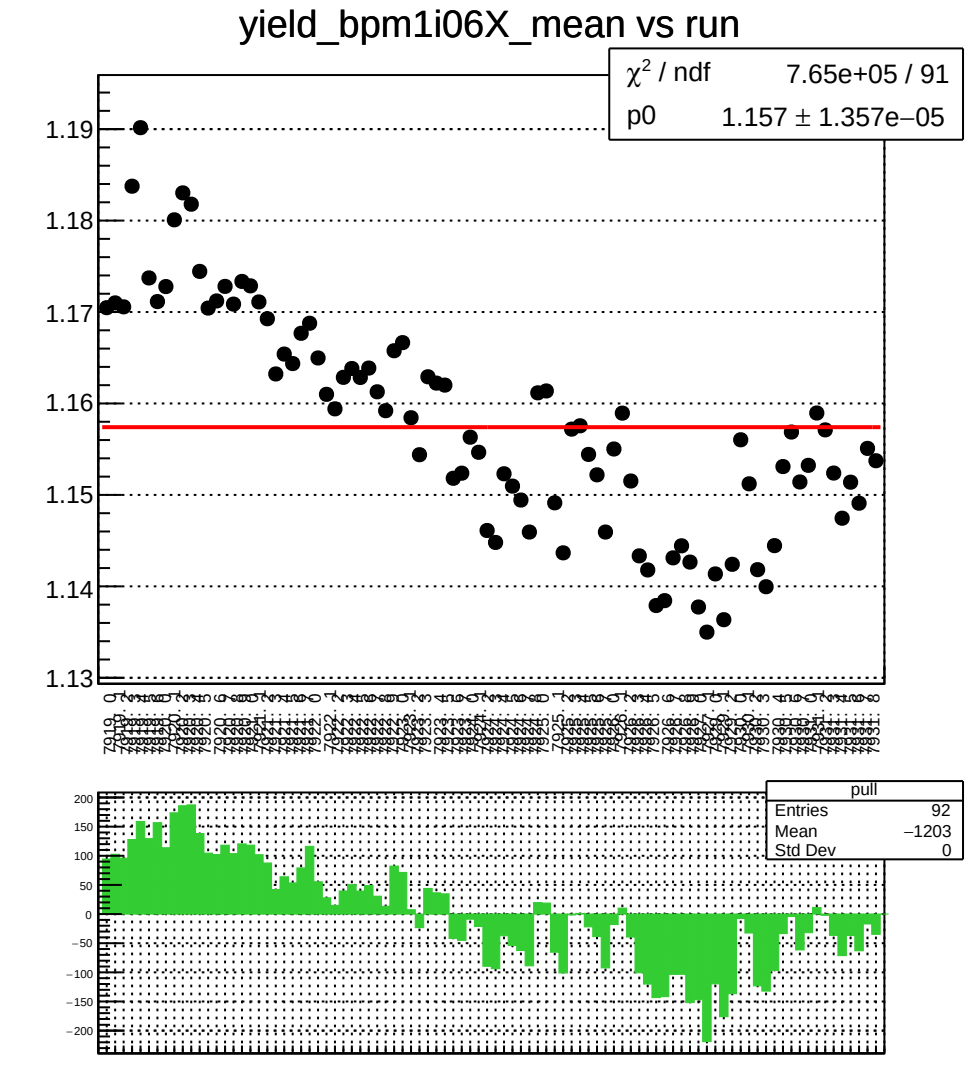

yield_bpm1i04X_mean vs run
χ² / ndf 2.691e+05 / 91
p0 0.04968 ± 1.159e−05
0.065
0.06
0.055
0.05
0.045
0.04
0.035
pull
Entries 92
Mean −5.809e+04
Std Dev 0
100
50
0
−50
−100

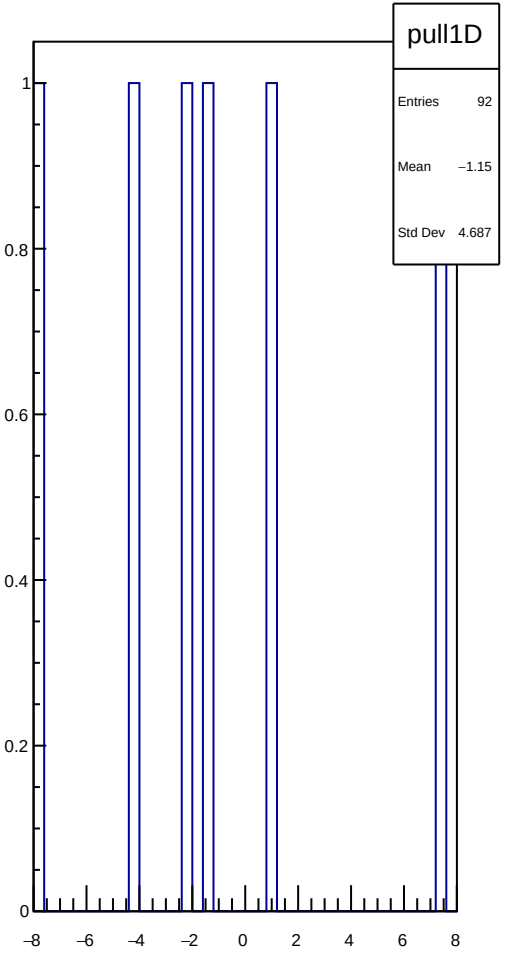

pull1D
Entries 92
Mean −0.222
Std Dev 2.509
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

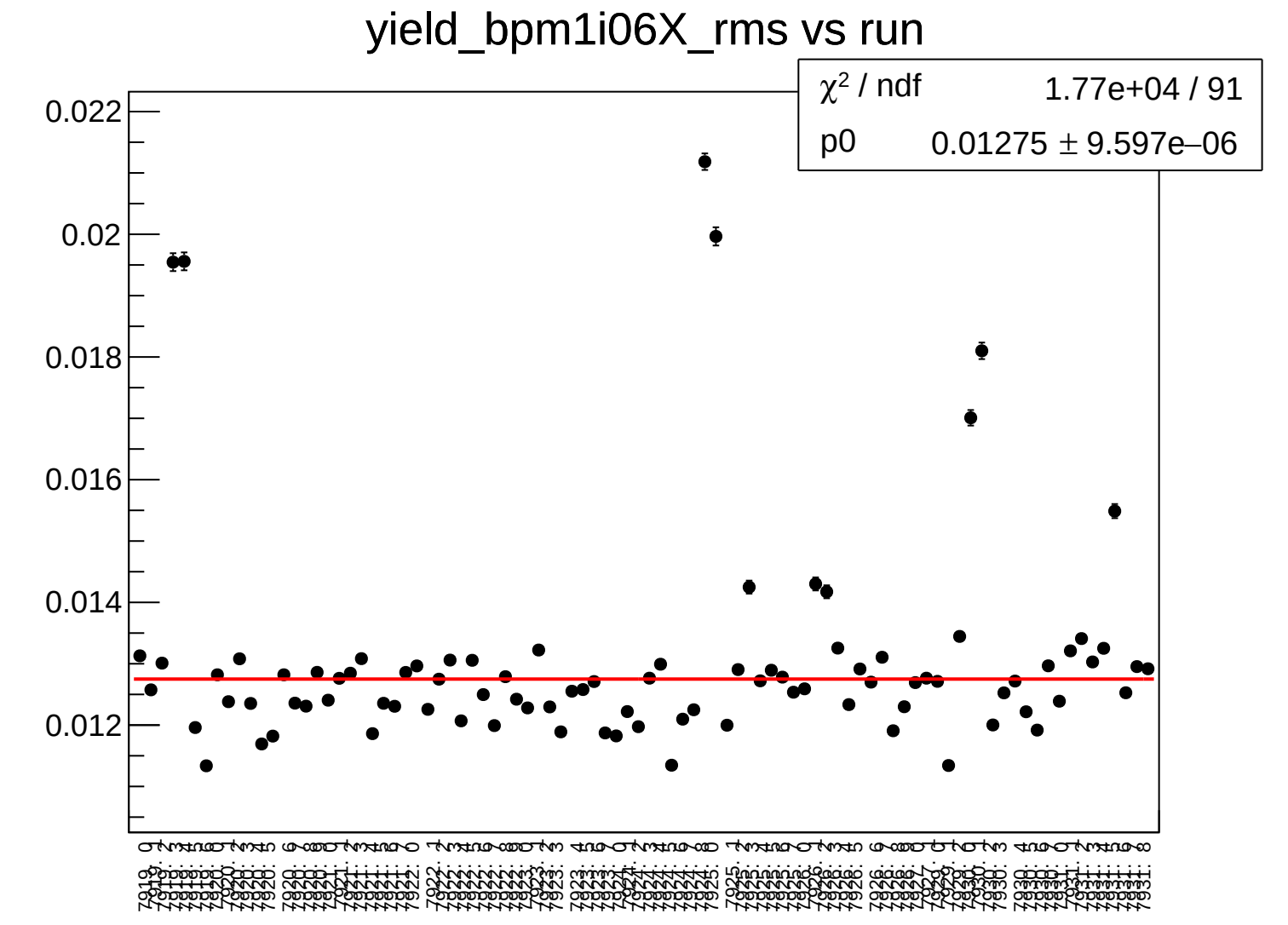

yield_bpm1i04X_rms vs run
χ² / ndf 2745 / 91
p0 0.01093 ± 8.192e–06
0.0125
0.012
0.0115
0.011
0.0105
0.01

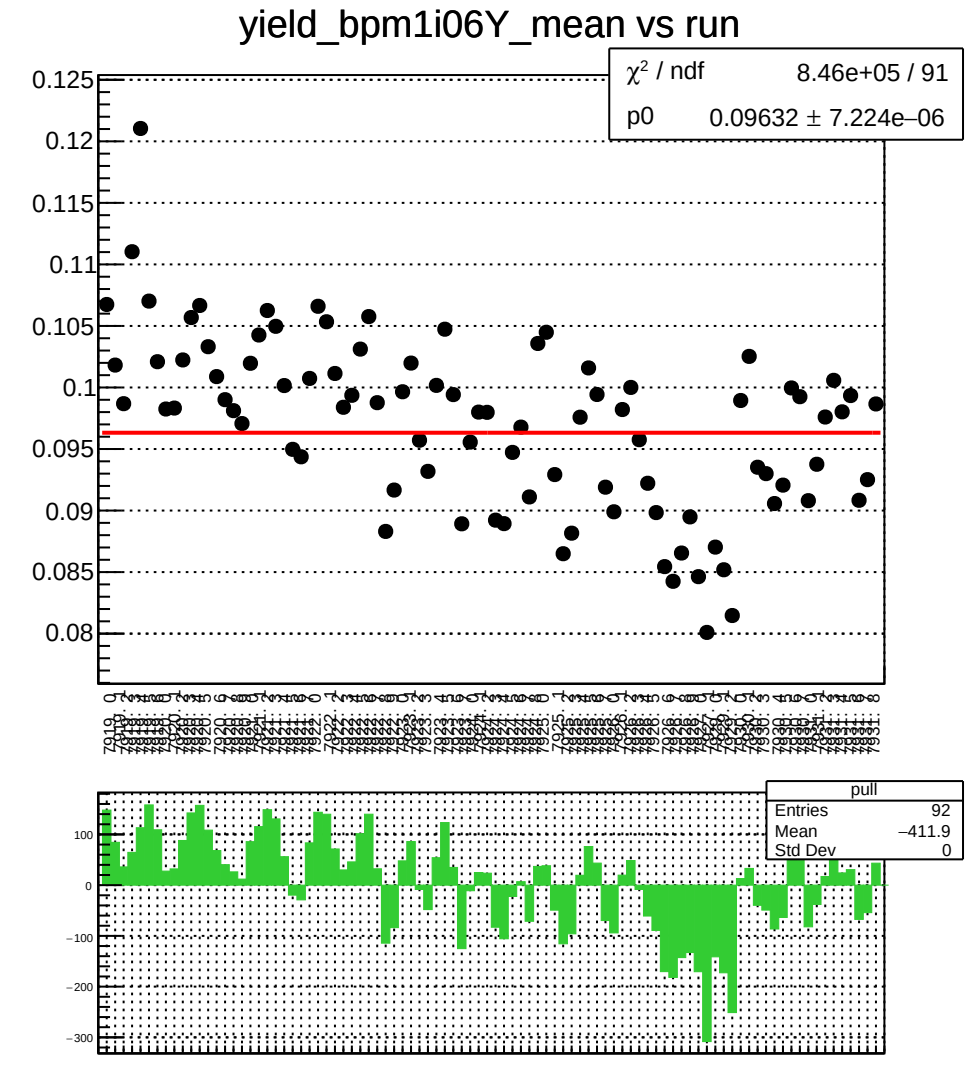

yield_bpm1i04Y_mean vs run
χ² / ndf 3.458e+06 / 91
p0 0.9986 ± 2.417e−06
1.01
1.005
1
0.995
0.99
pull
Entries 92
Mean −6505
Std Dev 0
300
200
100
0
−100
−200
−300
−400
−500
−600
pull1D
Entries 92
Mean −6.625
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

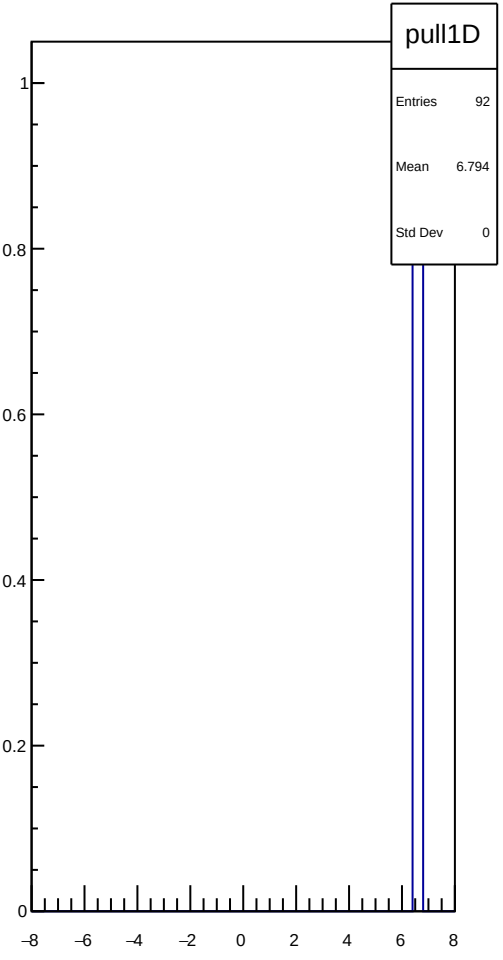

yield_bpm1i04Y_rms vs run
χ^2 / ndf 1.008e+05 / 91
p0 0.002216 ± 1.709e−06
0.007
0.006
0.005
0.004
0.003
0.002

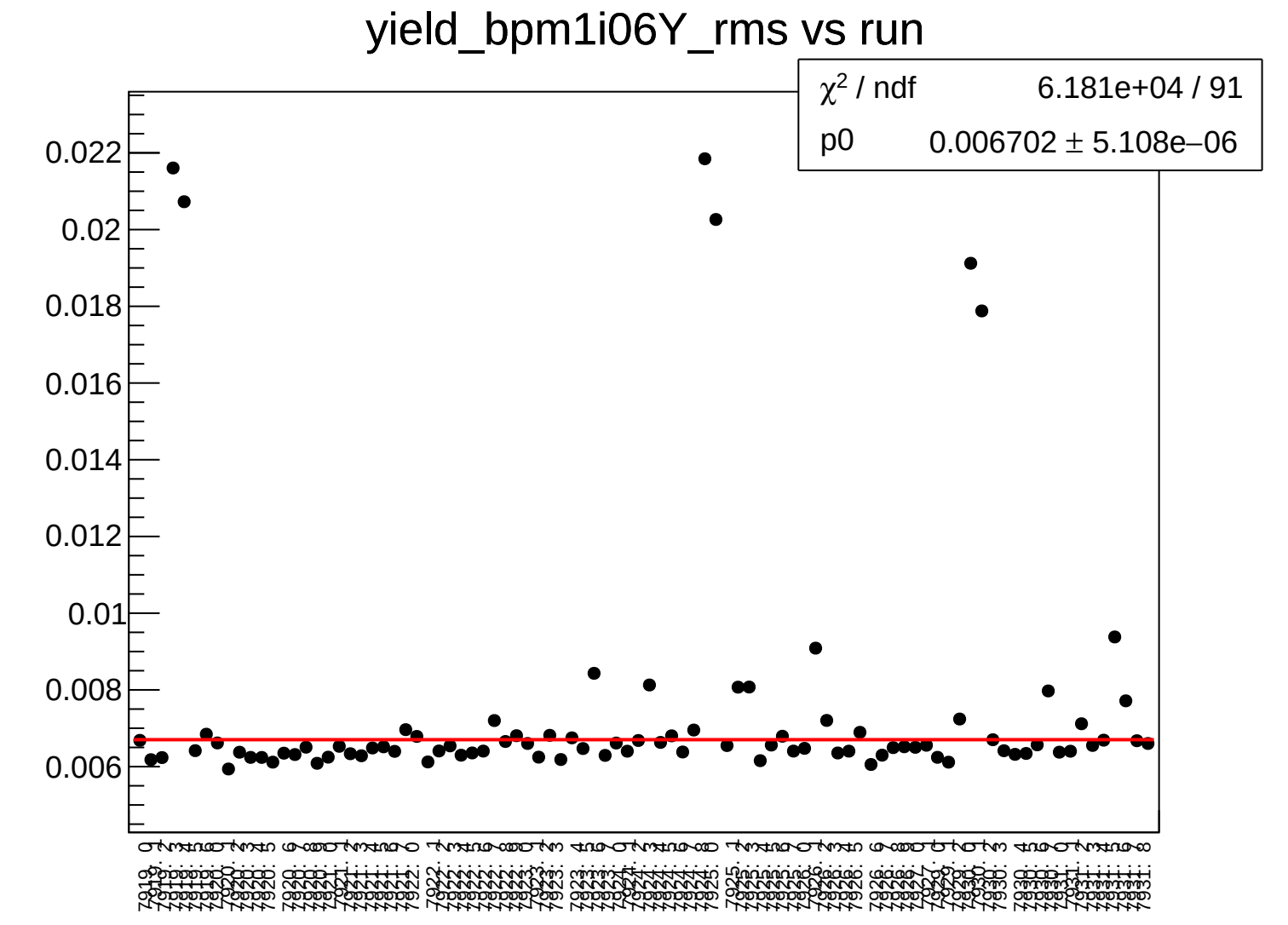

yield_bpm1i06X_mean vs run
χ² / ndf 7.65e+05 / 91
p0 1.157 ± 1.357e−05
1.19
1.18
1.17
1.16
1.15
1.14
1.13
pull
Entries 92
Mean −1203
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200

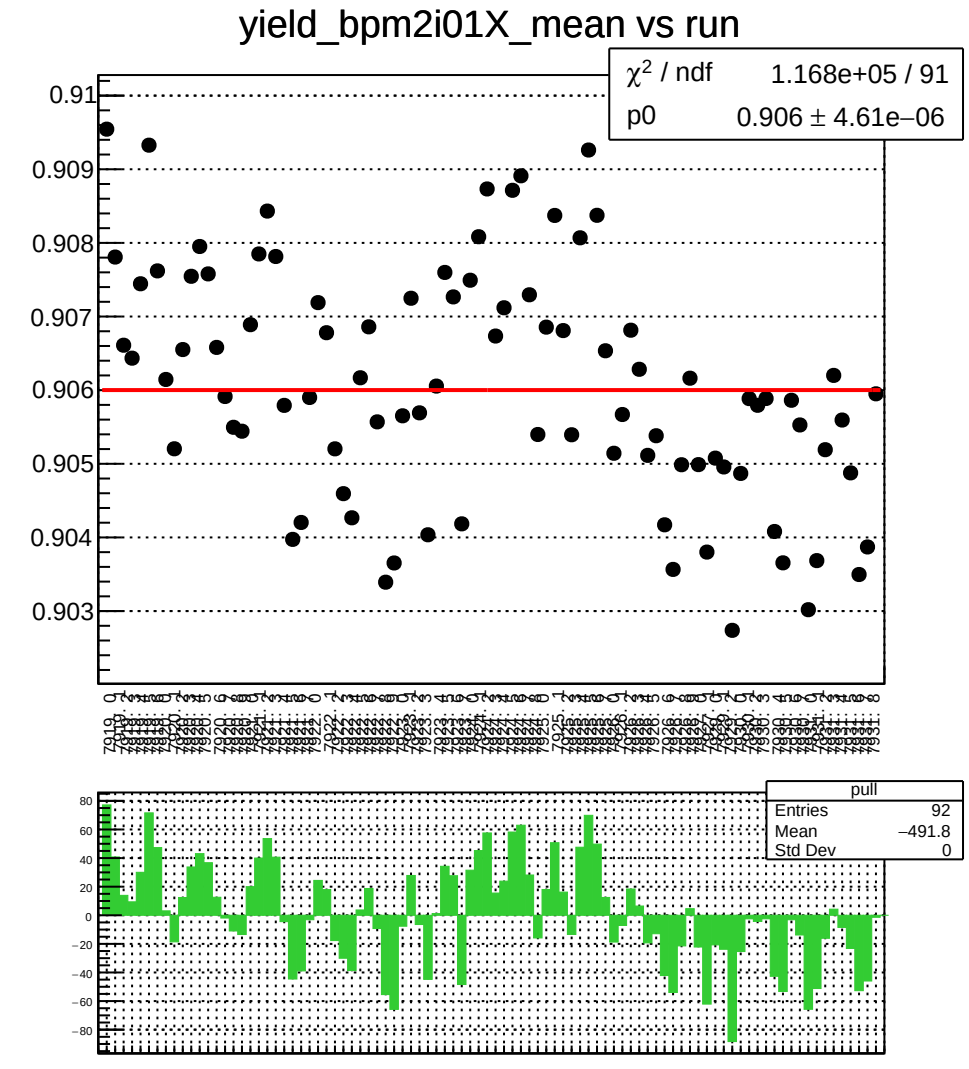

pull1D
Entries 92
Mean −1.15
Std Dev 4.687
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

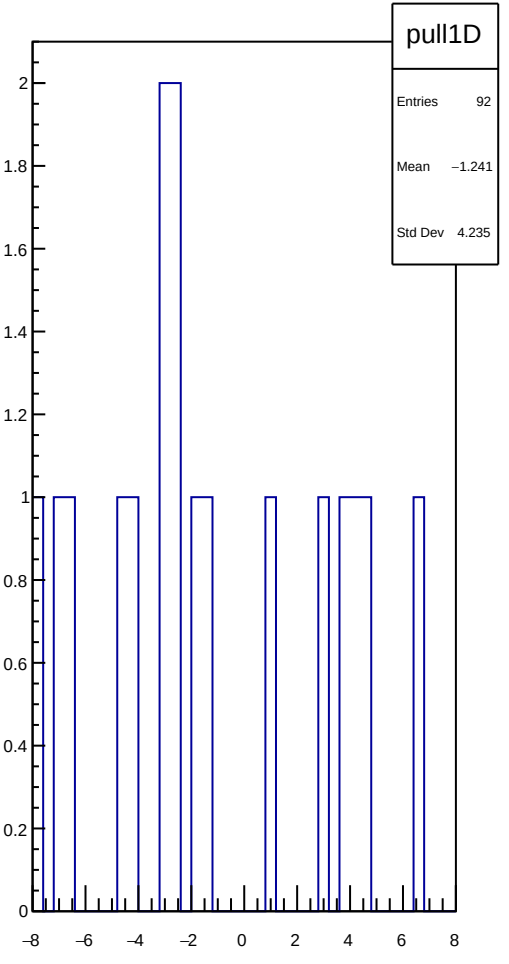

yield_bpm1i06X_rms vs run
χ² / ndf 1.77e+04 / 91
p0 0.01275 ± 9.597e–06
0.022
0.02
0.018
0.016
0.014
0.012

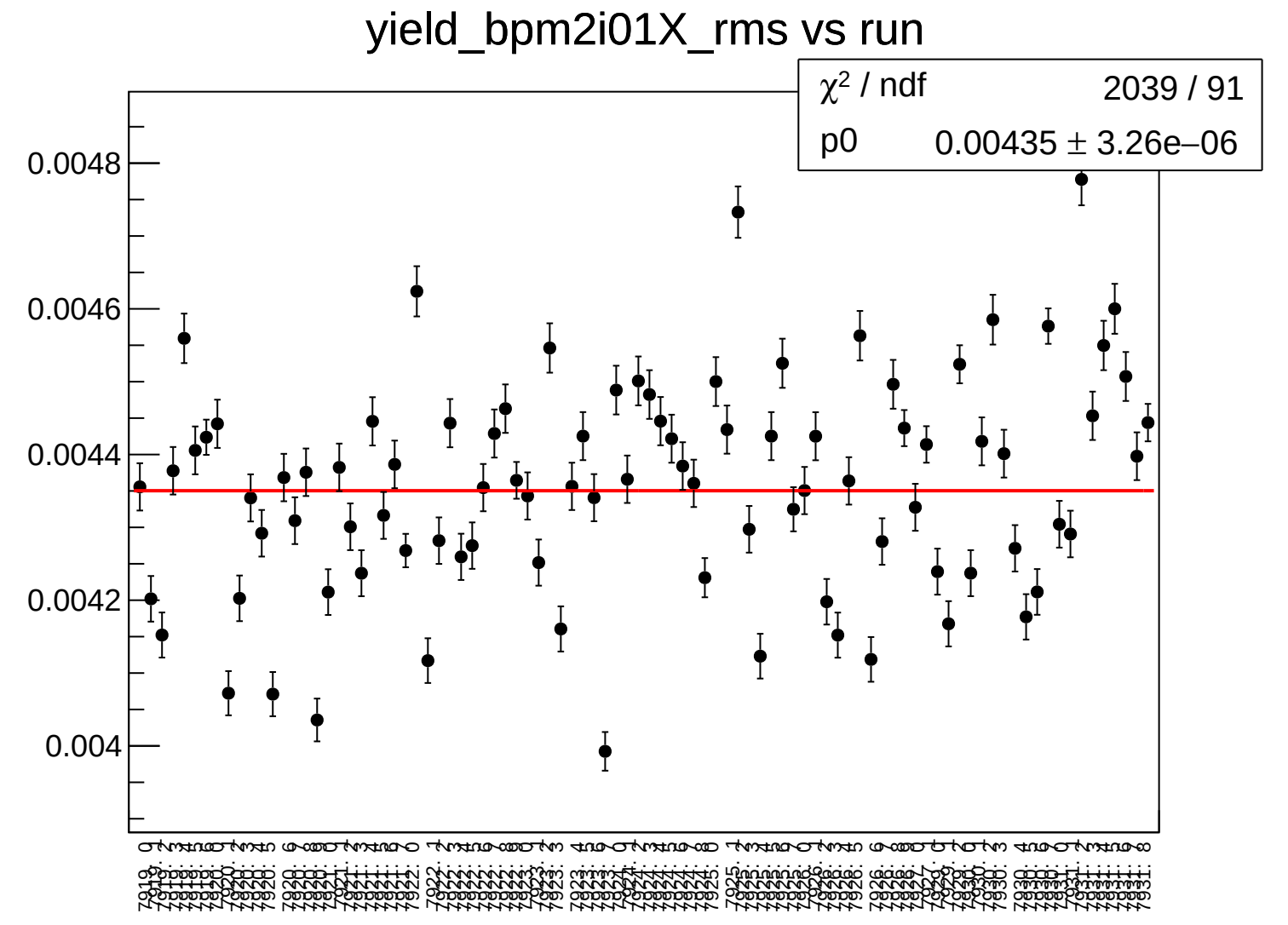

yield_bpm1i06Y_mean vs run
χ² / ndf 8.46e+05 / 91
p0 0.09632 ± 7.224e−06
pull
Entries 92
Mean −411.9
Std Dev 0

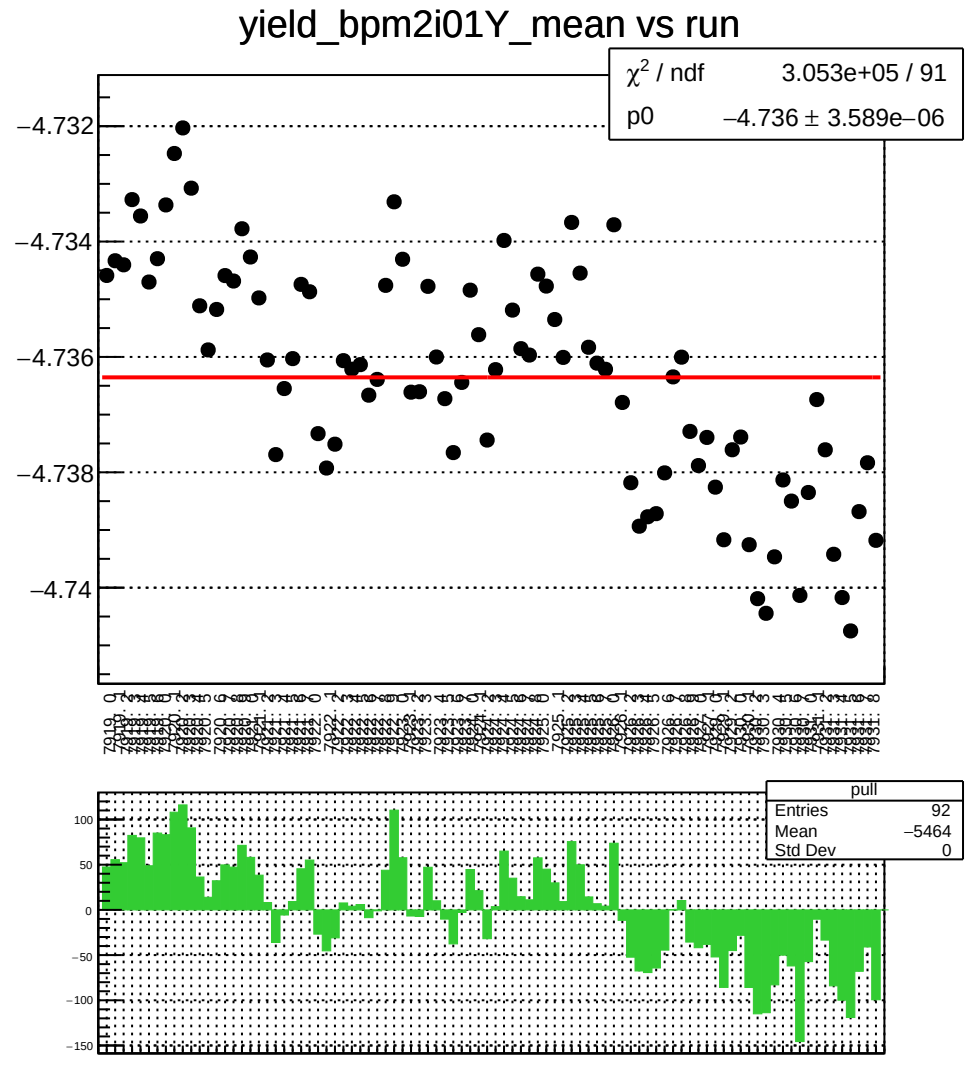

pull1D
Entries 92
Mean 6.794
Std Dev 0

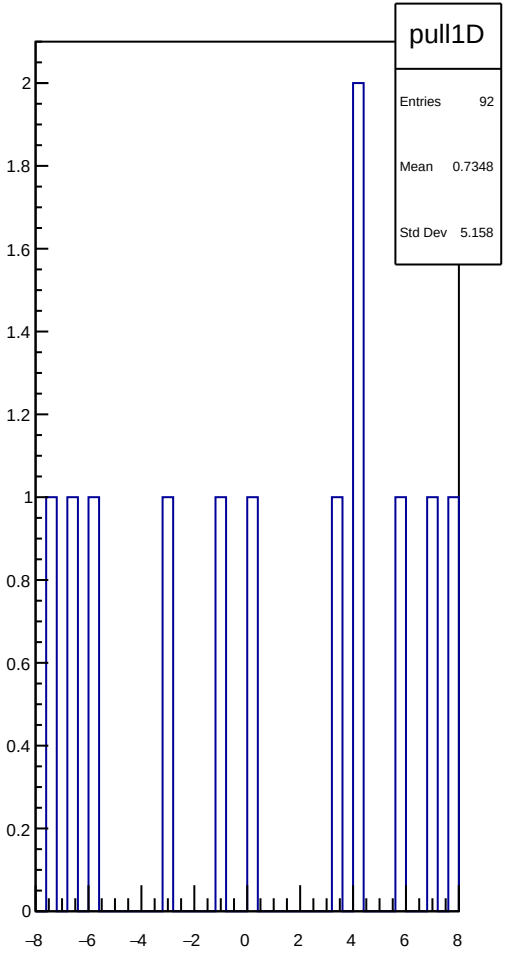

yield_bpm1i06Y_rms vs run
χ² / ndf 6.181e+04 / 91
p0 0.006702 ± 5.108e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

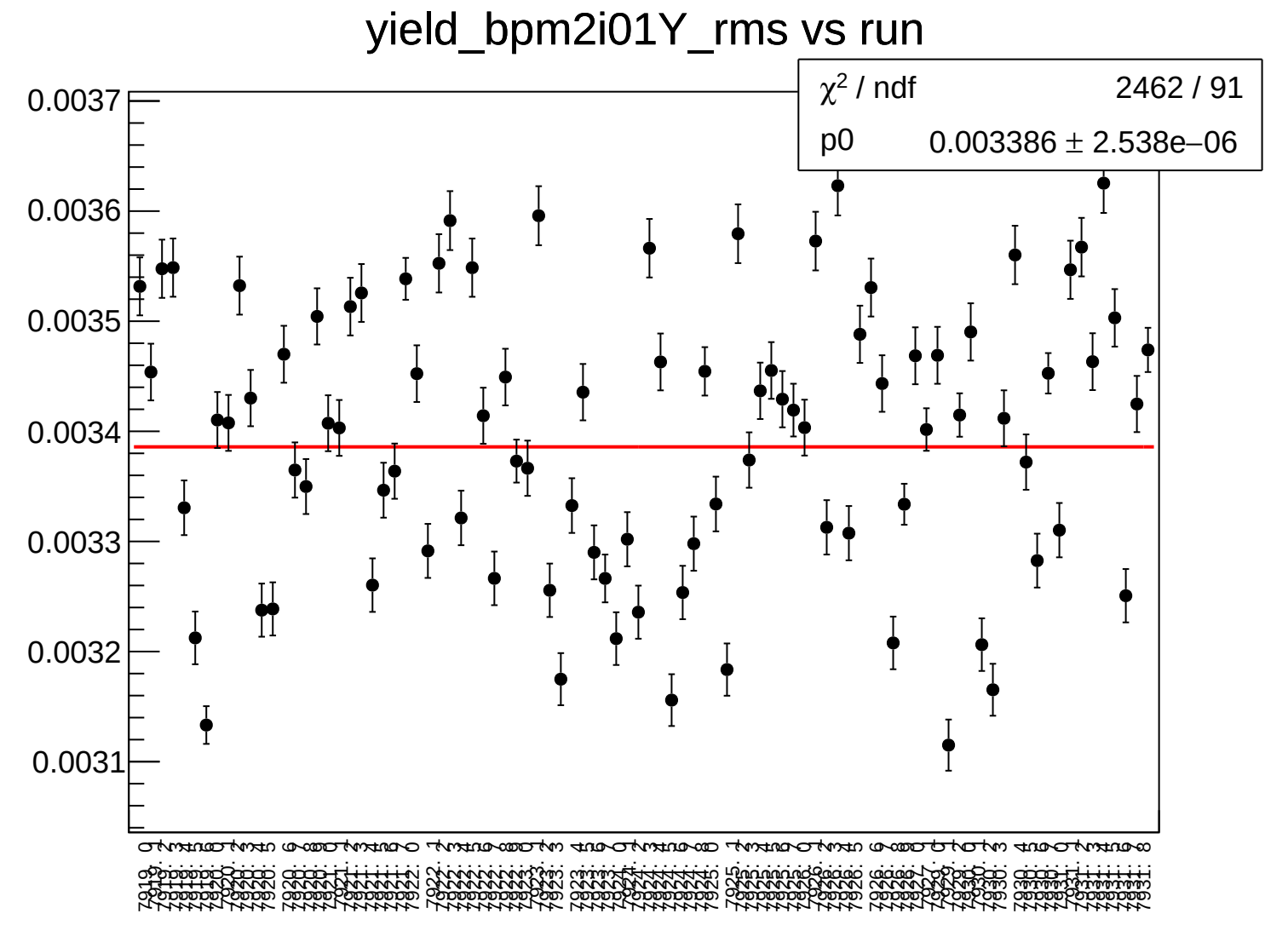

yield_bpm2i01X_mean vs run
χ² / ndf 1.168e+05 / 91
p0 0.906 ± 4.61e−06
0.91
0.909
0.908
0.907
0.906
0.905
0.904
0.903
pull
Entries 92
Mean −491.8
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80

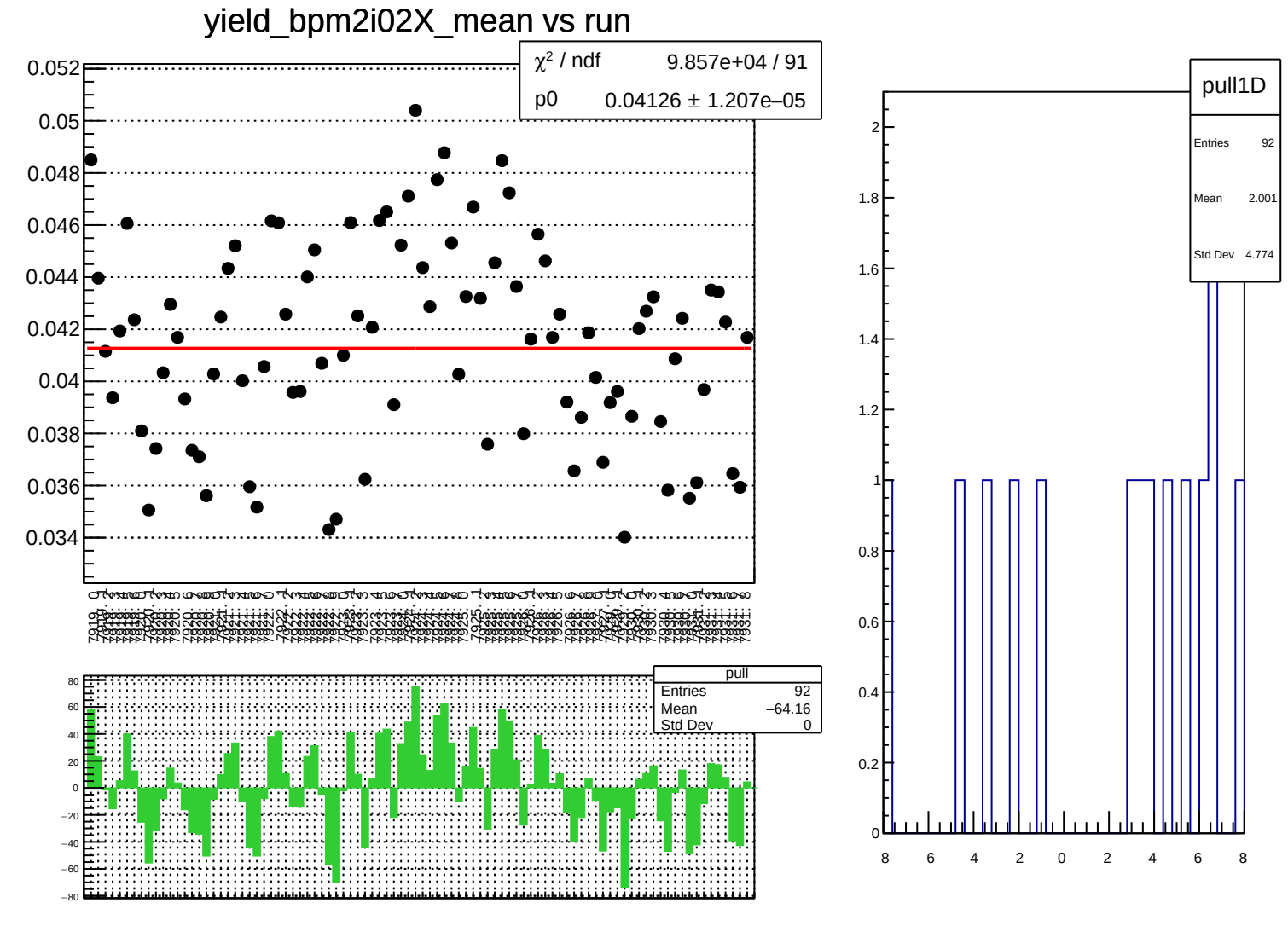

pull1D
Entries 92
Mean −1.241
Std Dev 4.235
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

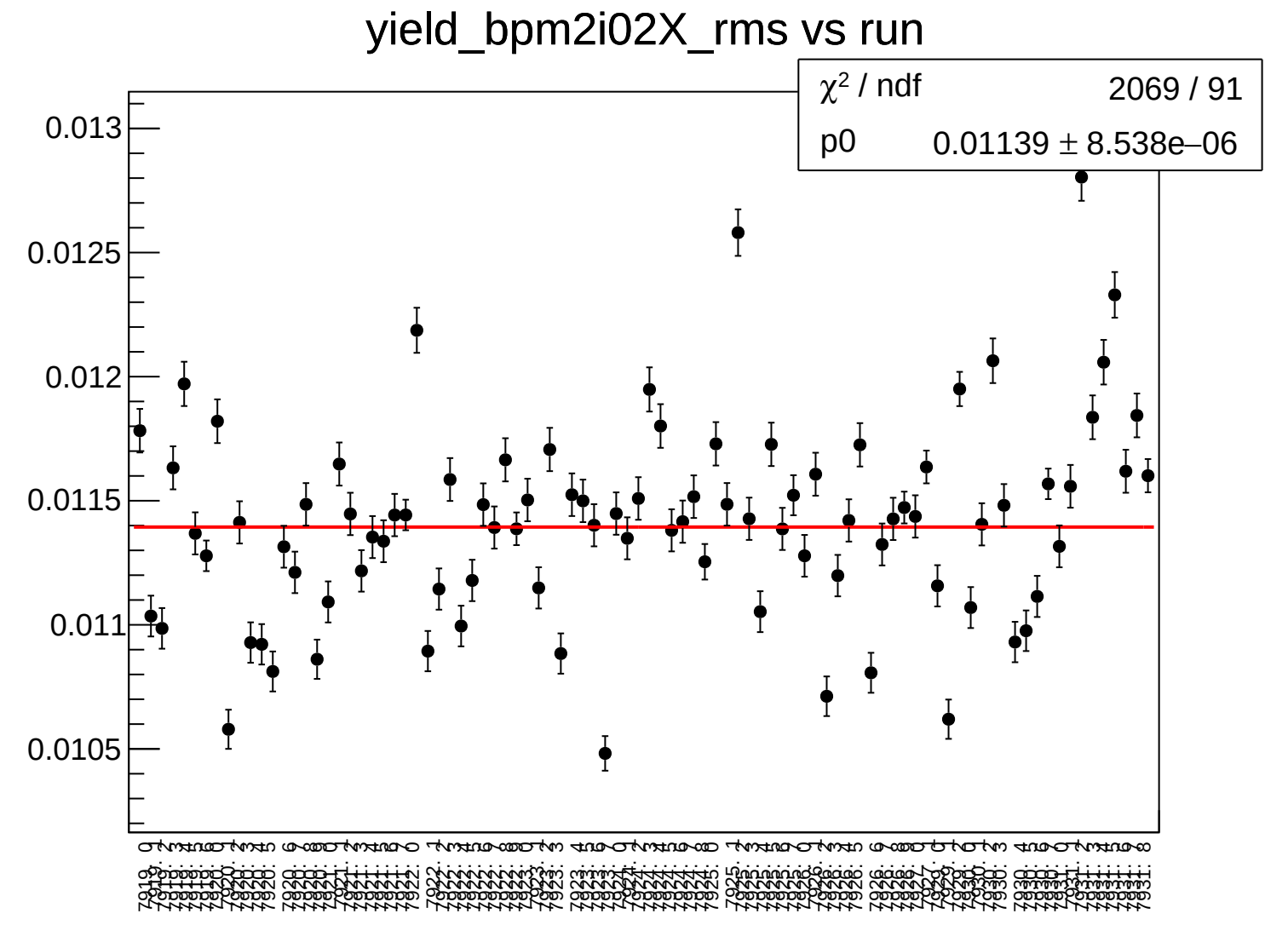

yield_bpm2i01X_rms vs run
χ² / ndf 2039 / 91
p0 0.00435 ± 3.26e−06
0.0048
0.0046
0.0044
0.0042
0.004

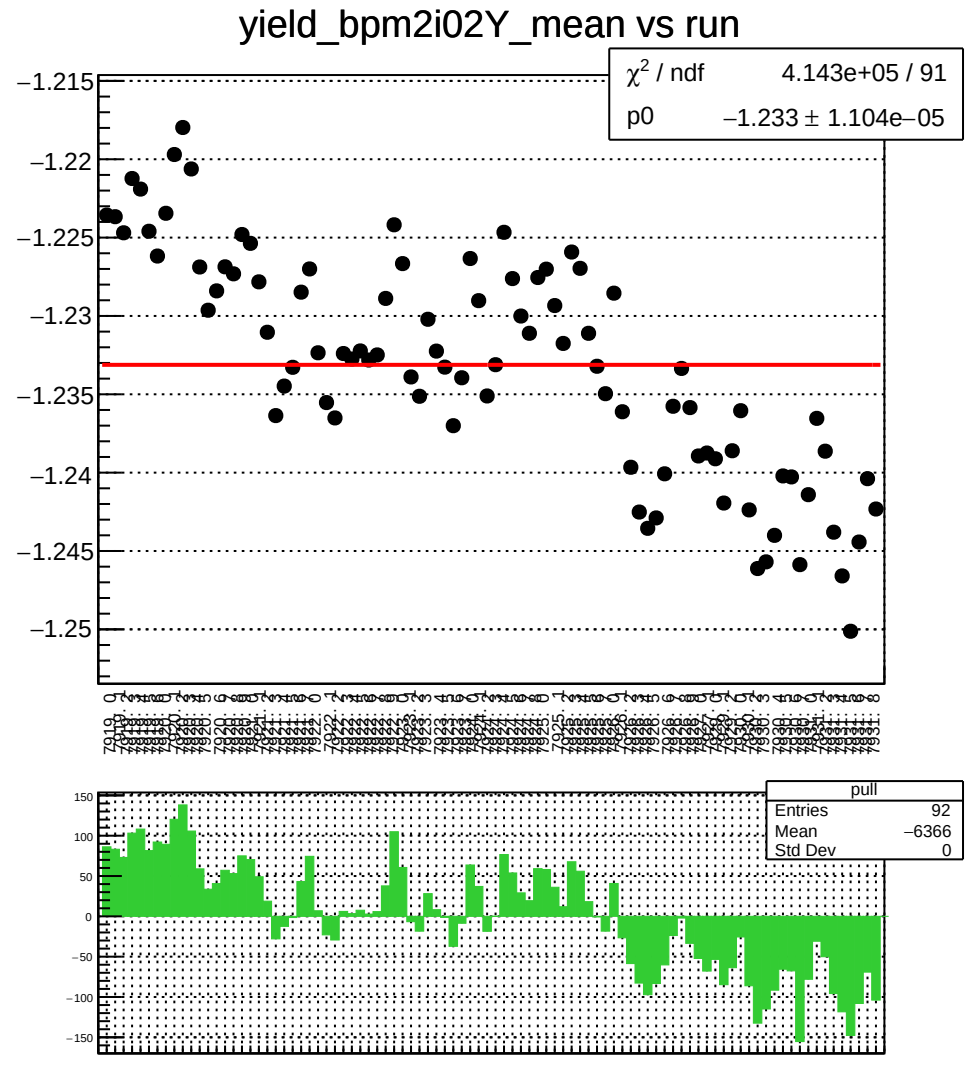

yield_bpm2i01Y_mean vs run
χ² / ndf 3.053e+05 / 91
p0 −4.736 ± 3.589e−06
−4.732
−4.734
−4.736
−4.738
−4.74
pull
Entries 92
Mean −5464
Std Dev 0
100
50
0
−50
−100
−150

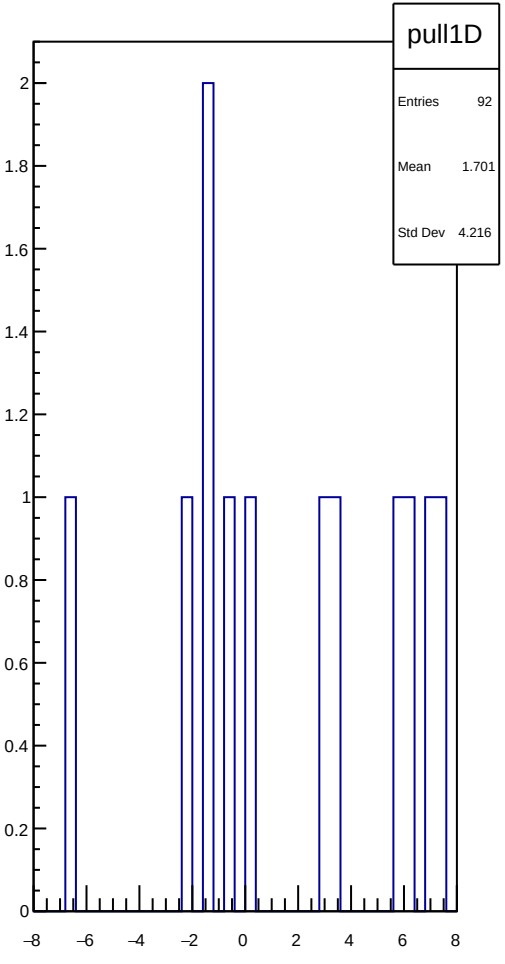

pull1D
Entries 92
Mean 0.7348
Std Dev 5.158
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

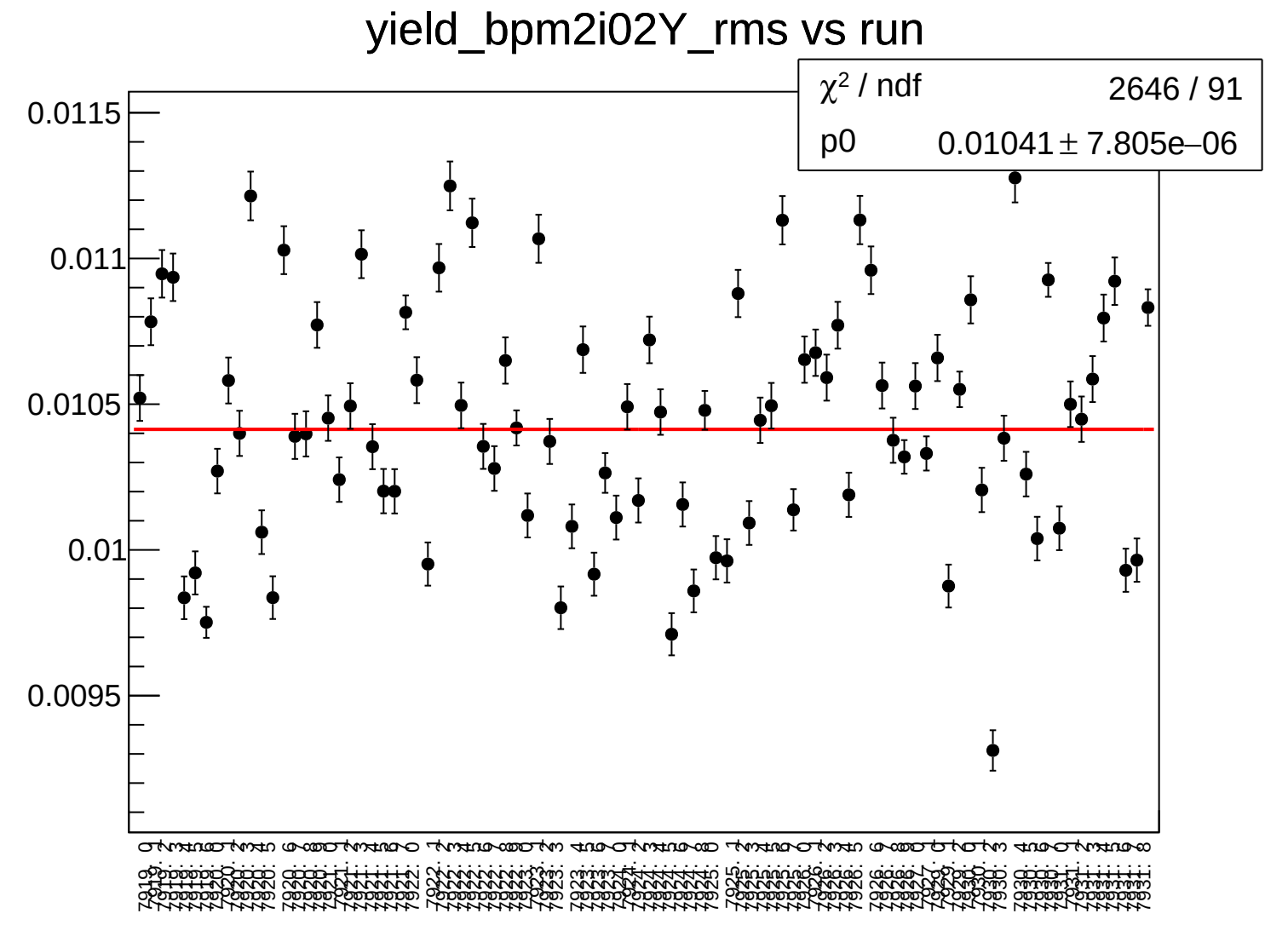

yield_bpm2i01Y_rms vs run
χ² / ndf 2462 / 91
p0 0.003386 ± 2.538e−06
0.0037
0.0036
0.0035
0.0034
0.0033
0.0032
0.0031

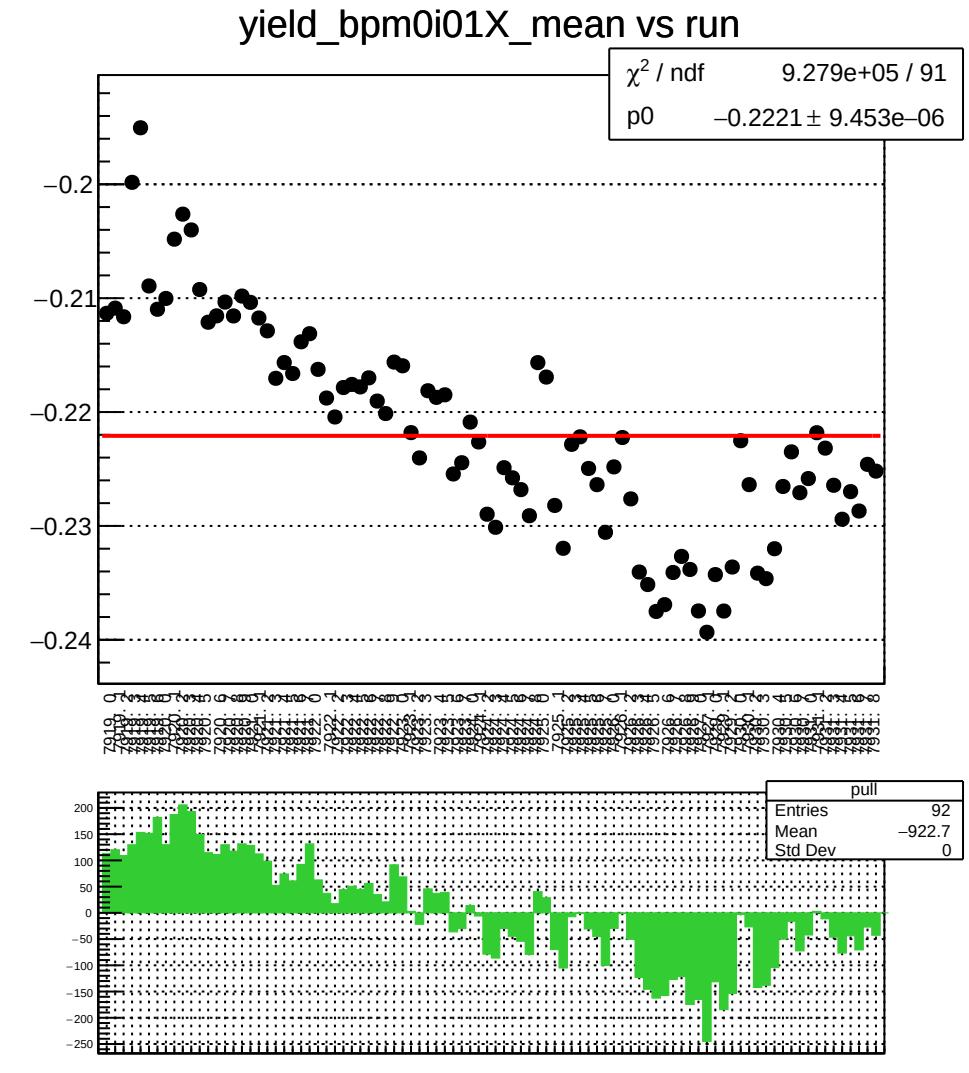

yield_bpm2i02X_mean vs run
χ² / ndf 9.857e+04 / 91
p0 0.04126 ± 1.207e−05
pull
Entries 92
Mean −64.16
Std Dev 0
pull1D
Entries 92
Mean 2.001
Std Dev 4.774

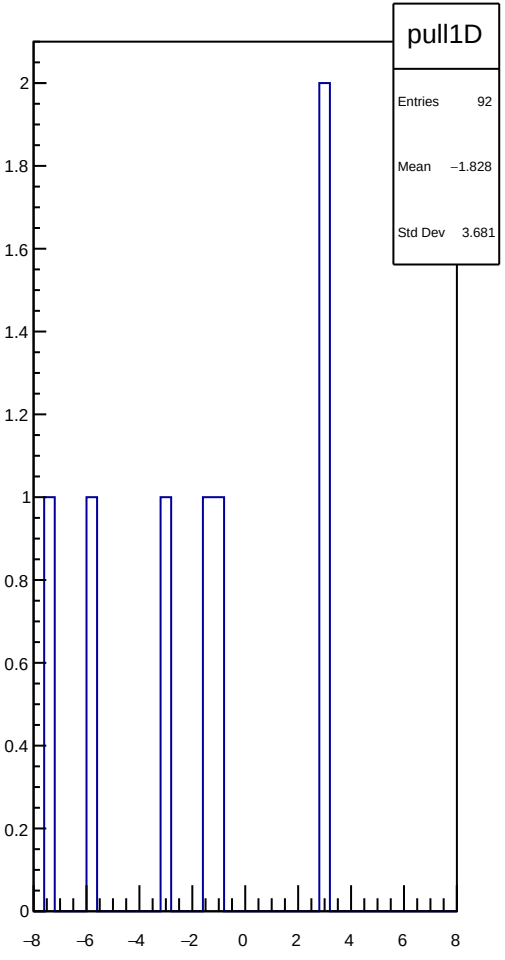

yield_bpm2i02X_rms vs run
χ² / ndf 2069 / 91
p0 0.01139 ± 8.538e–06
0.013
0.0125
0.012
0.0115
0.011
0.0105

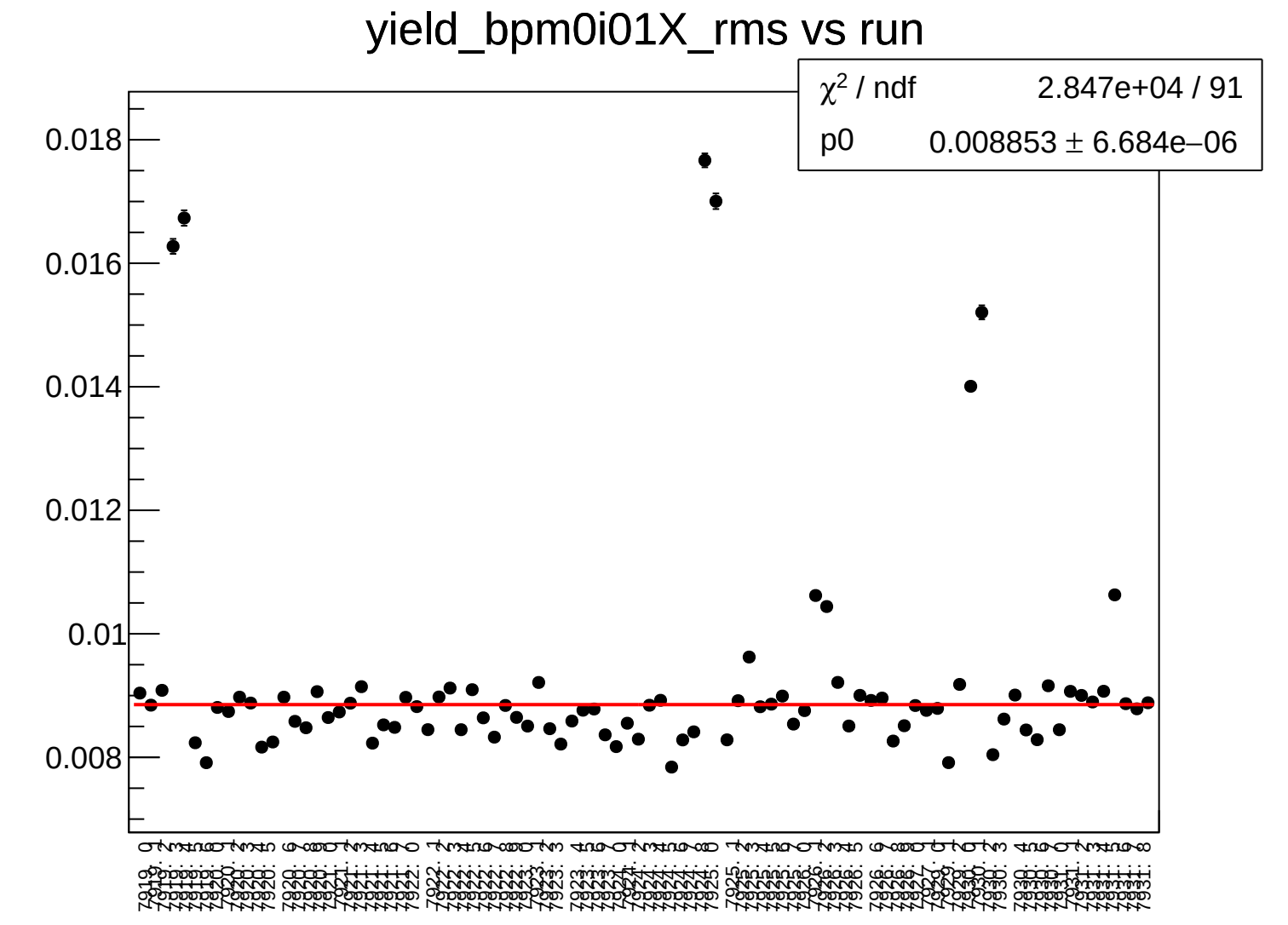

yield_bpm2i02Y_mean vs run
χ² / ndf 4.143e+05 / 91
p0 −1.233 ± 1.104e−05
−1.215
−1.22
−1.225
−1.23
−1.235
−1.24
−1.245
−1.25
pull
Entries 92
Mean −6366
Std Dev 0
150
100
50
0
−50
−100
−150

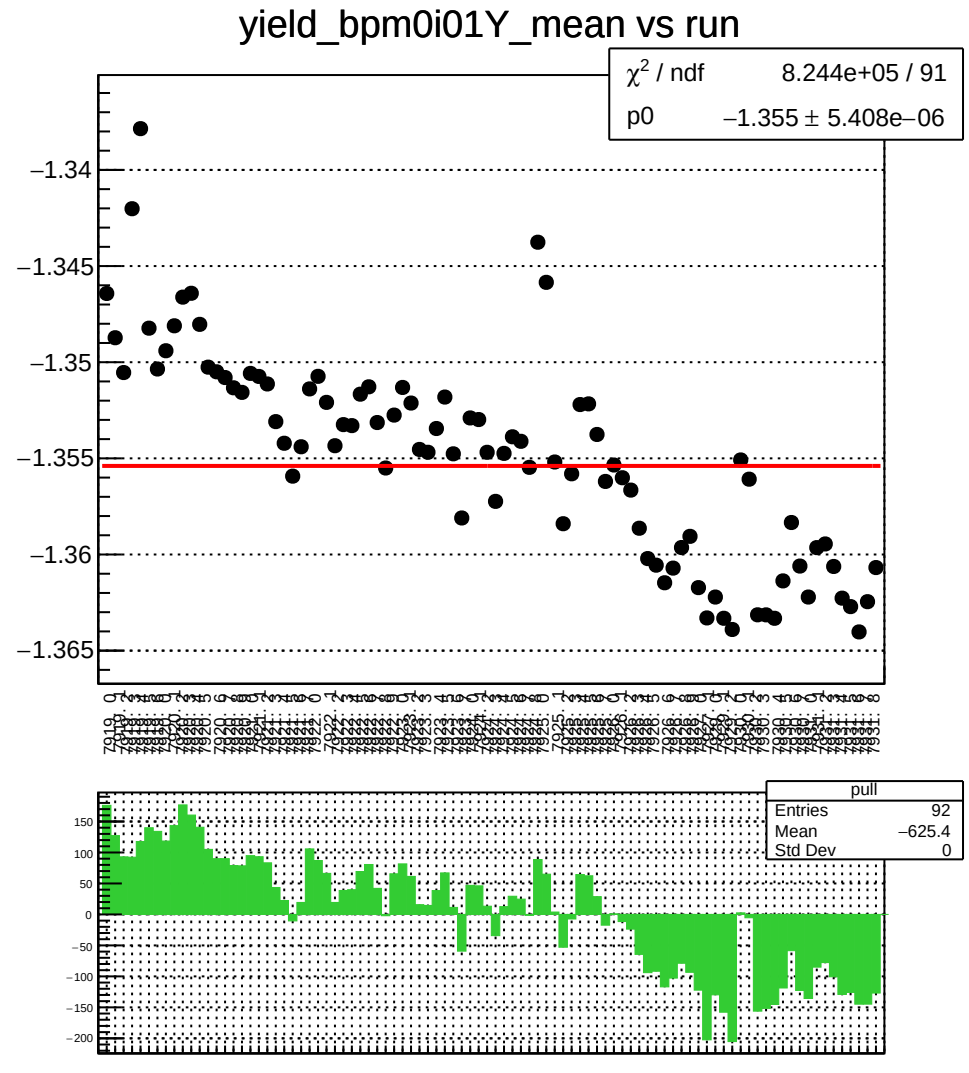

pull1D
Entries 92
Mean 1.701
Std Dev 4.216
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

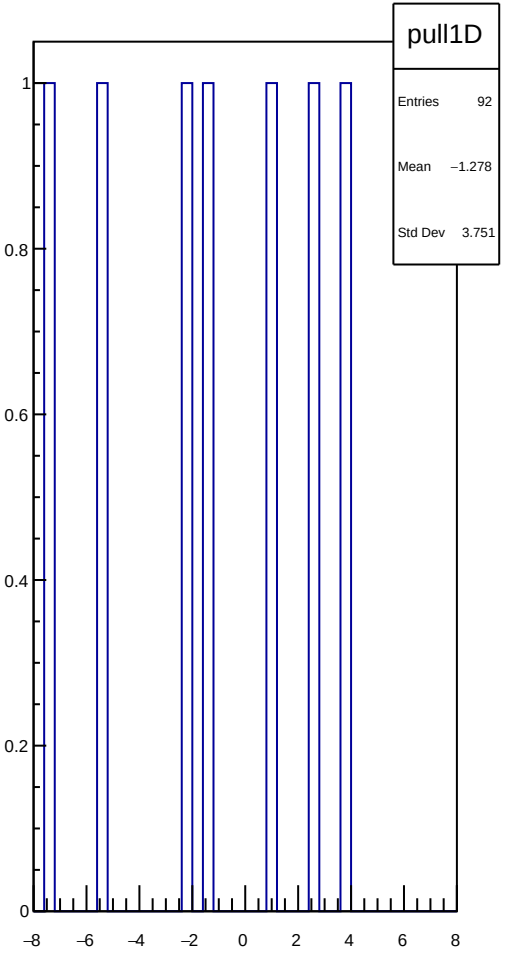

yield_bpm2i02Y_rms vs run
χ² / ndf 2646 / 91
p0 0.01041 ± 7.805e–06
0.0115
0.011
0.0105
0.01
0.0095

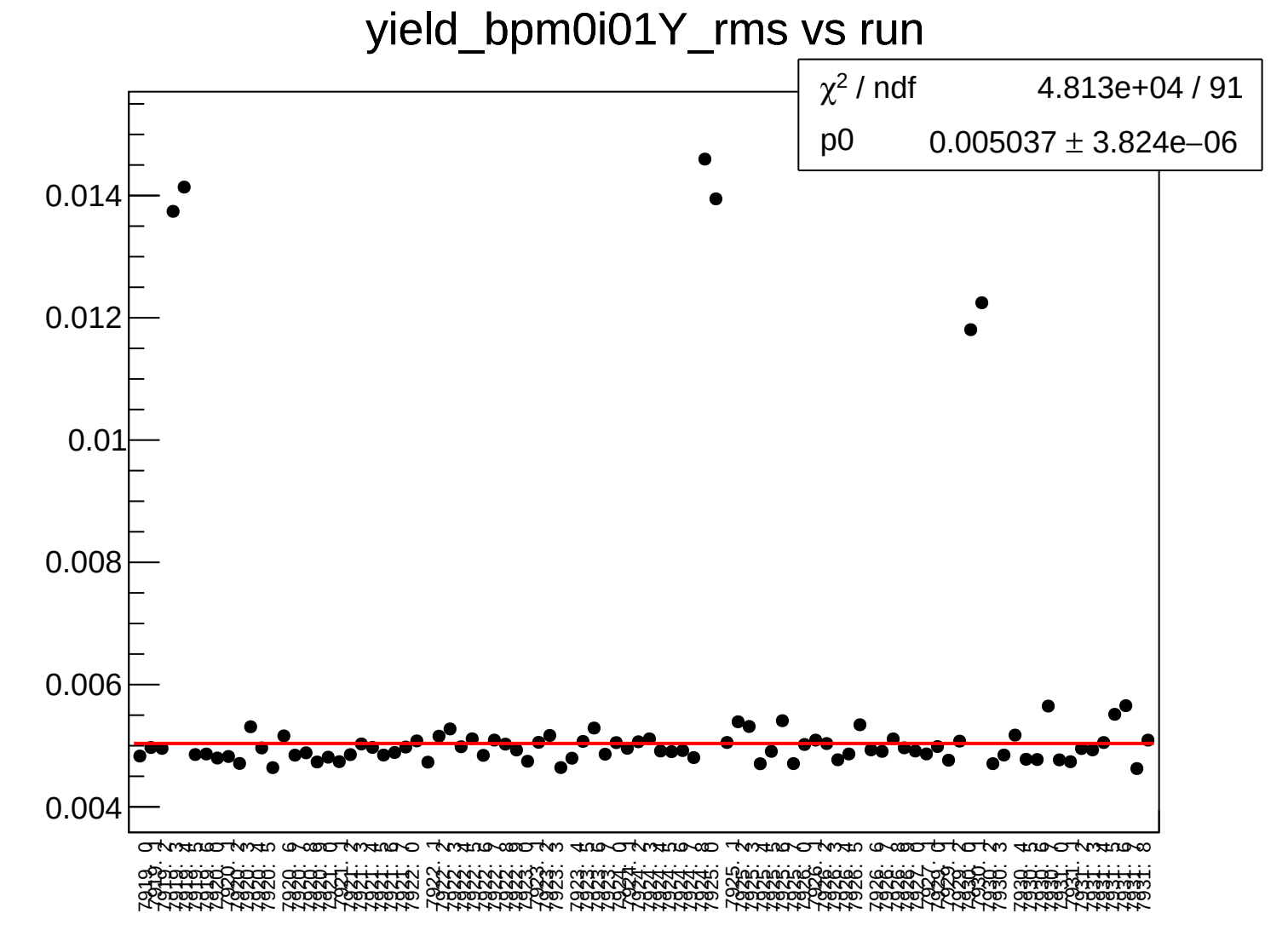

yield_bpm0i01X_mean vs run
χ² / ndf 9.279e+05 / 91
p0 −0.2221 ± 9.453e−06
−0.2
−0.21
−0.22
−0.23
−0.24
pull
Entries 92
Mean −922.7
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200
−250

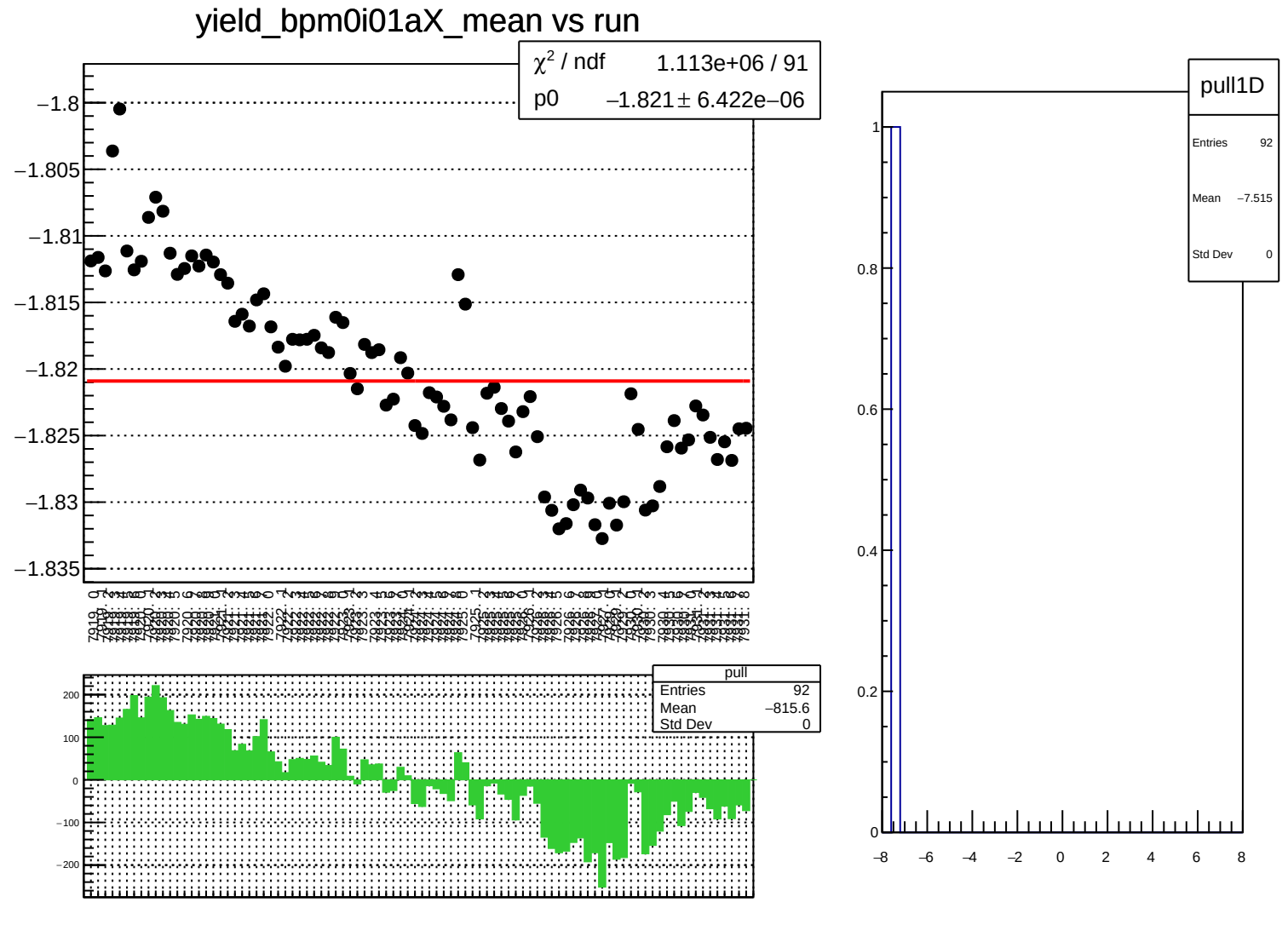

pull1D
Entries 92
Mean −1.828
Std Dev 3.681
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

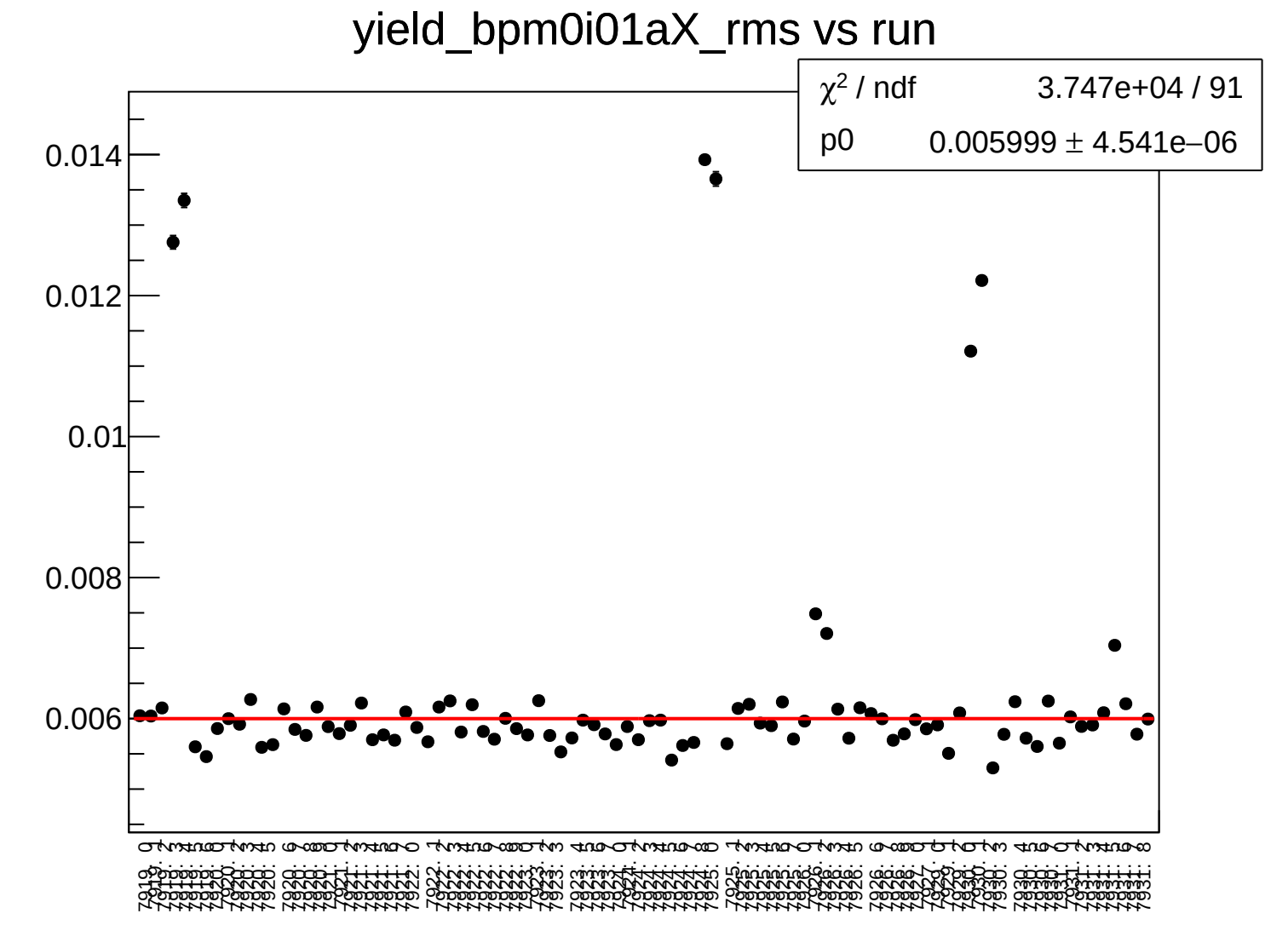

yield_bpm0i01X_rms vs run
χ² / ndf 2.847e+04 / 91
p0 0.008853 ± 6.684e−06
0.018
0.016
0.014
0.012
0.01
0.008

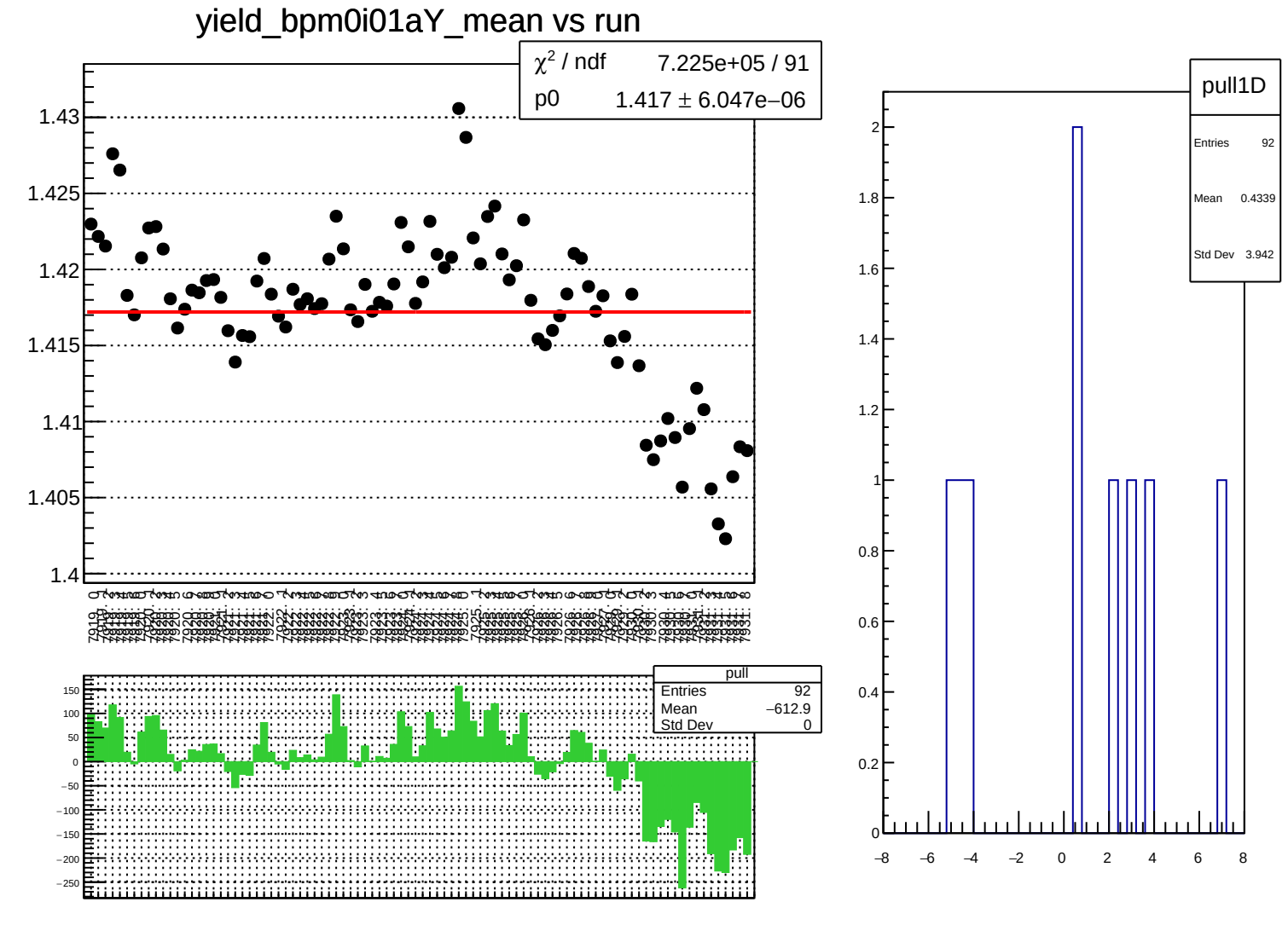

yield_bpm0i01Y_mean vs run
χ² / ndf 8.244e+05 / 91
p0 −1.355 ± 5.408e−06
−1.34
−1.345
−1.35
−1.355
−1.36
−1.365
pull
Entries 92
Mean −625.4
Std Dev 0
150
100
50
0
−50
−100
−150
−200

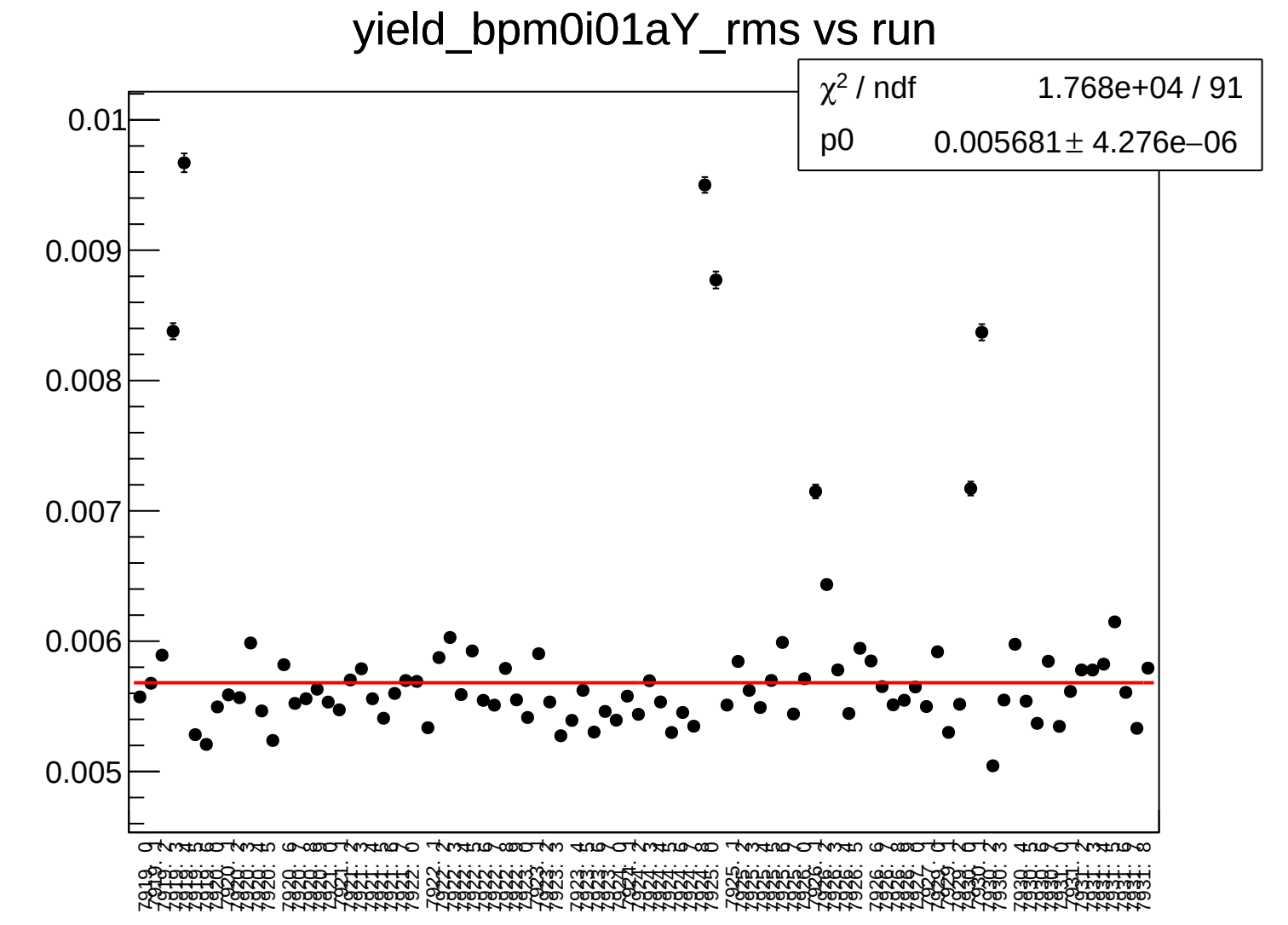

pull1D
Entries 92
Mean −1.278
Std Dev 3.751
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

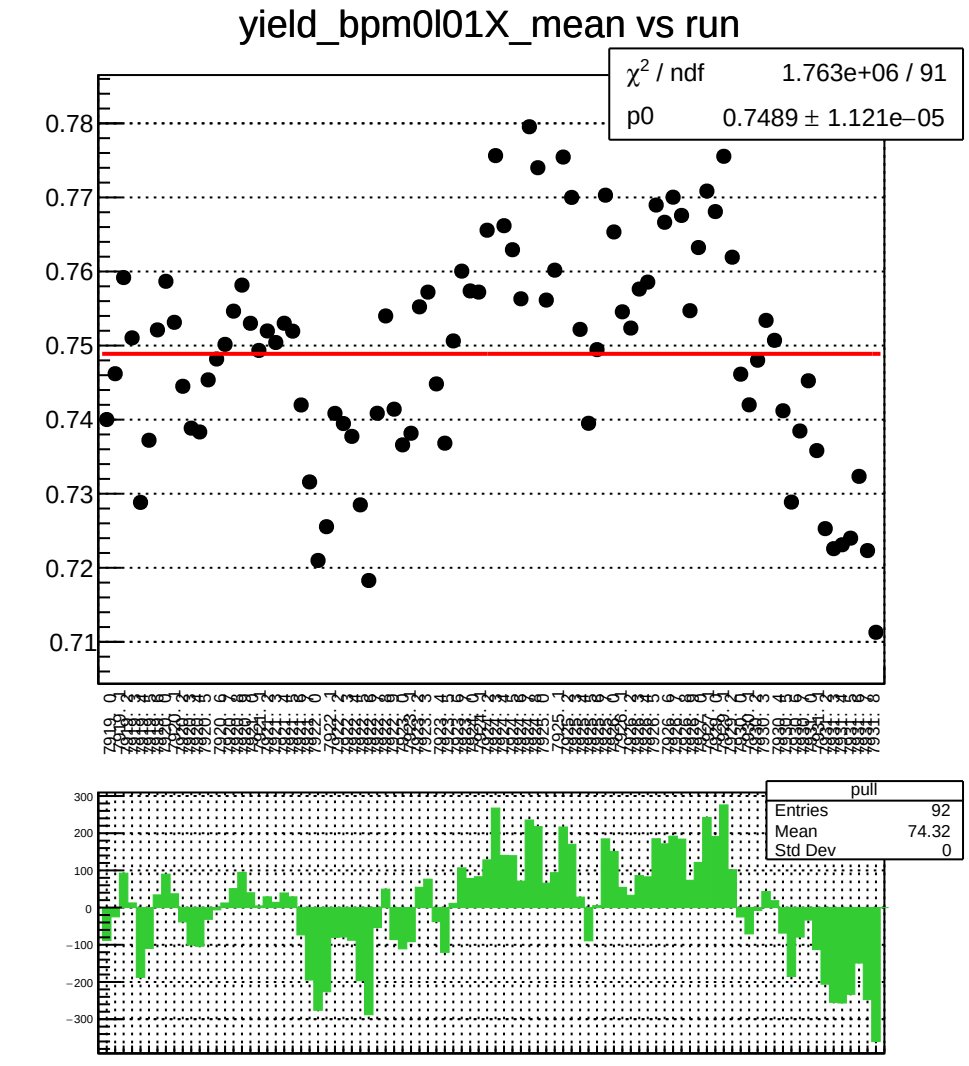

yield_bpm0i01Y_rms vs run
χ² / ndf 4.813e+04 / 91
p0 0.005037 ± 3.824e−06
0.014
0.012
0.01
0.008
0.006
0.004

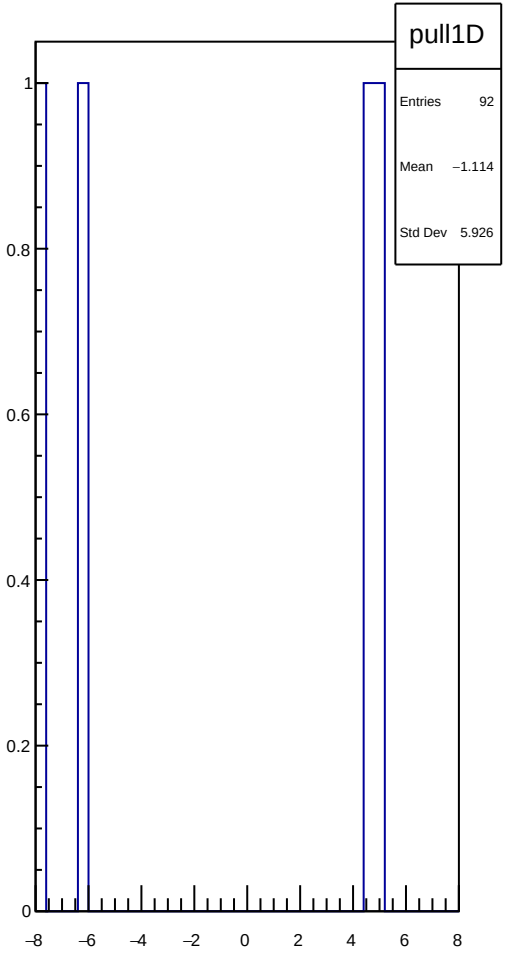

yield_bpm0i01aX_mean vs run
χ² / ndf 1.113e+06 / 91
p0 −1.821 ± 6.422e−06
−1.8
−1.805
−1.81
−1.815
−1.82
−1.825
−1.83
−1.835
pull
Entries 92
Mean −815.6
Std Dev 0
200
100
0
−100
−200
pull1D
Entries 92
Mean −7.515
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

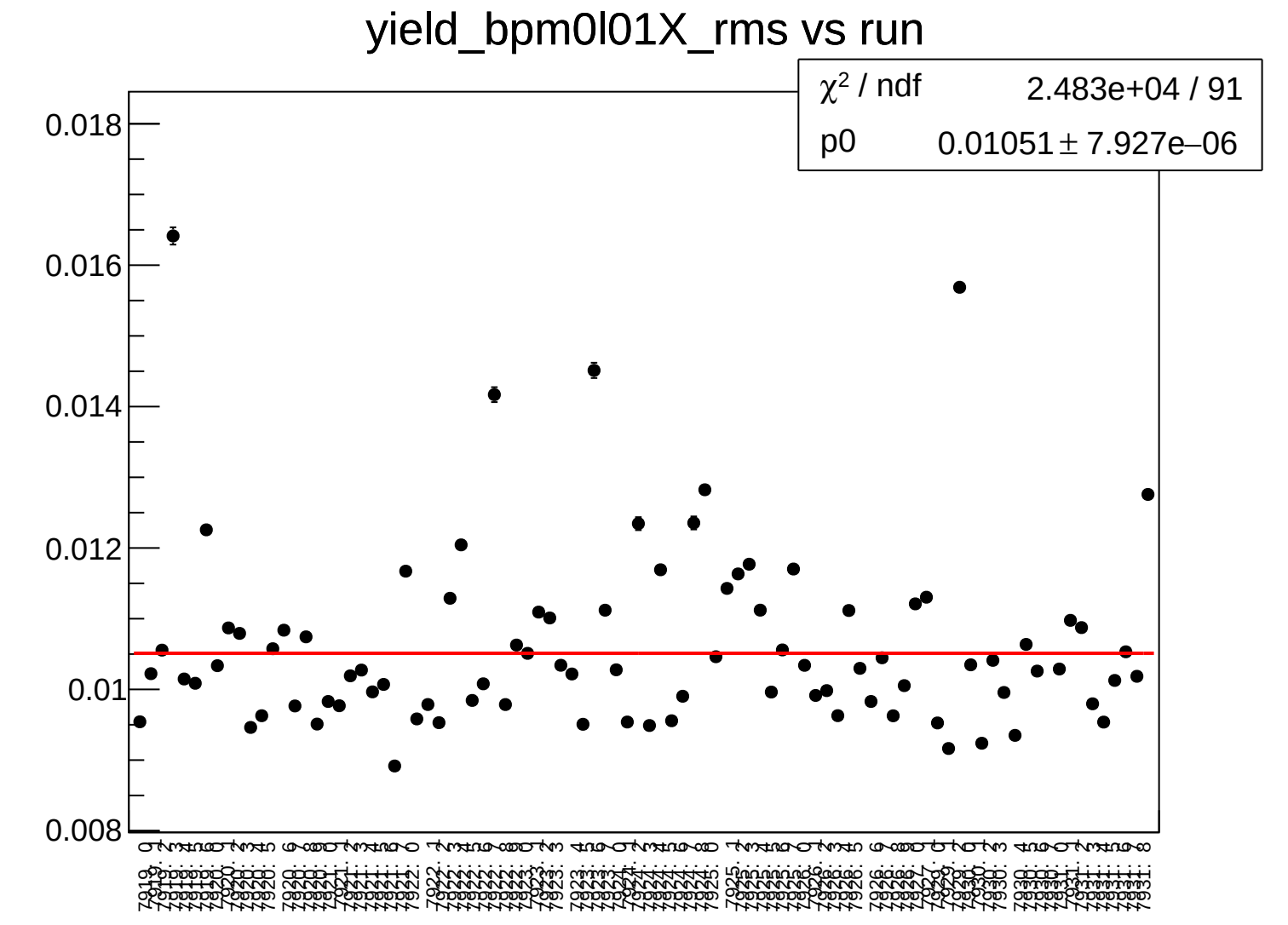

yield_bpm0i01aX_rms vs run
χ² / ndf 3.747e+04 / 91
p0 0.005999 ± 4.541e−06
0.014
0.012
0.01
0.008
0.006

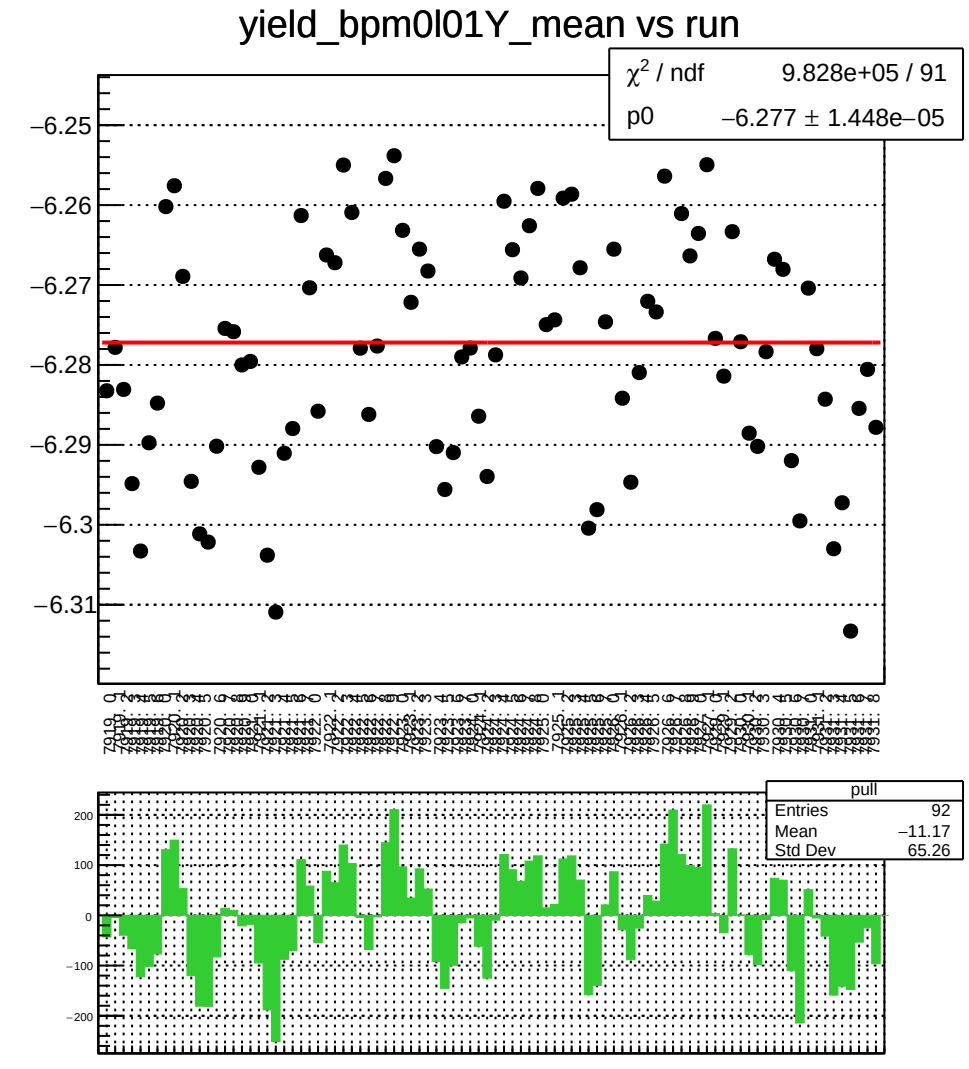

yield_bpm0i01aY_mean vs run
χ² / ndf 7.225e+05 / 91
p0 1.417 ± 6.047e−06
1.43
1.425
1.42
1.415
1.41
1.405
1.4
pull
Entries 92
Mean −612.9
Std Dev 0
150
100
50
0
−50
−100
−150
−200
−250
pull1D
Entries 92
Mean 0.4339
Std Dev 3.942
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

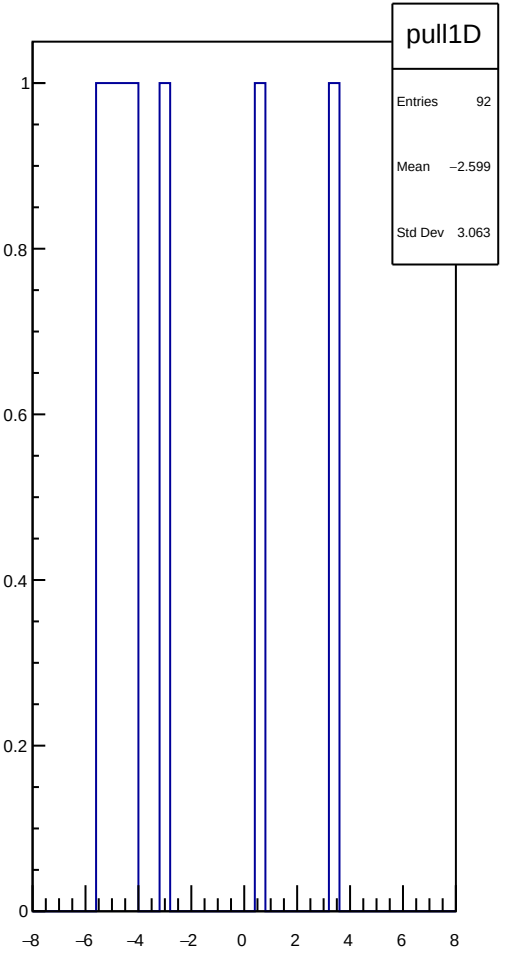

yield_bpm0i01aY_rms vs run
χ^2 / ndf 1.768e+04 / 91
p0 0.005681 ± 4.276e−06
0.01
0.009
0.008
0.007
0.006
0.005

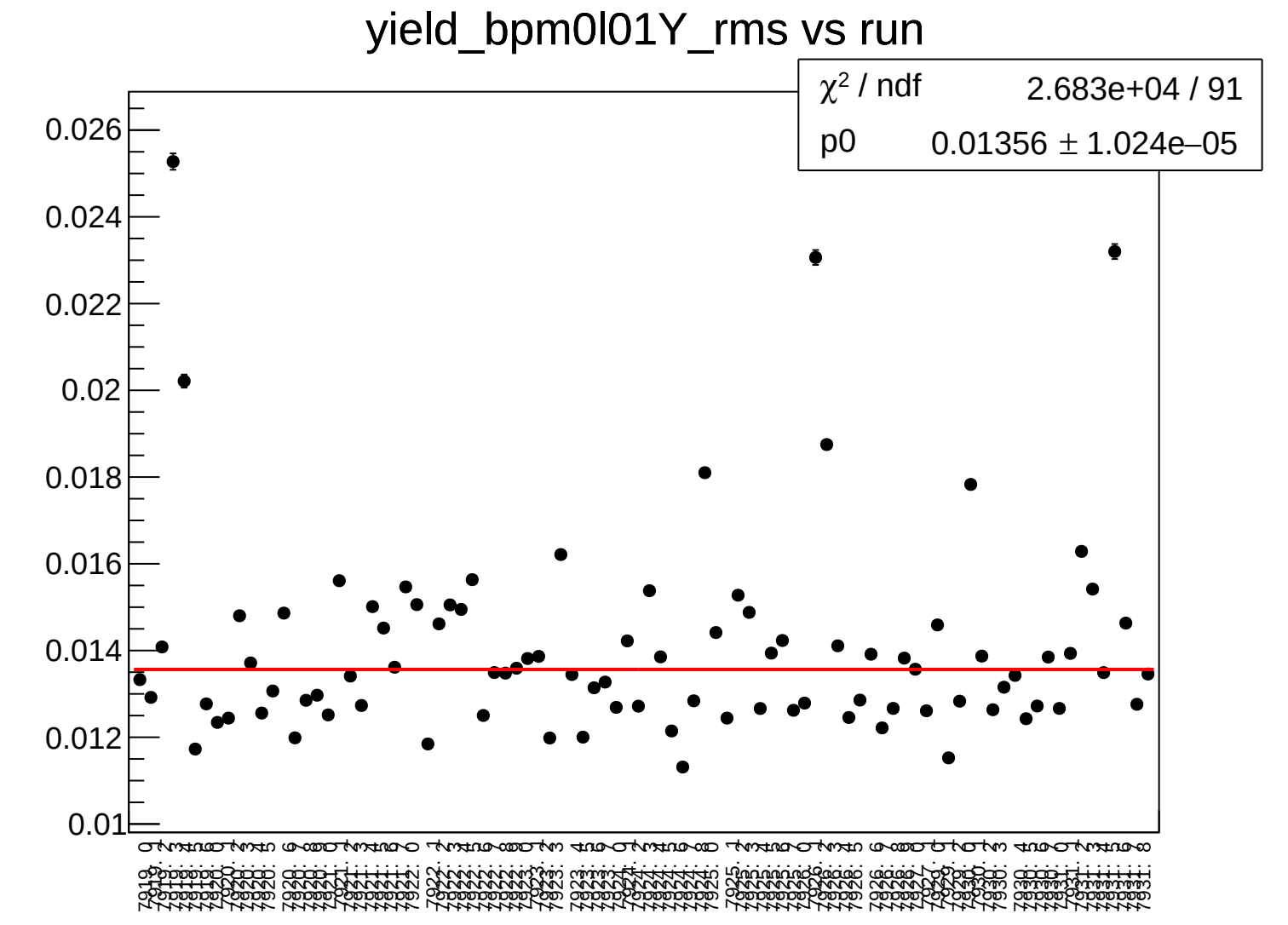

yield_bpm0l01X_mean vs run
χ² / ndf 1.763e+06 / 91
p0 0.7489 ± 1.121e−05
0.78
0.77
0.76
0.75
0.74
0.73
0.72
0.71
pull
Entries 92
Mean 74.32
Std Dev 0
300
200
100
0
−100
−200
−300

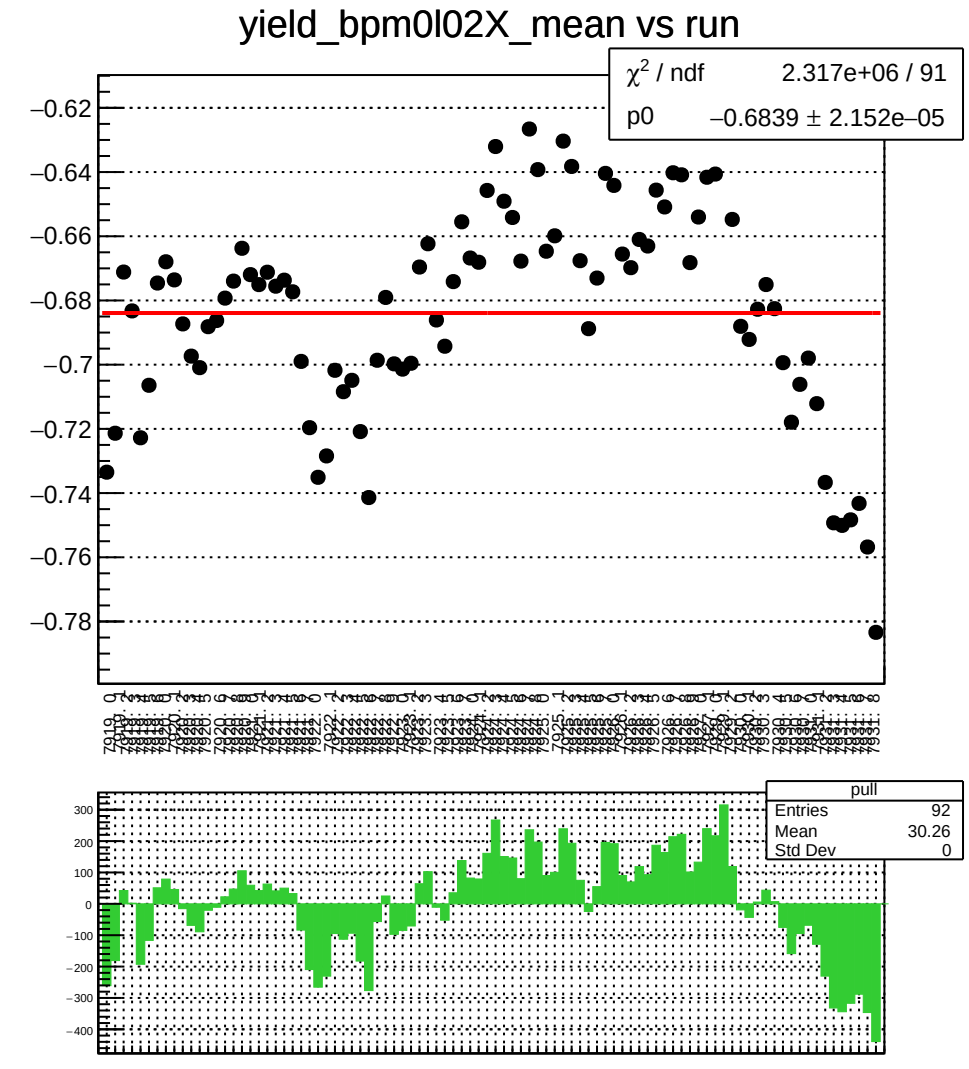

pull1D
Entries 92
Mean −1.114
Std Dev 5.926
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

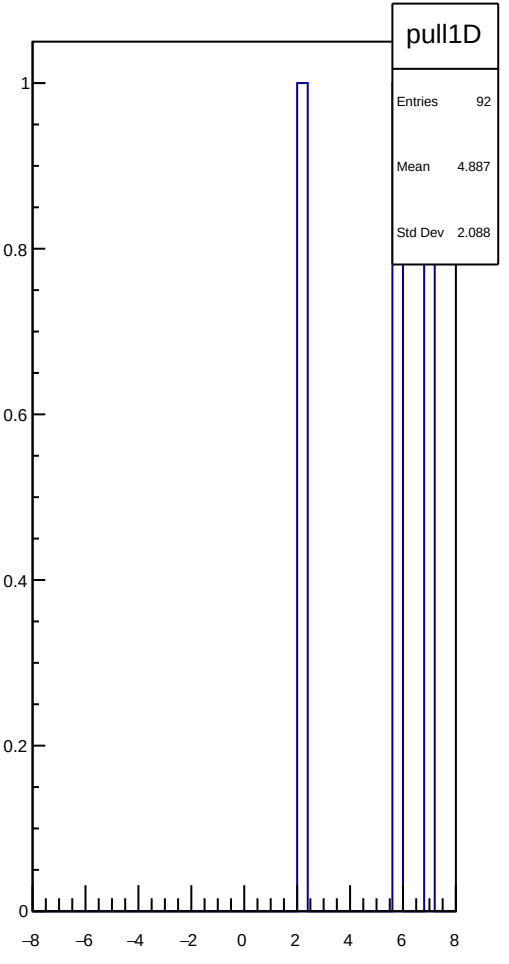

yield_bpm0l01X_rms vs run
χ² / ndf 2.483e+04 / 91
p0 0.01051 ± 7.927e–06
0.018
0.016
0.014
0.012
0.01
0.008

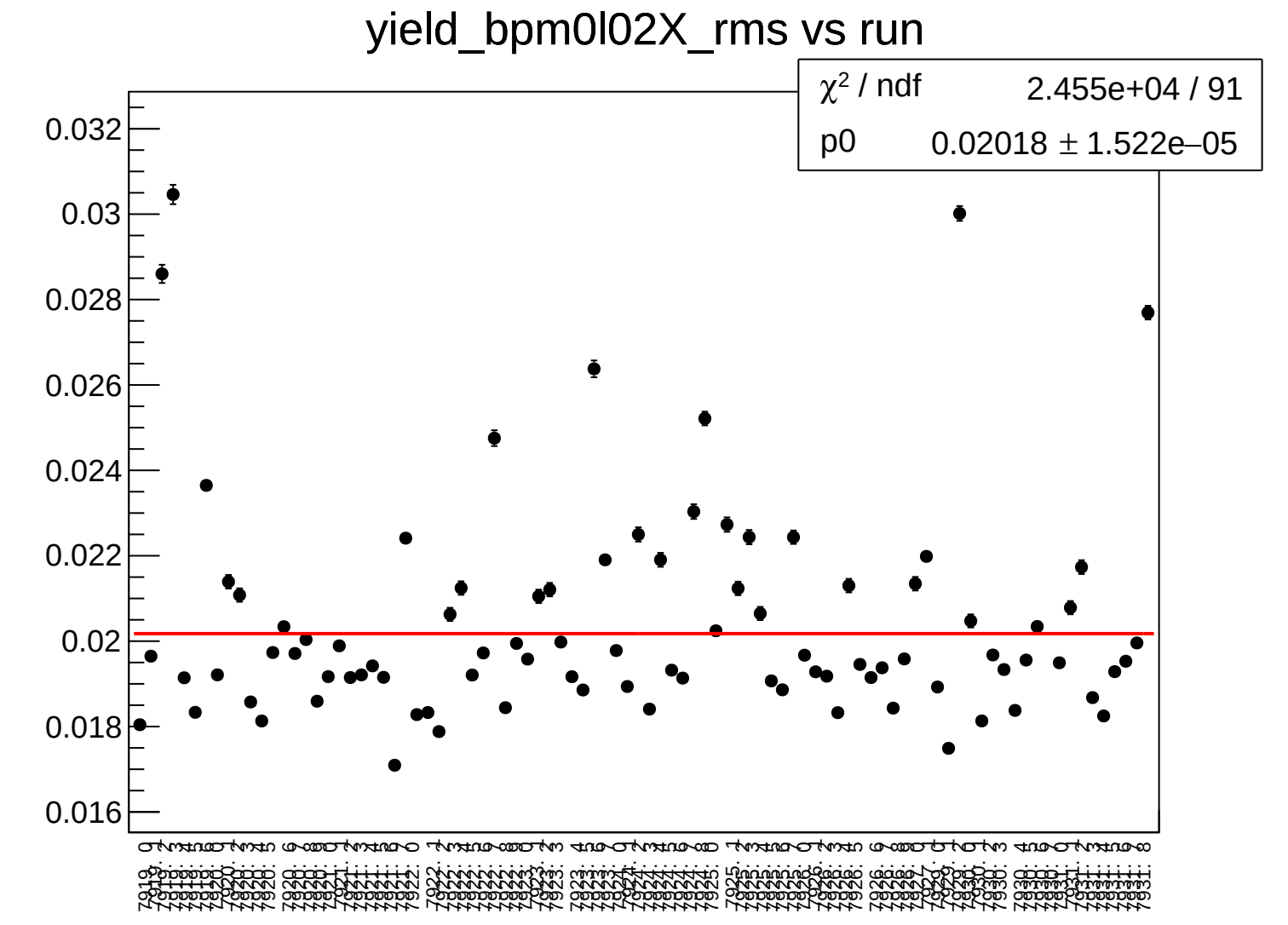

yield_bpm0l01Y_mean vs run
χ² / ndf 9.828e+05 / 91
p0 −6.277 ± 1.448e−05
−6.25
−6.26
−6.27
−6.28
−6.29
−6.3
−6.31
pull
Entries 92
Mean −11.17
Std Dev 65.26
200
100
0
−100
−200

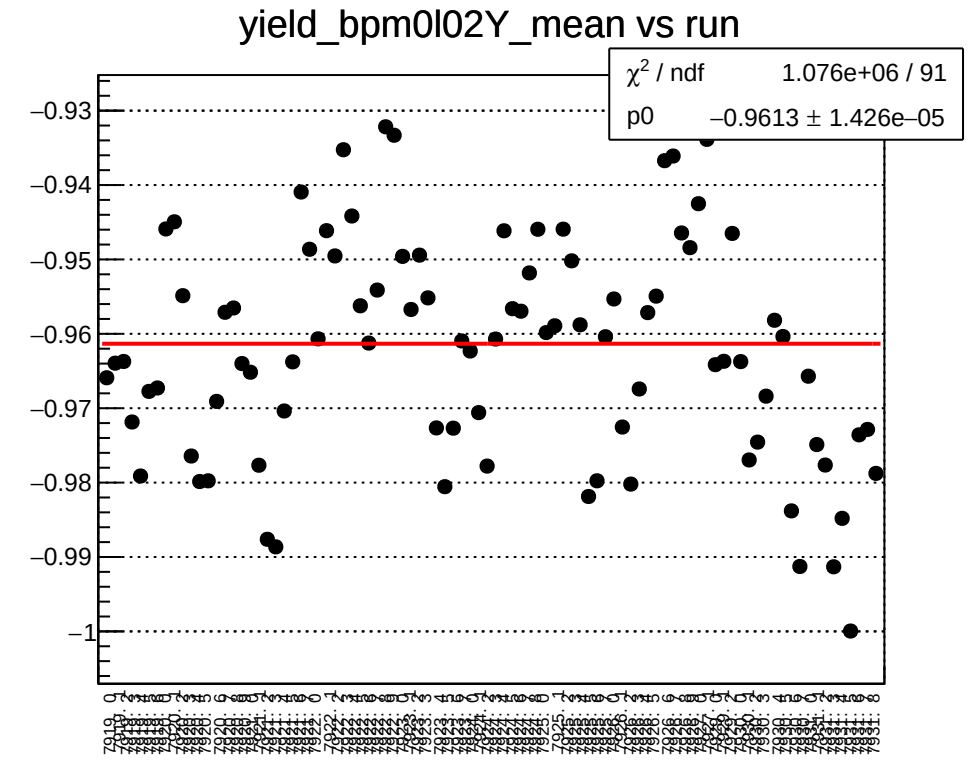

pull1D
Entries 92
Mean −2.599
Std Dev 3.063
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

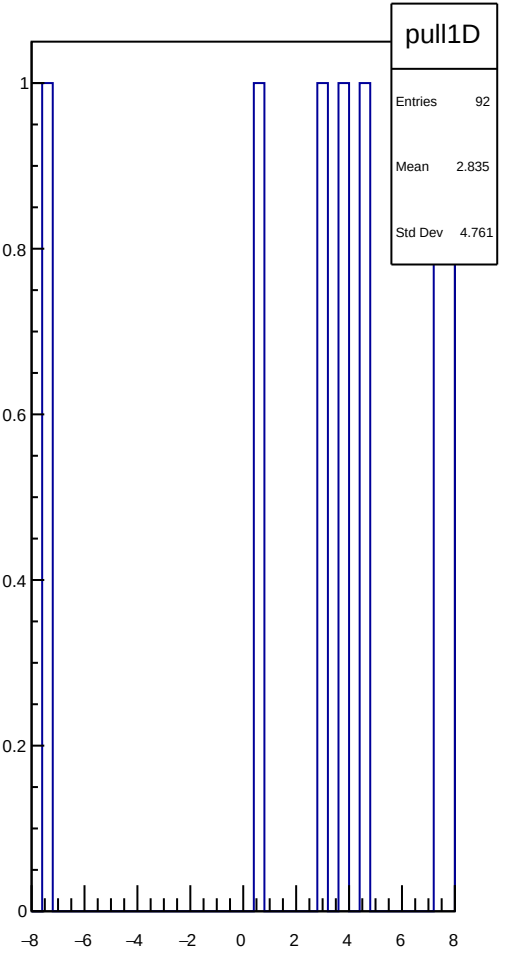

yield_bpm0l01Y_rms vs run
χ² / ndf 2.683e+04 / 91
p0 0.01356 ± 1.024e–05
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

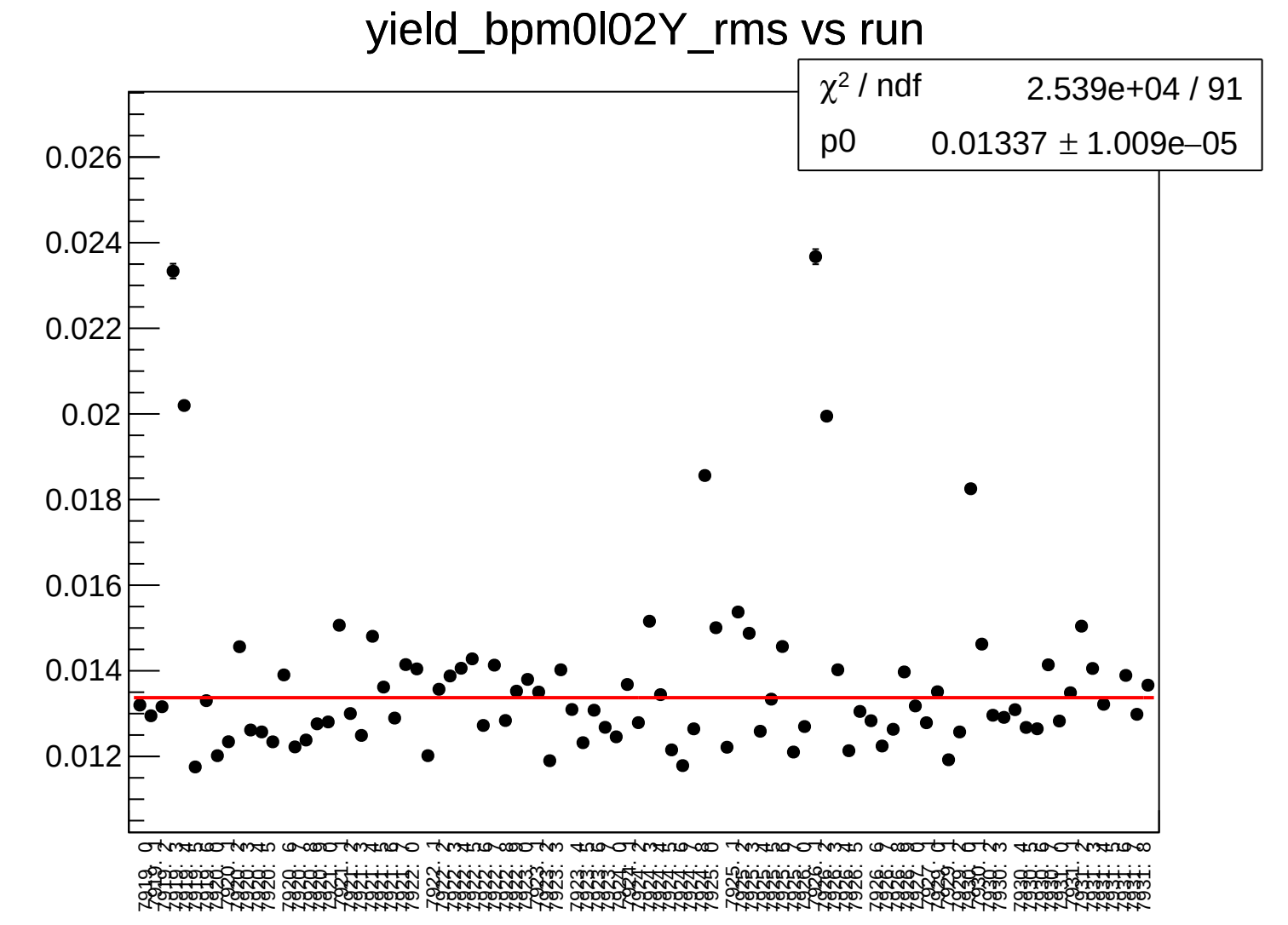

yield_bpm0l02X_mean vs run
χ² / ndf 2.317e+06 / 91
p0 −0.6839 ± 2.152e−05
−0.62
−0.64
−0.66
−0.68
−0.7
−0.72
−0.74
−0.76
−0.78
pull
Entries 92
Mean 30.26
Std Dev 0
300
200
100
0
−100
−200
−300
−400

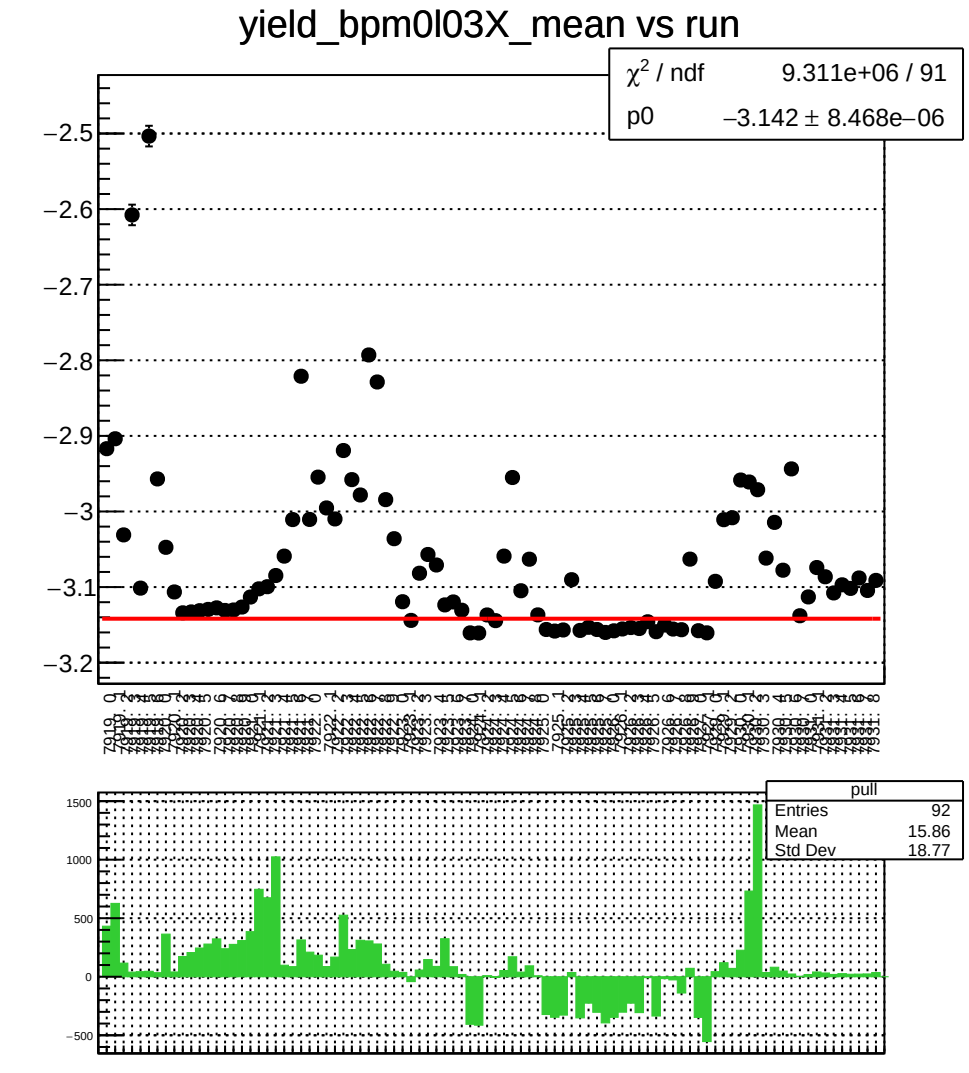

pull1D
Entries 92
Mean 4.887
Std Dev 2.088
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

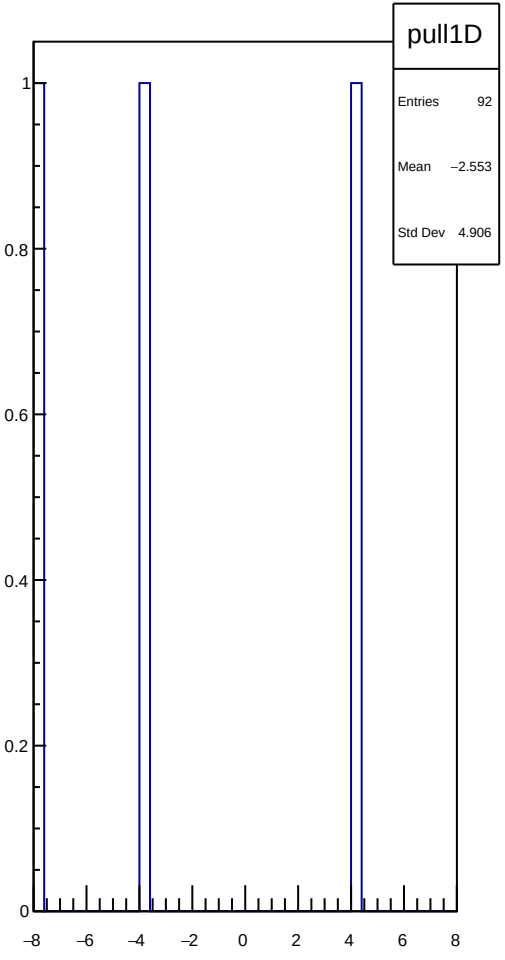

yield_bpm0l02X_rms vs run
χ² / ndf 2.455e+04 / 91
p0 0.02018 ± 1.522e−05
0.032
0.03
0.028
0.026
0.024
0.022
0.02
0.018
0.016

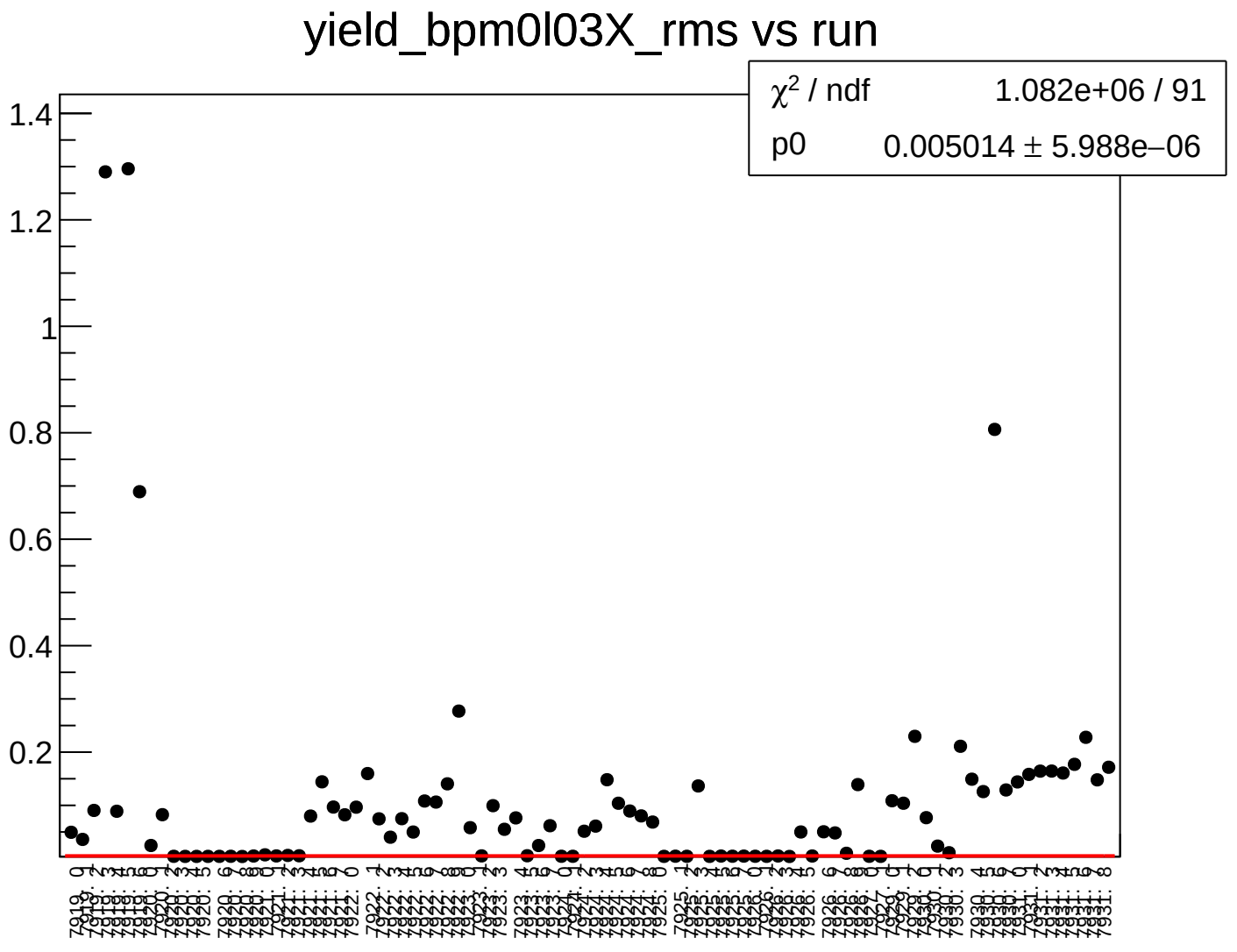

yield_bpm0l02Y_mean vs run
χ² / ndf 1.076e+06 / 91
p0 −0.9613 ± 1.426e−05
−0.93
−0.94
−0.95
−0.96
−0.97
−0.98
−0.99
−1
pull
Entries 92
Mean 144.7
Std Dev 0
200
100
0
−100
−200
−300

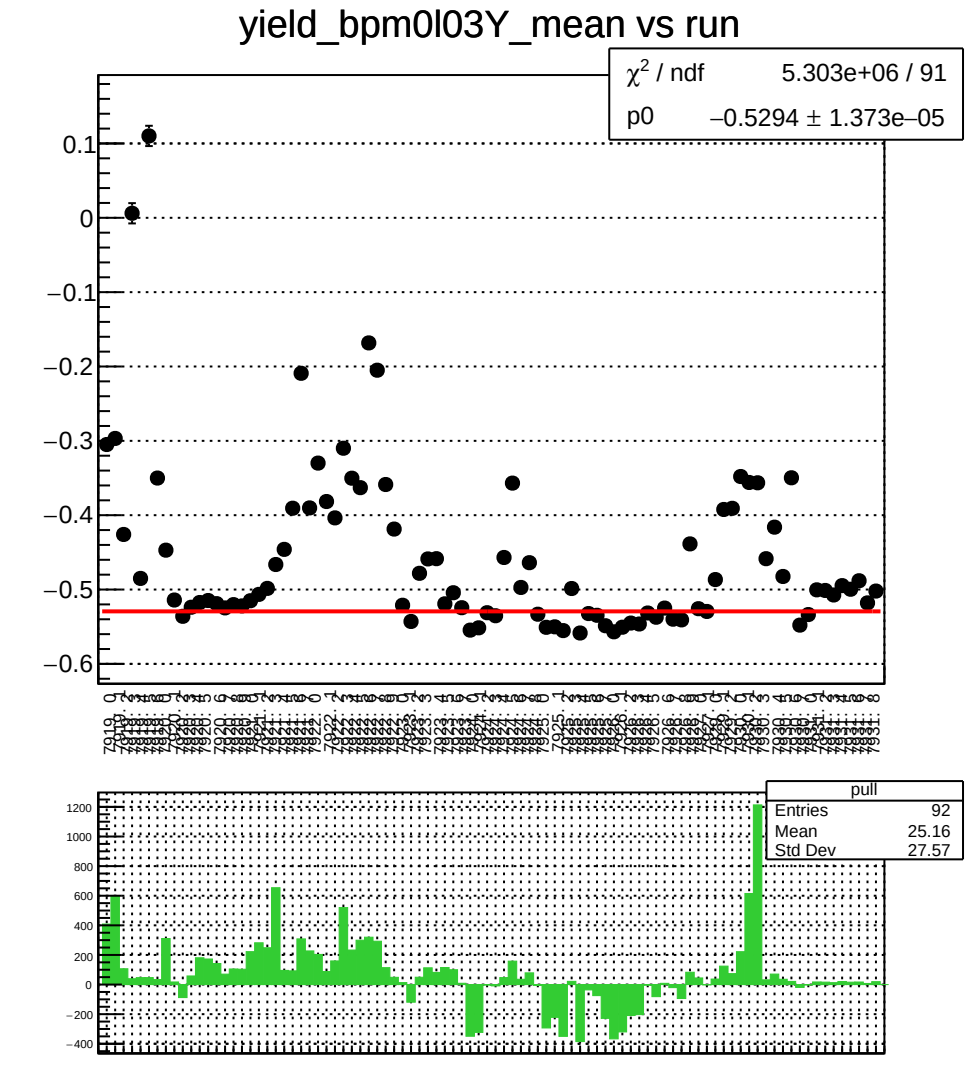

pull1D
Entries 92
Mean 2.835
Std Dev 4.761
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

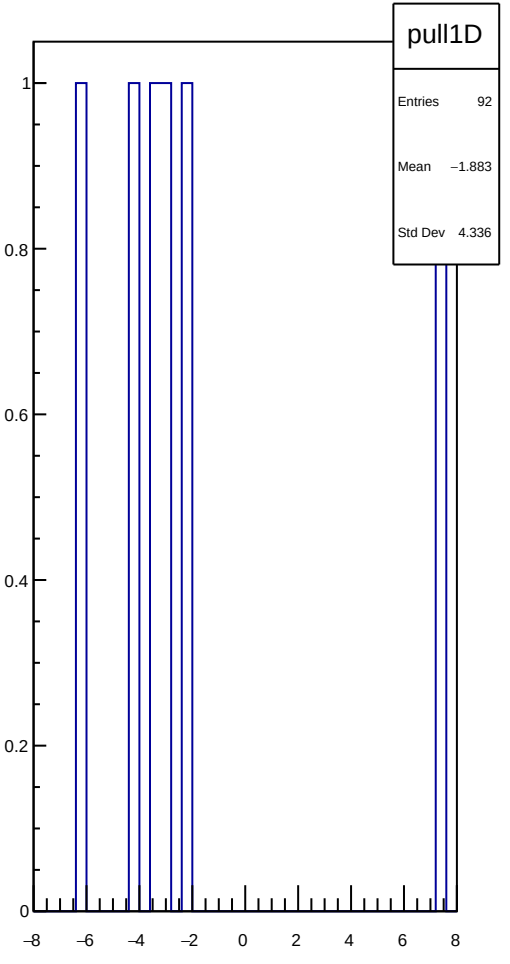

yield_bpm0l02Y_rms vs run
χ² / ndf 2.539e+04 / 91
p0 0.01337 ± 1.009e−05
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012

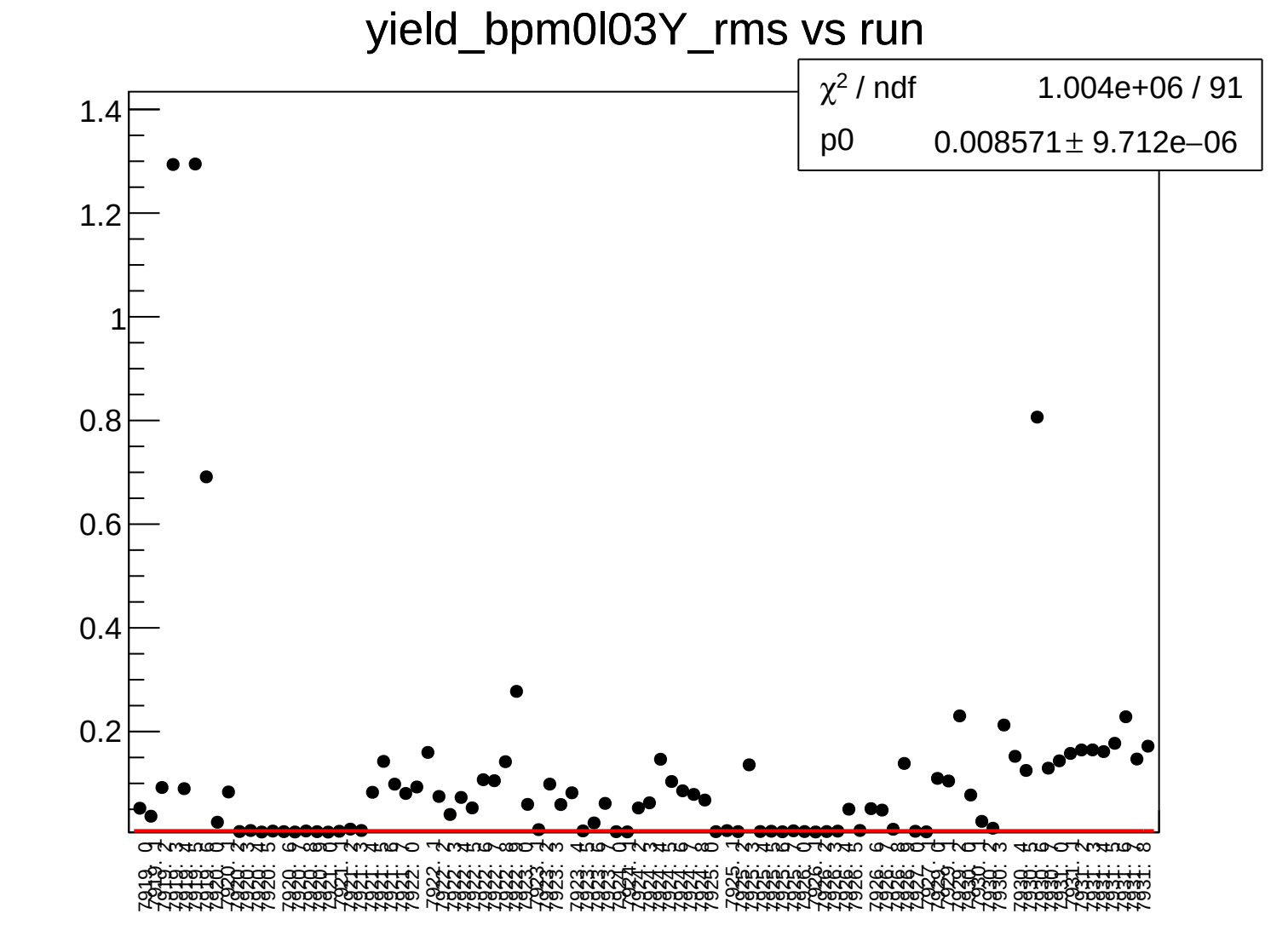

yield_bpm0l03X_mean vs run
χ² / ndf 9.311e+06 / 91
p0 −3.142 ± 8.468e−06
pull
Entries 92
Mean 15.86
Std Dev 18.77

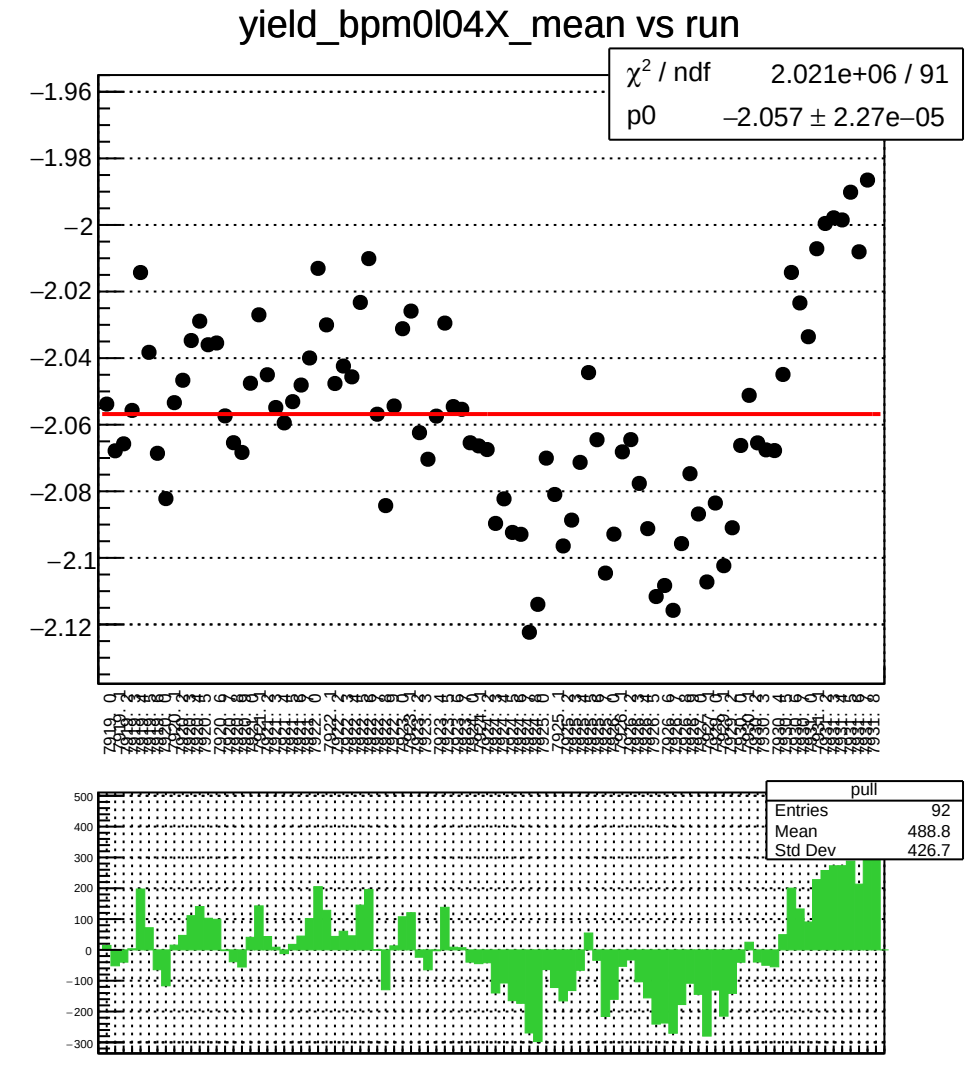

pull1D
Entries 92
Mean −2.553
Std Dev 4.906

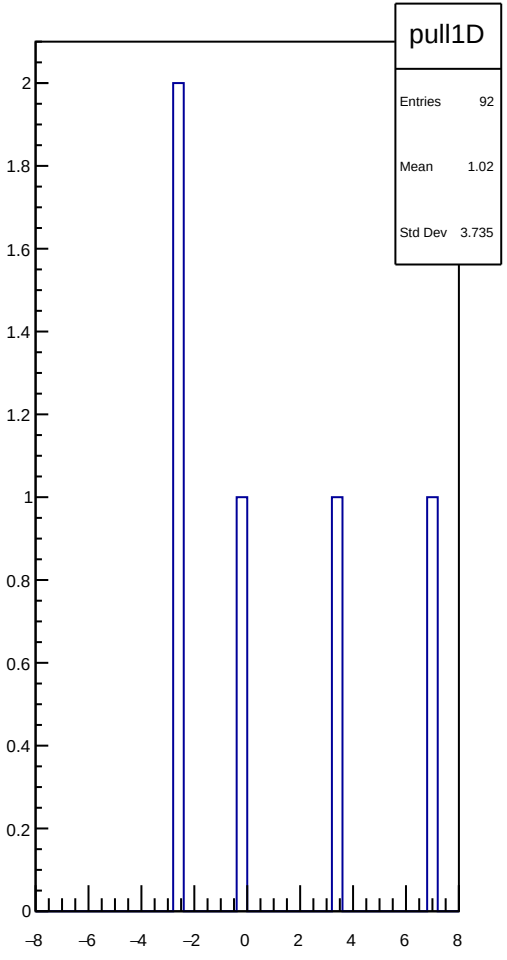

yield_bpm0l03X_rms vs run
χ² / ndf 1.082e+06 / 91
p0 0.005014 ± 5.988e−06
1.4
1.2
1
0.8
0.6
0.4
0.2

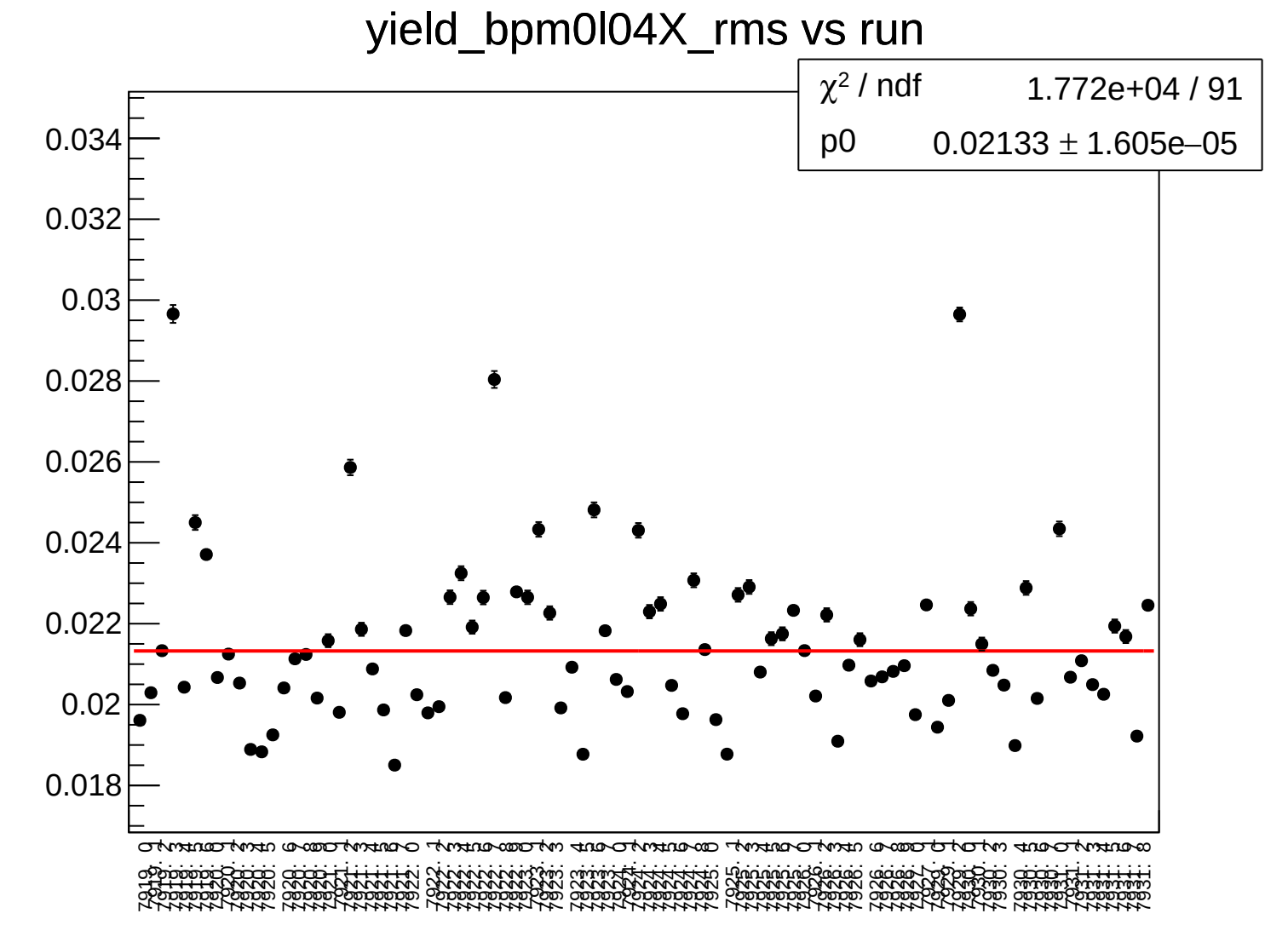

yield_bpm0l03Y_mean vs run
χ² / ndf 5.303e+06 / 91
p0 −0.5294 ± 1.373e−05
pull
Entries 92
Mean 25.16
Std Dev 27.57

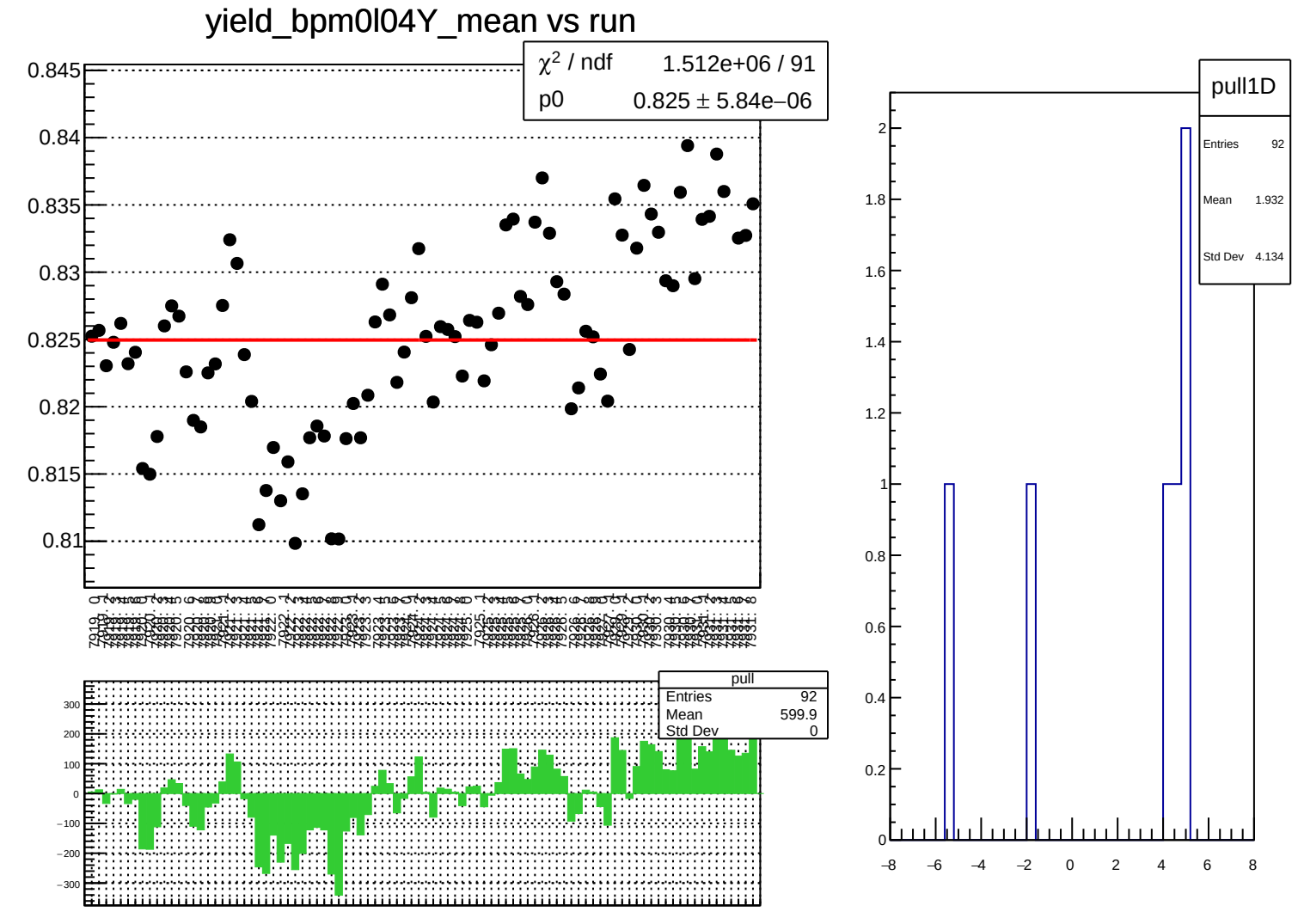

pull1D
Entries 92
Mean −1.883
Std Dev 4.336

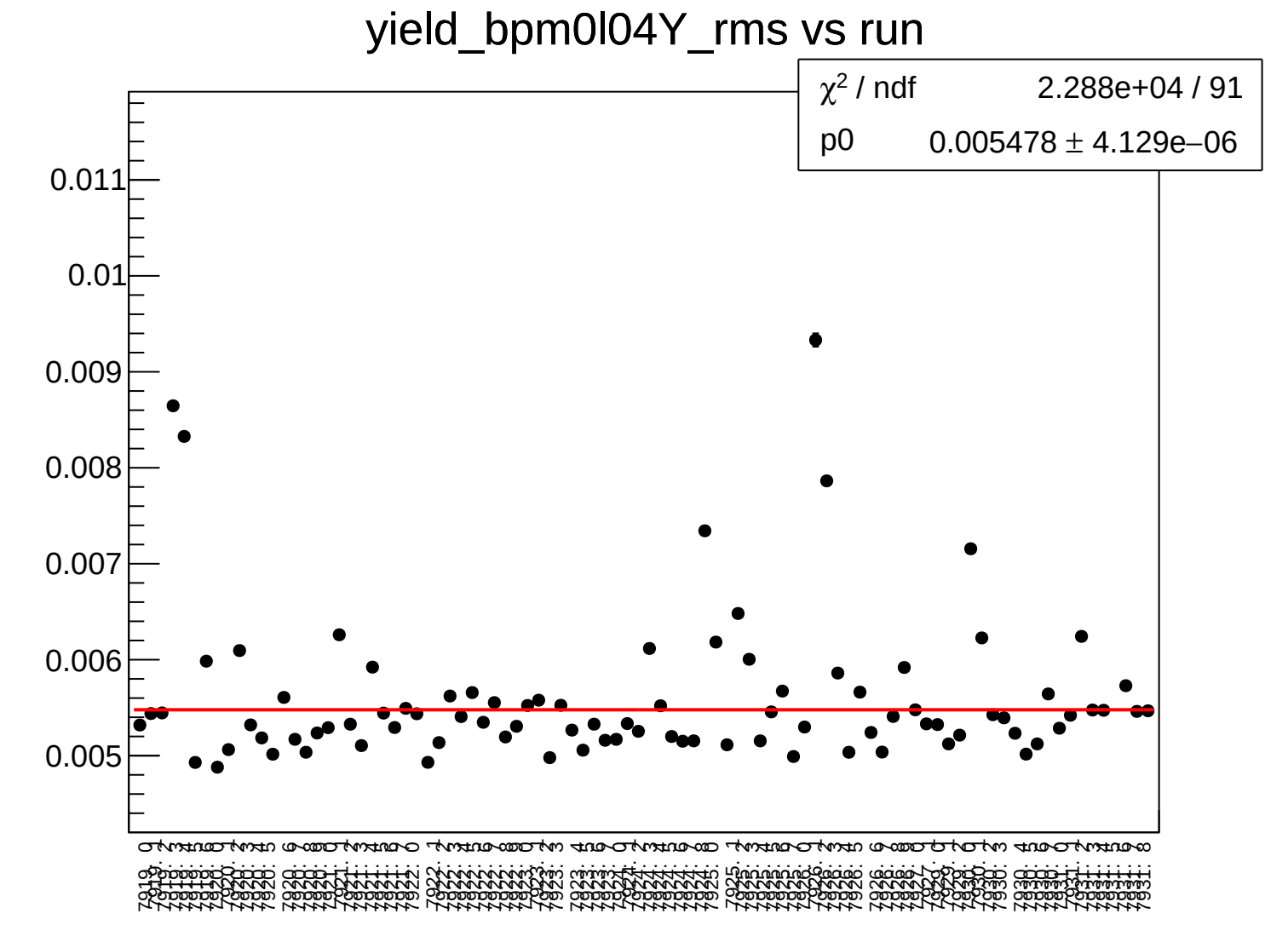

yield_bpm0l03Y_rms vs run
χ² / ndf 1.004e+06 / 91
p0 0.008571 ± 9.712e−06
1.4
1.2
1
0.8
0.6
0.4
0.2

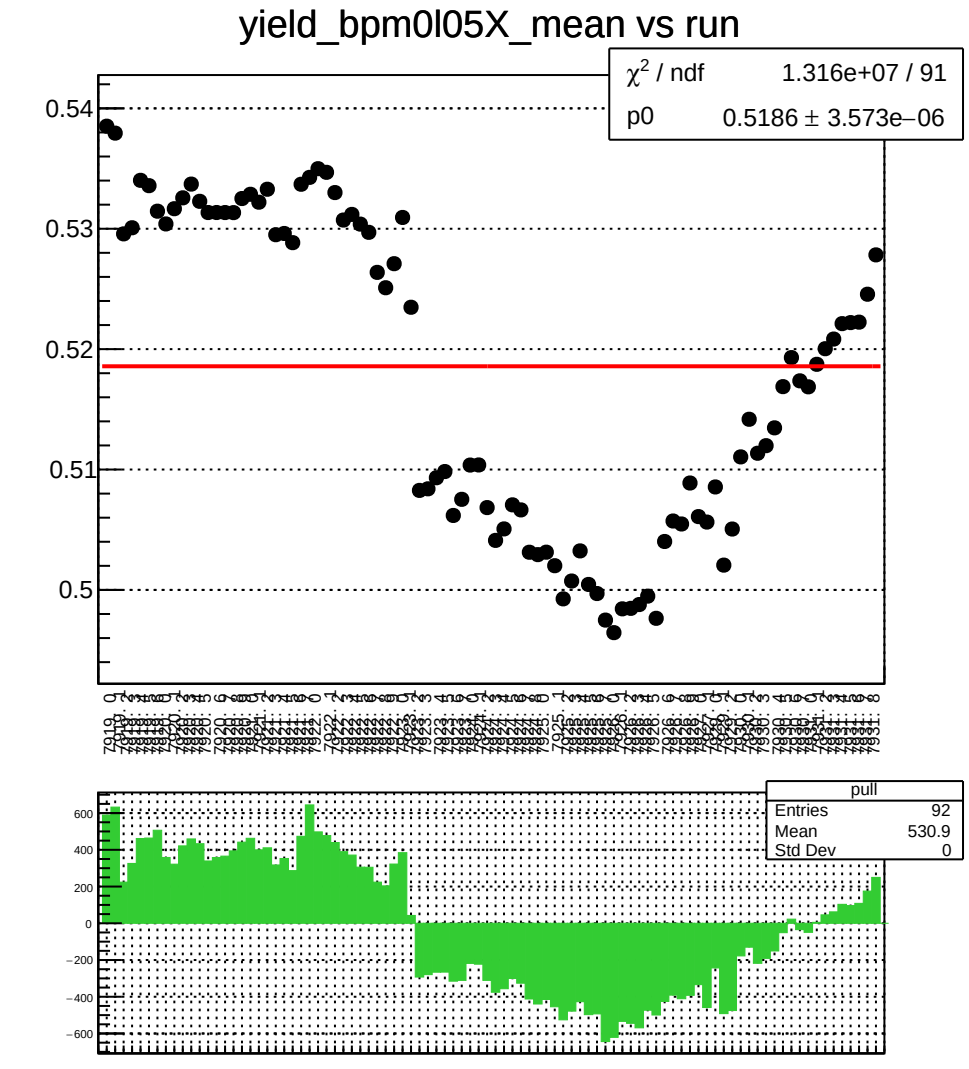

yield_bpm0l04X_mean vs run
χ² / ndf 2.021e+06 / 91
p0 −2.057 ± 2.27e−05
−1.96
−1.98
−2
−2.02
−2.04
−2.06
−2.08
−2.1
−2.12
pull
Entries 92
Mean 488.8
Std Dev 426.7
500
400
300
200
100
0
−100
−200
−300

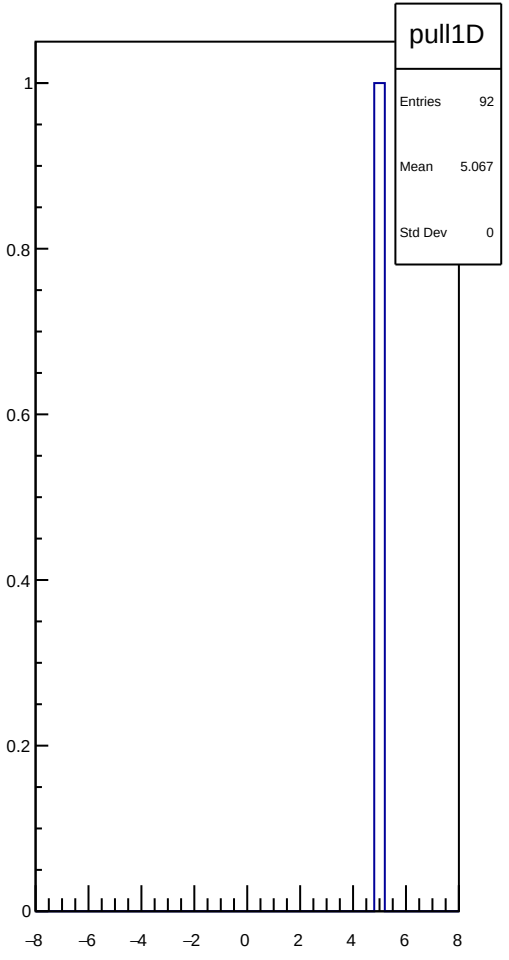

pull1D
Entries 92
Mean 1.02
Std Dev 3.735
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

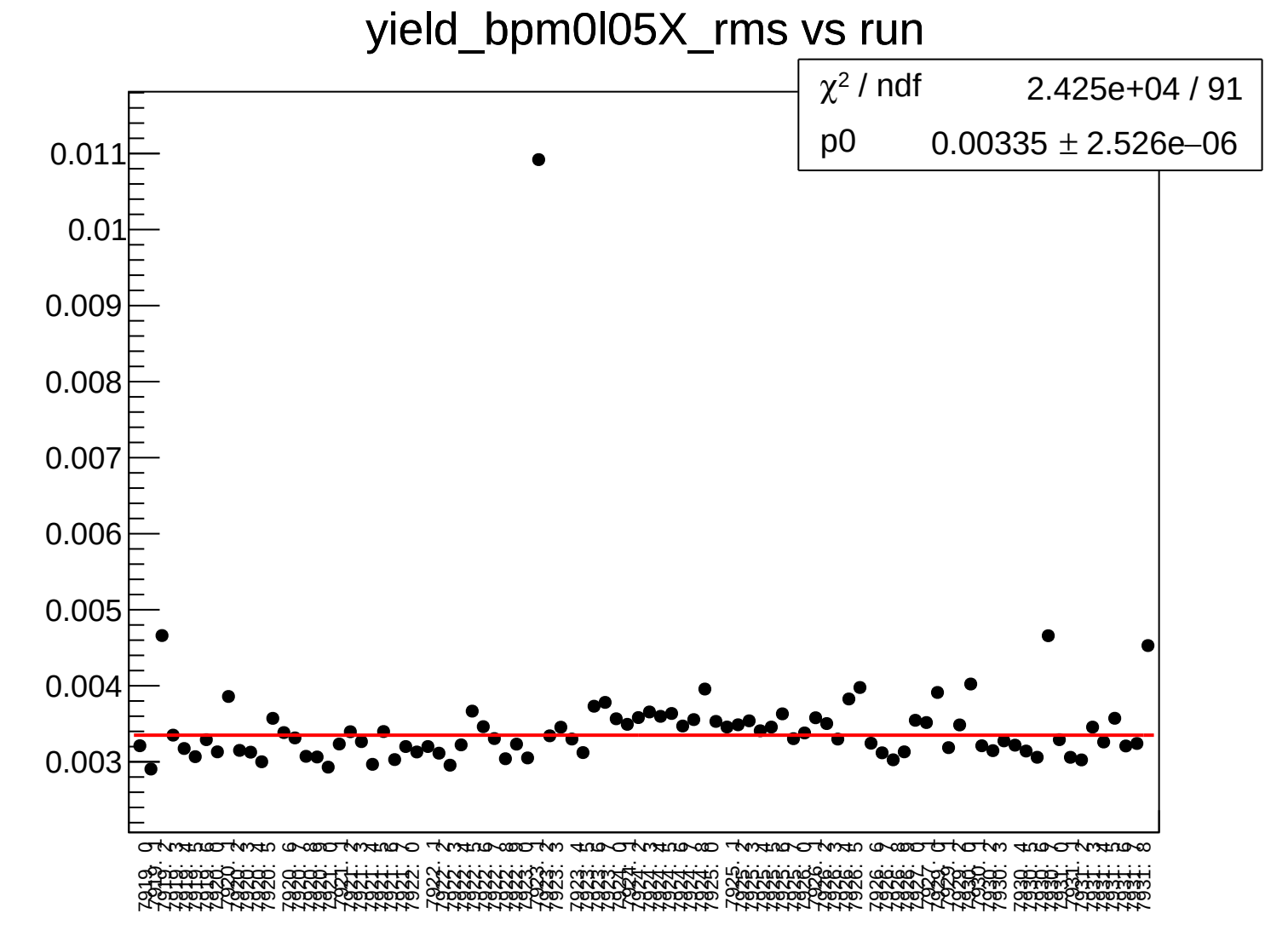

yield_bpm0l04X_rms vs run
χ² / ndf 1.772e+04 / 91
p0 0.02133 ± 1.605e–05
0.034
0.032
0.03
0.028
0.026
0.024
0.022
0.02
0.018

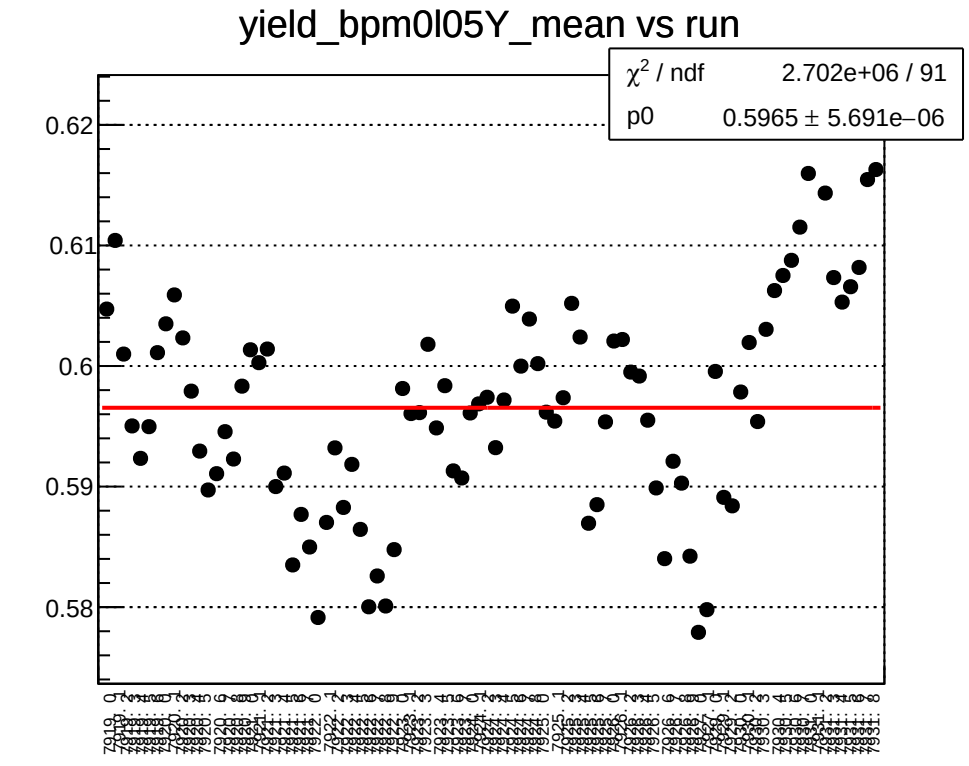

yield_bpm0l04Y_mean vs run
χ² / ndf 1.512e+06 / 91
p0 0.825 ± 5.84e−06
0.845
0.84
0.835
0.83
0.825
0.82
0.815
0.81
pull
Entries 92
Mean 599.9
Std Dev 0
300
200
100
0
−100
−200
−300
pull1D
Entries 92
Mean 1.932
Std Dev 4.134
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

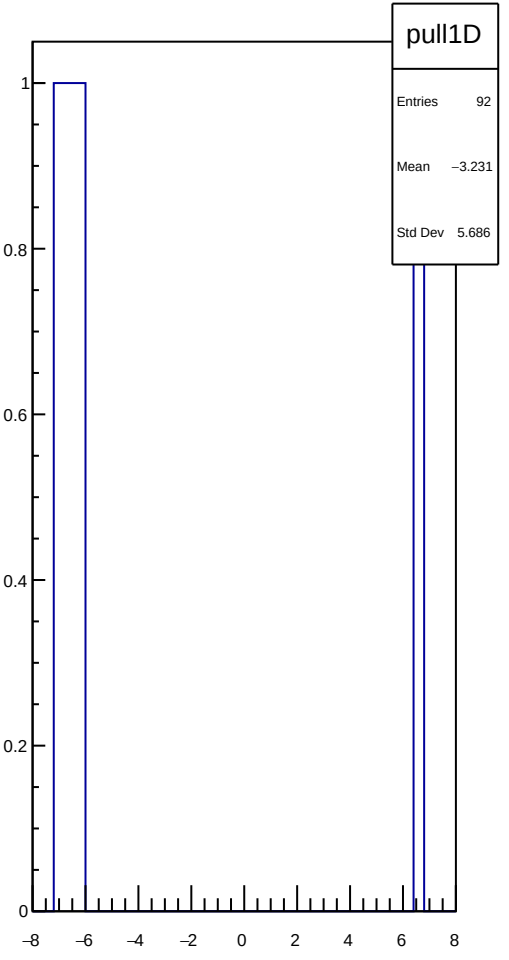

yield_bpm0l04Y_rms vs run
χ^2 / ndf 2.288e+04 / 91
p0 0.005478 ± 4.129e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005

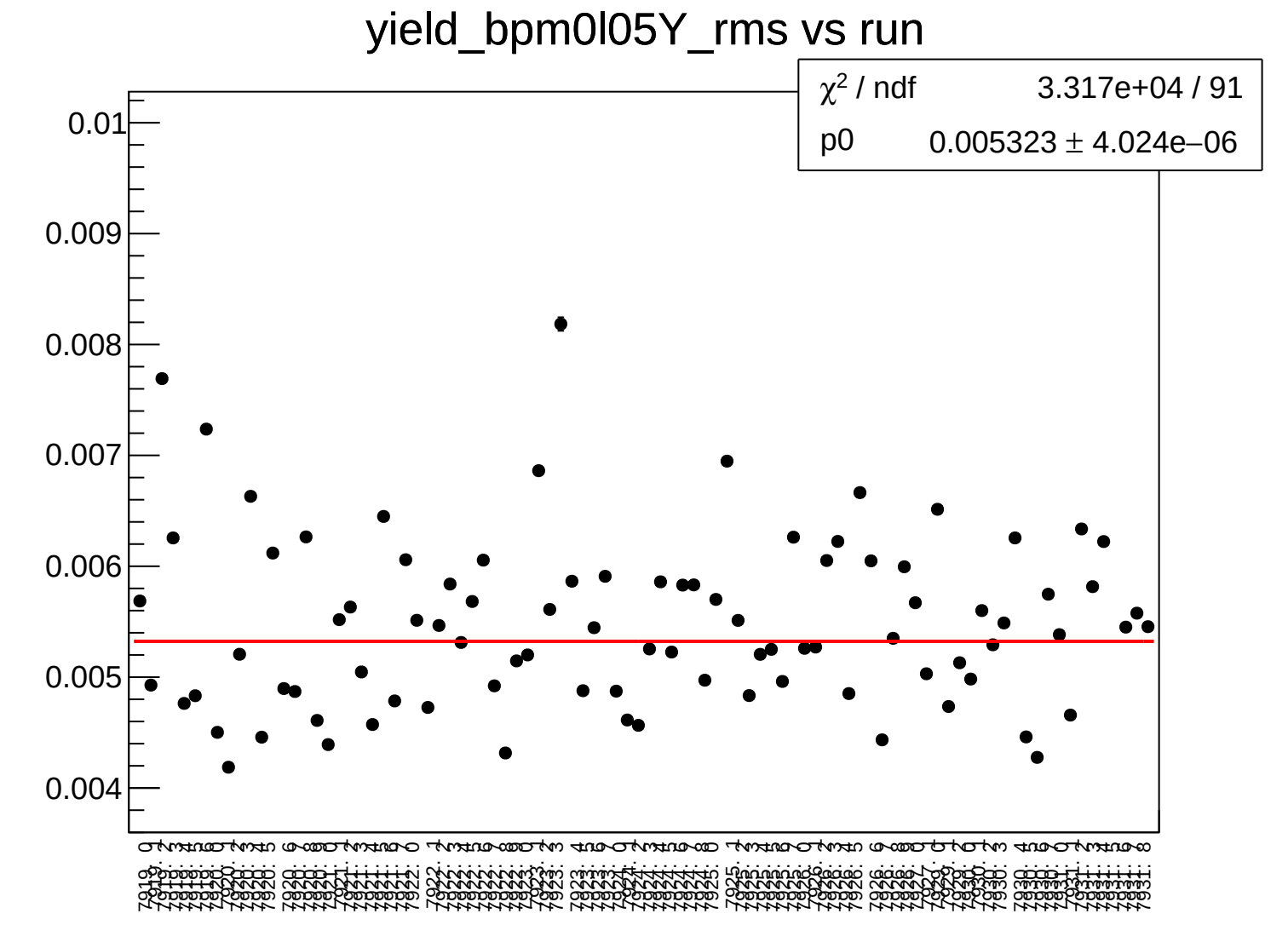

yield_bpm0l05X_mean vs run
χ² / ndf 1.316e+07 / 91
p0 0.5186 ± 3.573e−06
0.54
0.53
0.52
0.51
0.5
pull
Entries 92
Mean 530.9
Std Dev 0
600
400
200
0
−200
−400
−600

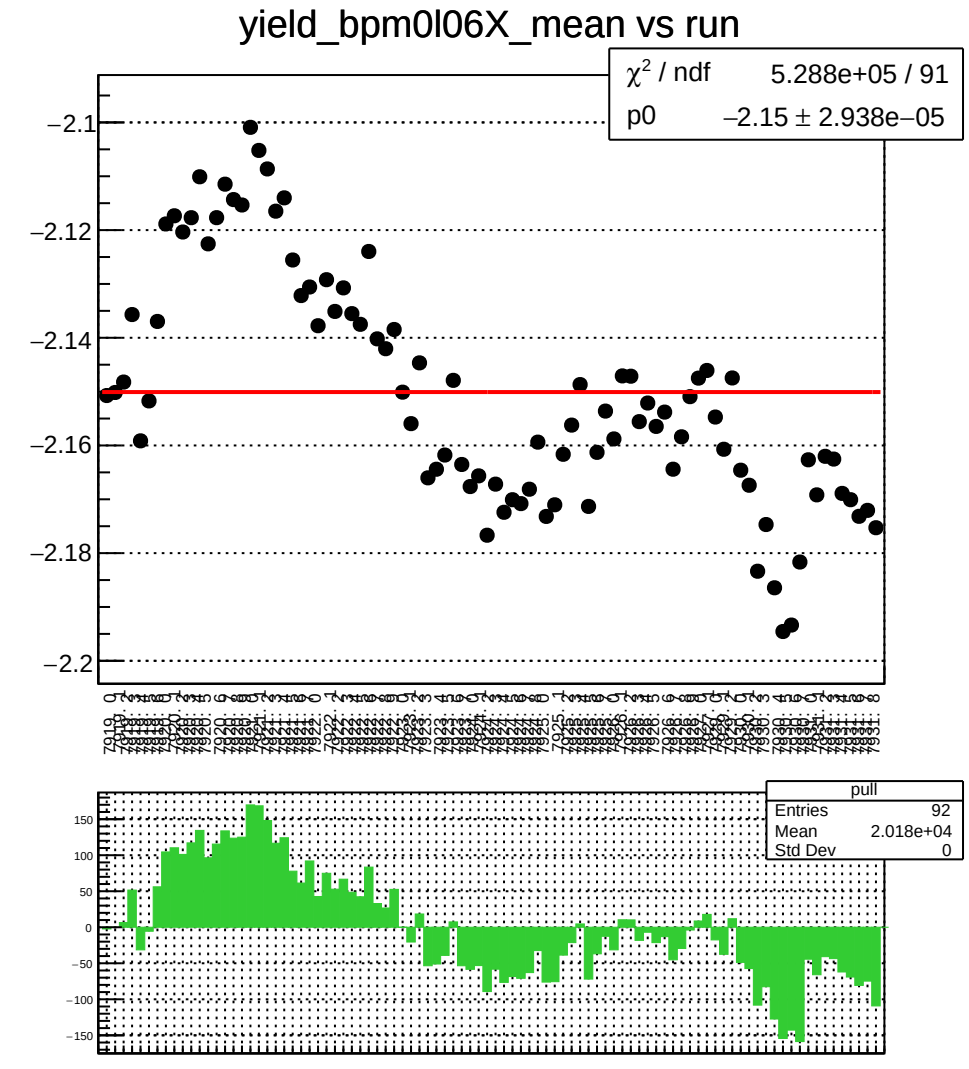

pull1D
Entries 92
Mean 5.067
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

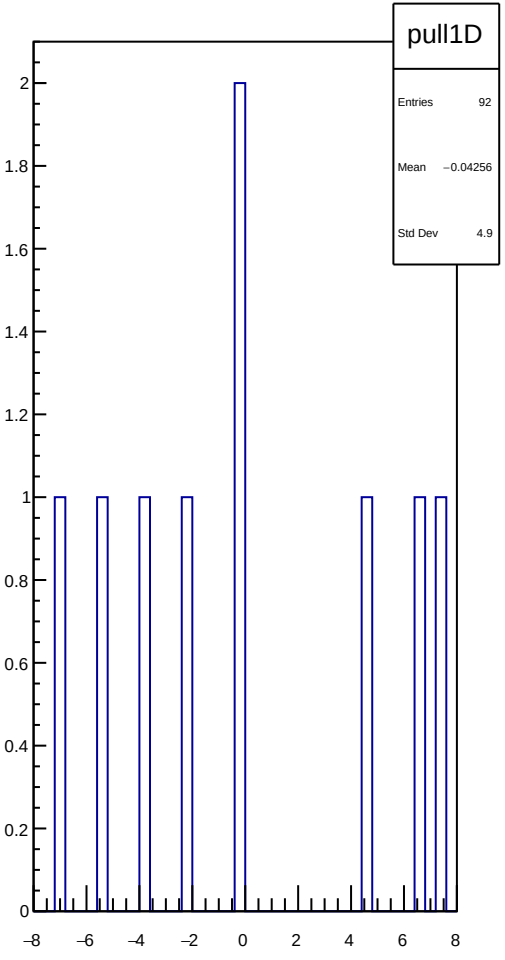

yield_bpm0l05X_rms vs run
χ² / ndf 2.425e+04 / 91
p0 0.00335 ± 2.526e–06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003

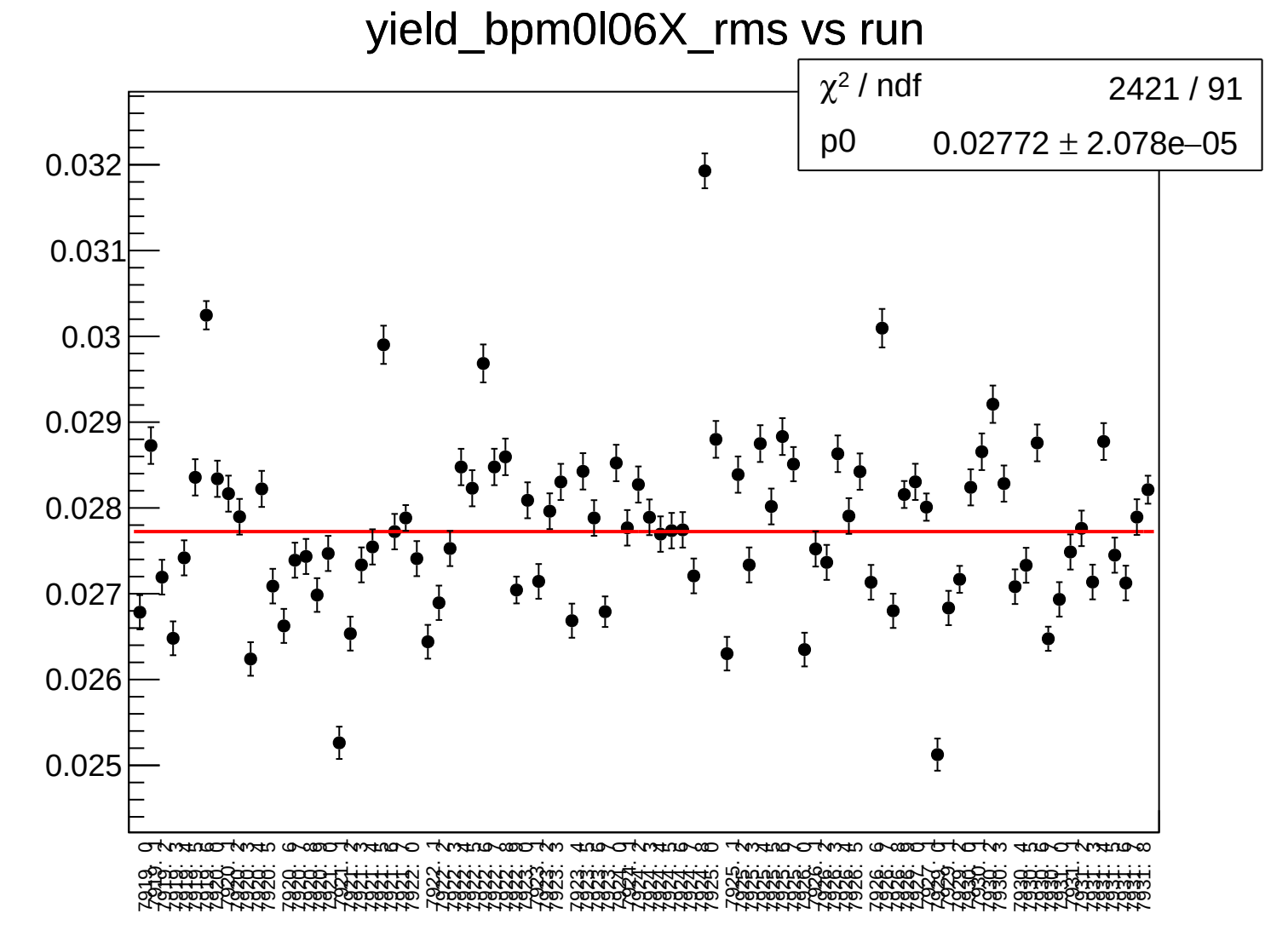

yield_bpm0l05Y_mean vs run
χ² / ndf 2.702e+06 / 91
p0 0.5965 ± 5.691e−06
0.62
0.61
0.6
0.59
0.58
pull
Entries 92
Mean 769.6
Std Dev 0
500
400
300
200
100
0
−100
−200
−300
−400

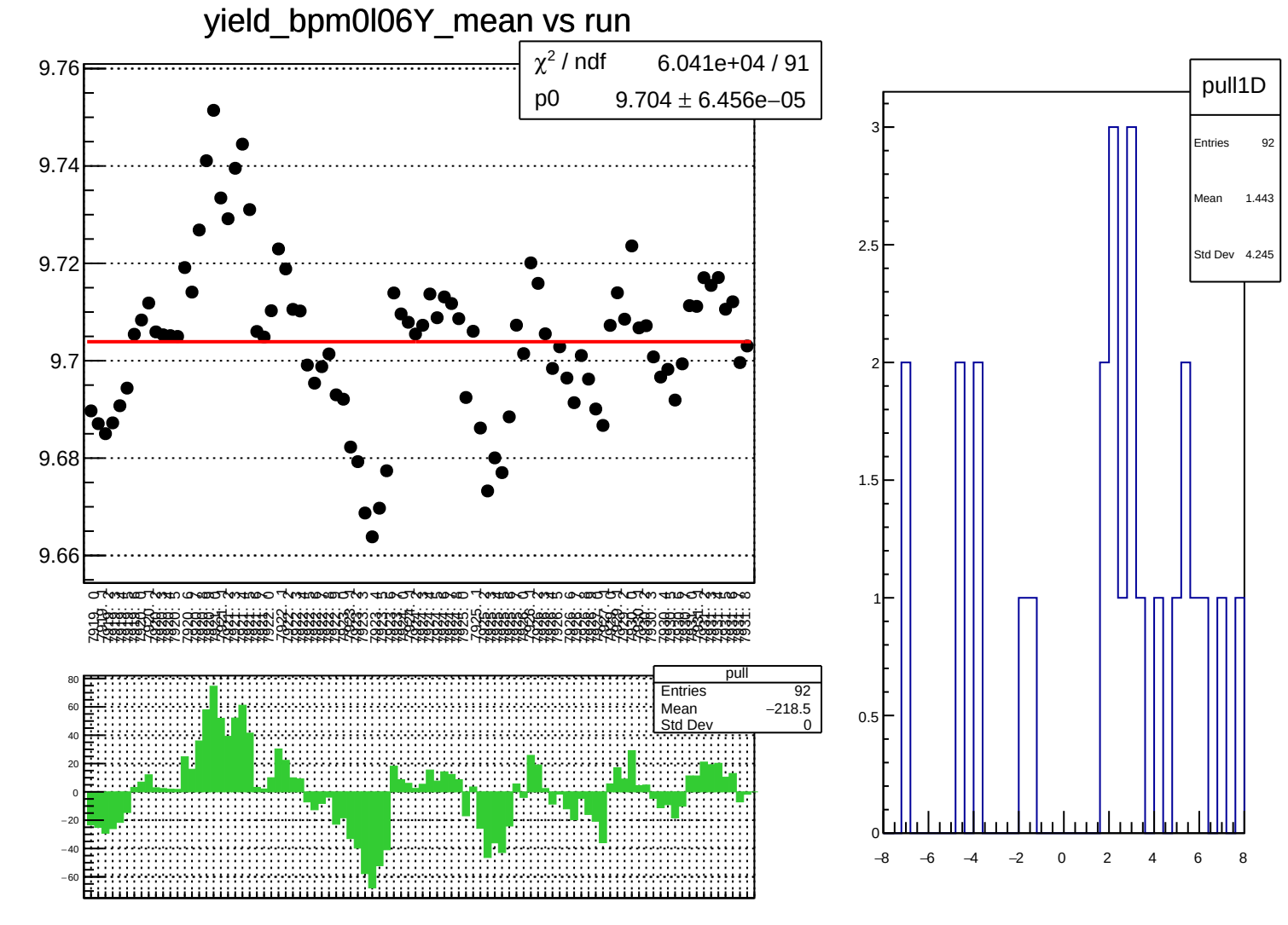

pull1D
Entries 92
Mean −3.231
Std Dev 5.686
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

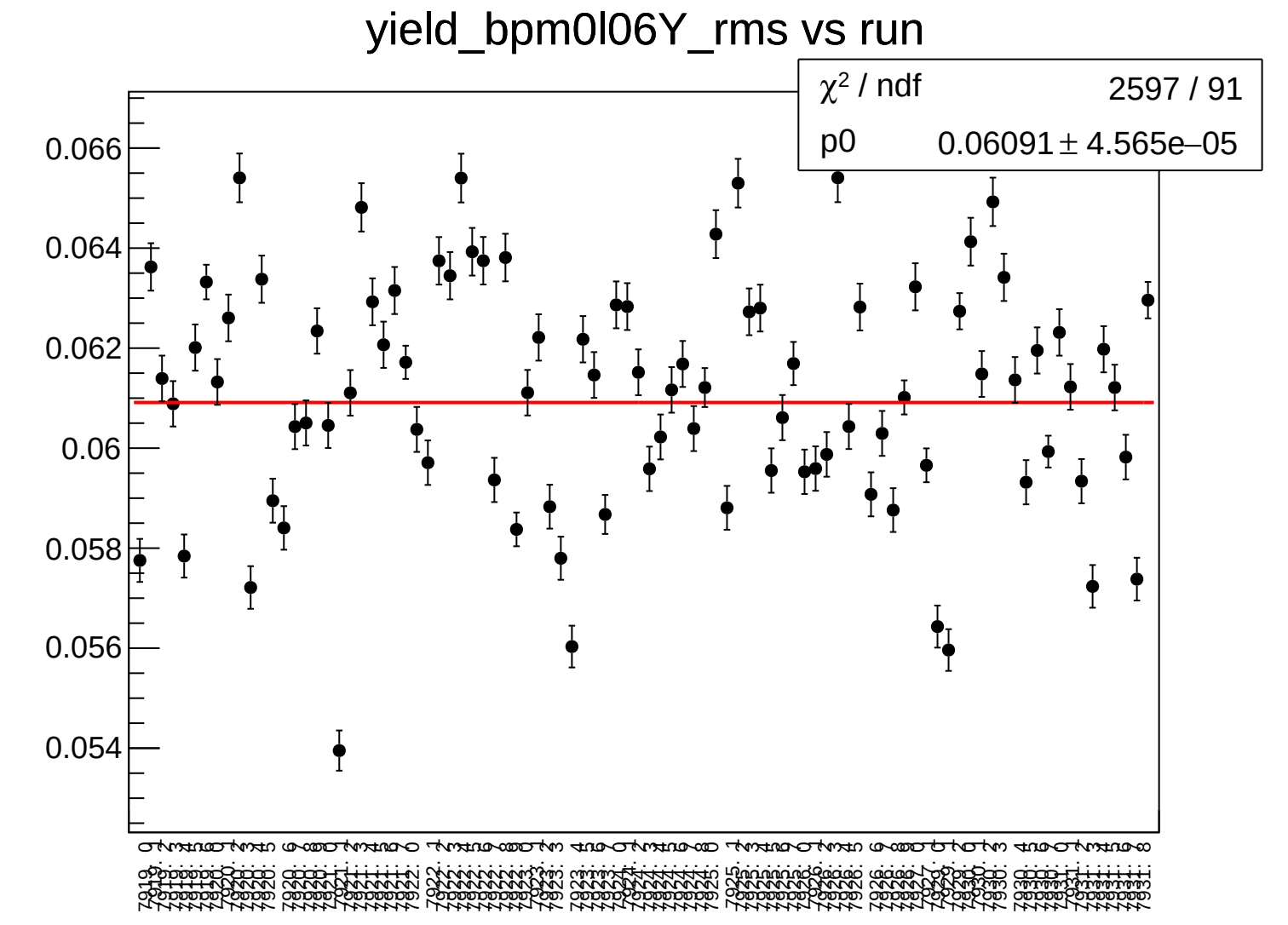

yield_bpm0l05Y_rms vs run
χ^2 / ndf 3.317e+04 / 91
p0 0.005323 ± 4.024e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004

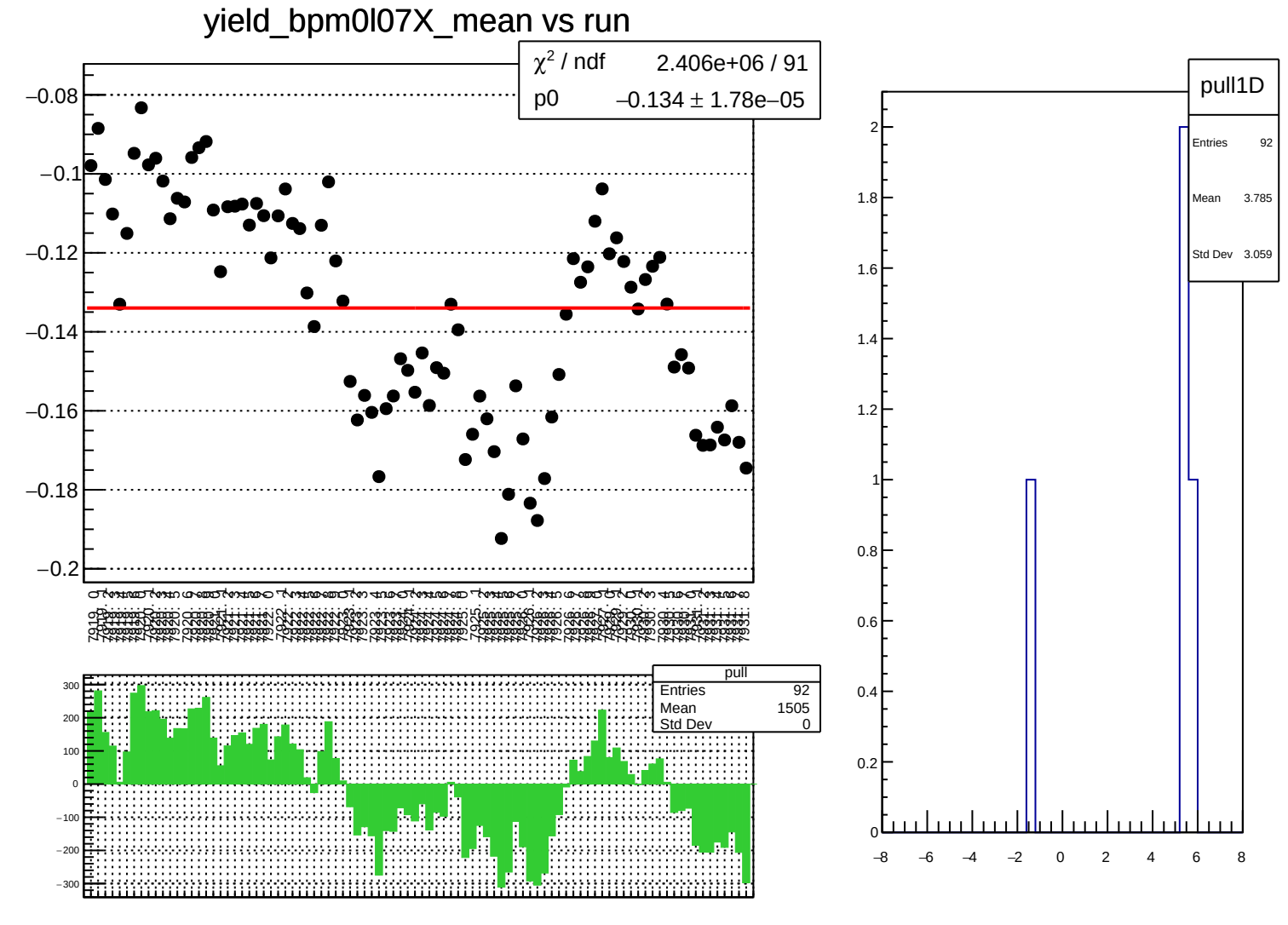

yield_bpm0l06X_mean vs run
χ² / ndf 5.288e+05 / 91
p0 −2.15 ± 2.938e−05
−2.1
−2.12
−2.14
−2.16
−2.18
−2.2
pull
Entries 92
Mean 2.018e+04
Std Dev 0
150
100
50
0
−50
−100
−150

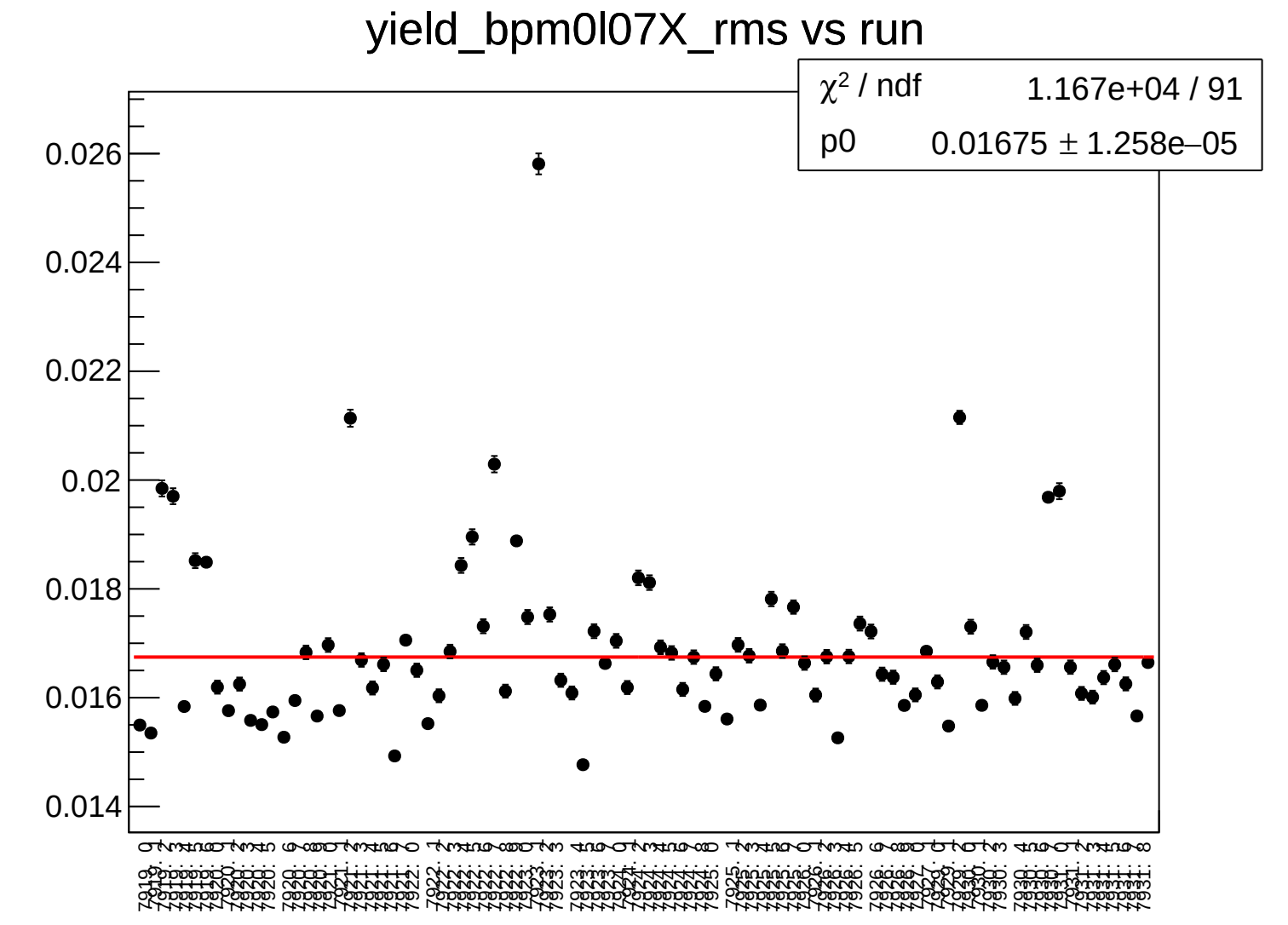

pull1D
Entries 92
Mean −0.04256
Std Dev 4.9
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

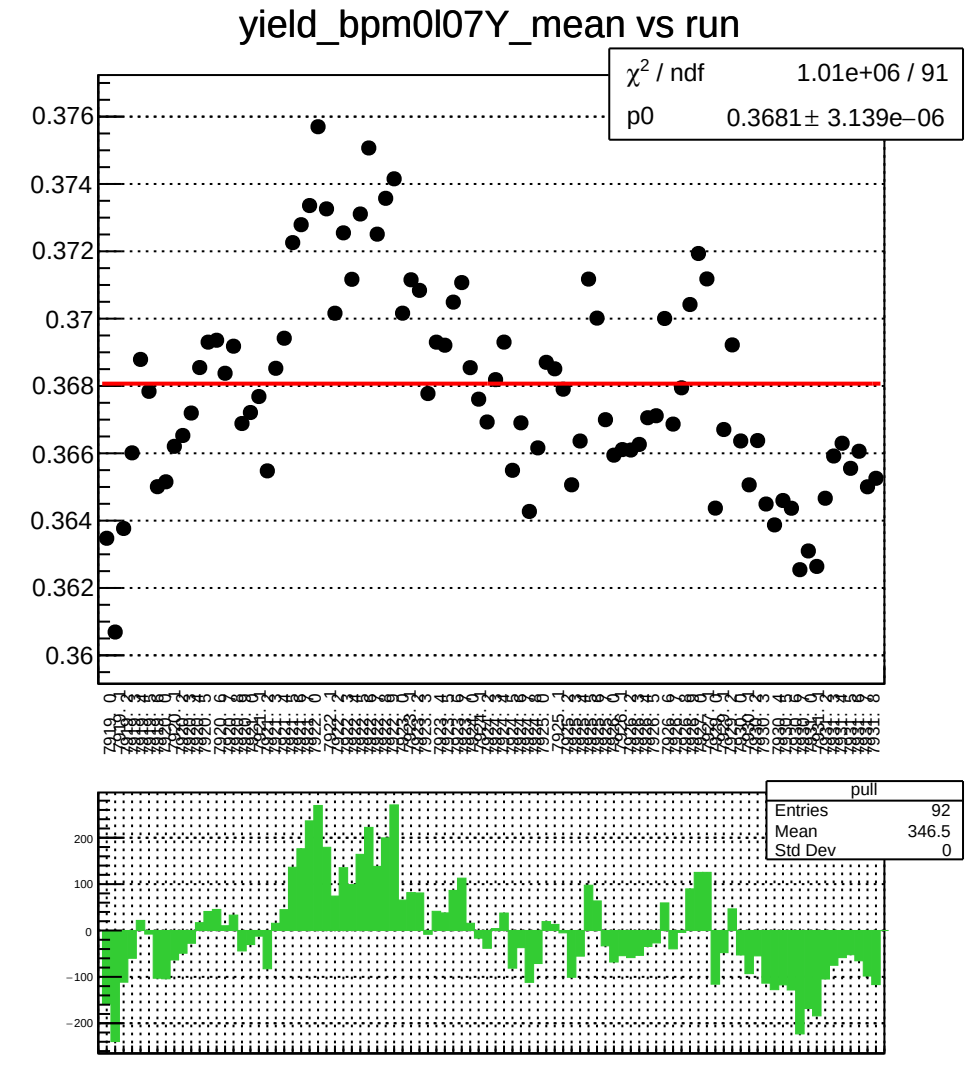

yield_bpm0l06X_rms vs run
χ² / ndf 2421 / 91
p0 0.02772 ± 2.078e–05
0.032
0.031
0.03
0.029
0.028
0.027
0.026
0.025

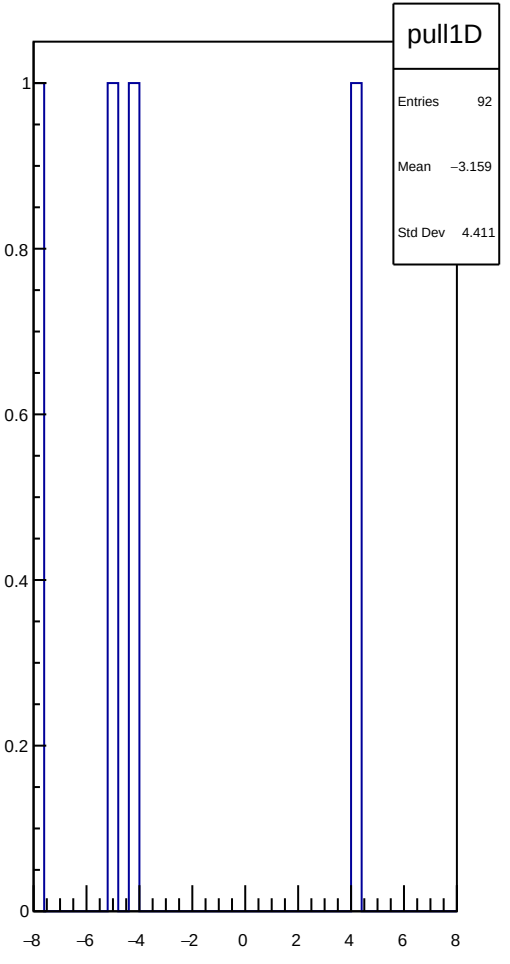

yield_bpm0l06Y_mean vs run
χ² / ndf 6.041e+04 / 91
p0 9.704 ± 6.456e−05
9.76
9.74
9.72
9.7
9.68
9.66
pull
Entries 92
Mean −218.5
Std Dev 0
80
60
40
20
0
−20
−40
−60
pull1D
Entries 92
Mean 1.443
Std Dev 4.245
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

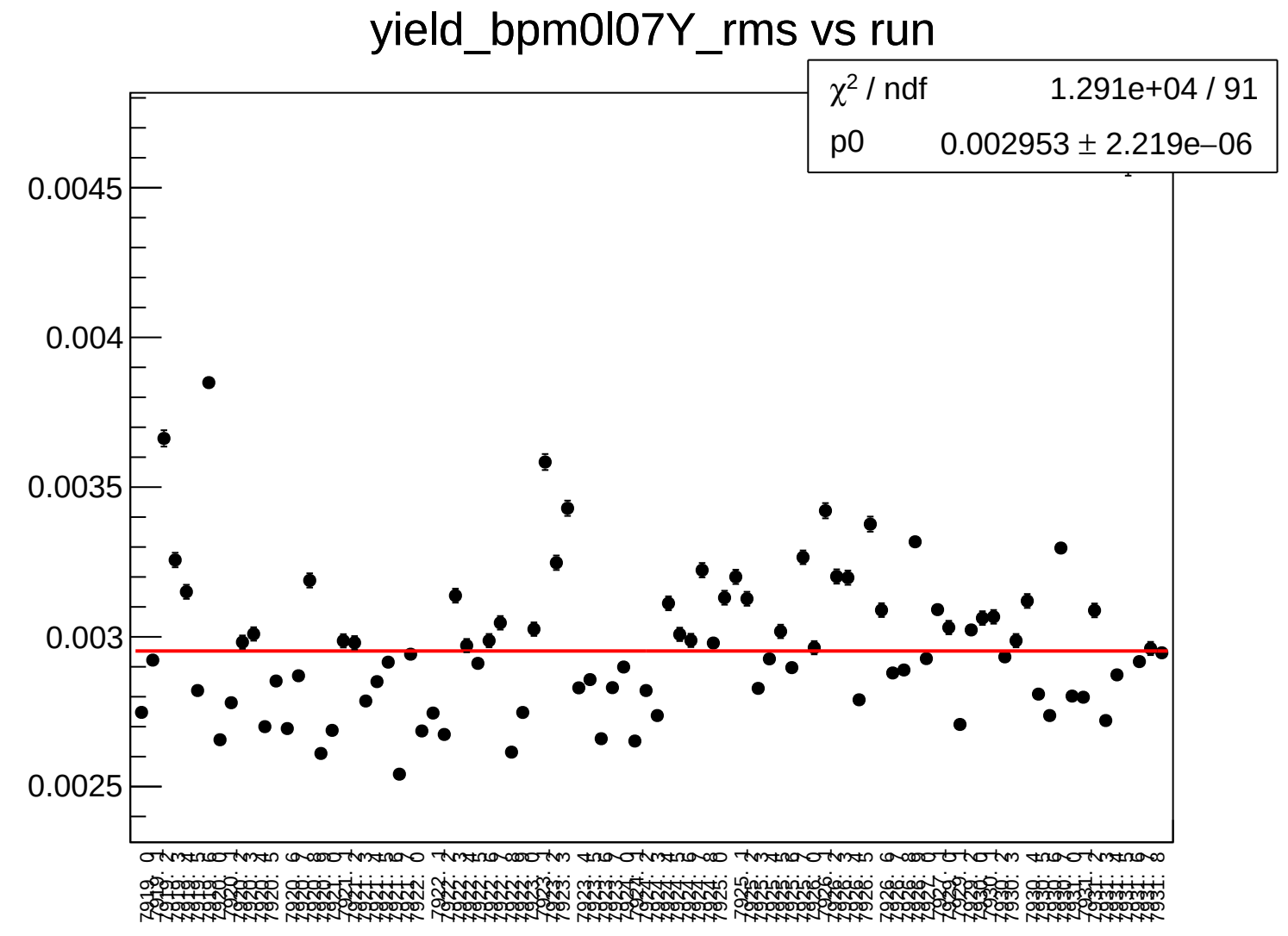

yield_bpm0l06Y_rms vs run
χ² / ndf 2597 / 91
p0 0.06091 ± 4.565e−05
0.066
0.064
0.062
0.06
0.058
0.056
0.054

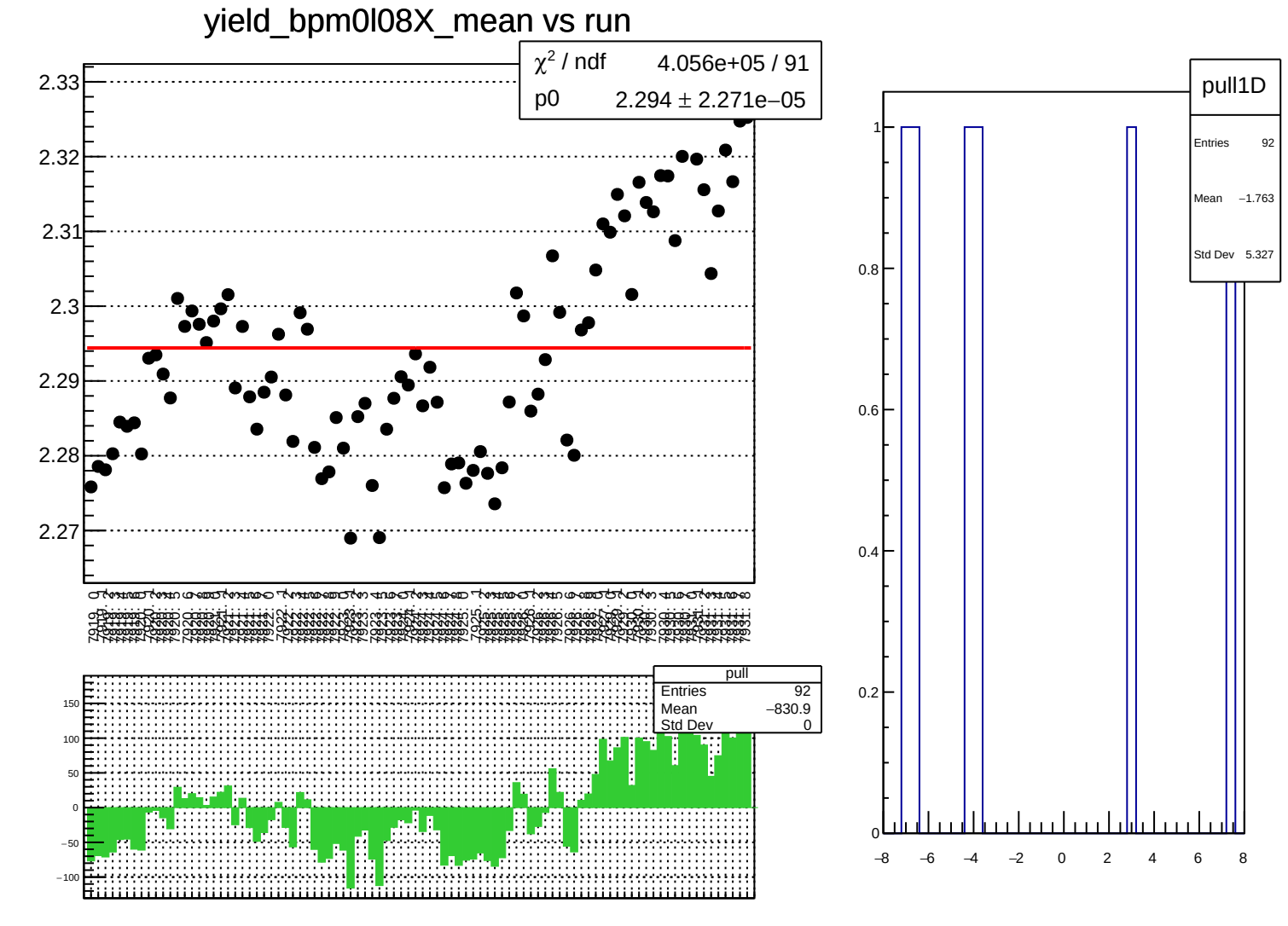

yield_bpm0l07X_mean vs run
χ² / ndf 2.406e+06 / 91
p0 −0.134 ± 1.78e−05
−0.08
−0.1
−0.12
−0.14
−0.16
−0.18
−0.2
pull
Entries 92
Mean 1505
Std Dev 0
300
200
100
0
−100
−200
−300
pull1D
Entries 92
Mean 3.785
Std Dev 3.059
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

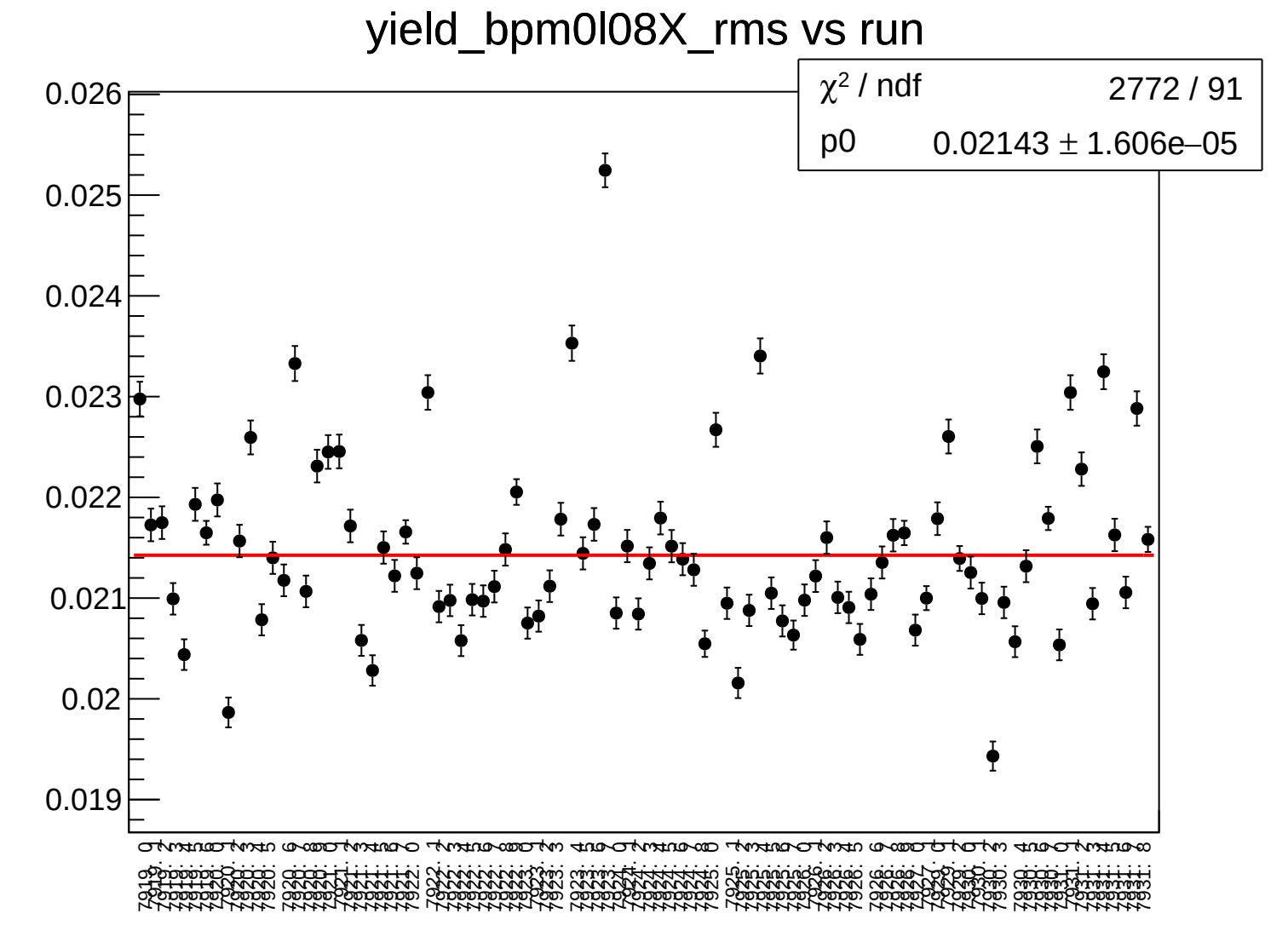

yield_bpm0l07X_rms vs run
χ² / ndf 1.167e+04 / 91
p0 0.01675 ± 1.258e–05
0.026
0.024
0.022
0.02
0.018
0.016
0.014

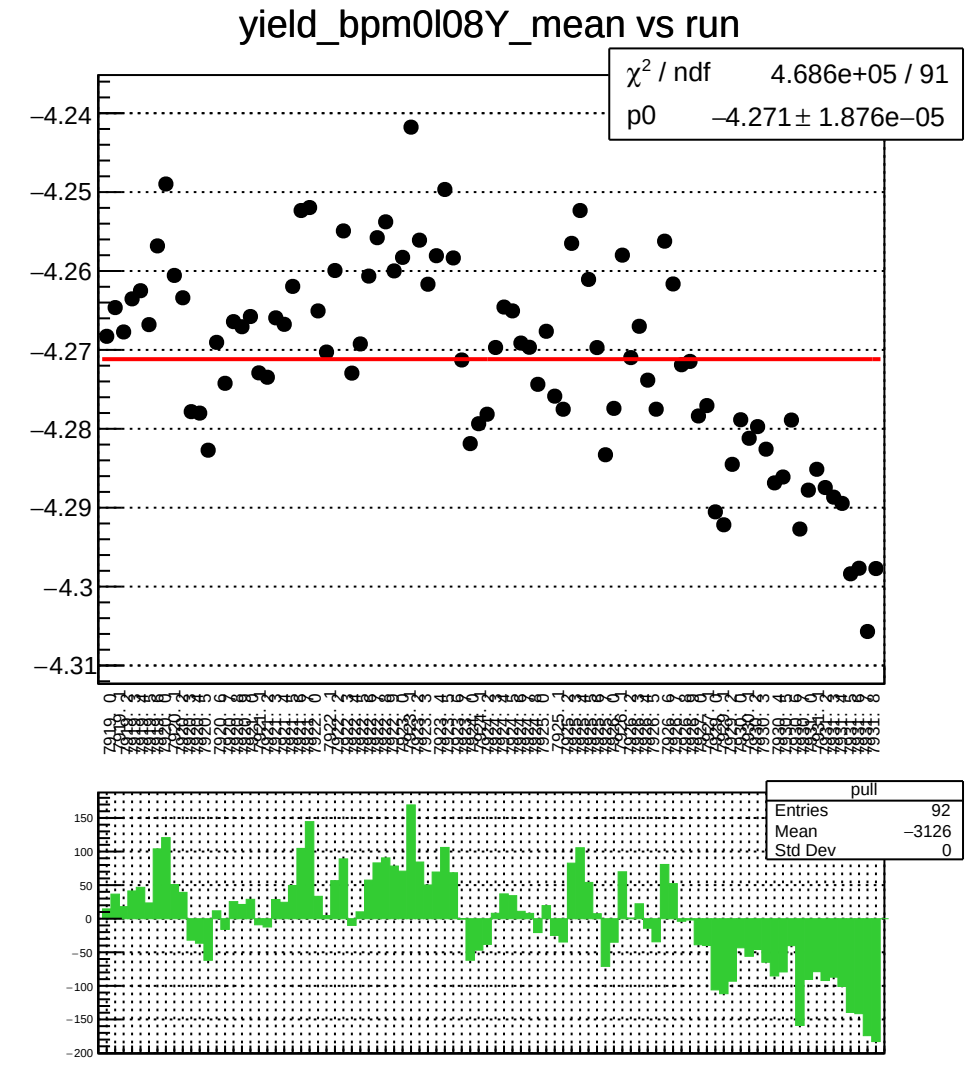

yield_bpm0l07Y_mean vs run
χ² / ndf 1.01e+06 / 91
p0 0.3681 ± 3.139e−06
0.376
0.374
0.372
0.37
0.368
0.366
0.364
0.362
0.36
pull
Entries 92
Mean 346.5
Std Dev 0
200
100
0
−100
−200

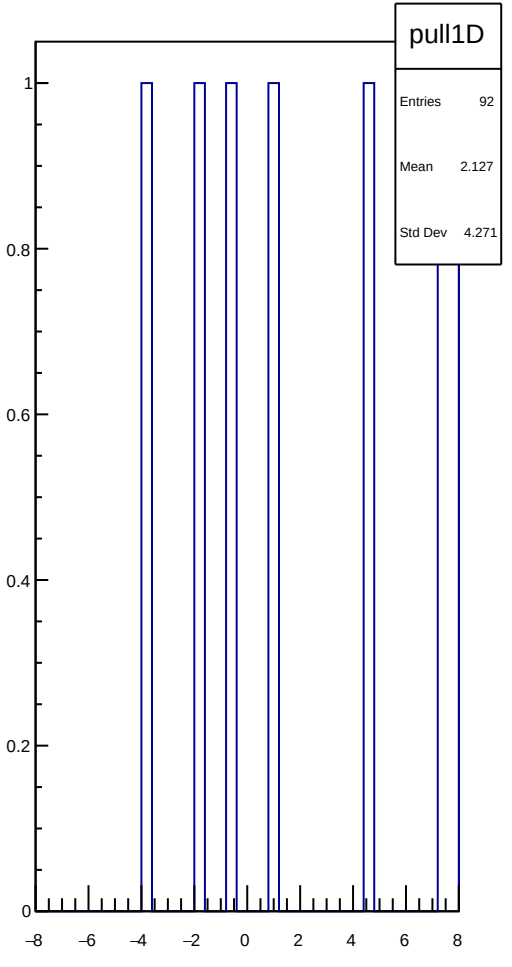

pull1D
Entries 92
Mean −3.159
Std Dev 4.411
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

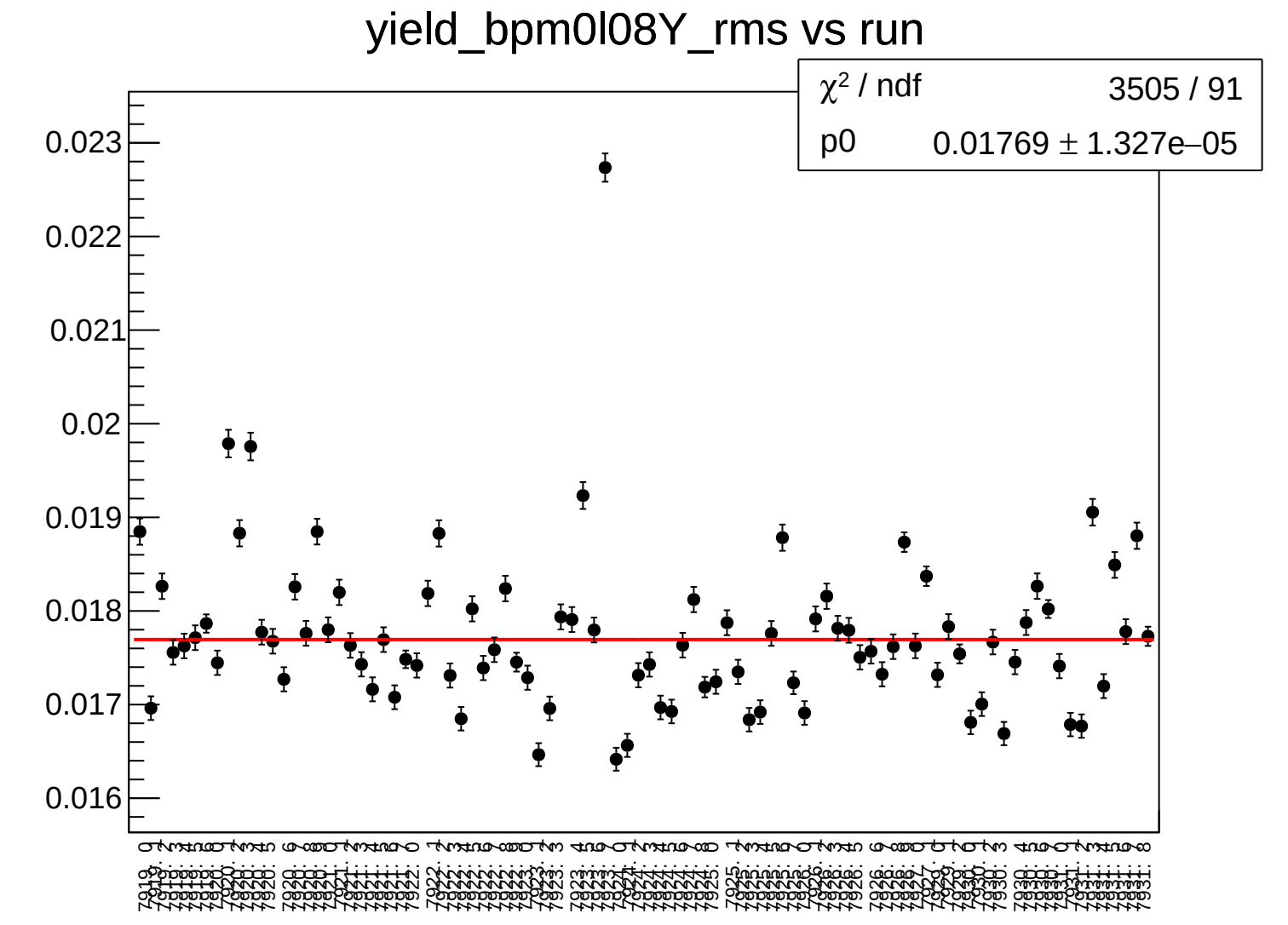

yield_bpm0l07Y_rms vs run
χ² / ndf 1.291e+04 / 91
p0 0.002953 ± 2.219e−06
0.0045
0.004
0.0035
0.003
0.0025

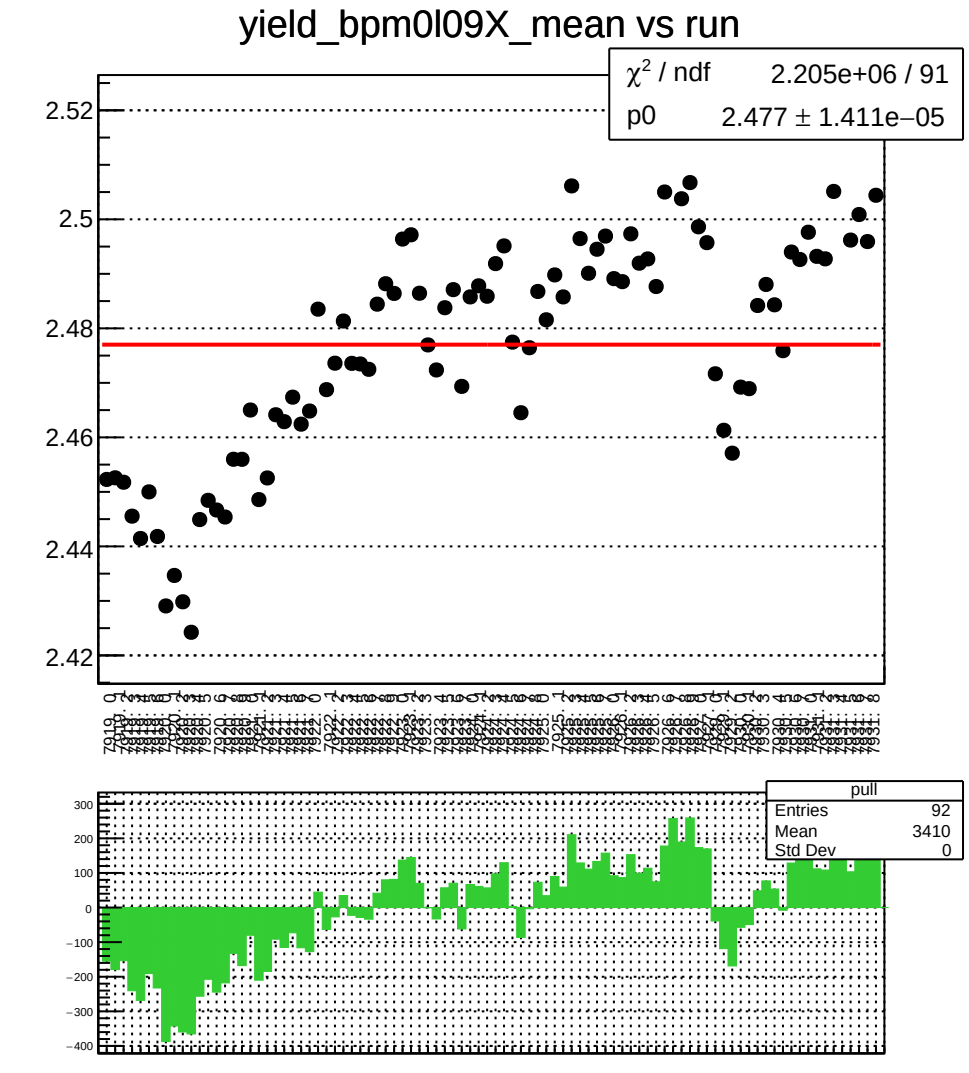

yield_bpm0l08X_mean vs run
χ² / ndf 4.056e+05 / 91
p0 2.294 ± 2.271e−05
2.33
2.32
2.31
2.3
2.29
2.28
2.27
pull
Entries 92
Mean −830.9
Std Dev 0
150
100
50
0
−50
−100
pull1D
Entries 92
Mean −1.763
Std Dev 5.327
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

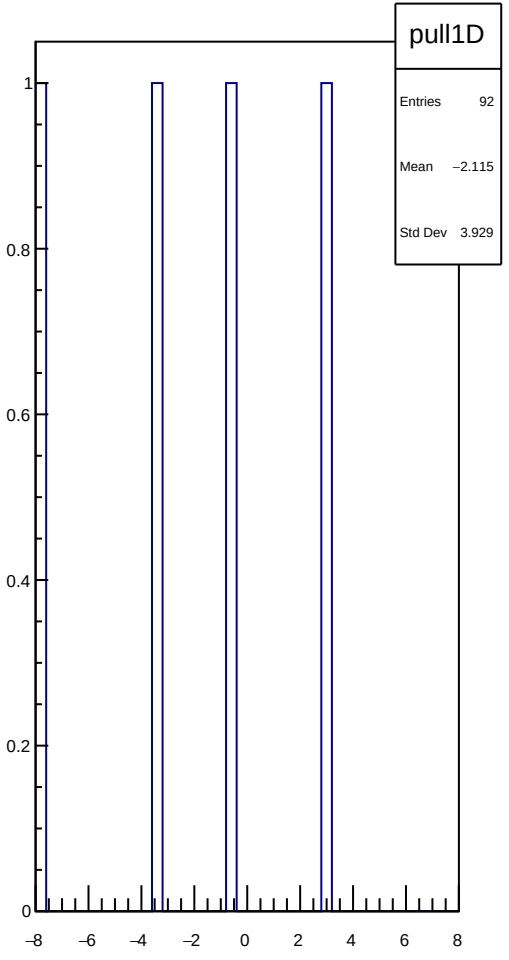

yield_bpm0l08X_rms vs run
χ² / ndf 2772 / 91
p0 0.02143 ± 1.606e–05
0.026
0.025
0.024
0.023
0.022
0.021
0.02
0.019

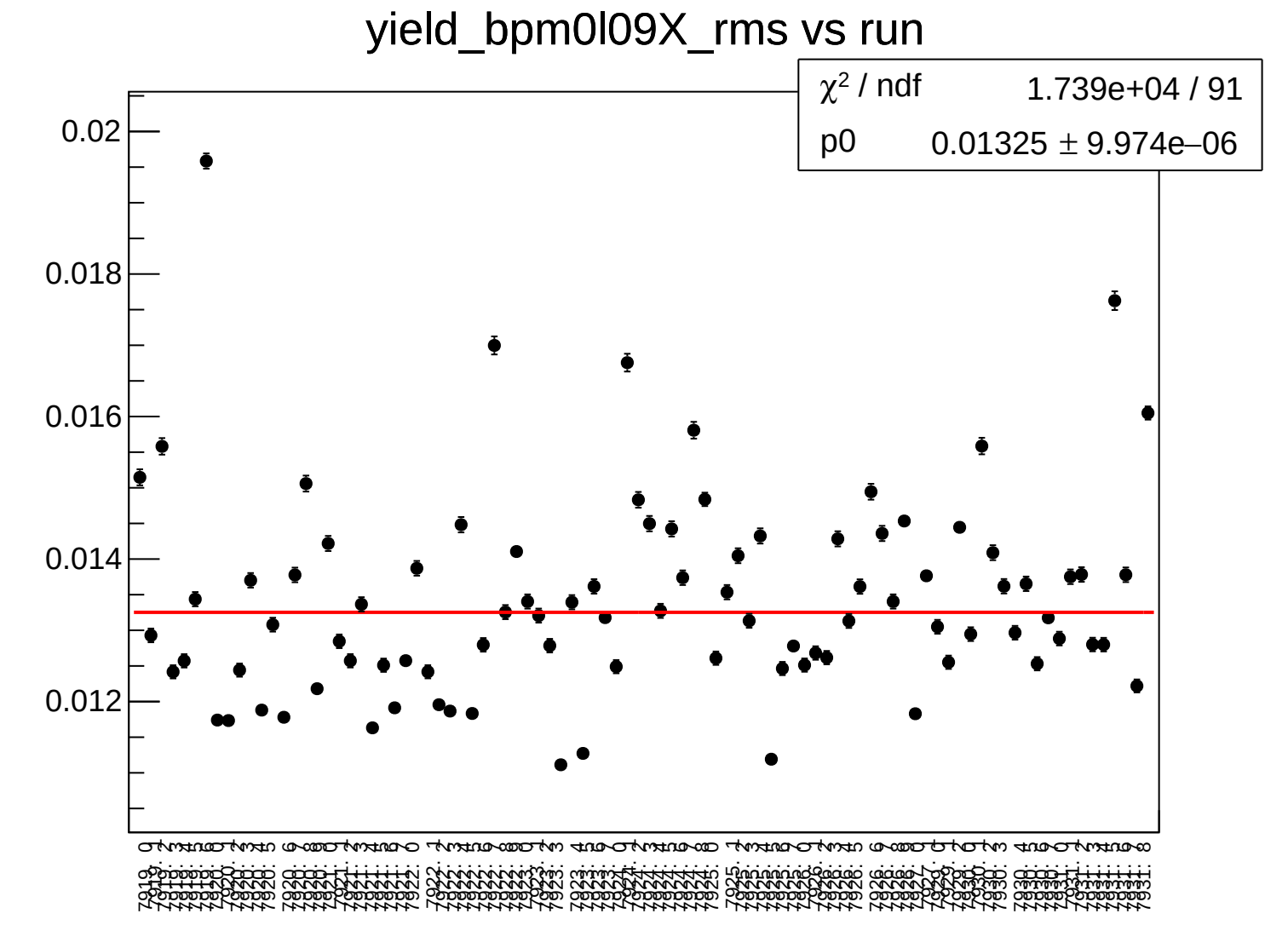

yield_bpm0l08Y_mean vs run
χ² / ndf 4.686e+05 / 91
p0 −4.271 ± 1.876e−05
−4.24
−4.25
−4.26
−4.27
−4.28
−4.29
−4.3
−4.31
pull
Entries 92
Mean −3126
Std Dev 0
150
100
50
0
−50
−100
−150
−200

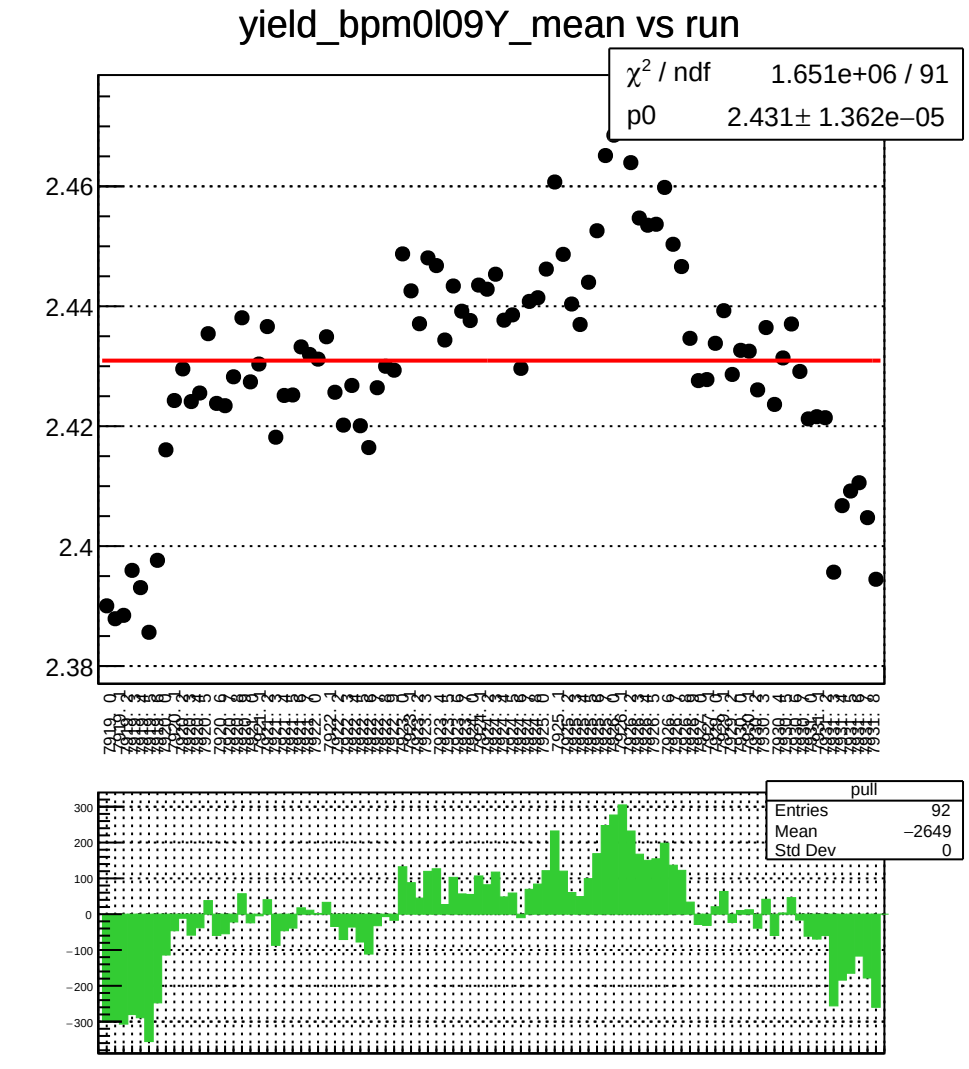

pull1D
Entries 92
Mean 2.127
Std Dev 4.271
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

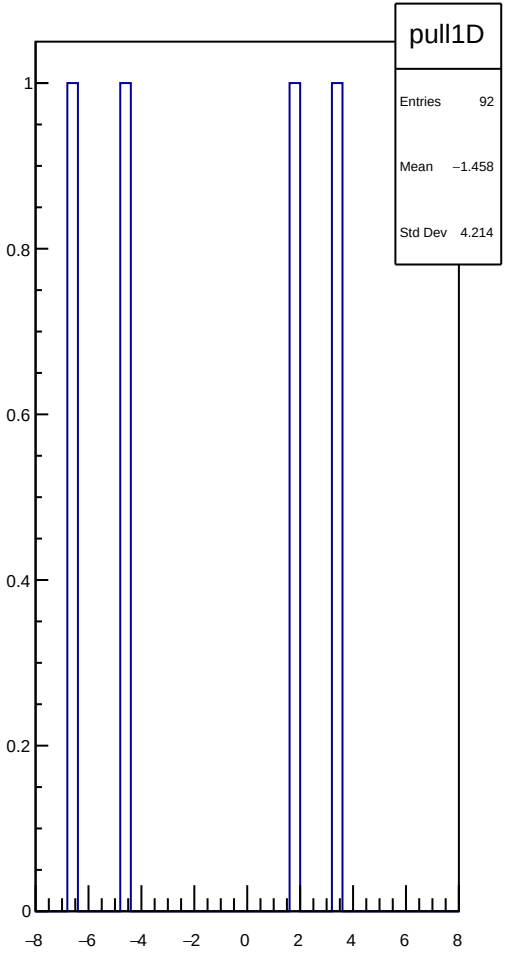

yield_bpm0l08Y_rms vs run
χ² / ndf 3505 / 91
p0 0.01769 ± 1.327e−05
0.023
0.022
0.021
0.02
0.019
0.018
0.017
0.016

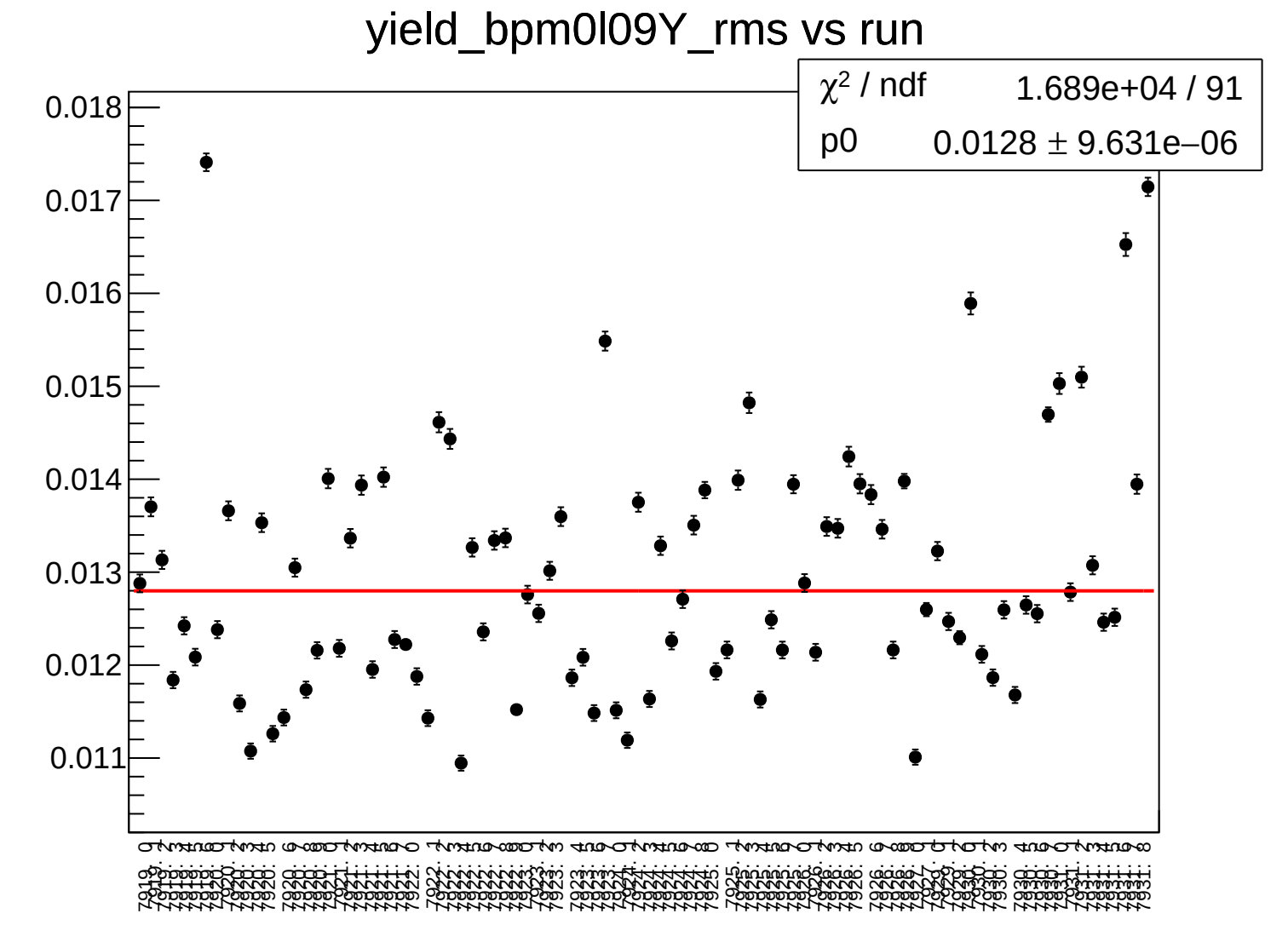

yield_bpm0l09X_mean vs run
χ² / ndf 2.205e+06 / 91
p0 2.477 ± 1.411e−05
2.52
2.5
2.48
2.46
2.44
2.42
pull
Entries 92
Mean 3410
Std Dev 0
300
200
100
0
−100
−200
−300
−400

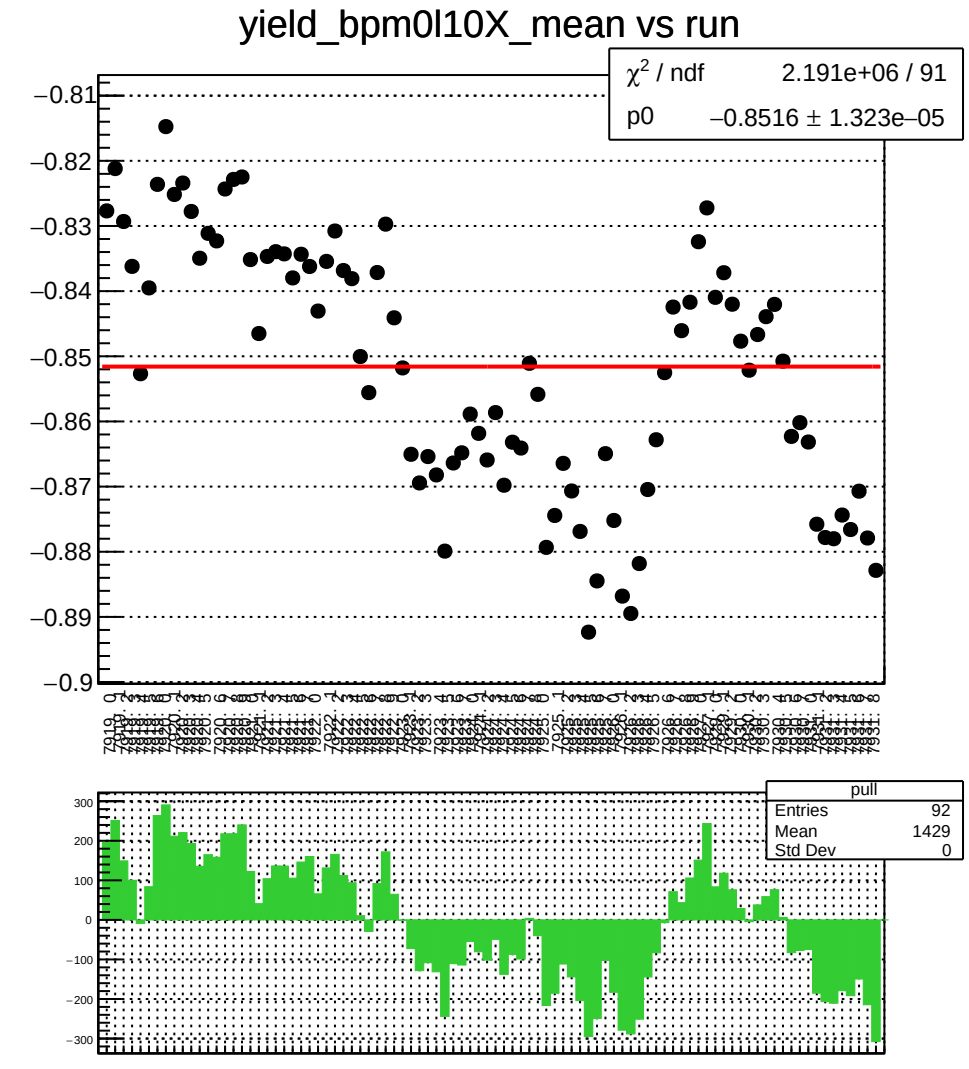

pull1D
Entries 92
Mean −2.115
Std Dev 3.929
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

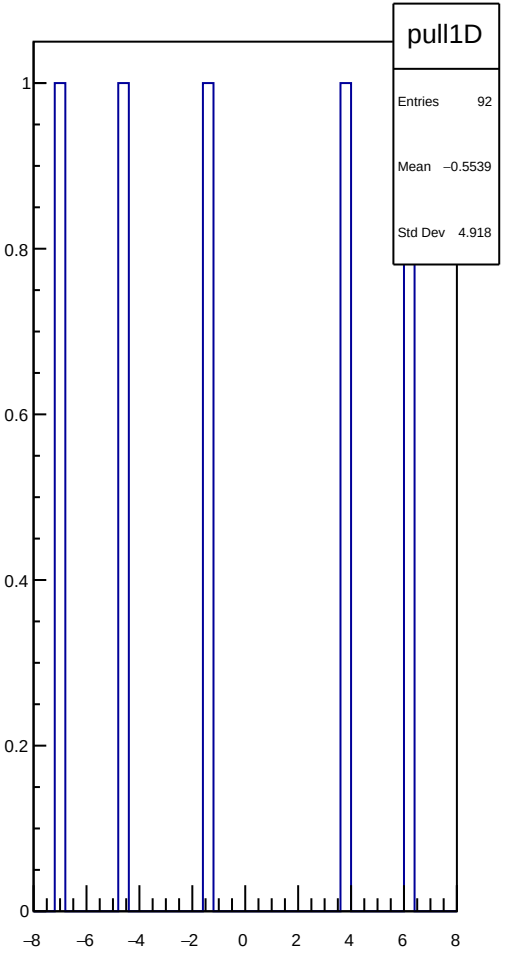

yield_bpm0l09X_rms vs run
χ² / ndf 1.739e+04 / 91
p0 0.01325 ± 9.974e–06
0.02
0.018
0.016
0.014
0.012

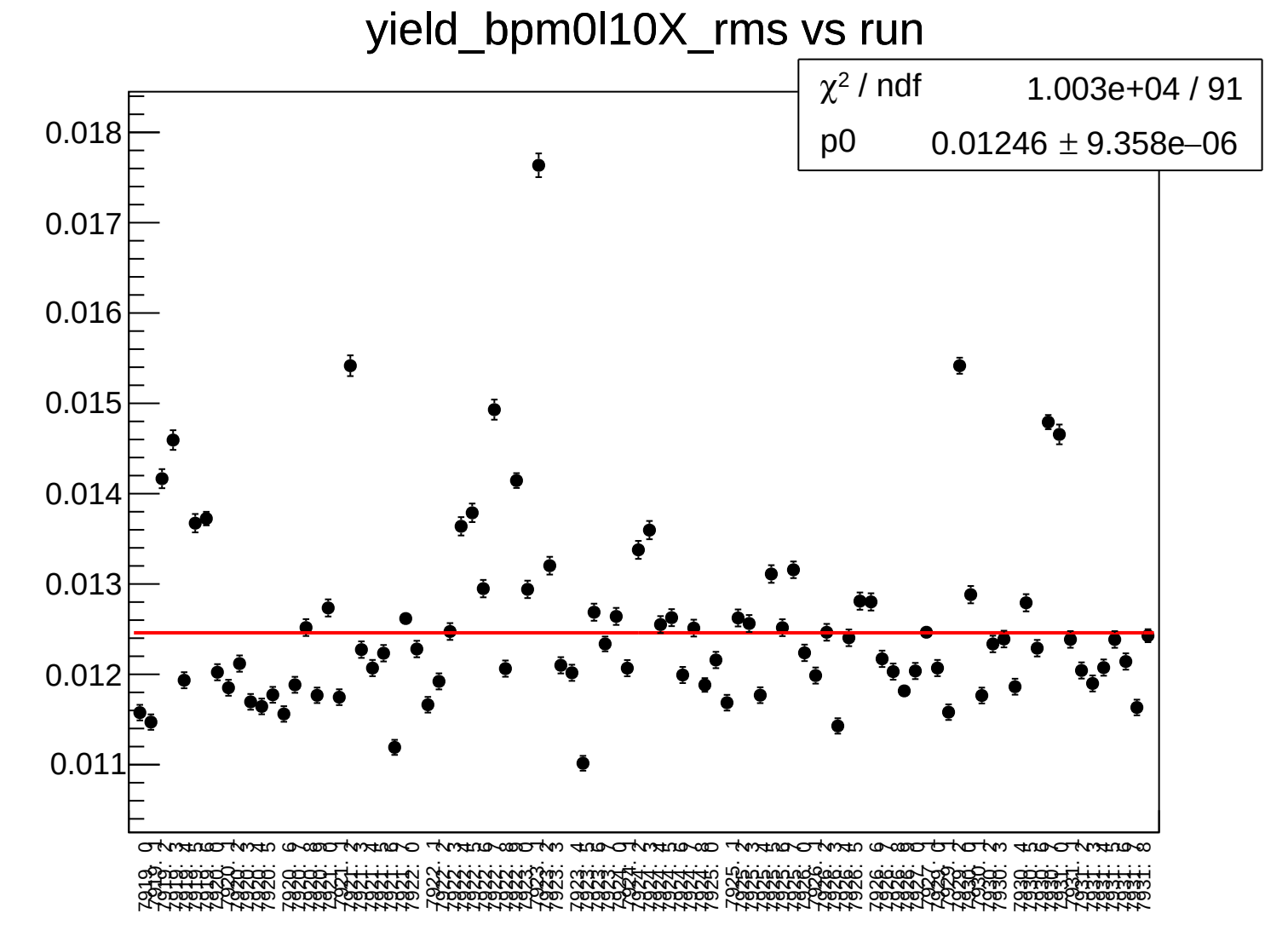

yield_bpm0l09Y_mean vs run
χ² / ndf 1.651e+06 / 91
p0 2.431± 1.362e−05
2.46
2.44
2.42
2.4
2.38
pull
Entries 92
Mean −2649
Std Dev 0
300
200
100
0
−100
−200
−300

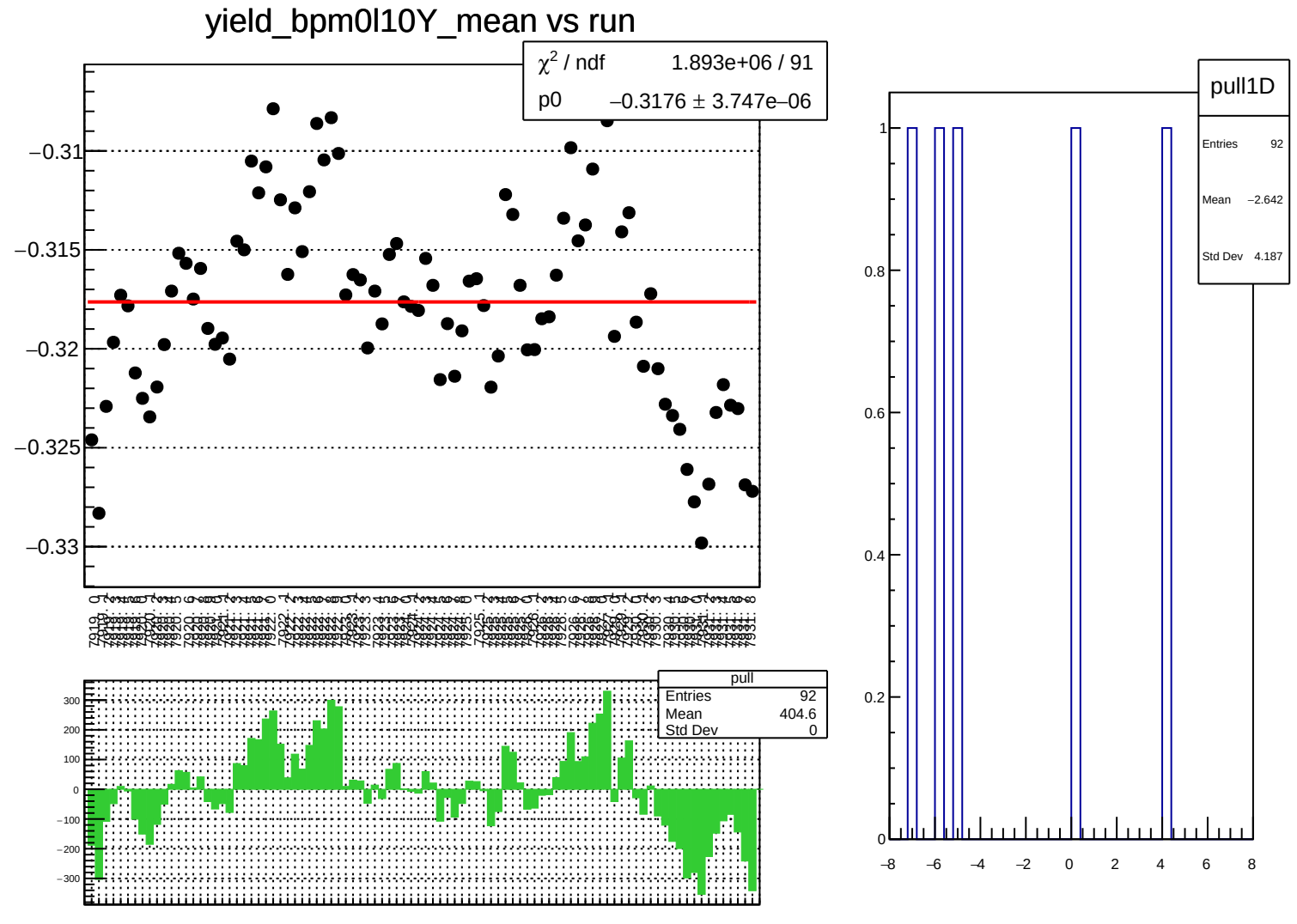

pull1D
Entries 92
Mean −1.458
Std Dev 4.214
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

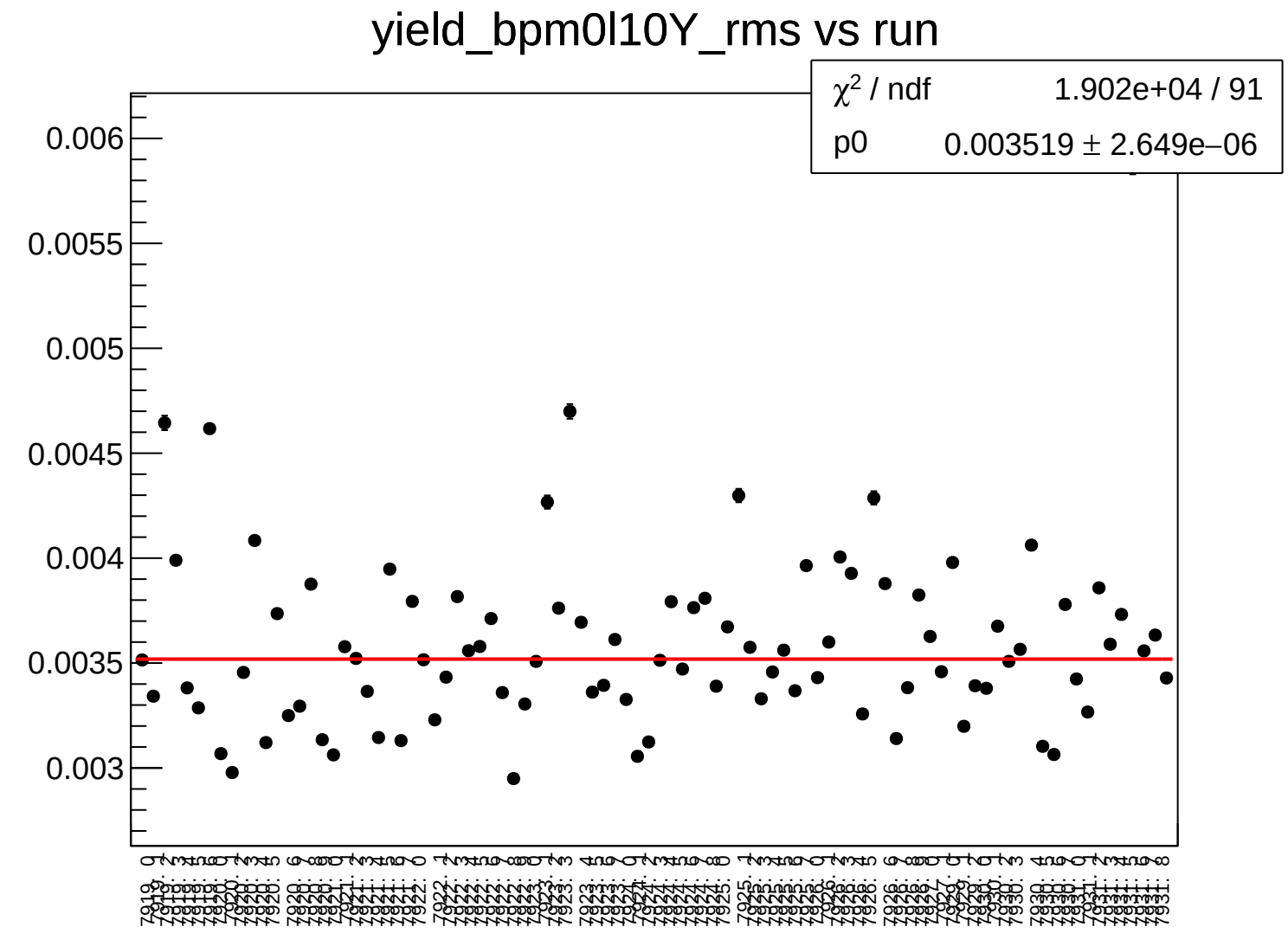

yield_bpm0l09Y_rms vs run
χ² / ndf 1.689e+04 / 91
p0 0.0128 ± 9.631e−06
0.018
0.017
0.016
0.015
0.014
0.013
0.012
0.011

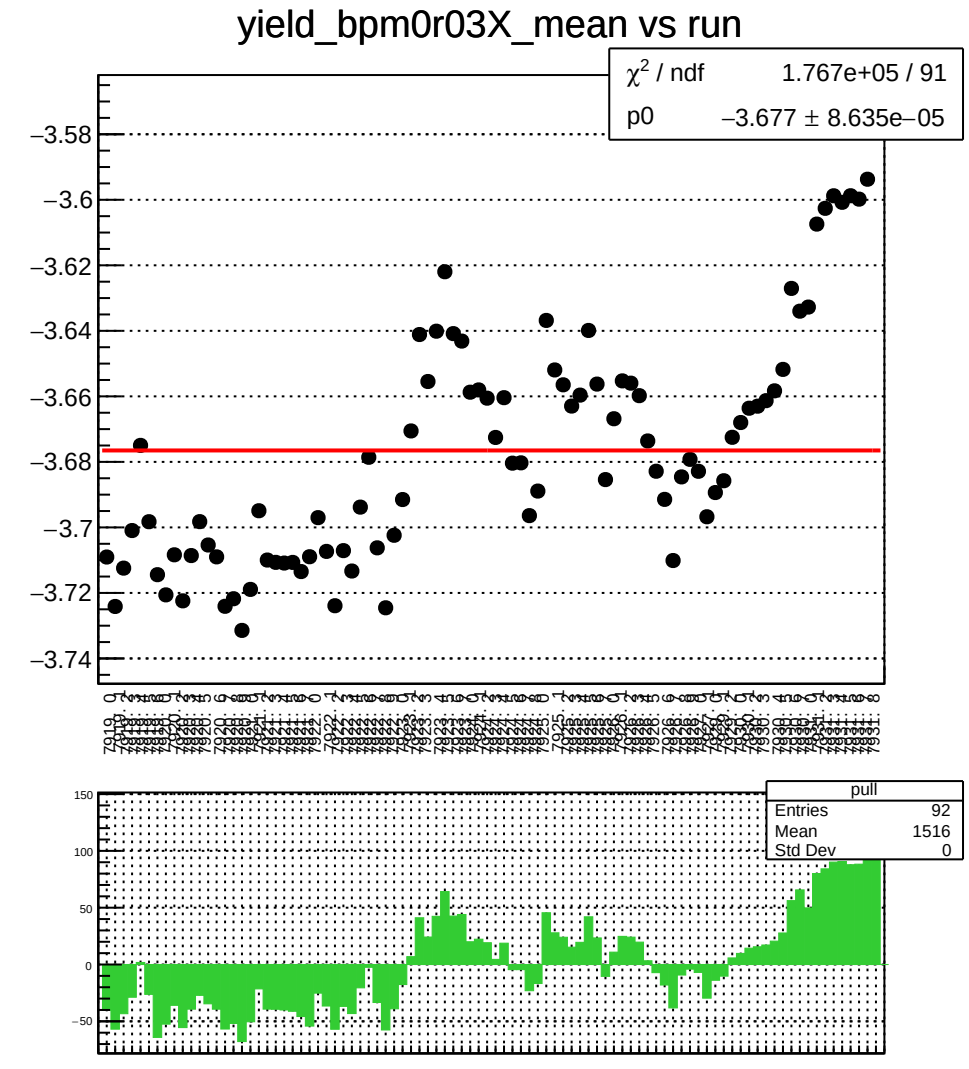

yield_bpm0l10X_mean vs run
χ² / ndf 2.191e+06 / 91
p0 −0.8516 ± 1.323e−05
pull
Entries 92
Mean 1429
Std Dev 0

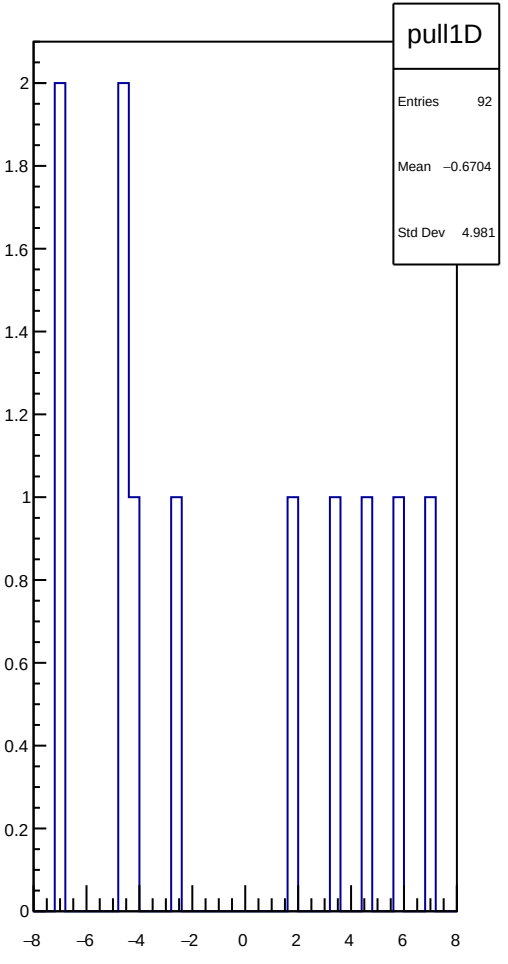

pull1D
Entries 92
Mean −0.5539
Std Dev 4.918

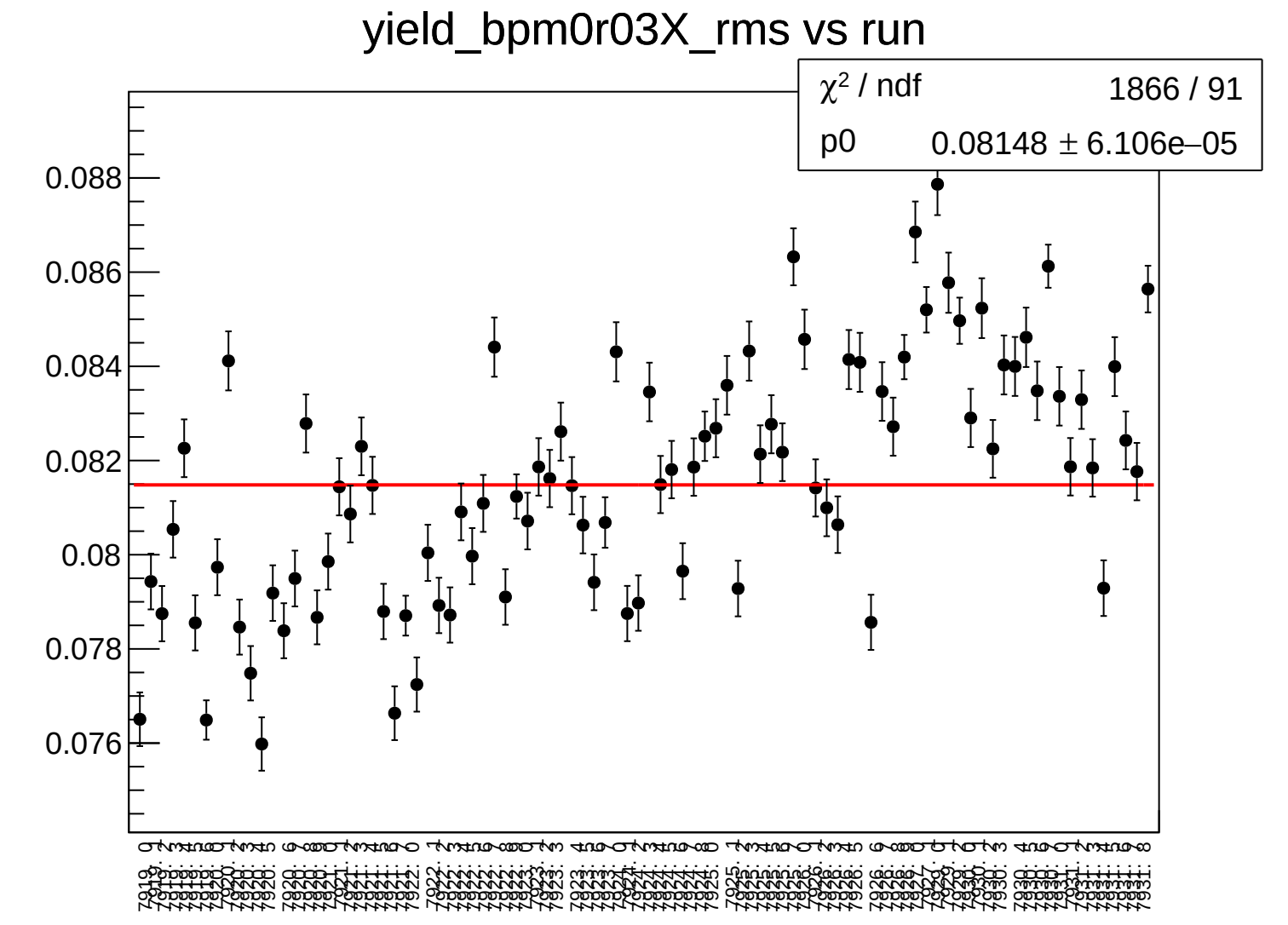

yield_bpm0l10X_rms vs run
χ² / ndf 1.003e+04 / 91
p0 0.01246 ± 9.358e–06
0.018
0.017
0.016
0.015
0.014
0.013
0.012
0.011

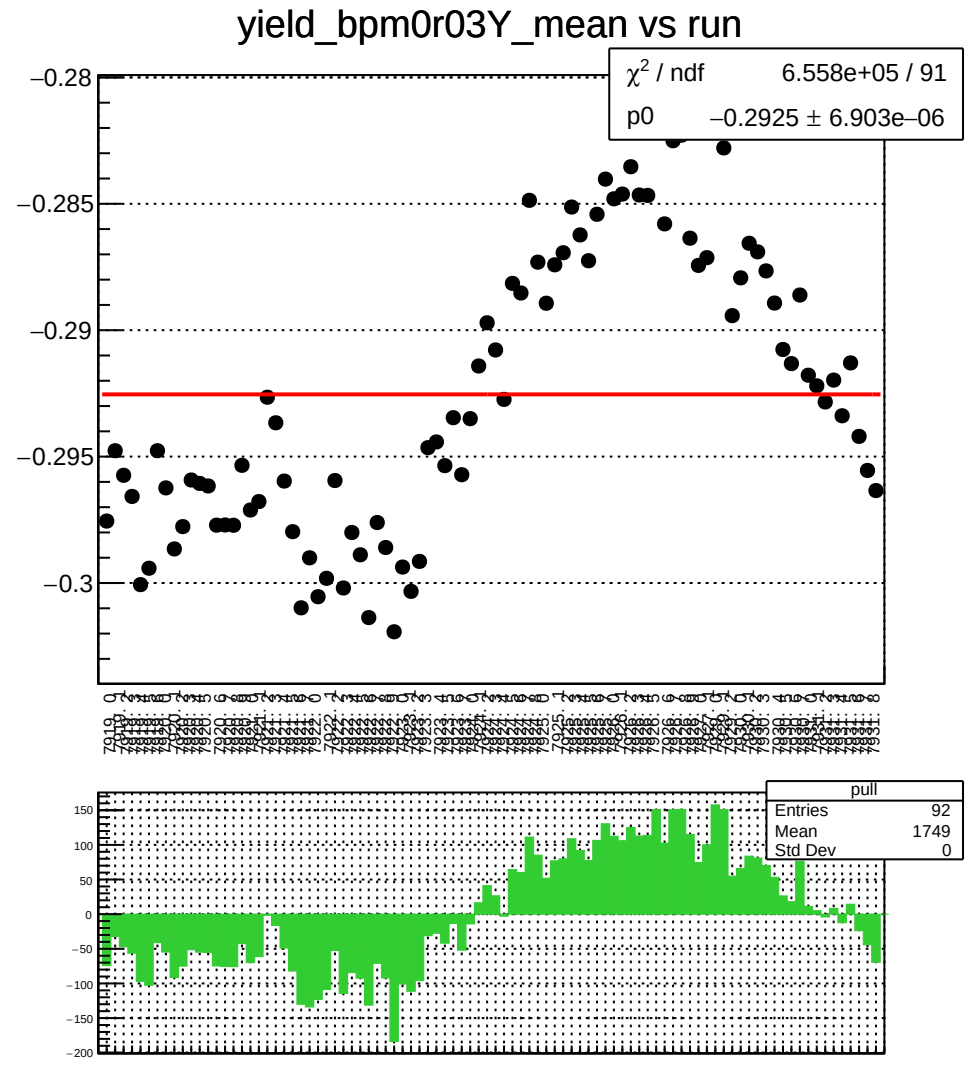

yield_bpm0l10Y_mean vs run
χ² / ndf 1.893e+06 / 91
p0 −0.3176 ± 3.747e−06
−0.31
−0.315
−0.32
−0.325
−0.33
pull
Entries 92
Mean 404.6
Std Dev 0
300
200
100
0
−100
−200
−300
pull1D
Entries 92
Mean −2.642
Std Dev 4.187
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

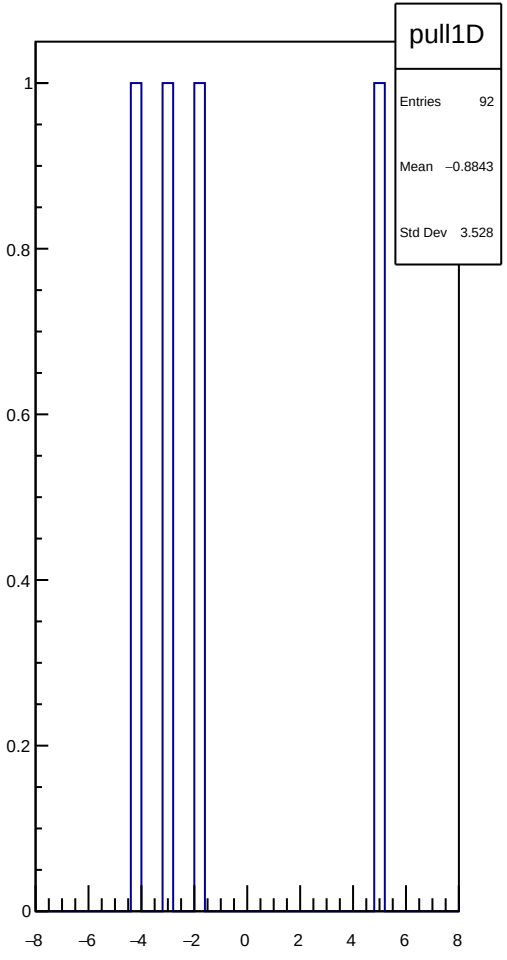

yield_bpm0l10Y_rms vs run
χ² / ndf 1.902e+04 / 91
p0 0.003519 ± 2.649e−06
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003

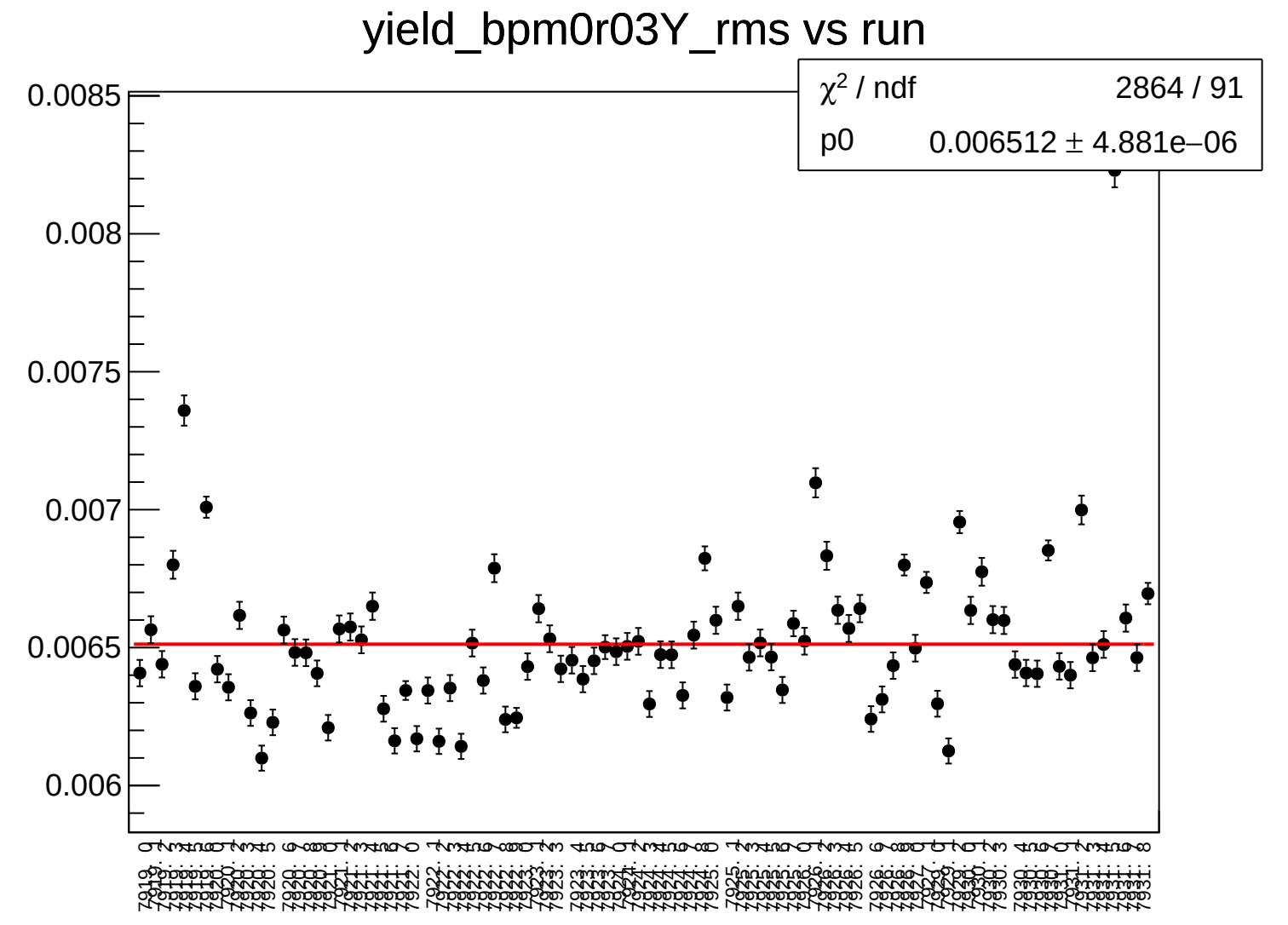

yield_bpm0r03X_mean vs run
χ² / ndf 1.767e+05 / 91
p0 −3.677 ± 8.635e−05
−3.58
−3.6
−3.62
−3.64
−3.66
−3.68
−3.7
−3.72
−3.74
pull
Entries 92
Mean 1516
Std Dev 0
150
100
50
0
−50

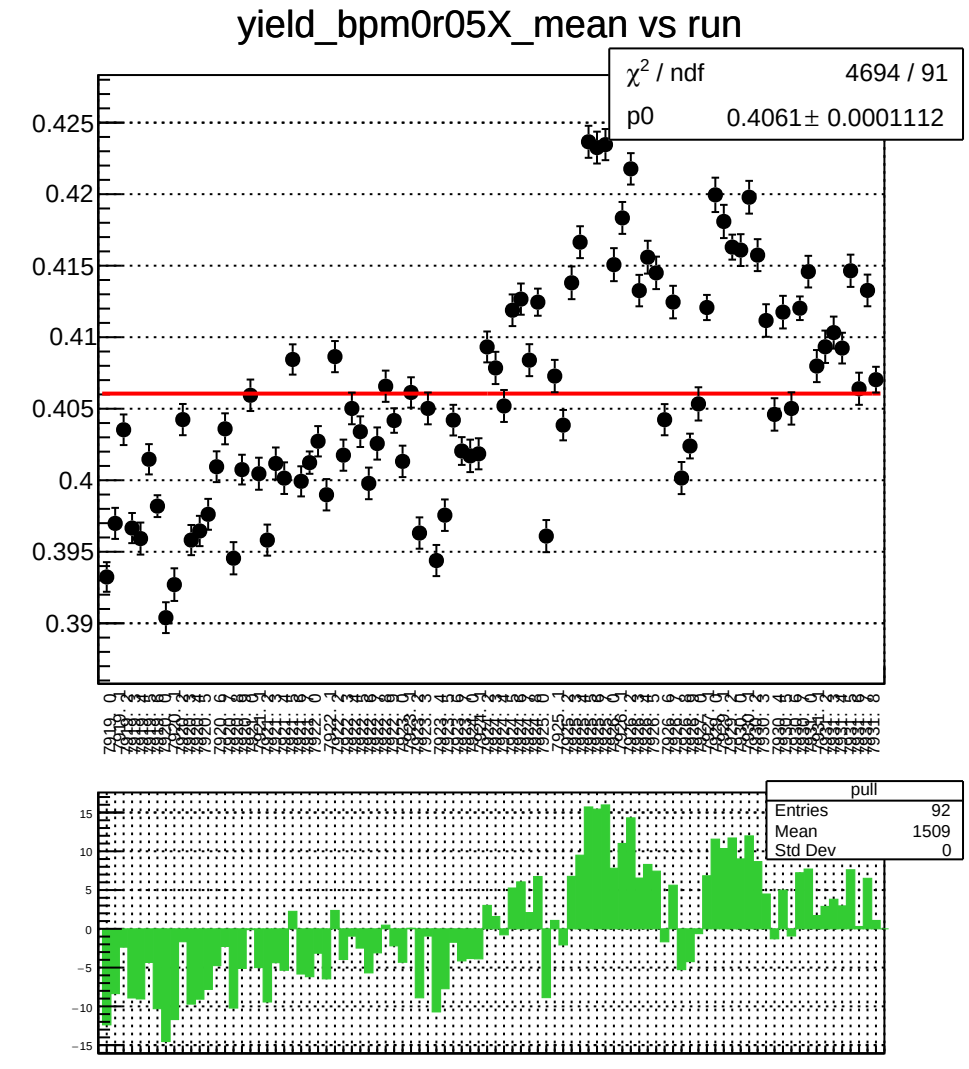

pull1D
Entries 92
Mean −0.6704
Std Dev 4.981
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

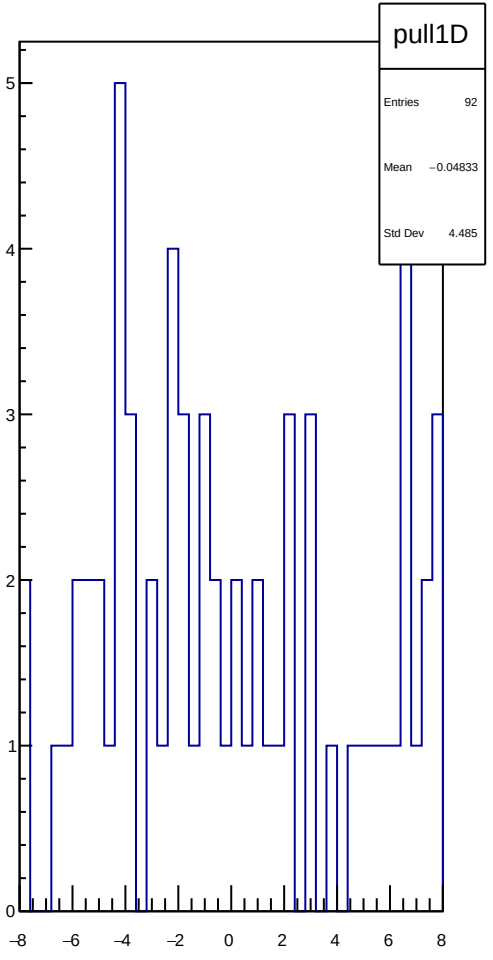

yield_bpm0r03X_rms vs run
χ² / ndf 1866 / 91
p0 0.08148 ± 6.106e–05
0.088
0.086
0.084
0.082
0.08
0.078
0.076

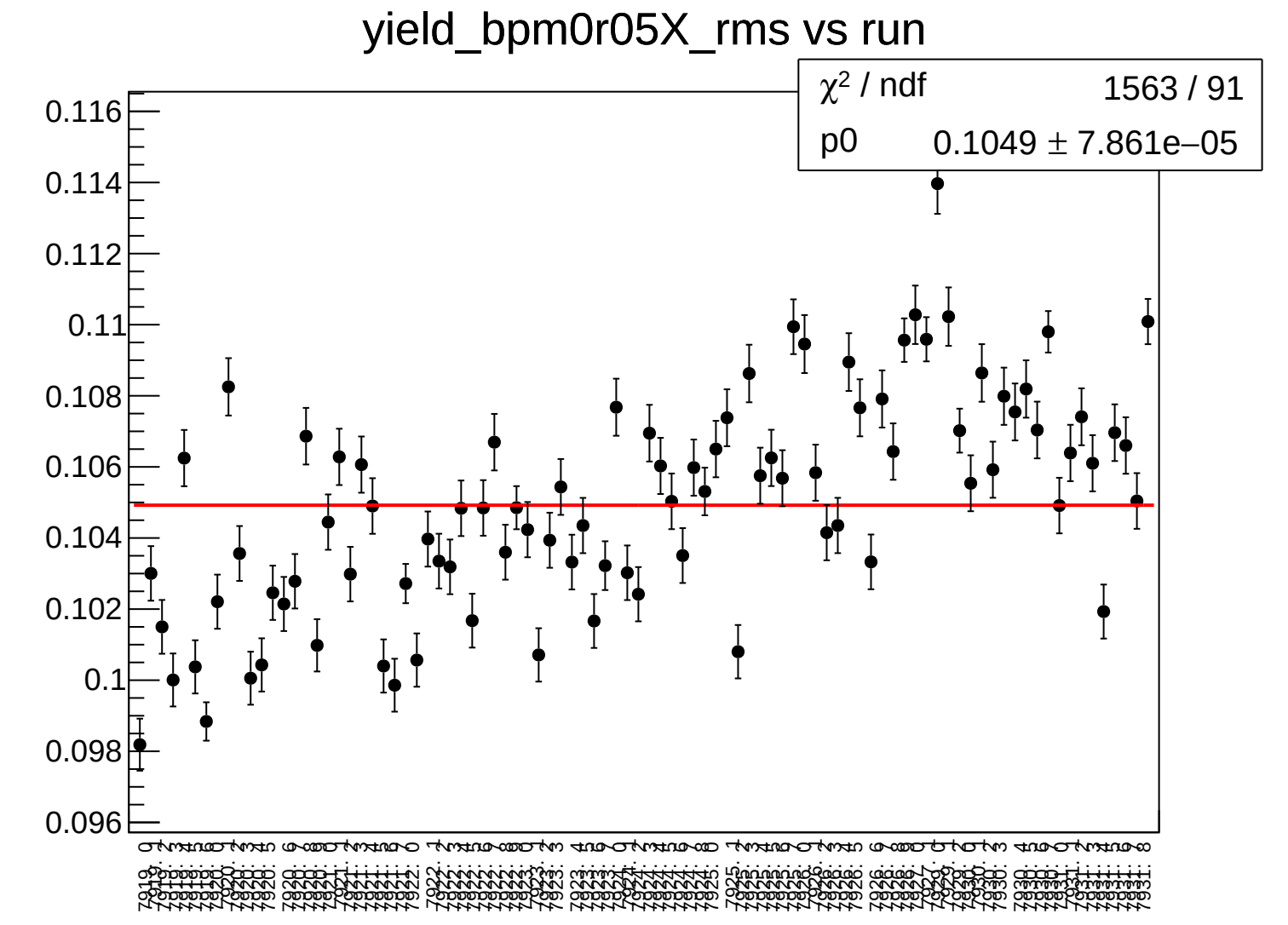

yield_bpm0r03Y_mean vs run
χ² / ndf 6.558e+05 / 91
p0 −0.2925 ± 6.903e−06
−0.28
−0.285
−0.29
−0.295
−0.3
pull
Entries 92
Mean 1749
Std Dev 0
150
100
50
0
−50
−100
−150
−200

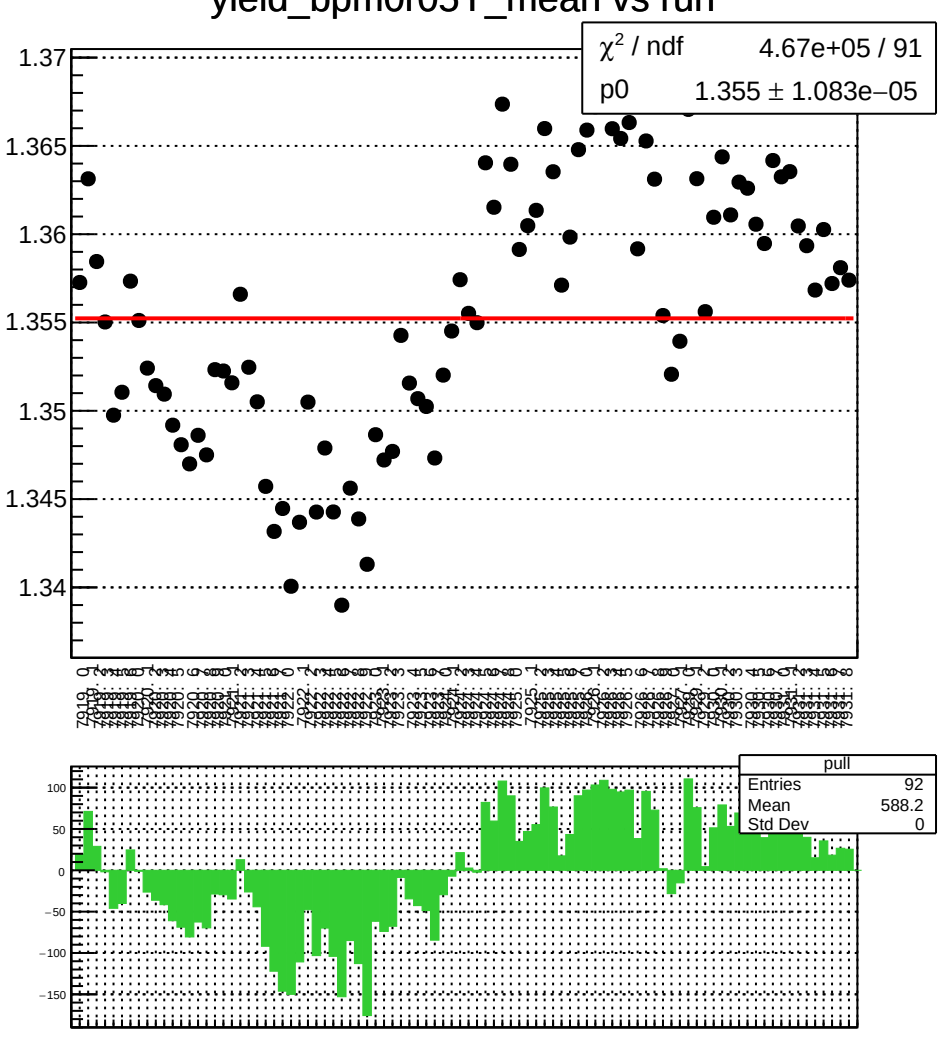

pull1D
Entries 92
Mean −0.8843
Std Dev 3.528
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

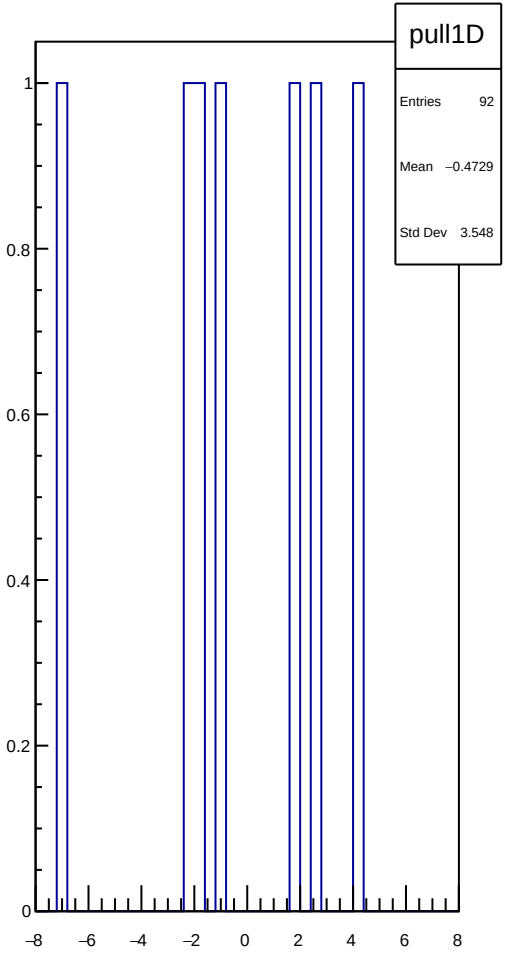

yield_bpm0r03Y_rms vs run
χ² / ndf 2864 / 91
p0 0.006512 ± 4.881e−06
0.0085
0.008
0.0075
0.007
0.0065
0.006

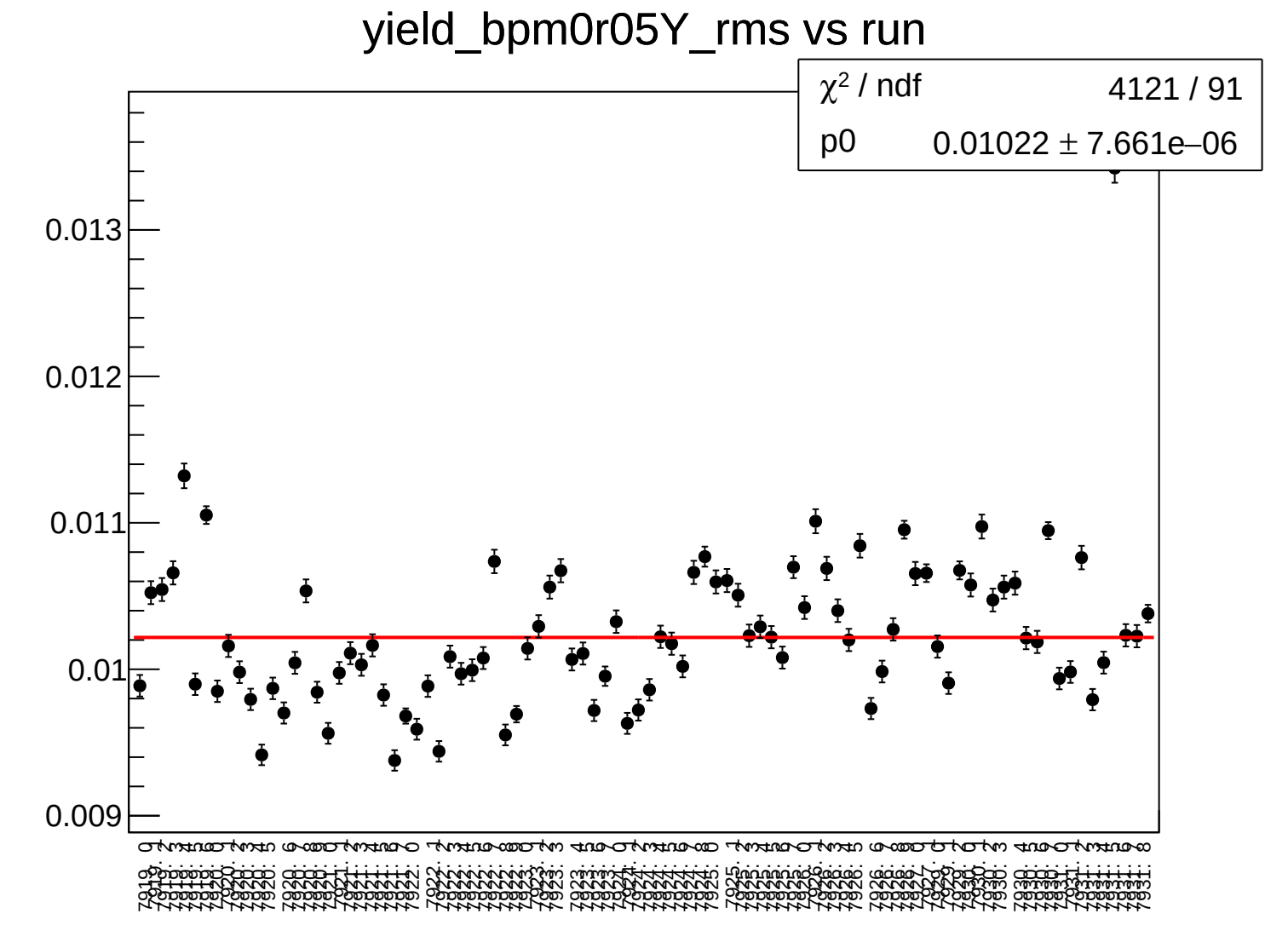

yield_bpm0r05X_mean vs run
χ² / ndf 4694 / 91
p0 0.4061 ± 0.0001112
0.425
0.42
0.415
0.41
0.405
0.4
0.395
0.39
pull
Entries 92
Mean 1509
Std Dev 0
15
10
5
0
−5
−10
−15

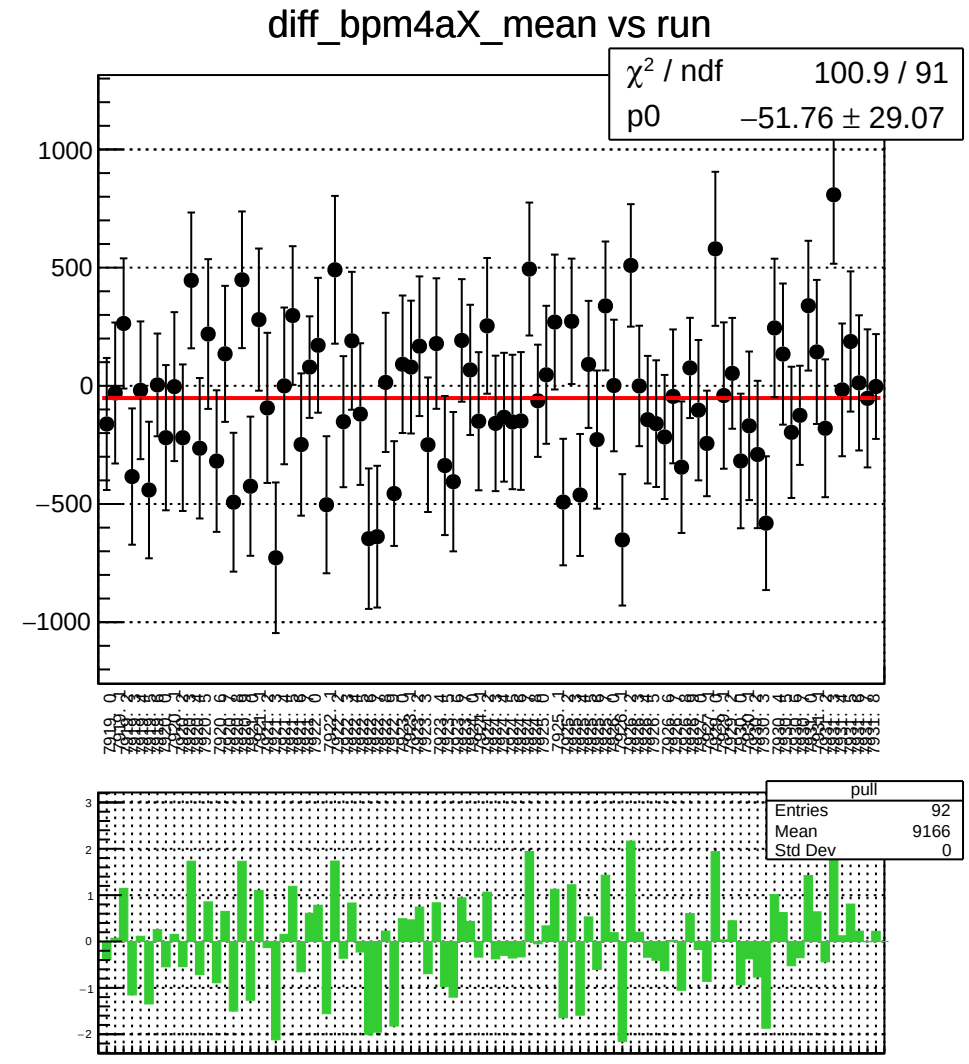

pull1D
Entries 92
Mean −0.04833
Std Dev 4.485
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

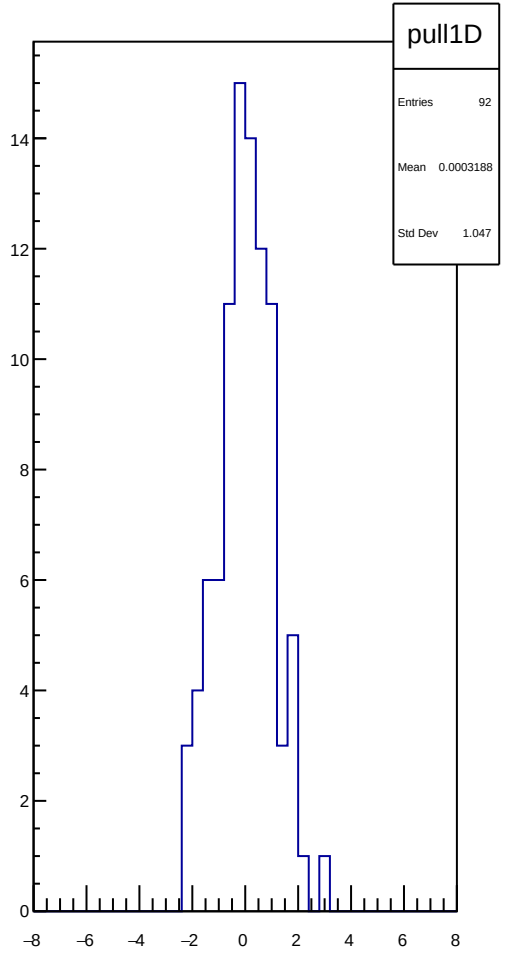

yield_bpm0r05X_rms vs run
χ^2 / ndf 1563 / 91
p0 0.1049 ± 7.861e−05
0.116
0.114
0.112
0.11
0.108
0.106
0.104
0.102
0.1
0.098
0.096

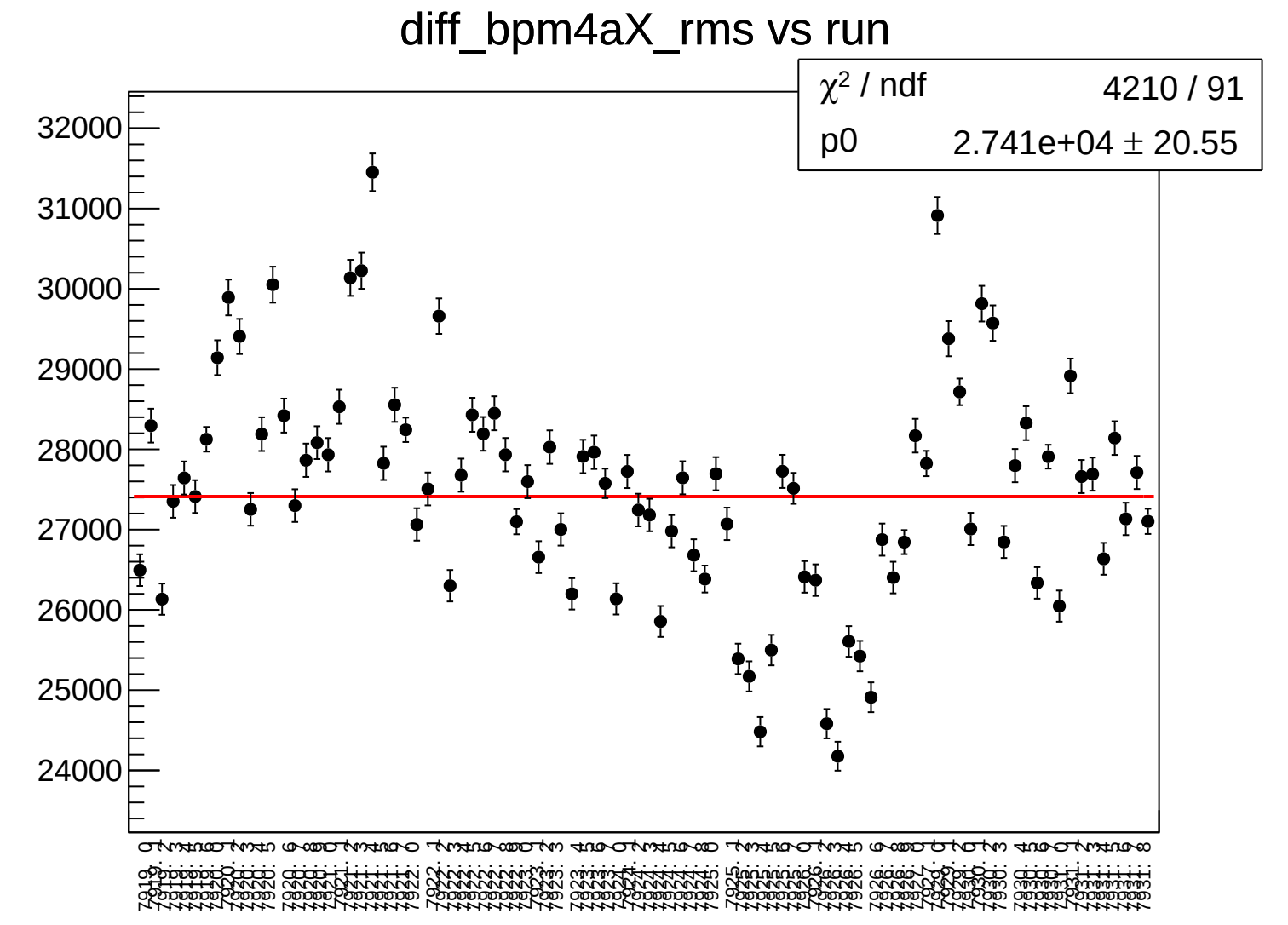

yield_bpm0r05Y_mean vs run
χ² / ndf 4.67e+05 / 91
p0 1.355 ± 1.083e−05
1.37
1.365
1.36
1.355
1.35
1.345
1.34
pull
Entries 92
Mean 588.2
Std Dev 0
100
50
0
−50
−100
−150

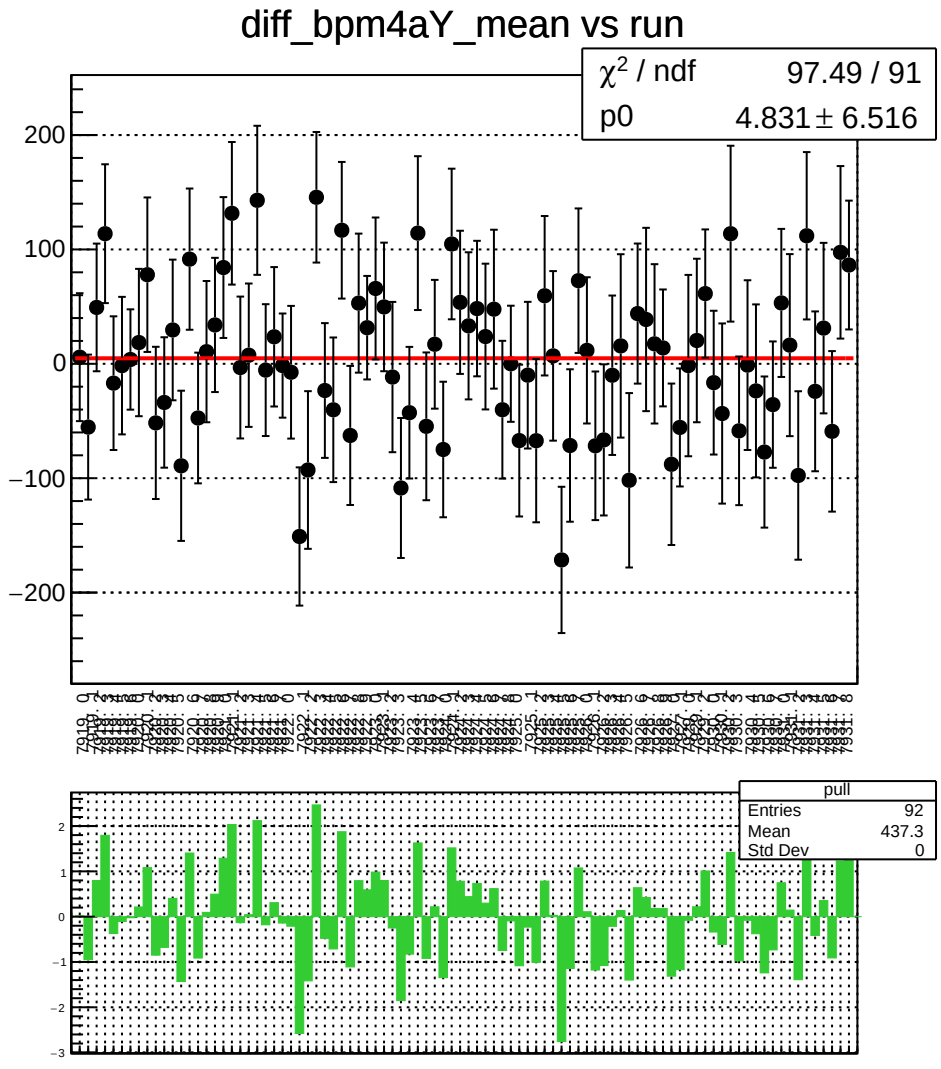

pull1D
Entries 92
Mean −0.4729
Std Dev 3.548
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

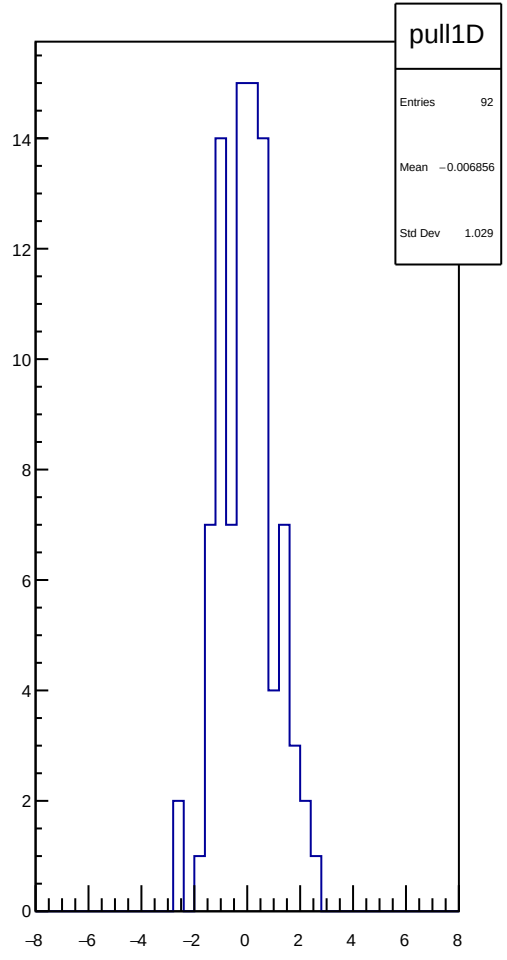

yield_bpm0r05Y_rms vs run
χ² / ndf 4121 / 91
p0 0.01022 ± 7.661e–06
0.013
0.012
0.011
0.01
0.009

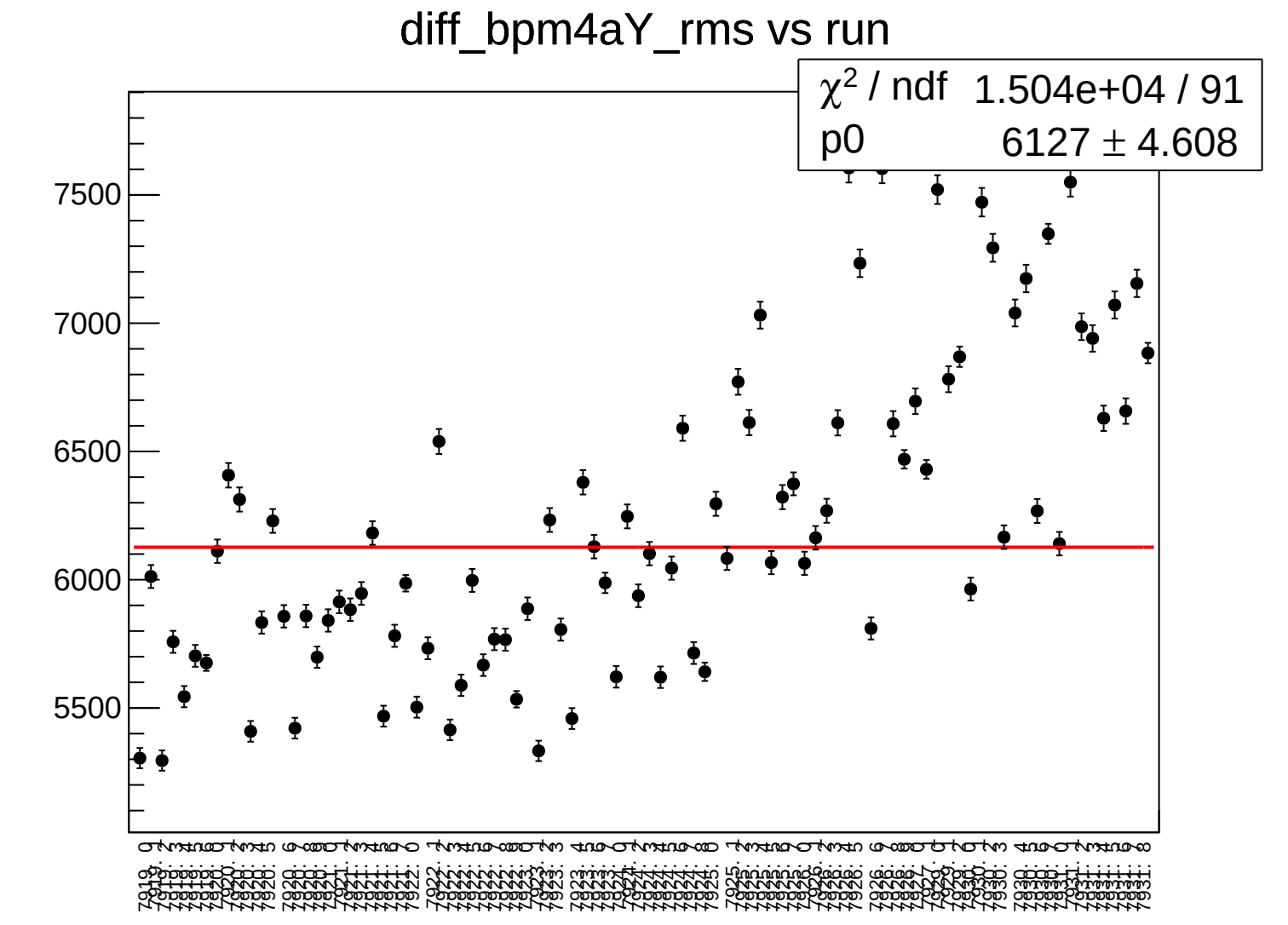

diff_bpm4aX_mean vs run
χ² / ndf 100.9 / 91
p0 −51.76 ± 29.07
1000
500
0
−500
−1000
pull
Entries 92
Mean 9166
Std Dev 0
3
2
1
0
−1
−2

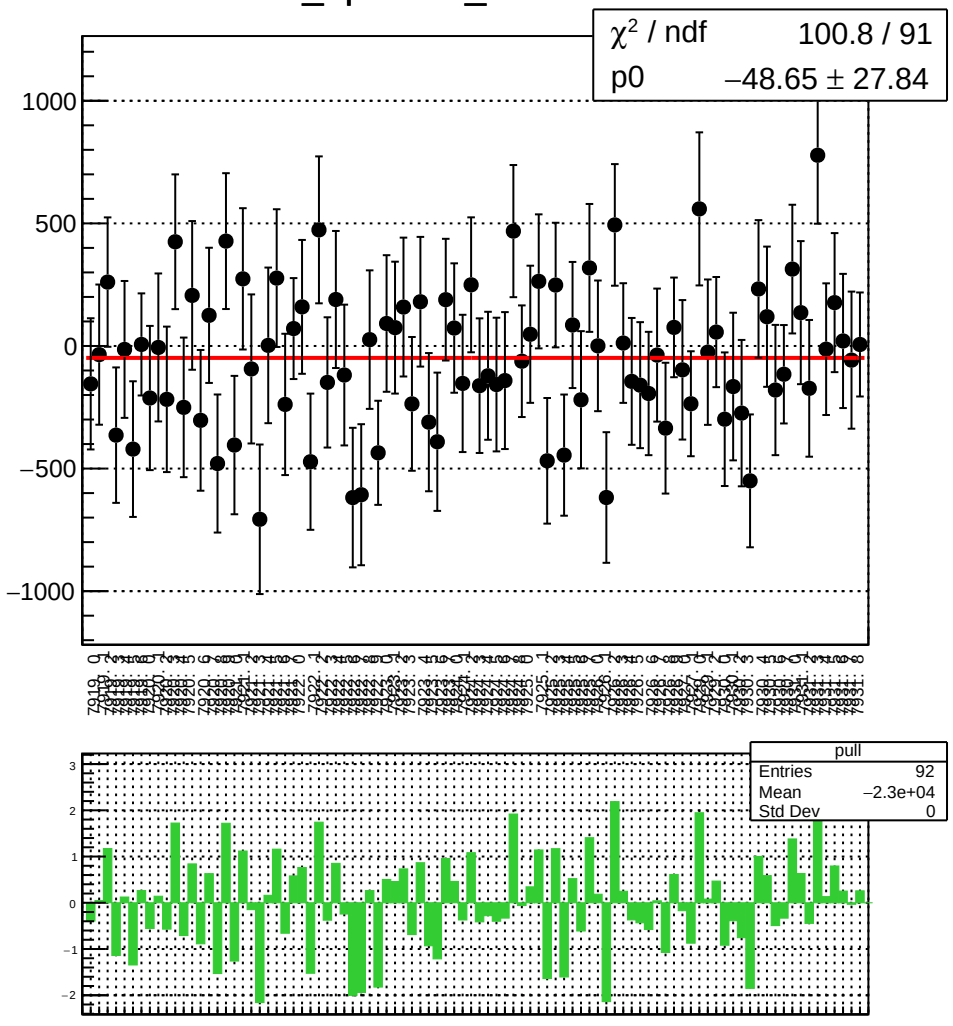

pull1D
Entries 92
Mean 0.0003188
Std Dev 1.047
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

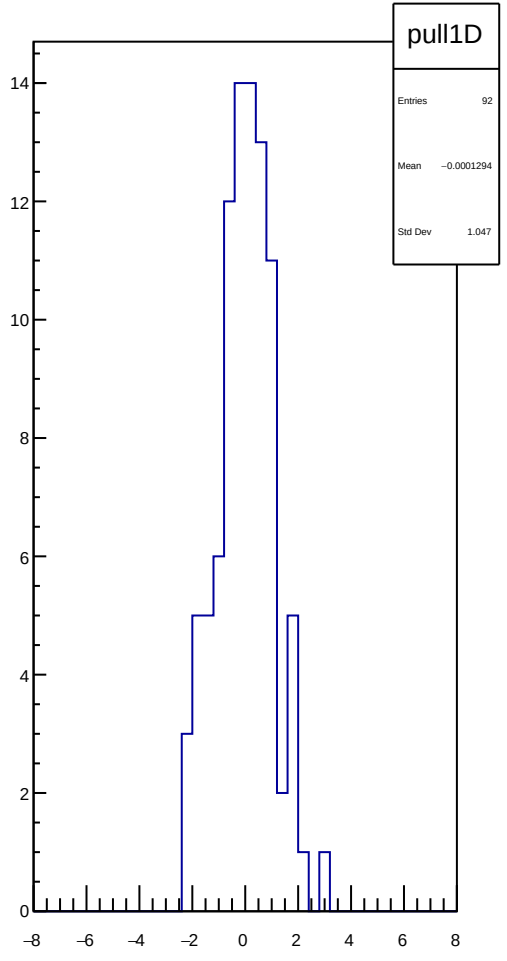

diff_bpm4aX_rms vs run
χ² / ndf 4210 / 91
p0 2.741e+04 ± 20.55
32000
31000
30000
29000
28000
27000
26000
25000
24000

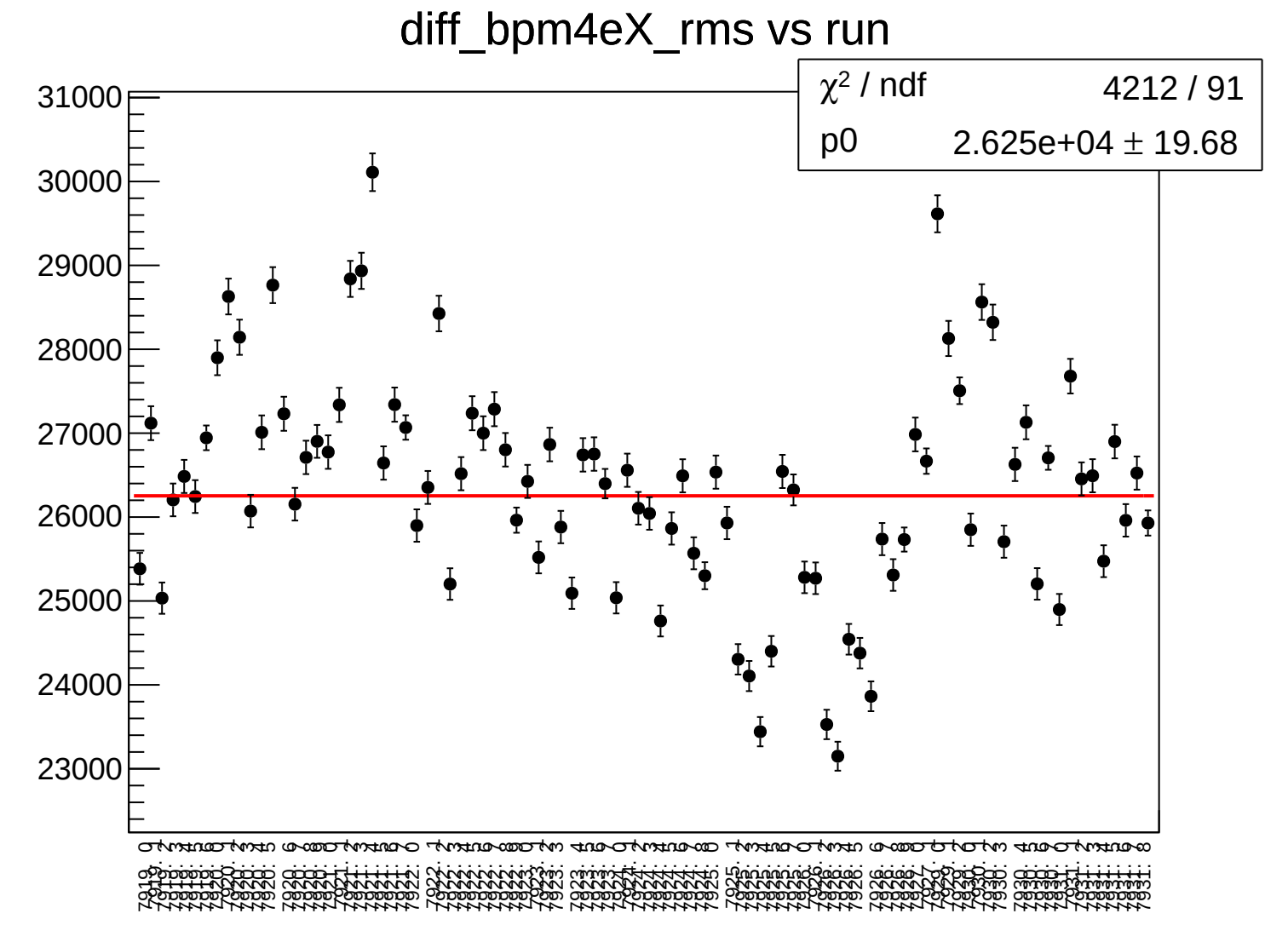

diff_bpm4aY_mean vs run
χ² / ndf 97.49 / 91
p0 4.831 ± 6.516
200
100
0
−100
−200
pull
Entries 92
Mean 437.3
Std Dev 0
2
1
0
−1
−2
−3

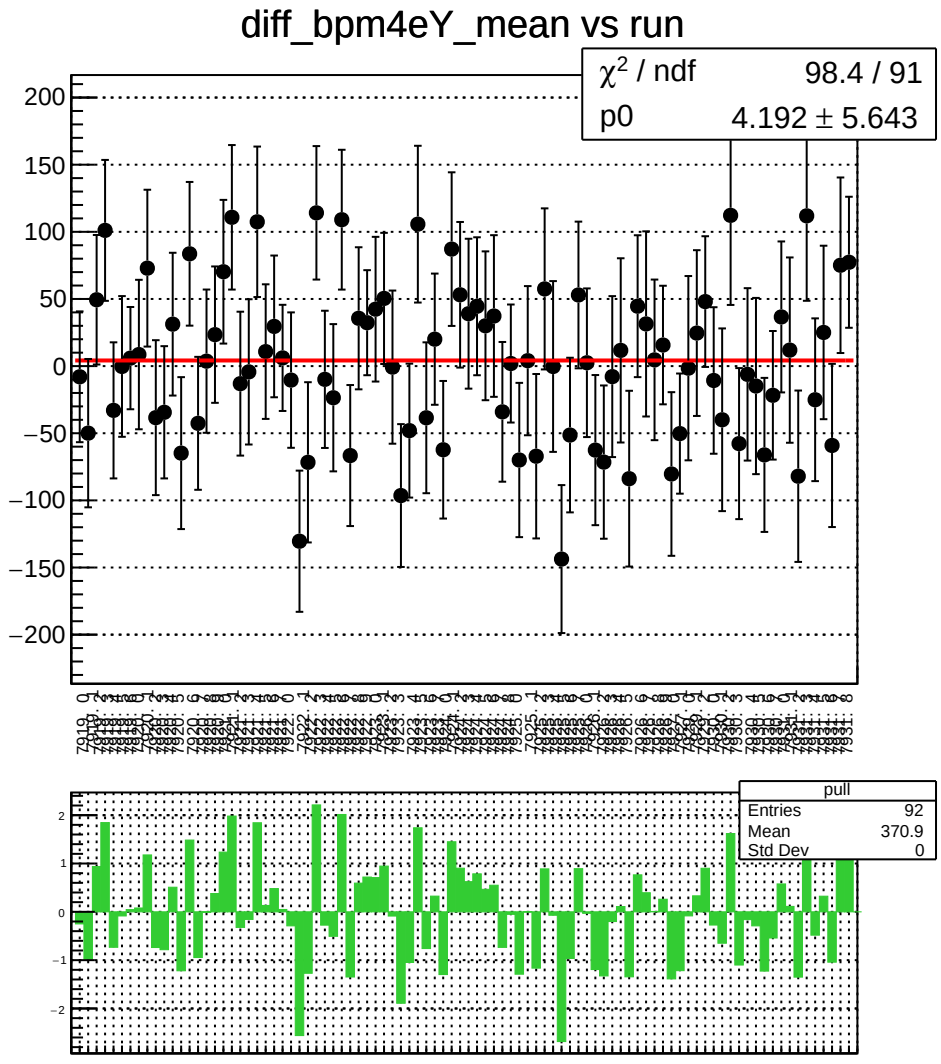

pull1D
Entries 92
Mean −0.006856
Std Dev 1.029
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

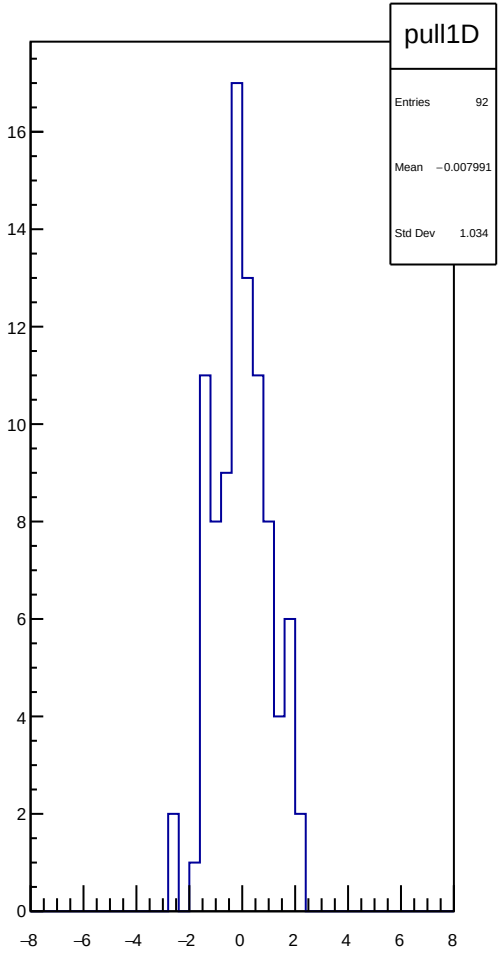

diff_bpm4aY_rms vs run
χ^2 / ndf 1.504e+04 / 91
p0 6127 ± 4.608
7500
7000
6500
6000
5500

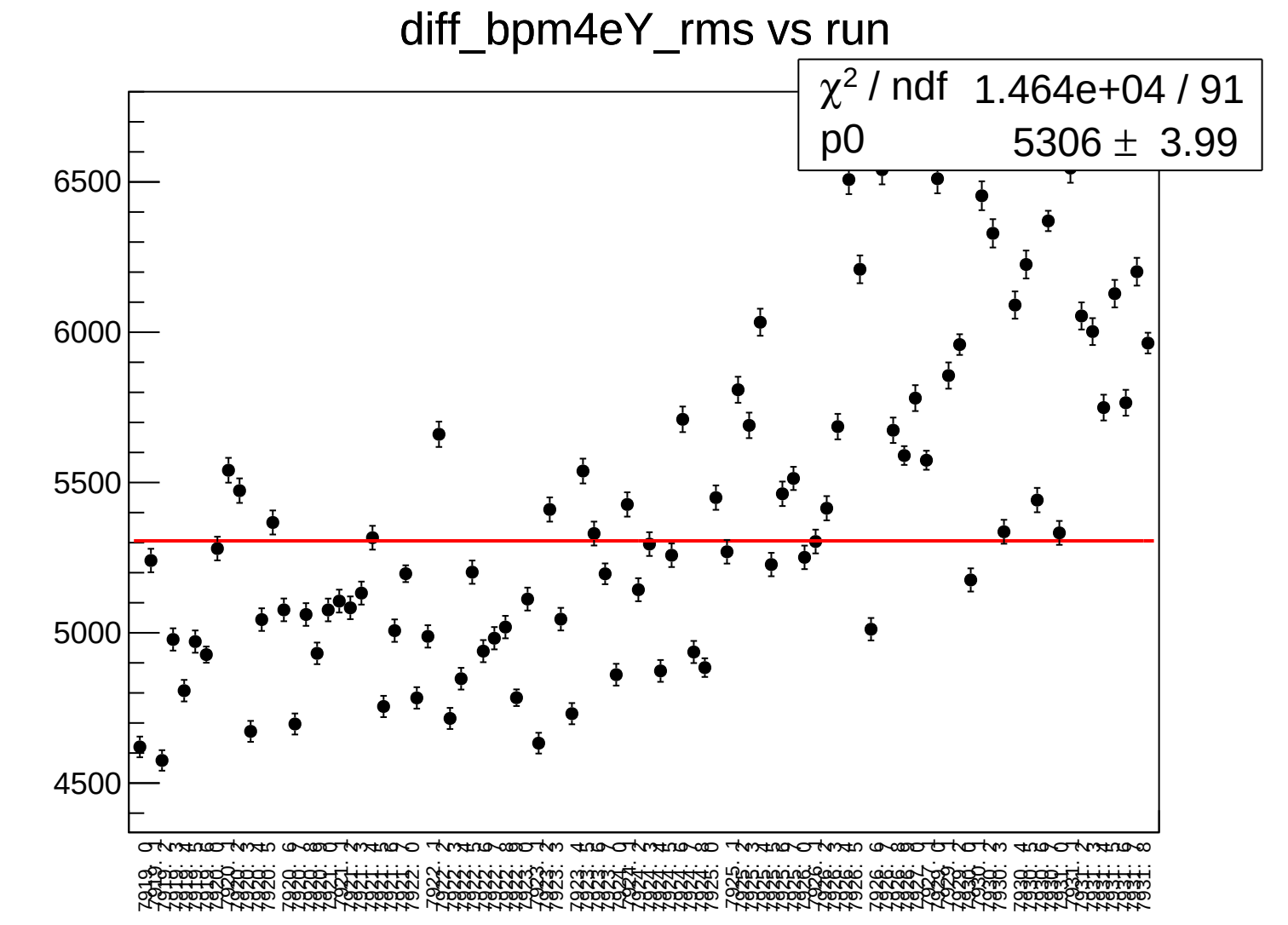

diff_bpm4eX_mean vs run
χ² / ndf 100.8 / 91
p0 −48.65 ± 27.84
1000
500
0
−500
−1000
pull
Entries 92
Mean −2.3e+04
Std Dev 0
3
2
1
0
−1
−2

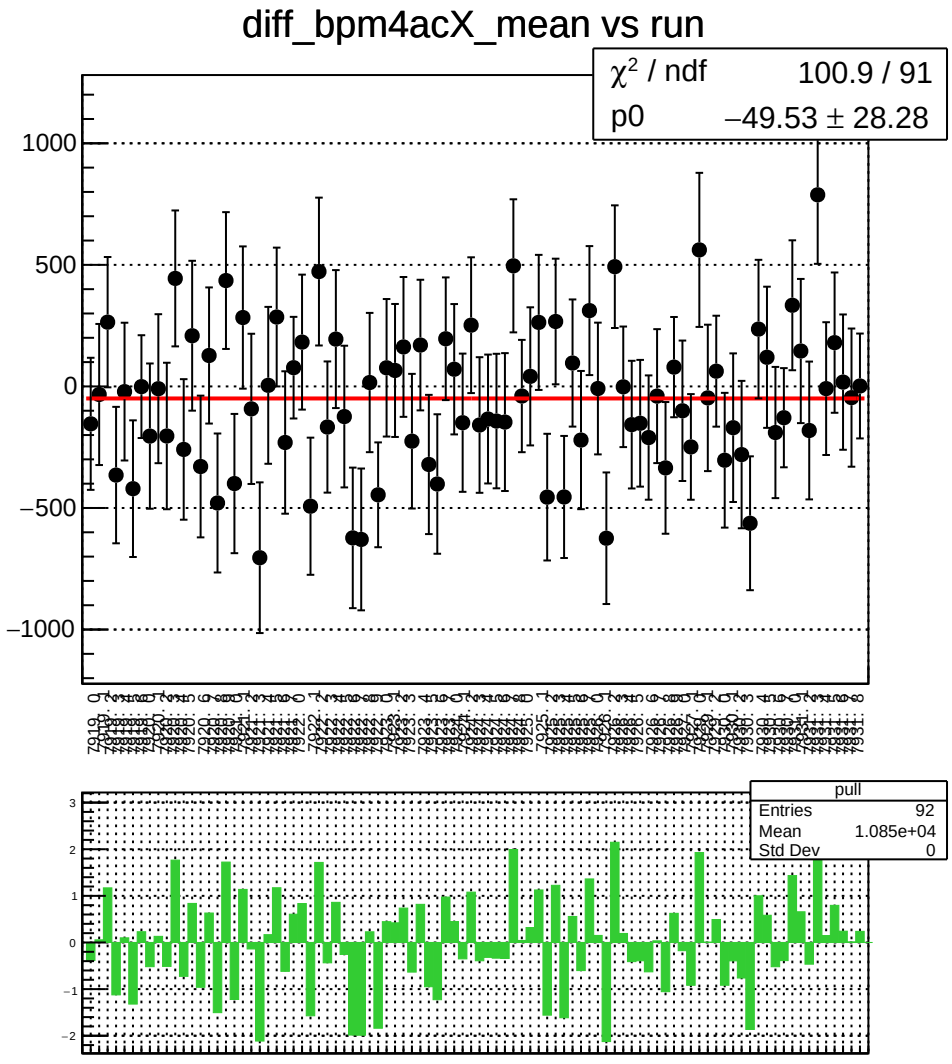

pull1D
Entries 92
Mean −0.0001294
Std Dev 1.047
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

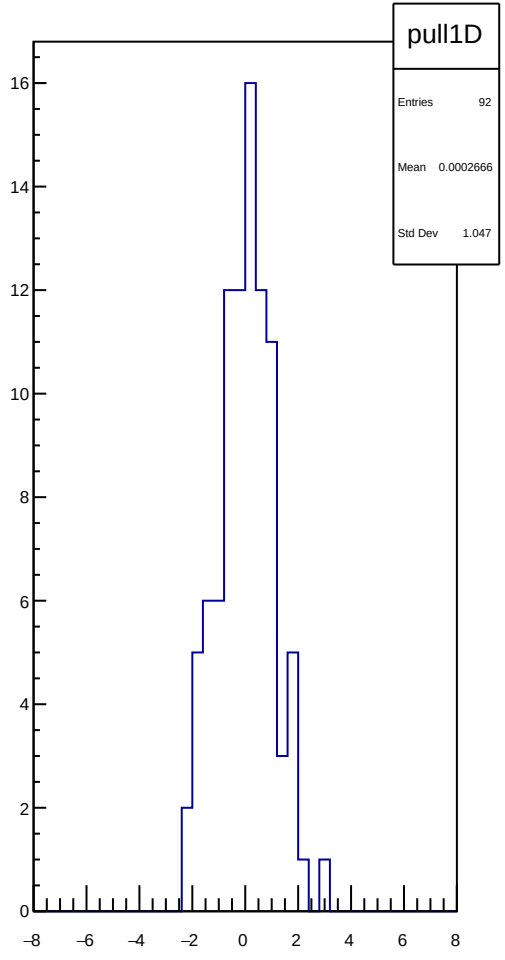

diff_bpm4eX_rms vs run
χ² / ndf 4212 / 91
p0 2.625e+04 ± 19.68
31000
30000
29000
28000
27000
26000
25000
24000
23000

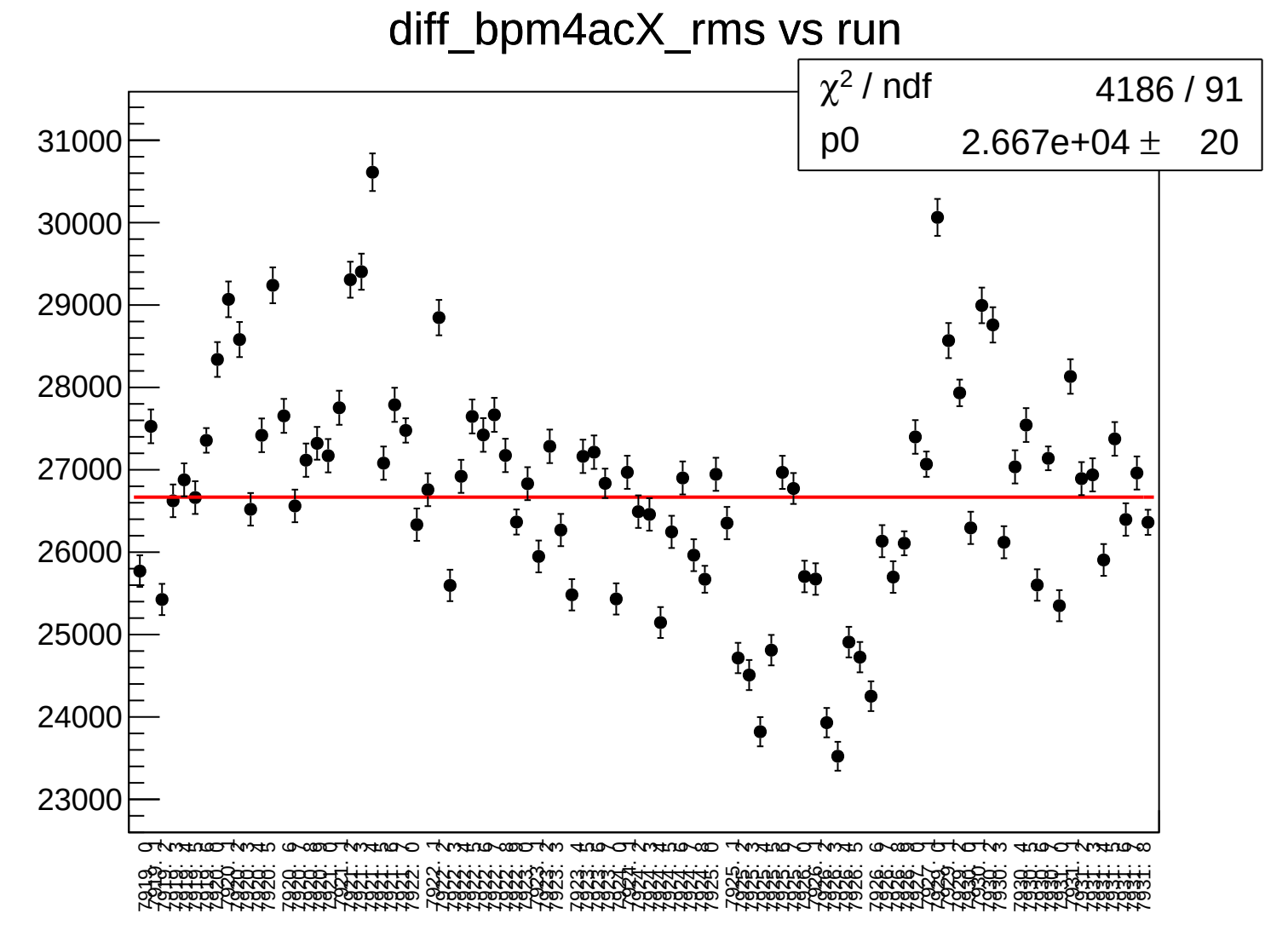

diff_bpm4eY_mean vs run
χ^2 / ndf 98.4 / 91
p0 4.192 ± 5.643
pull
Entries 92
Mean 370.9
Std Dev 0

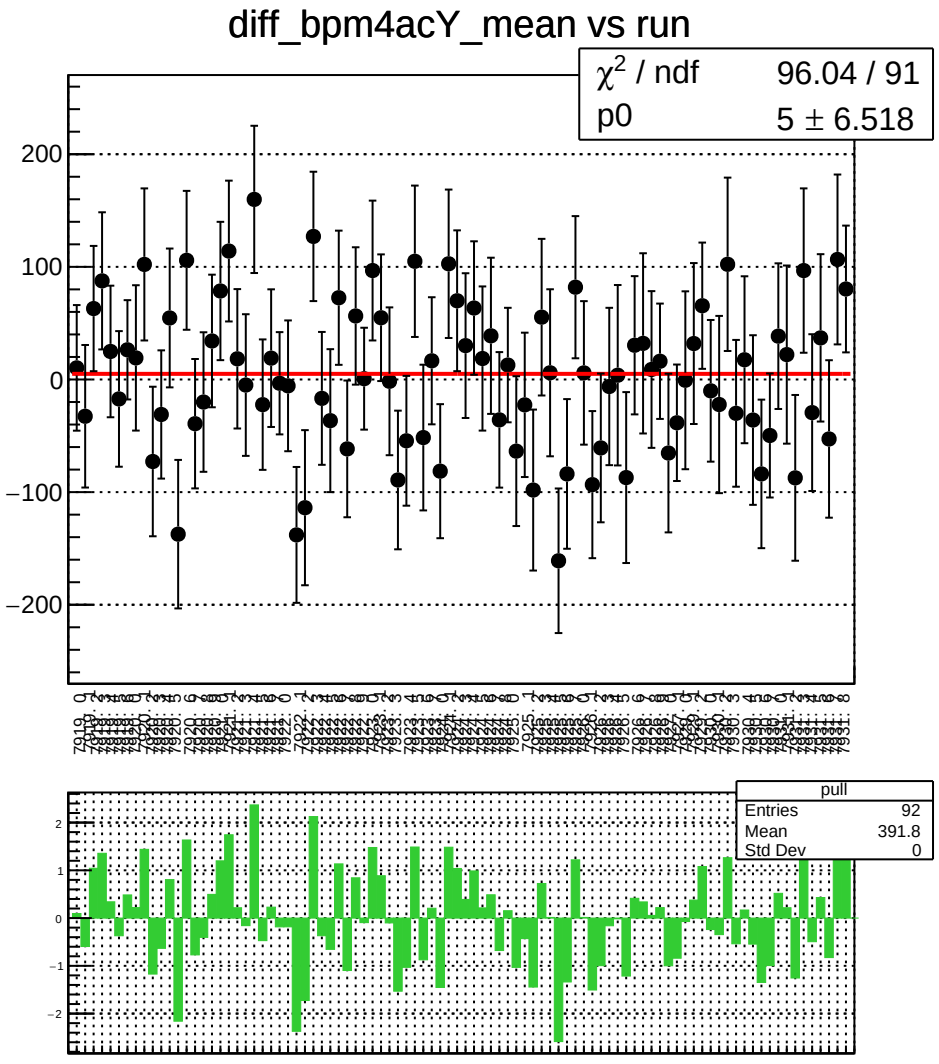

pull1D
Entries 92
Mean −0.007991
Std Dev 1.034

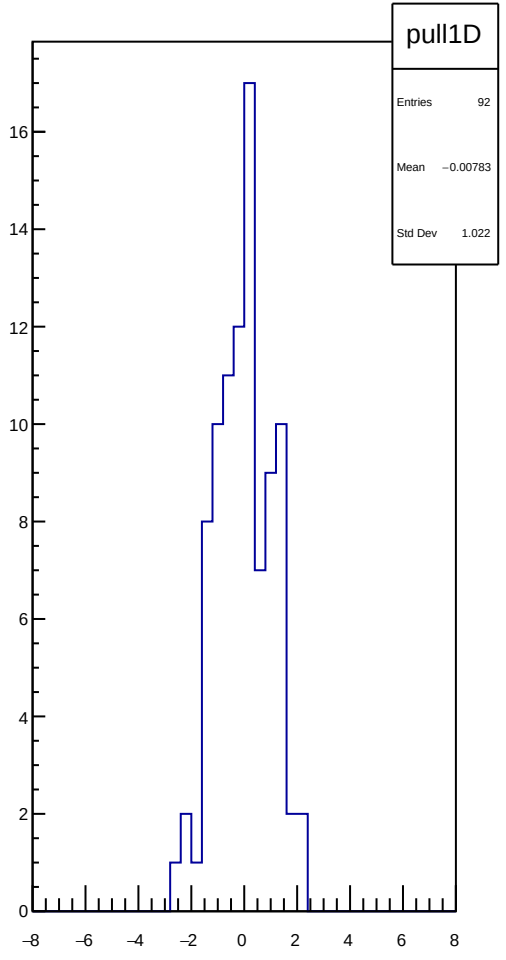

diff_bpm4eY_rms vs run
χ² / ndf 1.464e+04 / 91
p0 5306 ± 3.99
6500
6000
5500
5000
4500

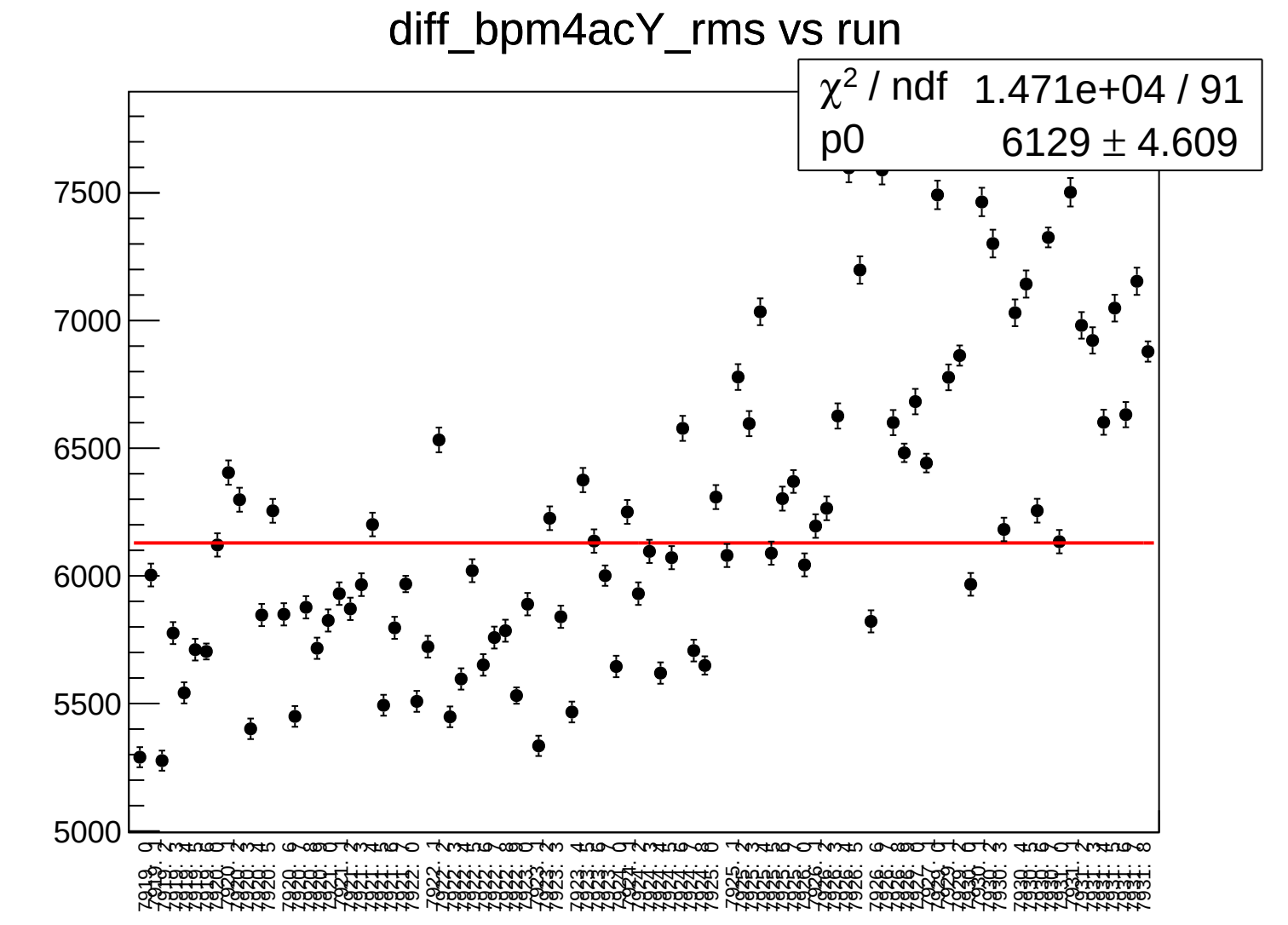

diff_bpm4acX_mean vs run
χ² / ndf 100.9 / 91
p0 −49.53 ± 28.28
1000
500
0
−500
−1000
pull
Entries 92
Mean 1.085e+04
Std Dev 0
3
2
1
0
−1
−2

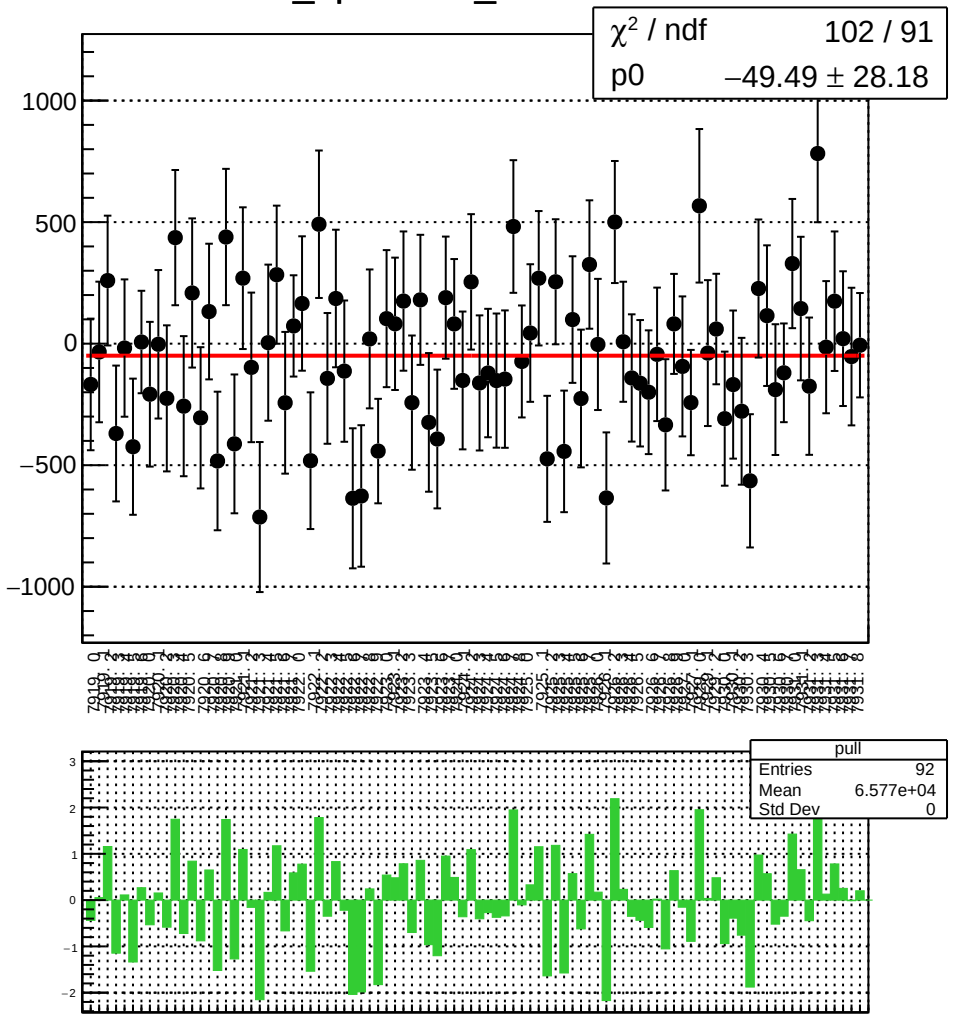

pull1D
Entries 92
Mean 0.0002666
Std Dev 1.047
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

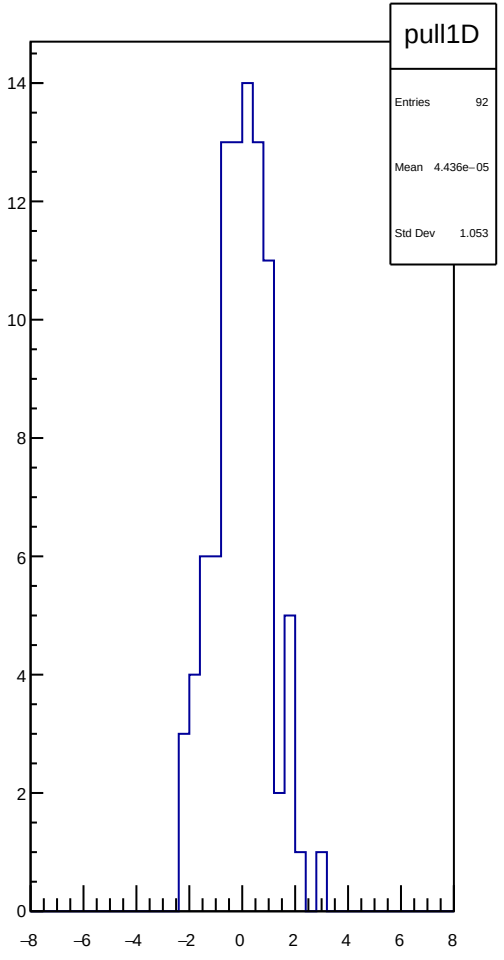

diff_bpm4acX_rms vs run
χ² / ndf 4186 / 91
p0 2.667e+04 ± 20
31000
30000
29000
28000
27000
26000
25000
24000
23000

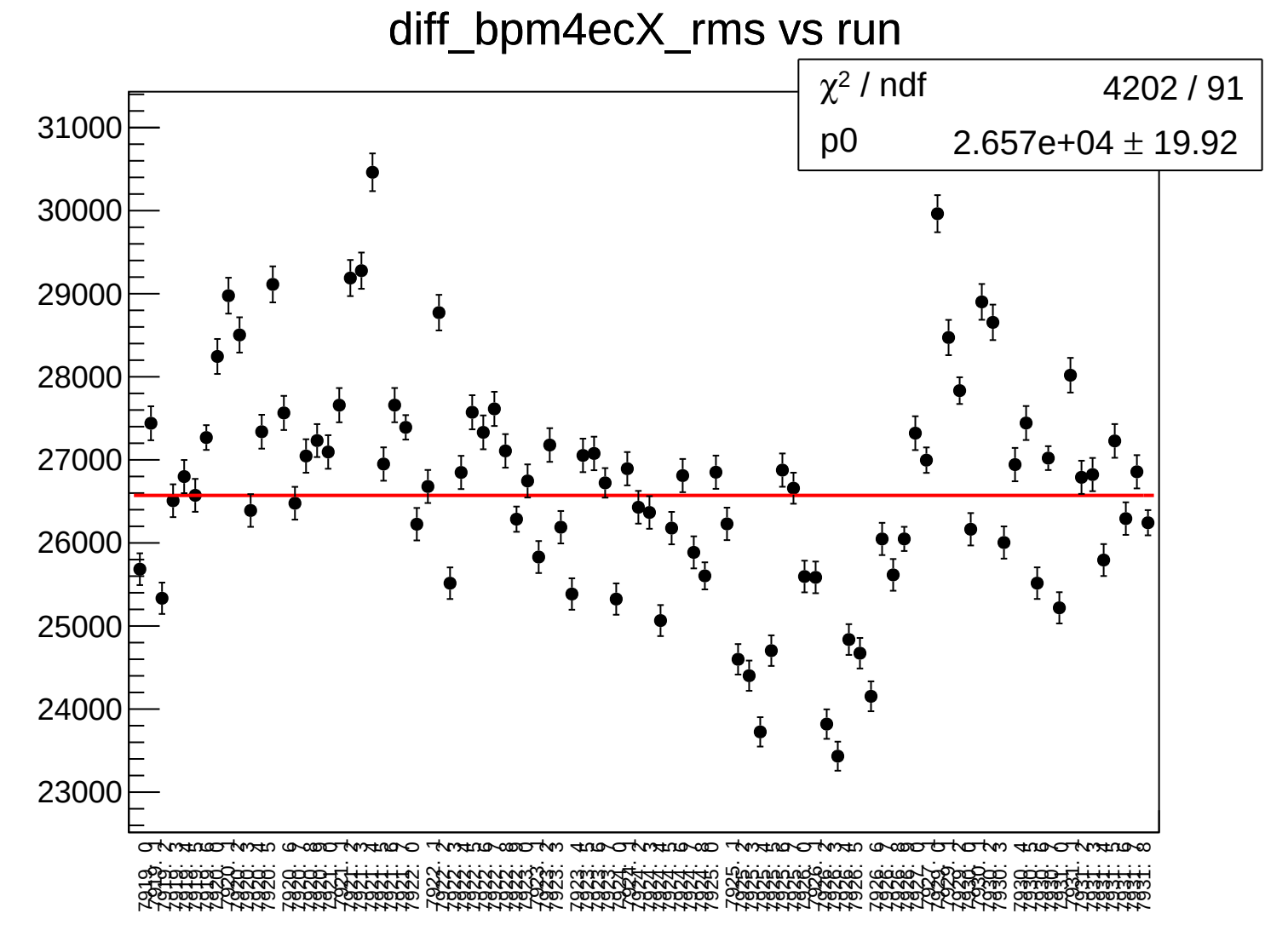

diff_bpm4acY_mean vs run
χ² / ndf 96.04 / 91
p0 5 ± 6.518
200
100
0
−100
−200
pull
Entries 92
Mean 391.8
Std Dev 0
2
1
0
−1
−2

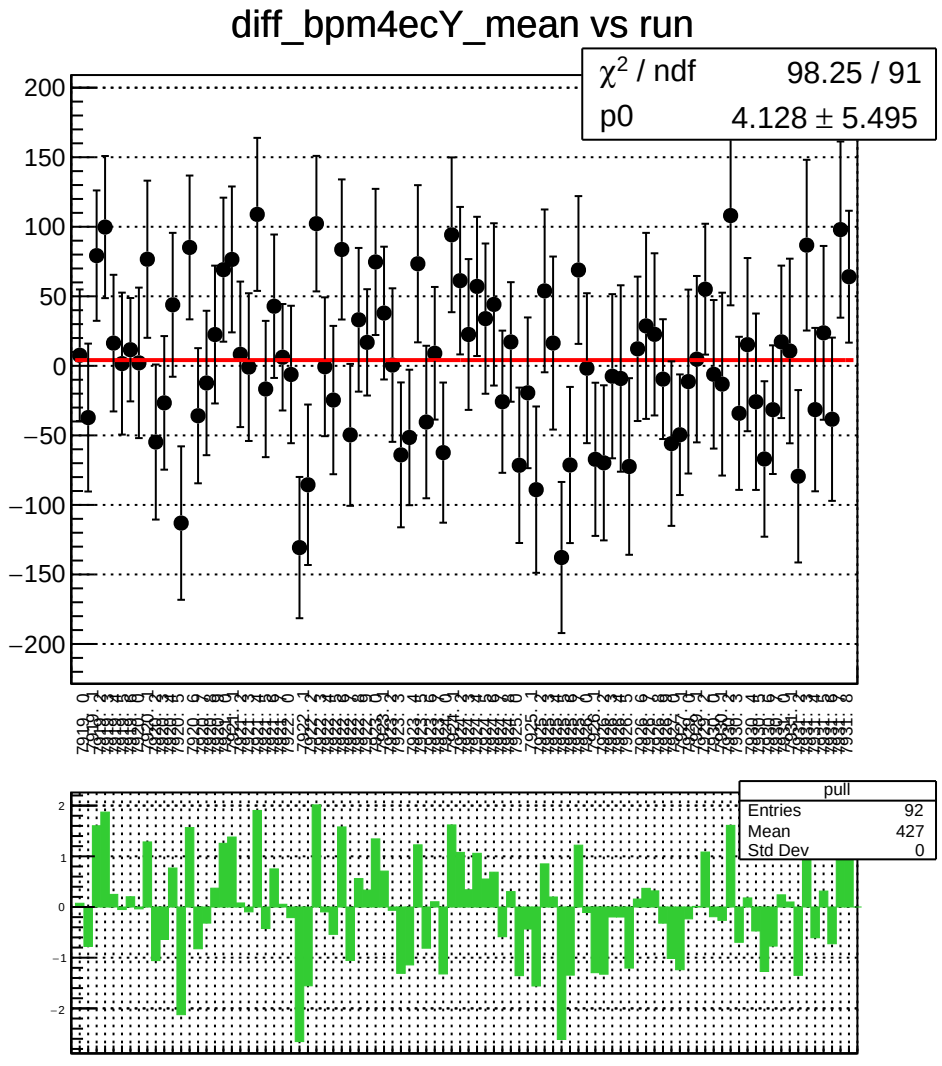

pull1D
Entries 92
Mean −0.00783
Std Dev 1.022
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

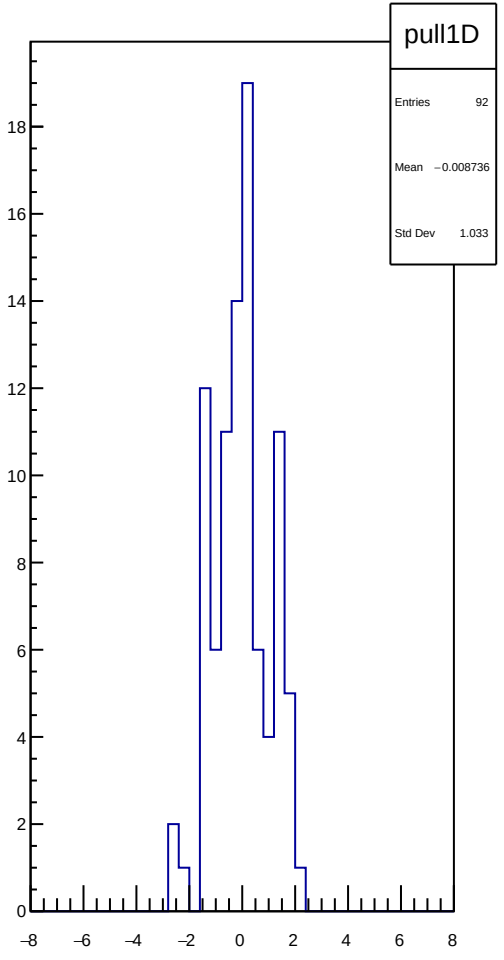

diff_bpm4acY_rms vs run
χ^2 / ndf 1.471e+04 / 91
p0 6129 ± 4.609
7500
7000
6500
6000
5500
5000

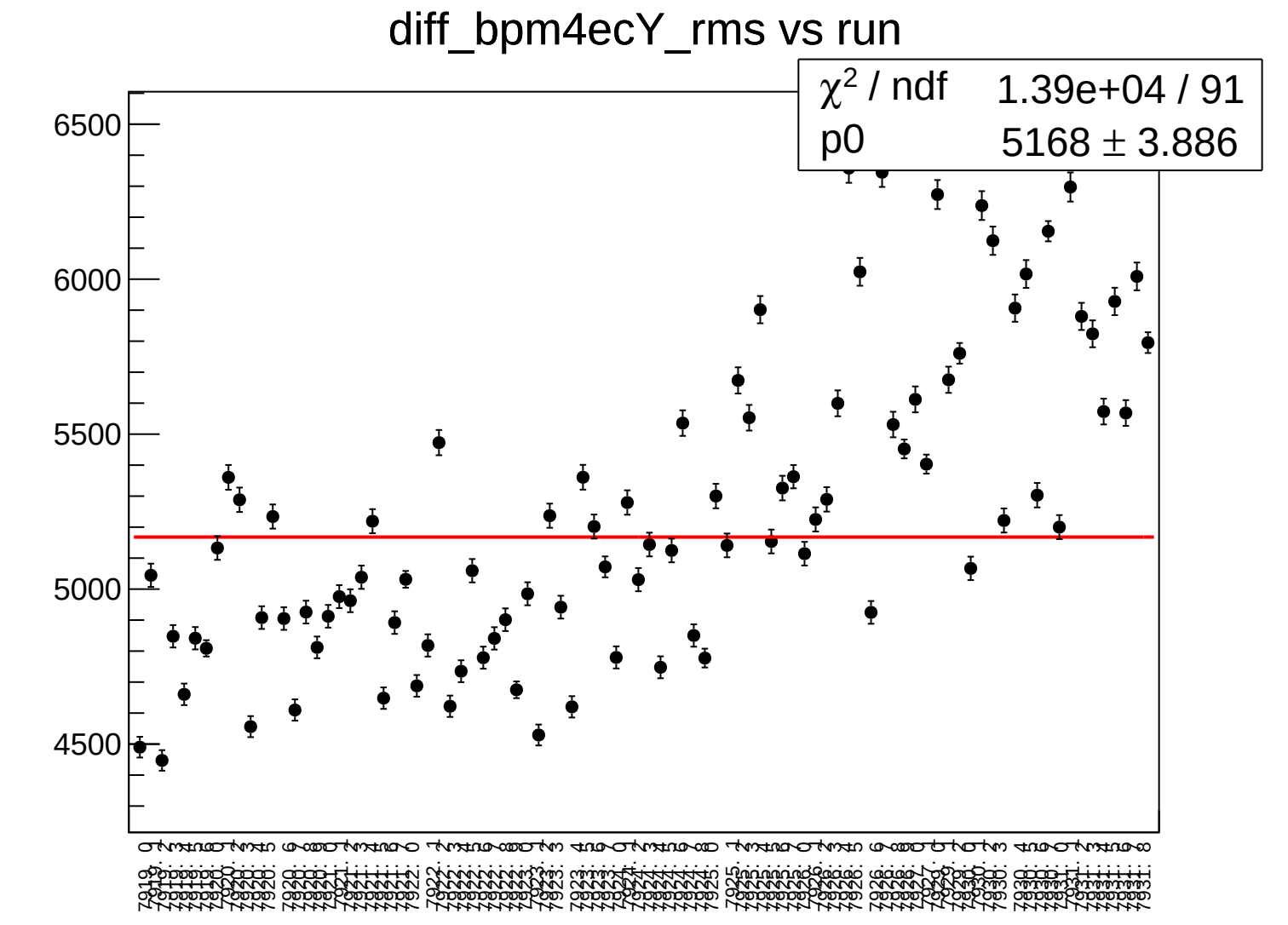

diff_bpm4ecX_mean vs run
χ² / ndf 102 / 91
p0 −49.49 ± 28.18
1000
500
0
−500
−1000
pull
Entries 92
Mean 6.577e+04
Std Dev 0
3
2
1
0
−1
−2

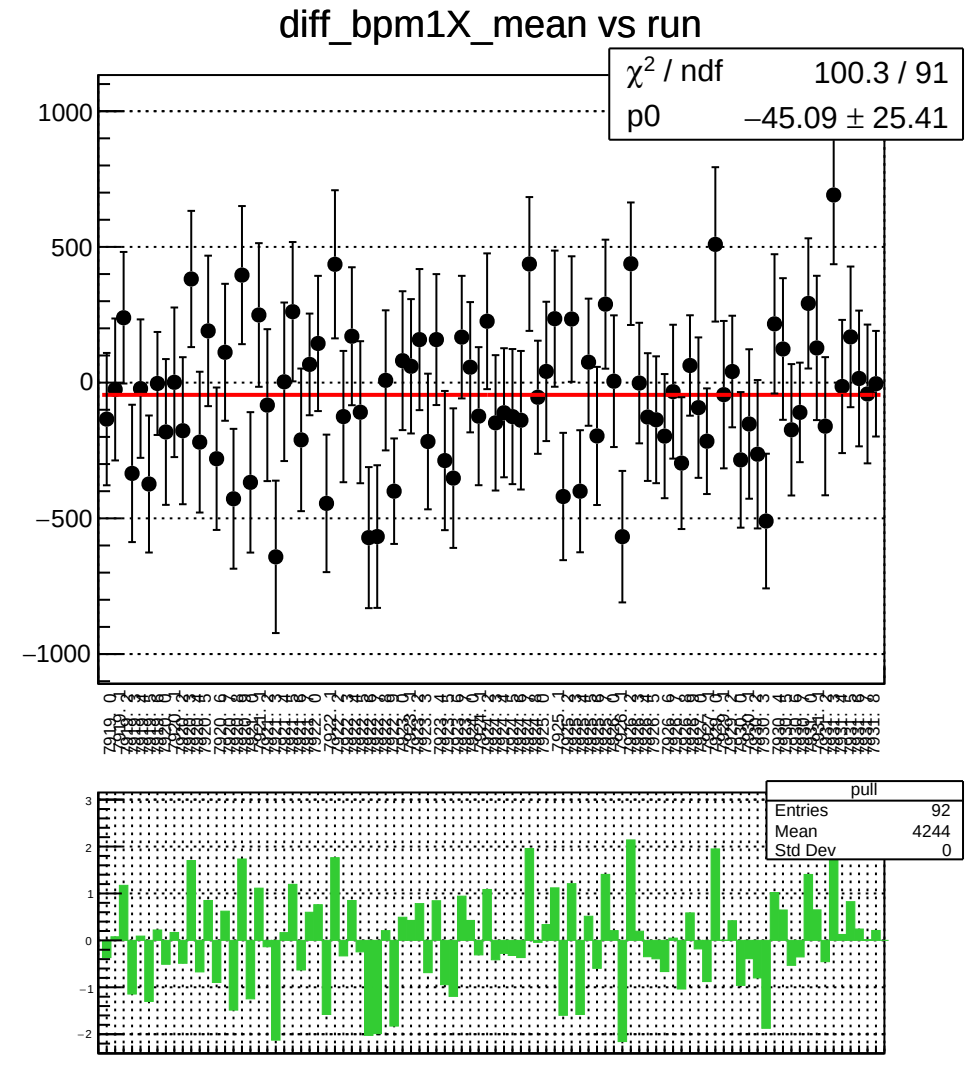

pull1D
Entries 92
Mean 4.436e−05
Std Dev 1.053
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

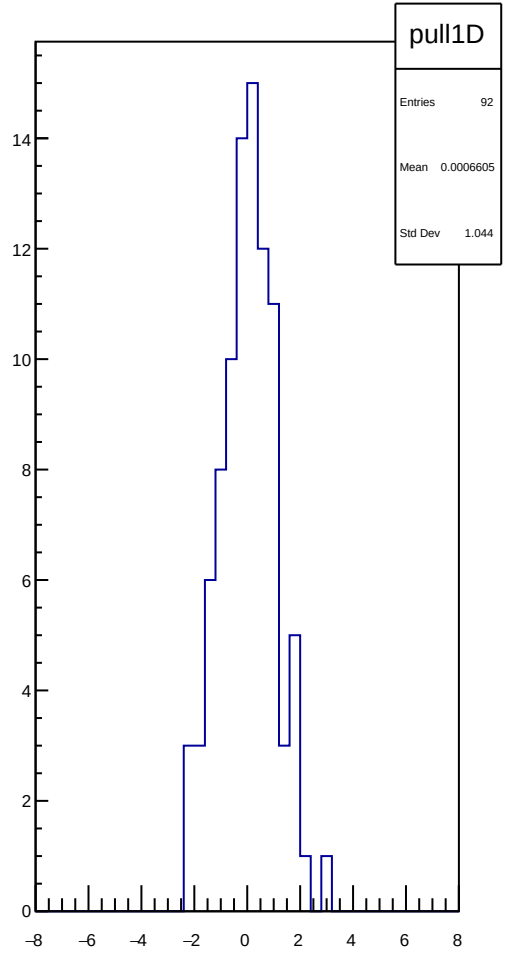

diff_bpm4ecX_rms vs run
χ² / ndf 4202 / 91
p0 2.657e+04 ± 19.92
31000
30000
29000
28000
27000
26000
25000
24000
23000

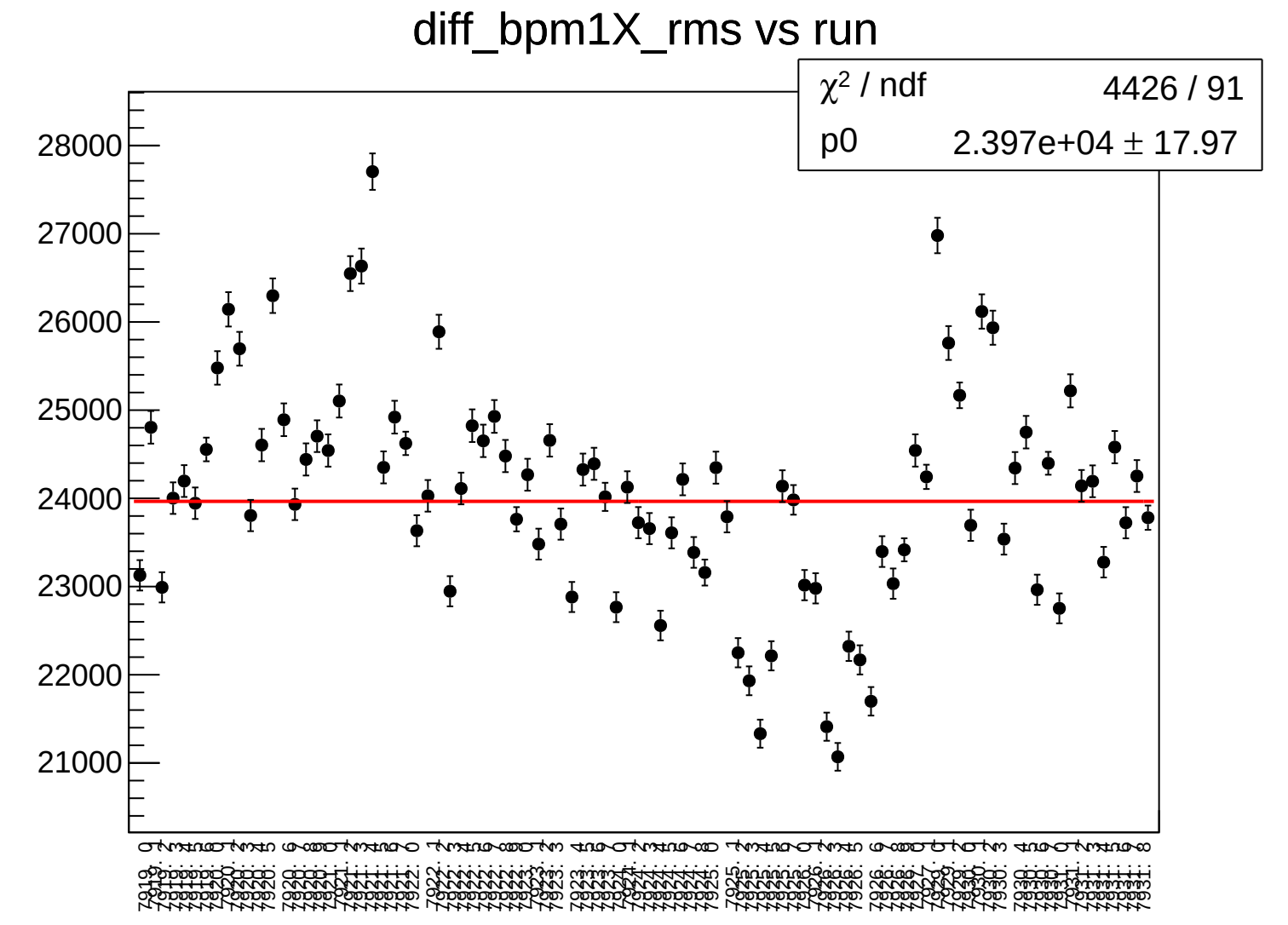

diff_bpm4ecY_mean vs run
χ² / ndf 98.25 / 91
p0 4.128 ± 5.495
pull
Entries 92
Mean 427
Std Dev 0

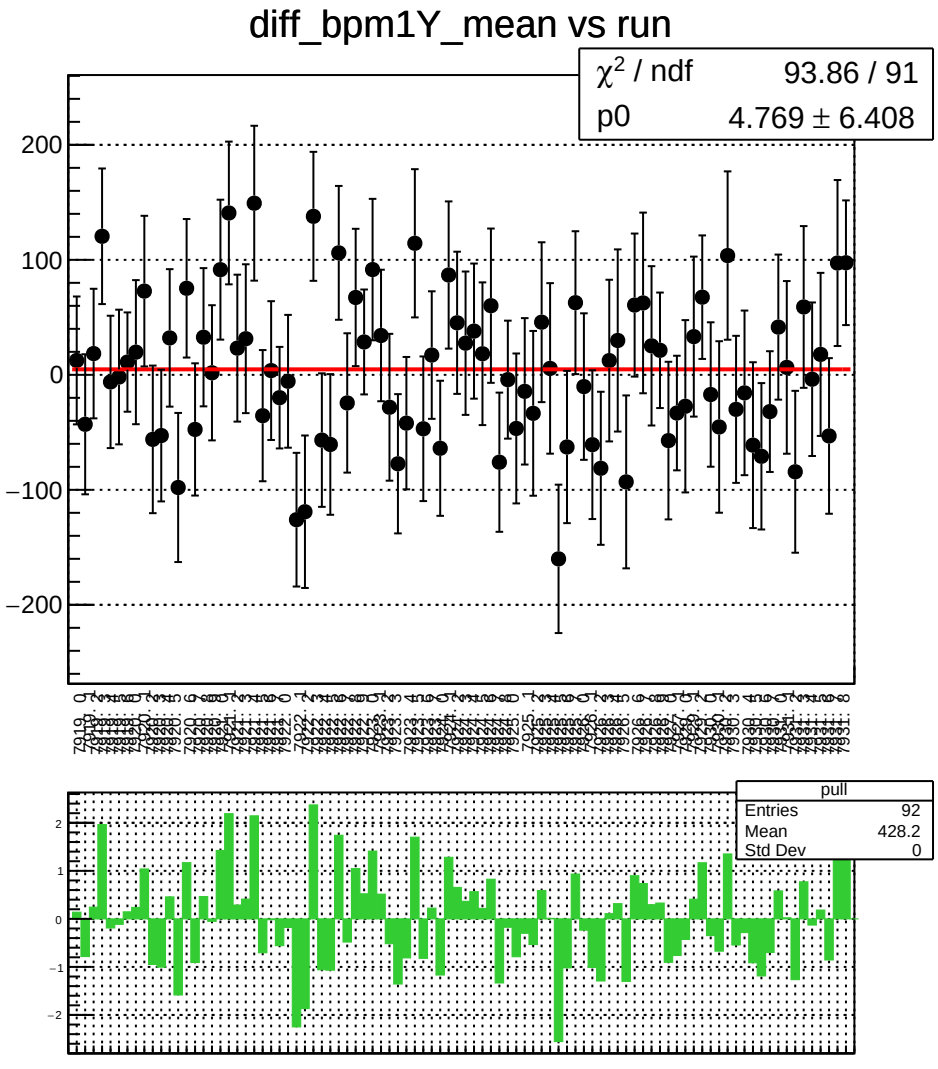

pull1D
Entries 92
Mean −0.008736
Std Dev 1.033

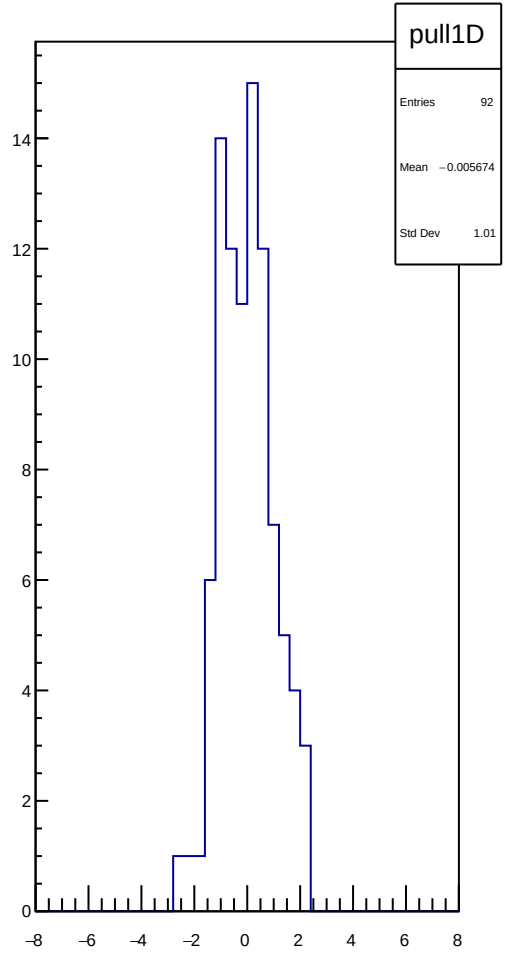

diff_bpm4ecY_rms vs run
χ² / ndf 1.39e+04 / 91
p0 5168 ± 3.886
6500
6000
5500
5000
4500

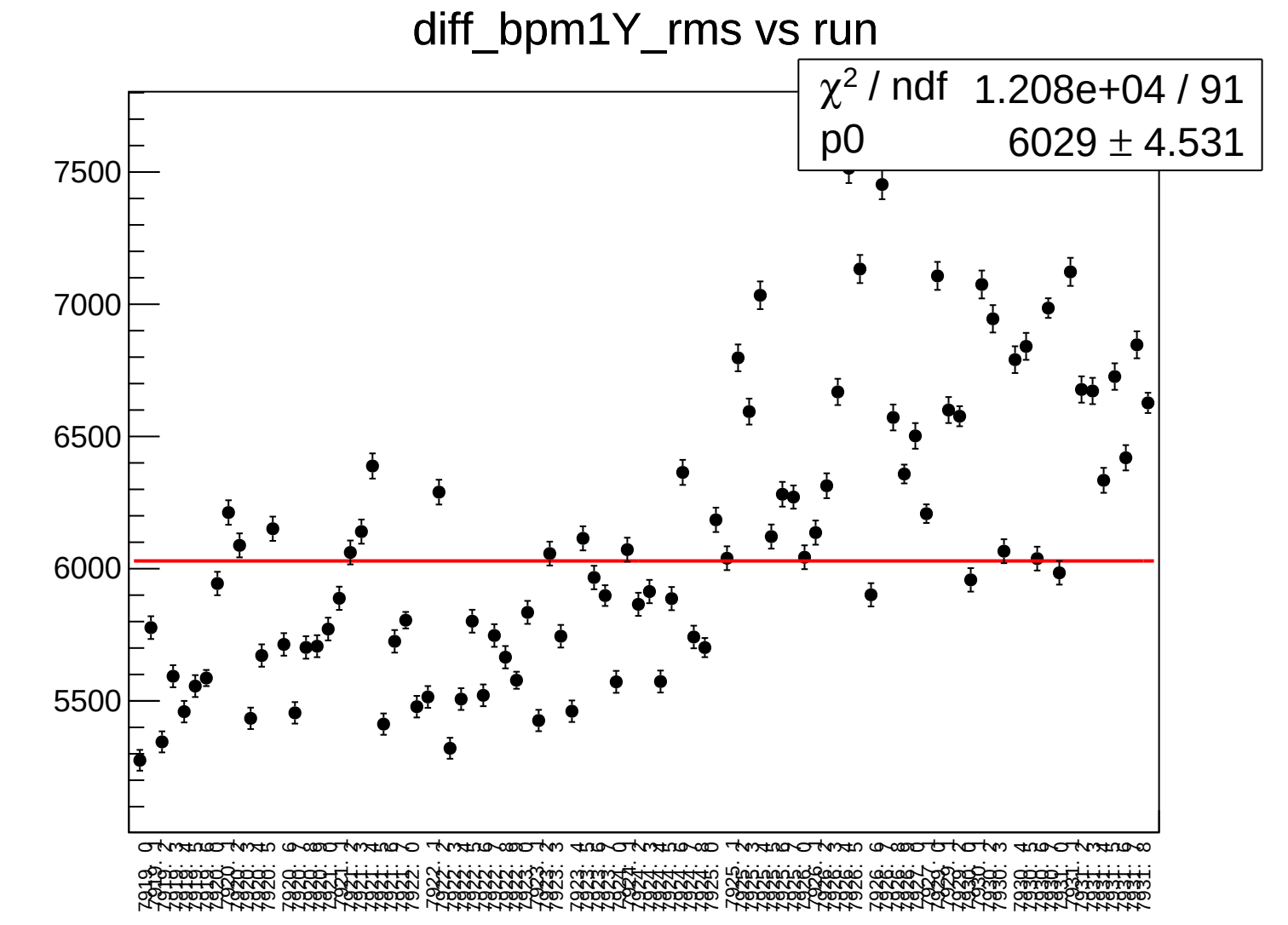

diff_bpm1X_mean vs run
χ² / ndf 100.3 / 91
p0 −45.09 ± 25.41
1000
500
0
−500
−1000
pull
Entries 92
Mean 4244
Std Dev 0
3
2
1
0
−1
−2

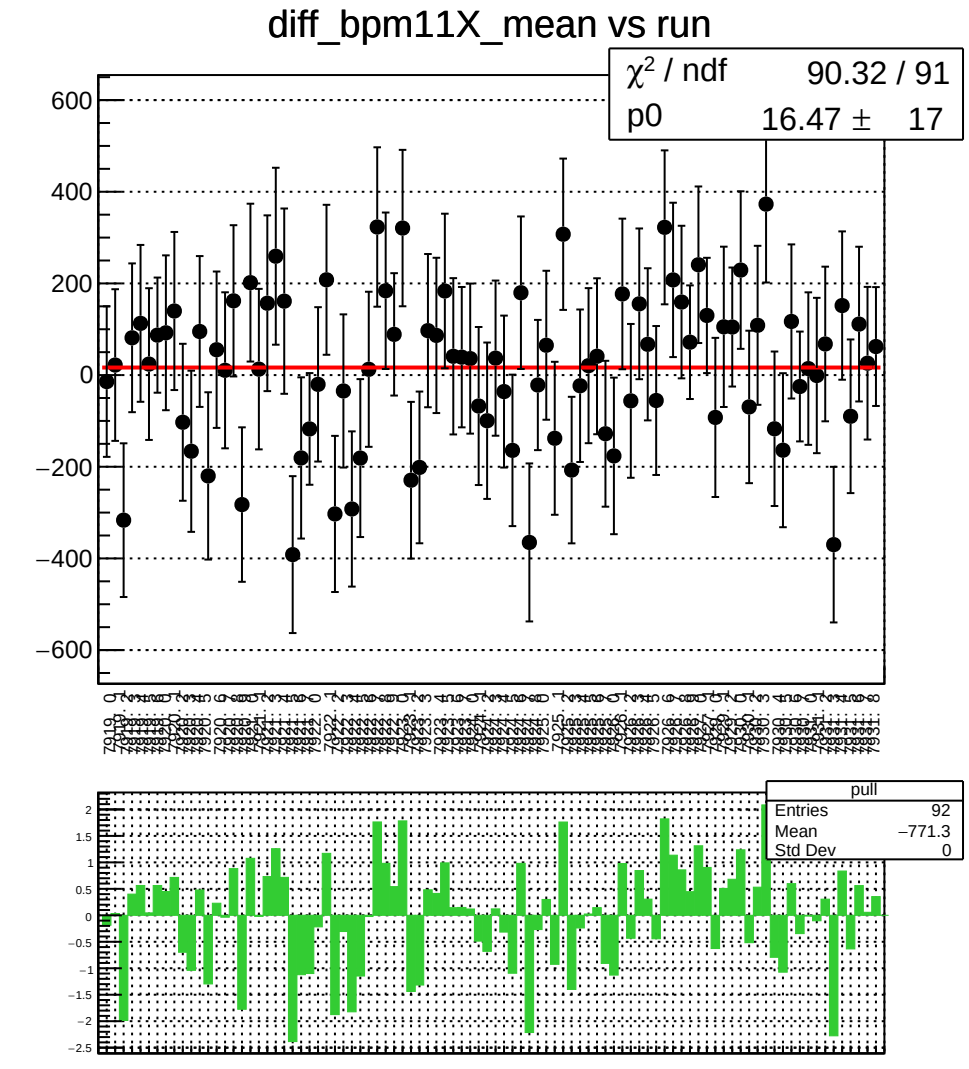

pull1D
Entries 92
Mean 0.0006605
Std Dev 1.044
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

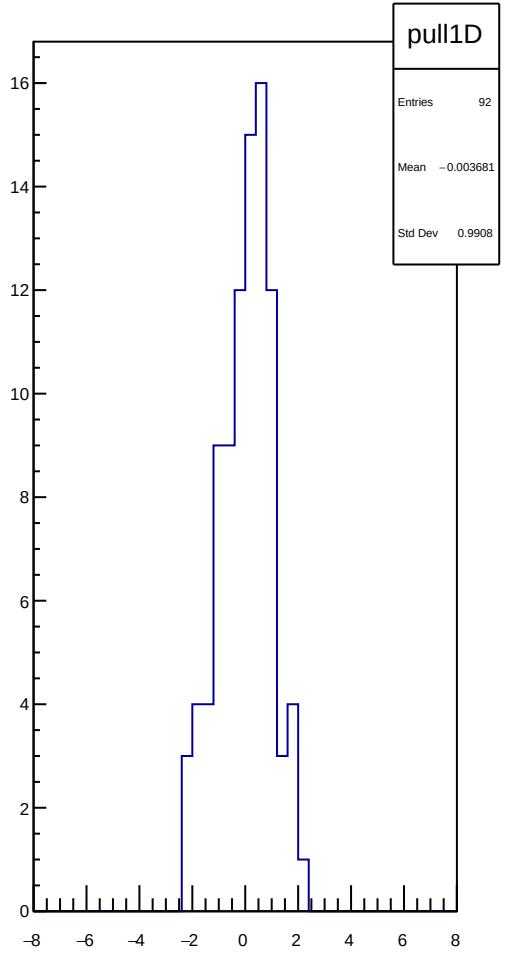

diff_bpm1X_rms vs run
χ² / ndf 4426 / 91
p0 2.397e+04 ± 17.97
28000
27000
26000
25000
24000
23000
22000
21000

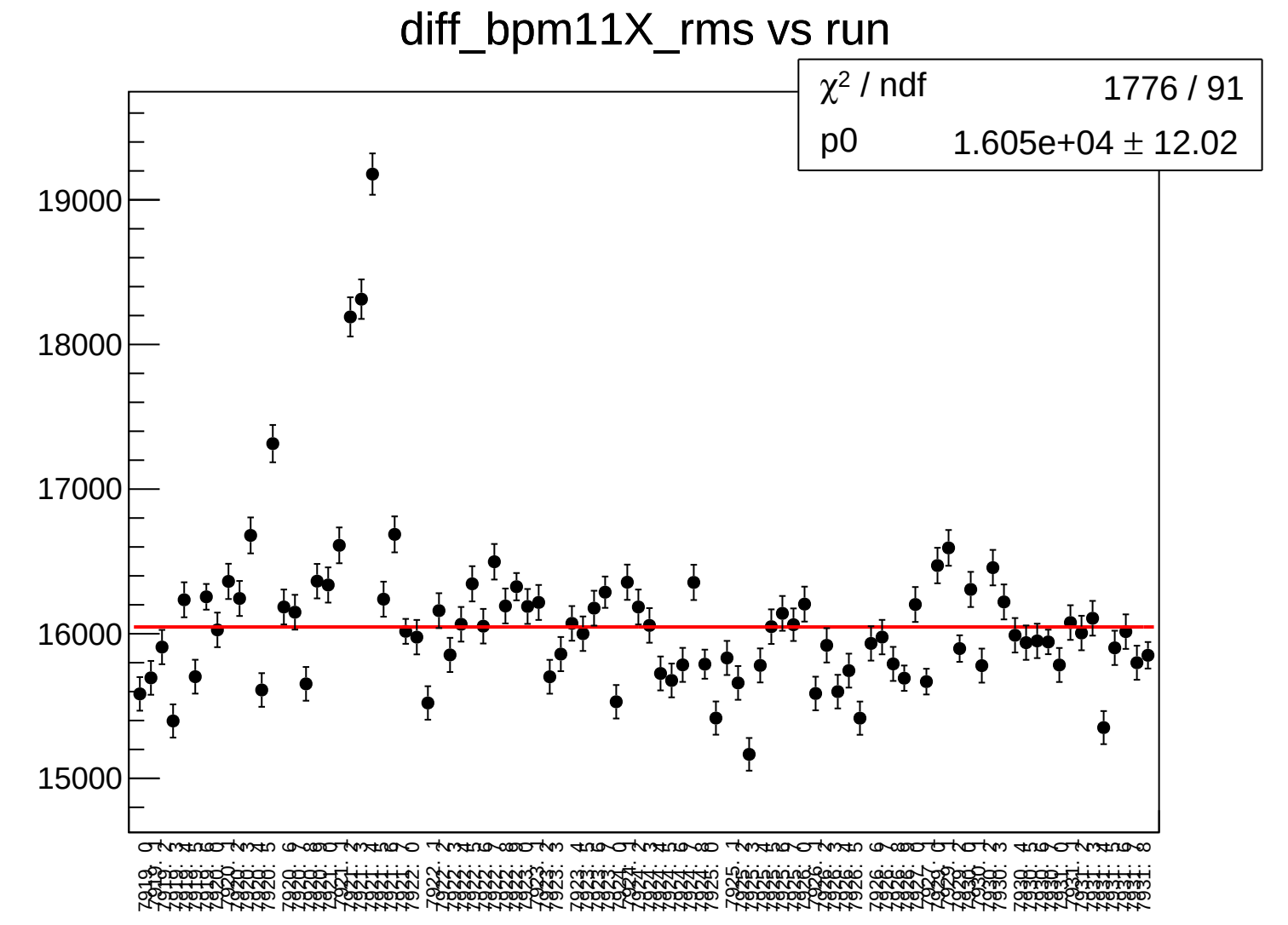

diff_bpm1Y_mean vs run
χ² / ndf 93.86 / 91
p0 4.769 ± 6.408
200
100
0
−100
−200
pull
Entries 92
Mean 428.2
Std Dev 0
2
1
0
−1
−2

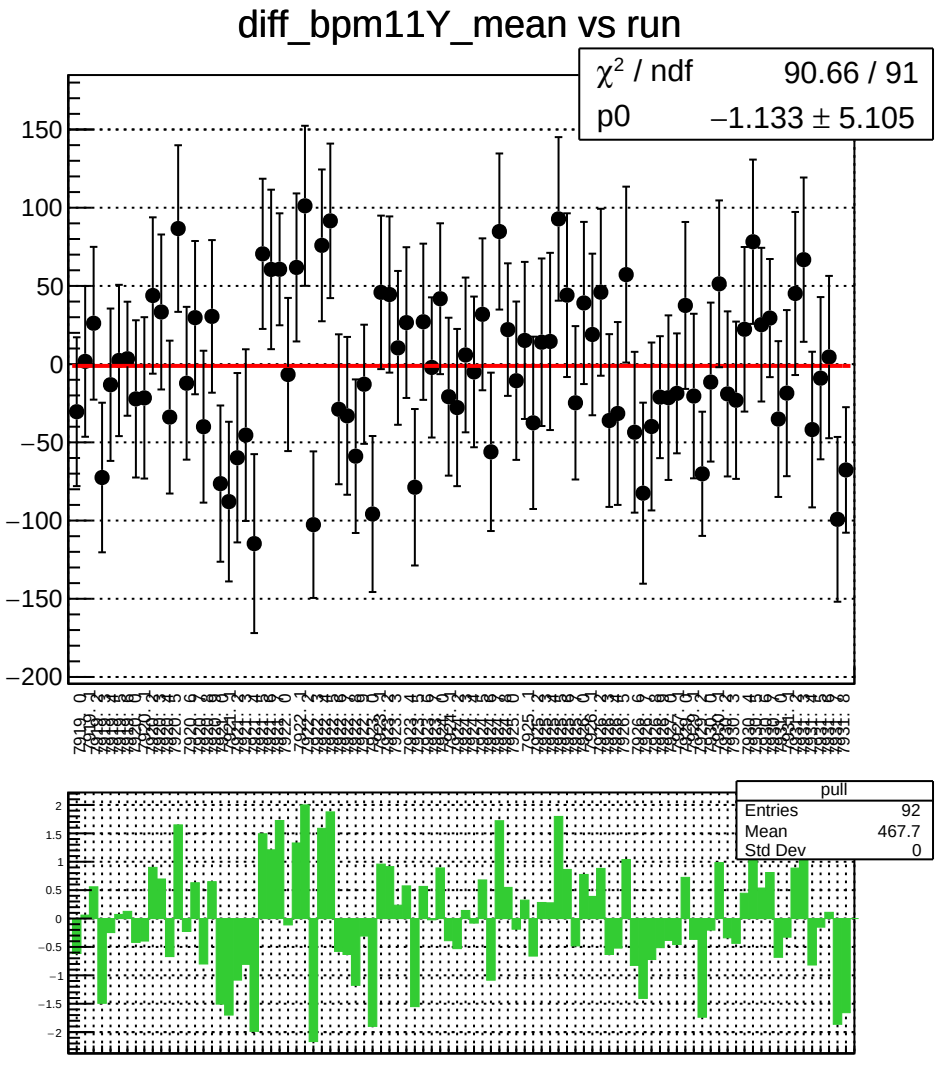

pull1D
Entries 92
Mean −0.005674
Std Dev 1.01
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

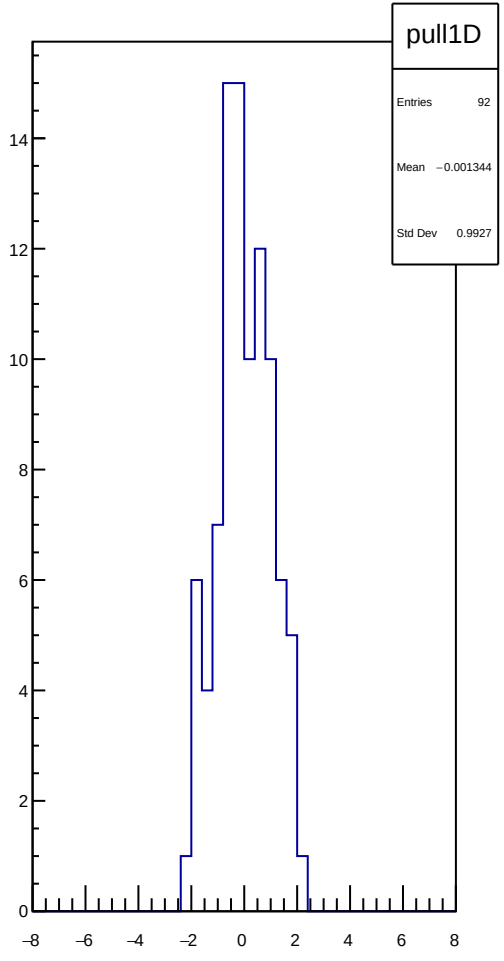

diff_bpm1Y_rms vs run
χ^2 / ndf 1.208e+04 / 91
p0 6029 ± 4.531
7500
7000
6500
6000
5500

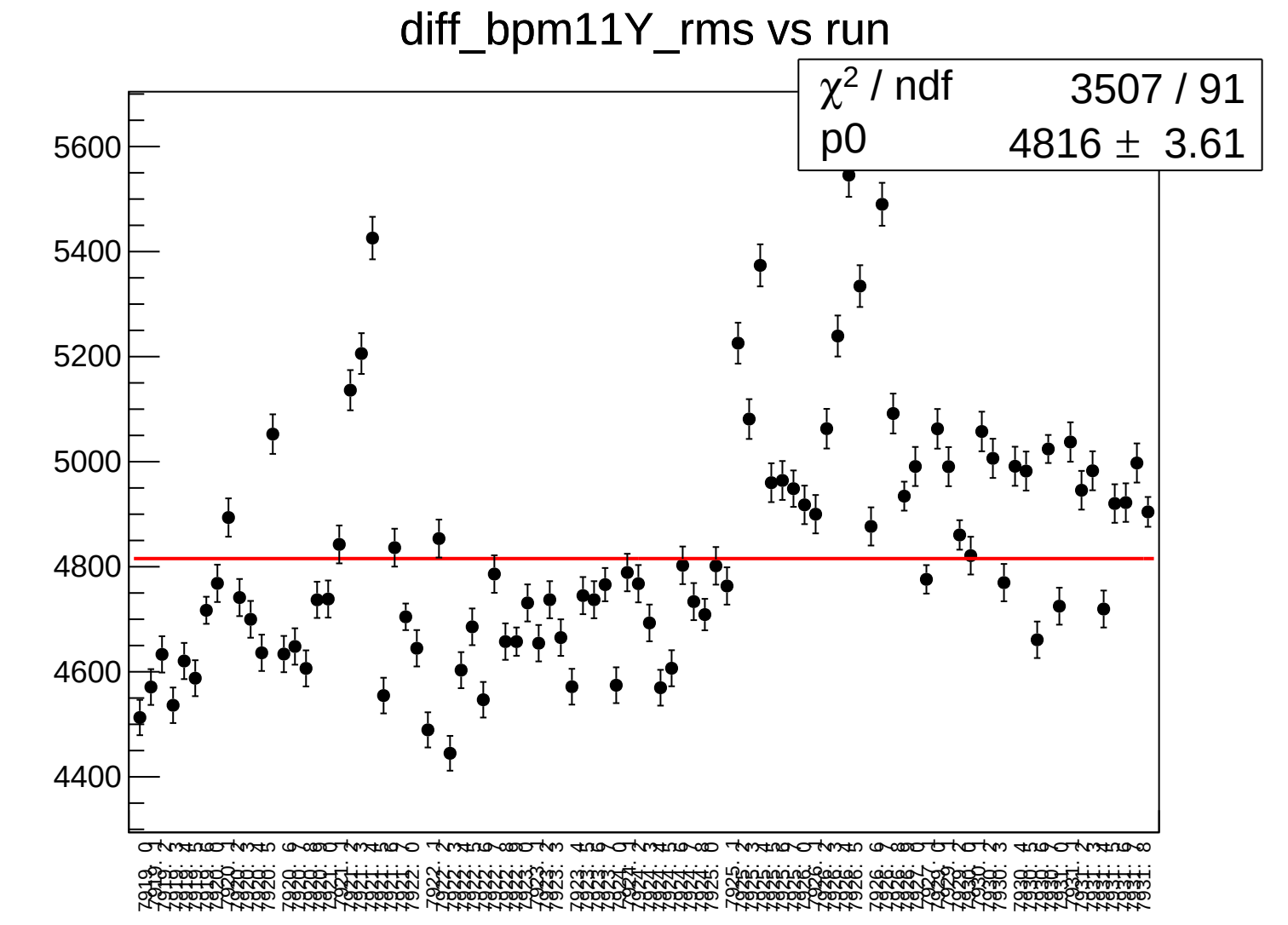

diff_bpm11X_mean vs run
χ² / ndf 90.32 / 91
p0 16.47 ± 17
pull
Entries 92
Mean −771.3
Std Dev 0

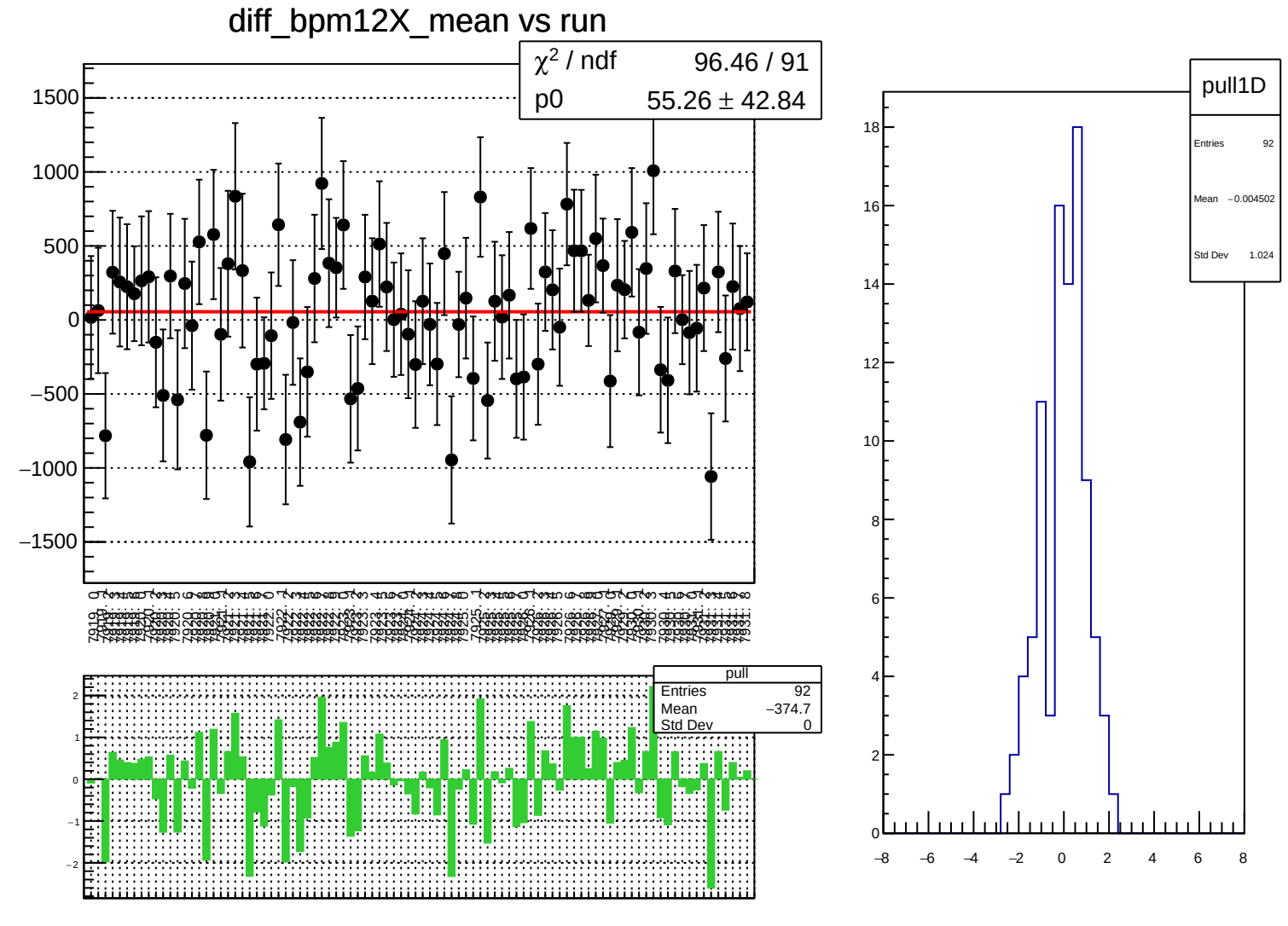

pull1D
Entries 92
Mean −0.003681
Std Dev 0.9908

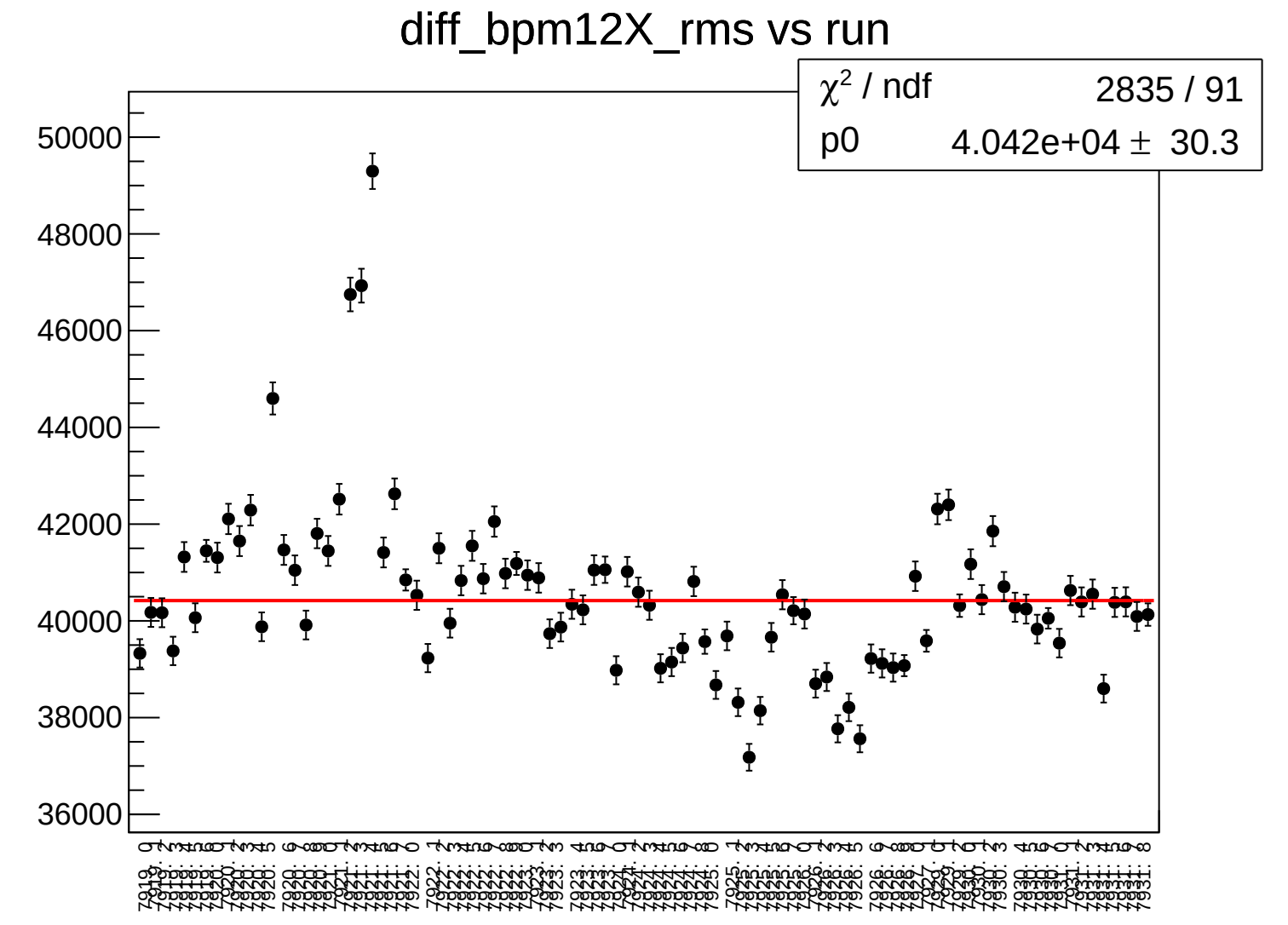

diff_bpm11X_rms vs run
χ² / ndf 1776 / 91
p0 1.605e+04 ± 12.02
19000
18000
17000
16000
15000

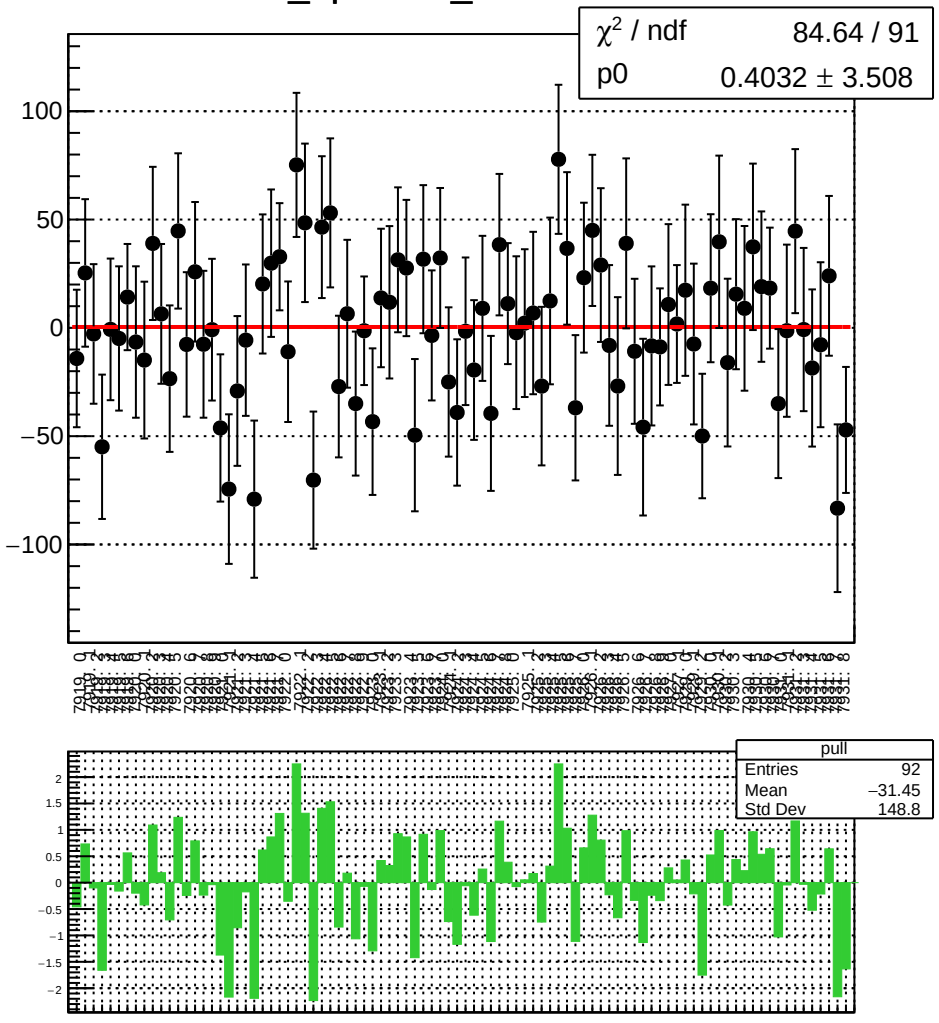

diff_bpm11Y_mean vs run
χ² / ndf 90.66 / 91
p0 −1.133 ± 5.105
pull
Entries 92
Mean 467.7
Std Dev 0

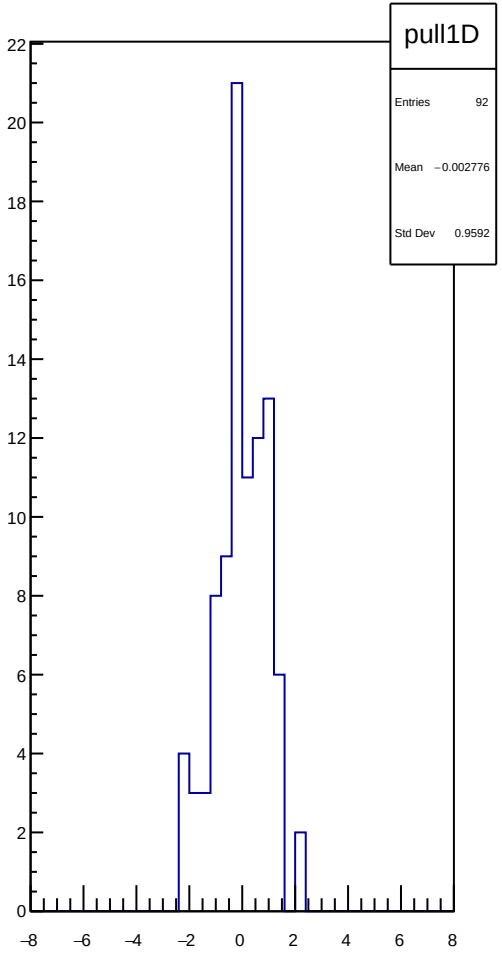

pull1D
Entries 92
Mean −0.001344
Std Dev 0.9927

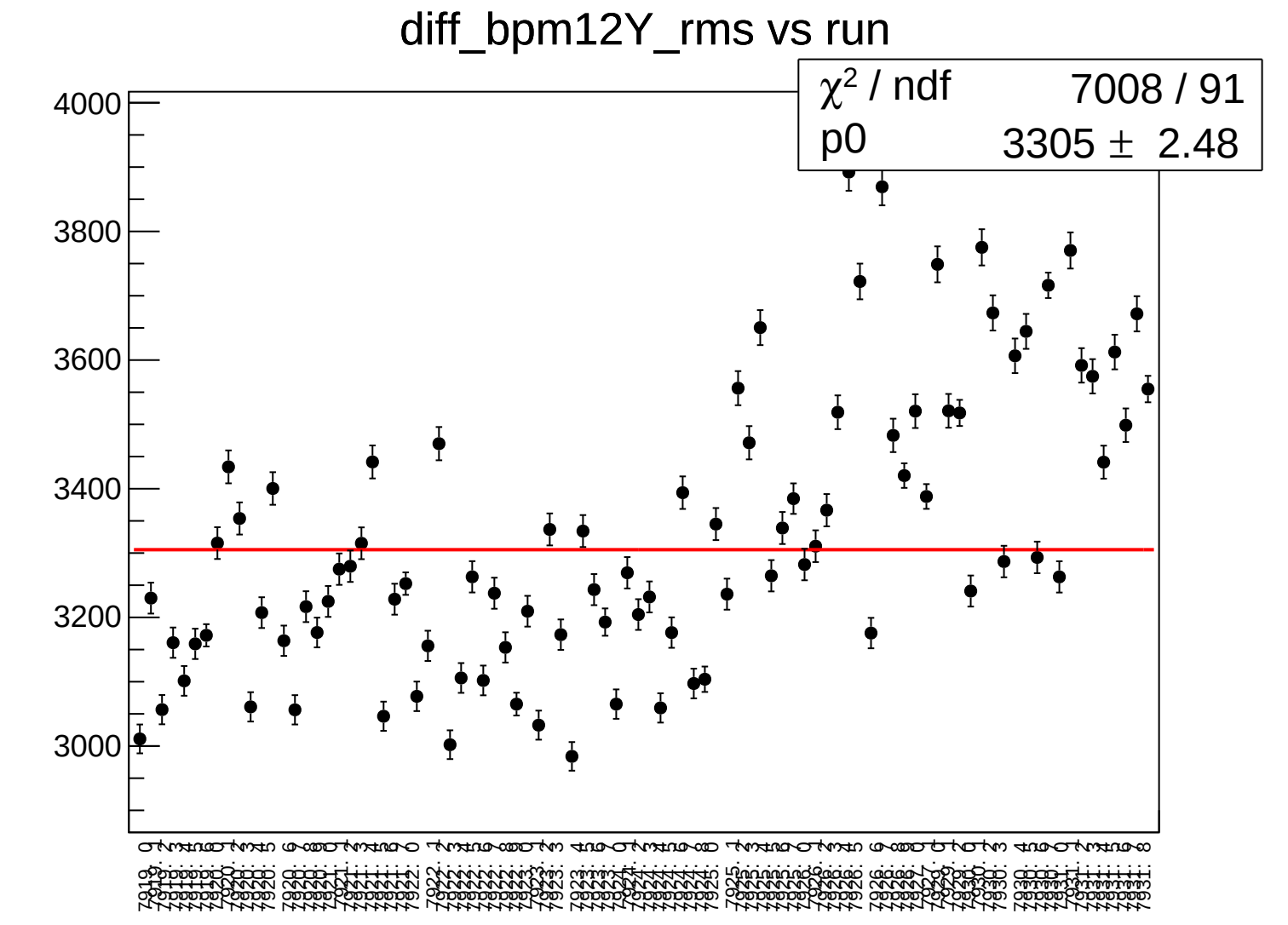

diff_bpm11Y_rms vs run
χ^2 / ndf 3507 / 91
p0 4816 ± 3.61
5600
5400
5200
5000
4800
4600
4400

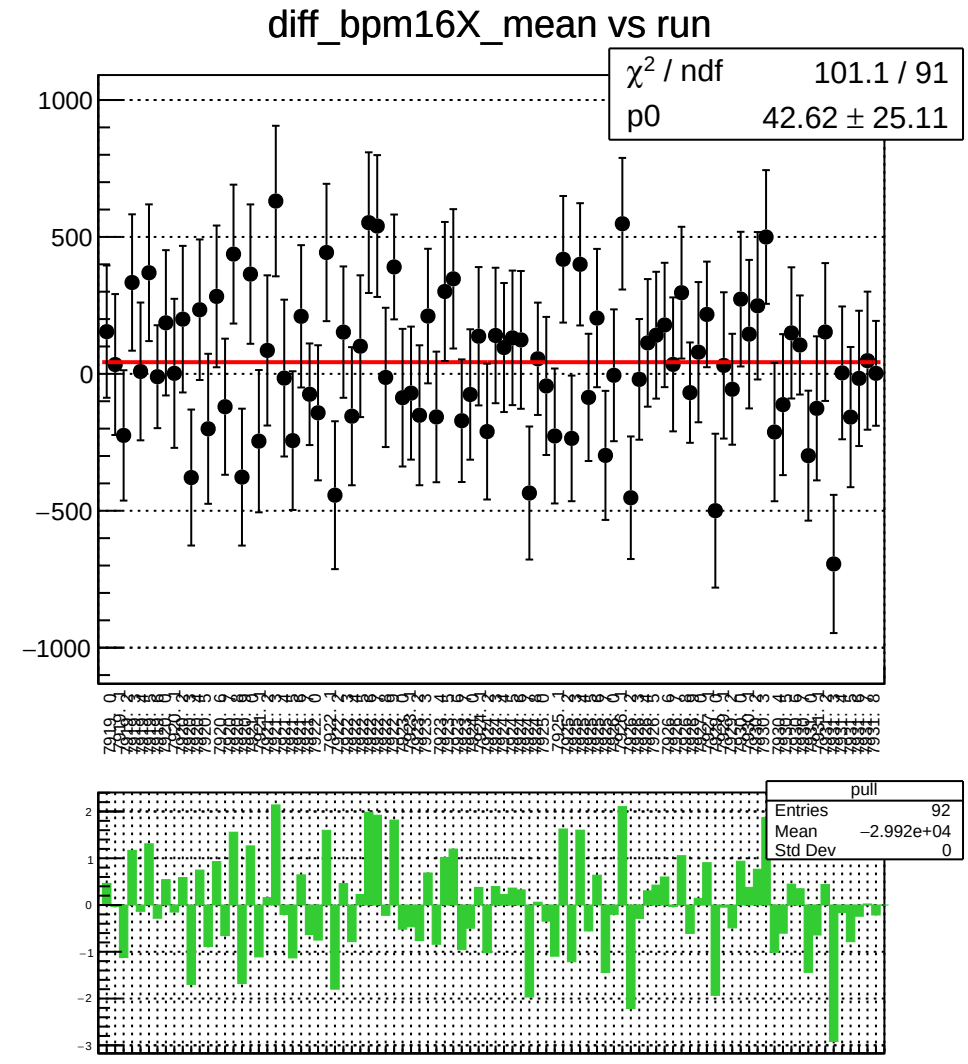

diff_bpm12X_mean vs run
χ² / ndf 96.46 / 91
p0 55.26 ± 42.84
1500
1000
500
0
−500
−1000
−1500
pull
Entries 92
Mean −374.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.004502
Std Dev 1.024
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

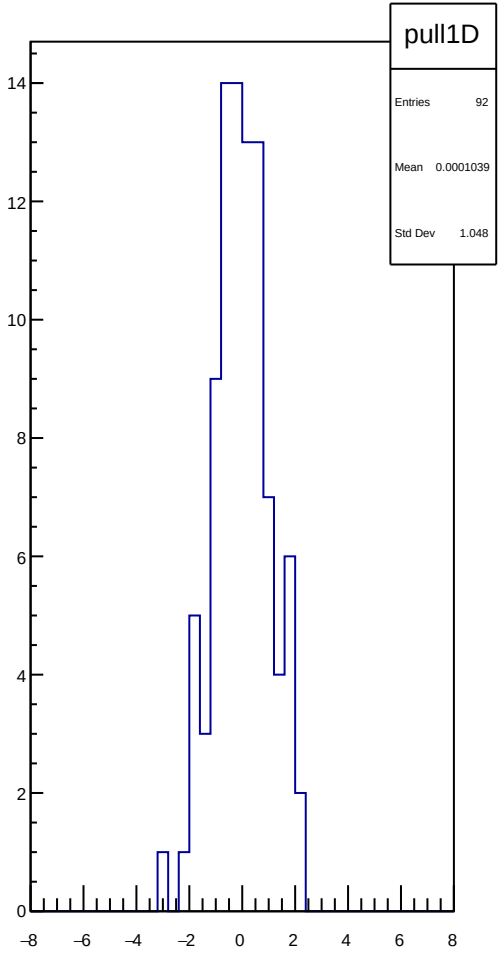

diff_bpm12X_rms vs run
χ² / ndf 2835 / 91
p0 4.042e+04 ± 30.3
50000
48000
46000
44000
42000
40000
38000
36000

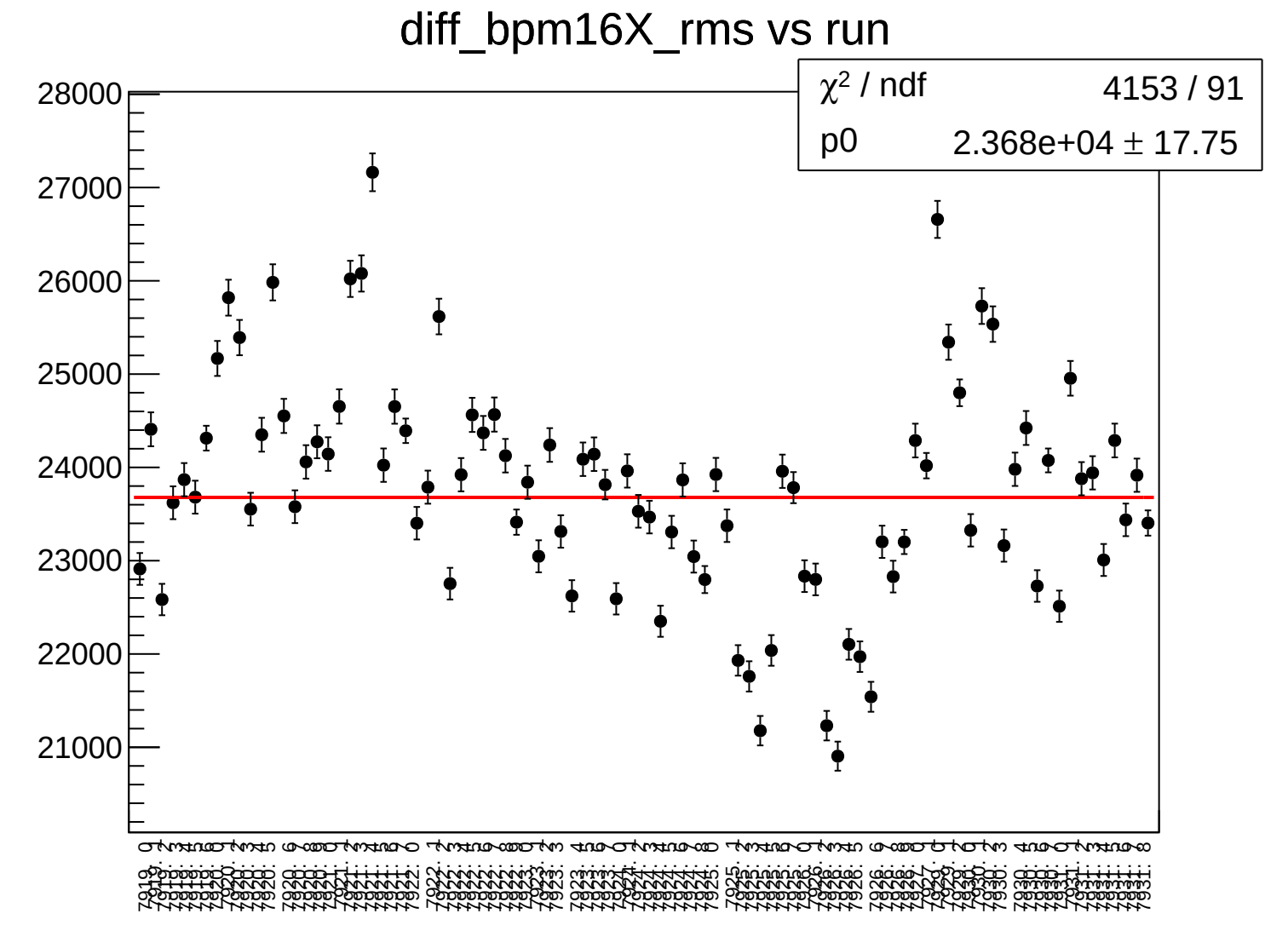

diff_bpm12Y_mean vs run
χ² / ndf 84.64 / 91
p0 0.4032 ± 3.508
100
50
0
−50
−100
pull
Entries 92
Mean −31.45
Std Dev 148.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

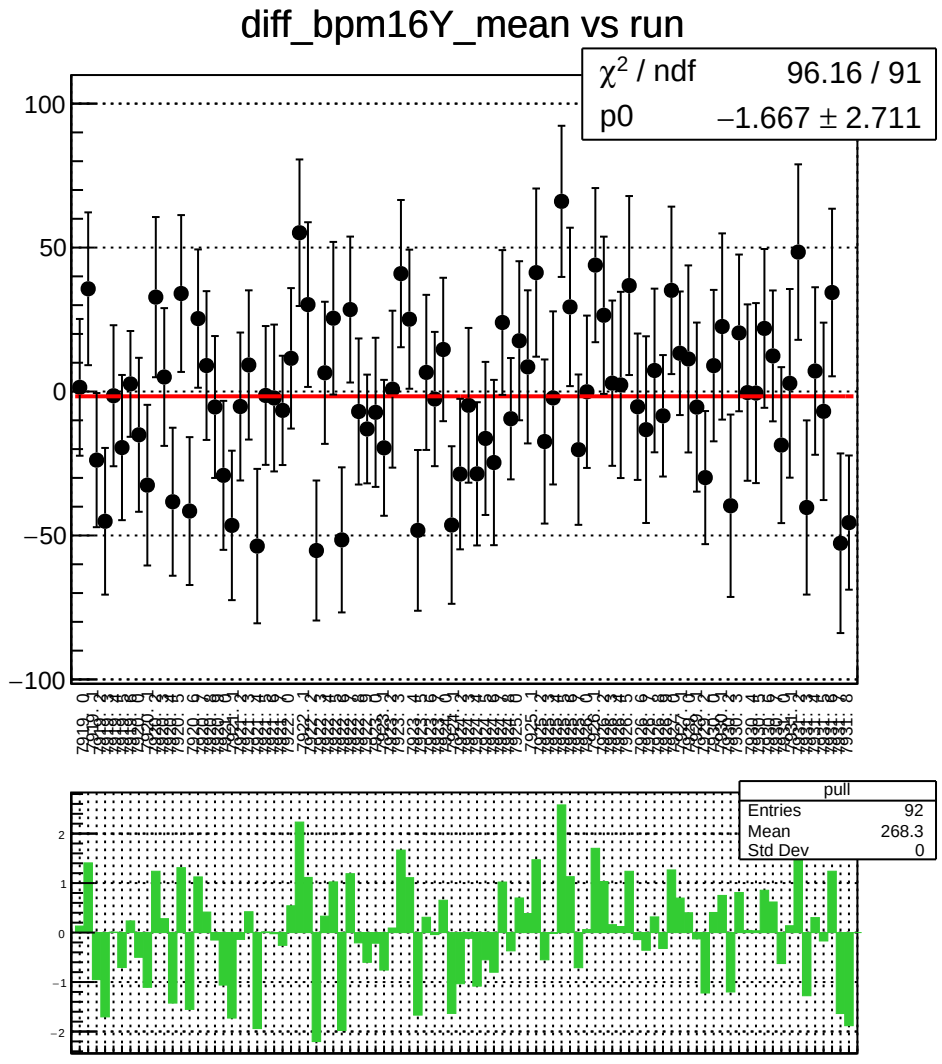

pull1D
Entries 92
Mean −0.002776
Std Dev 0.9592
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

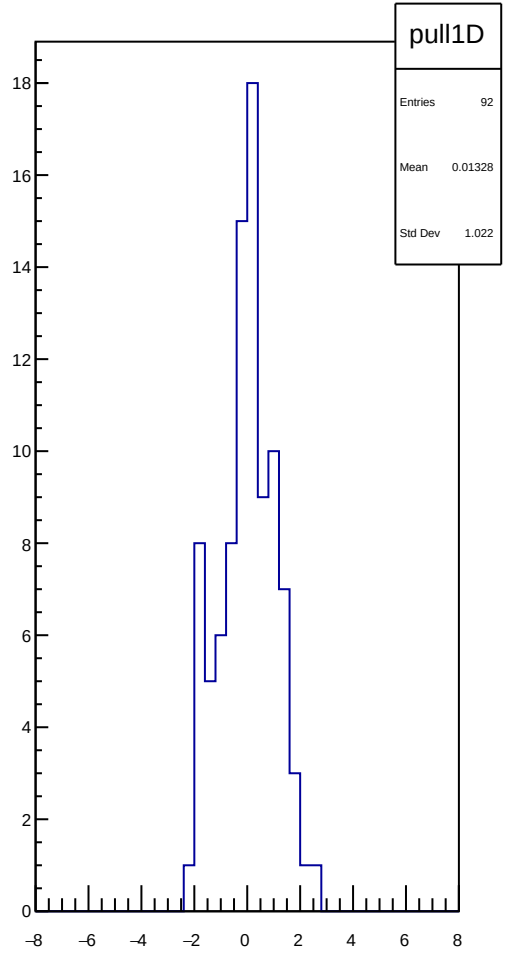

diff_bpm12Y_rms vs run
χ² / ndf 7008 / 91
p0 3305 ± 2.48
4000
3800
3600
3400
3200
3000

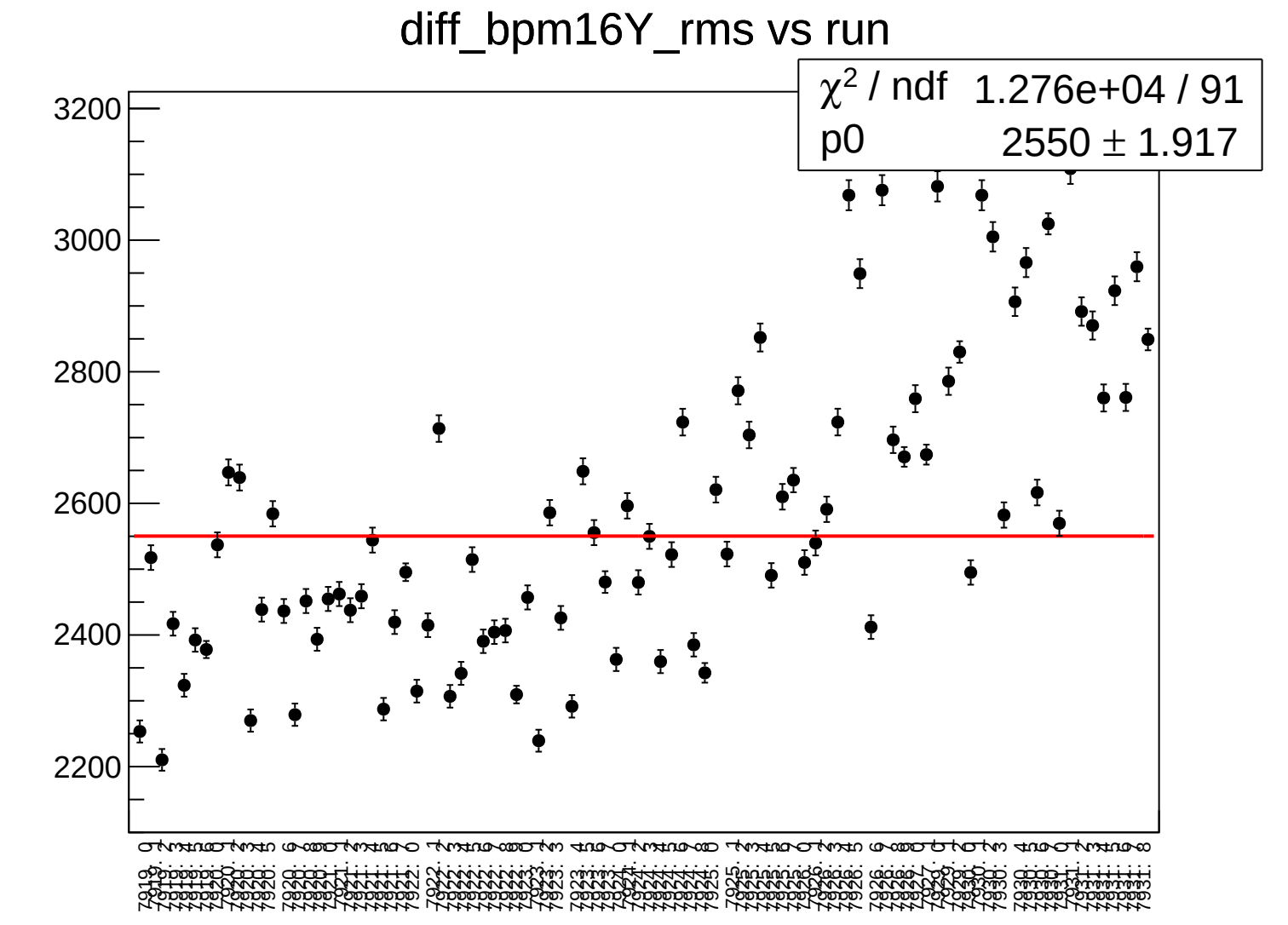

diff_bpm16X_mean vs run
χ² / ndf 101.1 / 91
p0 42.62 ± 25.11
1000
500
0
−500
−1000
pull
Entries 92
Mean −2.992e+04
Std Dev 0
2
1
0
−1
−2
−3

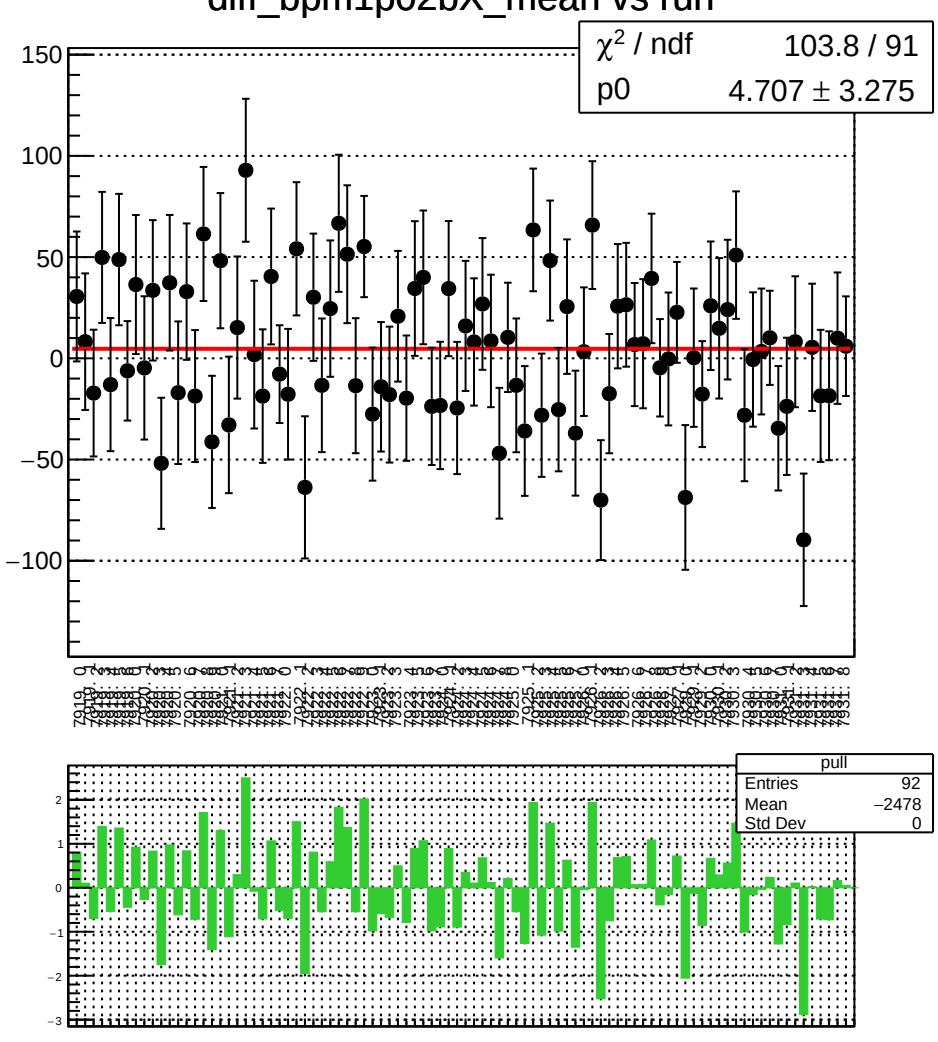

pull1D
Entries 92
Mean 0.0001039
Std Dev 1.048
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

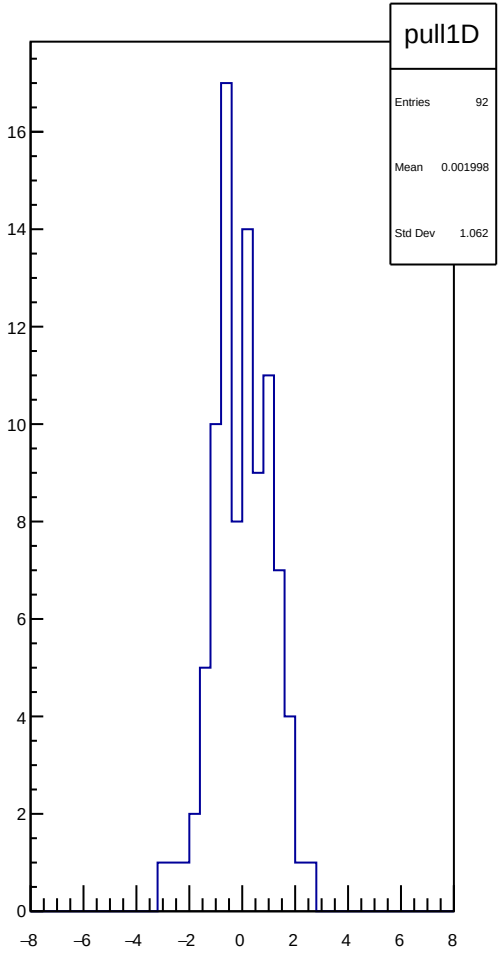

diff_bpm16X_rms vs run
χ² / ndf 4153 / 91
p0 2.368e+04 ± 17.75
28000
27000
26000
25000
24000
23000
22000
21000

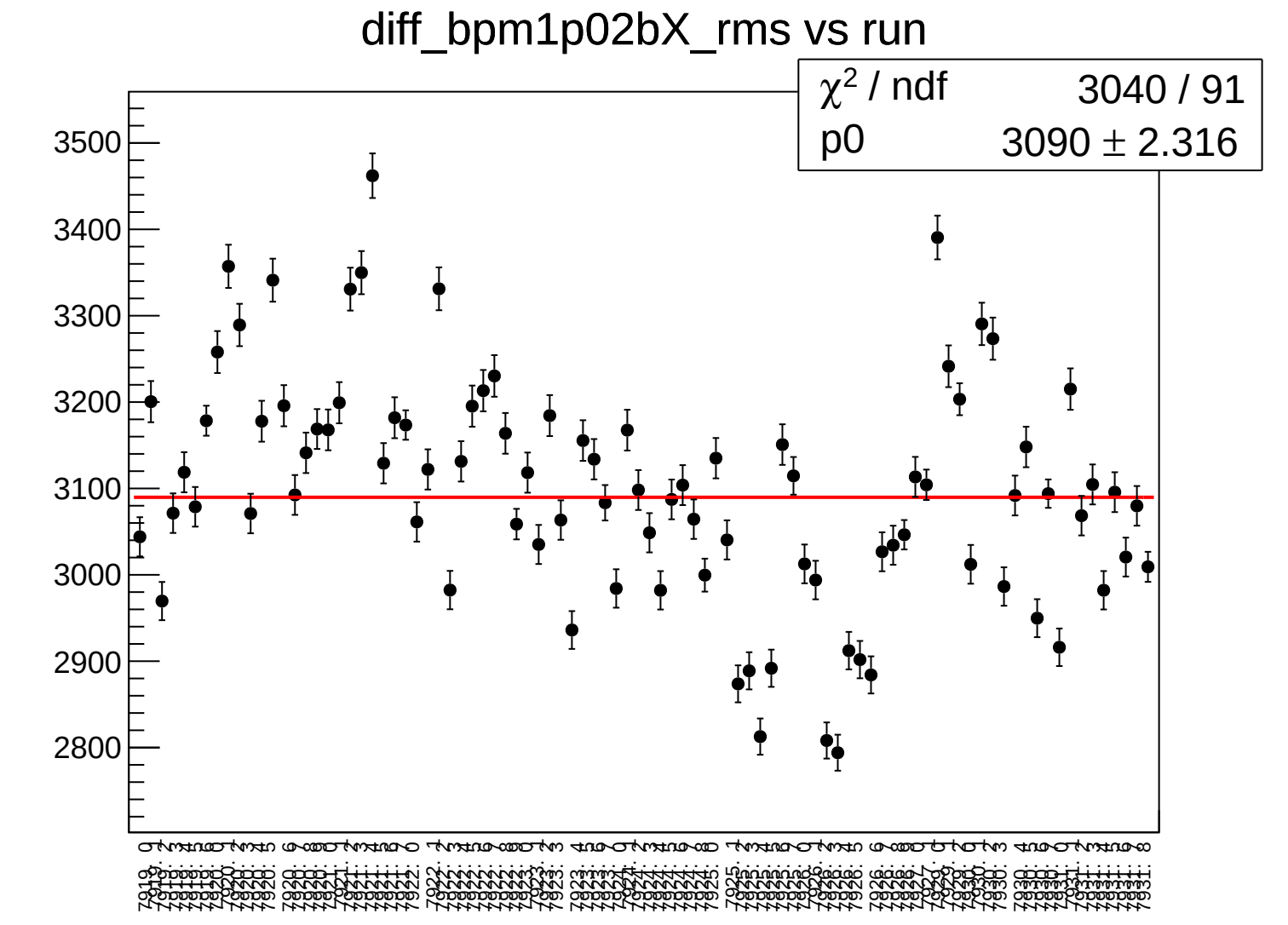

diff_bpm16Y_mean vs run
χ² / ndf 96.16 / 91
p0 −1.667 ± 2.711
100
50
0
−50
−100
pull
Entries 92
Mean 268.3
Std Dev 0
2
1
0
−1
−2

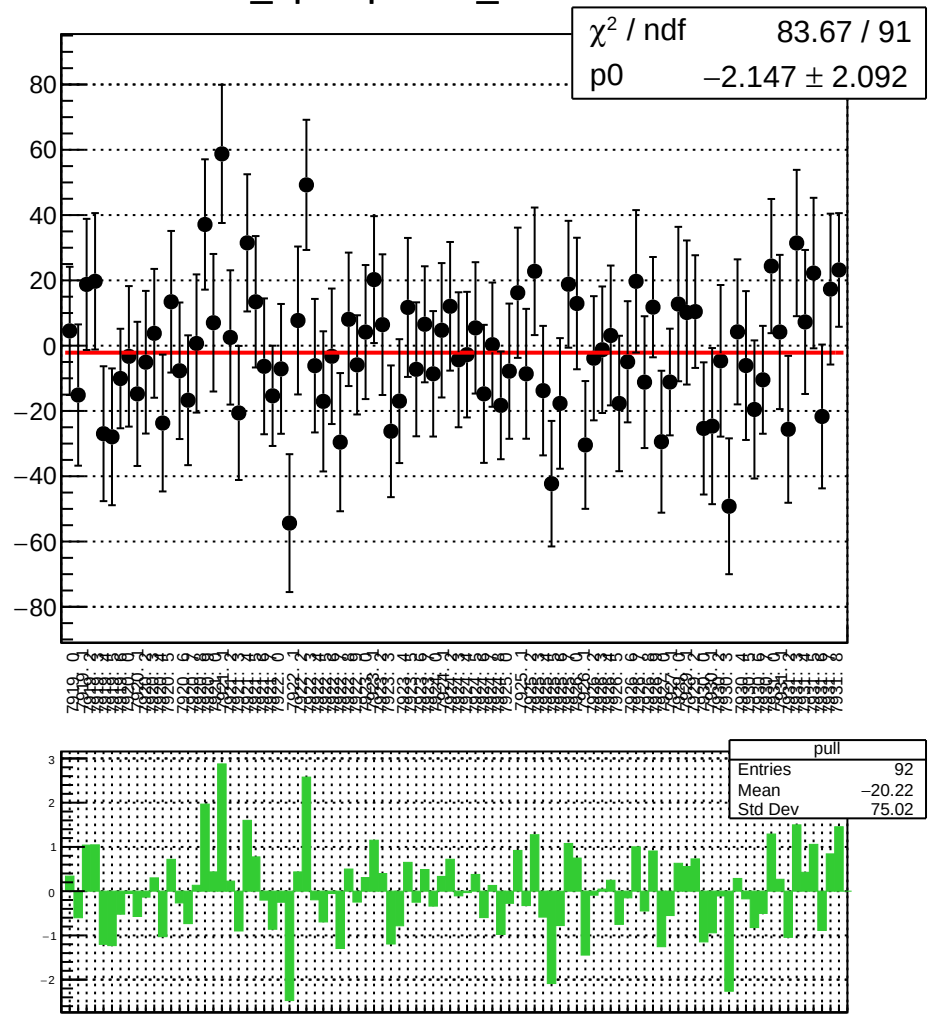

pull1D
Entries 92
Mean 0.01328
Std Dev 1.022
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

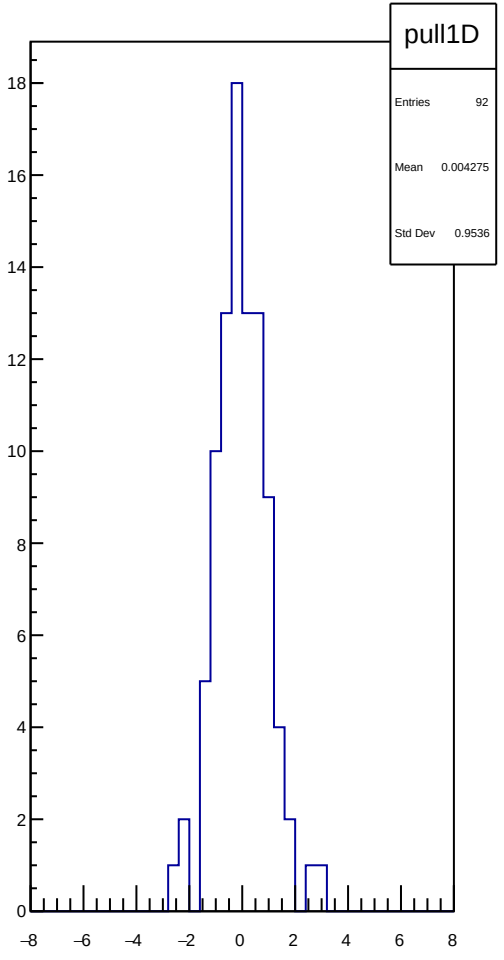

diff_bpm16Y_rms vs run
χ² / ndf 1.276e+04 / 91
p0 2550 ± 1.917
3200
3000
2800
2600
2400
2200

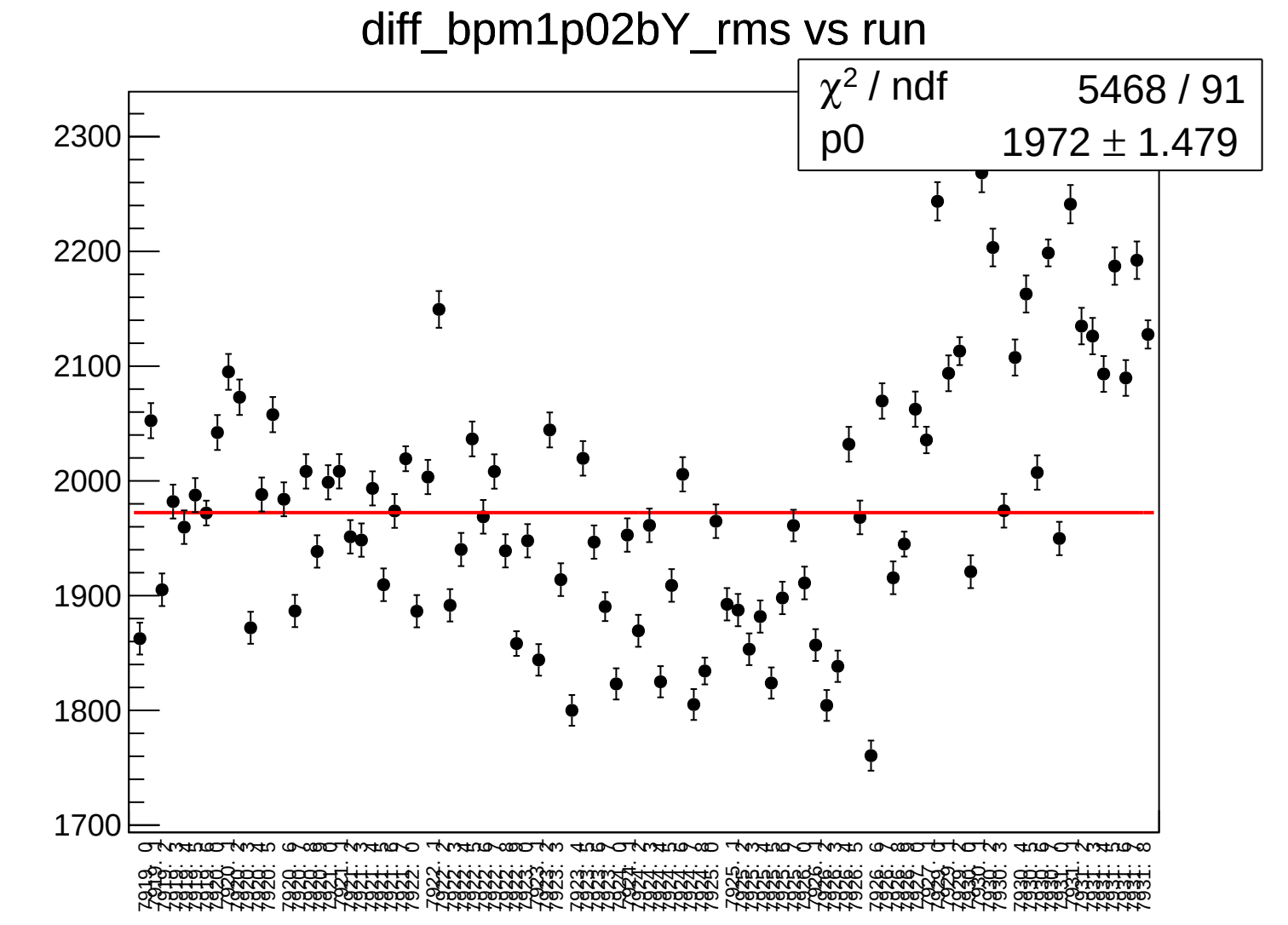

diff_bpm1p02bX_mean vs run
χ^2 / ndf 103.8 / 91
p0 4.707 ± 3.275
pull
Entries 92
Mean −2478
Std Dev 0

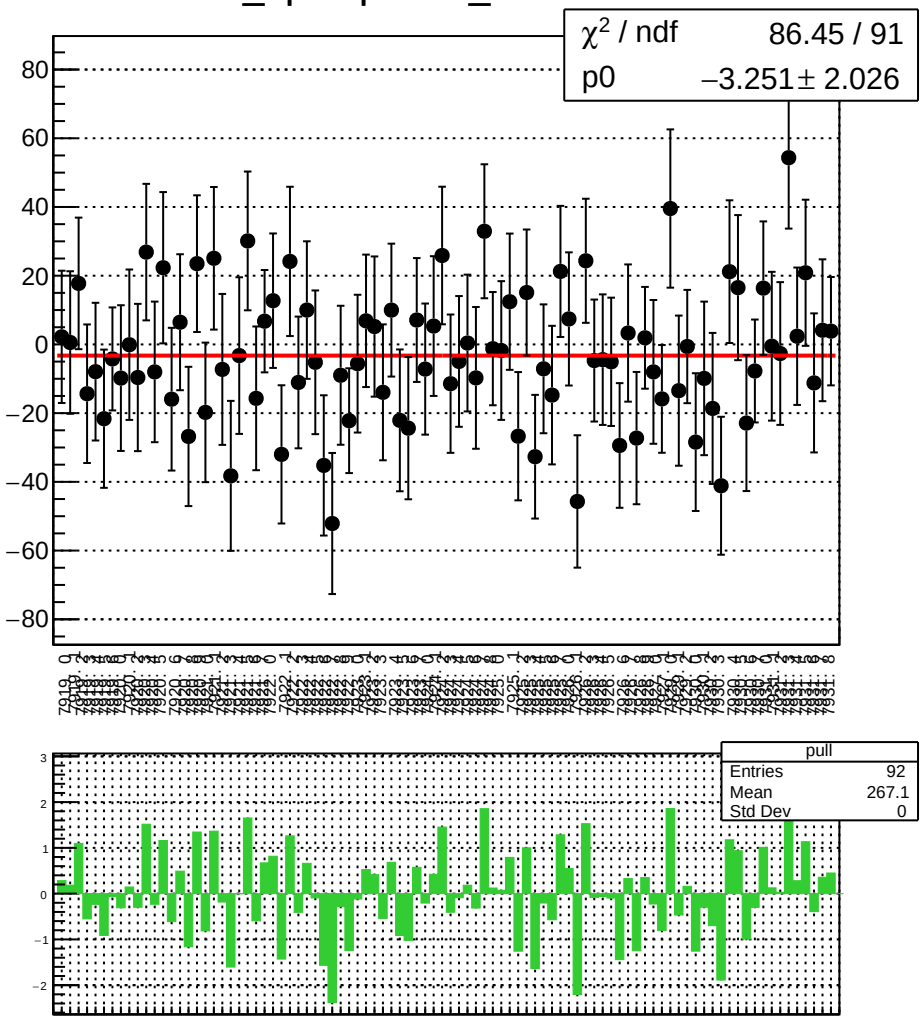

pull1D
Entries 92
Mean 0.001998
Std Dev 1.062

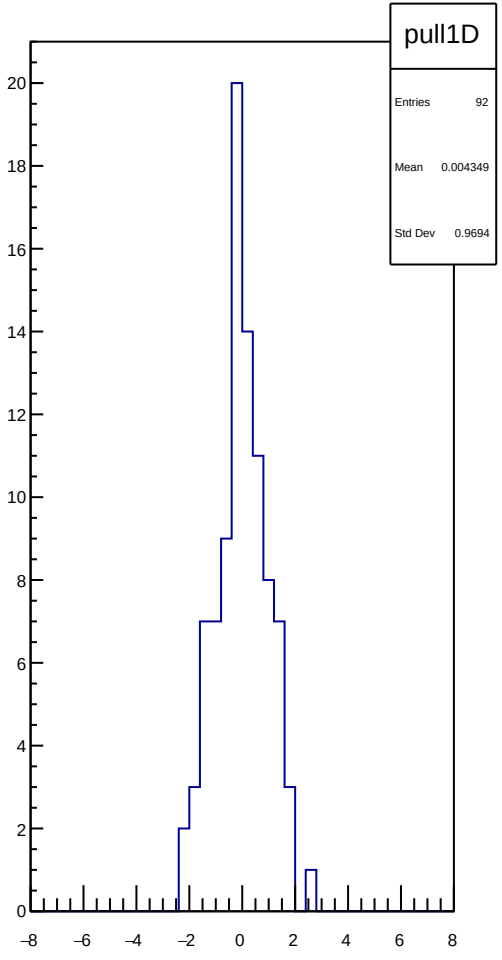

diff_bpm1p02bX_rms vs run
χ² / ndf 3040 / 91
p0 3090 ± 2.316
3500
3400
3300
3200
3100
3000
2900
2800

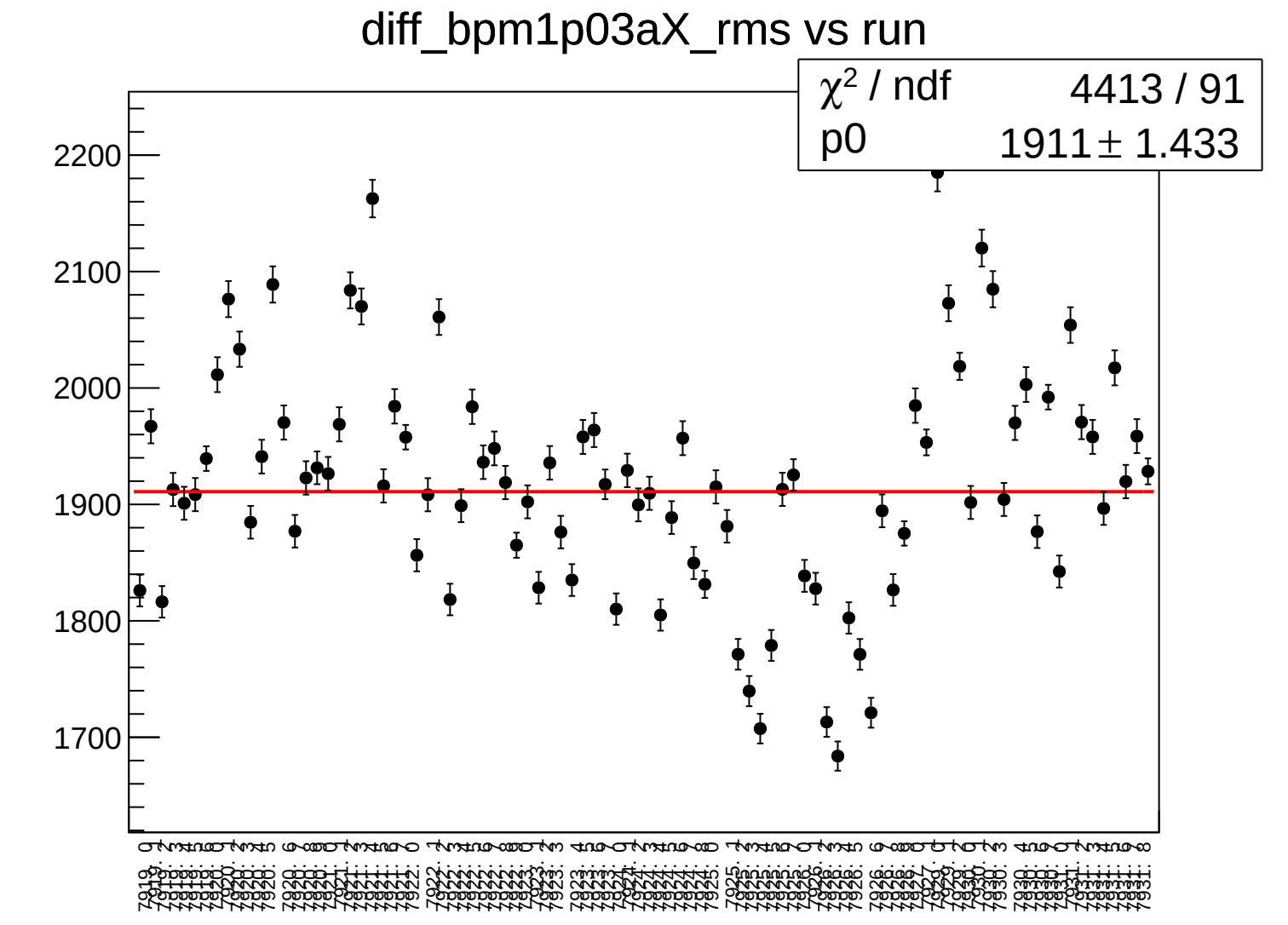

diff_bpm1p02bY_mean vs run
χ² / ndf 83.67 / 91
p0 −2.147 ± 2.092
pull
Entries 92
Mean −20.22
Std Dev 75.02

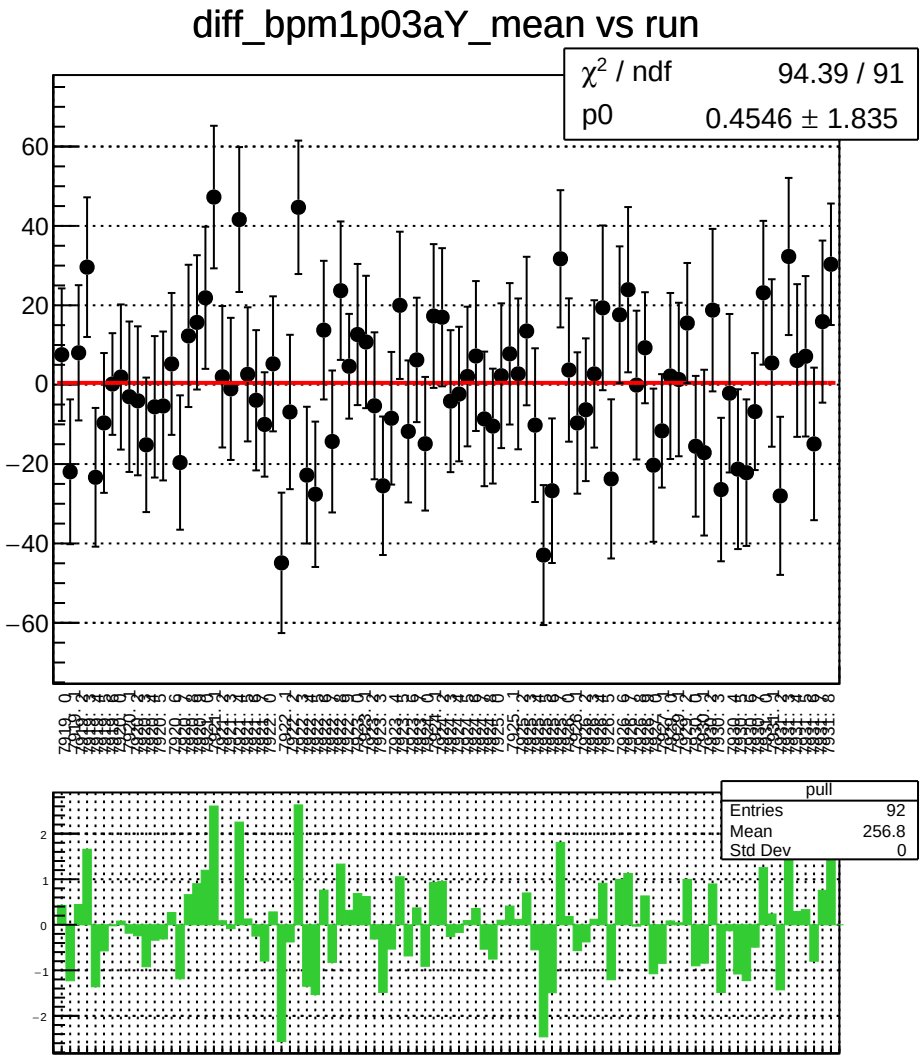

pull1D
Entries 92
Mean 0.004275
Std Dev 0.9536

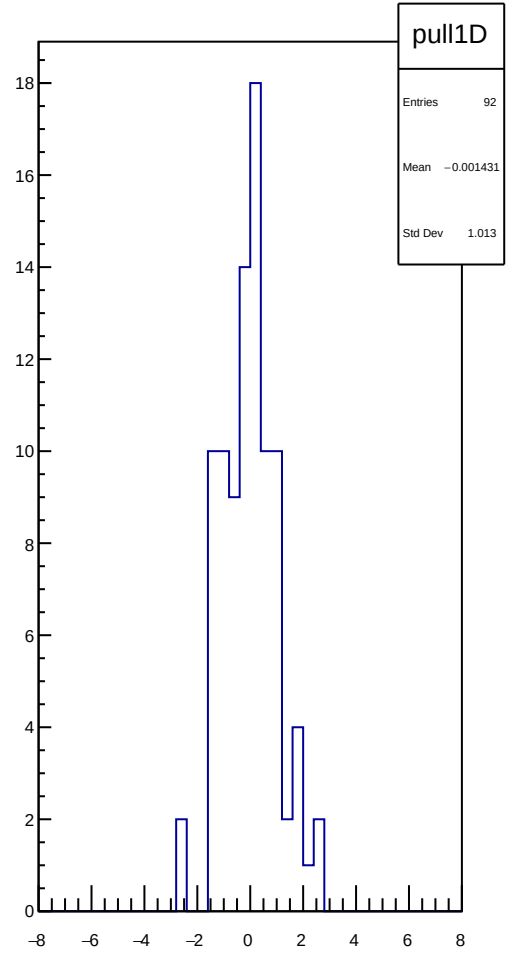

diff_bpm1p02bY_rms vs run
χ^2 / ndf 5468 / 91
p0 1972 ± 1.479
2300
2200
2100
2000
1900
1800
1700

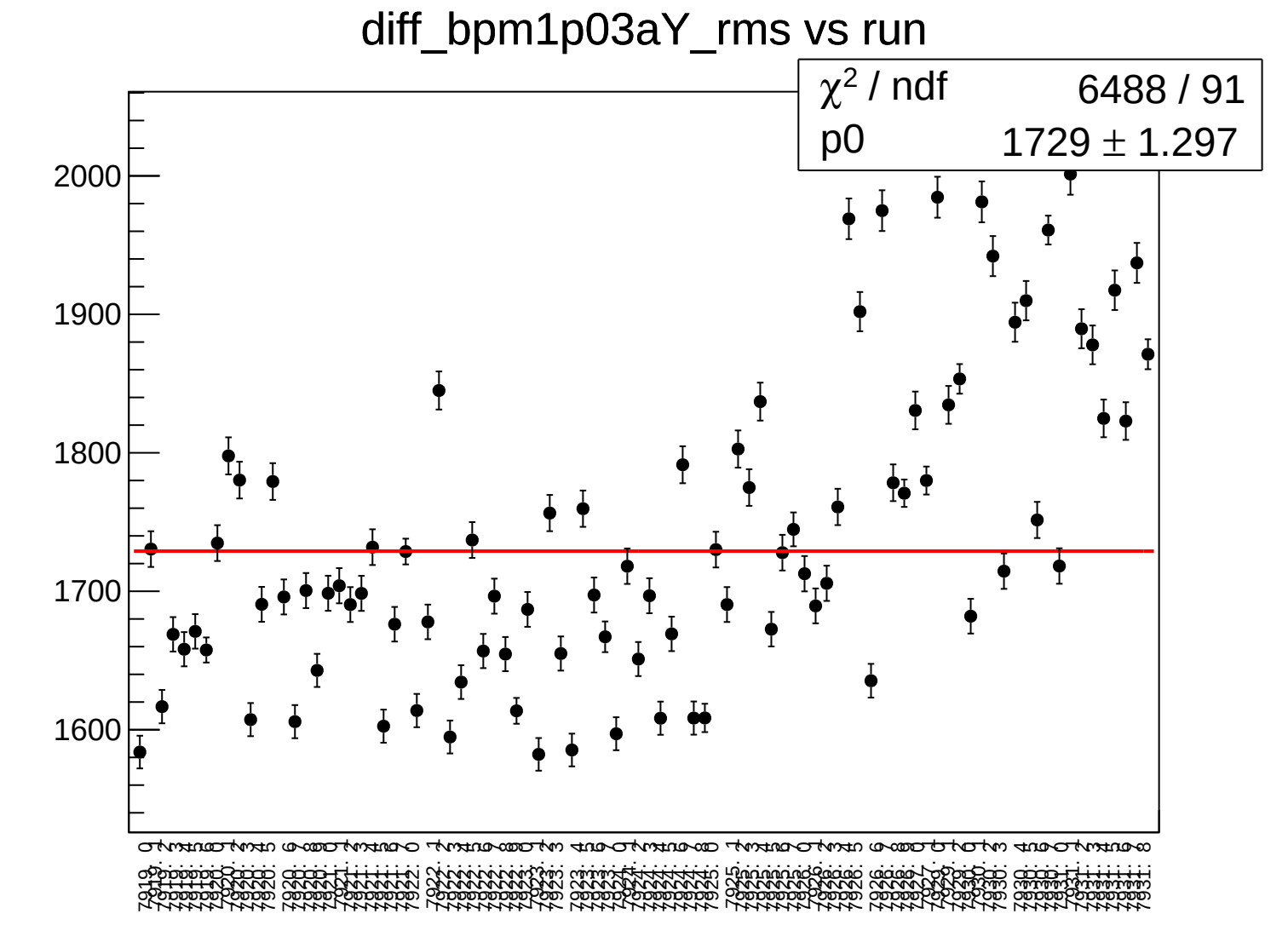

diff_bpm1p03aX_mean vs run
χ² / ndf 86.45 / 91
p0 −3.251 ± 2.026
pull
Entries 92
Mean 267.1
Std Dev 0

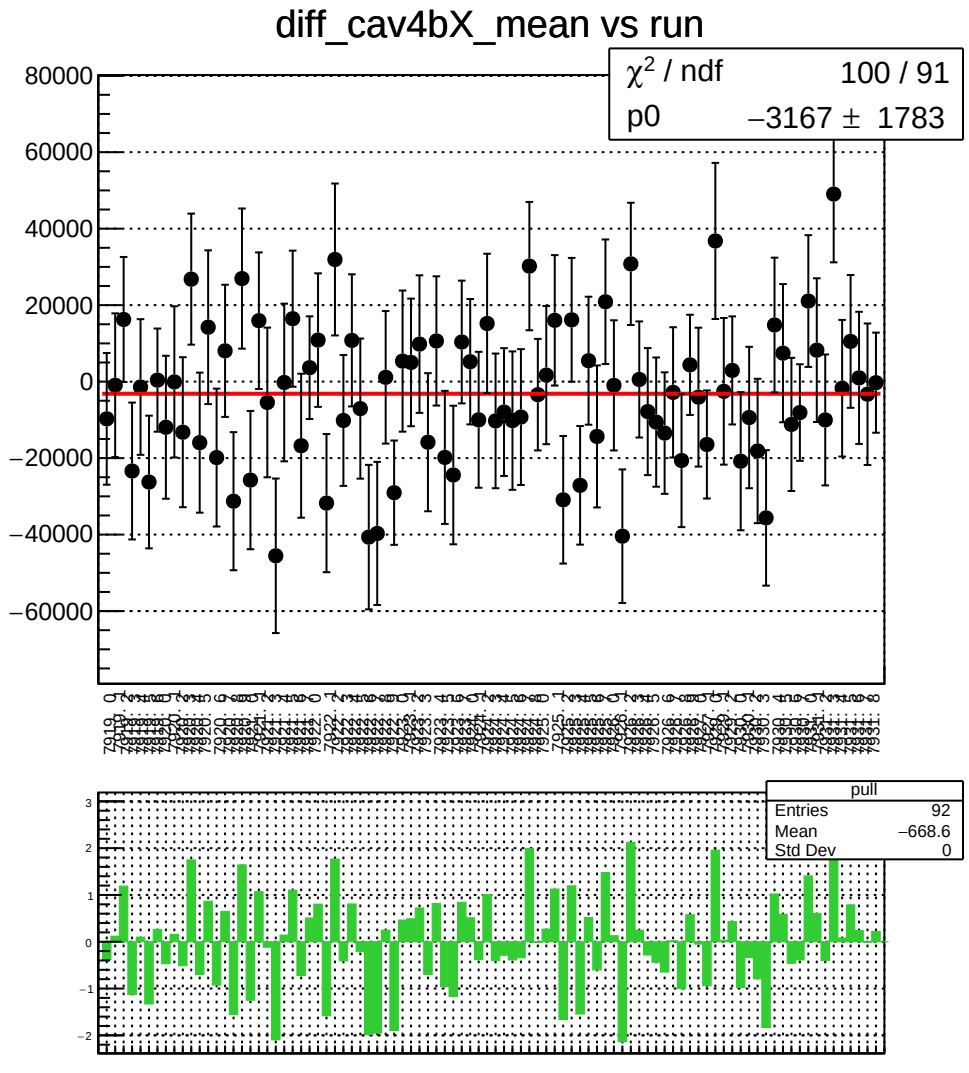

pull1D
Entries 92
Mean 0.004349
Std Dev 0.9694

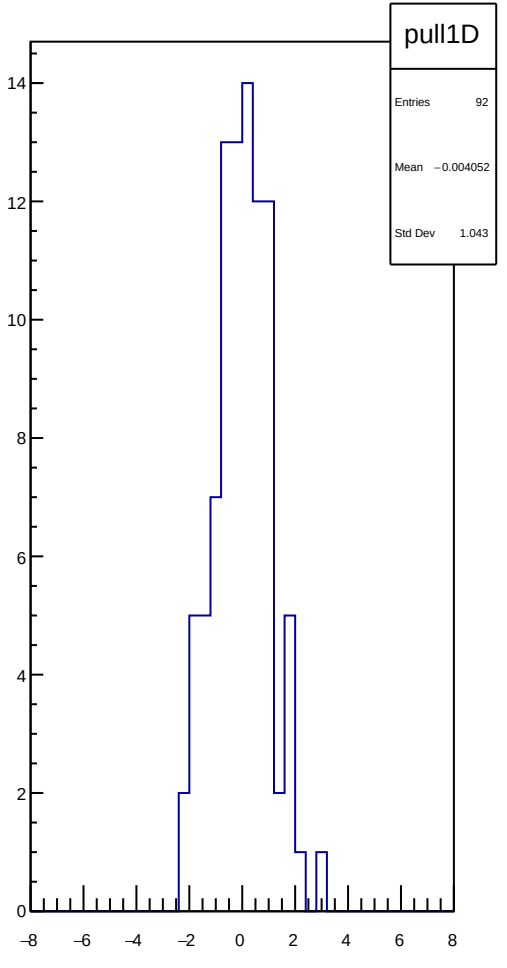

diff_bpm1p03aX_rms vs run
χ² / ndf 4413 / 91
p0 1911 ± 1.433
2200
2100
2000
1900
1800
1700

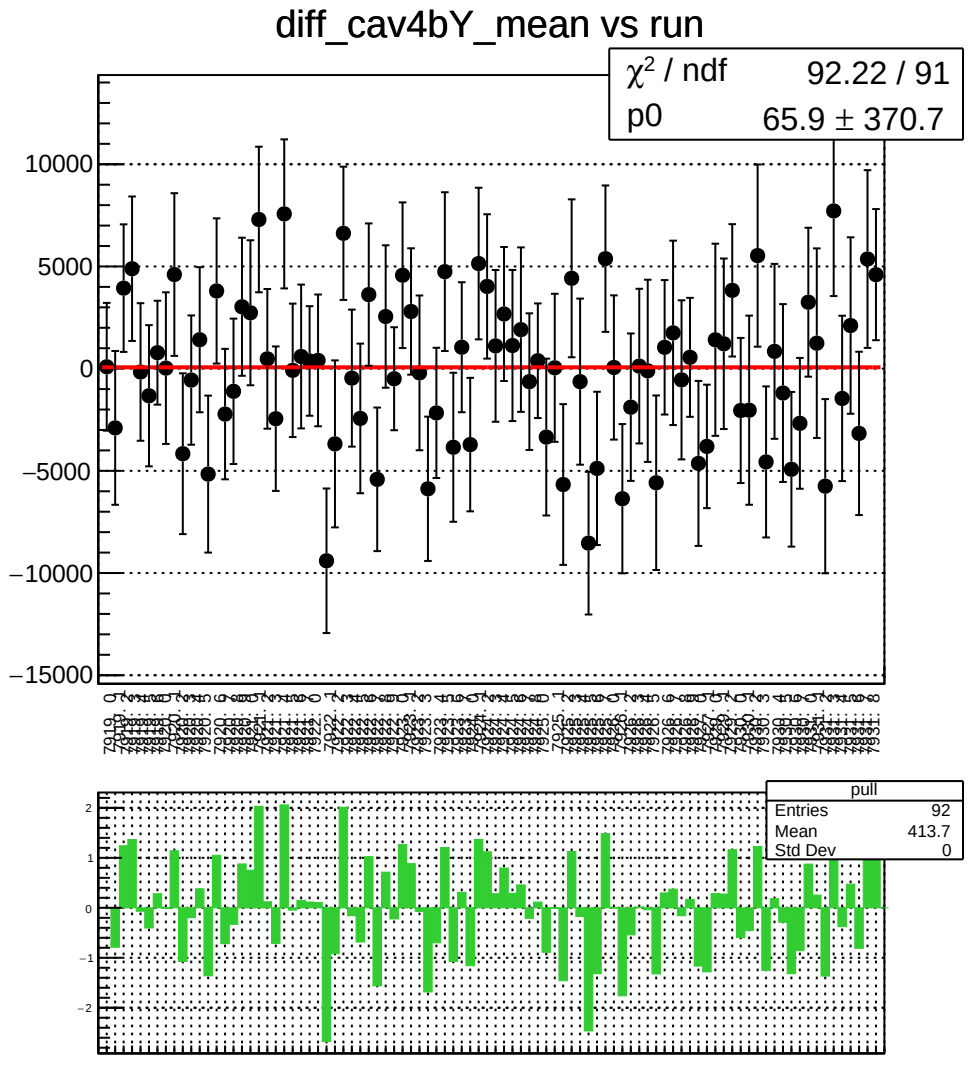

diff_bpm1p03aY_mean vs run
χ² / ndf 94.39 / 91
p0 0.4546 ± 1.835
pull
Entries 92
Mean 256.8
Std Dev 0

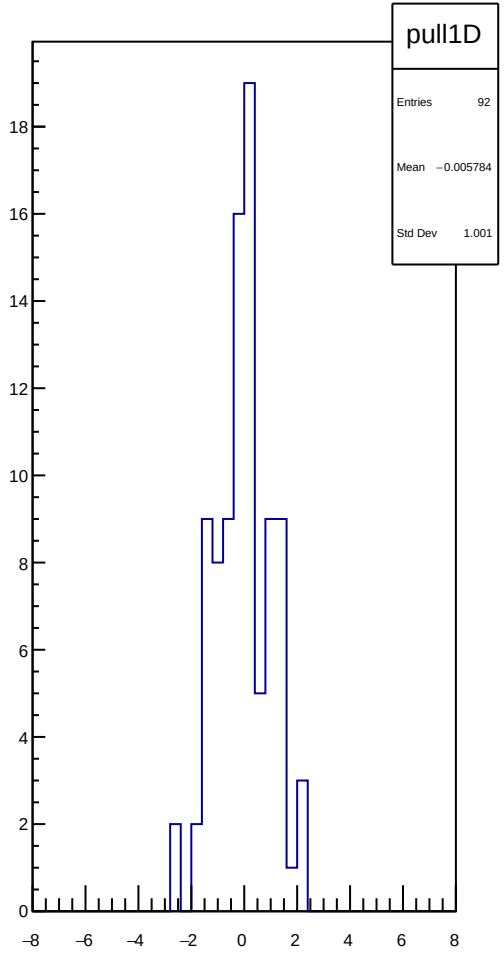

pull1D
Entries 92
Mean −0.001431
Std Dev 1.013

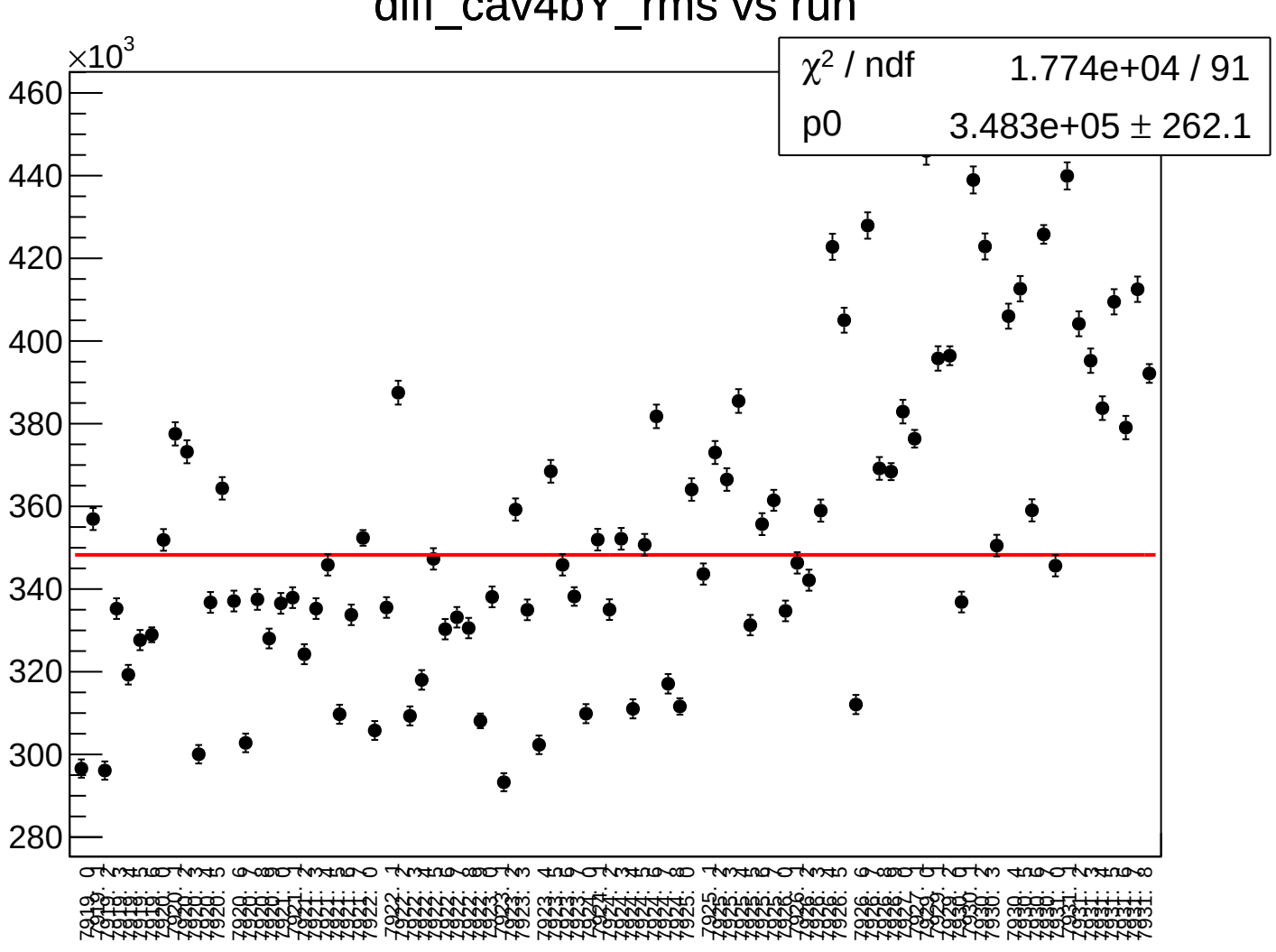

diff_bpm1p03aY_rms vs run
χ² / ndf 6488 / 91
p0 1729 ± 1.297
2000
1900
1800
1700
1600

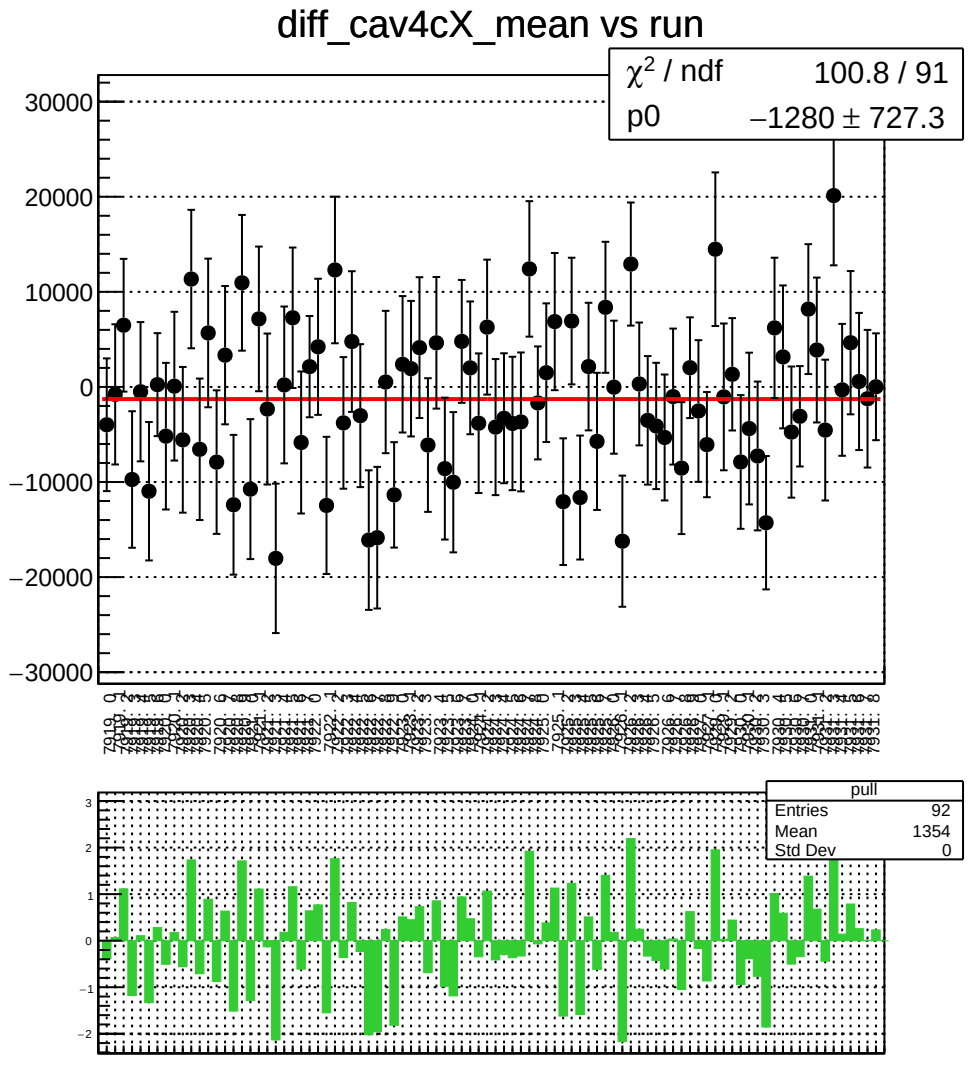

diff_cav4bX_mean vs run
χ² / ndf 100 / 91
p0 −3167 ± 1783
pull
Entries 92
Mean −668.6
Std Dev 0

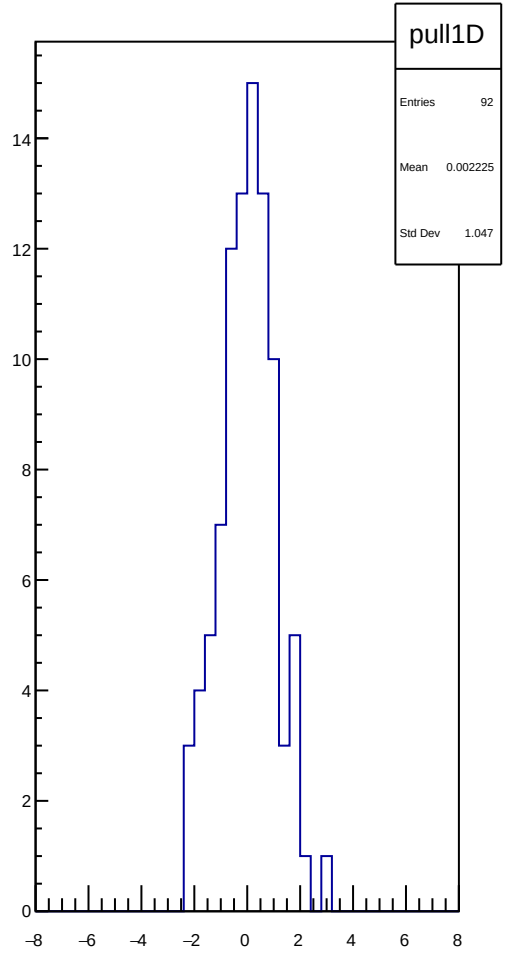

pull1D
Entries 92
Mean −0.004052
Std Dev 1.043

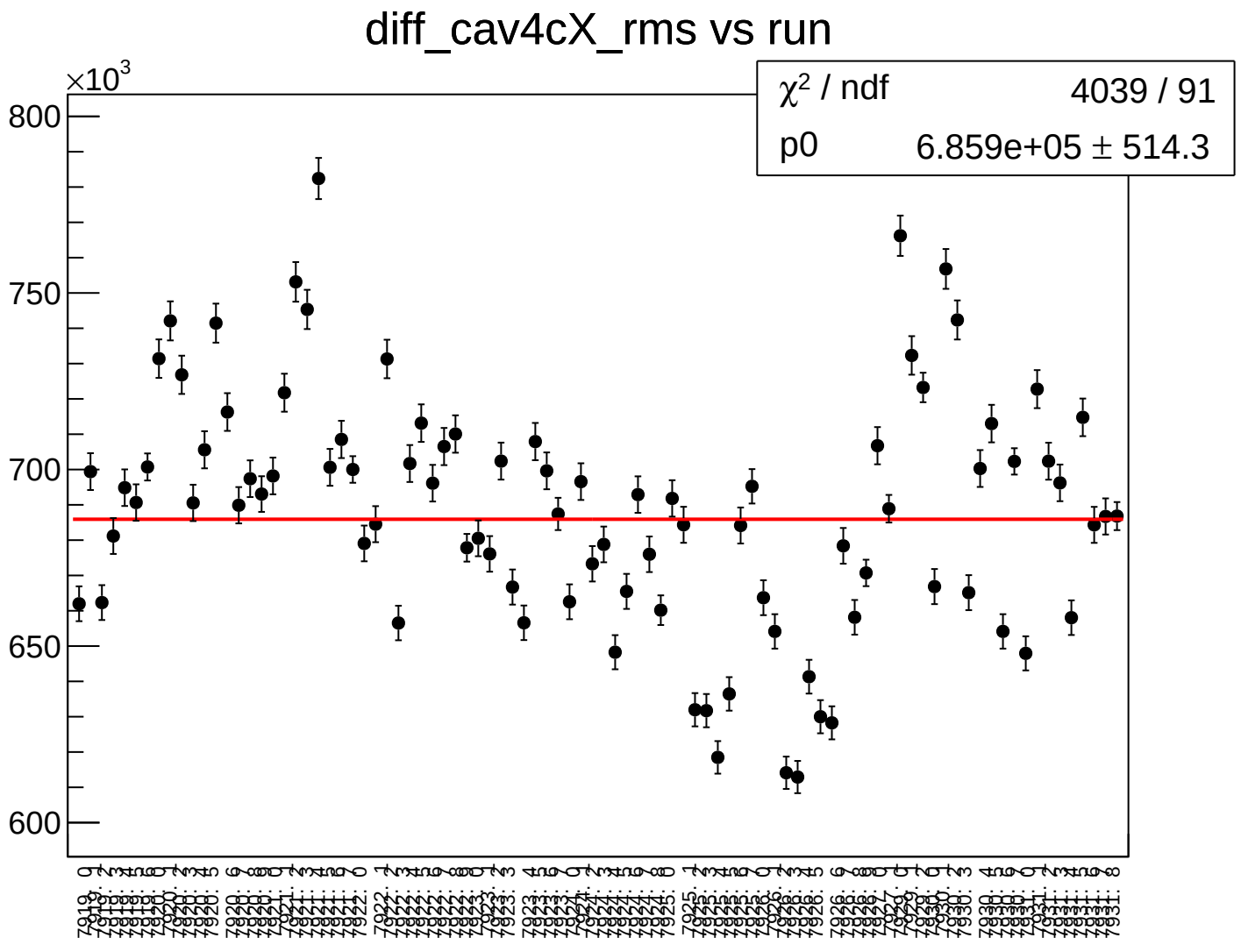

diff_cav4bY_mean vs run
χ^2 / ndf 92.22 / 91
p0 65.9 ± 370.7
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean 413.7
Std Dev 0
2
1
0
−1
−2

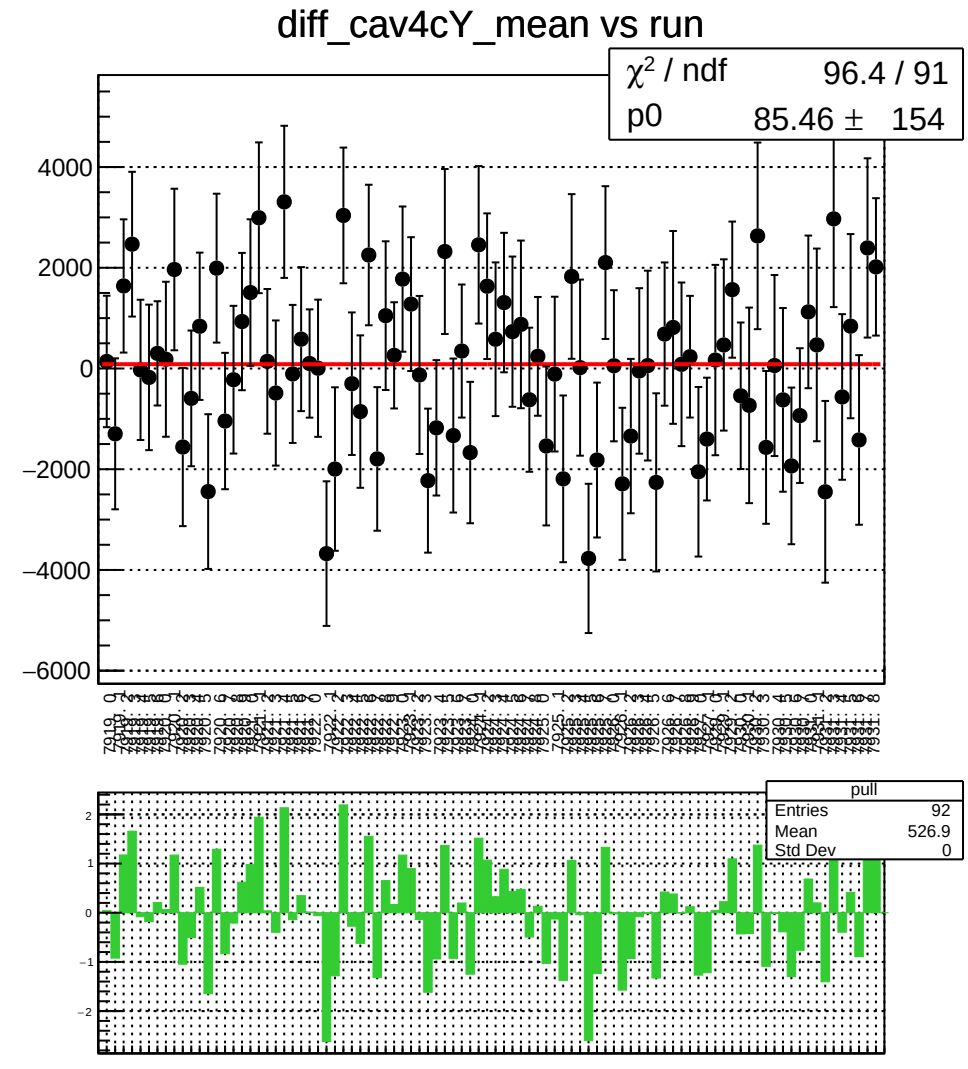

pull1D
Entries 92
Mean −0.005784
Std Dev 1.001
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

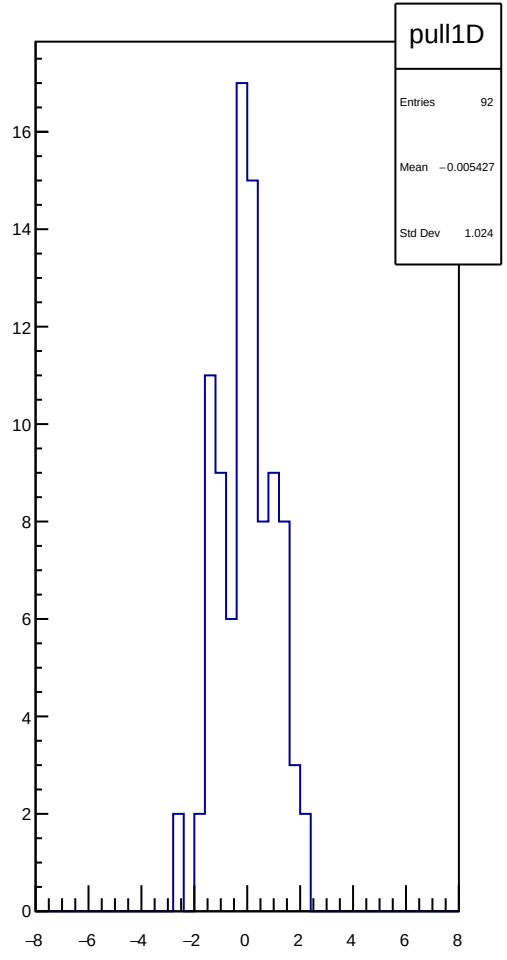

diff_cav4bY_rms vs run
×10^3
460
440
420
400
380
360
340
320
300
280
χ² / ndf 1.774e+04 / 91
p0 3.483e+05 ± 262.1

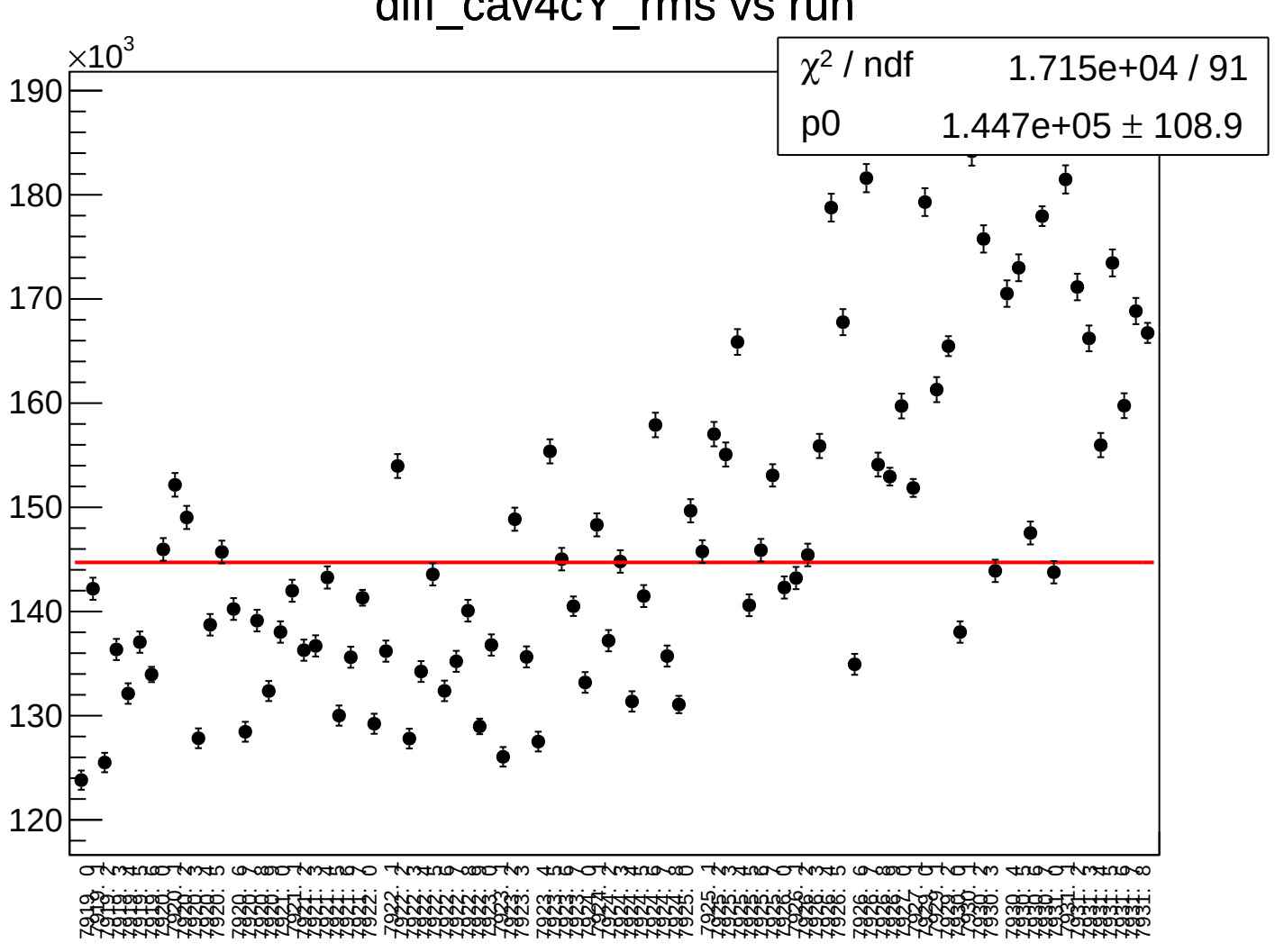

diff_cav4cX_mean vs run
χ² / ndf 100.8 / 91
p0 −1280 ± 727.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean 1354
Std Dev 0
3
2
1
0
−1
−2

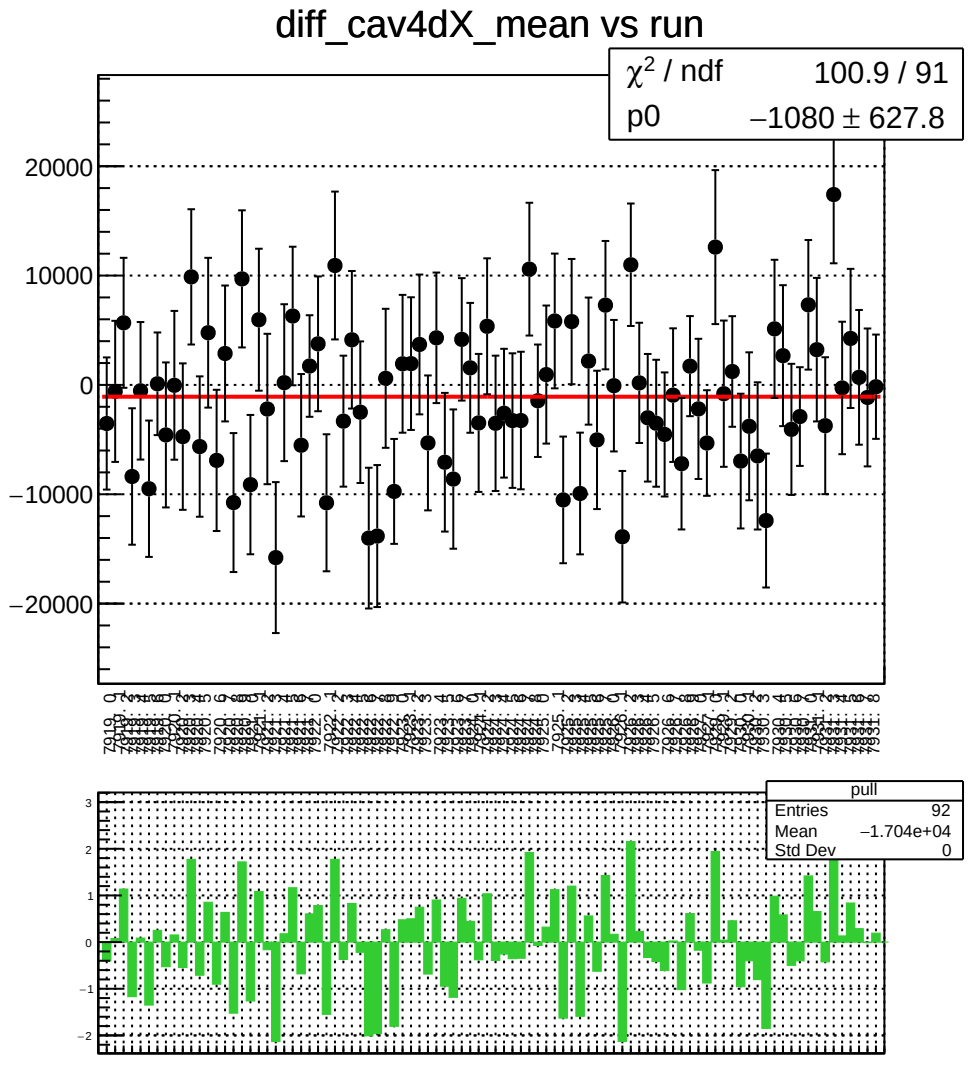

pull1D
Entries 92
Mean 0.002225
Std Dev 1.047
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

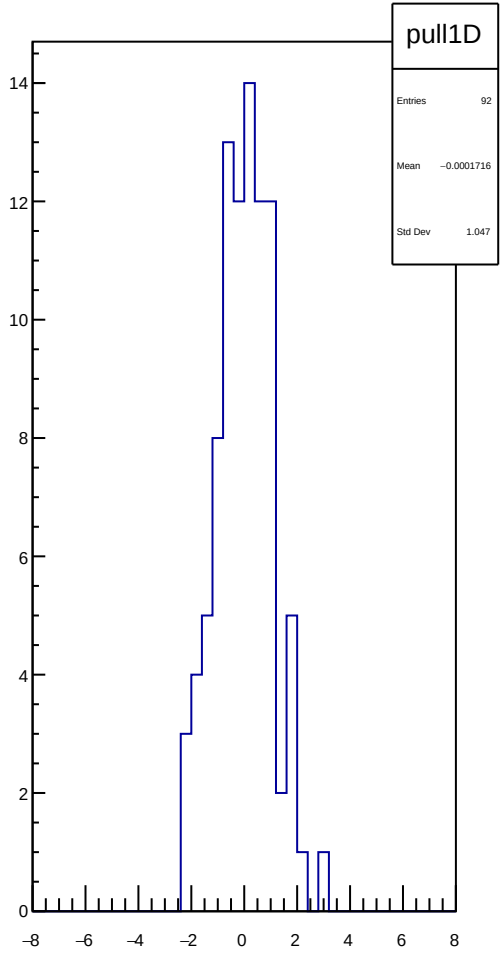

diff_cav4cX_rms vs run
×10^3
800
750
700
650
600
χ² / ndf 4039 / 91
p0 6.859e+05 ± 514.3

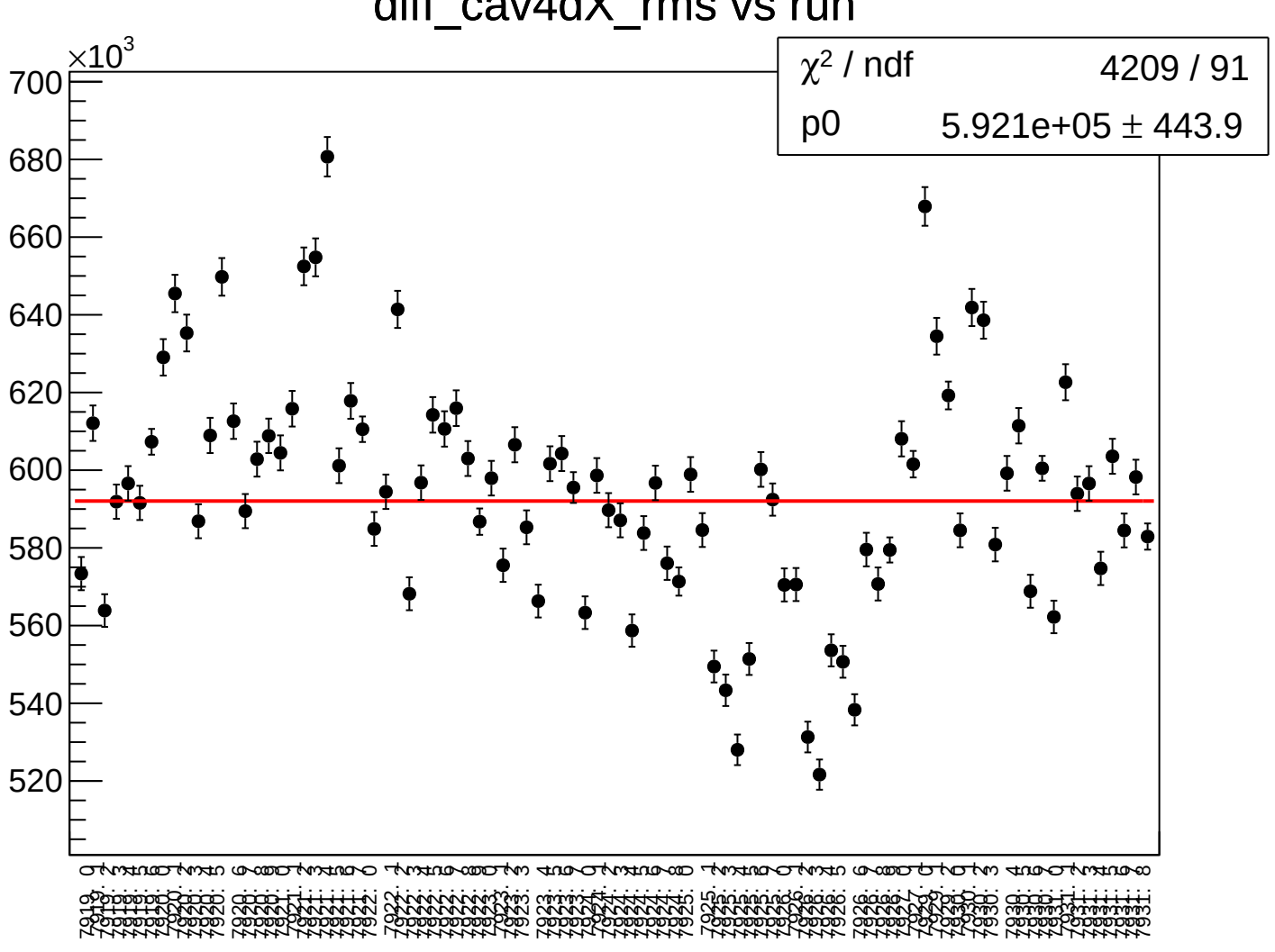

diff_cav4cY_mean vs run
χ² / ndf 96.4 / 91
p0 85.46 ± 154
4000
2000
0
−2000
−4000
−6000
pull
Entries 92
Mean 526.9
Std Dev 0
2
1
0
−1
−2

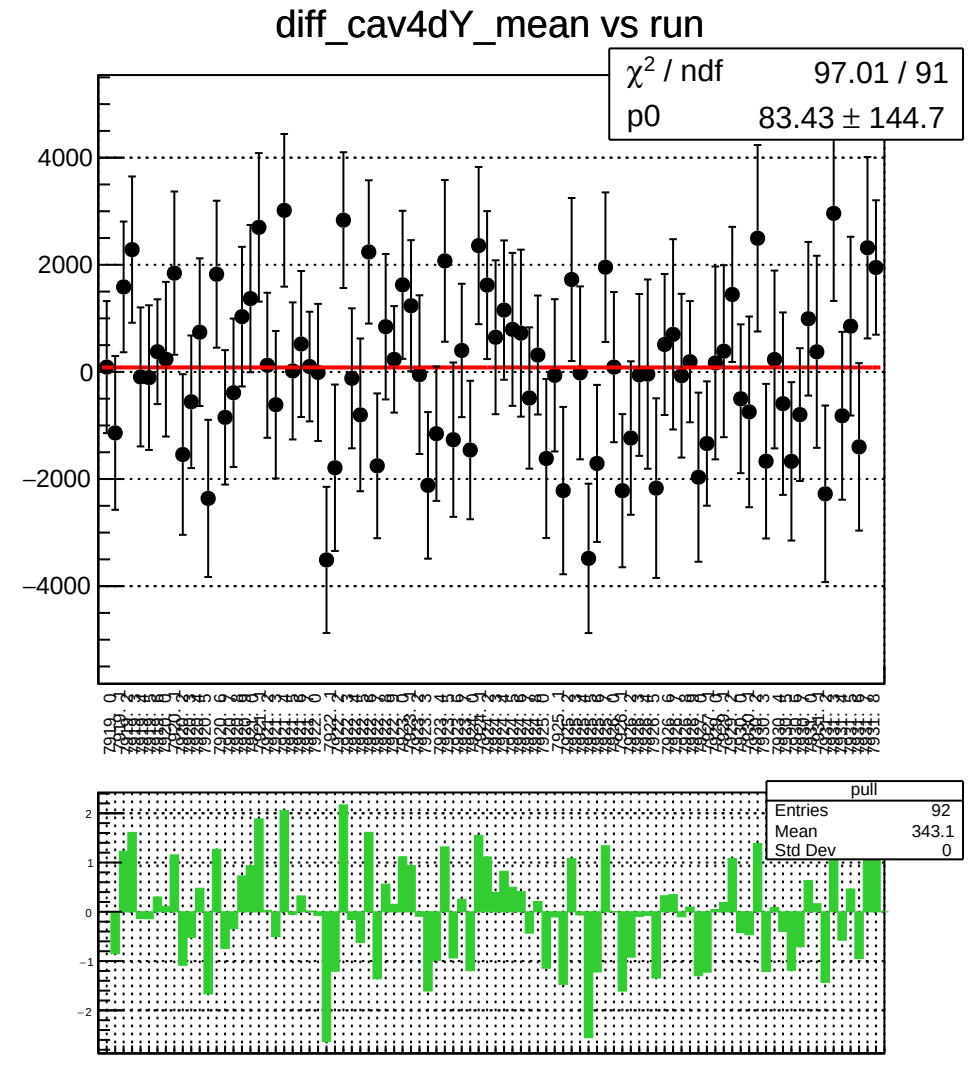

pull1D
Entries 92
Mean −0.005427
Std Dev 1.024
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

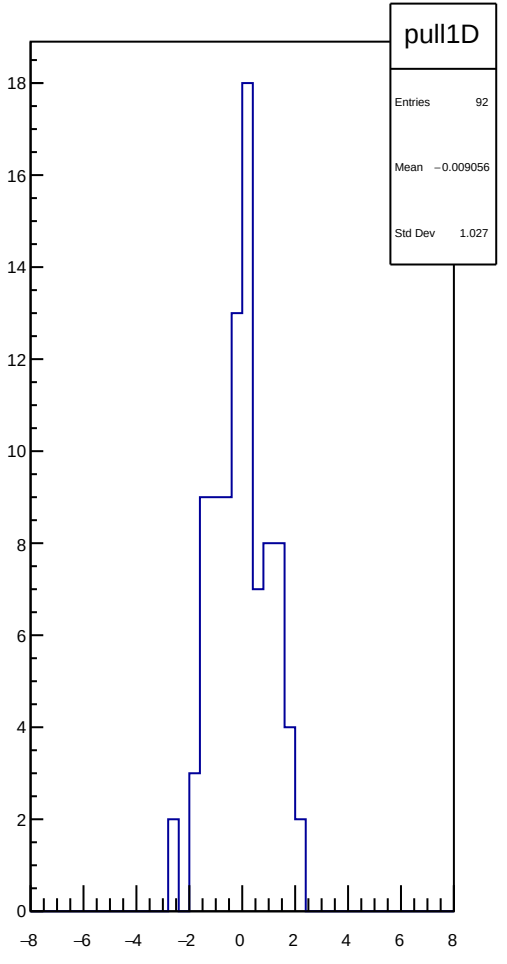

diff_cav4cY_rms vs run
×10^3
χ² / ndf 1.715e+04 / 91
p0 1.447e+05 ± 108.9
190
180
170
160
150
140
130
120

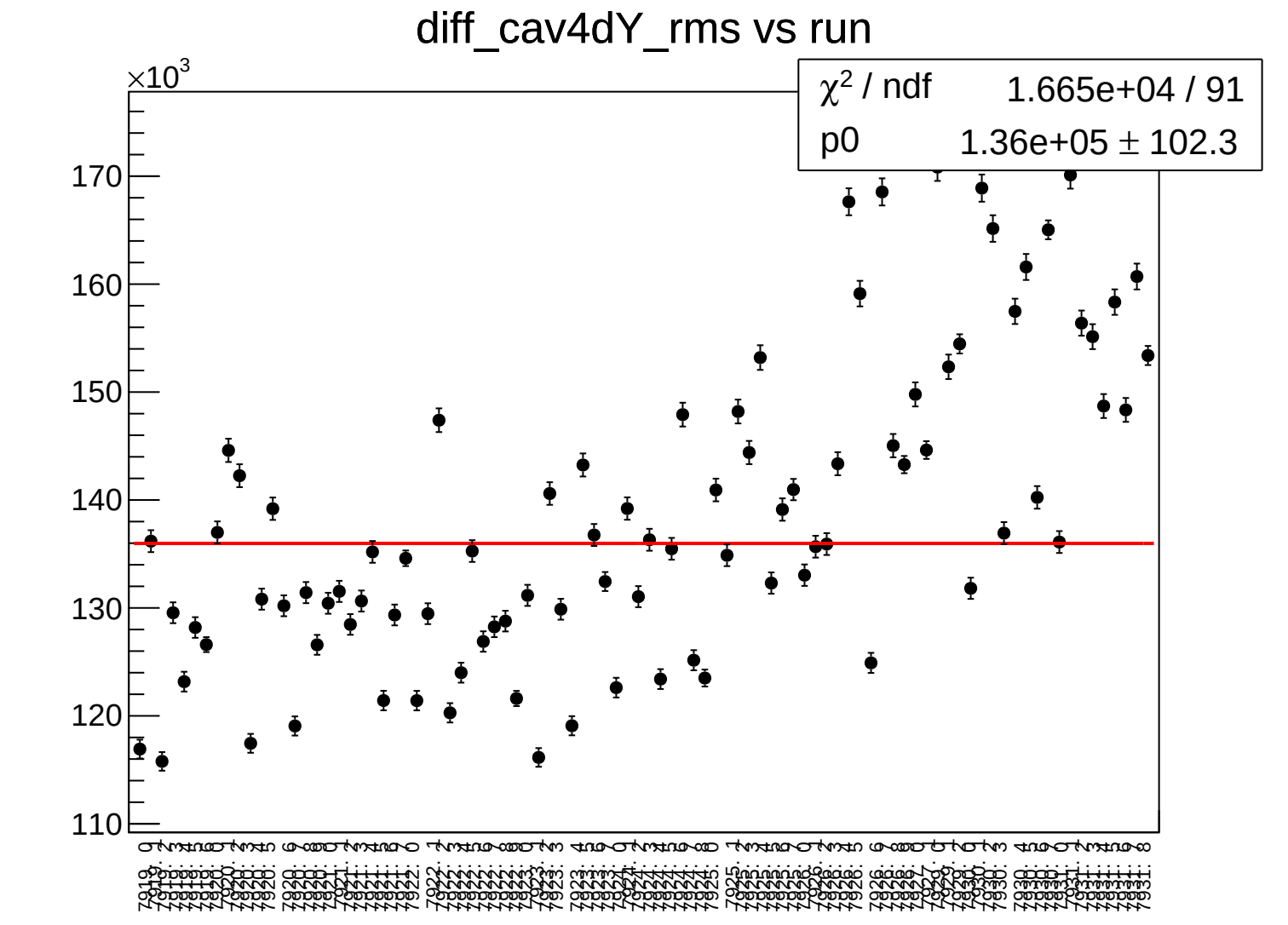

diff_cav4dX_mean vs run
χ² / ndf 100.9 / 91
p0 −1080 ± 627.8
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −1.704e+04
Std Dev 0
3
2
1
0
−1
−2

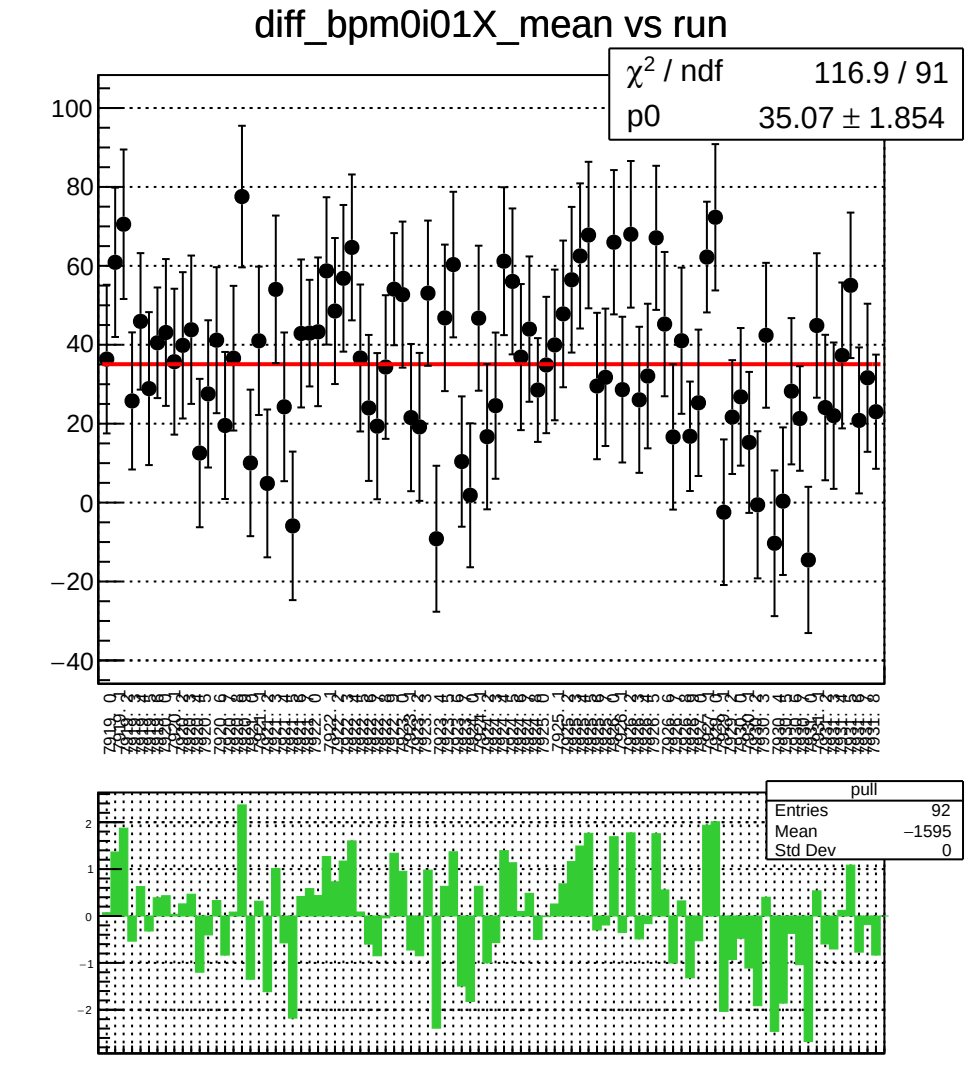

pull1D
Entries 92
Mean −0.0001716
Std Dev 1.047
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

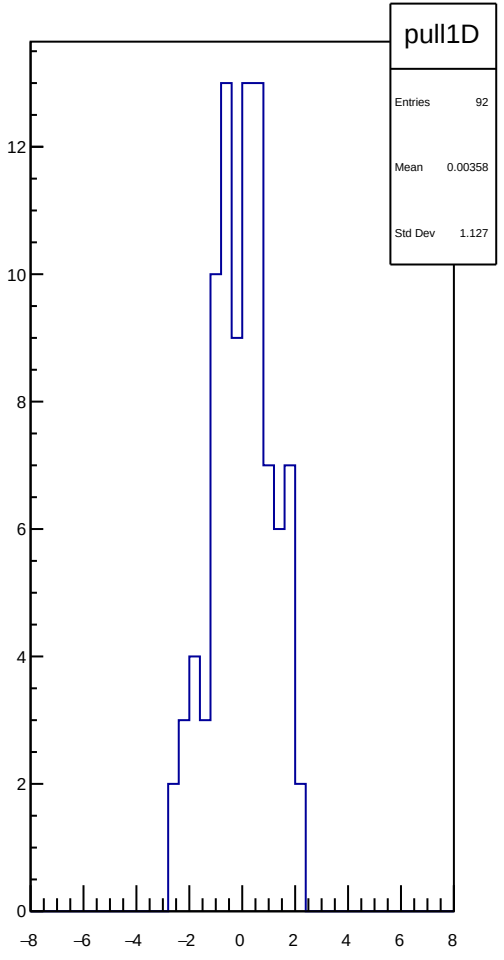

diff_cav4dX_rms vs run
×10^3
700
680
660
640
620
600
580
560
540
520
χ² / ndf 4209 / 91
p0 5.921e+05 ± 443.9

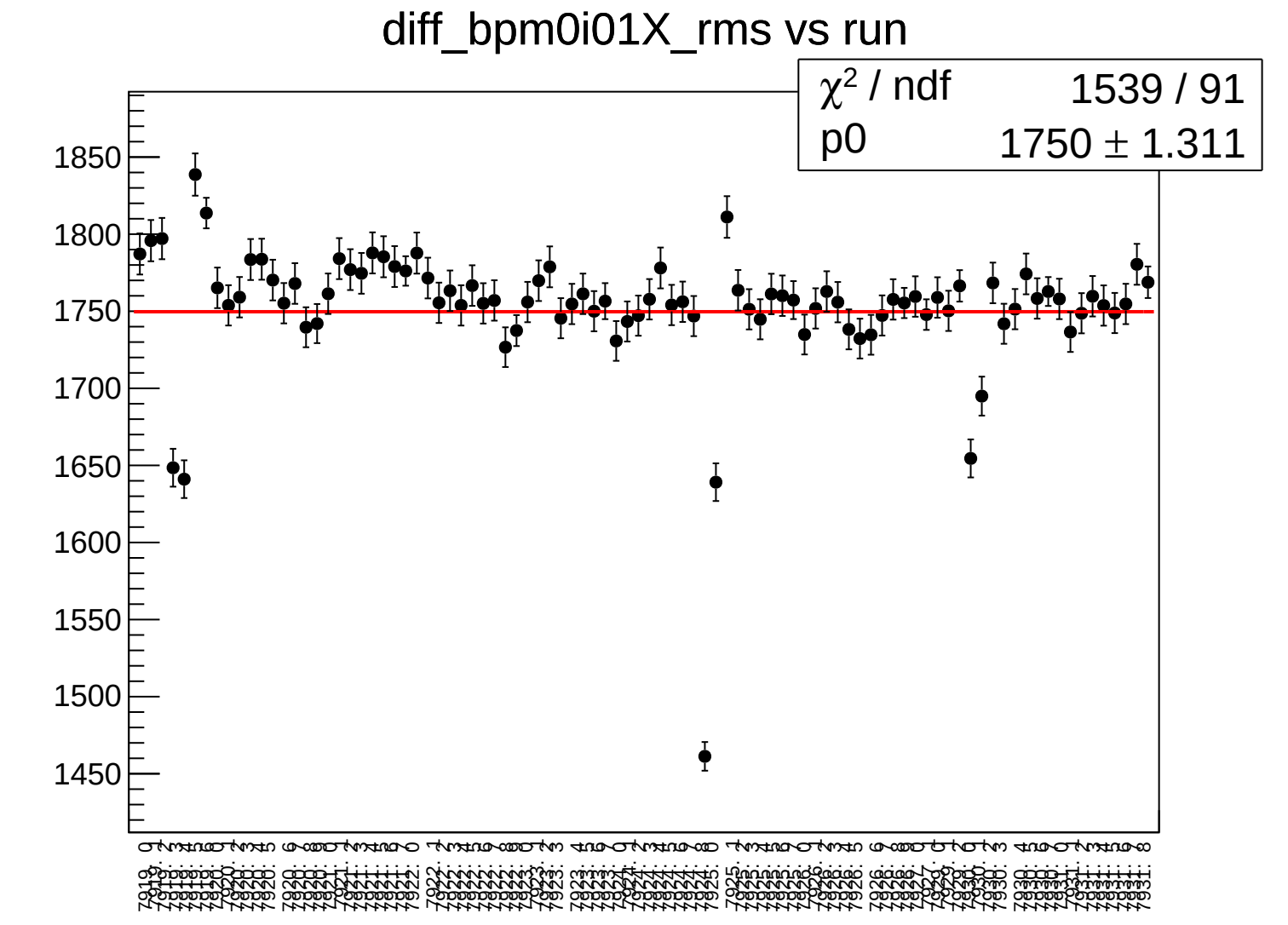

diff_cav4dY_mean vs run
χ² / ndf 97.01 / 91
p0 83.43 ± 144.7
4000
2000
0
−2000
−4000
pull
Entries 92
Mean 343.1
Std Dev 0
2
1
0
−1
−2

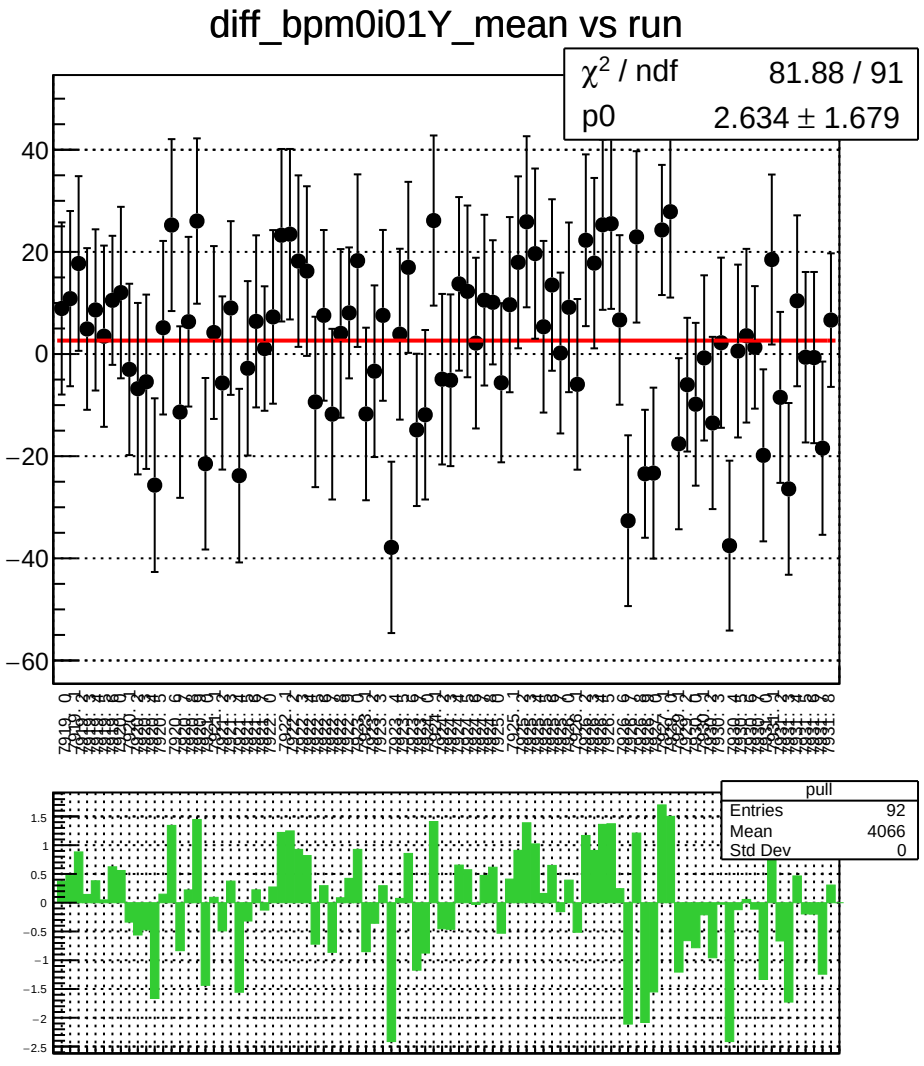

pull1D
Entries 92
Mean −0.009056
Std Dev 1.027
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

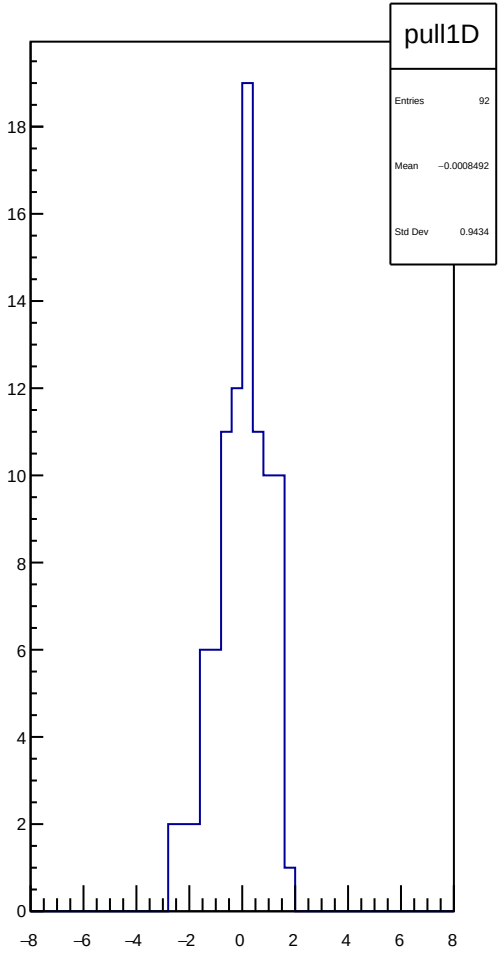

diff_cav4dY_rms vs run
×10^3
χ² / ndf 1.665e+04 / 91
p0 1.36e+05 ± 102.3
170
160
150
140
130
120
110

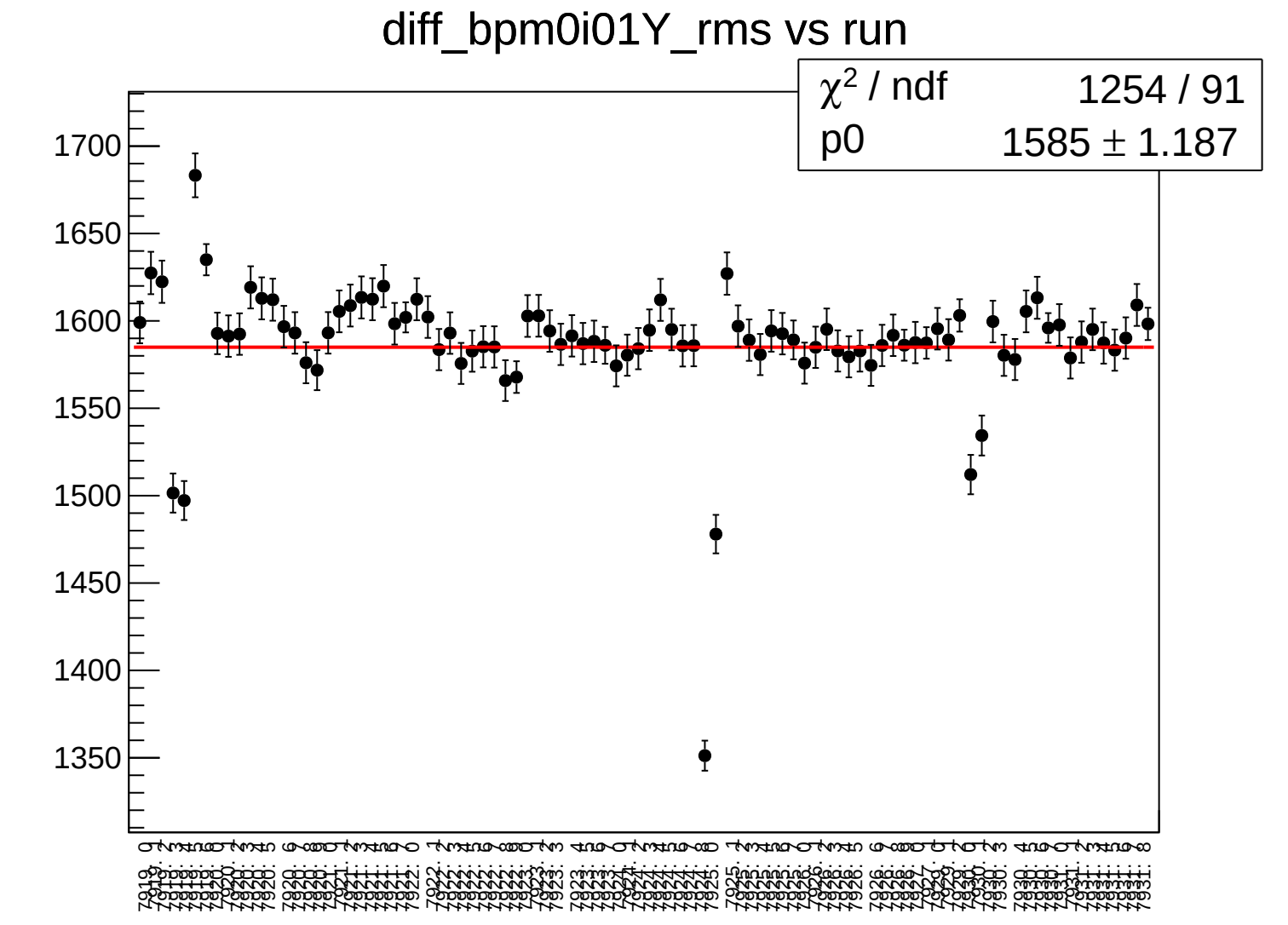

diff_bpm0i01X_mean vs run
χ^2 / ndf 116.9 / 91
p0 35.07 ± 1.854
pull
Entries 92
Mean −1595
Std Dev 0

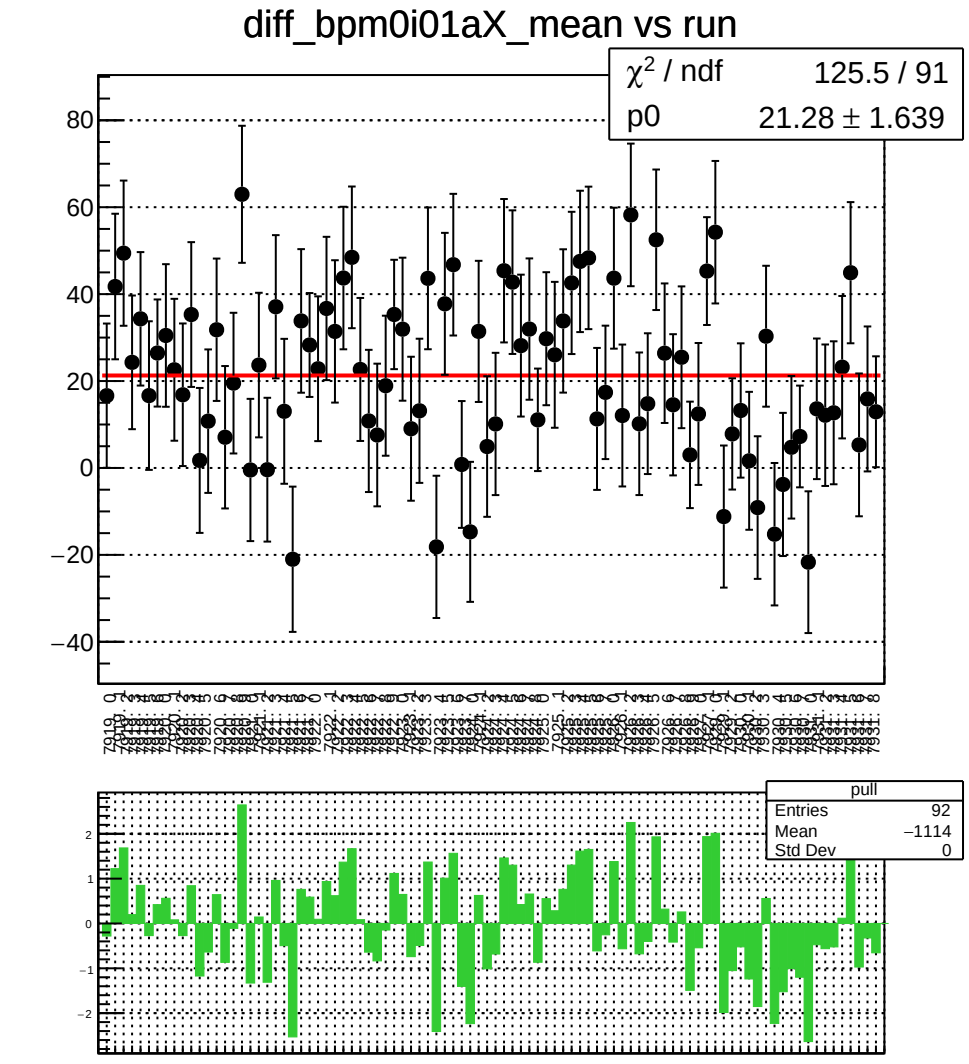

pull1D
Entries 92
Mean 0.00358
Std Dev 1.127

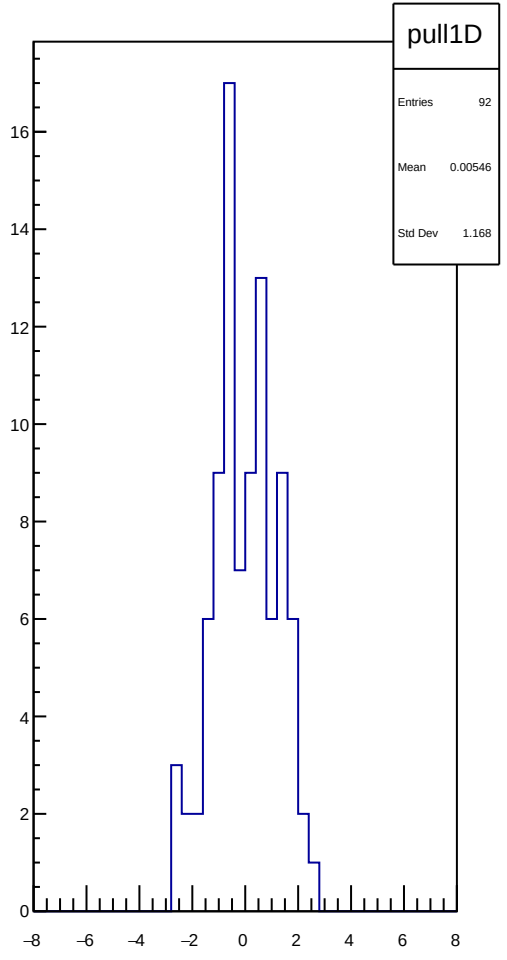

diff_bpm0i01X_rms vs run
χ² / ndf 1539 / 91
p0 1750 ± 1.311
1850
1800
1750
1700
1650
1600
1550
1500
1450

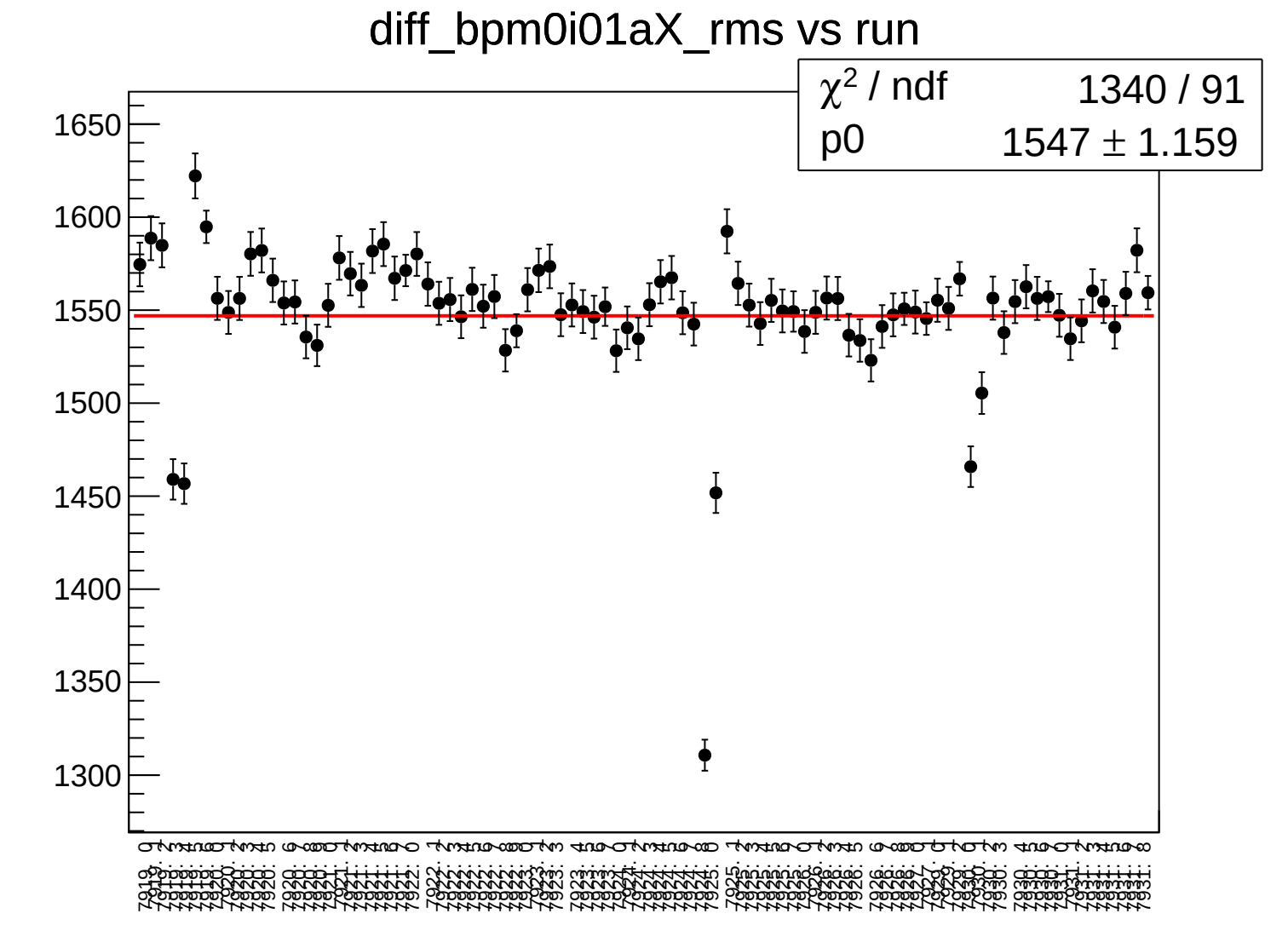

diff_bpm0i01Y_mean vs run
χ² / ndf 81.88 / 91
p0 2.634 ± 1.679
pull
Entries 92
Mean 4066
Std Dev 0

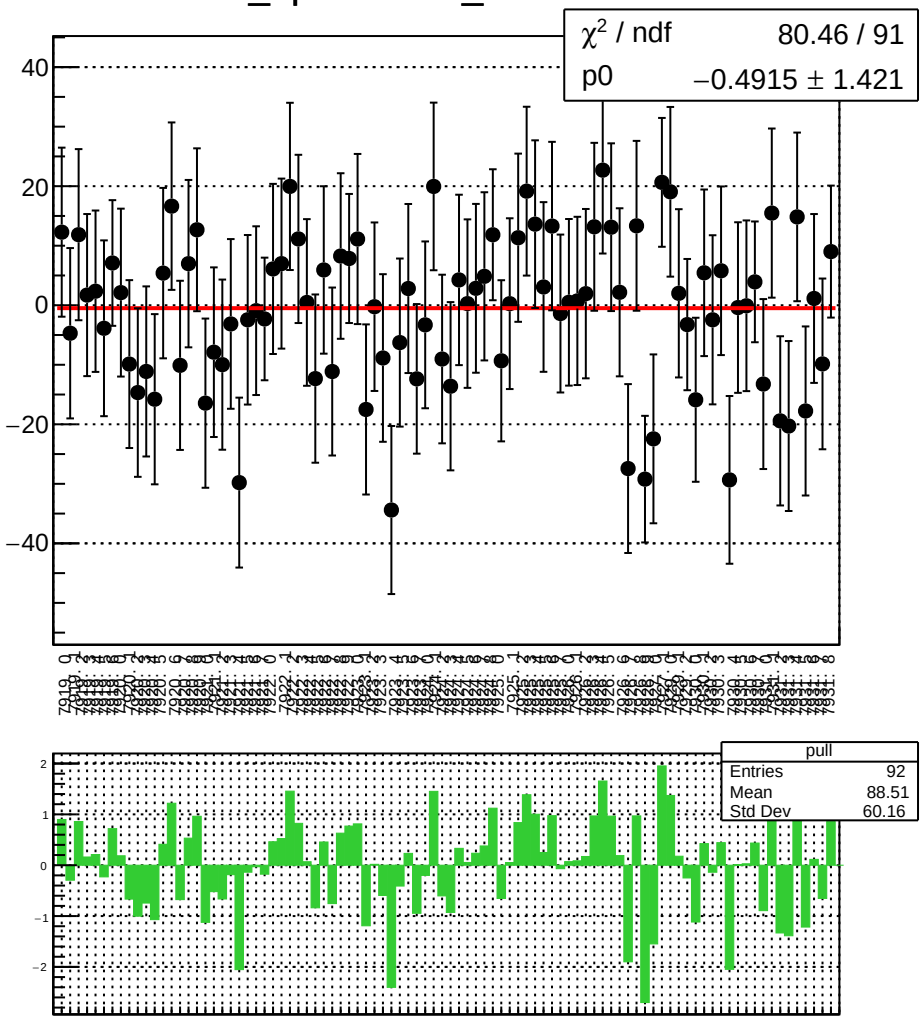

pull1D
Entries 92
Mean −0.0008492
Std Dev 0.9434

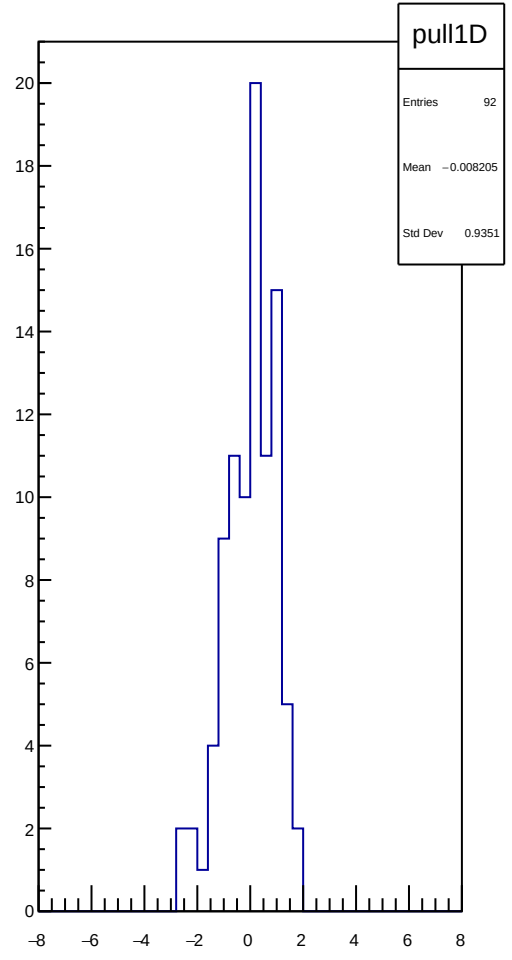

diff_bpm0i01Y_rms vs run
χ² / ndf 1254 / 91
p0 1585 ± 1.187
1700
1650
1600
1550
1500
1450
1400
1350

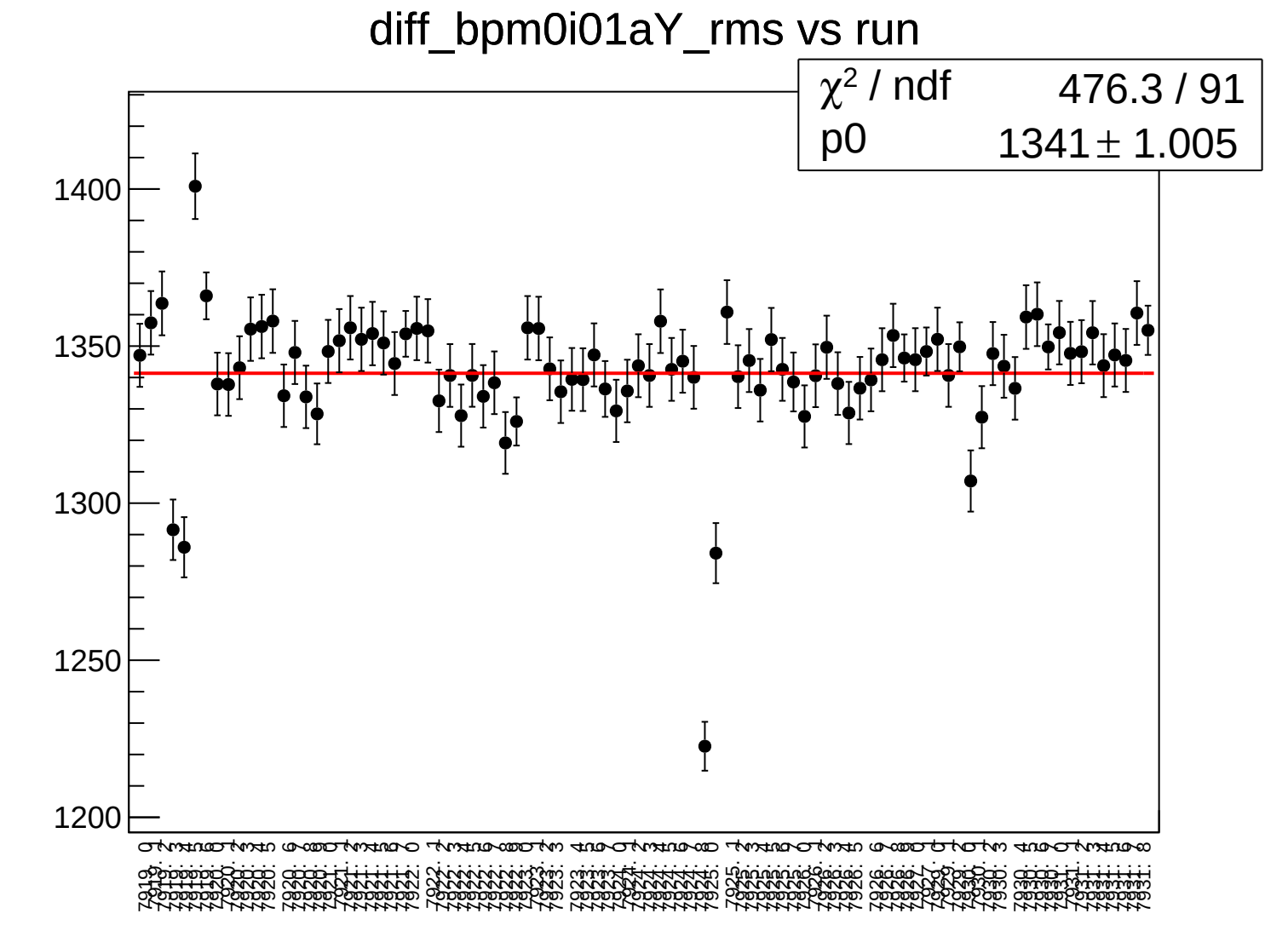

diff_bpm0i01aX_mean vs run
χ² / ndf 125.5 / 91
p0 21.28 ± 1.639
pull
Entries 92
Mean −1114
Std Dev 0

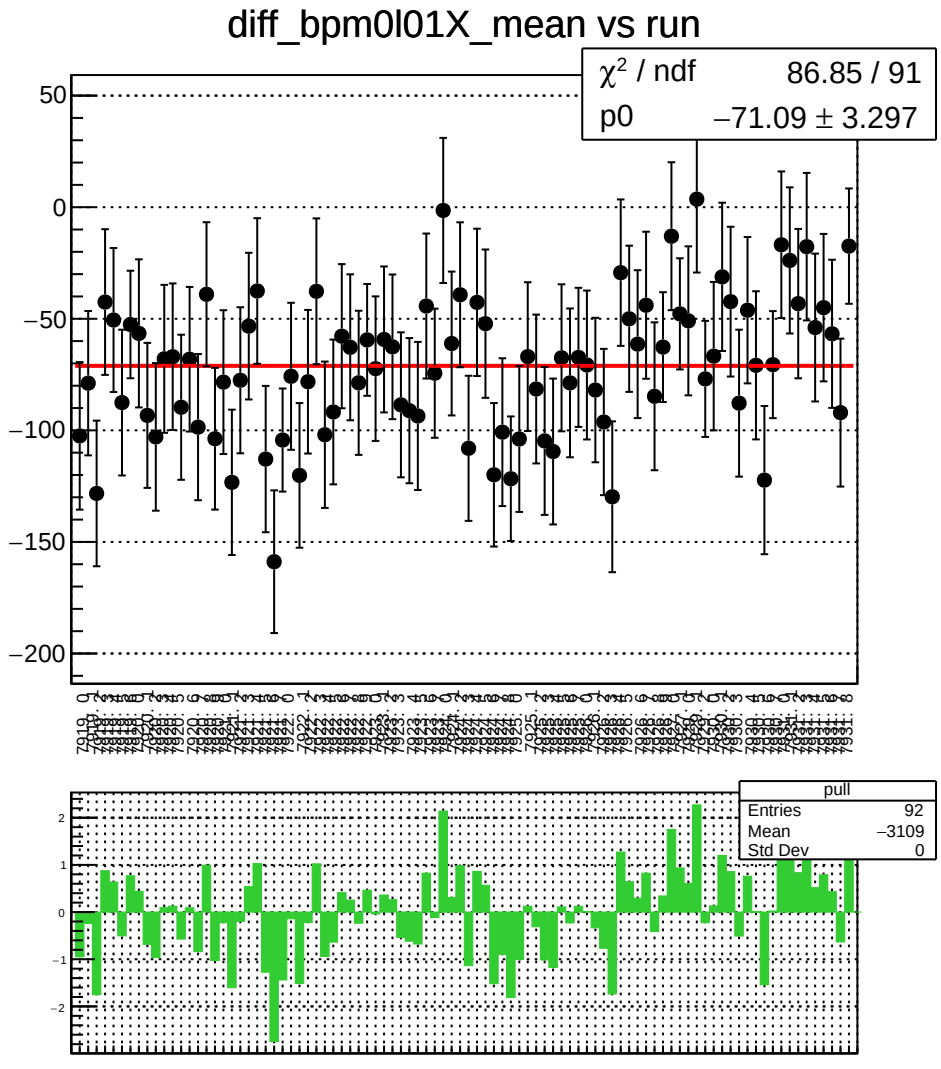

pull1D
Entries 92
Mean 0.00546
Std Dev 1.168

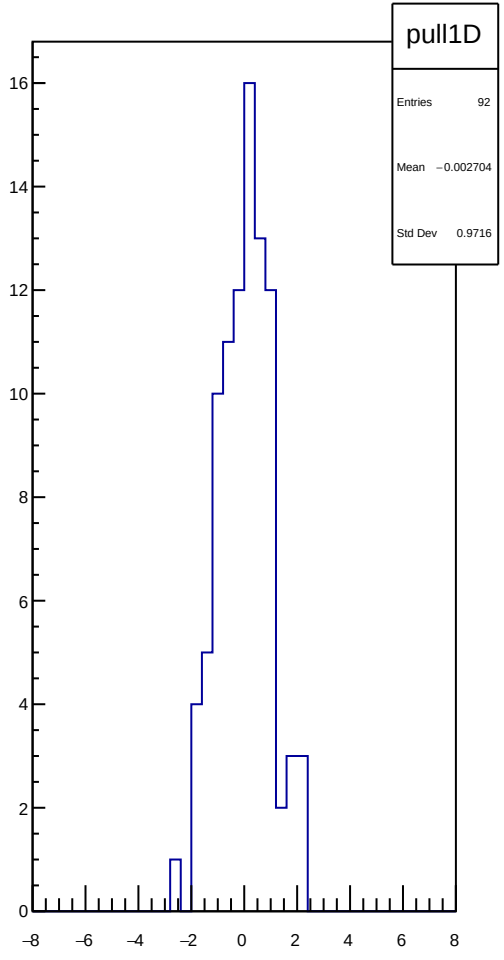

diff_bpm0i01aX_rms vs run
χ² / ndf 1340 / 91
p0 1547 ± 1.159
1650
1600
1550
1500
1450
1400
1350
1300

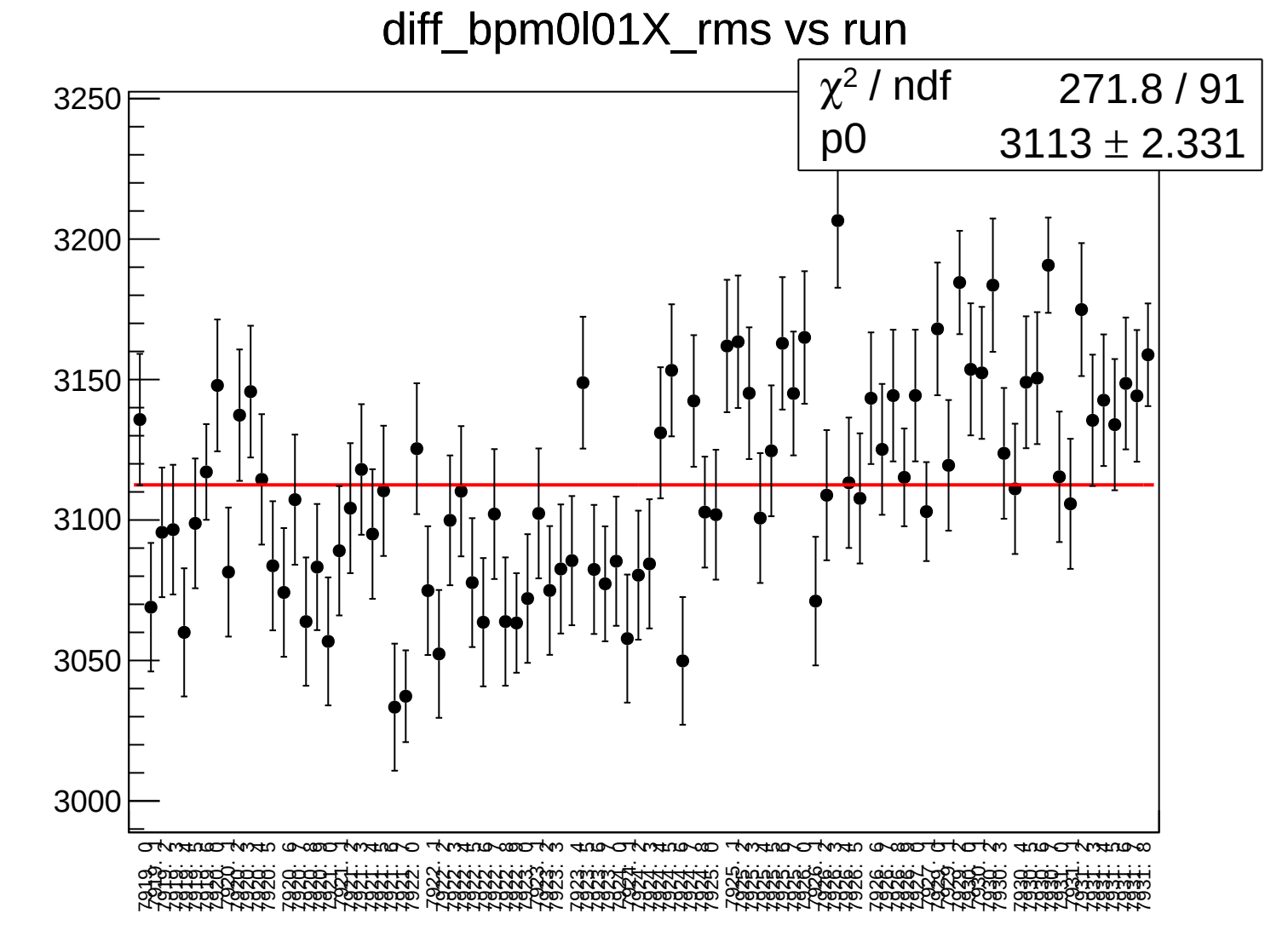

diff_bpm0i01aY_mean vs run
χ² / ndf 80.46 / 91
p0 −0.4915 ± 1.421
pull
Entries 92
Mean 88.51
Std Dev 60.16

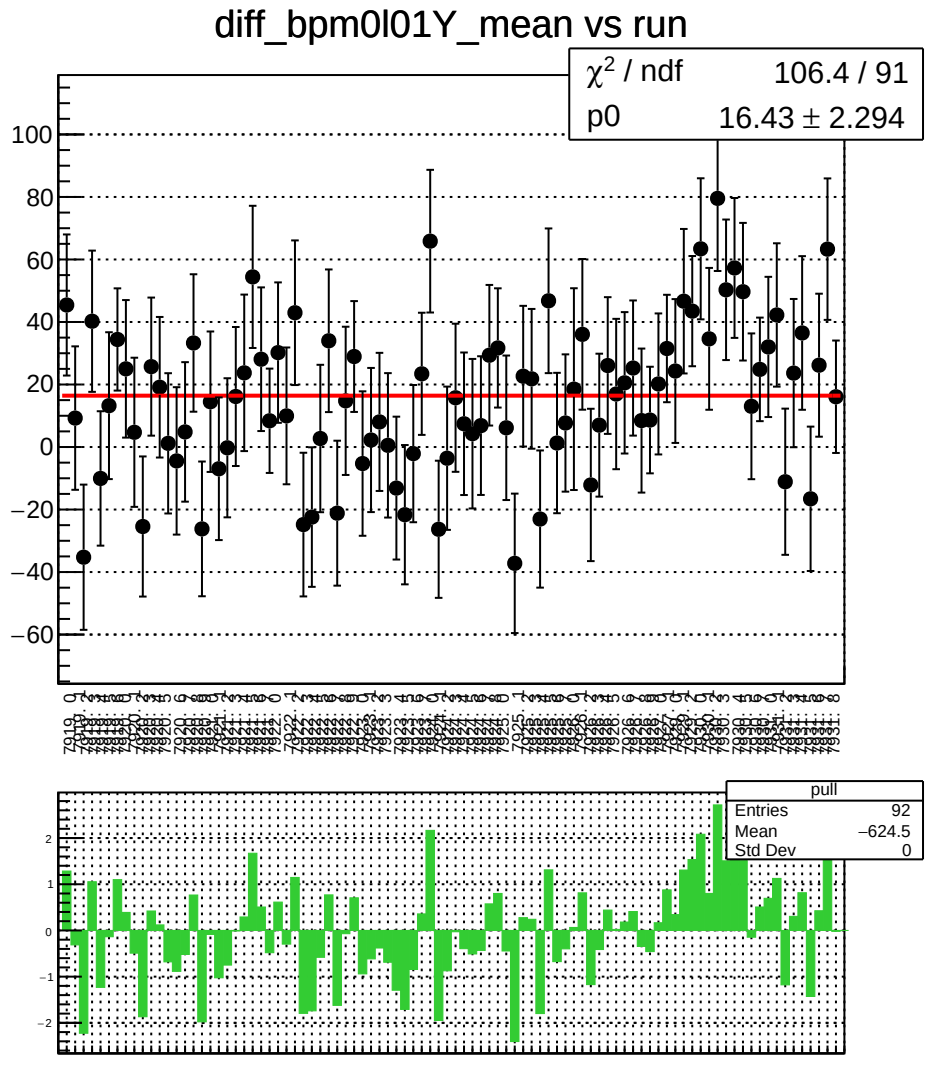

pull1D
Entries 92
Mean −0.008205
Std Dev 0.9351

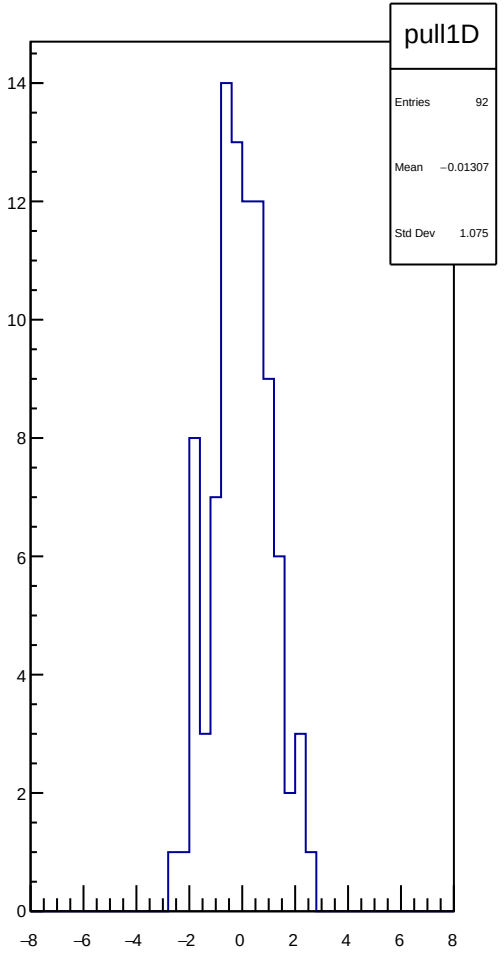

diff_bpm0i01aY_rms vs run
χ² / ndf 476.3 / 91
p0 1341 ± 1.005
1400
1350
1300
1250
1200

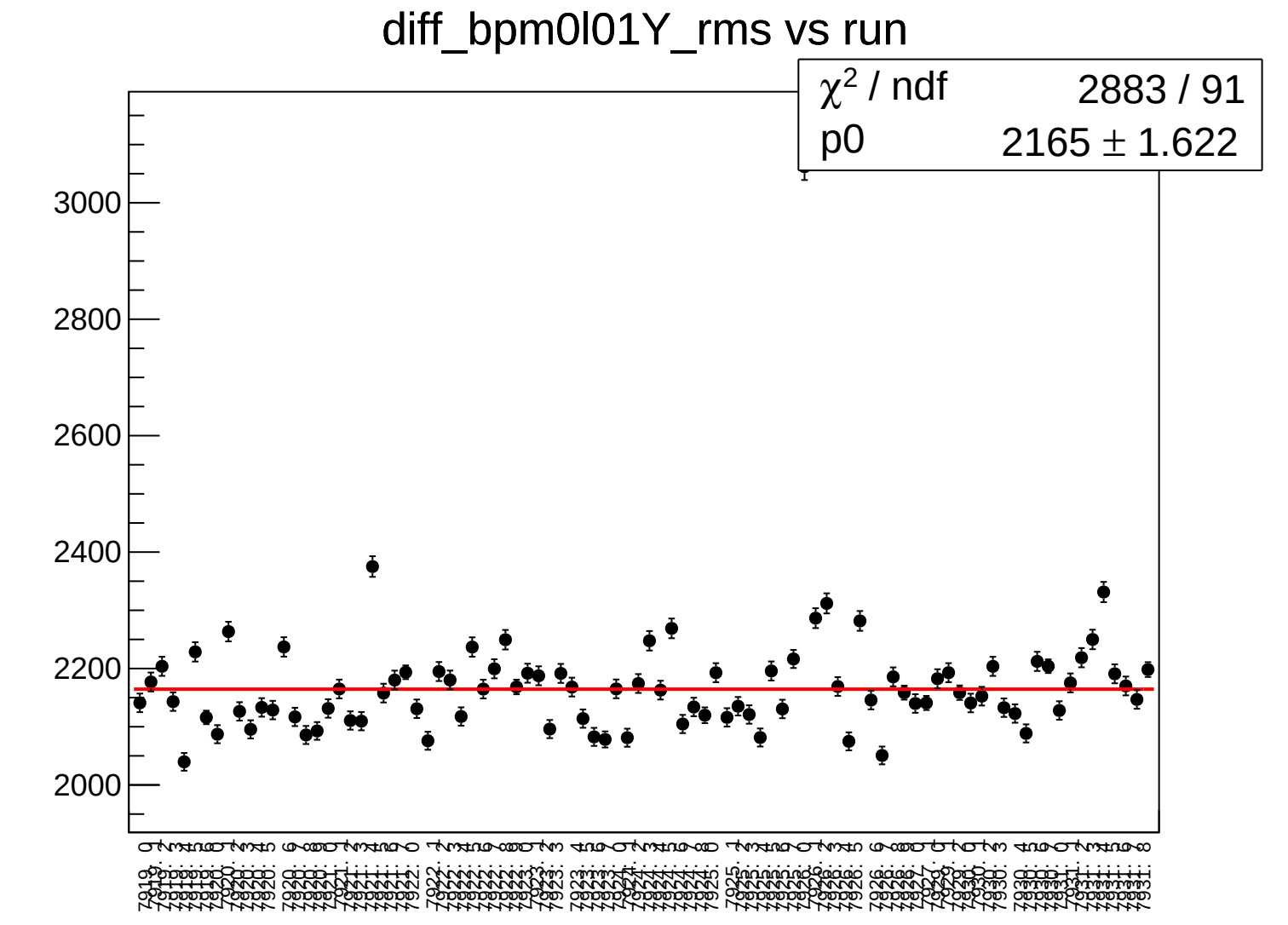

diff_bpm0l01X_mean vs run
χ² / ndf 86.85 / 91
p0 −71.09 ± 3.297
pull
Entries 92
Mean −3109
Std Dev 0

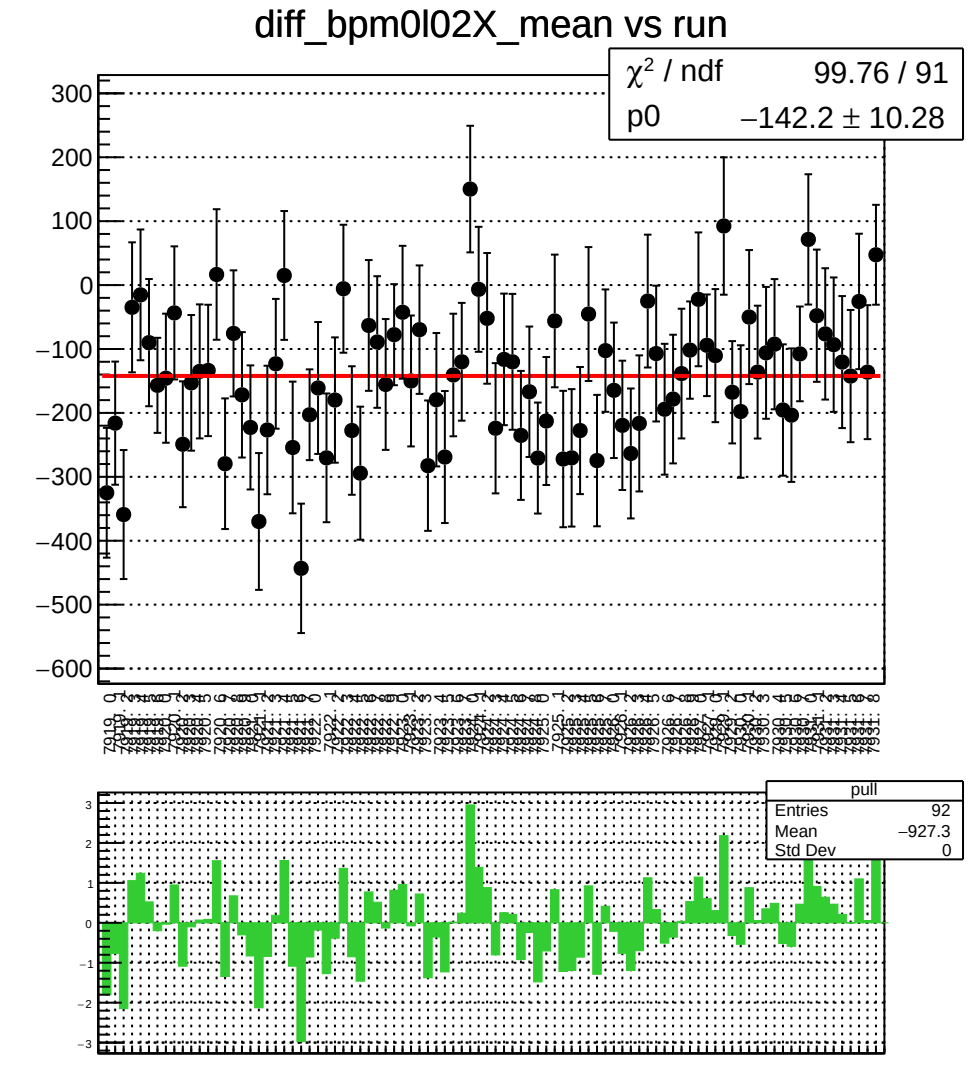

pull1D
Entries 92
Mean −0.002704
Std Dev 0.9716

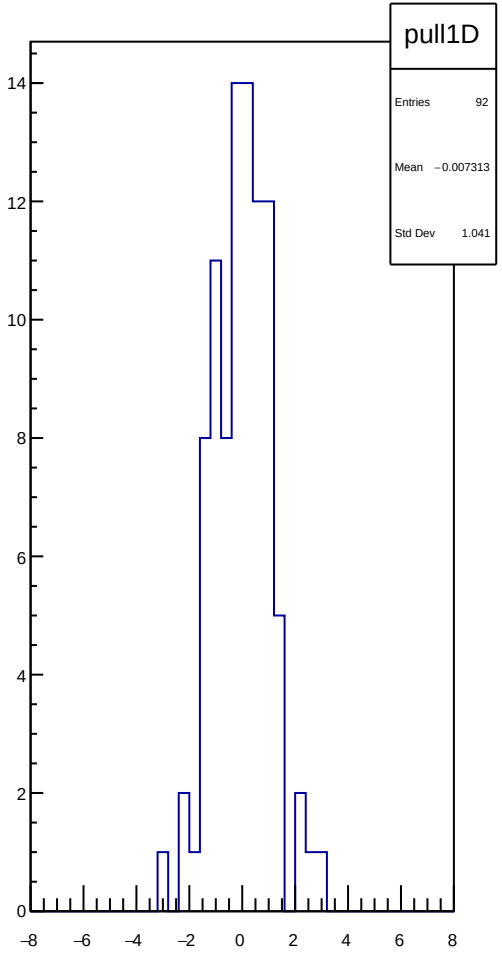

diff_bpm0l01X_rms vs run
χ² / ndf 271.8 / 91
p0 3113 ± 2.331
3250
3200
3150
3100
3050
3000

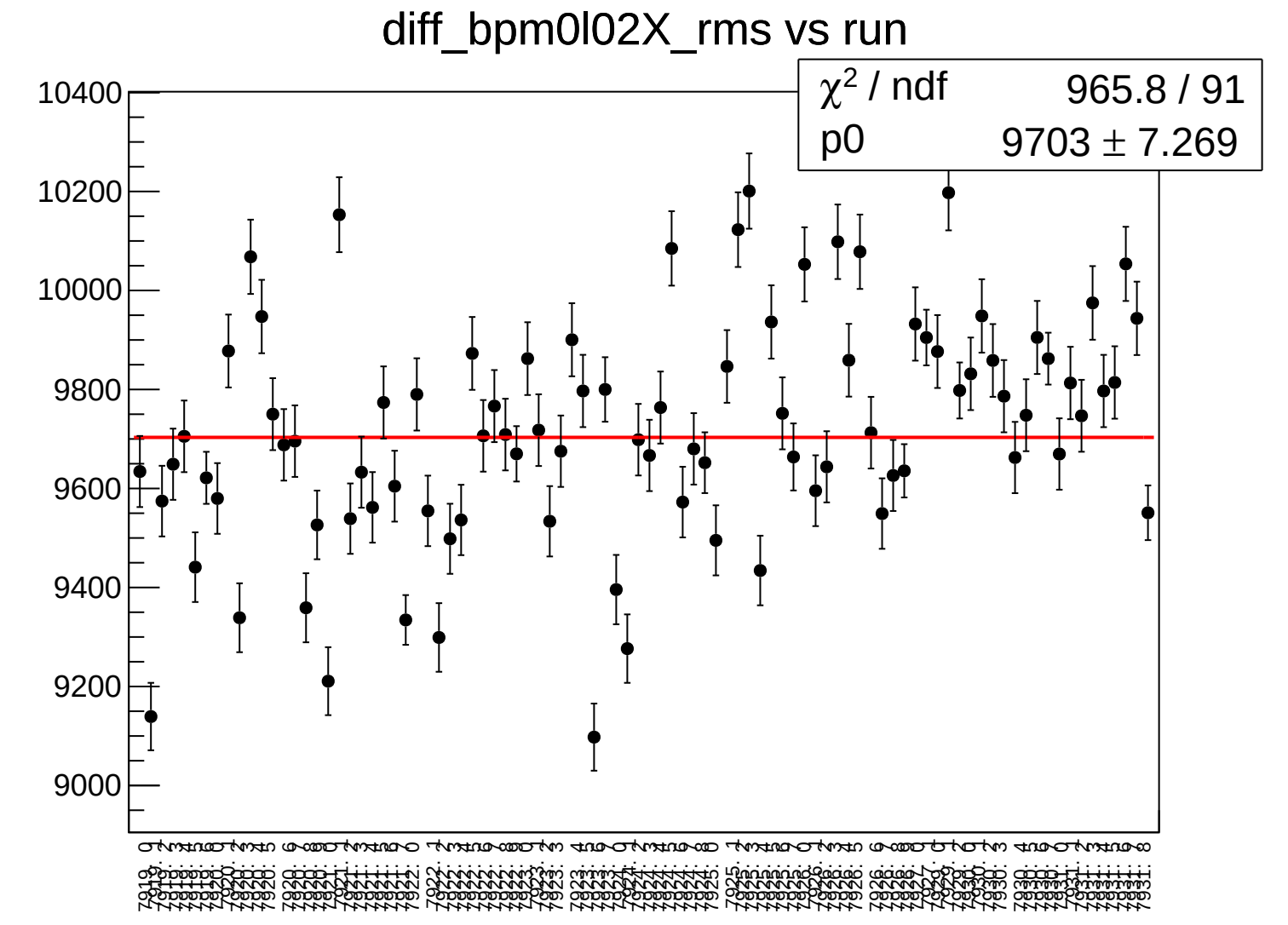

diff_bpm0l01Y_mean vs run
χ^2 / ndf 106.4 / 91
p0 16.43 ± 2.294
pull
Entries 92
Mean −624.5
Std Dev 0

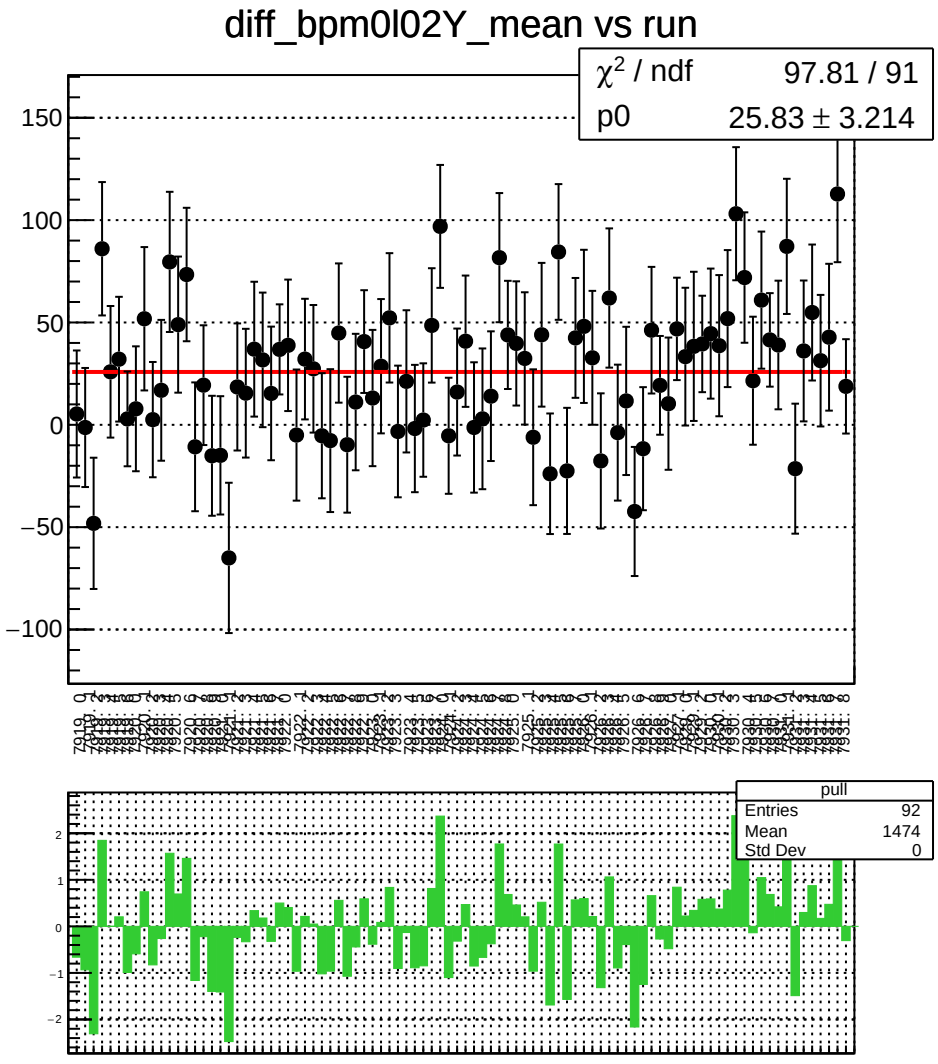

pull1D
Entries 92
Mean −0.01307
Std Dev 1.075

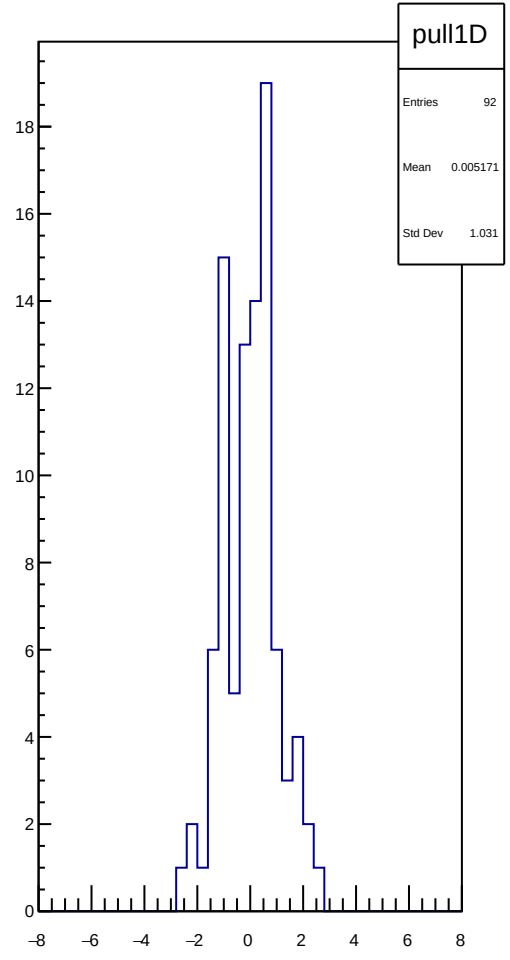

diff_bpm0l01Y_rms vs run
χ² / ndf 2883 / 91
p0 2165 ± 1.622
3000
2800
2600
2400
2200
2000

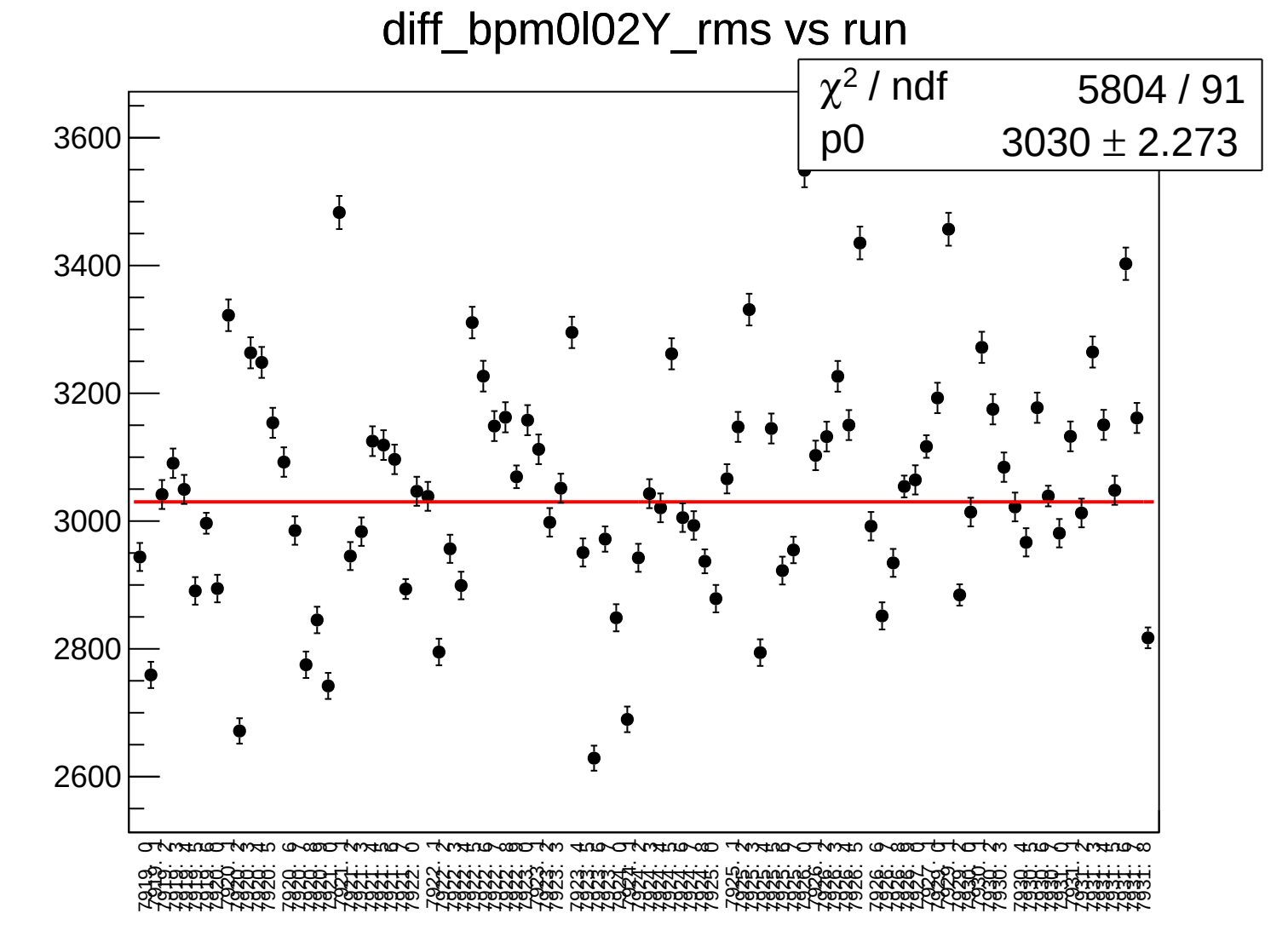

diff_bpm0l02X_mean vs run
χ² / ndf 99.76 / 91
p0 −142.2 ± 10.28
pull
Entries 92
Mean −927.3
Std Dev 0

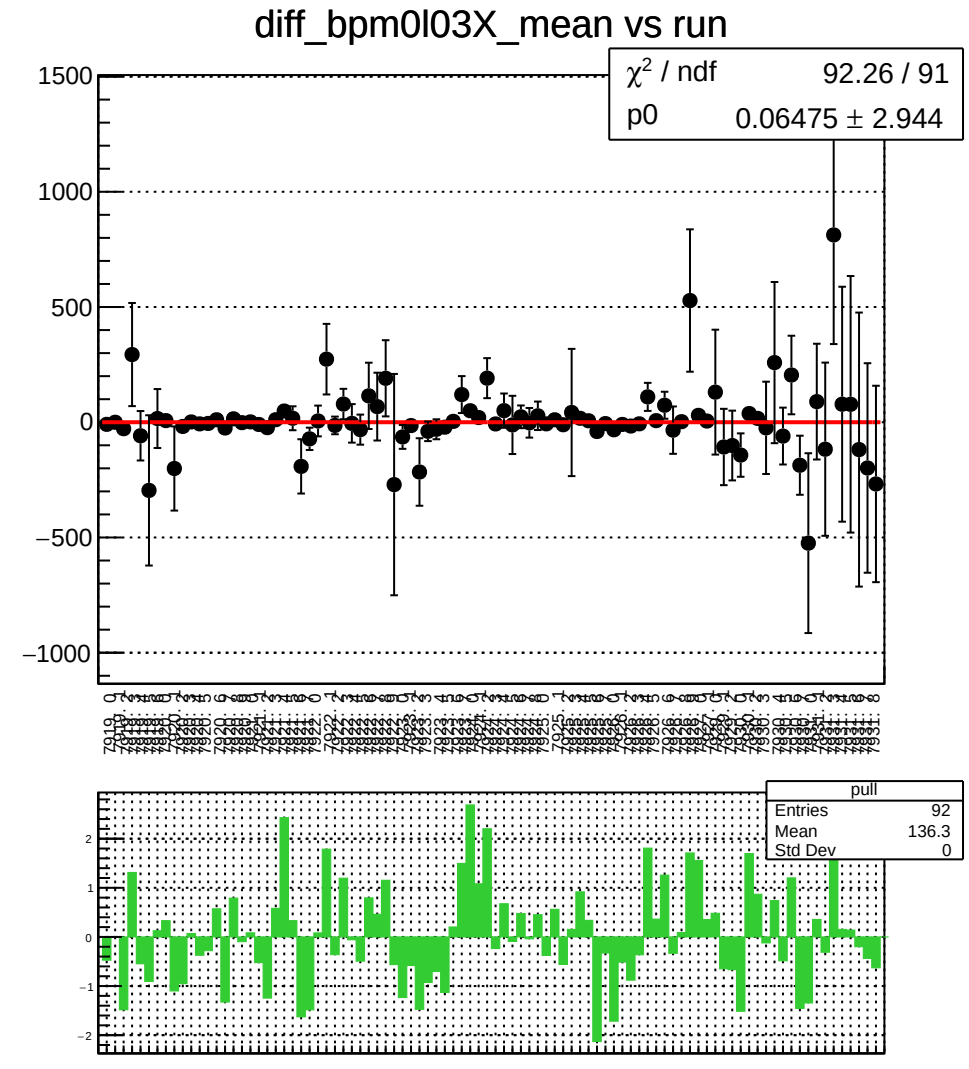

pull1D
Entries 92
Mean −0.007313
Std Dev 1.041

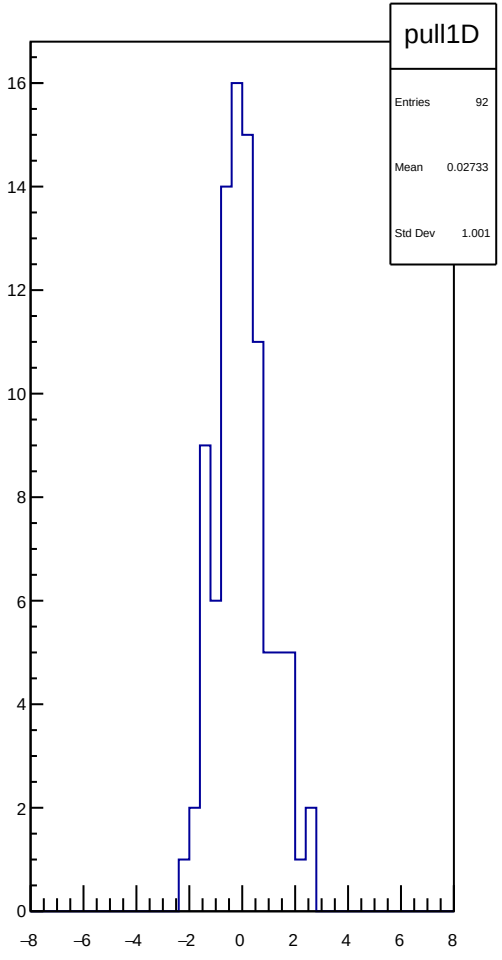

diff_bpm0l02X_rms vs run
χ² / ndf 965.8 / 91
p0 9703 ± 7.269
10400
10200
10000
9800
9600
9400
9200
9000

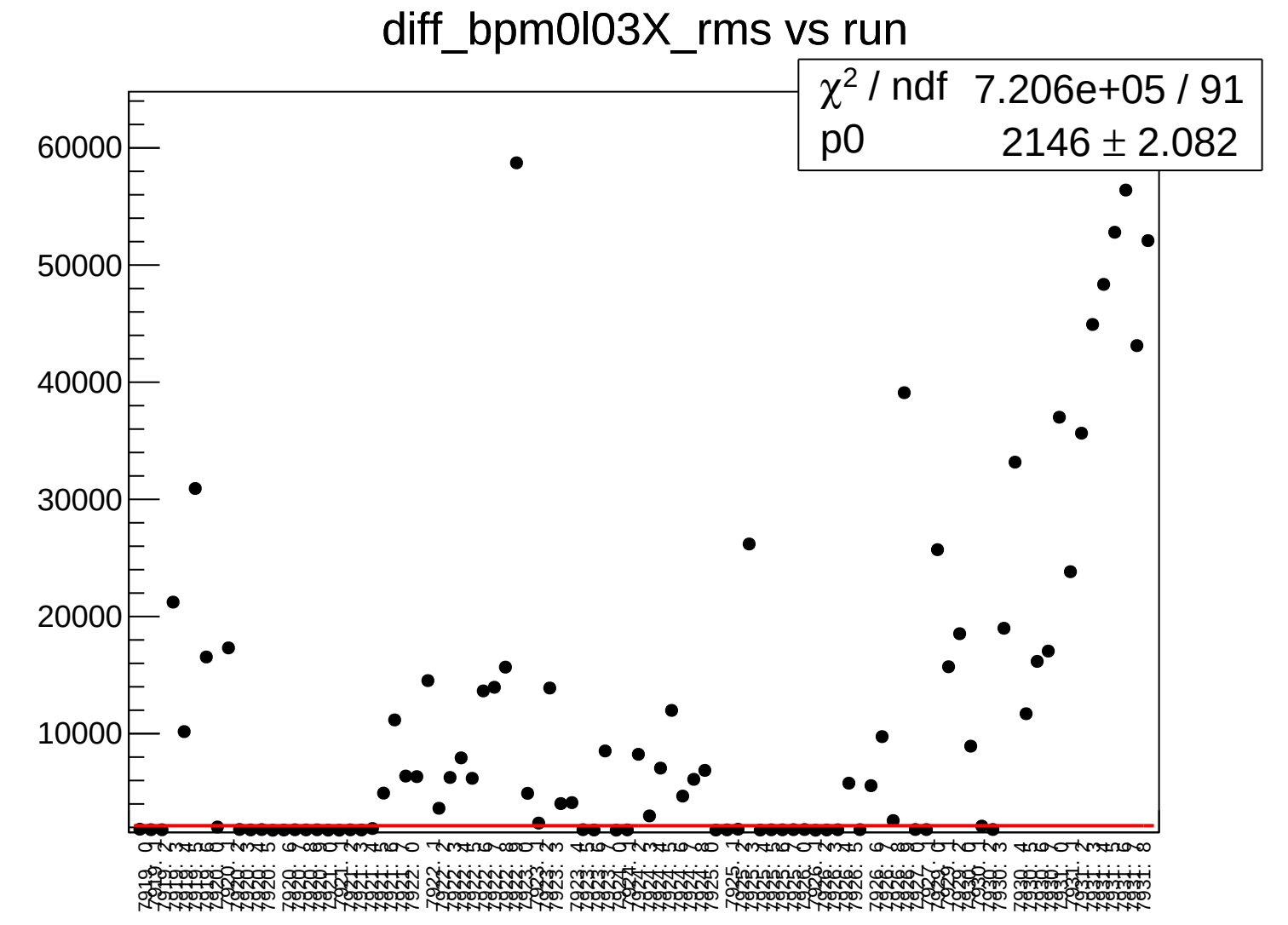

diff_bpm0l02Y_mean vs run
χ^2 / ndf 97.81 / 91
p0 25.83 ± 3.214
150
100
50
0
−50
−100
pull
Entries 92
Mean 1474
Std Dev 0
2
1
0
−1
−2

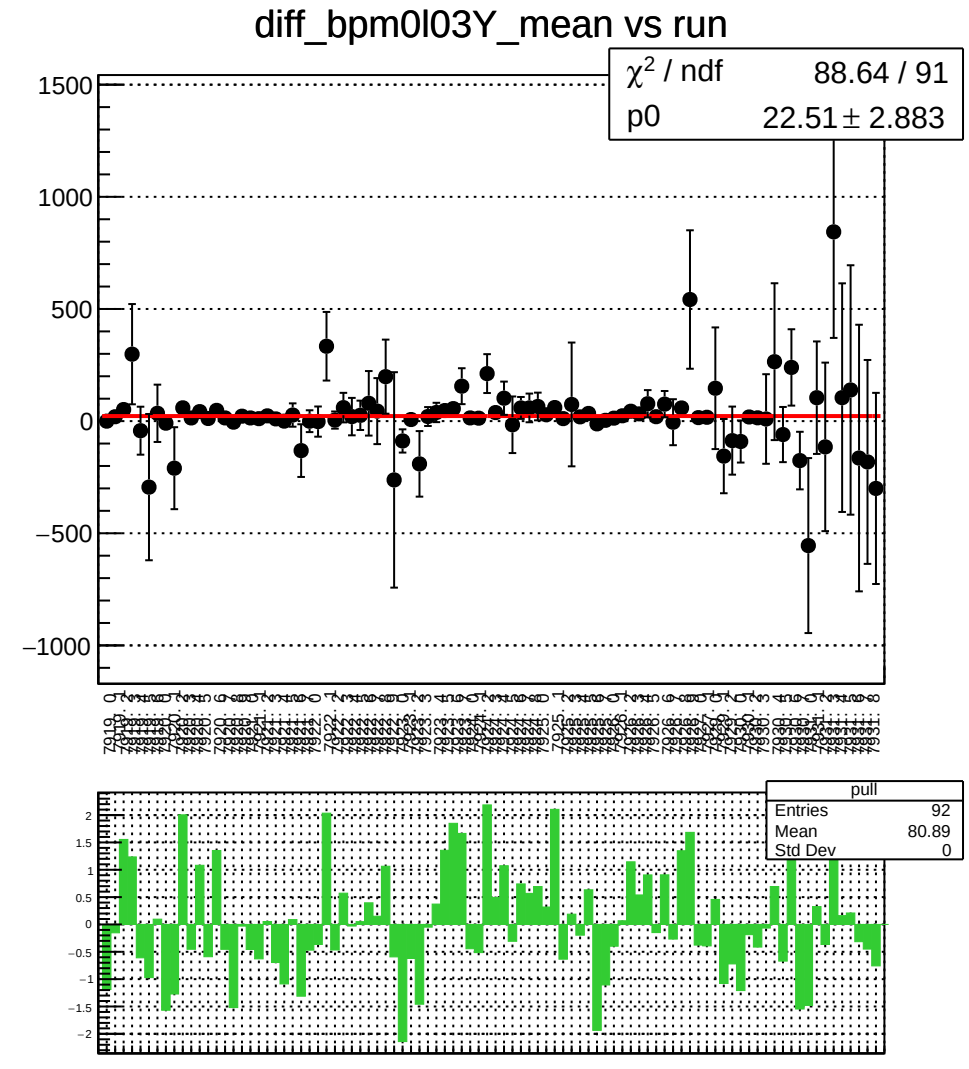

pull1D
Entries 92
Mean 0.005171
Std Dev 1.031
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

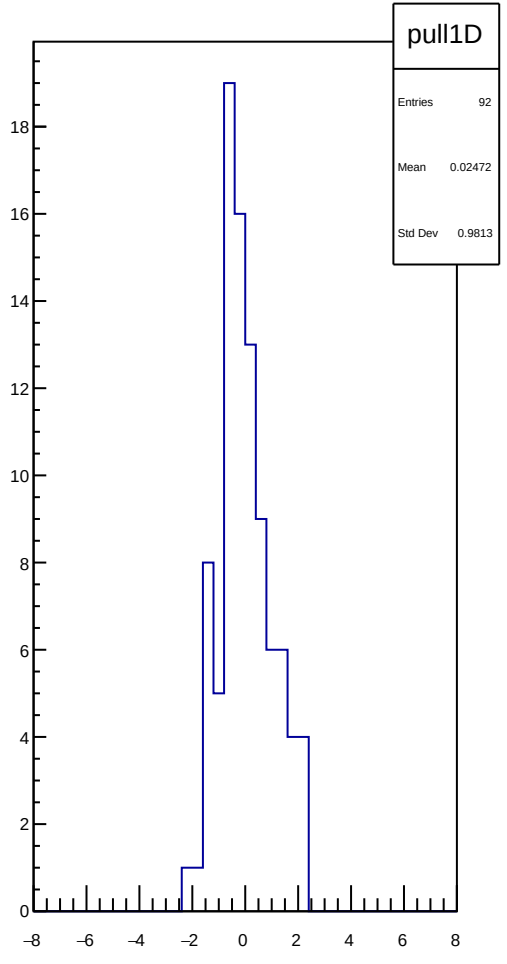

diff_bpm0l02Y_rms vs run
χ² / ndf 5804 / 91
p0 3030 ± 2.273
3600
3400
3200
3000
2800
2600

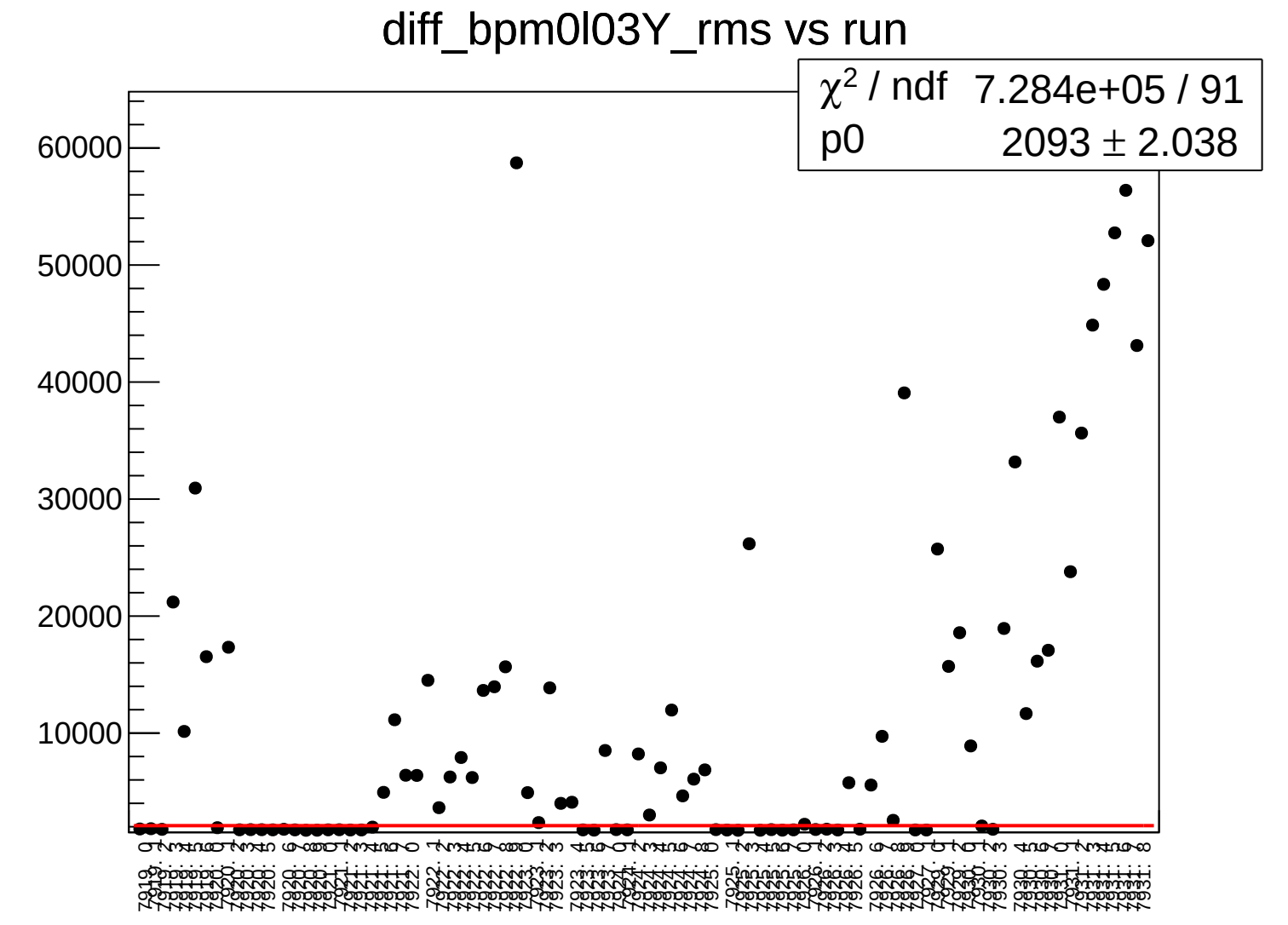

diff_bpm0l03X_mean vs run
χ^2 / ndf 92.26 / 91
p0 0.06475 ± 2.944
pull
Entries 92
Mean 136.3
Std Dev 0

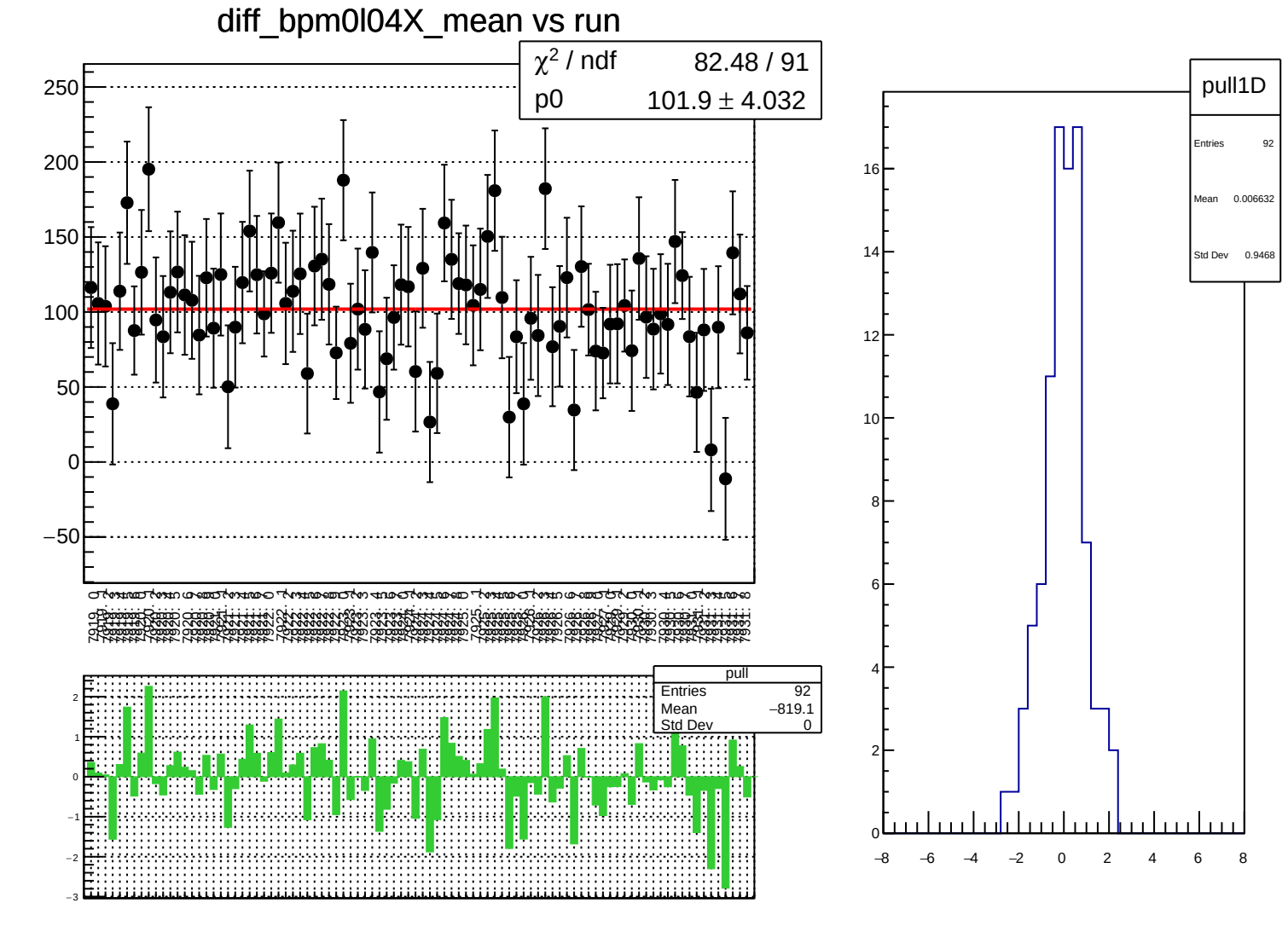

pull1D
Entries 92
Mean 0.02733
Std Dev 1.001

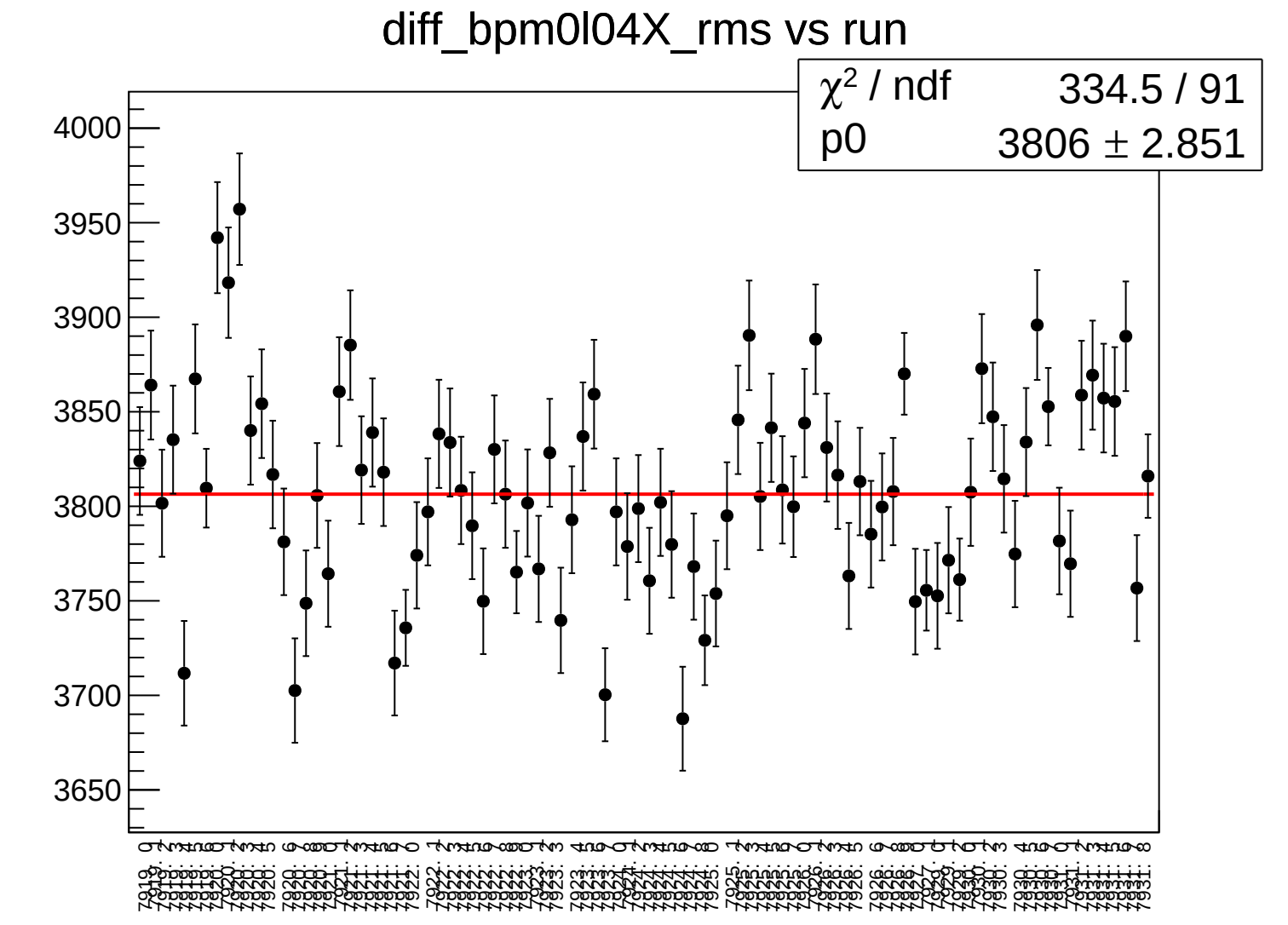

diff_bpm0l03X_rms vs run
χ^2 / ndf 7.206e+05 / 91
p0 2146 ± 2.082
60000
50000
40000
30000
20000
10000

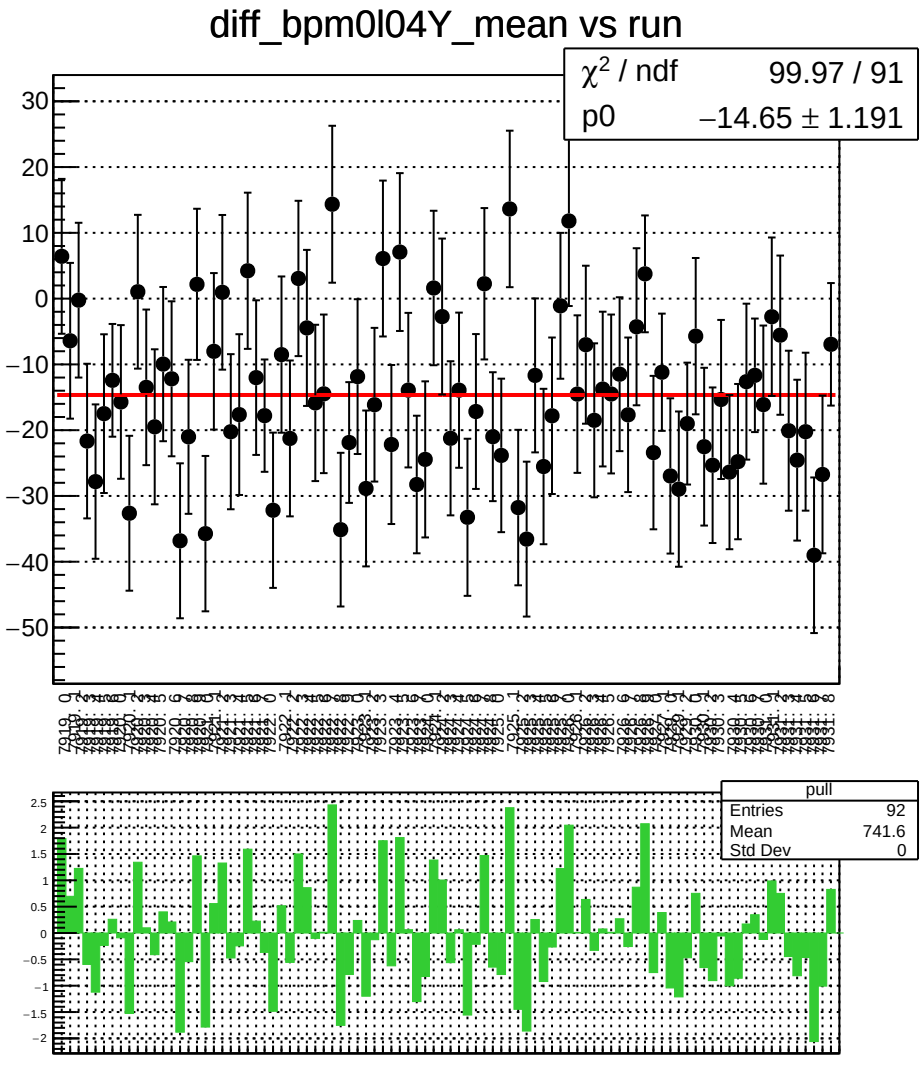

diff_bpm0l03Y_mean vs run
χ² / ndf 88.64 / 91
p0 22.51 ± 2.883
1500
1000
500
0
−500
−1000
pull
Entries 92
Mean 80.89
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

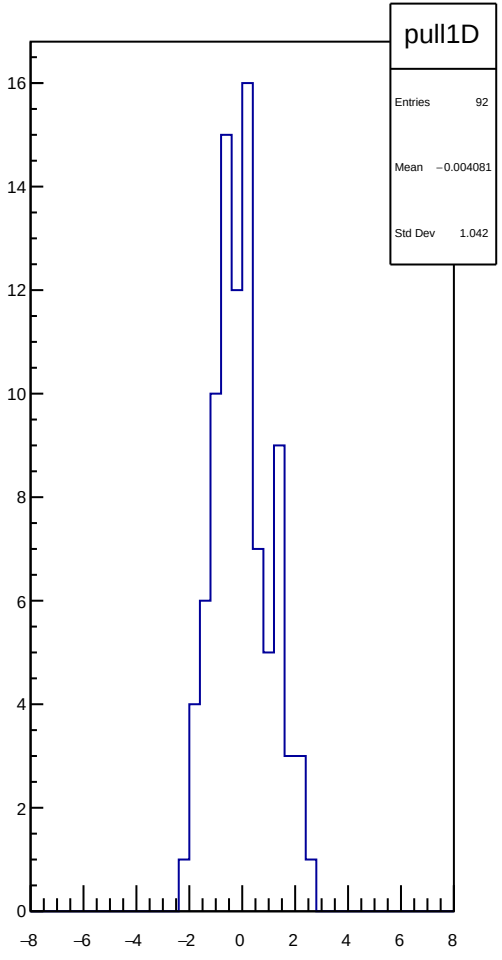

pull1D
Entries 92
Mean 0.02472
Std Dev 0.9813
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

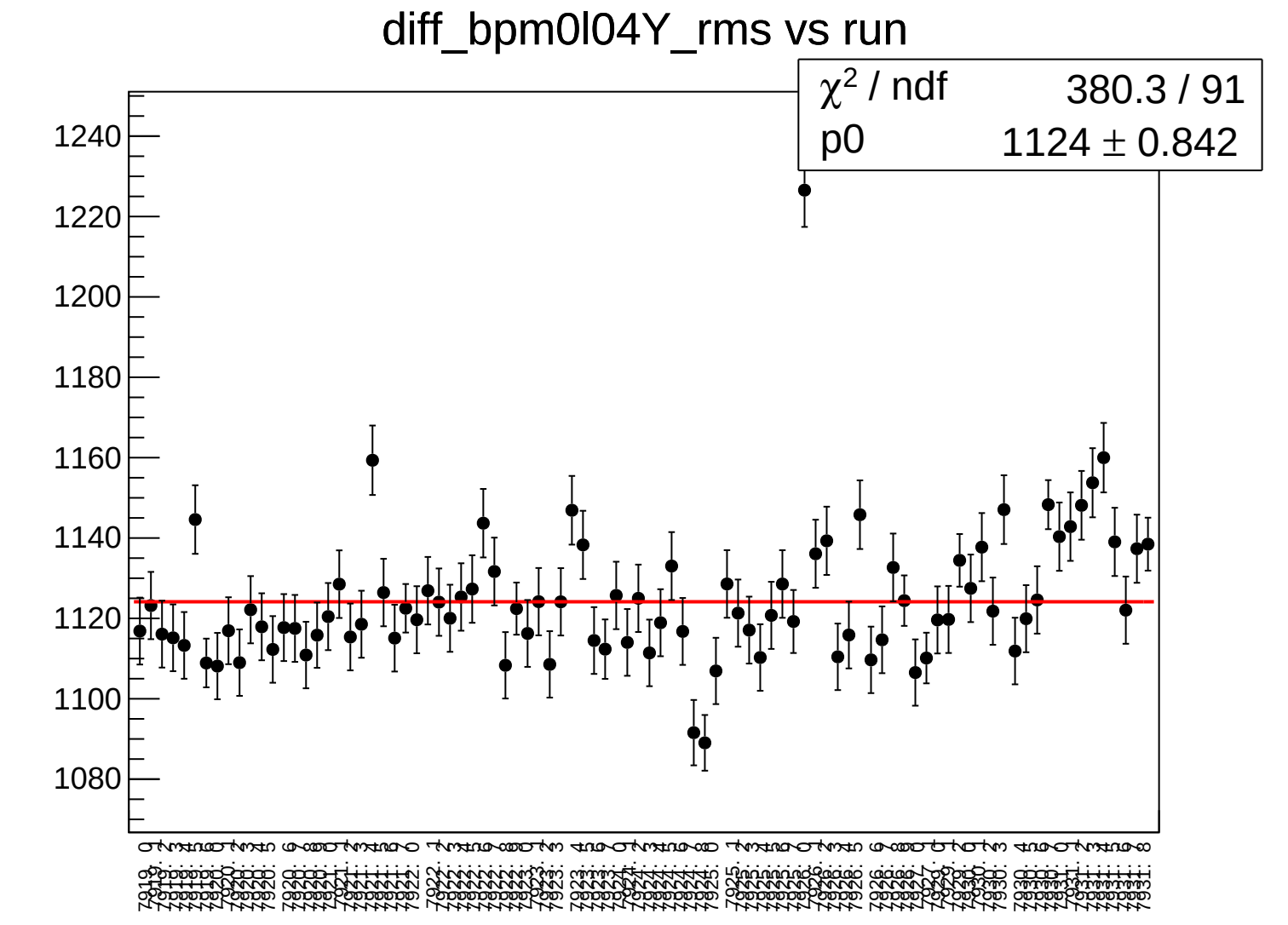

diff_bpm0l03Y_rms vs run
χ^2 / ndf 7.284e+05 / 91
p0 2093 ± 2.038
60000
50000
40000
30000
20000
10000

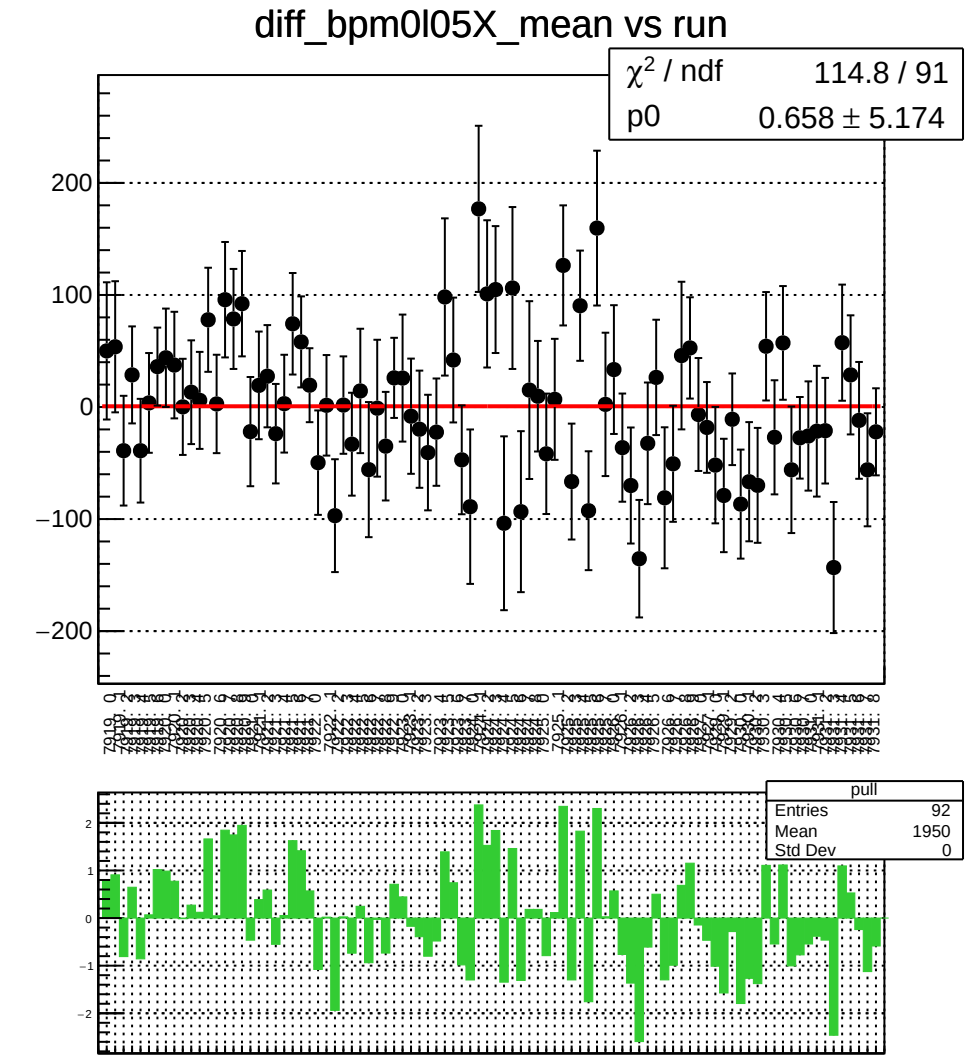

diff_bpm0l04X_mean vs run
χ^2 / ndf 82.48 / 91
p0 101.9 ± 4.032
pull
Entries 92
Mean −819.1
Std Dev 0
pull1D
Entries 92
Mean 0.006632
Std Dev 0.9468

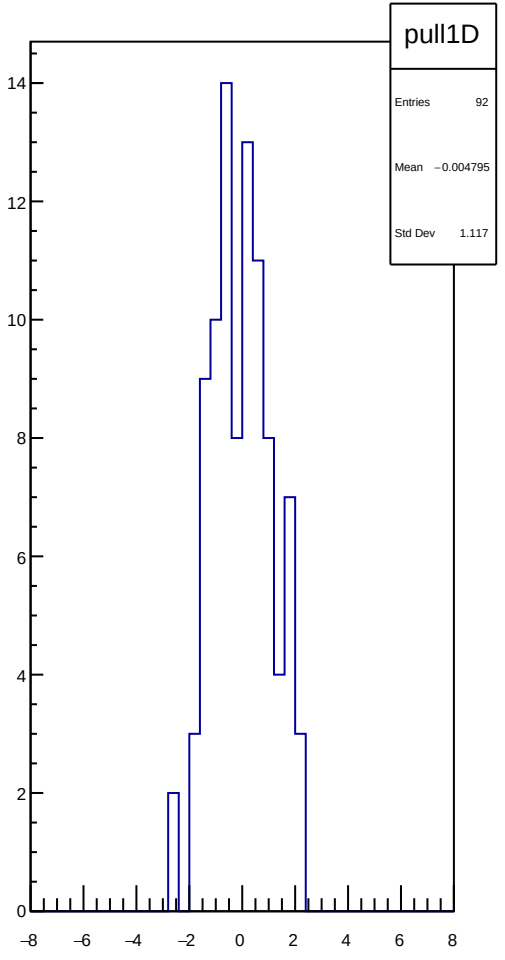

diff_bpm0l04X_rms vs run
χ² / ndf 334.5 / 91
p0 3806 ± 2.851
4000
3950
3900
3850
3800
3750
3700
3650

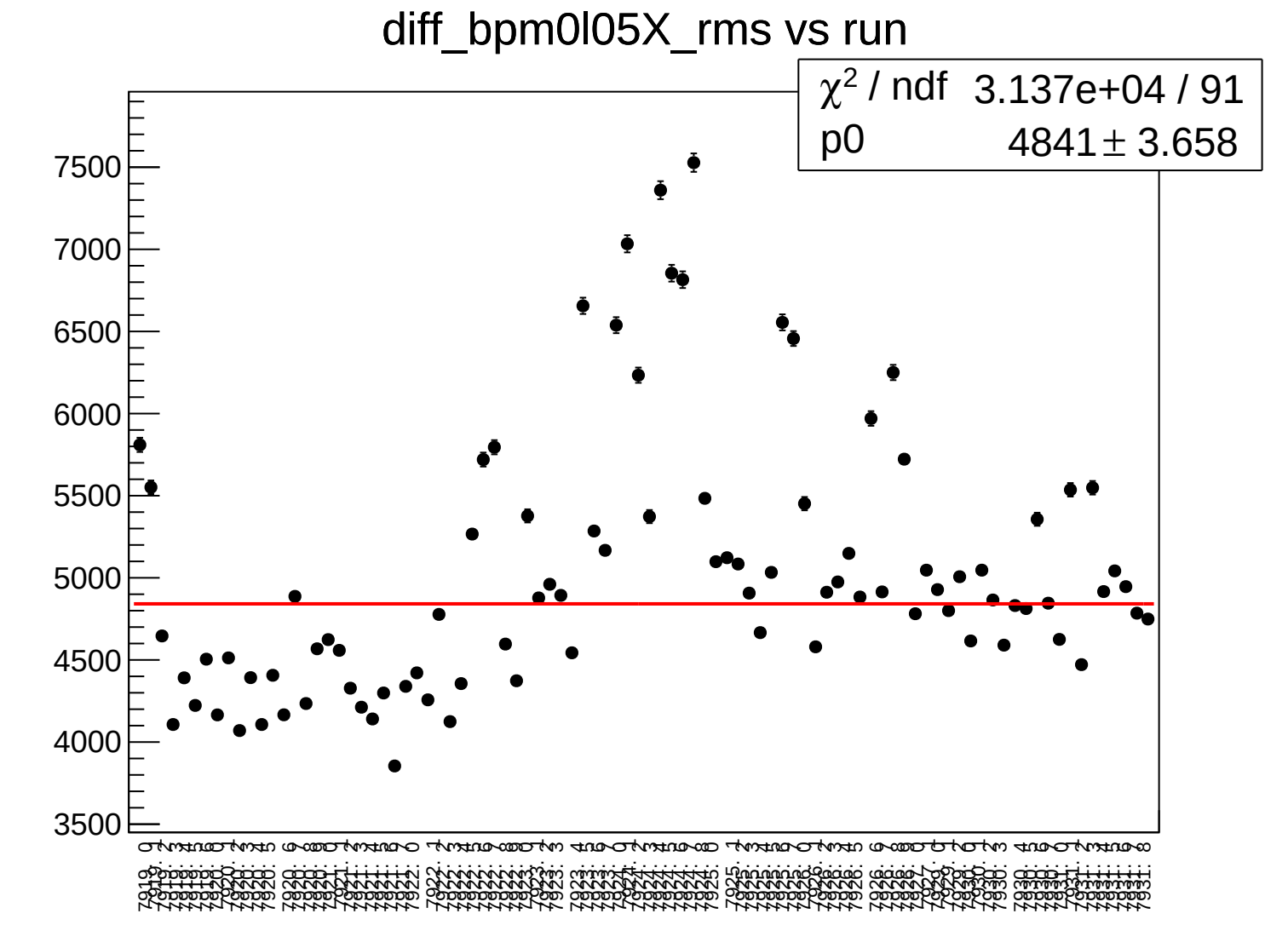

diff_bpm0l04Y_mean vs run
χ^2 / ndf 99.97 / 91
p0 −14.65 ± 1.191
pull
Entries 92
Mean 741.6
Std Dev 0

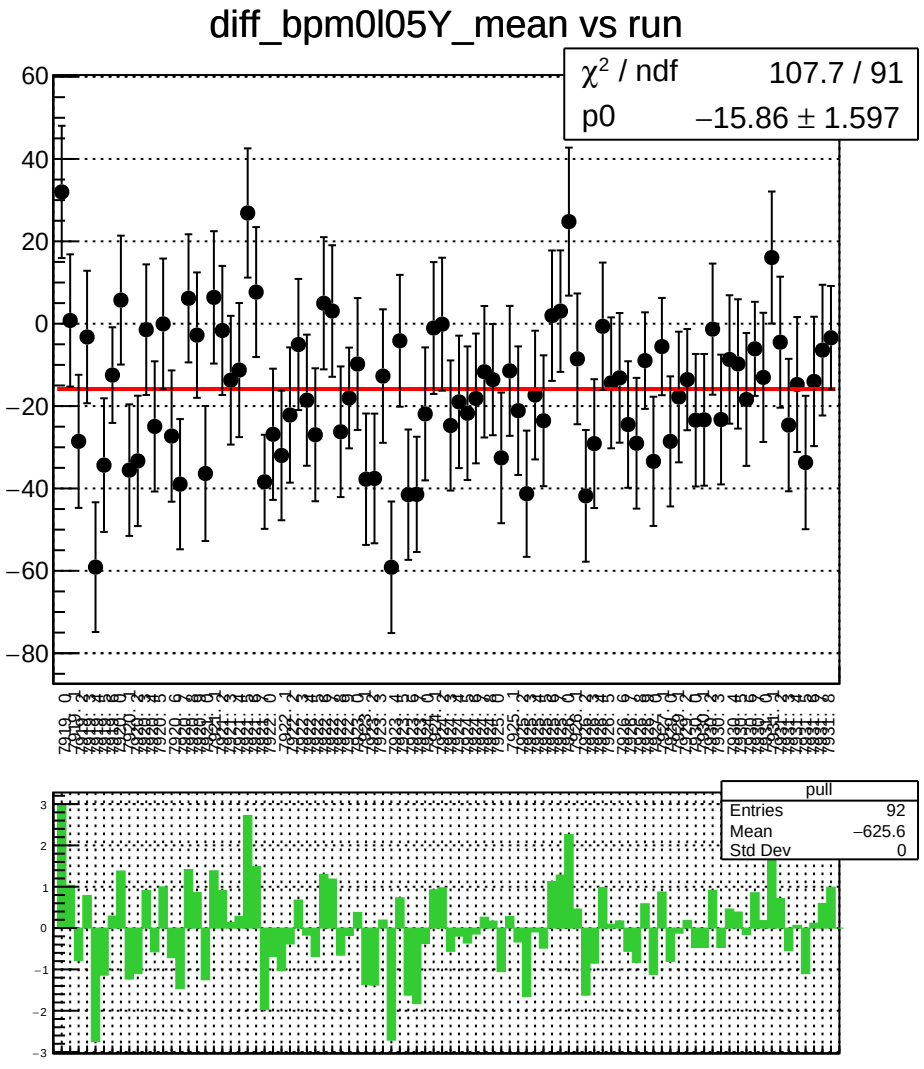

pull1D
Entries 92
Mean −0.004081
Std Dev 1.042

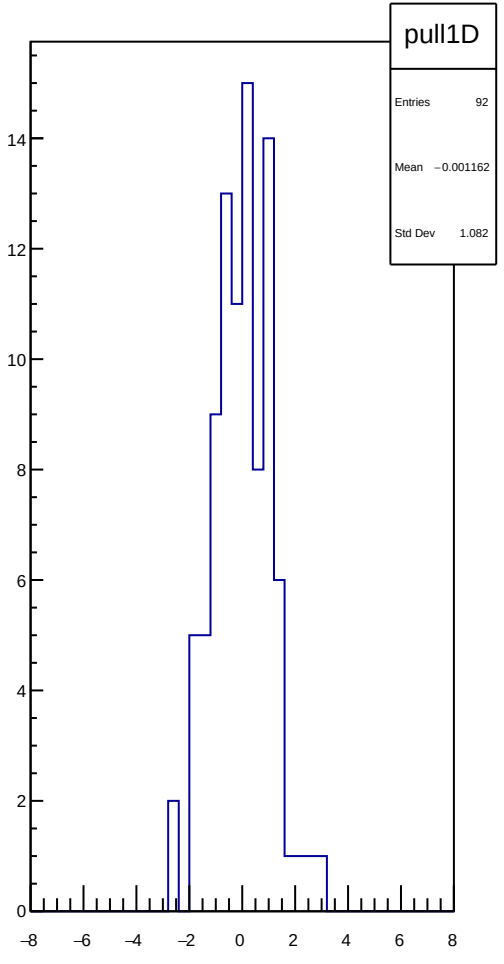

diff_bpm0l04Y_rms vs run
χ^2 / ndf 380.3 / 91
p0 1124 ± 0.842
1240
1220
1200
1180
1160
1140
1120
1100
1080

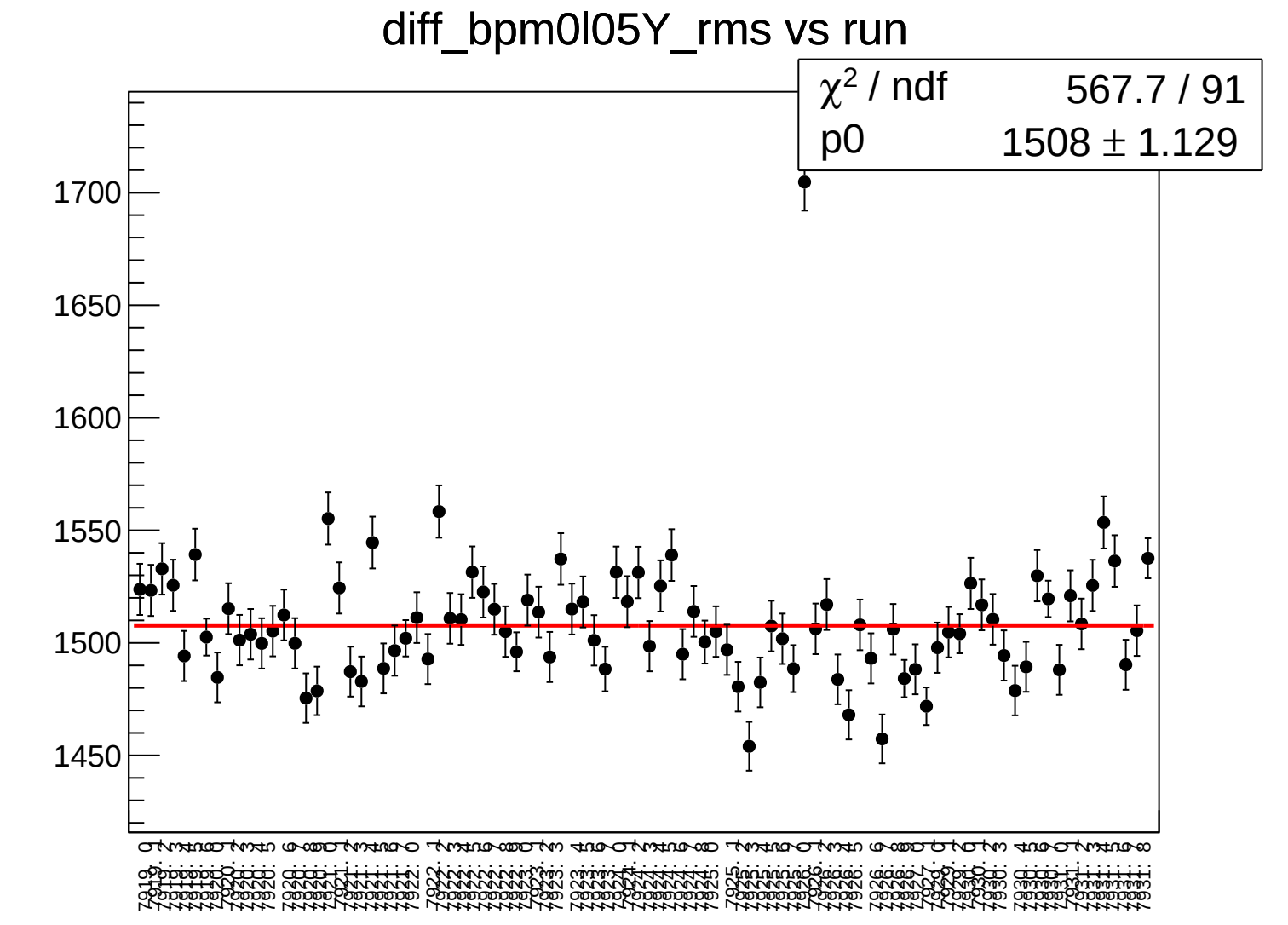

diff_bpm0l05X_mean vs run
χ^2 / ndf 114.8 / 91
p0 0.658 ± 5.174
pull
Entries 92
Mean 1950
Std Dev 0

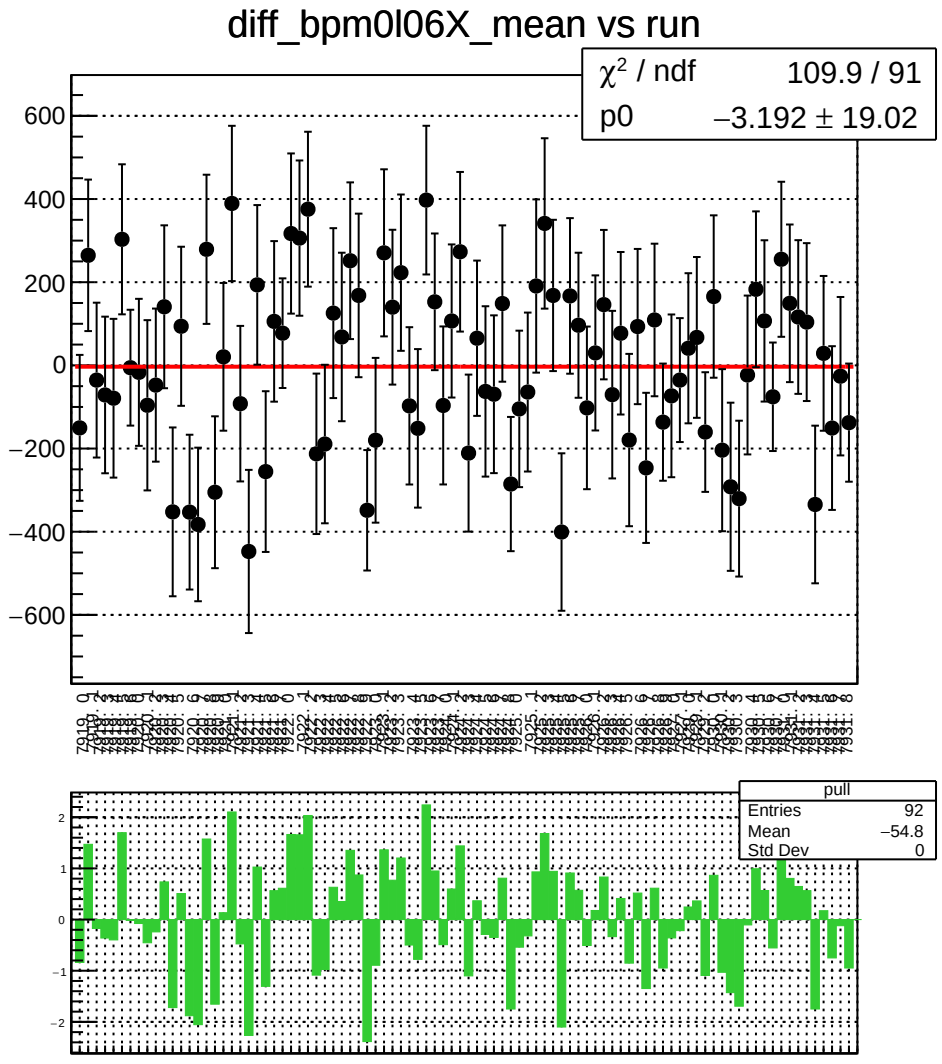

pull1D
Entries 92
Mean −0.004795
Std Dev 1.117

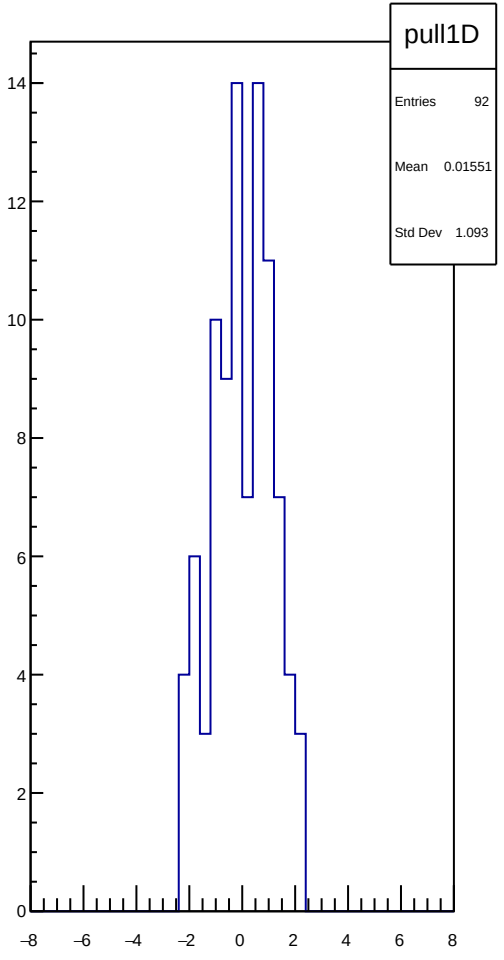

diff_bpm0l05X_rms vs run
χ^2 / ndf 3.137e+04 / 91
p0 4841 ± 3.658
7500
7000
6500
6000
5500
5000
4500
4000
3500

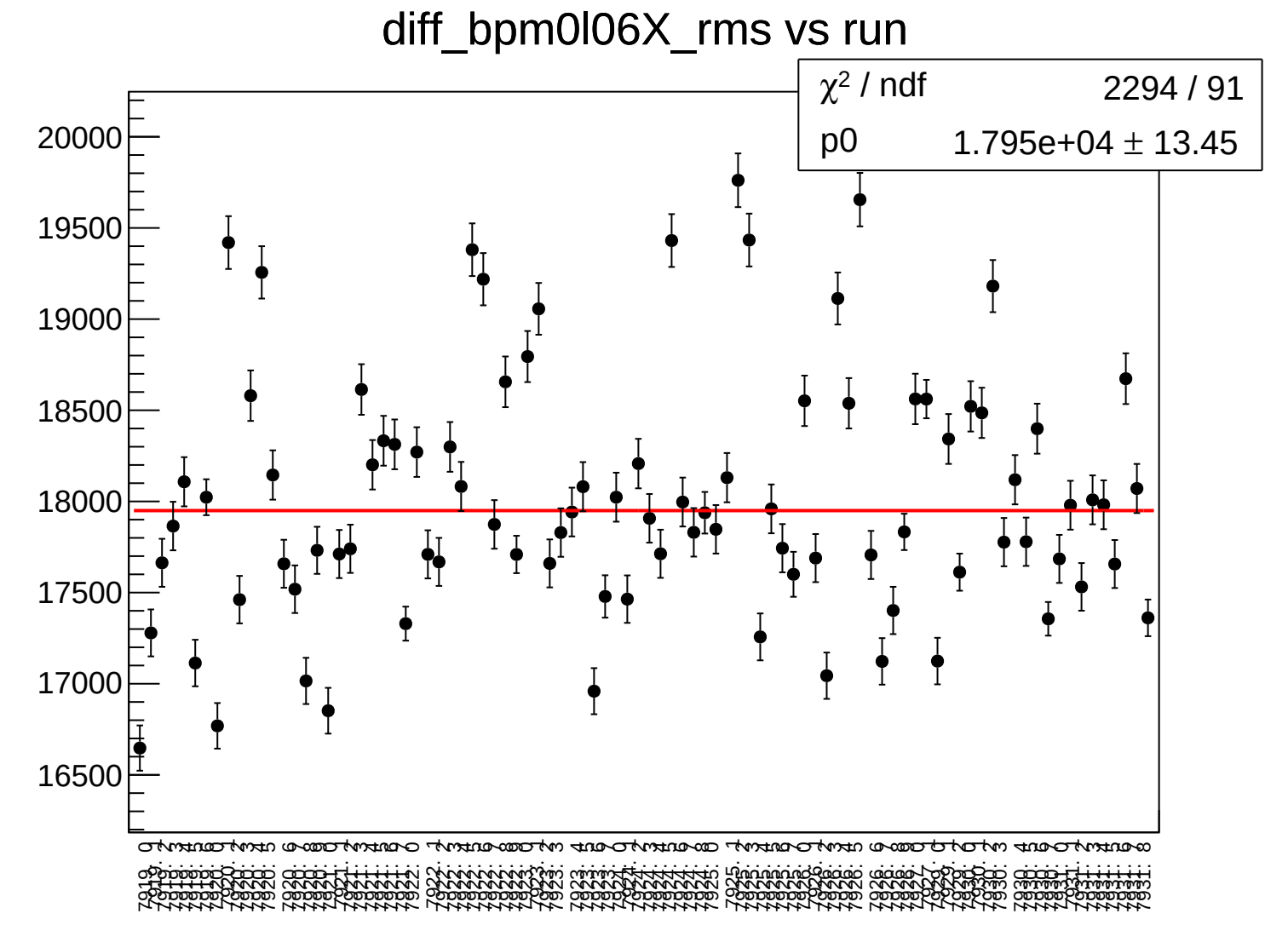

diff_bpm0l05Y_mean vs run
χ² / ndf 107.7 / 91
p0 −15.86 ± 1.597
pull
Entries 92
Mean −625.6
Std Dev 0

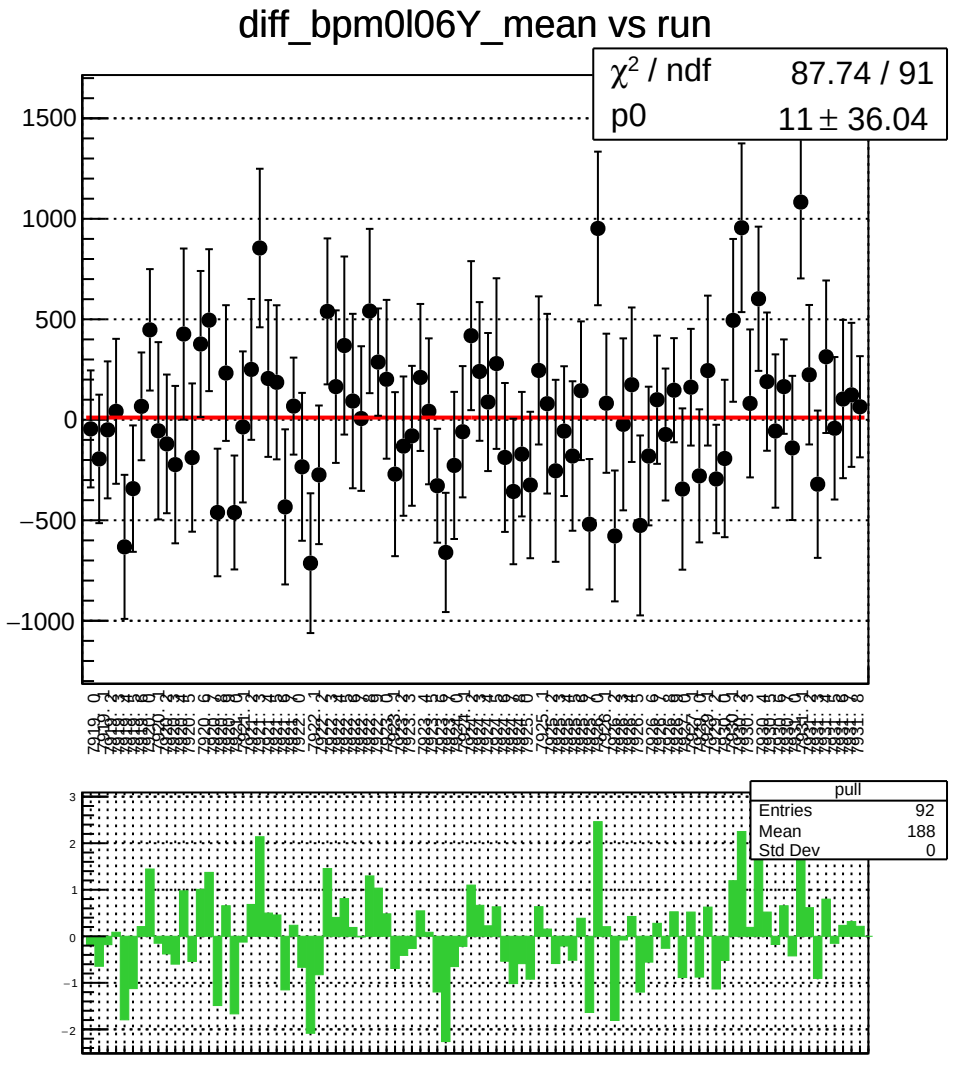

pull1D
Entries 92
Mean −0.001162
Std Dev 1.082

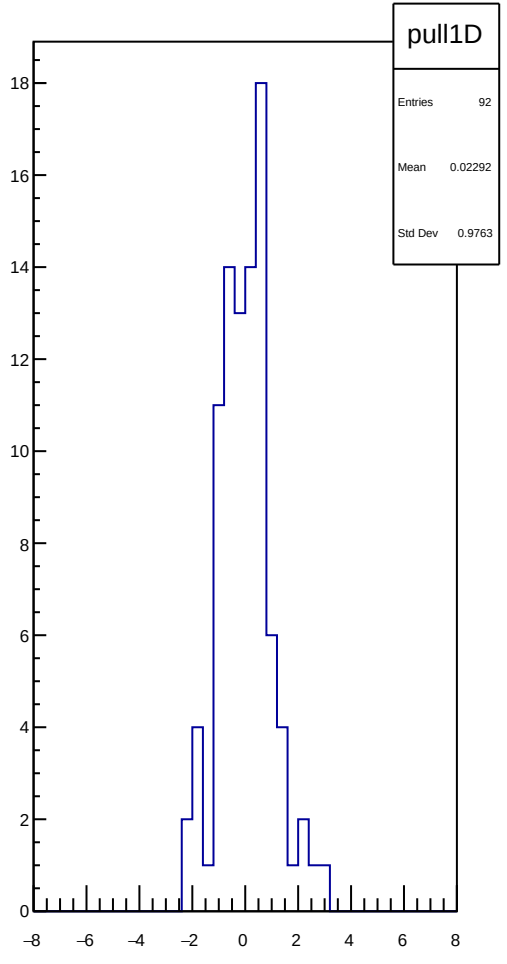

diff_bpm0l05Y_rms vs run
χ² / ndf 567.7 / 91
p0 1508 ± 1.129
1700
1650
1600
1550
1500
1450

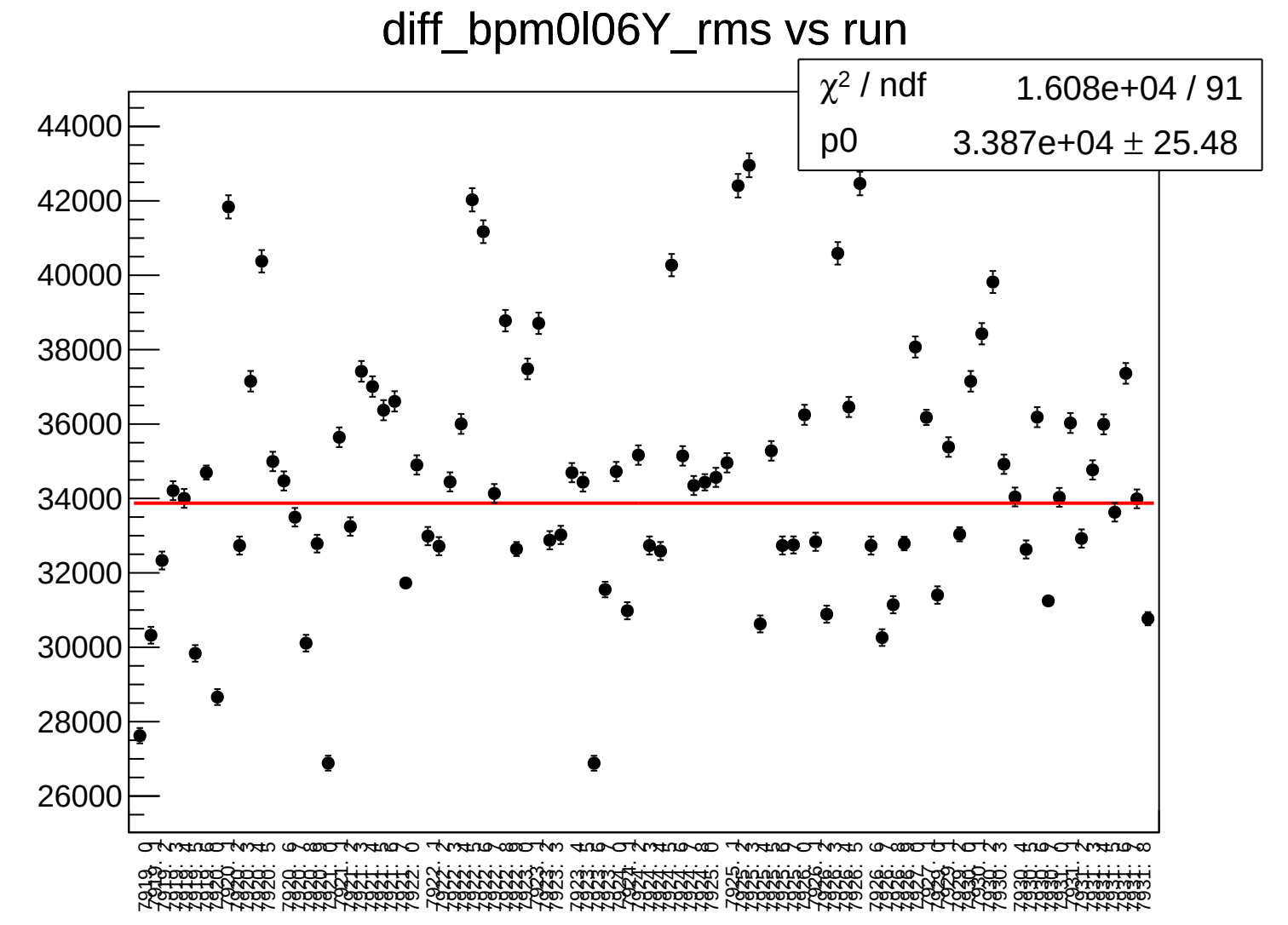

diff_bpm0l06X_mean vs run
χ² / ndf 109.9 / 91
p0 −3.192 ± 19.02
pull
Entries 92
Mean −54.8
Std Dev 0

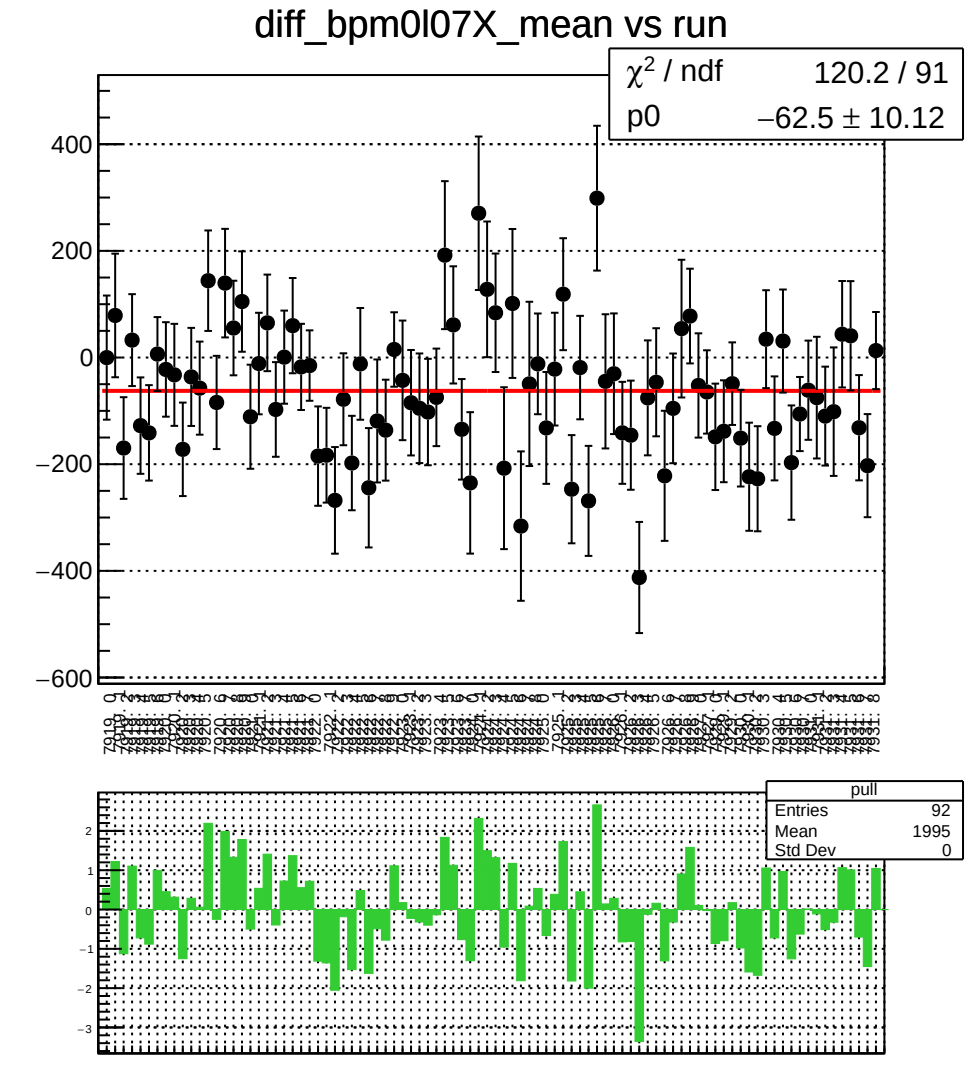

pull1D
Entries 92
Mean 0.01551
Std Dev 1.093

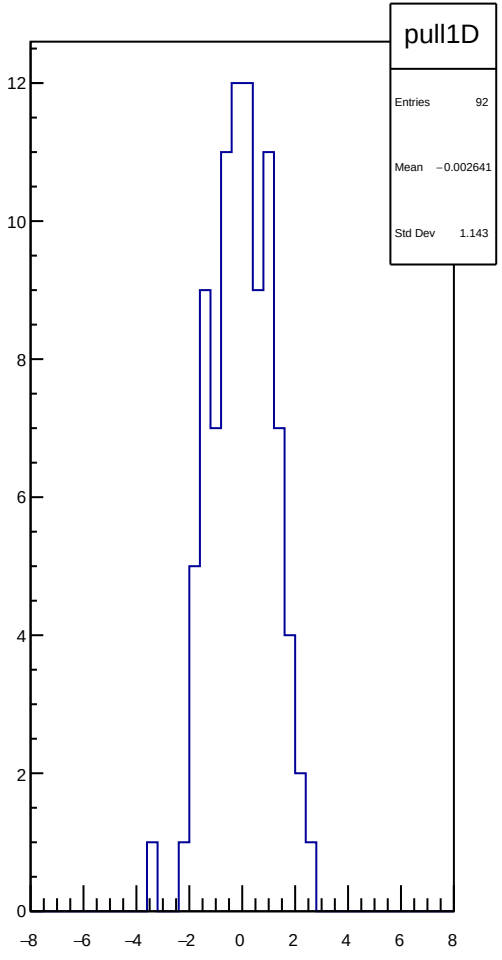

diff_bpm0l06X_rms vs run
χ² / ndf 2294 / 91
p0 1.795e+04 ± 13.45
20000
19500
19000
18500
18000
17500
17000
16500

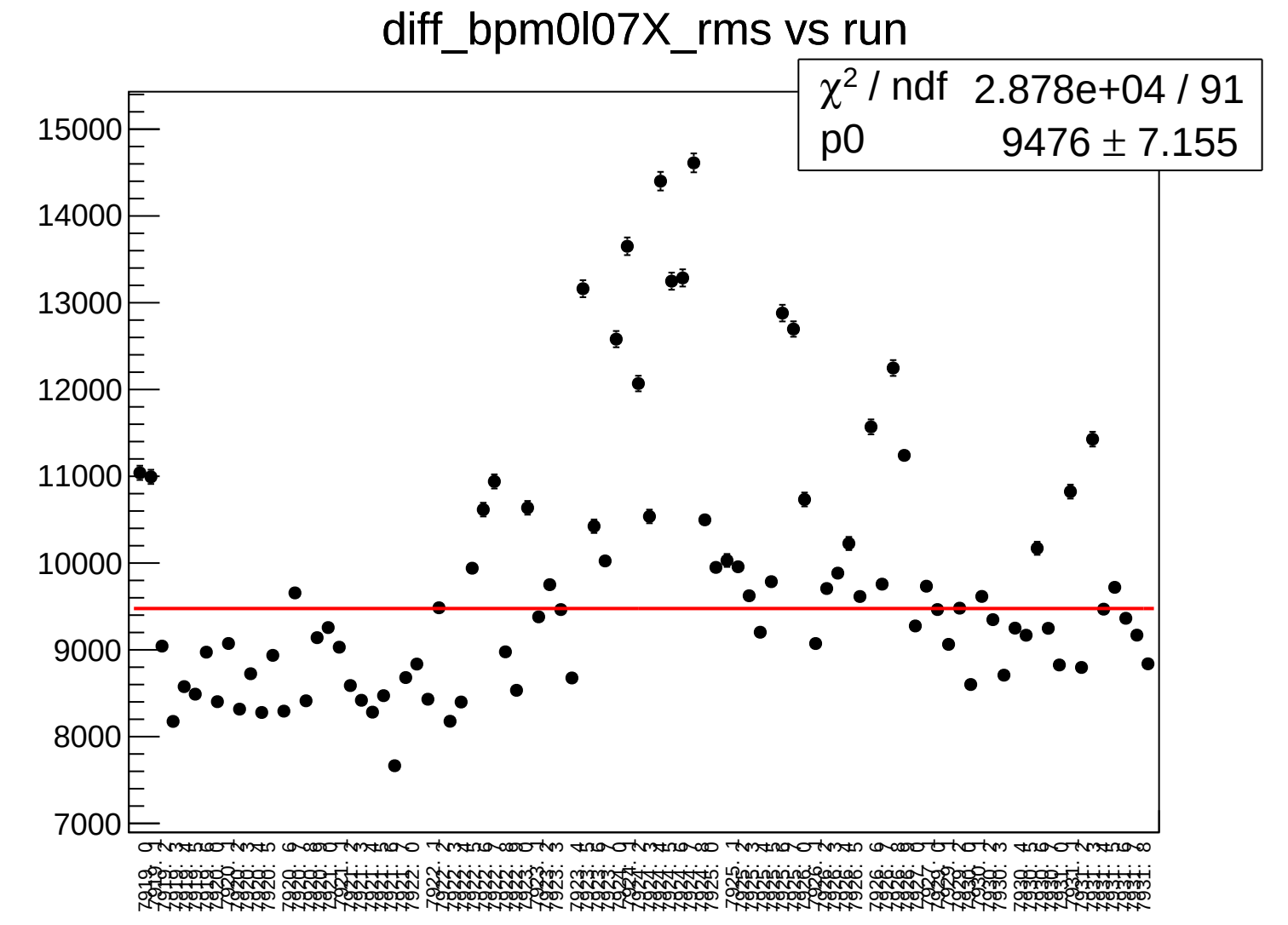

diff_bpm0l06Y_mean vs run
χ² / ndf 87.74 / 91
p0 11 ± 36.04
1500
1000
500
0
−500
−1000
pull
Entries 92
Mean 188
Std Dev 0
3
2
1
0
−1
−2

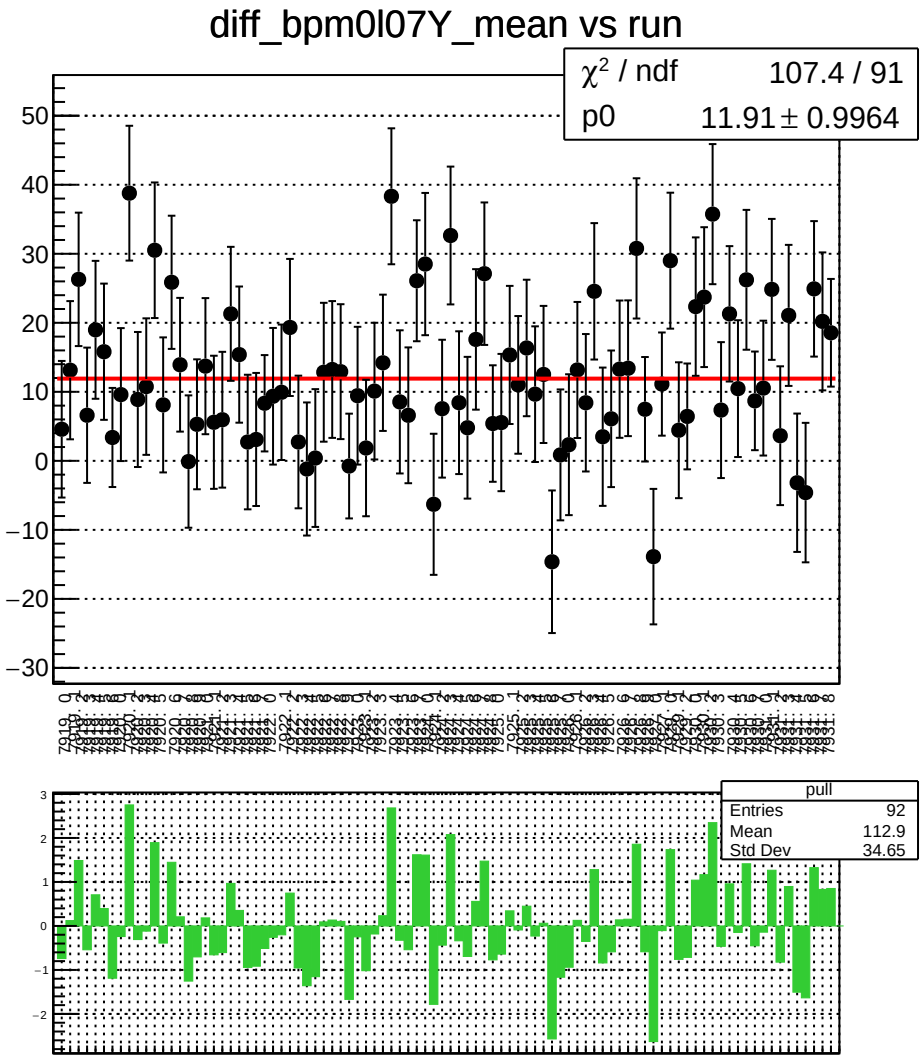

pull1D
Entries 92
Mean 0.02292
Std Dev 0.9763
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

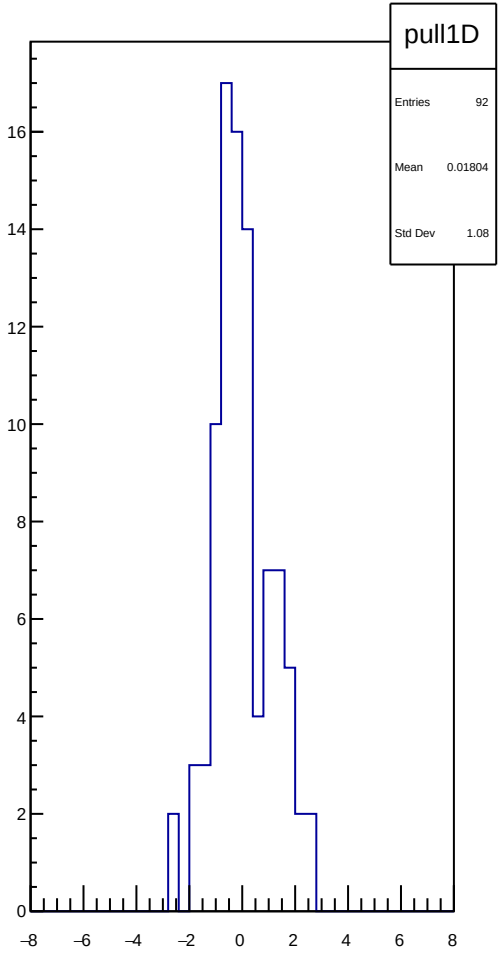

diff_bpm0l06Y_rms vs run
χ² / ndf 1.608e+04 / 91
p0 3.387e+04 ± 25.48
44000
42000
40000
38000
36000
34000
32000
30000
28000
26000

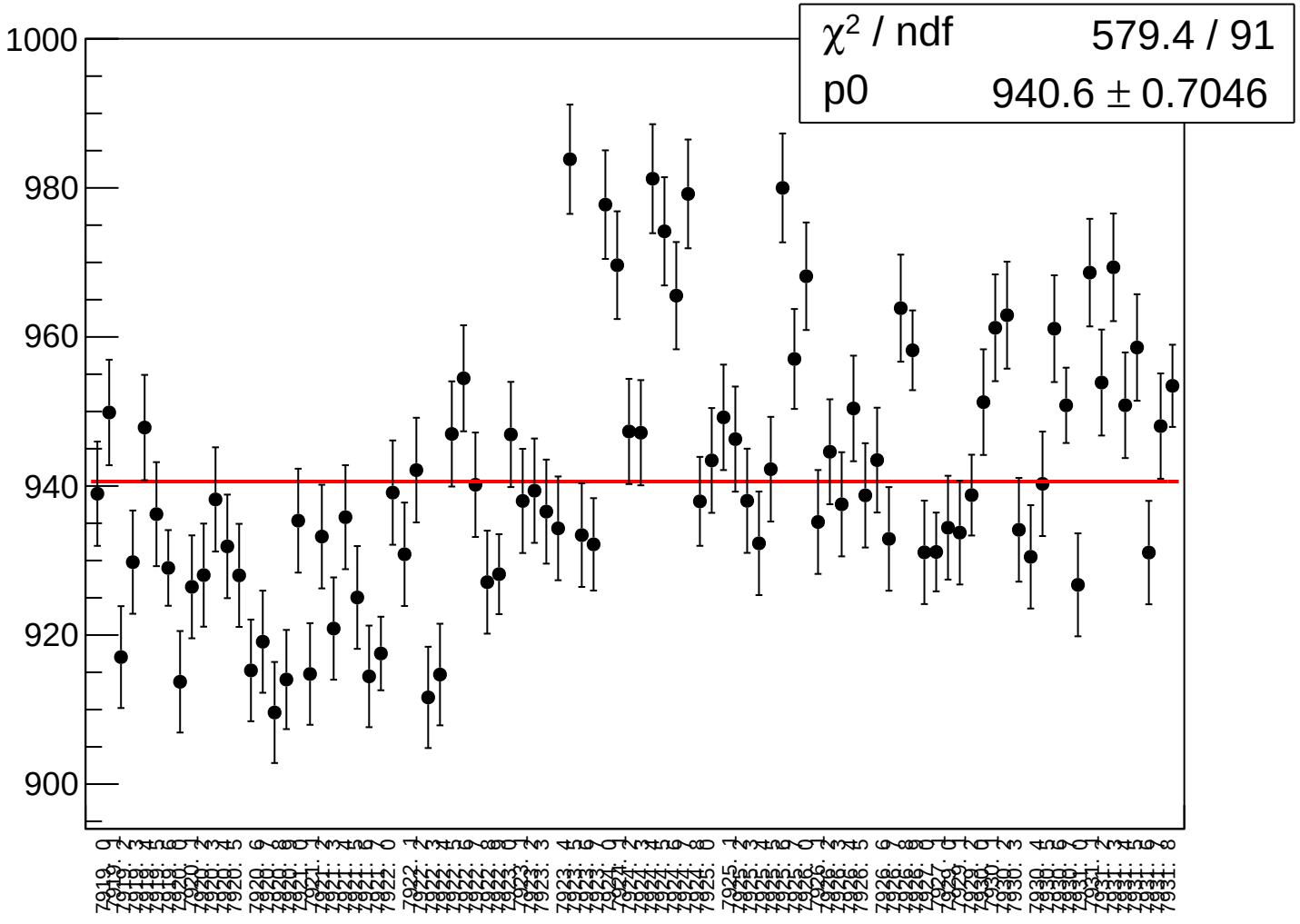

diff_bpm0l07X_mean vs run
χ² / ndf 120.2 / 91
p0 −62.5 ± 10.12
pull
Entries 92
Mean 1995
Std Dev 0

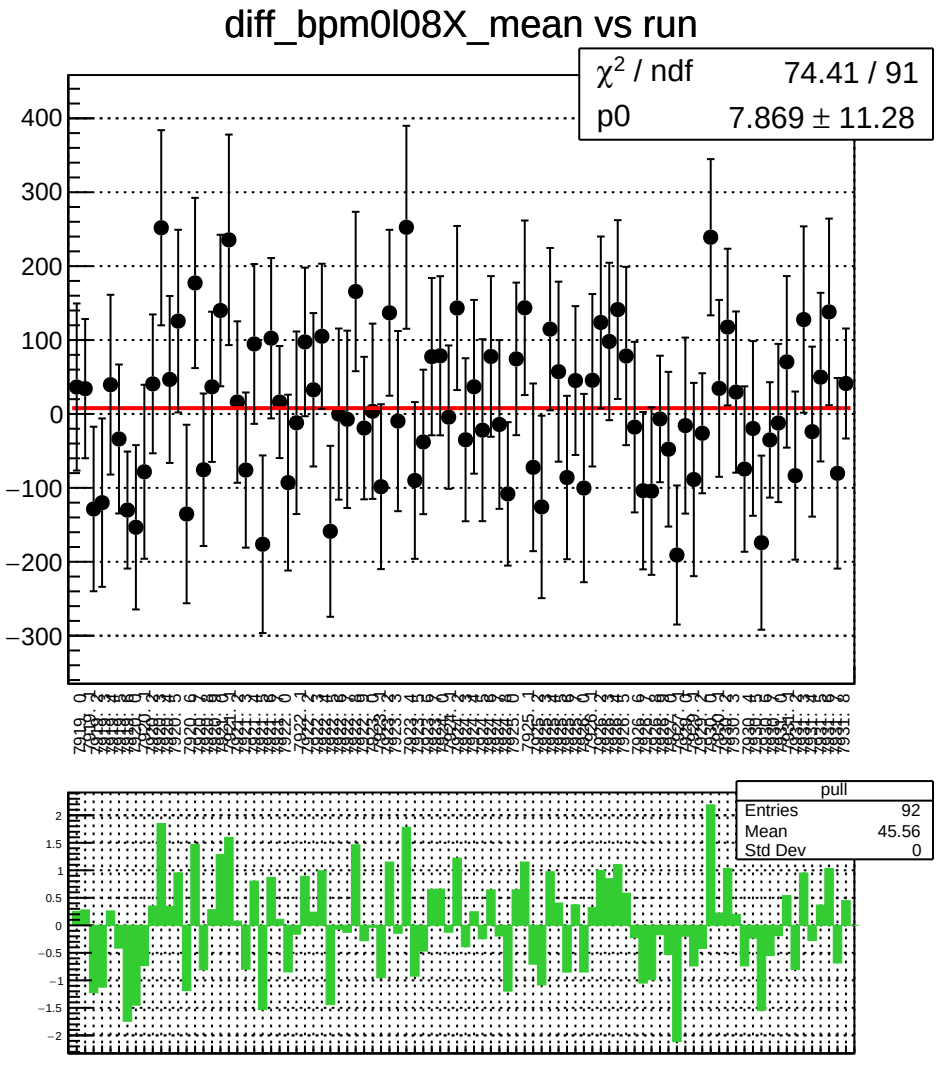

pull1D
Entries 92
Mean −0.002641
Std Dev 1.143

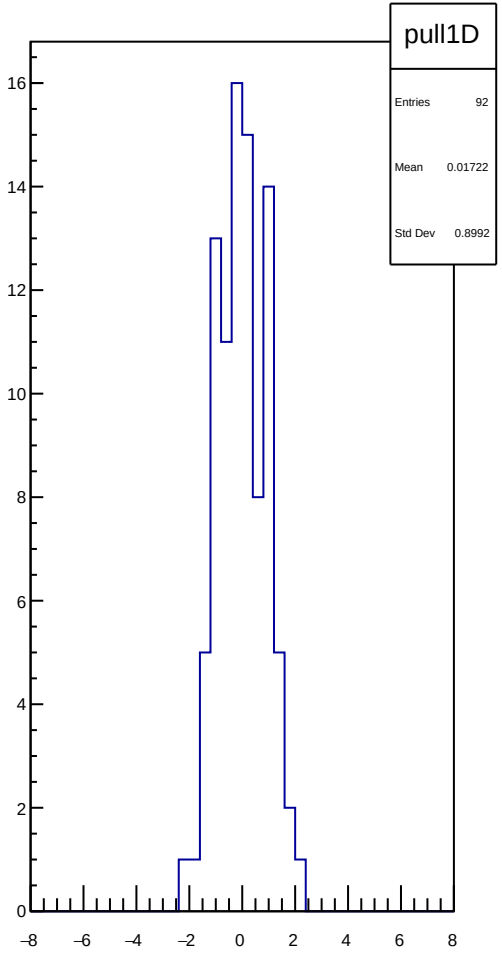

diff_bpm0l07X_rms vs run
χ² / ndf 2.878e+04 / 91
p0 9476 ± 7.155
15000
14000
13000
12000
11000
10000
9000
8000
7000

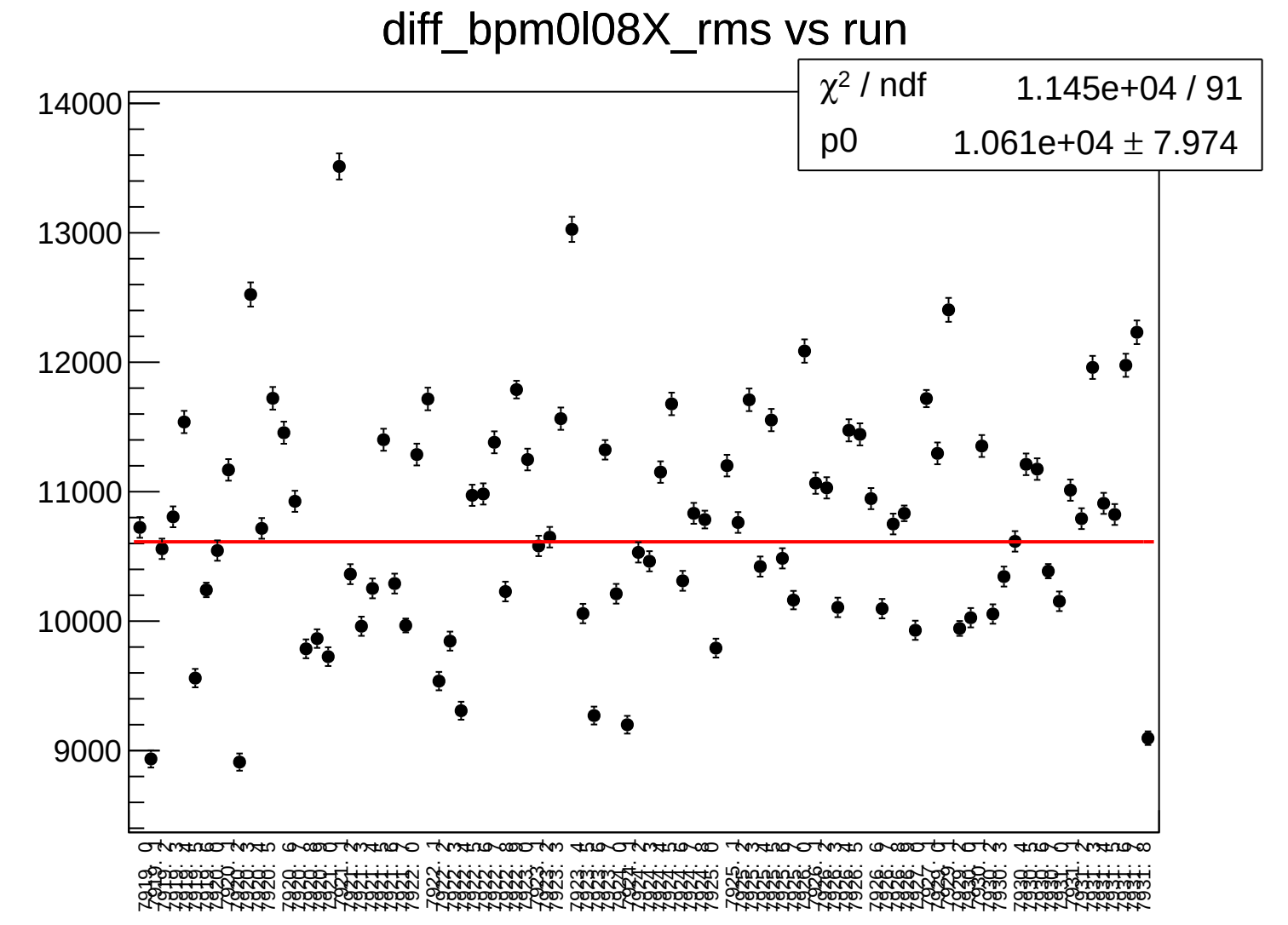

diff_bpm0l07Y_mean vs run
χ² / ndf 107.4 / 91
p0 11.91 ± 0.9964
pull
Entries 92
Mean 112.9
Std Dev 34.65

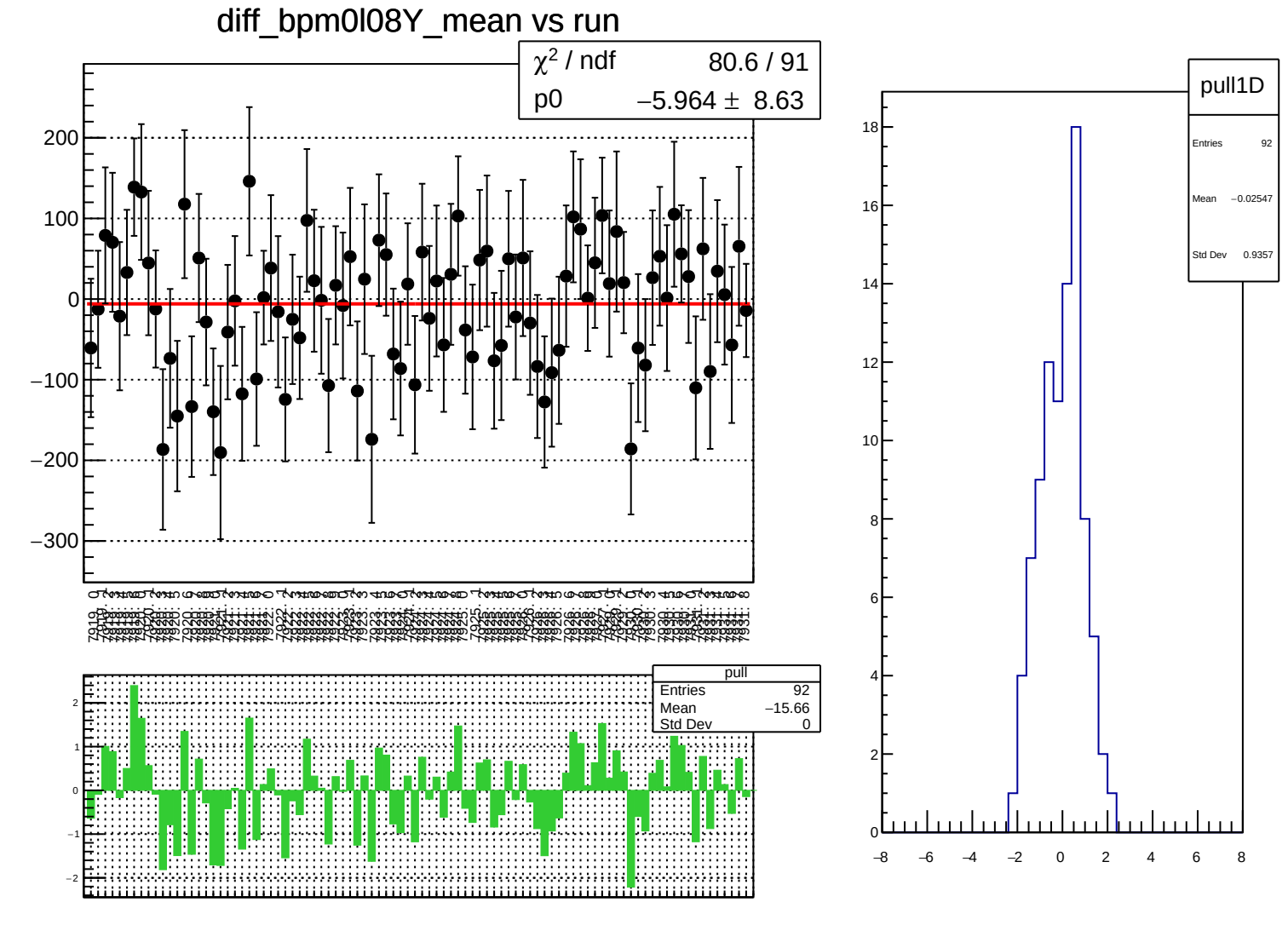

pull1D
Entries 92
Mean 0.01804
Std Dev 1.08

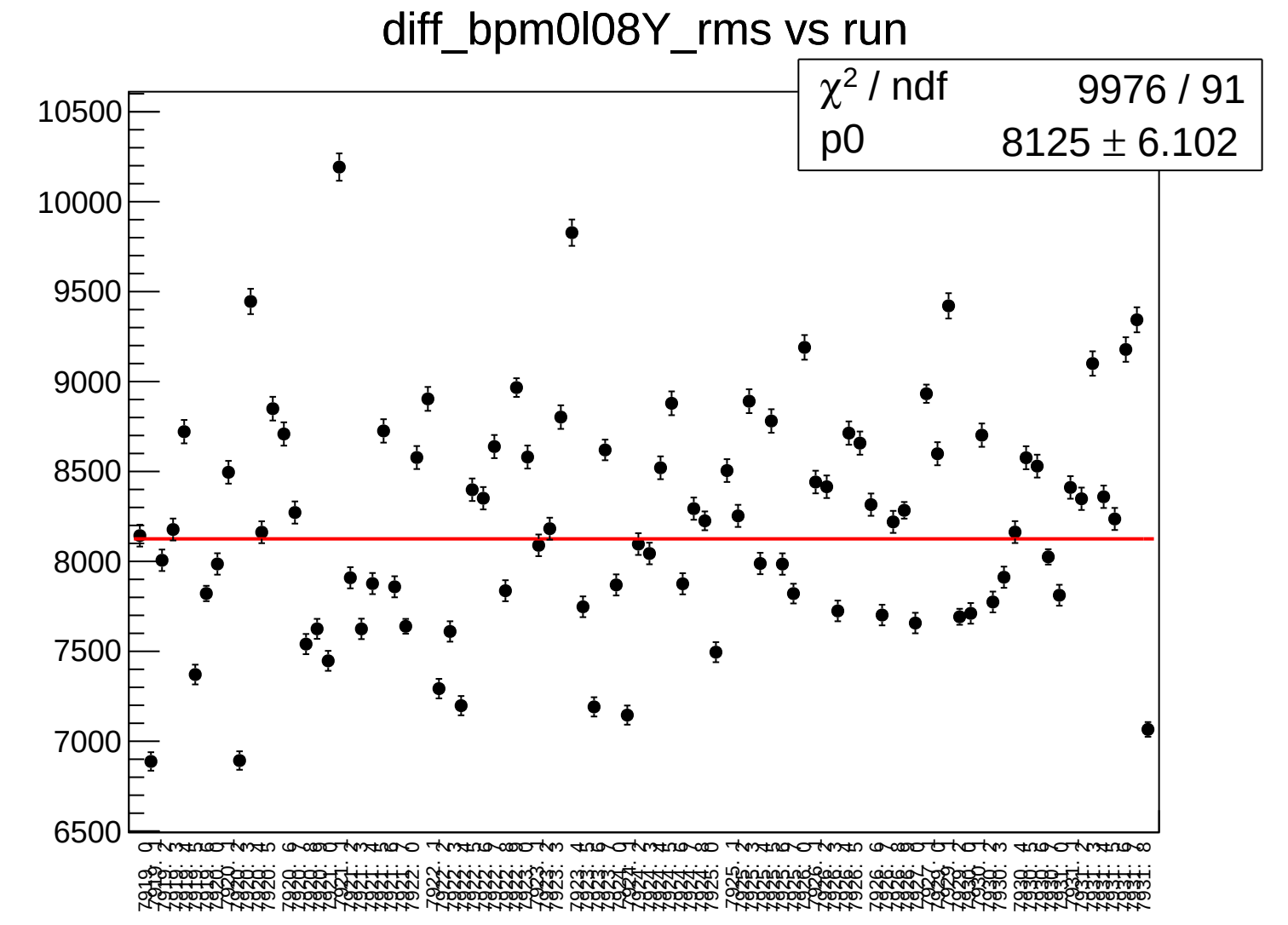

diff_bpm0l07Y_rms vs run
χ² / ndf 579.4 / 91
p0 940.6 ± 0.7046
1000
980
960
940
920
900

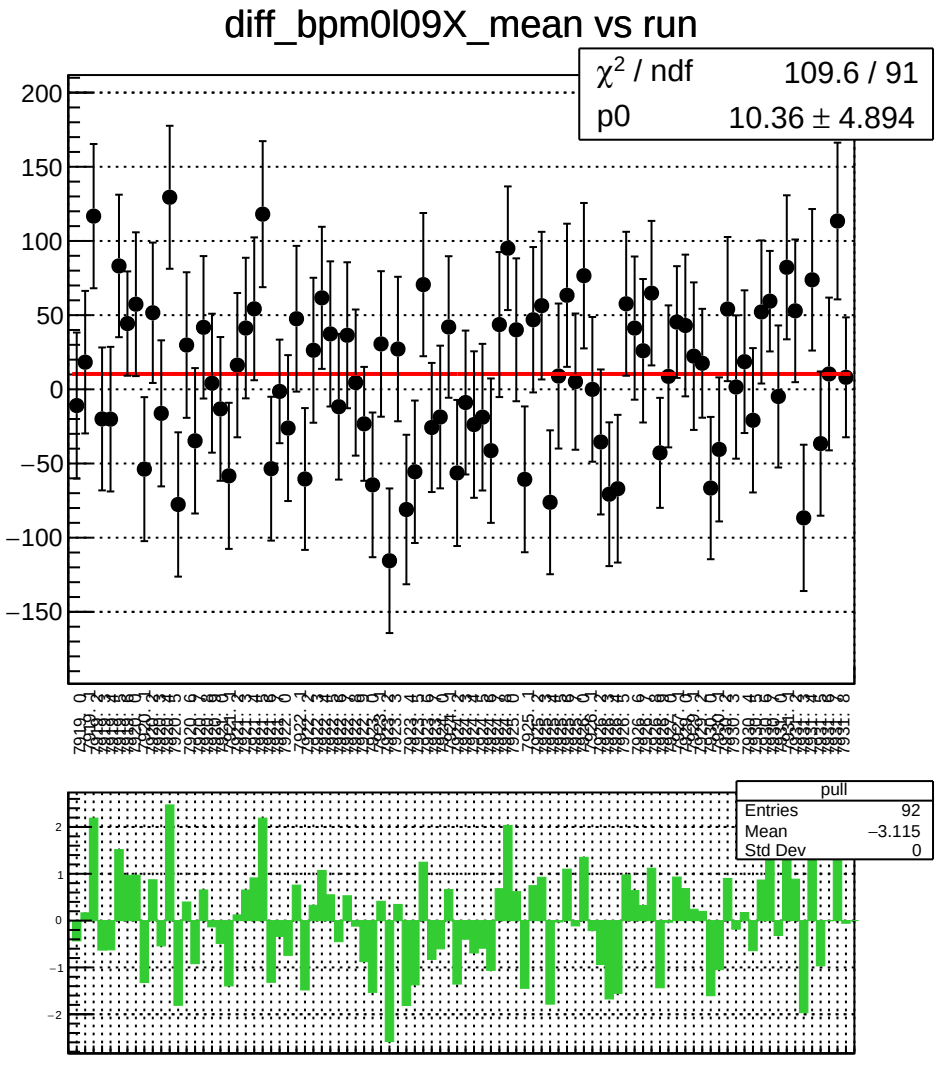

diff_bpm0l08X_mean vs run
χ^2 / ndf 74.41 / 91
p0 7.869 ± 11.28
pull
Entries 92
Mean 45.56
Std Dev 0

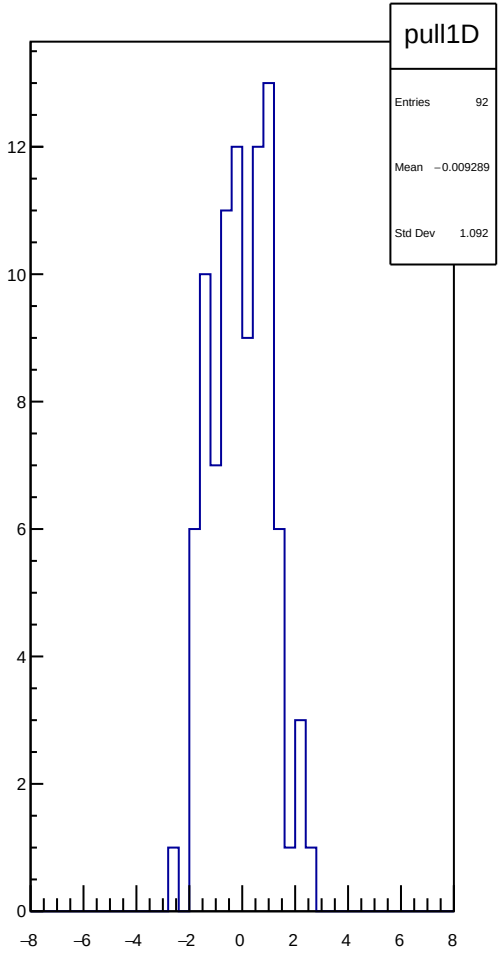

pull1D
Entries 92
Mean 0.01722
Std Dev 0.8992

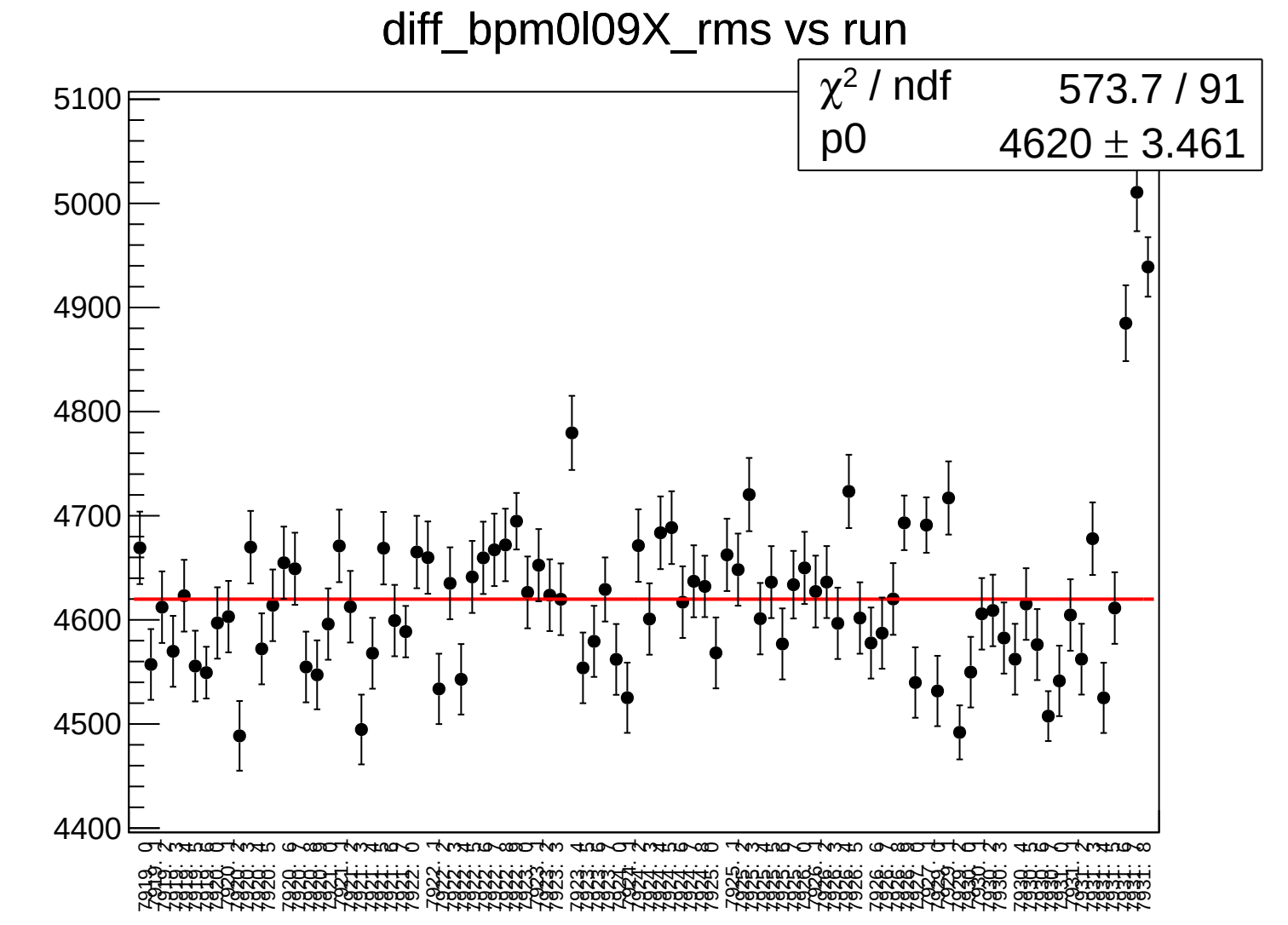

diff_bpm0l08X_rms vs run
χ² / ndf 1.145e+04 / 91
p0 1.061e+04 ± 7.974
14000
13000
12000
11000
10000
9000

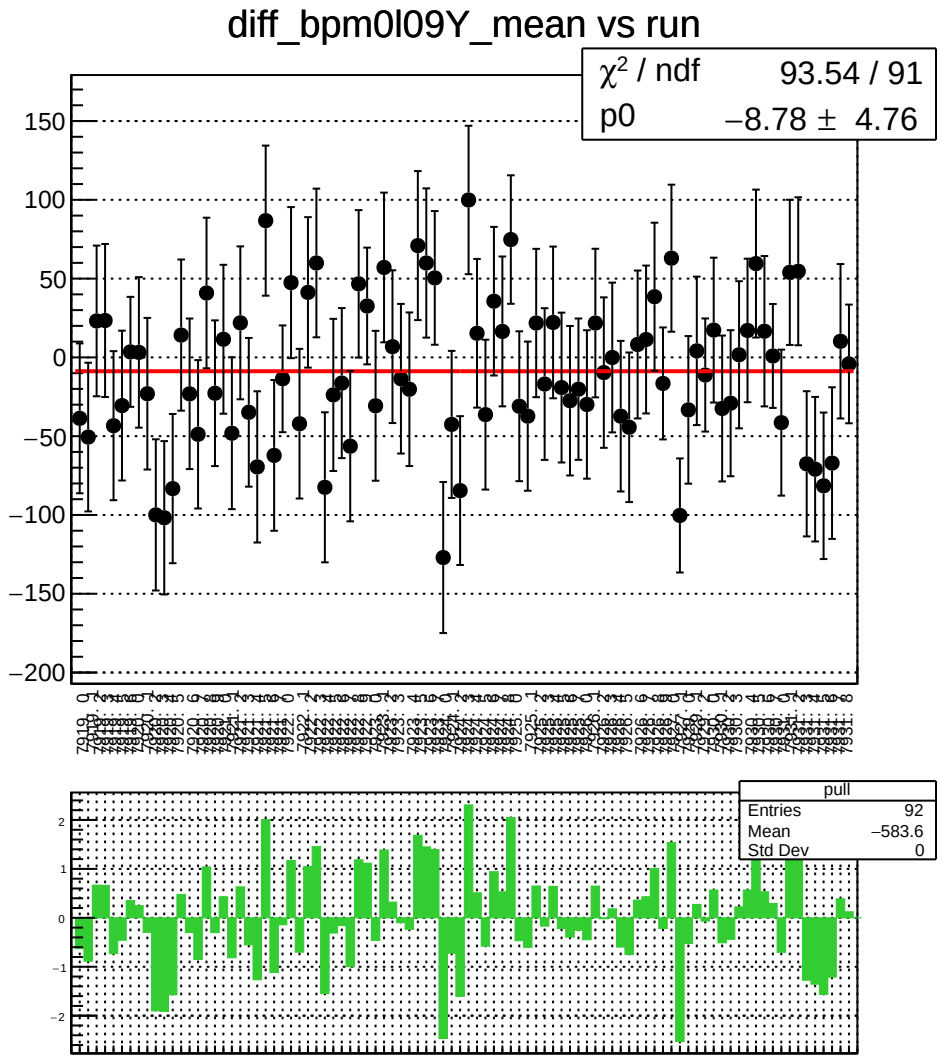

diff_bpm0l08Y_mean vs run
χ² / ndf 80.6 / 91
p0 −5.964 ± 8.63
200
100
0
−100
−200
−300
pull
Entries 92
Mean −15.66
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.02547
Std Dev 0.9357
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

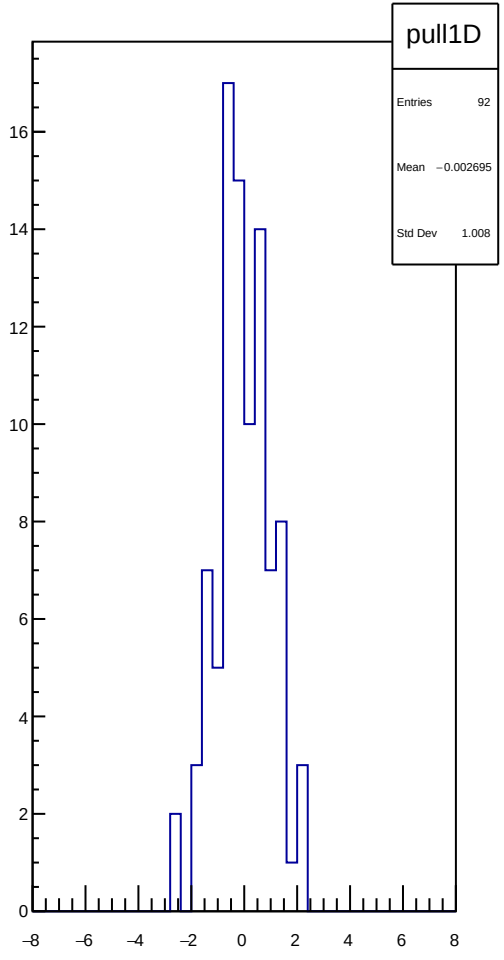

diff_bpm0l08Y_rms vs run
χ² / ndf 9976 / 91
p0 8125 ± 6.102
10500
10000
9500
9000
8500
8000
7500
7000
6500

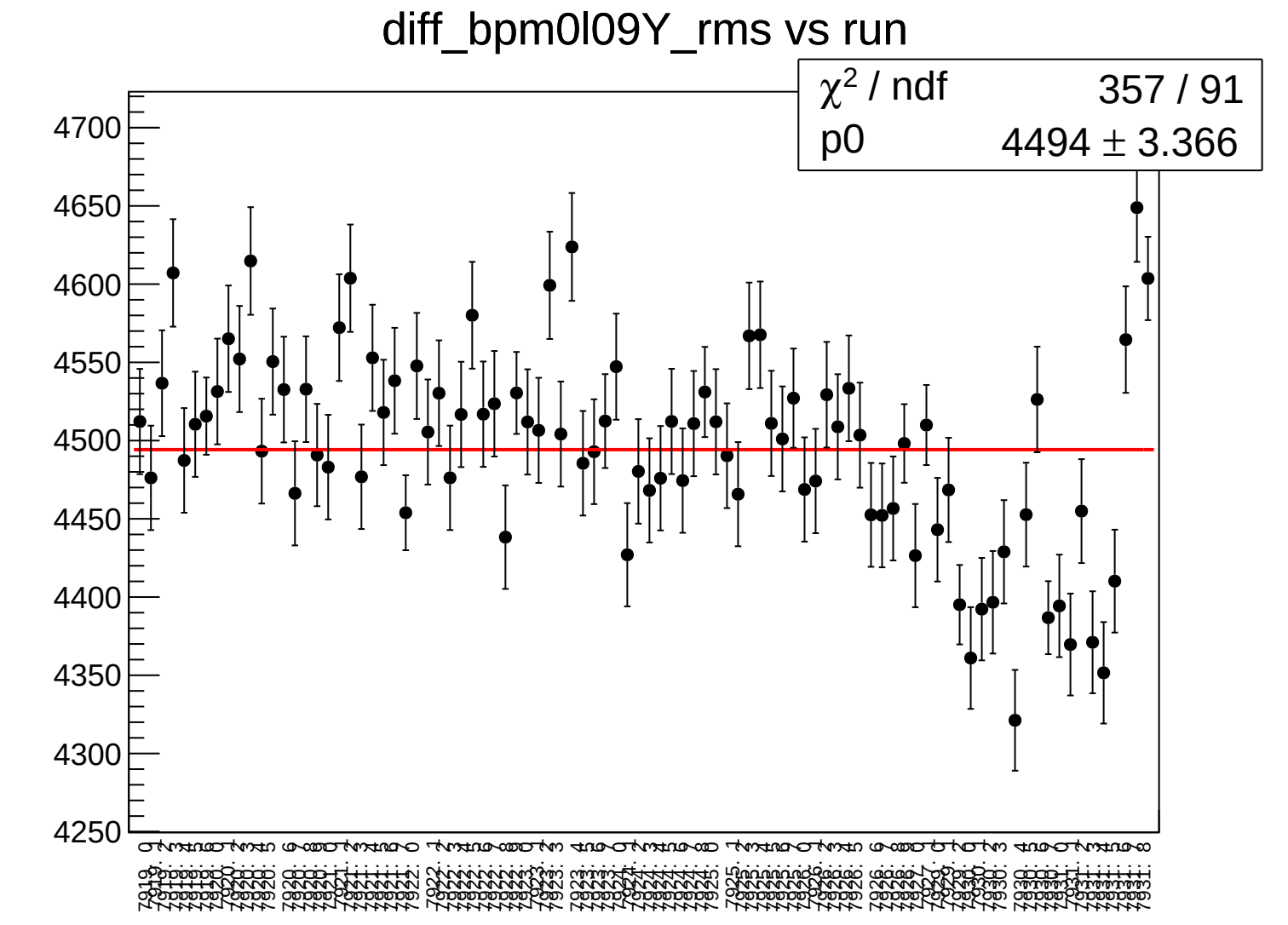

diff_bpm0l09X_mean vs run
χ² / ndf 109.6 / 91
p0 10.36 ± 4.894
pull
Entries 92
Mean −3.115
Std Dev 0

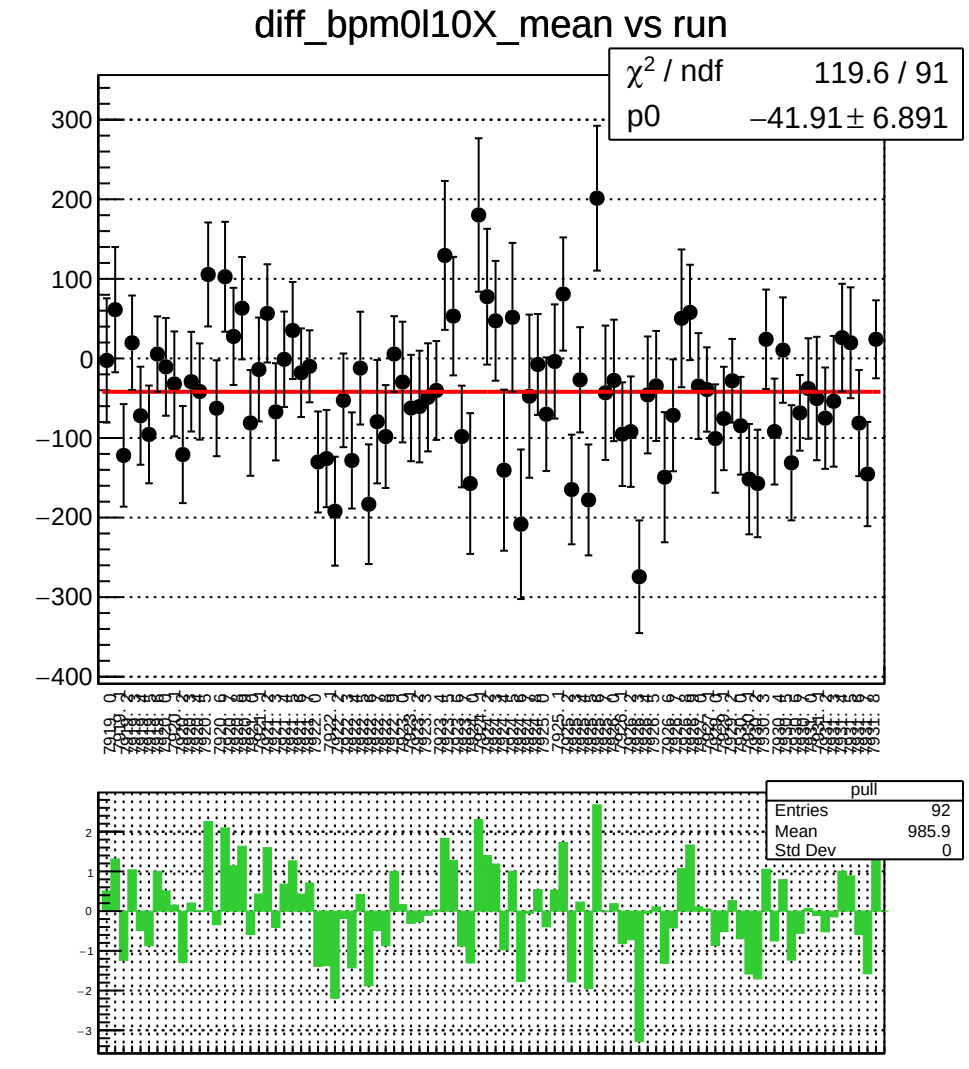

pull1D
Entries 92
Mean −0.009289
Std Dev 1.092

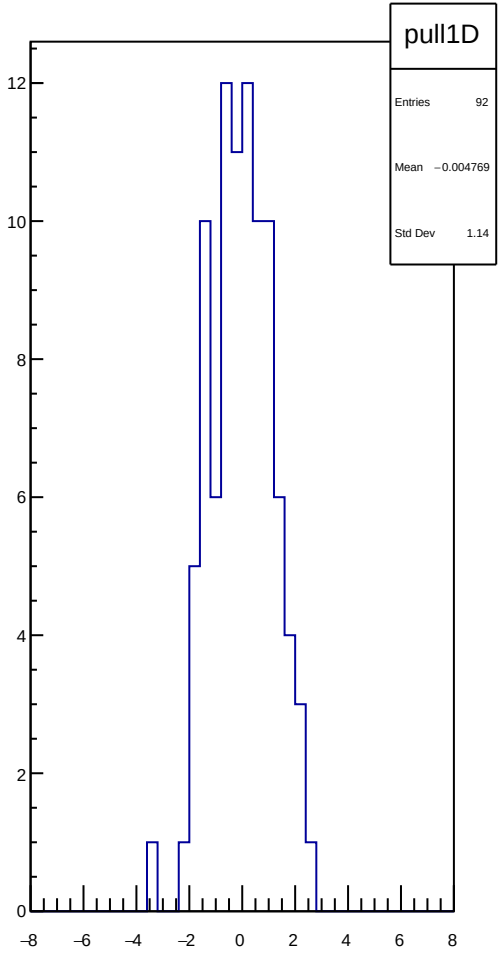

diff_bpm0l09X_rms vs run
χ² / ndf 573.7 / 91
p0 4620 ± 3.461
5100
5000
4900
4800
4700
4600
4500
4400

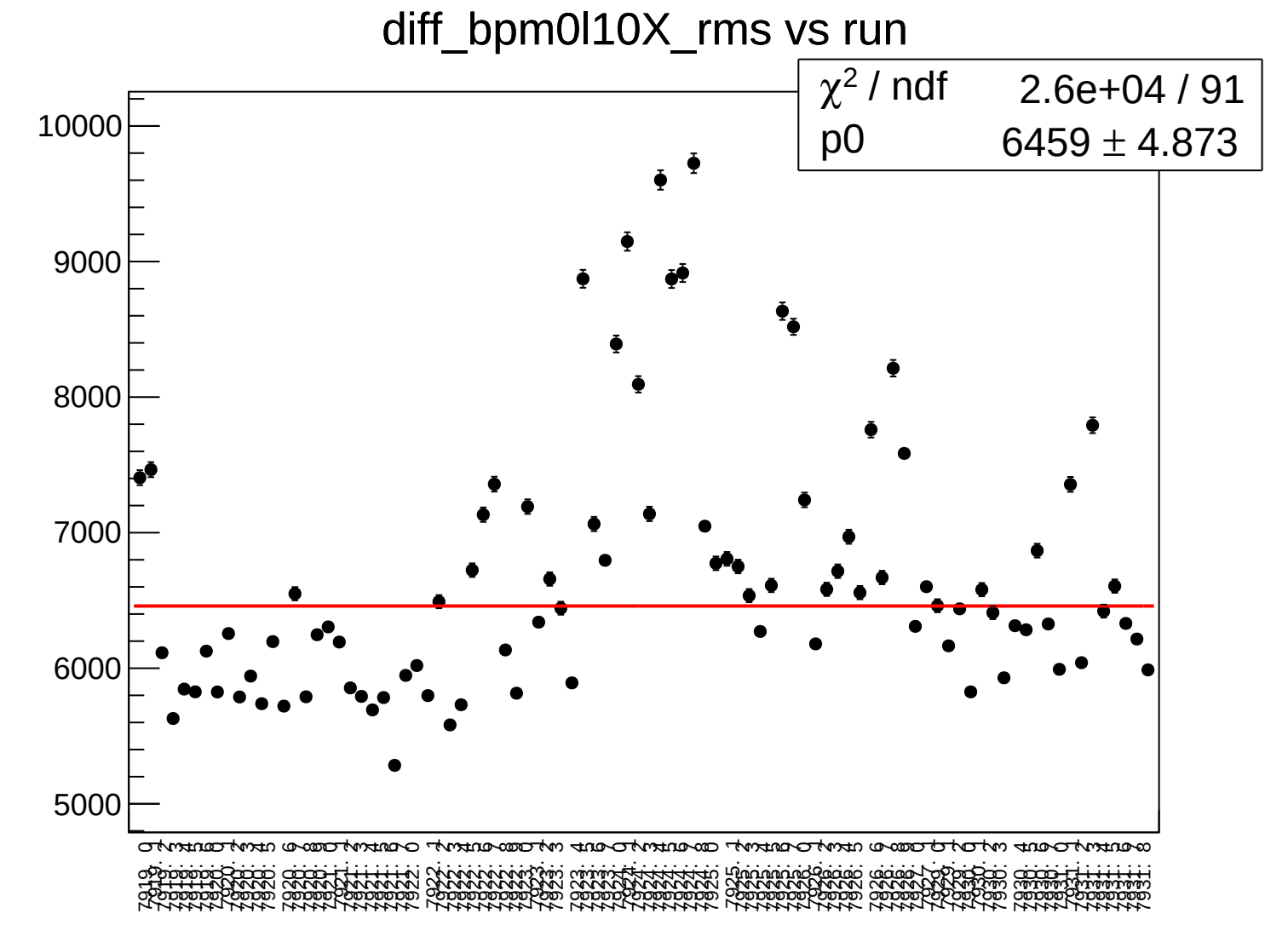

diff_bpm0l09Y_mean vs run
χ² / ndf 93.54 / 91
p0 −8.78 ± 4.76
pull
Entries 92
Mean −583.6
Std Dev 0

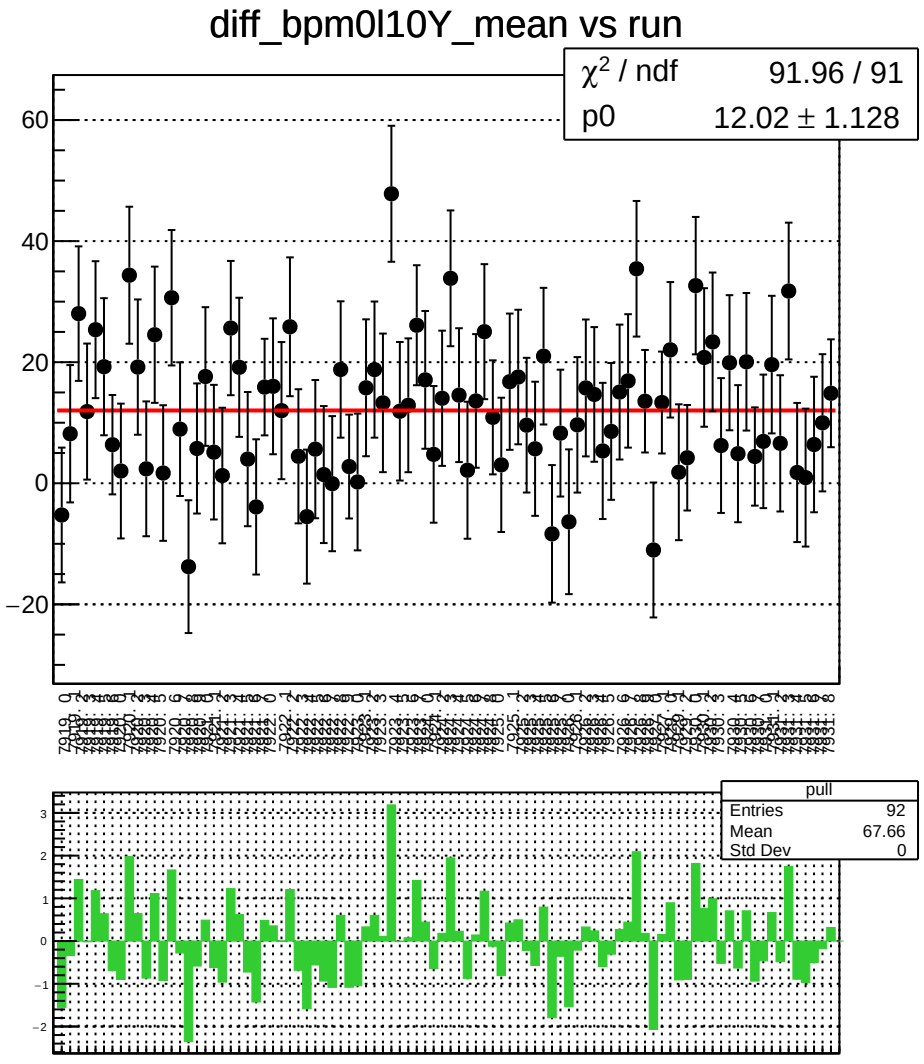

pull1D
Entries 92
Mean −0.002695
Std Dev 1.008

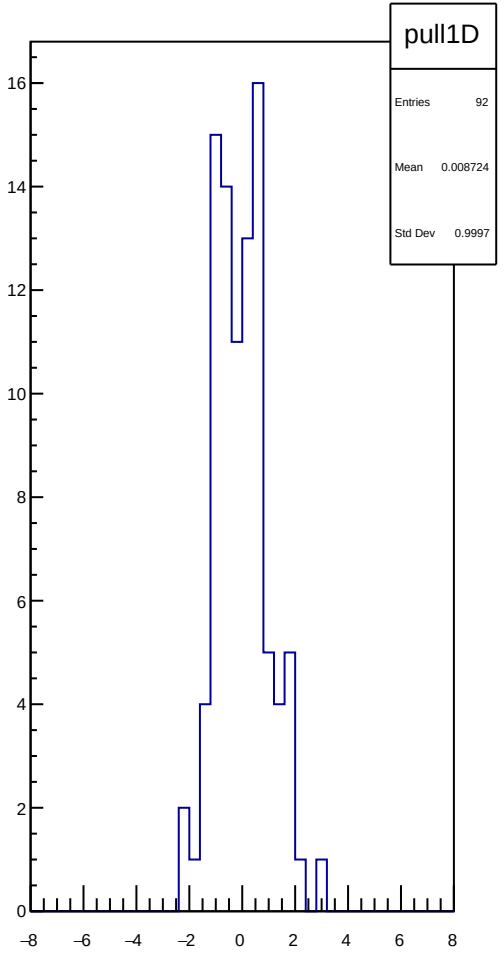

diff_bpm0l09Y_rms vs run
χ² / ndf 357 / 91
p0 4494 ± 3.366
4700
4650
4600
4550
4500
4450
4400
4350
4300
4250

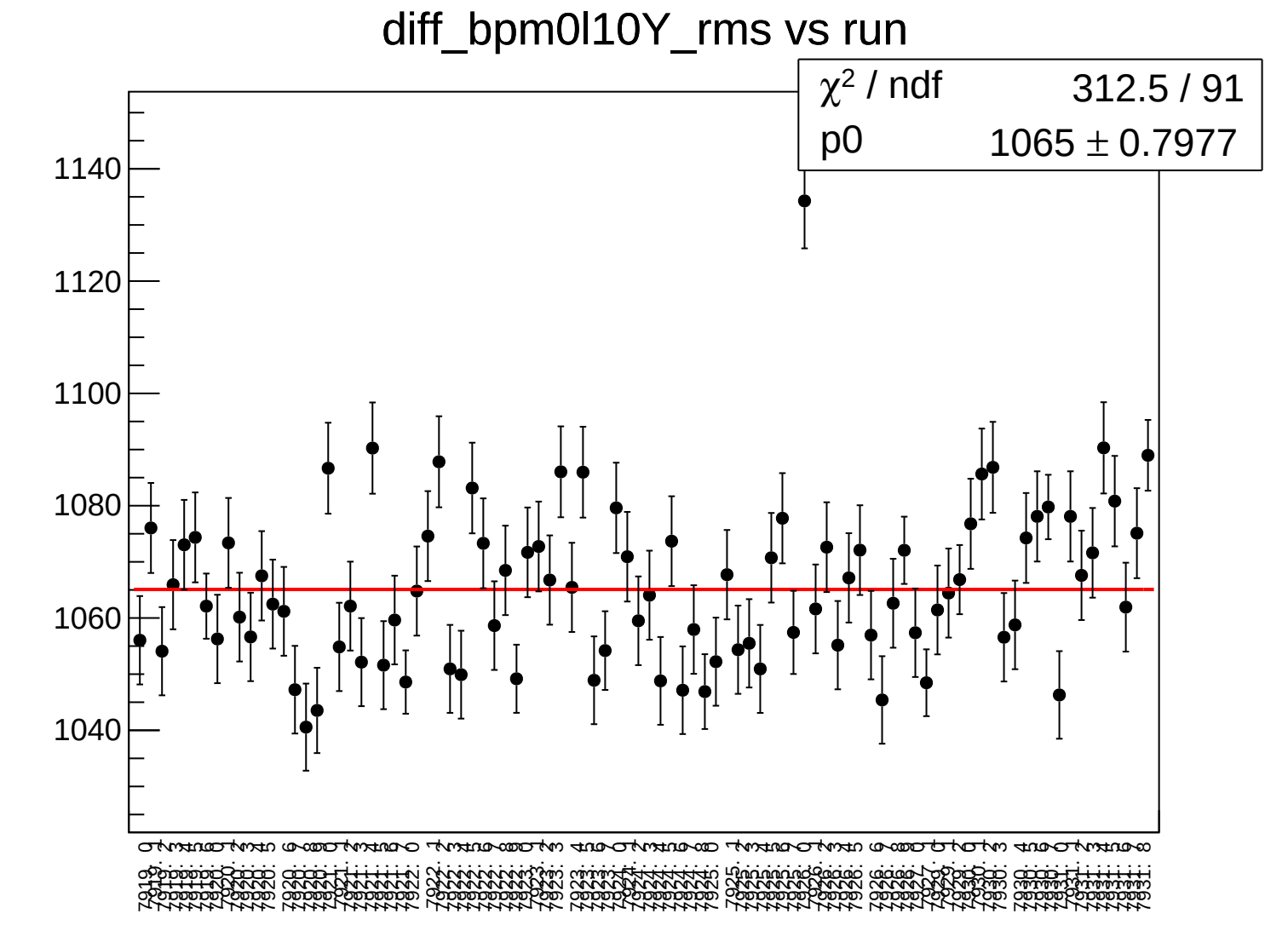

diff_bpm0l10X_mean vs run
χ² / ndf 119.6 / 91
p0 −41.91 ± 6.891
pull
Entries 92
Mean 985.9
Std Dev 0

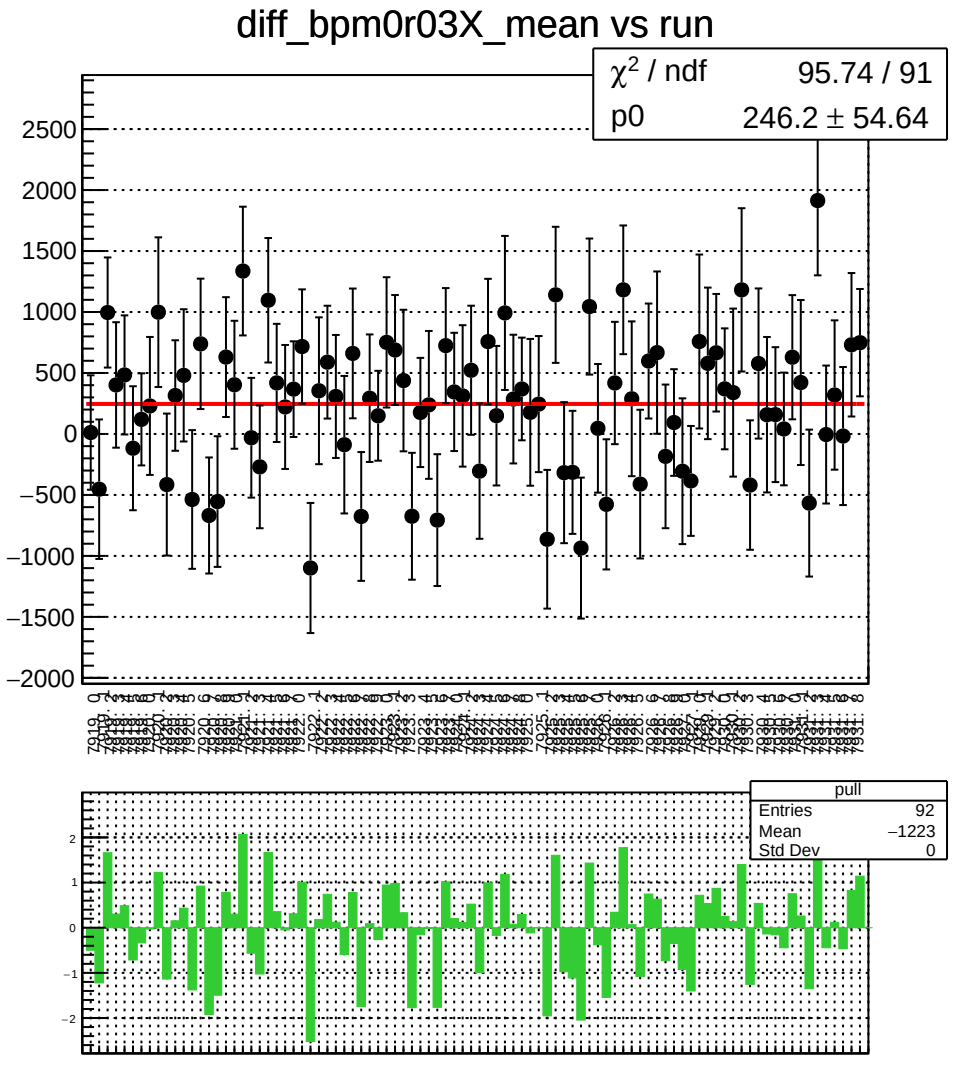

pull1D
Entries 92
Mean −0.004769
Std Dev 1.14

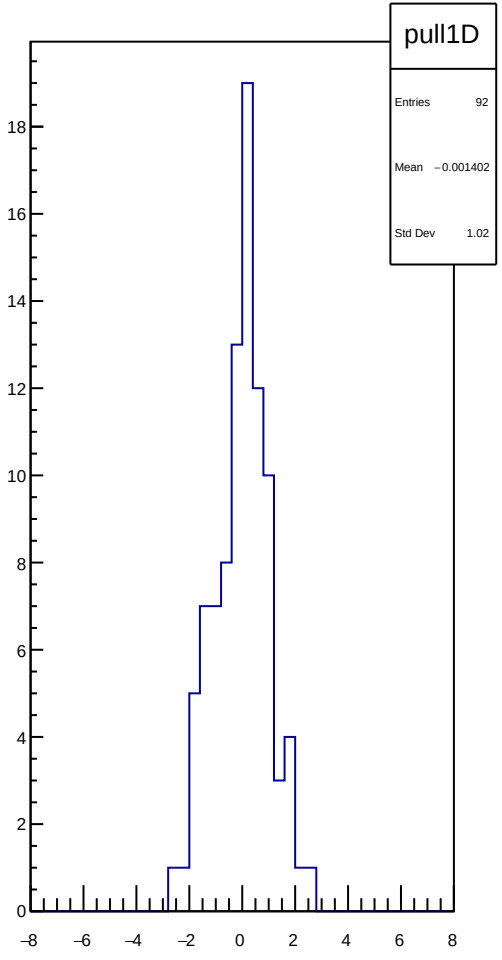

diff_bpm0l10X_rms vs run
χ² / ndf 2.6e+04 / 91
p0 6459 ± 4.873
10000
9000
8000
7000
6000
5000

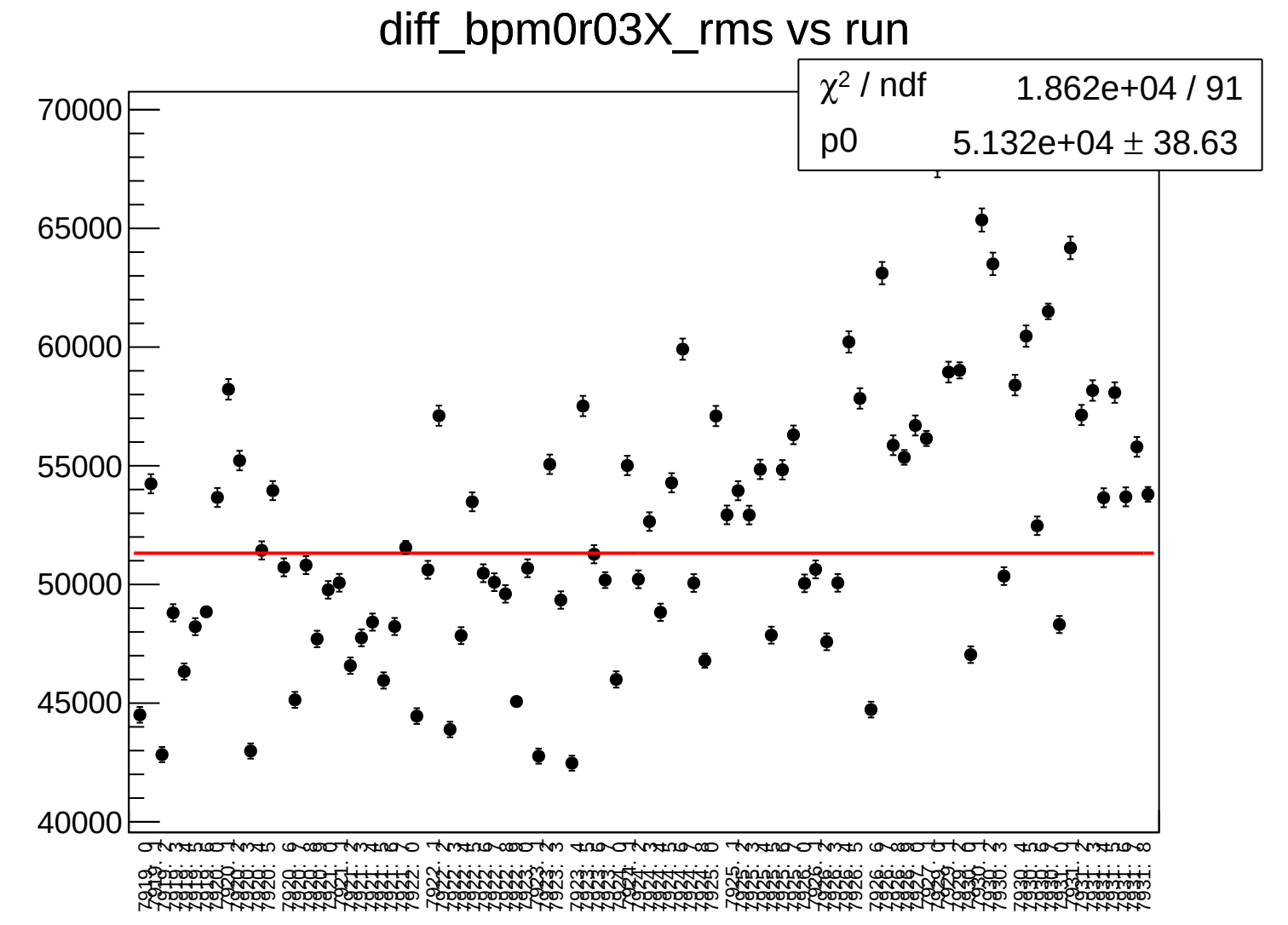

diff_bpm0l10Y_mean vs run
χ^2 / ndf 91.96 / 91
p0 12.02 ± 1.128
pull
Entries 92
Mean 67.66
Std Dev 0

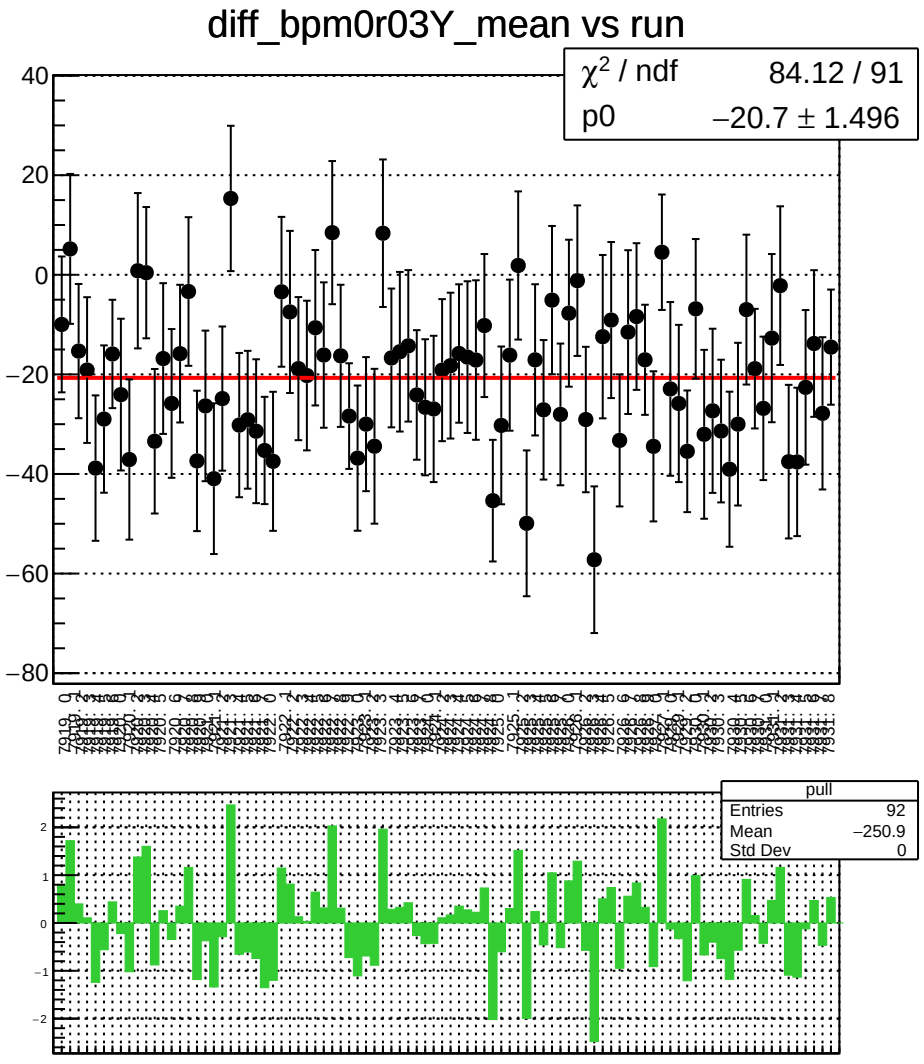

pull1D
Entries 92
Mean 0.008724
Std Dev 0.9997

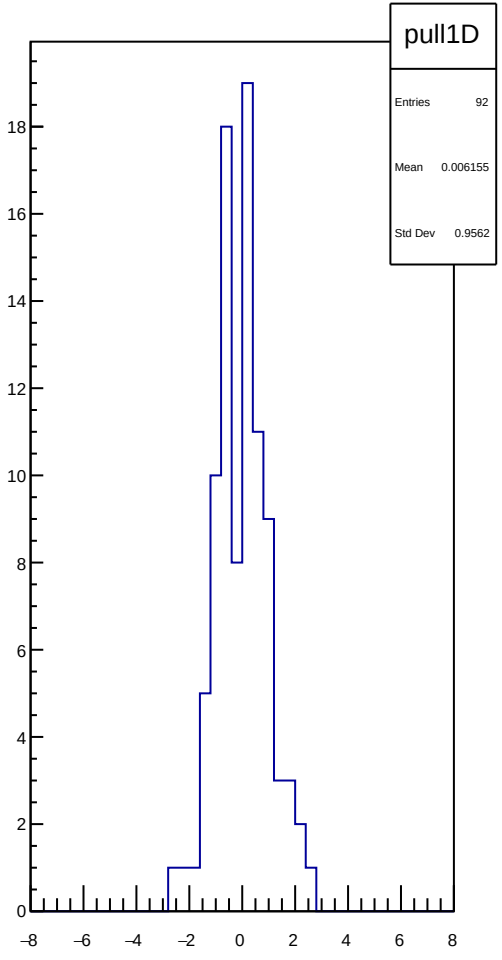

diff_bpm0l10Y_rms vs run
χ² / ndf 312.5 / 91
p0 1065 ± 0.7977
1140
1120
1100
1080
1060
1040

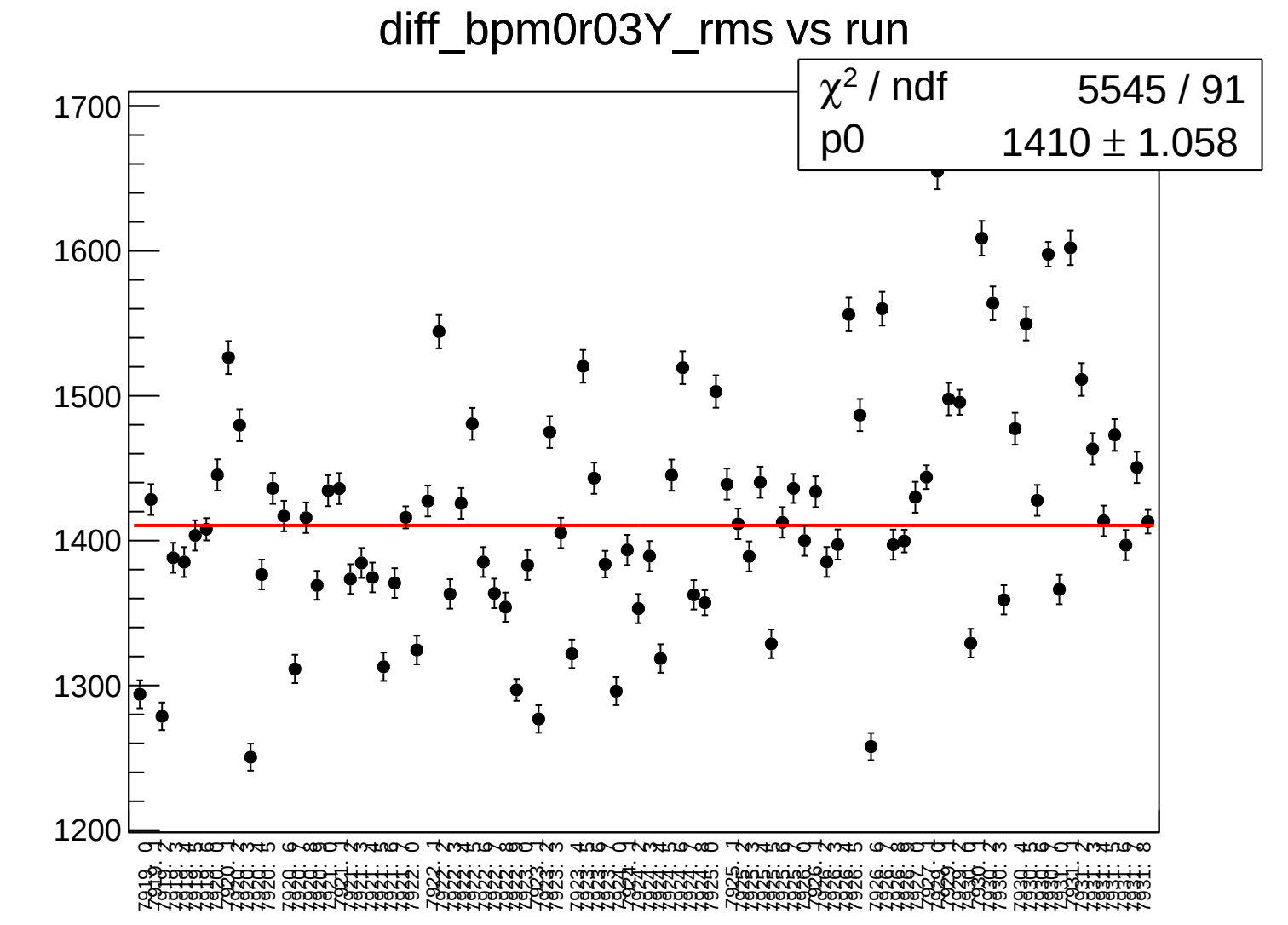

diff_bpm0r03X_mean vs run
χ^2 / ndf 95.74 / 91
p0 246.2 ± 54.64
pull
Entries 92
Mean −1223
Std Dev 0

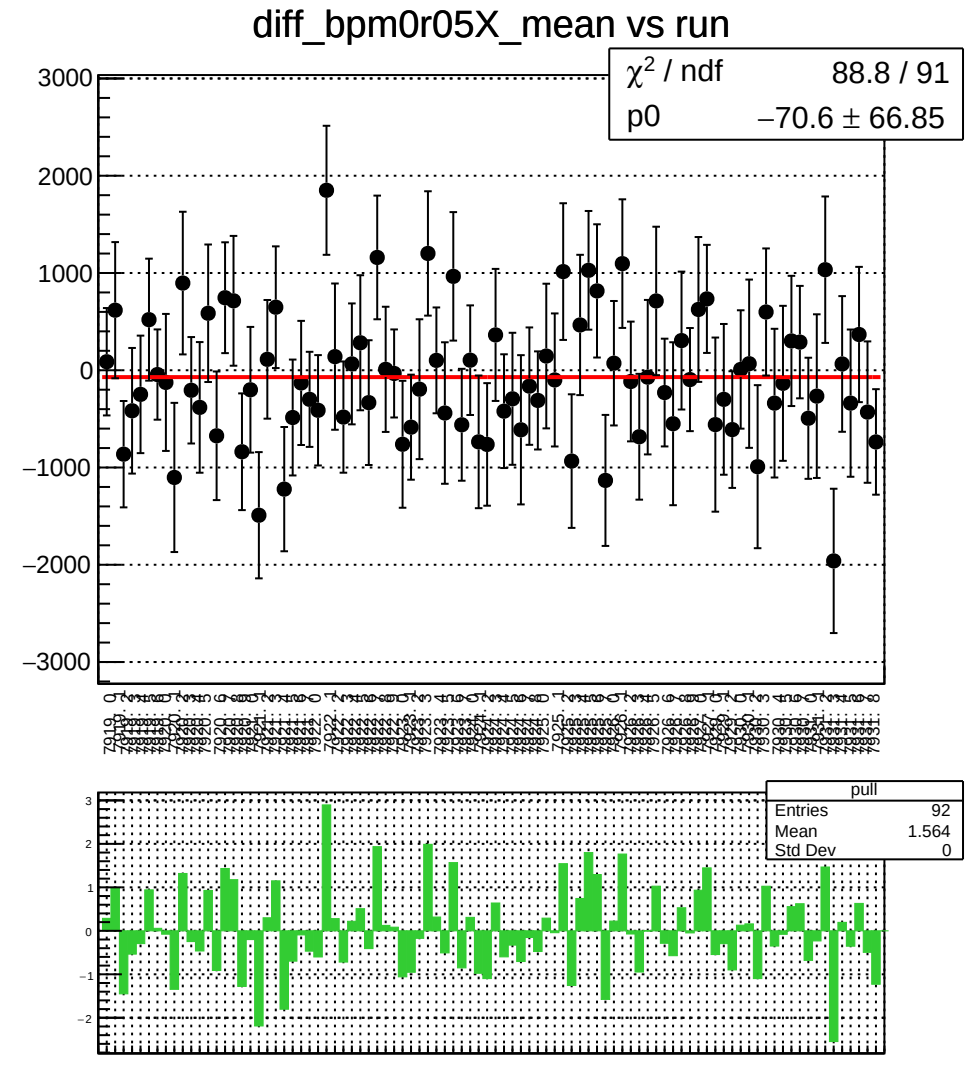

pull1D
Entries 92
Mean −0.001402
Std Dev 1.02

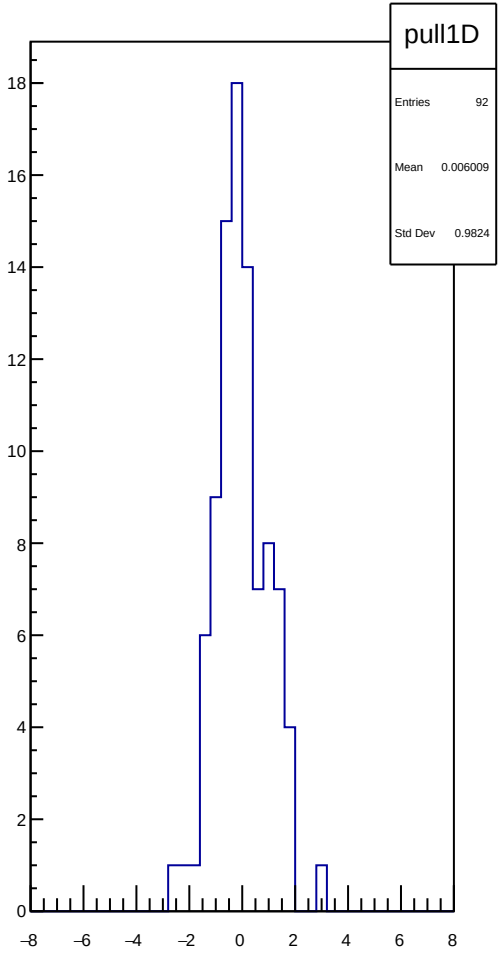

diff_bpm0r03X_rms vs run
χ^2 / ndf 1.862e+04 / 91
p0 5.132e+04 ± 38.63
70000
65000
60000
55000
50000
45000
40000

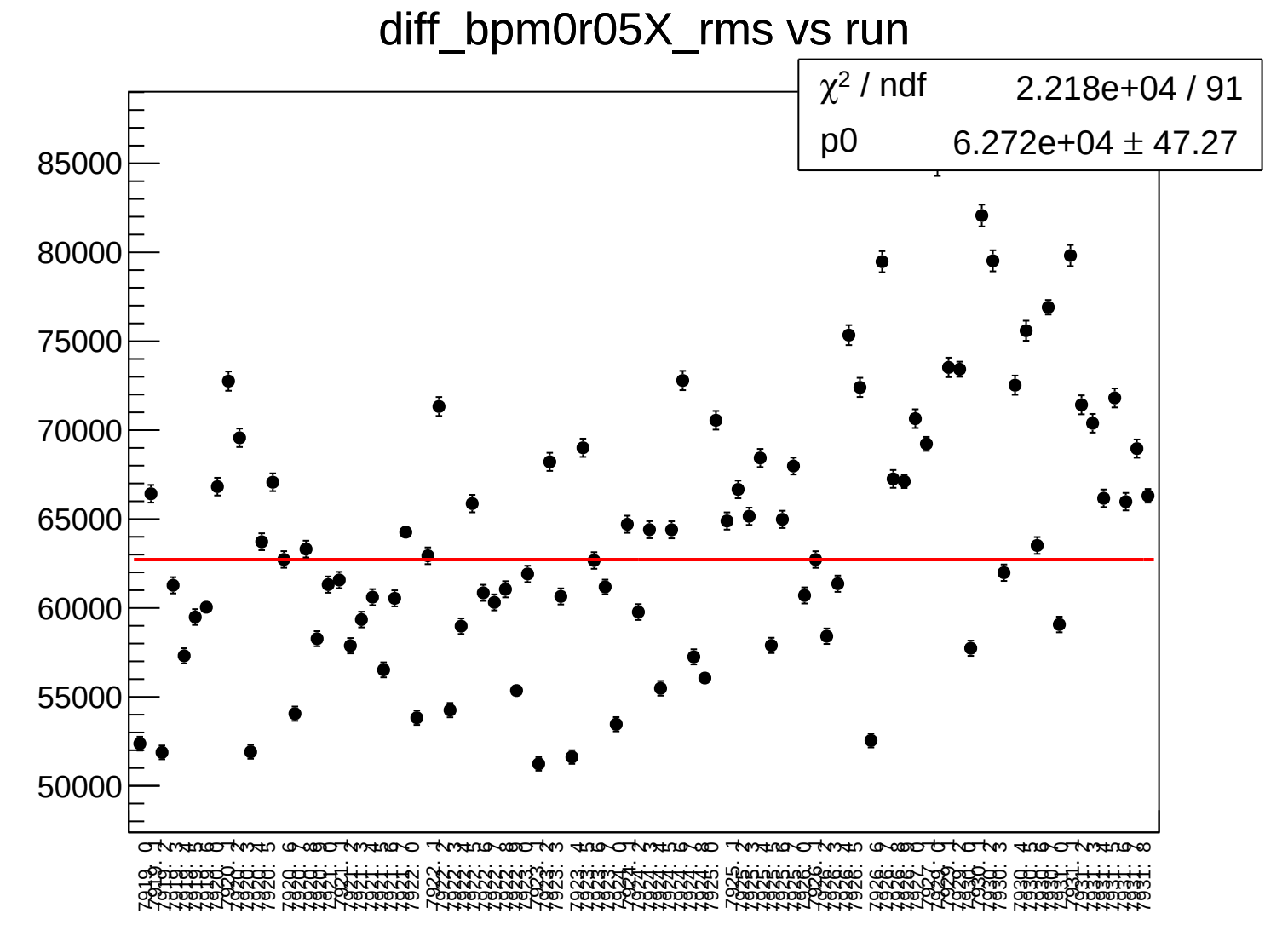

diff_bpm0r03Y_mean vs run
χ² / ndf 84.12 / 91
p0 −20.7 ± 1.496
pull
Entries 92
Mean −250.9
Std Dev 0

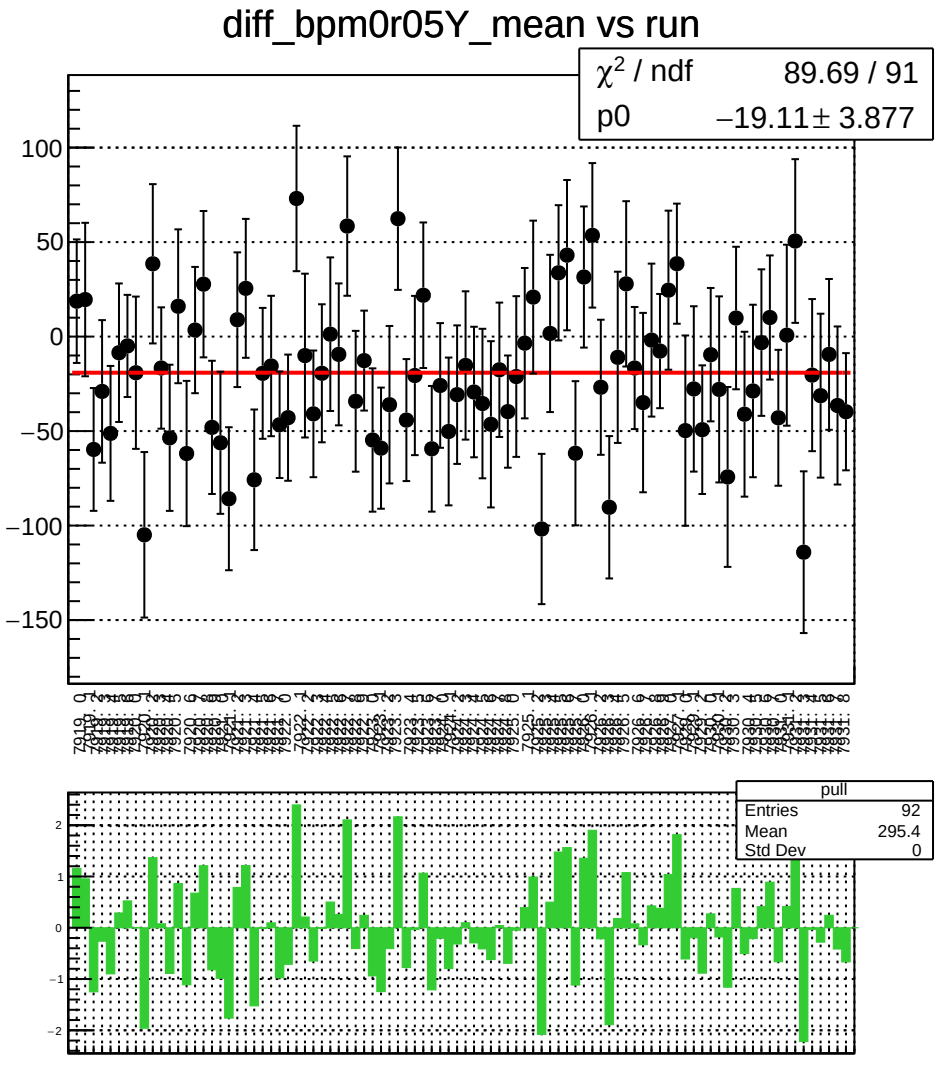

pull1D
Entries 92
Mean 0.006155
Std Dev 0.9562

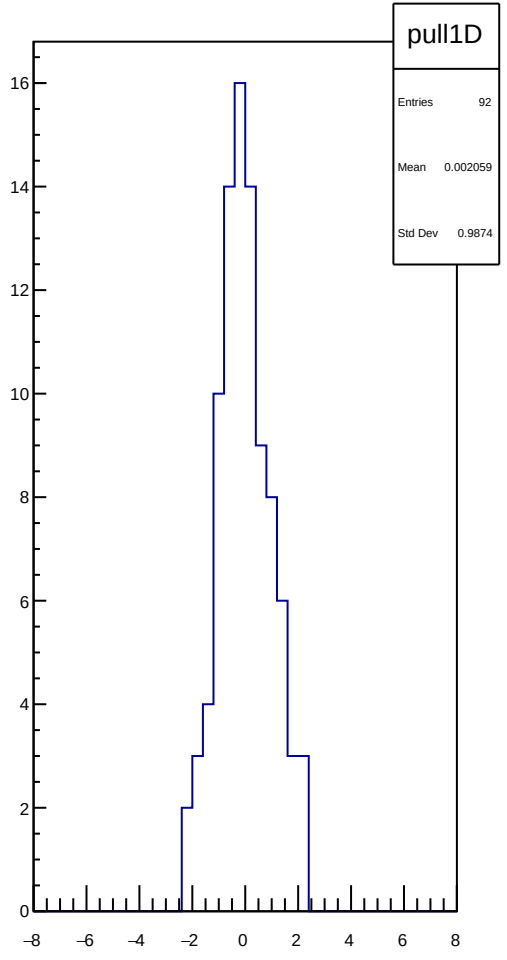

diff_bpm0r03Y_rms vs run
χ² / ndf 5545 / 91
p0 1410 ± 1.058
1700
1600
1500
1400
1300
1200

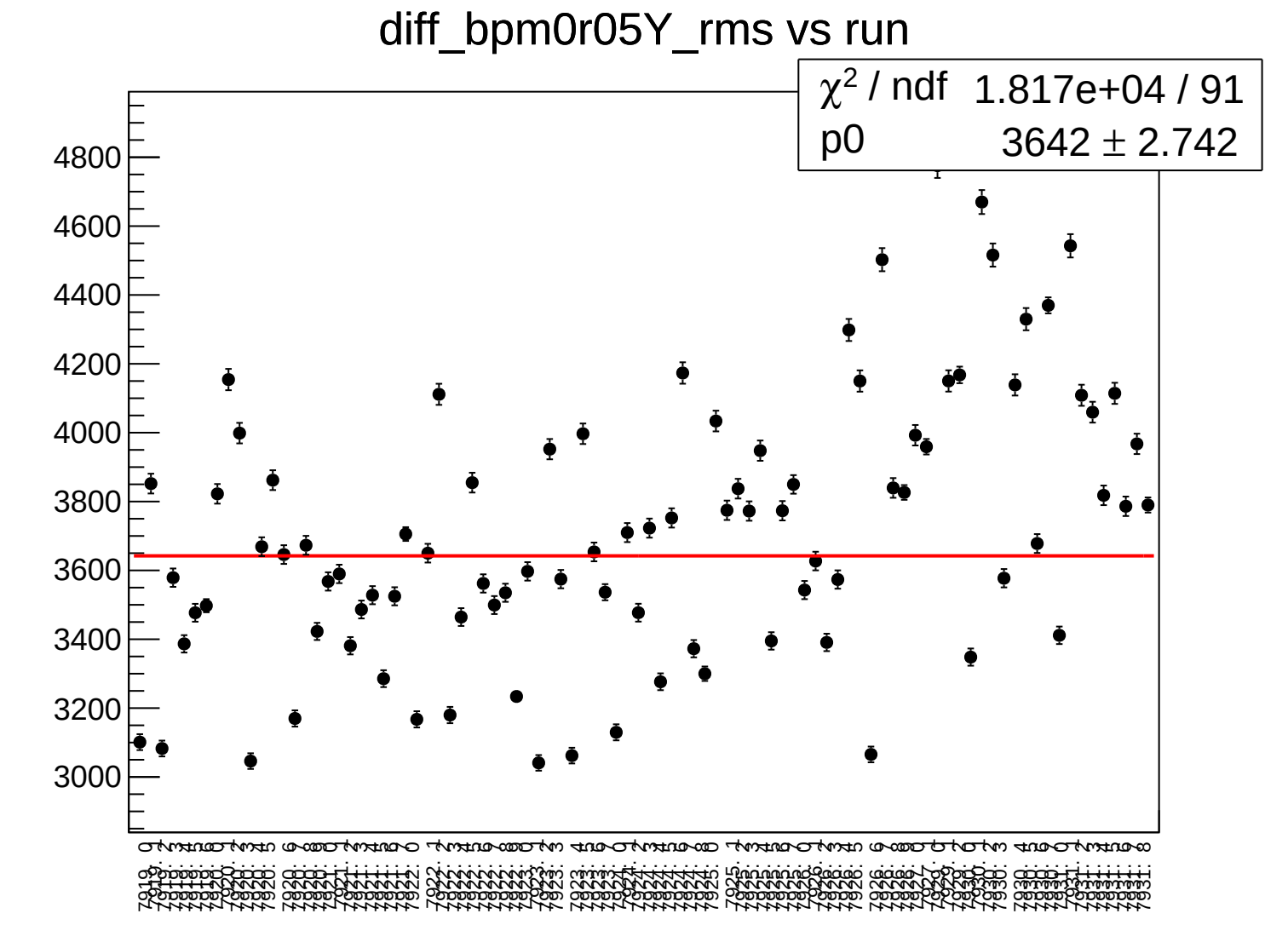

diff_bpm0r05X_mean vs run
χ^2 / ndf 88.8 / 91
p0 −70.6 ± 66.85
pull
Entries 92
Mean 1.564
Std Dev 0

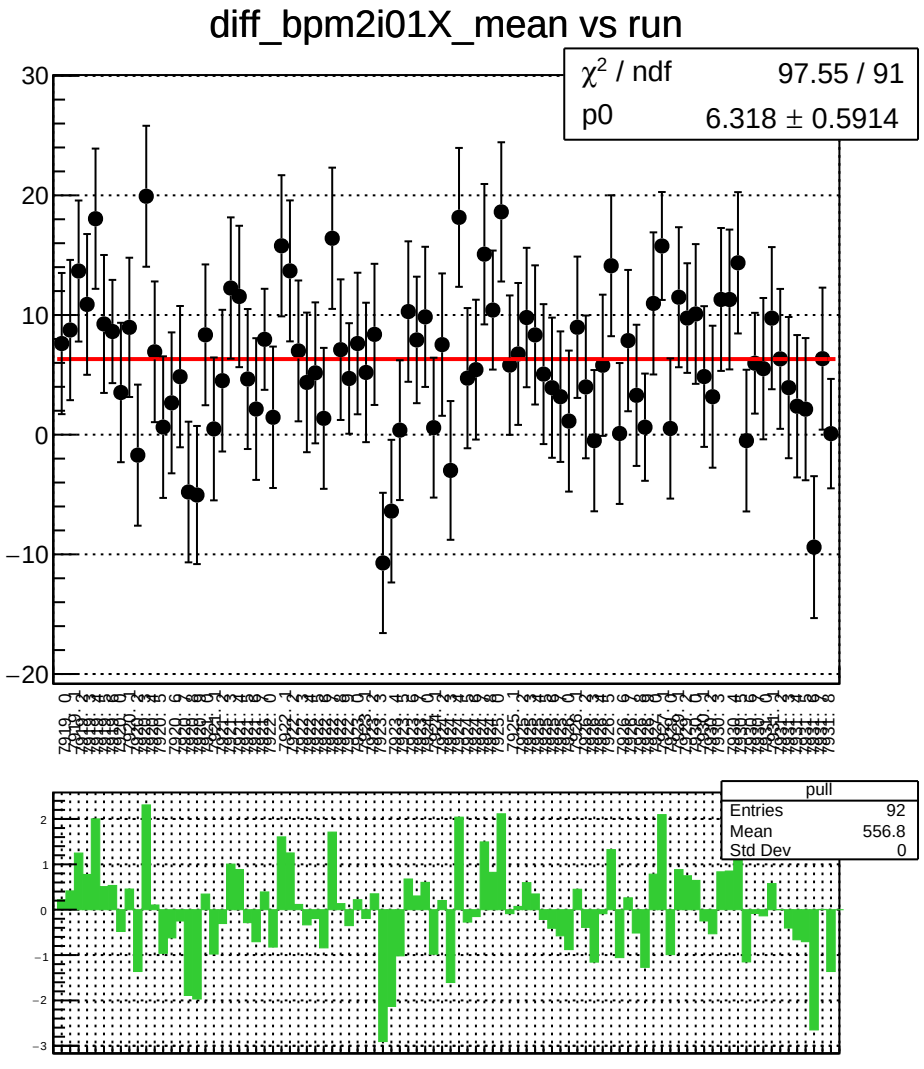

pull1D
Entries 92
Mean 0.006009
Std Dev 0.9824

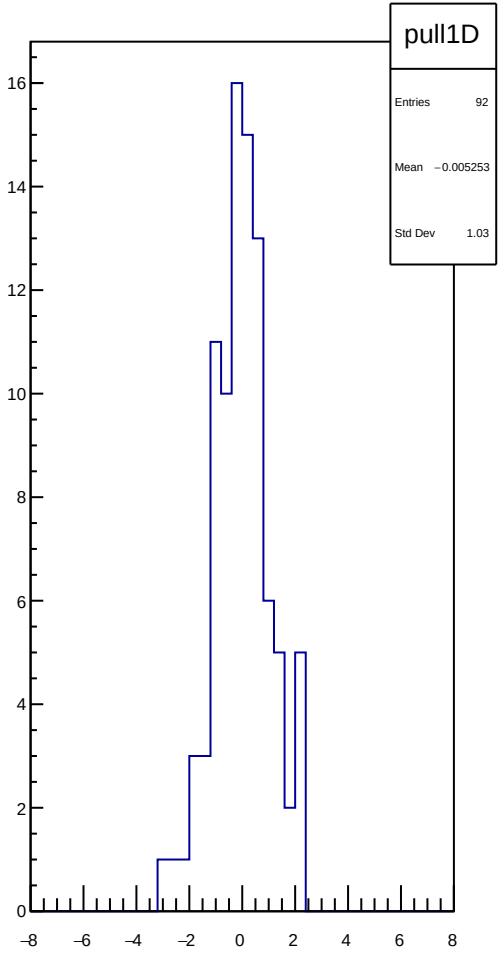

diff_bpm0r05X_rms vs run
χ² / ndf 2.218e+04 / 91
p0 6.272e+04 ± 47.27
85000
80000
75000
70000
65000
60000
55000
50000

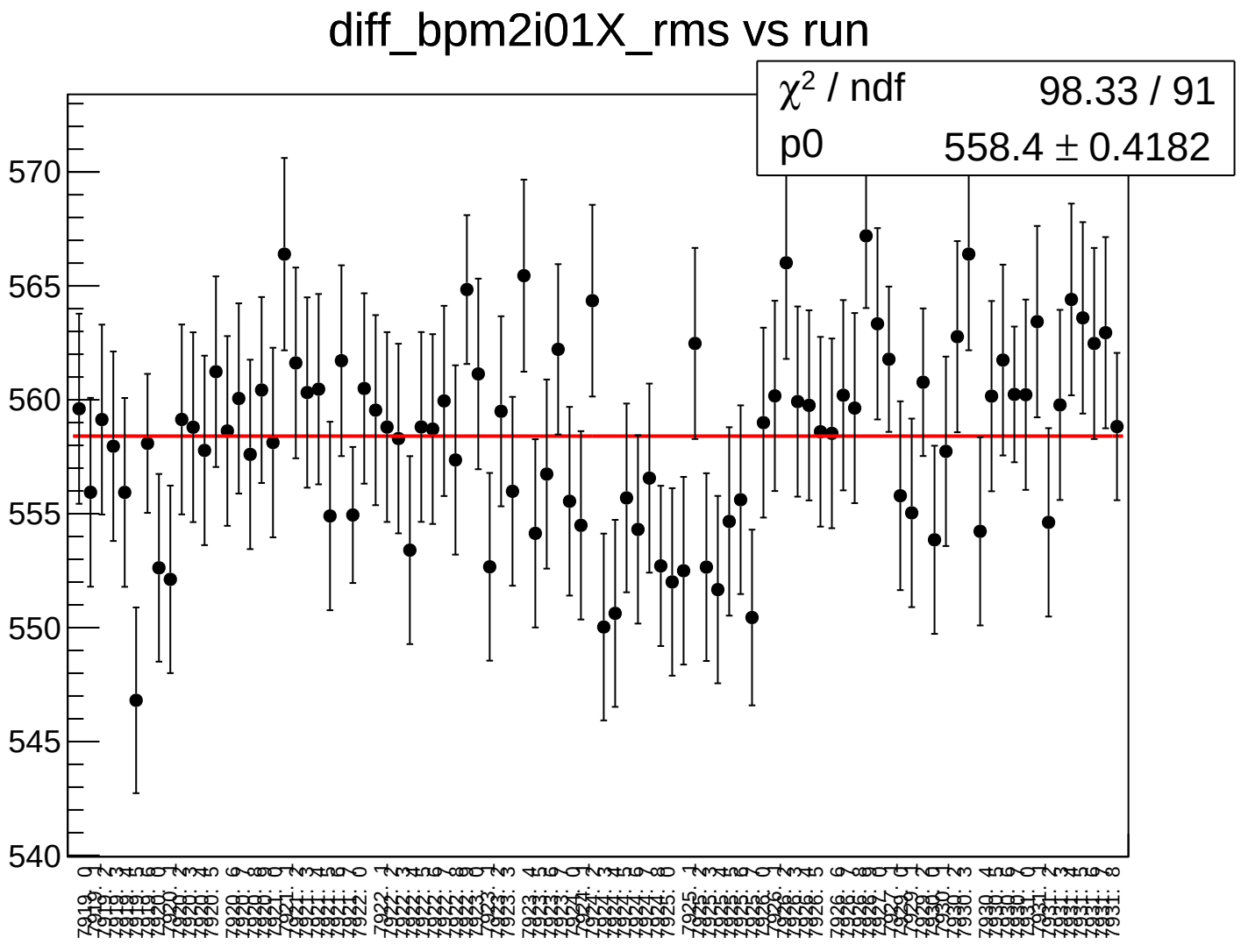

diff_bpm0r05Y_mean vs run
χ² / ndf 89.69 / 91
p0 −19.11 ± 3.877
100
50
0
−50
−100
−150
pull
Entries 92
Mean 295.4
Std Dev 0
2
1
0
−1
−2

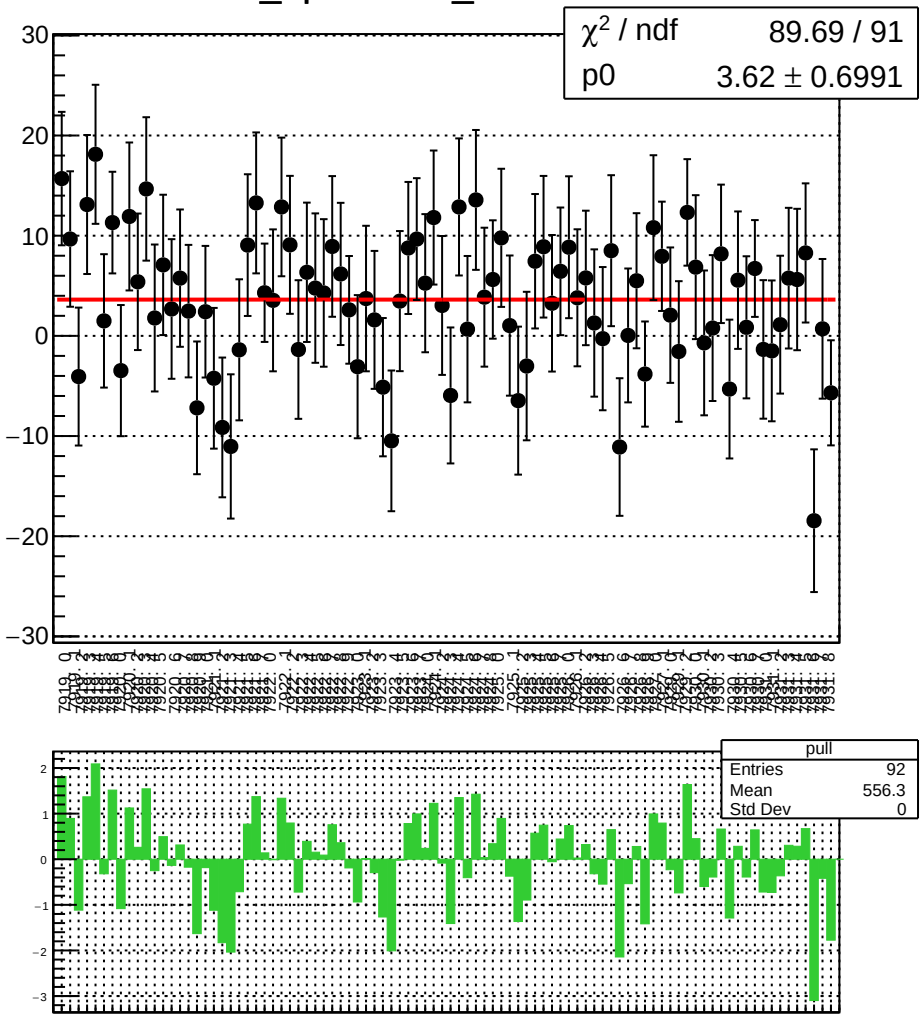

pull1D
Entries 92
Mean 0.002059
Std Dev 0.9874
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

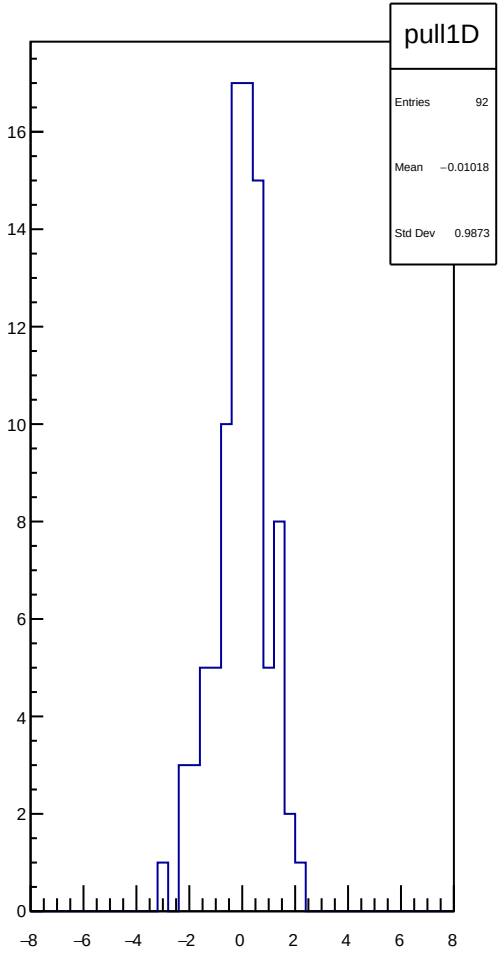

diff_bpm0r05Y_rms vs run
χ² / ndf 1.817e+04 / 91
p0 3642 ± 2.742
4800
4600
4400
4200
4000
3800
3600
3400
3200
3000

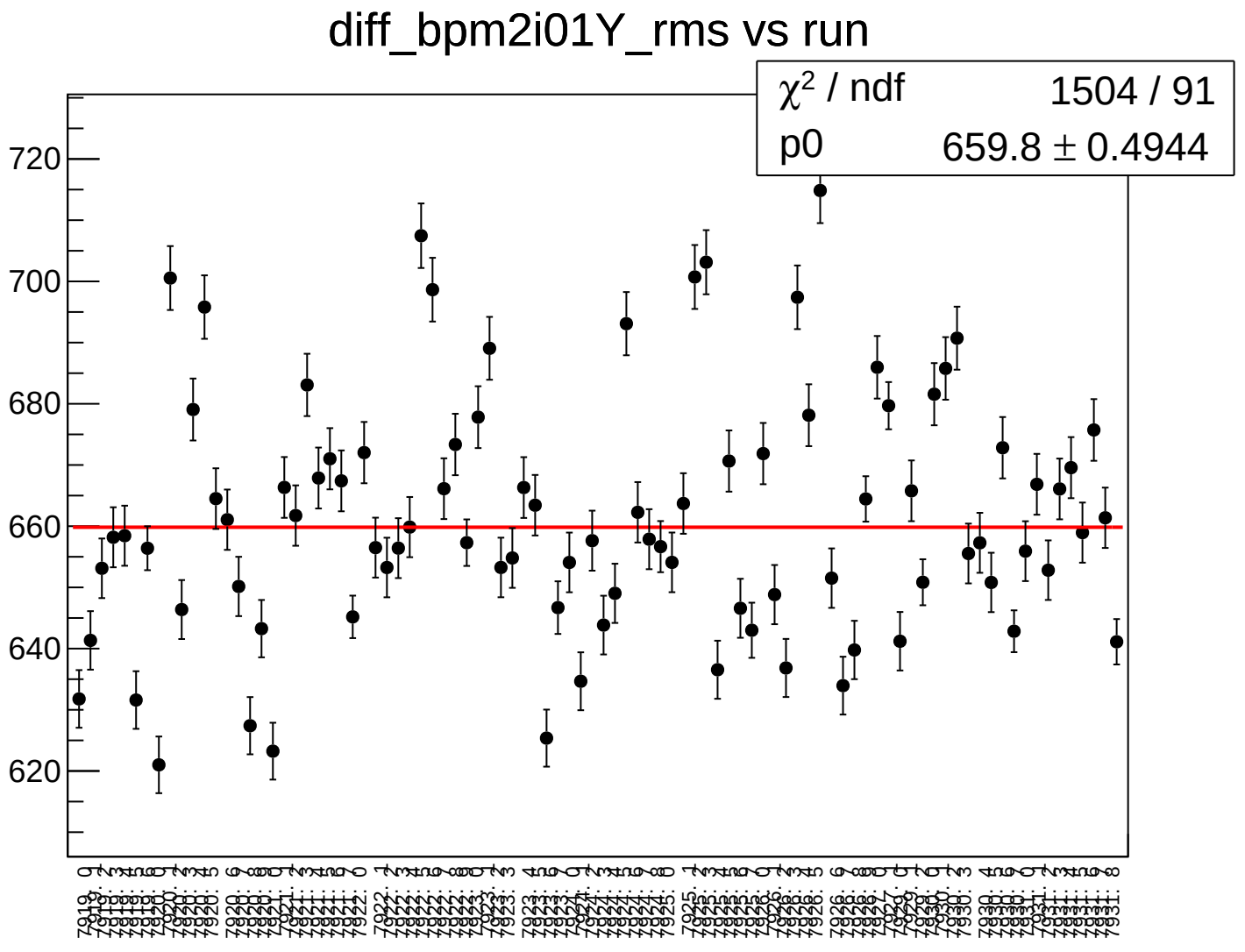

diff_bpm2i01X_mean vs run
χ² / ndf 97.55 / 91
p0 6.318 ± 0.5914
pull
Entries 92
Mean 556.8
Std Dev 0

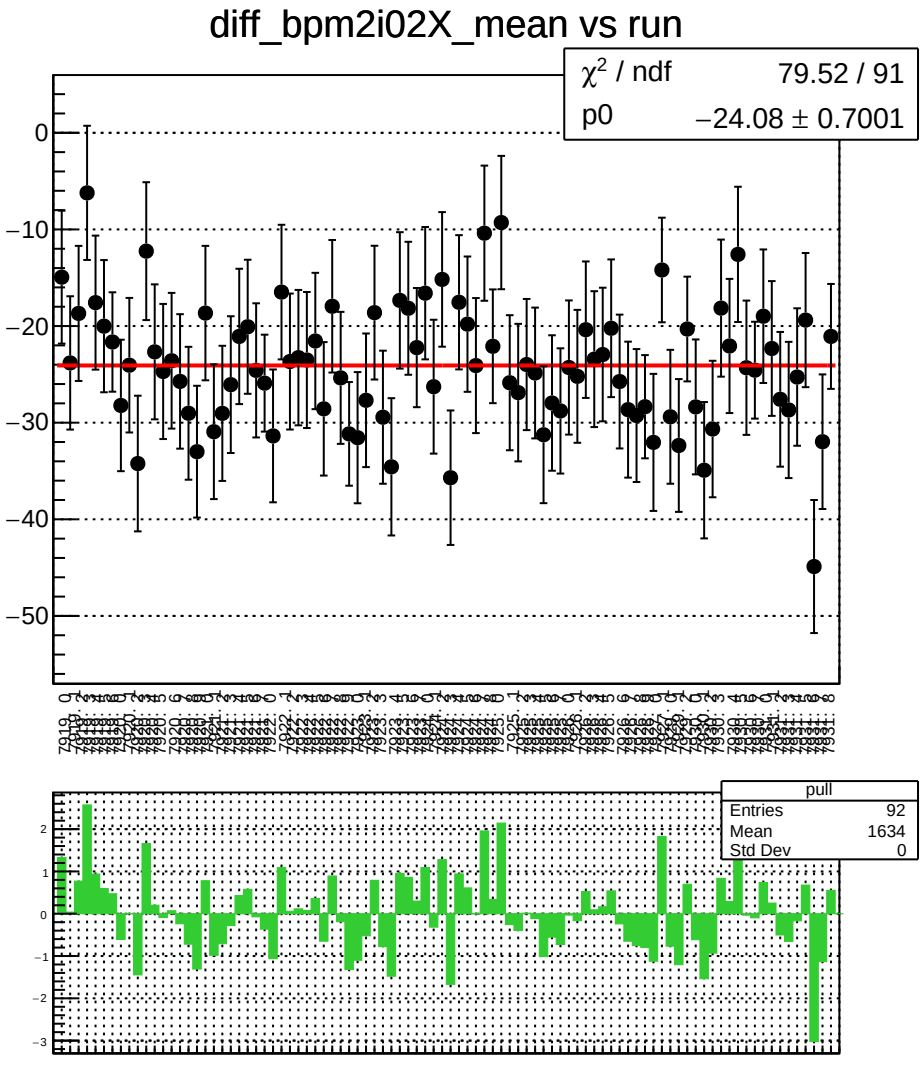

pull1D
Entries 92
Mean −0.005253
Std Dev 1.03

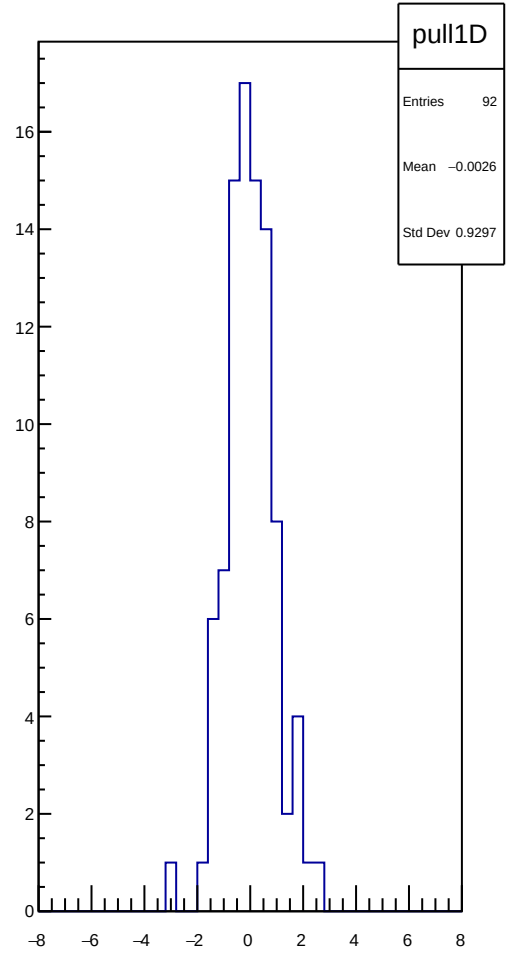

diff_bpm2i01X_rms vs run
χ² / ndf 98.33 / 91
p0 558.4 ± 0.4182
570
565
560
555
550
545
540

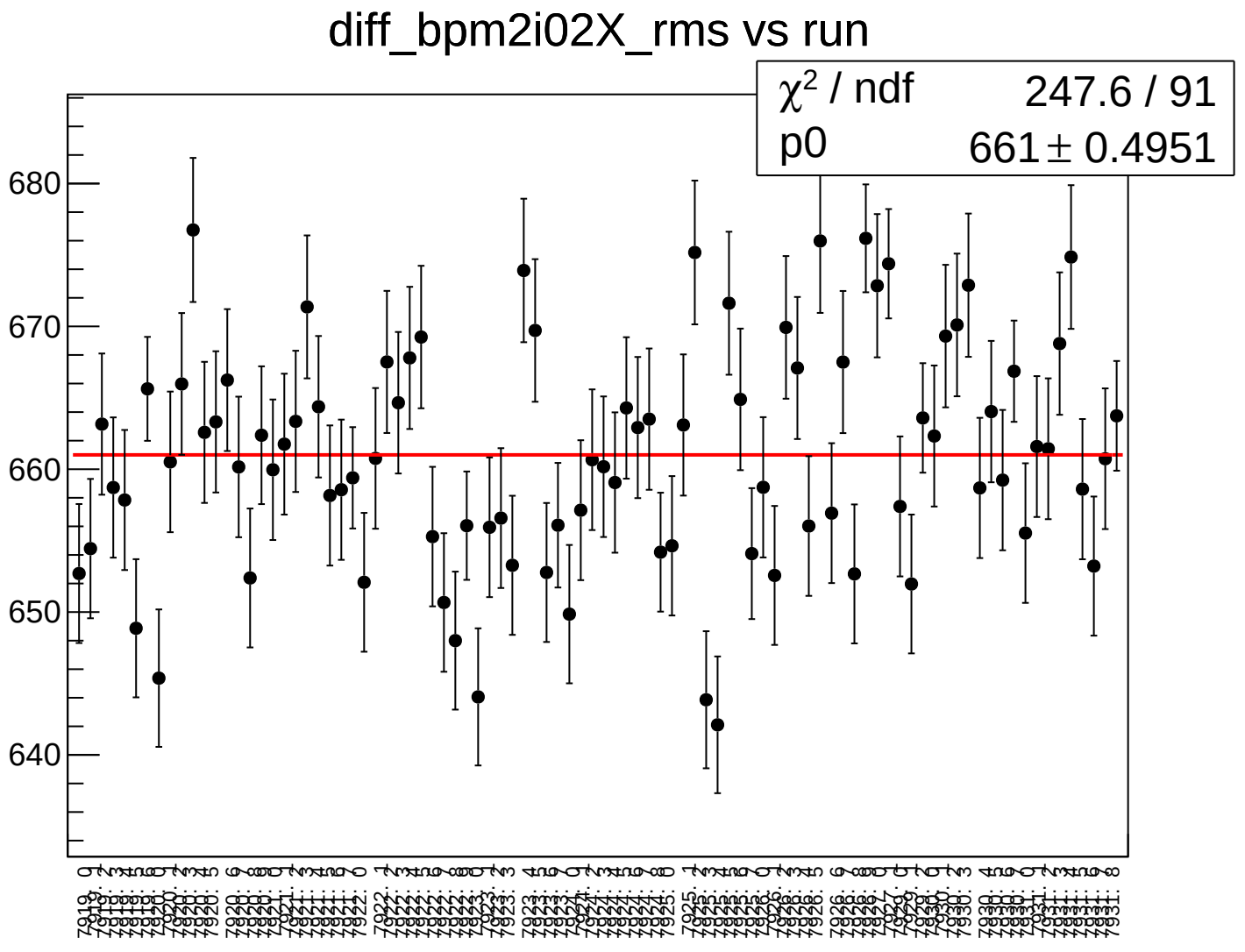

diff_bpm2i01Y_mean vs run
χ² / ndf 89.69 / 91
p0 3.62 ± 0.6991
pull
Entries 92
Mean 556.3
Std Dev 0

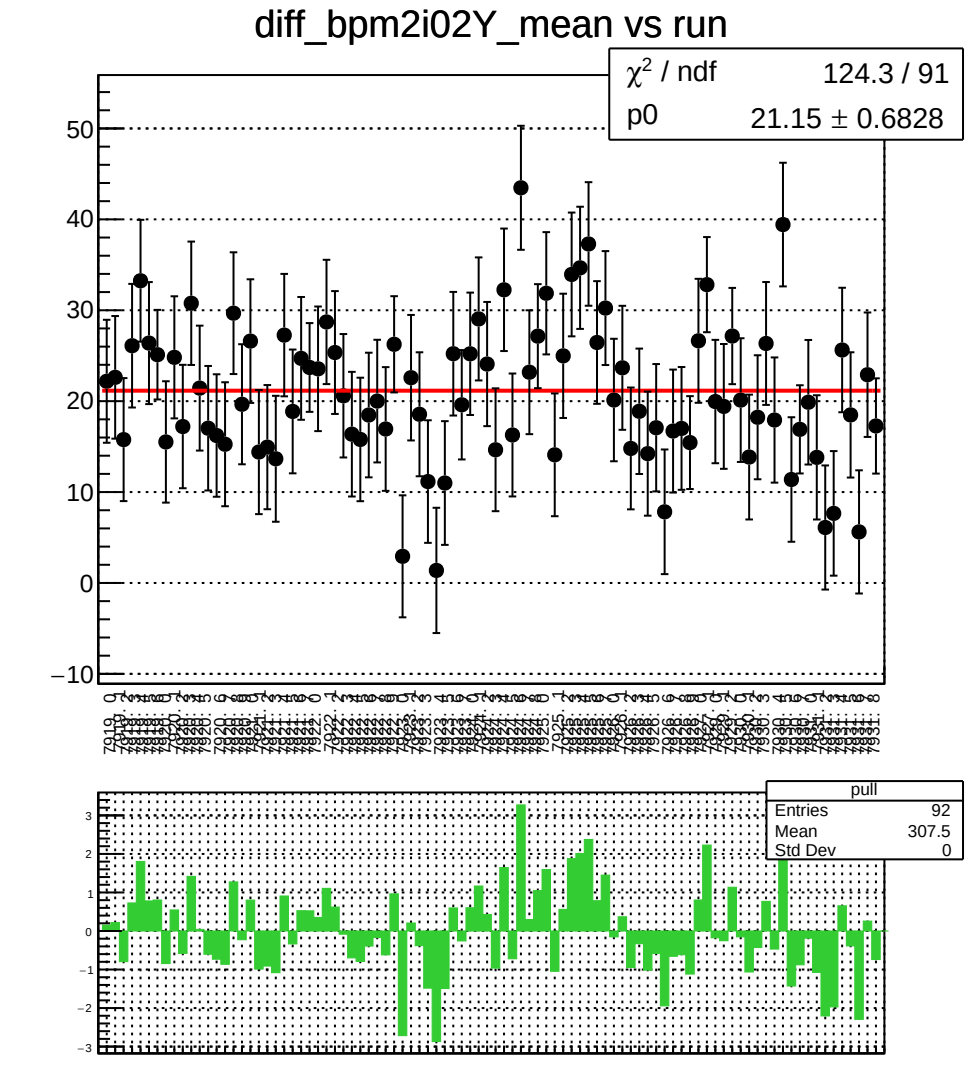

pull1D
Entries 92
Mean −0.01018
Std Dev 0.9873

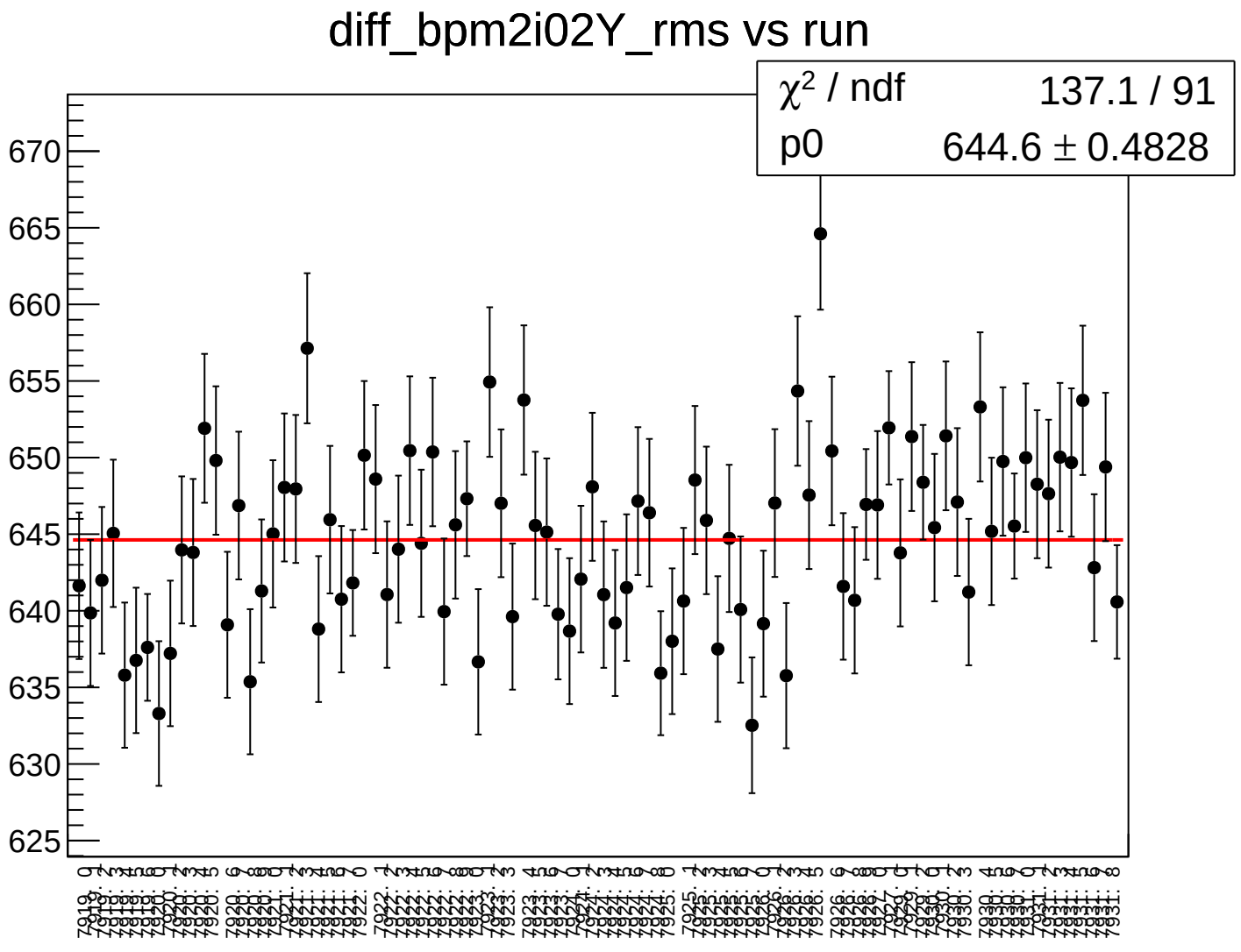

diff_bpm2i01Y_rms vs run
χ² / ndf 1504 / 91
p0 659.8 ± 0.4944
720
700
680
660
640
620

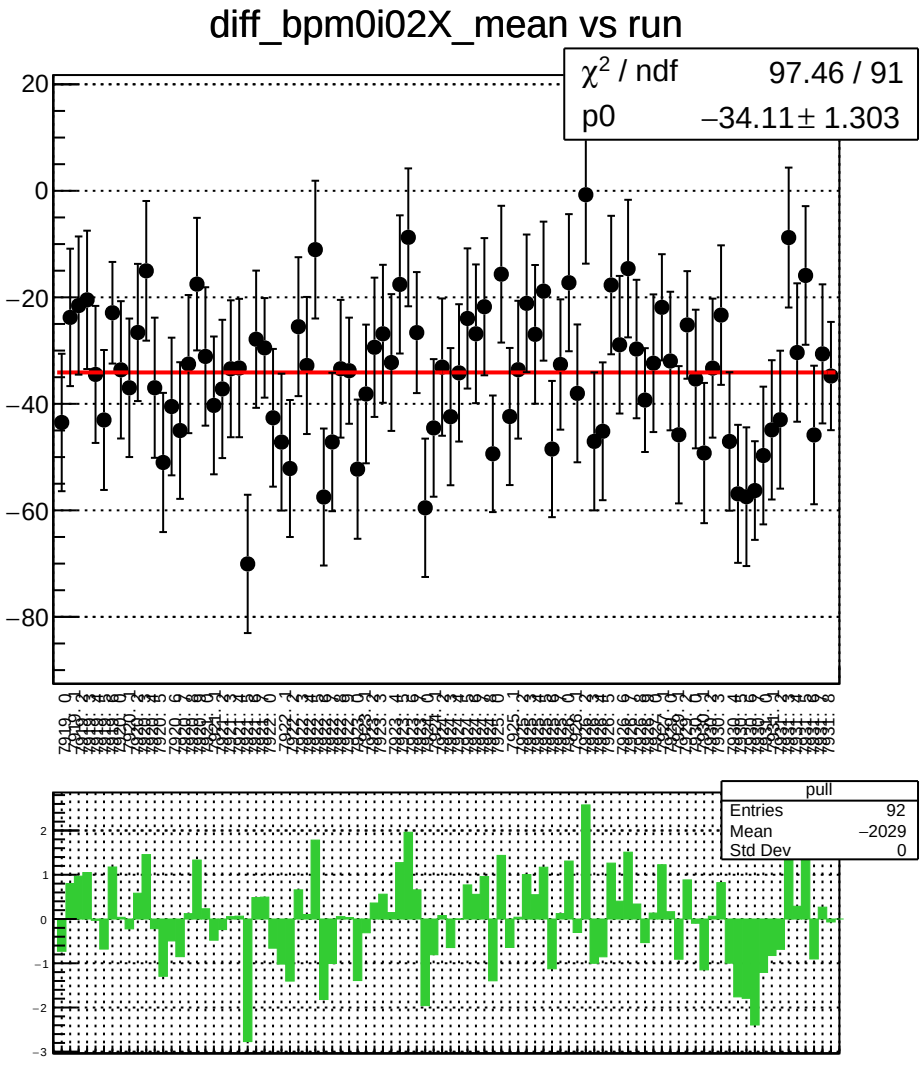

diff_bpm2i02X_mean vs run
χ² / ndf 79.52 / 91
p0 −24.08 ± 0.7001
pull
Entries 92
Mean 1634
Std Dev 0

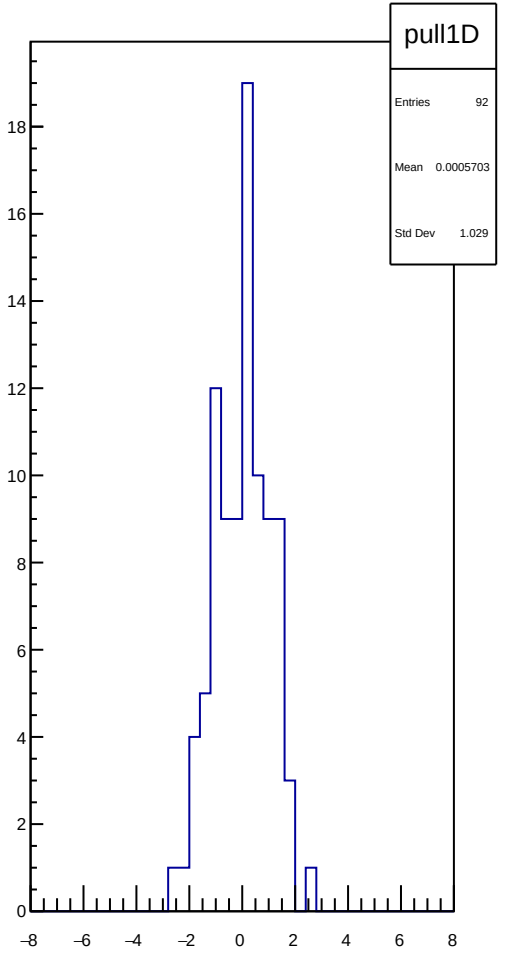

pull1D
Entries 92
Mean −0.0026
Std Dev 0.9297

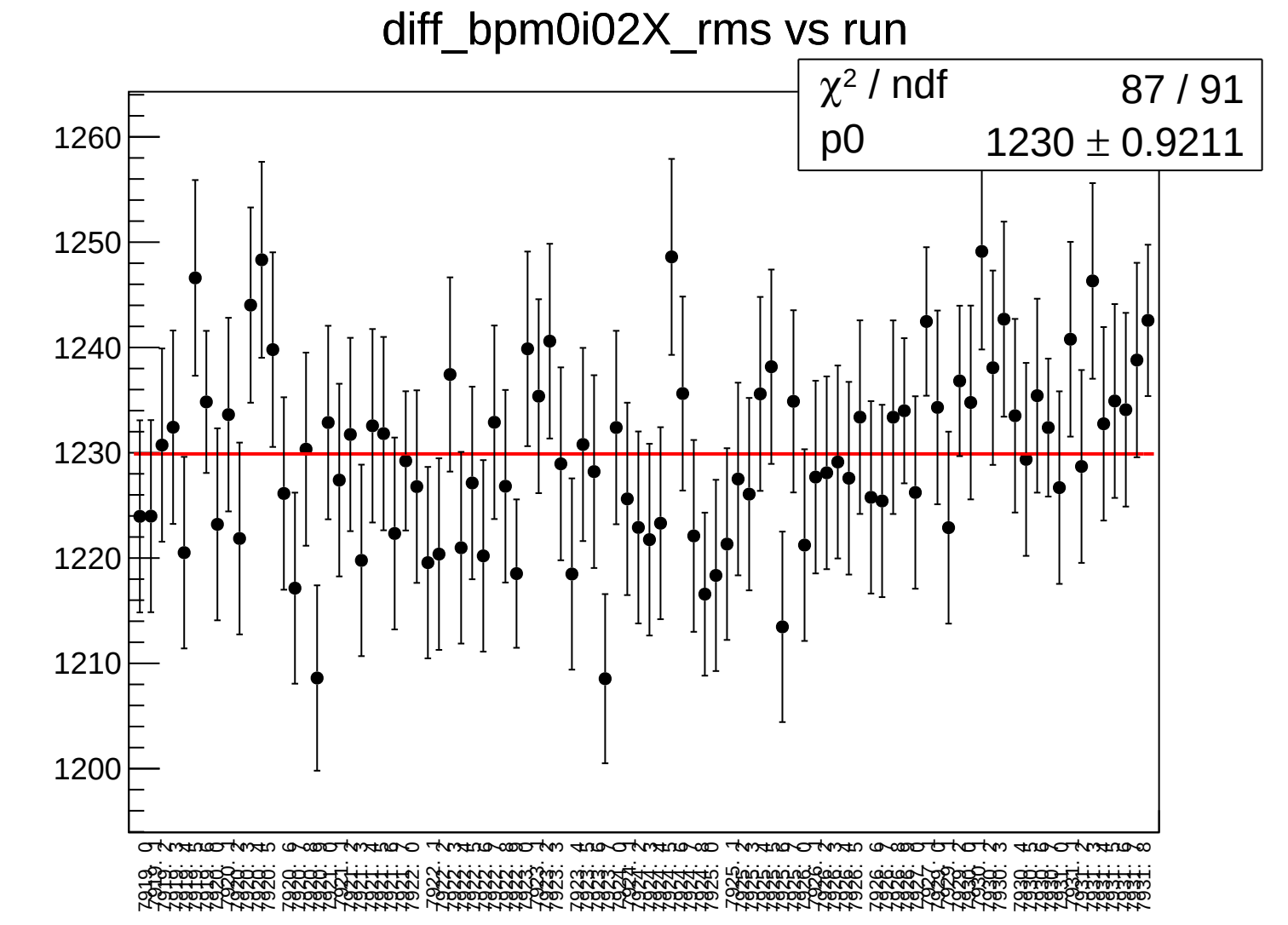

diff_bpm2i02X_rms vs run
χ^2 / ndf 247.6 / 91
p0 661 ± 0.4951
680
670
660
650
640

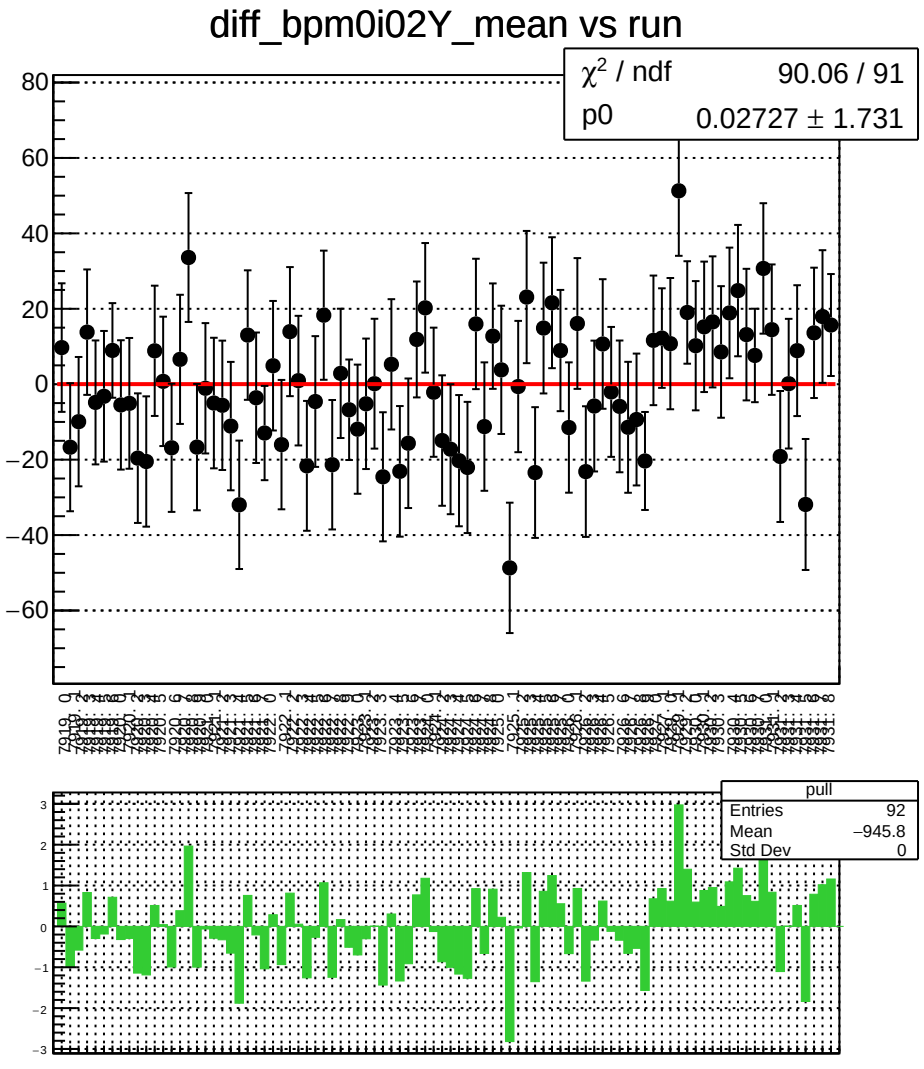

diff_bpm2i02Y_mean vs run
χ² / ndf 124.3 / 91
p0 21.15 ± 0.6828
pull
Entries 92
Mean 307.5
Std Dev 0
pull1D
Entries 92
Mean −0.01416
Std Dev 1.162

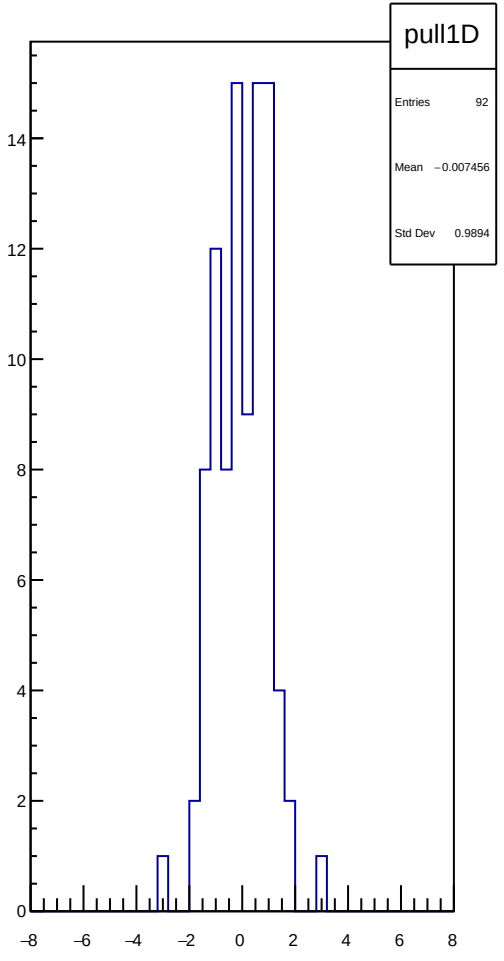

diff_bpm2i02Y_rms vs run
χ² / ndf 137.1 / 91
p0 644.6 ± 0.4828
670
665
660
655
650
645
640
635
630
625

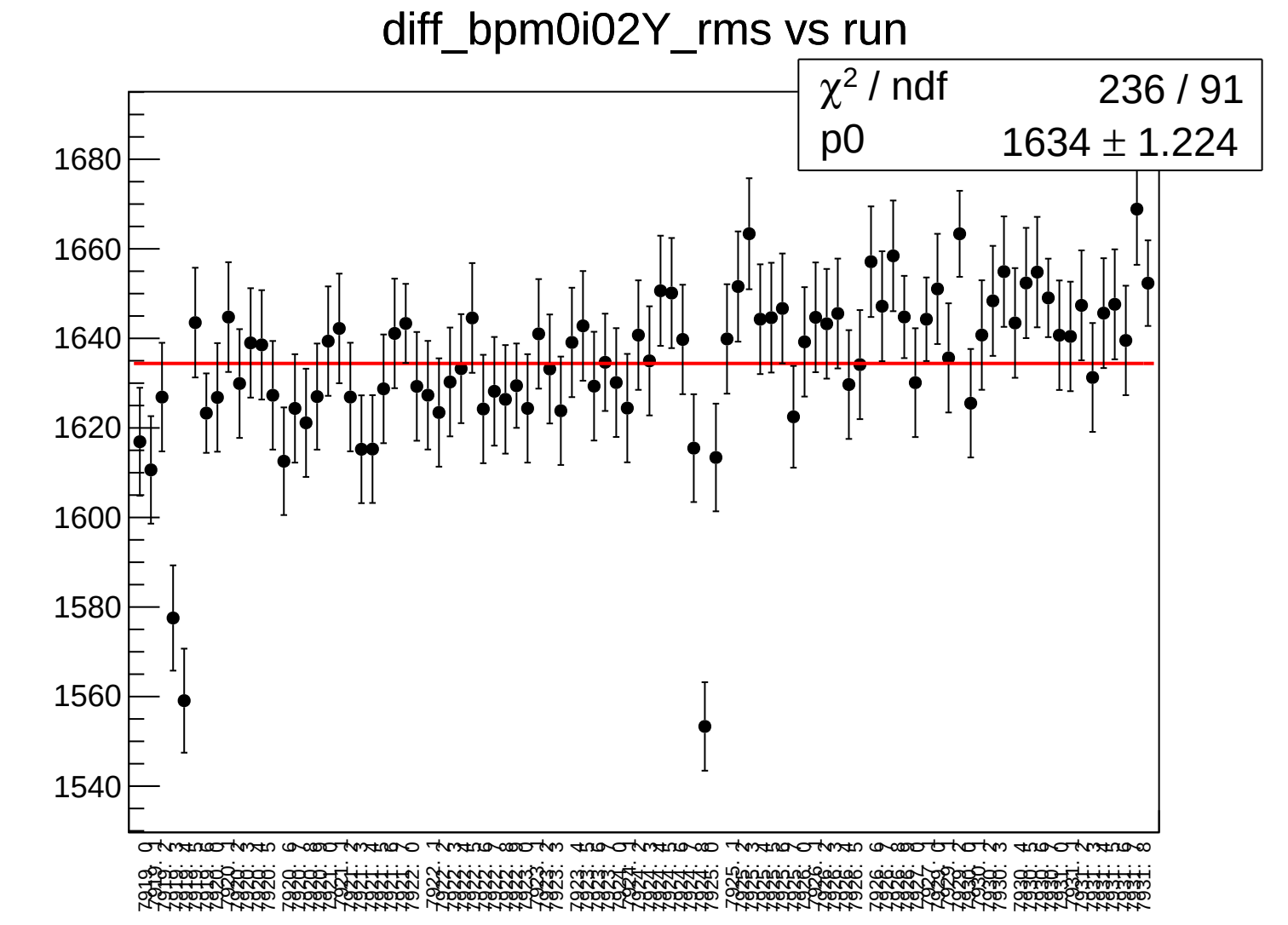

diff_bpm0i02X_mean vs run
χ² / ndf 97.46 / 91
p0 −34.11 ± 1.303
pull
Entries 92
Mean −2029
Std Dev 0

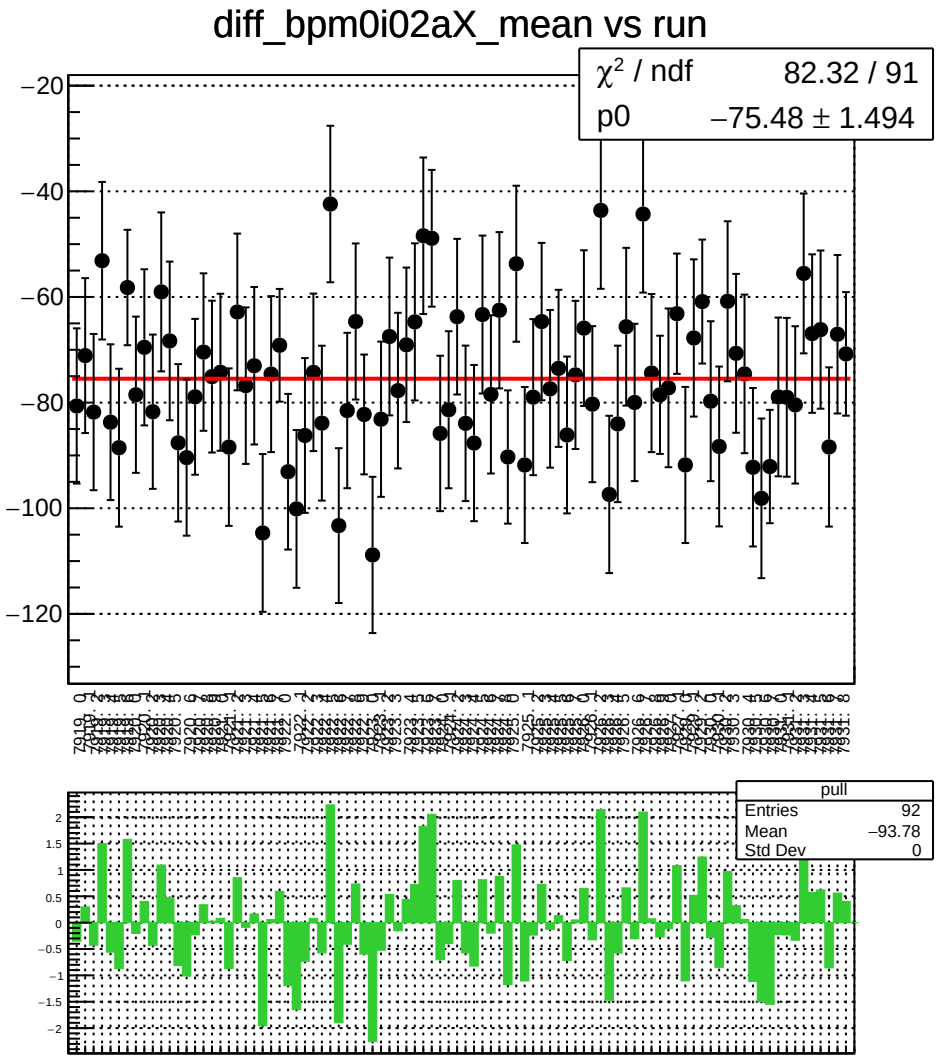

pull1D
Entries 92
Mean 0.0005703
Std Dev 1.029

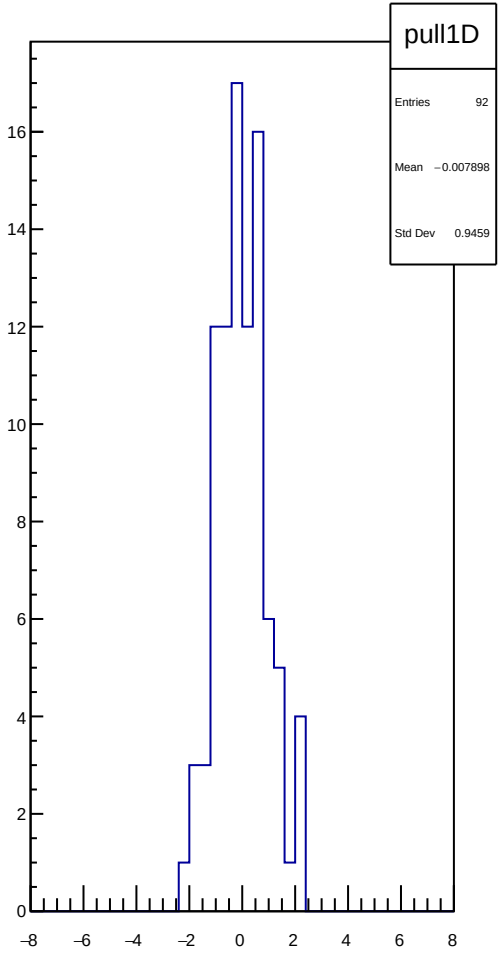

diff_bpm0i02X_rms vs run
χ² / ndf 87 / 91
p0 1230 ± 0.9211
1260
1250
1240
1230
1220
1210
1200

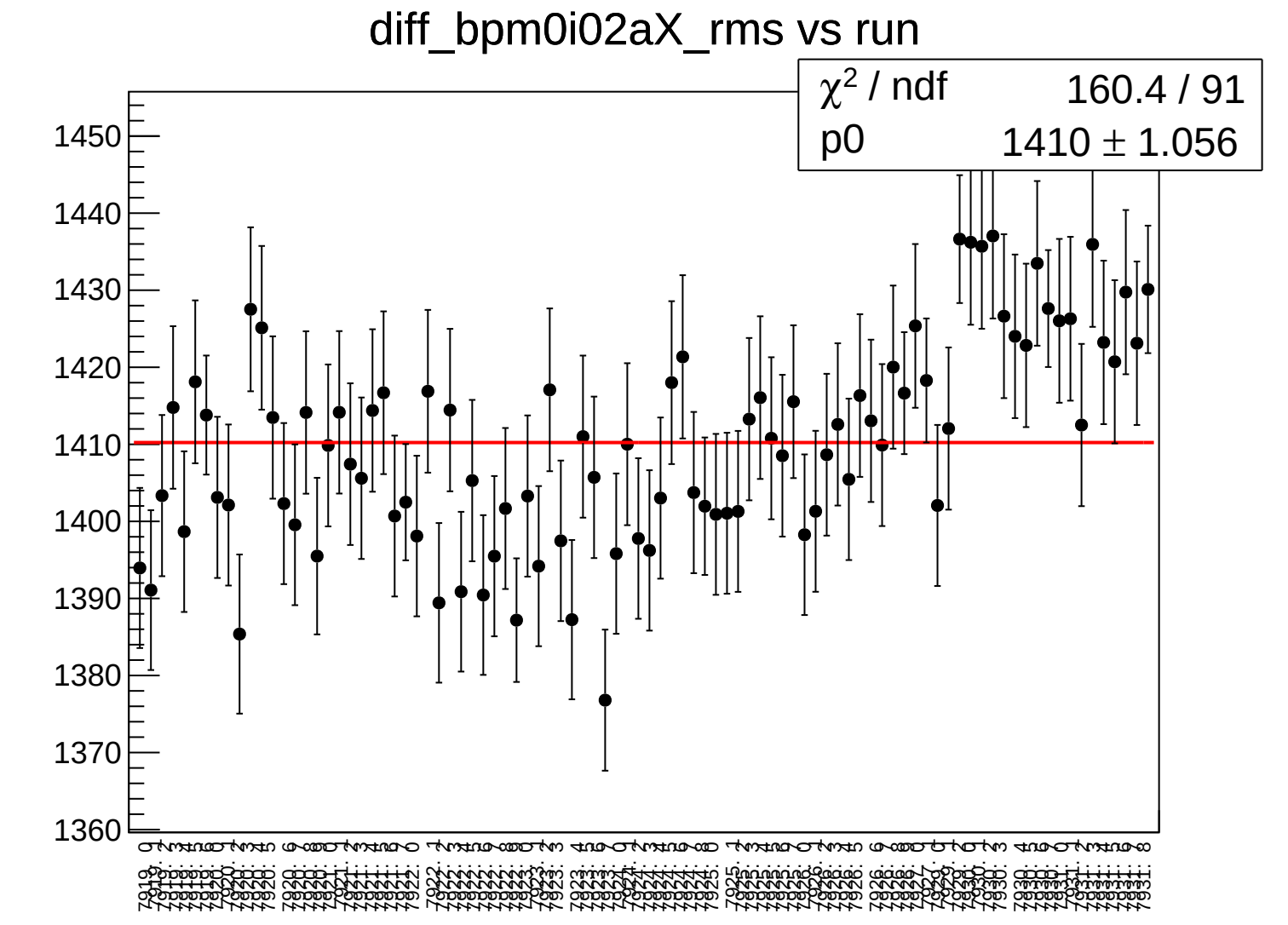

diff_bpm0i02Y_mean vs run
χ² / ndf 90.06 / 91
p0 0.02727 ± 1.731
pull
Entries 92
Mean −945.8
Std Dev 0

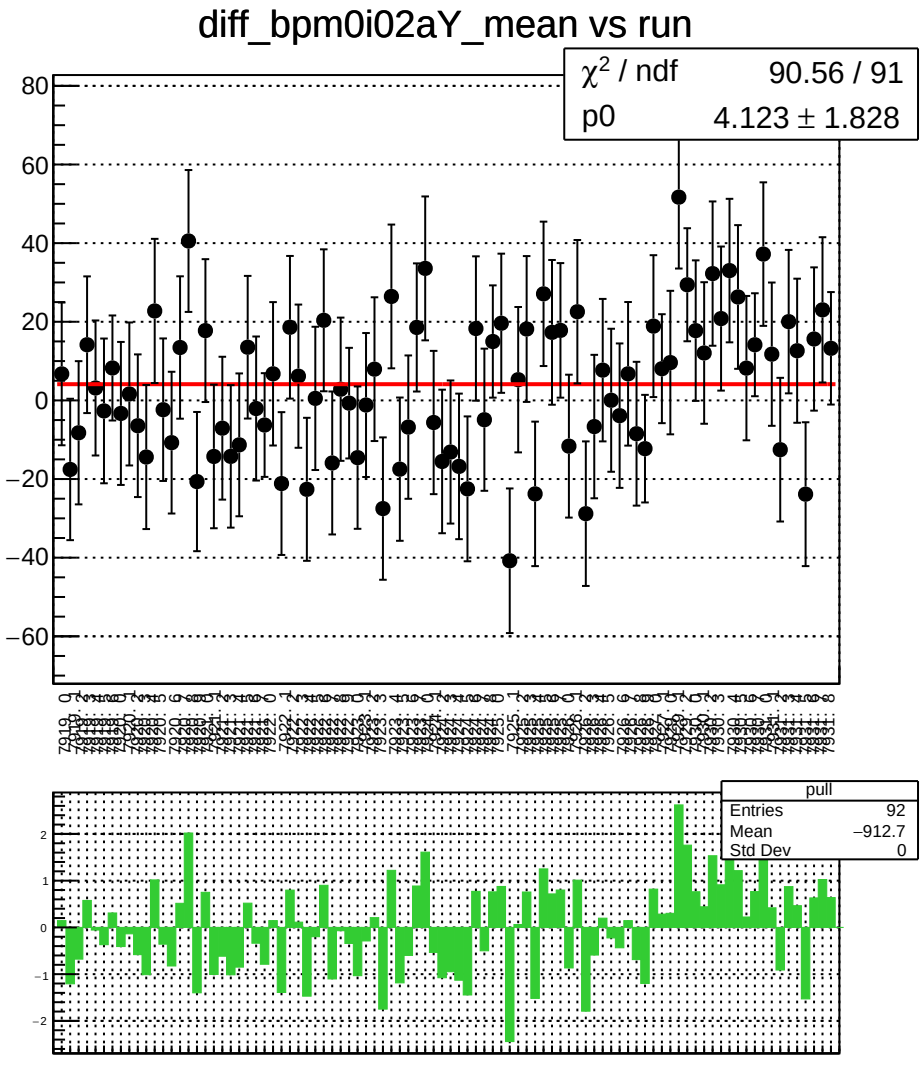

pull1D
Entries 92
Mean −0.007456
Std Dev 0.9894

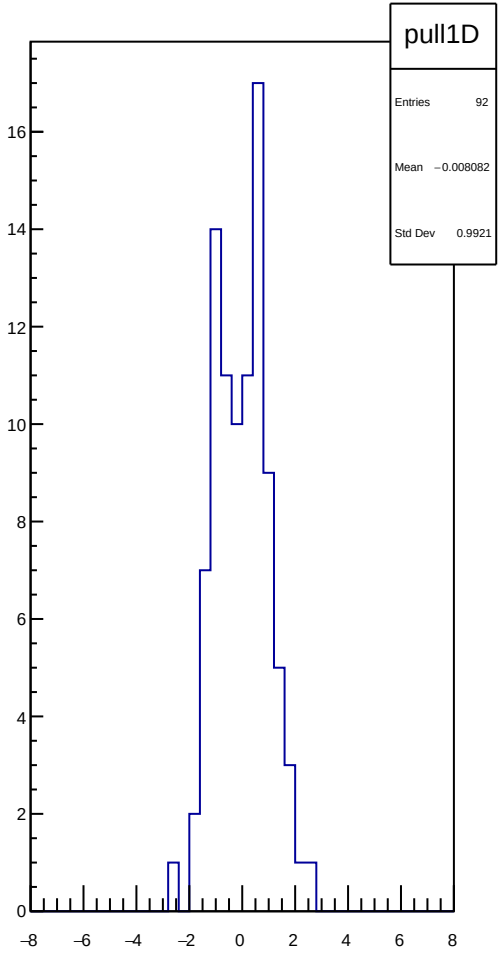

diff_bpm0i02Y_rms vs run
χ² / ndf 236 / 91
p0 1634 ± 1.224
1680
1660
1640
1620
1600
1580
1560
1540

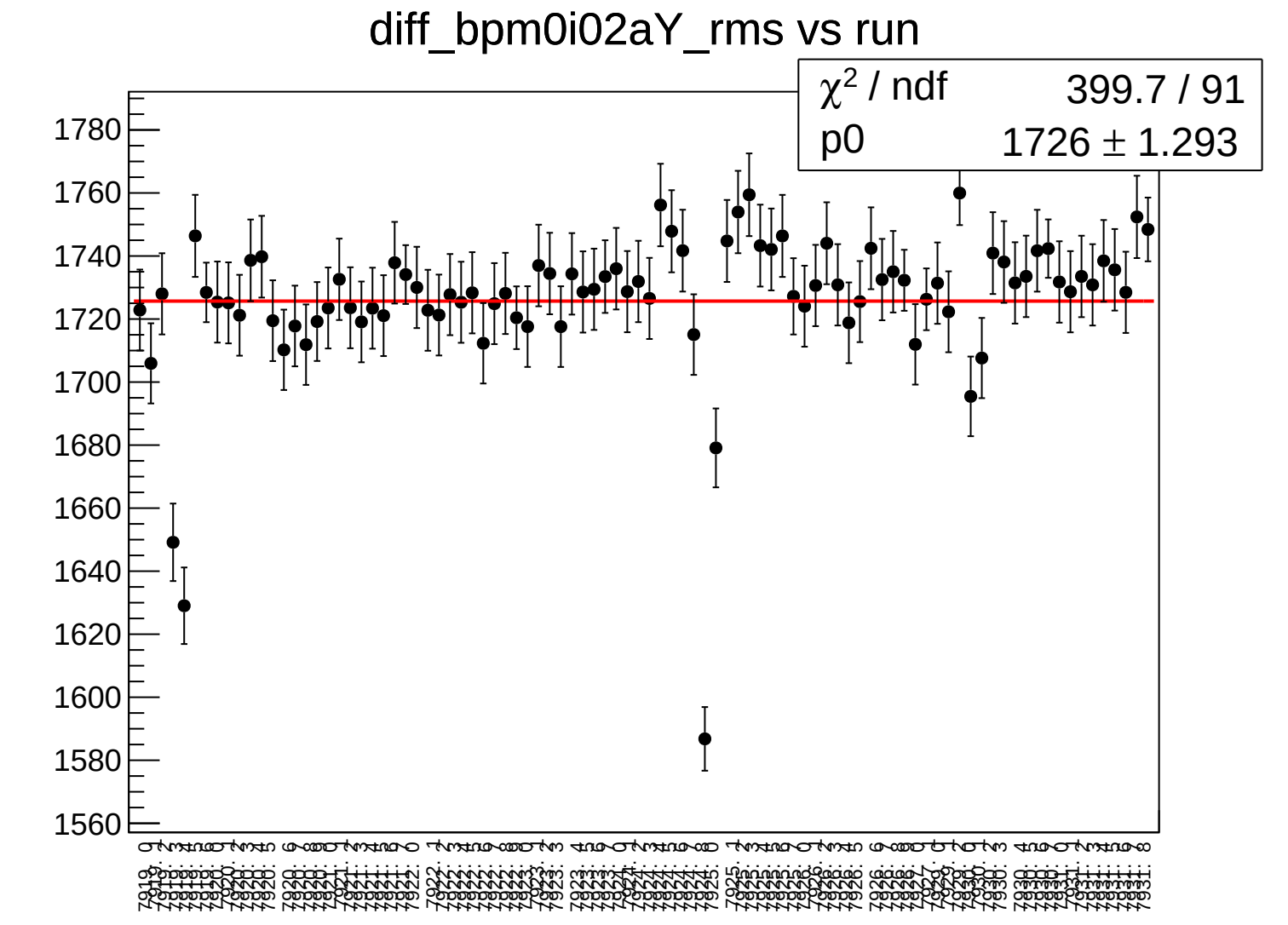

diff_bpm0i02aX_mean vs run
χ² / ndf 82.32 / 91
p0 −75.48 ± 1.494
pull
Entries 92
Mean −93.78
Std Dev 0

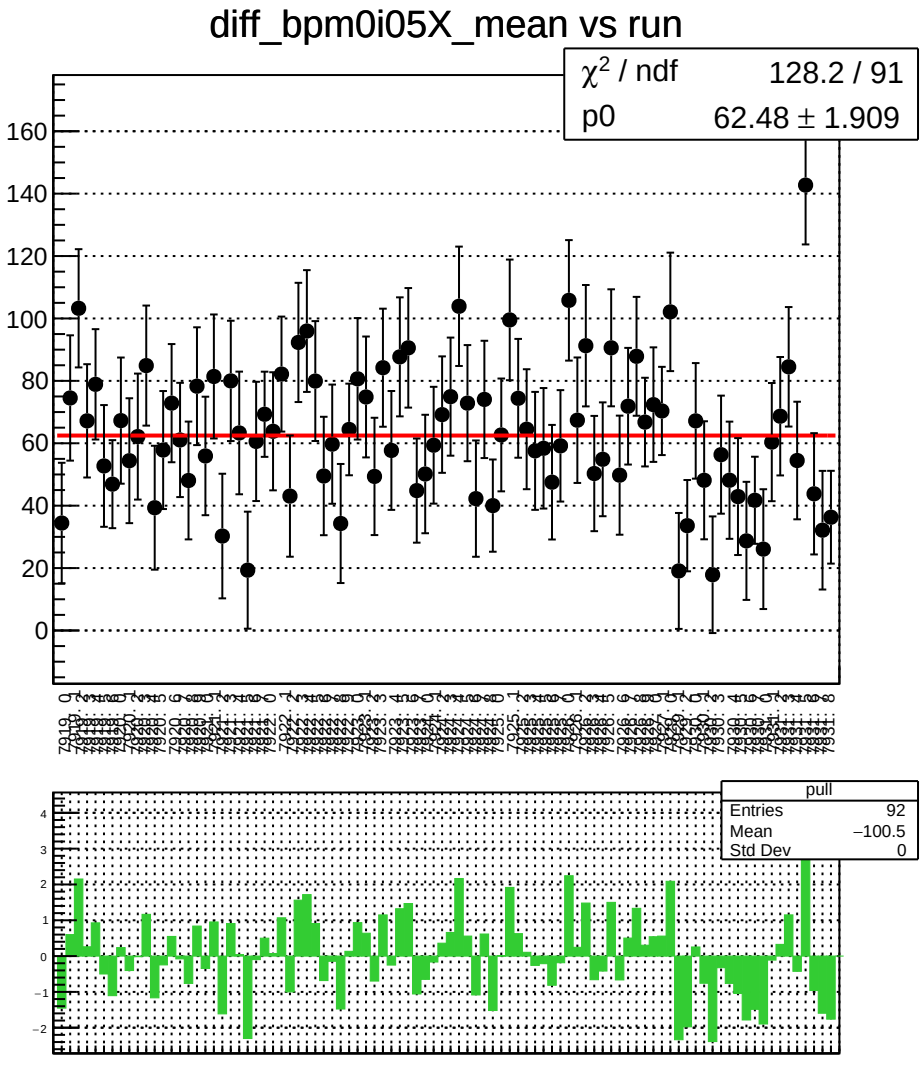

pull1D
Entries 92
Mean −0.007898
Std Dev 0.9459

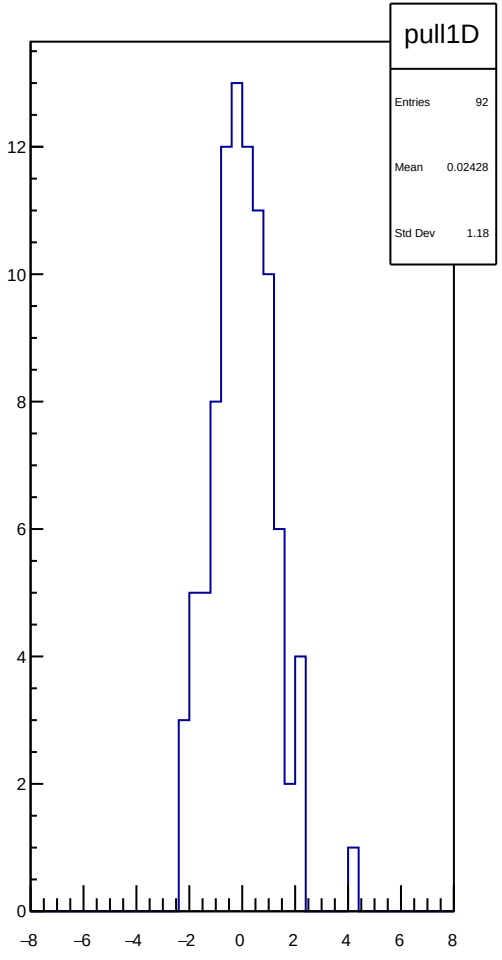

diff_bpm0i02aX_rms vs run
χ² / ndf 160.4 / 91
p0 1410 ± 1.056
1450
1440
1430
1420
1410
1400
1390
1380
1370
1360

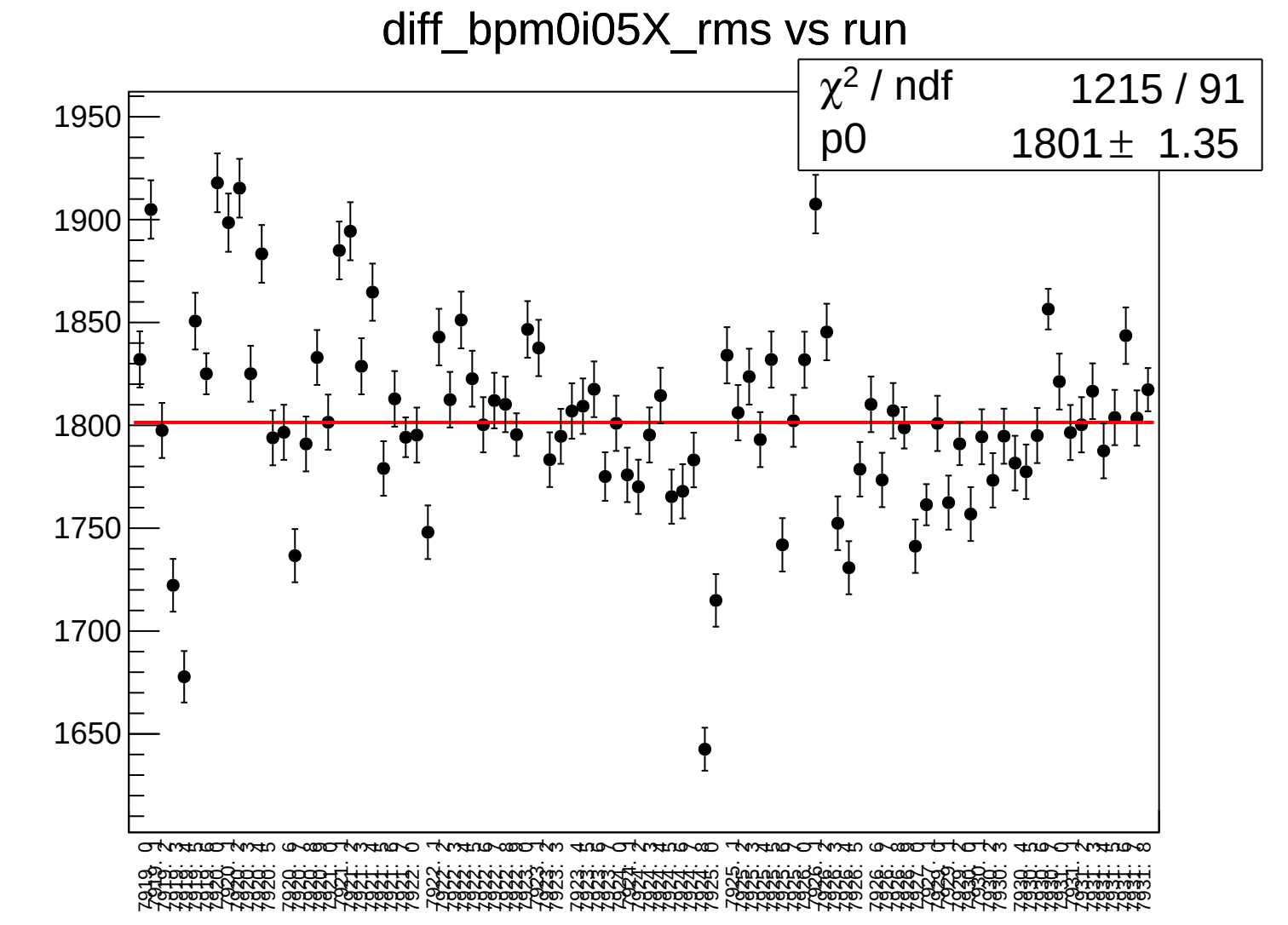

diff_bpm0i02aY_mean vs run
χ² / ndf 90.56 / 91
p0 4.123 ± 1.828
pull
Entries 92
Mean −912.7
Std Dev 0

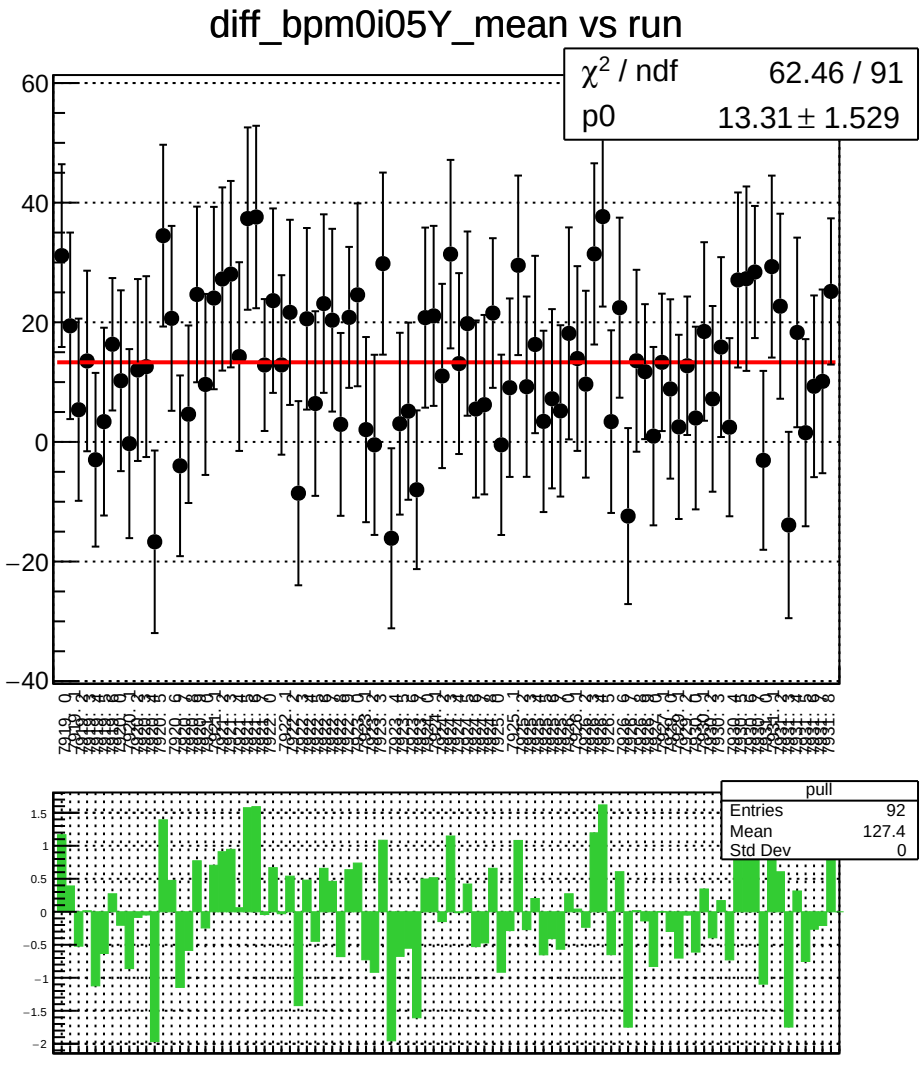

pull1D
Entries 92
Mean −0.008082
Std Dev 0.9921

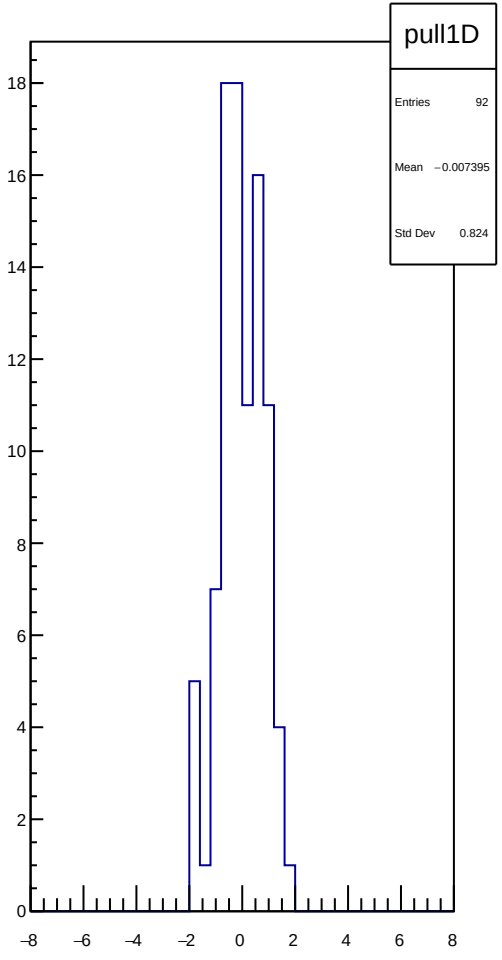

diff_bpm0i02aY_rms vs run
χ² / ndf 399.7 / 91
p0 1726 ± 1.293
1780
1760
1740
1720
1700
1680
1660
1640
1620
1600
1580
1560

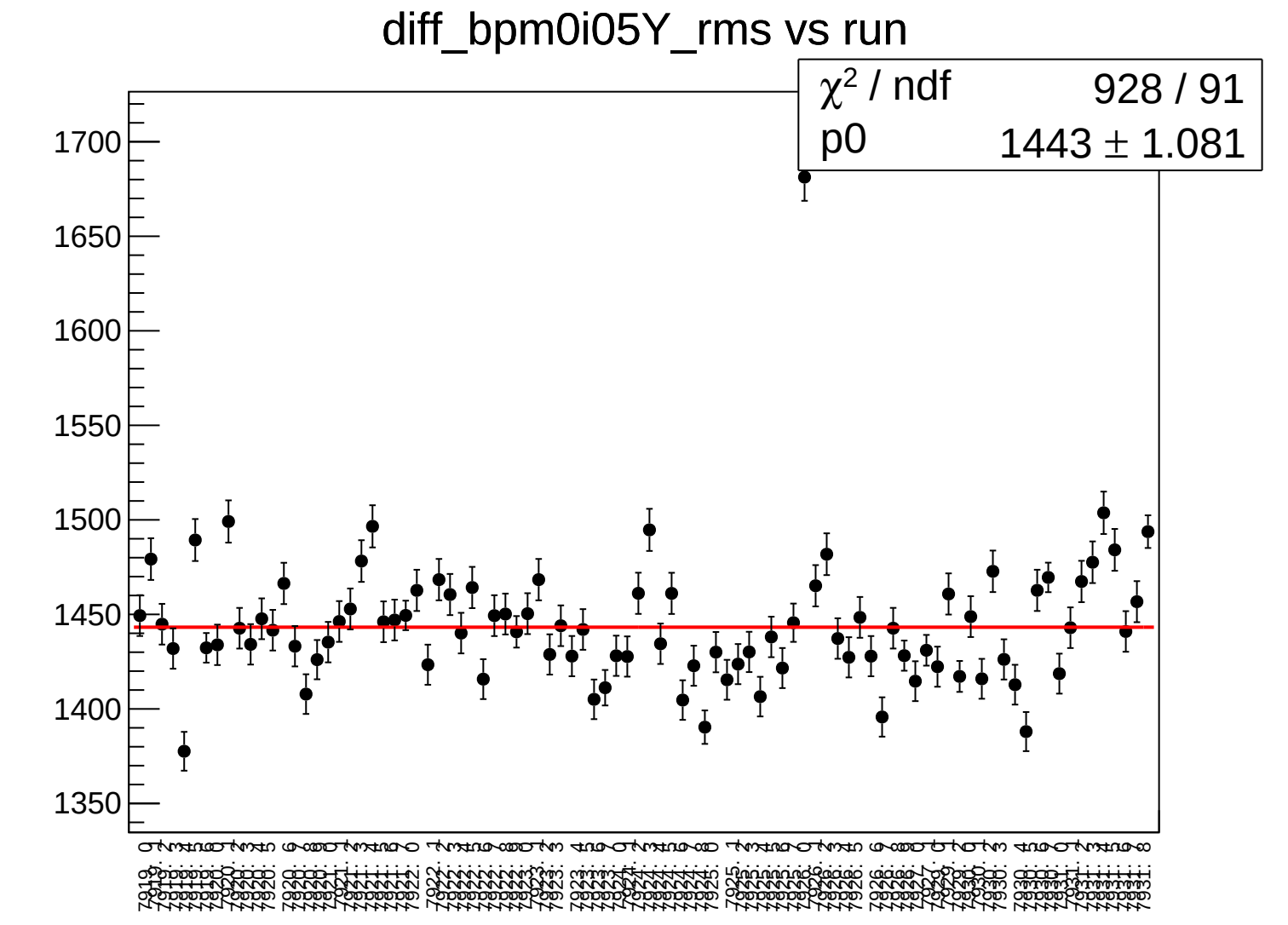

diff_bpm0i05X_mean vs run
χ² / ndf 128.2 / 91
p0 62.48 ± 1.909
pull
Entries 92
Mean −100.5
Std Dev 0

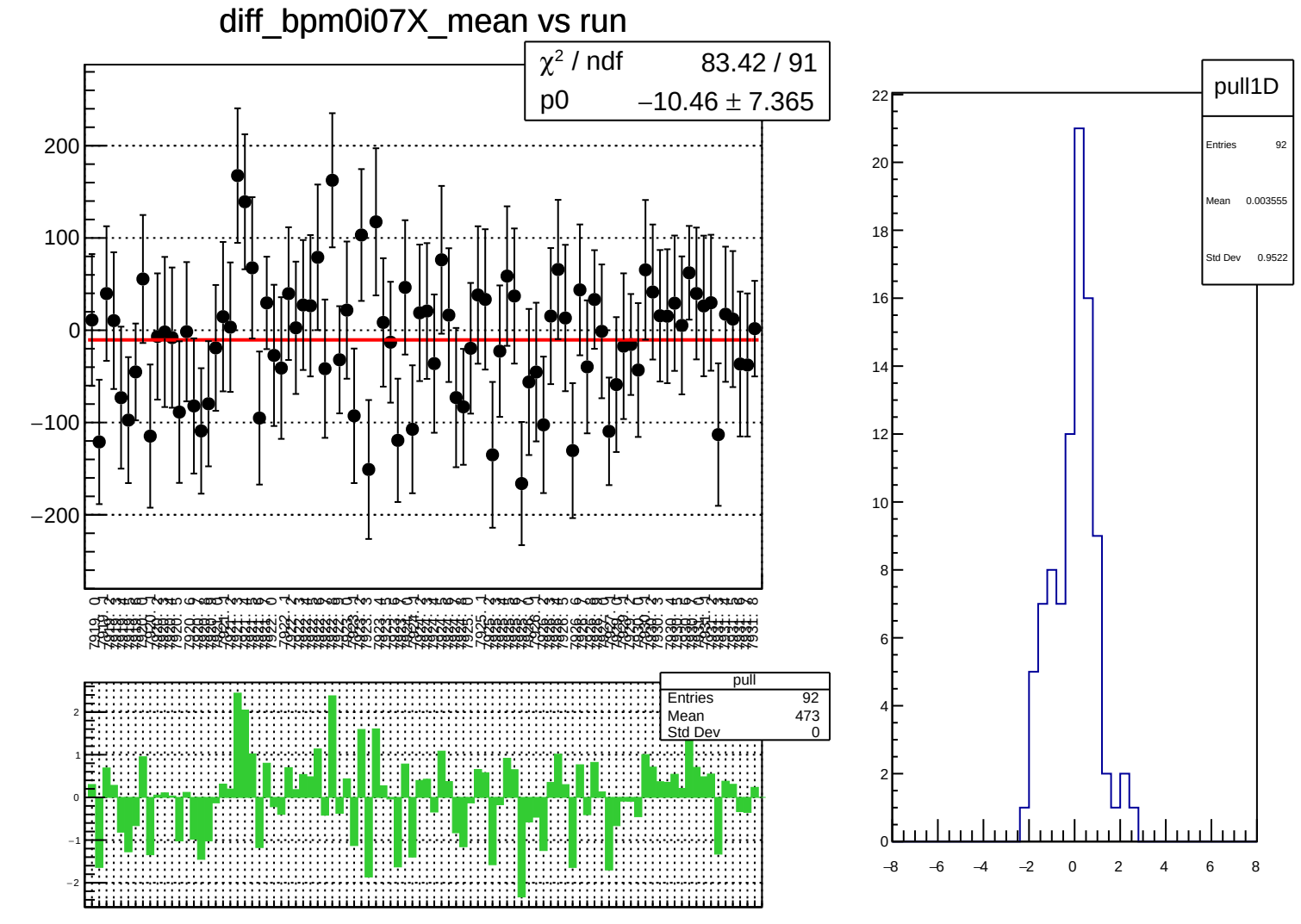

pull1D
Entries 92
Mean 0.02428
Std Dev 1.18

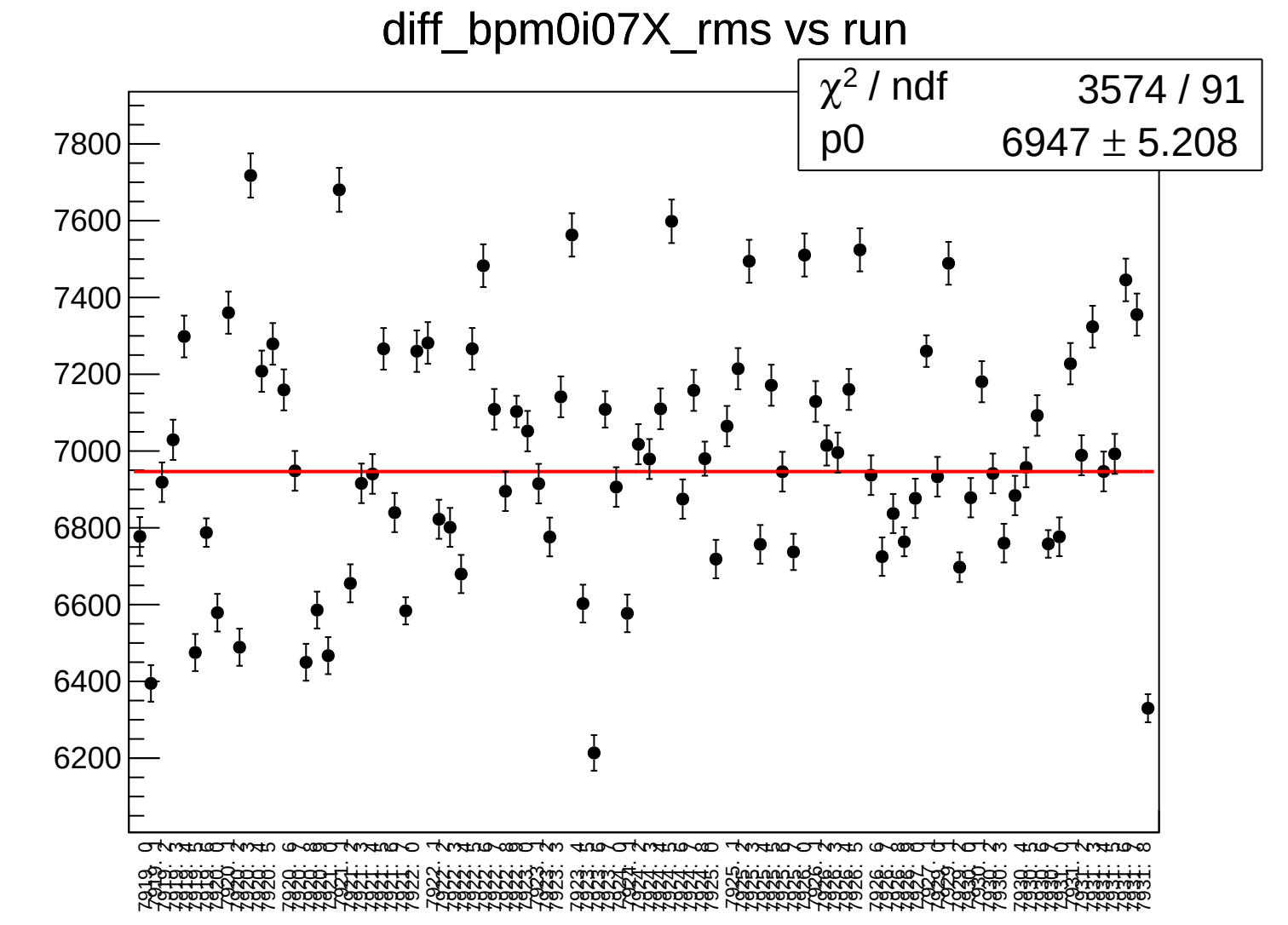

diff_bpm0i05X_rms vs run
χ² / ndf 1215 / 91
p0 1801 ± 1.35
1950
1900
1850
1800
1750
1700
1650

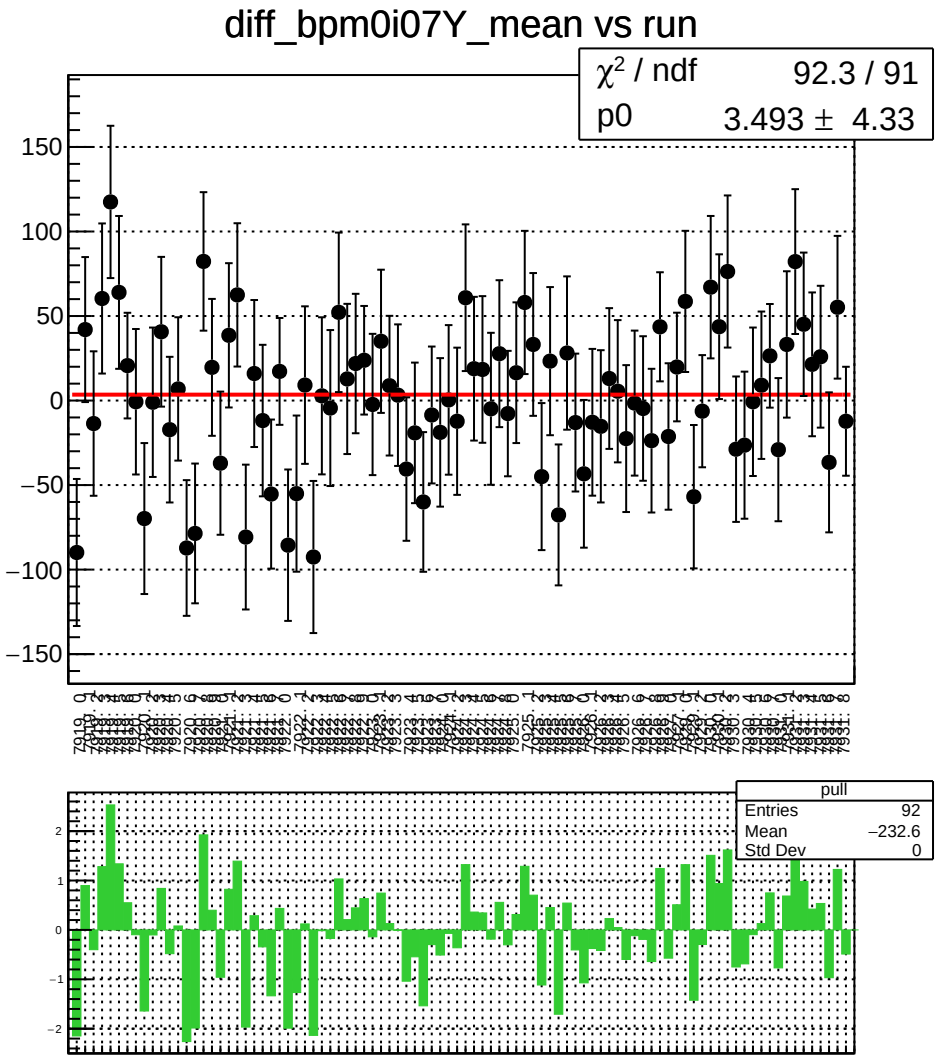

diff_bpm0i05Y_mean vs run
χ^2 / ndf 62.46 / 91
p0 13.31 ± 1.529
pull
Entries 92
Mean 127.4
Std Dev 0

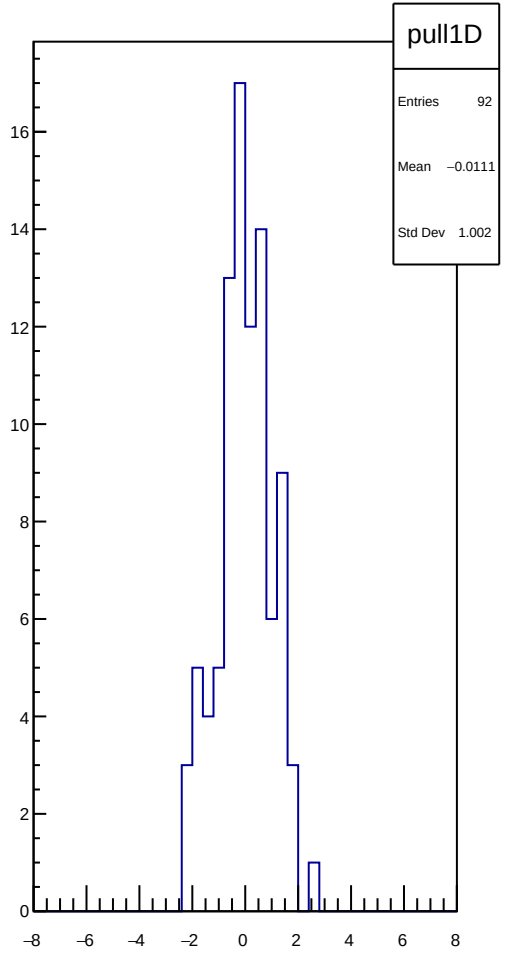

pull1D
Entries 92
Mean −0.007395
Std Dev 0.824

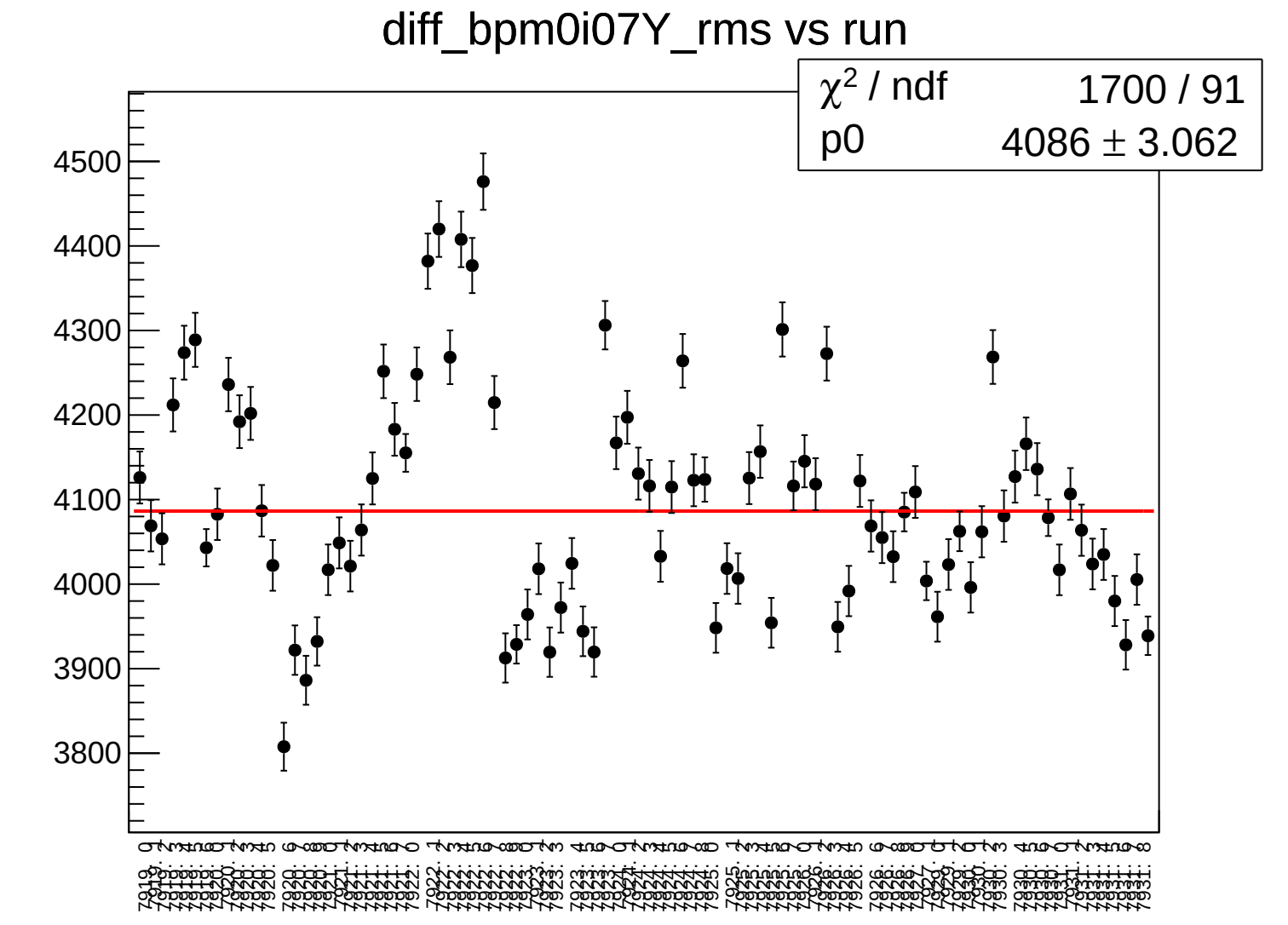

diff_bpm0i05Y_rms vs run
χ² / ndf 928 / 91
p0 1443 ± 1.081
1700
1650
1600
1550
1500
1450
1400
1350

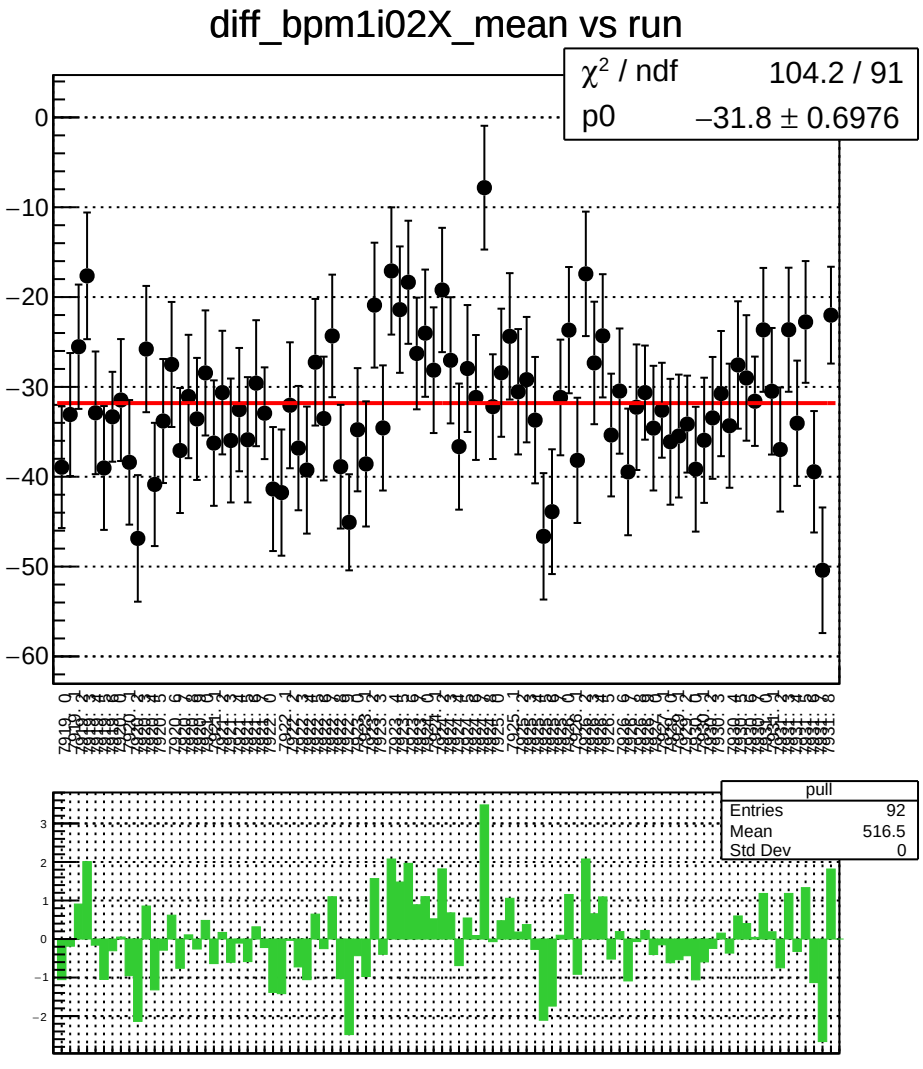

diff_bpm0i07X_mean vs run
χ² / ndf 83.42 / 91
p0 −10.46 ± 7.365
200
100
0
−100
−200
pull
Entries 92
Mean 473
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.003555
Std Dev 0.9522
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

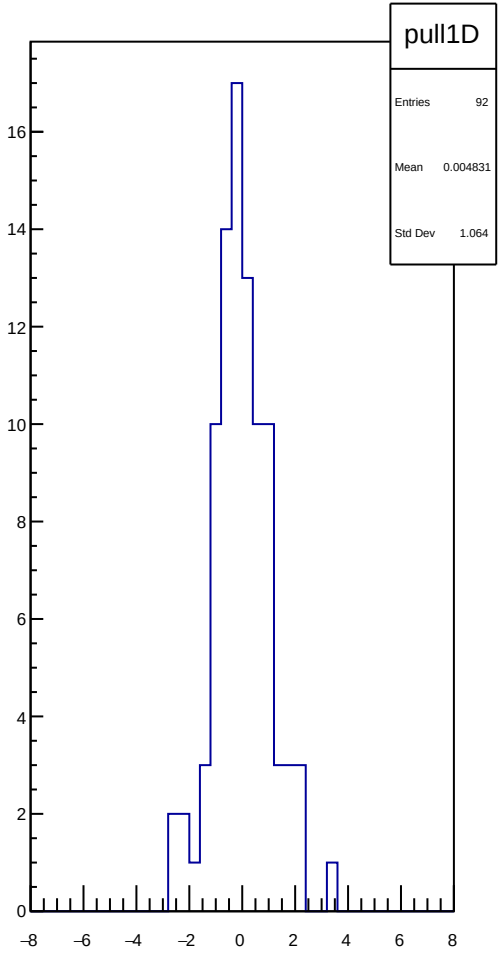

diff_bpm0i07X_rms vs run
χ² / ndf 3574 / 91
p0 6947 ± 5.208
7800
7600
7400
7200
7000
6800
6600
6400
6200

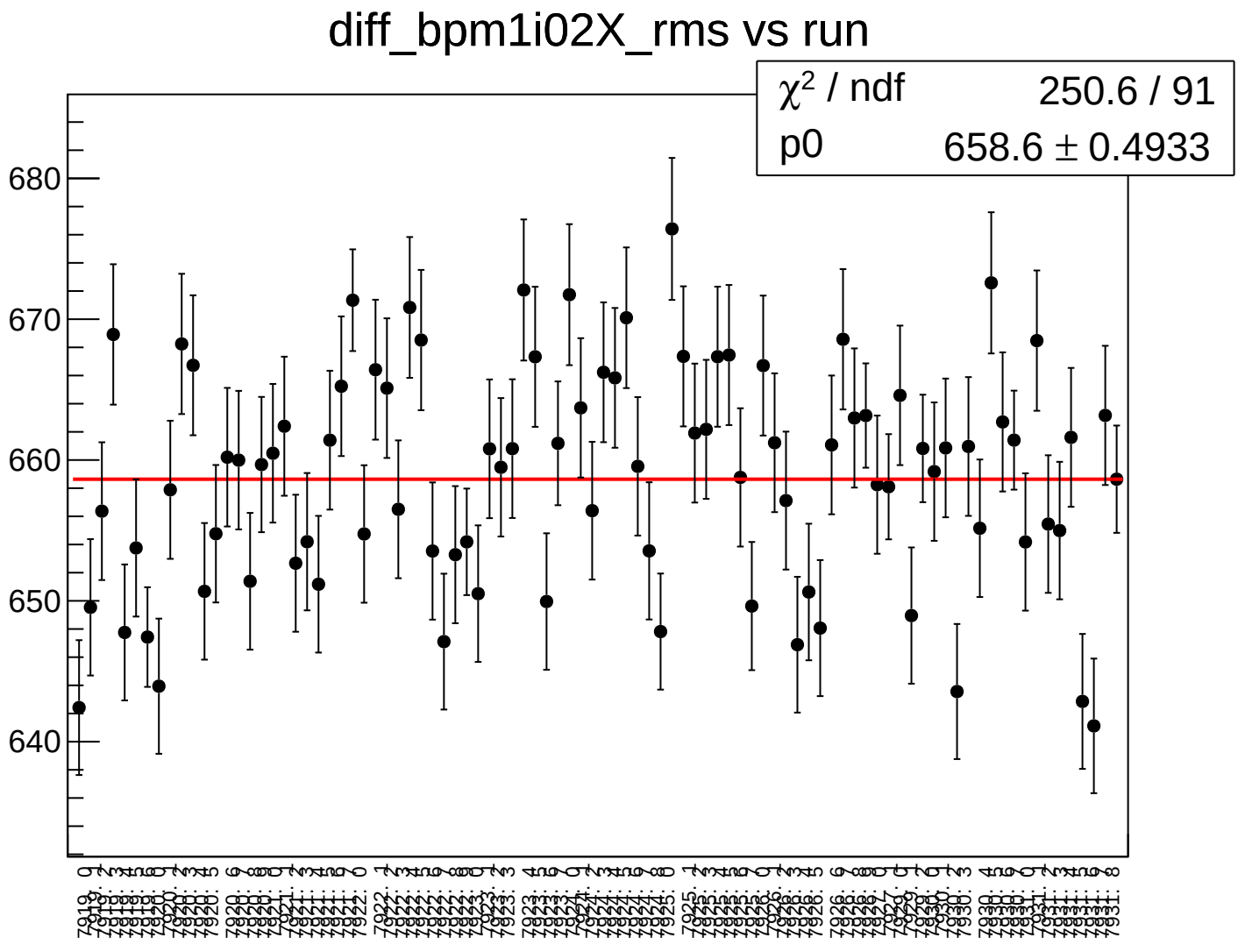

diff_bpm0i07Y_mean vs run
χ² / ndf 92.3 / 91
p0 3.493 ± 4.33
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean −232.6
Std Dev 0
2
1
0
−1
−2

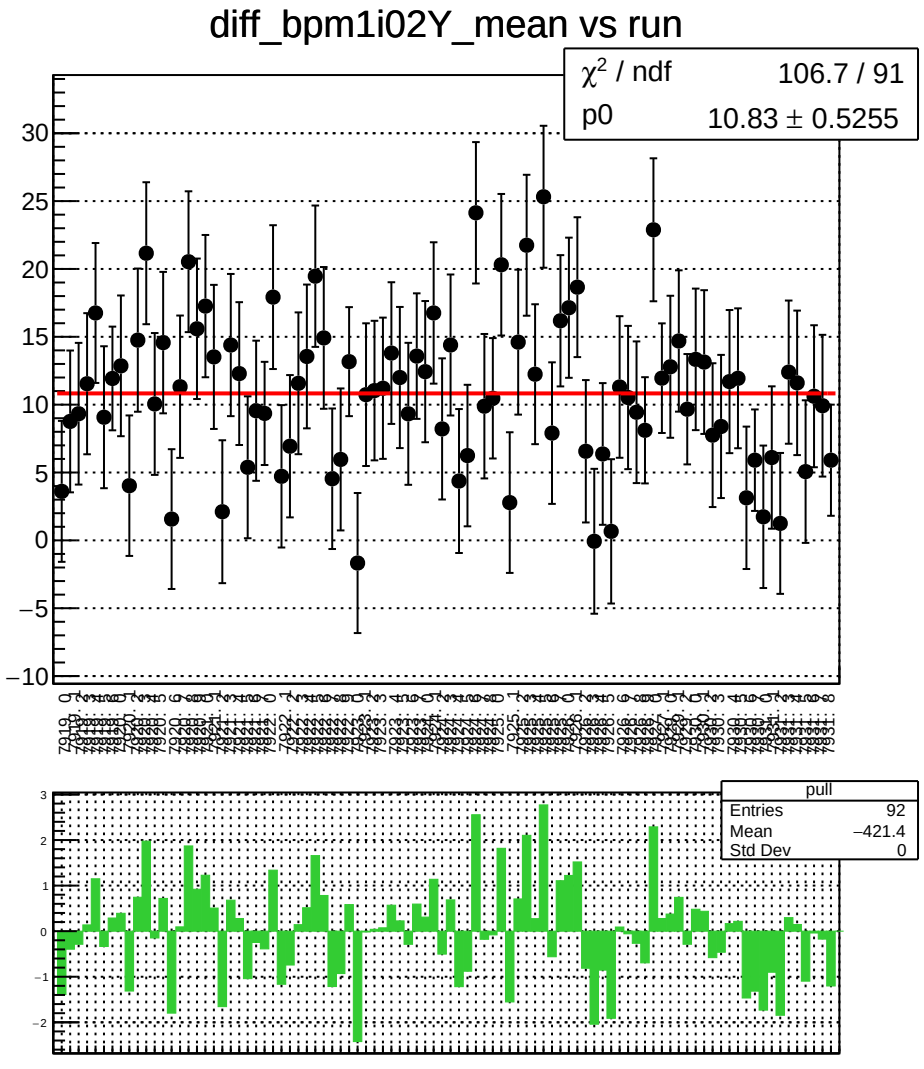

pull1D
Entries 92
Mean −0.0111
Std Dev 1.002
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

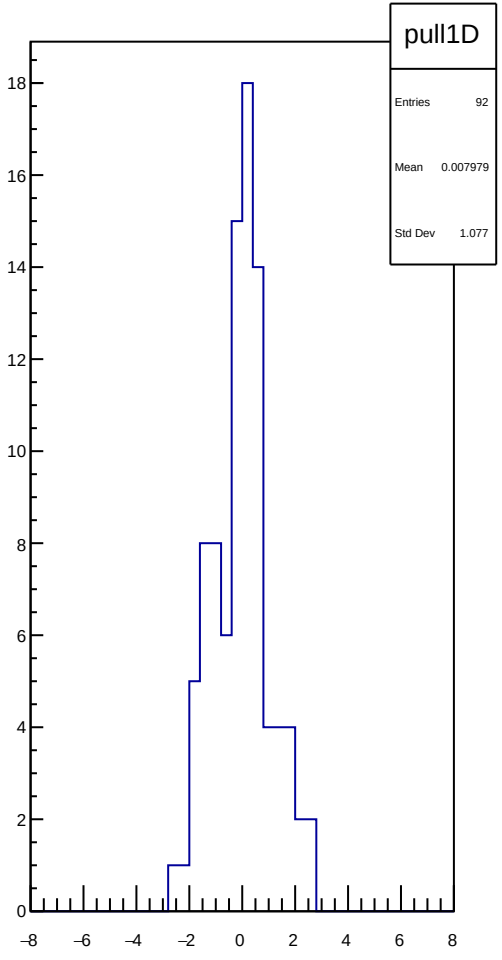

diff_bpm0i07Y_rms vs run
χ² / ndf 1700 / 91
p0 4086 ± 3.062
4500
4400
4300
4200
4100
4000
3900
3800

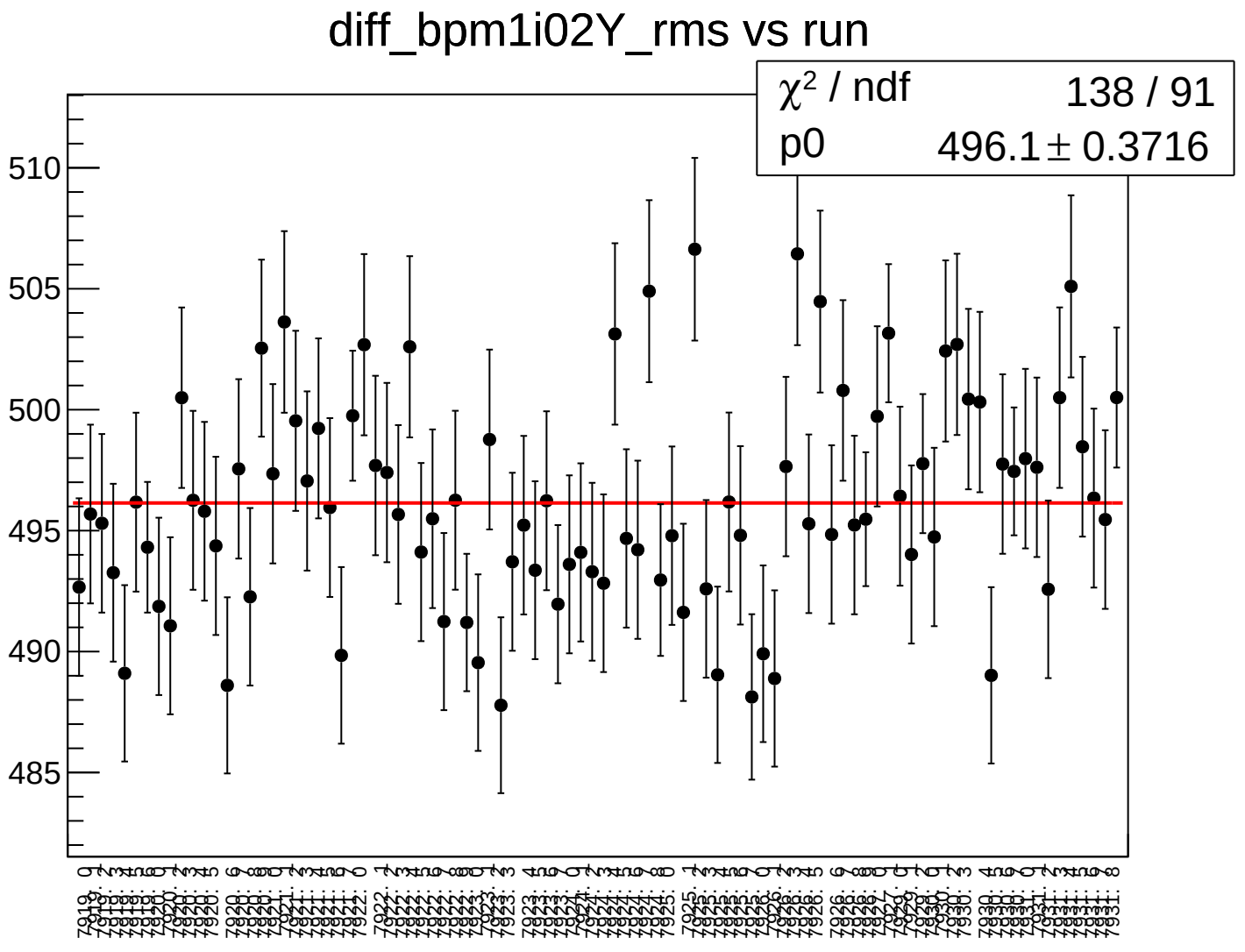

diff_bpm1i02X_mean vs run
χ² / ndf 104.2 / 91
p0 −31.8 ± 0.6976
pull
Entries 92
Mean 516.5
Std Dev 0

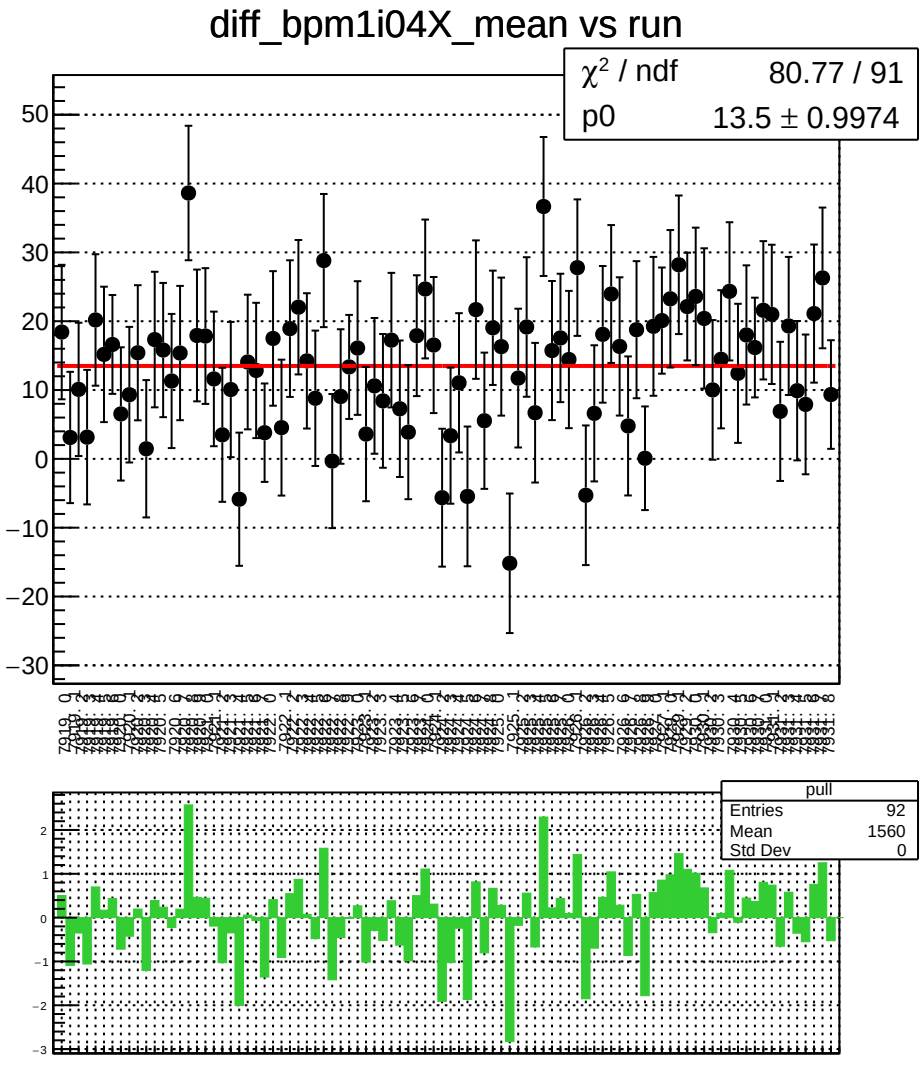

pull1D
Entries 92
Mean 0.004831
Std Dev 1.064

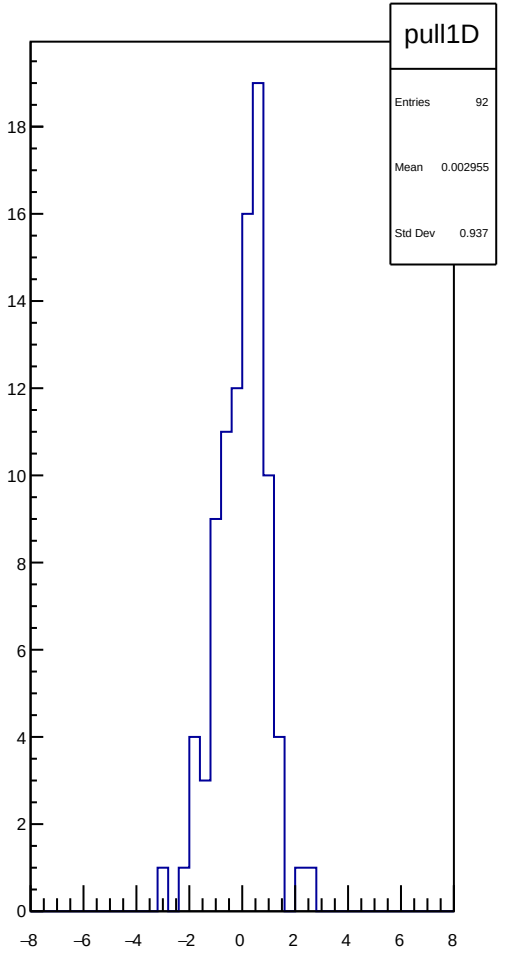

diff_bpm1i02X_rms vs run
χ² / ndf 250.6 / 91
p0 658.6 ± 0.4933
680
670
660
650
640

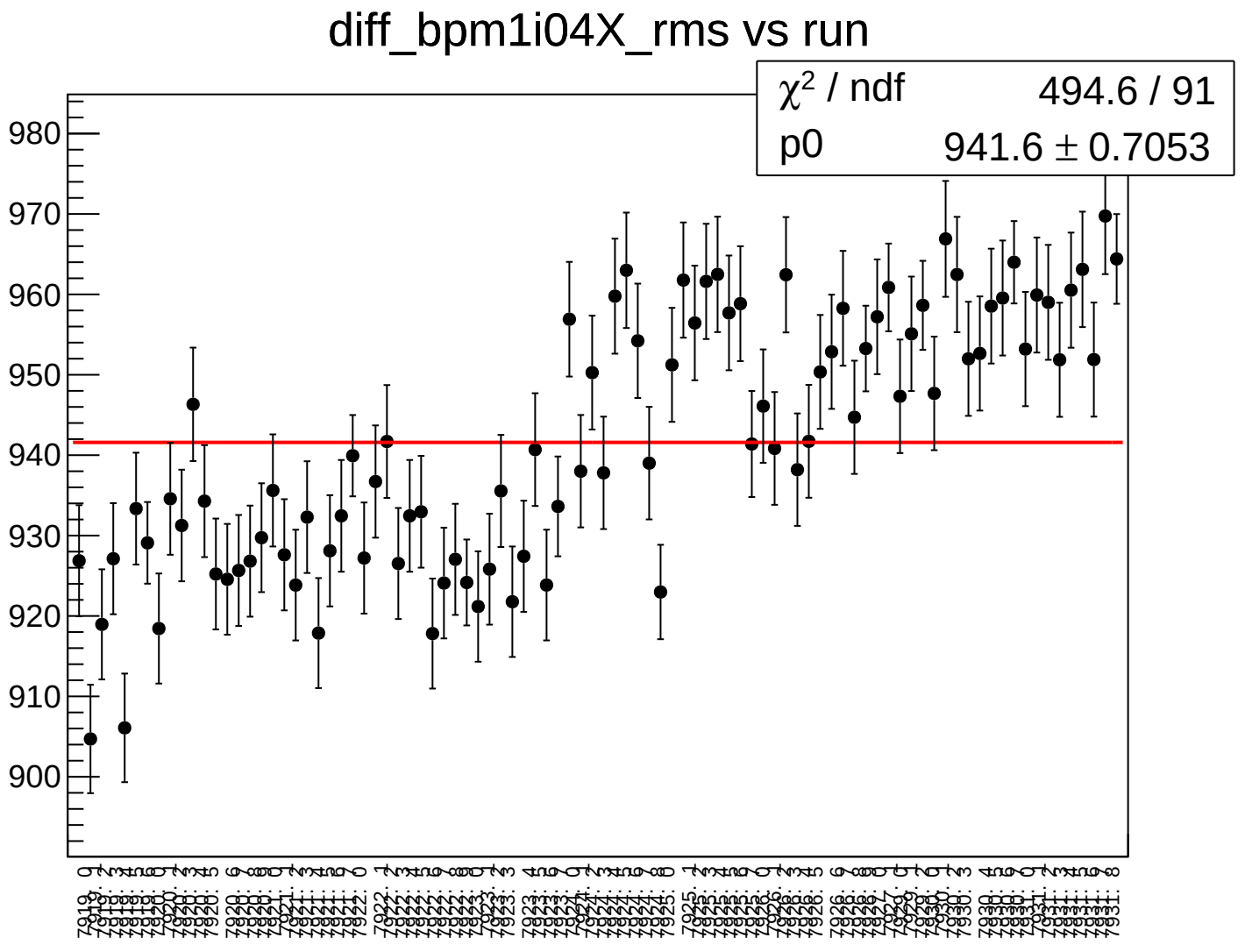

diff_bpm1i02Y_mean vs run
χ² / ndf 106.7 / 91
p0 10.83 ± 0.5255
pull
Entries 92
Mean −421.4
Std Dev 0

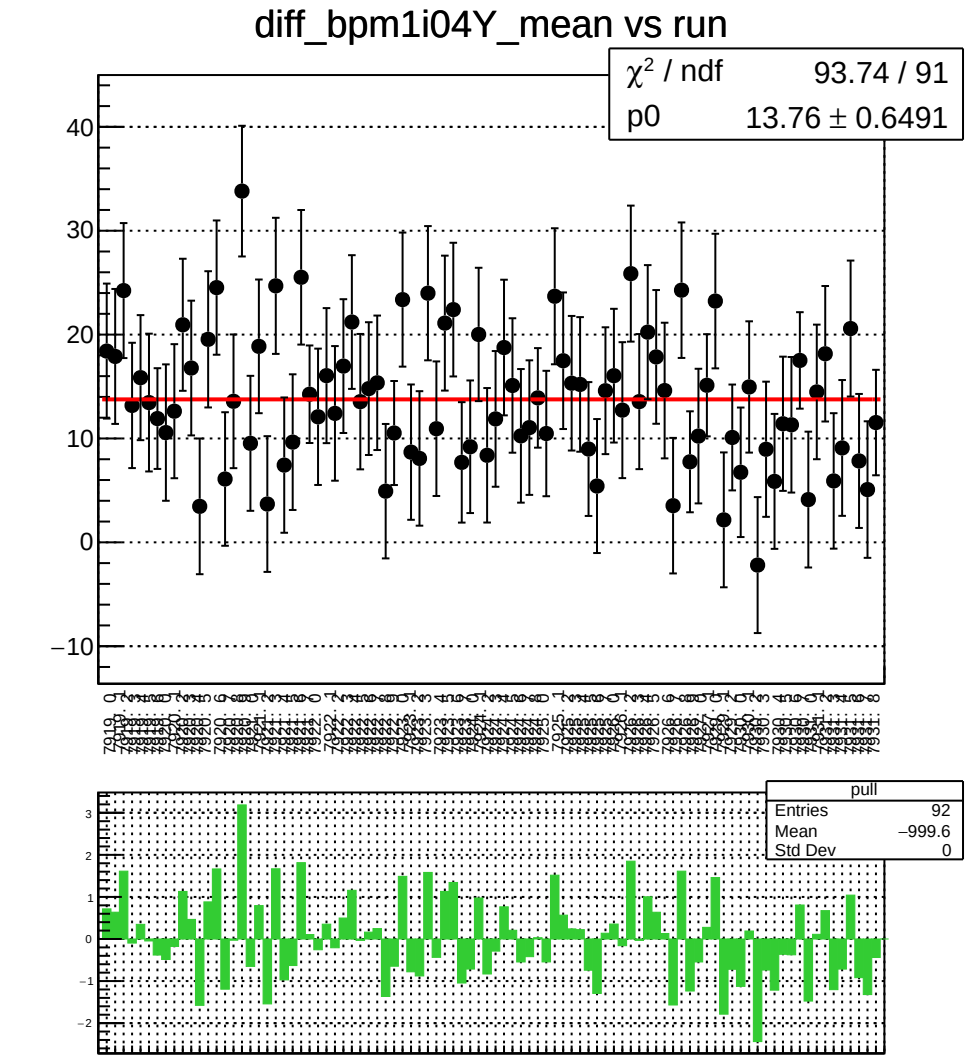

pull1D
Entries 92
Mean 0.007979
Std Dev 1.077

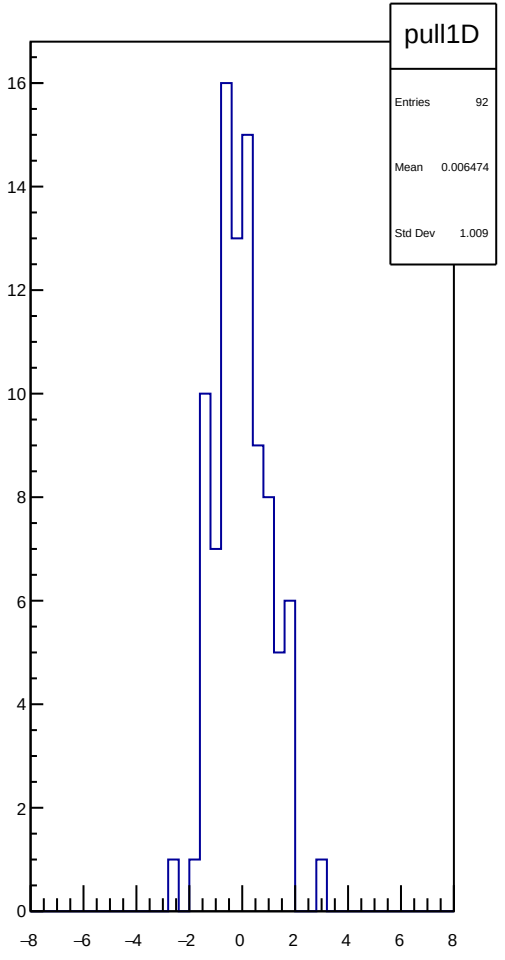

diff_bpm1i02Y_rms vs run
χ² / ndf 138 / 91
p0 496.1 ± 0.3716
510
505
500
495
490
485

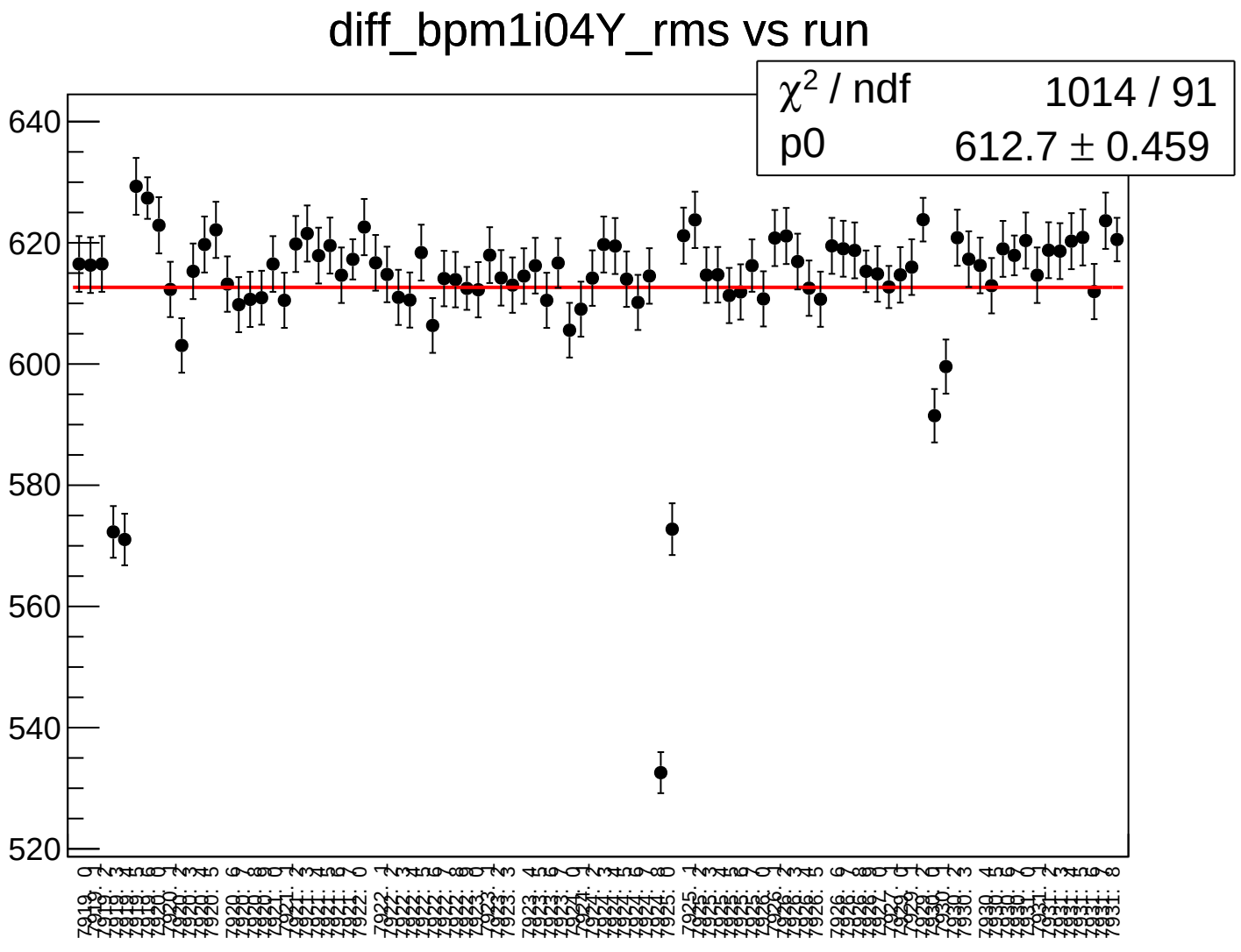

diff_bpm1i04X_mean vs run
χ² / ndf 80.77 / 91
p0 13.5 ± 0.9974
pull
Entries 92
Mean 1560
Std Dev 0

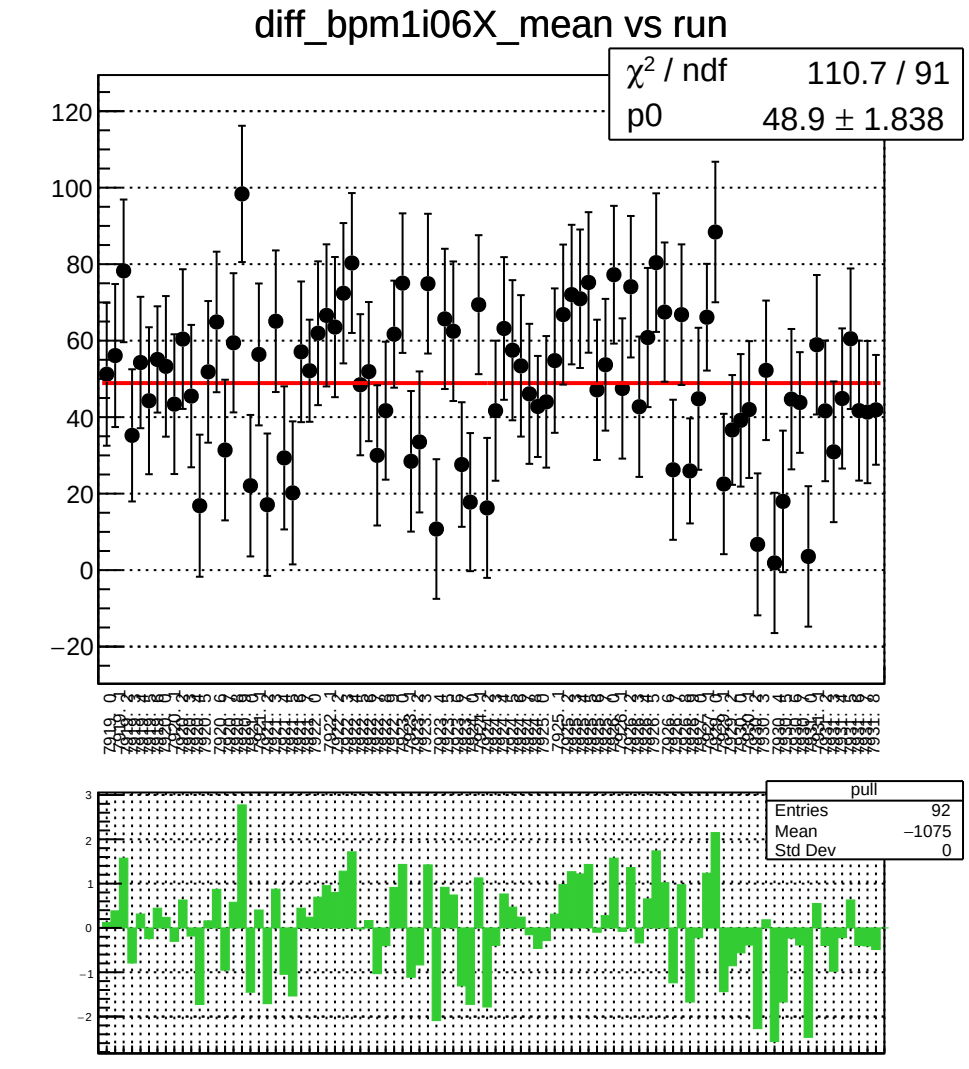

pull1D
Entries 92
Mean 0.002955
Std Dev 0.937

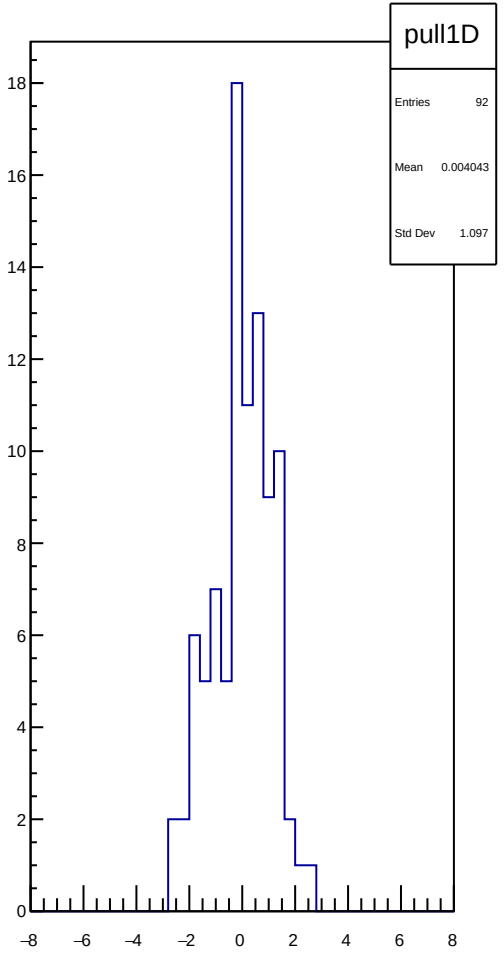

diff_bpm1i04X_rms vs run
χ² / ndf 494.6 / 91
p0 941.6 ± 0.7053
980
970
960
950
940
930
920
910
900

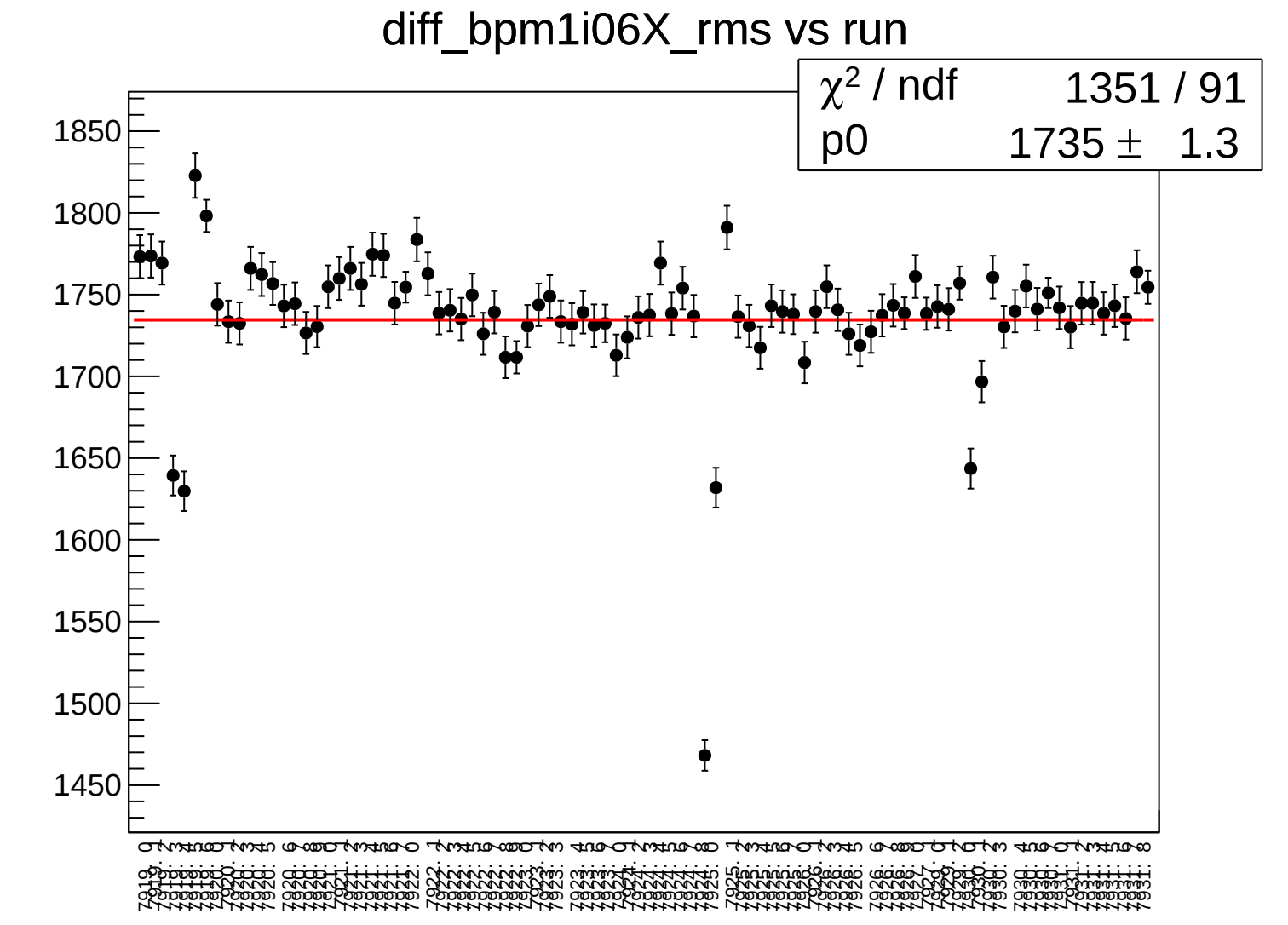

diff_bpm1i04Y_mean vs run
χ² / ndf 93.74 / 91
p0 13.76 ± 0.6491
pull
Entries 92
Mean −999.6
Std Dev 0

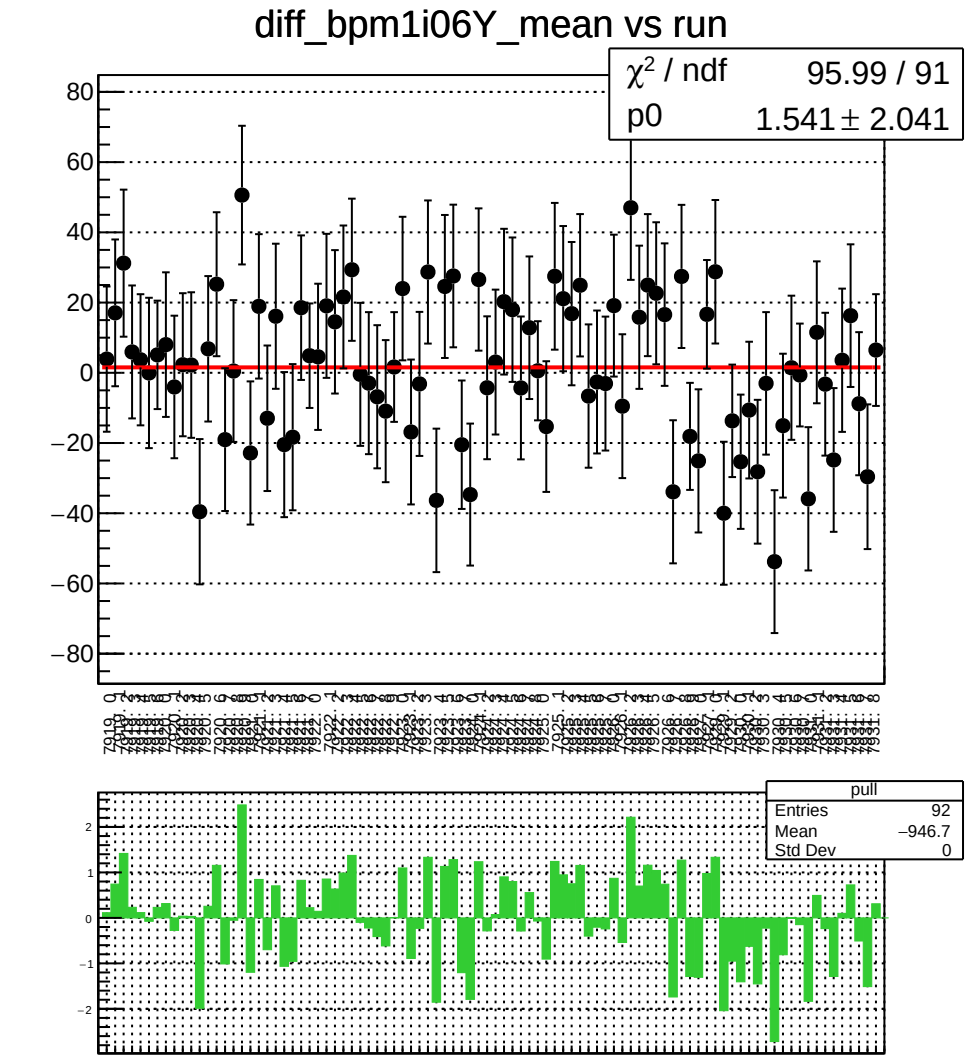

pull1D
Entries 92
Mean 0.006474
Std Dev 1.009

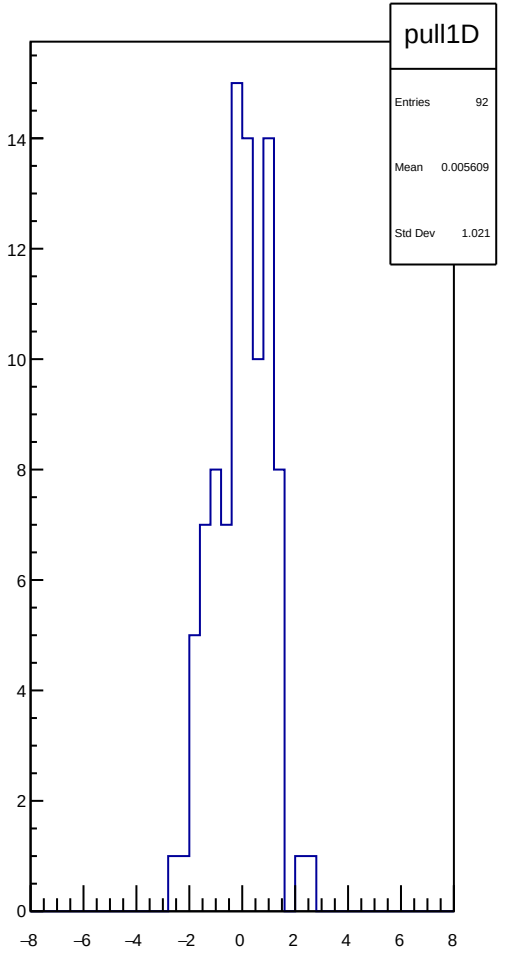

diff_bpm1i04Y_rms vs run
χ² / ndf 1014 / 91
p0 612.7 ± 0.459
640
620
600
580
560
540
520

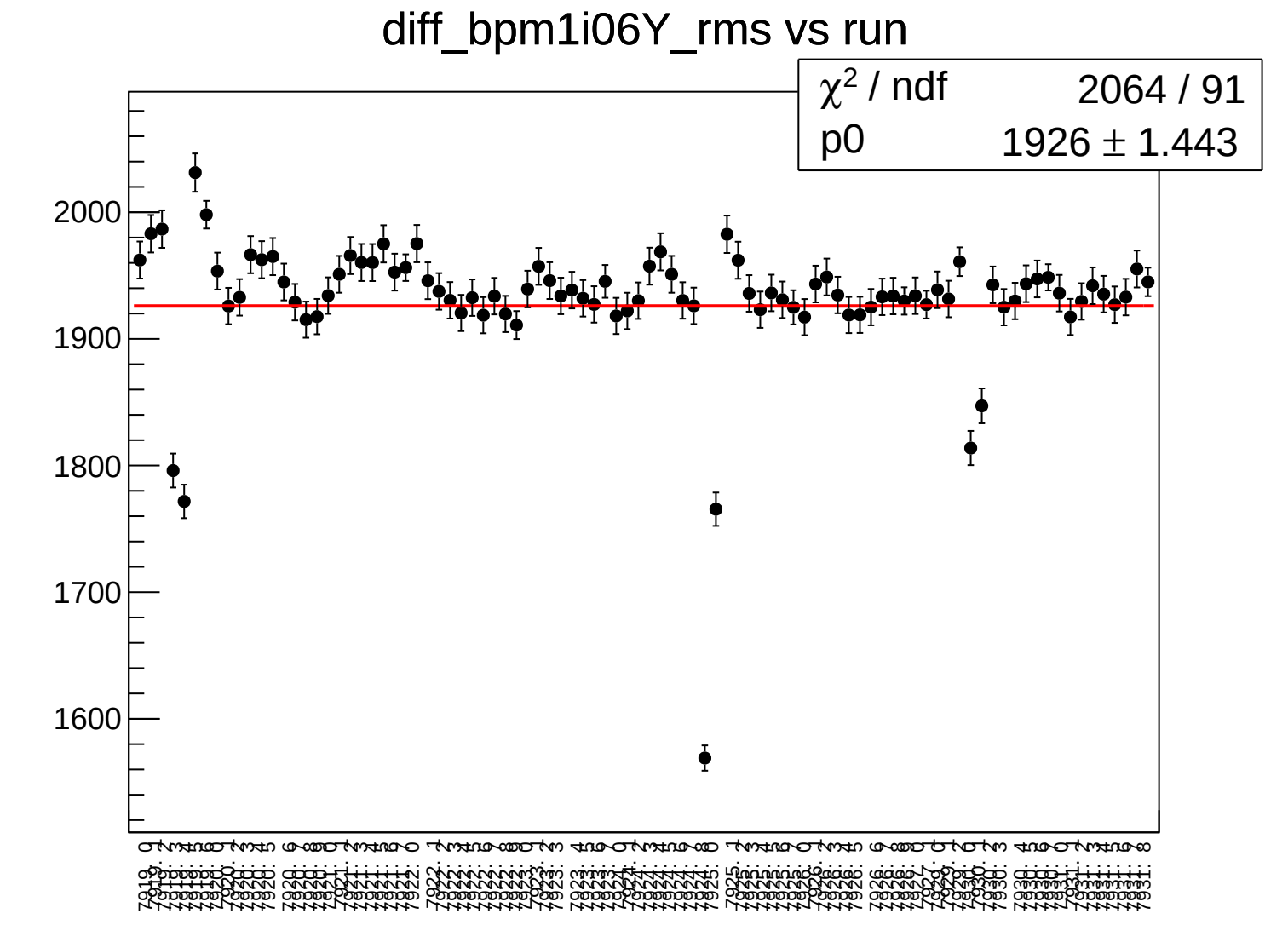

diff_bpm1i06X_mean vs run
χ^2 / ndf 110.7 / 91
p0 48.9 ± 1.838
pull
Entries 92
Mean −1075
Std Dev 0

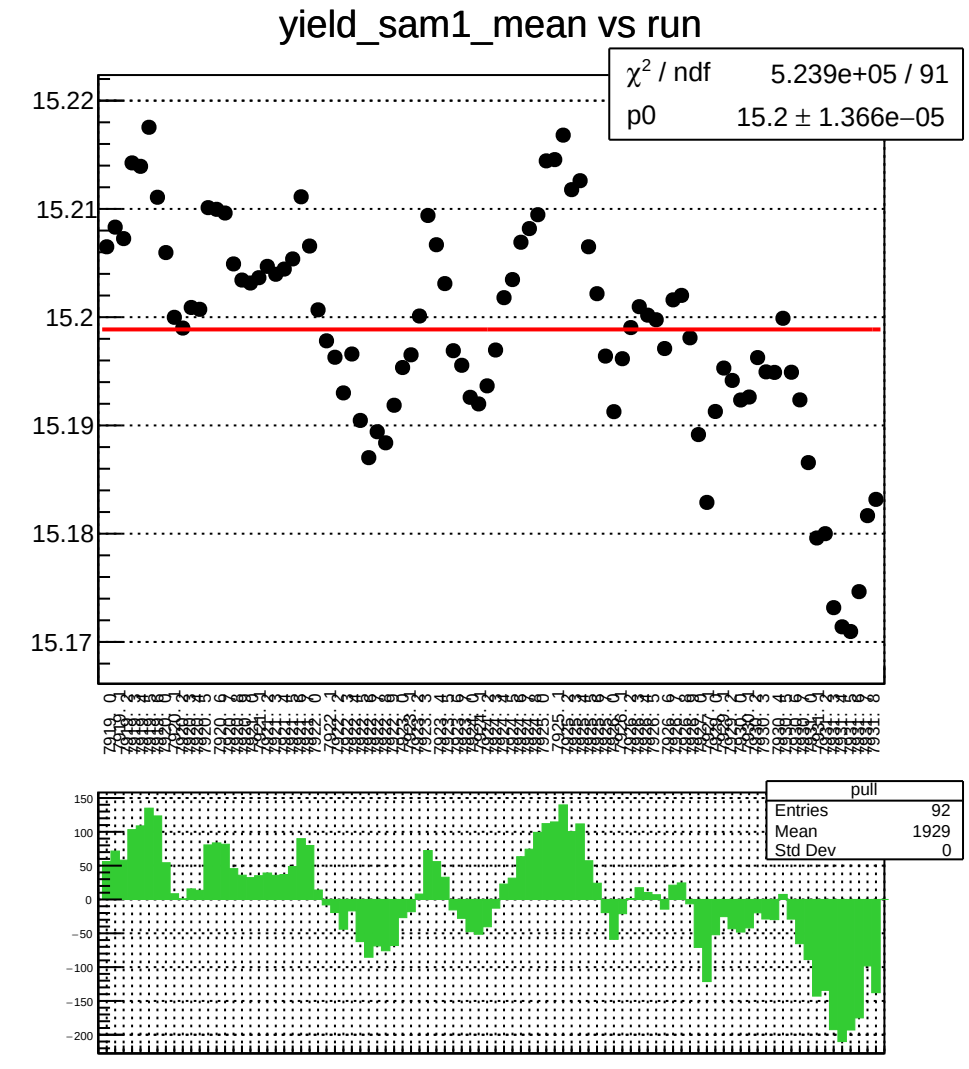

pull1D
Entries 92
Mean 0.004043
Std Dev 1.097

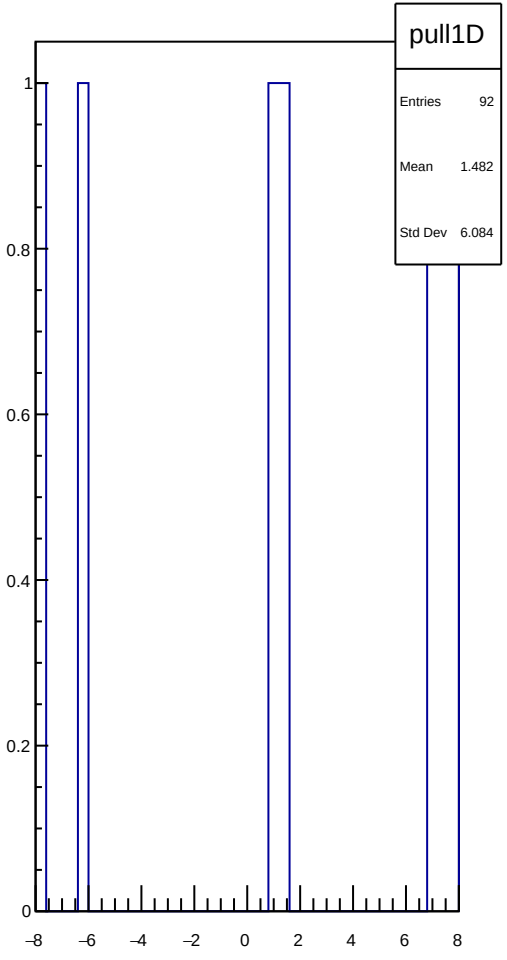

diff_bpm1i06X_rms vs run
χ² / ndf 1351 / 91
p0 1735 ± 1.3
1850
1800
1750
1700
1650
1600
1550
1500
1450

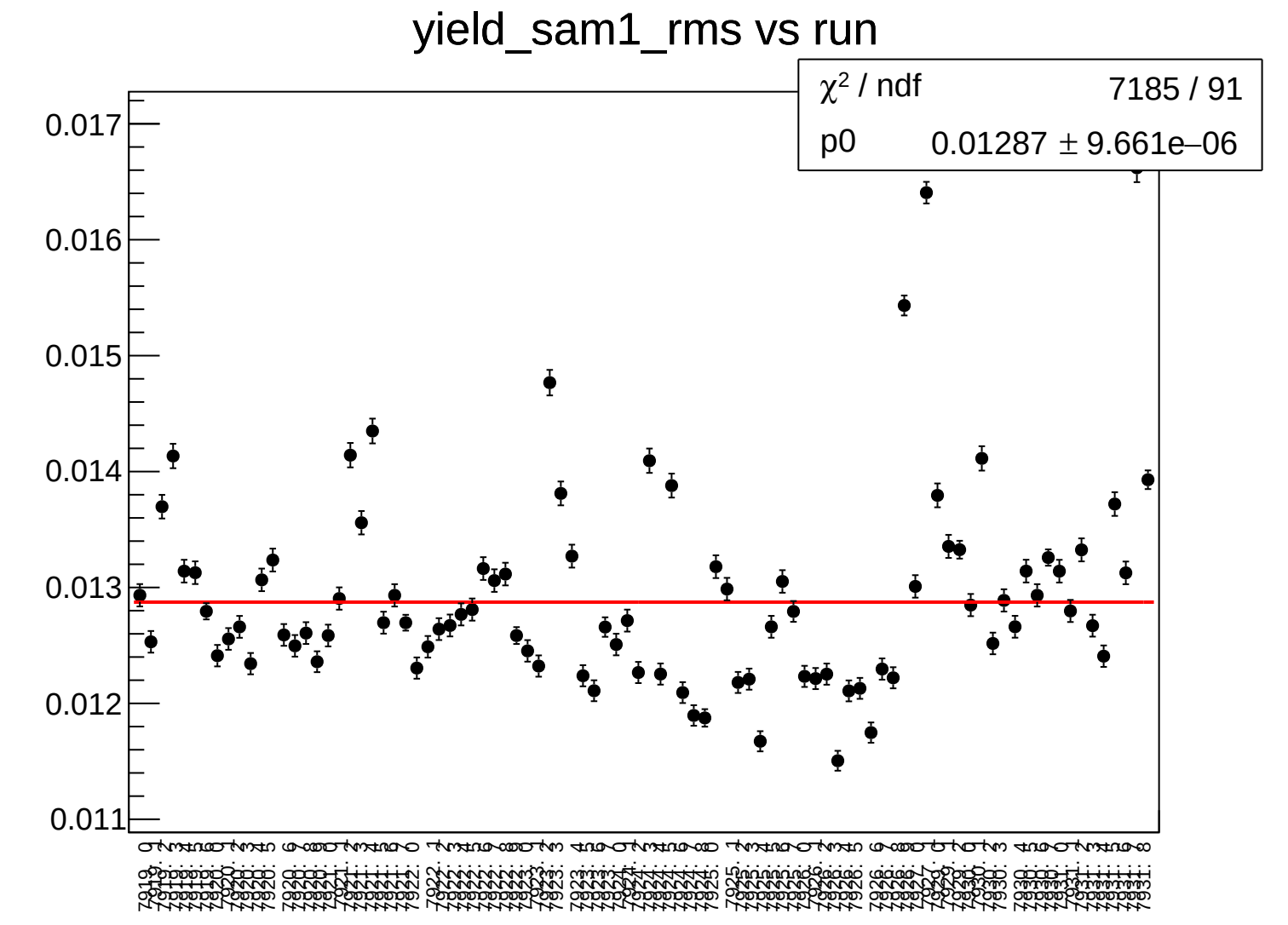

diff_bpm1i06Y_mean vs run
χ² / ndf 95.99 / 91
p0 1.541 ± 2.041
pull
Entries 92
Mean −946.7
Std Dev 0

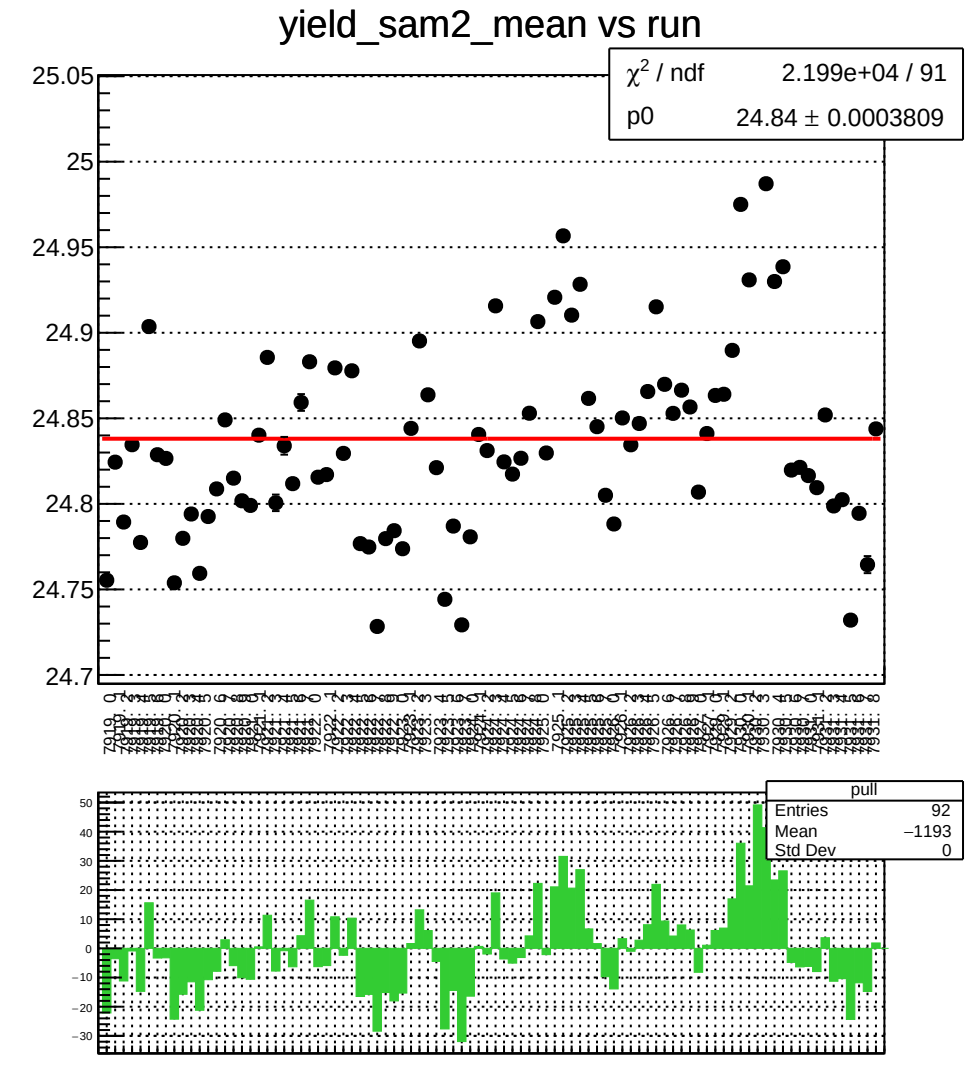

pull1D
Entries 92
Mean 0.005609
Std Dev 1.021

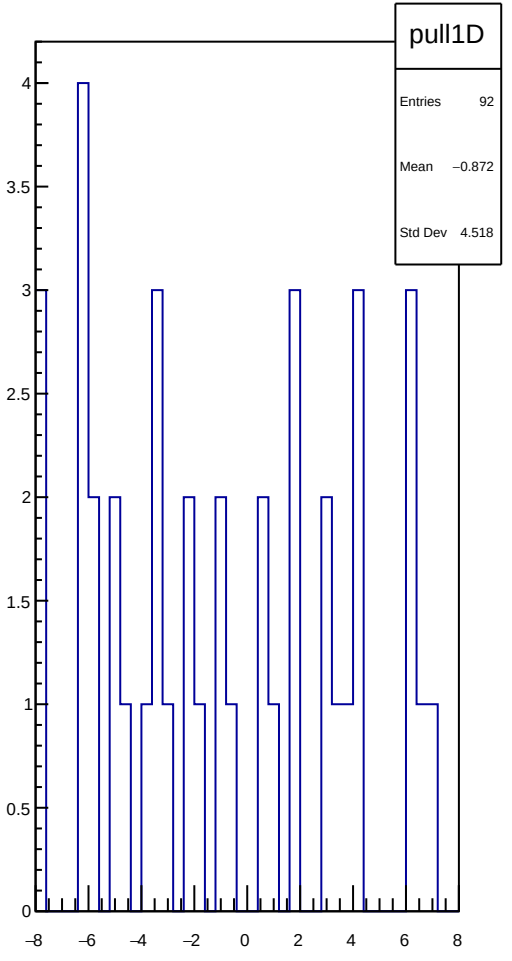

diff_bpm1i06Y_rms vs run
χ^2 / ndf 2064 / 91
p0 1926 ± 1.443
2000
1900
1800
1700
1600

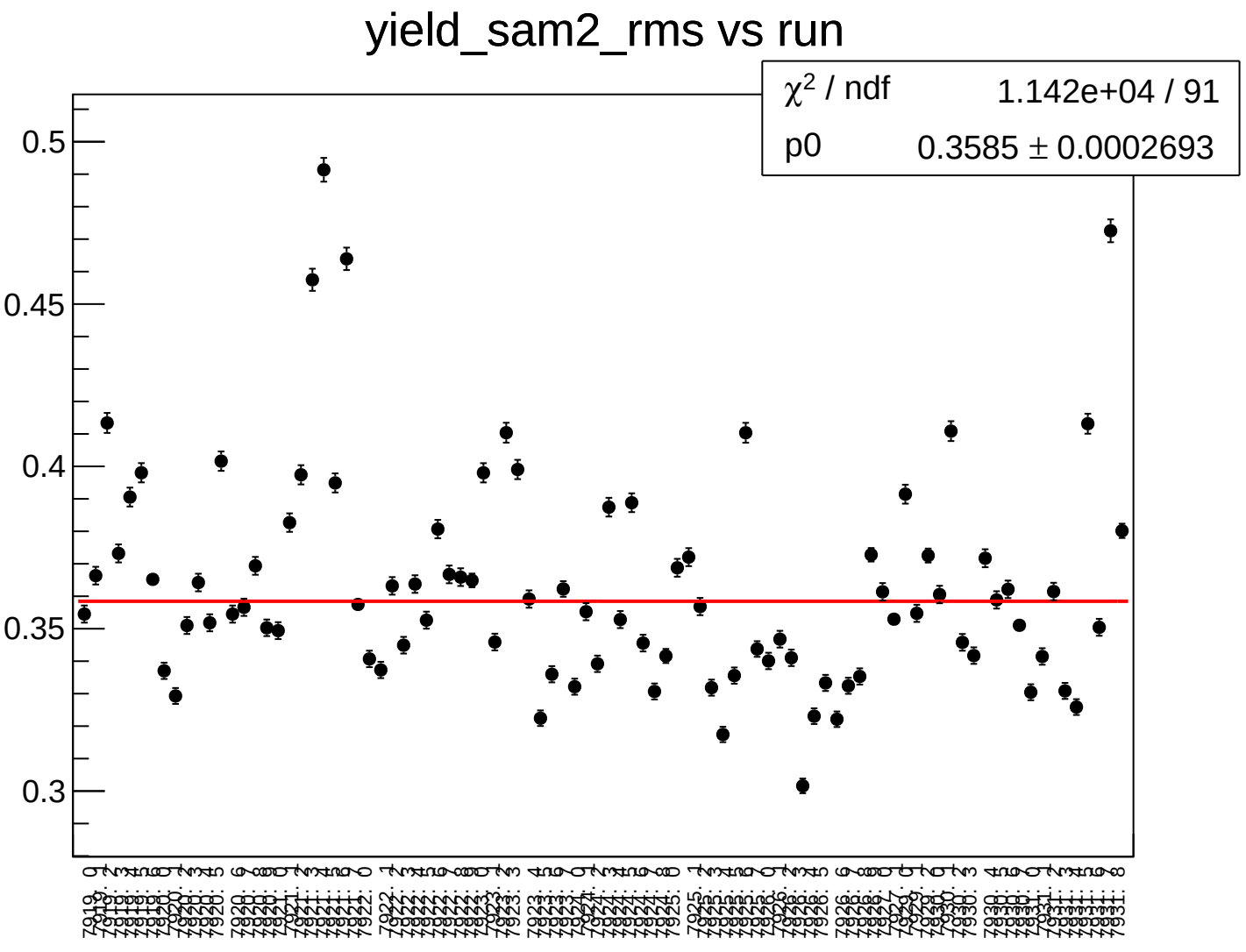

yield_sam1_mean vs run
χ² / ndf 5.239e+05 / 91
p0 15.2 ± 1.366e−05
15.22
15.21
15.2
15.19
15.18
15.17
pull
Entries 92
Mean 1929
Std Dev 0
150
100
50
0
−50
−100
−150
−200

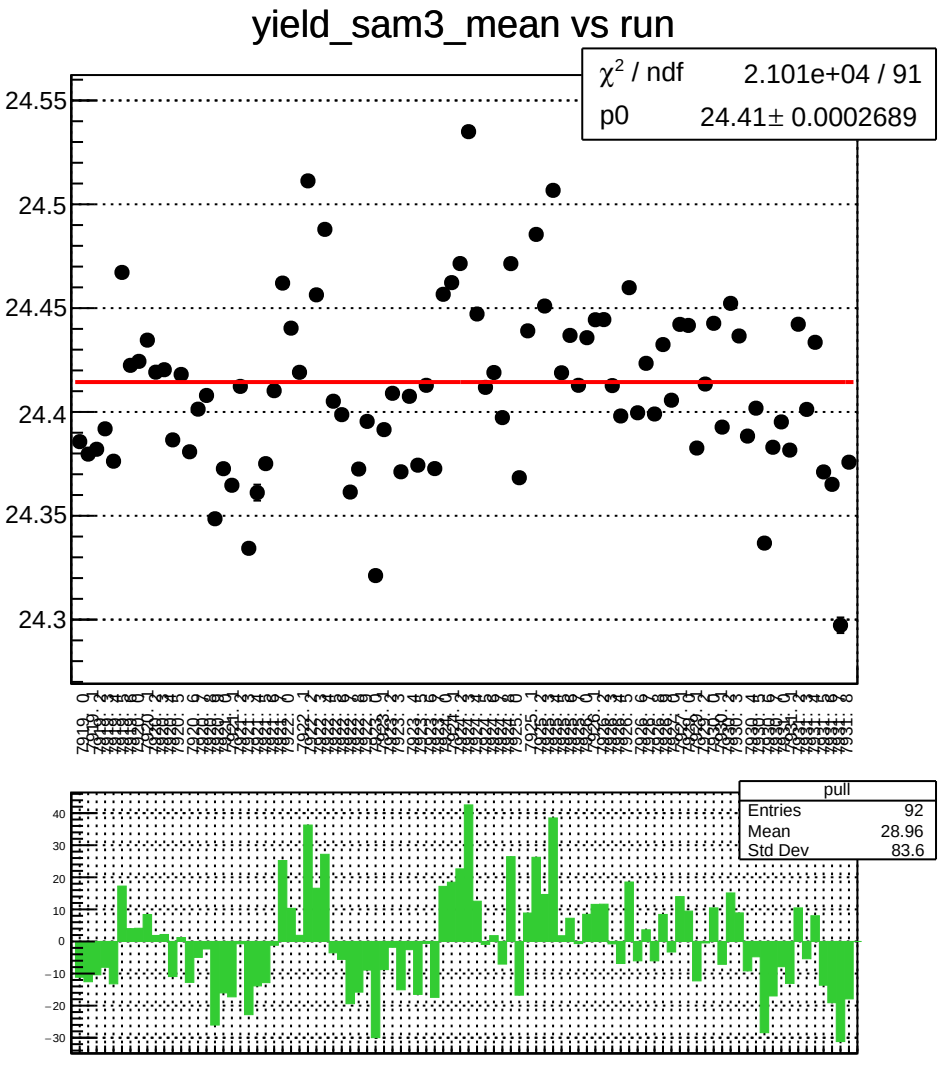

pull1D
Entries 92
Mean 1.482
Std Dev 6.084
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

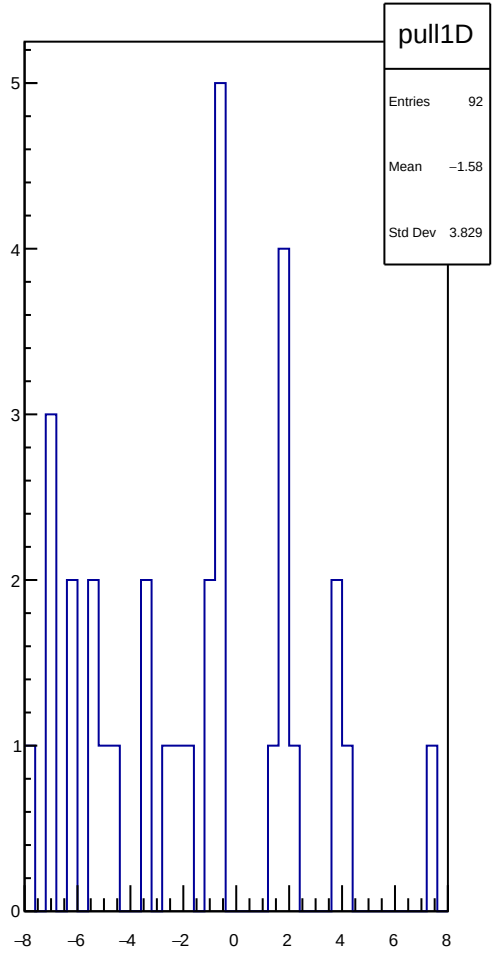

yield_sam1_rms vs run
χ² / ndf 7185 / 91
p0 0.01287 ± 9.661e–06
0.017
0.016
0.015
0.014
0.013
0.012
0.011

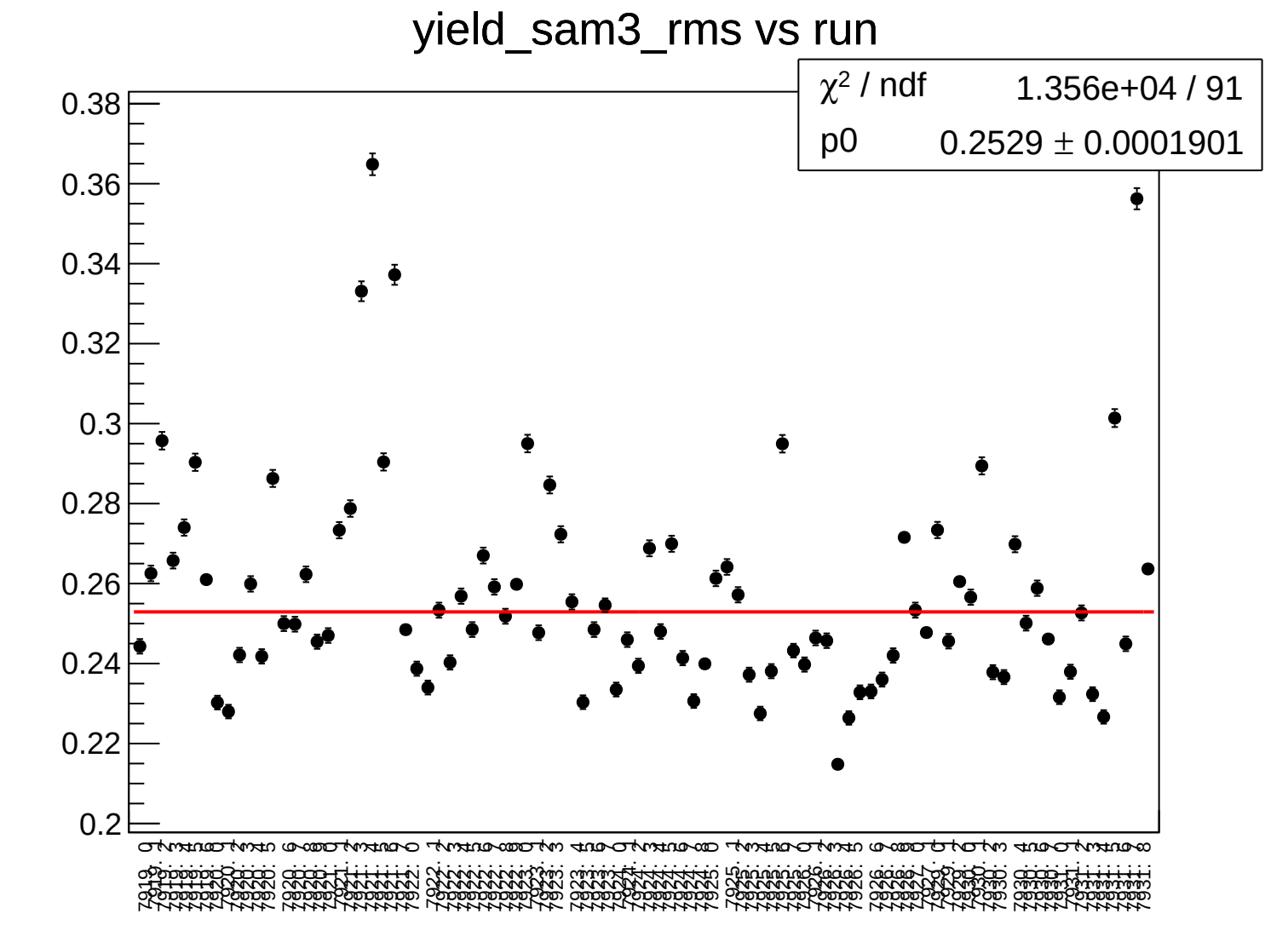

yield_sam2_mean vs run
χ² / ndf 2.199e+04 / 91
p0 24.84 ± 0.0003809
pull
Entries 92
Mean −1193
Std Dev 0

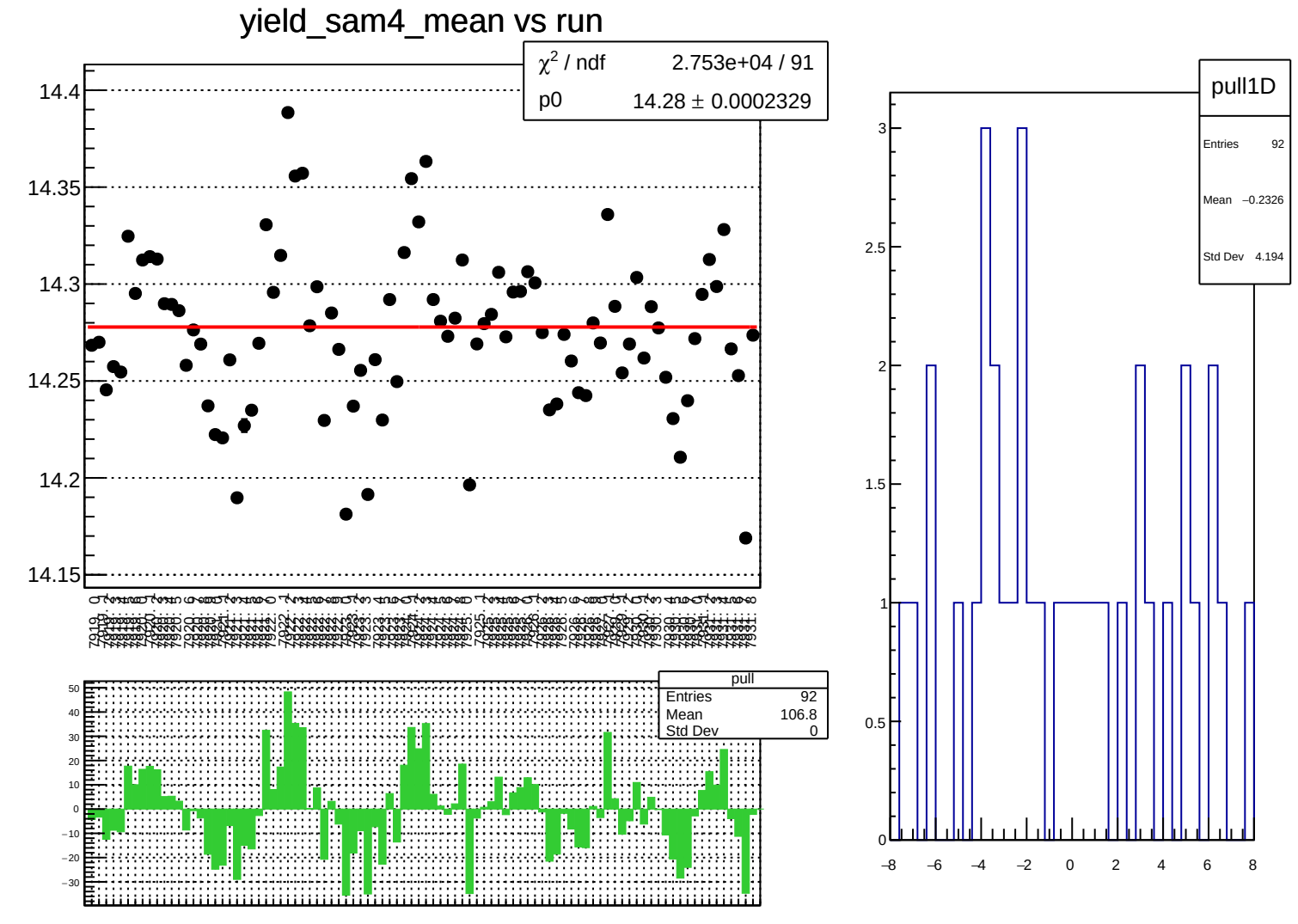

pull1D
Entries 92
Mean −0.872
Std Dev 4.518

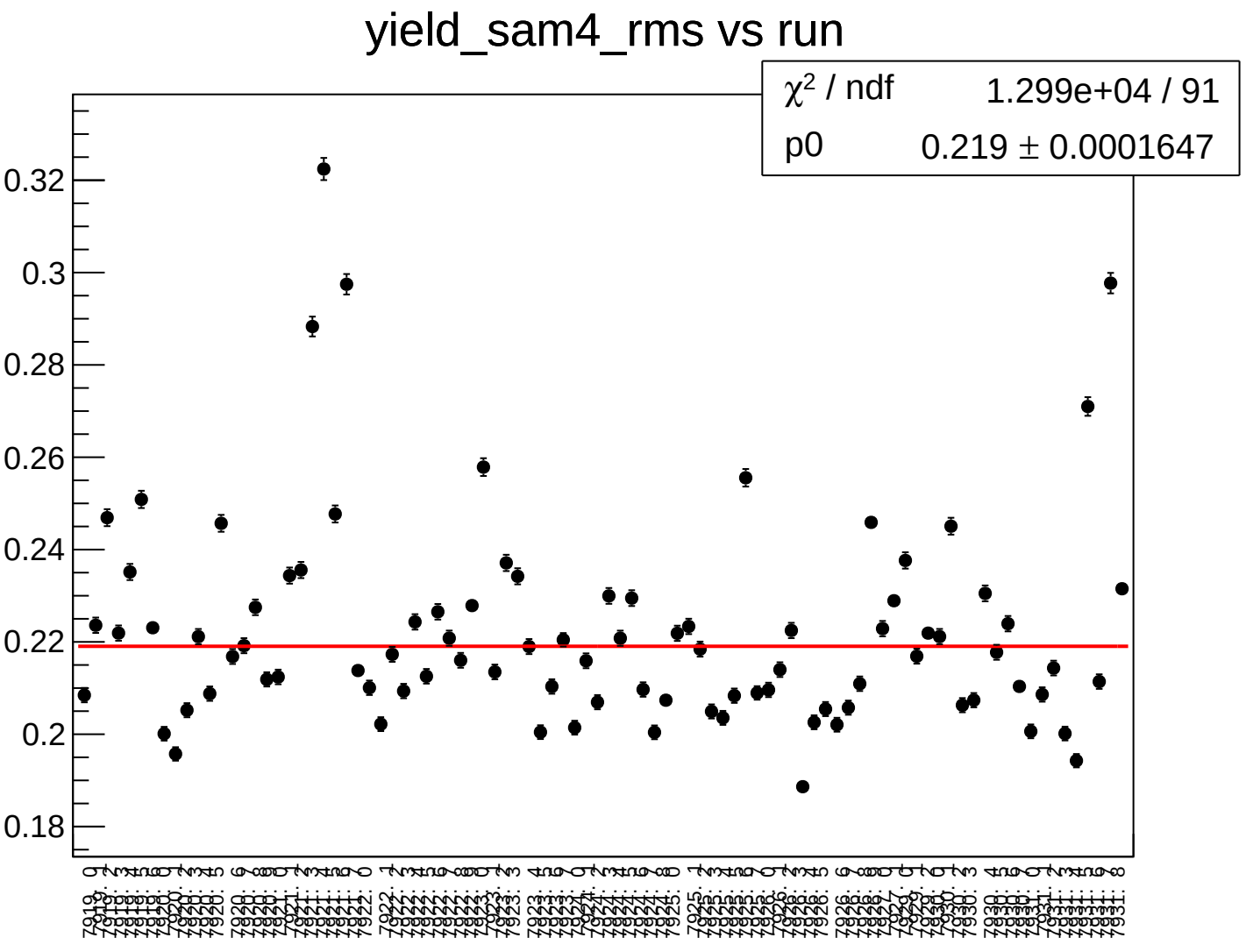

yield_sam2_rms vs run
χ² / ndf 1.142e+04 / 91
p0 0.3585 ± 0.0002693
0.5
0.45
0.4
0.35
0.3

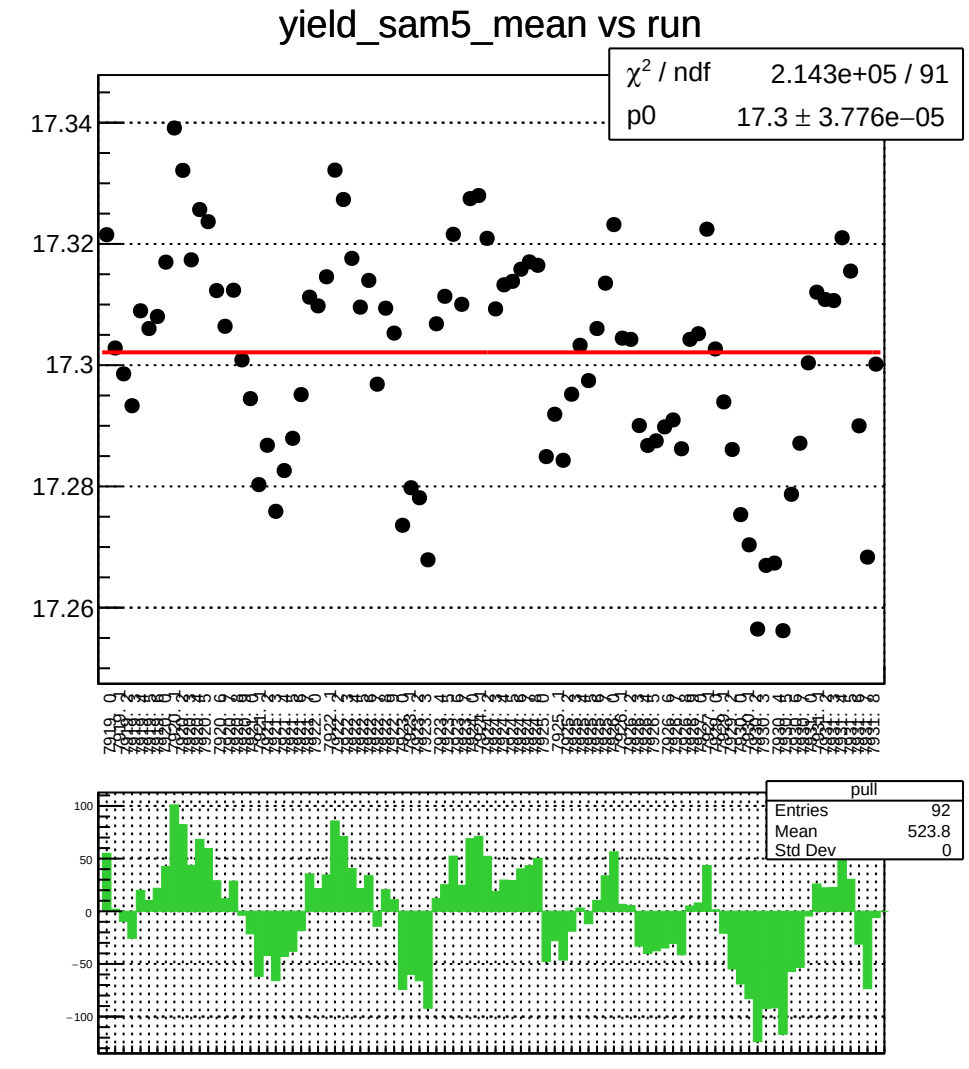

yield_sam3_mean vs run
χ² / ndf 2.101e+04 / 91
p0 24.41± 0.0002689
24.55
24.5
24.45
24.4
24.35
24.3
pull
Entries 92
Mean 28.96
Std Dev 83.6
40
30
20
10
0
−10
−20
−30

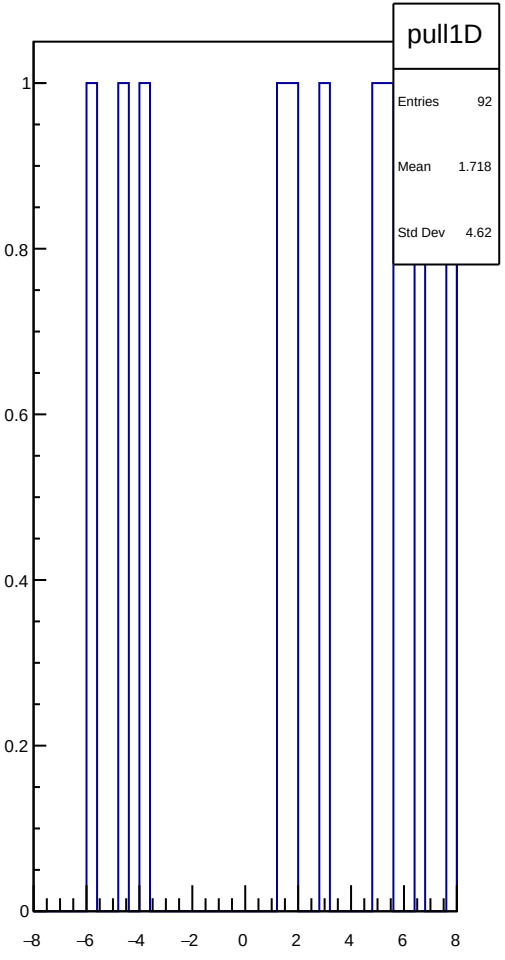

pull1D
Entries 92
Mean −1.58
Std Dev 3.829
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

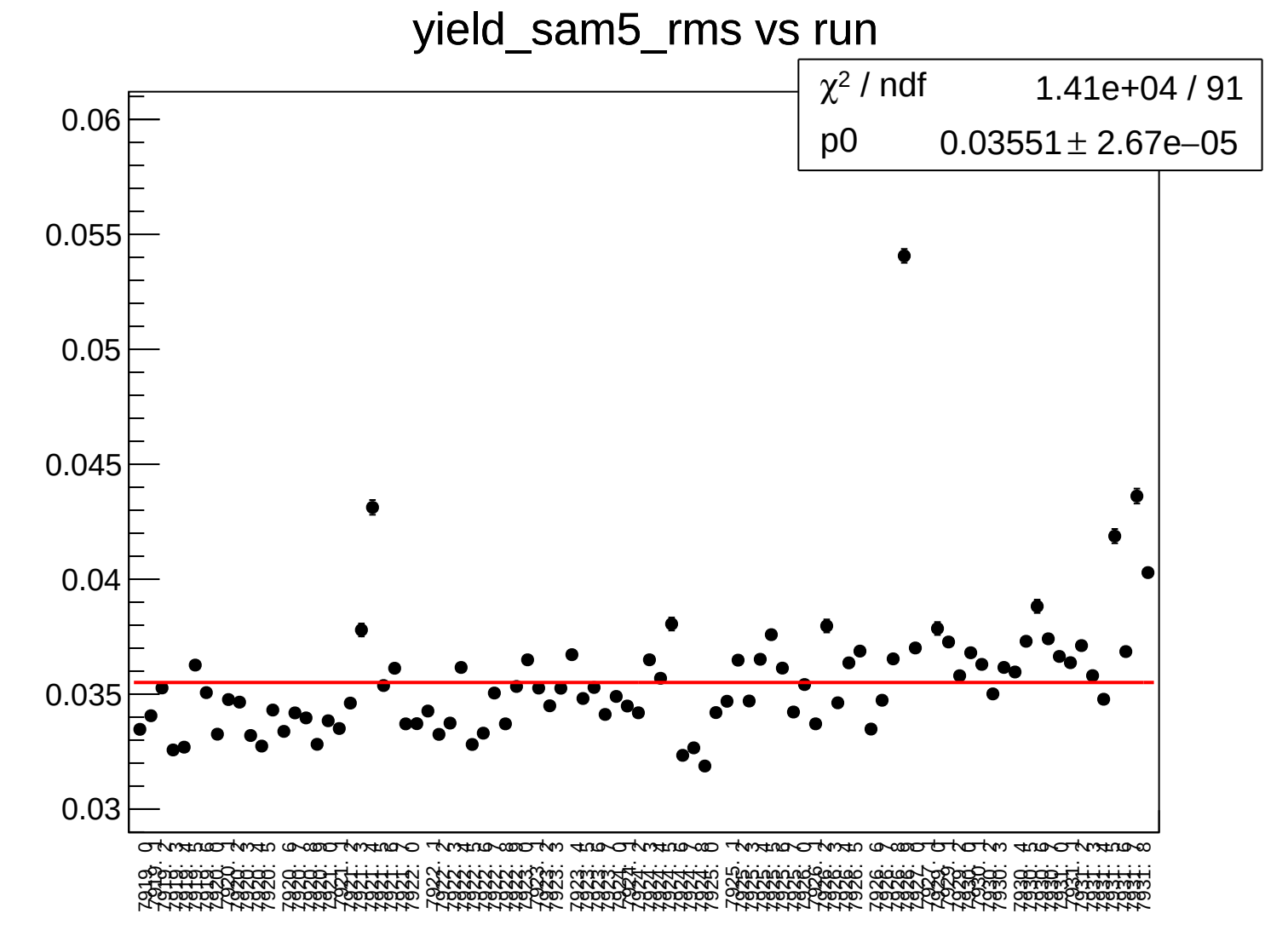

yield_sam3_rms vs run
χ² / ndf 1.356e+04 / 91
p0 0.2529 ± 0.0001901
0.38
0.36
0.34
0.32
0.3
0.28
0.26
0.24
0.22
0.2

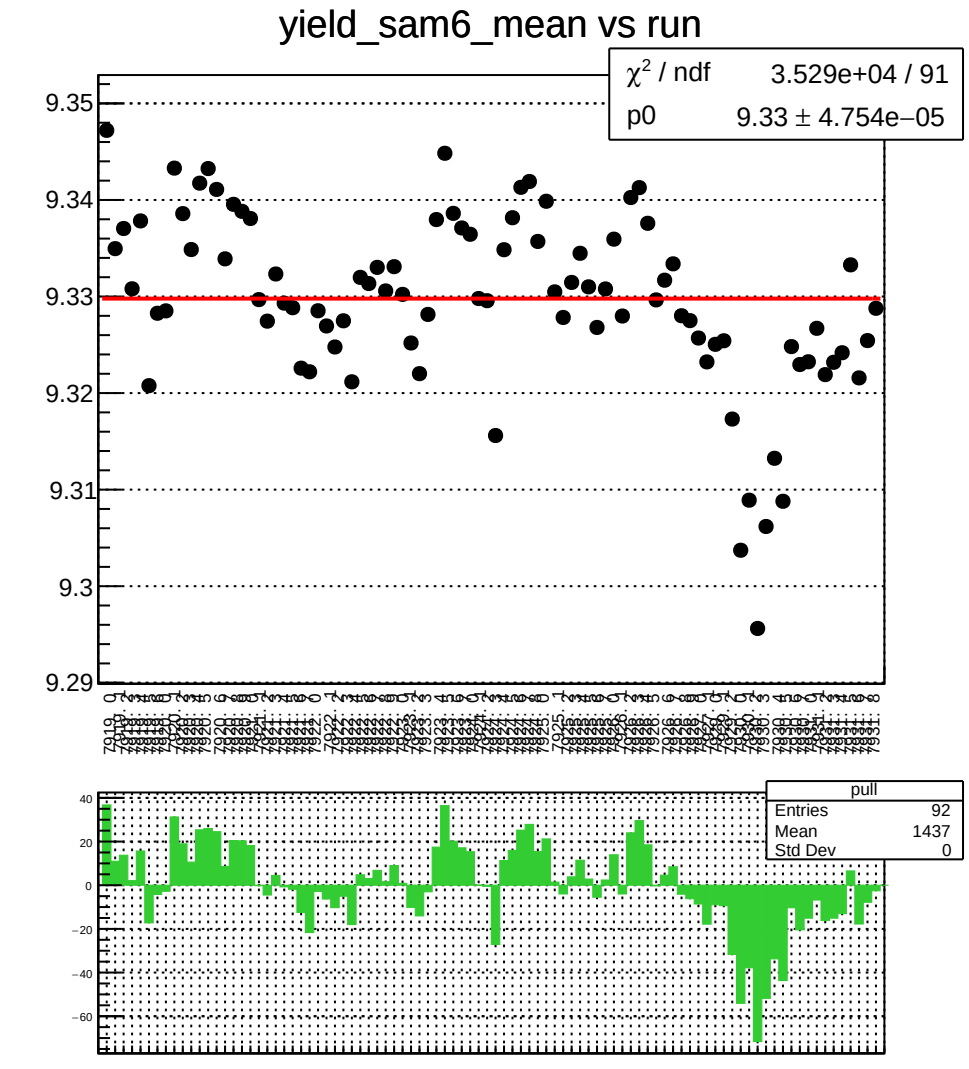

yield_sam4_mean vs run
χ² / ndf 2.753e+04 / 91
p0 14.28 ± 0.0002329
14.4
14.35
14.3
14.25
14.2
14.15
pull
Entries 92
Mean 106.8
Std Dev 0
50
40
30
20
10
0
−10
−20
−30
pull1D
Entries 92
Mean −0.2326
Std Dev 4.194
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

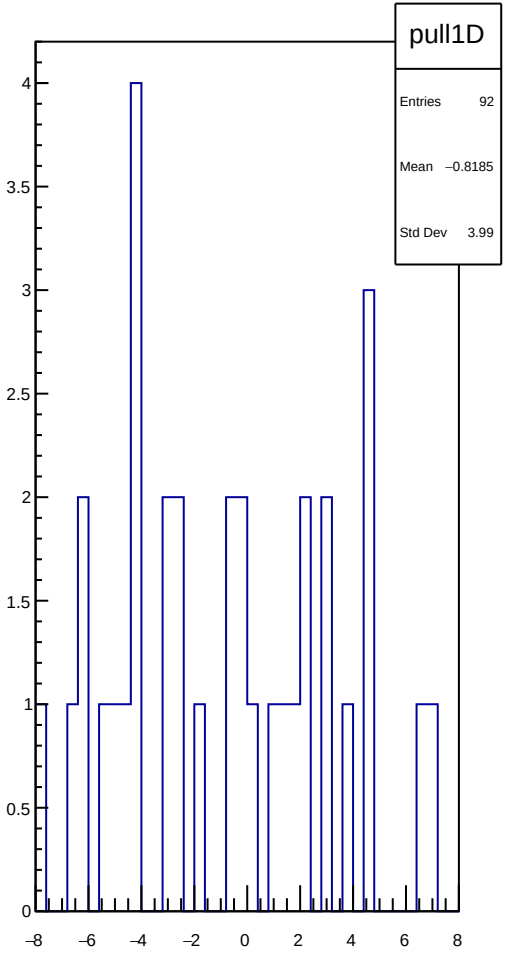

yield_sam4_rms vs run
χ² / ndf 1.299e+04 / 91
p0 0.219 ± 0.0001647
0.32
0.3
0.28
0.26
0.24
0.22
0.2
0.18

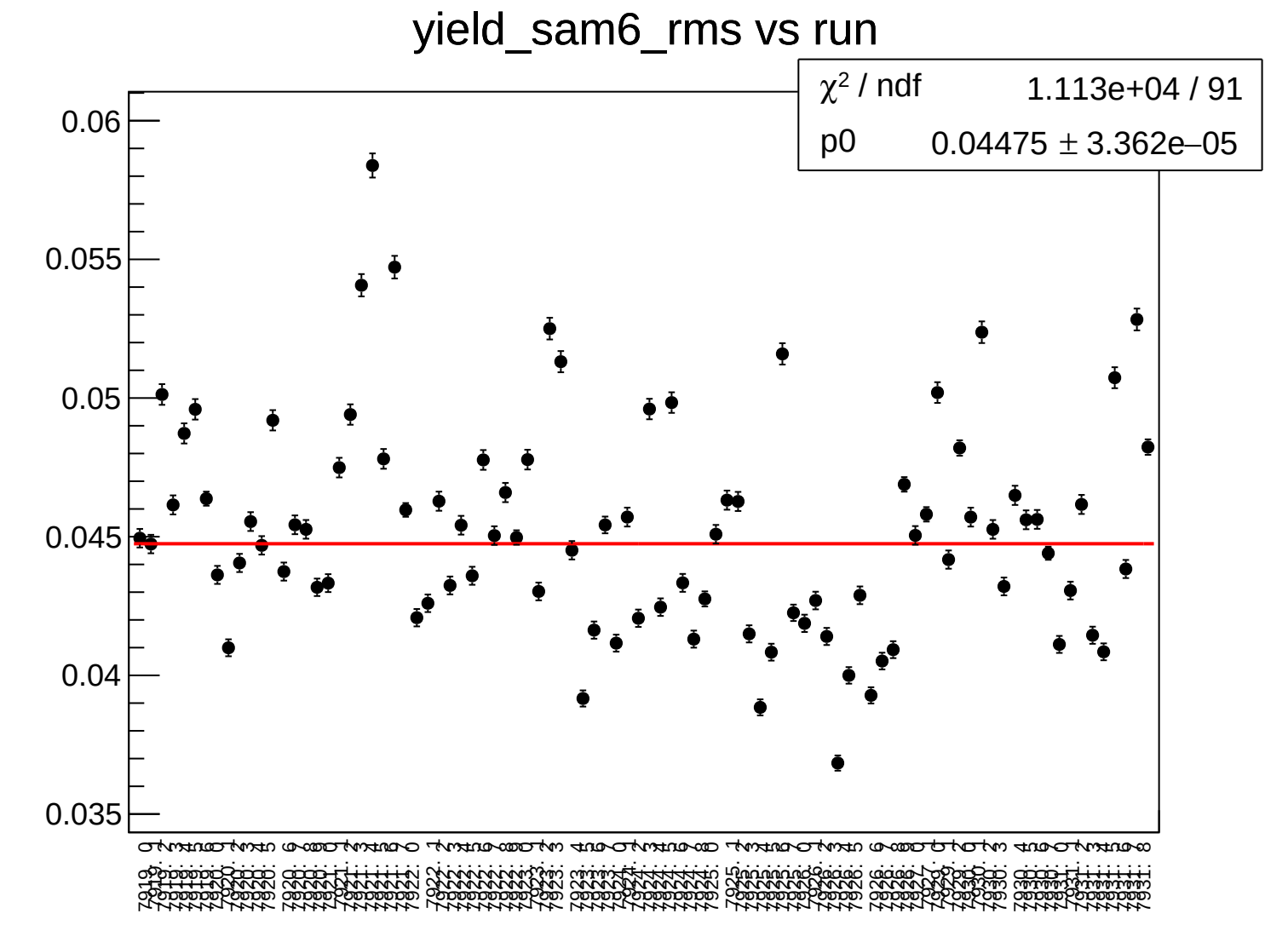

yield_sam5_mean vs run
χ² / ndf 2.143e+05 / 91
p0 17.3 ± 3.776e−05
17.34
17.32
17.3
17.28
17.26
pull
Entries 92
Mean 523.8
Std Dev 0
100
50
0
−50
−100

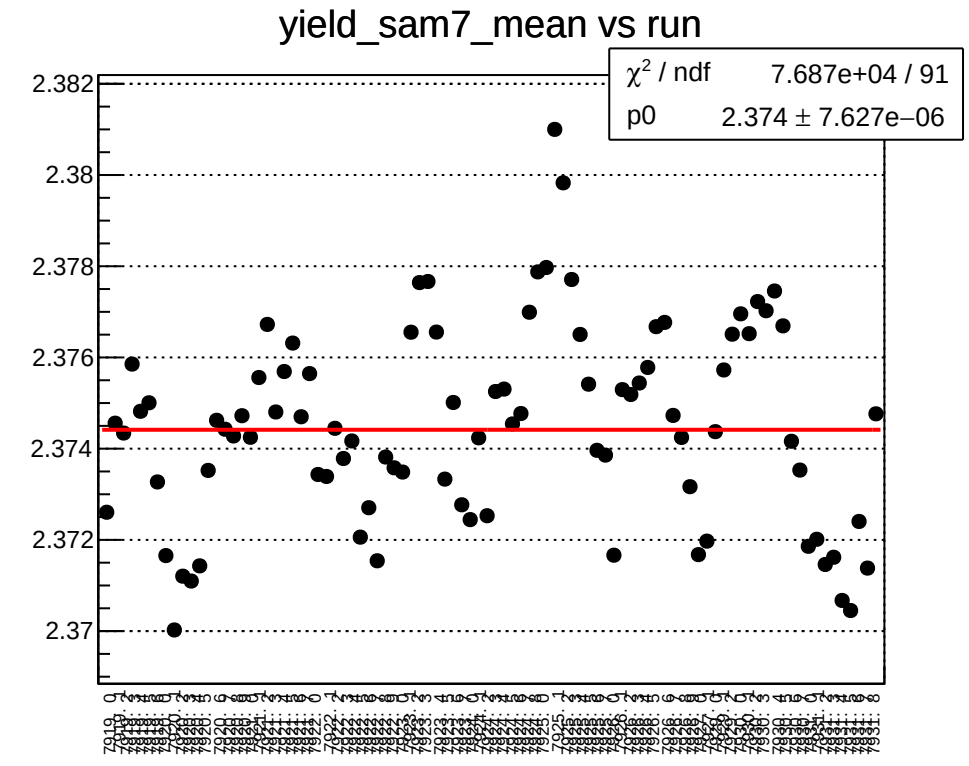

pull1D
Entries 92
Mean 1.718
Std Dev 4.62
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

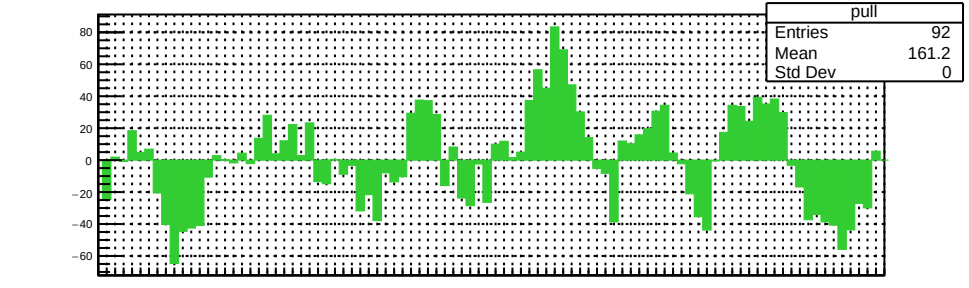

yield_sam5_rms vs run
χ² / ndf 1.41e+04 / 91
p0 0.03551 ± 2.67e−05
0.06
0.055
0.05
0.045
0.04
0.035
0.03

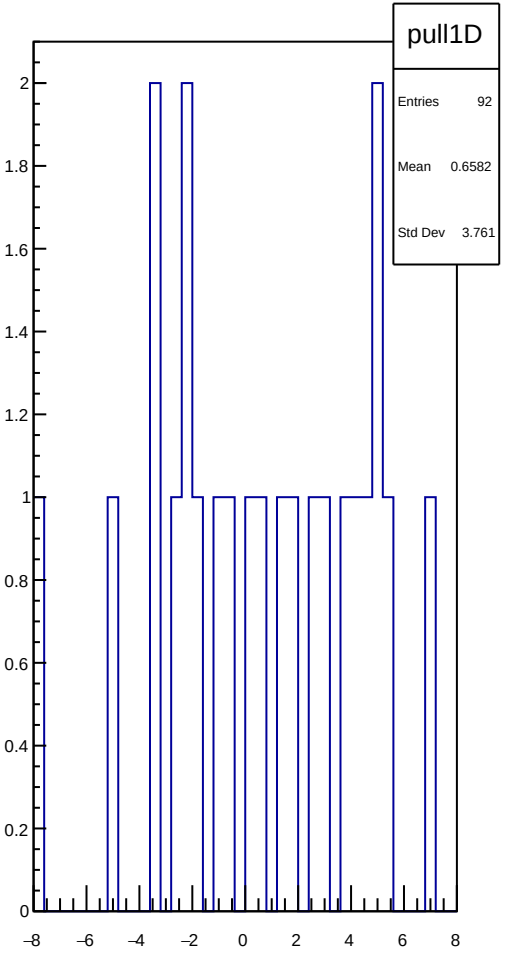

yield_sam6_mean vs run
χ² / ndf 3.529e+04 / 91
p0 9.33 ± 4.754e−05
9.35
9.34
9.33
9.32
9.31
9.3
9.29
pull
Entries 92
Mean 1437
Std Dev 0
40
20
0
−20
−40
−60

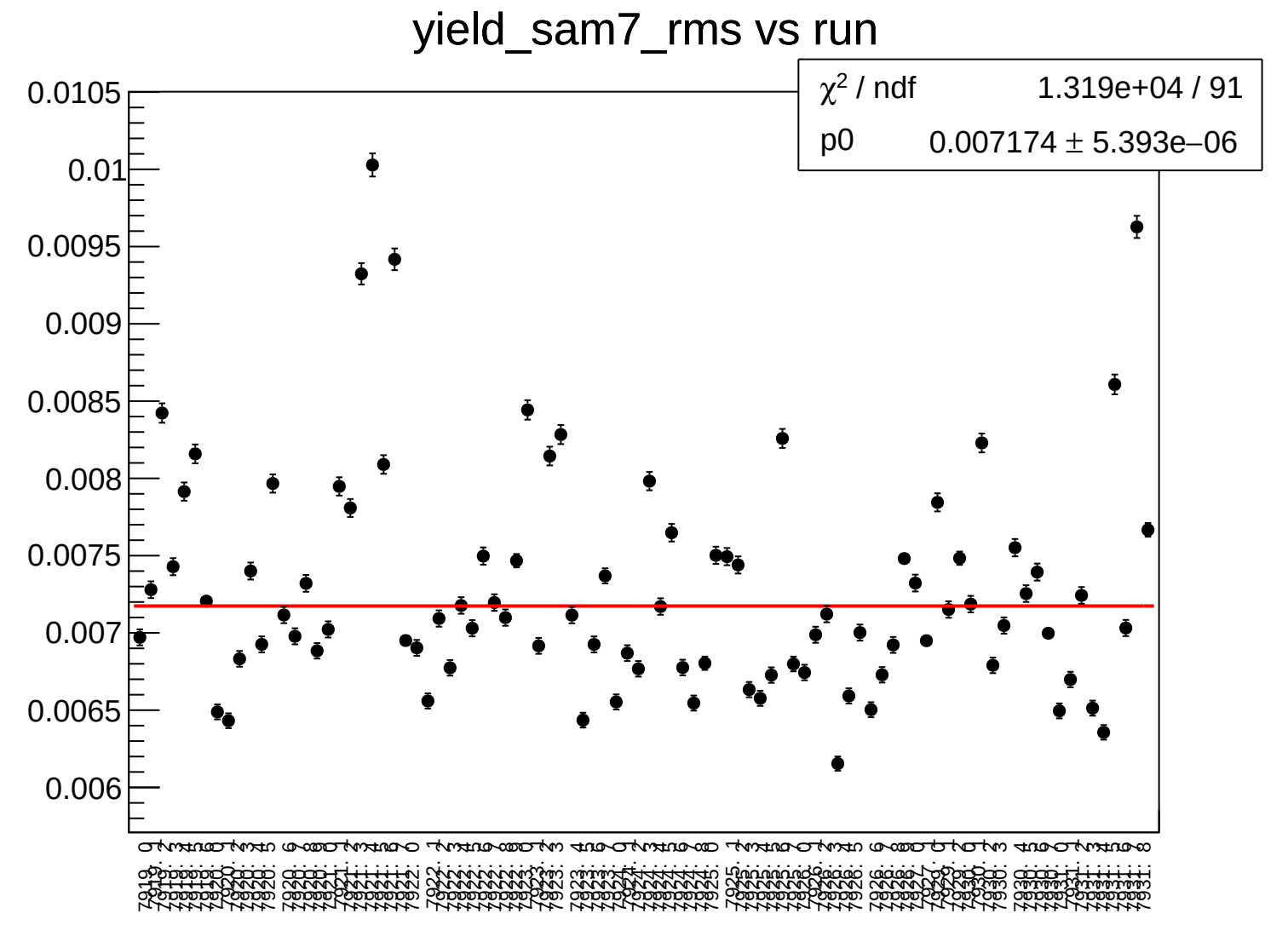

pull1D
Entries 92
Mean −0.8185
Std Dev 3.99
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

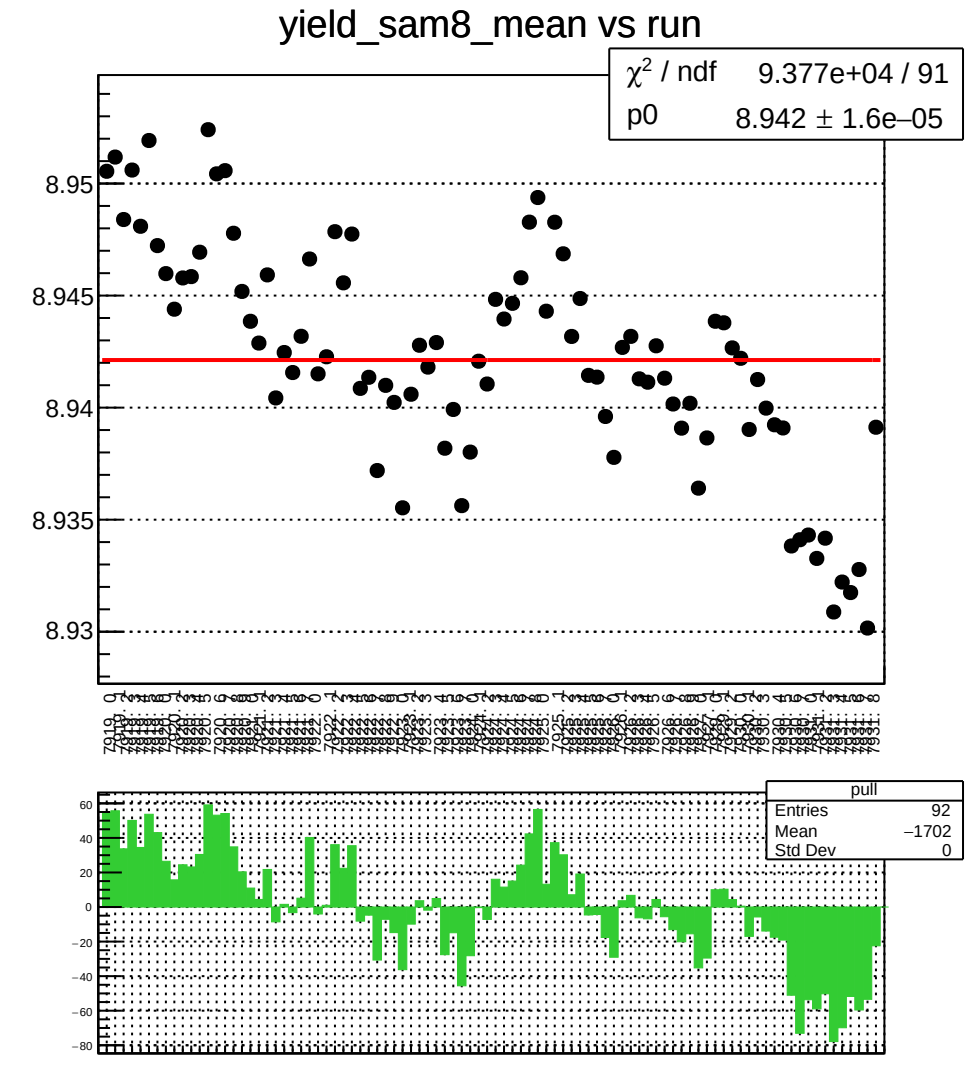

yield_sam6_rms vs run
χ² / ndf 1.113e+04 / 91
p0 0.04475 ± 3.362e–05
0.06
0.055
0.05
0.045
0.04
0.035

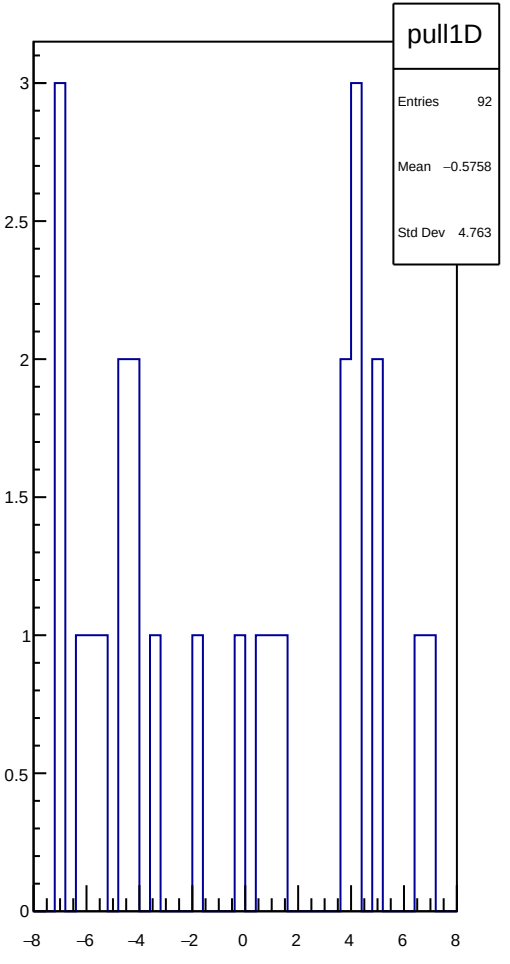

yield_sam7_mean vs run
χ² / ndf 7.687e+04 / 91
p0 2.374 ± 7.627e−06
2.382
2.38
2.378
2.376
2.374
2.372
2.37

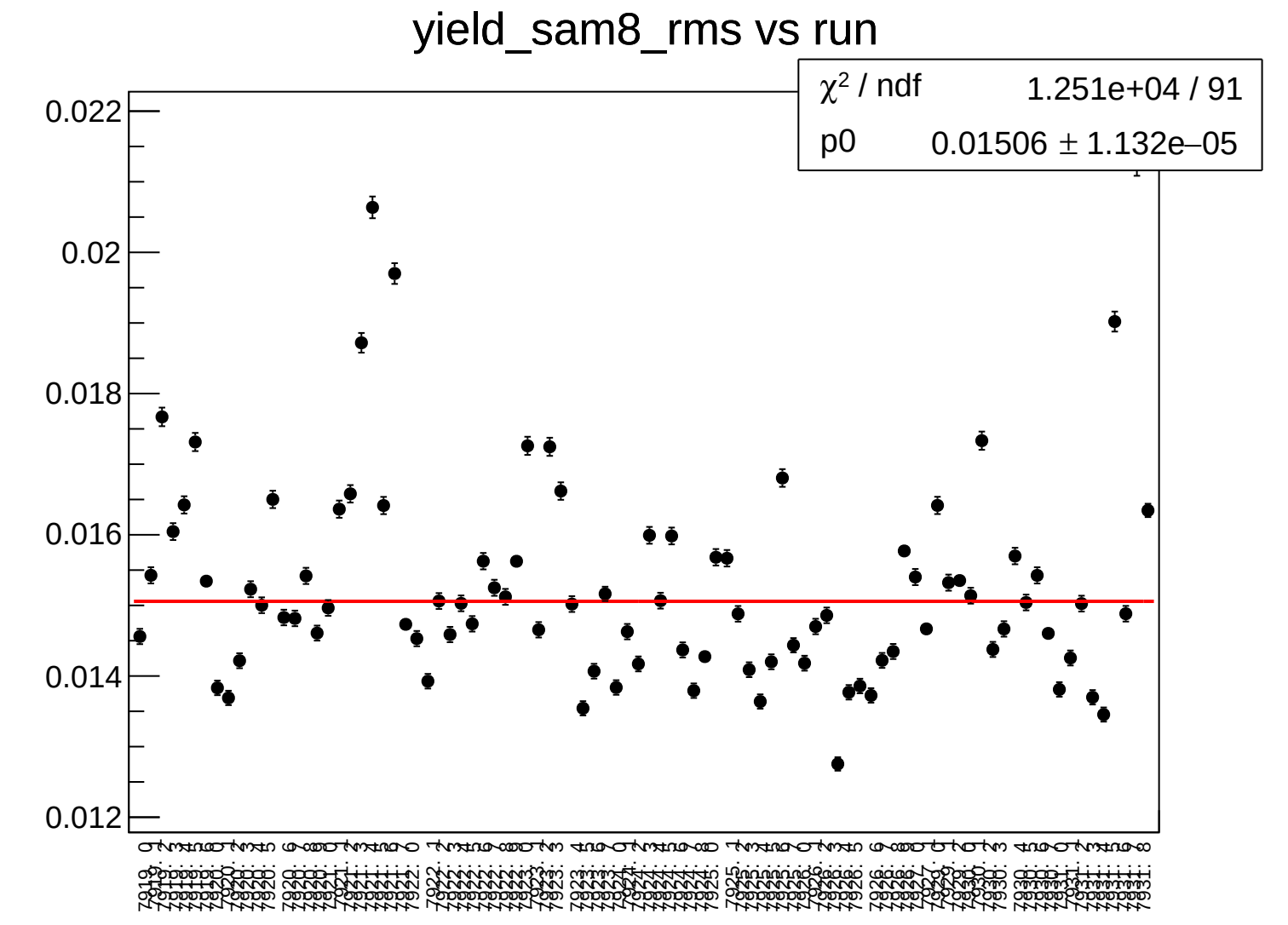

pull
Entries 92
Mean 161.2
Std Dev 0
80
60
40
20
0
−20
−40
−60

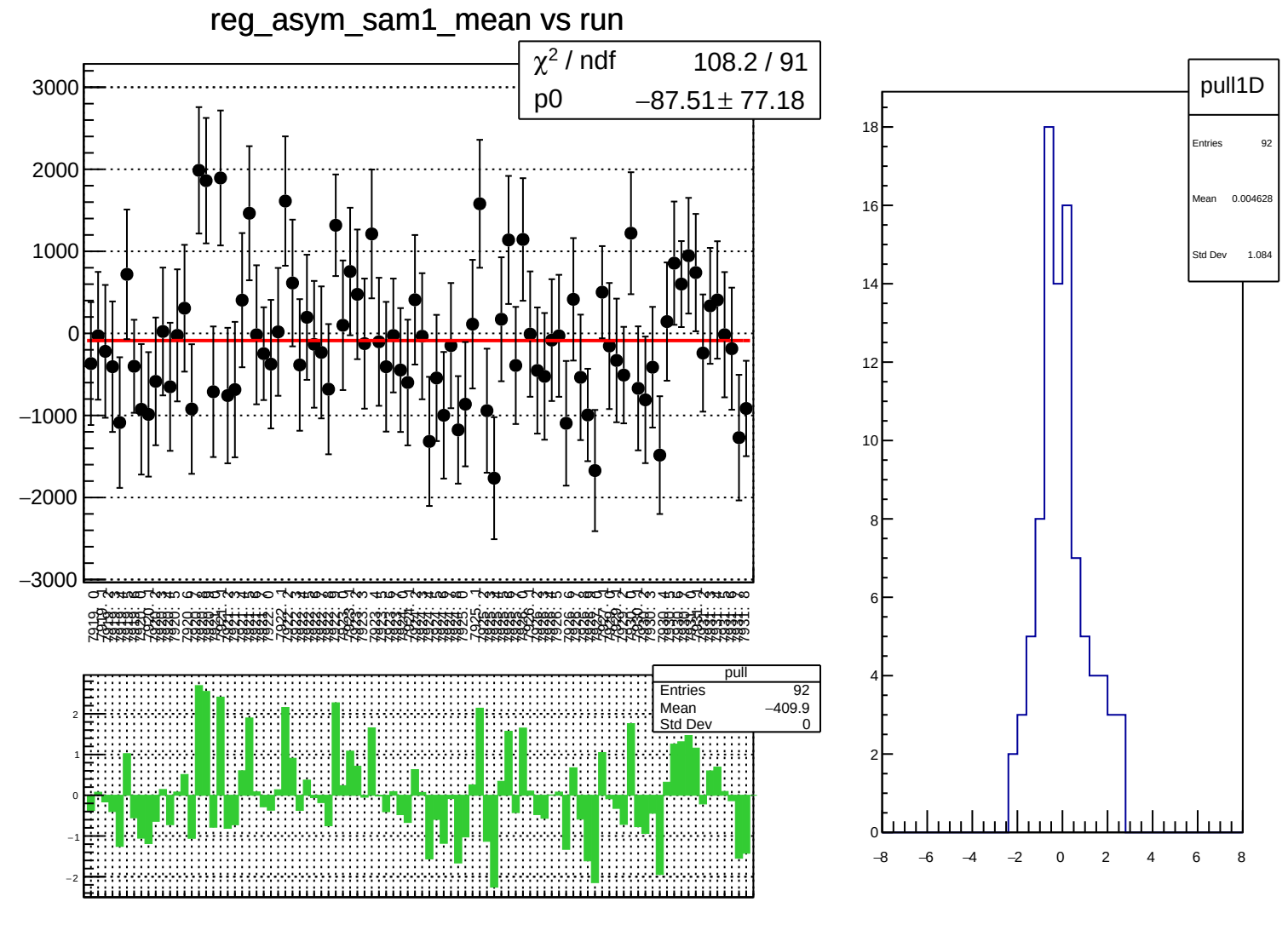

pull1D
Entries 92
Mean 0.6582
Std Dev 3.761
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

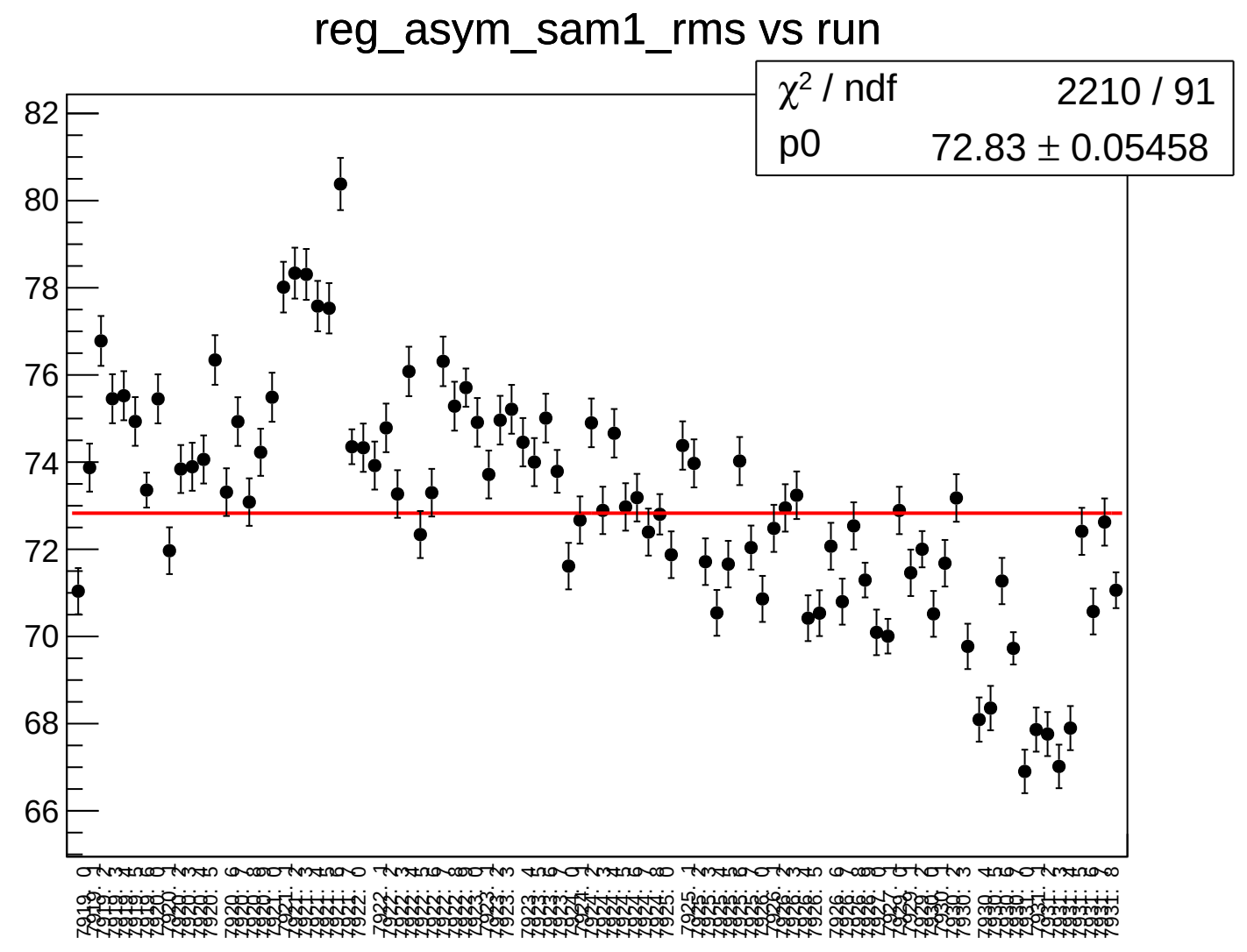

yield_sam7_rms vs run
χ^2 / ndf 1.319e+04 / 91
p0 0.007174 ± 5.393e−06
0.0105
0.01
0.0095
0.009
0.0085
0.008
0.0075
0.007
0.0065
0.006

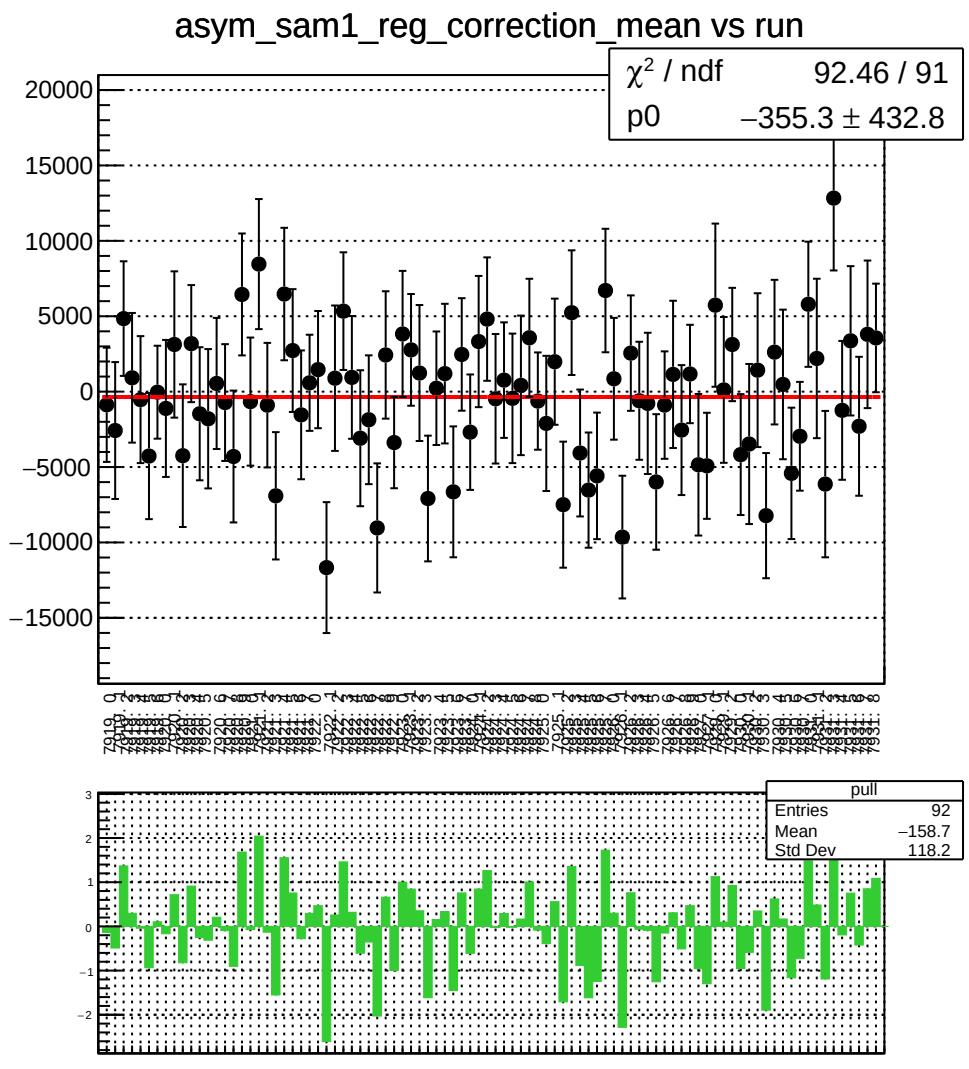

yield_sam8_mean vs run
χ² / ndf 9.377e+04 / 91
p0 8.942 ± 1.6e−05
8.95
8.945
8.94
8.935
8.93
pull
Entries 92
Mean −1702
Std Dev 0
60
40
20
0
−20
−40
−60
−80

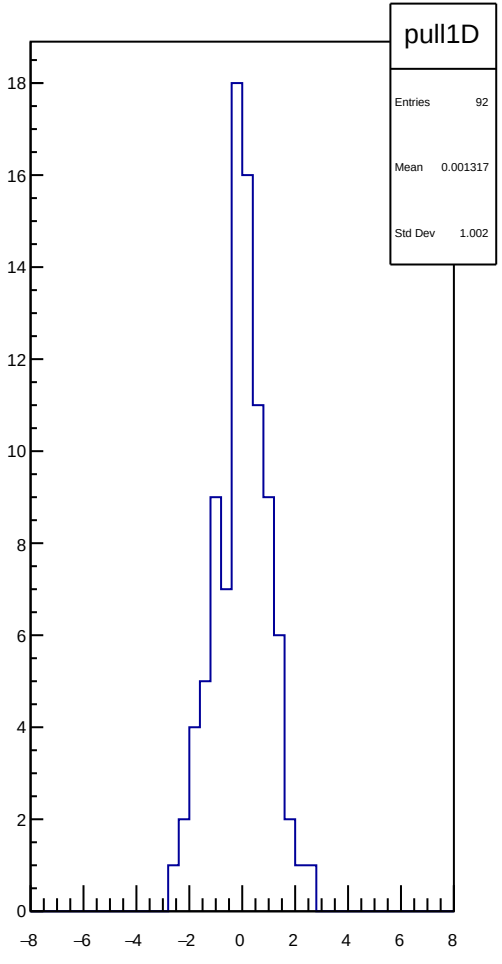

pull1D
Entries 92
Mean −0.5758
Std Dev 4.763
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

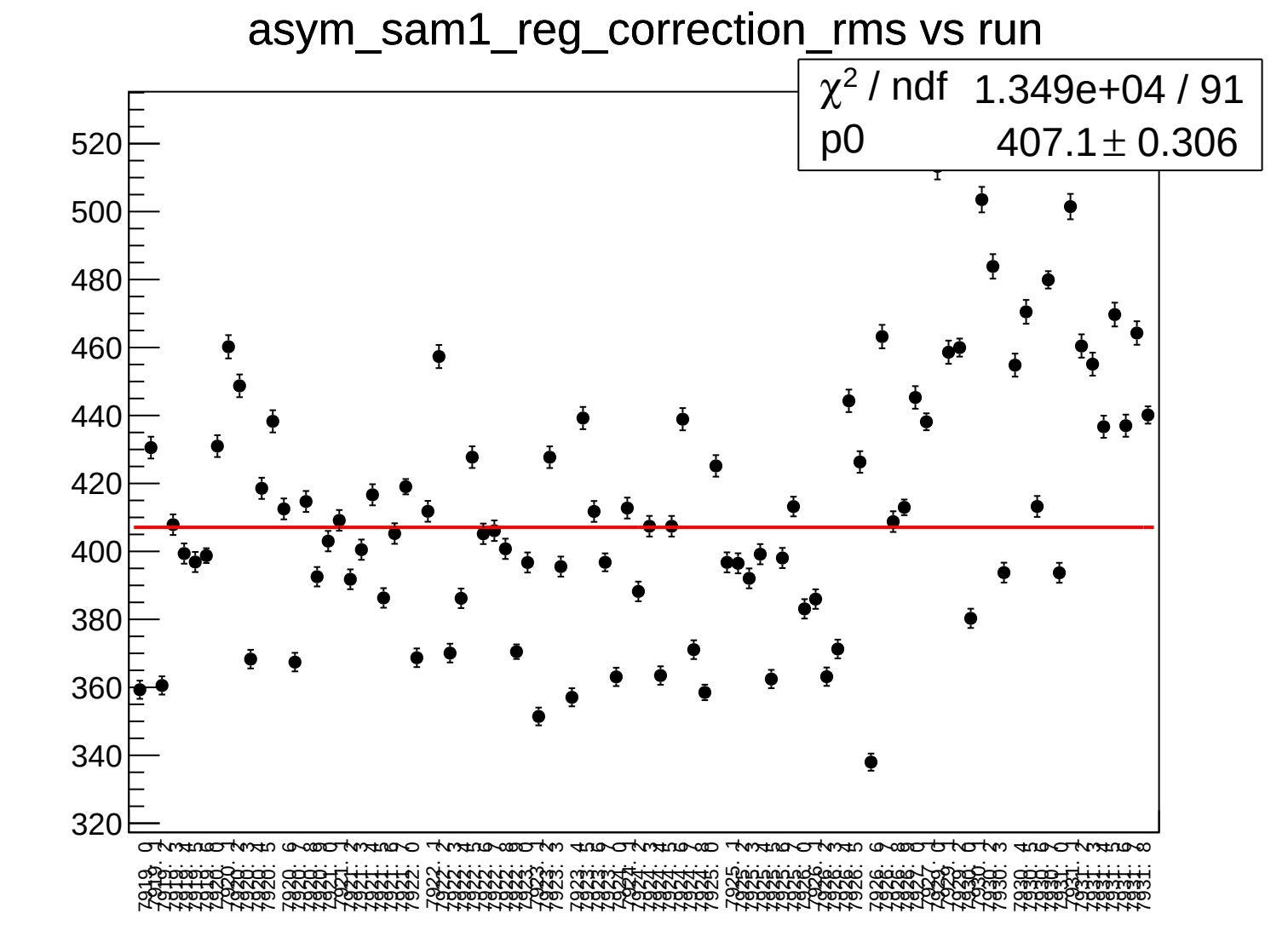

yield_sam8_rms vs run
χ² / ndf 1.251e+04 / 91
p0 0.01506 ± 1.132e−05
0.022
0.02
0.018
0.016
0.014
0.012

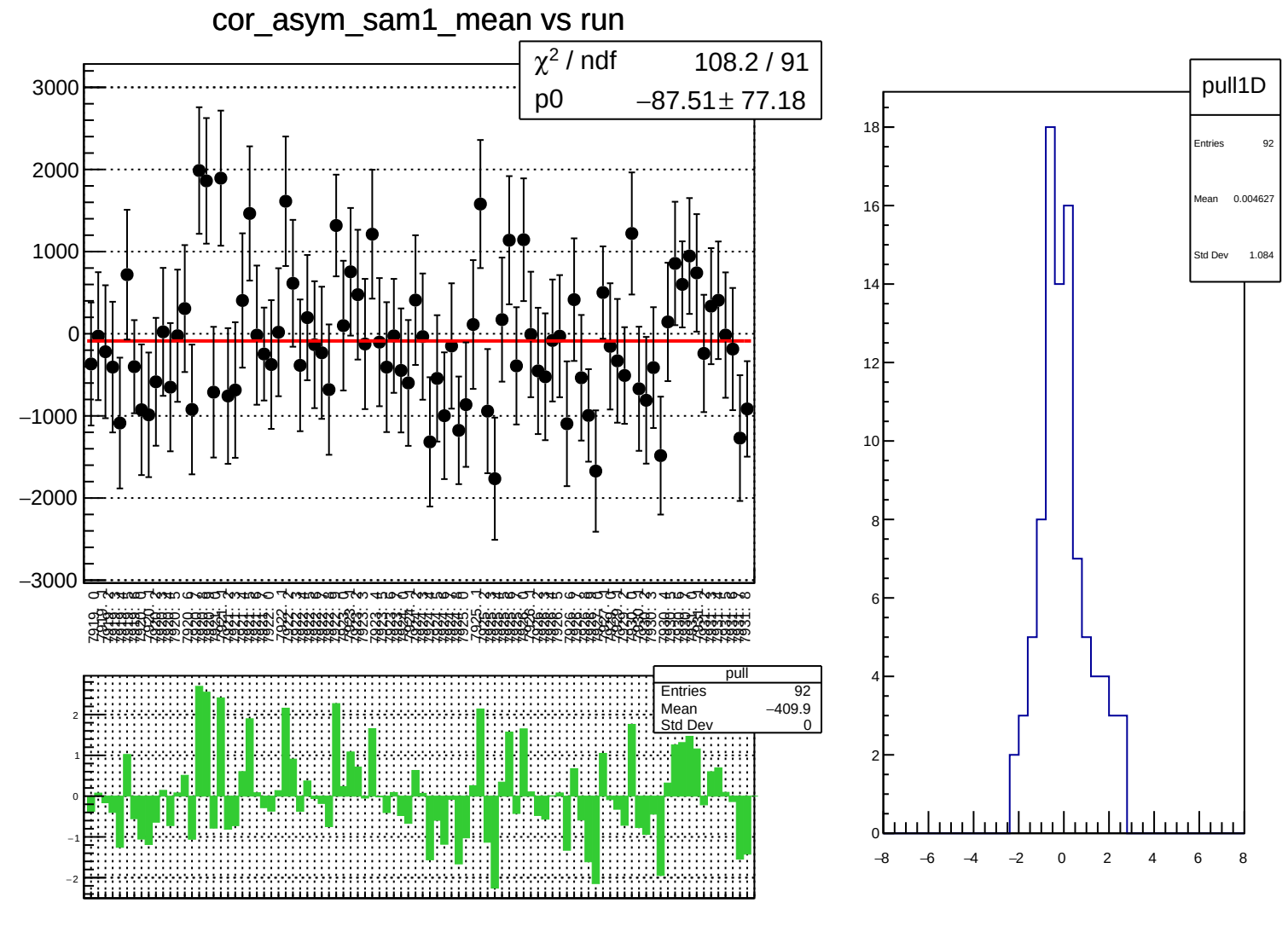

reg_asym_sam1_mean vs run
χ² / ndf 108.2 / 91
p0 −87.51± 77.18
pull
Entries 92
Mean −409.9
Std Dev 0
pull1D
Entries 92
Mean 0.004628
Std Dev 1.084

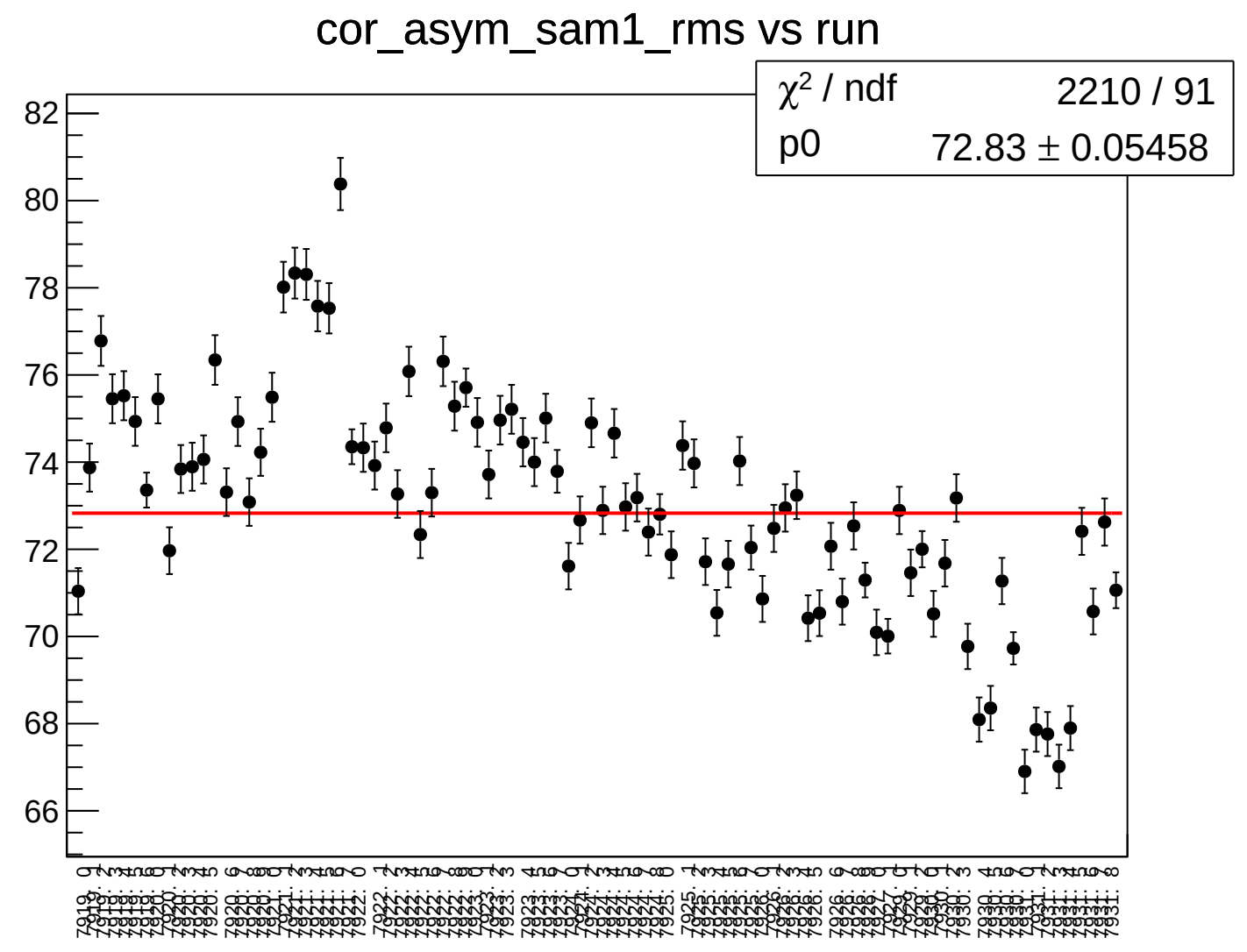

reg_asym_sam1_rms vs run
χ² / ndf 2210 / 91
p0 72.83 ± 0.05458
82
80
78
76
74
72
70
68
66

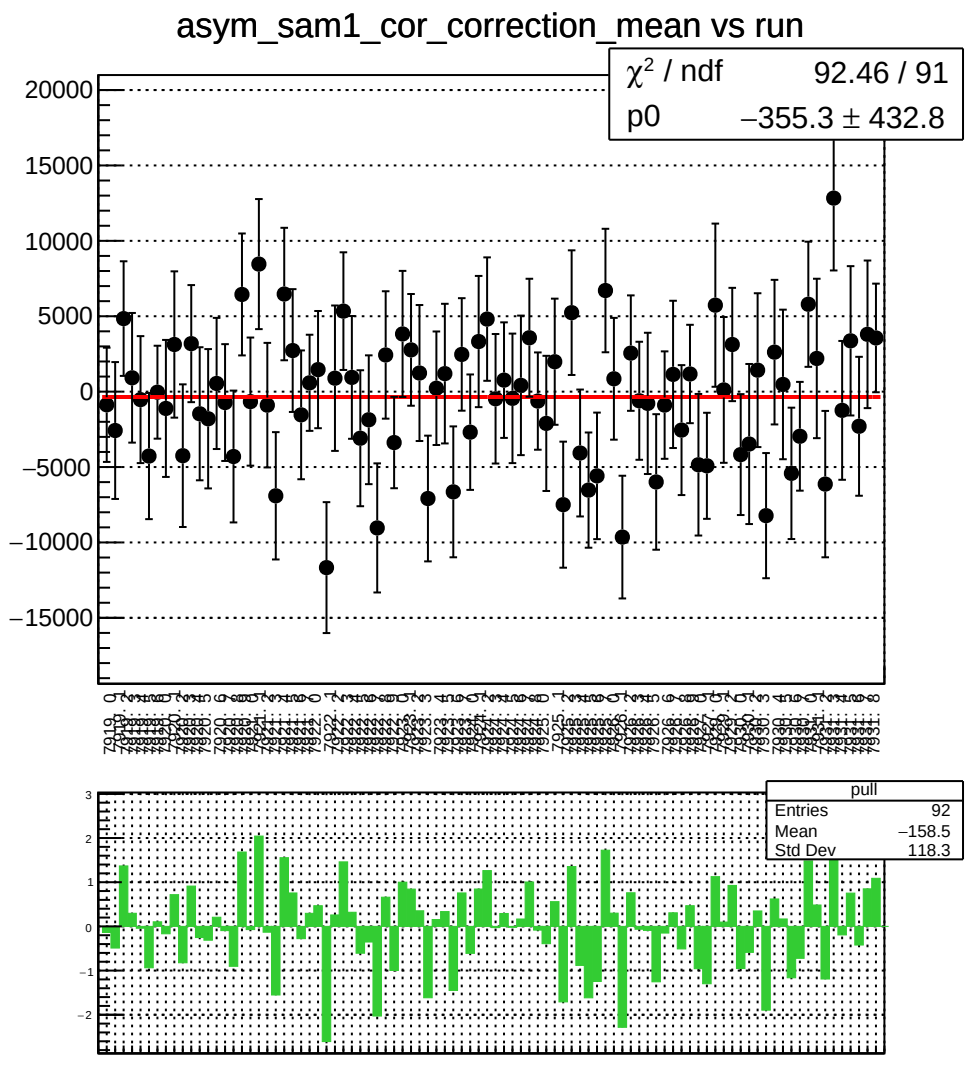

asym_sam1_reg_correction_mean vs run
χ² / ndf 92.46 / 91
p0 −355.3 ± 432.8
pull
Entries 92
Mean −158.7
Std Dev 118.2

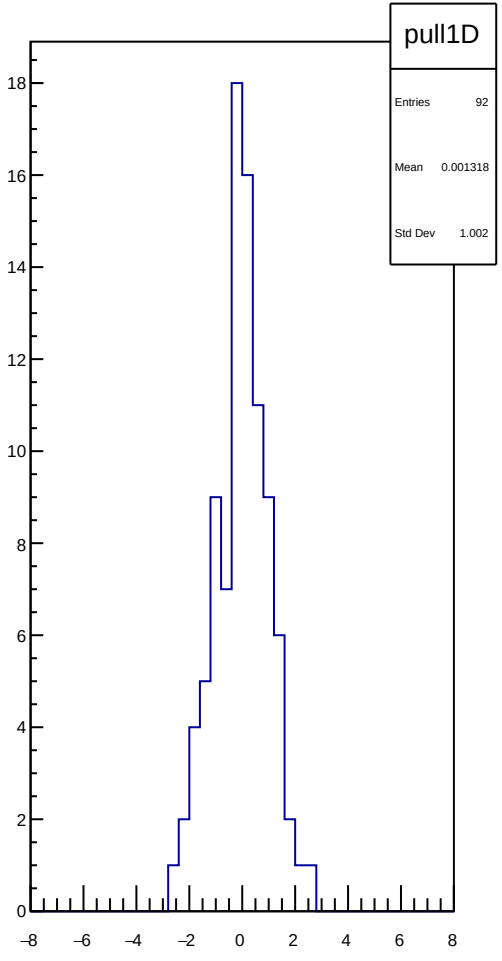

pull1D
Entries 92
Mean 0.001317
Std Dev 1.002

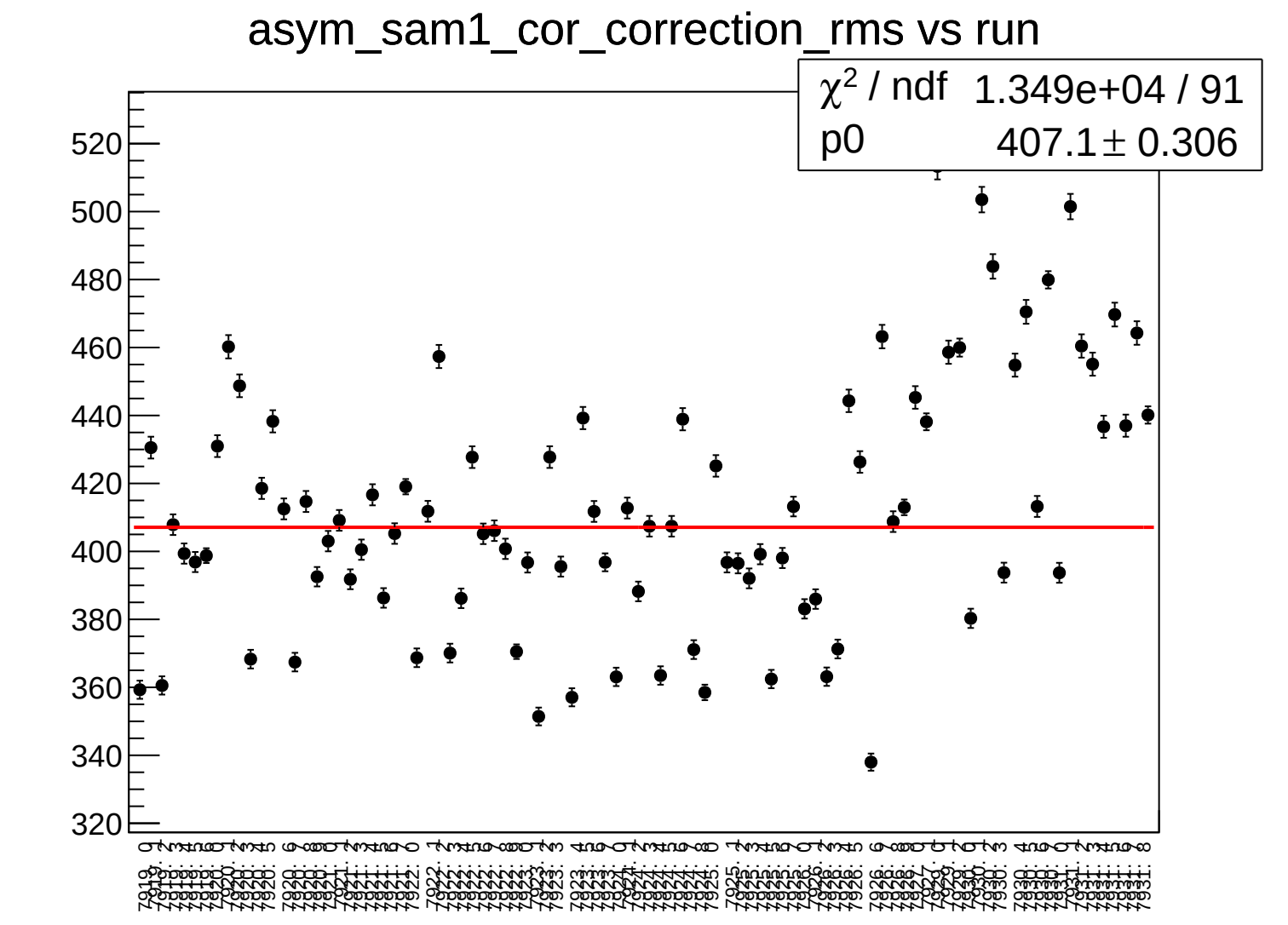

asym_sam1_reg_correction_rms vs run
χ^2 / ndf 1.349e+04 / 91
p0 407.1 ± 0.306
520
500
480
460
440
420
400
380
360
340
320

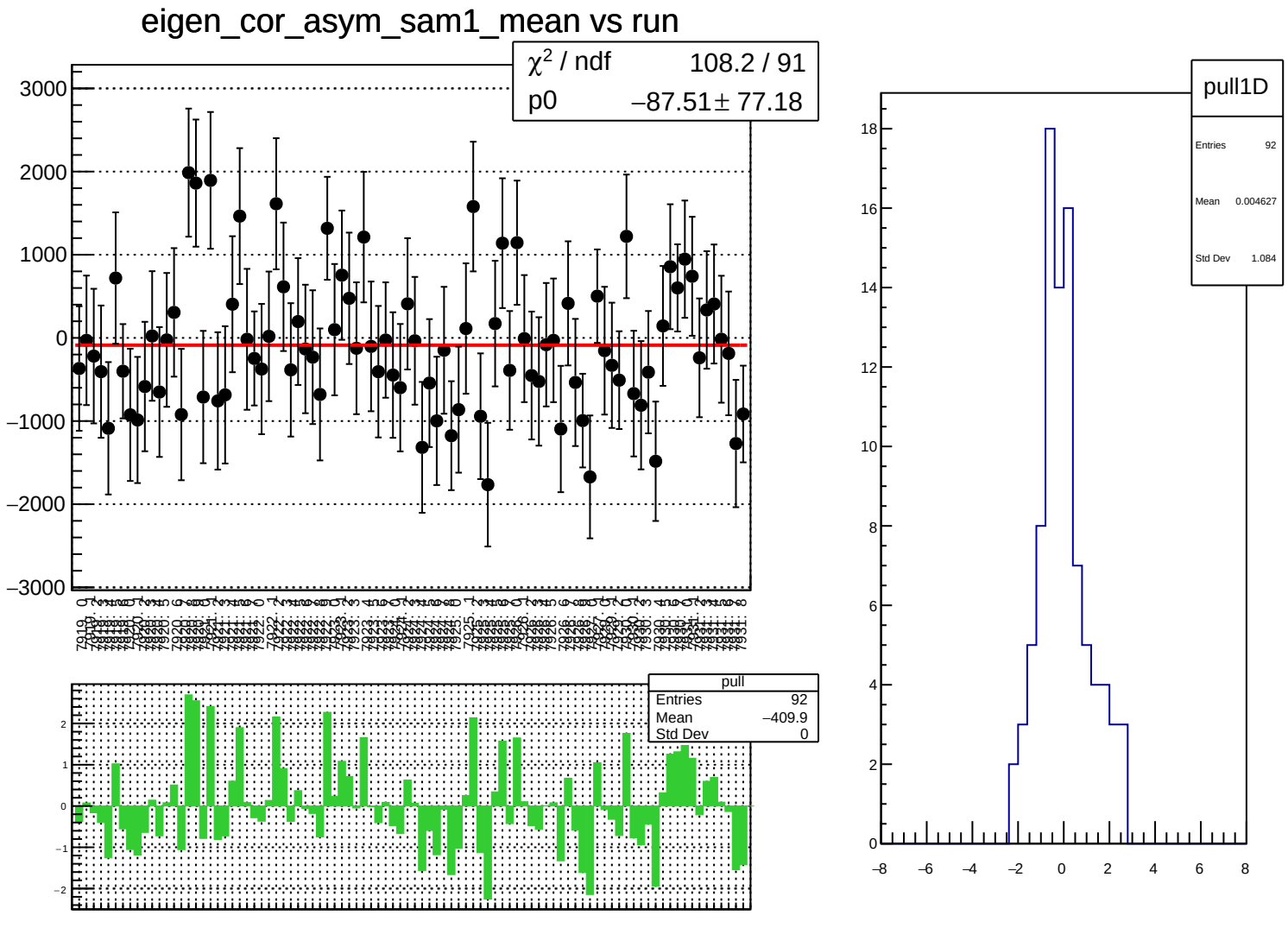

cor_asym_sam1_mean vs run
χ² / ndf 108.2 / 91
p0 −87.51± 77.18
pull
Entries 92
Mean −409.9
Std Dev 0
pull1D
Entries 92
Mean 0.004627
Std Dev 1.084

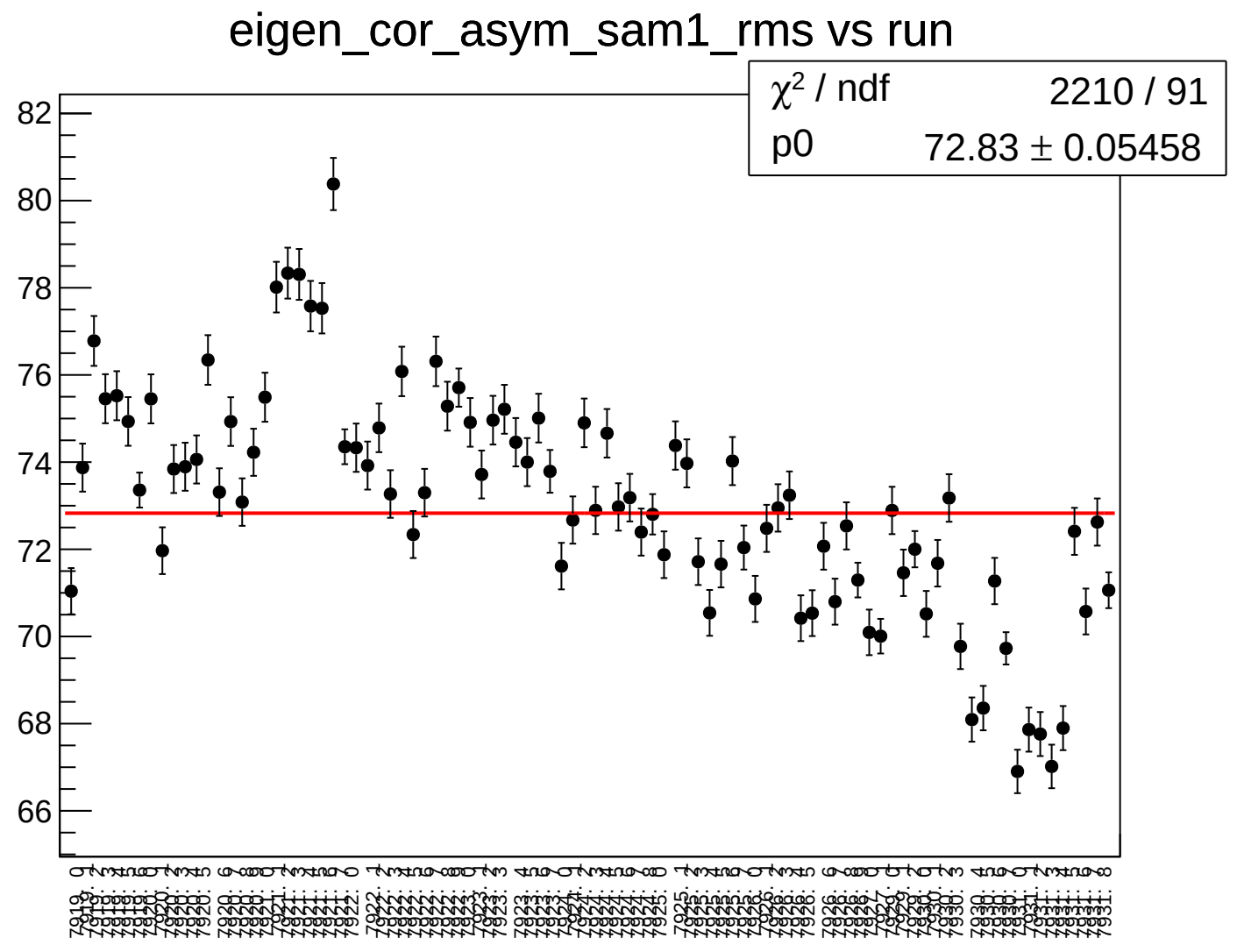

cor_asym_sam1_rms vs run
χ² / ndf 2210 / 91
p0 72.83 ± 0.05458
82
80
78
76
74
72
70
68
66

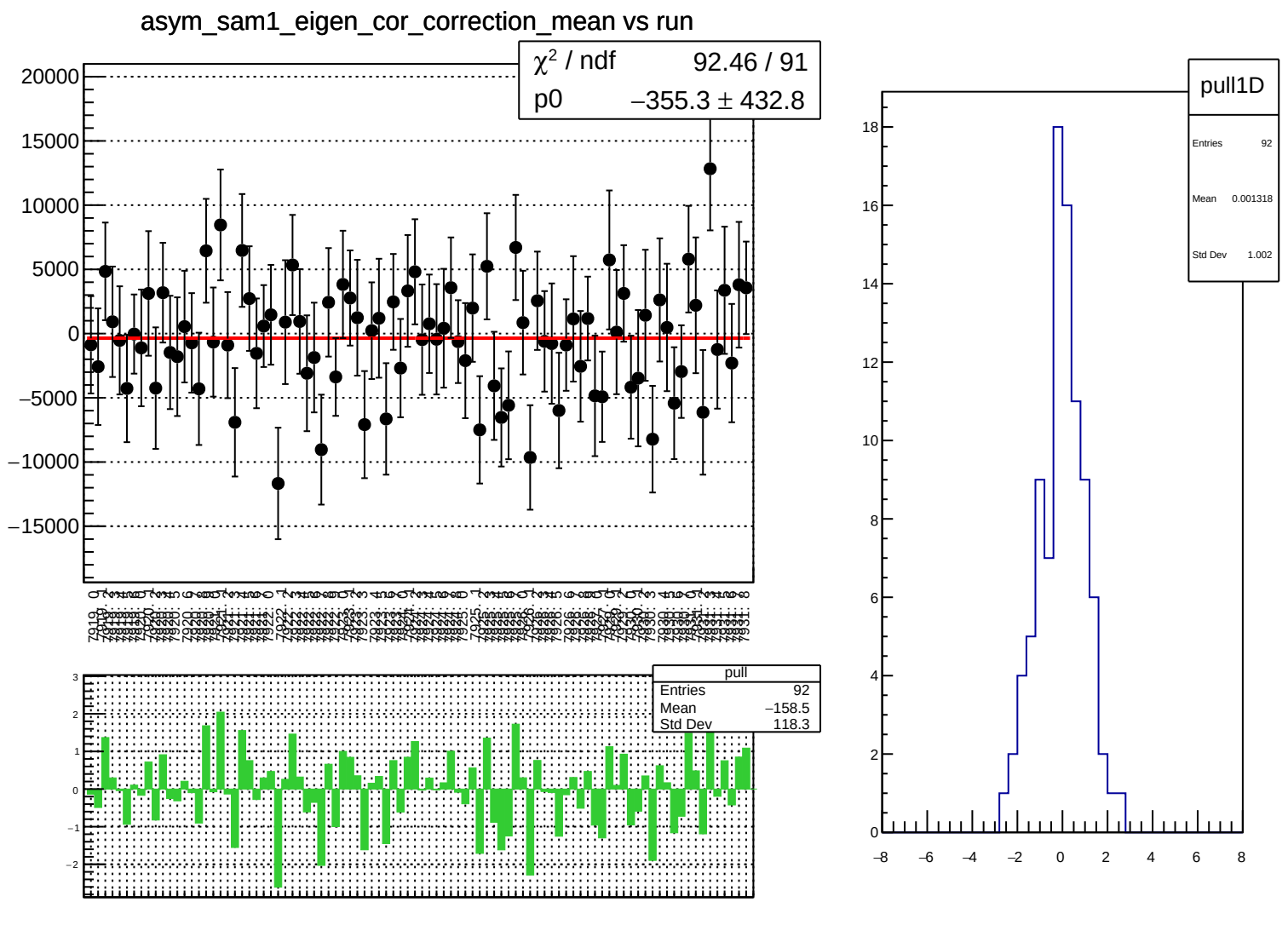

asym_sam1_cor_correction_mean vs run
χ² / ndf 92.46 / 91
p0 −355.3 ± 432.8
pull
Entries 92
Mean −158.5
Std Dev 118.3

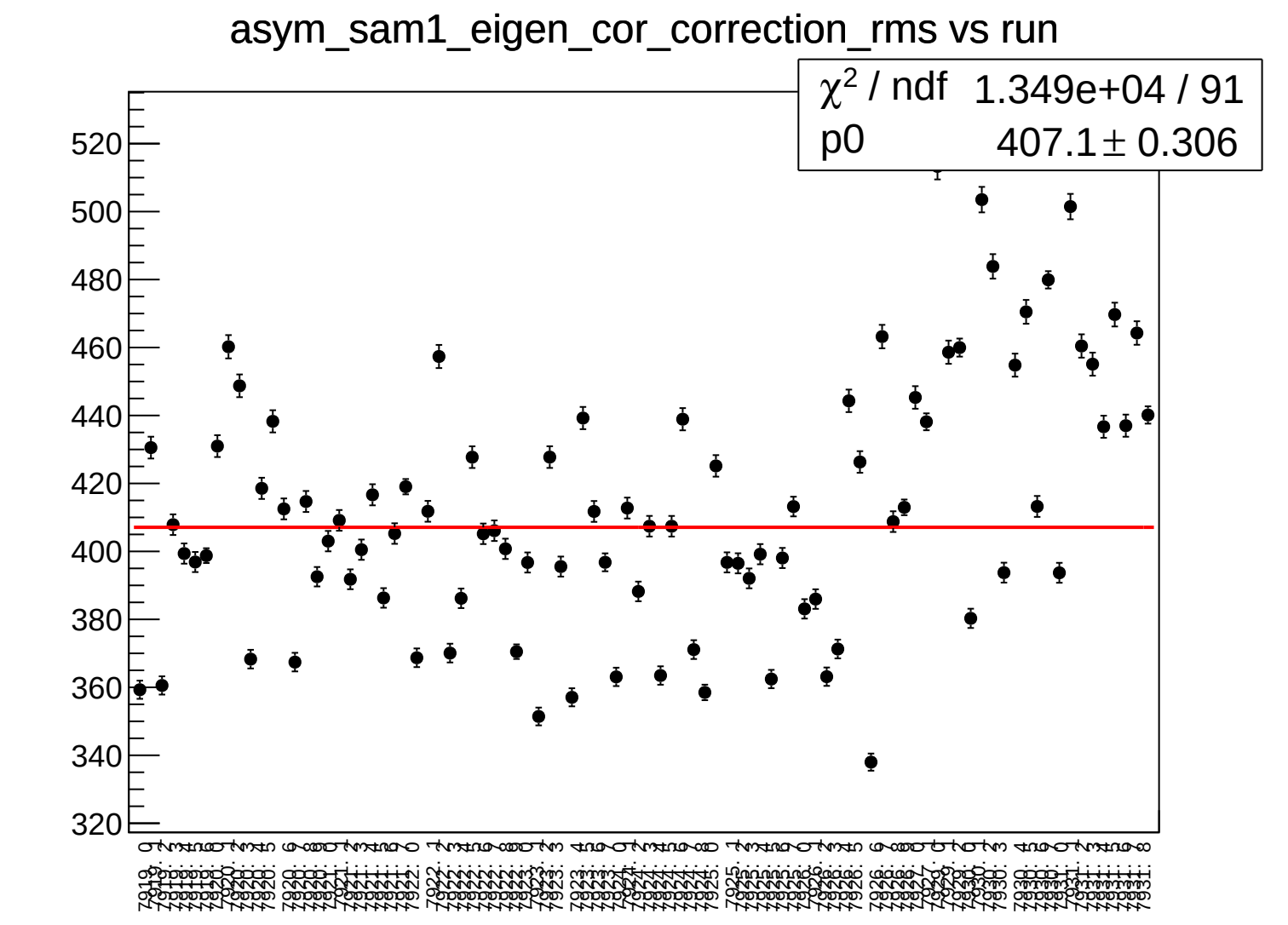

pull1D
Entries 92
Mean 0.001318
Std Dev 1.002

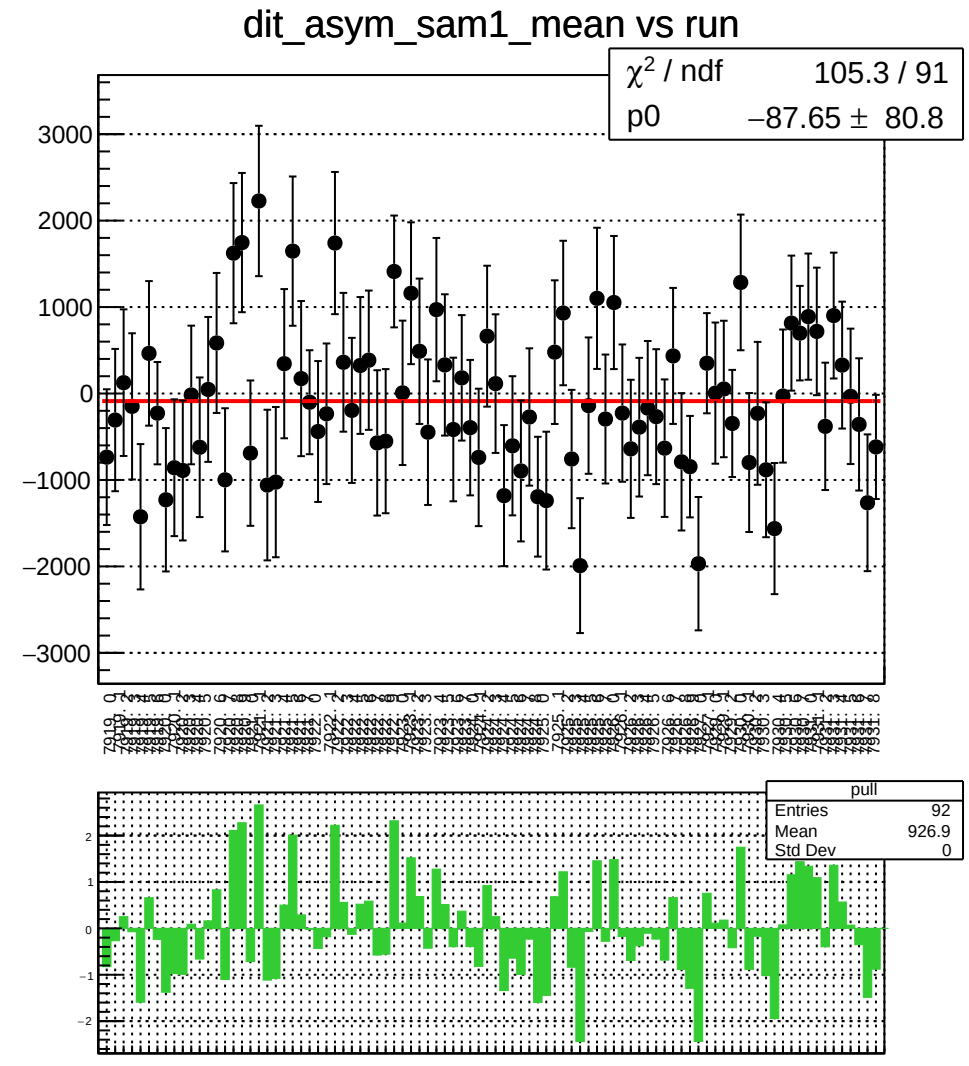

asym_sam1_cor_correction_rms vs run
χ² / ndf 1.349e+04 / 91
p0 407.1 ± 0.306
520
500
480
460
440
420
400
380
360
340
320

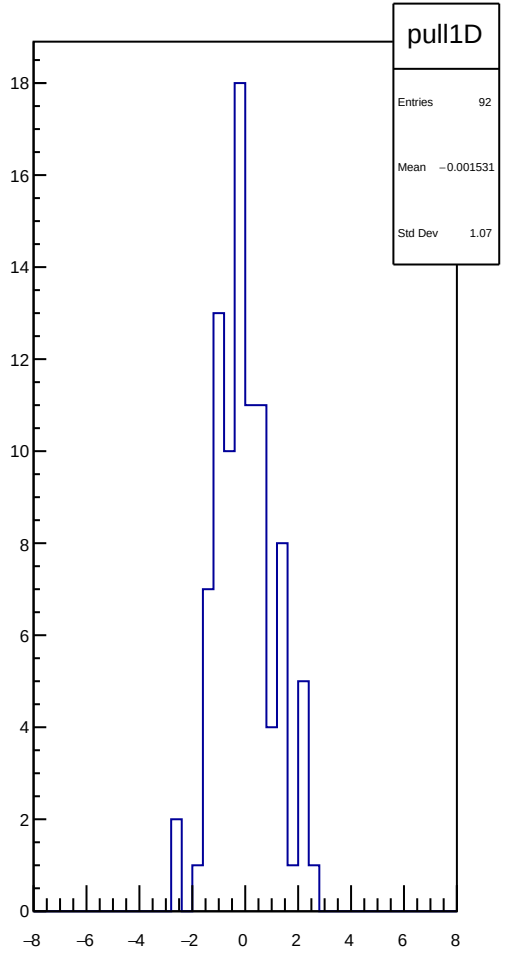

eigen_cor_asym_sam1_mean vs run
χ² / ndf 108.2 / 91
p0 −87.51 ± 77.18
pull
Entries 92
Mean −409.9
Std Dev 0
pull1D
Entries 92
Mean 0.004627
Std Dev 1.084

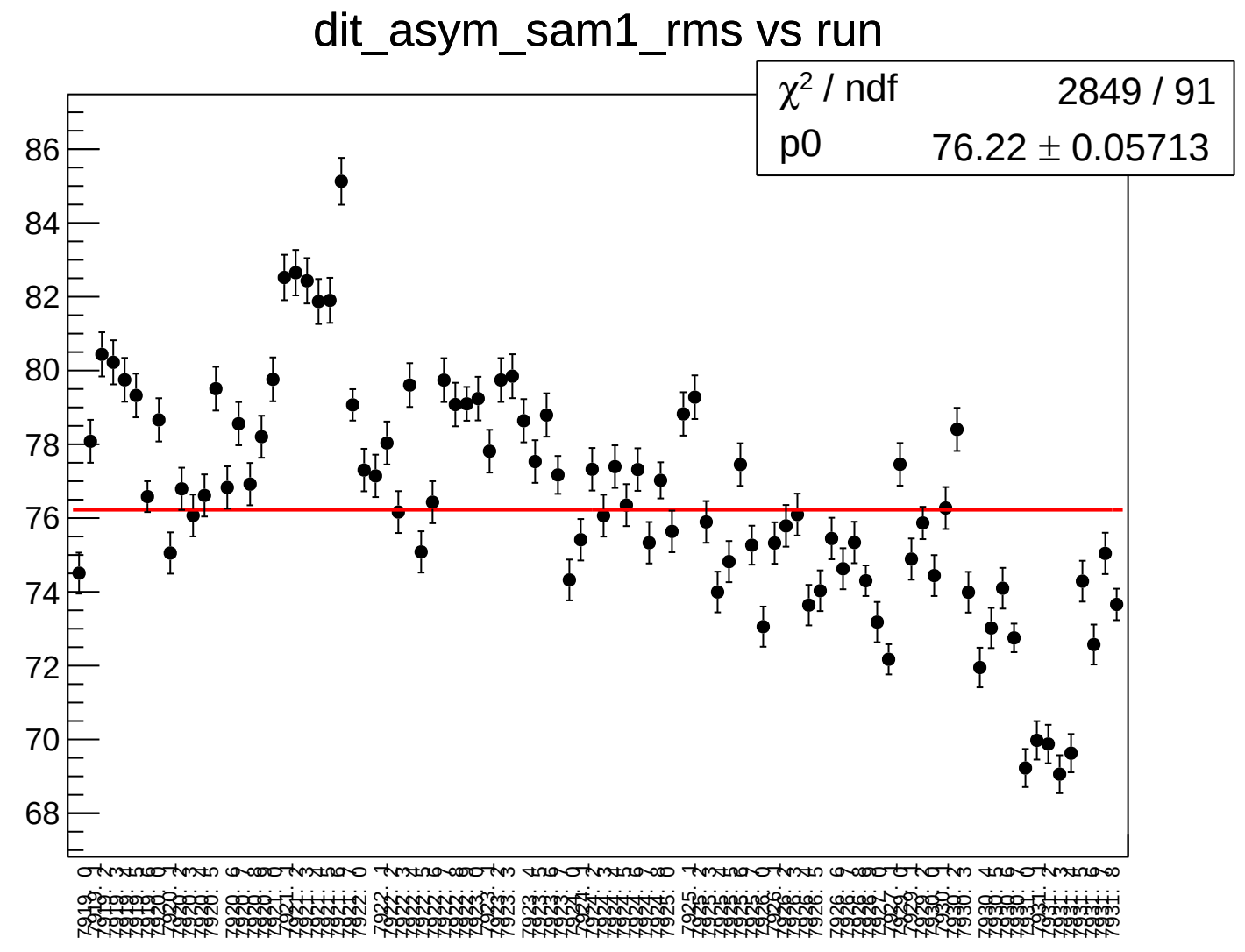

eigen_cor_asym_sam1_rms vs run
χ² / ndf 2210 / 91
p0 72.83 ± 0.05458
82
80
78
76
74
72
70
68
66

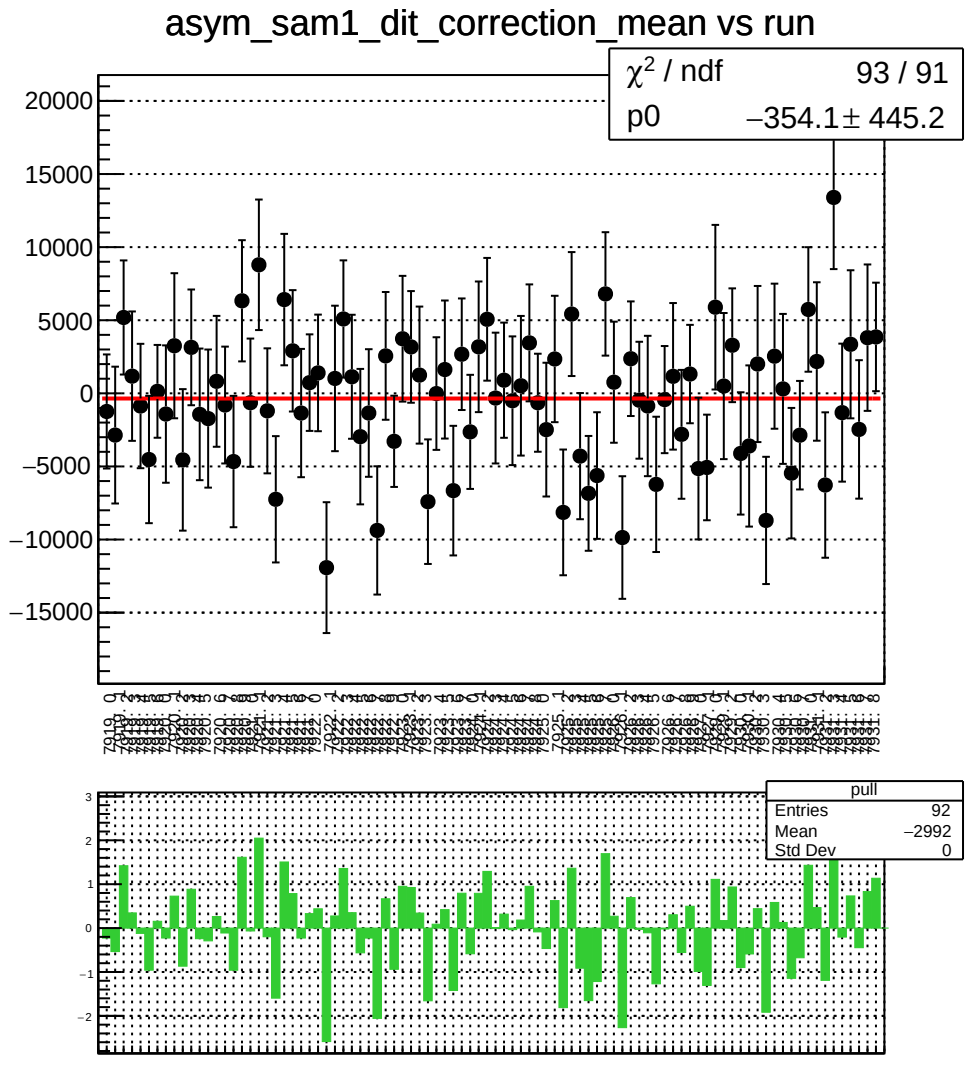

asym_sam1_eigen_cor_correction_mean vs run
χ² / ndf 92.46 / 91
p0 −355.3 ± 432.8
pull
Entries 92
Mean −158.5
Std Dev 118.3
pull1D
Entries 92
Mean 0.001318
Std Dev 1.002

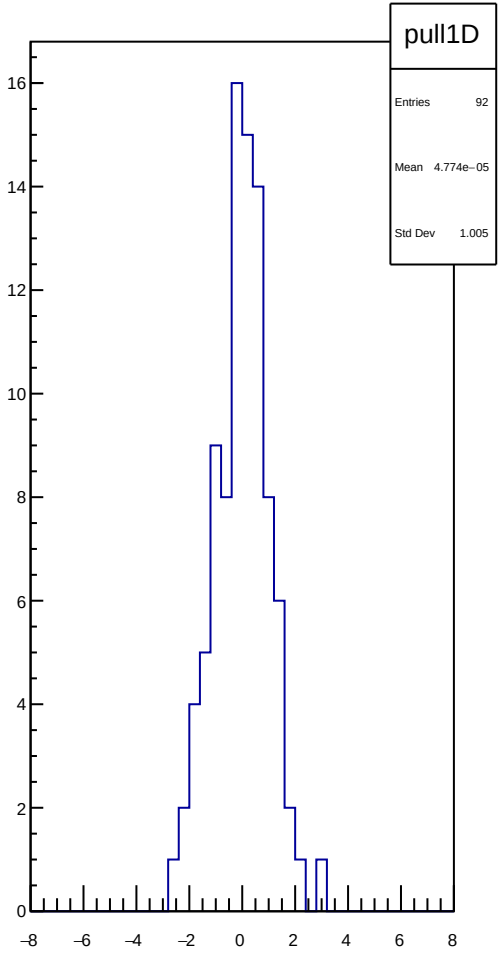

asym_sam1_eigen_cor_correction_rms vs run
χ² / ndf 1.349e+04 / 91
p0 407.1 ± 0.306
520
500
480
460
440
420
400
380
360
340
320

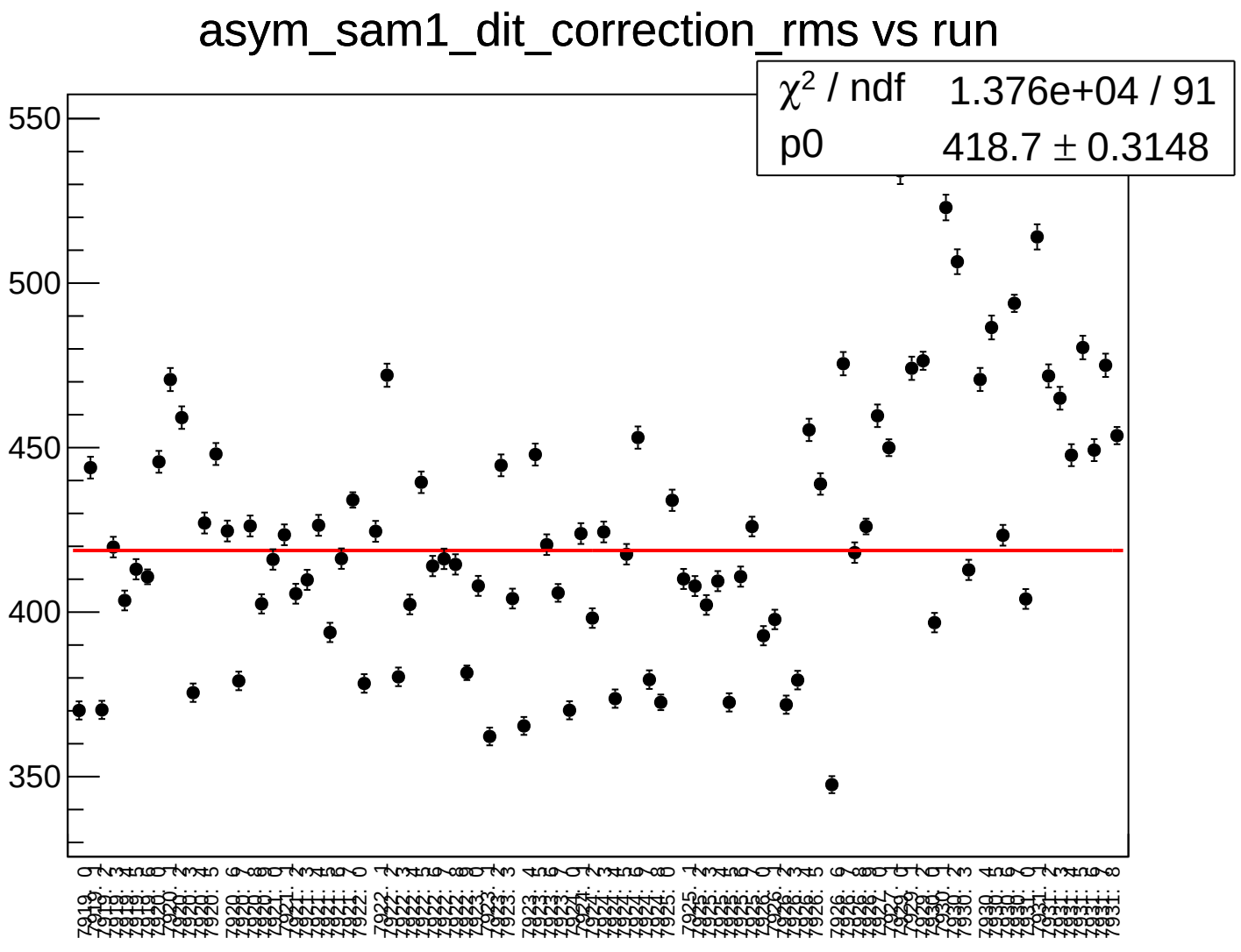

dit_asym_sam1_mean vs run
χ² / ndf 105.3 / 91
p0 −87.65 ± 80.8
pull
Entries 92
Mean 926.9
Std Dev 0

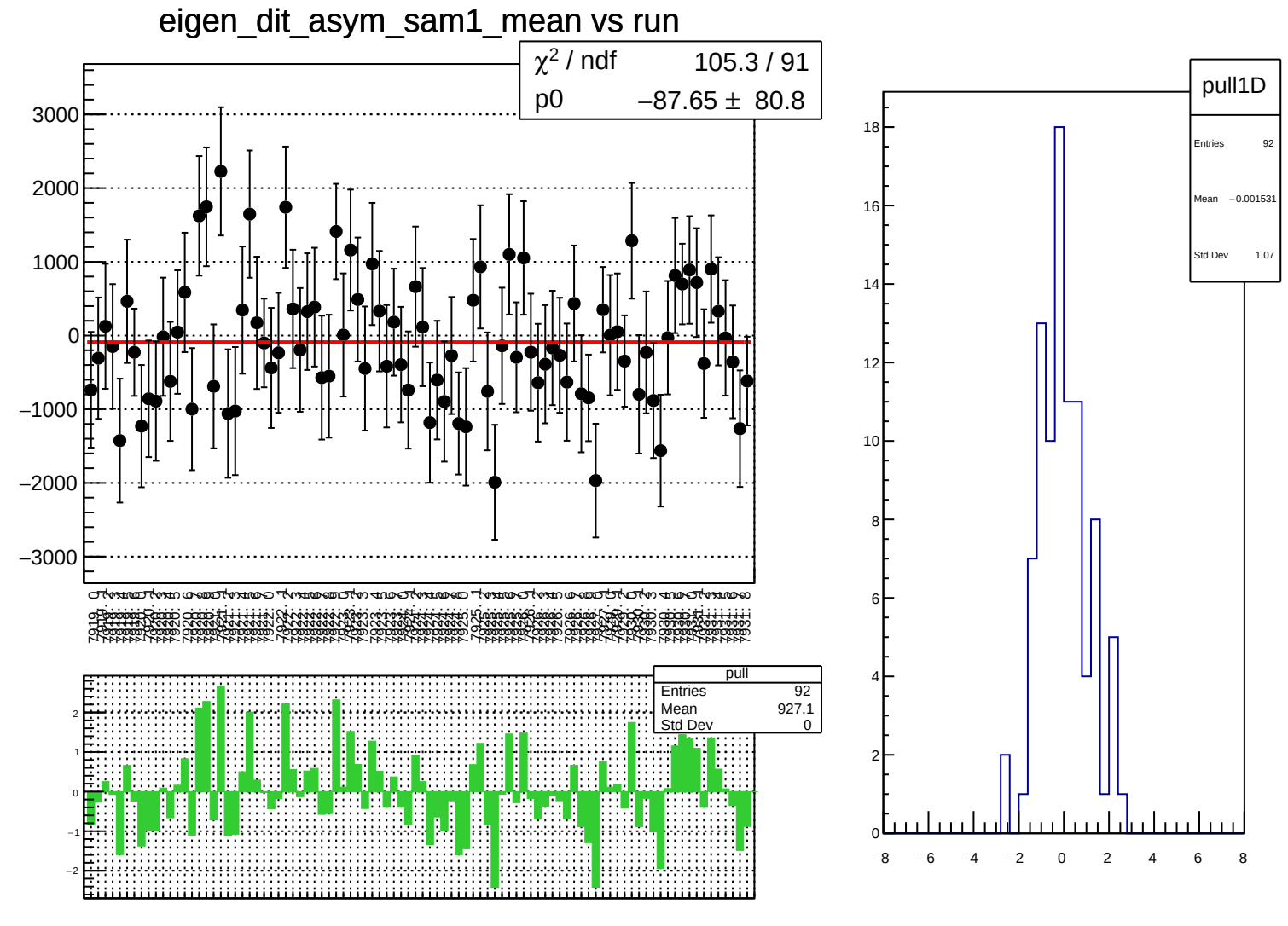

pull1D
Entries 92
Mean −0.001531
Std Dev 1.07

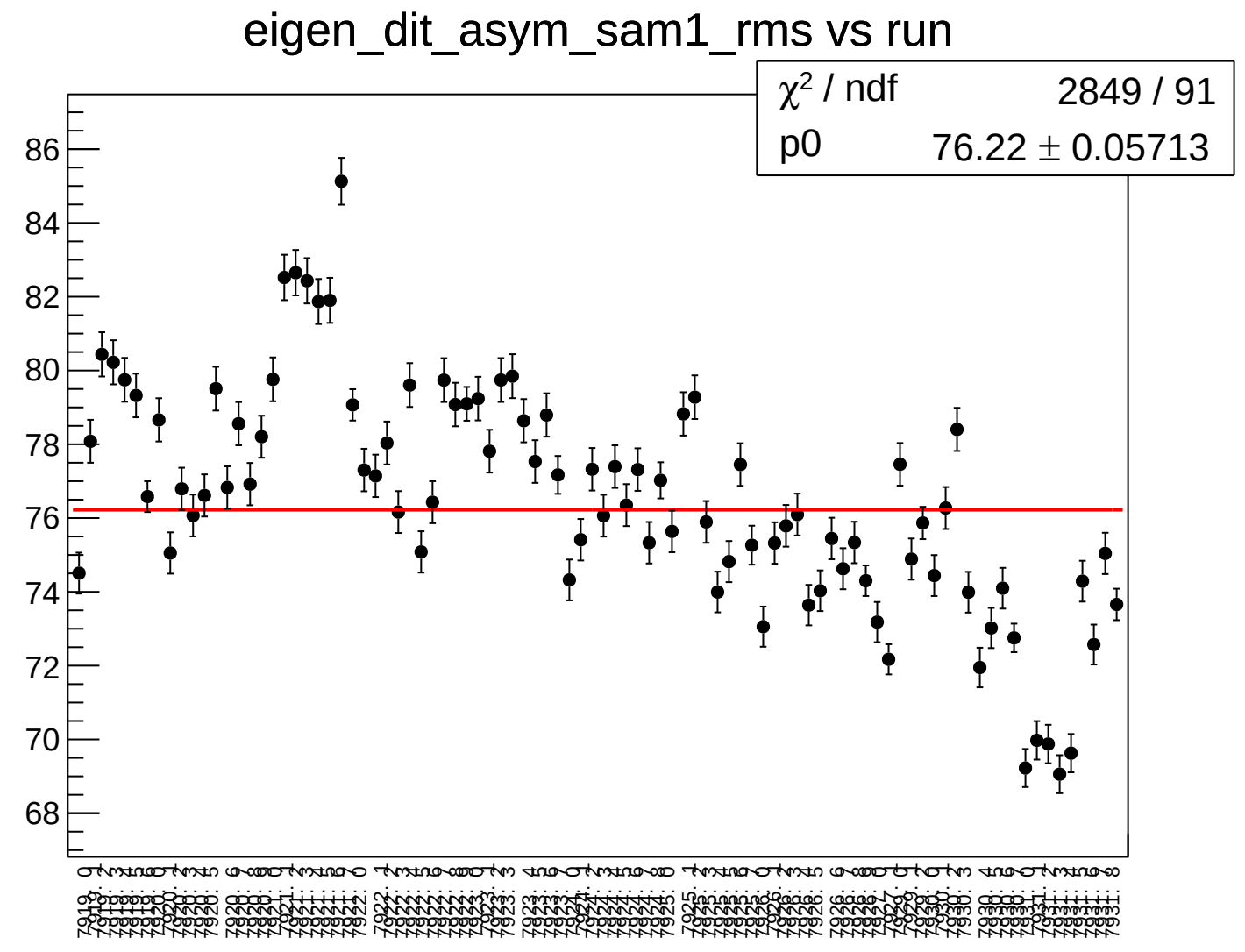

dit_asym_sam1_rms vs run
χ² / ndf 2849 / 91
p0 76.22 ± 0.05713
86
84
82
80
78
76
74
72
70
68

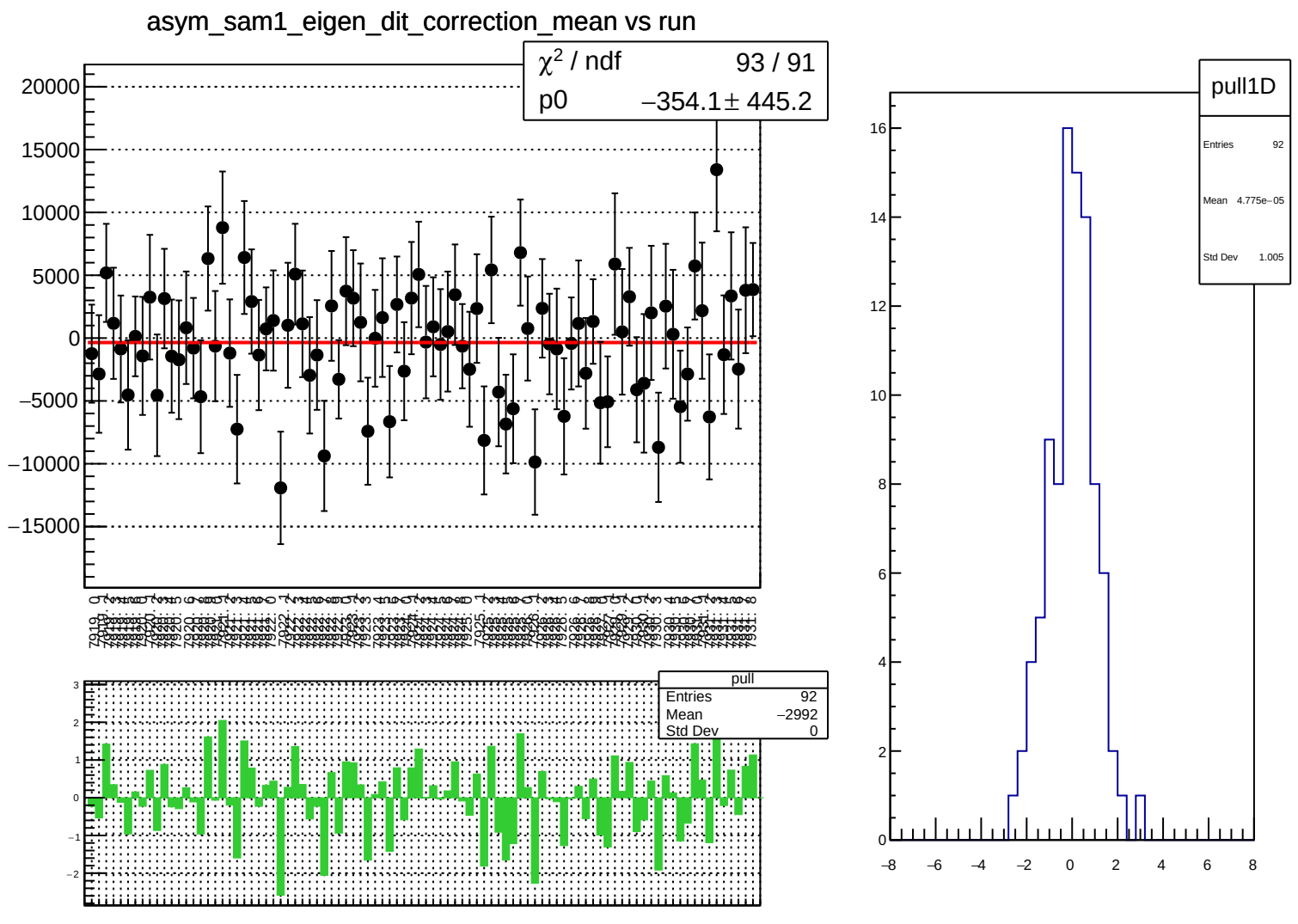

asym_sam1_dit_correction_mean vs run
χ² / ndf 93 / 91
p0 −354.1± 445.2
pull
Entries 92
Mean −2992
Std Dev 0

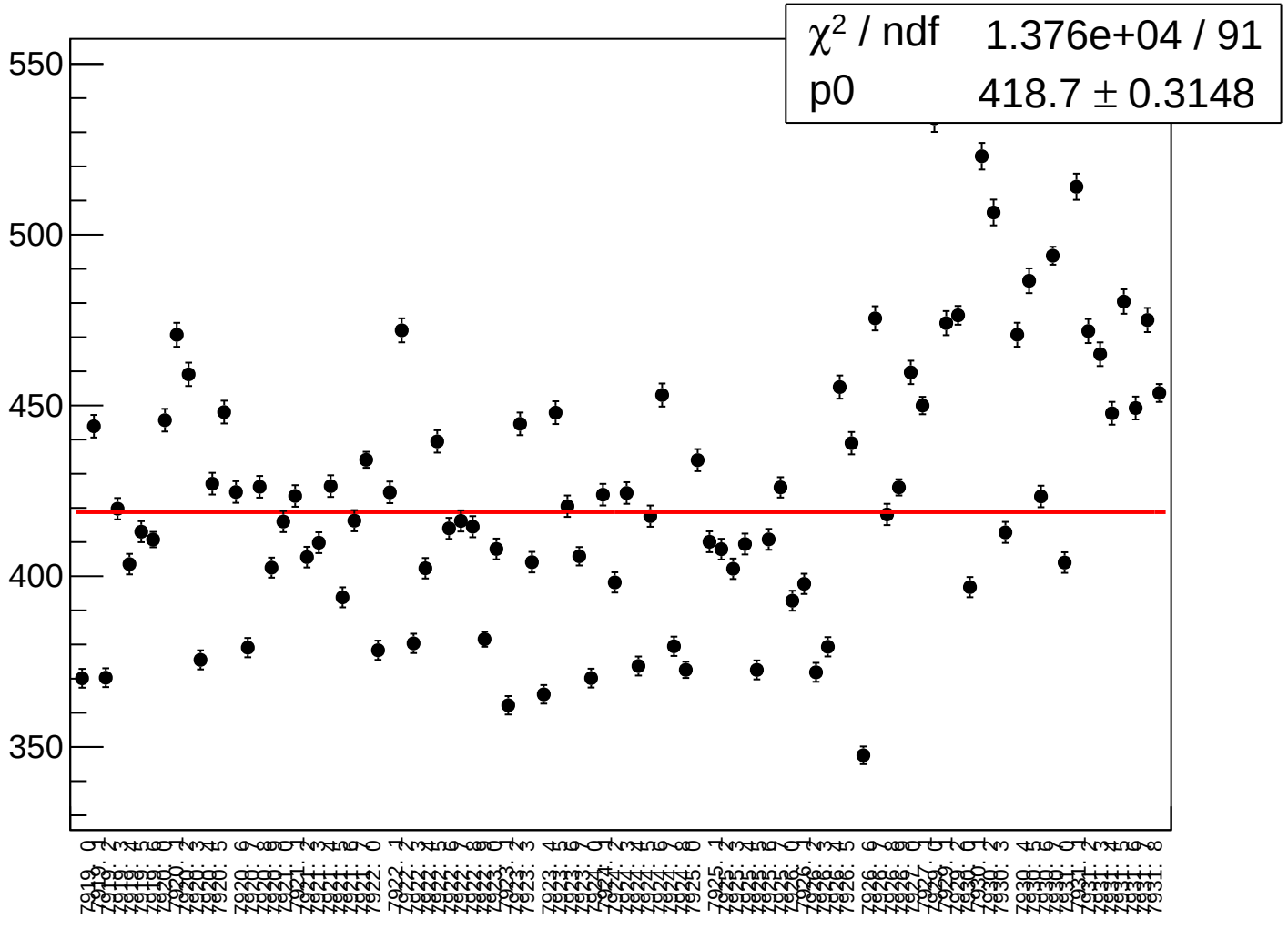

pull1D
Entries 92
Mean 4.774e−05
Std Dev 1.005

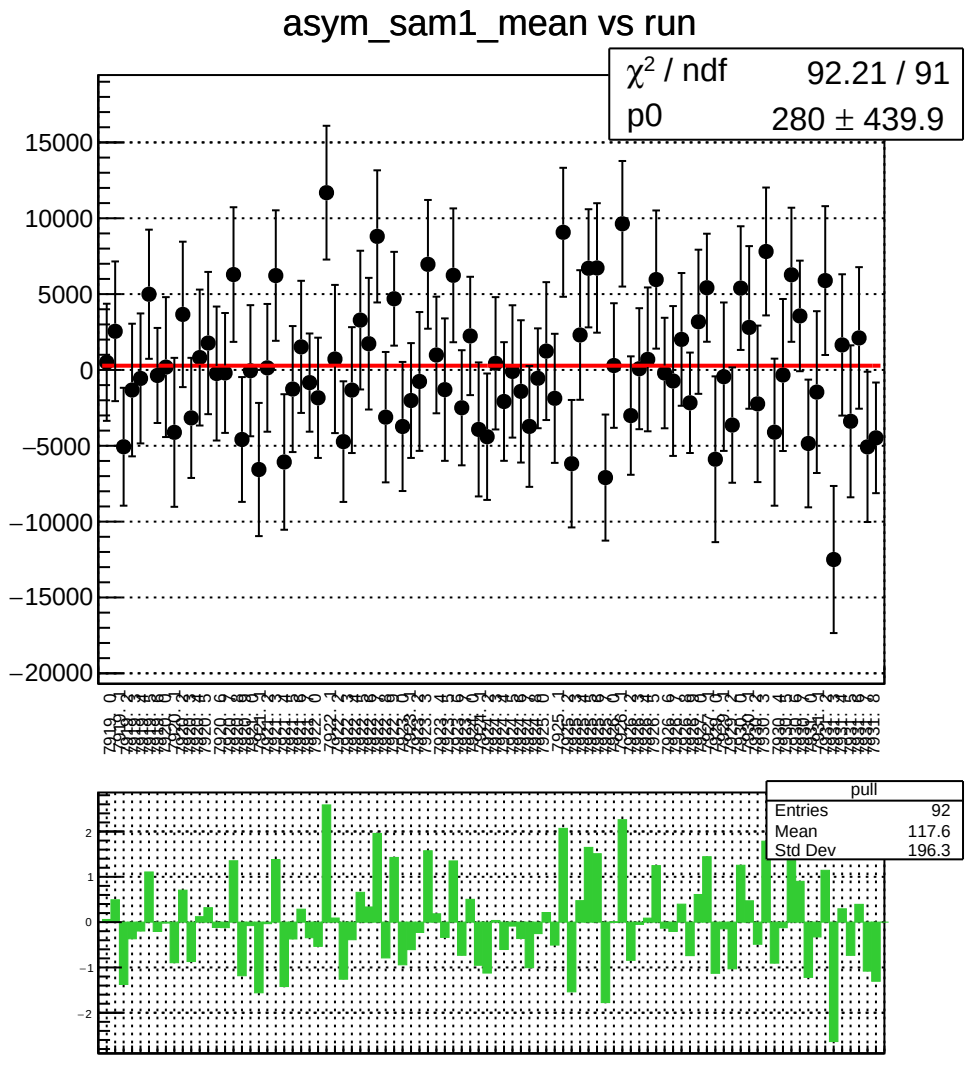

asym_sam1_dit_correction_rms vs run
χ² / ndf 1.376e+04 / 91
p0 418.7 ± 0.3148
550
500
450
400
350

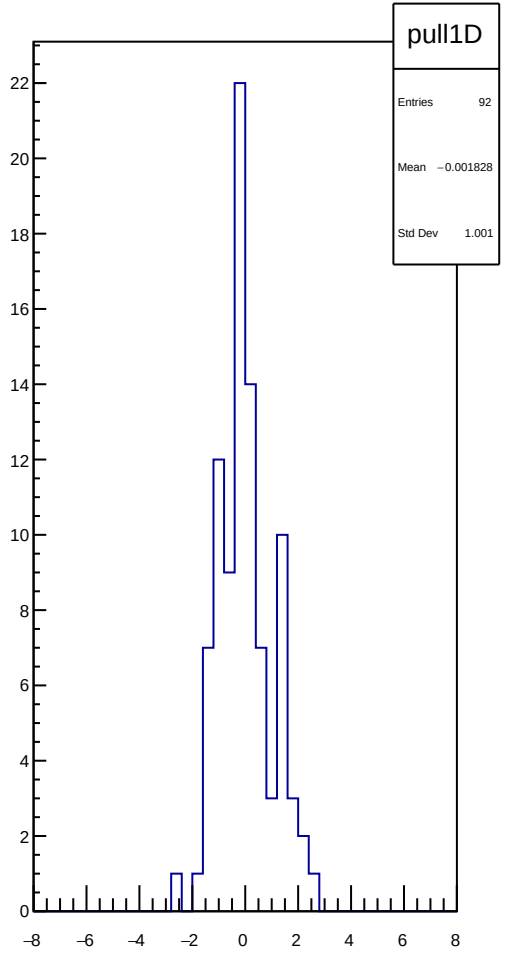

eigen_dit_asym_sam1_mean vs run
χ² / ndf 105.3 / 91
p0 −87.65 ± 80.8
pull
Entries 92
Mean 927.1
Std Dev 0
pull1D
Entries 92
Mean −0.001531
Std Dev 1.07

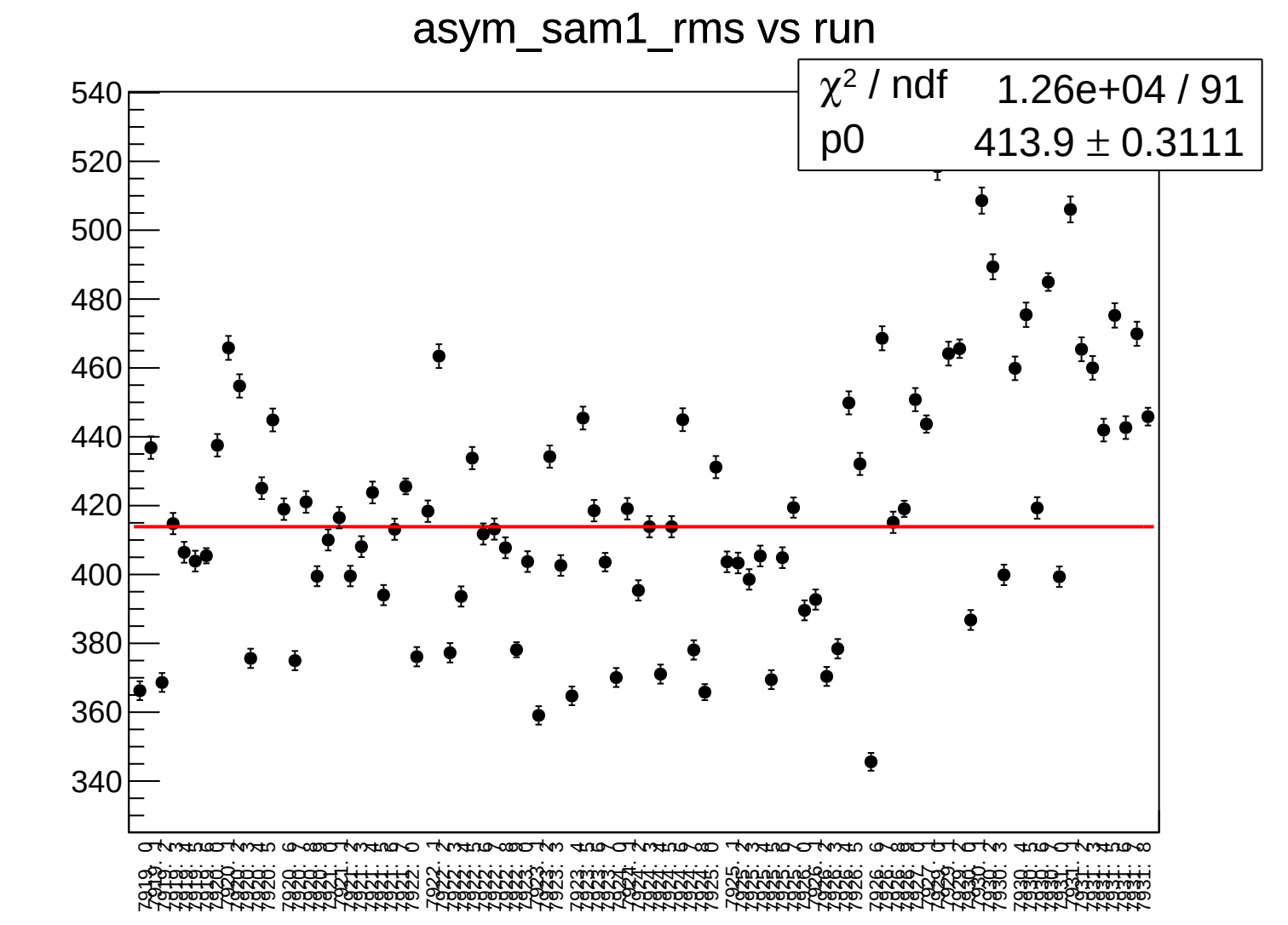

eigen_dit_asym_sam1_rms vs run
χ^2 / ndf 2849 / 91
p0 76.22 ± 0.05713
86
84
82
80
78
76
74
72
70
68

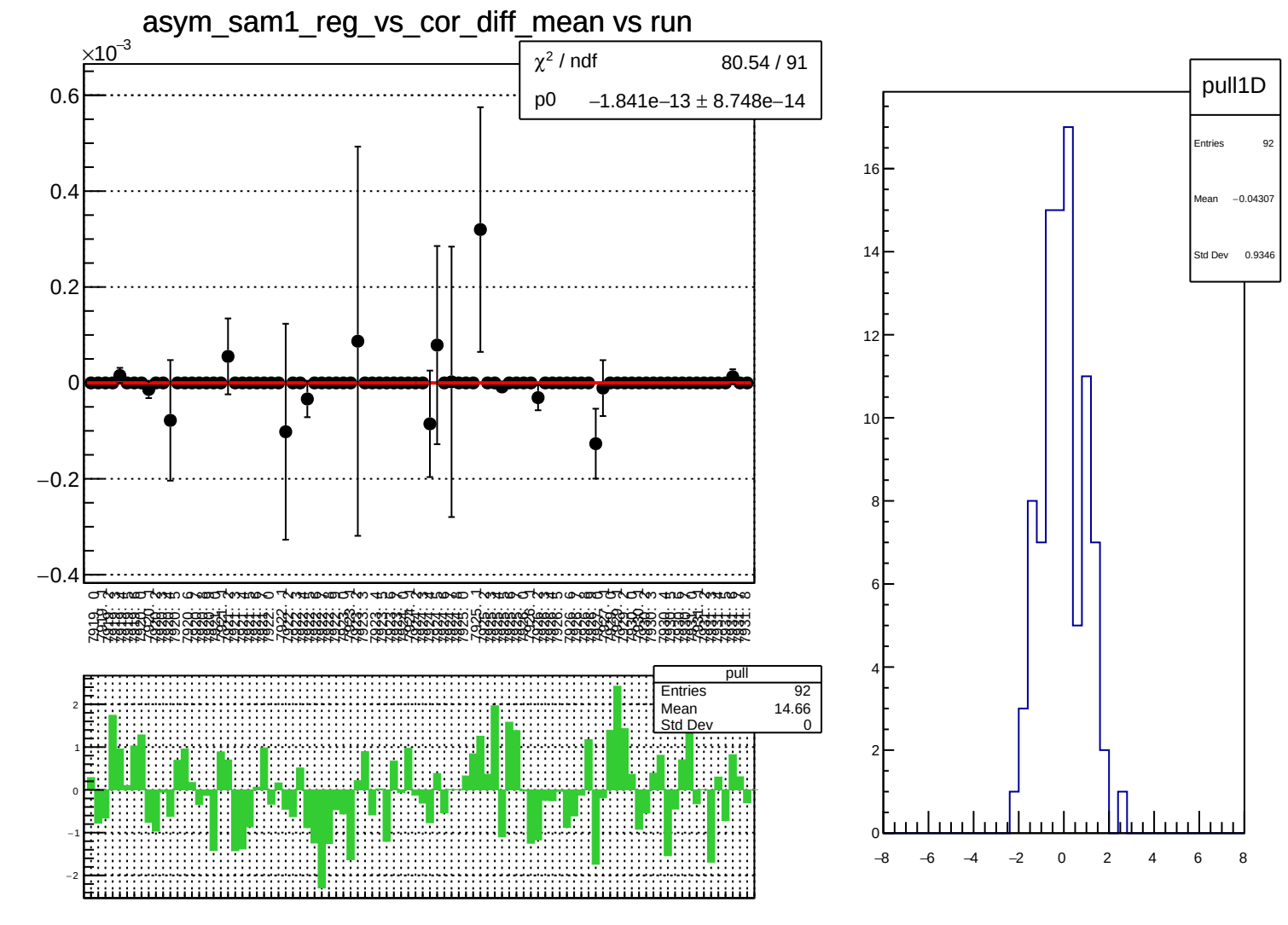

asym_sam1_eigen_dit_correction_mean vs run
χ² / ndf 93 / 91
p0 −354.1± 445.2
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean −2992
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean 4.775e−05
Std Dev 1.005
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

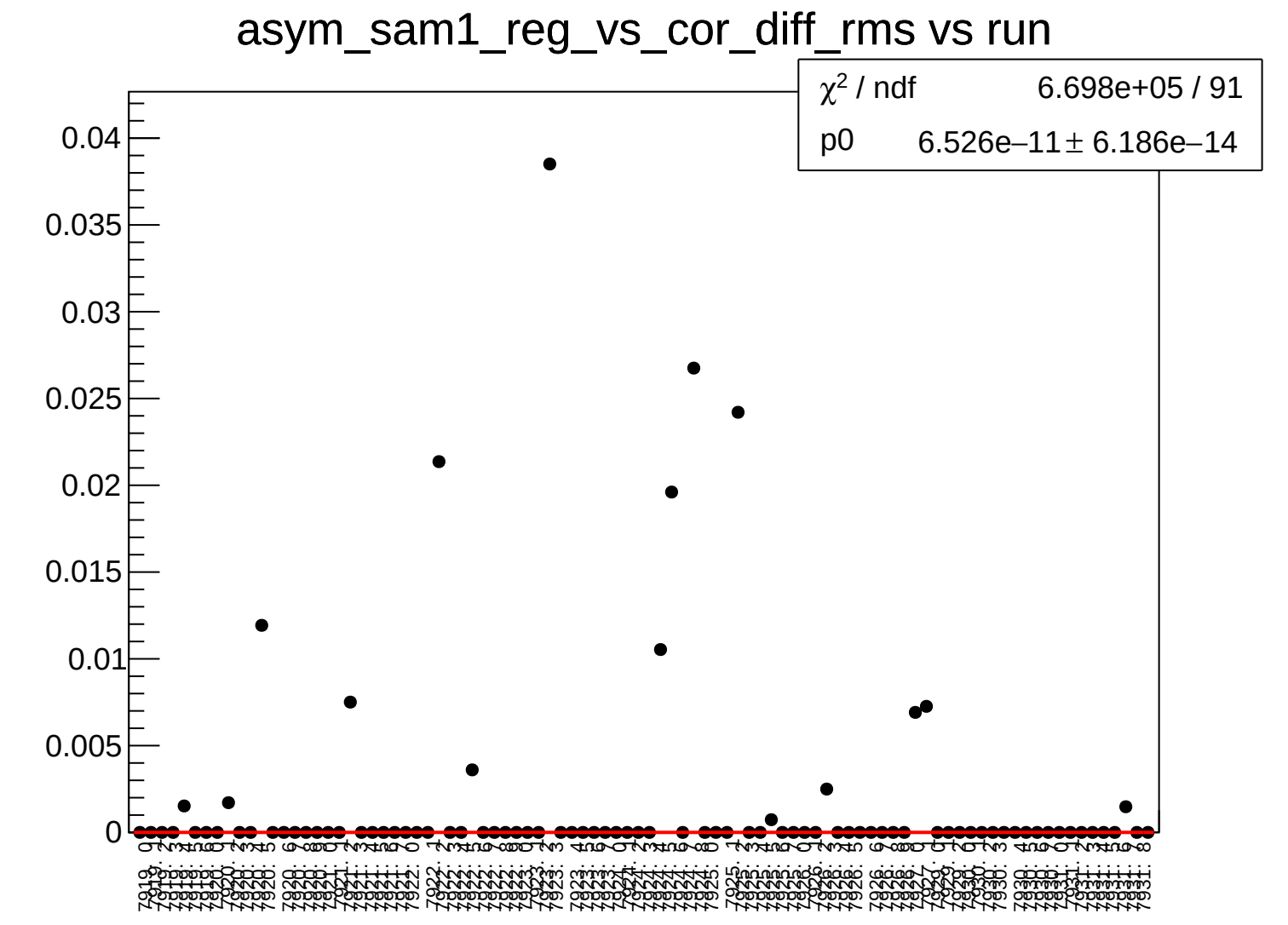

asym_sam1_eigen_dit_correction_rms vs run
χ² / ndf 1.376e+04 / 91
p0 418.7 ± 0.3148
550
500
450
400
350

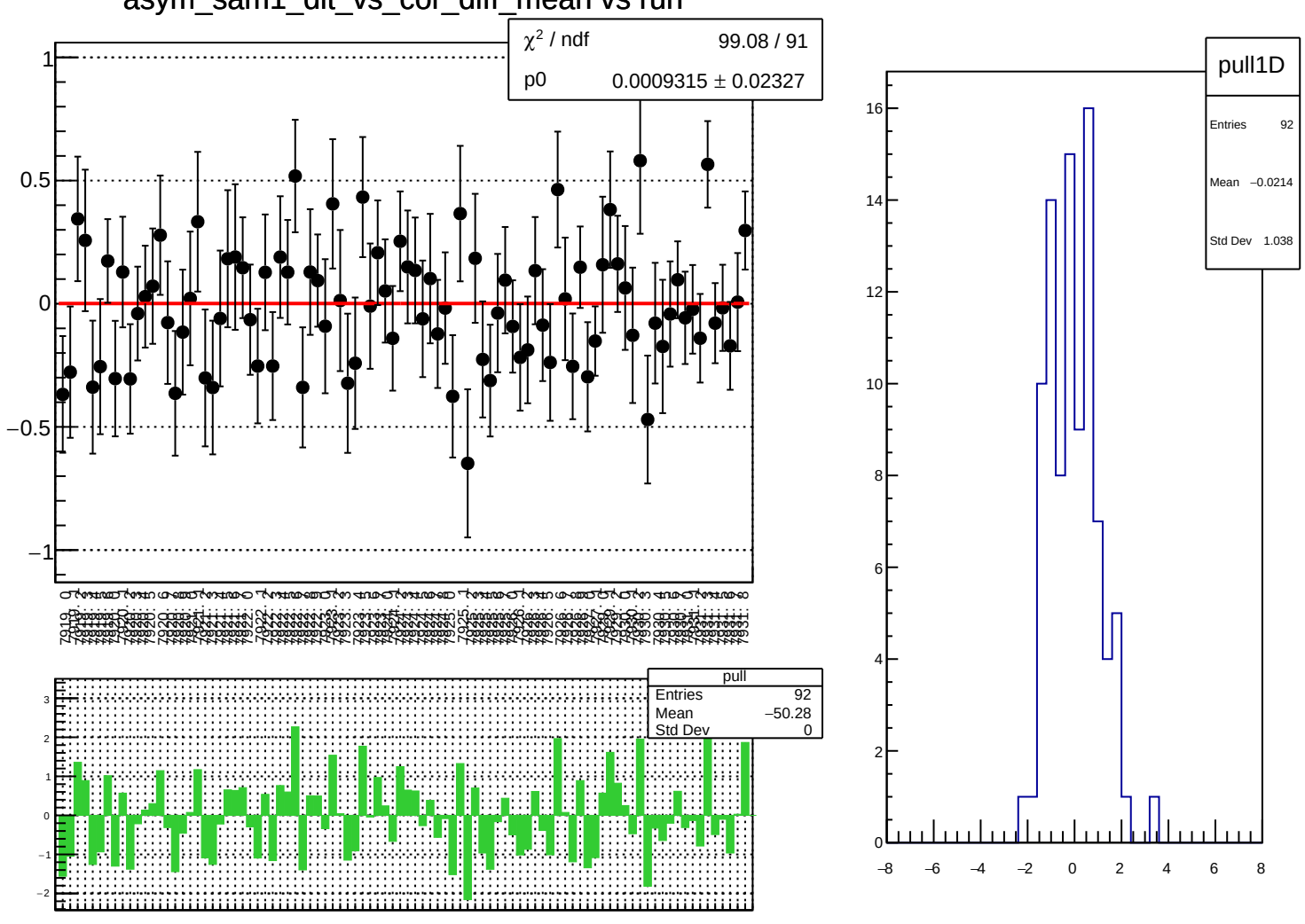

asym_sam1_mean vs run
χ² / ndf 92.21 / 91
p0 280 ± 439.9
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 92
Mean 117.6
Std Dev 196.3
2
1
0
−1
−2

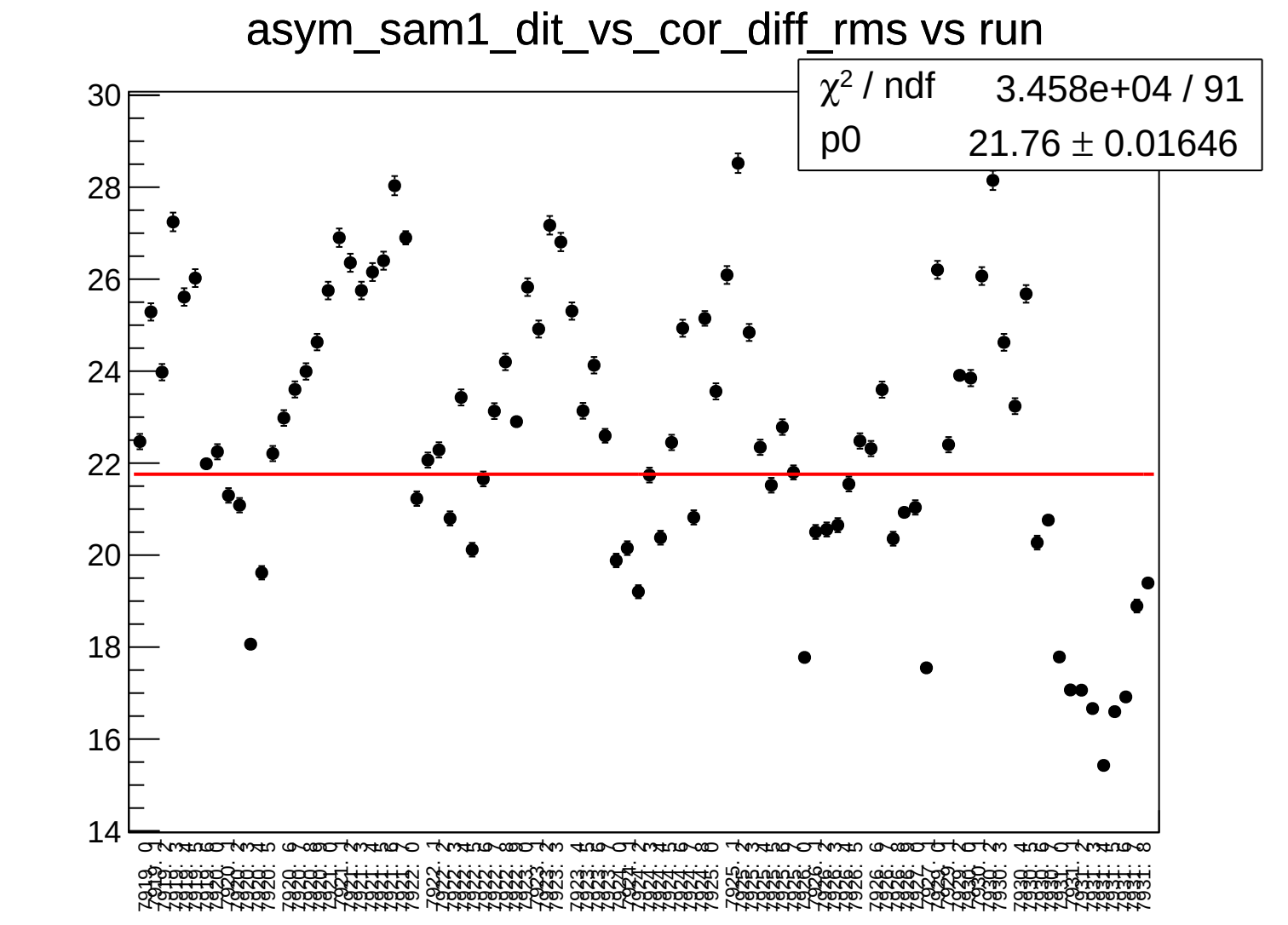

pull1D
Entries 92
Mean −0.001828
Std Dev 1.001
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

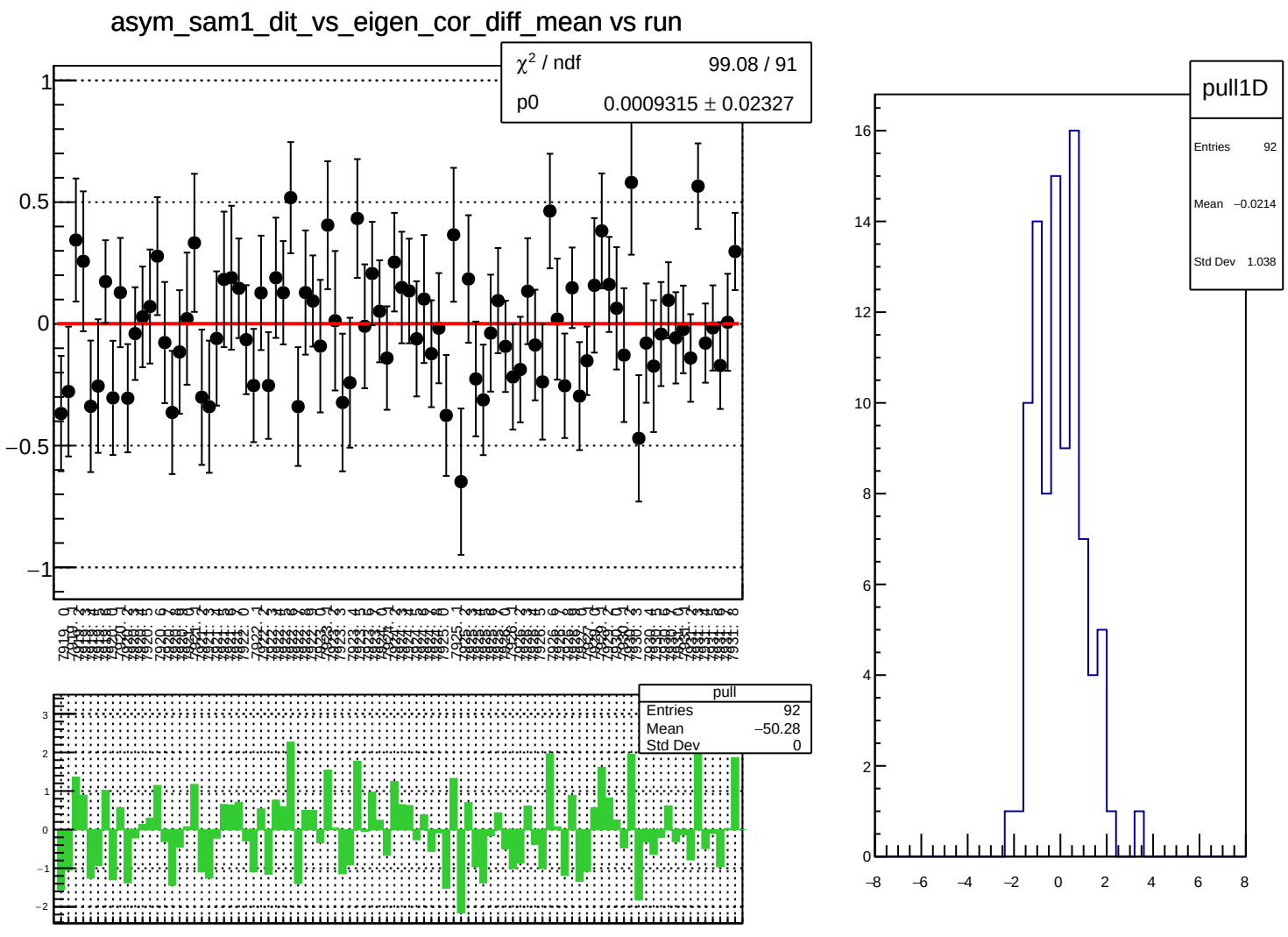

asym_sam1_rms vs run
χ² / ndf 1.26e+04 / 91
p0 413.9 ± 0.3111
540
520
500
480
460
440
420
400
380
360
340

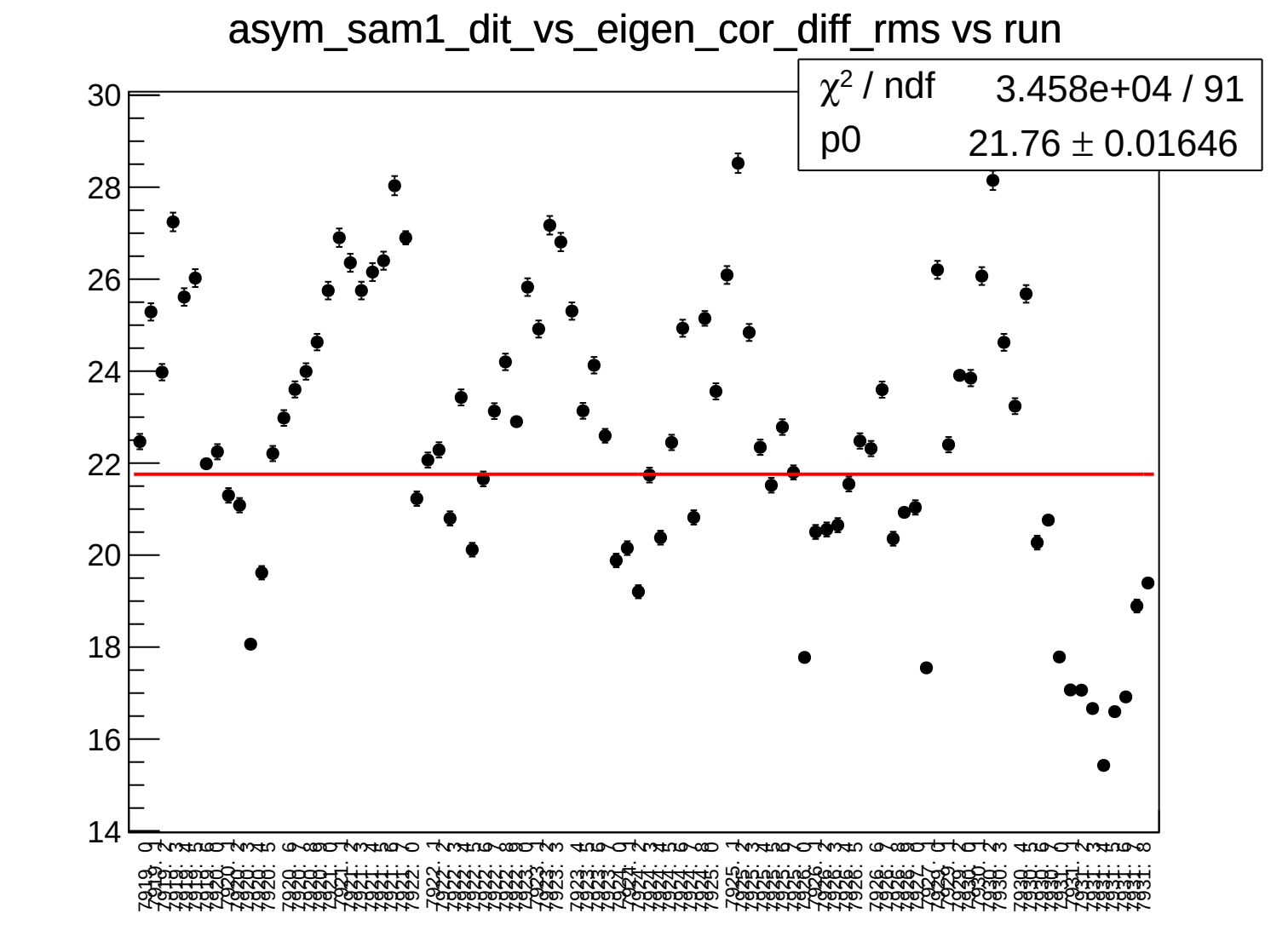

asym_sam1_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 80.54 / 91
p0 −1.841e−13 ± 8.748e−14
0.6
0.4
0.2
0
−0.2
−0.4
pull
Entries 92
Mean 14.66
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.04307
Std Dev 0.9346
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

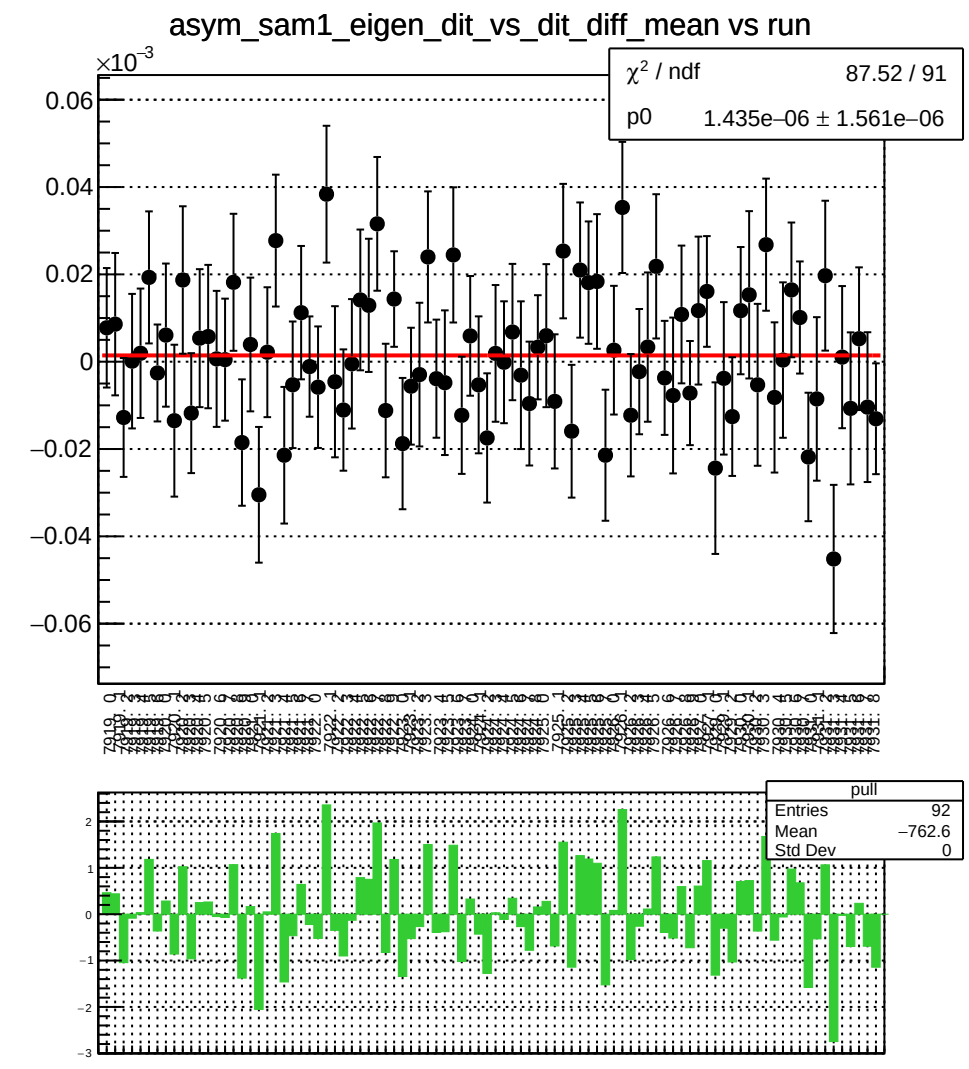

asym_sam1_reg_vs_cor_diff_rms vs run
χ² / ndf 6.698e+05 / 91
p0 6.526e−11 ± 6.186e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

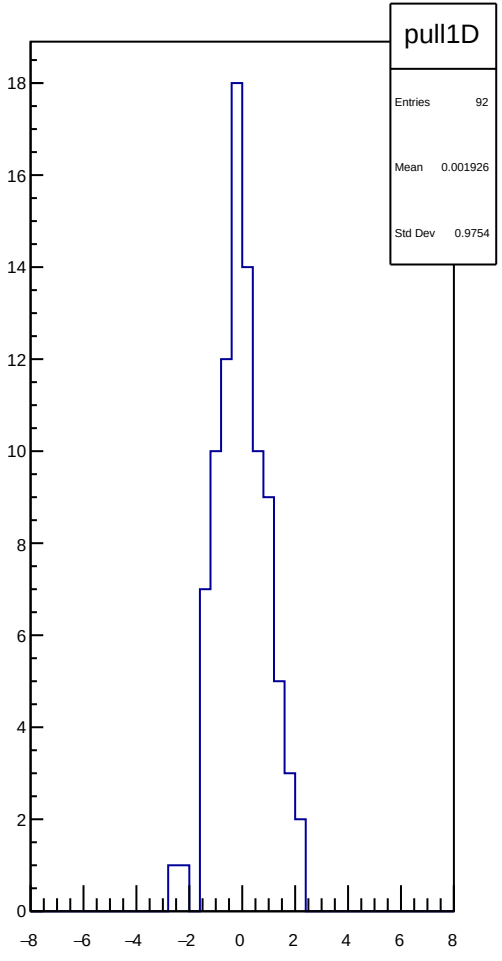

asym_sam1_dit_vs_cor_diff_mean vs run
χ² / ndf 99.08 / 91
p0 0.0009315 ± 0.02327
pull
Entries 92
Mean −50.28
Std Dev 0
pull1D
Entries 92
Mean −0.0214
Std Dev 1.038

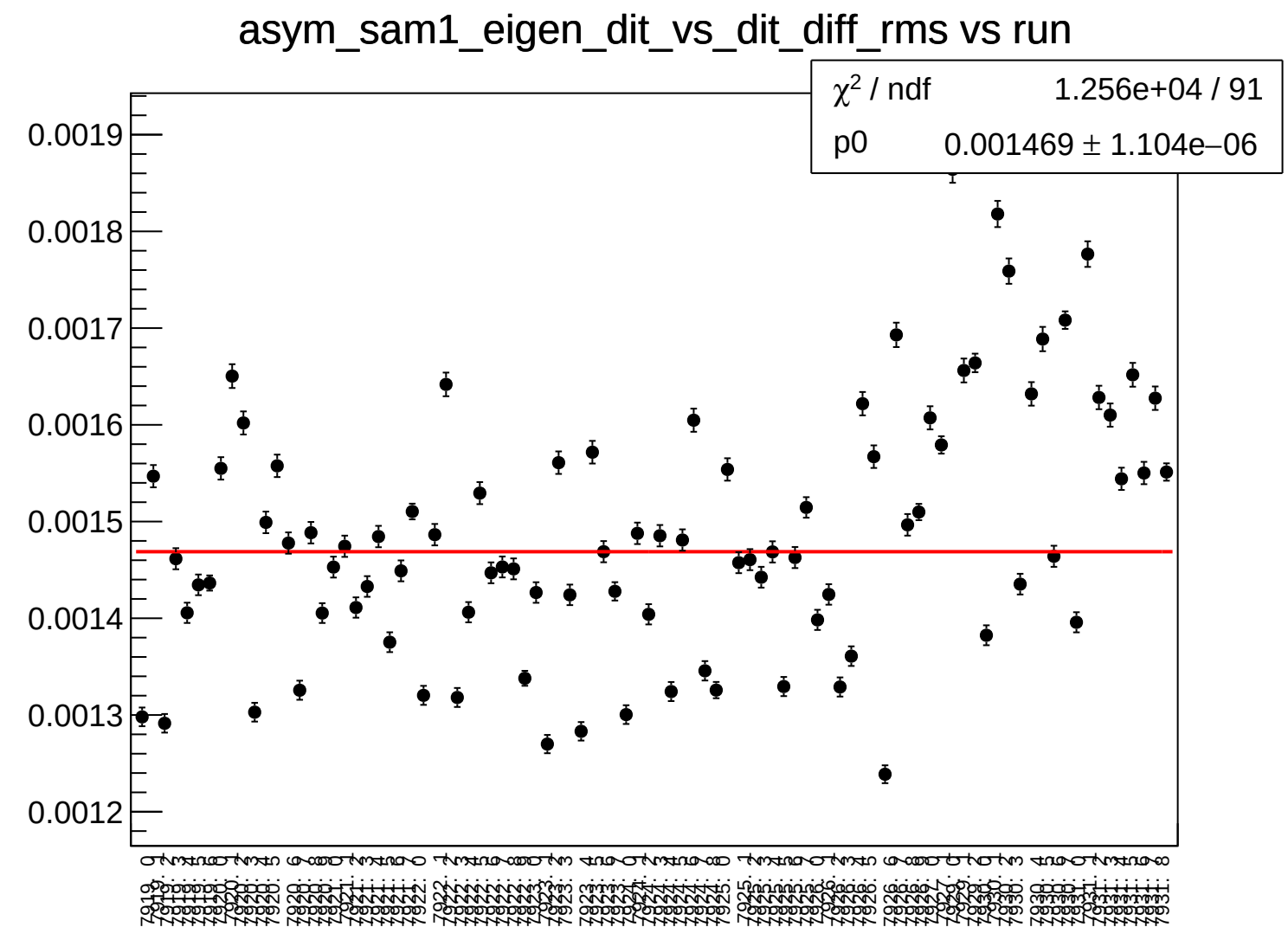

asym_sam1_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.458e+04 / 91
p0 21.76 ± 0.01646
30
28
26
24
22
20
18
16
14

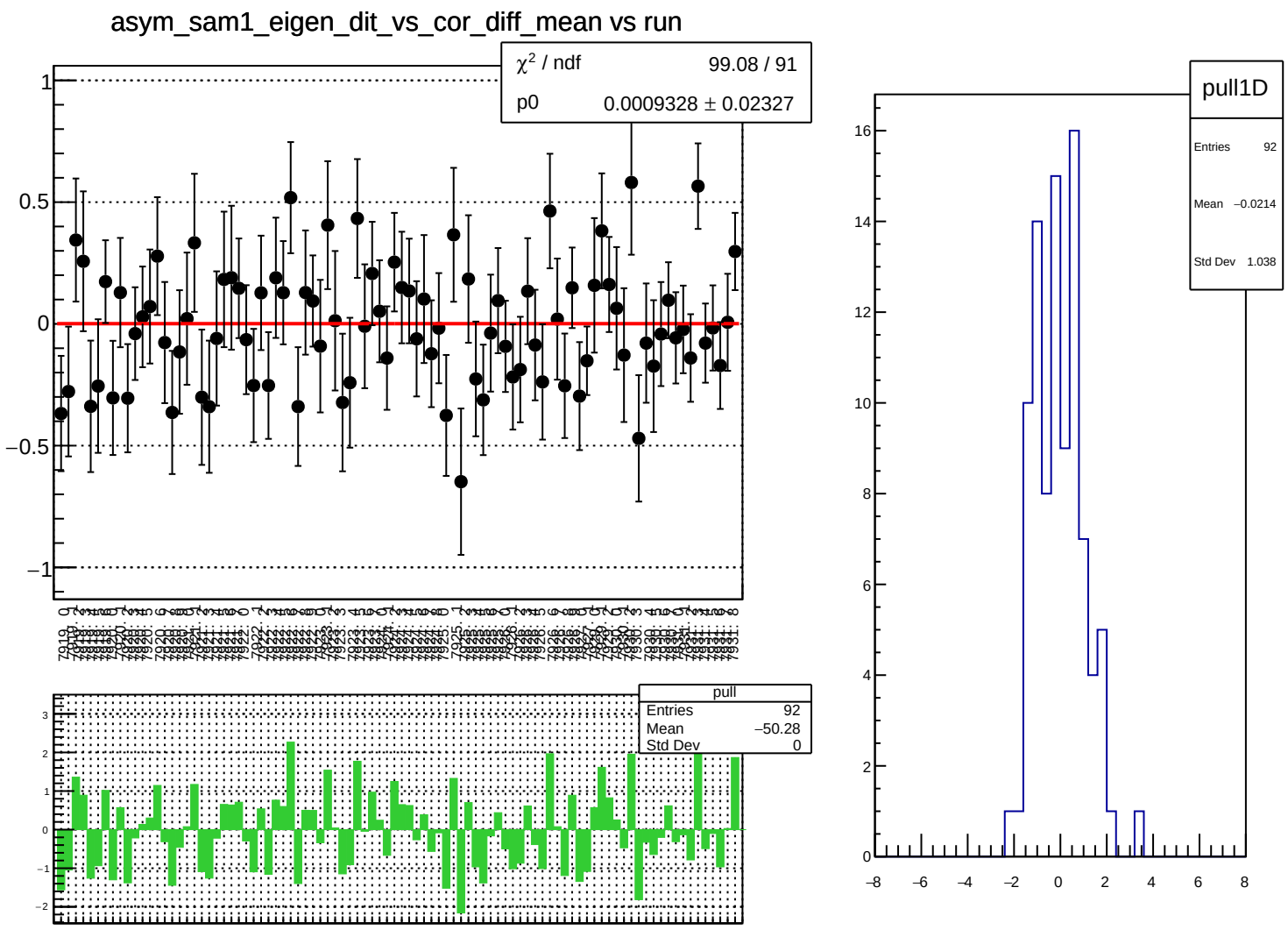

asym_sam1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.08 / 91
p0 0.0009315 ± 0.02327
pull
Entries 92
Mean −50.28
Std Dev 0
pull1D
Entries 92
Mean −0.0214
Std Dev 1.038

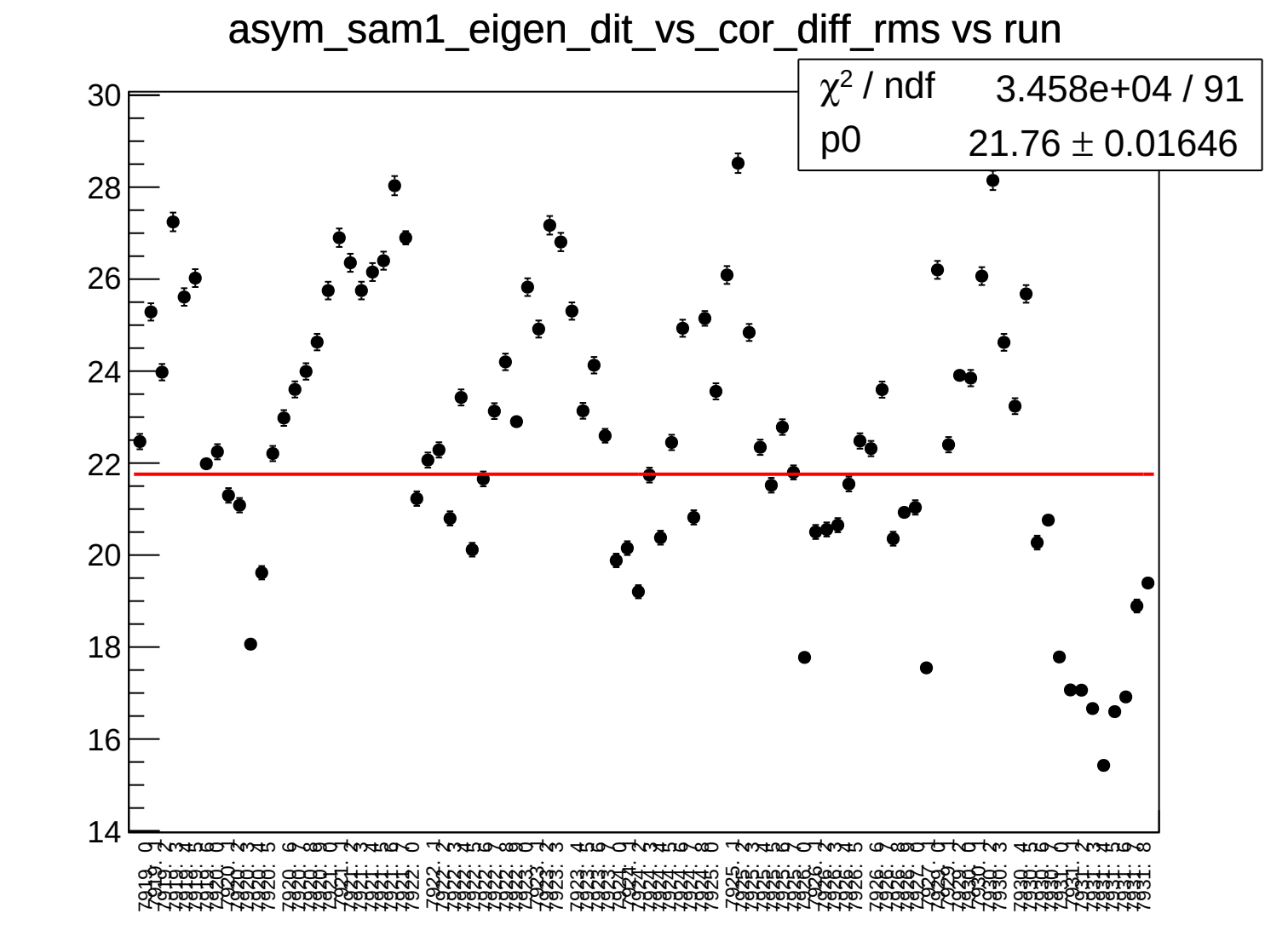

asym_sam1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.458e+04 / 91
p0 21.76 ± 0.01646
30
28
26
24
22
20
18
16
14

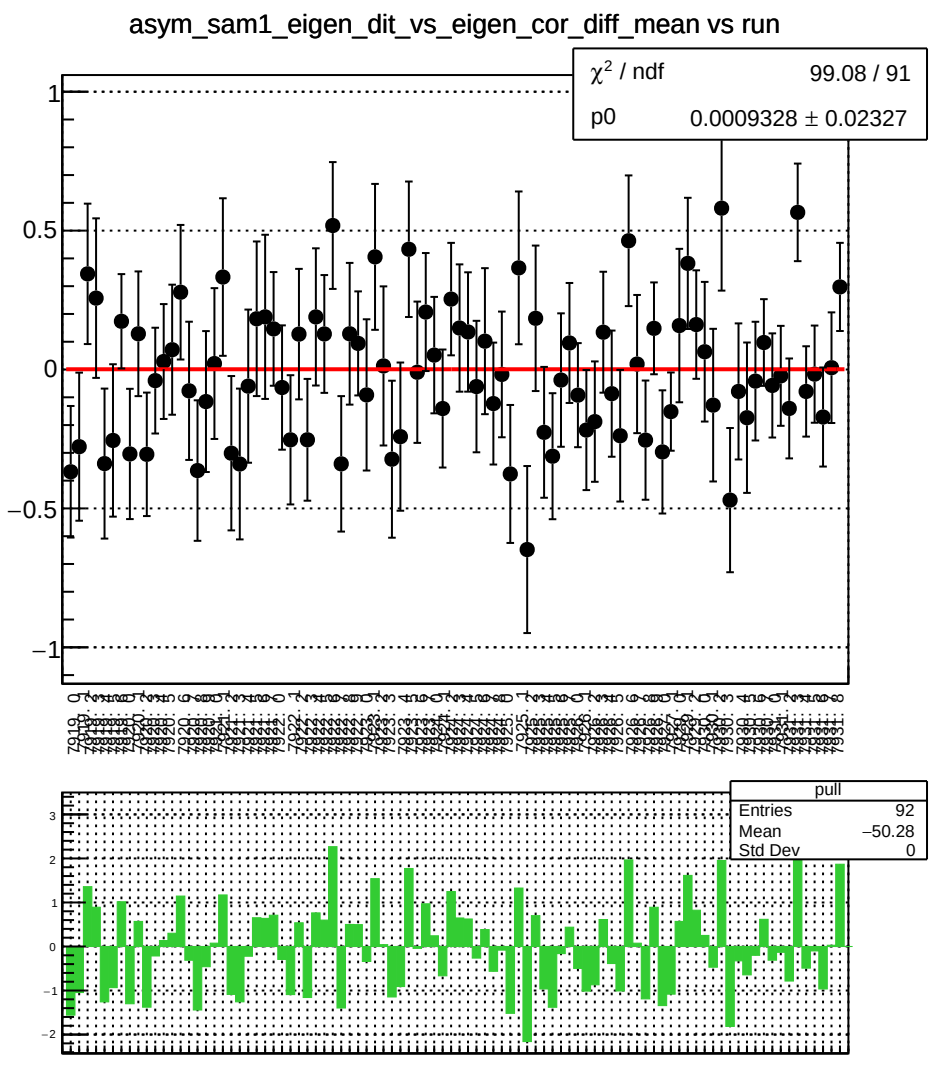

asym_sam1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.52 / 91
p0 1.435e−06 ± 1.561e−06
pull
Entries 92
Mean −762.6
Std Dev 0

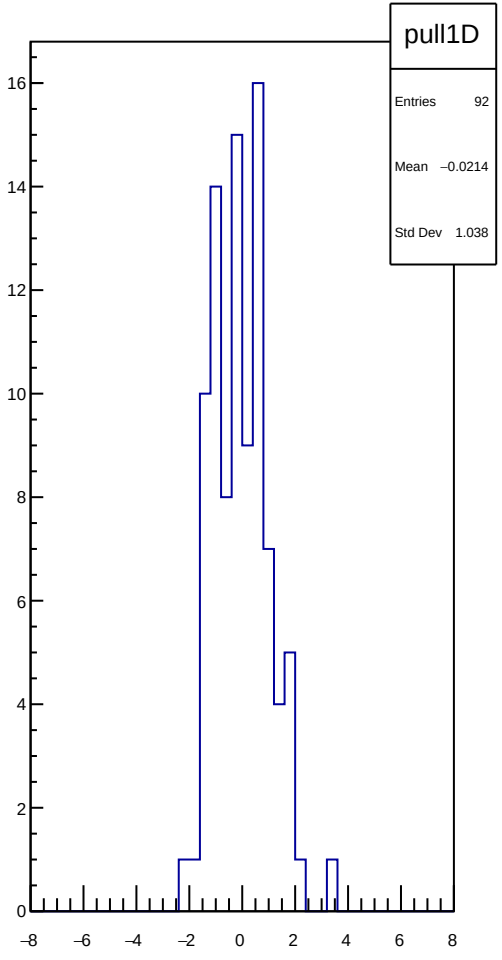

pull1D
Entries 92
Mean 0.001926
Std Dev 0.9754

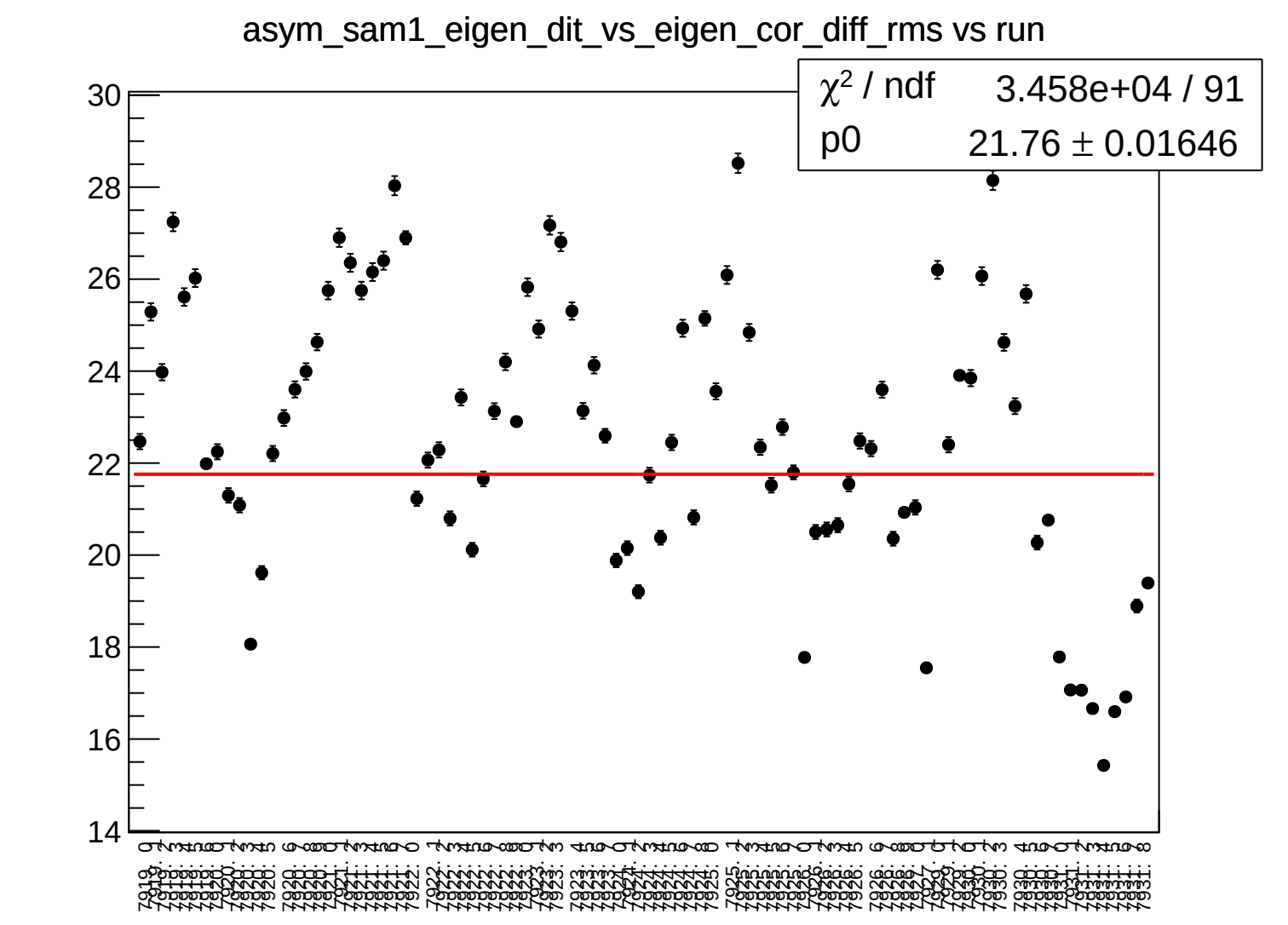

asym_sam1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.256e+04 / 91
p0 0.001469 ± 1.104e−06
0.0019
0.0018
0.0017
0.0016
0.0015
0.0014
0.0013
0.0012

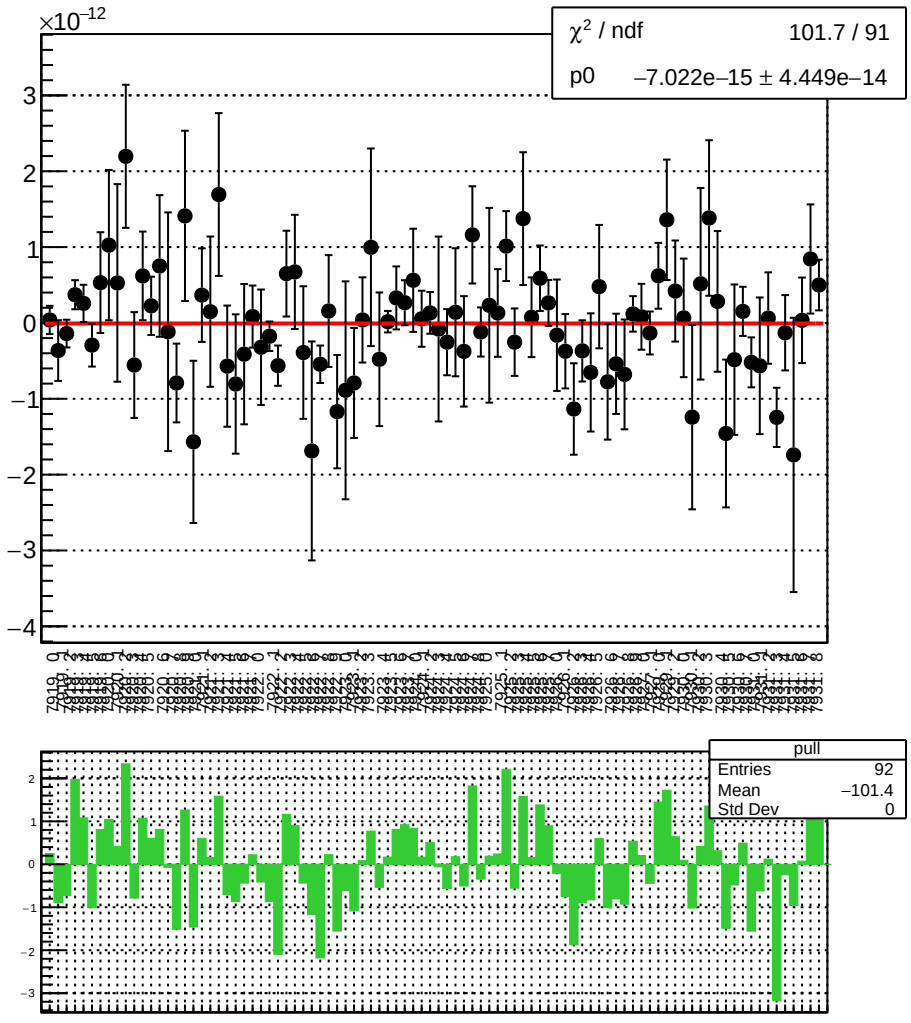

asym_sam1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 99.08 / 91
p0 0.0009328 ± 0.02327
pull
Entries 92
Mean −50.28
Std Dev 0
pull1D
Entries 92
Mean −0.0214
Std Dev 1.038

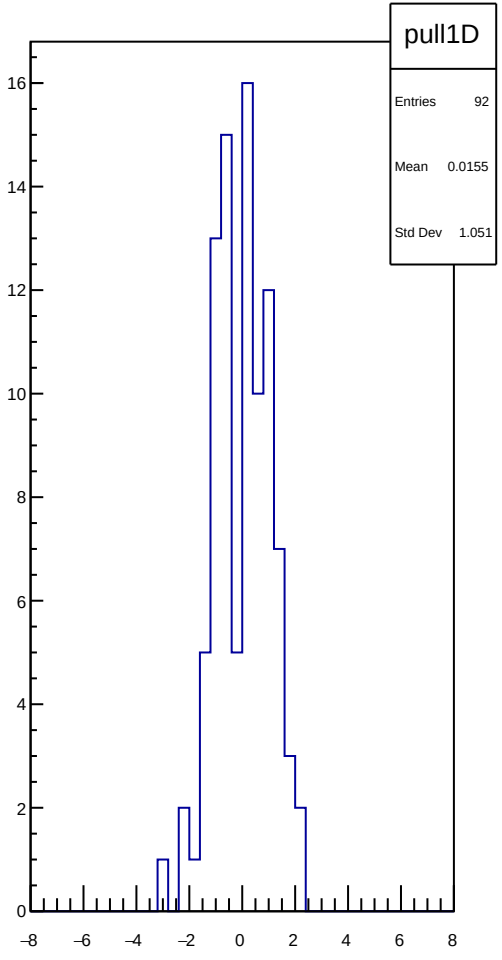

asym_sam1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.458e+04 / 91
p0 21.76 ± 0.01646
30
28
26
24
22
20
18
16
14

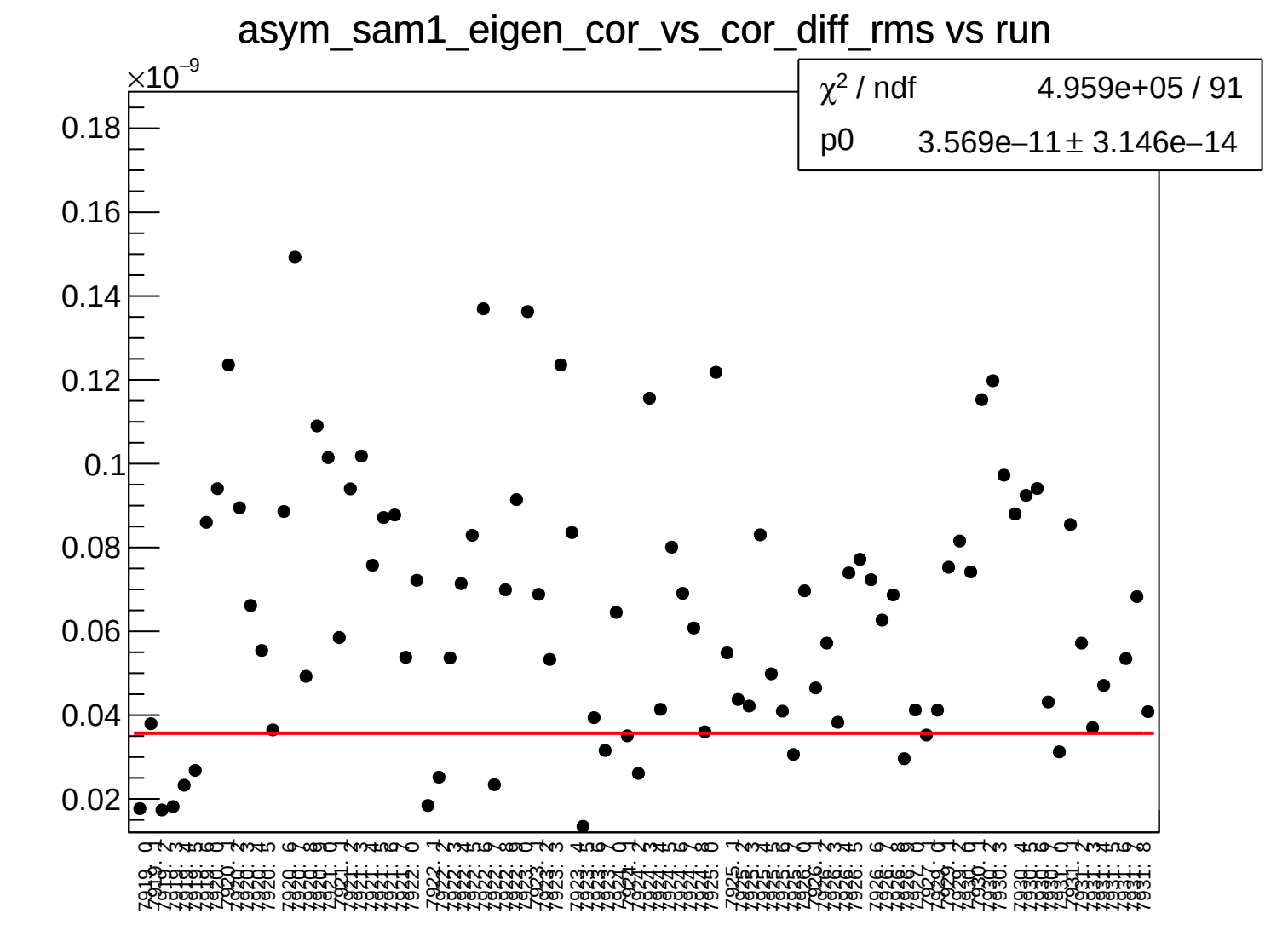

asym_sam1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.08 / 91
p0 0.0009328 ± 0.02327
pull
Entries 92
Mean −50.28
Std Dev 0

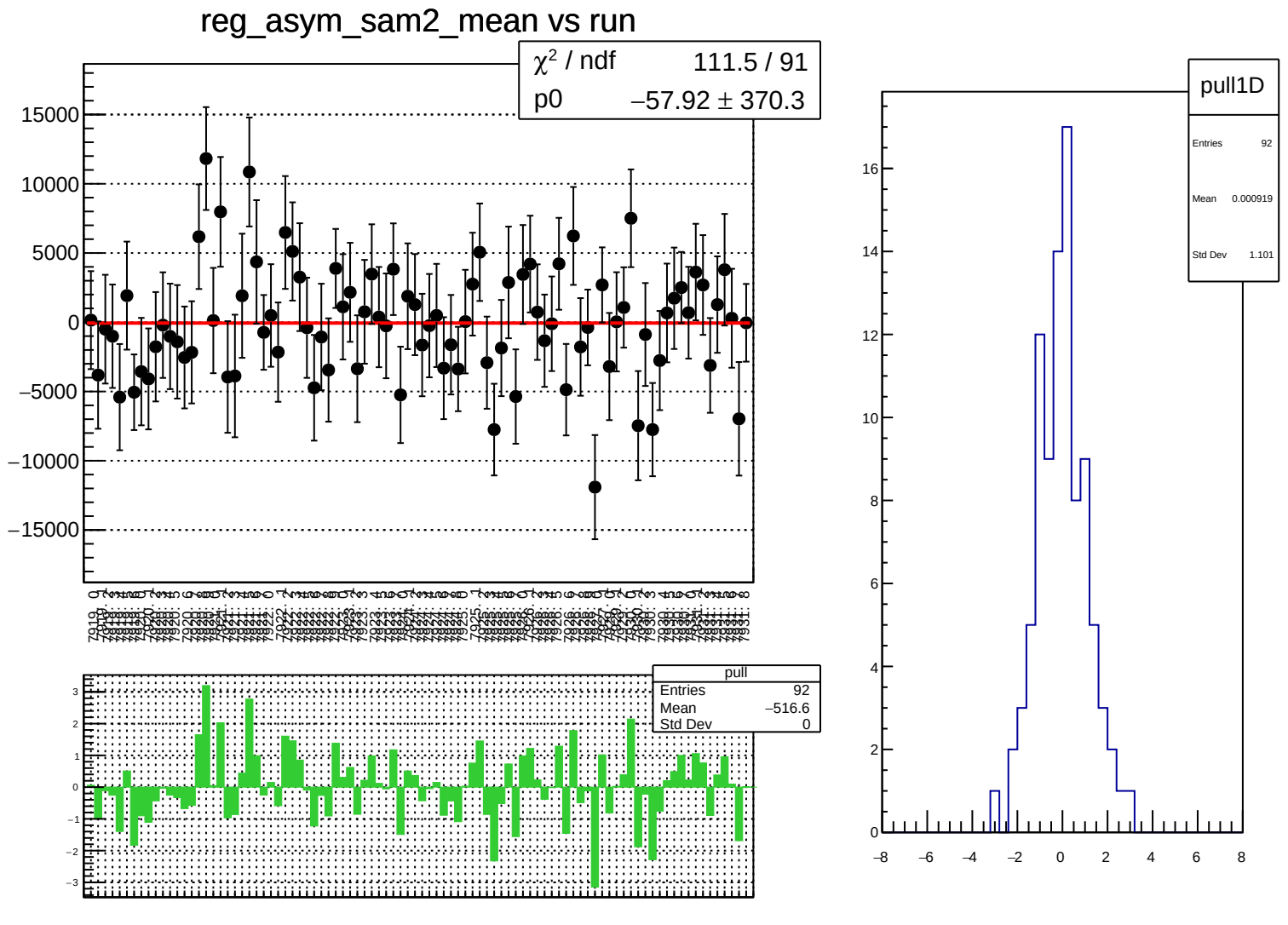

pull1D
Entries 92
Mean −0.0214
Std Dev 1.038

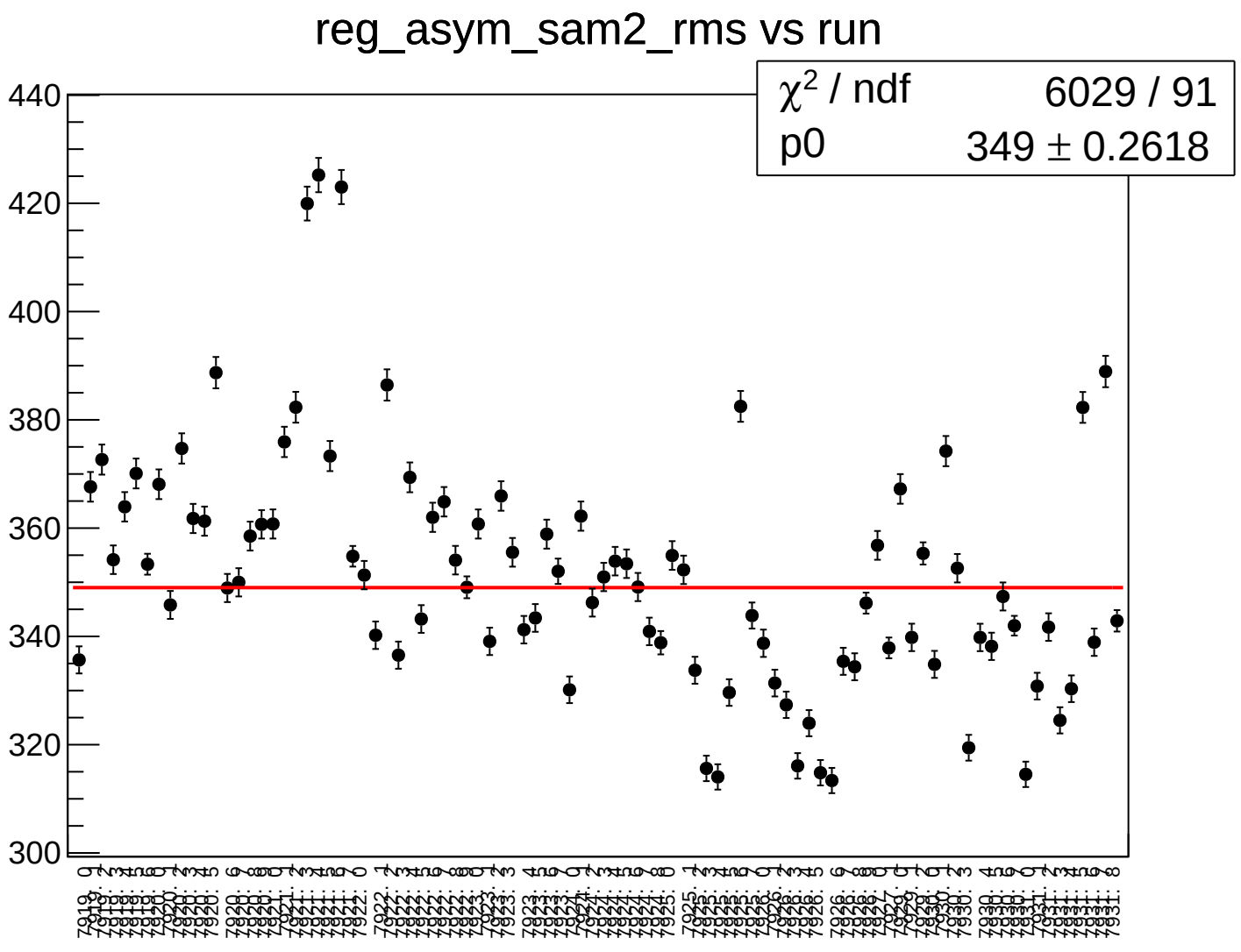

asym_sam1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.458e+04 / 91
p0 21.76 ± 0.01646
30
28
26
24
22
20
18
16
14

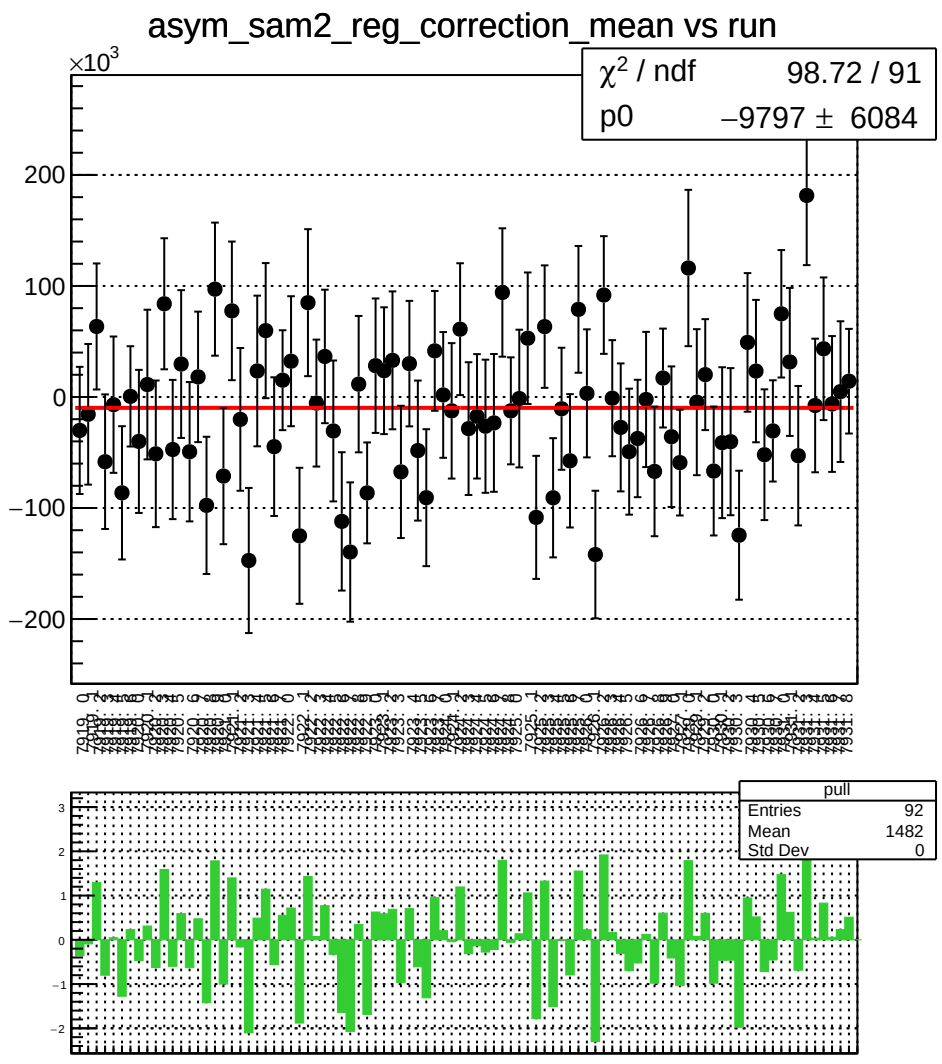

asym_sam1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 101.7 / 91
p0 −7.022e−15 ± 4.449e−14
pull
Entries 92
Mean −101.4
Std Dev 0

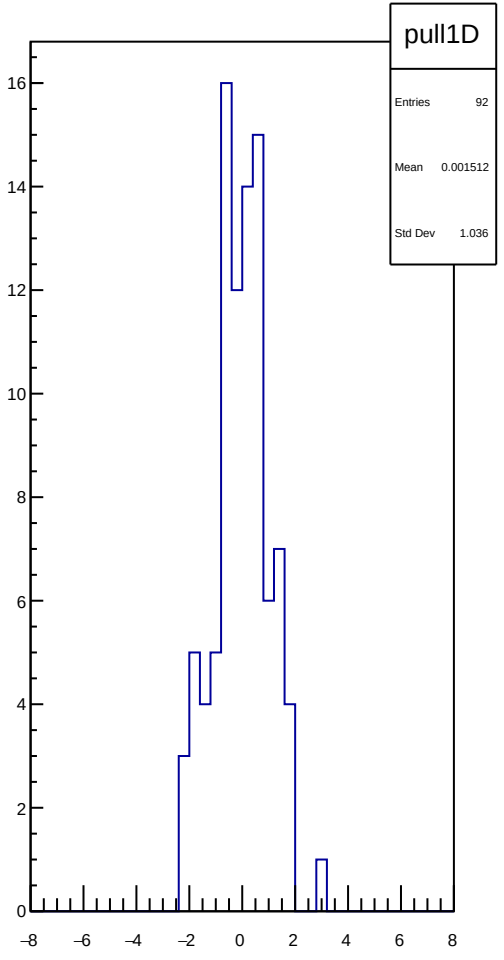

pull1D
Entries 92
Mean 0.0155
Std Dev 1.051

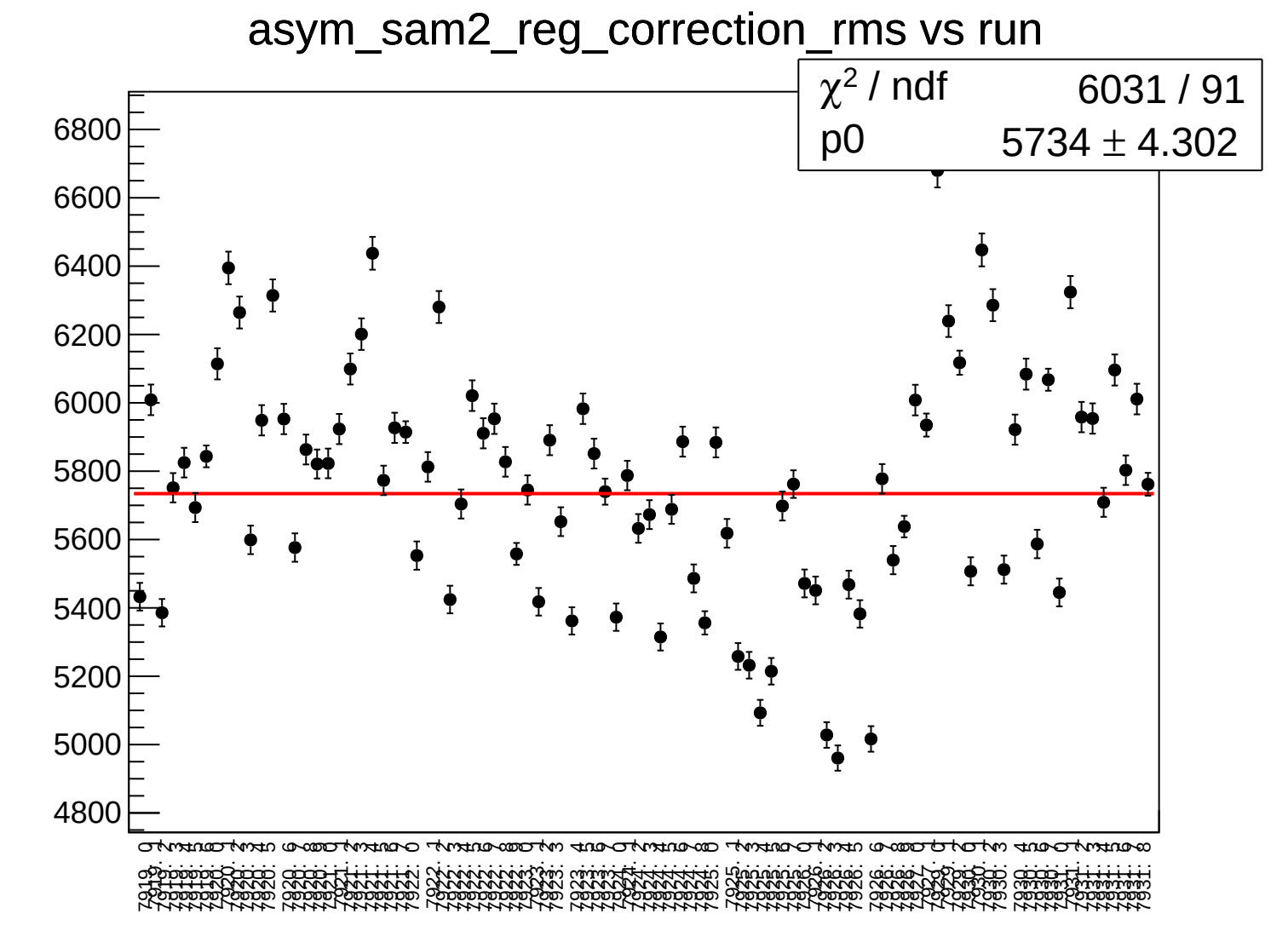

asym_sam1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.959e+05 / 91
p0 3.569e−11 ± 3.146e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

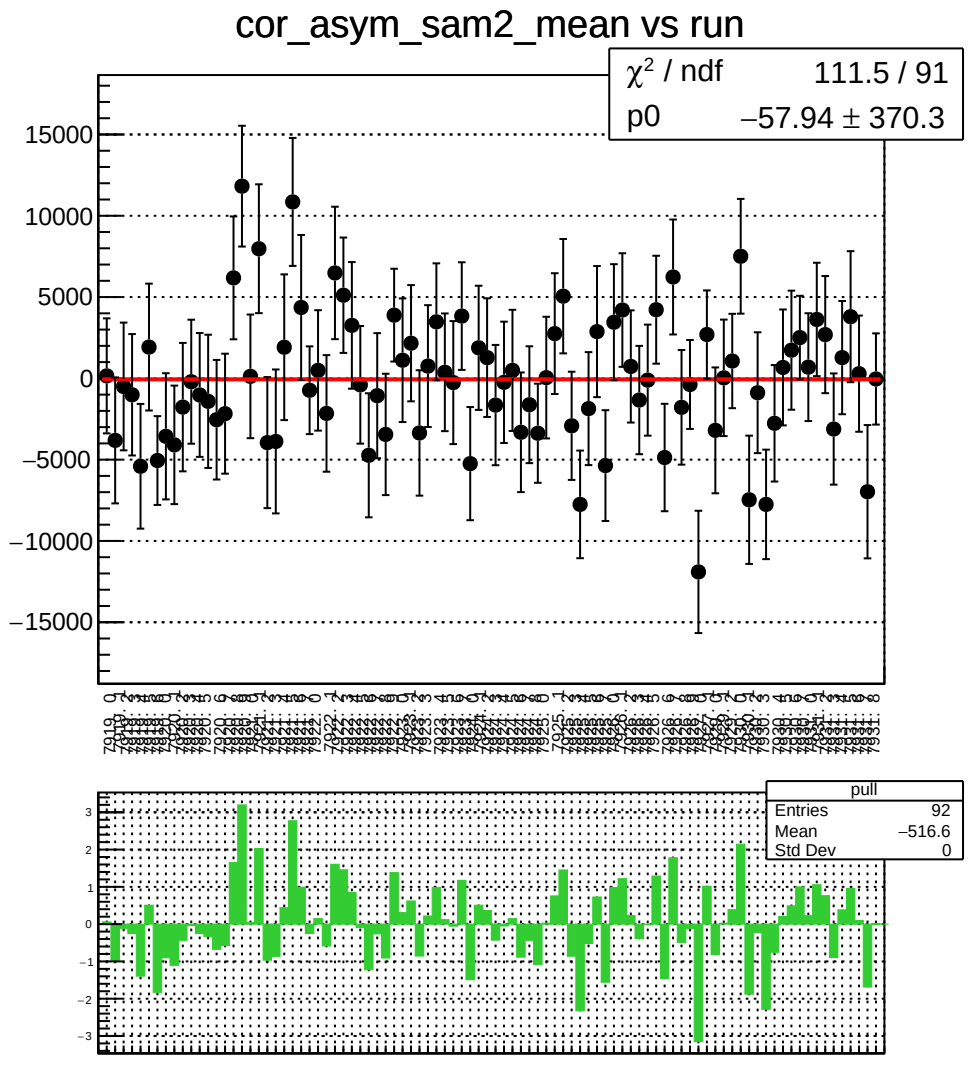

reg_asym_sam2_mean vs run
χ² / ndf 111.5 / 91
p0 −57.92 ± 370.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean −516.6
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean 0.000919
Std Dev 1.101
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

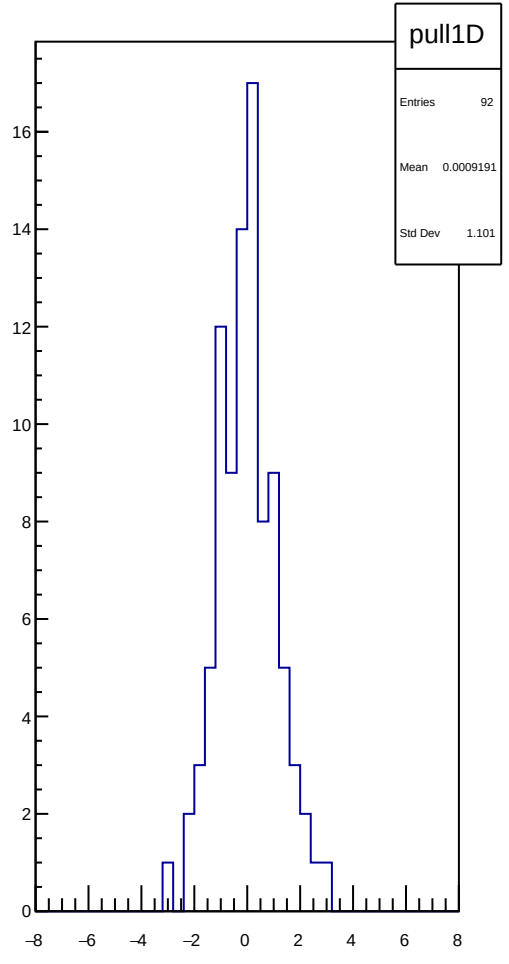

reg_asym_sam2_rms vs run
χ^2 / ndf 6029 / 91
p0 349 ± 0.2618
440
420
400
380
360
340
320
300

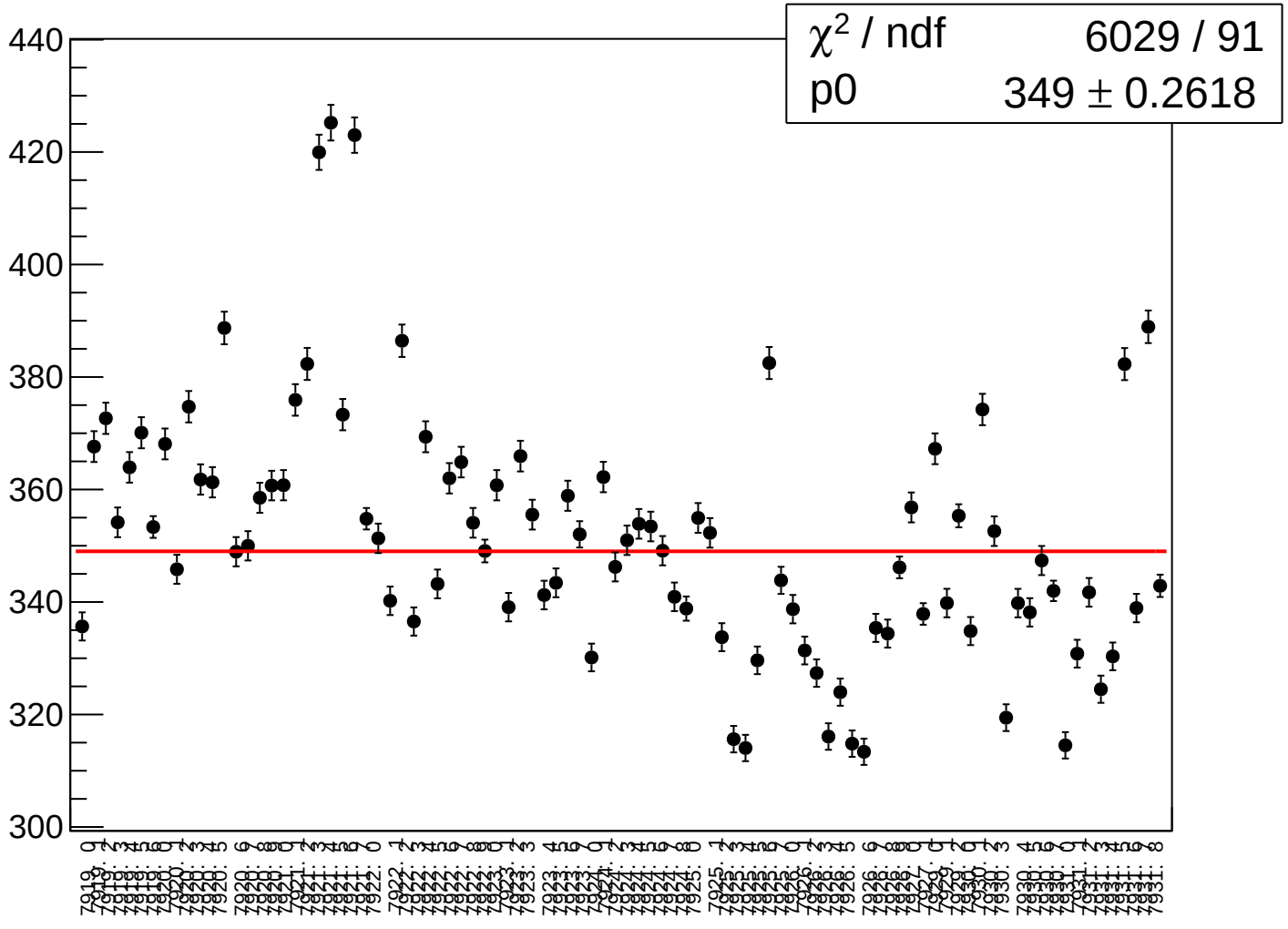

asym_sam2_reg_correction_mean vs run
χ² / ndf 98.72 / 91
p0 −9797 ± 6084
×10³
pull
Entries 92
Mean 1482
Std Dev 0

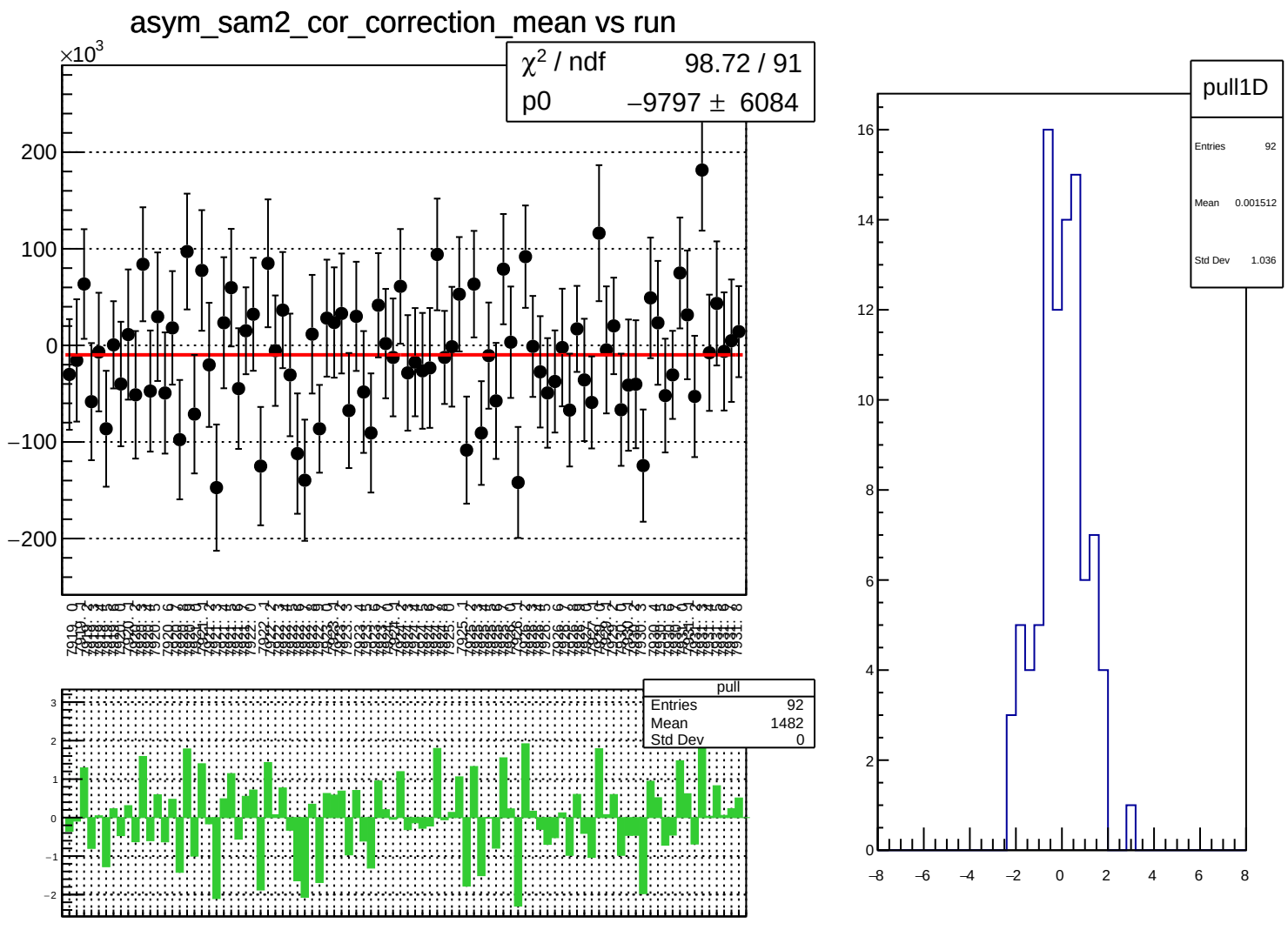

pull1D
Entries 92
Mean 0.001512
Std Dev 1.036

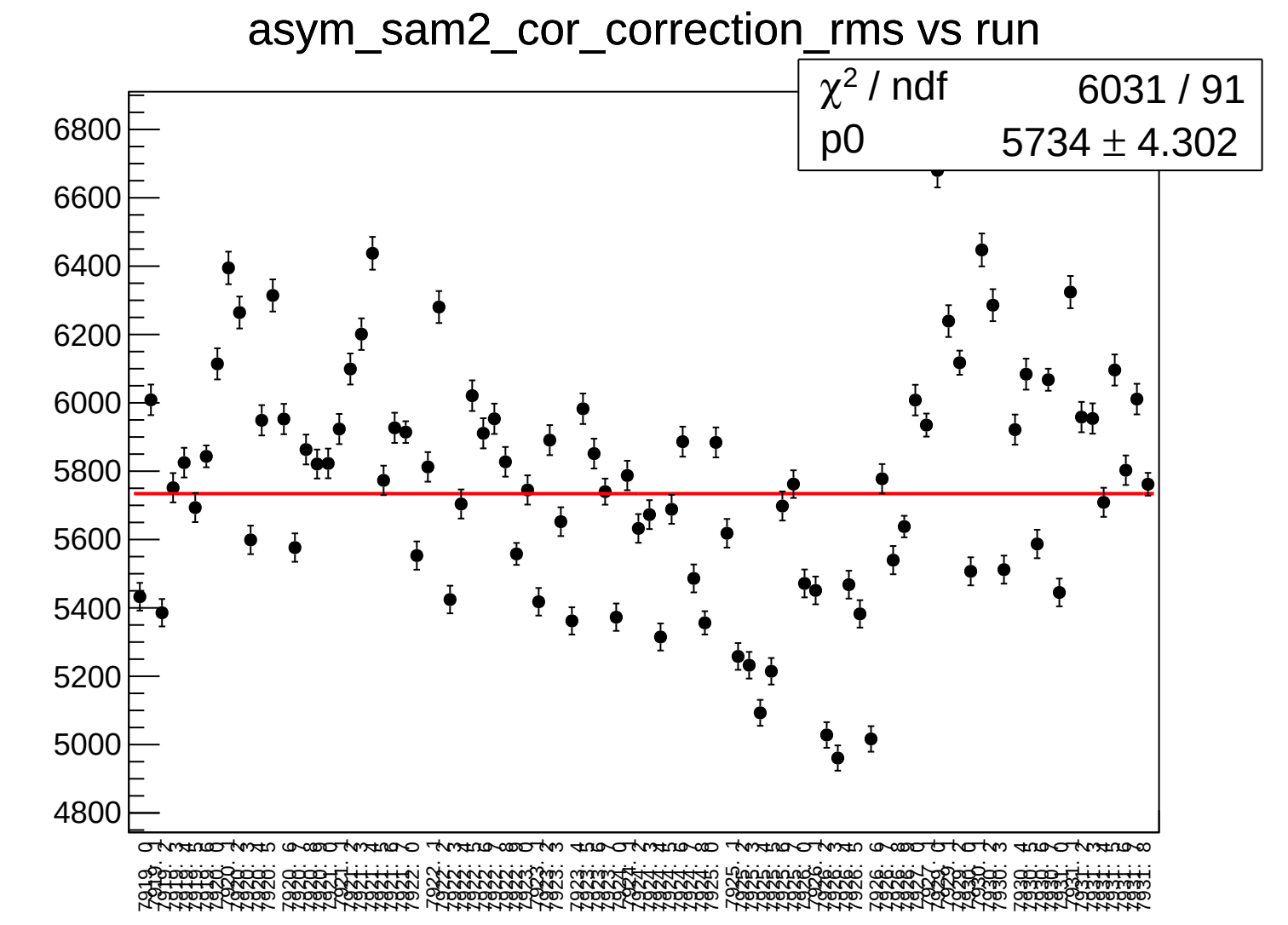

asym_sam2_reg_correction_rms vs run
χ² / ndf 6031 / 91
p0 5734 ± 4.302
6800
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800

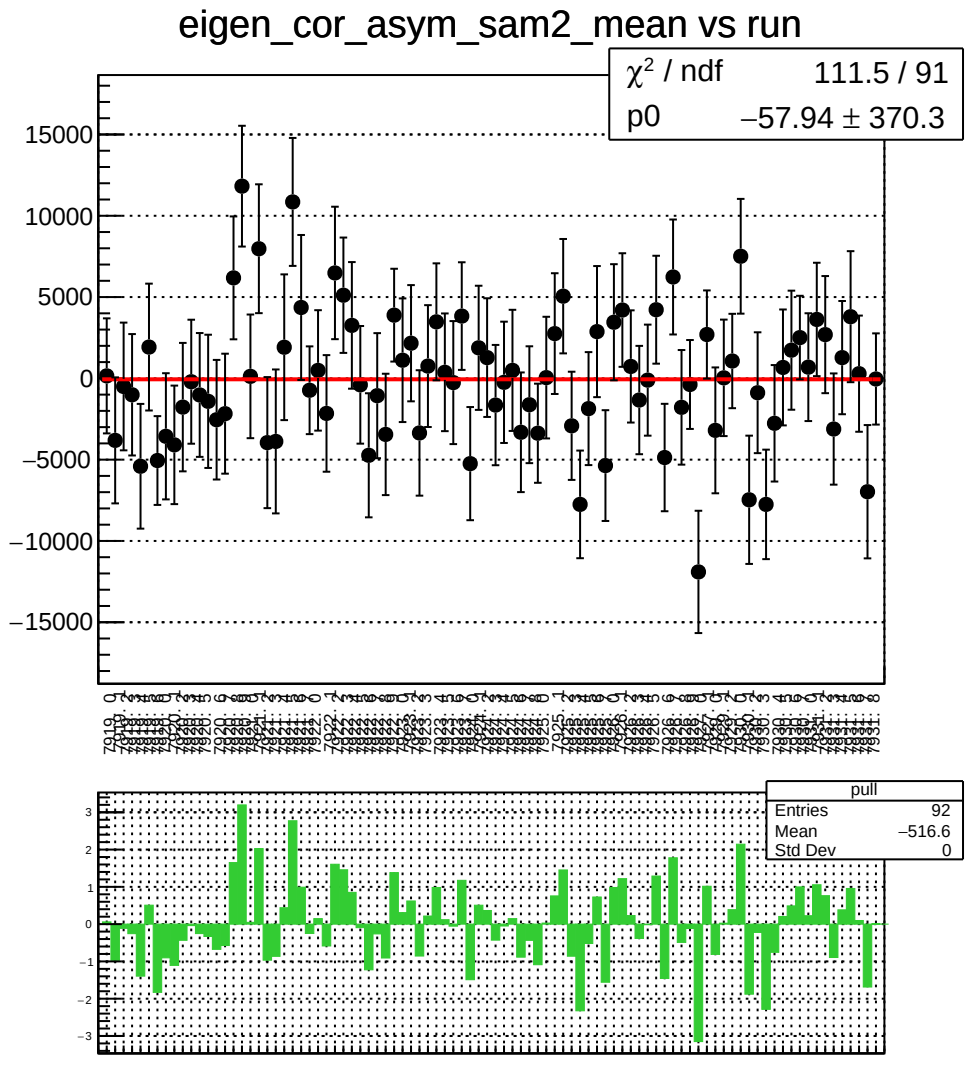

cor_asym_sam2_mean vs run
χ² / ndf 111.5 / 91
p0 −57.94 ± 370.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean −516.6
Std Dev 0
3
2
1
0
−1
−2
−3

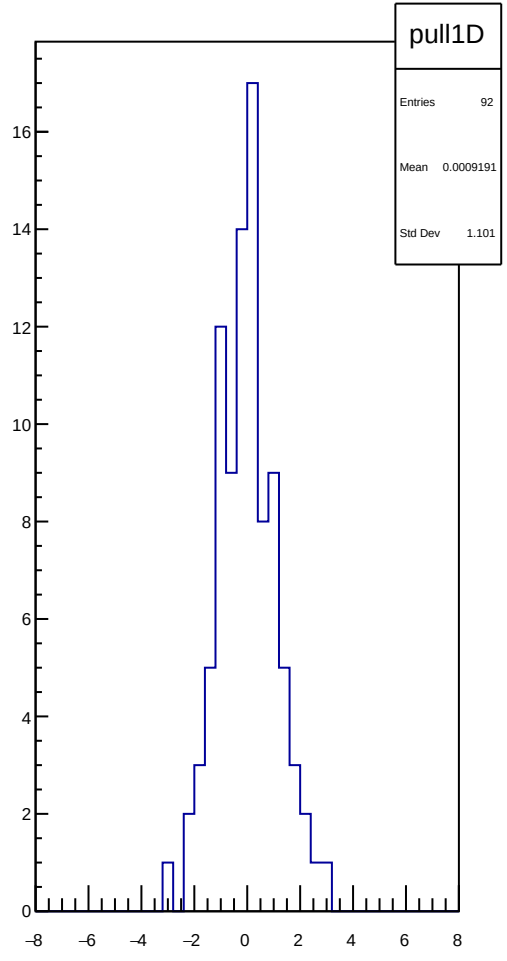

pull1D
Entries 92
Mean 0.0009191
Std Dev 1.101
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

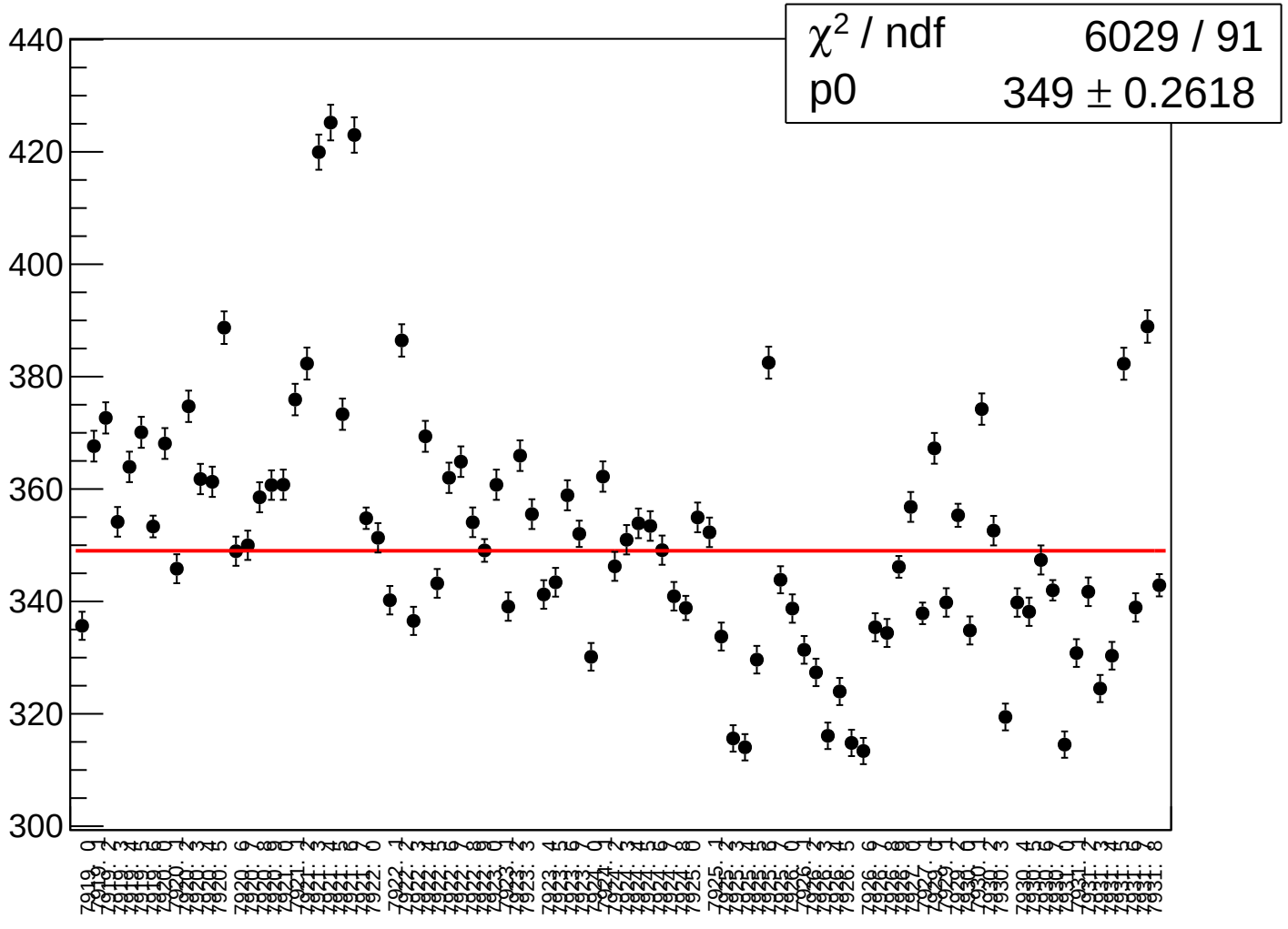

cor_asym_sam2_rms vs run
χ^2 / ndf 6029 / 91
p0 349 ± 0.2618
440
420
400
380
360
340
320
300

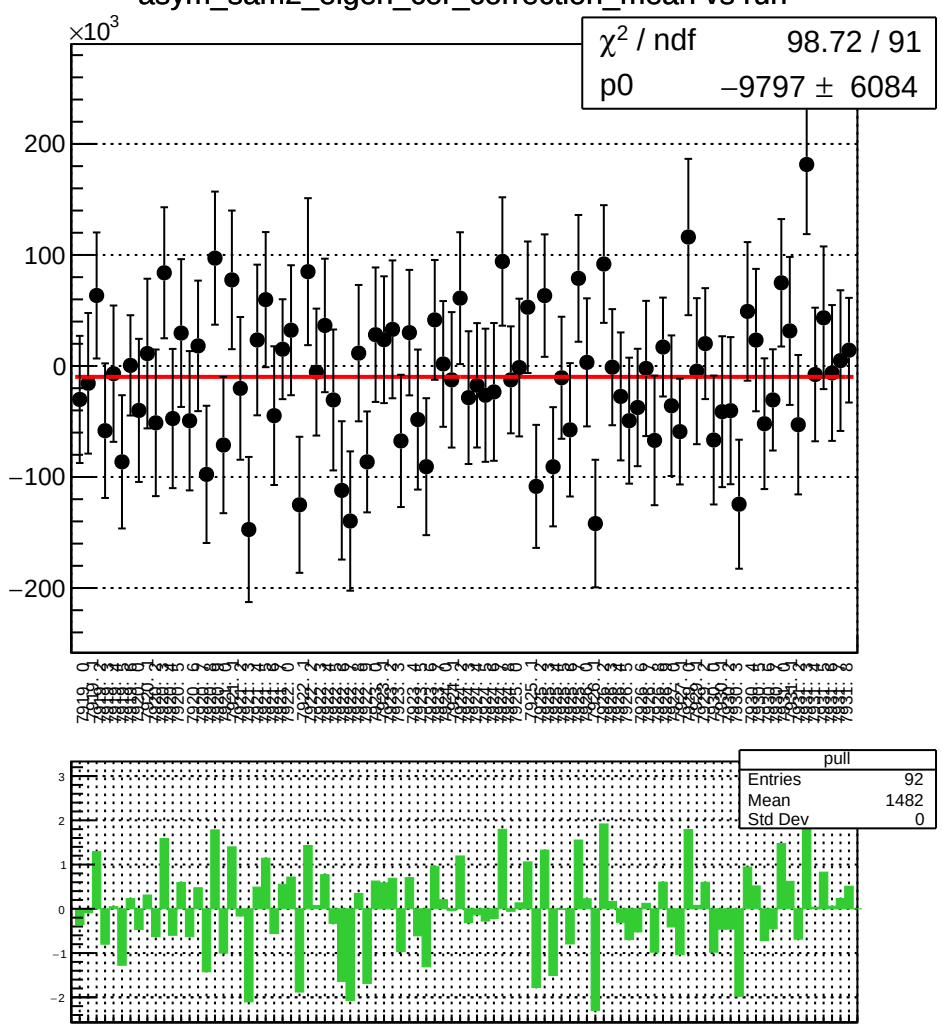

asym_sam2_cor_correction_mean vs run
χ² / ndf 98.72 / 91
p0 −9797 ± 6084
×10³
200
100
0
−100
−200
pull
Entries 92
Mean 1482
Std Dev 0
pull1D
Entries 92
Mean 0.001512
Std Dev 1.036
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

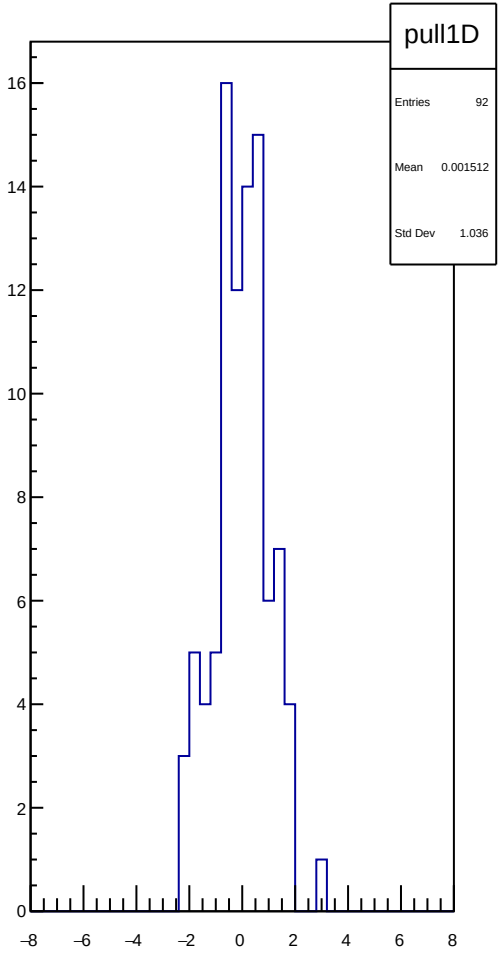

asym_sam2_cor_correction_rms vs run
χ² / ndf 6031 / 91
p0 5734 ± 4.302
6800
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800

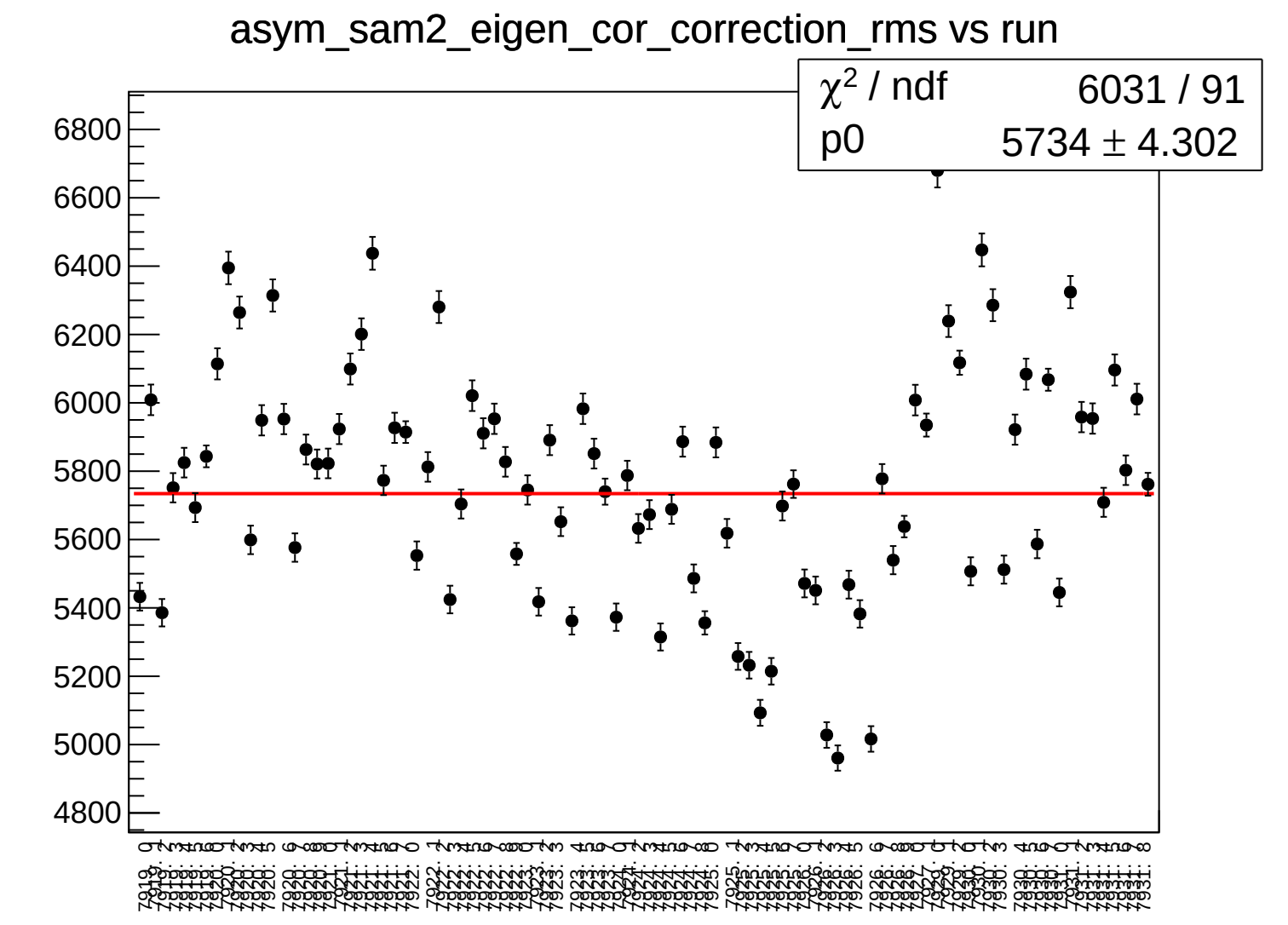

eigen_cor_asym_sam2_mean vs run
χ² / ndf 111.5 / 91
p0 −57.94 ± 370.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean −516.6
Std Dev 0
3
2
1
0
−1
−2
−3

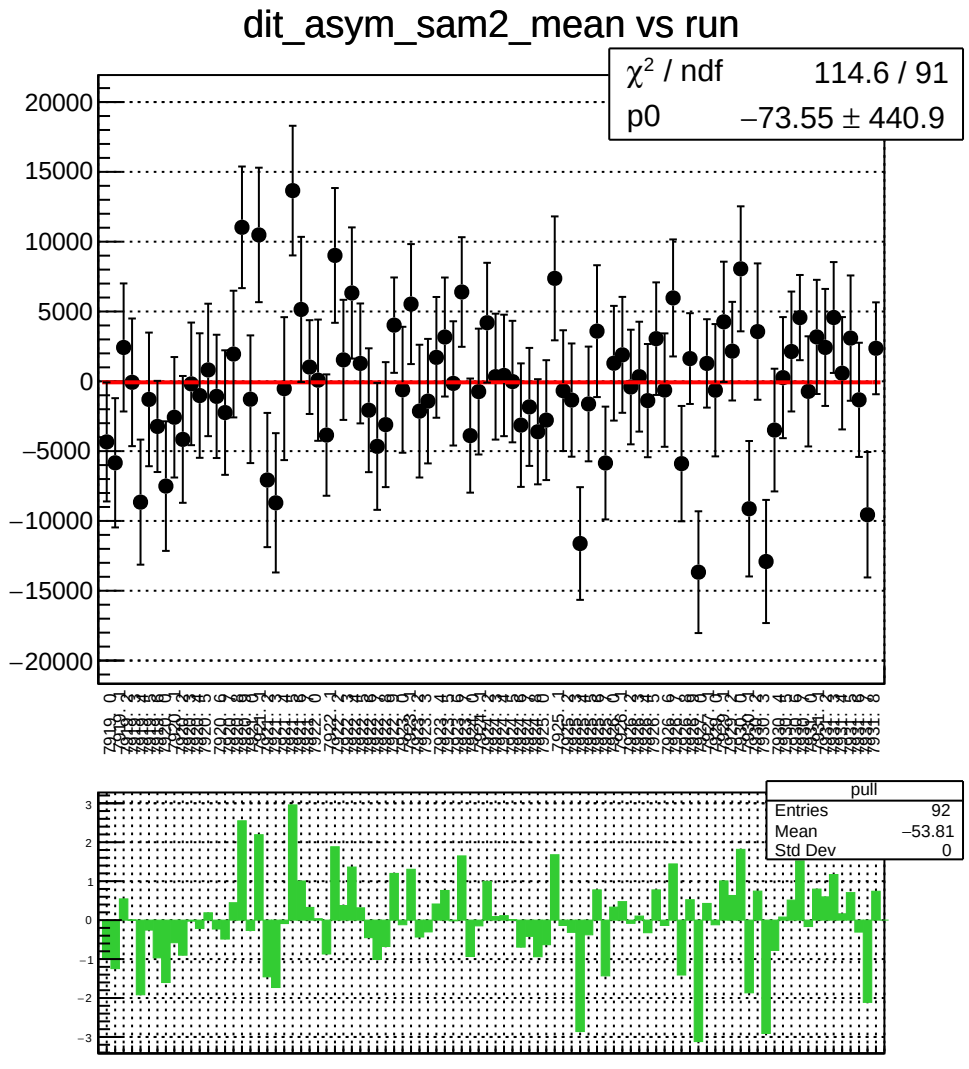

pull1D
Entries 92
Mean 0.0009191
Std Dev 1.101
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

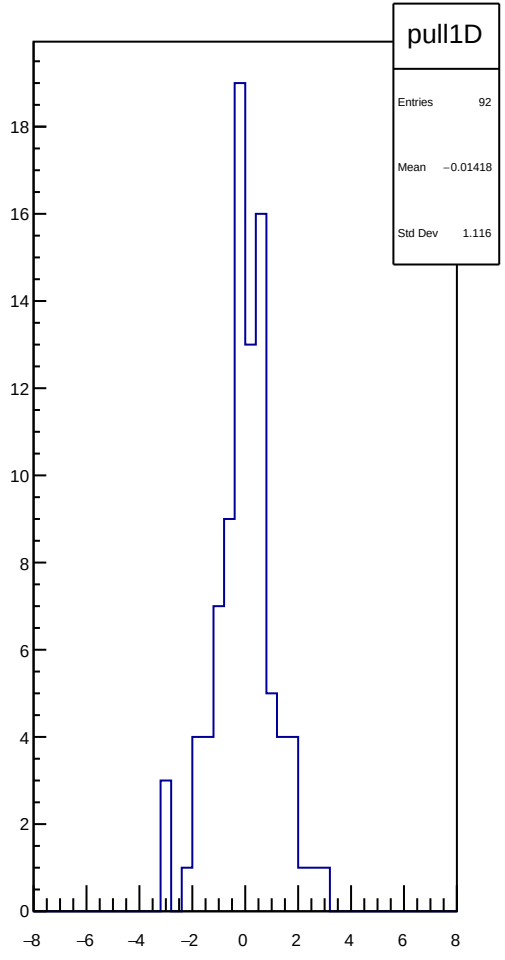

eigen_cor_asym_sam2_rms vs run
χ^2 / ndf 6029 / 91
p0 349 ± 0.2618
440
420
400
380
360
340
320
300

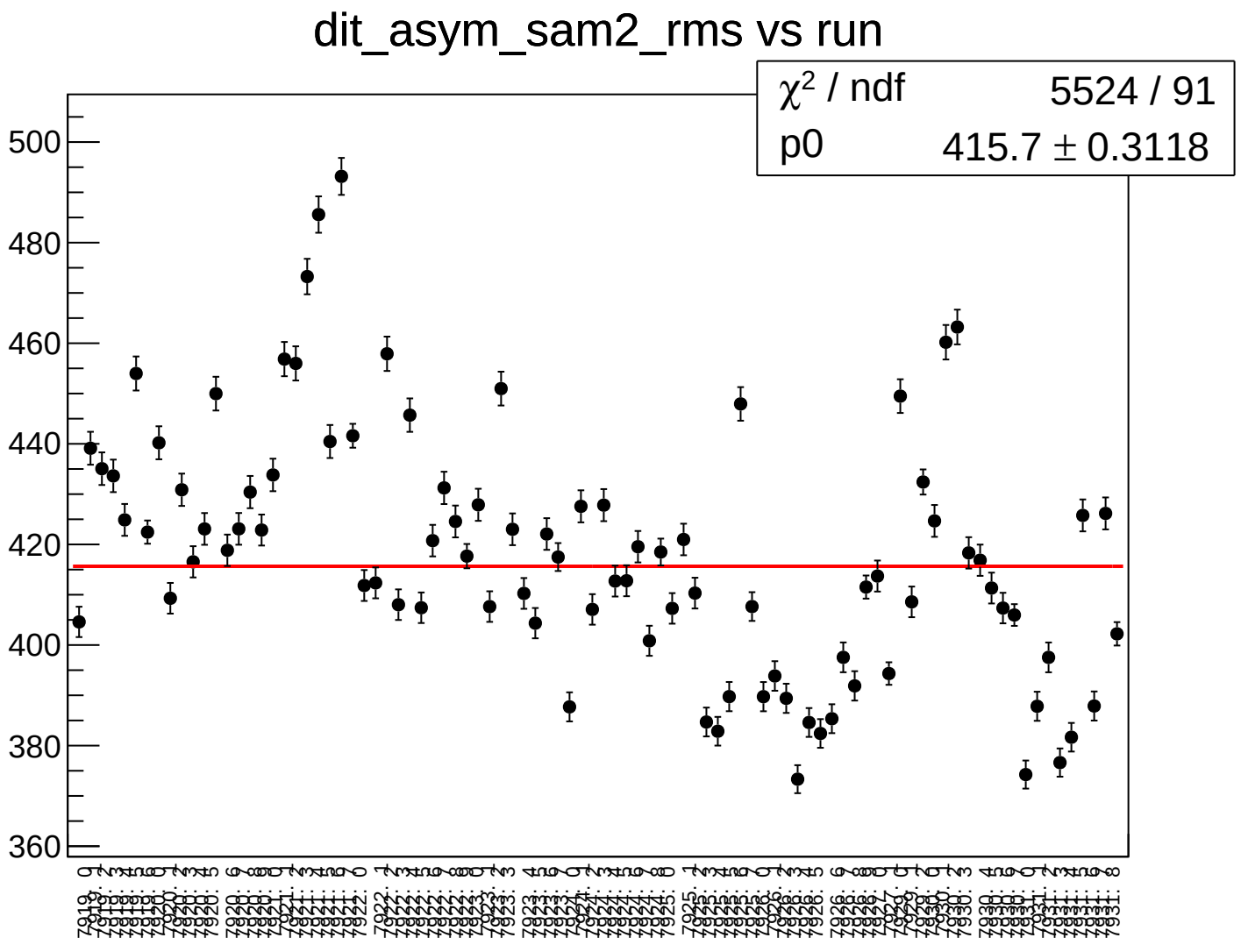

asym_sam2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 98.72 / 91
p0 −9797 ± 6084
200
100
0
−100
−200
pull
Entries 92
Mean 1482
Std Dev 0
3
2
1
0
−1
−2

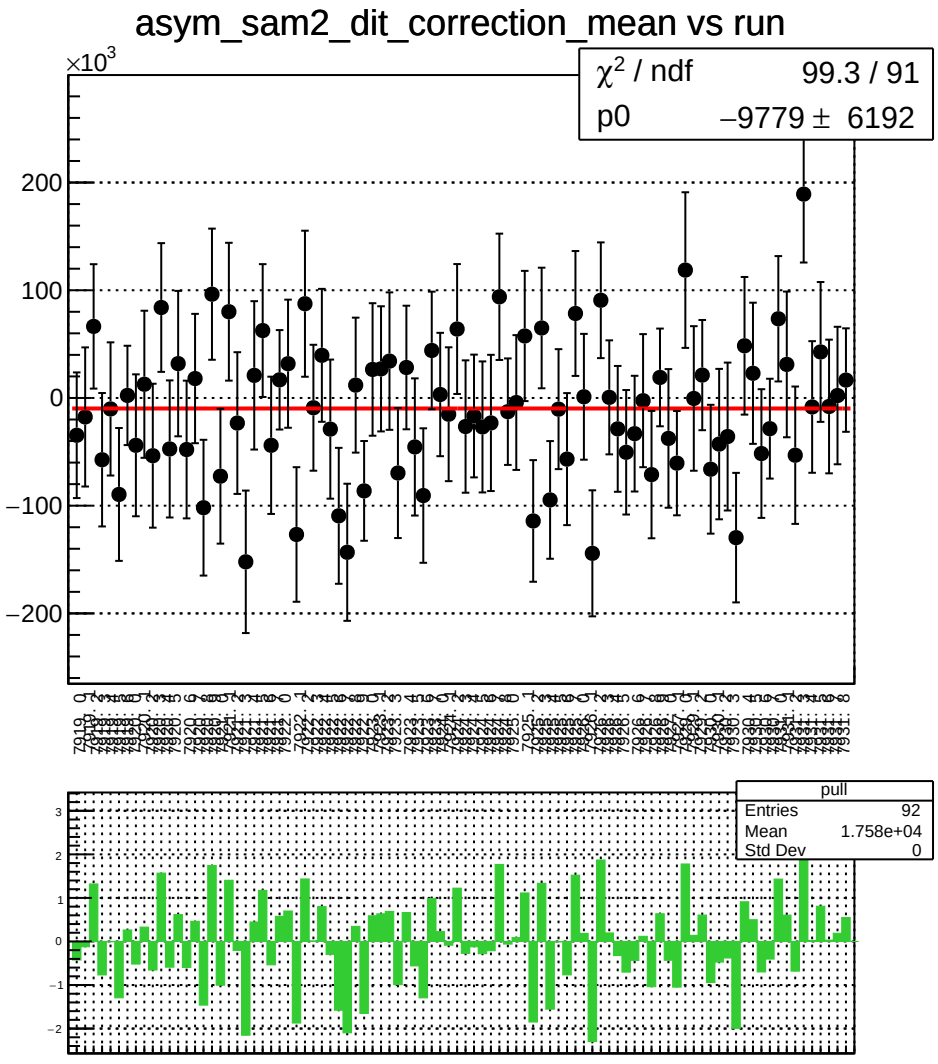

pull1D
Entries 92
Mean 0.001512
Std Dev 1.036
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

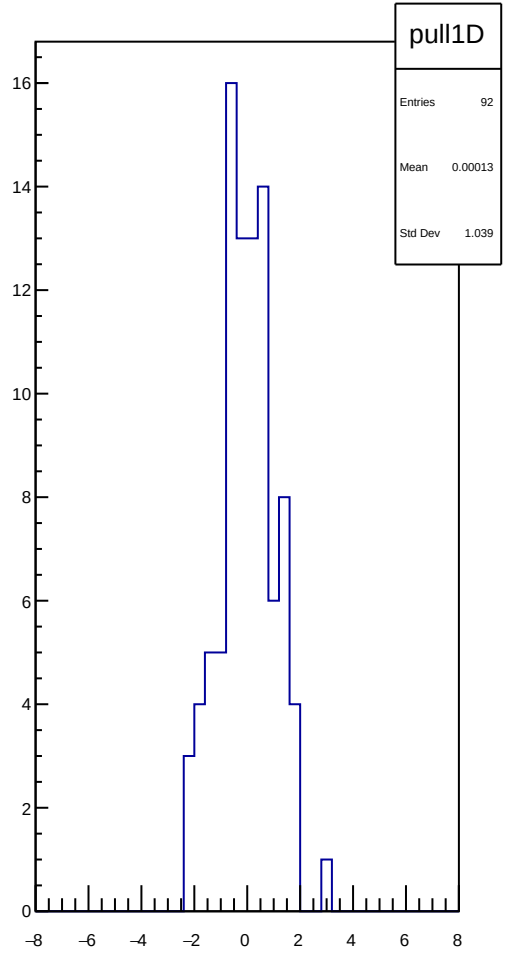

asym_sam2_eigen_cor_correction_rms vs run
χ^2 / ndf 6031 / 91
p0 5734 ± 4.302
6800
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800

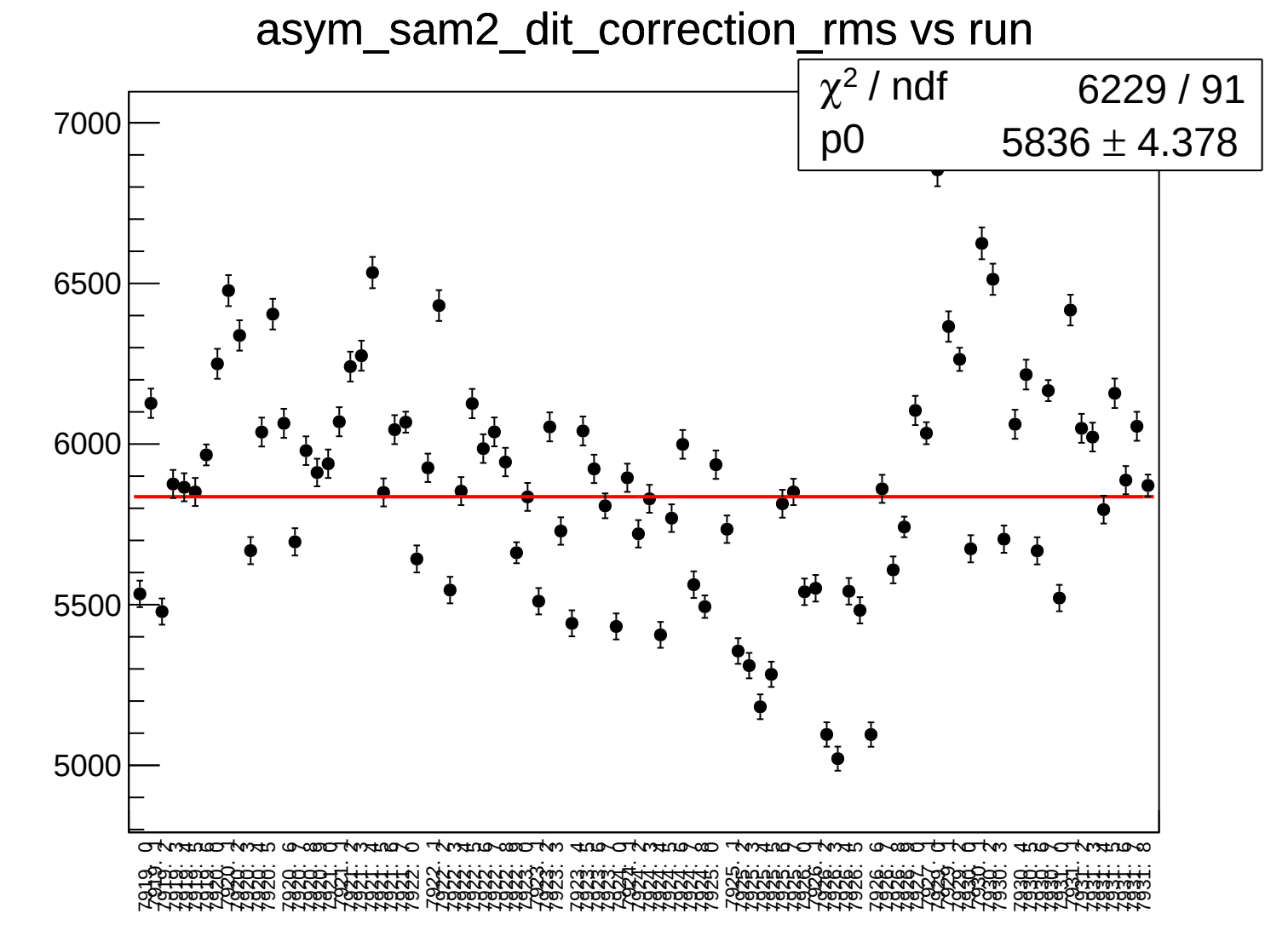

dit_asym_sam2_mean vs run
χ² / ndf 114.6 / 91
p0 −73.55 ± 440.9
pull
Entries 92
Mean −53.81
Std Dev 0

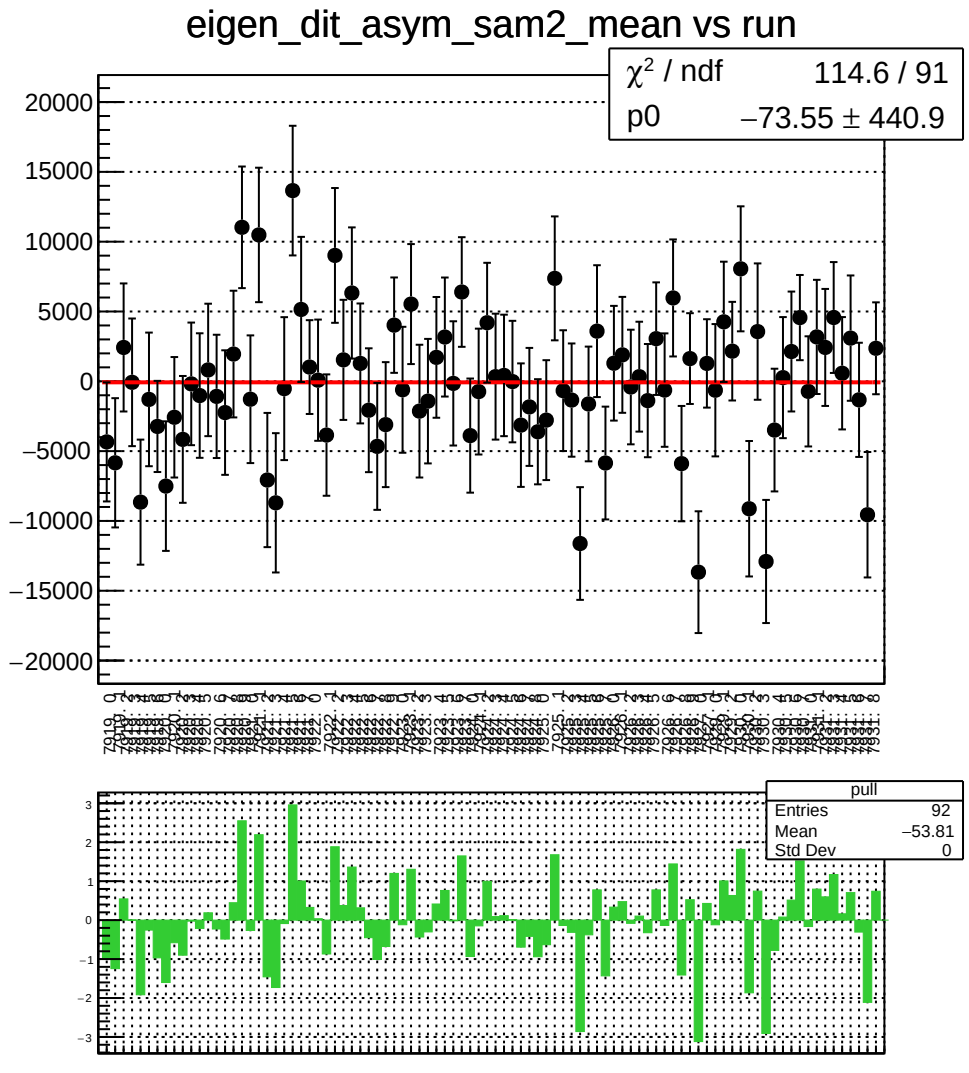

pull1D
Entries 92
Mean −0.01418
Std Dev 1.116

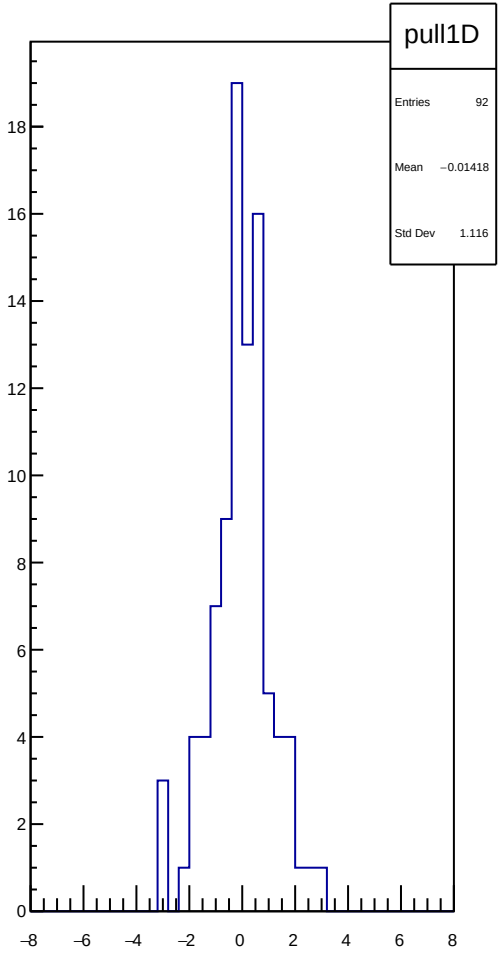

dit_asym_sam2_rms vs run
χ² / ndf 5524 / 91
p0 415.7 ± 0.3118
500
480
460
440
420
400
380
360

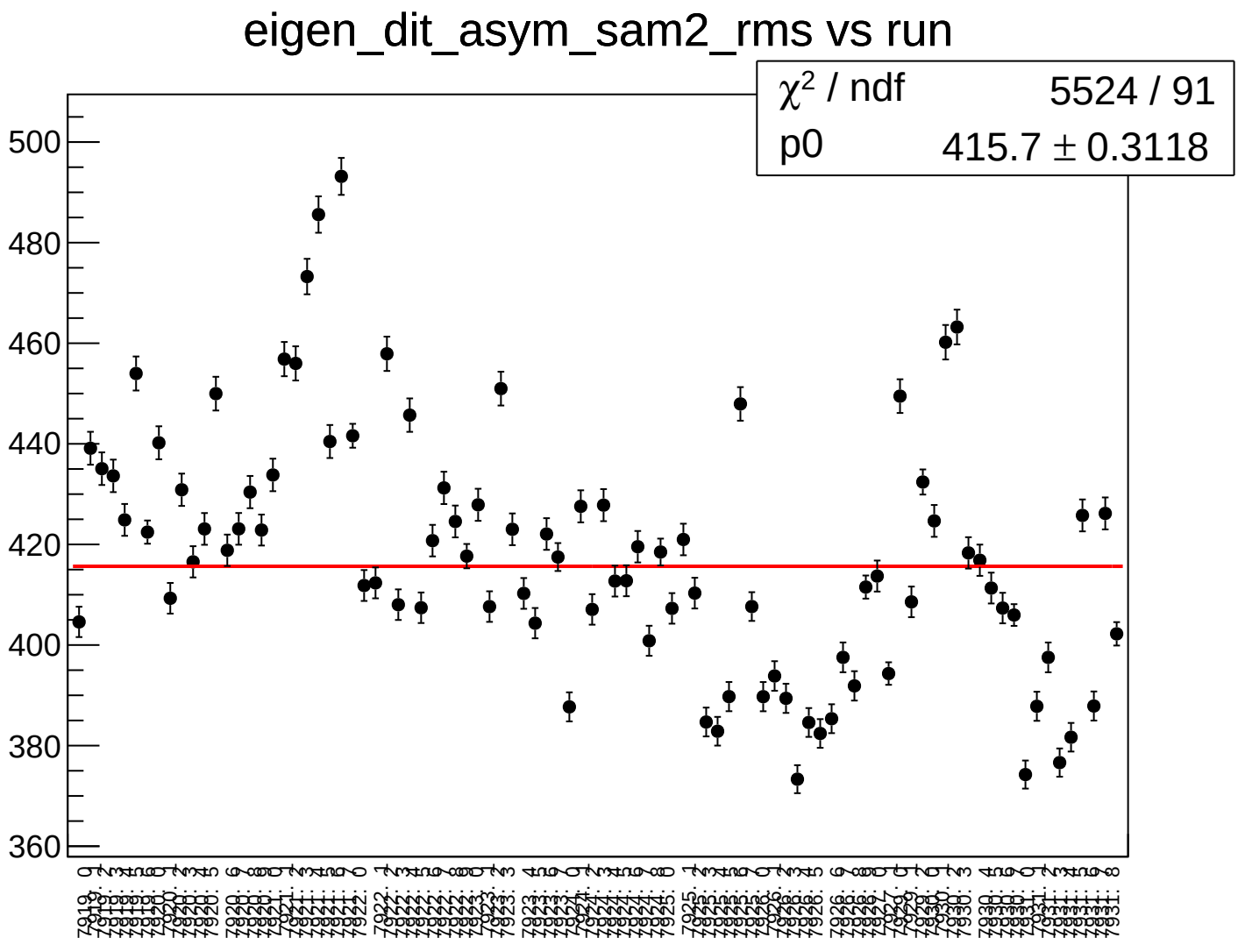

asym_sam2_dit_correction_mean vs run
×10^3
χ² / ndf 99.3 / 91
p0 −9779 ± 6192
200
100
0
−100
−200
pull
Entries 92
Mean 1.758e+04
Std Dev 0
3
2
1
0
−1
−2

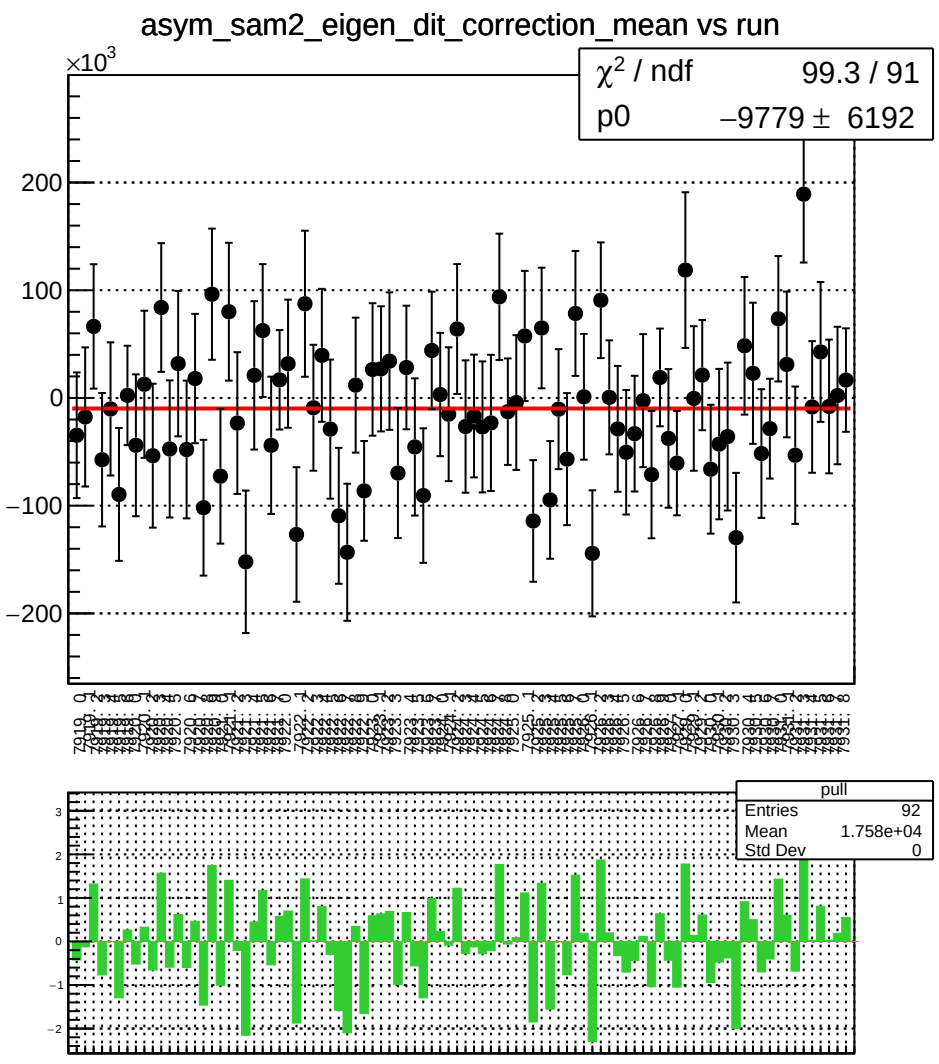

pull1D
Entries 92
Mean 0.00013
Std Dev 1.039
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

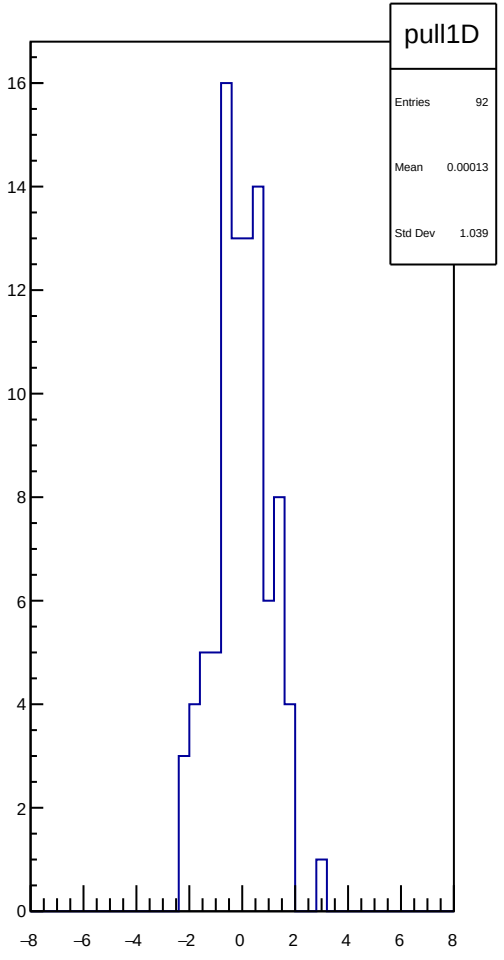

asym_sam2_dit_correction_rms vs run
χ^2 / ndf 6229 / 91
p0 5836 ± 4.378
7000
6500
6000
5500
5000

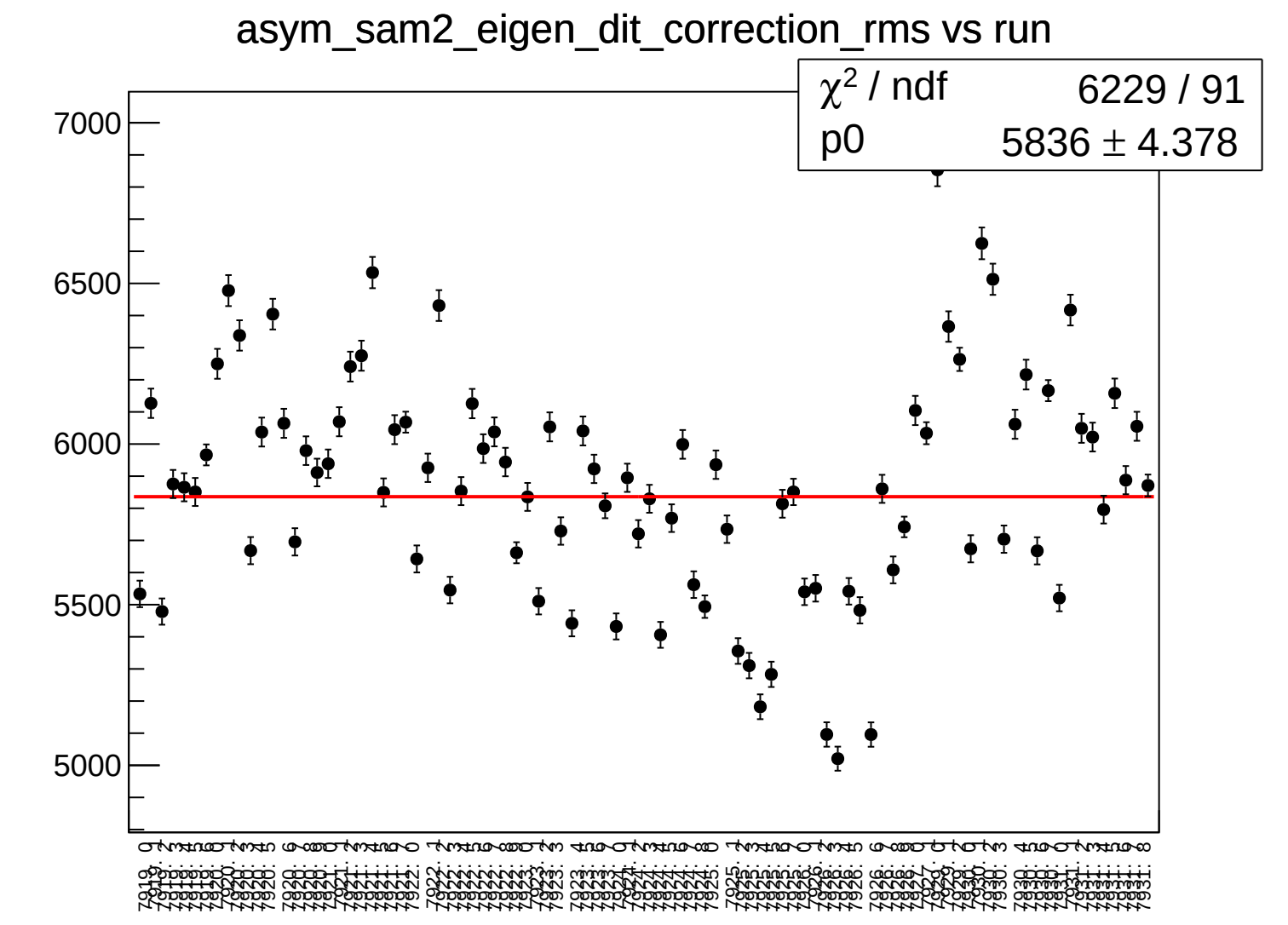

eigen_dit_asym_sam2_mean vs run
χ² / ndf 114.6 / 91
p0 −73.55 ± 440.9
pull
Entries 92
Mean −53.81
Std Dev 0

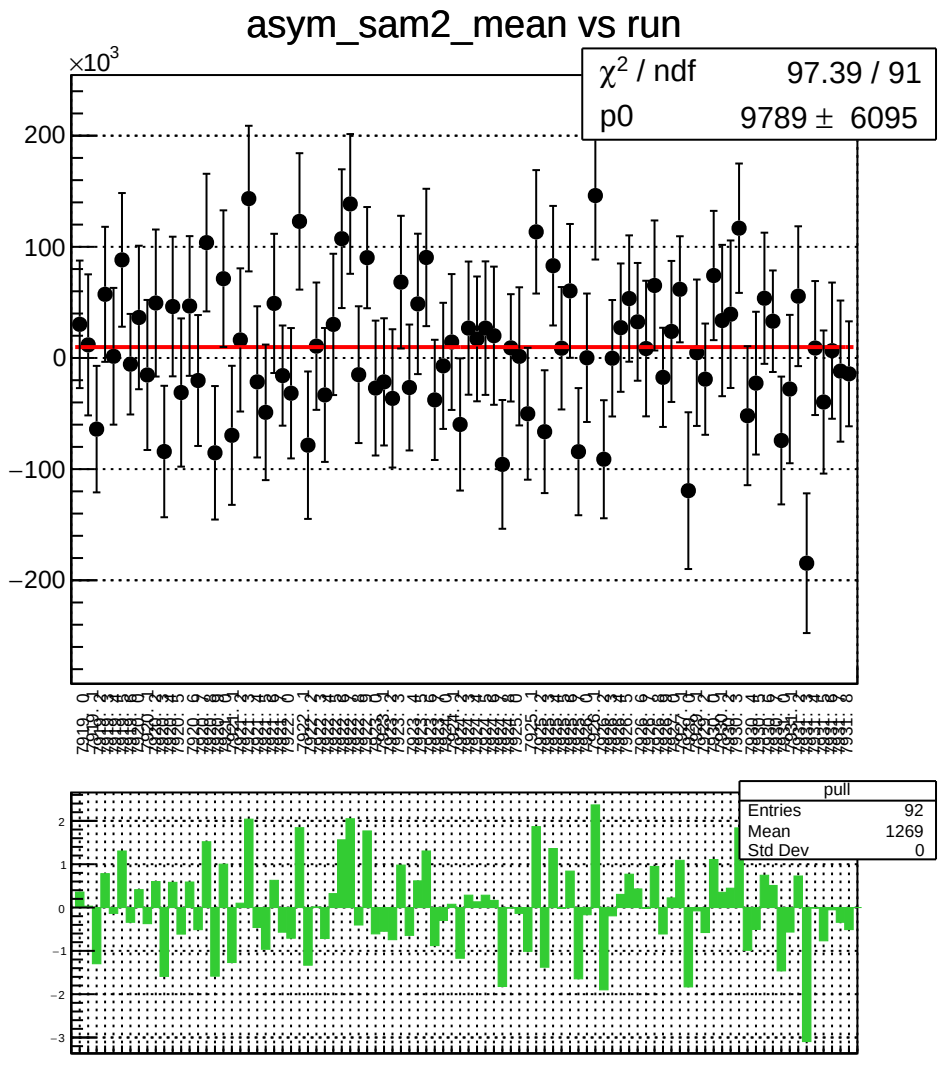

pull1D
Entries 92
Mean −0.01418
Std Dev 1.116

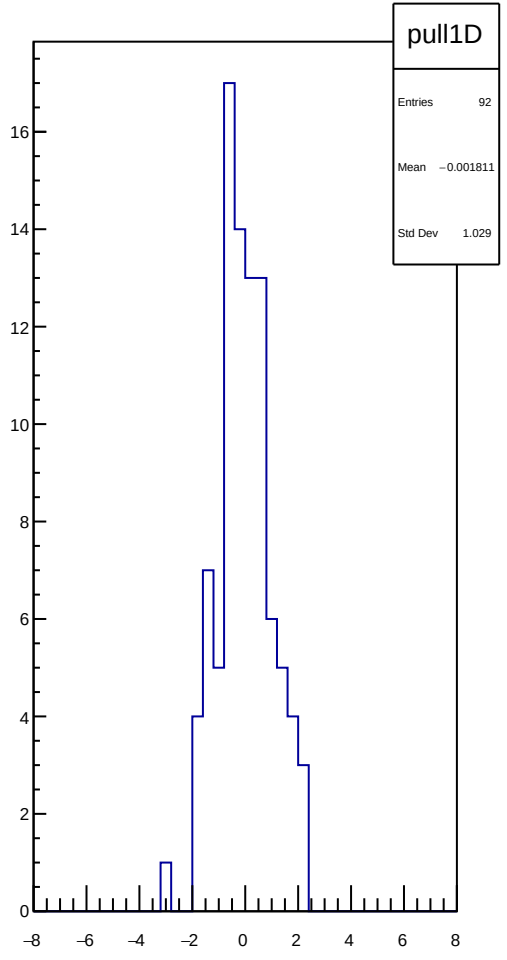

eigen_dit_asym_sam2_rms vs run
χ² / ndf 5524 / 91
p0 415.7 ± 0.3118
500
480
460
440
420
400
380
360

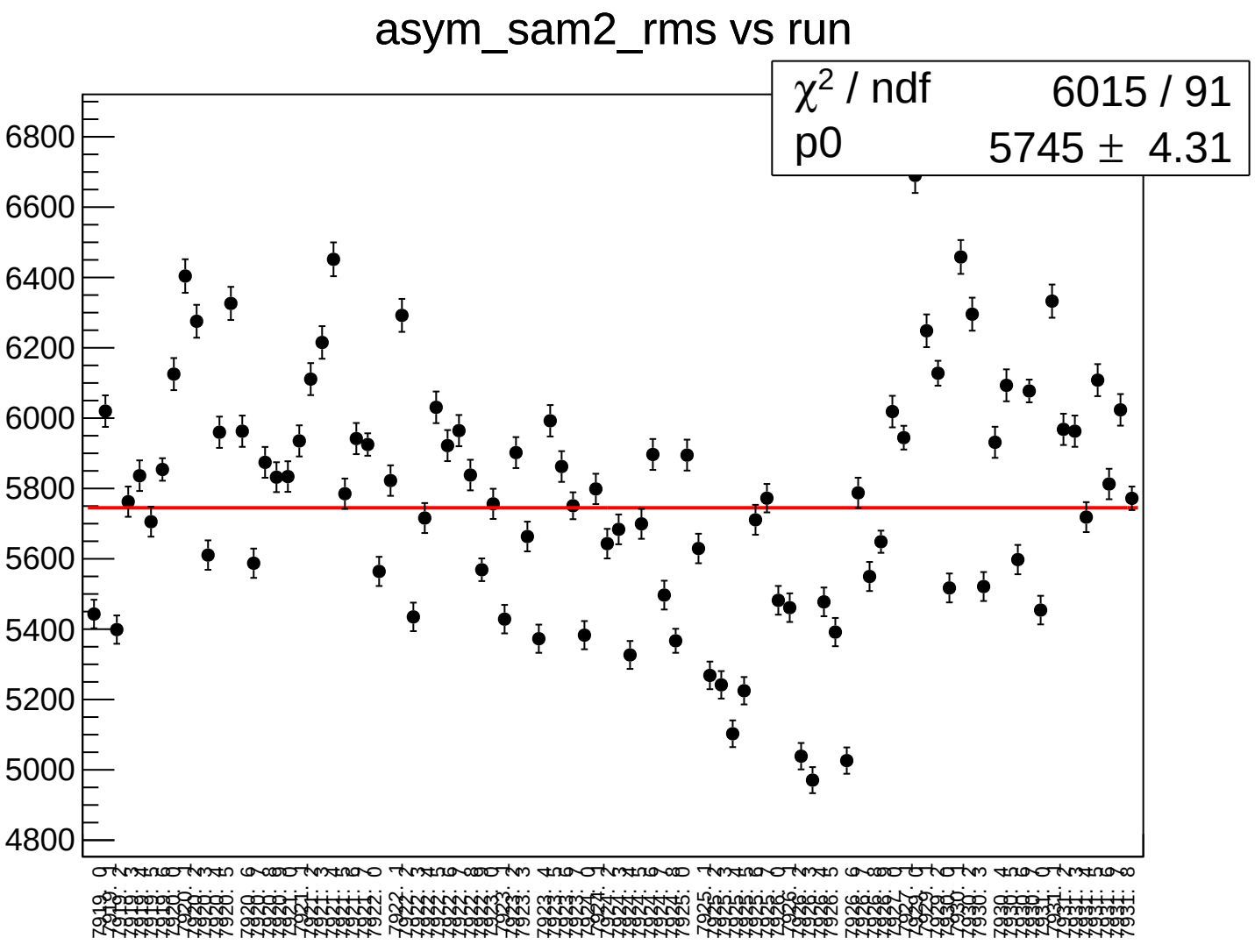

asym_sam2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 99.3 / 91
p0 −9779 ± 6192
200
100
0
−100
−200
pull
Entries 92
Mean 1.758e+04
Std Dev 0
3
2
1
0
−1
−2

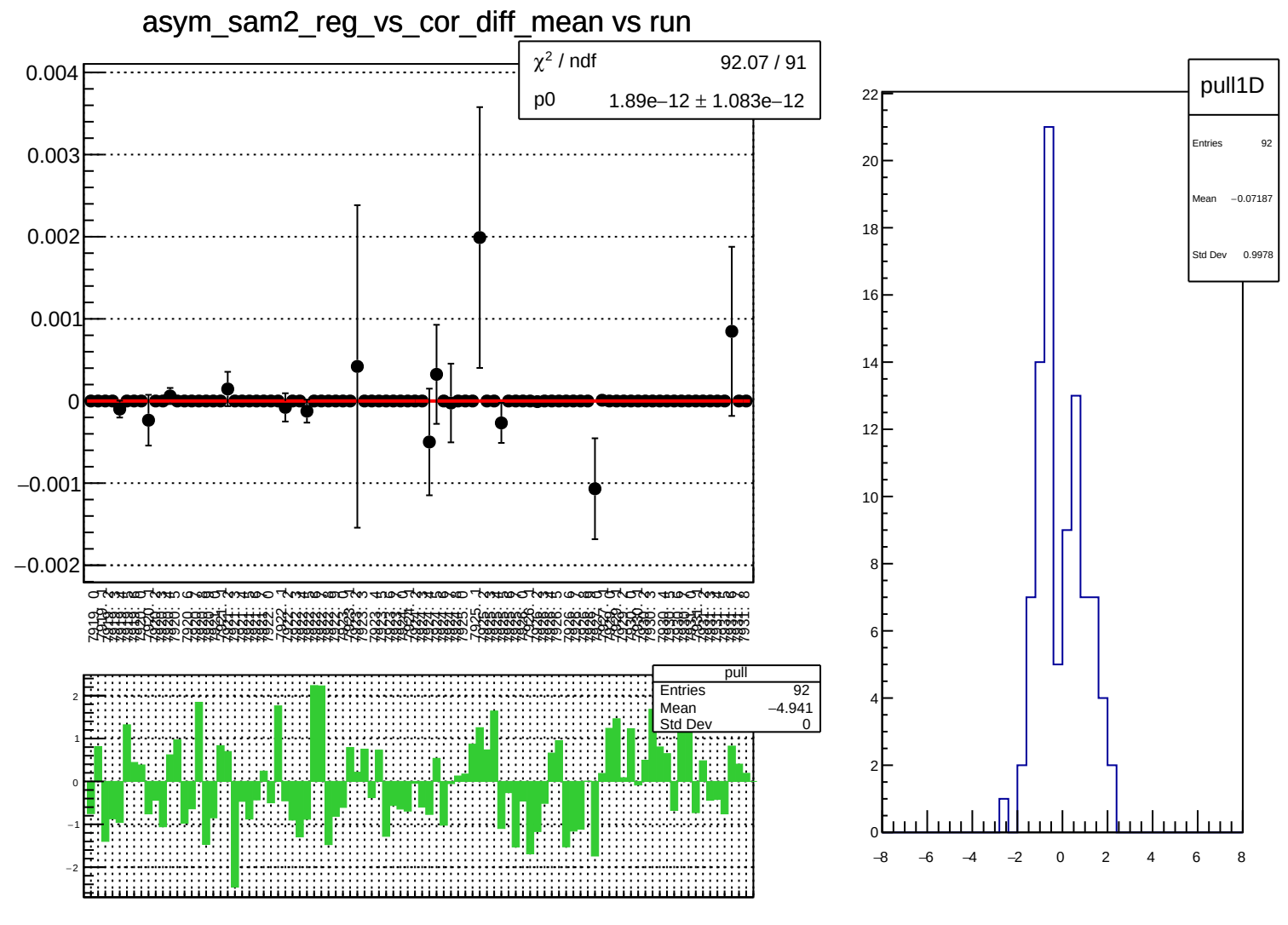

pull1D
Entries 92
Mean 0.00013
Std Dev 1.039
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

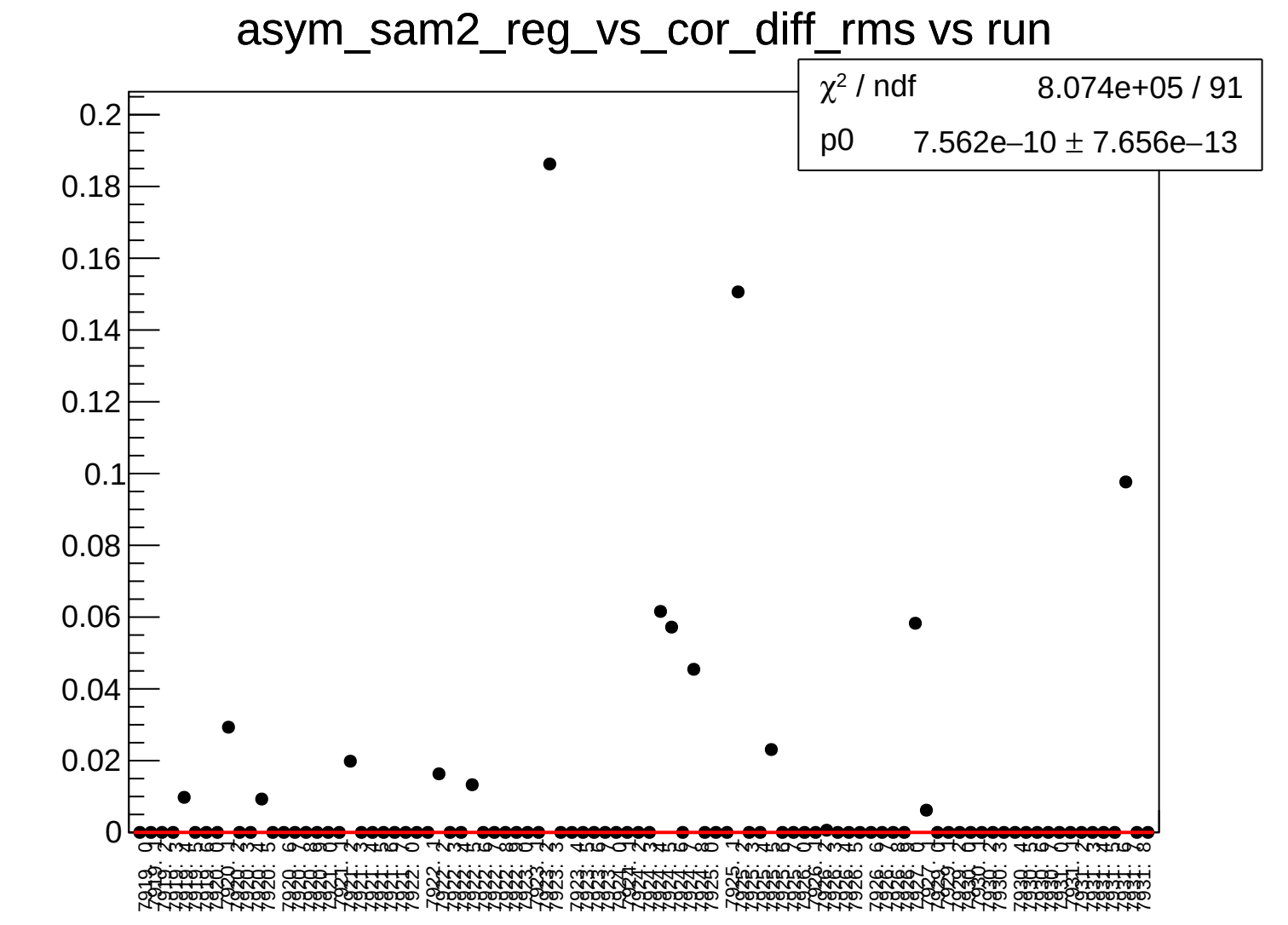

asym_sam2_eigen_dit_correction_rms vs run
χ² / ndf 6229 / 91
p0 5836 ± 4.378
7000
6500
6000
5500
5000

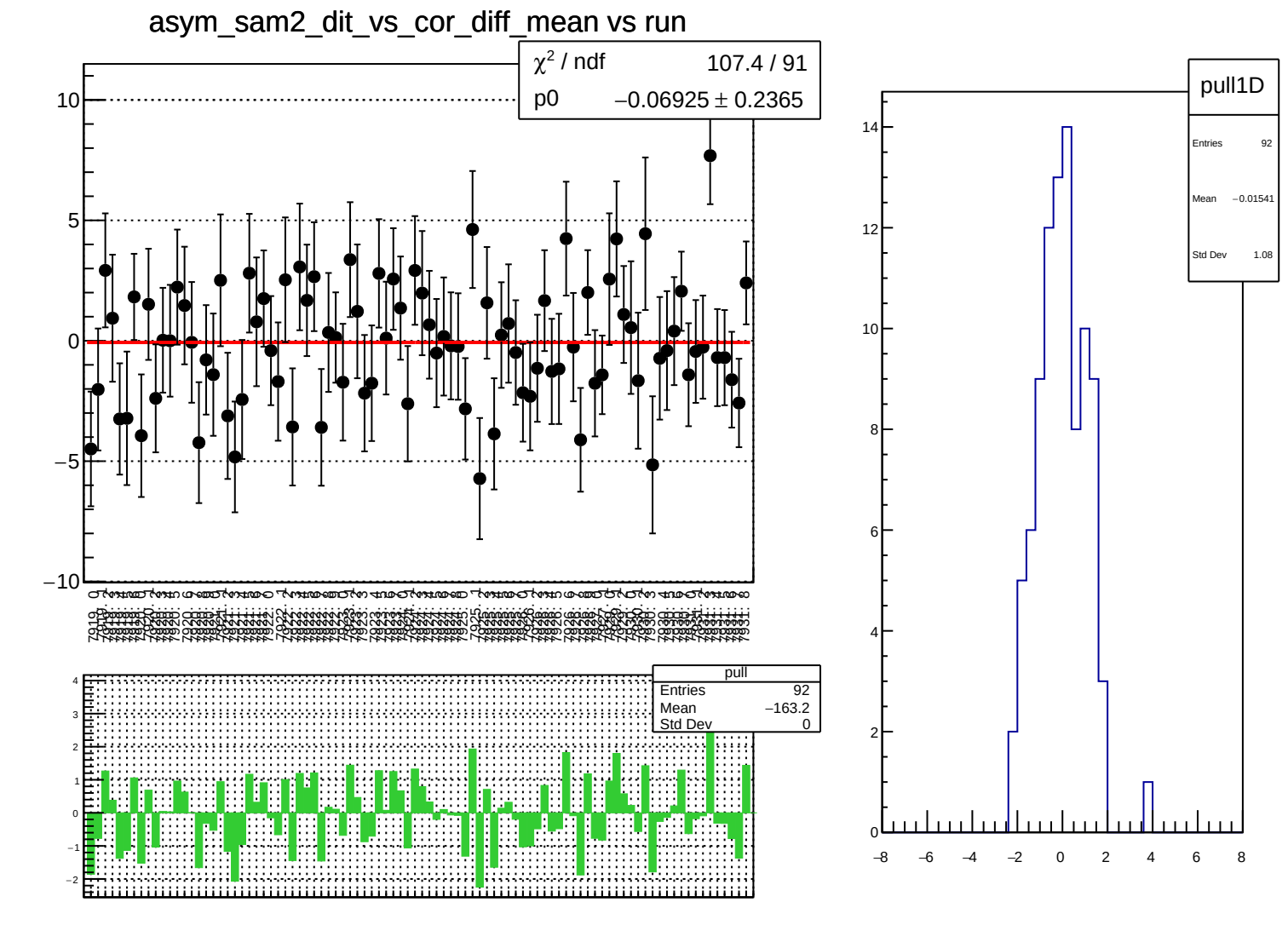

asym_sam2_mean vs run
×10^3
χ² / ndf 97.39 / 91
p0 9789 ± 6095
200
100
0
−100
−200
pull
Entries 92
Mean 1269
Std Dev 0
2
1
0
−1
−2
−3

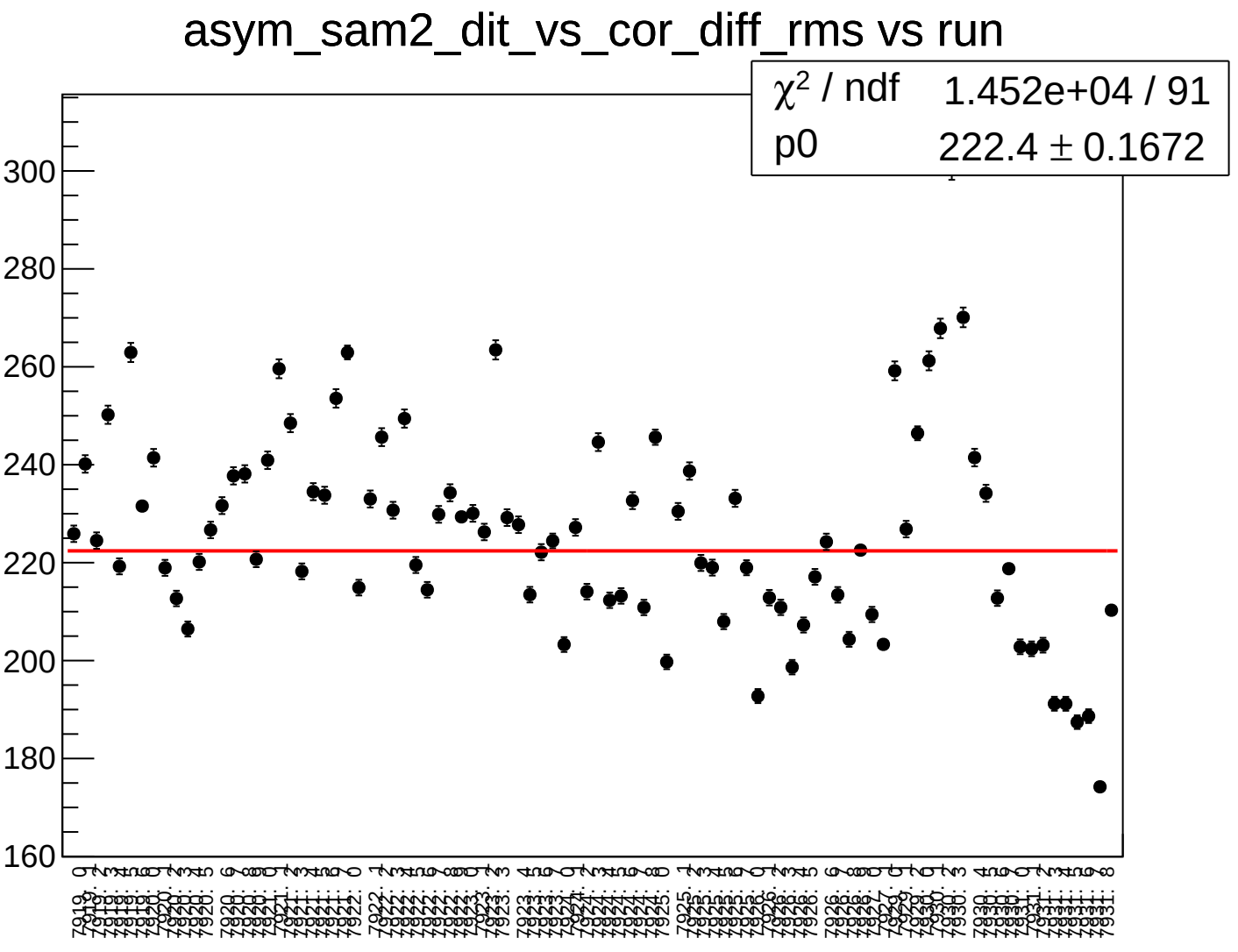

pull1D
Entries 92
Mean −0.001811
Std Dev 1.029
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

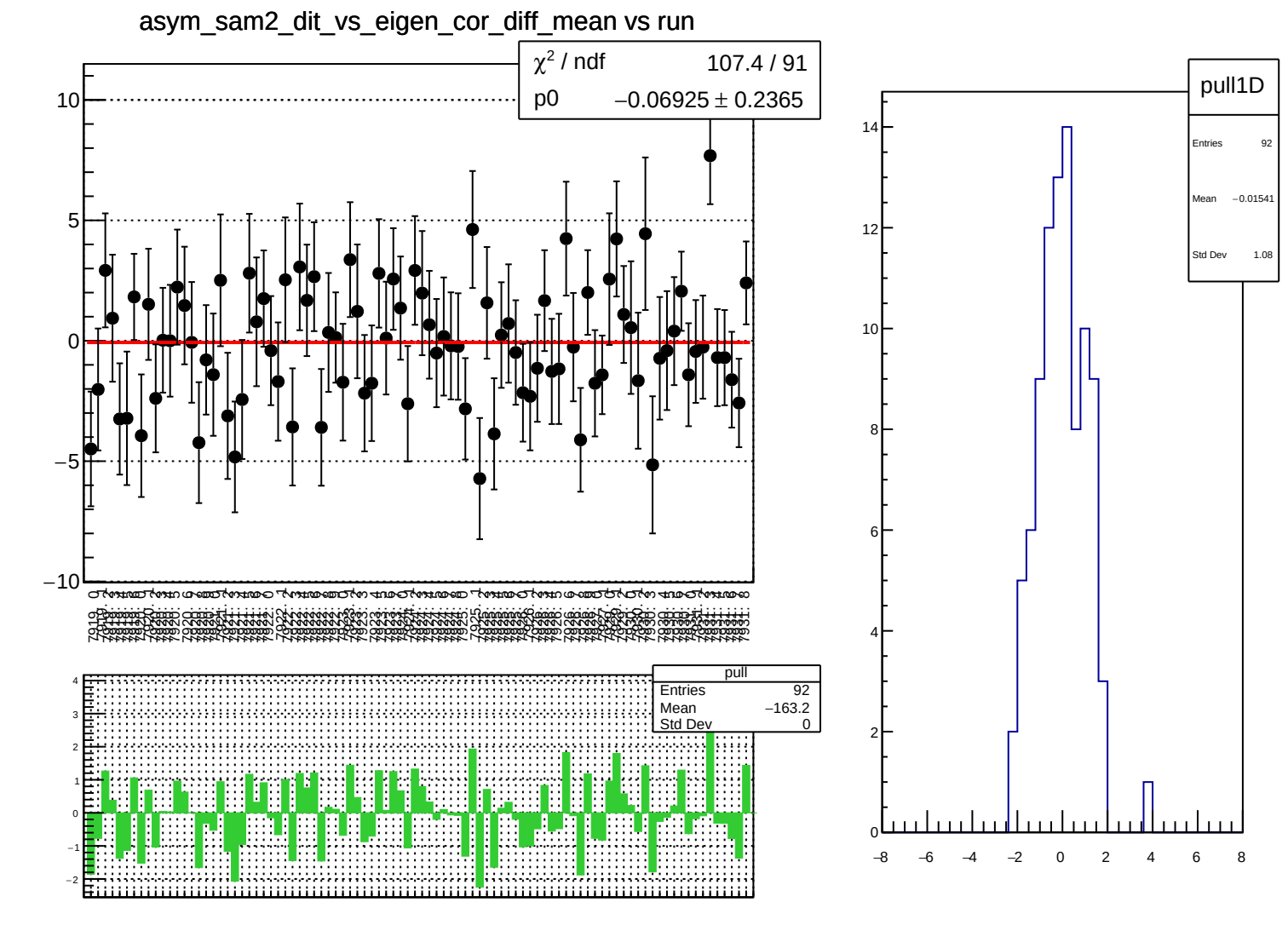

asym_sam2_rms vs run
χ² / ndf 6015 / 91
p0 5745 ± 4.31
6800
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800

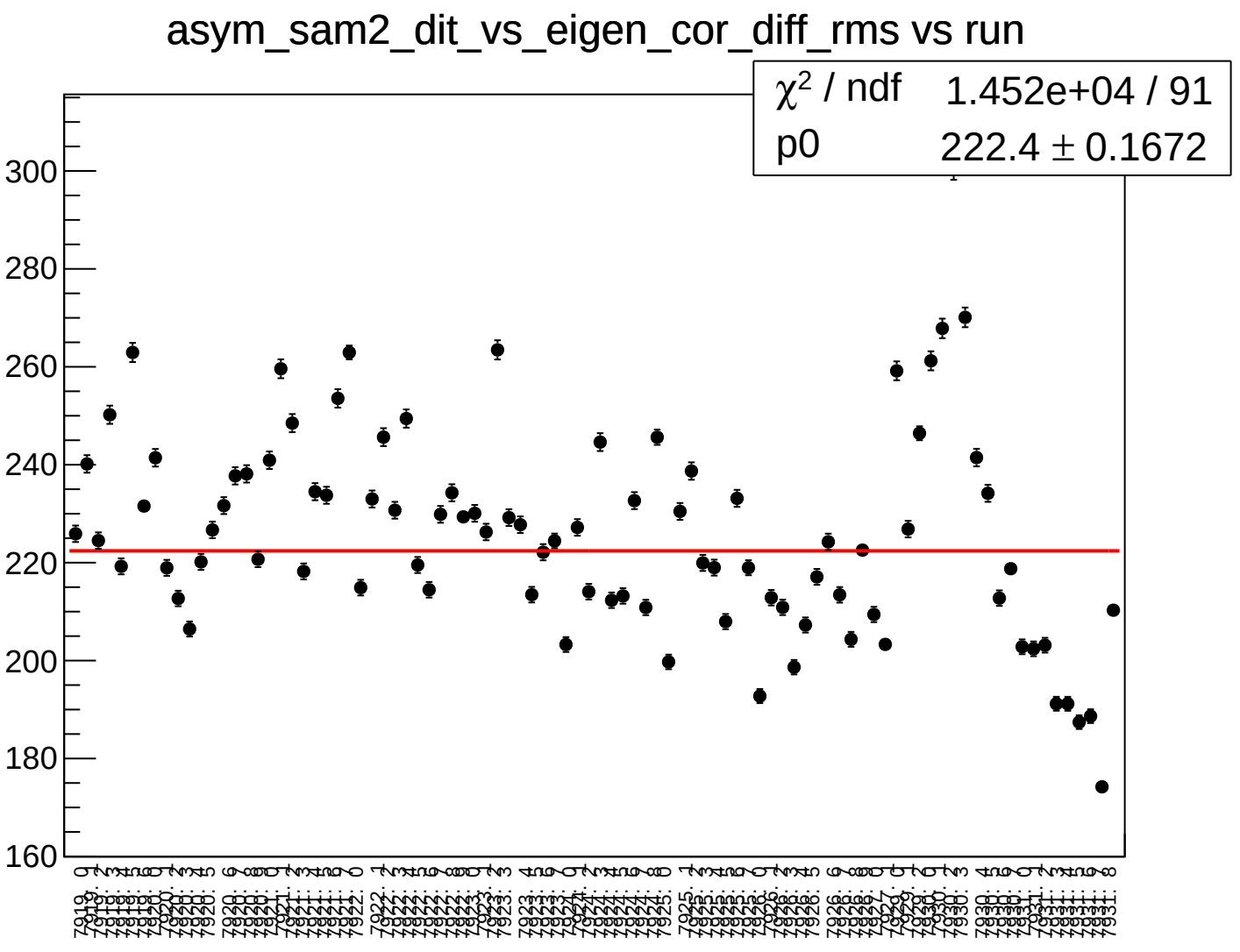

asym_sam2_reg_vs_cor_diff_mean vs run
χ² / ndf 92.07 / 91
p0 1.89e−12 ± 1.083e−12
pull
Entries 92
Mean −4.941
Std Dev 0
pull1D
Entries 92
Mean −0.07187
Std Dev 0.9978

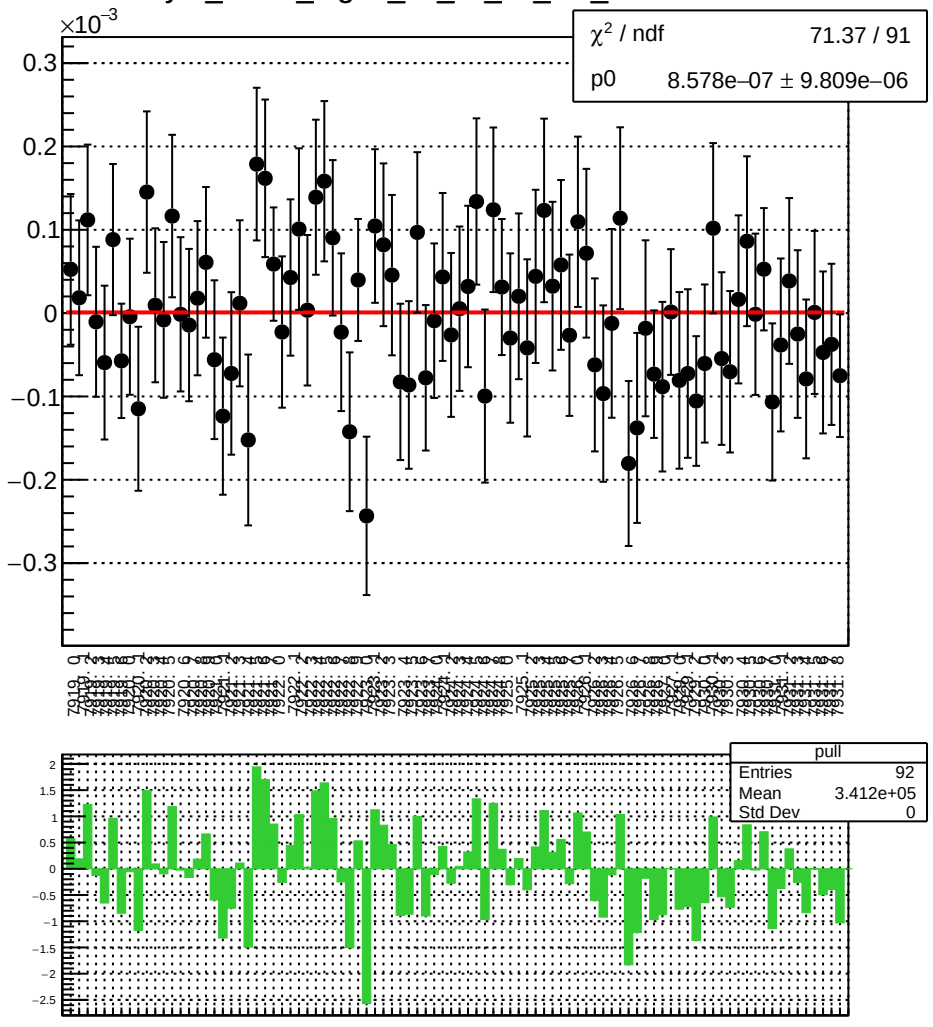

asym_sam2_reg_vs_cor_diff_rms vs run
χ² / ndf 8.074e+05 / 91
p0 7.562e−10 ± 7.656e−13
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

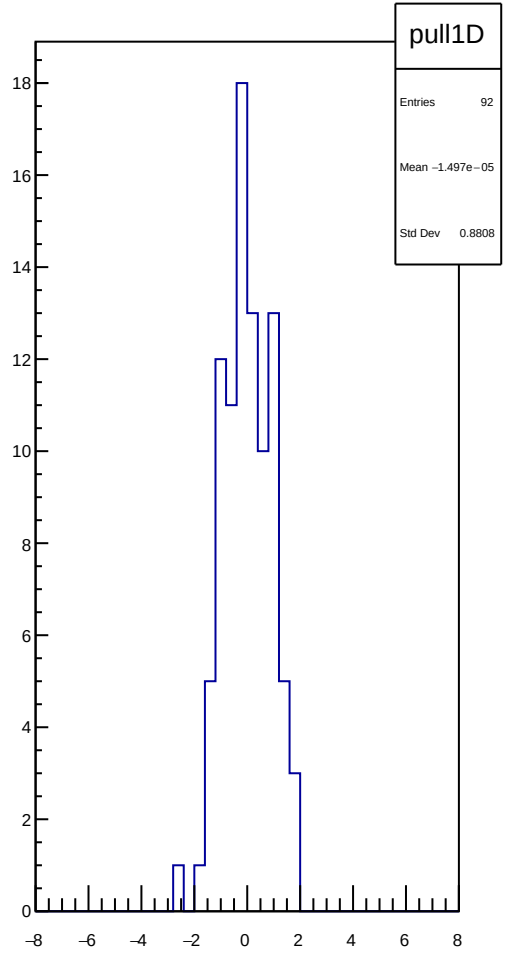

asym_sam2_dit_vs_cor_diff_mean vs run
χ² / ndf 107.4 / 91
p0 −0.06925 ± 0.2365
pull
Entries 92
Mean −163.2
Std Dev 0
pull1D
Entries 92
Mean −0.01541
Std Dev 1.08

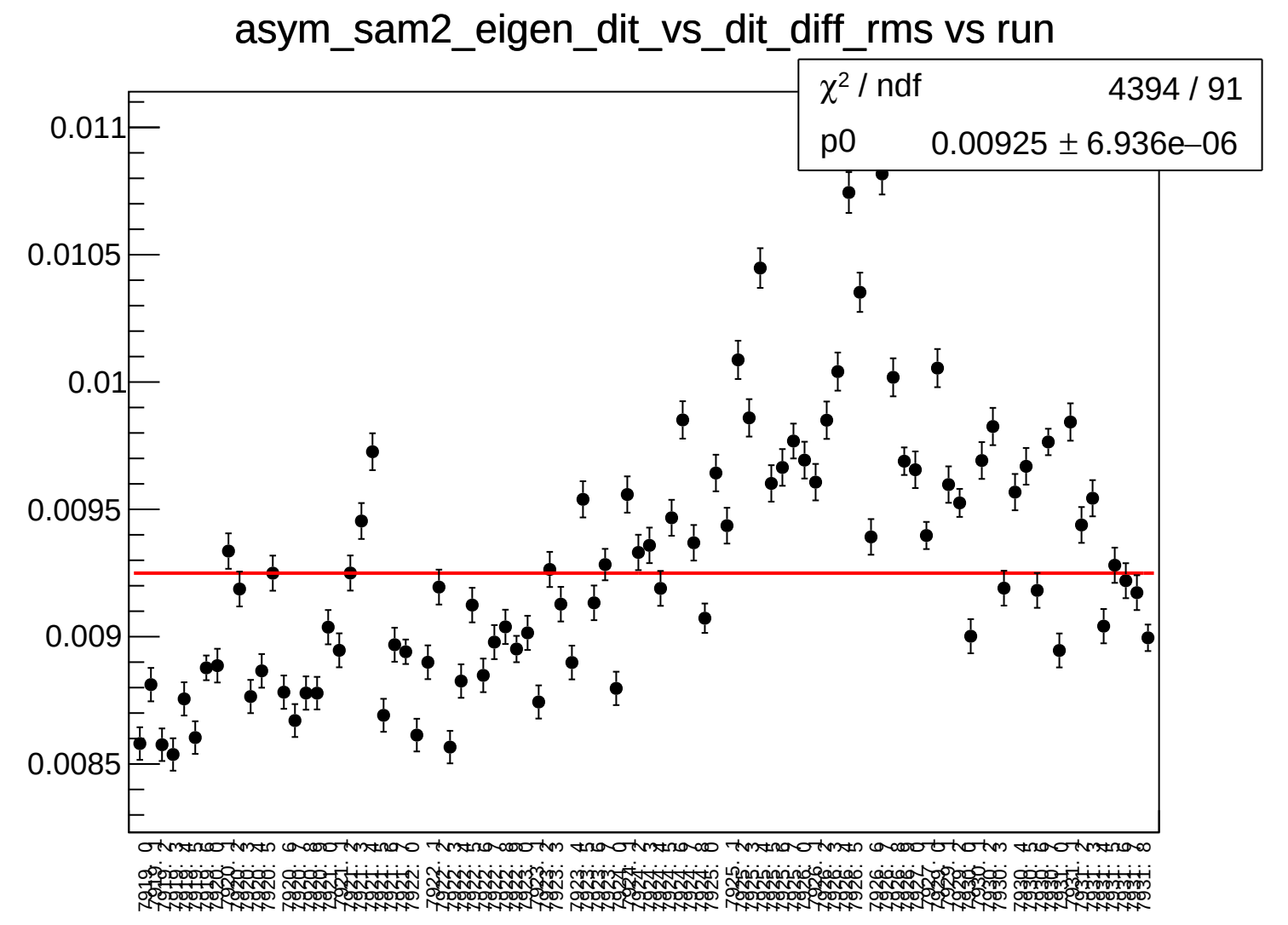

asym_sam2_dit_vs_cor_diff_rms vs run
χ² / ndf 1.452e+04 / 91
p0 222.4 ± 0.1672
300
280
260
240
220
200
180
160

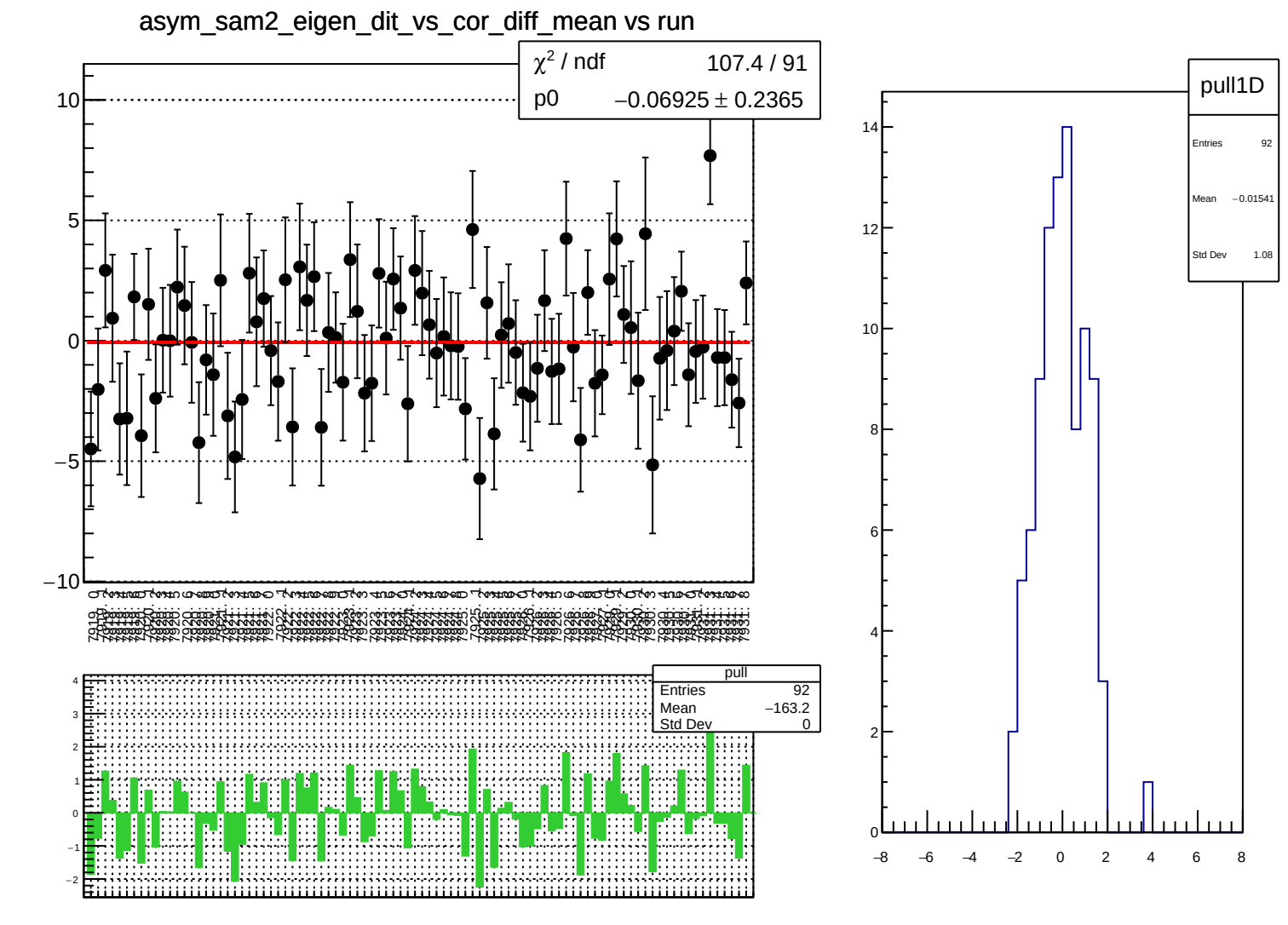

asym_sam2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.4 / 91
p0 −0.06925 ± 0.2365
pull
Entries 92
Mean −163.2
Std Dev 0
pull1D
Entries 92
Mean −0.01541
Std Dev 1.08

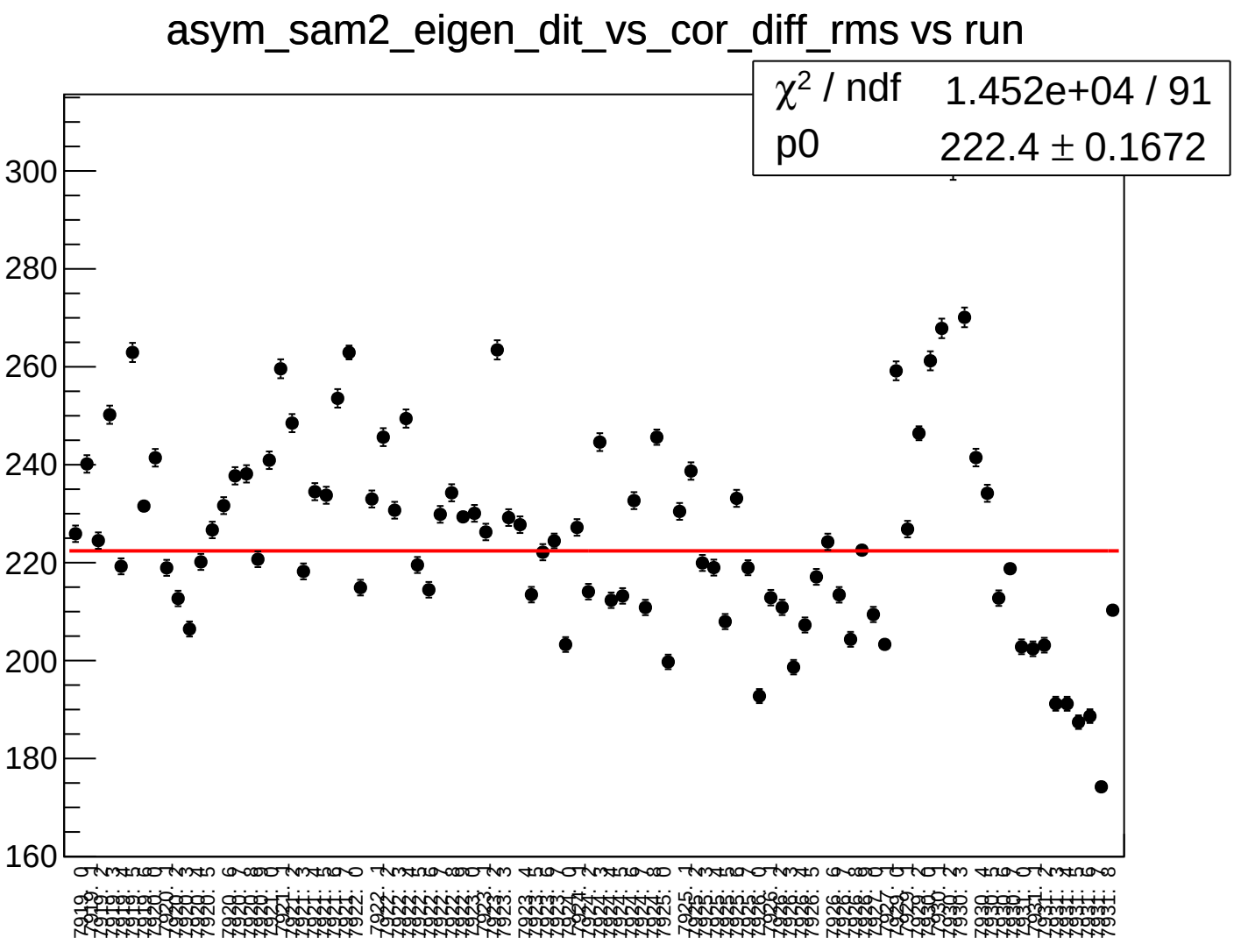

asym_sam2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.452e+04 / 91
p0 222.4 ± 0.1672
300
280
260
240
220
200
180
160

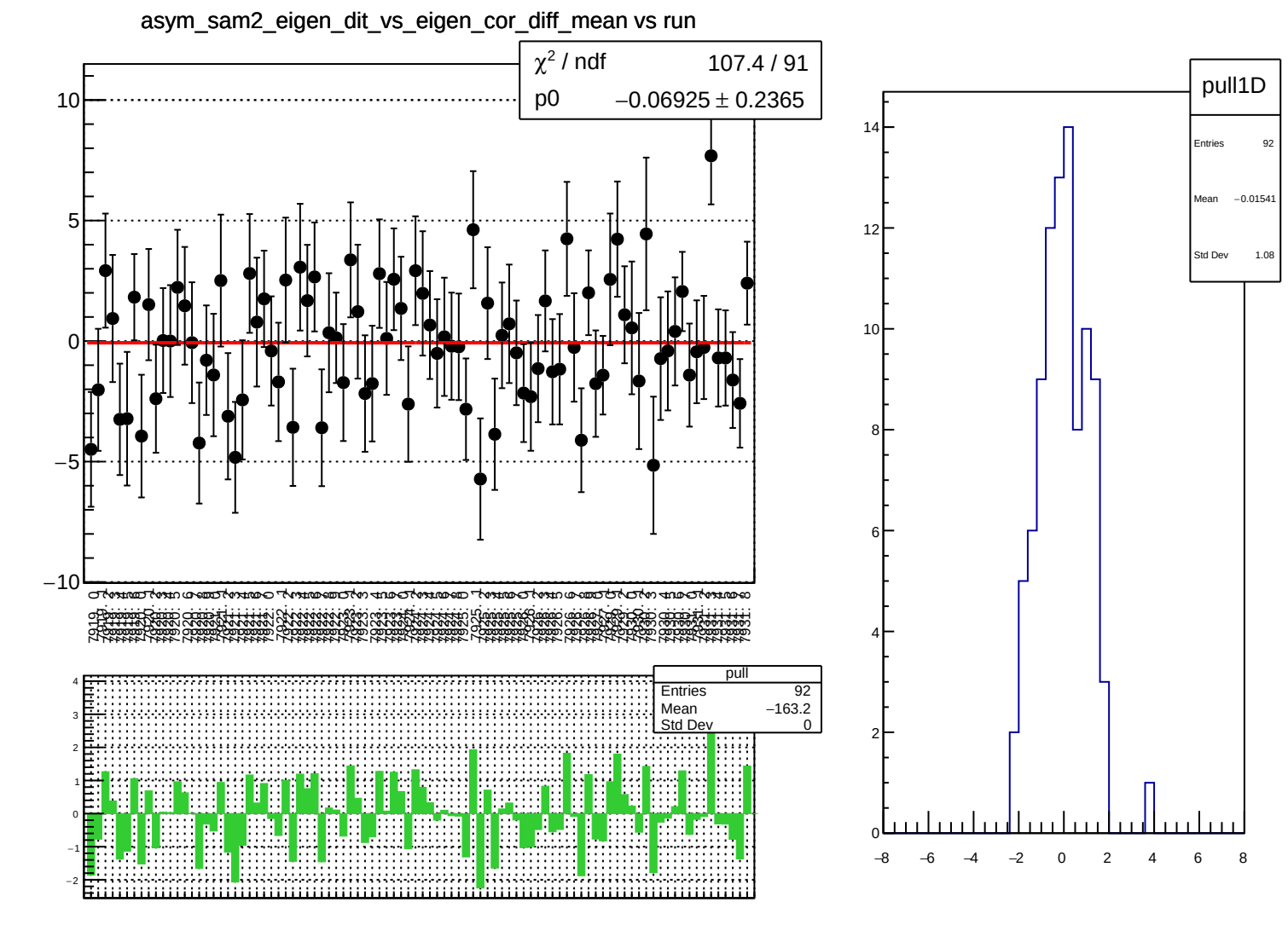

asym_sam2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 71.37 / 91
p0 8.578e−07 ± 9.809e−06
pull
Entries 92
Mean 3.412e+05
Std Dev 0

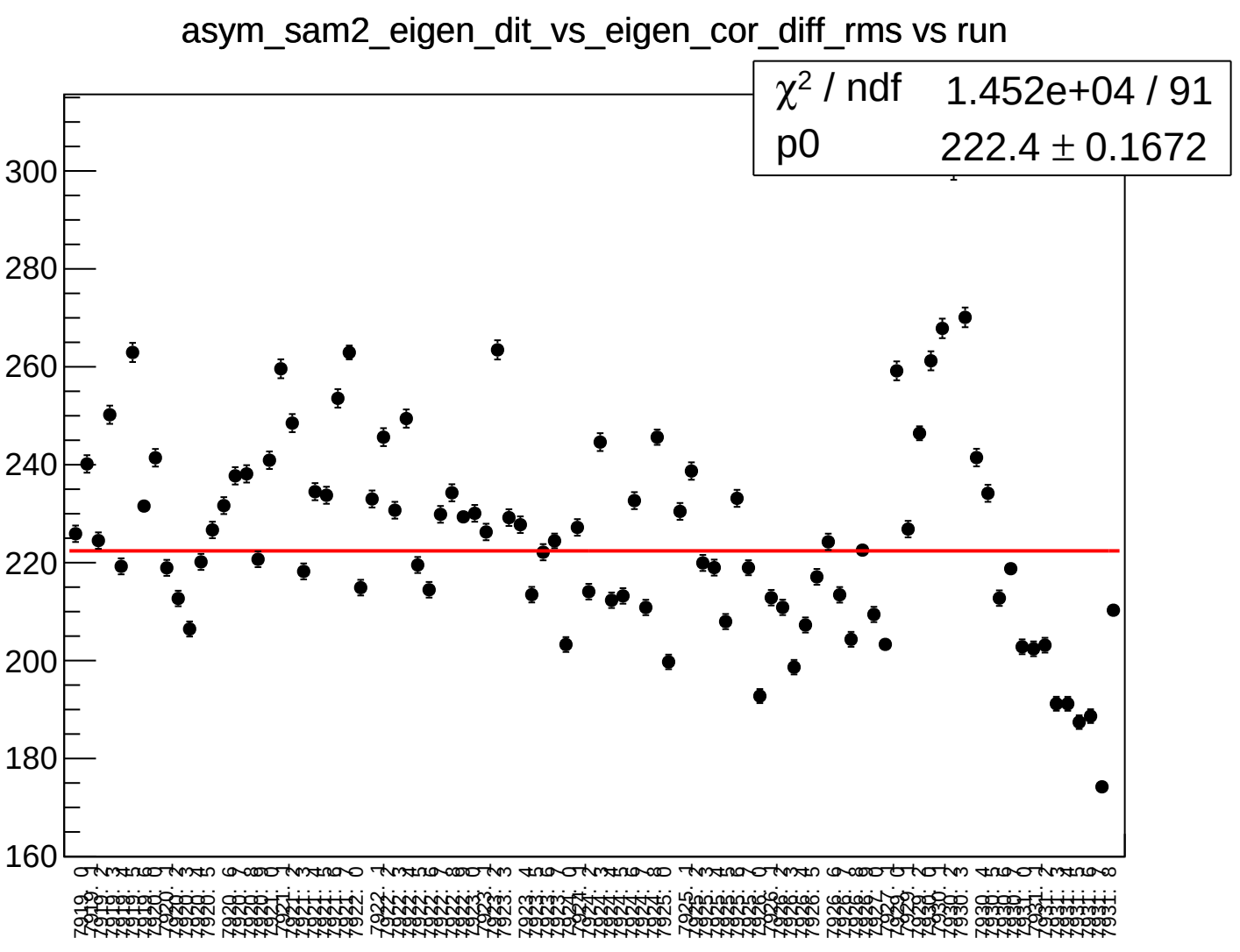

pull1D
Entries 92
Mean −1.497e−05
Std Dev 0.8808

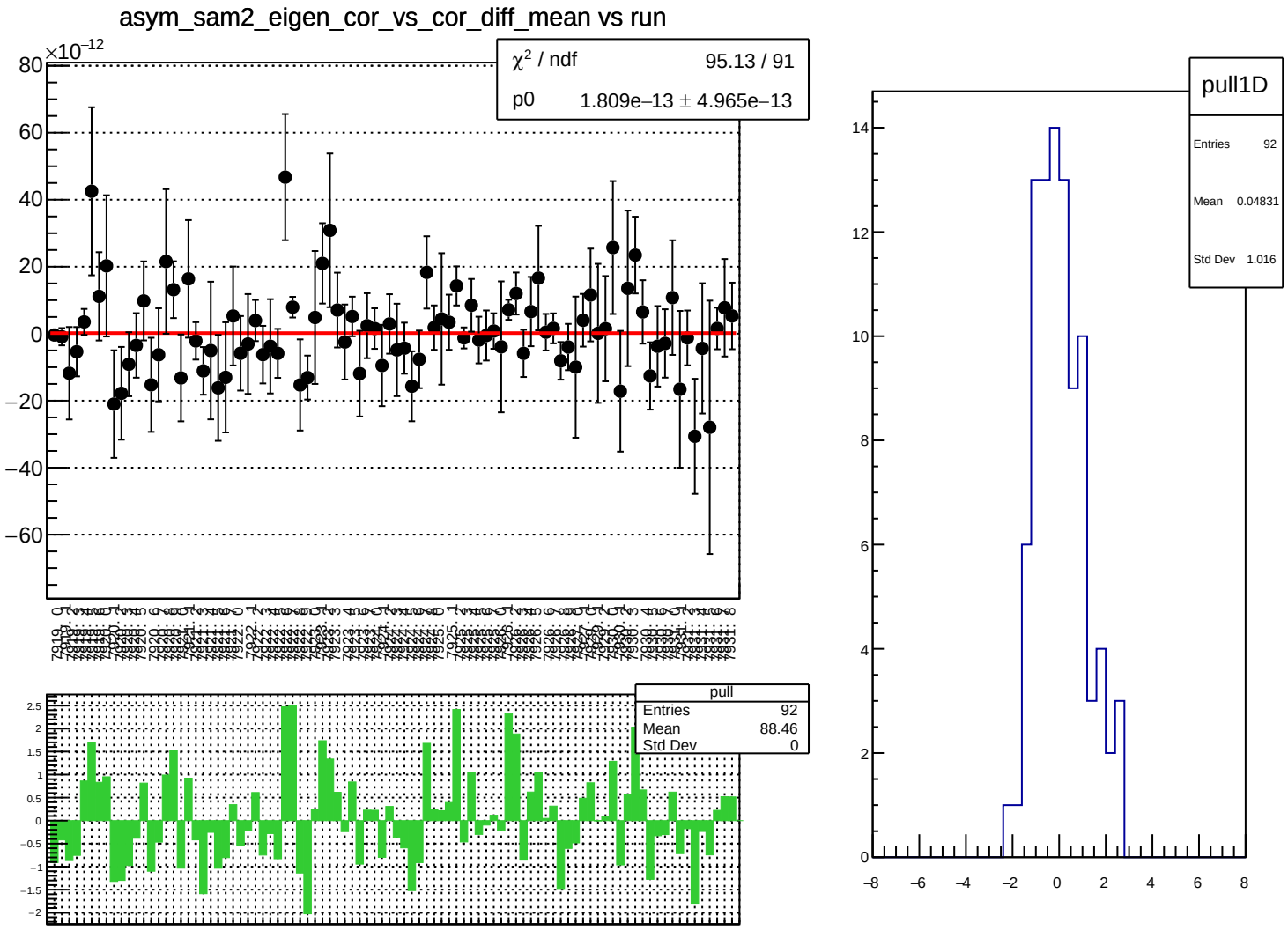

asym_sam2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4394 / 91
p0 0.00925 ± 6.936e−06
0.011
0.0105
0.01
0.0095
0.009
0.0085

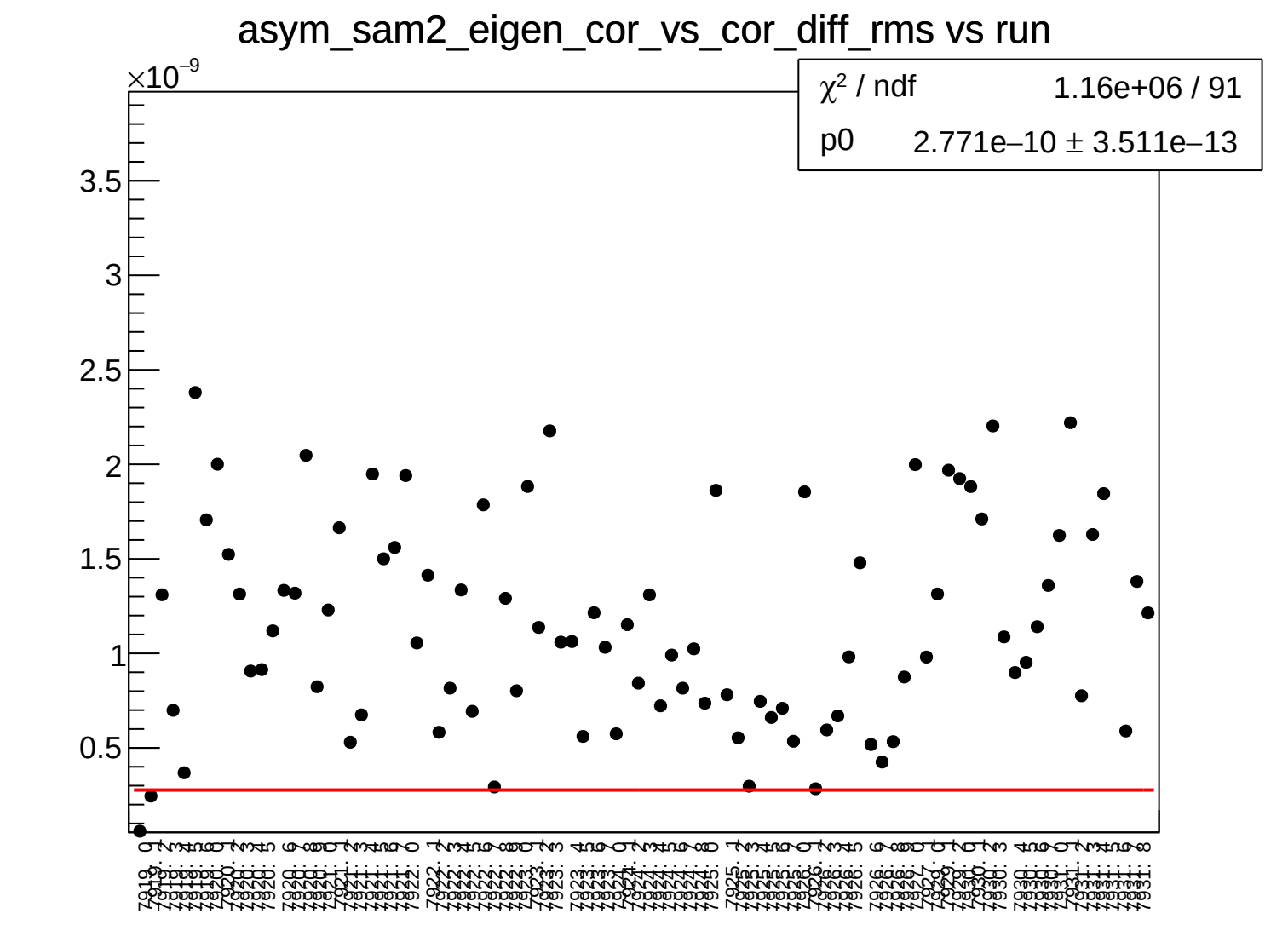

asym_sam2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 107.4 / 91
p0 −0.06925 ± 0.2365
pull
Entries 92
Mean −163.2
Std Dev 0
pull1D
Entries 92
Mean −0.01541
Std Dev 1.08

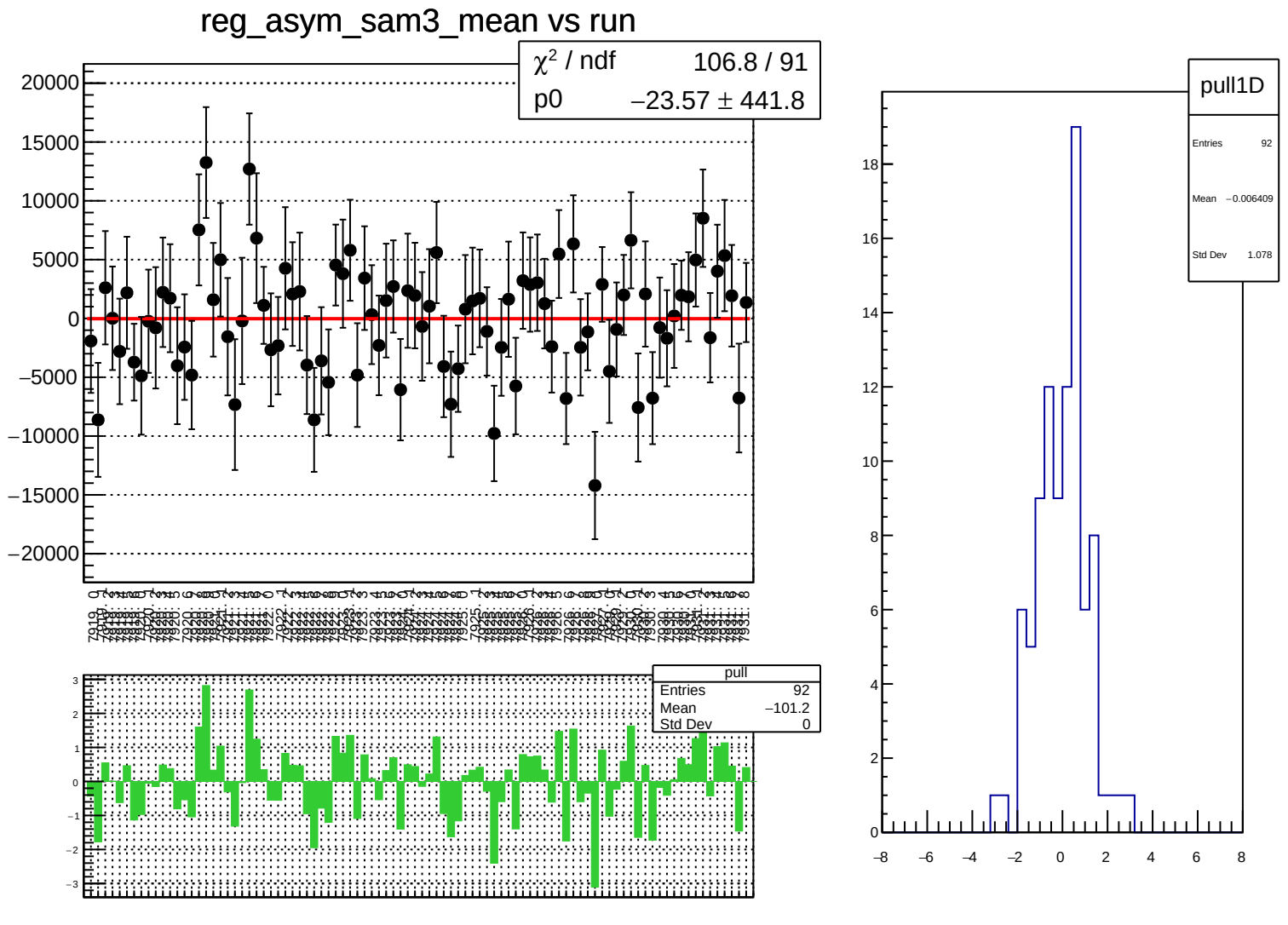

asym_sam2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.452e+04 / 91
p0 222.4 ± 0.1672
300
280
260
240
220
200
180
160

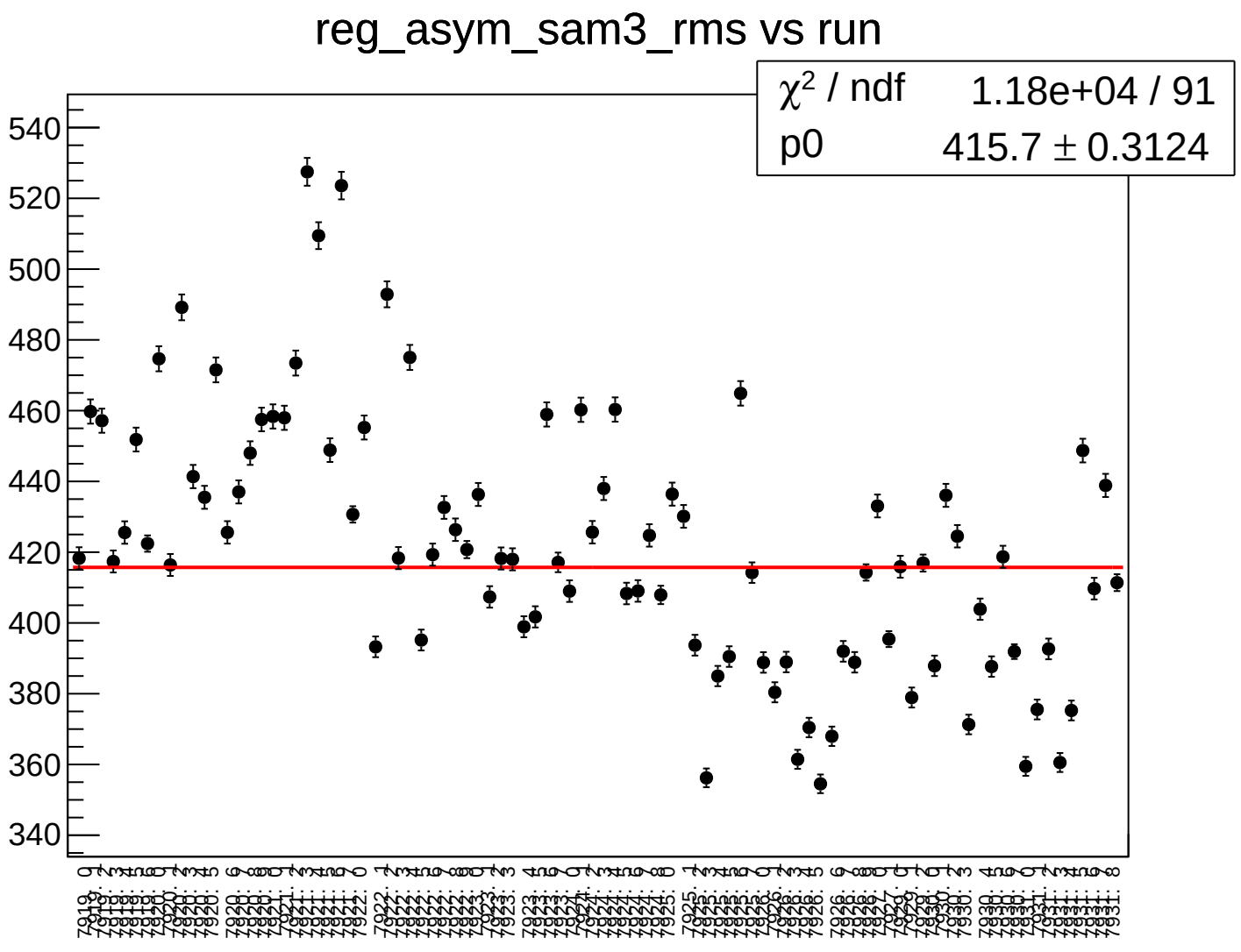

asym_sam2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.4 / 91
p0 −0.06925 ± 0.2365
pull
Entries 92
Mean −163.2
Std Dev 0
pull1D
Entries 92
Mean −0.01541
Std Dev 1.08

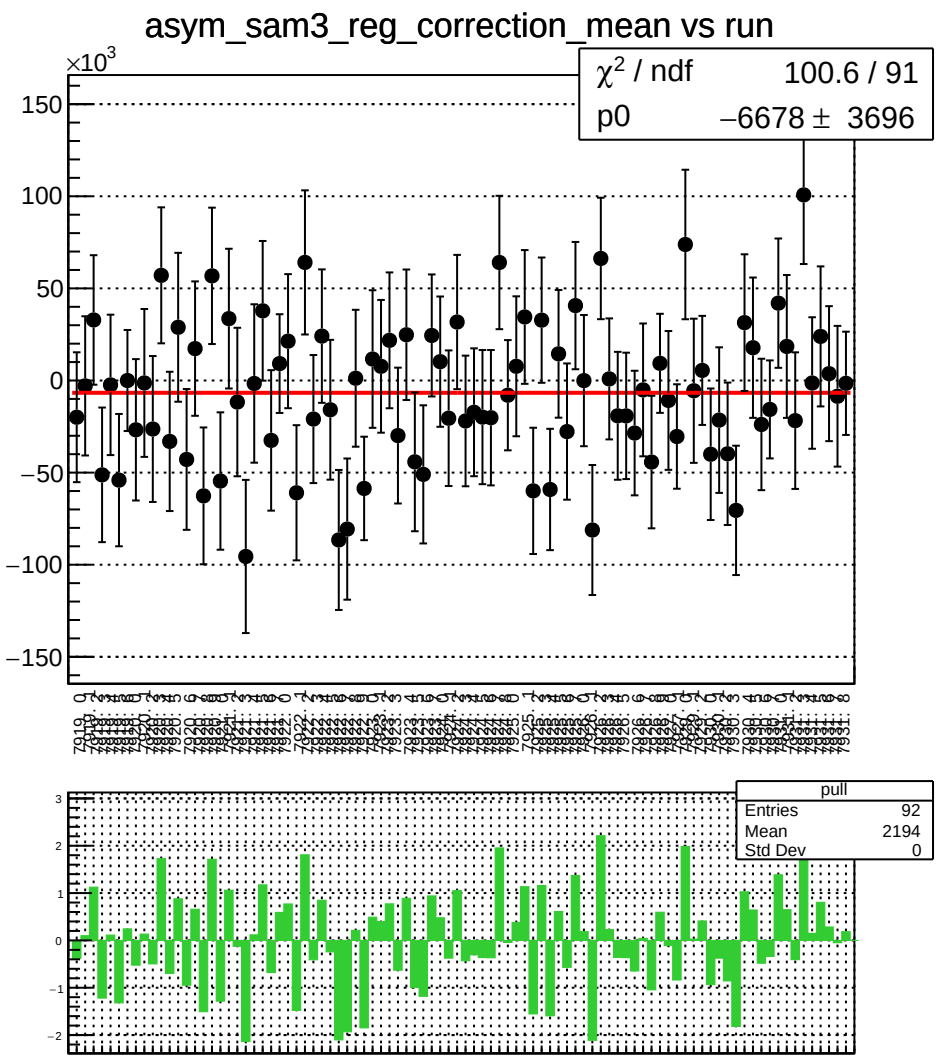

asym_sam2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.452e+04 / 91
p0 222.4 ± 0.1672
300
280
260
240
220
200
180
160

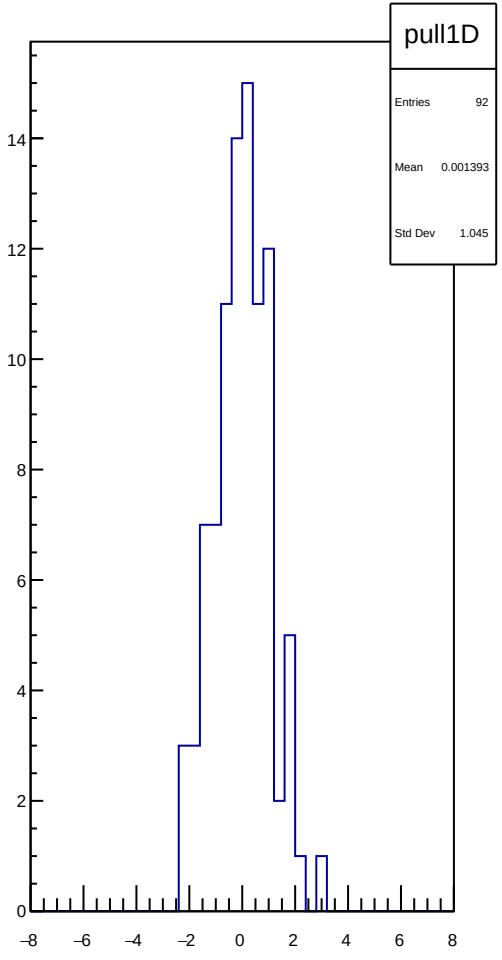

asym_sam2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.13 / 91
p0 1.809e−13 ± 4.965e−13
pull
Entries 92
Mean 88.46
Std Dev 0
pull1D
Entries 92
Mean 0.04831
Std Dev 1.016

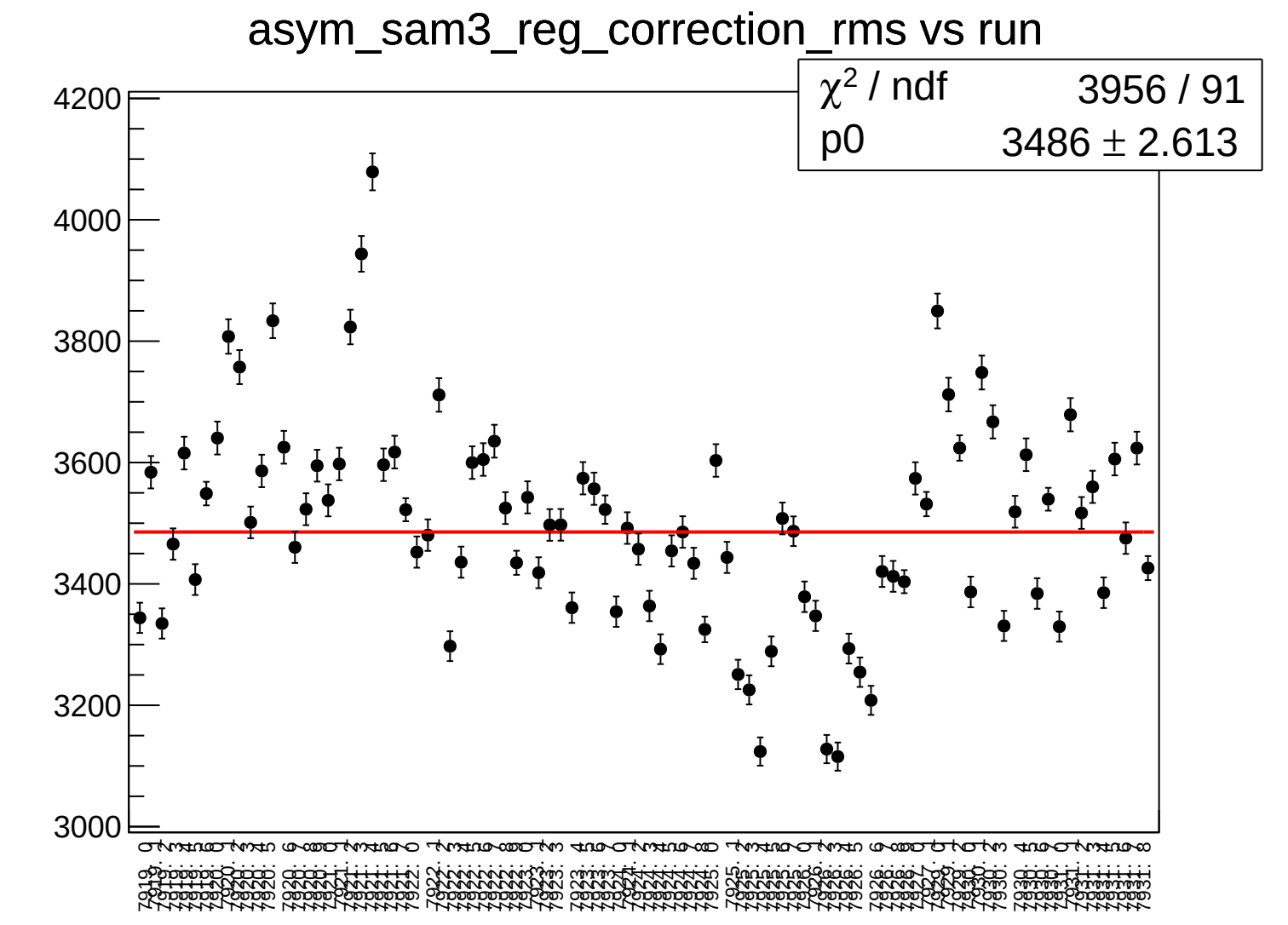

asym_sam2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.16e+06 / 91
p0 2.771e−10 ± 3.511e−13
3.5
3
2.5
2
1.5
1
0.5

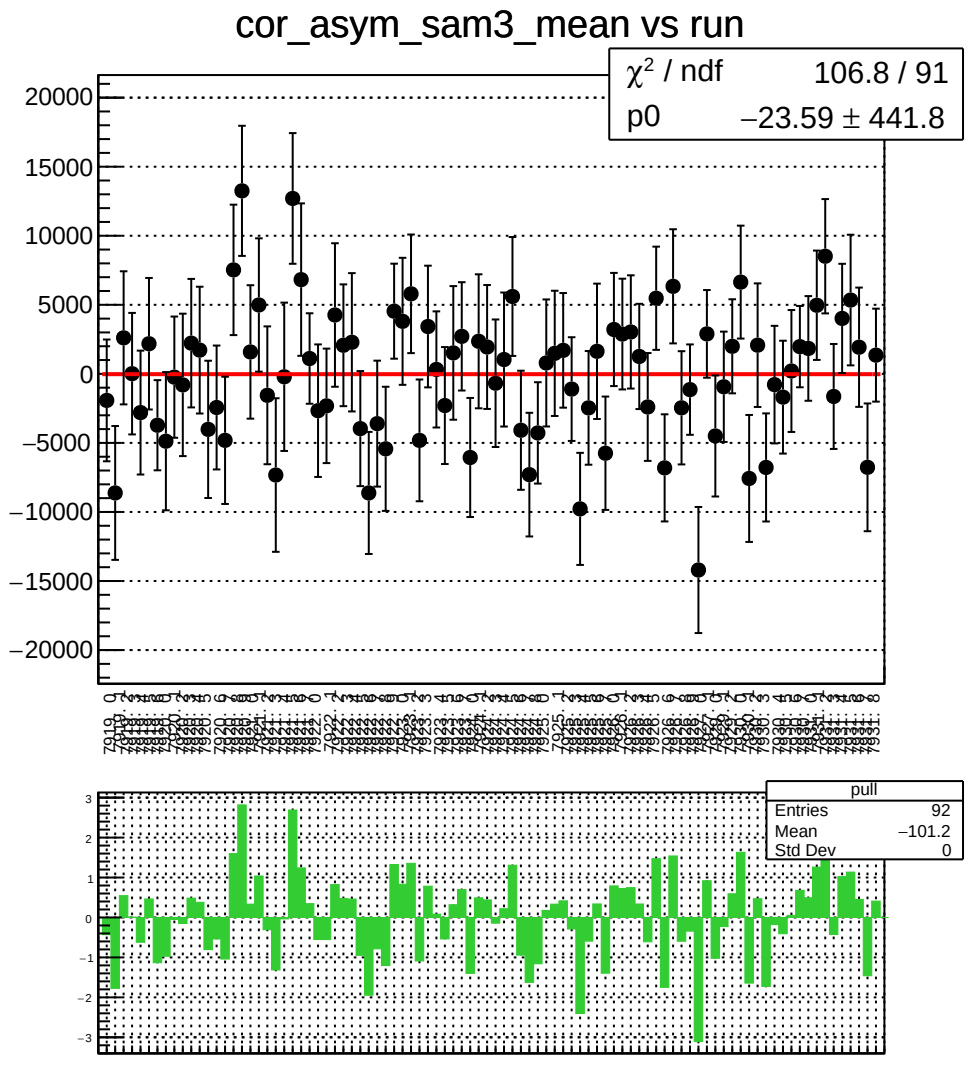

reg_asym_sam3_mean vs run
χ² / ndf 106.8 / 91
p0 −23.57 ± 441.8
pull
Entries 92
Mean −101.2
Std Dev 0
pull1D
Entries 92
Mean −0.006409
Std Dev 1.078

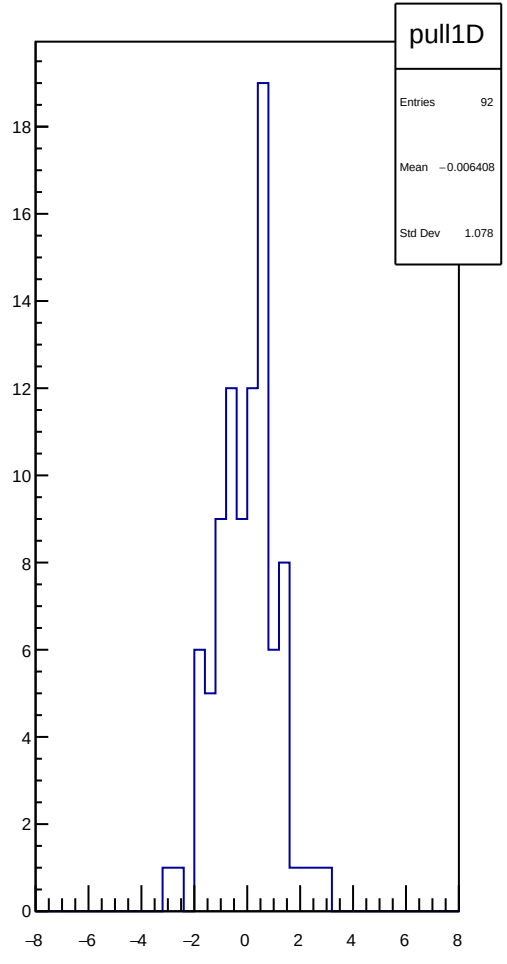

reg_asym_sam3_rms vs run
χ² / ndf 1.18e+04 / 91
p0 415.7 ± 0.3124
540
520
500
480
460
440
420
400
380
360
340

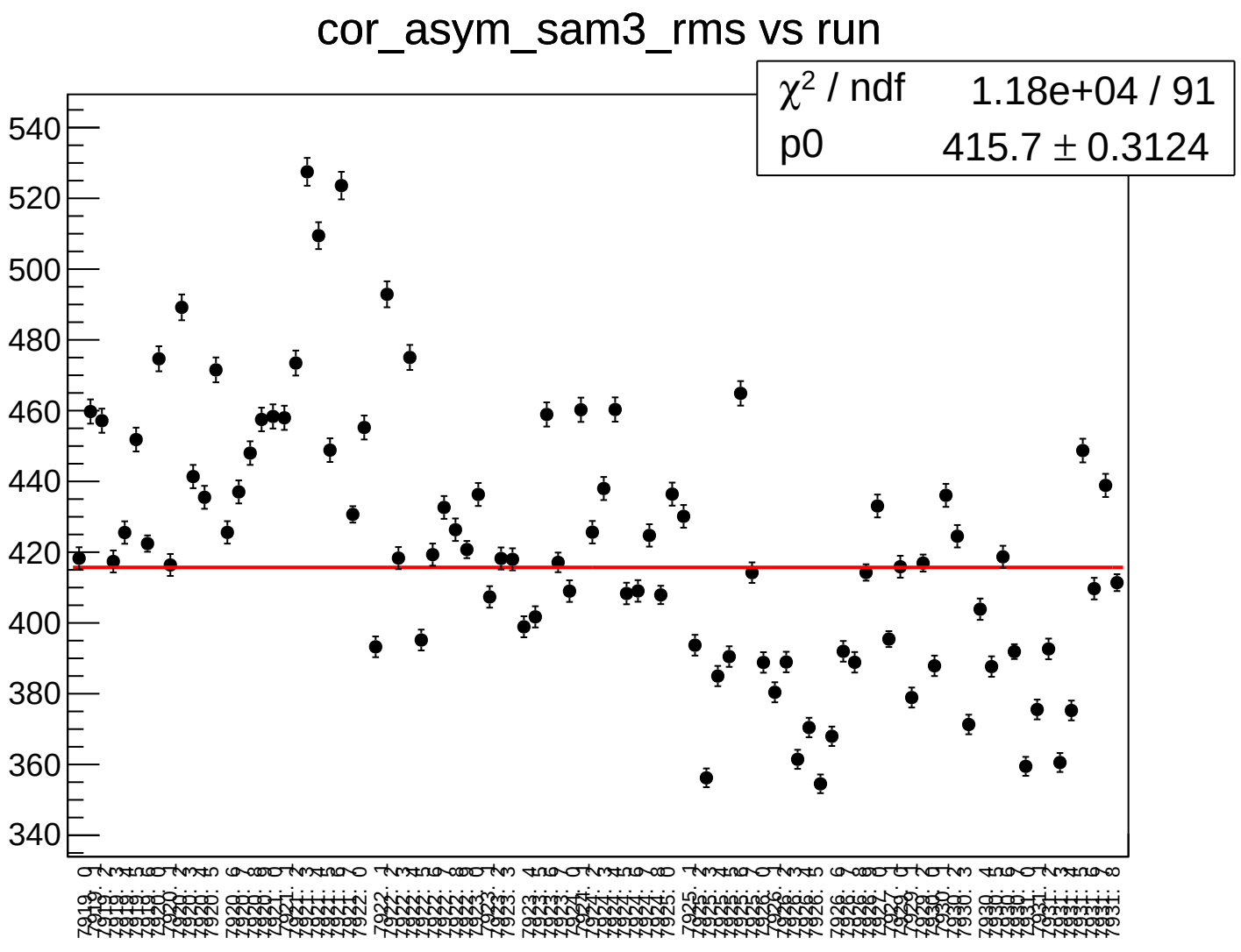

asym_sam3_reg_correction_mean vs run
×10^3
χ² / ndf 100.6 / 91
p0 −6678 ± 3696
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean 2194
Std Dev 0
3
2
1
0
−1
−2

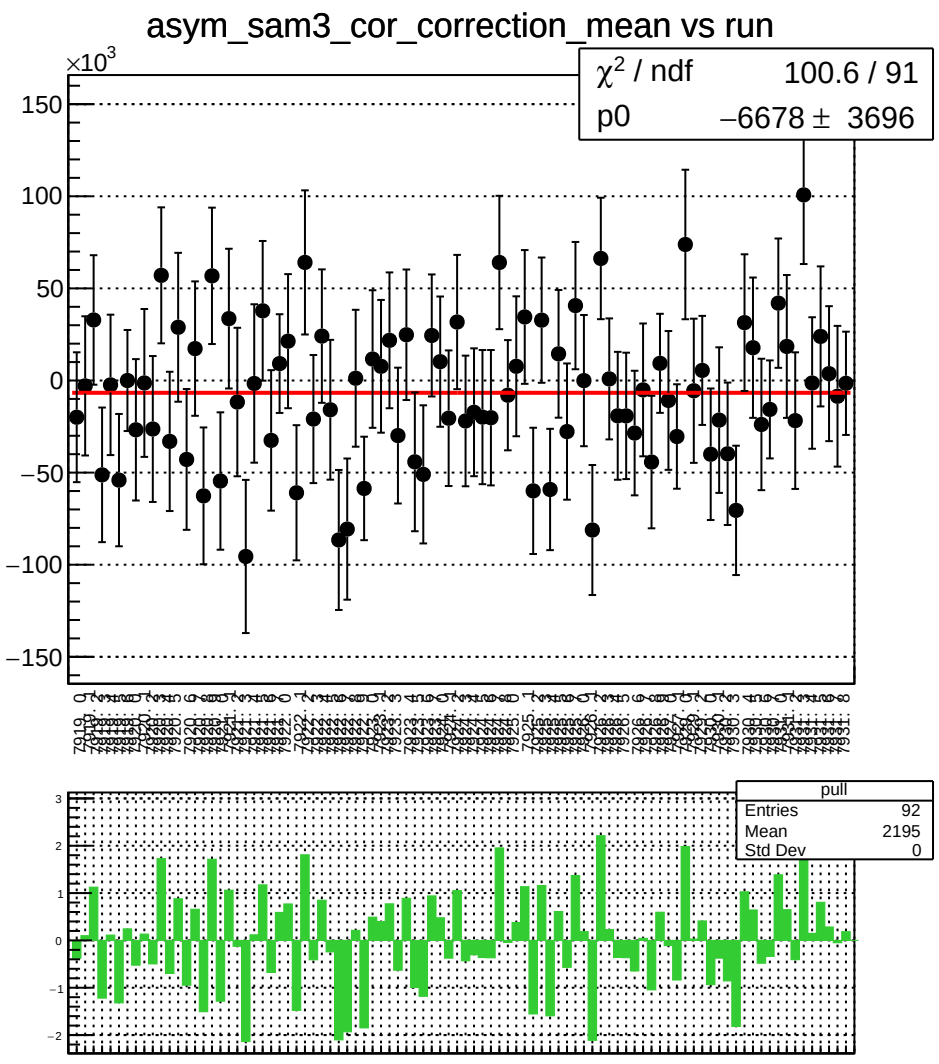

pull1D
Entries 92
Mean 0.001393
Std Dev 1.045
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

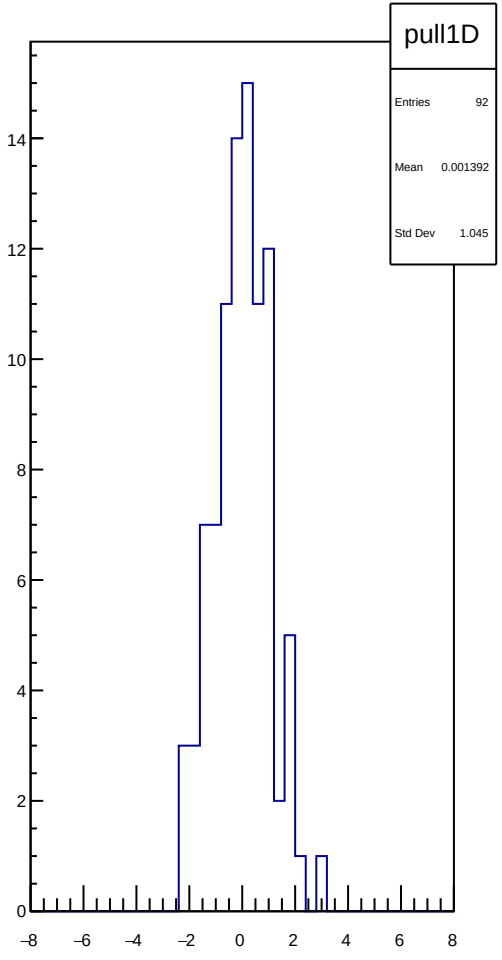

asym_sam3_reg_correction_rms vs run
χ² / ndf 3956 / 91
p0 3486 ± 2.613
4200
4000
3800
3600
3400
3200
3000

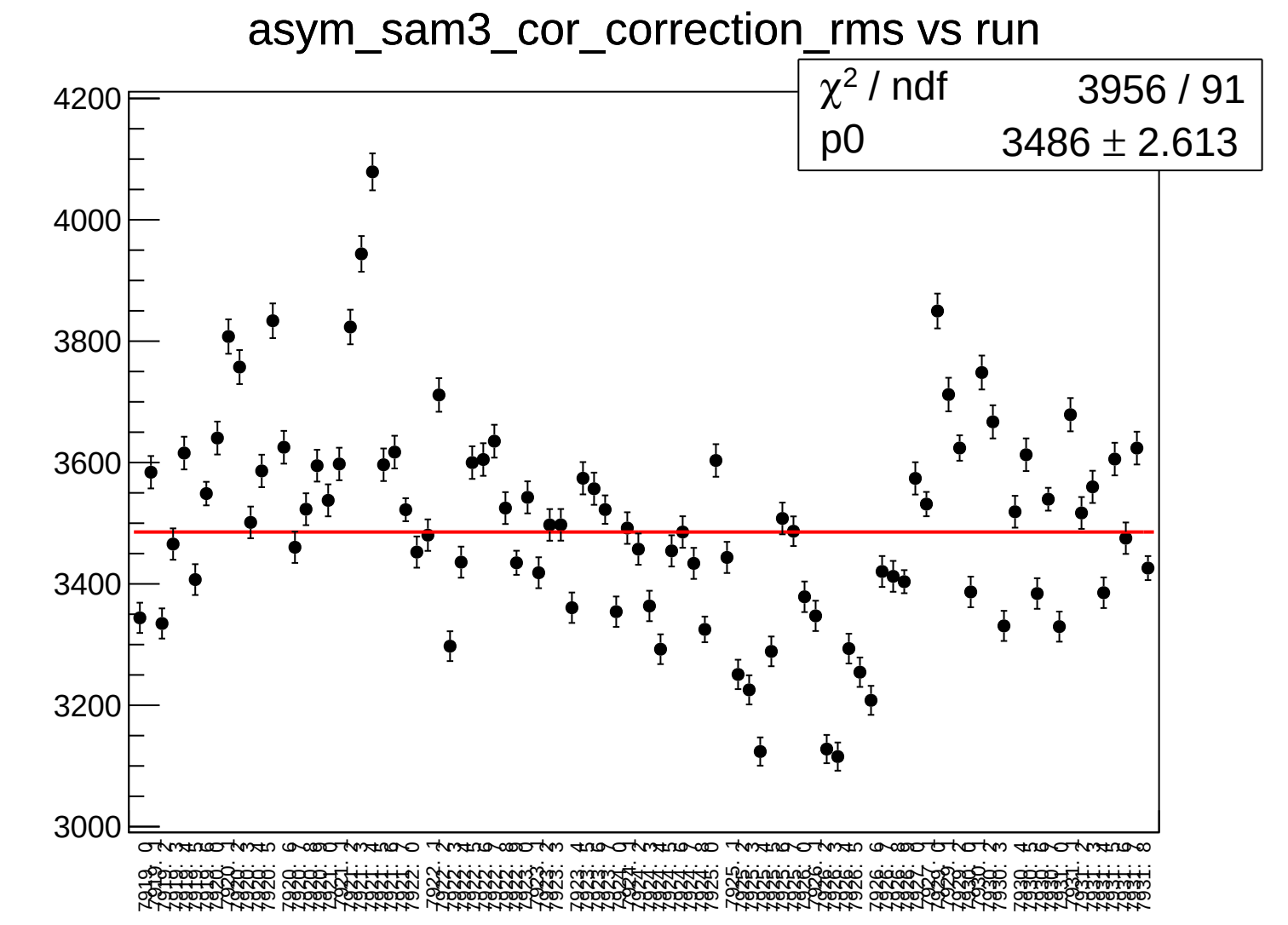

cor_asym_sam3_mean vs run
χ² / ndf 106.8 / 91
p0 −23.59 ± 441.8
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 92
Mean −101.2
Std Dev 0
3
2
1
0
−1
−2
−3

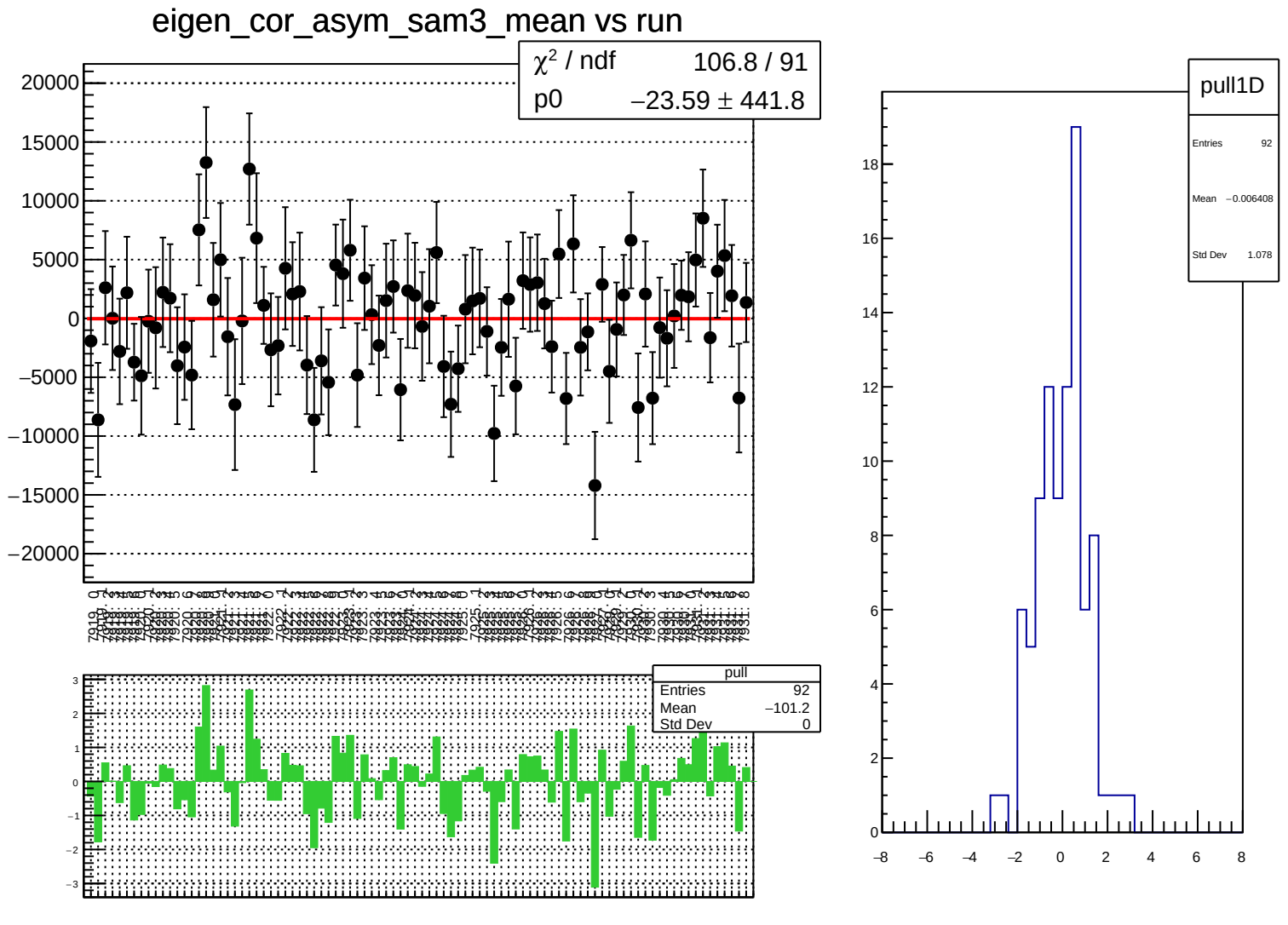

pull1D
Entries 92
Mean −0.006408
Std Dev 1.078
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

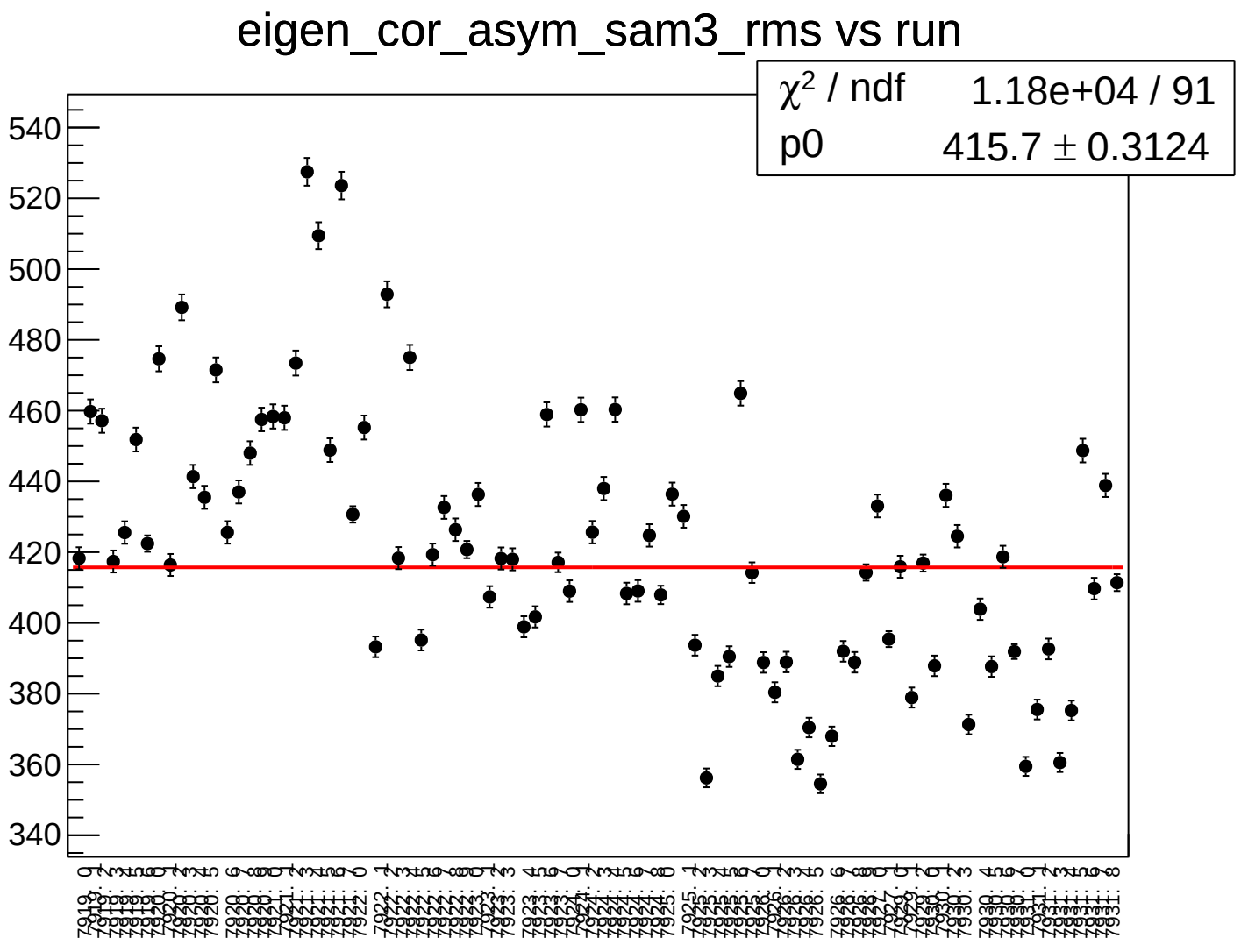

cor_asym_sam3_rms vs run
χ² / ndf 1.18e+04 / 91
p0 415.7 ± 0.3124
540
520
500
480
460
440
420
400
380
360
340

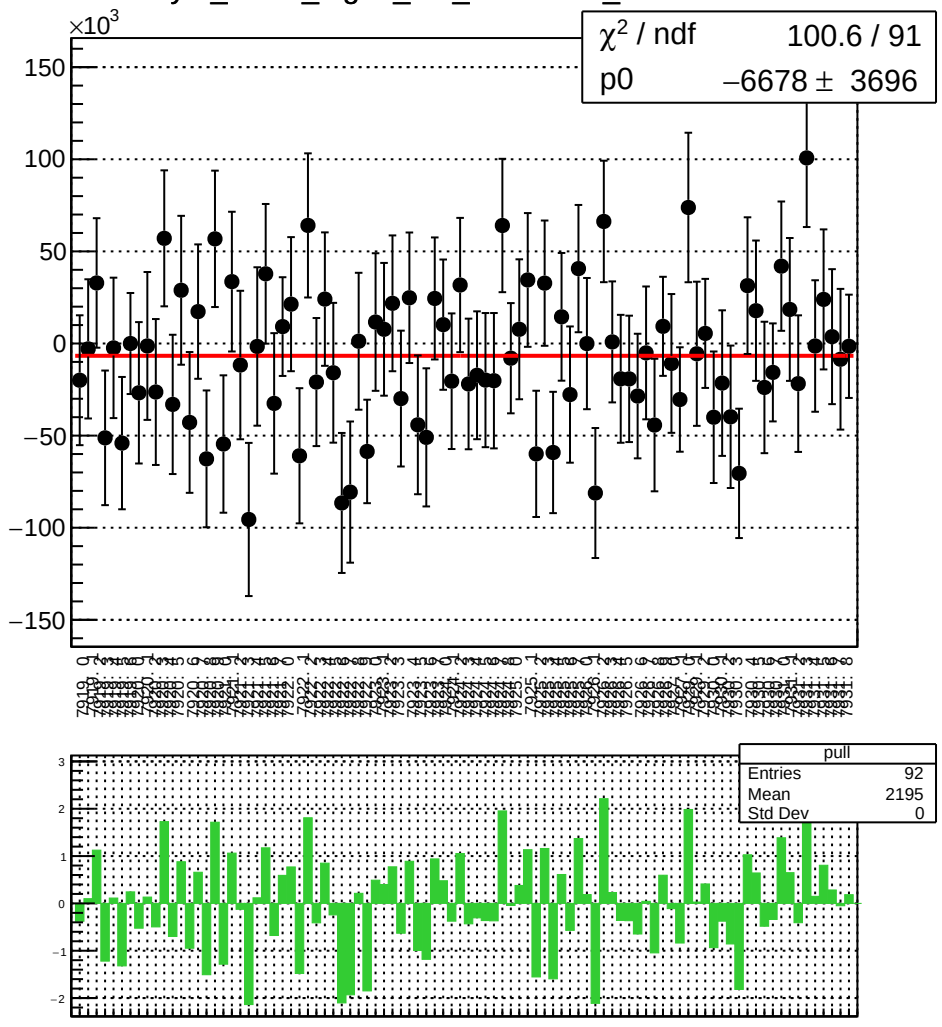

asym_sam3_cor_correction_mean vs run
×10^3
χ² / ndf 100.6 / 91
p0 −6678 ± 3696
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean 2195
Std Dev 0
3
2
1
0
−1
−2

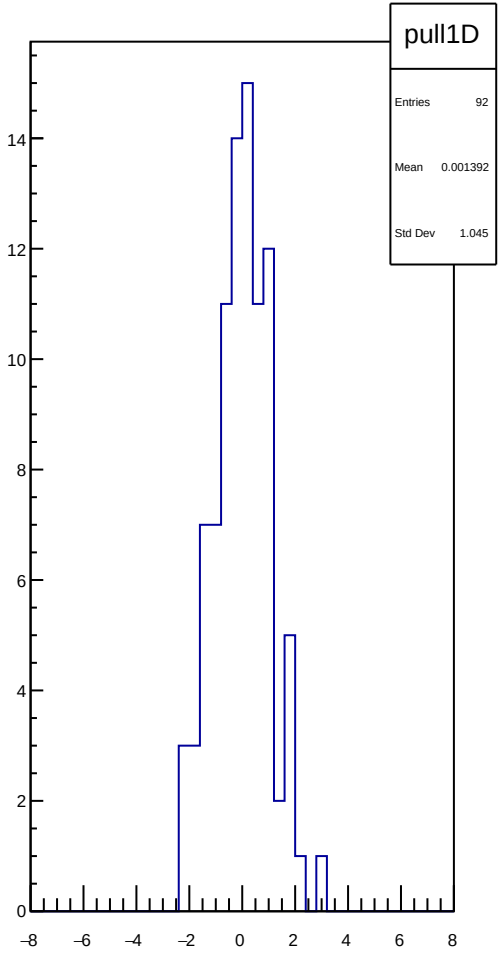

pull1D
Entries 92
Mean 0.001392
Std Dev 1.045
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

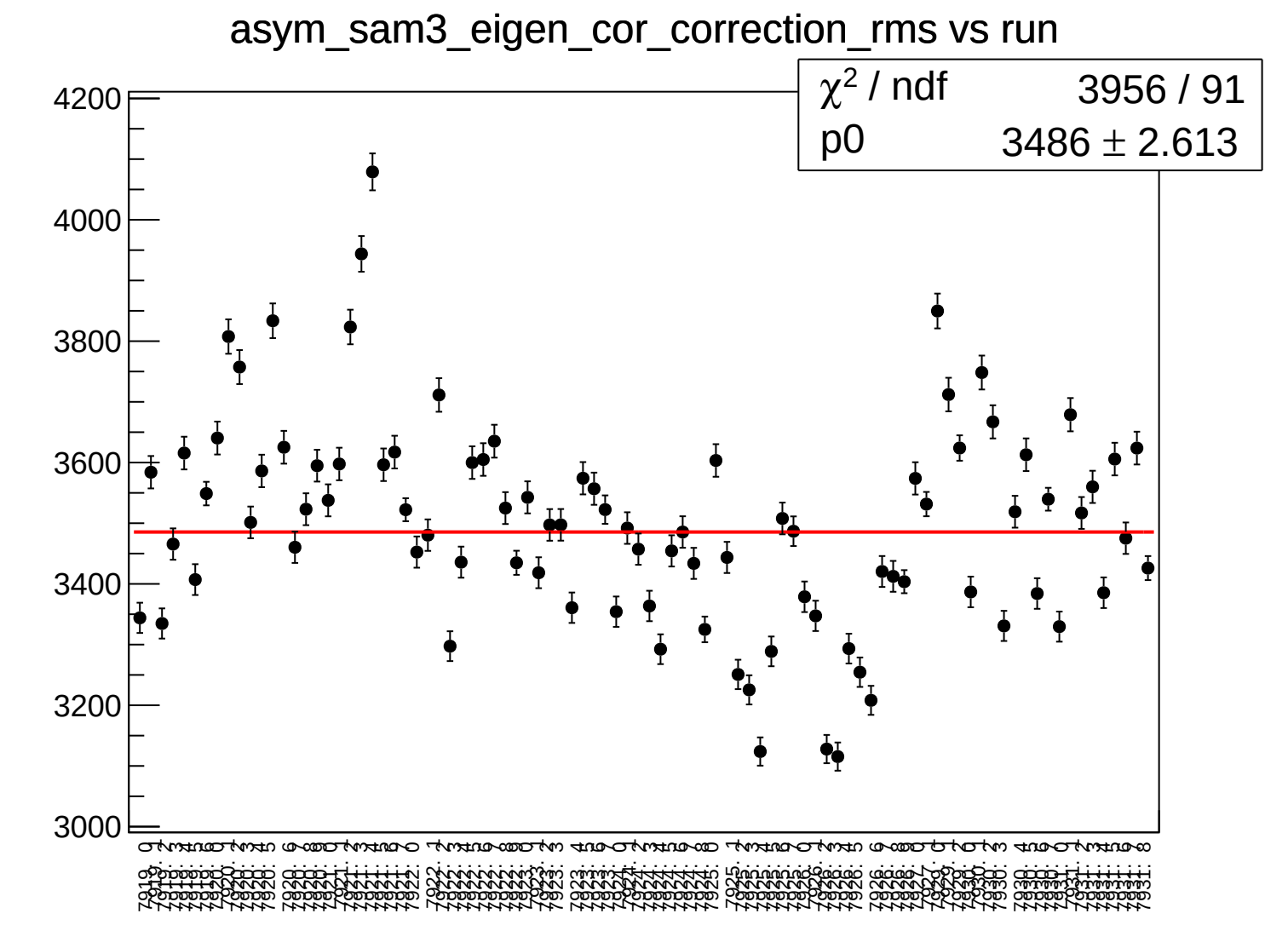

asym_sam3_cor_correction_rms vs run
χ² / ndf 3956 / 91
p0 3486 ± 2.613
4200
4000
3800
3600
3400
3200
3000

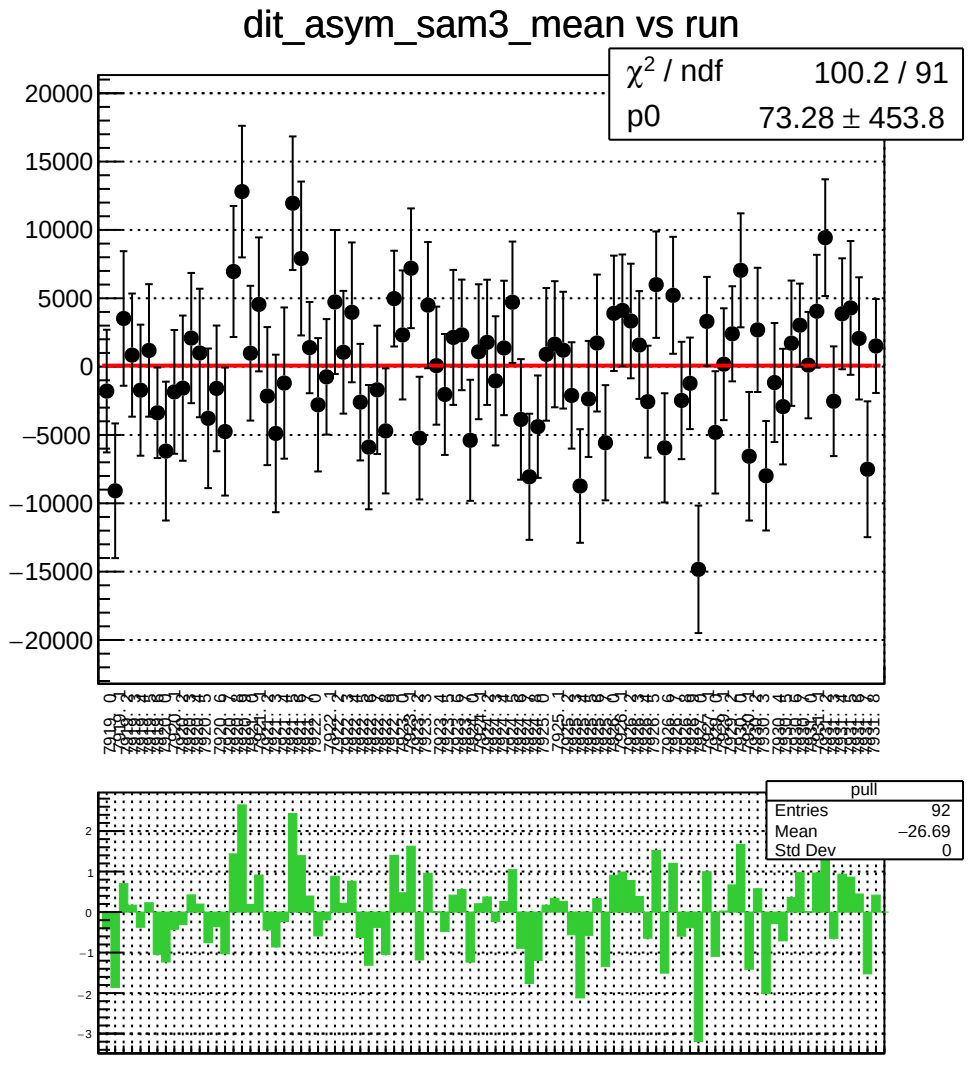

eigen_cor_asym_sam3_mean vs run
χ² / ndf 106.8 / 91
p0 −23.59 ± 441.8
pull
Entries 92
Mean −101.2
Std Dev 0
pull1D
Entries 92
Mean −0.006408
Std Dev 1.078

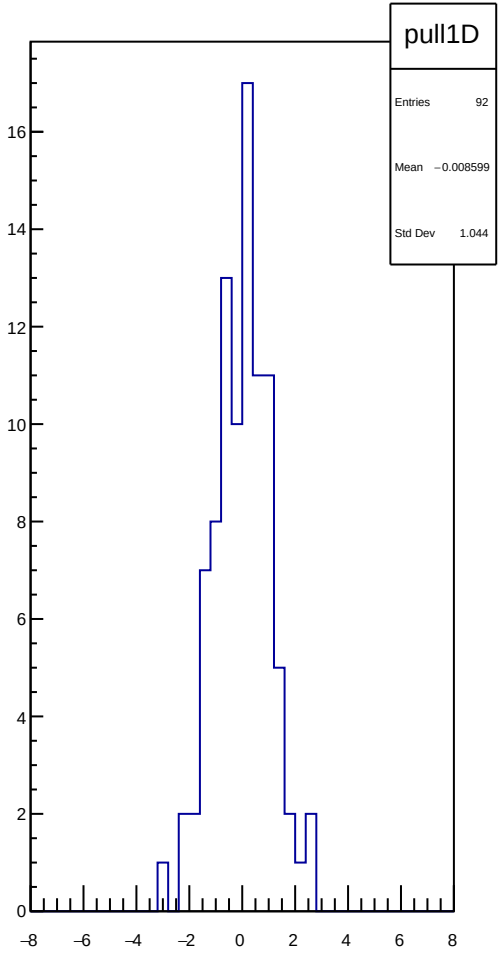

eigen_cor_asym_sam3_rms vs run
χ² / ndf 1.18e+04 / 91
p0 415.7 ± 0.3124
540
520
500
480
460
440
420
400
380
360
340

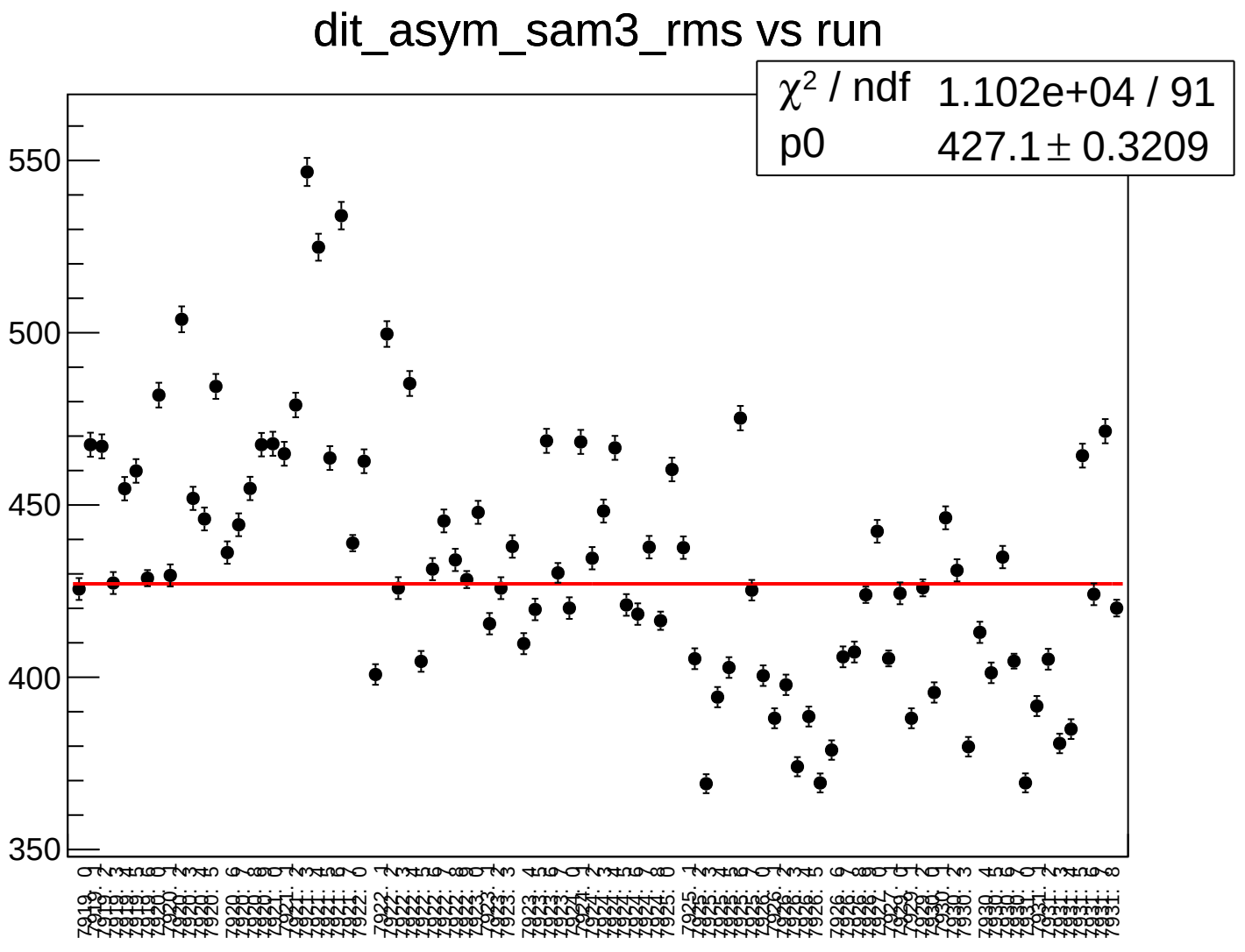

asym_sam3_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 100.6 / 91
p0 −6678 ± 3696
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean 2195
Std Dev 0
3
2
1
0
−1
−2

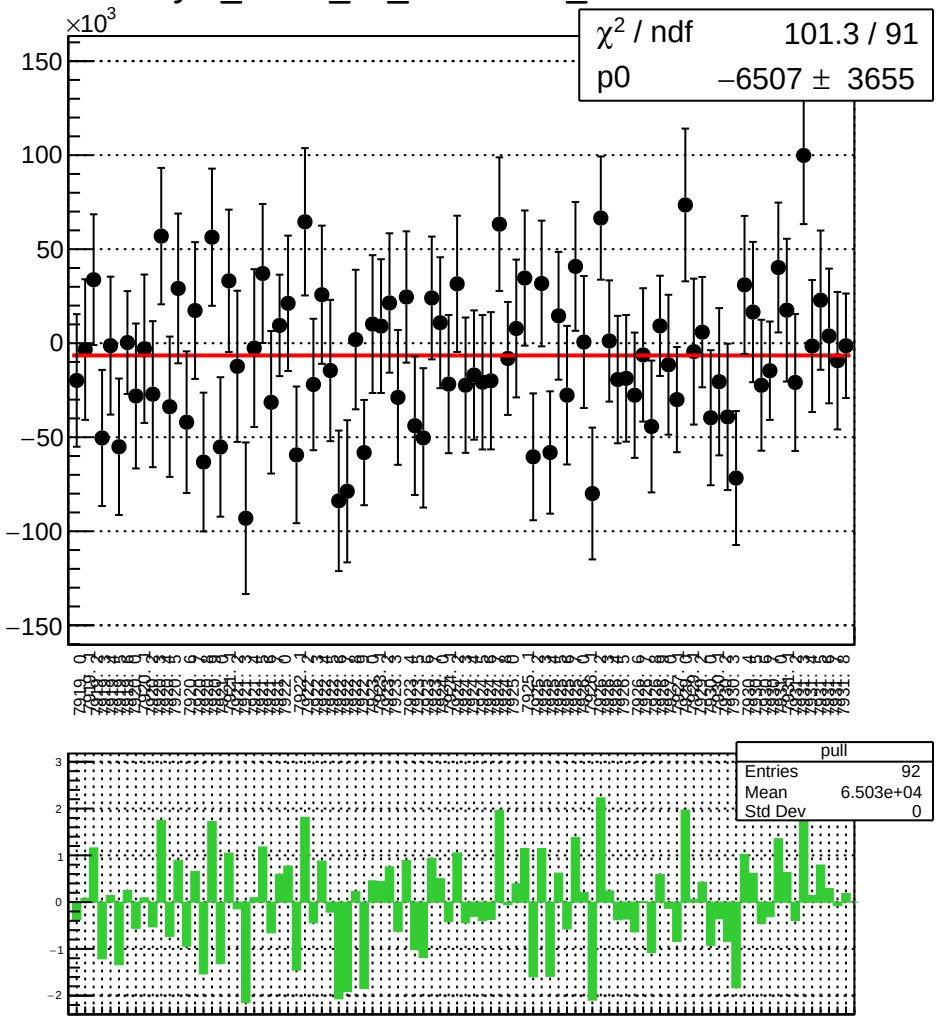

pull1D
Entries 92
Mean 0.001392
Std Dev 1.045
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

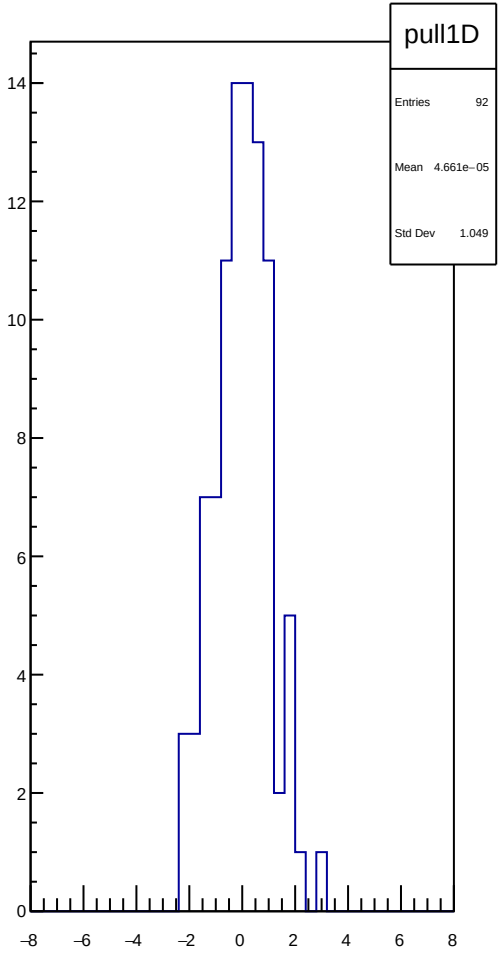

asym_sam3_eigen_cor_correction_rms vs run
χ² / ndf 3956 / 91
p0 3486 ± 2.613
4200
4000
3800
3600
3400
3200
3000

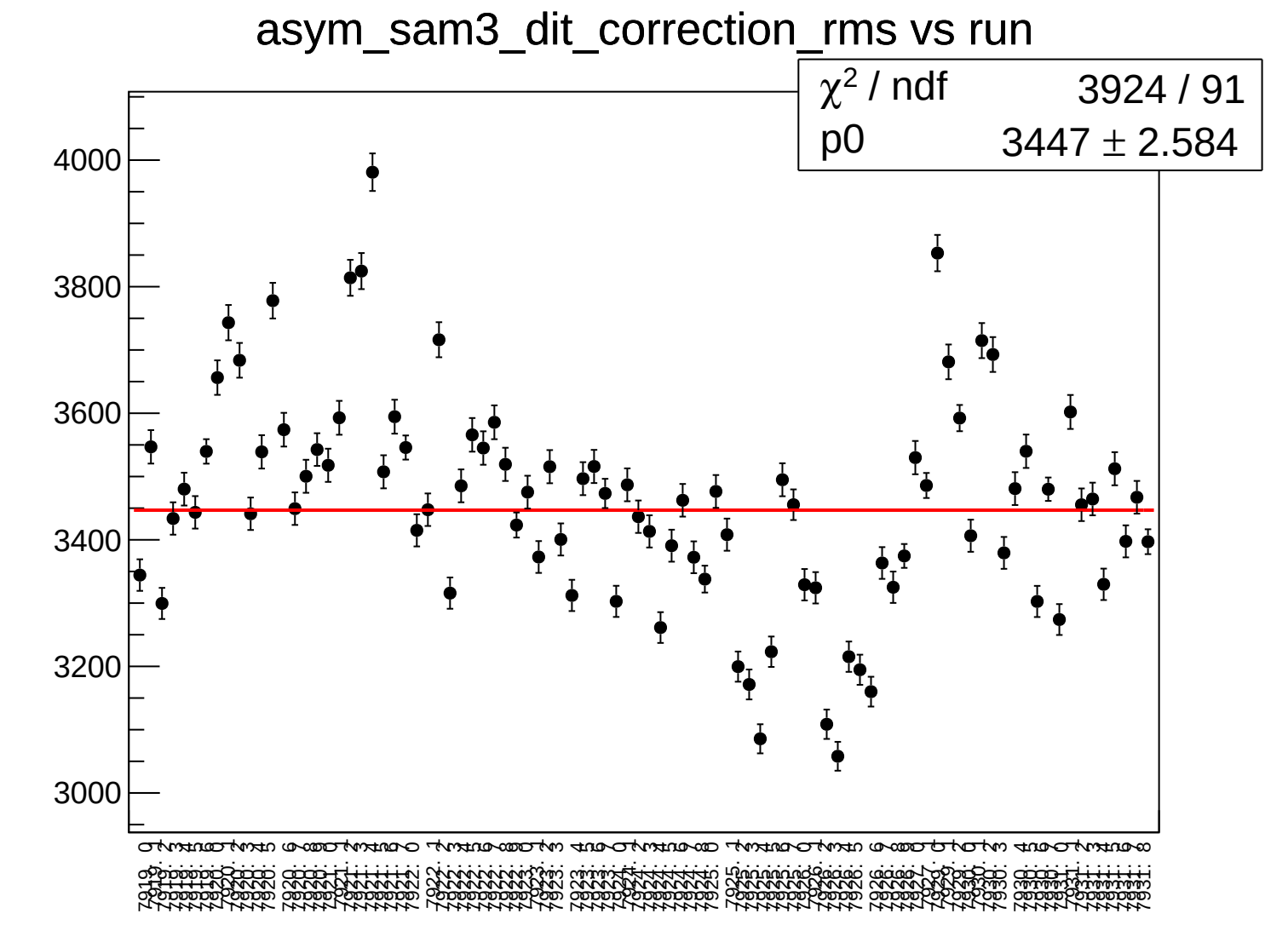

dit_asym_sam3_mean vs run
χ^2 / ndf 100.2 / 91
p0 73.28 ± 453.8
pull
Entries 92
Mean −26.69
Std Dev 0

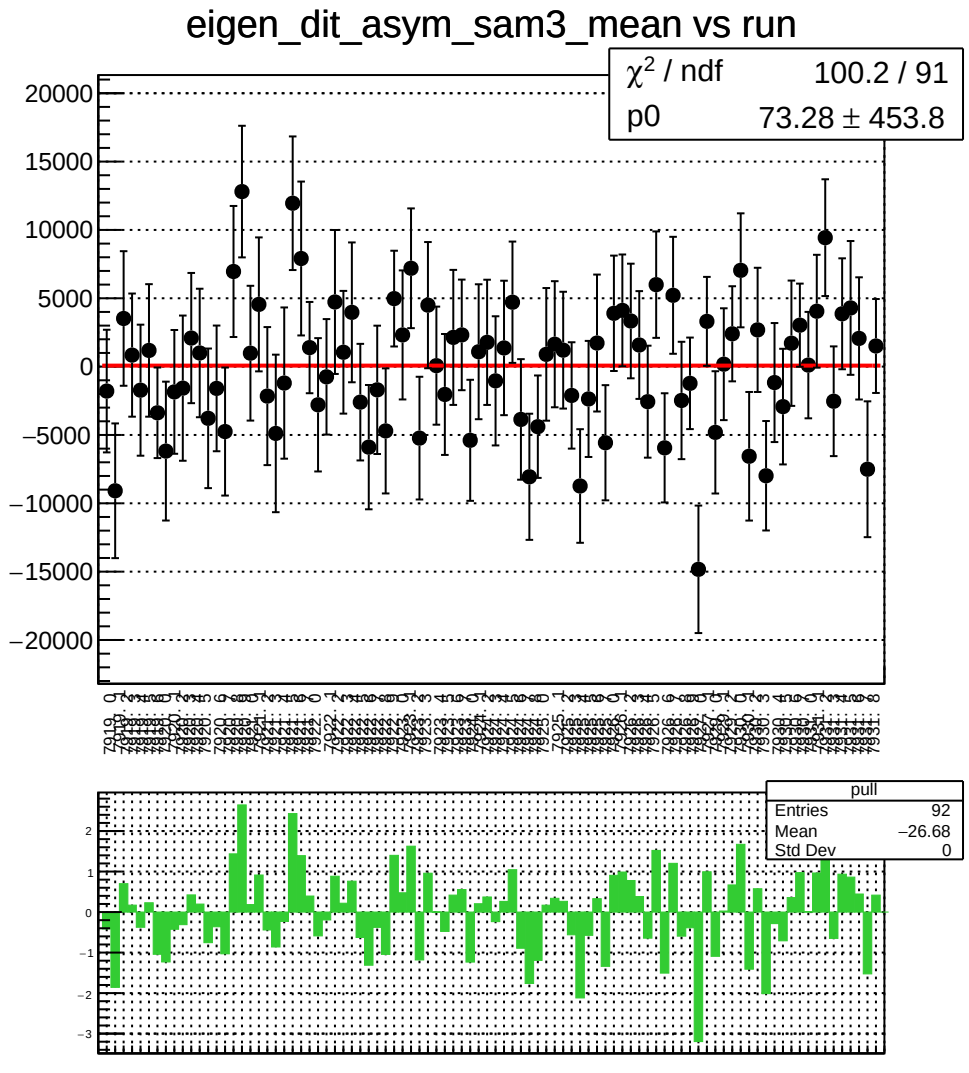

pull1D
Entries 92
Mean −0.008599
Std Dev 1.044

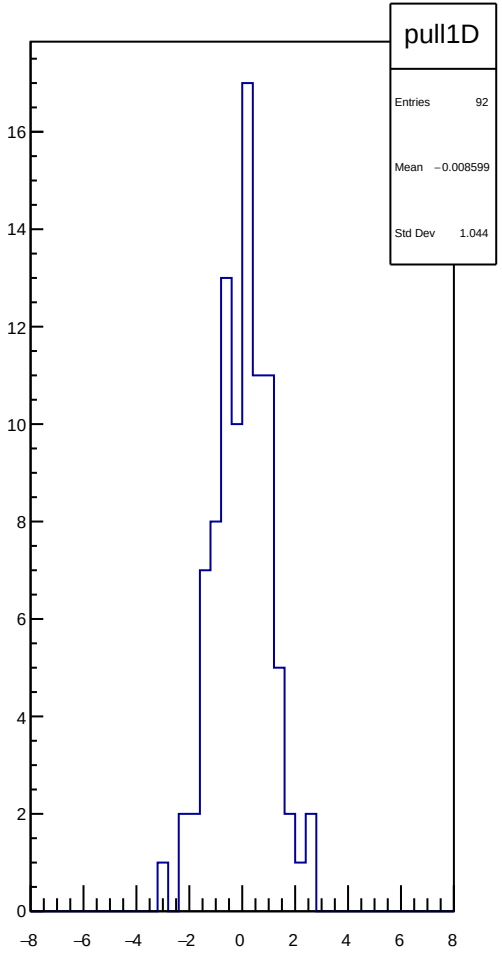

dit_asym_sam3_rms vs run
χ² / ndf 1.102e+04 / 91
p0 427.1 ± 0.3209
550
500
450
400
350

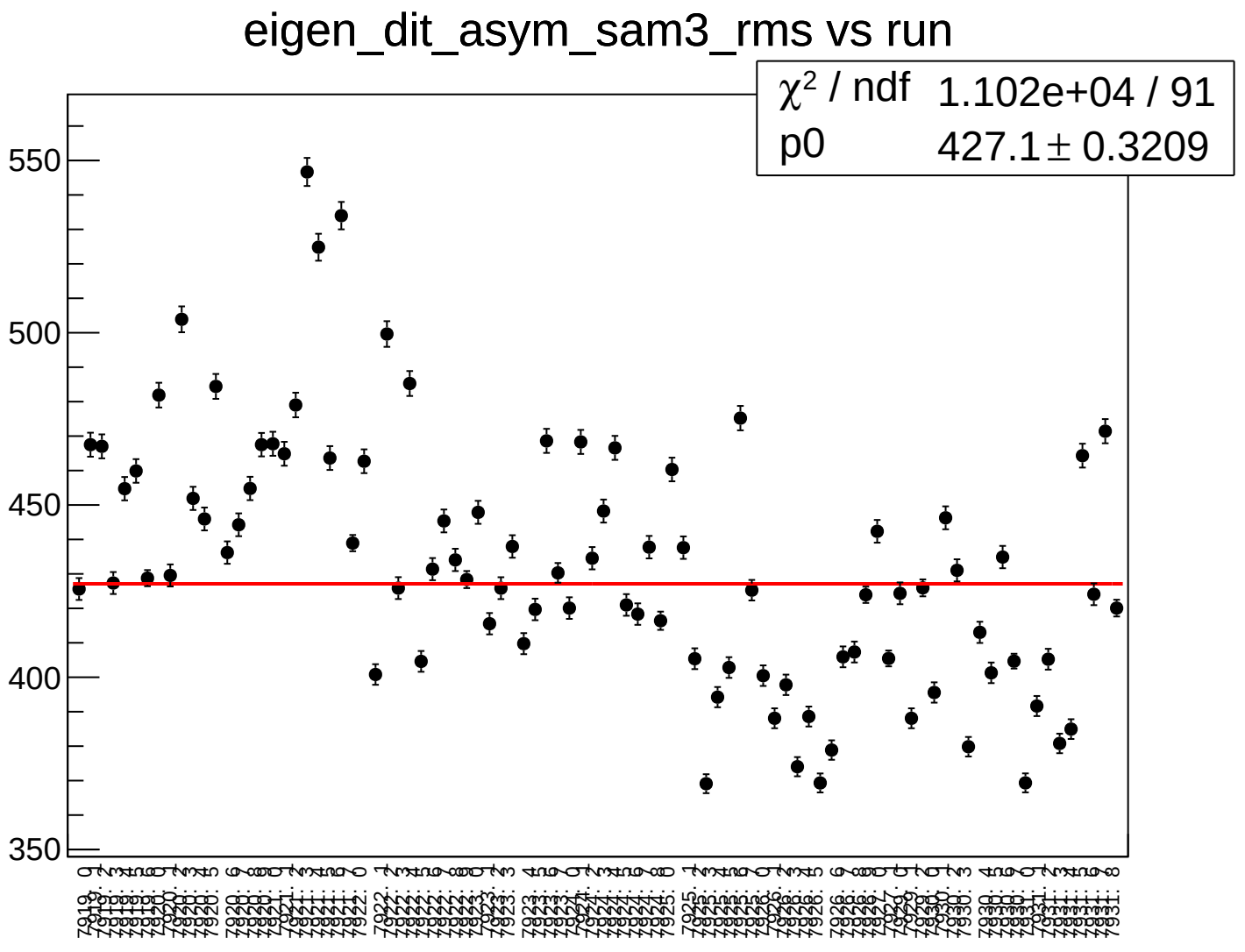

asym_sam3_dit_correction_mean vs run
×10^3
χ² / ndf 101.3 / 91
p0 −6507 ± 3655
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean 6.503e+04
Std Dev 0
3
2
1
0
−1
−2

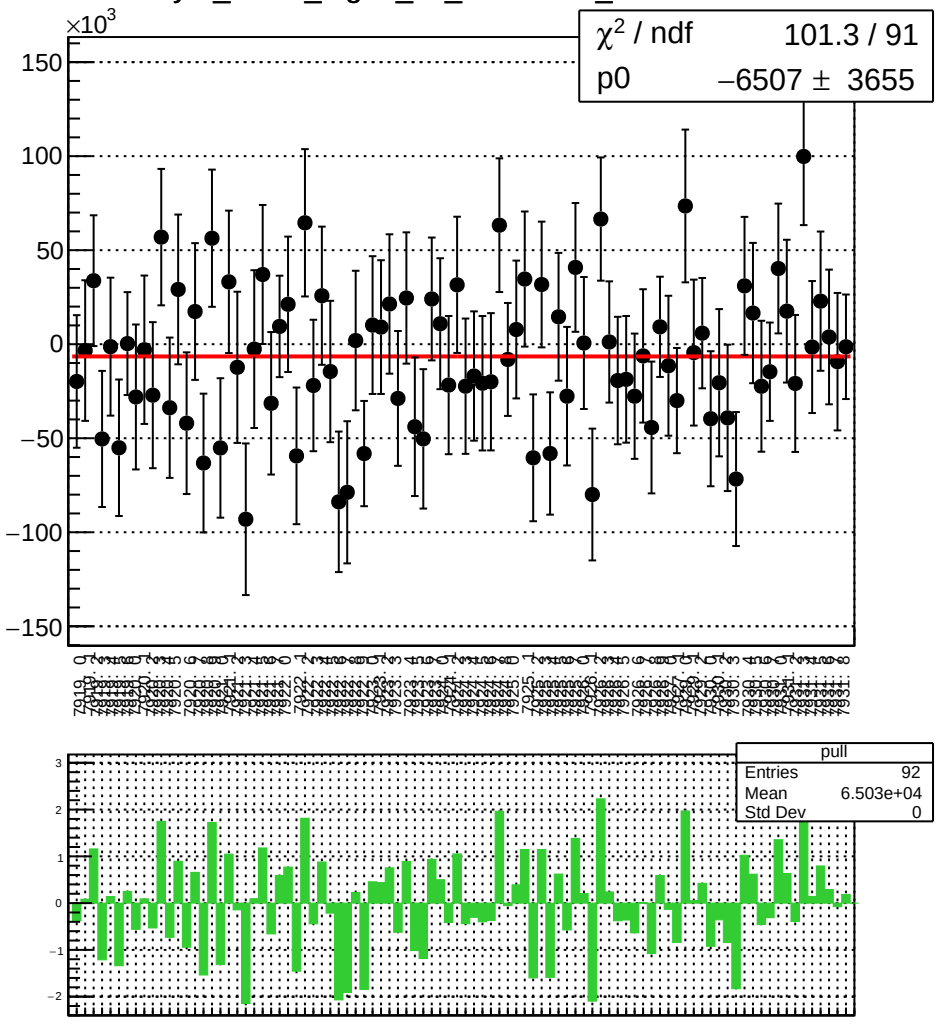

pull1D
Entries 92
Mean 4.661e−05
Std Dev 1.049
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

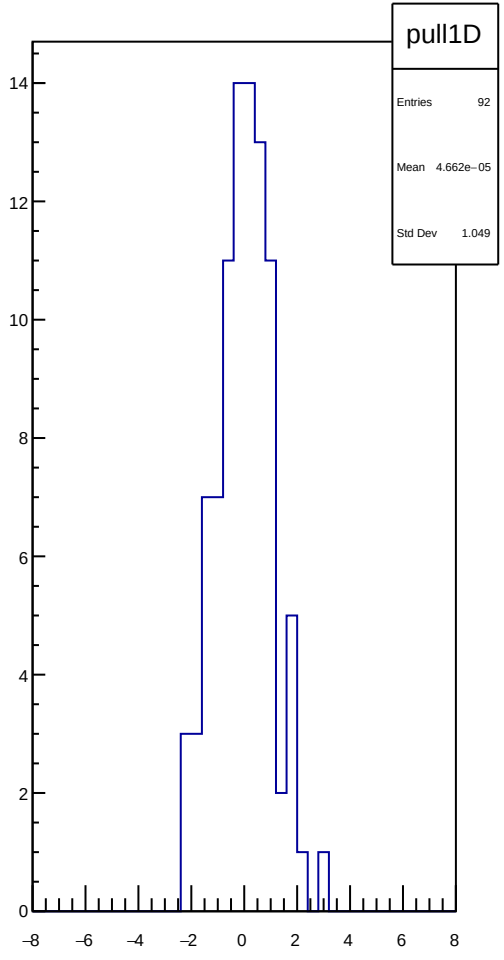

asym_sam3_dit_correction_rms vs run
χ² / ndf 3924 / 91
p0 3447 ± 2.584
4000
3800
3600
3400
3200
3000

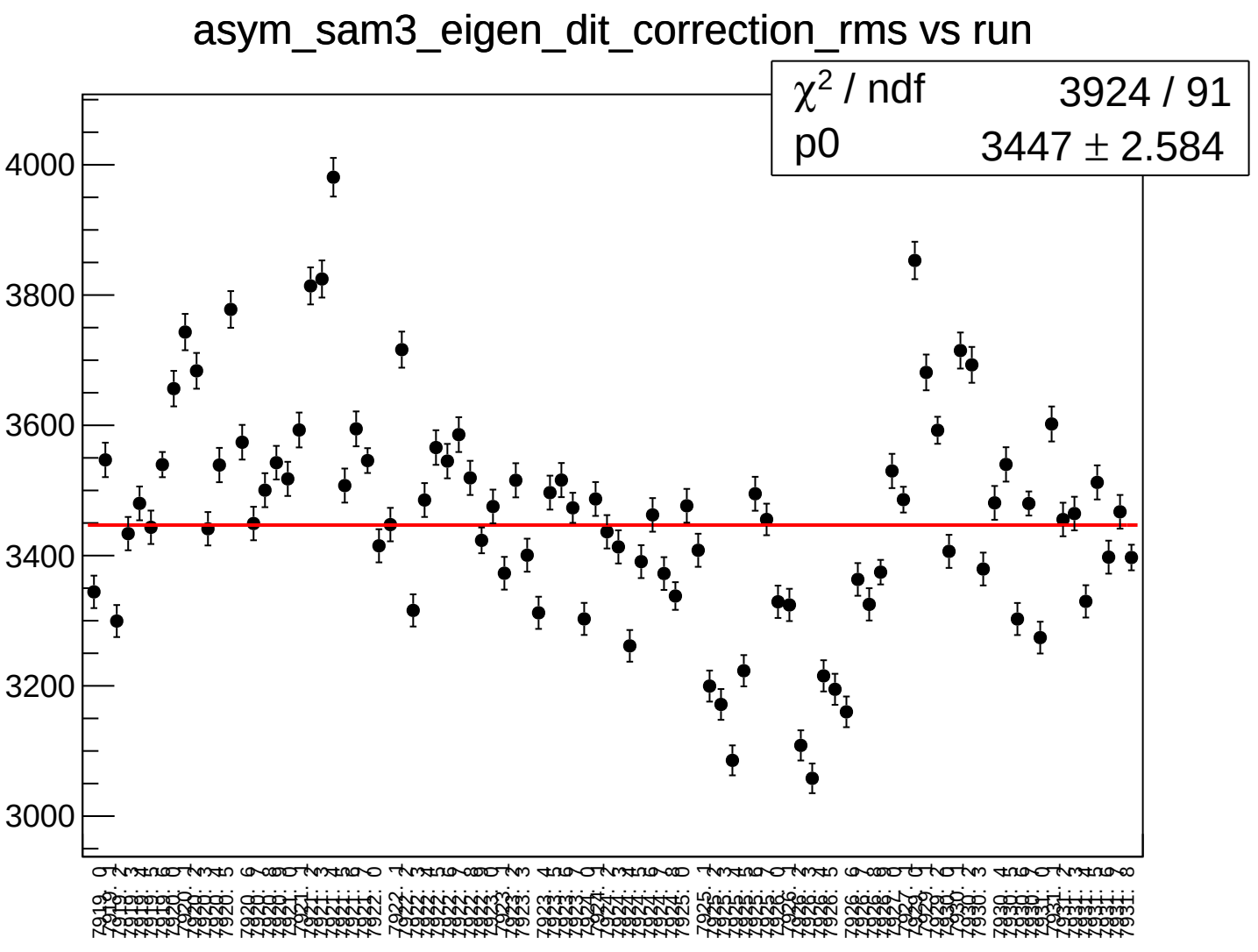

eigen_dit_asym_sam3_mean vs run
χ^2 / ndf 100.2 / 91
p0 73.28 ± 453.8
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 92
Mean −26.68
Std Dev 0
2
1
0
−1
−2
−3

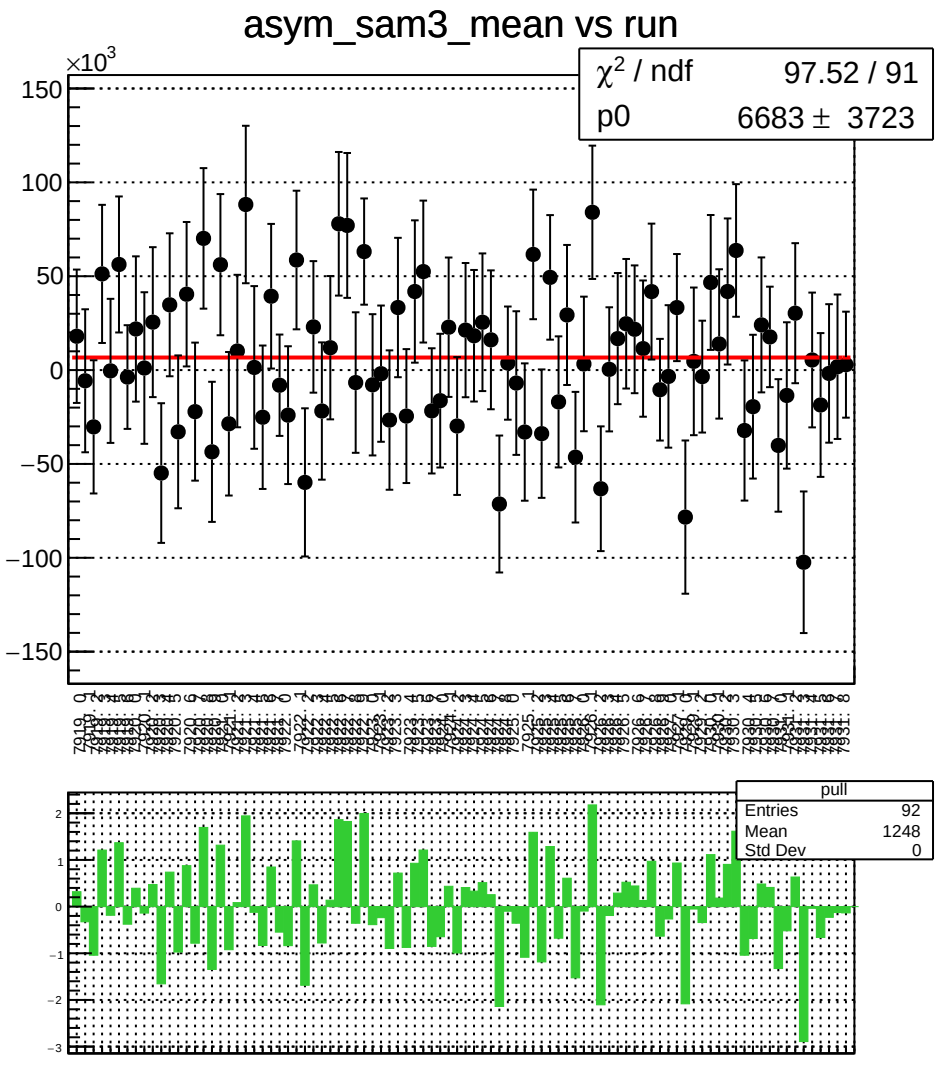

pull1D
Entries 92
Mean −0.008599
Std Dev 1.044
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

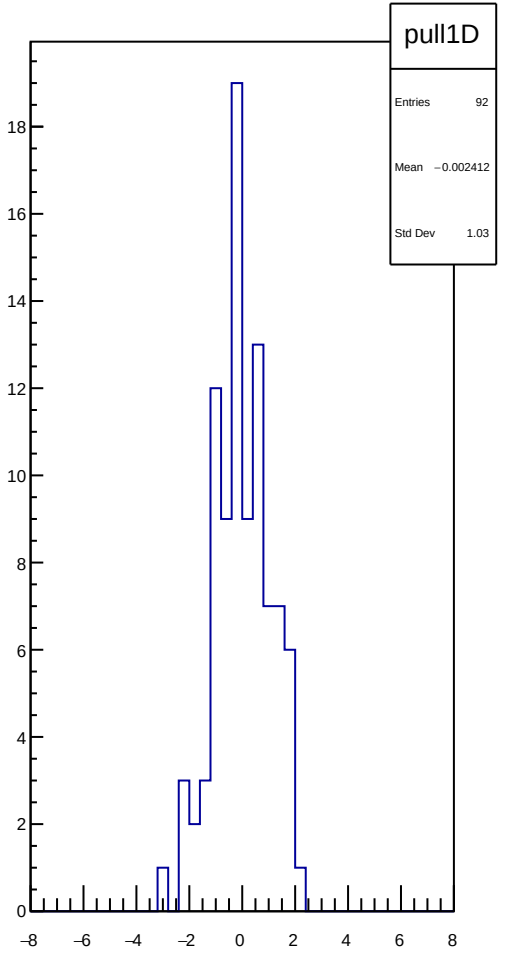

eigen_dit_asym_sam3_rms vs run
χ² / ndf 1.102e+04 / 91
p0 427.1 ± 0.3209
550
500
450
400
350

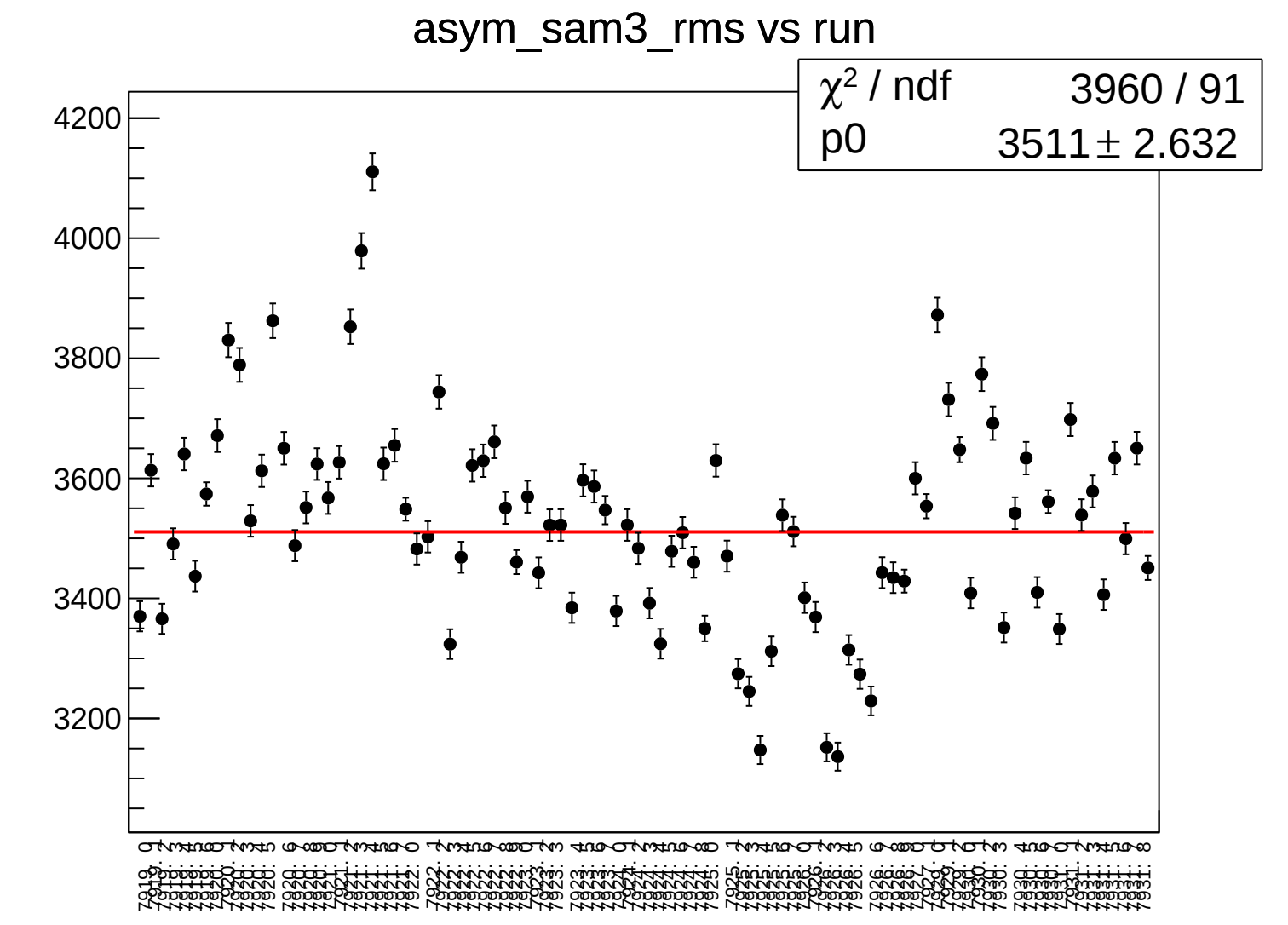

asym_sam3_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 101.3 / 91
p0 −6507 ± 3655
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean 6.503e+04
Std Dev 0
3
2
1
0
−1
−2

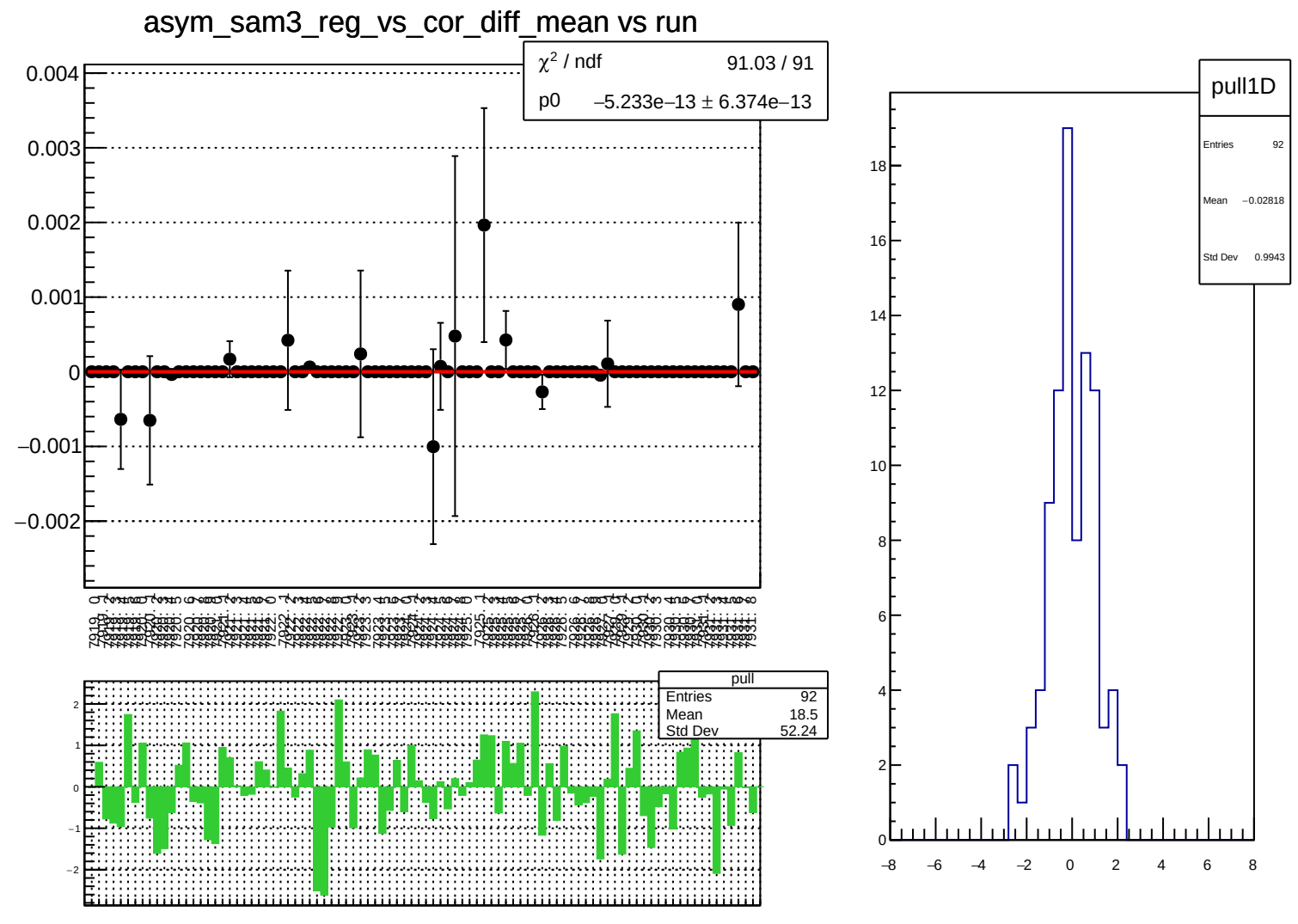

pull1D
Entries 92
Mean 4.662e−05
Std Dev 1.049
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

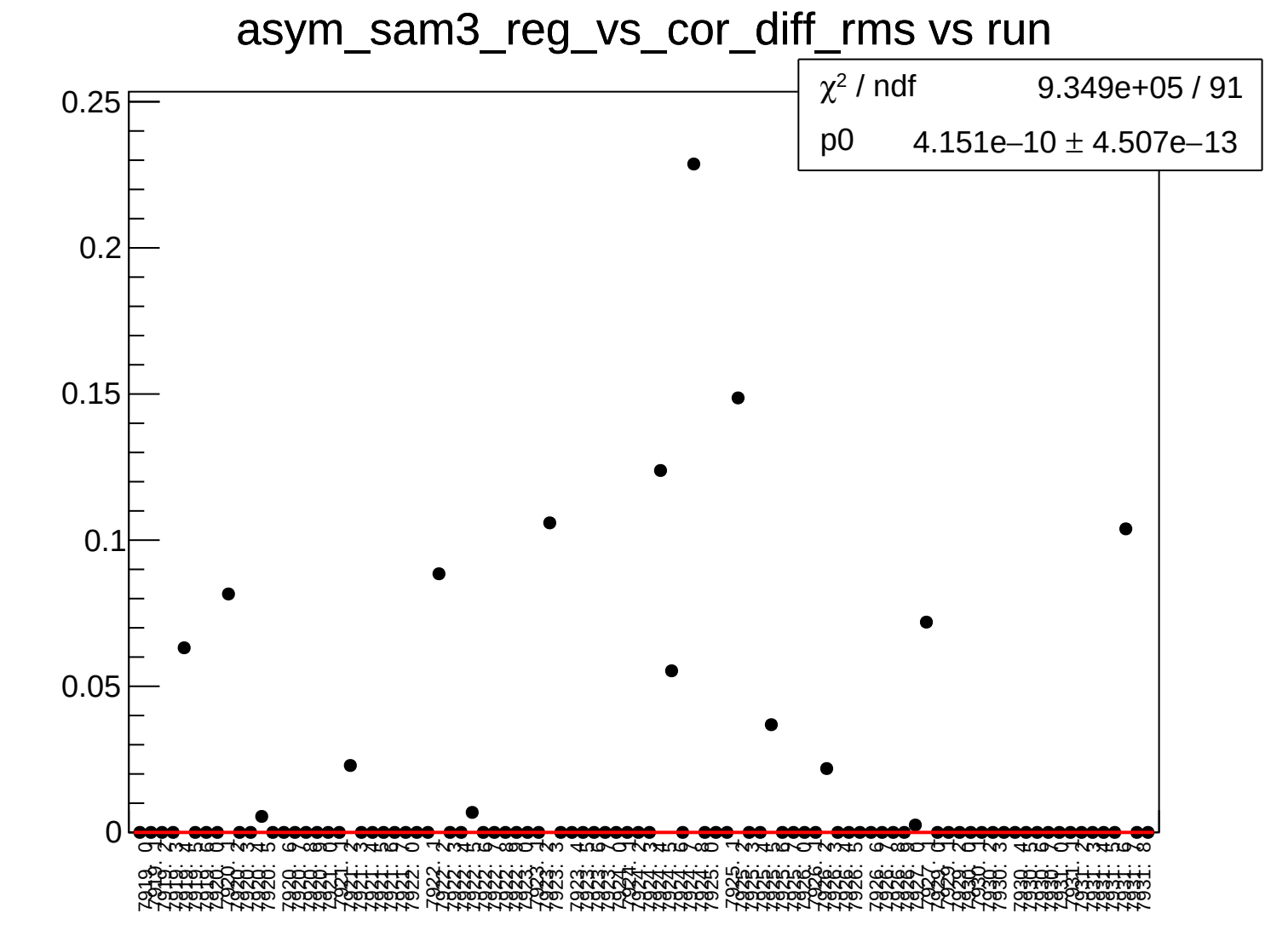

asym_sam3_eigen_dit_correction_rms vs run
χ² / ndf 3924 / 91
p0 3447 ± 2.584
4000
3800
3600
3400
3200
3000

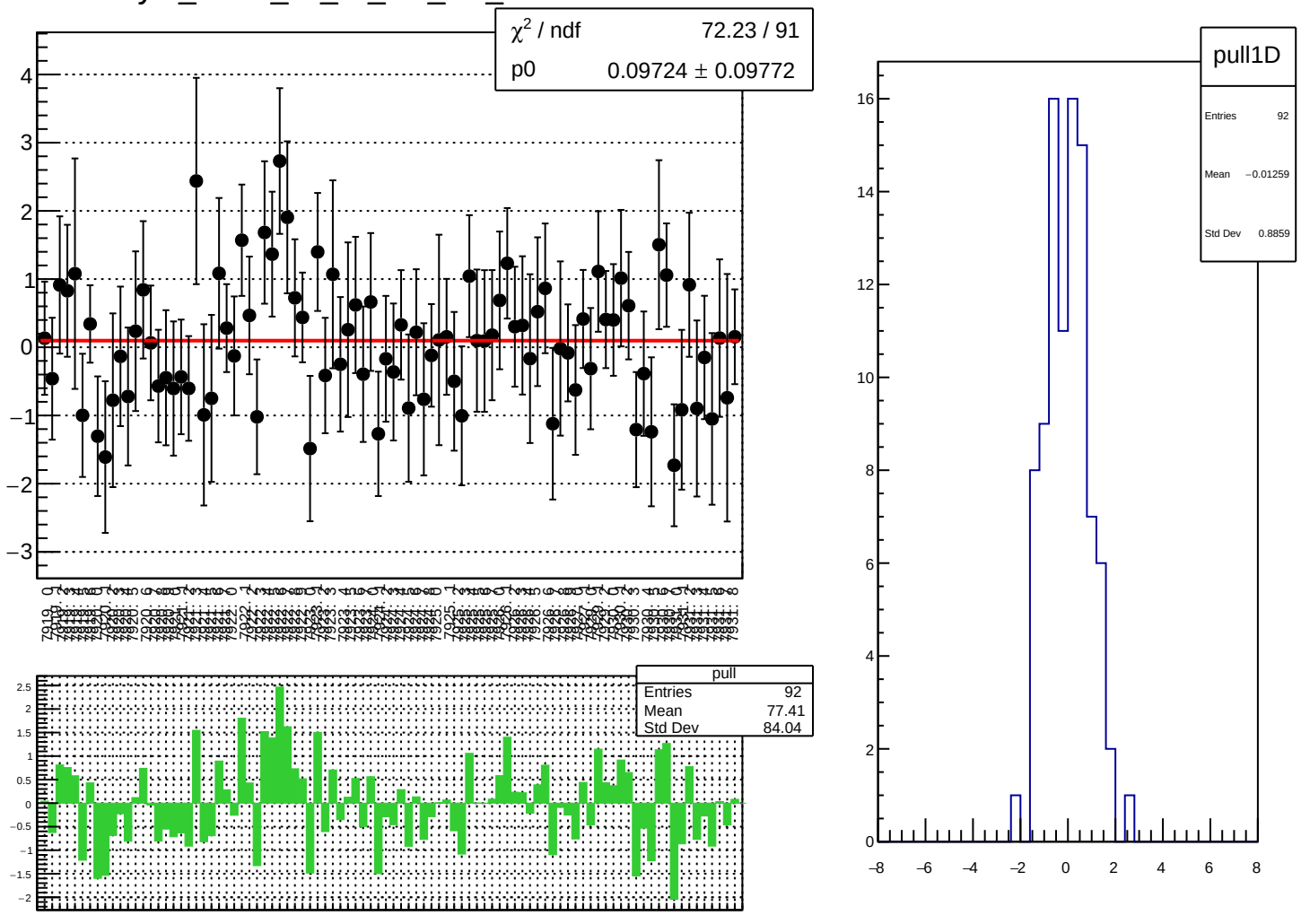

asym_sam3_mean vs run
×10^3
χ^2 / ndf 97.52 / 91
p0 6683 ± 3723
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean 1248
Std Dev 0
2
1
0
−1
−2
−3

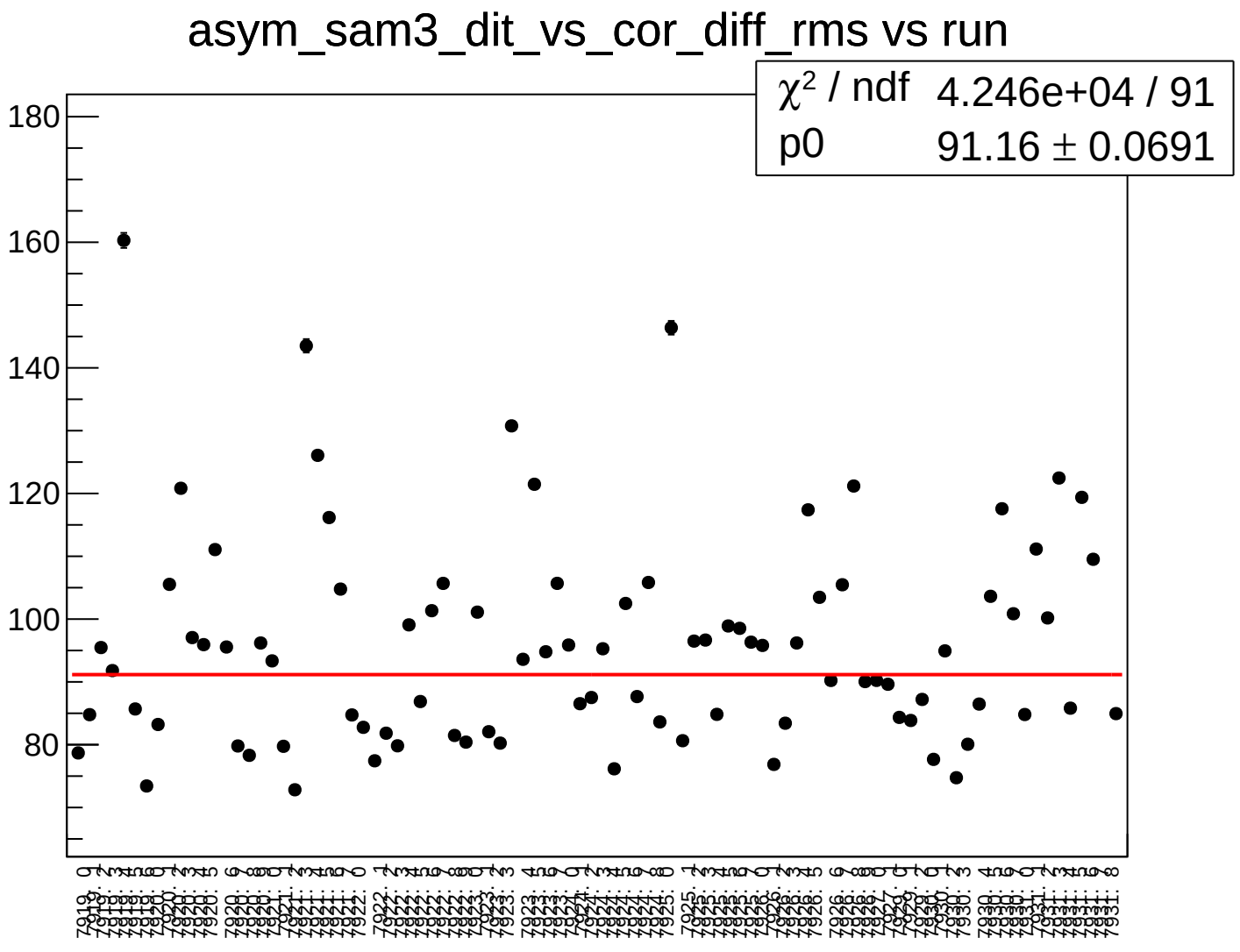

pull1D
Entries 92
Mean −0.002412
Std Dev 1.03
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

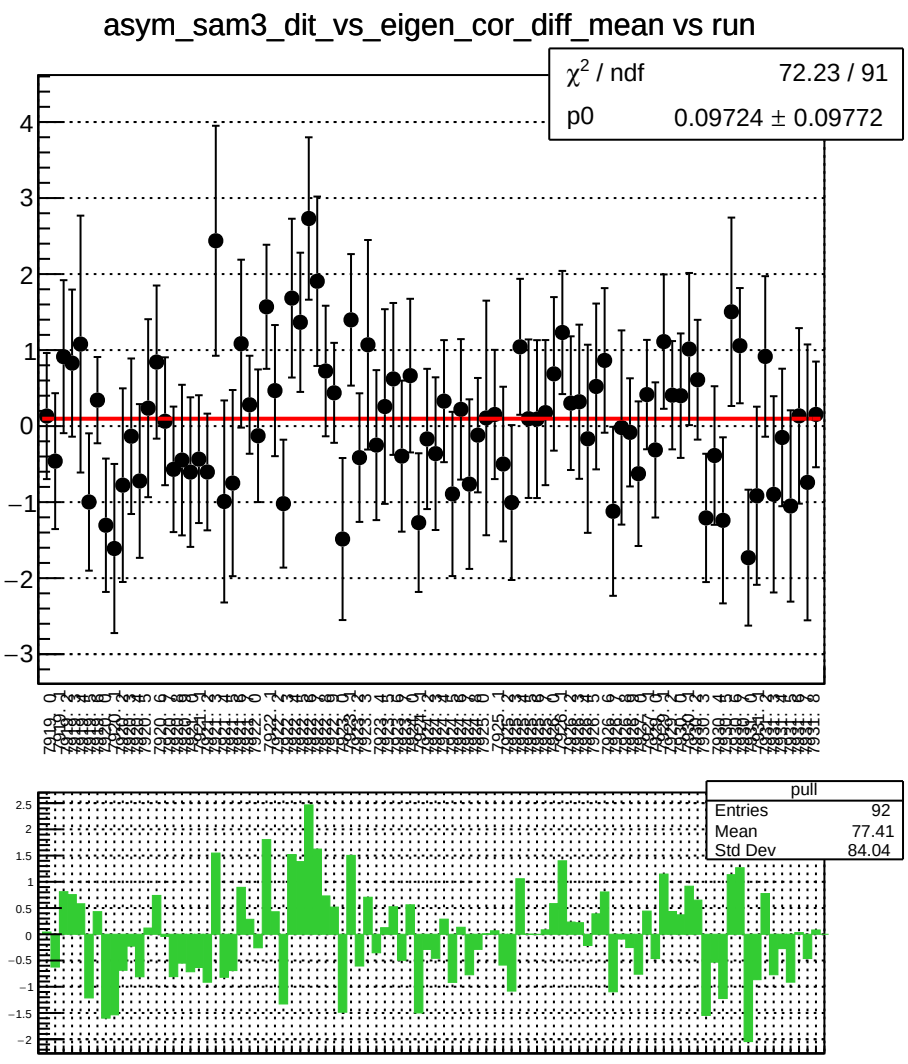

asym_sam3_rms vs run
χ² / ndf 3960 / 91
p0 3511 ± 2.632
4200
4000
3800
3600
3400
3200

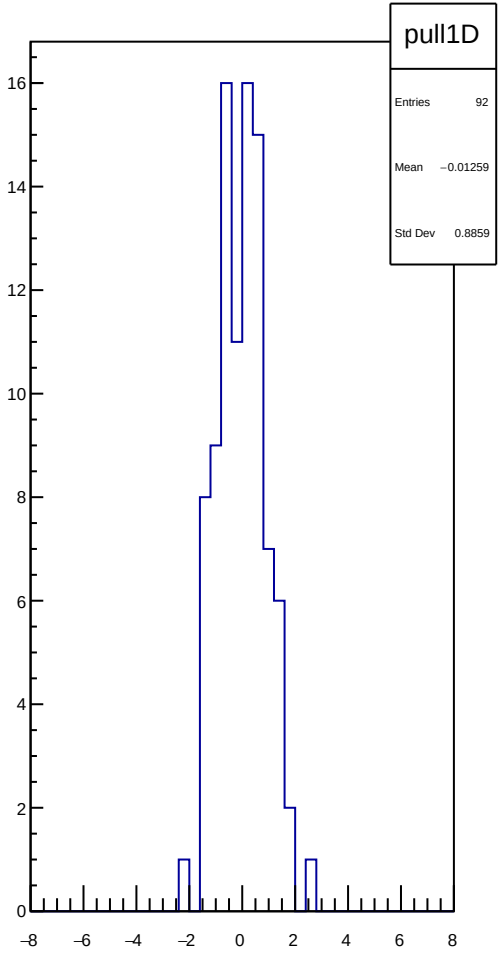

asym_sam3_reg_vs_cor_diff_mean vs run
χ² / ndf 91.03 / 91
p0 −5.233e−13 ± 6.374e−13
0.004
0.003
0.002
0.001
0
−0.001
−0.002
pull
Entries 92
Mean 18.5
Std Dev 52.24
pull1D
Entries 92
Mean −0.02818
Std Dev 0.9943

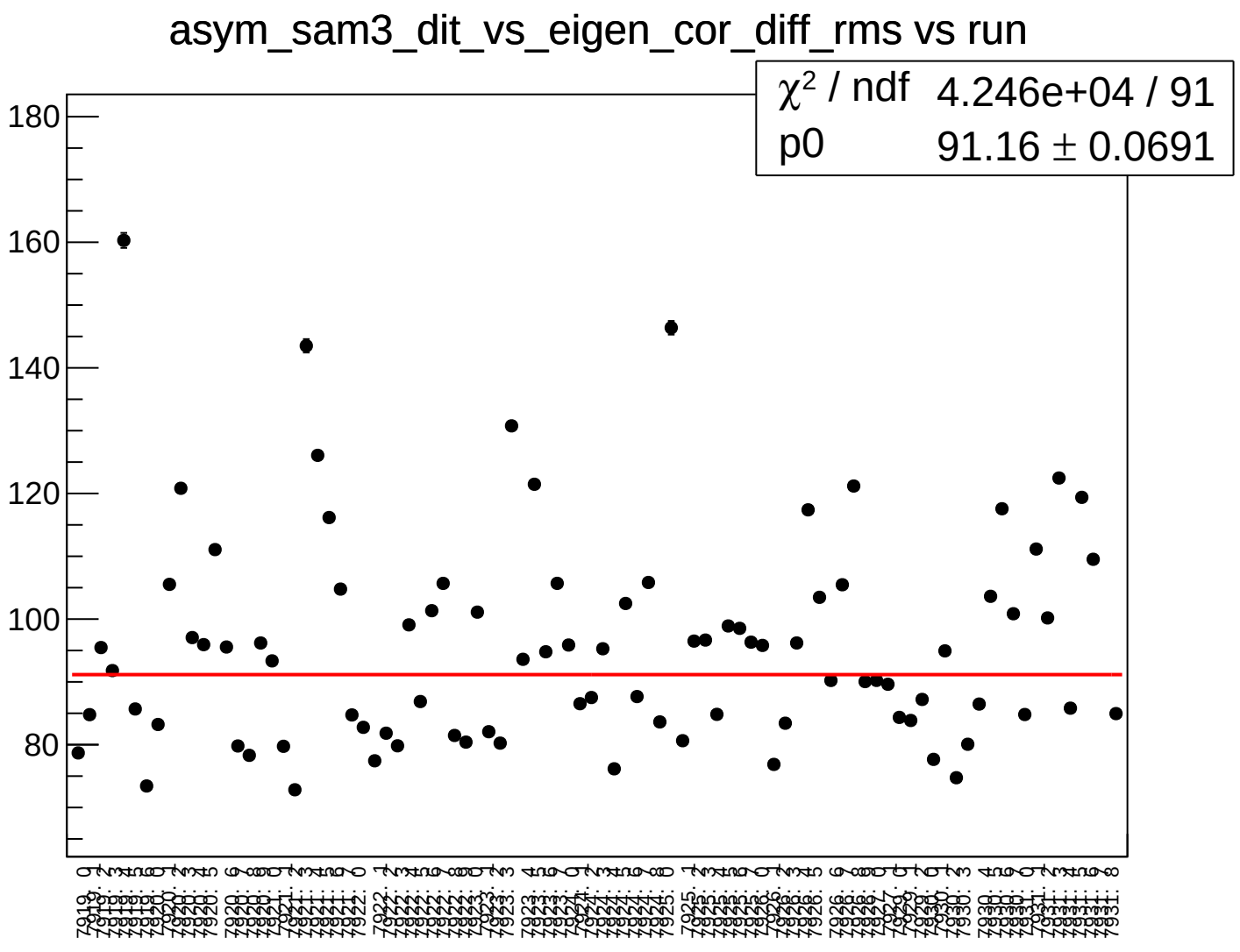

asym_sam3_reg_vs_cor_diff_rms vs run
χ² / ndf 9.349e+05 / 91
p0 4.151e−10 ± 4.507e−13
0.25
0.2
0.15
0.1
0.05
0

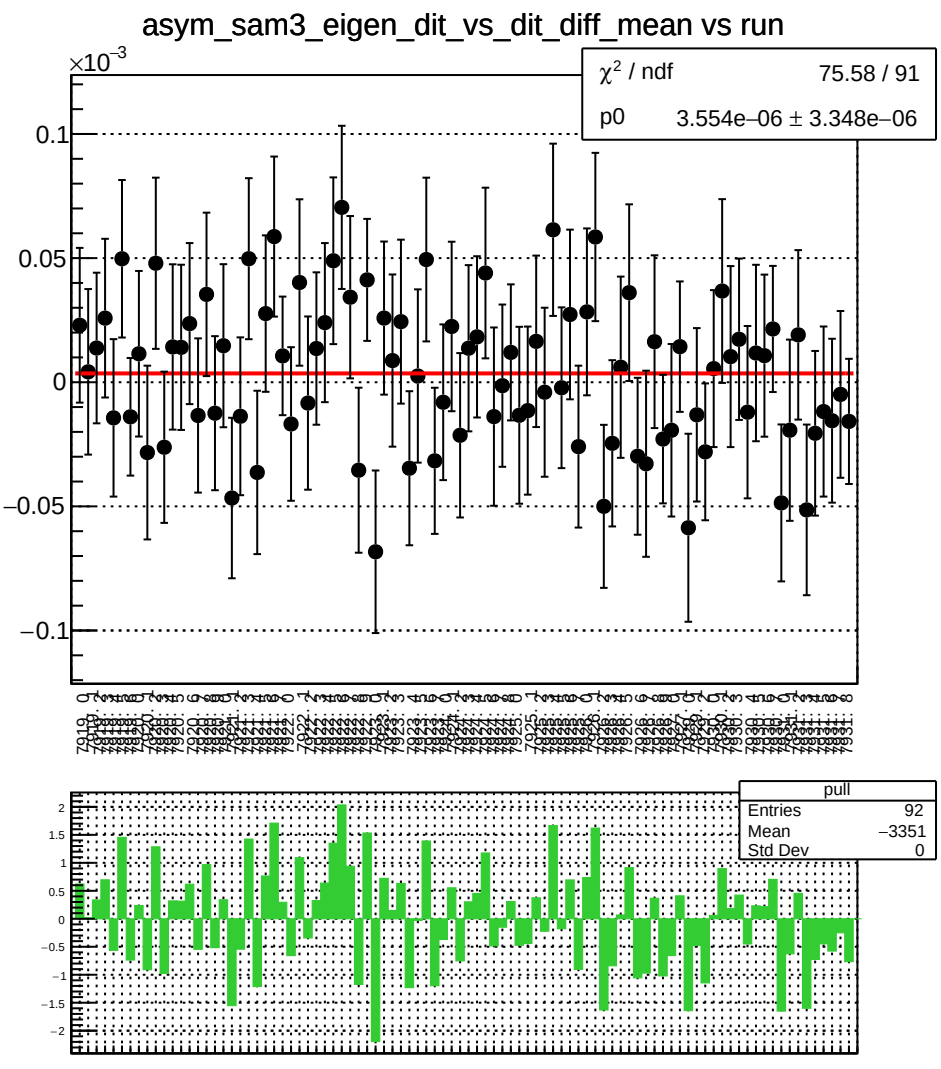

asym_sam3_dit_vs_cor_diff_mean vs run
χ² / ndf 72.23 / 91
p0 0.09724 ± 0.09772
pull
Entries 92
Mean 77.41
Std Dev 84.04
pull1D
Entries 92
Mean −0.01259
Std Dev 0.8859

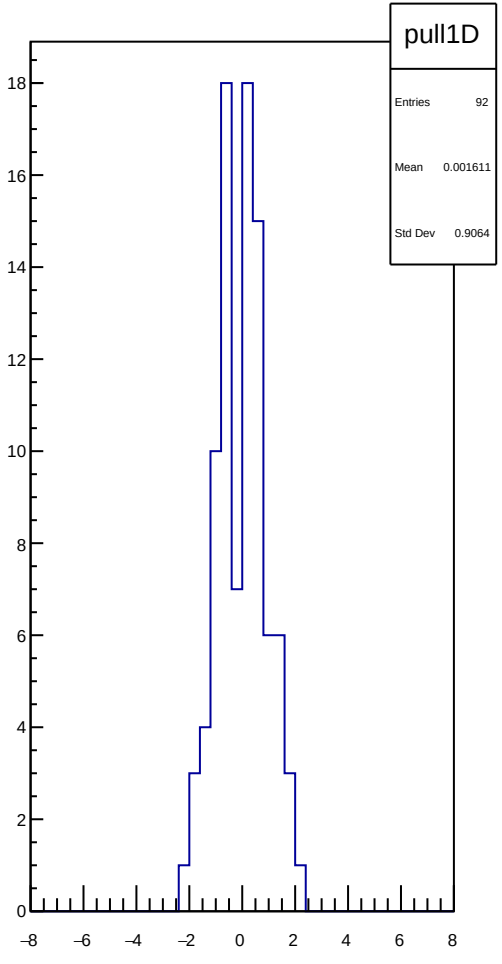

asym_sam3_dit_vs_cor_diff_rms vs run
χ² / ndf 4.246e+04 / 91
p0 91.16 ± 0.0691
180
160
140
120
100
80

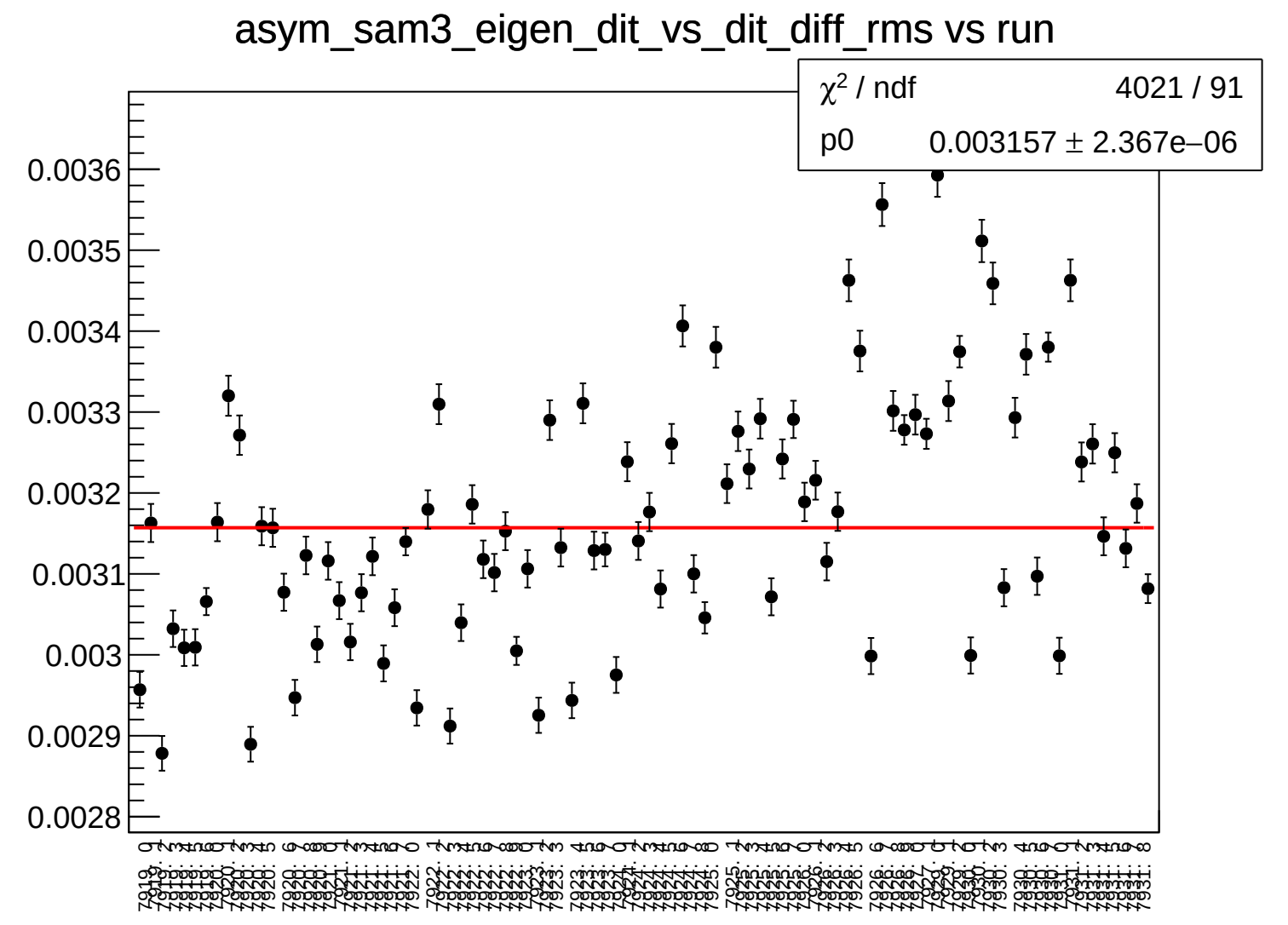

asym_sam3_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.23 / 91
p0 0.09724 ± 0.09772
pull
Entries 92
Mean 77.41
Std Dev 84.04

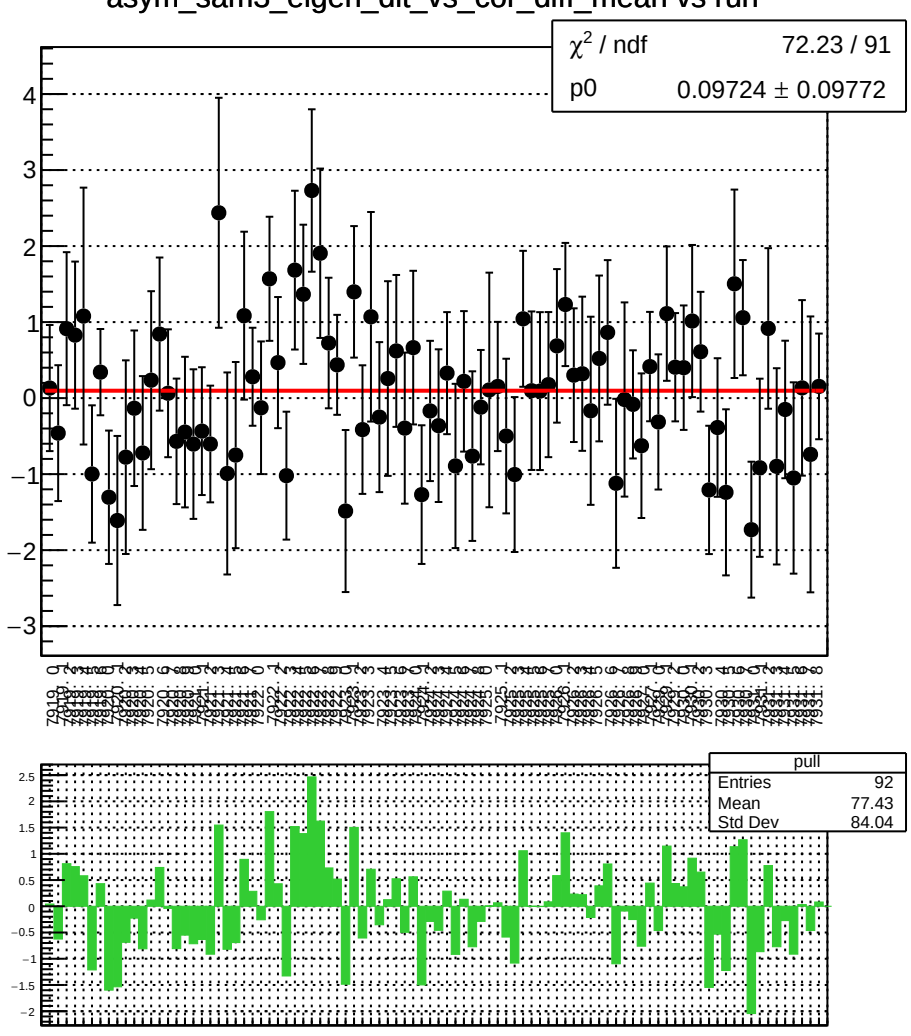

pull1D
Entries 92
Mean −0.01259
Std Dev 0.8859

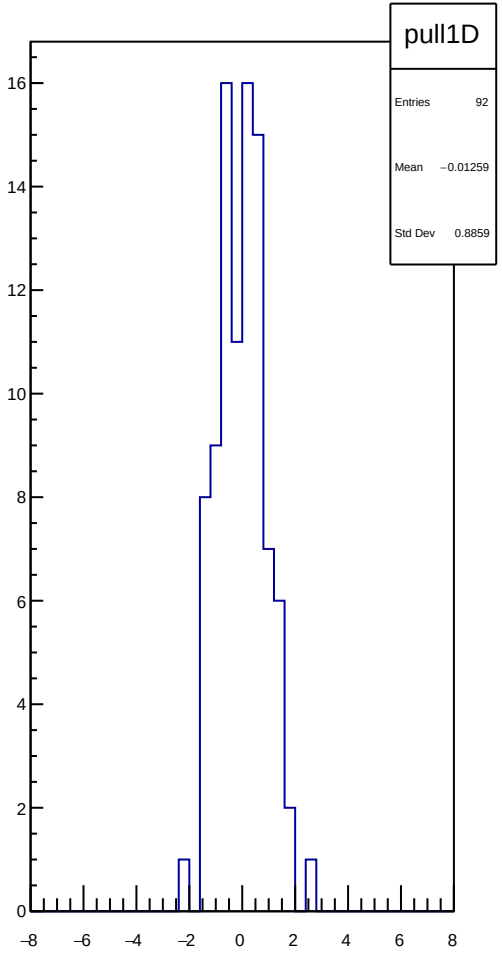

asym_sam3_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.246e+04 / 91
p0 91.16 ± 0.0691
180
160
140
120
100
80

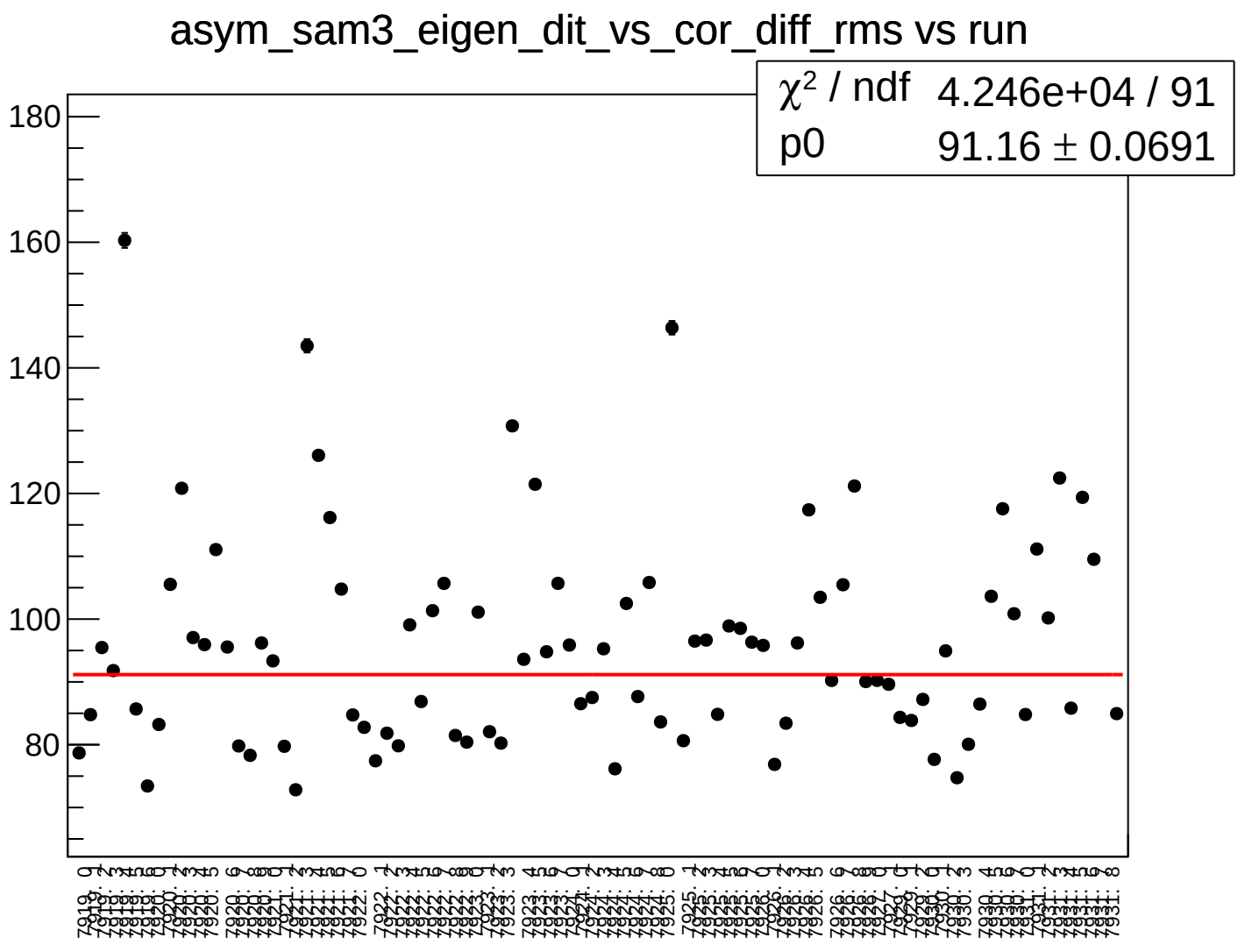

asym_sam3_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 75.58 / 91
p0 3.554e−06 ± 3.348e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 92
Mean −3351
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

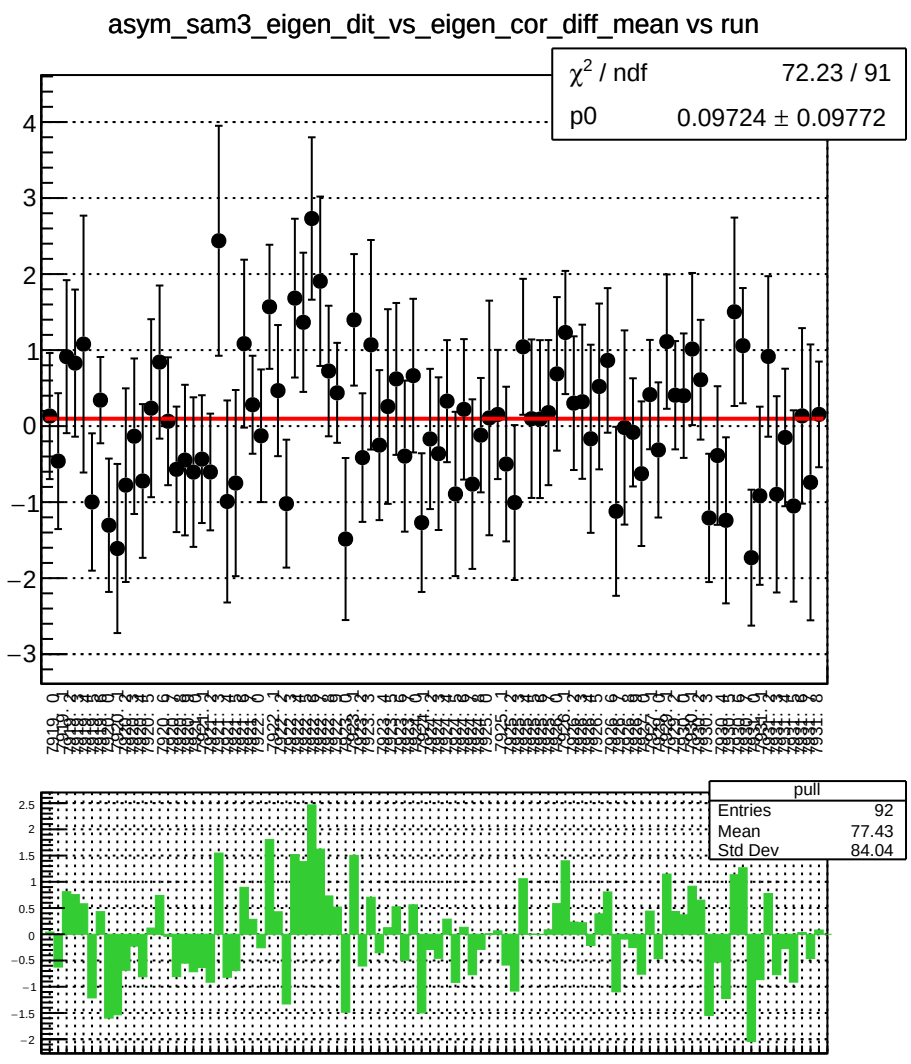

pull1D
Entries 92
Mean 0.001611
Std Dev 0.9064
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

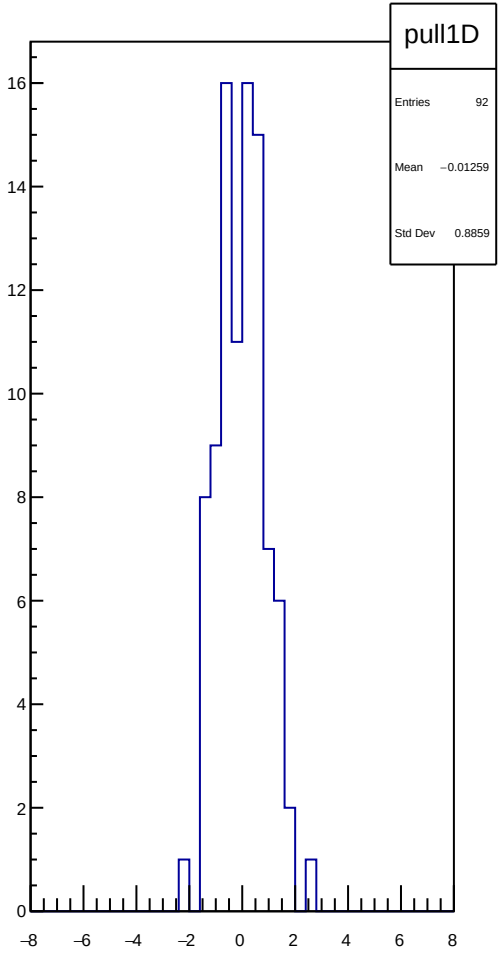

asym_sam3_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4021 / 91
p0 0.003157 ± 2.367e−06
0.0036
0.0035
0.0034
0.0033
0.0032
0.0031
0.003
0.0029
0.0028

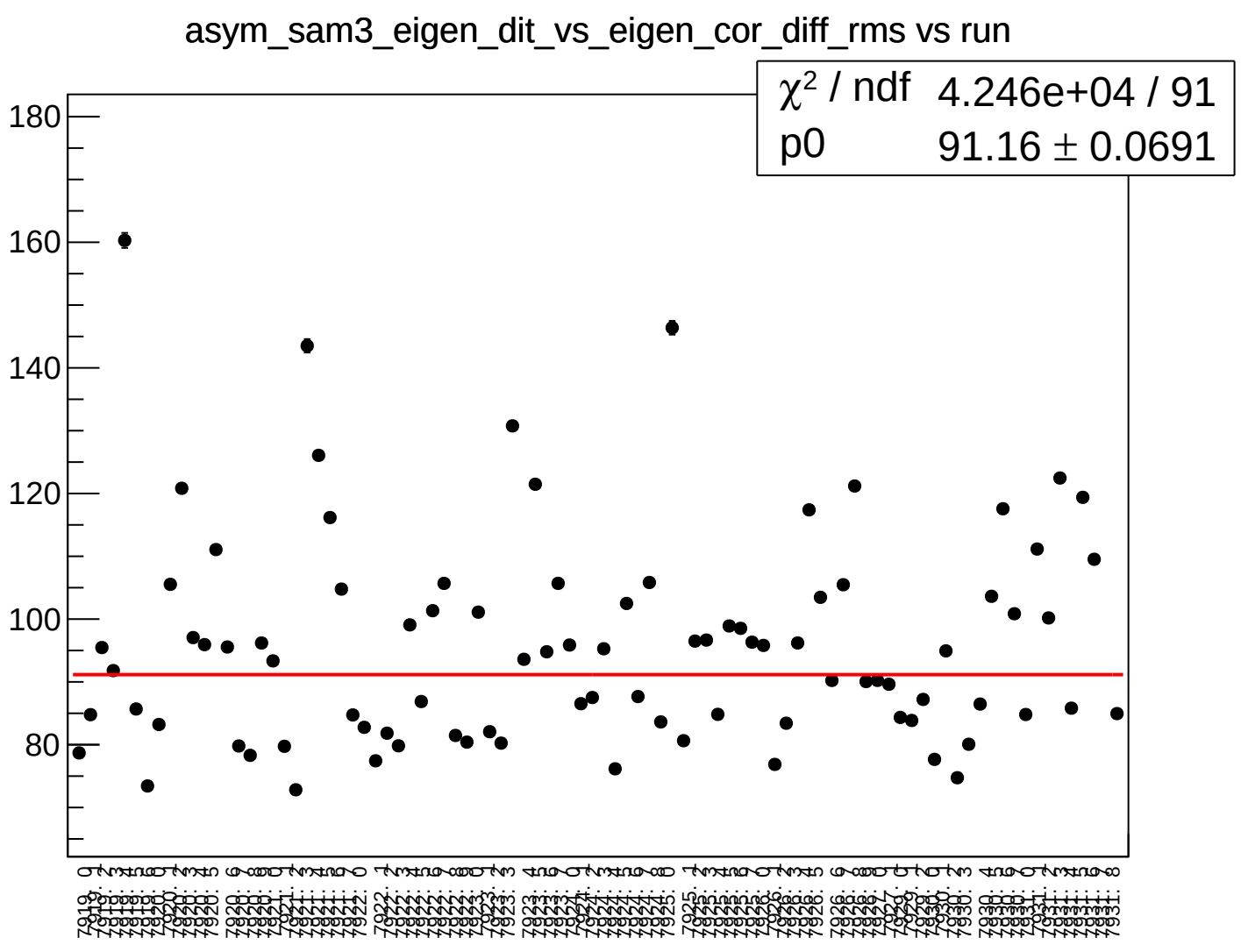

asym_sam3_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 72.23 / 91
p0 0.09724 ± 0.09772
pull
Entries 92
Mean 77.43
Std Dev 84.04

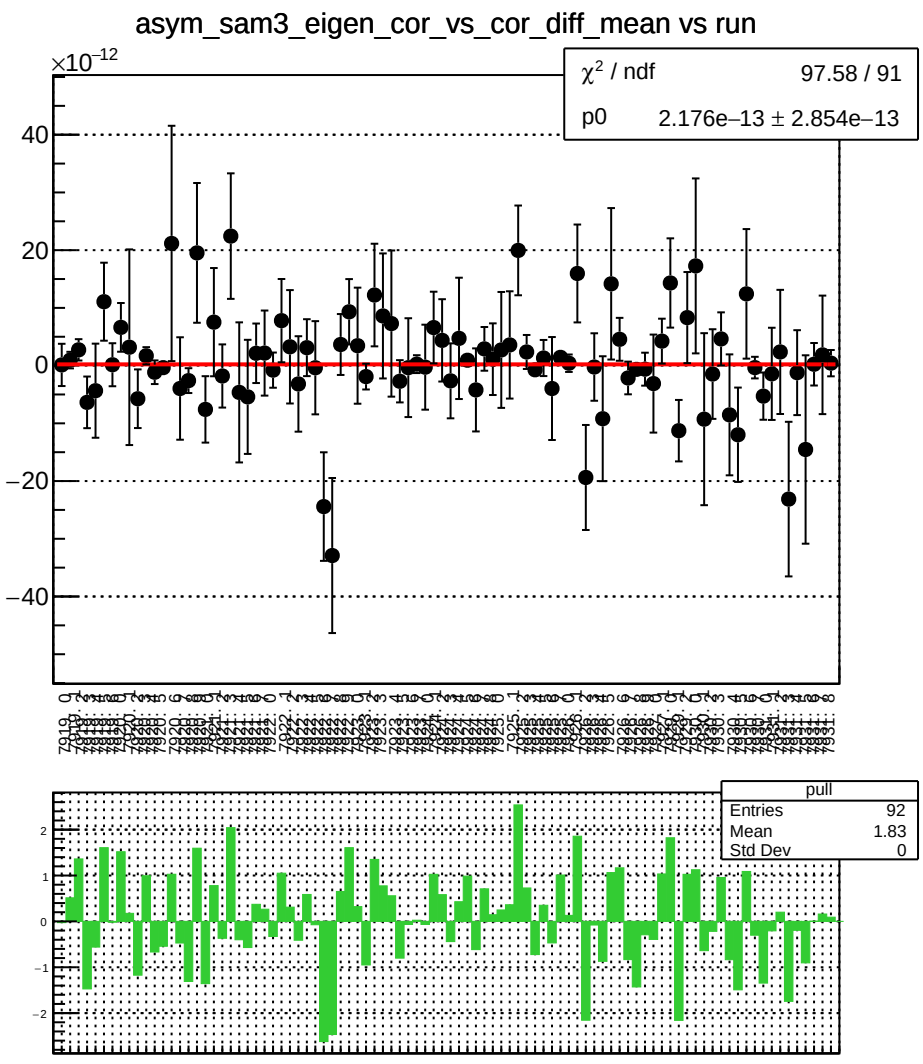

pull1D
Entries 92
Mean −0.01259
Std Dev 0.8859

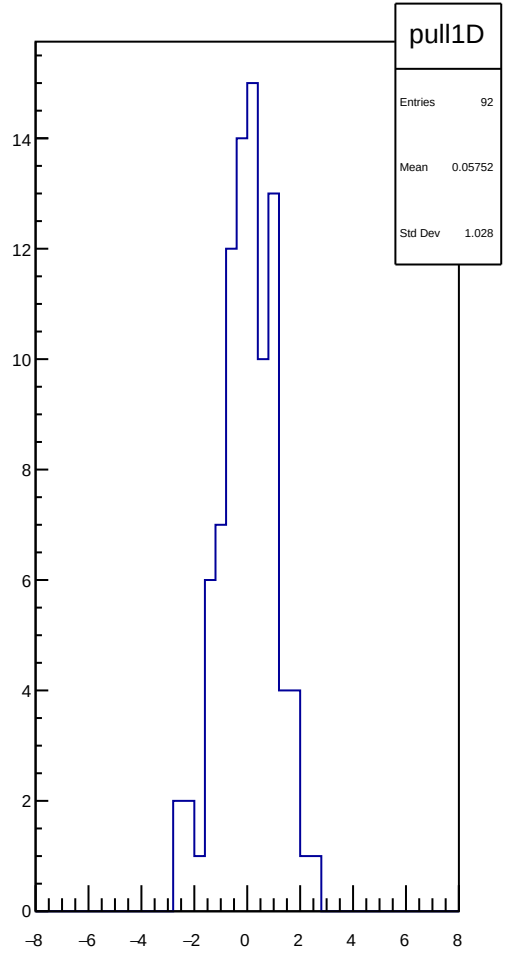

asym_sam3_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.246e+04 / 91
p0 91.16 ± 0.0691
180
160
140
120
100
80

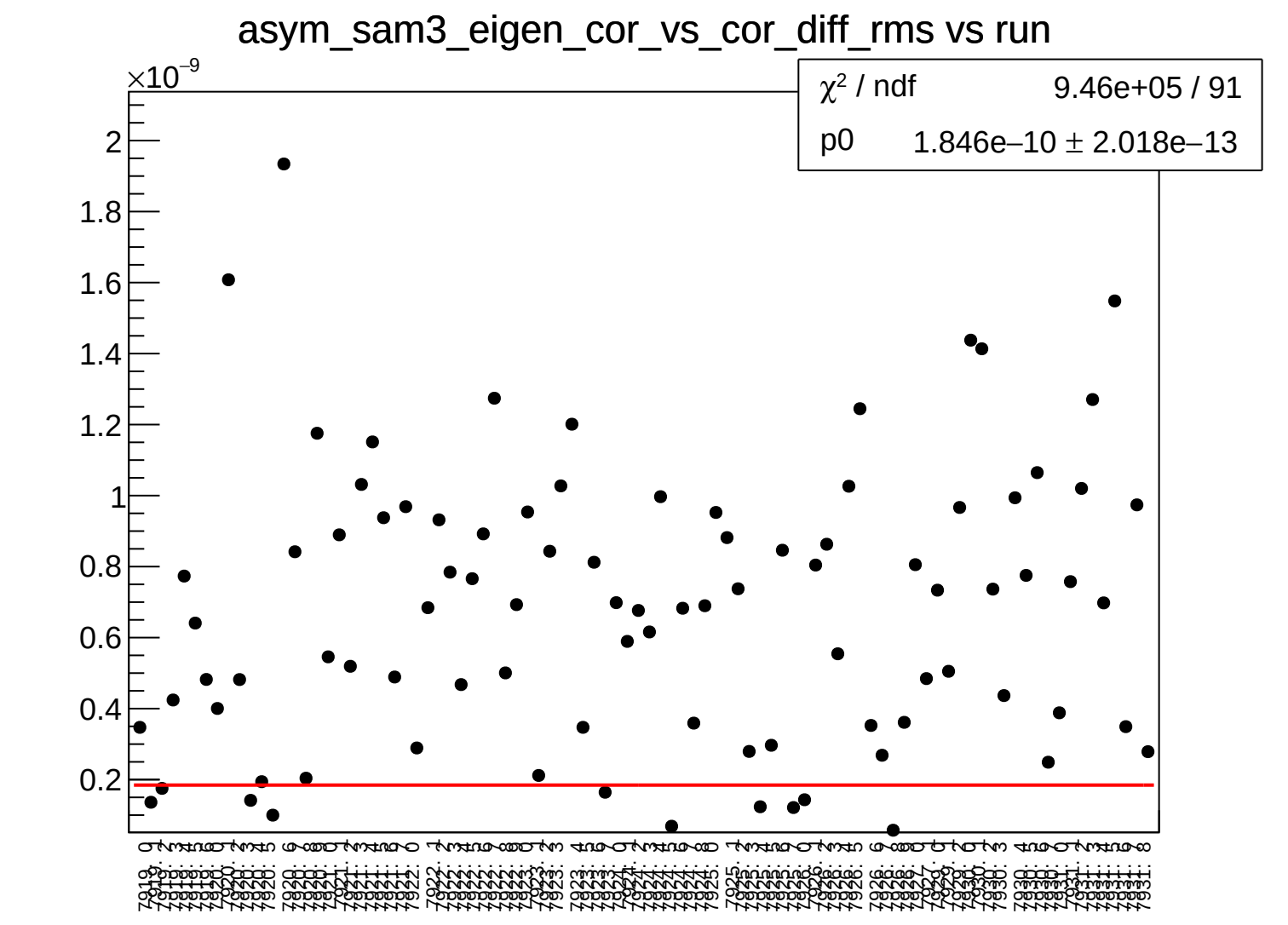

asym_sam3_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.23 / 91
p0 0.09724 ± 0.09772
pull
Entries 92
Mean 77.43
Std Dev 84.04

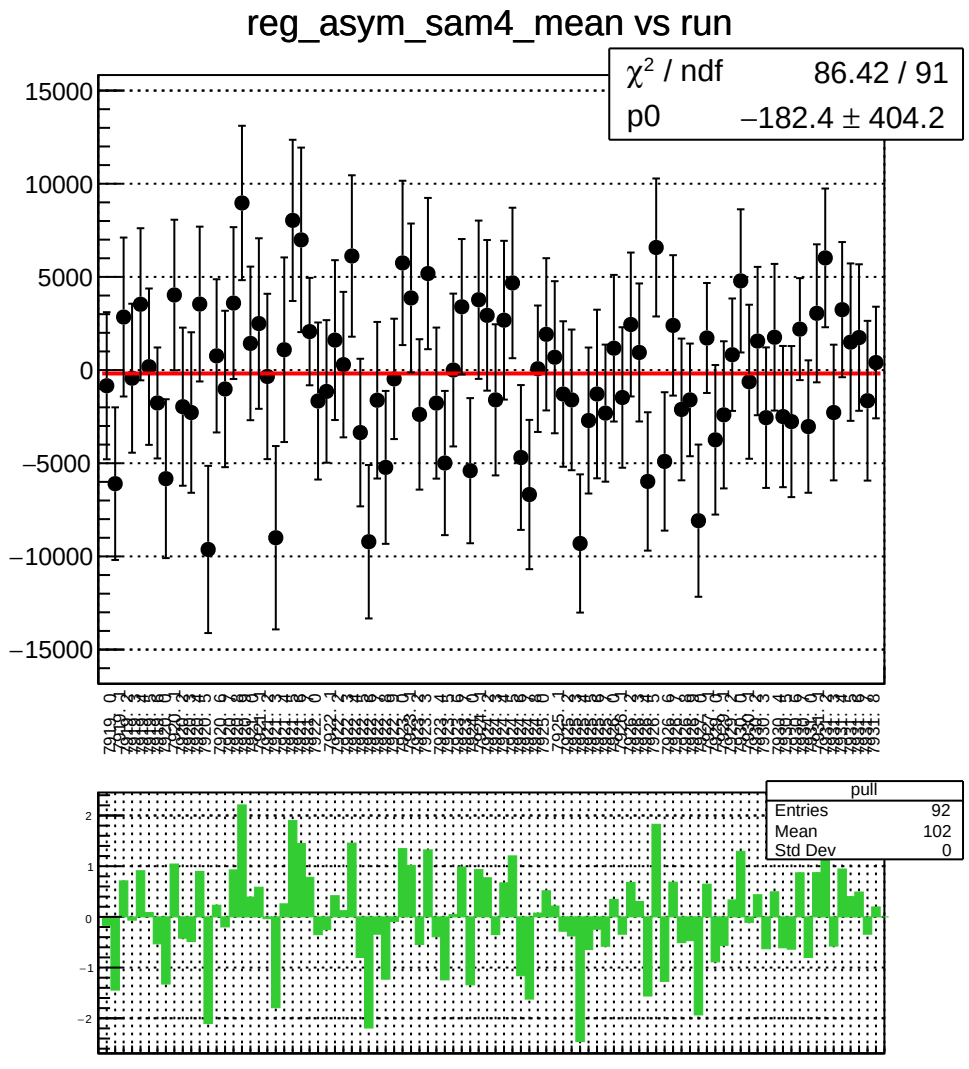

pull1D
Entries 92
Mean −0.01259
Std Dev 0.8859

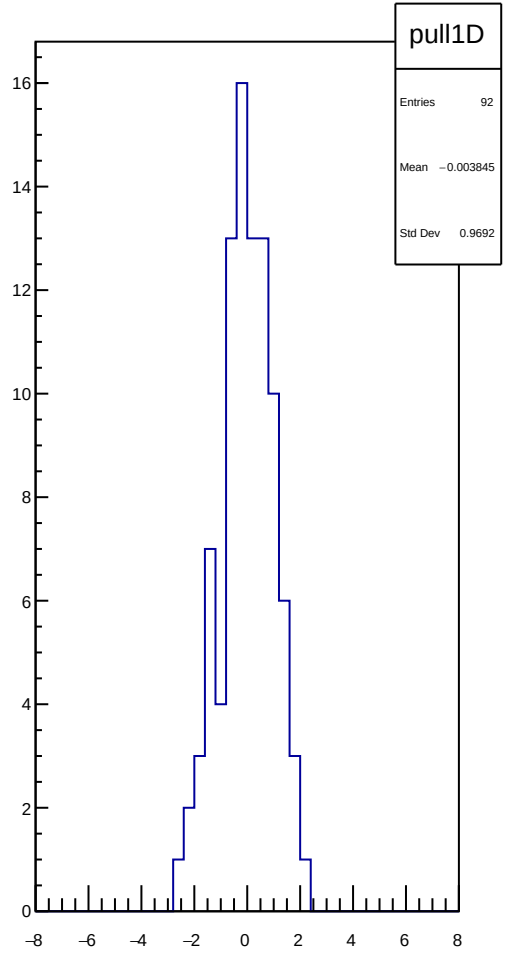

asym_sam3_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.246e+04 / 91
p0 91.16 ± 0.0691
180
160
140
120
100
80

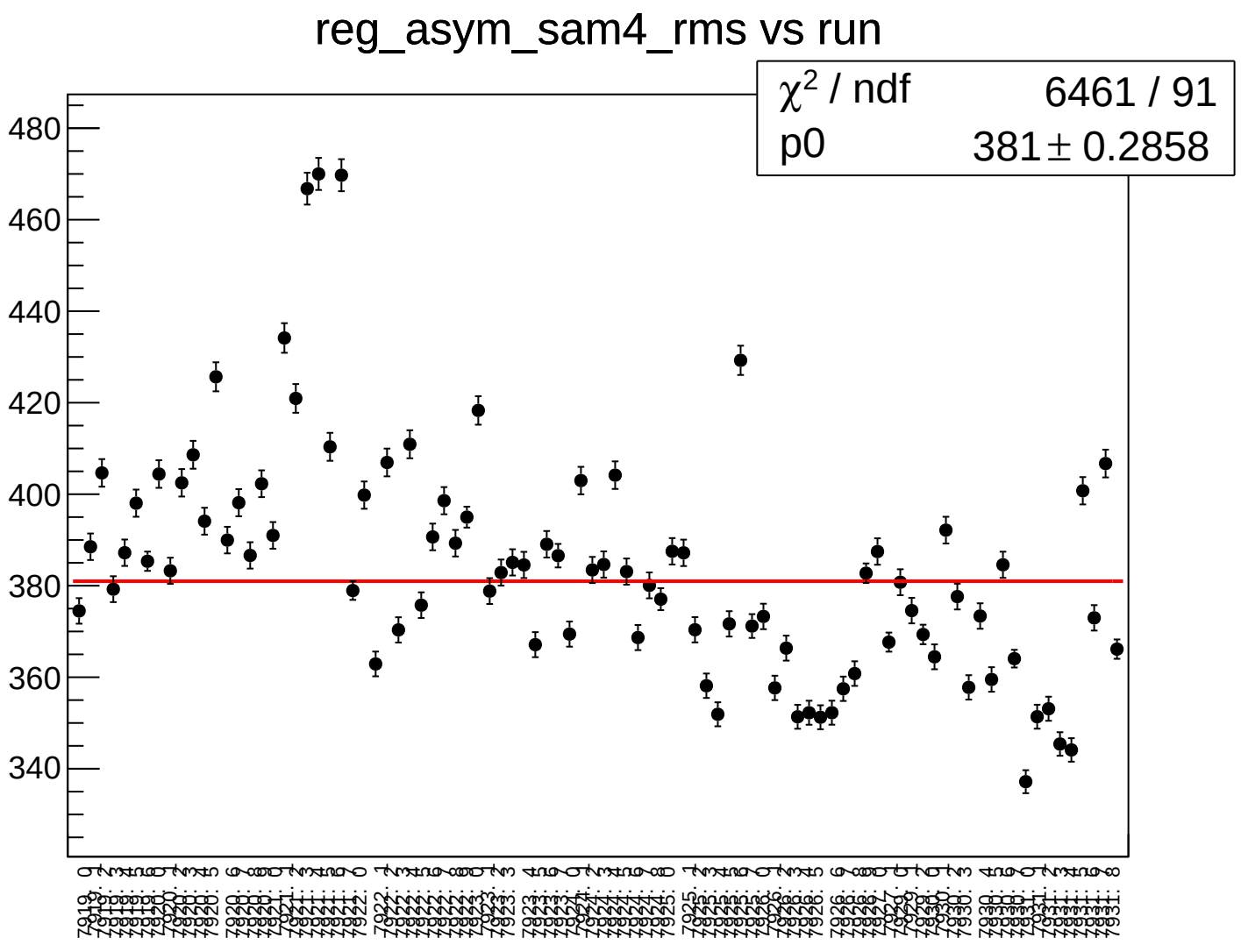

asym_sam3_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97.58 / 91
p0 2.176e−13 ± 2.854e−13
40
20
0
−20
−40
pull
Entries 92
Mean 1.83
Std Dev 0
2
1
0
−1
−2

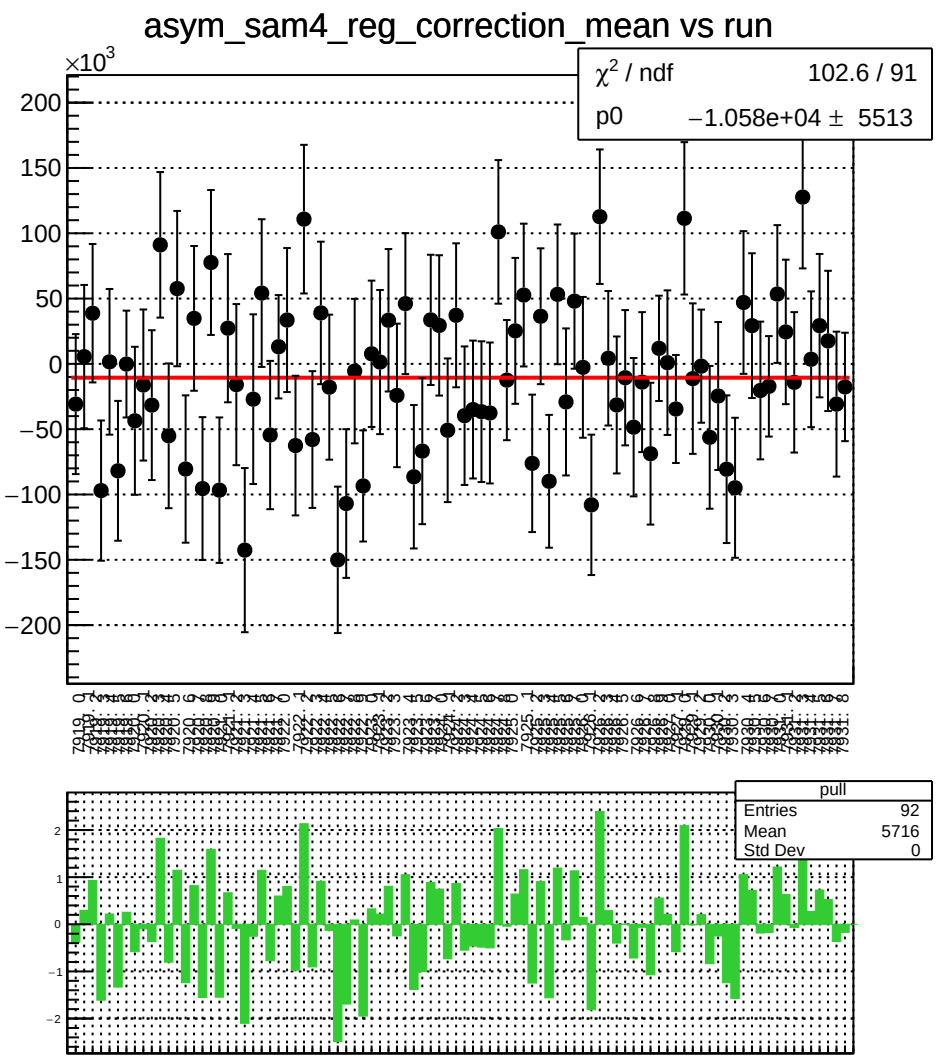

pull1D
Entries 92
Mean 0.05752
Std Dev 1.028
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

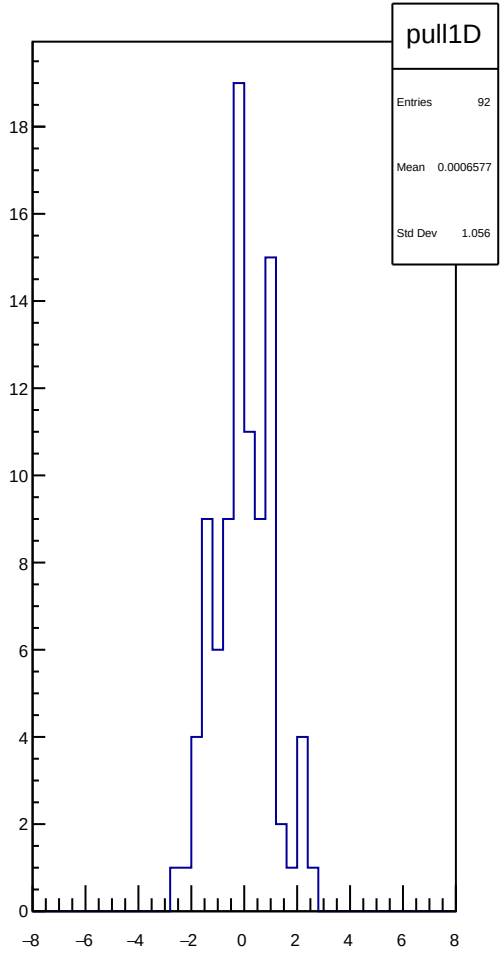

asym_sam3_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.46e+05 / 91
p0 1.846e−10 ± 2.018e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

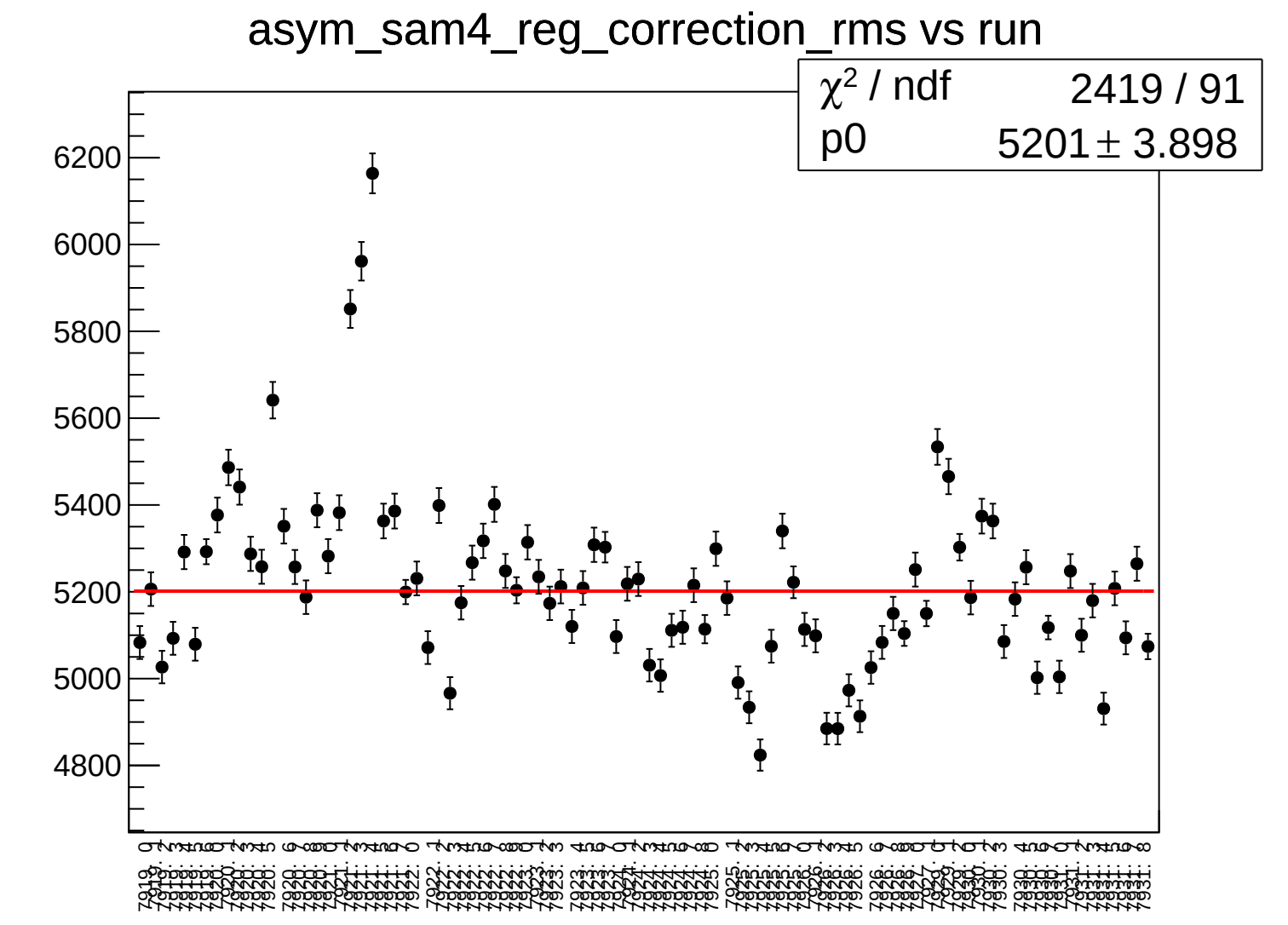

reg_asym_sam4_mean vs run
χ² / ndf 86.42 / 91
p0 −182.4 ± 404.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean 102
Std Dev 0
2
1
0
−1
−2

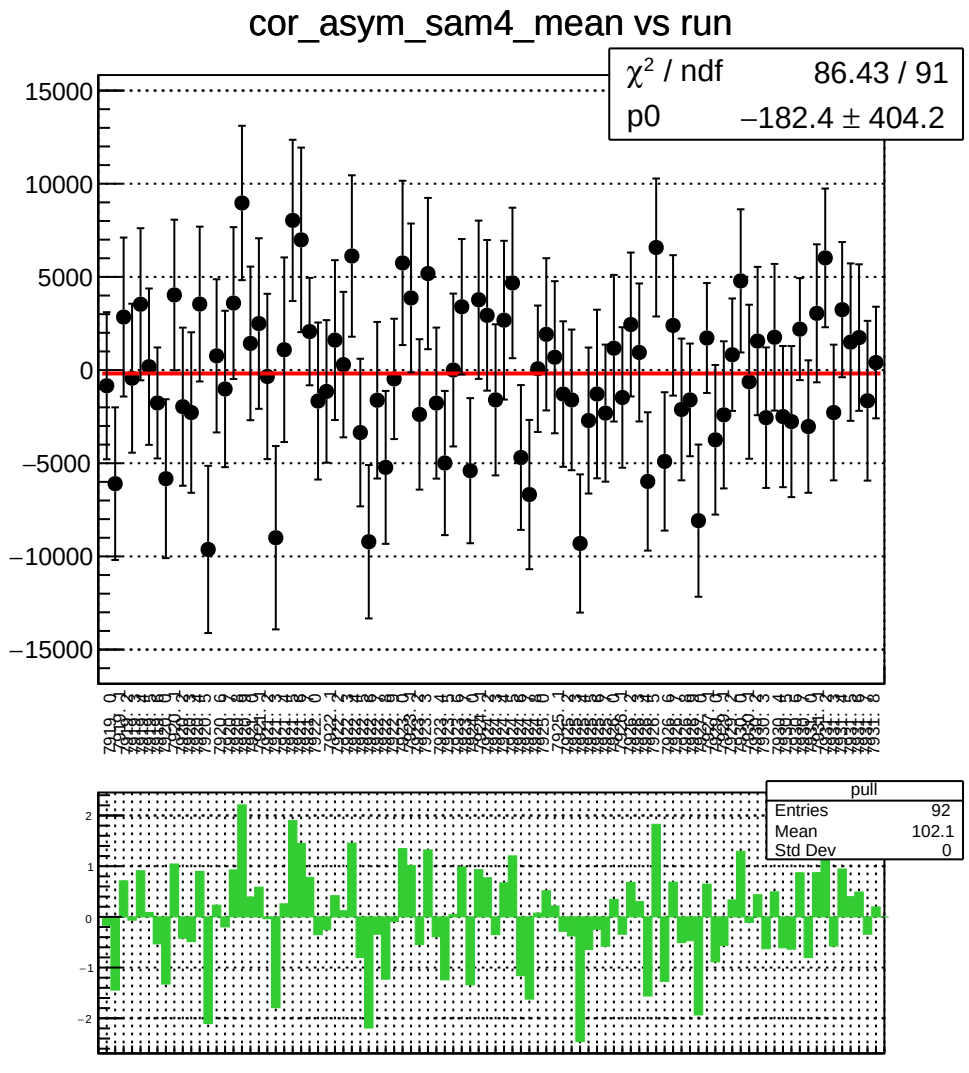

pull1D
Entries 92
Mean −0.003845
Std Dev 0.9692
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

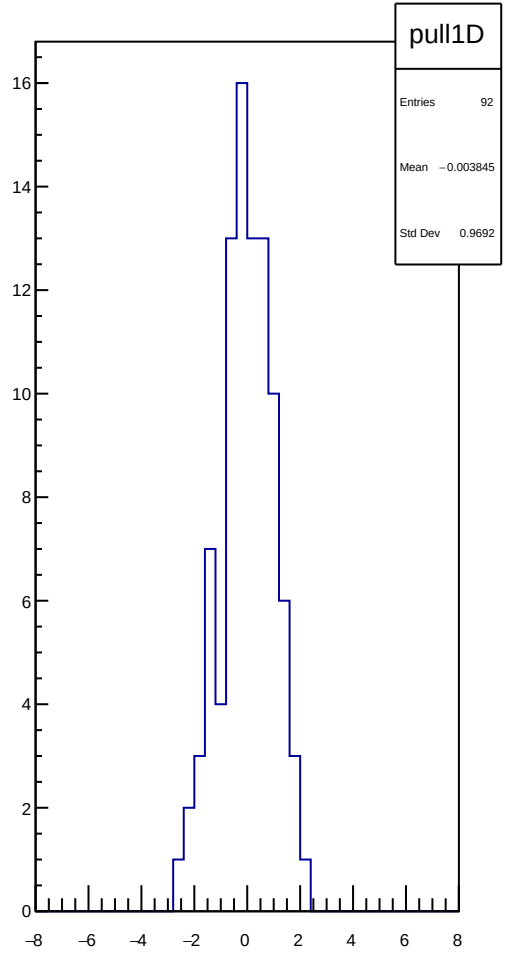

reg_asym_sam4_rms vs run
χ² / ndf 6461 / 91
p0 381 ± 0.2858
480
460
440
420
400
380
360
340

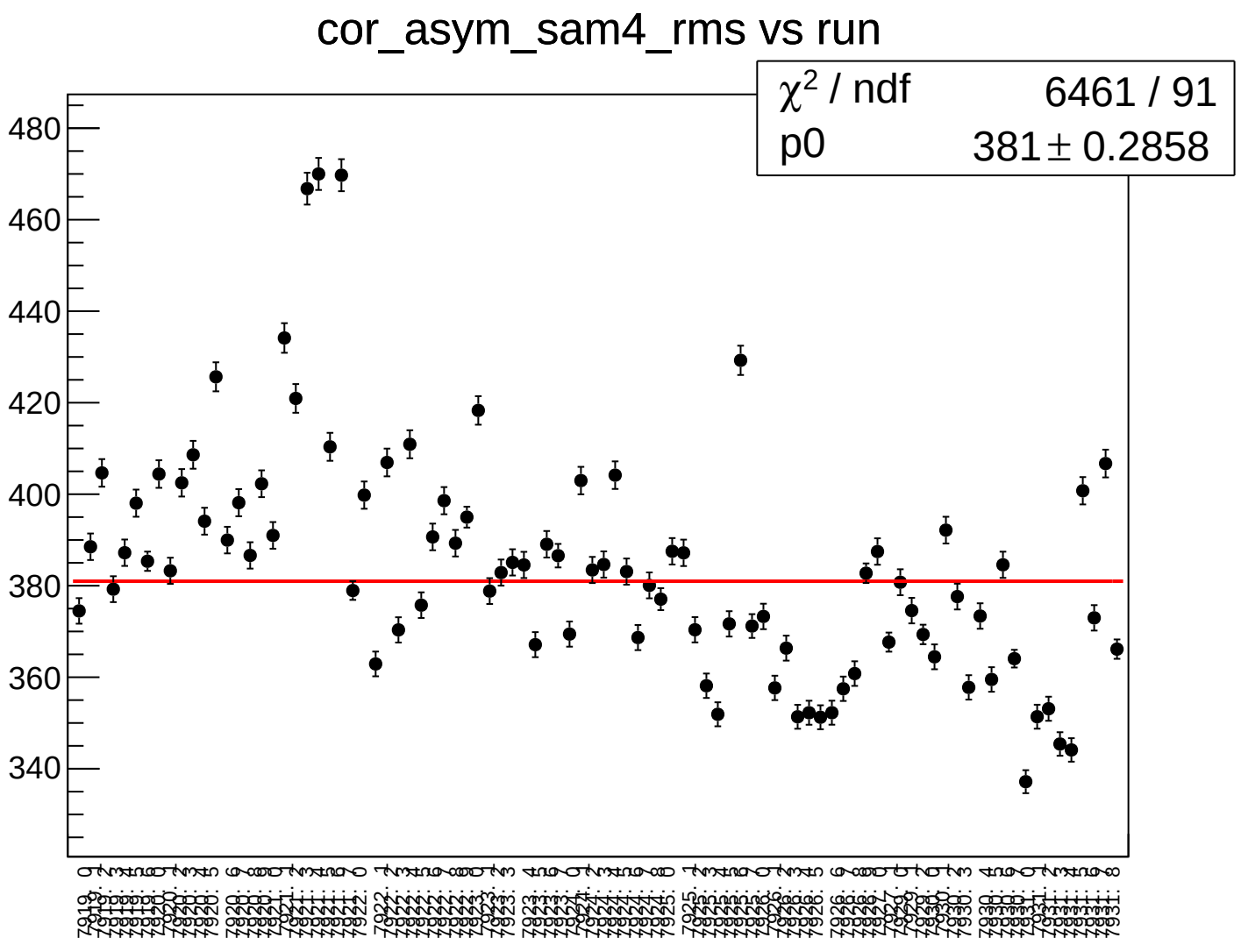

asym_sam4_reg_correction_mean vs run
×10^3
χ² / ndf 102.6 / 91
p0 −1.058e+04 ± 5513
pull
Entries 92
Mean 5716
Std Dev 0

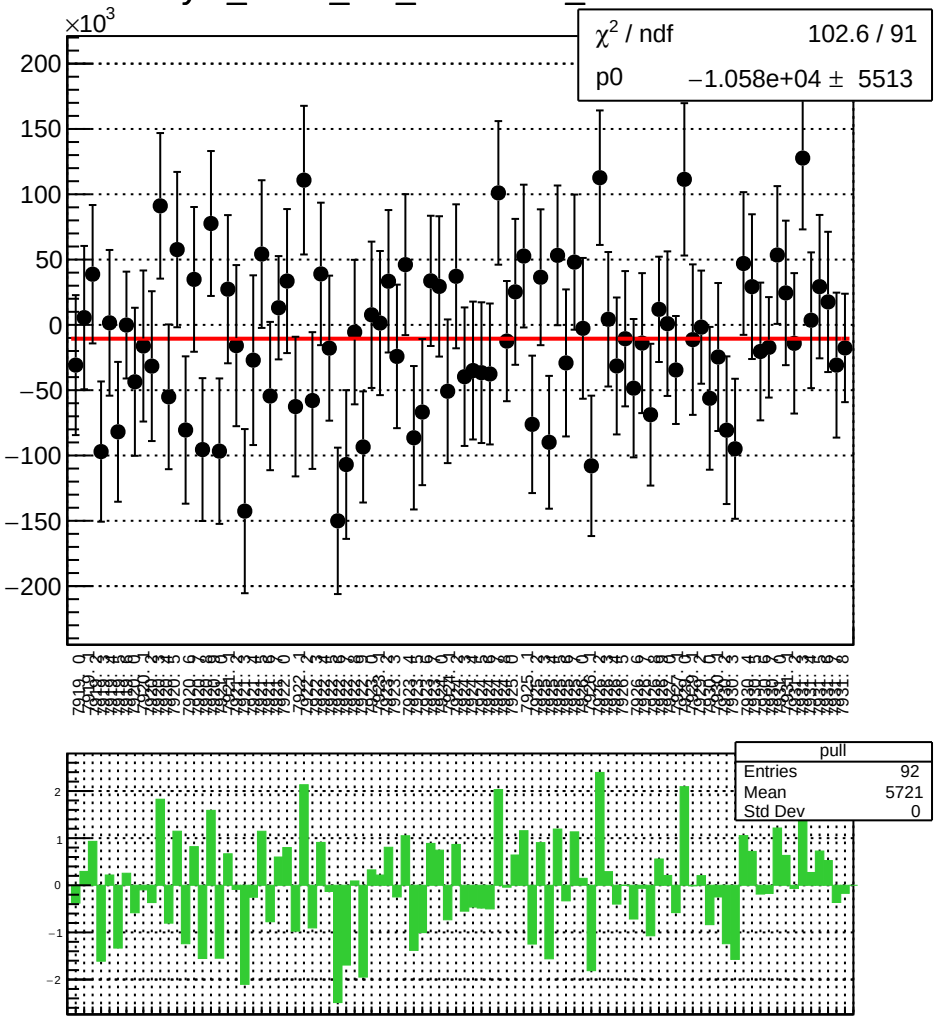

pull1D
Entries 92
Mean 0.0006577
Std Dev 1.056

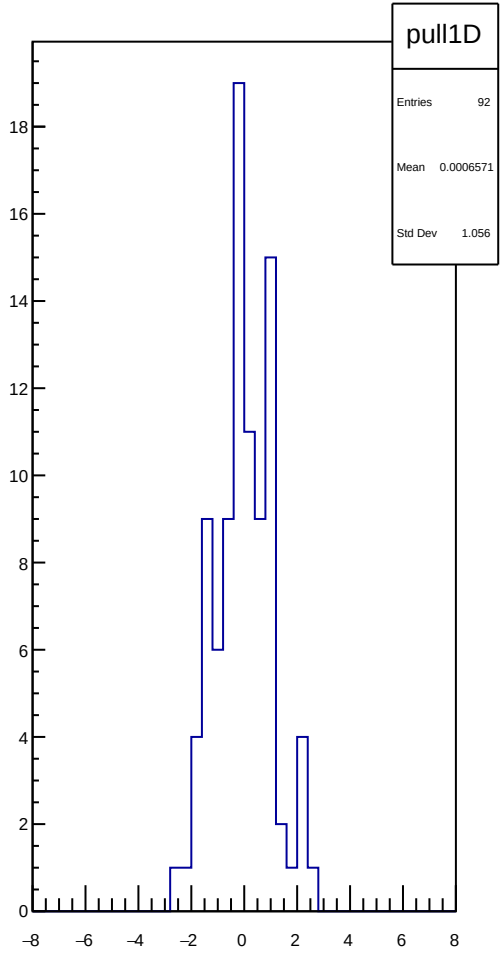

asym_sam4_reg_correction_rms vs run
χ² / ndf 2419 / 91
p0 5201 ± 3.898
6200
6000
5800
5600
5400
5200
5000
4800

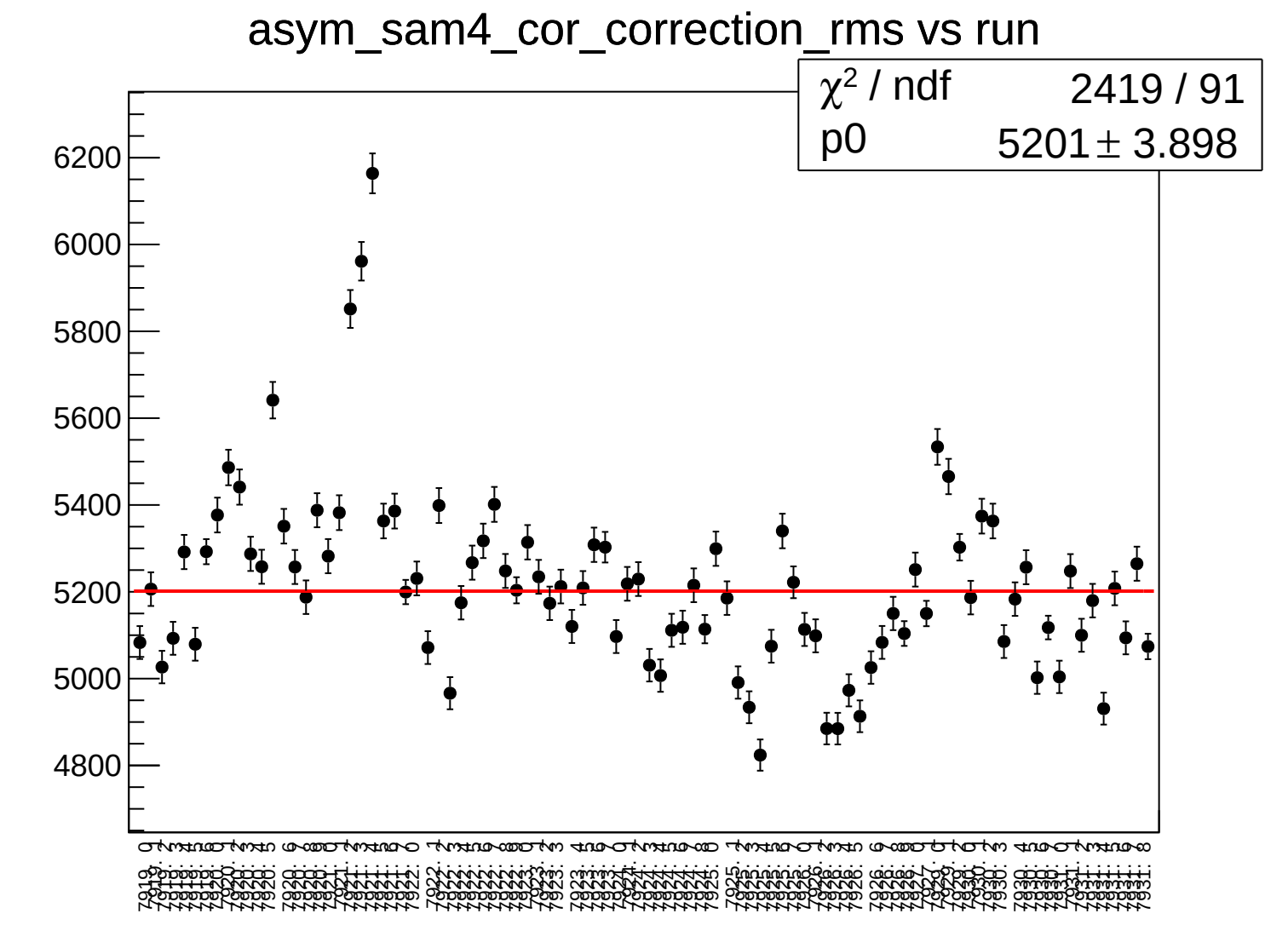

cor_asym_sam4_mean vs run
χ² / ndf 86.43 / 91
p0 −182.4 ± 404.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean 102.1
Std Dev 0
2
1
0
−1
−2

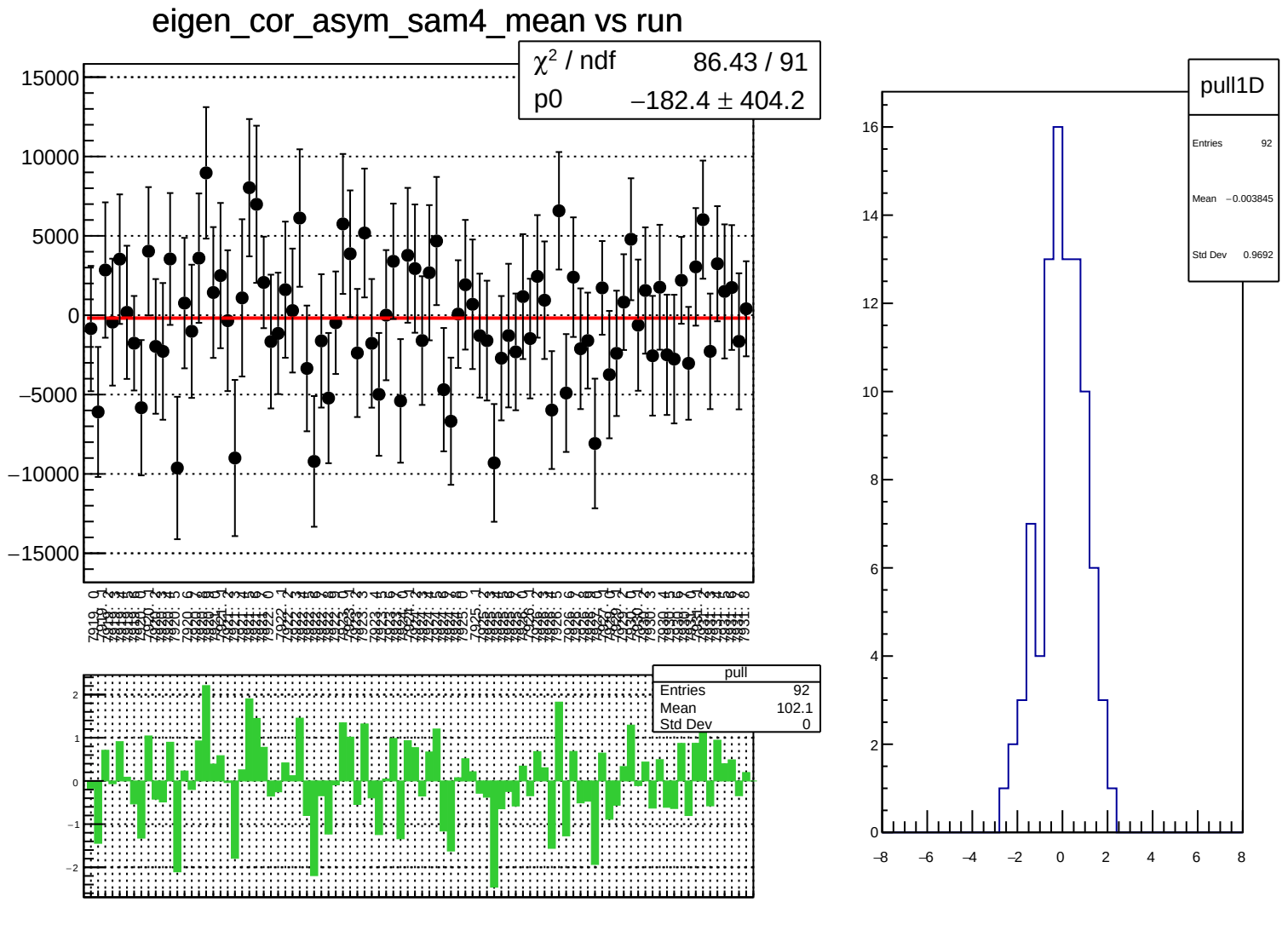

pull1D
Entries 92
Mean −0.003845
Std Dev 0.9692
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

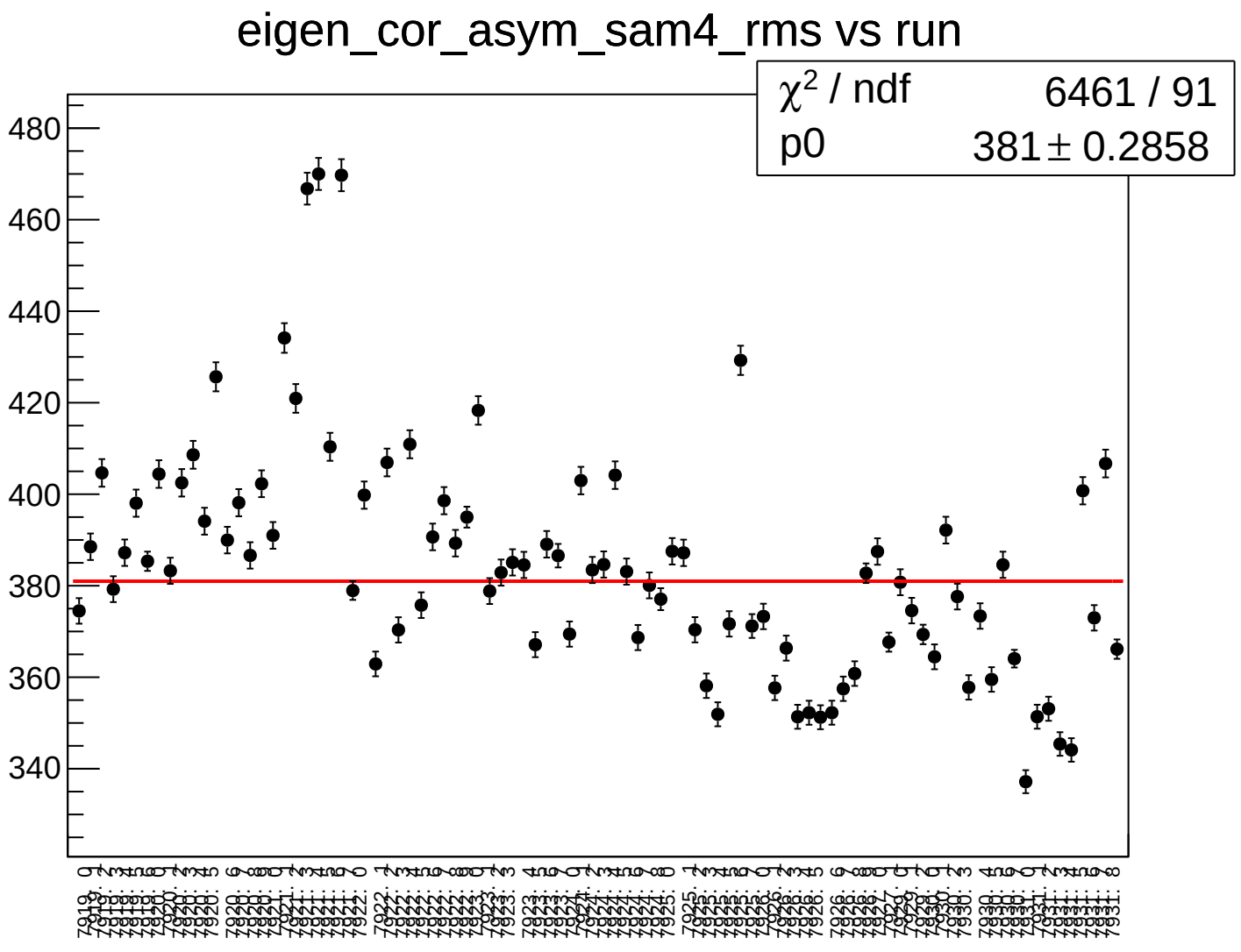

cor_asym_sam4_rms vs run
χ² / ndf 6461 / 91
p0 381 ± 0.2858
480
460
440
420
400
380
360
340

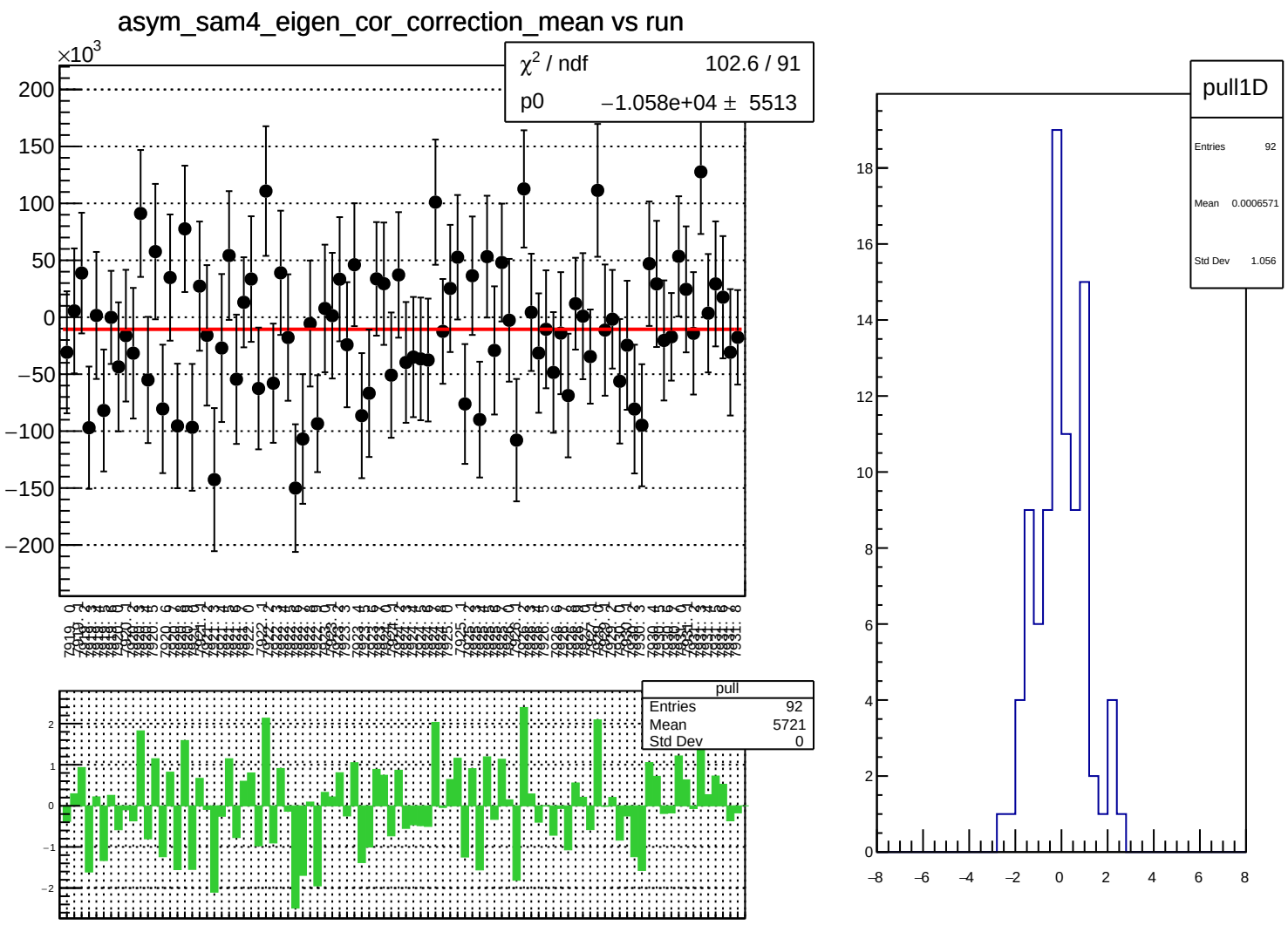

asym_sam4_cor_correction_mean vs run
×10^3
χ² / ndf 102.6 / 91
p0 −1.058e+04 ± 5513
pull
Entries 92
Mean 5721
Std Dev 0

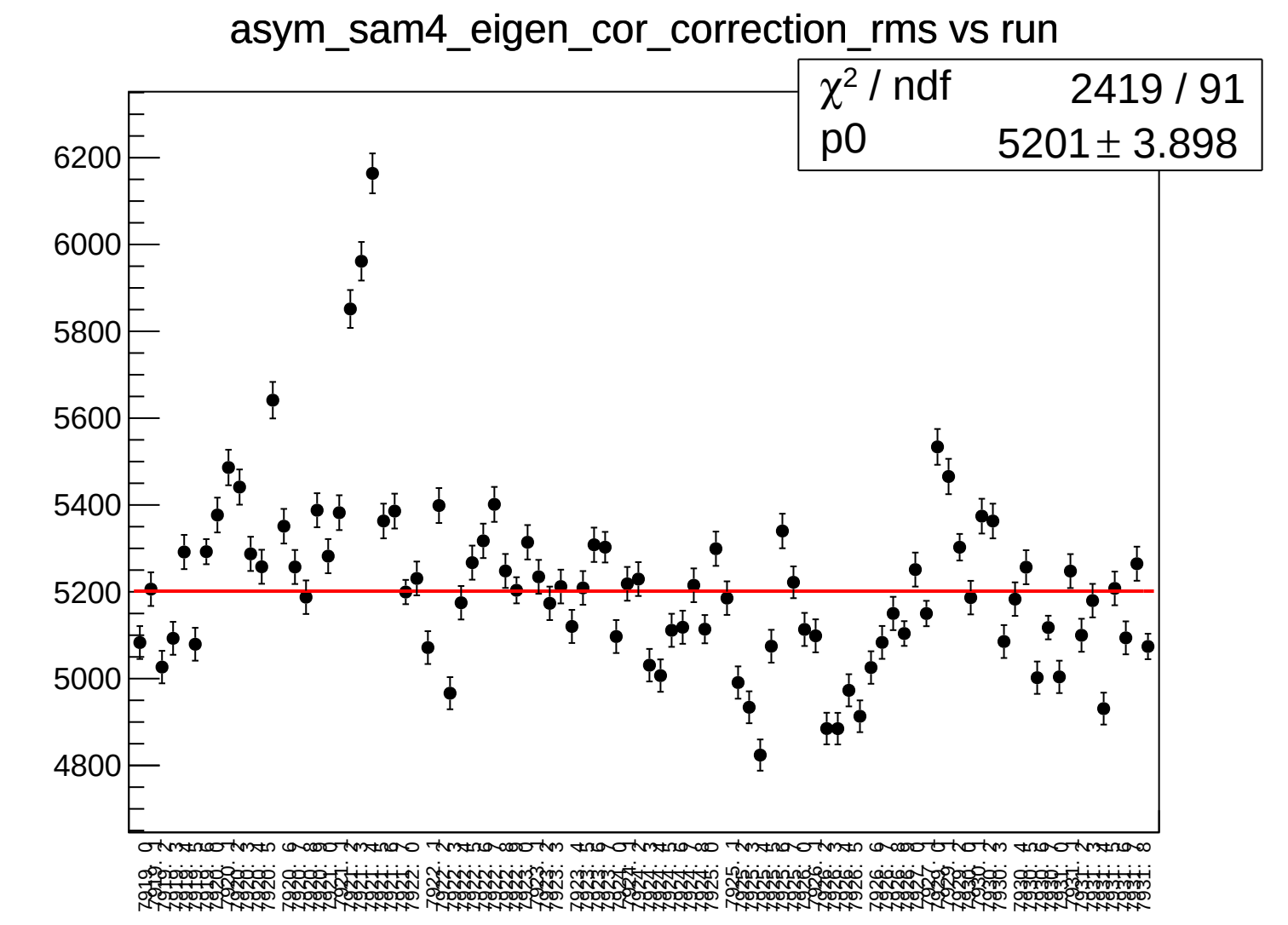

pull1D
Entries 92
Mean 0.0006571
Std Dev 1.056

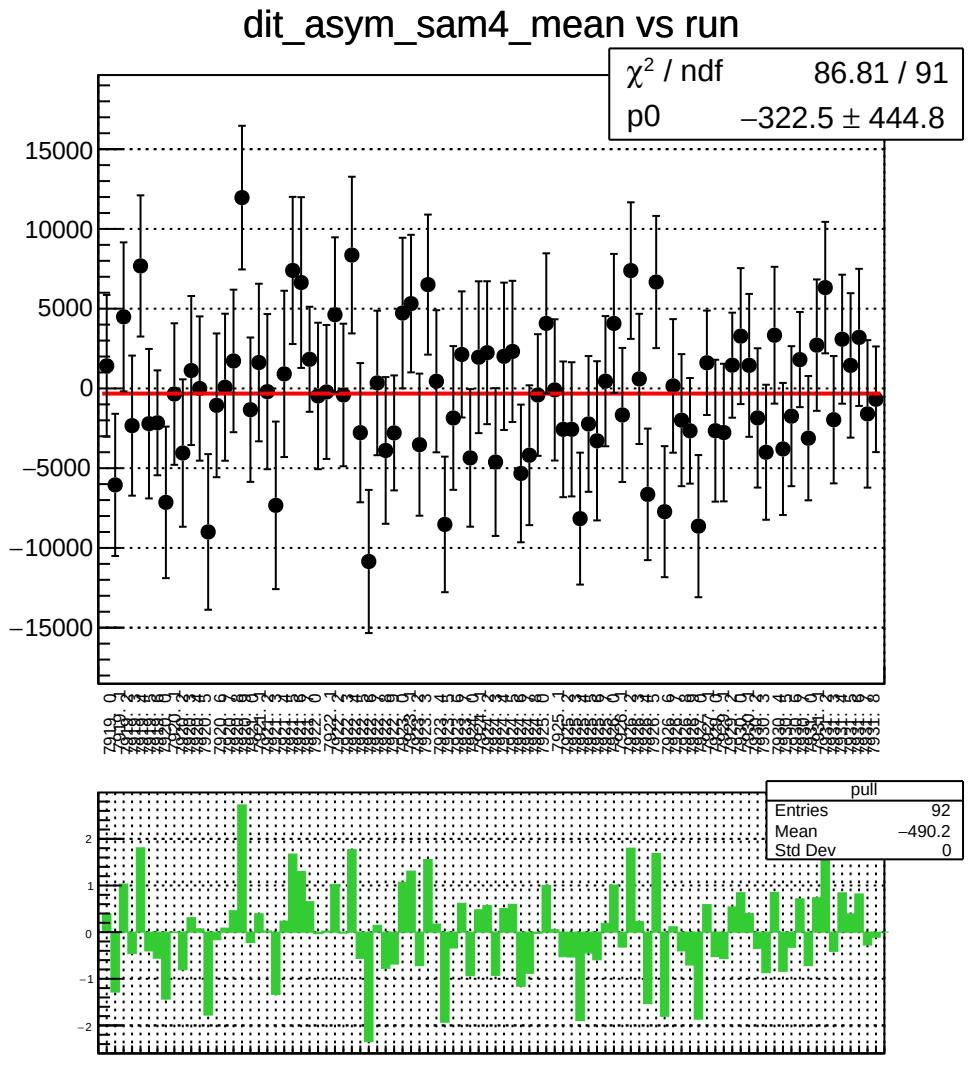

asym_sam4_cor_correction_rms vs run
χ² / ndf 2419 / 91
p0 5201 ± 3.898
6200
6000
5800
5600
5400
5200
5000
4800

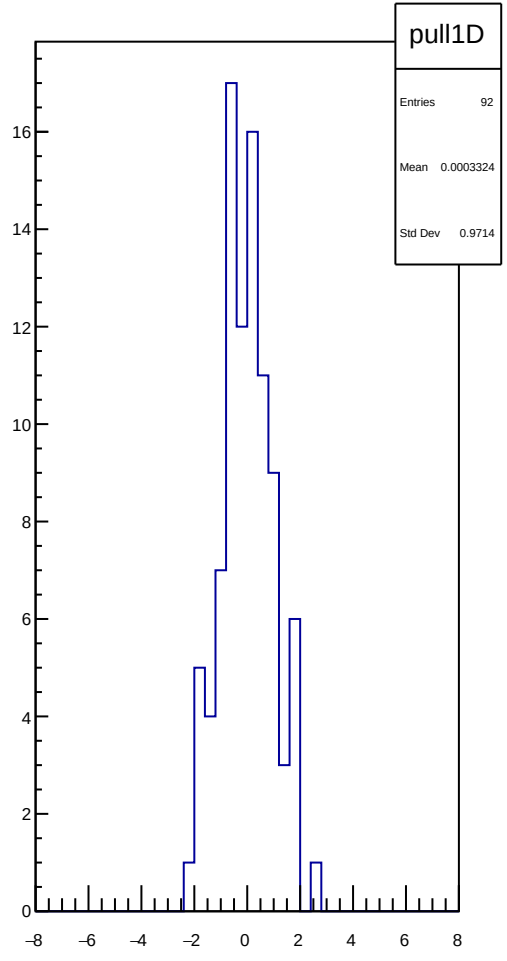

eigen_cor_asym_sam4_mean vs run
χ² / ndf 86.43 / 91
p0 −182.4 ± 404.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean 102.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.003845
Std Dev 0.9692
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

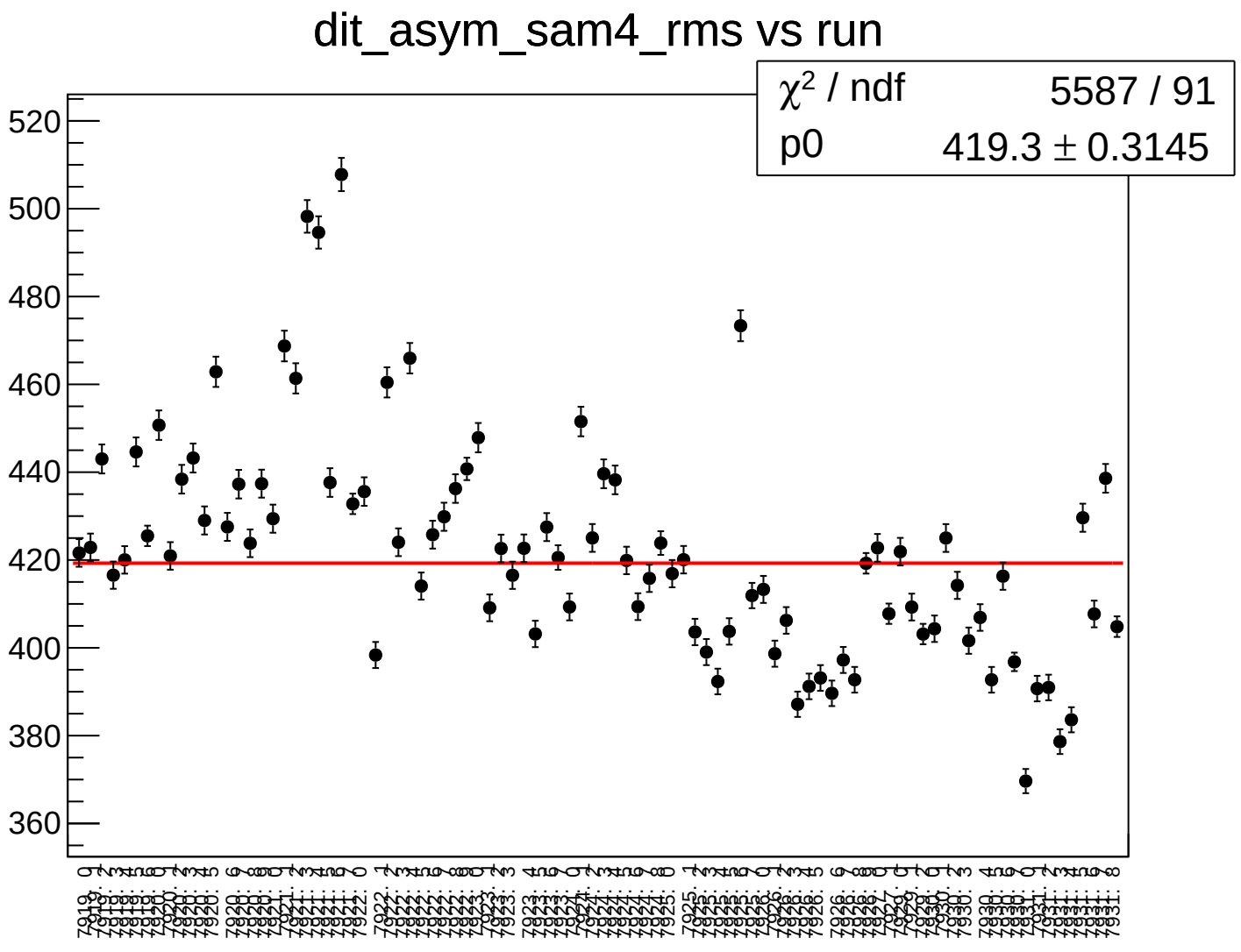

eigen_cor_asym_sam4_rms vs run
χ² / ndf 6461 / 91
p0 381 ± 0.2858
480
460
440
420
400
380
360
340

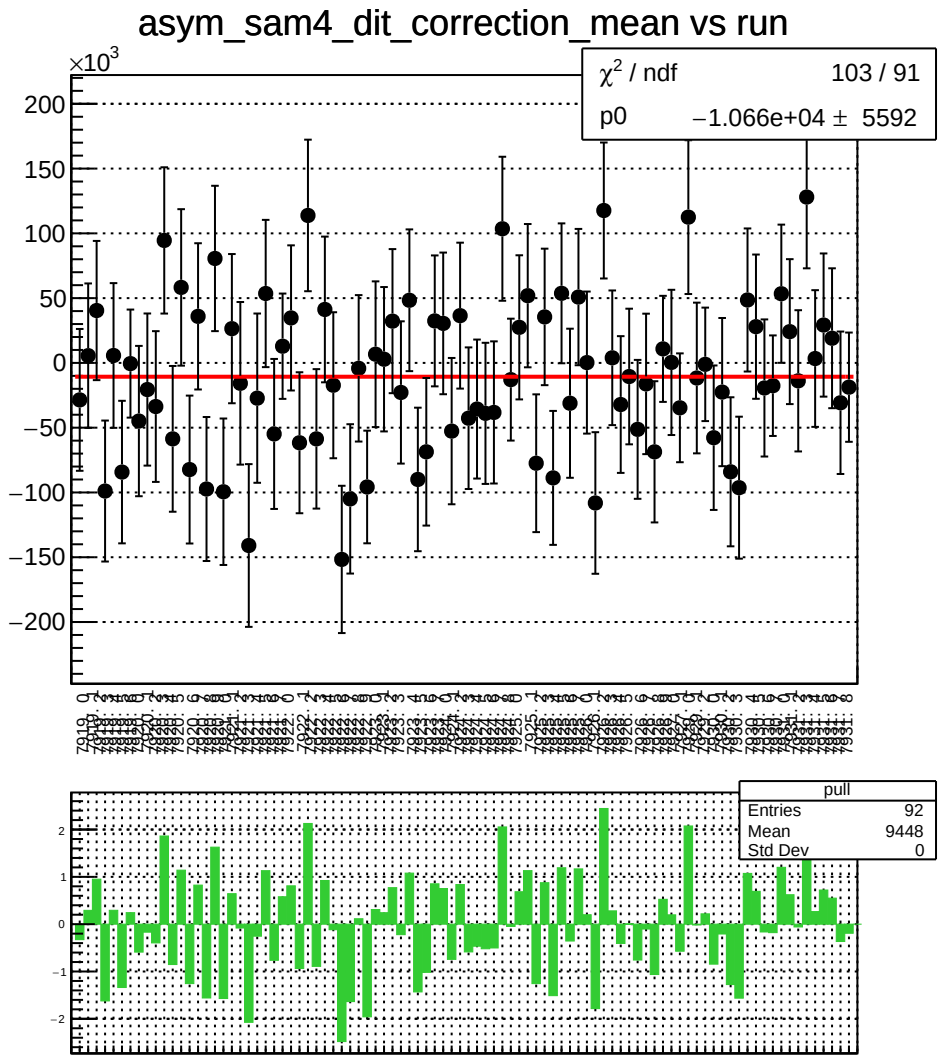

asym_sam4_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 102.6 / 91
p0 −1.058e+04 ± 5513
pull
Entries 92
Mean 5721
Std Dev 0
pull1D
Entries 92
Mean 0.0006571
Std Dev 1.056

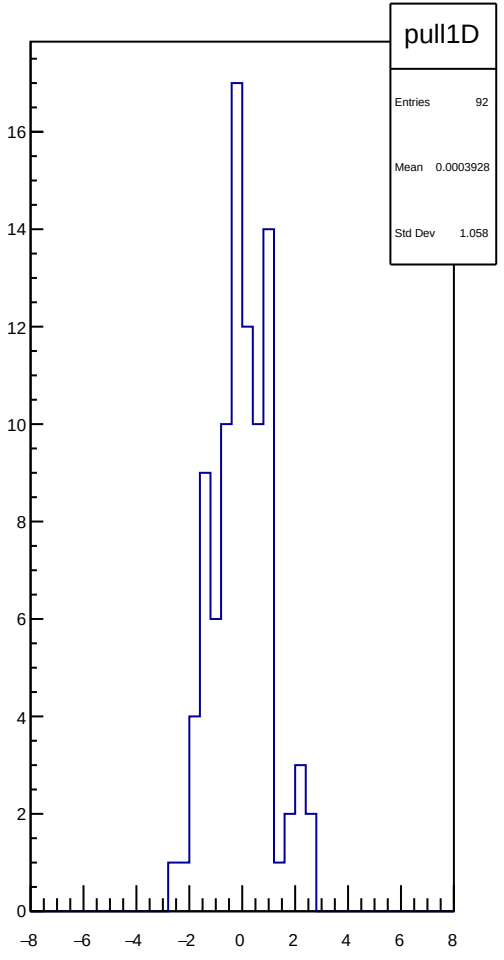

asym_sam4_eigen_cor_correction_rms vs run
χ² / ndf 2419 / 91
p0 5201 ± 3.898
6200
6000
5800
5600
5400
5200
5000
4800

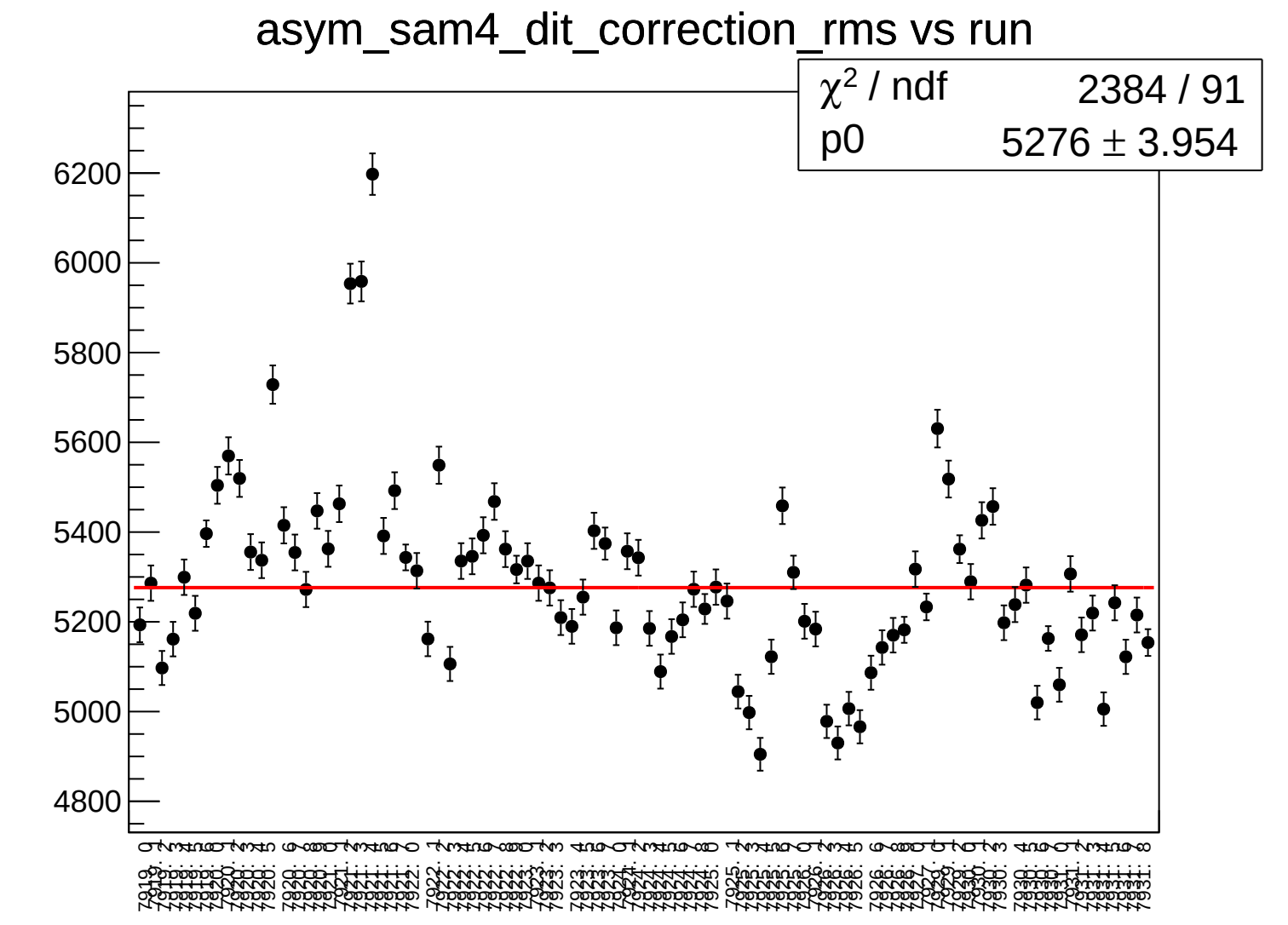

dit_asym_sam4_mean vs run
χ² / ndf 86.81 / 91
p0 −322.5 ± 444.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean −490.2
Std Dev 0
2
1
0
−1
−2

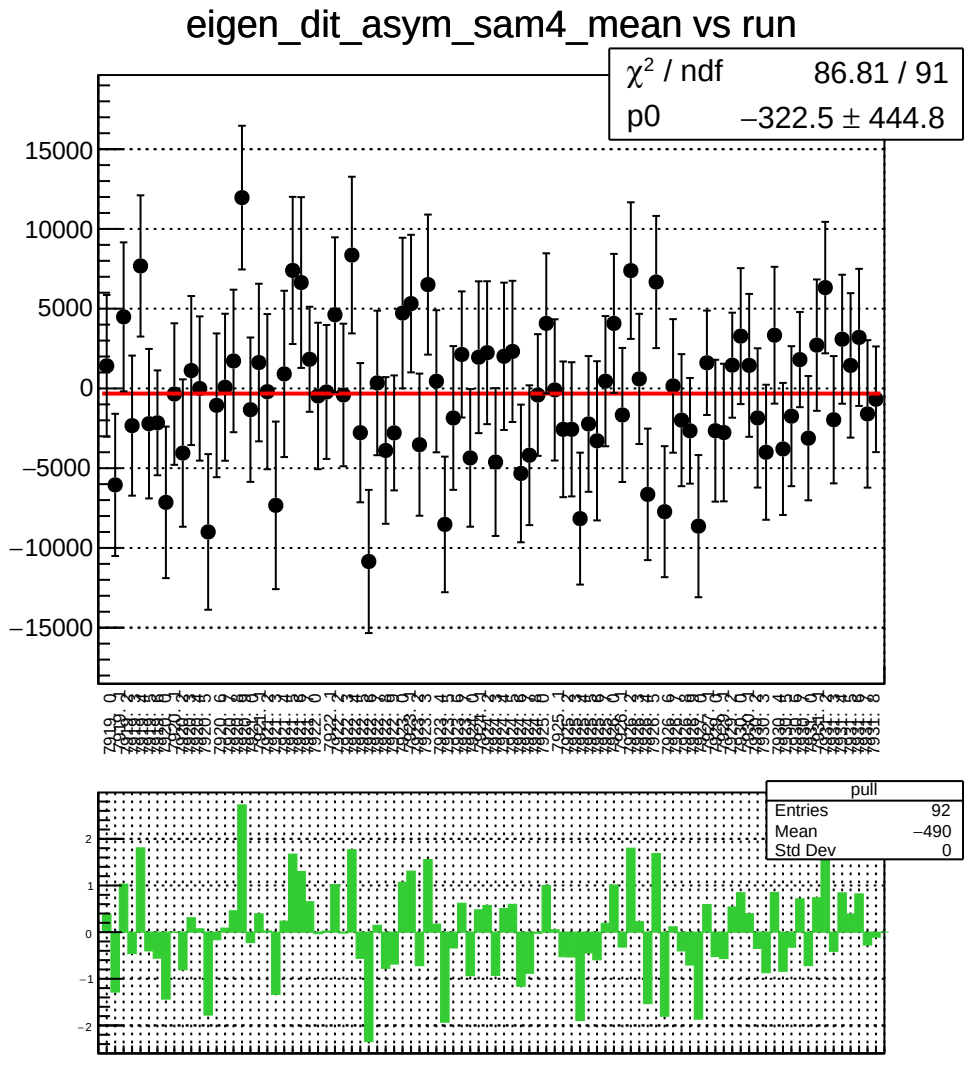

pull1D
Entries 92
Mean 0.0003324
Std Dev 0.9714
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

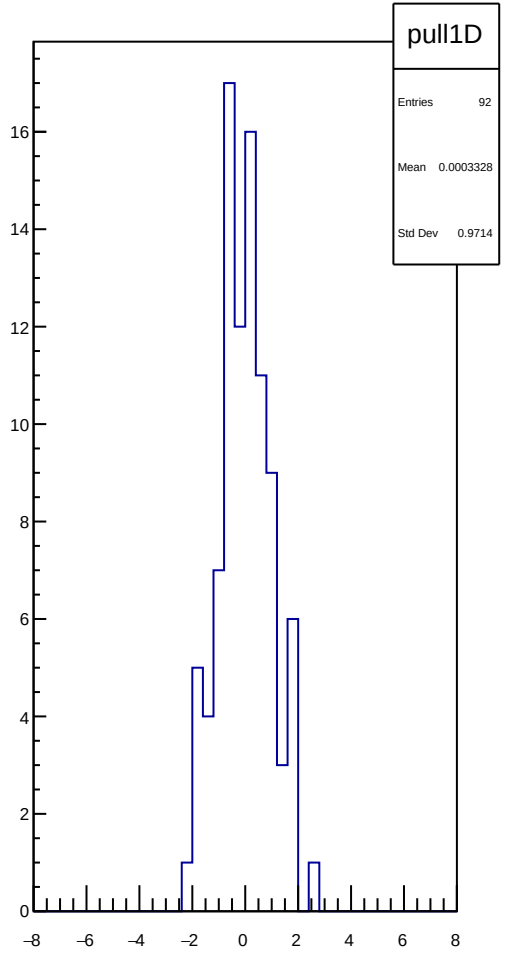

dit_asym_sam4_rms vs run
χ^2 / ndf 5587 / 91
p0 419.3 ± 0.3145
520
500
480
460
440
420
400
380
360

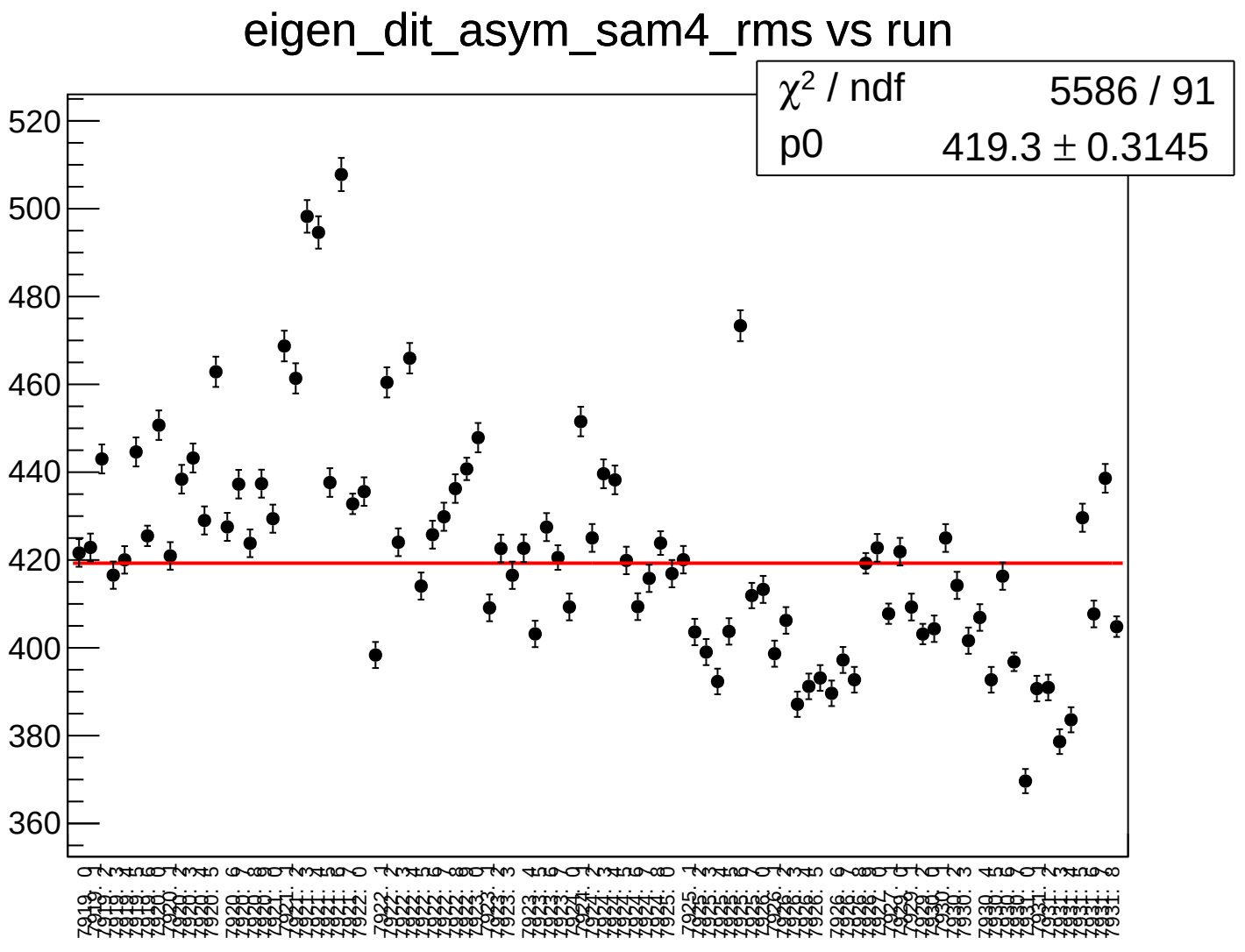

asym_sam4_dit_correction_mean vs run
×10^3
χ² / ndf 103 / 91
p0 −1.066e+04 ± 5592
pull
Entries 92
Mean 9448
Std Dev 0

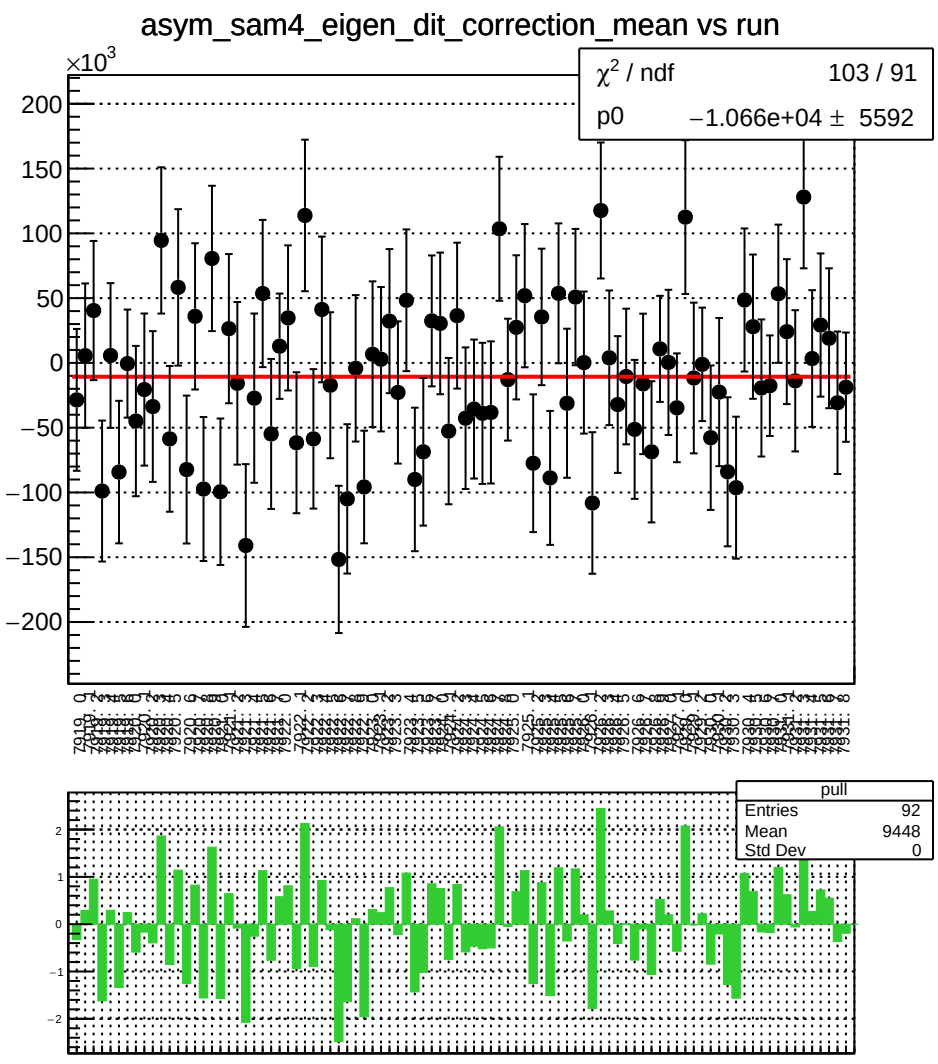

pull1D
Entries 92
Mean 0.0003928
Std Dev 1.058

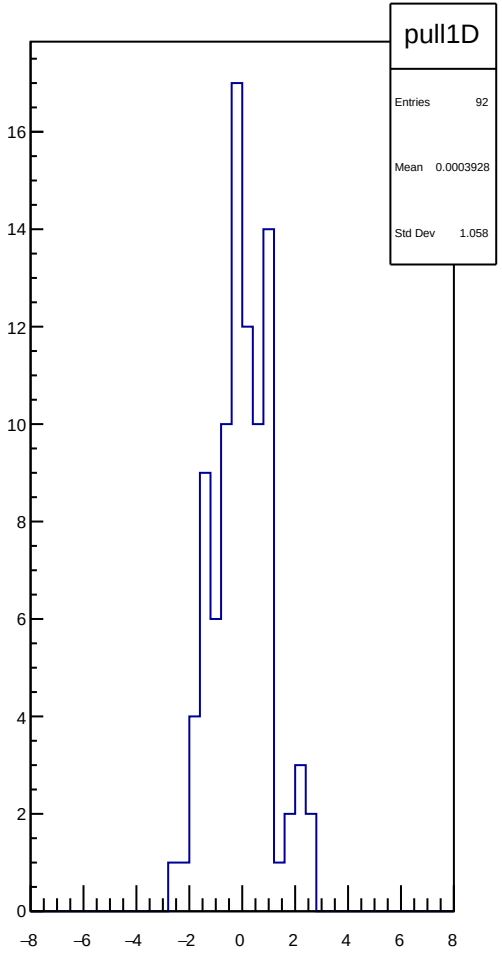

asym_sam4_dit_correction_rms vs run
χ² / ndf 2384 / 91
p0 5276 ± 3.954
6200
6000
5800
5600
5400
5200
5000
4800

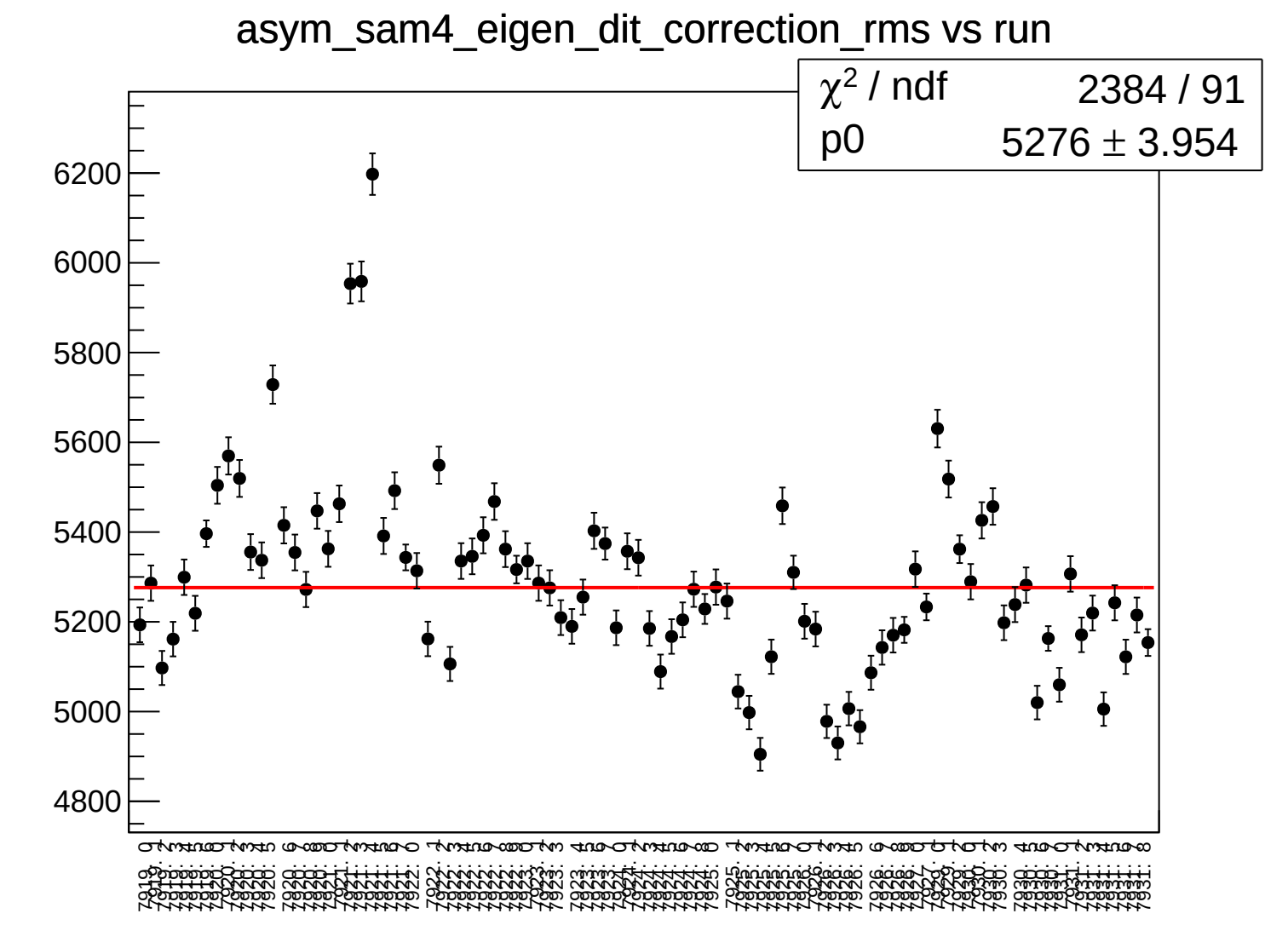

eigen_dit_asym_sam4_mean vs run
χ² / ndf 86.81 / 91
p0 −322.5 ± 444.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean −490
Std Dev 0
2
1
0
−1
−2

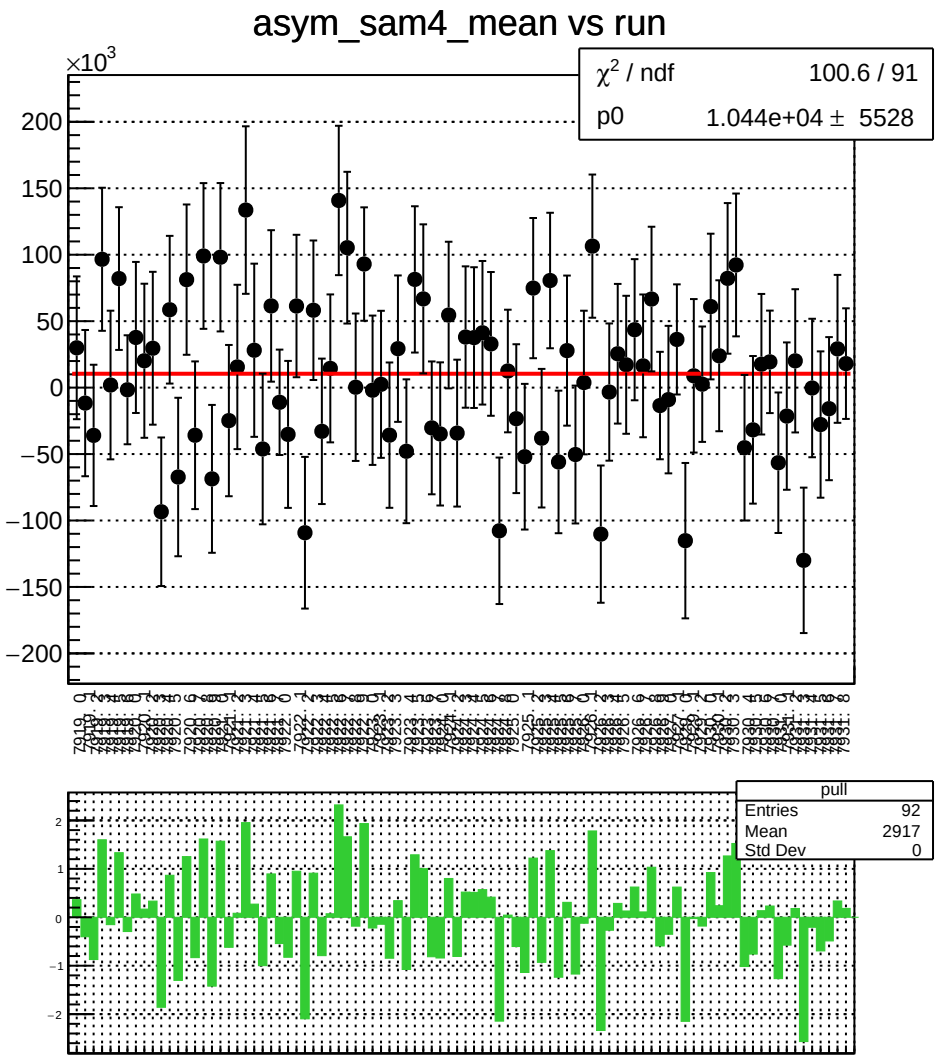

pull1D
Entries 92
Mean 0.0003328
Std Dev 0.9714
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

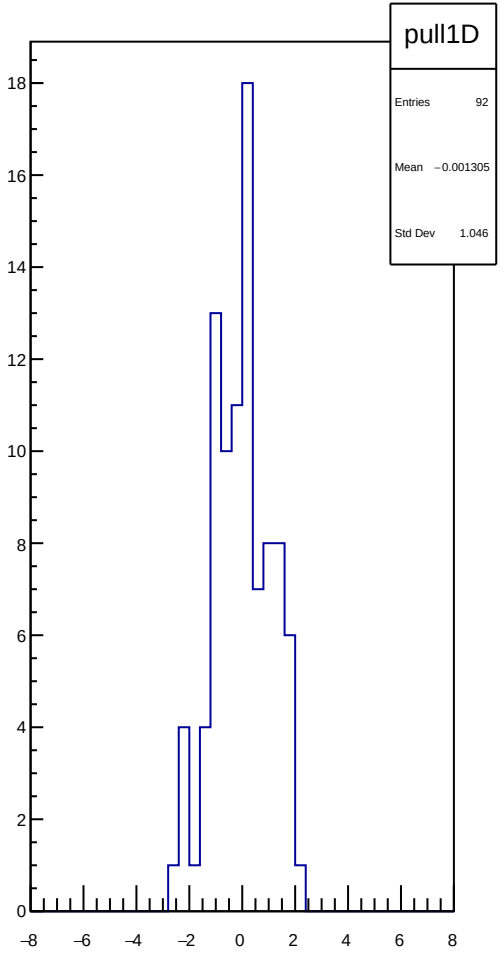

eigen_dit_asym_sam4_rms vs run
χ^2 / ndf 5586 / 91
p0 419.3 ± 0.3145
520
500
480
460
440
420
400
380
360

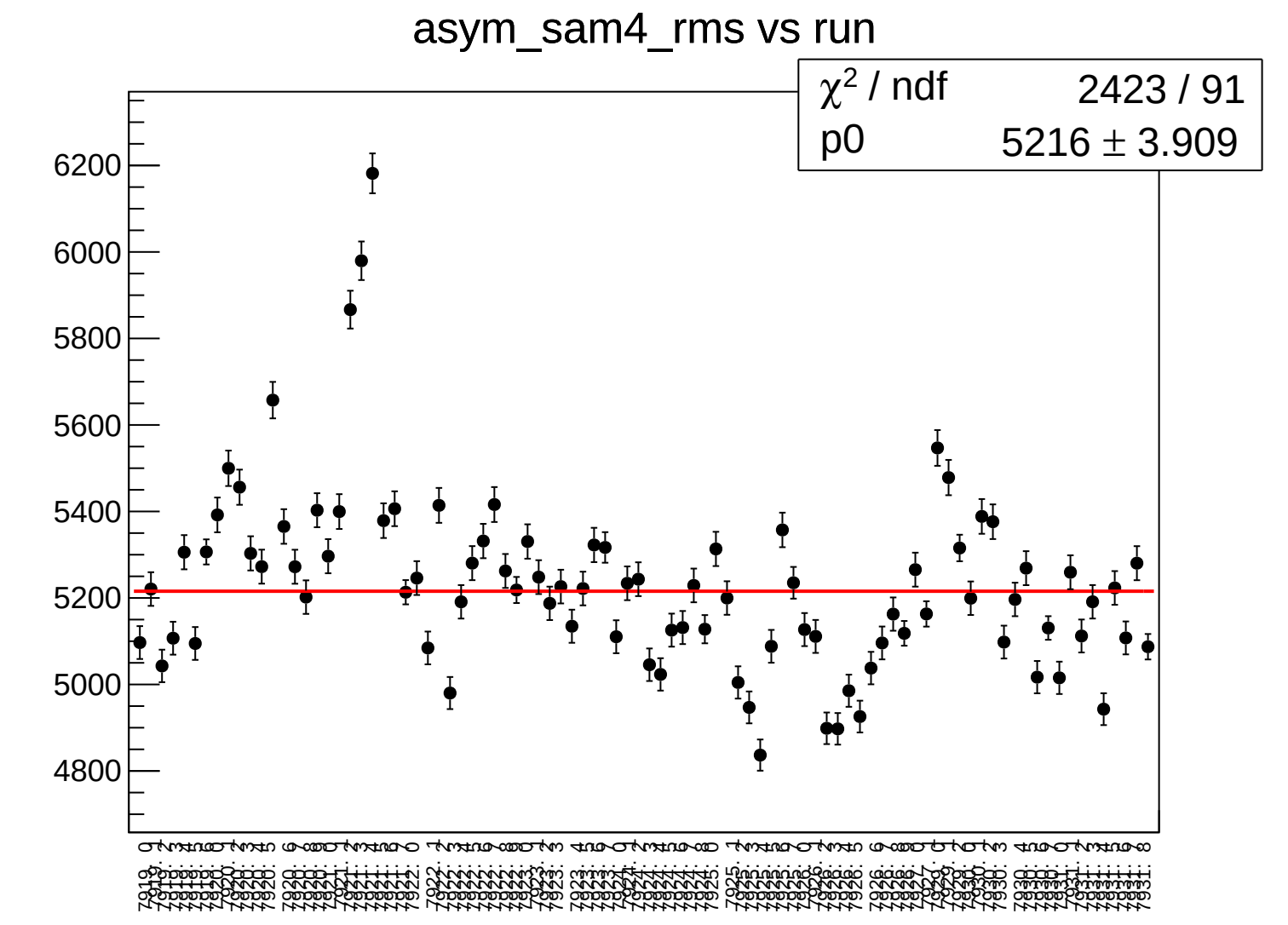

asym_sam4_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 103 / 91
p0 −1.066e+04 ± 5592
pull
Entries 92
Mean 9448
Std Dev 0

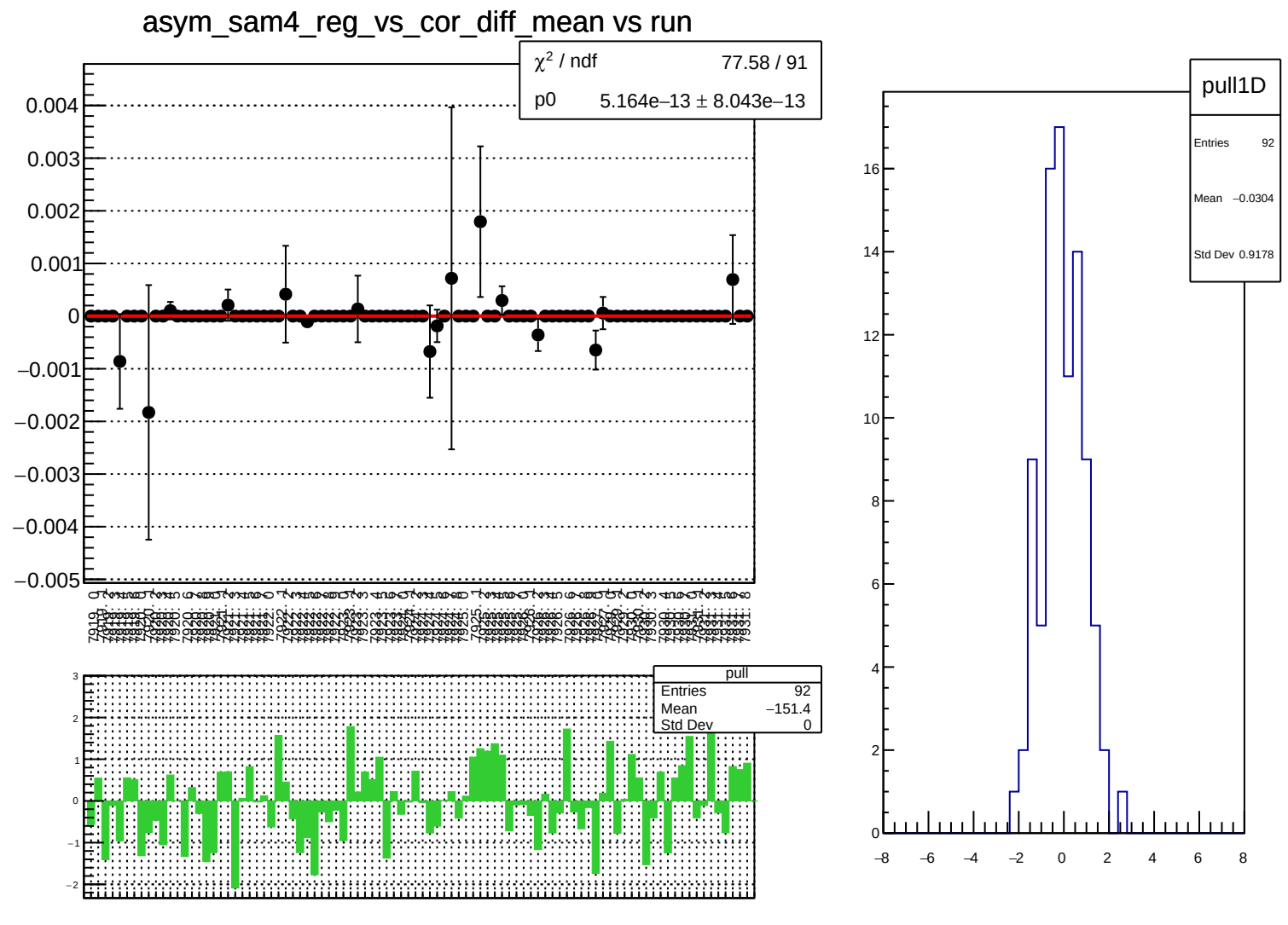

pull1D
Entries 92
Mean 0.0003928
Std Dev 1.058

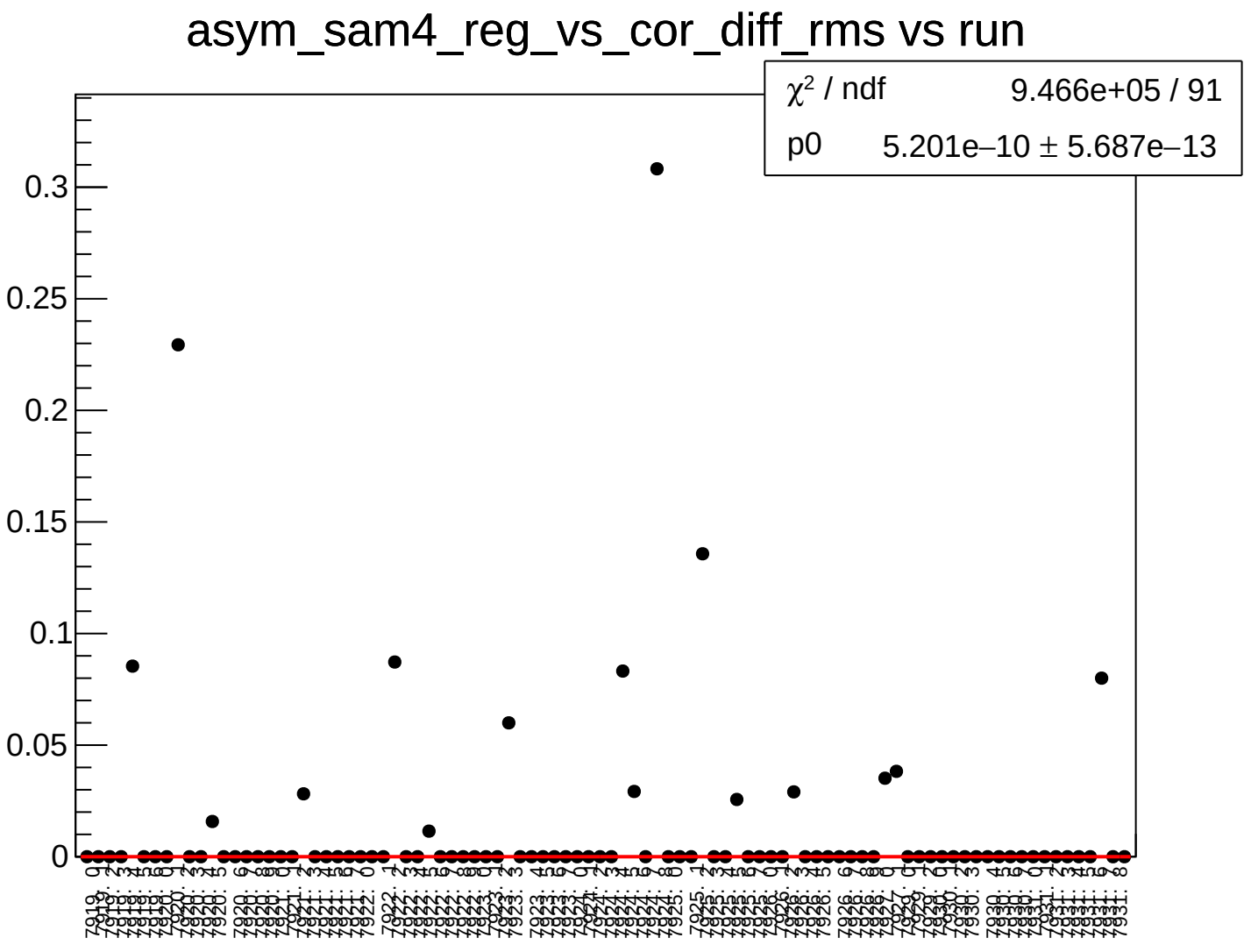

asym_sam4_eigen_dit_correction_rms vs run
χ² / ndf 2384 / 91
p0 5276 ± 3.954
6200
6000
5800
5600
5400
5200
5000
4800

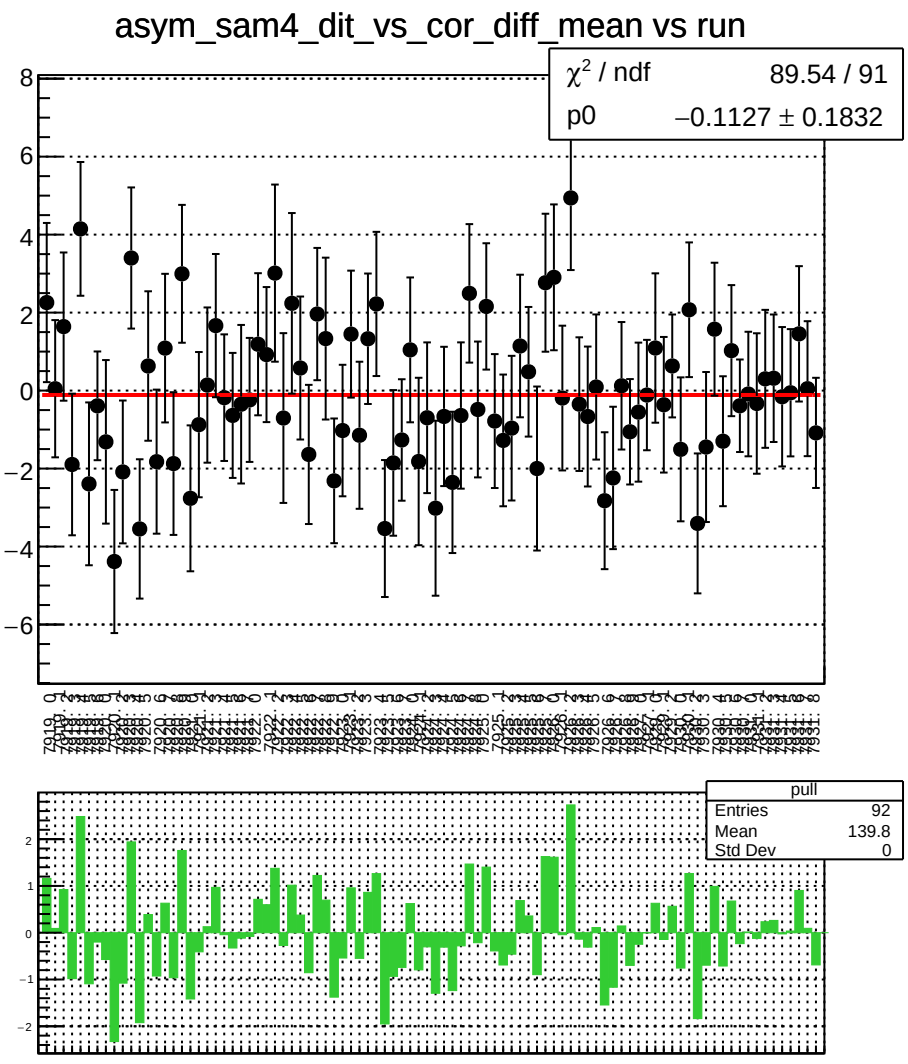

asym_sam4_mean vs run
×10^3
χ² / ndf 100.6 / 91
p0 1.044e+04 ± 5528
pull
Entries 92
Mean 2917
Std Dev 0

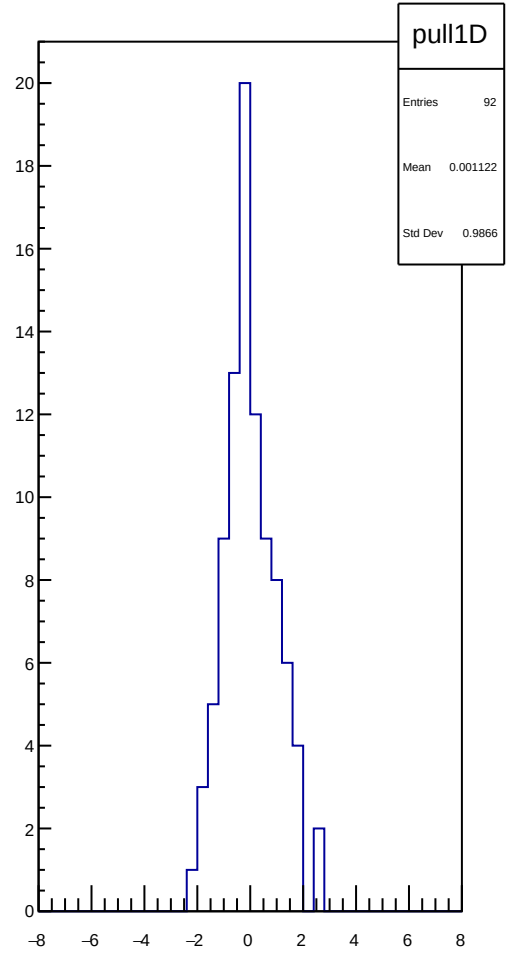

pull1D
Entries 92
Mean −0.001305
Std Dev 1.046

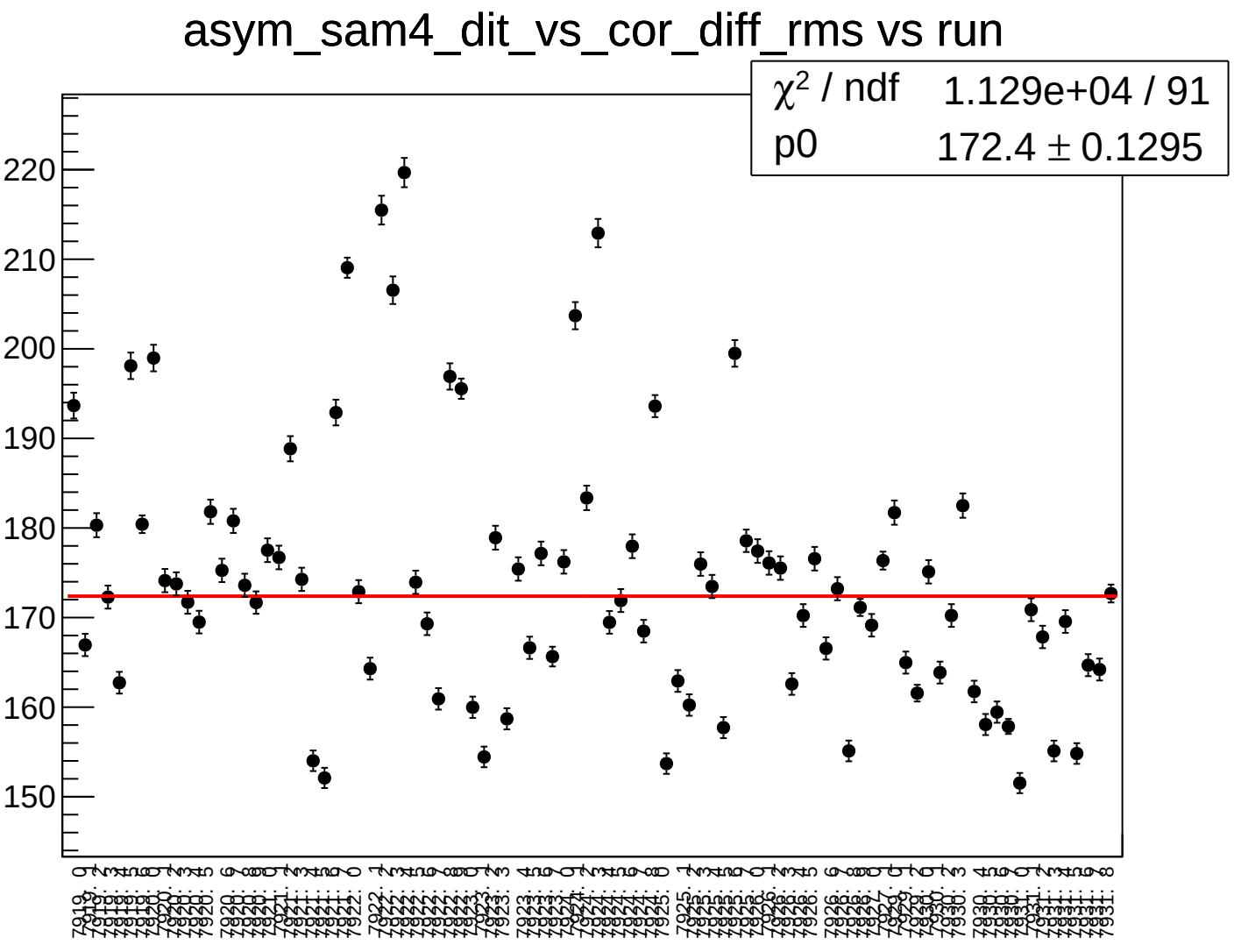

asym_sam4_rms vs run
χ² / ndf 2423 / 91
p0 5216 ± 3.909
6200
6000
5800
5600
5400
5200
5000
4800

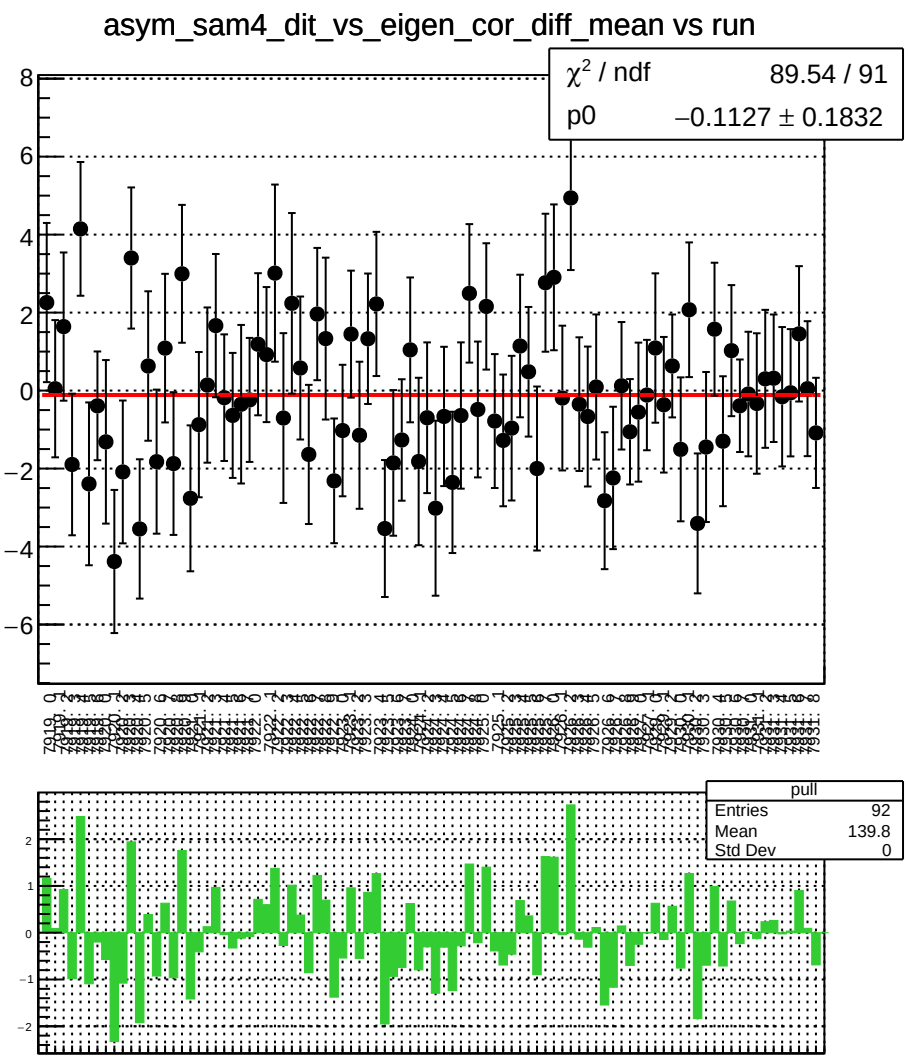

asym_sam4_reg_vs_cor_diff_mean vs run
χ² / ndf 77.58 / 91
p0 5.164e−13 ± 8.043e−13
pull
Entries 92
Mean −151.4
Std Dev 0
pull1D
Entries 92
Mean −0.0304
Std Dev 0.9178

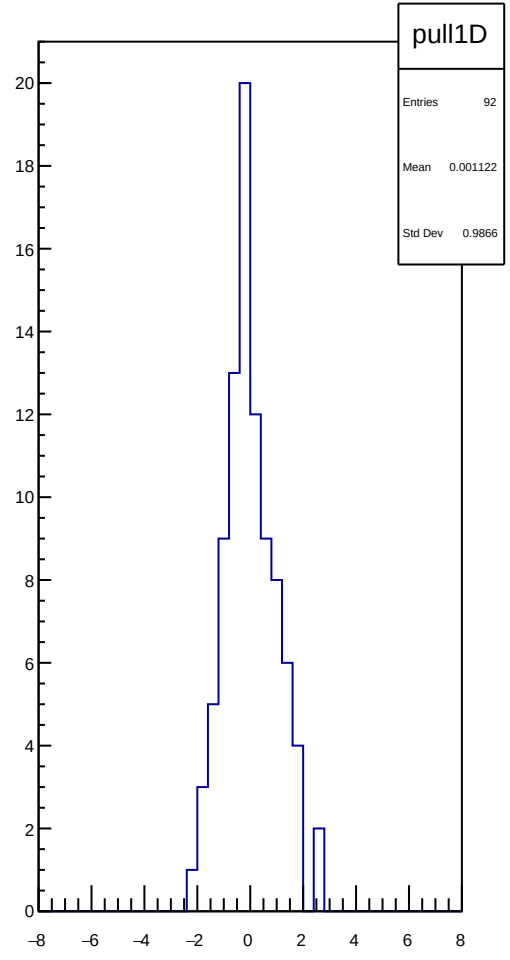

asym_sam4_reg_vs_cor_diff_rms vs run
χ² / ndf 9.466e+05 / 91
p0 5.201e−10 ± 5.687e−13
0.3
0.25
0.2
0.15
0.1
0.05
0

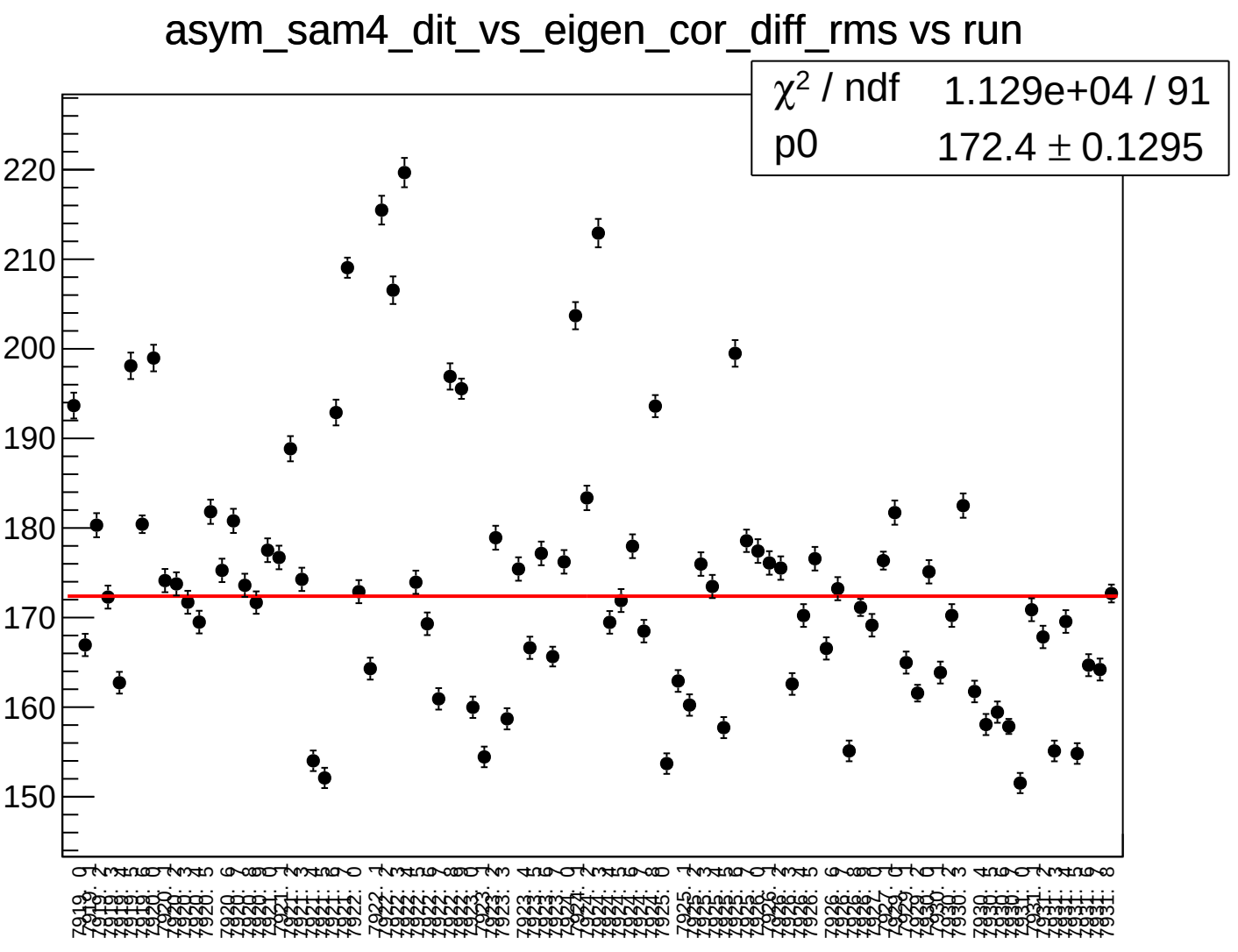

asym_sam4_dit_vs_cor_diff_mean vs run
χ² / ndf 89.54 / 91
p0 −0.1127 ± 0.1832
pull
Entries 92
Mean 139.8
Std Dev 0

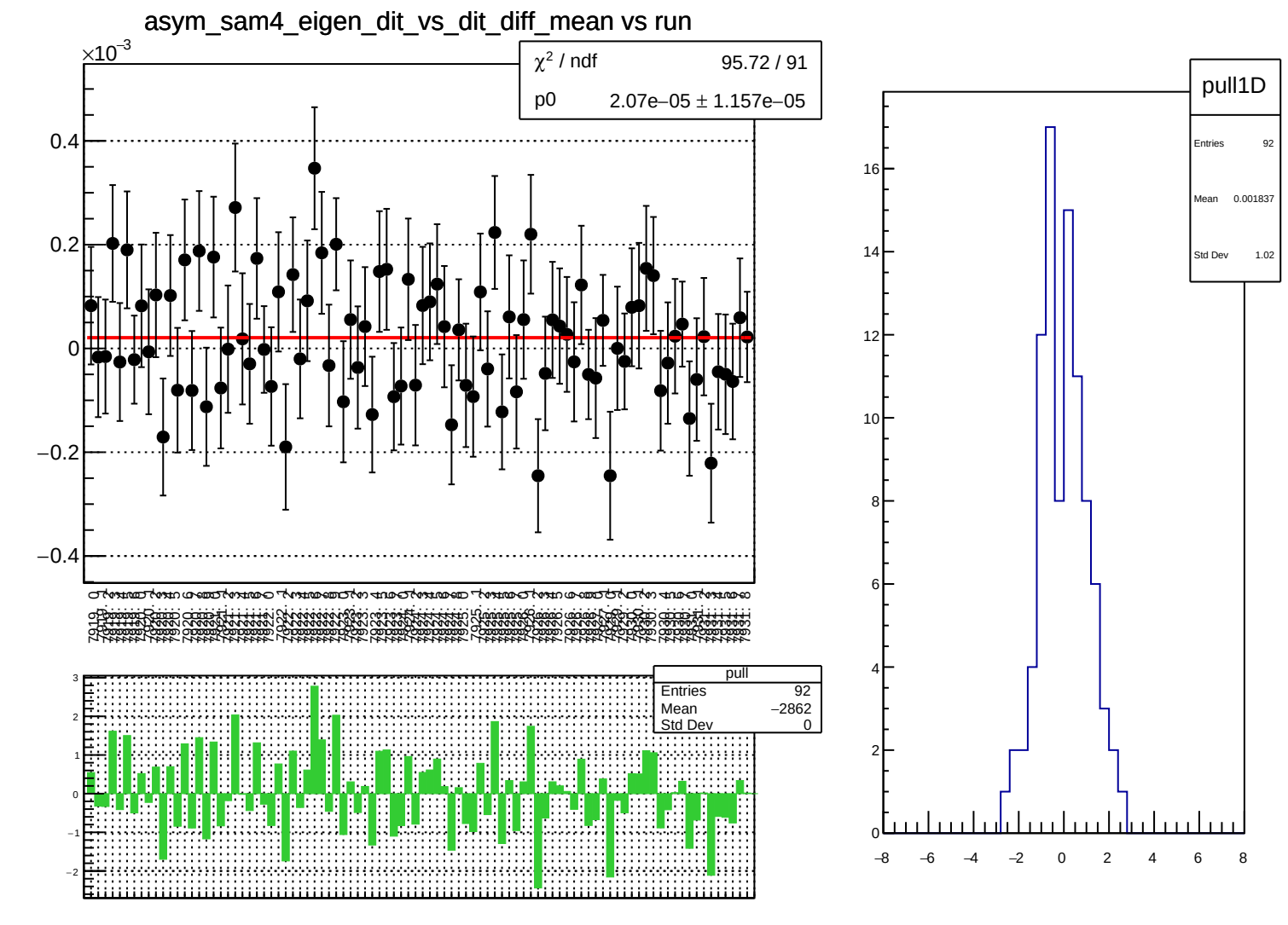

pull1D
Entries 92
Mean 0.001122
Std Dev 0.9866

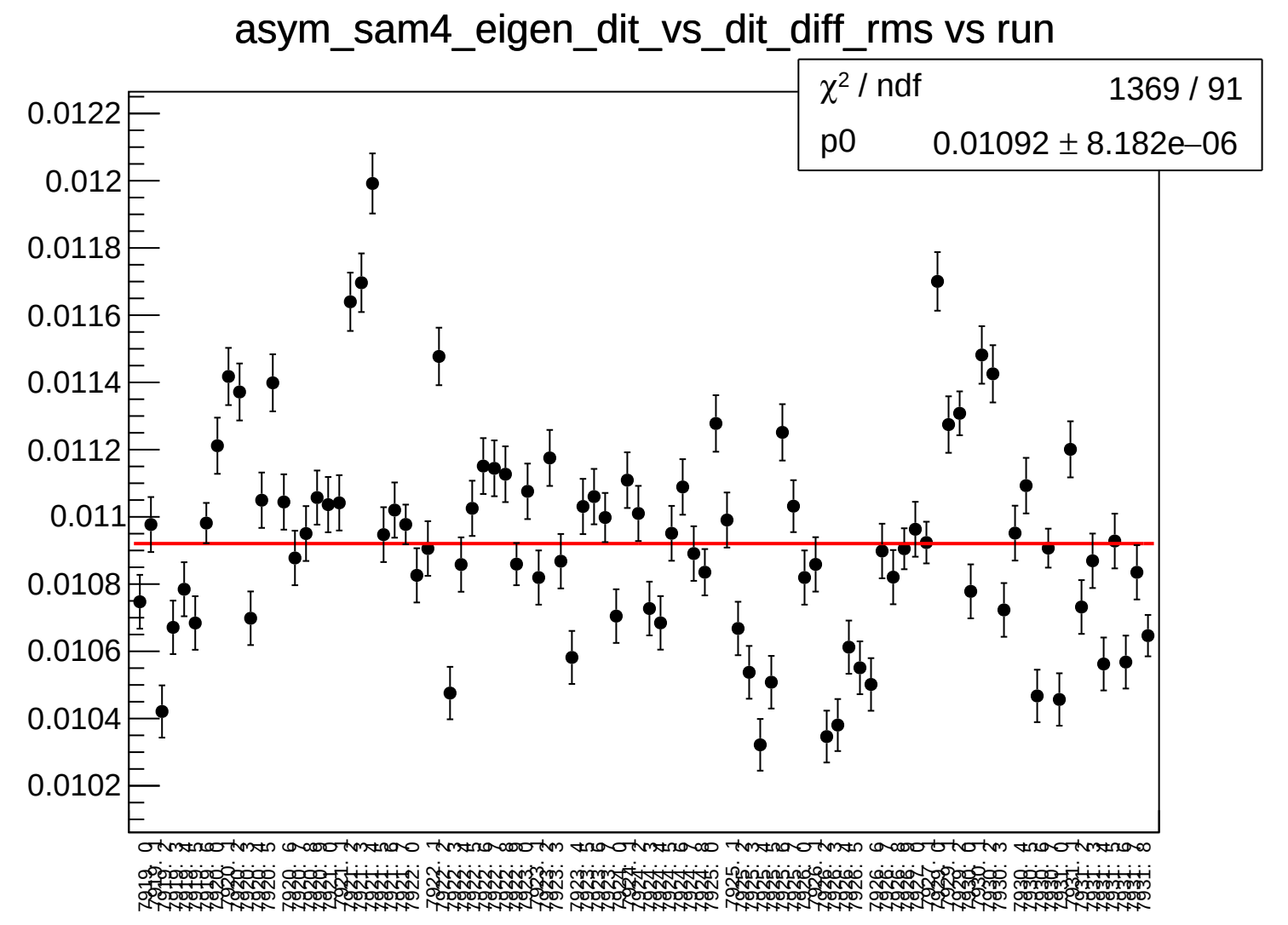

asym_sam4_dit_vs_cor_diff_rms vs run
χ² / ndf 1.129e+04 / 91
p0 172.4 ± 0.1295
220
210
200
190
180
170
160
150

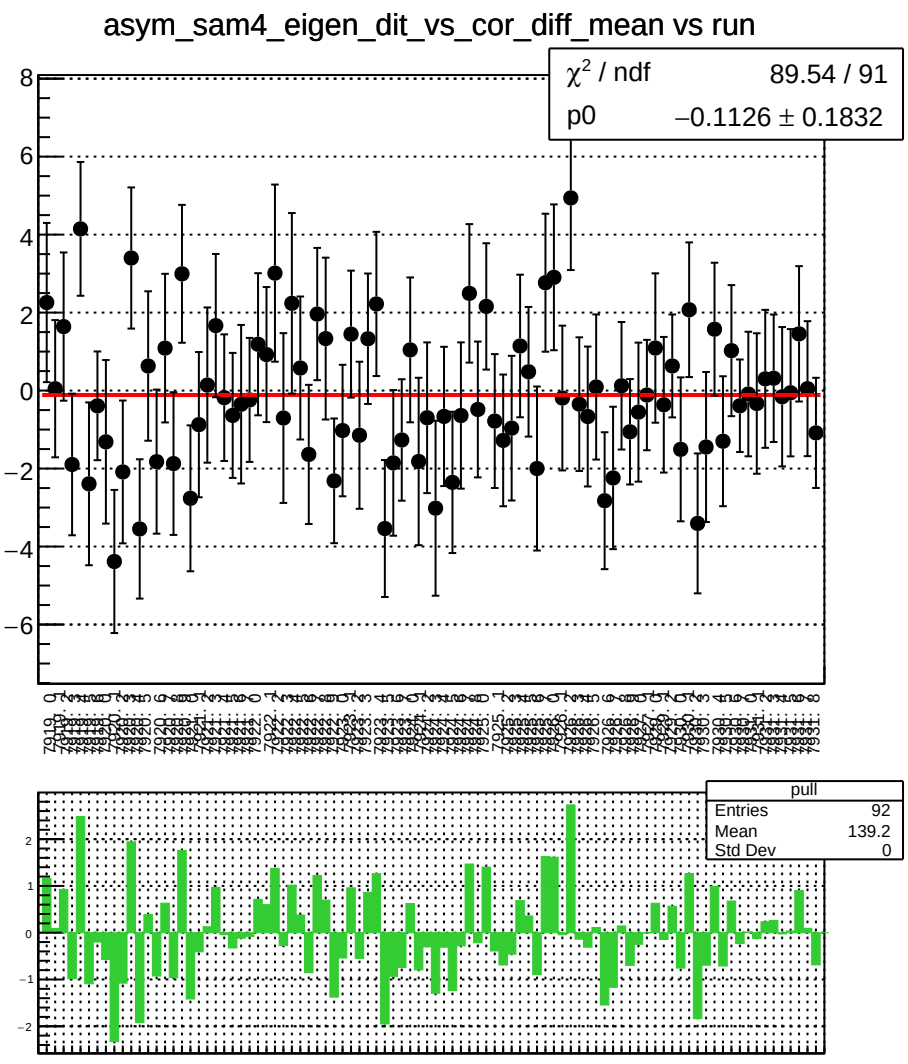

asym_sam4_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.54 / 91
p0 −0.1127 ± 0.1832
pull
Entries 92
Mean 139.8
Std Dev 0

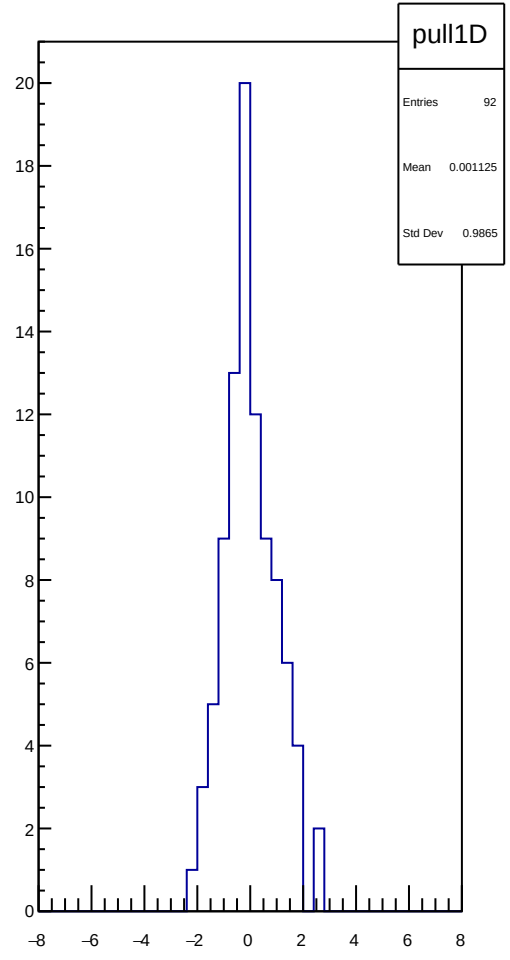

pull1D
Entries 92
Mean 0.001122
Std Dev 0.9866

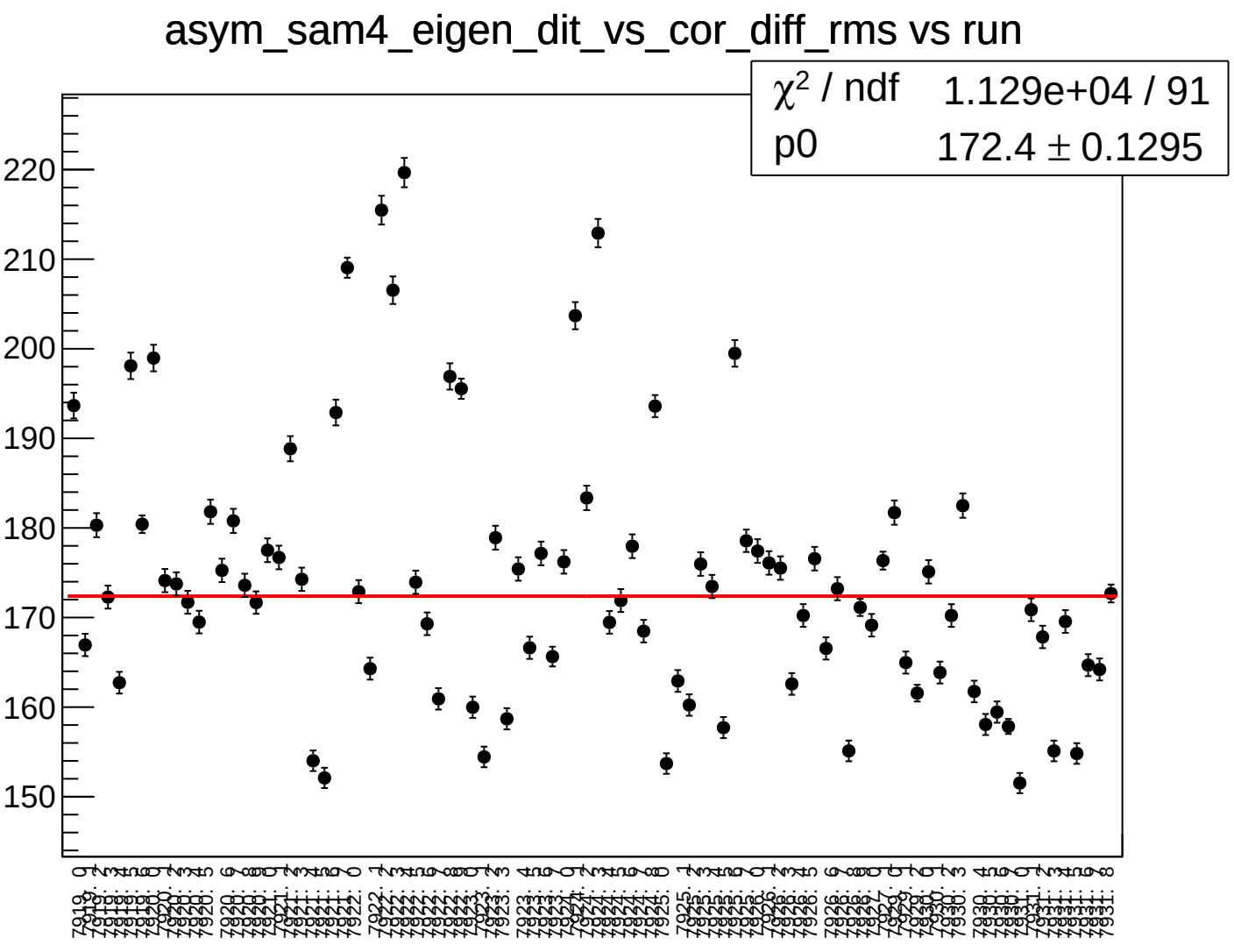

asym_sam4_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.129e+04 / 91
p0 172.4 ± 0.1295
220
210
200
190
180
170
160
150

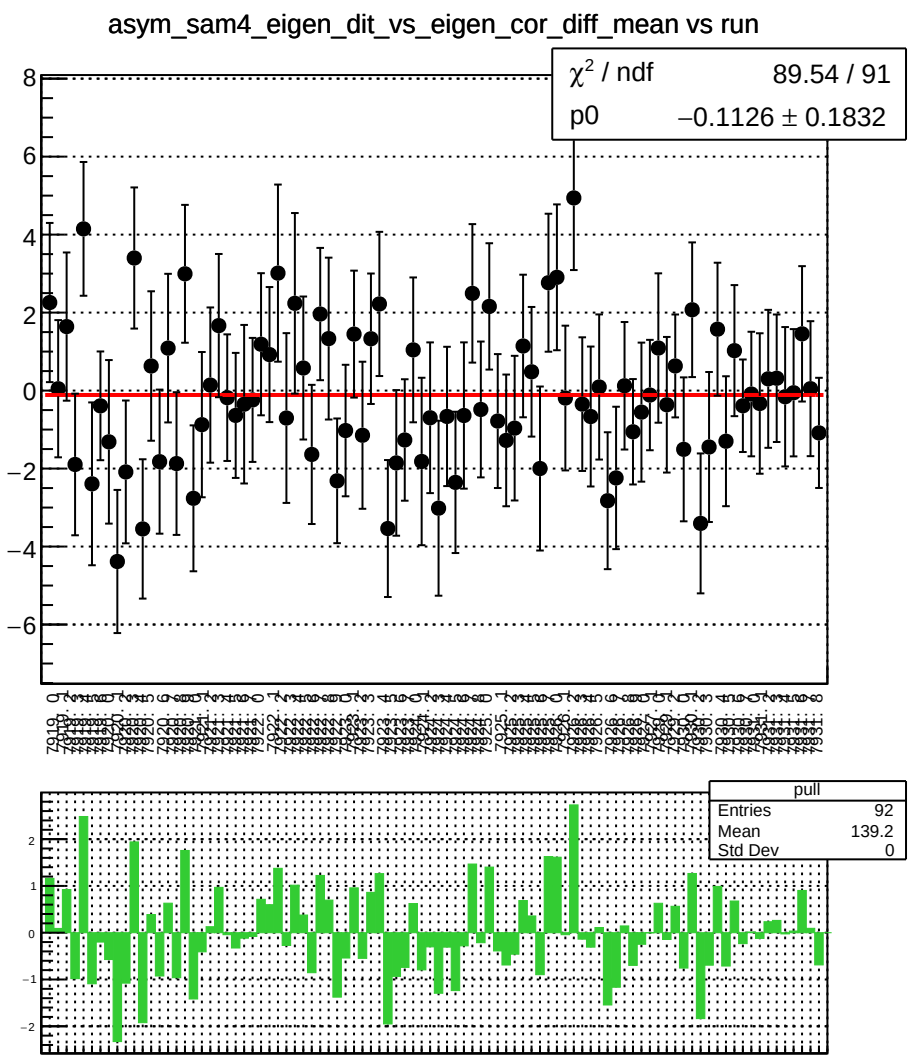

asym_sam4_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 95.72 / 91
p0 2.07e−05 ± 1.157e−05
0.4
0.2
0
−0.2
−0.4
pull
Entries 92
Mean −2862
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.001837
Std Dev 1.02
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

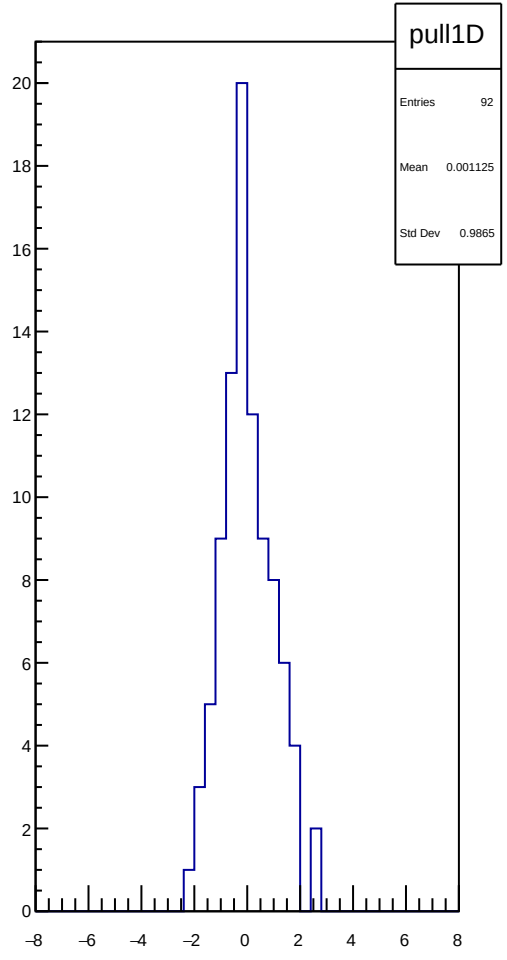

asym_sam4_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1369 / 91
p0 0.01092 ± 8.182e–06
0.0122
0.012
0.0118
0.0116
0.0114
0.0112
0.011
0.0108
0.0106
0.0104
0.0102

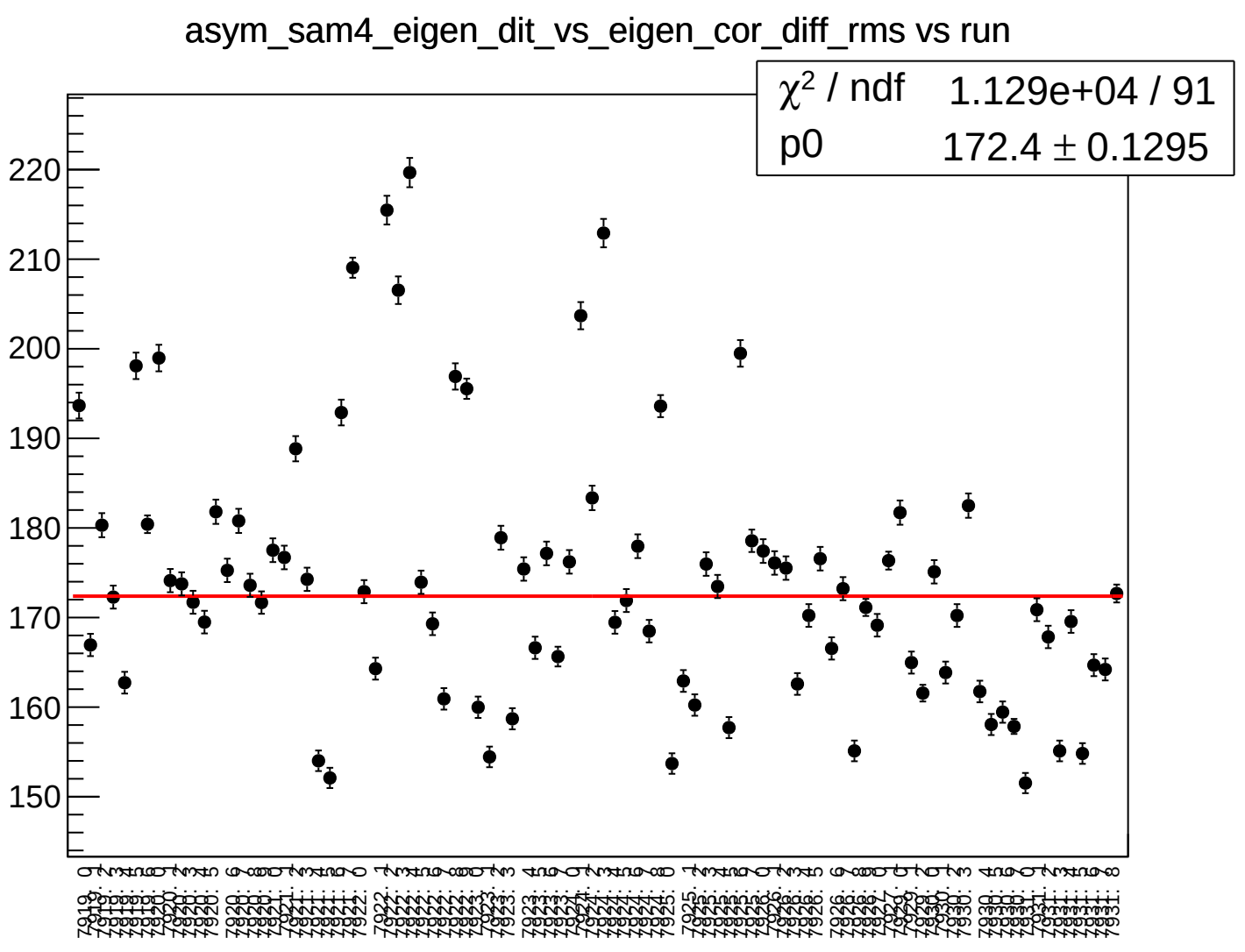

asym_sam4_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.54 / 91
p0 −0.1126 ± 0.1832
pull
Entries 92
Mean 139.2
Std Dev 0

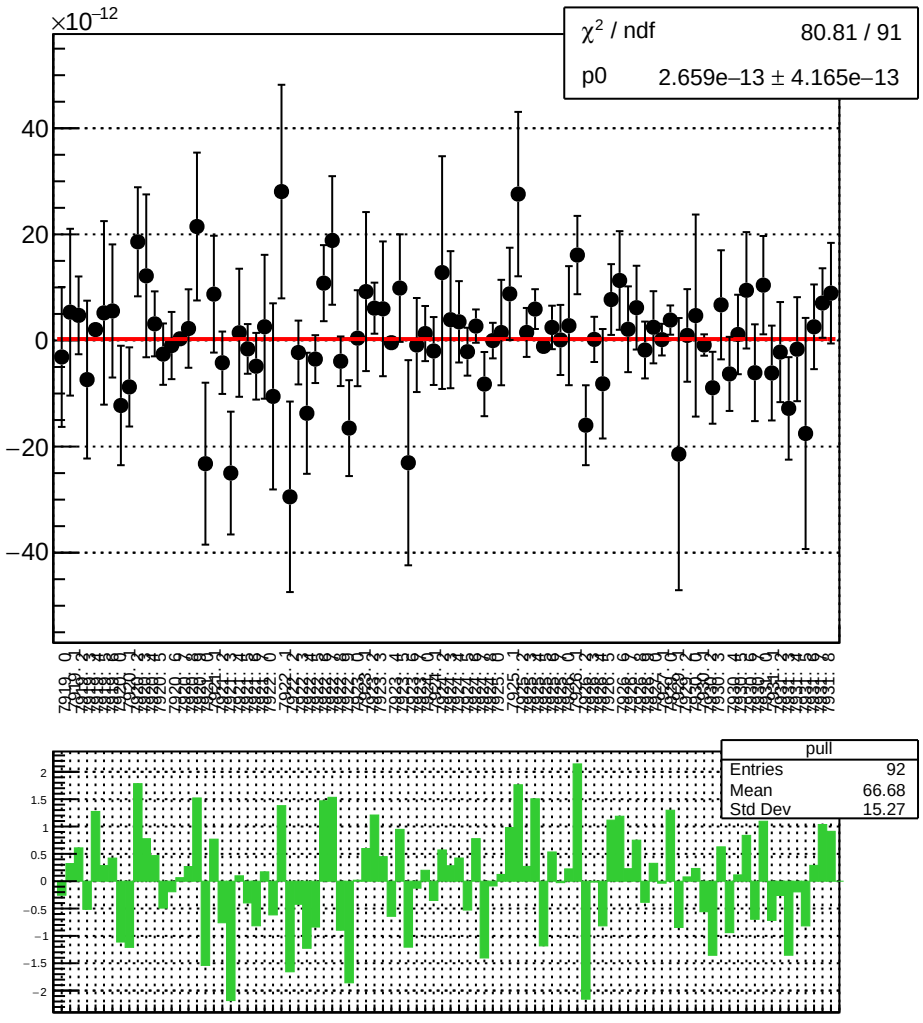

pull1D
Entries 92
Mean 0.001125
Std Dev 0.9865

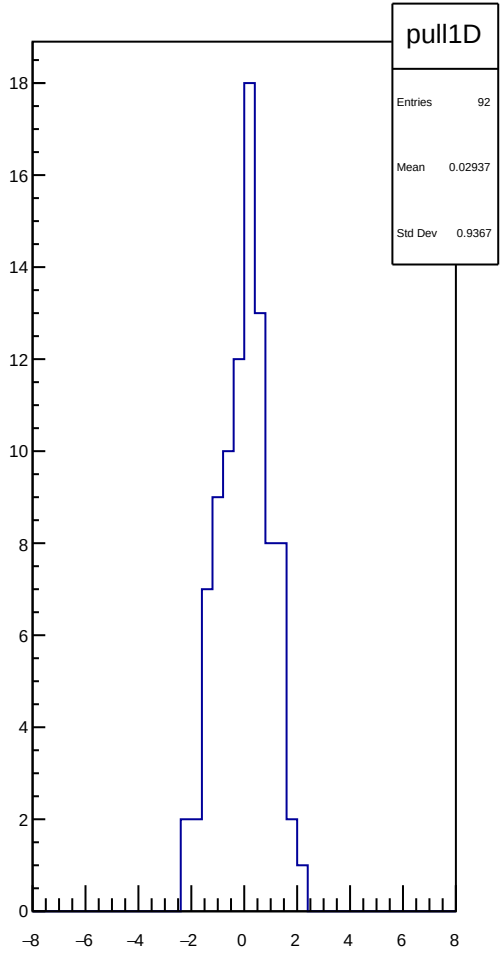

asym_sam4_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.129e+04 / 91
p0 172.4 ± 0.1295
220
210
200
190
180
170
160
150

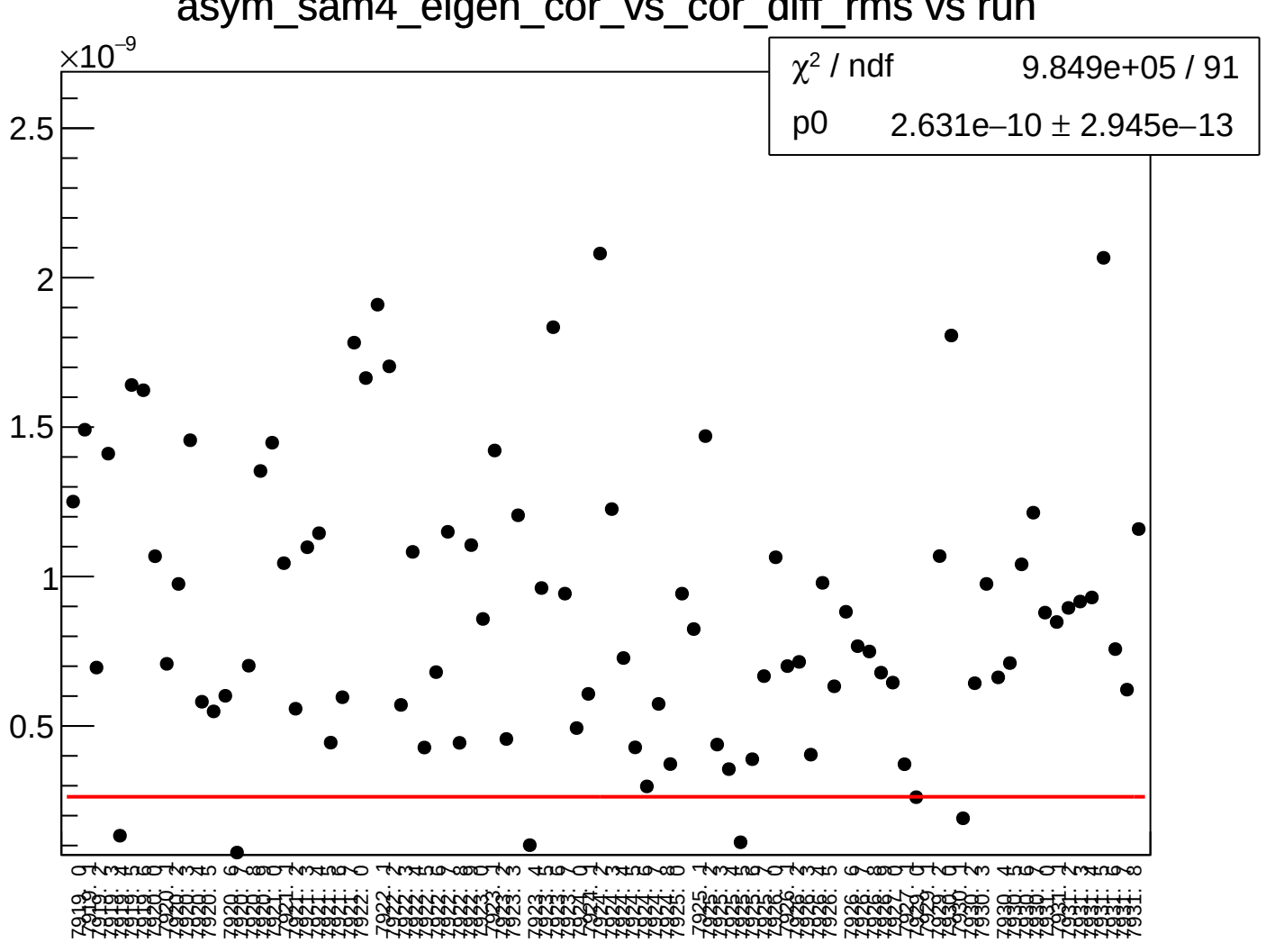

asym_sam4_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.54 / 91
p0 −0.1126 ± 0.1832
pull
Entries 92
Mean 139.2
Std Dev 0

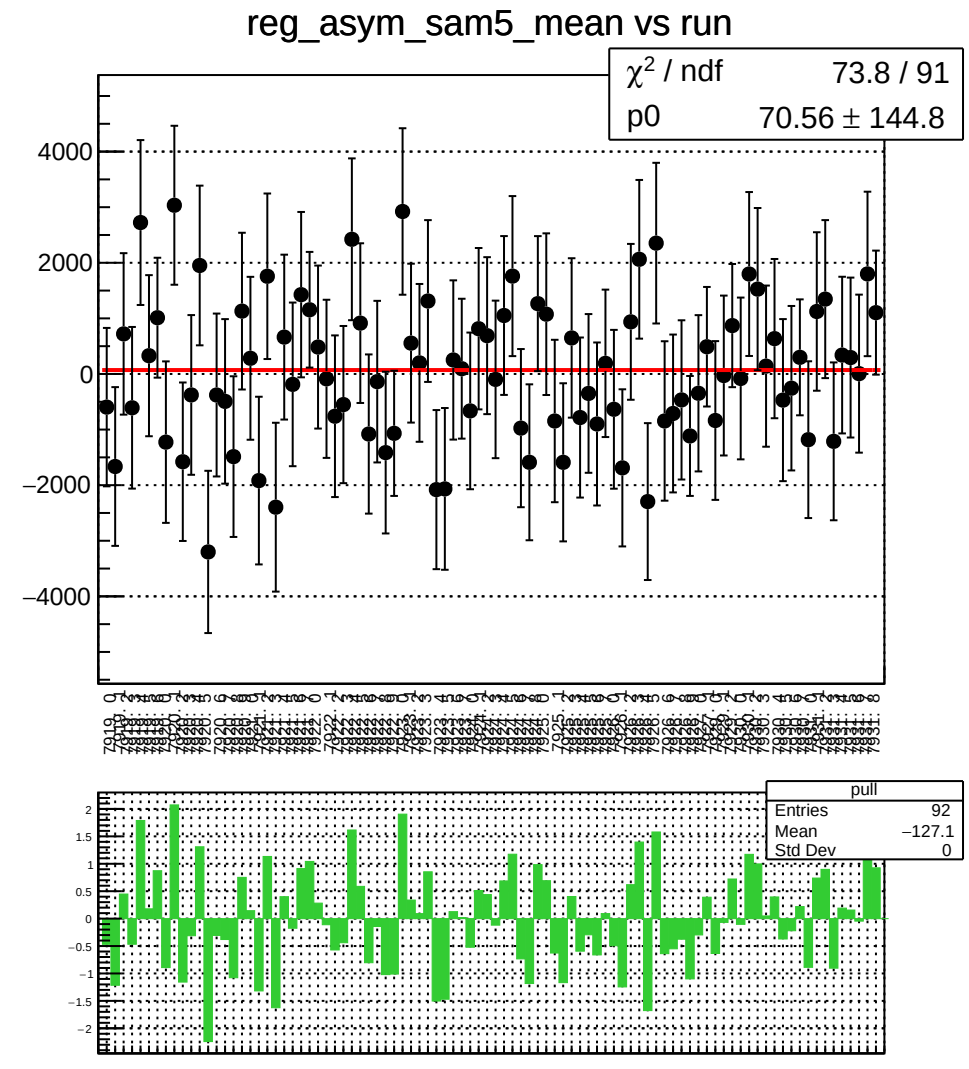

pull1D
Entries 92
Mean 0.001125
Std Dev 0.9865

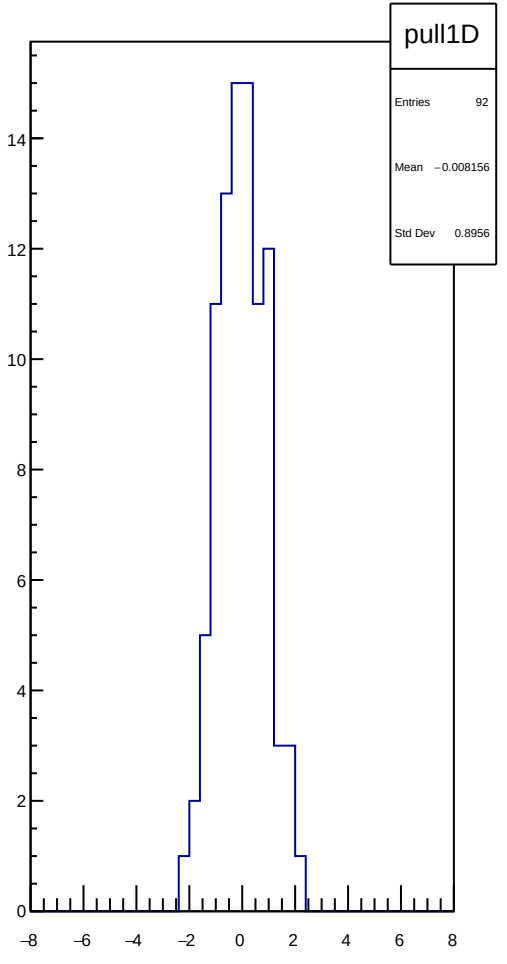

asym_sam4_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.129e+04 / 91
p0 172.4 ± 0.1295
220
210
200
190
180
170
160
150

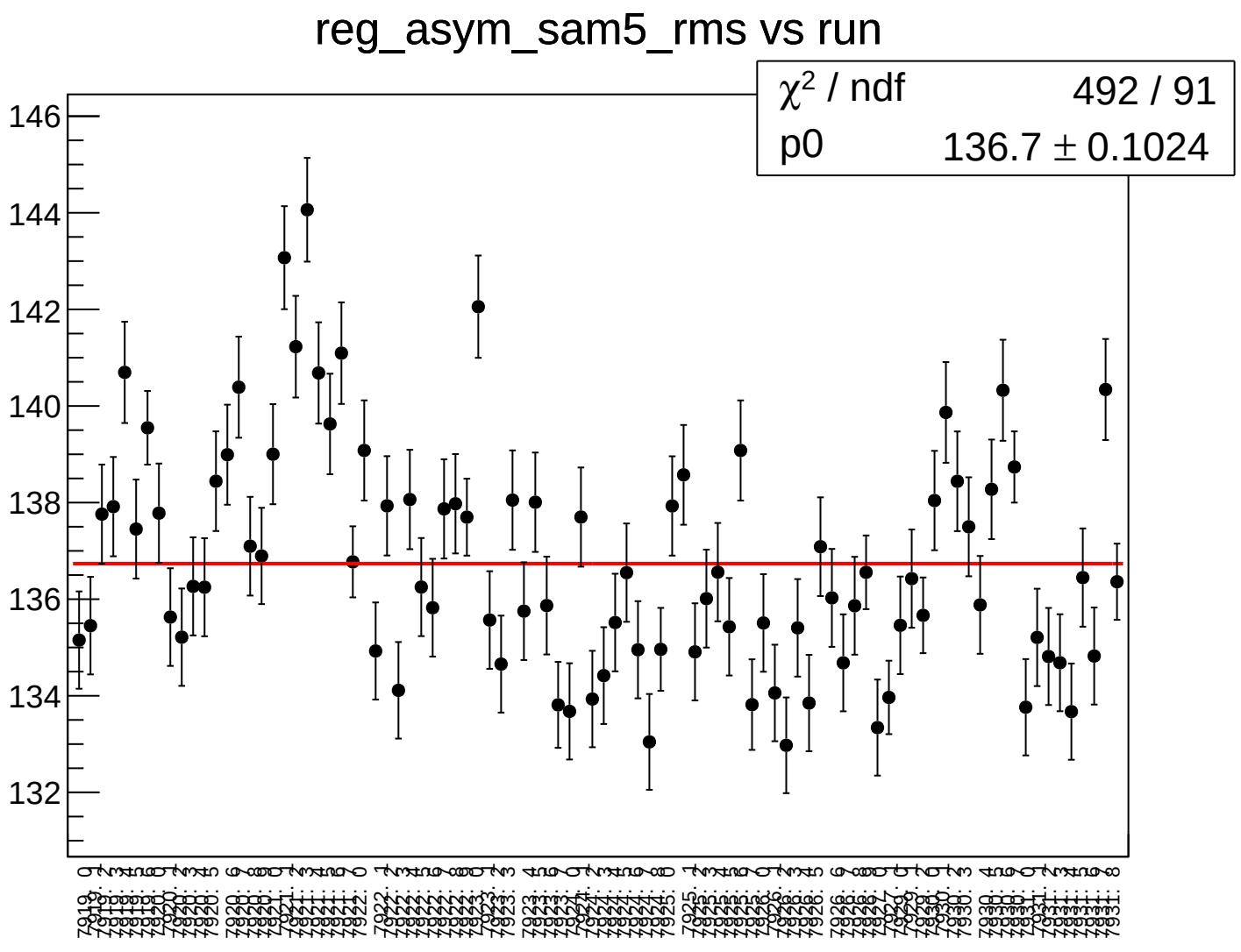

asym_sam4_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.81 / 91
p0 2.659e−13 ± 4.165e−13
40
20
0
−20
−40
pull
Entries 92
Mean 66.68
Std Dev 15.27
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

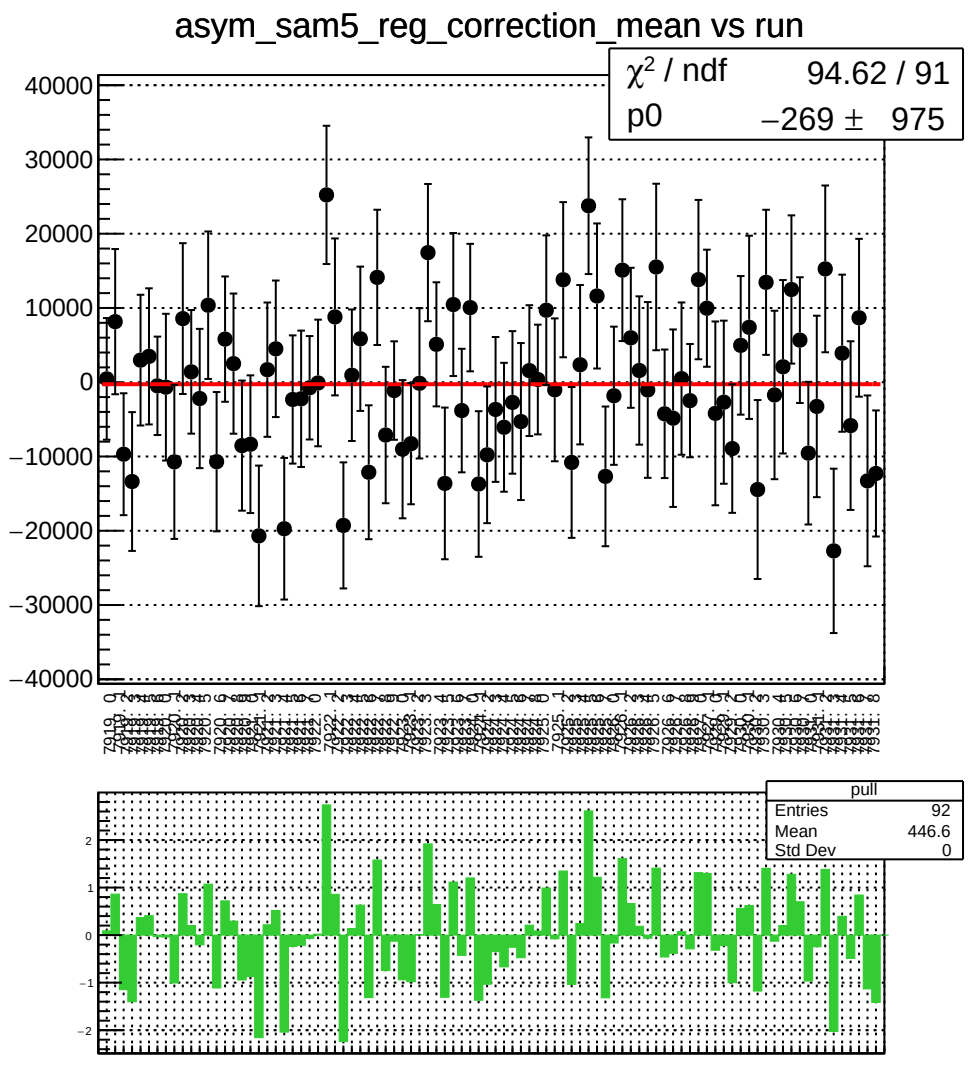

pull1D
Entries 92
Mean 0.02937
Std Dev 0.9367
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

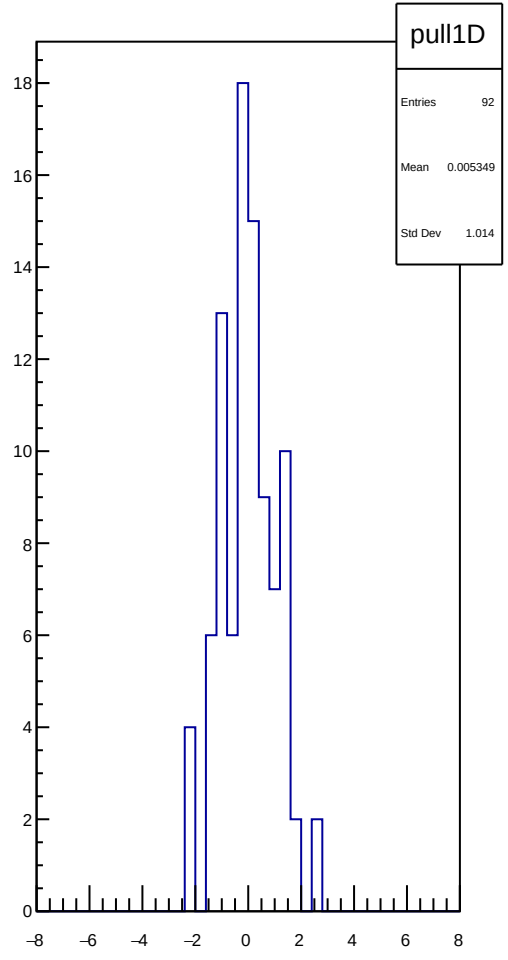

asym_sam4_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.849e+05 / 91
p0 2.631e−10 ± 2.945e−13
2.5
2
1.5
1
0.5


reg_asym_sam5_mean vs run
χ² / ndf 73.8 / 91
p0 70.56 ± 144.8
4000
2000
0
−2000
−4000
pull
Entries 92
Mean −127.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

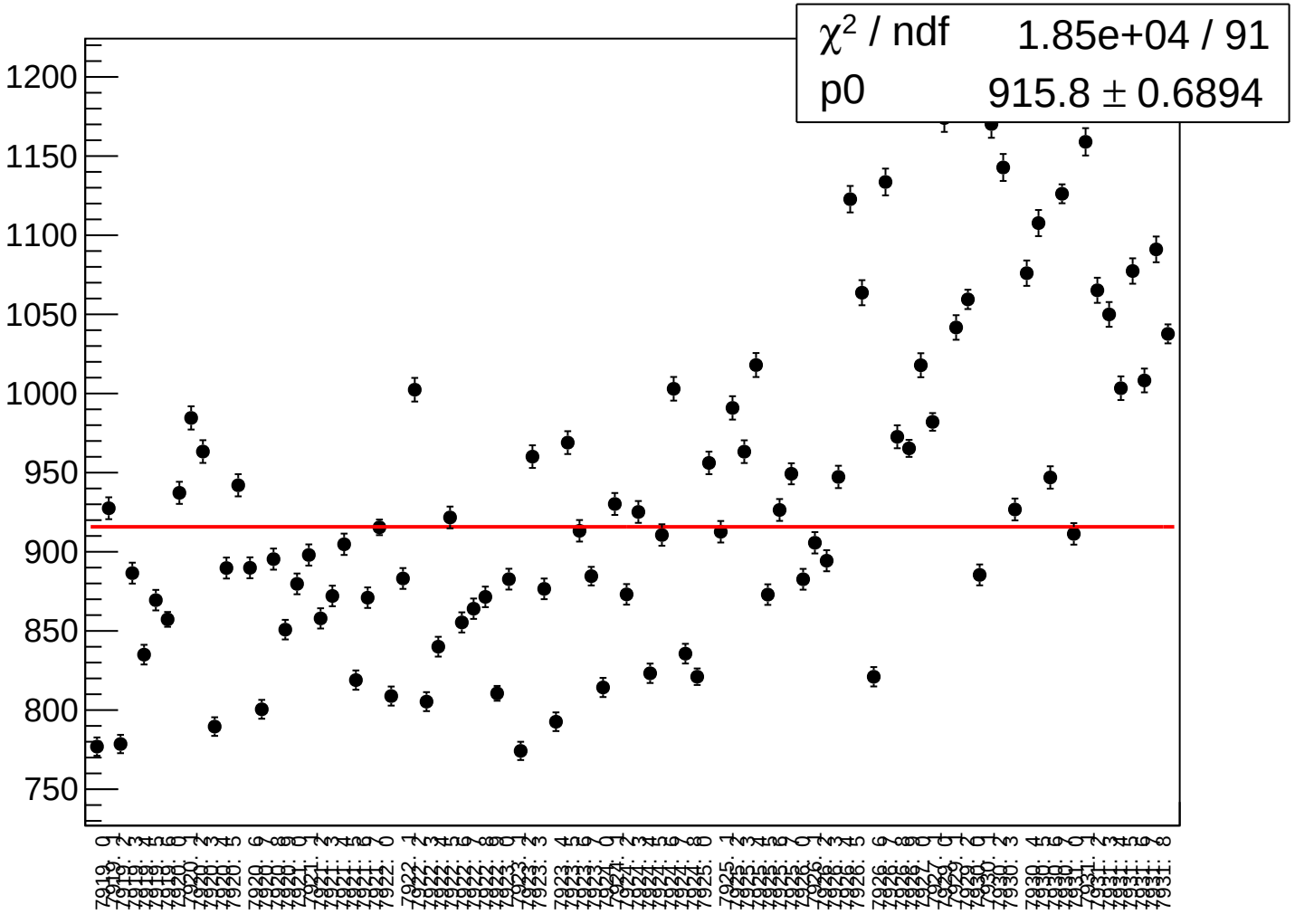

pull1D
Entries 92
Mean −0.008156
Std Dev 0.8956
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

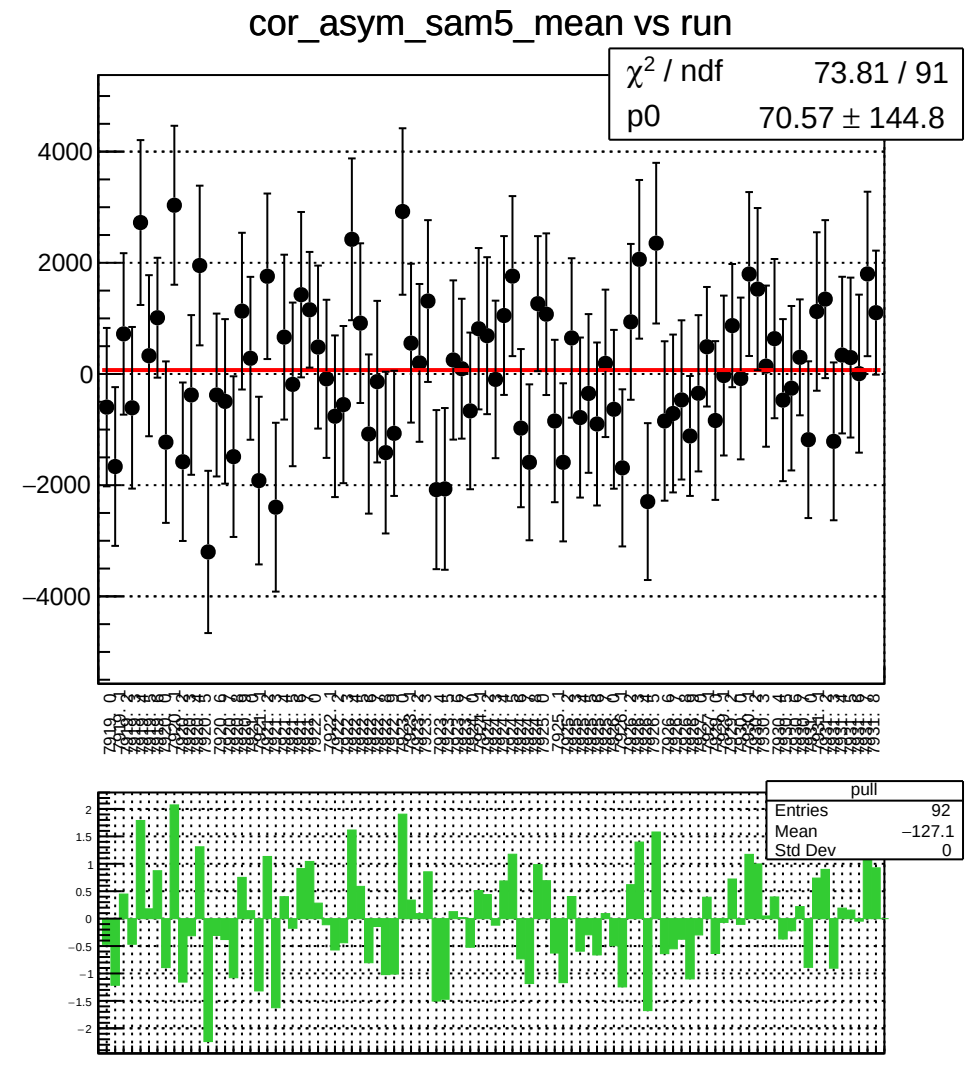

reg_asym_sam5_rms vs run
χ² / ndf 492 / 91
p0 136.7 ± 0.1024
146
144
142
140
138
136
134
132

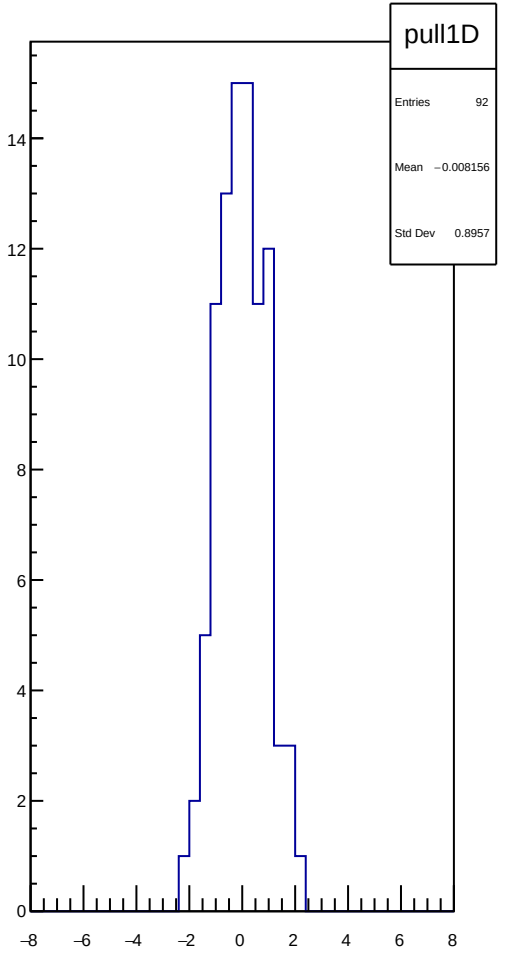

asym_sam5_reg_correction_mean vs run
χ² / ndf 94.62 / 91
p0 −269 ± 975
pull
Entries 92
Mean 446.6
Std Dev 0

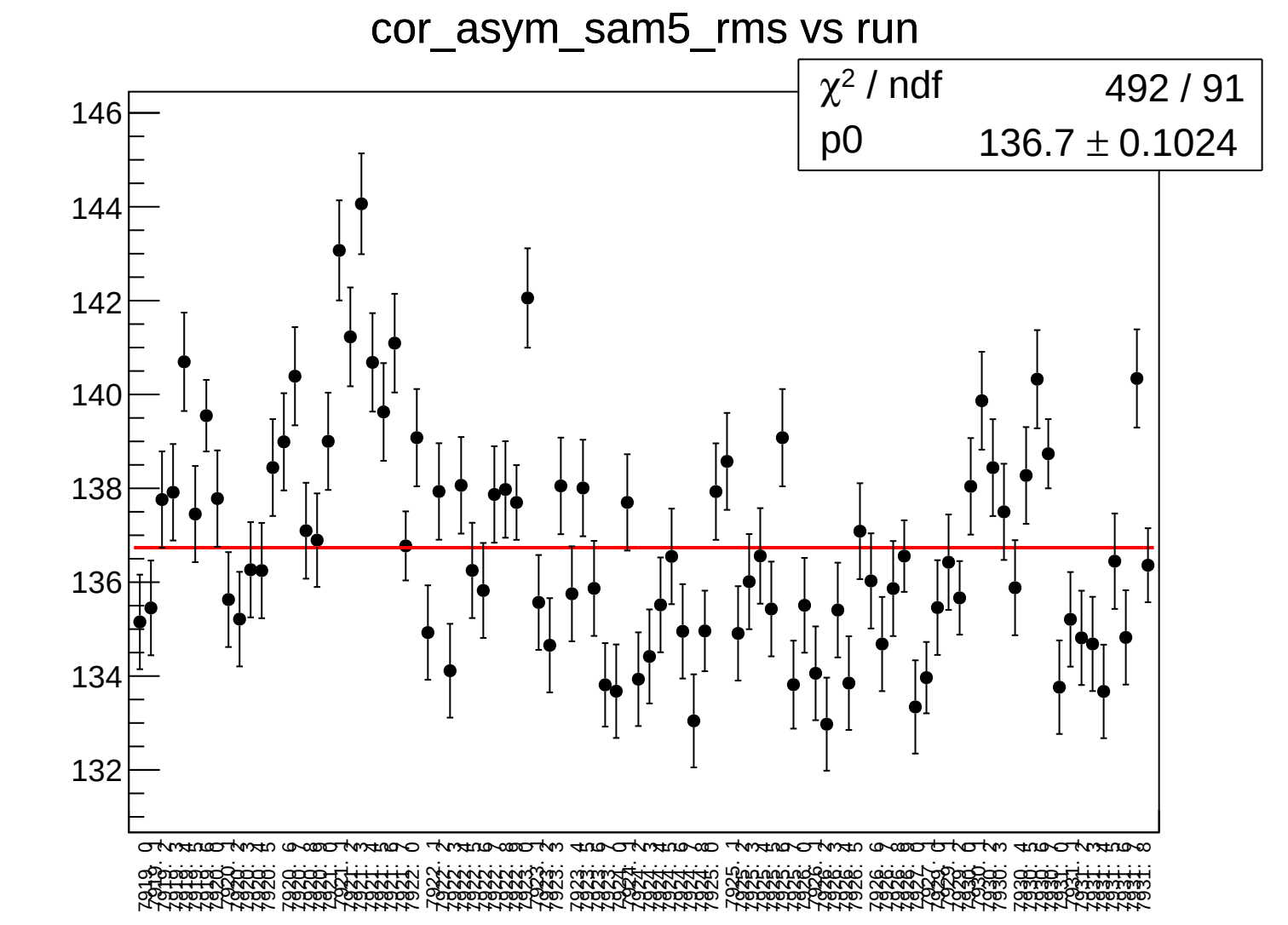

pull1D
Entries 92
Mean 0.005349
Std Dev 1.014

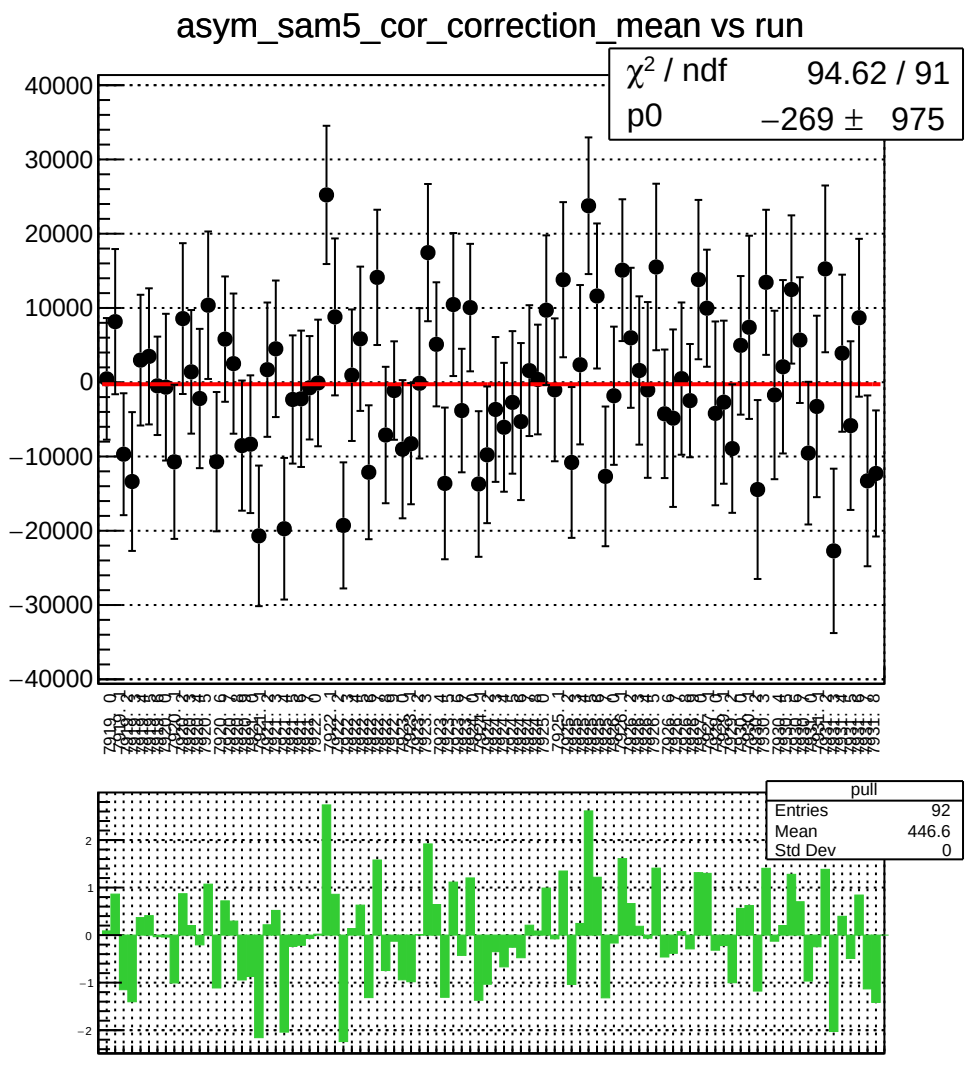
asym_sam5_reg_correction_rms vs run

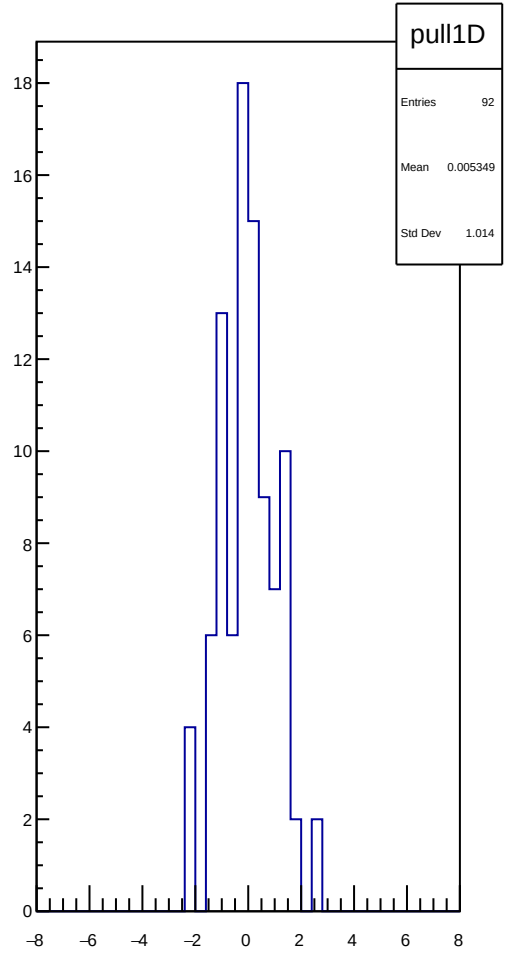


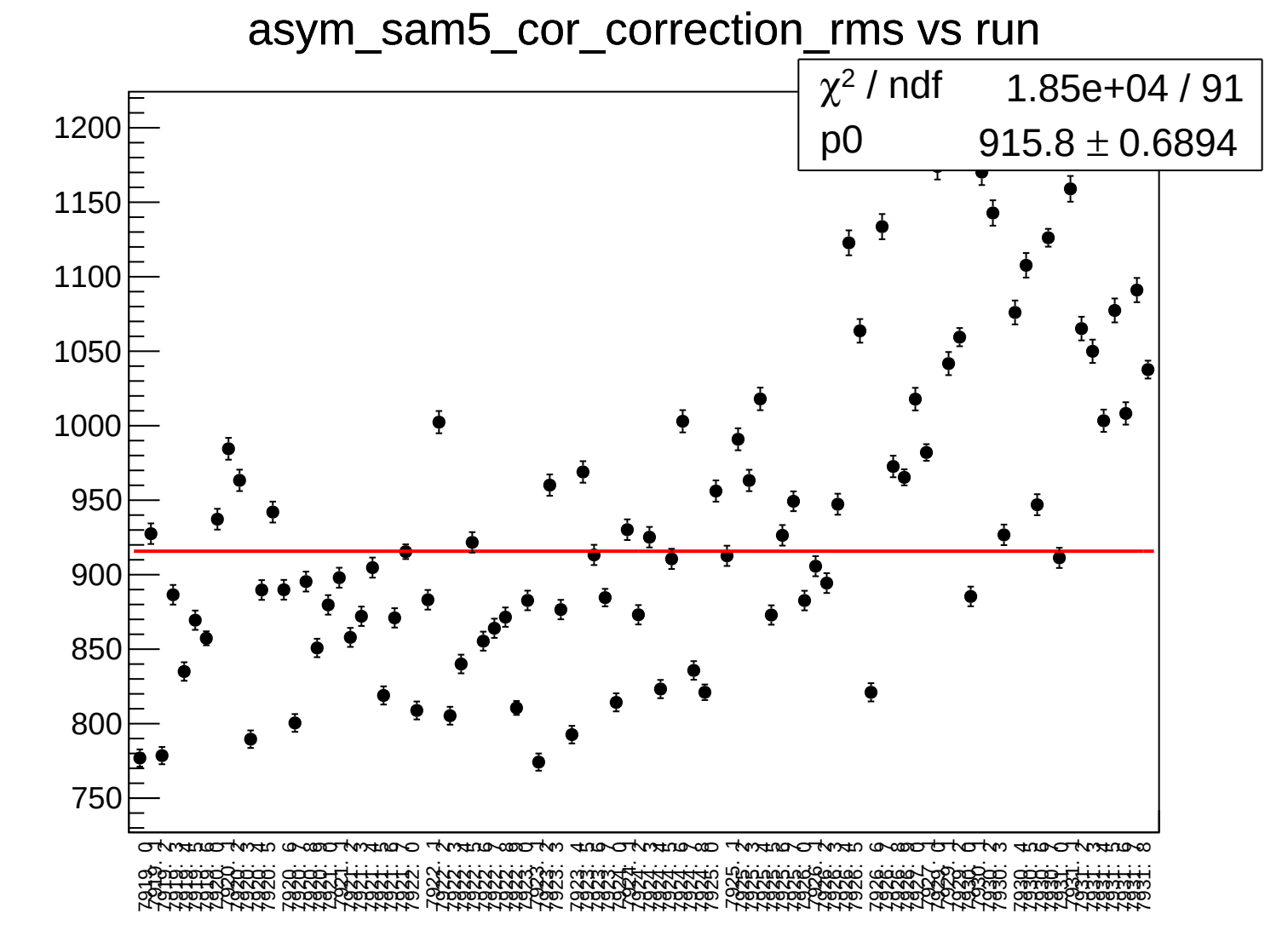

cor_asym_sam5_mean vs run
χ² / ndf 73.81 / 91
p0 70.57 ± 144.8
4000
2000
0
−2000
−4000
pull
Entries 92
Mean −127.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

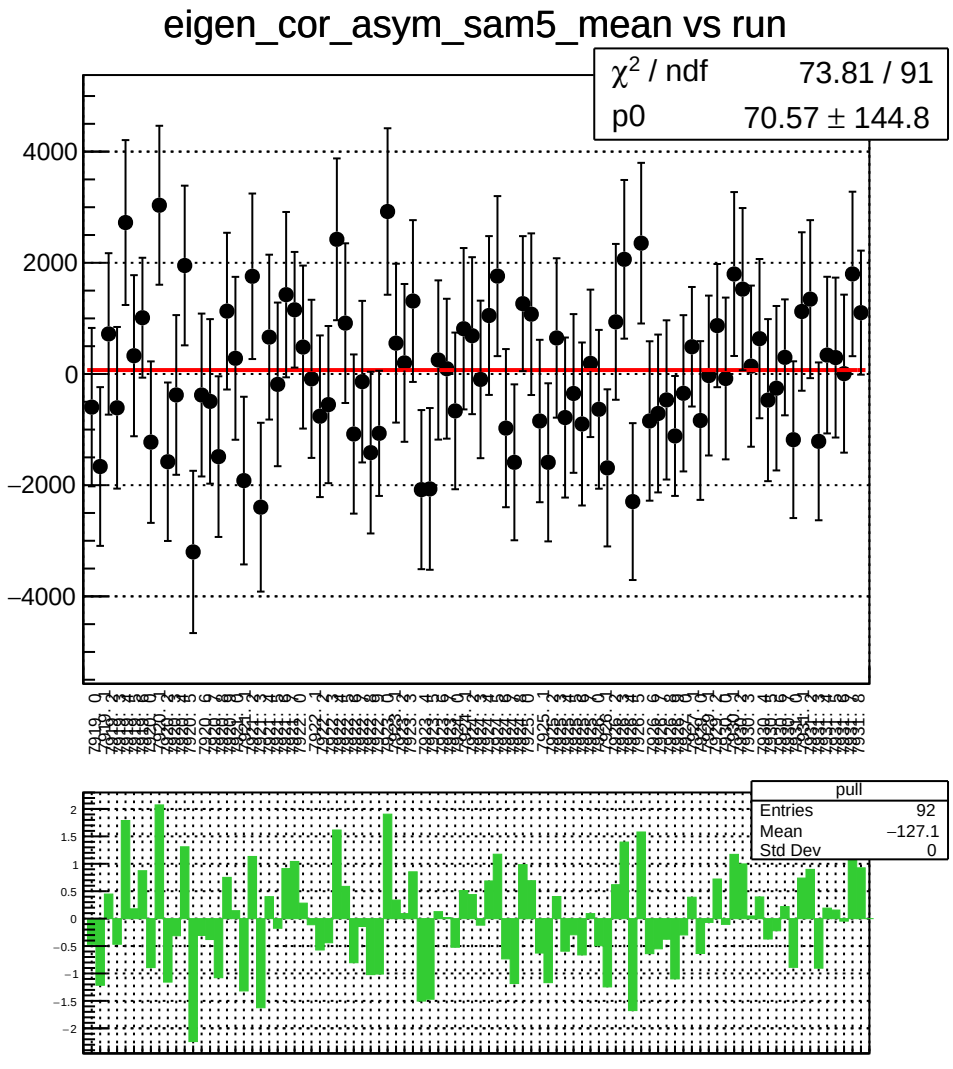

pull1D
Entries 92
Mean −0.008156
Std Dev 0.8957
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

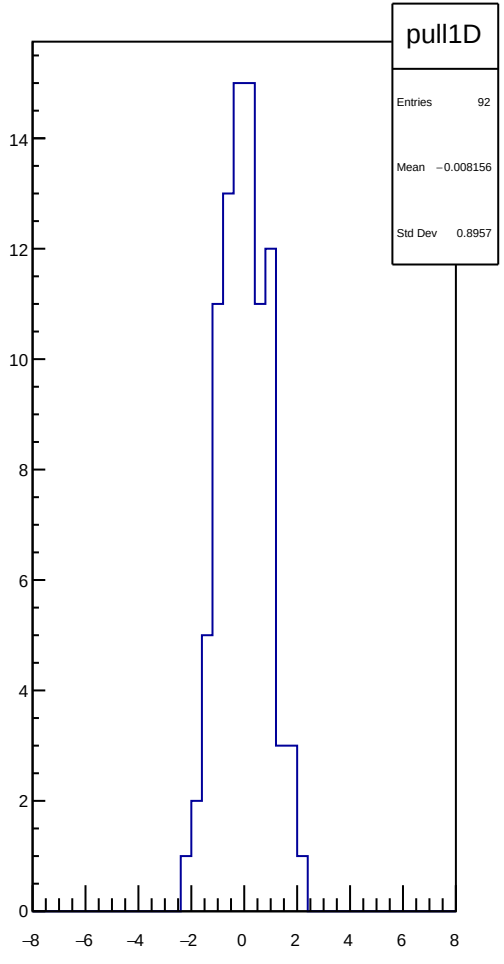

cor_asym_sam5_rms vs run
χ^2 / ndf 492 / 91
p0 136.7 ± 0.1024
146
144
142
140
138
136
134
132

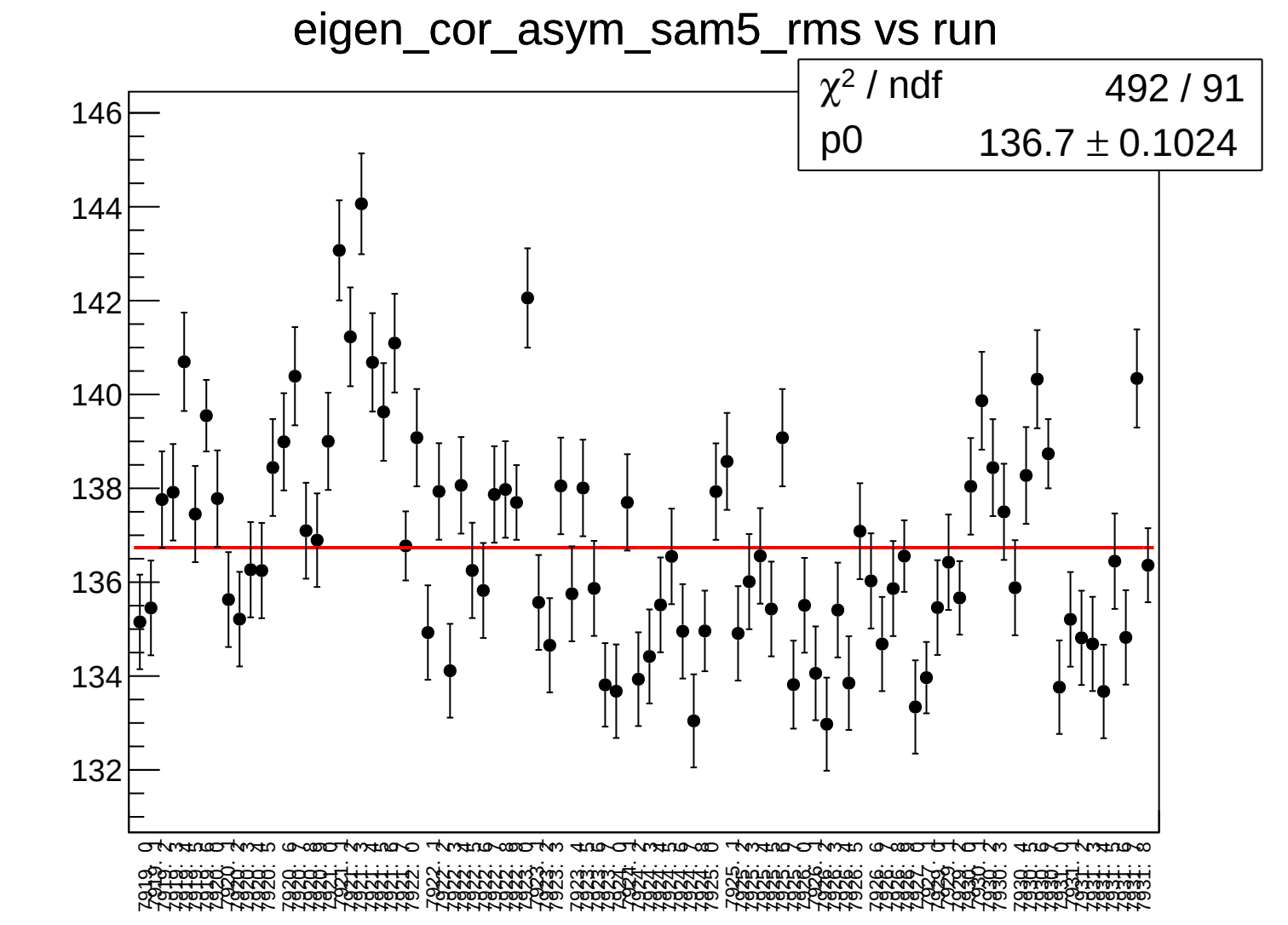

asym_sam5_cor_correction_mean vs run
χ² / ndf 94.62 / 91
p0 −269 ± 975
pull
Entries 92
Mean 446.6
Std Dev 0

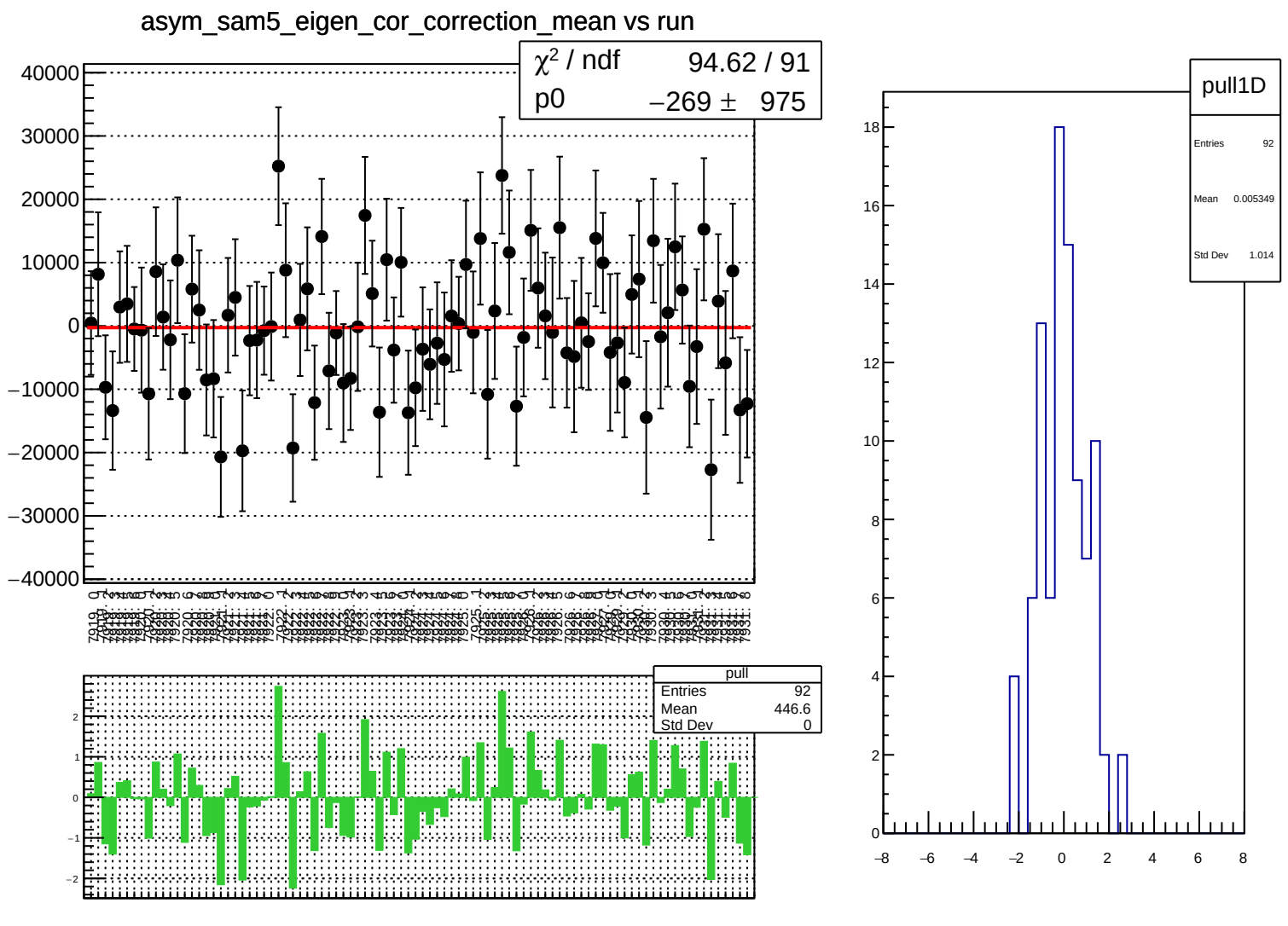

pull1D
Entries 92
Mean 0.005349
Std Dev 1.014

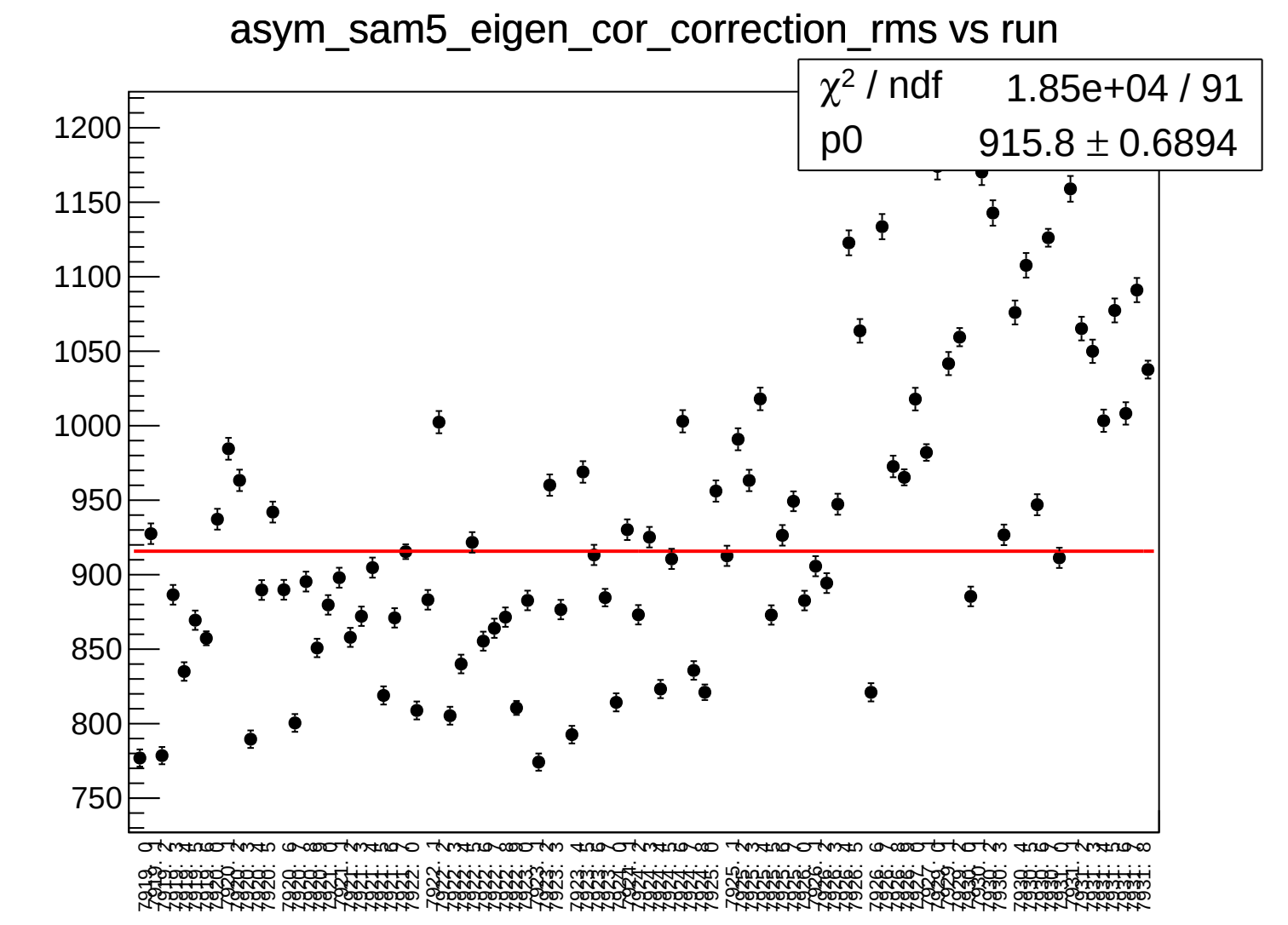

asym_sam5_cor_correction_rms vs run
χ² / ndf 1.85e+04 / 91
p0 915.8 ± 0.6894
1200
1150
1100
1050
1000
950
900
850
800
750

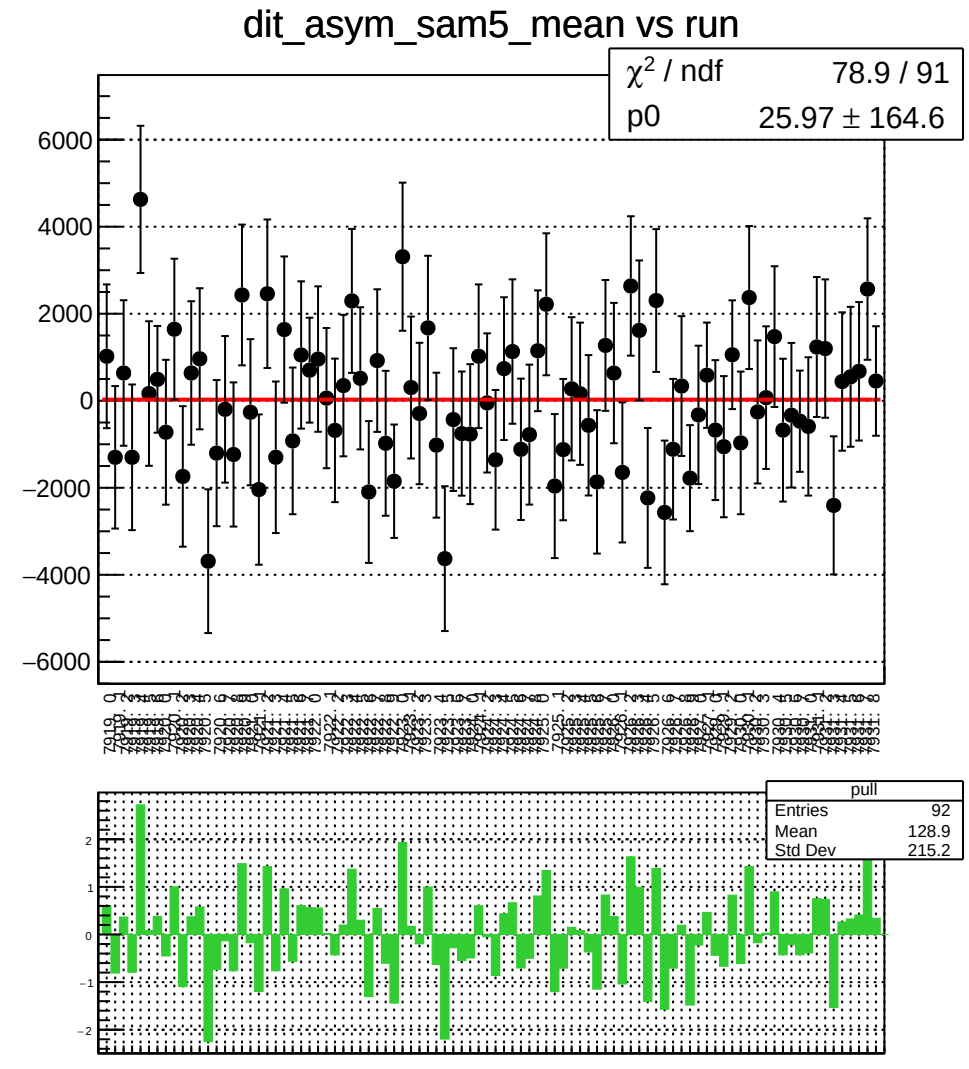

eigen_cor_asym_sam5_mean vs run
χ² / ndf 73.81 / 91
p0 70.57 ± 144.8
4000
2000
0
−2000
−4000
pull
Entries 92
Mean −127.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

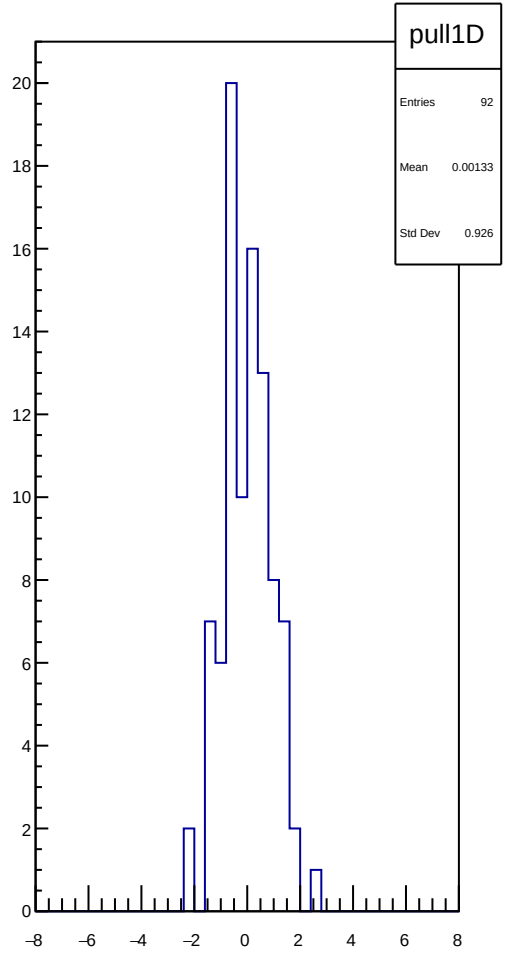

pull1D
Entries 92
Mean −0.008156
Std Dev 0.8957
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

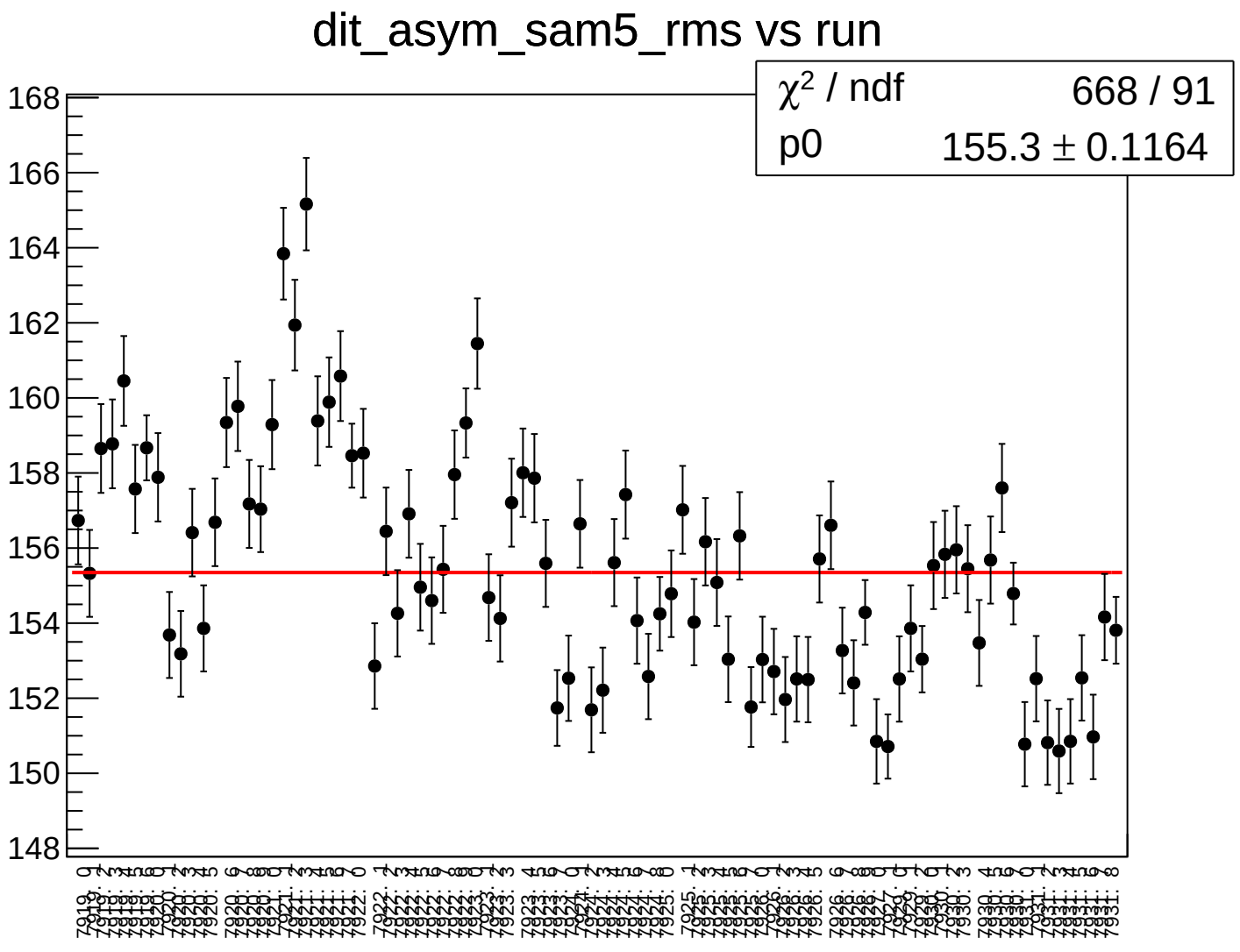

eigen_cor_asym_sam5_rms vs run
χ² / ndf 492 / 91
p0 136.7 ± 0.1024
146
144
142
140
138
136
134
132

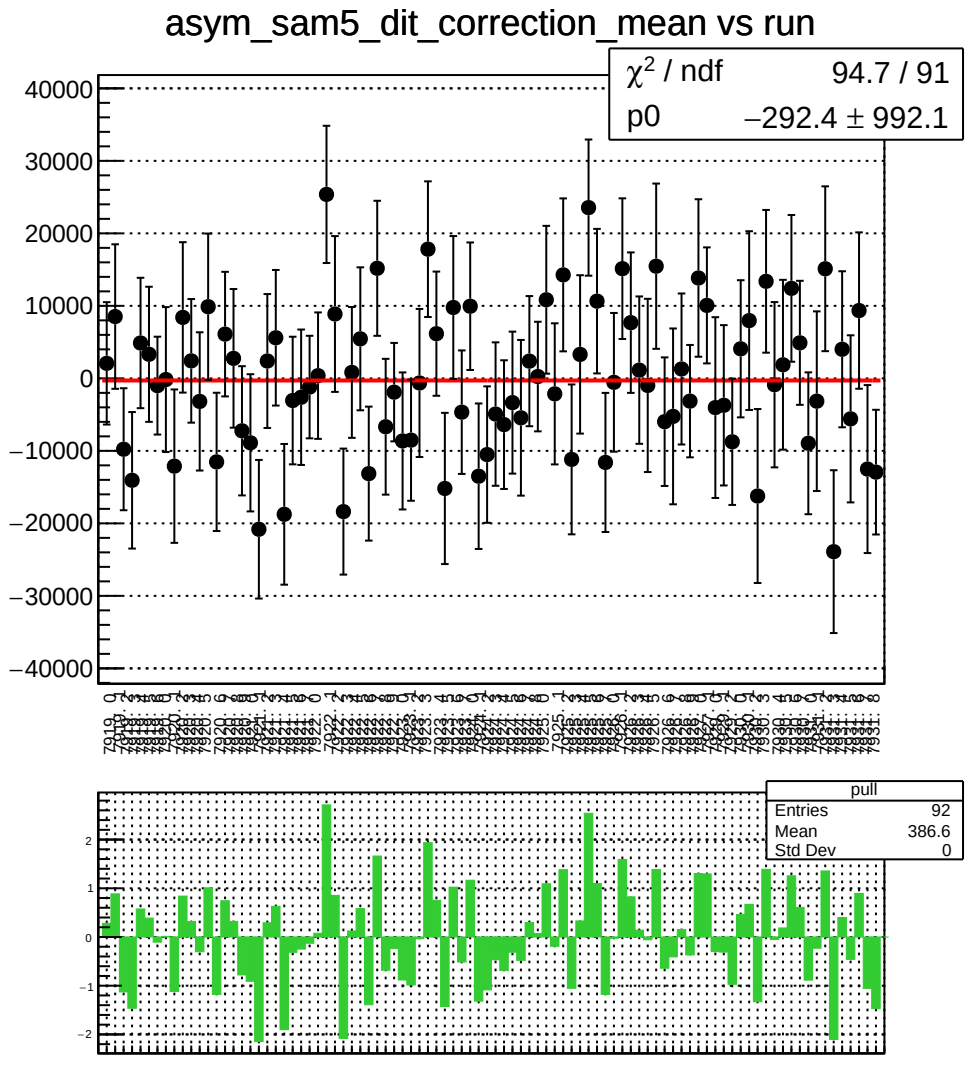

asym_sam5_eigen_cor_correction_mean vs run
χ² / ndf 94.62 / 91
p0 −269 ± 975
pull
Entries 92
Mean 446.6
Std Dev 0
pull1D
Entries 92
Mean 0.005349
Std Dev 1.014

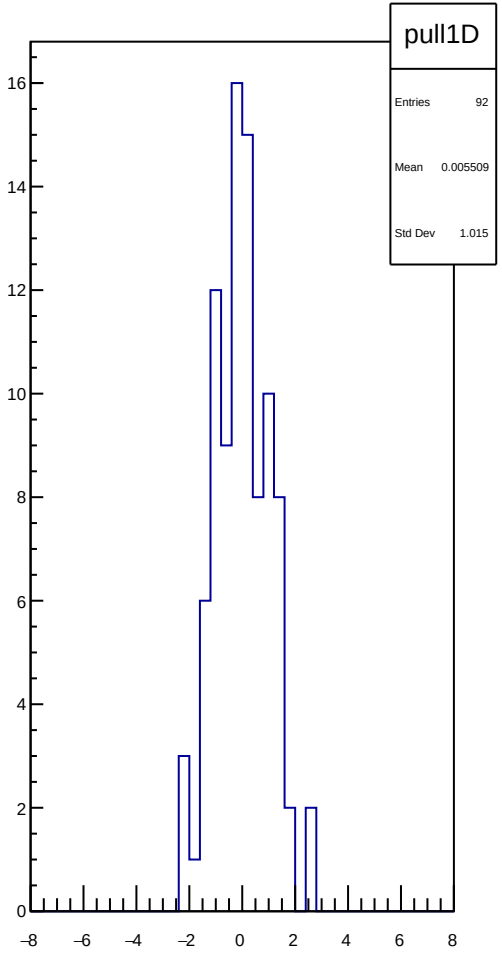

asym_sam5_eigen_cor_correction_rms vs run
χ² / ndf 1.85e+04 / 91
p0 915.8 ± 0.6894
1200
1150
1100
1050
1000
950
900
850
800
750

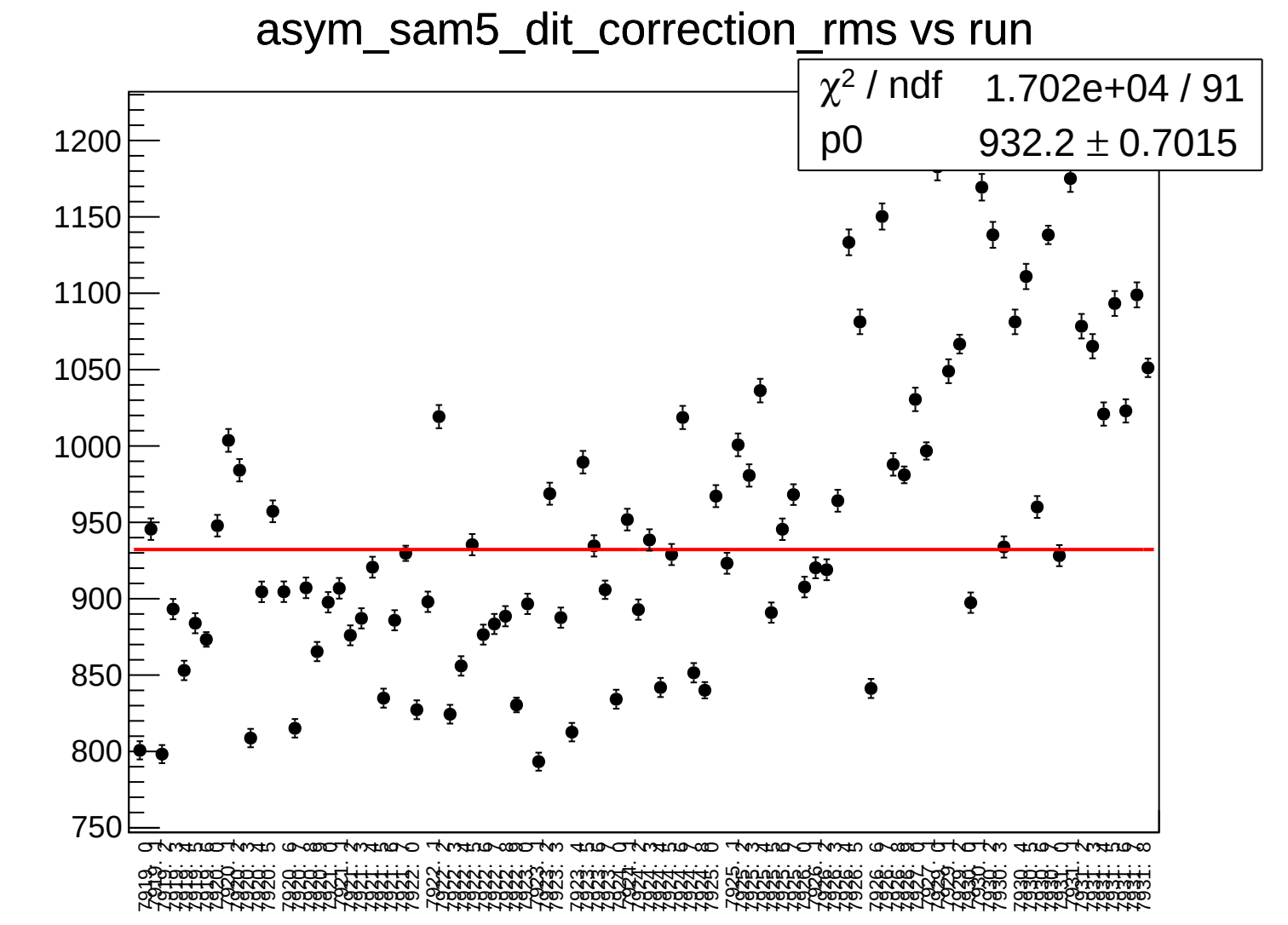

dit_asym_sam5_mean vs run
χ^2 / ndf 78.9 / 91
p0 25.97 ± 164.6
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 92
Mean 128.9
Std Dev 215.2
2
1
0
−1
−2

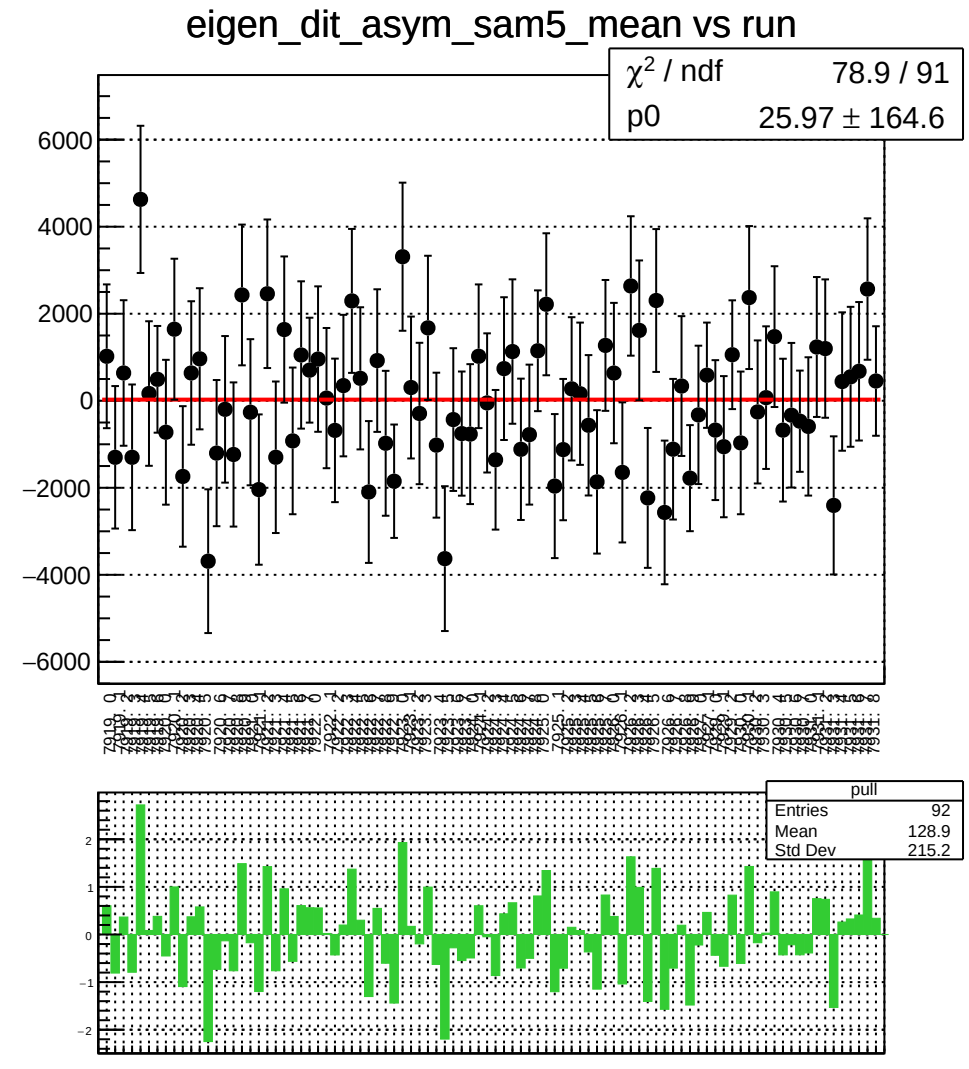

pull1D
Entries 92
Mean 0.00133
Std Dev 0.926
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

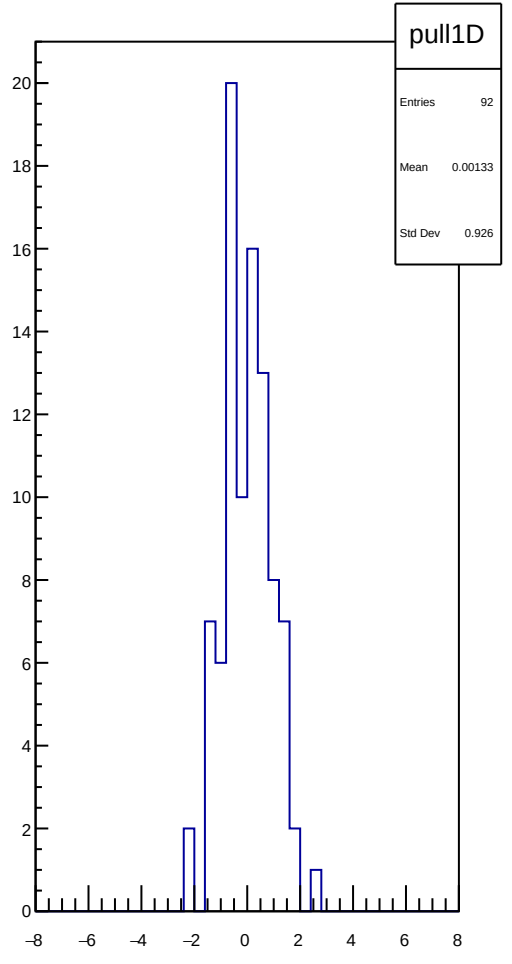

dit_asym_sam5_rms vs run
χ² / ndf 668 / 91
p0 155.3 ± 0.1164
168
166
164
162
160
158
156
154
152
150
148

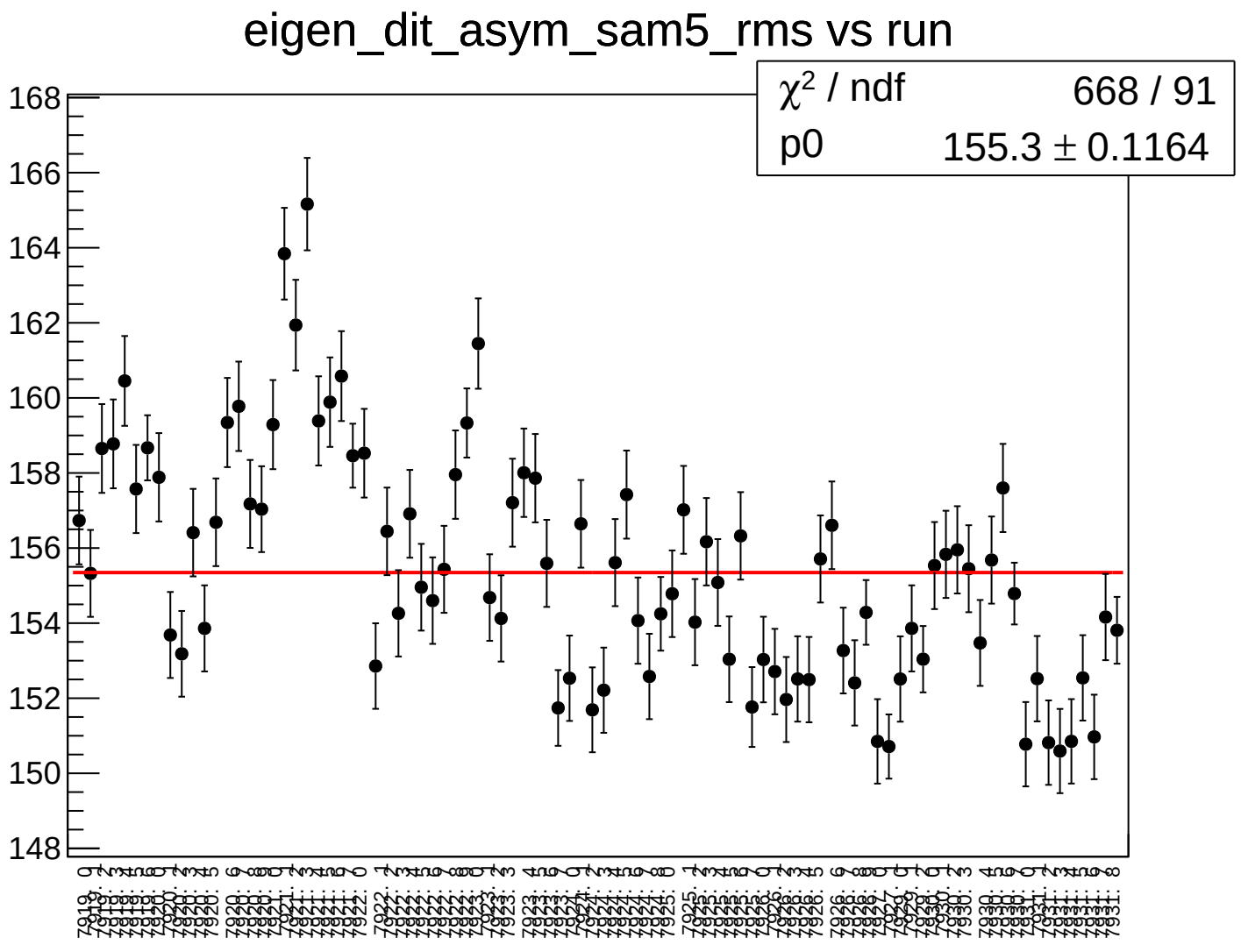

asym_sam5_dit_correction_mean vs run
χ² / ndf 94.7 / 91
p0 −292.4 ± 992.1
pull
Entries 92
Mean 386.6
Std Dev 0

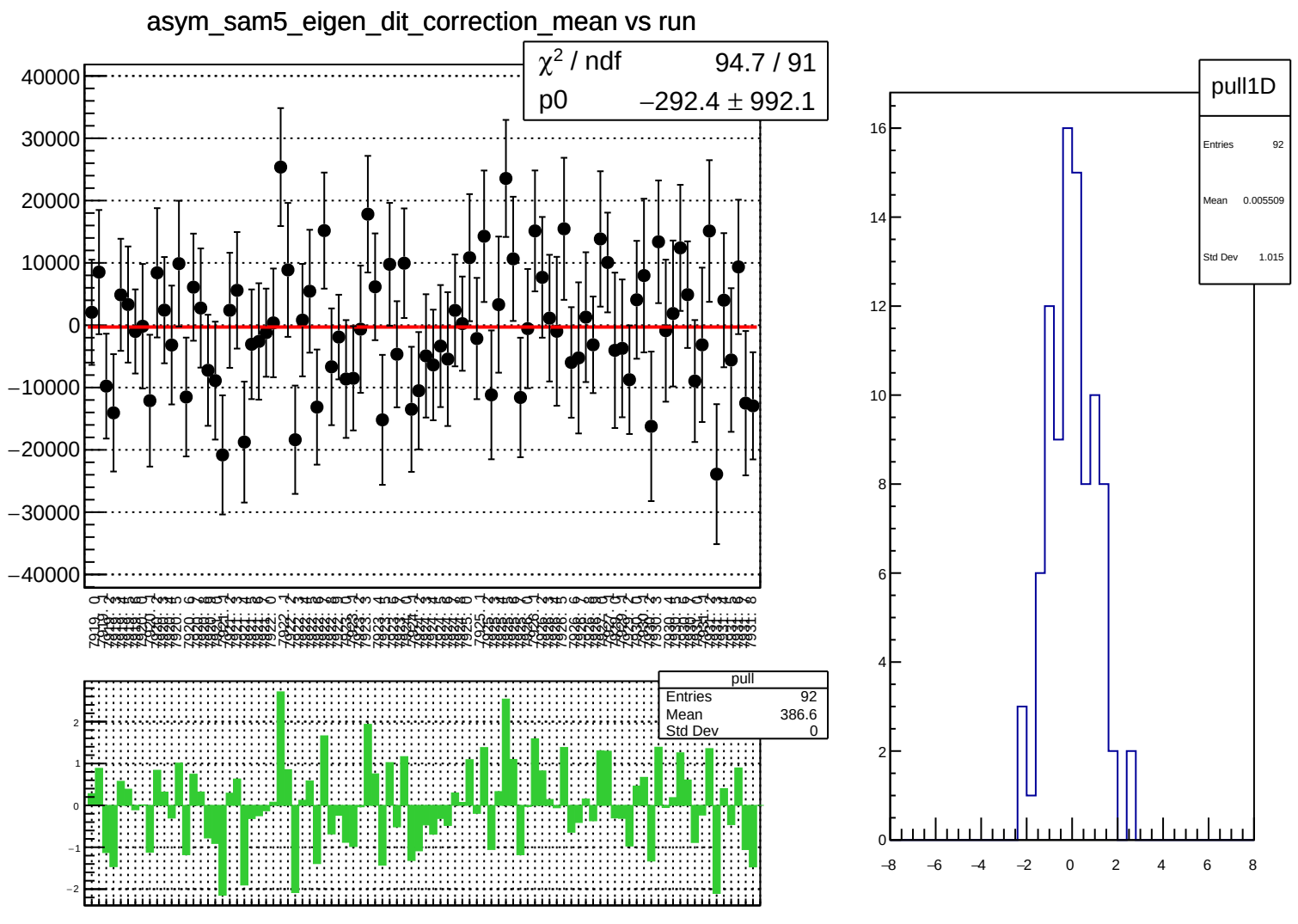

pull1D
Entries 92
Mean 0.005509
Std Dev 1.015

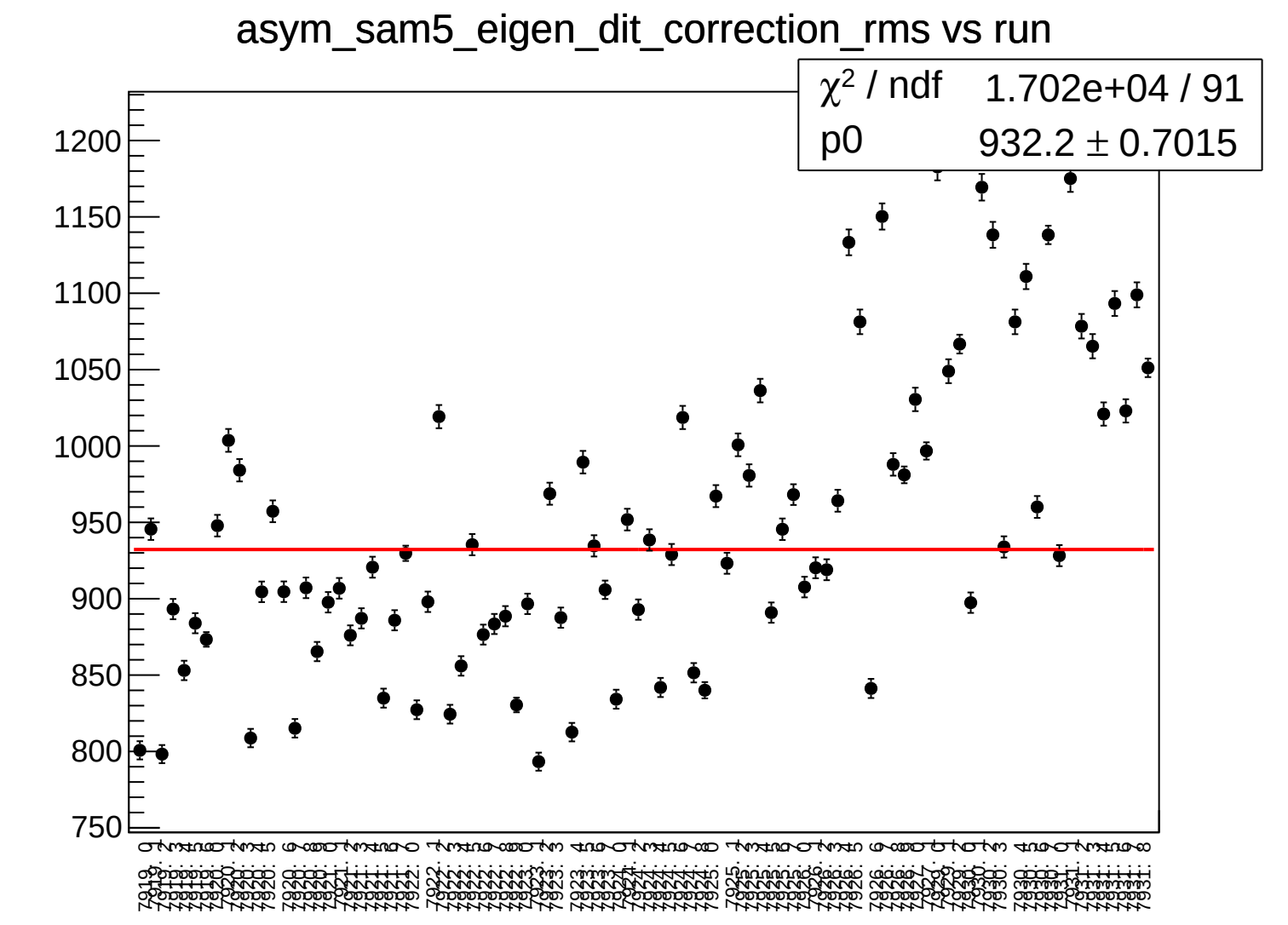

asym_sam5_dit_correction_rms vs run
χ² / ndf 1.702e+04 / 91
p0 932.2 ± 0.7015
1200
1150
1100
1050
1000
950
900
850
800
750

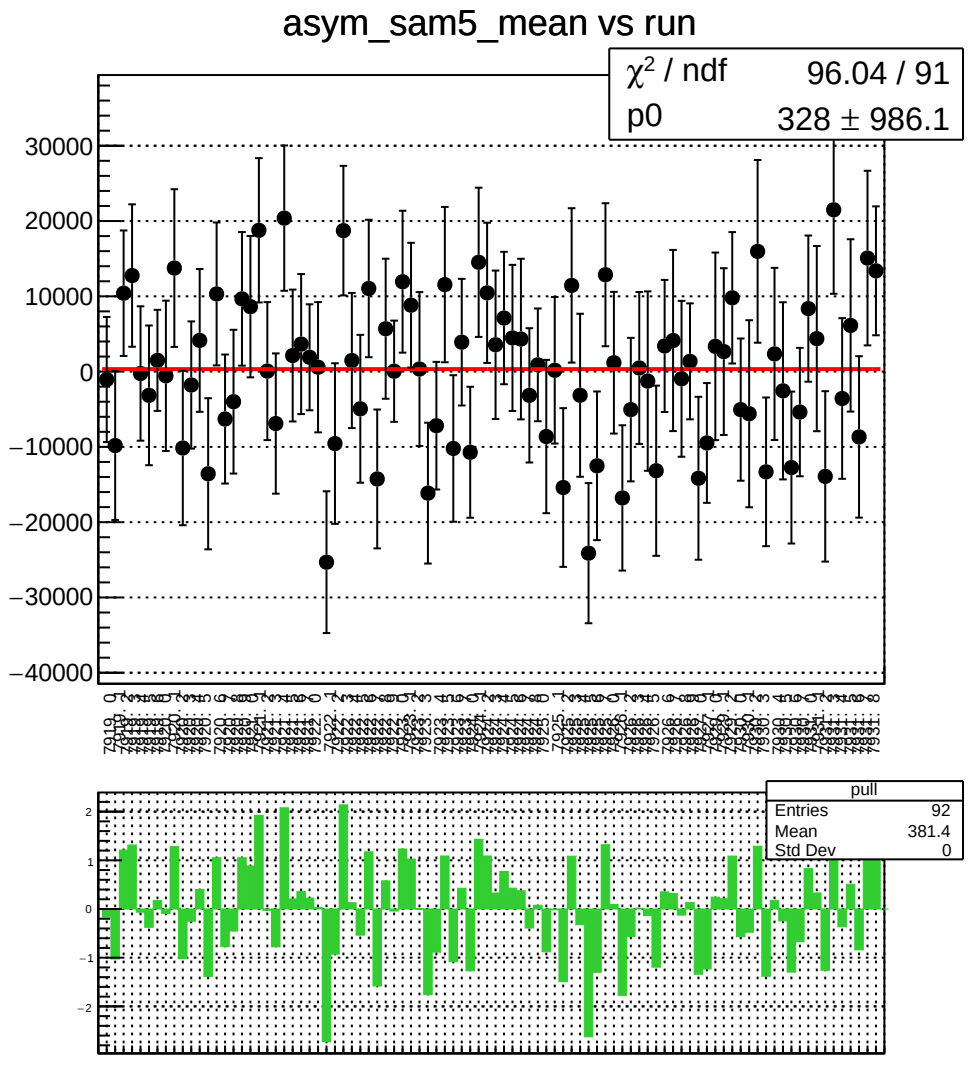

eigen_dit_asym_sam5_mean vs run
χ^2 / ndf 78.9 / 91
p0 25.97 ± 164.6
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 92
Mean 128.9
Std Dev 215.2
2
1
0
−1
−2

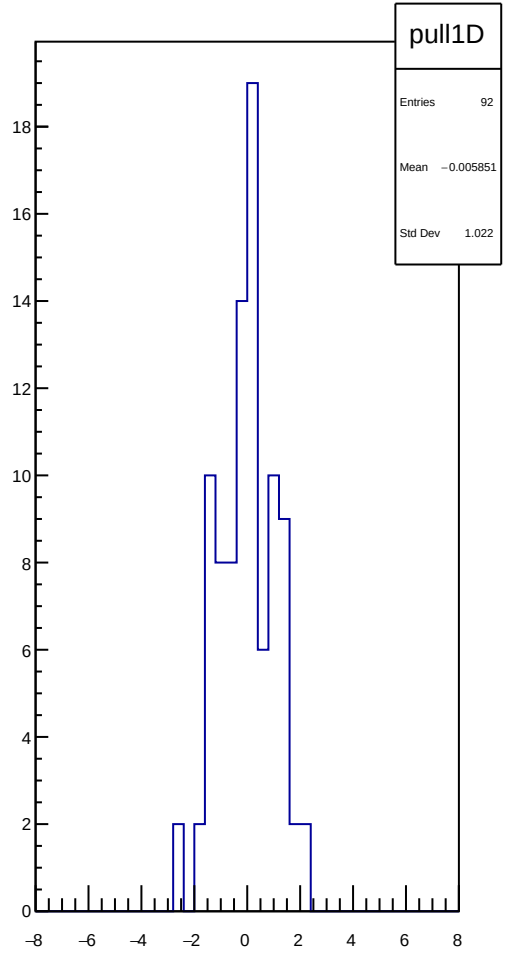

pull1D
Entries 92
Mean 0.00133
Std Dev 0.926
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

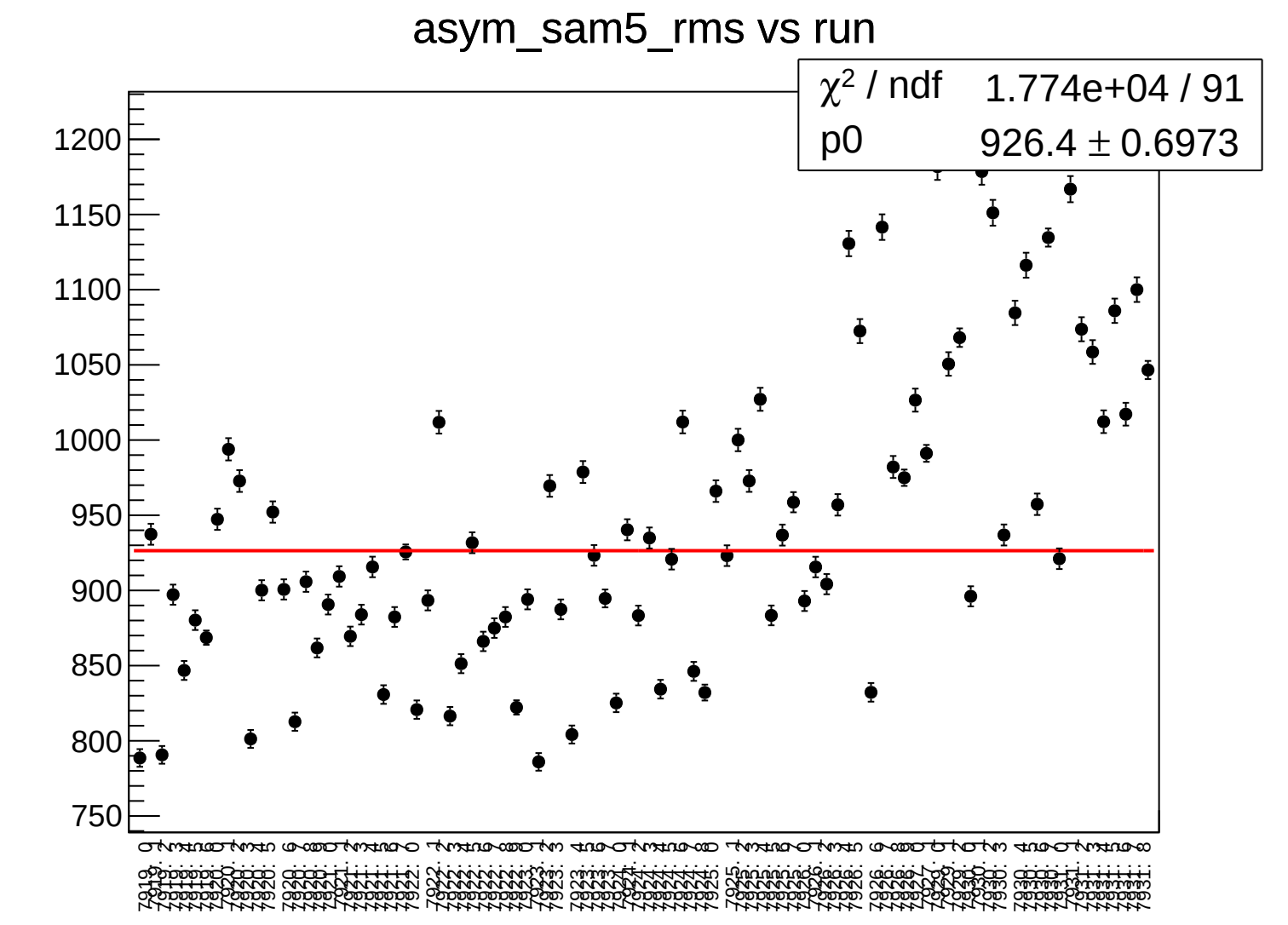

eigen_dit_asym_sam5_rms vs run
χ² / ndf 668 / 91
p0 155.3 ± 0.1164
168
166
164
162
160
158
156
154
152
150
148

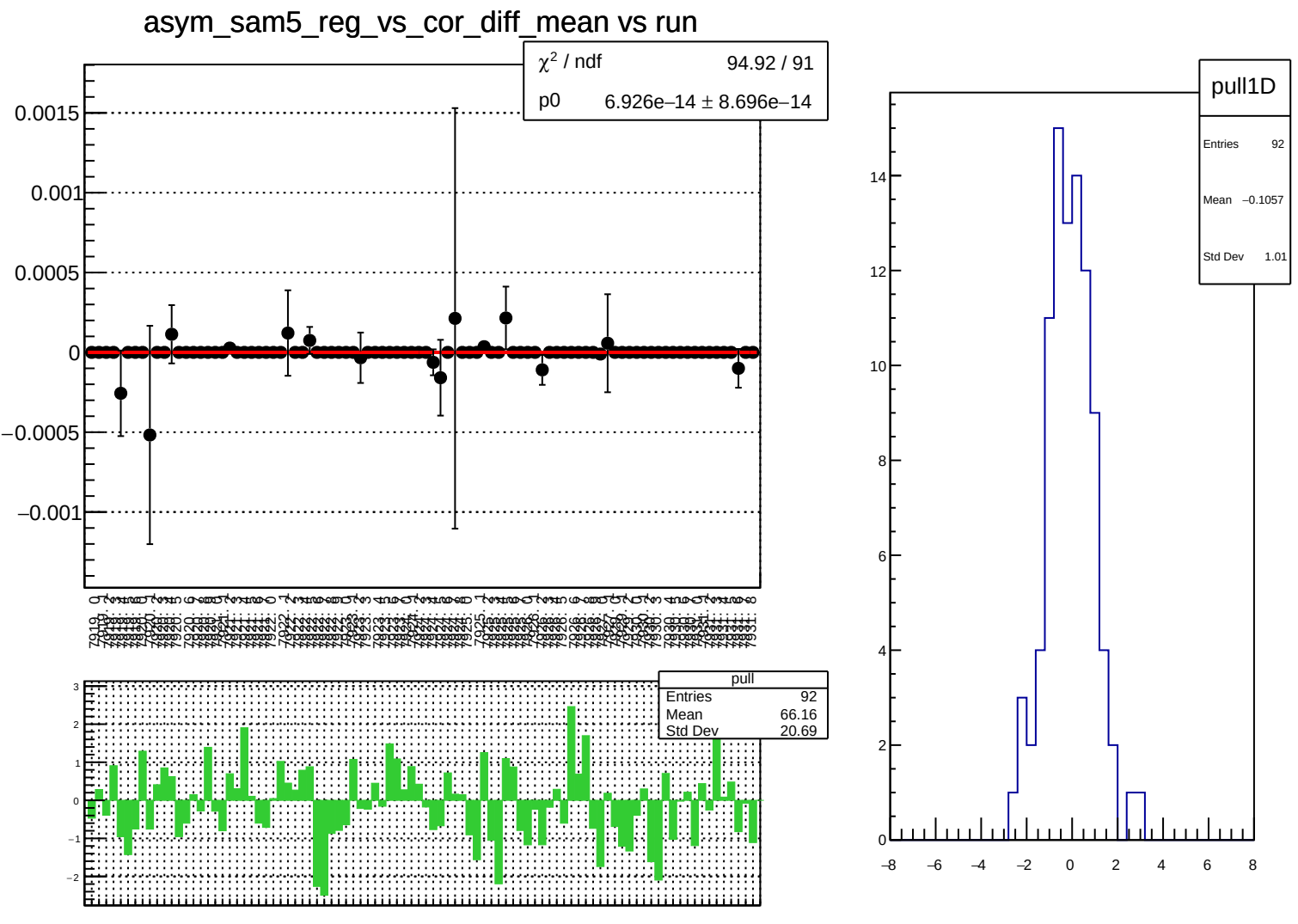

asym_sam5_eigen_dit_correction_mean vs run
χ² / ndf 94.7 / 91
p0 −292.4 ± 992.1
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 92
Mean 386.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.005509
Std Dev 1.015
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

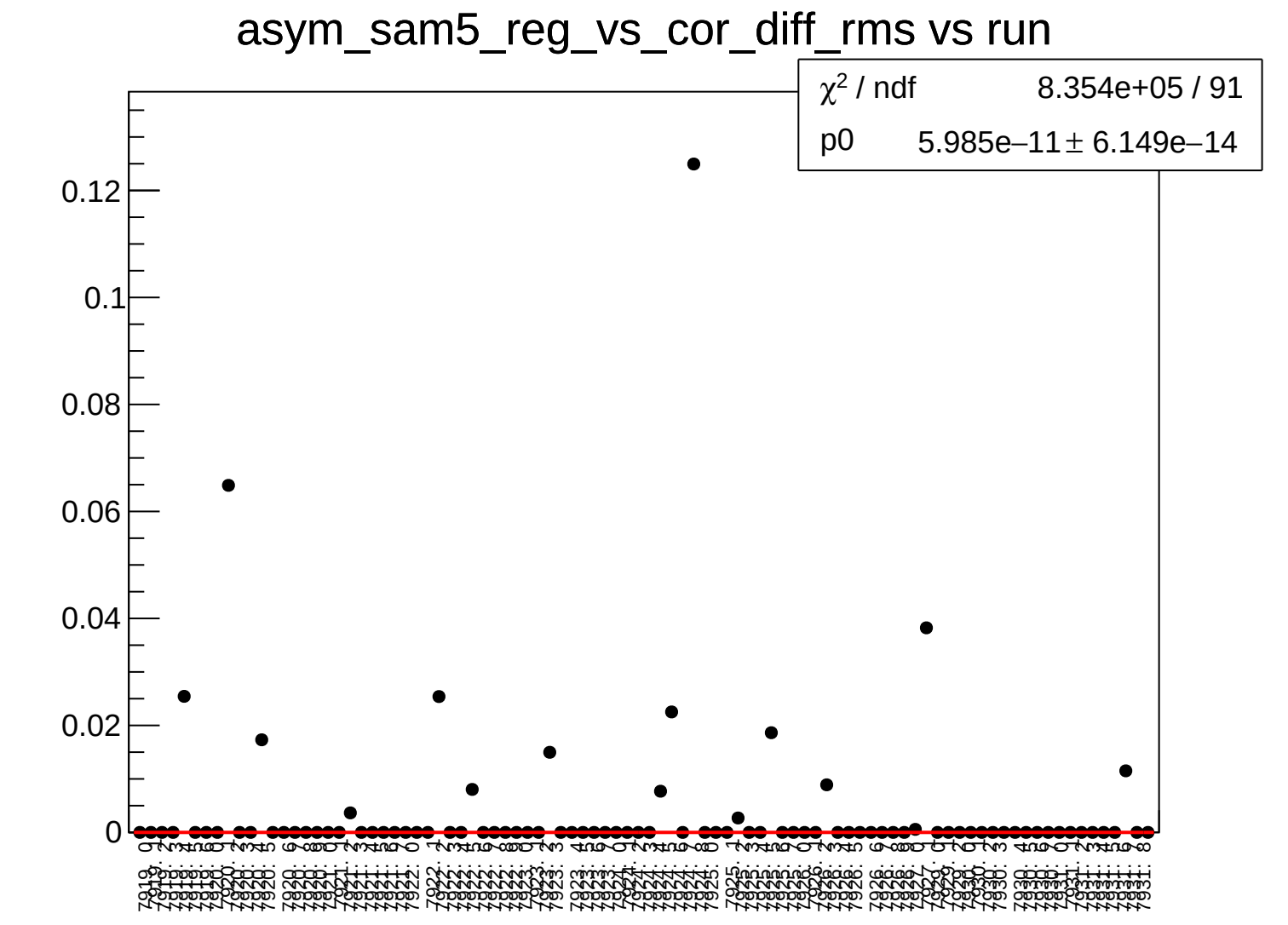

asym_sam5_eigen_dit_correction_rms vs run
χ² / ndf 1.702e+04 / 91
p0 932.2 ± 0.7015
1200
1150
1100
1050
1000
950
900
850
800
750

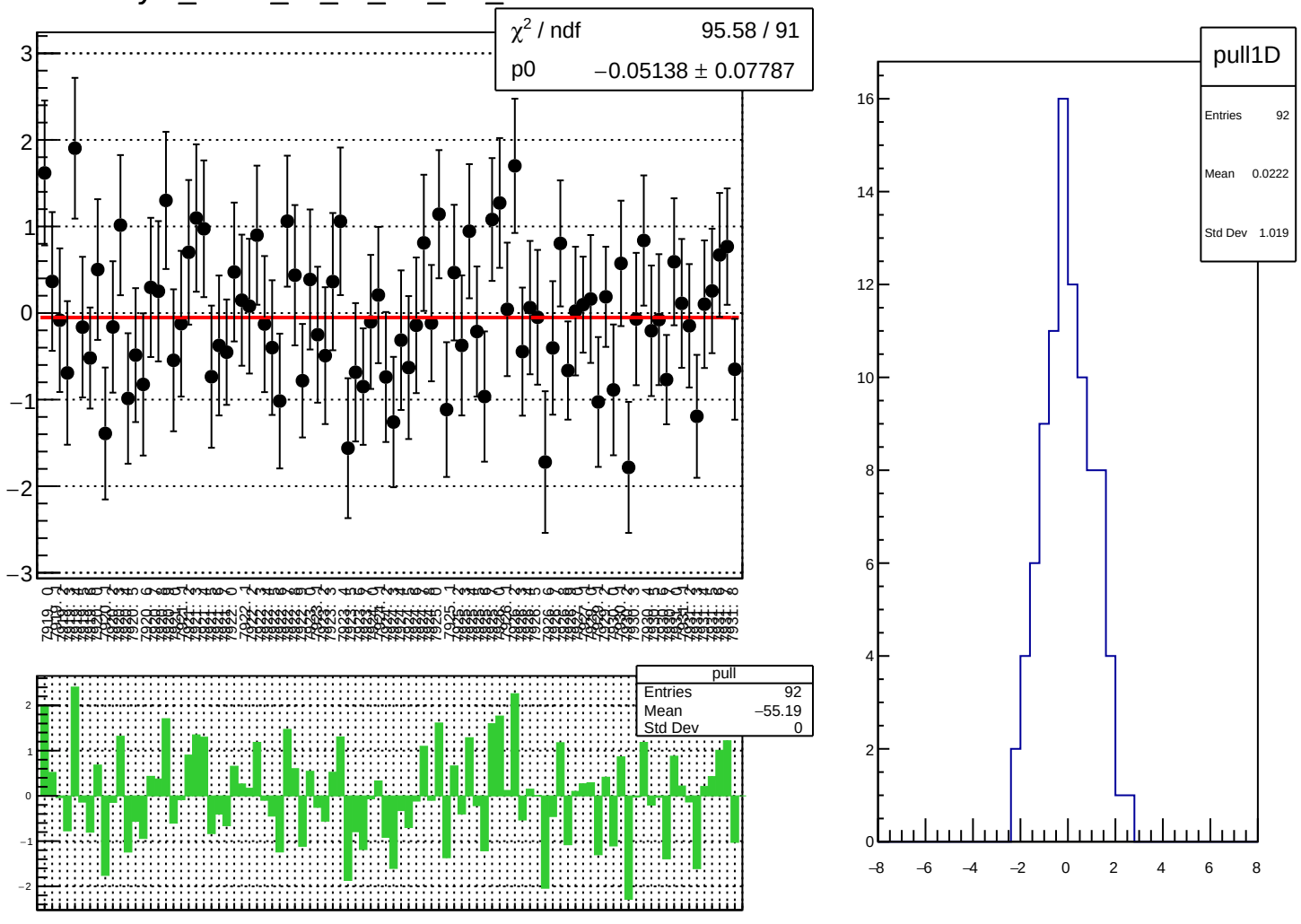

asym_sam5_mean vs run
χ² / ndf 96.04 / 91
p0 328 ± 986.1
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 92
Mean 381.4
Std Dev 0
2
1
0
−1
−2

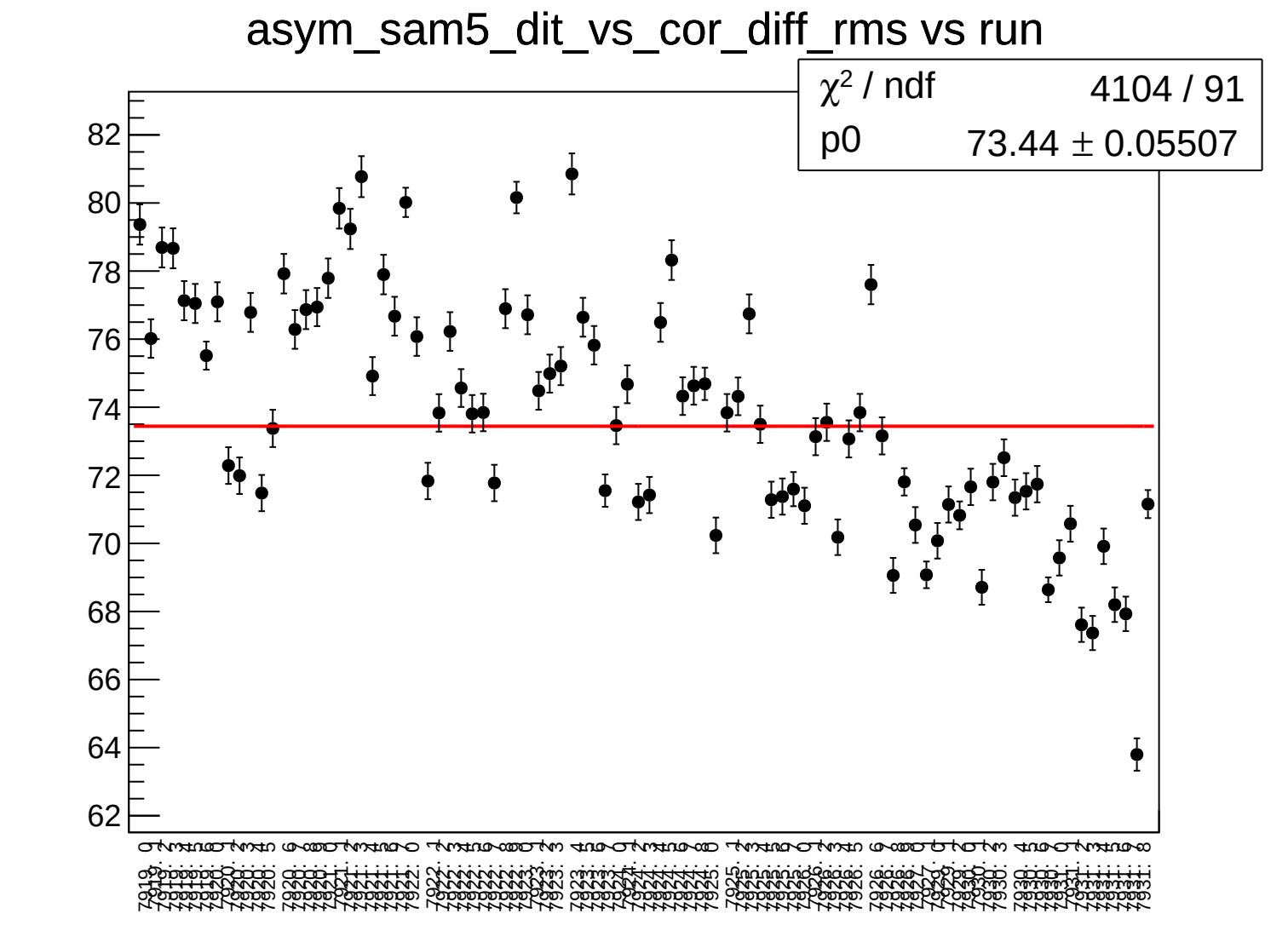

pull1D
Entries 92
Mean −0.005851
Std Dev 1.022
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

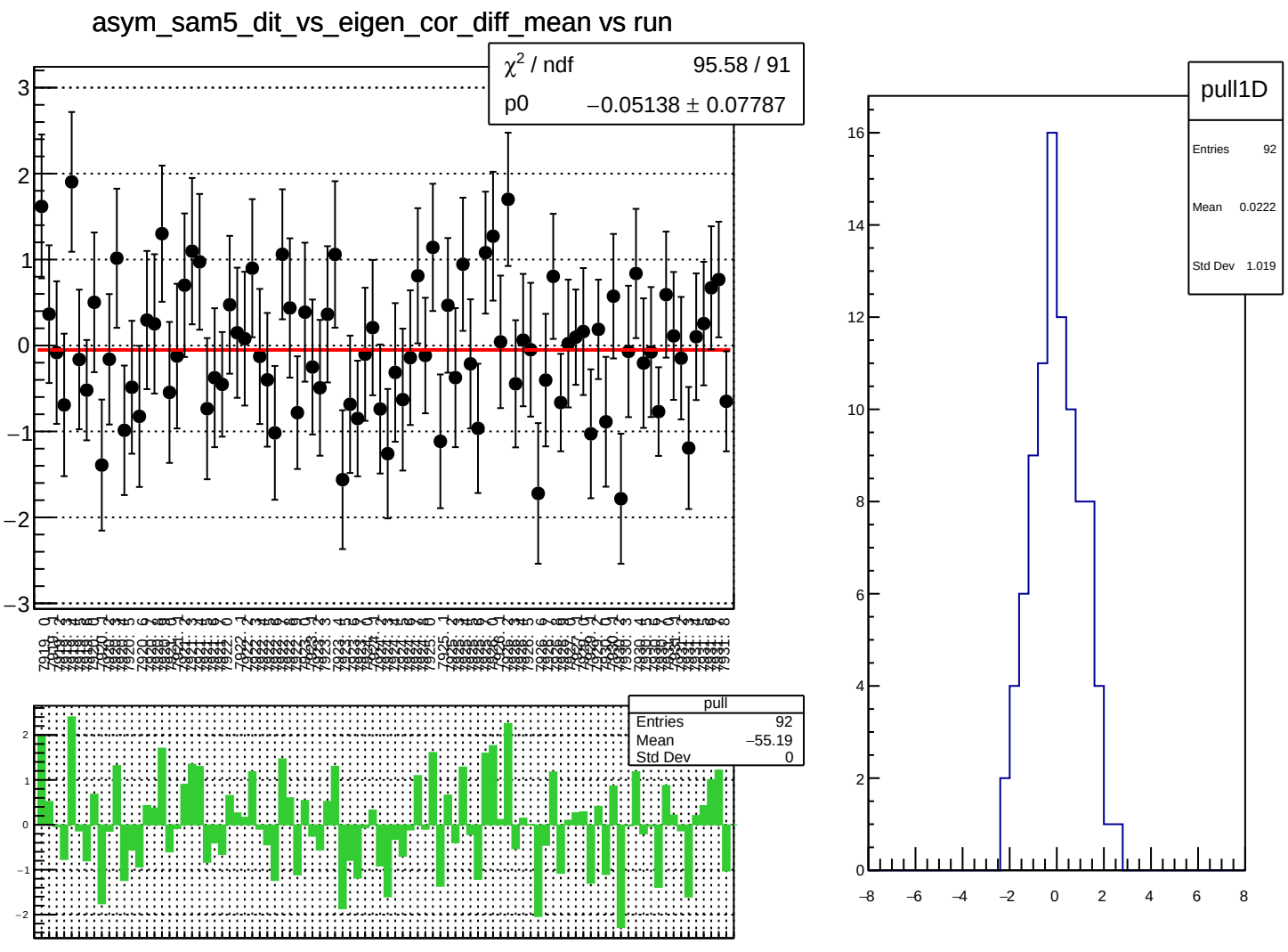

asym_sam5_rms vs run
χ² / ndf 1.774e+04 / 91
p0 926.4 ± 0.6973
1200
1150
1100
1050
1000
950
900
850
800
750

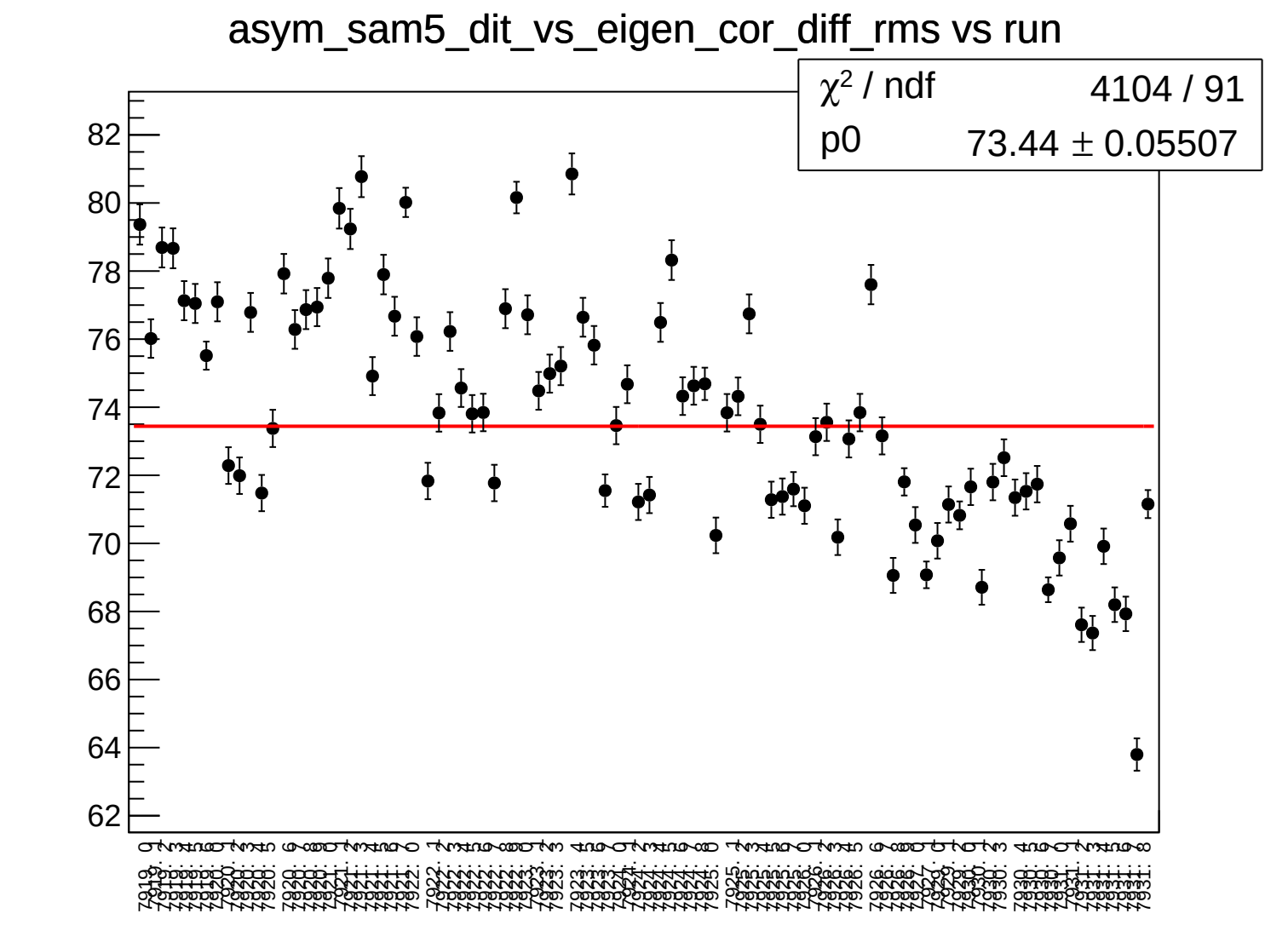

asym_sam5_reg_vs_cor_diff_mean vs run
χ² / ndf 94.92 / 91
p0 6.926e−14 ± 8.696e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 92
Mean 66.16
Std Dev 20.69
pull1D
Entries 92
Mean −0.1057
Std Dev 1.01

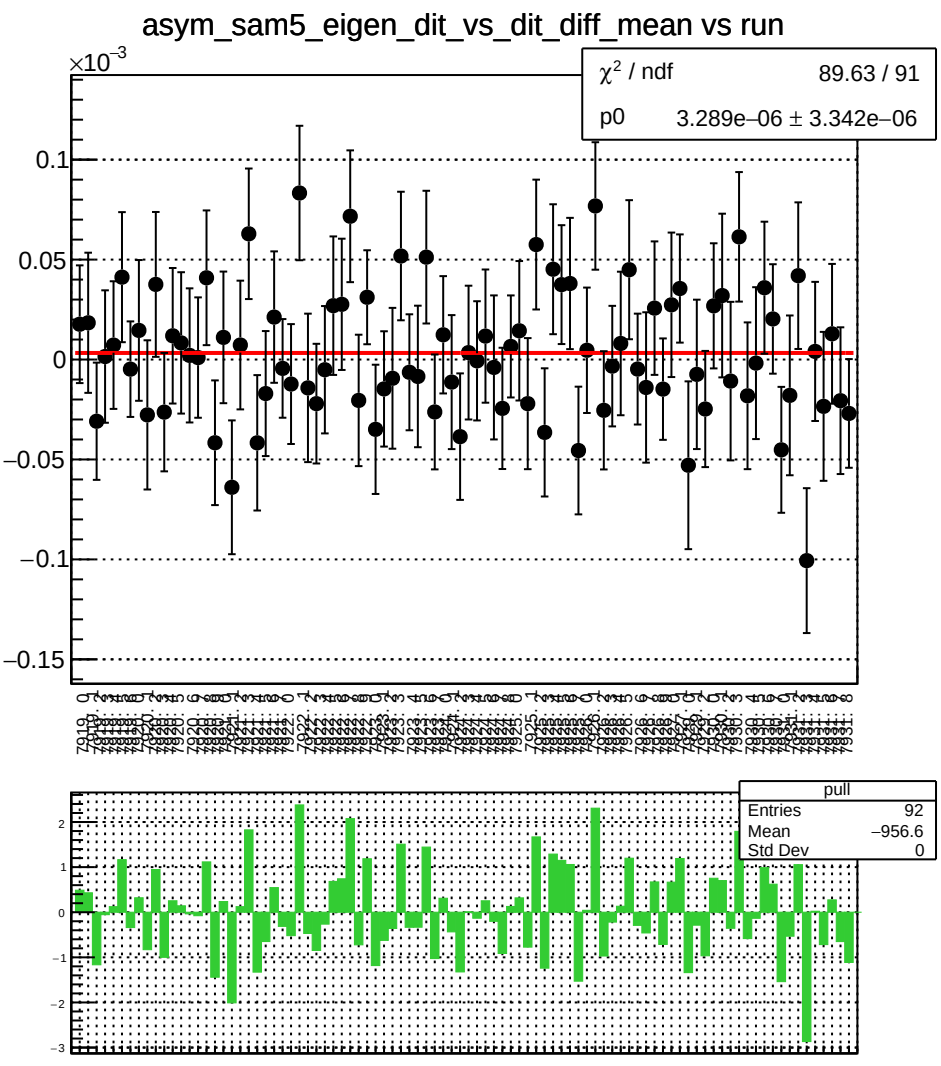

asym_sam5_reg_vs_cor_diff_rms vs run
χ² / ndf 8.354e+05 / 91
p0 5.985e−11 ± 6.149e−14
0.12
0.1
0.08
0.06
0.04
0.02
0

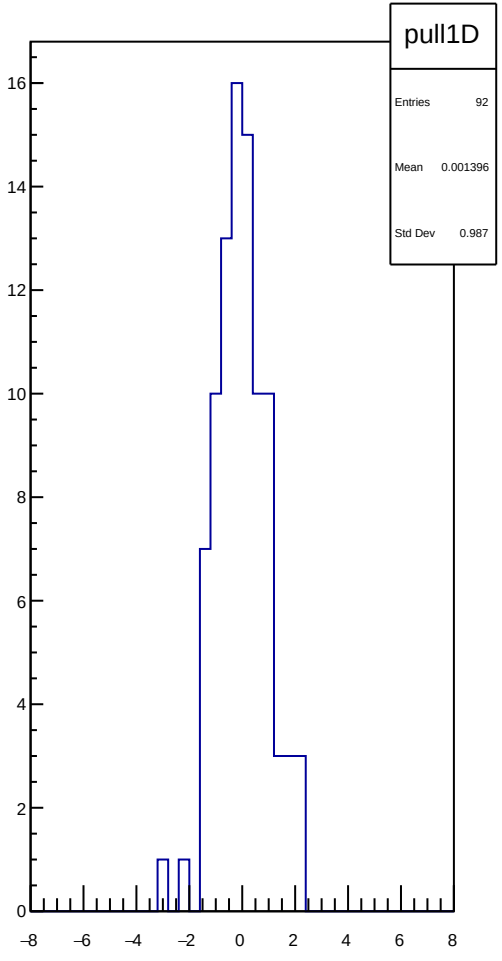

asym_sam5_dit_vs_cor_diff_mean vs run
χ² / ndf 95.58 / 91
p0 −0.05138 ± 0.07787
pull
Entries 92
Mean −55.19
Std Dev 0
pull1D
Entries 92
Mean 0.0222
Std Dev 1.019

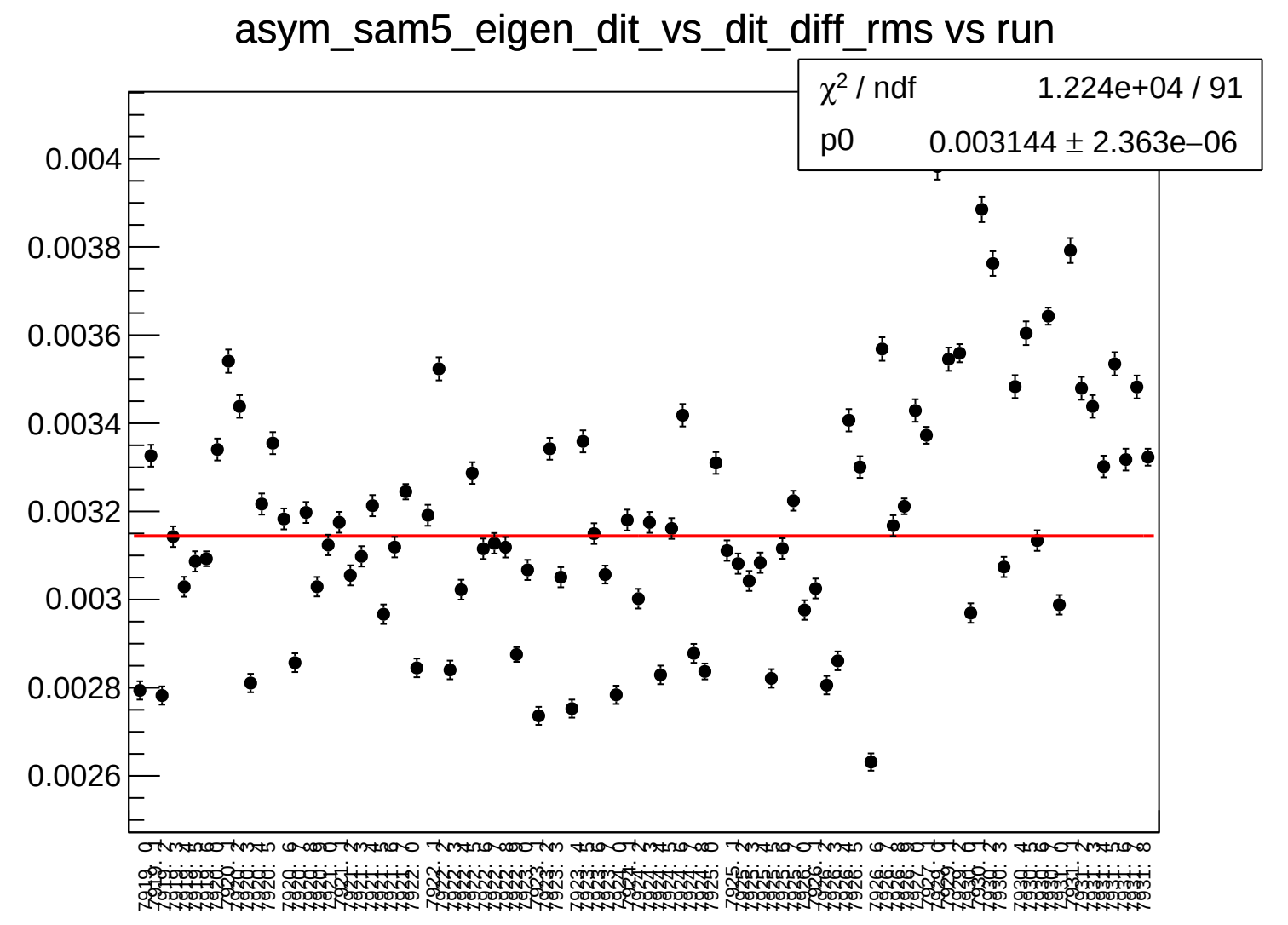

asym_sam5_dit_vs_cor_diff_rms vs run
χ² / ndf 4104 / 91
p0 73.44 ± 0.05507
82
80
78
76
74
72
70
68
66
64
62

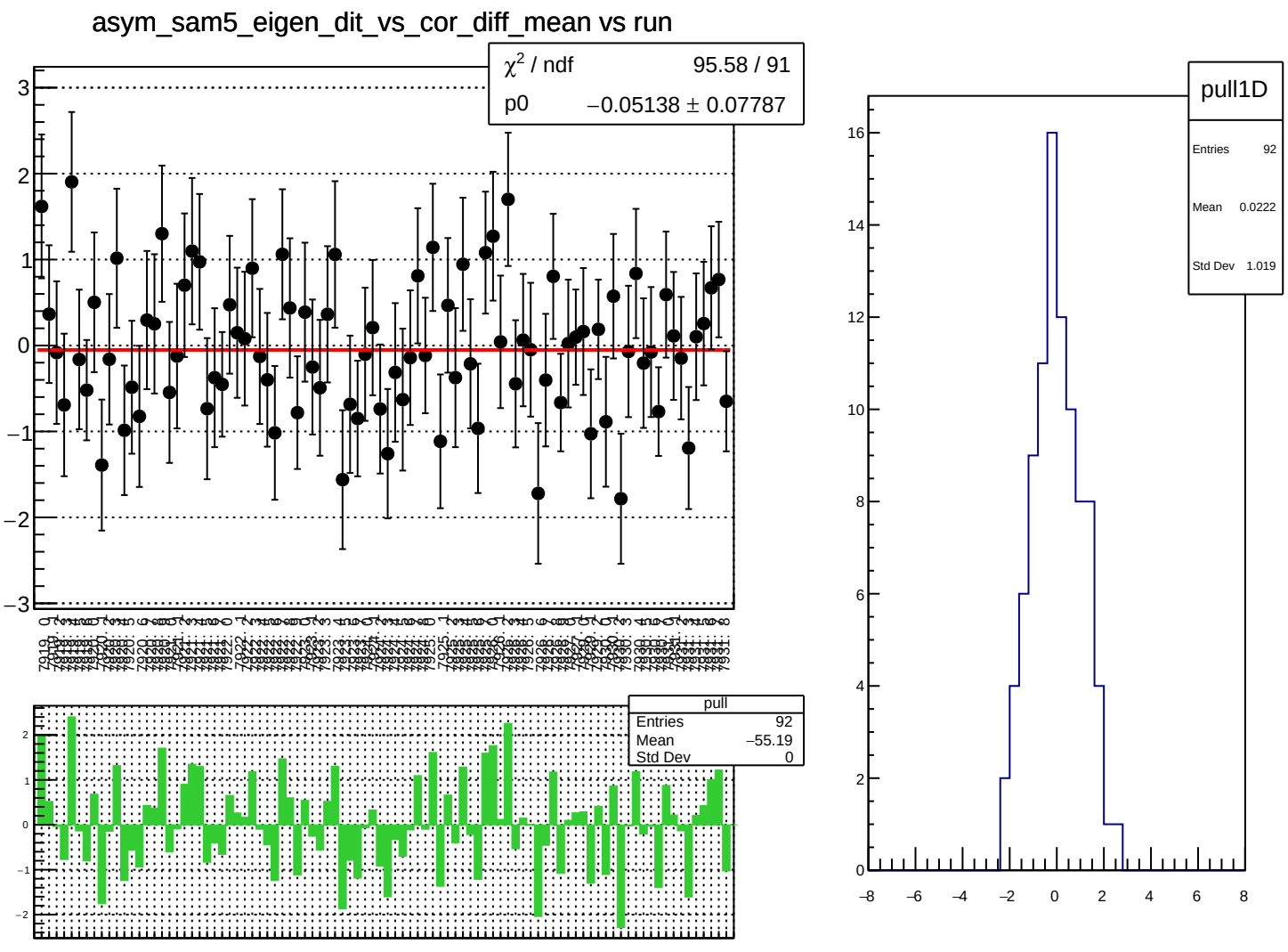

asym_sam5_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.58 / 91
p0 −0.05138 ± 0.07787
pull
Entries 92
Mean −55.19
Std Dev 0
pull1D
Entries 92
Mean 0.0222
Std Dev 1.019

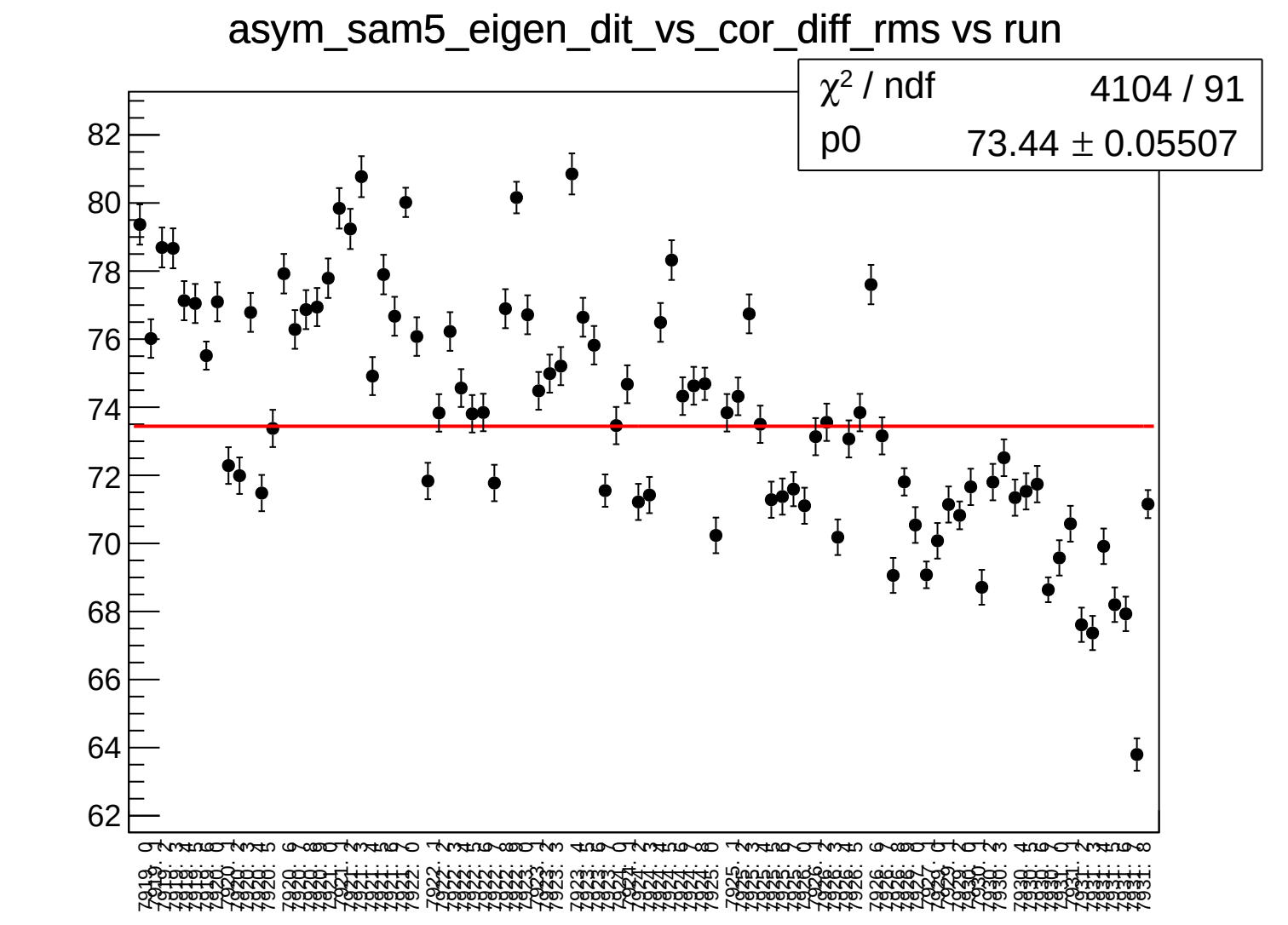

asym_sam5_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4104 / 91
p0 73.44 ± 0.05507
82
80
78
76
74
72
70
68
66
64
62

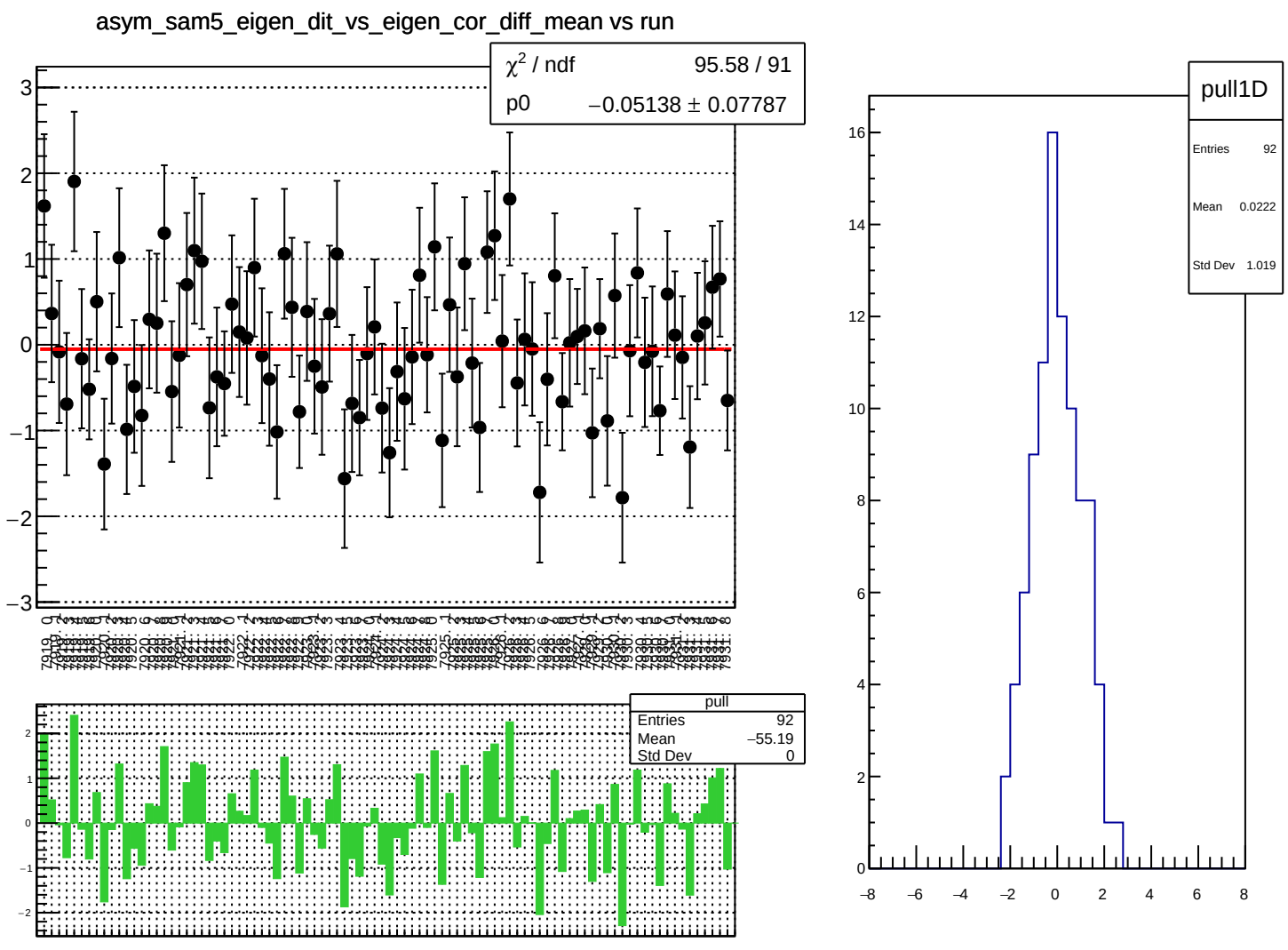

asym_sam5_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.63 / 91
p0 3.289e−06 ± 3.342e−06
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 92
Mean −956.6
Std Dev 0
2
1
0
−1
−2
−3

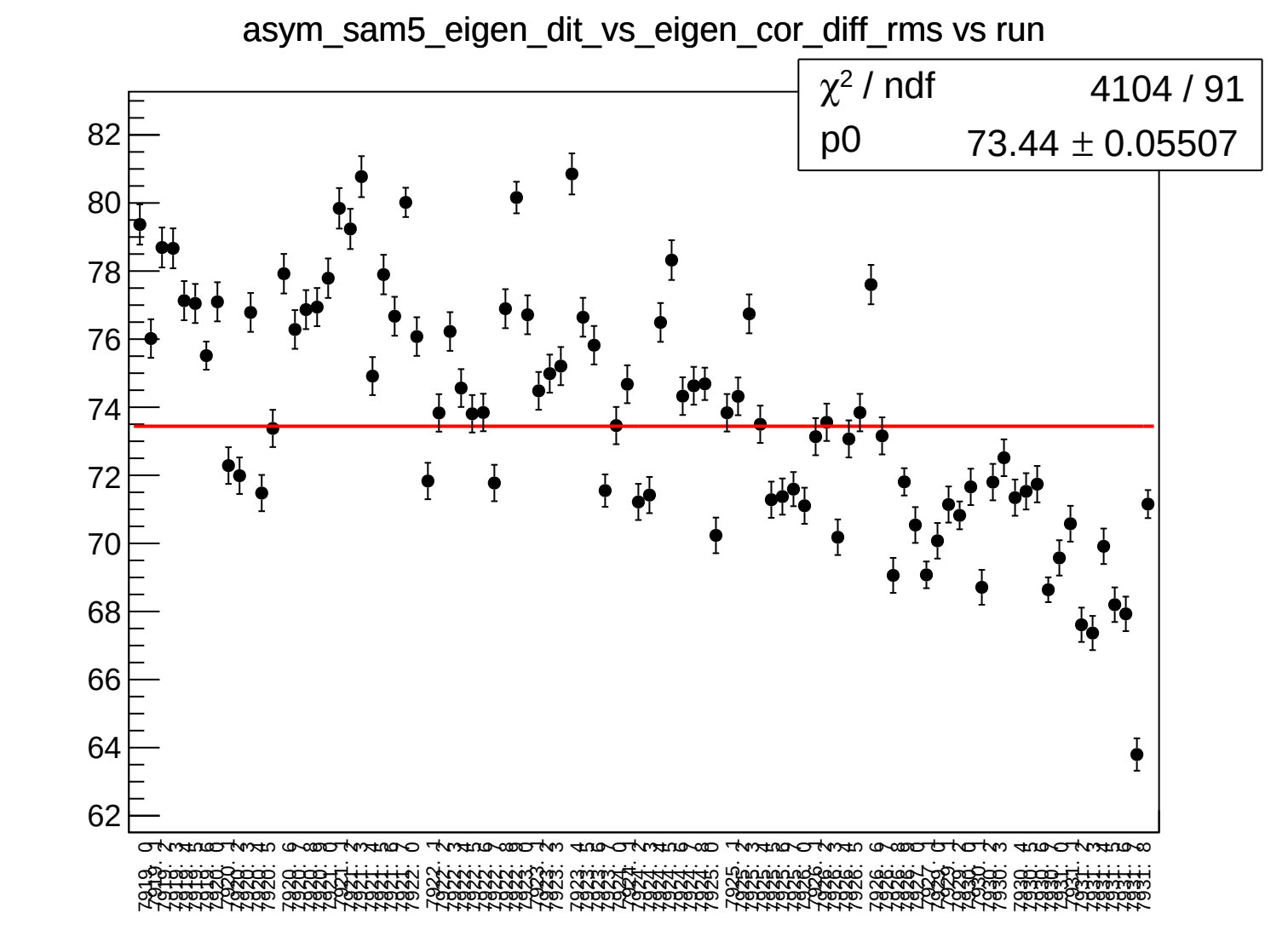

pull1D
Entries 92
Mean 0.001396
Std Dev 0.987
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

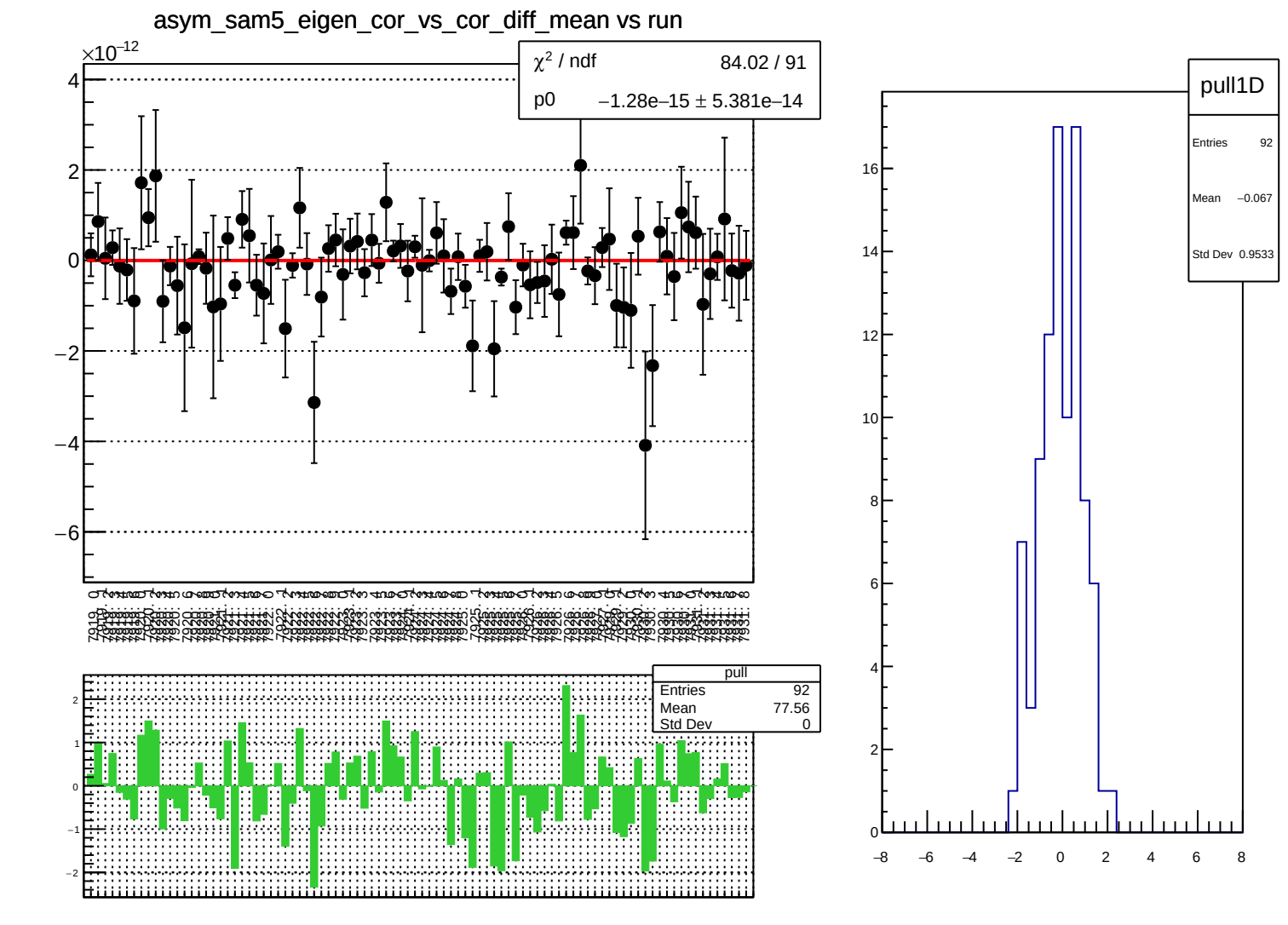

asym_sam5_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.224e+04 / 91
p0 0.003144 ± 2.363e−06
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026

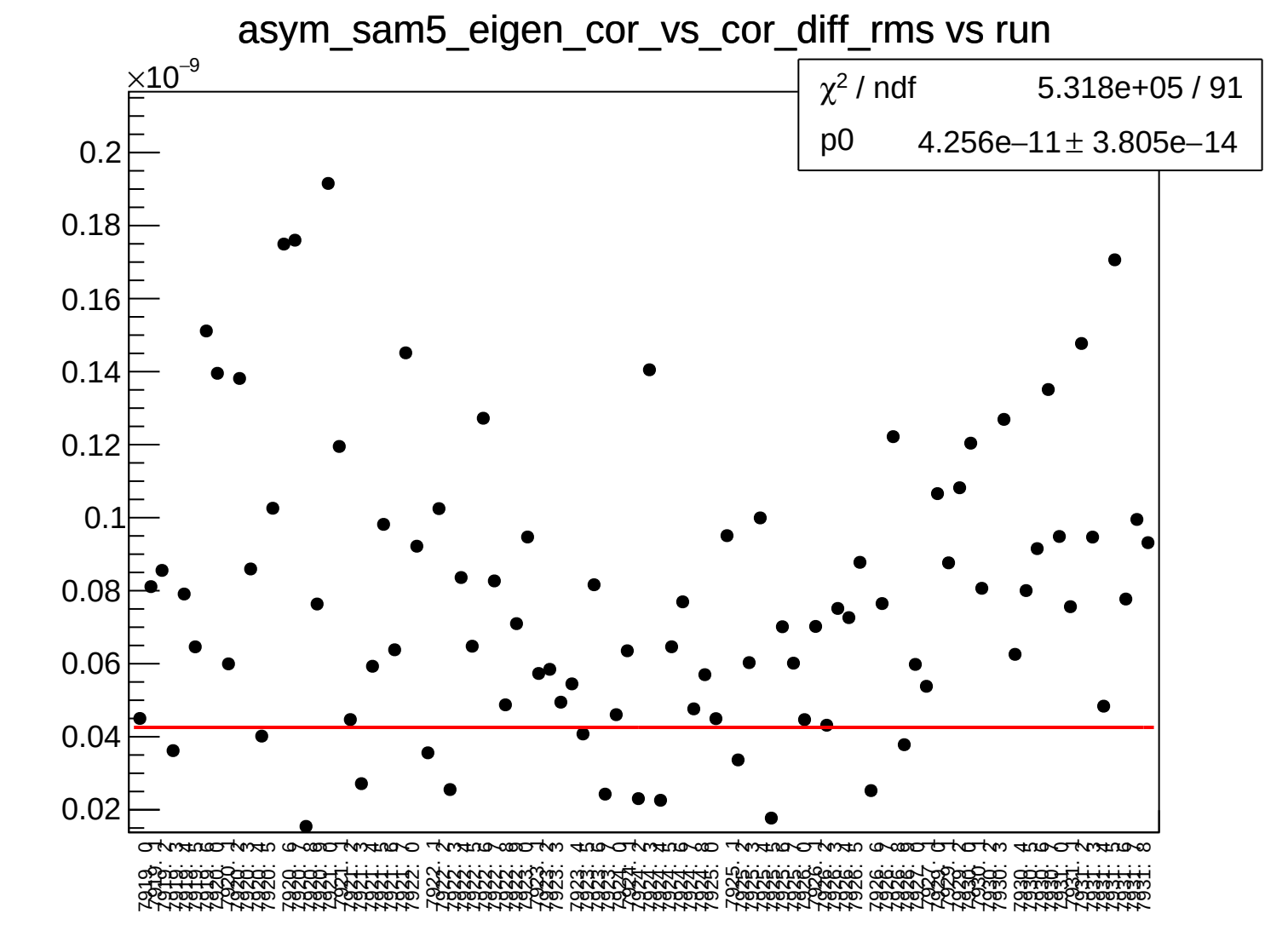

asym_sam5_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.58 / 91
p0 −0.05138 ± 0.07787
pull
Entries 92
Mean −55.19
Std Dev 0
pull1D
Entries 92
Mean 0.0222
Std Dev 1.019

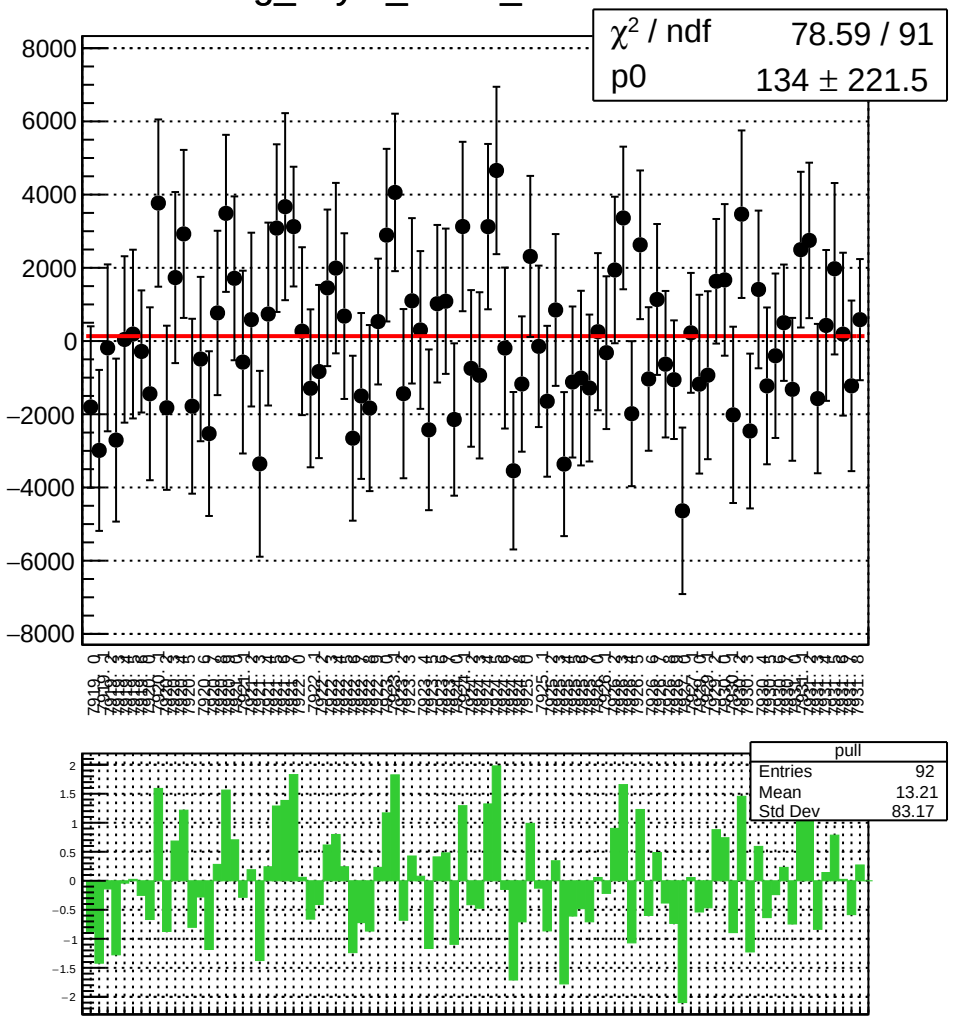

asym_sam5_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4104 / 91
p0 73.44 ± 0.05507
82
80
78
76
74
72
70
68
66
64
62

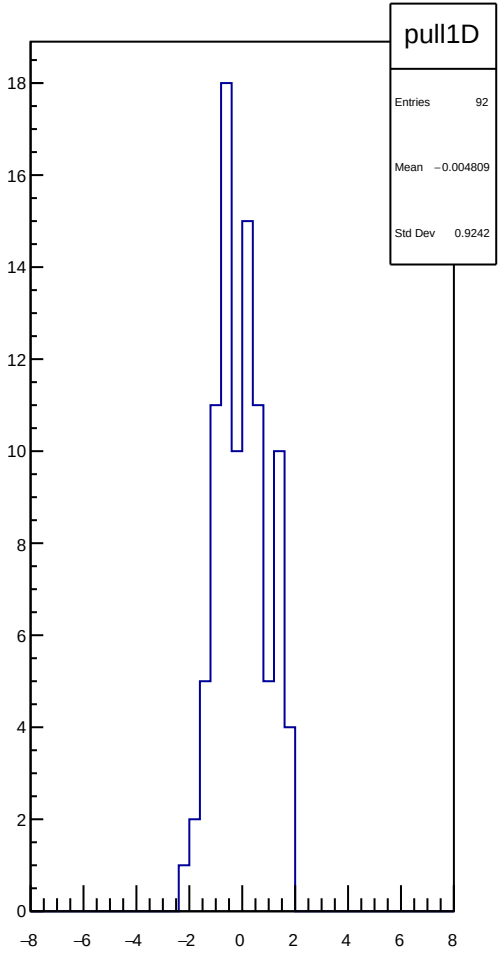

asym_sam5_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.58 / 91
p0 −0.05138 ± 0.07787
pull
Entries 92
Mean −55.19
Std Dev 0
pull1D
Entries 92
Mean 0.0222
Std Dev 1.019

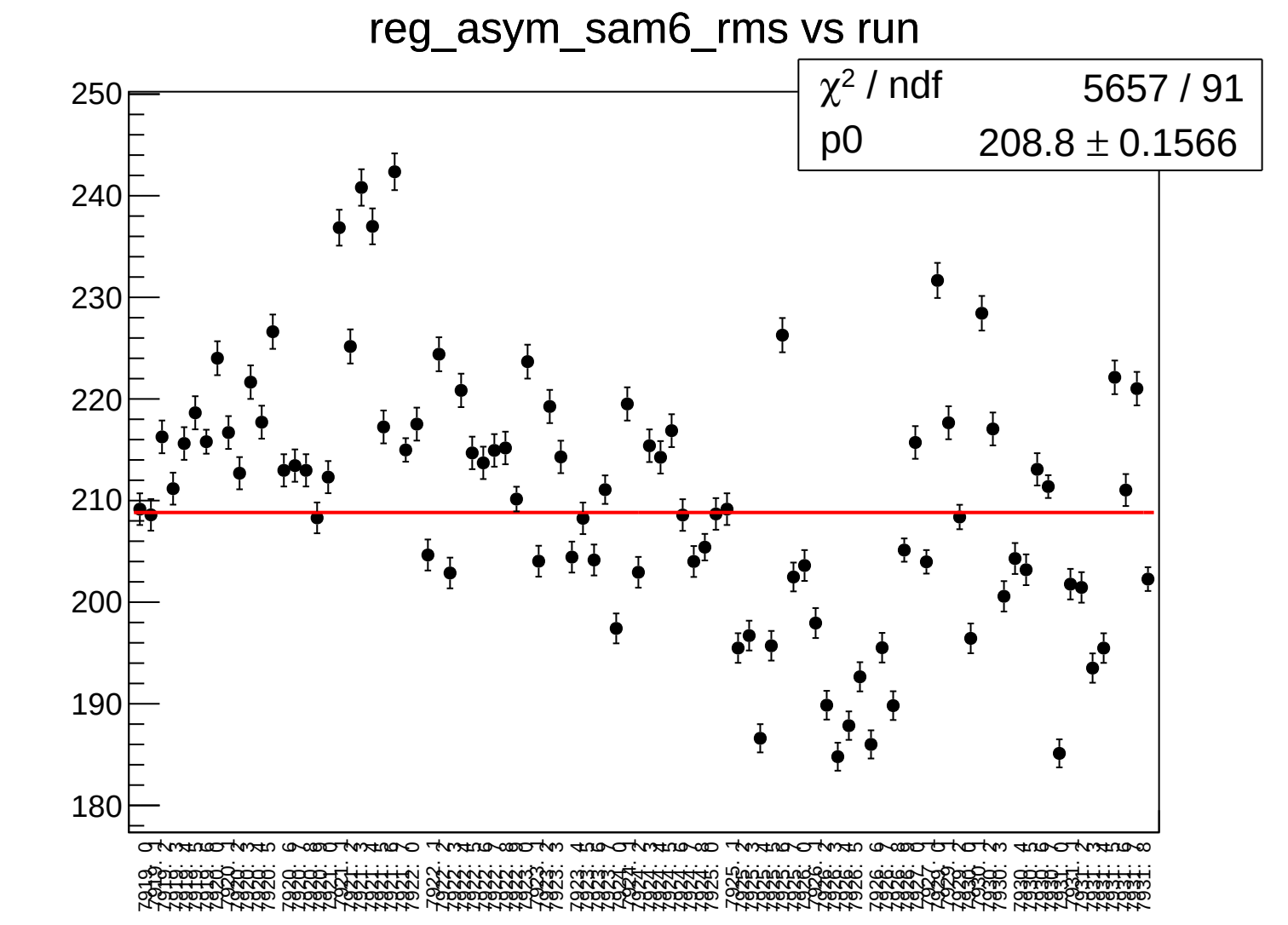

asym_sam5_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4104 / 91
p0 73.44 ± 0.05507
82
80
78
76
74
72
70
68
66
64
62

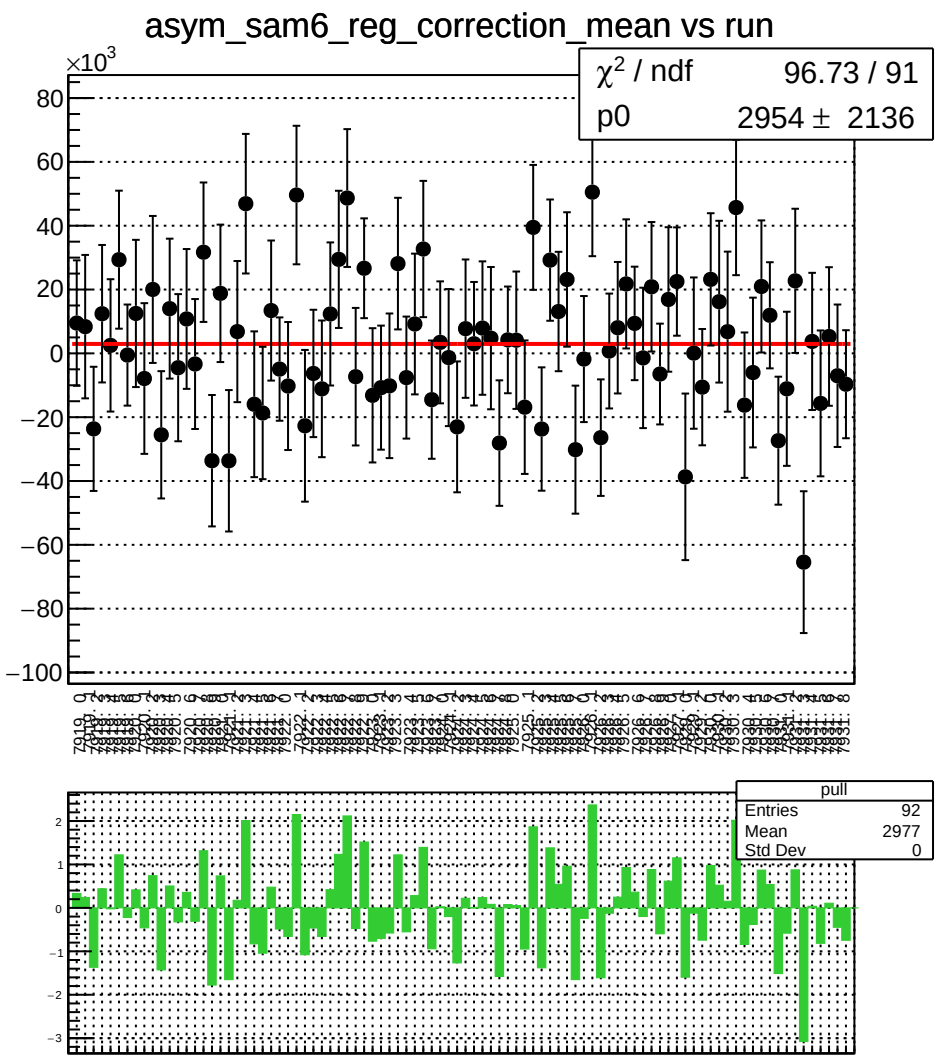

asym_sam5_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.02 / 91
p0 −1.28e−15 ± 5.381e−14
pull
Entries 92
Mean 77.56
Std Dev 0
pull1D
Entries 92
Mean −0.067
Std Dev 0.9533

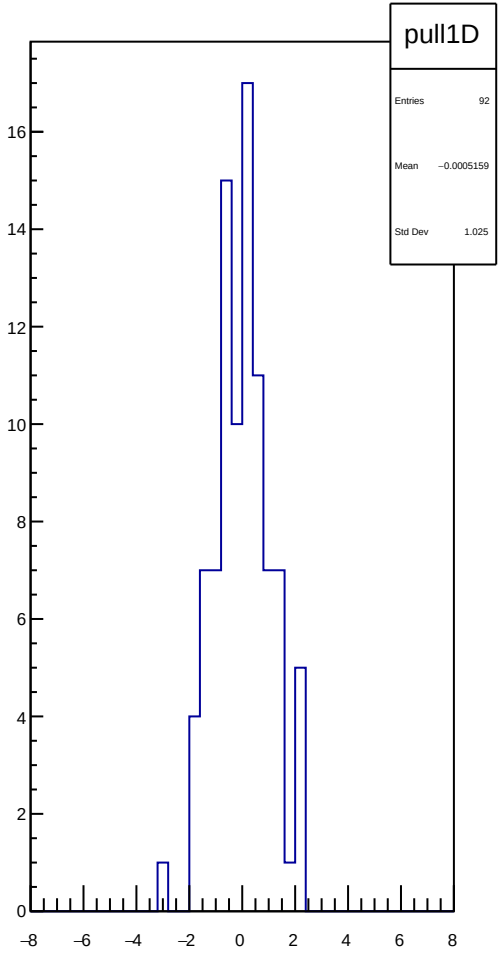

asym_sam5_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.318e+05 / 91
p0 4.256e−11 ± 3.805e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

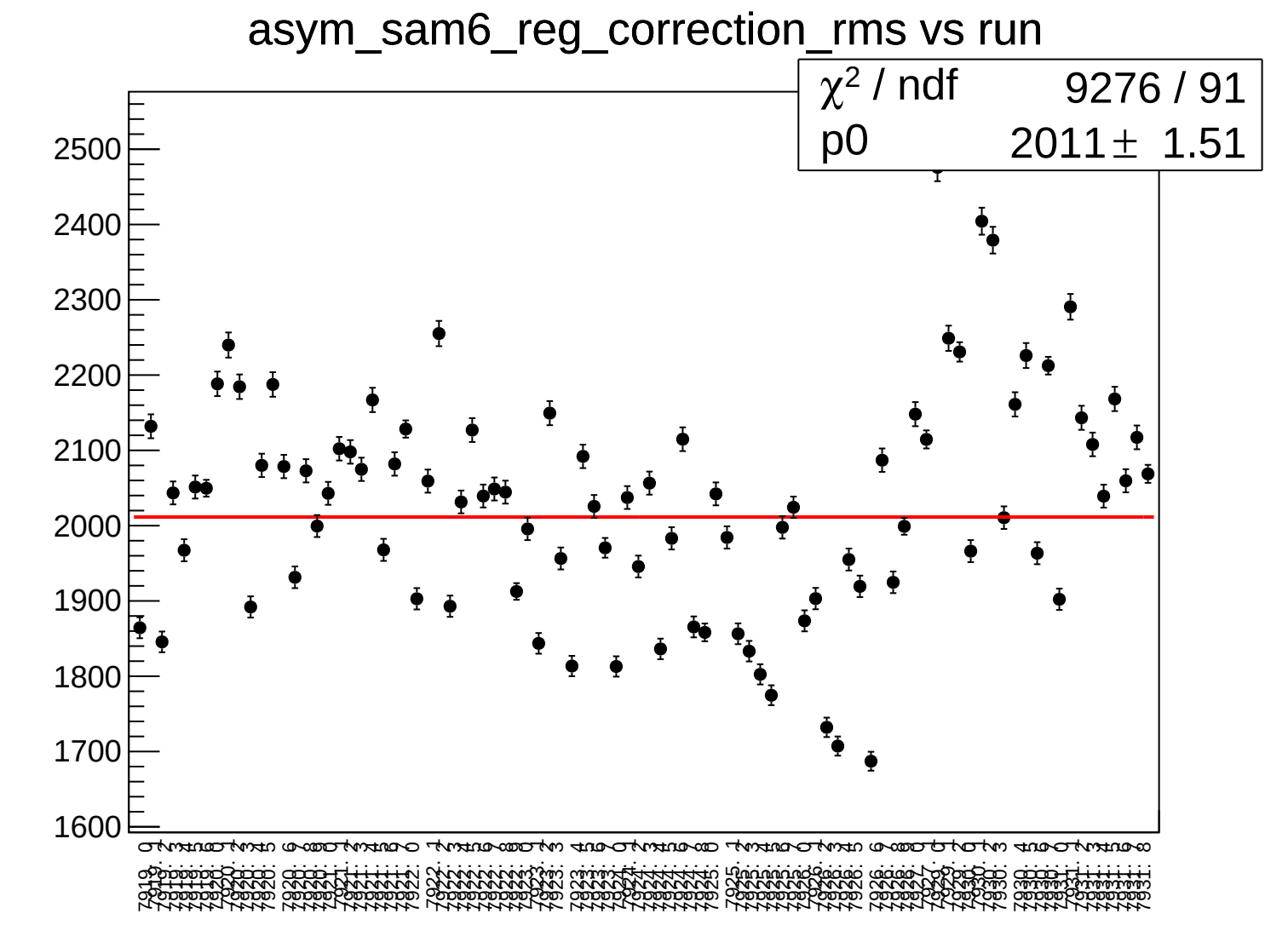

reg_asym_sam6_mean vs run
χ² / ndf 78.59 / 91
p0 134 ± 221.5
pull
Entries 92
Mean 13.21
Std Dev 83.17

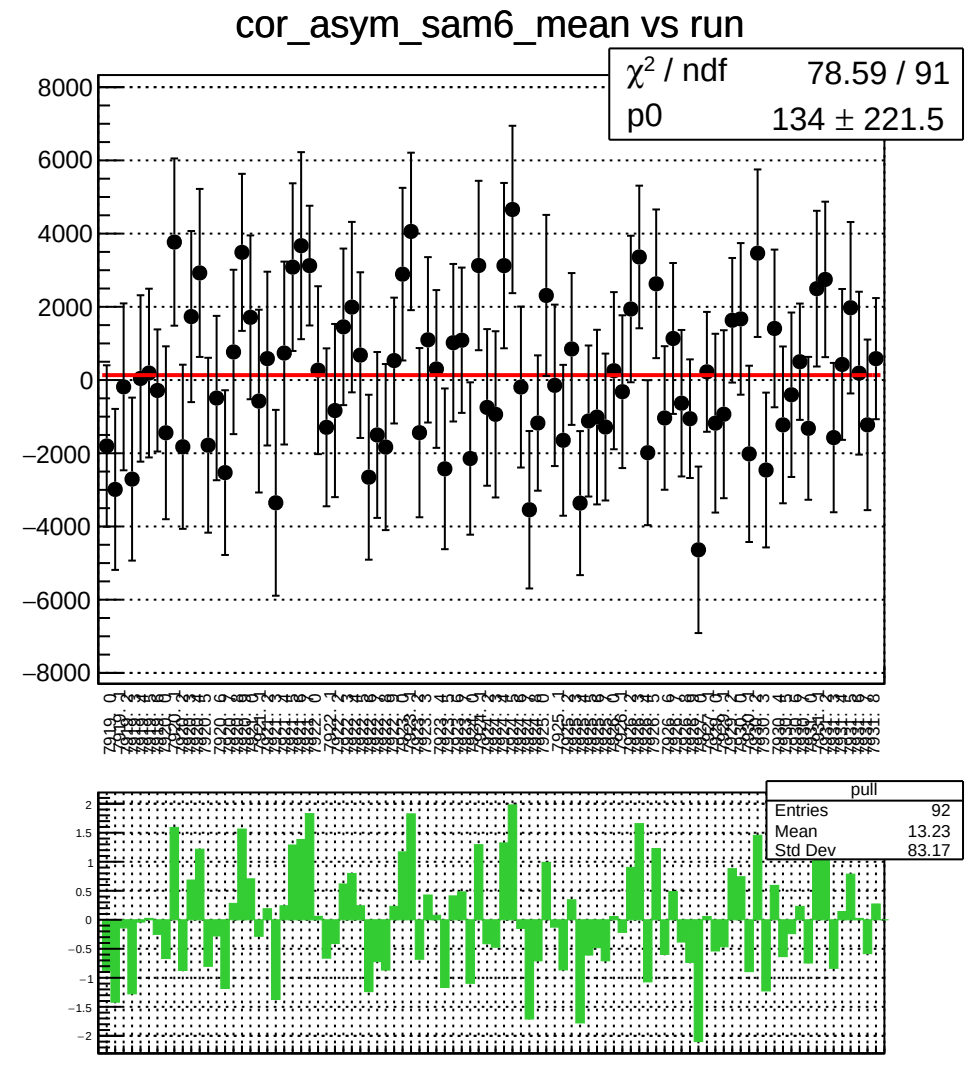

pull1D
Entries 92
Mean −0.004809
Std Dev 0.9242

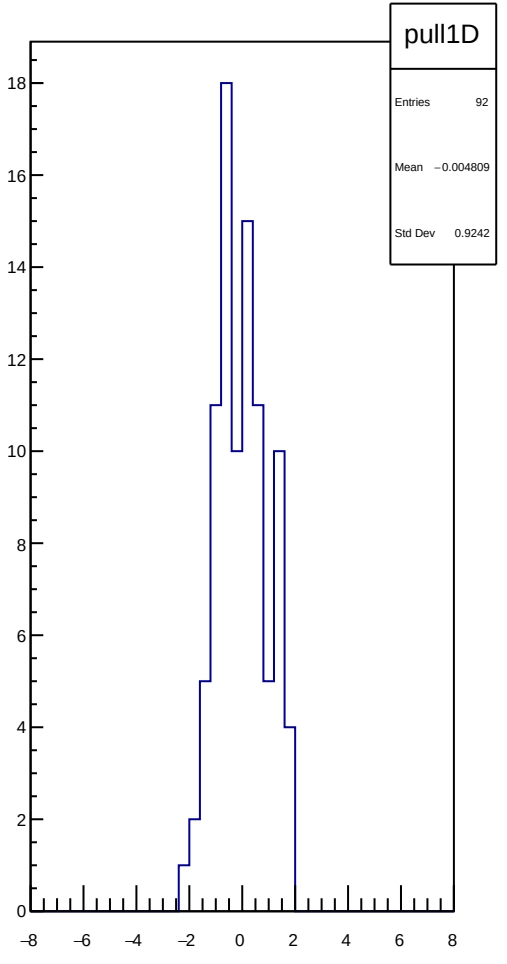

reg_asym_sam6_rms vs run
χ² / ndf 5657 / 91
p0 208.8 ± 0.1566
250
240
230
220
210
200
190
180

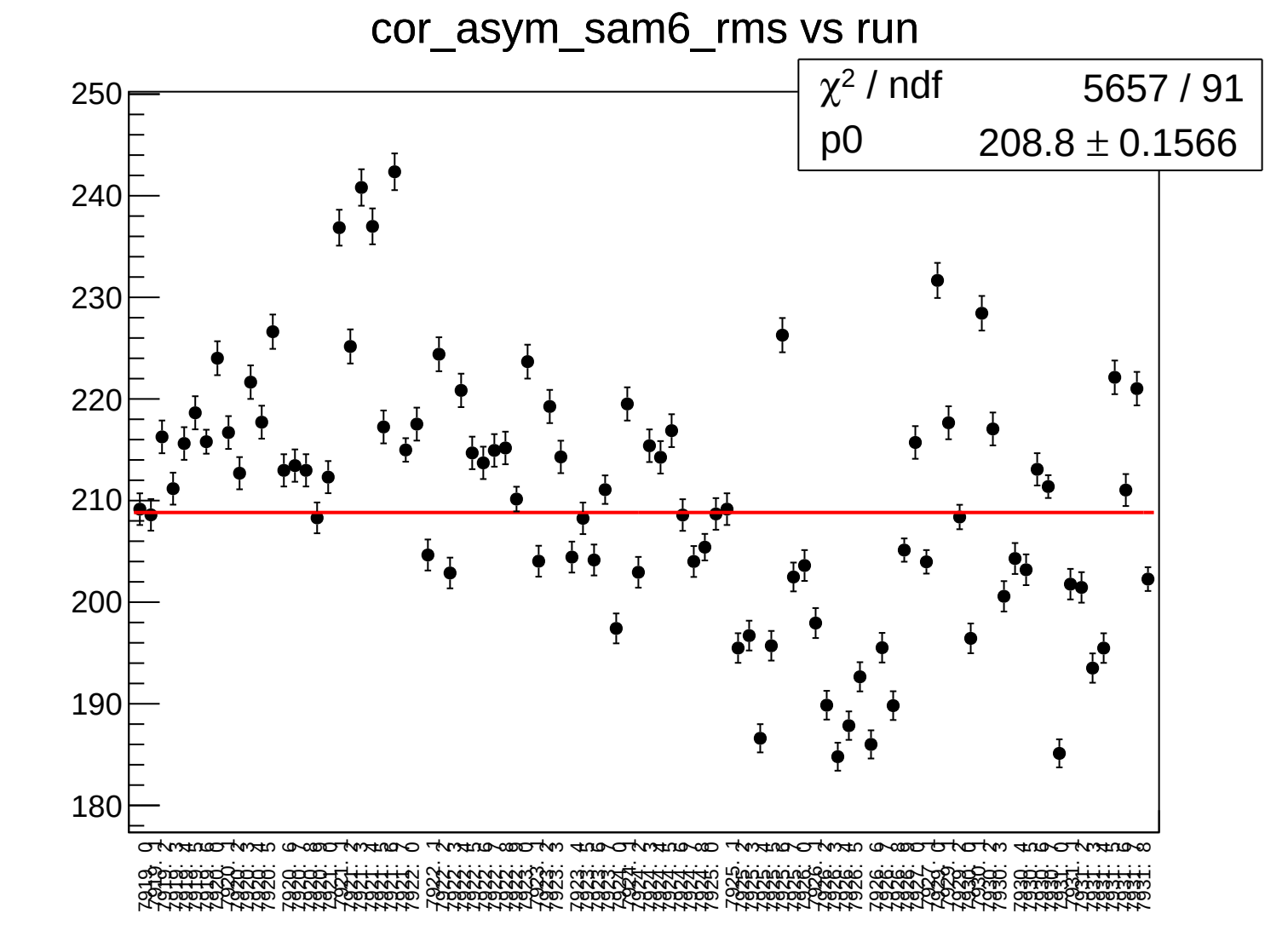

asym_sam6_reg_correction_mean vs run
χ² / ndf 96.73 / 91
p0 2954 ± 2136
×10³
pull
Entries 92
Mean 2977
Std Dev 0

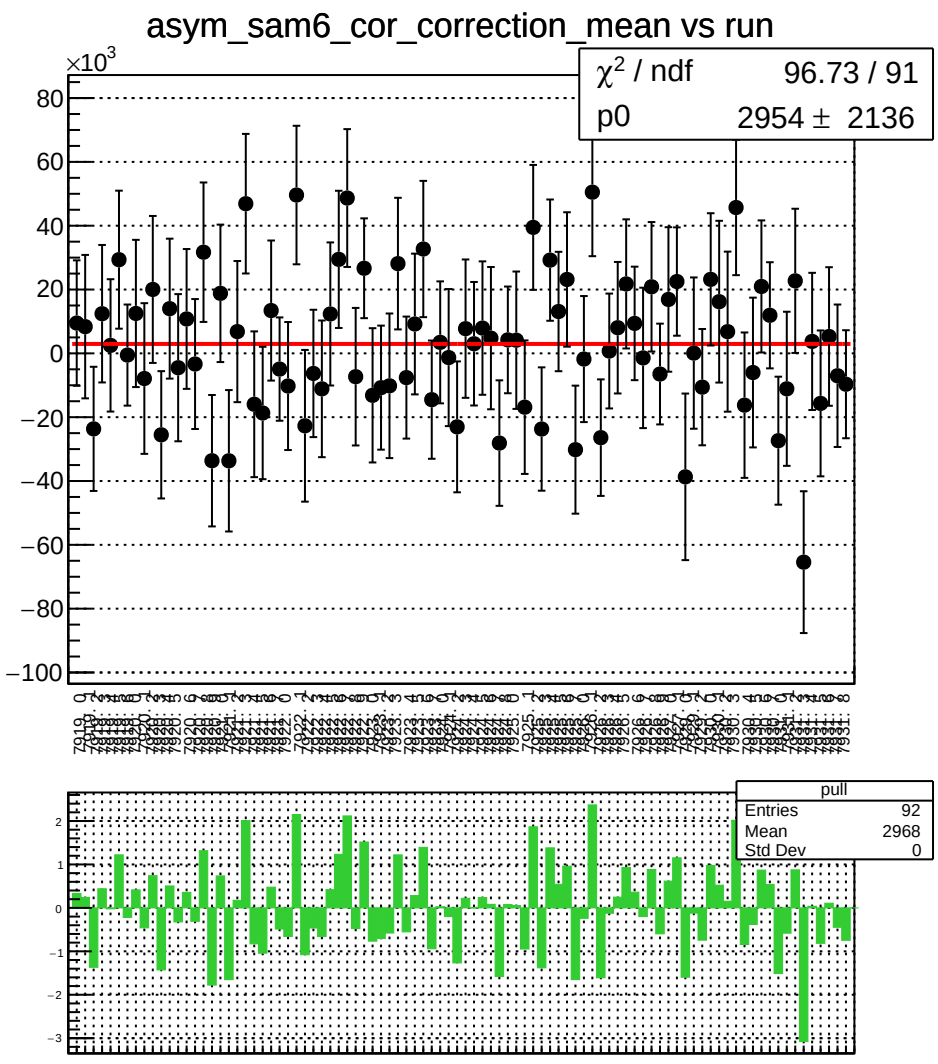

pull1D
Entries 92
Mean −0.0005159
Std Dev 1.025

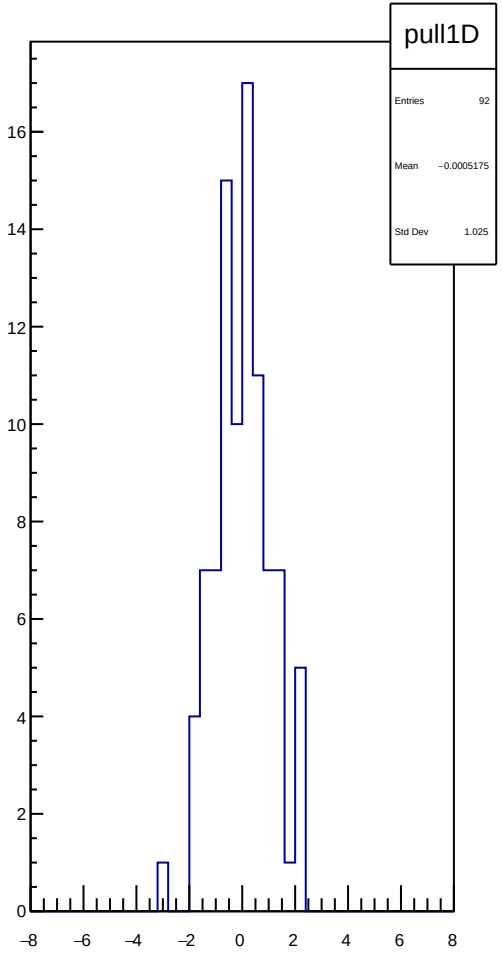

asym_sam6_reg_correction_rms vs run
χ² / ndf 9276 / 91
p0 2011 ± 1.51
2500
2400
2300
2200
2100
2000
1900
1800
1700
1600

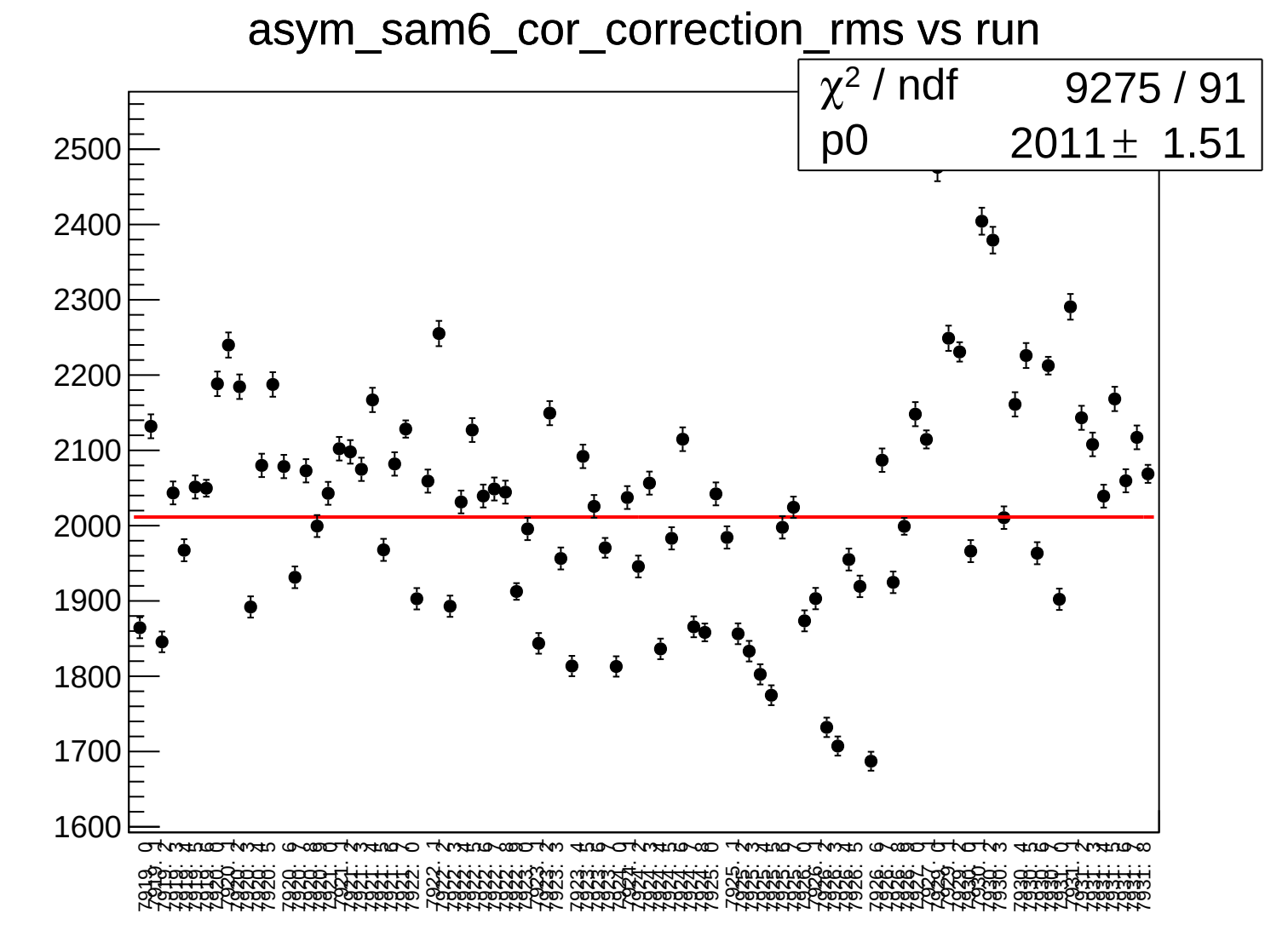

cor_asym_sam6_mean vs run
χ² / ndf 78.59 / 91
p0 134 ± 221.5
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 92
Mean 13.23
Std Dev 83.17
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

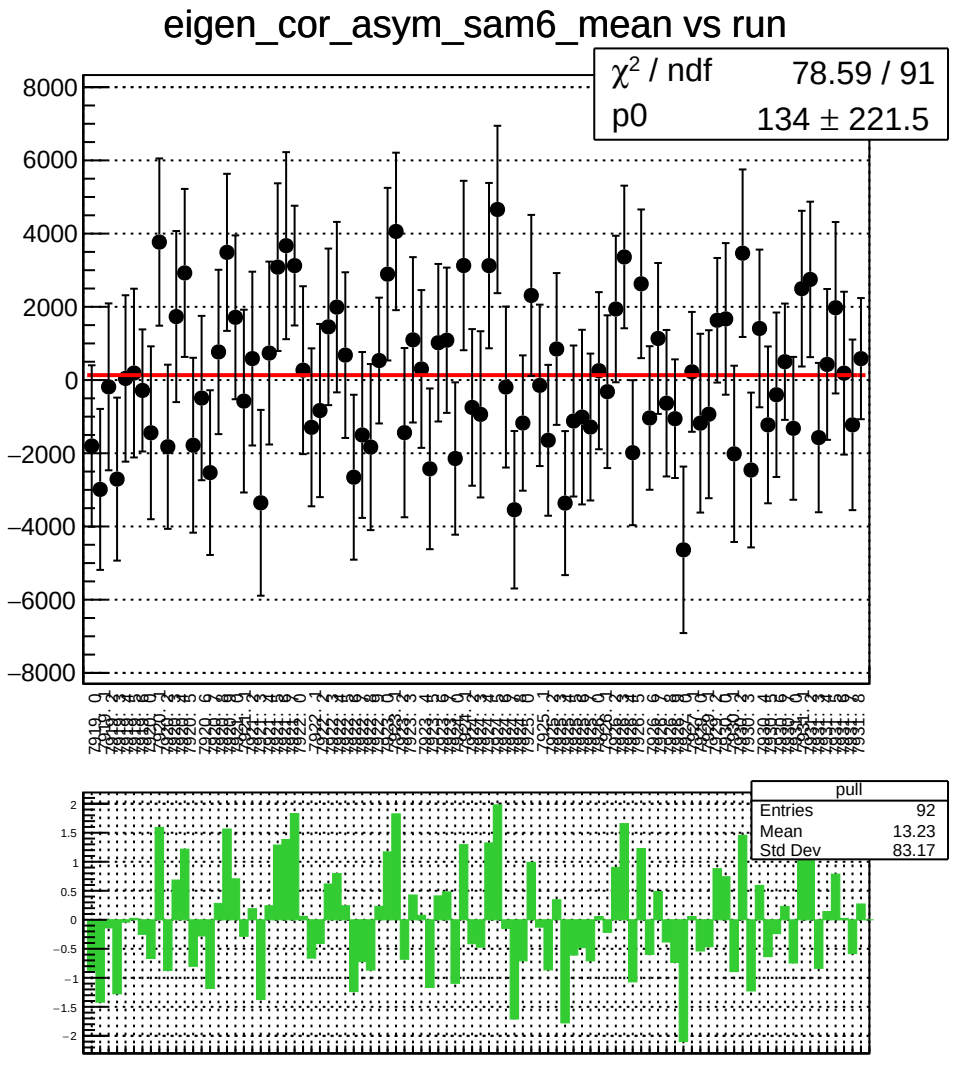

pull1D
Entries 92
Mean −0.004809
Std Dev 0.9242
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

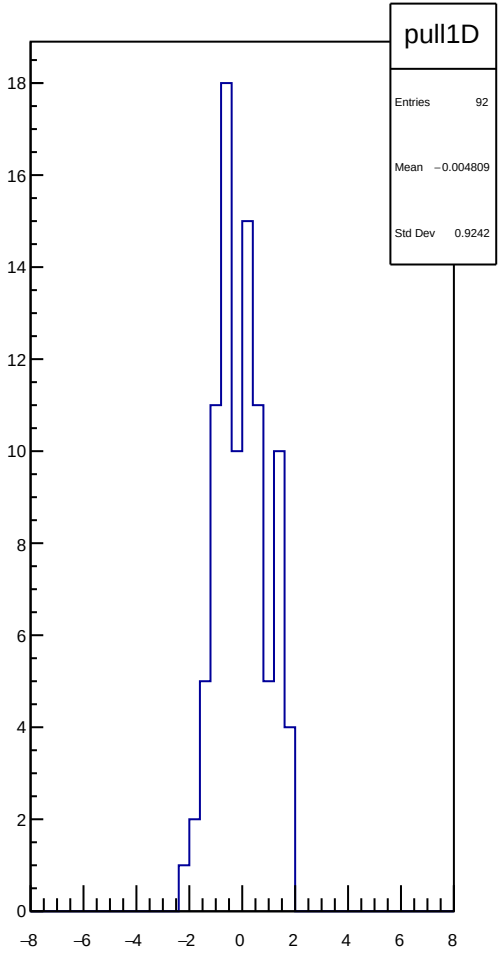

cor_asym_sam6_rms vs run
χ² / ndf 5657 / 91
p0 208.8 ± 0.1566
250
240
230
220
210
200
190
180

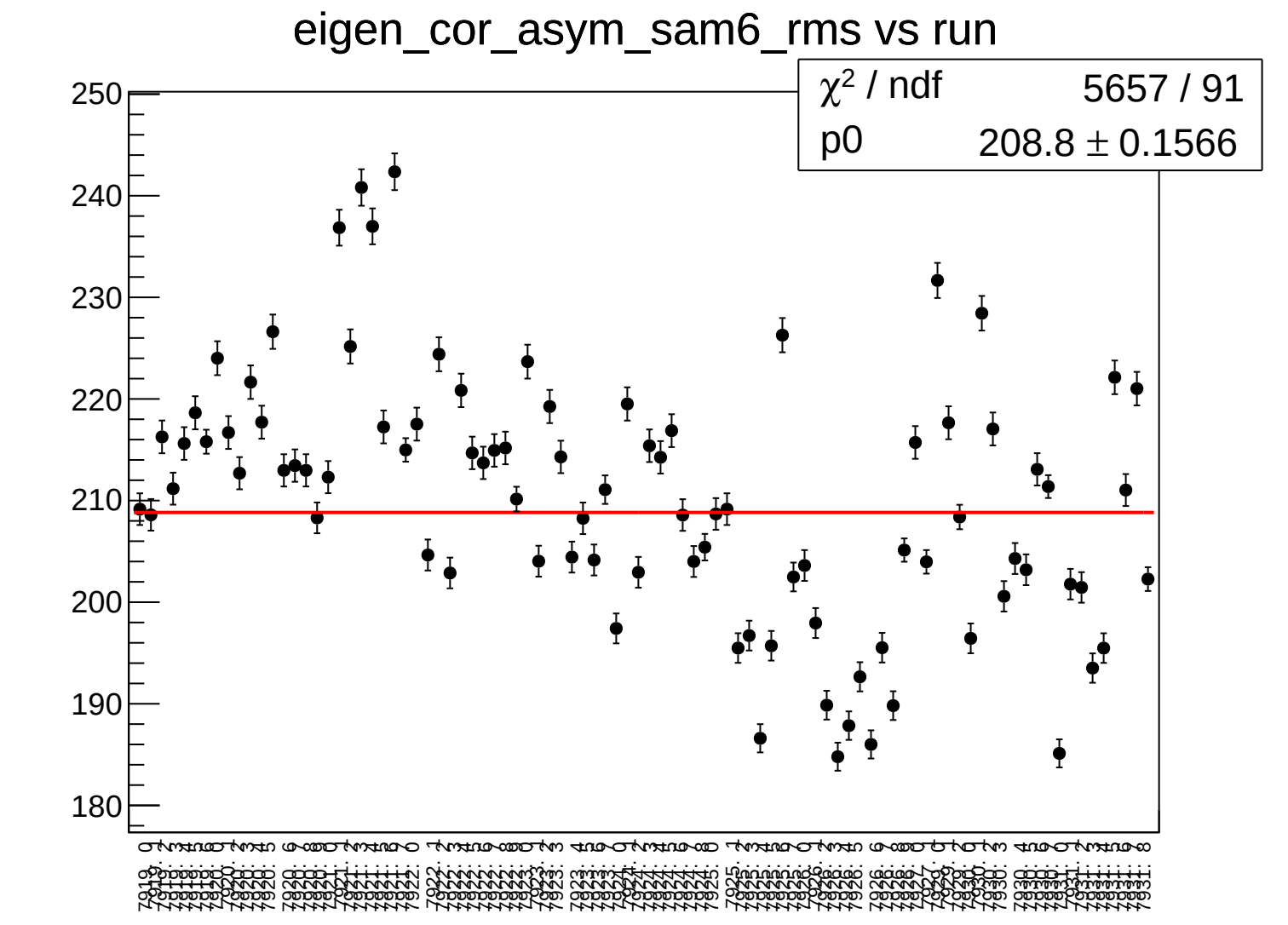

asym_sam6_cor_correction_mean vs run
χ² / ndf 96.73 / 91
p0 2954 ± 2136
×10³
pull
Entries 92
Mean 2968
Std Dev 0

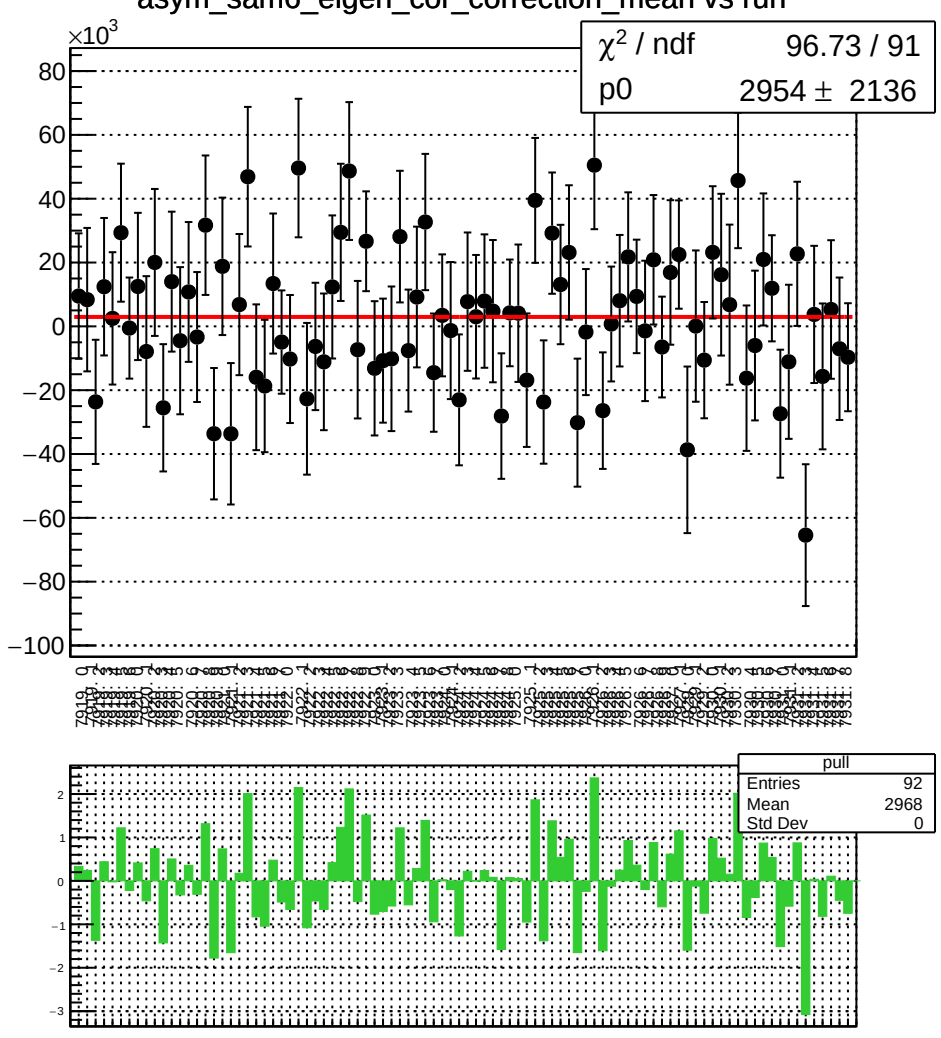

pull1D
Entries 92
Mean −0.0005175
Std Dev 1.025

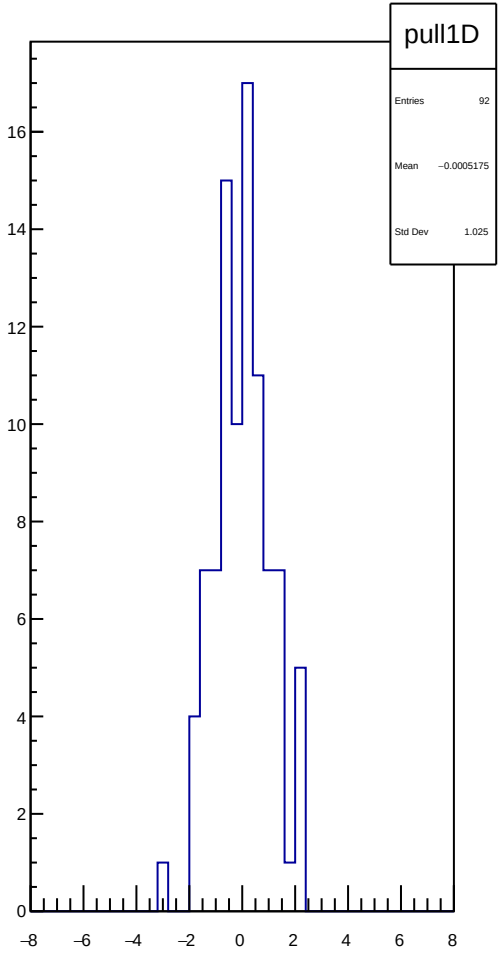

asym_sam6_cor_correction_rms vs run
χ² / ndf 9275 / 91
p0 2011 ± 1.51
2500
2400
2300
2200
2100
2000
1900
1800
1700
1600

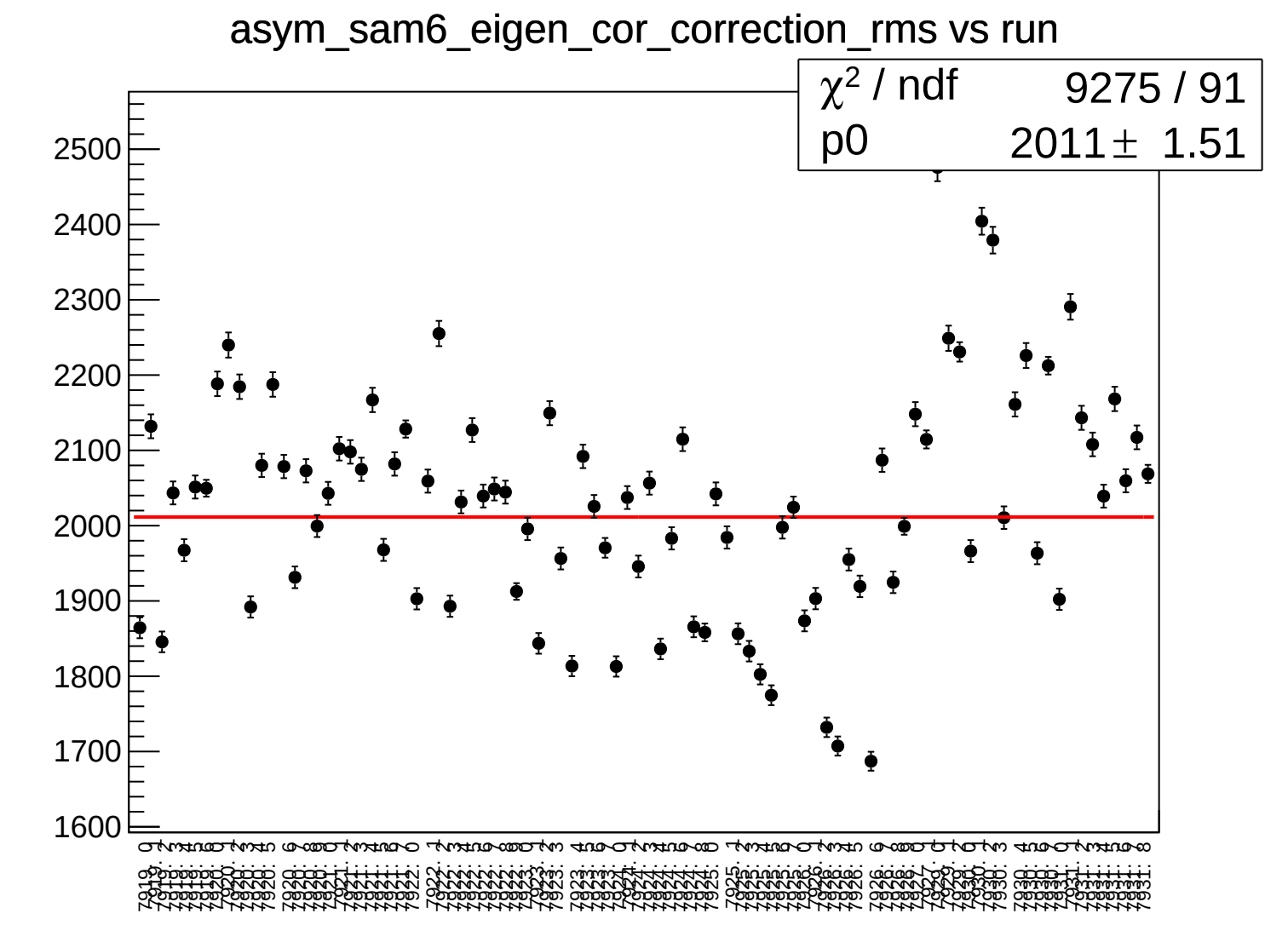

eigen_cor_asym_sam6_mean vs run
χ² / ndf 78.59 / 91
p0 134 ± 221.5
pull
Entries 92
Mean 13.23
Std Dev 83.17

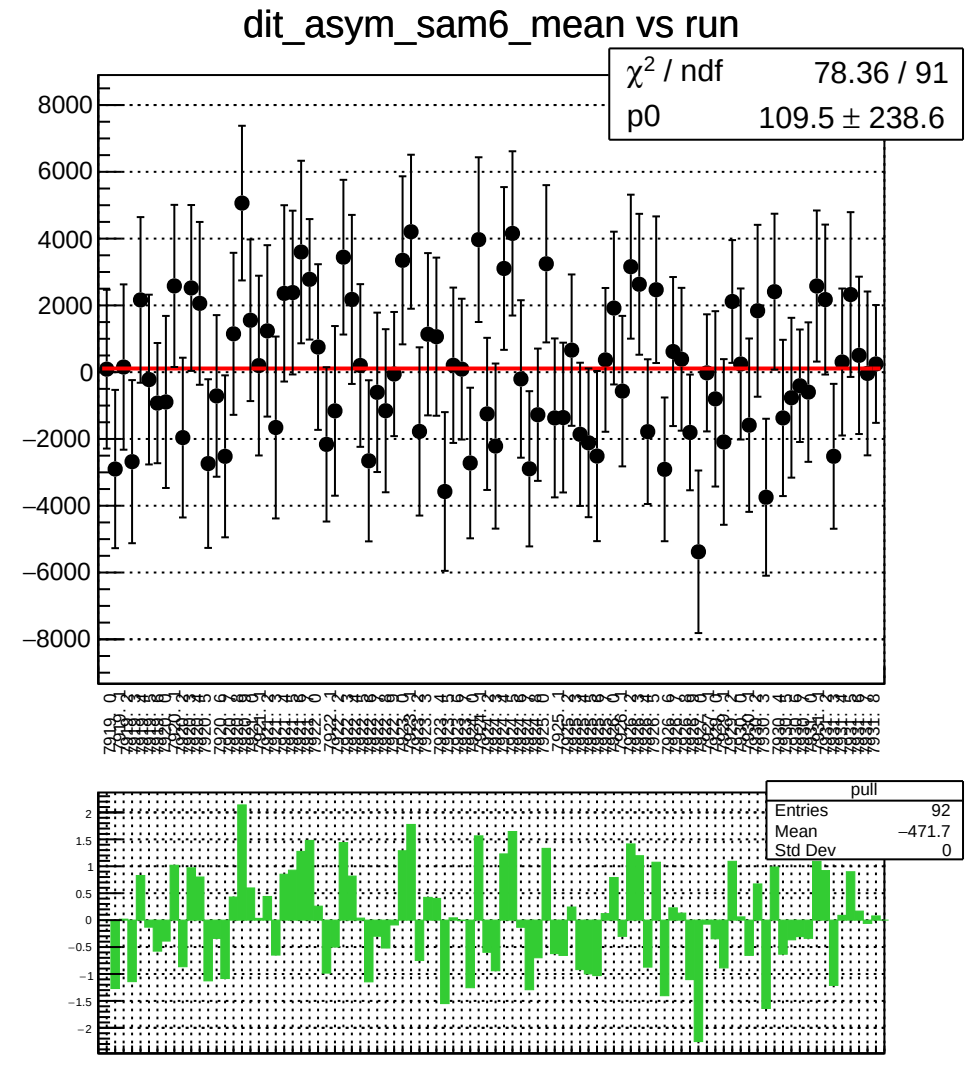

pull1D
Entries 92
Mean −0.004809
Std Dev 0.9242

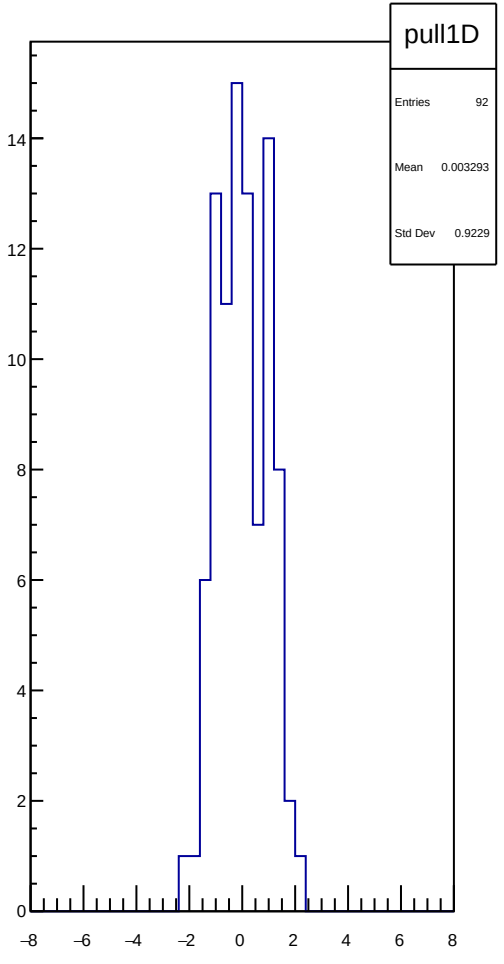

eigen_cor_asym_sam6_rms vs run
χ² / ndf 5657 / 91
p0 208.8 ± 0.1566
250
240
230
220
210
200
190
180

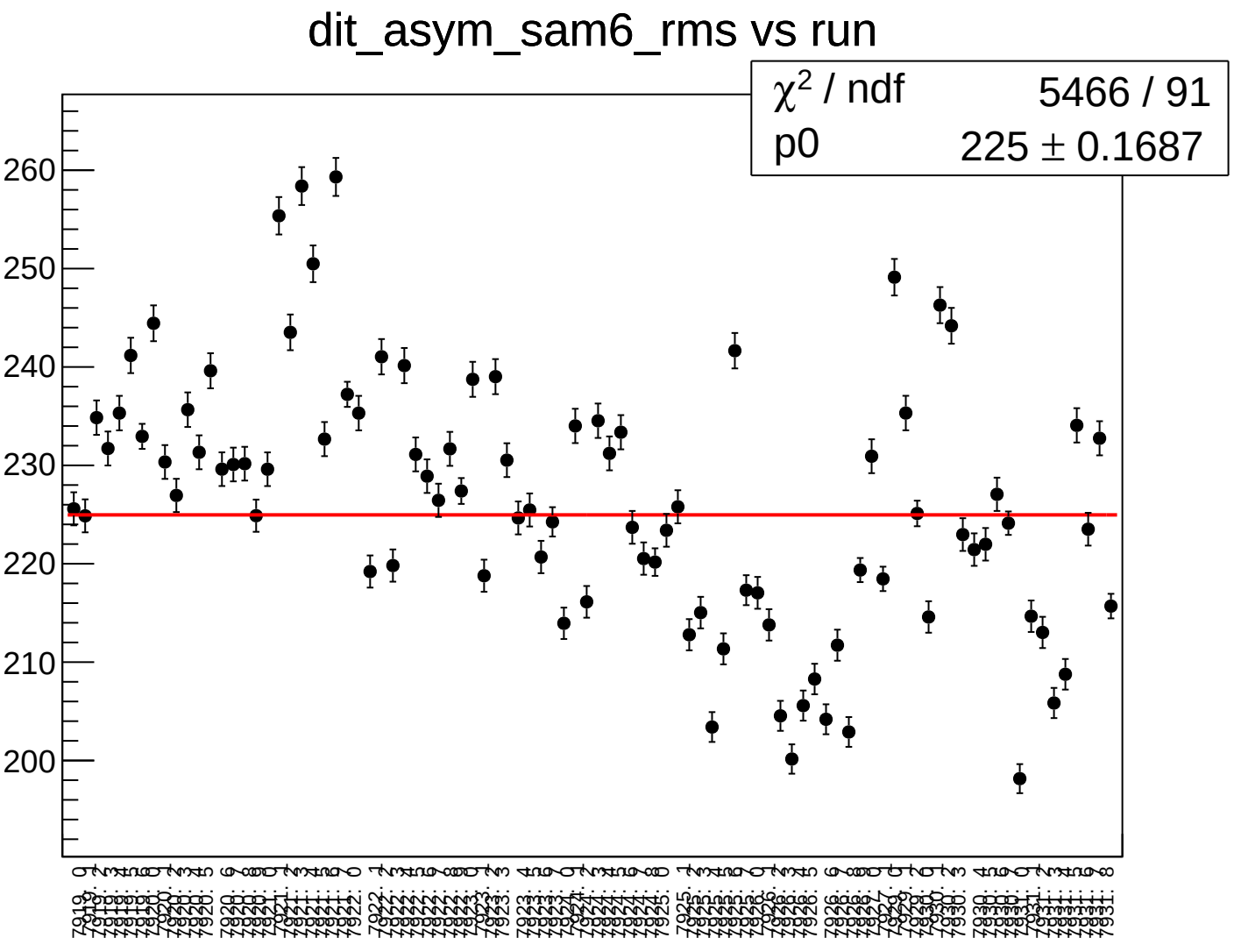

asym_sam6_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 96.73 / 91
p0 2954 ± 2136
pull
Entries 92
Mean 2968
Std Dev 0

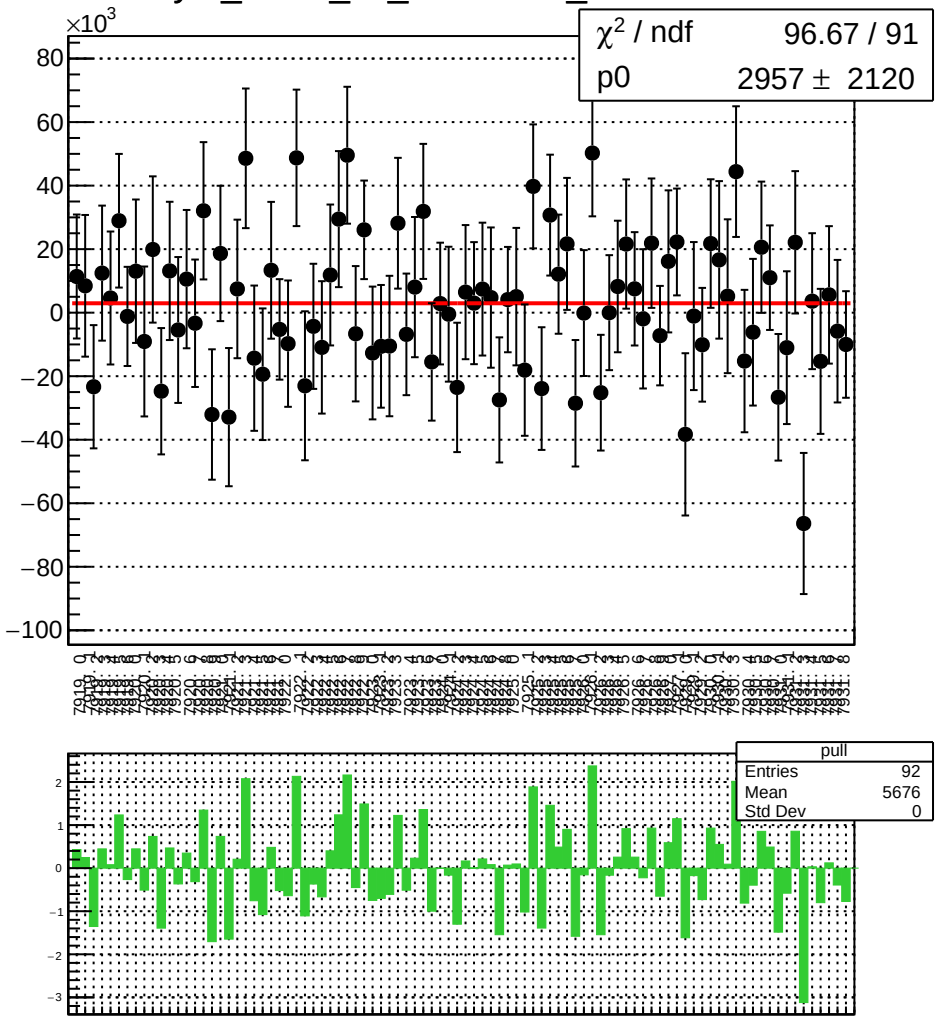

pull1D
Entries 92
Mean −0.0005175
Std Dev 1.025

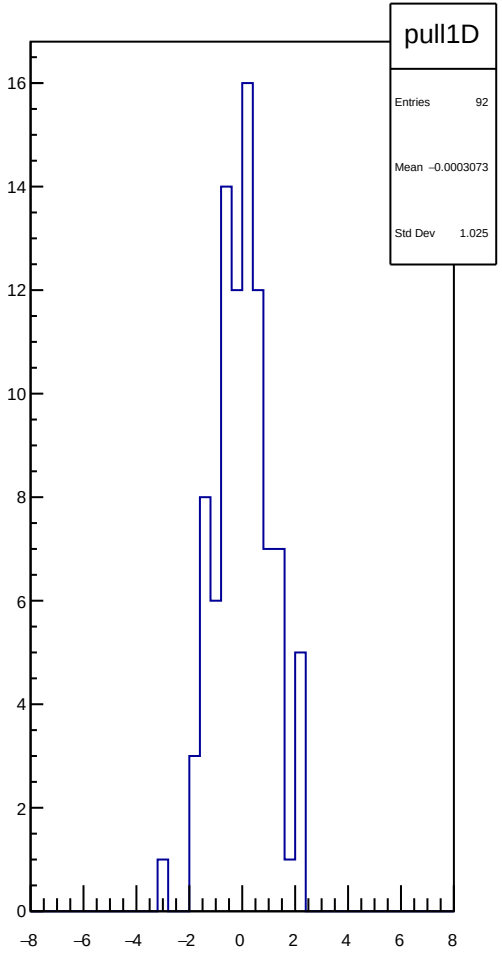

asym_sam6_eigen_cor_correction_rms vs run
χ² / ndf 9275 / 91
p0 2011 ± 1.51
2500
2400
2300
2200
2100
2000
1900
1800
1700
1600

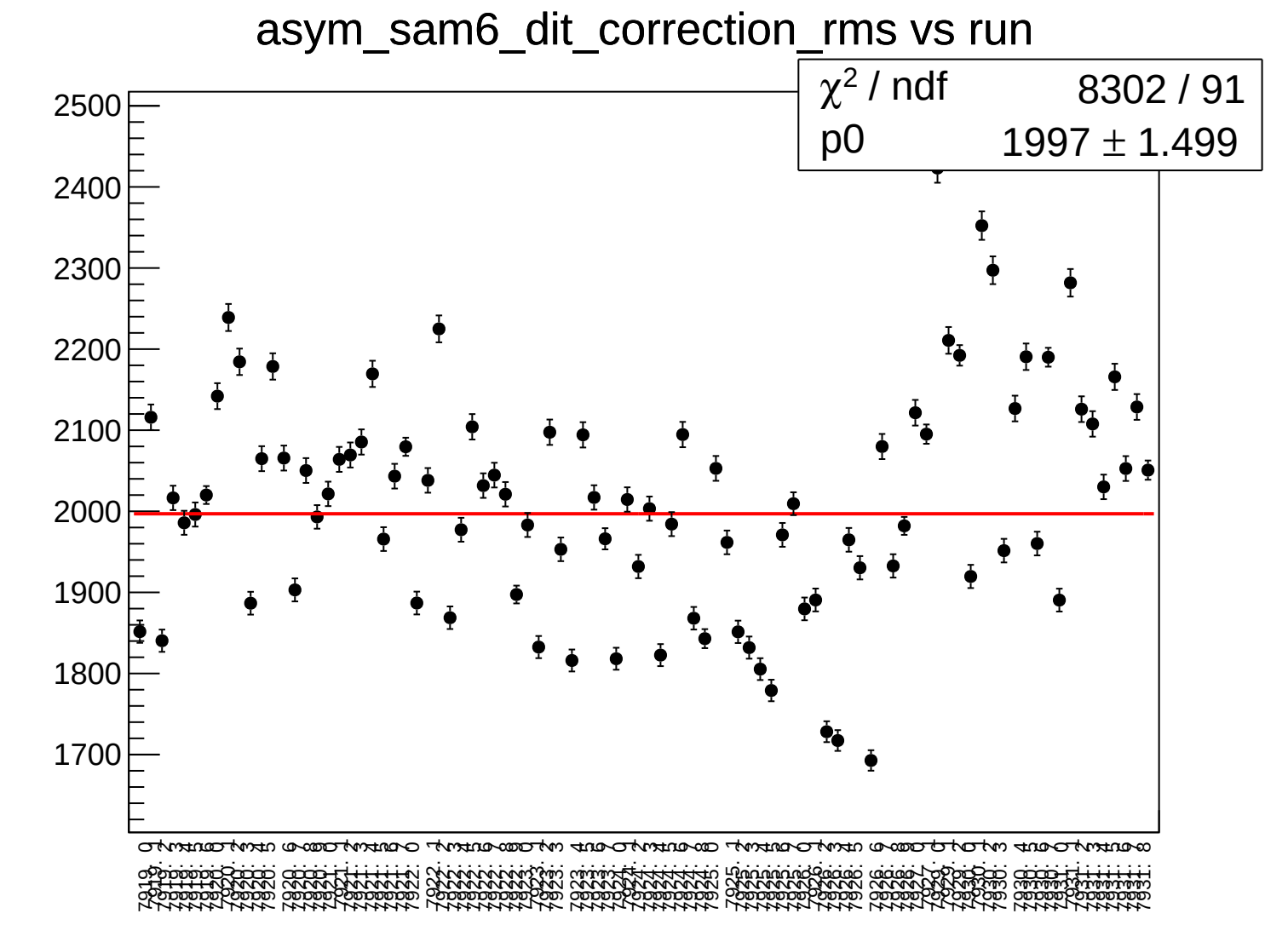

dit_asym_sam6_mean vs run
χ^2 / ndf 78.36 / 91
p0 109.5 ± 238.6
pull
Entries 92
Mean −471.7
Std Dev 0

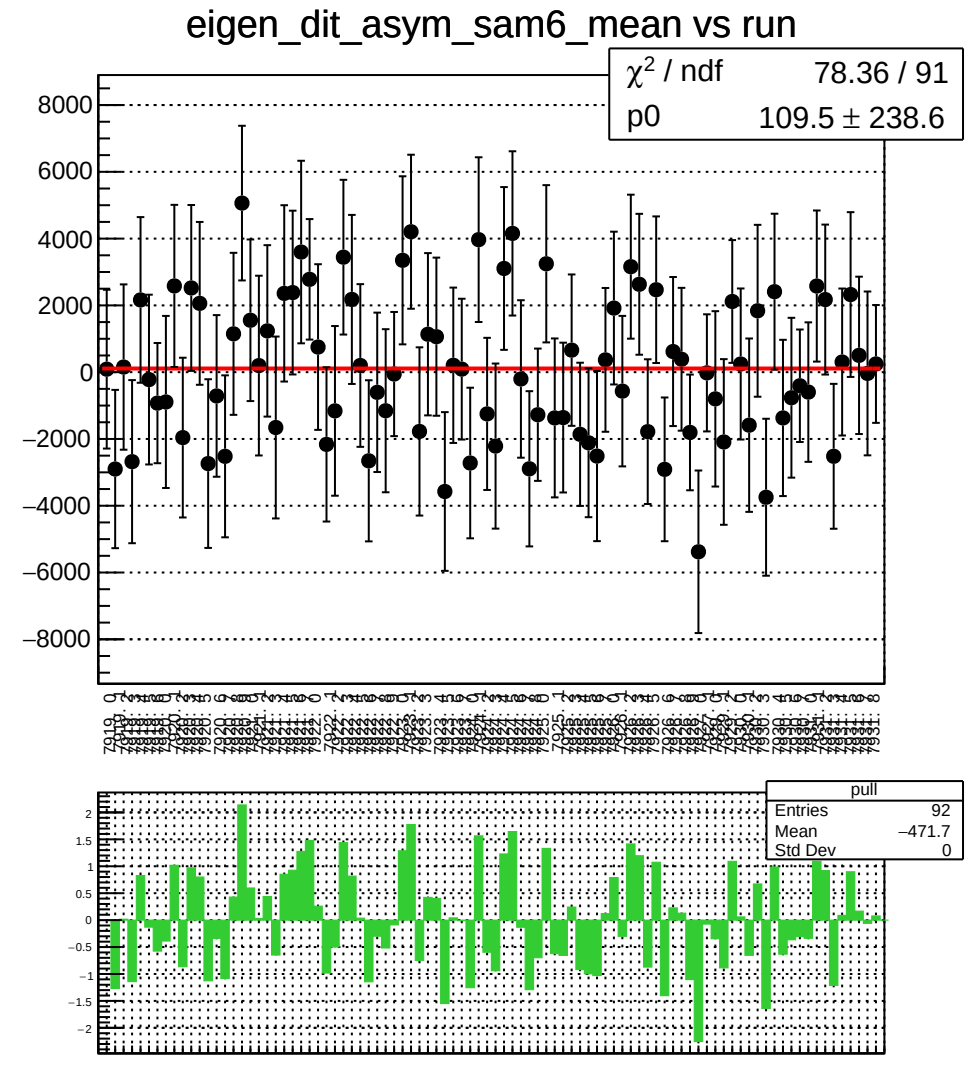

pull1D
Entries 92
Mean 0.003293
Std Dev 0.9229

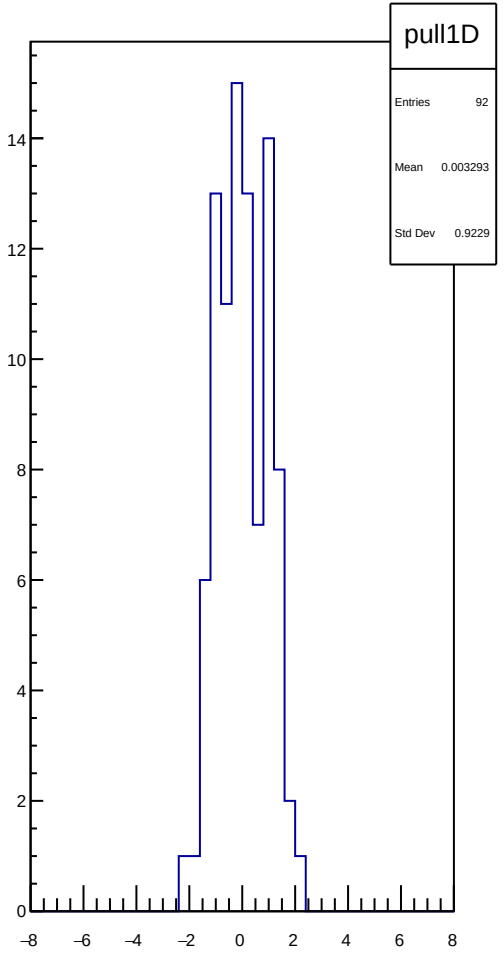

dit_asym_sam6_rms vs run
χ² / ndf 5466 / 91
p0 225 ± 0.1687
260
250
240
230
220
210
200

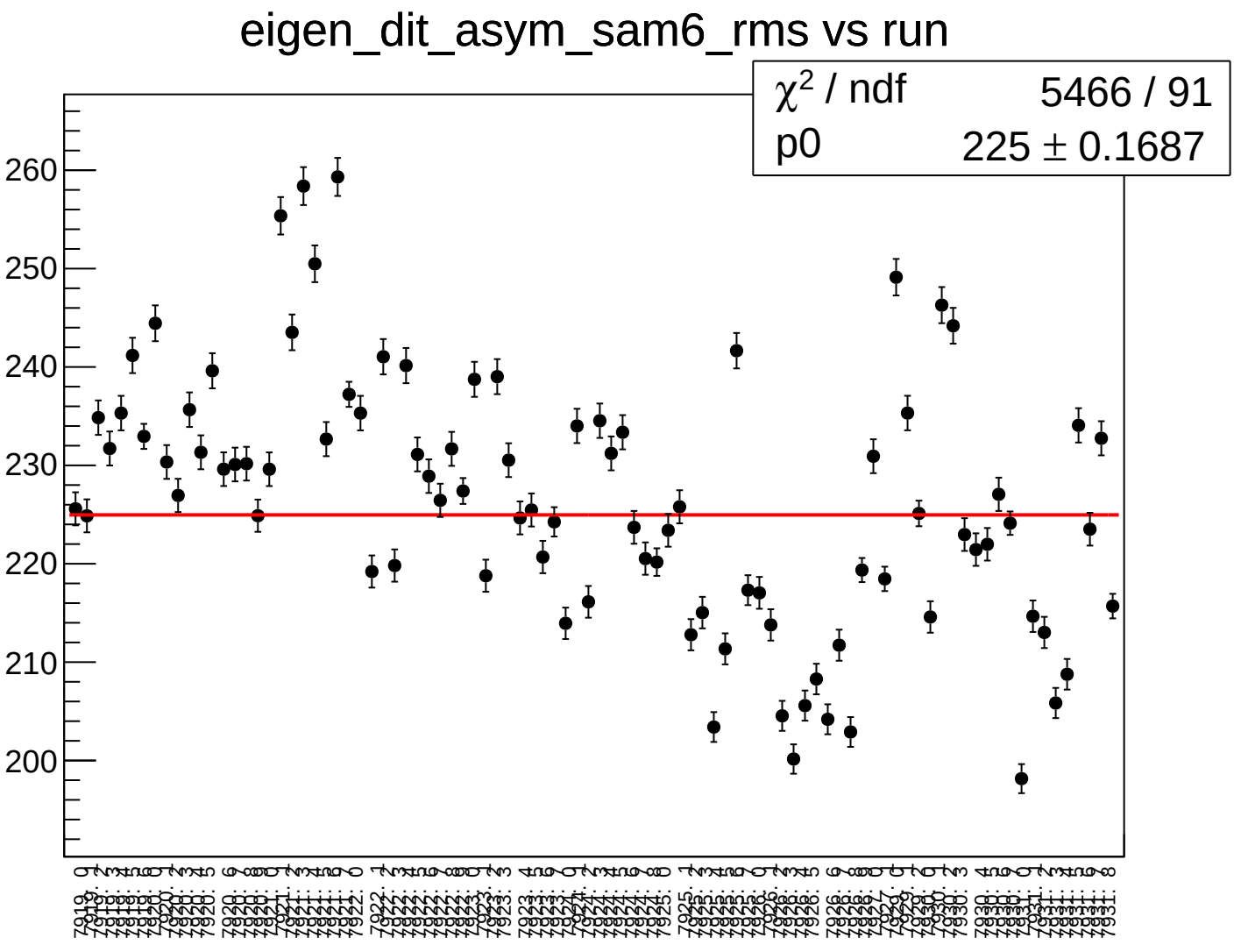

asym_sam6_dit_correction_mean vs run
×10^3
χ² / ndf 96.67 / 91
p0 2957 ± 2120
pull
Entries 92
Mean 5676
Std Dev 0

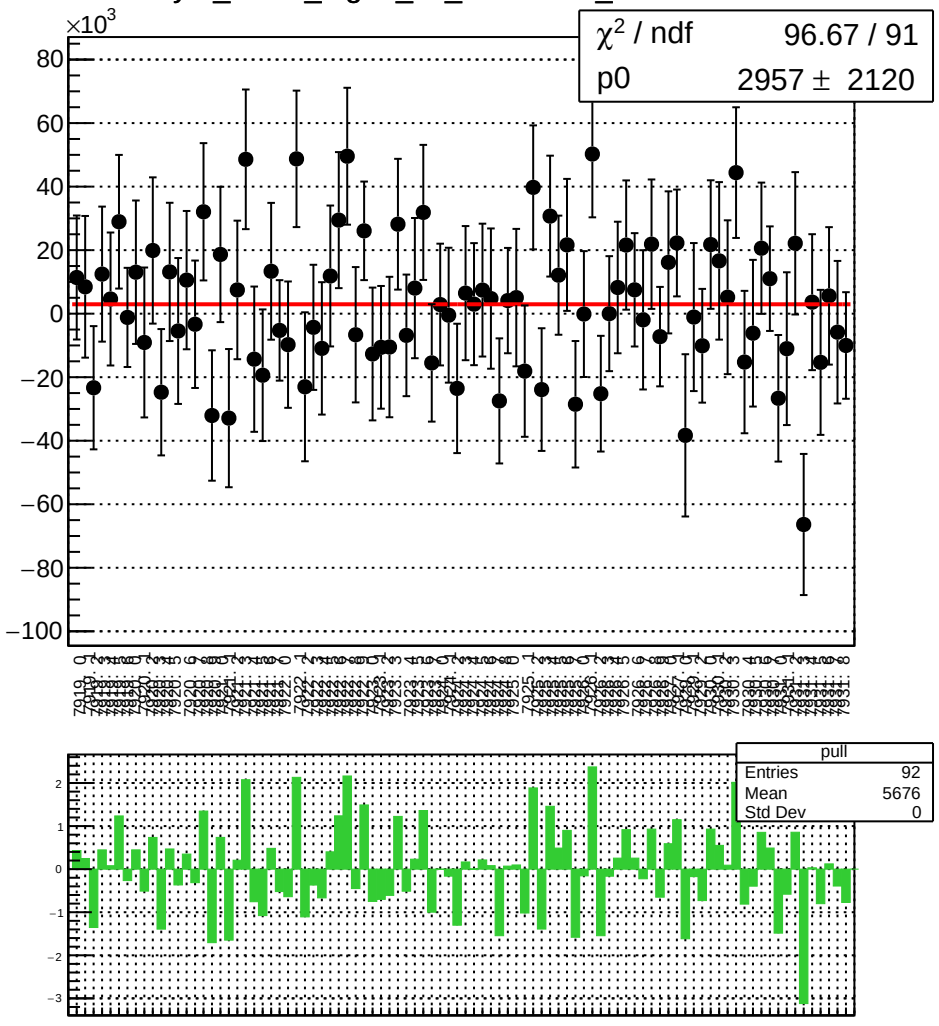

pull1D
Entries 92
Mean −0.0003073
Std Dev 1.025

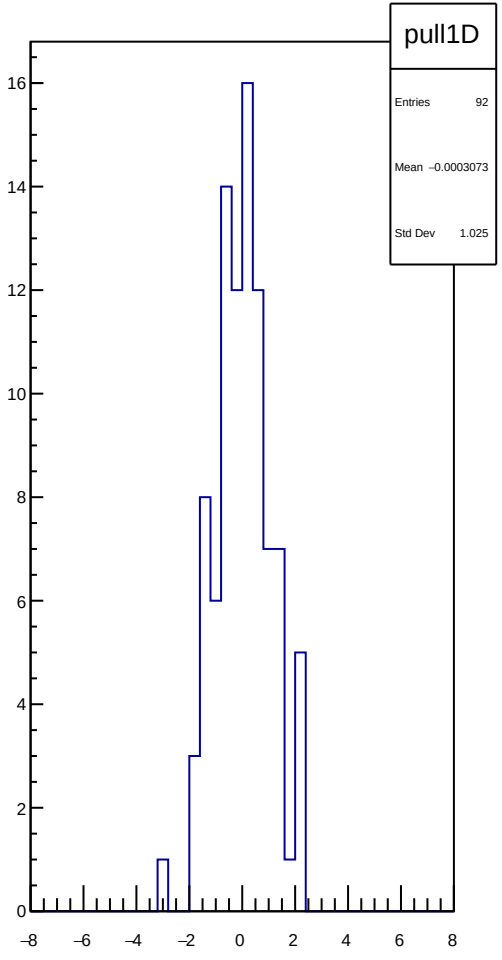

asym_sam6_dit_correction_rms vs run
χ² / ndf 8302 / 91
p0 1997 ± 1.499
2500
2400
2300
2200
2100
2000
1900
1800
1700

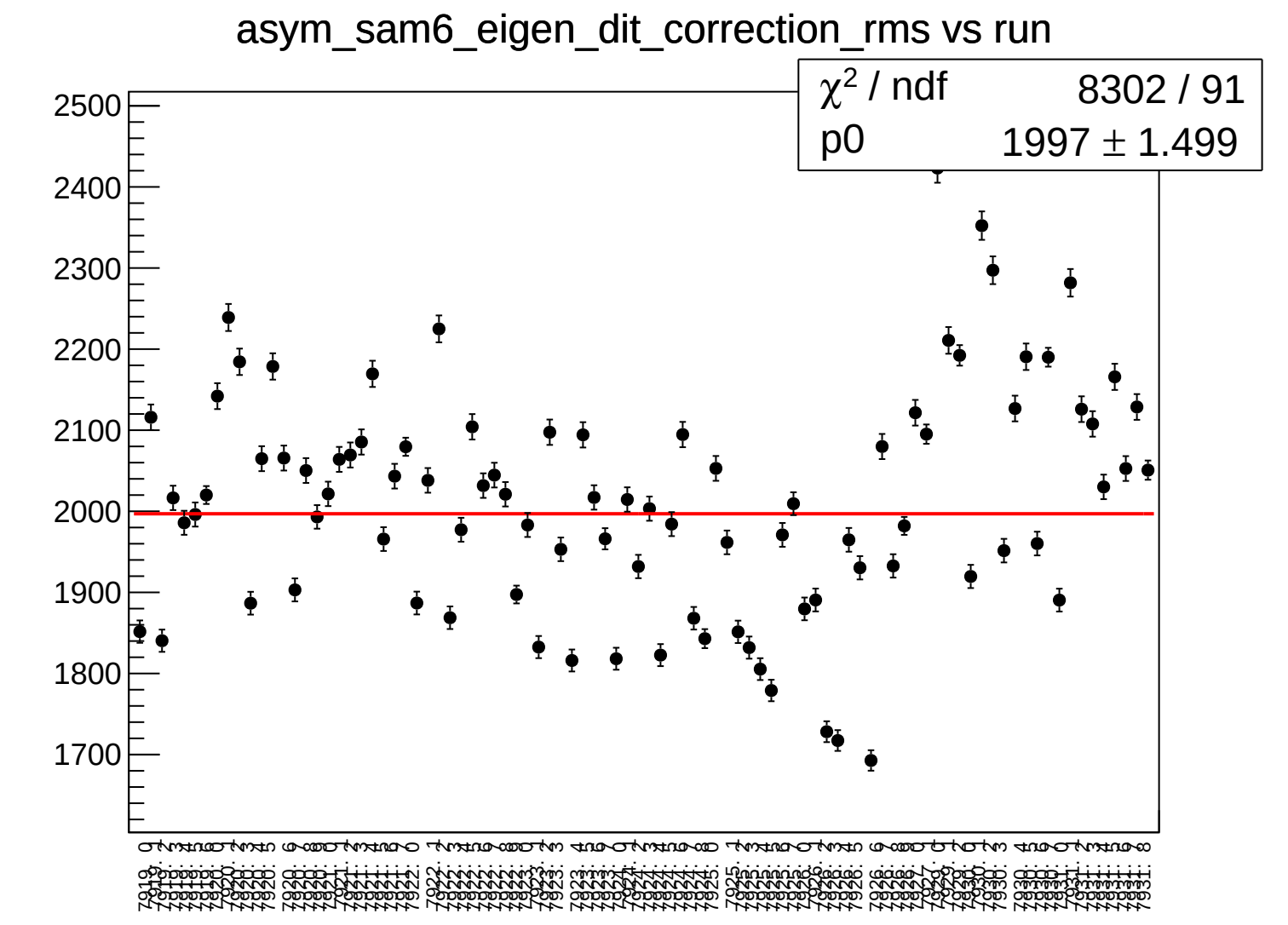

eigen_dit_asym_sam6_mean vs run
χ² / ndf 78.36 / 91
p0 109.5 ± 238.6
pull
Entries 92
Mean −471.7
Std Dev 0

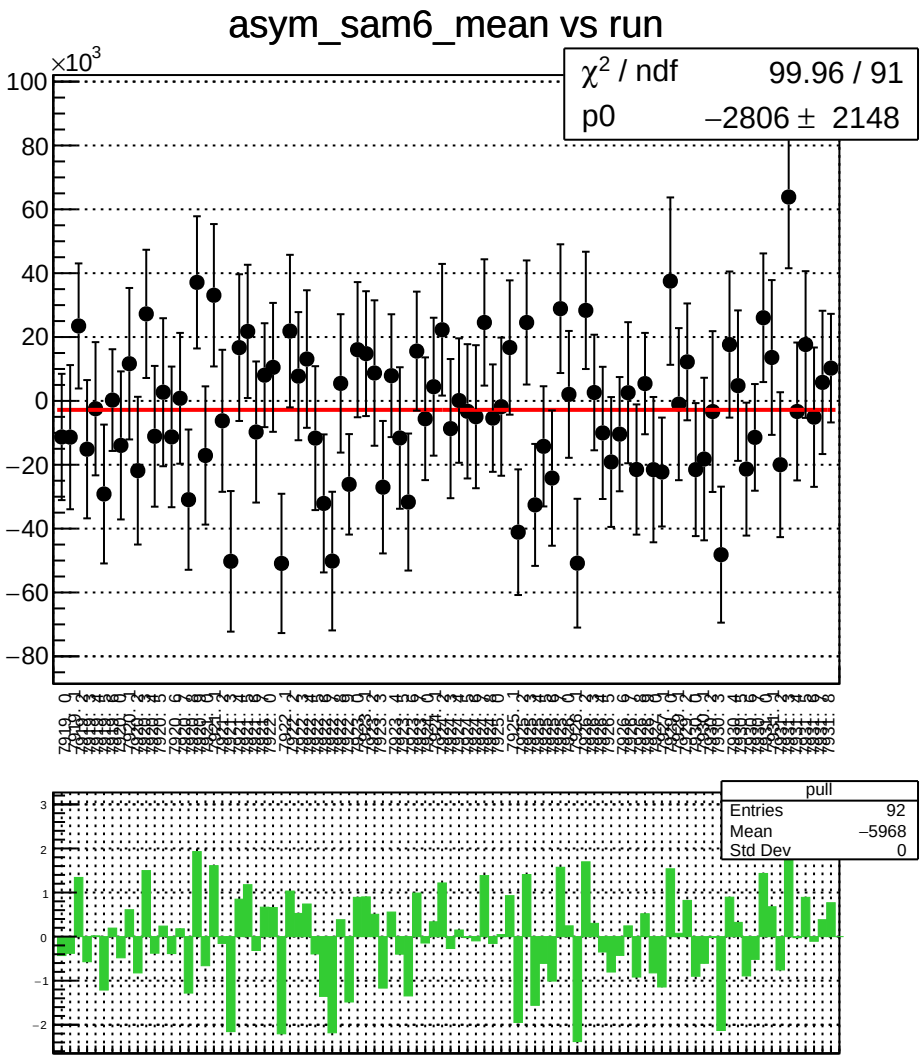

pull1D
Entries 92
Mean 0.003293
Std Dev 0.9229

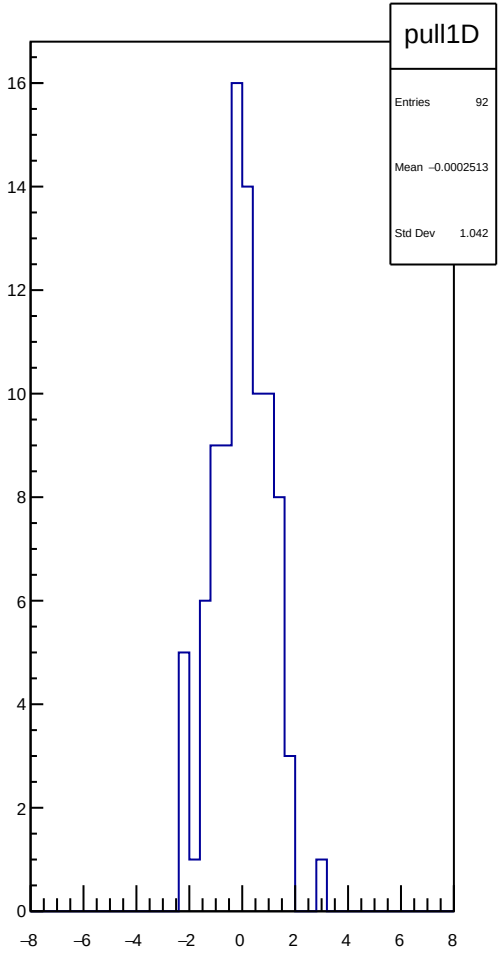

eigen_dit_asym_sam6_rms vs run
χ^2 / ndf 5466 / 91
p0 225 ± 0.1687
260
250
240
230
220
210
200

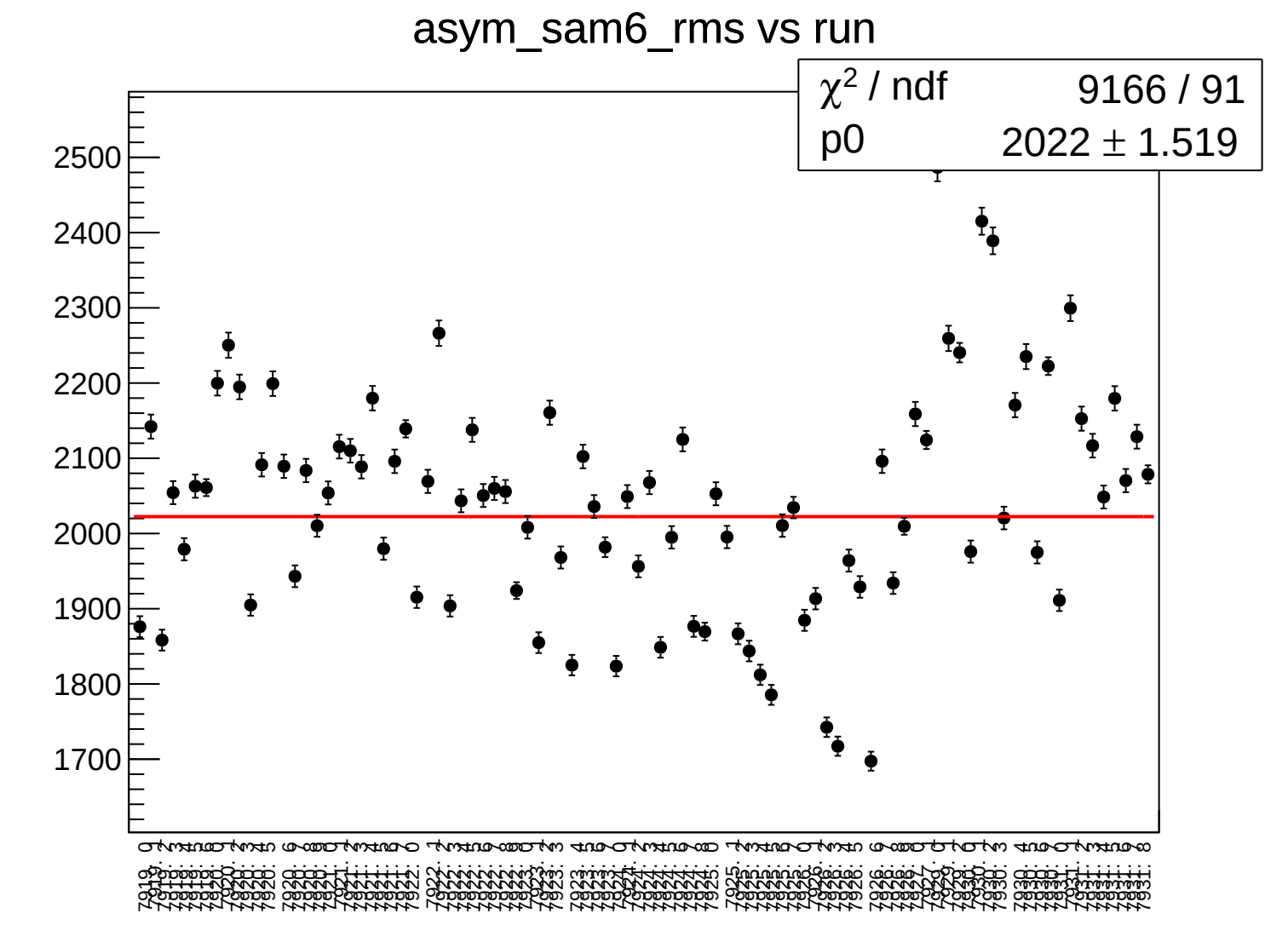

asym_sam6_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 96.67 / 91
p0 2957 ± 2120
pull
Entries 92
Mean 5676
Std Dev 0

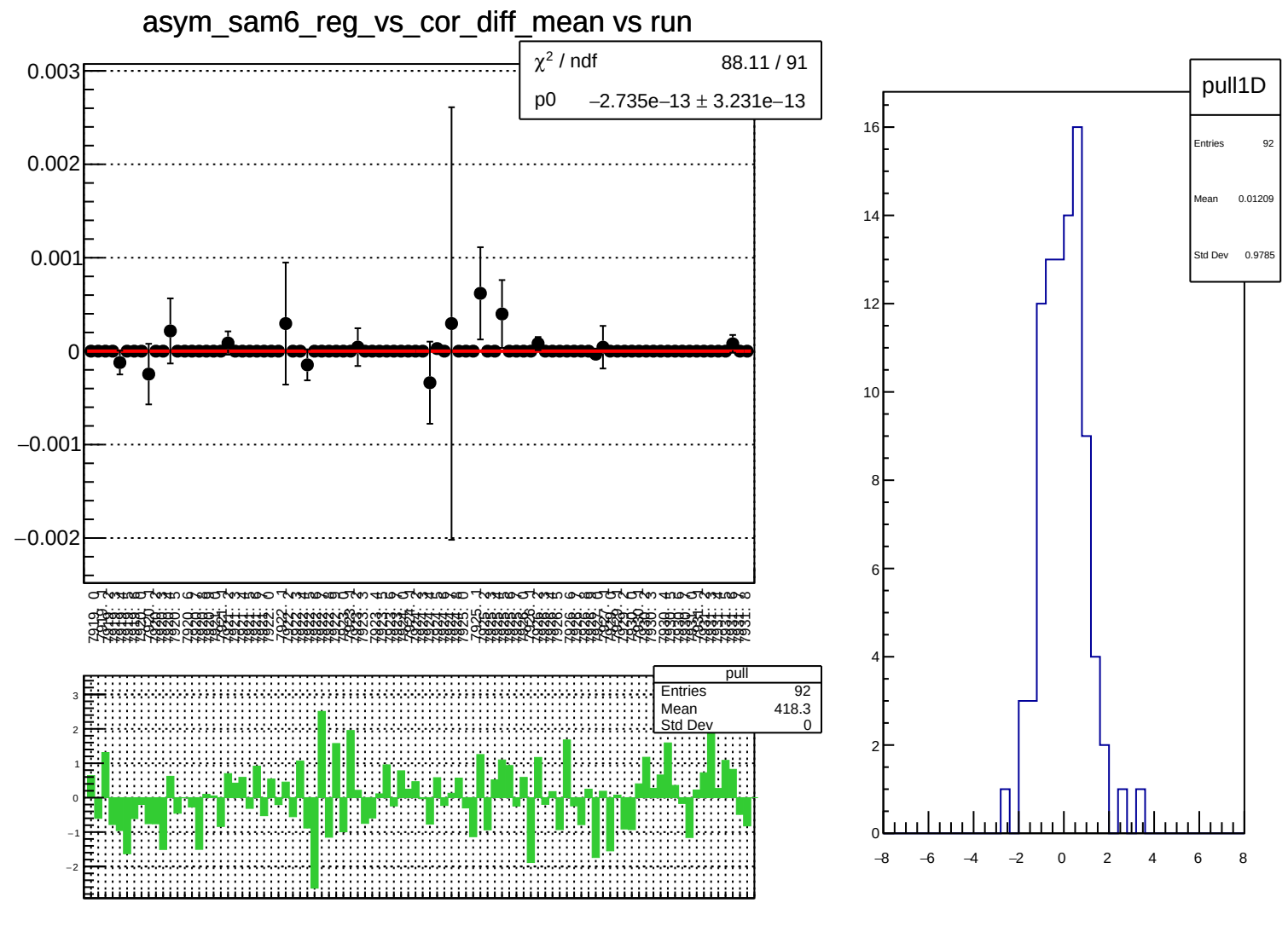

pull1D
Entries 92
Mean −0.0003073
Std Dev 1.025

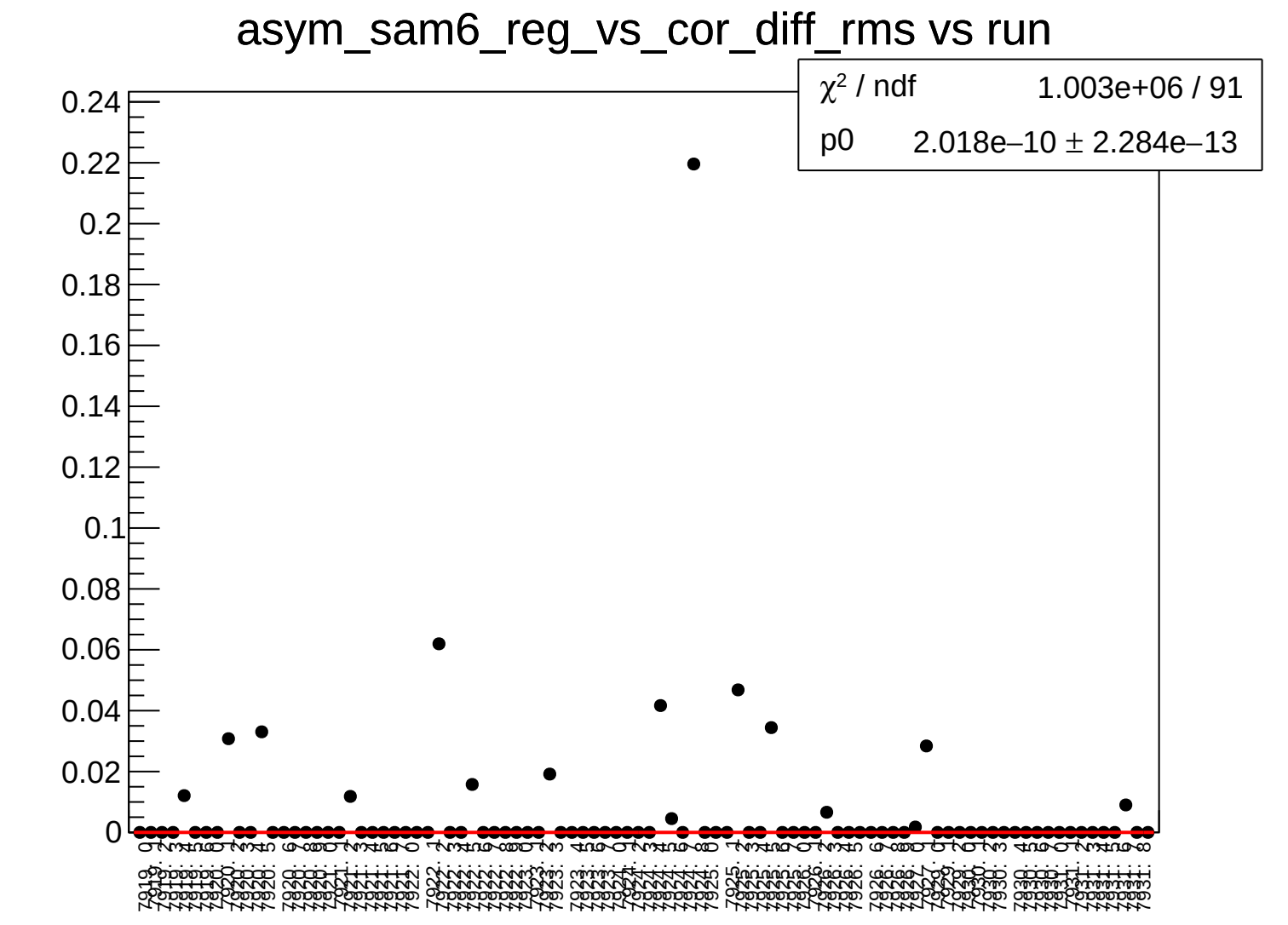

asym_sam6_eigen_dit_correction_rms vs run
χ² / ndf 8302 / 91
p0 1997 ± 1.499
2500
2400
2300
2200
2100
2000
1900
1800
1700

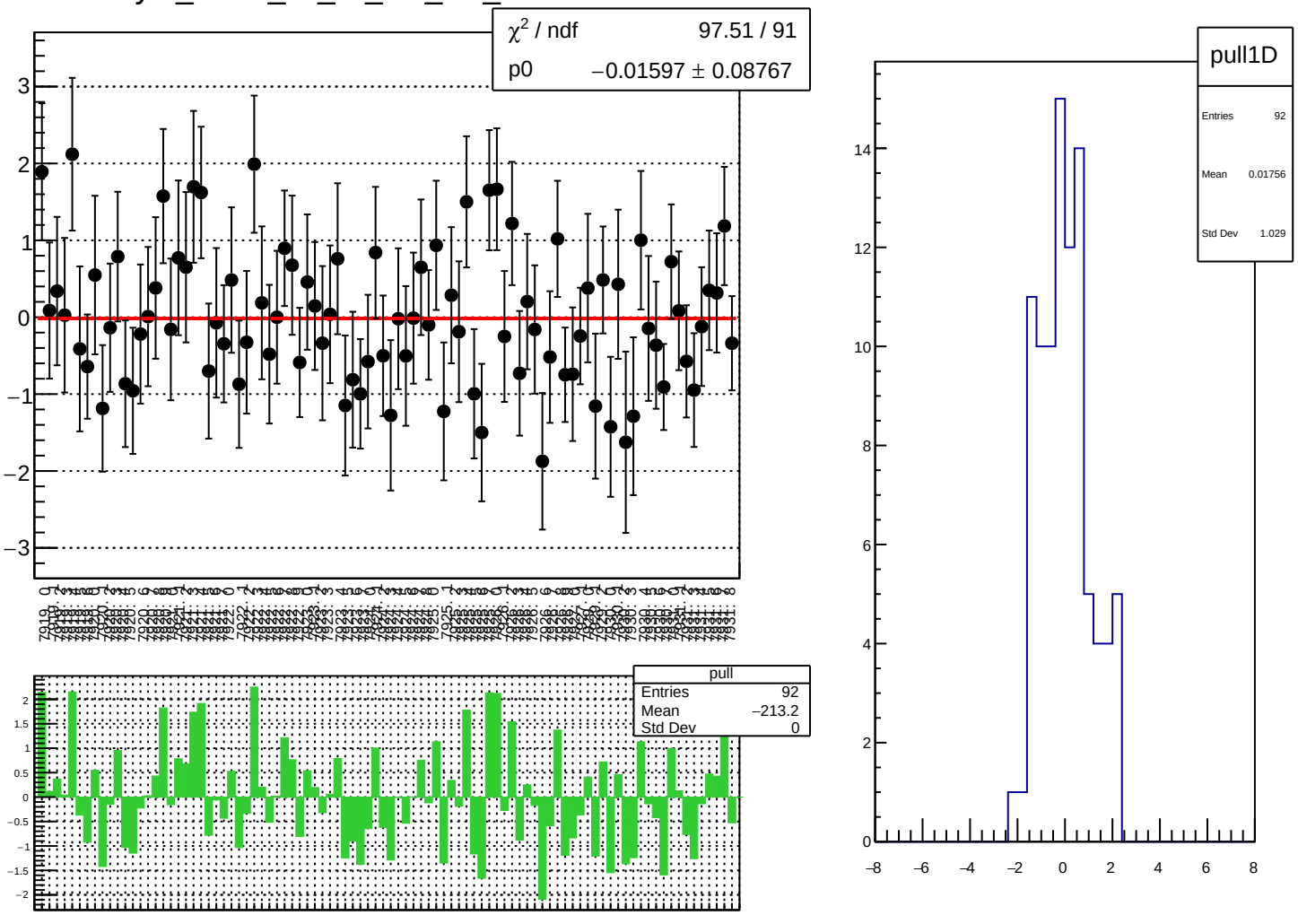

asym_sam6_mean vs run
χ^2 / ndf 99.96 / 91
p0 −2806 ± 2148
×10^3
pull
Entries 92
Mean −5968
Std Dev 0

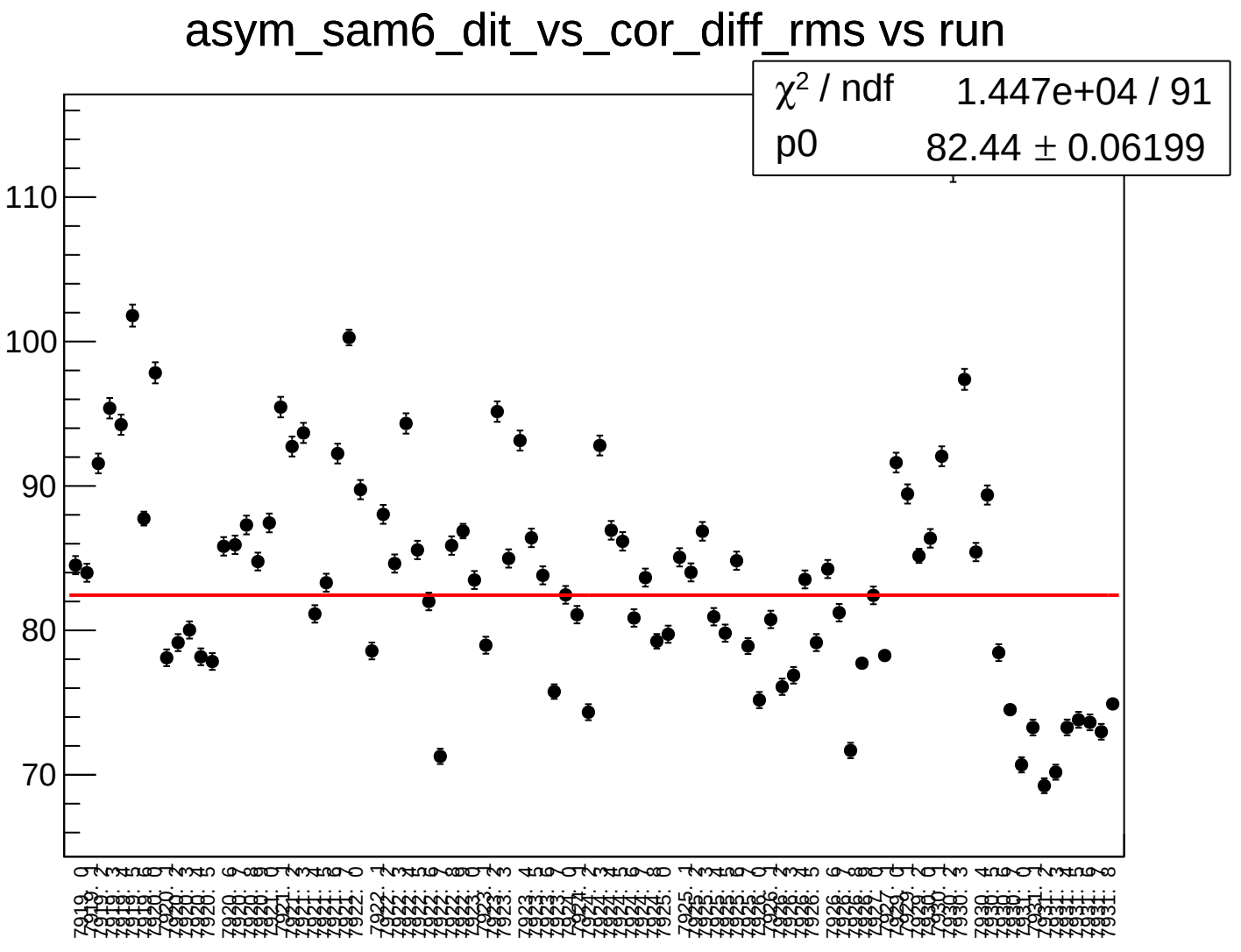

pull1D
Entries 92
Mean −0.0002513
Std Dev 1.042

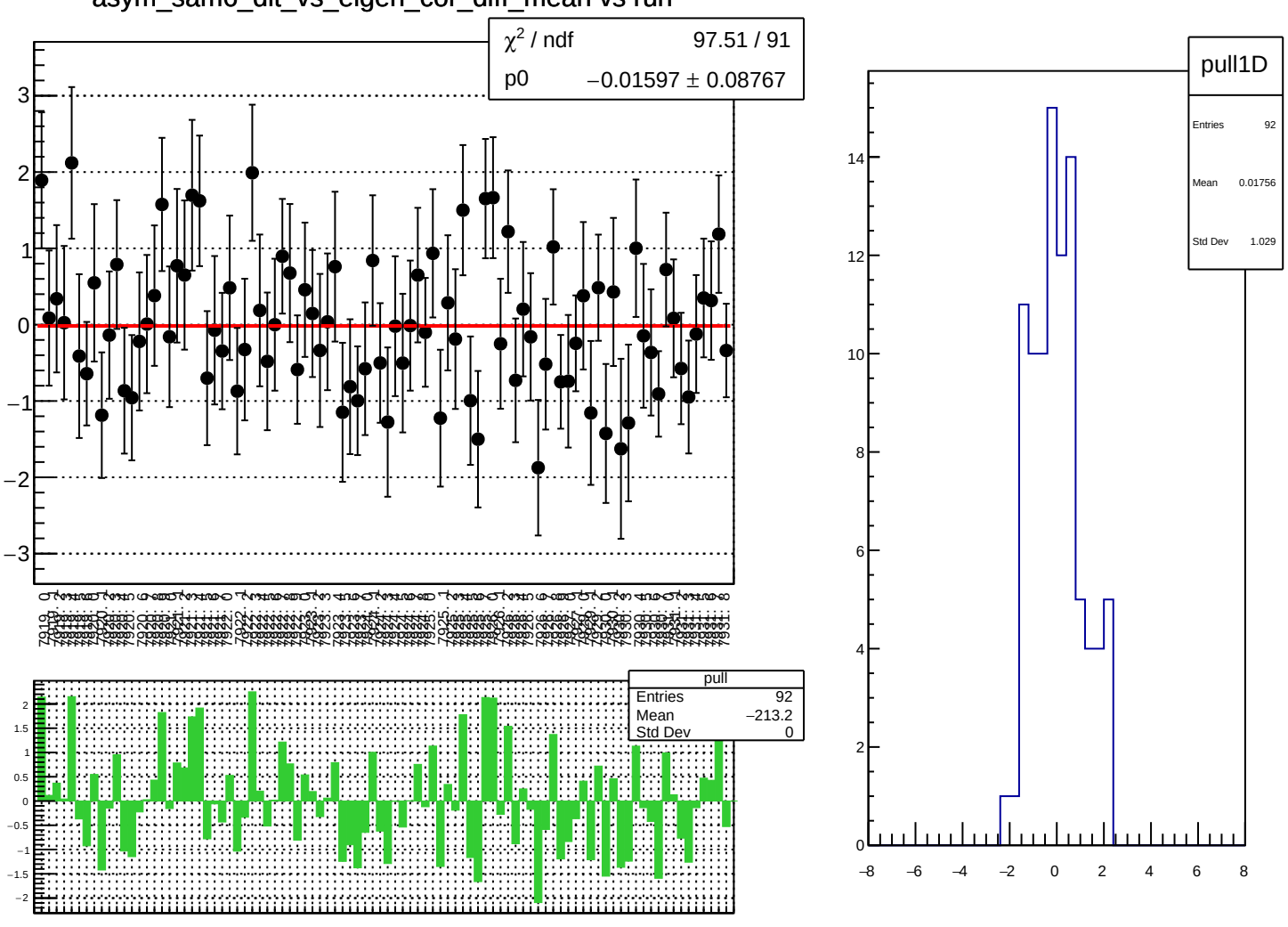

asym_sam6_rms vs run
χ^2 / ndf 9166 / 91
p0 2022 ± 1.519
2500
2400
2300
2200
2100
2000
1900
1800
1700

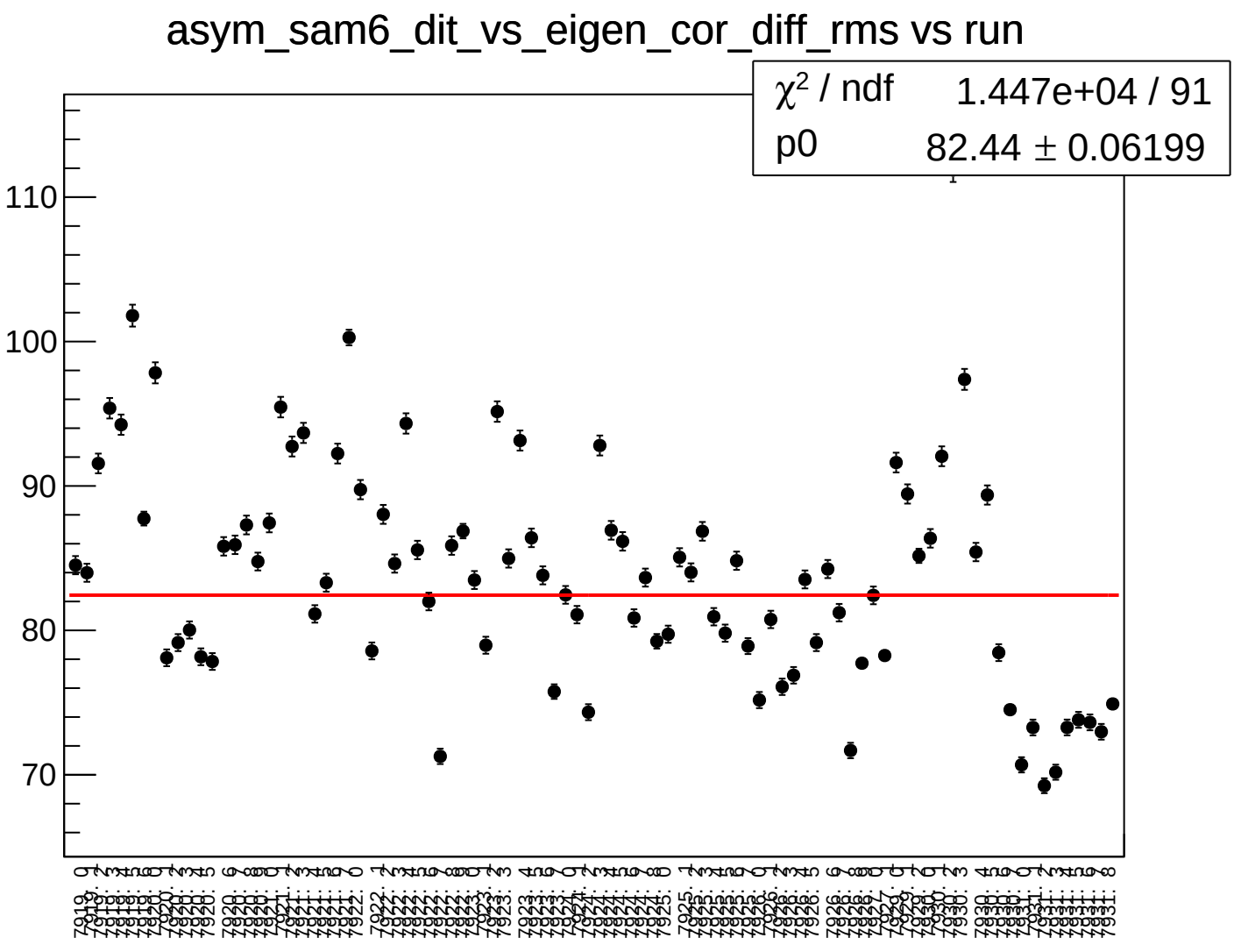

asym_sam6_reg_vs_cor_diff_mean vs run
χ² / ndf 88.11 / 91
p0 −2.735e−13 ± 3.231e−13
0.003
0.002
0.001
0
−0.001
−0.002
pull
Entries 92
Mean 418.3
Std Dev 0
pull1D
Entries 92
Mean 0.01209
Std Dev 0.9785

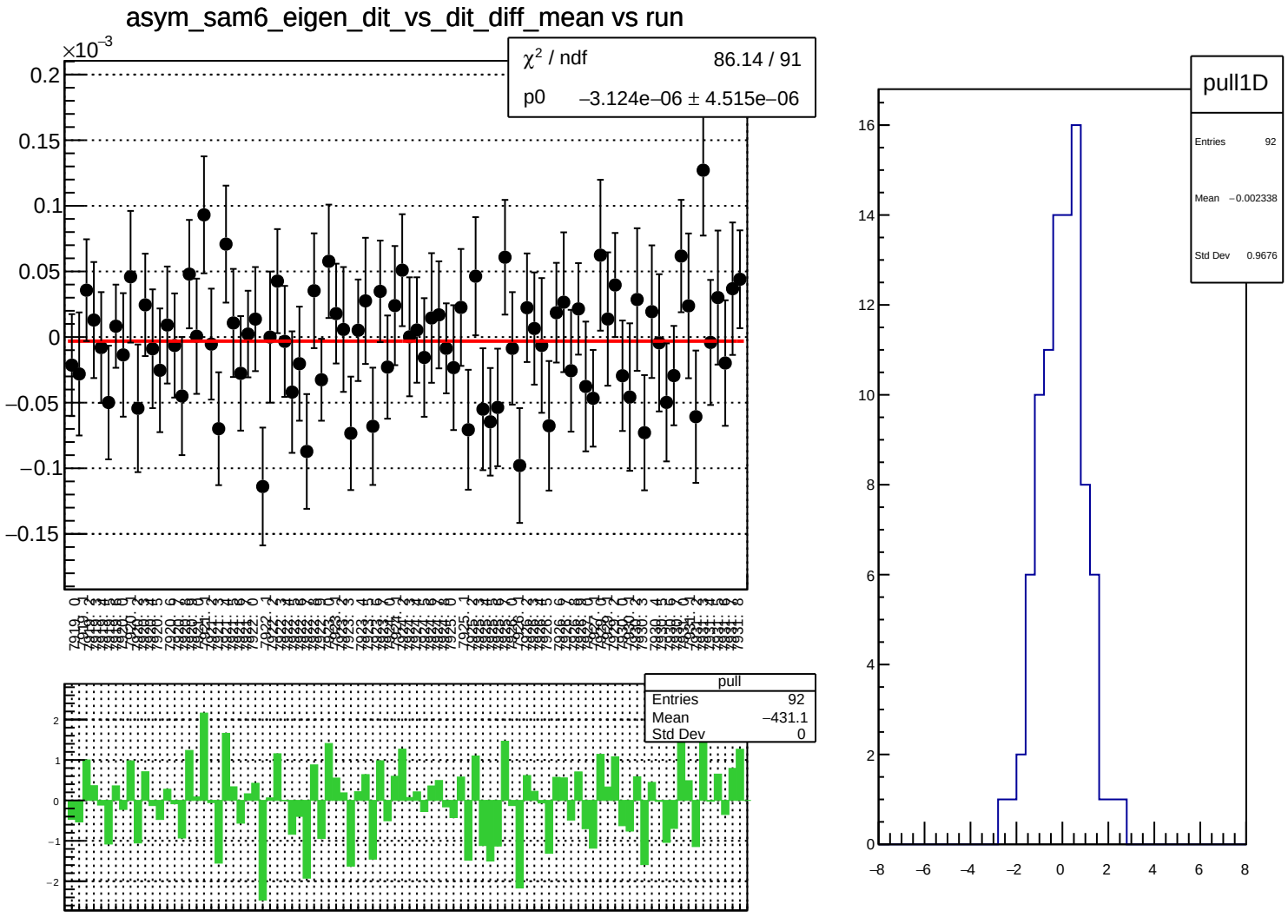

asym_sam6_reg_vs_cor_diff_rms vs run
χ² / ndf 1.003e+06 / 91
p0 2.018e−10 ± 2.284e−13
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

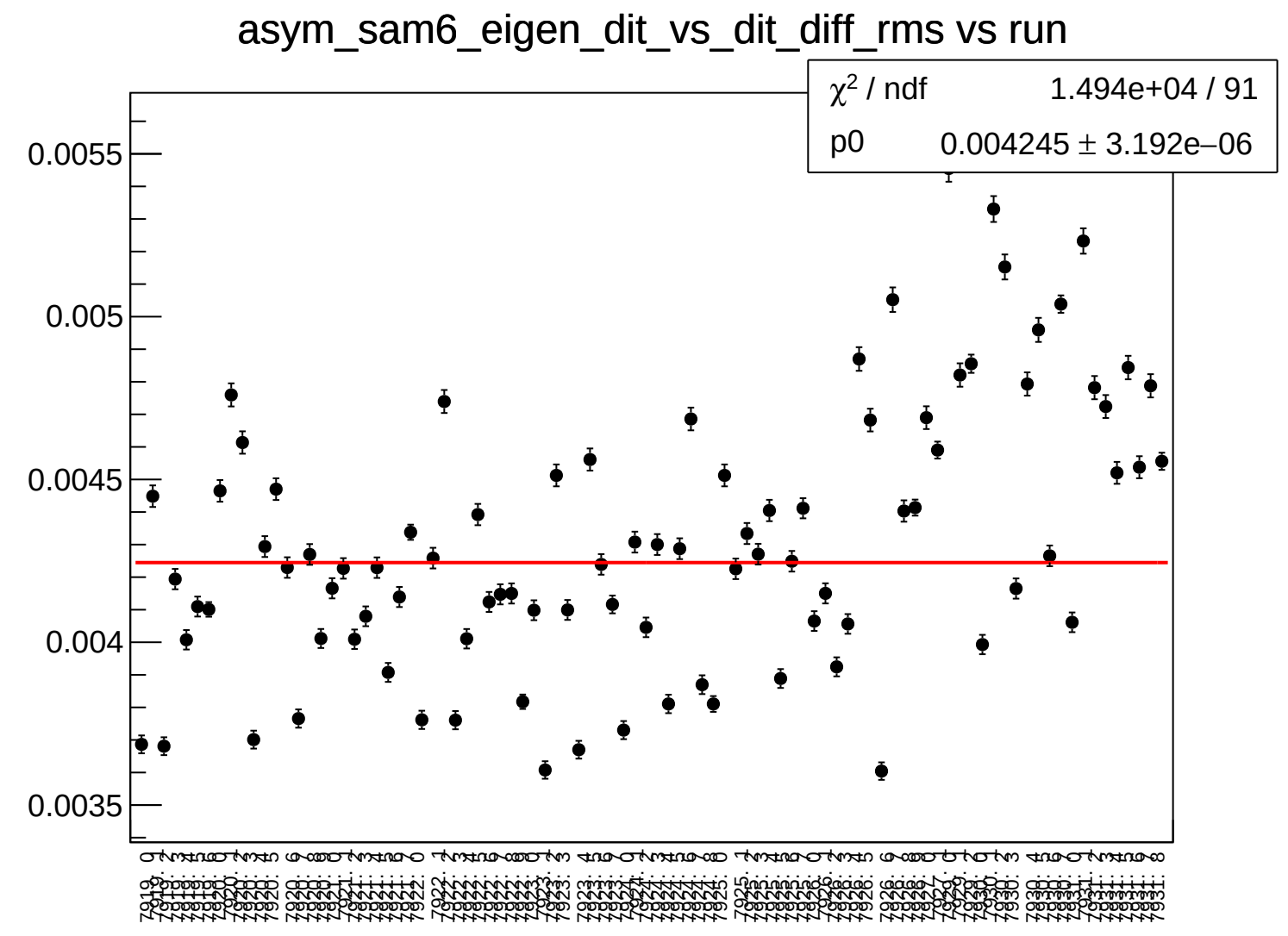

asym_sam6_dit_vs_cor_diff_mean vs run
χ² / ndf 97.51 / 91
p0 −0.01597 ± 0.08767
pull
Entries 92
Mean −213.2
Std Dev 0
pull1D
Entries 92
Mean 0.01756
Std Dev 1.029

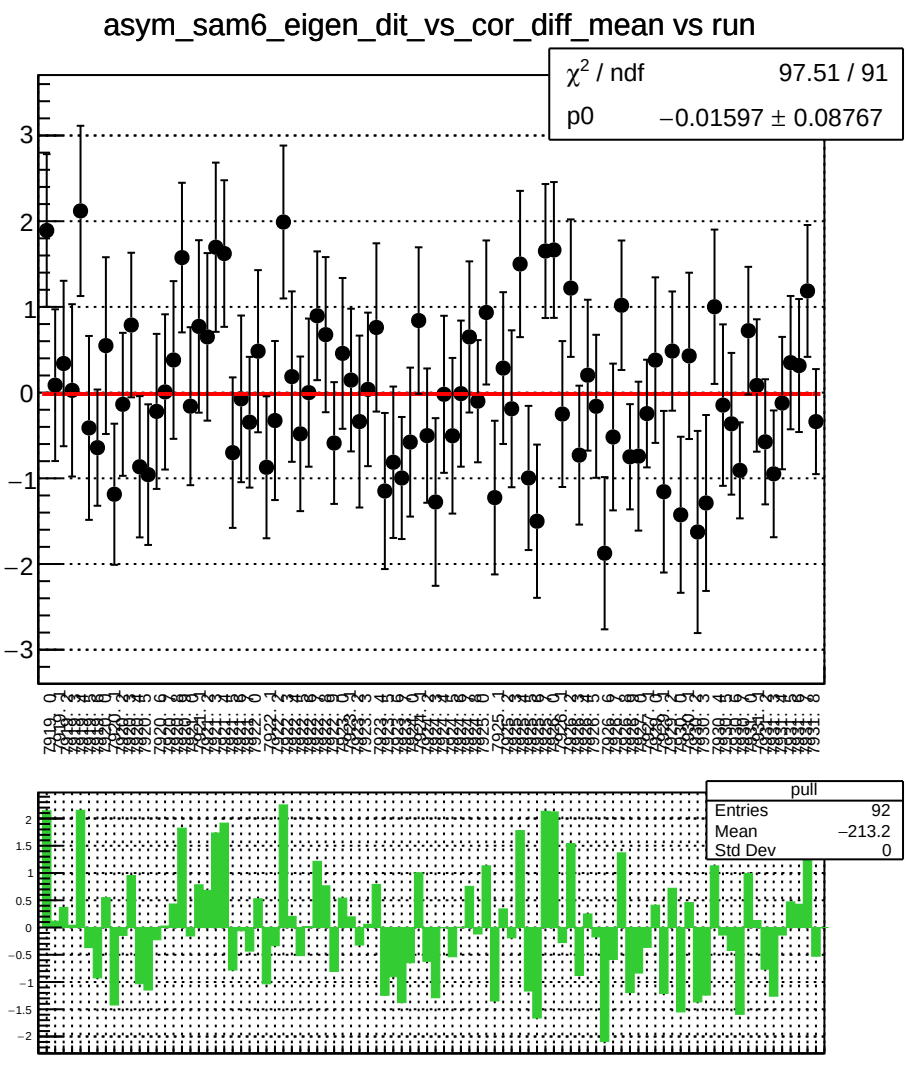

asym_sam6_dit_vs_cor_diff_rms vs run
χ² / ndf 1.447e+04 / 91
p0 82.44 ± 0.06199
110
100
90
80
70

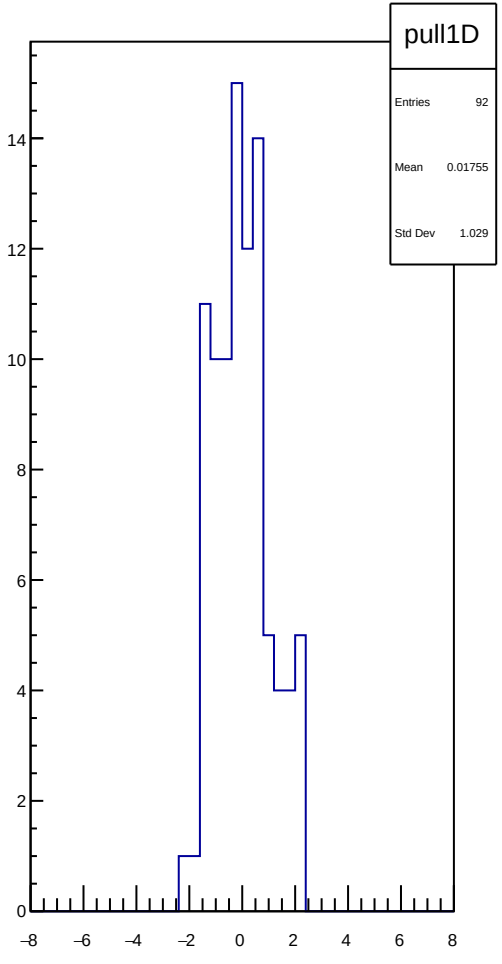

asym_sam6_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.51 / 91
p0 −0.01597 ± 0.08767
pull
Entries 92
Mean −213.2
Std Dev 0
pull1D
Entries 92
Mean 0.01756
Std Dev 1.029

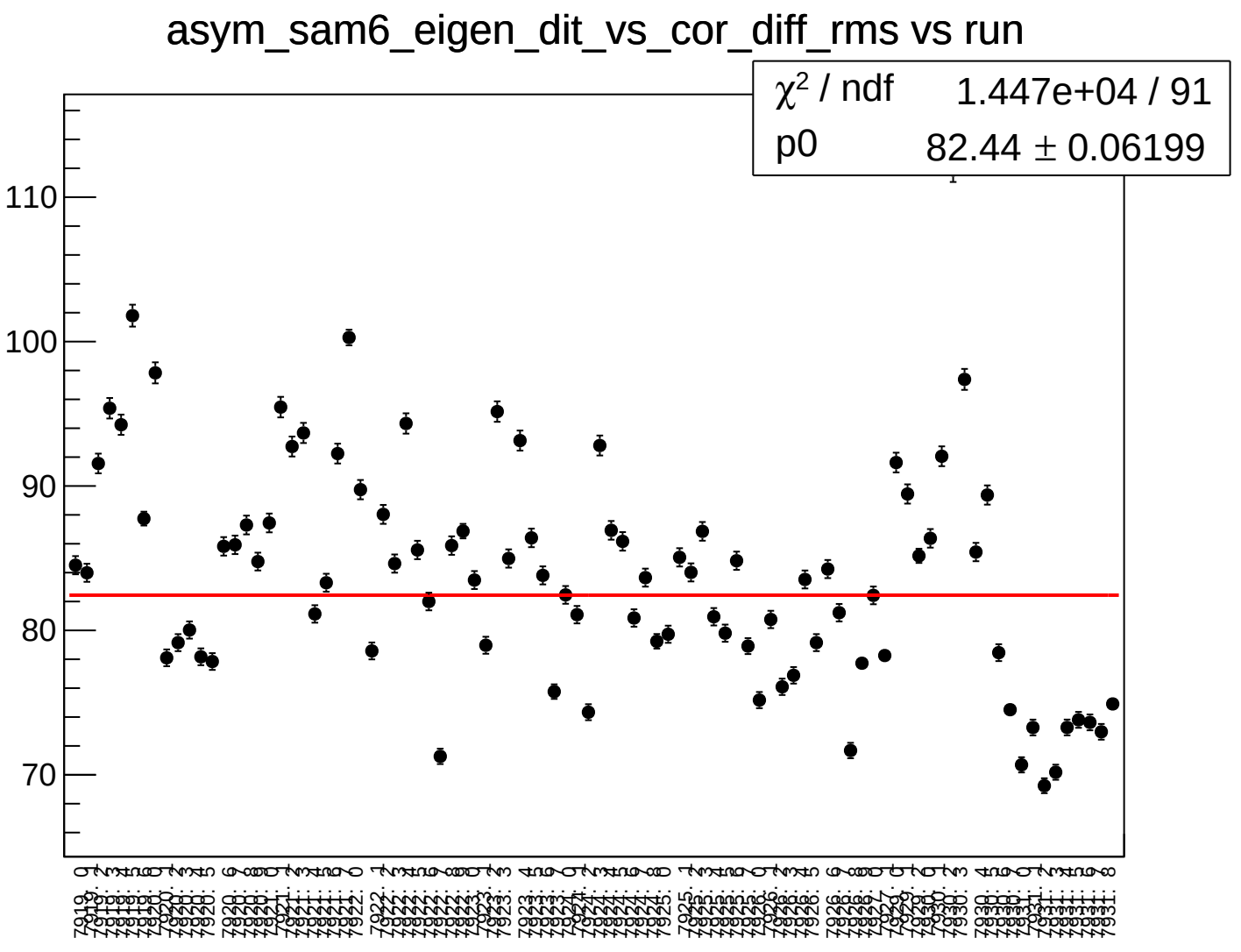

asym_sam6_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.447e+04 / 91
p0 82.44 ± 0.06199
110
100
90
80
70

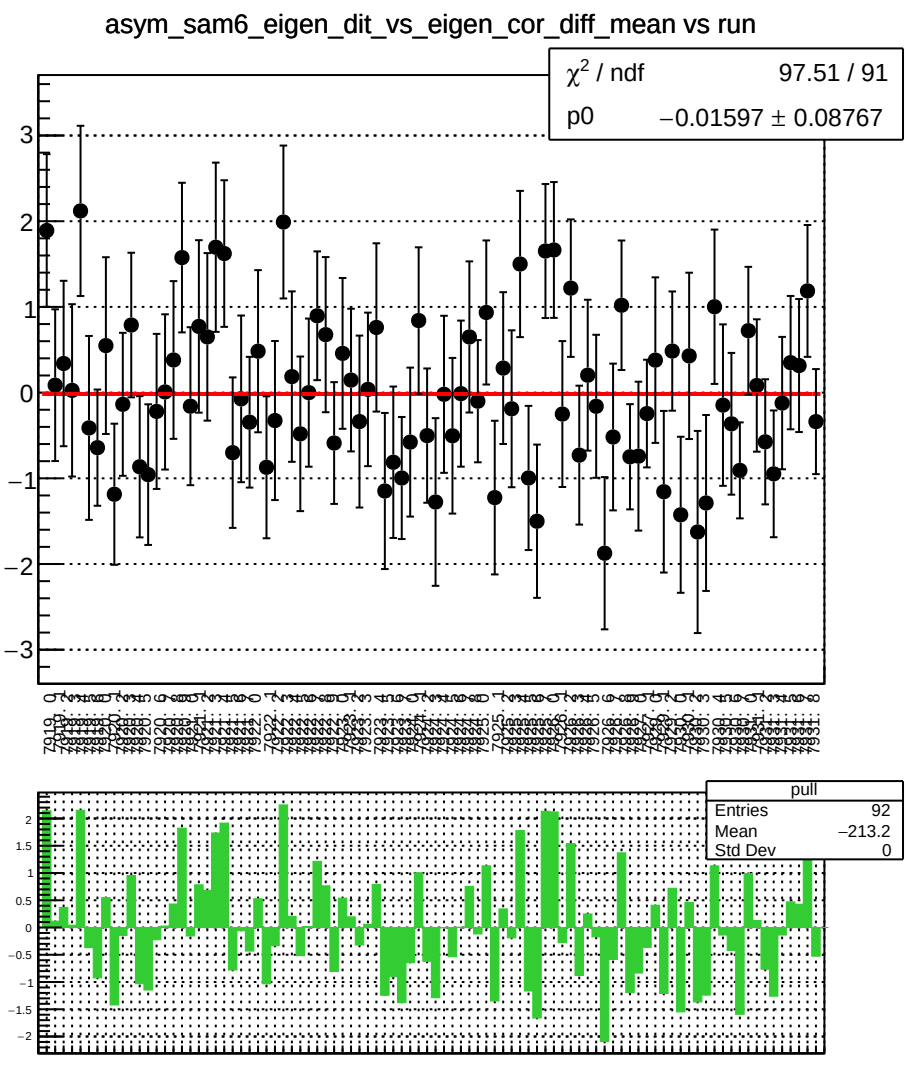

asym_sam6_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 86.14 / 91
p0 −3.124e−06 ± 4.515e−06
pull
Entries 92
Mean −431.1
Std Dev 0
pull1D
Entries 92
Mean −0.002338
Std Dev 0.9676

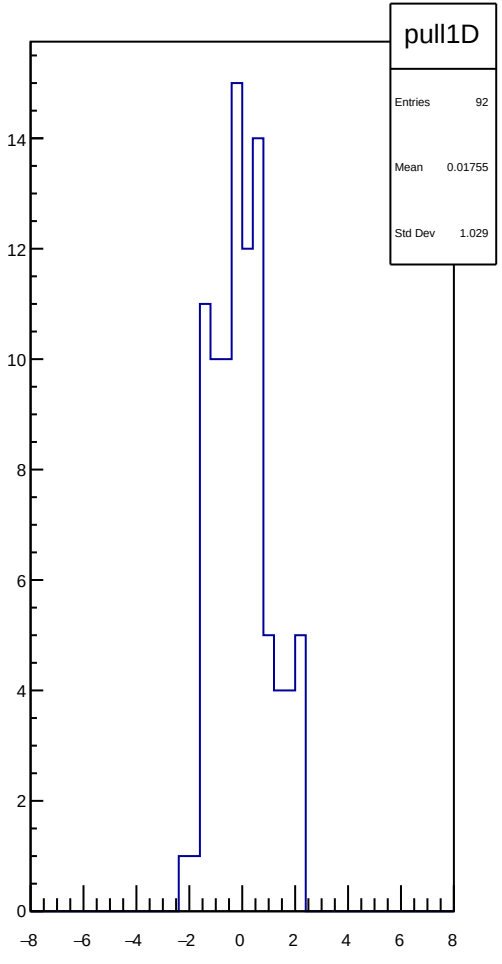

asym_sam6_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.494e+04 / 91
p0 0.004245 ± 3.192e−06
0.0055
0.005
0.0045
0.004
0.0035

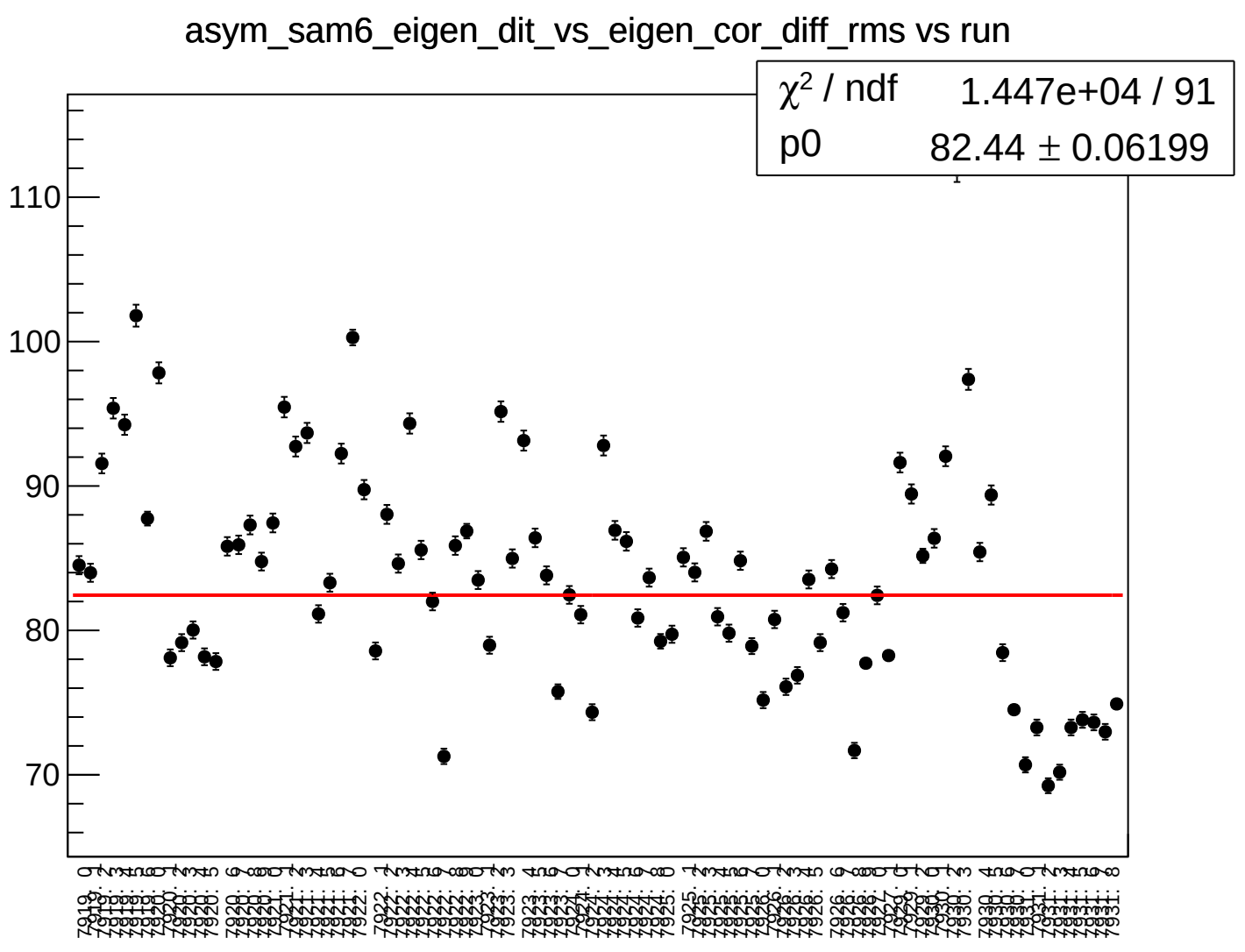

asym_sam6_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 97.51 / 91
p0 −0.01597 ± 0.08767
pull
Entries 92
Mean −213.2
Std Dev 0

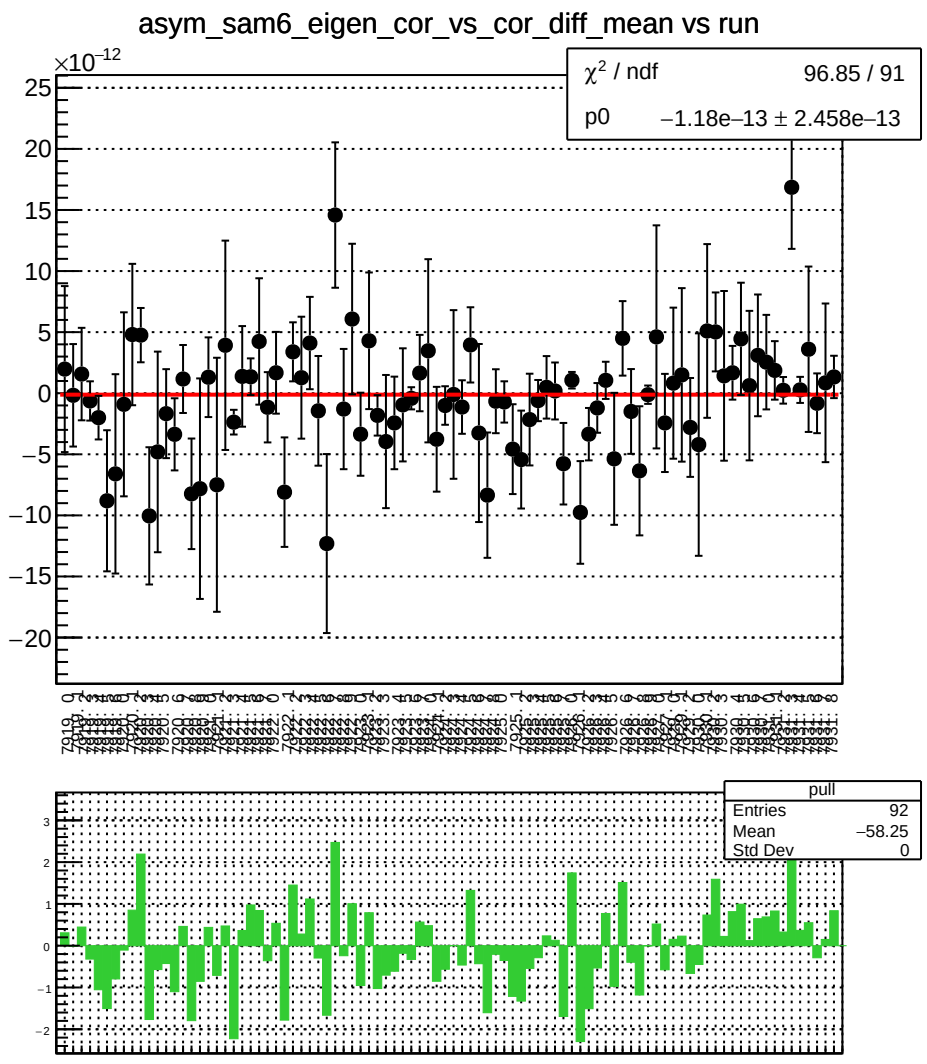

pull1D
Entries 92
Mean 0.01755
Std Dev 1.029

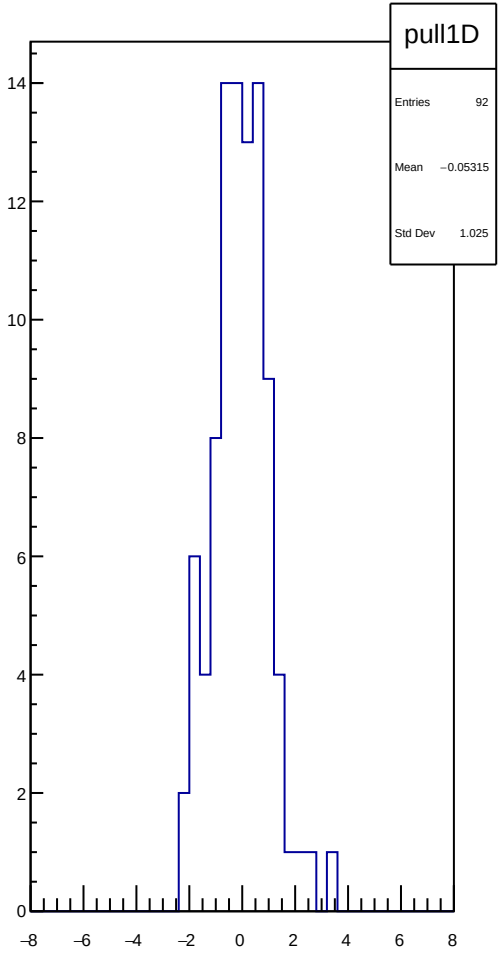

asym_sam6_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.447e+04 / 91
p0 82.44 ± 0.06199
110
100
90
80
70

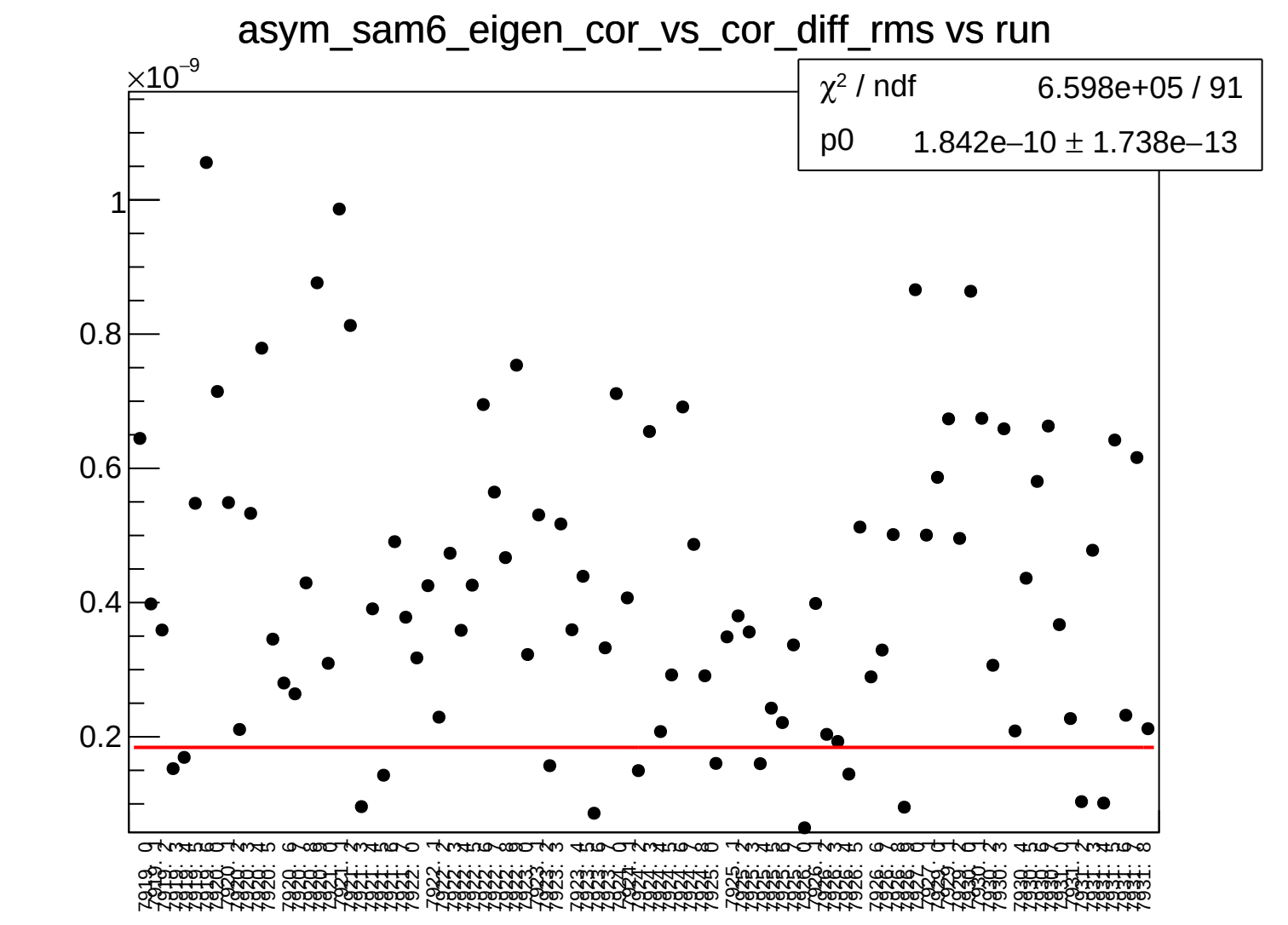

asym_sam6_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.51 / 91
p0 −0.01597 ± 0.08767
pull
Entries 92
Mean −213.2
Std Dev 0

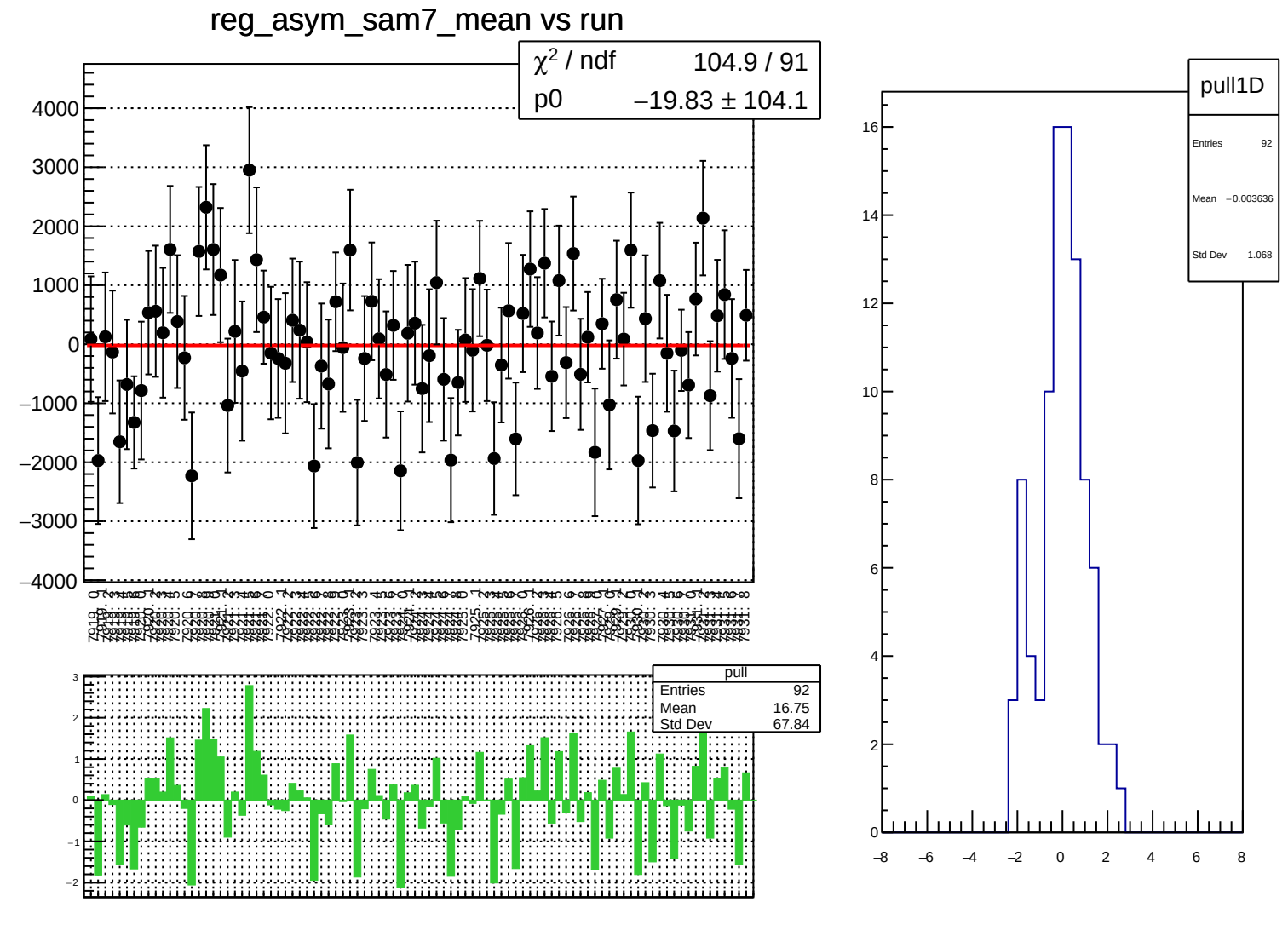

pull1D
Entries 92
Mean 0.01755
Std Dev 1.029

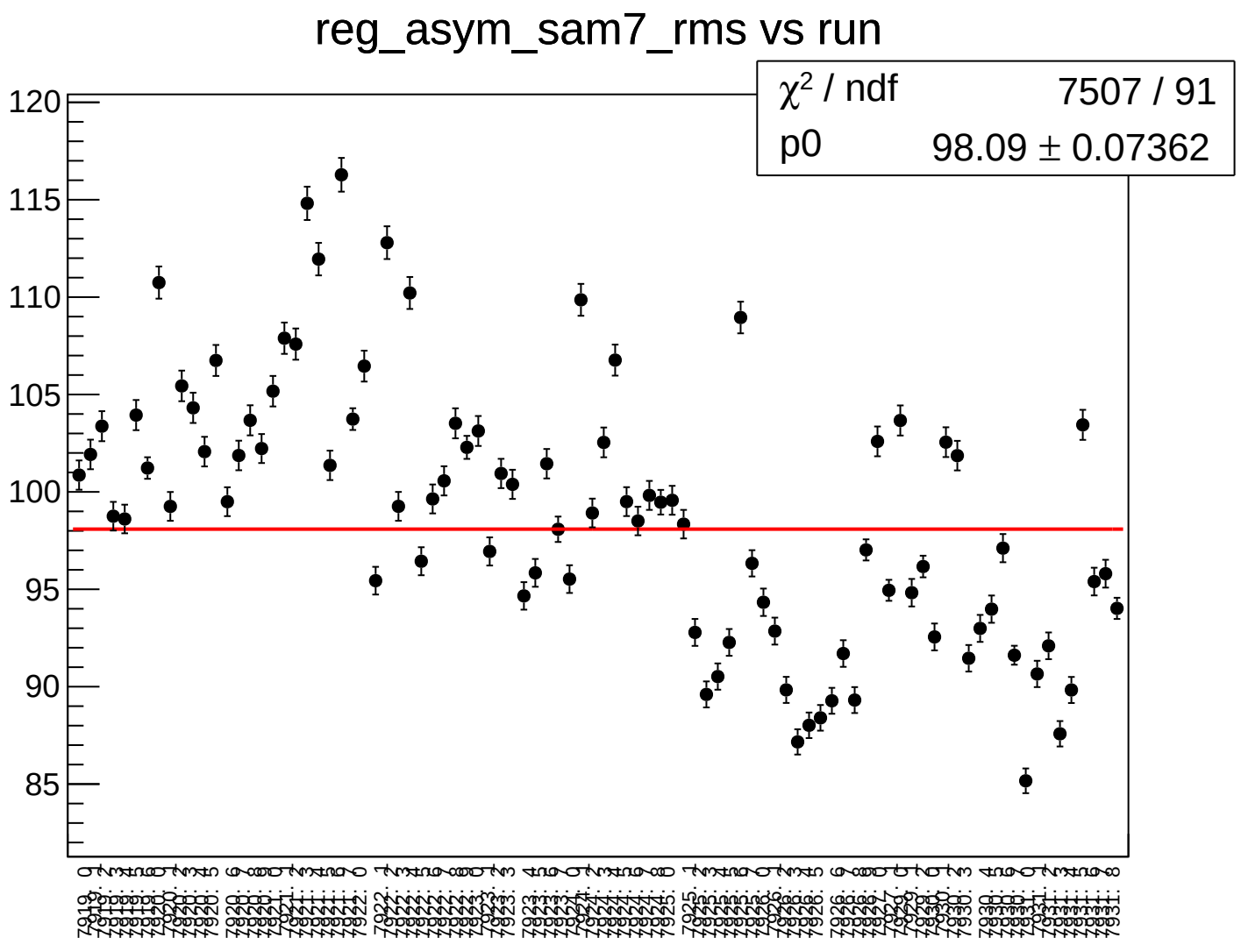

asym_sam6_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.447e+04 / 91
p0 82.44 ± 0.06199
110
100
90
80
70

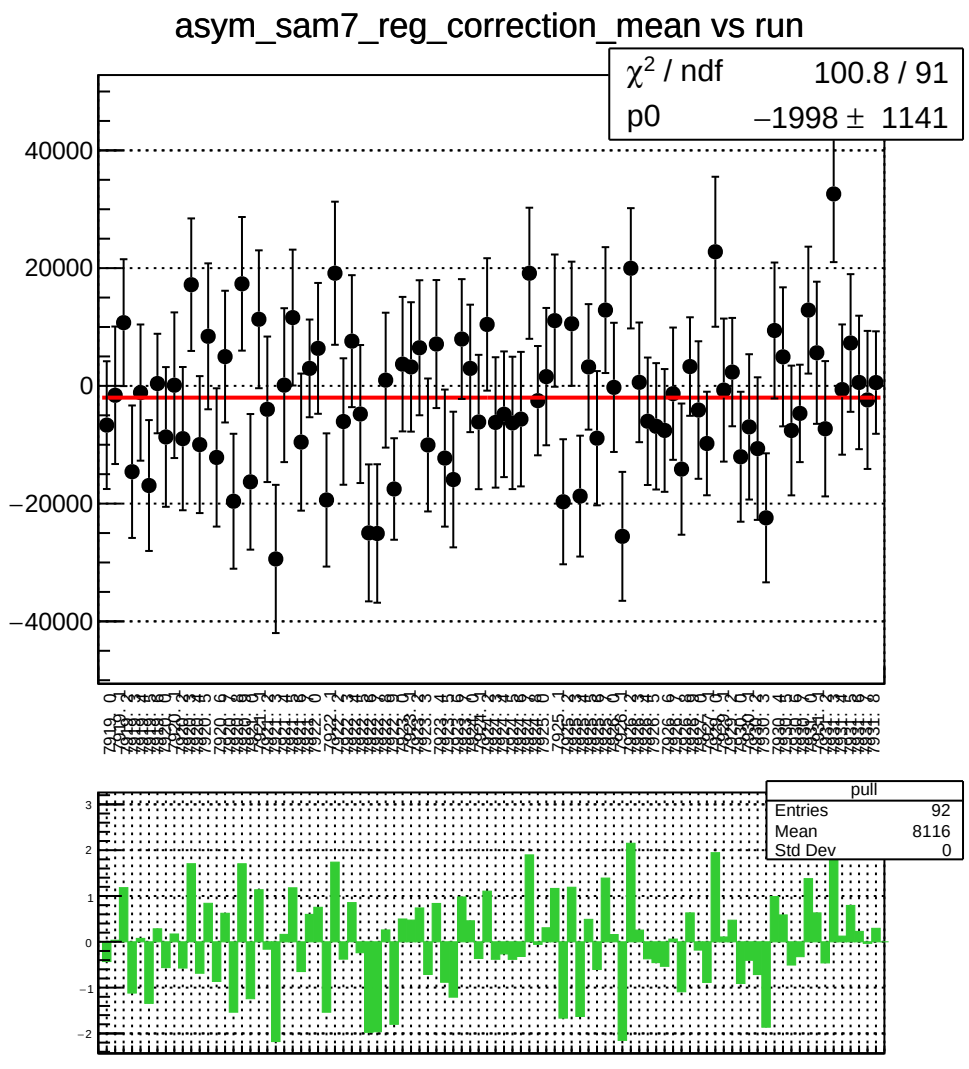

asym_sam6_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.85 / 91
p0 −1.18e−13 ± 2.458e−13
pull
Entries 92
Mean −58.25
Std Dev 0

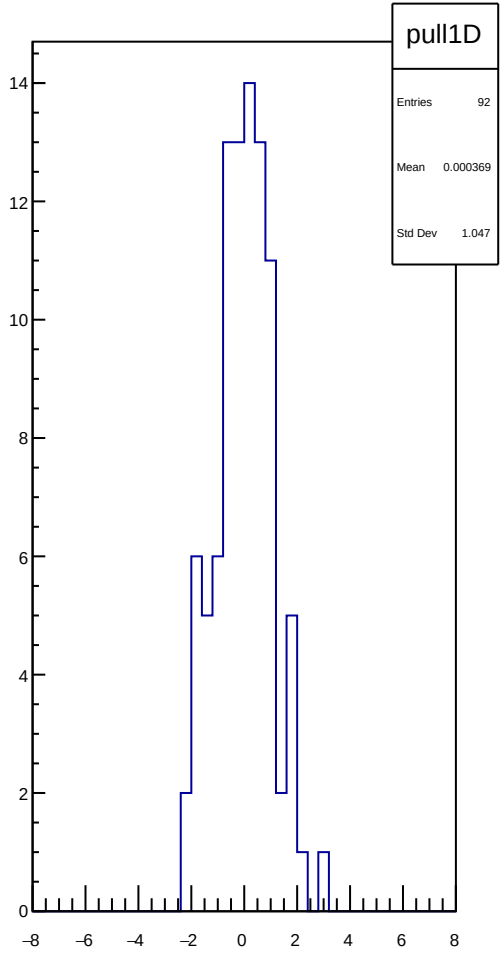

pull1D
Entries 92
Mean −0.05315
Std Dev 1.025

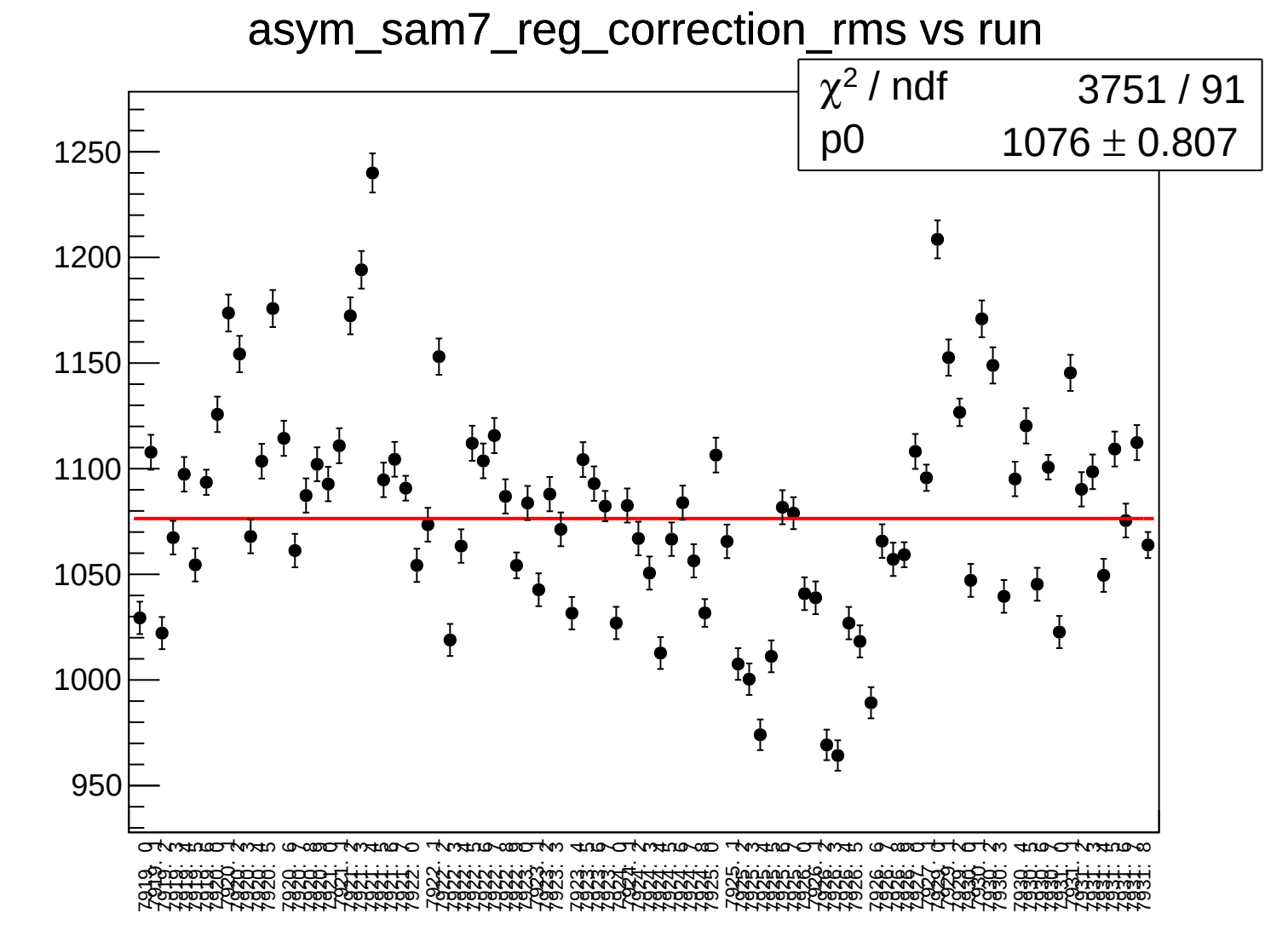

asym_sam6_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.598e+05 / 91
p0 1.842e−10 ± 1.738e−13
1
0.8
0.6
0.4
0.2

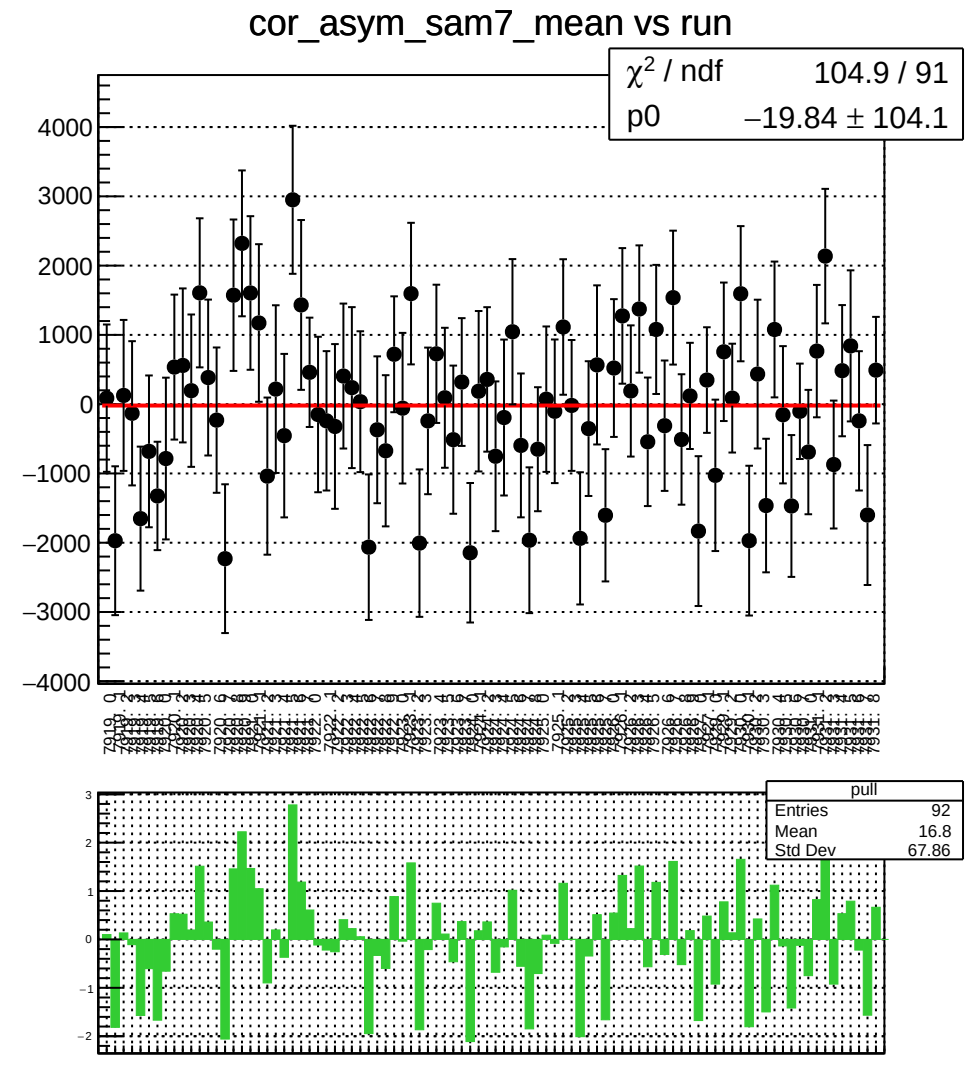

reg_asym_sam7_mean vs run
χ² / ndf 104.9 / 91
p0 −19.83 ± 104.1
pull
Entries 92
Mean 16.75
Std Dev 67.84
pull1D
Entries 92
Mean −0.003636
Std Dev 1.068

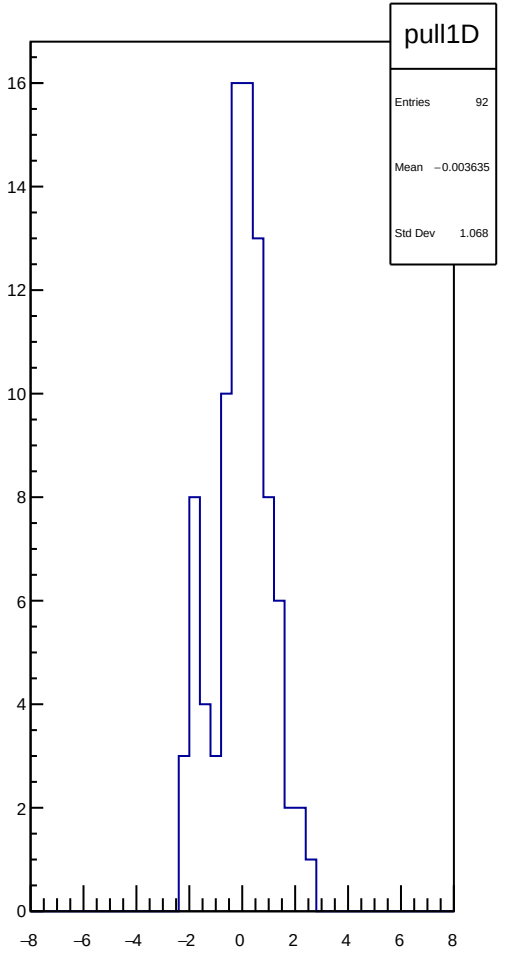

reg_asym_sam7_rms vs run
χ^2 / ndf 7507 / 91
p0 98.09 ± 0.07362
120
115
110
105
100
95
90
85

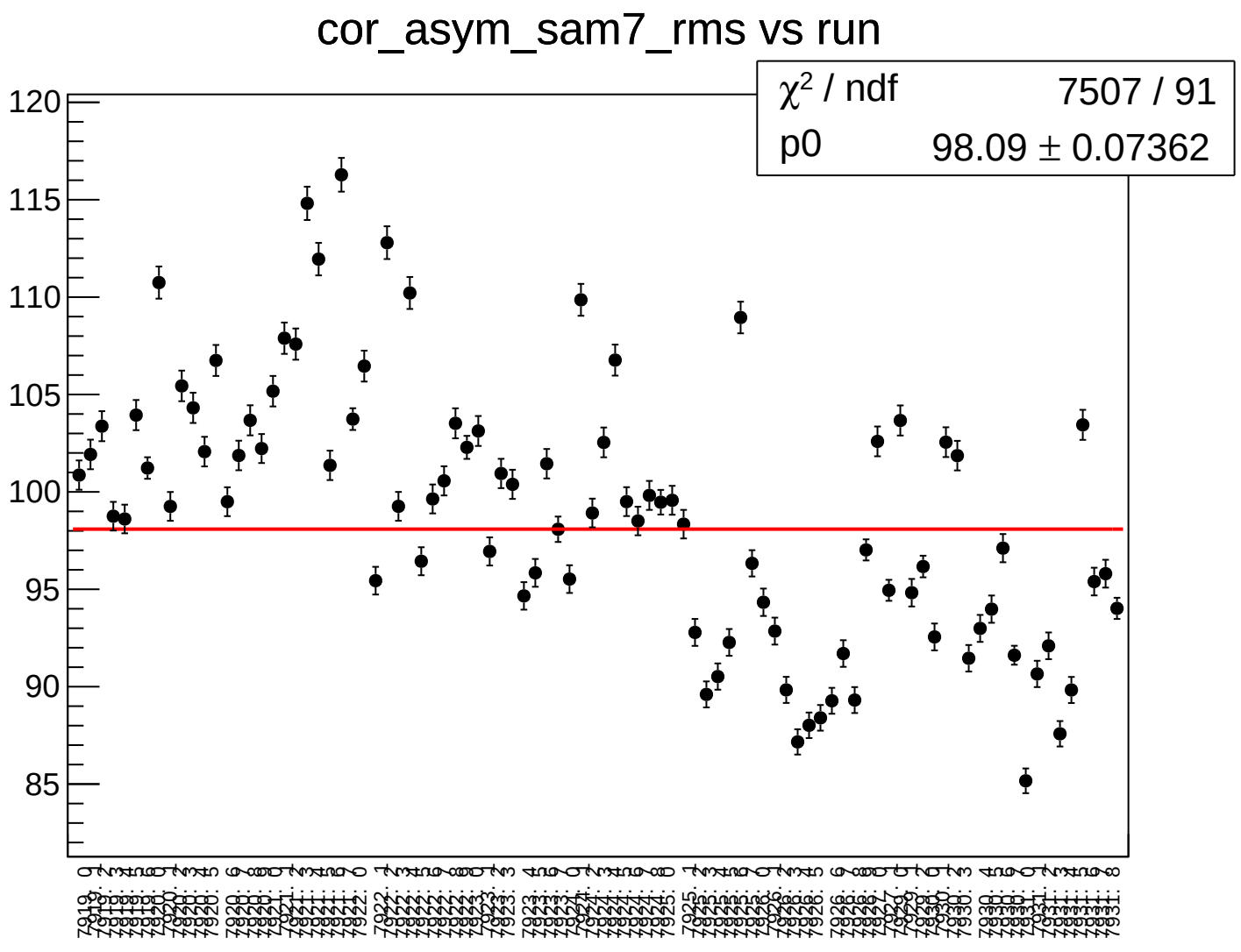

asym_sam7_reg_correction_mean vs run
χ² / ndf 100.8 / 91
p0 −1998 ± 1141
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 8116
Std Dev 0
3
2
1
0
−1
−2

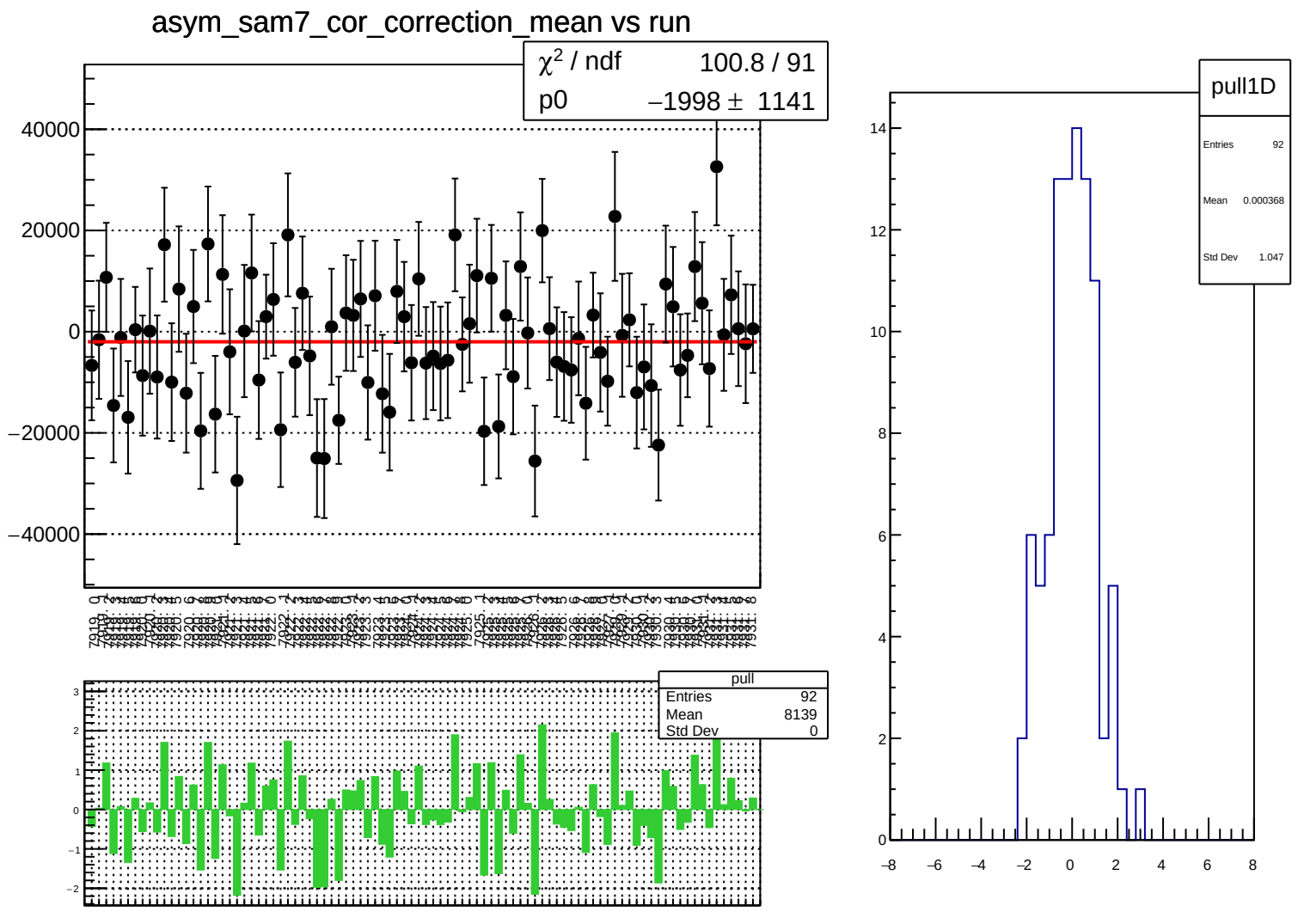

pull1D
Entries 92
Mean 0.000369
Std Dev 1.047
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

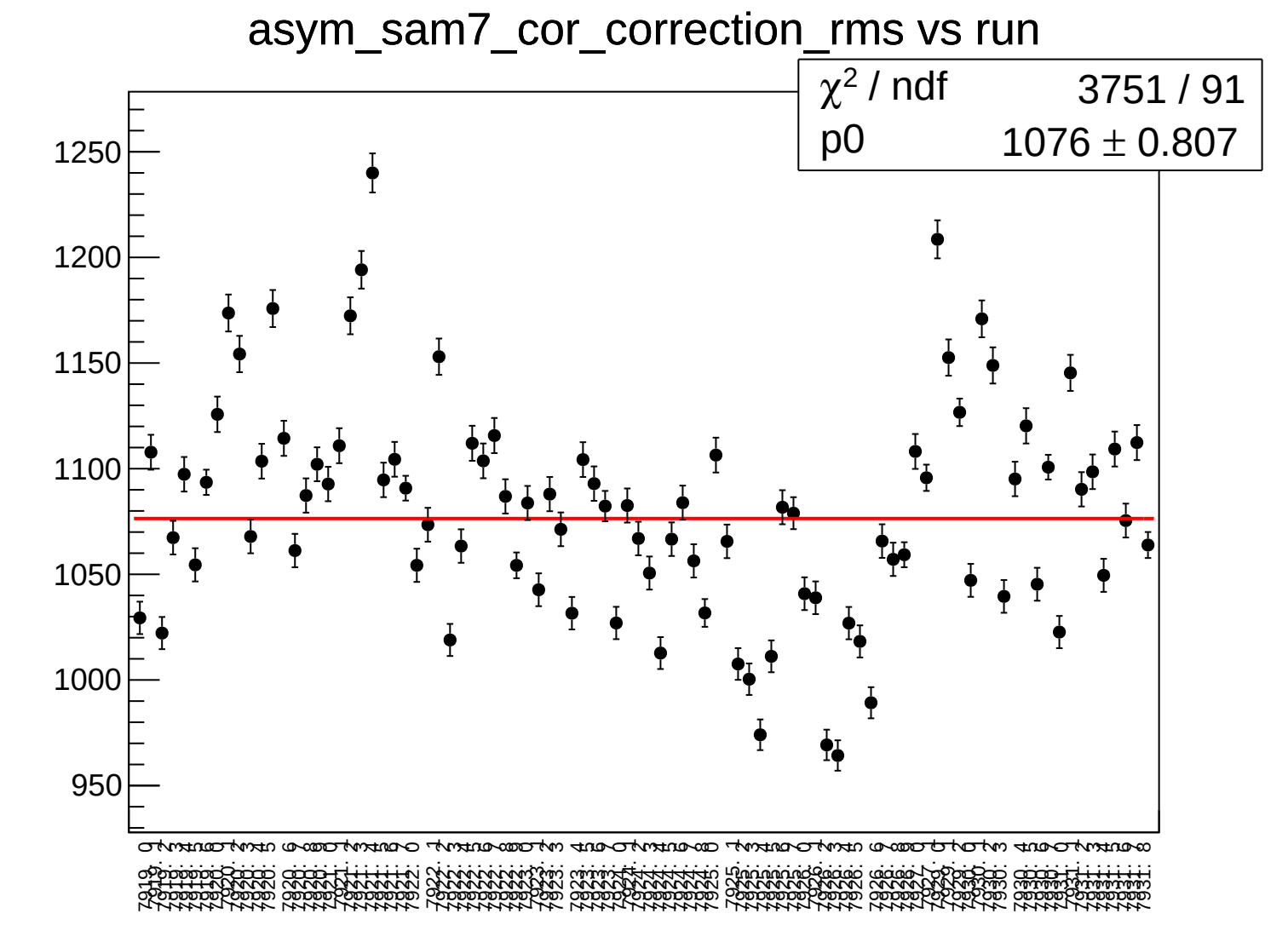

asym_sam7_reg_correction_rms vs run
χ² / ndf 3751 / 91
p0 1076 ± 0.807
1250
1200
1150
1100
1050
1000
950

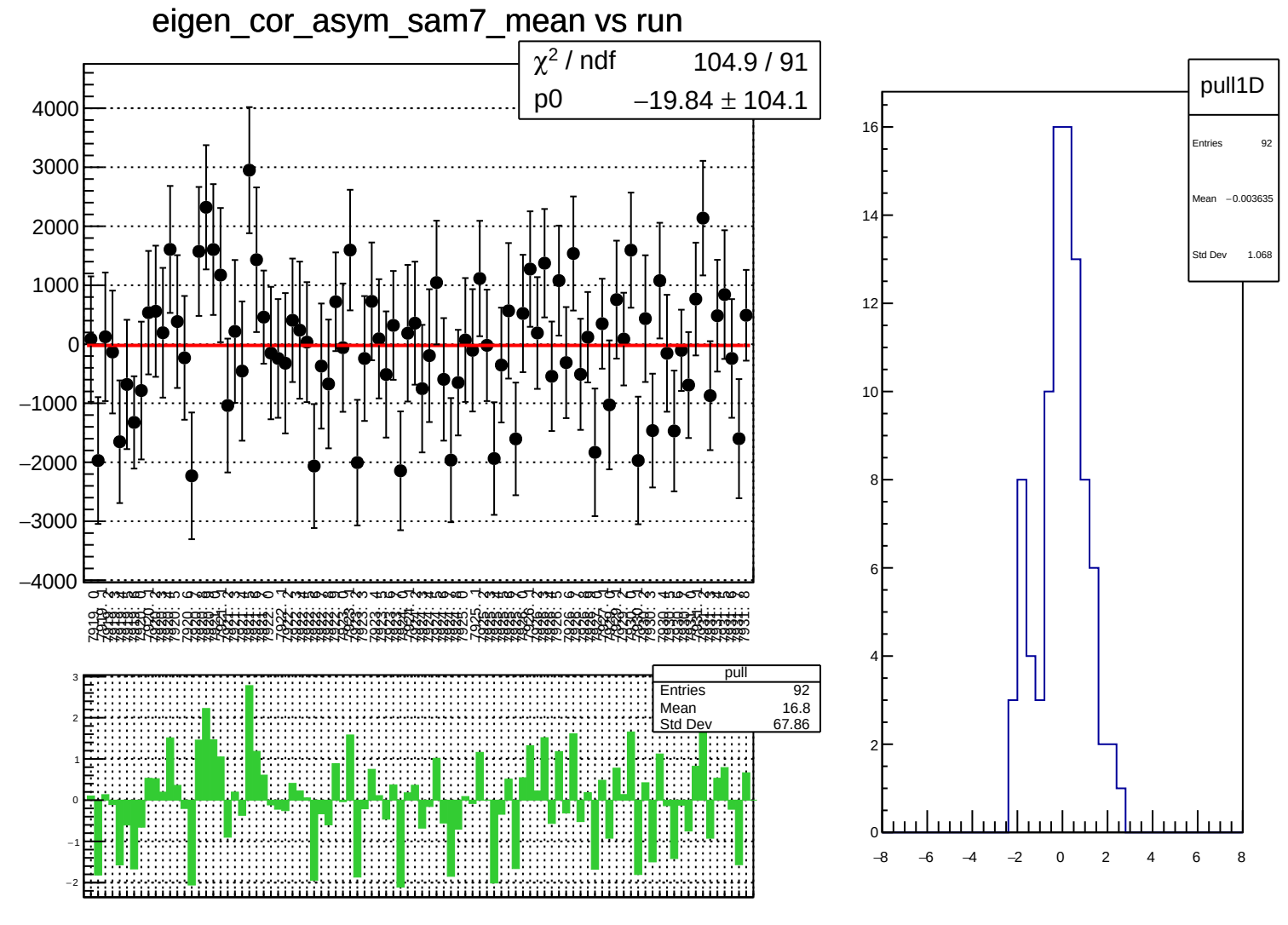

cor_asym_sam7_mean vs run
χ² / ndf 104.9 / 91
p0 −19.84 ± 104.1
pull
Entries 92
Mean 16.8
Std Dev 67.86

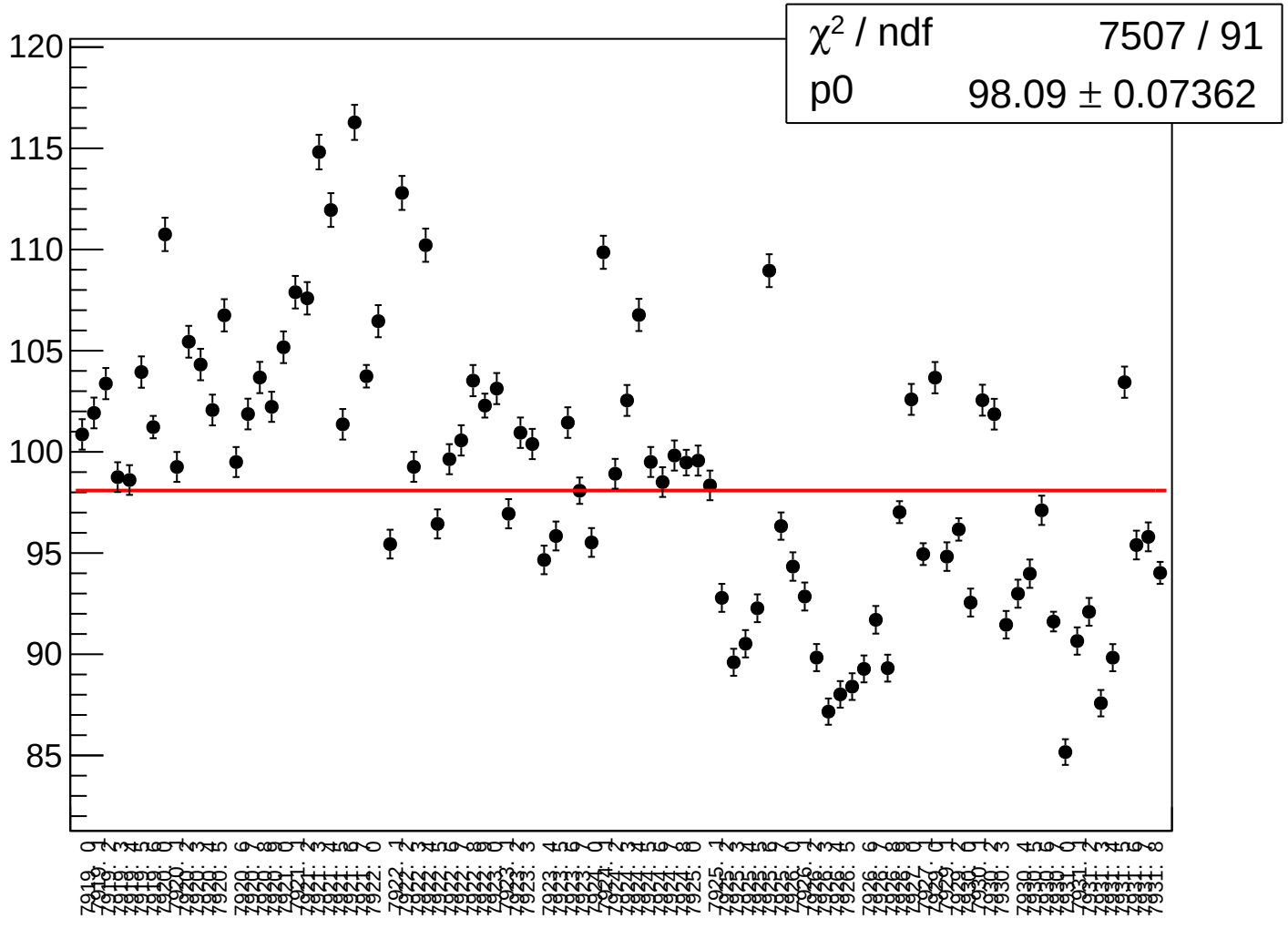

pull1D
Entries 92
Mean −0.003635
Std Dev 1.068

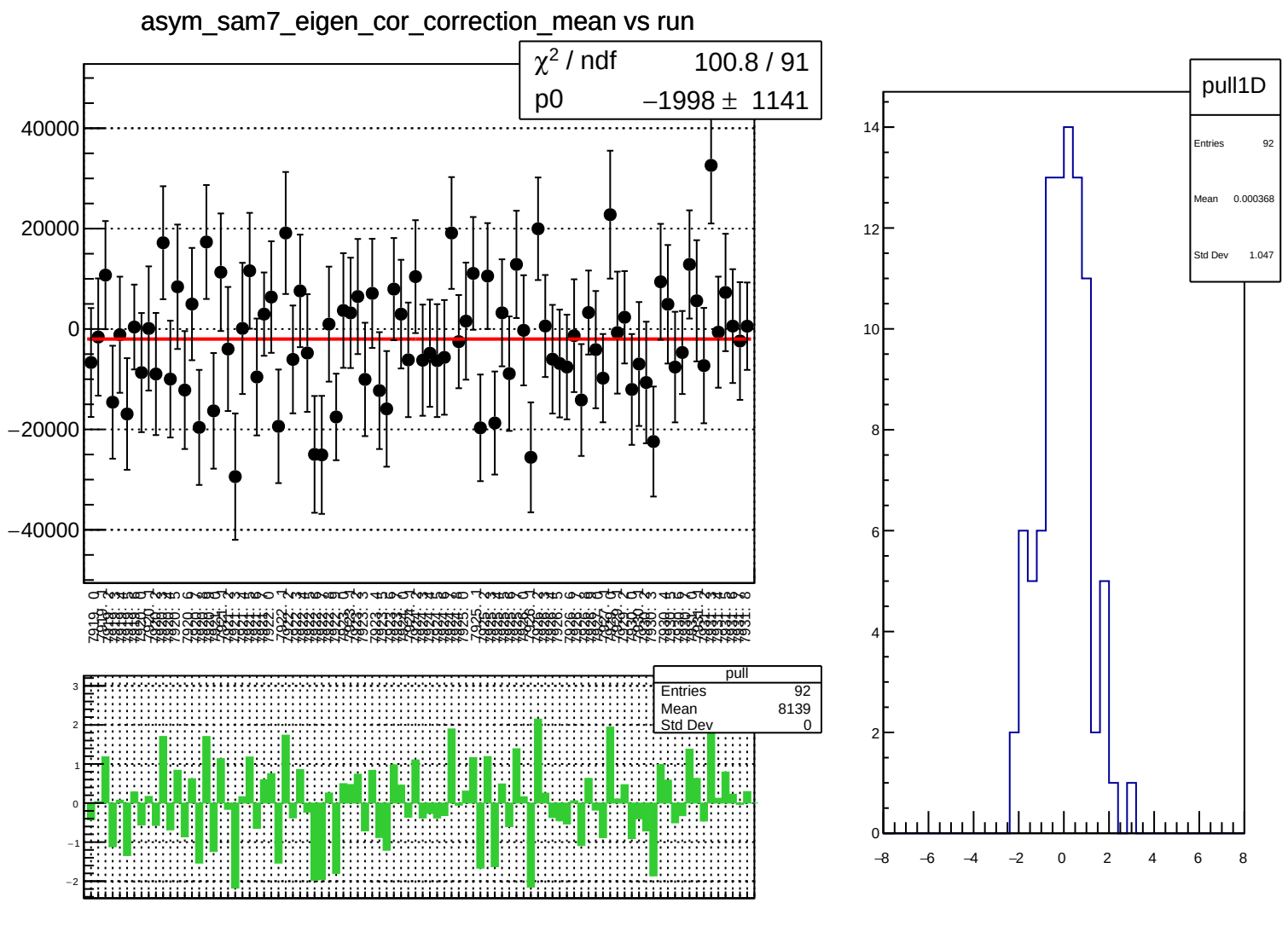

cor_asym_sam7_rms vs run
χ² / ndf 7507 / 91
p0 98.09 ± 0.07362
120
115
110
105
100
95
90
85

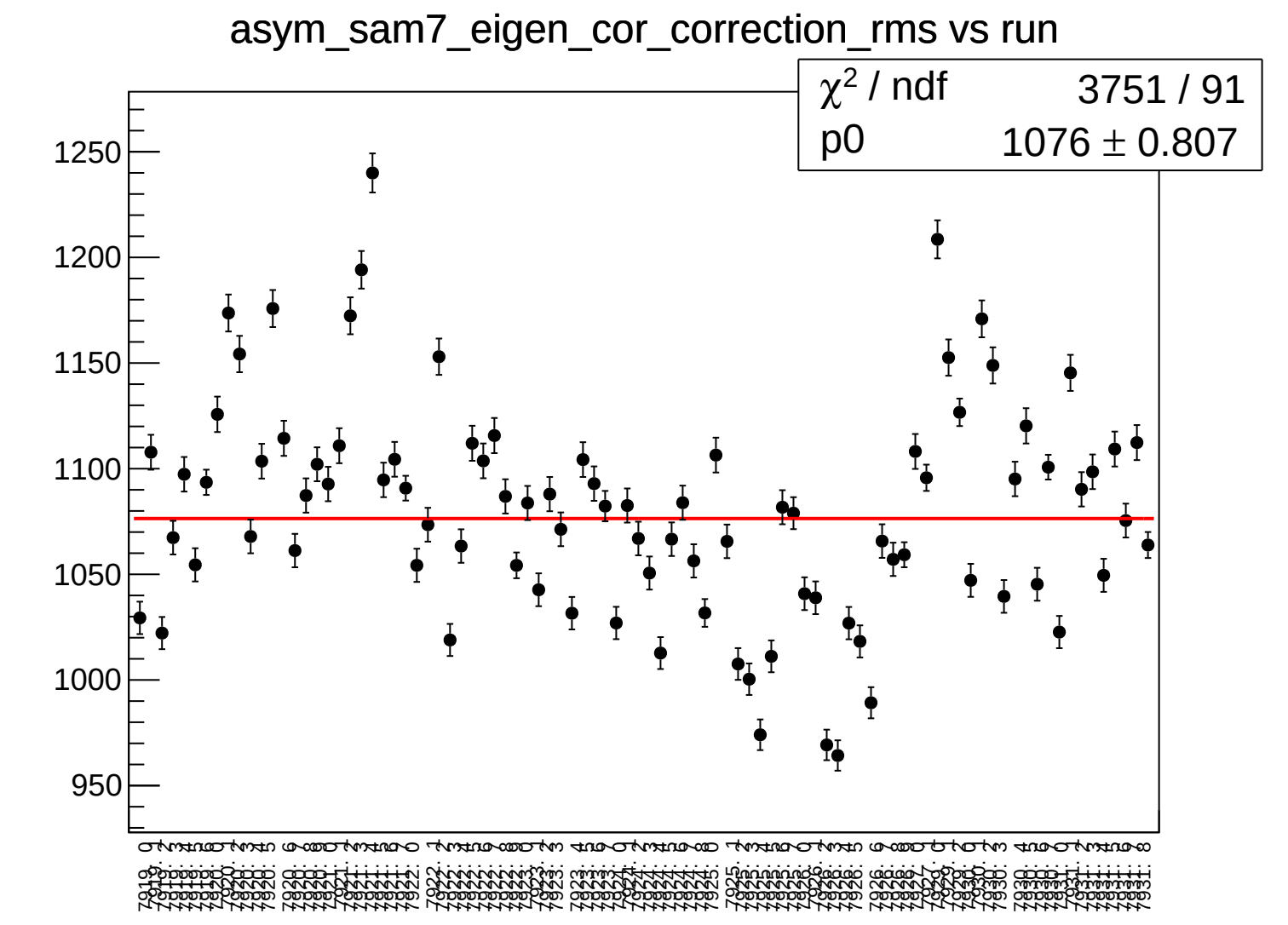

asym_sam7_cor_correction_mean vs run
χ² / ndf 100.8 / 91
p0 −1998 ± 1141
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 8139
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.000368
Std Dev 1.047
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

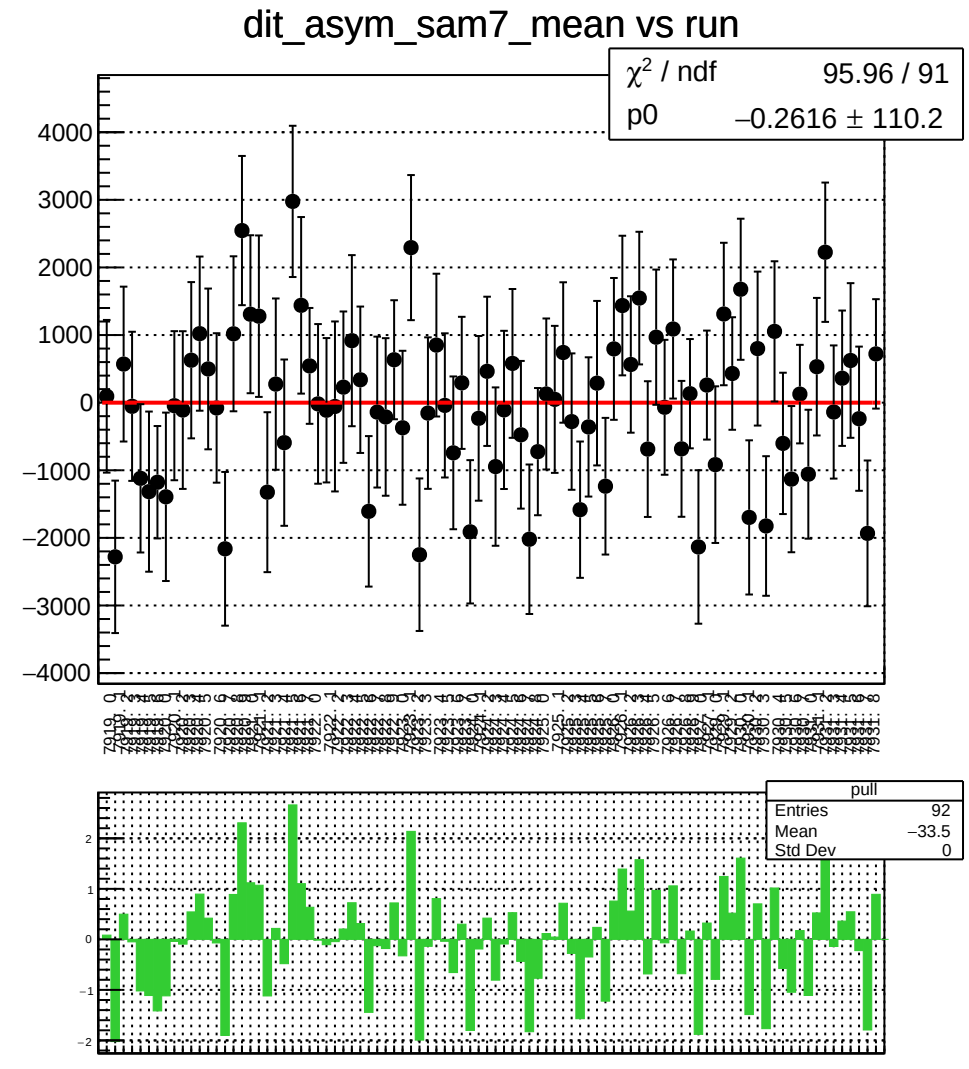

asym_sam7_cor_correction_rms vs run
χ² / ndf 3751 / 91
p0 1076 ± 0.807
1250
1200
1150
1100
1050
1000
950

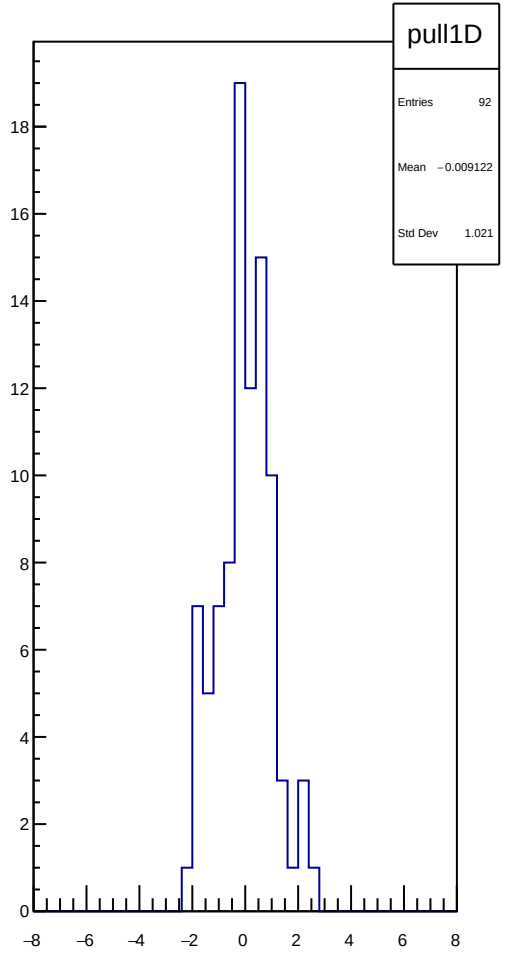

eigen_cor_asym_sam7_mean vs run
χ² / ndf 104.9 / 91
p0 −19.84 ± 104.1
pull
Entries 92
Mean 16.8
Std Dev 67.86
pull1D
Entries 92
Mean −0.003635
Std Dev 1.068

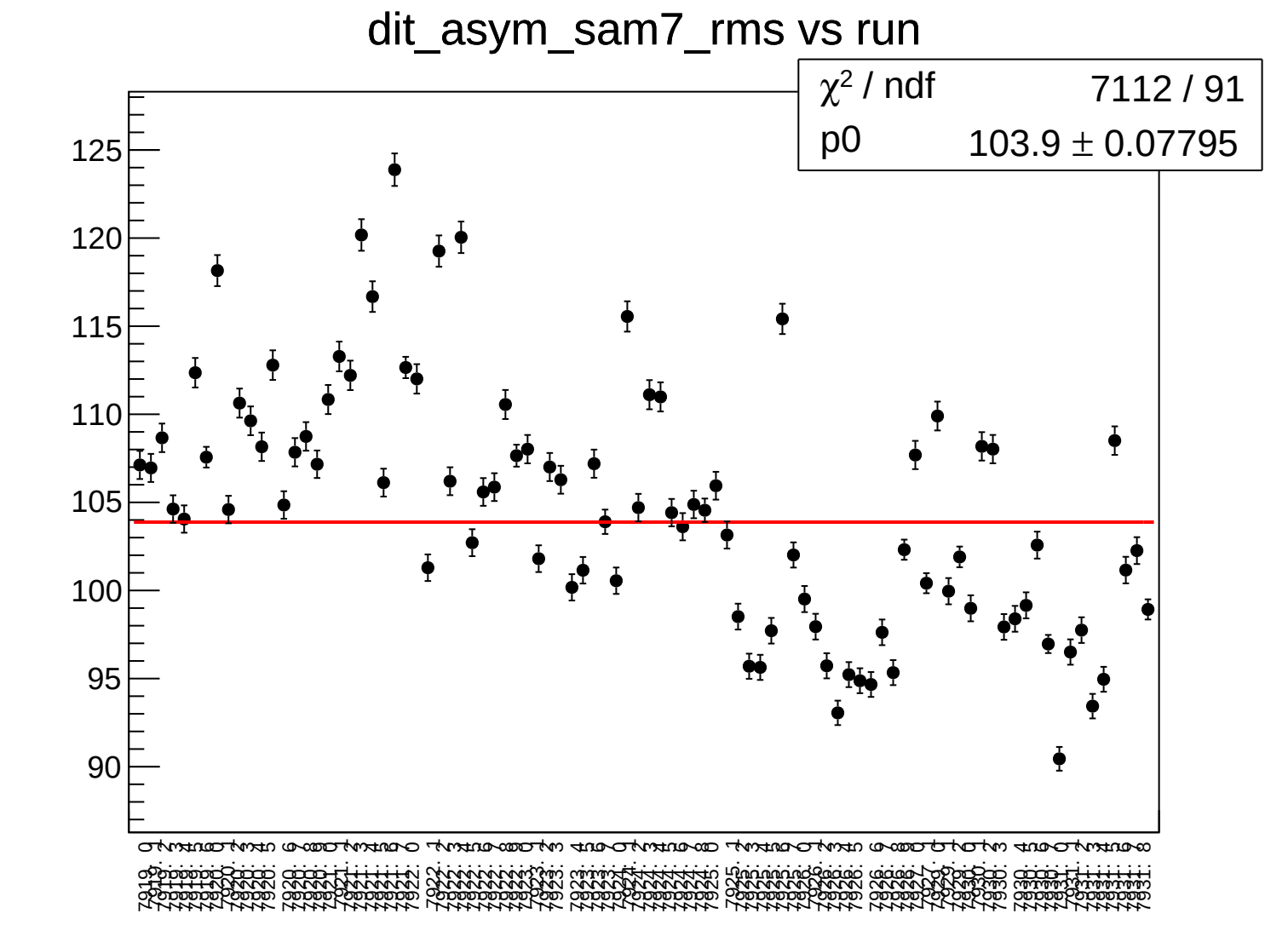

eigen_cor_asym_sam7_rms vs run
χ^2 / ndf 7507 / 91
p0 98.09 ± 0.07362
120
115
110
105
100
95
90
85

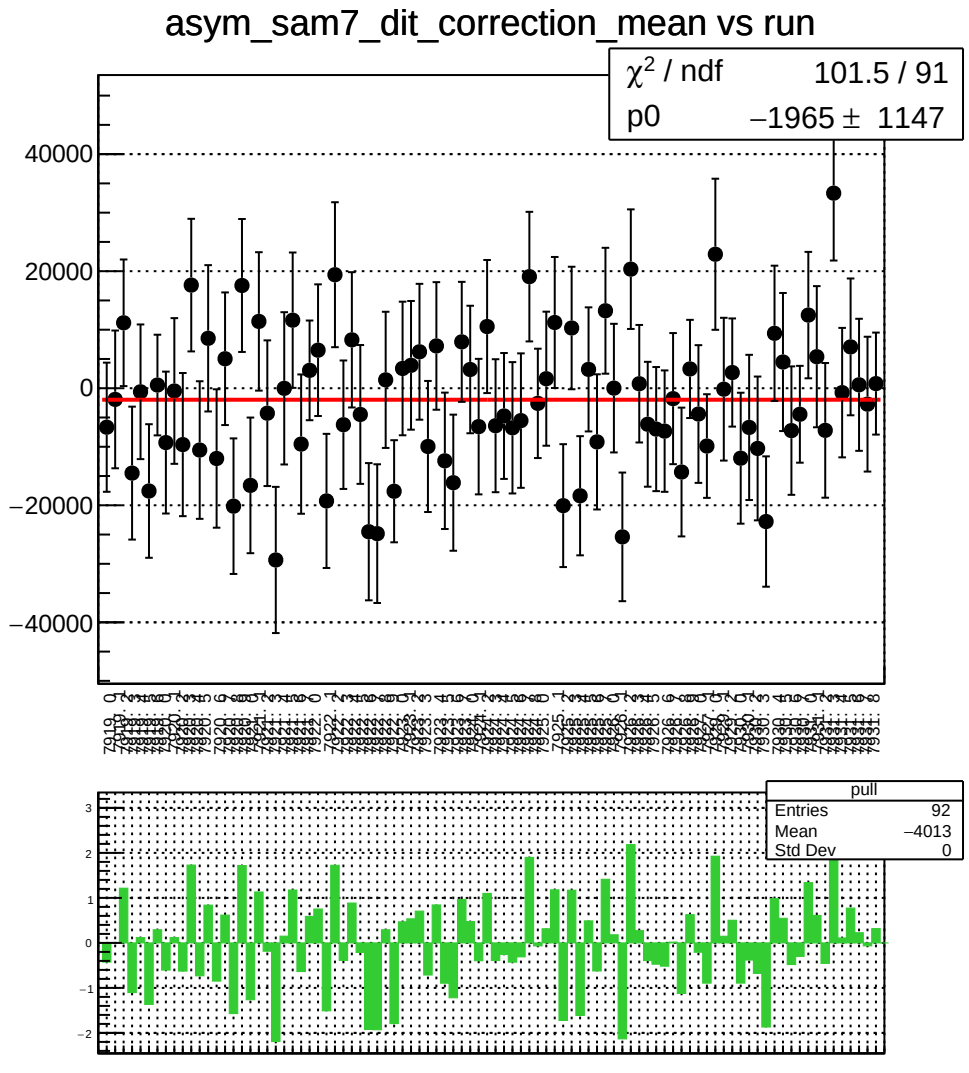

asym_sam7_eigen_cor_correction_mean vs run
χ² / ndf 100.8 / 91
p0 −1998 ± 1141
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 8139
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.000368
Std Dev 1.047
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

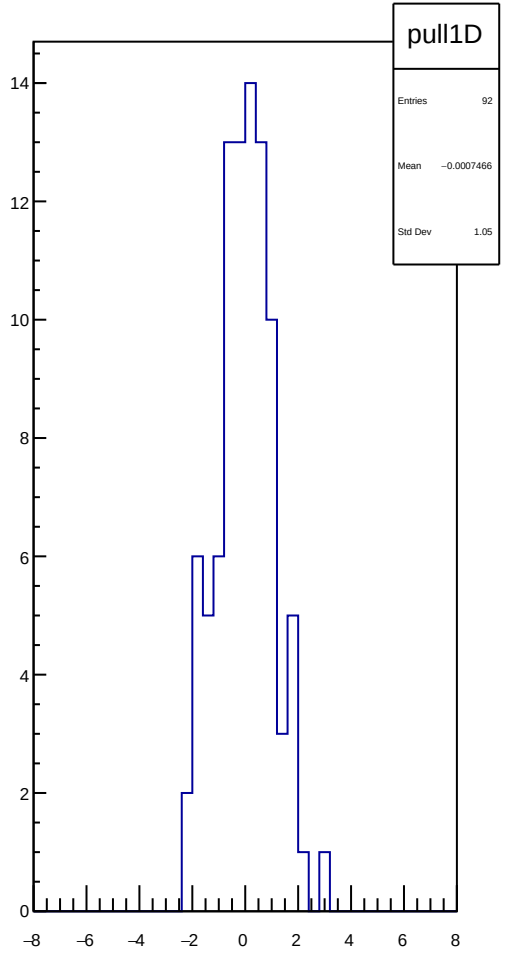

asym_sam7_eigen_cor_correction_rms vs run
χ^2 / ndf 3751 / 91
p0 1076 ± 0.807
1250
1200
1150
1100
1050
1000
950

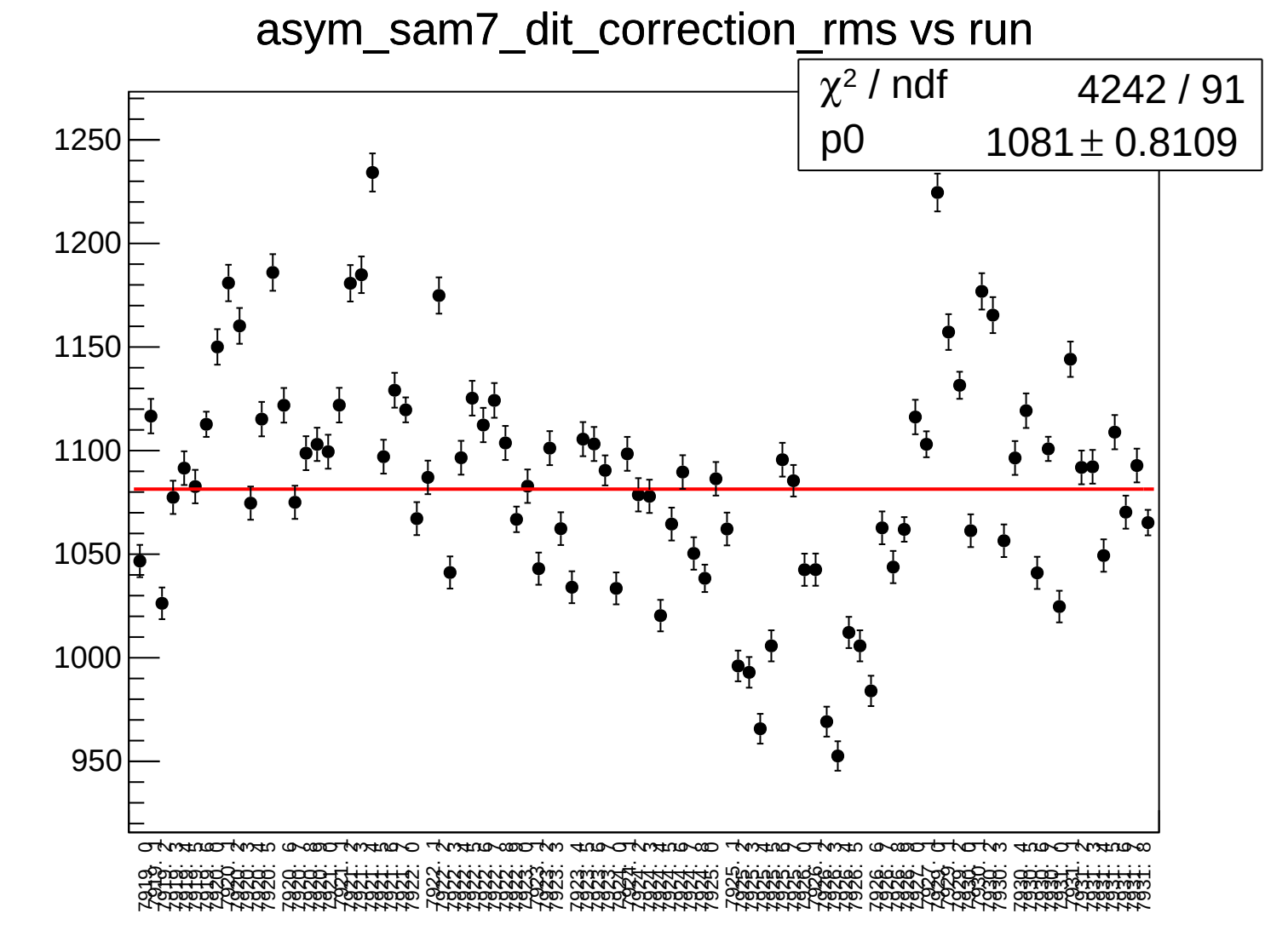

dit_asym_sam7_mean vs run
χ² / ndf 95.96 / 91
p0 −0.2616 ± 110.2
pull
Entries 92
Mean −33.5
Std Dev 0

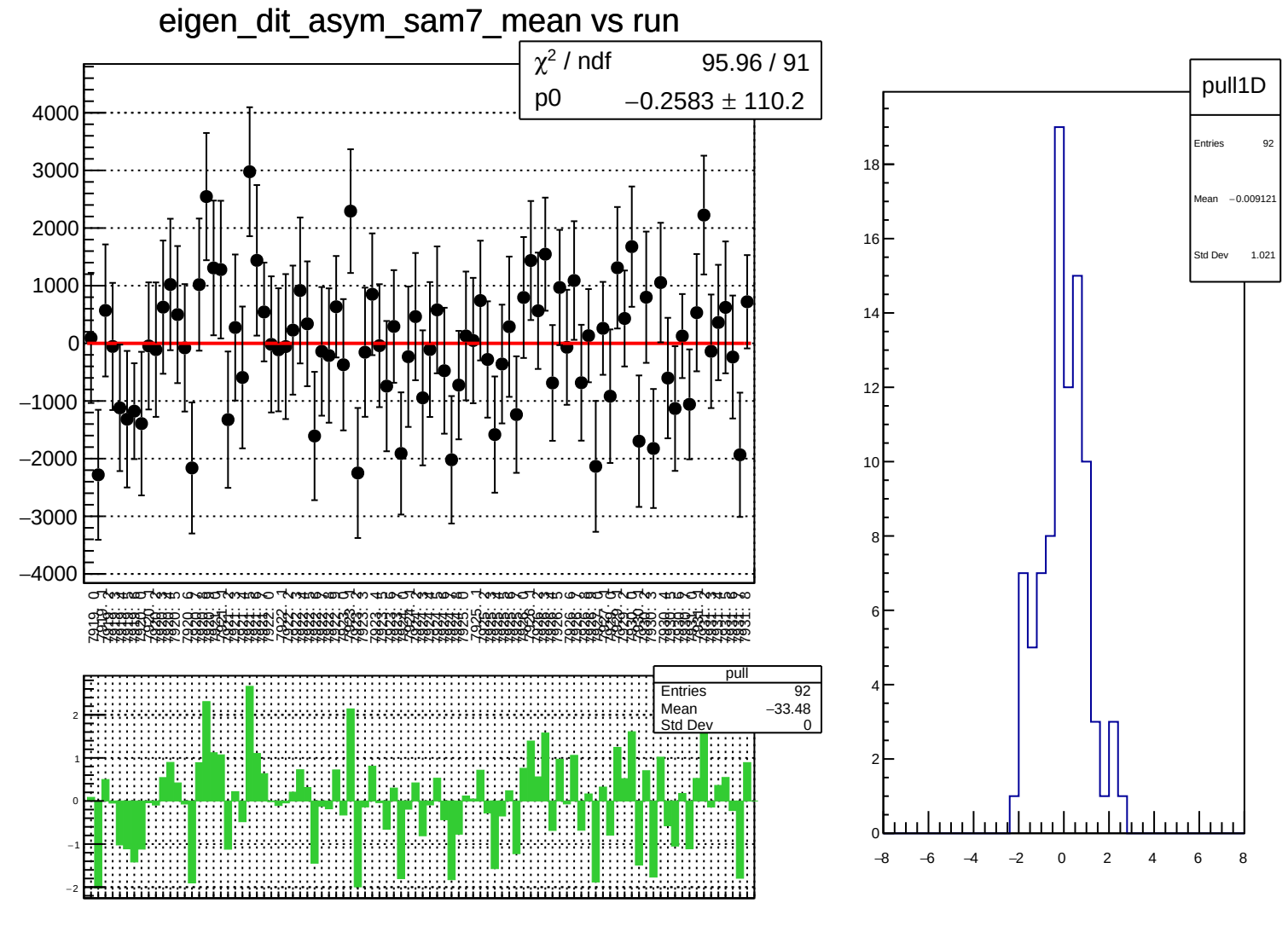

pull1D
Entries 92
Mean −0.009122
Std Dev 1.021

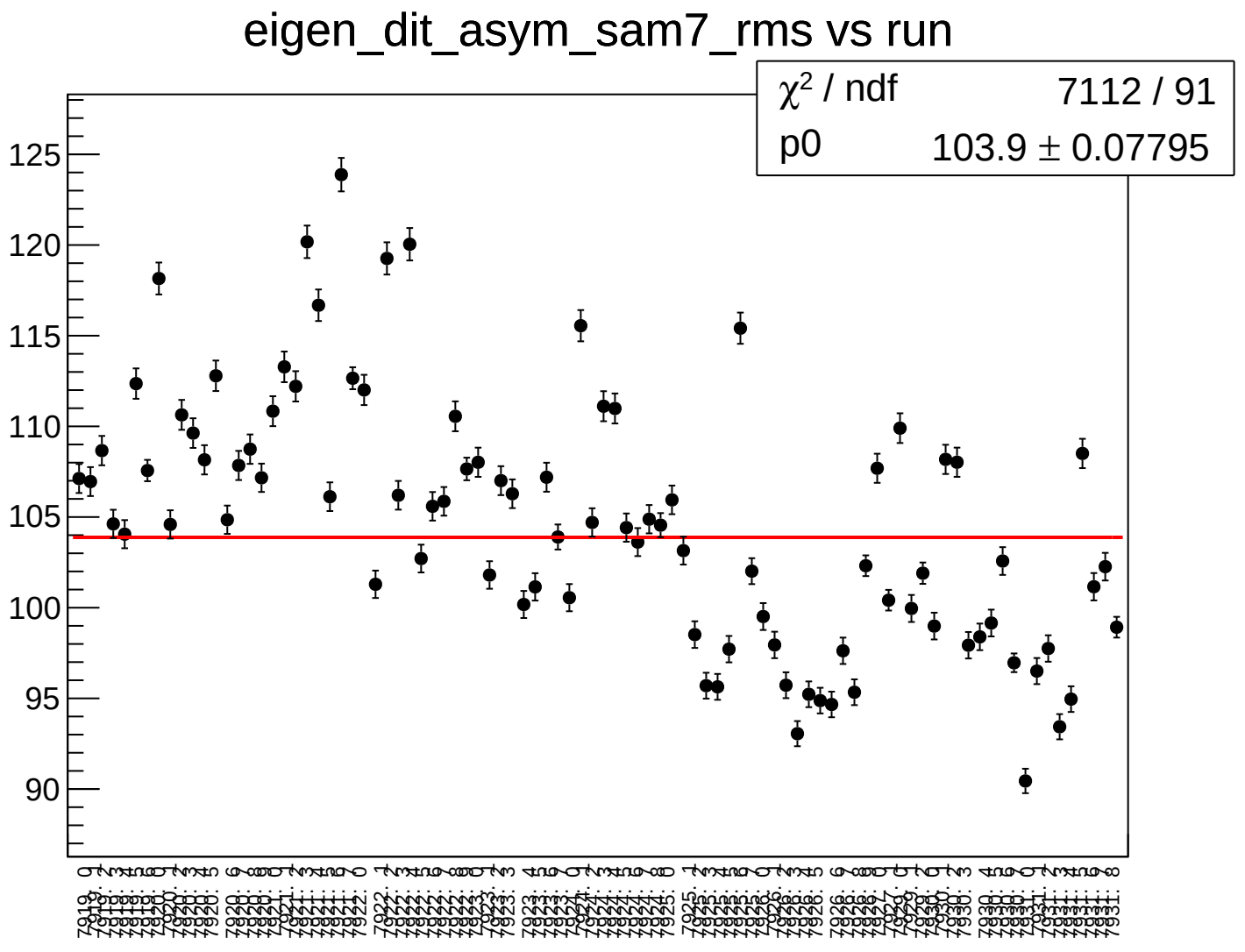

dit_asym_sam7_rms vs run
χ^2 / ndf 7112 / 91
p0 103.9 ± 0.07795
125
120
115
110
105
100
95
90

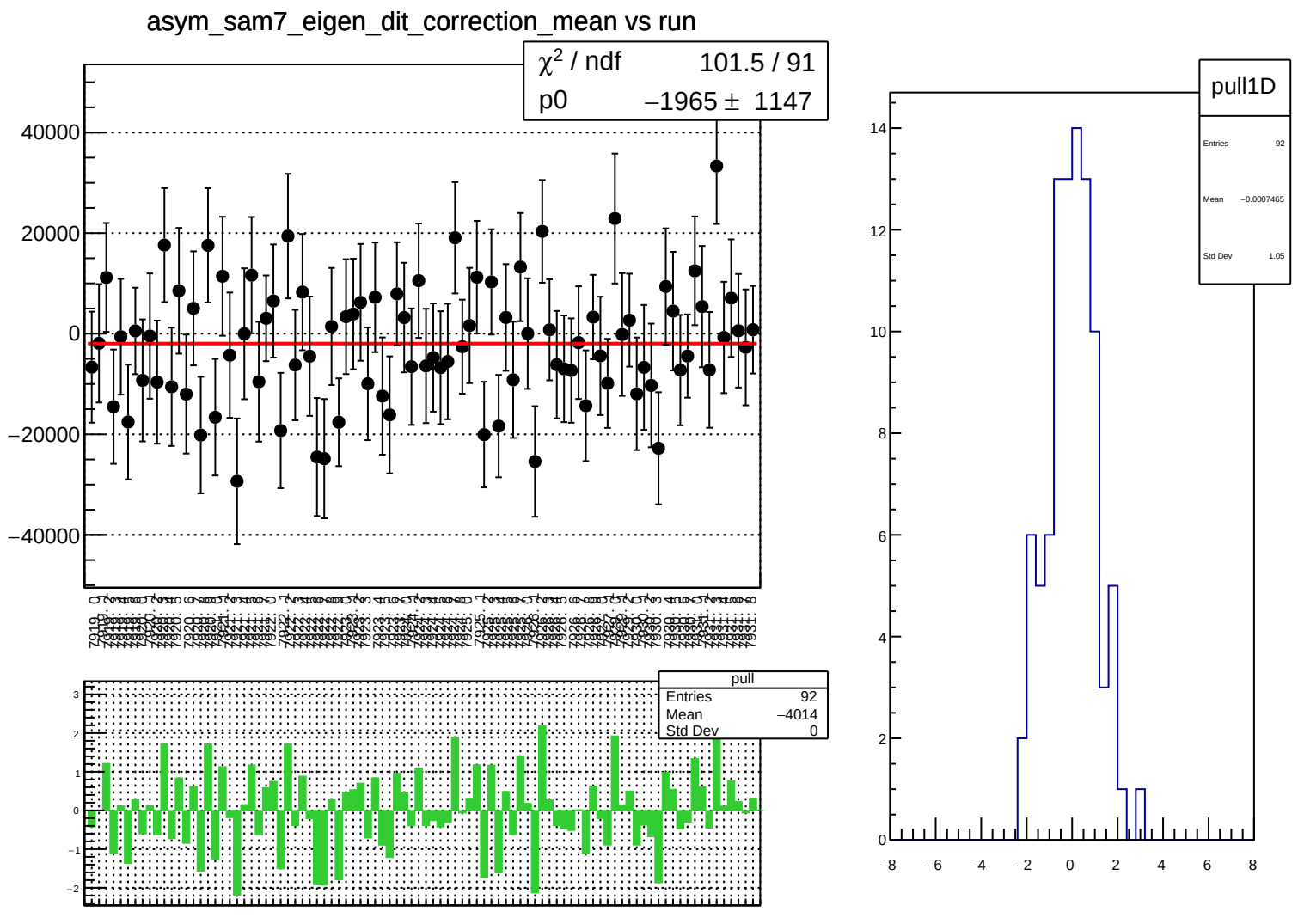

asym_sam7_dit_correction_mean vs run
χ² / ndf 101.5 / 91
p0 −1965 ± 1147
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −4013
Std Dev 0
3
2
1
0
−1
−2

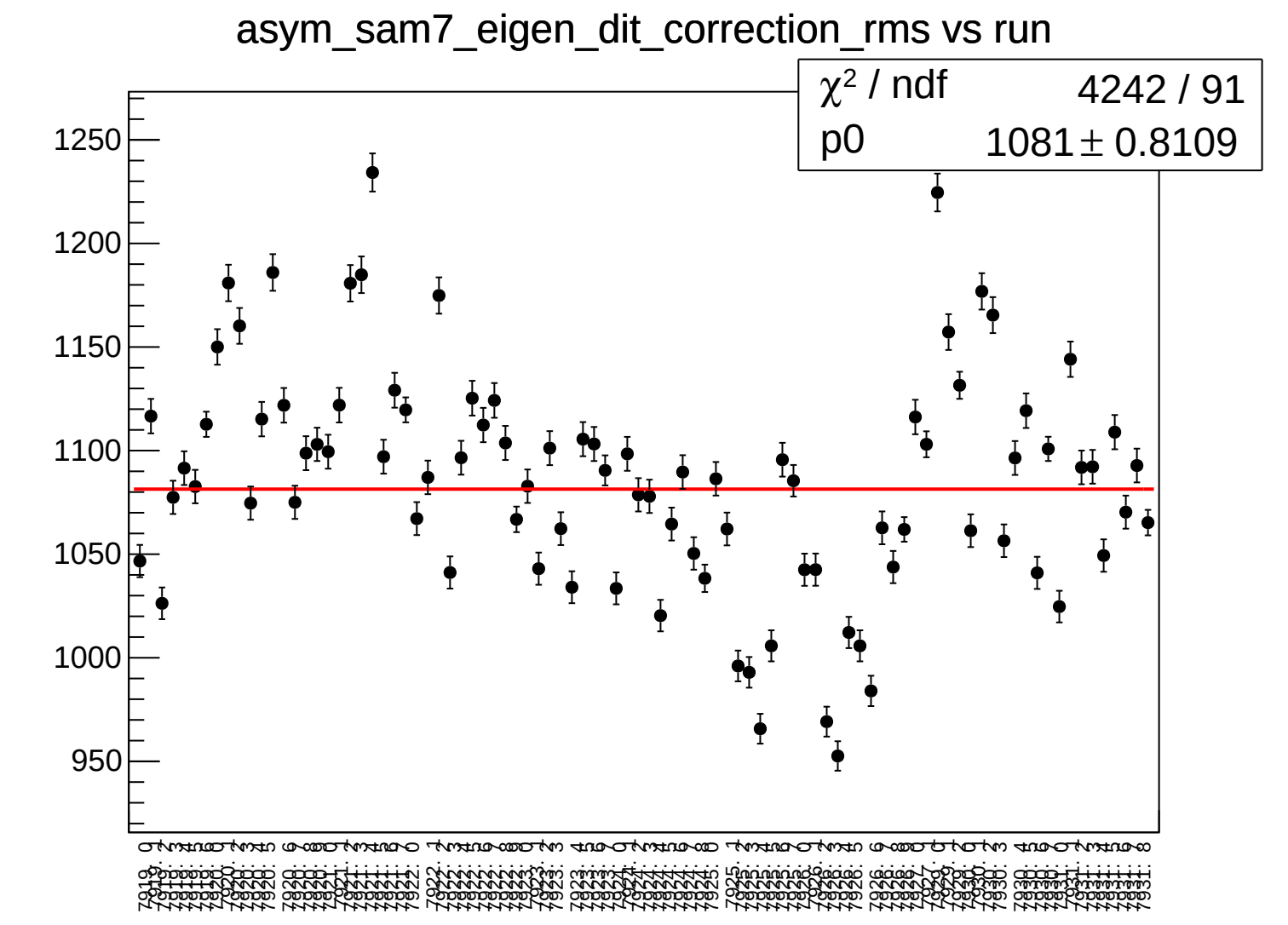

pull1D
Entries 92
Mean −0.0007466
Std Dev 1.05
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

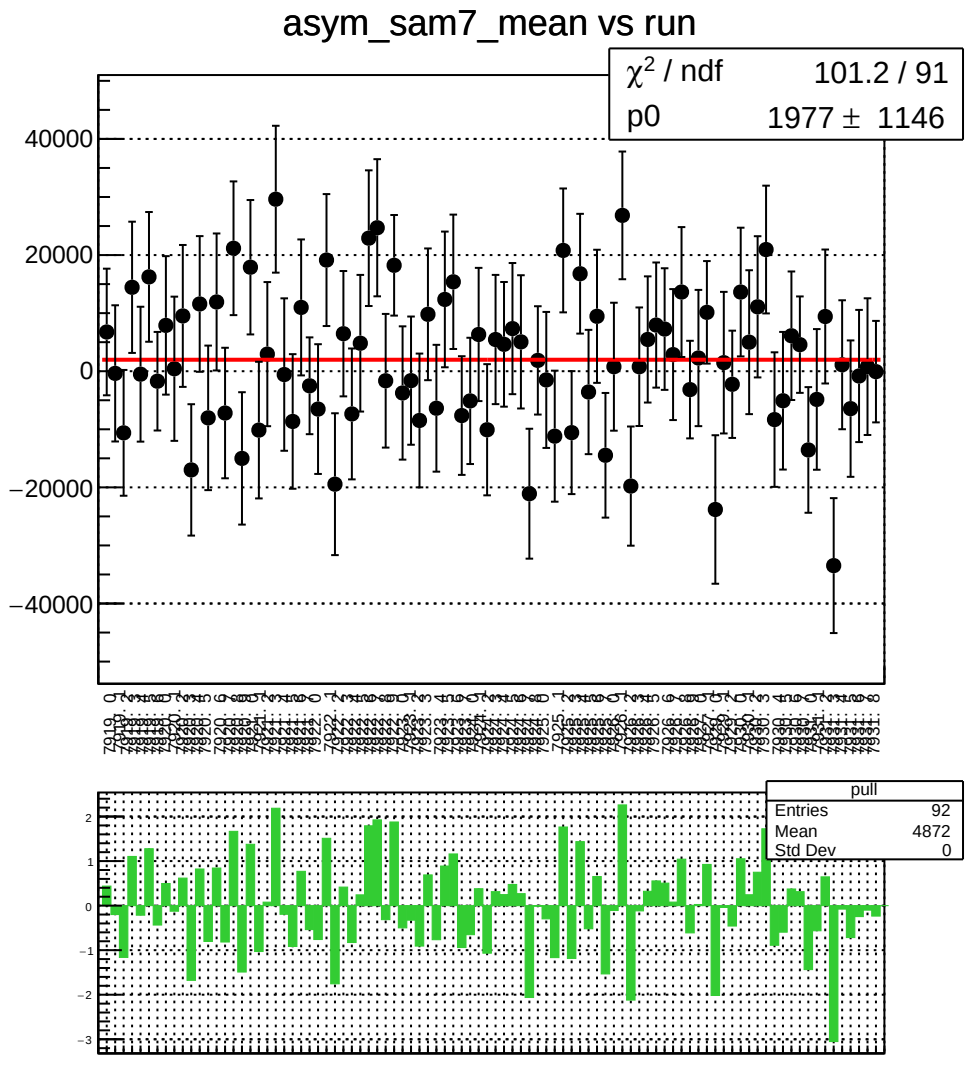

asym_sam7_dit_correction_rms vs run
χ² / ndf 4242 / 91
p0 1081 ± 0.8109
1250
1200
1150
1100
1050
1000
950

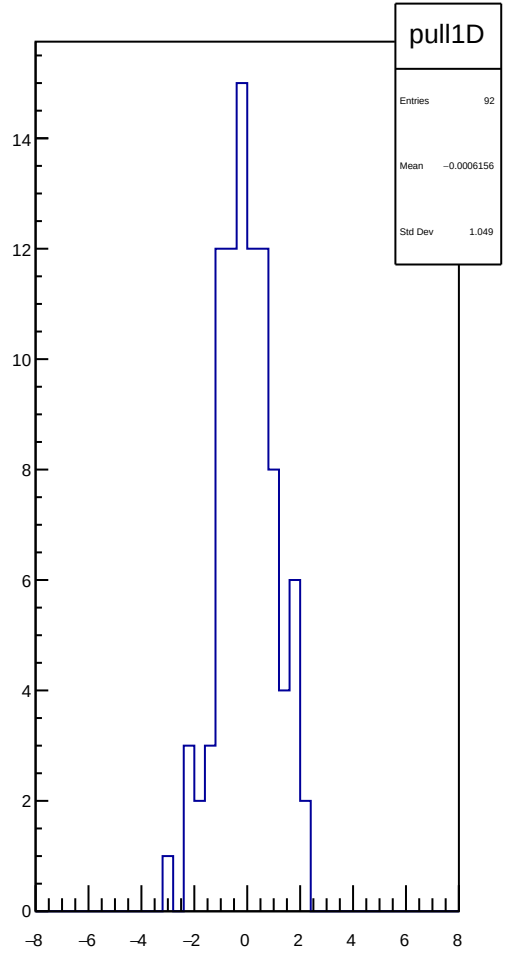

eigen_dit_asym_sam7_mean vs run
χ² / ndf 95.96 / 91
p0 −0.2583 ± 110.2
pull
Entries 92
Mean −33.48
Std Dev 0
pull1D
Entries 92
Mean −0.009121
Std Dev 1.021

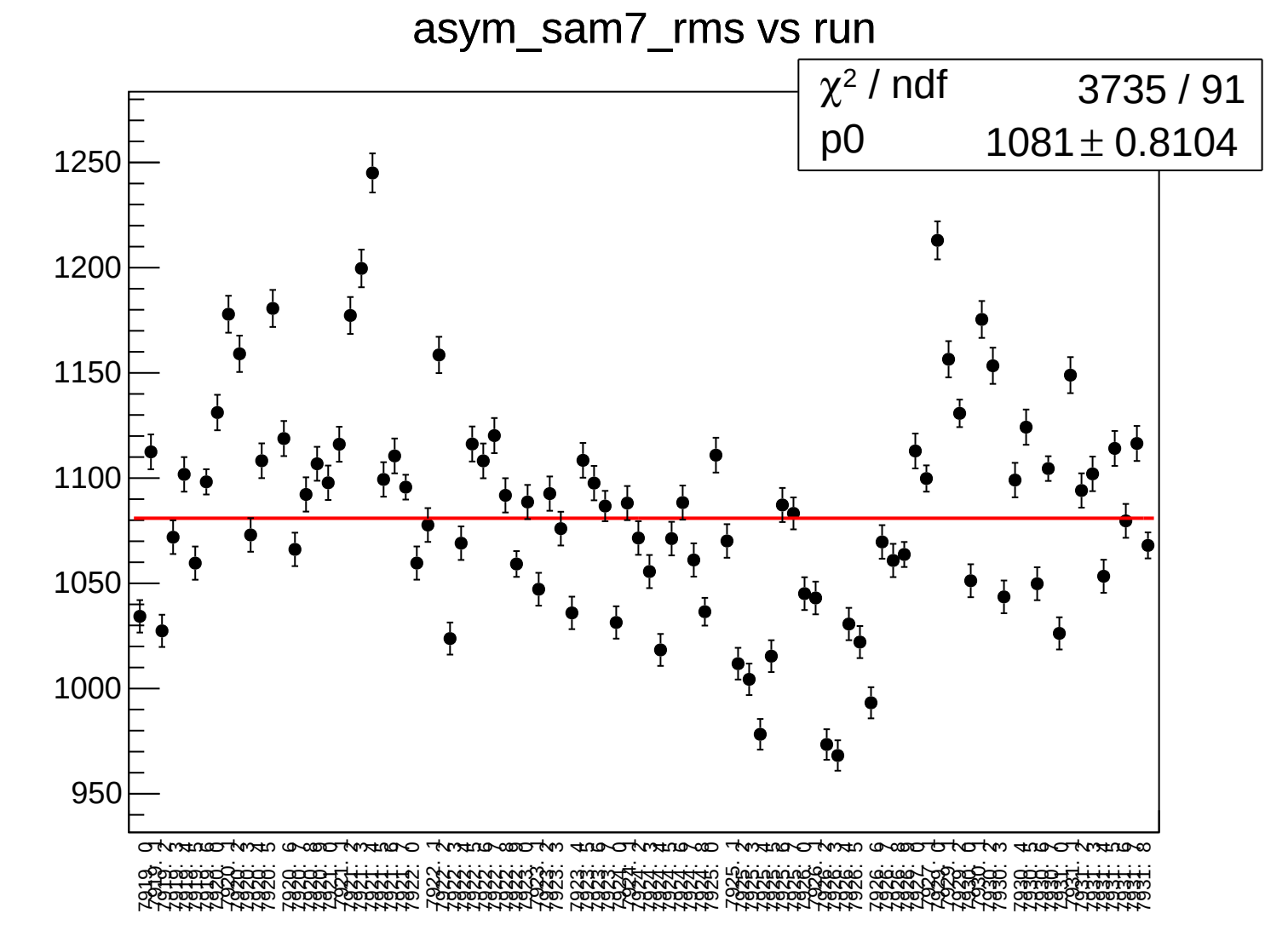

eigen_dit_asym_sam7_rms vs run
χ² / ndf 7112 / 91
p0 103.9 ± 0.07795
125
120
115
110
105
100
95
90

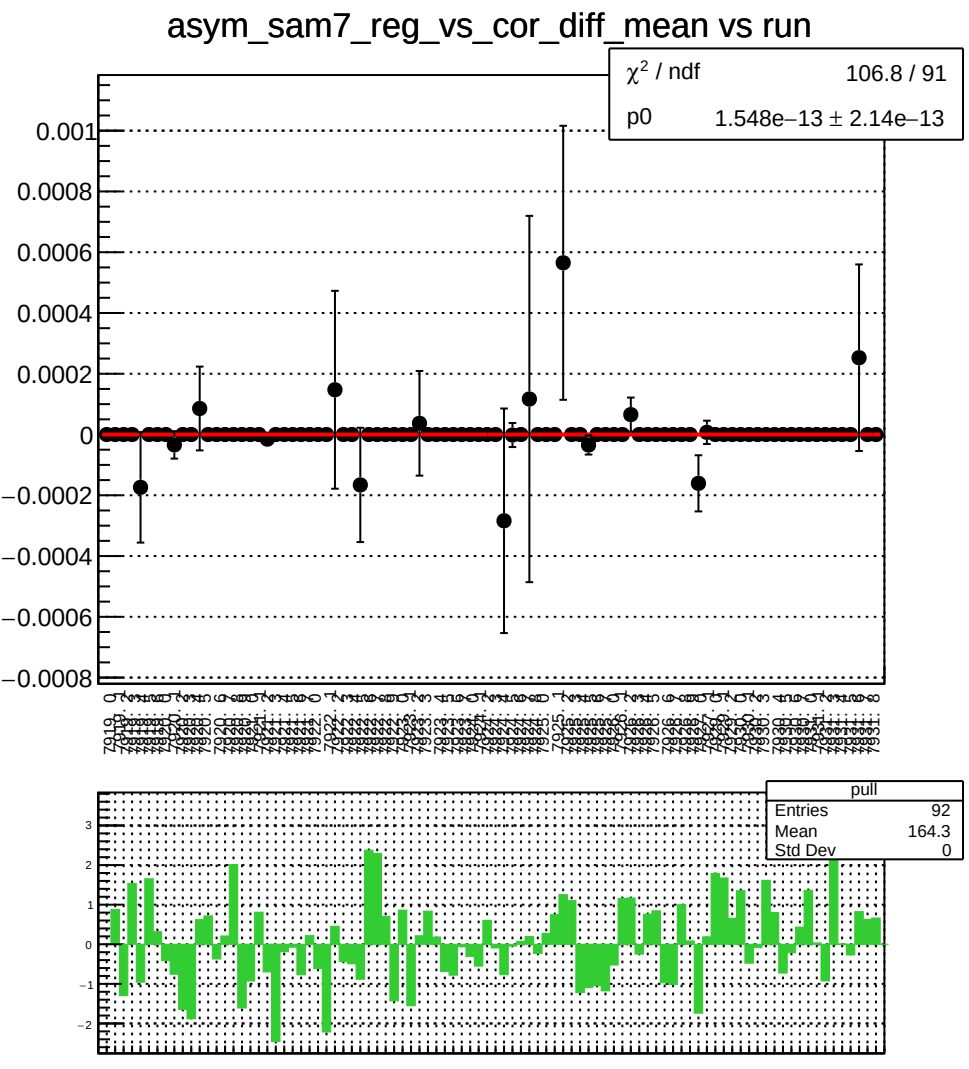

asym_sam7_eigen_dit_correction_mean vs run
χ² / ndf 101.5 / 91
p0 −1965 ± 1147
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −4014
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.0007465
Std Dev 1.05
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

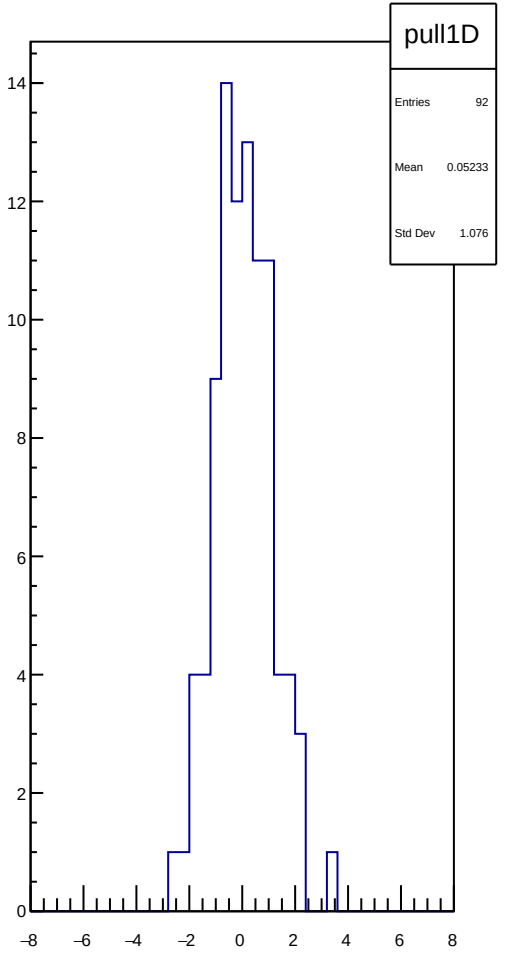

asym_sam7_eigen_dit_correction_rms vs run
χ² / ndf 4242 / 91
p0 1081 ± 0.8109
1250
1200
1150
1100
1050
1000
950

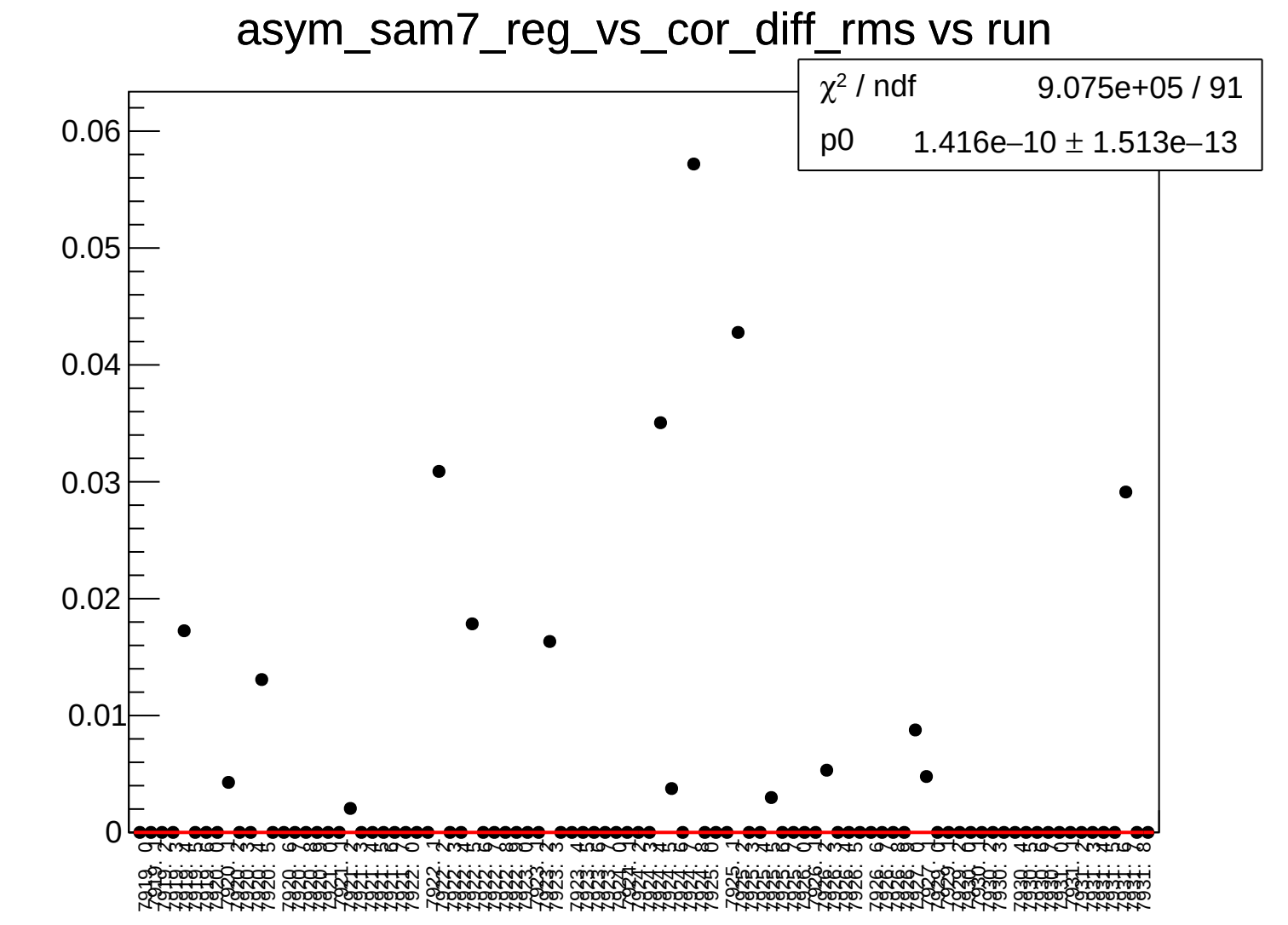

asym_sam7_mean vs run
χ² / ndf 101.2 / 91
p0 1977 ± 1146
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 4872
Std Dev 0
2
1
0
−1
−2
−3

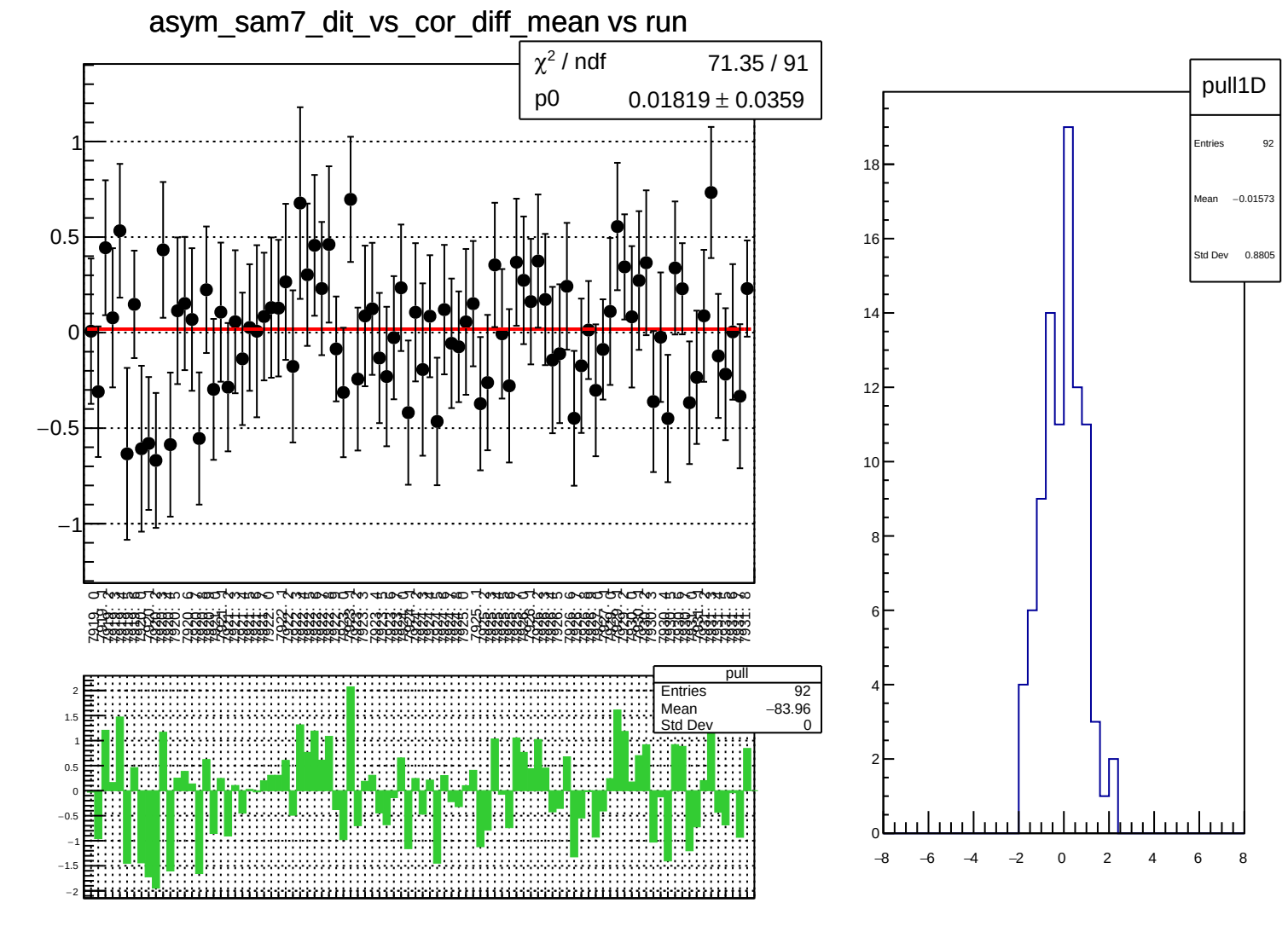

pull1D
Entries 92
Mean −0.0006156
Std Dev 1.049
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

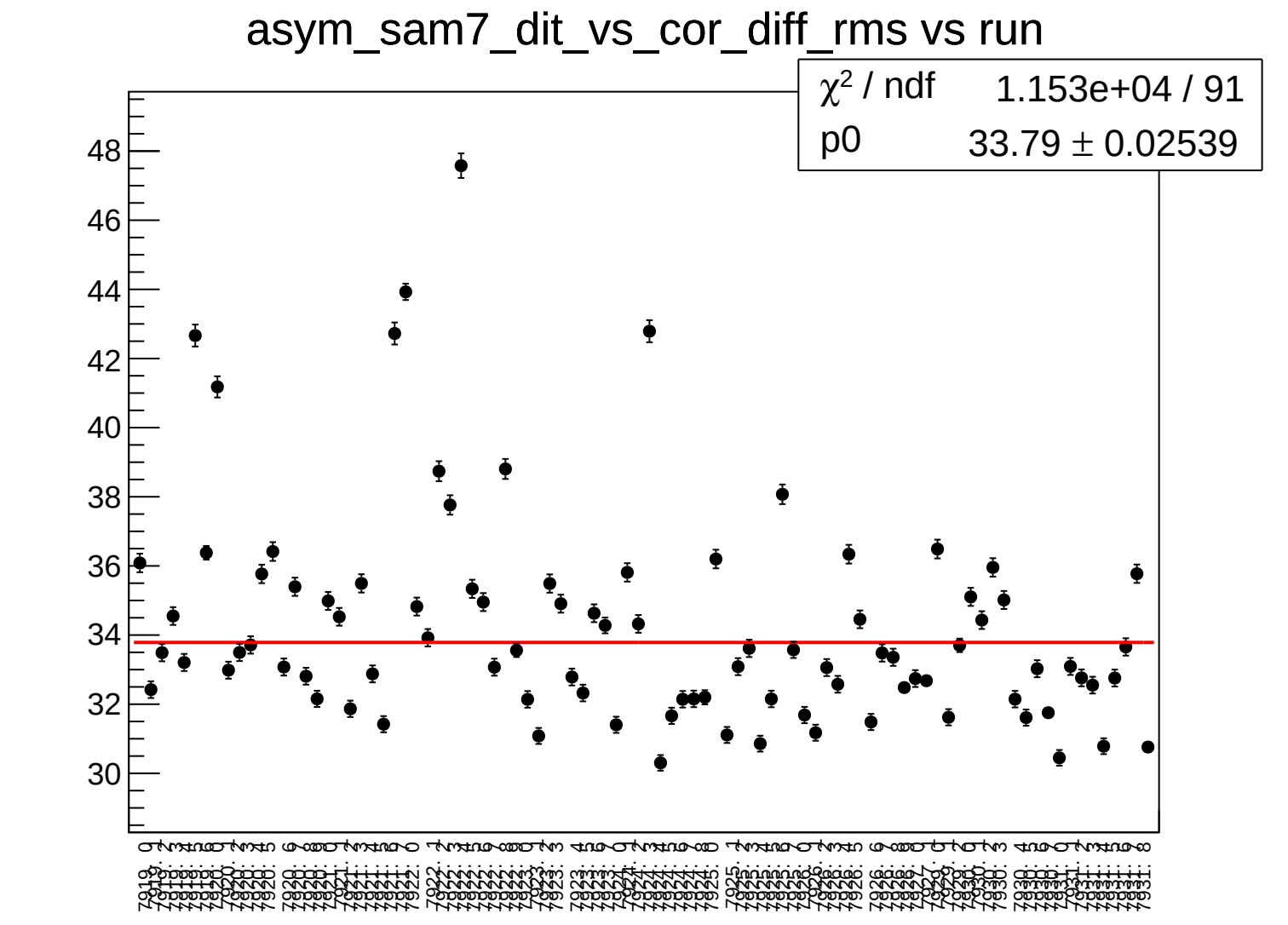

asym_sam7_rms vs run
χ² / ndf 3735 / 91
p0 1081 ± 0.8104
1250
1200
1150
1100
1050
1000
950

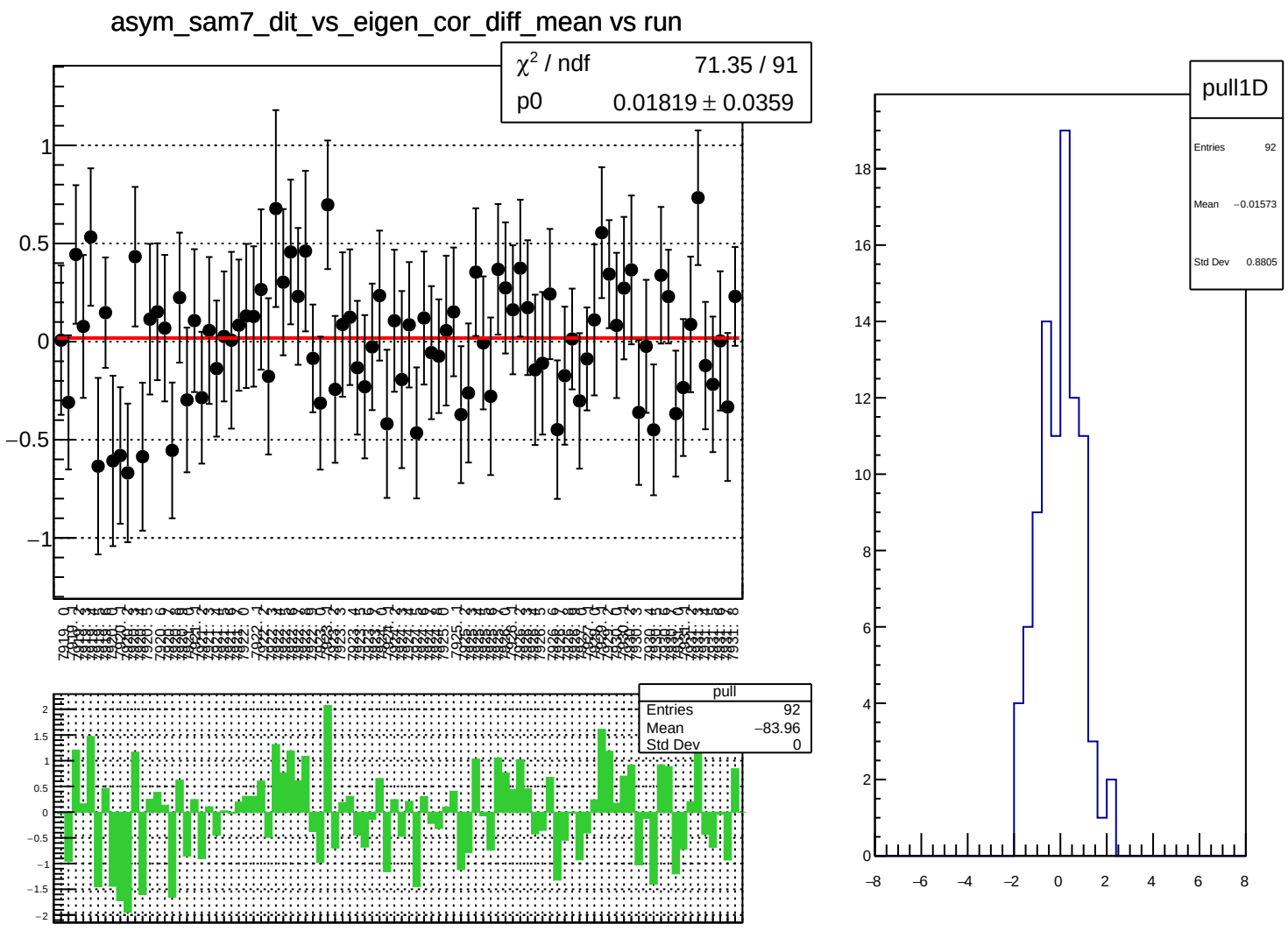

asym_sam7_reg_vs_cor_diff_mean vs run
χ² / ndf 106.8 / 91
p0 1.548e−13 ± 2.14e−13
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
pull
Entries 92
Mean 164.3
Std Dev 0
3
2
1
0
−1
−2

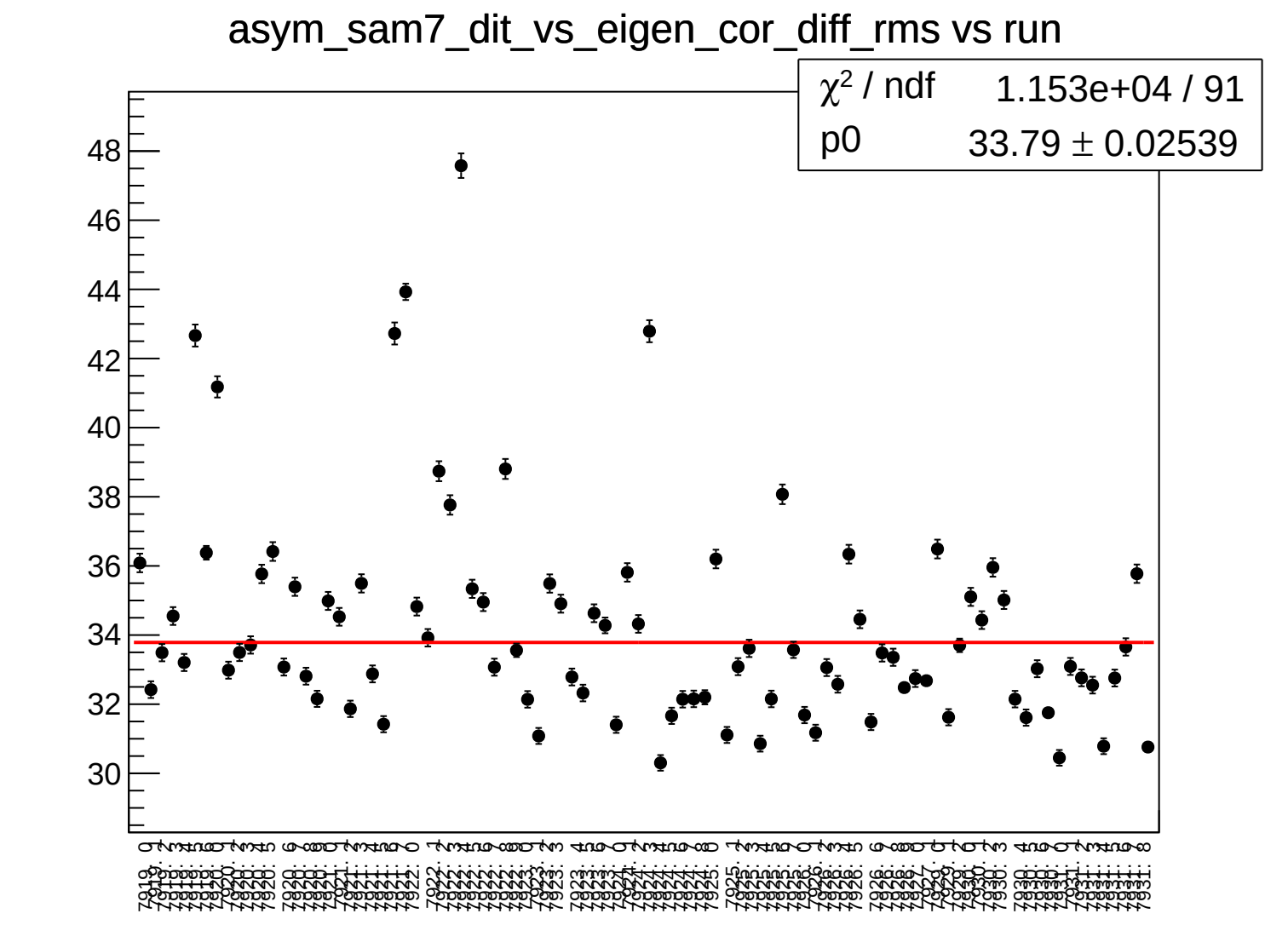

pull1D
Entries 92
Mean 0.05233
Std Dev 1.076
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

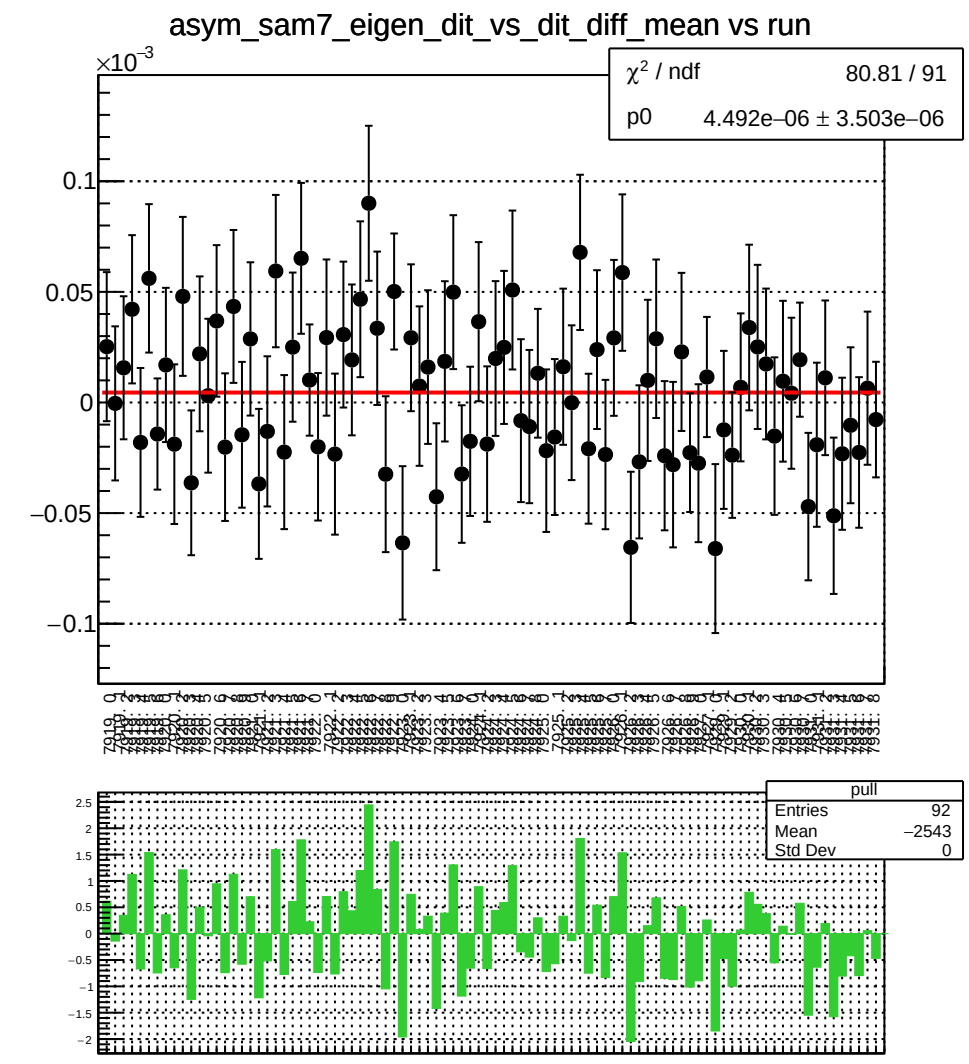

asym_sam7_reg_vs_cor_diff_rms vs run
χ² / ndf 9.075e+05 / 91
p0 1.416e−10 ± 1.513e−13
0.06
0.05
0.04
0.03
0.02
0.01
0

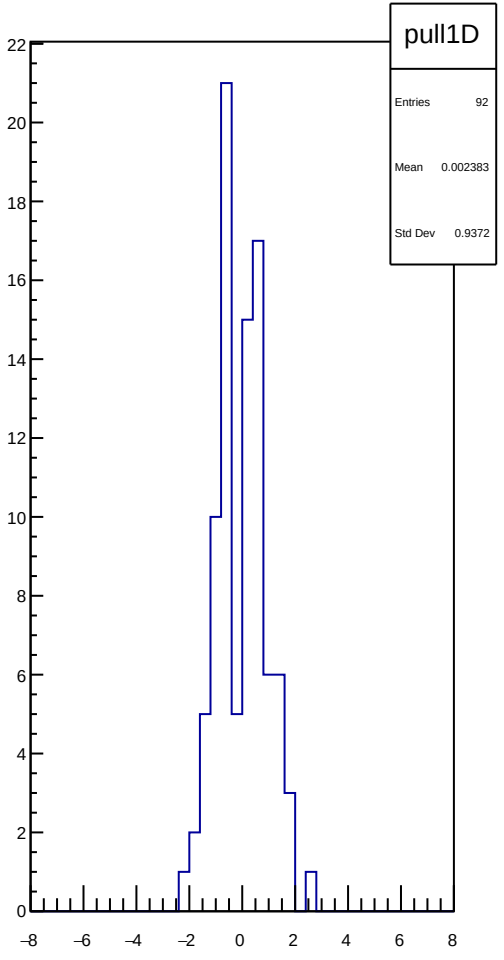

asym_sam7_dit_vs_cor_diff_mean vs run
χ² / ndf 71.35 / 91
p0 0.01819 ± 0.0359
pull
Entries 92
Mean −83.96
Std Dev 0
pull1D
Entries 92
Mean −0.01573
Std Dev 0.8805

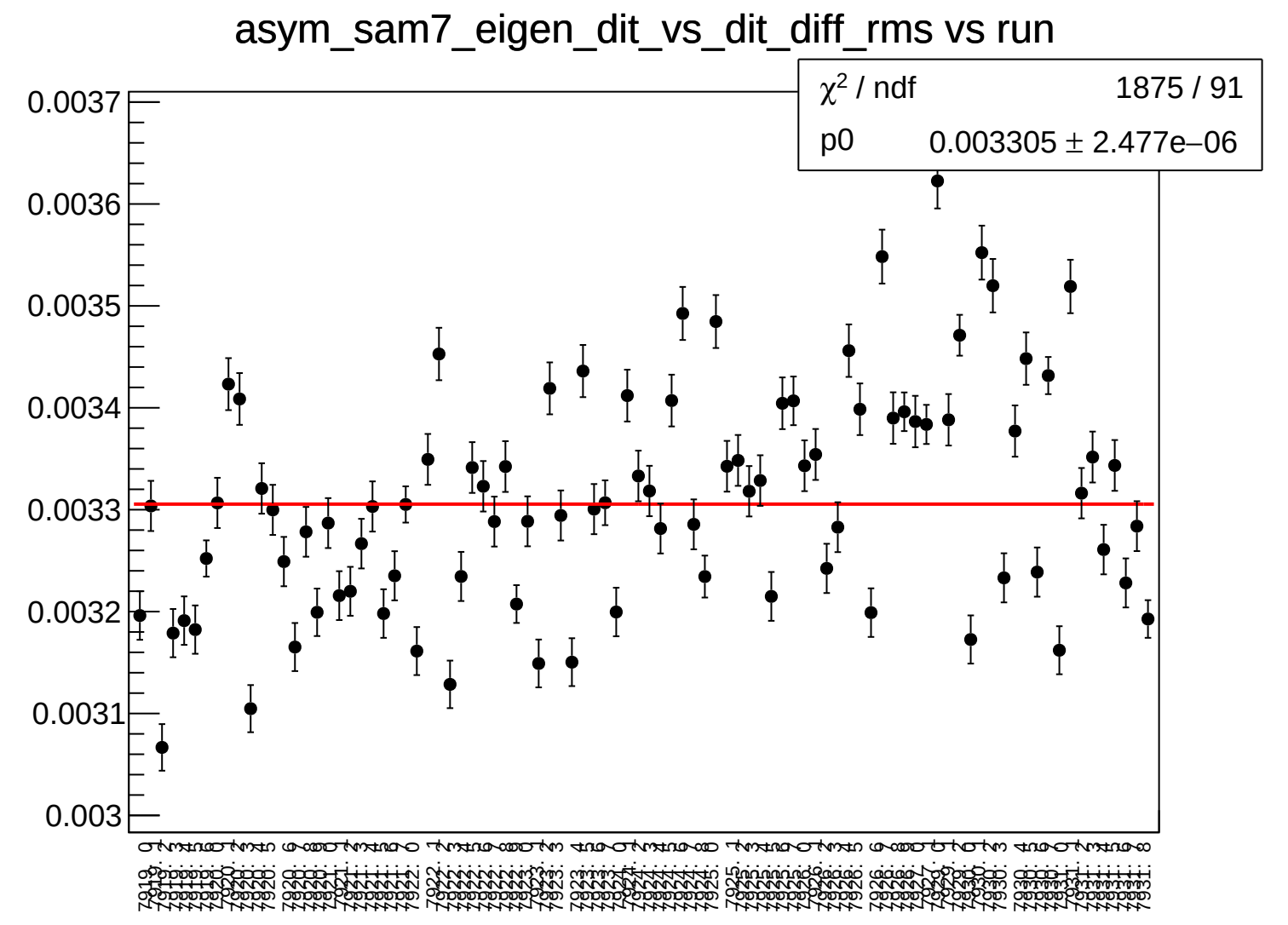

asym_sam7_dit_vs_cor_diff_rms vs run
χ² / ndf 1.153e+04 / 91
p0 33.79 ± 0.02539
48
46
44
42
40
38
36
34
32
30

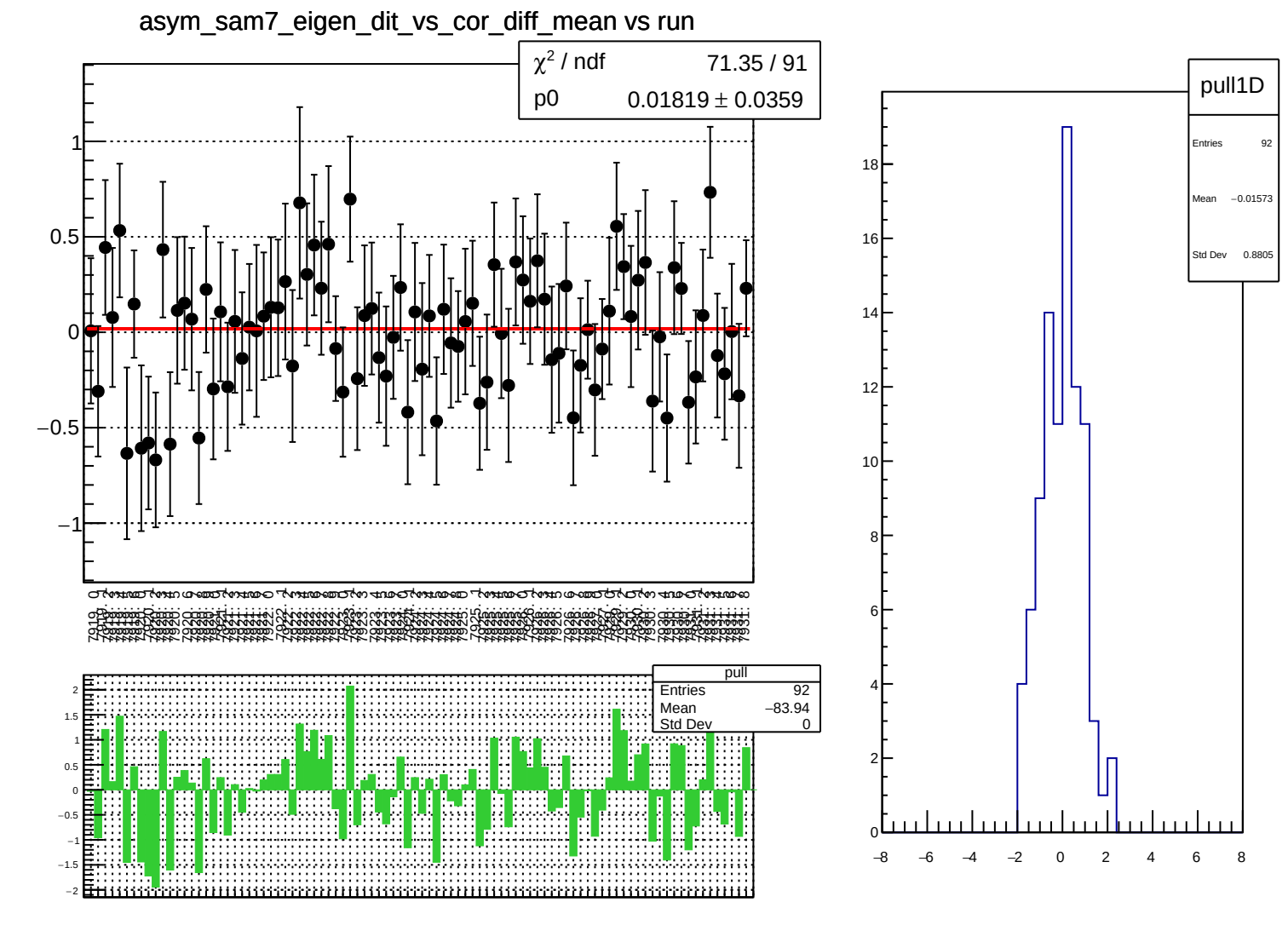

asym_sam7_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.35 / 91
p0 0.01819 ± 0.0359
pull
Entries 92
Mean −83.96
Std Dev 0
pull1D
Entries 92
Mean −0.01573
Std Dev 0.8805

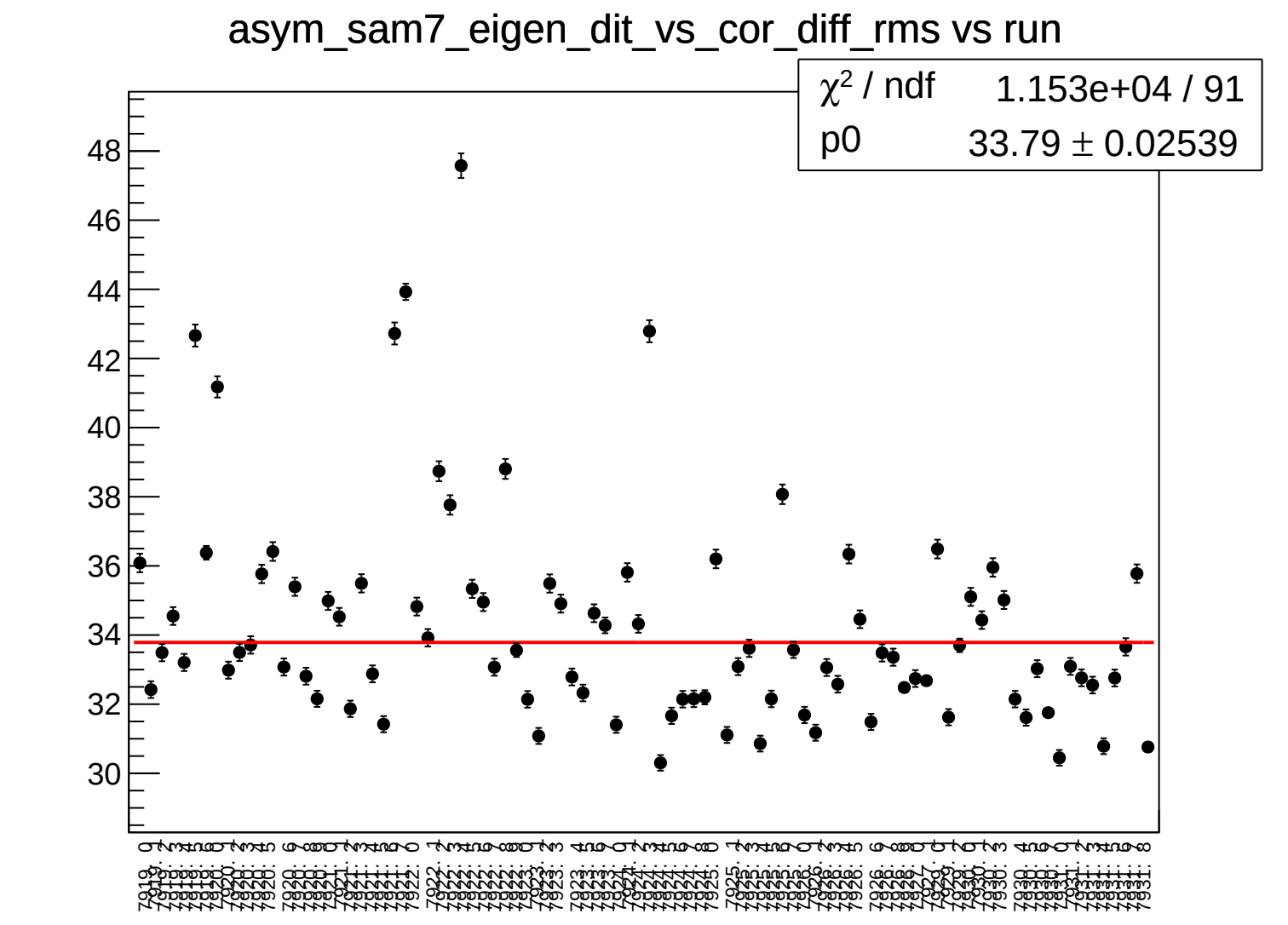

asym_sam7_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.153e+04 / 91
p0 33.79 ± 0.02539
48
46
44
42
40
38
36
34
32
30

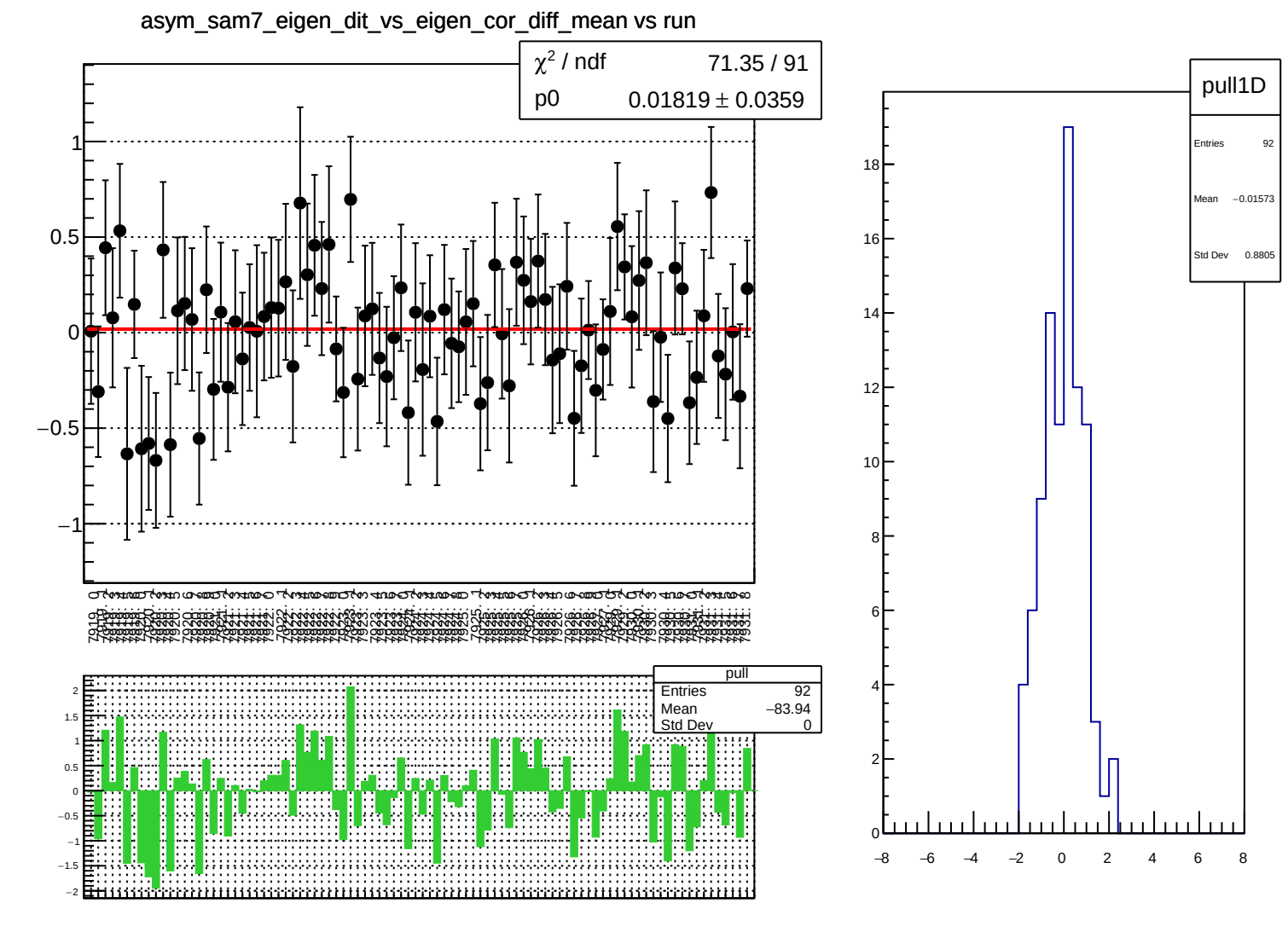

asym_sam7_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 80.81 / 91
p0 4.492e−06 ± 3.503e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 92
Mean −2543
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

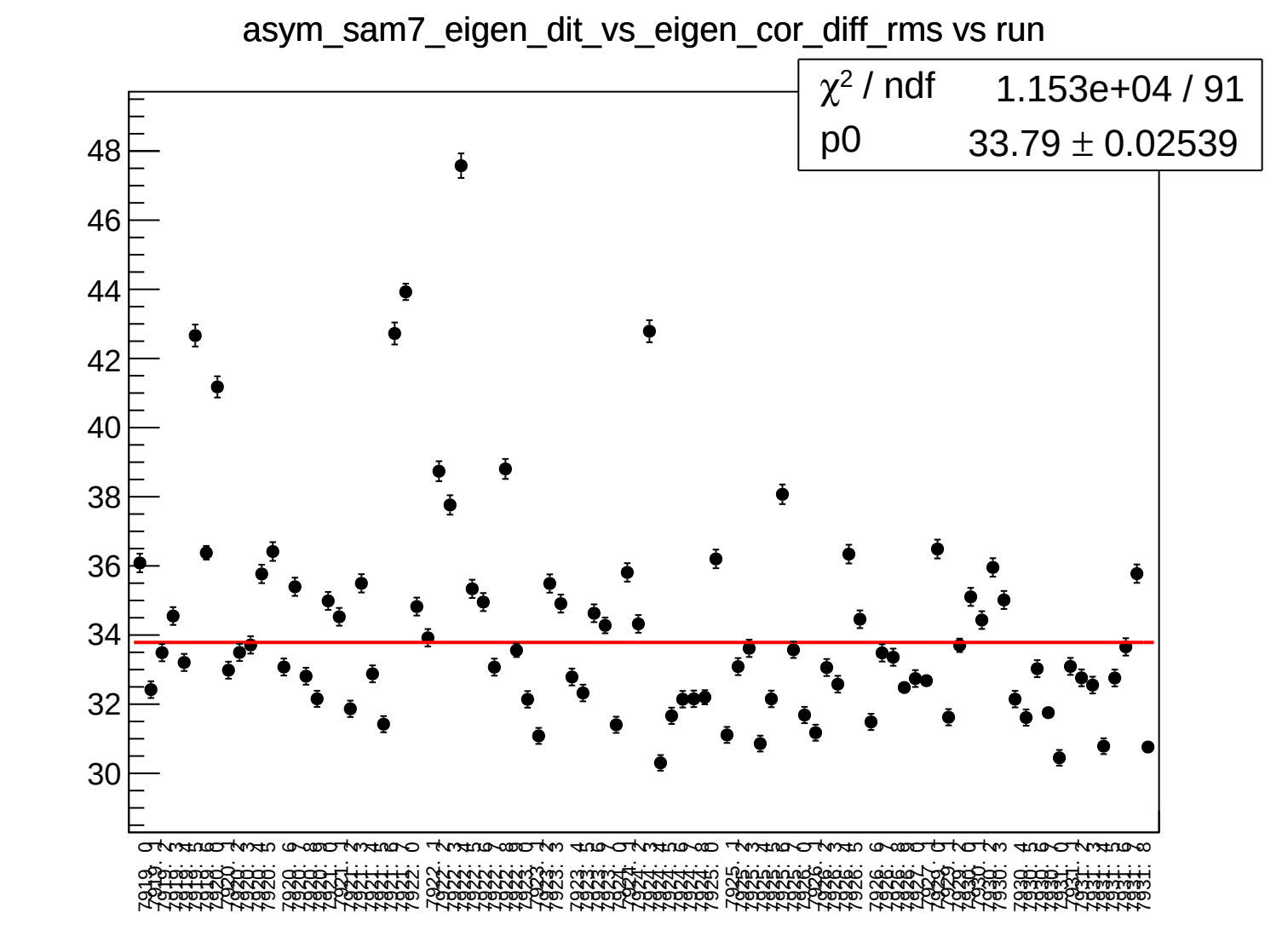

pull1D
Entries 92
Mean 0.002383
Std Dev 0.9372
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

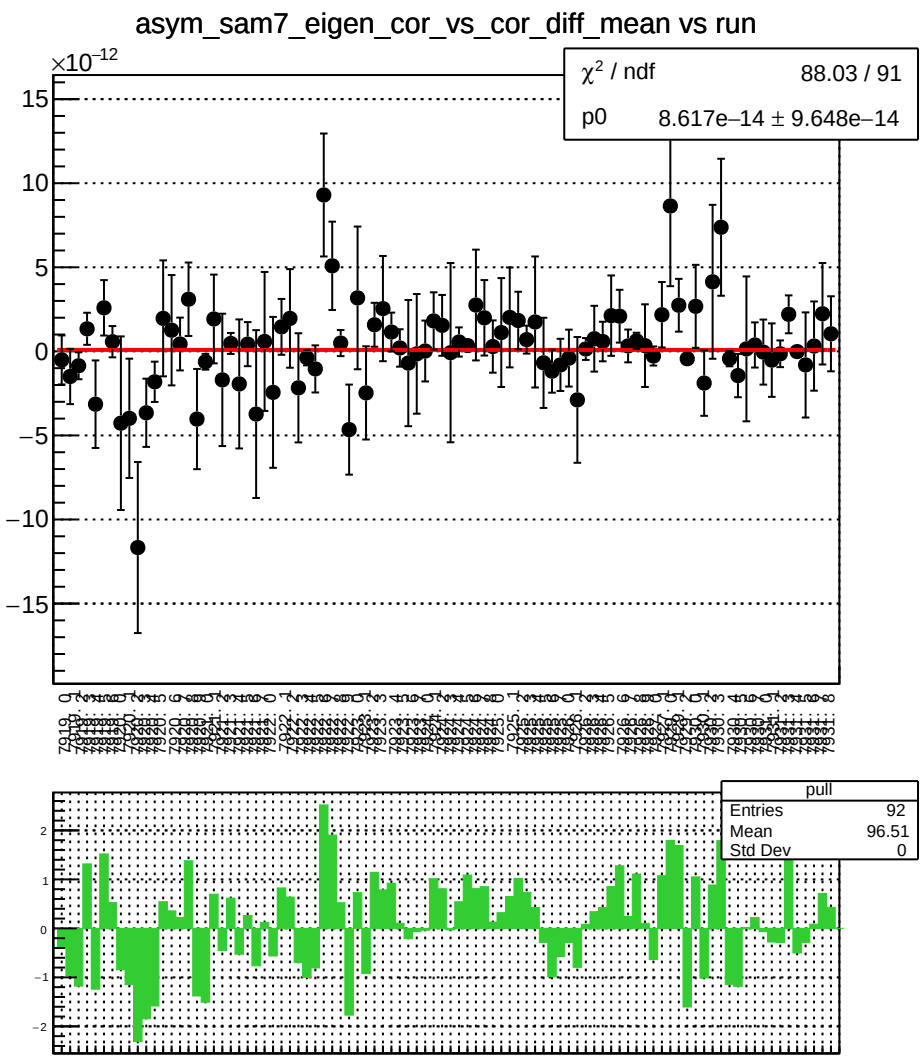

asym_sam7_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1875 / 91
p0 0.003305 ± 2.477e−06
0.0037
0.0036
0.0035
0.0034
0.0033
0.0032
0.0031
0.003

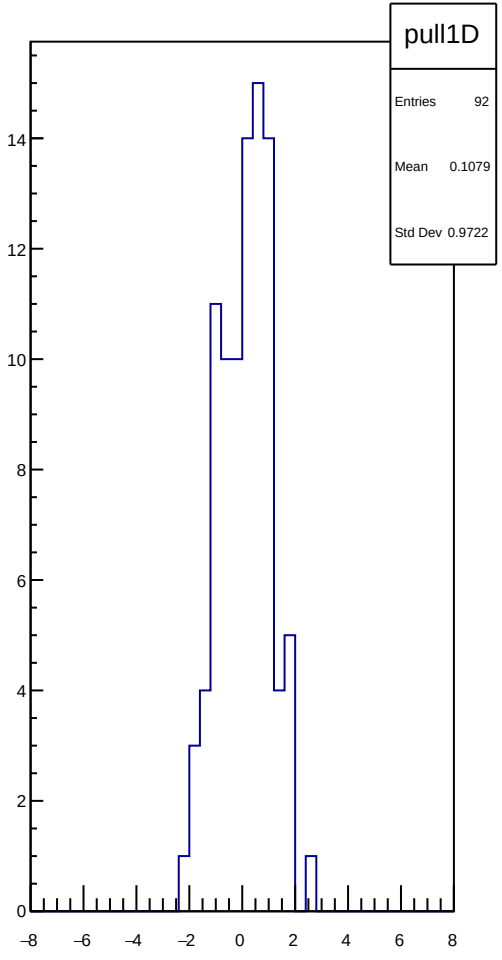

asym_sam7_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 71.35 / 91
p0 0.01819 ± 0.0359
pull
Entries 92
Mean −83.94
Std Dev 0
pull1D
Entries 92
Mean −0.01573
Std Dev 0.8805

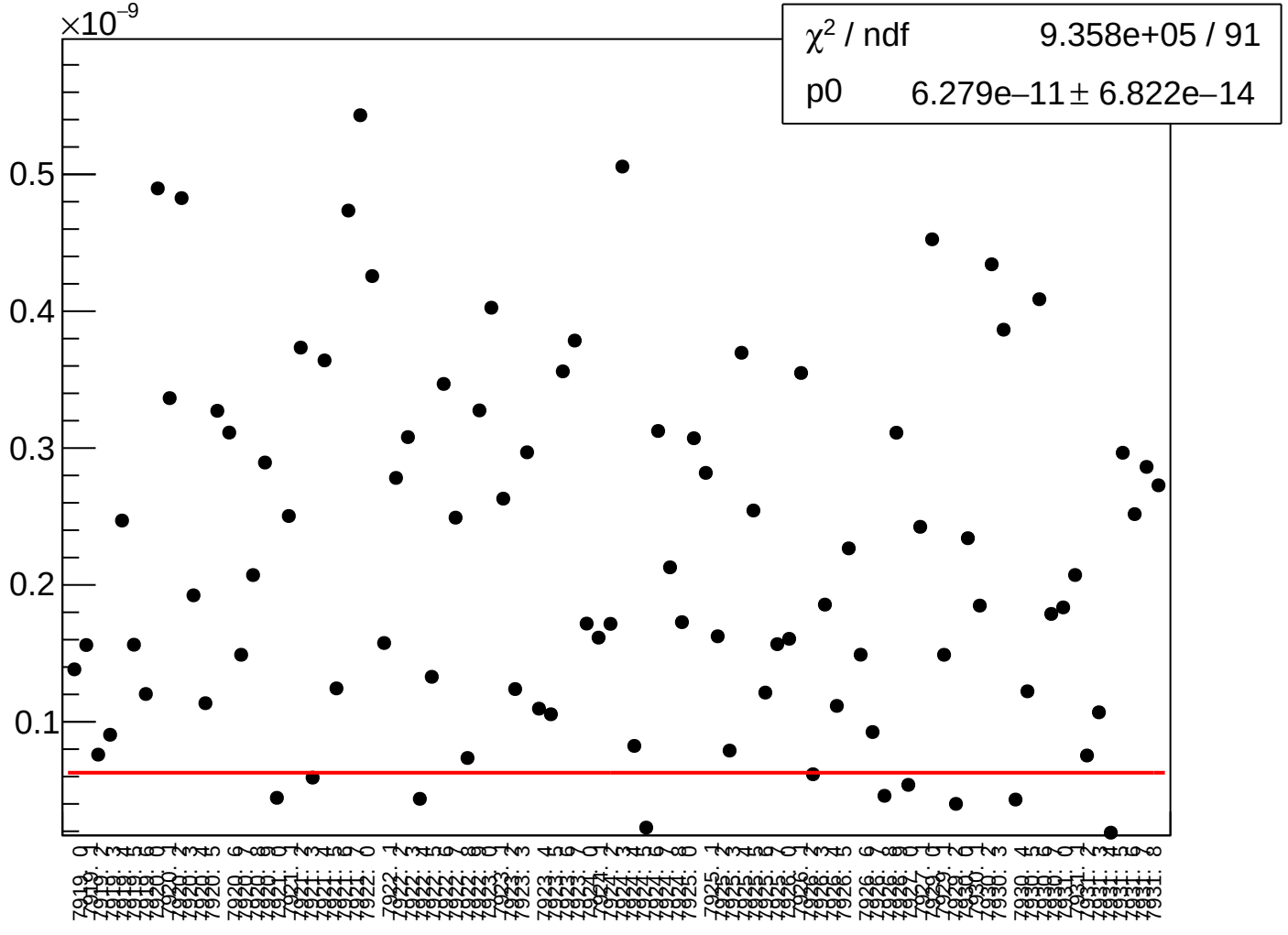

asym_sam7_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.153e+04 / 91
p0 33.79 ± 0.02539
48
46
44
42
40
38
36
34
32
30

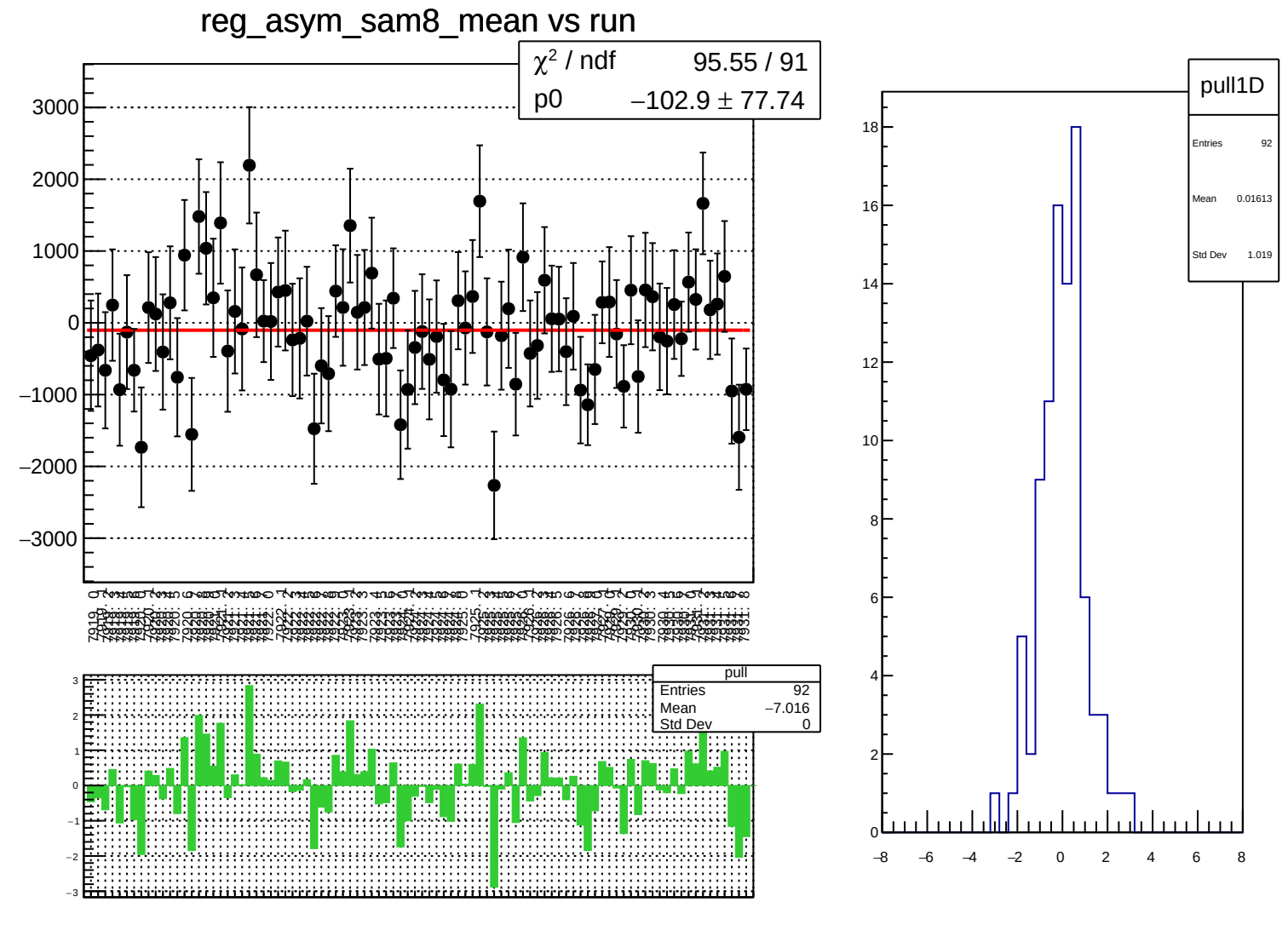

asym_sam7_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.35 / 91
p0 0.01819 ± 0.0359
pull
Entries 92
Mean −83.94
Std Dev 0
pull1D
Entries 92
Mean −0.01573
Std Dev 0.8805

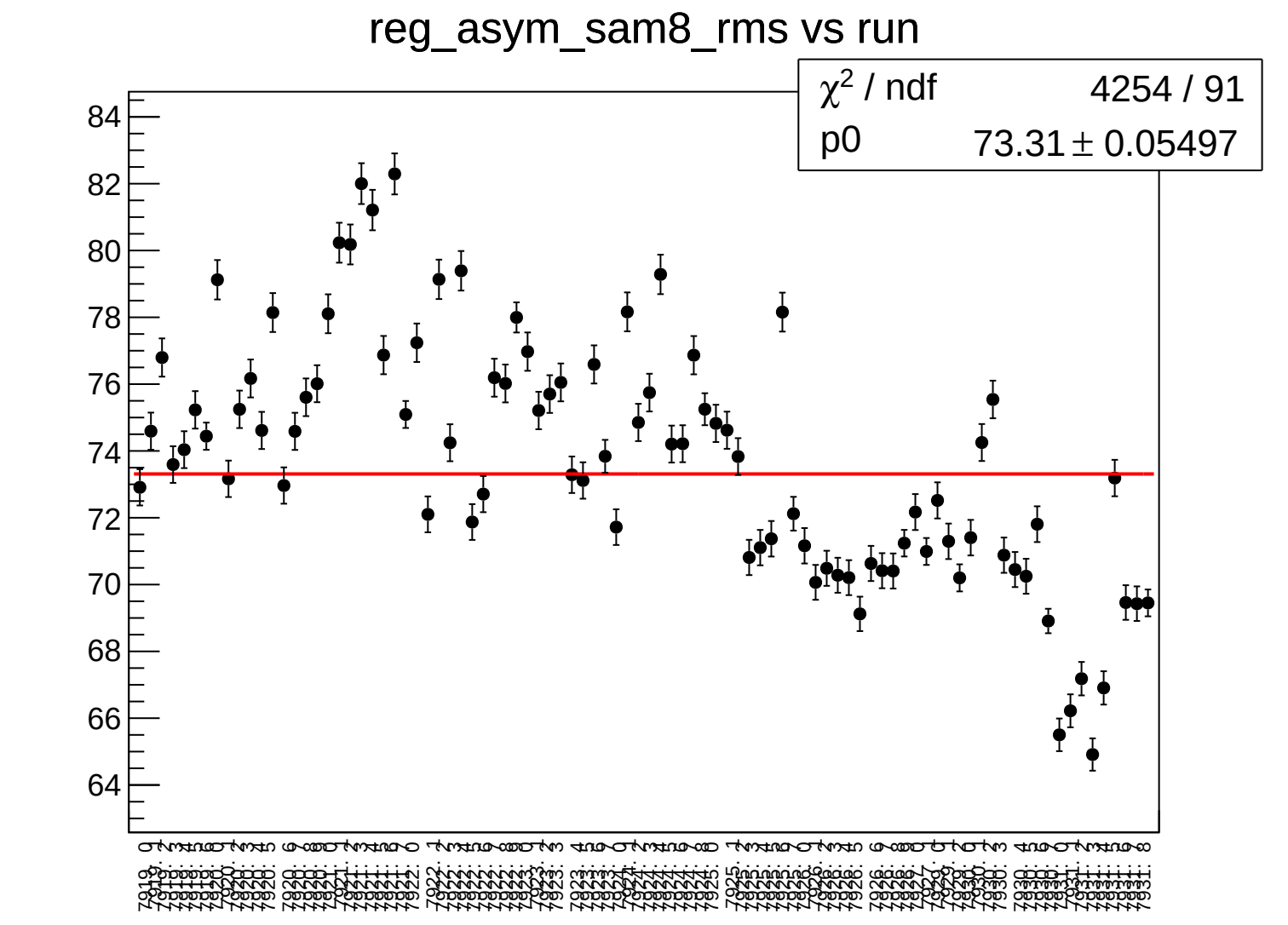

asym_sam7_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.153e+04 / 91
p0 33.79 ± 0.02539
48
46
44
42
40
38
36
34
32
30

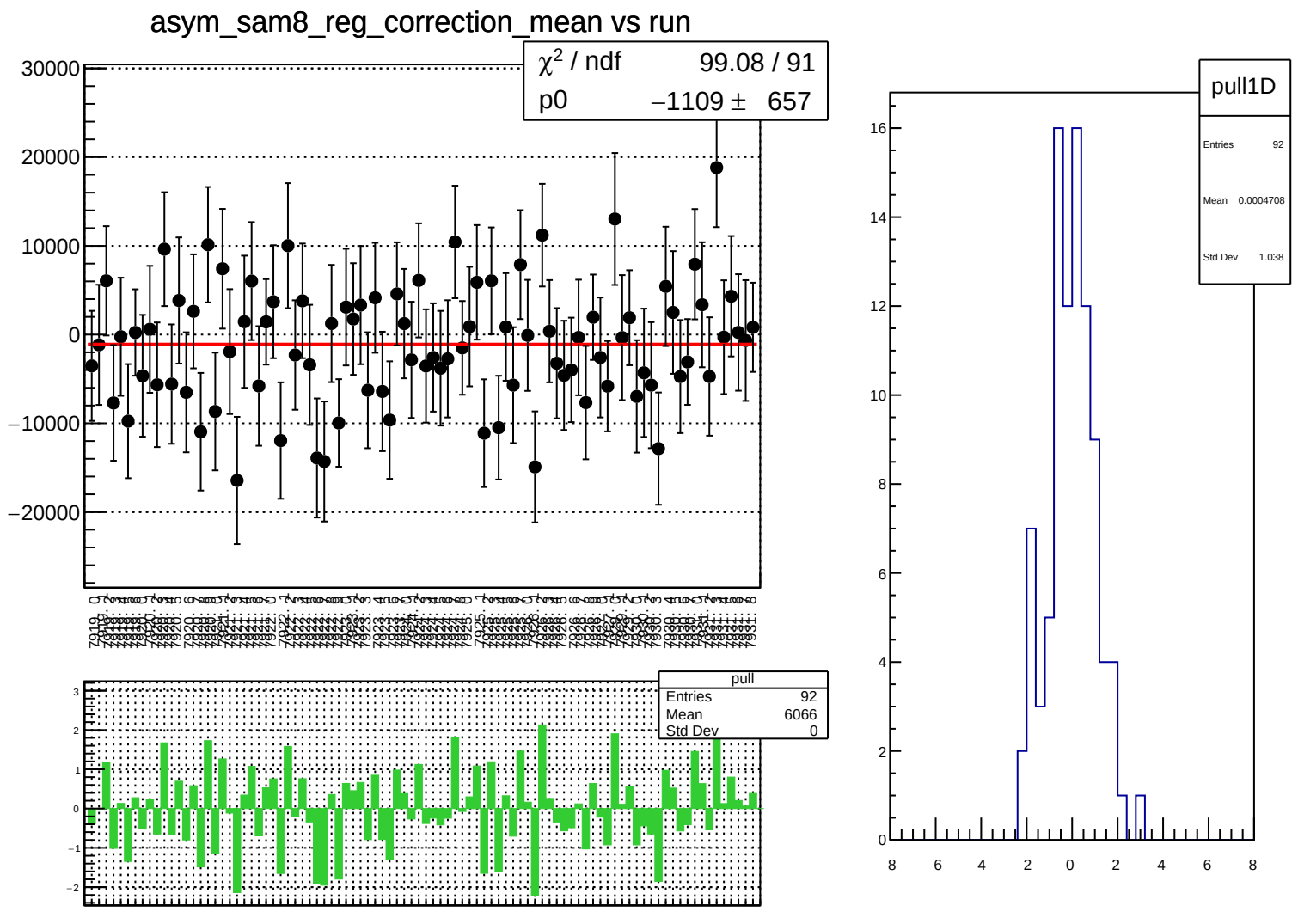

asym_sam7_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.03 / 91
p0 8.617e−14 ± 9.648e−14
pull
Entries 92
Mean 96.51
Std Dev 0

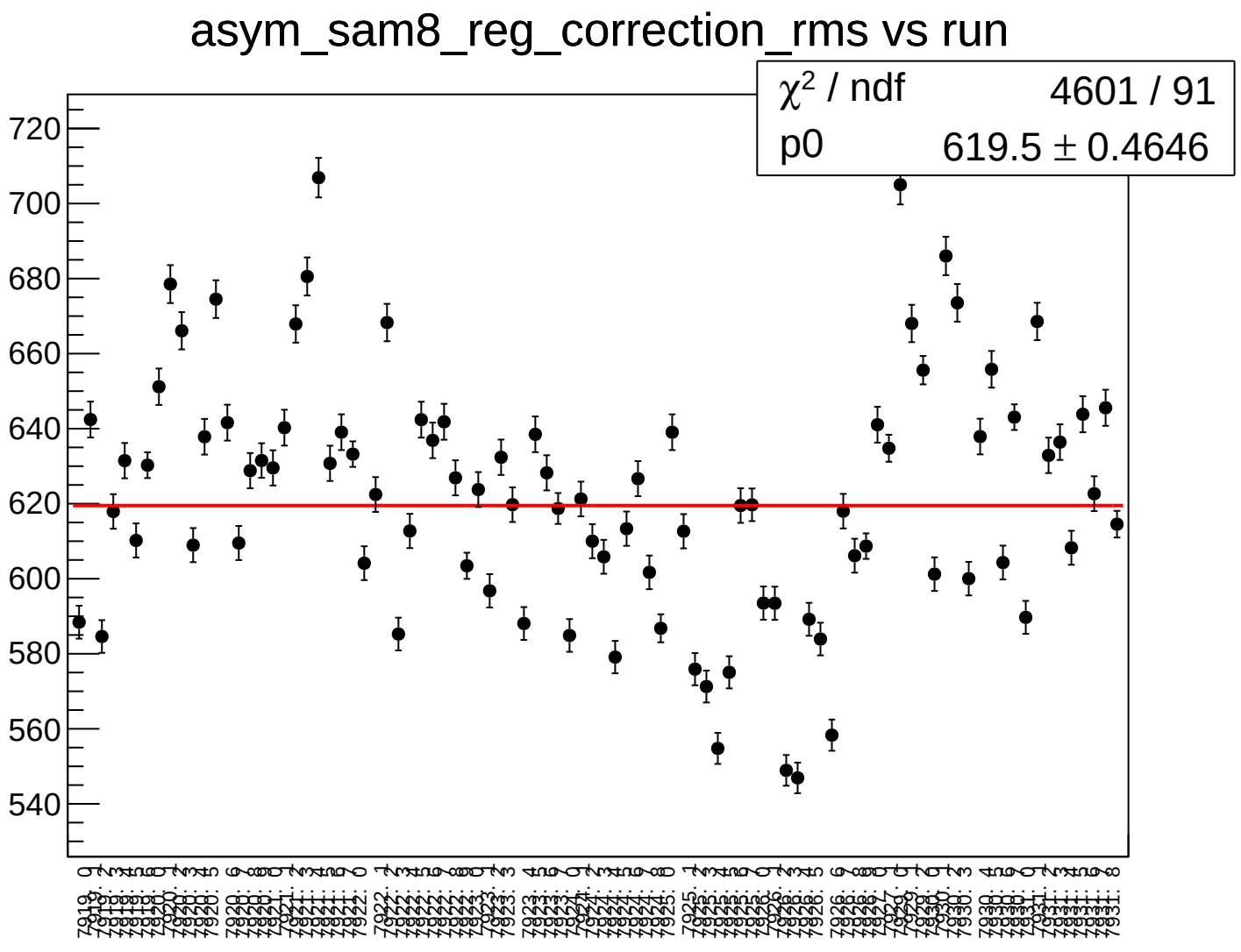

pull1D
Entries 92
Mean 0.1079
Std Dev 0.9722

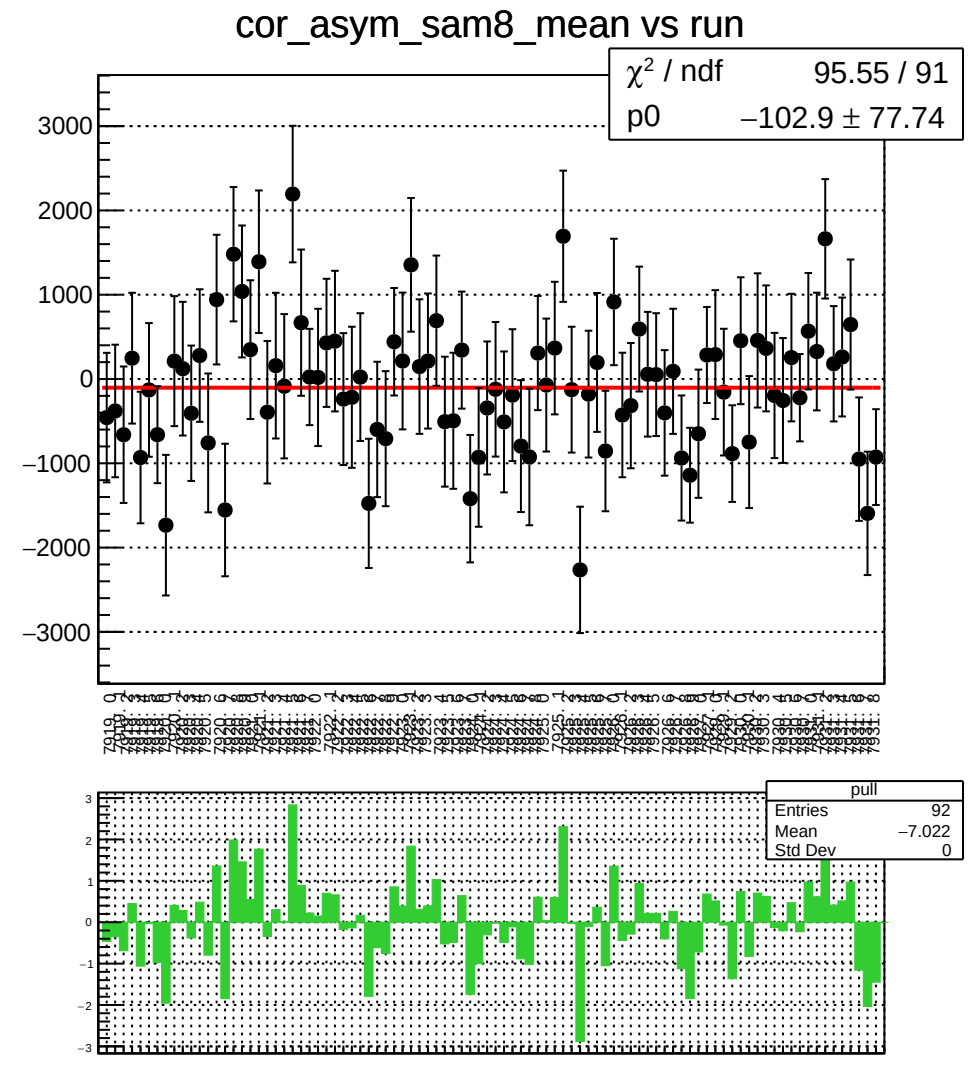

asym_sam7_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.358e+05 / 91
p0 6.279e−11 ± 6.822e−14
0.5
0.4
0.3
0.2
0.1

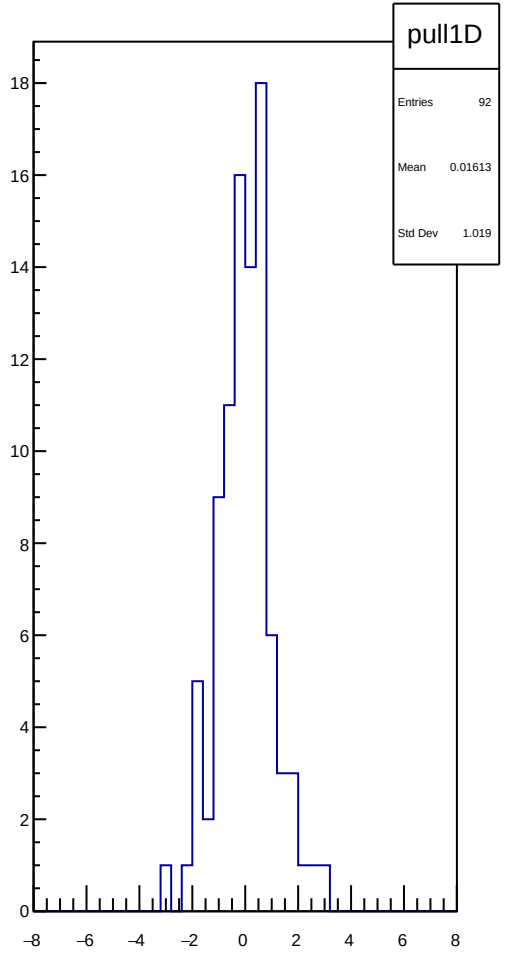

reg_asym_sam8_mean vs run
χ² / ndf 95.55 / 91
p0 −102.9 ± 77.74
pull
Entries 92
Mean −7.016
Std Dev 0
pull1D
Entries 92
Mean 0.01613
Std Dev 1.019

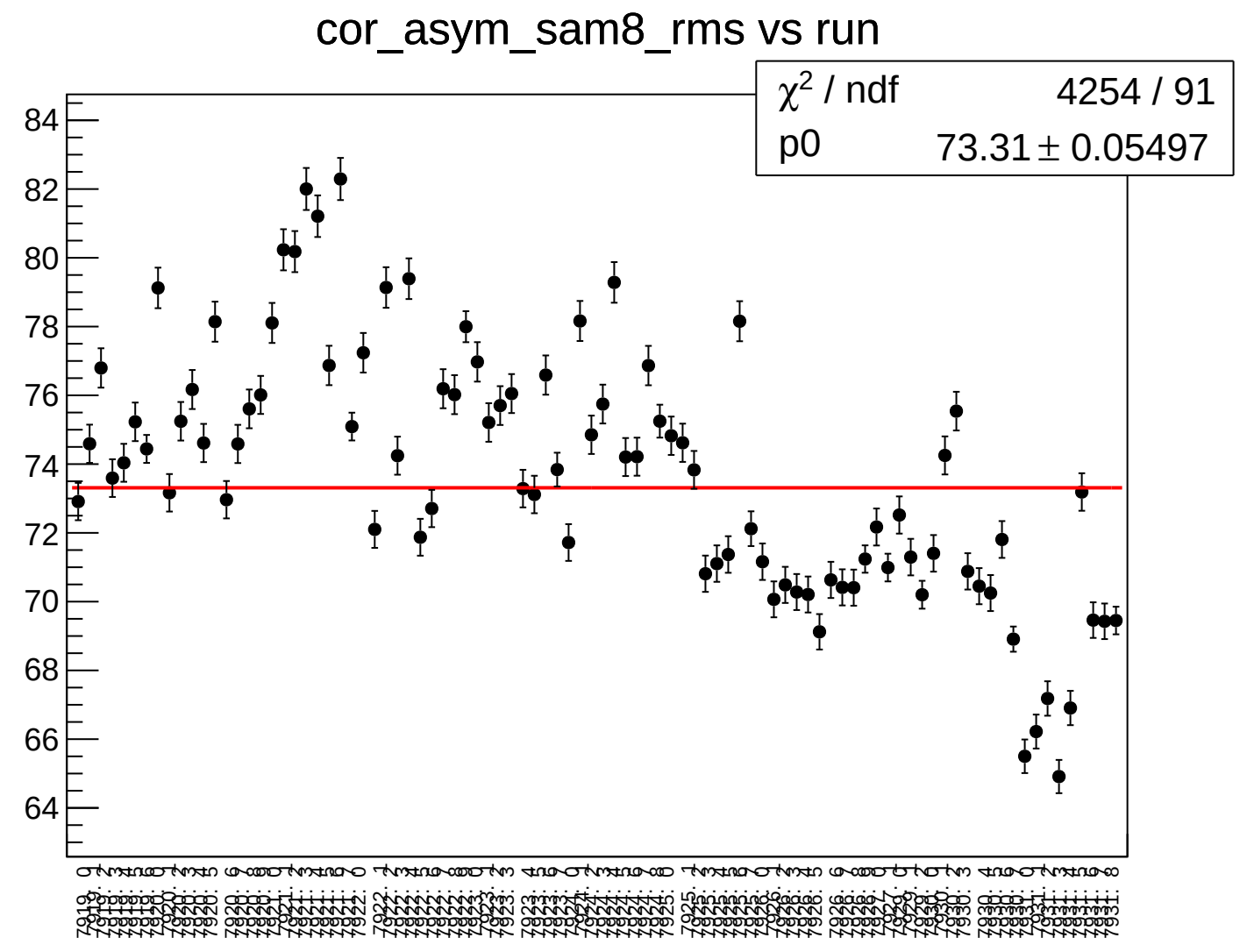

reg_asym_sam8_rms vs run
χ^2 / ndf 4254 / 91
p0 73.31 ± 0.05497
84
82
80
78
76
74
72
70
68
66
64

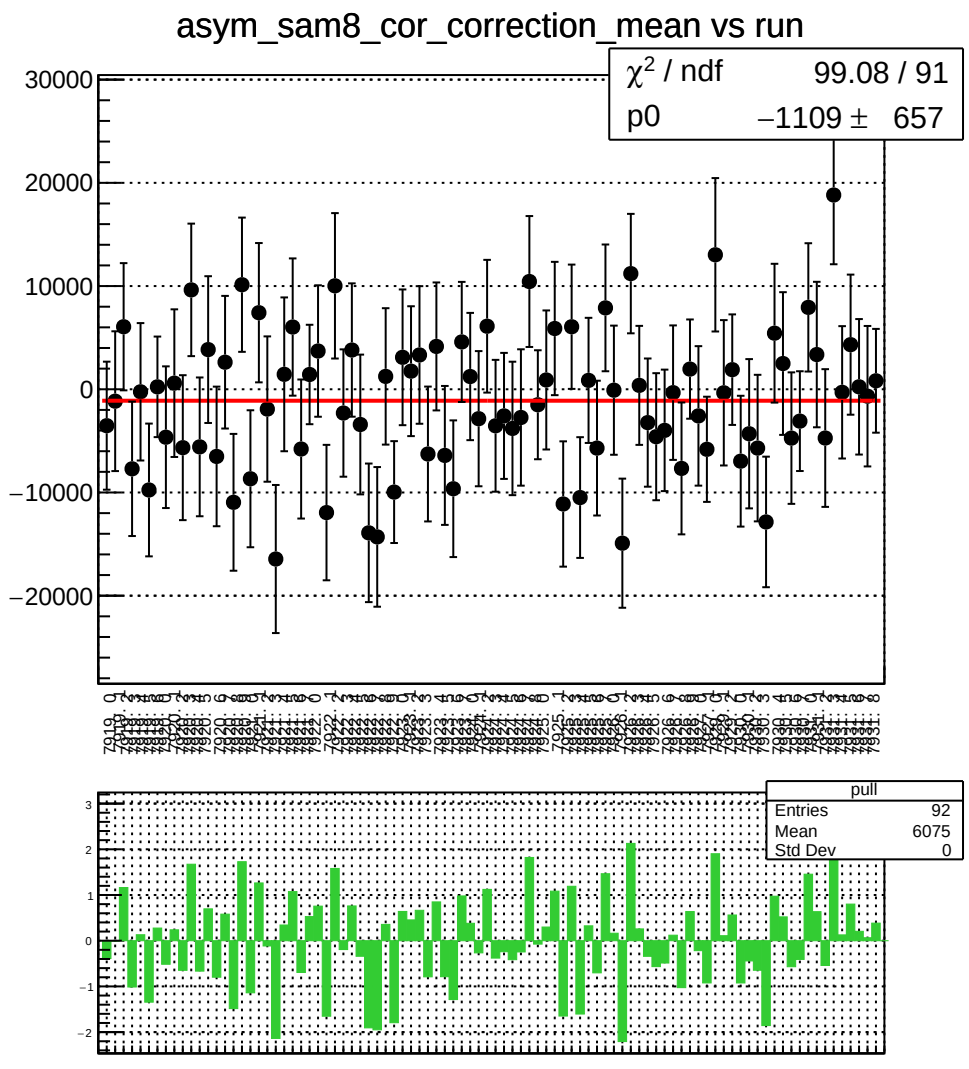

asym_sam8_reg_correction_mean vs run
χ² / ndf 99.08 / 91
p0 −1109 ± 657
pull
Entries 92
Mean 6066
Std Dev 0
pull1D
Entries 92
Mean 0.0004708
Std Dev 1.038

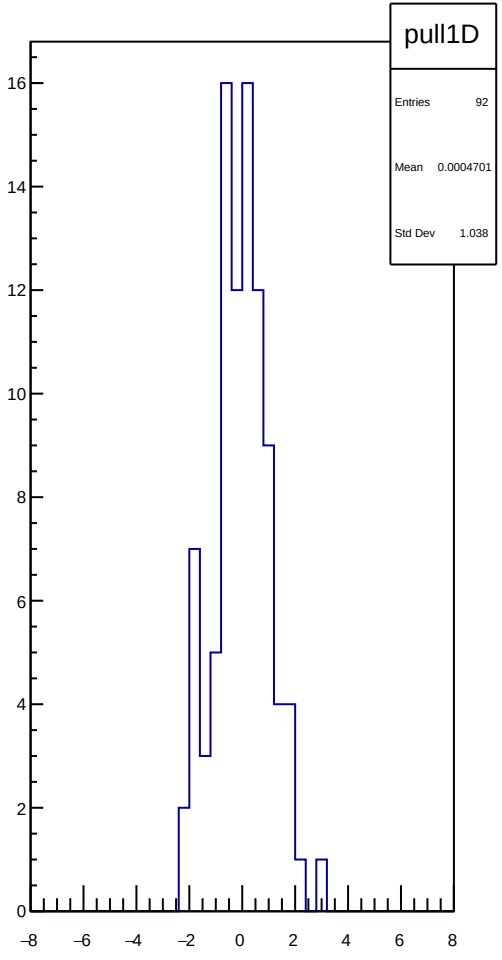

asym_sam8_reg_correction_rms vs run
χ² / ndf 4601 / 91
p0 619.5 ± 0.4646
720
700
680
660
640
620
600
580
560
540

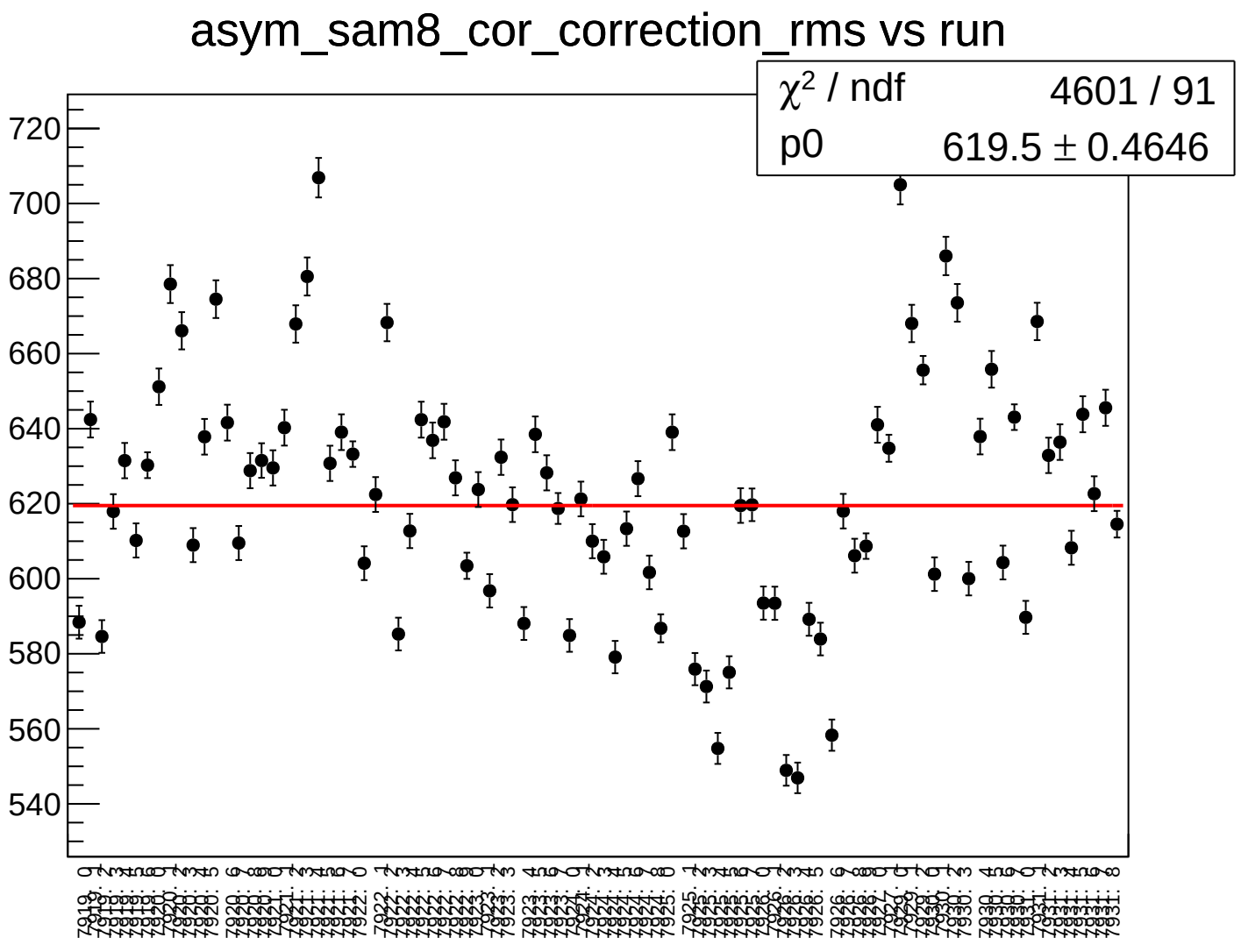

cor_asym_sam8_mean vs run
χ² / ndf 95.55 / 91
p0 −102.9 ± 77.74
pull
Entries 92
Mean −7.022
Std Dev 0

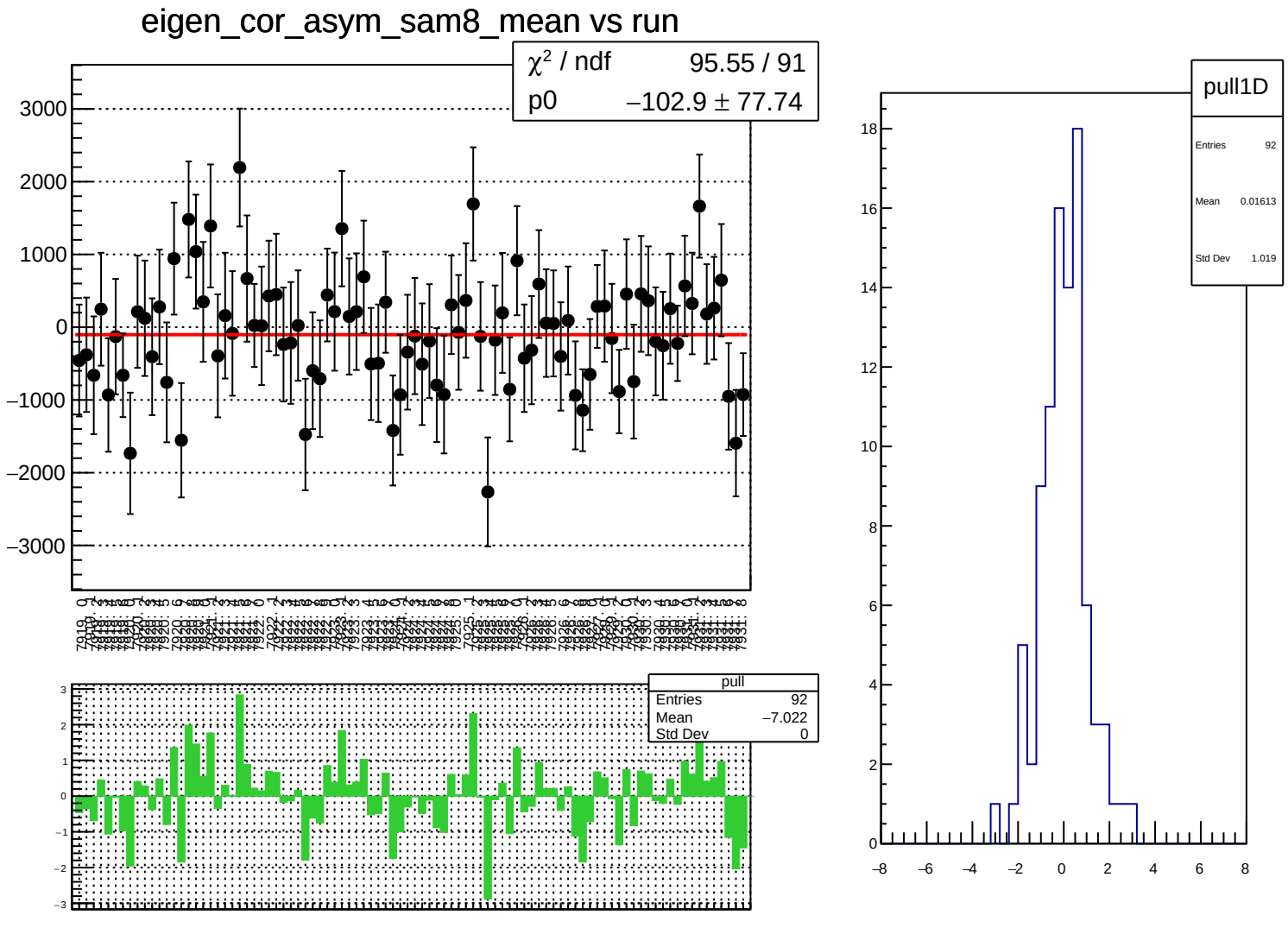

pull1D
Entries 92
Mean 0.01613
Std Dev 1.019

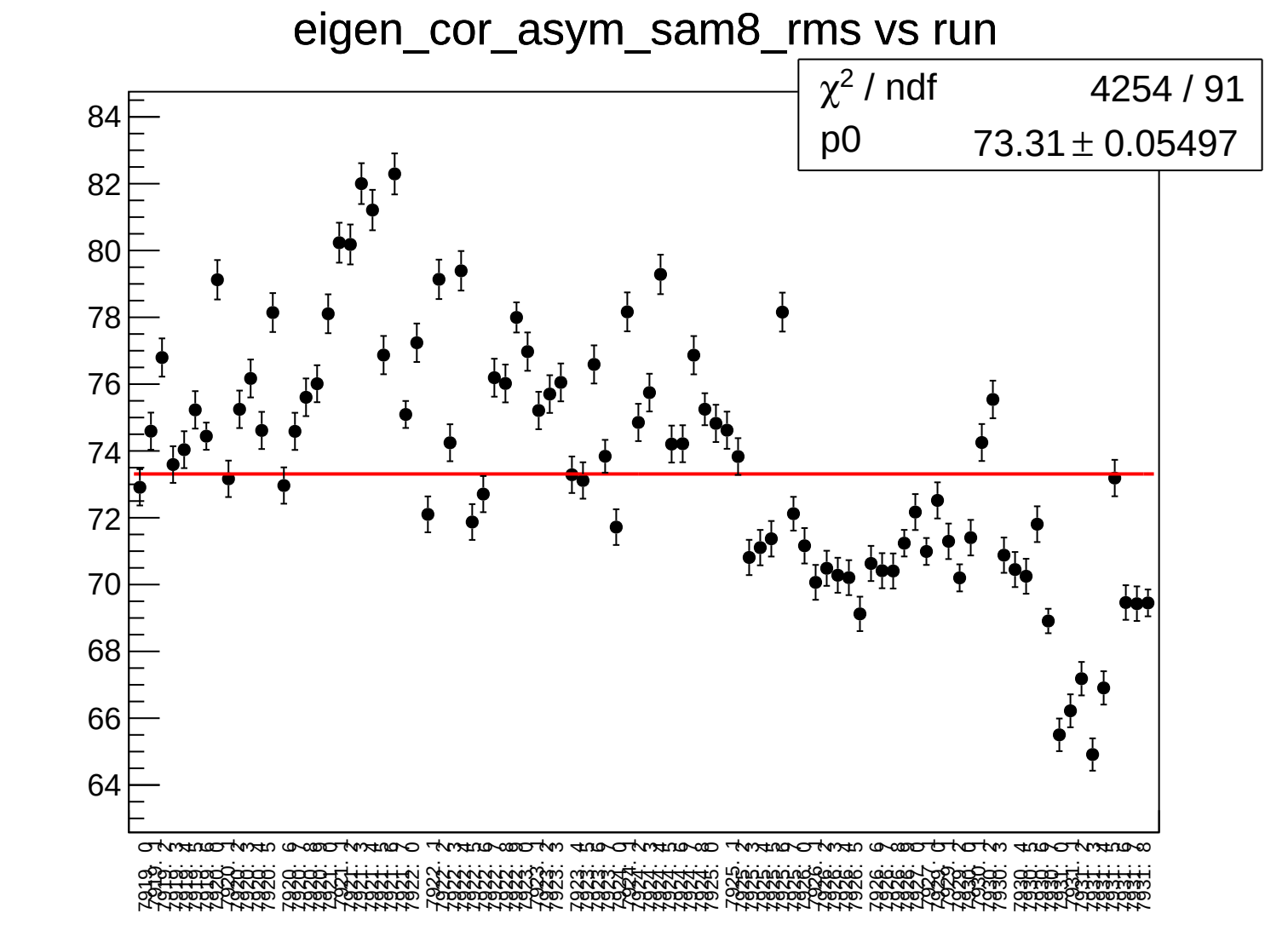

cor_asym_sam8_rms vs run
χ² / ndf 4254 / 91
p0 73.31 ± 0.05497
84
82
80
78
76
74
72
70
68
66
64

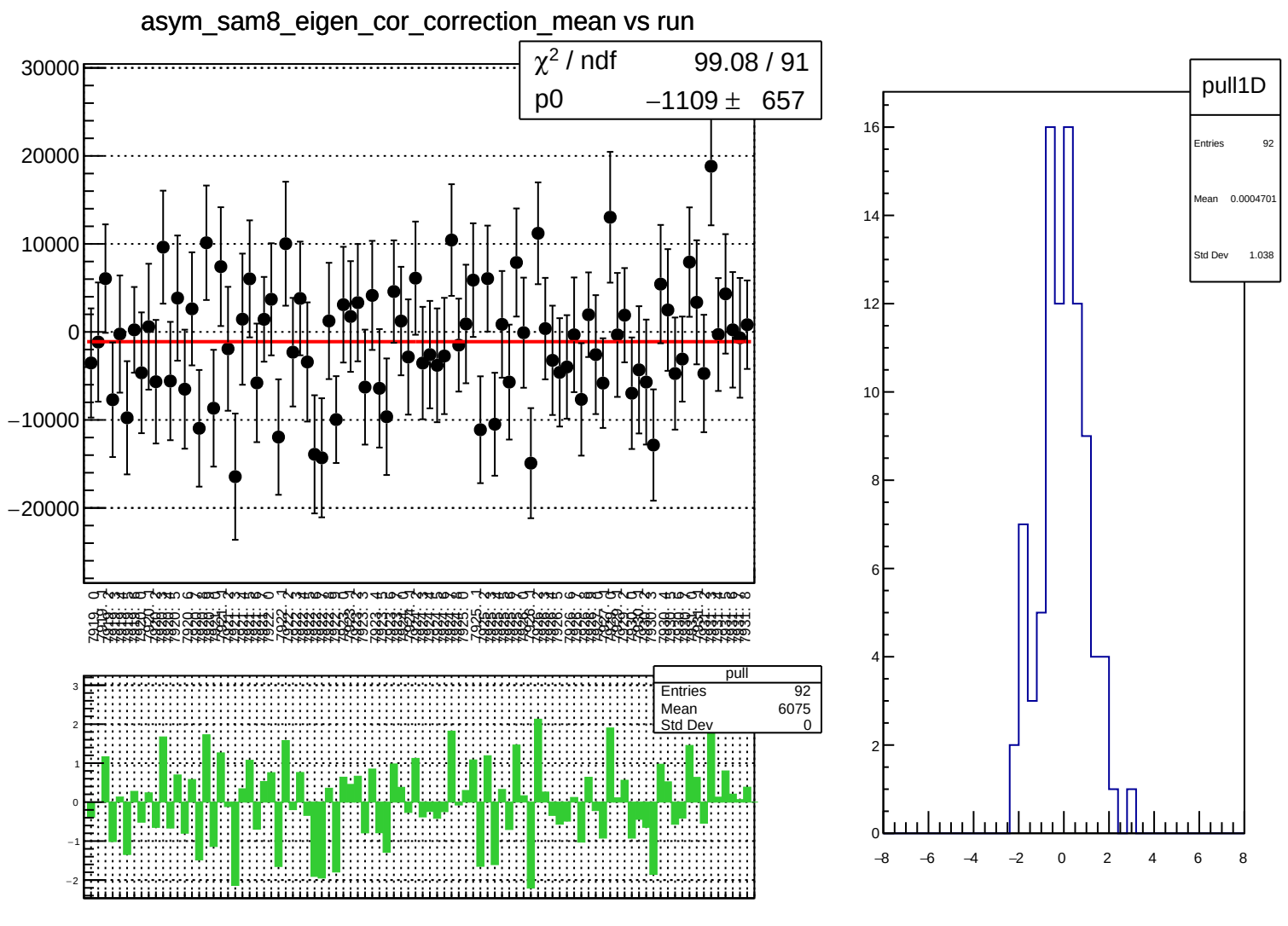

asym_sam8_cor_correction_mean vs run
χ² / ndf 99.08 / 91
p0 −1109 ± 657
pull
Entries 92
Mean 6075
Std Dev 0

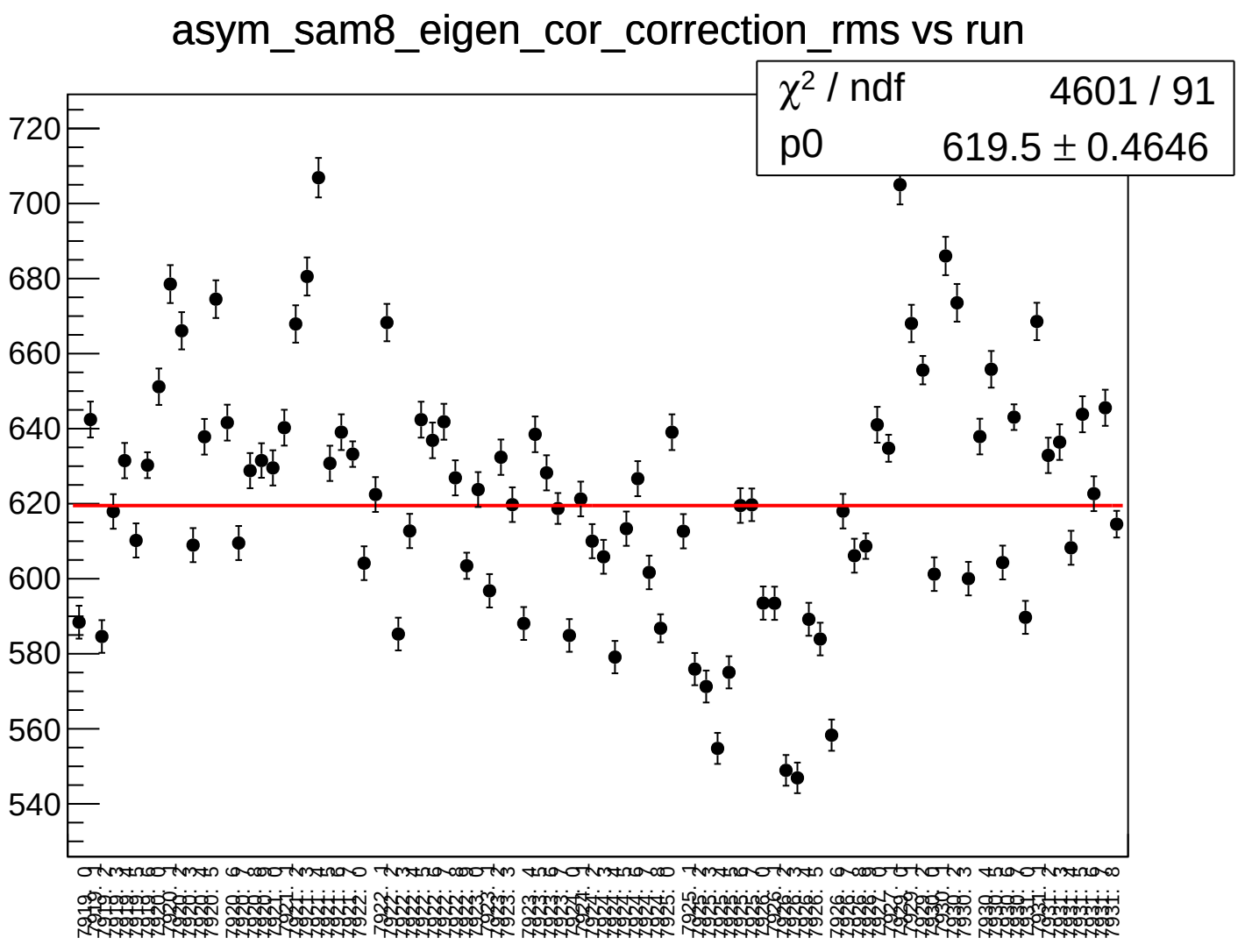

pull1D
Entries 92
Mean 0.0004701
Std Dev 1.038

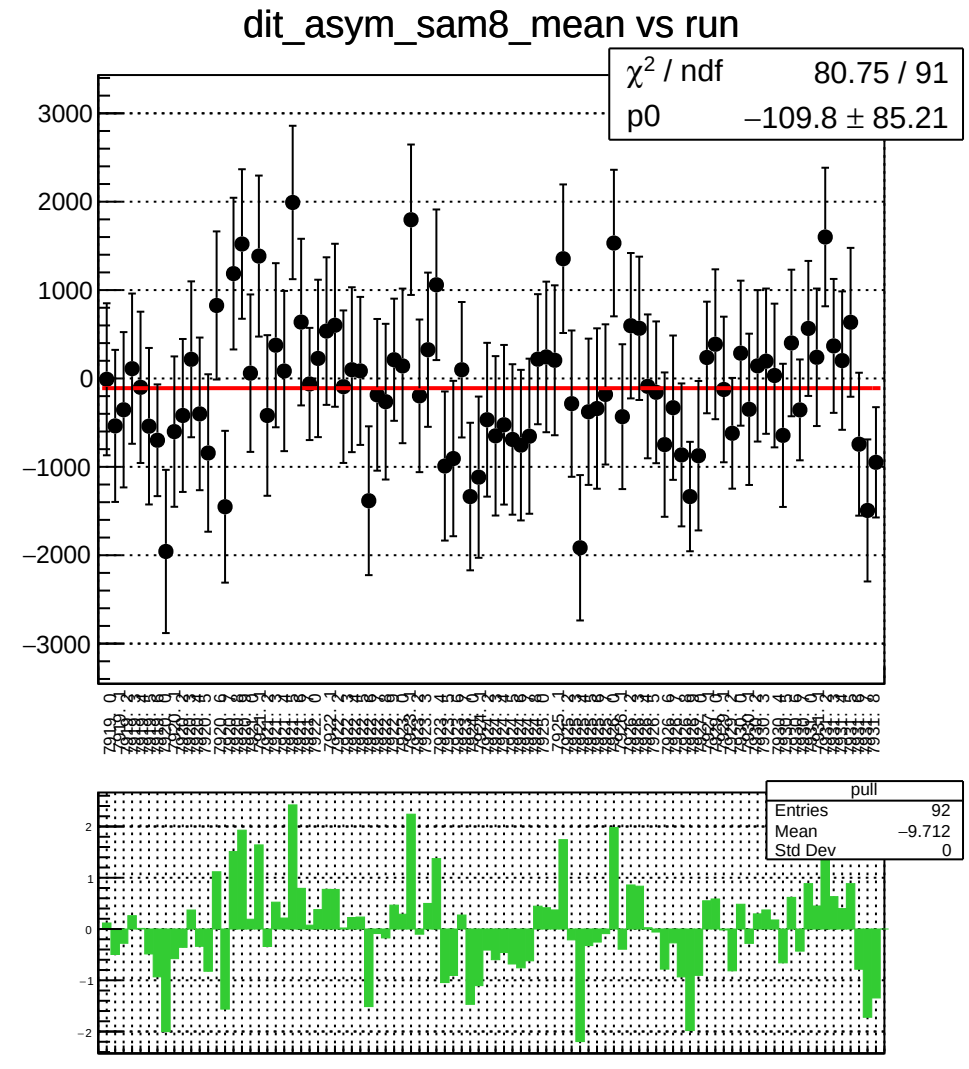

asym_sam8_cor_correction_rms vs run
χ² / ndf 4601 / 91
p0 619.5 ± 0.4646
720
700
680
660
640
620
600
580
560
540

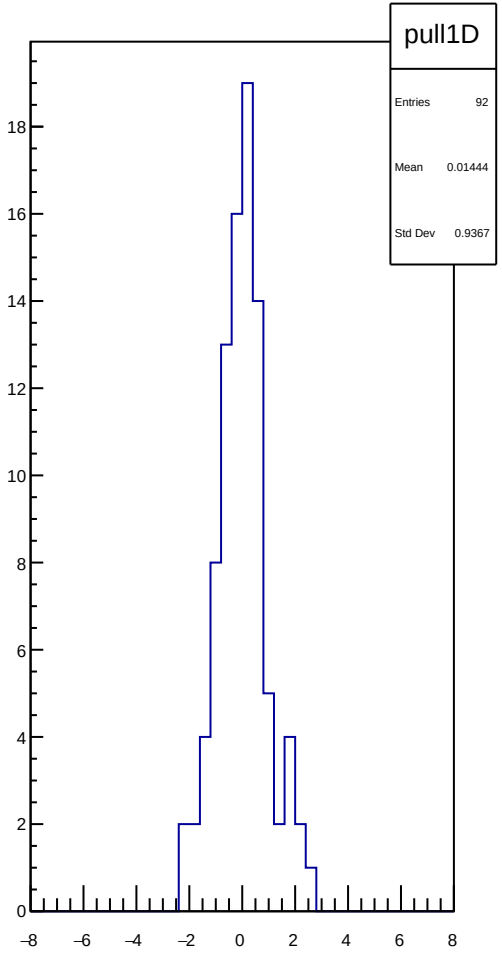

eigen_cor_asym_sam8_mean vs run
χ² / ndf 95.55 / 91
p0 −102.9 ± 77.74
pull
Entries 92
Mean −7.022
Std Dev 0
pull1D
Entries 92
Mean 0.01613
Std Dev 1.019

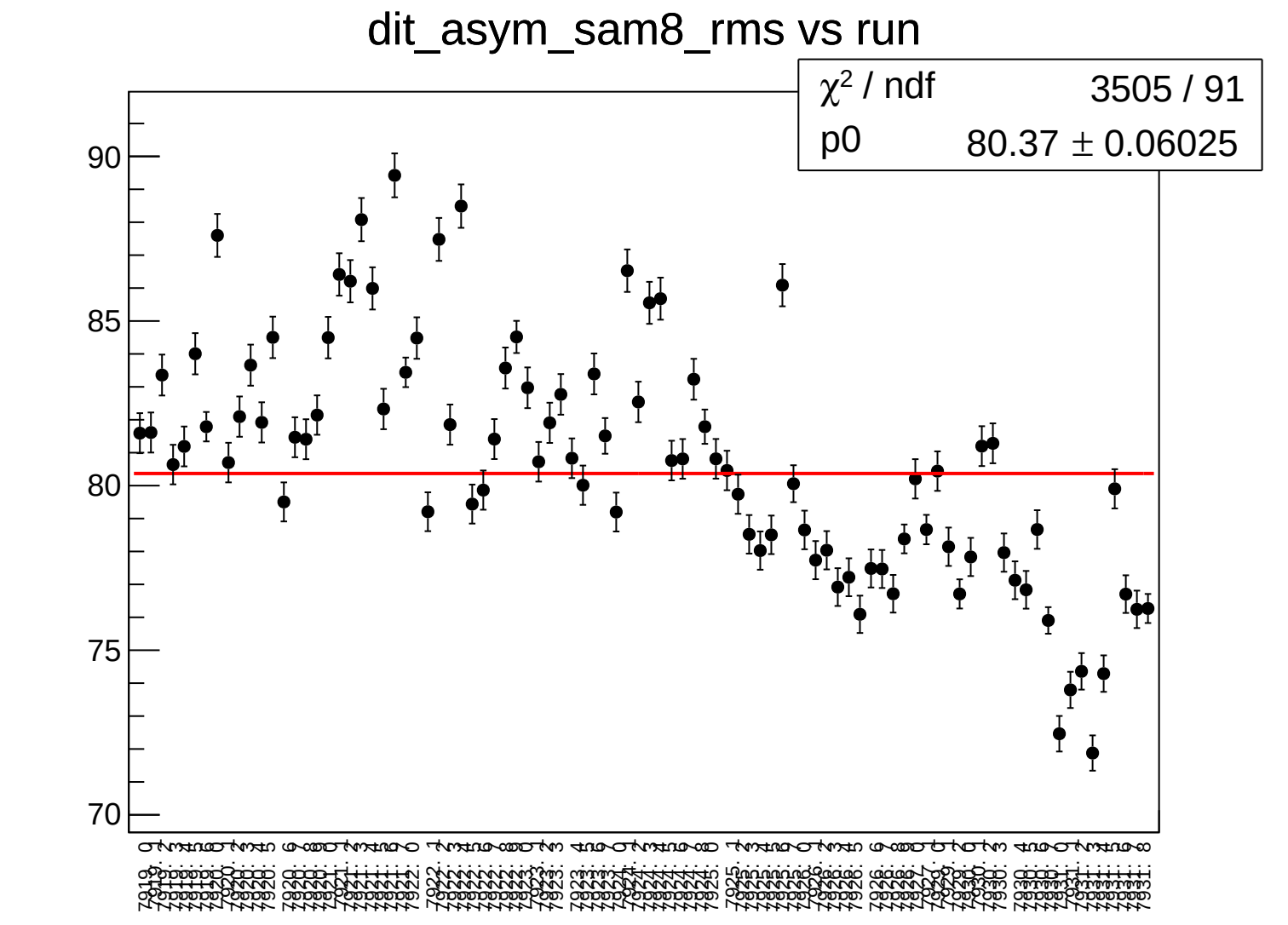

eigen_cor_asym_sam8_rms vs run
χ^2 / ndf 4254 / 91
p0 73.31 ± 0.05497
84
82
80
78
76
74
72
70
68
66
64

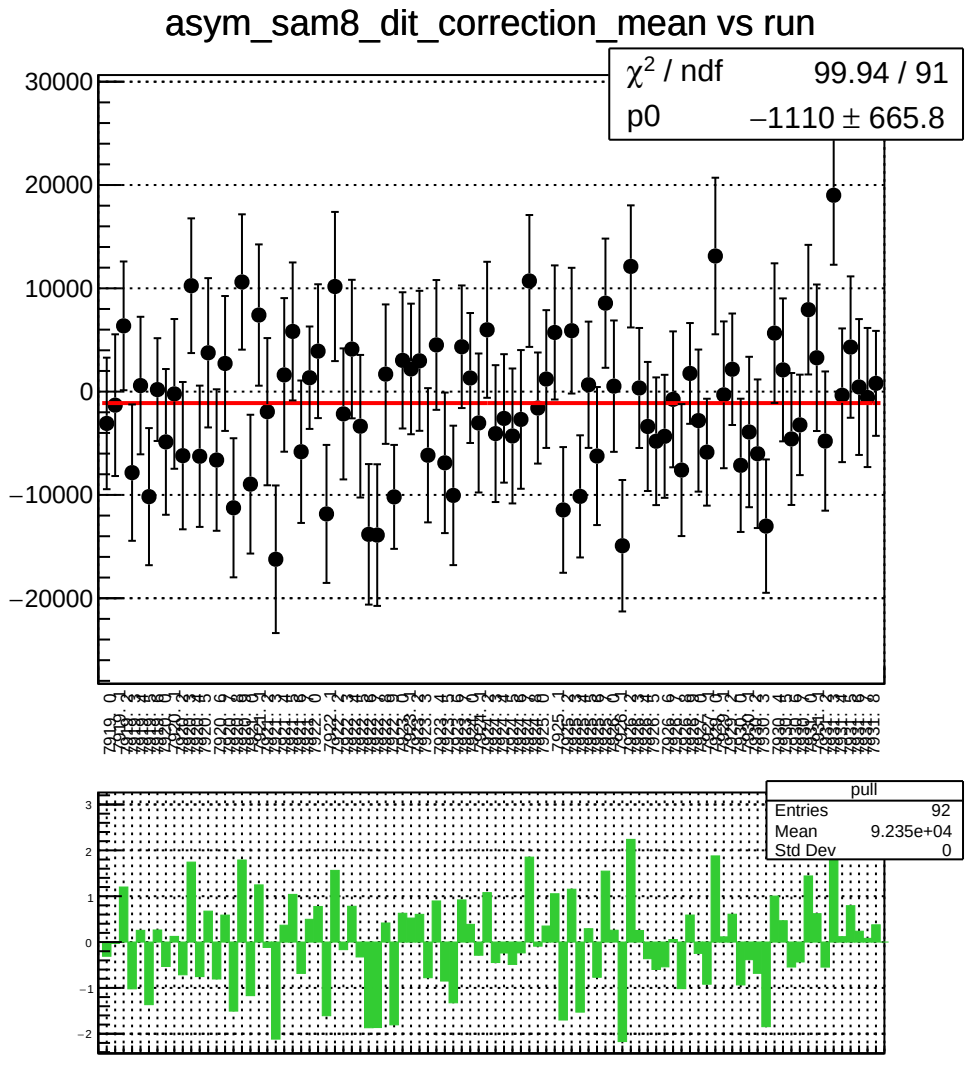

asym_sam8_eigen_cor_correction_mean vs run
χ² / ndf 99.08 / 91
p0 −1109 ± 657
pull
Entries 92
Mean 6075
Std Dev 0
pull1D
Entries 92
Mean 0.0004701
Std Dev 1.038

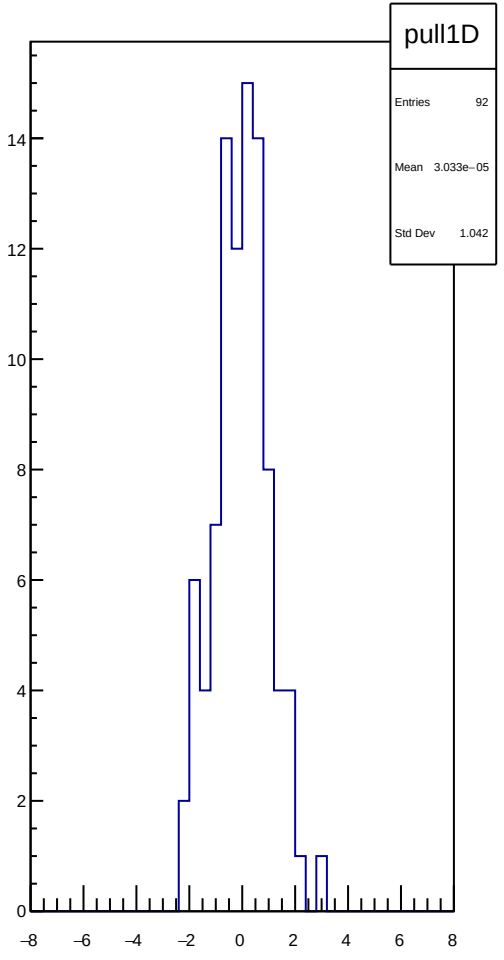

asym_sam8_eigen_cor_correction_rms vs run
χ² / ndf 4601 / 91
p0 619.5 ± 0.4646
720
700
680
660
640
620
600
580
560
540

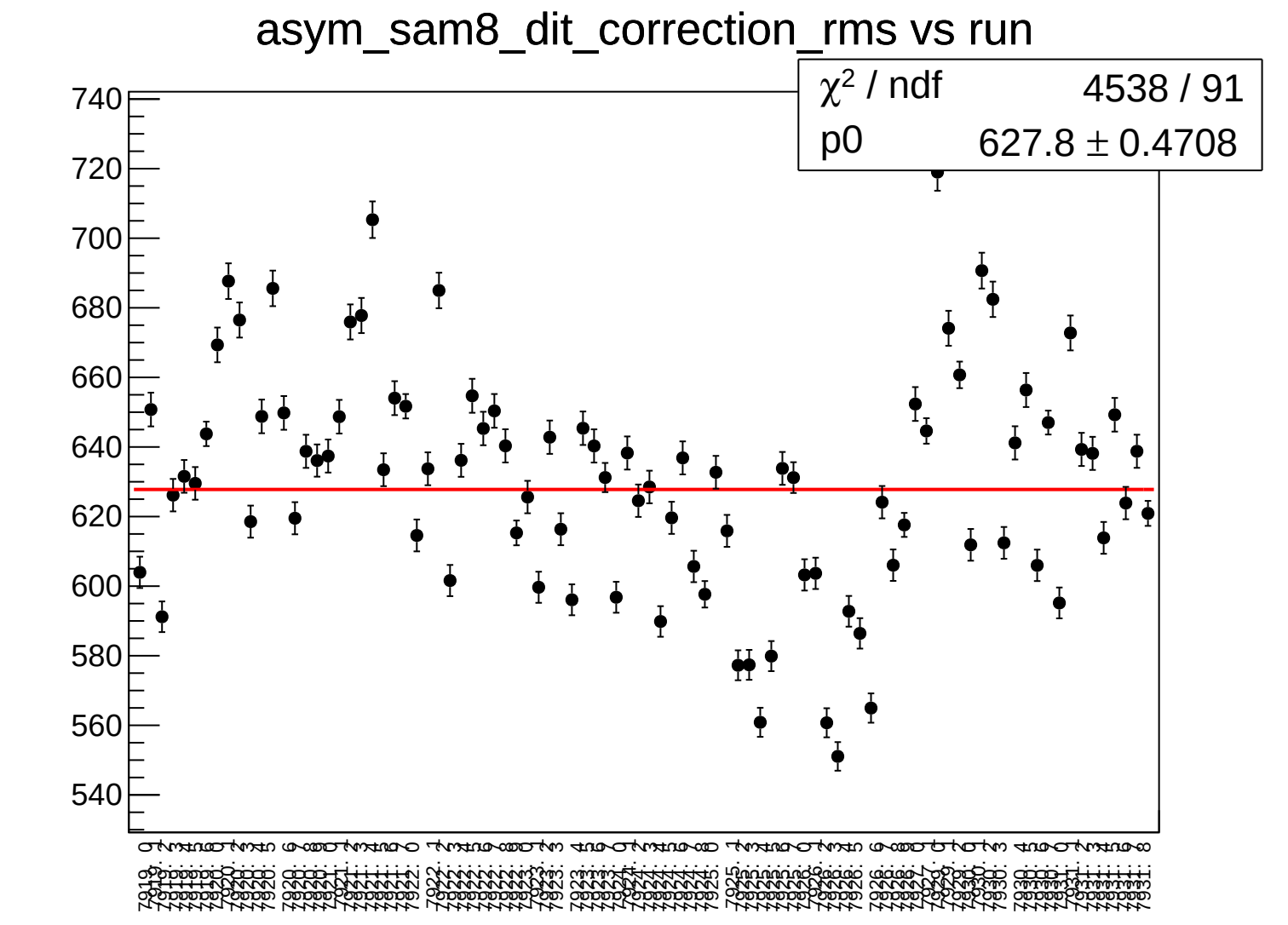

dit_asym_sam8_mean vs run
χ^2 / ndf 80.75 / 91
p0 −109.8 ± 85.21
pull
Entries 92
Mean −9.712
Std Dev 0

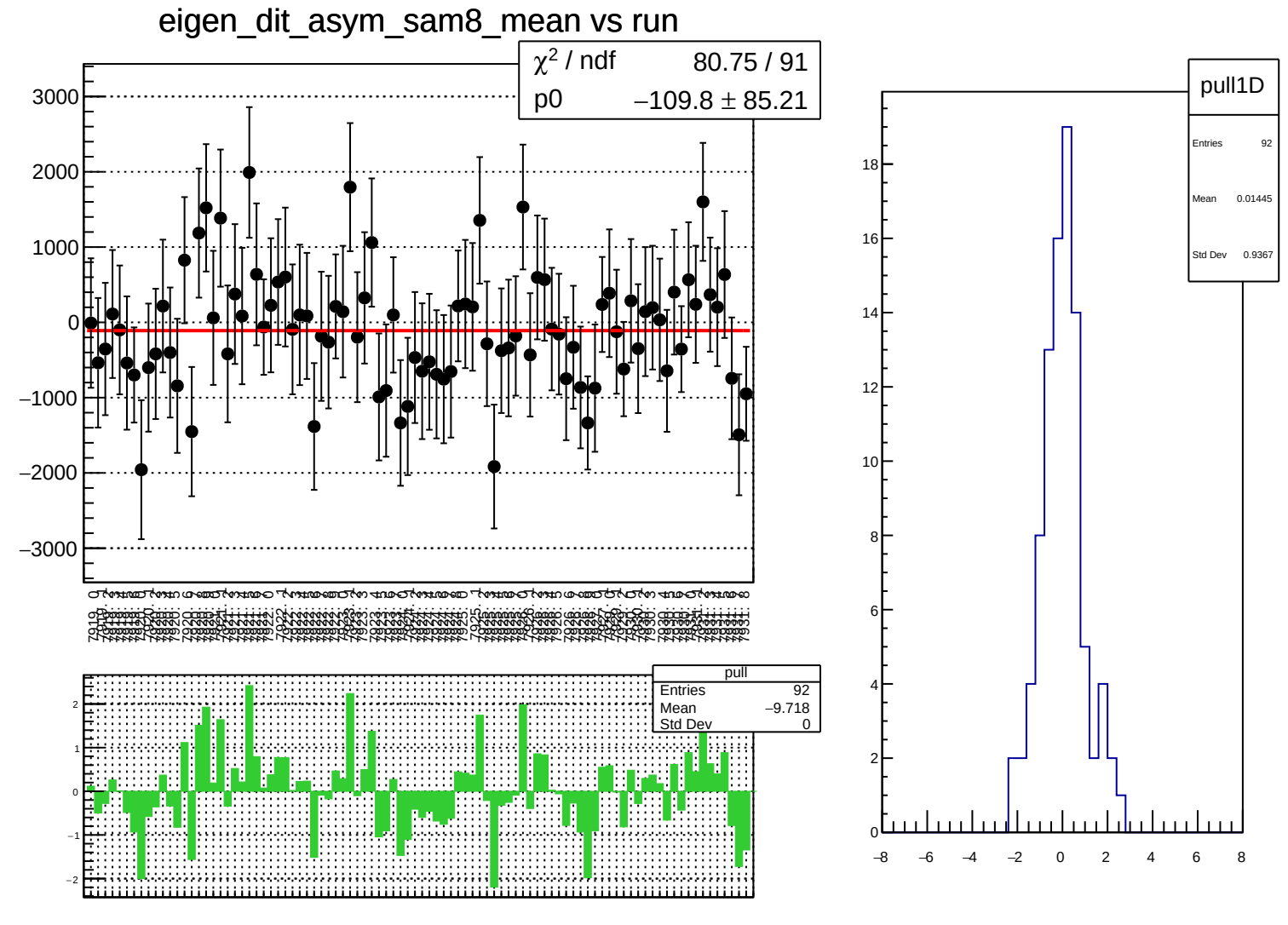

pull1D
Entries 92
Mean 0.01444
Std Dev 0.9367

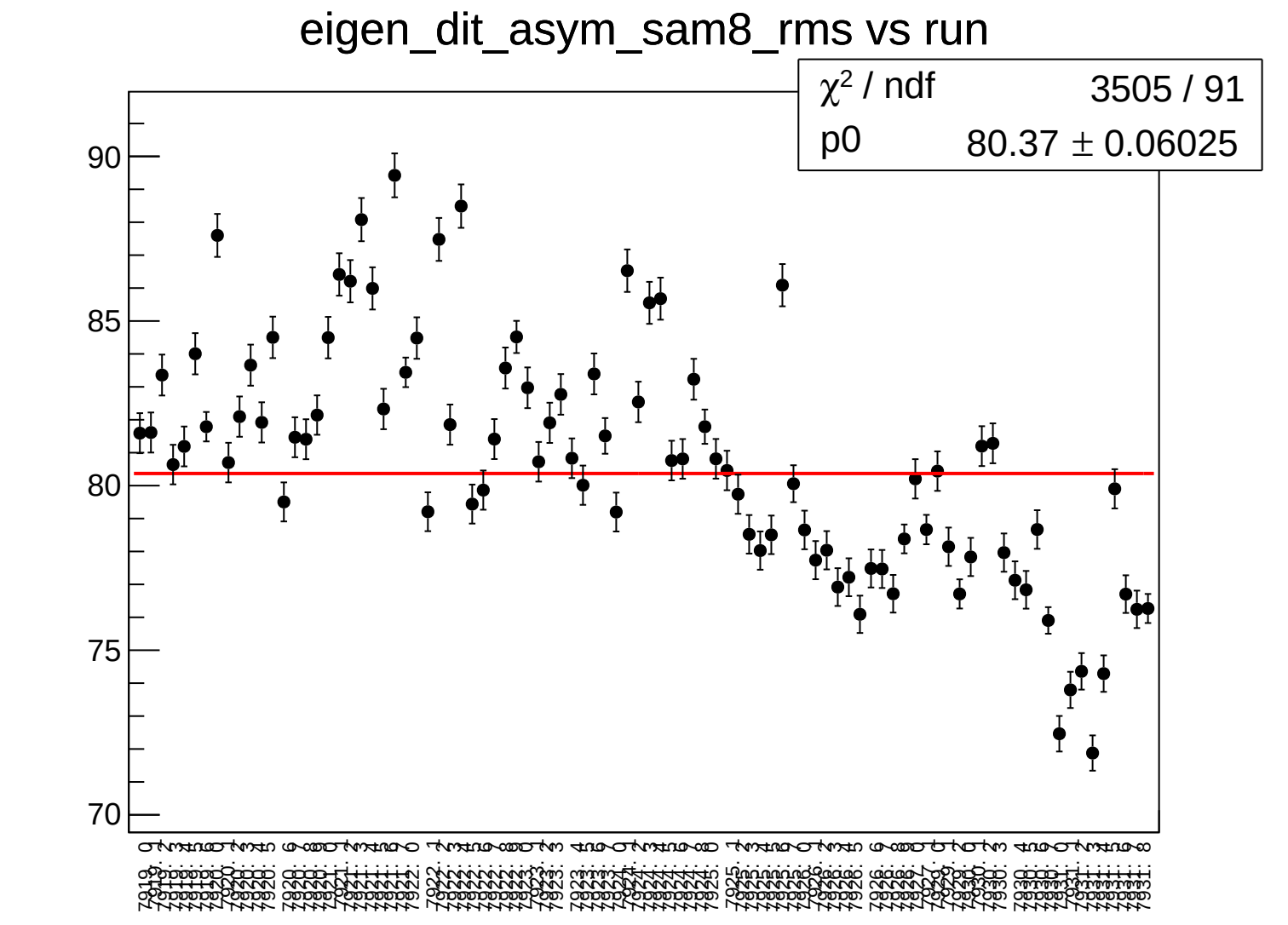

dit_asym_sam8_rms vs run
χ² / ndf 3505 / 91
p0 80.37 ± 0.06025
90
85
80
75
70

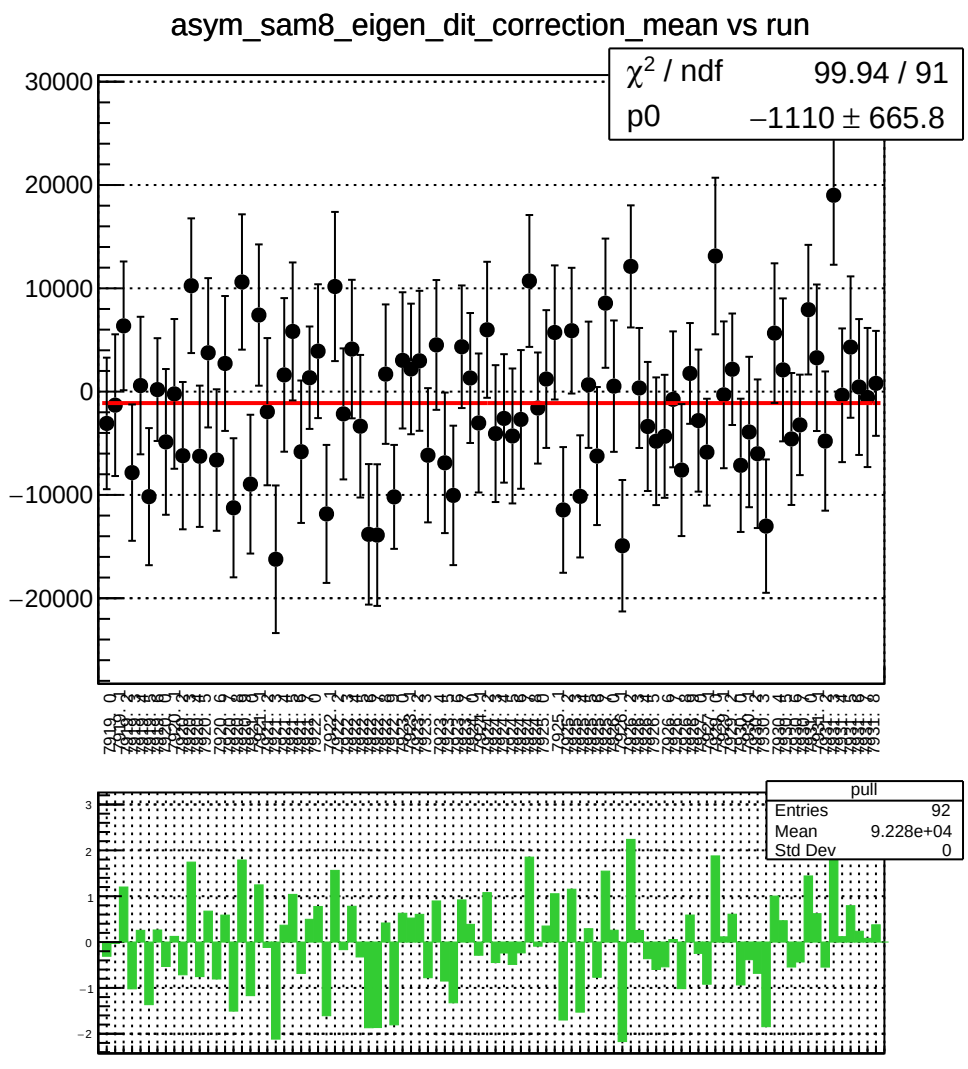

asym_sam8_dit_correction_mean vs run
χ² / ndf 99.94 / 91
p0 −1110 ± 665.8
30000
20000
10000
0
−10000
−20000
pull
Entries 92
Mean 9.235e+04
Std Dev 0
3
2
1
0
−1
−2

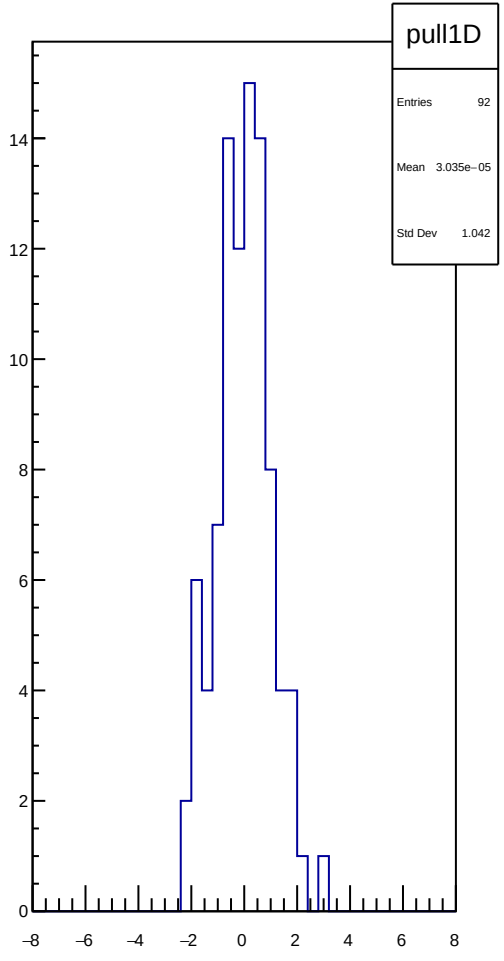

pull1D
Entries 92
Mean 3.033e−05
Std Dev 1.042
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

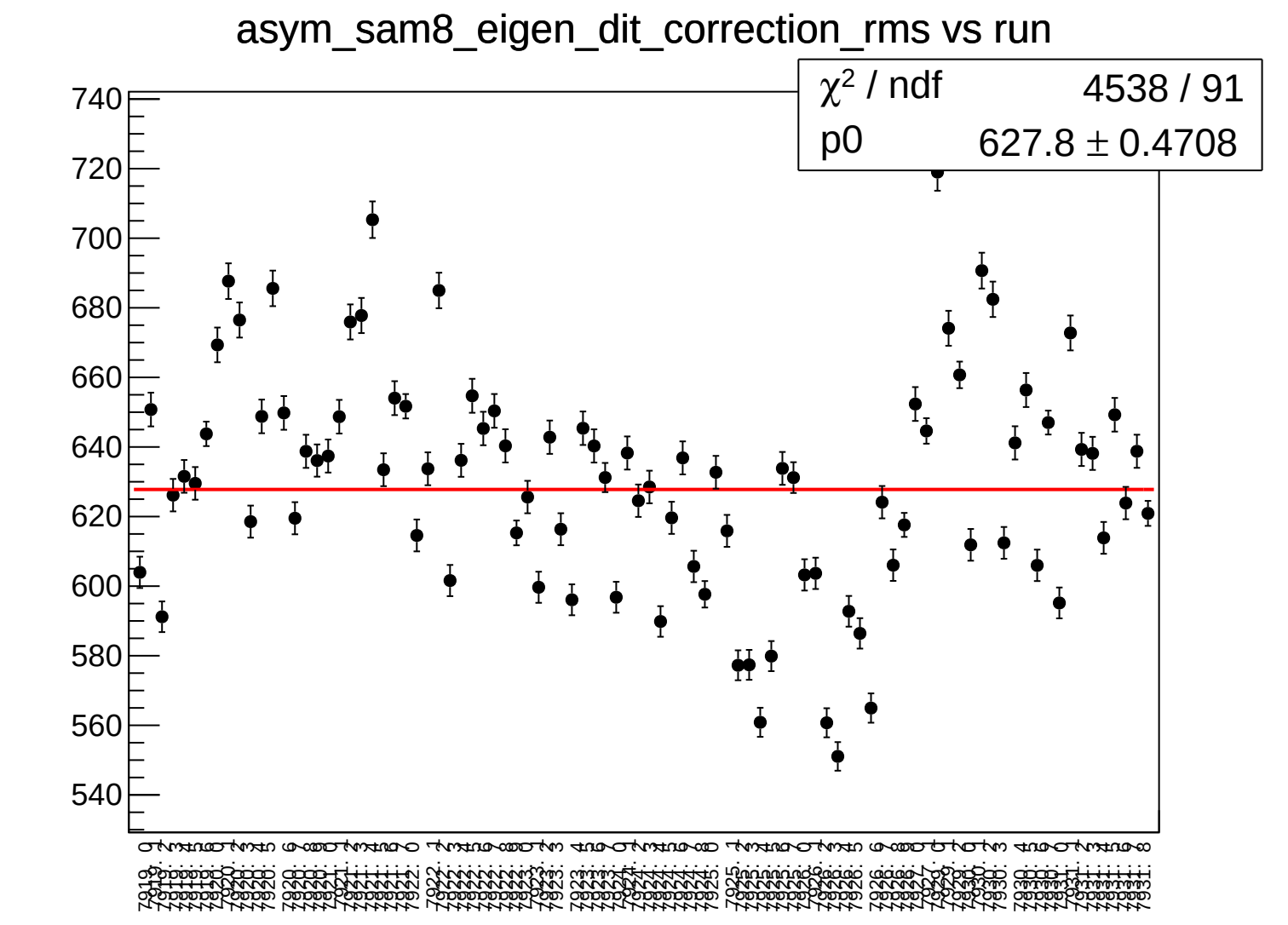

asym_sam8_dit_correction_rms vs run
χ^2 / ndf 4538 / 91
p0 627.8 ± 0.4708
740
720
700
680
660
640
620
600
580
560
540

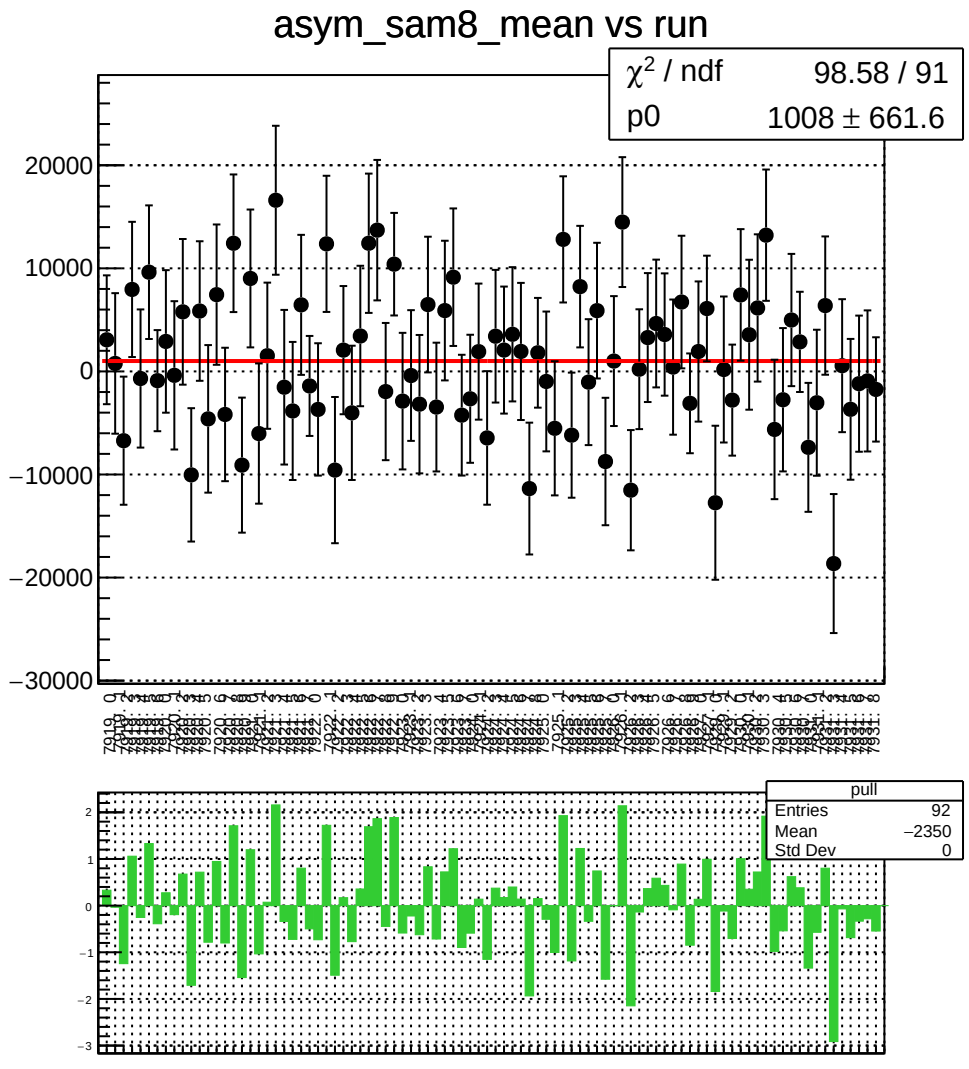

eigen_dit_asym_sam8_mean vs run
χ² / ndf 80.75 / 91
p0 −109.8 ± 85.21
pull
Entries 92
Mean −9.718
Std Dev 0
pull1D
Entries 92
Mean 0.01445
Std Dev 0.9367

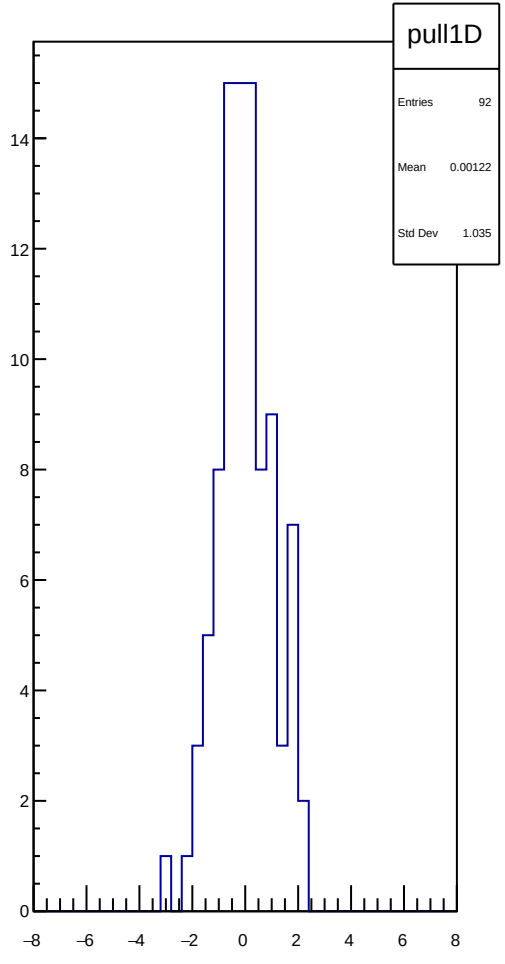

eigen_dit_asym_sam8_rms vs run
χ² / ndf 3505 / 91
p0 80.37 ± 0.06025
90
85
80
75
70

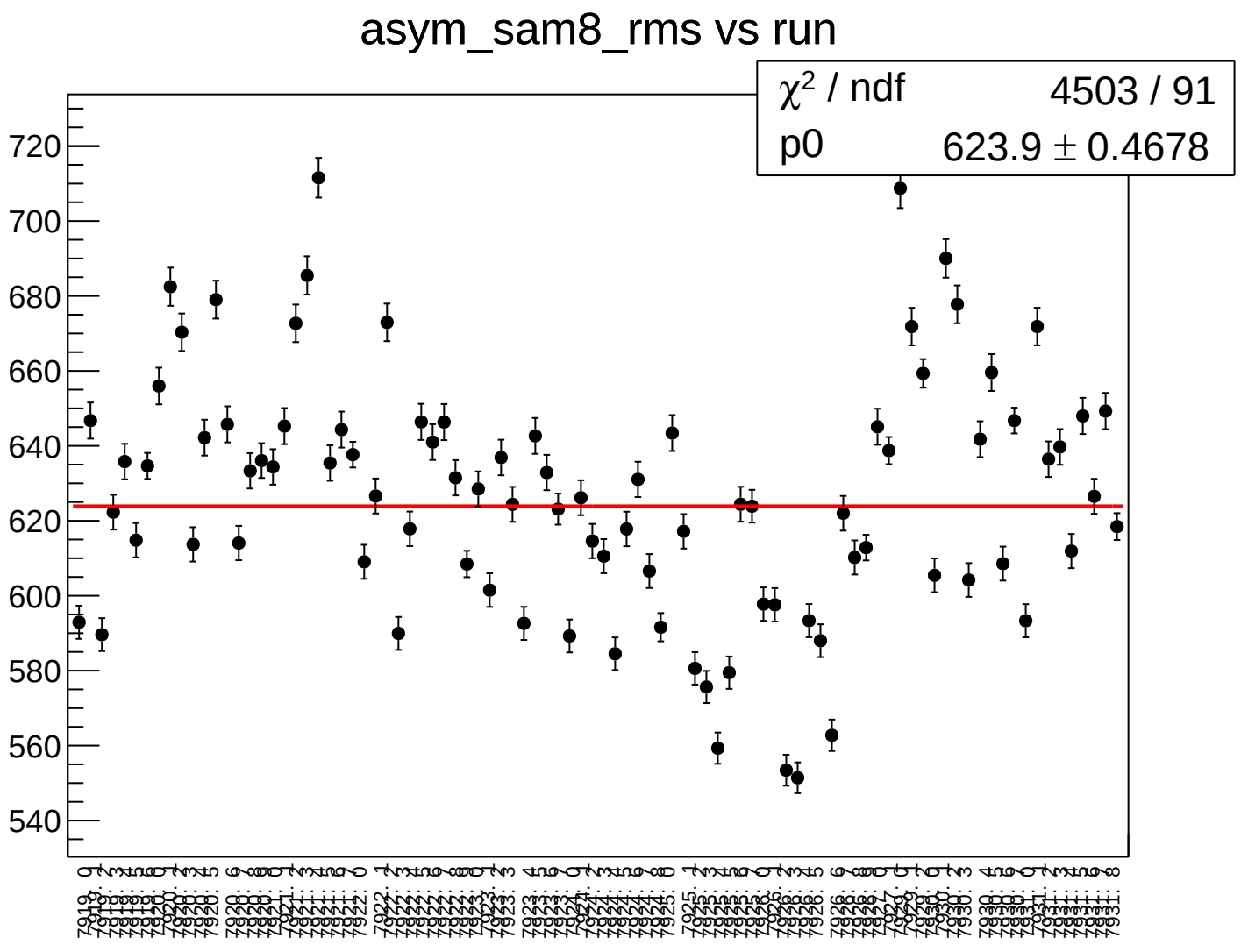

asym_sam8_eigen_dit_correction_mean vs run
χ² / ndf 99.94 / 91
p0 −1110 ± 665.8
30000
20000
10000
0
−10000
−20000
pull
Entries 92
Mean 9.228e+04
Std Dev 0
3
2
1
0
−1
−2

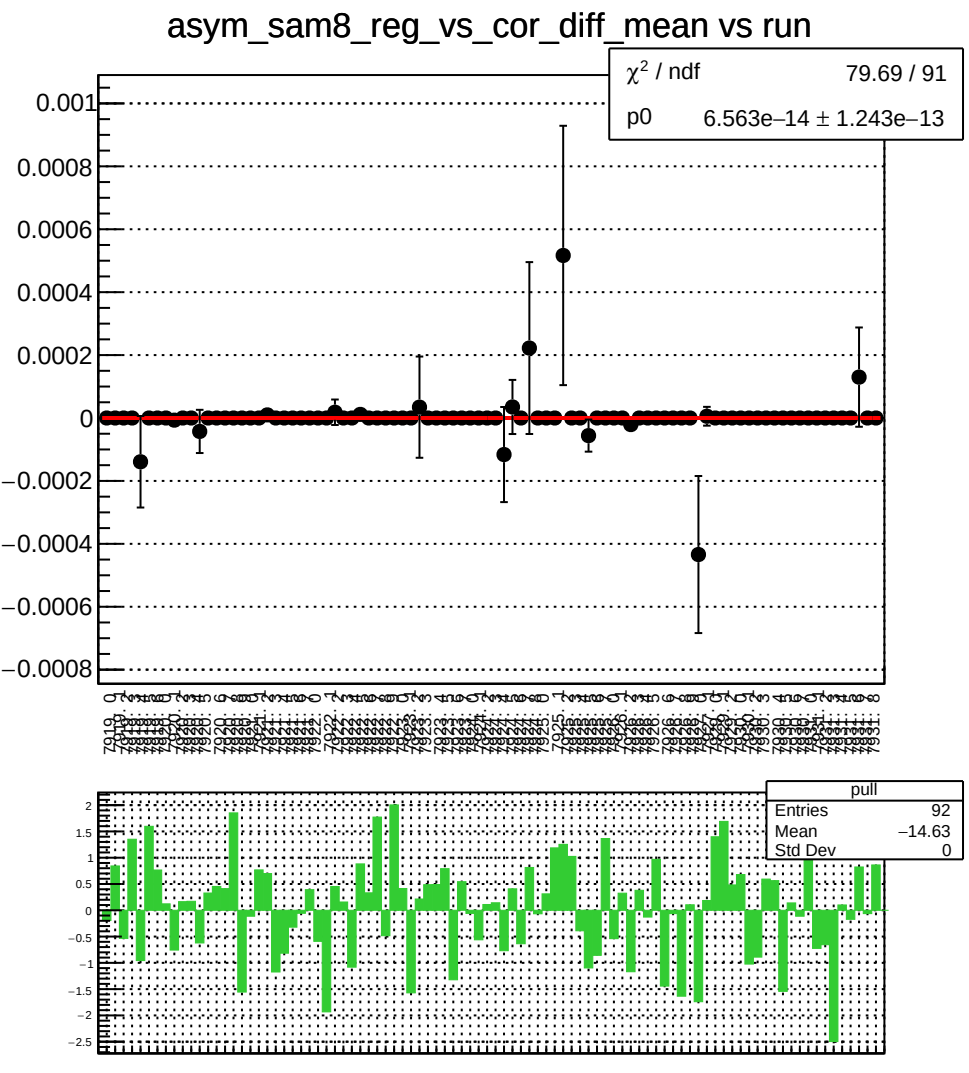

pull1D
Entries 92
Mean 3.035e−05
Std Dev 1.042
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

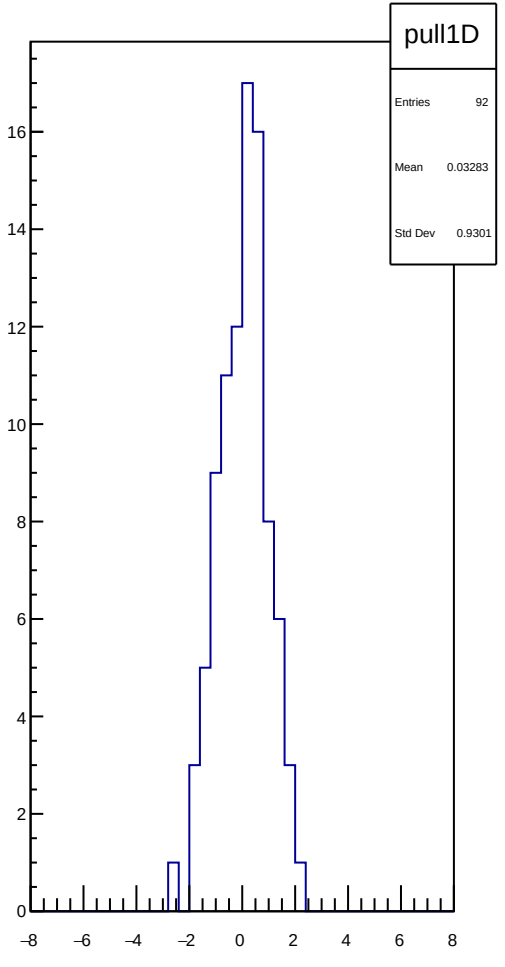

asym_sam8_eigen_dit_correction_rms vs run
χ^2 / ndf 4538 / 91
p0 627.8 ± 0.4708
740
720
700
680
660
640
620
600
580
560
540

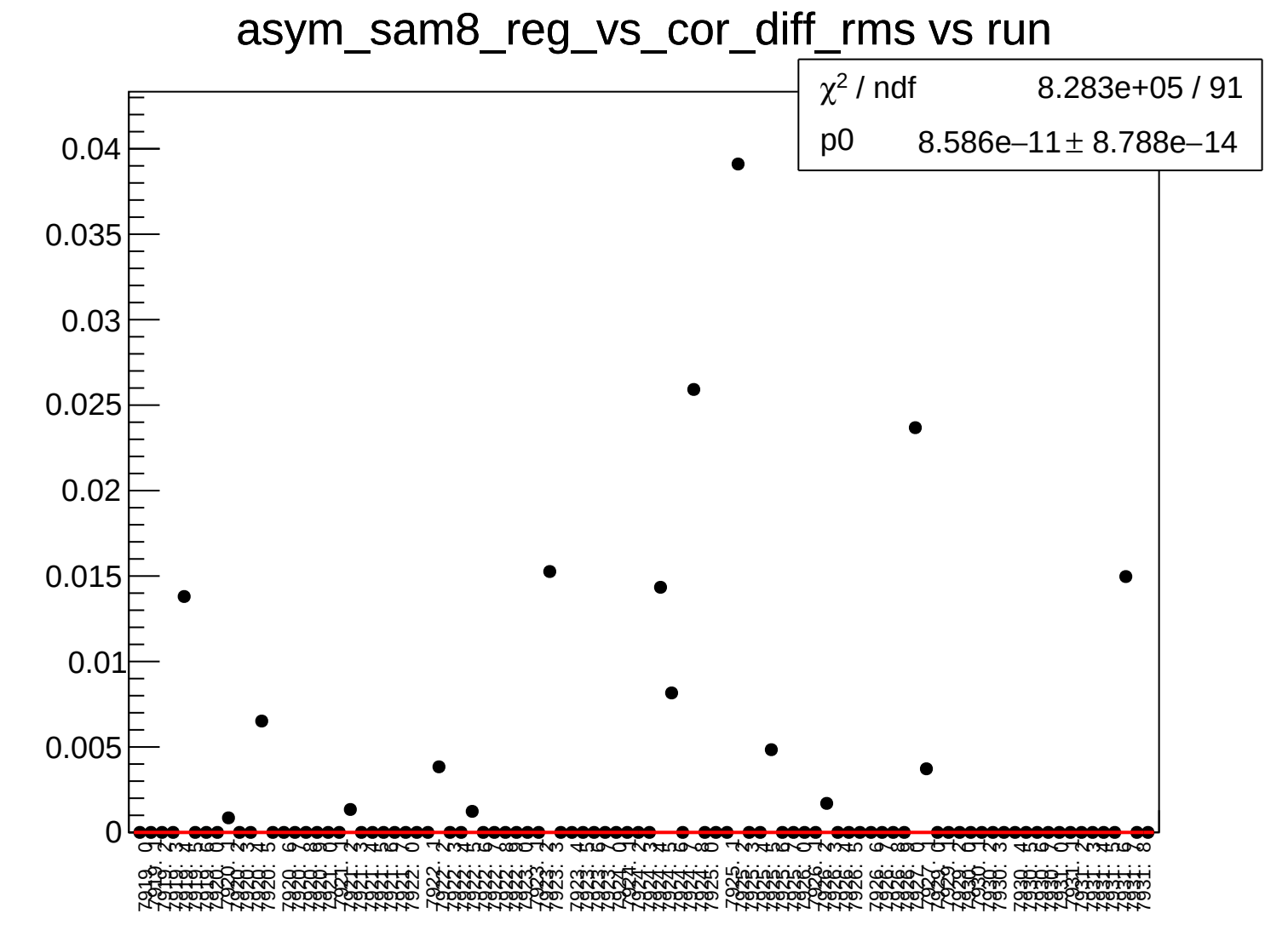

asym_sam8_mean vs run
χ² / ndf 98.58 / 91
p0 1008 ± 661.6
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −2350
Std Dev 0
2
1
0
−1
−2
−3

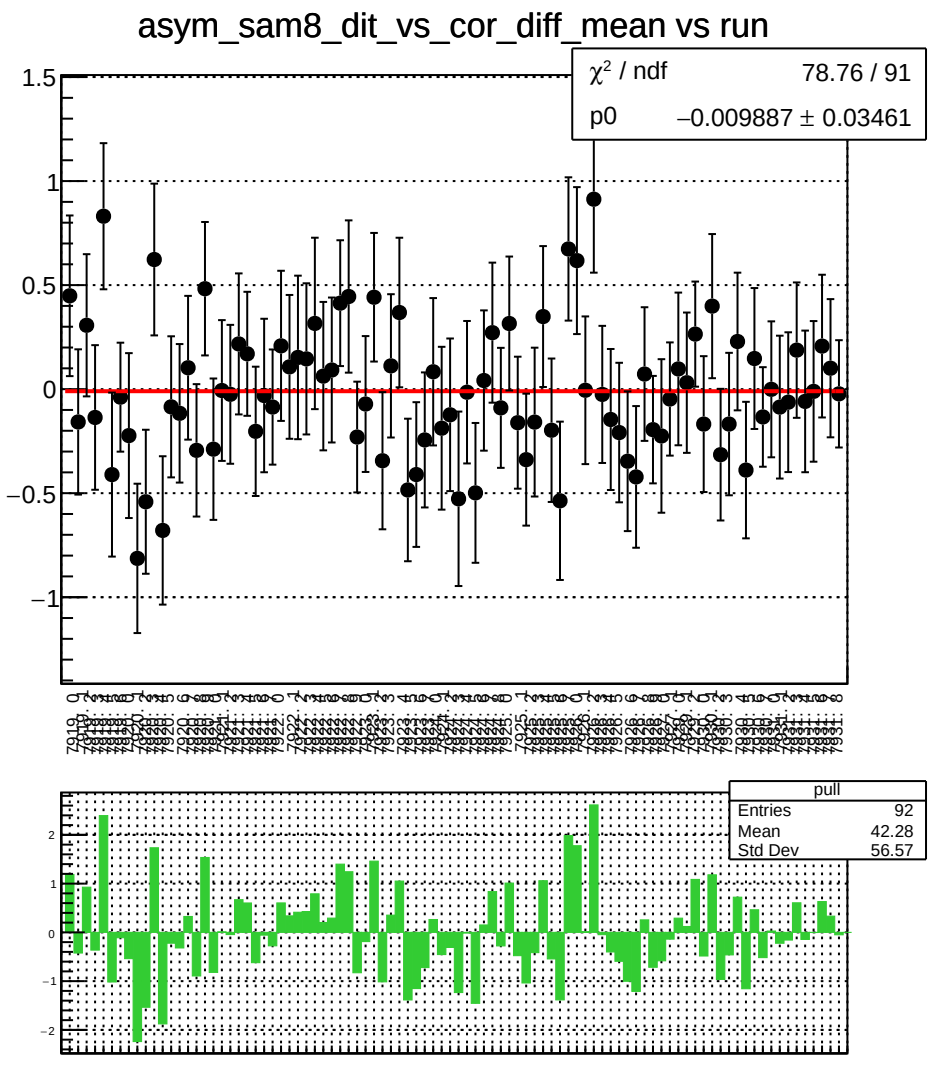

pull1D
Entries 92
Mean 0.00122
Std Dev 1.035
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

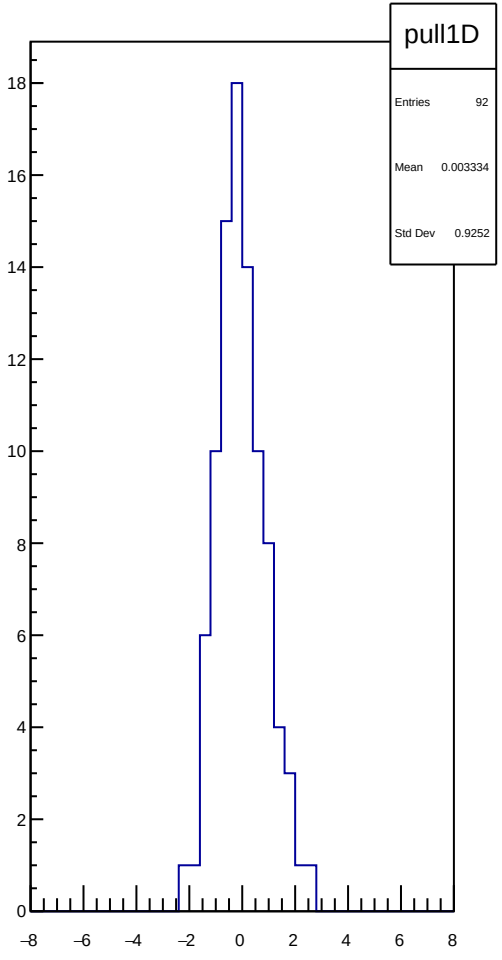

asym_sam8_rms vs run
χ² / ndf 4503 / 91
p0 623.9 ± 0.4678
720
700
680
660
640
620
600
580
560
540

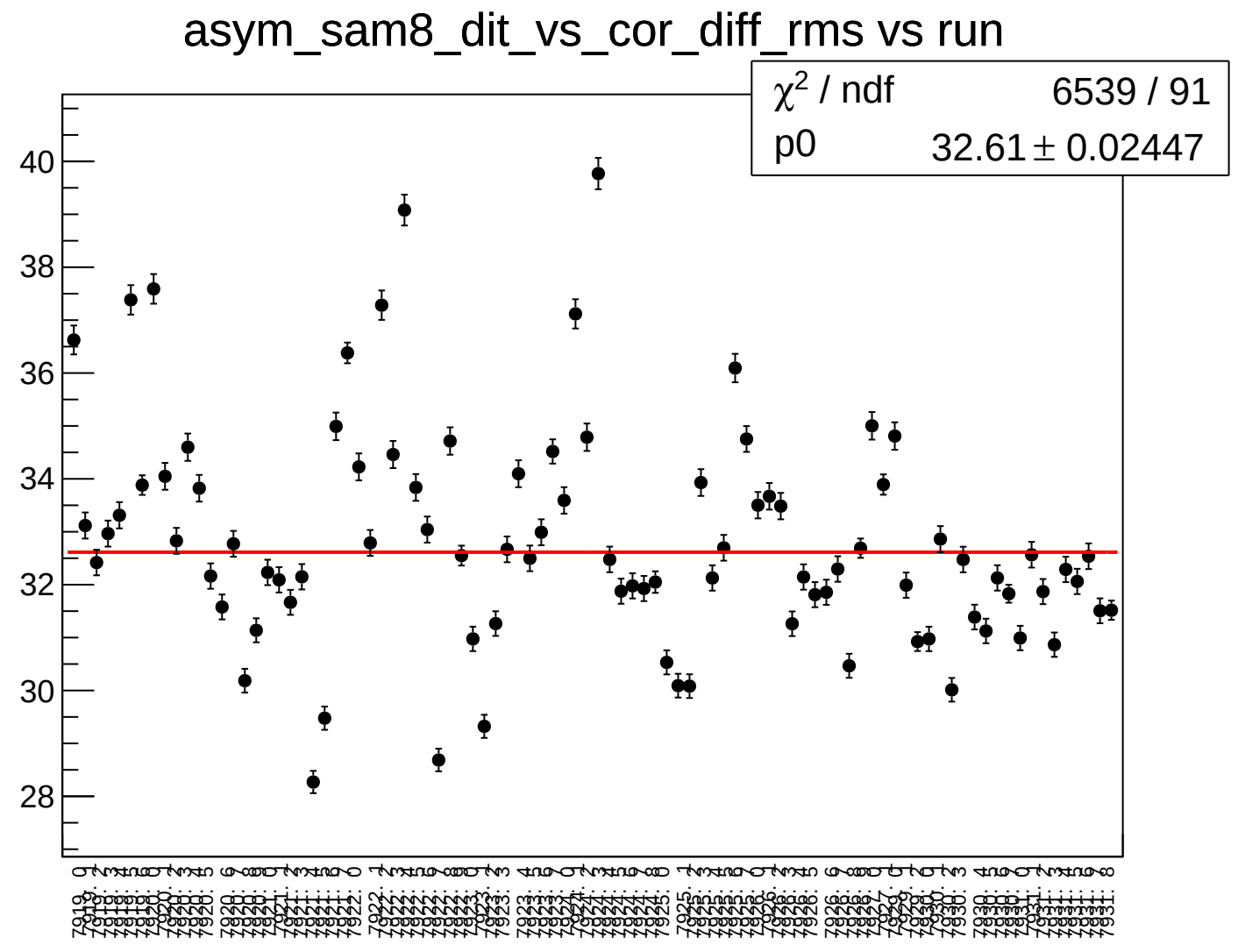

asym_sam8_reg_vs_cor_diff_mean vs run
χ² / ndf 79.69 / 91
p0 6.563e−14 ± 1.243e−13
pull
Entries 92
Mean −14.63
Std Dev 0

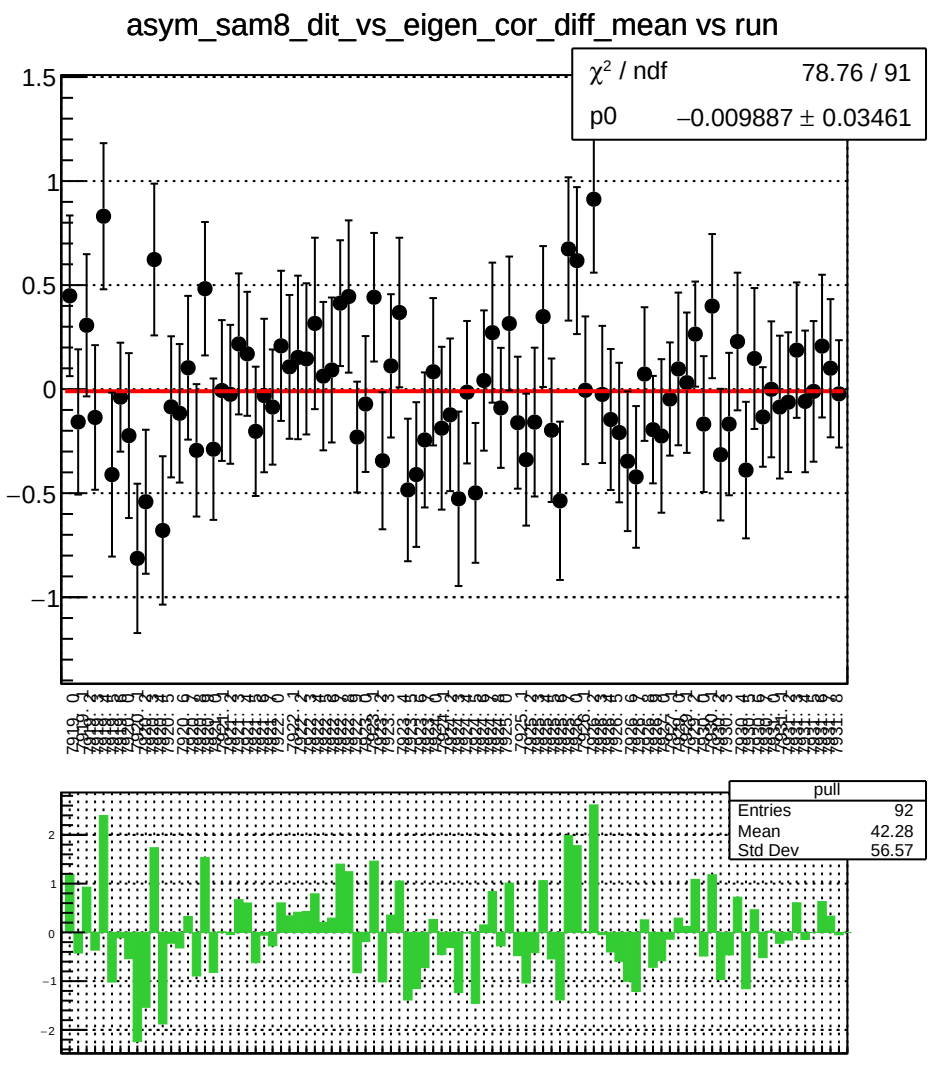

pull1D
Entries 92
Mean 0.03283
Std Dev 0.9301

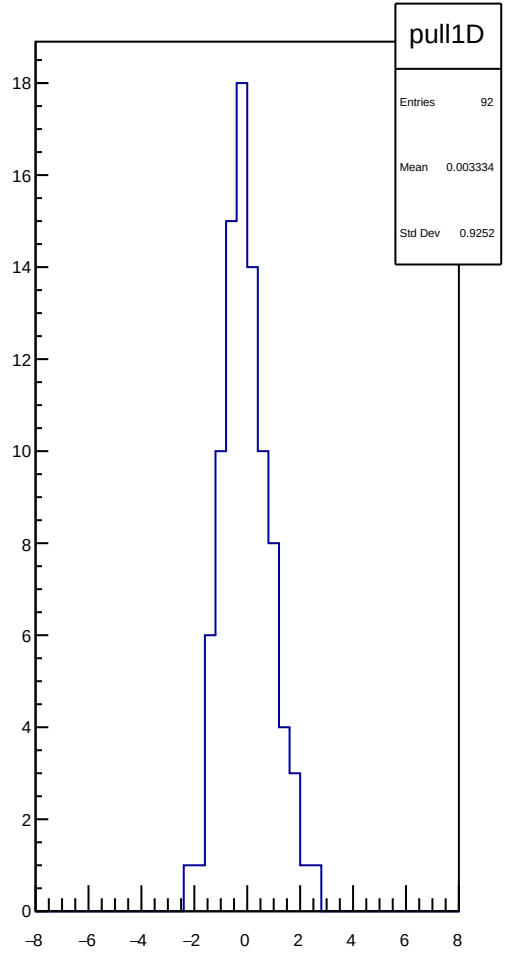

asym_sam8_reg_vs_cor_diff_rms vs run
χ² / ndf 8.283e+05 / 91
p0 8.586e−11 ± 8.788e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

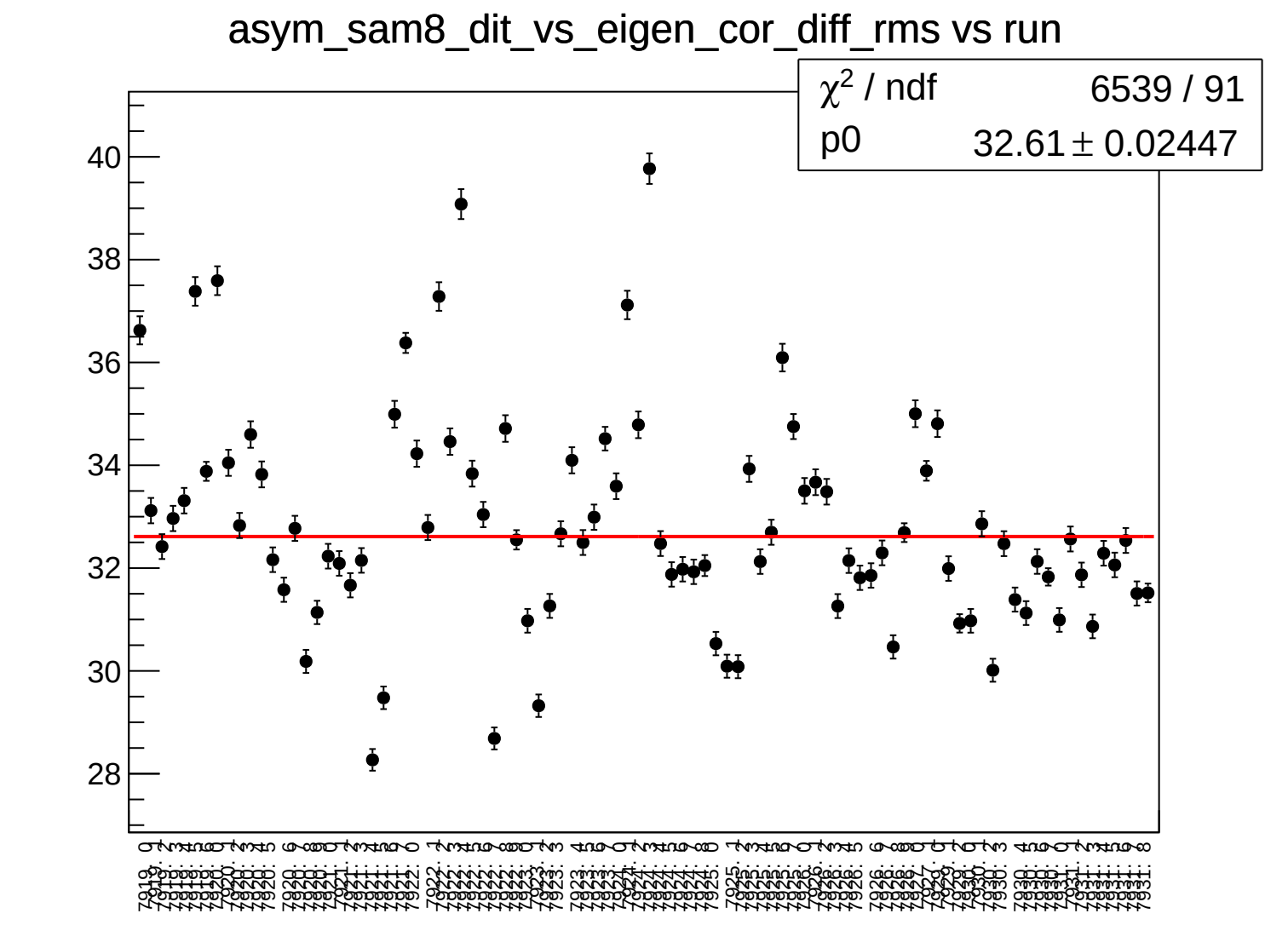

asym_sam8_dit_vs_cor_diff_mean vs run
χ² / ndf 78.76 / 91
p0 −0.009887 ± 0.03461
pull
Entries 92
Mean 42.28
Std Dev 56.57

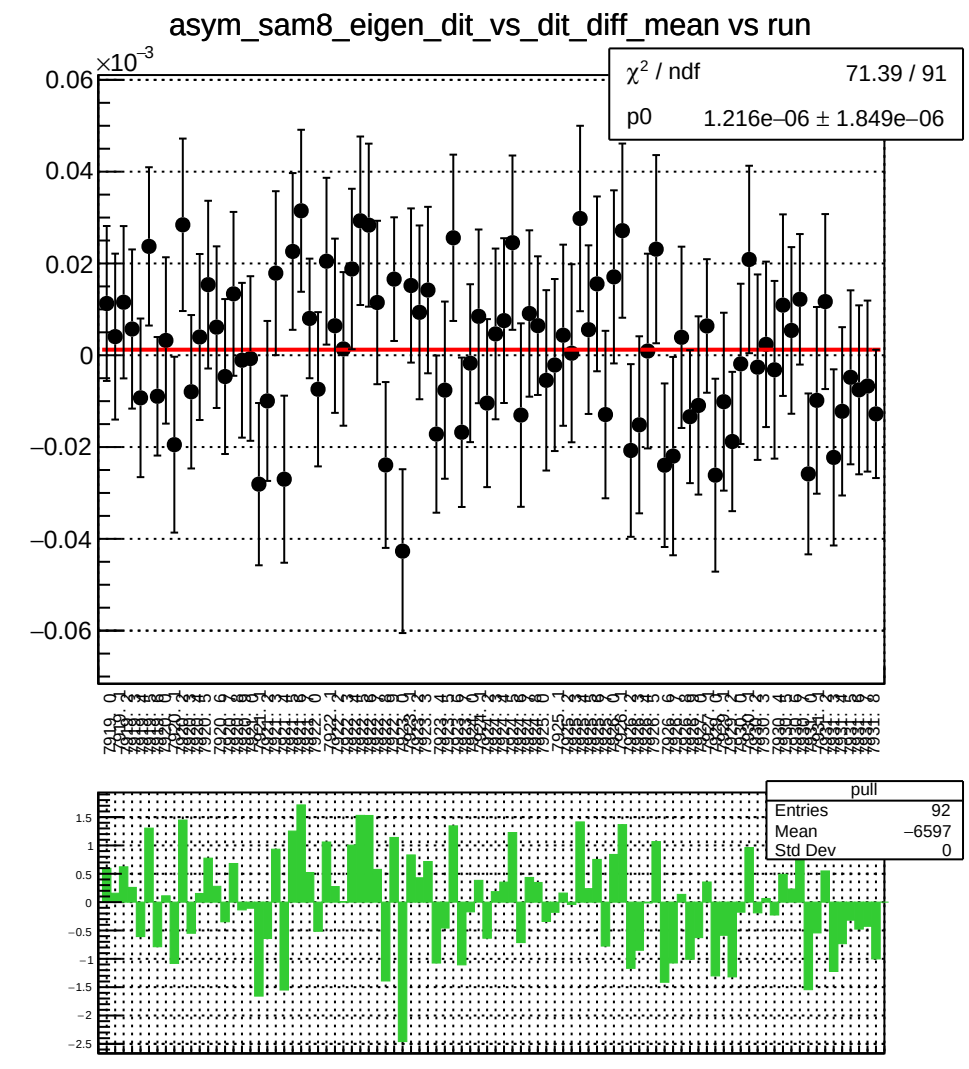

pull1D
Entries 92
Mean 0.003334
Std Dev 0.9252

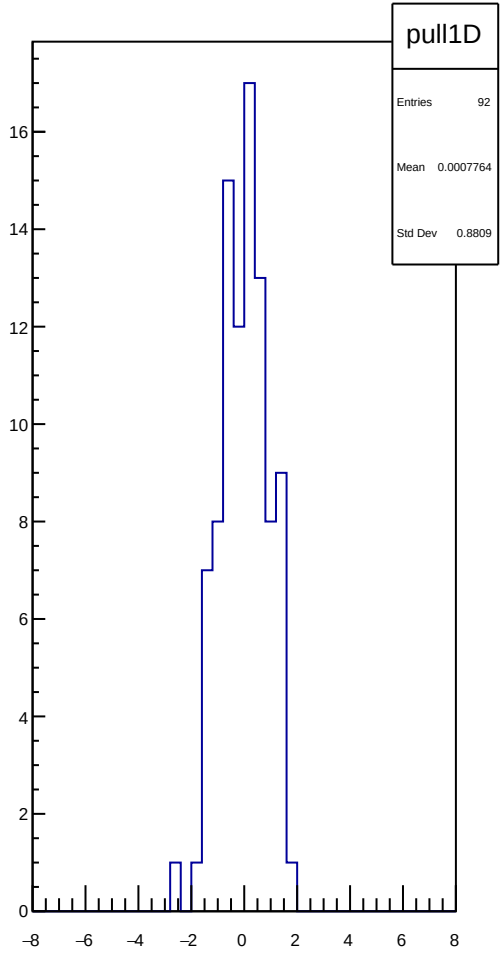

asym_sam8_dit_vs_cor_diff_rms vs run
χ^2 / ndf 6539 / 91
p0 32.61 ± 0.02447
40
38
36
34
32
30
28

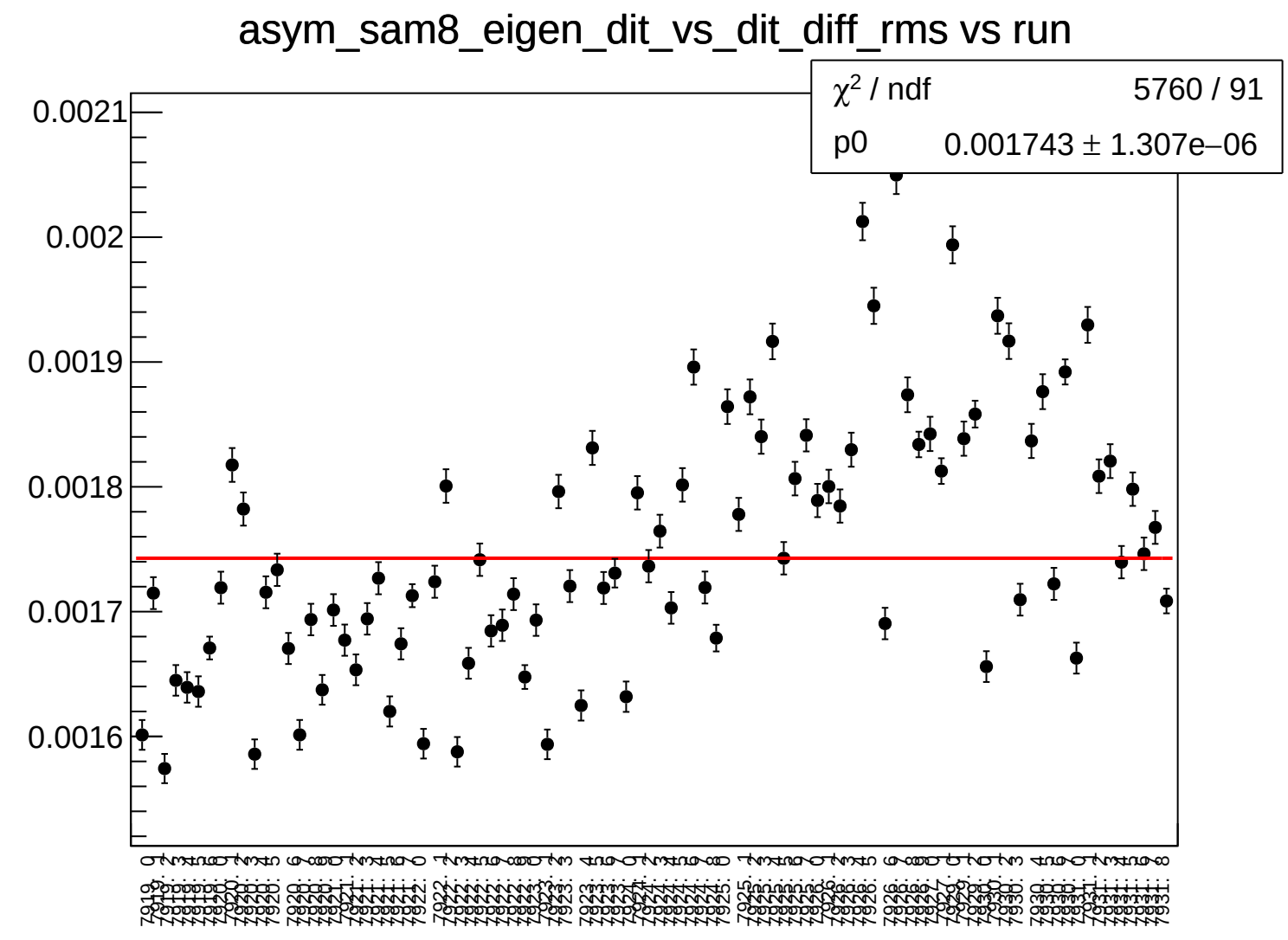

asym_sam8_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.76 / 91
p0 −0.009887 ± 0.03461
pull
Entries 92
Mean 42.28
Std Dev 56.57

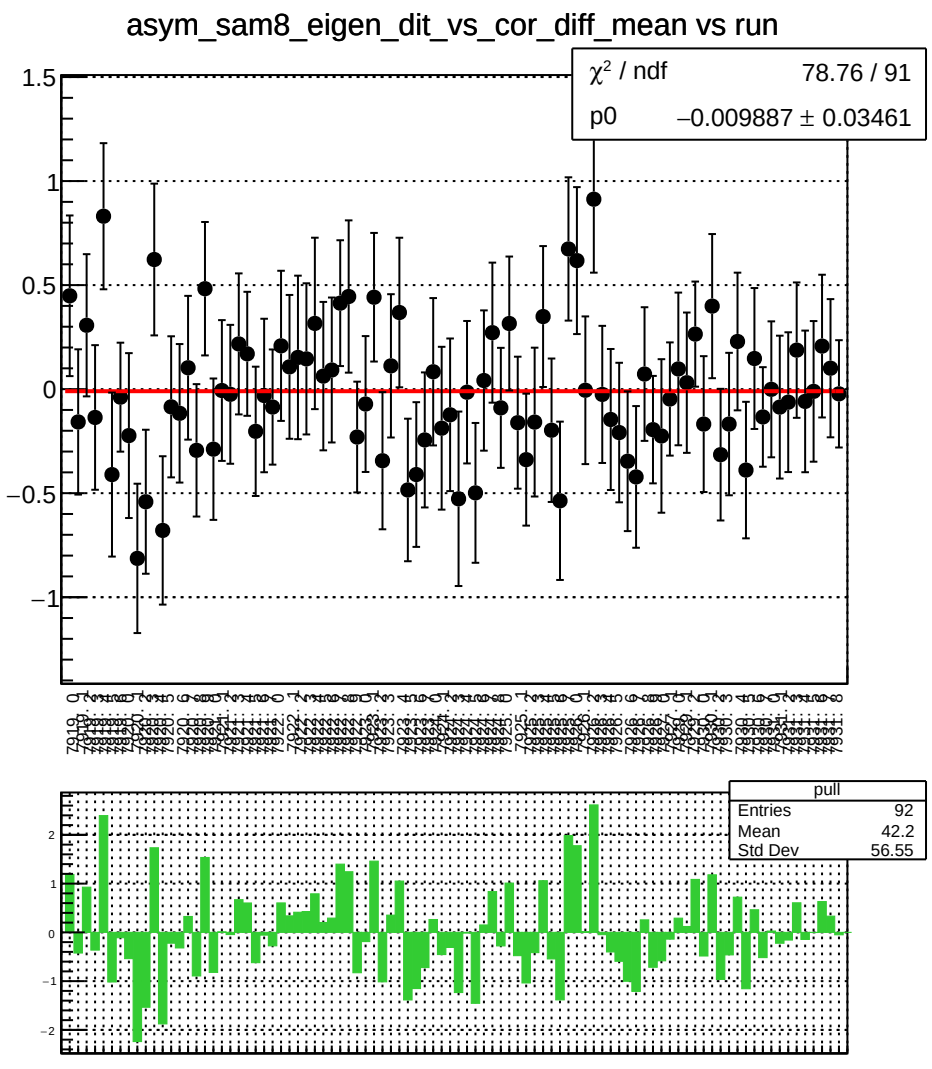

pull1D
Entries 92
Mean 0.003334
Std Dev 0.9252

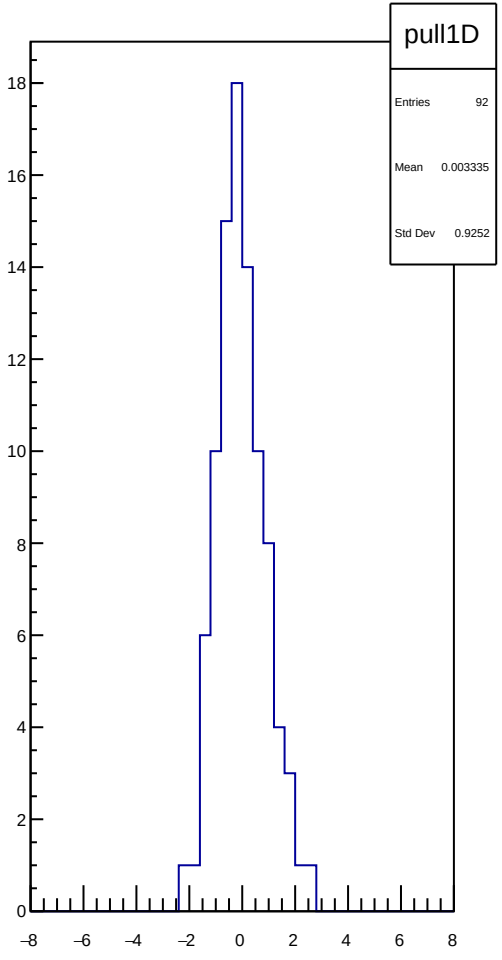

asym_sam8_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 6539 / 91
p0 32.61 ± 0.02447
40
38
36
34
32
30
28

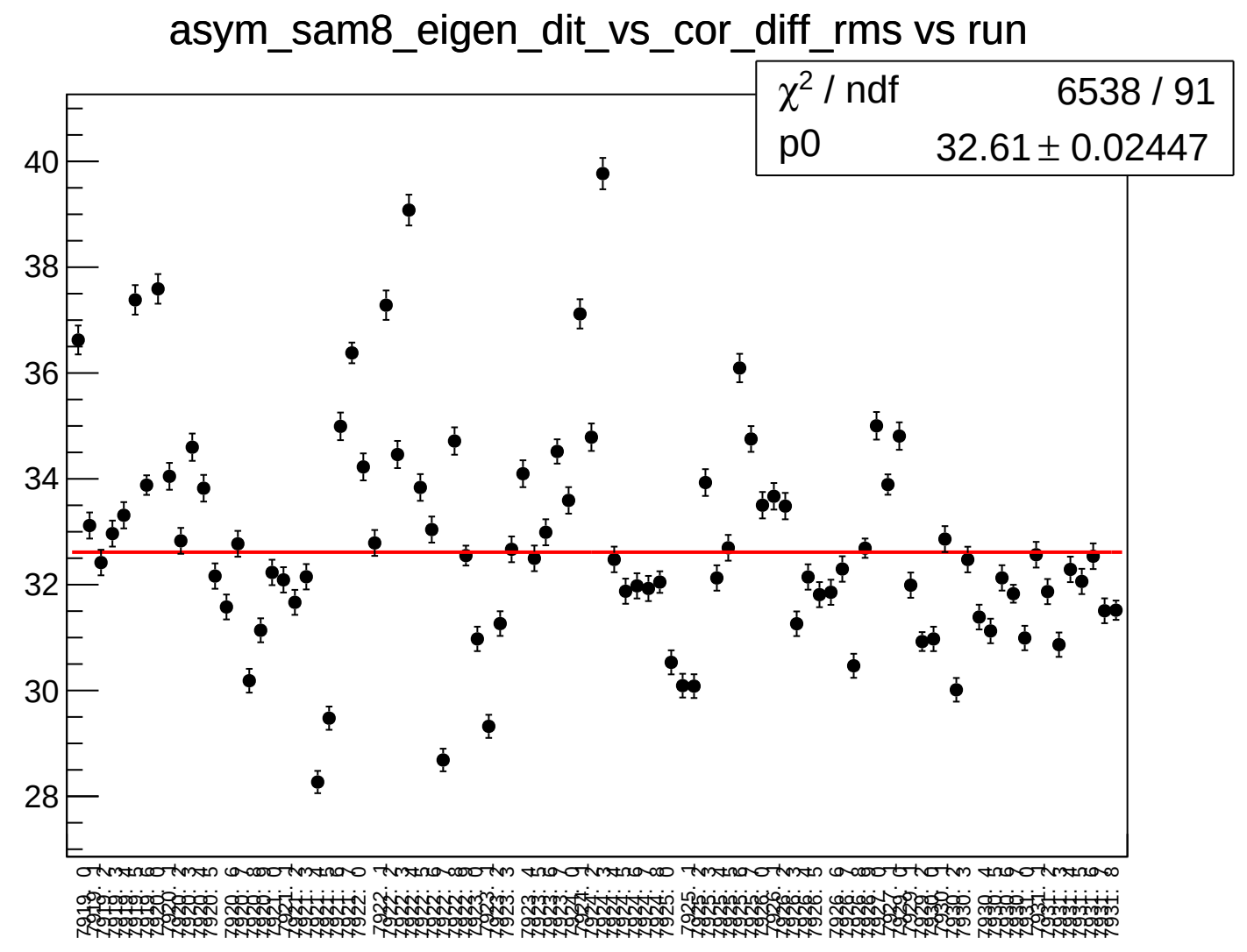

asym_sam8_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 71.39 / 91
p0 1.216e−06 ± 1.849e−06
pull
Entries 92
Mean −6597
Std Dev 0

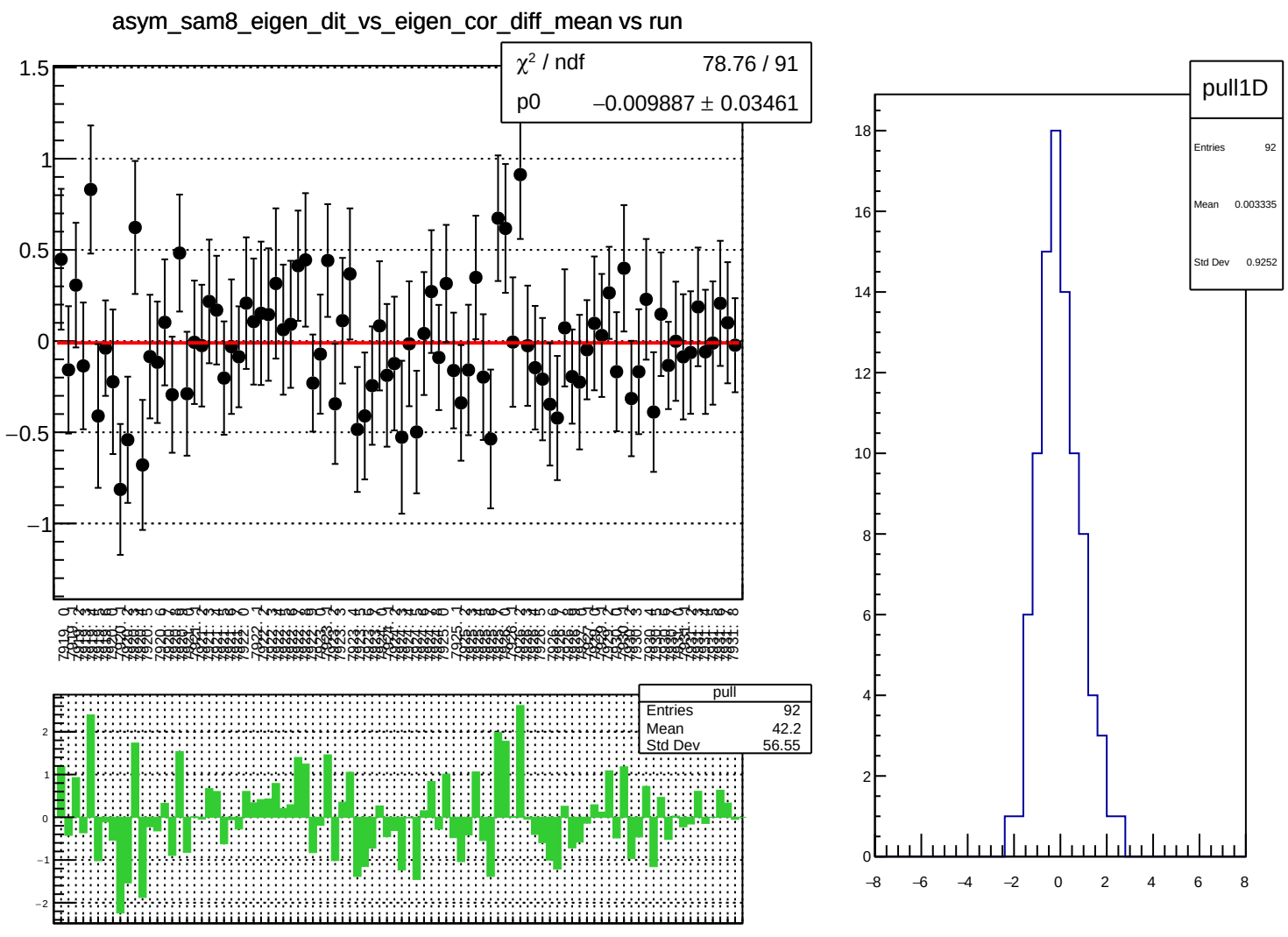

pull1D
Entries 92
Mean 0.0007764
Std Dev 0.8809

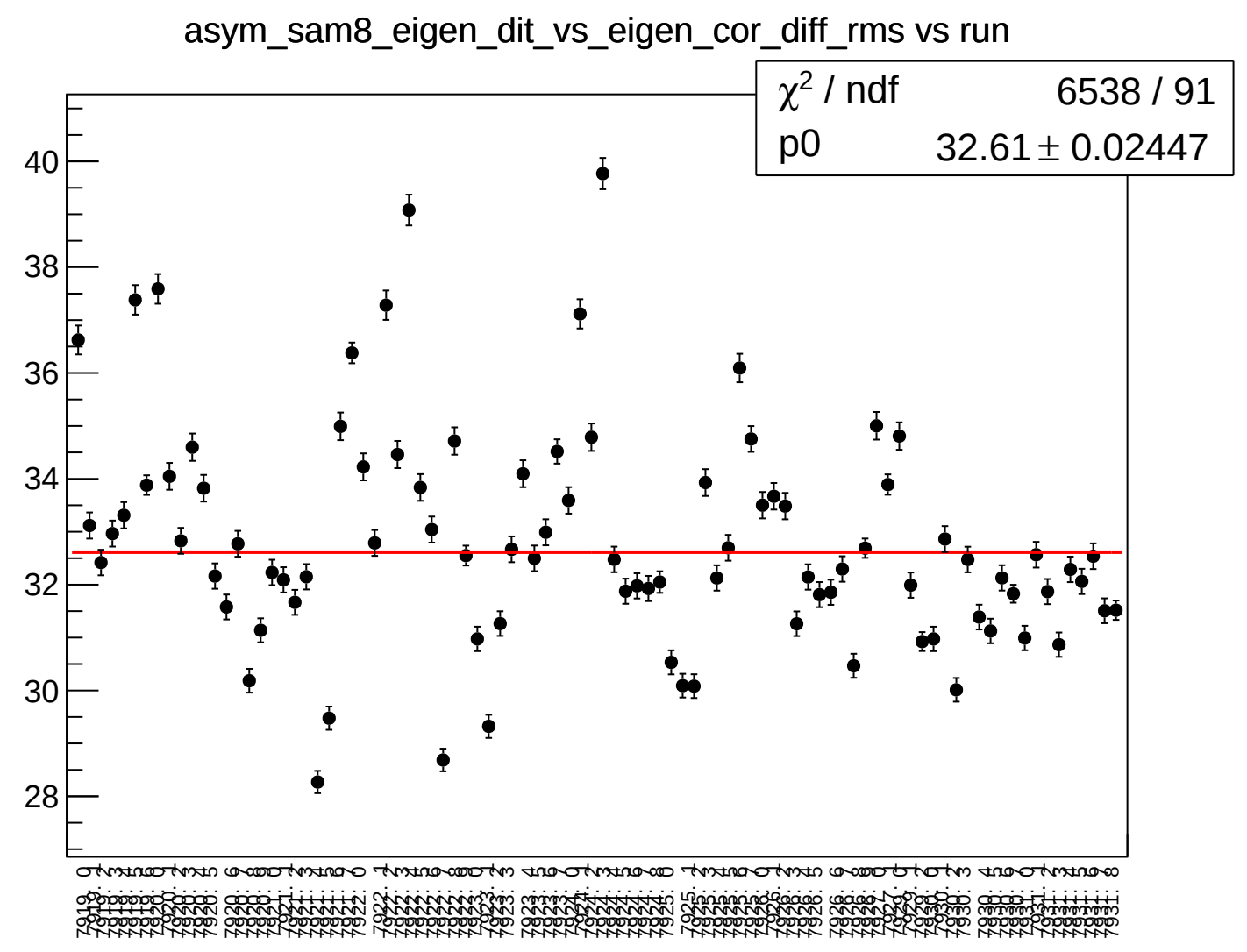

asym_sam8_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5760 / 91
p0 0.001743 ± 1.307e−06
0.0021
0.002
0.0019
0.0018
0.0017
0.0016

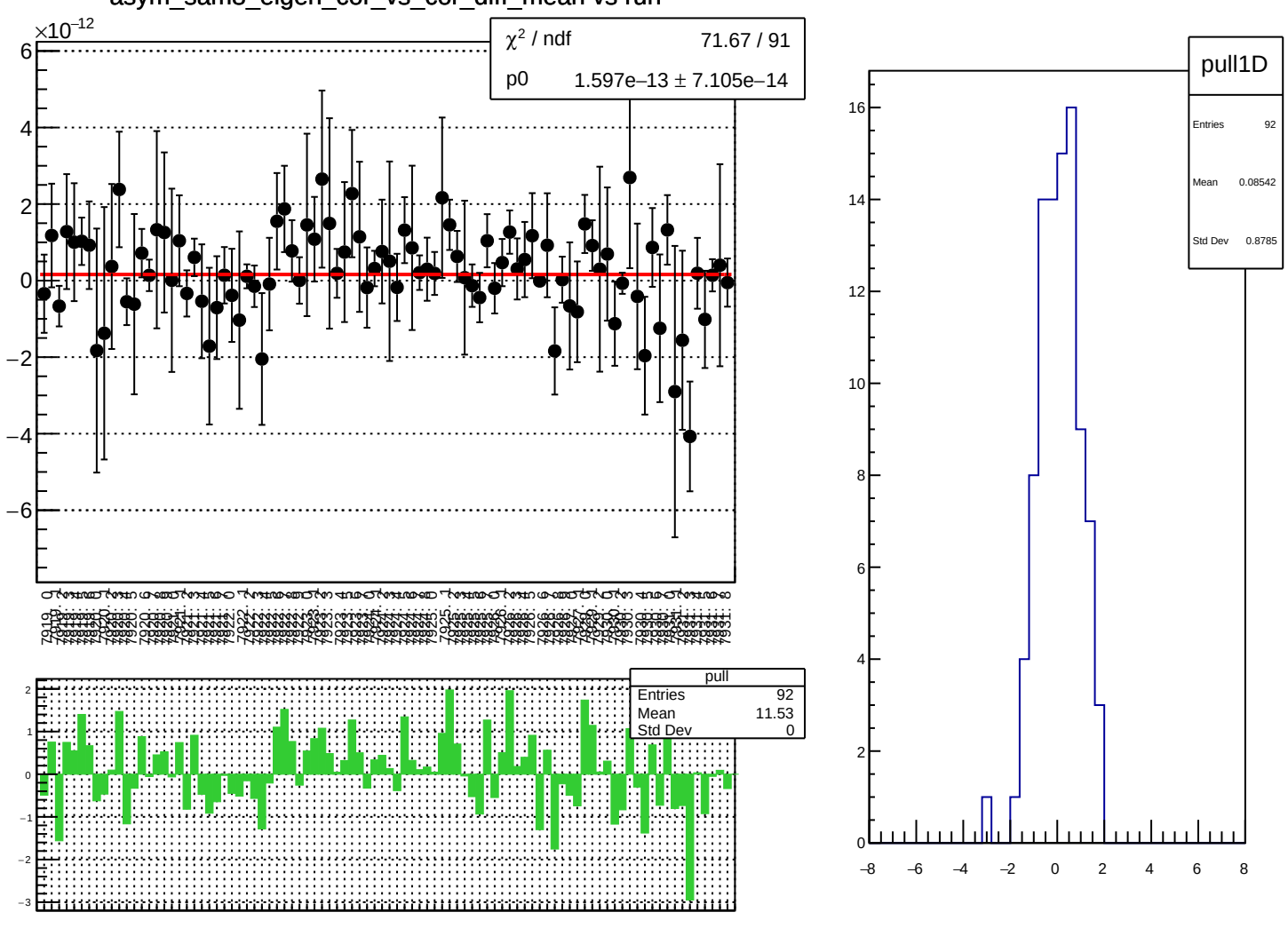

asym_sam8_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.76 / 91
p0 −0.009887 ± 0.03461
pull
Entries 92
Mean 42.2
Std Dev 56.55

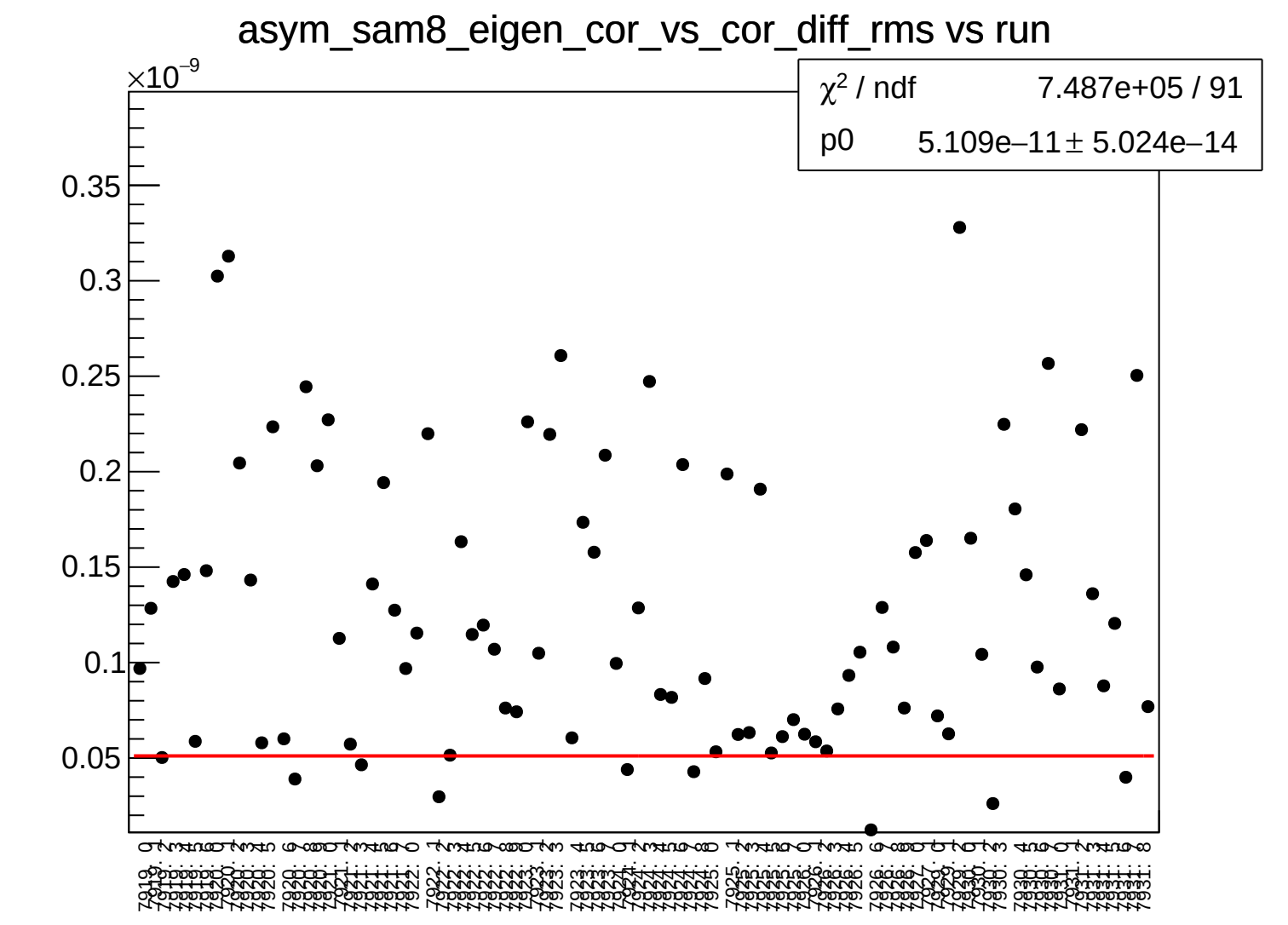

pull1D
Entries 92
Mean 0.003335
Std Dev 0.9252

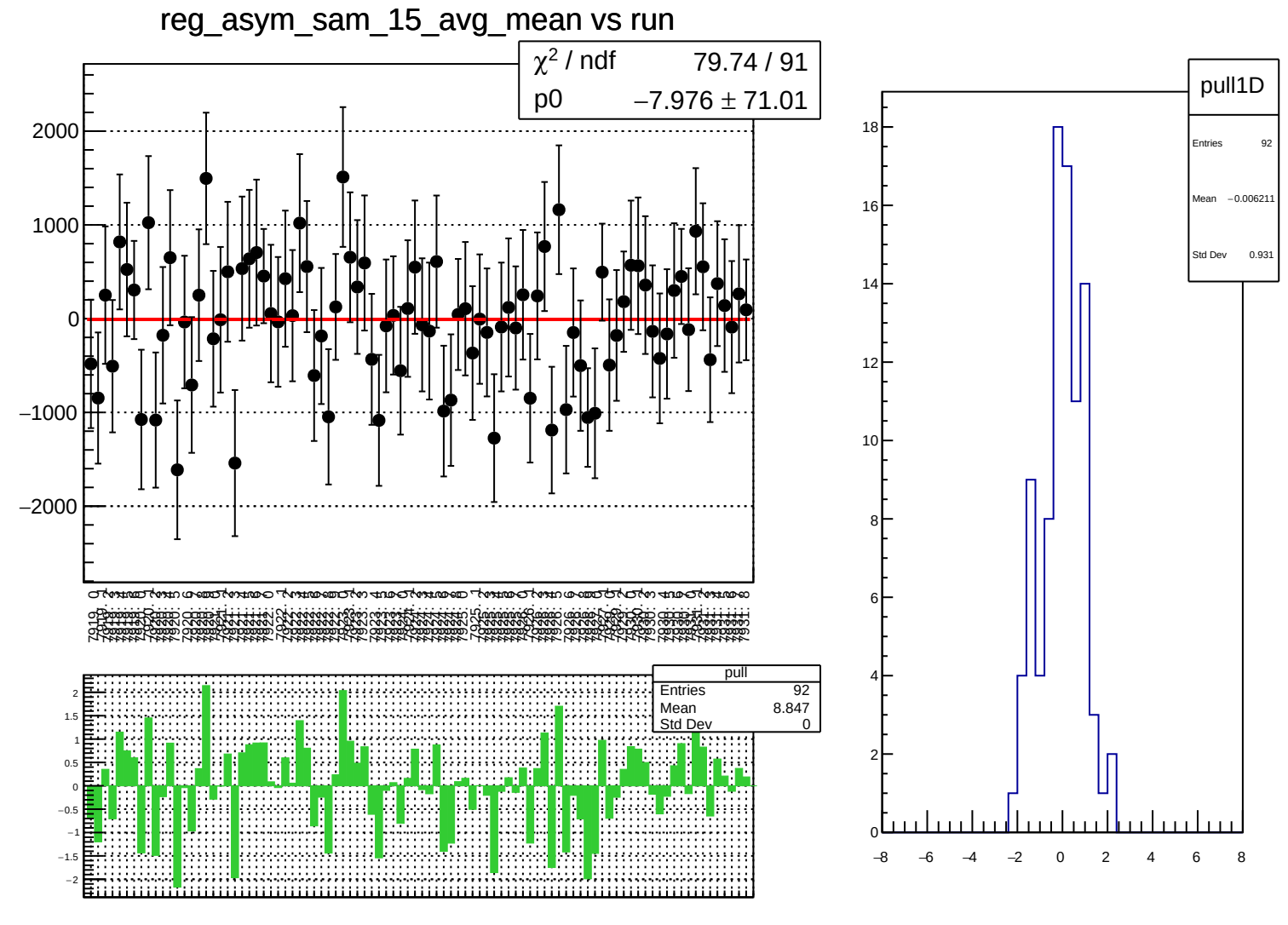

asym_sam8_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 6538 / 91
p0 32.61 ± 0.02447
40
38
36
34
32
30
28

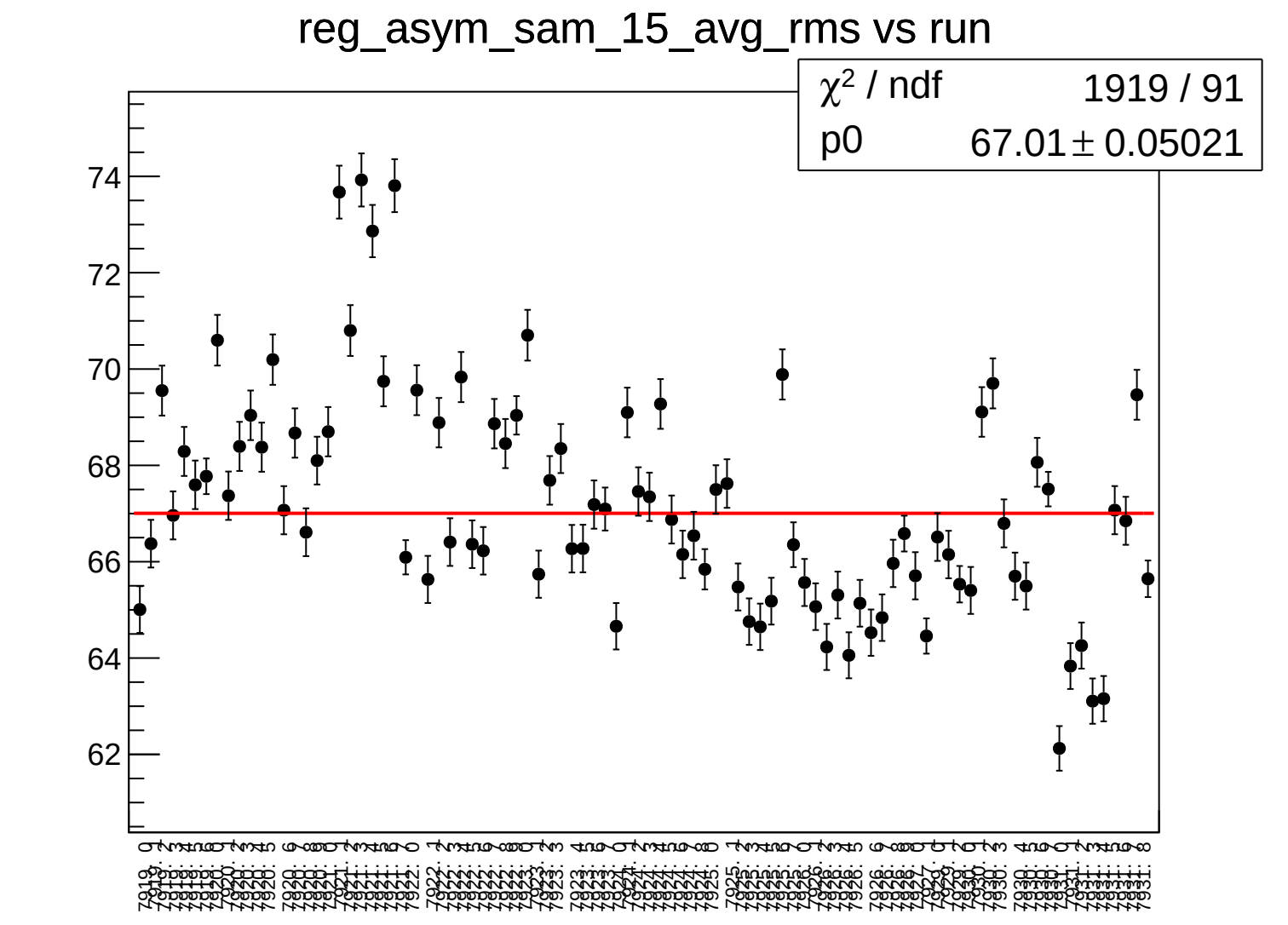

asym_sam8_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.76 / 91
p0 −0.009887 ± 0.03461
pull
Entries 92
Mean 42.2
Std Dev 56.55
pull1D
Entries 92
Mean 0.003335
Std Dev 0.9252

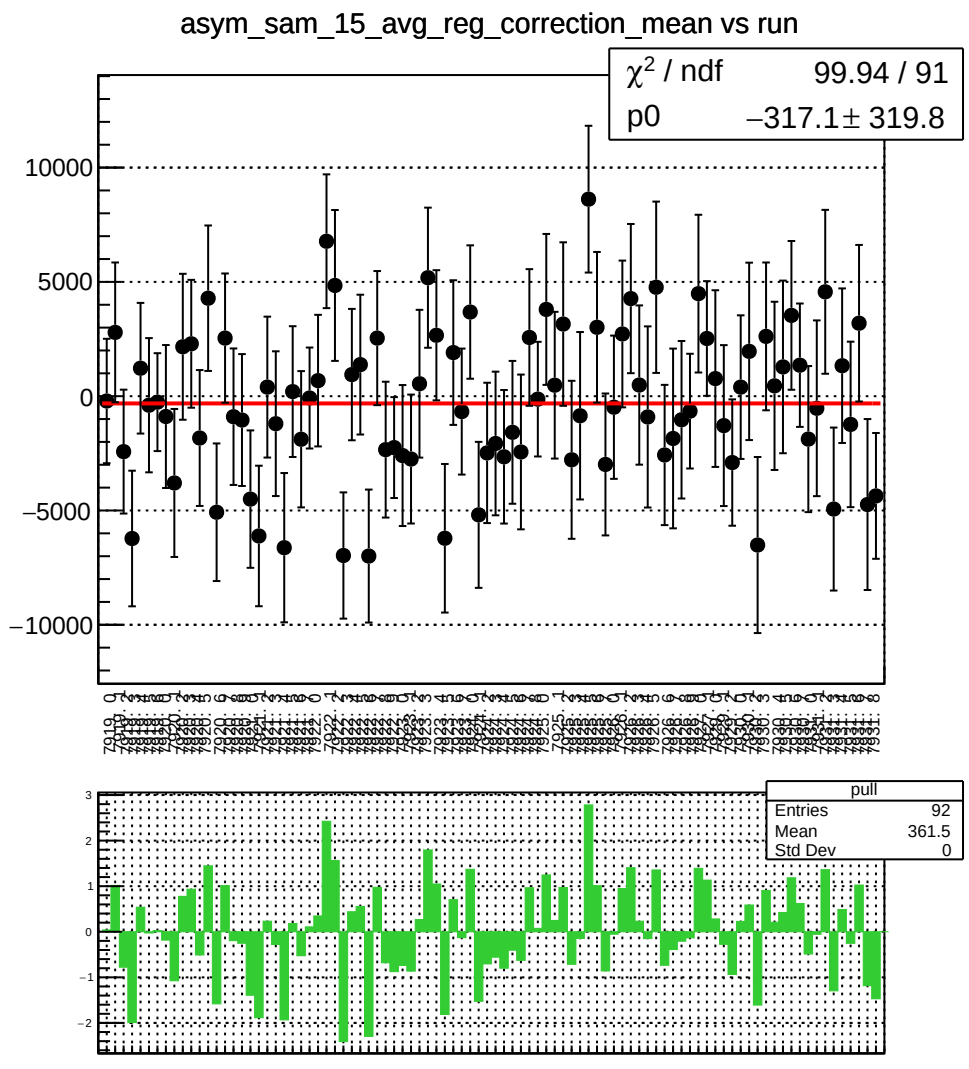

asym_sam8_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6538 / 91
p0 32.61 ± 0.02447
40
38
36
34
32
30
28

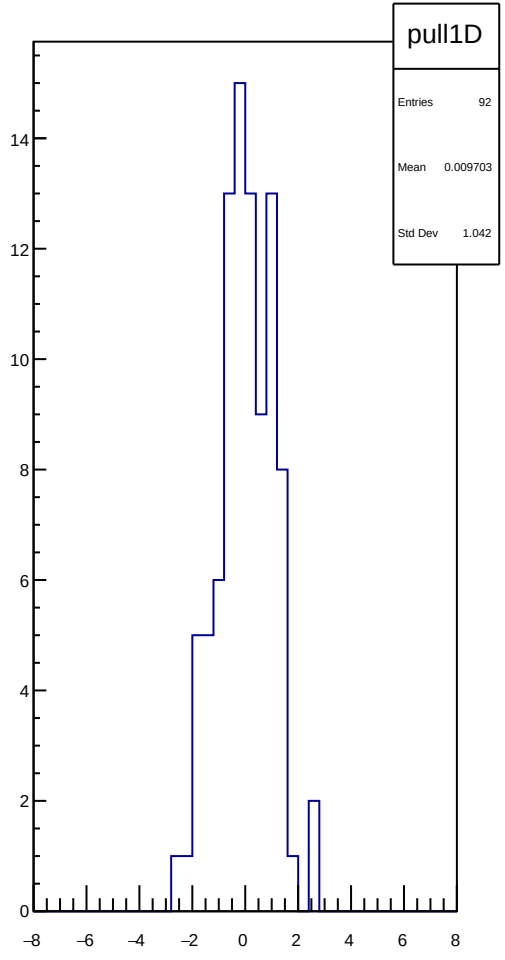

asym_sam8_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 71.67 / 91
p0 1.597e−13 ± 7.105e−14
pull
Entries 92
Mean 11.53
Std Dev 0
pull1D
Entries 92
Mean 0.08542
Std Dev 0.8785

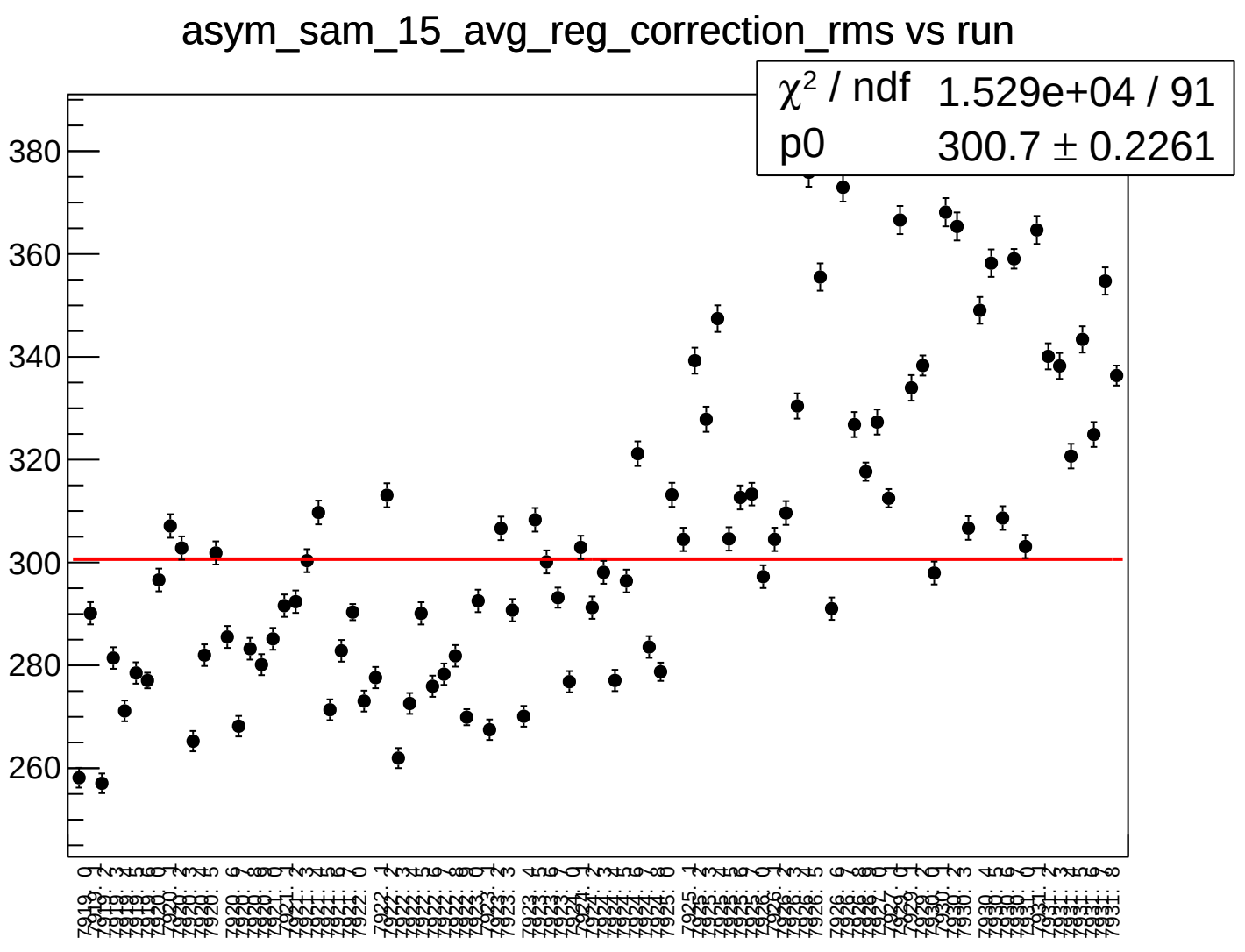

asym_sam8_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.487e+05 / 91
p0 5.109e−11 ± 5.024e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

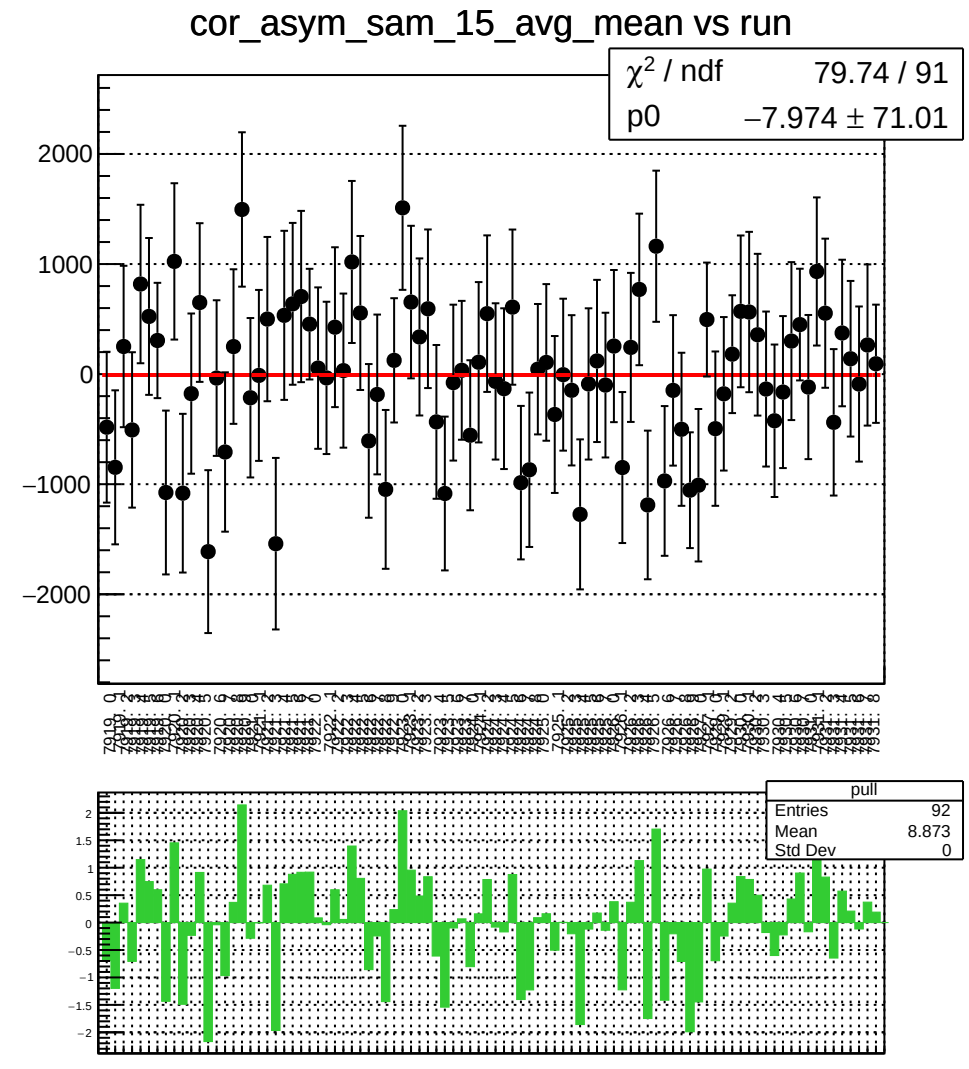

reg_asym_sam_15_avg_mean vs run
χ² / ndf 79.74 / 91
p0 −7.976 ± 71.01
2000
1000
0
−1000
−2000
pull
Entries 92
Mean 8.847
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean −0.006211
Std Dev 0.931
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

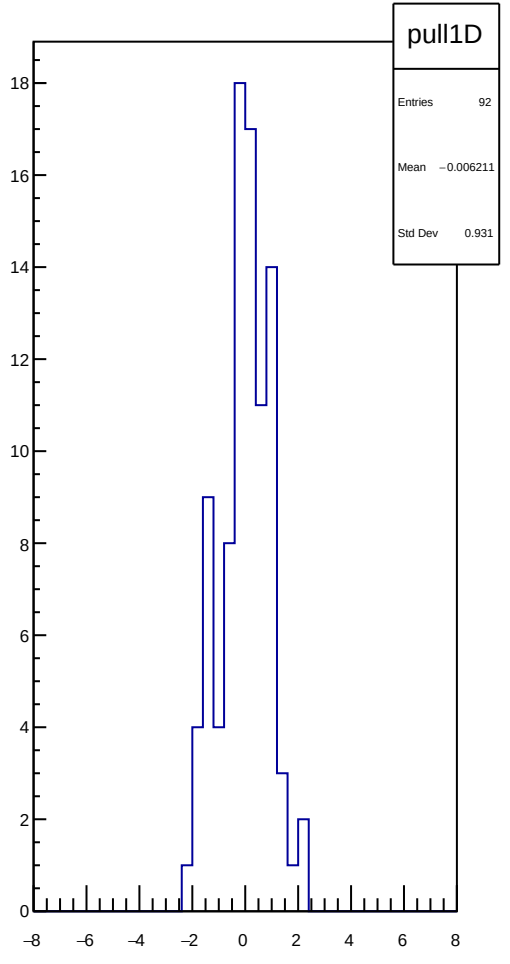

reg_asym_sam_15_avg_rms vs run
χ^2 / ndf 1919 / 91
p0 67.01 ± 0.05021
74
72
70
68
66
64
62

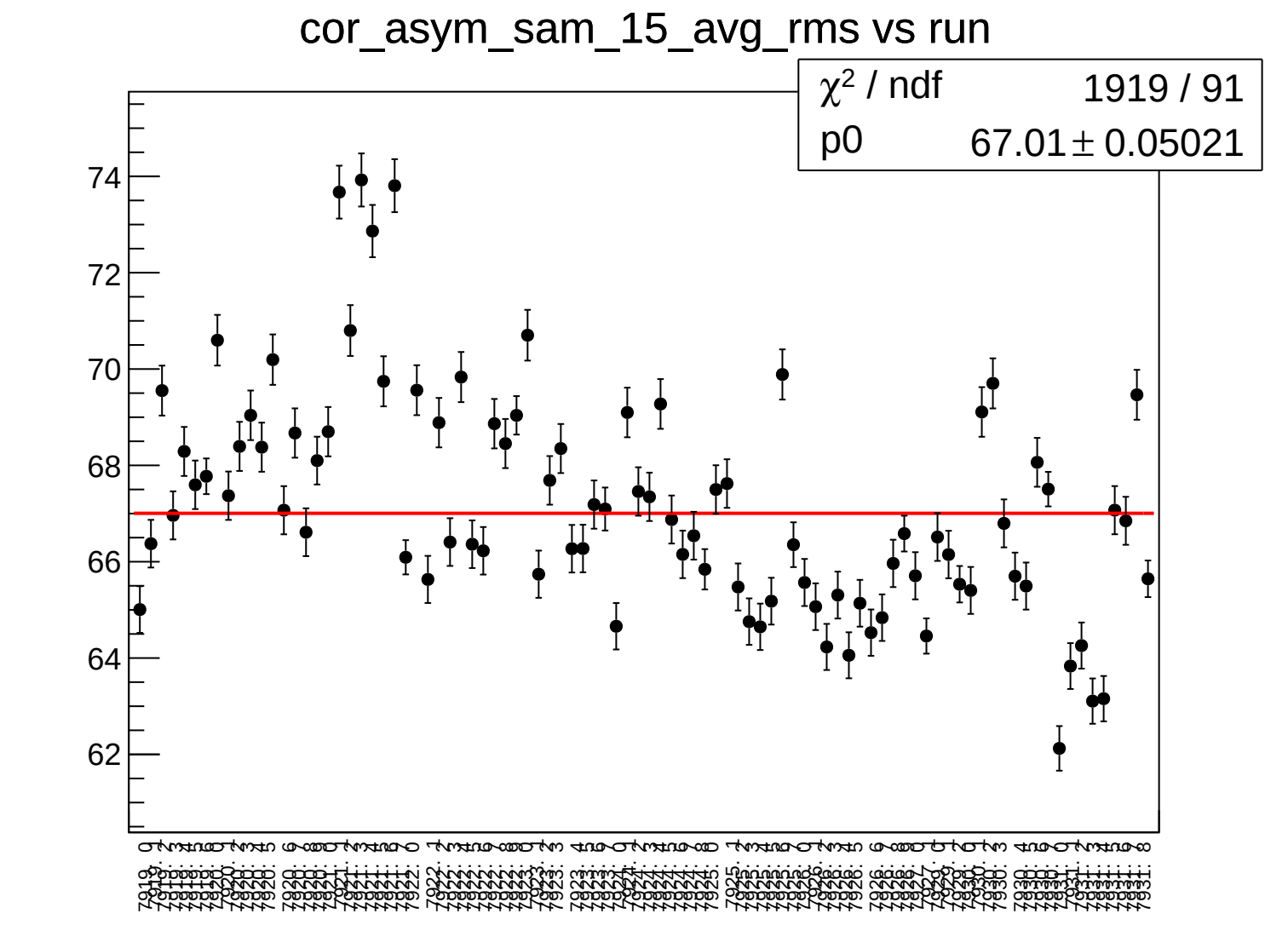

asym_sam_15_avg_reg_correction_mean vs run
χ² / ndf 99.94 / 91
p0 −317.1± 319.8
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 361.5
Std Dev 0
3
2
1
0
−1
−2

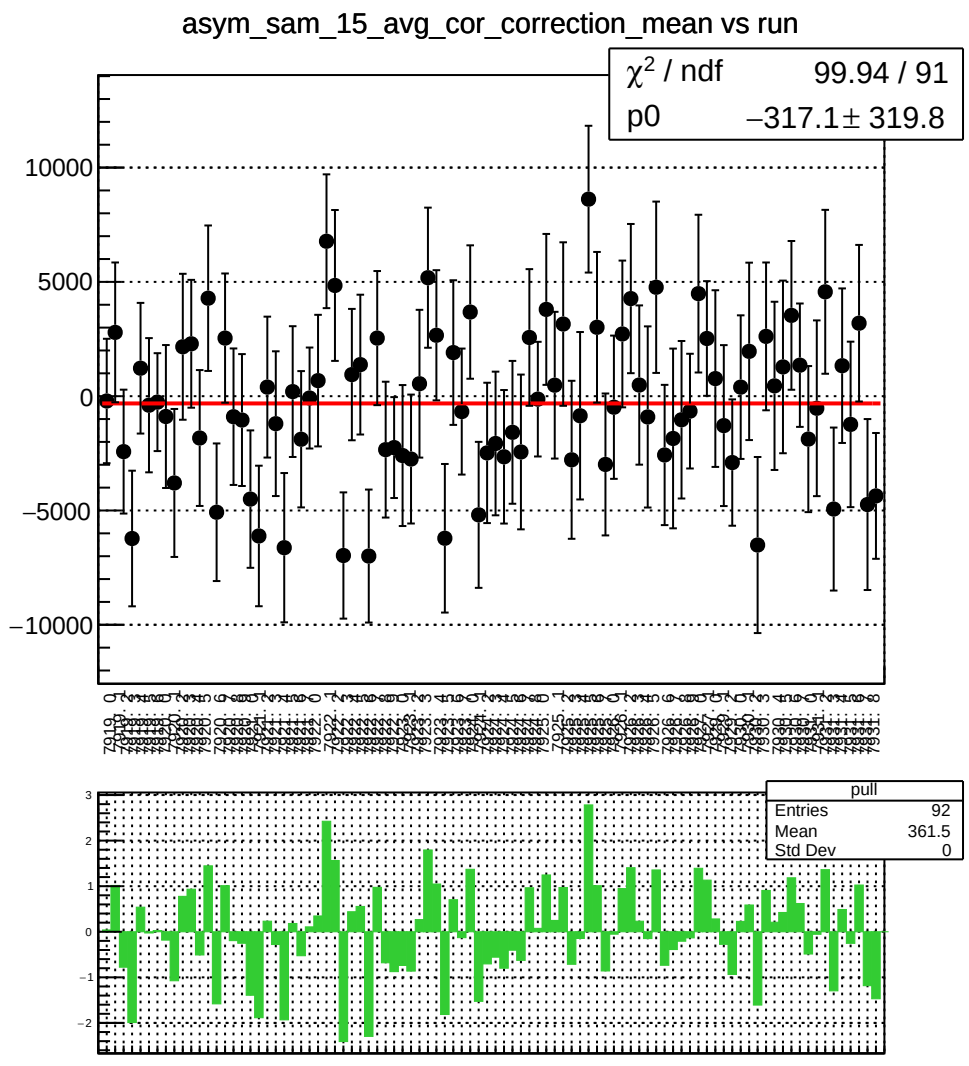

pull1D
Entries 92
Mean 0.009703
Std Dev 1.042
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

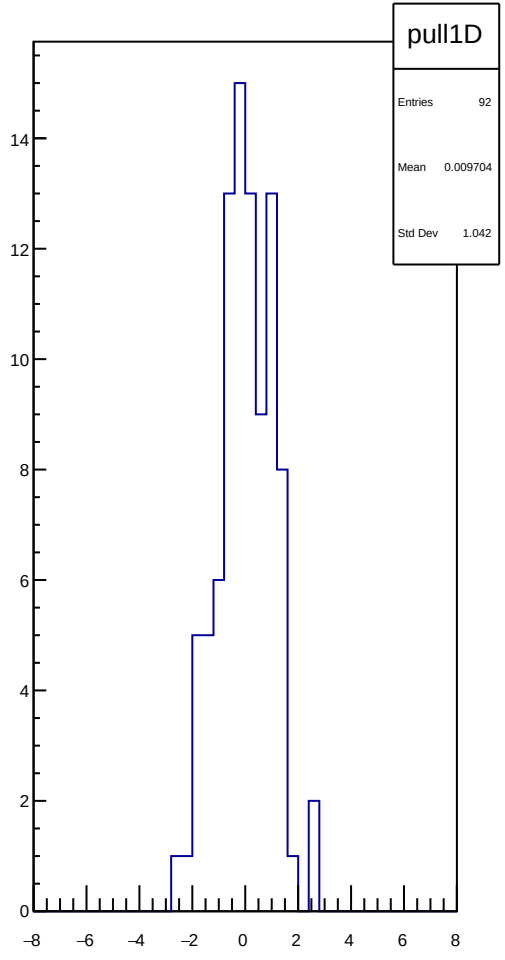

asym_sam_15_avg_reg_correction_rms vs run
χ² / ndf 1.529e+04 / 91
p0 300.7 ± 0.2261
380
360
340
320
300
280
260

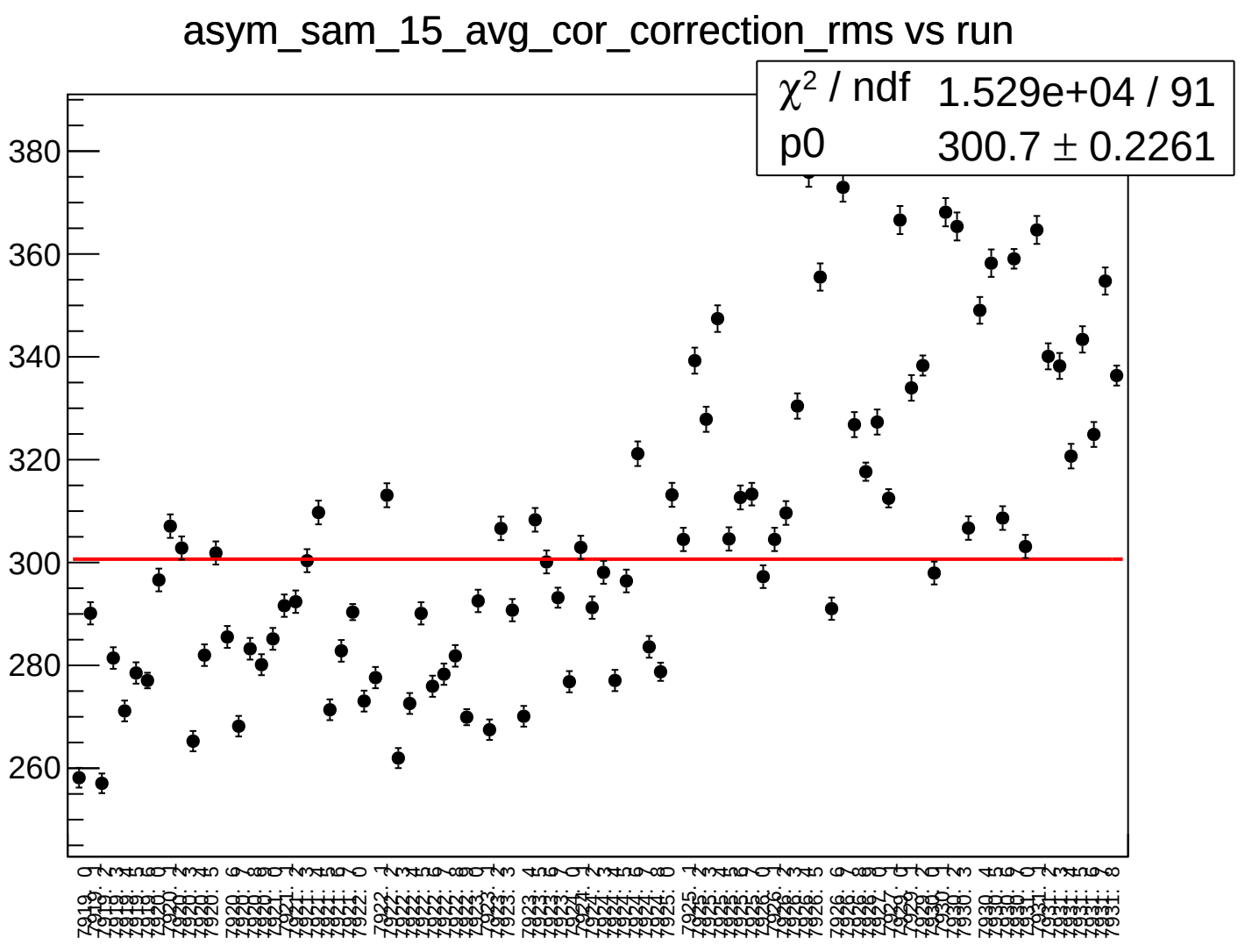

cor_asym_sam_15_avg_mean vs run
χ² / ndf 79.74 / 91
p0 −7.974 ± 71.01
2000
1000
0
−1000
−2000
pull
Entries 92
Mean 8.873
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

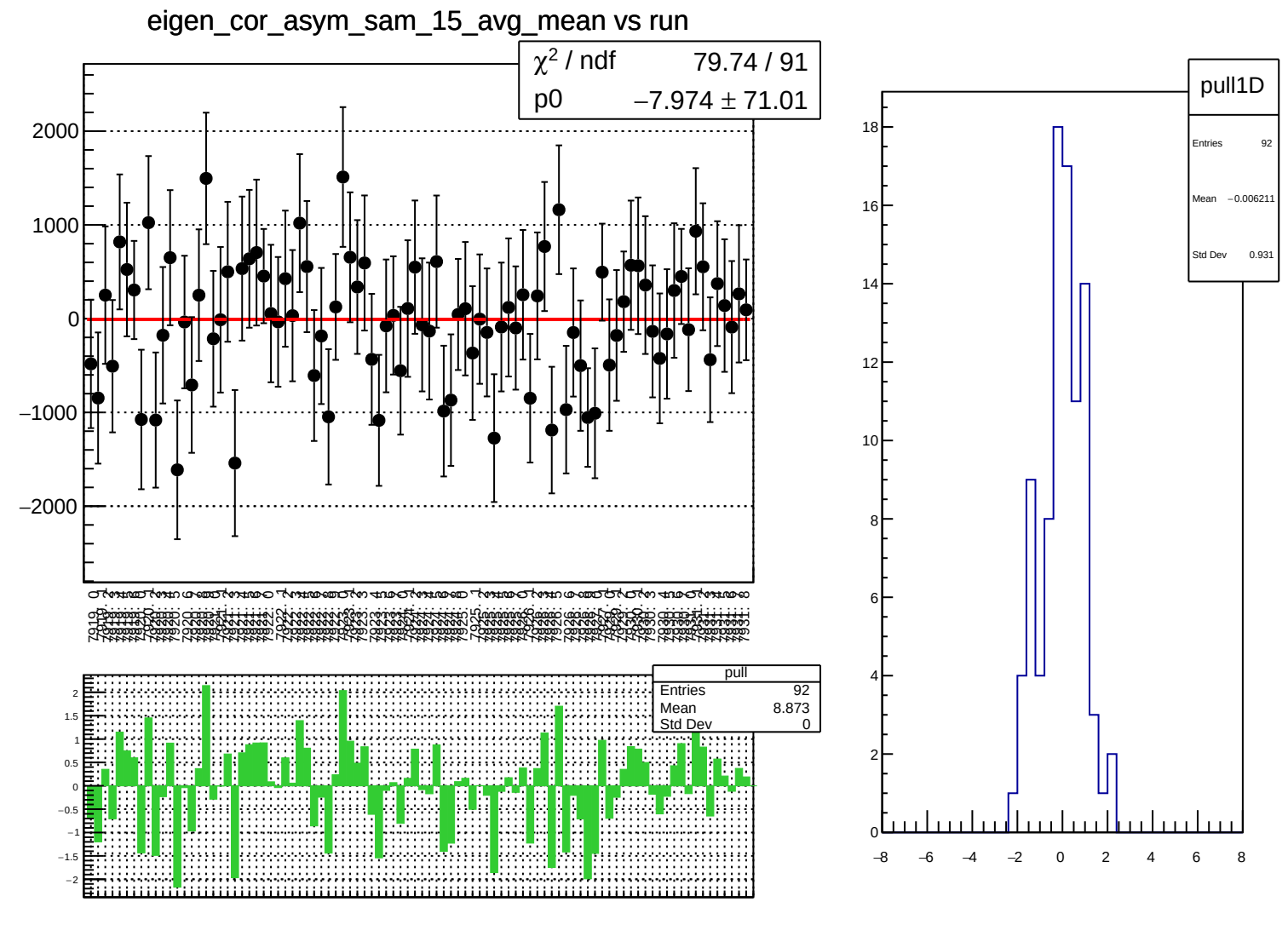

pull1D
Entries 92
Mean −0.006211
Std Dev 0.931
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

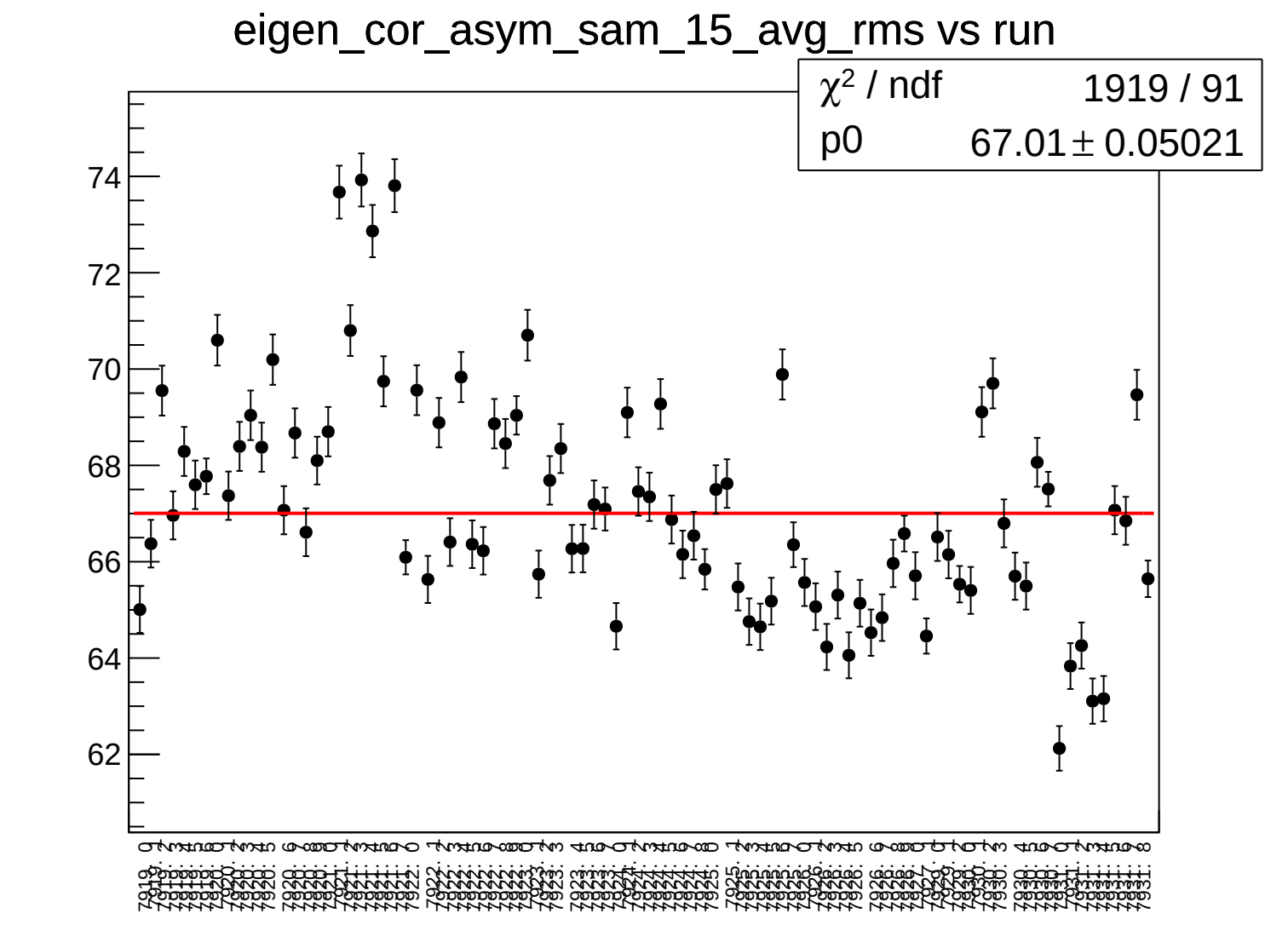

cor_asym_sam_15_avg_rms vs run
χ^2 / ndf 1919 / 91
p0 67.01 ± 0.05021
74
72
70
68
66
64
62

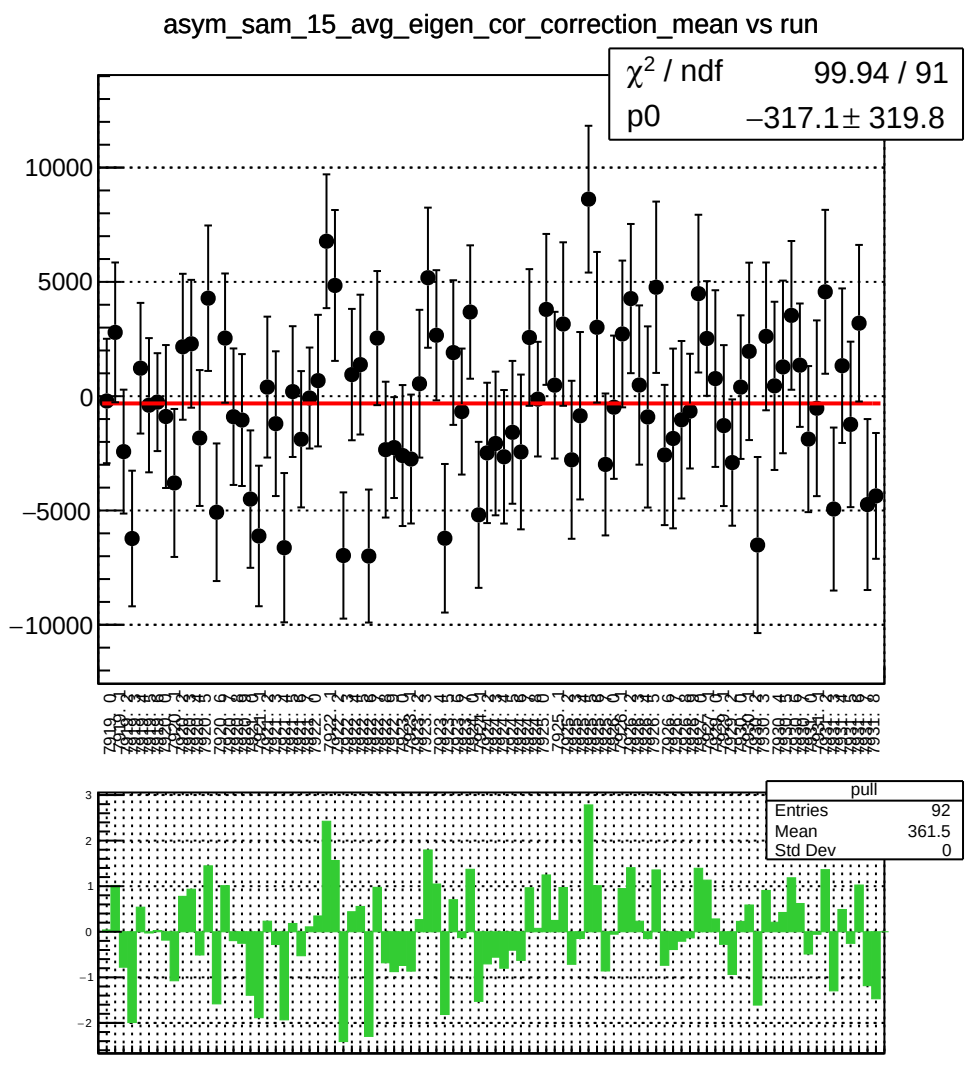

asym_sam_15_avg_cor_correction_mean vs run
χ² / ndf 99.94 / 91
p0 −317.1± 319.8
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 361.5
Std Dev 0
3
2
1
0
−1
−2

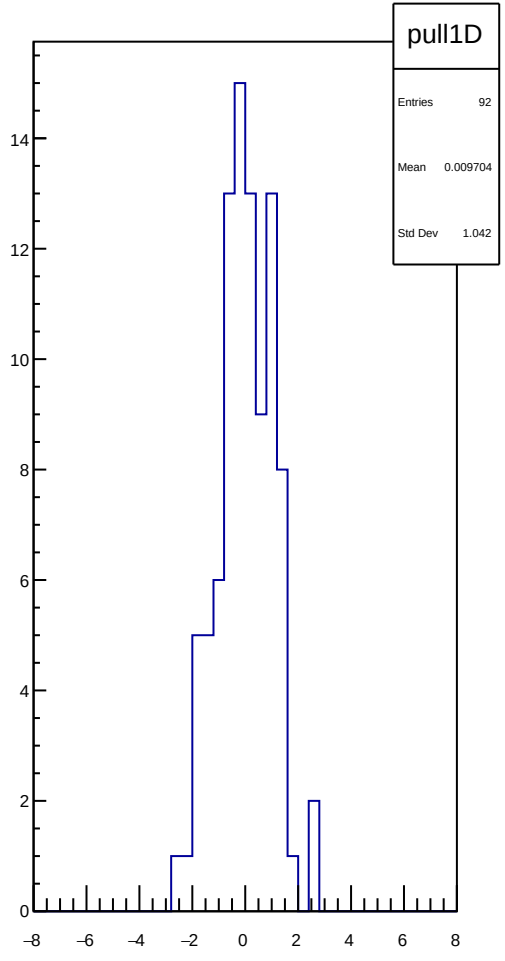

pull1D
Entries 92
Mean 0.009704
Std Dev 1.042
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

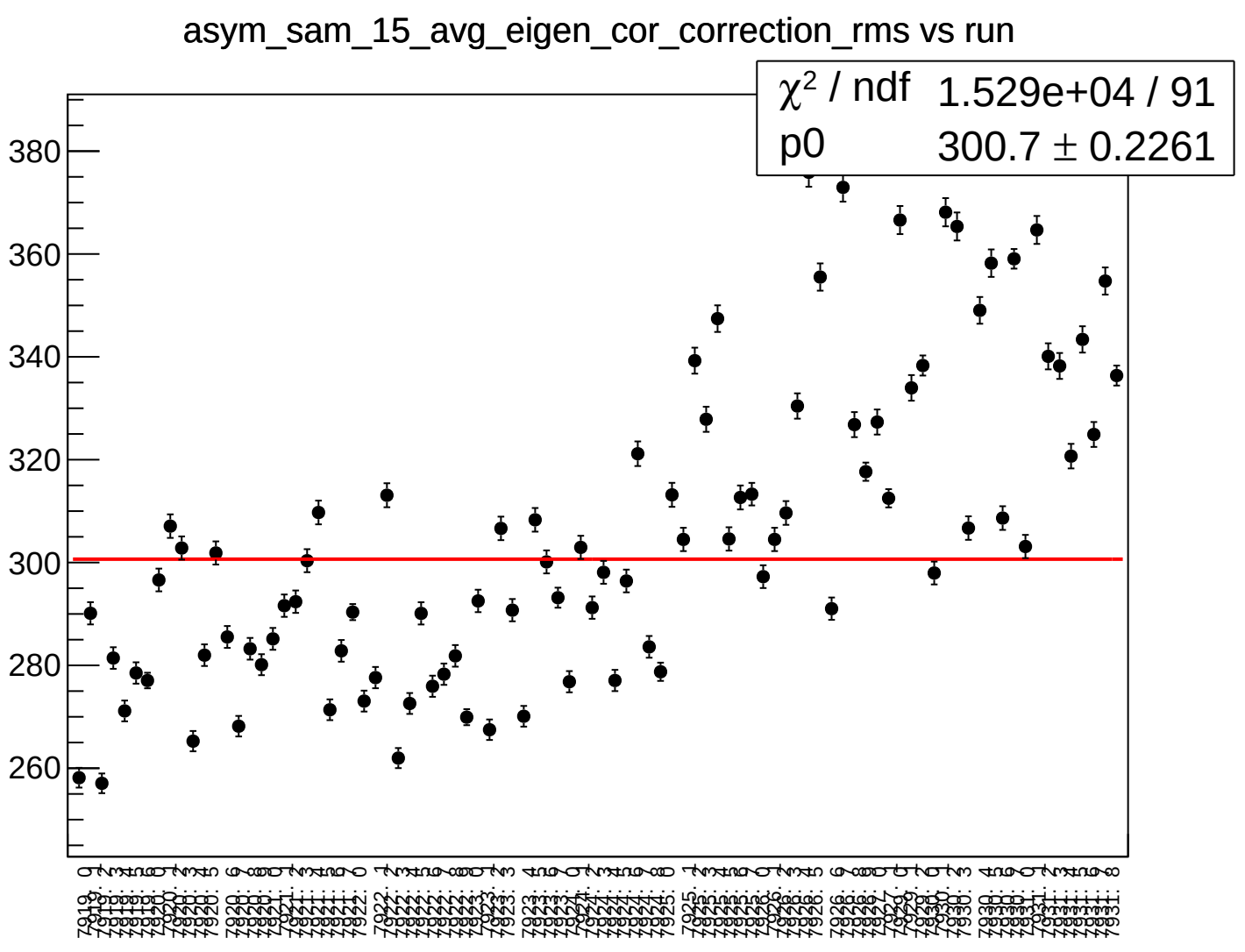

asym_sam_15_avg_cor_correction_rms vs run
χ² / ndf 1.529e+04 / 91
p0 300.7 ± 0.2261
380
360
340
320
300
280
260

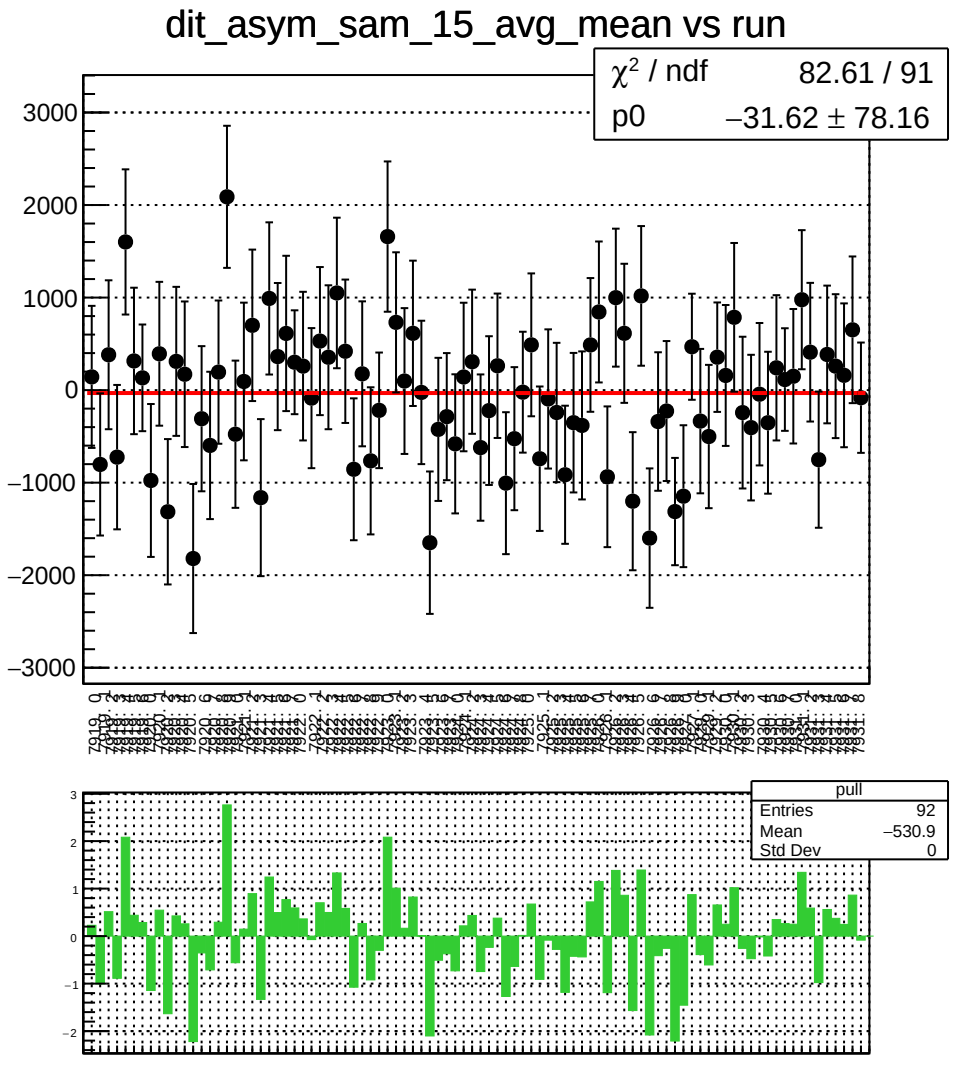

eigen_cor_asym_sam_15_avg_mean vs run
χ² / ndf 79.74 / 91
p0 −7.974 ± 71.01
2000
1000
0
−1000
−2000
pull
Entries 92
Mean 8.873
Std Dev 0
pull1D
Entries 92
Mean −0.006211
Std Dev 0.931

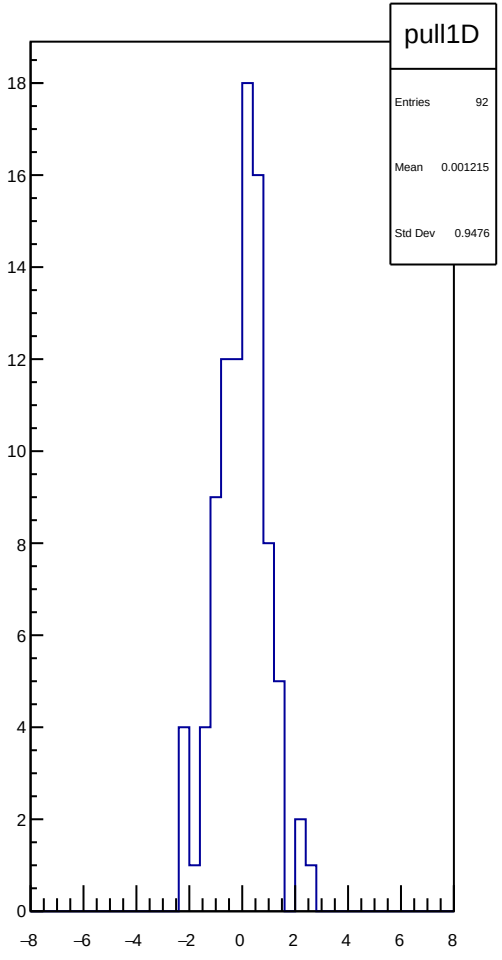

eigen_cor_asym_sam_15_avg_rms vs run
χ^2 / ndf 1919 / 91
p0 67.01 ± 0.05021
74
72
70
68
66
64
62

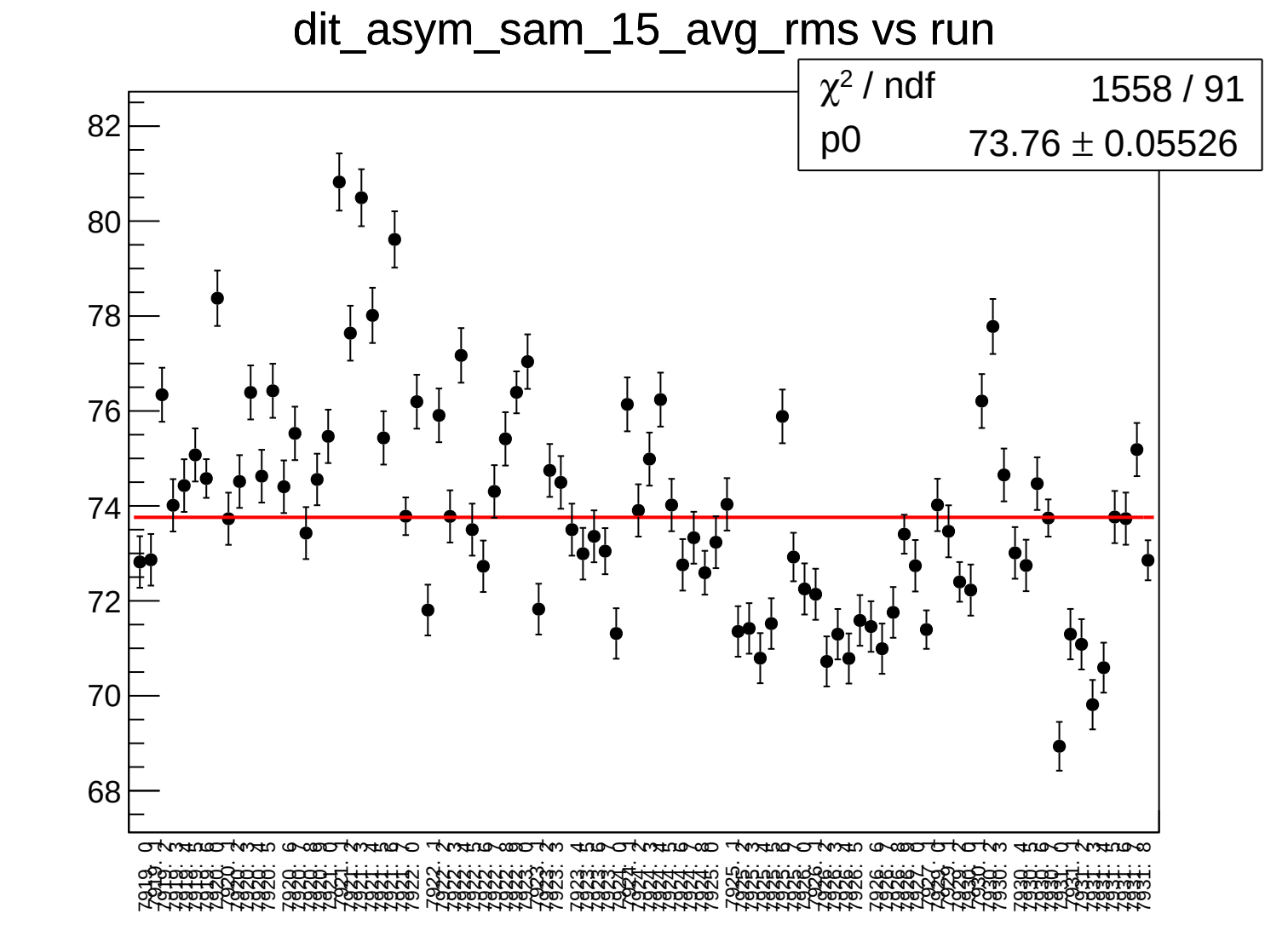

asym_sam_15_avg_eigen_cor_correction_mean vs run
χ² / ndf 99.94 / 91
p0 −317.1± 319.8
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 361.5
Std Dev 0
3
2
1
0
−1
−2

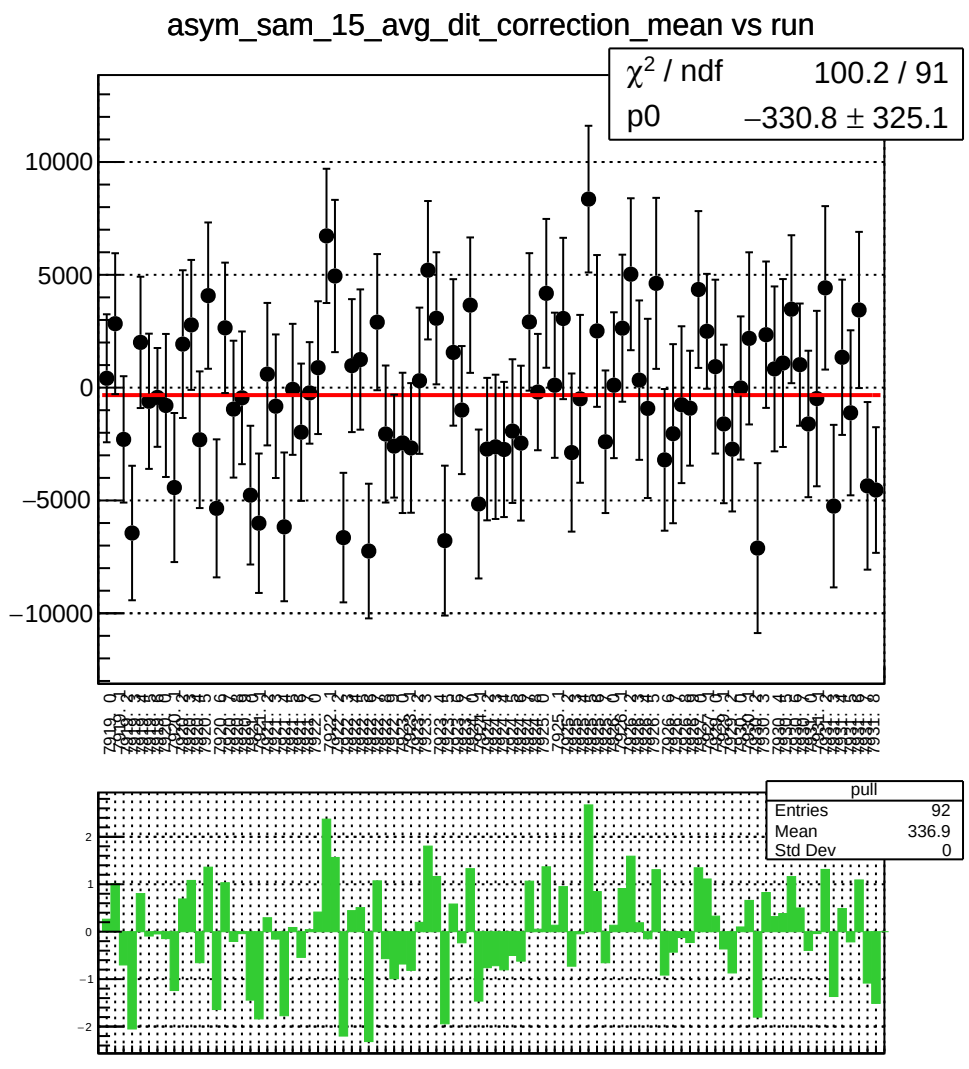

pull1D
Entries 92
Mean 0.009704
Std Dev 1.042
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

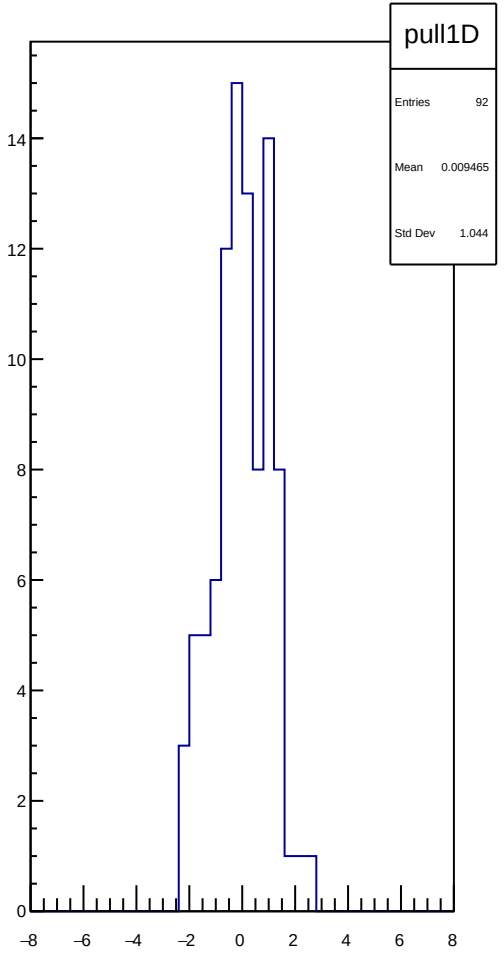

asym_sam_15_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.529e+04 / 91
p0 300.7 ± 0.2261
380
360
340
320
300
280
260

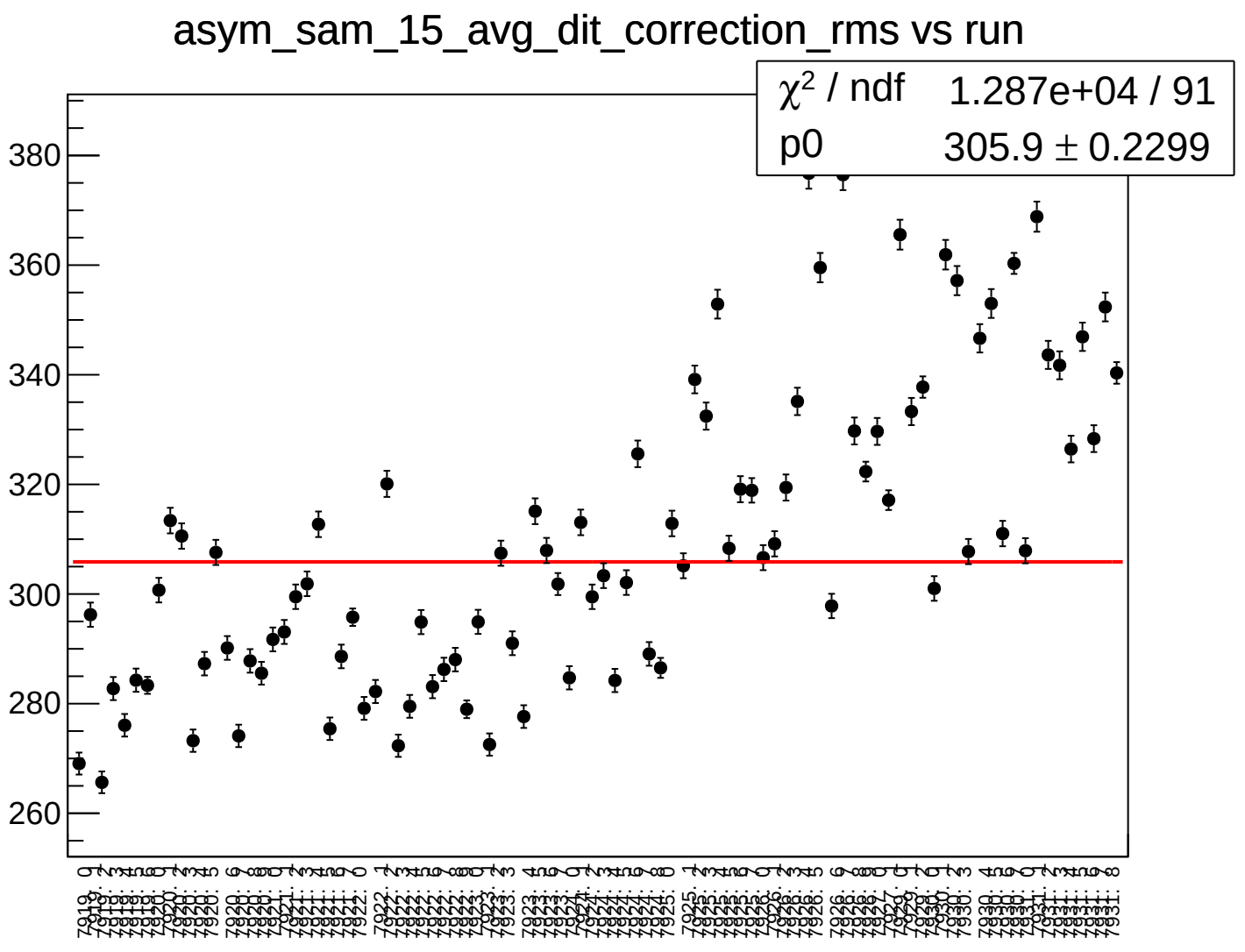

dit_asym_sam_15_avg_mean vs run
χ² / ndf 82.61 / 91
p0 −31.62 ± 78.16
pull
Entries 92
Mean −530.9
Std Dev 0

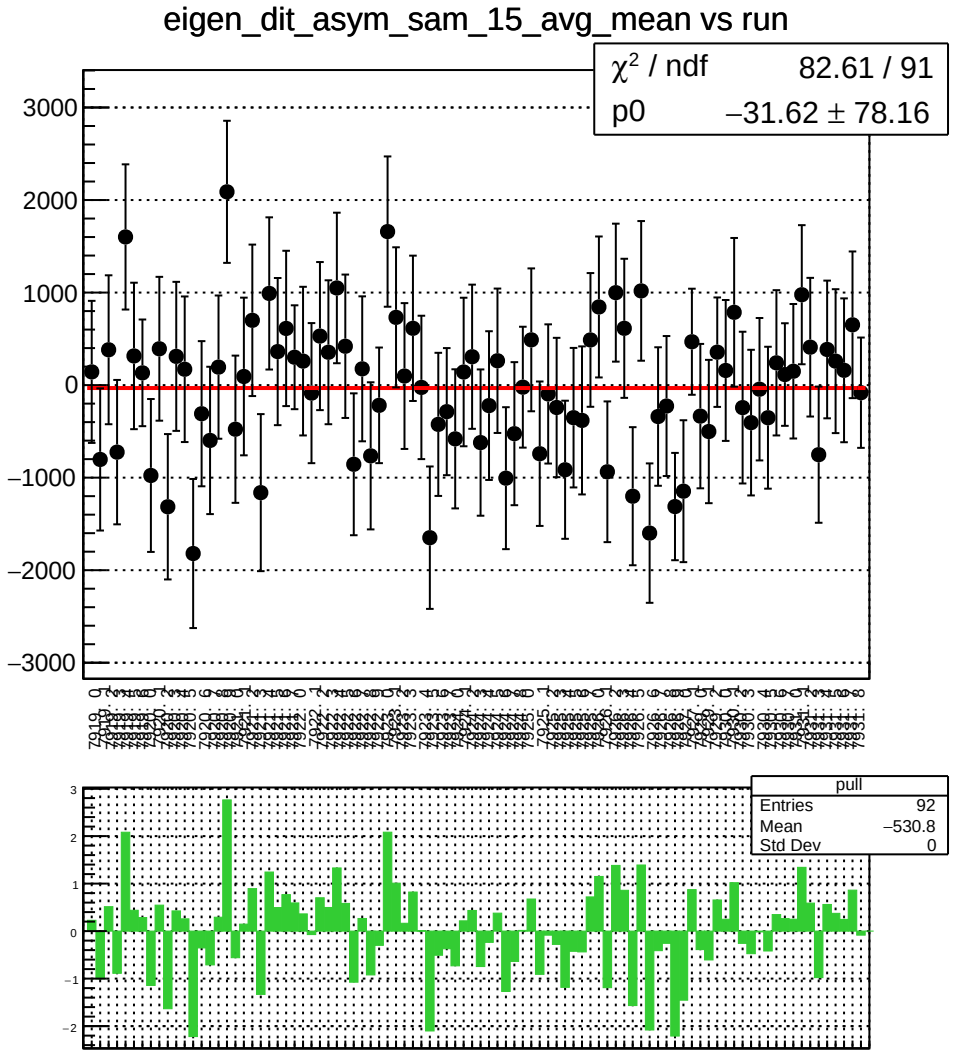

pull1D
Entries 92
Mean 0.001215
Std Dev 0.9476

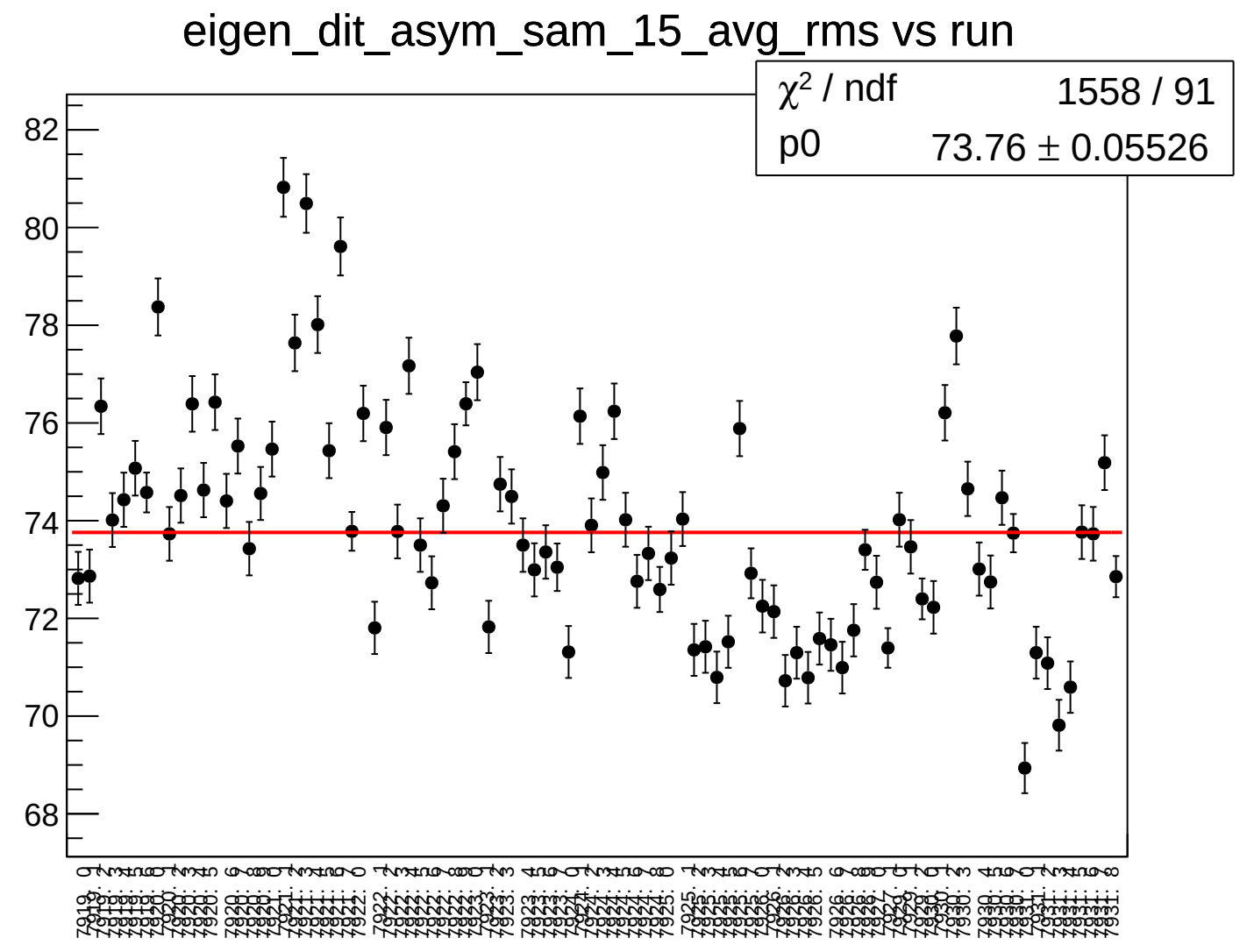

dit_asym_sam_15_avg_rms vs run
χ² / ndf 1558 / 91
p0 73.76 ± 0.05526
82
80
78
76
74
72
70
68

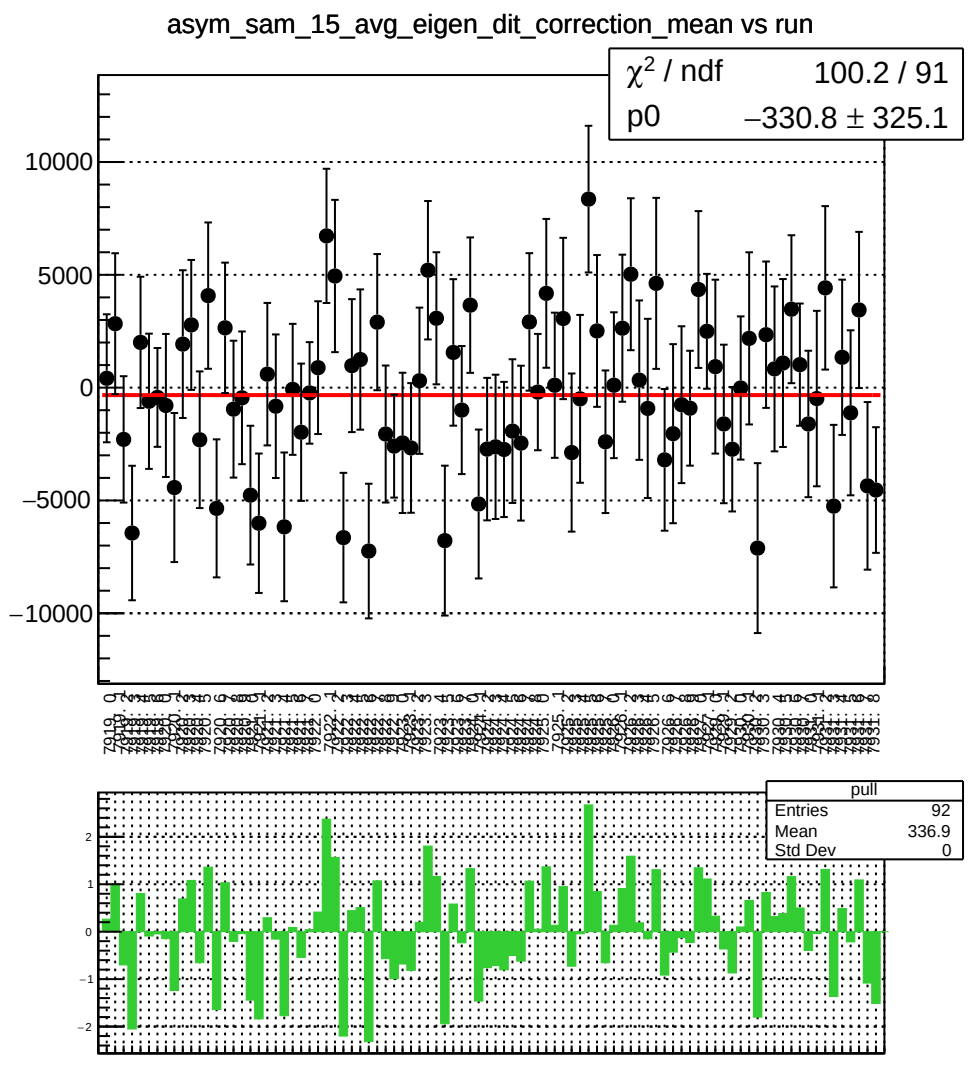

asym_sam_15_avg_dit_correction_mean vs run
χ² / ndf 100.2 / 91
p0 −330.8 ± 325.1
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 336.9
Std Dev 0
2
1
0
−1
−2

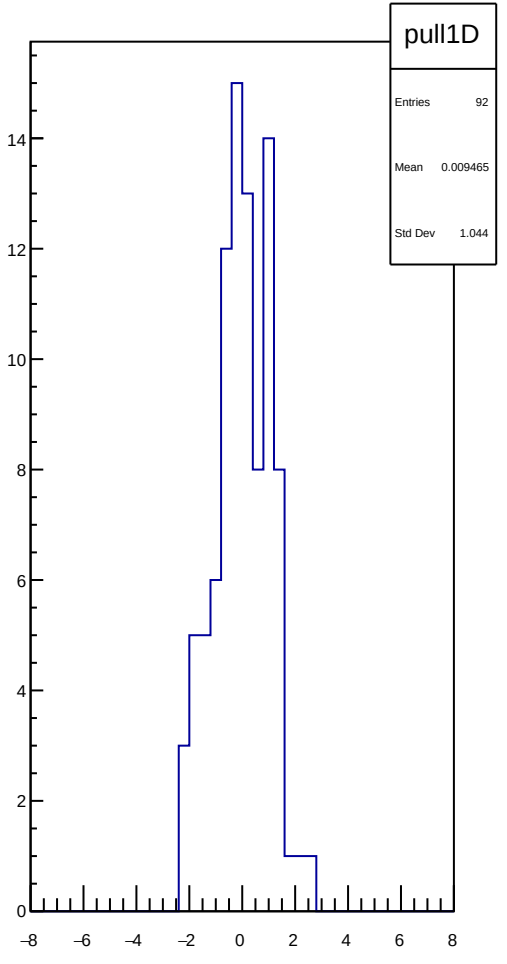

pull1D
Entries 92
Mean 0.009465
Std Dev 1.044
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

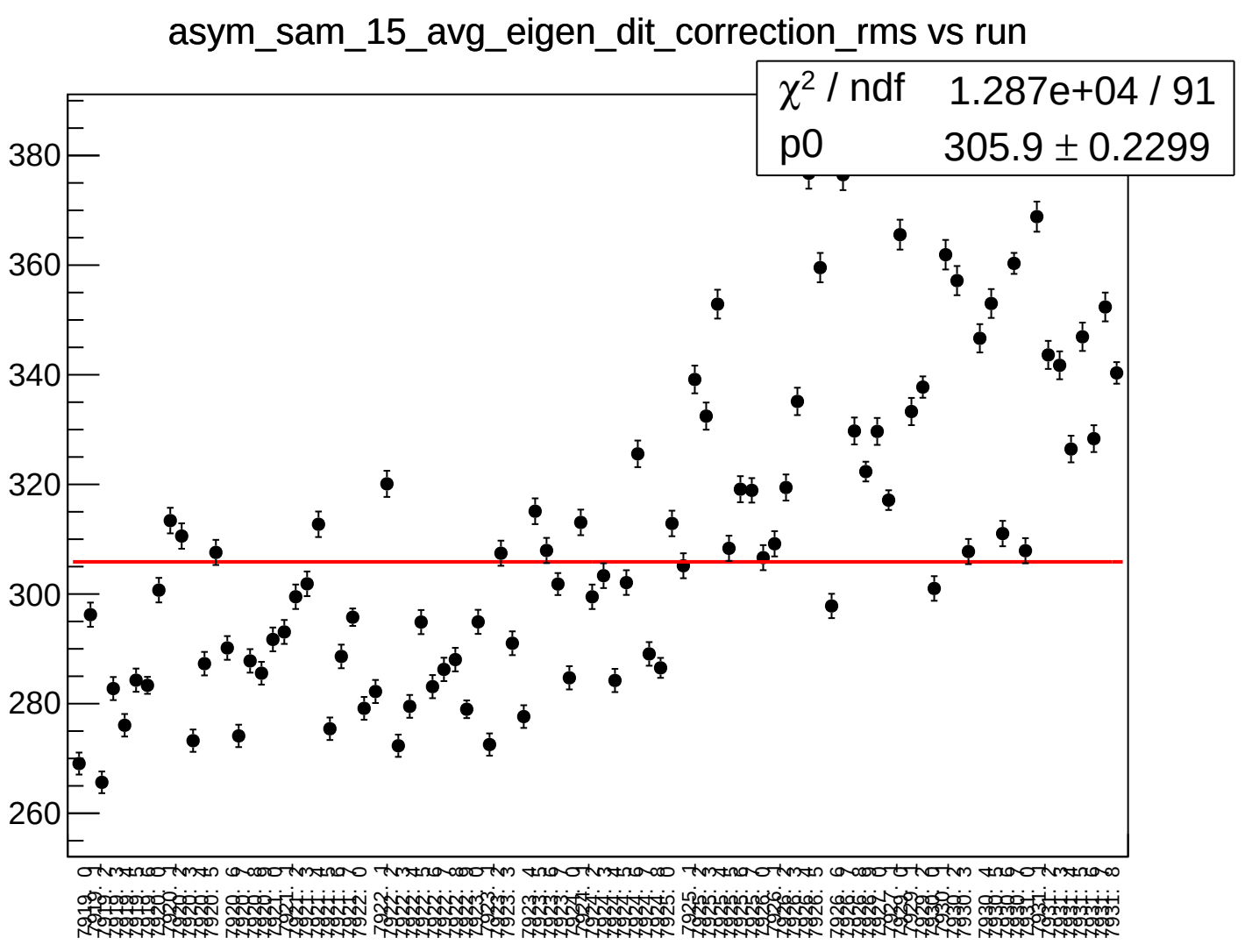

asym_sam_15_avg_dit_correction_rms vs run
χ² / ndf 1.287e+04 / 91
p0 305.9 ± 0.2299
380
360
340
320
300
280
260

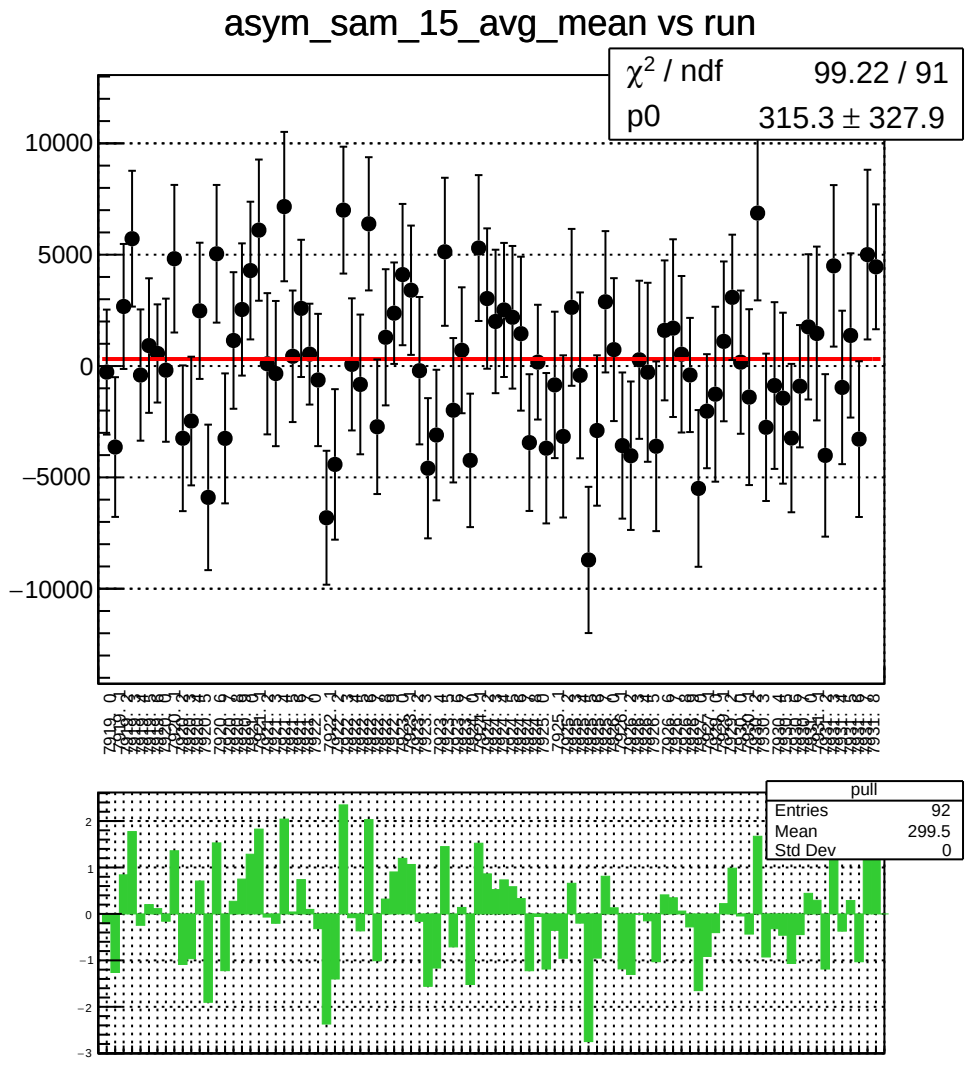

eigen_dit_asym_sam_15_avg_mean vs run
χ² / ndf 82.61 / 91
p0 −31.62 ± 78.16
pull
Entries 92
Mean −530.8
Std Dev 0
pull1D
Entries 92
Mean 0.001216
Std Dev 0.9476

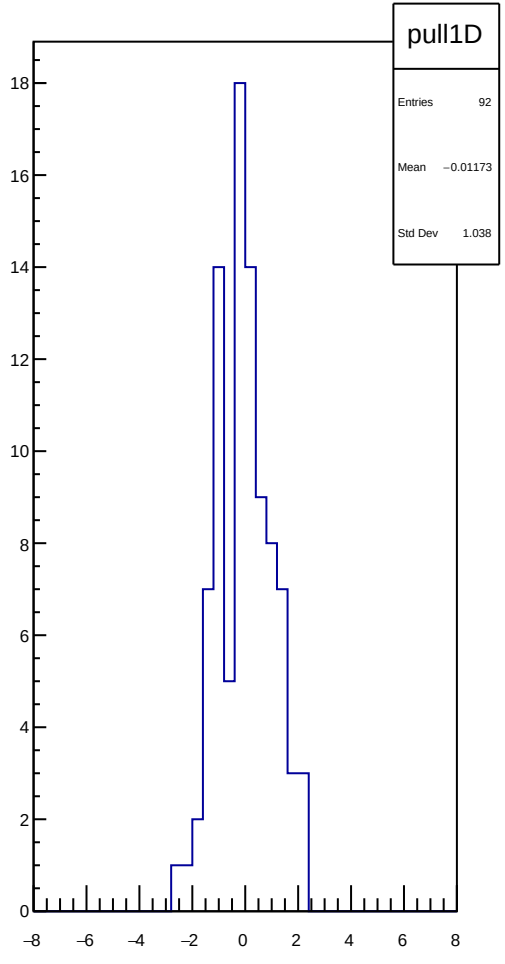

eigen_dit_asym_sam_15_avg_rms vs run
χ² / ndf 1558 / 91
p0 73.76 ± 0.05526
82
80
78
76
74
72
70
68

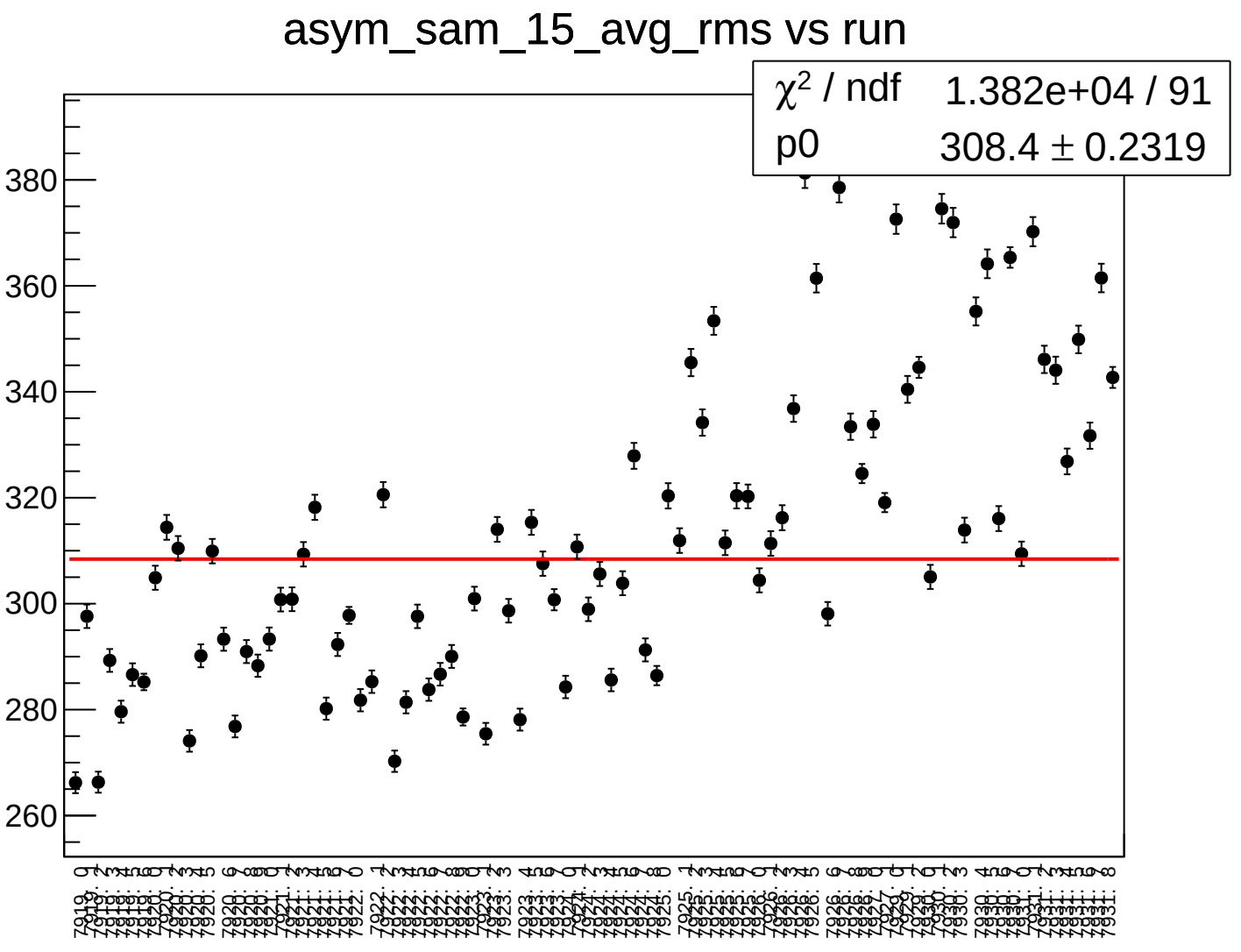

asym_sam_15_avg_eigen_dit_correction_mean vs run
χ² / ndf 100.2 / 91
p0 −330.8 ± 325.1
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 336.9
Std Dev 0
2
1
0
−1
−2

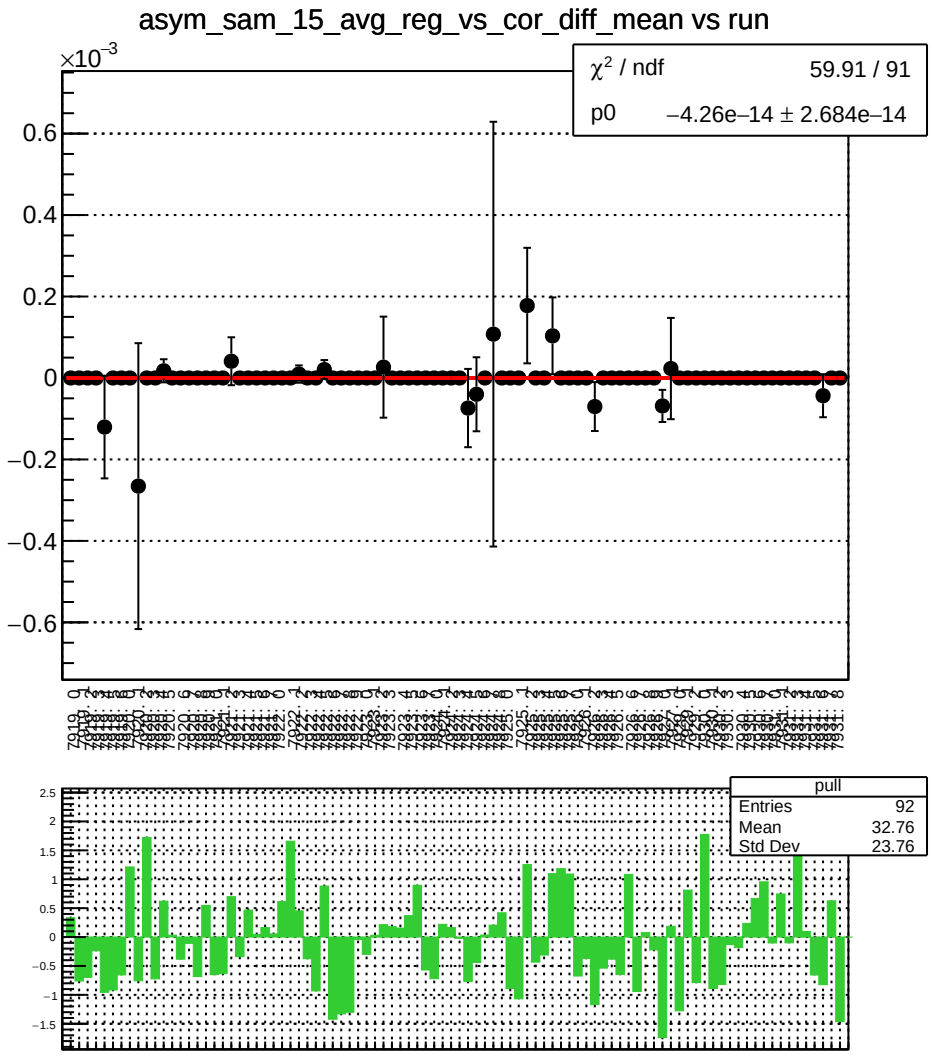

pull1D
Entries 92
Mean 0.009465
Std Dev 1.044
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

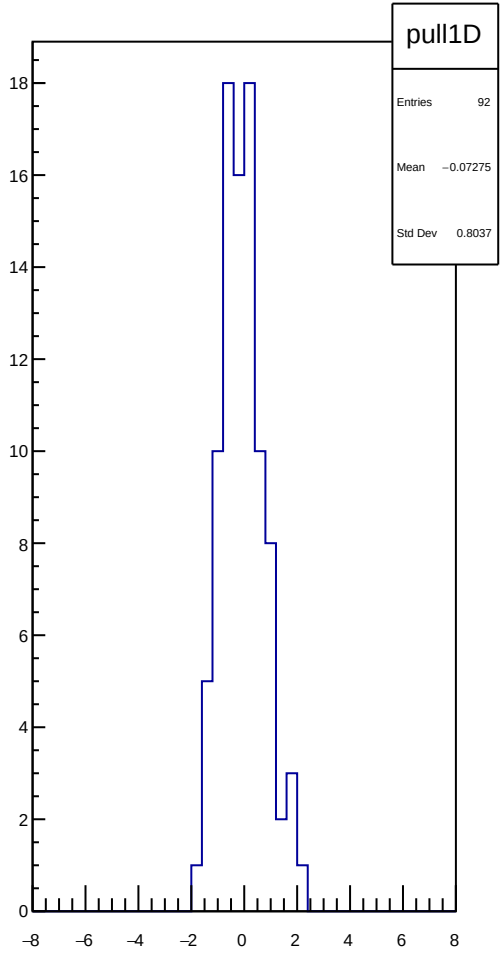

asym_sam_15_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.287e+04 / 91
p0 305.9 ± 0.2299
380
360
340
320
300
280
260

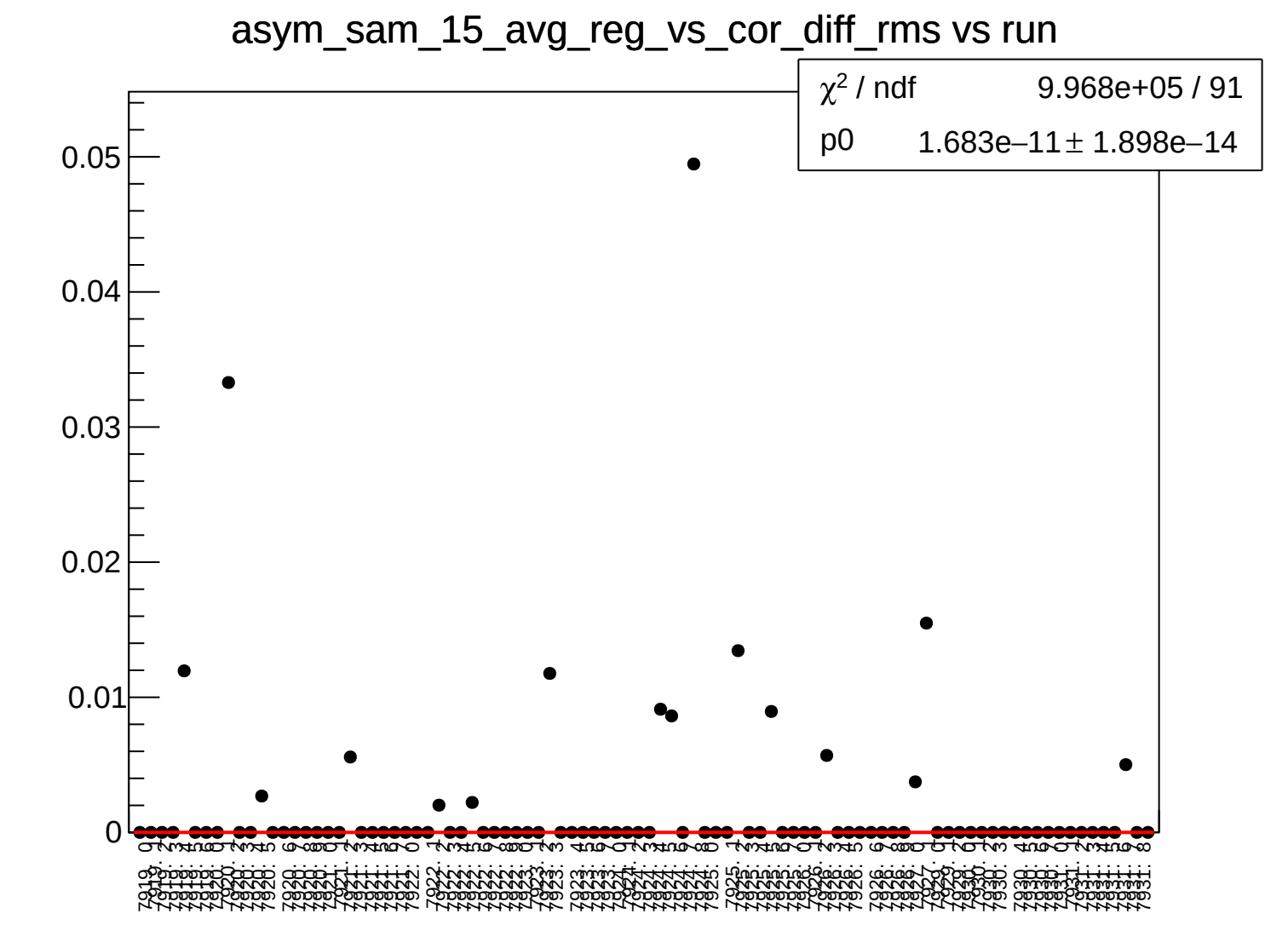

asym_sam_15_avg_mean vs run
χ^2 / ndf 99.22 / 91
p0 315.3 ± 327.9
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 299.5
Std Dev 0
2
1
0
−1
−2
−3

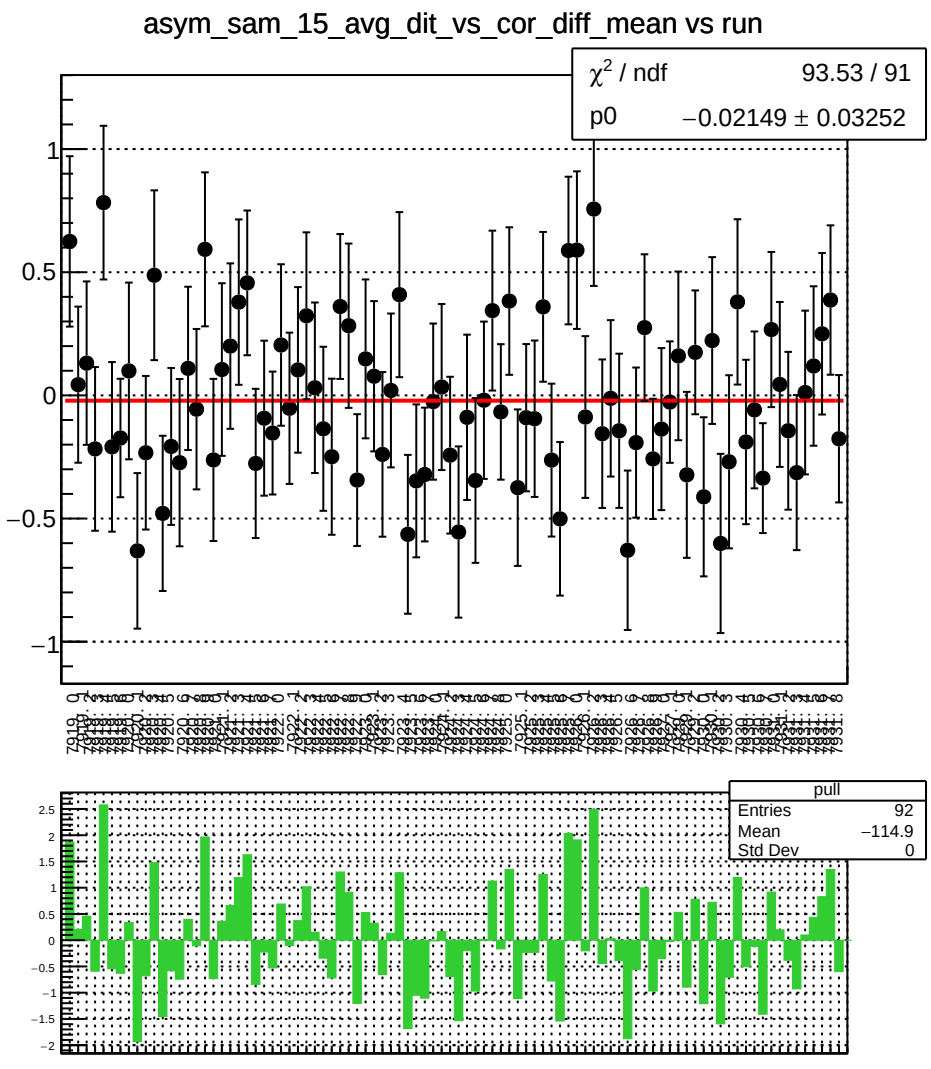

pull1D
Entries 92
Mean −0.01173
Std Dev 1.038
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

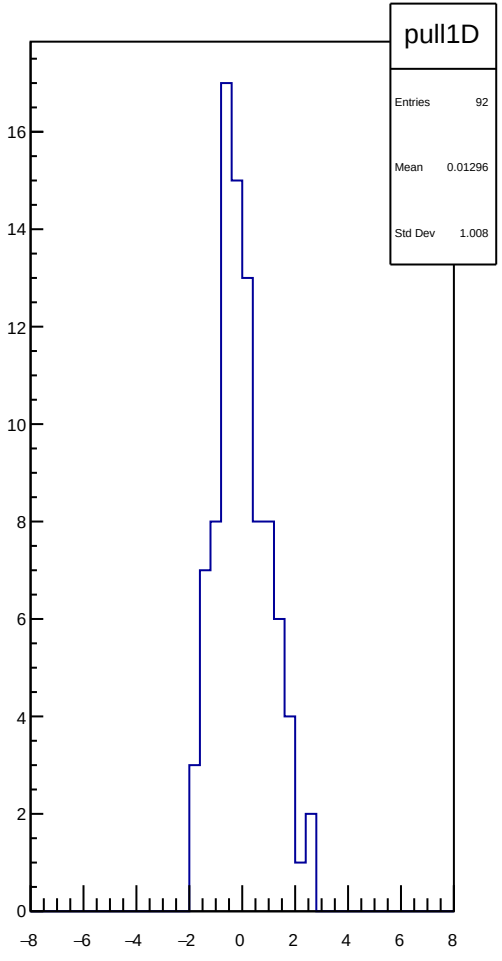

asym_sam_15_avg_rms vs run
χ² / ndf 1.382e+04 / 91
p0 308.4 ± 0.2319
380
360
340
320
300
280
260

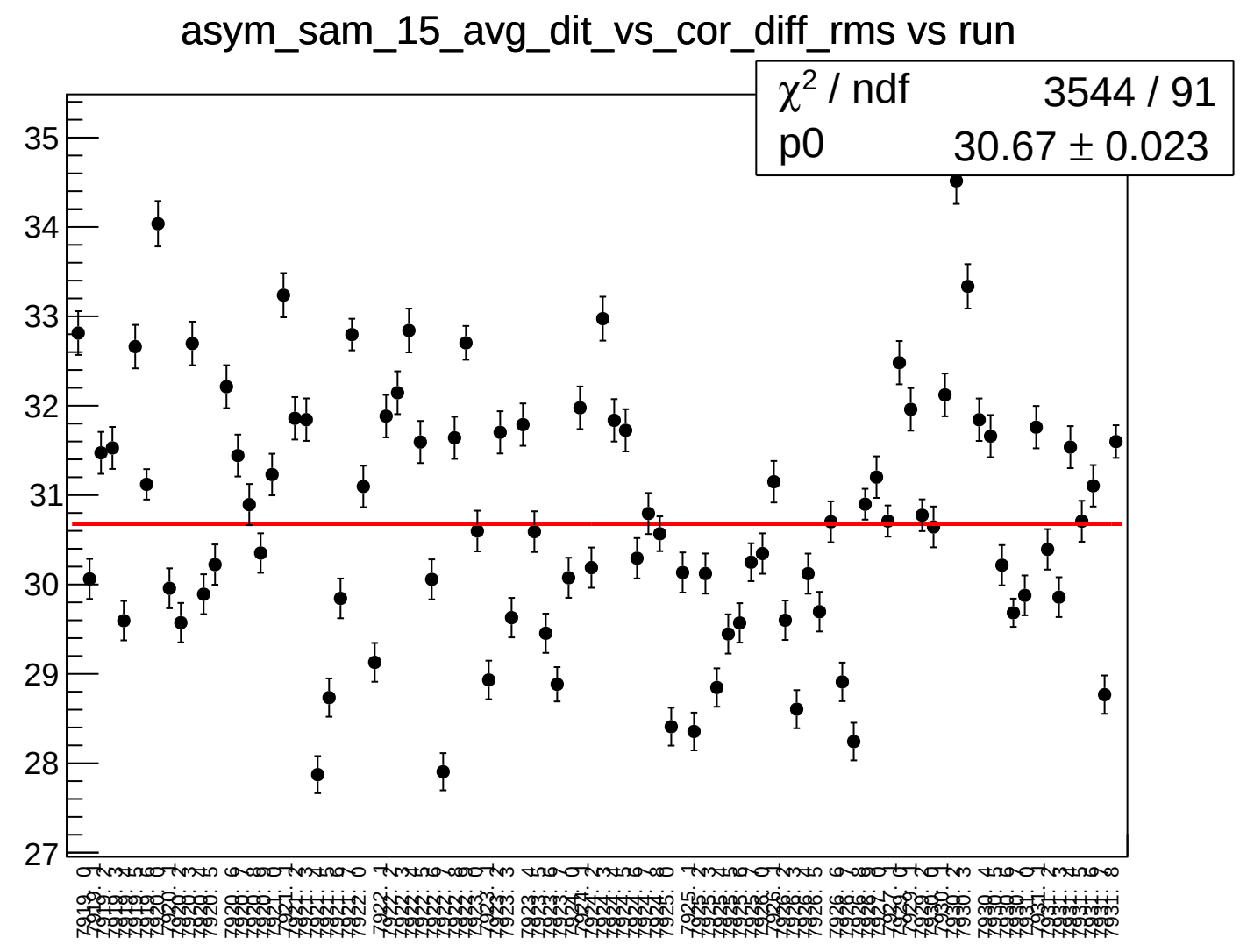

asym_sam_15_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 59.91 / 91
p0 −4.26e−14 ± 2.684e−14
pull
Entries 92
Mean 32.76
Std Dev 23.76

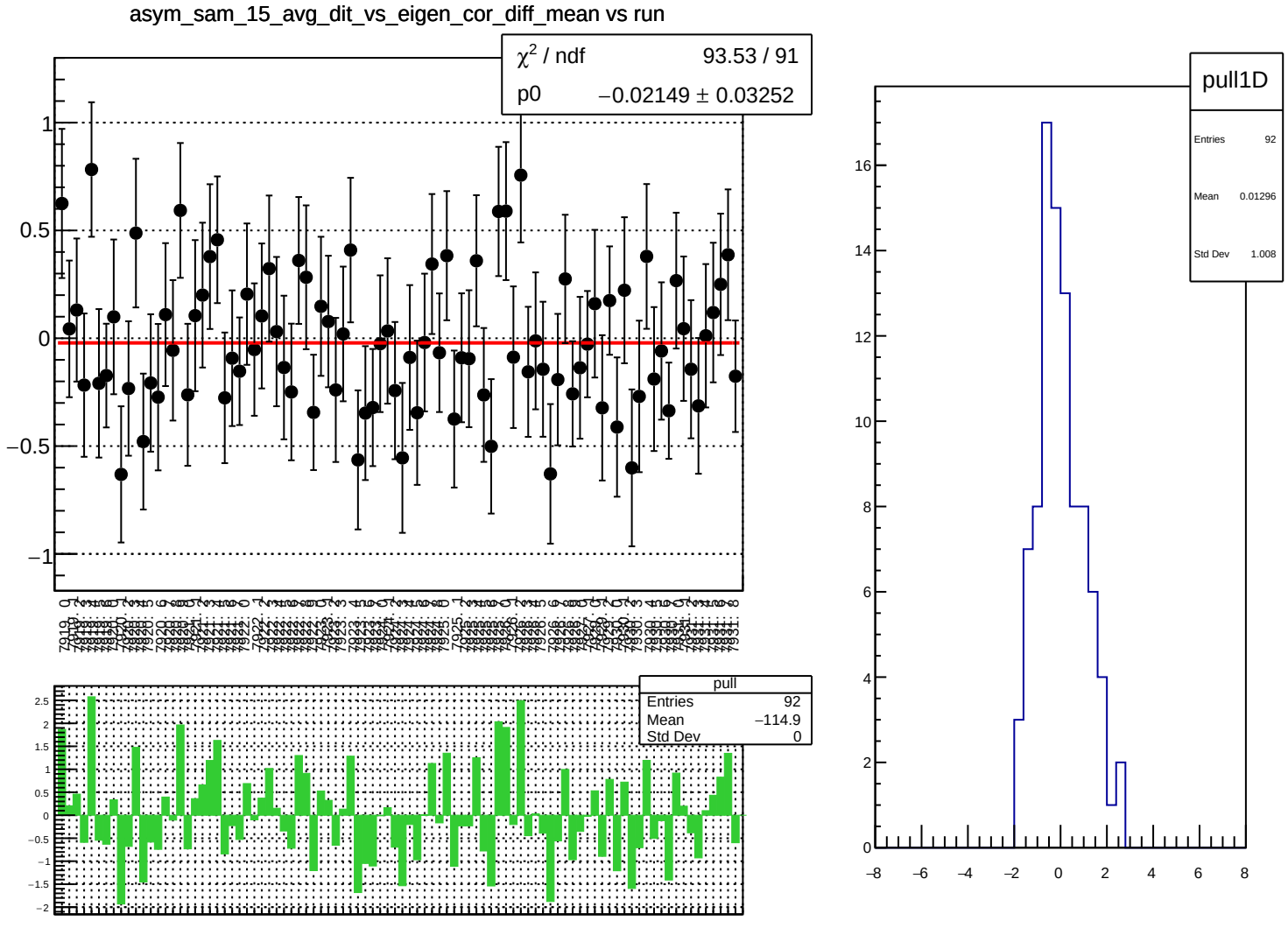

pull1D
Entries 92
Mean −0.07275
Std Dev 0.8037

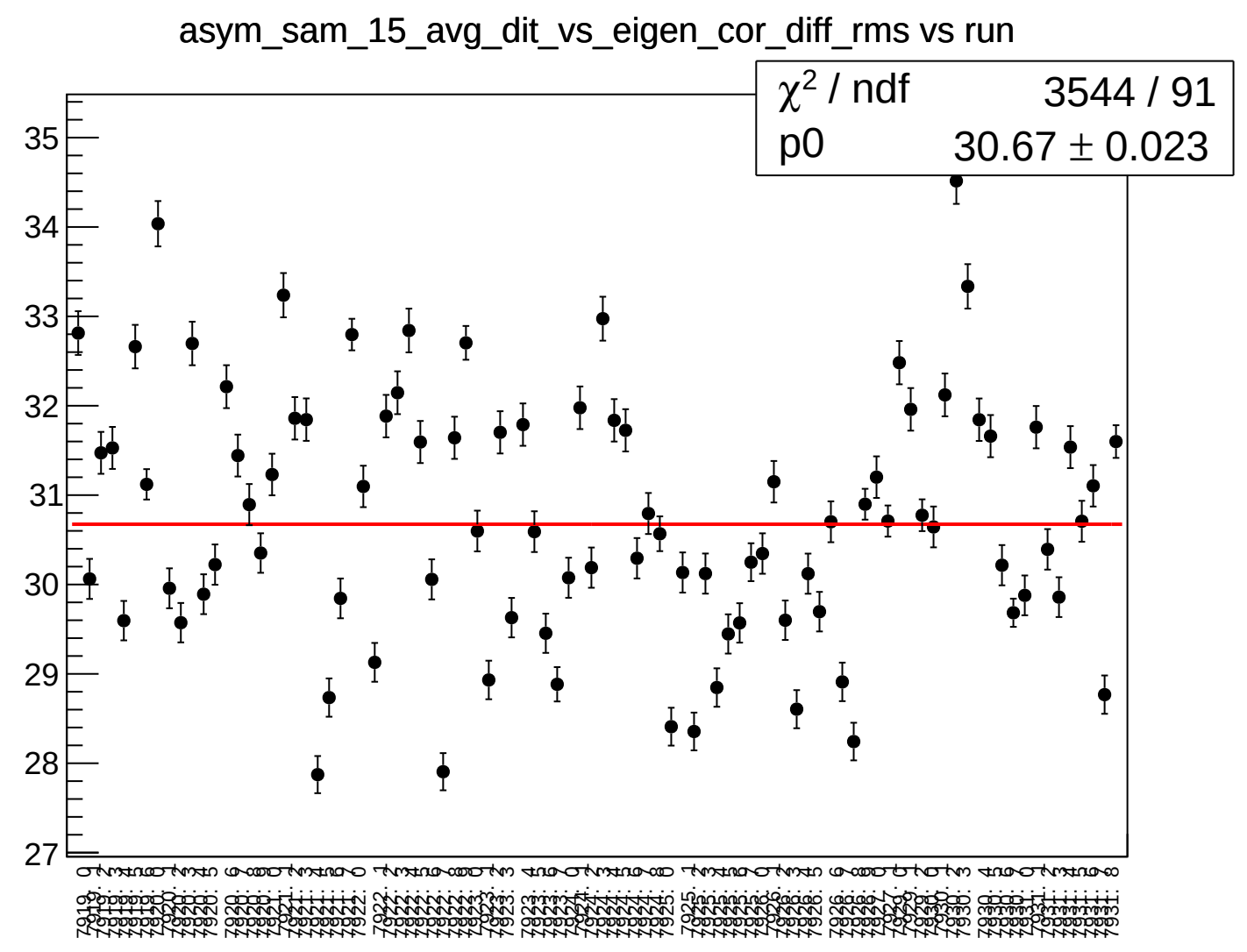

asym_sam_15_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.968e+05 / 91
p0 1.683e−11 ± 1.898e−14
0.05
0.04
0.03
0.02
0.01
0

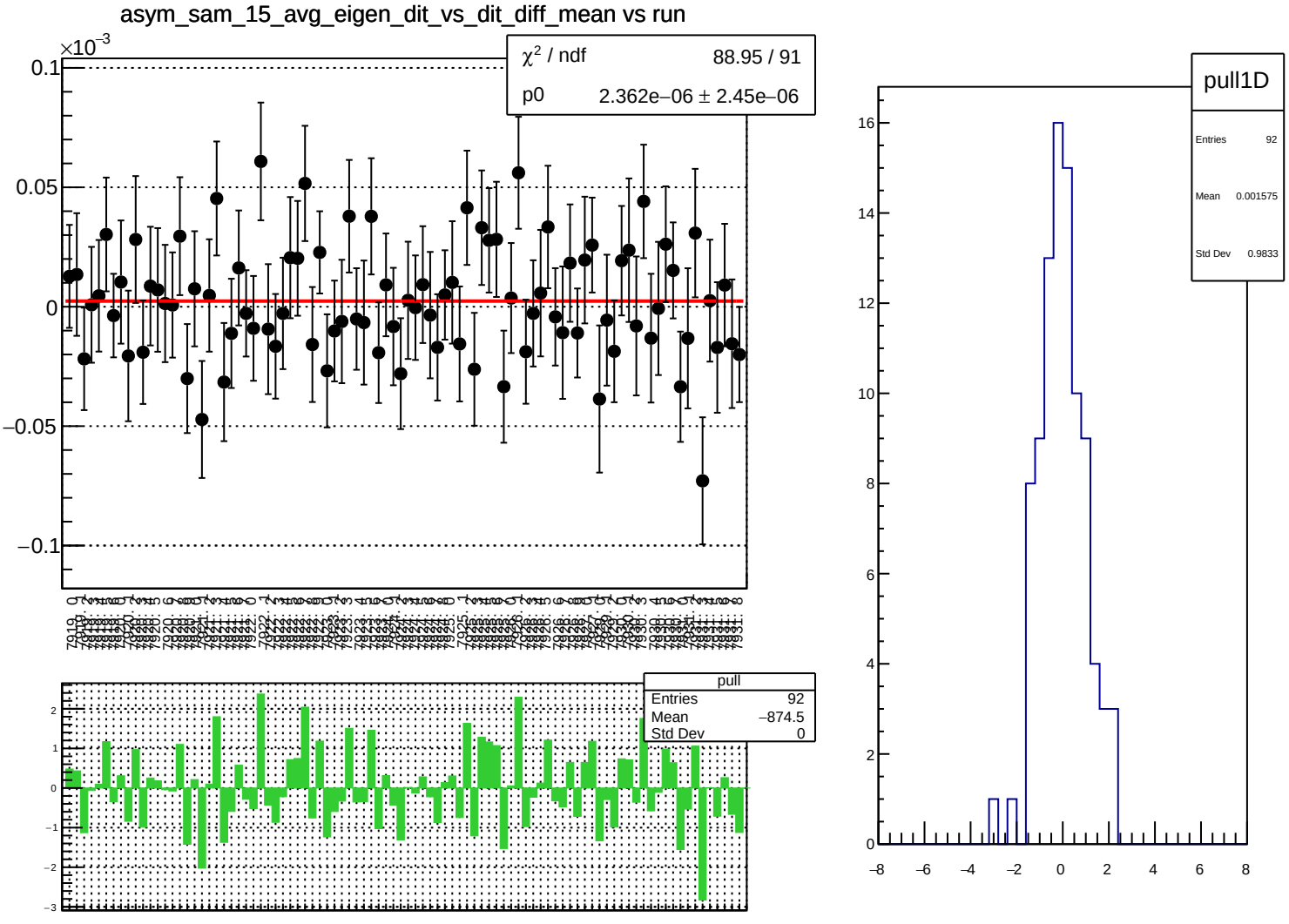

asym_sam_15_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 93.53 / 91
p0 −0.02149 ± 0.03252
pull
Entries 92
Mean −114.9
Std Dev 0

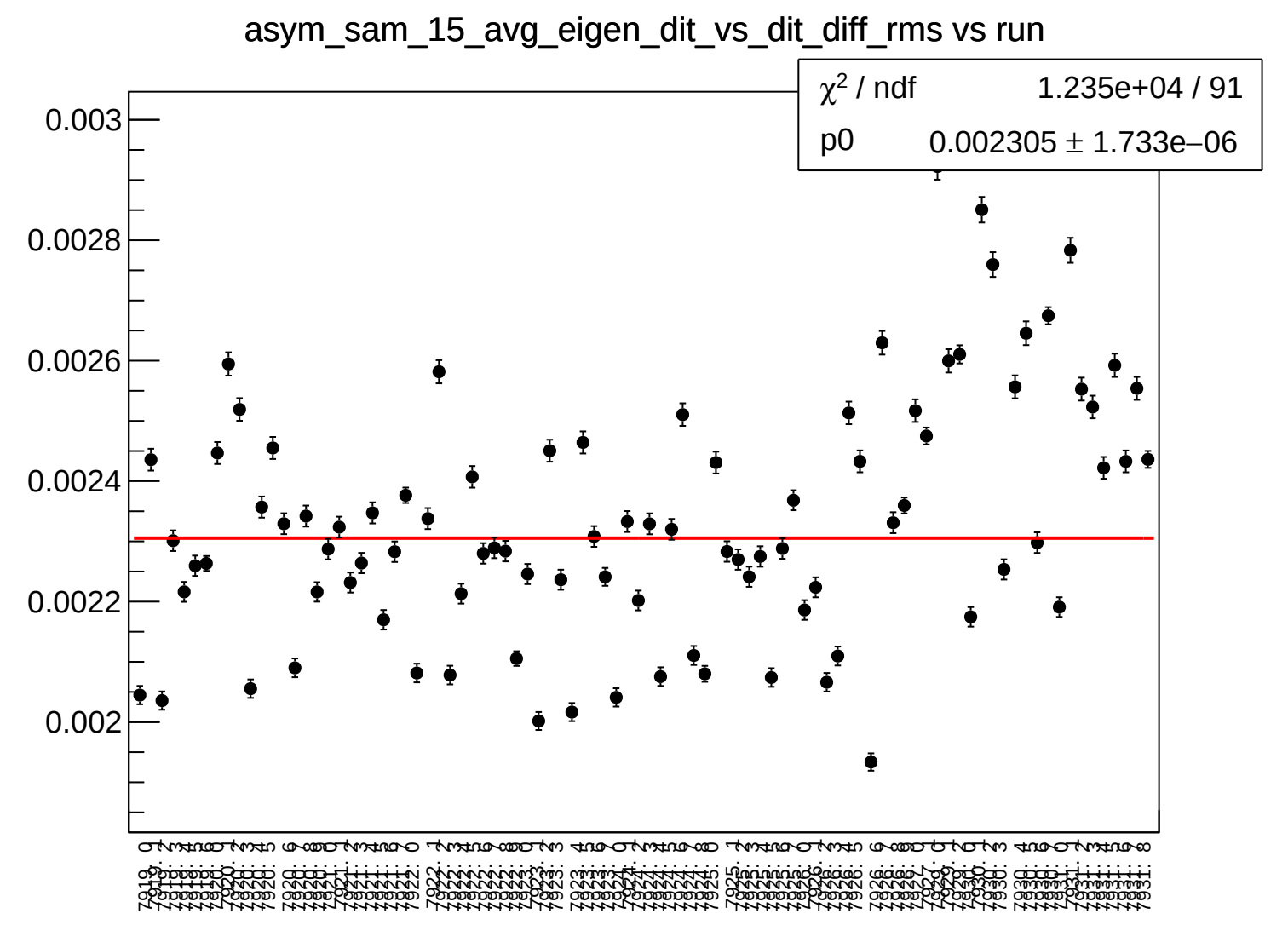

pull1D
Entries 92
Mean 0.01296
Std Dev 1.008

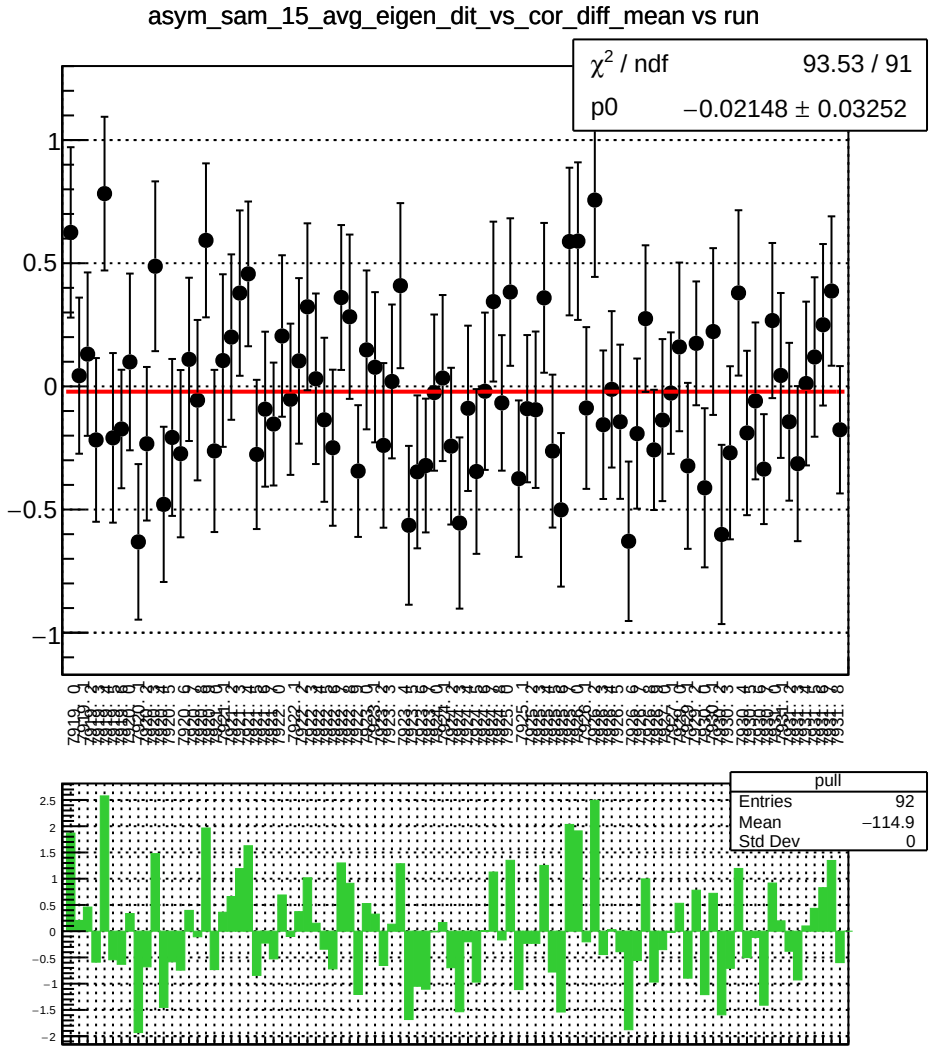

asym_sam_15_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3544 / 91
p0 30.67 ± 0.023
35
34
33
32
31
30
29
28
27

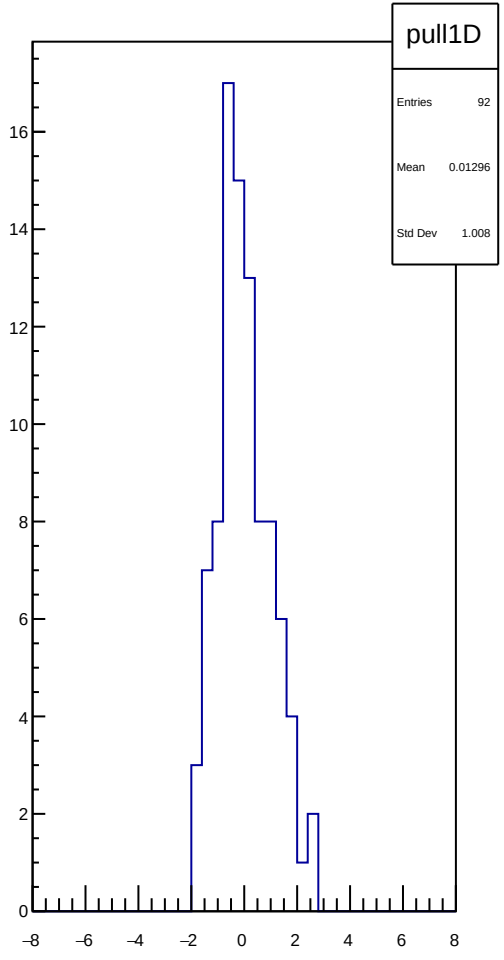

asym_sam_15_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.53 / 91
p0 −0.02149 ± 0.03252
pull
Entries 92
Mean −114.9
Std Dev 0
pull1D
Entries 92
Mean 0.01296
Std Dev 1.008

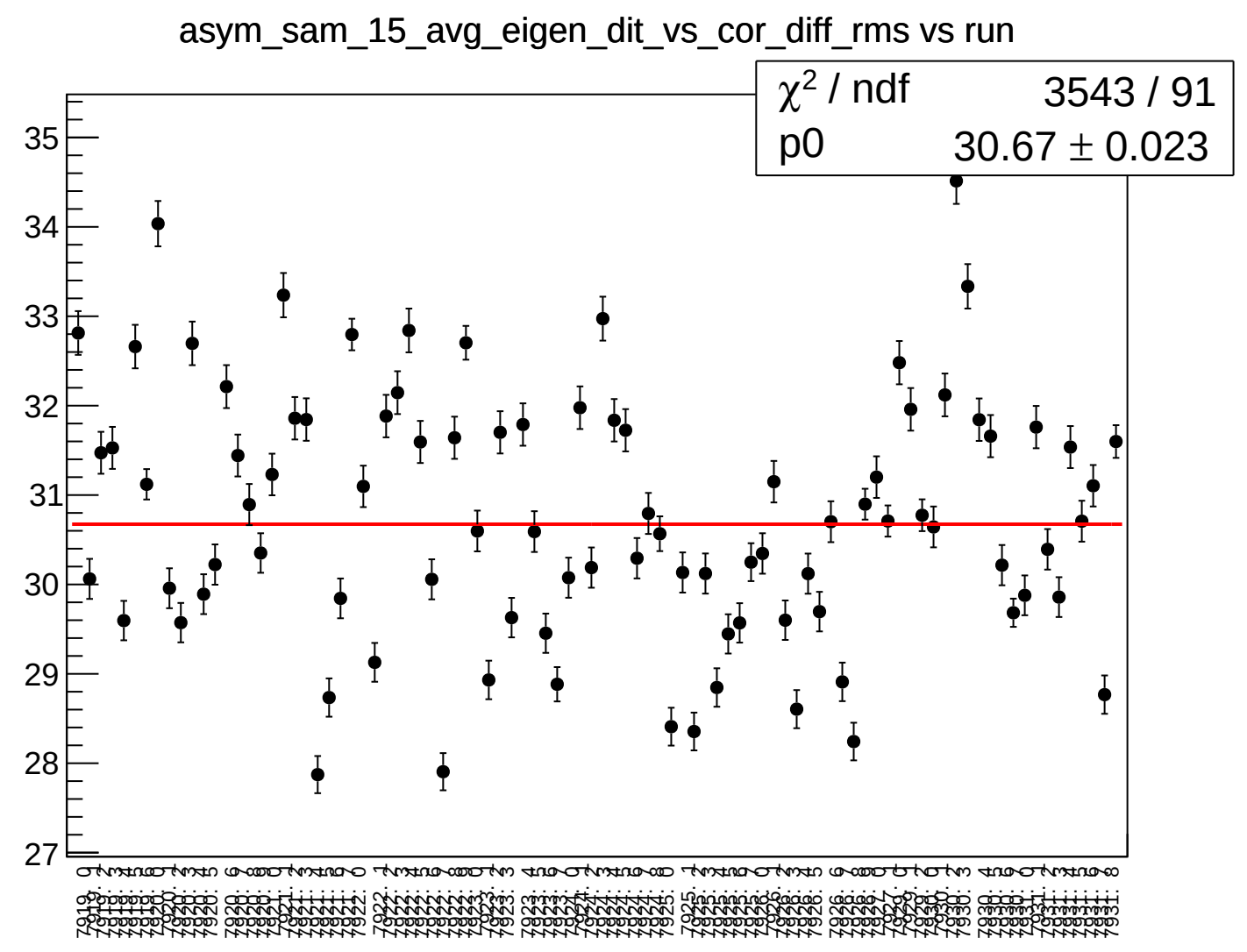

asym_sam_15_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3544 / 91
p0 30.67 ± 0.023
35
34
33
32
31
30
29
28
27

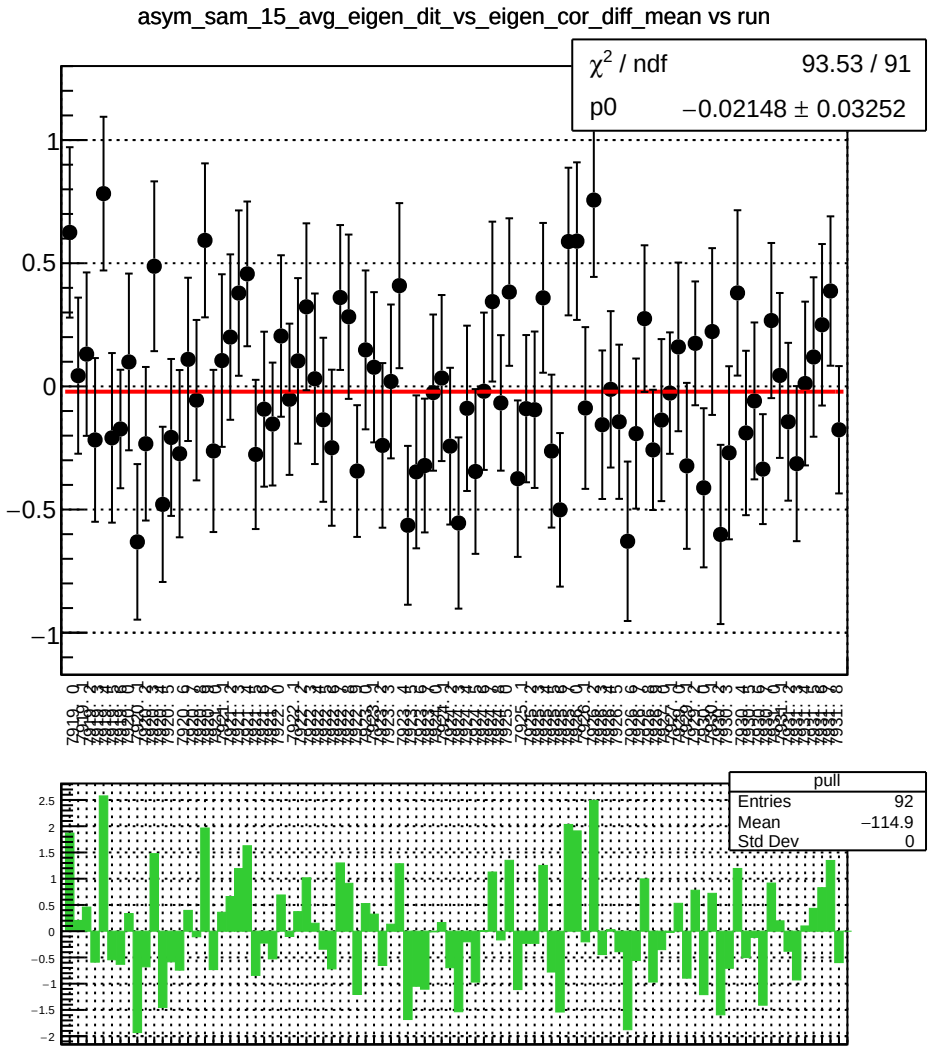

asym_sam_15_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 88.95 / 91
p0 2.362e−06 ± 2.45e−06
pull
Entries 92
Mean −874.5
Std Dev 0
pull1D
Entries 92
Mean 0.001575
Std Dev 0.9833

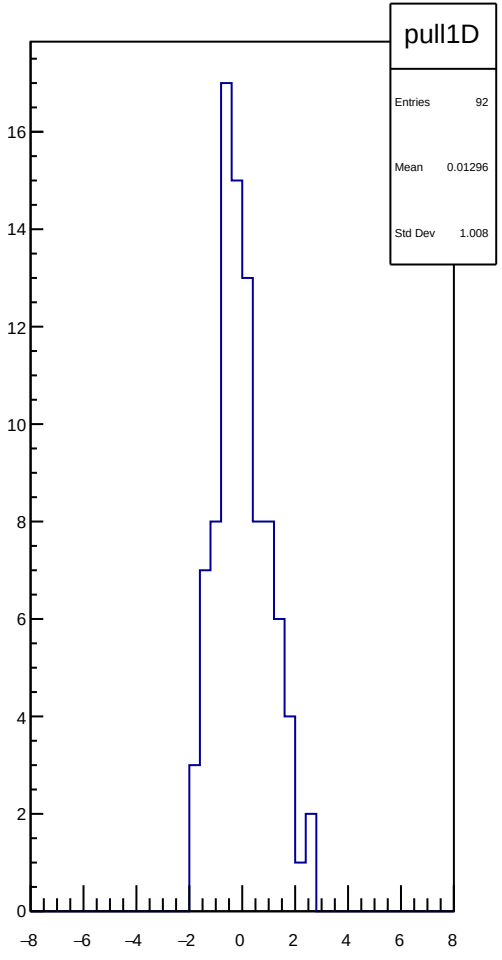

asym_sam_15_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.235e+04 / 91
p0 0.002305 ± 1.733e−06
0.003
0.0028
0.0026
0.0024
0.0022
0.002

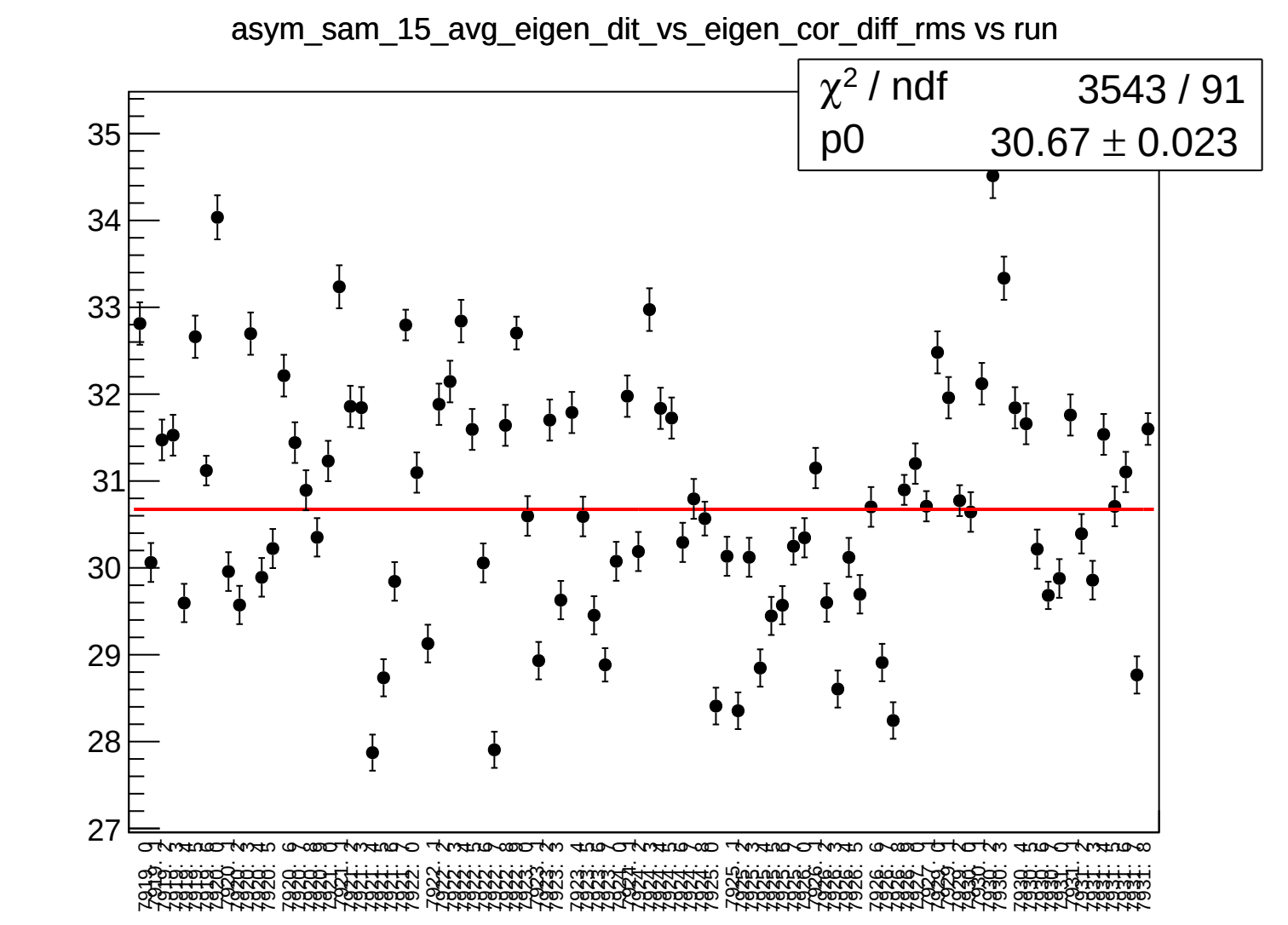

asym_sam_15_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.53 / 91
p0 −0.02148 ± 0.03252
pull
Entries 92
Mean −114.9
Std Dev 0

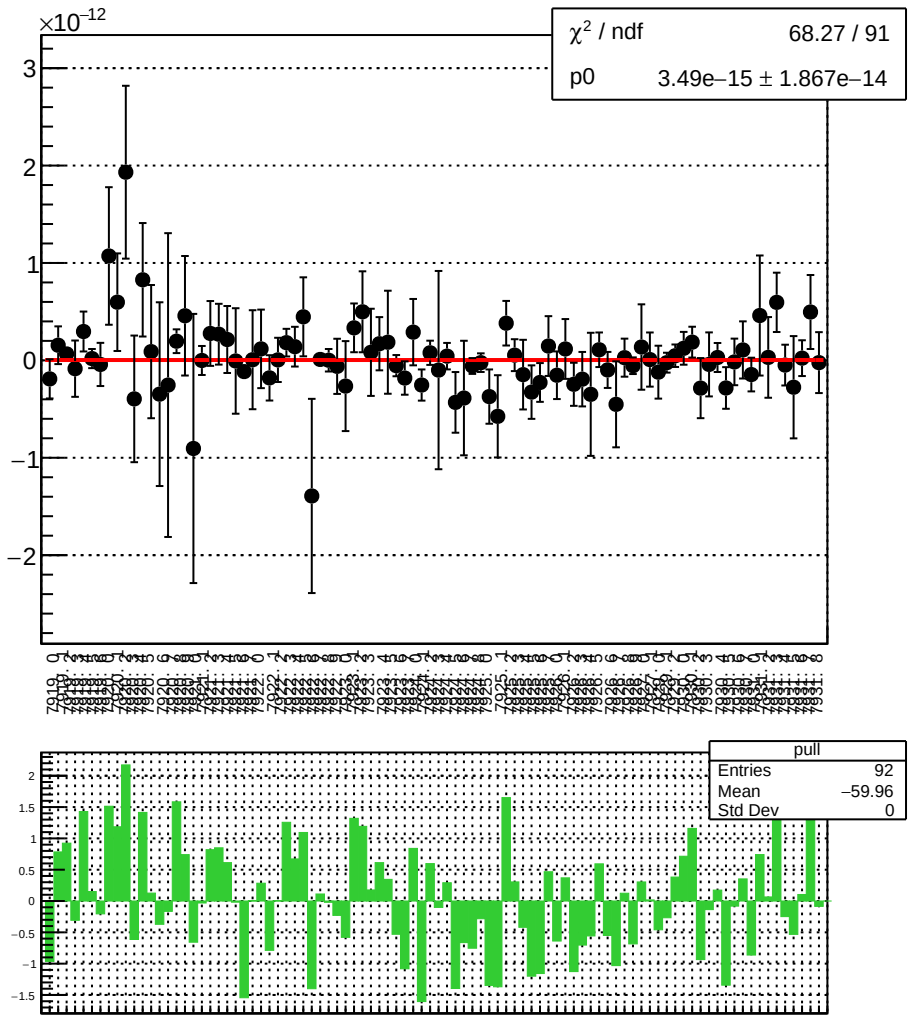

pull1D
Entries 92
Mean 0.01296
Std Dev 1.008

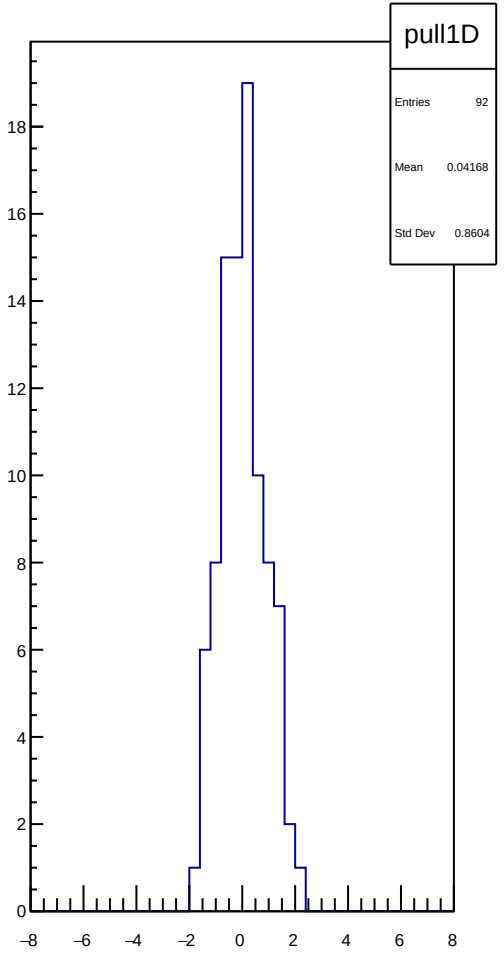

asym_sam_15_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3543 / 91
p0 30.67 ± 0.023
35
34
33
32
31
30
29
28
27

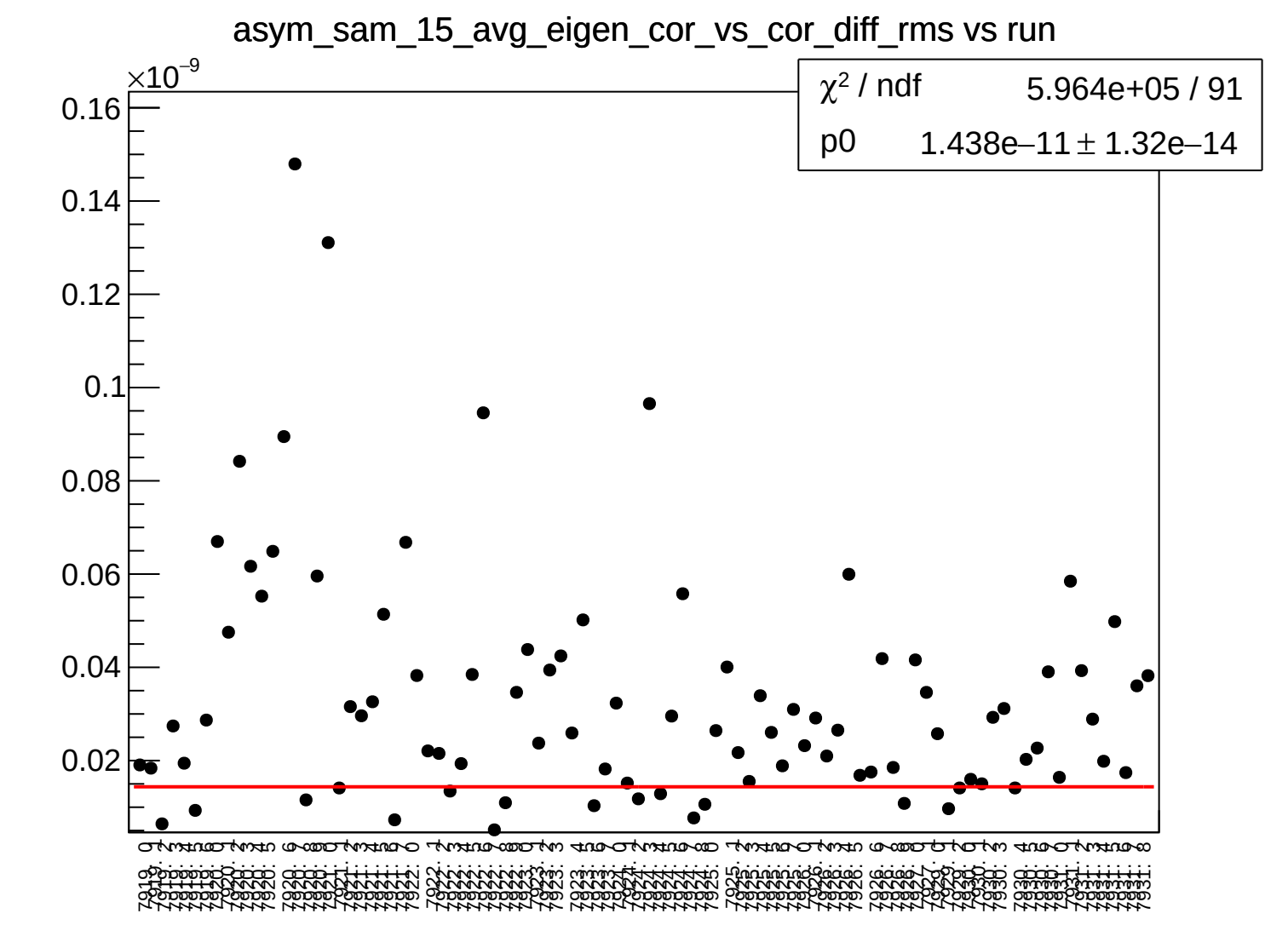

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.53 / 91
p0 −0.02148 ± 0.03252
pull
Entries 92
Mean −114.9
Std Dev 0

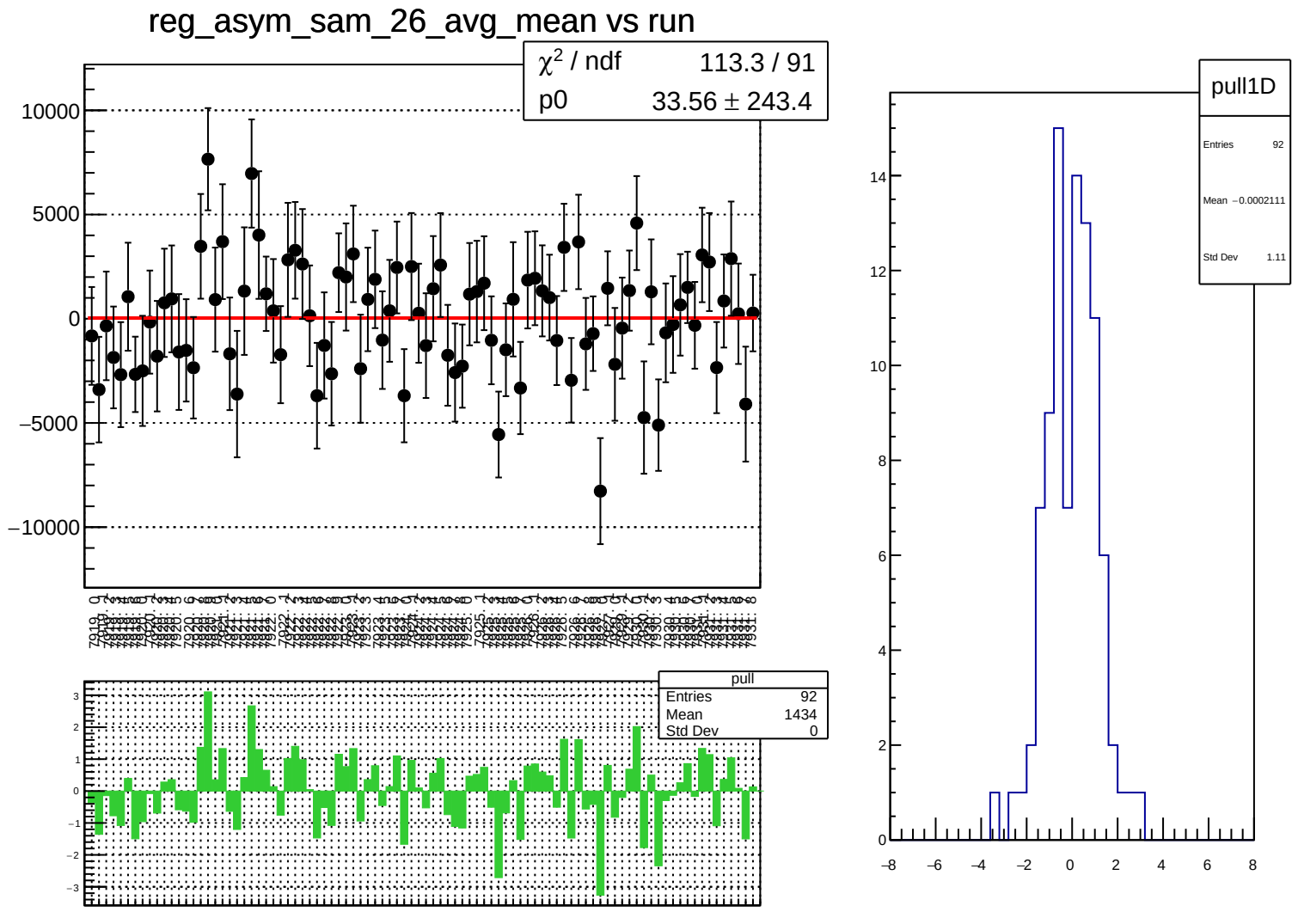

pull1D
Entries 92
Mean 0.01296
Std Dev 1.008

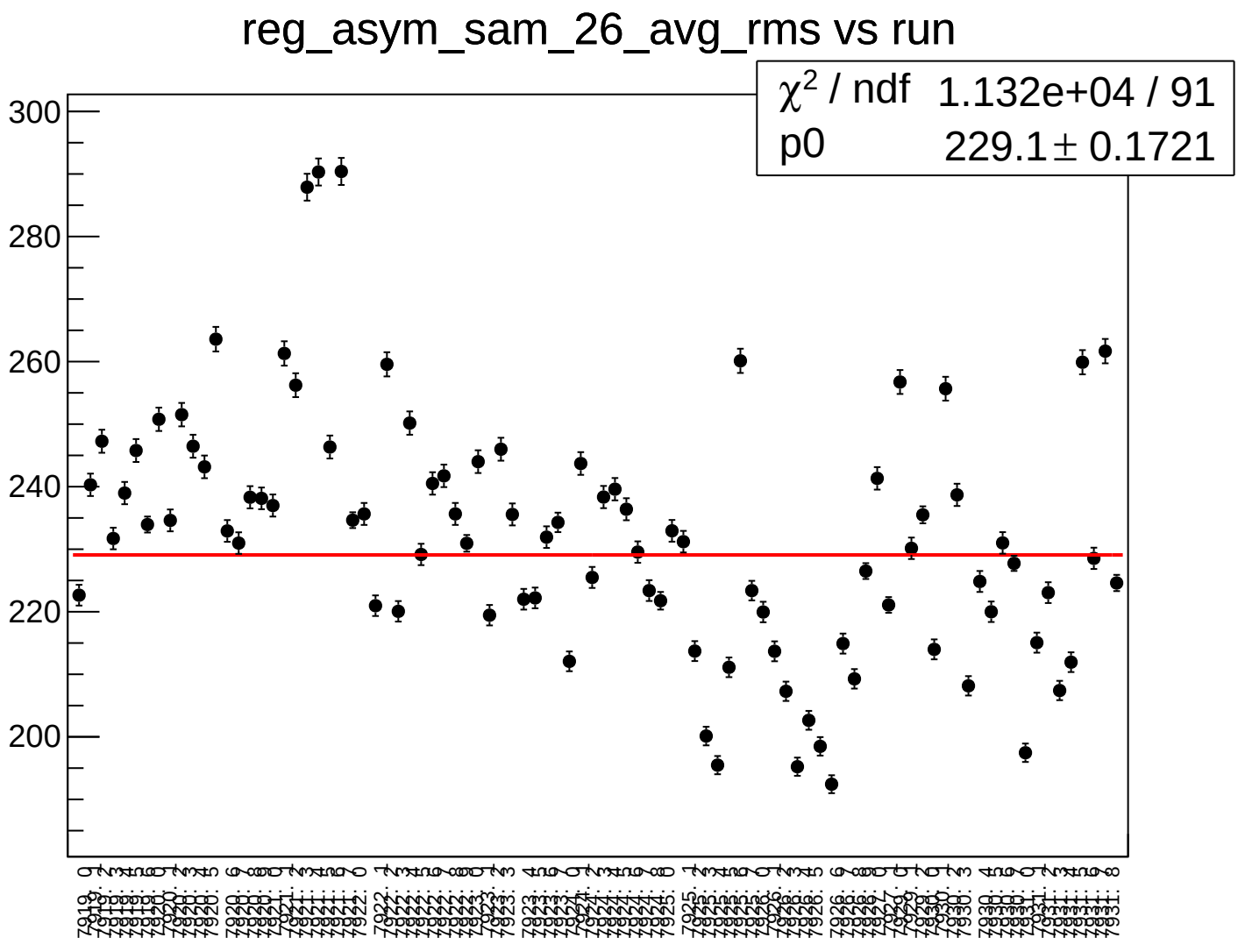

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3543 / 91
p0 30.67 ± 0.023
35
34
33
32
31
30
29
28
27

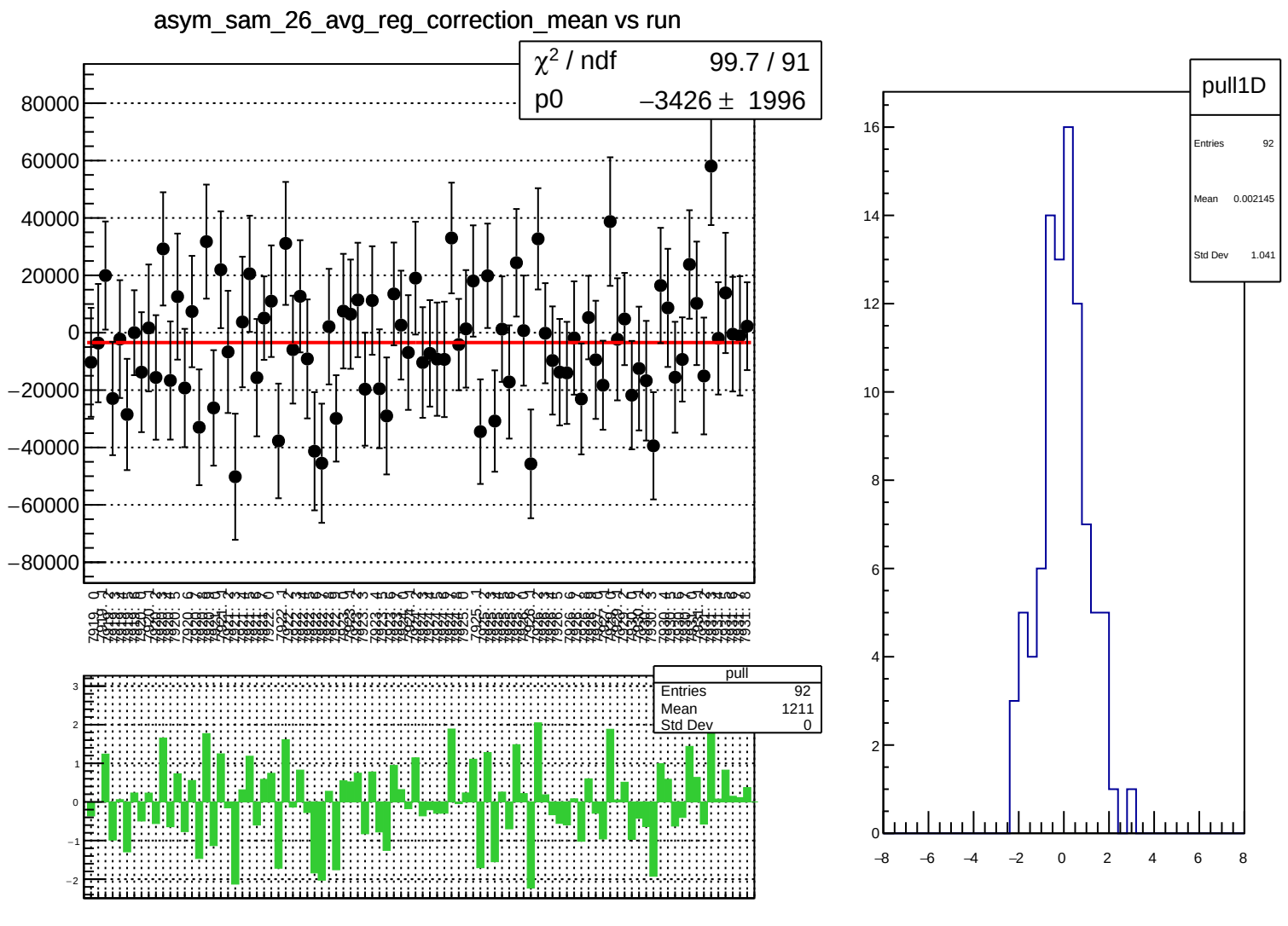

asym_sam_15_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 68.27 / 91
p0 3.49e−15 ± 1.867e−14
pull
Entries 92
Mean −59.96
Std Dev 0

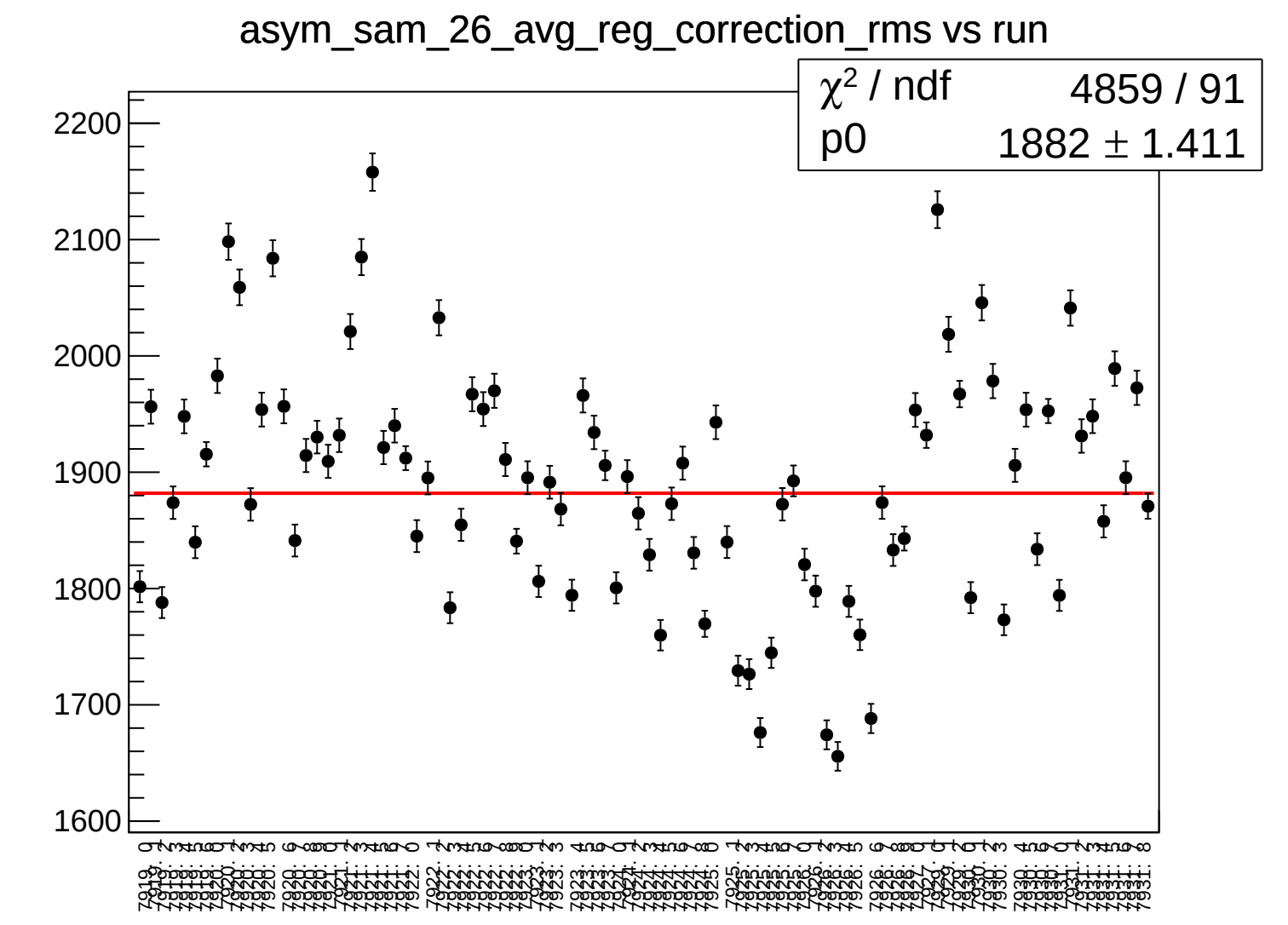

pull1D
Entries 92
Mean 0.04168
Std Dev 0.8604

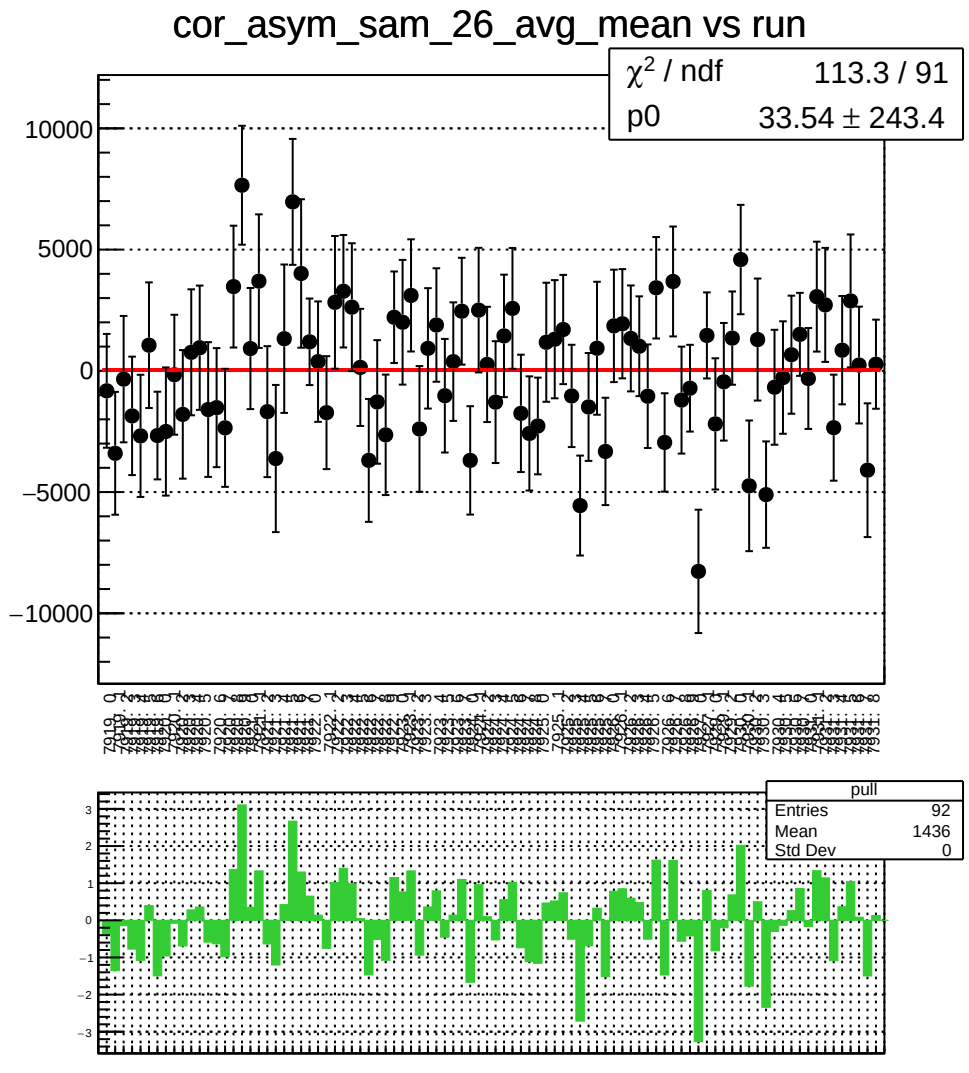

asym_sam_15_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.964e+05 / 91
p0 1.438e−11 ± 1.32e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

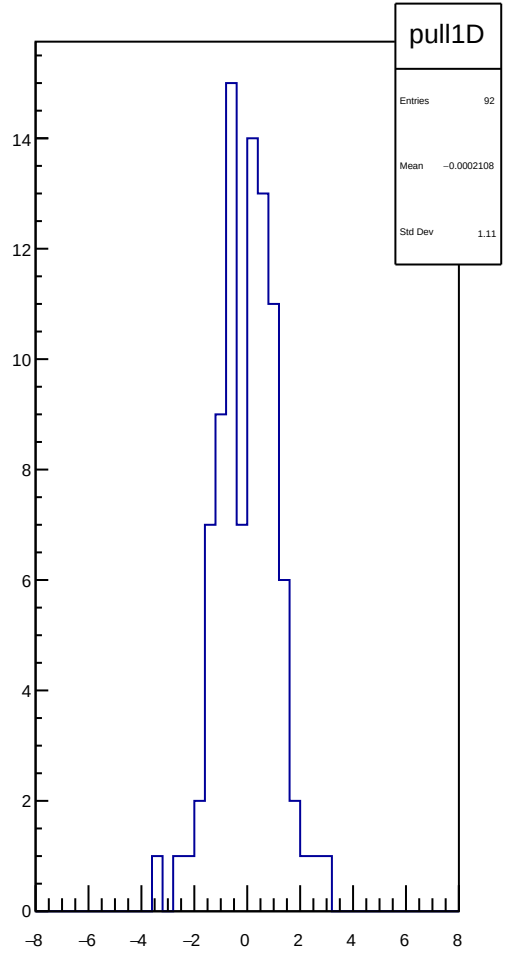

reg_asym_sam_26_avg_mean vs run
χ² / ndf 113.3 / 91
p0 33.56 ± 243.4
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 1434
Std Dev 0
pull1D
Entries 92
Mean −0.0002111
Std Dev 1.11

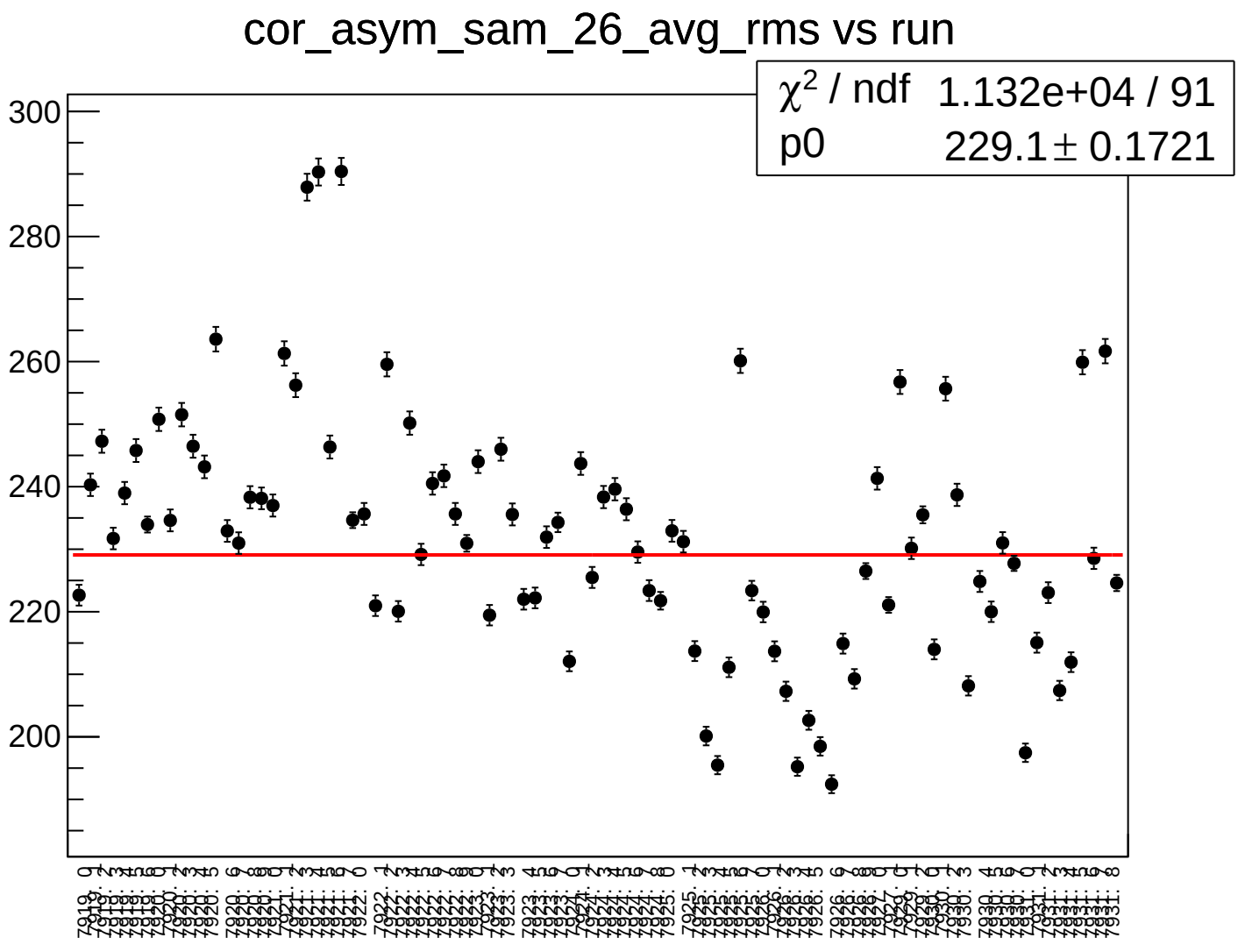

reg_asym_sam_26_avg_rms vs run
χ² / ndf 1.132e+04 / 91
p0 229.1 ± 0.1721
300
280
260
240
220
200

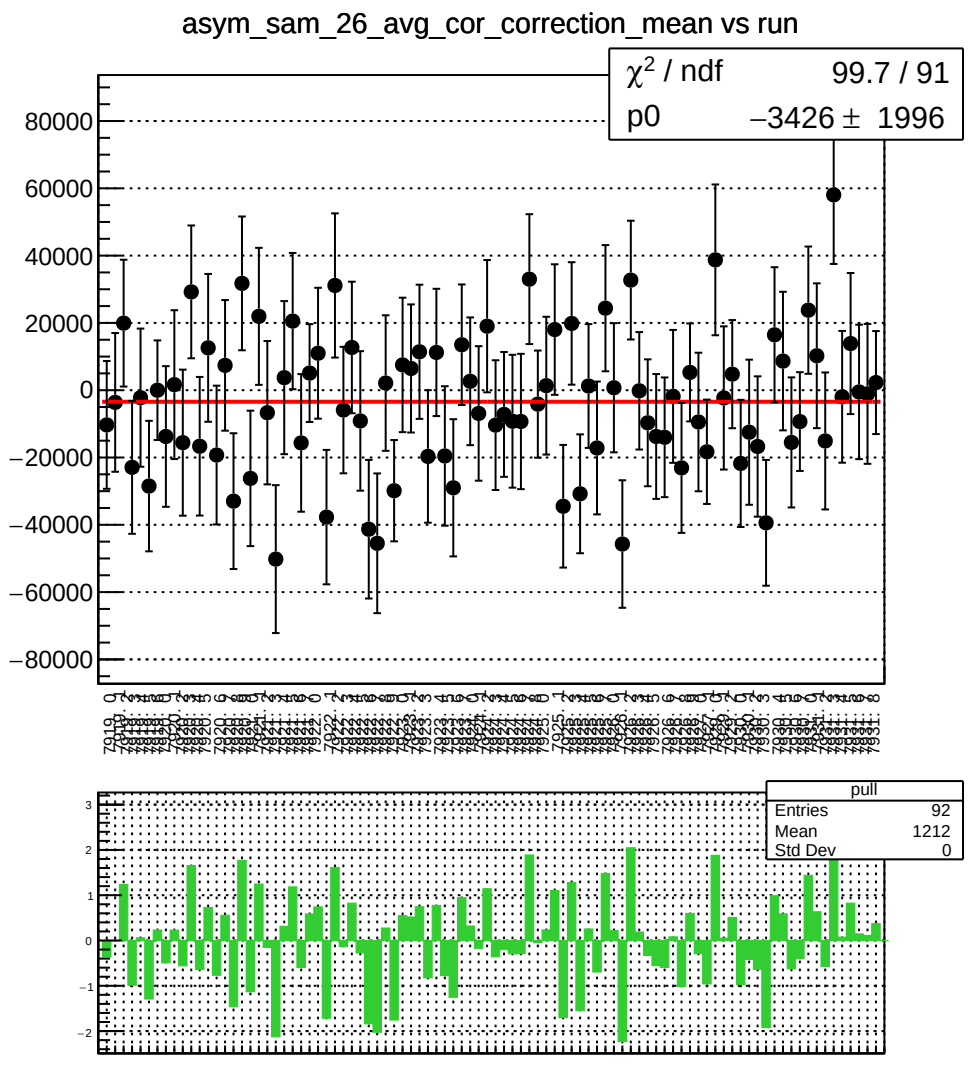

asym_sam_26_avg_reg_correction_mean vs run
χ² / ndf 99.7 / 91
p0 −3426 ± 1996
pull
Entries 92
Mean 1211
Std Dev 0
pull1D
Entries 92
Mean 0.002145
Std Dev 1.041

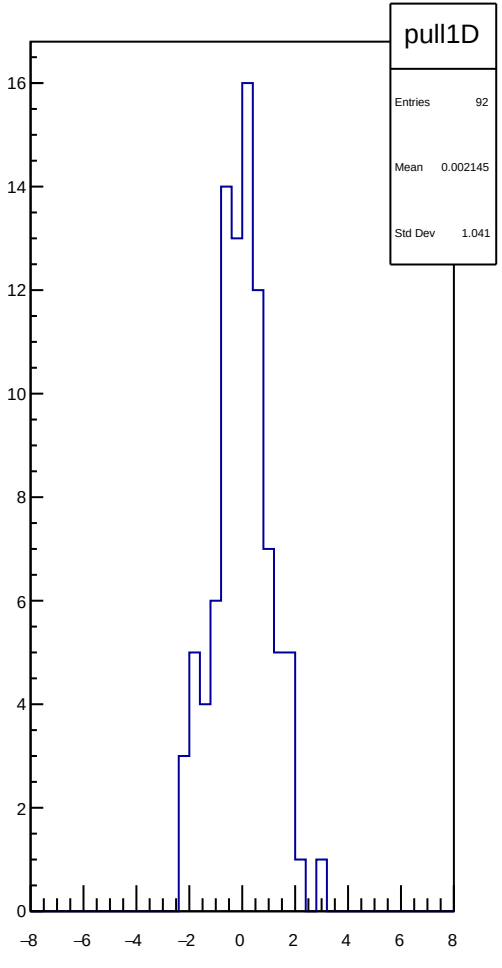

asym_sam_26_avg_reg_correction_rms vs run
χ² / ndf 4859 / 91
p0 1882 ± 1.411
2200
2100
2000
1900
1800
1700
1600

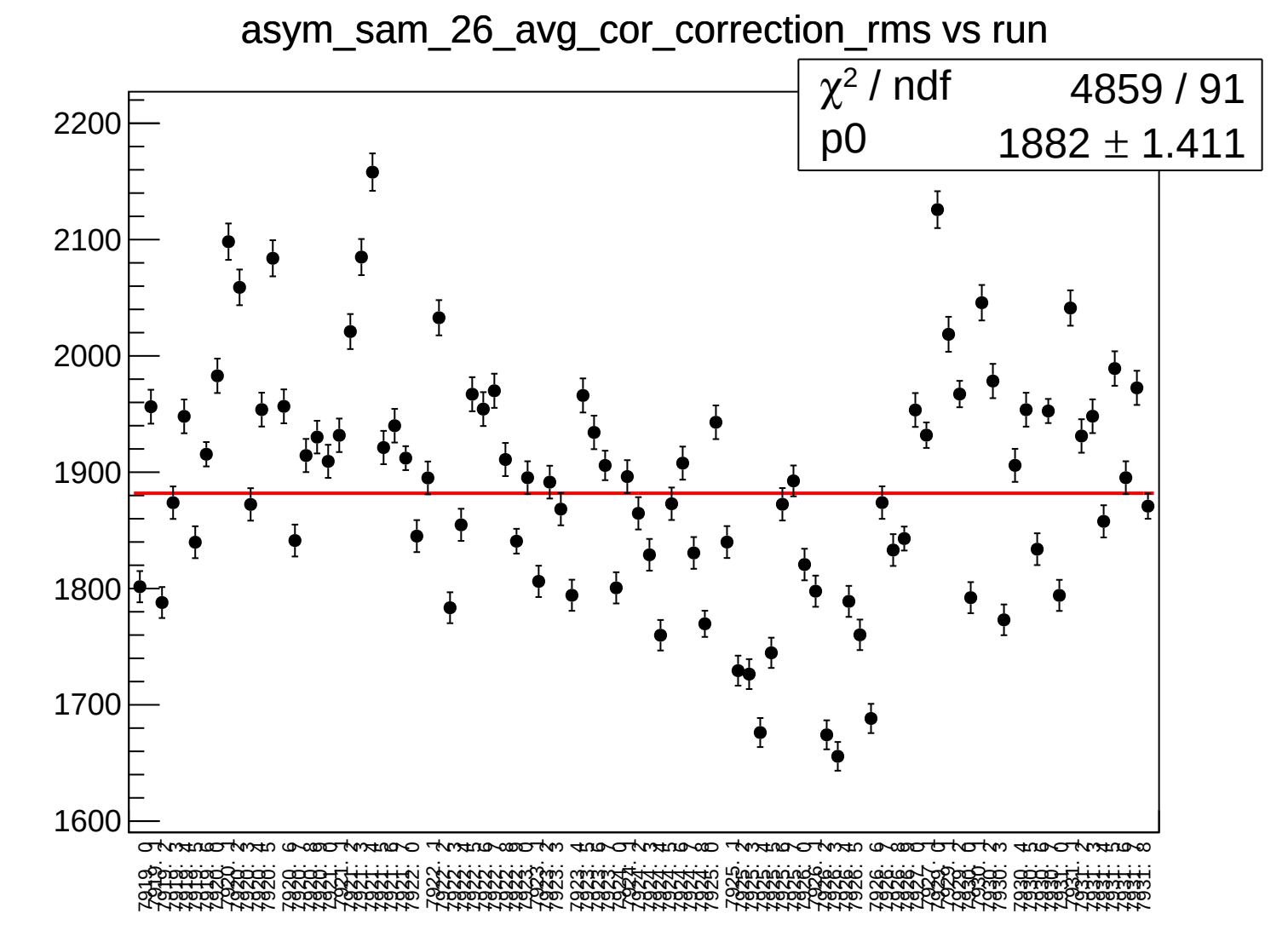

cor_asym_sam_26_avg_mean vs run
χ² / ndf 113.3 / 91
p0 33.54 ± 243.4
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 1436
Std Dev 0
3
2
1
0
−1
−2
−3

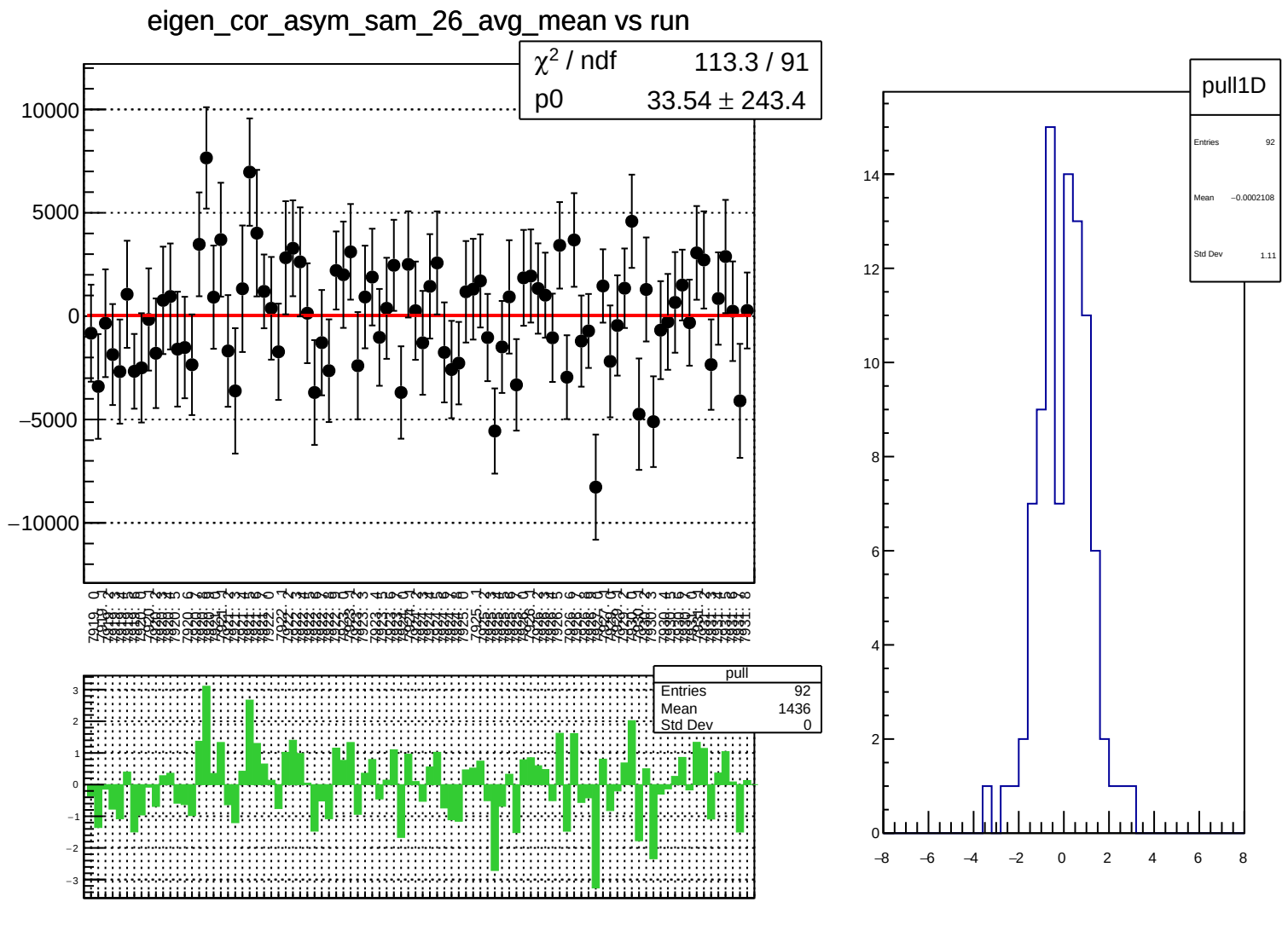

pull1D
Entries 92
Mean −0.0002108
Std Dev 1.11
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

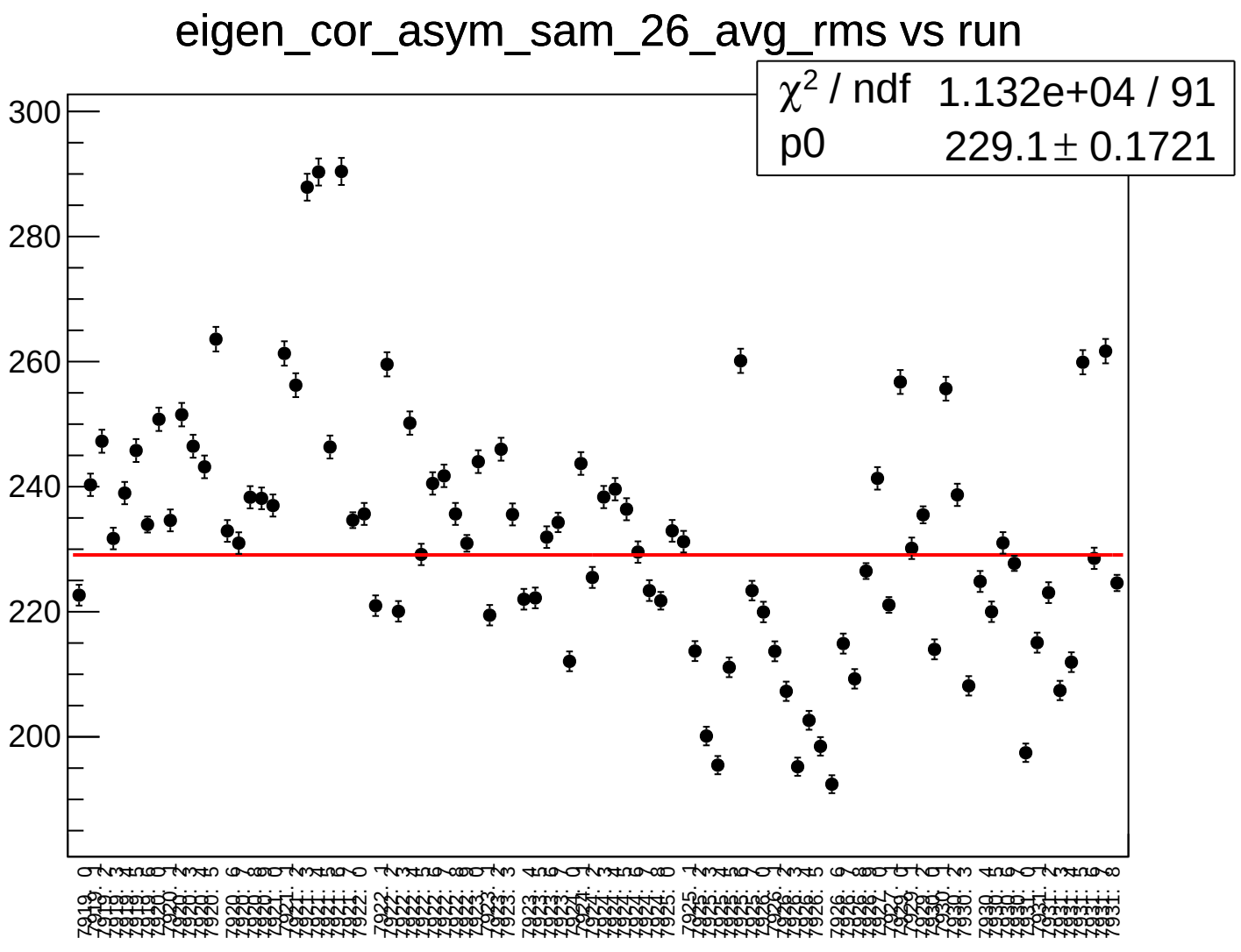

cor_asym_sam_26_avg_rms vs run
χ² / ndf 1.132e+04 / 91
p0 229.1 ± 0.1721
300
280
260
240
220
200

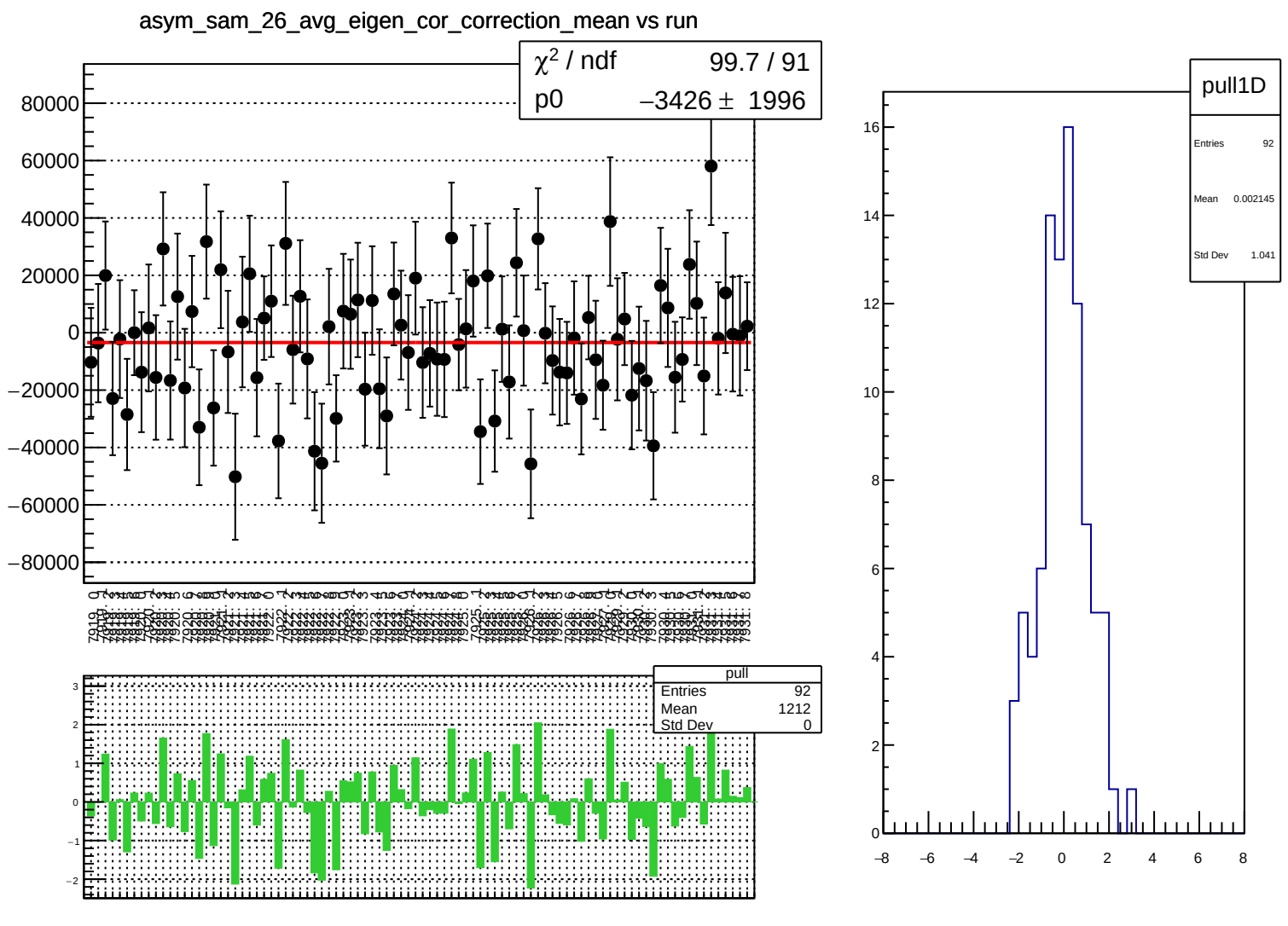

asym_sam_26_avg_cor_correction_mean vs run
χ² / ndf 99.7 / 91
p0 −3426 ± 1996
pull
Entries 92
Mean 1212
Std Dev 0

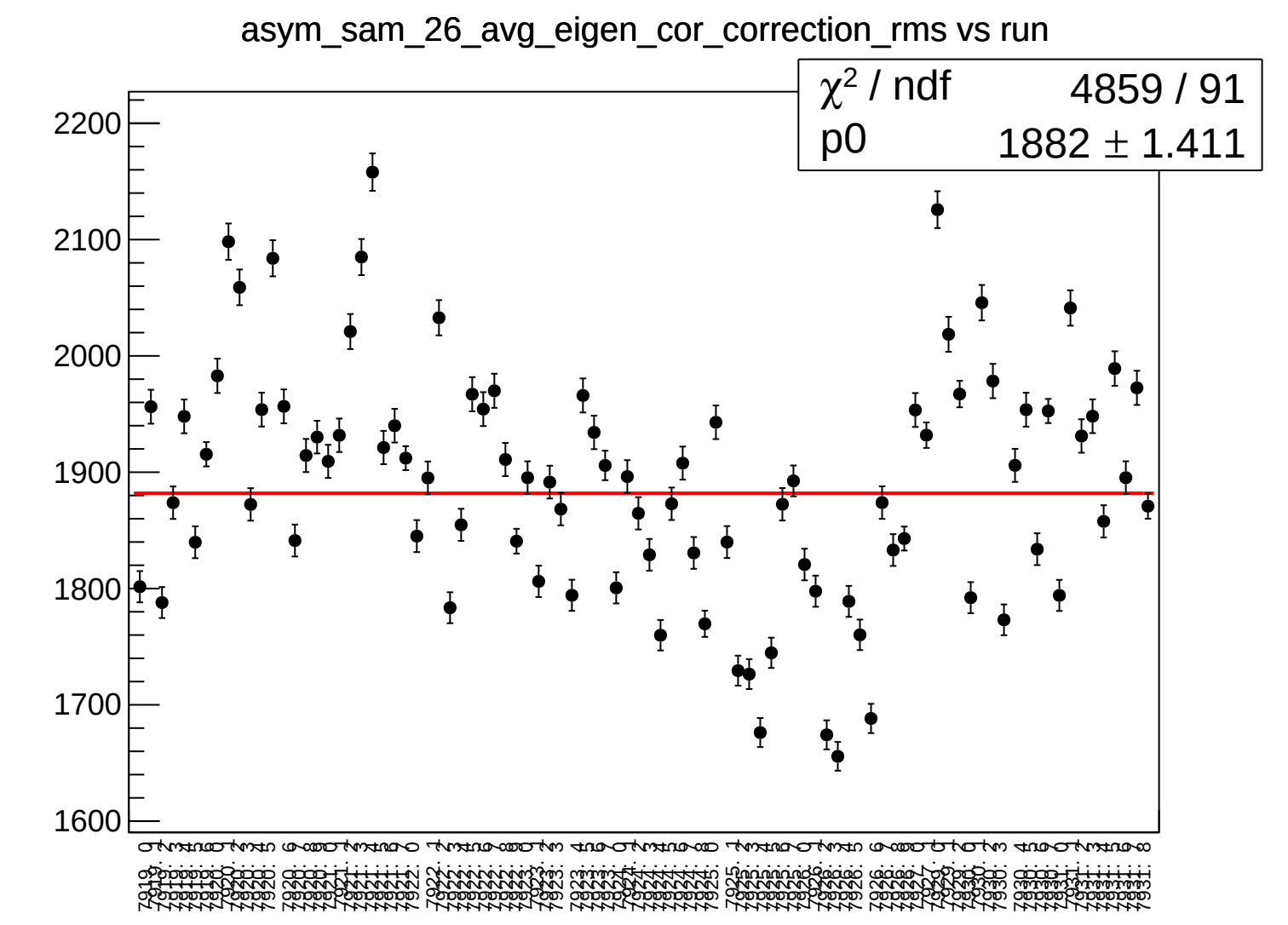

pull1D
Entries 92
Mean 0.002145
Std Dev 1.041

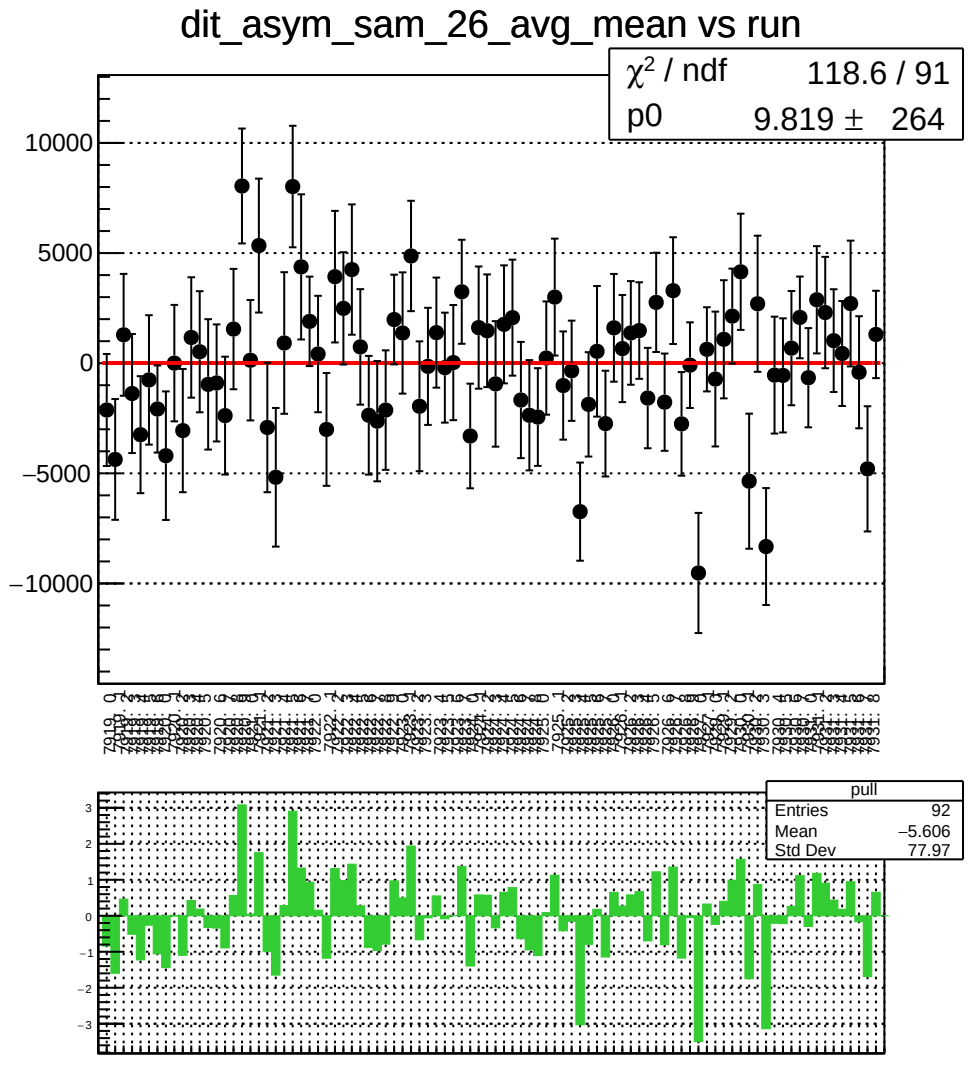

asym_sam_26_avg_cor_correction_rms vs run
χ² / ndf 4859 / 91
p0 1882 ± 1.411
2200
2100
2000
1900
1800
1700
1600

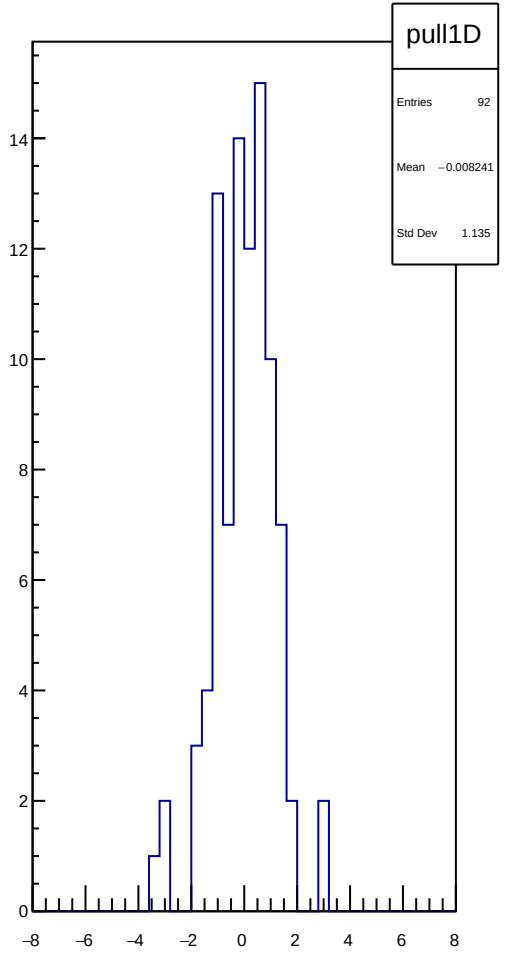

eigen_cor_asym_sam_26_avg_mean vs run
χ² / ndf 113.3 / 91
p0 33.54 ± 243.4
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 1436
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.0002108
Std Dev 1.11
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

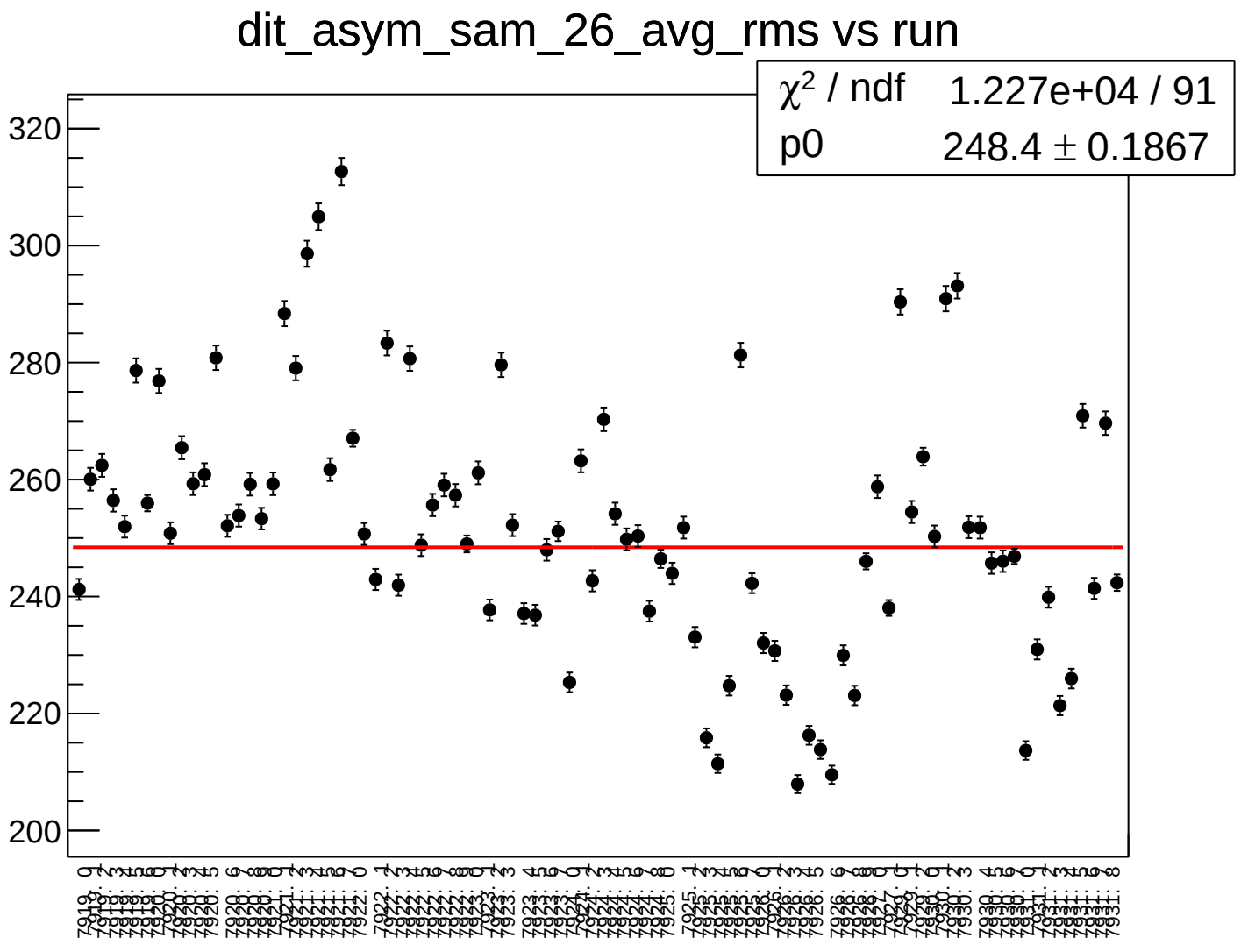

eigen_cor_asym_sam_26_avg_rms vs run
χ² / ndf 1.132e+04 / 91
p0 229.1 ± 0.1721
300
280
260
240
220
200

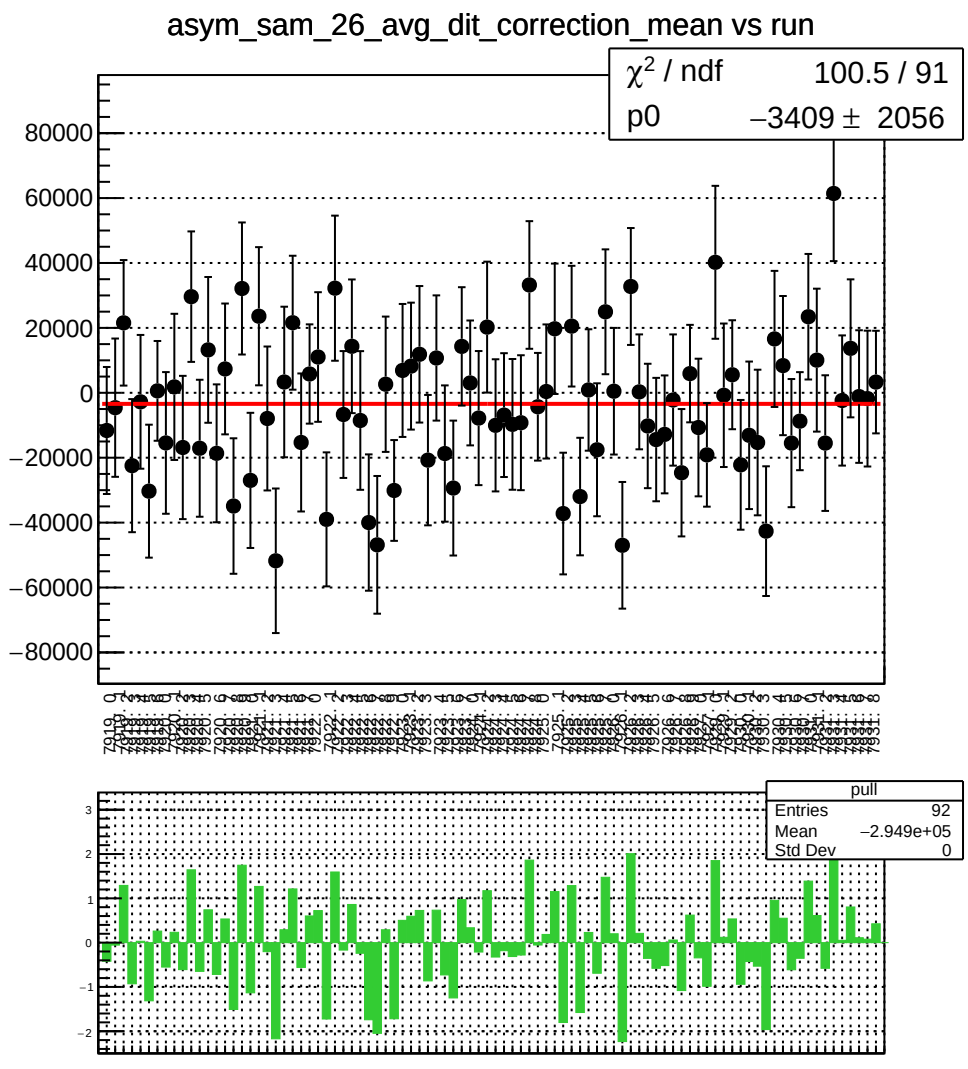

asym_sam_26_avg_eigen_cor_correction_mean vs run
χ² / ndf 99.7 / 91
p0 −3426 ± 1996
pull
Entries 92
Mean 1212
Std Dev 0
pull1D
Entries 92
Mean 0.002145
Std Dev 1.041

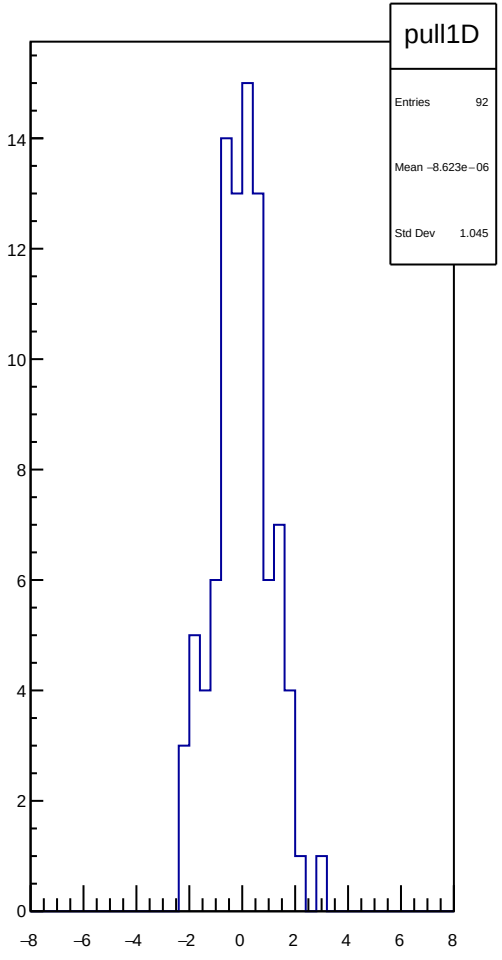

asym_sam_26_avg_eigen_cor_correction_rms vs run
χ² / ndf 4859 / 91
p0 1882 ± 1.411
2200
2100
2000
1900
1800
1700
1600

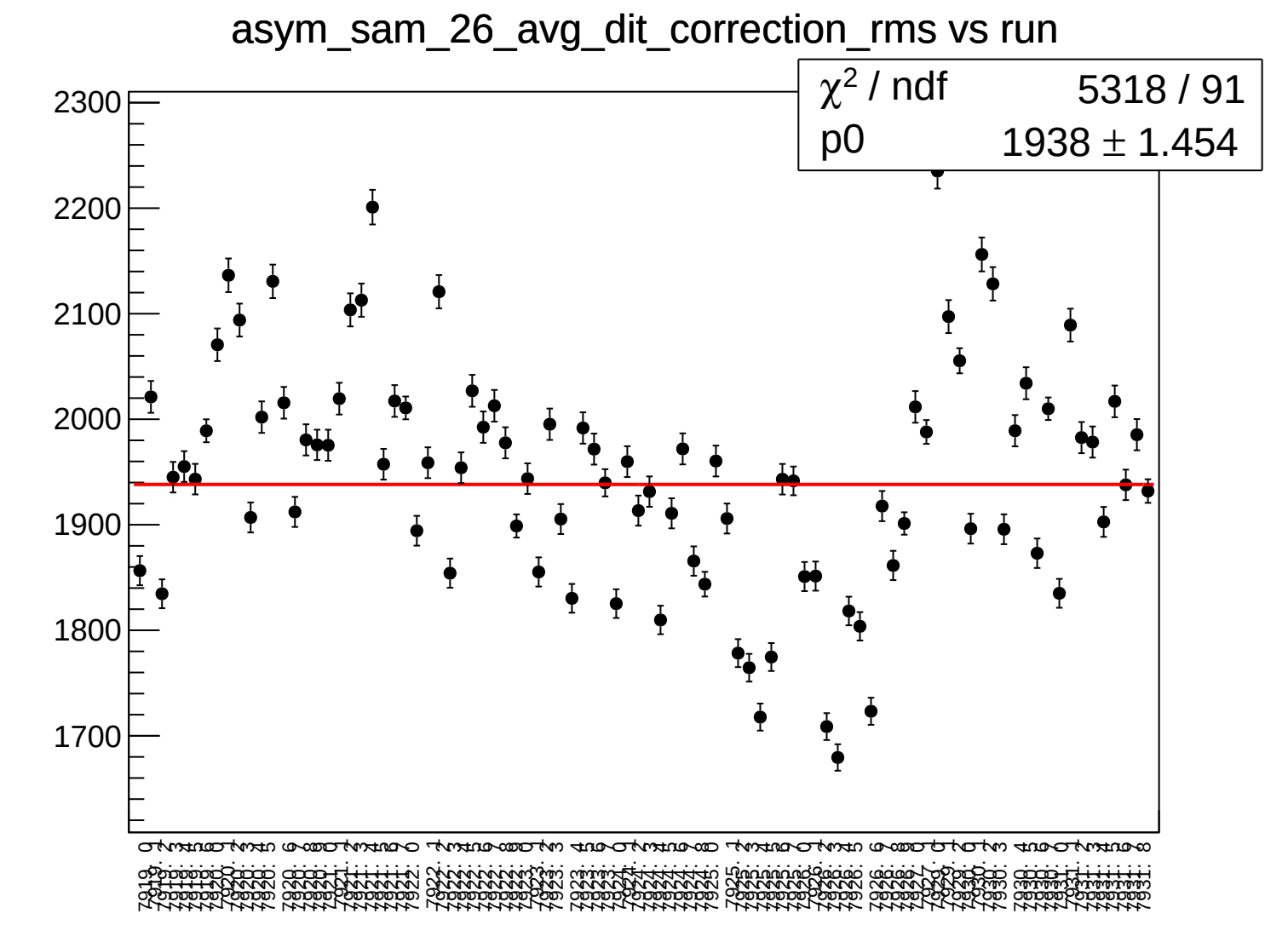

dit_asym_sam_26_avg_mean vs run
χ² / ndf 118.6 / 91
p0 9.819 ± 264
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −5.606
Std Dev 77.97
3
2
1
0
−1
−2
−3

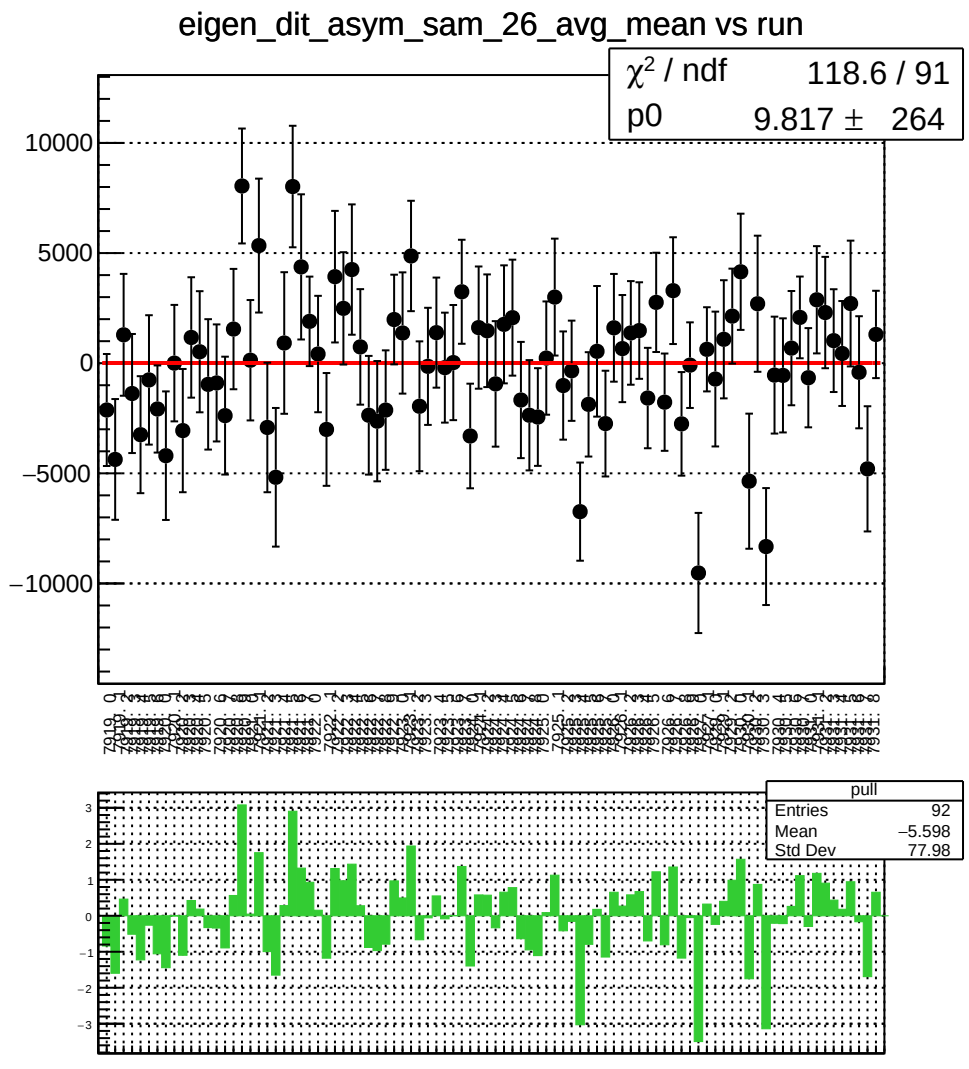

pull1D
Entries 92
Mean −0.008241
Std Dev 1.135
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

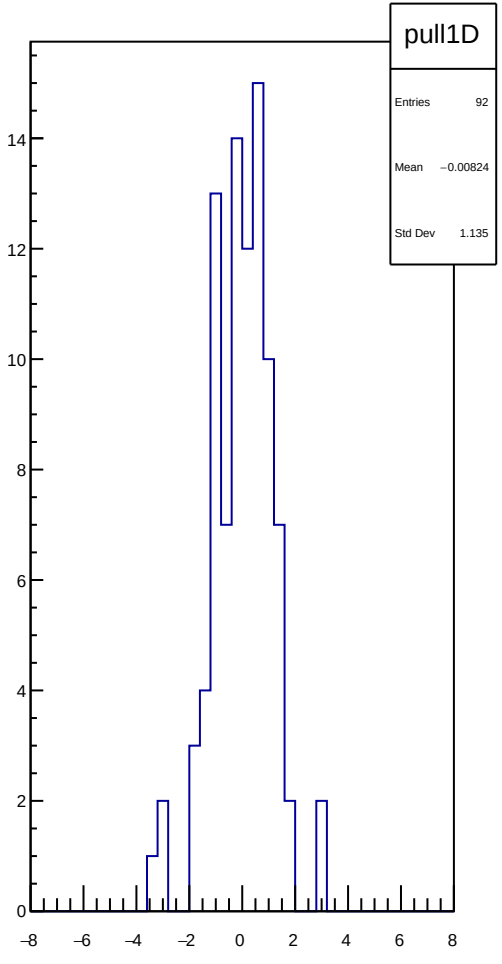

dit_asym_sam_26_avg_rms vs run
χ² / ndf 1.227e+04 / 91
p0 248.4 ± 0.1867
320
300
280
260
240
220
200

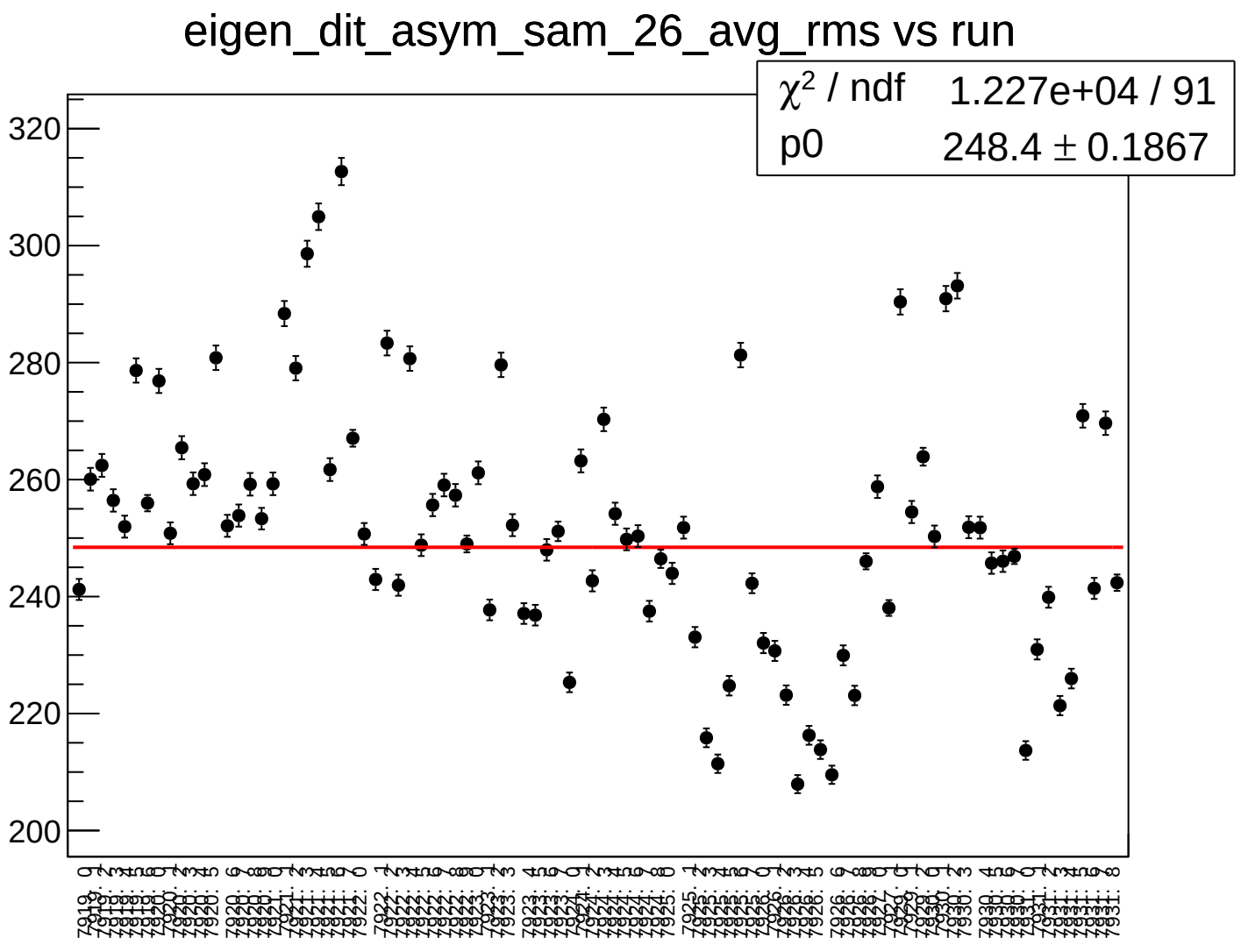

asym_sam_26_avg_dit_correction_mean vs run
χ² / ndf 100.5 / 91
p0 −3409 ± 2056
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean −2.949e+05
Std Dev 0
3
2
1
0
−1
−2

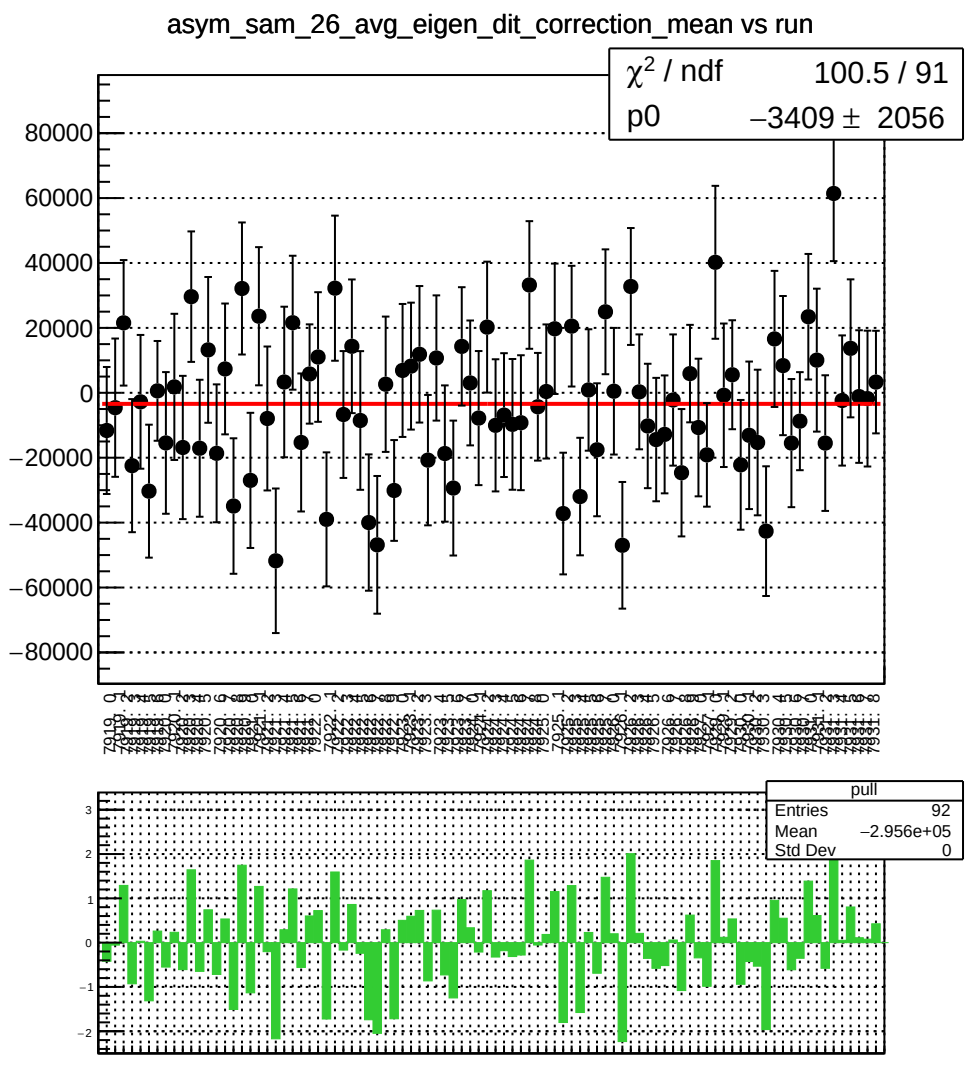

pull1D
Entries 92
Mean −8.623e−06
Std Dev 1.045
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

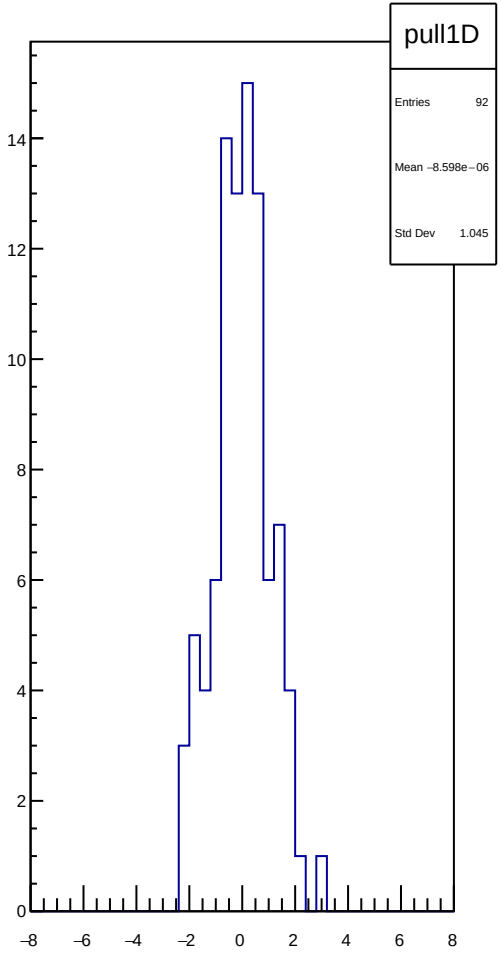

asym_sam_26_avg_dit_correction_rms vs run
χ² / ndf 5318 / 91
p0 1938 ± 1.454
2300
2200
2100
2000
1900
1800
1700

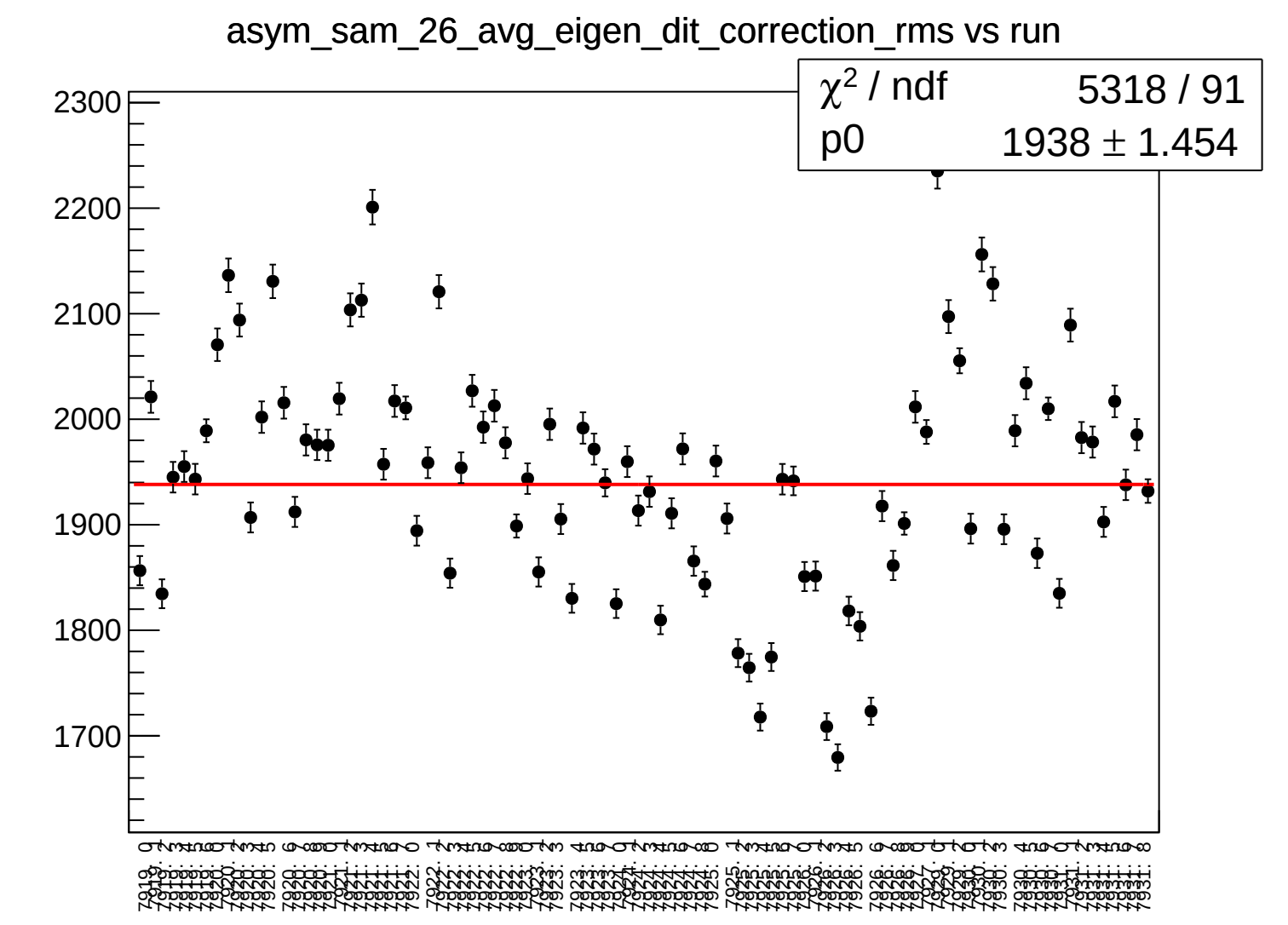

eigen_dit_asym_sam_26_avg_mean vs run
χ² / ndf 118.6 / 91
p0 9.817 ± 264
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −5.598
Std Dev 77.98
3
2
1
0
−1
−2
−3

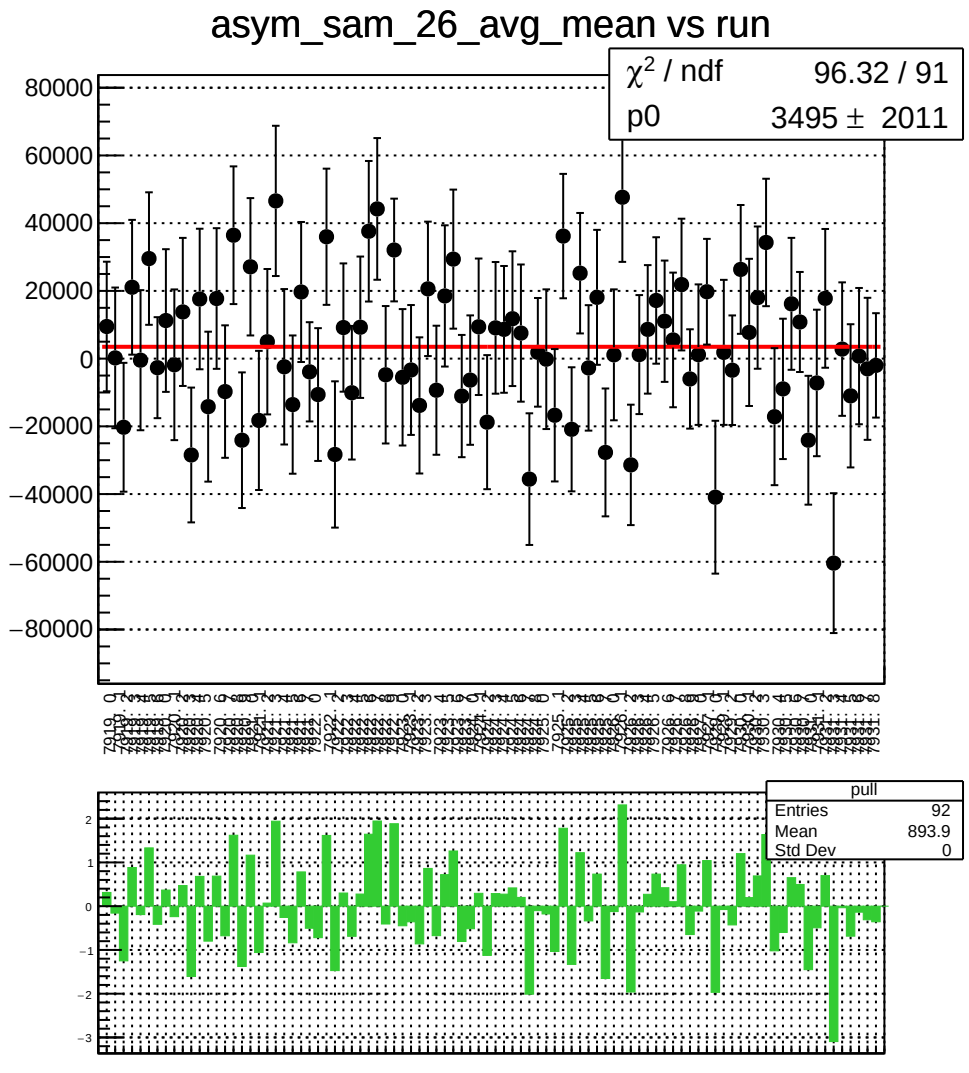

pull1D
Entries 92
Mean −0.00824
Std Dev 1.135
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

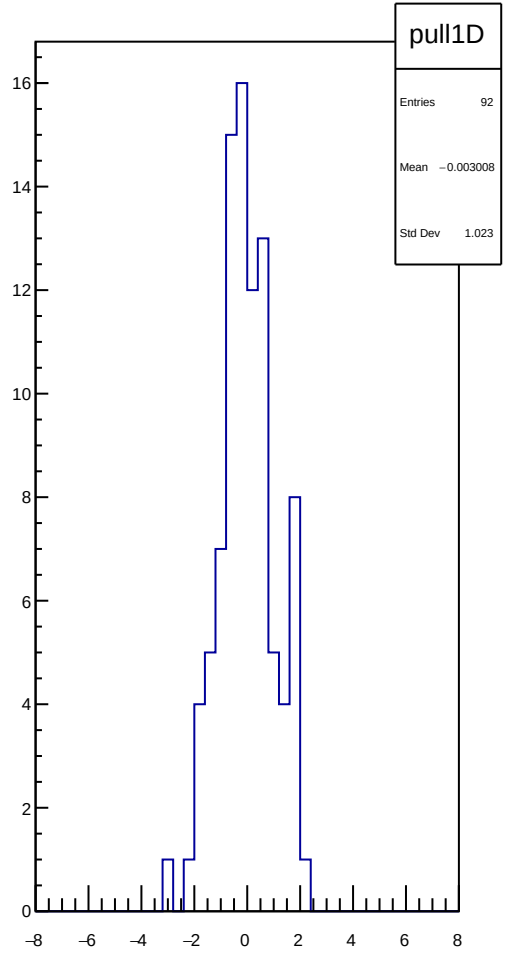

eigen_dit_asym_sam_26_avg_rms vs run
χ² / ndf 1.227e+04 / 91
p0 248.4 ± 0.1867
320
300
280
260
240
220
200

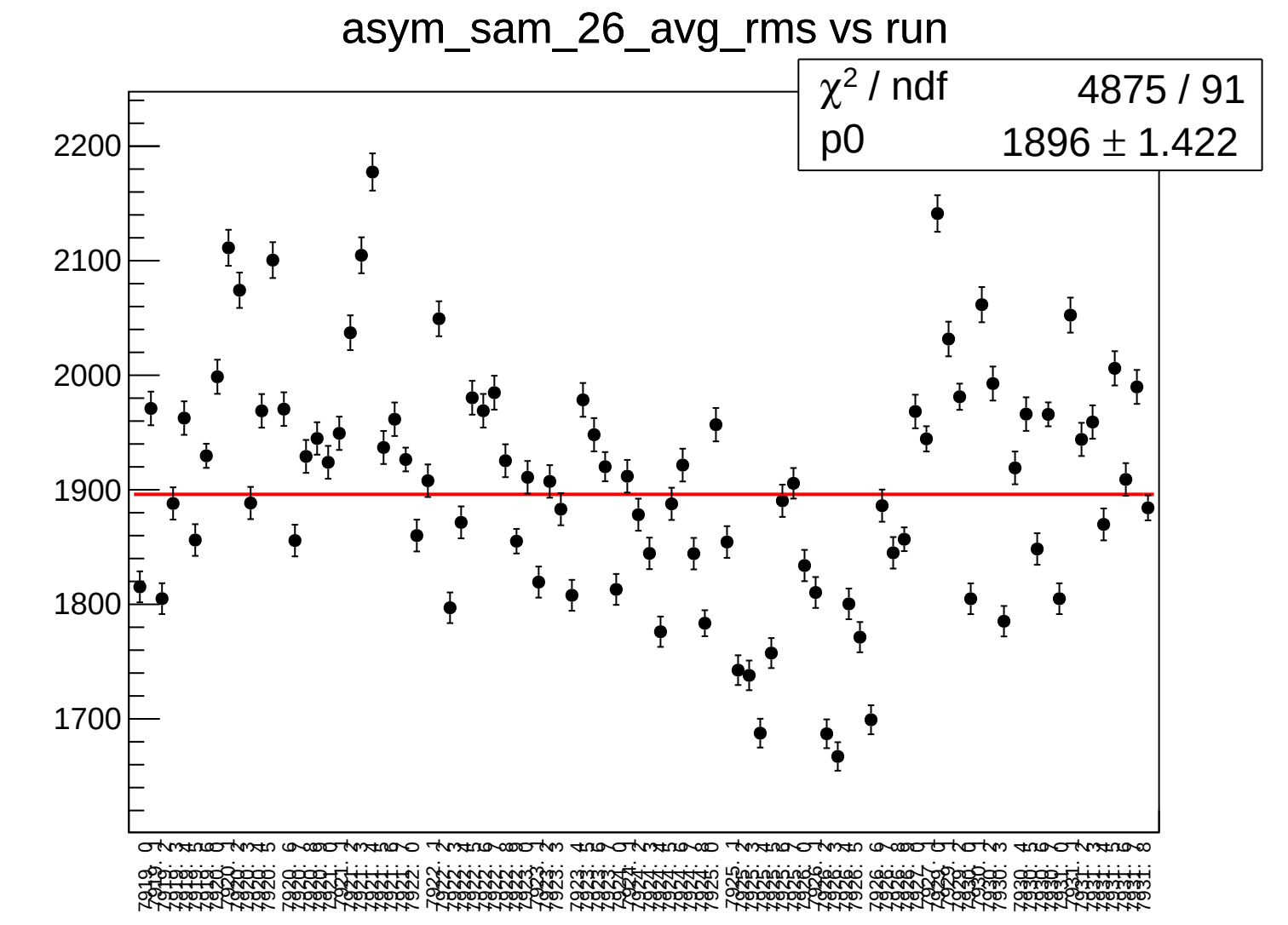

asym_sam_26_avg_eigen_dit_correction_mean vs run
χ² / ndf 100.5 / 91
p0 −3409 ± 2056
pull
Entries 92
Mean −2.956e+05
Std Dev 0

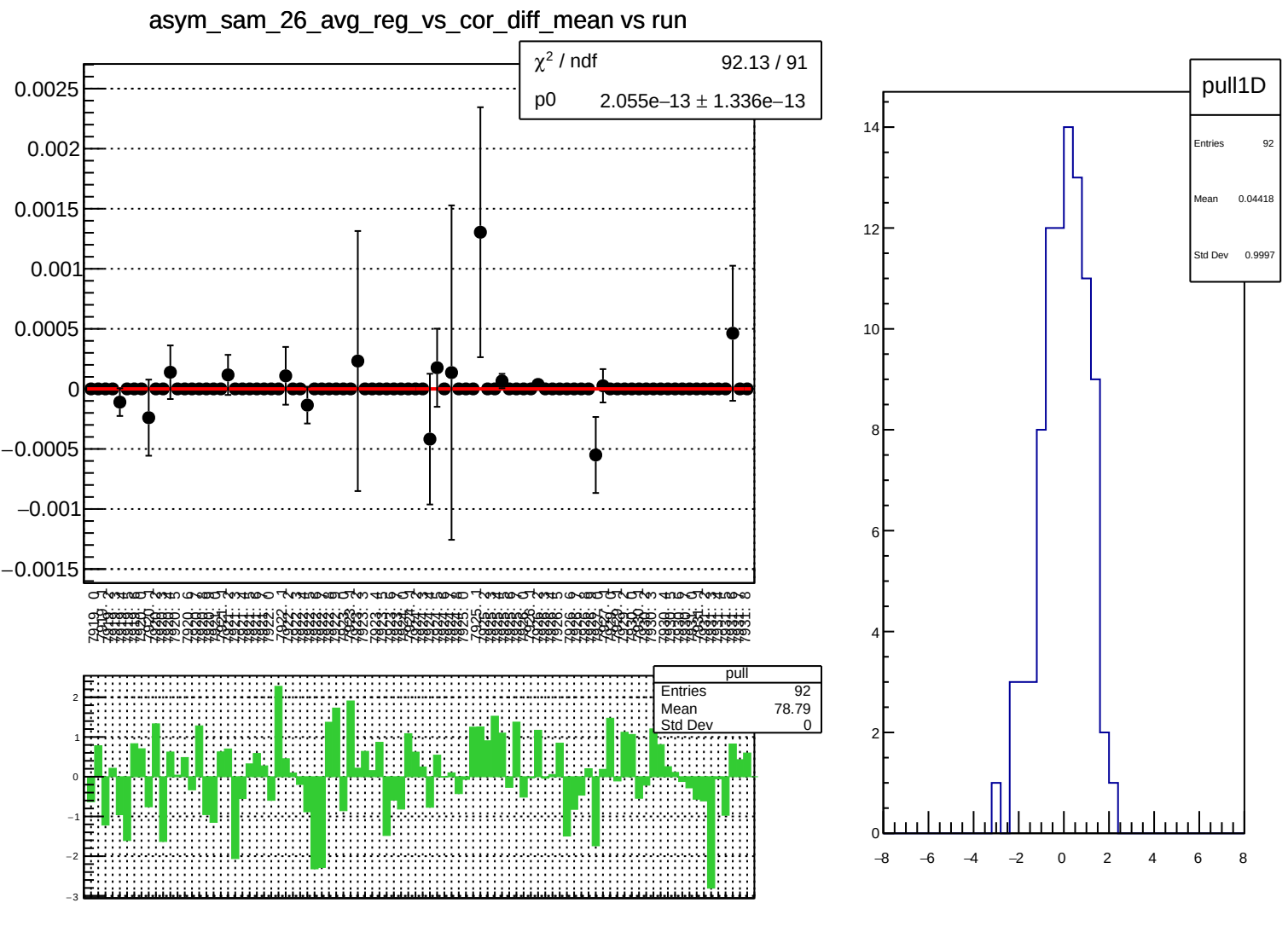

pull1D
Entries 92
Mean −8.598e−06
Std Dev 1.045

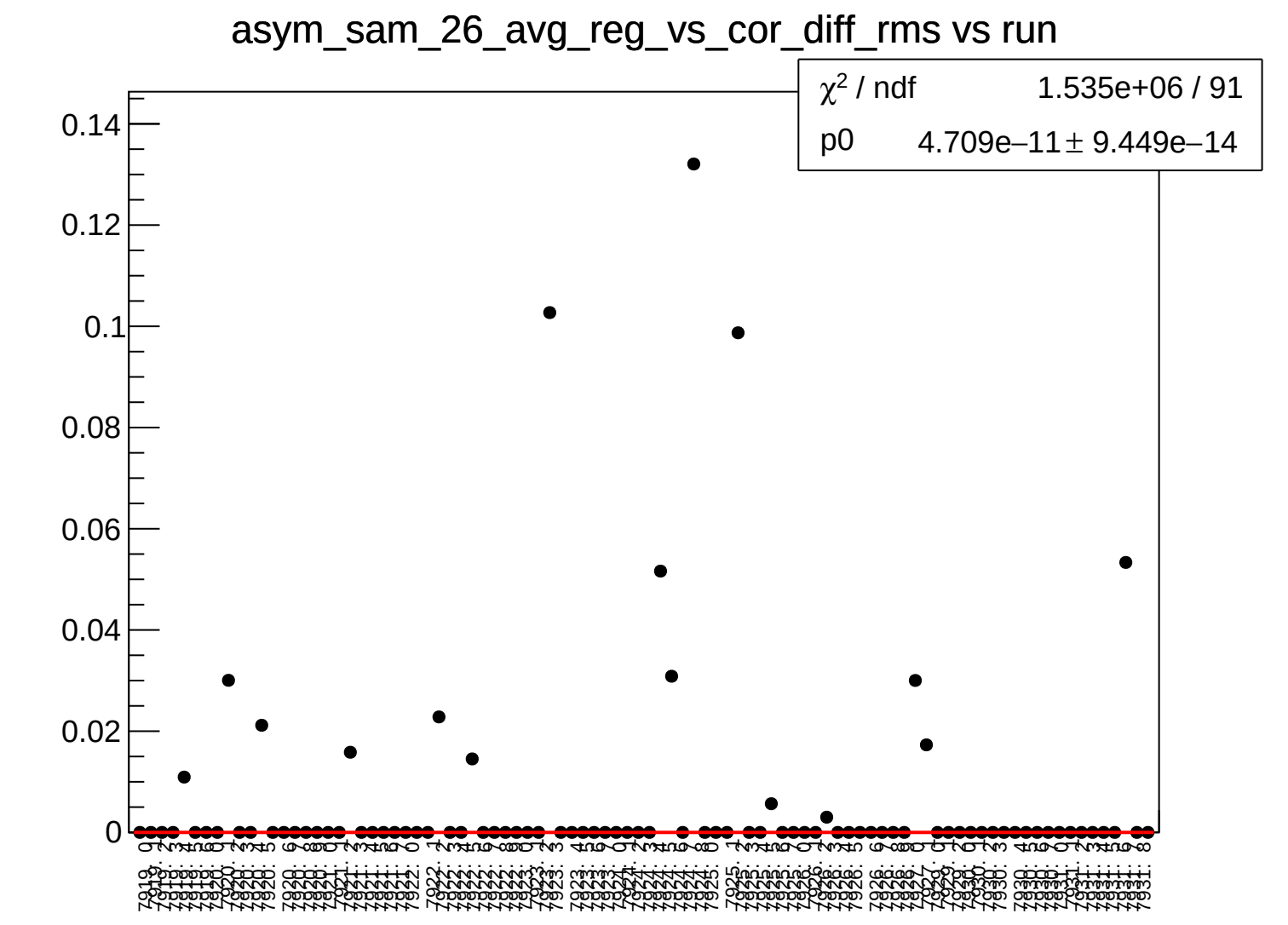

asym_sam_26_avg_eigen_dit_correction_rms vs run
χ² / ndf 5318 / 91
p0 1938 ± 1.454
2300
2200
2100
2000
1900
1800
1700

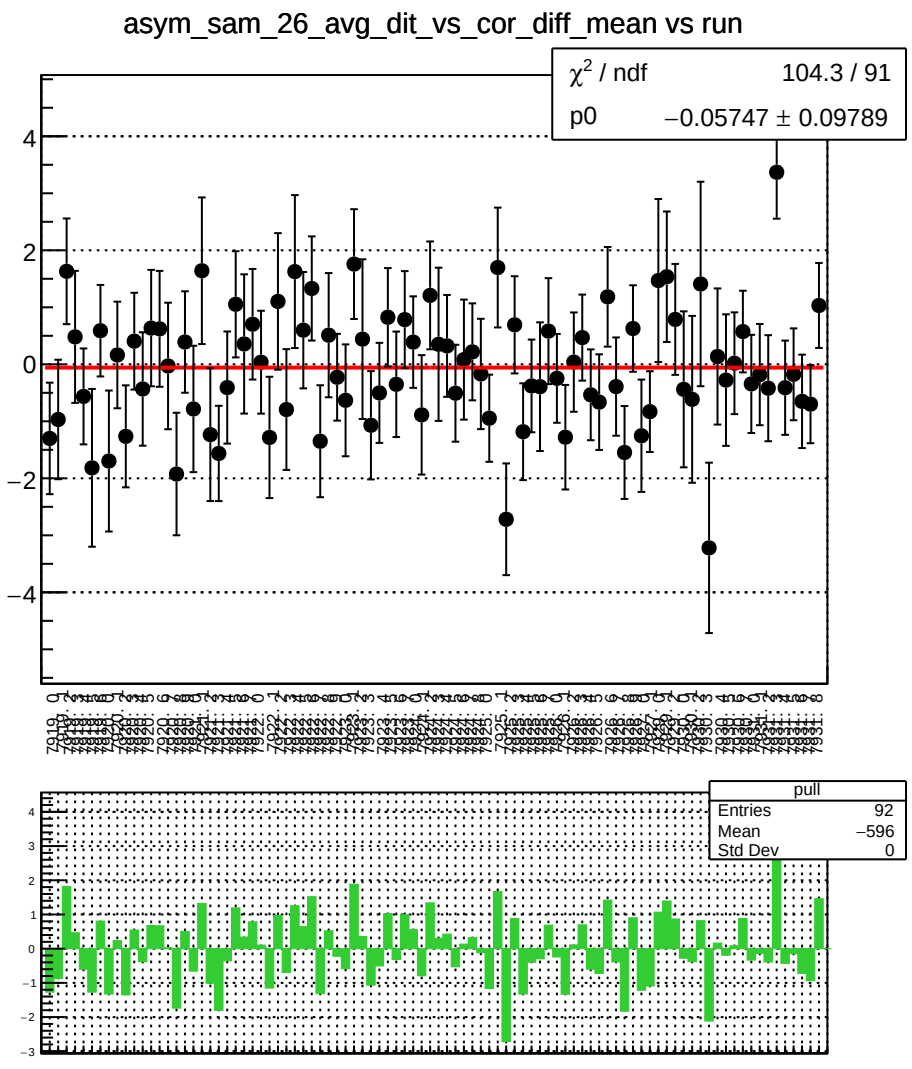

asym_sam_26_avg_mean vs run
χ² / ndf 96.32 / 91
p0 3495 ± 2011
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean 893.9
Std Dev 0
2
1
0
−1
−2
−3

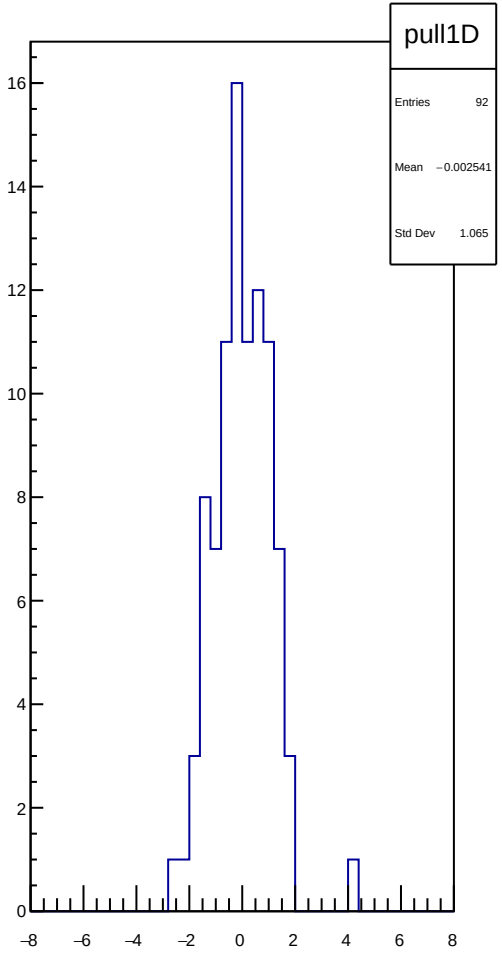

pull1D
Entries 92
Mean −0.003008
Std Dev 1.023
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

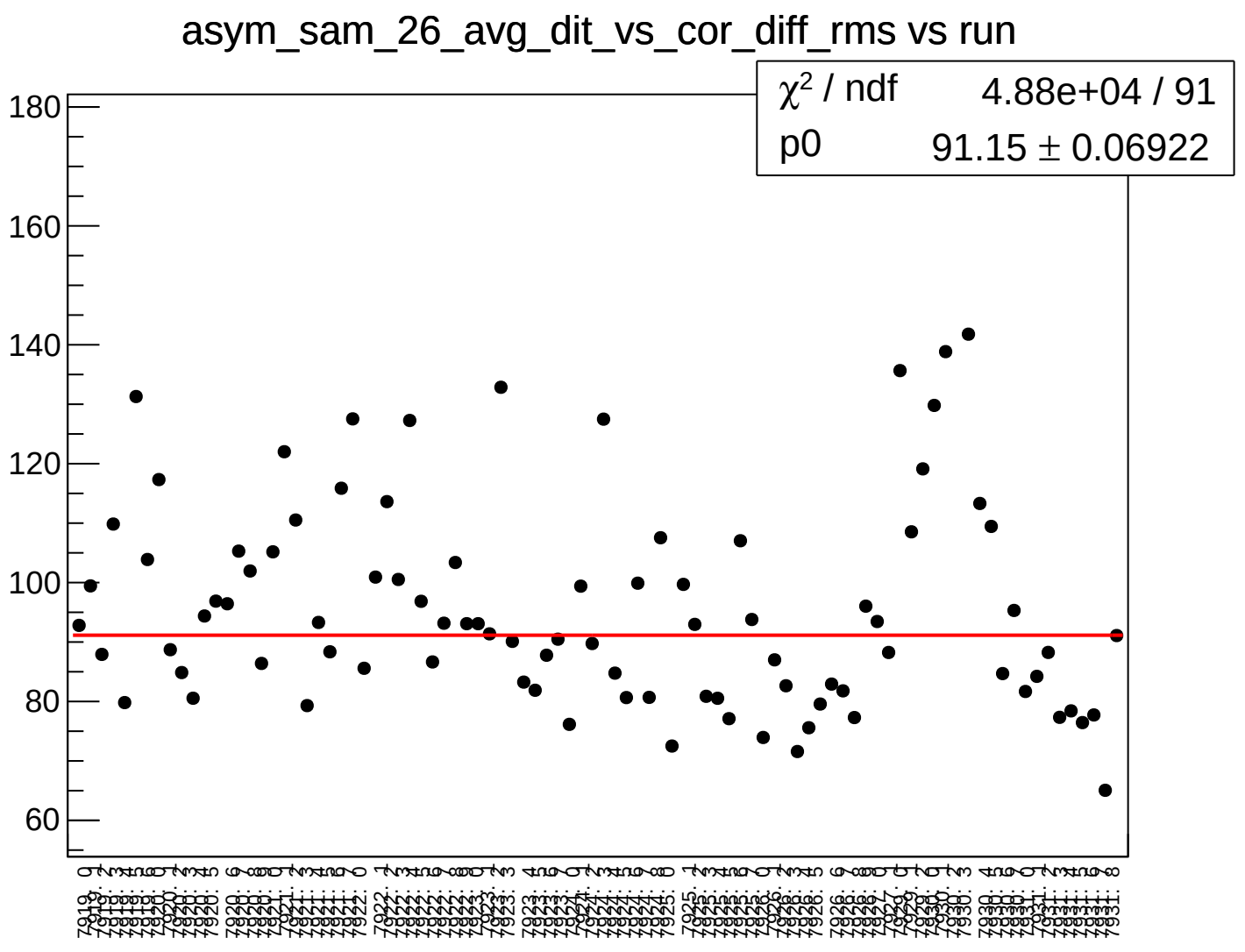

asym_sam_26_avg_rms vs run
χ^2 / ndf 4875 / 91
p0 1896 ± 1.422
2200
2100
2000
1900
1800
1700

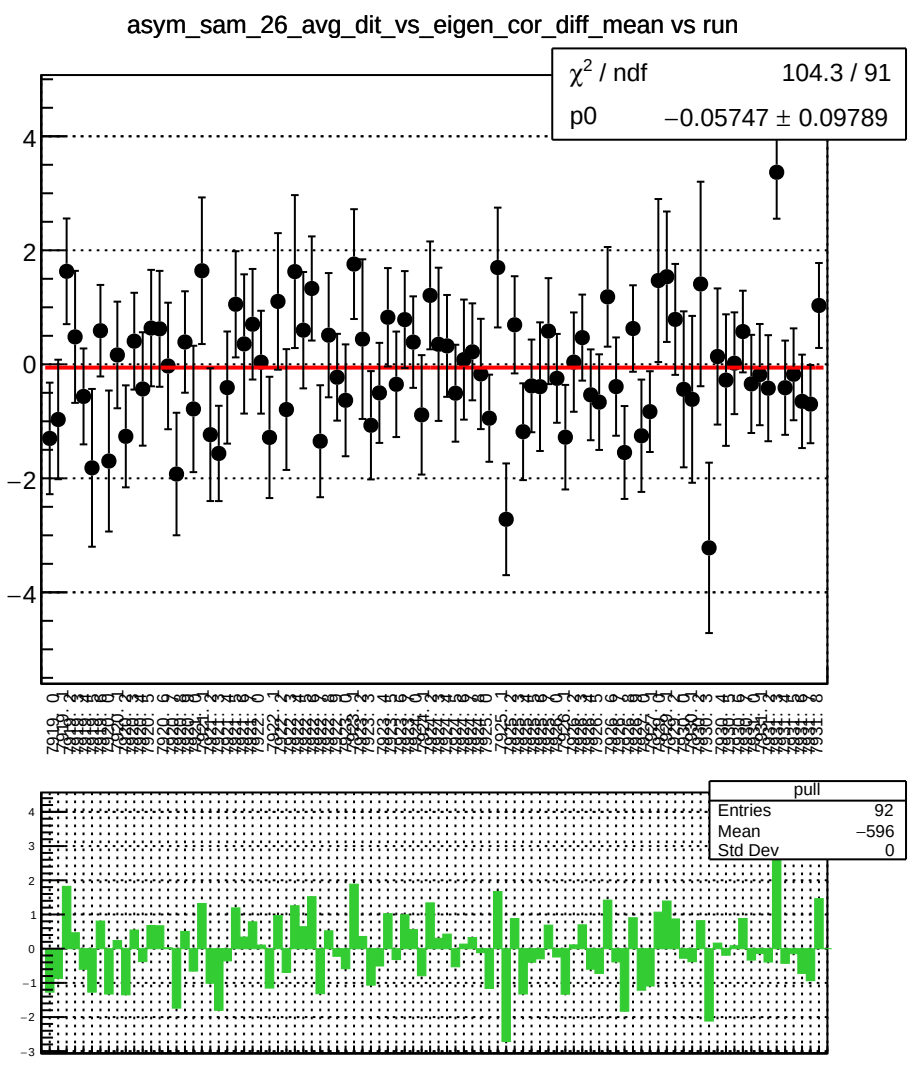

asym_sam_26_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 92.13 / 91
p0 2.055e−13 ± 1.336e−13
0.0025
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 92
Mean 78.79
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean 0.04418
Std Dev 0.9997
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

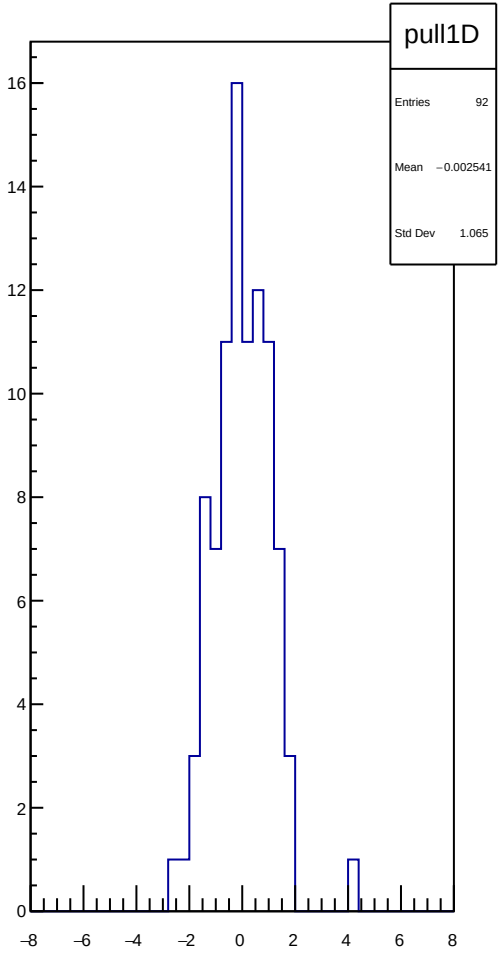

asym_sam_26_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.535e+06 / 91
p0 4.709e−11 ± 9.449e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

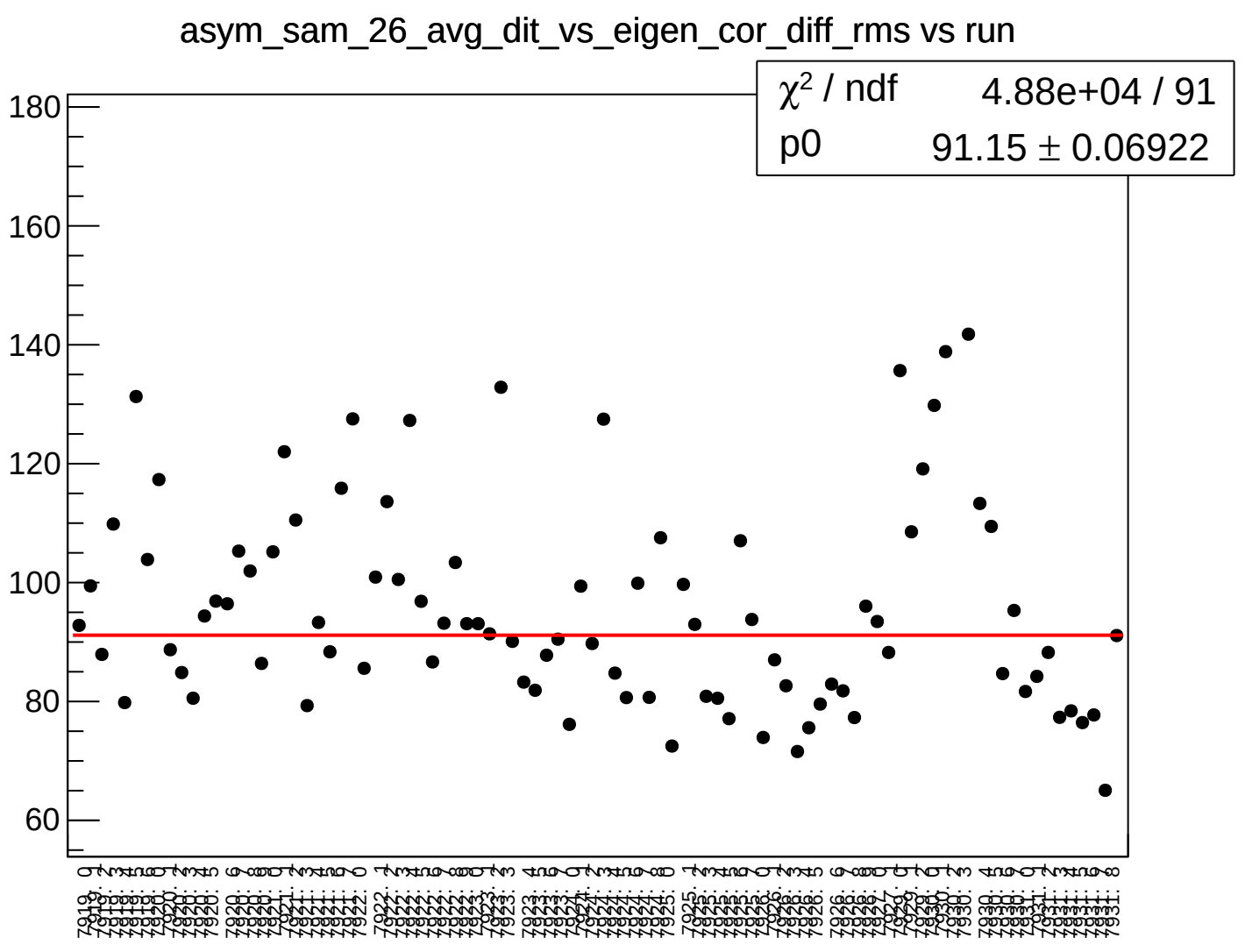

asym_sam_26_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 104.3 / 91
p0 −0.05747 ± 0.09789
pull
Entries 92
Mean −596
Std Dev 0

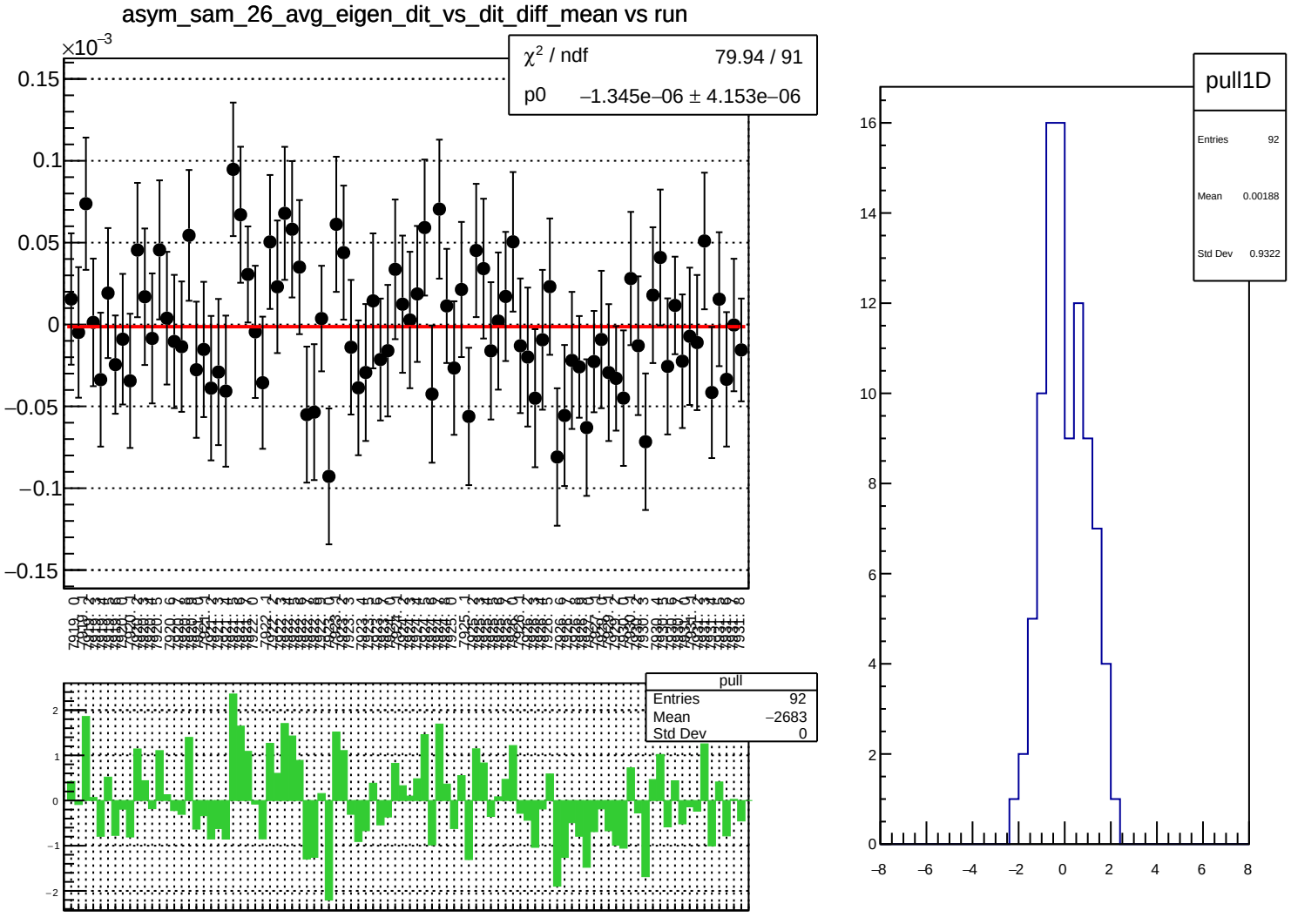

pull1D
Entries 92
Mean −0.002541
Std Dev 1.065

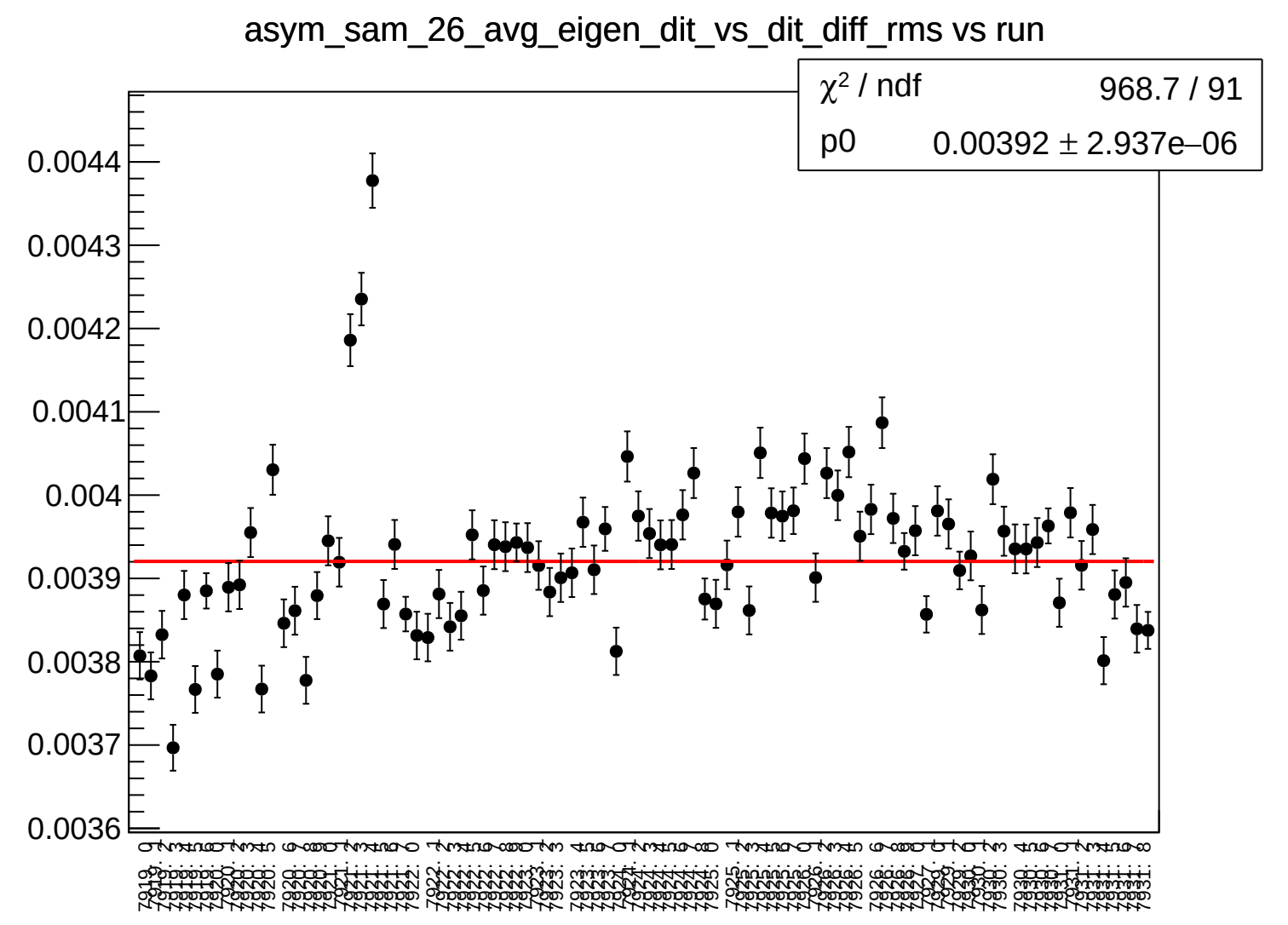

asym_sam_26_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.88e+04 / 91
p0 91.15 ± 0.06922
180
160
140
120
100
80
60

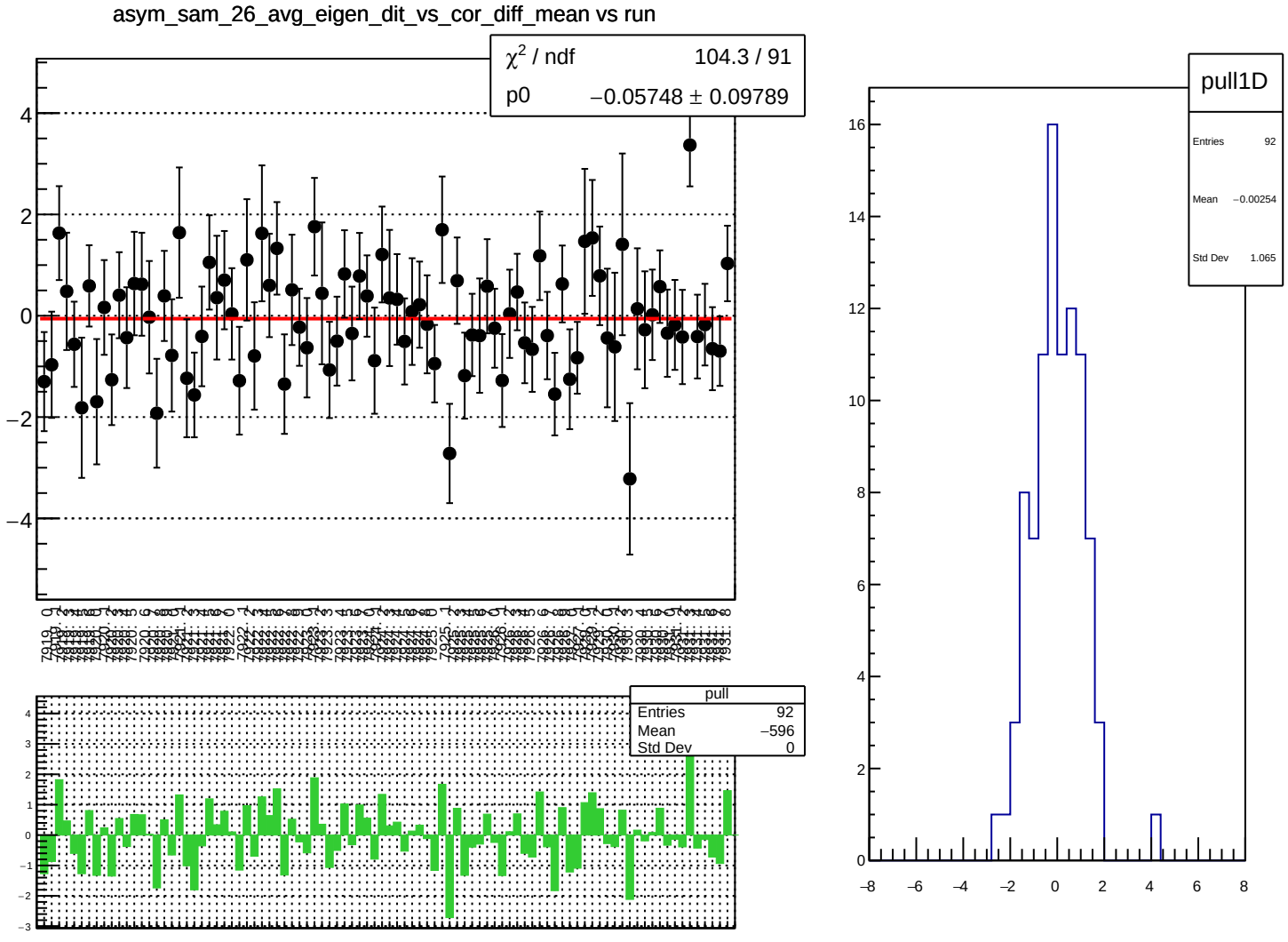

asym_sam_26_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.3 / 91
p0 −0.05747 ± 0.09789
pull
Entries 92
Mean −596
Std Dev 0

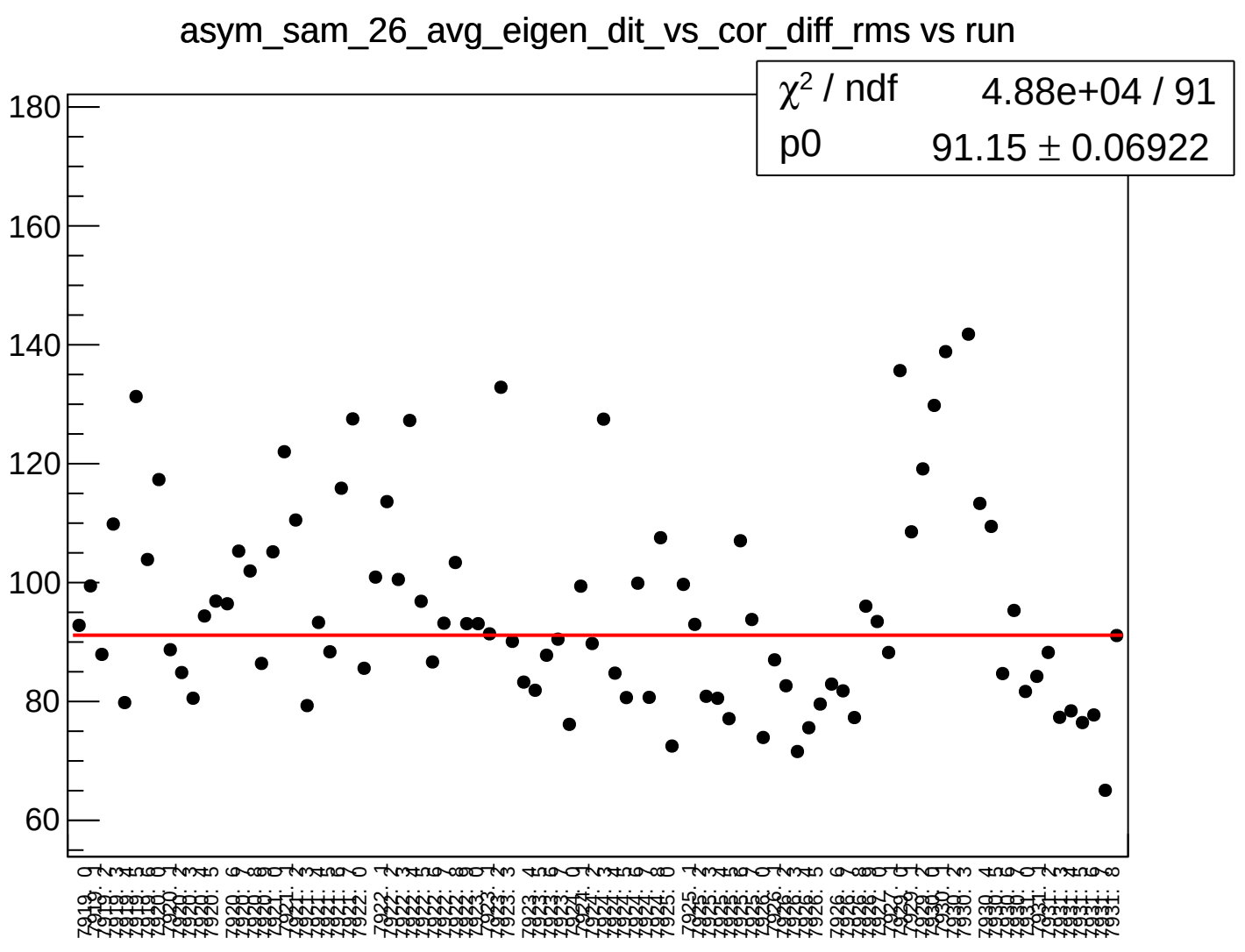

pull1D
Entries 92
Mean −0.002541
Std Dev 1.065

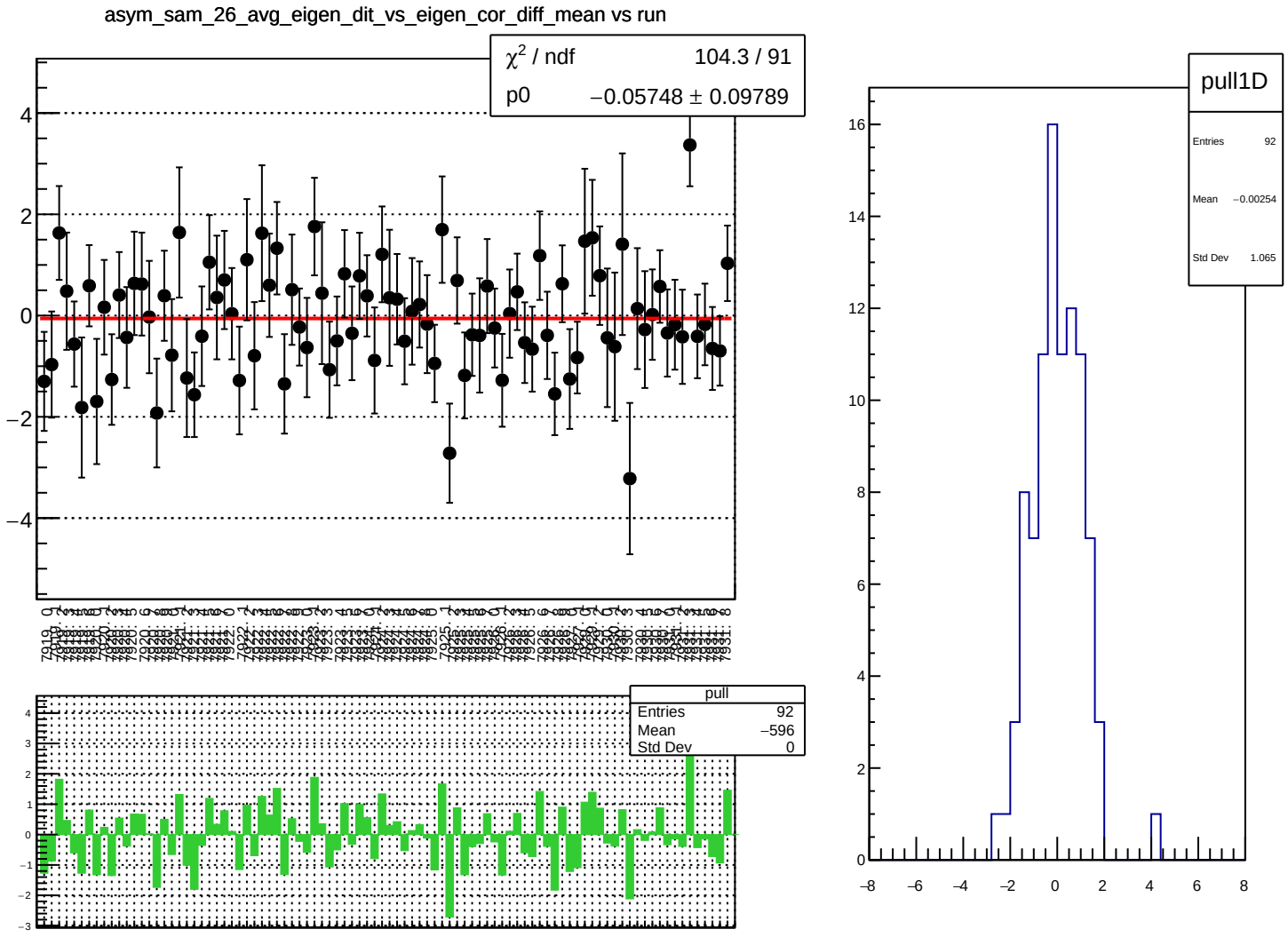

asym_sam_26_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.88e+04 / 91
p0 91.15 ± 0.06922
180
160
140
120
100
80
60

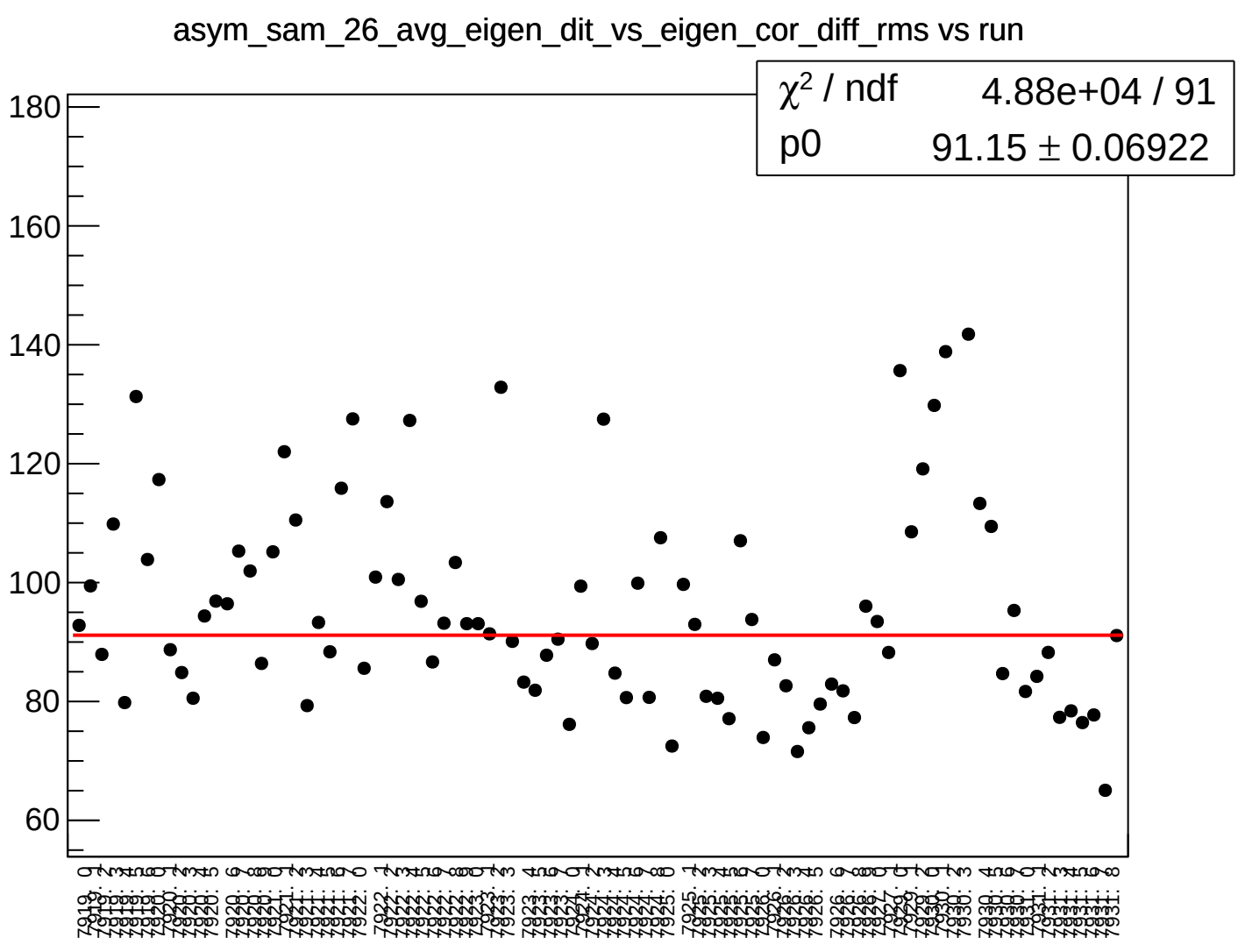

asym_sam_26_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 79.94 / 91
p0 −1.345e−06 ± 4.153e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 92
Mean −2683
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.00188
Std Dev 0.9322
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

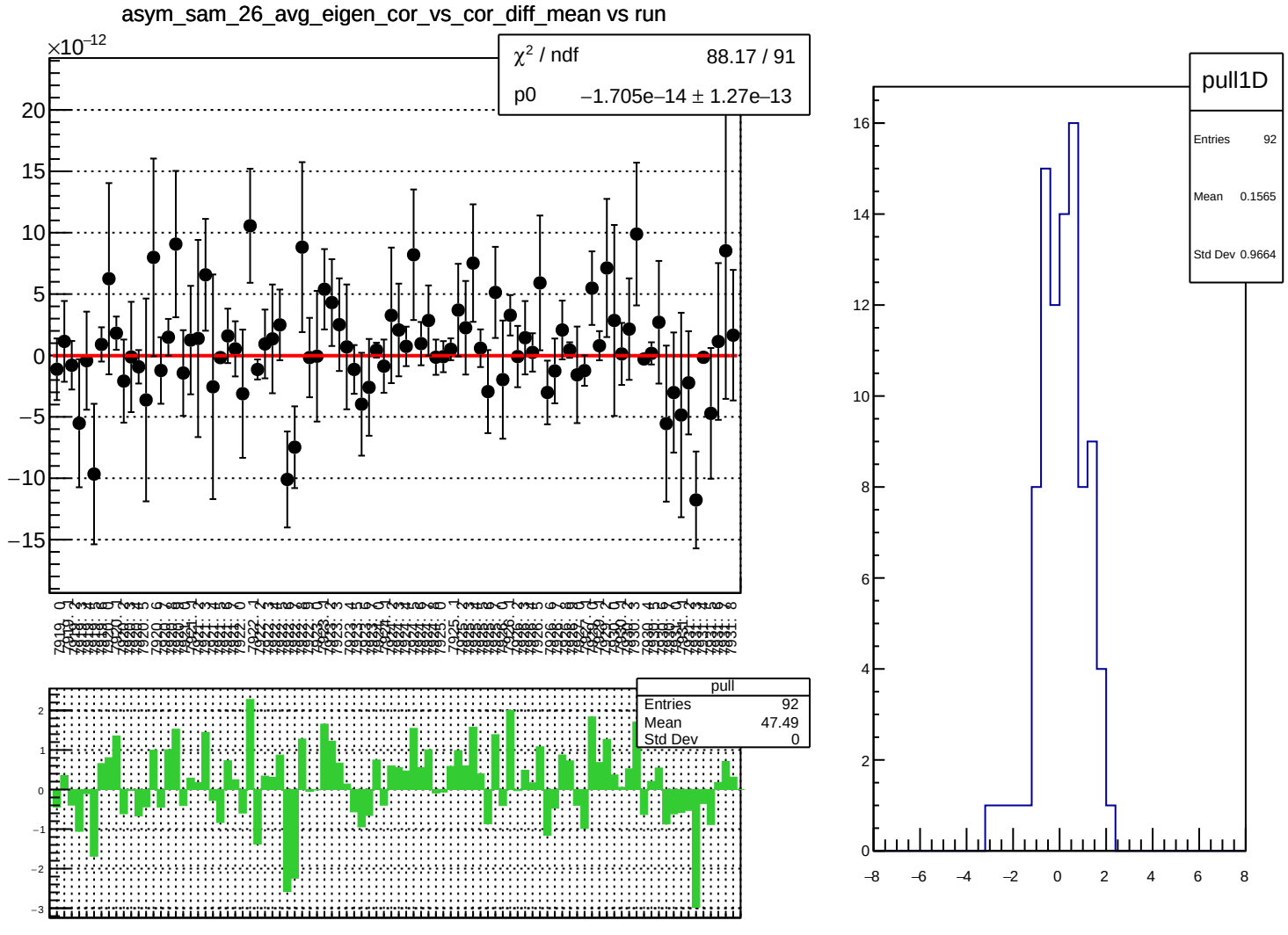

asym_sam_26_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 968.7 / 91
p0 0.00392 ± 2.937e−06
0.0044
0.0043
0.0042
0.0041
0.004
0.0039
0.0038
0.0037
0.0036

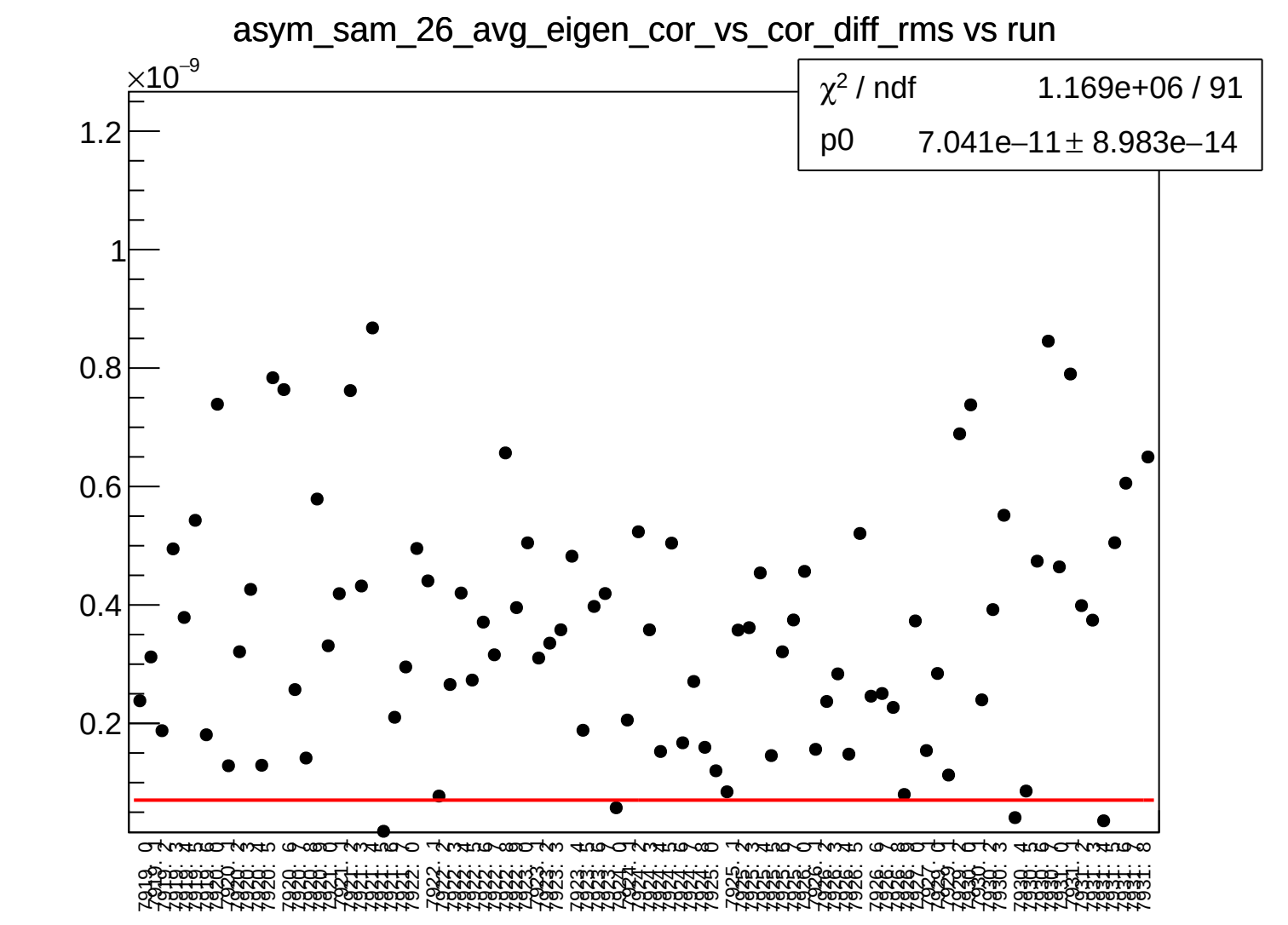

asym_sam_26_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 104.3 / 91
p0 −0.05748 ± 0.09789
pull
Entries 92
Mean −596
Std Dev 0
pull1D
Entries 92
Mean −0.00254
Std Dev 1.065

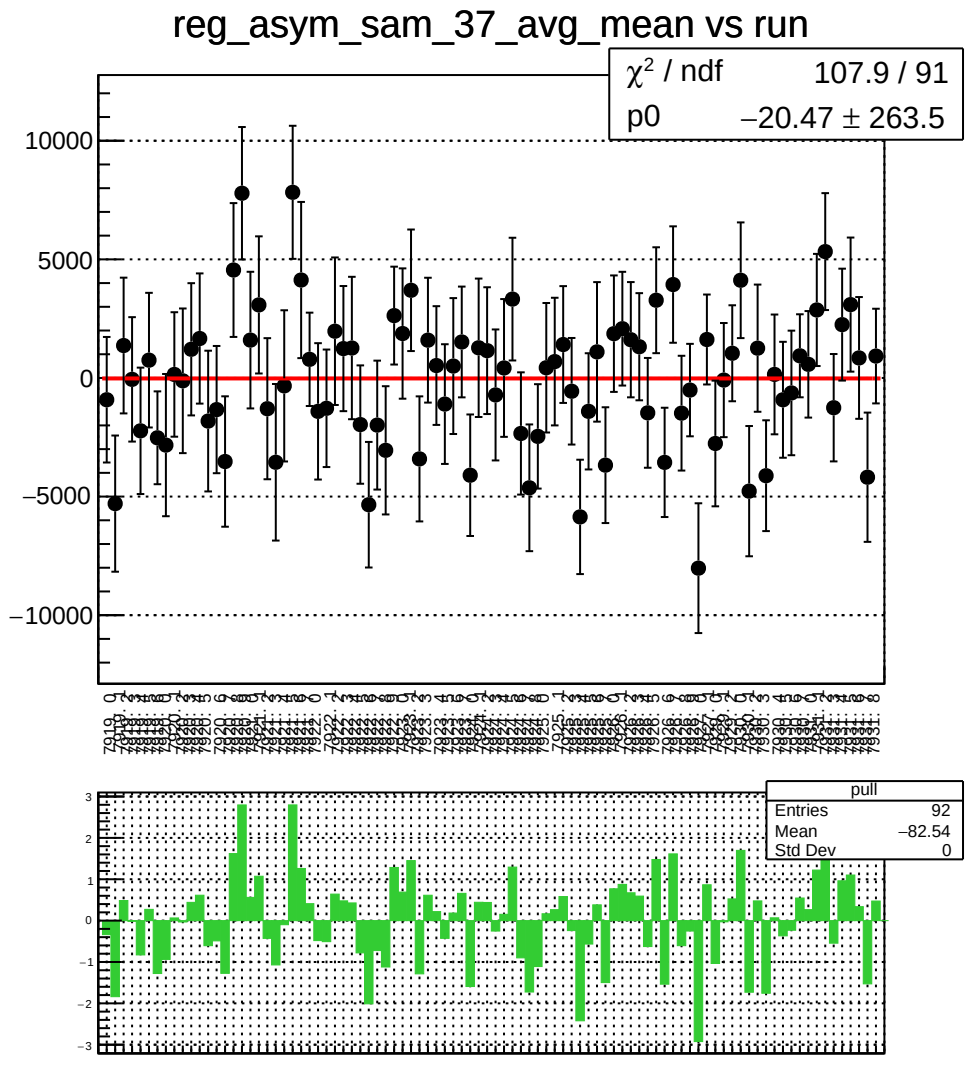

asym_sam_26_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.88e+04 / 91
p0 91.15 ± 0.06922
180
160
140
120
100
80
60

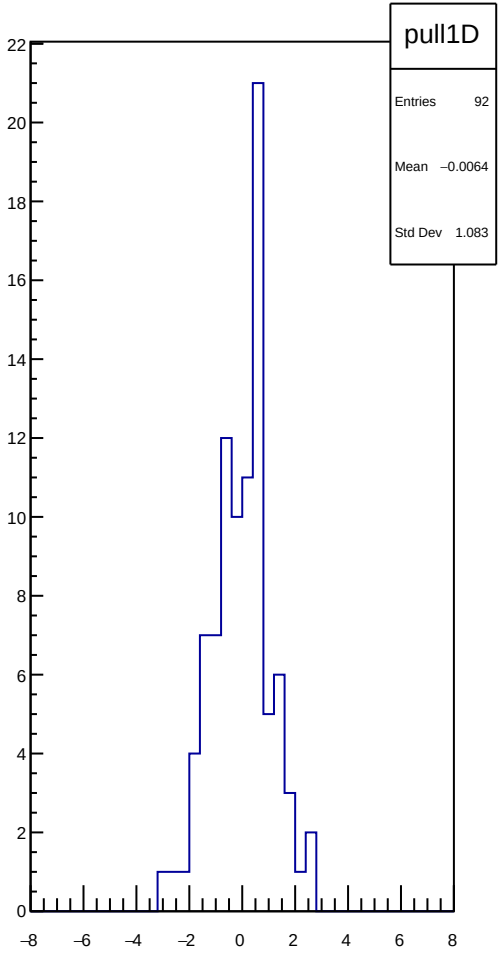

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.3 / 91
p0 −0.05748 ± 0.09789
pull
Entries 92
Mean −596
Std Dev 0
pull1D
Entries 92
Mean −0.00254
Std Dev 1.065

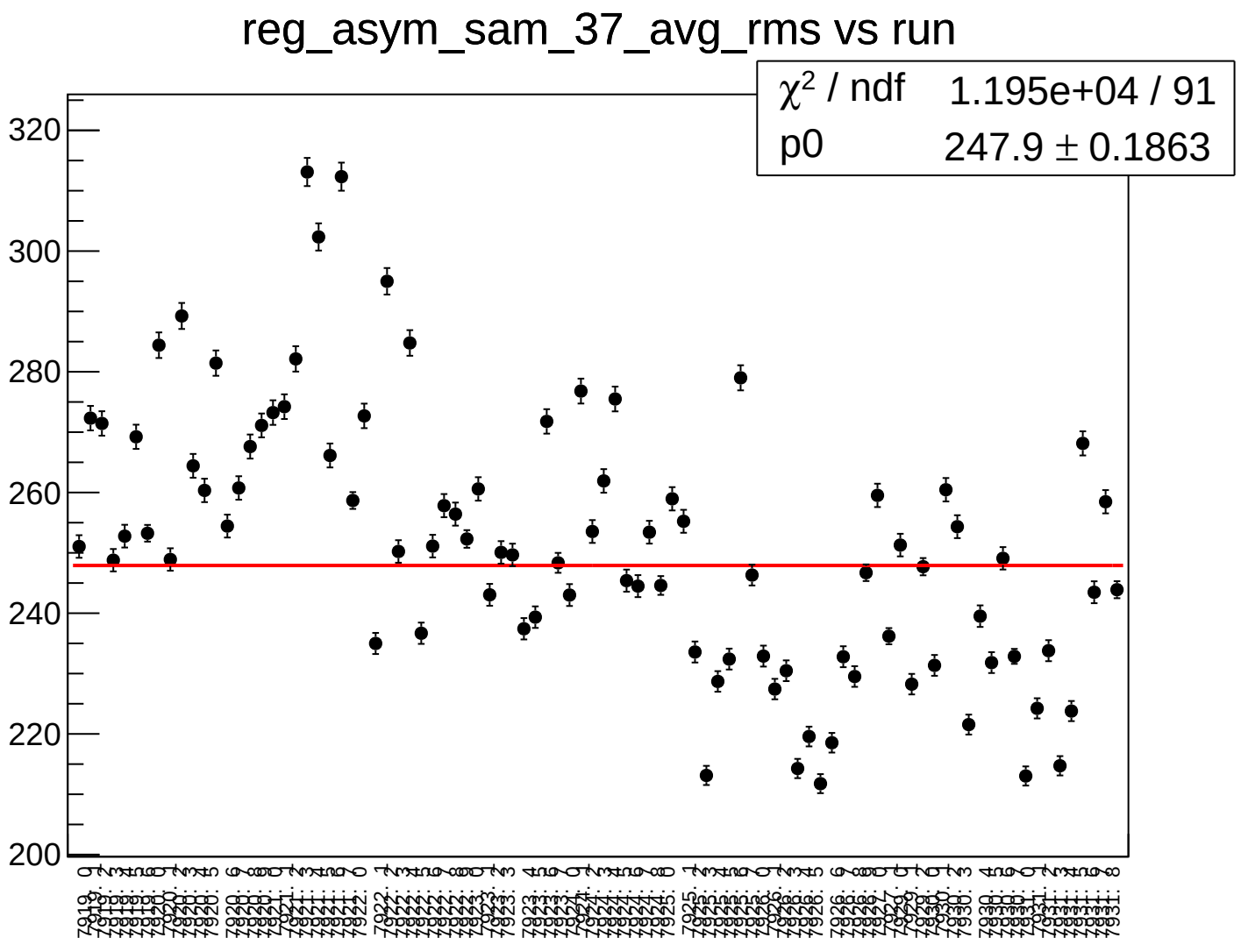

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.88e+04 / 91
p0 91.15 ± 0.06922
180
160
140
120
100
80
60

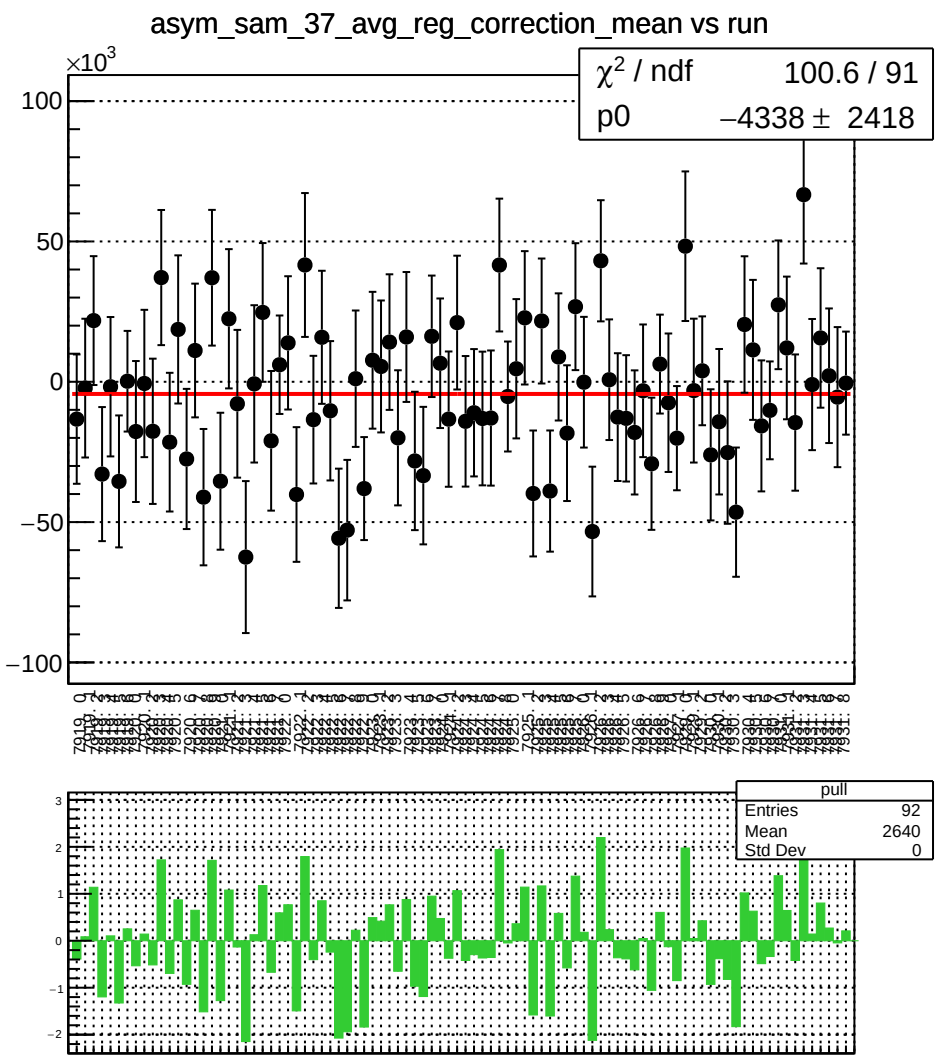

asym_sam_26_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.17 / 91
p0 −1.705e−14 ± 1.27e−13
pull
Entries 92
Mean 47.49
Std Dev 0
pull1D
Entries 92
Mean 0.1565
Std Dev 0.9664

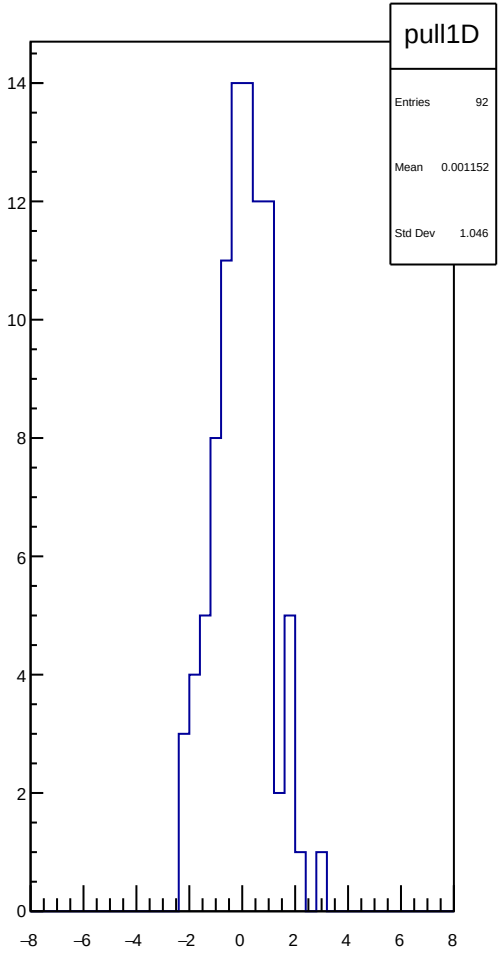

asym_sam_26_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.169e+06 / 91
p0 7.041e−11 ± 8.983e−14
1.2
1
0.8
0.6
0.4
0.2

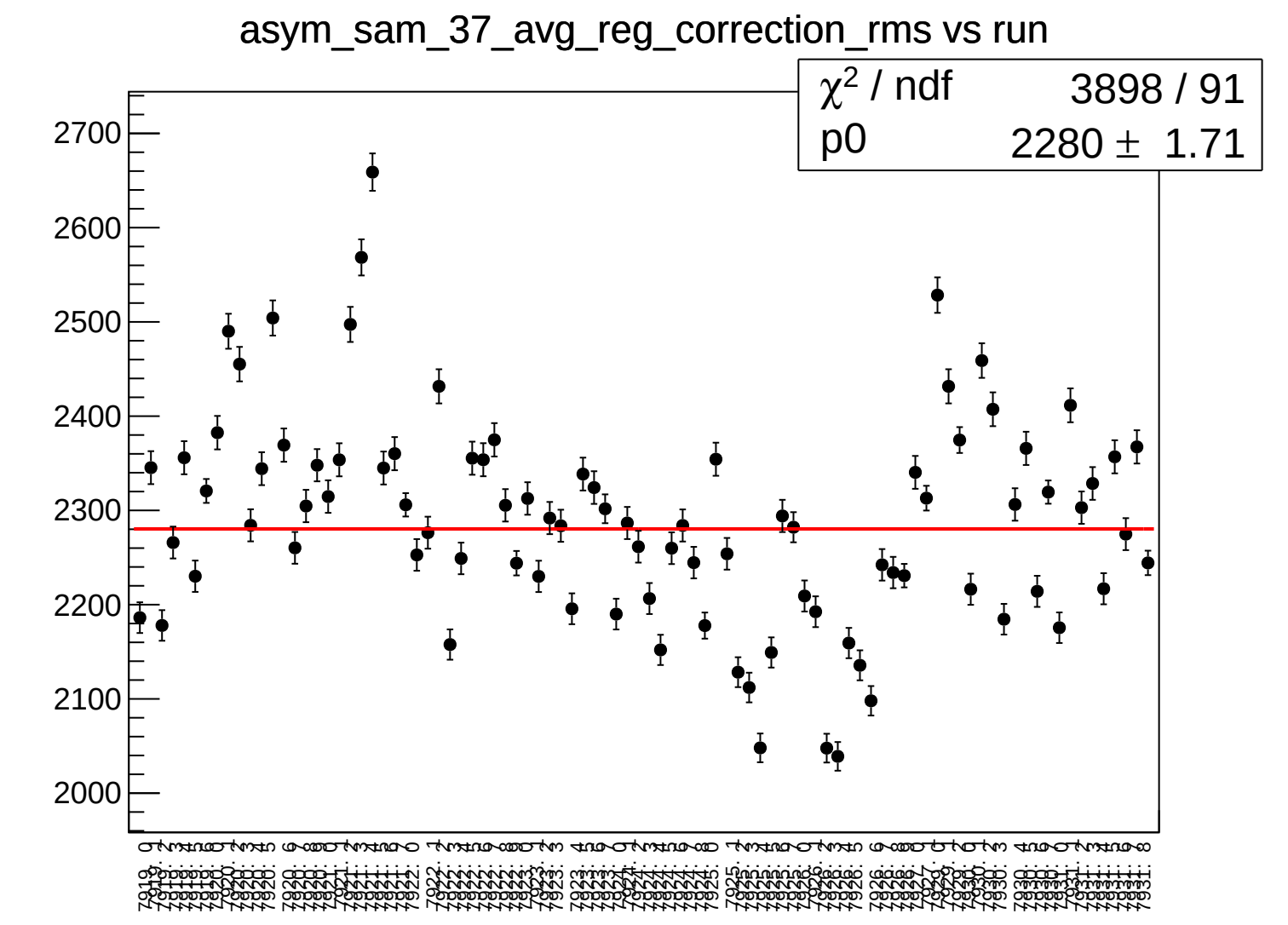

reg_asym_sam_37_avg_mean vs run
χ² / ndf 107.9 / 91
p0 −20.47 ± 263.5
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −82.54
Std Dev 0
3
2
1
0
−1
−2
−3

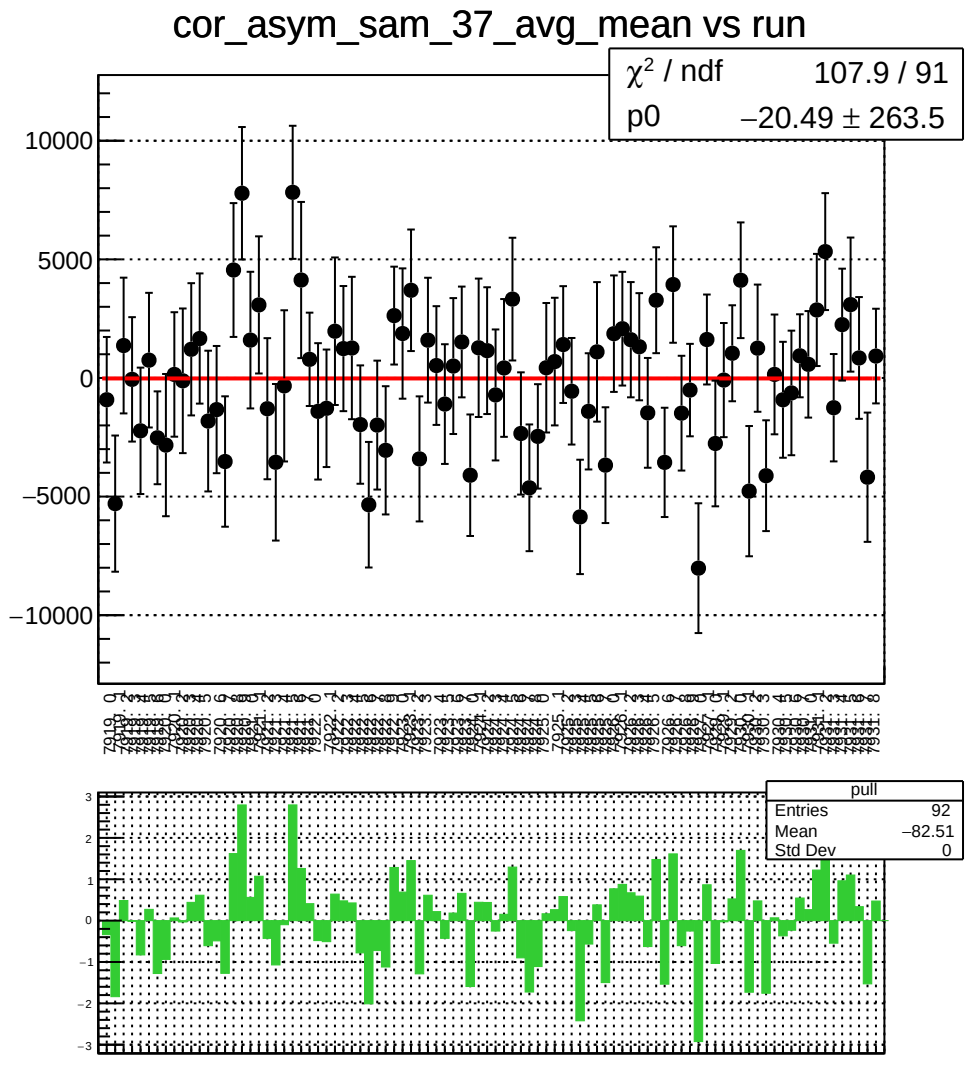

pull1D
Entries 92
Mean −0.0064
Std Dev 1.083
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

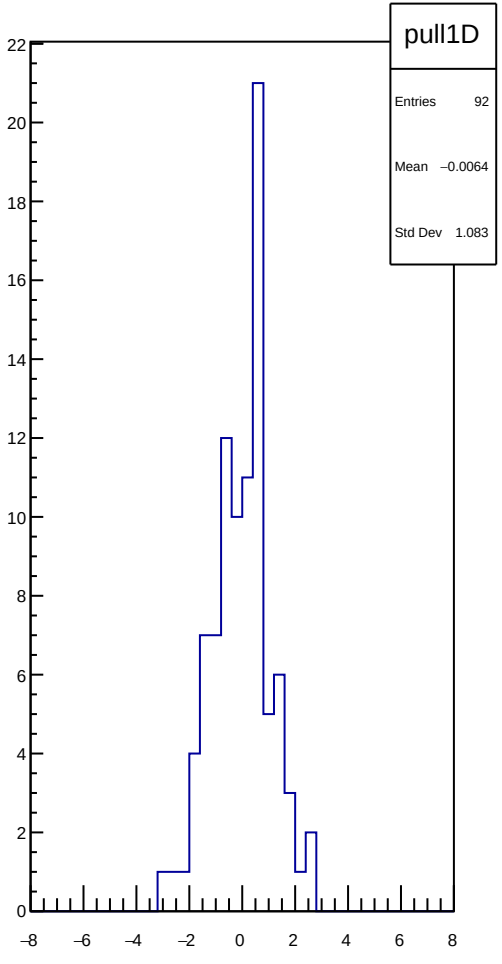

reg_asym_sam_37_avg_rms vs run
χ² / ndf 1.195e+04 / 91
p0 247.9 ± 0.1863
320
300
280
260
240
220
200

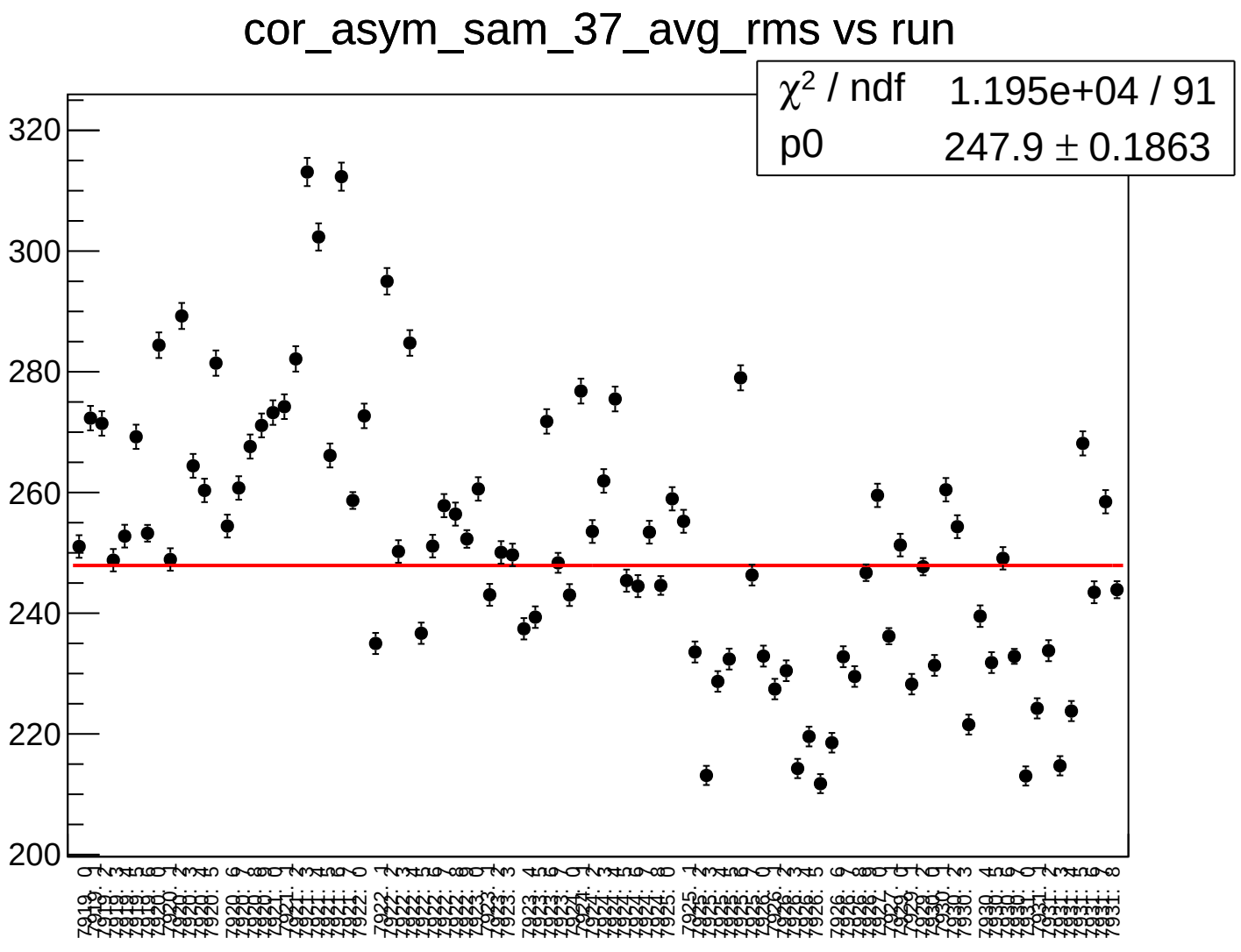

asym_sam_37_avg_reg_correction_mean vs run
×10^3
χ² / ndf 100.6 / 91
p0 −4338 ± 2418
100
50
0
−50
−100
pull
Entries 92
Mean 2640
Std Dev 0
3
2
1
0
−1
−2

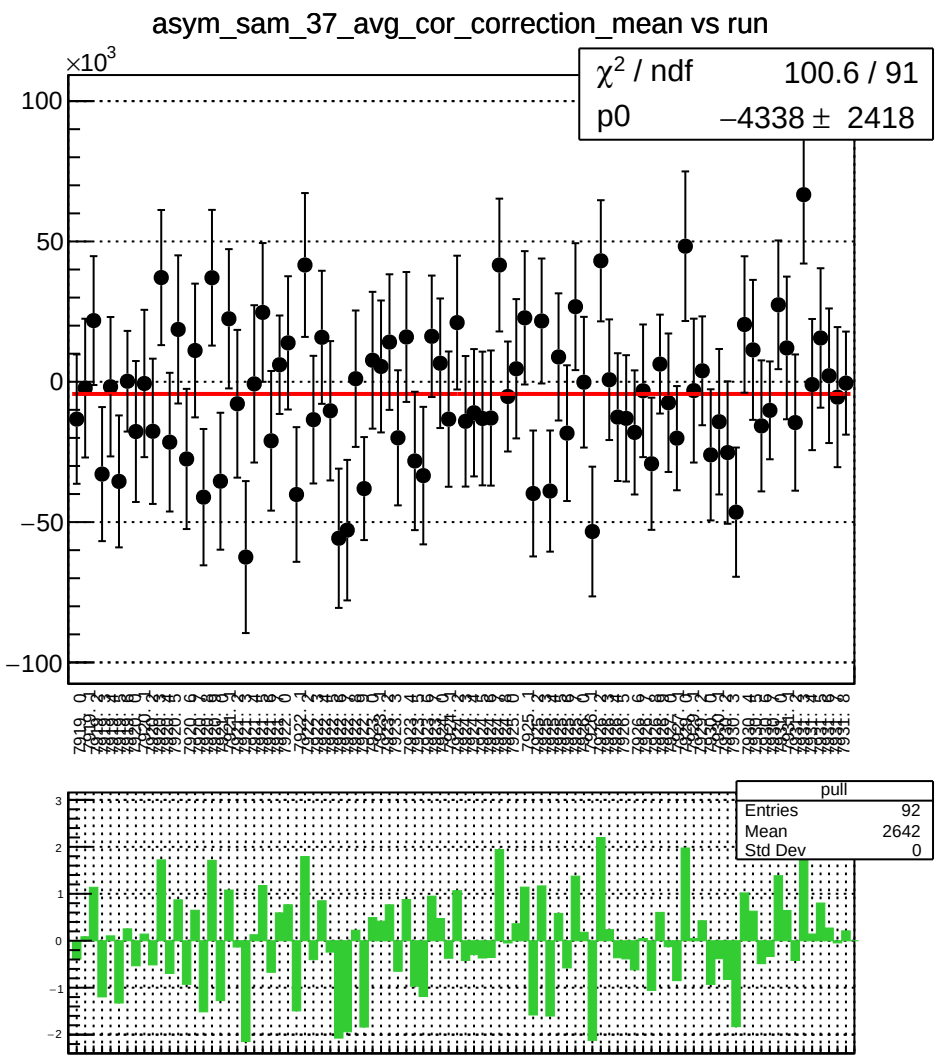

pull1D
Entries 92
Mean 0.001152
Std Dev 1.046
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

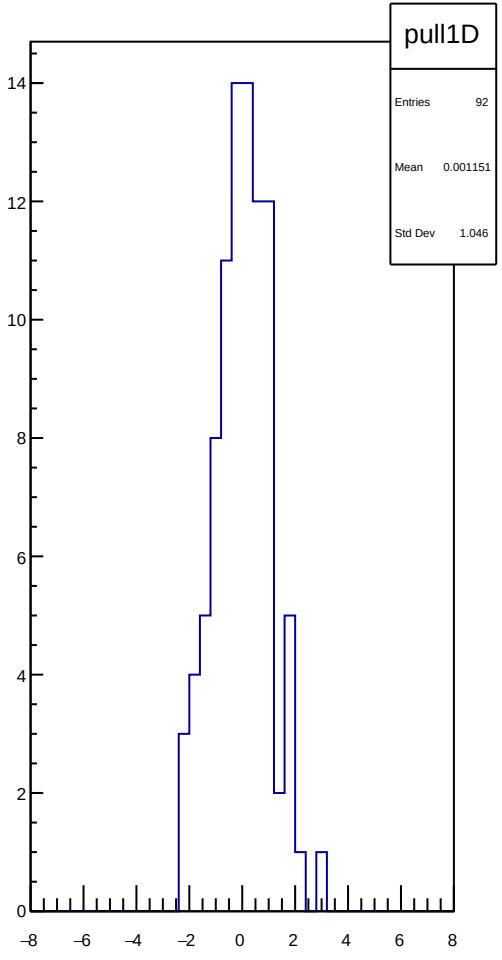

asym_sam_37_avg_reg_correction_rms vs run
χ² / ndf 3898 / 91
p0 2280 ± 1.71
2700
2600
2500
2400
2300
2200
2100
2000

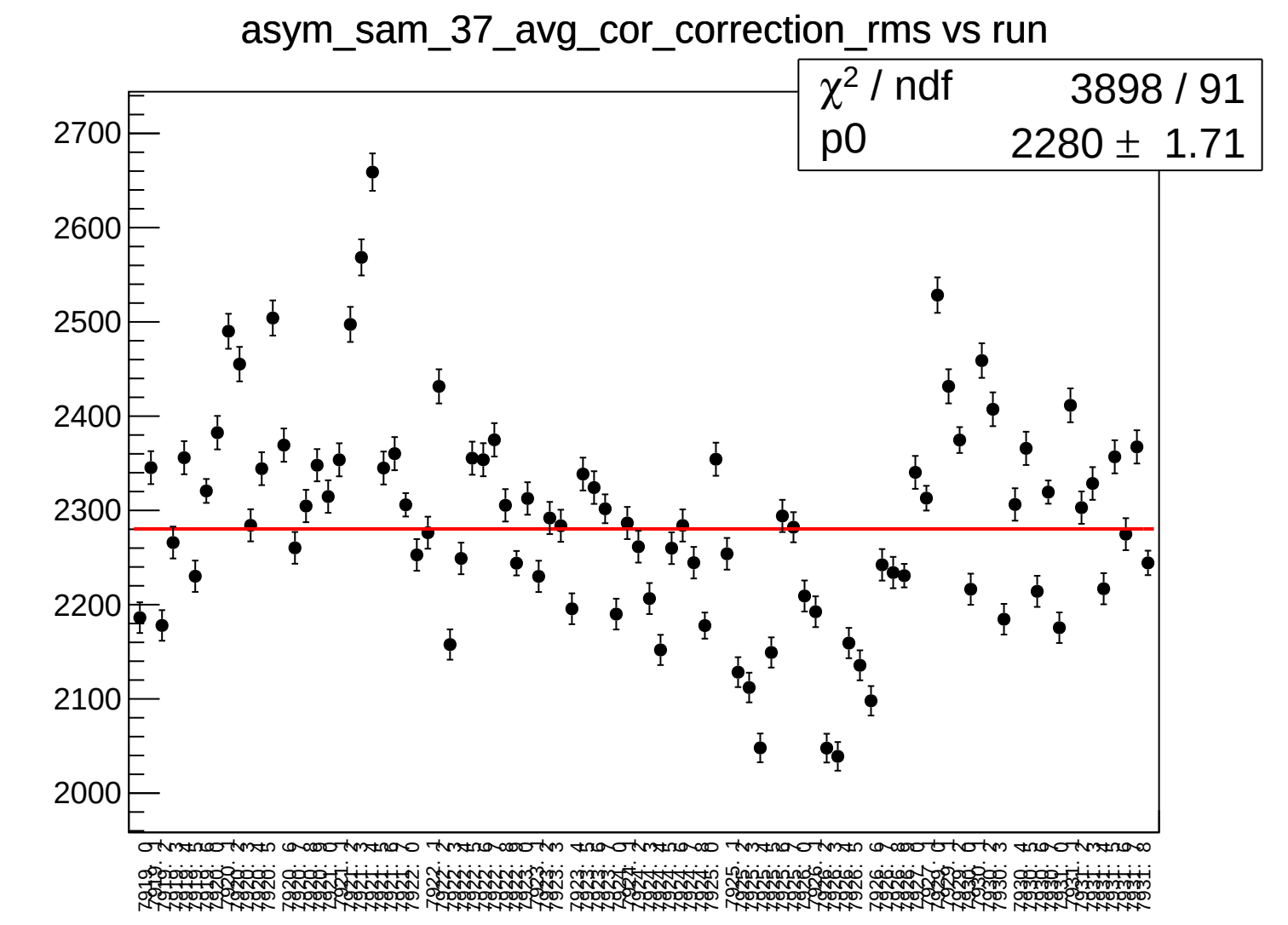

cor_asym_sam_37_avg_mean vs run
χ² / ndf 107.9 / 91
p0 −20.49 ± 263.5
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −82.51
Std Dev 0
3
2
1
0
−1
−2
−3

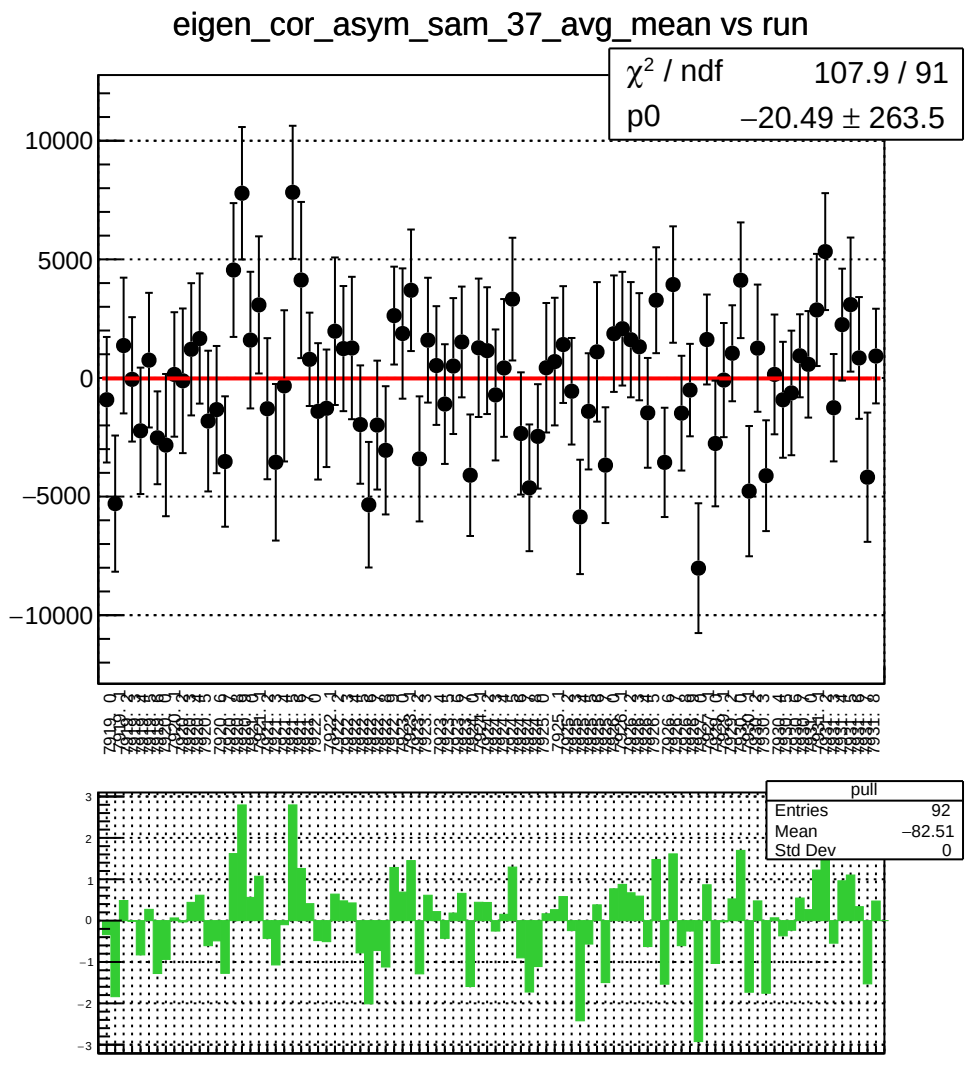

pull1D
Entries 92
Mean −0.0064
Std Dev 1.083
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

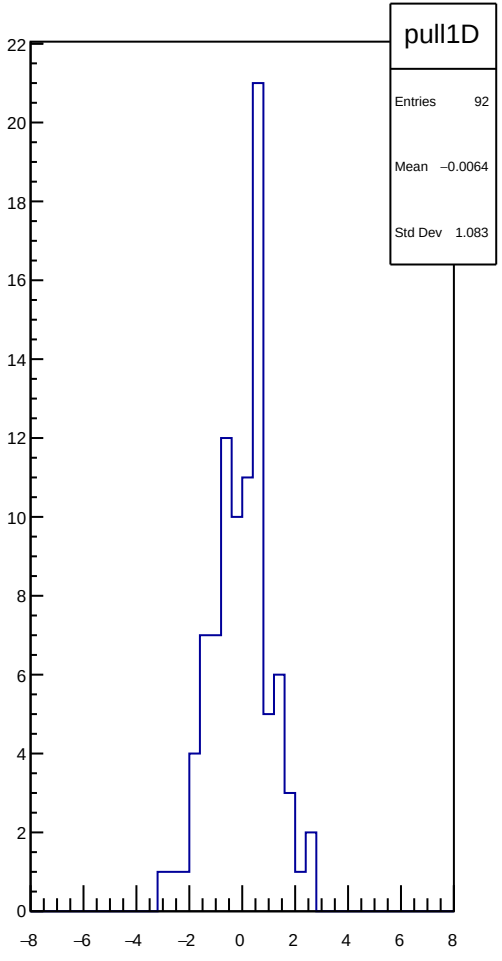

cor_asym_sam_37_avg_rms vs run
χ^2 / ndf 1.195e+04 / 91
p0 247.9 ± 0.1863
320
300
280
260
240
220
200

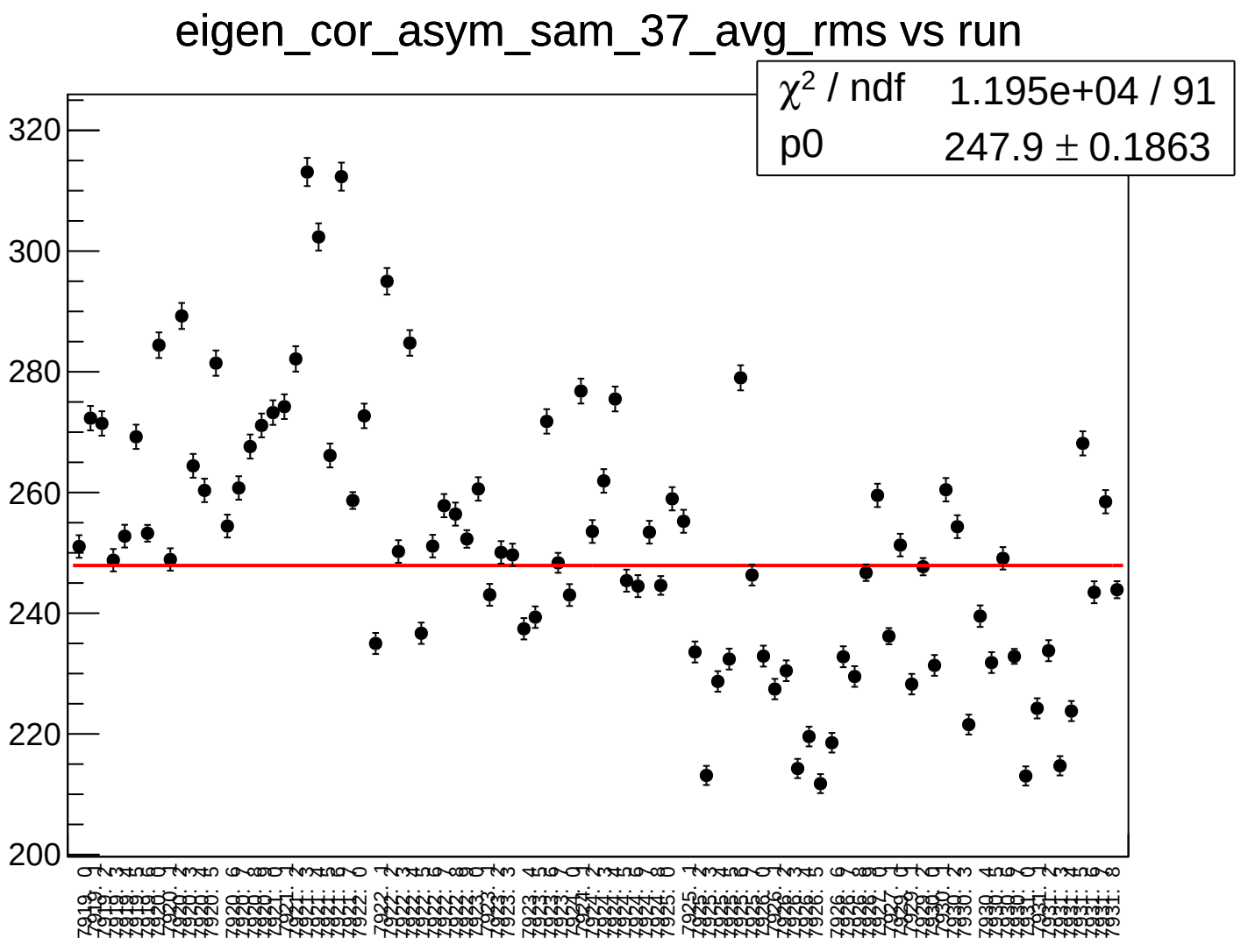

asym_sam_37_avg_cor_correction_mean vs run
×10^3
χ² / ndf 100.6 / 91
p0 −4338 ± 2418
100
50
0
−50
−100
pull
Entries 92
Mean 2642
Std Dev 0
3
2
1
0
−1
−2

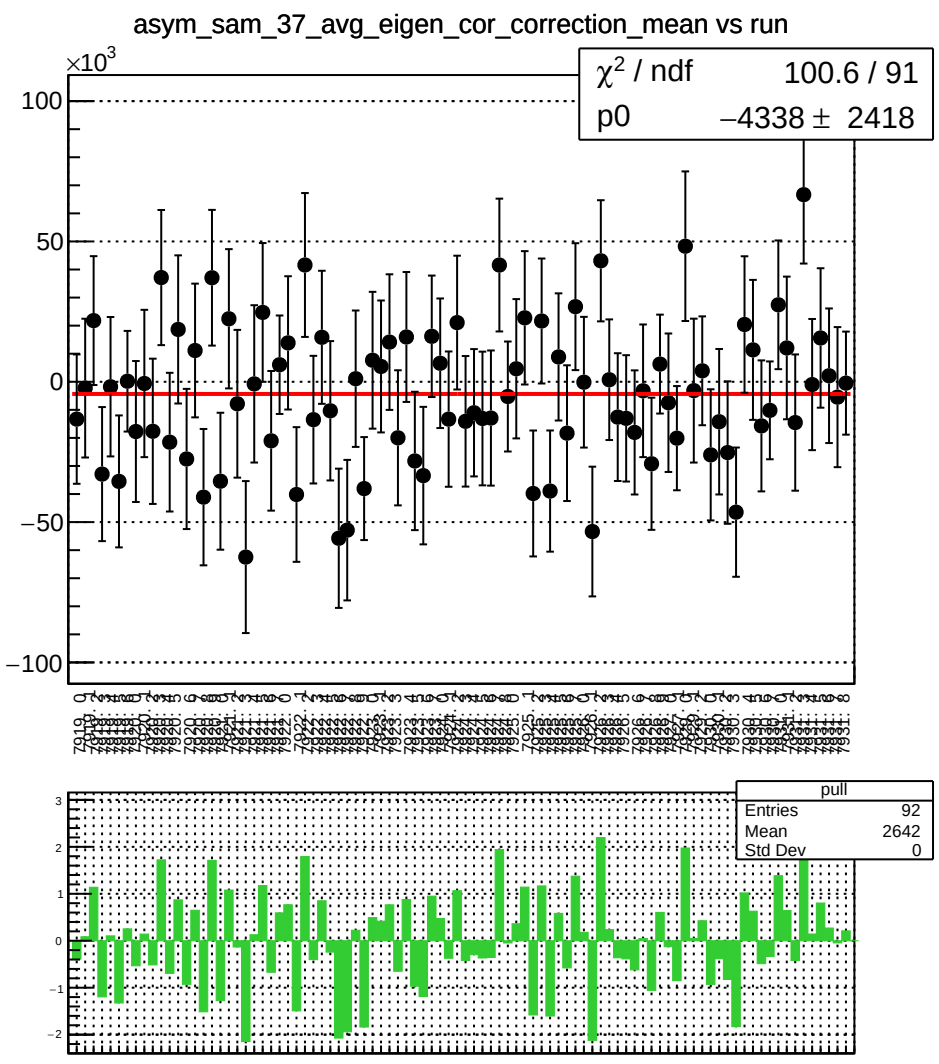

pull1D
Entries 92
Mean 0.001151
Std Dev 1.046
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

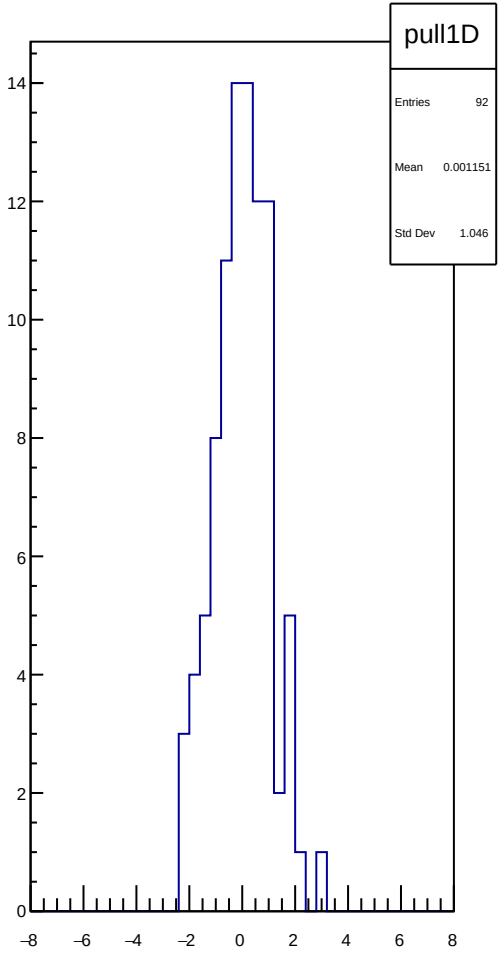

asym_sam_37_avg_cor_correction_rms vs run
χ² / ndf 3898 / 91
p0 2280 ± 1.71
2700
2600
2500
2400
2300
2200
2100
2000

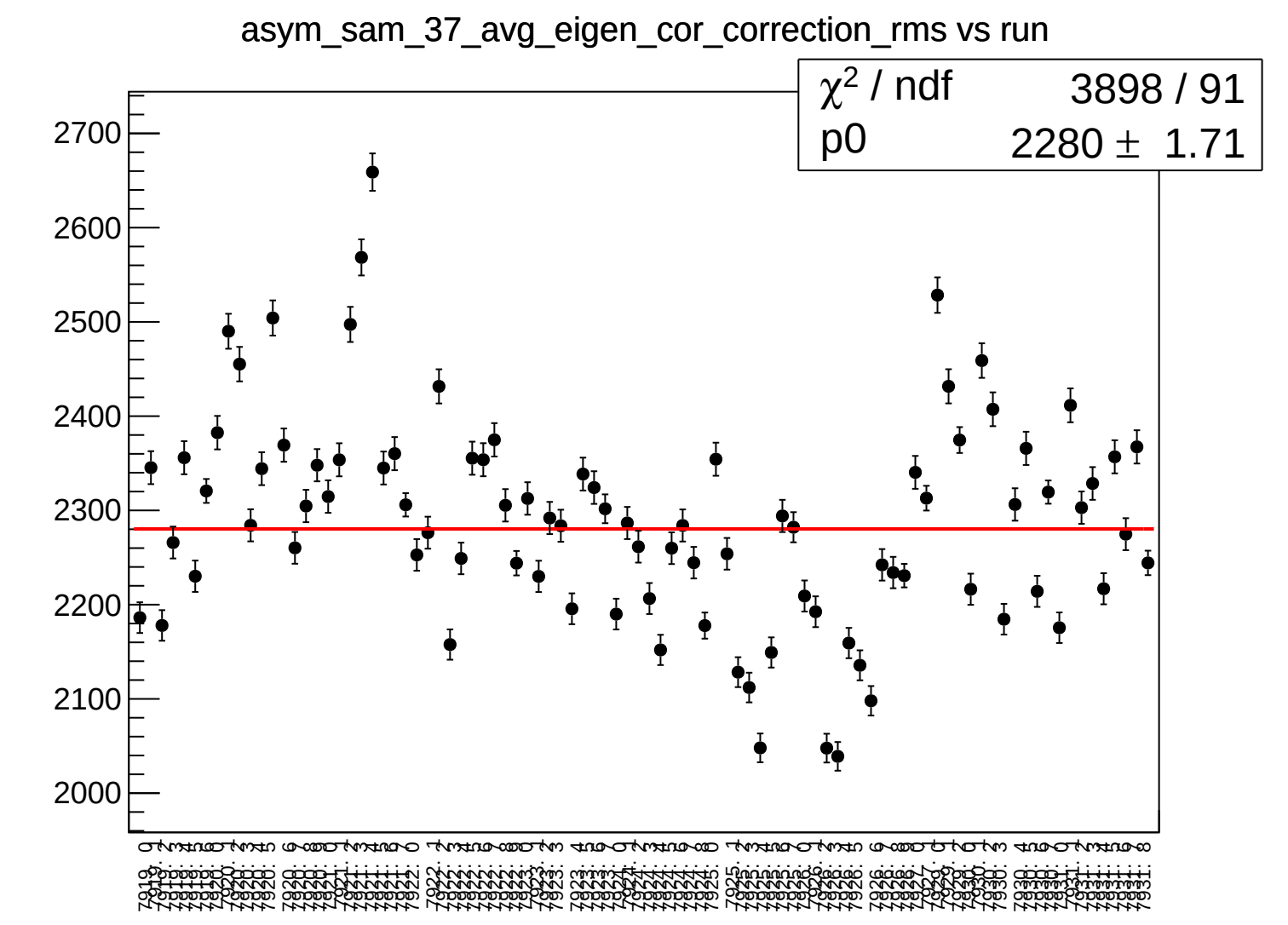

eigen_cor_asym_sam_37_avg_mean vs run
χ² / ndf 107.9 / 91
p0 −20.49 ± 263.5
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −82.51
Std Dev 0
3
2
1
0
−1
−2
−3

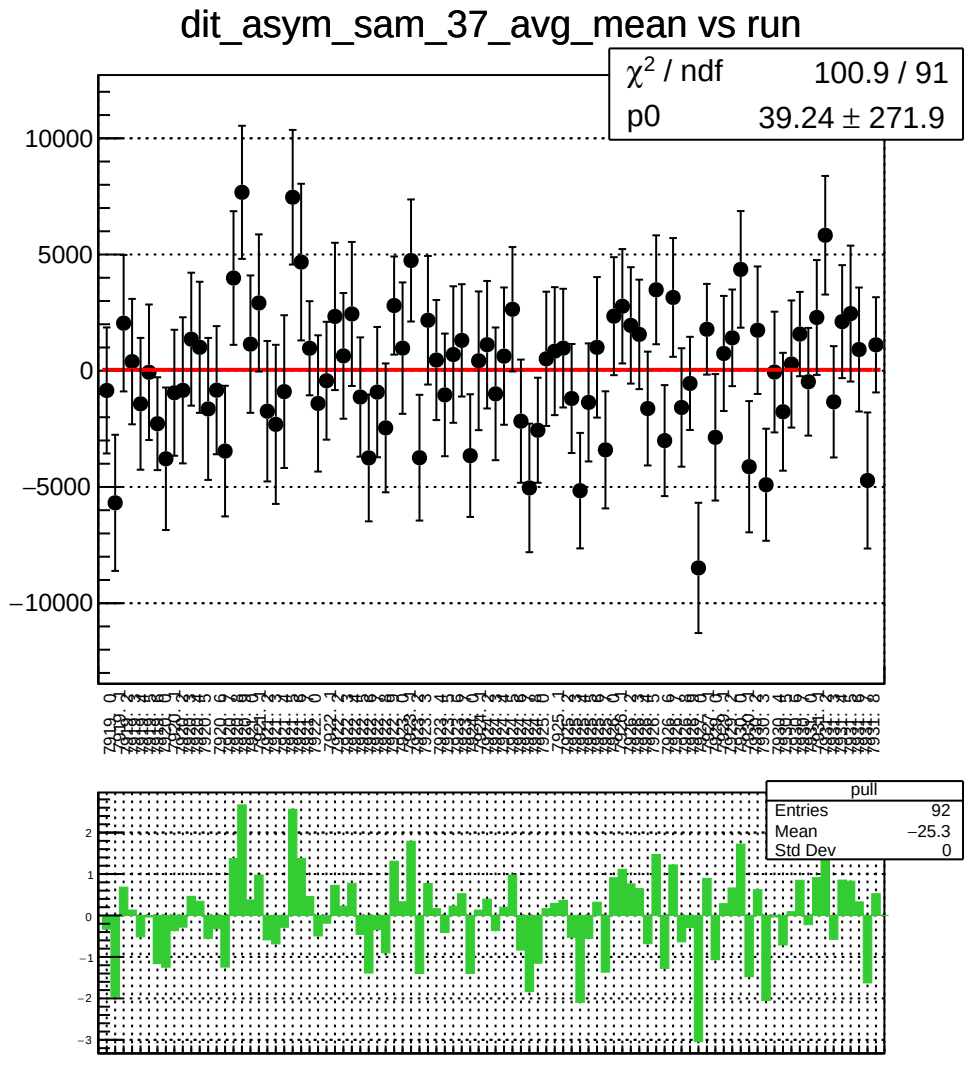

pull1D
Entries 92
Mean −0.0064
Std Dev 1.083
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

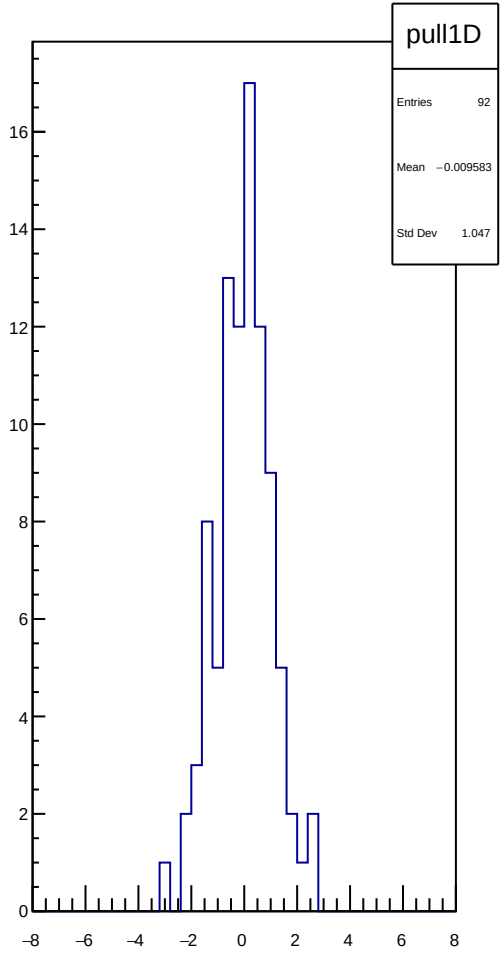

eigen_cor_asym_sam_37_avg_rms vs run
χ² / ndf 1.195e+04 / 91
p0 247.9 ± 0.1863
320
300
280
260
240
220
200

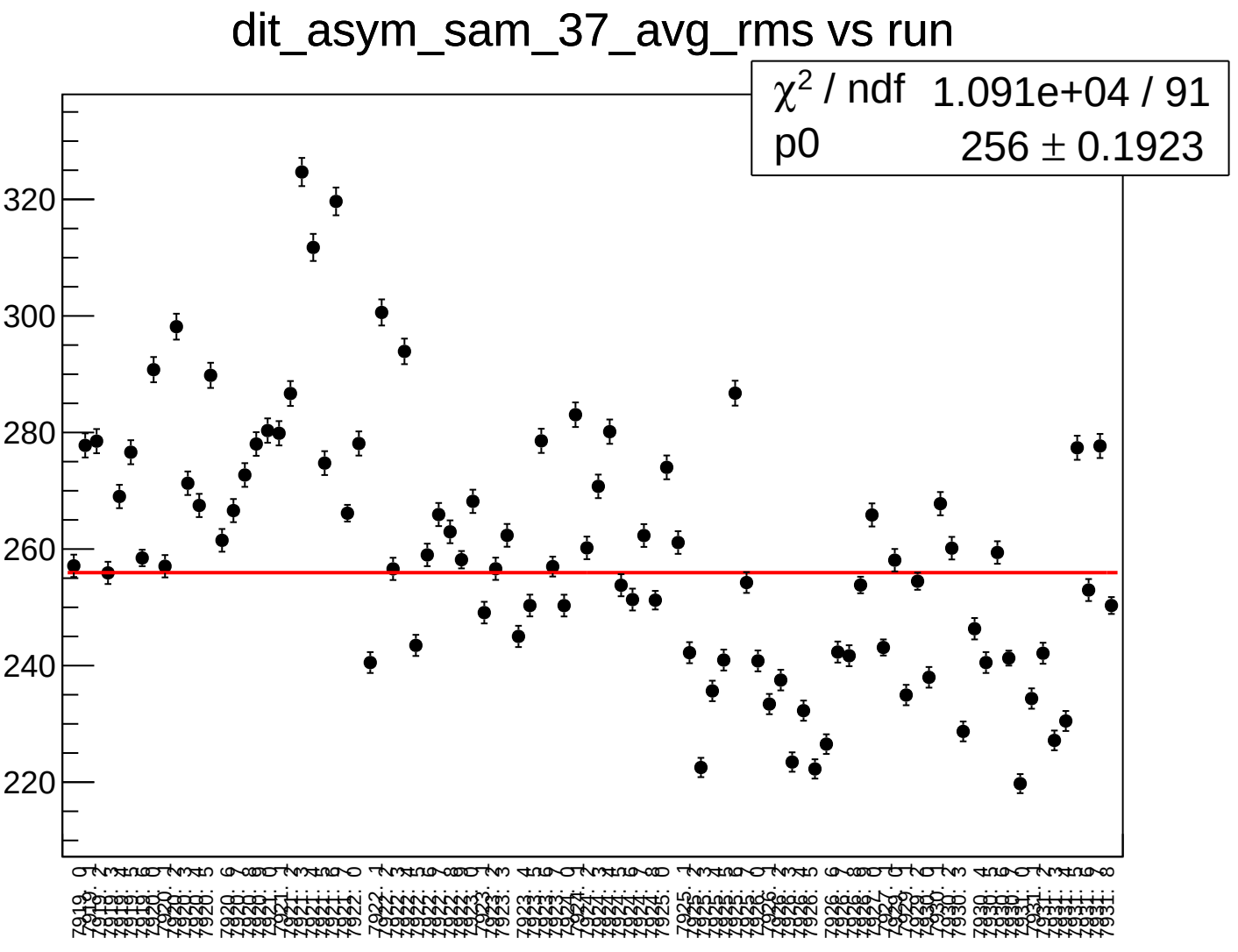

asym_sam_37_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 100.6 / 91
p0 −4338 ± 2418
100
50
0
−50
−100
pull
Entries 92
Mean 2642
Std Dev 0
3
2
1
0
−1
−2

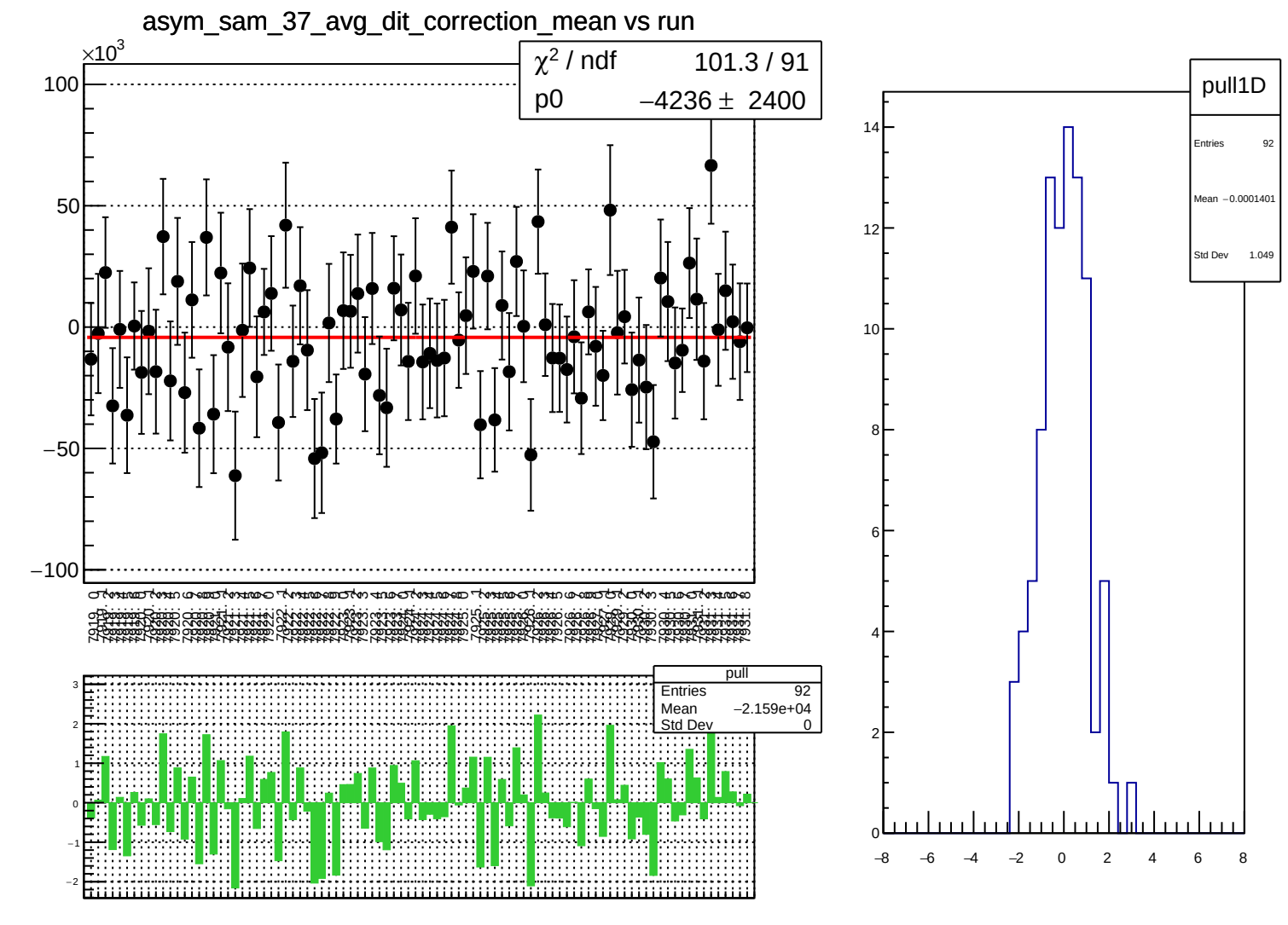

pull1D
Entries 92
Mean 0.001151
Std Dev 1.046
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

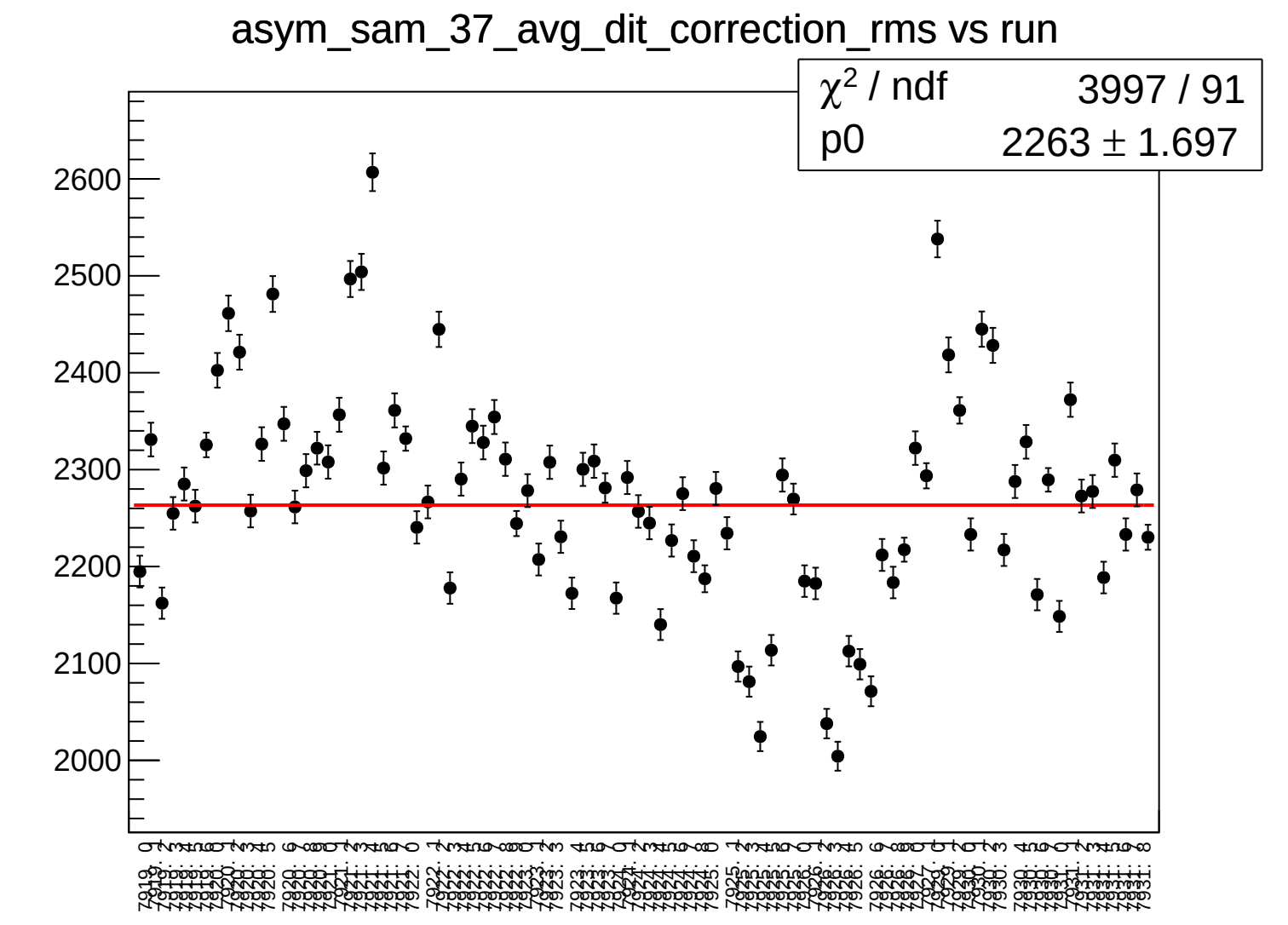

asym_sam_37_avg_eigen_cor_correction_rms vs run
χ² / ndf 3898 / 91
p0 2280 ± 1.71
2700
2600
2500
2400
2300
2200
2100
2000

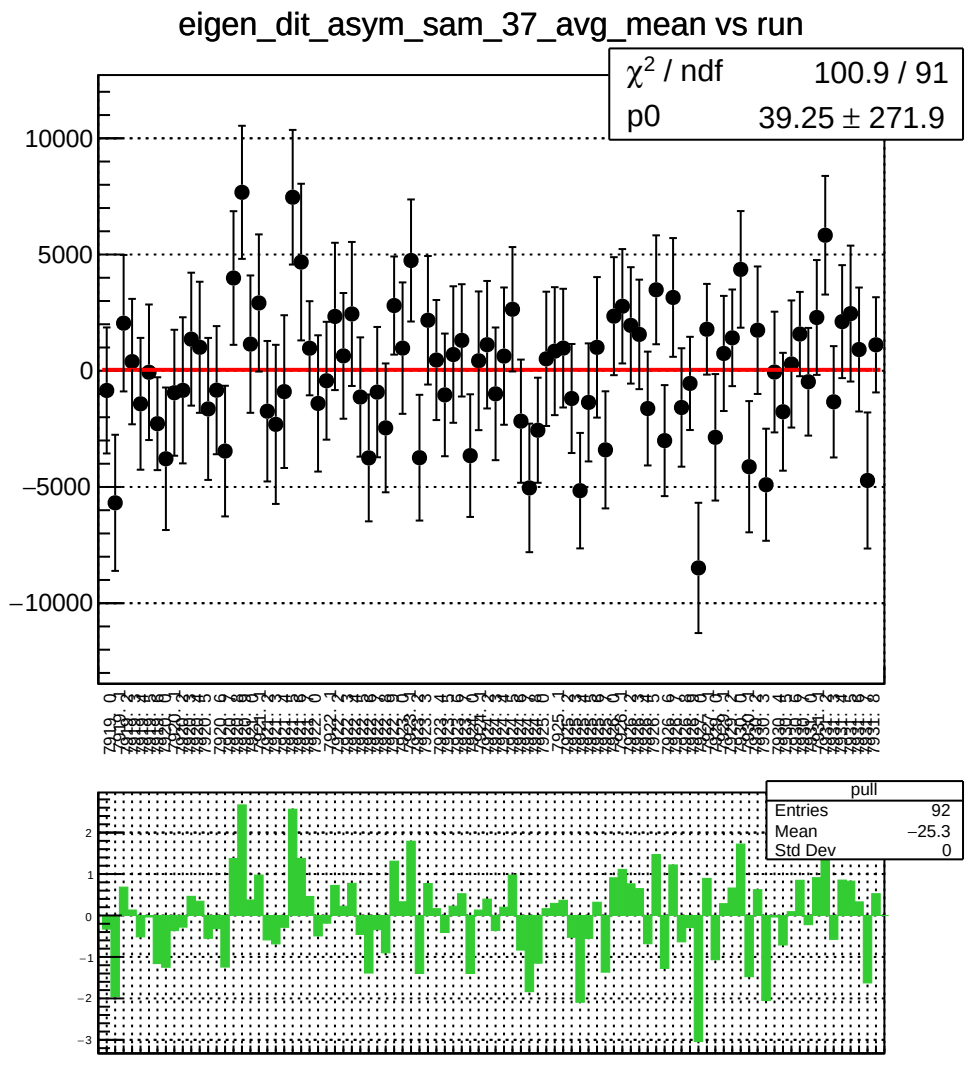

dit_asym_sam_37_avg_mean vs run
χ^2 / ndf 100.9 / 91
p0 39.24 ± 271.9
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −25.3
Std Dev 0
2
1
0
−1
−2
−3

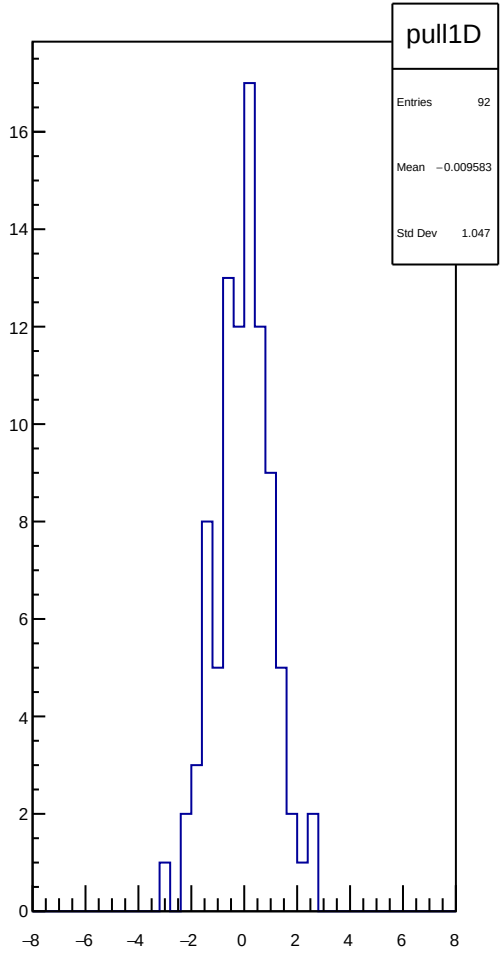

pull1D
Entries 92
Mean −0.009583
Std Dev 1.047
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

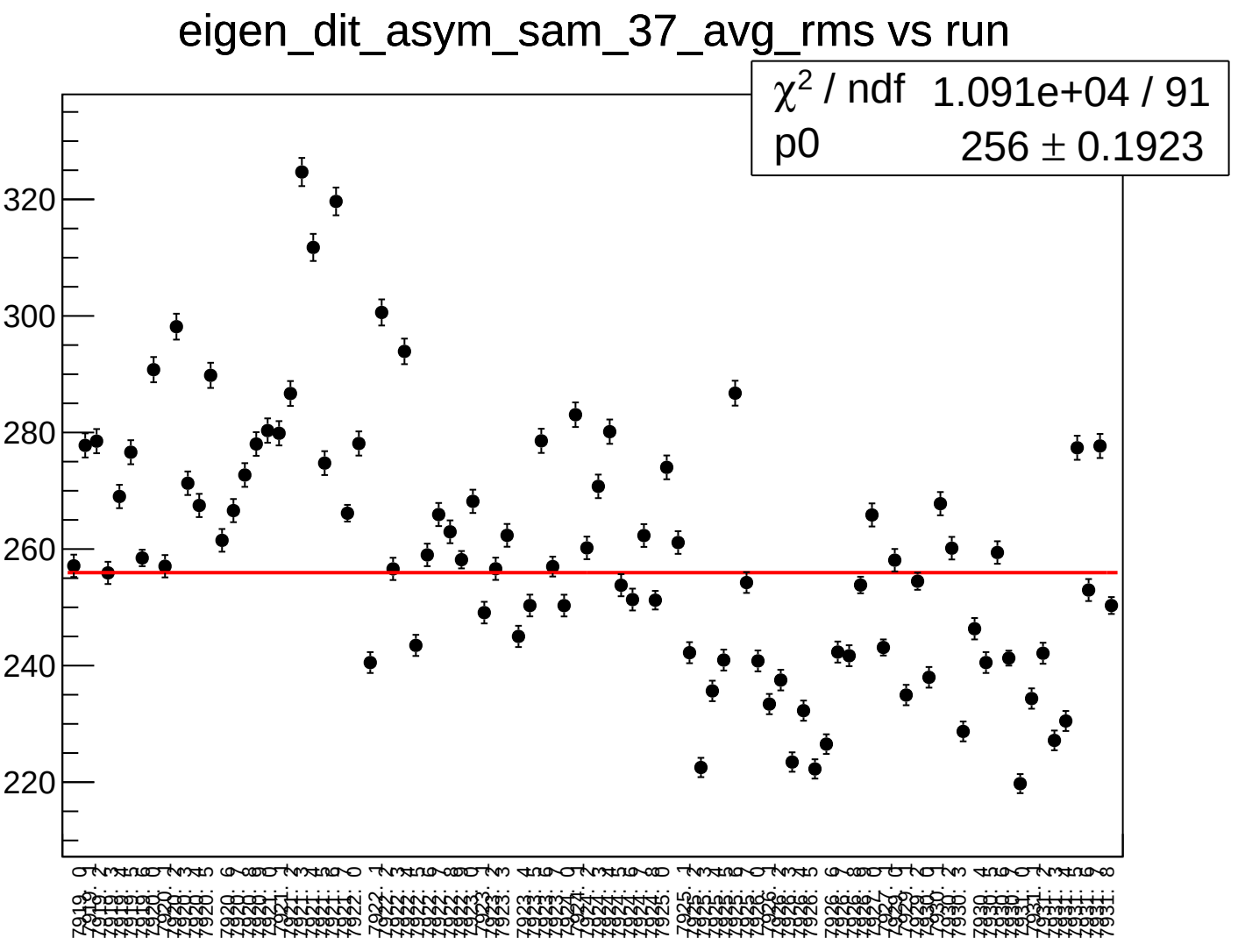

dit_asym_sam_37_avg_rms vs run
χ² / ndf 1.091e+04 / 91
p0 256 ± 0.1923
320
300
280
260
240
220

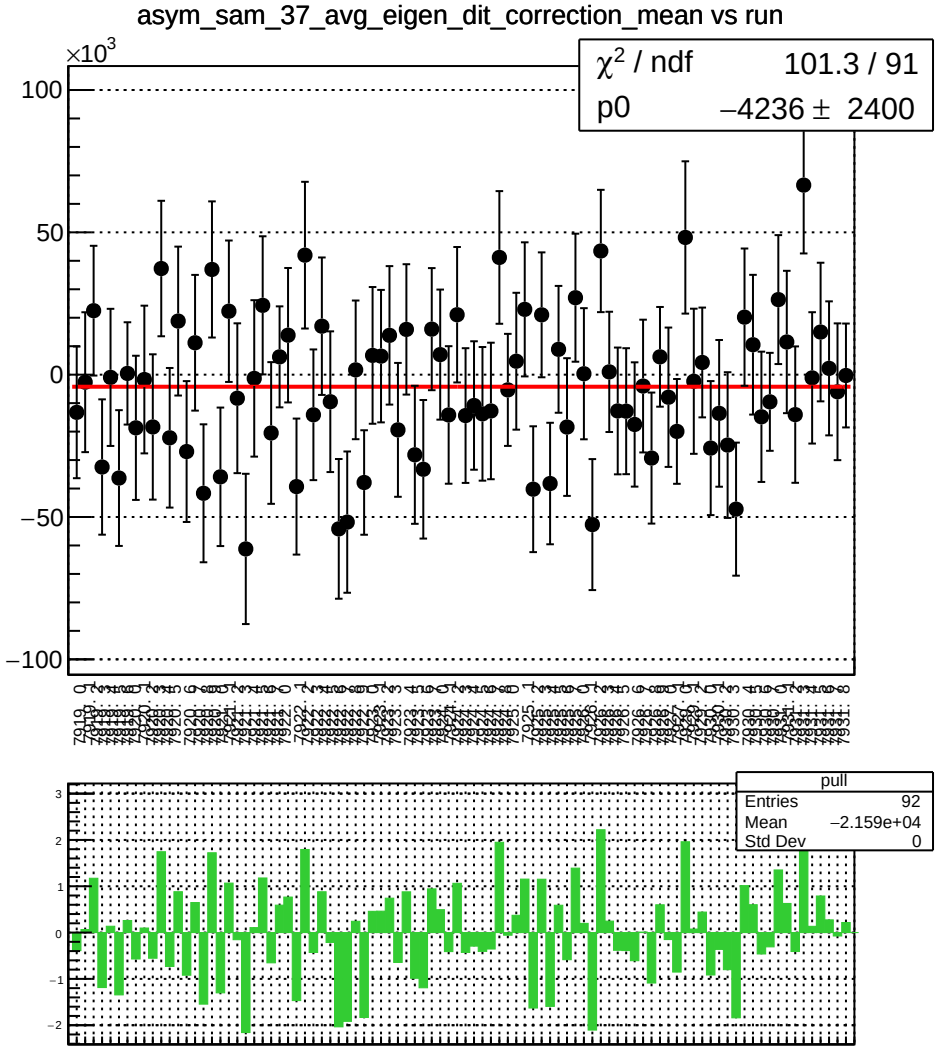

asym_sam_37_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 101.3 / 91
p0 −4236 ± 2400
100
50
0
−50
−100
pull
Entries 92
Mean −2.159e+04
Std Dev 0
pull1D
Entries 92
Mean −0.0001401
Std Dev 1.049

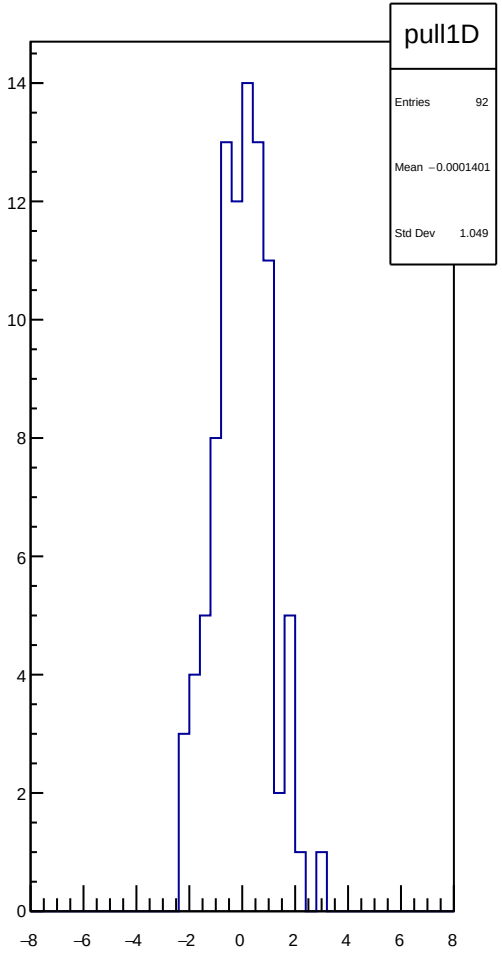

asym_sam_37_avg_dit_correction_rms vs run
χ² / ndf 3997 / 91
p0 2263 ± 1.697
2600
2500
2400
2300
2200
2100
2000

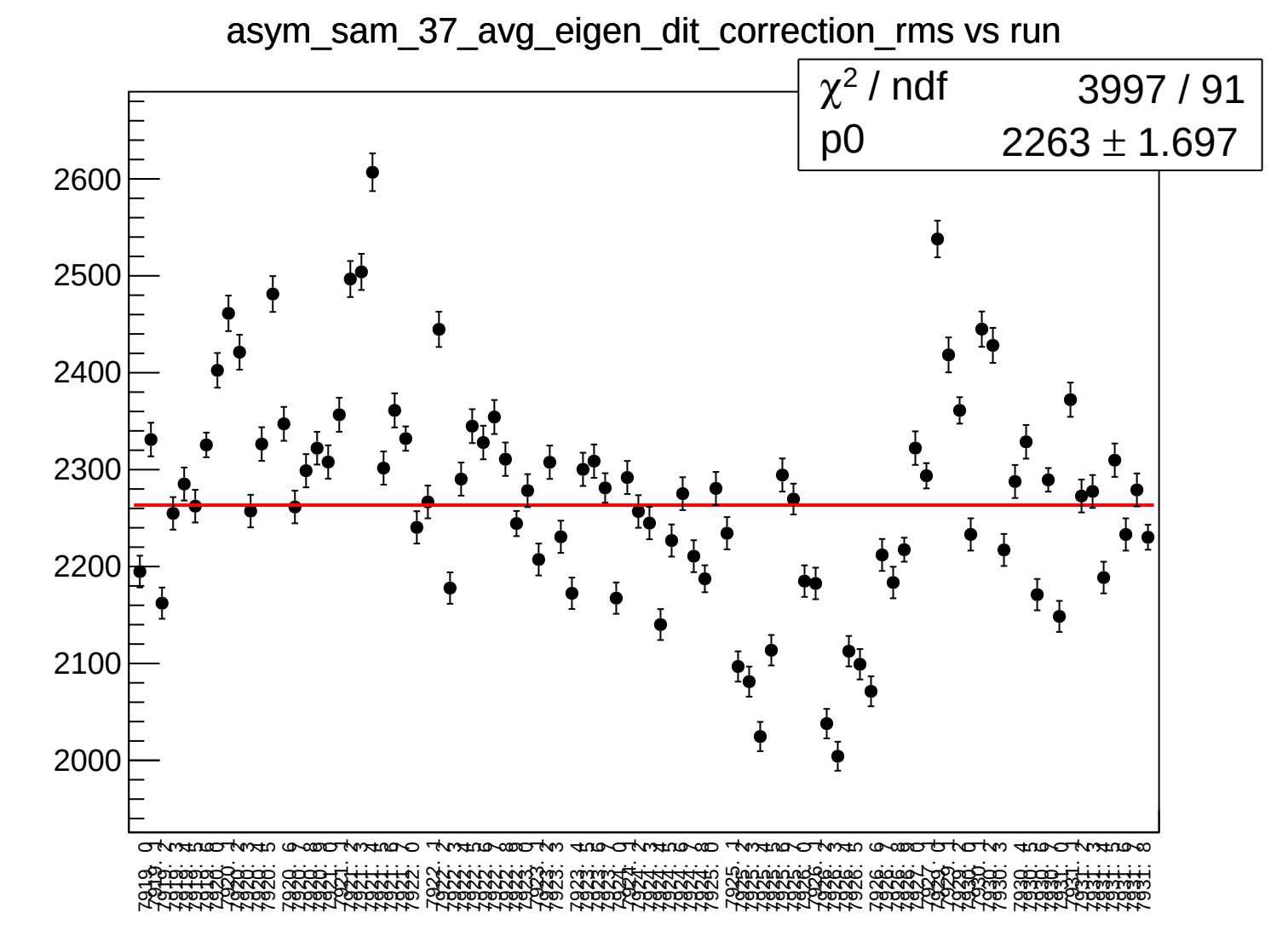

eigen_dit_asym_sam_37_avg_mean vs run
χ² / ndf 100.9 / 91
p0 39.25 ± 271.9
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −25.3
Std Dev 0
2
1
0
−1
−2
−3

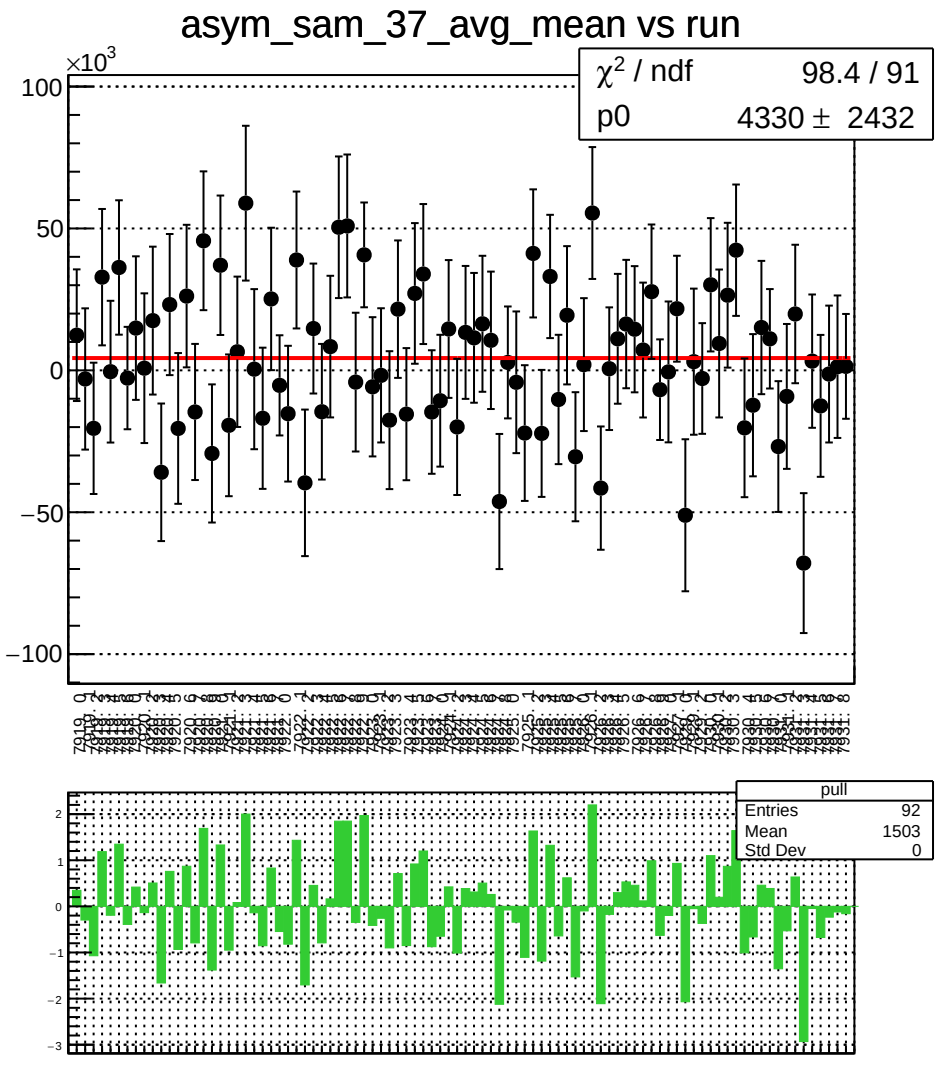

pull1D
Entries 92
Mean −0.009583
Std Dev 1.047
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

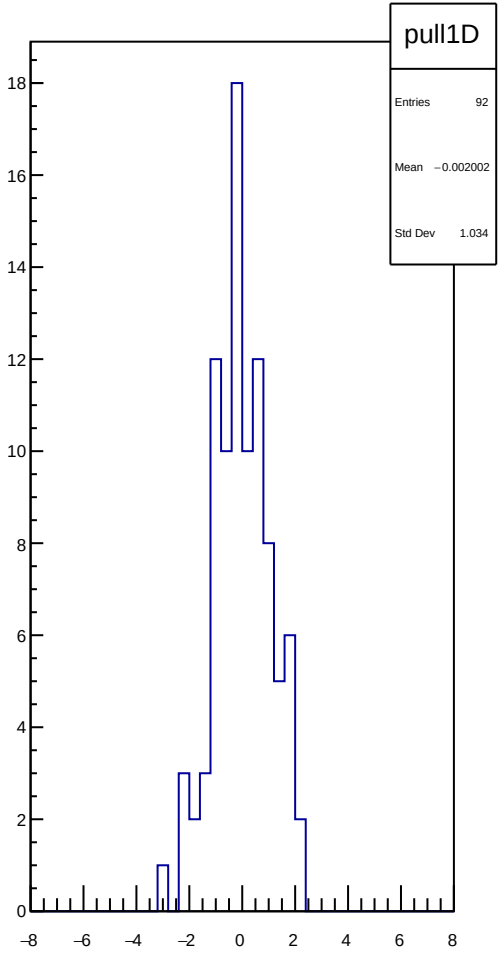

eigen_dit_asym_sam_37_avg_rms vs run
χ² / ndf 1.091e+04 / 91
p0 256 ± 0.1923
320
300
280
260
240
220

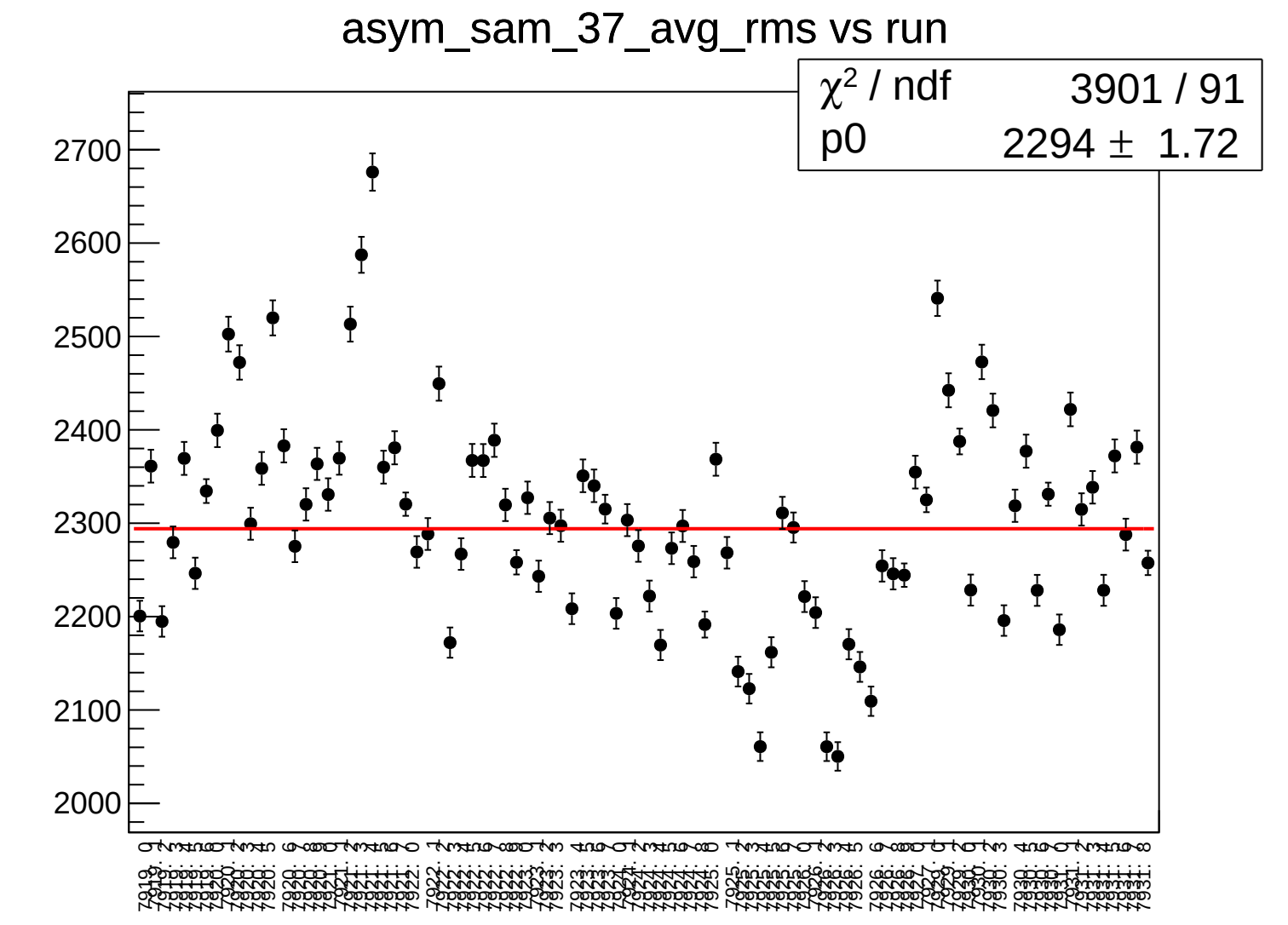

asym_sam_37_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 101.3 / 91
p0 −4236 ± 2400
100
50
0
−50
−100
pull
Entries 92
Mean −2.159e+04
Std Dev 0
3
2
1
0
−1
−2

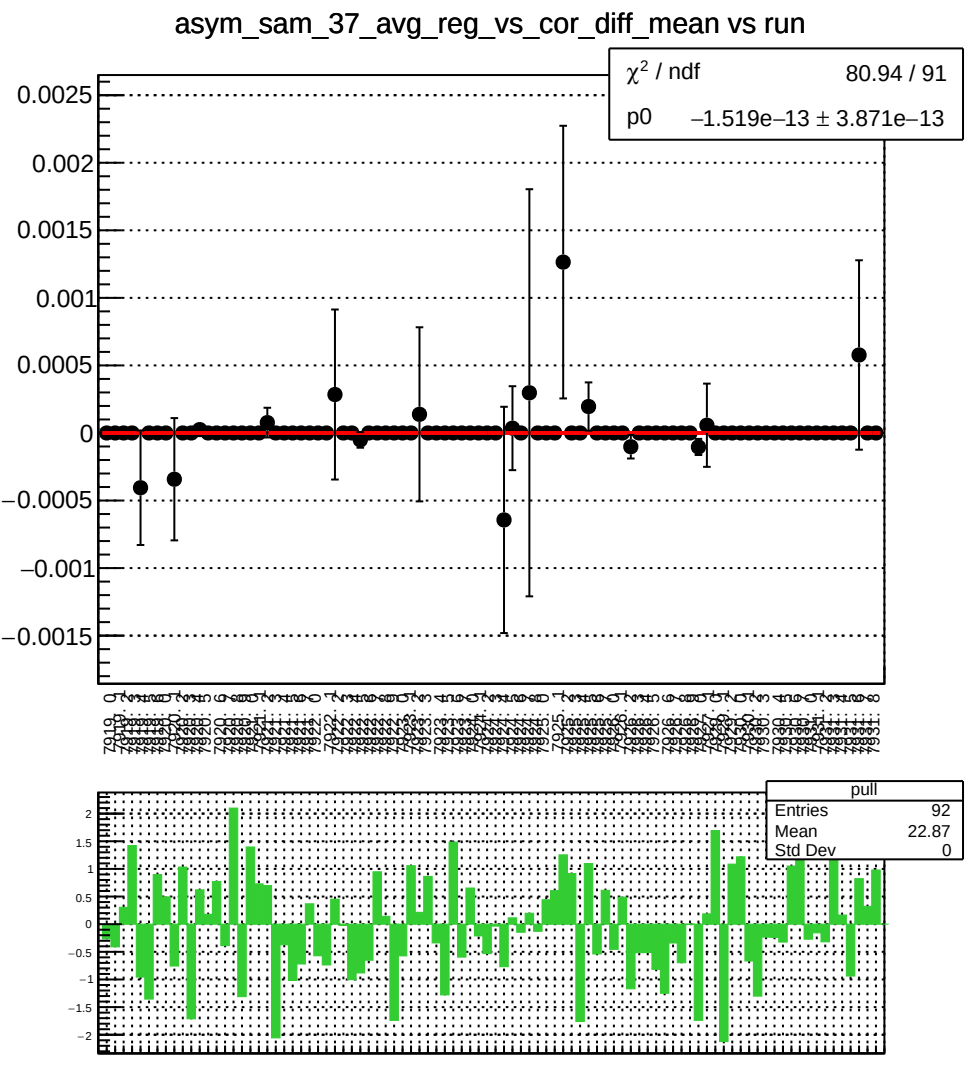

pull1D
Entries 92
Mean −0.0001401
Std Dev 1.049
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

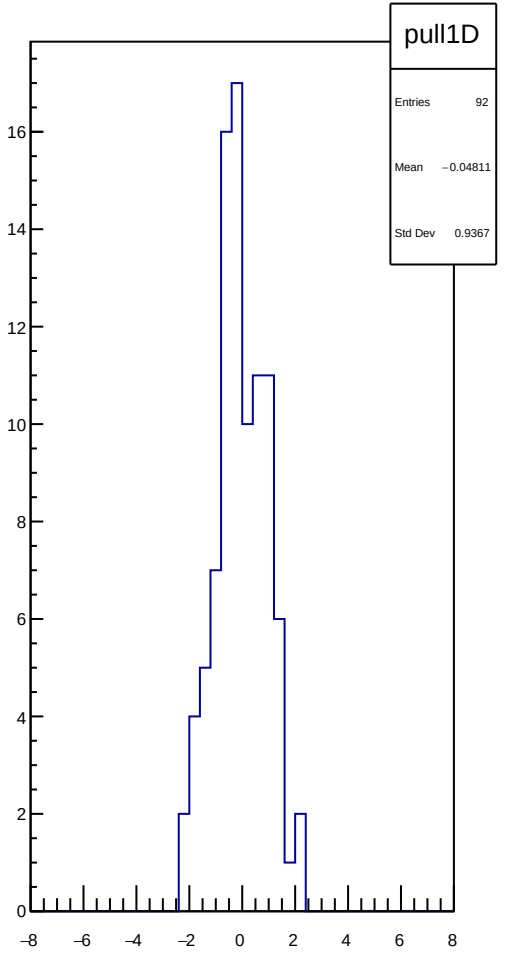

asym_sam_37_avg_eigen_dit_correction_rms vs run
χ² / ndf 3997 / 91
p0 2263 ± 1.697
2600
2500
2400
2300
2200
2100
2000

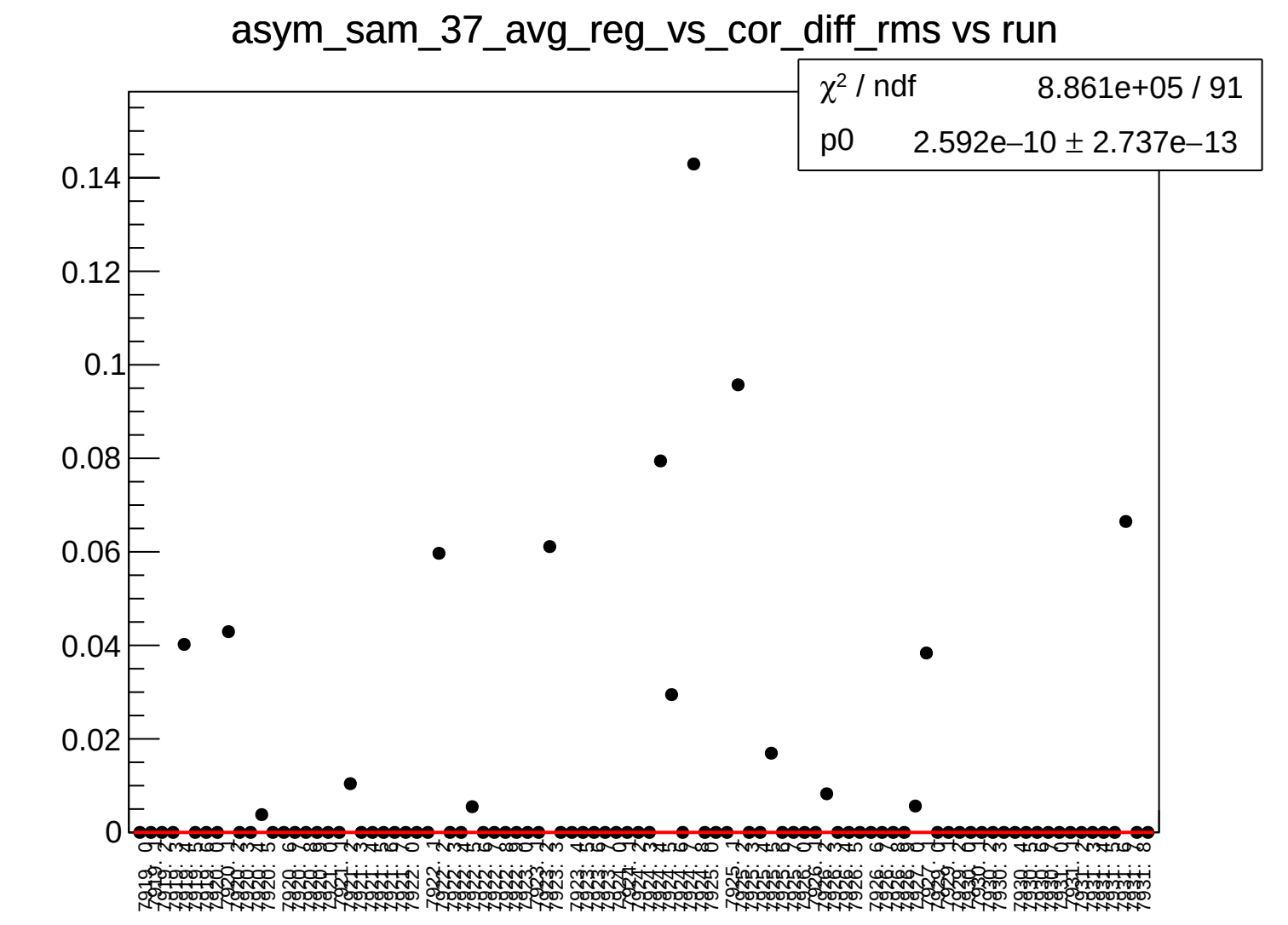

asym_sam_37_avg_mean vs run
×10^3
χ^2 / ndf 98.4 / 91
p0 4330 ± 2432
pull
Entries 92
Mean 1503
Std Dev 0

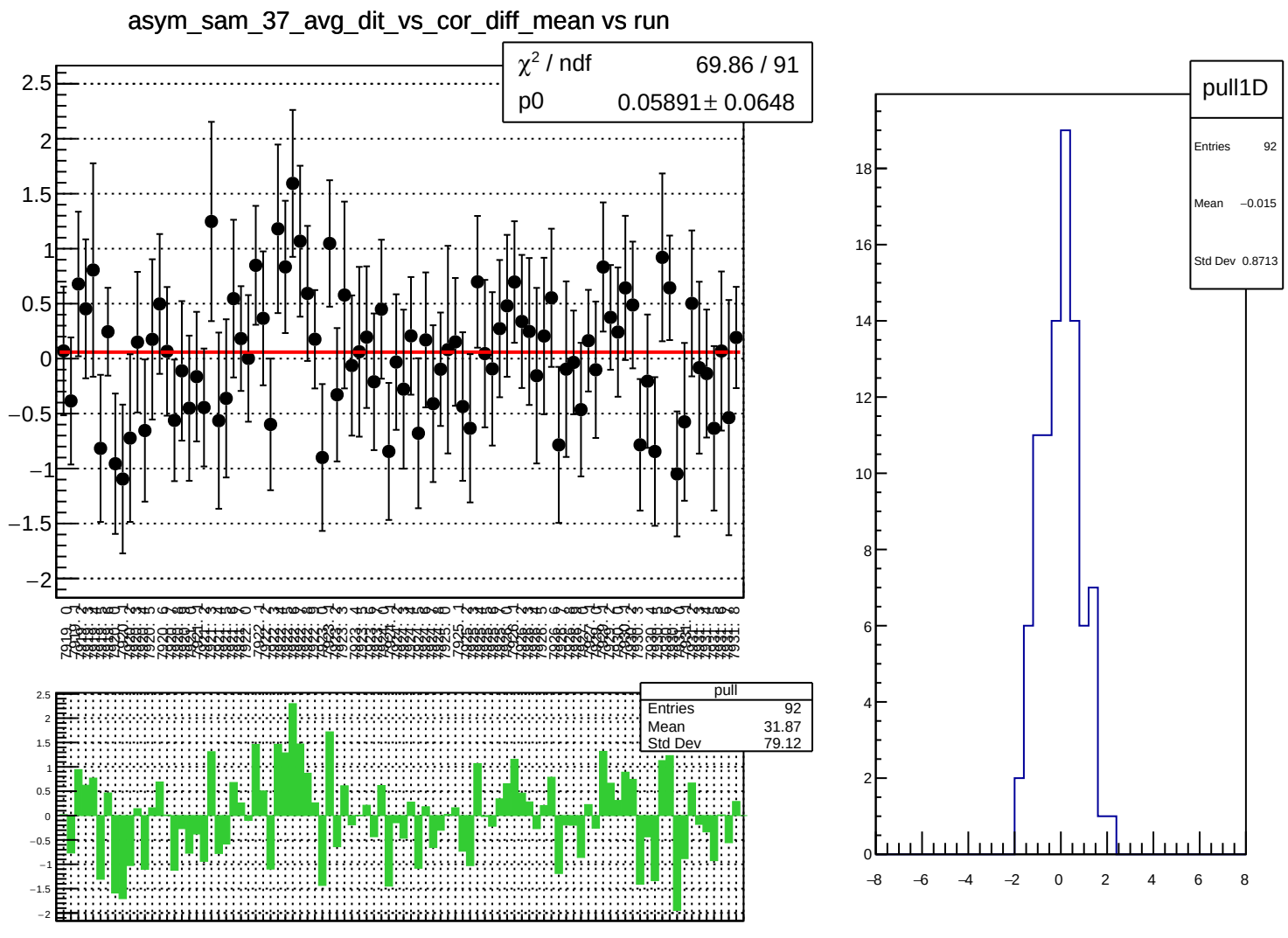

pull1D
Entries 92
Mean −0.002002
Std Dev 1.034

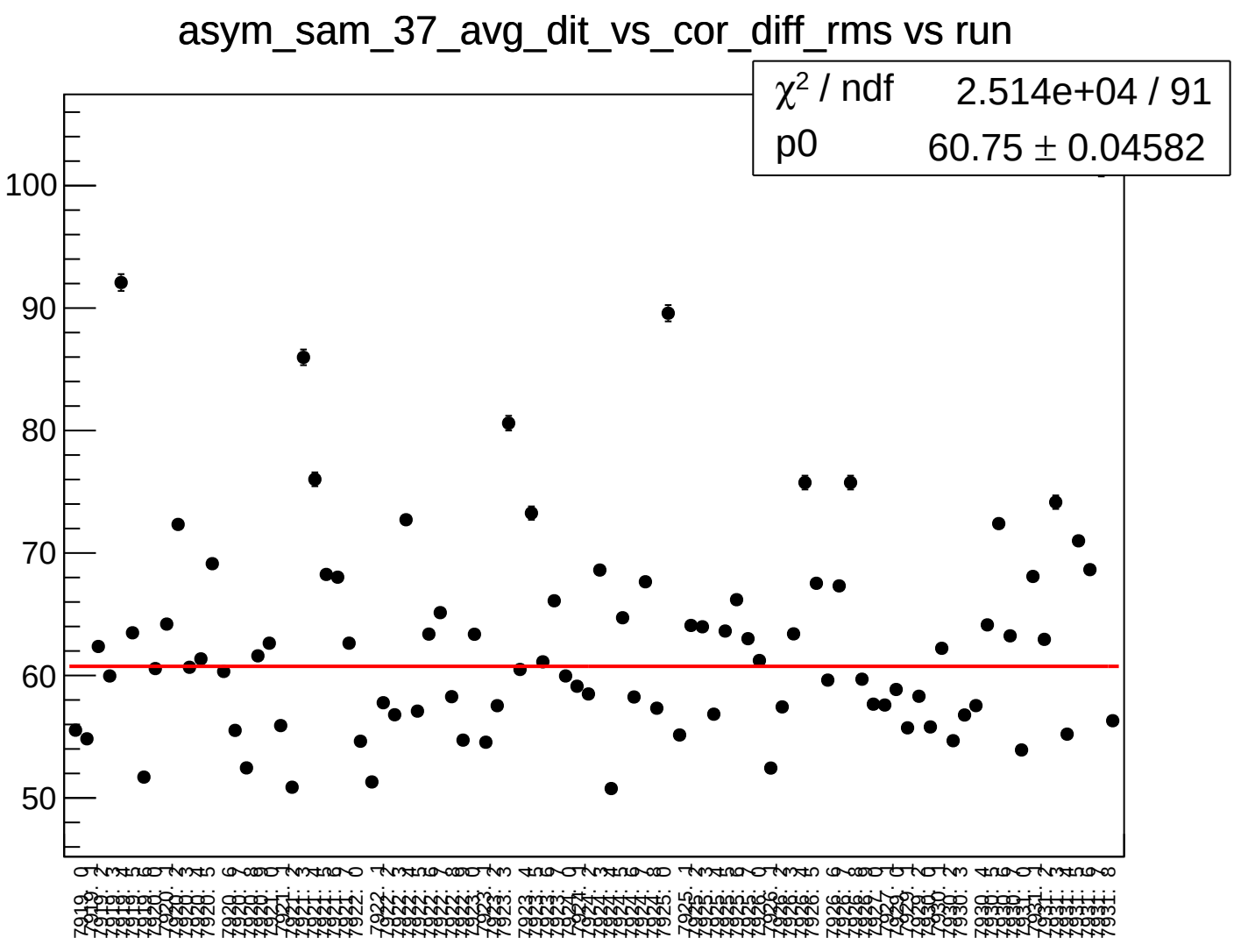

asym_sam_37_avg_rms vs run
χ² / ndf 3901 / 91
p0 2294 ± 1.72
2700
2600
2500
2400
2300
2200
2100
2000

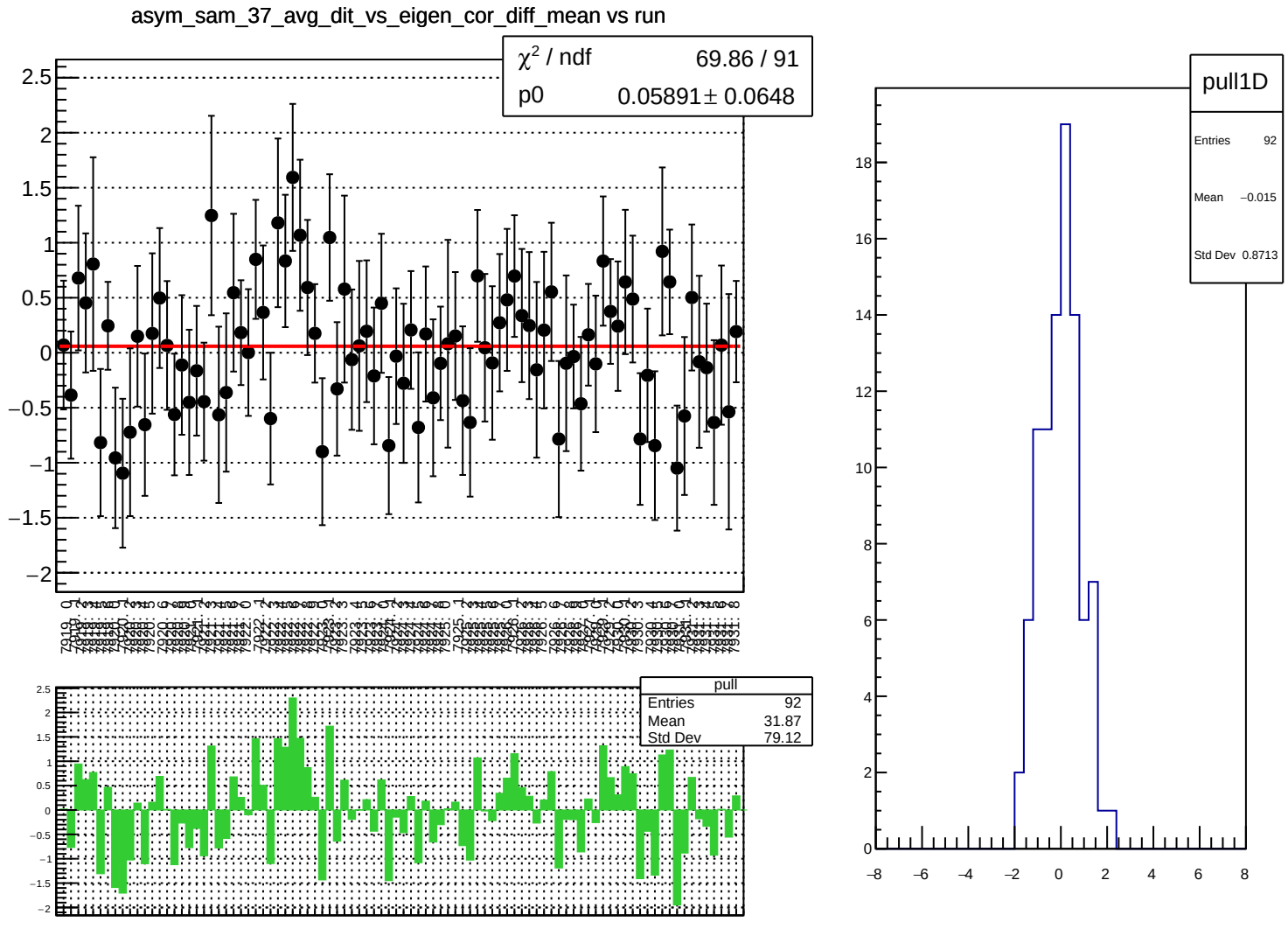

asym_sam_37_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 80.94 / 91
p0 −1.519e−13 ± 3.871e−13
0.0025
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 92
Mean 22.87
Std Dev 0

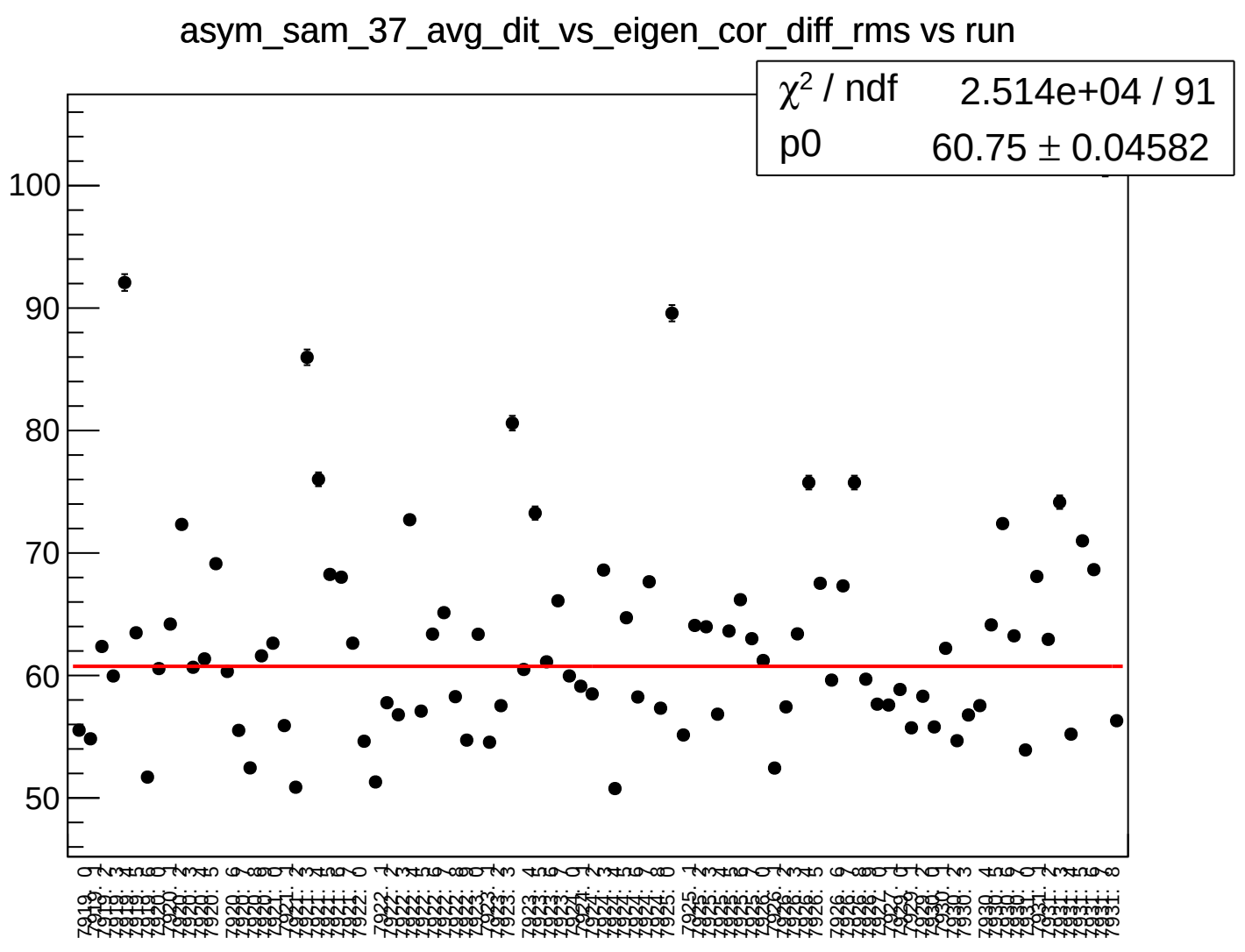

pull1D
Entries 92
Mean −0.04811
Std Dev 0.9367
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

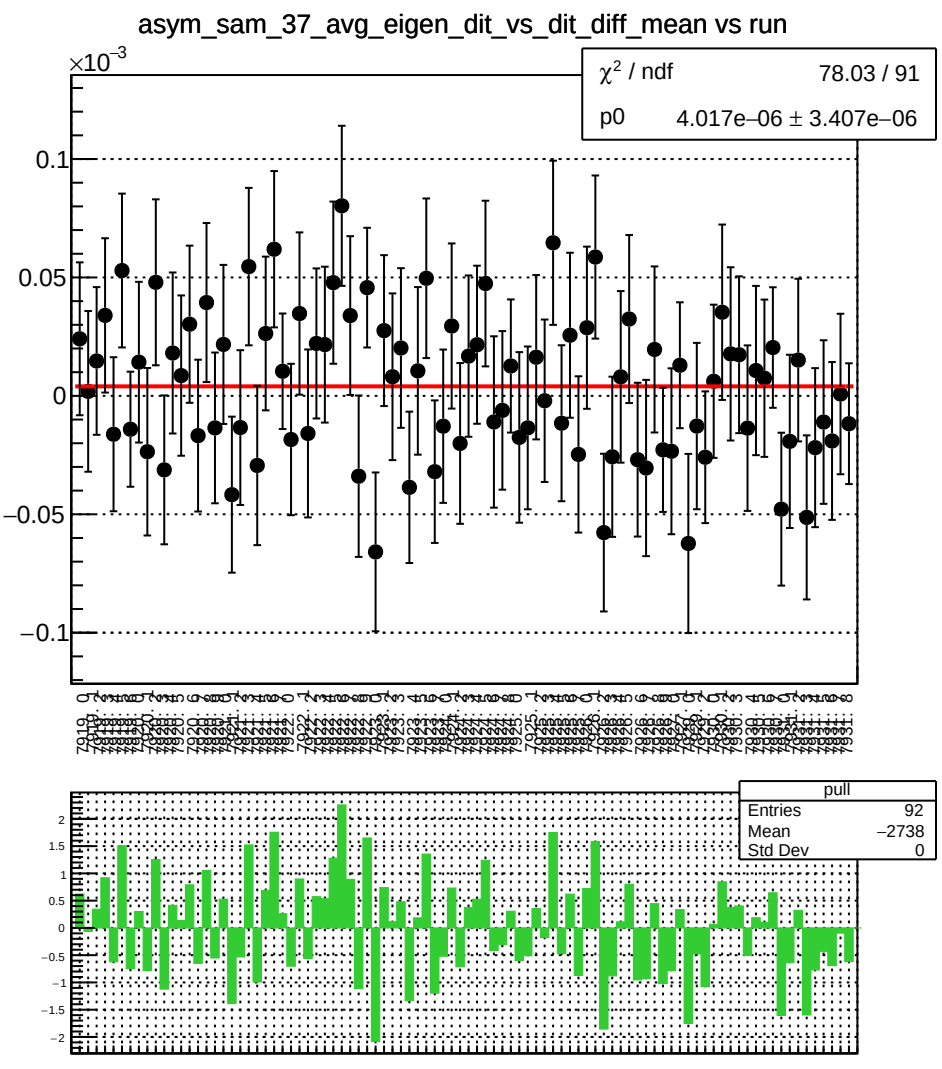

asym_sam_37_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.861e+05 / 91
p0 2.592e−10 ± 2.737e−13
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

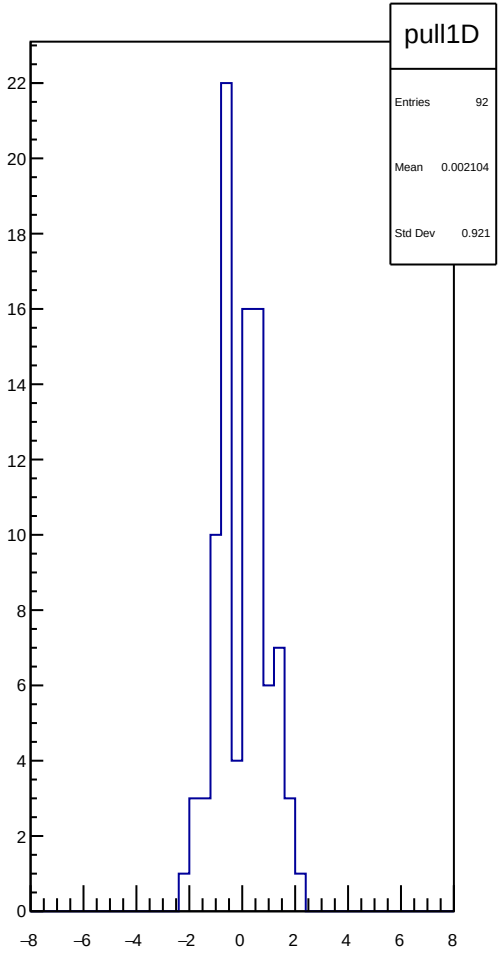

asym_sam_37_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 69.86 / 91
p0 0.05891 ± 0.0648
pull
Entries 92
Mean 31.87
Std Dev 79.12
pull1D
Entries 92
Mean −0.015
Std Dev 0.8713

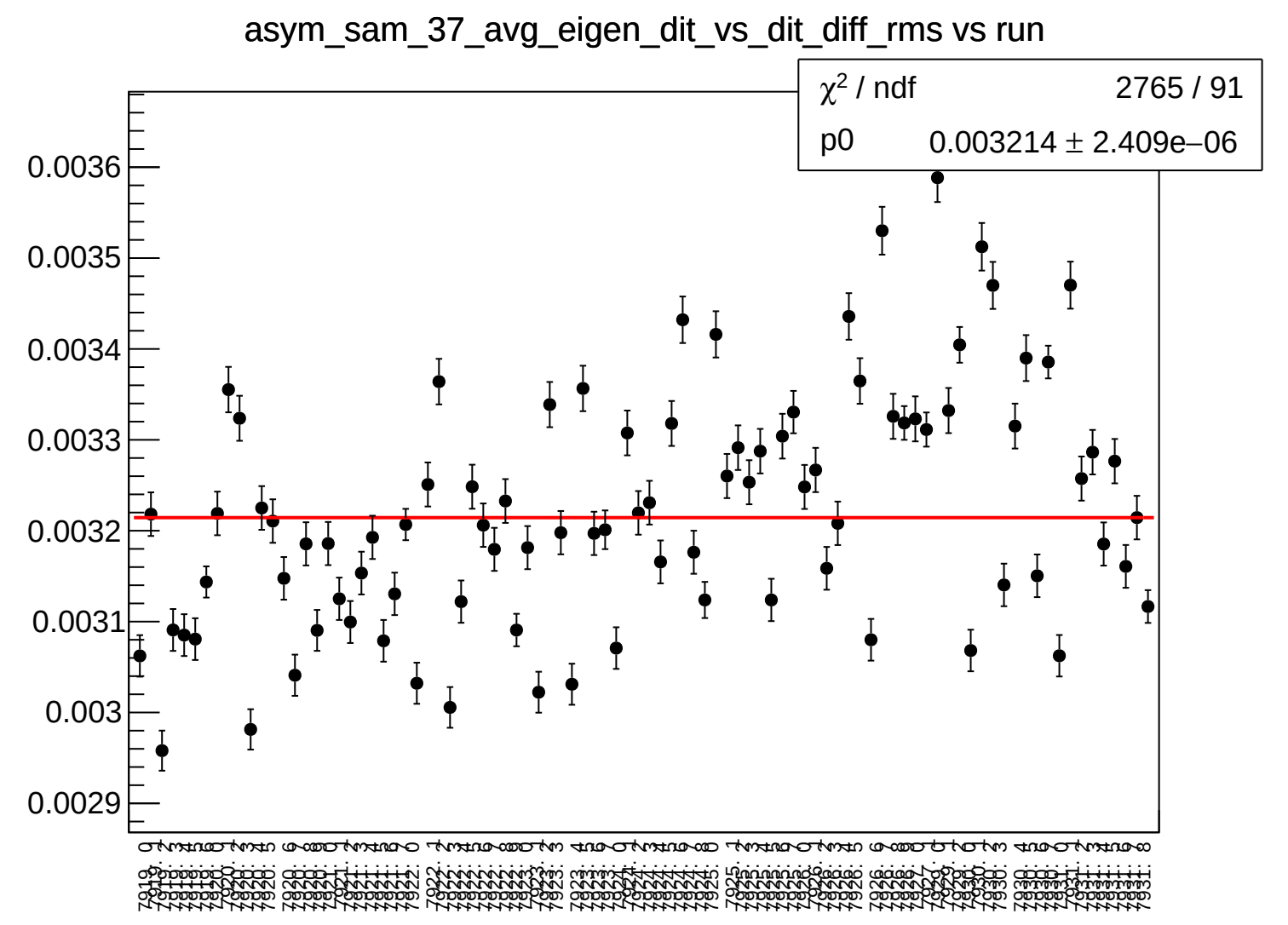

asym_sam_37_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.514e+04 / 91
p0 60.75 ± 0.04582
100
90
80
70
60
50

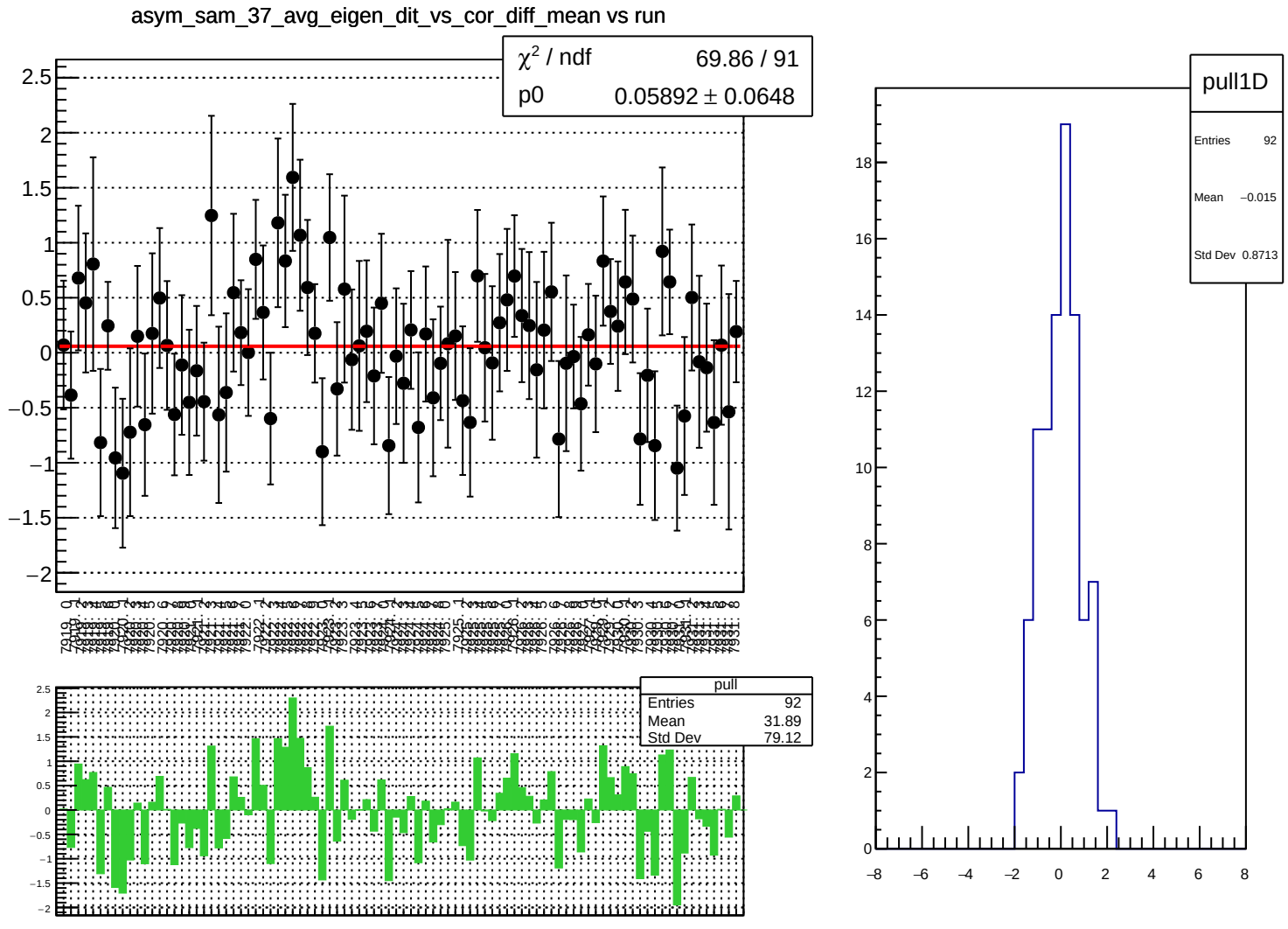

asym_sam_37_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.86 / 91
p0 0.05891 ± 0.0648
pull
Entries 92
Mean 31.87
Std Dev 79.12
pull1D
Entries 92
Mean −0.015
Std Dev 0.8713

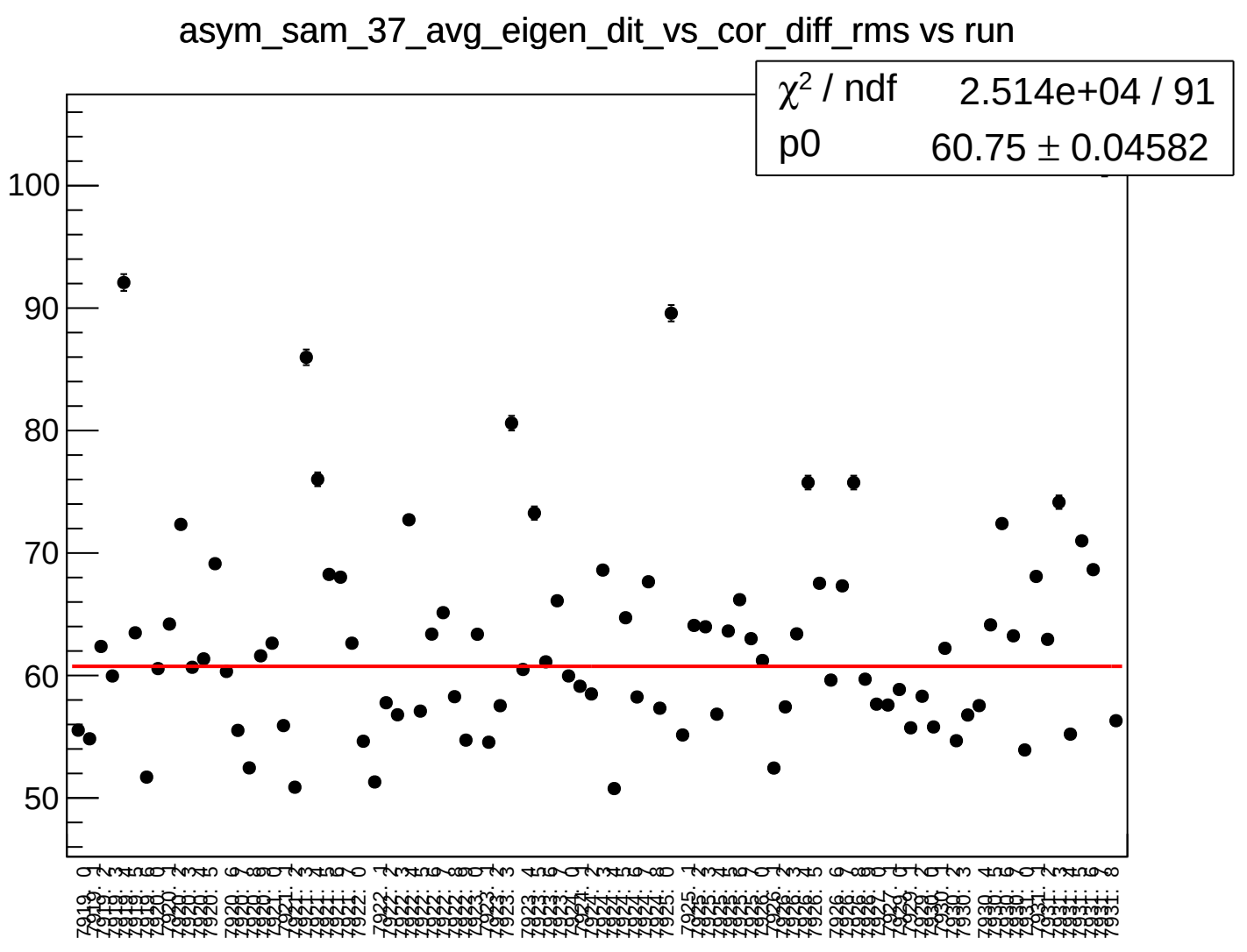

asym_sam_37_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.514e+04 / 91
p0 60.75 ± 0.04582
100
90
80
70
60
50

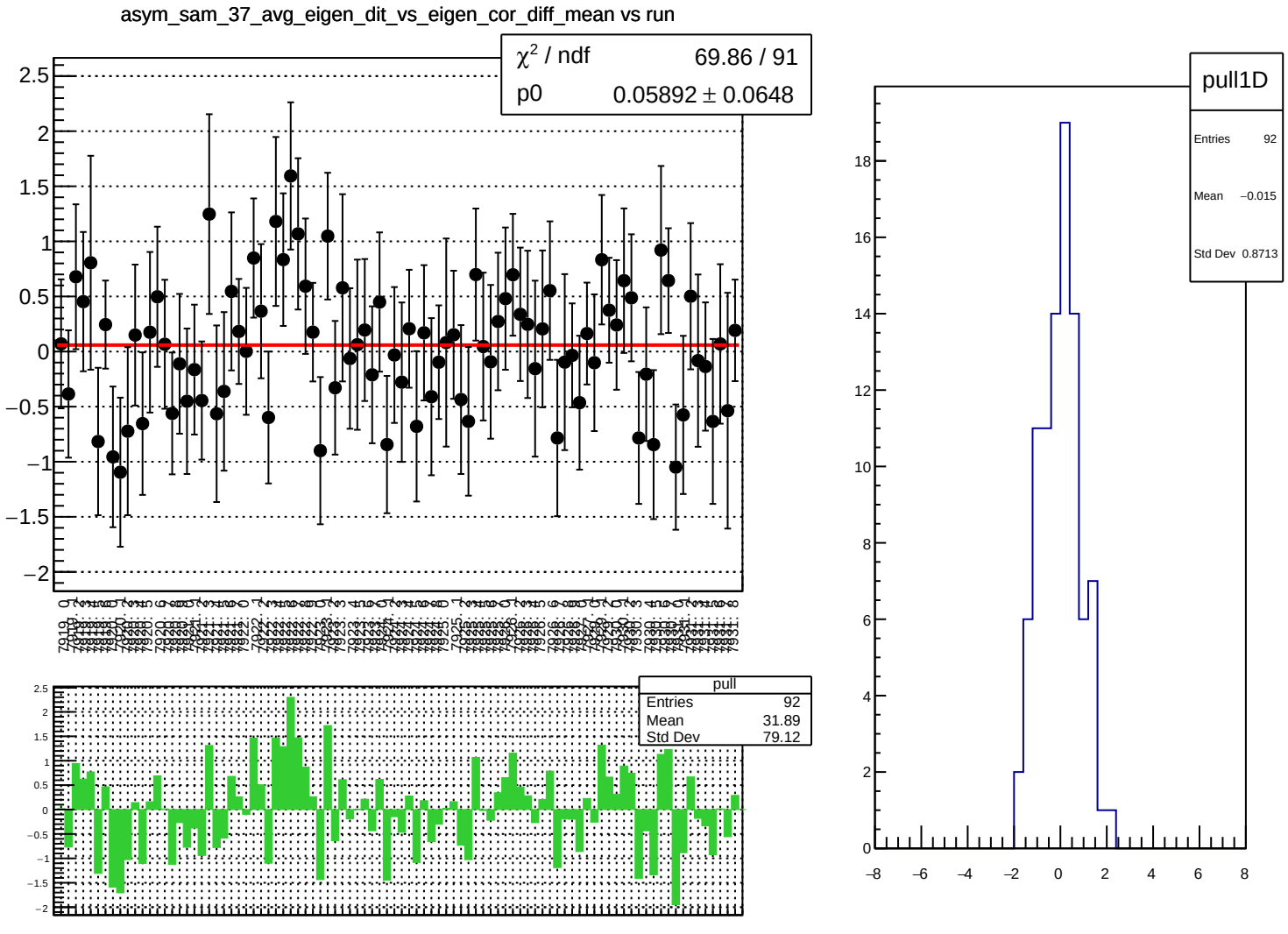

asym_sam_37_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 78.03 / 91
p0 4.017e−06 ± 3.407e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 92
Mean −2738
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

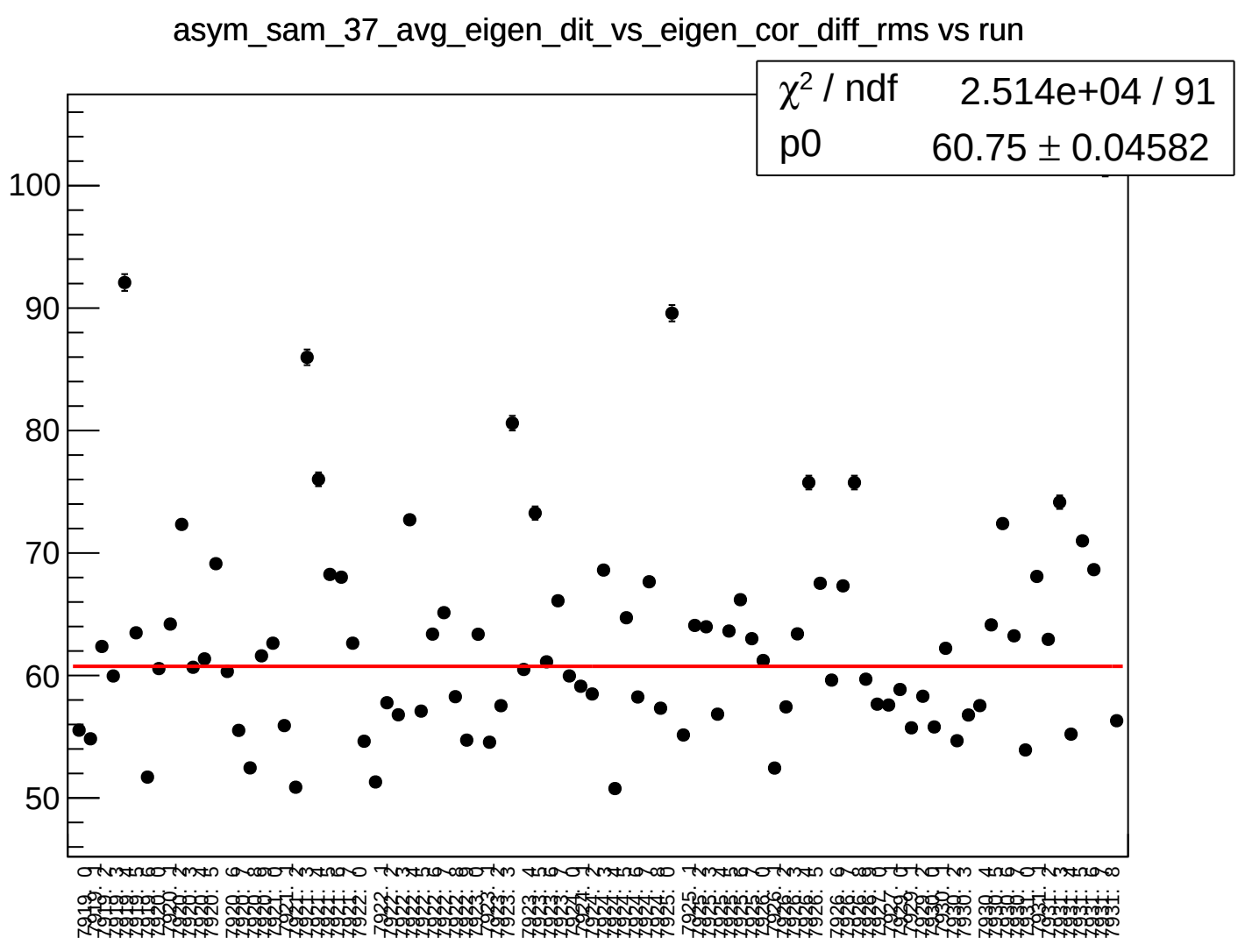

pull1D
Entries 92
Mean 0.002104
Std Dev 0.921
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

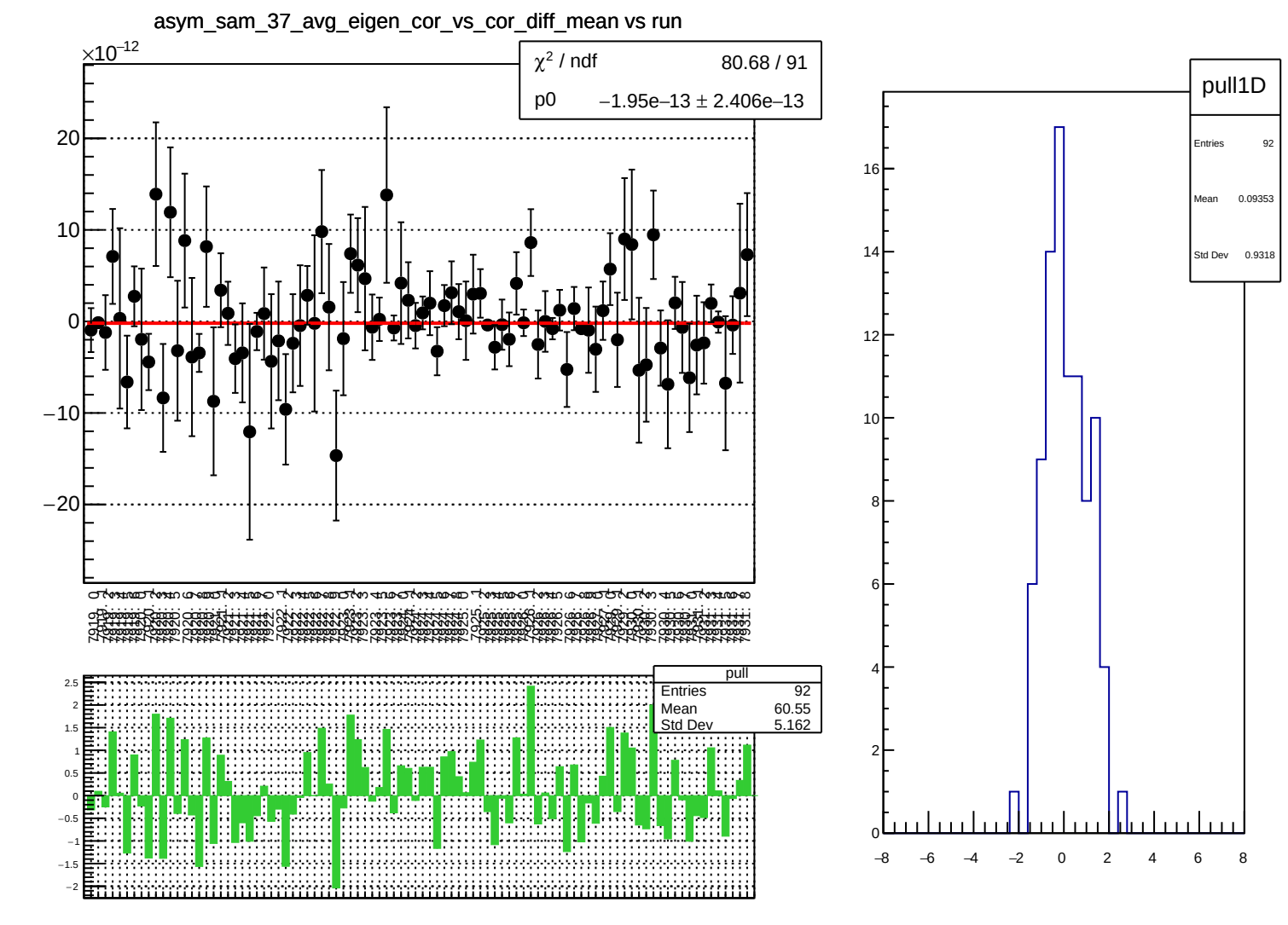

asym_sam_37_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2765 / 91
p0 0.003214 ± 2.409e−06
0.0036
0.0035
0.0034
0.0033
0.0032
0.0031
0.003
0.0029

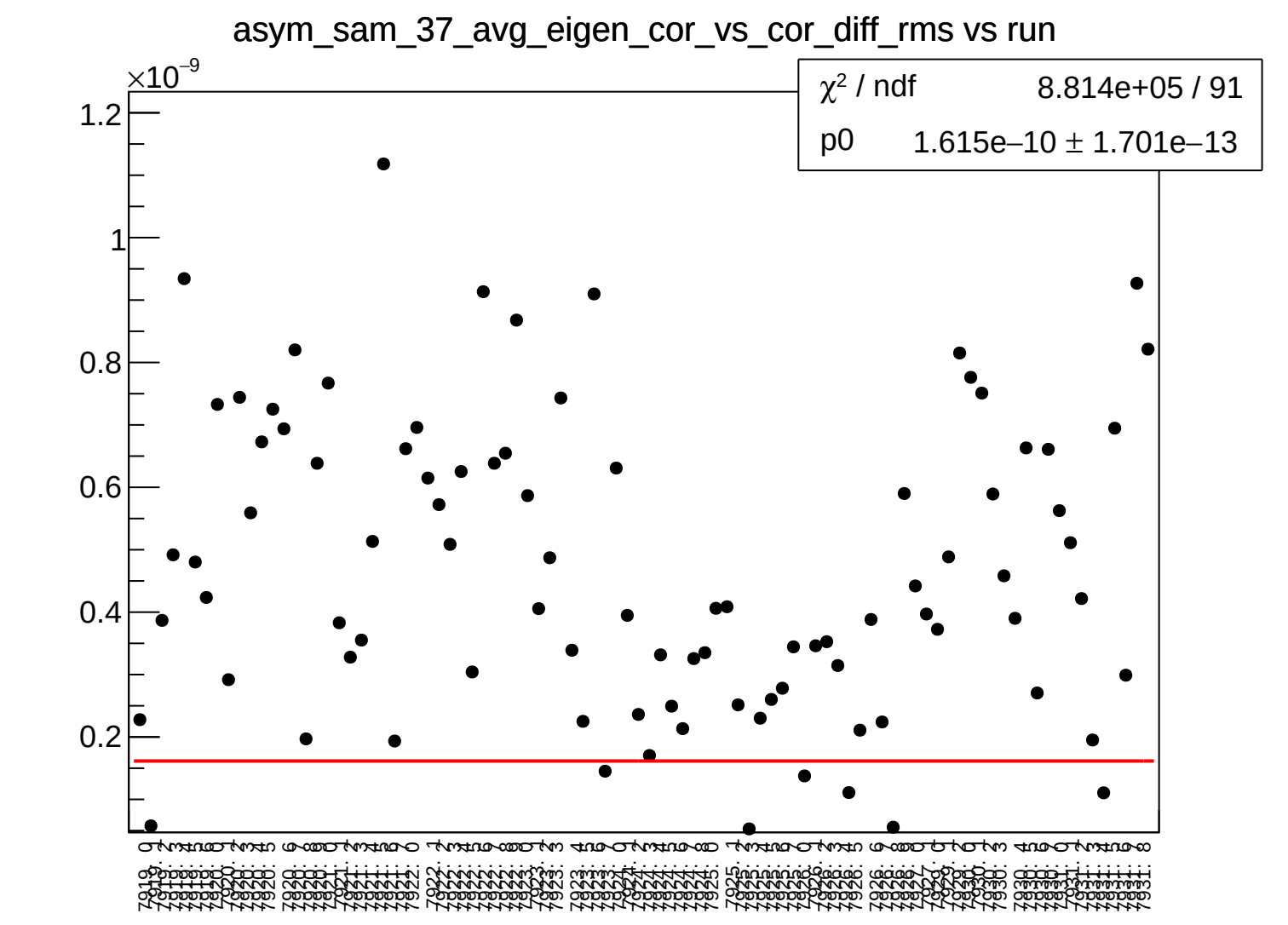

asym_sam_37_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 69.86 / 91
p0 0.05892 ± 0.0648
pull
Entries 92
Mean 31.89
Std Dev 79.12
pull1D
Entries 92
Mean −0.015
Std Dev 0.8713

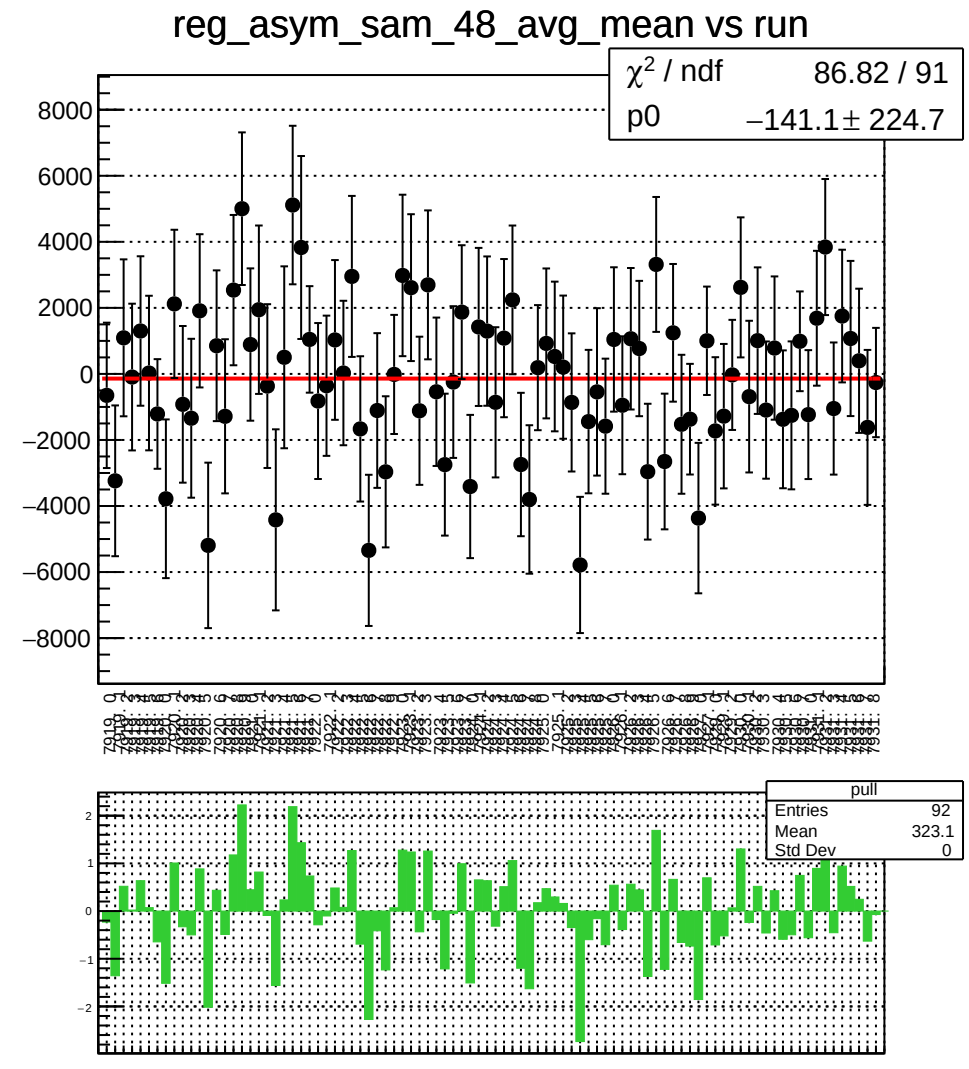

asym_sam_37_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.514e+04 / 91
p0 60.75 ± 0.04582
100
90
80
70
60
50

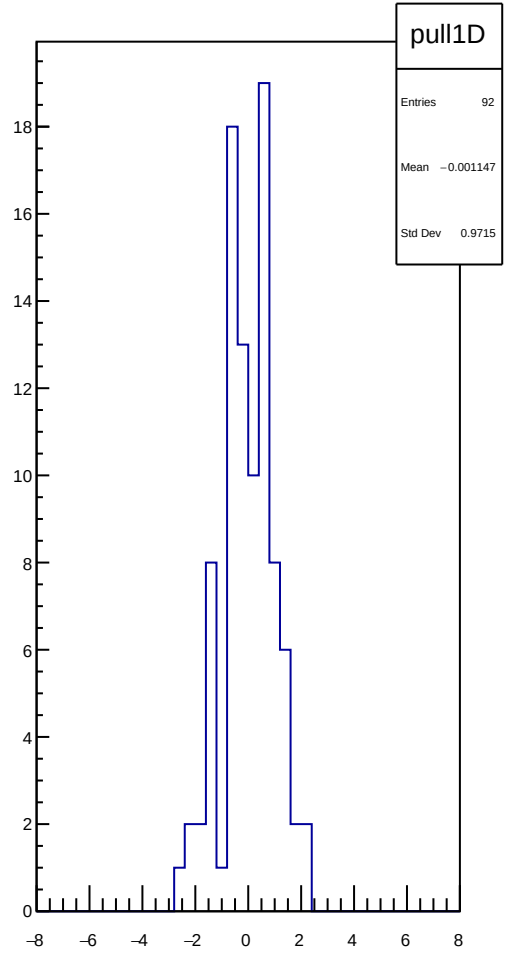

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.86 / 91
p0 0.05892 ± 0.0648
pull
Entries 92
Mean 31.89
Std Dev 79.12
pull1D
Entries 92
Mean −0.015
Std Dev 0.8713

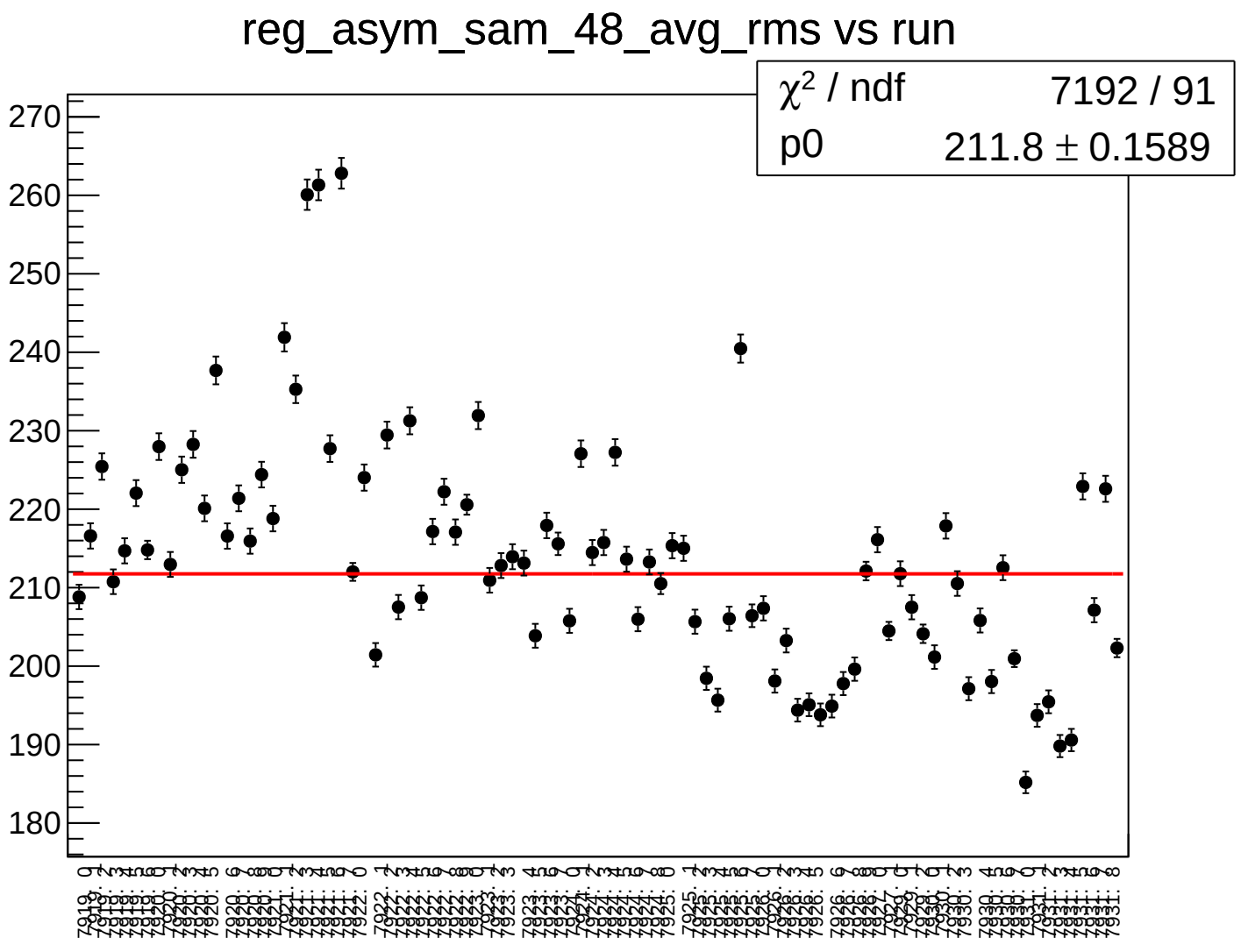

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.514e+04 / 91
p0 60.75 ± 0.04582
100
90
80
70
60
50

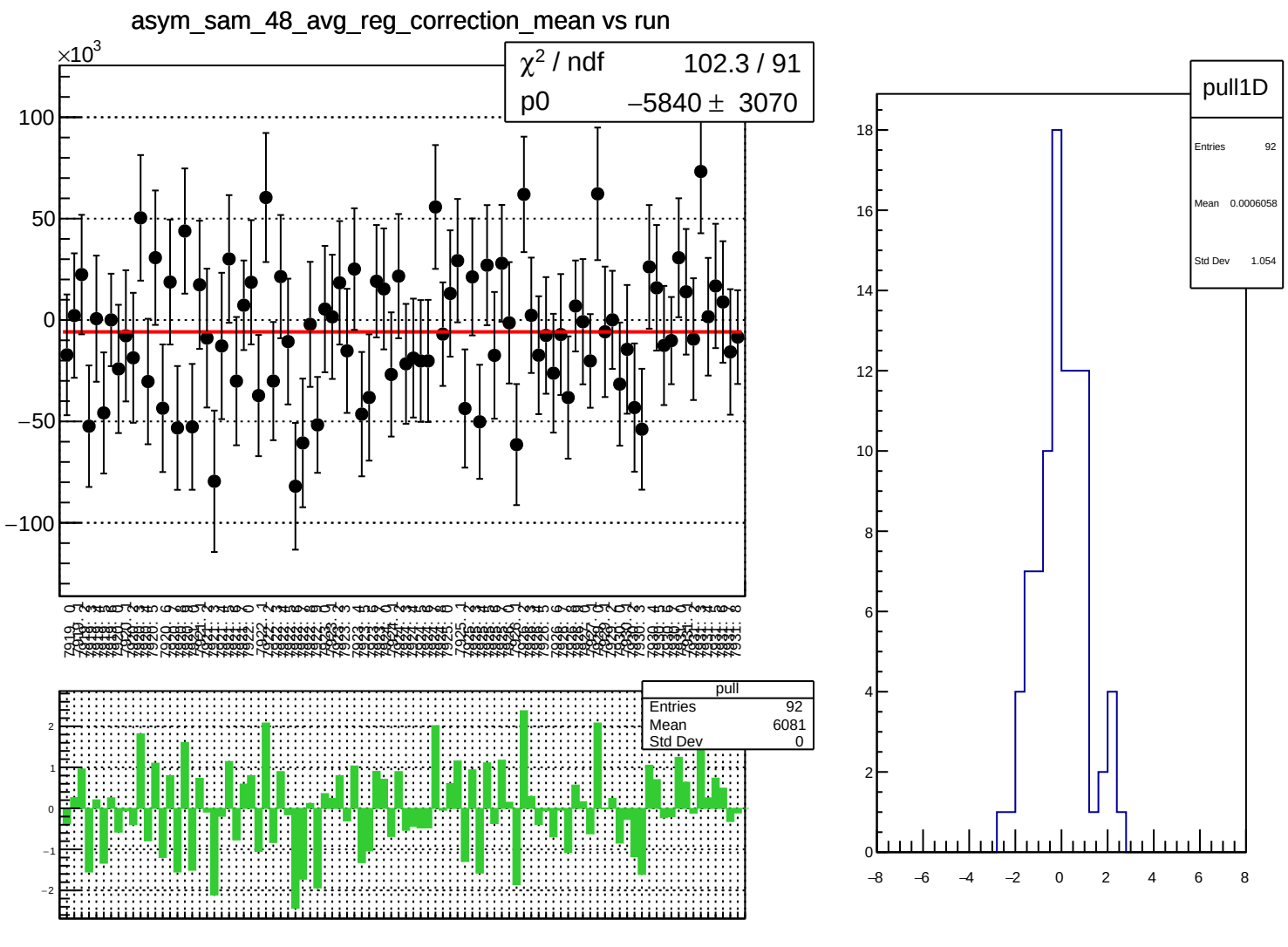

asym_sam_37_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.68 / 91
p0 −1.95e−13 ± 2.406e−13
20
10
0
−10
−20
pull
Entries 92
Mean 60.55
Std Dev 5.162
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean 0.09353
Std Dev 0.9318
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

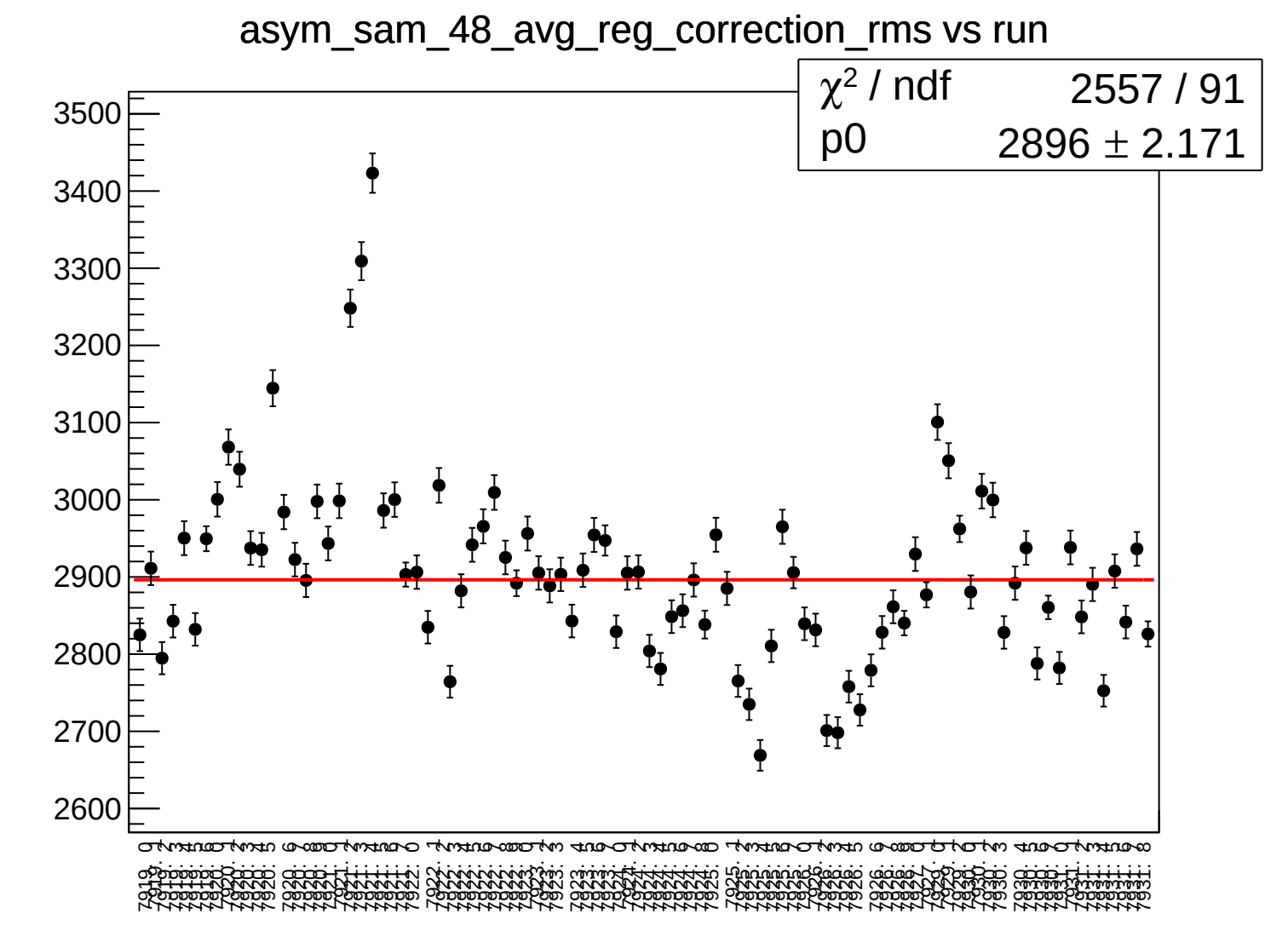

asym_sam_37_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.814e+05 / 91
p0 1.615e−10 ± 1.701e−13
1.2
1
0.8
0.6
0.4
0.2

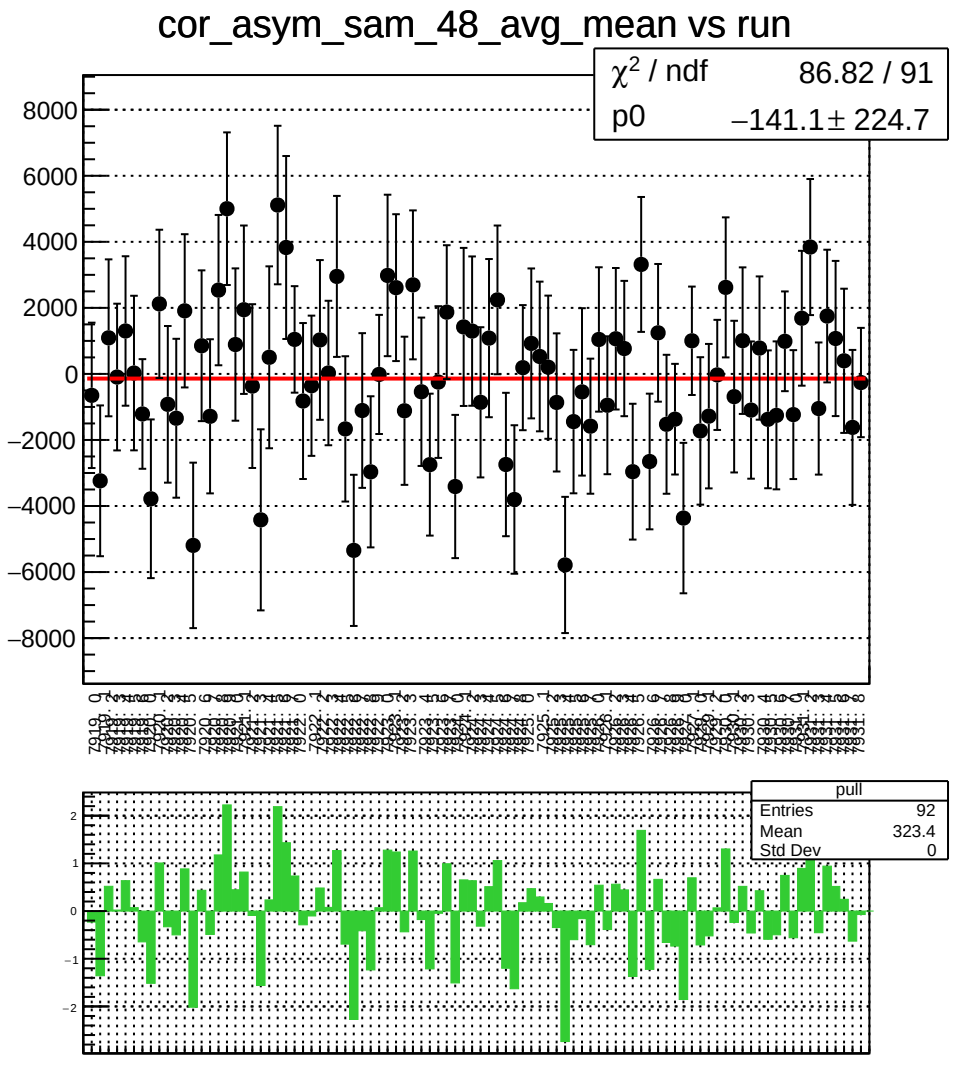

reg_asym_sam_48_avg_mean vs run
χ² / ndf 86.82 / 91
p0 −141.1± 224.7
pull
Entries 92
Mean 323.1
Std Dev 0

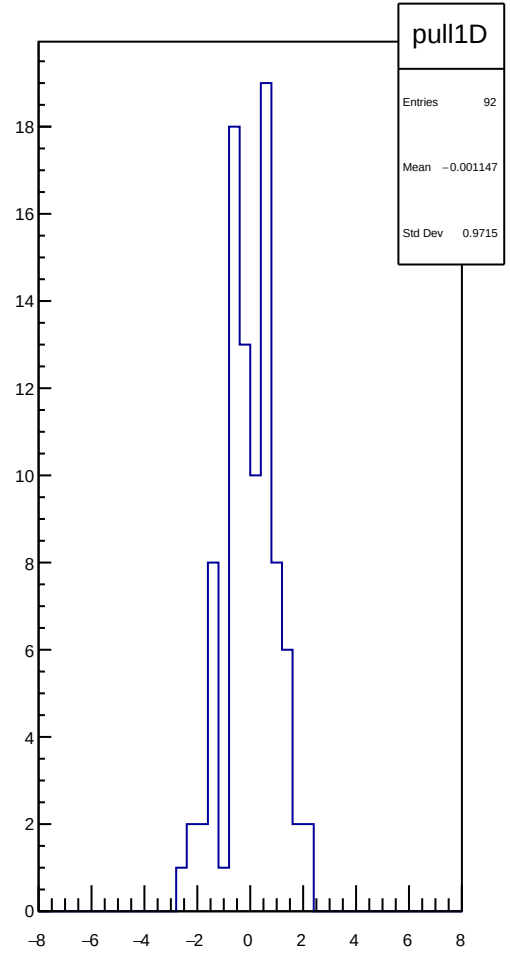

pull1D
Entries 92
Mean −0.001147
Std Dev 0.9715

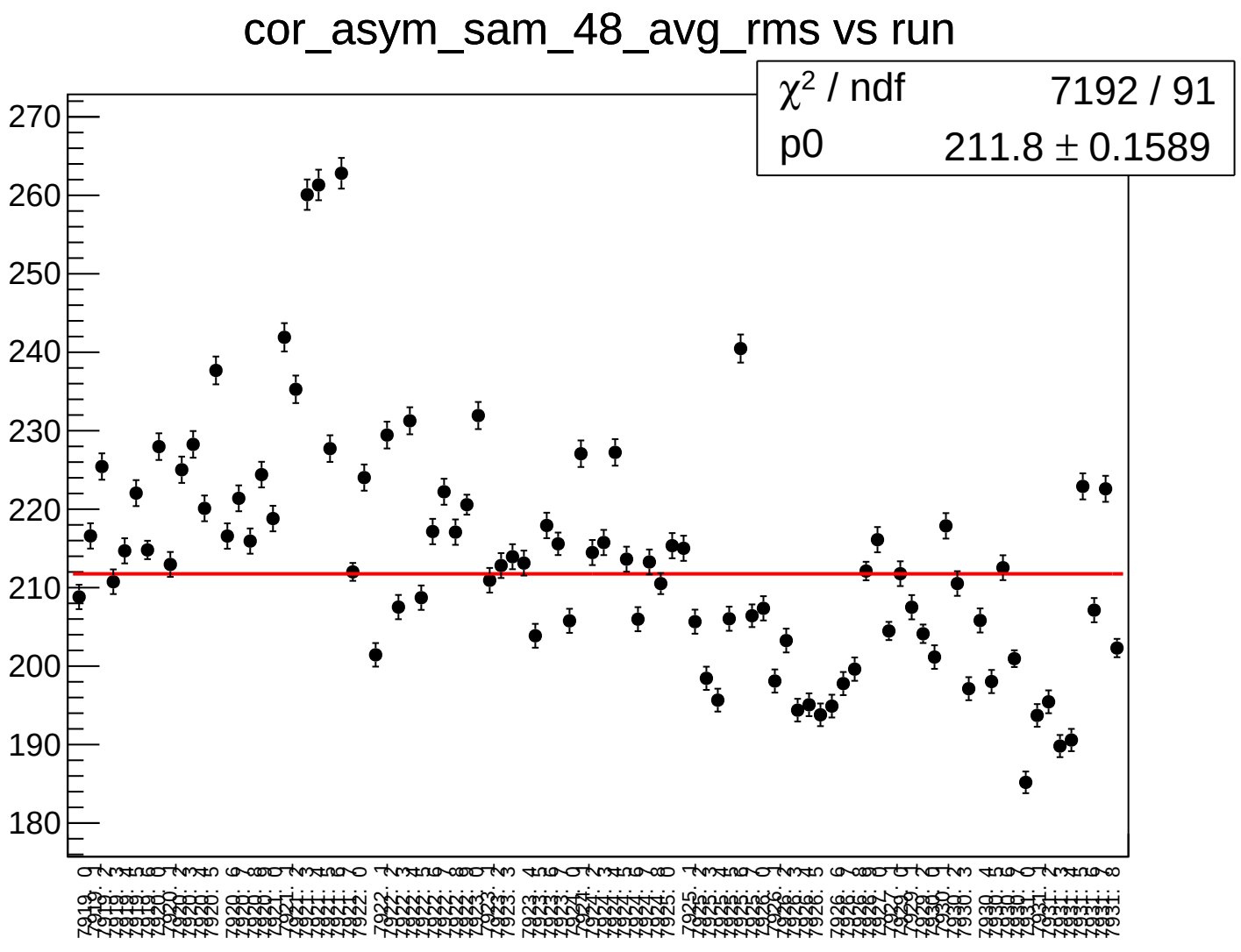

reg_asym_sam_48_avg_rms vs run
χ² / ndf 7192 / 91
p0 211.8 ± 0.1589
270
260
250
240
230
220
210
200
190
180

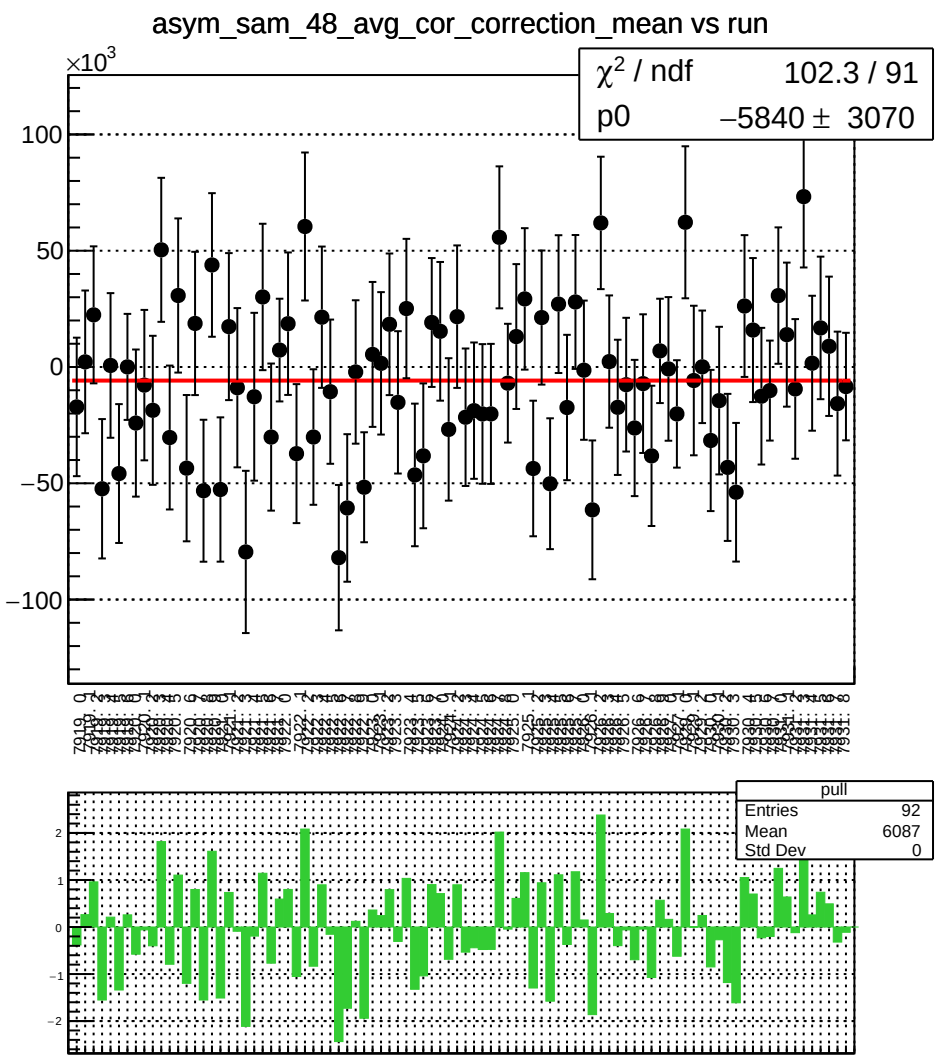

asym_sam_48_avg_reg_correction_mean vs run
×10^3
χ² / ndf 102.3 / 91
p0 −5840 ± 3070
100
50
0
−50
−100
pull
Entries 92
Mean 6081
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.0006058
Std Dev 1.054
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

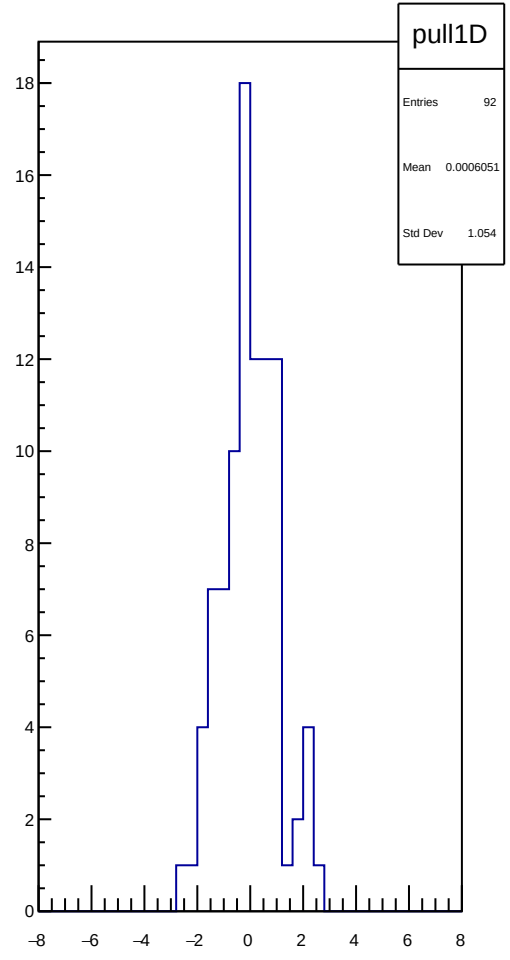

asym_sam_48_avg_reg_correction_rms vs run
χ² / ndf 2557 / 91
p0 2896 ± 2.171
3500
3400
3300
3200
3100
3000
2900
2800
2700
2600

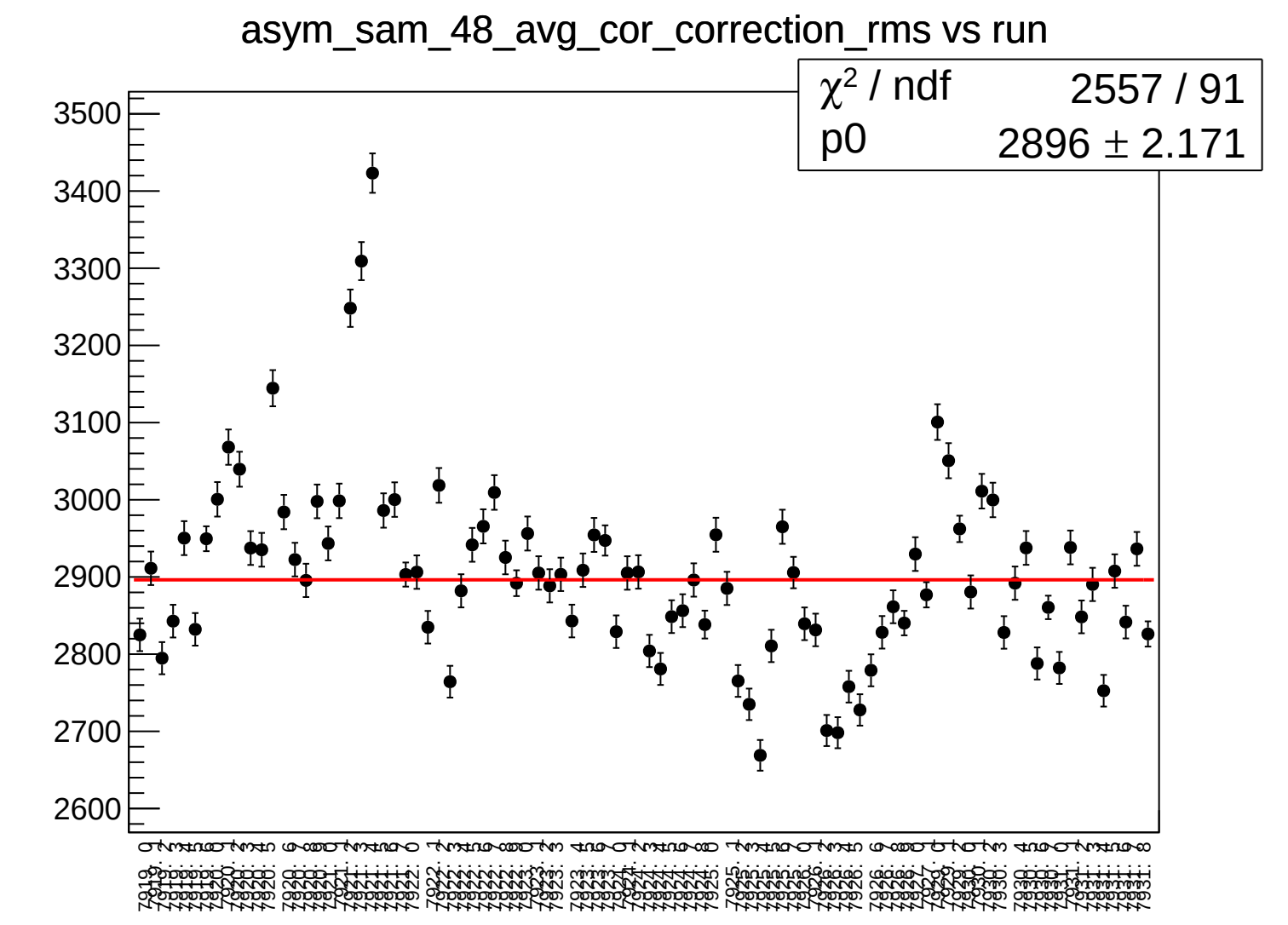

cor_asym_sam_48_avg_mean vs run
χ² / ndf 86.82 / 91
p0 −141.1± 224.7
pull
Entries 92
Mean 323.4
Std Dev 0

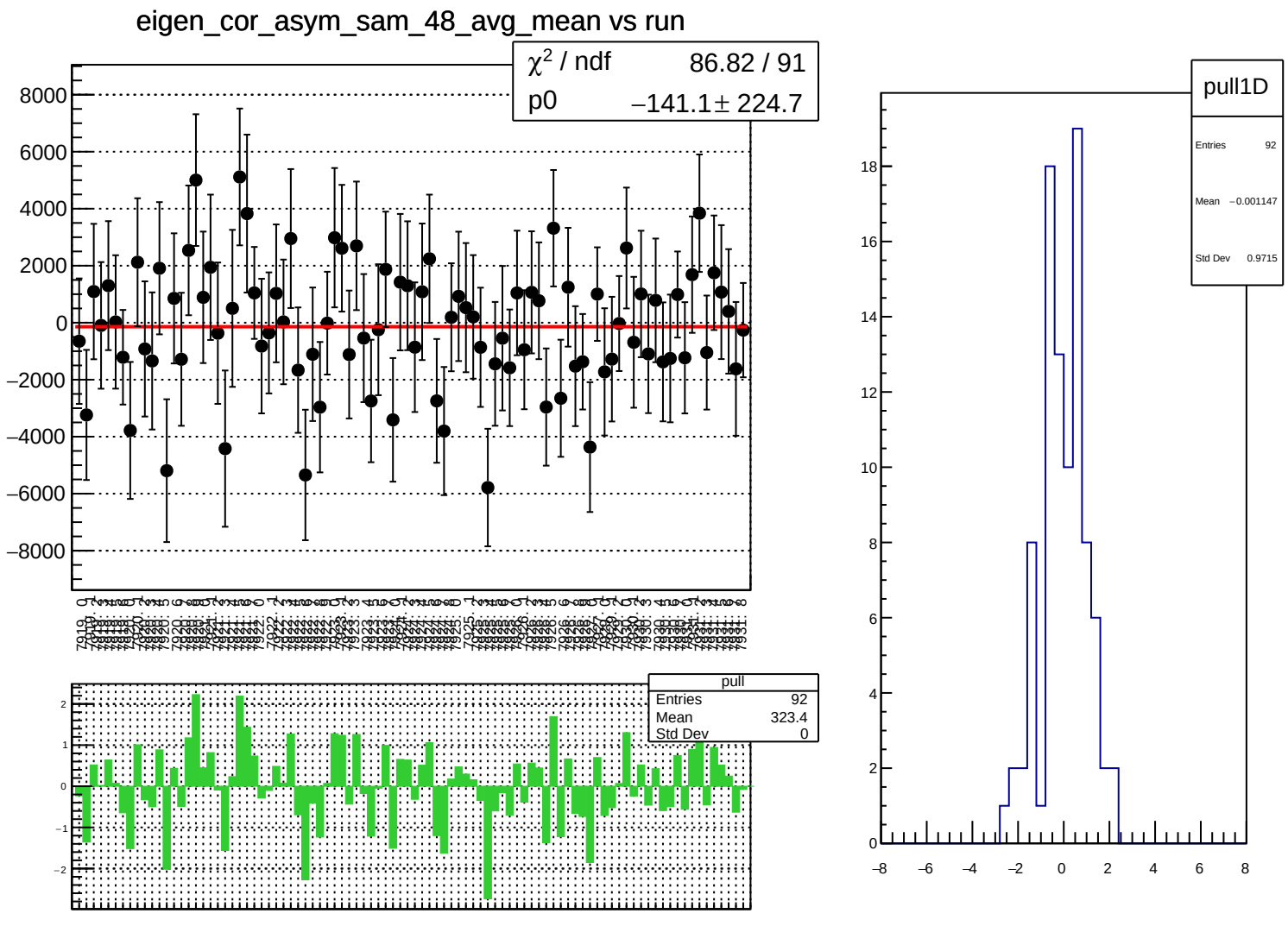

pull1D
Entries 92
Mean −0.001147
Std Dev 0.9715

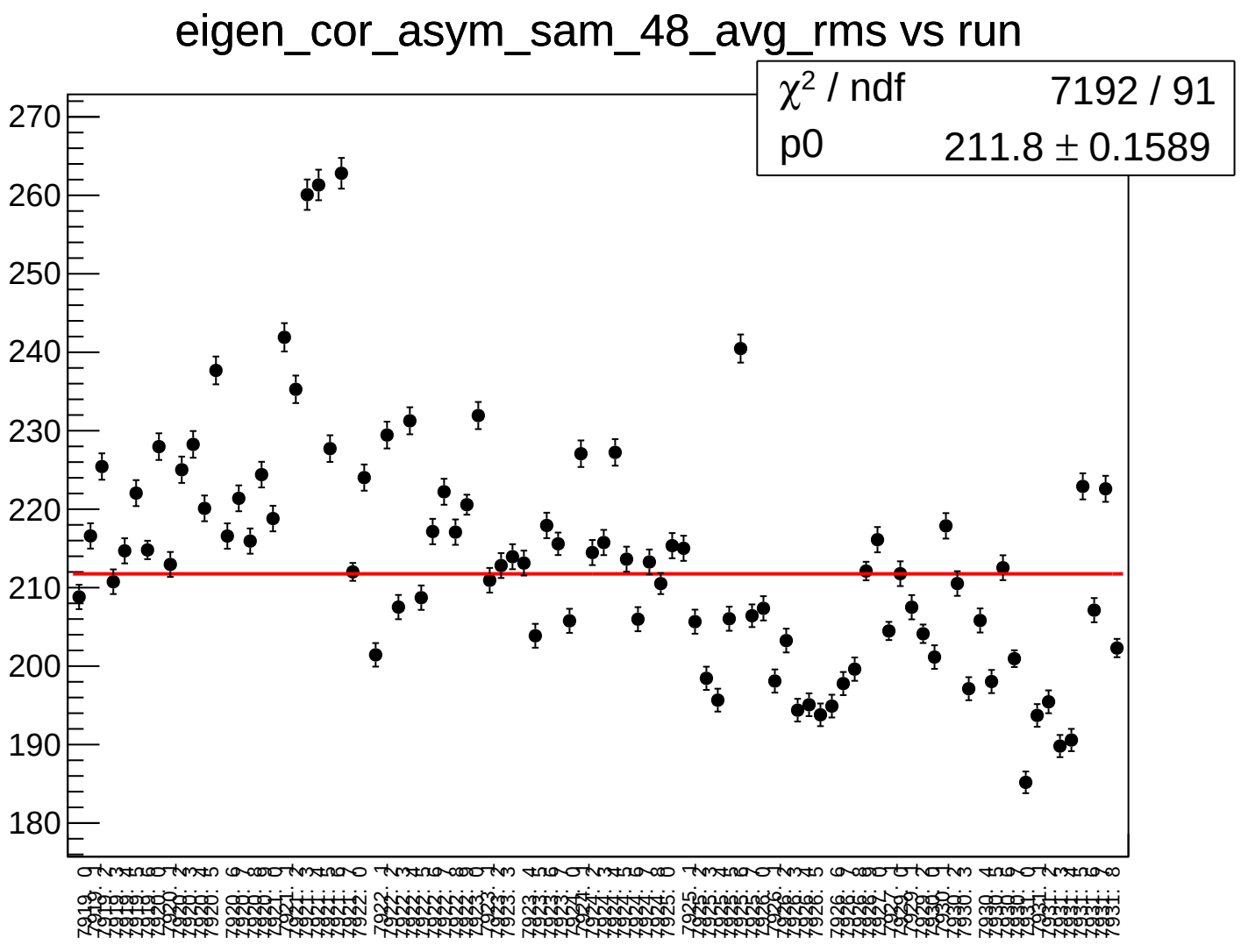

cor_asym_sam_48_avg_rms vs run
χ^2 / ndf 7192 / 91
p0 211.8 ± 0.1589
270
260
250
240
230
220
210
200
190
180

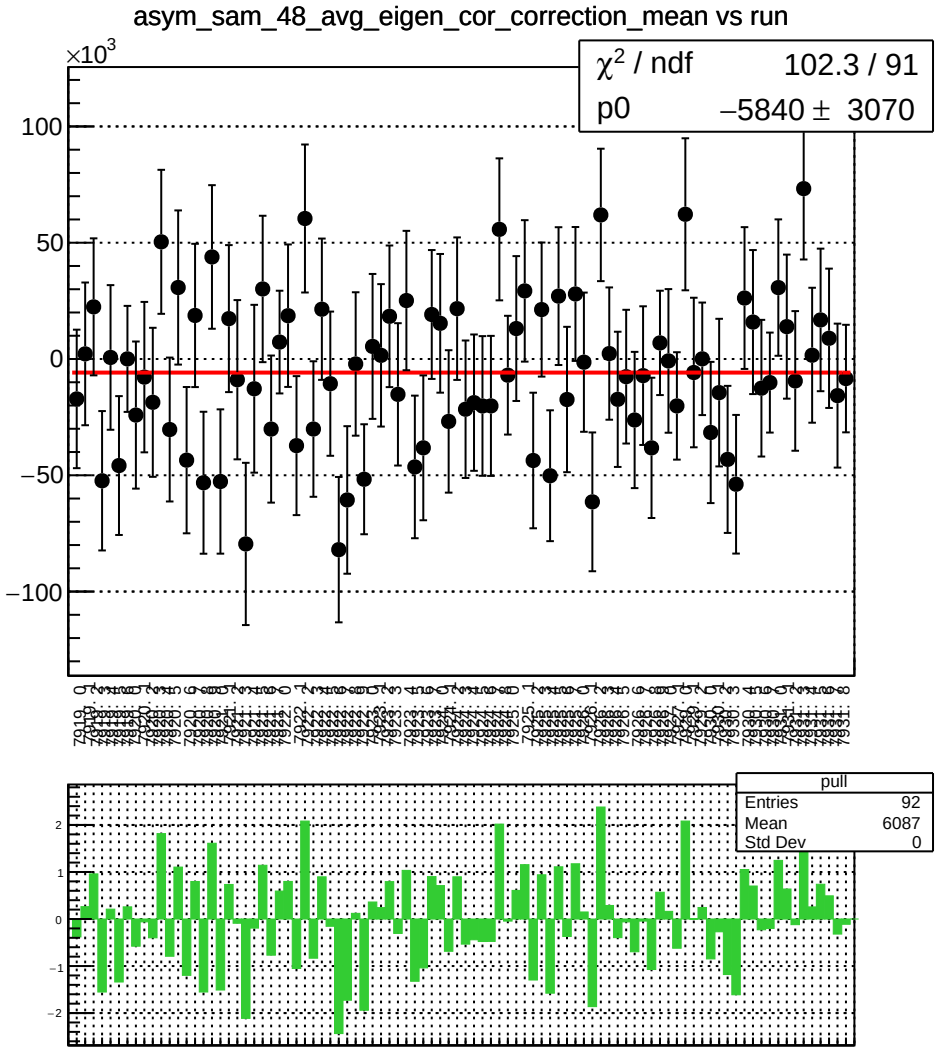

asym_sam_48_avg_cor_correction_mean vs run
×10^3
χ² / ndf 102.3 / 91
p0 −5840 ± 3070
100
50
0
−50
−100
pull
Entries 92
Mean 6087
Std Dev 0
2
1
0
−1
−2

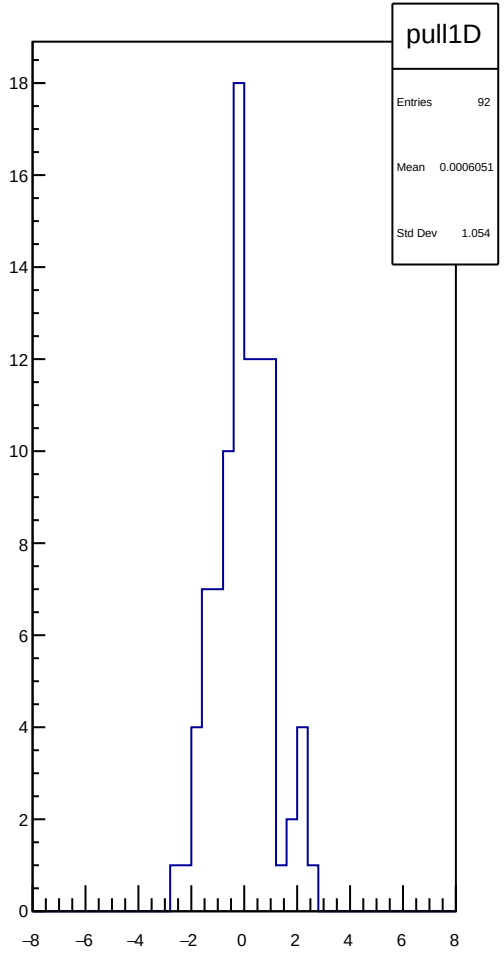

pull1D
Entries 92
Mean 0.0006051
Std Dev 1.054
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

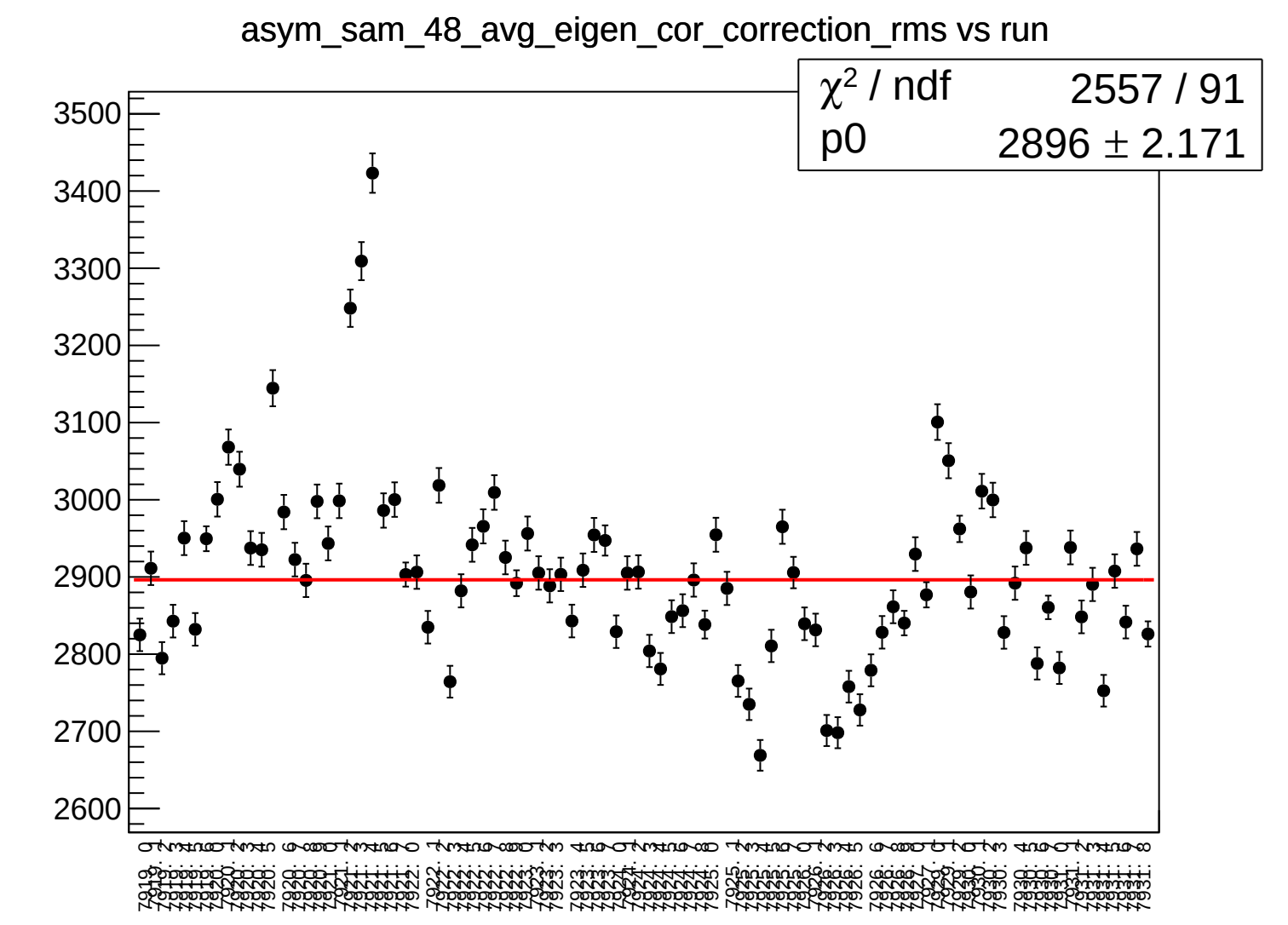

asym_sam_48_avg_cor_correction_rms vs run
χ² / ndf 2557 / 91
p0 2896 ± 2.171
3500
3400
3300
3200
3100
3000
2900
2800
2700
2600

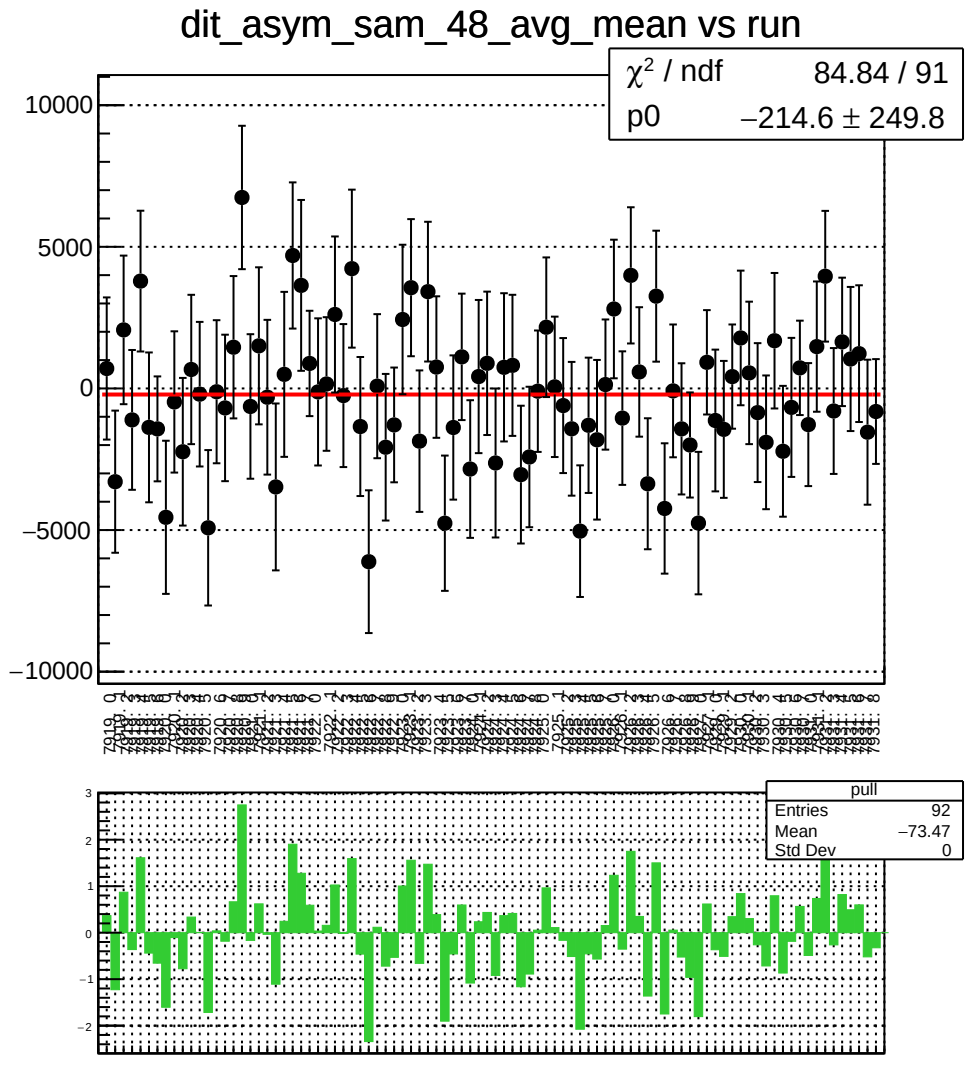

eigen_cor_asym_sam_48_avg_mean vs run
χ² / ndf 86.82 / 91
p0 −141.1± 224.7
pull
Entries 92
Mean 323.4
Std Dev 0
pull1D
Entries 92
Mean −0.001147
Std Dev 0.9715

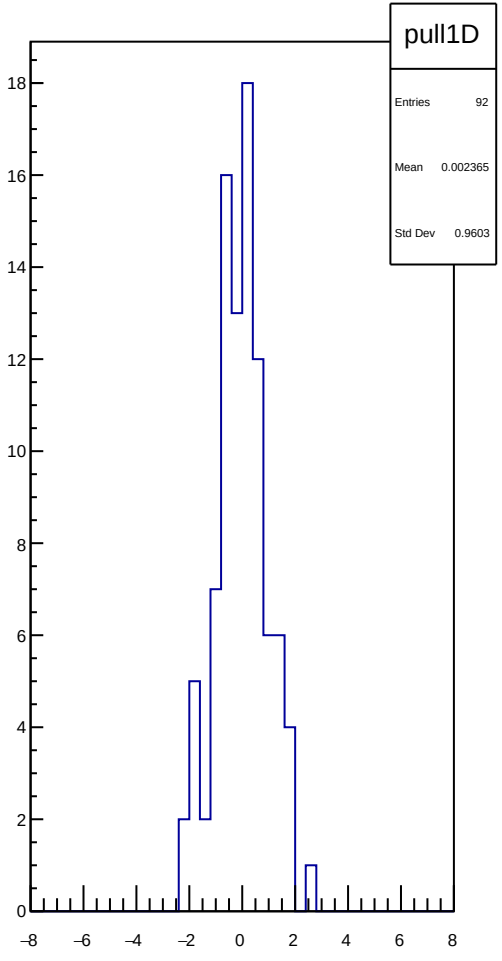

eigen_cor_asym_sam_48_avg_rms vs run
χ² / ndf 7192 / 91
p0 211.8 ± 0.1589
270
260
250
240
230
220
210
200
190
180

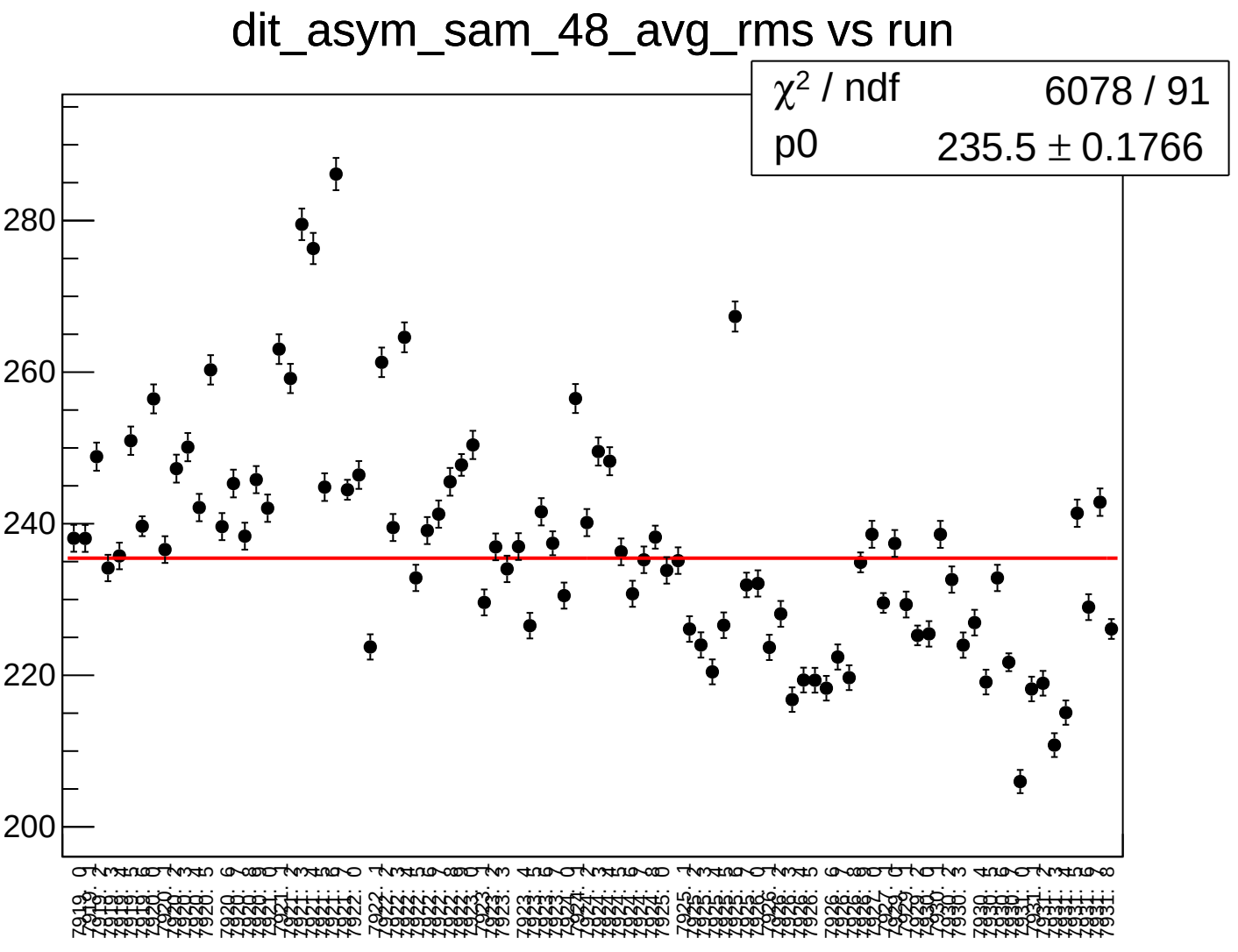

asym_sam_48_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 102.3 / 91
p0 −5840 ± 3070
100
50
0
−50
−100
pull
Entries 92
Mean 6087
Std Dev 0
2
1
0
−1
−2

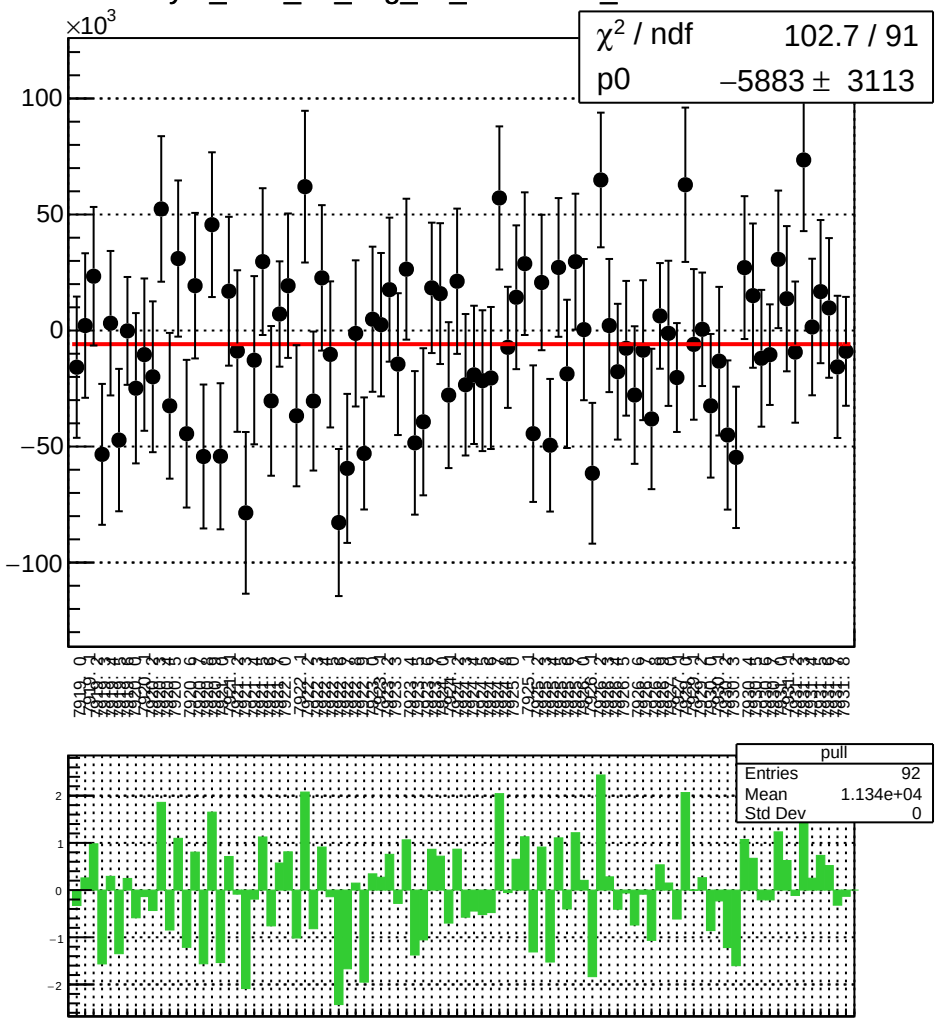

pull1D
Entries 92
Mean 0.0006051
Std Dev 1.054
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

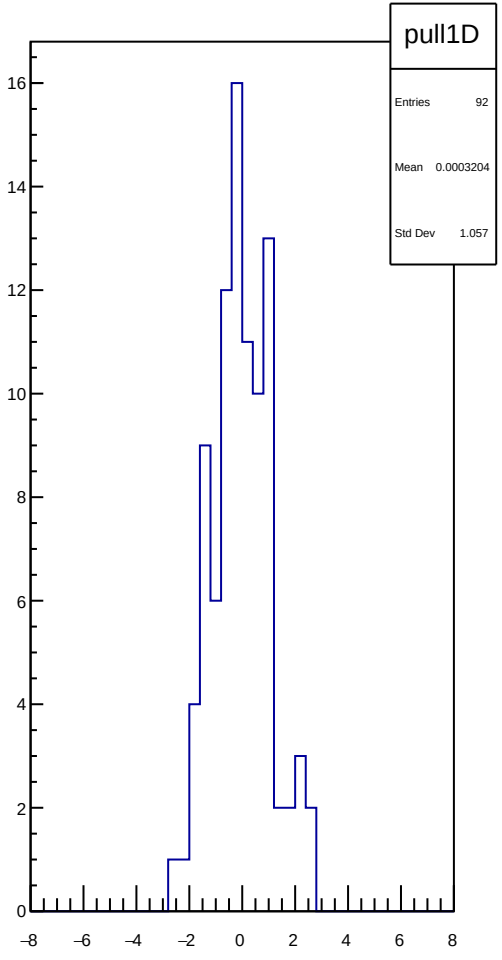

asym_sam_48_avg_eigen_cor_correction_rms vs run
χ² / ndf 2557 / 91
p0 2896 ± 2.171
3500
3400
3300
3200
3100
3000
2900
2800
2700
2600

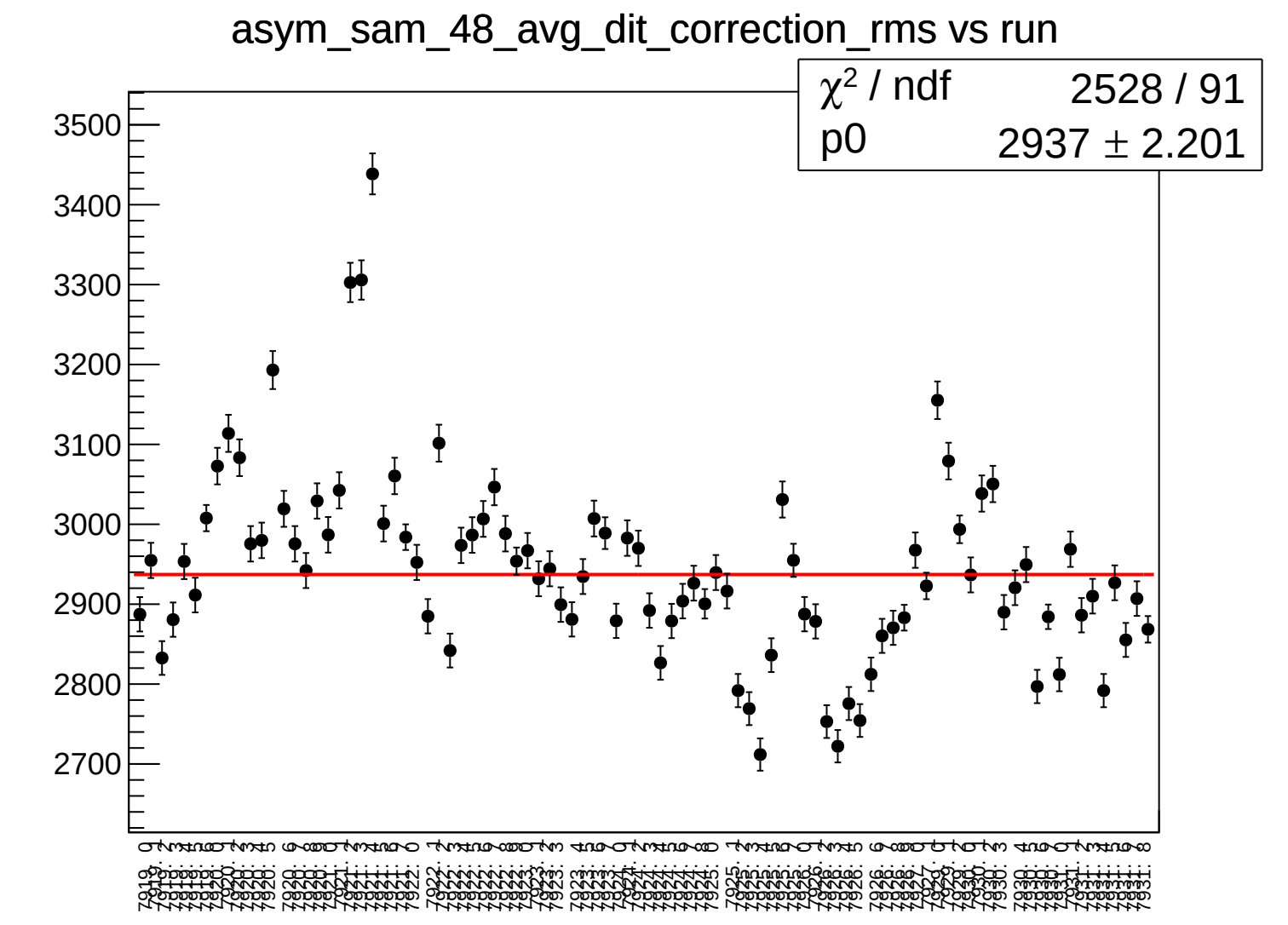

dit_asym_sam_48_avg_mean vs run
χ² / ndf 84.84 / 91
p0 −214.6 ± 249.8
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −73.47
Std Dev 0
3
2
1
0
−1
−2

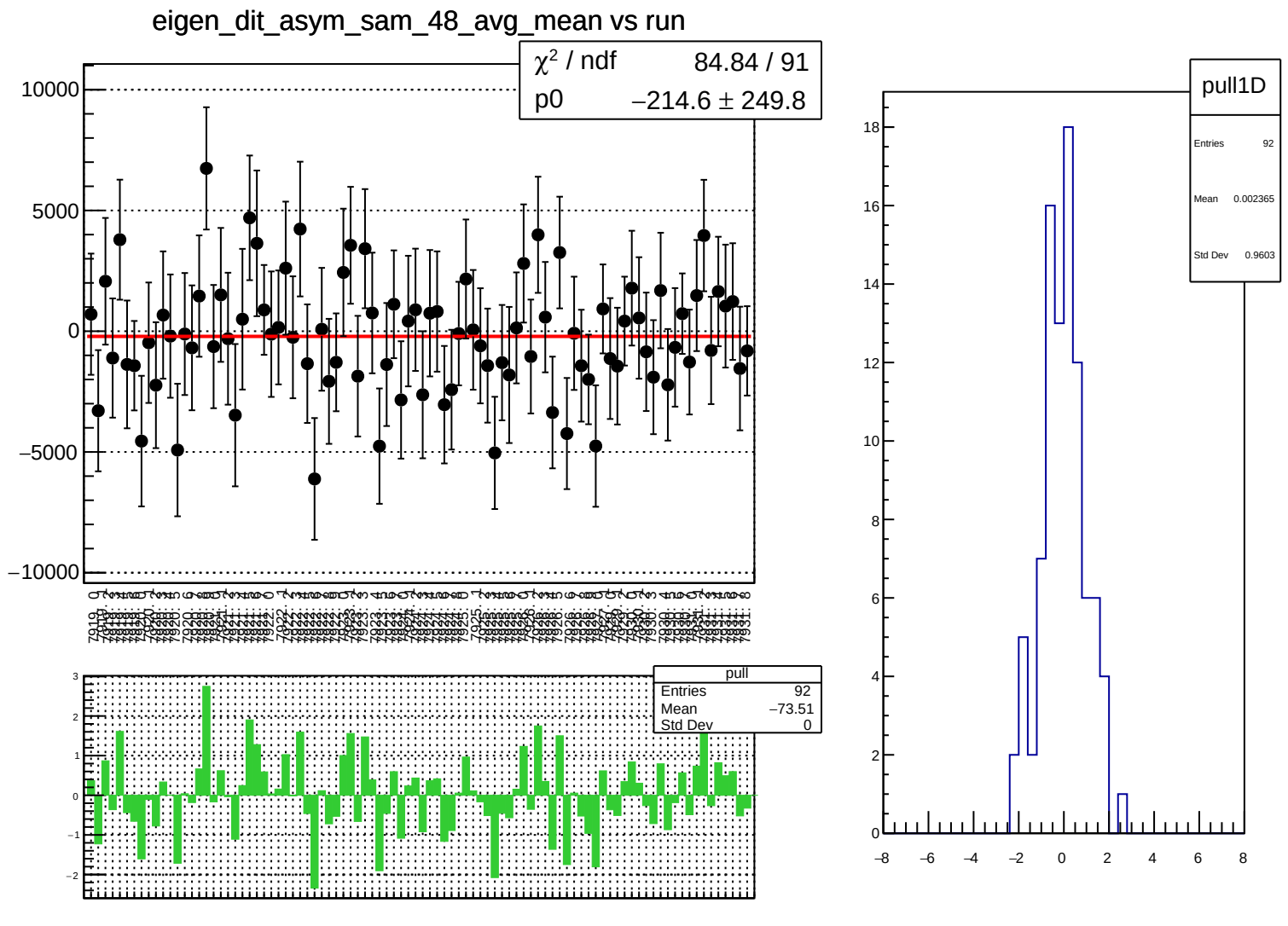

pull1D
Entries 92
Mean 0.002365
Std Dev 0.9603
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

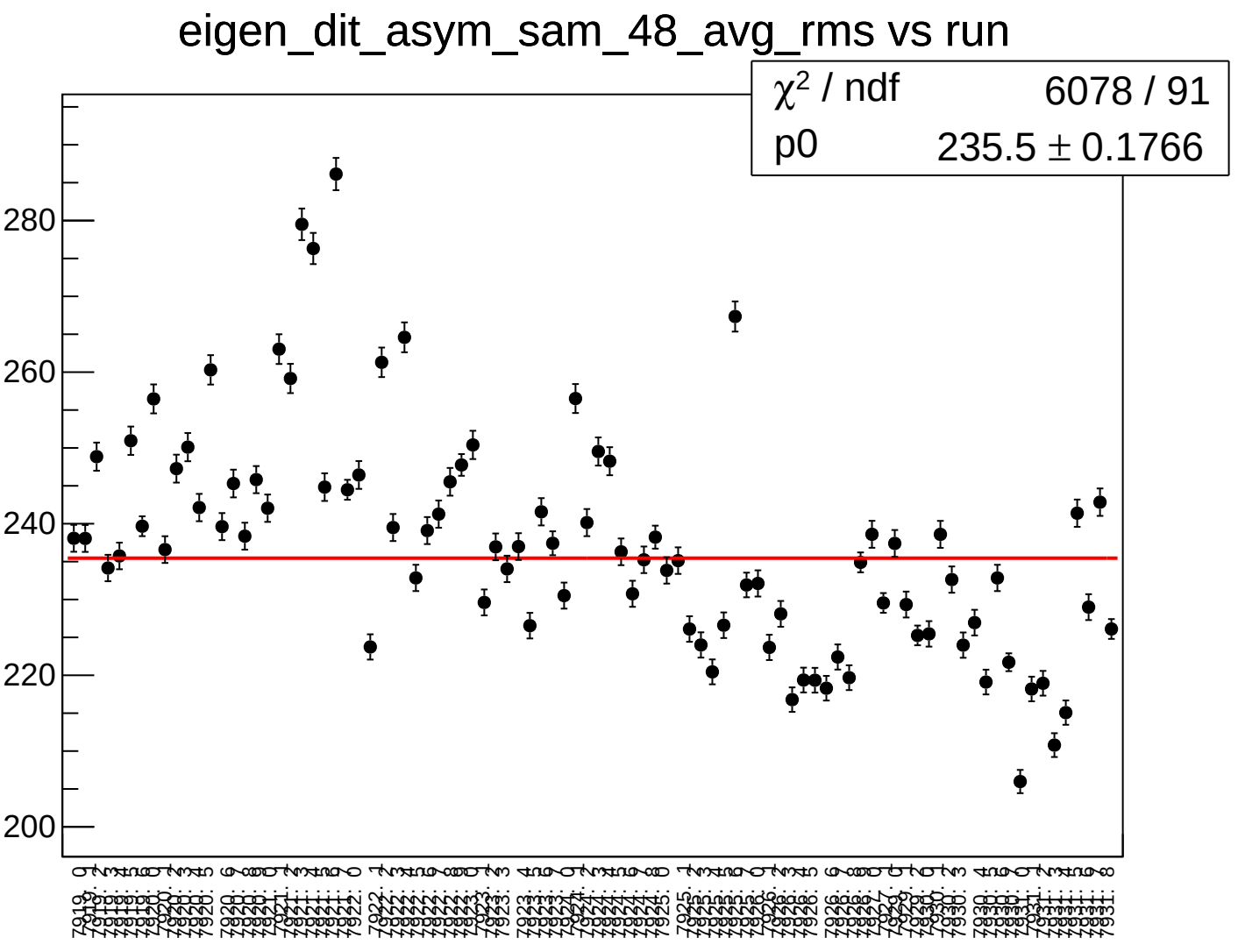

dit_asym_sam_48_avg_rms vs run
χ^2 / ndf 6078 / 91
p0 235.5 ± 0.1766
280
260
240
220
200

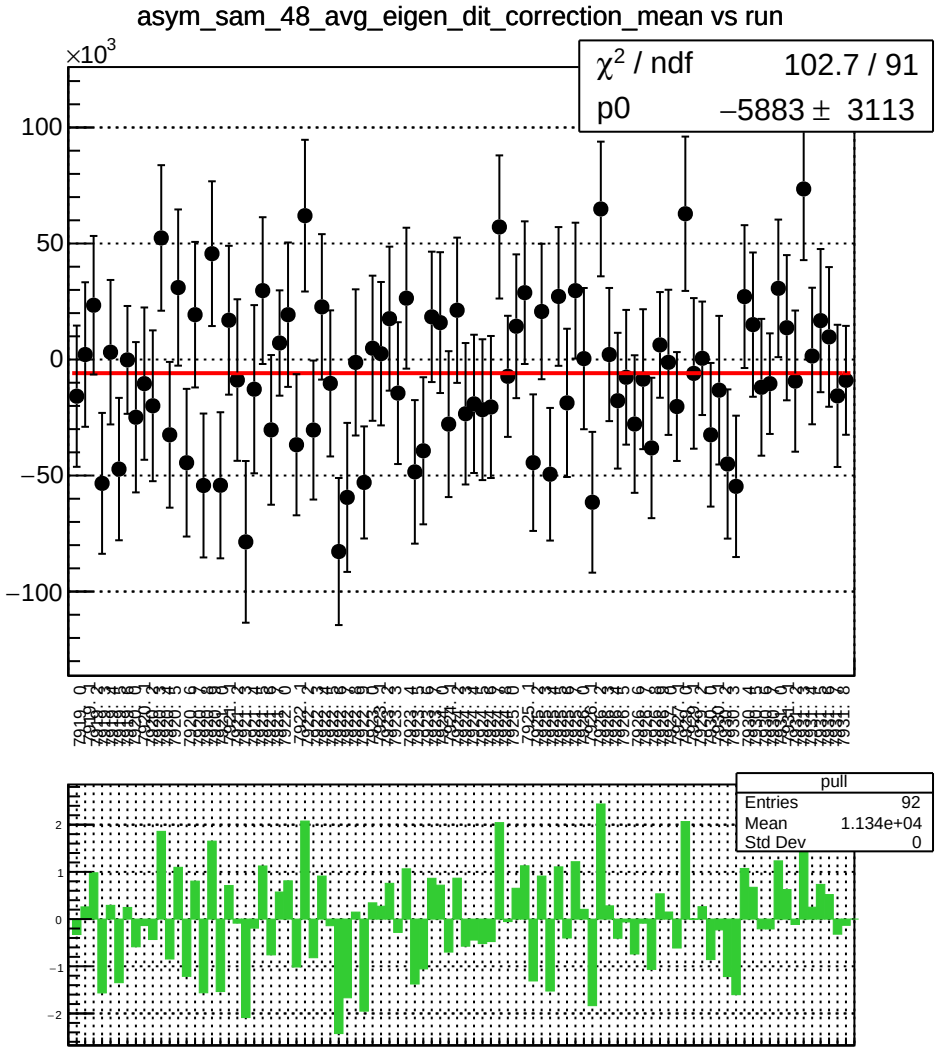

asym_sam_48_avg_dit_correction_mean vs run
×10^3
χ² / ndf 102.7 / 91
p0 −5883 ± 3113
100
50
0
−50
−100
pull
Entries 92
Mean 1.134e+04
Std Dev 0
2
1
0
−1
−2

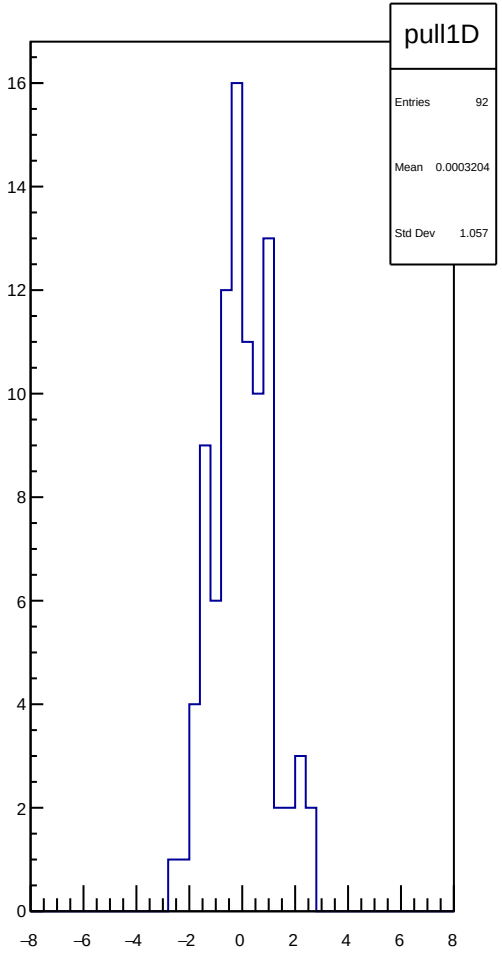

pull1D
Entries 92
Mean 0.0003204
Std Dev 1.057
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

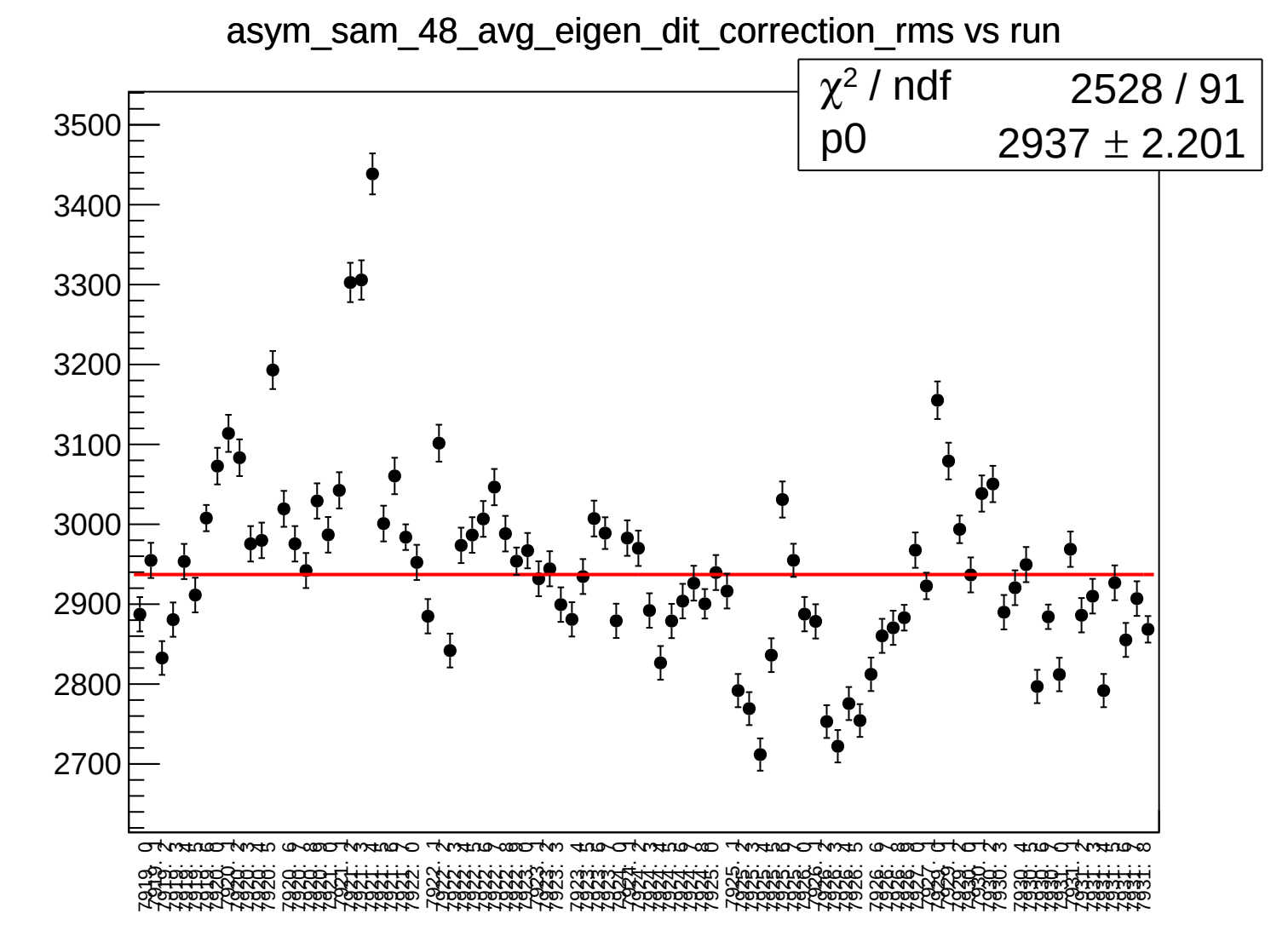

asym_sam_48_avg_dit_correction_rms vs run
χ² / ndf 2528 / 91
p0 2937 ± 2.201
3500
3400
3300
3200
3100
3000
2900
2800
2700

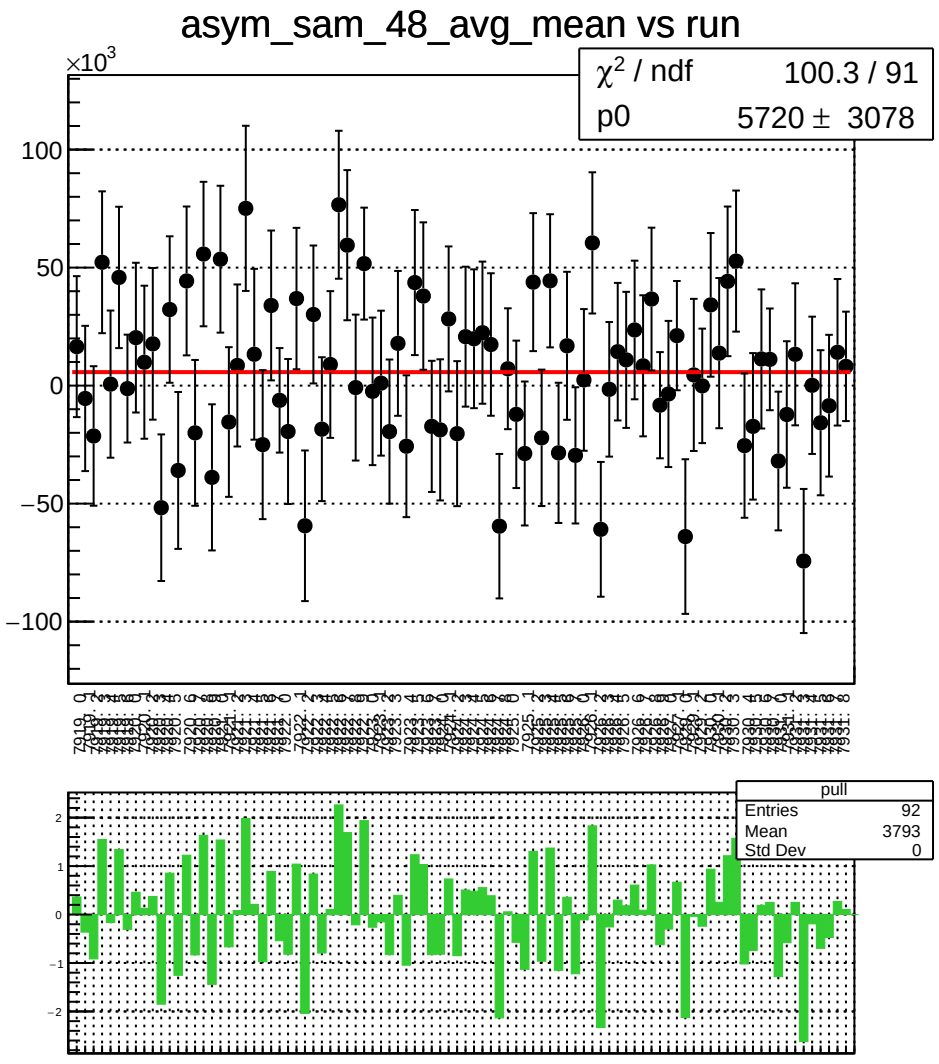

eigen_dit_asym_sam_48_avg_mean vs run
χ² / ndf 84.84 / 91
p0 −214.6 ± 249.8
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −73.51
Std Dev 0
pull1D
Entries 92
Mean 0.002365
Std Dev 0.9603

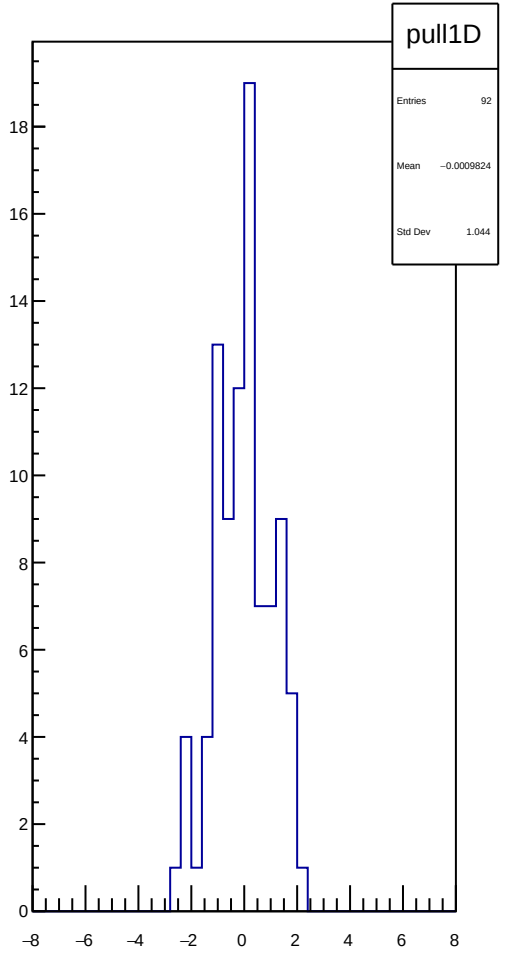

eigen_dit_asym_sam_48_avg_rms vs run
χ^2 / ndf 6078 / 91
p0 235.5 ± 0.1766
280
260
240
220
200

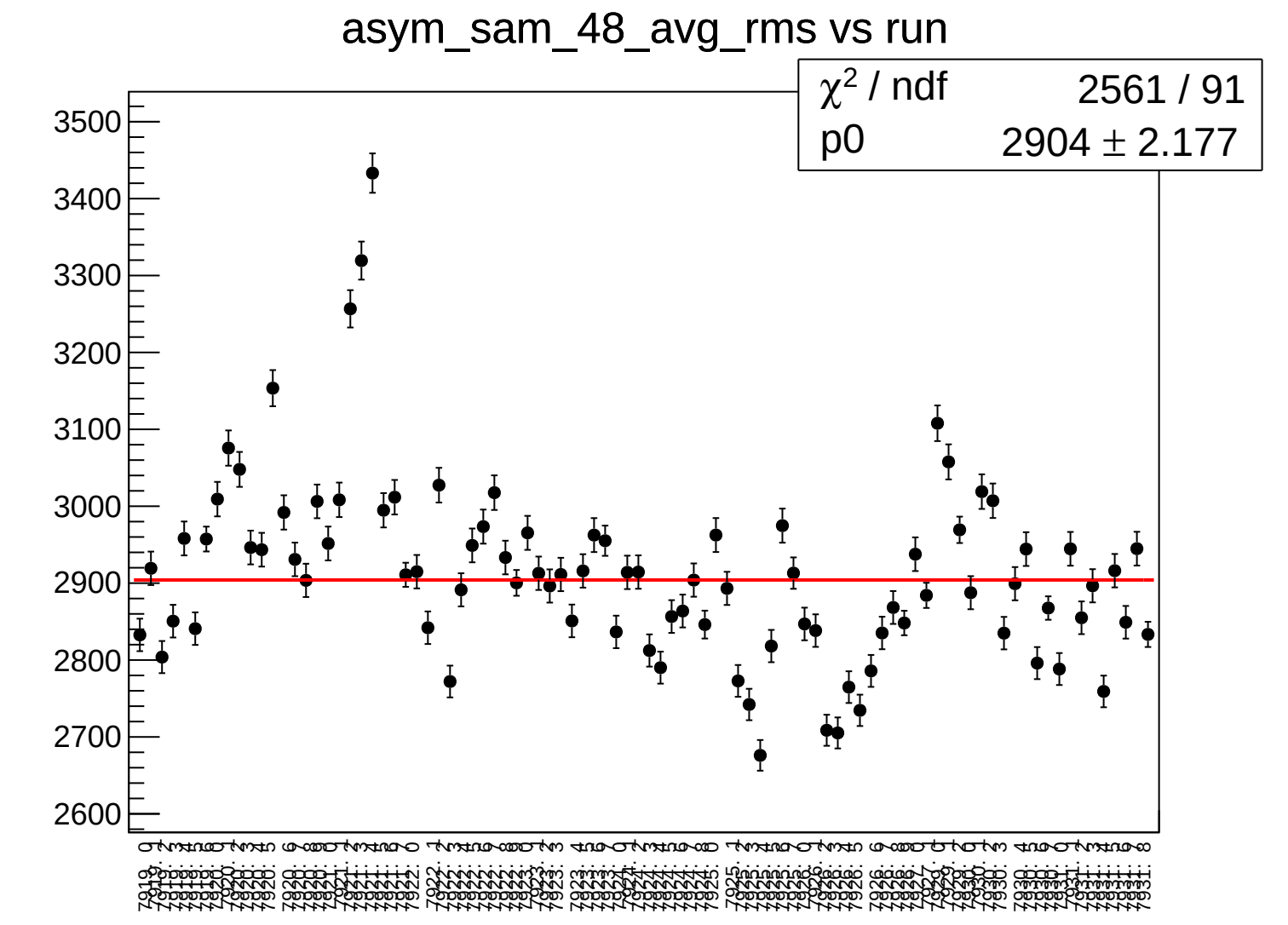

asym_sam_48_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 102.7 / 91
p0 −5883 ± 3113
100
50
0
−50
−100
pull
Entries 92
Mean 1.134e+04
Std Dev 0
2
1
0
−1
−2

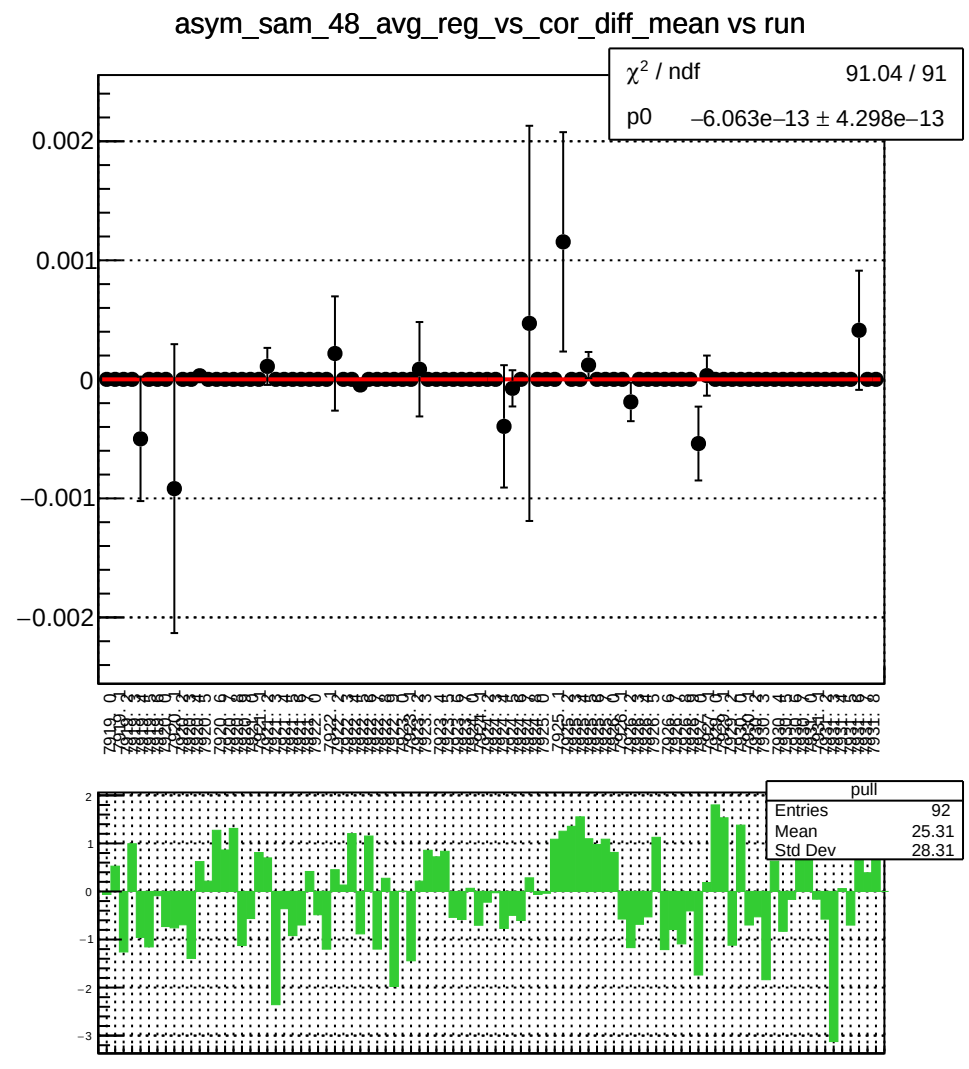

pull1D
Entries 92
Mean 0.0003204
Std Dev 1.057
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

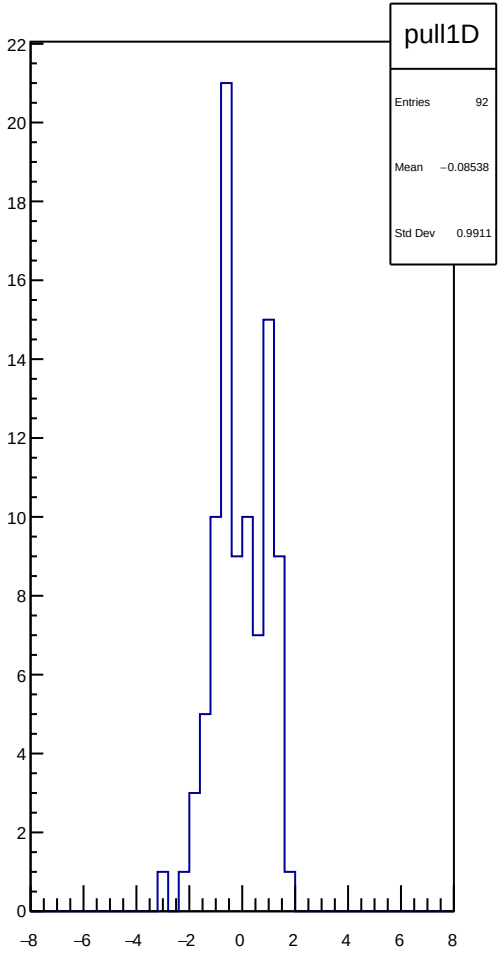

asym_sam_48_avg_eigen_dit_correction_rms vs run
χ² / ndf 2528 / 91
p0 2937 ± 2.201
3500
3400
3300
3200
3100
3000
2900
2800
2700

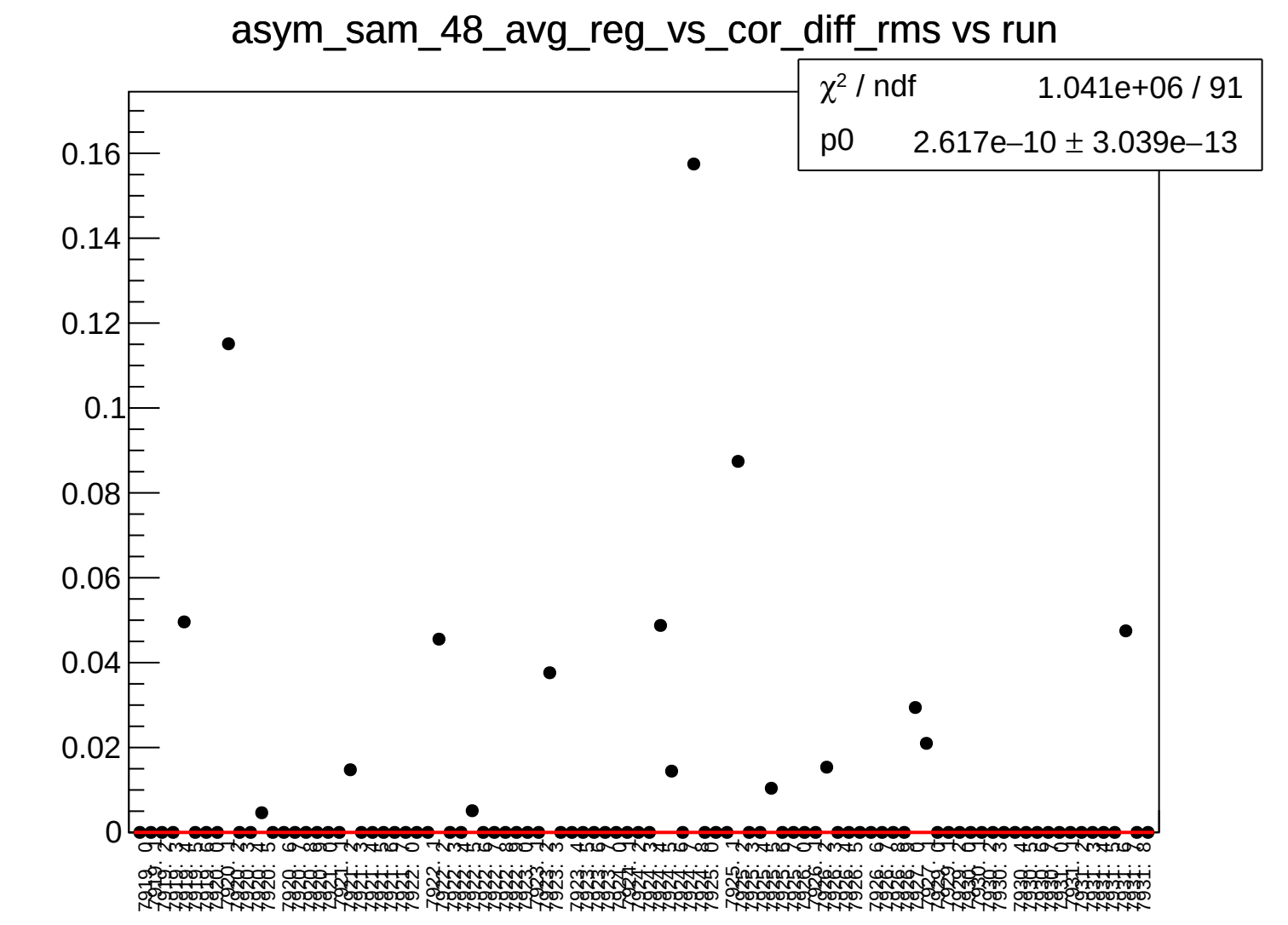

asym_sam_48_avg_mean vs run
×10^3
χ^2 / ndf 100.3 / 91
p0 5720 ± 3078
100
50
0
−50
−100
pull
Entries 92
Mean 3793
Std Dev 0
2
1
0
−1
−2

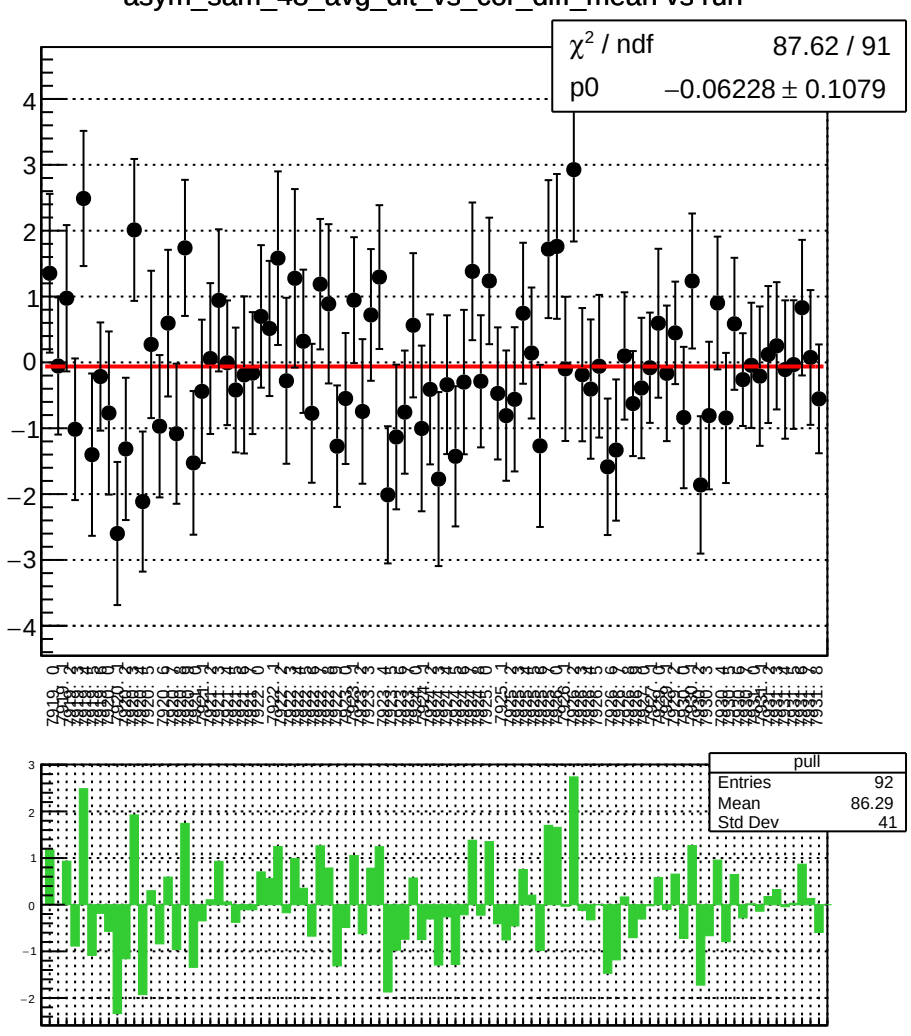

pull1D
Entries 92
Mean −0.0009824
Std Dev 1.044
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

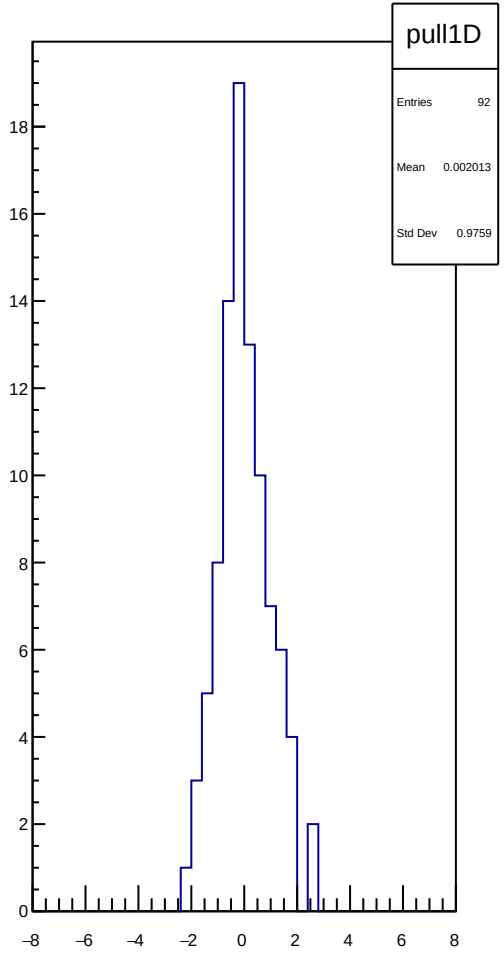

asym_sam_48_avg_rms vs run
χ² / ndf 2561 / 91
p0 2904 ± 2.177
3500
3400
3300
3200
3100
3000
2900
2800
2700
2600

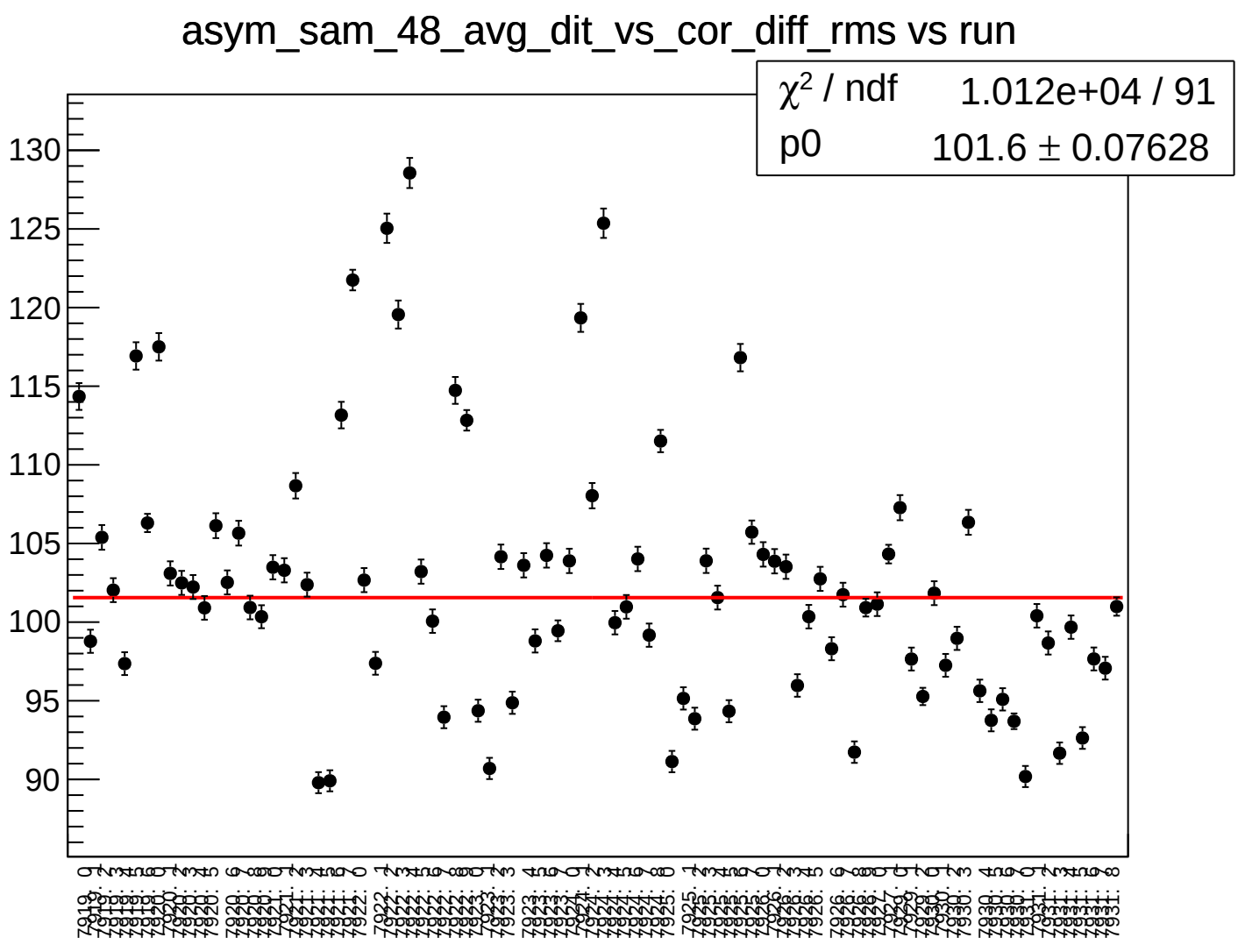

asym_sam_48_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 91.04 / 91
p0 −6.063e−13 ± 4.298e−13
0.002
0.001
0
−0.001
−0.002
pull
Entries 92
Mean 25.31
Std Dev 28.31
2
1
0
−1
−2
−3

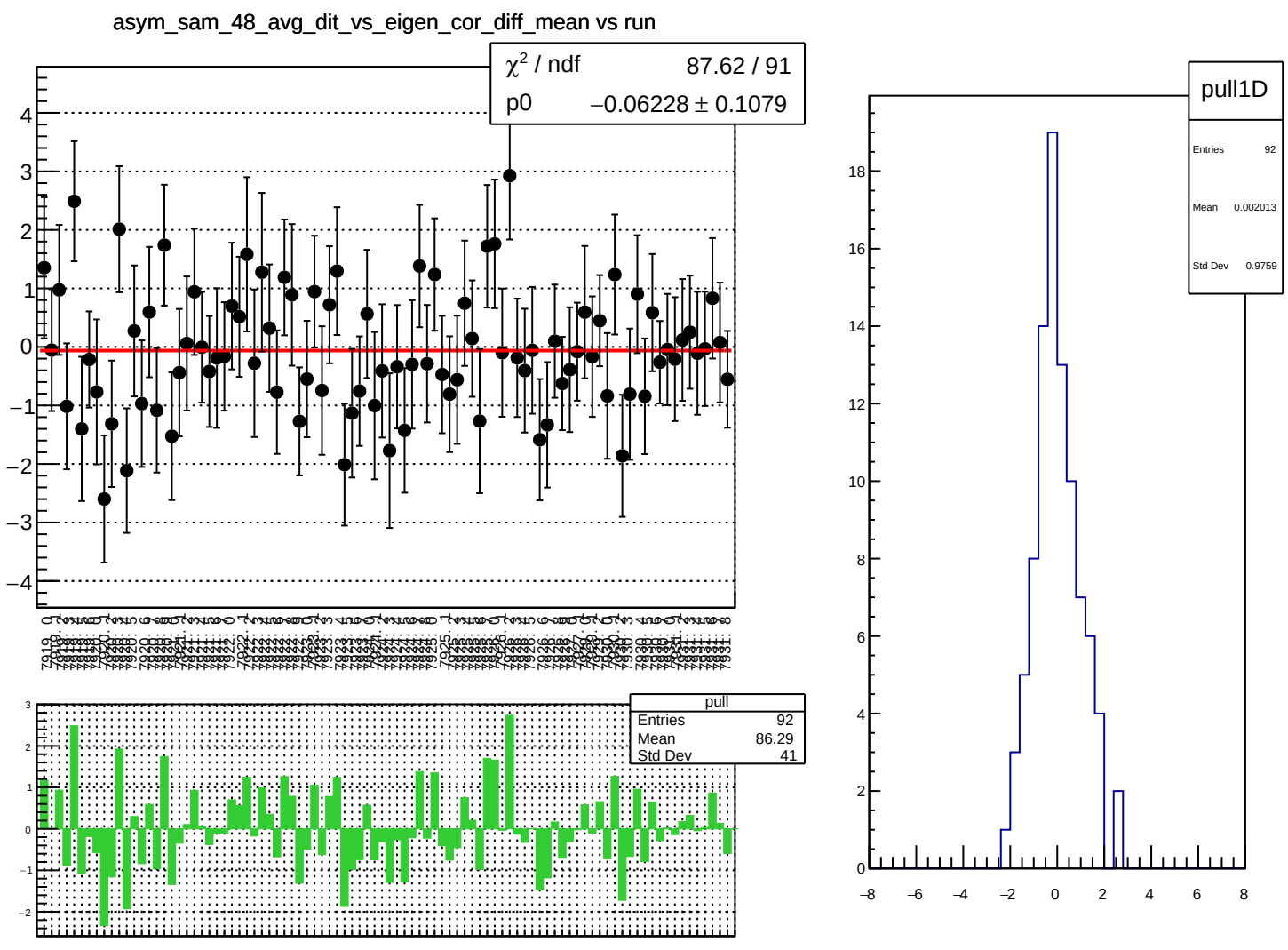

pull1D
Entries 92
Mean −0.08538
Std Dev 0.9911
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

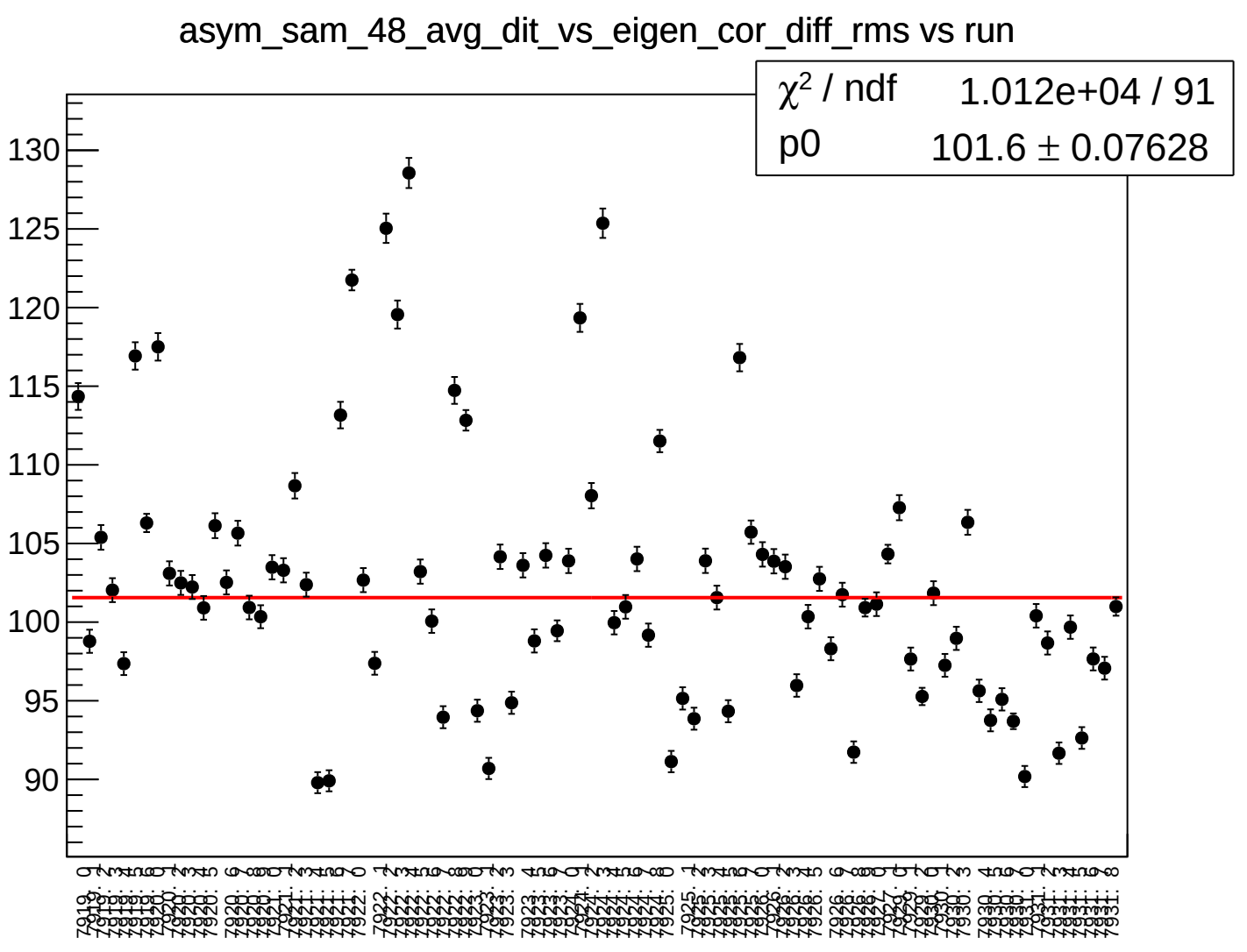

asym_sam_48_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.041e+06 / 91
p0 2.617e−10 ± 3.039e−13
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

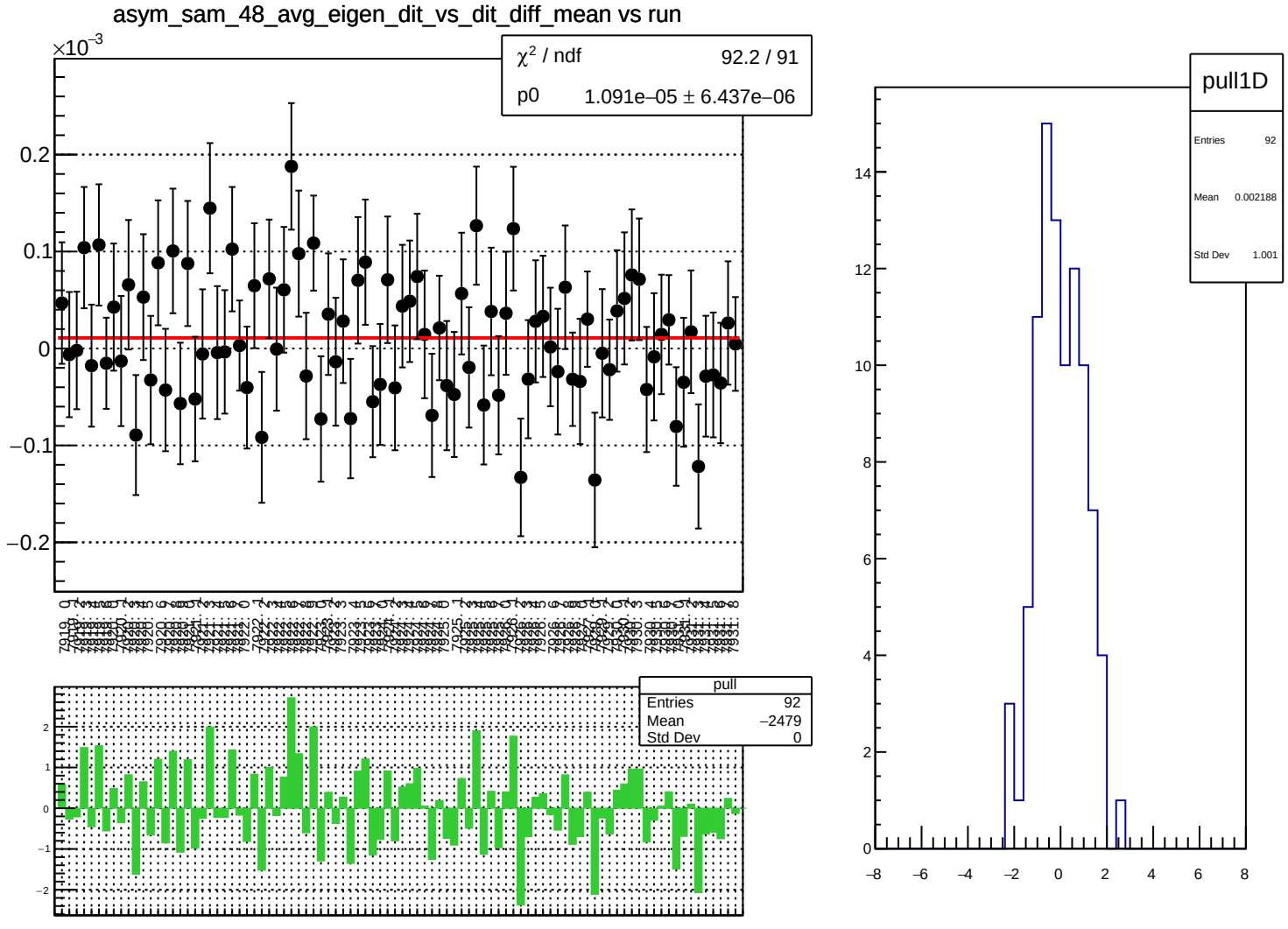

asym_sam_48_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 87.62 / 91
p0 −0.06228 ± 0.1079
pull
Entries 92
Mean 86.29
Std Dev 41

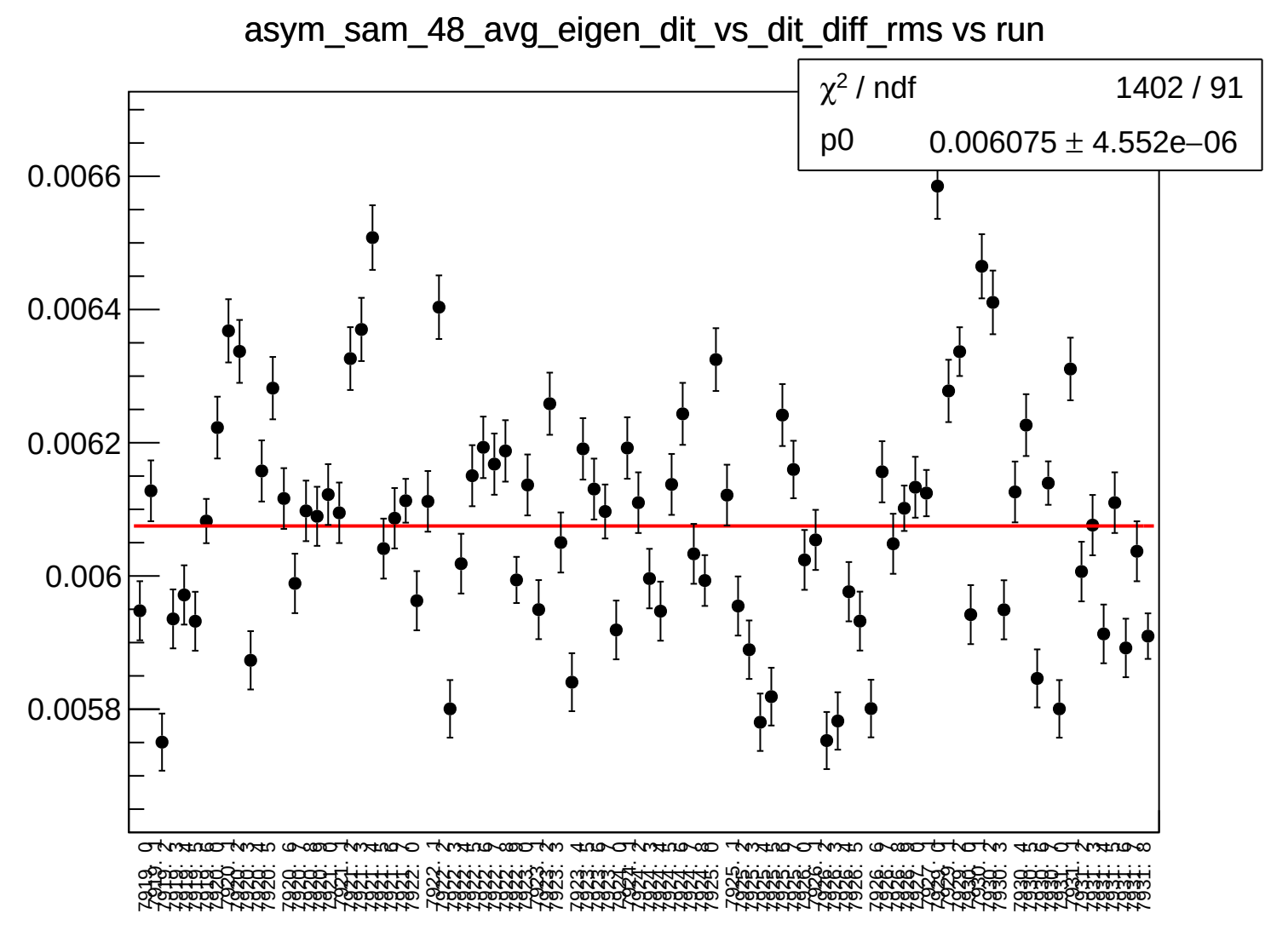

pull1D
Entries 92
Mean 0.002013
Std Dev 0.9759

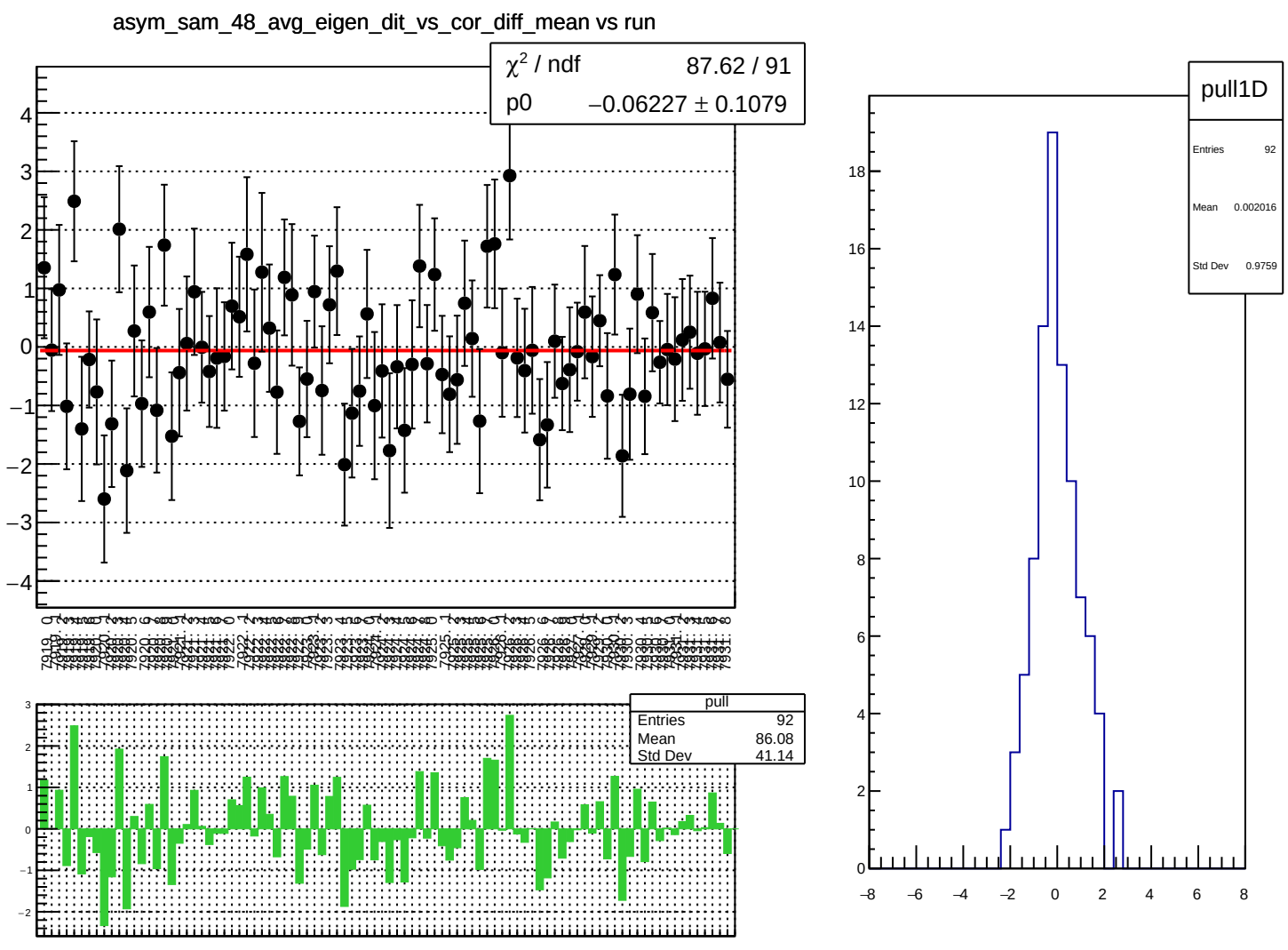

asym_sam_48_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.012e+04 / 91
p0 101.6 ± 0.07628
130
125
120
115
110
105
100
95
90

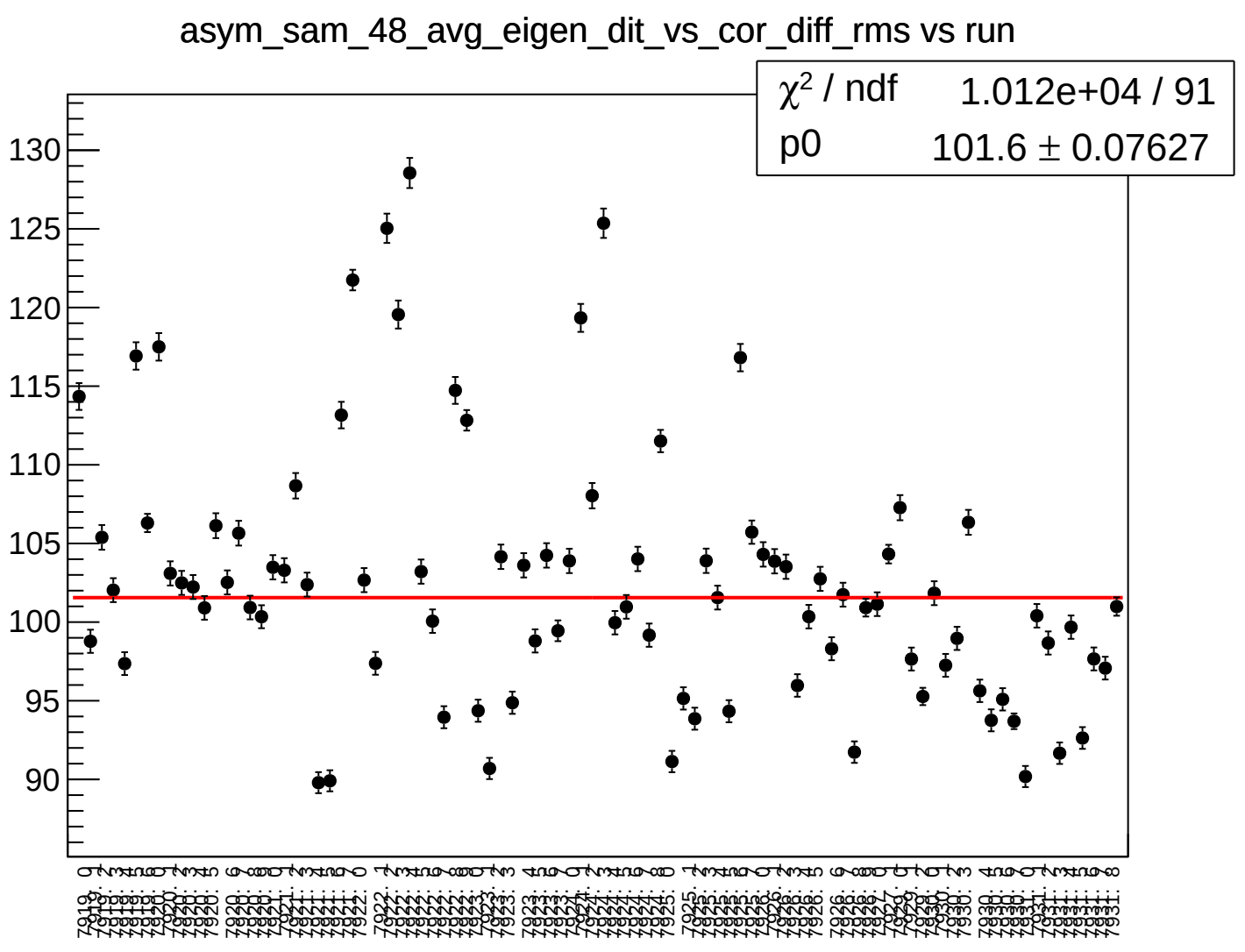

asym_sam_48_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.62 / 91
p0 −0.06228 ± 0.1079
pull
Entries 92
Mean 86.29
Std Dev 41
pull1D
Entries 92
Mean 0.002013
Std Dev 0.9759

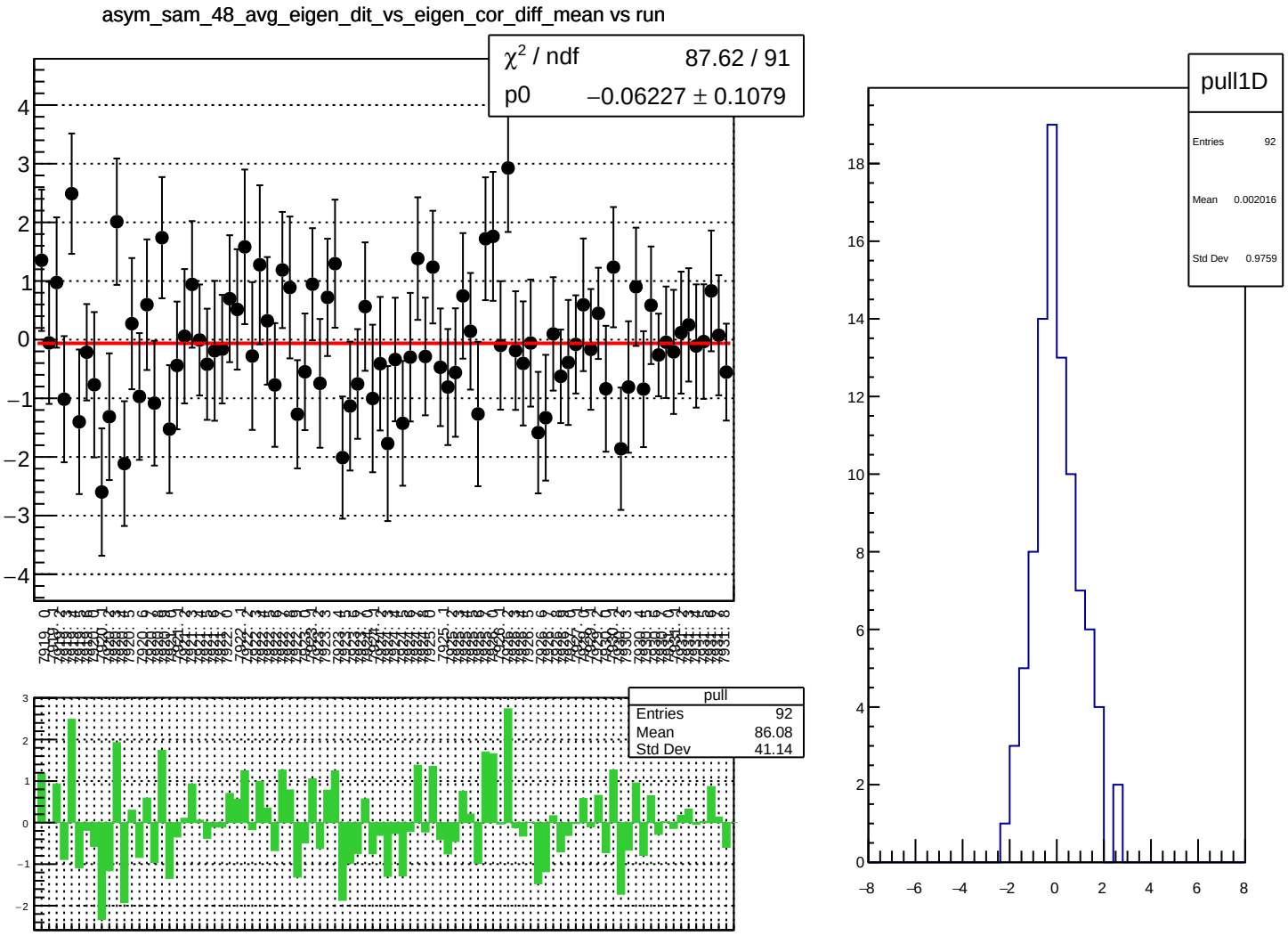

asym_sam_48_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.012e+04 / 91
p0 101.6 ± 0.07628
130
125
120
115
110
105
100
95
90

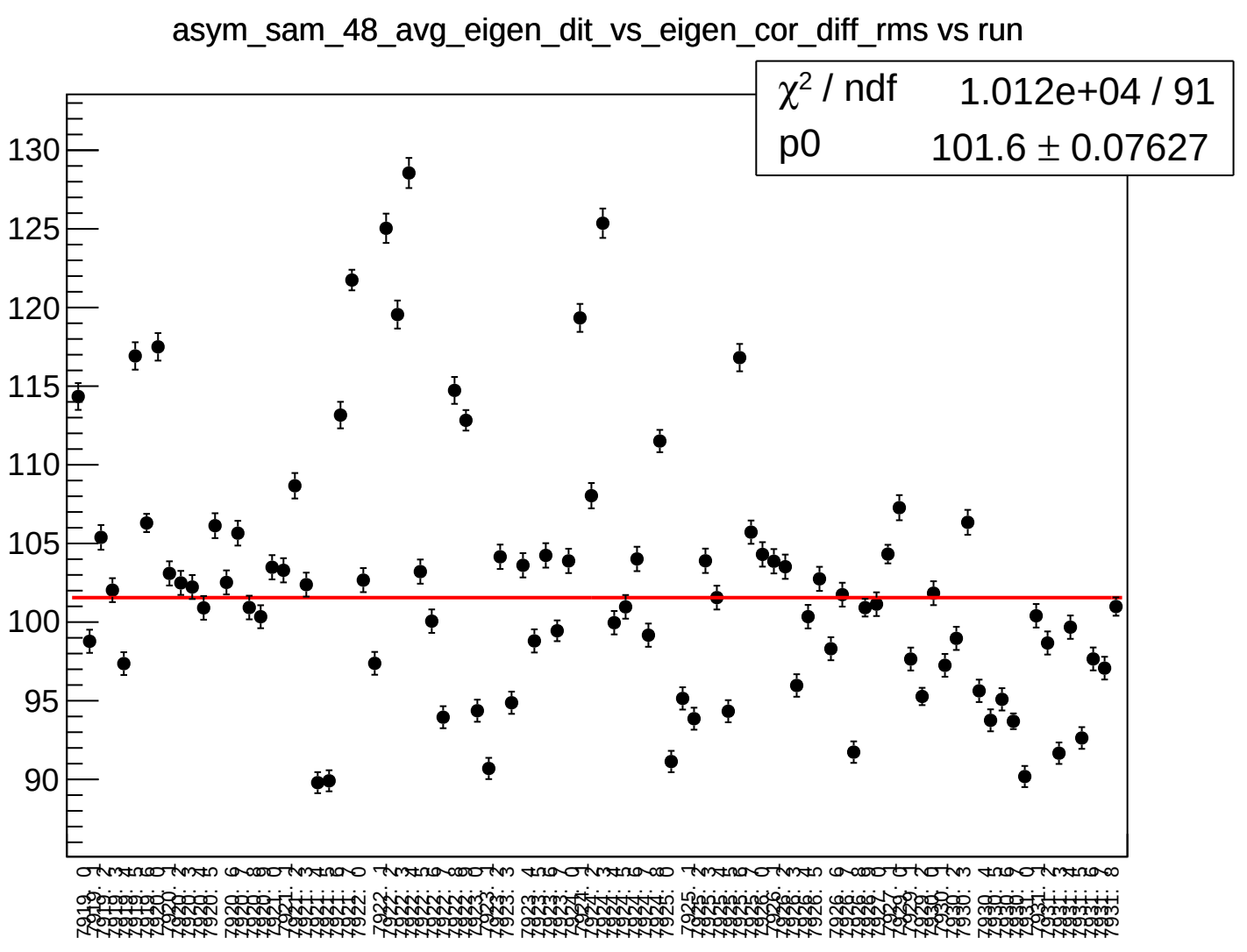

asym_sam_48_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.2 / 91
p0 1.091e−05 ± 6.437e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 92
Mean −2479
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.002188
Std Dev 1.001
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

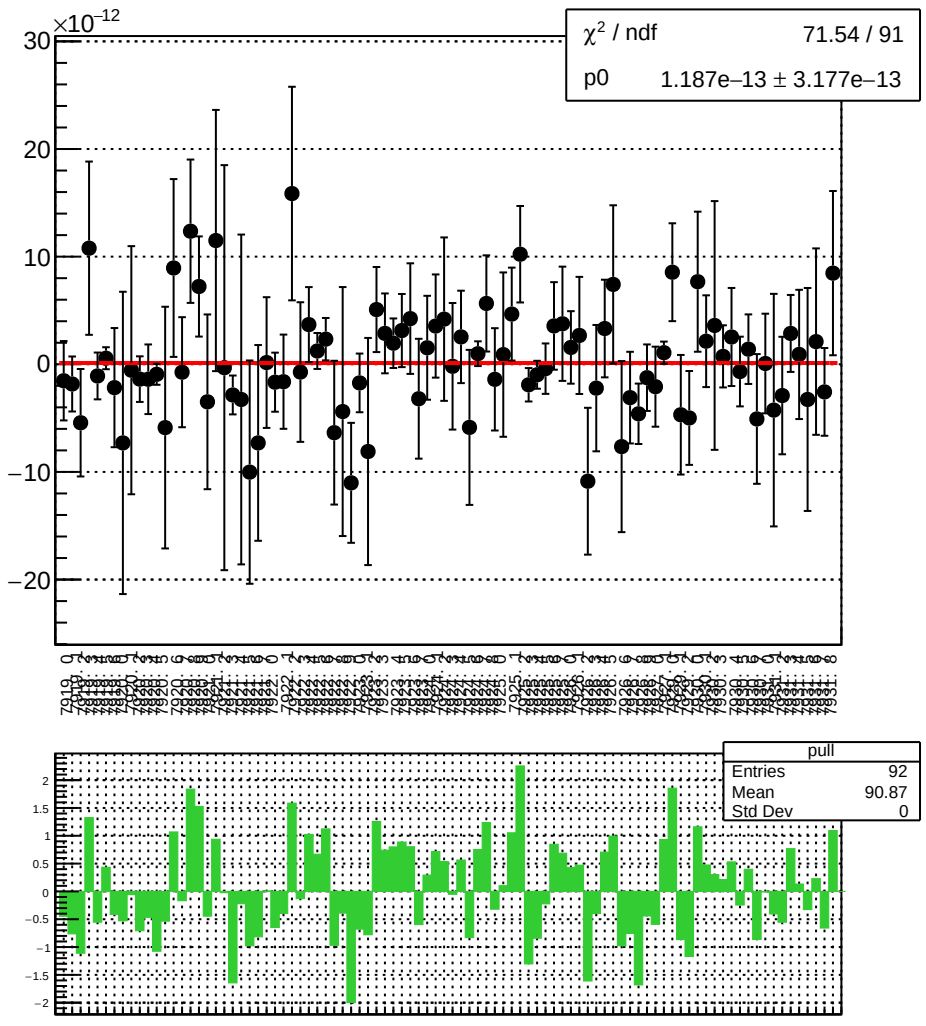

asym_sam_48_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1402 / 91
p0 0.006075 ± 4.552e−06
0.0066
0.0064
0.0062
0.006
0.0058

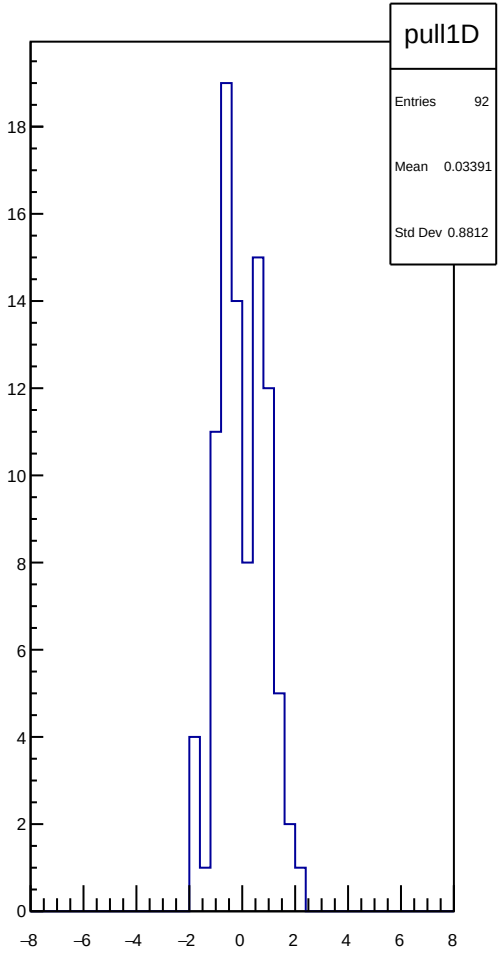

asym_sam_48_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.62 / 91
p0 −0.06227 ± 0.1079
pull
Entries 92
Mean 86.08
Std Dev 41.14
pull1D
Entries 92
Mean 0.002016
Std Dev 0.9759

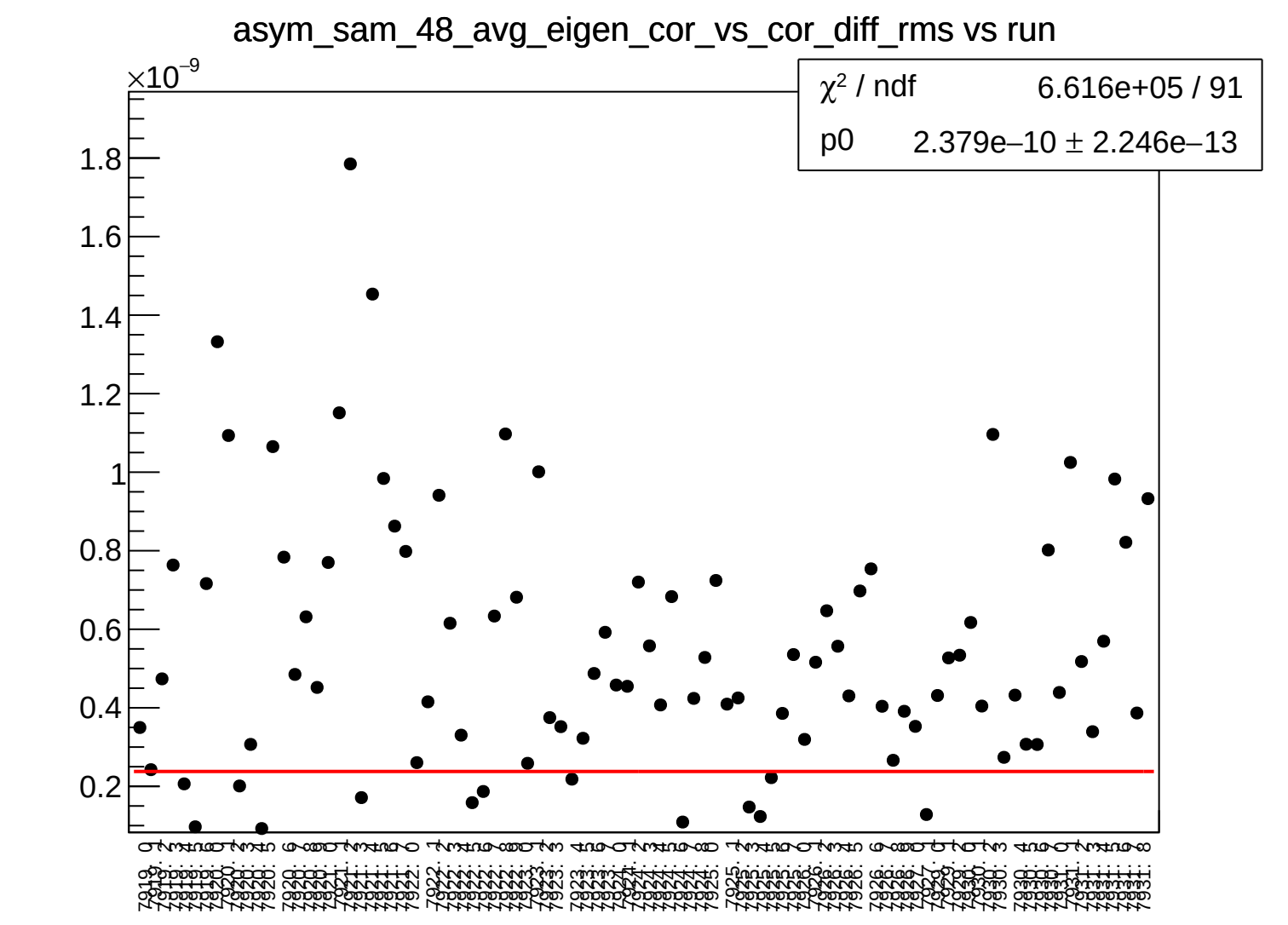

asym_sam_48_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.012e+04 / 91
p0 101.6 ± 0.07627
130
125
120
115
110
105
100
95
90

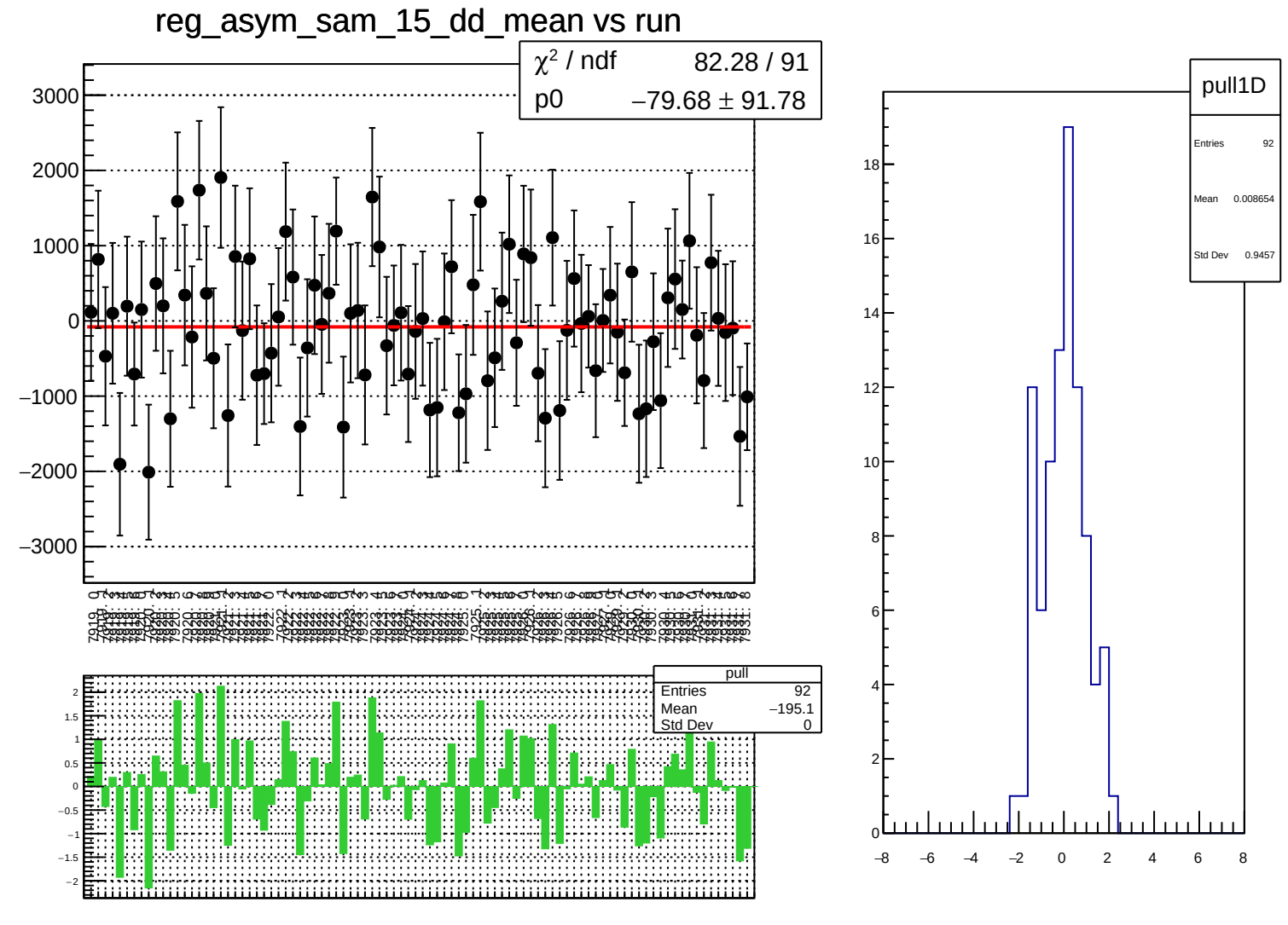

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.62 / 91
p0 −0.06227 ± 0.1079
pull
Entries 92
Mean 86.08
Std Dev 41.14
pull1D
Entries 92
Mean 0.002016
Std Dev 0.9759

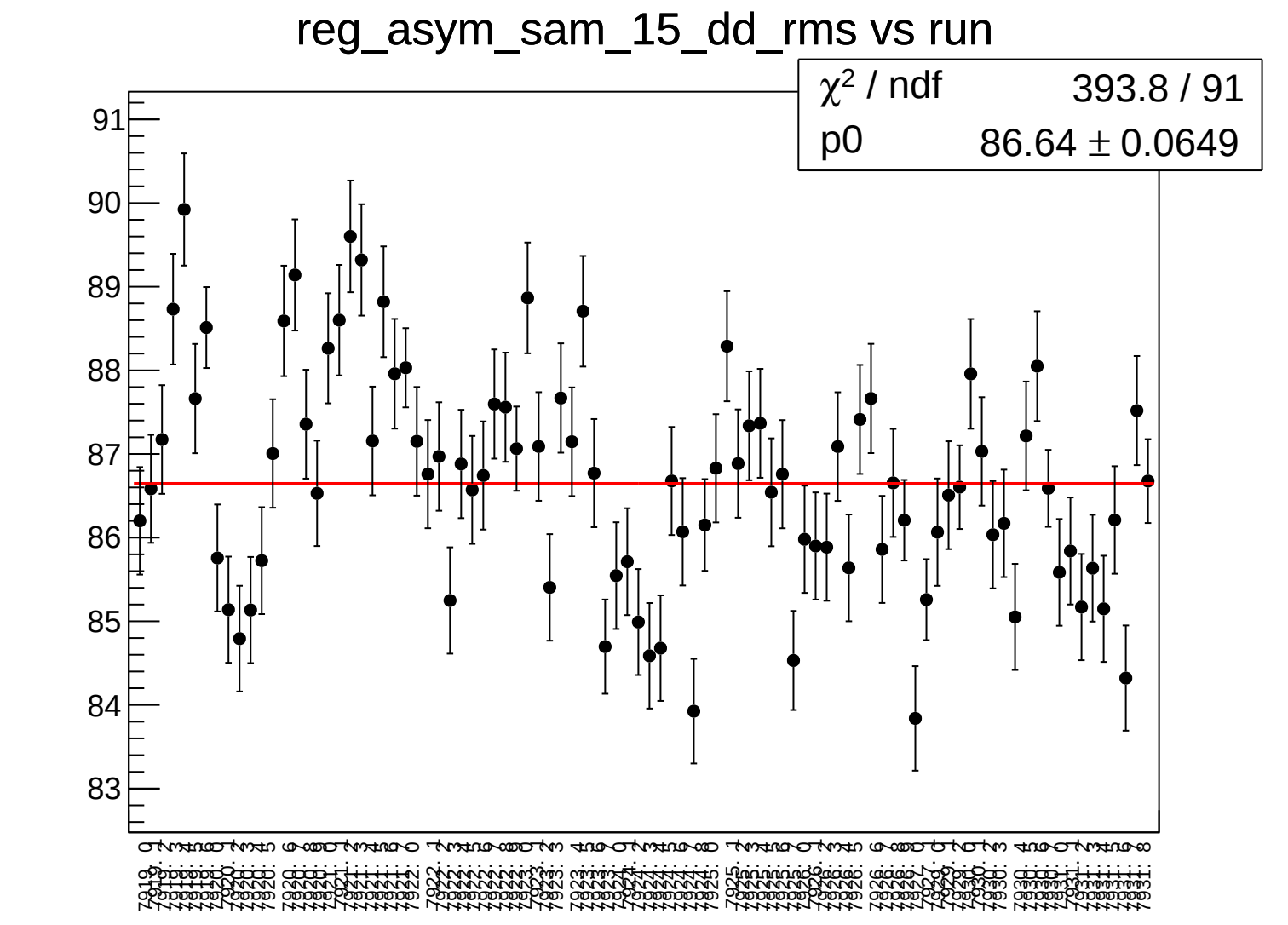

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.012e+04 / 91
p0 101.6 ± 0.07627
130
125
120
115
110
105
100
95
90

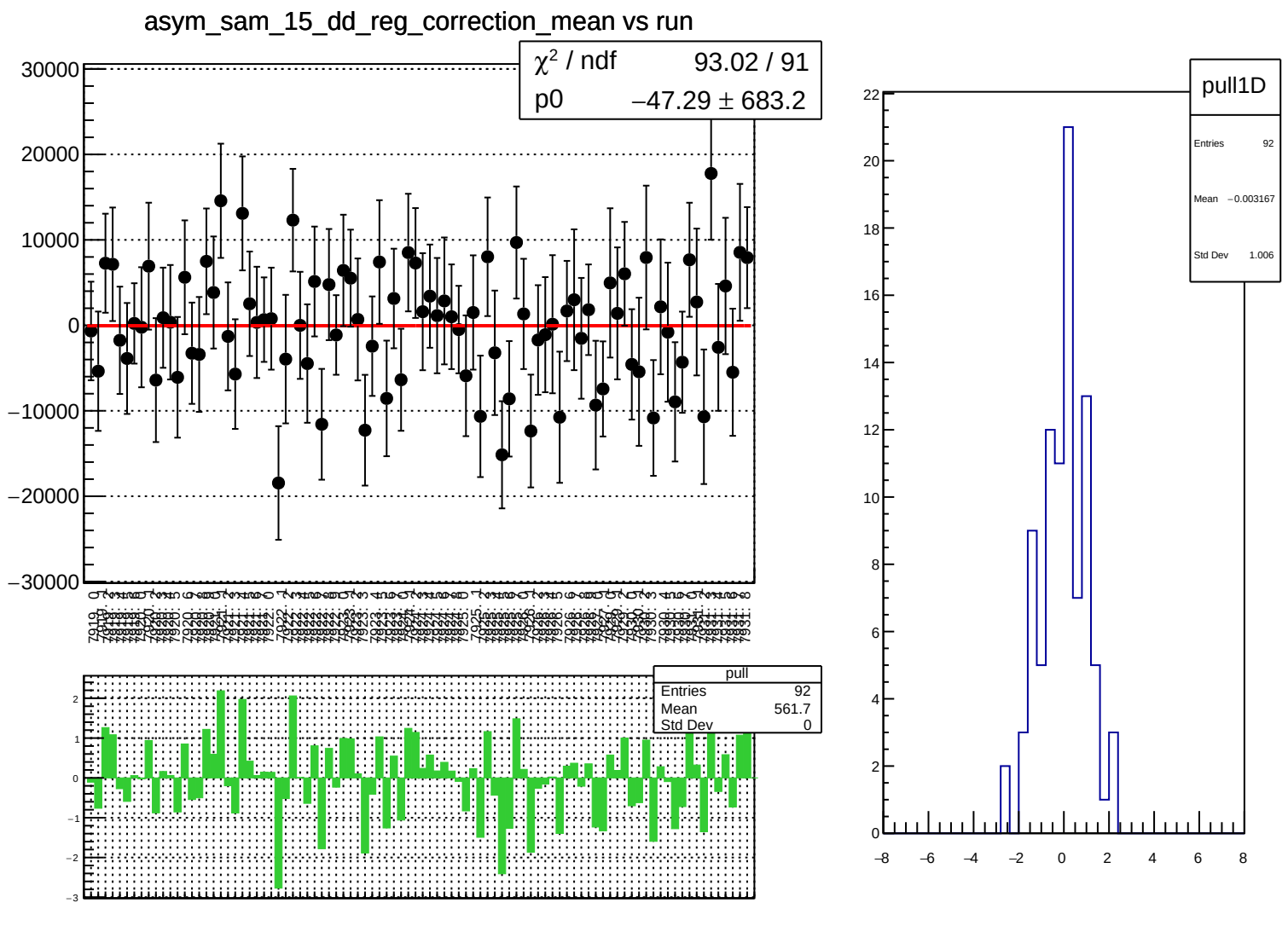

asym_sam_48_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 71.54 / 91
p0 1.187e−13 ± 3.177e−13
pull
Entries 92
Mean 90.87
Std Dev 0

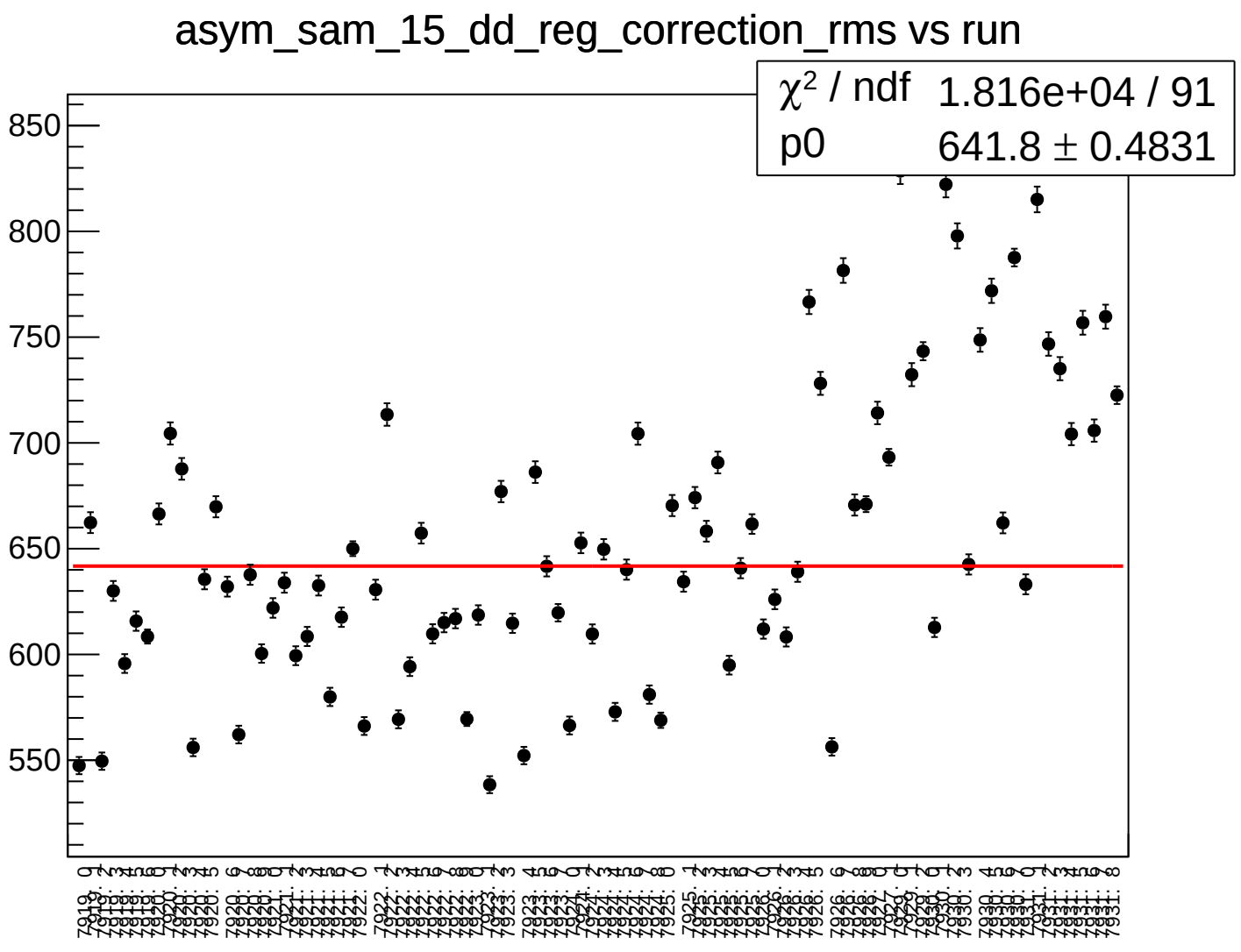

pull1D
Entries 92
Mean 0.03391
Std Dev 0.8812

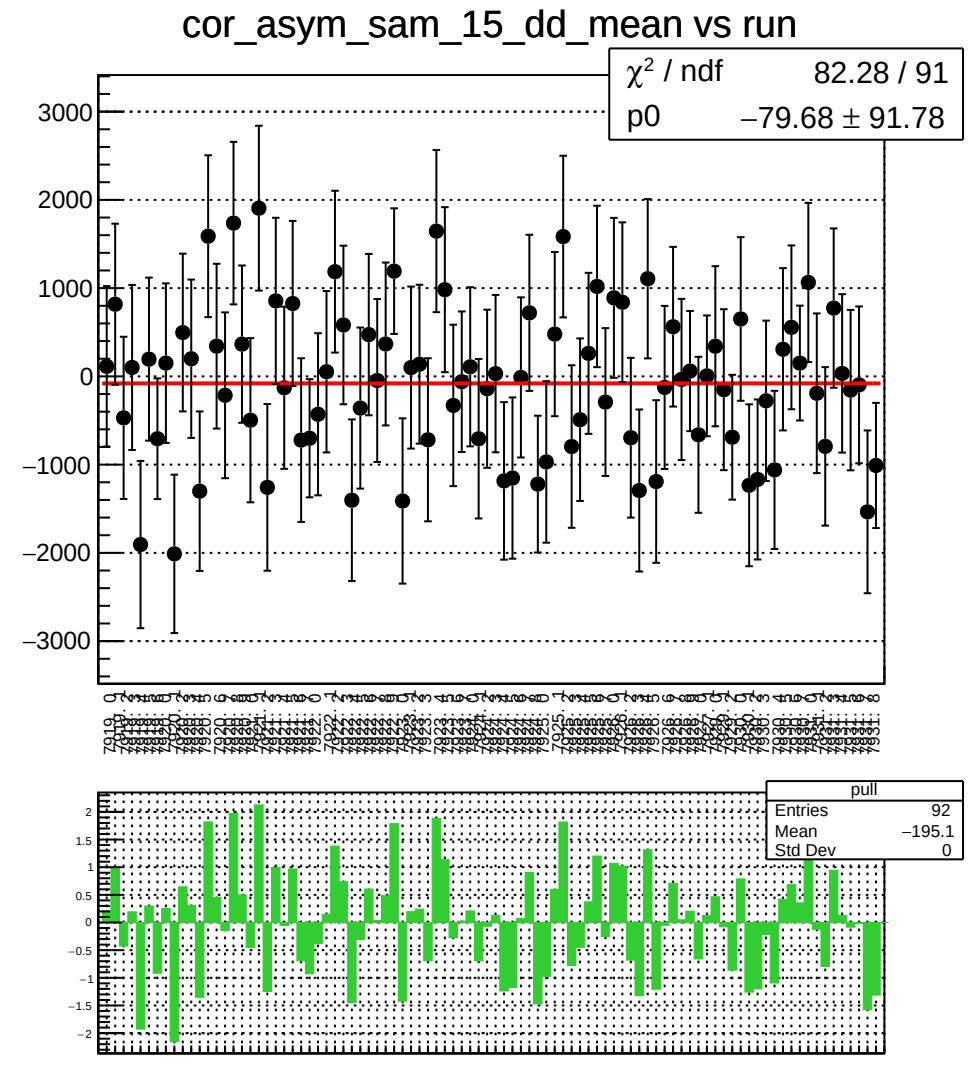

asym_sam_48_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.616e+05 / 91
p0 2.379e−10 ± 2.246e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

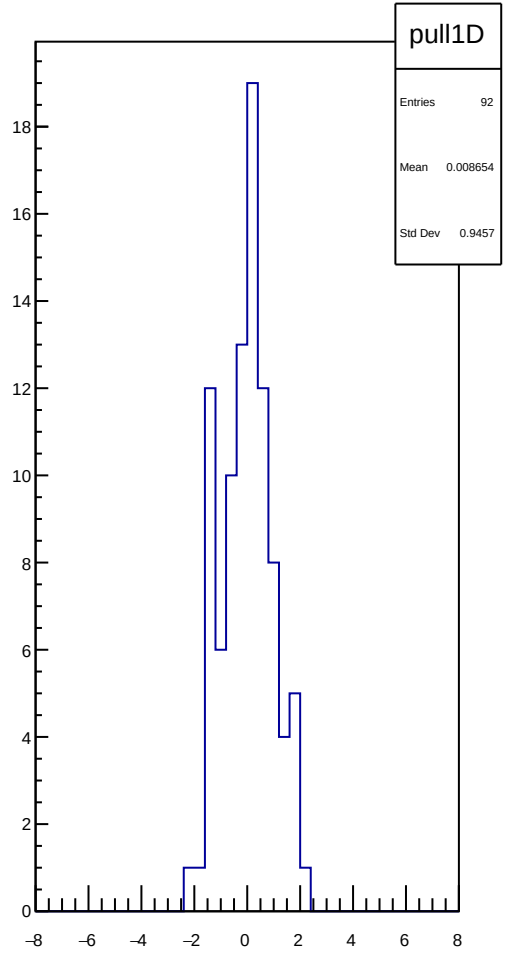

reg_asym_sam_15_dd_mean vs run
χ² / ndf 82.28 / 91
p0 −79.68 ± 91.78
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 92
Mean −195.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean 0.008654
Std Dev 0.9457
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

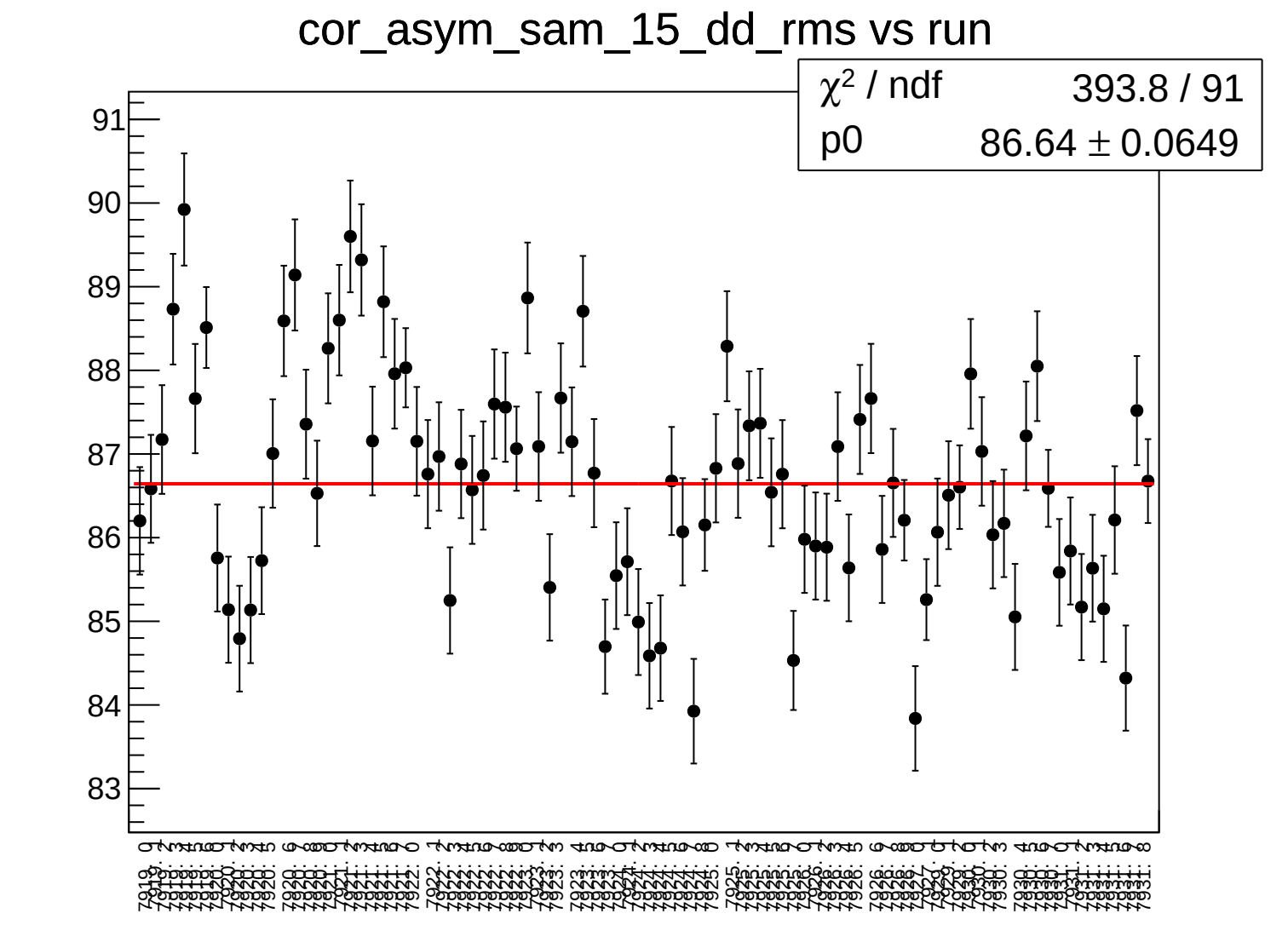

reg_asym_sam_15_dd_rms vs run
χ^2 / ndf 393.8 / 91
p0 86.64 ± 0.0649
91
90
89
88
87
86
85
84
83

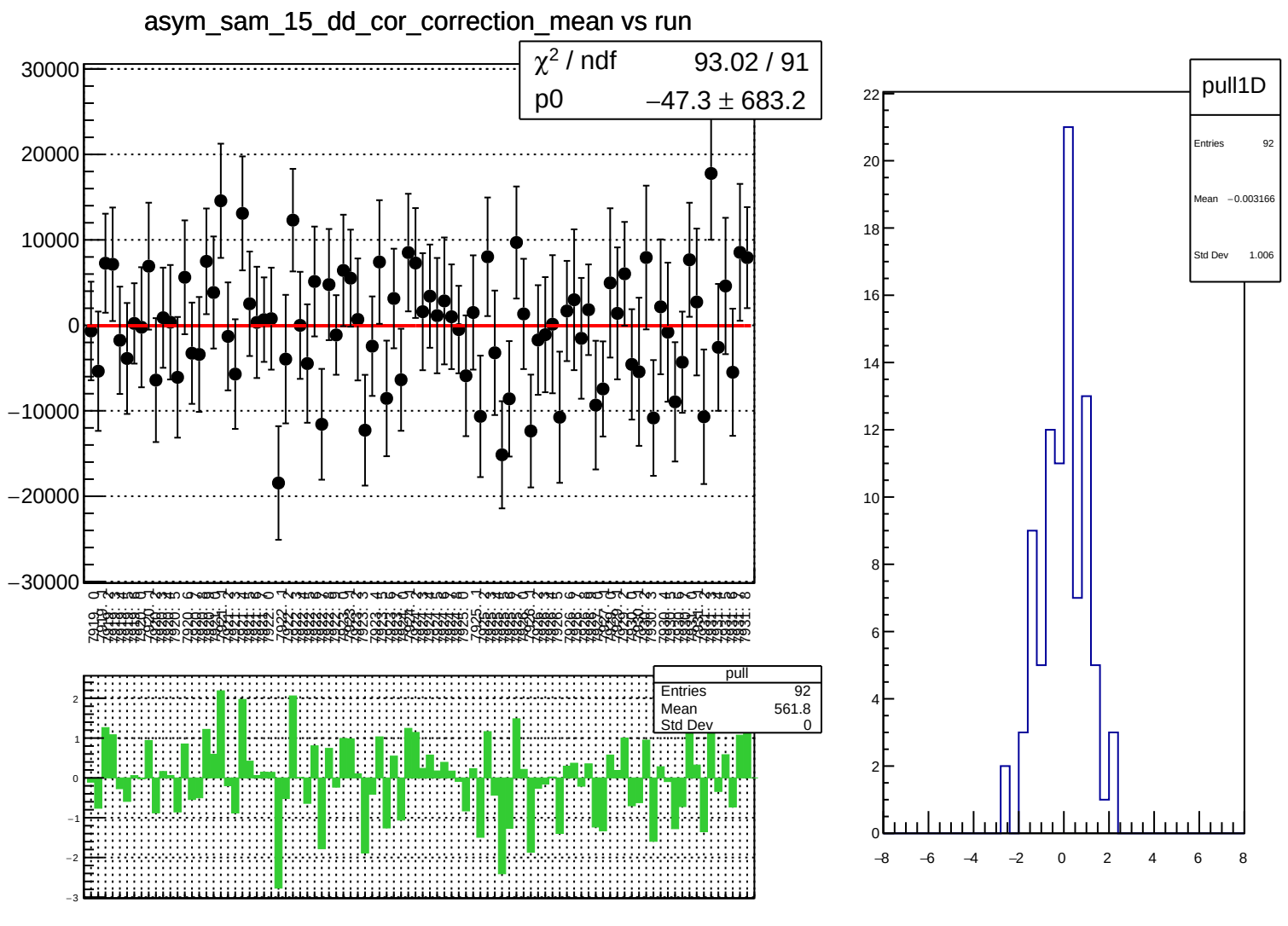

asym_sam_15_dd_reg_correction_mean vs run
χ² / ndf 93.02 / 91
p0 −47.29 ± 683.2
pull
Entries 92
Mean 561.7
Std Dev 0
pull1D
Entries 92
Mean −0.003167
Std Dev 1.006

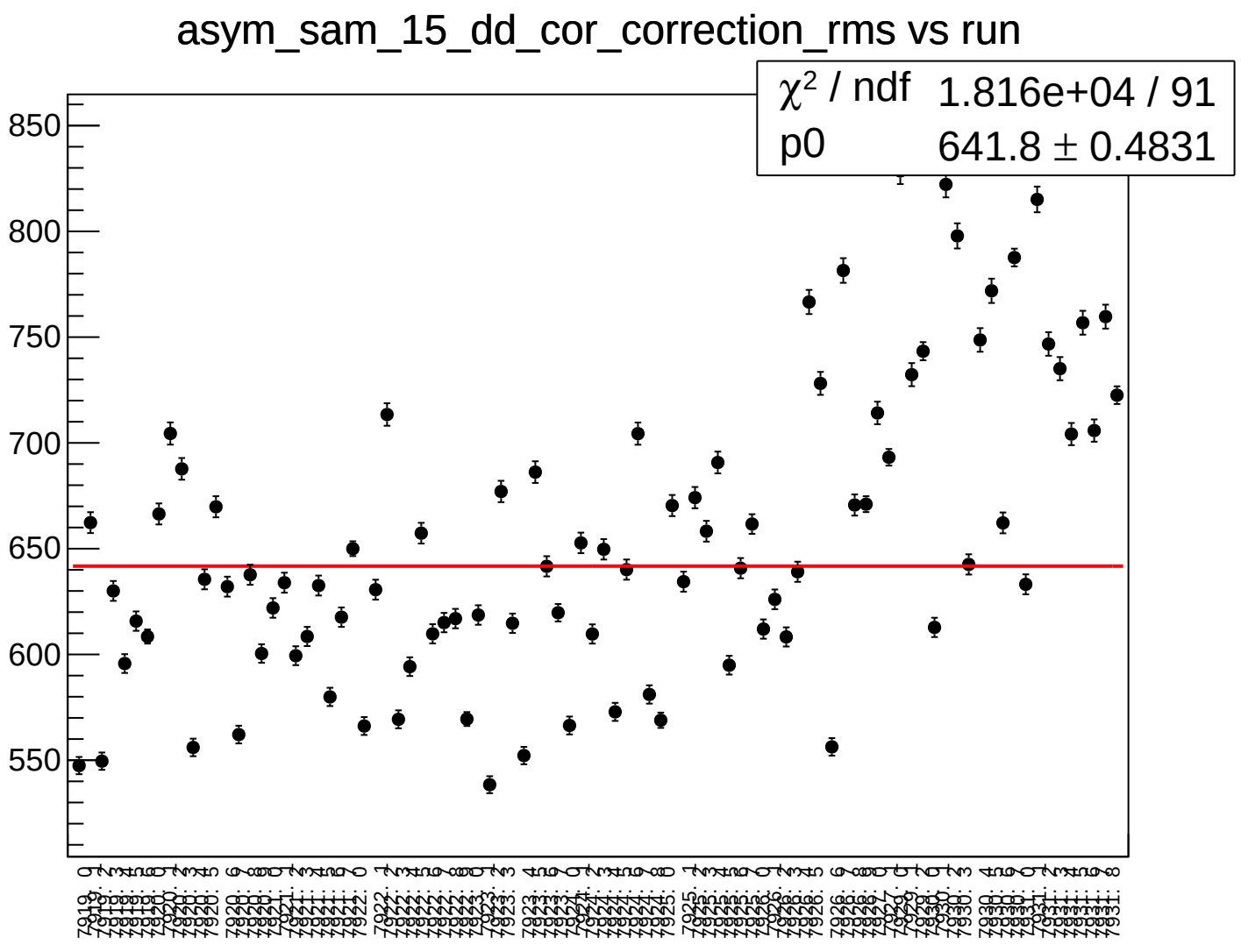

asym_sam_15_dd_reg_correction_rms vs run
χ² / ndf 1.816e+04 / 91
p0 641.8 ± 0.4831
850
800
750
700
650
600
550

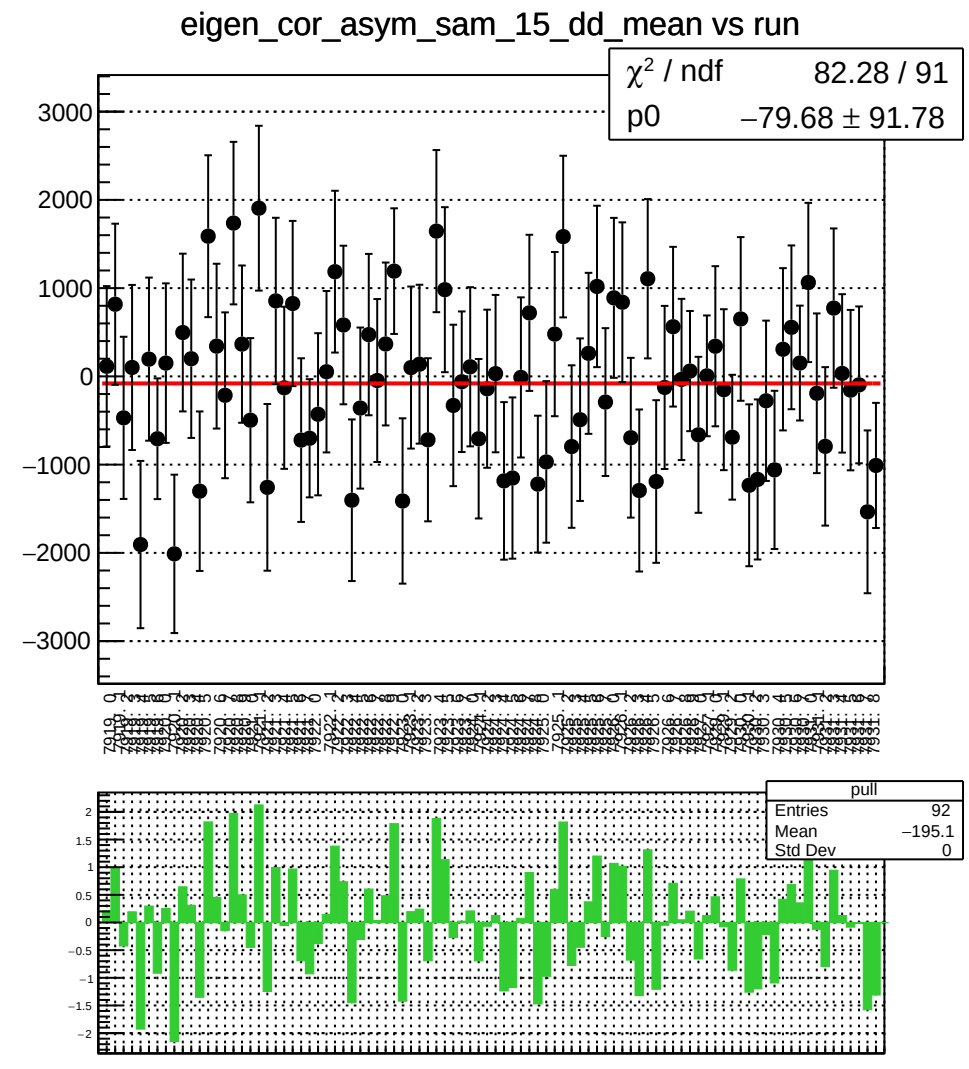

cor_asym_sam_15_dd_mean vs run
χ² / ndf 82.28 / 91
p0 −79.68 ± 91.78
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 92
Mean −195.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

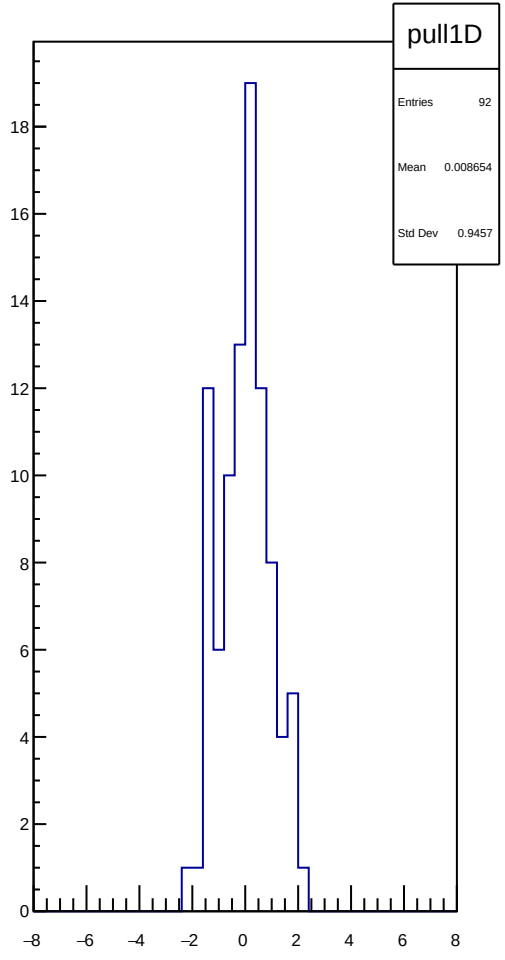

pull1D
Entries 92
Mean 0.008654
Std Dev 0.9457
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

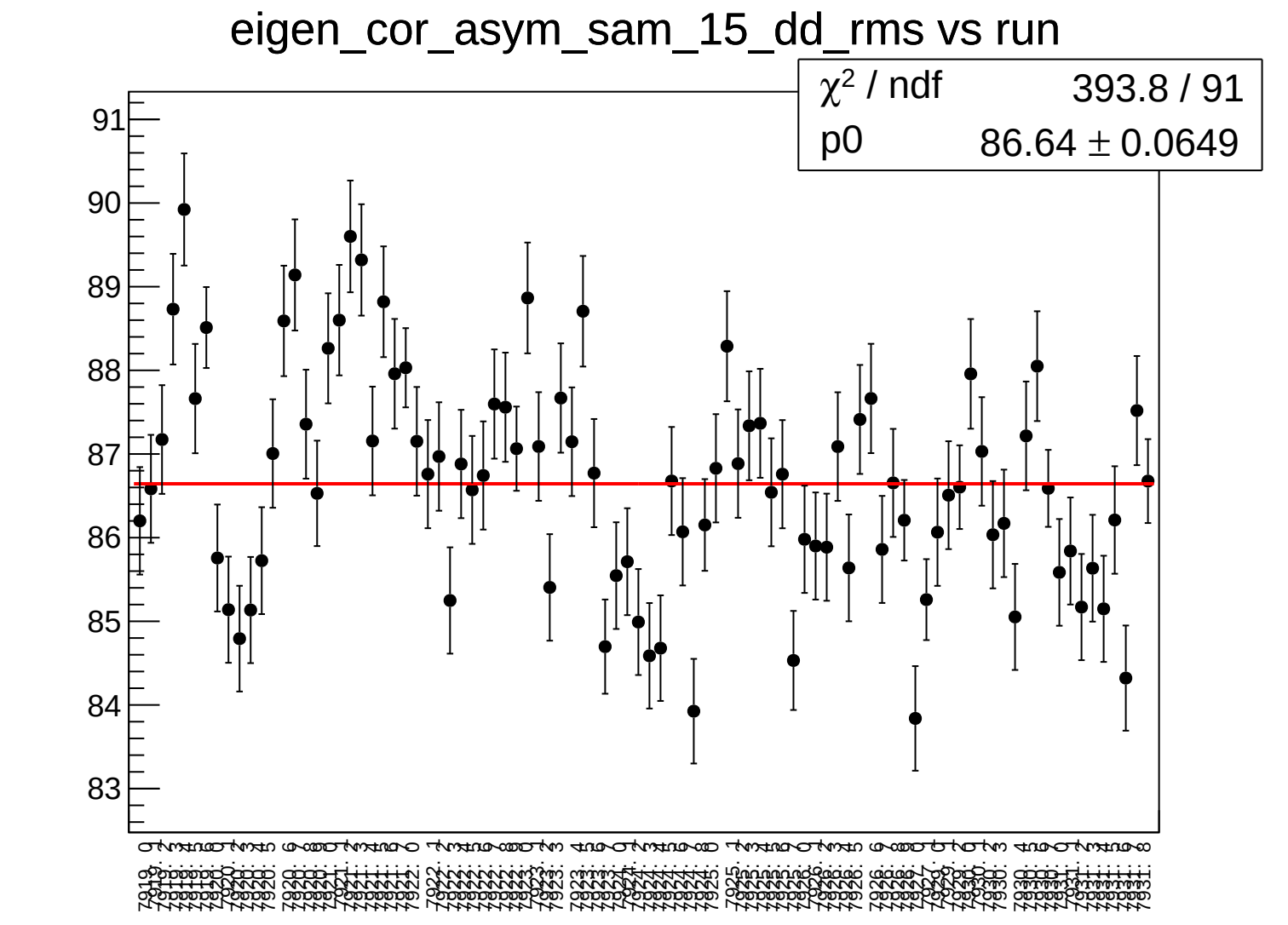

cor_asym_sam_15_dd_rms vs run
χ^2 / ndf 393.8 / 91
p0 86.64 ± 0.0649
91
90
89
88
87
86
85
84
83

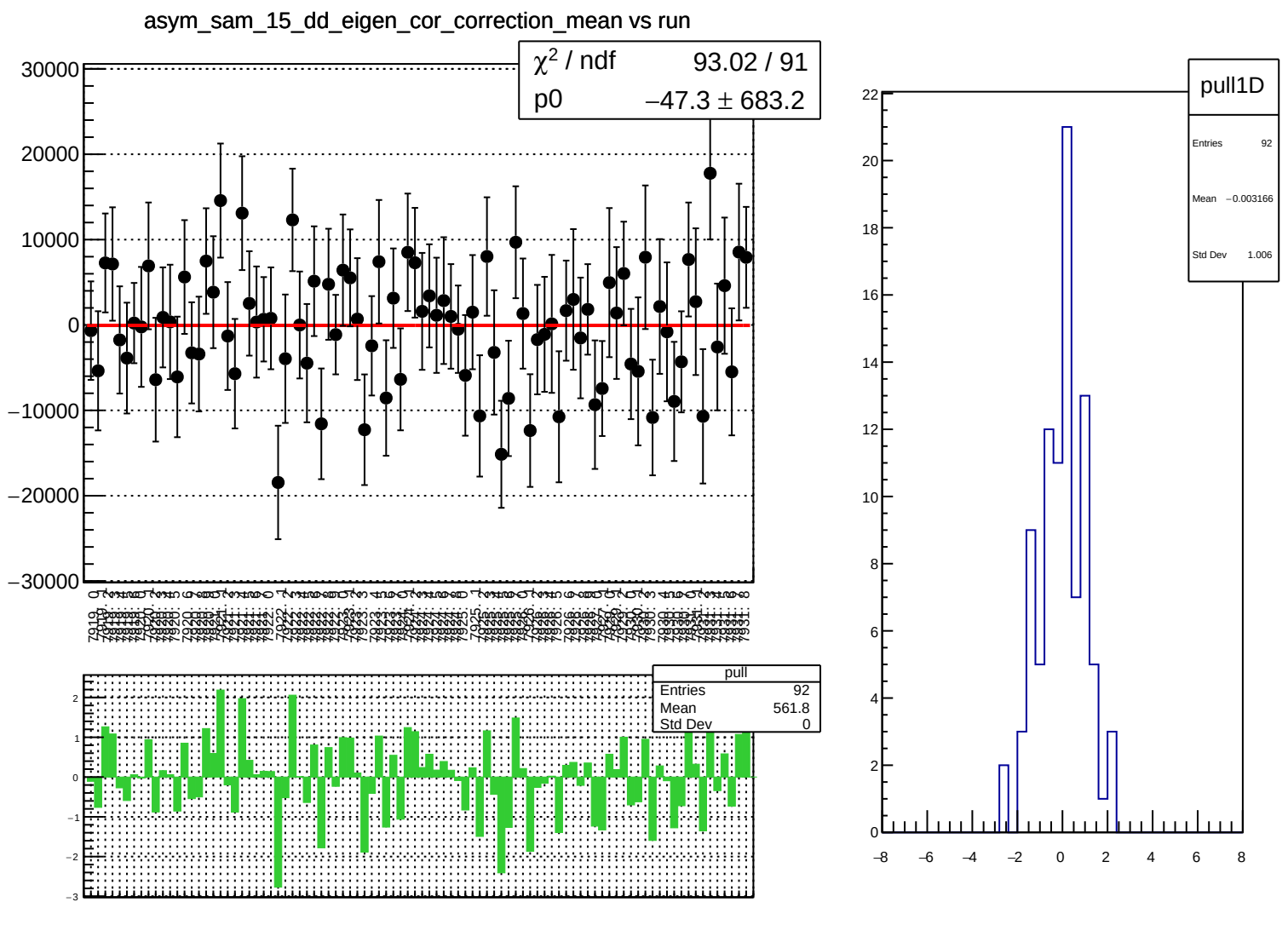

asym_sam_15_dd_cor_correction_mean vs run
χ² / ndf 93.02 / 91
p0 −47.3 ± 683.2
pull
Entries 92
Mean 561.8
Std Dev 0
pull1D
Entries 92
Mean −0.003166
Std Dev 1.006

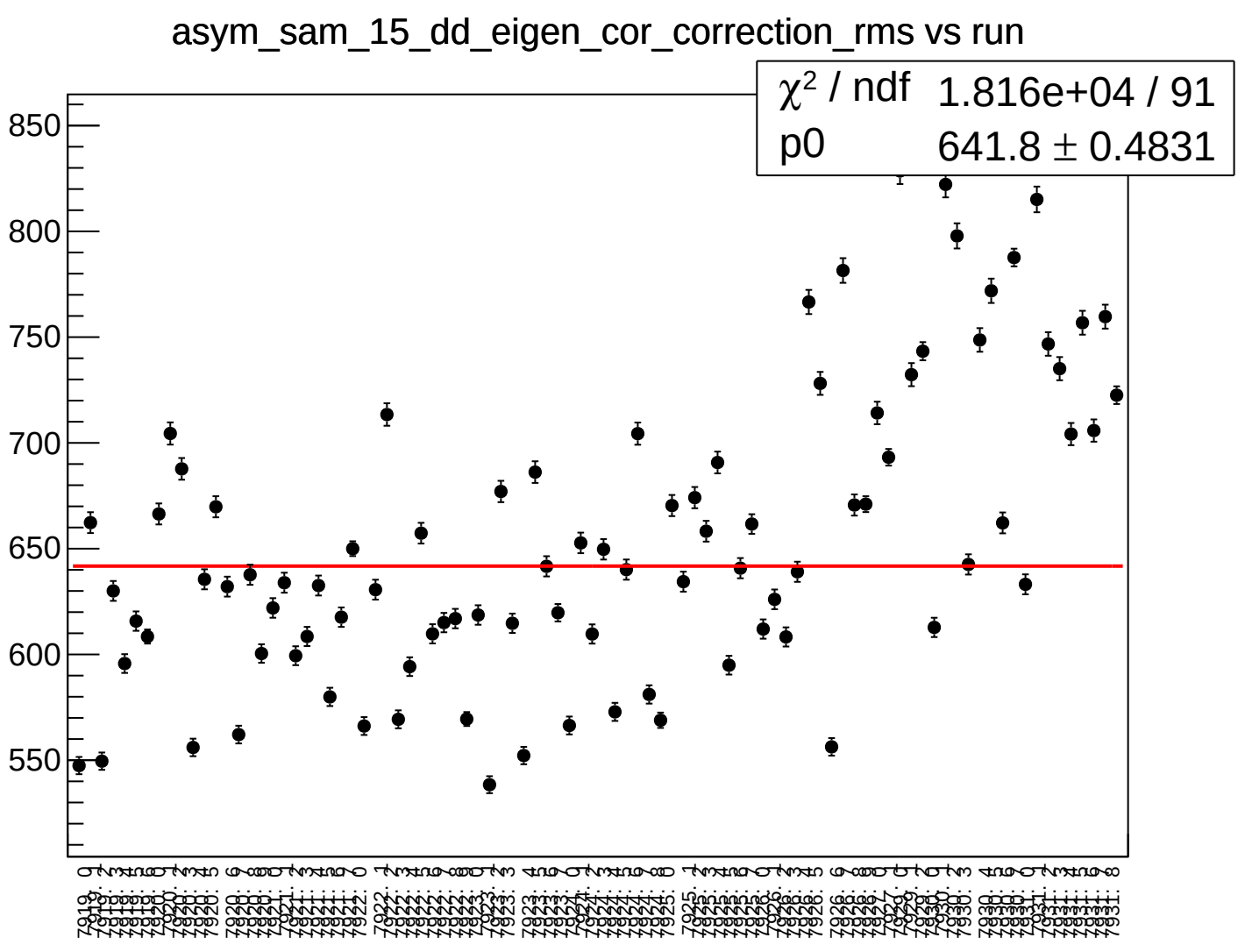

asym_sam_15_dd_cor_correction_rms vs run
χ² / ndf 1.816e+04 / 91
p0 641.8 ± 0.4831
850
800
750
700
650
600
550

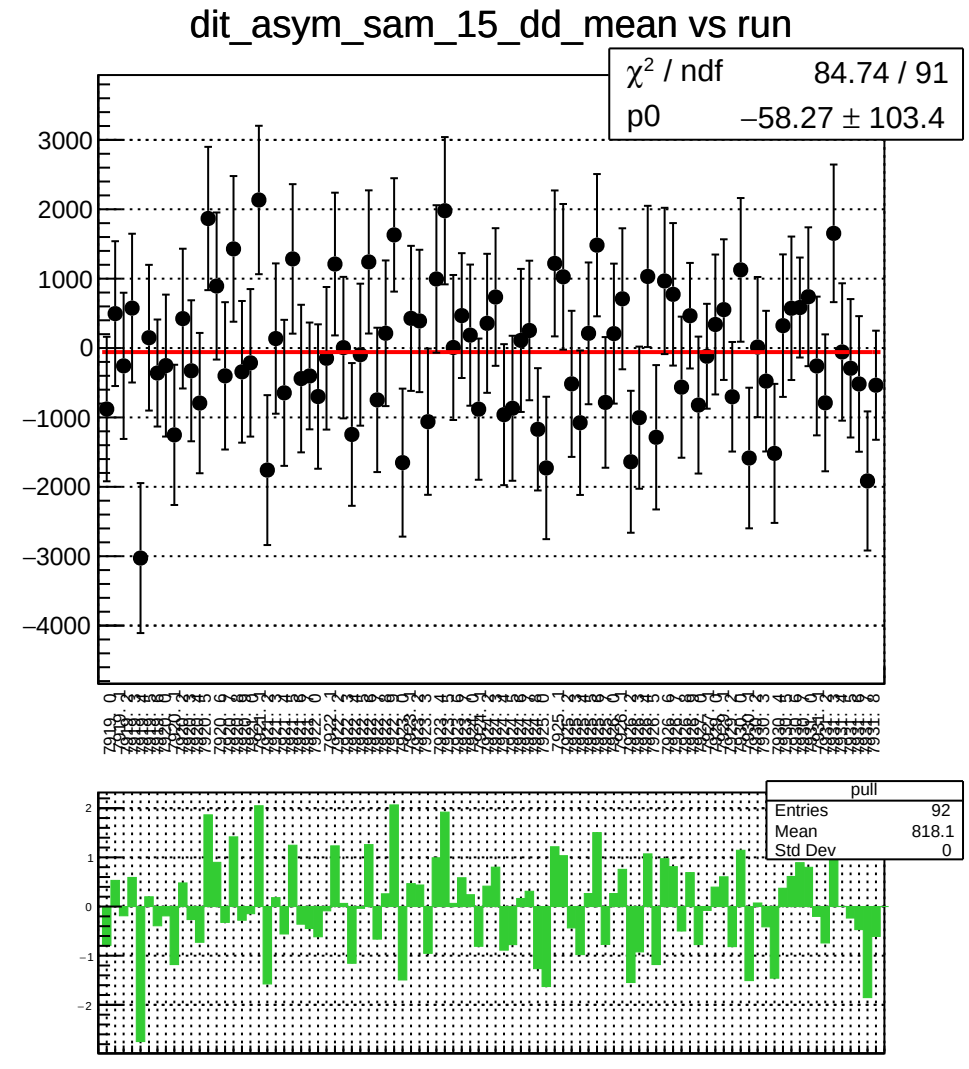

eigen_cor_asym_sam_15_dd_mean vs run
χ² / ndf 82.28 / 91
p0 −79.68 ± 91.78
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 92
Mean −195.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

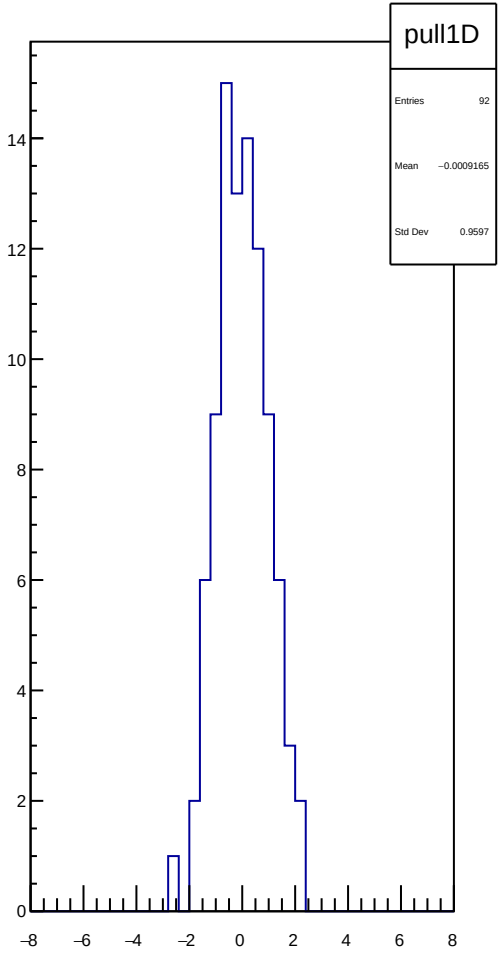

pull1D
Entries 92
Mean 0.008654
Std Dev 0.9457
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

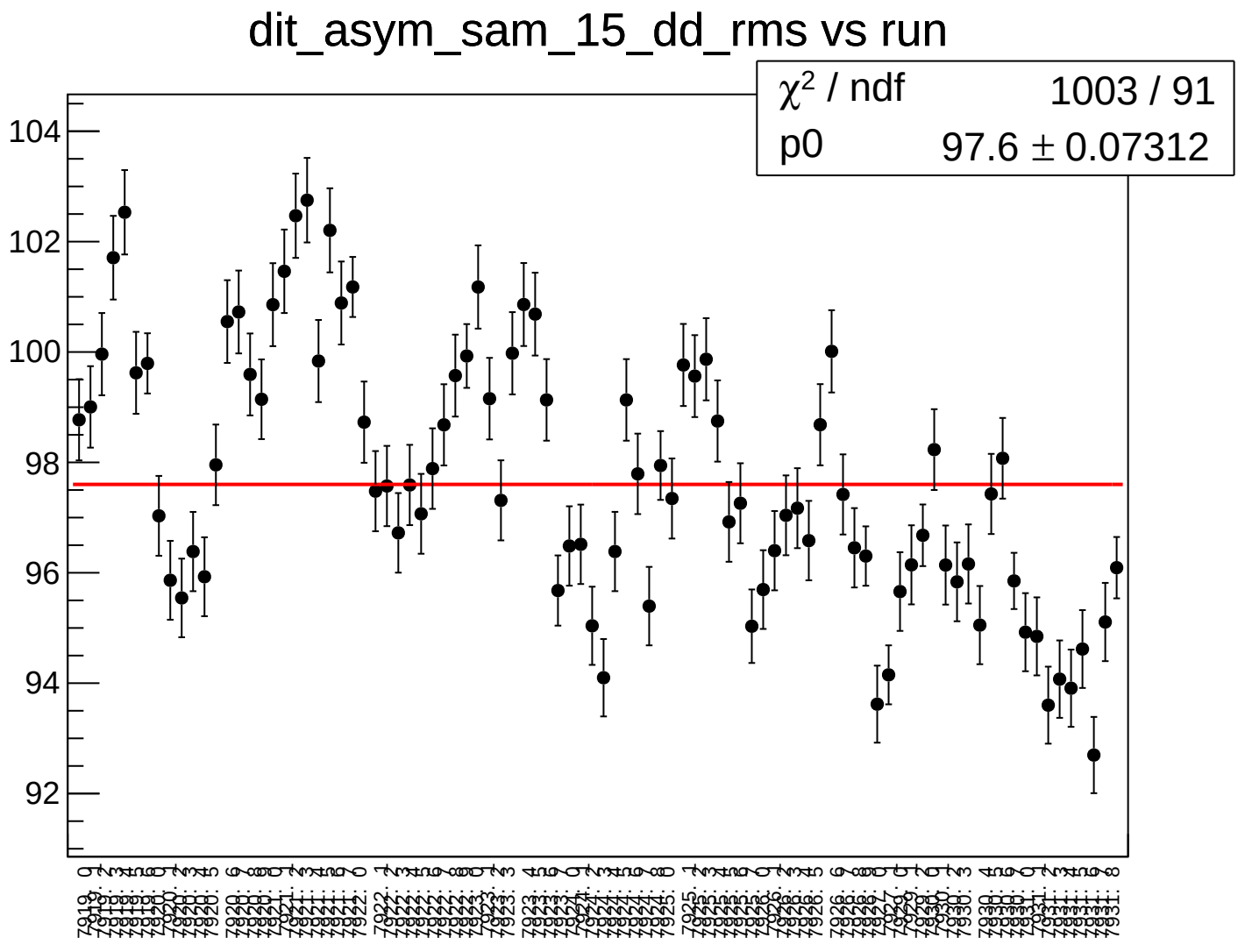

eigen_cor_asym_sam_15_dd_rms vs run
χ^2 / ndf 393.8 / 91
p0 86.64 ± 0.0649
91
90
89
88
87
86
85
84
83

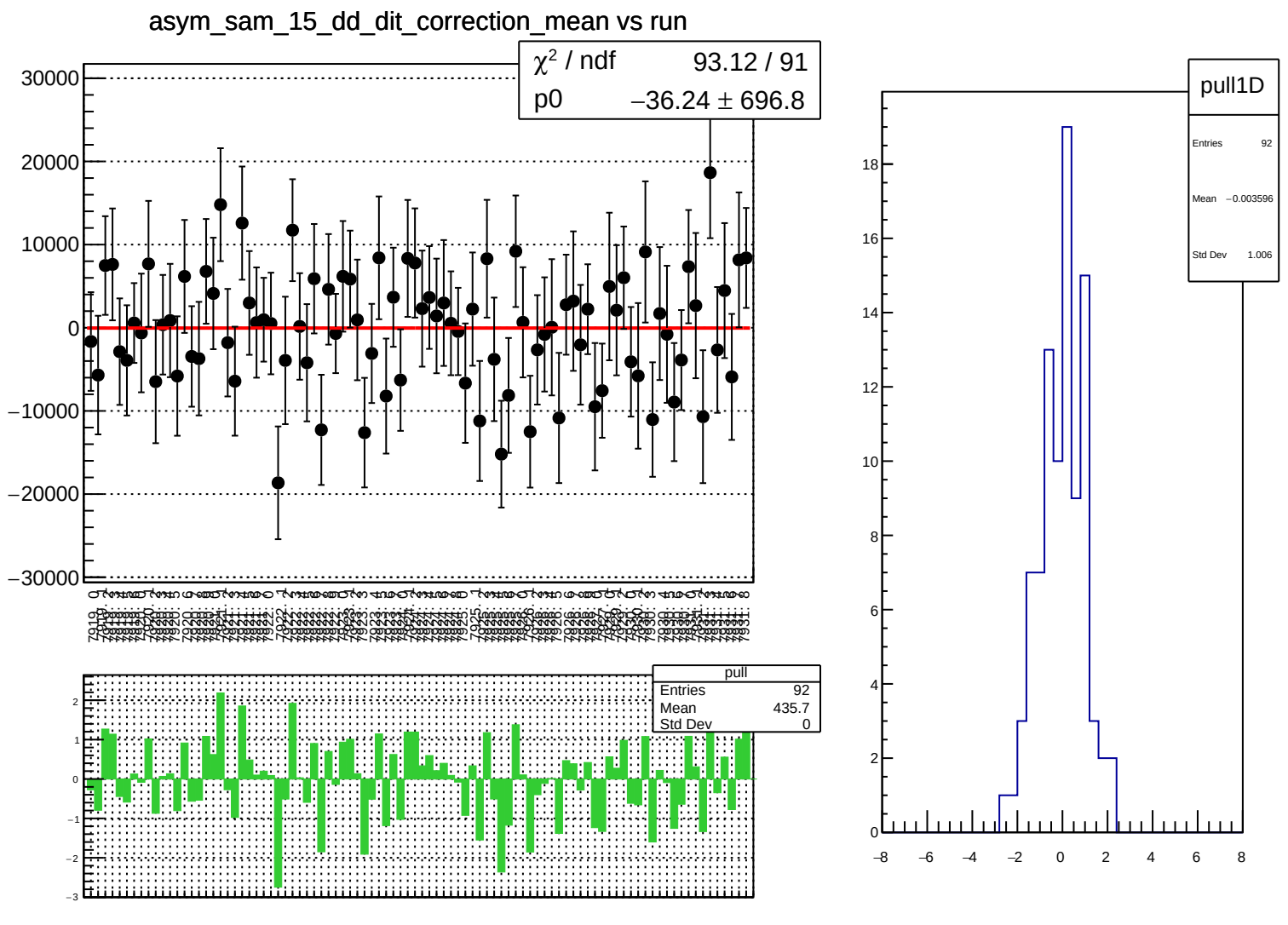

asym_sam_15_dd_eigen_cor_correction_mean vs run
χ² / ndf 93.02 / 91
p0 −47.3 ± 683.2
pull
Entries 92
Mean 561.8
Std Dev 0
pull1D
Entries 92
Mean −0.003166
Std Dev 1.006

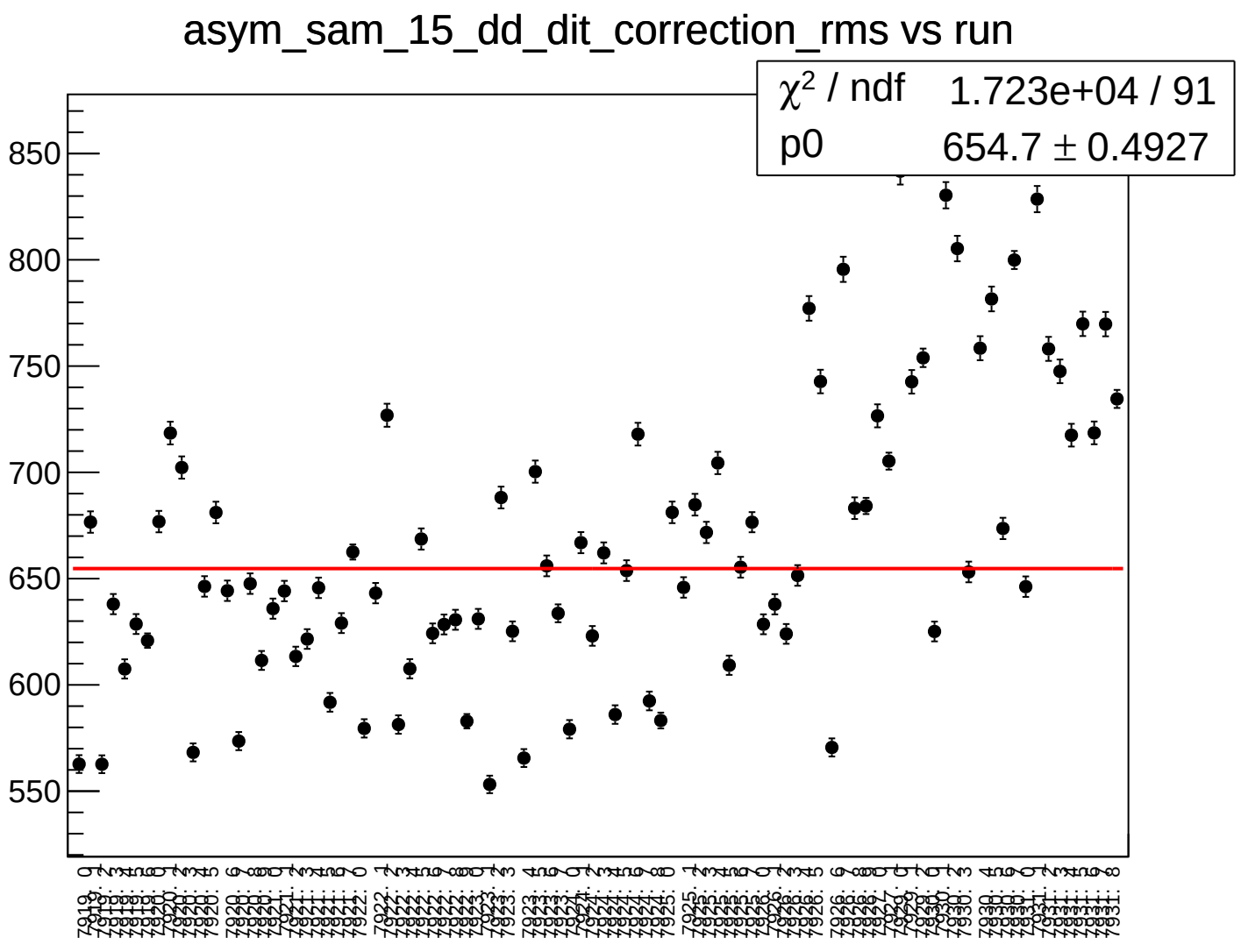

asym_sam_15_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.816e+04 / 91
p0 641.8 ± 0.4831
850
800
750
700
650
600
550

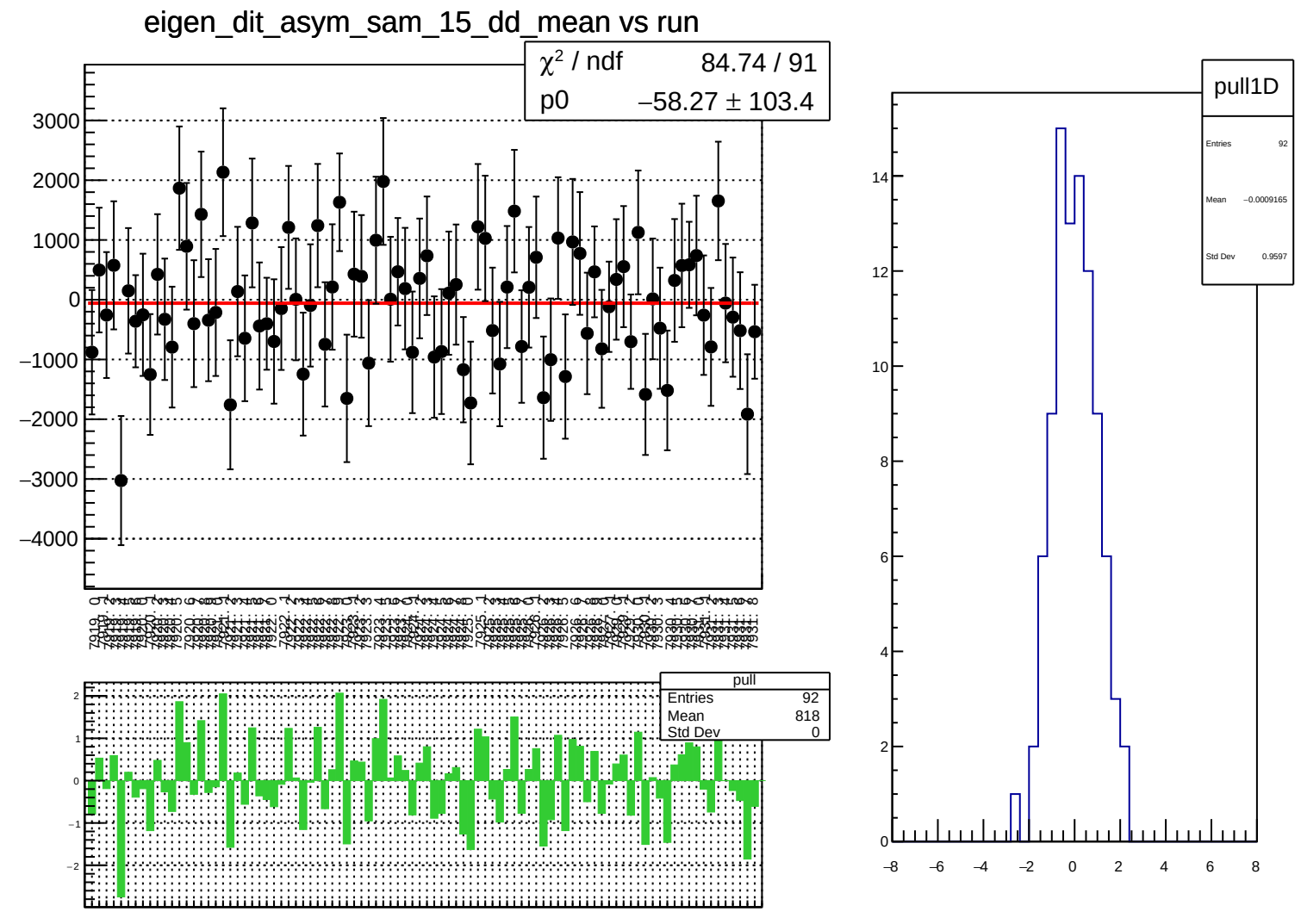

dit_asym_sam_15_dd_mean vs run
χ² / ndf 84.74 / 91
p0 −58.27 ± 103.4
pull
Entries 92
Mean 818.1
Std Dev 0

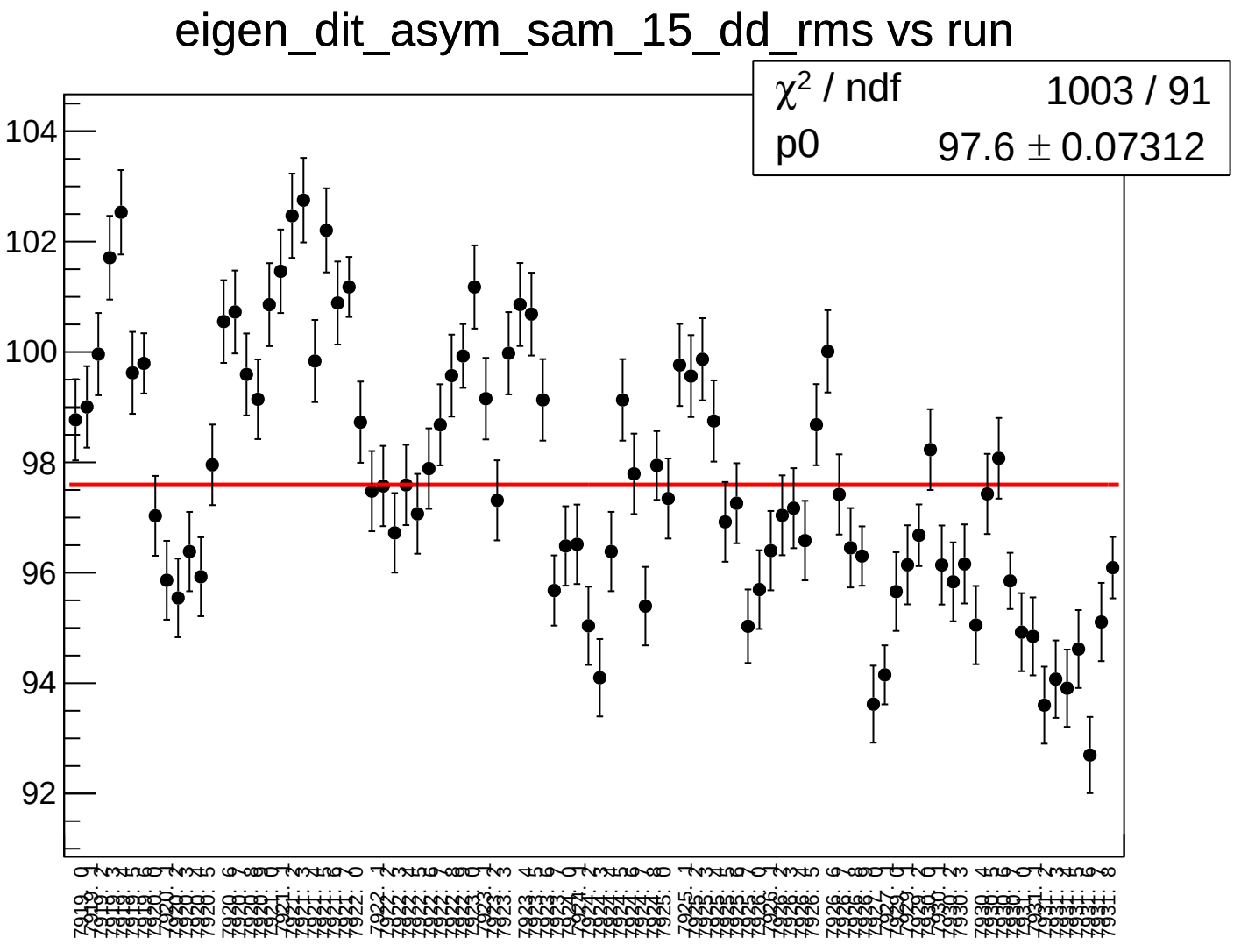

pull1D
Entries 92
Mean −0.0009165
Std Dev 0.9597

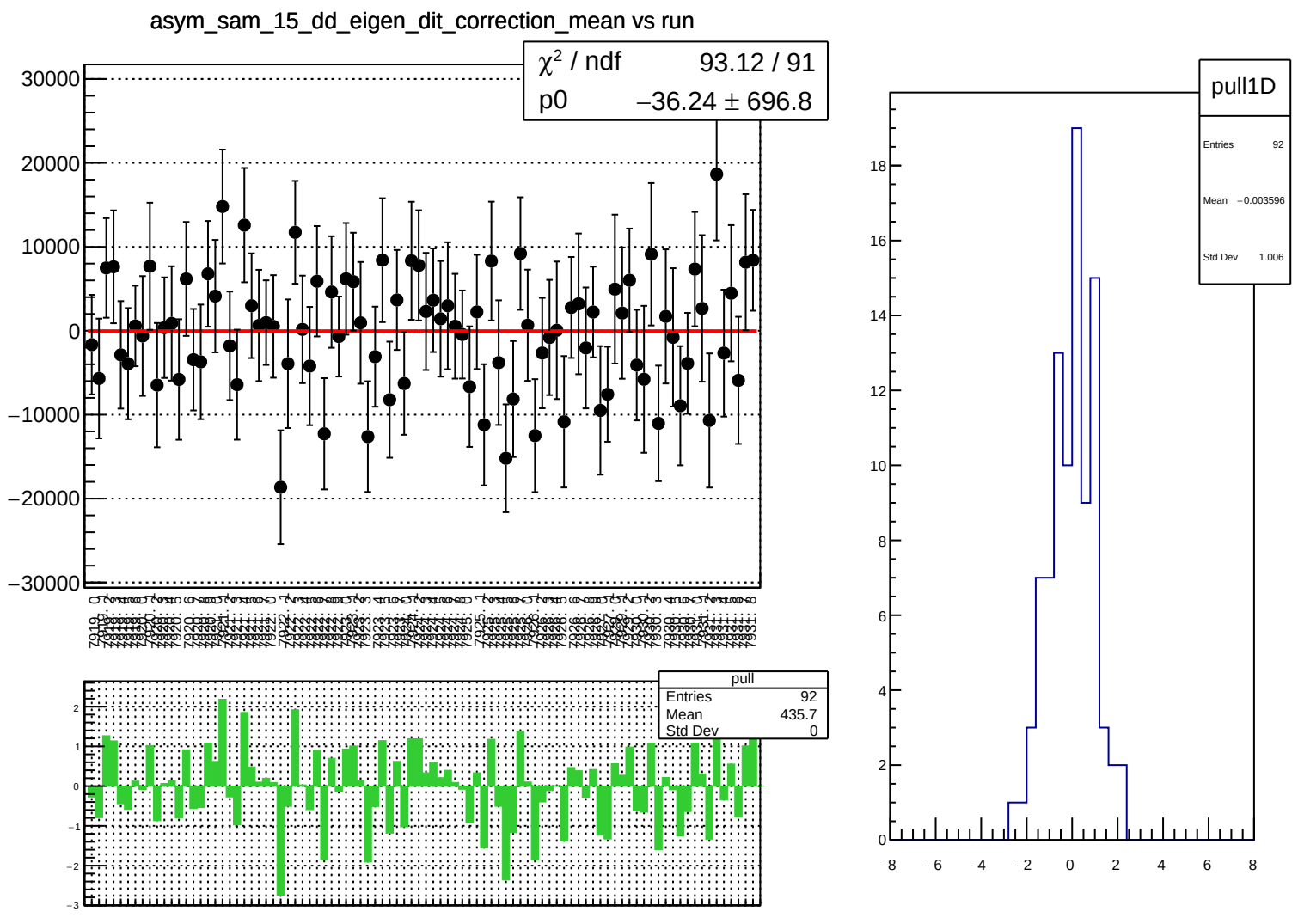

dit_asym_sam_15_dd_rms vs run
χ² / ndf 1003 / 91
p0 97.6 ± 0.07312
104
102
100
98
96
94
92

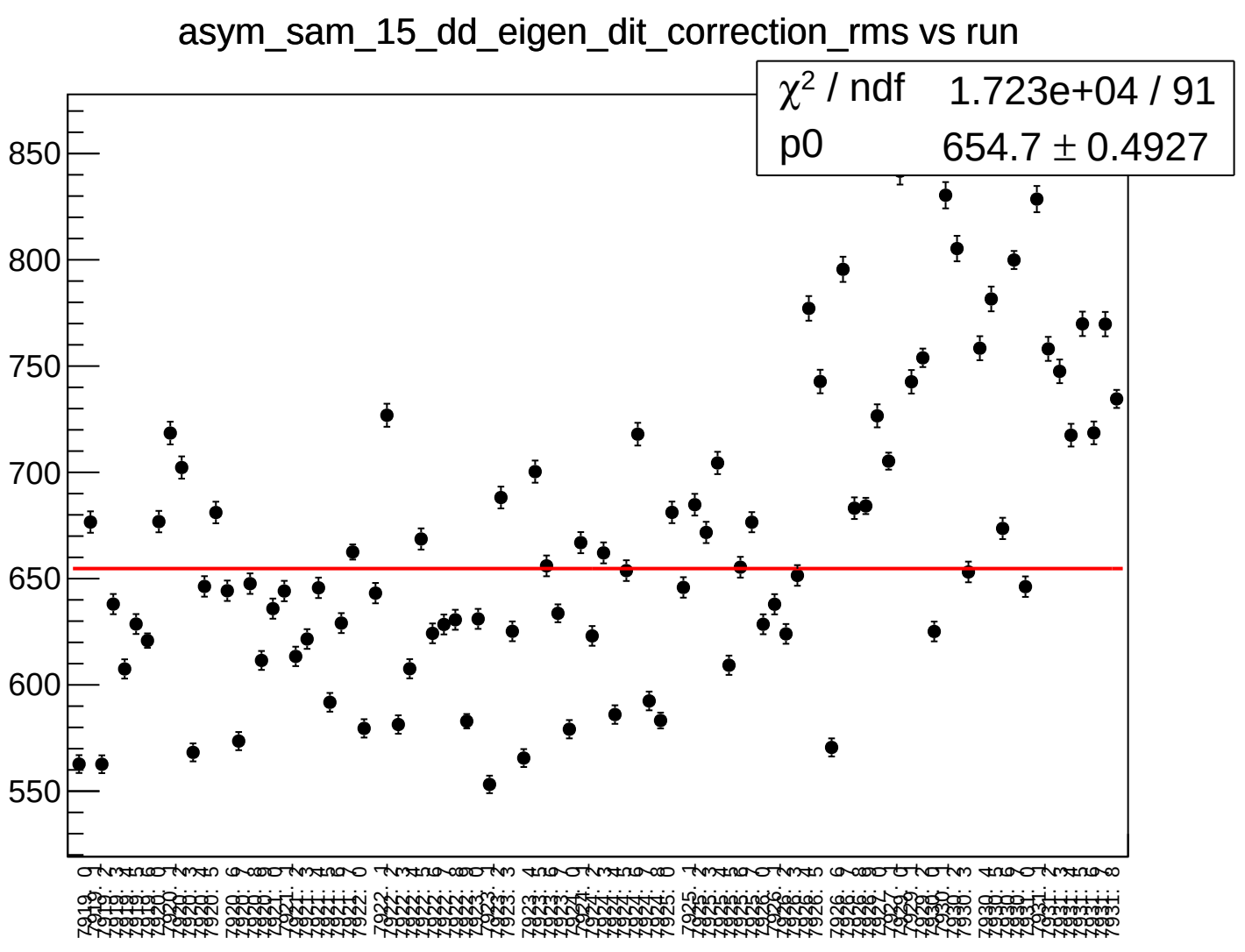

asym_sam_15_dd_dit_correction_mean vs run
χ² / ndf 93.12 / 91
p0 −36.24 ± 696.8
pull
Entries 92
Mean 435.7
Std Dev 0
pull1D
Entries 92
Mean −0.003596
Std Dev 1.006

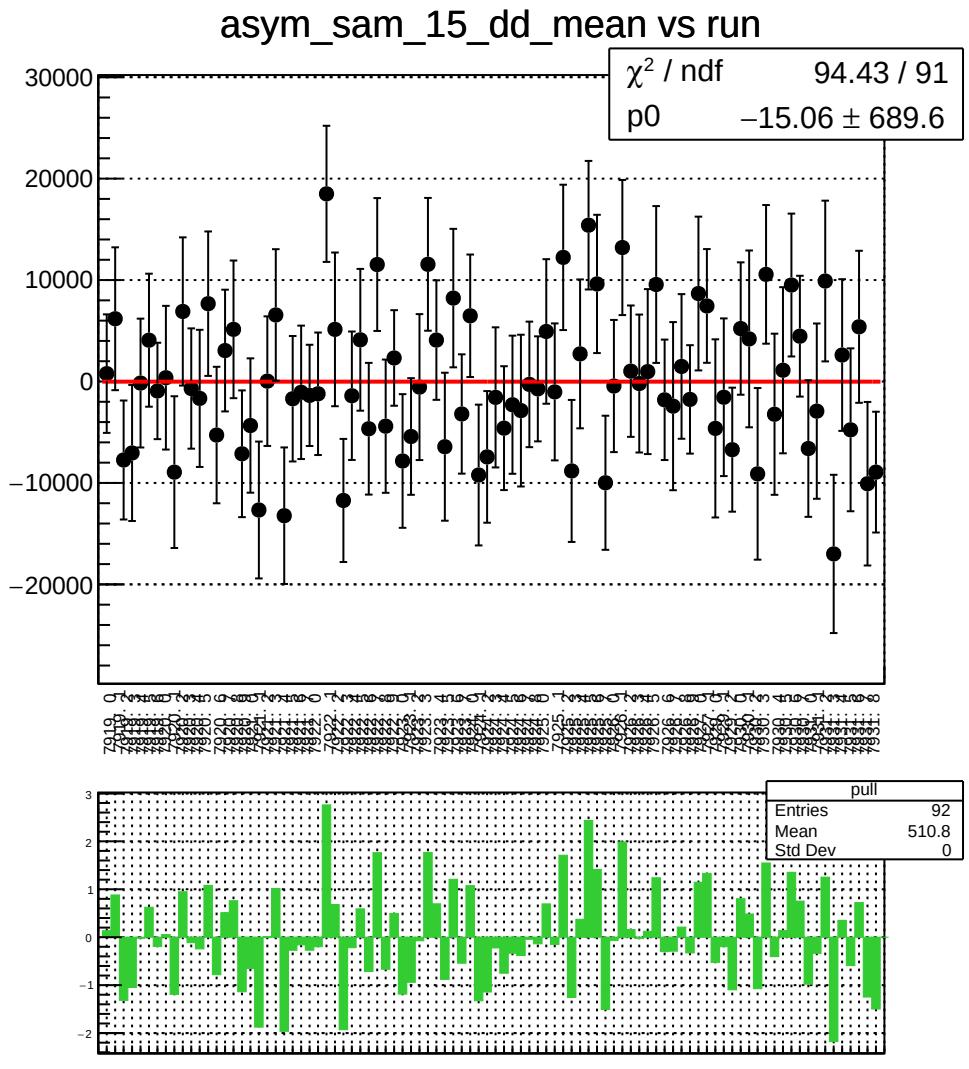

asym_sam_15_dd_dit_correction_rms vs run
χ² / ndf 1.723e+04 / 91
p0 654.7 ± 0.4927
850
800
750
700
650
600
550

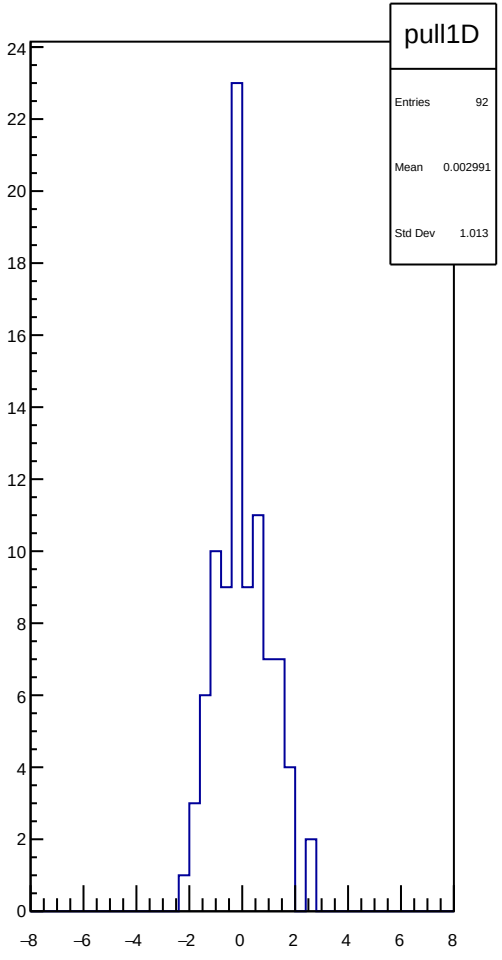

eigen_dit_asym_sam_15_dd_mean vs run
χ² / ndf 84.74 / 91
p0 −58.27 ± 103.4
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 92
Mean 818
Std Dev 0
pull1D
Entries 92
Mean −0.0009165
Std Dev 0.9597
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

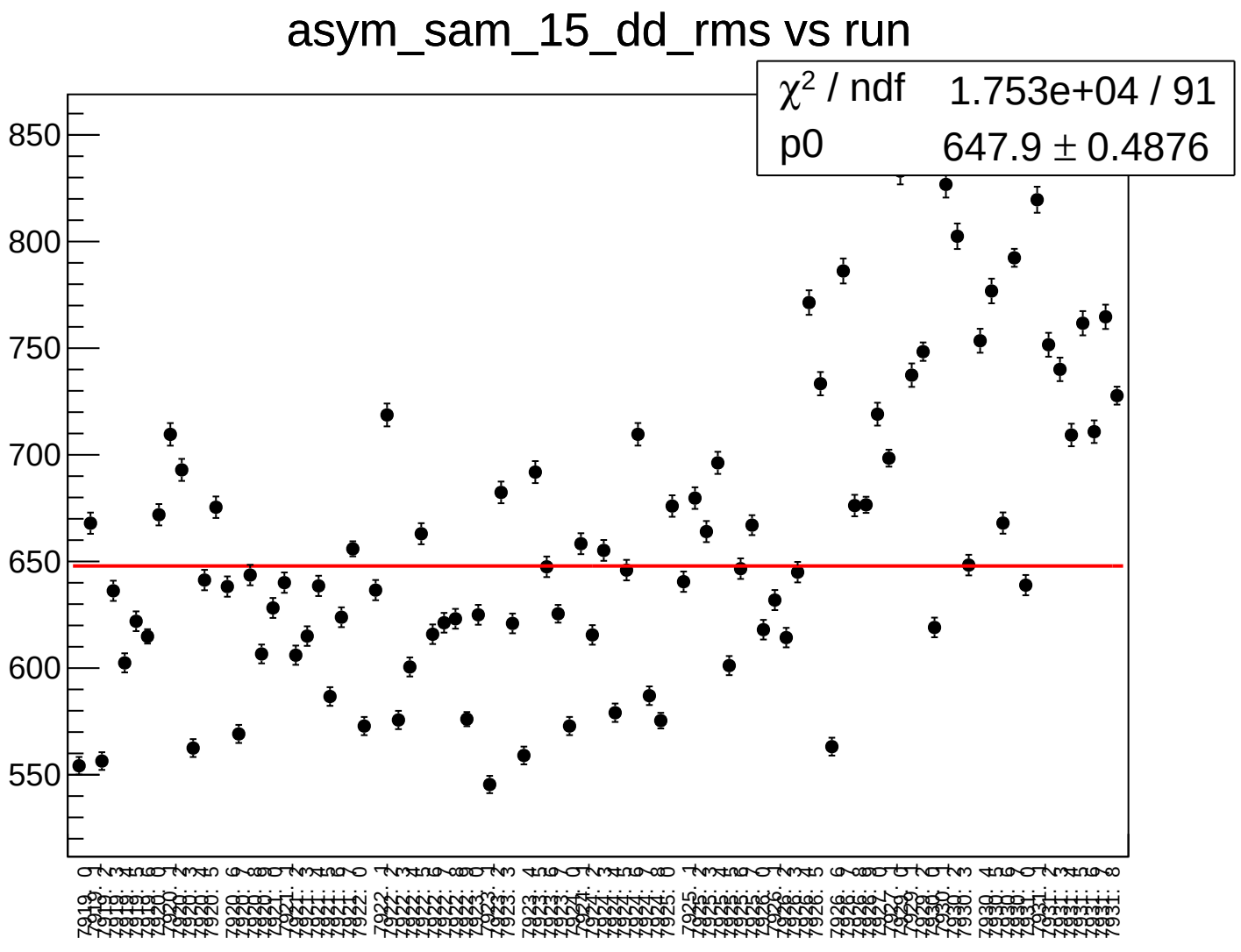

eigen_dit_asym_sam_15_dd_rms vs run
χ^2 / ndf 1003 / 91
p0 97.6 ± 0.07312
104
102
100
98
96
94
92

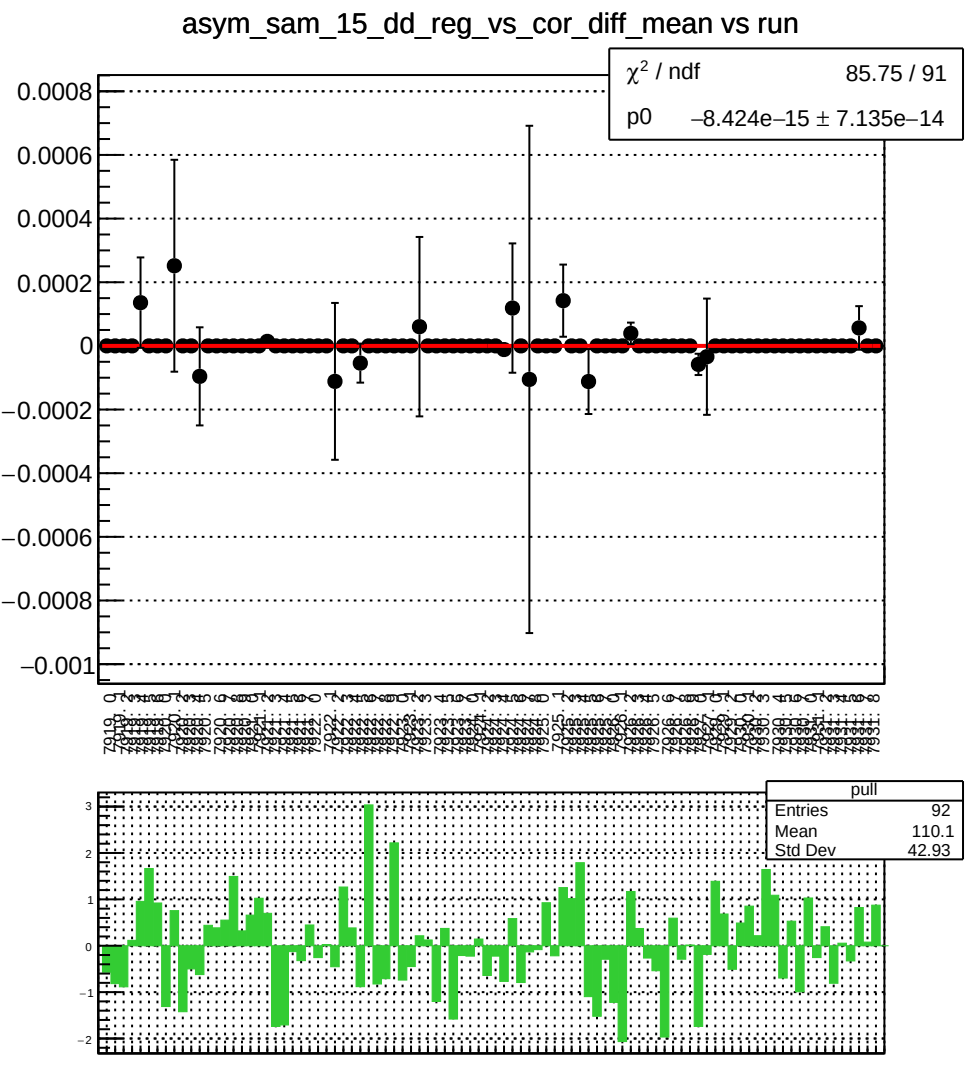

asym_sam_15_dd_eigen_dit_correction_mean vs run
χ² / ndf 93.12 / 91
p0 −36.24 ± 696.8
pull
Entries 92
Mean 435.7
Std Dev 0
pull1D
Entries 92
Mean −0.003596
Std Dev 1.006

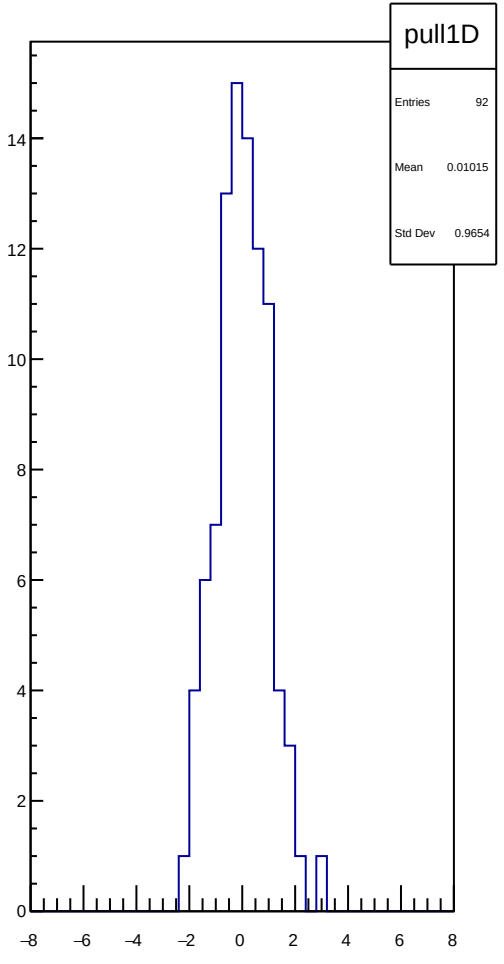

asym_sam_15_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.723e+04 / 91
p0 654.7 ± 0.4927
850
800
750
700
650
600
550

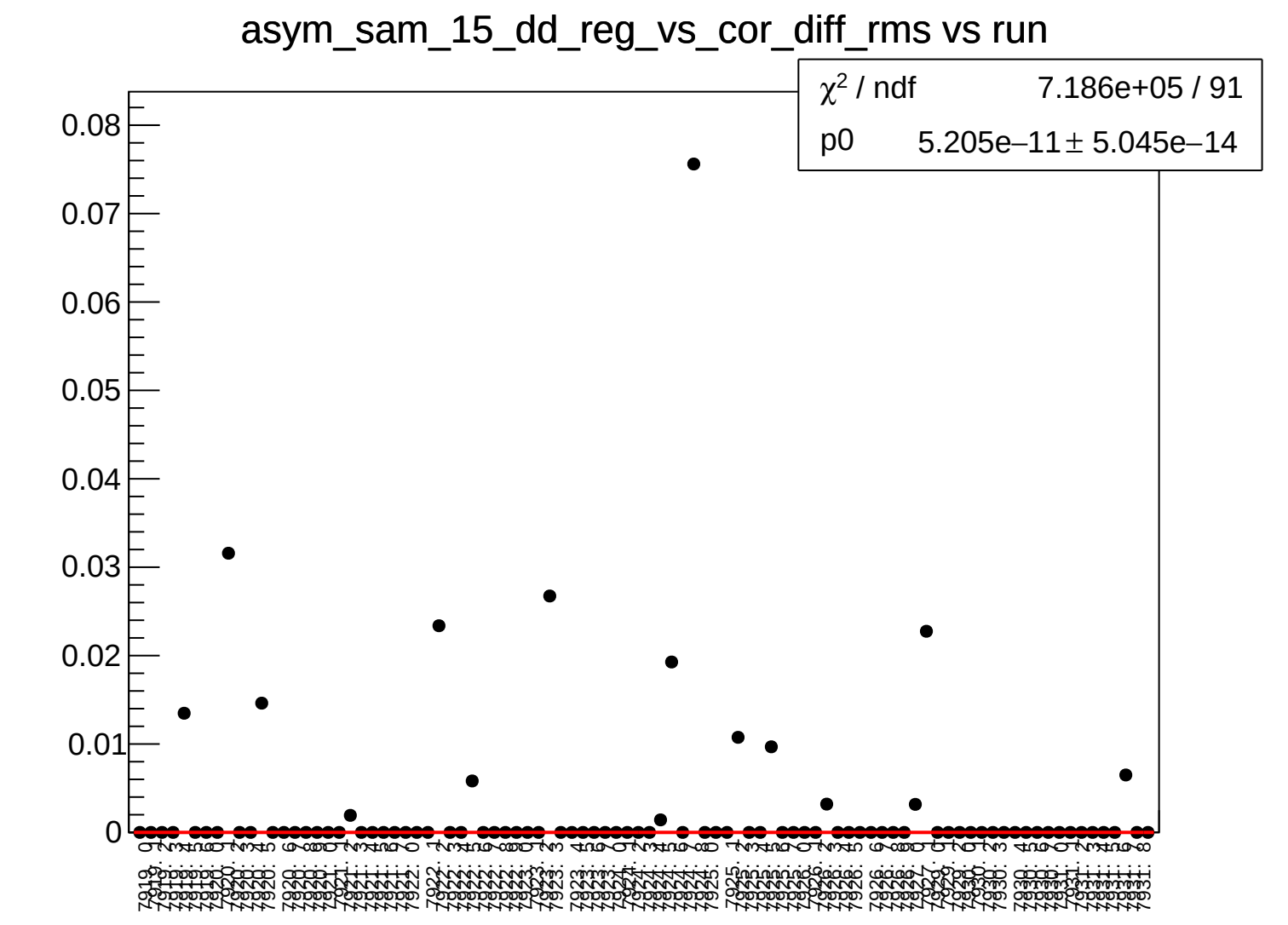

asym_sam_15_dd_mean vs run
χ² / ndf 94.43 / 91
p0 −15.06 ± 689.6
pull
Entries 92
Mean 510.8
Std Dev 0

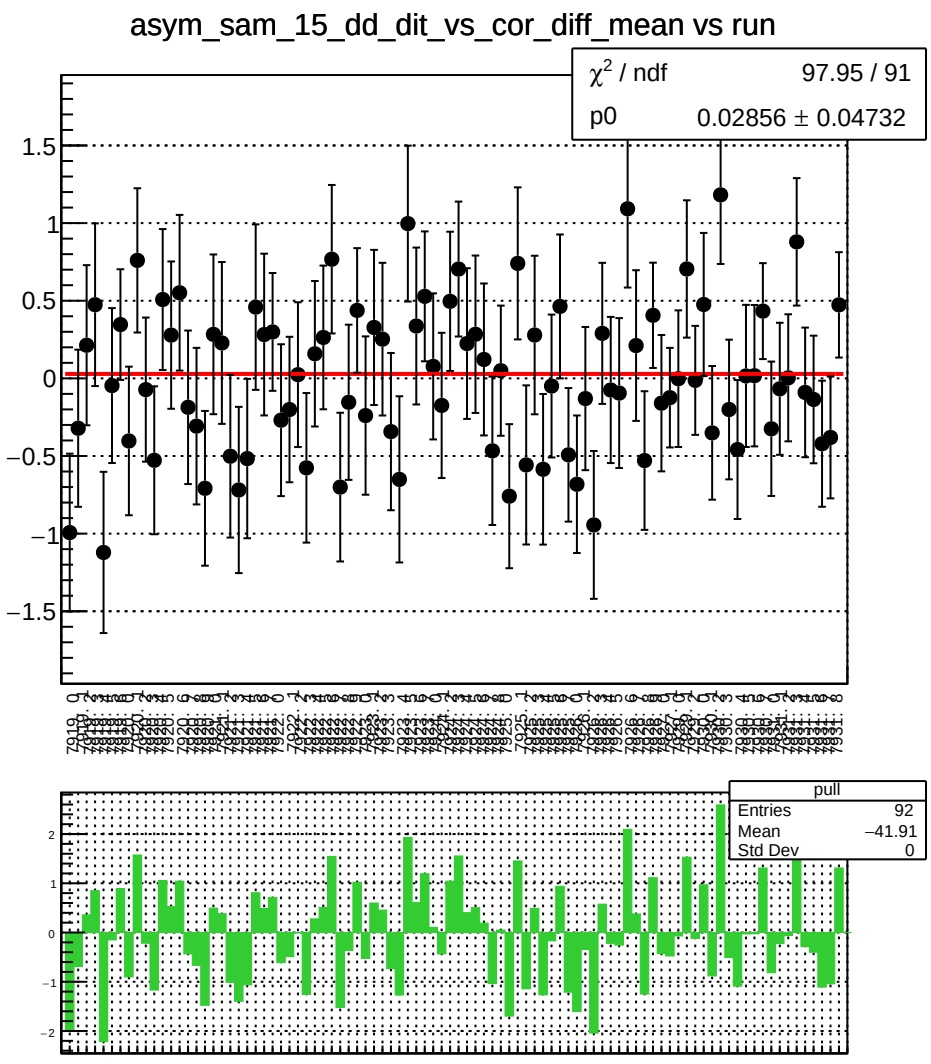

pull1D
Entries 92
Mean 0.002991
Std Dev 1.013

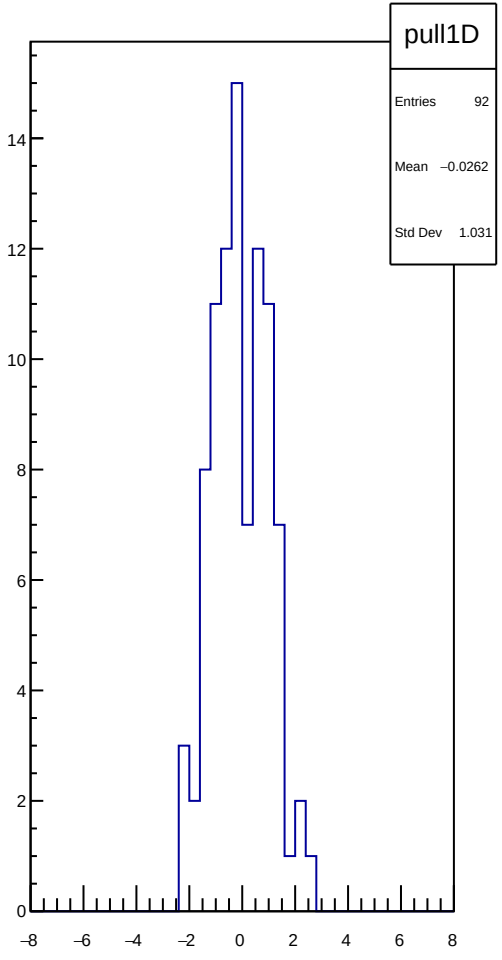

asym_sam_15_dd_rms vs run
χ^2 / ndf 1.753e+04 / 91
p0 647.9 ± 0.4876
850
800
750
700
650
600
550

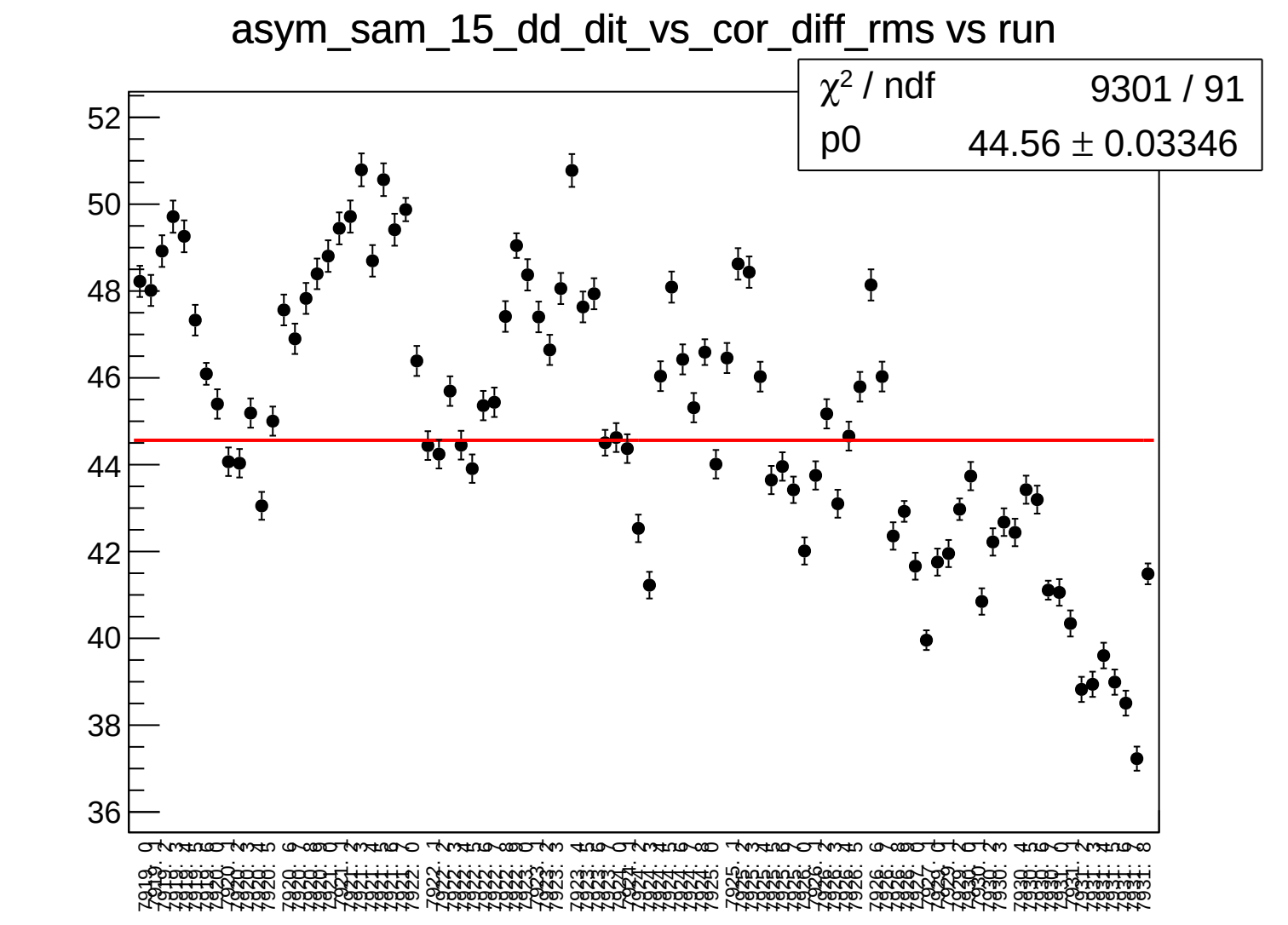

asym_sam_15_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 85.75 / 91
p0 −8.424e−15 ± 7.135e−14
pull
Entries 92
Mean 110.1
Std Dev 42.93

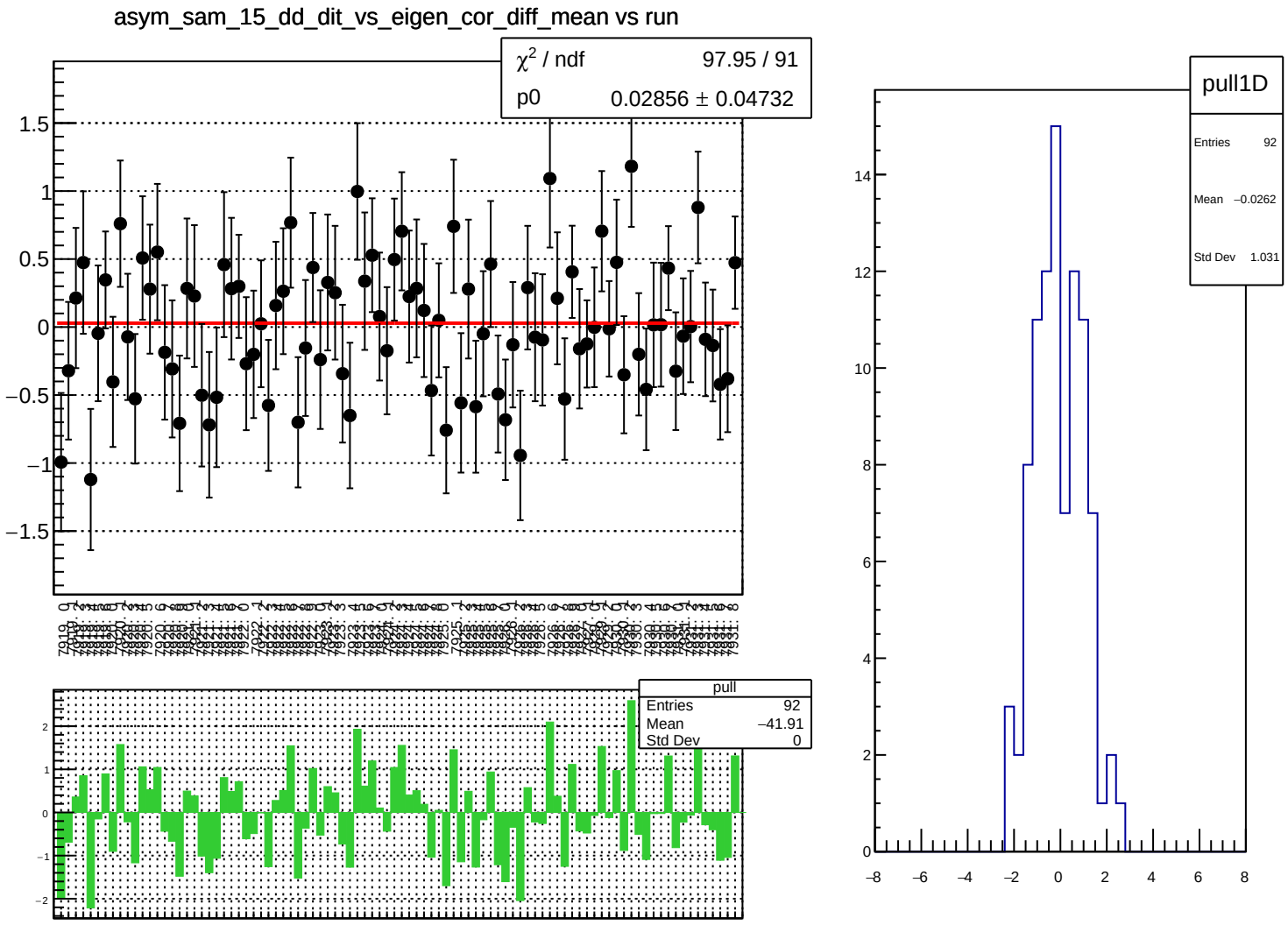

pull1D
Entries 92
Mean 0.01015
Std Dev 0.9654

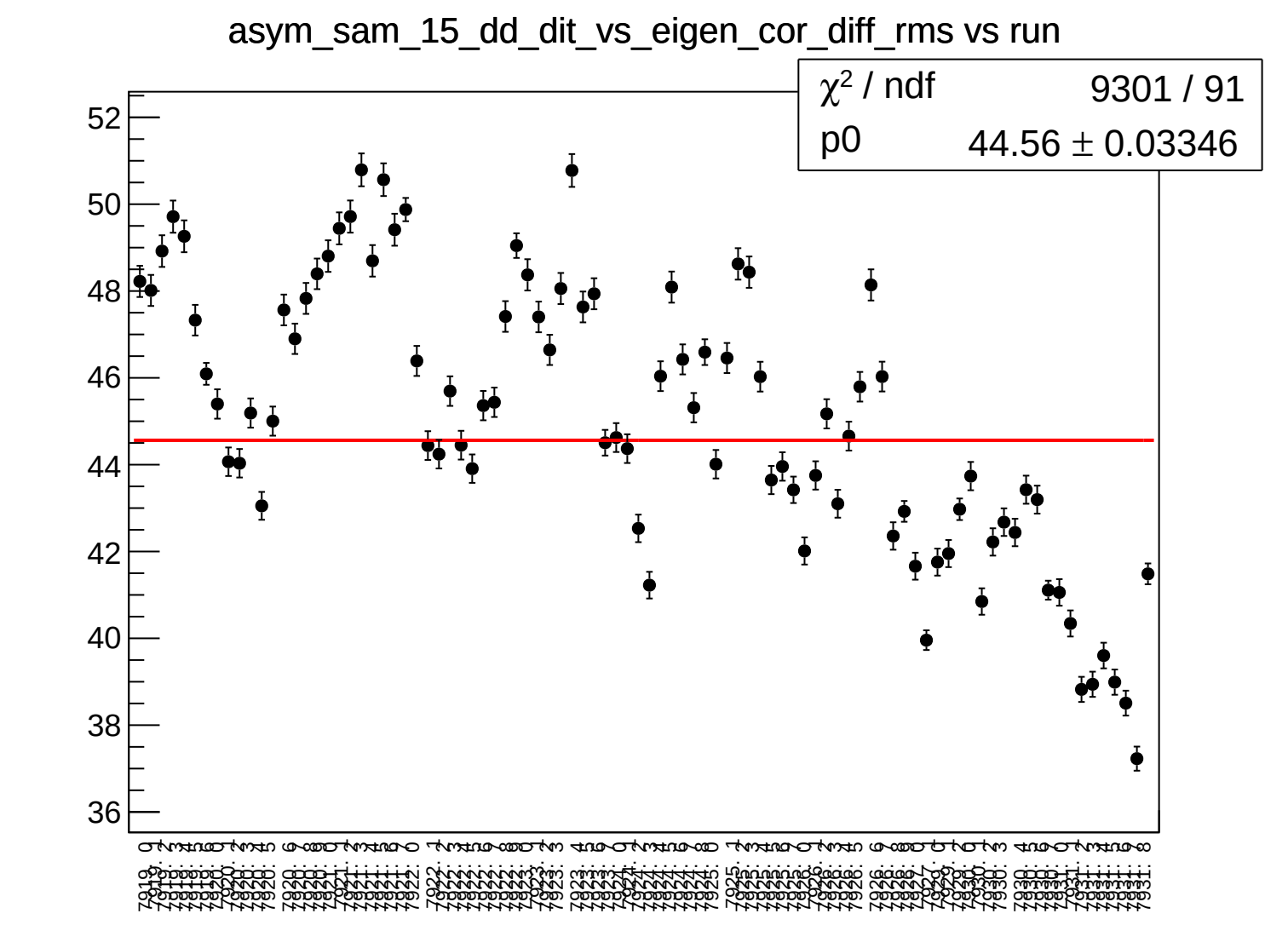

asym_sam_15_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.186e+05 / 91
p0 5.205e−11 ± 5.045e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

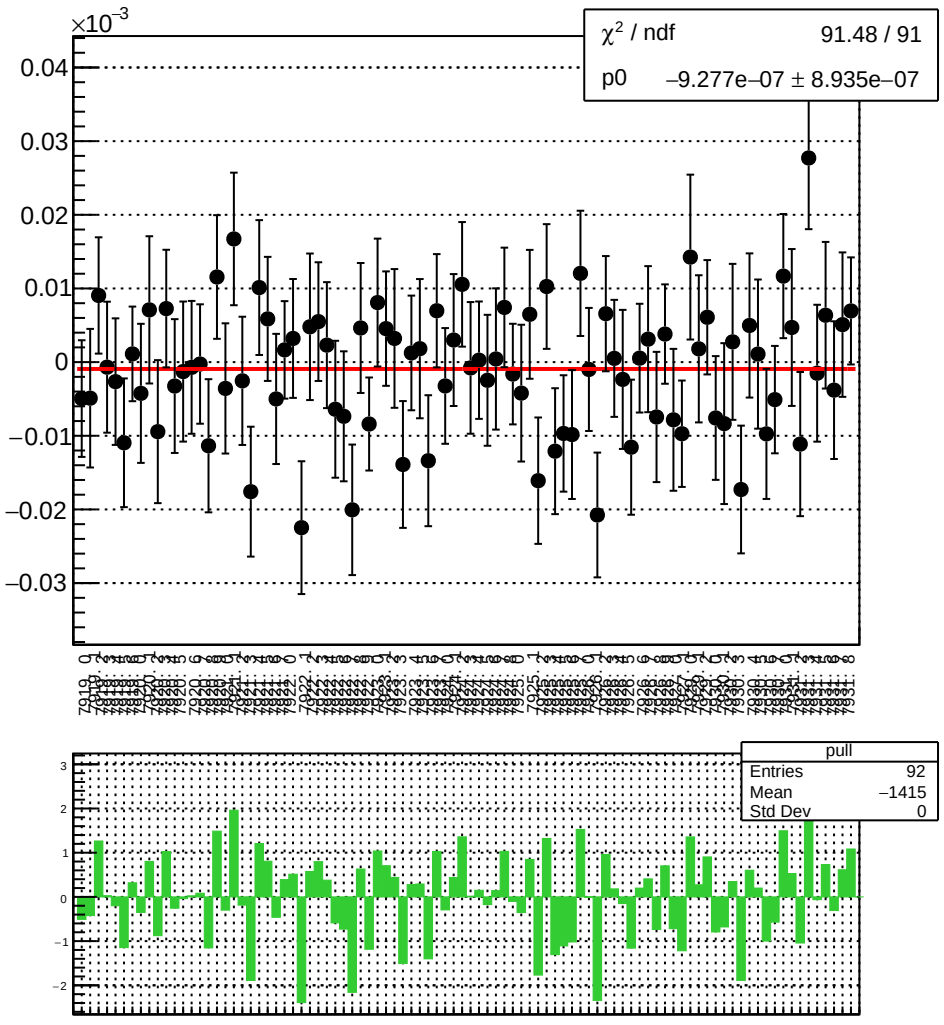

asym_sam_15_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 97.95 / 91
p0 0.02856 ± 0.04732
pull
Entries 92
Mean −41.91
Std Dev 0

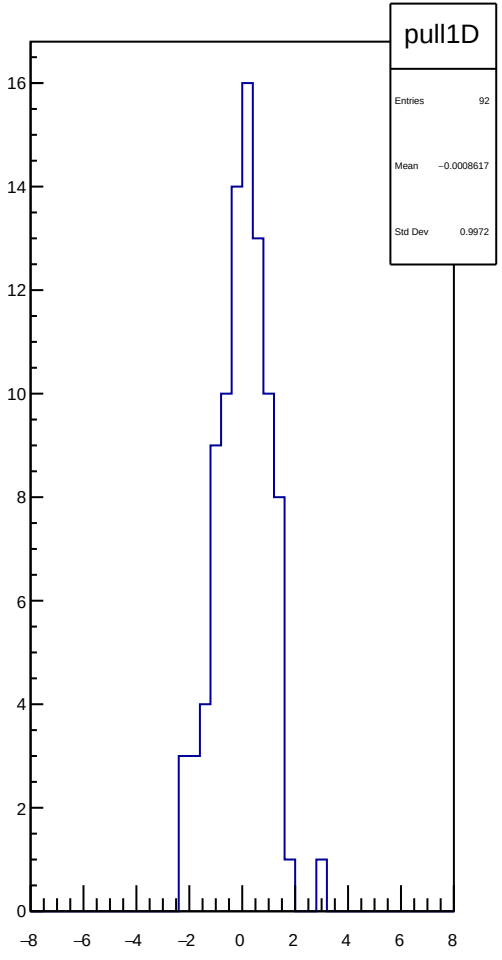

pull1D
Entries 92
Mean −0.0262
Std Dev 1.031

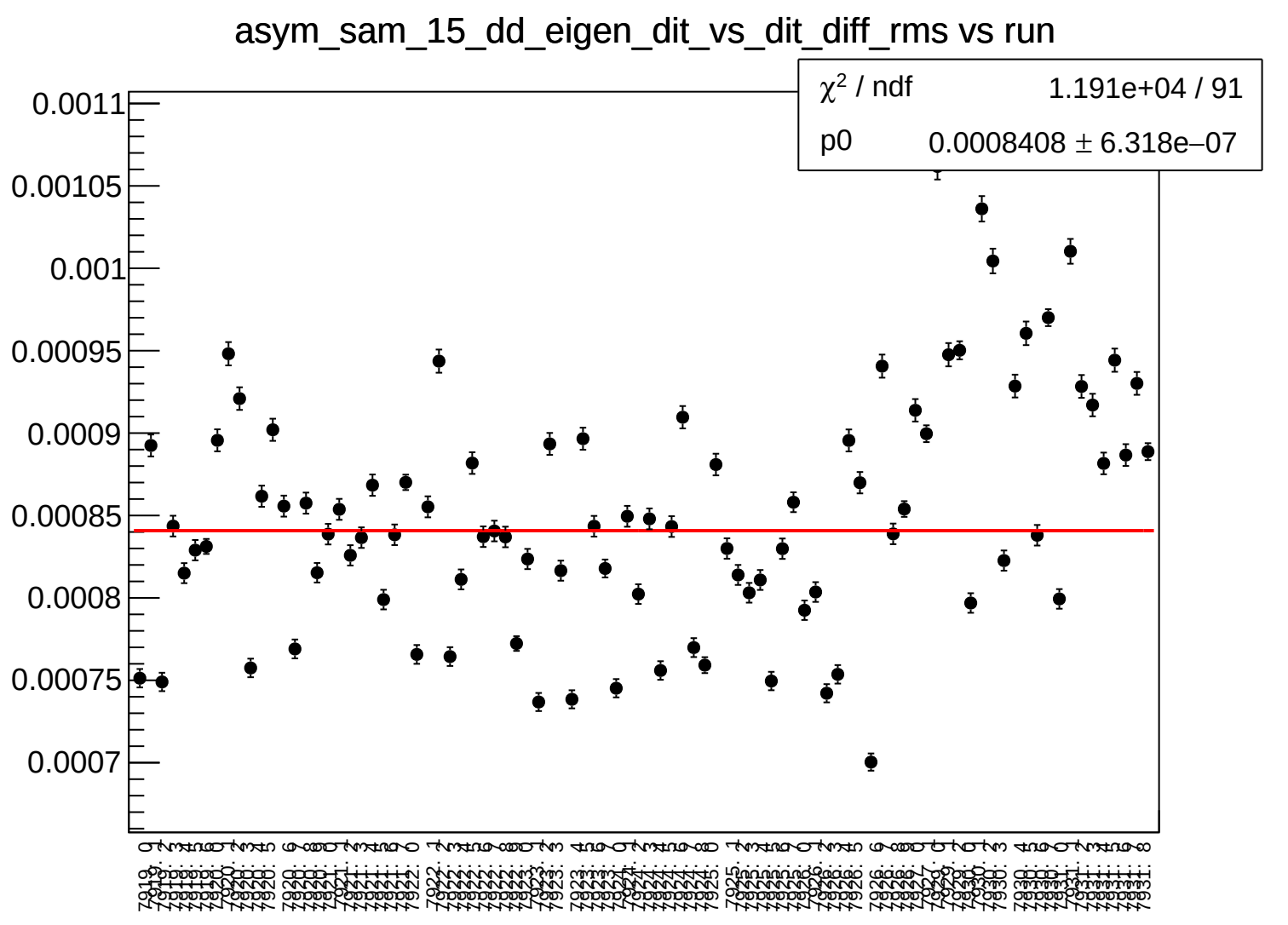

asym_sam_15_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 9301 / 91
p0 44.56 ± 0.03346
52
50
48
46
44
42
40
38
36

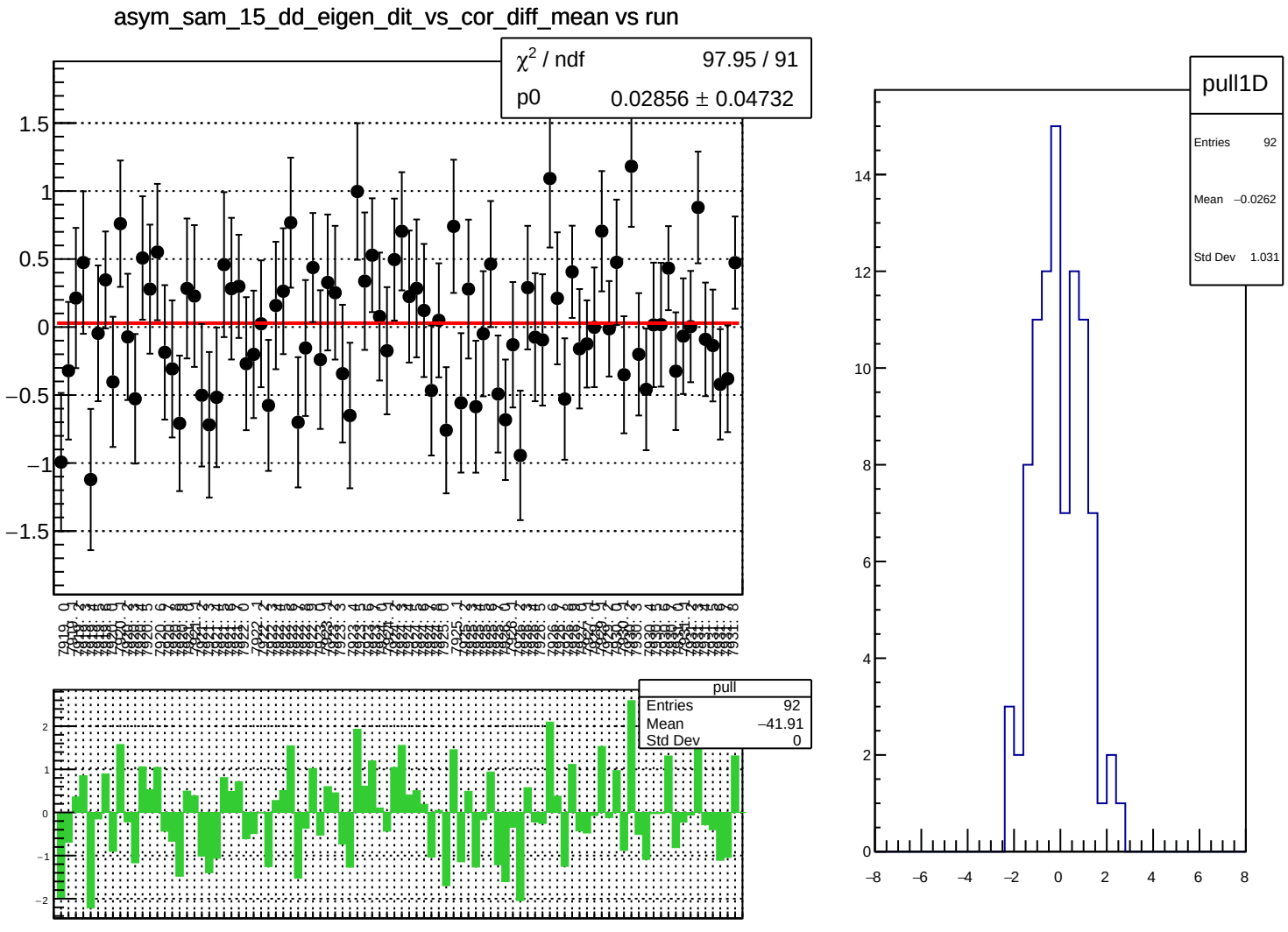

asym_sam_15_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.95 / 91
p0 0.02856 ± 0.04732
pull
Entries 92
Mean −41.91
Std Dev 0
pull1D
Entries 92
Mean −0.0262
Std Dev 1.031

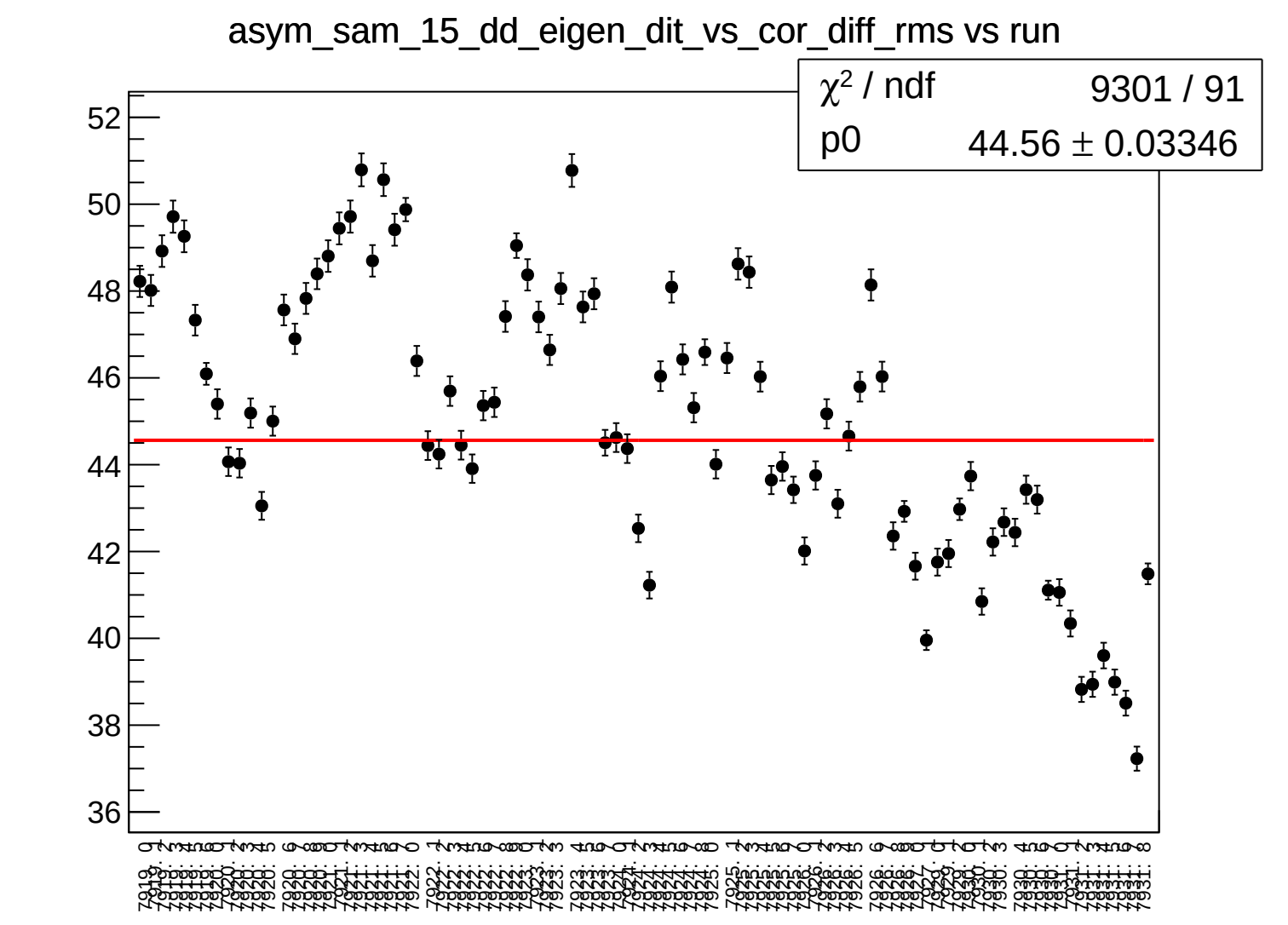

asym_sam_15_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9301 / 91
p0 44.56 ± 0.03346
52
50
48
46
44
42
40
38
36

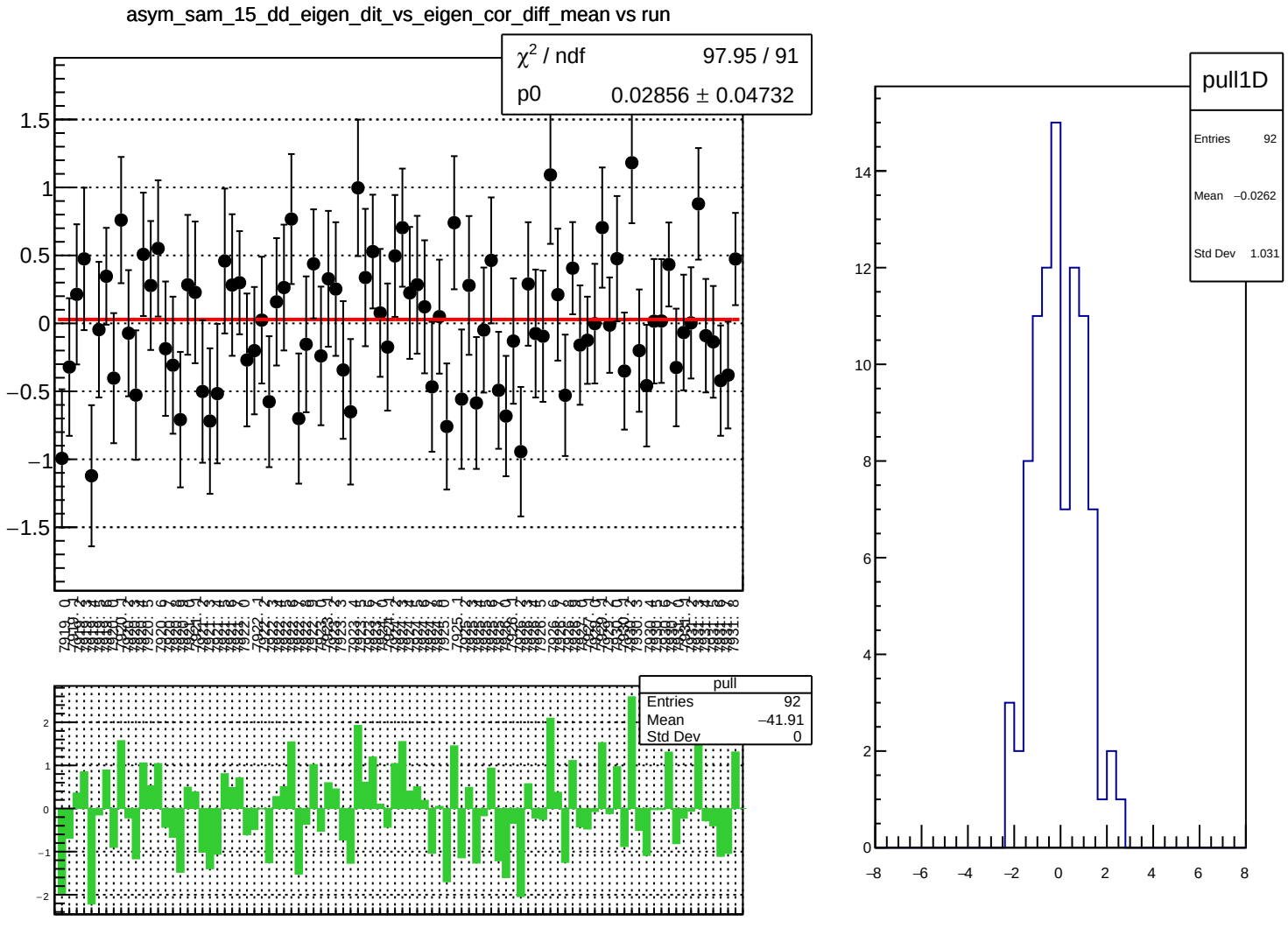

asym_sam_15_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.48 / 91
p0 −9.277e−07 ± 8.935e−07
pull
Entries 92
Mean −1415
Std Dev 0

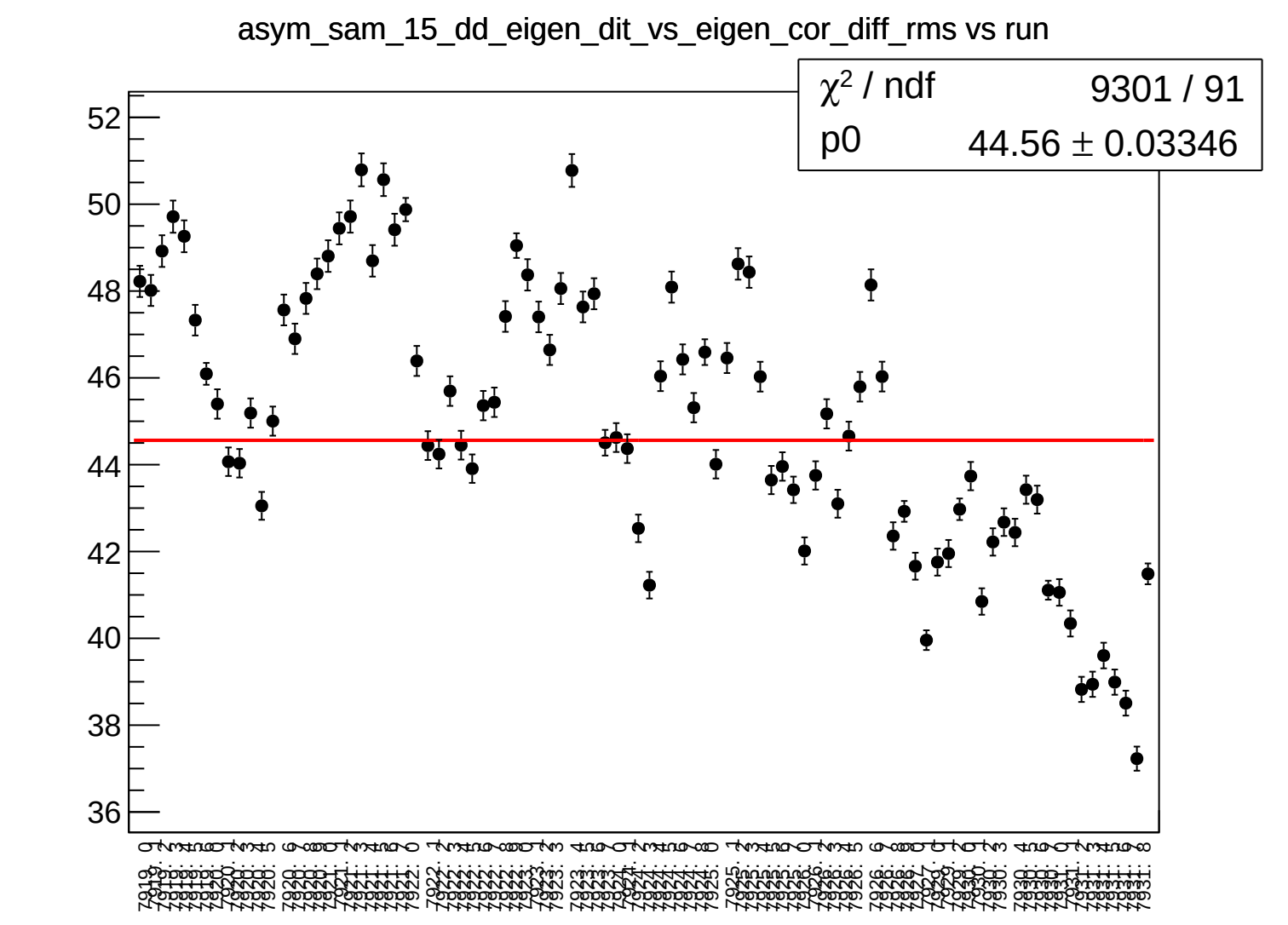

pull1D
Entries 92
Mean −0.0008617
Std Dev 0.9972

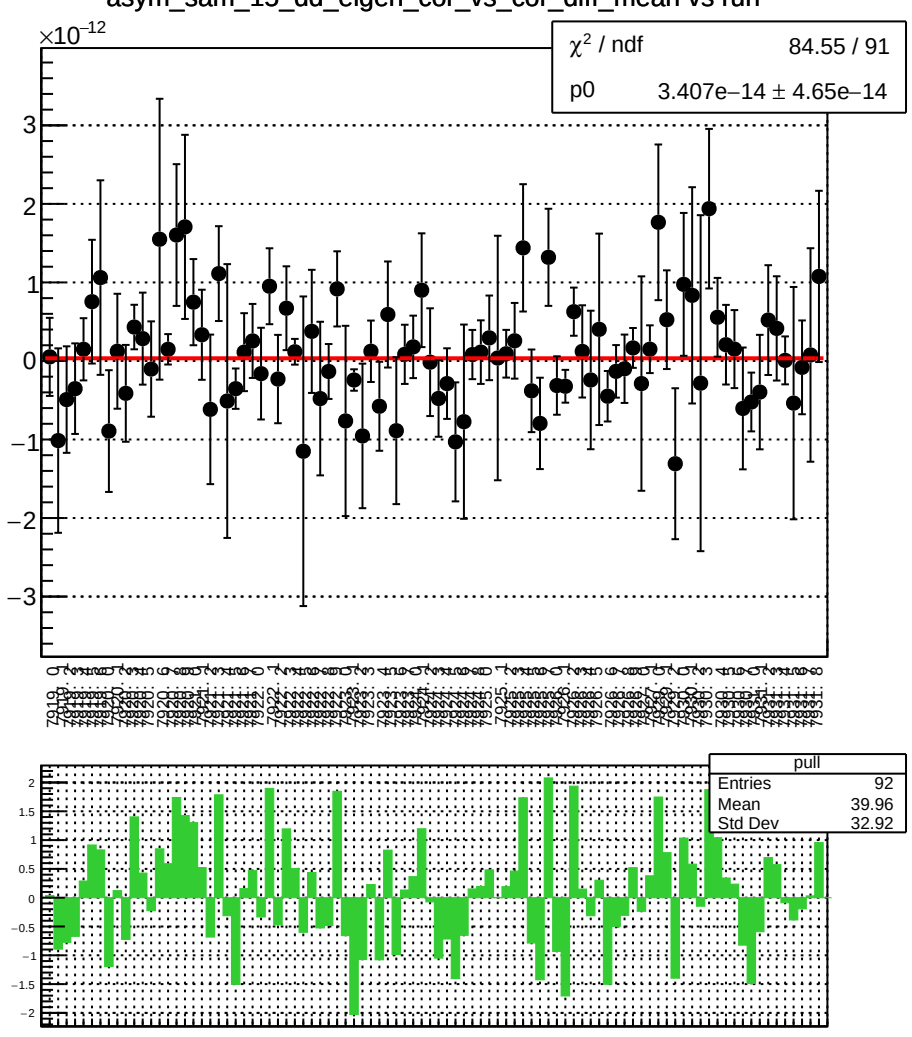

asym_sam_15_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.191e+04 / 91
p0 0.0008408 ± 6.318e−07
0.0011
0.00105
0.001
0.00095
0.0009
0.00085
0.0008
0.00075
0.0007

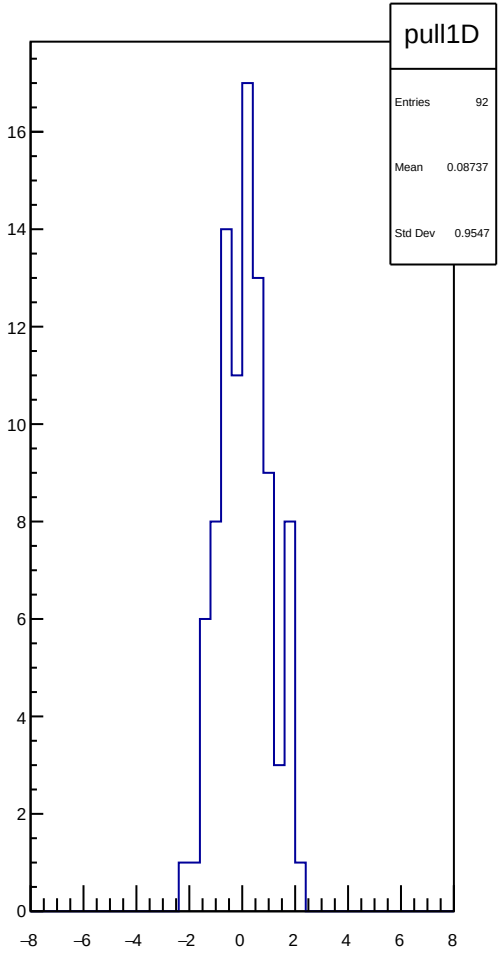

asym_sam_15_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 97.95 / 91
p0 0.02856 ± 0.04732
pull
Entries 92
Mean −41.91
Std Dev 0
pull1D
Entries 92
Mean −0.0262
Std Dev 1.031

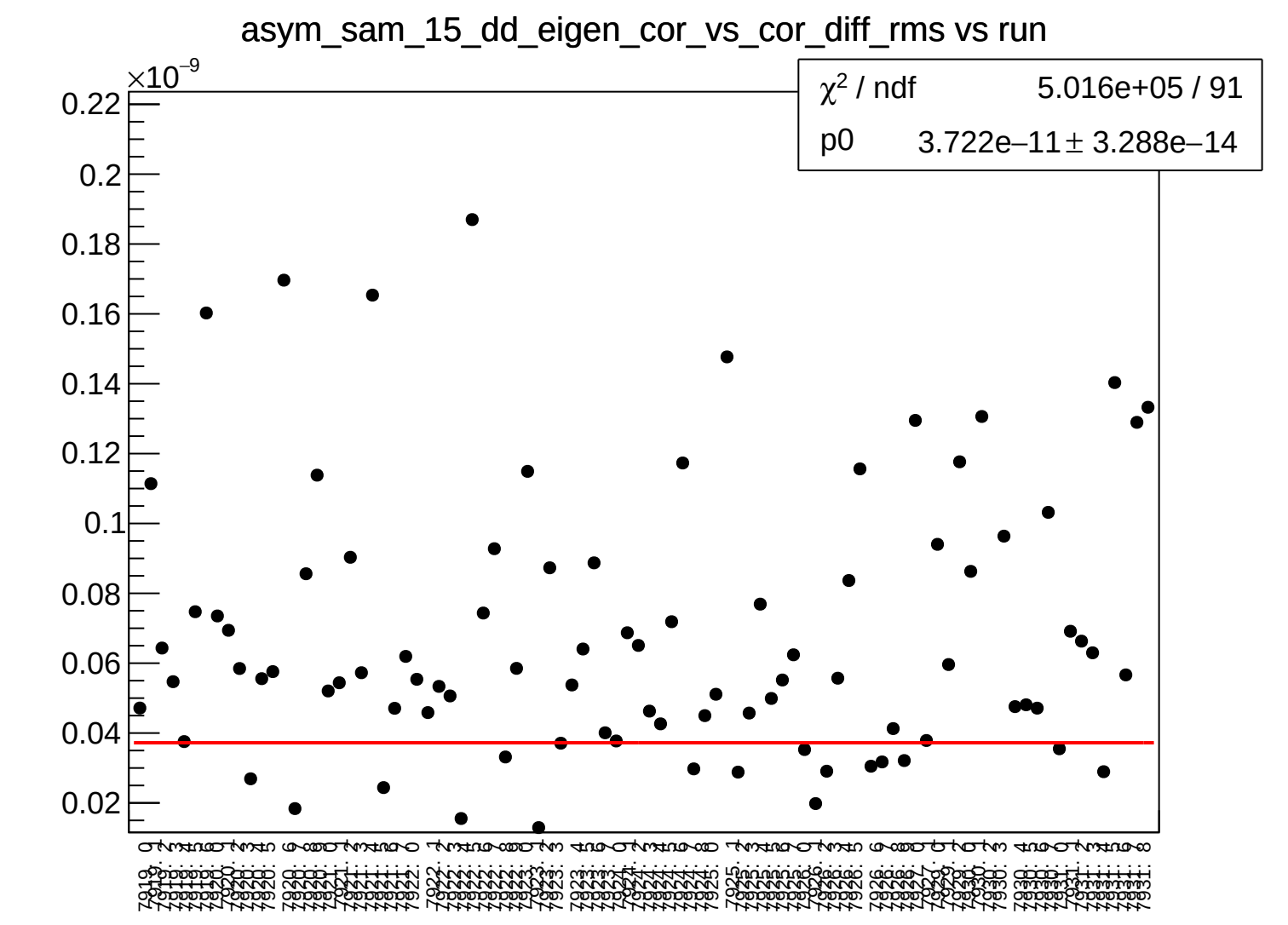

asym_sam_15_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9301 / 91
p0 44.56 ± 0.03346
52
50
48
46
44
42
40
38
36

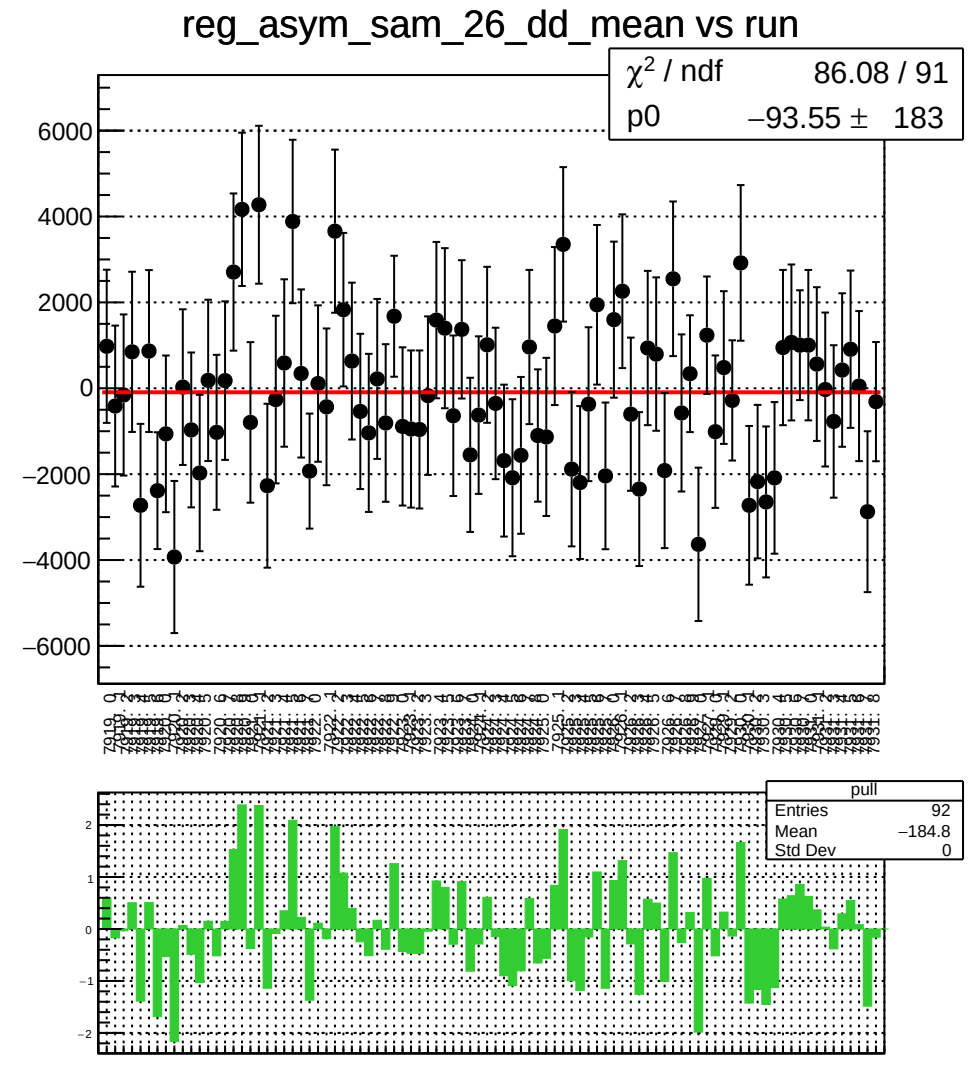

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.95 / 91
p0 0.02856 ± 0.04732
pull
Entries 92
Mean −41.91
Std Dev 0
pull1D
Entries 92
Mean −0.0262
Std Dev 1.031

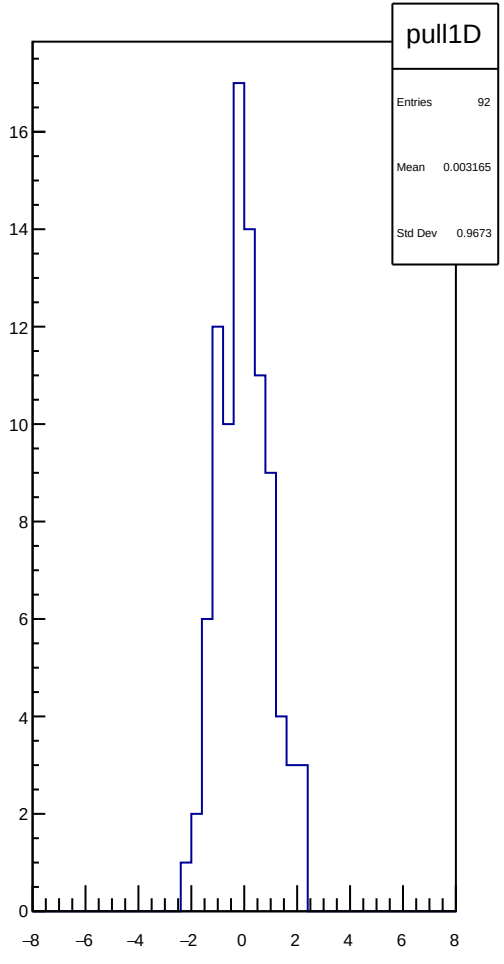

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9301 / 91
p0 44.56 ± 0.03346
52
50
48
46
44
42
40
38
36

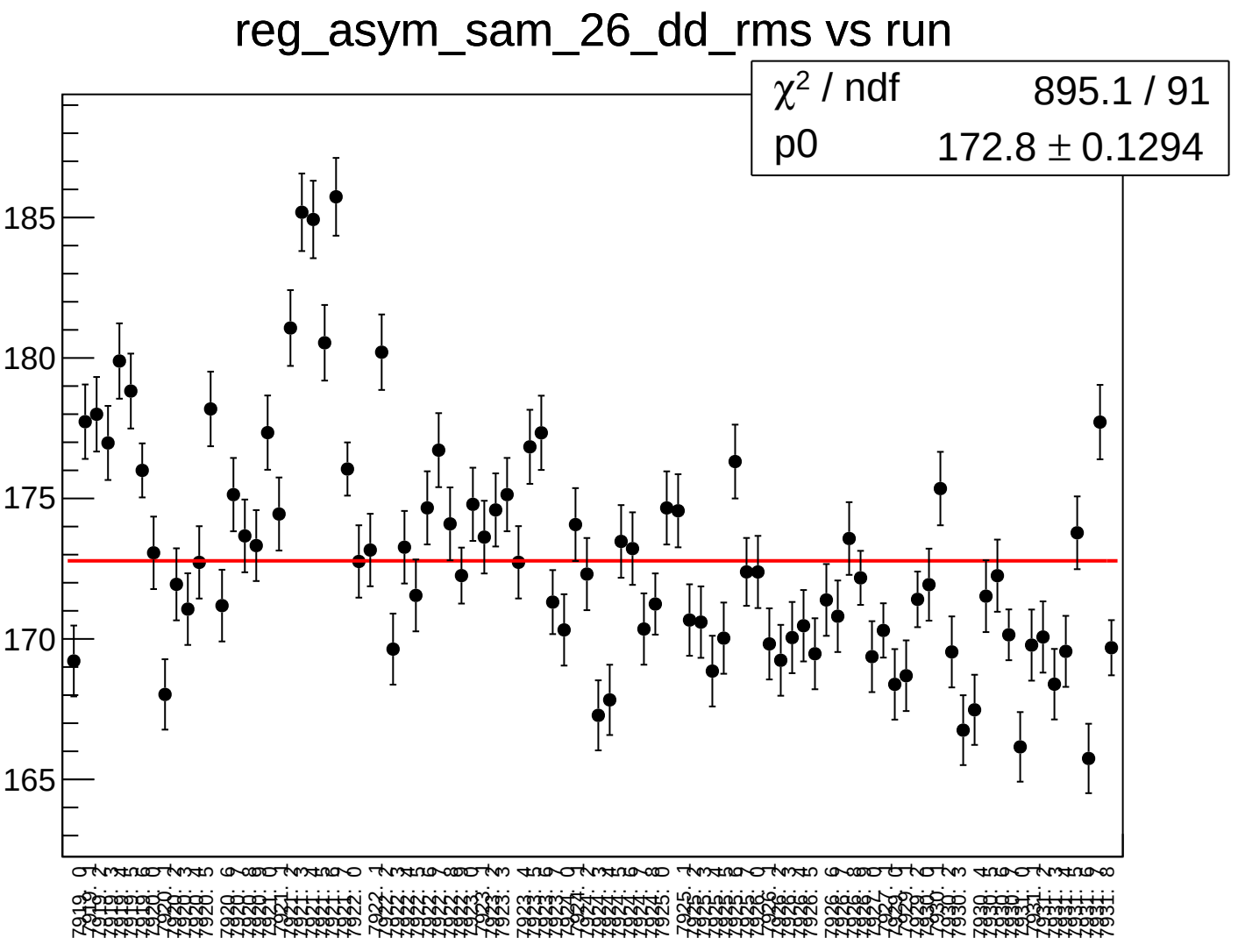

asym_sam_15_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.55 / 91
p0 3.407e−14 ± 4.65e−14
pull
Entries 92
Mean 39.96
Std Dev 32.92

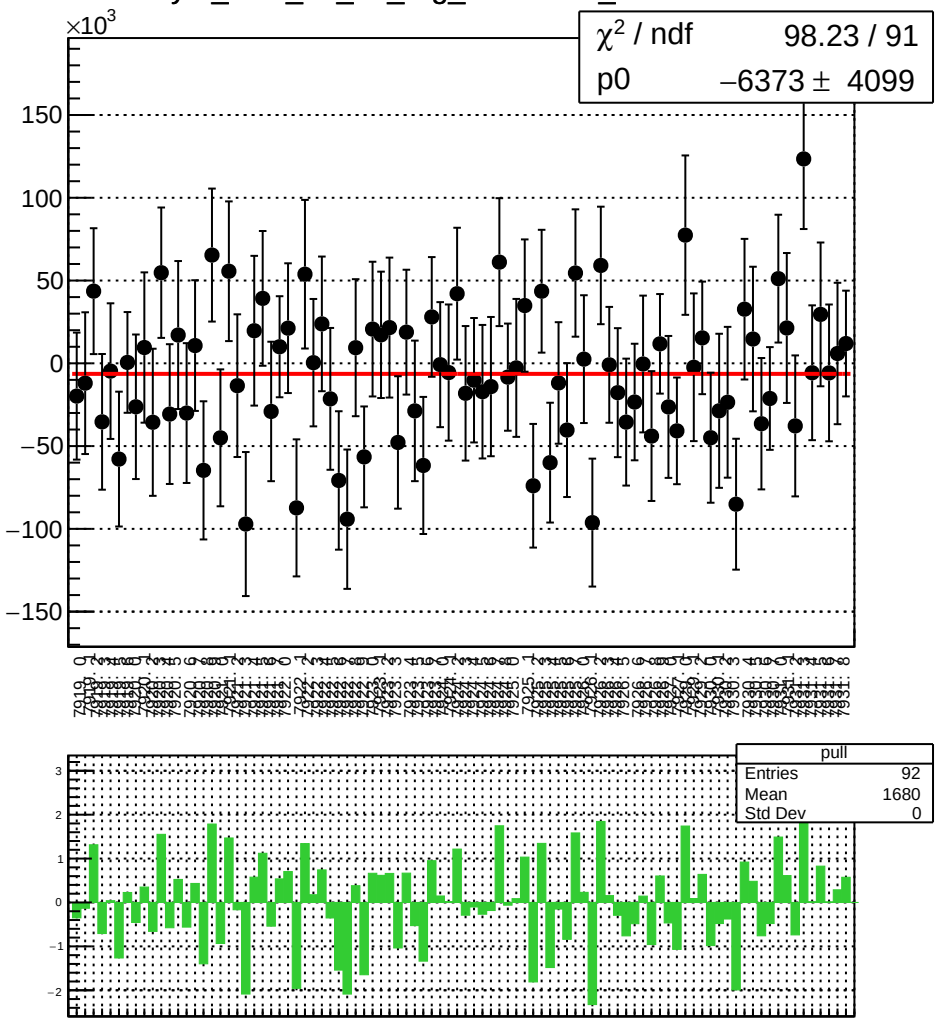

pull1D
Entries 92
Mean 0.08737
Std Dev 0.9547

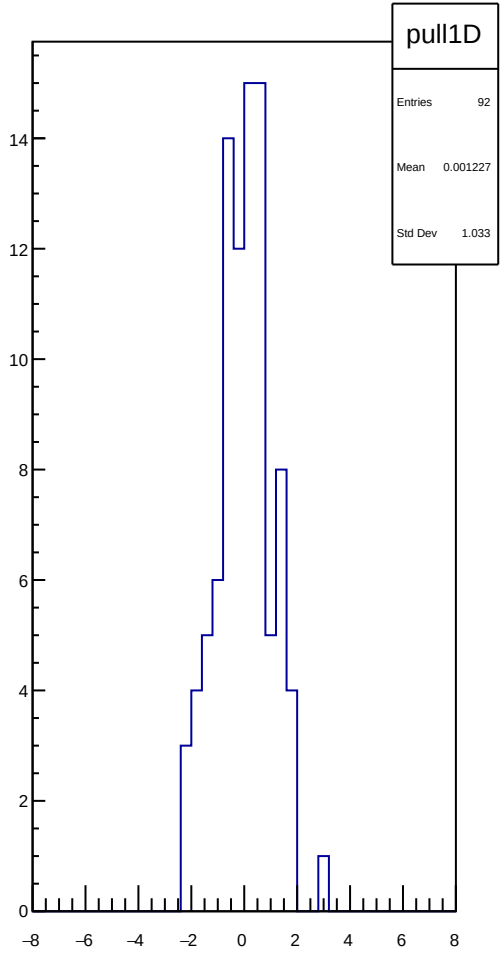

asym_sam_15_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.016e+05 / 91
p0 3.722e−11 ± 3.288e−14
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

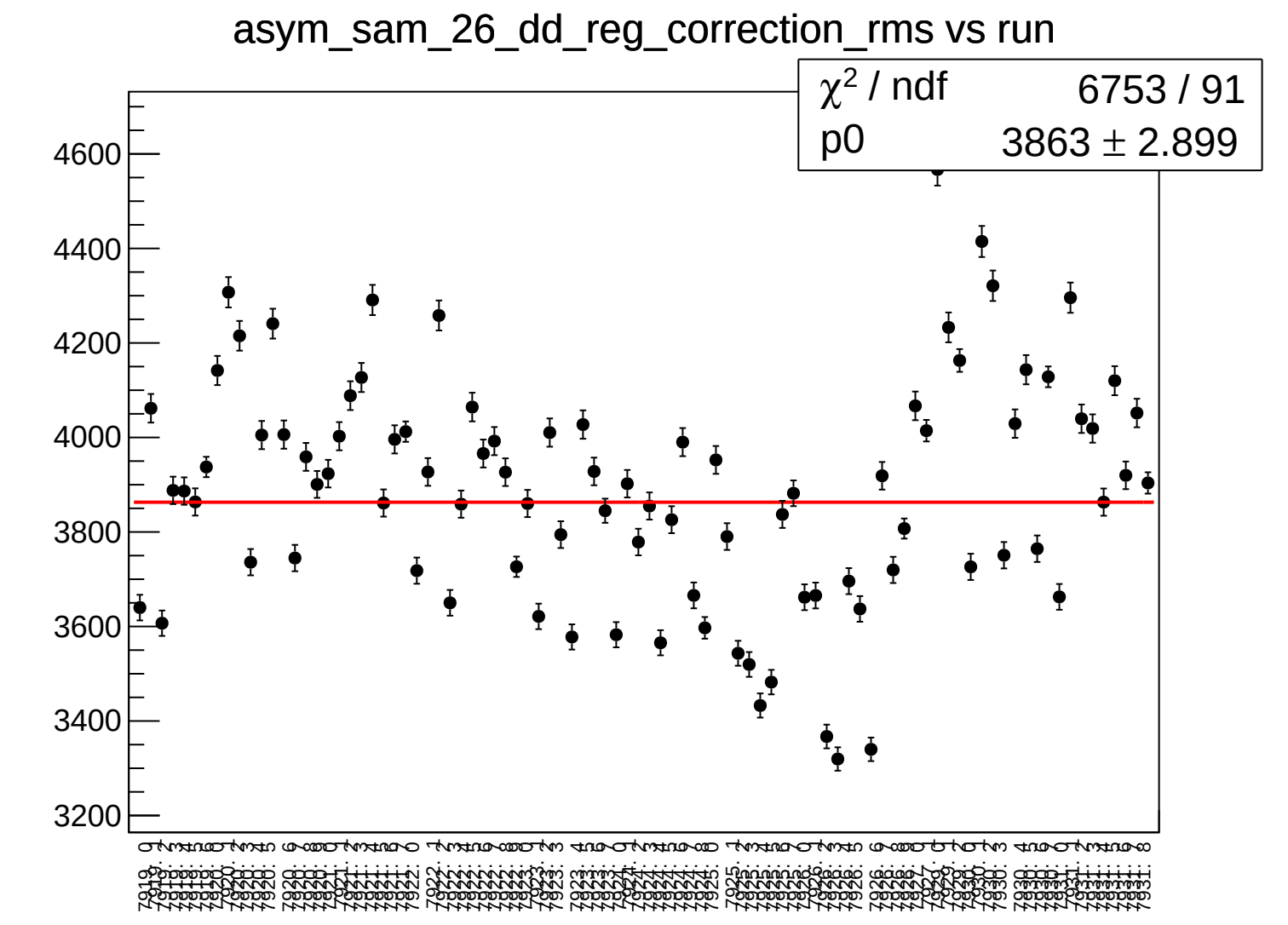

reg_asym_sam_26_dd_mean vs run
χ² / ndf 86.08 / 91
p0 −93.55 ± 183
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 92
Mean −184.8
Std Dev 0
2
1
0
−1
−2

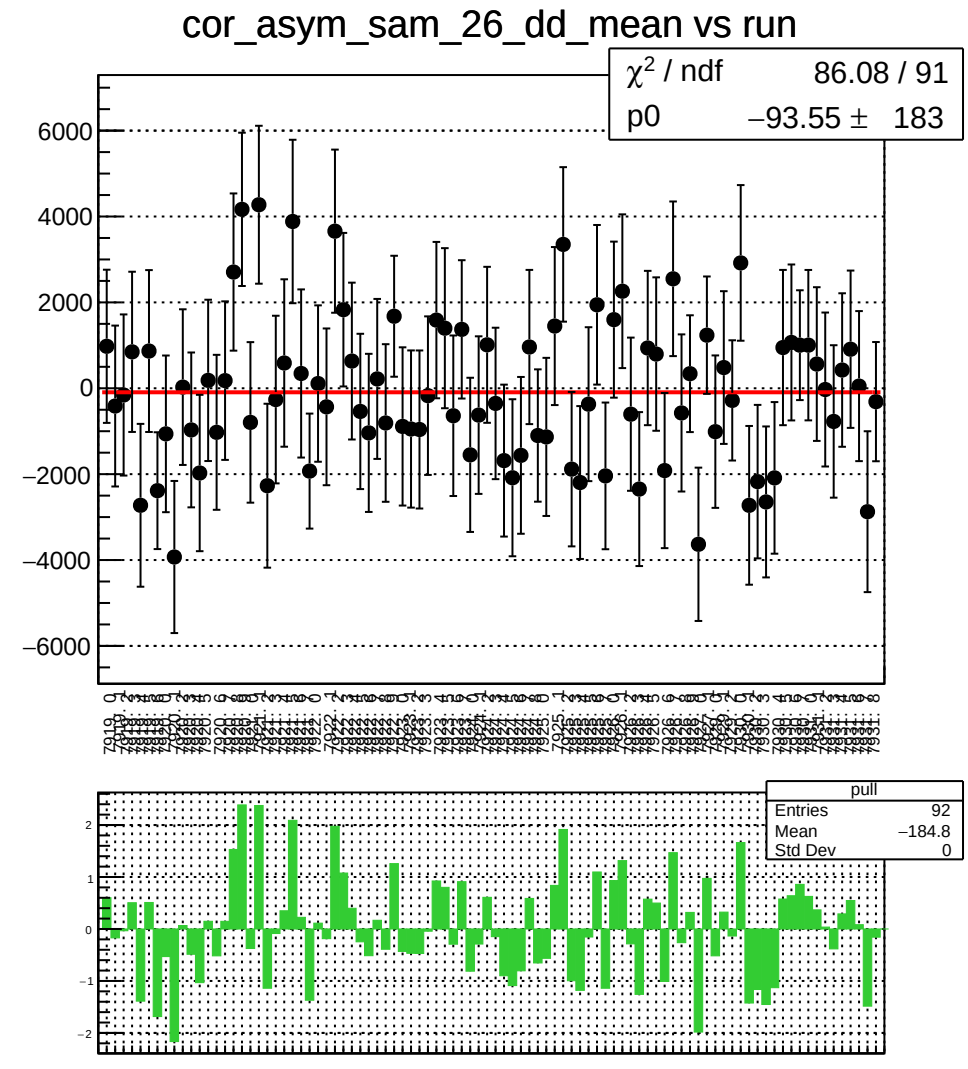

pull1D
Entries 92
Mean 0.003165
Std Dev 0.9673
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

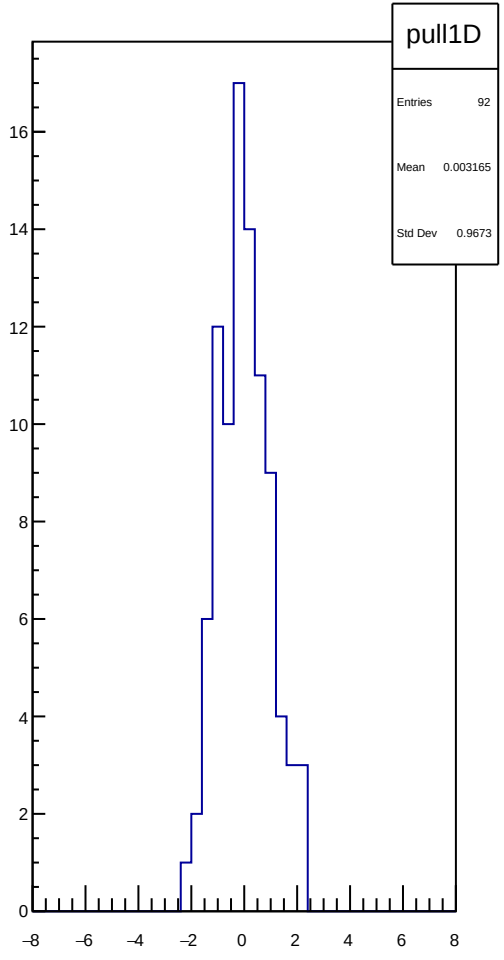

reg_asym_sam_26_dd_rms vs run
χ² / ndf 895.1 / 91
p0 172.8 ± 0.1294
185
180
175
170
165

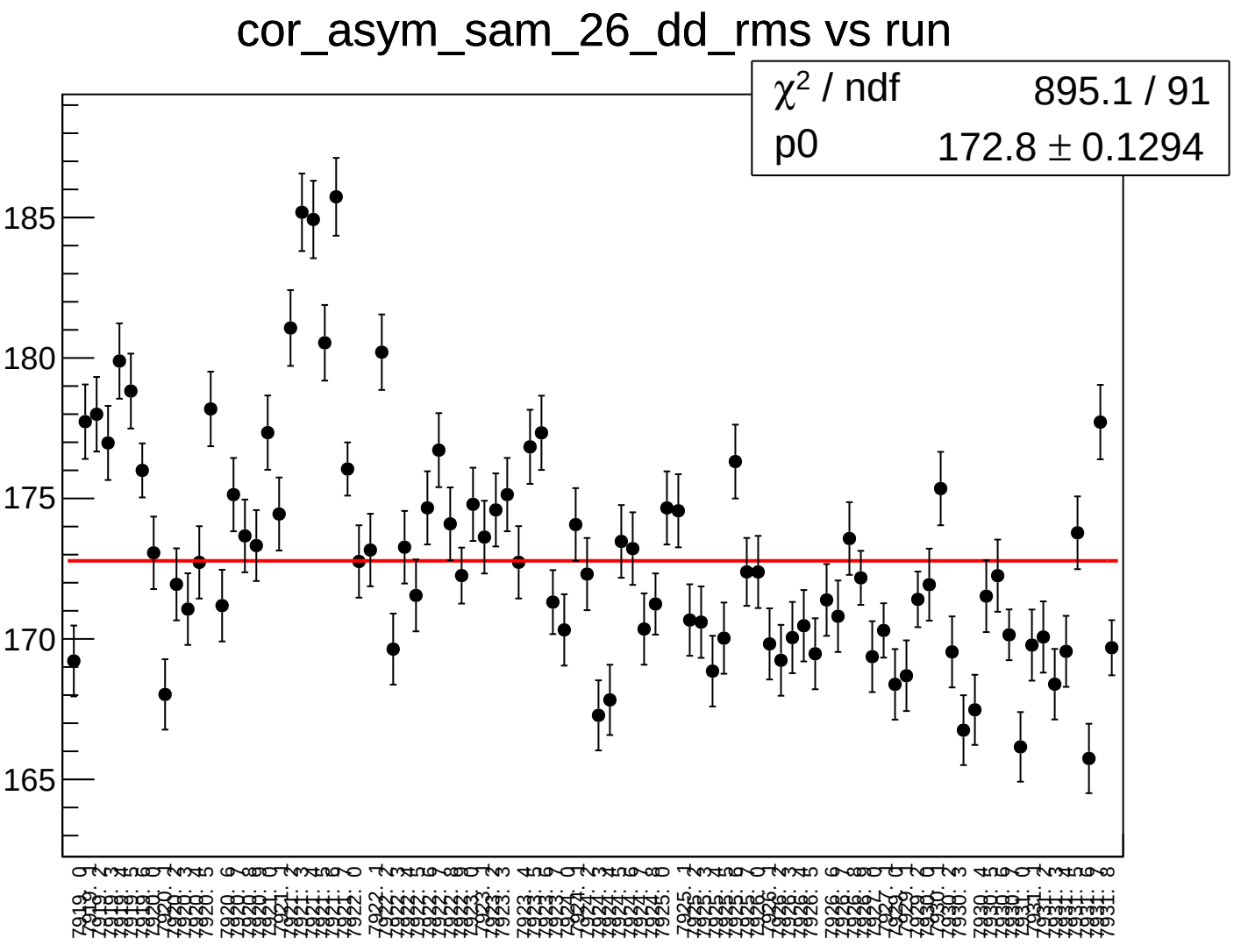

asym_sam_26_dd_reg_correction_mean vs run
χ² / ndf 98.23 / 91
p0 −6373 ± 4099
×10³
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean 1680
Std Dev 0
3
2
1
0
−1
−2

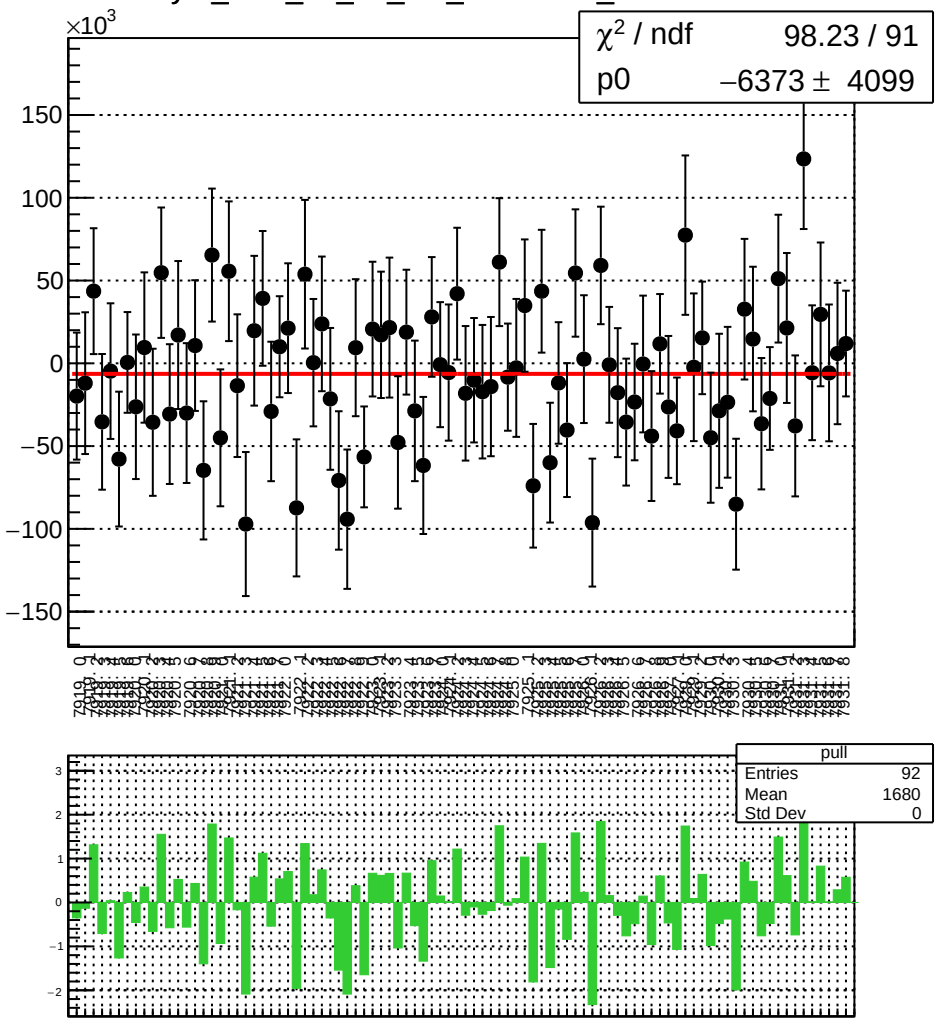

pull1D
Entries 92
Mean 0.001227
Std Dev 1.033
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

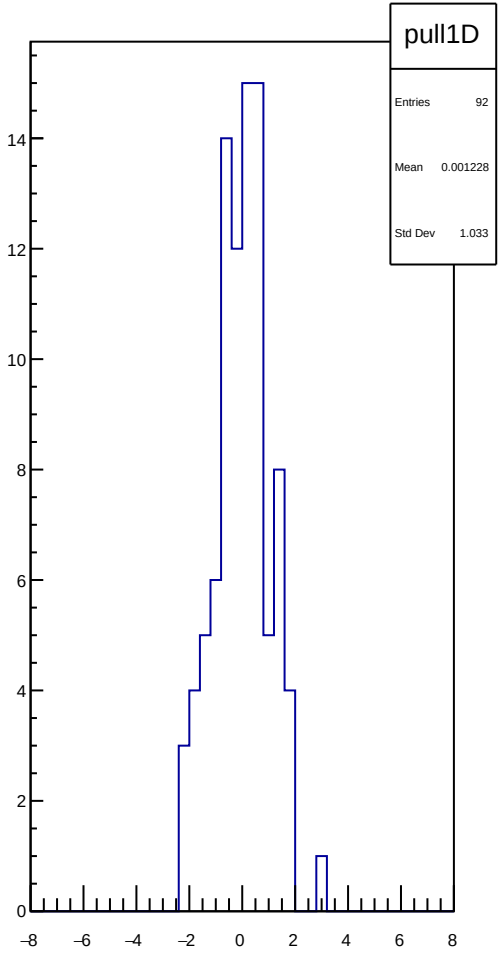

asym_sam_26_dd_reg_correction_rms vs run
χ^2 / ndf 6753 / 91
p0 3863 ± 2.899
4600
4400
4200
4000
3800
3600
3400
3200

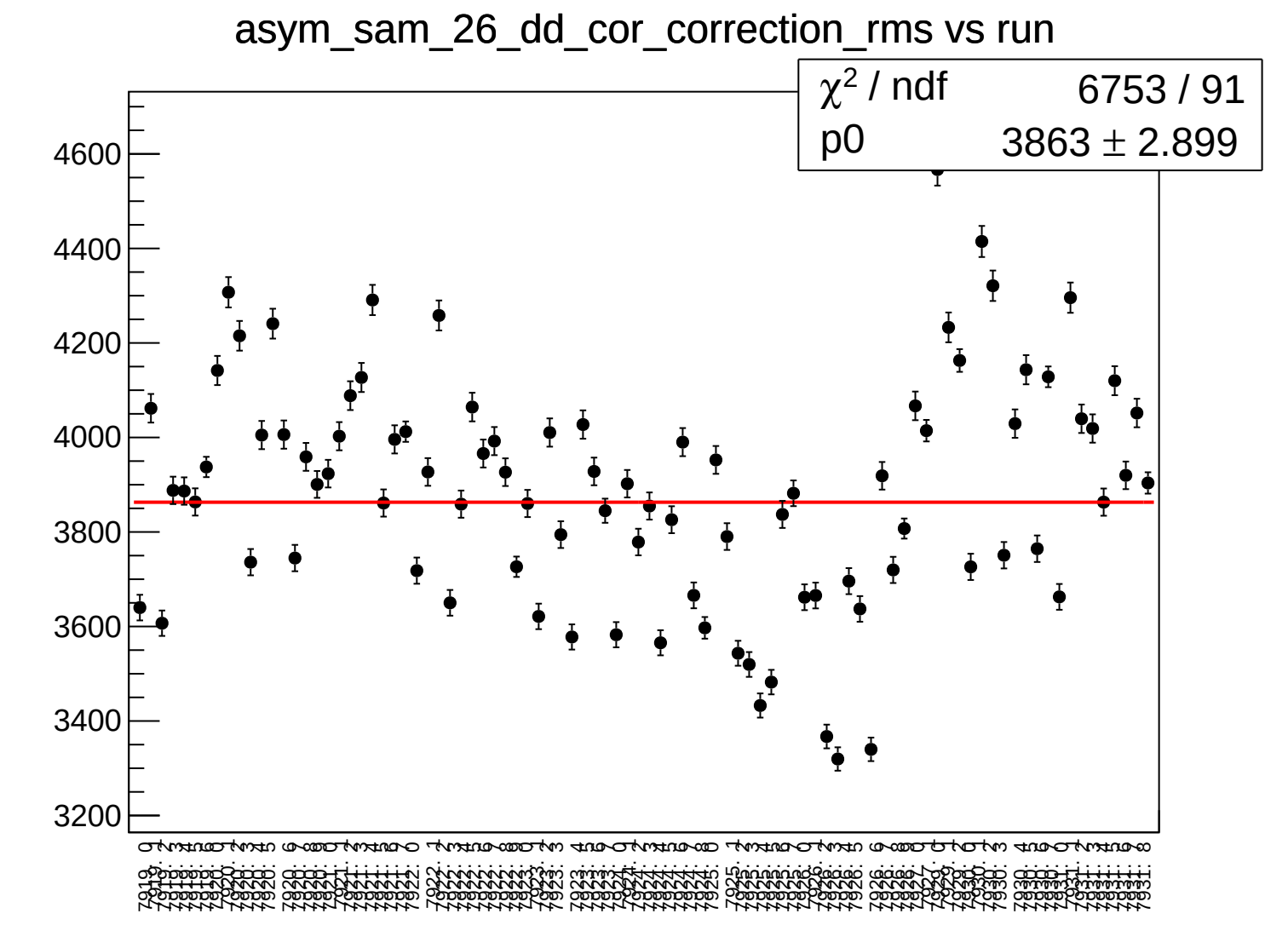

cor_asym_sam_26_dd_mean vs run
χ² / ndf 86.08 / 91
p0 −93.55 ± 183
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 92
Mean −184.8
Std Dev 0
2
1
0
−1
−2

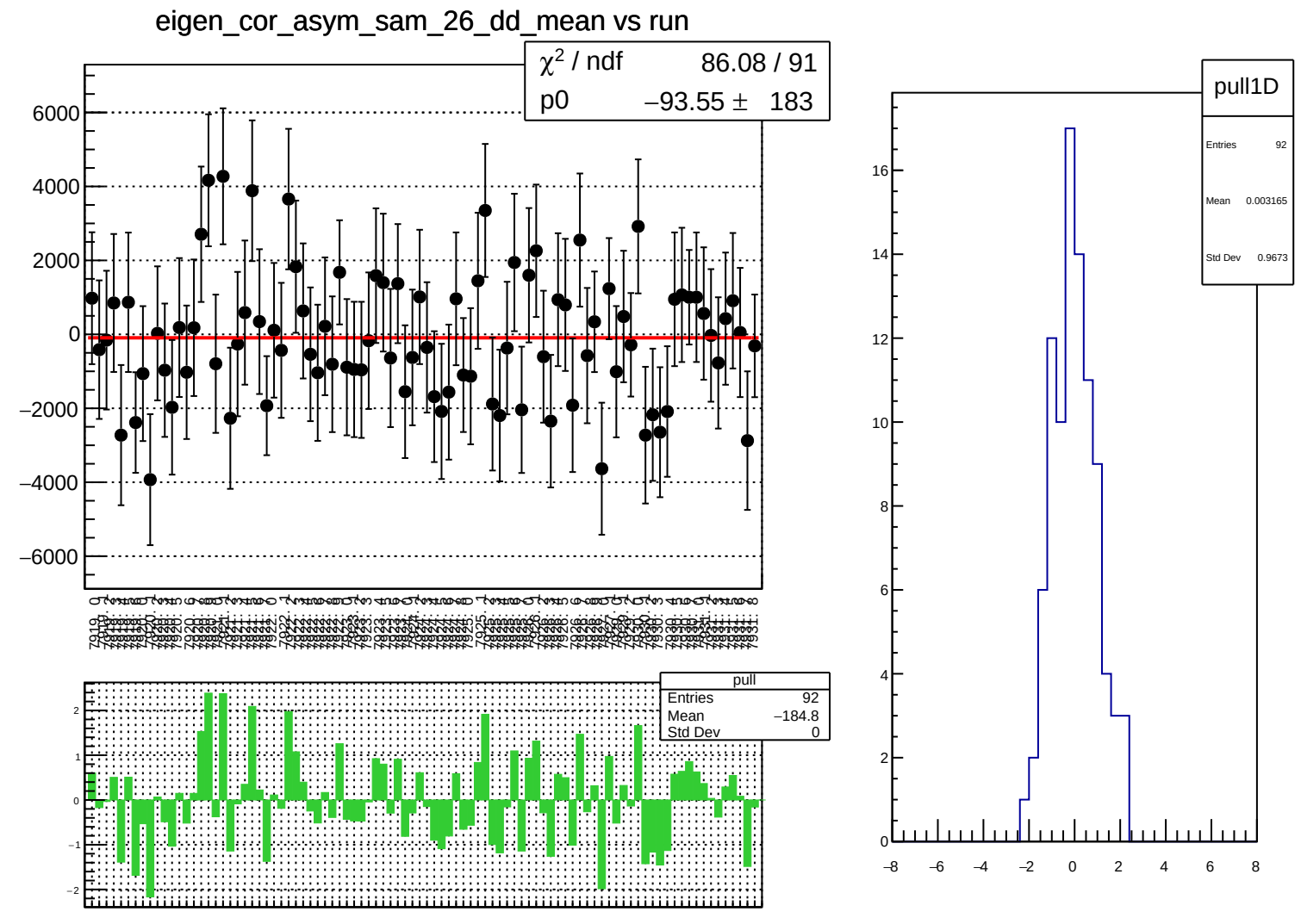

pull1D
Entries 92
Mean 0.003165
Std Dev 0.9673
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

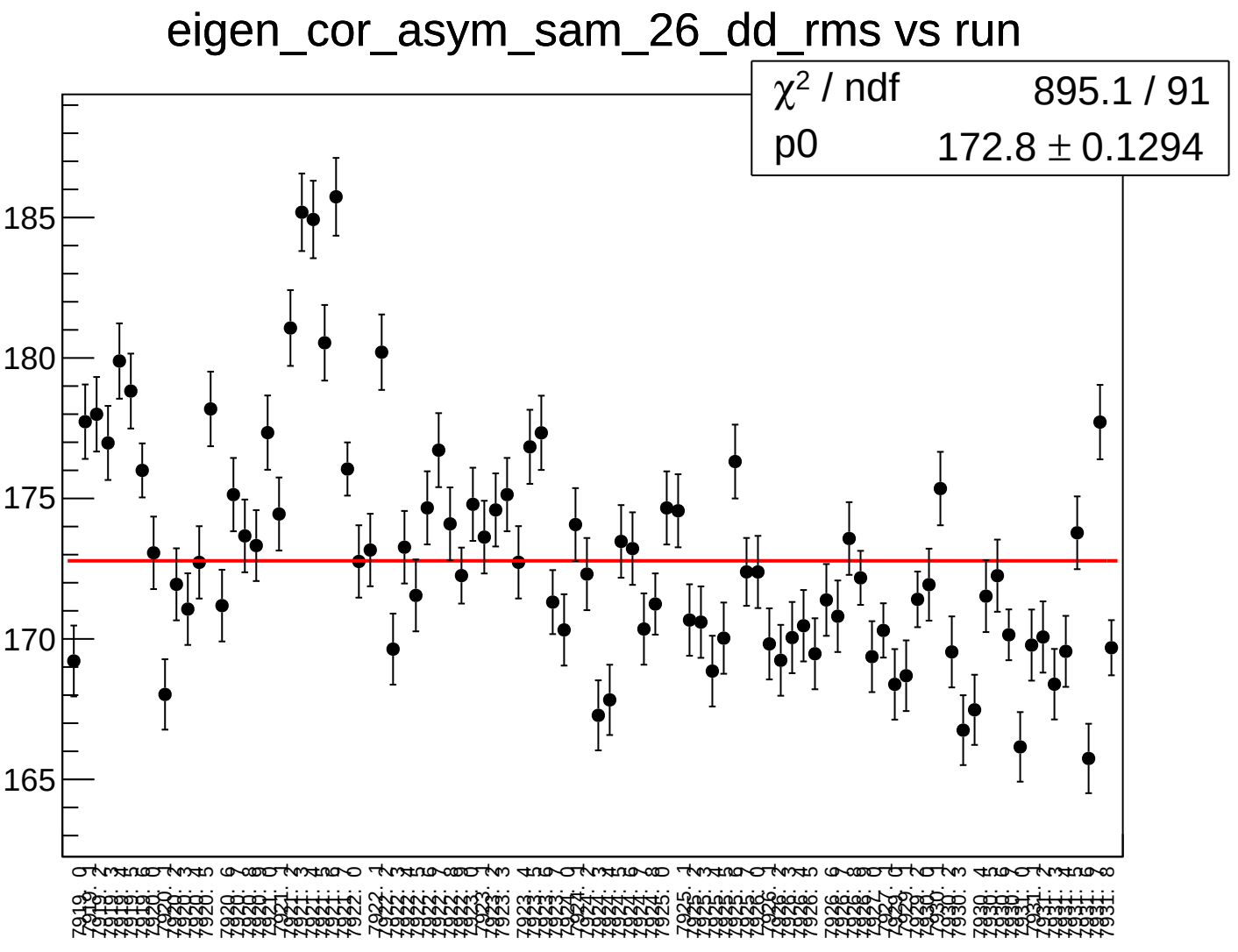

cor_asym_sam_26_dd_rms vs run
χ² / ndf 895.1 / 91
p0 172.8 ± 0.1294
185
180
175
170
165

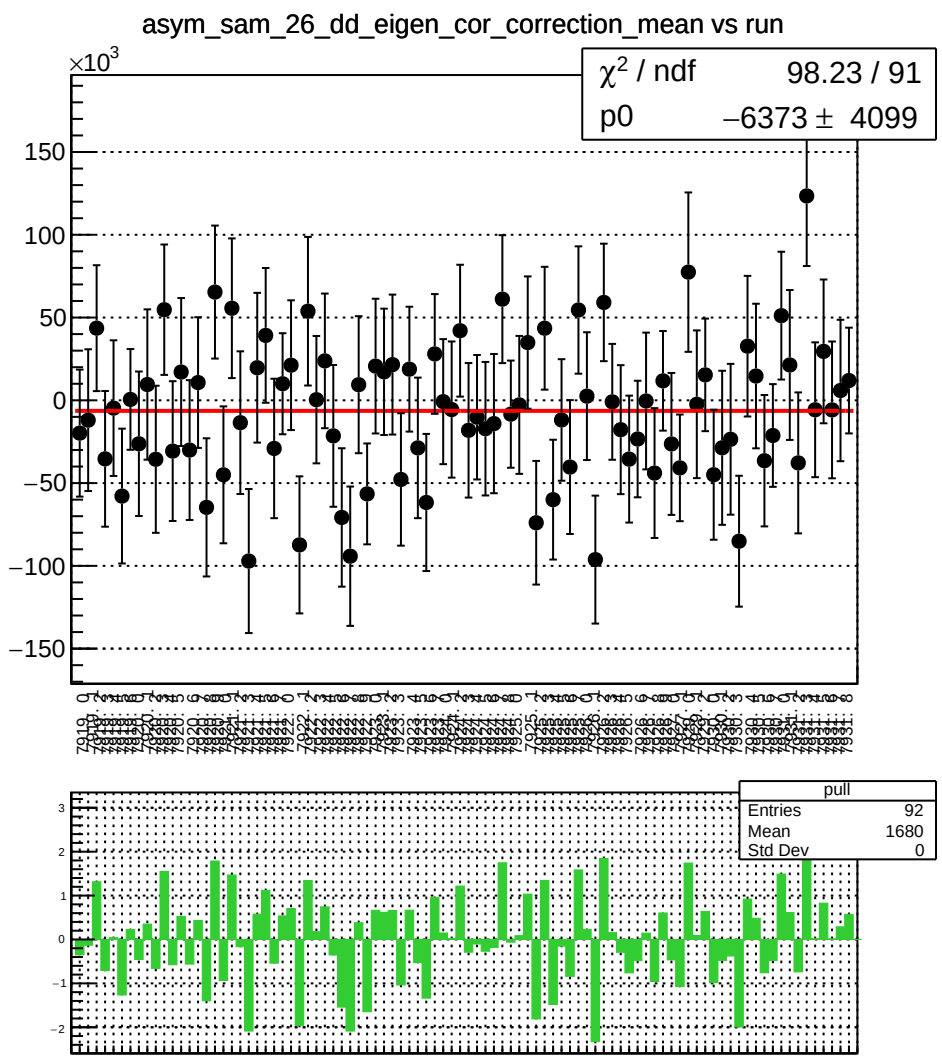

asym_sam_26_dd_cor_correction_mean vs run
×10^3
χ² / ndf 98.23 / 91
p0 −6373 ± 4099
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean 1680
Std Dev 0
3
2
1
0
−1
−2

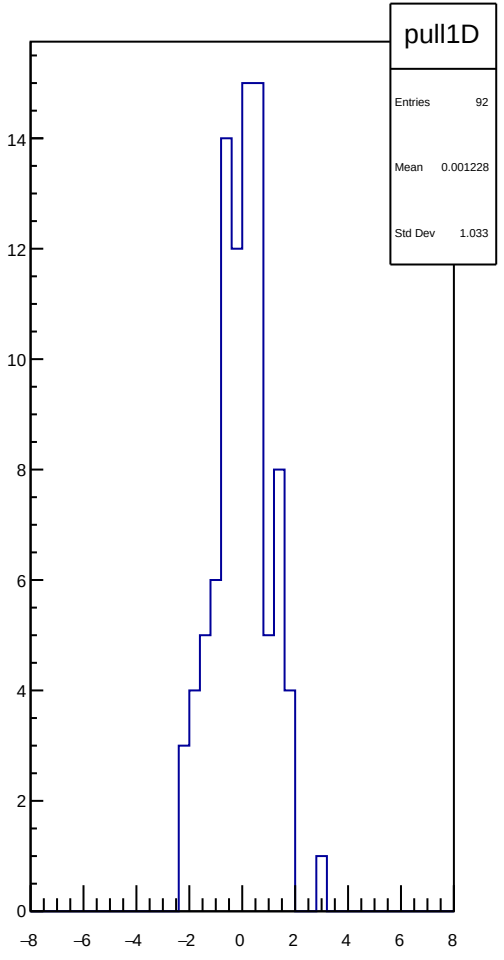

pull1D
Entries 92
Mean 0.001228
Std Dev 1.033
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

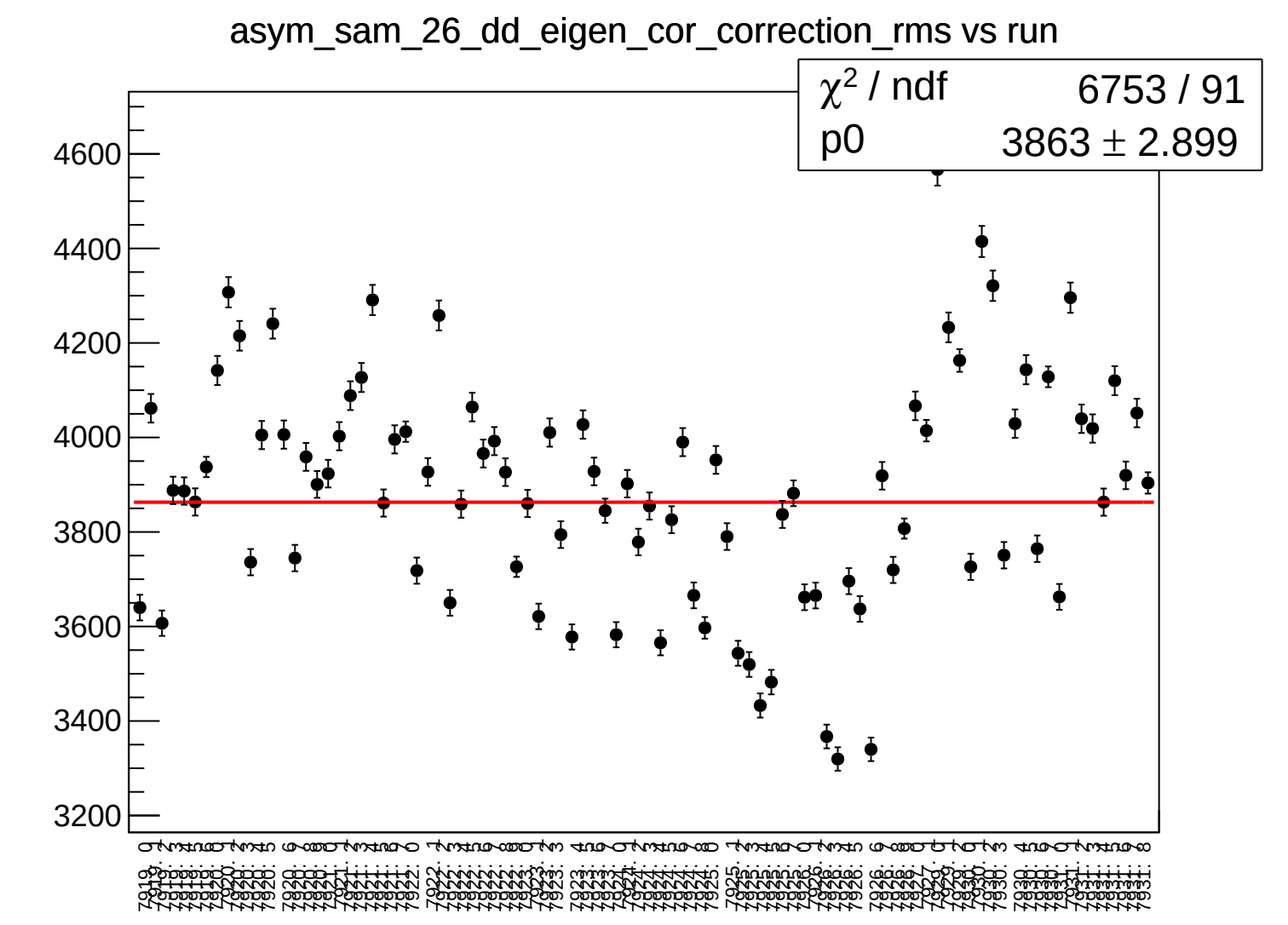

asym_sam_26_dd_cor_correction_rms vs run
χ² / ndf 6753 / 91
p0 3863 ± 2.899
4600
4400
4200
4000
3800
3600
3400
3200

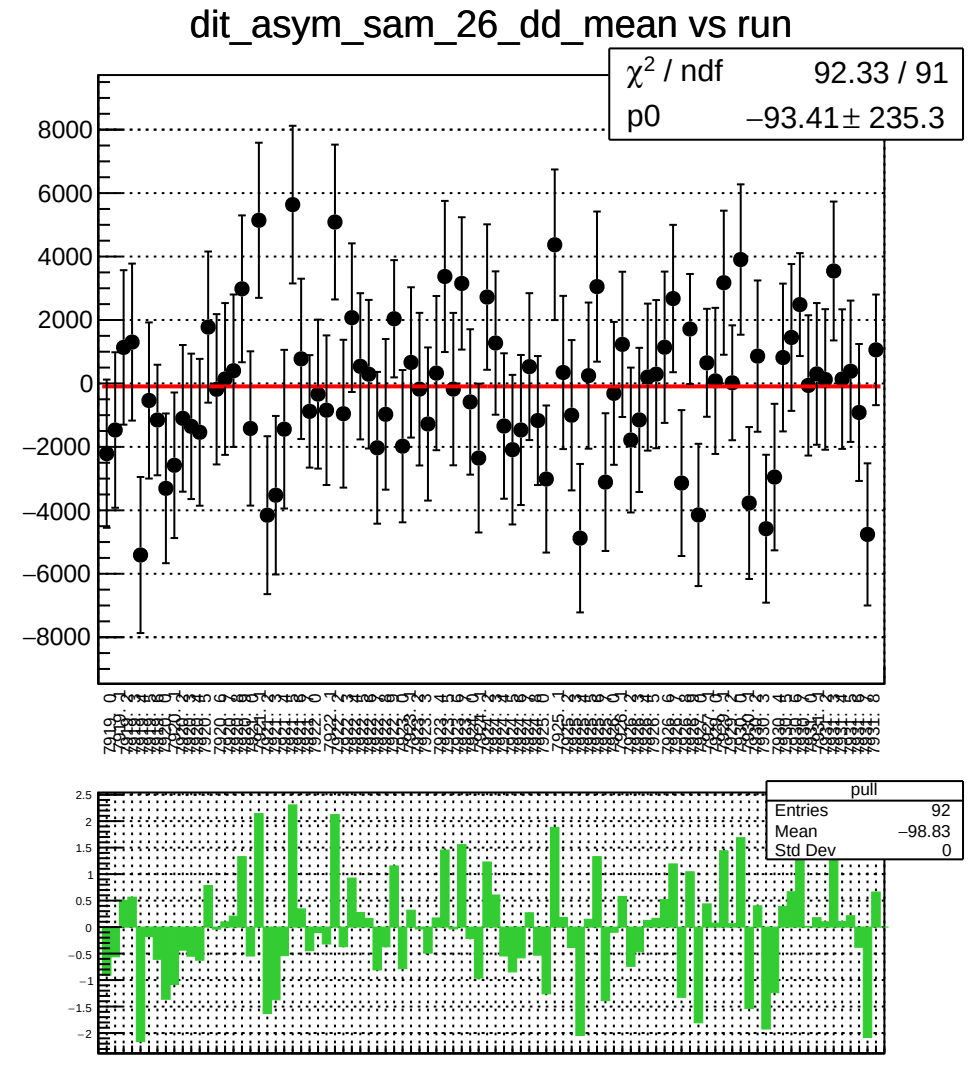

eigen_cor_asym_sam_26_dd_mean vs run
χ² / ndf 86.08 / 91
p0 −93.55 ± 183
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 92
Mean −184.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.003165
Std Dev 0.9673
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

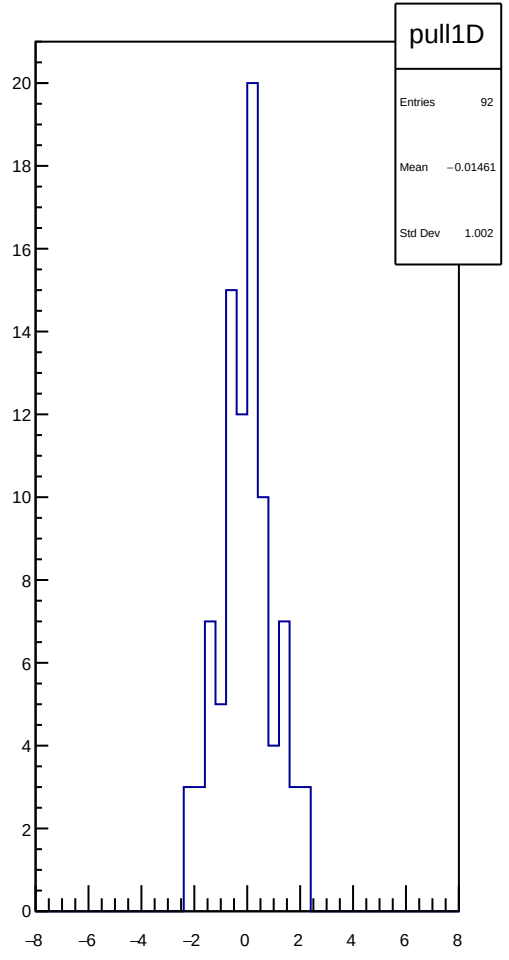

eigen_cor_asym_sam_26_dd_rms vs run
χ² / ndf 895.1 / 91
p0 172.8 ± 0.1294
185
180
175
170
165

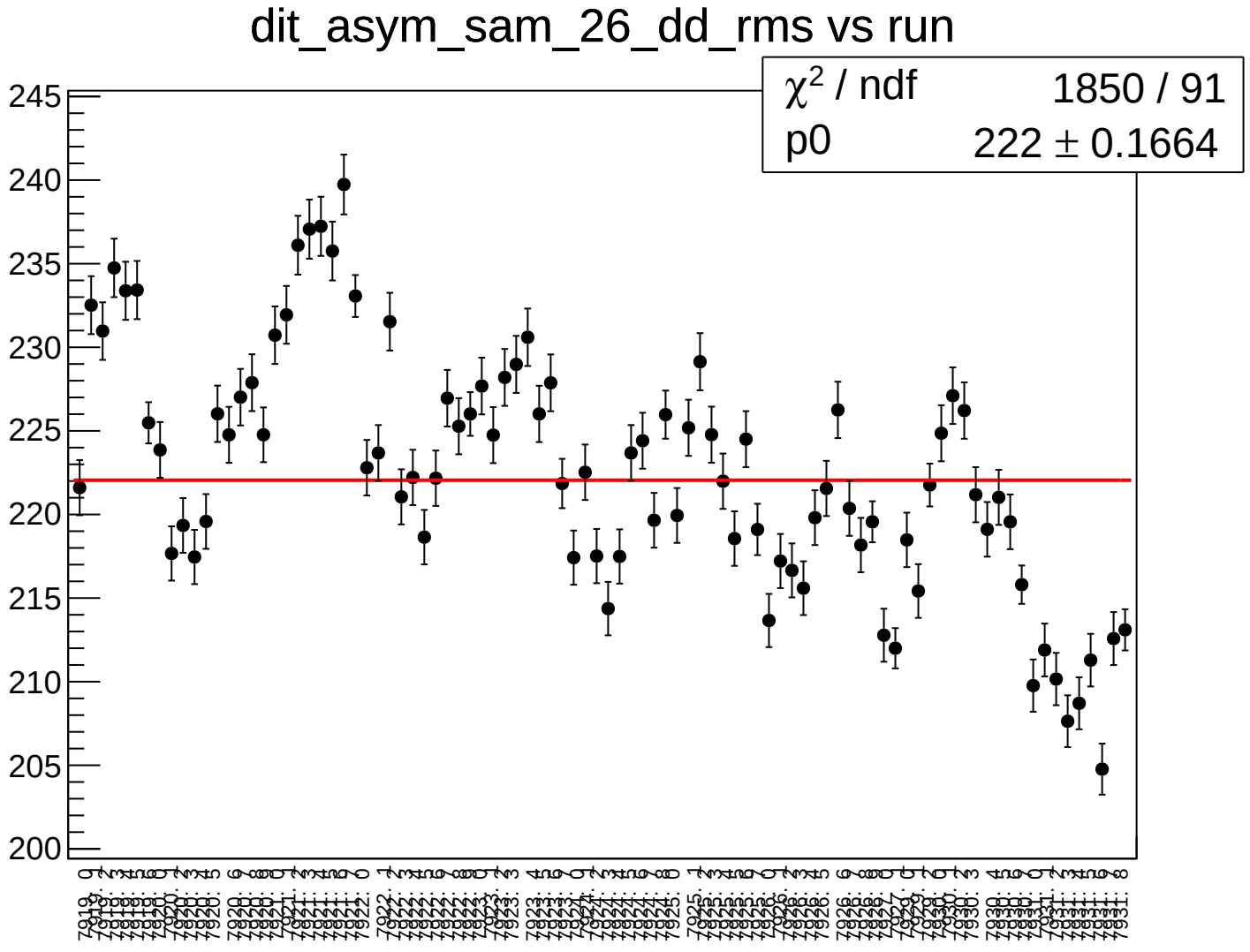

asym_sam_26_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 98.23 / 91
p0 −6373 ± 4099
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean 1680
Std Dev 0
3
2
1
0
−1
−2

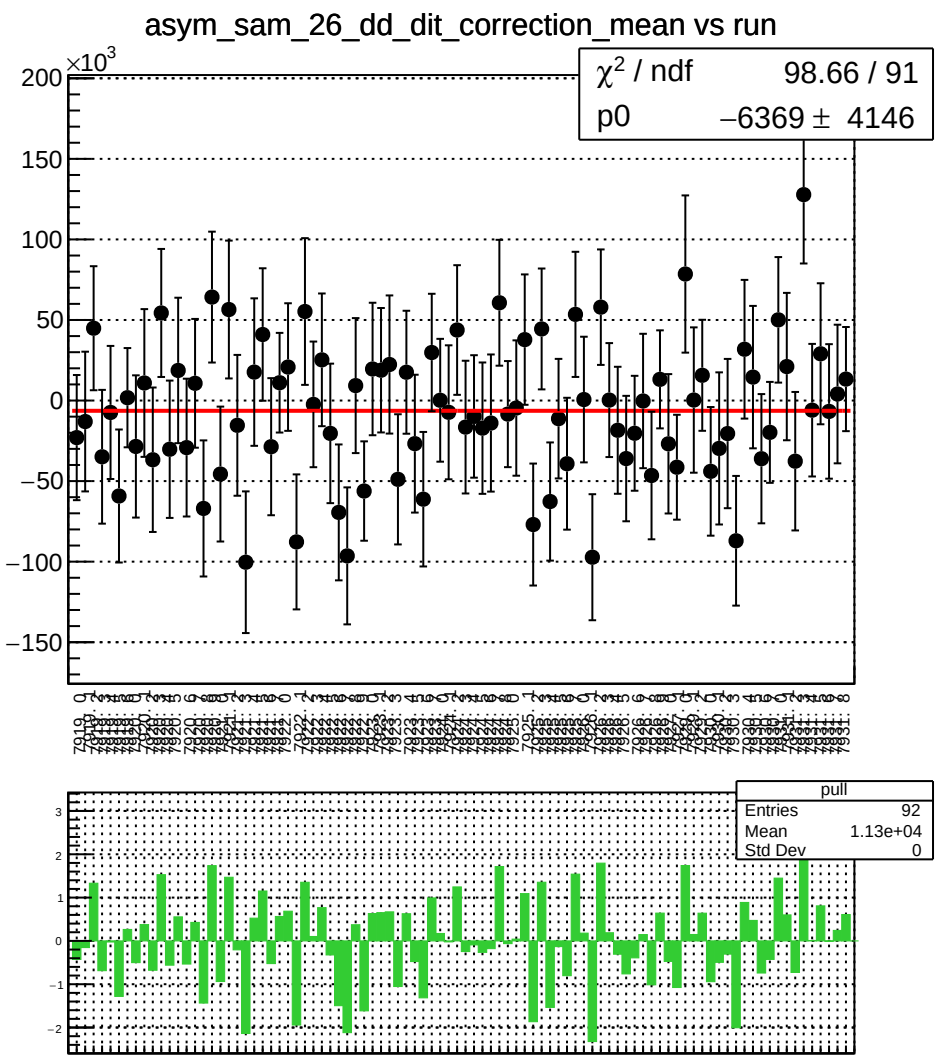

pull1D
Entries 92
Mean 0.001228
Std Dev 1.033
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

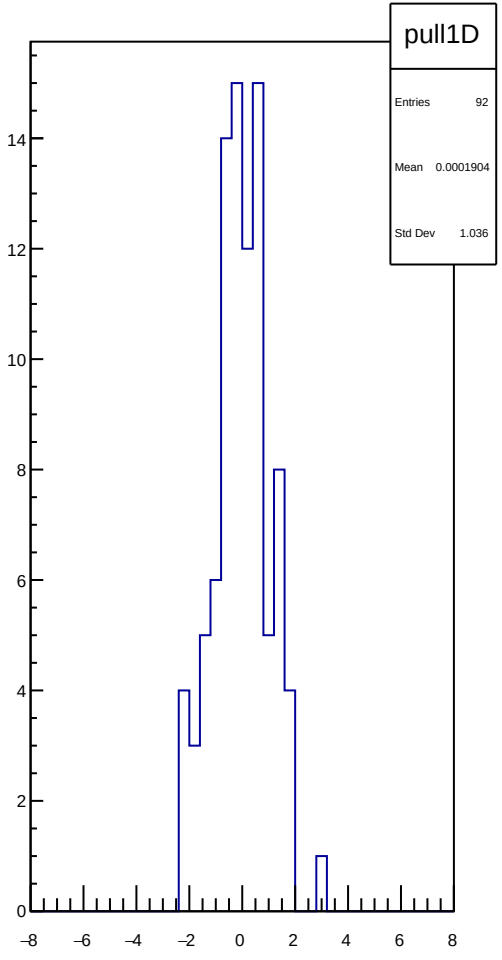

asym_sam_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 6753 / 91
p0 3863 ± 2.899
4600
4400
4200
4000
3800
3600
3400
3200

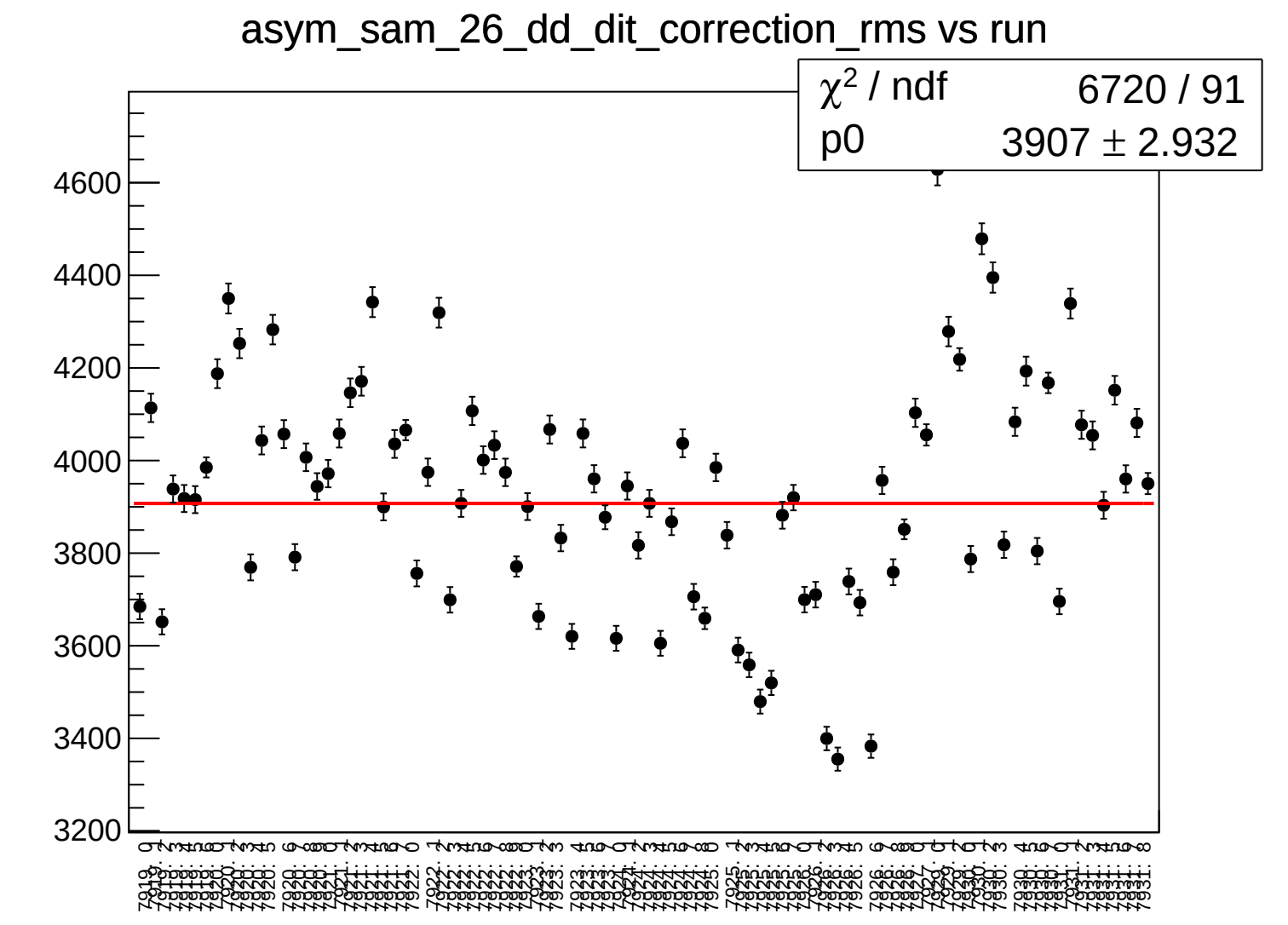

dit_asym_sam_26_dd_mean vs run
χ² / ndf 92.33 / 91
p0 −93.41 ± 235.3
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 92
Mean −98.83
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

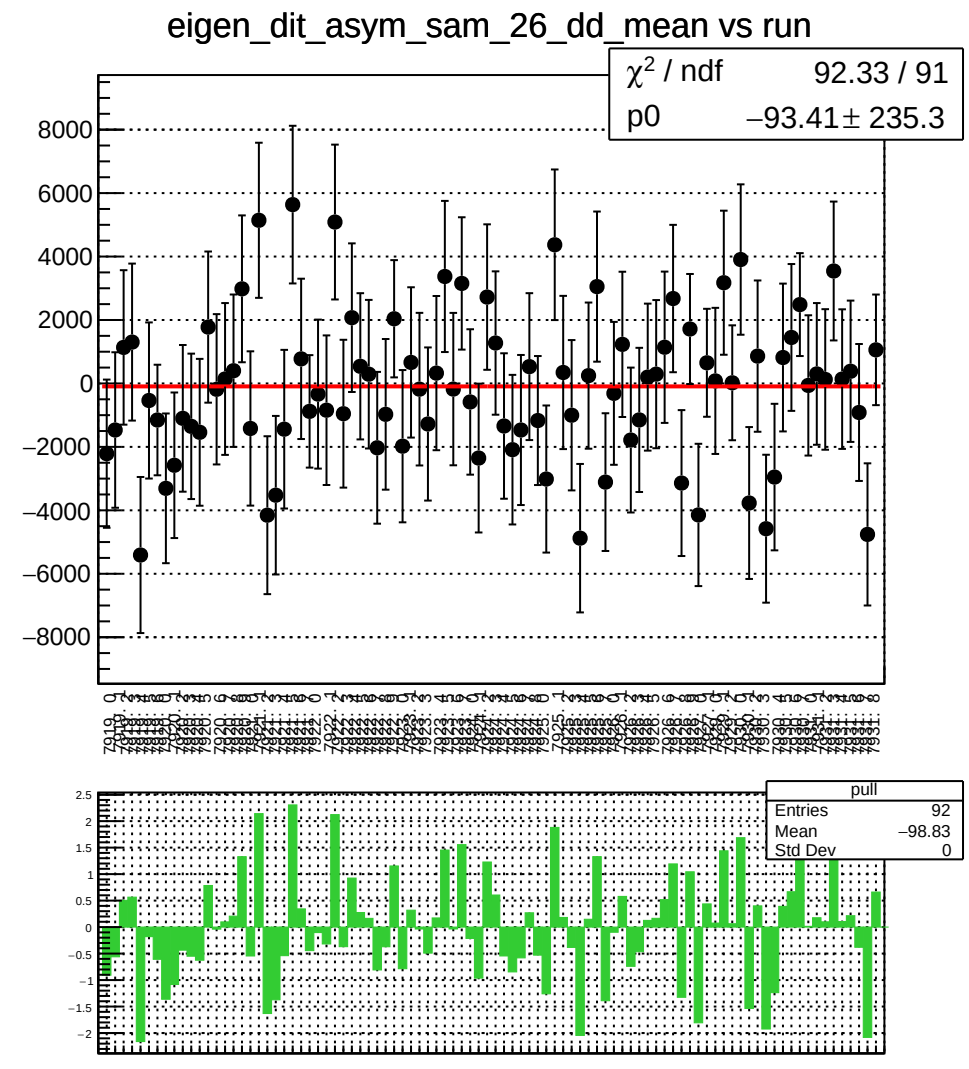

pull1D
Entries 92
Mean −0.01461
Std Dev 1.002
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

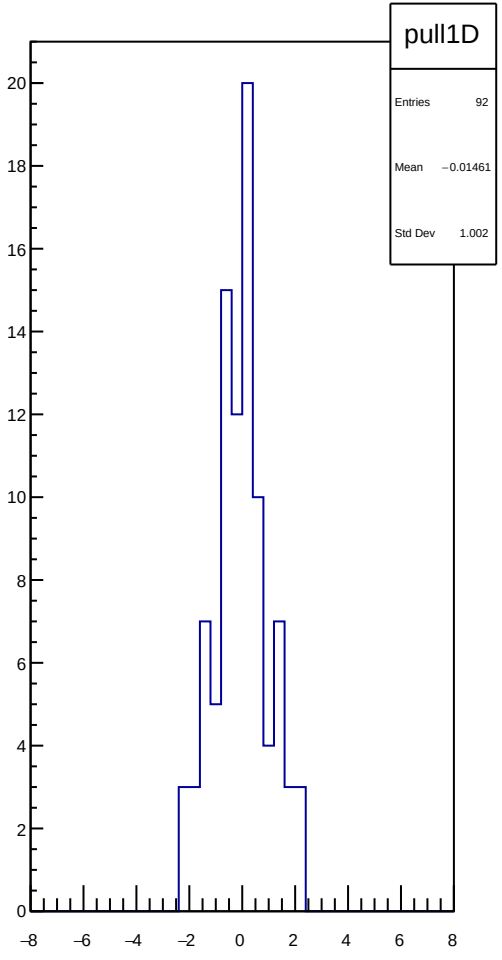

dit_asym_sam_26_dd_rms vs run
χ² / ndf 1850 / 91
p0 222 ± 0.1664
245
240
235
230
225
220
215
210
205
200

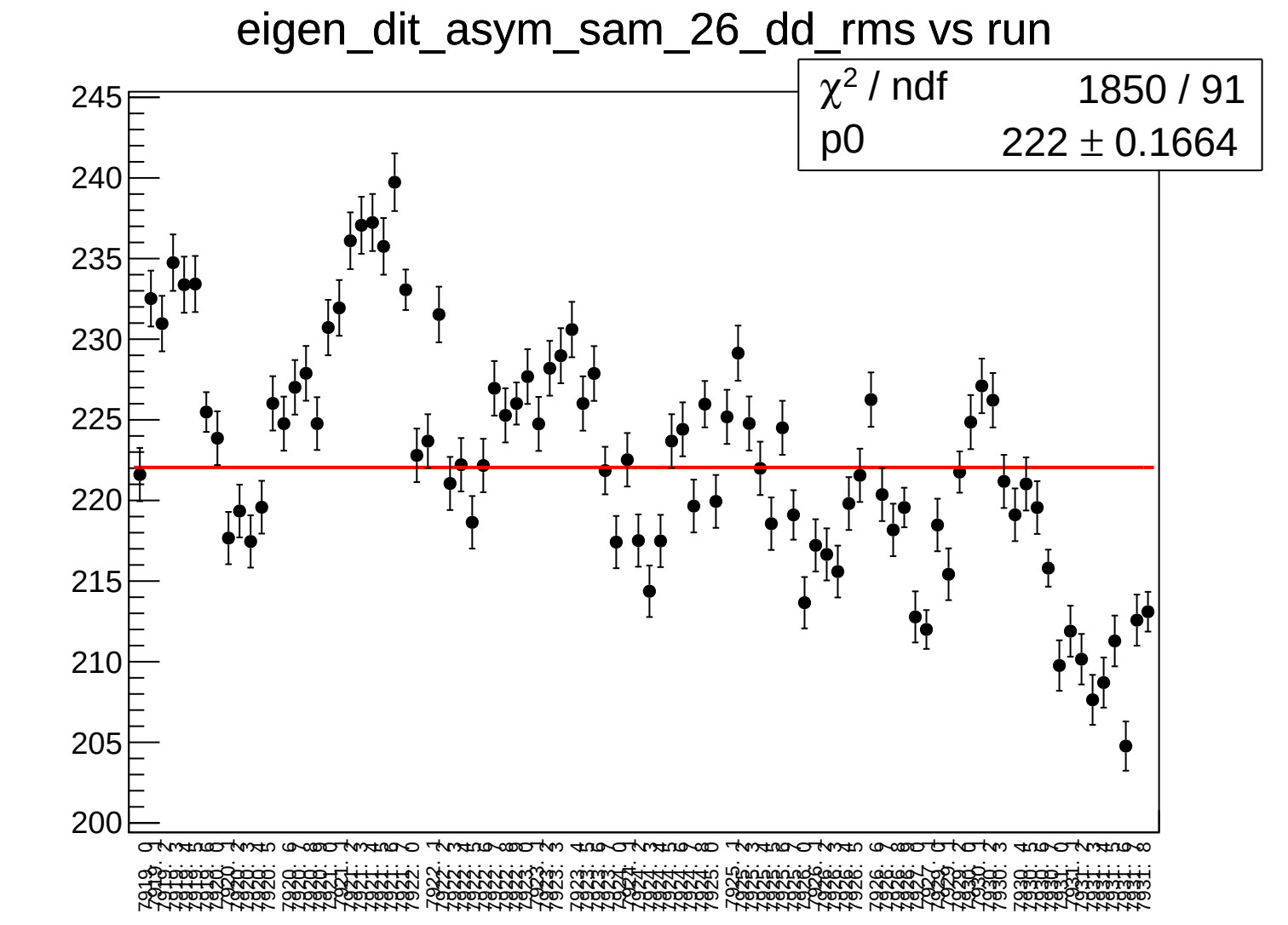

asym_sam_26_dd_dit_correction_mean vs run
×10^3
χ² / ndf 98.66 / 91
p0 −6369 ± 4146
pull
Entries 92
Mean 1.13e+04
Std Dev 0

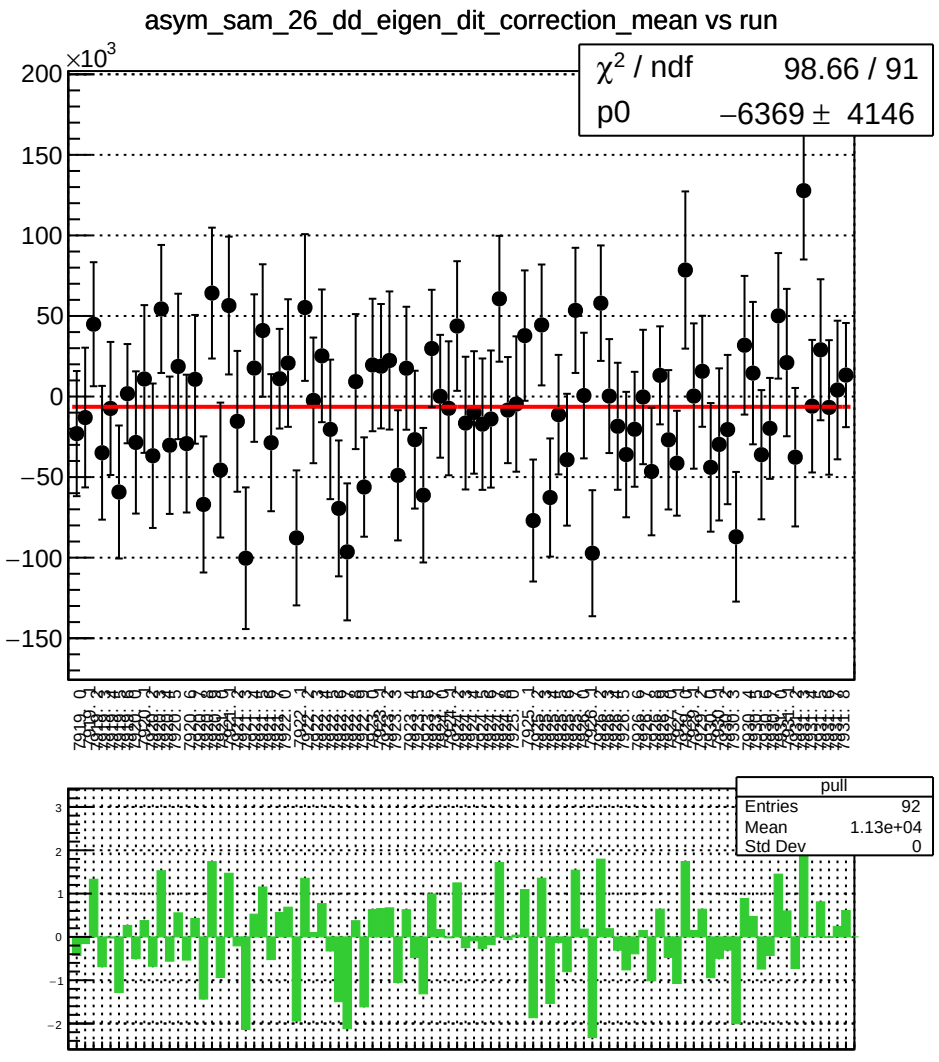

pull1D
Entries 92
Mean 0.0001904
Std Dev 1.036

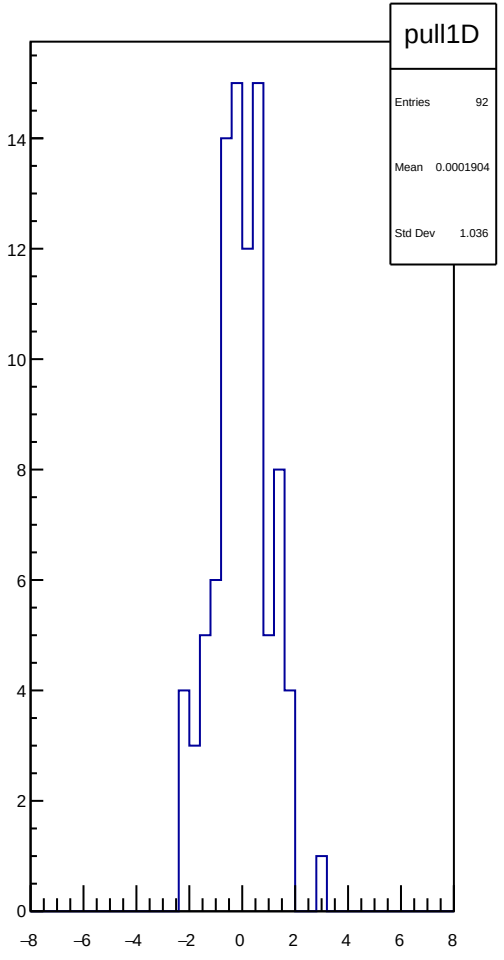

asym_sam_26_dd_dit_correction_rms vs run
χ² / ndf 6720 / 91
p0 3907 ± 2.932
4600
4400
4200
4000
3800
3600
3400
3200

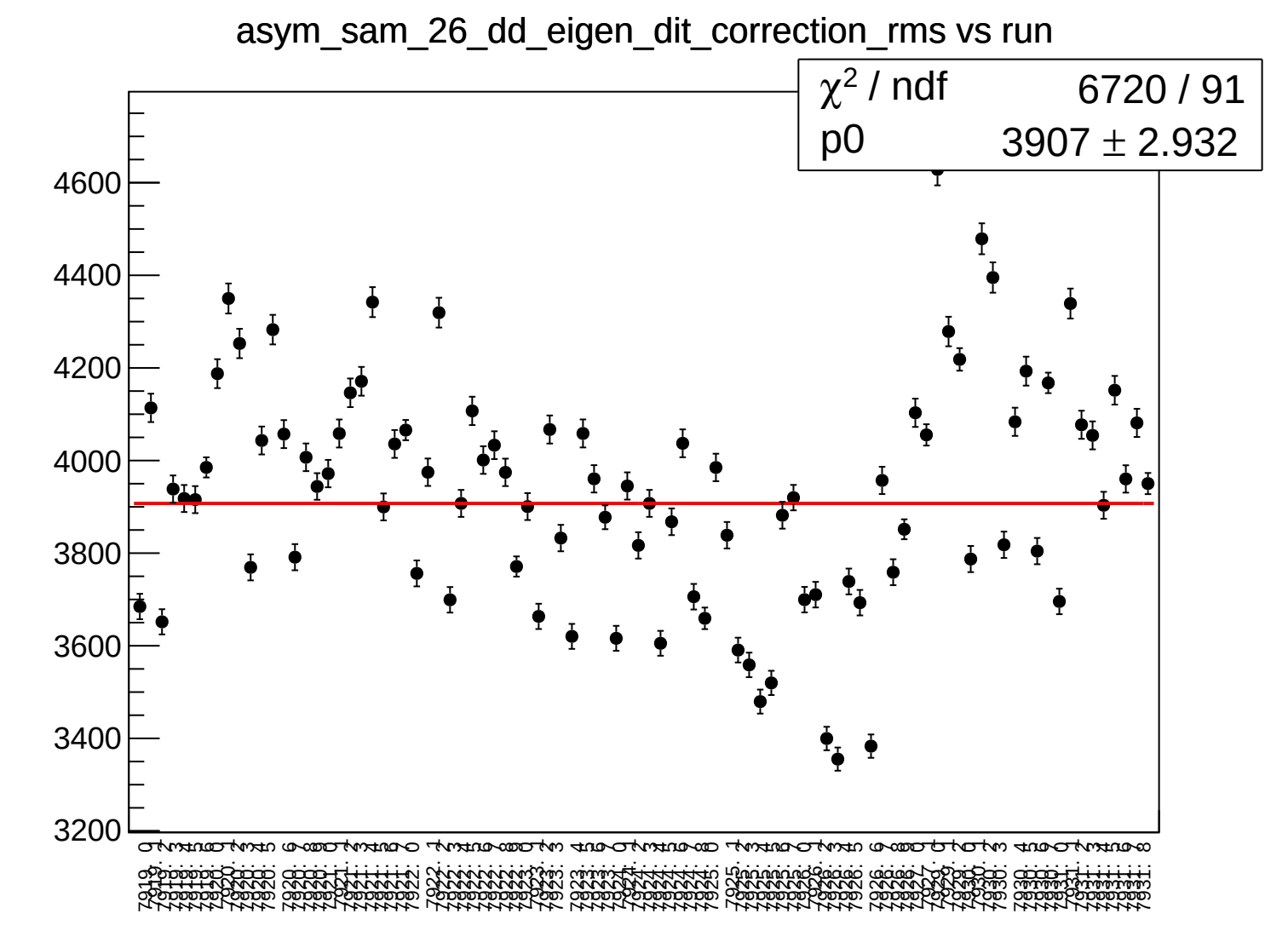

eigen_dit_asym_sam_26_dd_mean vs run
χ² / ndf 92.33 / 91
p0 −93.41 ± 235.3
pull
Entries 92
Mean −98.83
Std Dev 0

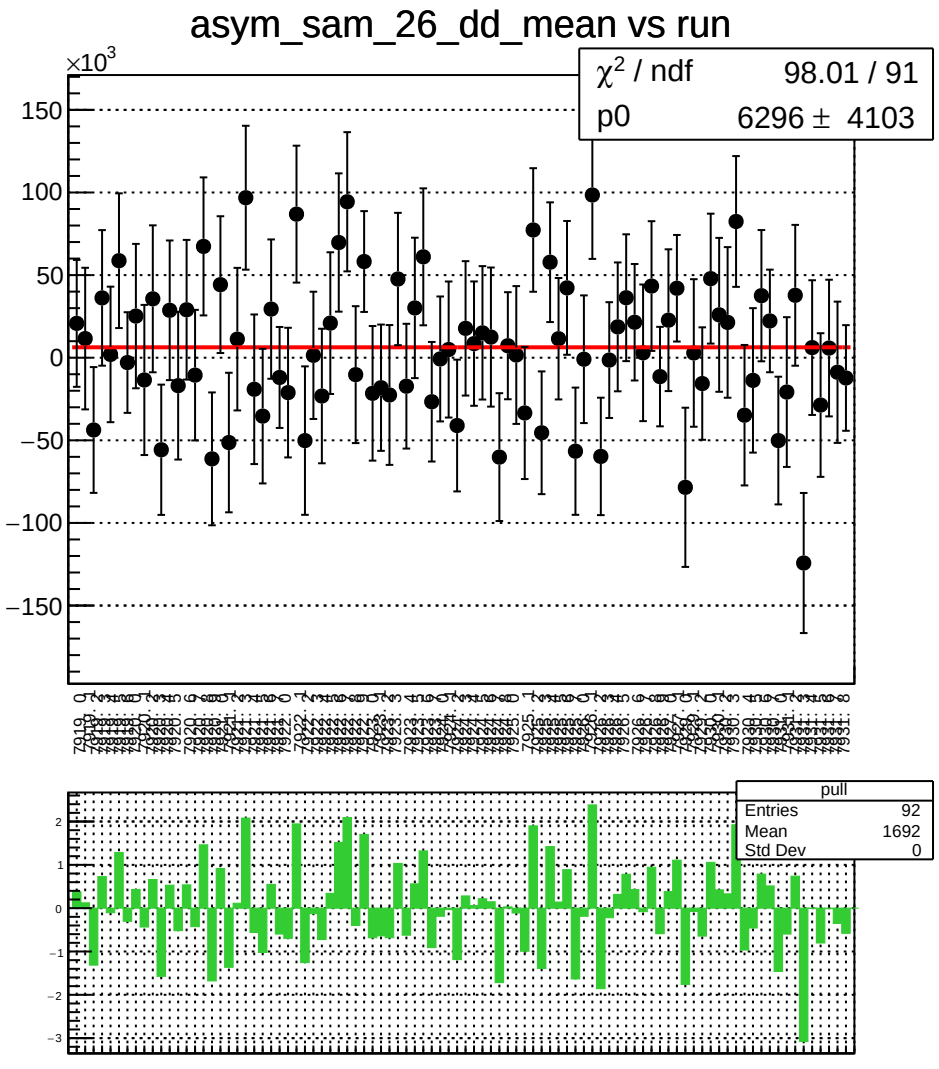

pull1D
Entries 92
Mean −0.01461
Std Dev 1.002

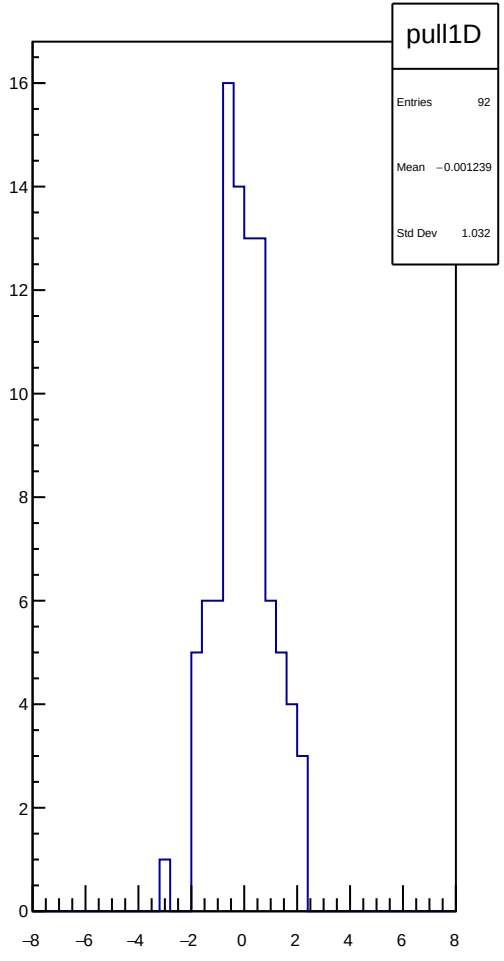

eigen_dit_asym_sam_26_dd_rms vs run
χ² / ndf 1850 / 91
p0 222 ± 0.1664
245
240
235
230
225
220
215
210
205
200

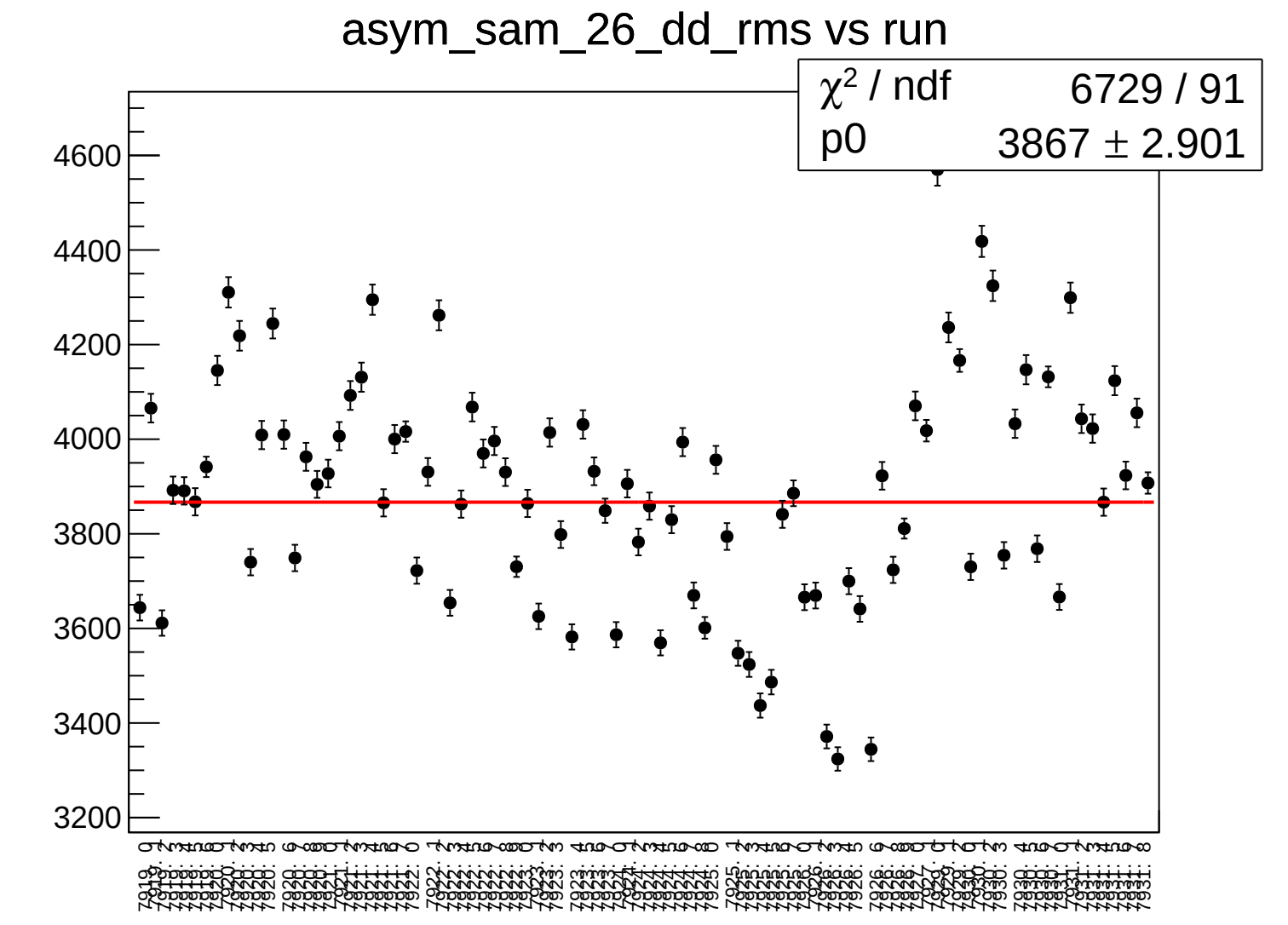

asym_sam_26_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 98.66 / 91
p0 −6369 ± 4146
pull
Entries 92
Mean 1.13e+04
Std Dev 0

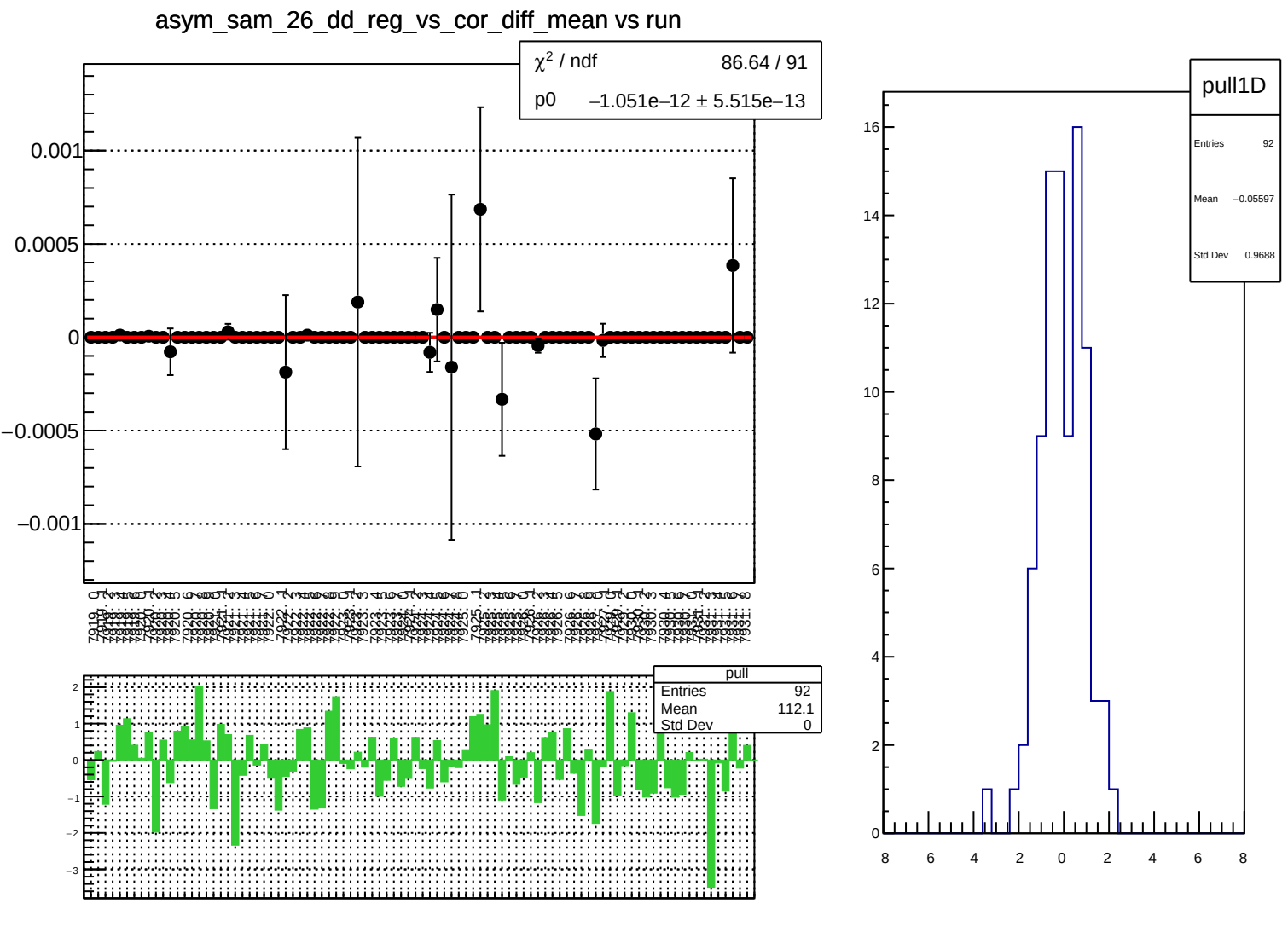

pull1D
Entries 92
Mean 0.0001904
Std Dev 1.036

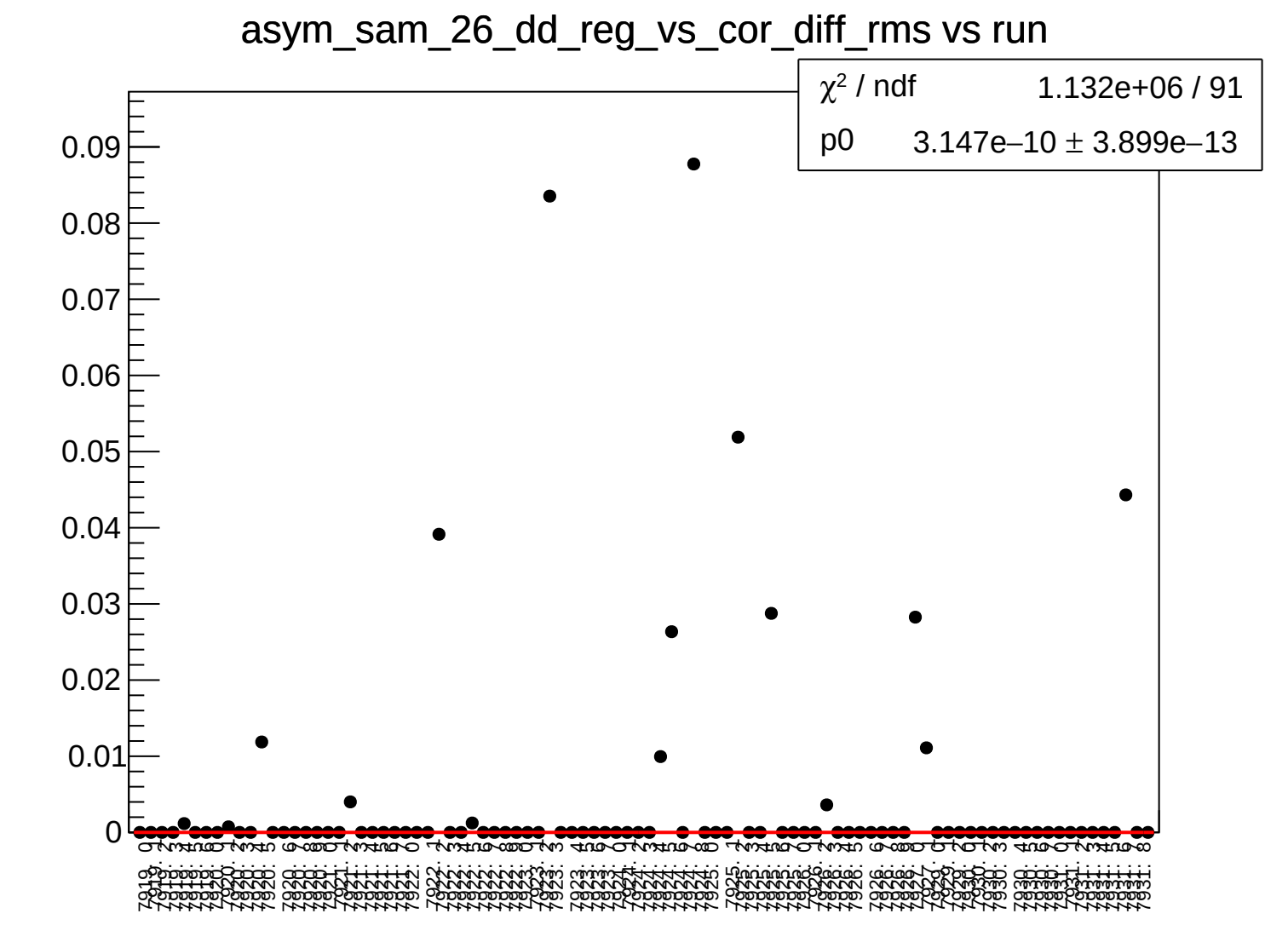

asym_sam_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 6720 / 91
p0 3907 ± 2.932
4600
4400
4200
4000
3800
3600
3400
3200

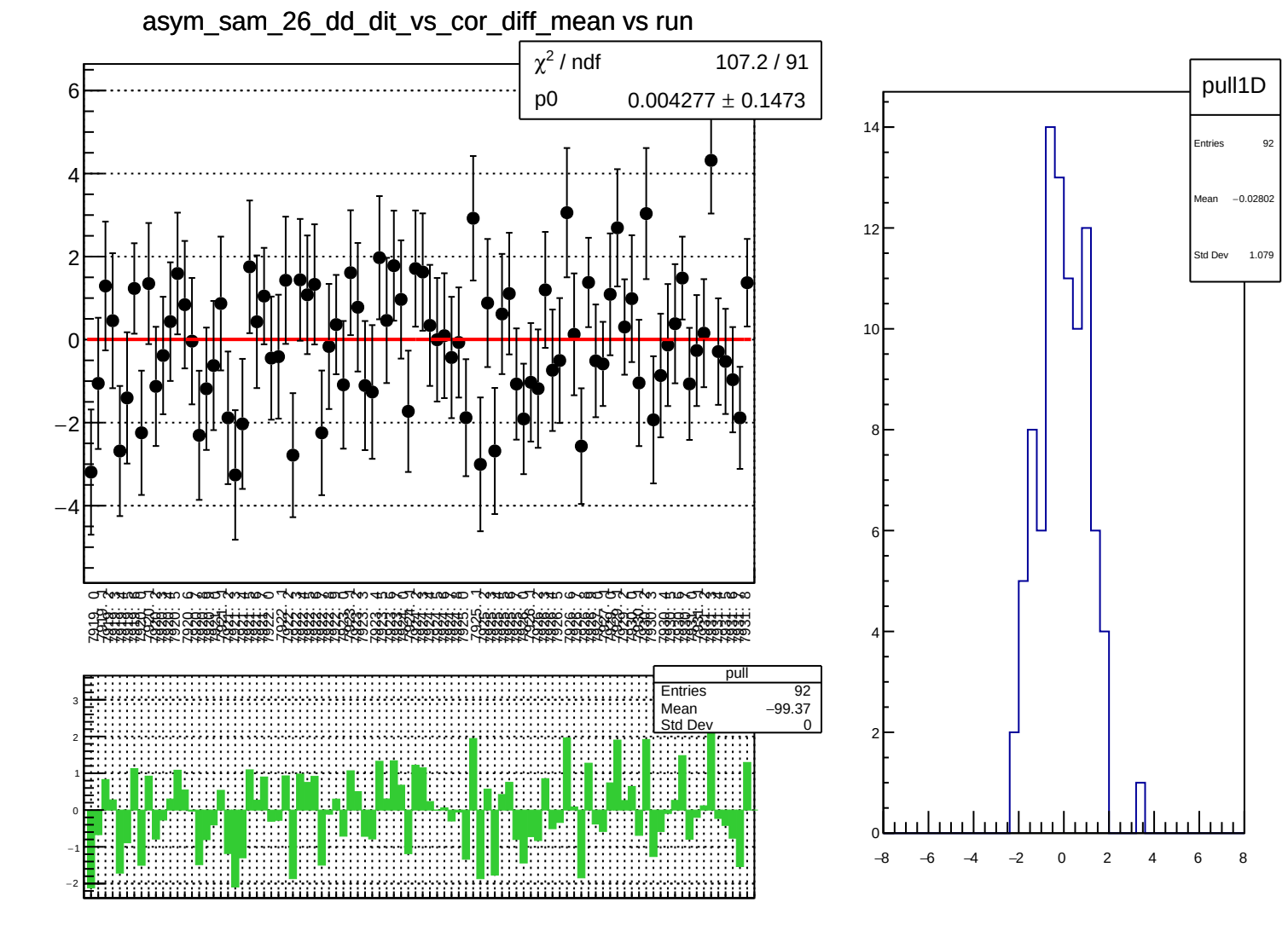

asym_sam_26_dd_mean vs run
×10^3
χ^2 / ndf 98.01 / 91
p0 6296 ± 4103
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean 1692
Std Dev 0
2
1
0
−1
−2
−3

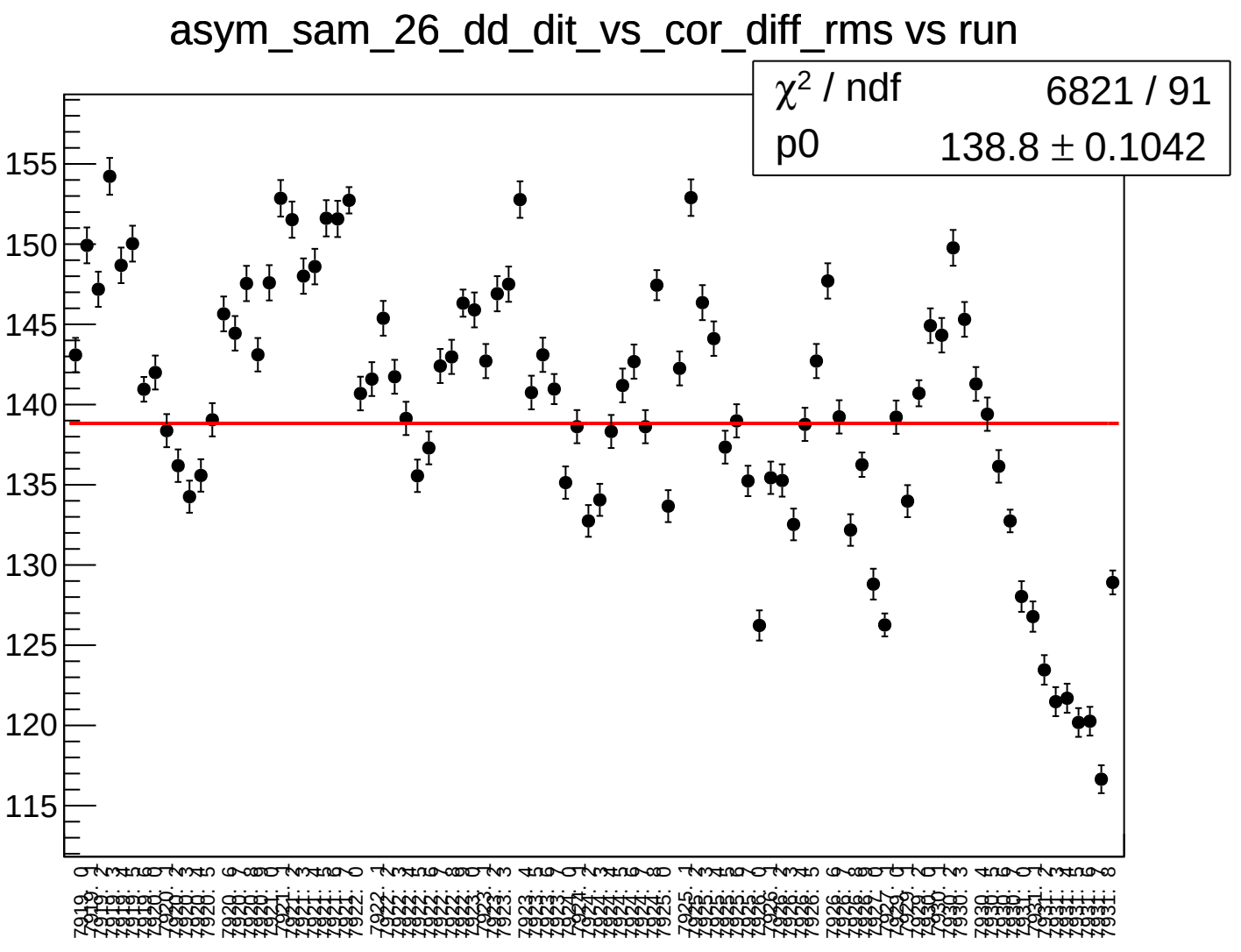

pull1D
Entries 92
Mean −0.001239
Std Dev 1.032
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

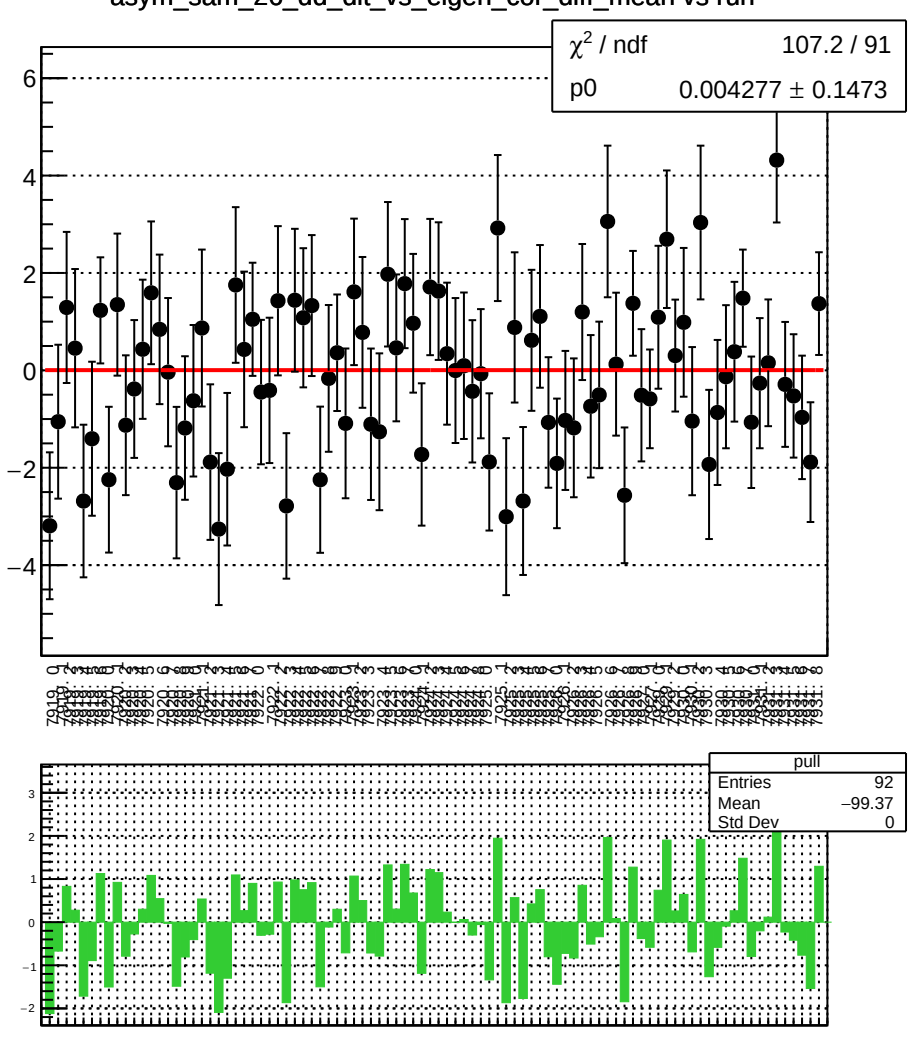

asym_sam_26_dd_rms vs run
χ² / ndf 6729 / 91
p0 3867 ± 2.901
4600
4400
4200
4000
3800
3600
3400
3200

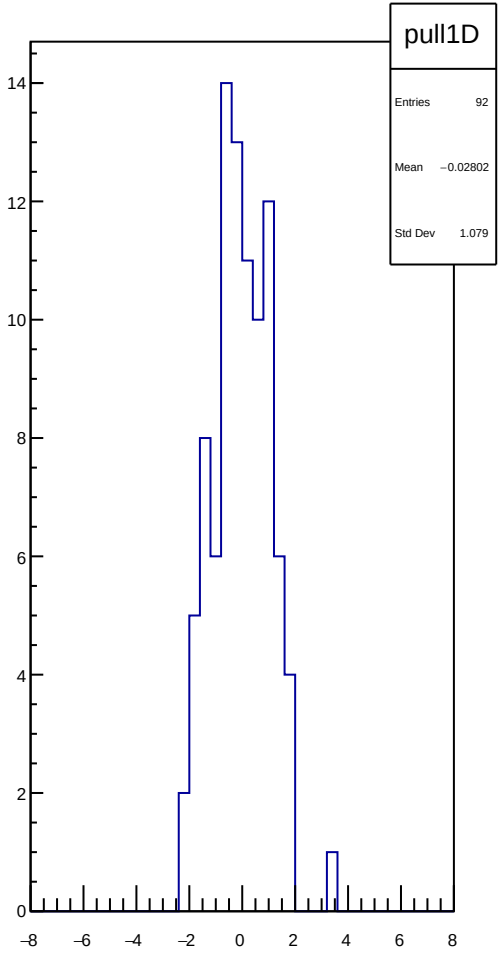

asym_sam_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 86.64 / 91
p0 −1.051e−12 ± 5.515e−13
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 92
Mean 112.1
Std Dev 0
pull1D
Entries 92
Mean −0.05597
Std Dev 0.9688

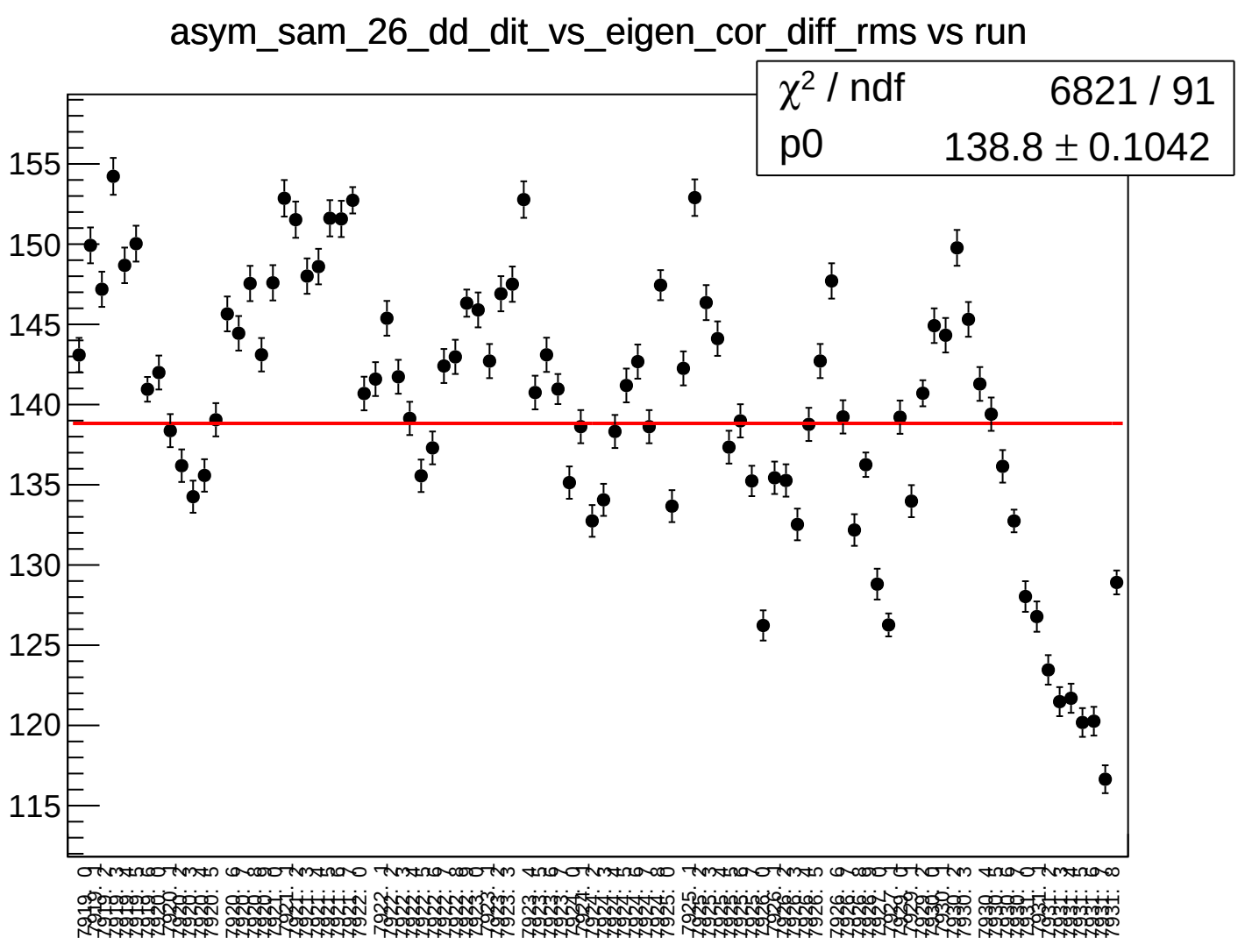

asym_sam_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.132e+06 / 91
p0 3.147e−10 ± 3.899e−13
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

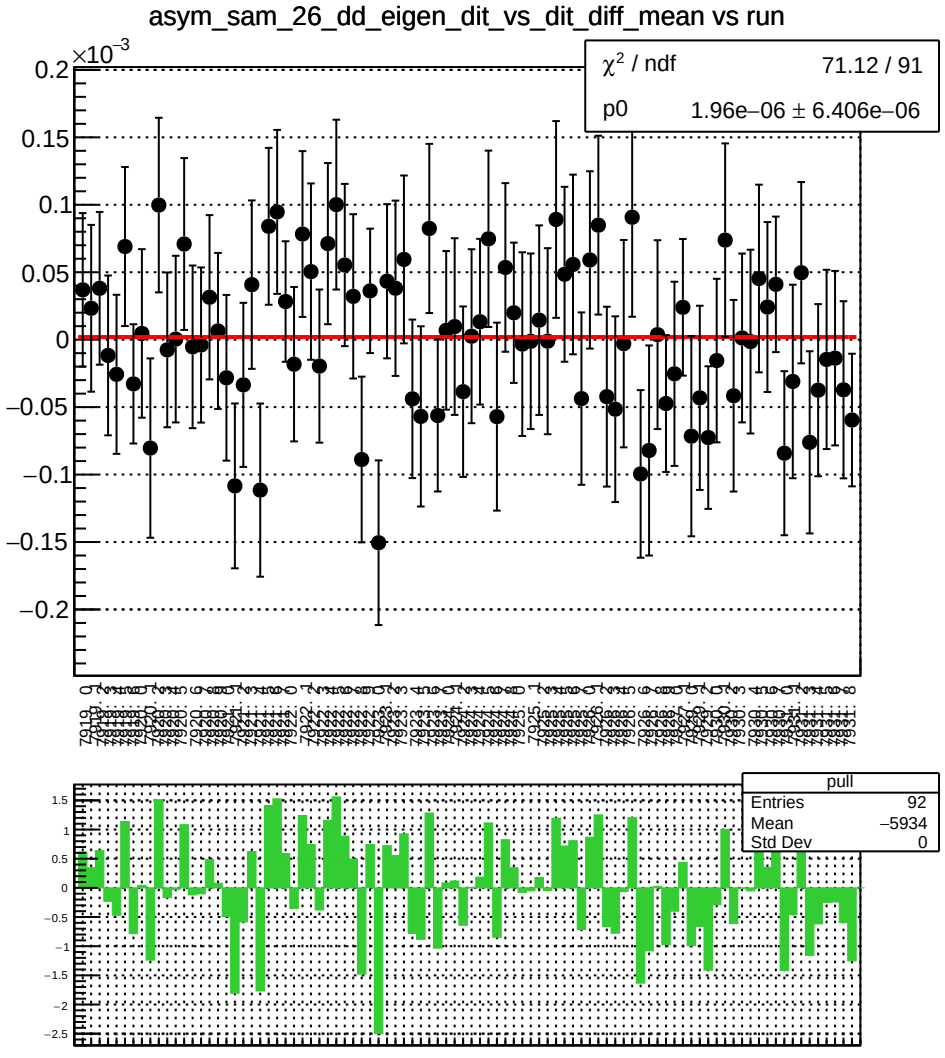

asym_sam_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 107.2 / 91
p0 0.004277 ± 0.1473
pull
Entries 92
Mean −99.37
Std Dev 0
pull1D
Entries 92
Mean −0.02802
Std Dev 1.079

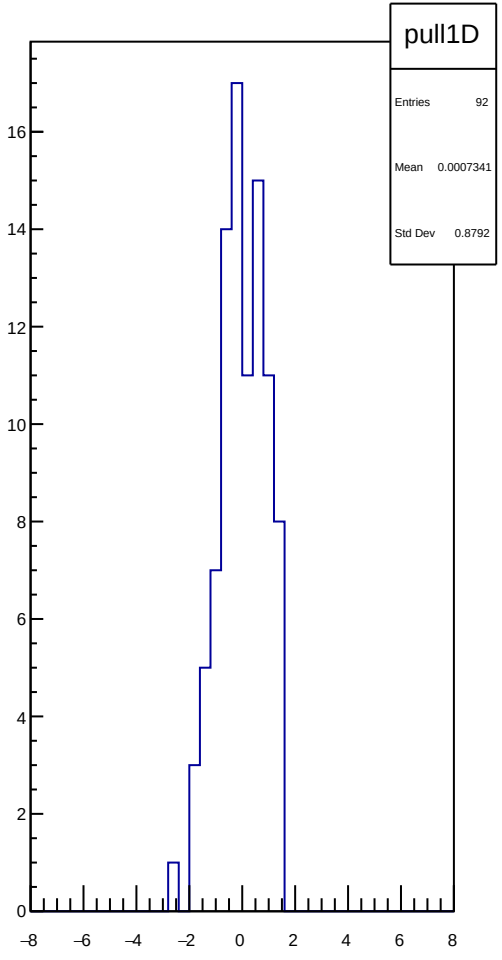

asym_sam_26_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 6821 / 91
p0 138.8 ± 0.1042
155
150
145
140
135
130
125
120
115

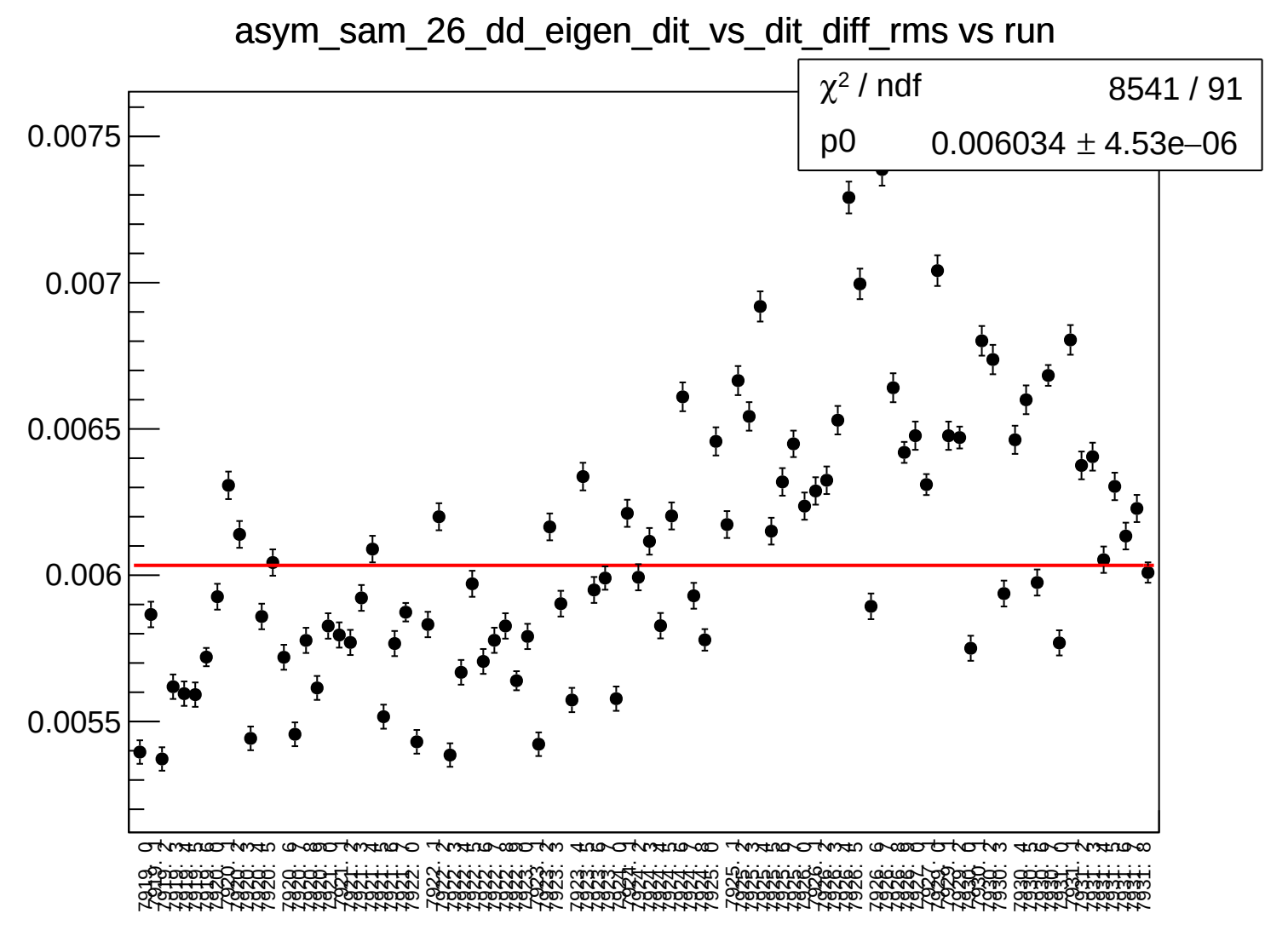

asym_sam_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.2 / 91
p0 0.004277 ± 0.1473
pull
Entries 92
Mean −99.37
Std Dev 0

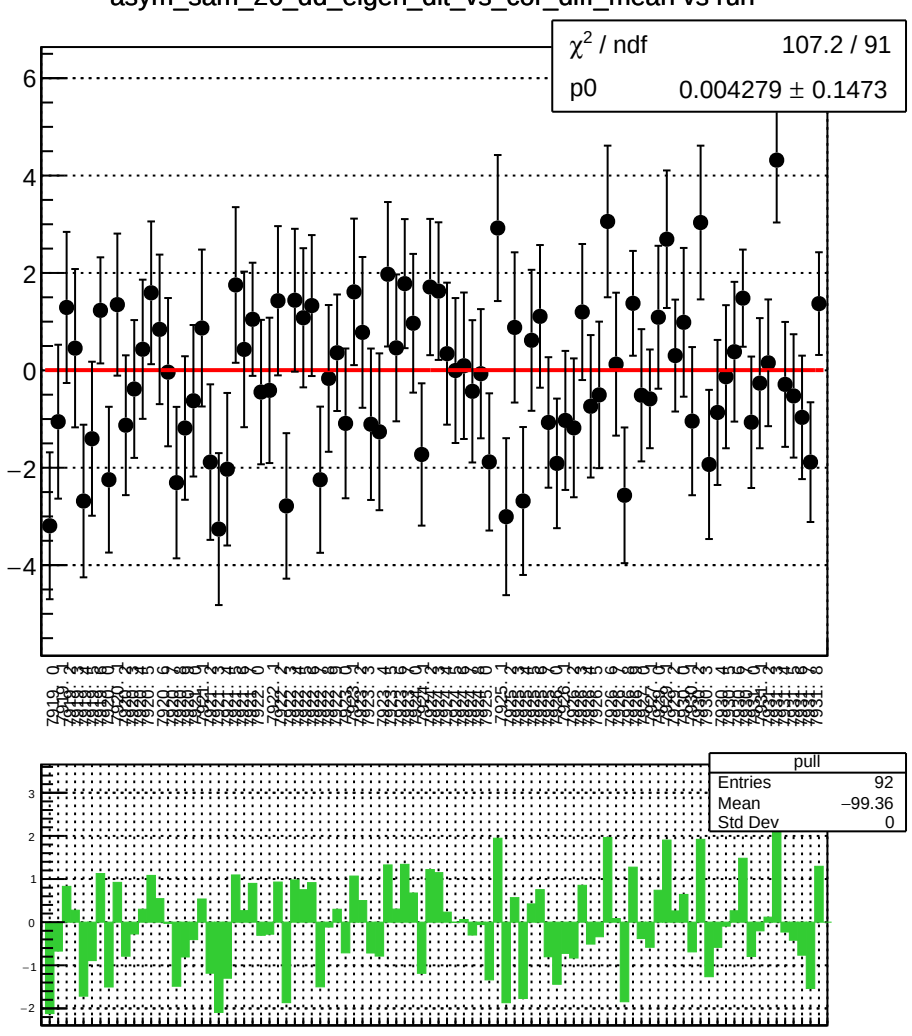

pull1D
Entries 92
Mean −0.02802
Std Dev 1.079

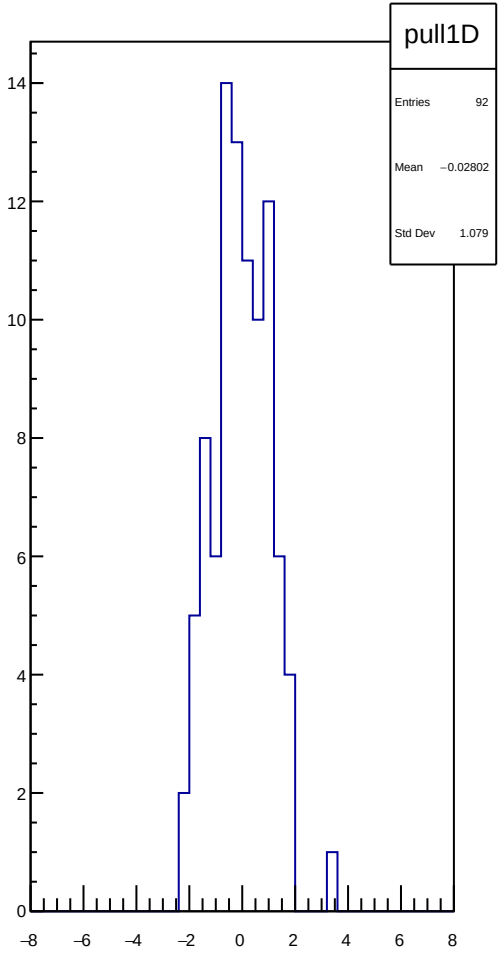

asym_sam_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6821 / 91
p0 138.8 ± 0.1042
155
150
145
140
135
130
125
120
115

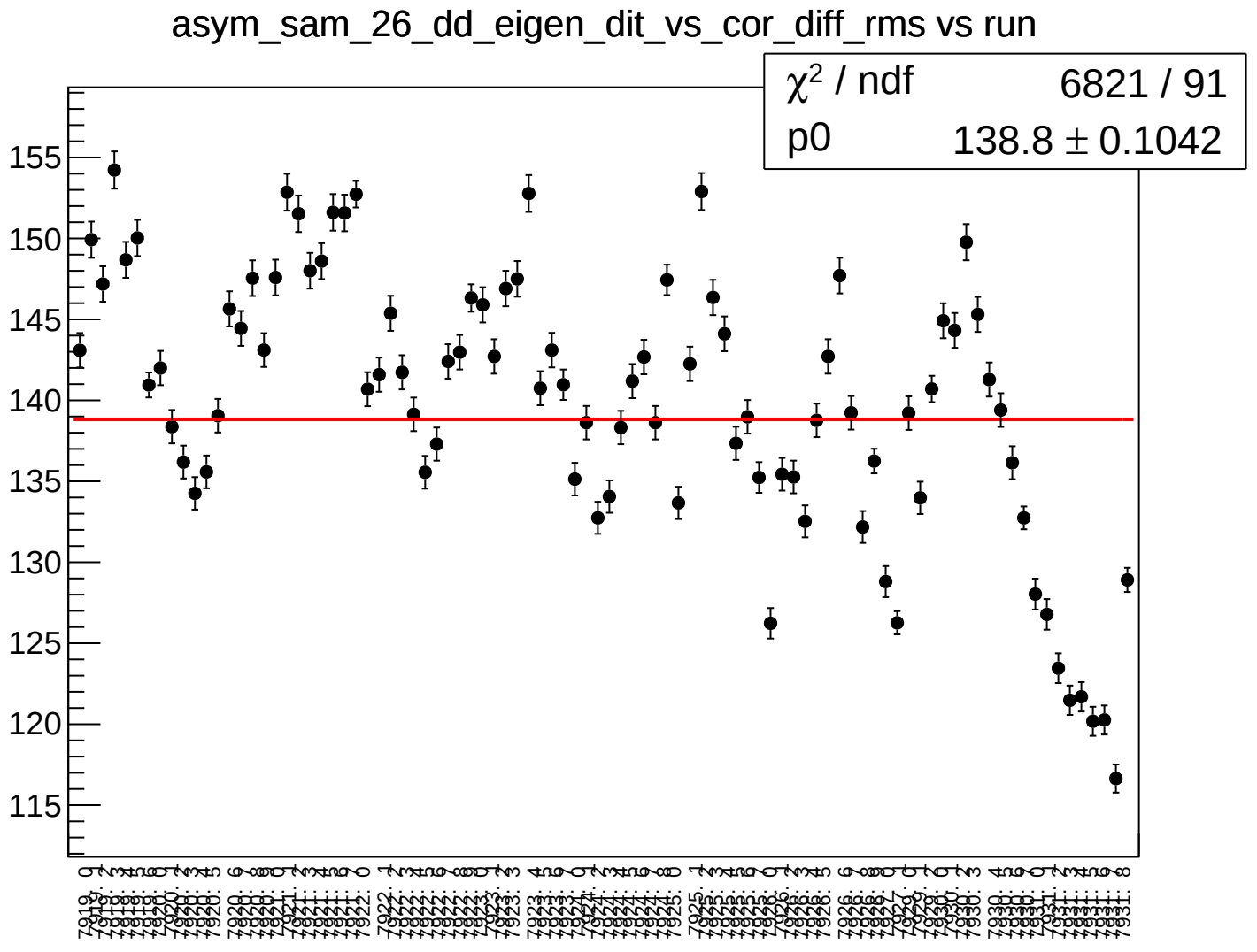

asym_sam_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 71.12 / 91
p0 1.96e−06 ± 6.406e−06
pull
Entries 92
Mean −5934
Std Dev 0

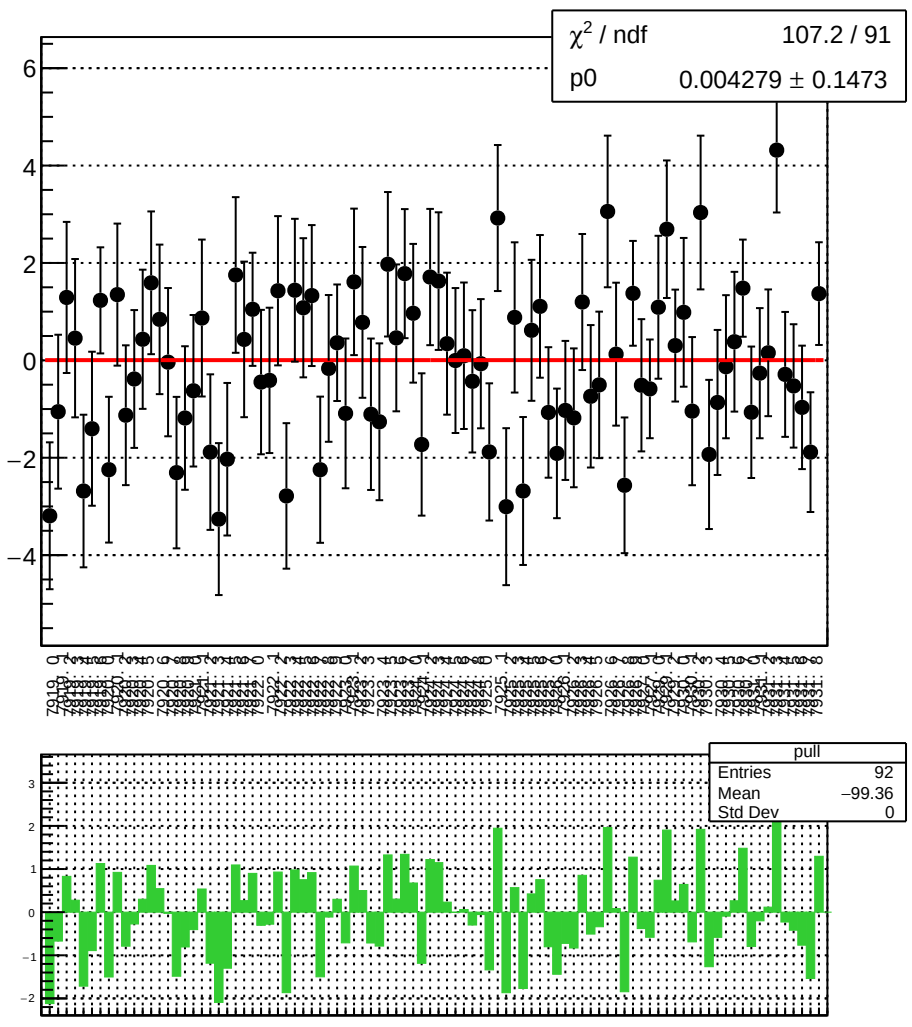

pull1D
Entries 92
Mean 0.0007341
Std Dev 0.8792

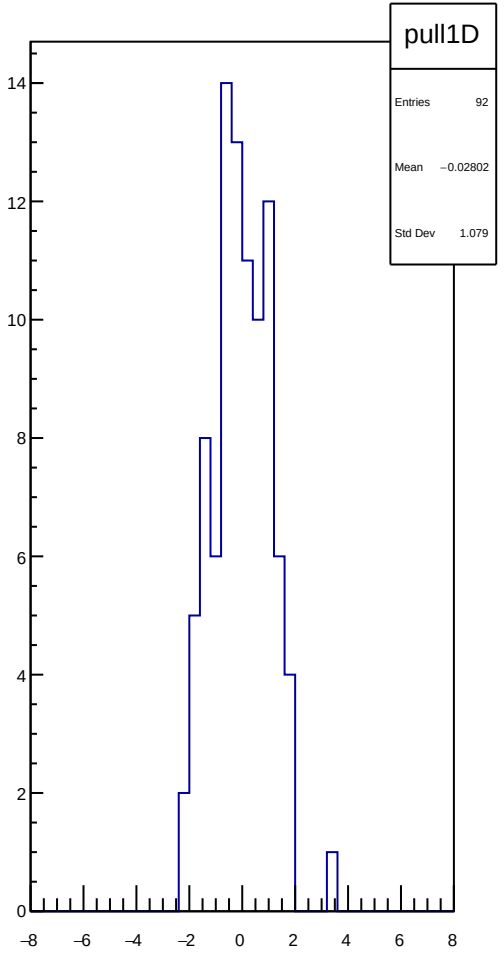

asym_sam_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8541 / 91
p0 0.006034 ± 4.53e−06
0.0075
0.007
0.0065
0.006
0.0055

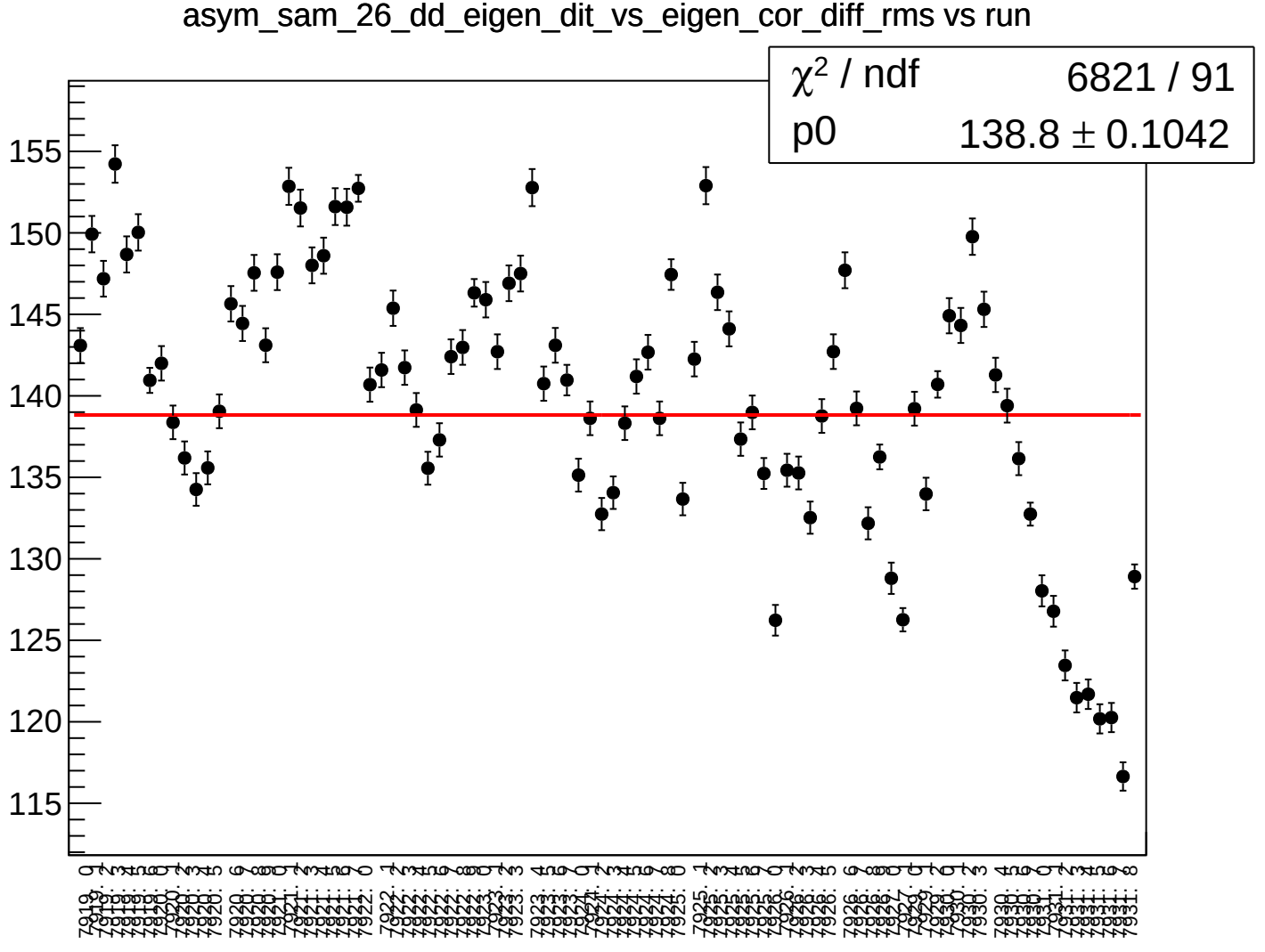

asym_sam_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 107.2 / 91
p0 0.004279 ± 0.1473
pull
Entries 92
Mean −99.36
Std Dev 0

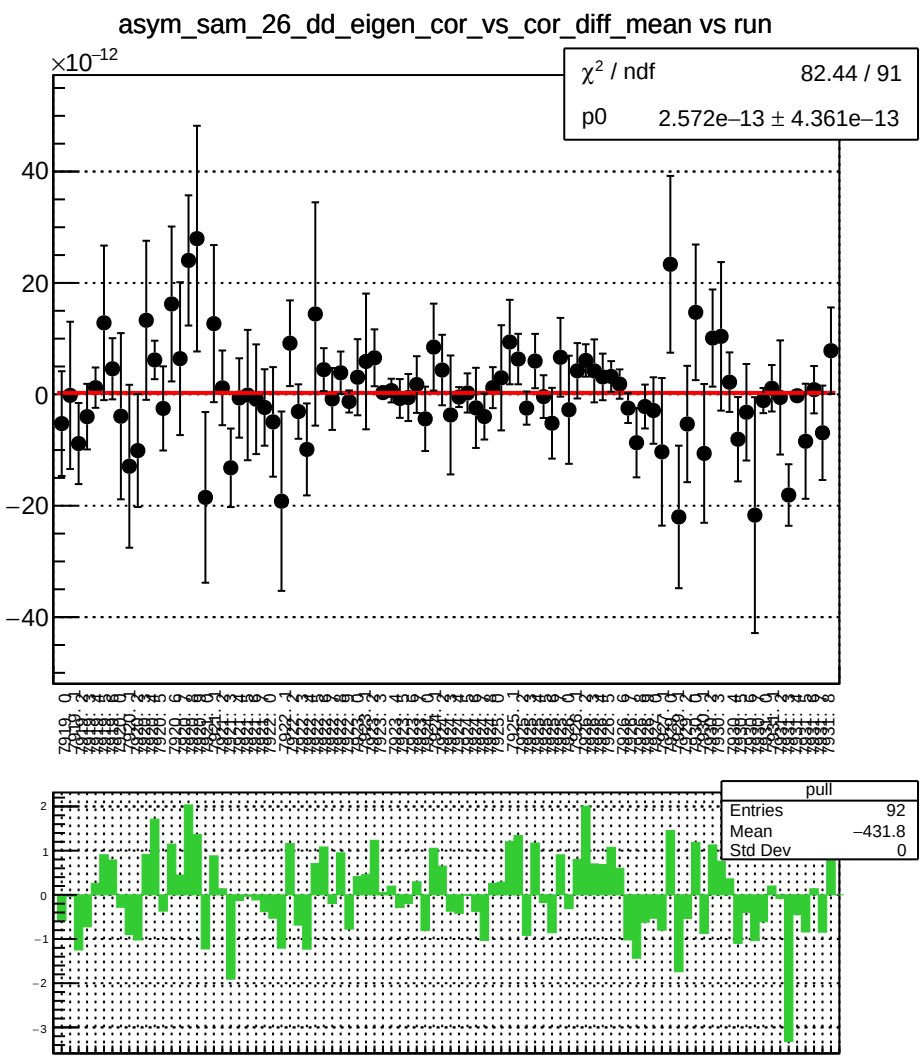

pull1D
Entries 92
Mean −0.02802
Std Dev 1.079

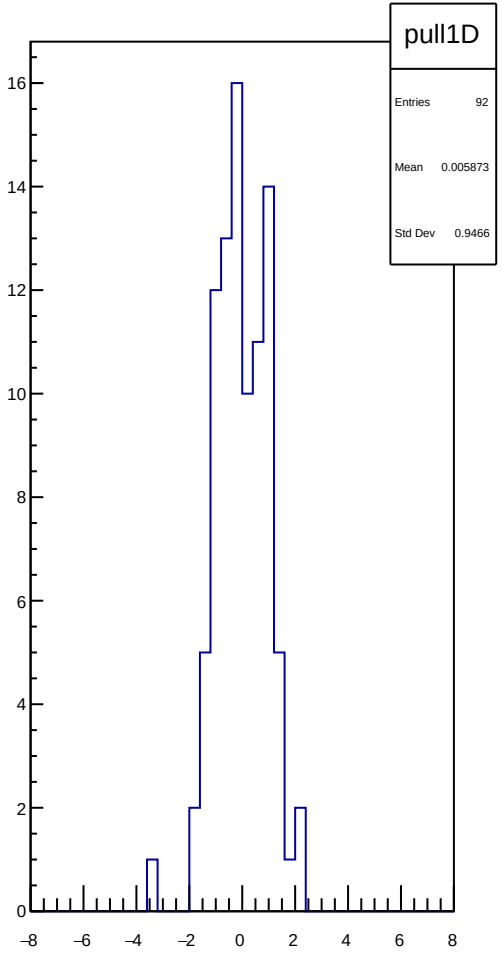

asym_sam_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6821 / 91
p0 138.8 ± 0.1042
155
150
145
140
135
130
125
120
115

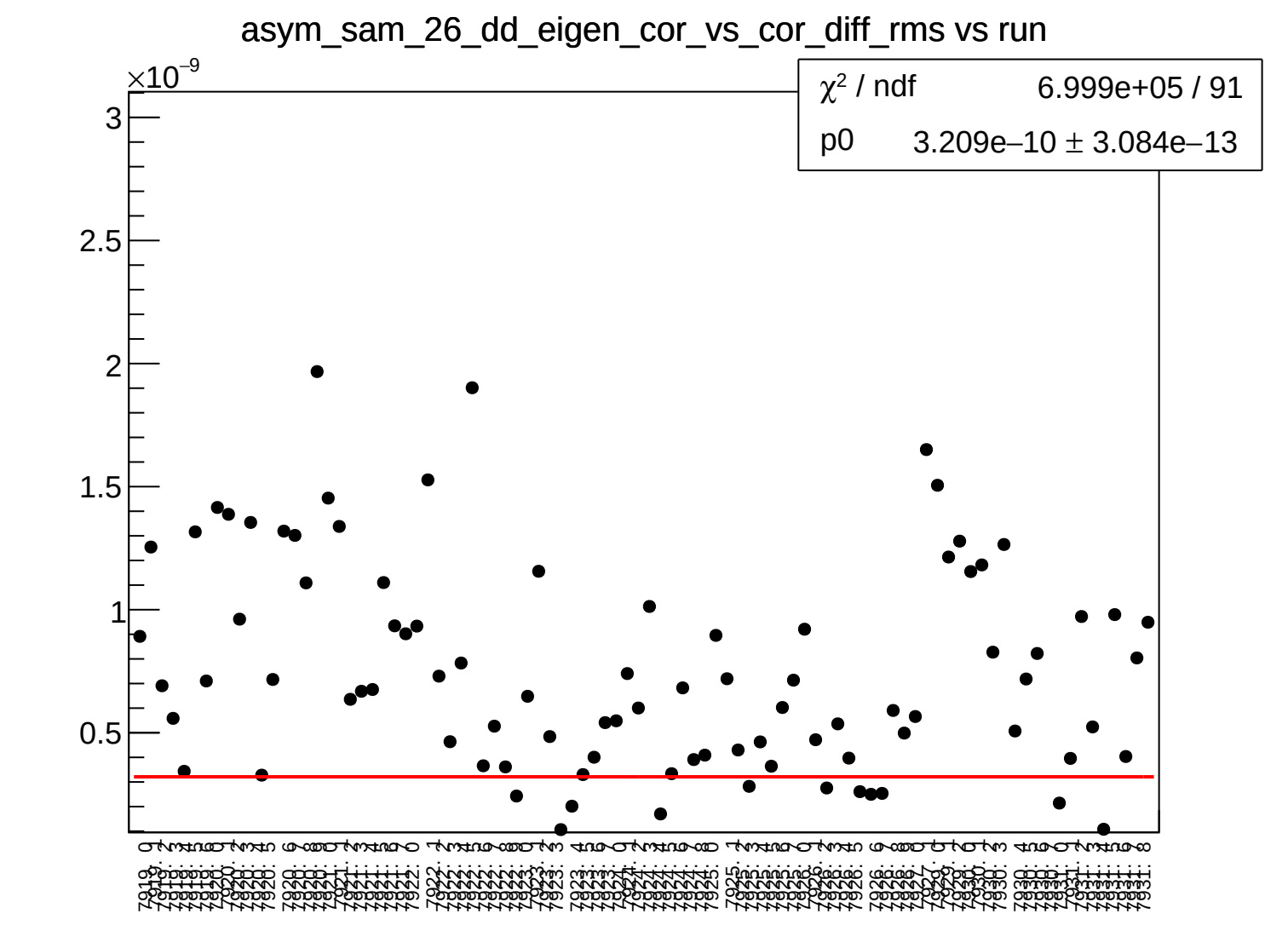

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.2 / 91
p0 0.004279 ± 0.1473
pull
Entries 92
Mean −99.36
Std Dev 0

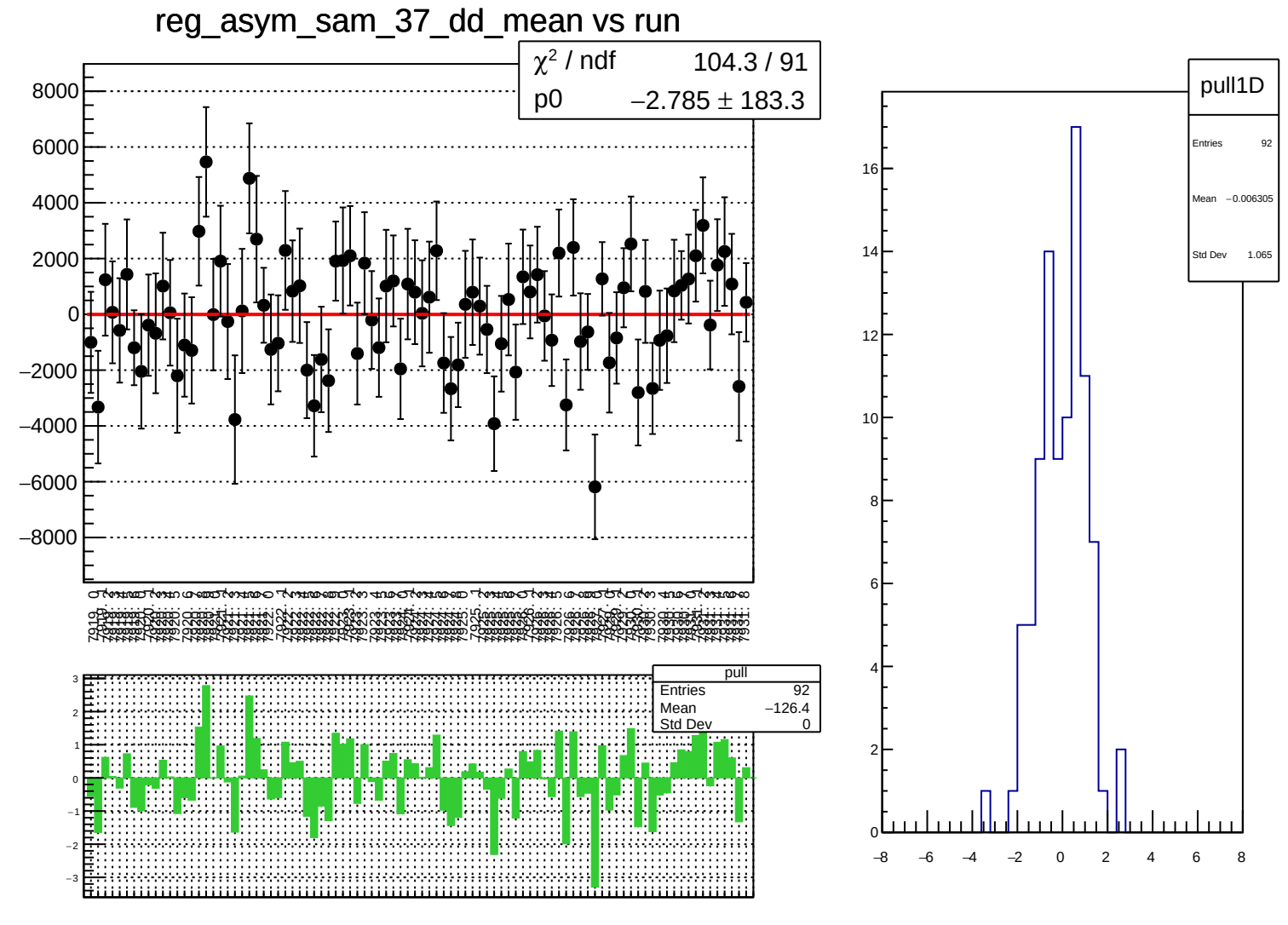

pull1D
Entries 92
Mean −0.02802
Std Dev 1.079

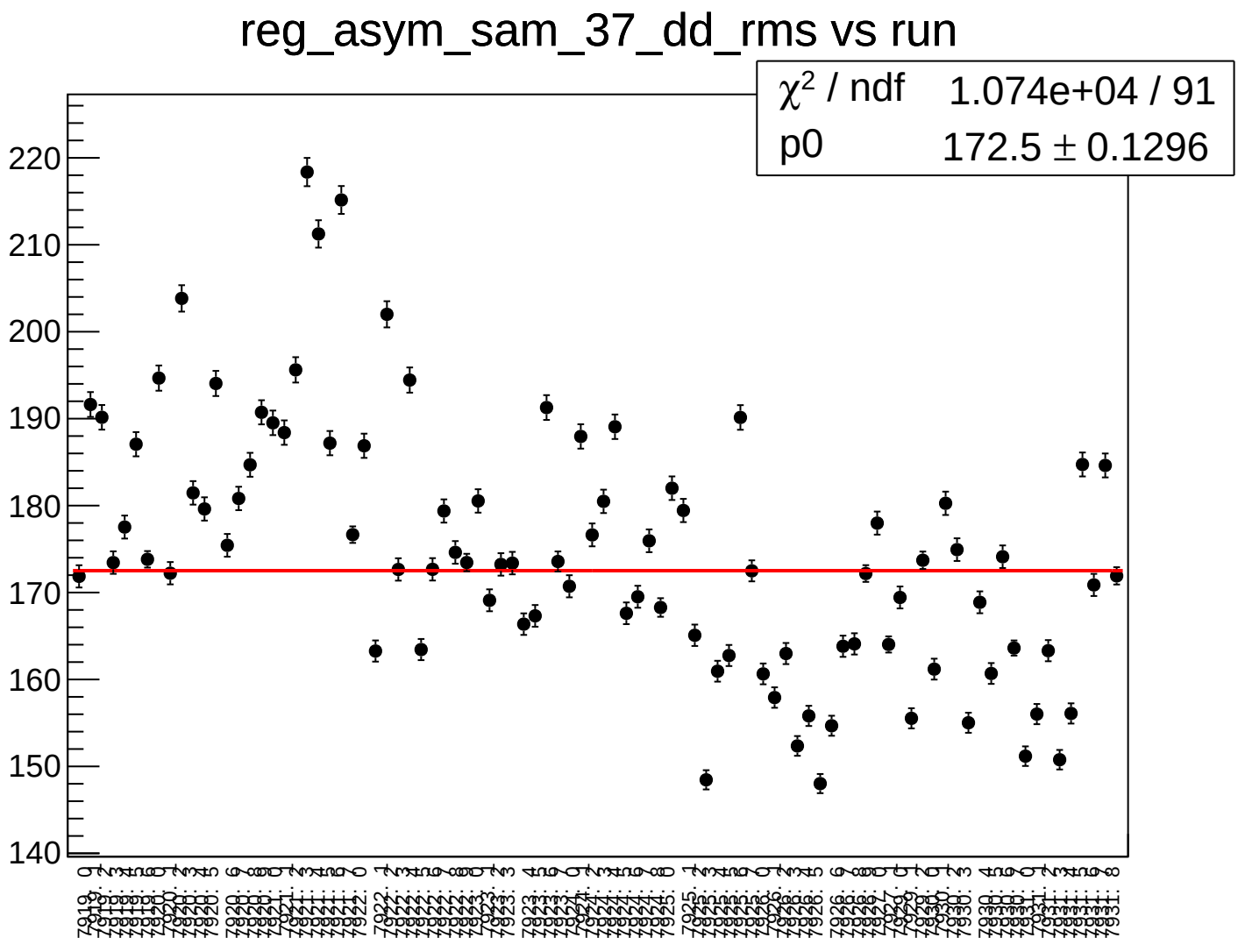

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6821 / 91
p0 138.8 ± 0.1042
155
150
145
140
135
130
125
120
115

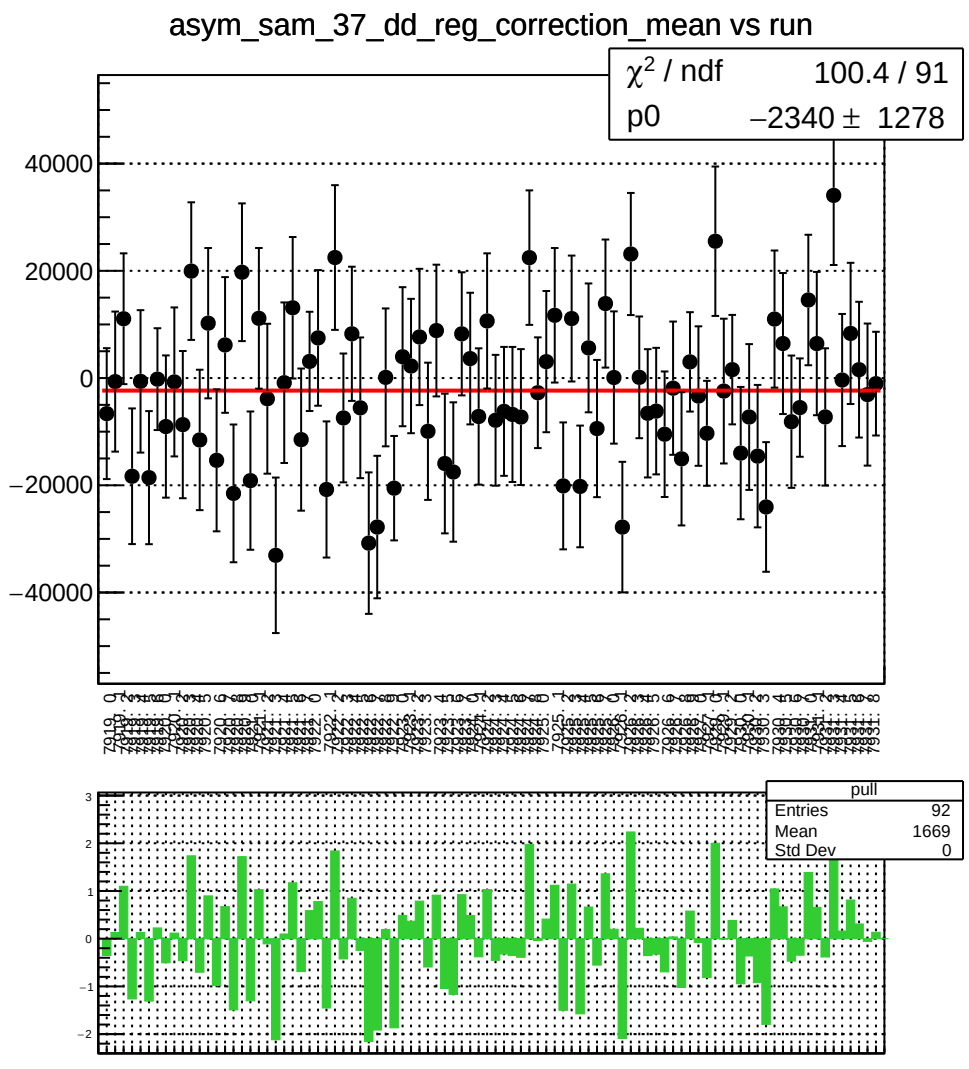

asym_sam_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 82.44 / 91
p0 2.572e−13 ± 4.361e−13
40
20
0
−20
−40
pull
Entries 92
Mean −431.8
Std Dev 0
2
1
0
−1
−2
−3

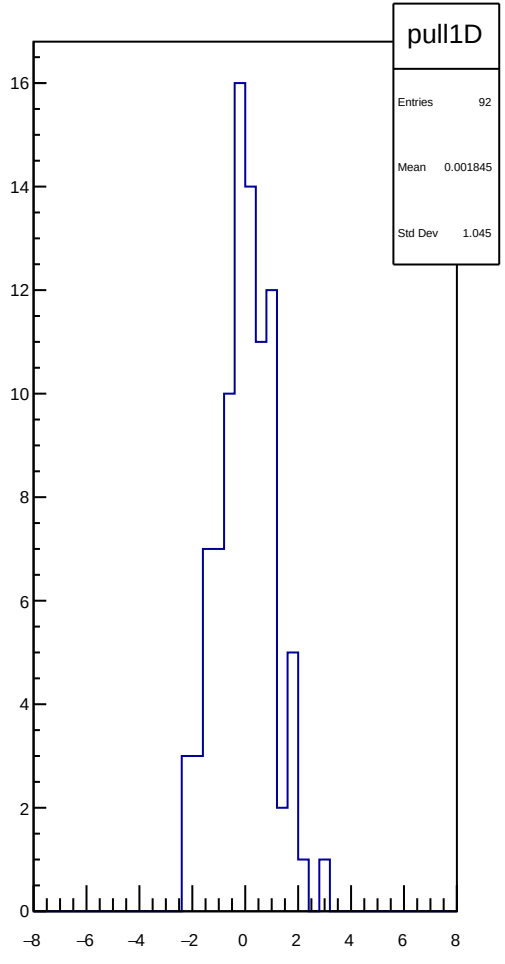

pull1D
Entries 92
Mean 0.005873
Std Dev 0.9466
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

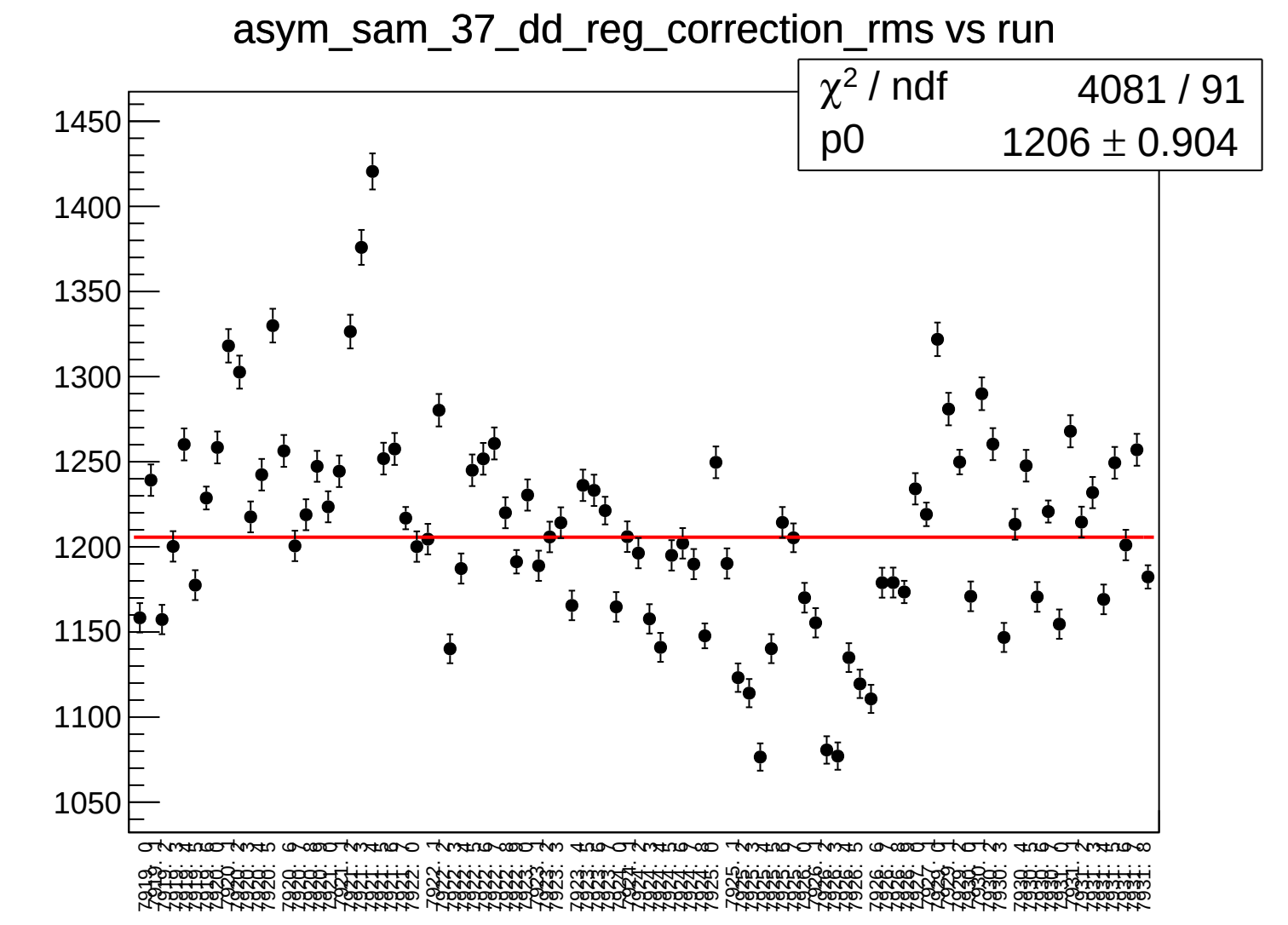

asym_sam_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.999e+05 / 91
p0 3.209e−10 ± 3.084e−13
3
2.5
2
1.5
1
0.5

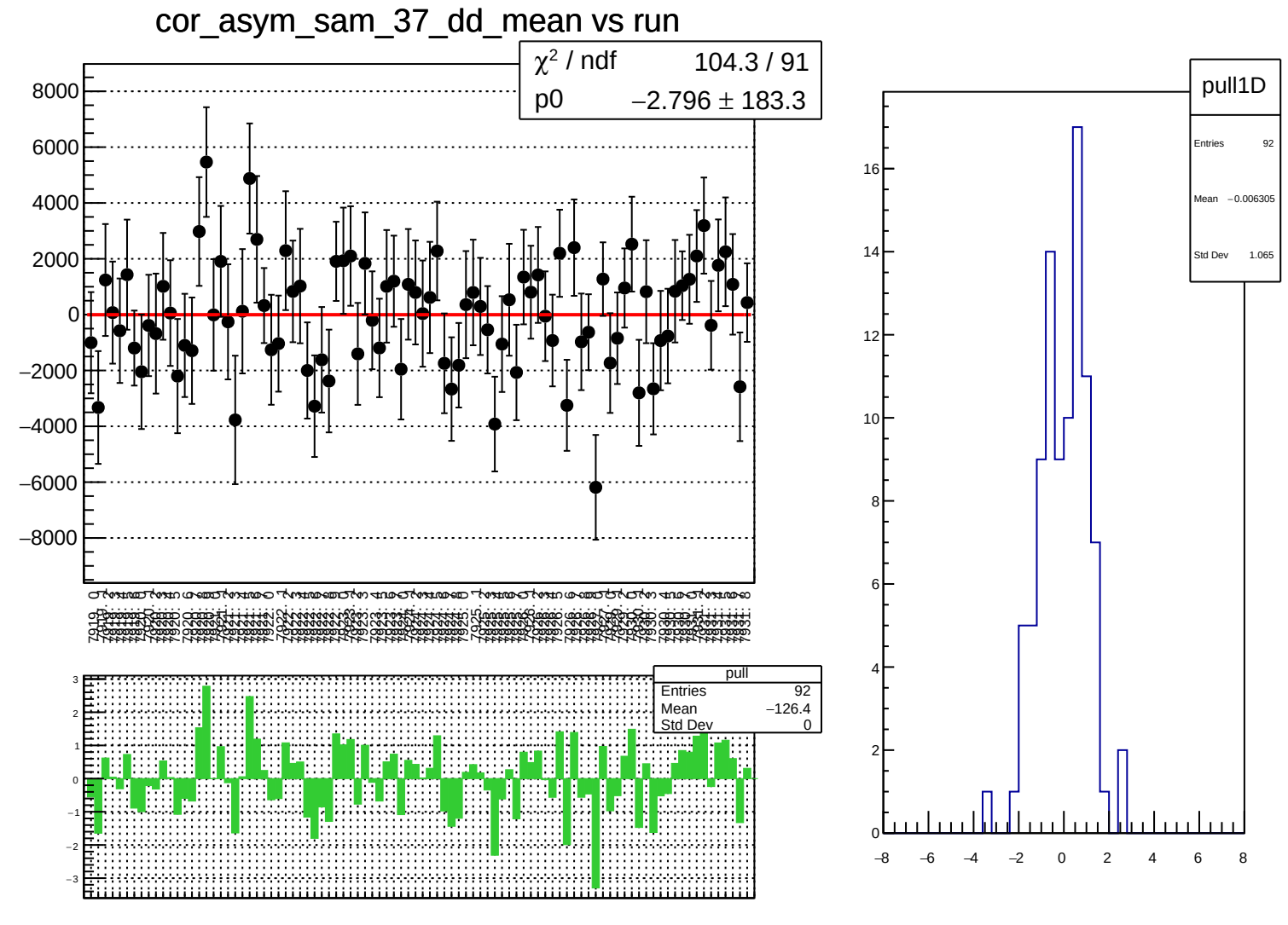

reg_asym_sam_37_dd_mean vs run
χ² / ndf 104.3 / 91
p0 −2.785 ± 183.3
pull
Entries 92
Mean −126.4
Std Dev 0
pull1D
Entries 92
Mean −0.006305
Std Dev 1.065

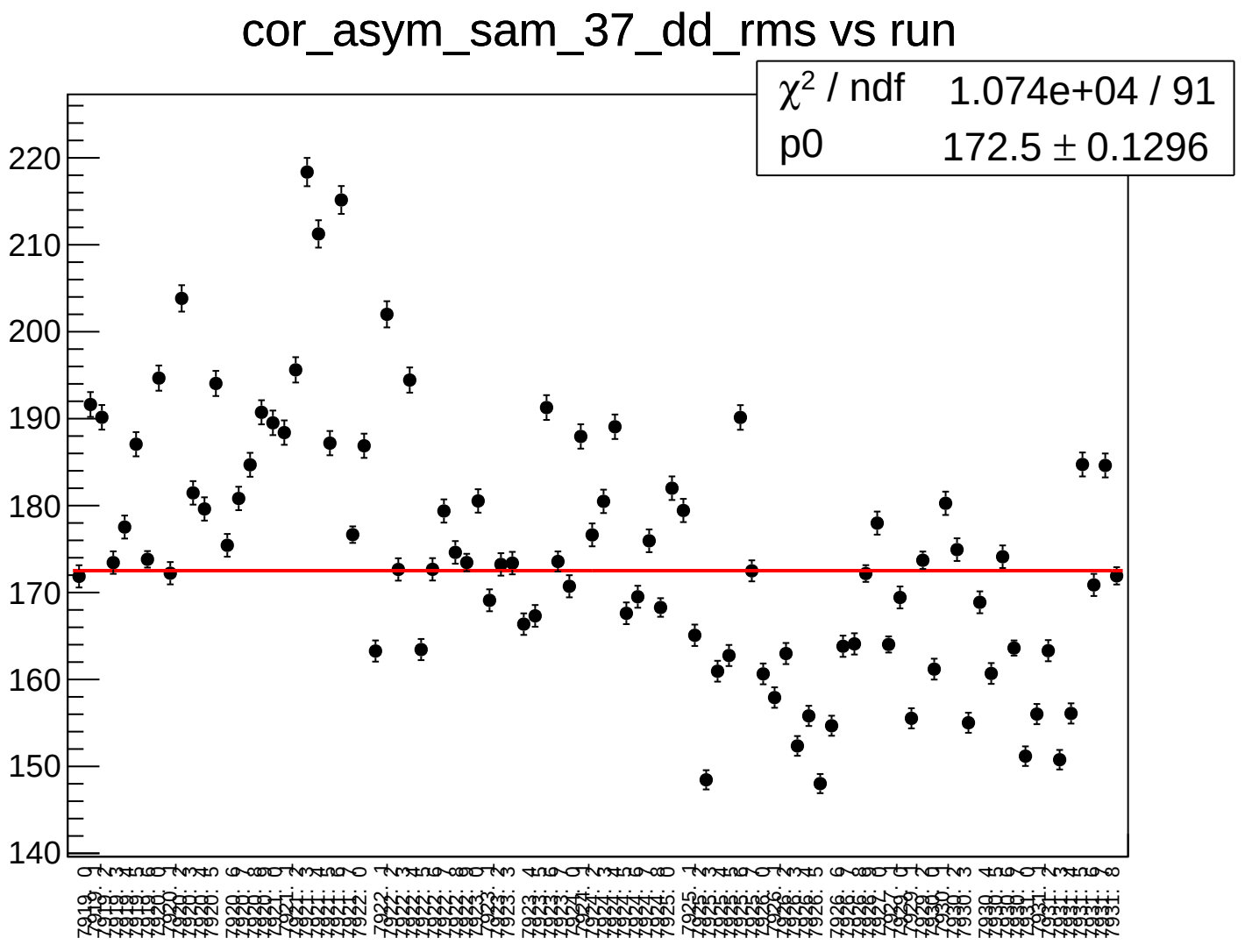

reg_asym_sam_37_dd_rms vs run
χ² / ndf 1.074e+04 / 91
p0 172.5 ± 0.1296
220
210
200
190
180
170
160
150
140

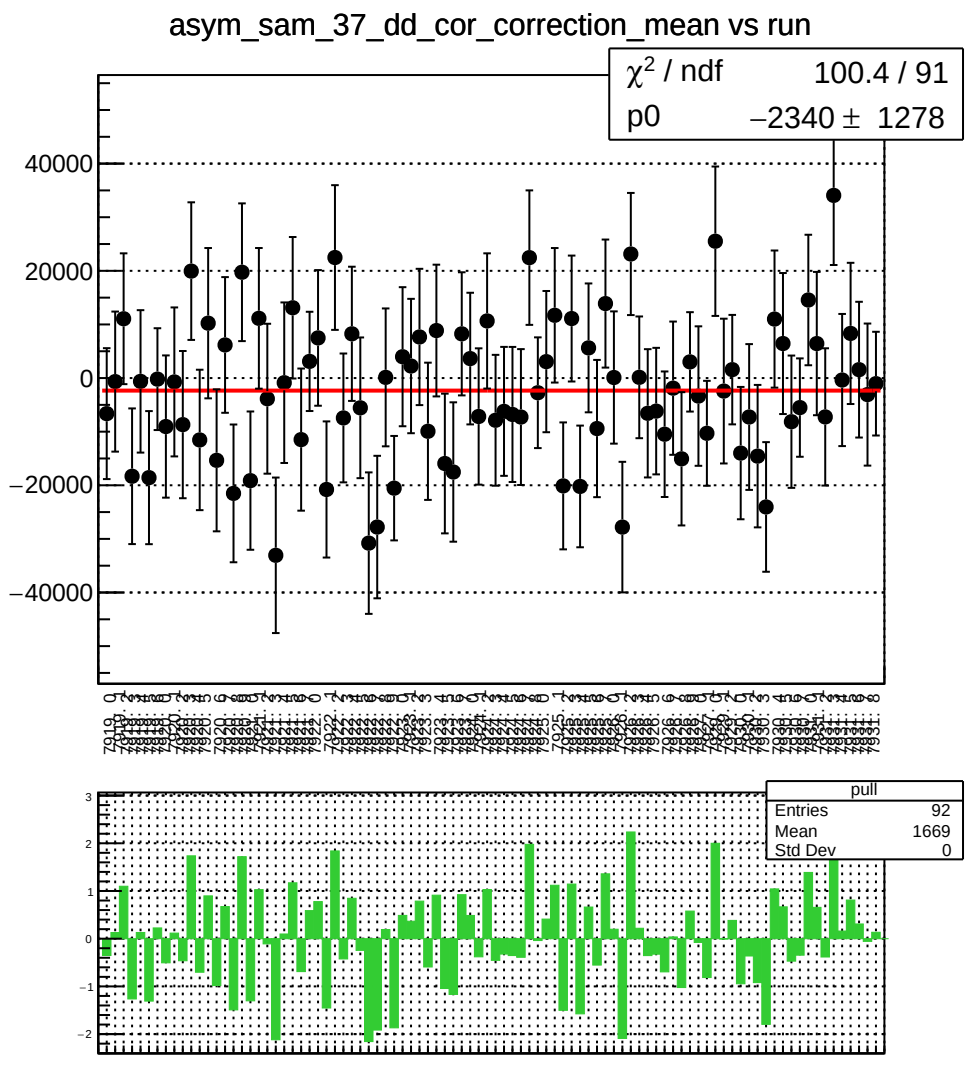

asym_sam_37_dd_reg_correction_mean vs run
χ² / ndf 100.4 / 91
p0 −2340 ± 1278
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 1669
Std Dev 0
3
2
1
0
−1
−2

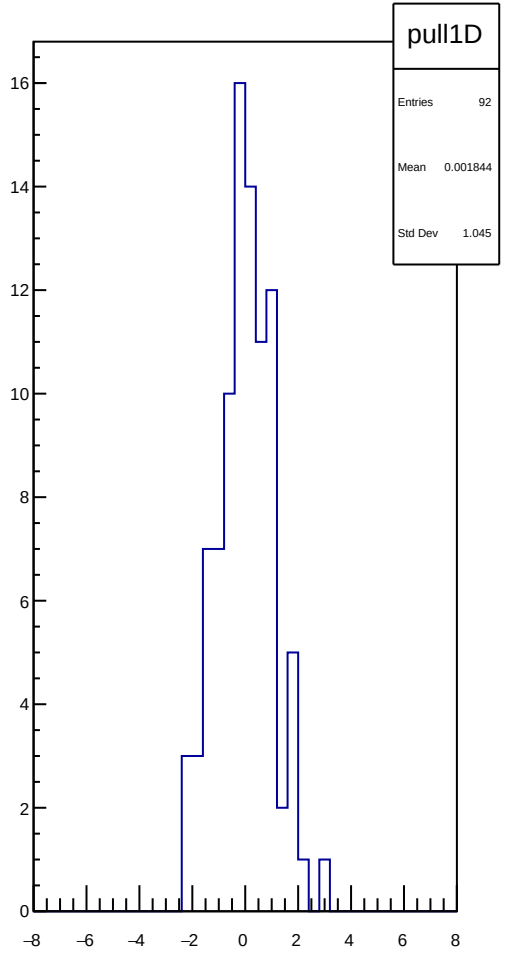

pull1D
Entries 92
Mean 0.001845
Std Dev 1.045
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

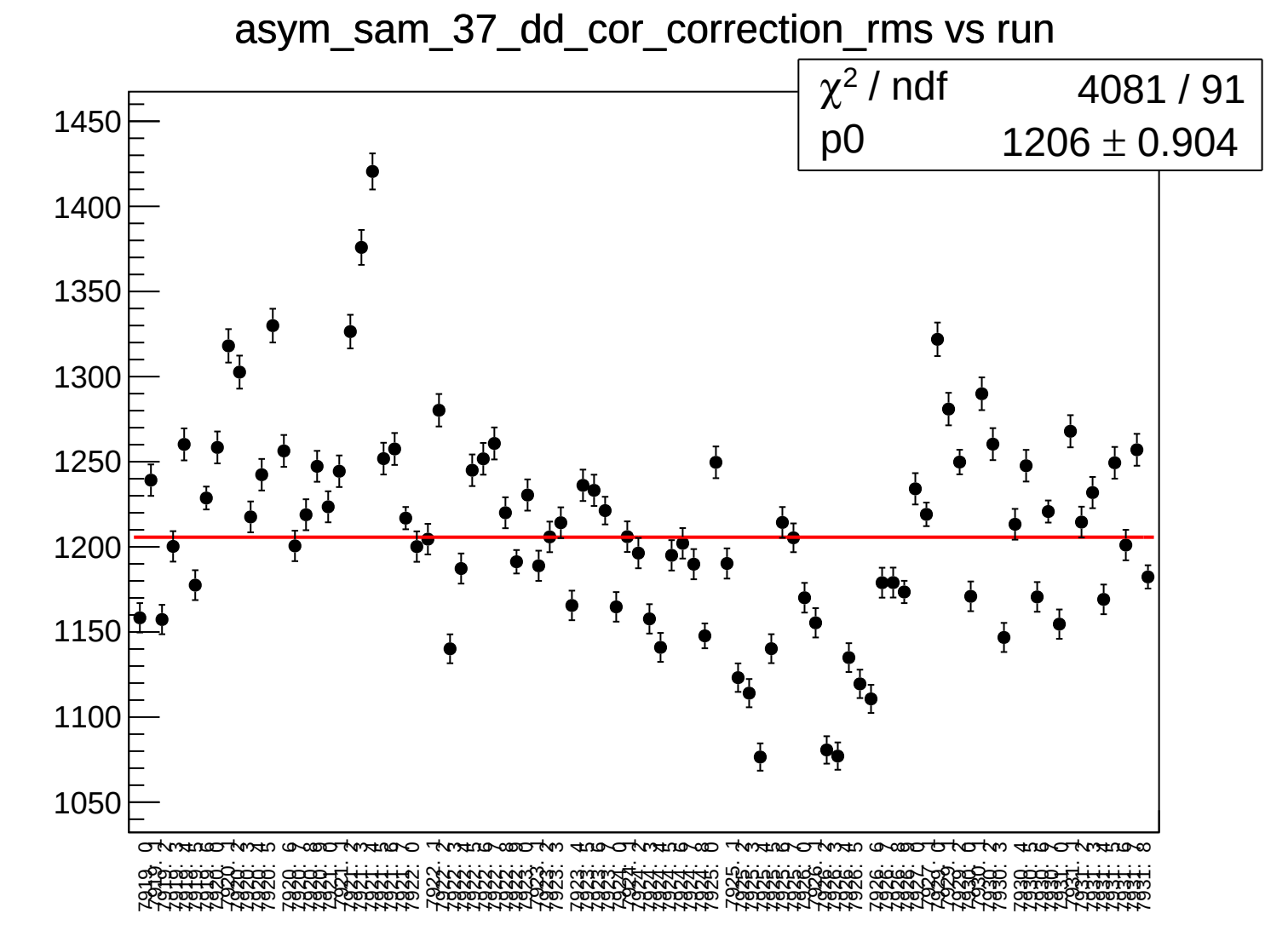

asym_sam_37_dd_reg_correction_rms vs run
χ² / ndf 4081 / 91
p0 1206 ± 0.904
1450
1400
1350
1300
1250
1200
1150
1100
1050

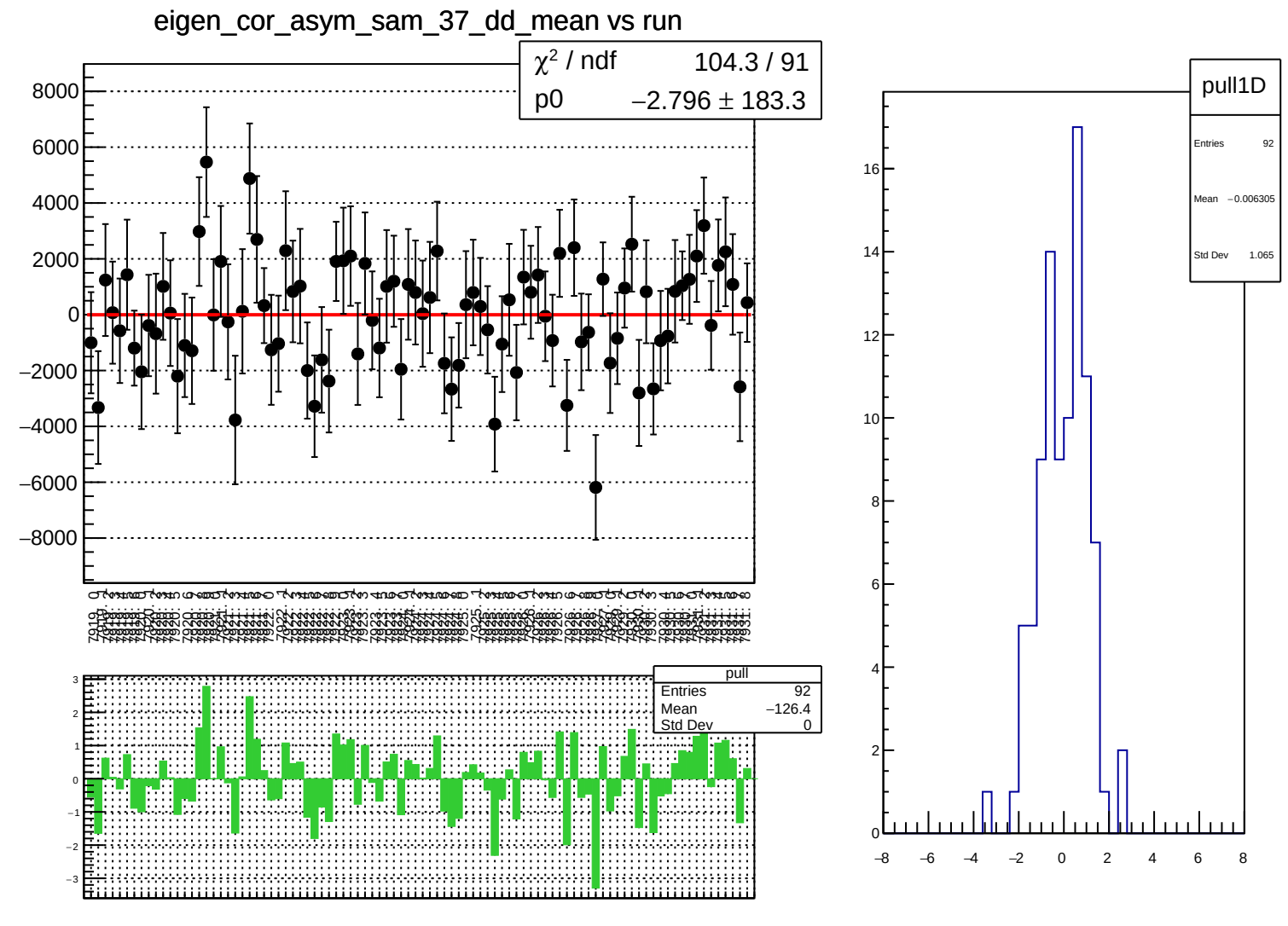

cor_asym_sam_37_dd_mean vs run
χ² / ndf 104.3 / 91
p0 −2.796 ± 183.3
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 92
Mean −126.4
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.006305
Std Dev 1.065
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

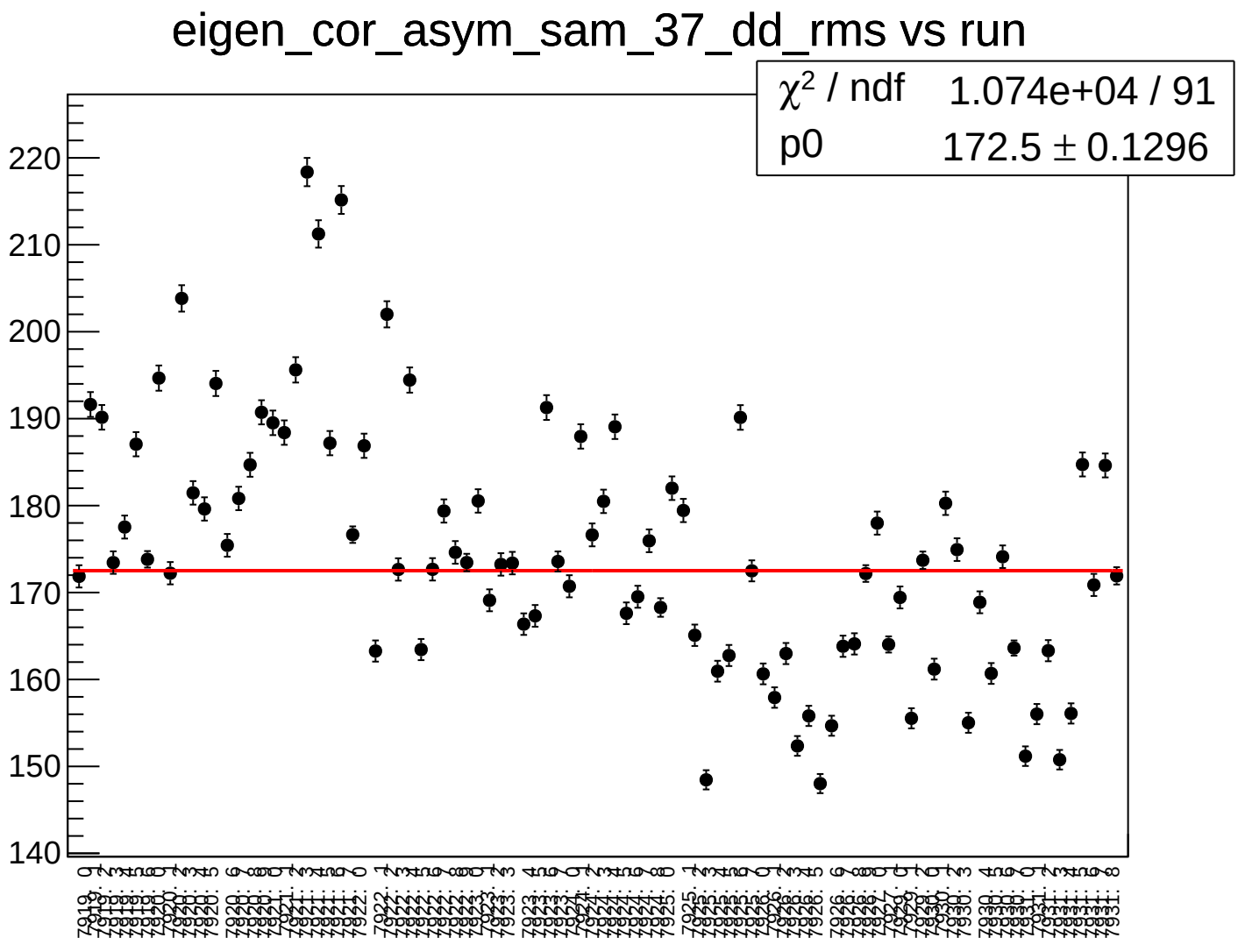

cor_asym_sam_37_dd_rms vs run
χ² / ndf 1.074e+04 / 91
p0 172.5 ± 0.1296
220
210
200
190
180
170
160
150
140

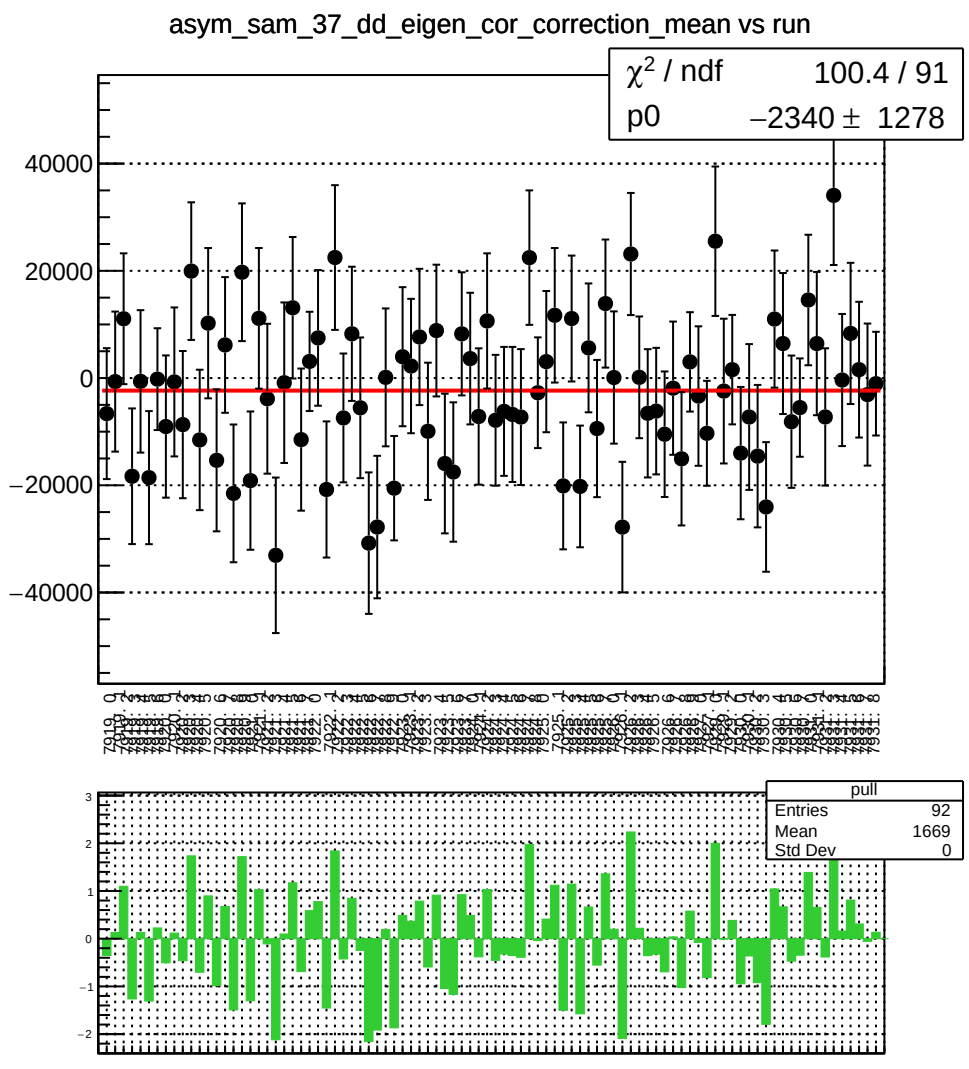

asym_sam_37_dd_cor_correction_mean vs run
χ² / ndf 100.4 / 91
p0 −2340 ± 1278
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 1669
Std Dev 0
3
2
1
0
−1
−2

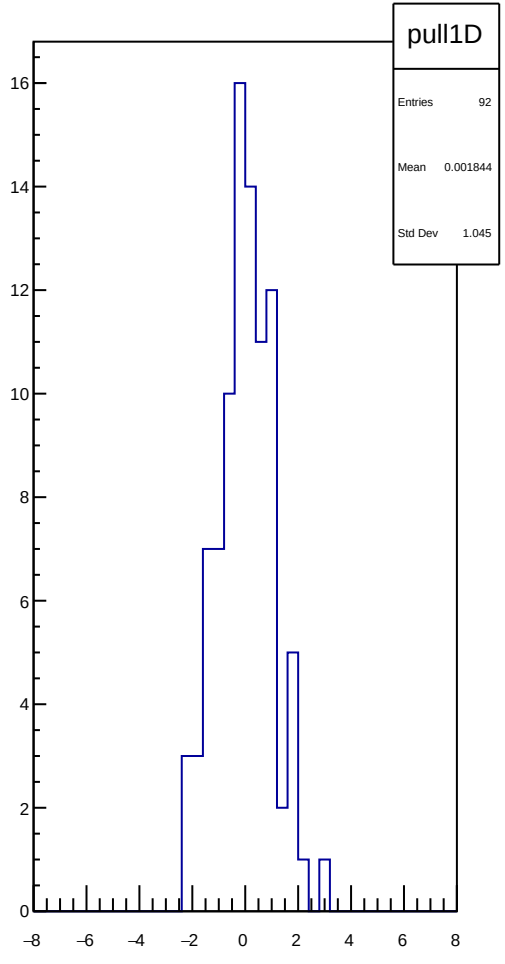

pull1D
Entries 92
Mean 0.001844
Std Dev 1.045
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

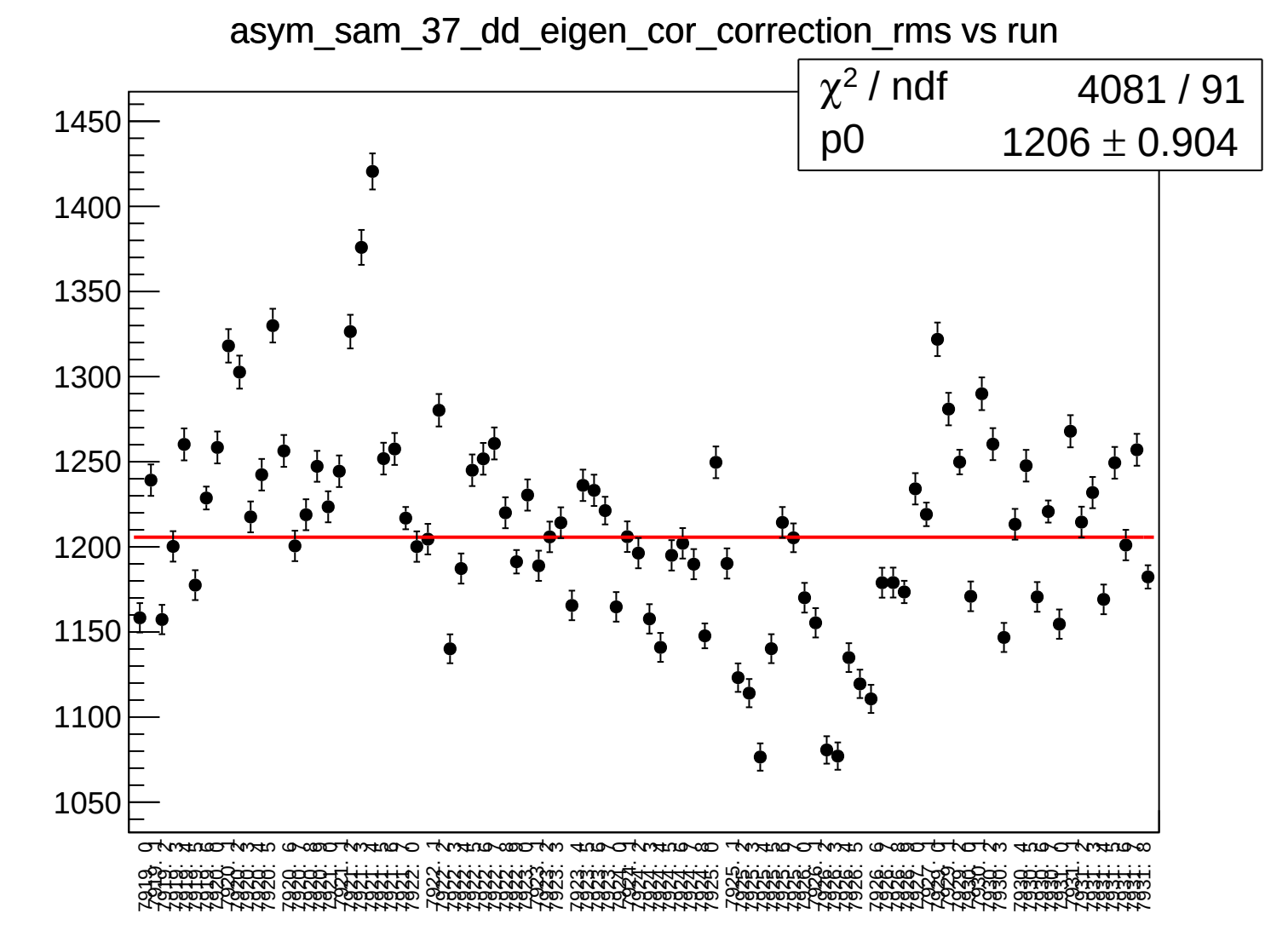

asym_sam_37_dd_cor_correction_rms vs run
χ² / ndf 4081 / 91
p0 1206 ± 0.904
1450
1400
1350
1300
1250
1200
1150
1100
1050

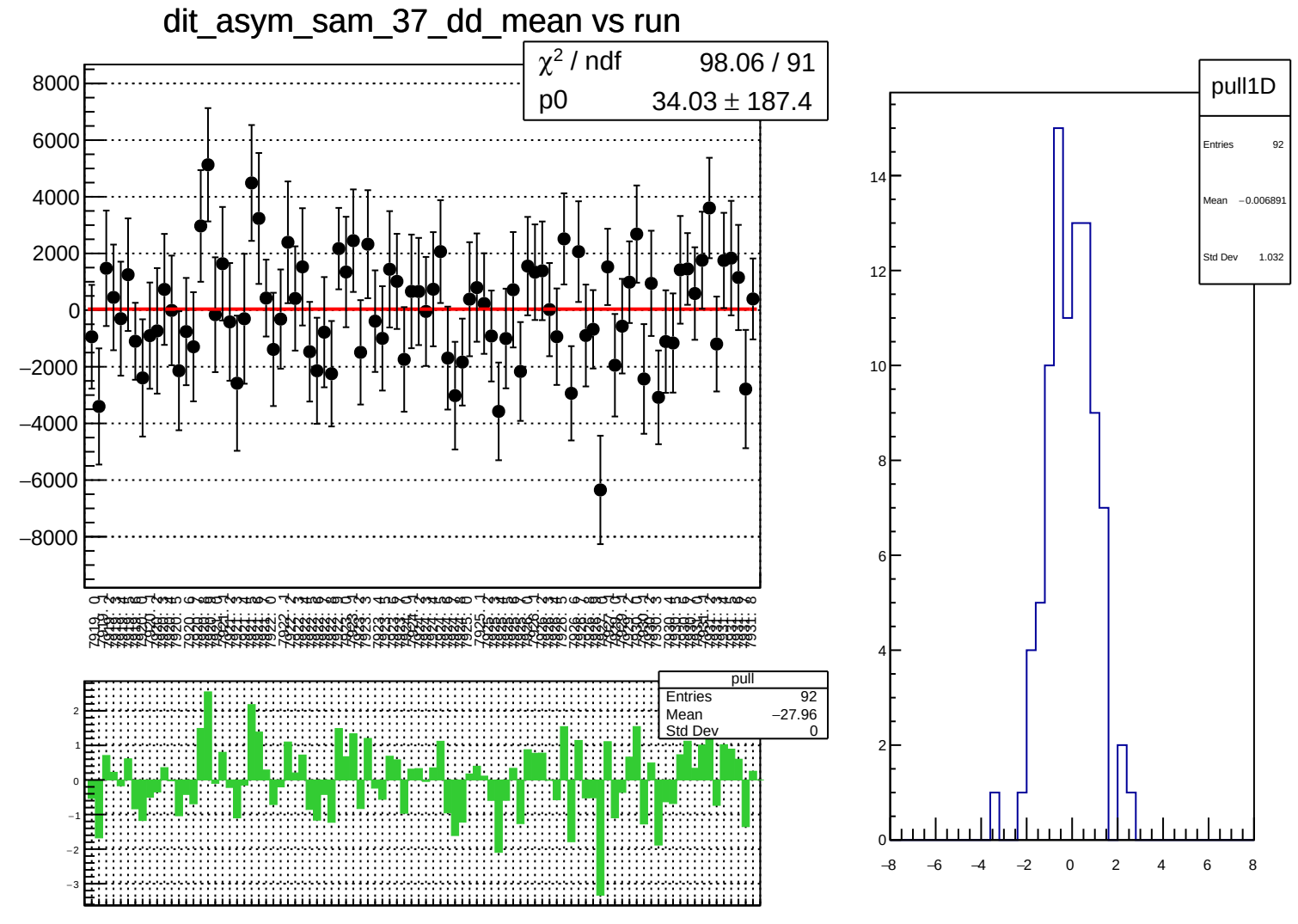

eigen_cor_asym_sam_37_dd_mean vs run
χ² / ndf 104.3 / 91
p0 −2.796 ± 183.3
pull
Entries 92
Mean −126.4
Std Dev 0
pull1D
Entries 92
Mean −0.006305
Std Dev 1.065

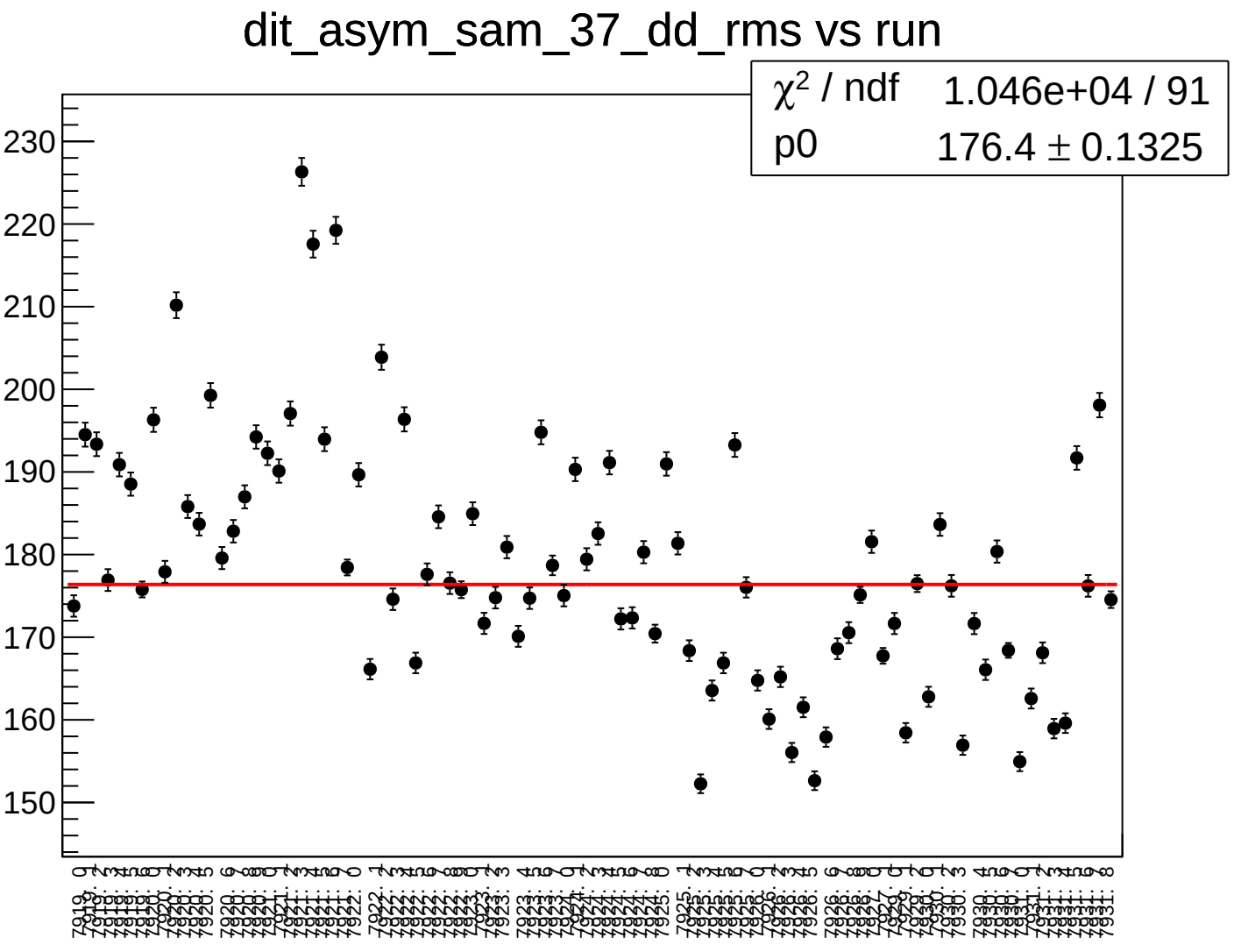

eigen_cor_asym_sam_37_dd_rms vs run
χ² / ndf 1.074e+04 / 91
p0 172.5 ± 0.1296
220
210
200
190
180
170
160
150
140

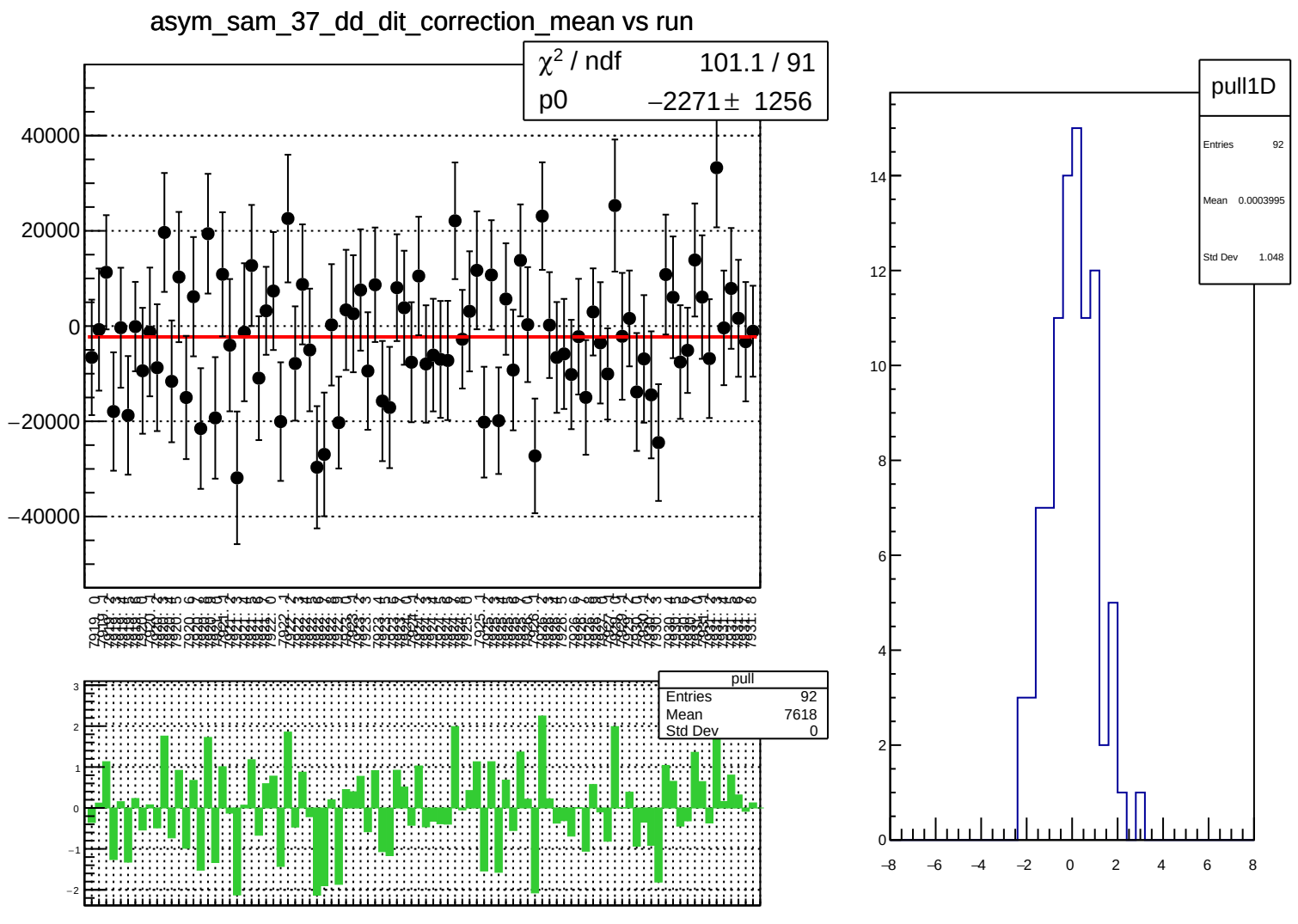

asym_sam_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 100.4 / 91
p0 −2340 ± 1278
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 1669
Std Dev 0
3
2
1
0
−1
−2

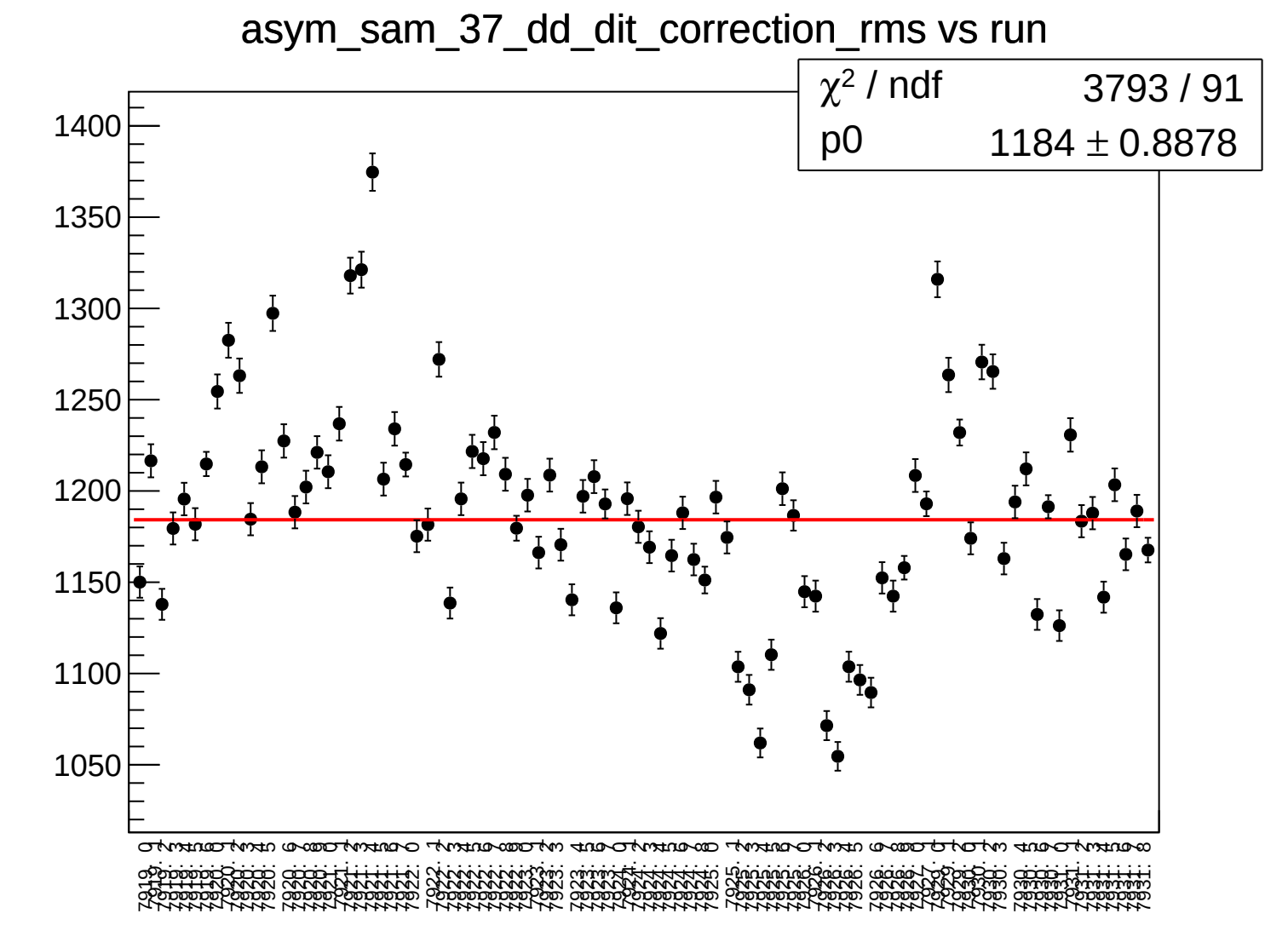

pull1D
Entries 92
Mean 0.001844
Std Dev 1.045
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

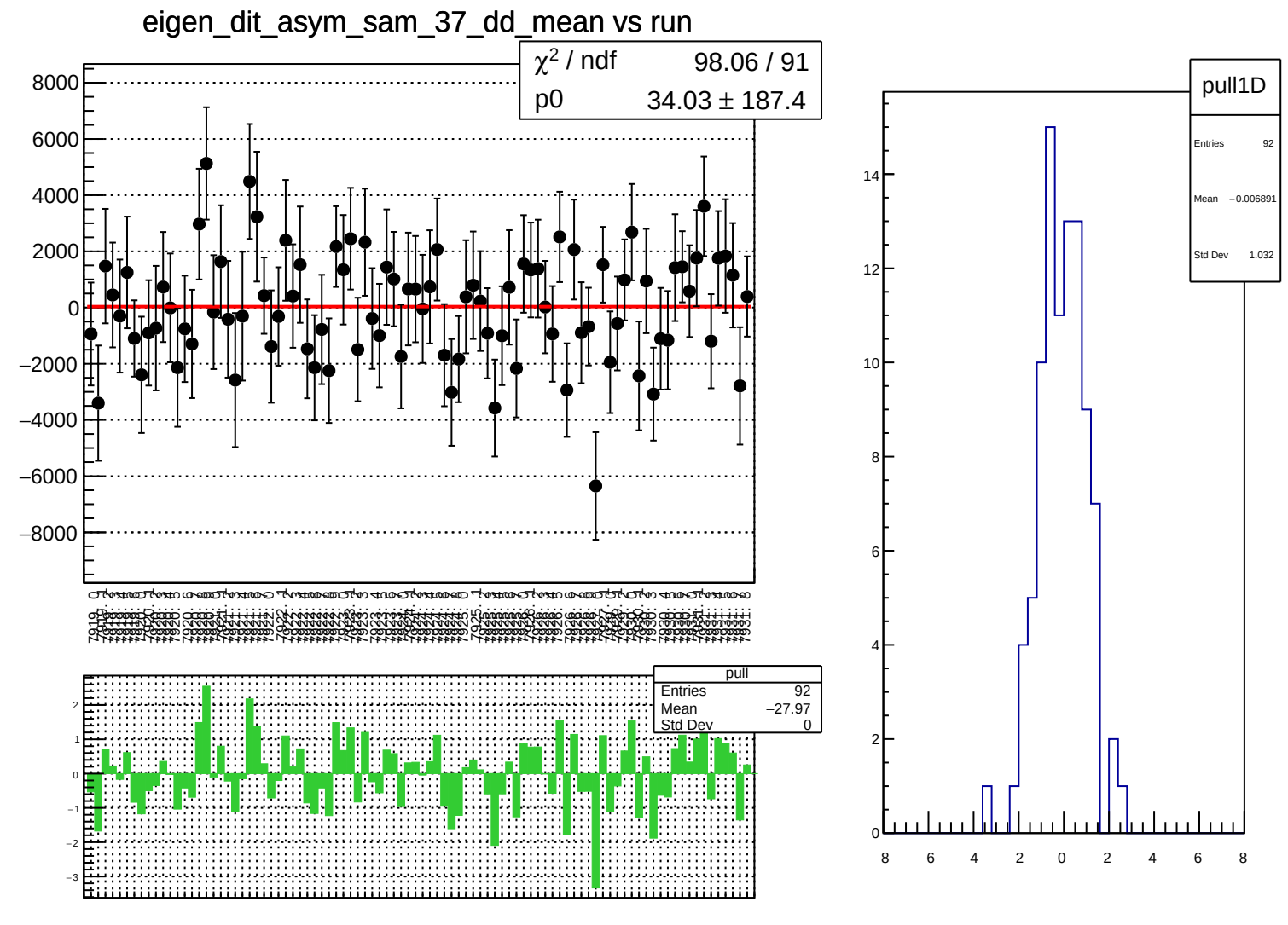

asym_sam_37_dd_eigen_cor_correction_rms vs run
χ^2 / ndf 4081 / 91
p0 1206 ± 0.904
1450
1400
1350
1300
1250
1200
1150
1100
1050

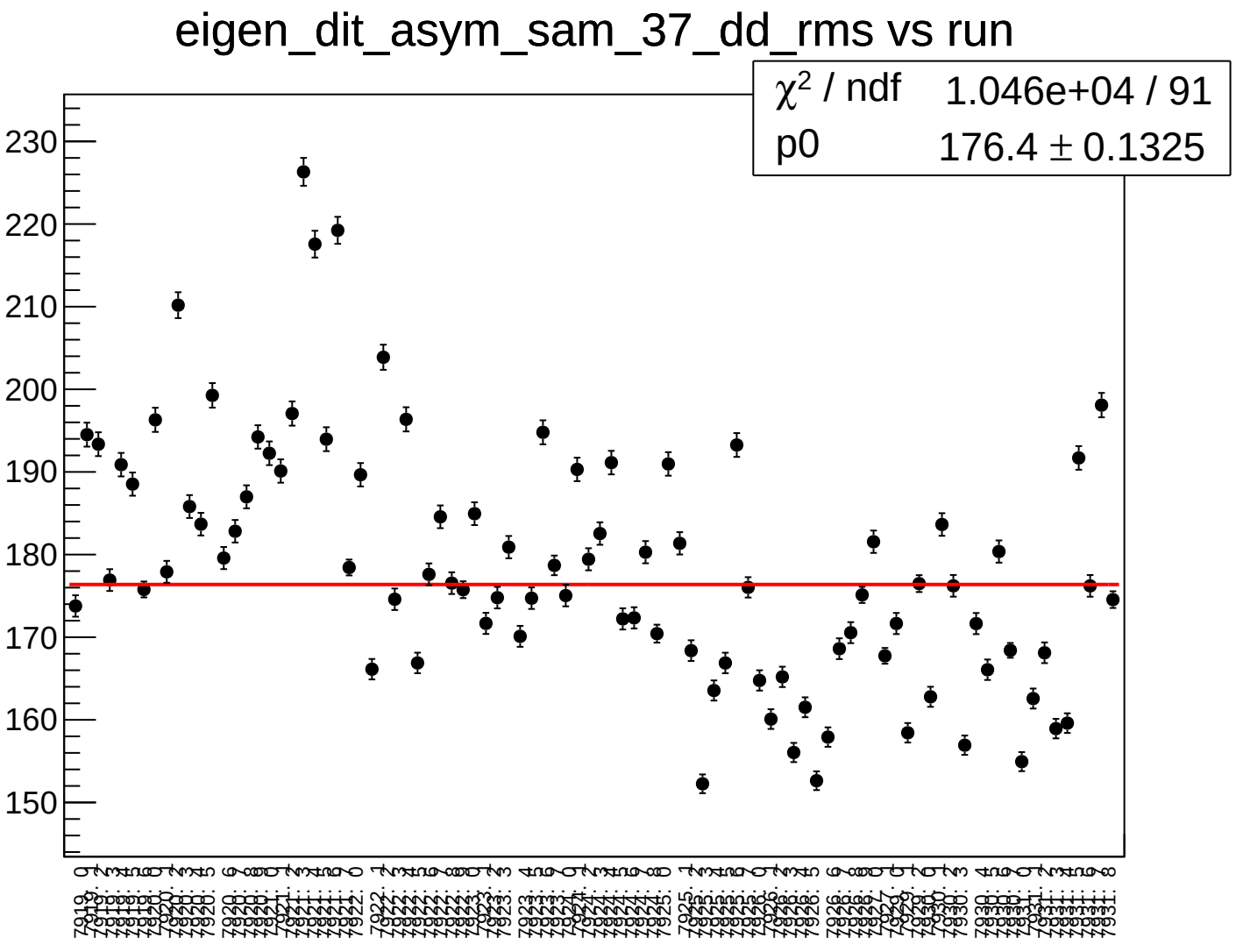

dit_asym_sam_37_dd_mean vs run
χ^2 / ndf 98.06 / 91
p0 34.03 ± 187.4
pull
Entries 92
Mean −27.96
Std Dev 0
pull1D
Entries 92
Mean −0.006891
Std Dev 1.032


dit_asym_sam_37_dd_rms vs run
χ² / ndf 1.046e+04 / 91
p0 176.4 ± 0.1325
230
220
210
200
190
180
170
160
150

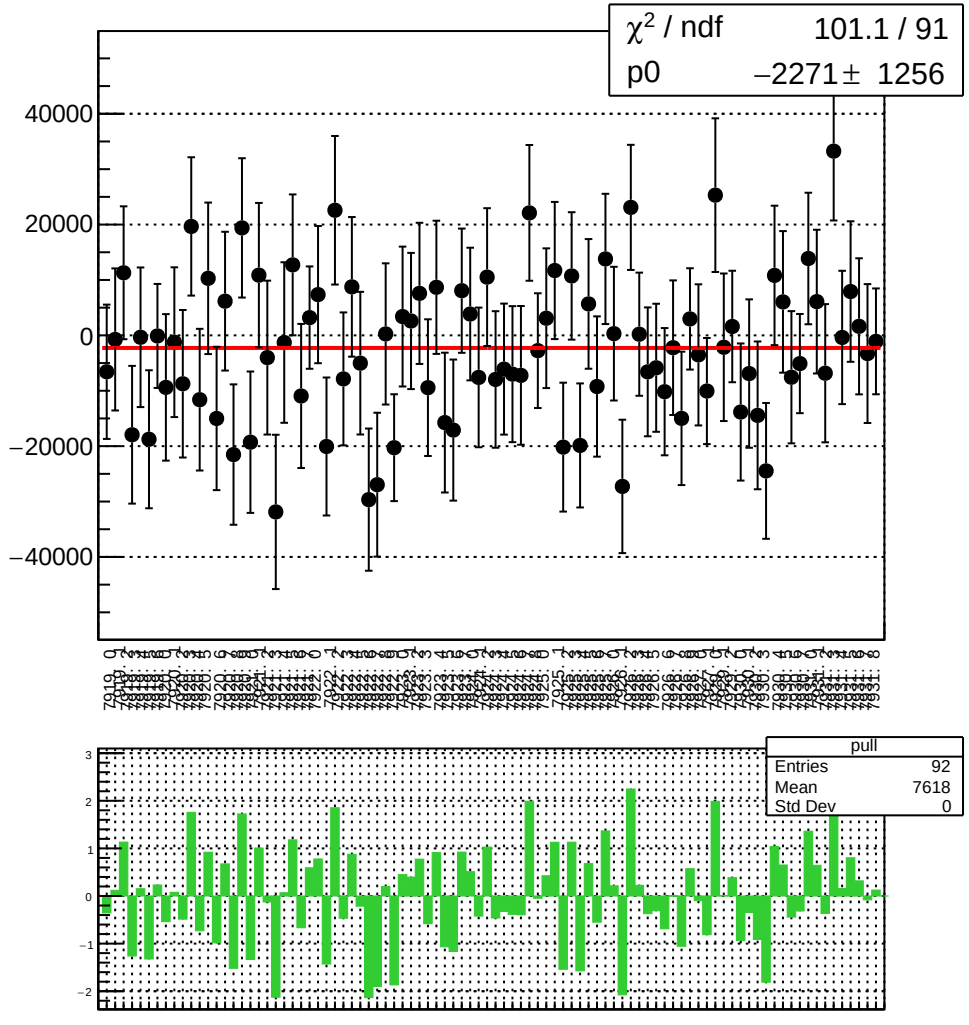

asym_sam_37_dd_dit_correction_mean vs run
χ² / ndf 101.1 / 91
p0 −2271 ± 1256
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 7618
Std Dev 0
pull1D
Entries 92
Mean 0.0003995
Std Dev 1.048

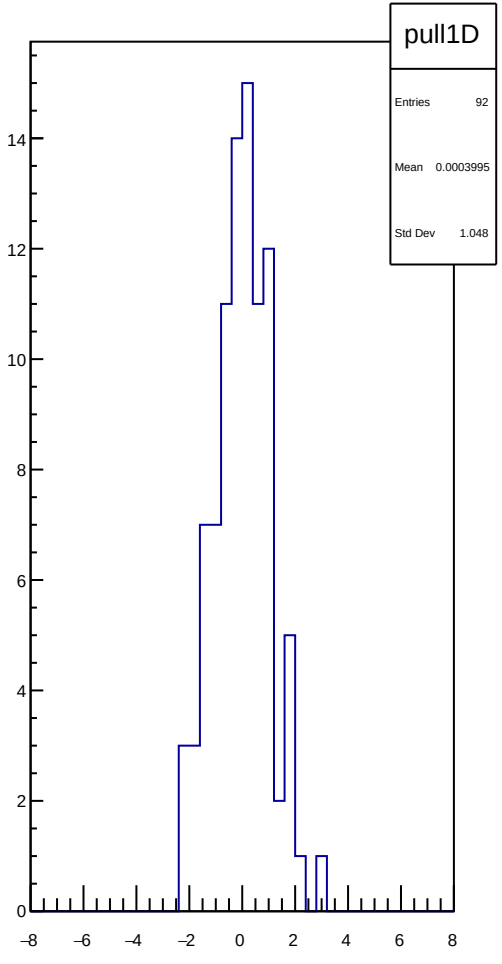

asym_sam_37_dd_dit_correction_rms vs run
χ² / ndf 3793 / 91
p0 1184 ± 0.8878
1400
1350
1300
1250
1200
1150
1100
1050

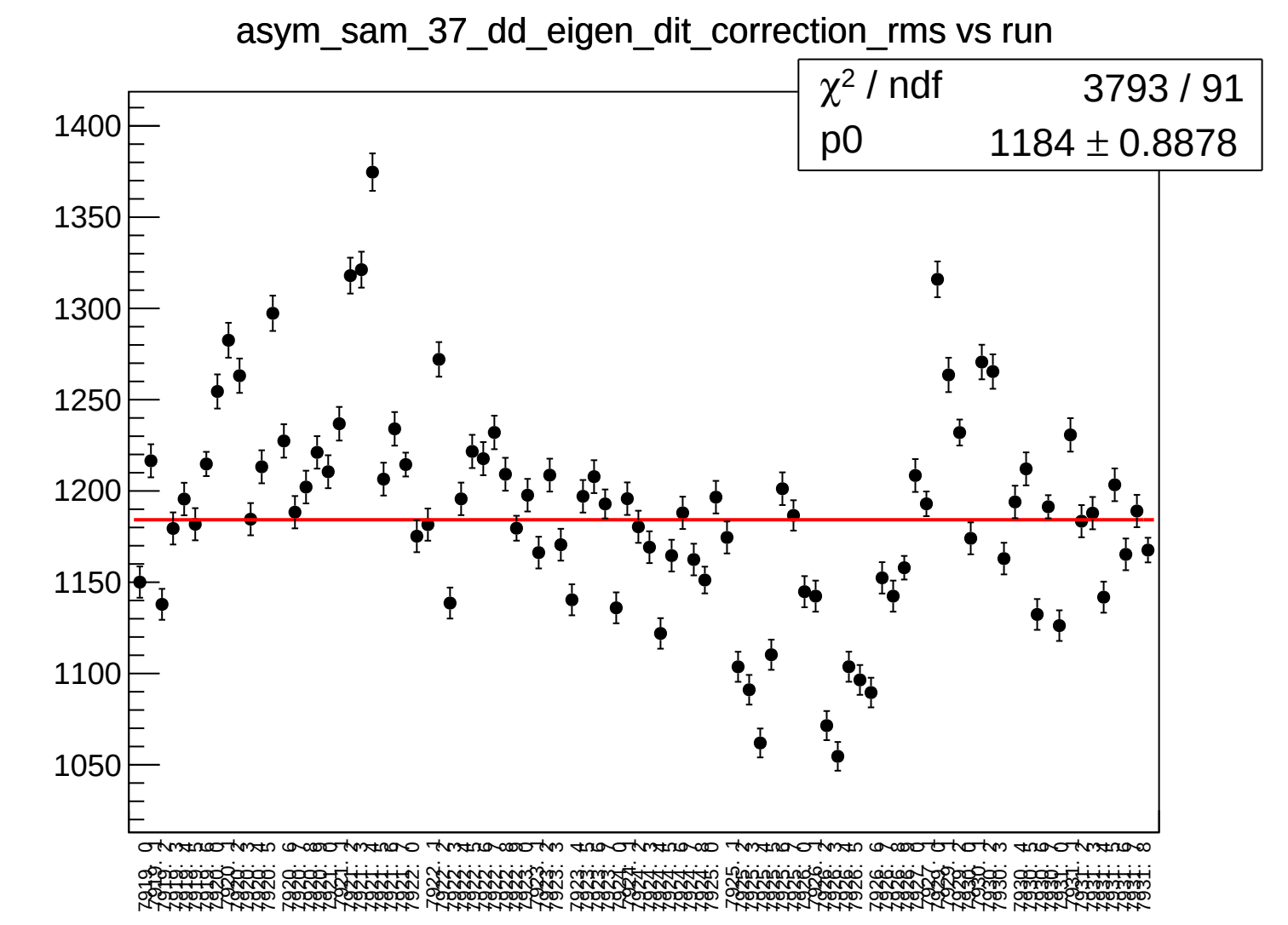

eigen_dit_asym_sam_37_dd_mean vs run
χ² / ndf 98.06 / 91
p0 34.03 ± 187.4
pull
Entries 92
Mean −27.97
Std Dev 0
pull1D
Entries 92
Mean −0.006891
Std Dev 1.032

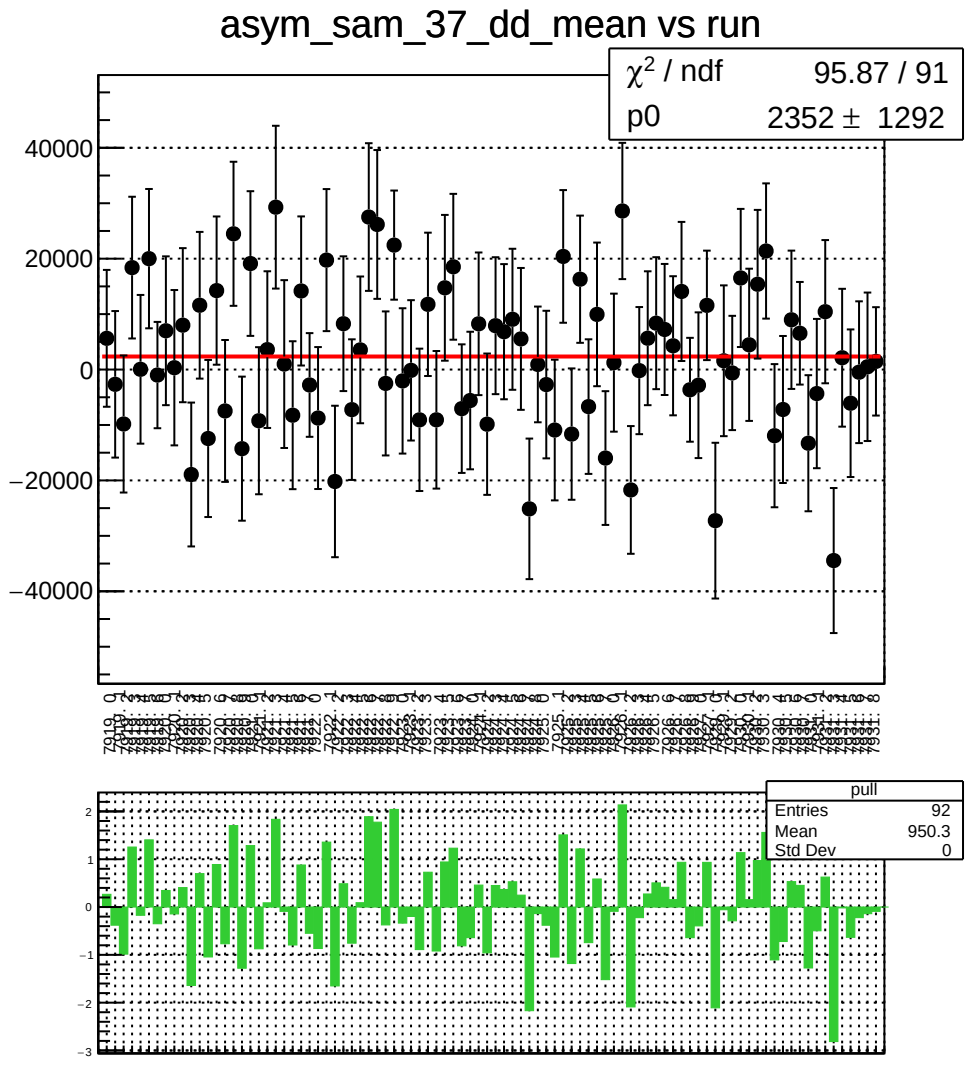

eigen_dit_asym_sam_37_dd_rms vs run
χ^2 / ndf 1.046e+04 / 91
p0 176.4 ± 0.1325
230
220
210
200
190
180
170
160
150

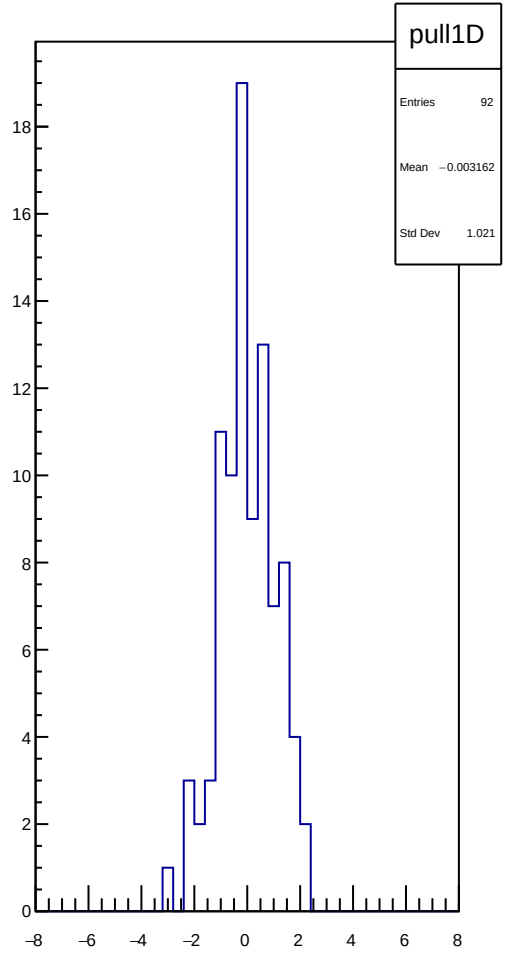
asym_sam_37_dd_eigen_dit_correction_mean vs run

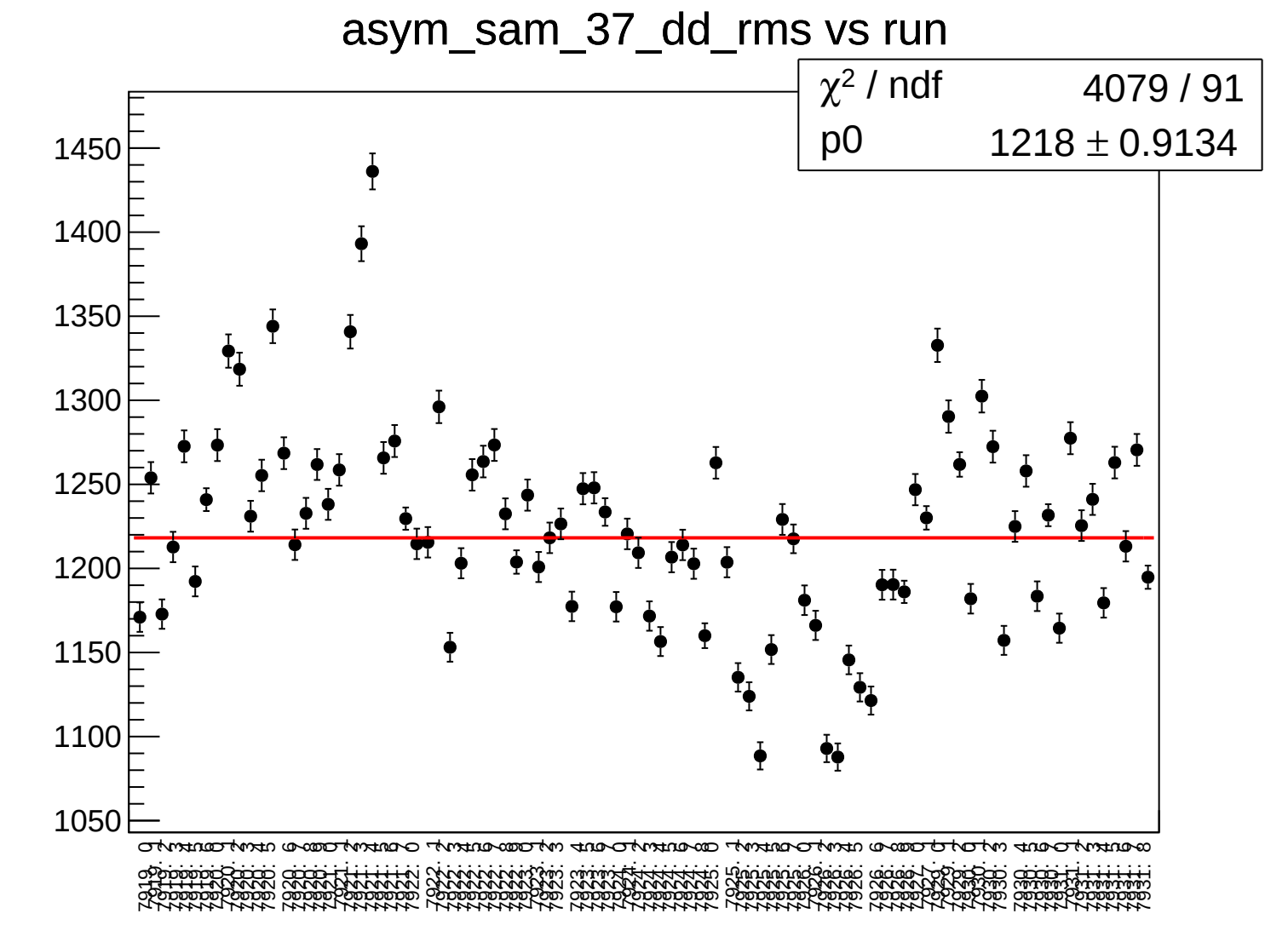


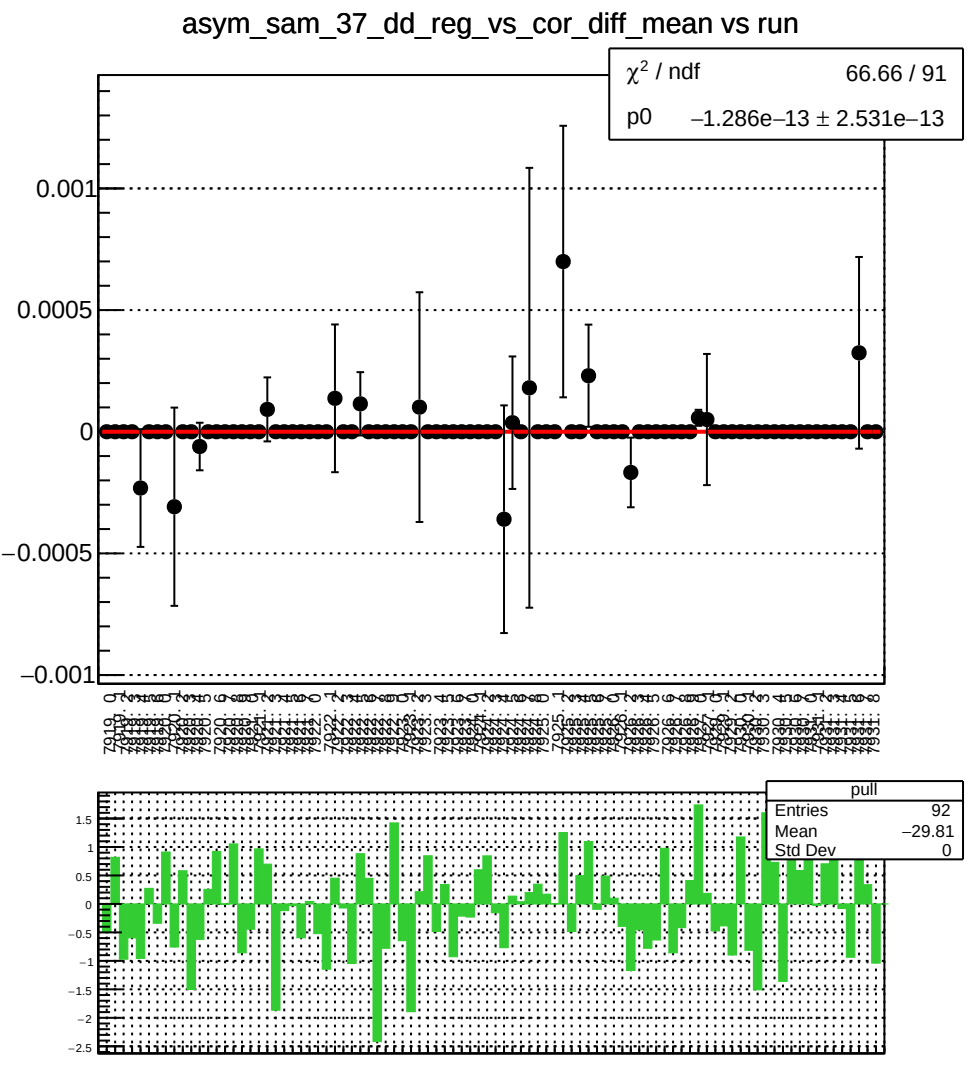


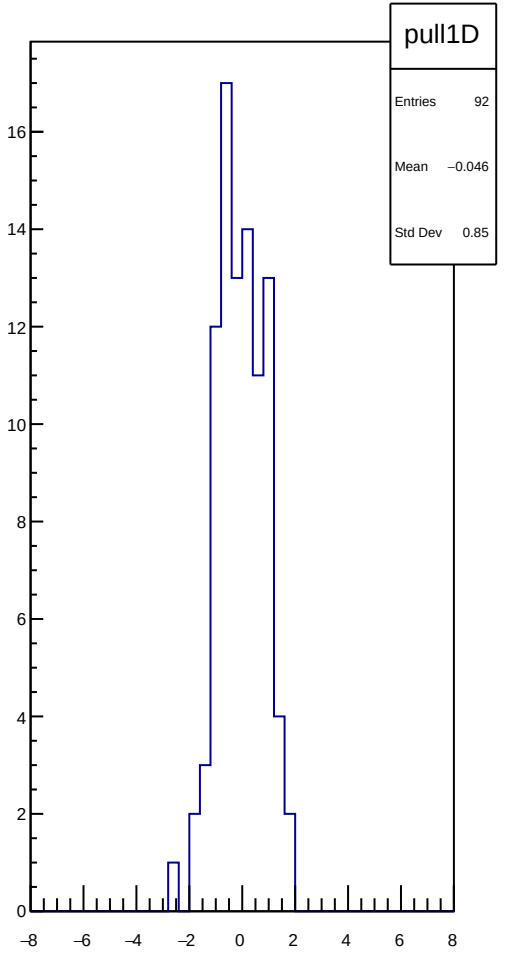

asym_sam_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 3793 / 91
p0 1184 ± 0.8878
1400
1350
1300
1250
1200
1150
1100
1050

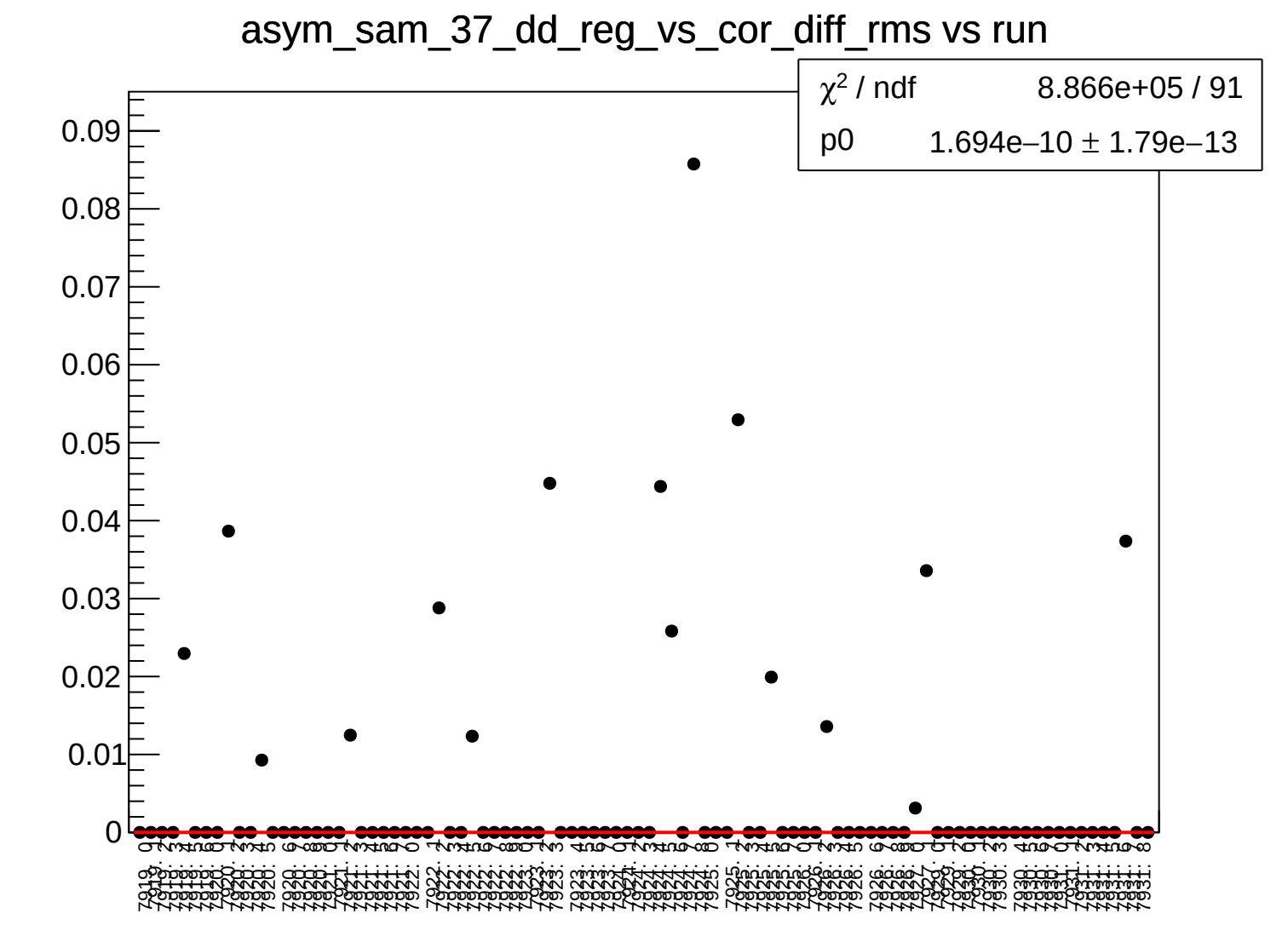

asym_sam_37_dd_mean vs run
χ² / ndf 95.87 / 91
p0 2352 ± 1292
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 950.3
Std Dev 0
2
1
0
−1
−2
−3

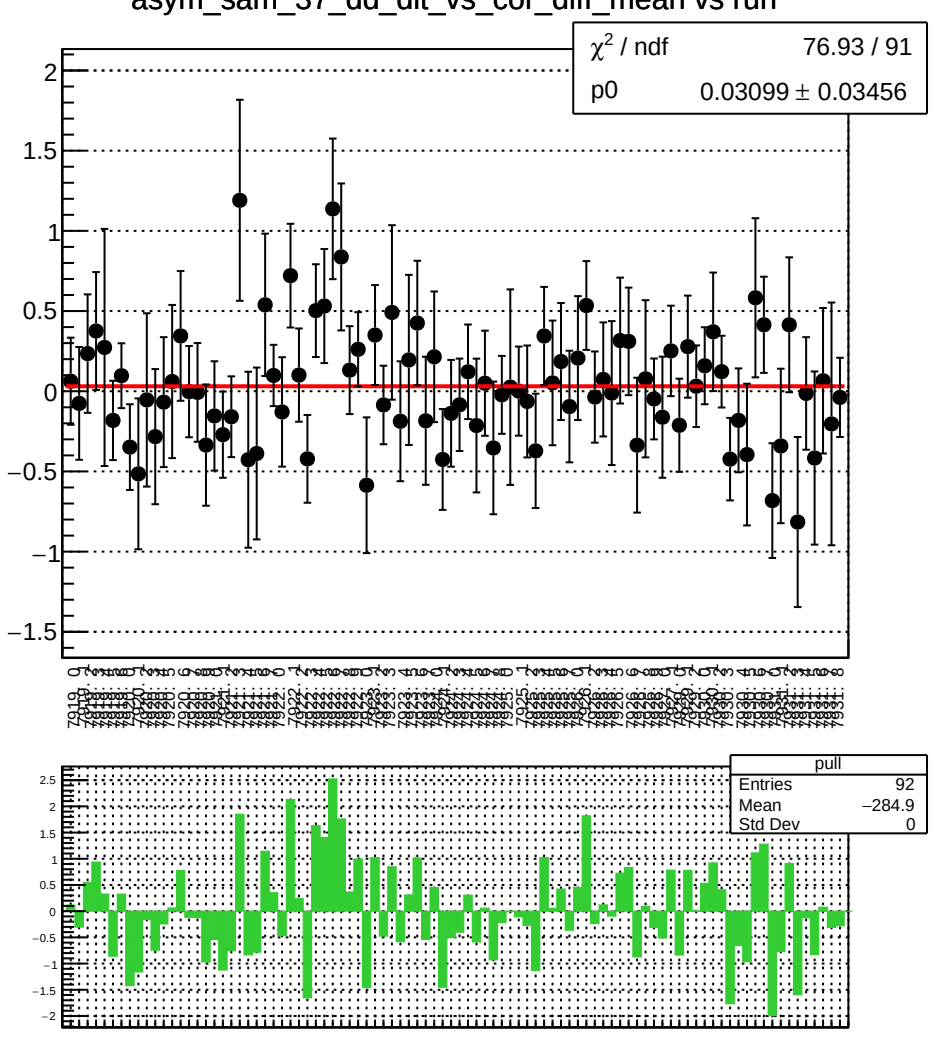

pull1D
Entries 92
Mean −0.003162
Std Dev 1.021
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

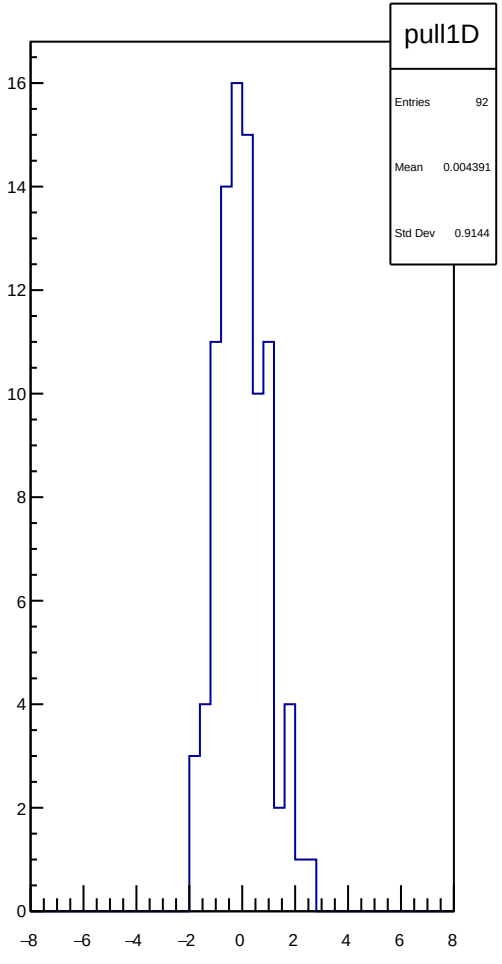

asym_sam_37_dd_rms vs run
χ² / ndf 4079 / 91
p0 1218 ± 0.9134
1450
1400
1350
1300
1250
1200
1150
1100
1050

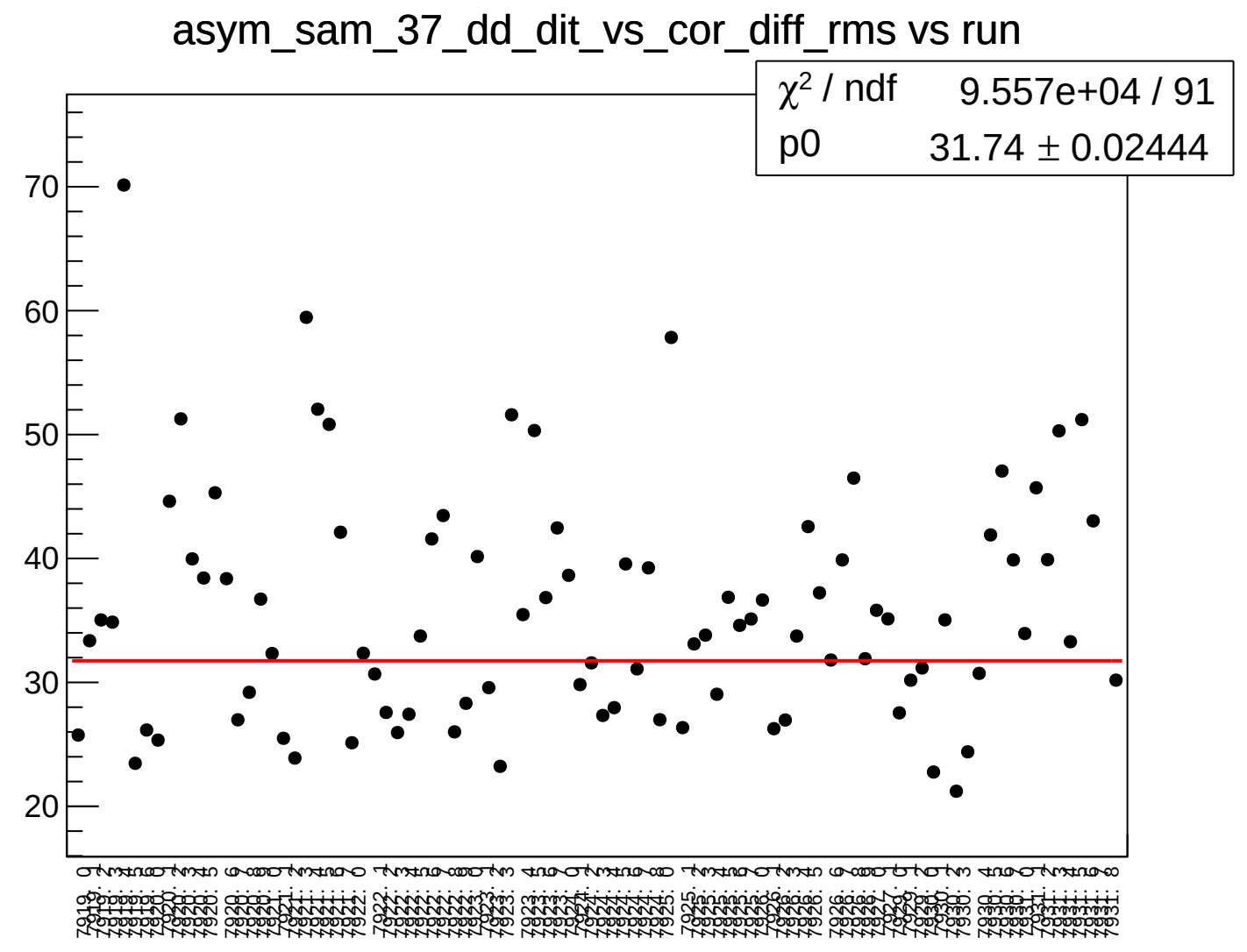

asym_sam_37_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 66.66 / 91
p0 −1.286e−13 ± 2.531e−13
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 92
Mean −29.81
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

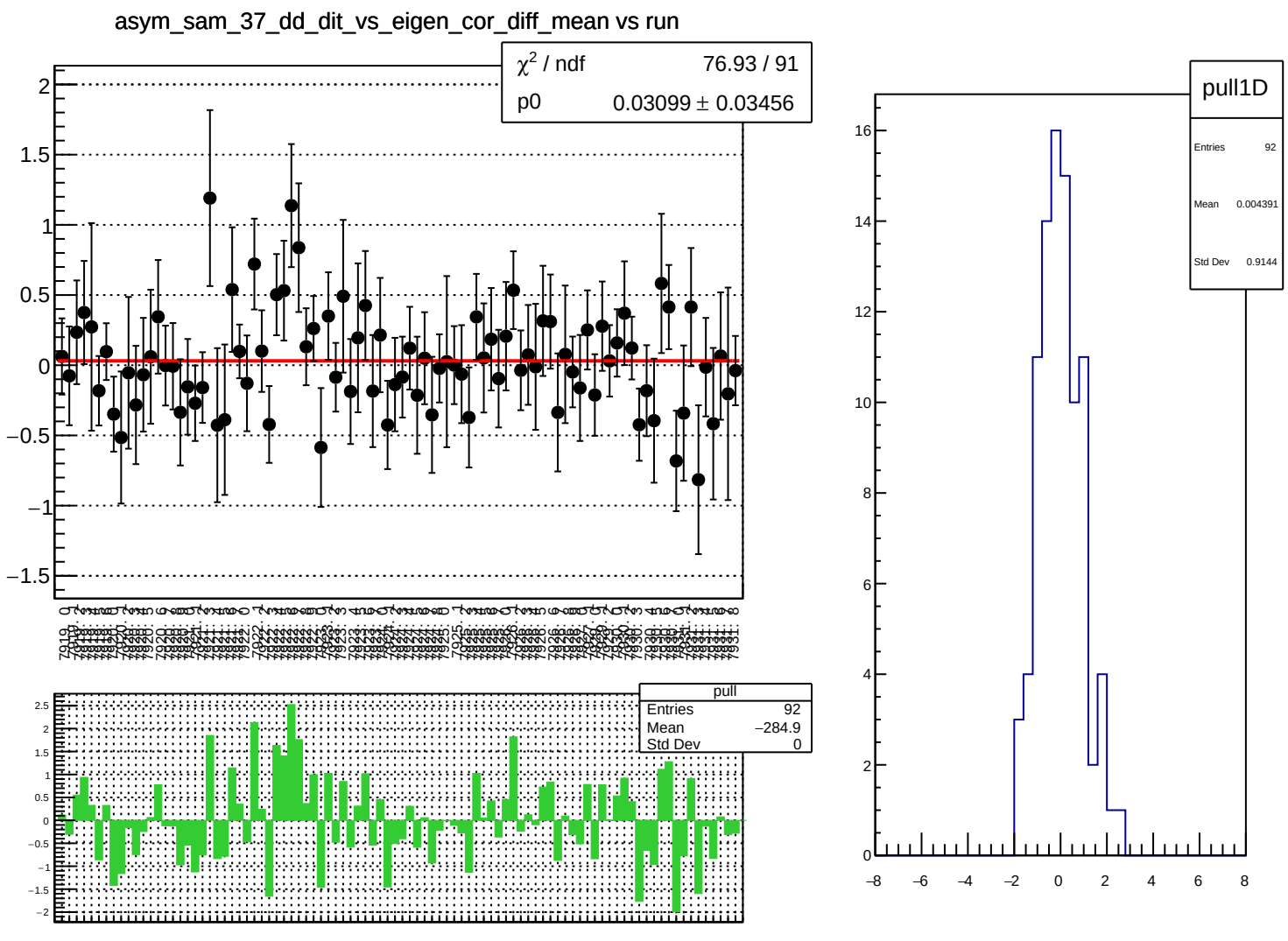

pull1D
Entries 92
Mean −0.046
Std Dev 0.85
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

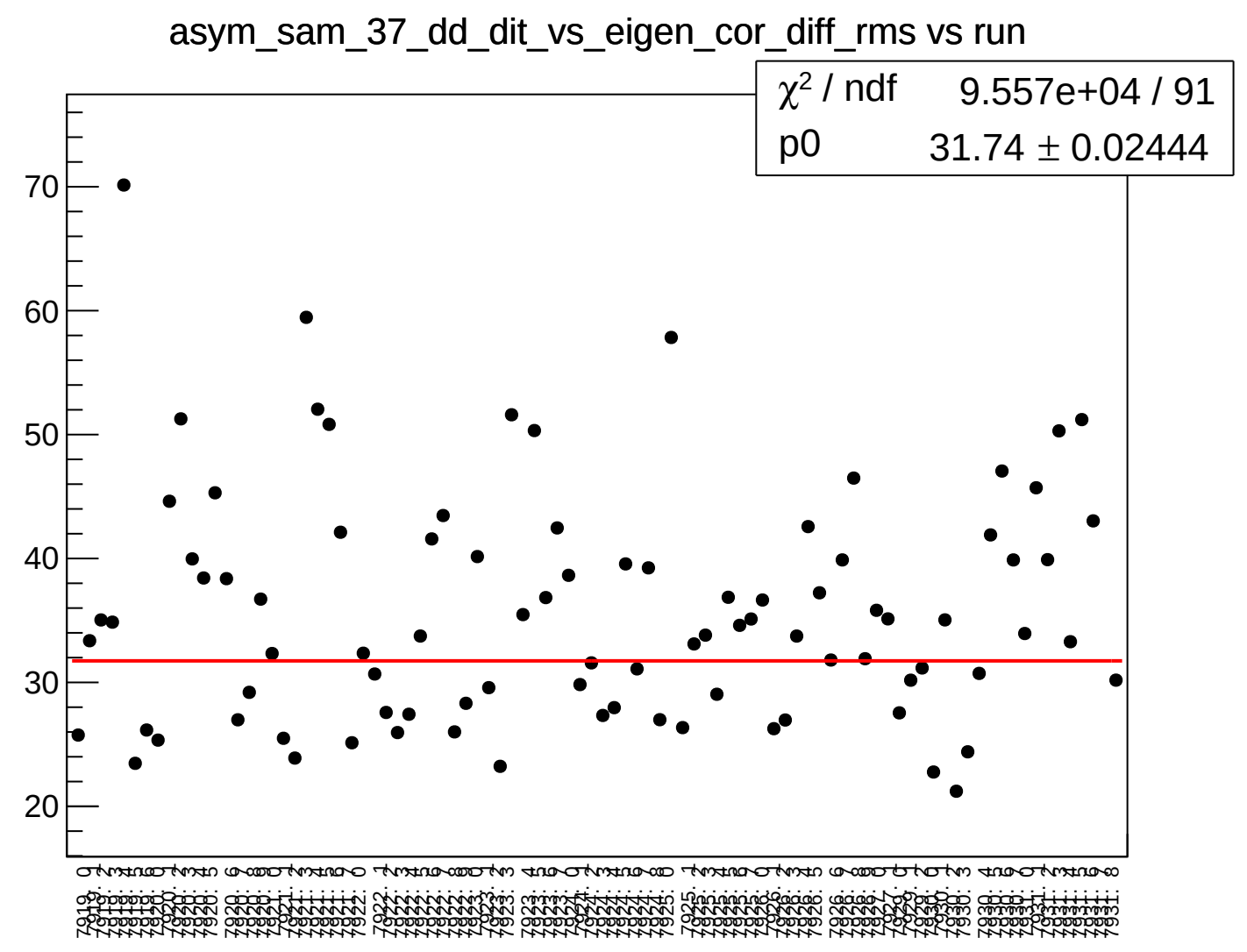

asym_sam_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.866e+05 / 91
p0 1.694e−10 ± 1.79e−13
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

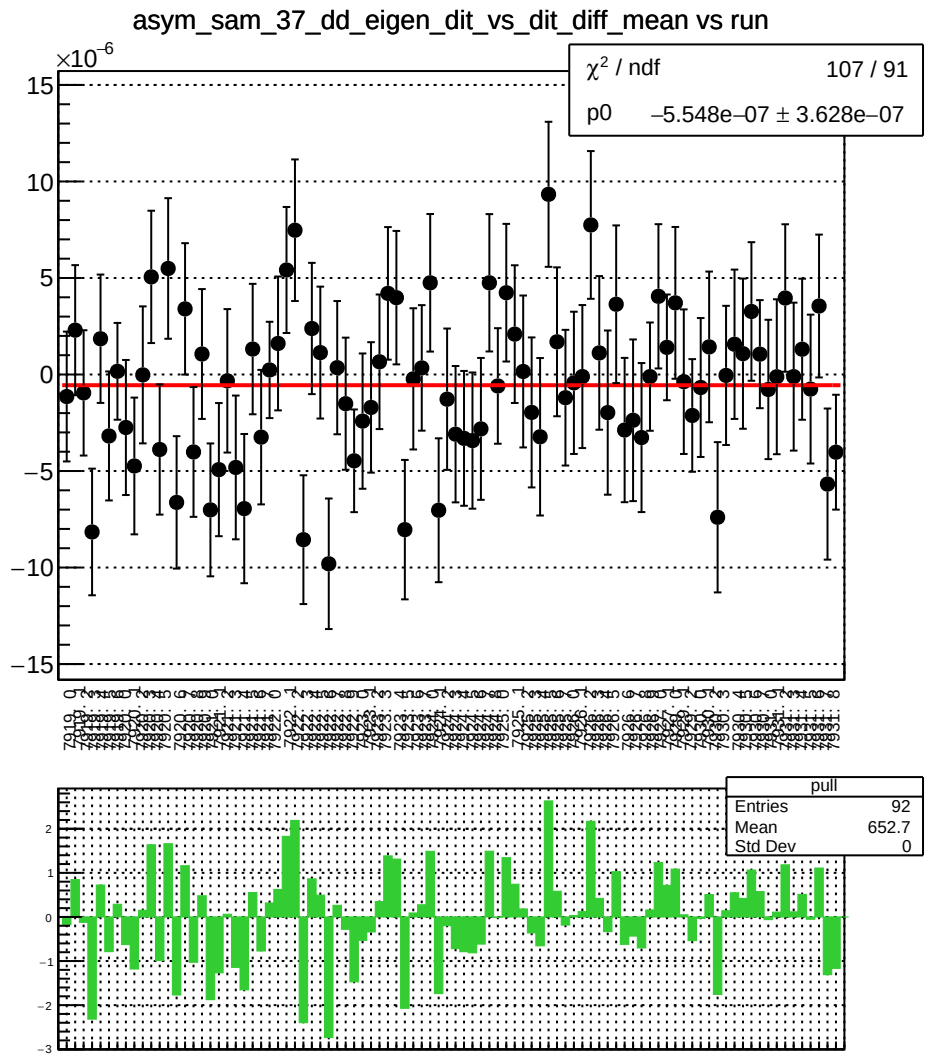

asym_sam_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 76.93 / 91
p0 0.03099 ± 0.03456
pull
Entries 92
Mean −284.9
Std Dev 0

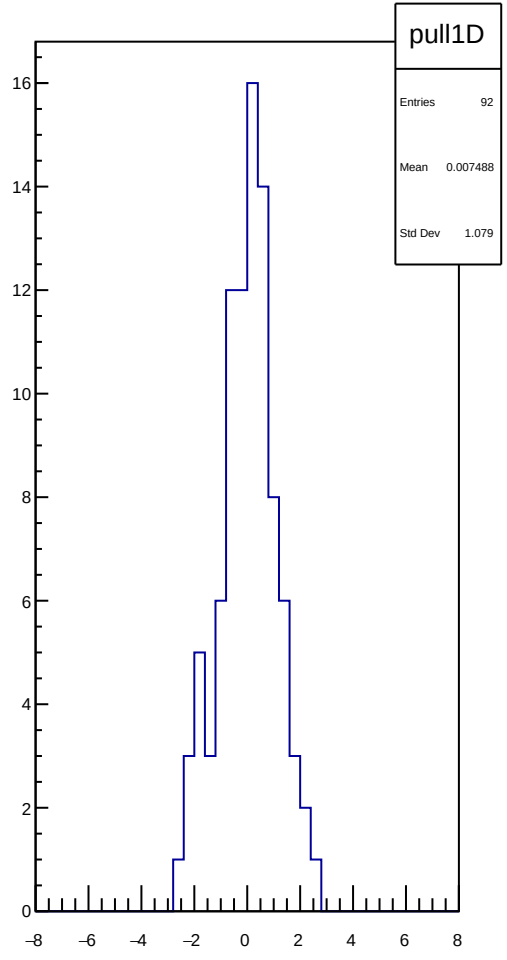

pull1D
Entries 92
Mean 0.004391
Std Dev 0.9144

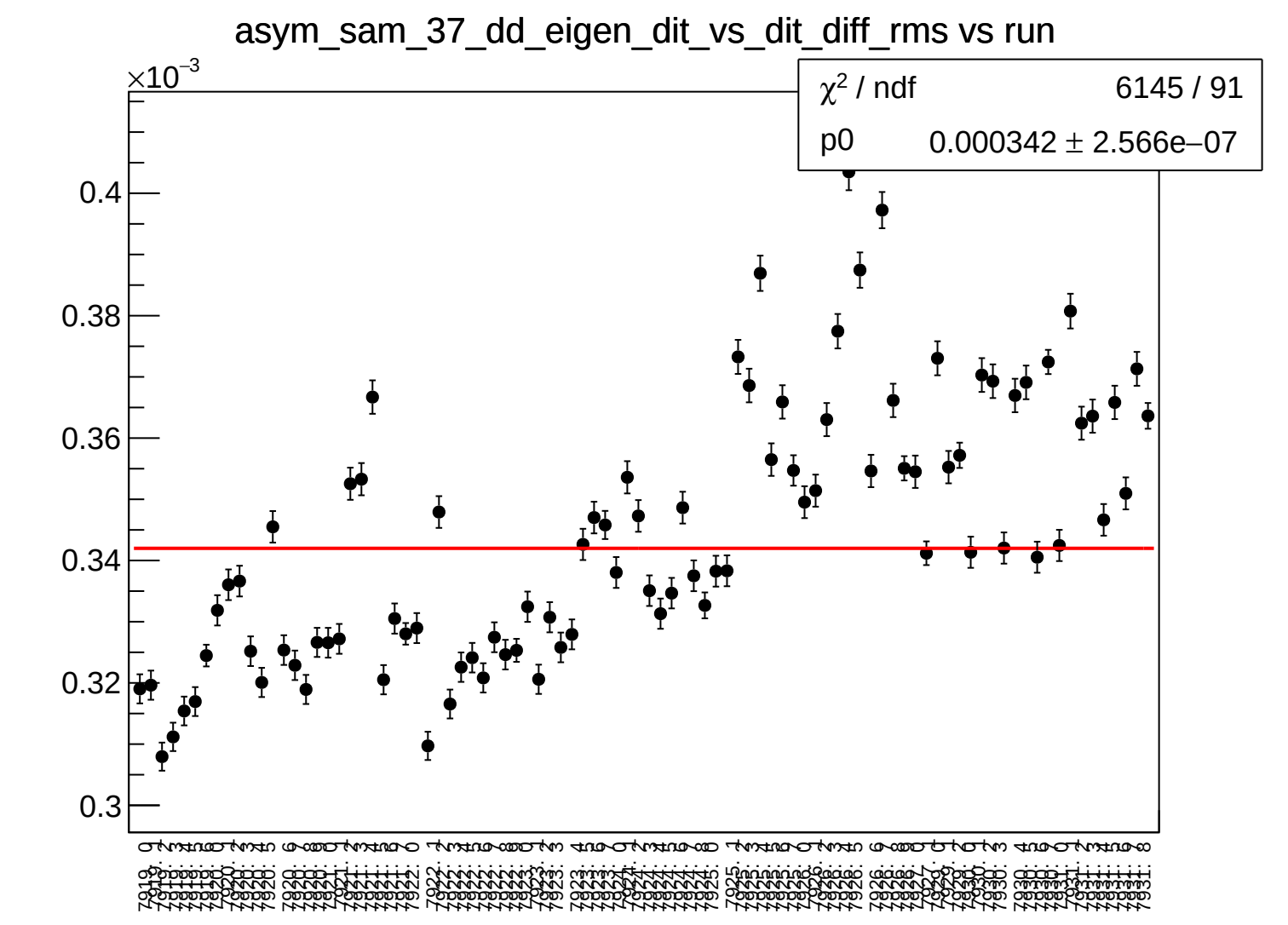

asym_sam_37_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 9.557e+04 / 91
p0 31.74 ± 0.02444
70
60
50
40
30
20

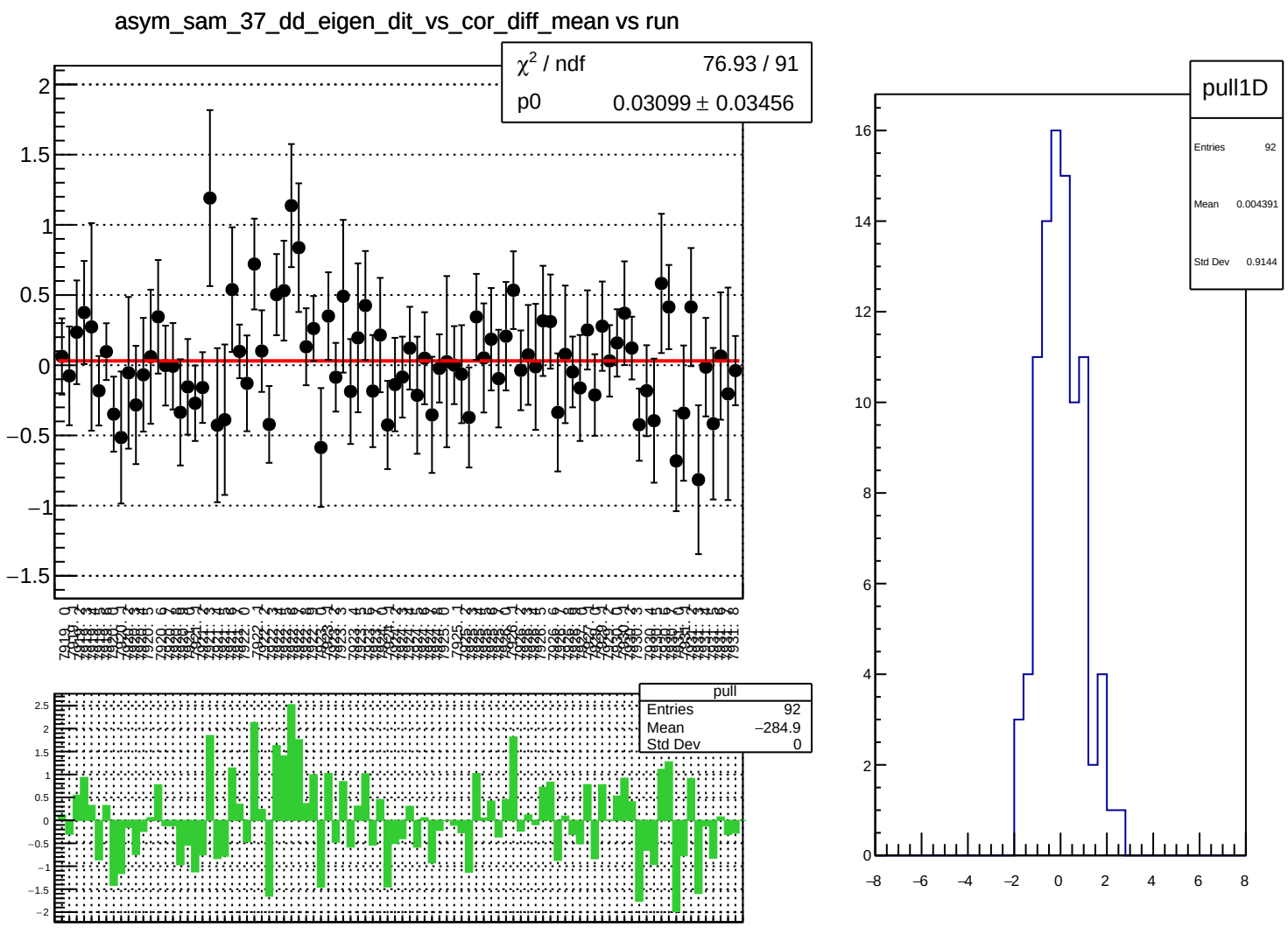

asym_sam_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.93 / 91
p0 0.03099 ± 0.03456
pull
Entries 92
Mean −284.9
Std Dev 0
pull1D
Entries 92
Mean 0.004391
Std Dev 0.9144

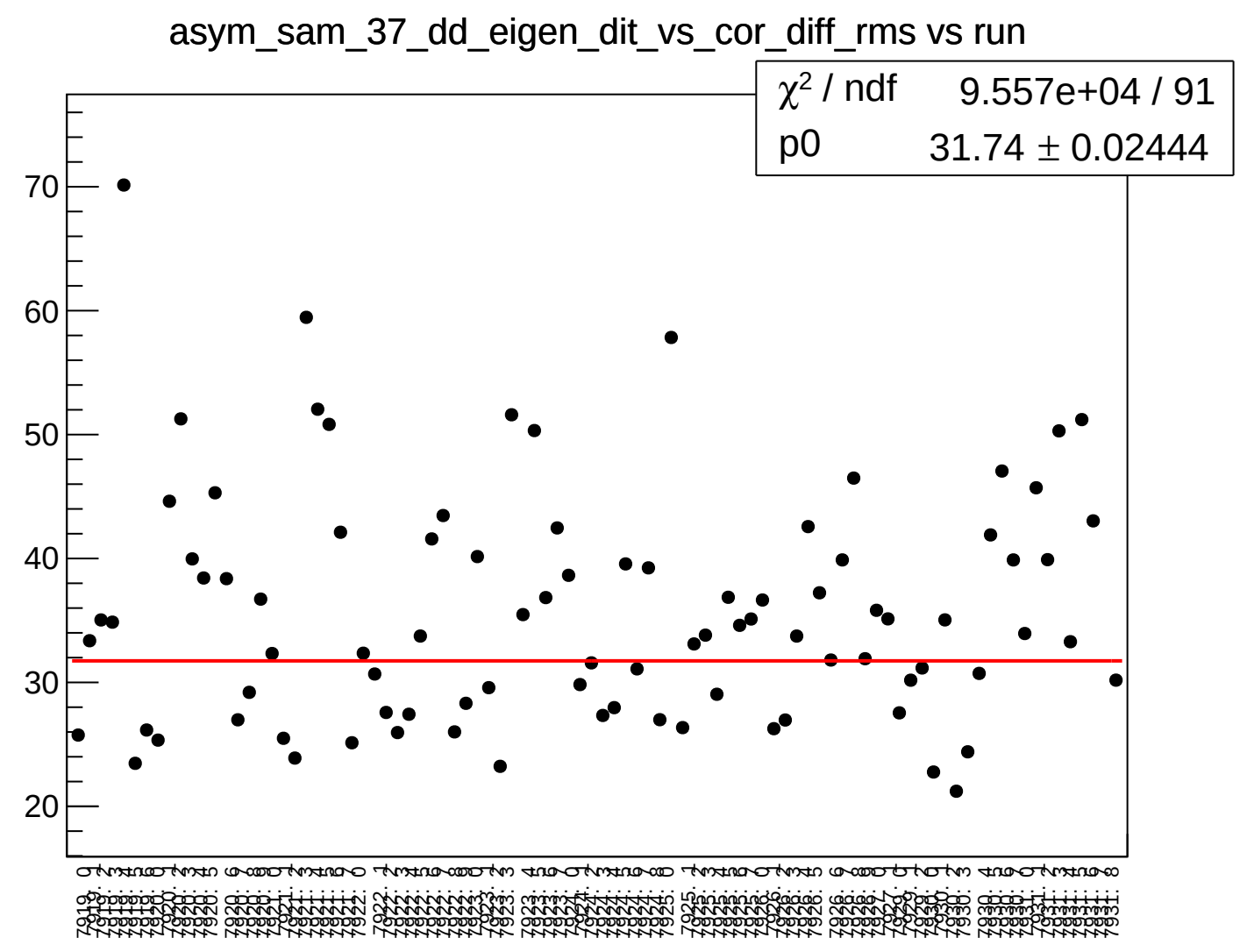

asym_sam_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 9.557e+04 / 91
p0 31.74 ± 0.02444
70
60
50
40
30
20

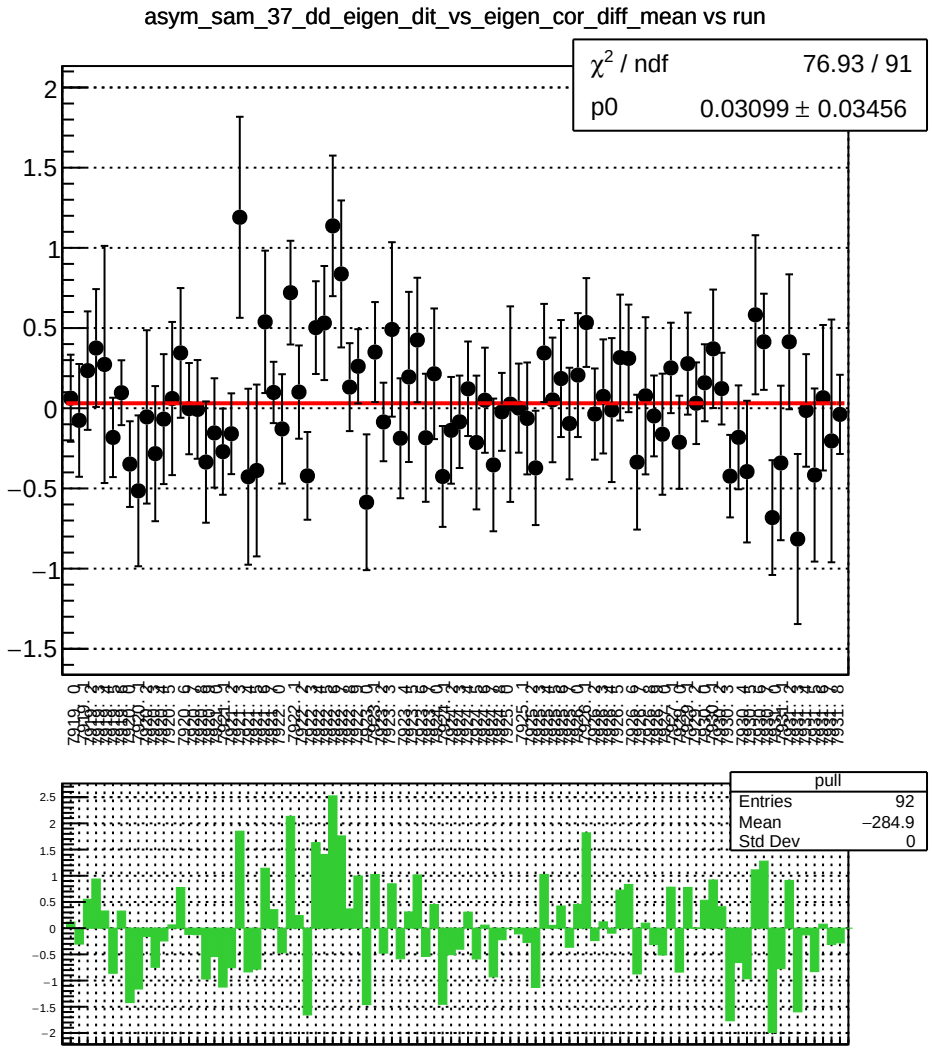

asym_sam_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻⁶
χ² / ndf 107 / 91
p0 −5.548e−07 ± 3.628e−07
pull
Entries 92
Mean 652.7
Std Dev 0

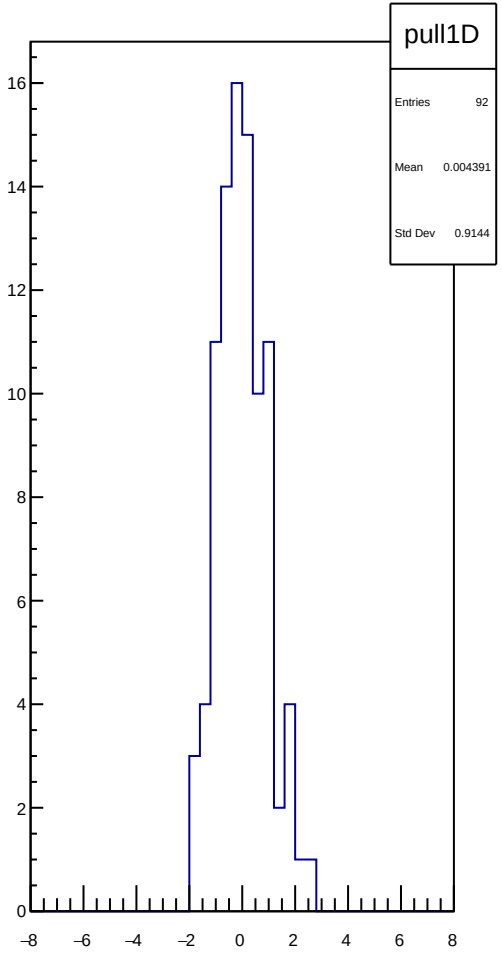

pull1D
Entries 92
Mean 0.007488
Std Dev 1.079

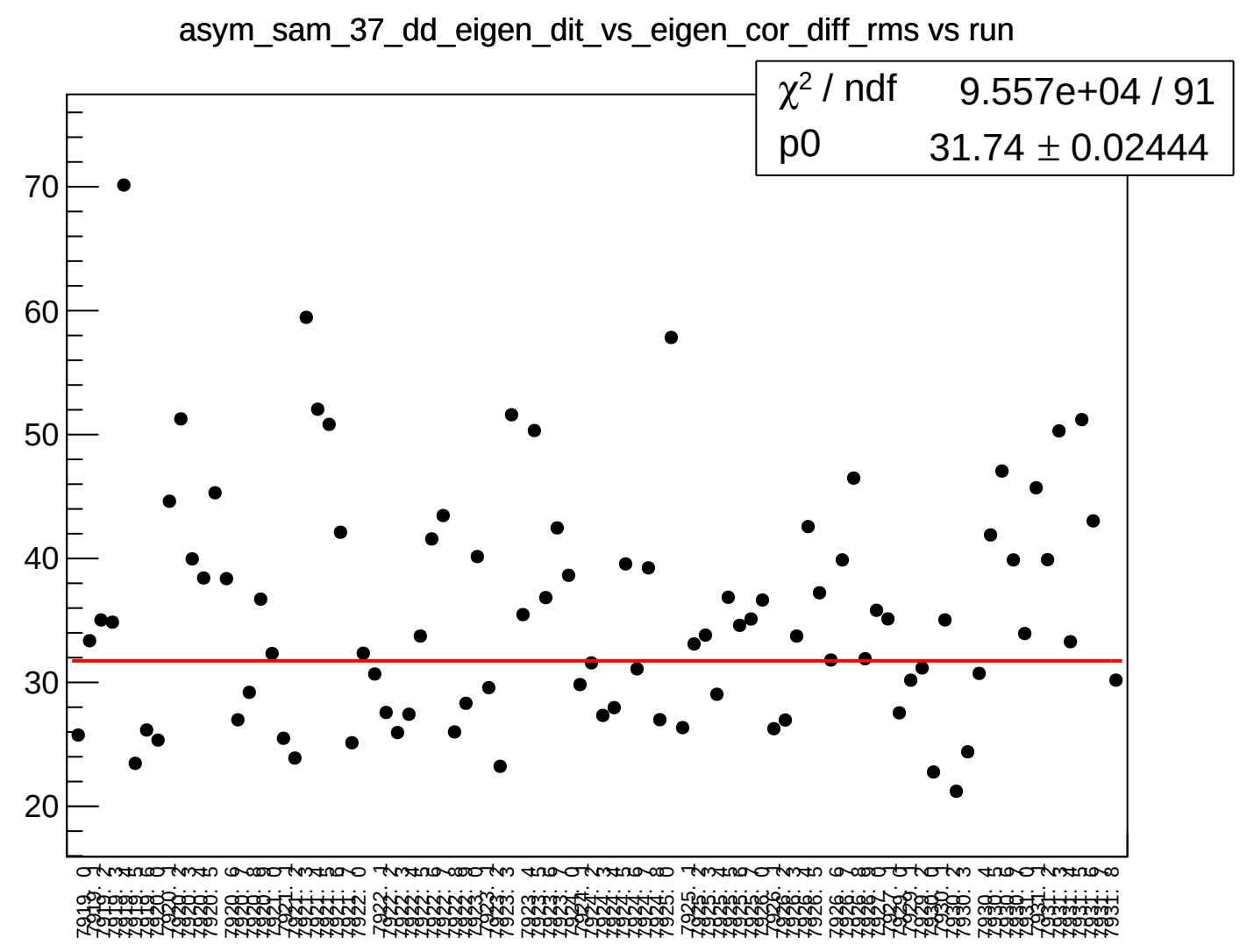

asym_sam_37_dd_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 6145 / 91
p0 0.000342 ± 2.566e−07
0.4
0.38
0.36
0.34
0.32
0.3

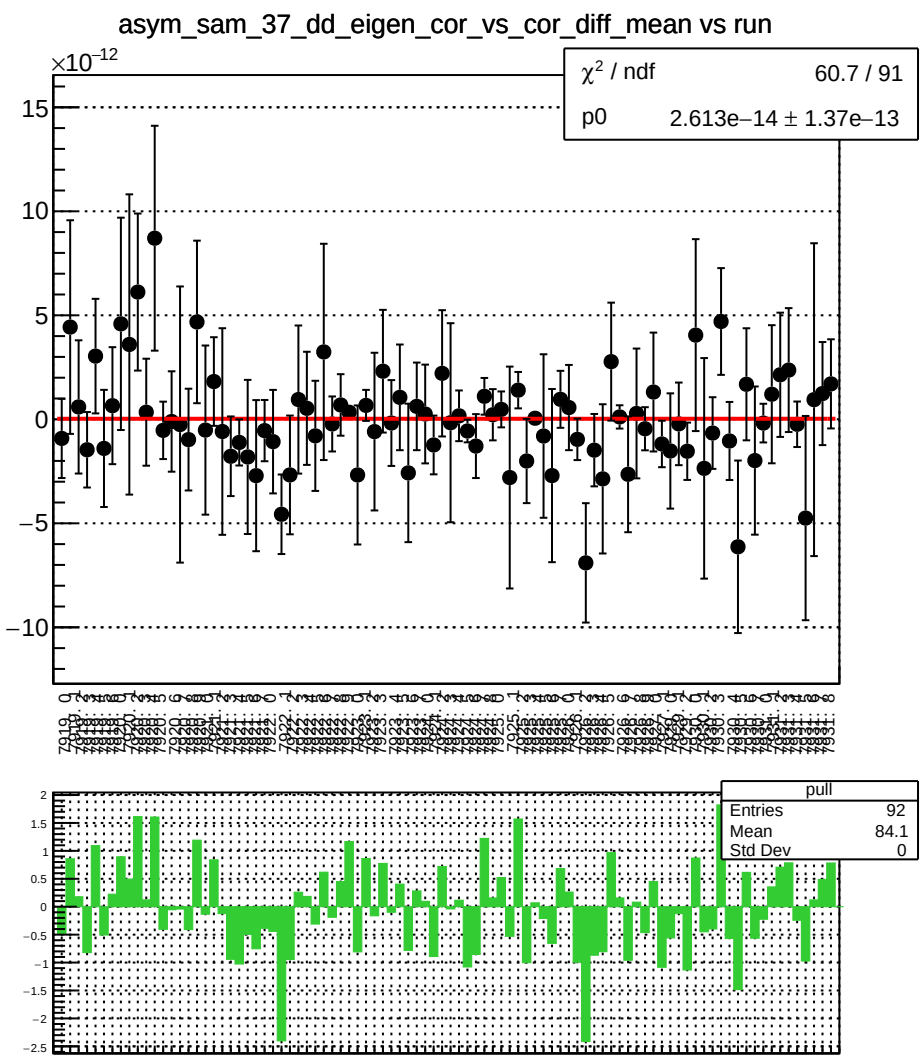

asym_sam_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.93 / 91
p0 0.03099 ± 0.03456
pull
Entries 92
Mean −284.9
Std Dev 0
pull1D
Entries 92
Mean 0.004391
Std Dev 0.9144

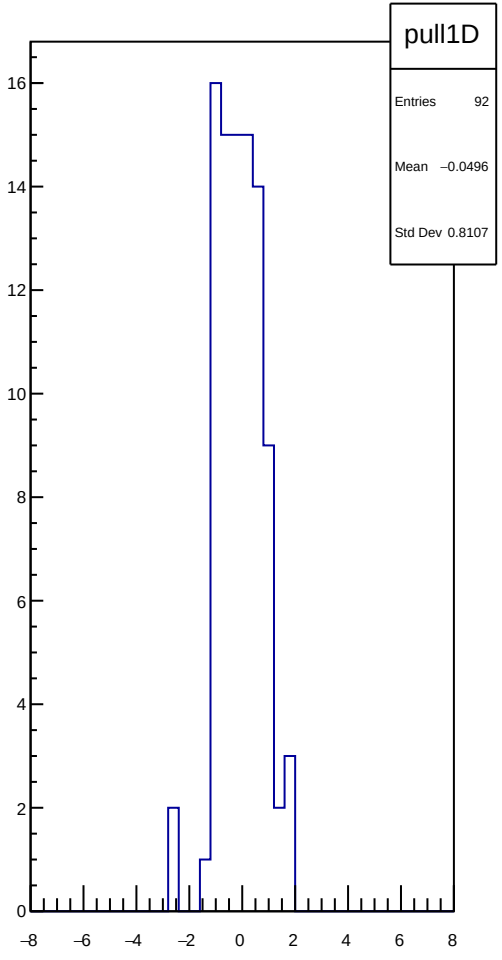

asym_sam_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 9.557e+04 / 91
p0 31.74 ± 0.02444
70
60
50
40
30
20

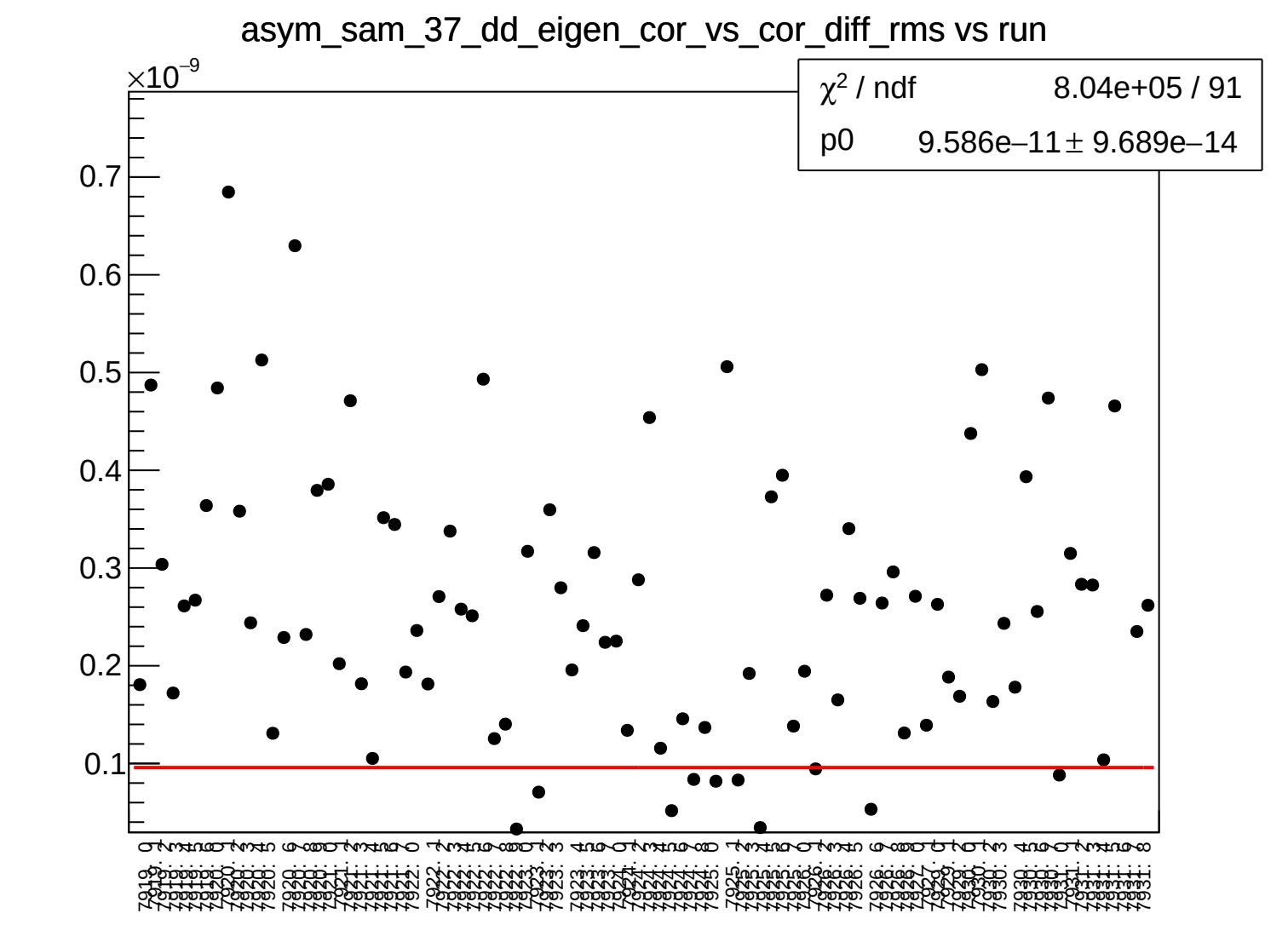

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.93 / 91
p0 0.03099 ± 0.03456
pull
Entries 92
Mean −284.9
Std Dev 0

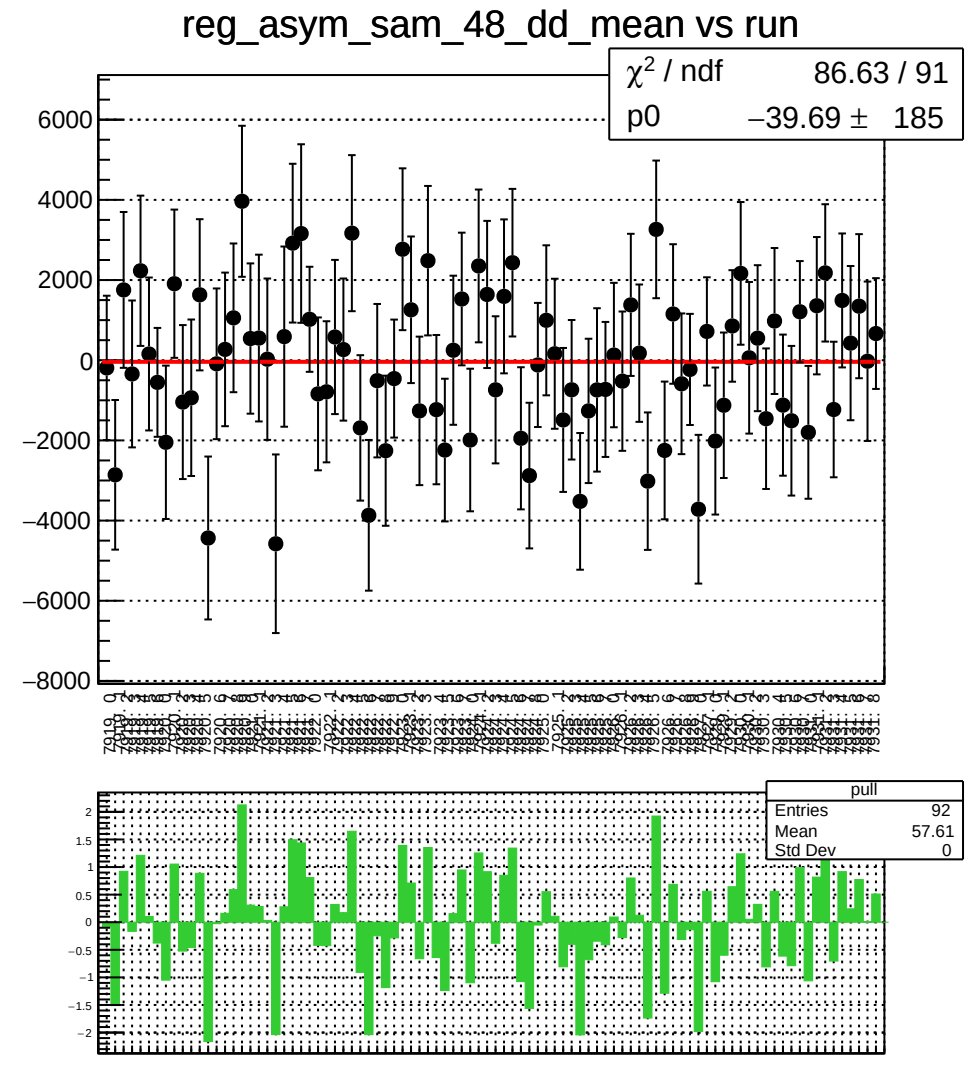

pull1D
Entries 92
Mean 0.004391
Std Dev 0.9144

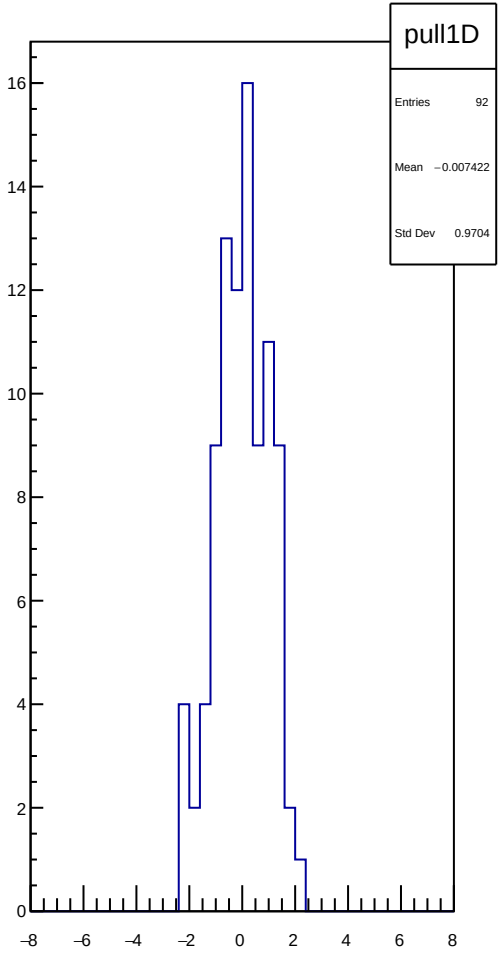

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 9.557e+04 / 91
p0 31.74 ± 0.02444
70
60
50
40
30
20

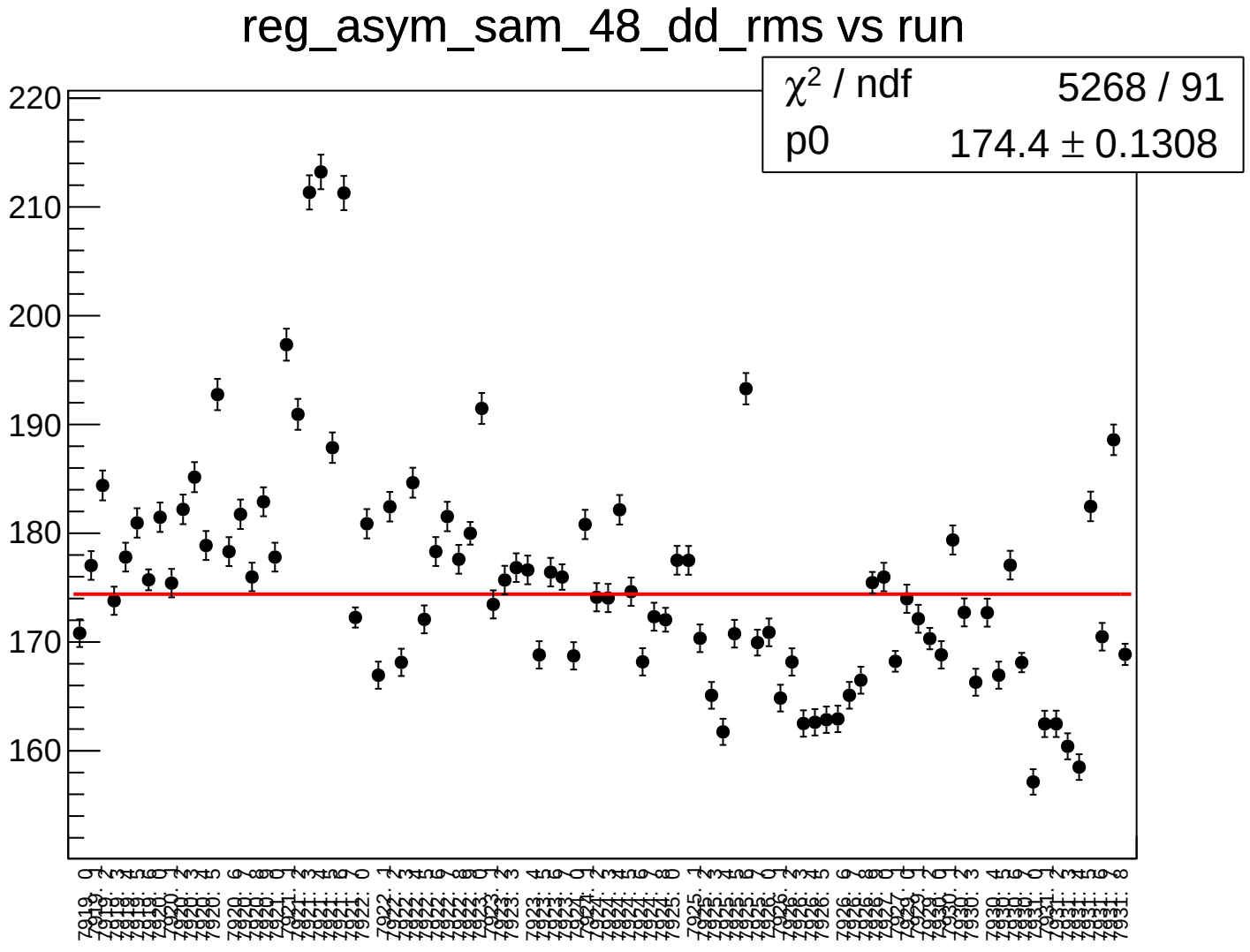

asym_sam_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 60.7 / 91
p0 2.613e−14 ± 1.37e−13
pull
Entries 92
Mean 84.1
Std Dev 0

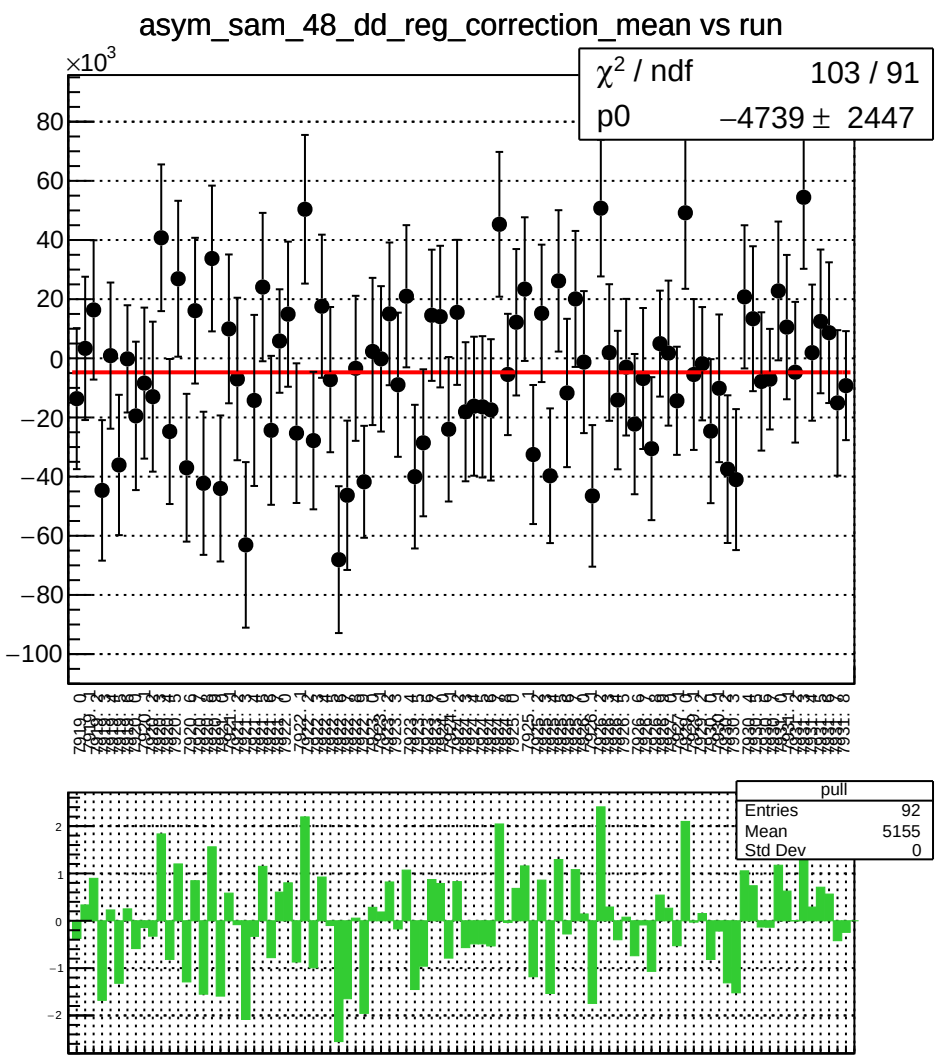

pull1D
Entries 92
Mean −0.0496
Std Dev 0.8107

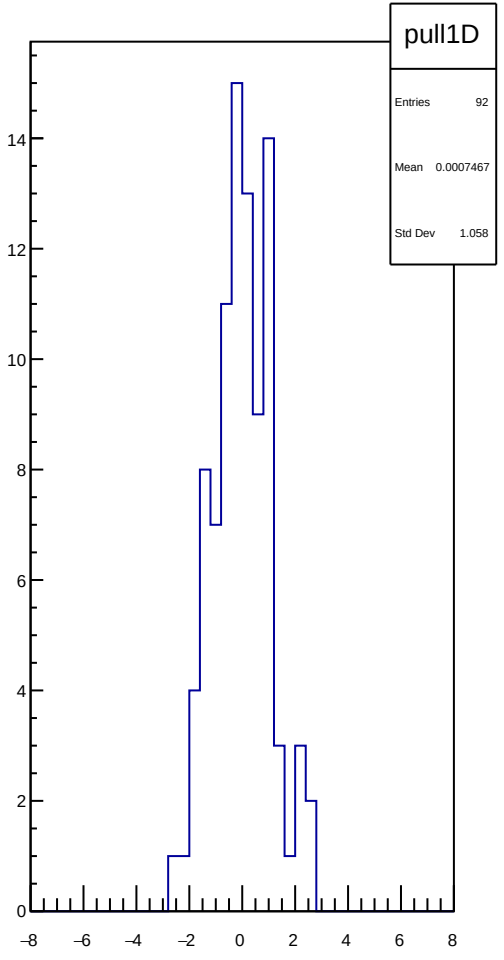

asym_sam_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.04e+05 / 91
p0 9.586e−11 ± 9.689e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

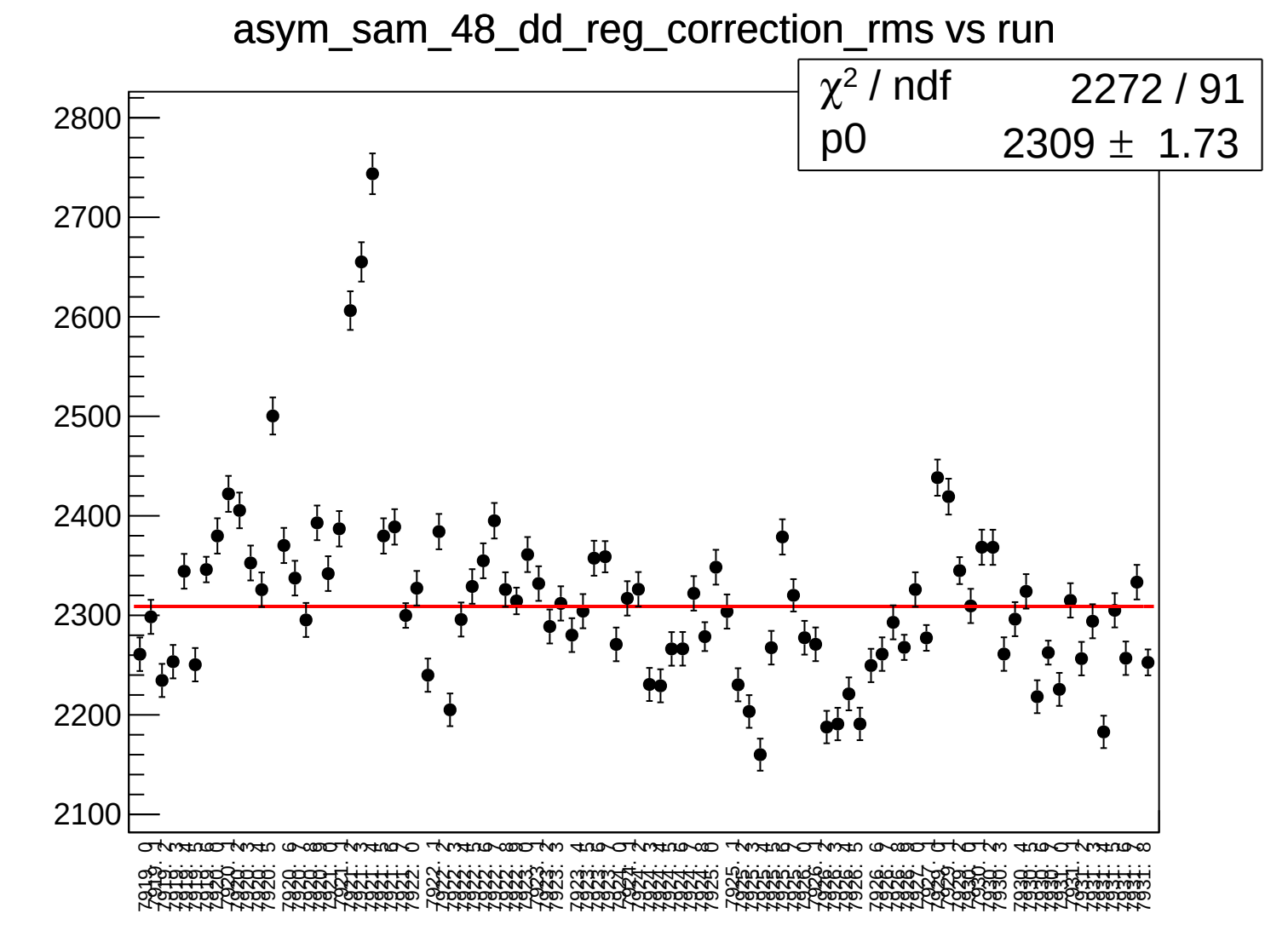

reg_asym_sam_48_dd_mean vs run
χ² / ndf 86.63 / 91
p0 −39.69 ± 185
pull
Entries 92
Mean 57.61
Std Dev 0

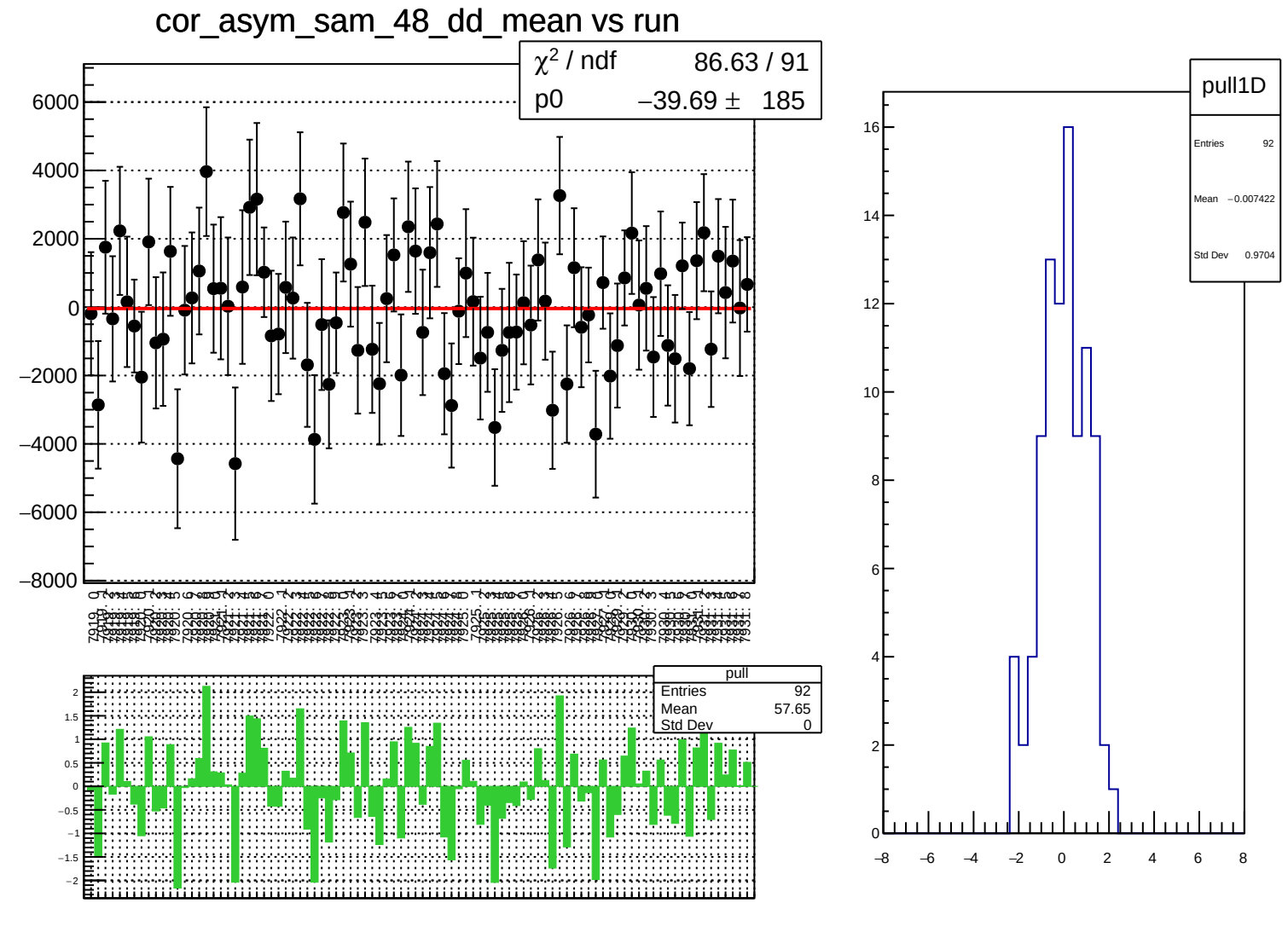

pull1D
Entries 92
Mean −0.007422
Std Dev 0.9704

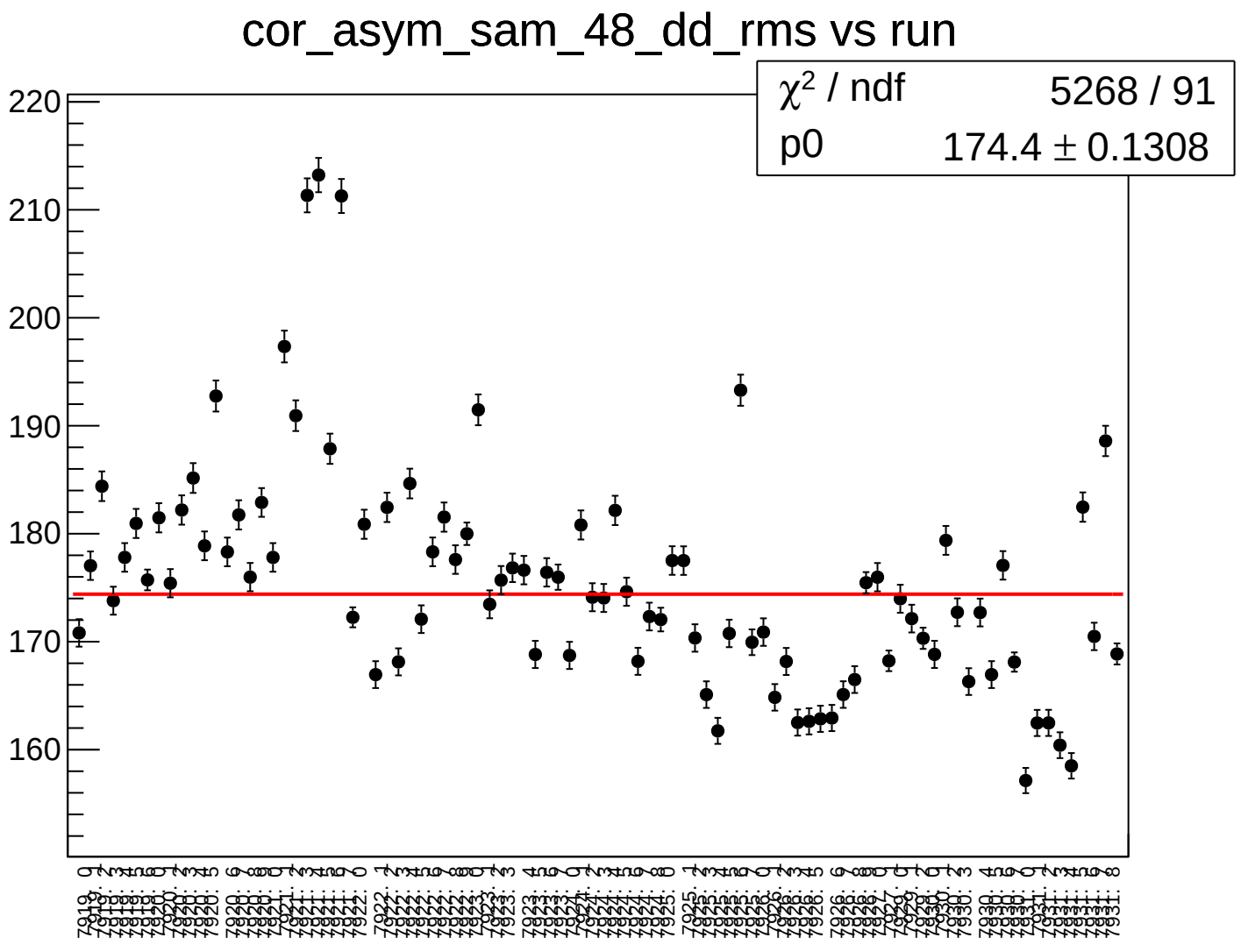

reg_asym_sam_48_dd_rms vs run
χ^2 / ndf 5268 / 91
p0 174.4 ± 0.1308
220
210
200
190
180
170
160

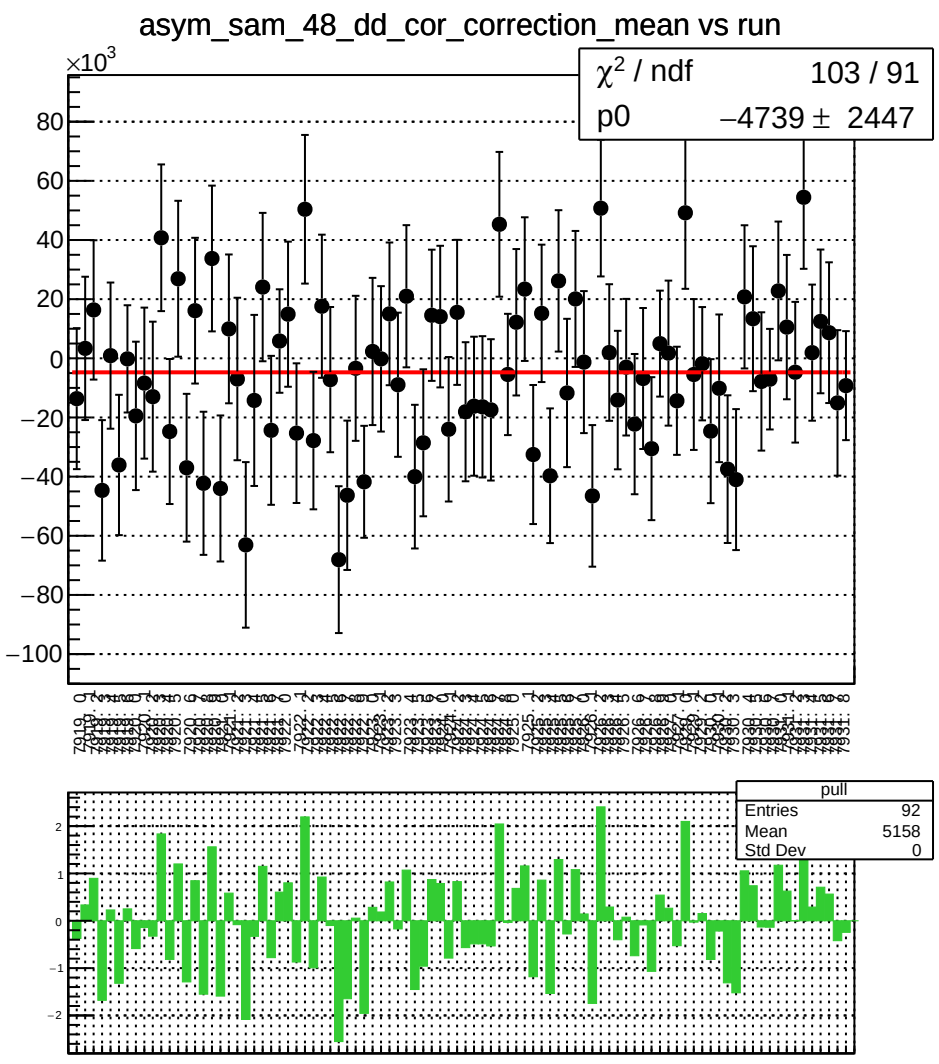

asym_sam_48_dd_reg_correction_mean vs run
×10^3
χ² / ndf 103 / 91
p0 −4739 ± 2447
pull
Entries 92
Mean 5155
Std Dev 0

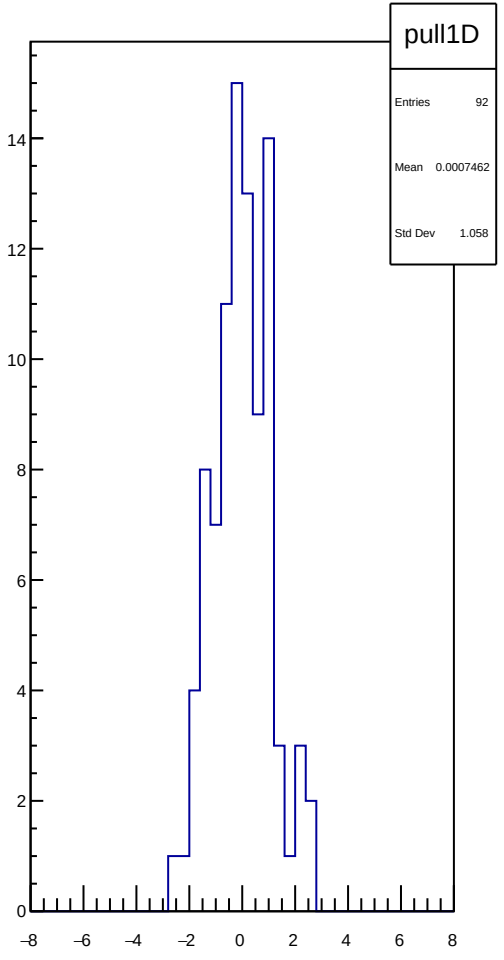

pull1D
Entries 92
Mean 0.0007467
Std Dev 1.058

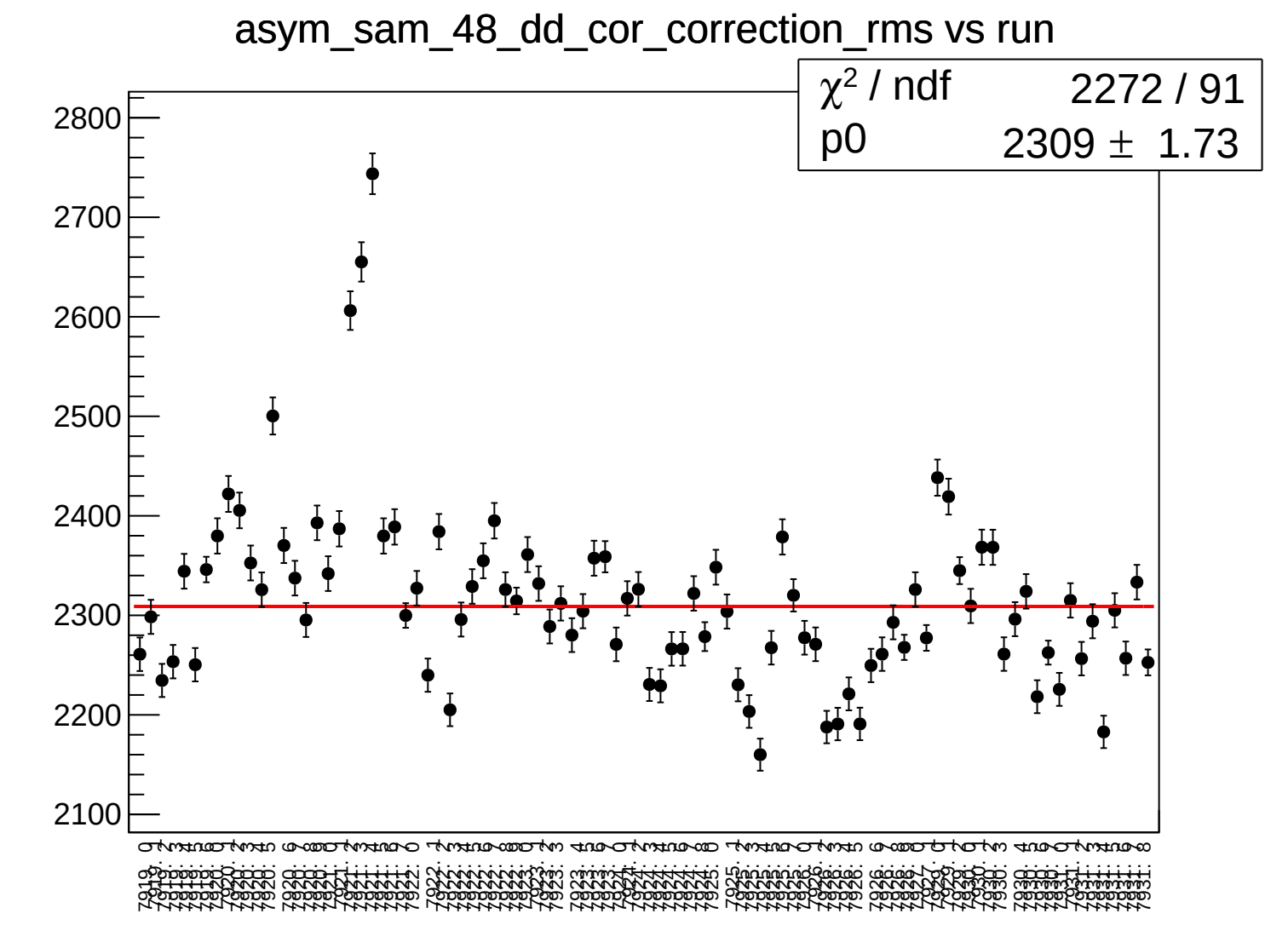

asym_sam_48_dd_reg_correction_rms vs run
χ² / ndf 2272 / 91
p0 2309 ± 1.73
2800
2700
2600
2500
2400
2300
2200
2100

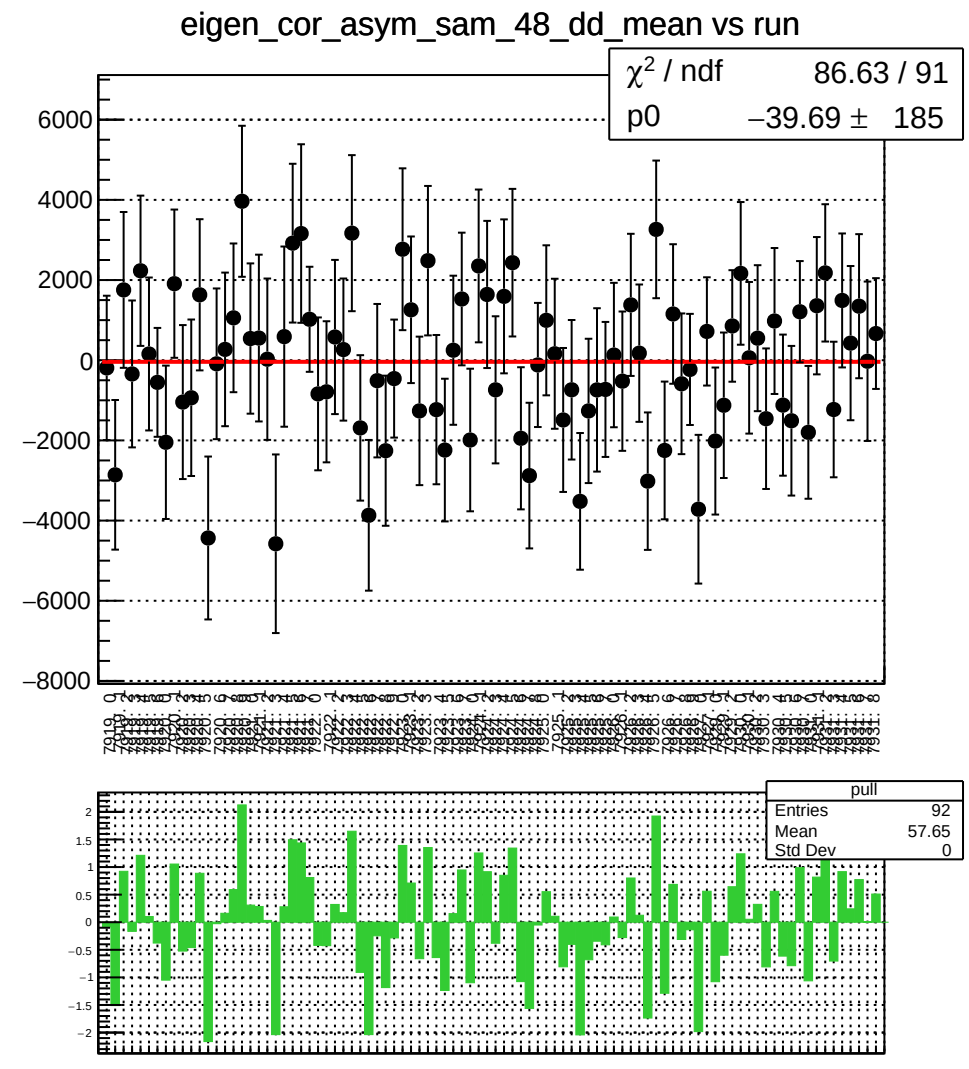

cor_asym_sam_48_dd_mean vs run
χ² / ndf 86.63 / 91
p0 −39.69 ± 185
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 92
Mean 57.65
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean −0.007422
Std Dev 0.9704
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

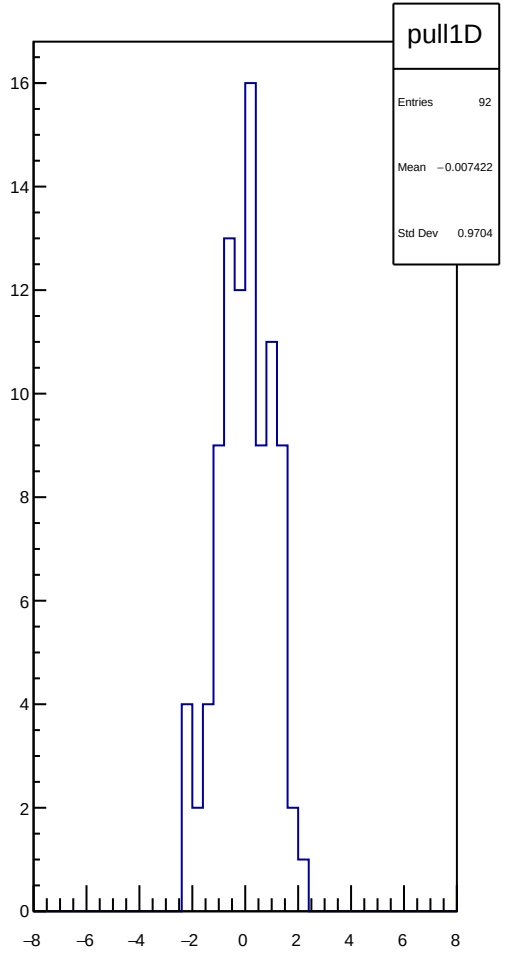

cor_asym_sam_48_dd_rms vs run
χ² / ndf 5268 / 91
p0 174.4 ± 0.1308
220
210
200
190
180
170
160

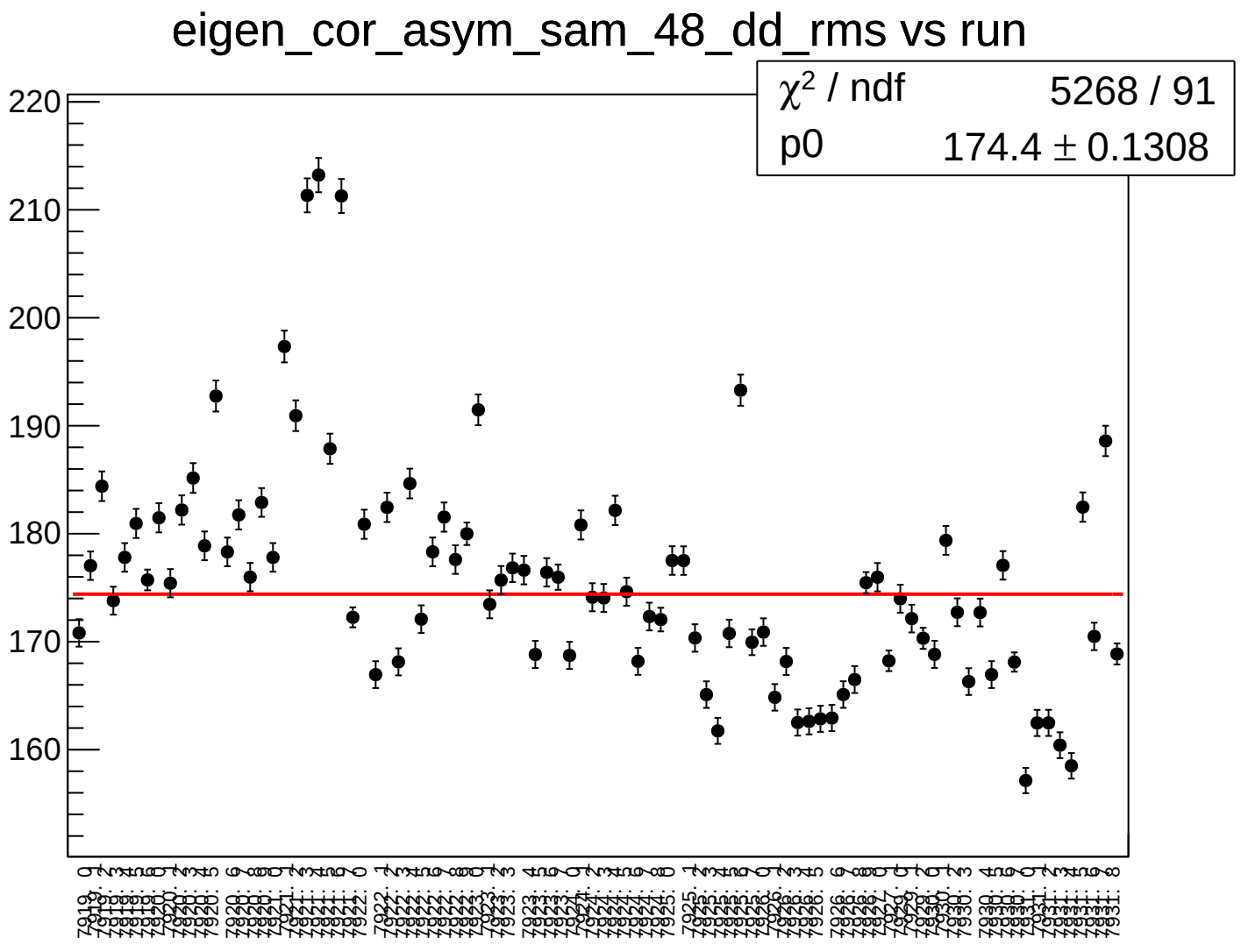

asym_sam_48_dd_cor_correction_mean vs run
χ² / ndf 103 / 91
p0 −4739 ± 2447
×10³
pull
Entries 92
Mean 5158
Std Dev 0

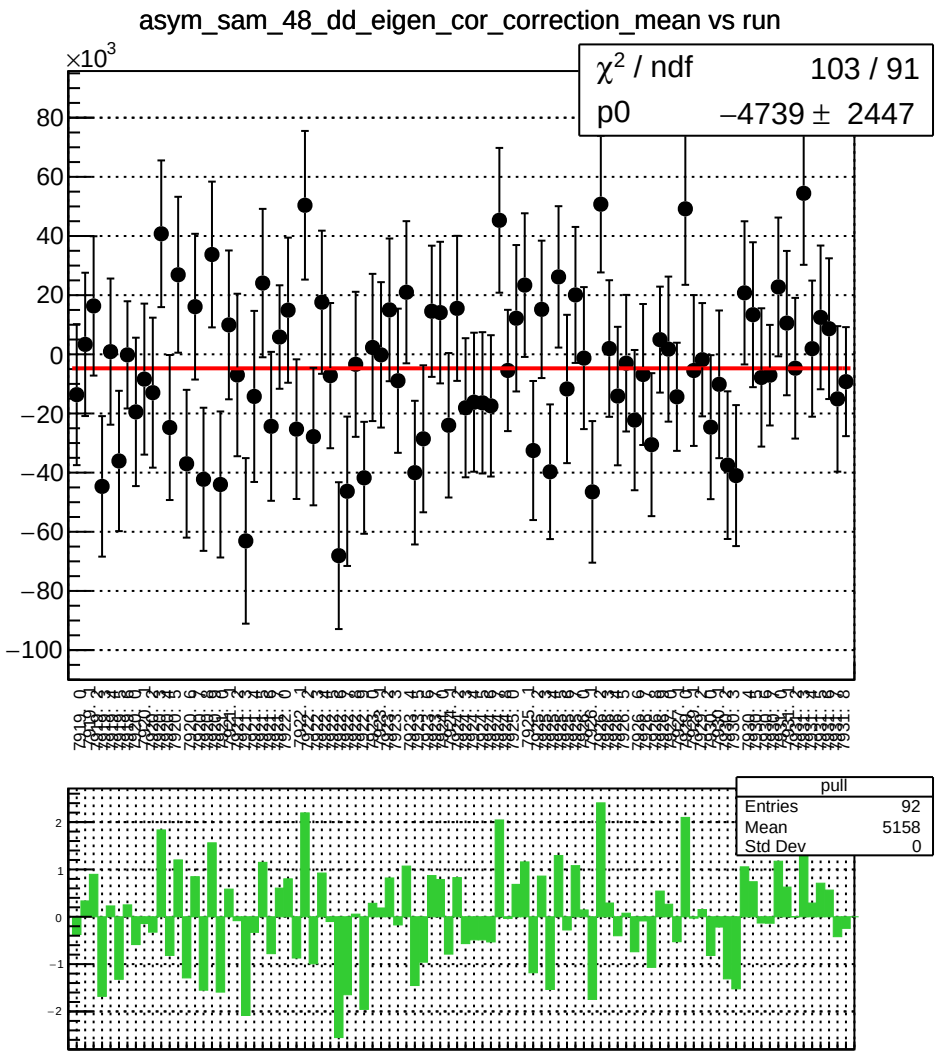

pull1D
Entries 92
Mean 0.0007462
Std Dev 1.058

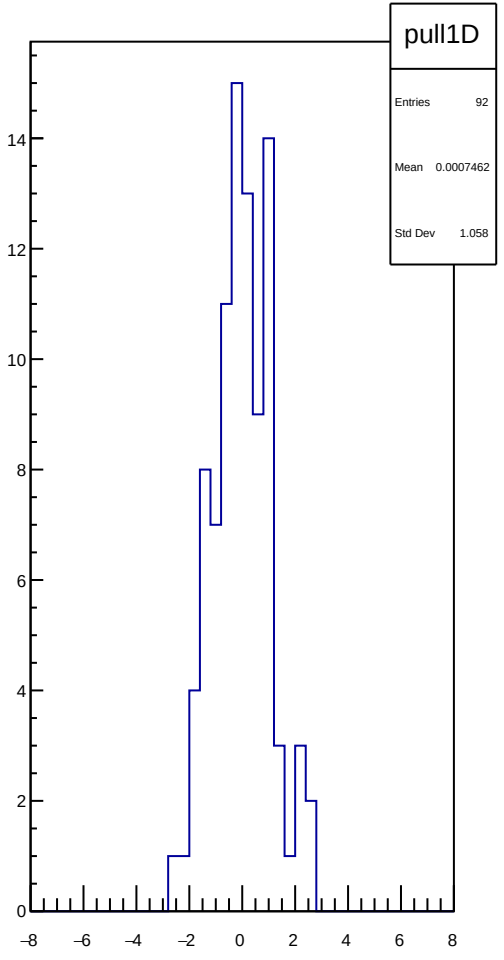

asym_sam_48_dd_cor_correction_rms vs run
χ² / ndf 2272 / 91
p0 2309 ± 1.73
2800
2700
2600
2500
2400
2300
2200
2100

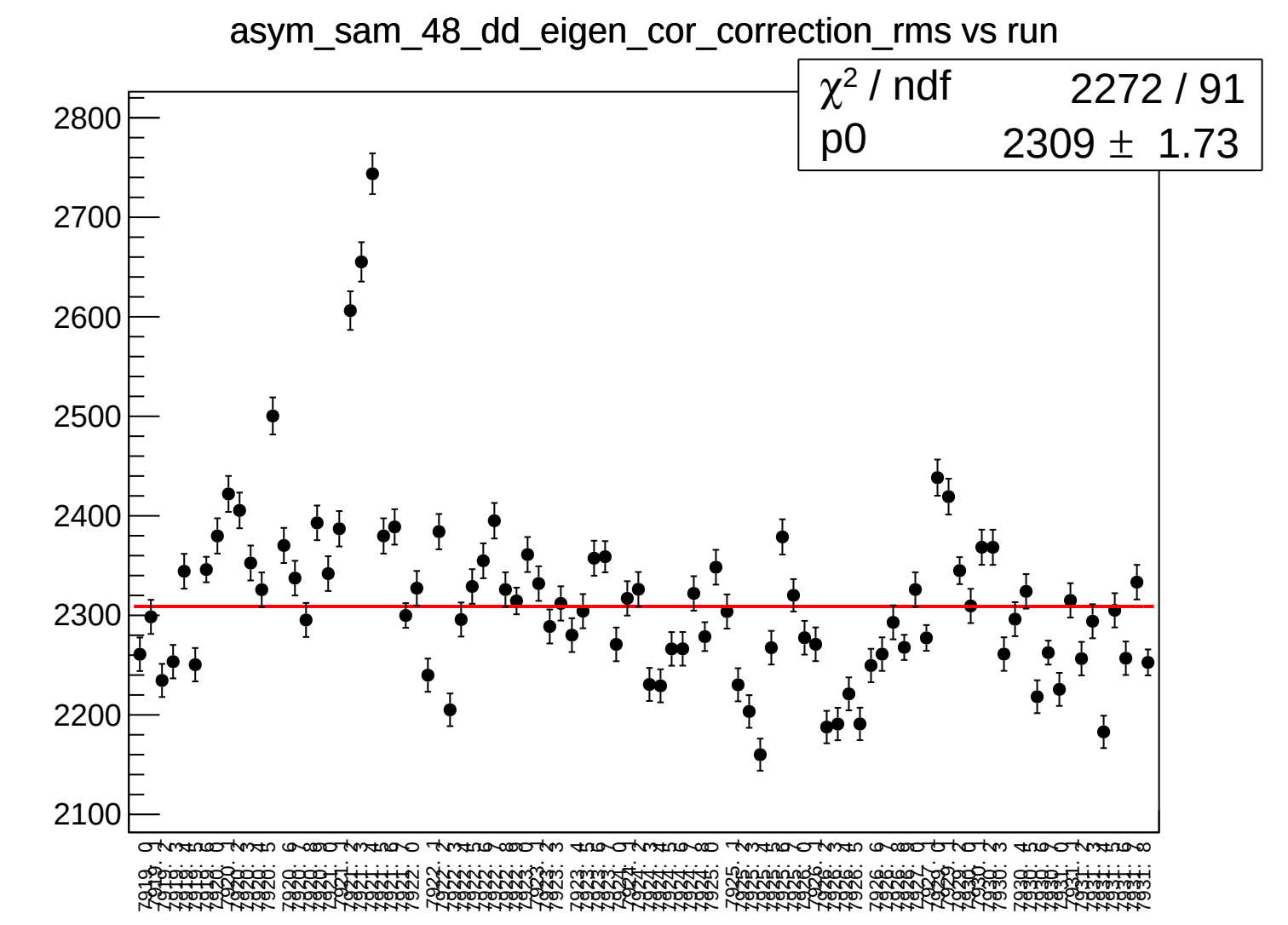

eigen_cor_asym_sam_48_dd_mean vs run
χ² / ndf 86.63 / 91
p0 −39.69 ± 185
pull
Entries 92
Mean 57.65
Std Dev 0

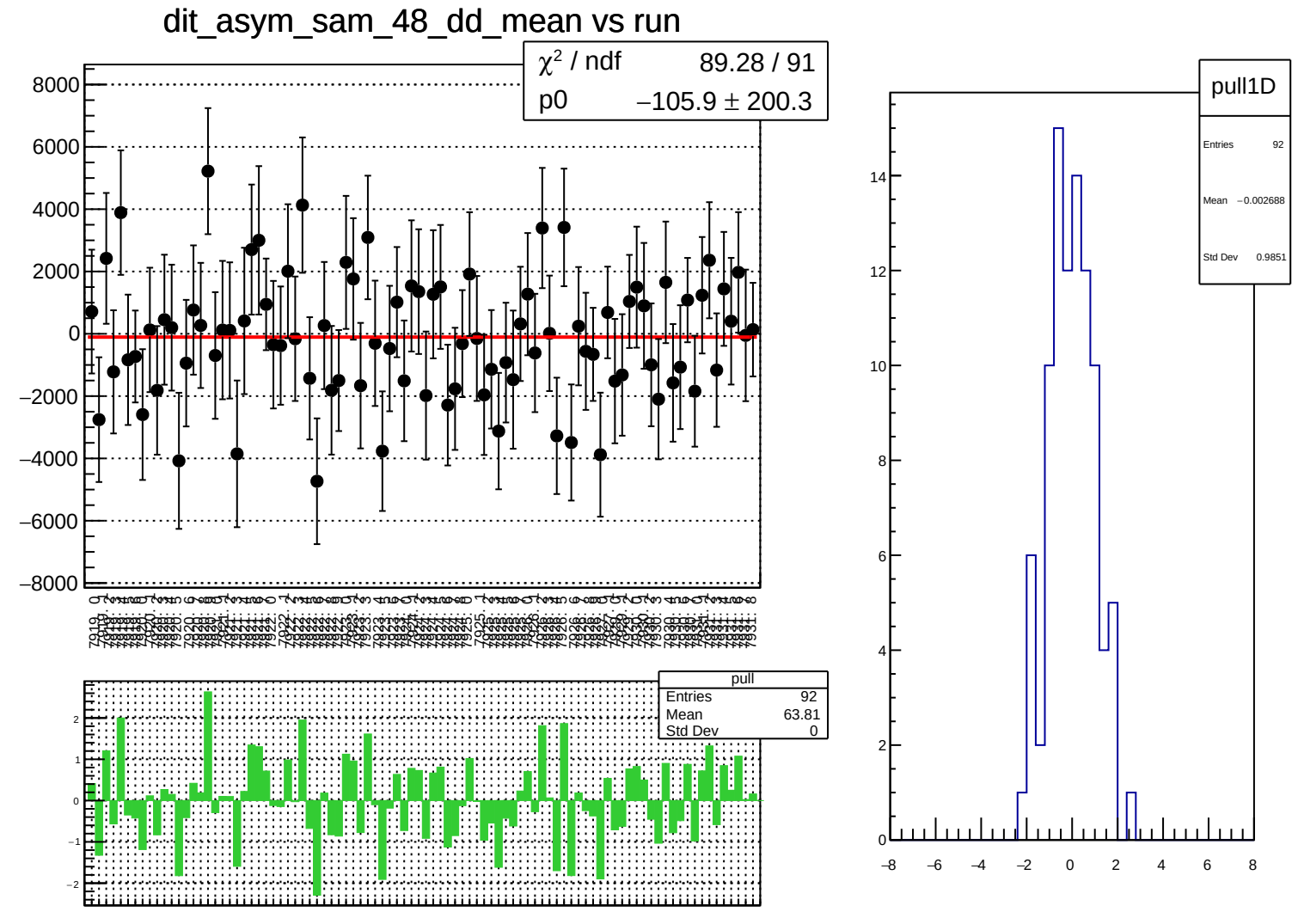

pull1D
Entries 92
Mean −0.007422
Std Dev 0.9704

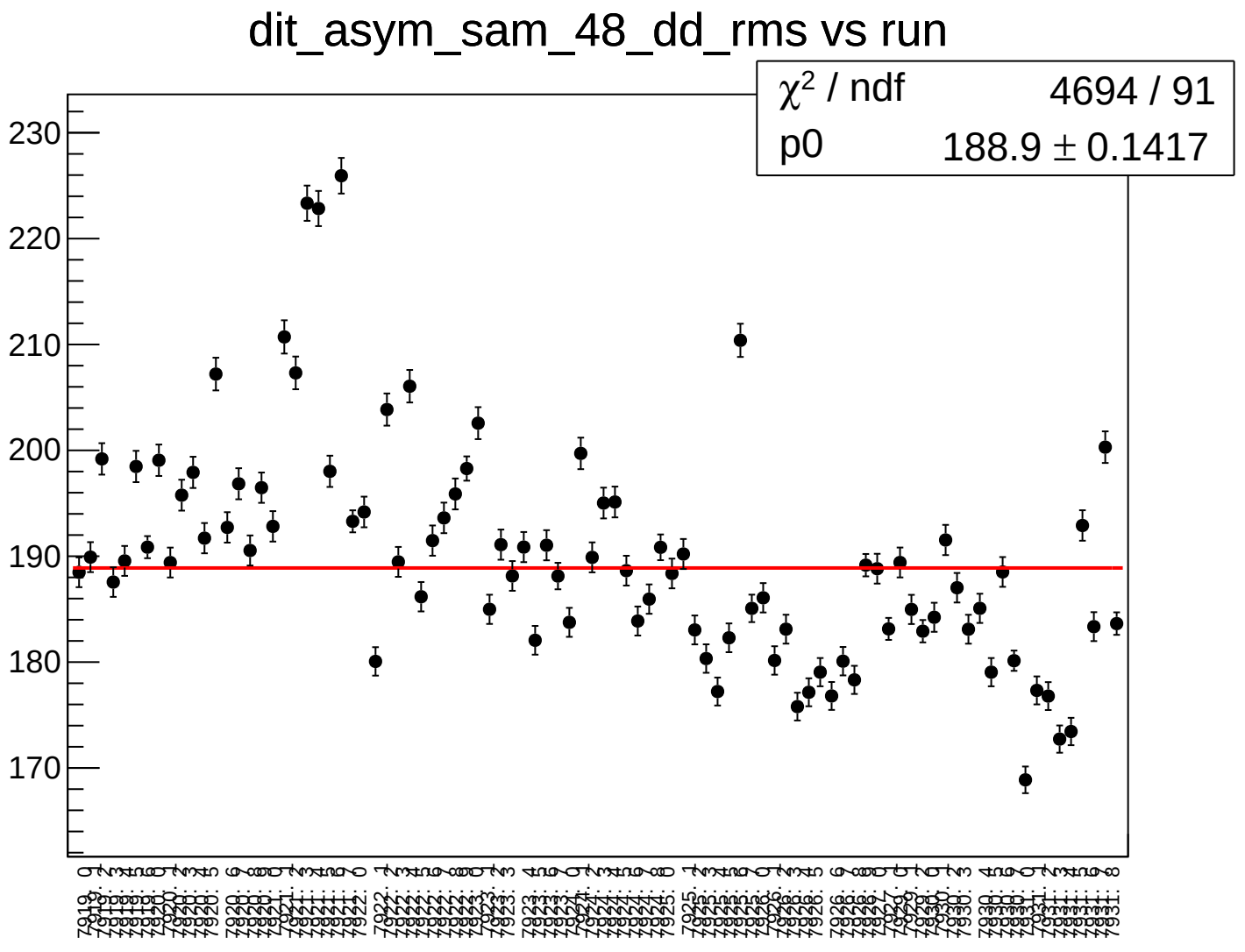

eigen_cor_asym_sam_48_dd_rms vs run
χ² / ndf 5268 / 91
p0 174.4 ± 0.1308
220
210
200
190
180
170
160

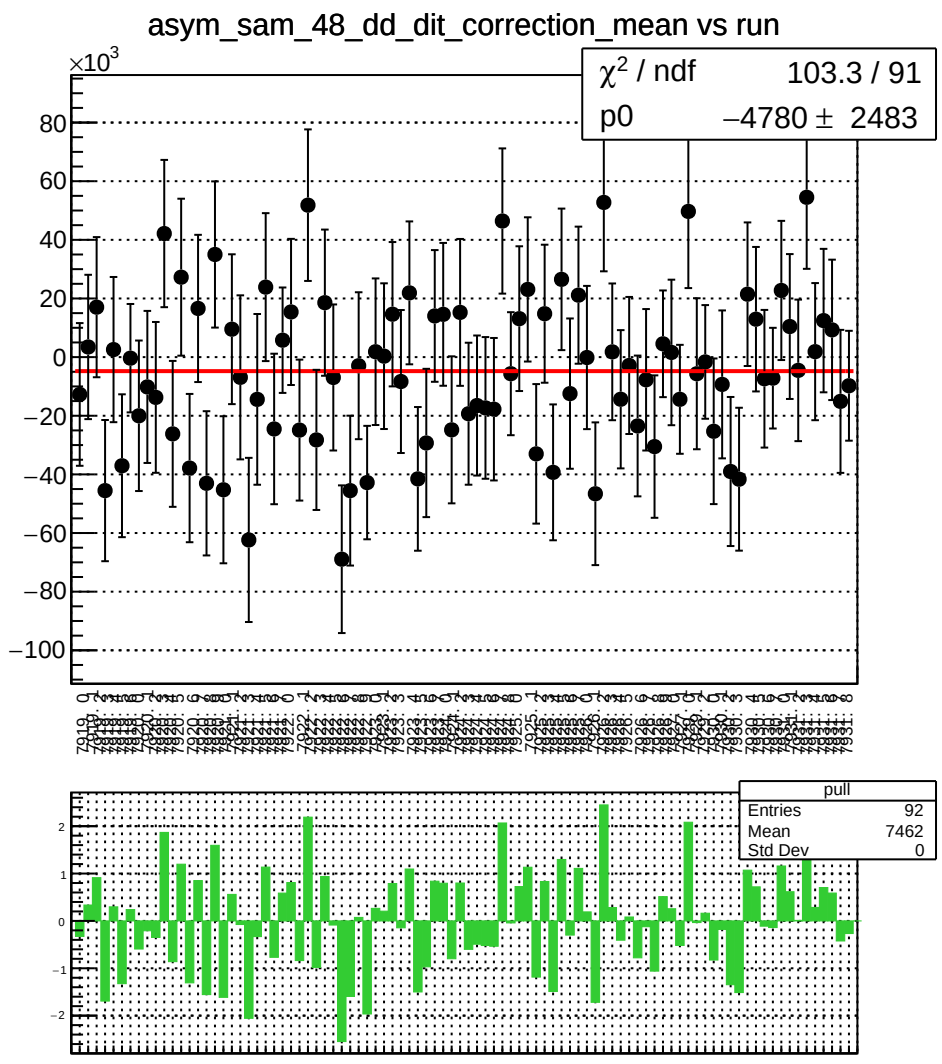

asym_sam_48_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 103 / 91
p0 −4739 ± 2447
pull
Entries 92
Mean 5158
Std Dev 0

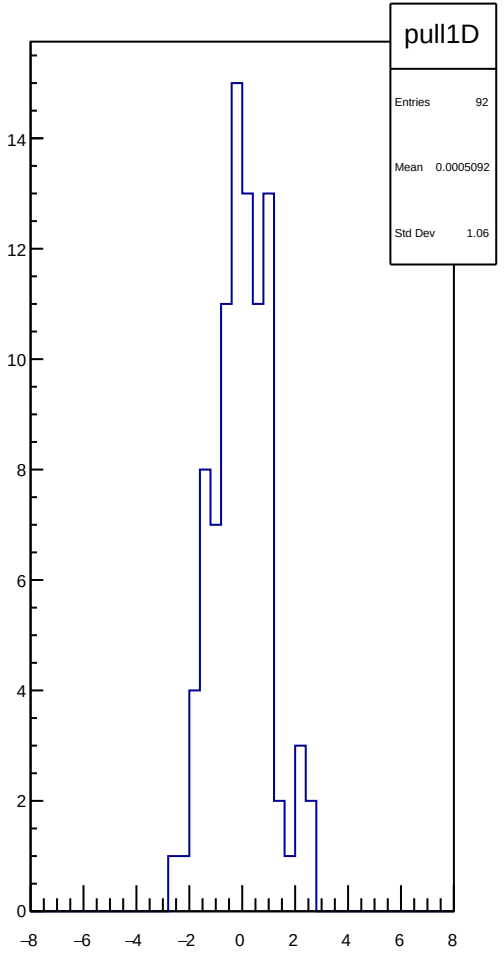

pull1D
Entries 92
Mean 0.0007462
Std Dev 1.058

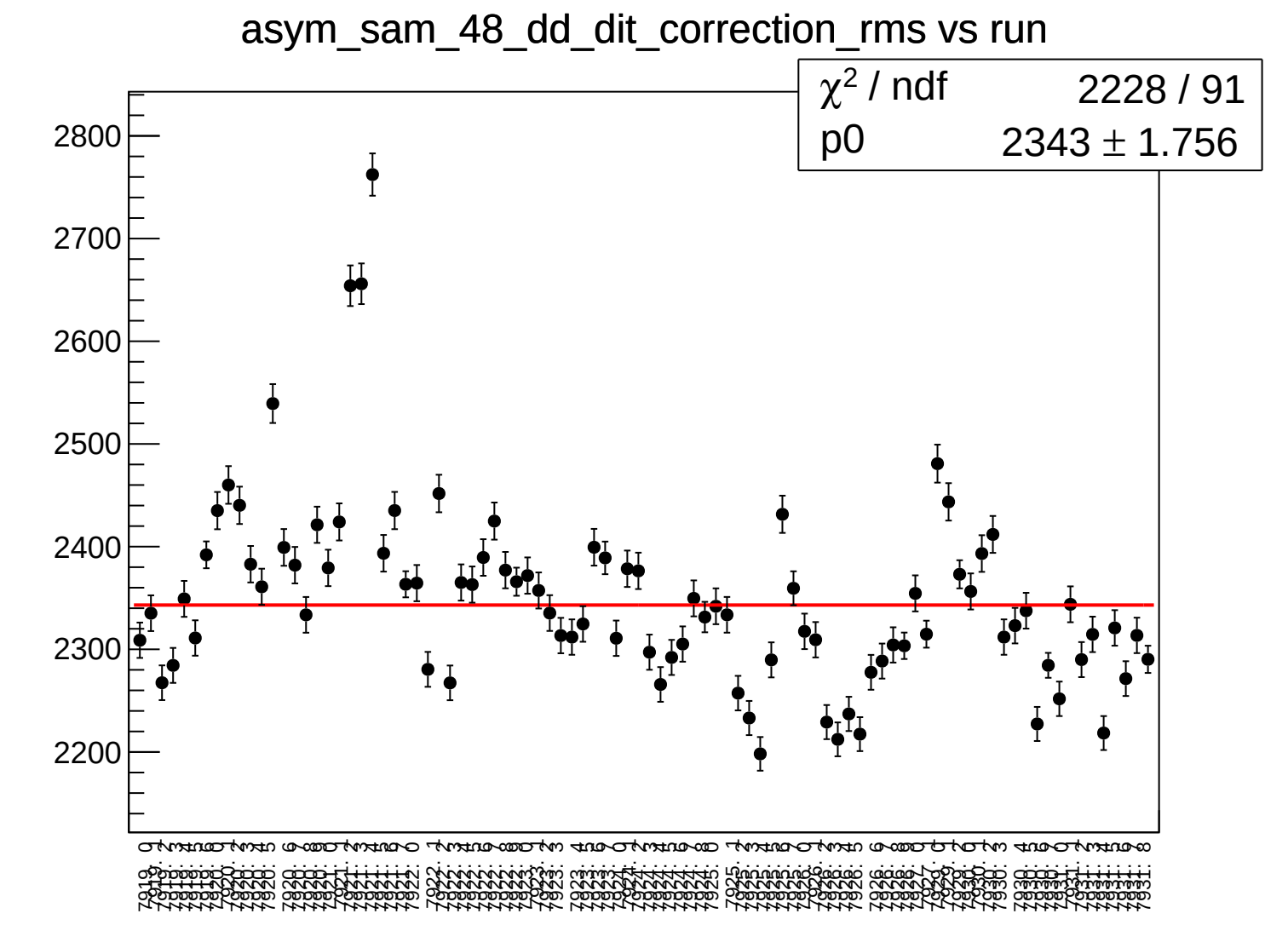

asym_sam_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 2272 / 91
p0 2309 ± 1.73
2800
2700
2600
2500
2400
2300
2200
2100

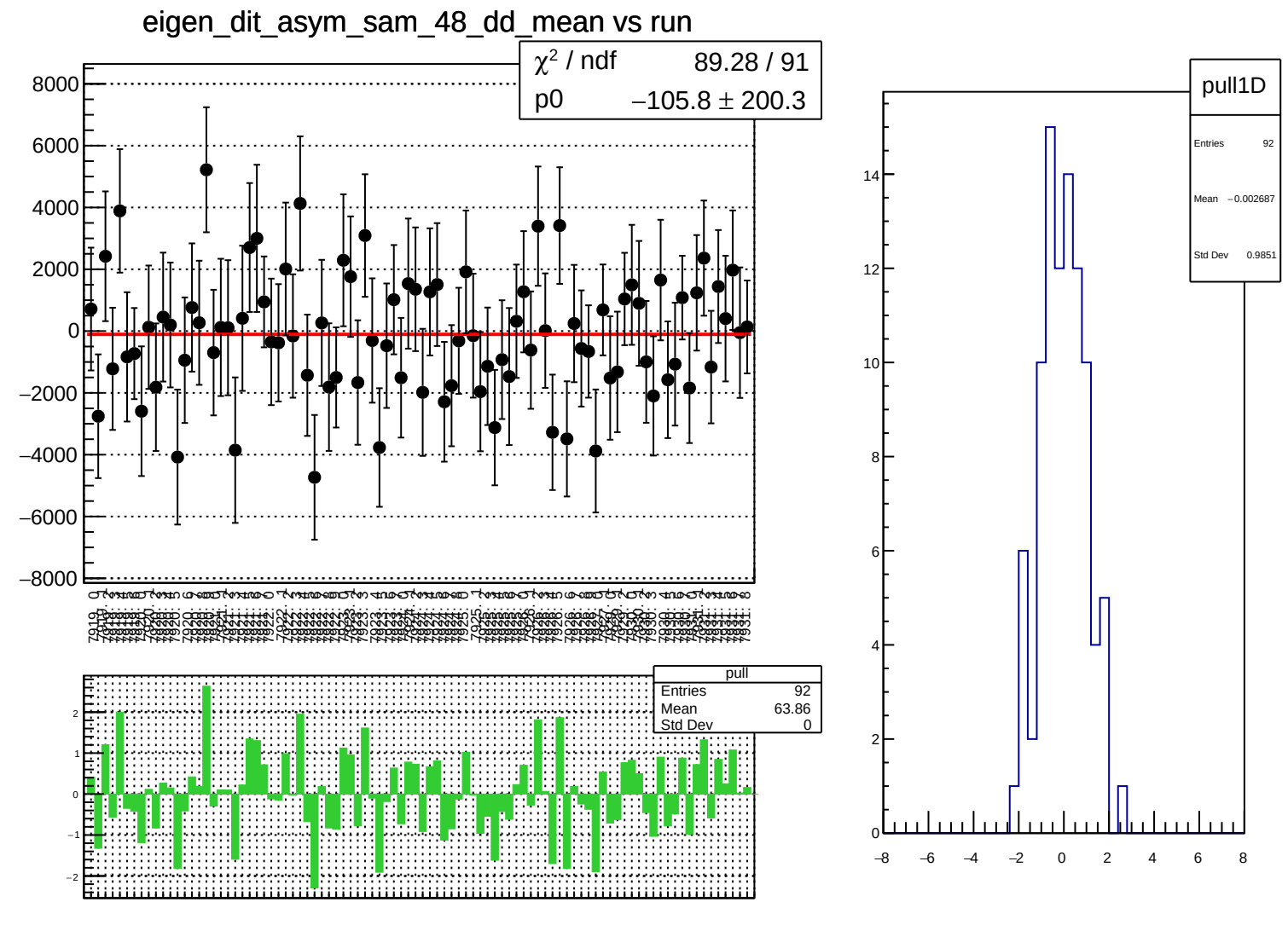

dit_asym_sam_48_dd_mean vs run
χ² / ndf 89.28 / 91
p0 −105.9 ± 200.3
pull
Entries 92
Mean 63.81
Std Dev 0
pull1D
Entries 92
Mean −0.002688
Std Dev 0.9851

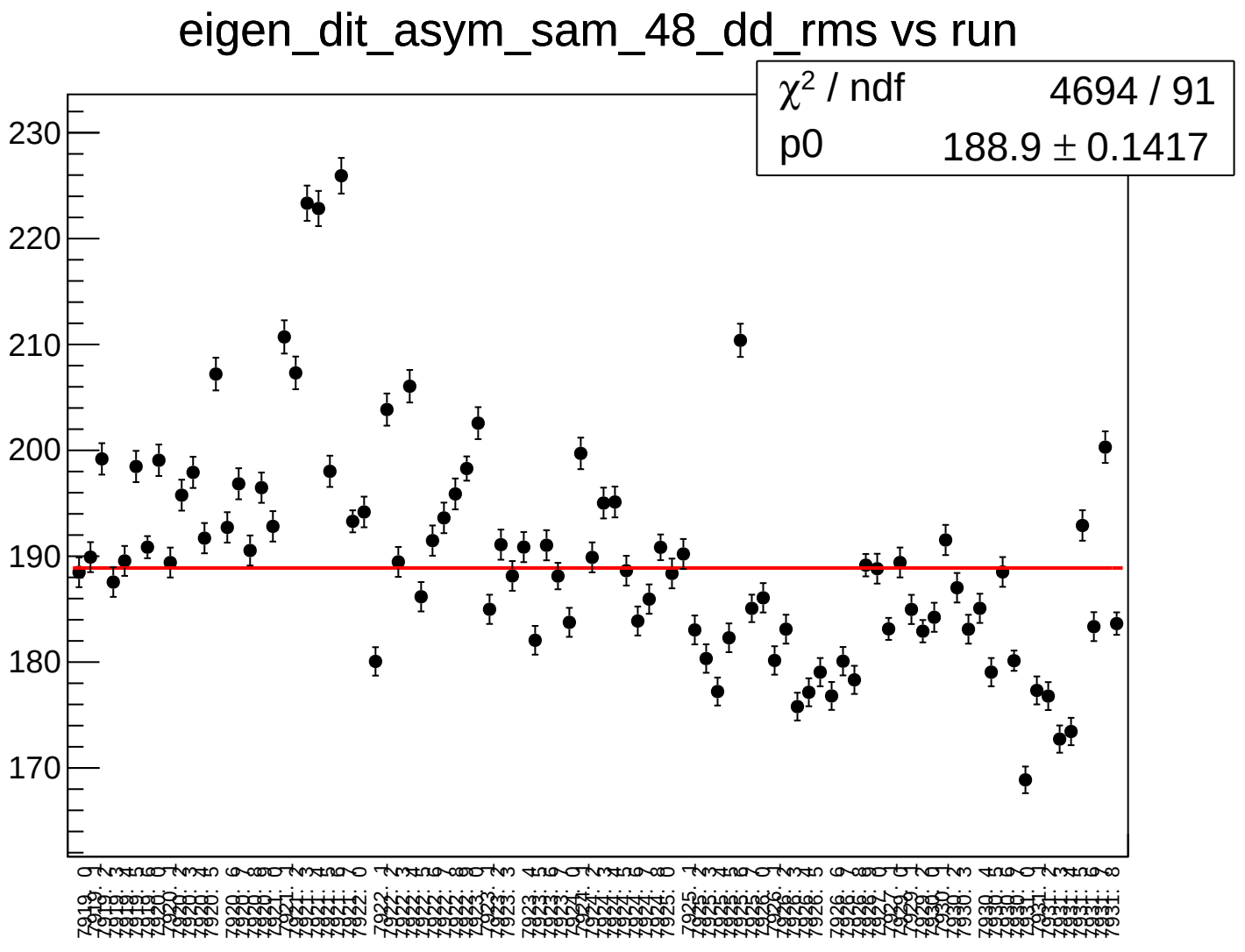

dit_asym_sam_48_dd_rms vs run
χ² / ndf 4694 / 91
p0 188.9 ± 0.1417
230
220
210
200
190
180
170

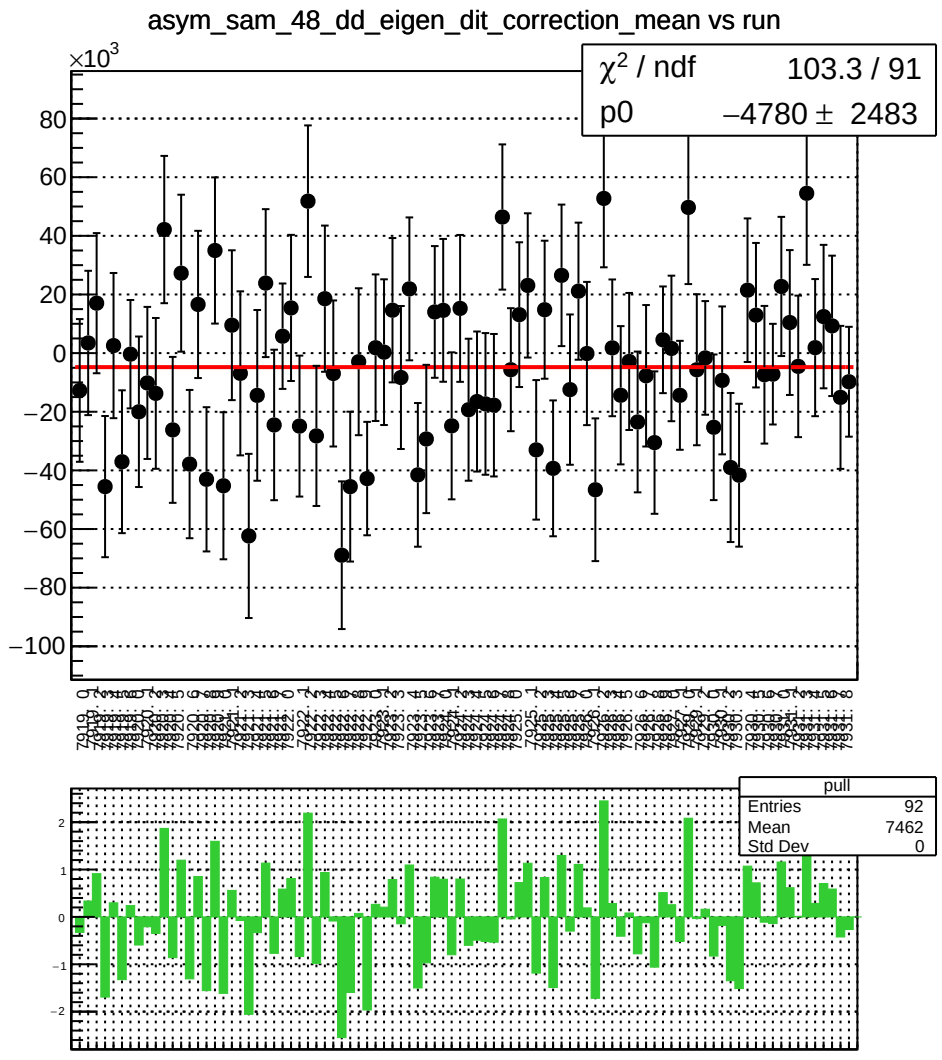

asym_sam_48_dd_dit_correction_mean vs run
×10^3
χ² / ndf 103.3 / 91
p0 −4780 ± 2483
pull
Entries 92
Mean 7462
Std Dev 0

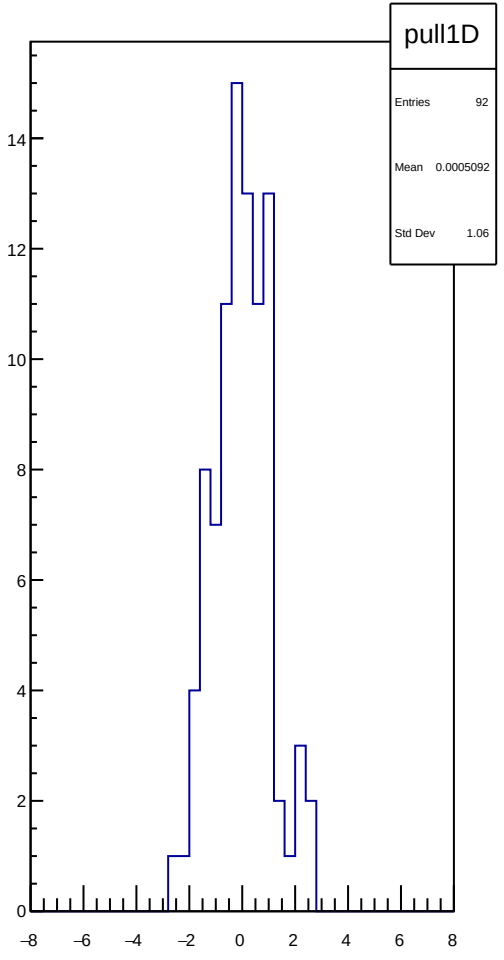

pull1D
Entries 92
Mean 0.0005092
Std Dev 1.06

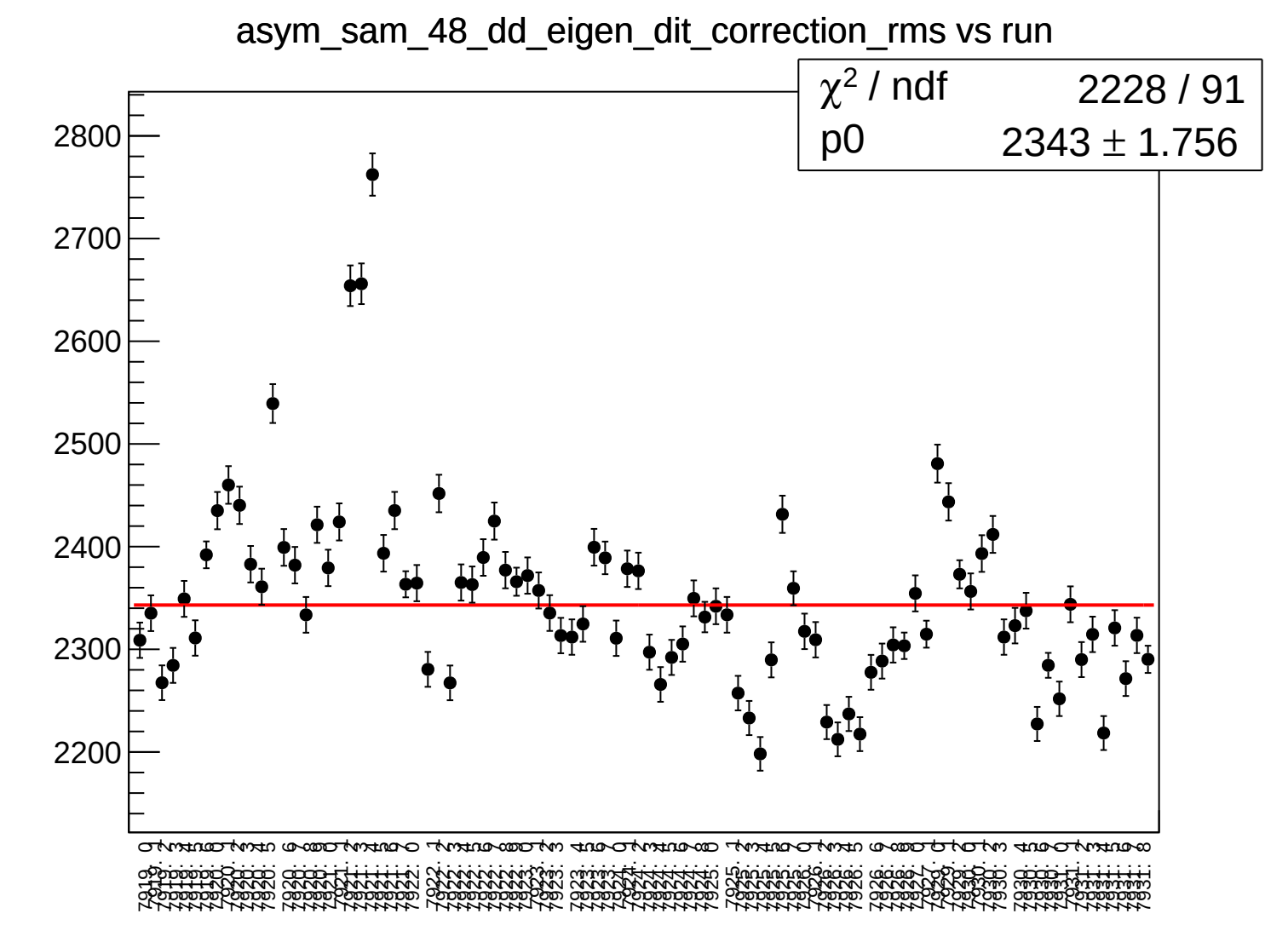

asym_sam_48_dd_dit_correction_rms vs run
χ² / ndf 2228 / 91
p0 2343 ± 1.756
2800
2700
2600
2500
2400
2300
2200

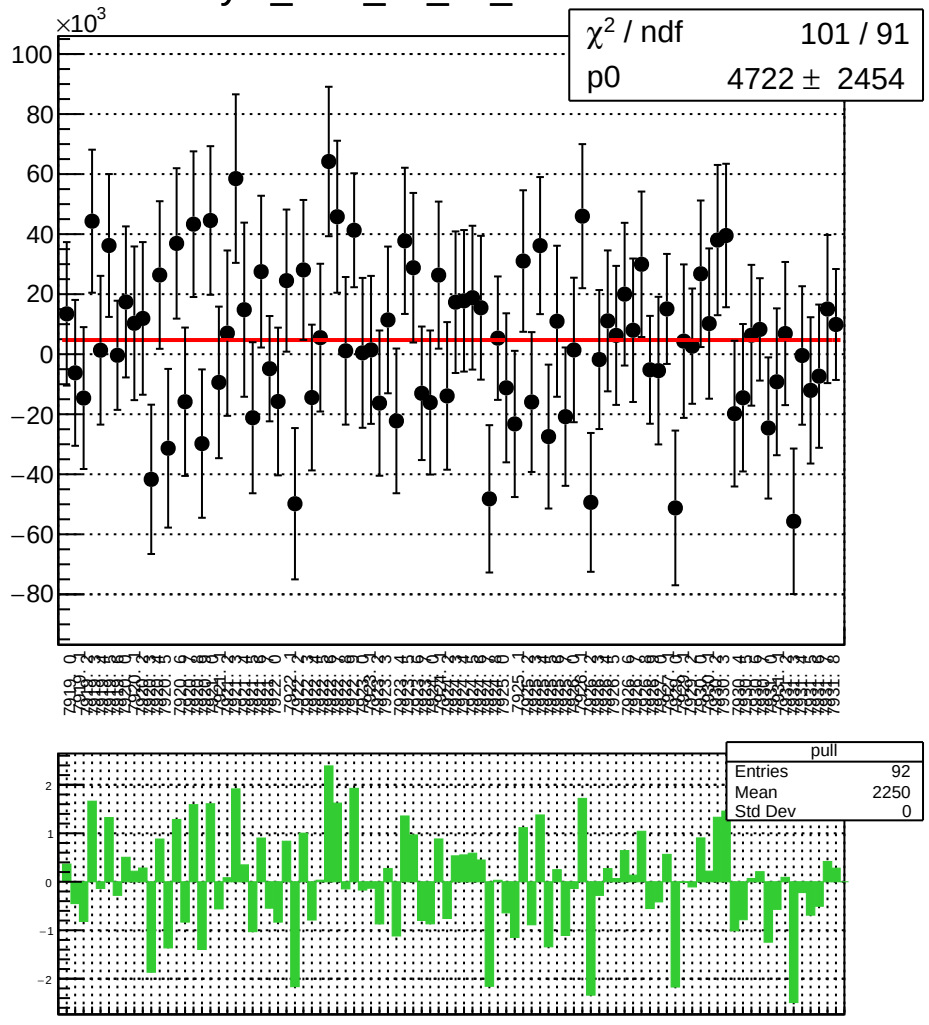

eigen_dit_asym_sam_48_dd_mean vs run
χ² / ndf 89.28 / 91
p0 −105.8 ± 200.3
pull
Entries 92
Mean 63.86
Std Dev 0
pull1D
Entries 92
Mean −0.002687
Std Dev 0.9851

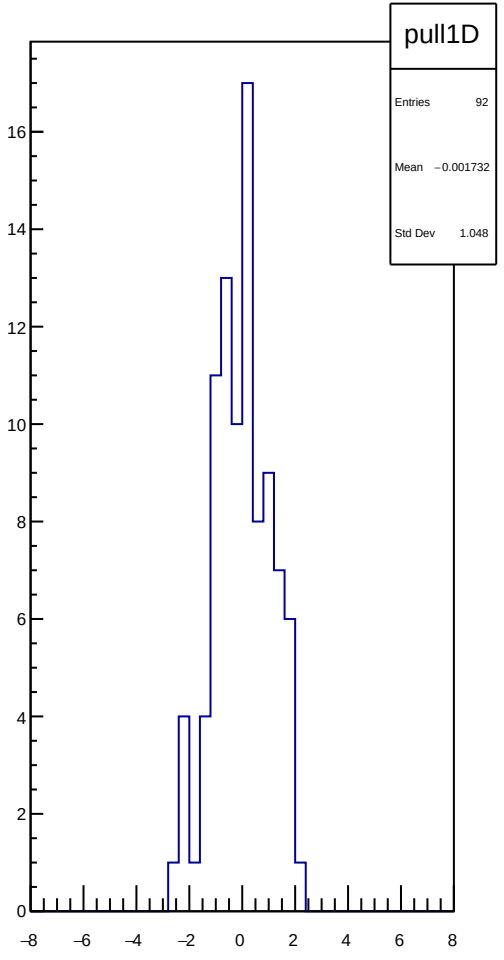

eigen_dit_asym_sam_48_dd_rms vs run
χ^2 / ndf 4694 / 91
p0 188.9 ± 0.1417
230
220
210
200
190
180
170

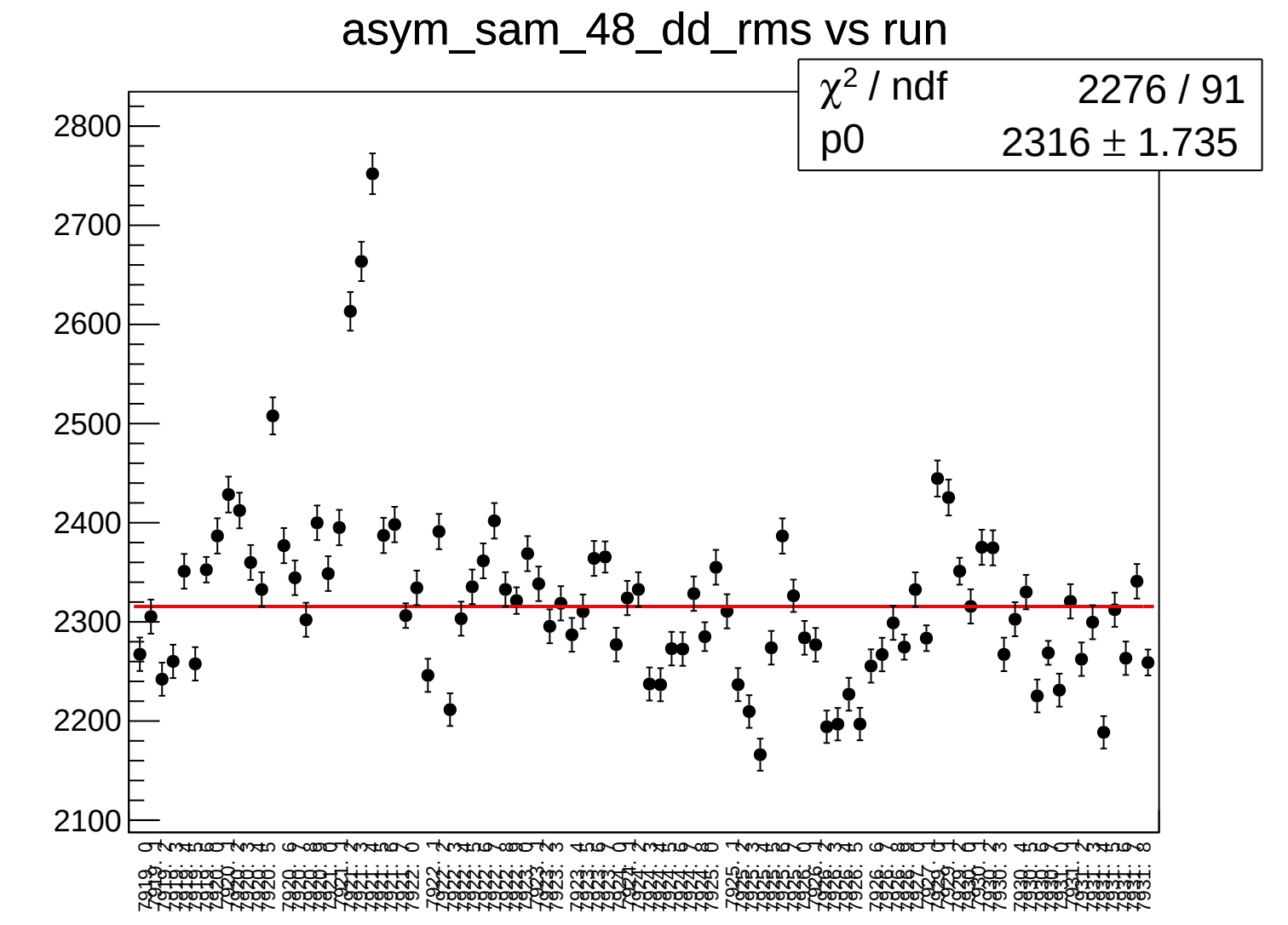

asym_sam_48_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 103.3 / 91
p0 −4780 ± 2483
pull
Entries 92
Mean 7462
Std Dev 0

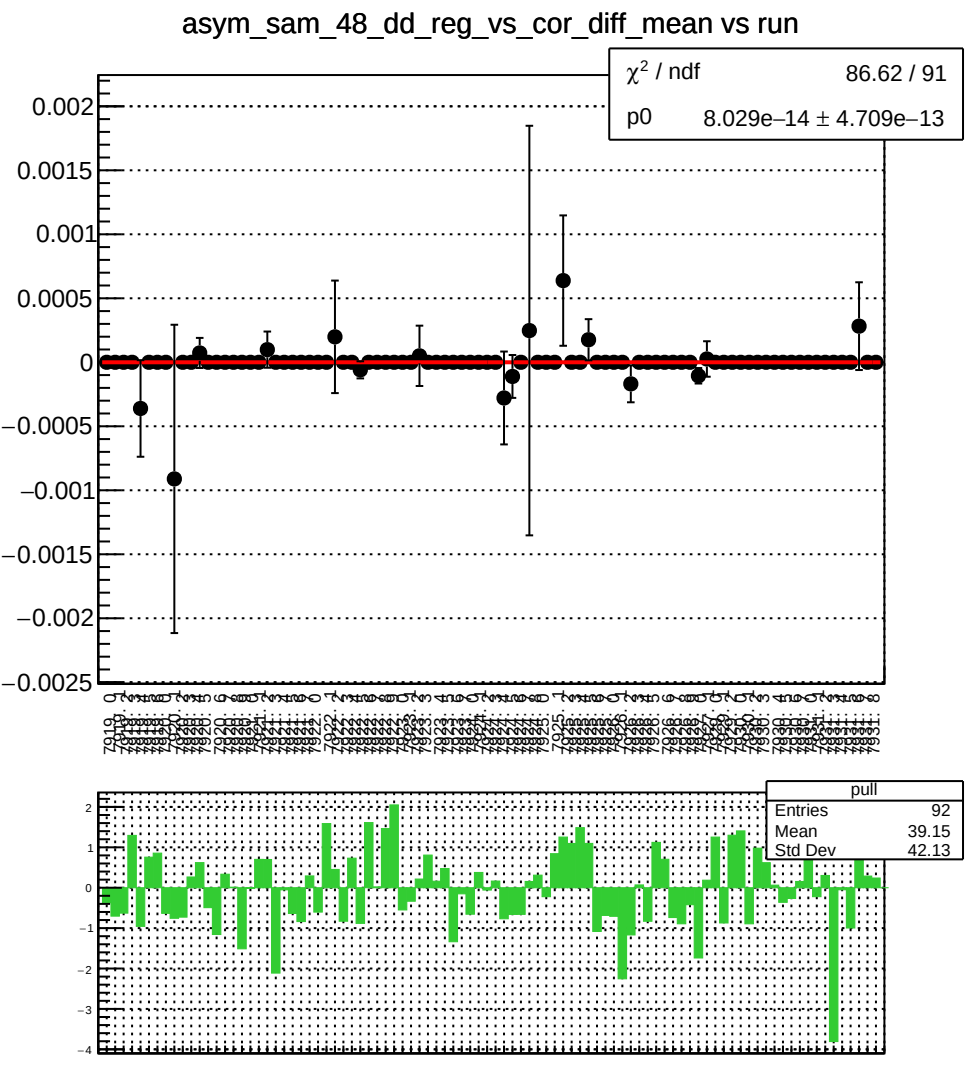

pull1D
Entries 92
Mean 0.0005092
Std Dev 1.06

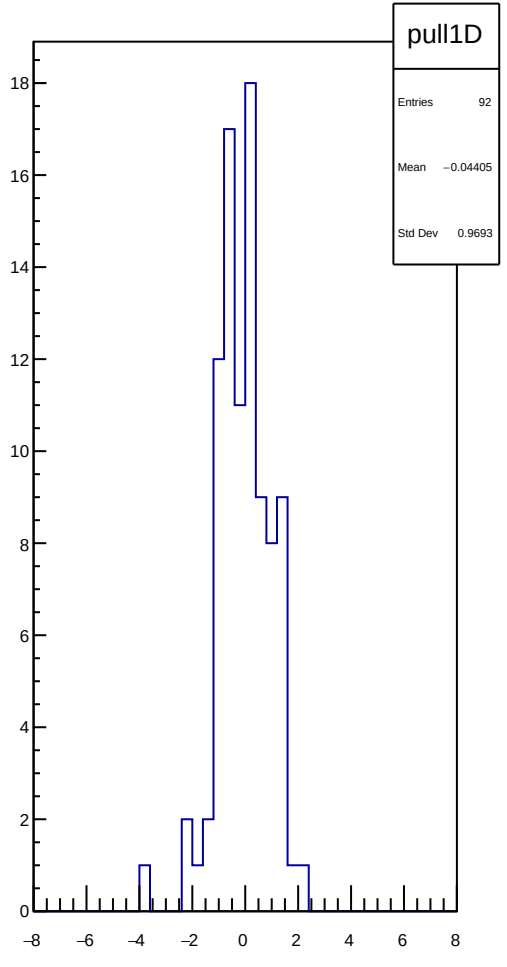

asym_sam_48_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 2228 / 91
p0 2343 ± 1.756
2800
2700
2600
2500
2400
2300
2200

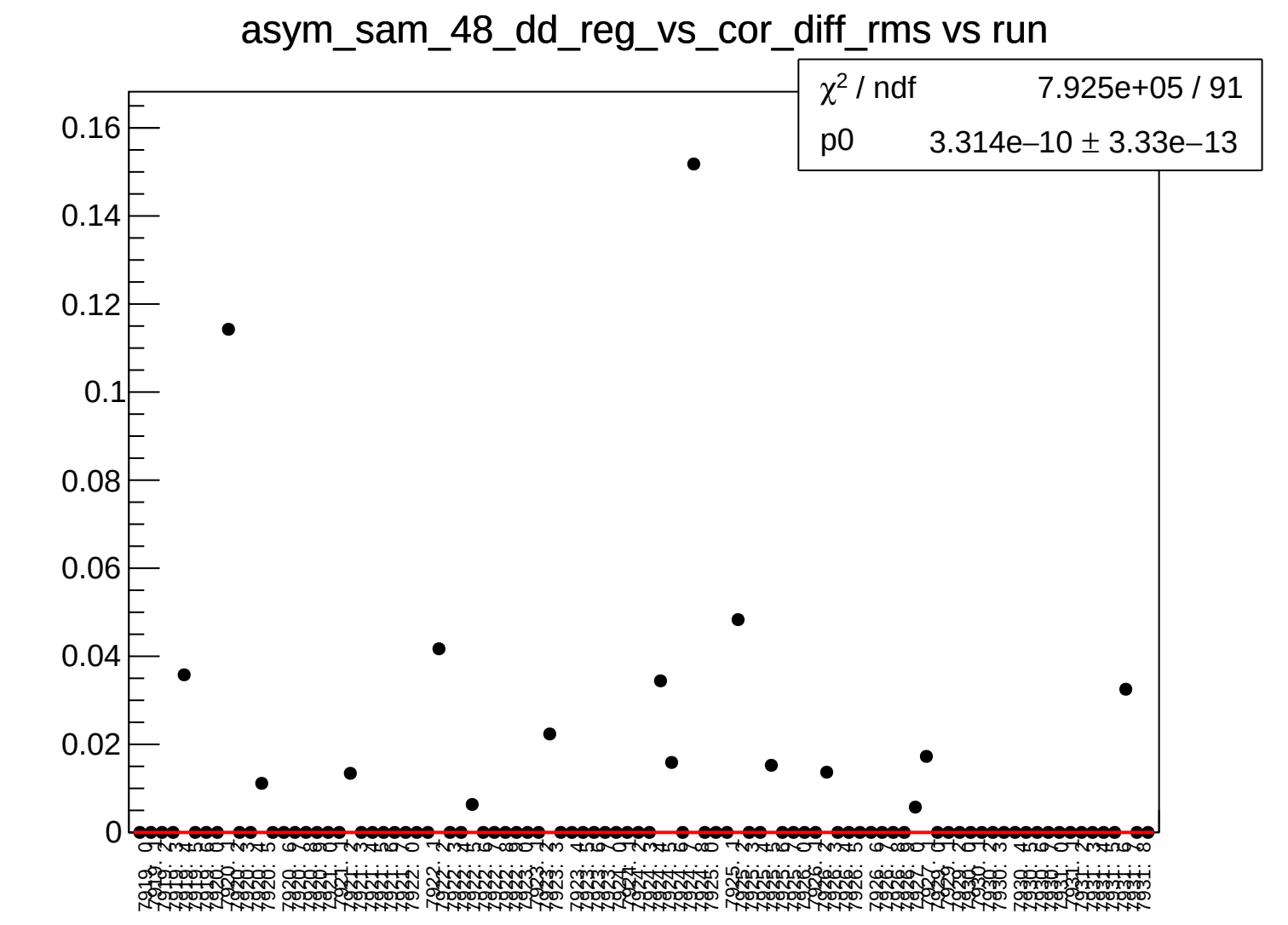

asym_sam_48_dd_mean vs run
×10^3
χ² / ndf 101 / 91
p0 4722 ± 2454
pull
Entries 92
Mean 2250
Std Dev 0

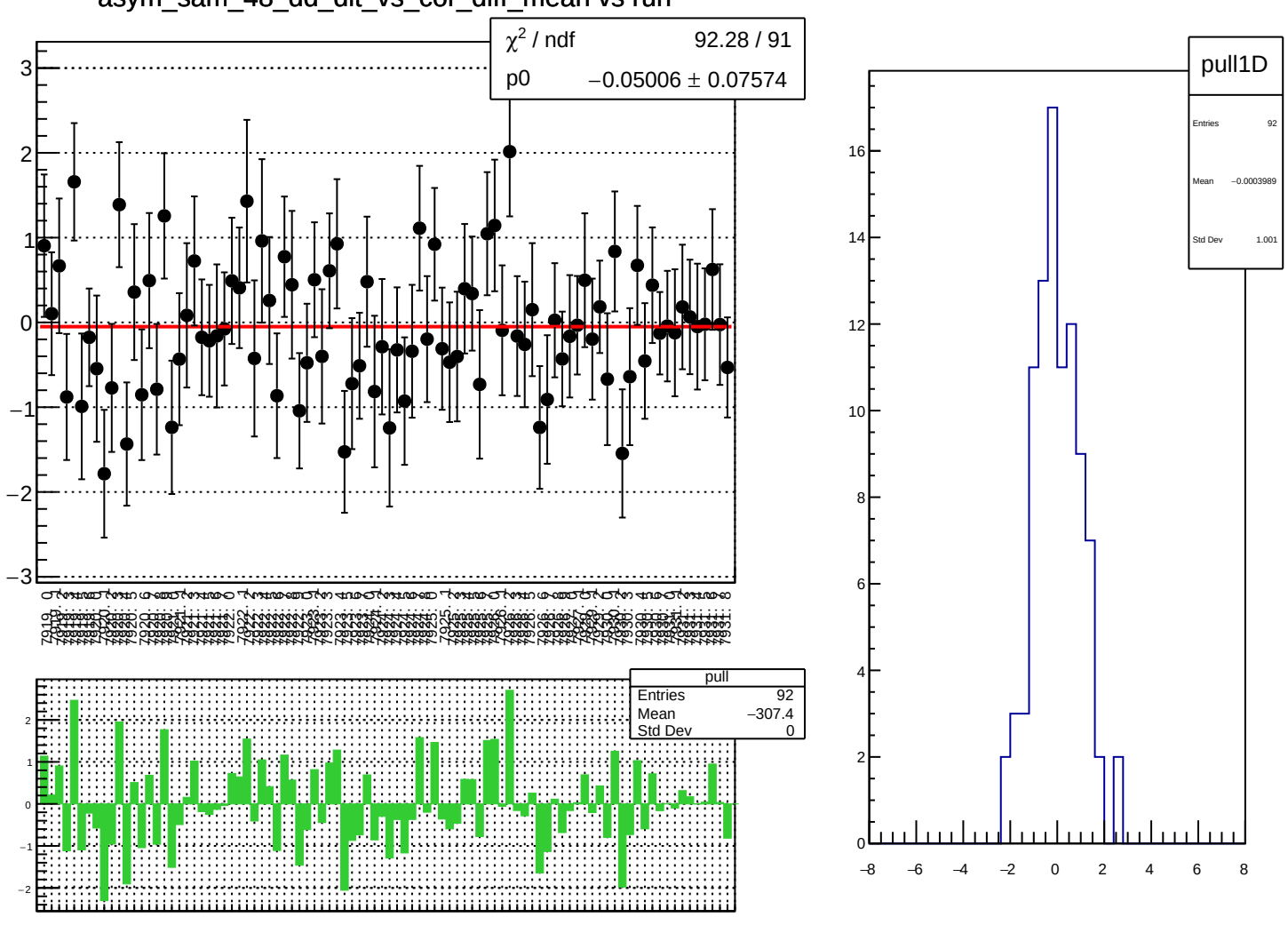

pull1D
Entries 92
Mean −0.001732
Std Dev 1.048

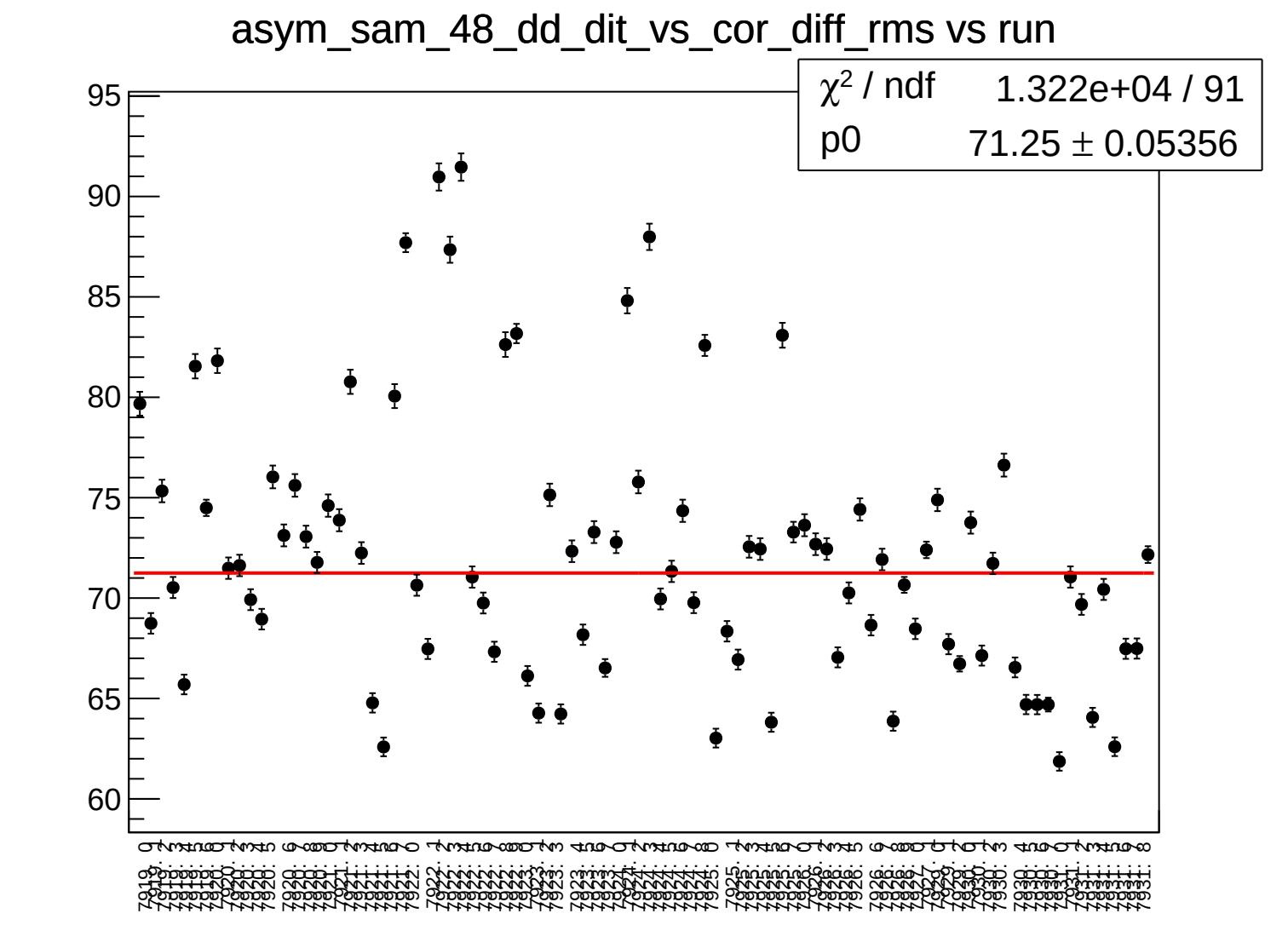

asym_sam_48_dd_rms vs run
χ^2 / ndf 2276 / 91
p0 2316 ± 1.735
2800
2700
2600
2500
2400
2300
2200
2100

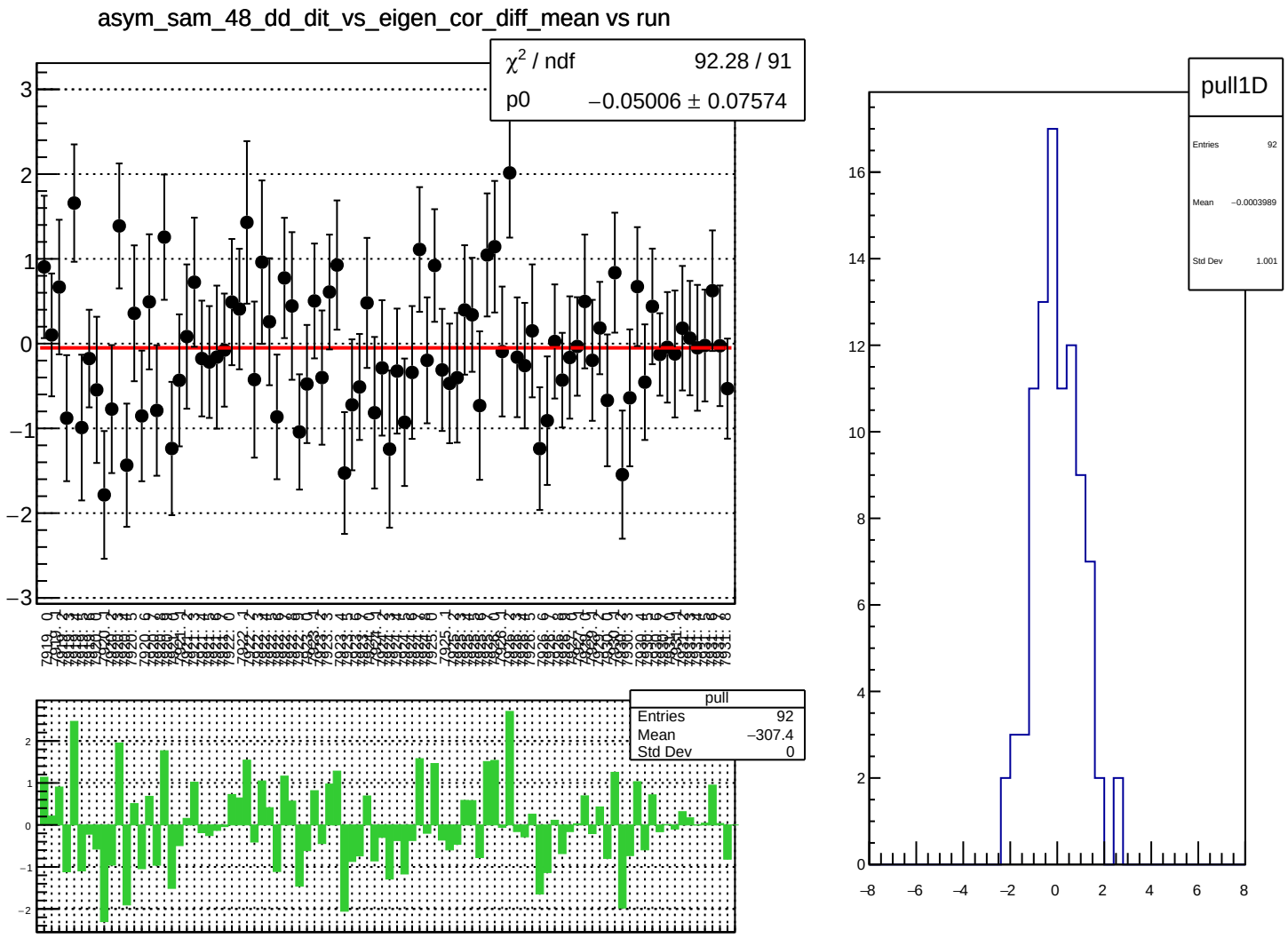

asym_sam_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 86.62 / 91
p0 8.029e−14 ± 4.709e−13
pull
Entries 92
Mean 39.15
Std Dev 42.13

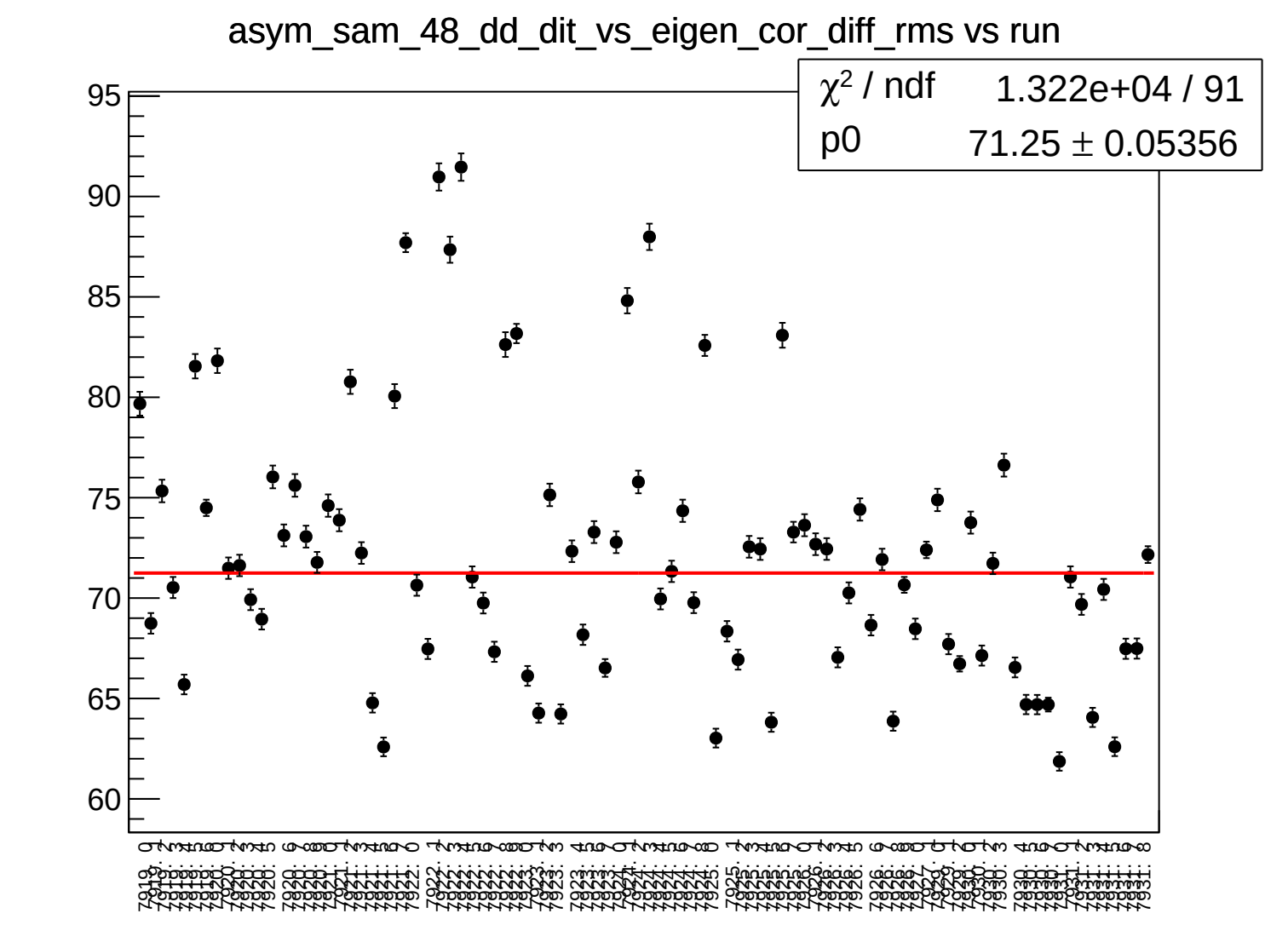

pull1D
Entries 92
Mean −0.04405
Std Dev 0.9693

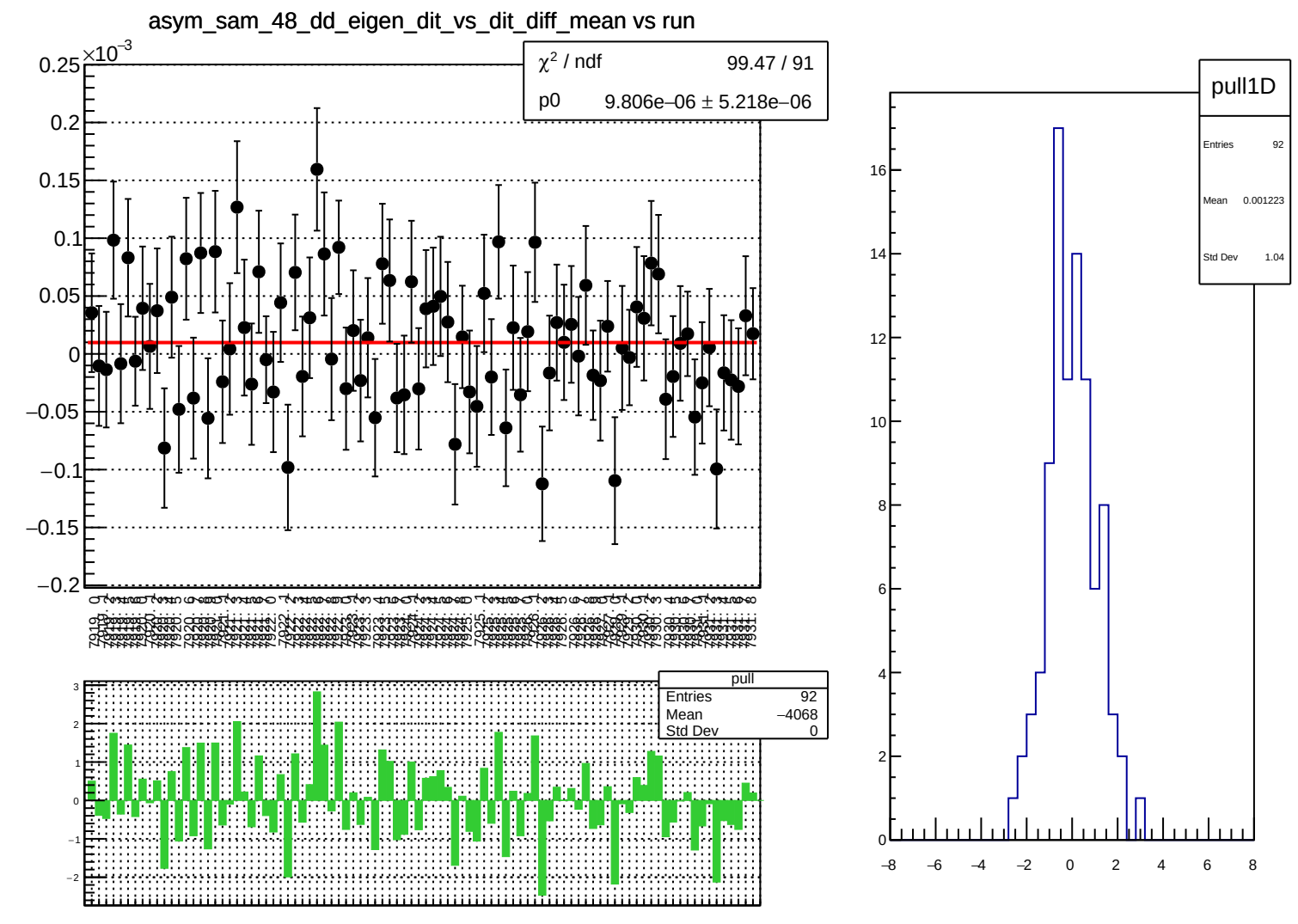

asym_sam_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.925e+05 / 91
p0 3.314e−10 ± 3.33e−13
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

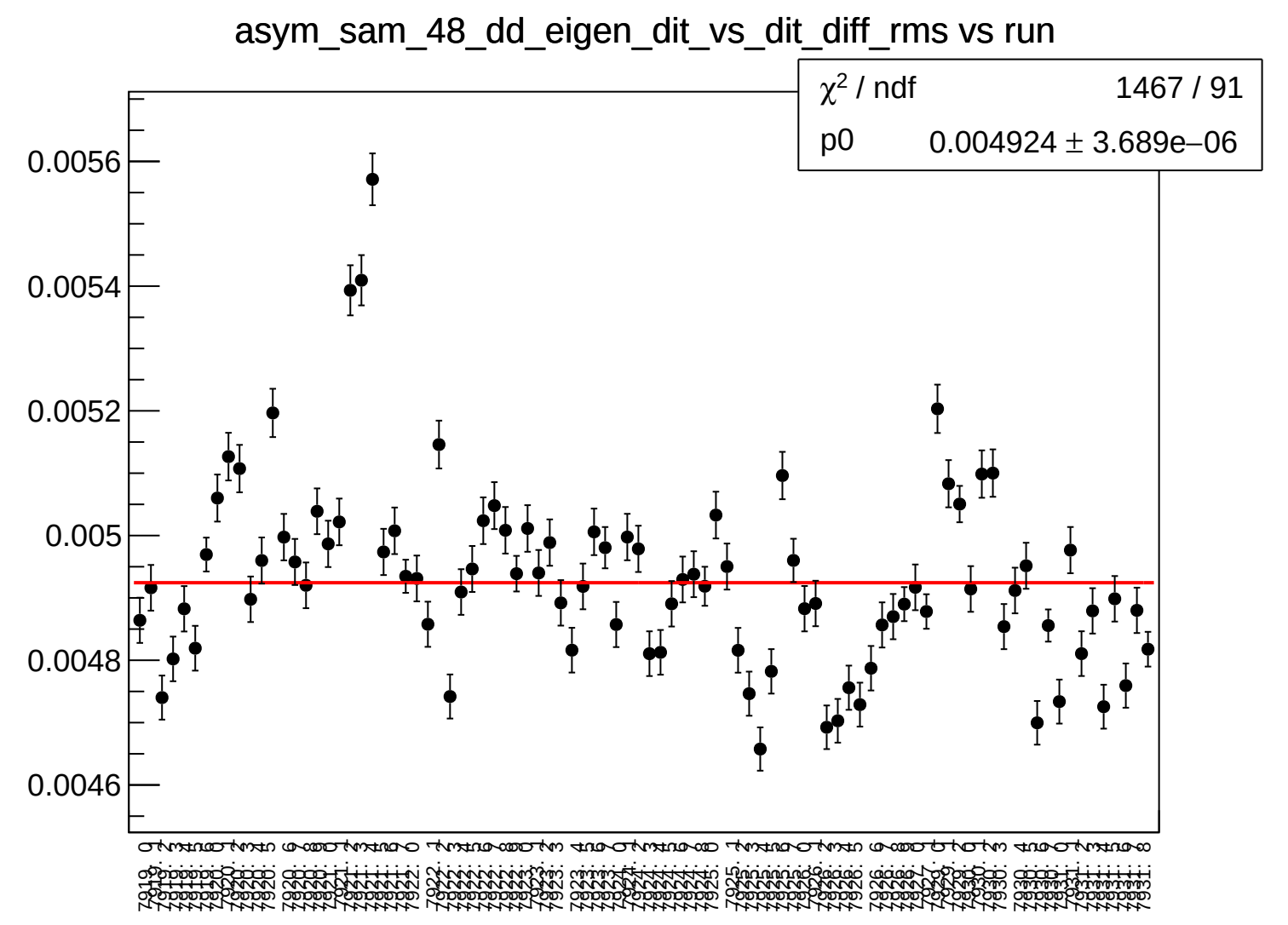

asym_sam_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 92.28 / 91
p0 −0.05006 ± 0.07574
pull
Entries 92
Mean −307.4
Std Dev 0
pull1D
Entries 92
Mean −0.0003989
Std Dev 1.001

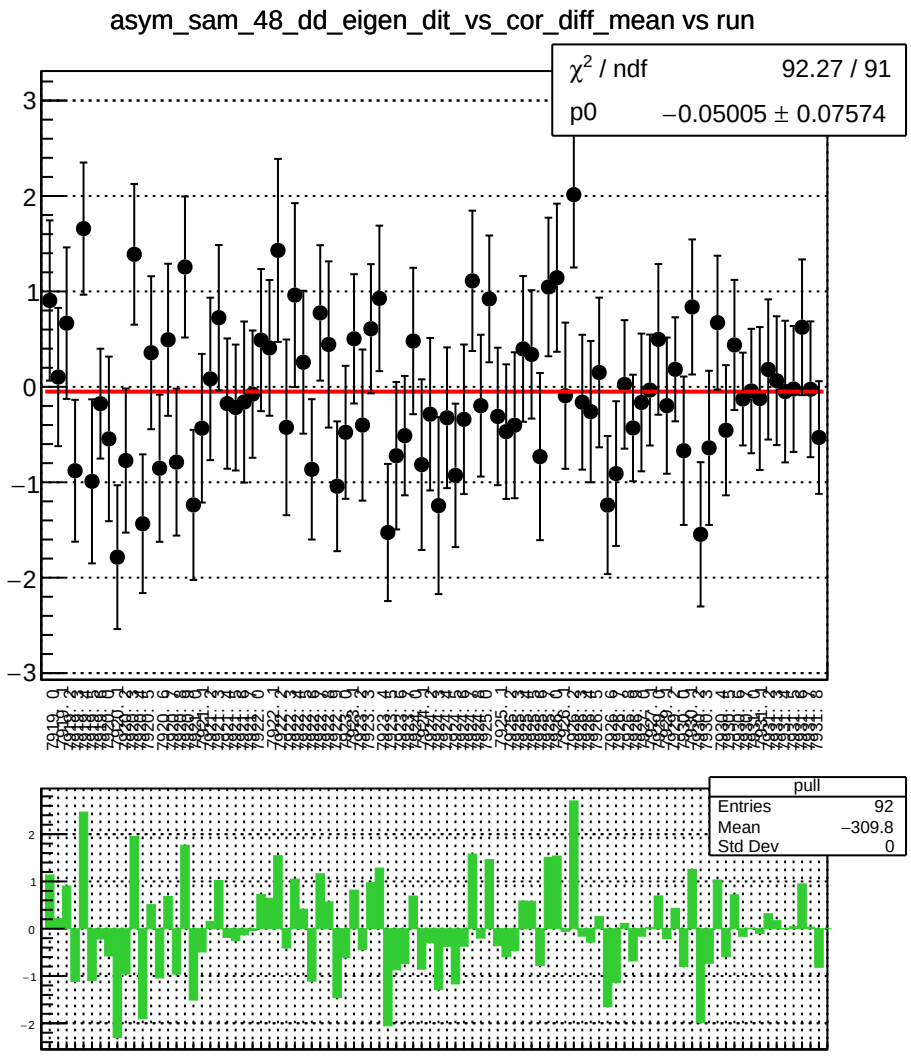

asym_sam_48_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.322e+04 / 91
p0 71.25 ± 0.05356
95
90
85
80
75
70
65
60

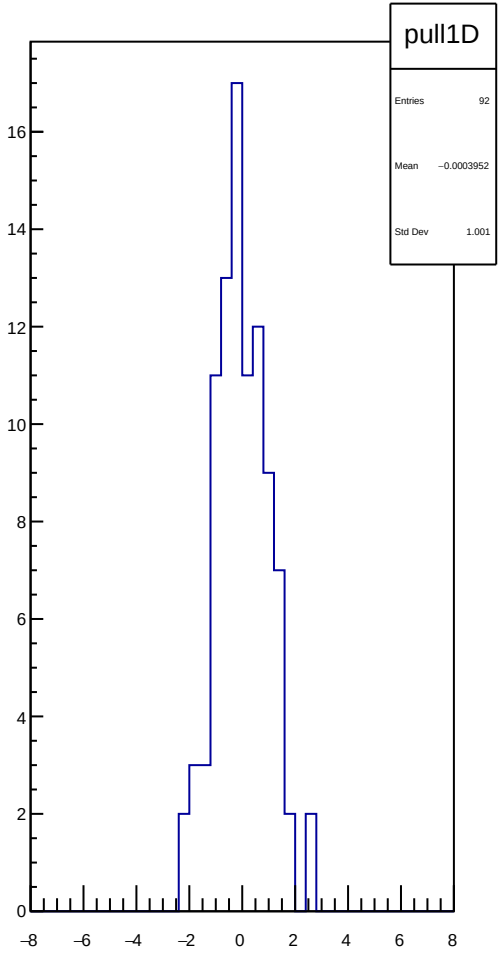

asym_sam_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.28 / 91
p0 −0.05006 ± 0.07574
pull
Entries 92
Mean −307.4
Std Dev 0
pull1D
Entries 92
Mean −0.0003989
Std Dev 1.001

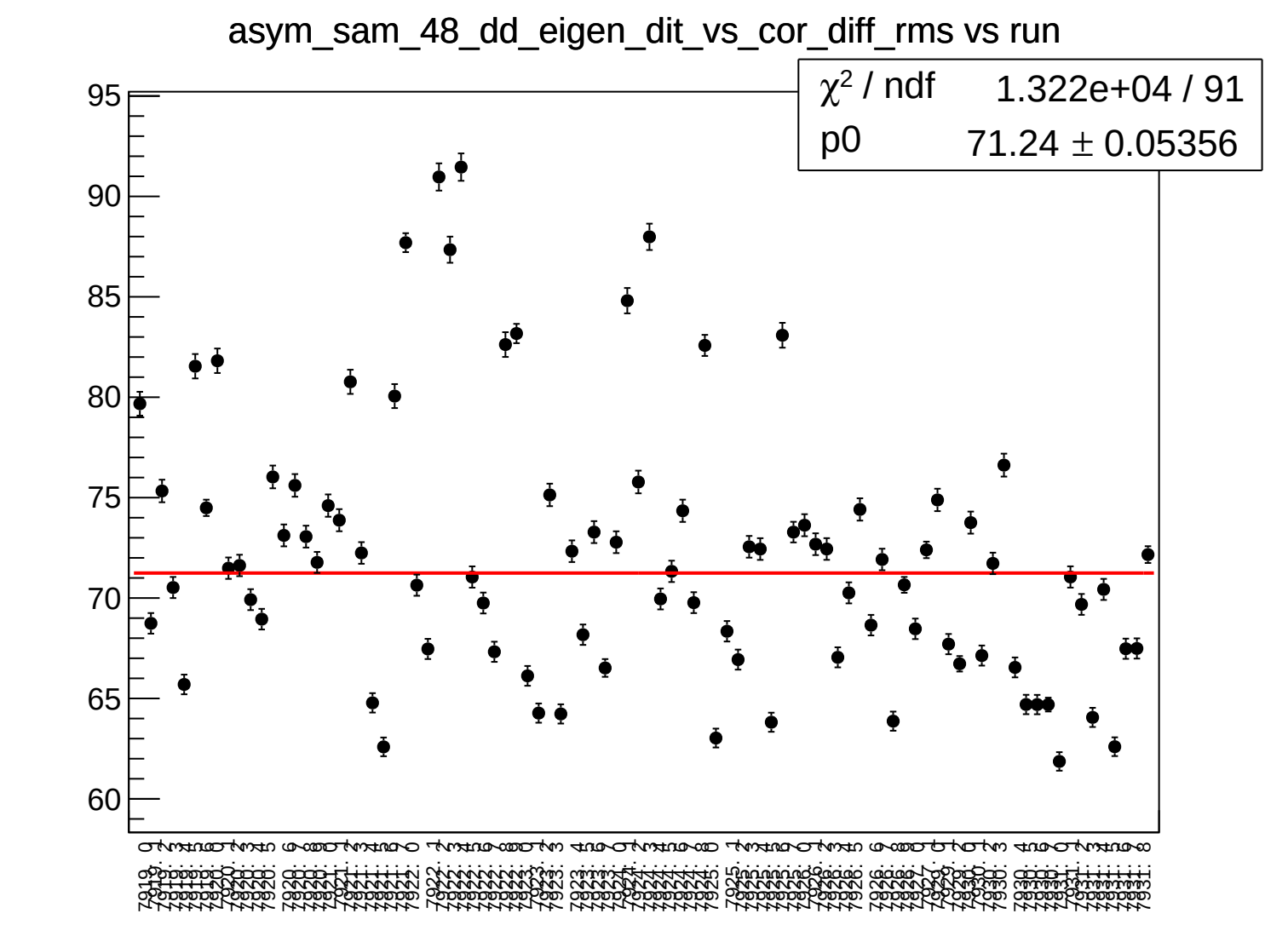

asym_sam_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.322e+04 / 91
p0 71.25 ± 0.05356
95
90
85
80
75
70
65
60

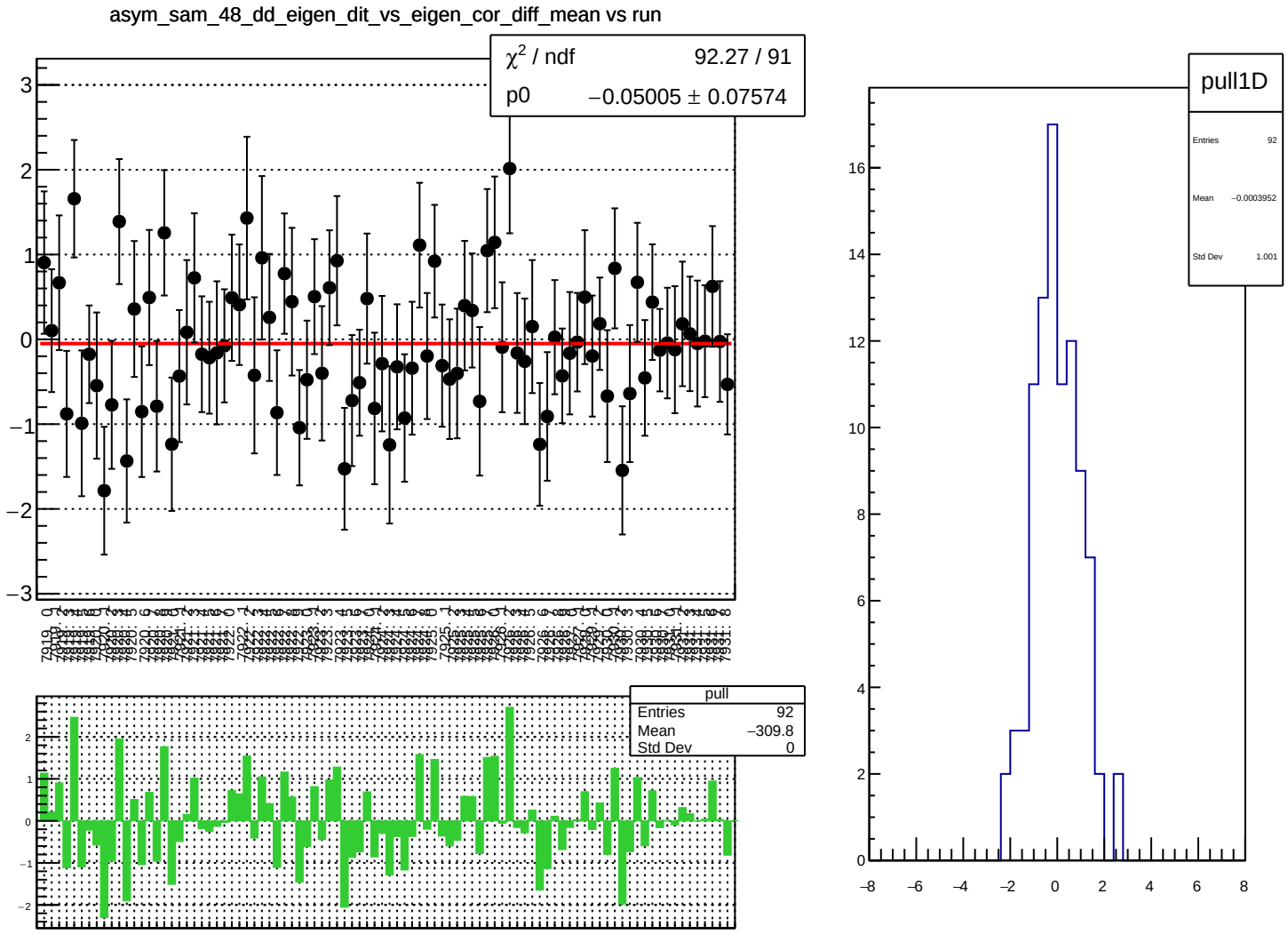

asym_sam_48_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 99.47 / 91
p0 9.806e−06 ± 5.218e−06
×10⁻³
pull
Entries 92
Mean −4068
Std Dev 0
pull1D
Entries 92
Mean 0.001223
Std Dev 1.04

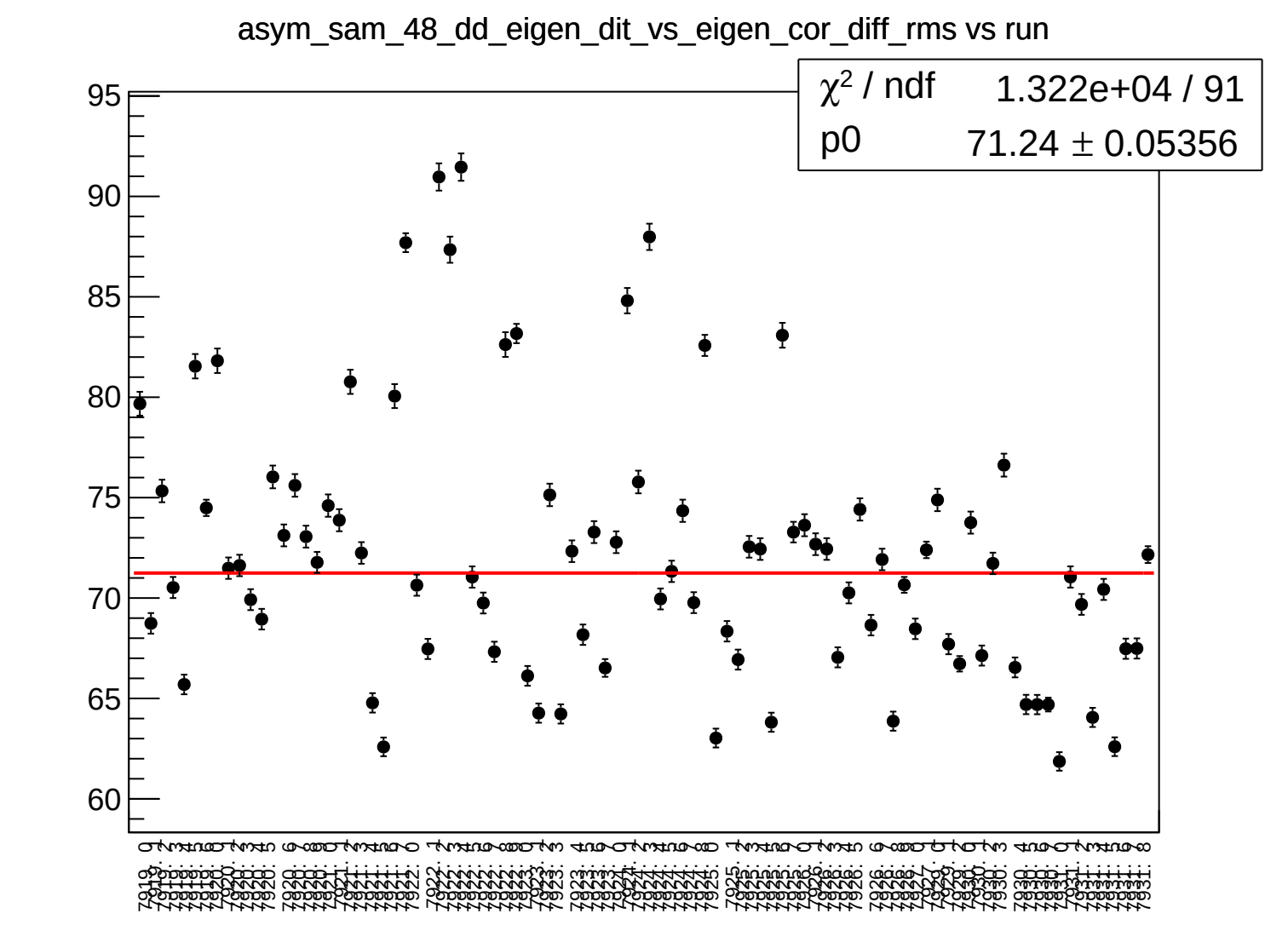

asym_sam_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1467 / 91
p0 0.004924 ± 3.689e−06
0.0056
0.0054
0.0052
0.005
0.0048
0.0046

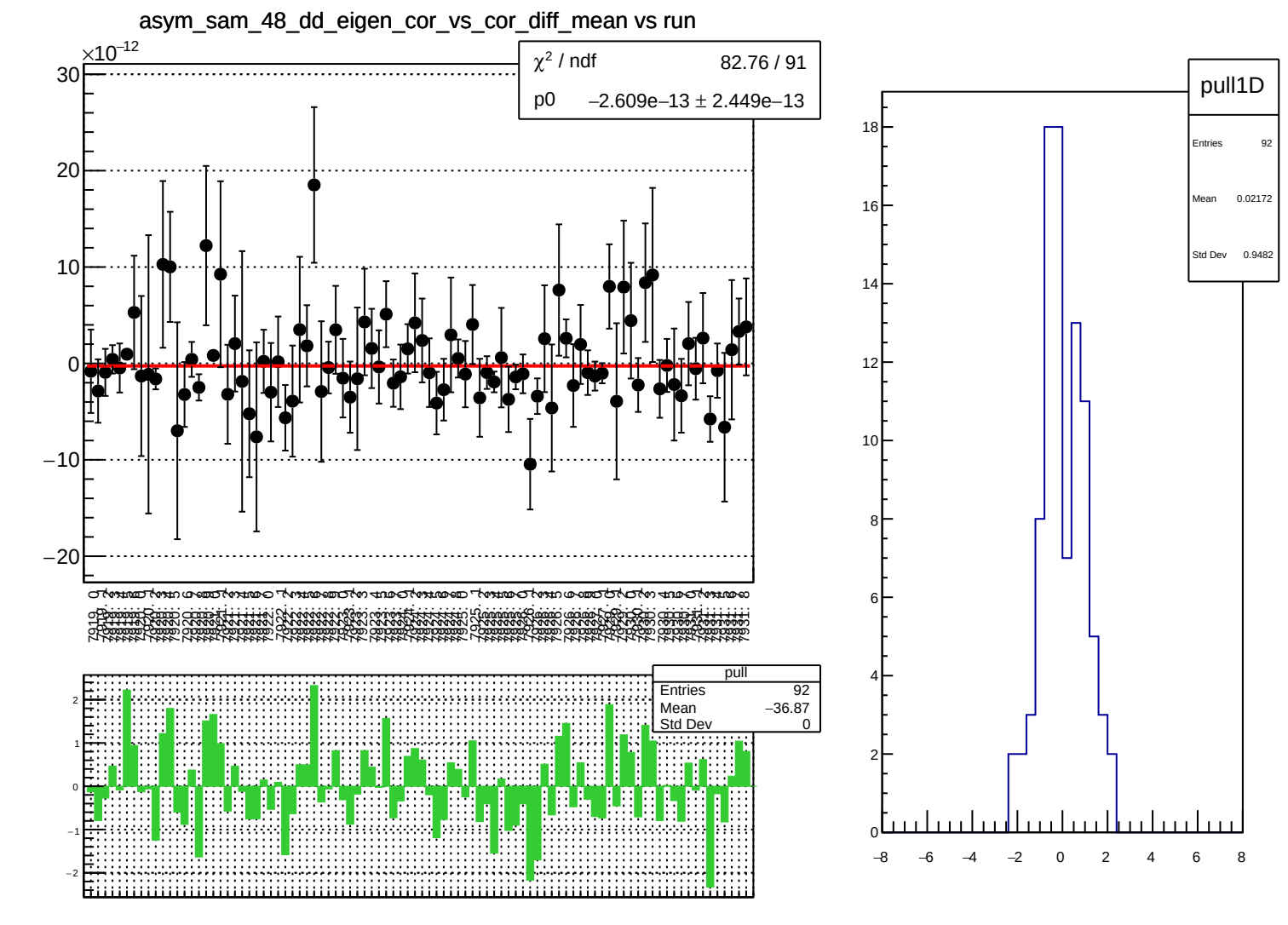

asym_sam_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.27 / 91
p0 −0.05005 ± 0.07574
pull
Entries 92
Mean −309.8
Std Dev 0

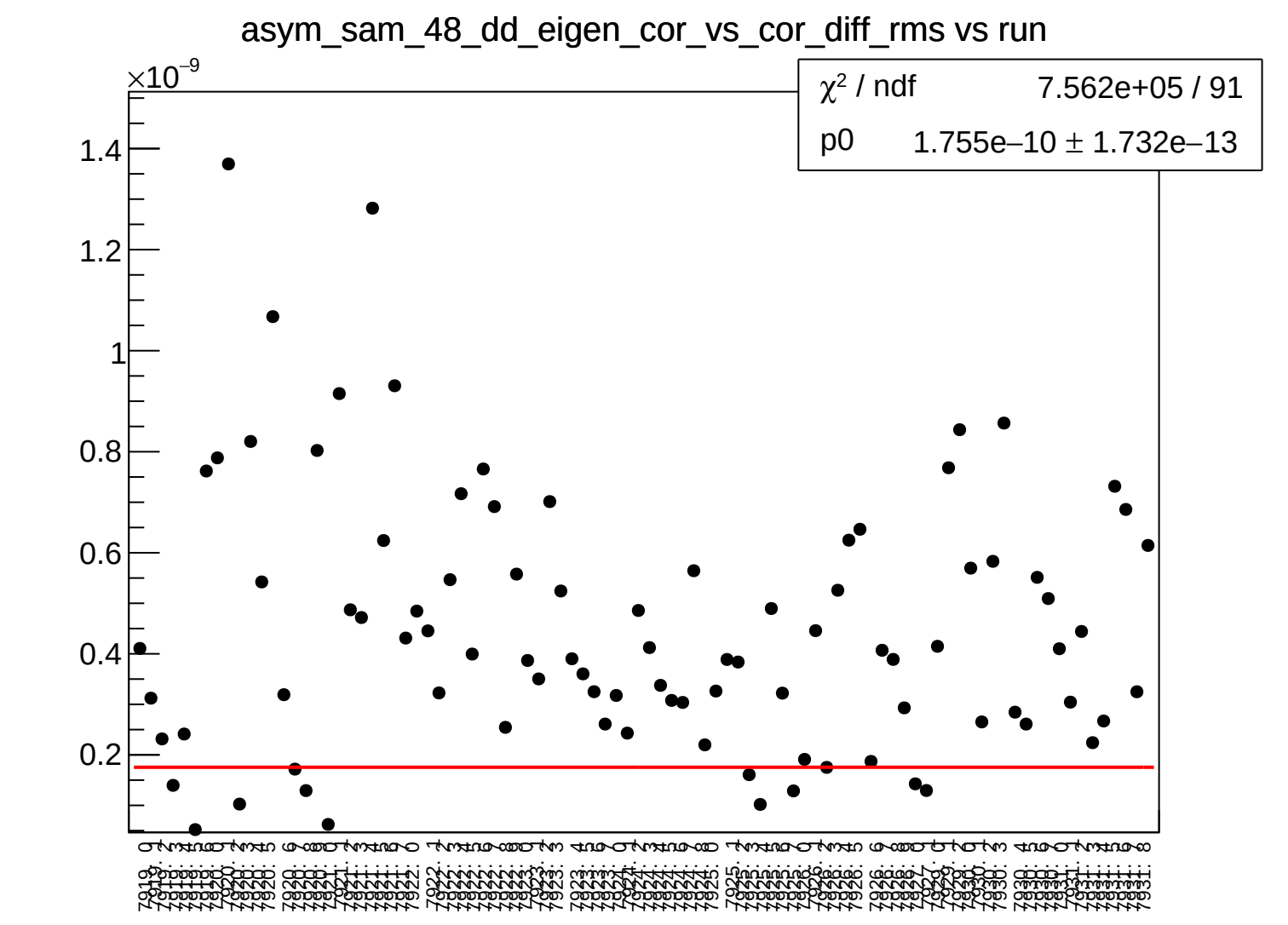

pull1D
Entries 92
Mean −0.0003952
Std Dev 1.001

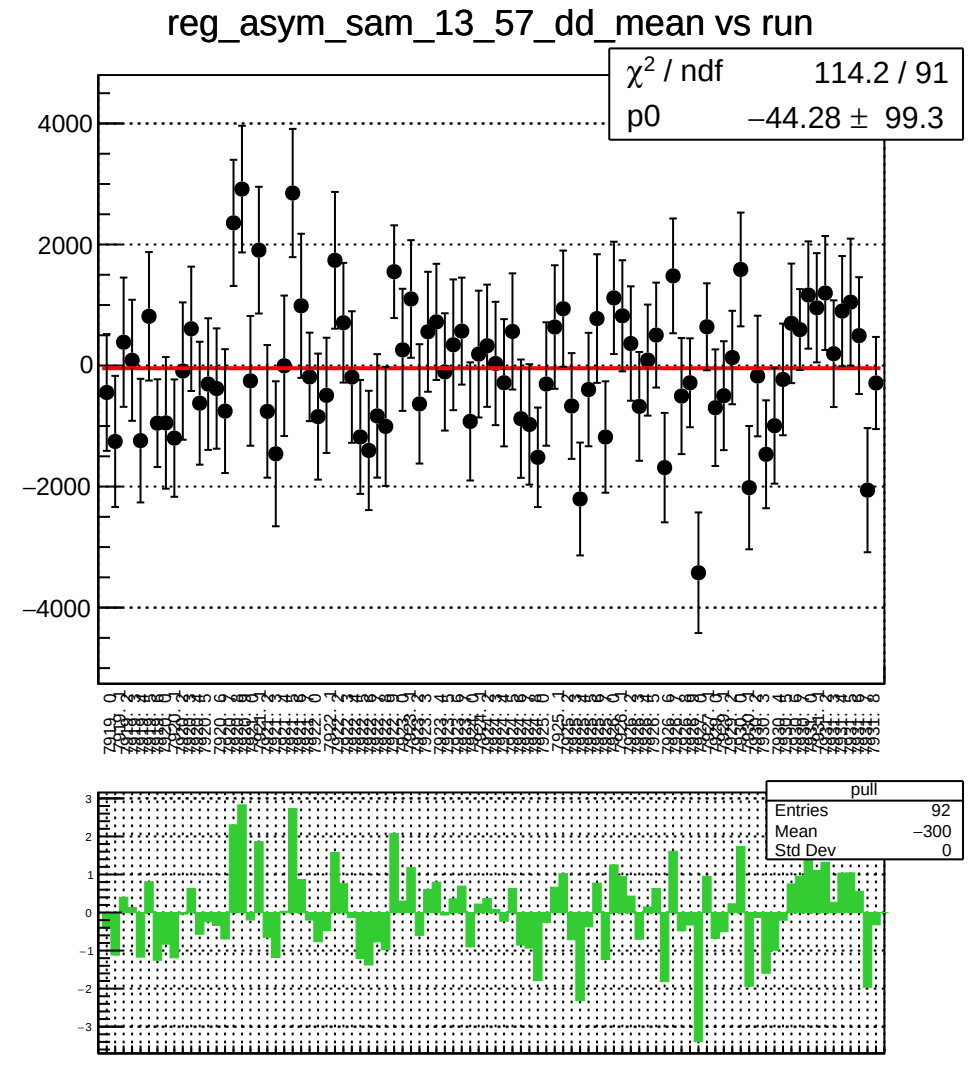

asym_sam_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.322e+04 / 91
p0 71.24 ± 0.05356
95
90
85
80
75
70
65
60

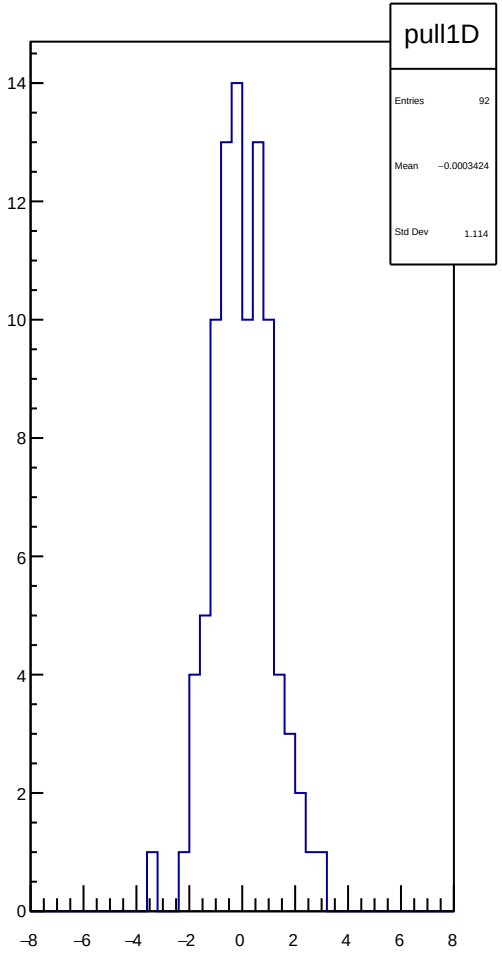

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.27 / 91
p0 −0.05005 ± 0.07574
pull
Entries 92
Mean −309.8
Std Dev 0
pull1D
Entries 92
Mean −0.0003952
Std Dev 1.001

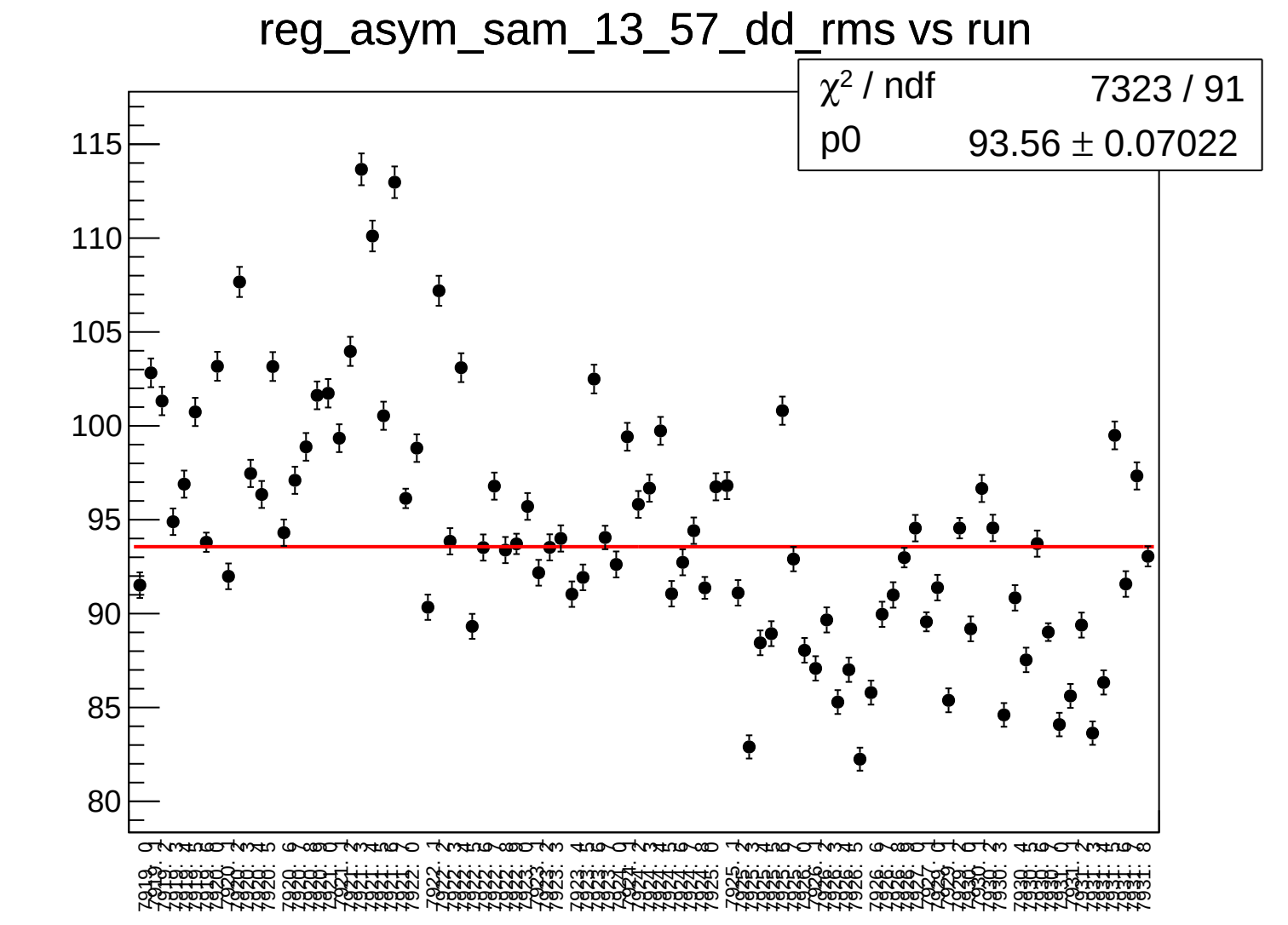

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.322e+04 / 91
p0 71.24 ± 0.05356
95
90
85
80
75
70
65
60

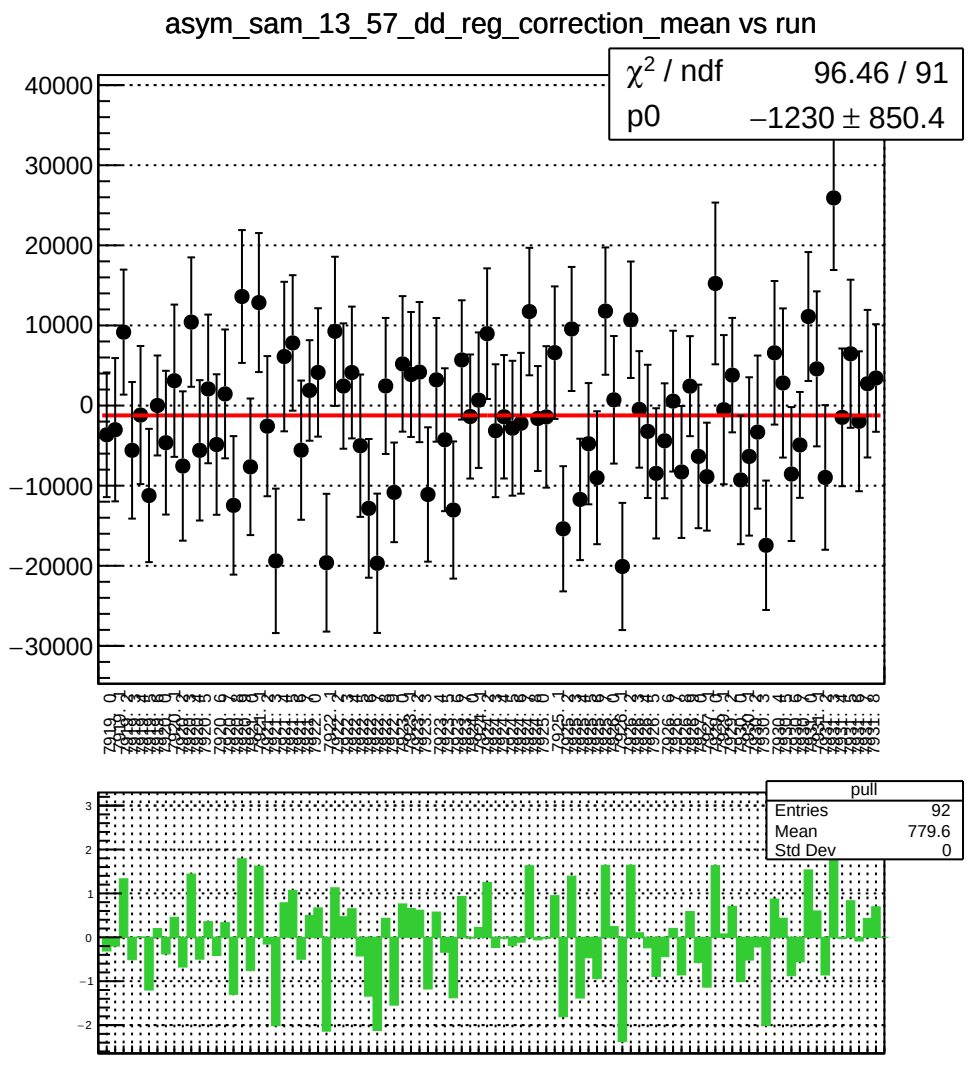

asym_sam_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.76 / 91
p0 −2.609e−13 ± 2.449e−13
pull
Entries 92
Mean −36.87
Std Dev 0
pull1D
Entries 92
Mean 0.02172
Std Dev 0.9482

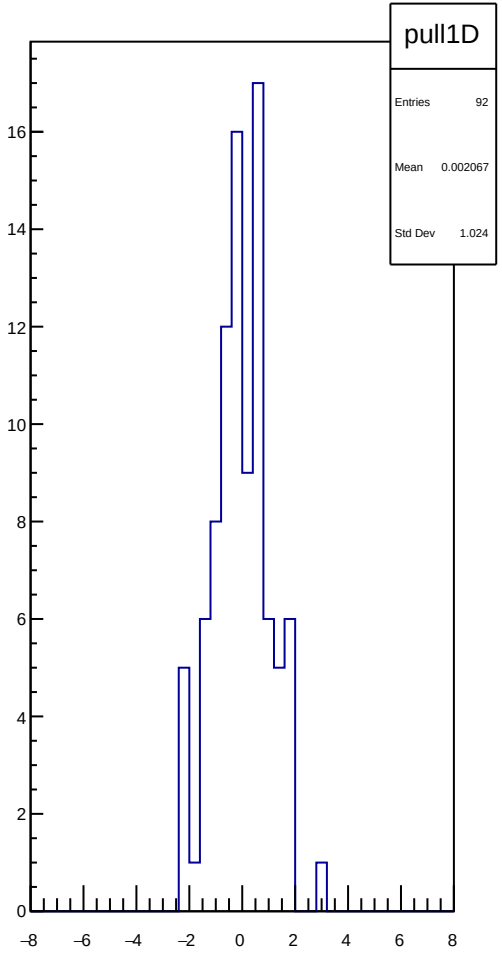

asym_sam_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.562e+05 / 91
p0 1.755e−10 ± 1.732e−13
1.4
1.2
1
0.8
0.6
0.4
0.2

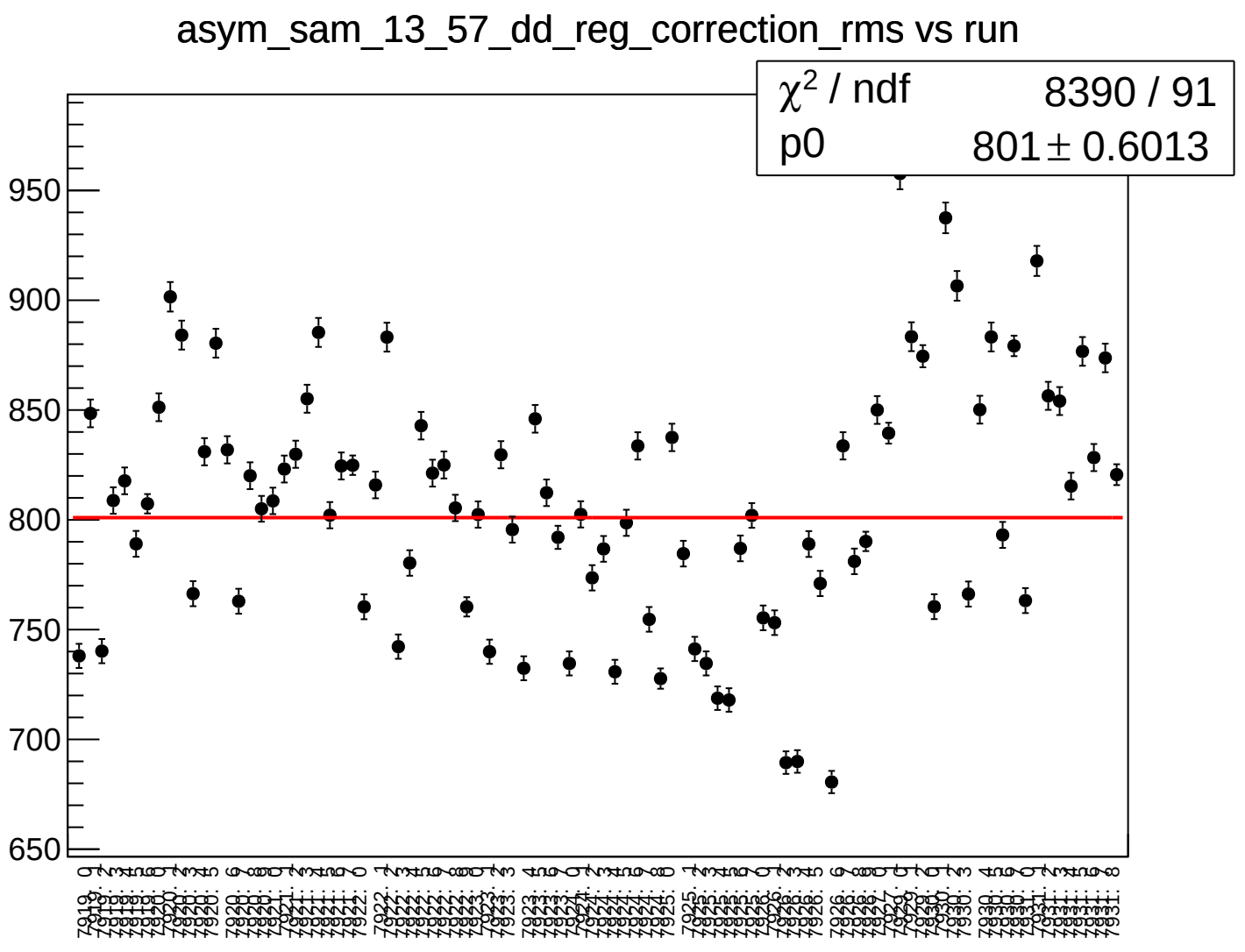

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 114.2 / 91
p0 −44.28 ± 99.3
4000
2000
0
−2000
−4000
pull
Entries 92
Mean −300
Std Dev 0
3
2
1
0
−1
−2
−3

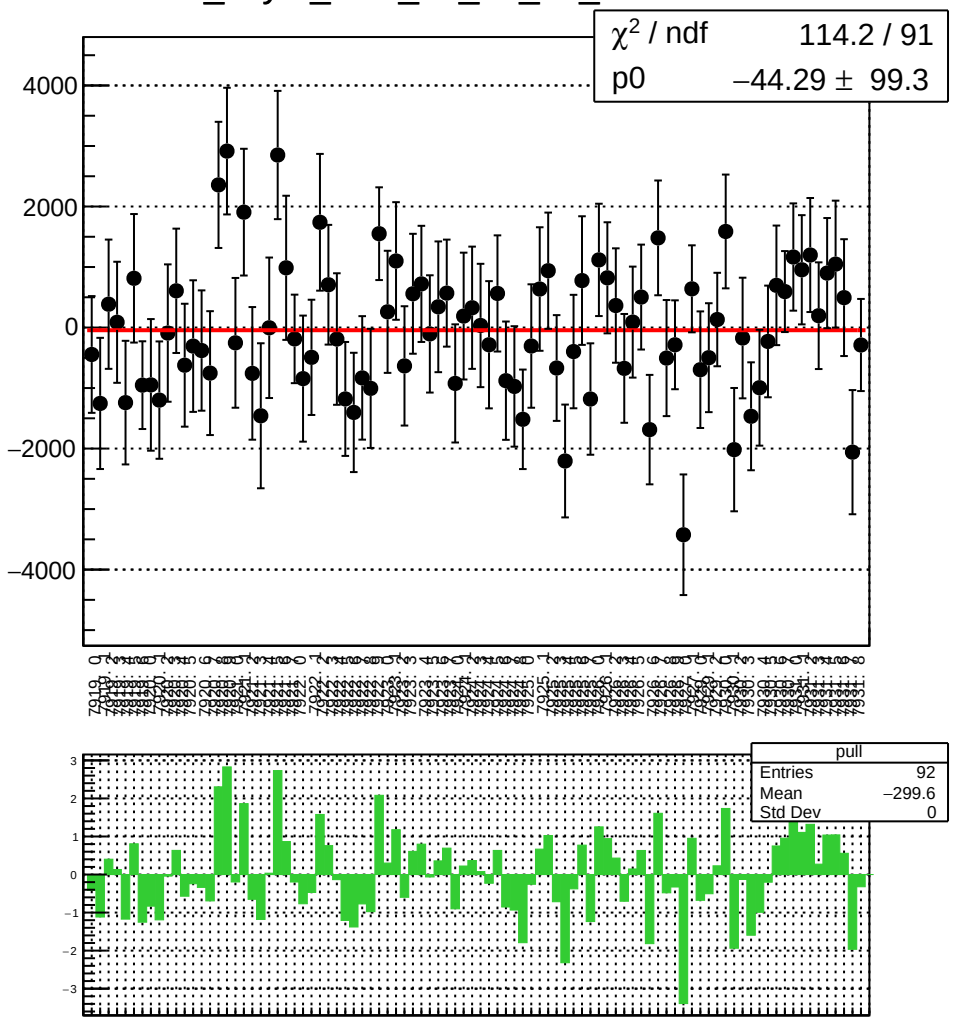

pull1D
Entries 92
Mean −0.0003424
Std Dev 1.114
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

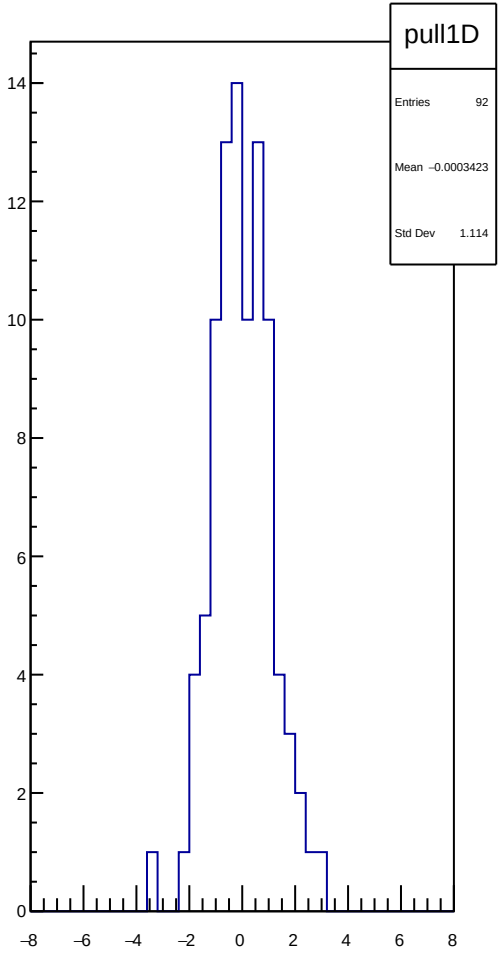

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 7323 / 91
p0 93.56 ± 0.07022
115
110
105
100
95
90
85
80

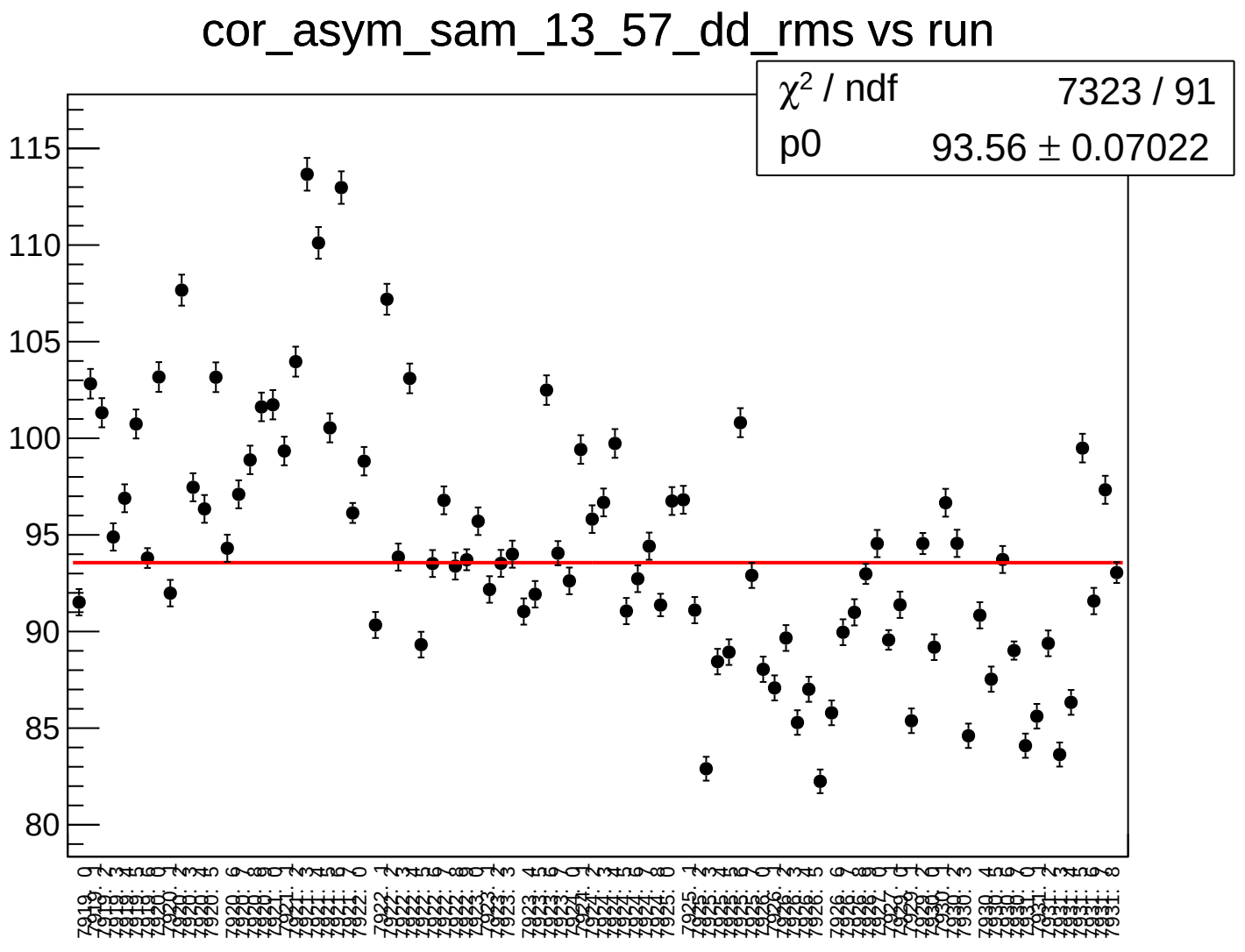

asym_sam_13_57_dd_reg_correction_mean vs run
χ² / ndf 96.46 / 91
p0 −1230 ± 850.4
pull
Entries 92
Mean 779.6
Std Dev 0

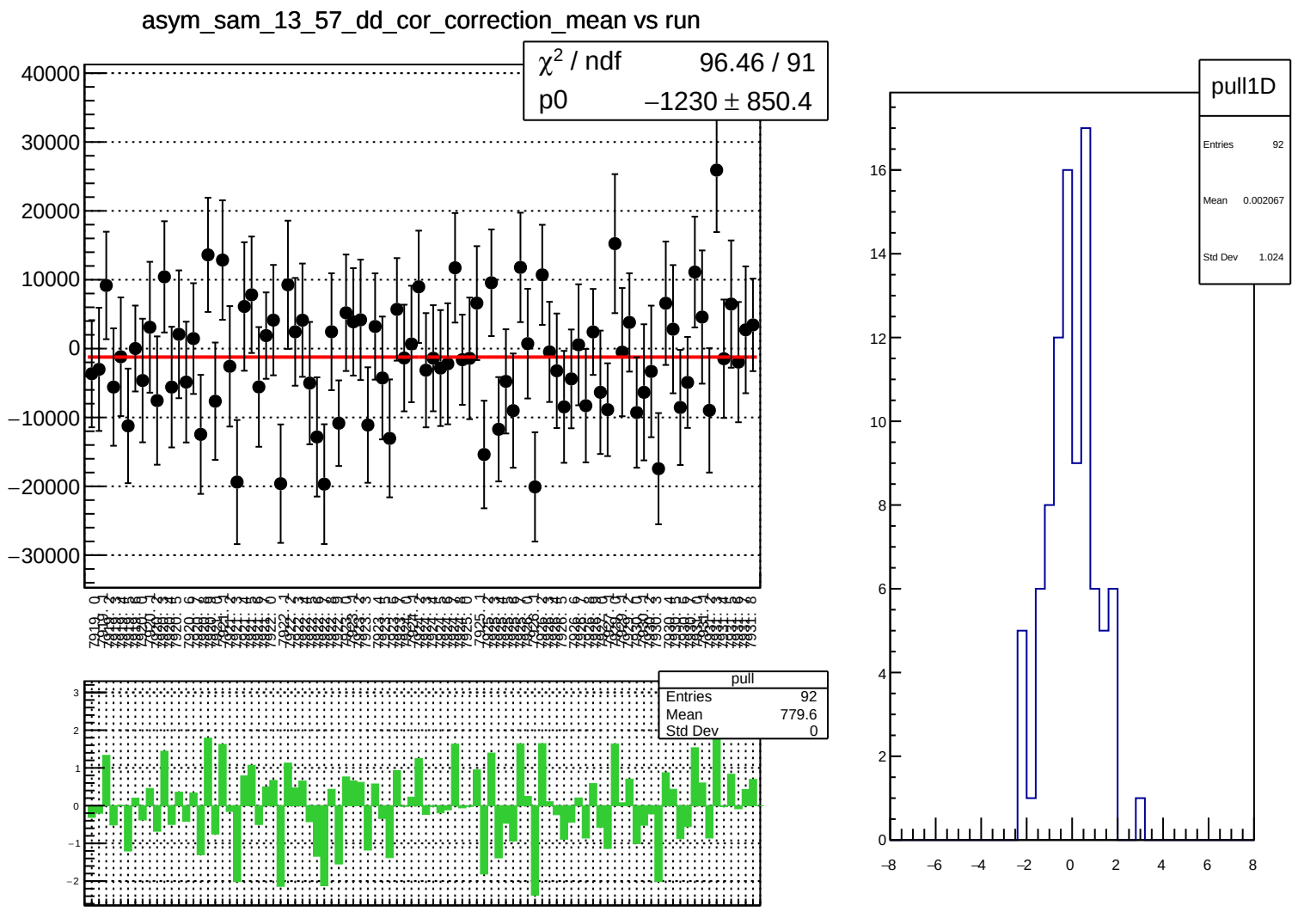

pull1D
Entries 92
Mean 0.002067
Std Dev 1.024

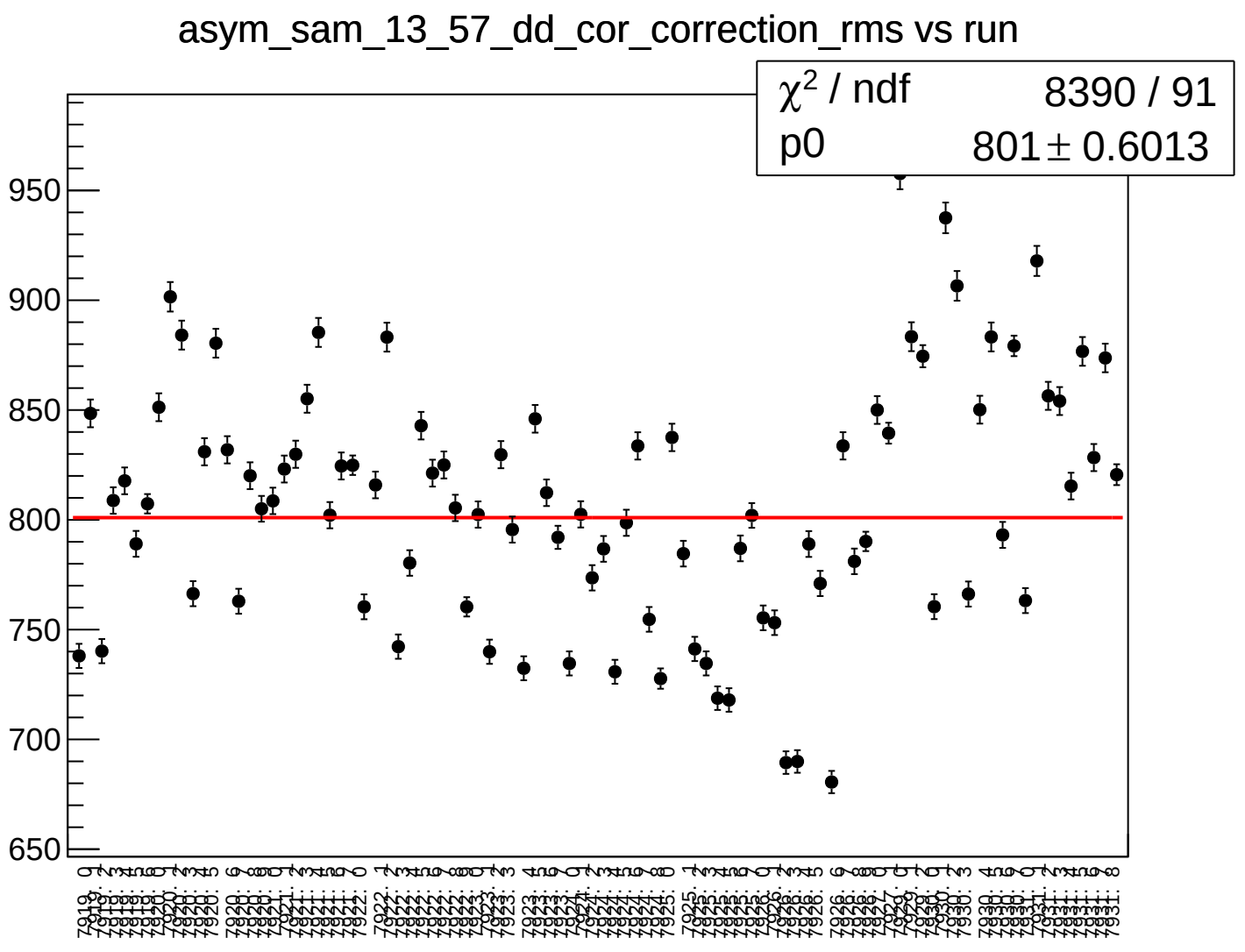

asym_sam_13_57_dd_reg_correction_rms vs run
χ² / ndf 8390 / 91
p0 801 ± 0.6013
950
900
850
800
750
700
650

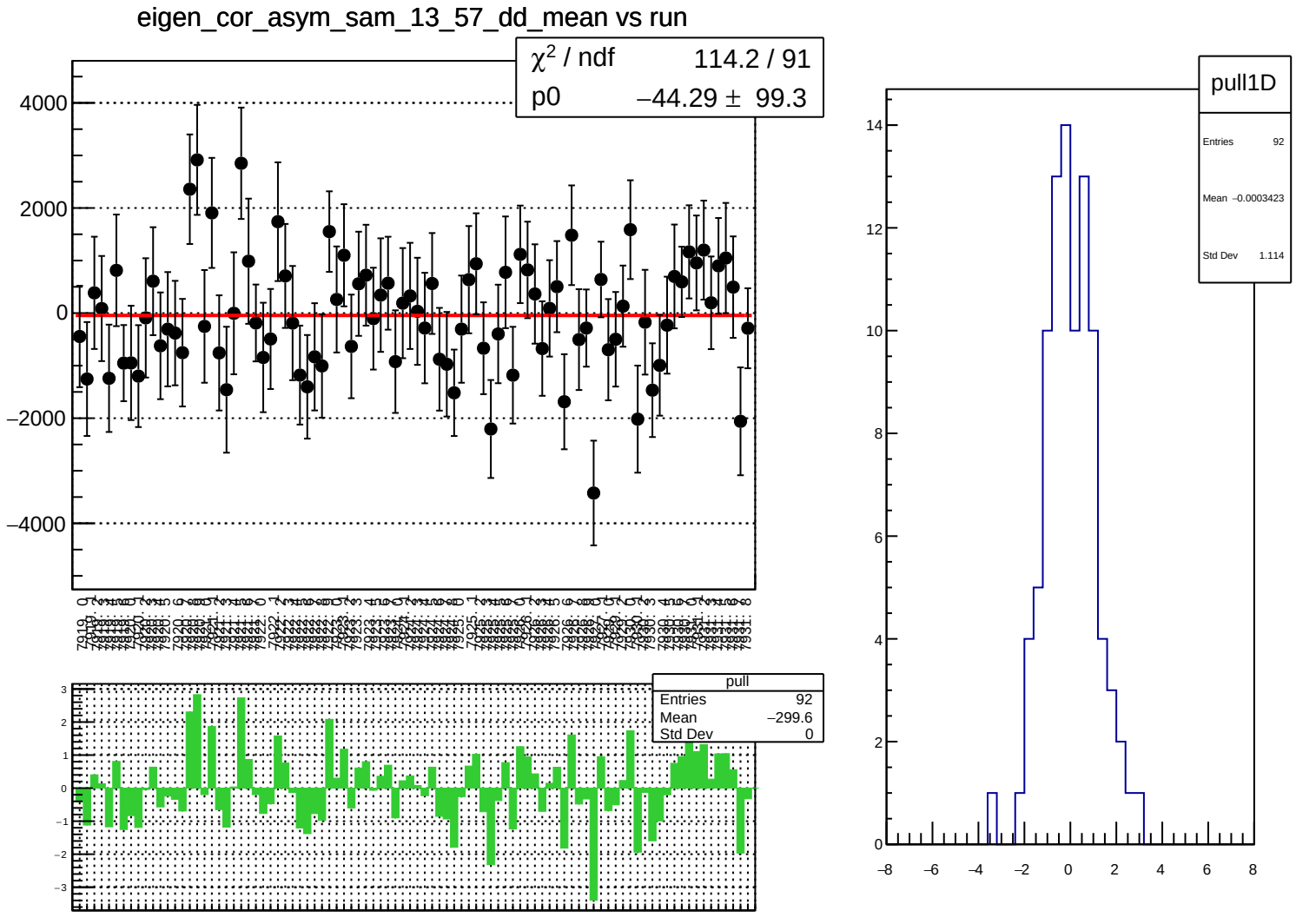

cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 114.2 / 91
p0 −44.29 ± 99.3
4000
2000
0
−2000
−4000
pull
Entries 92
Mean −299.6
Std Dev 0
3
2
1
0
−1
−2
−3

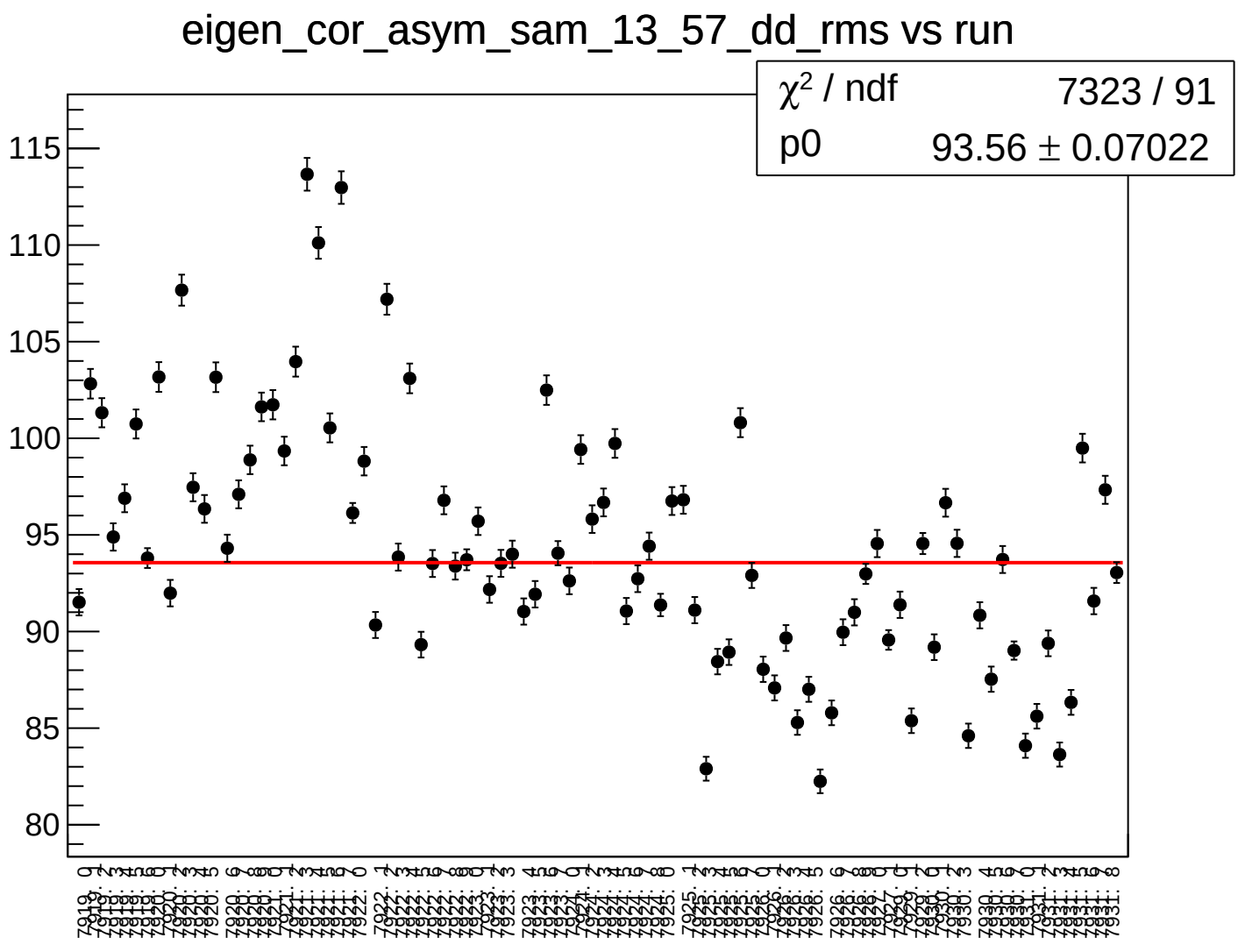

pull1D
Entries 92
Mean −0.0003423
Std Dev 1.114
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

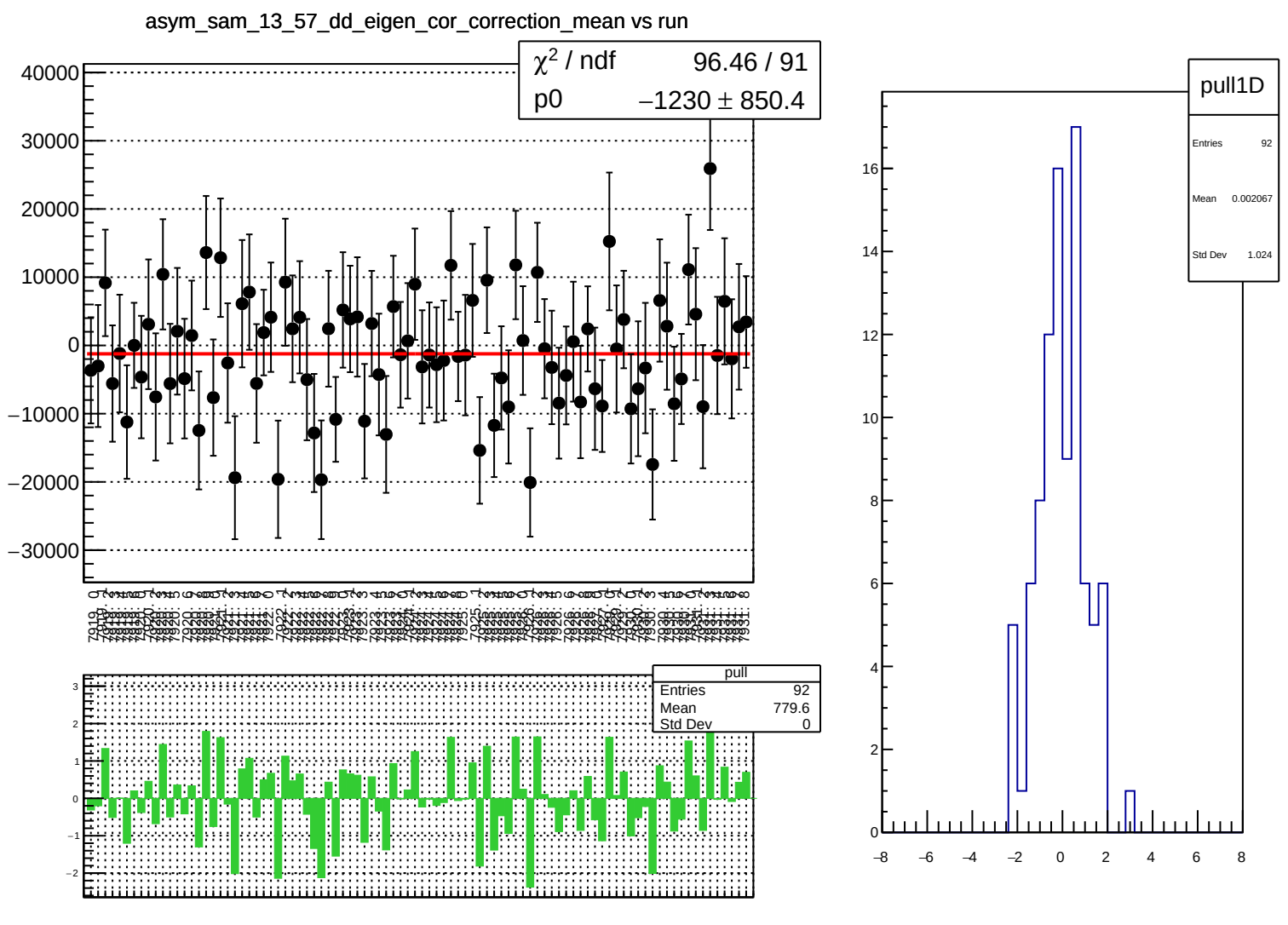

cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 7323 / 91
p0 93.56 ± 0.07022
115
110
105
100
95
90
85
80

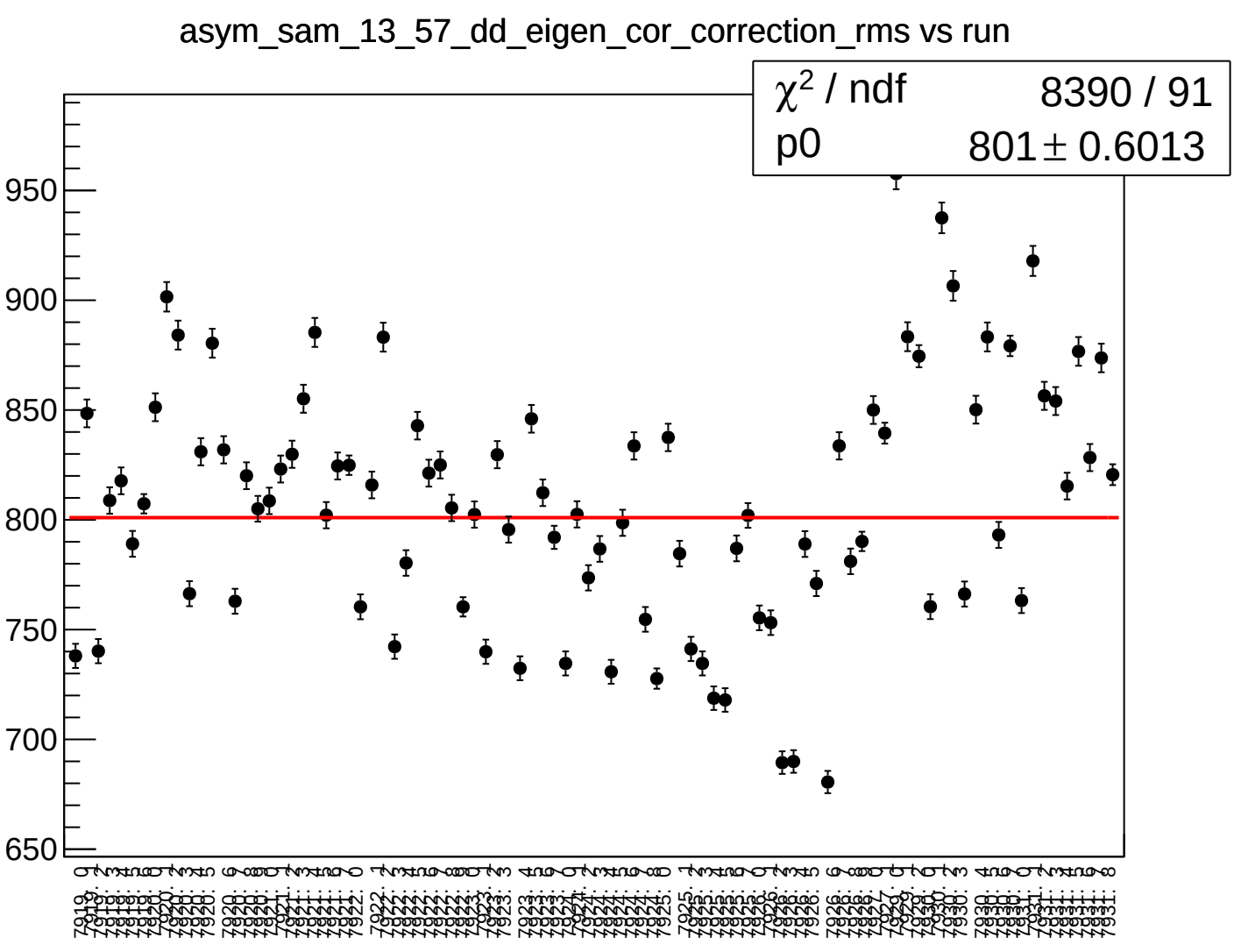

asym_sam_13_57_dd_cor_correction_mean vs run
χ² / ndf 96.46 / 91
p0 −1230 ± 850.4
pull
Entries 92
Mean 779.6
Std Dev 0
pull1D
Entries 92
Mean 0.002067
Std Dev 1.024

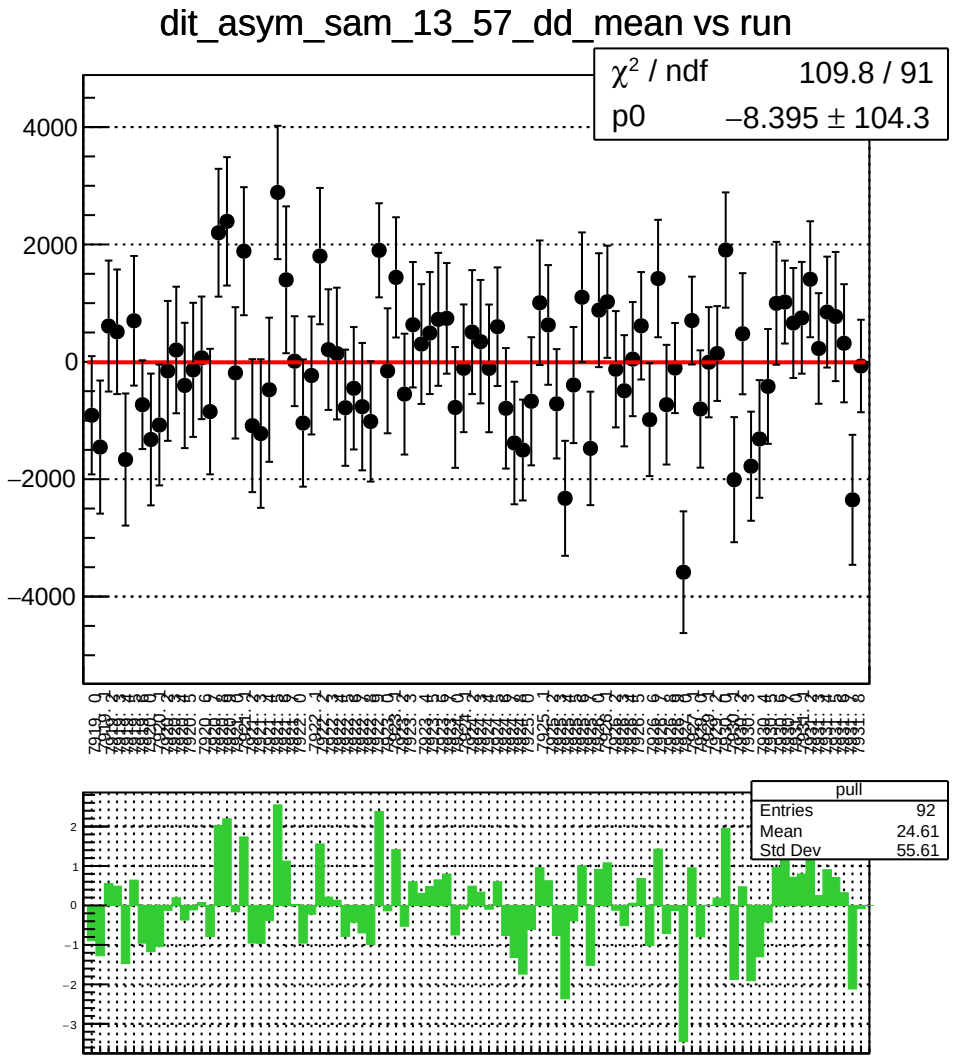

asym_sam_13_57_dd_cor_correction_rms vs run
χ² / ndf 8390 / 91
p0 801 ± 0.6013
950
900
850
800
750
700
650

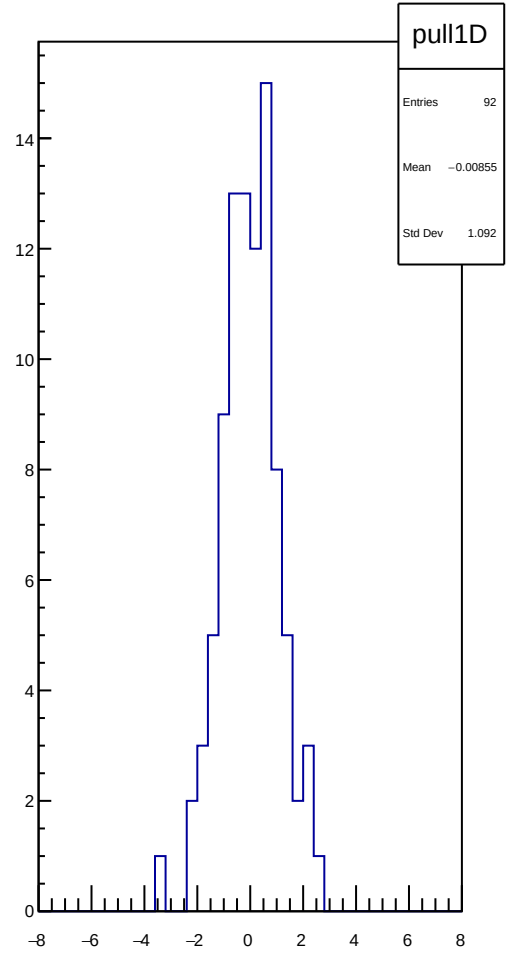

eigen_cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 114.2 / 91
p0 −44.29 ± 99.3
4000
2000
0
−2000
−4000
pull
Entries 92
Mean −299.6
Std Dev 0
pull1D
Entries 92
Mean −0.0003423
Std Dev 1.114

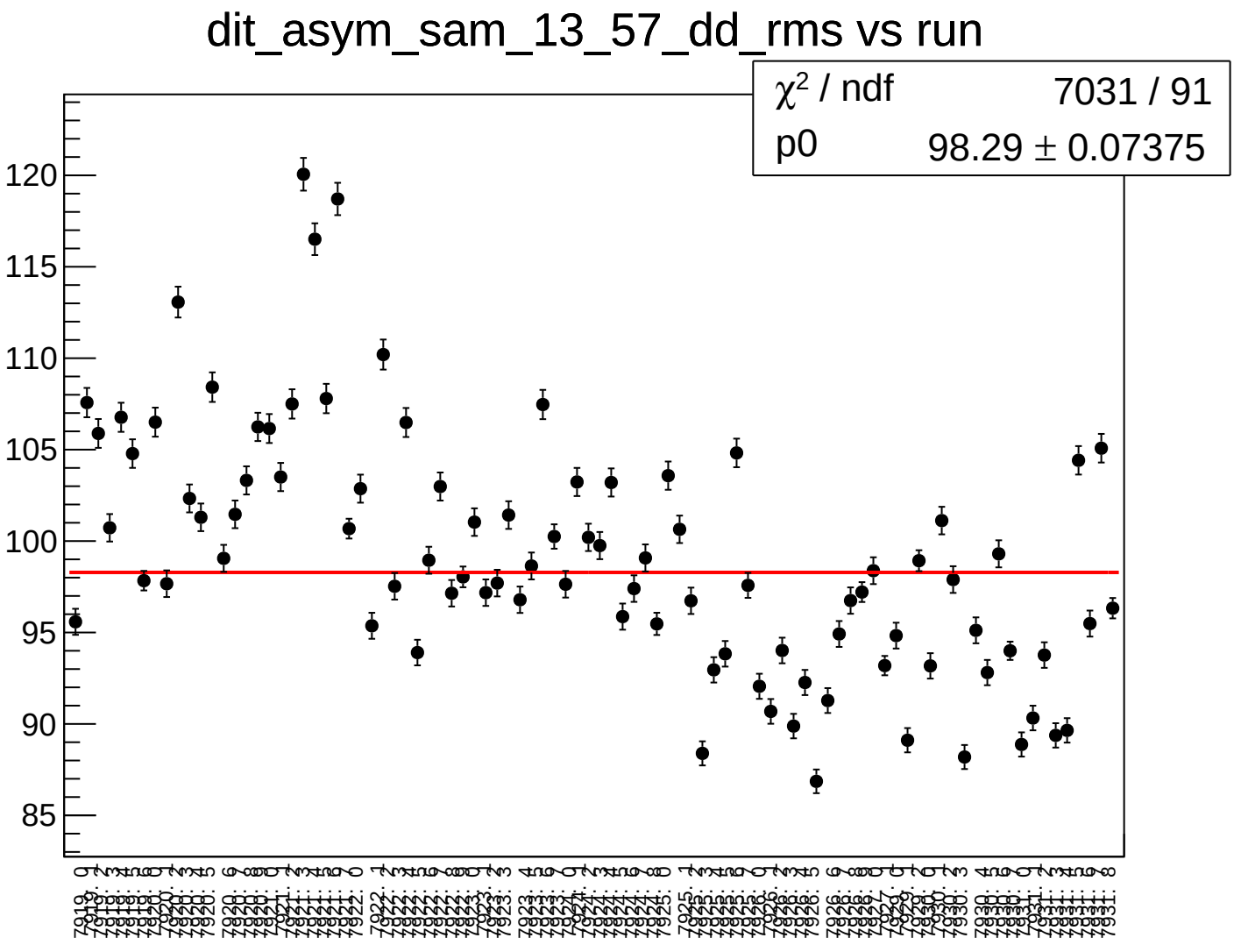

eigen_cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 7323 / 91
p0 93.56 ± 0.07022
115
110
105
100
95
90
85
80

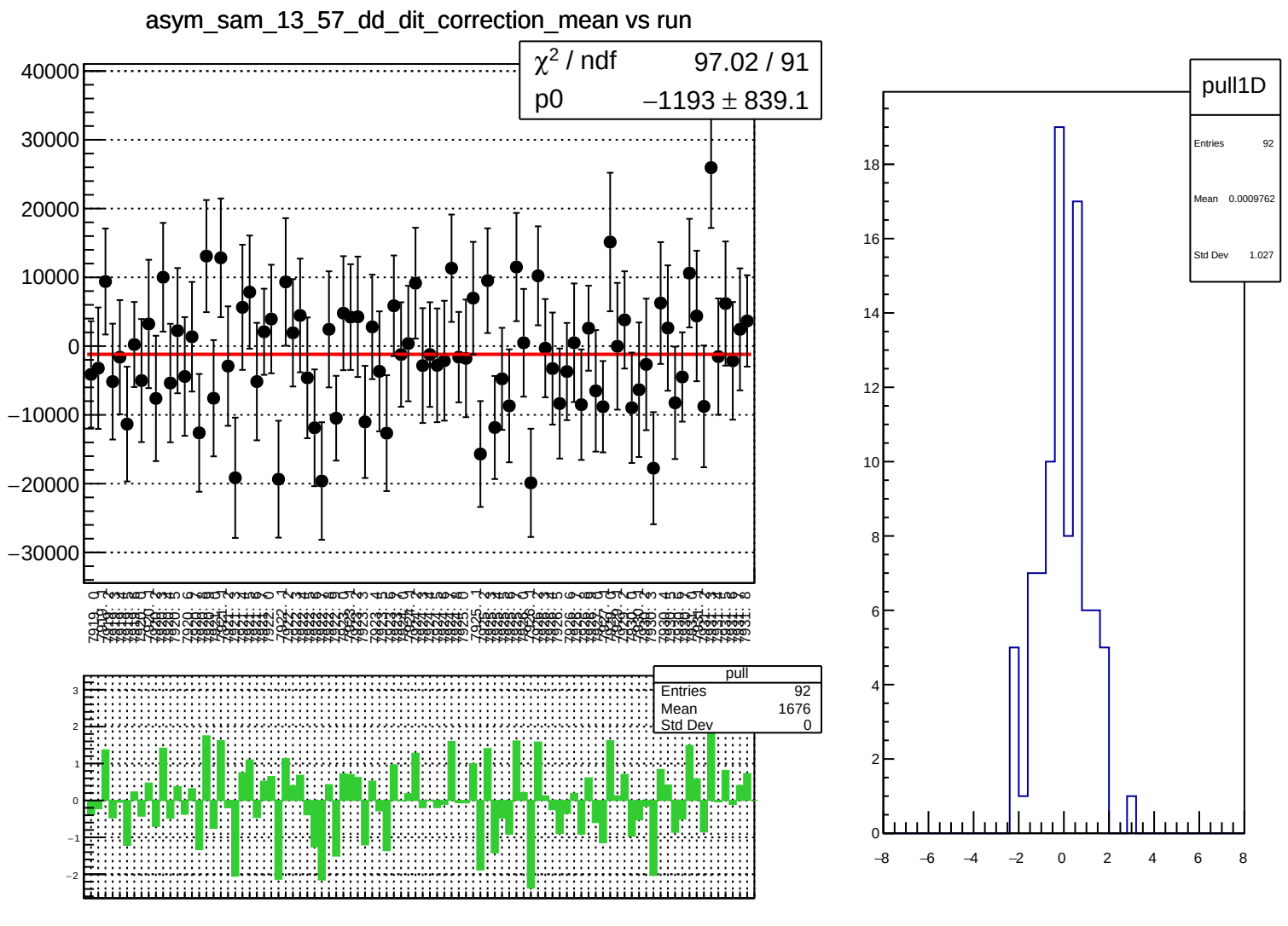

asym_sam_13_57_dd_eigen_cor_correction_mean vs run
χ² / ndf 96.46 / 91
p0 −1230 ± 850.4
pull
Entries 92
Mean 779.6
Std Dev 0
pull1D
Entries 92
Mean 0.002067
Std Dev 1.024

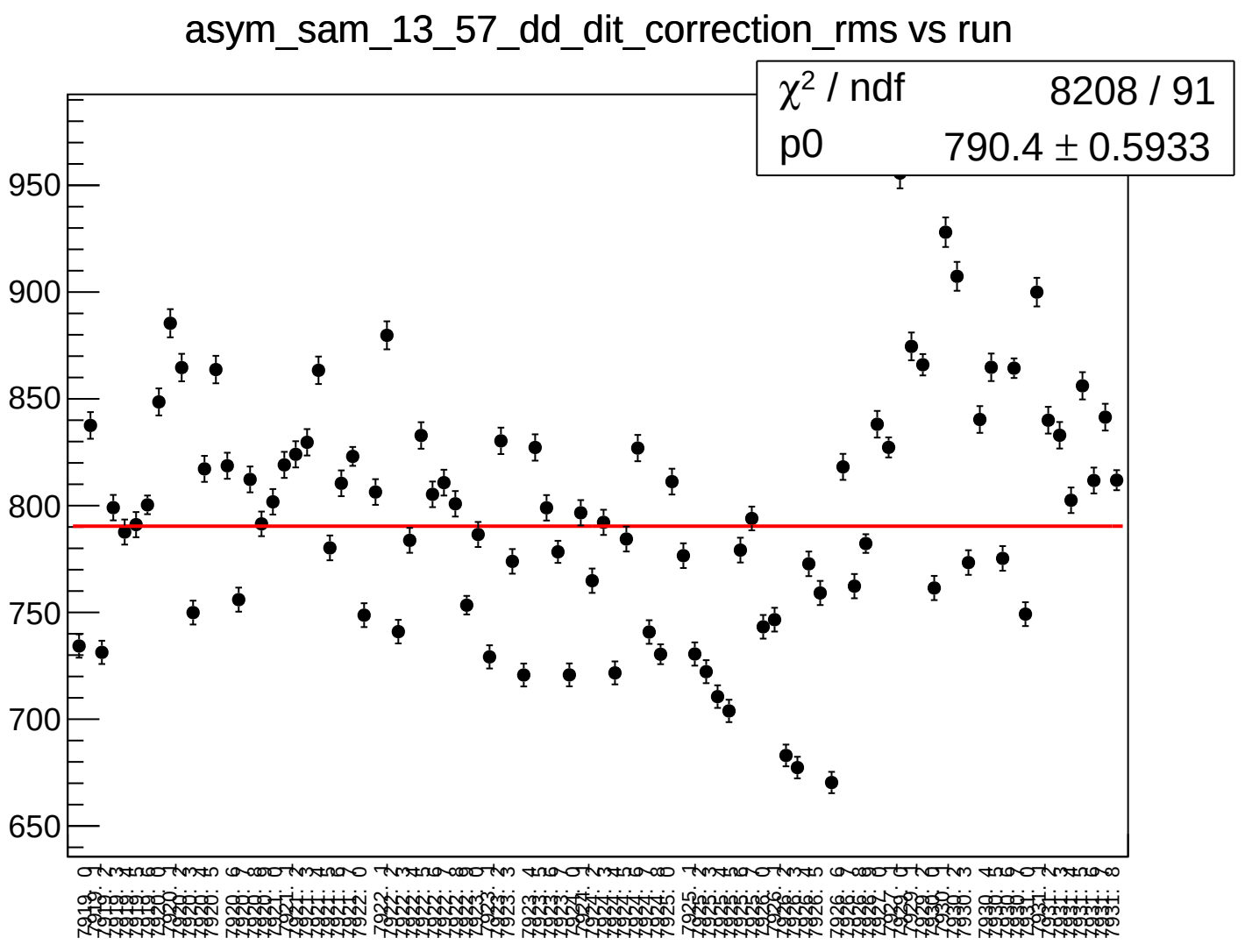

asym_sam_13_57_dd_eigen_cor_correction_rms vs run
χ² / ndf 8390 / 91
p0 801 ± 0.6013
950
900
850
800
750
700
650

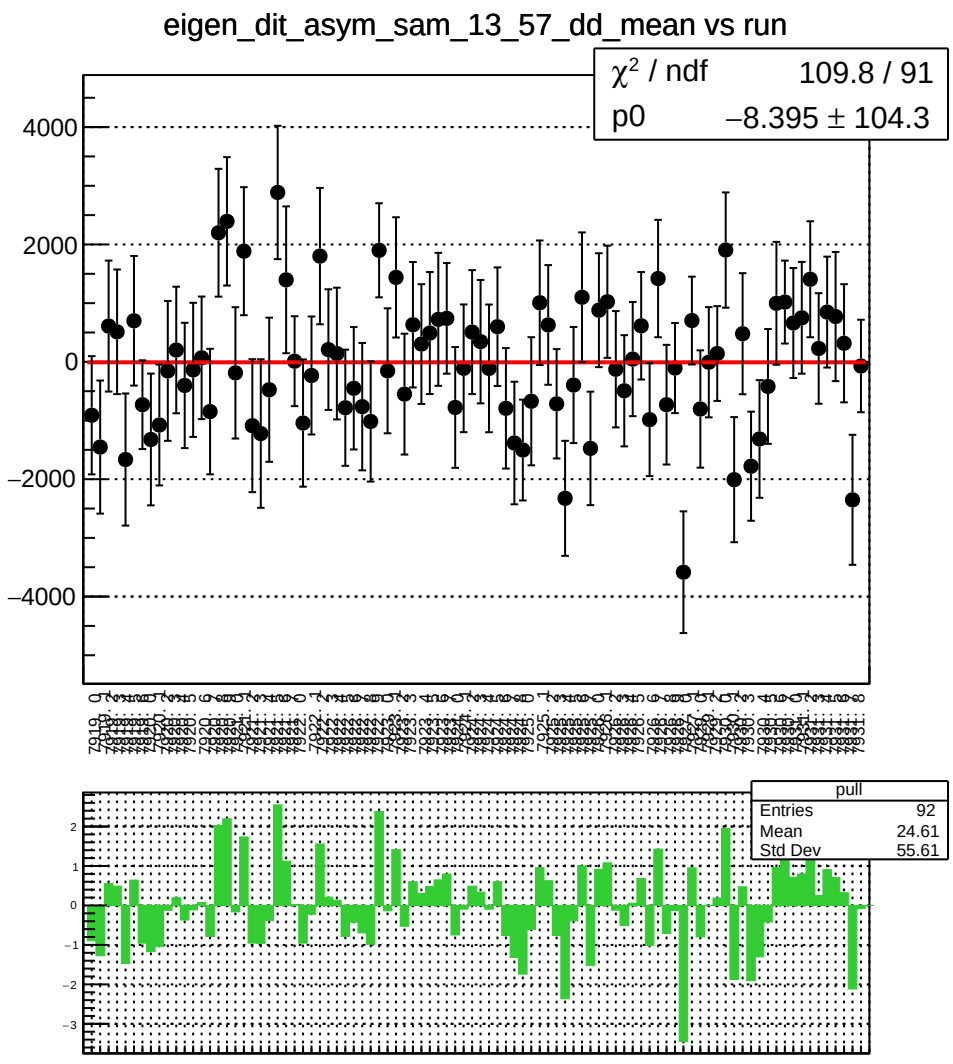

dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 109.8 / 91
p0 −8.395 ± 104.3
4000
2000
0
−2000
−4000
pull
Entries 92
Mean 24.61
Std Dev 55.61
2
1
0
−1
−2
−3

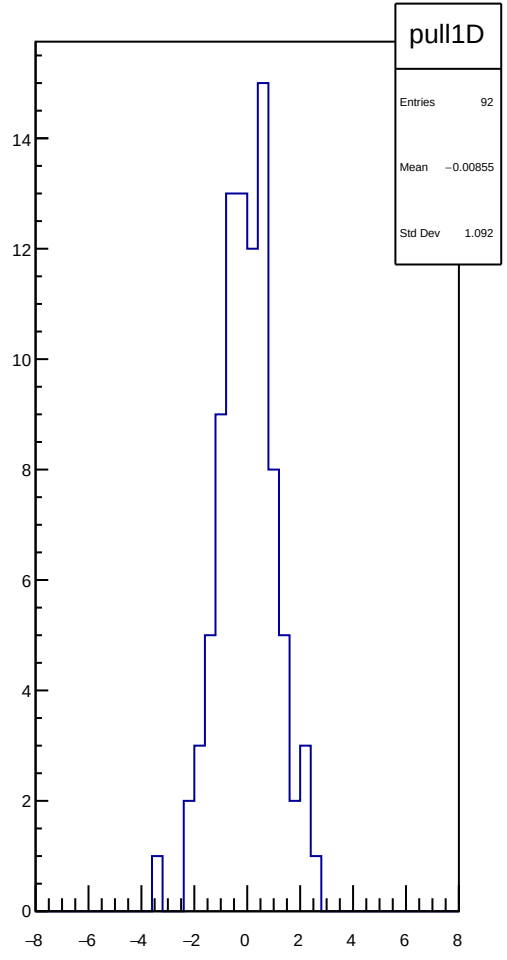

pull1D
Entries 92
Mean −0.00855
Std Dev 1.092
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

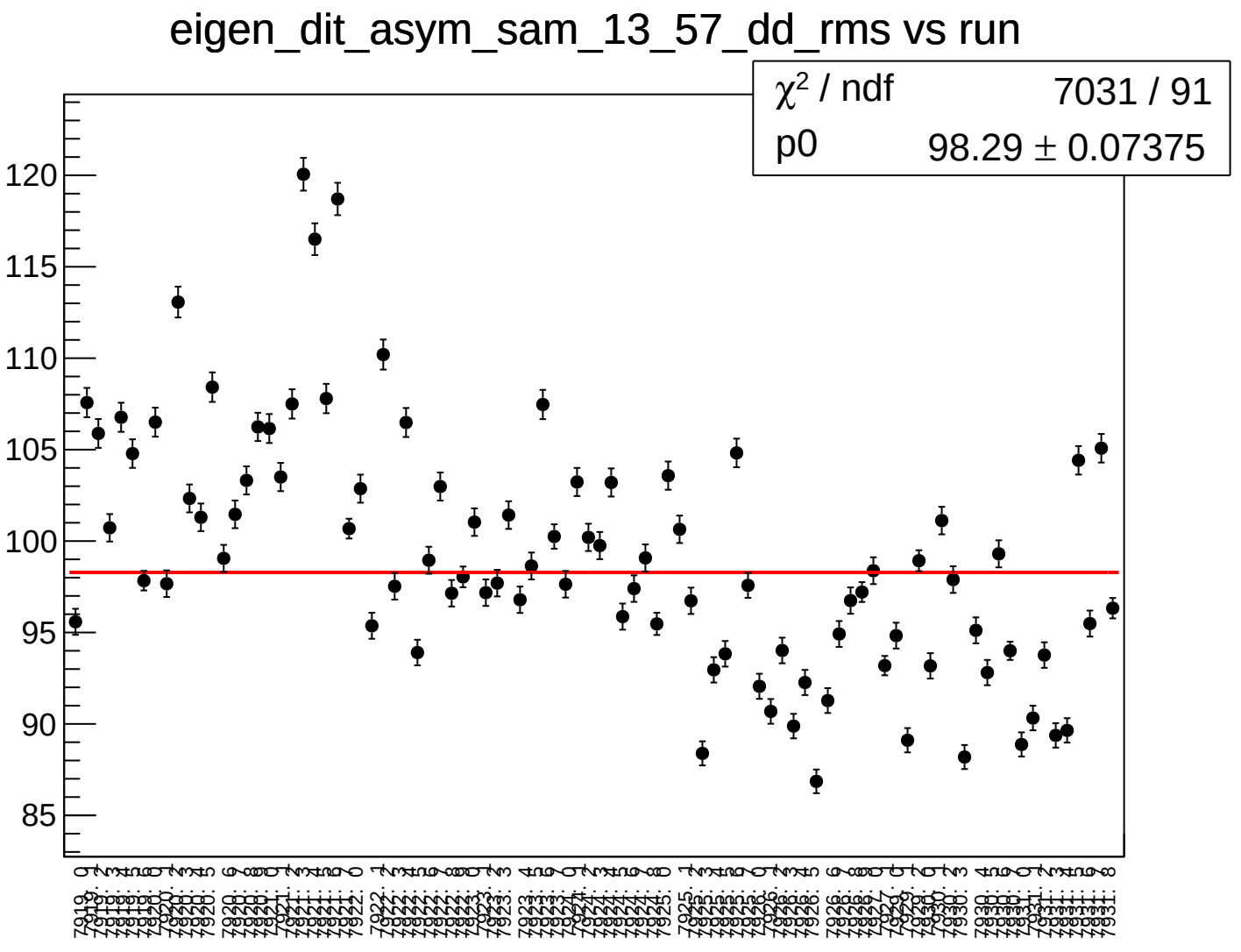

dit_asym_sam_13_57_dd_rms vs run
χ^2 / ndf 7031 / 91
p0 98.29 ± 0.07375
120
115
110
105
100
95
90
85

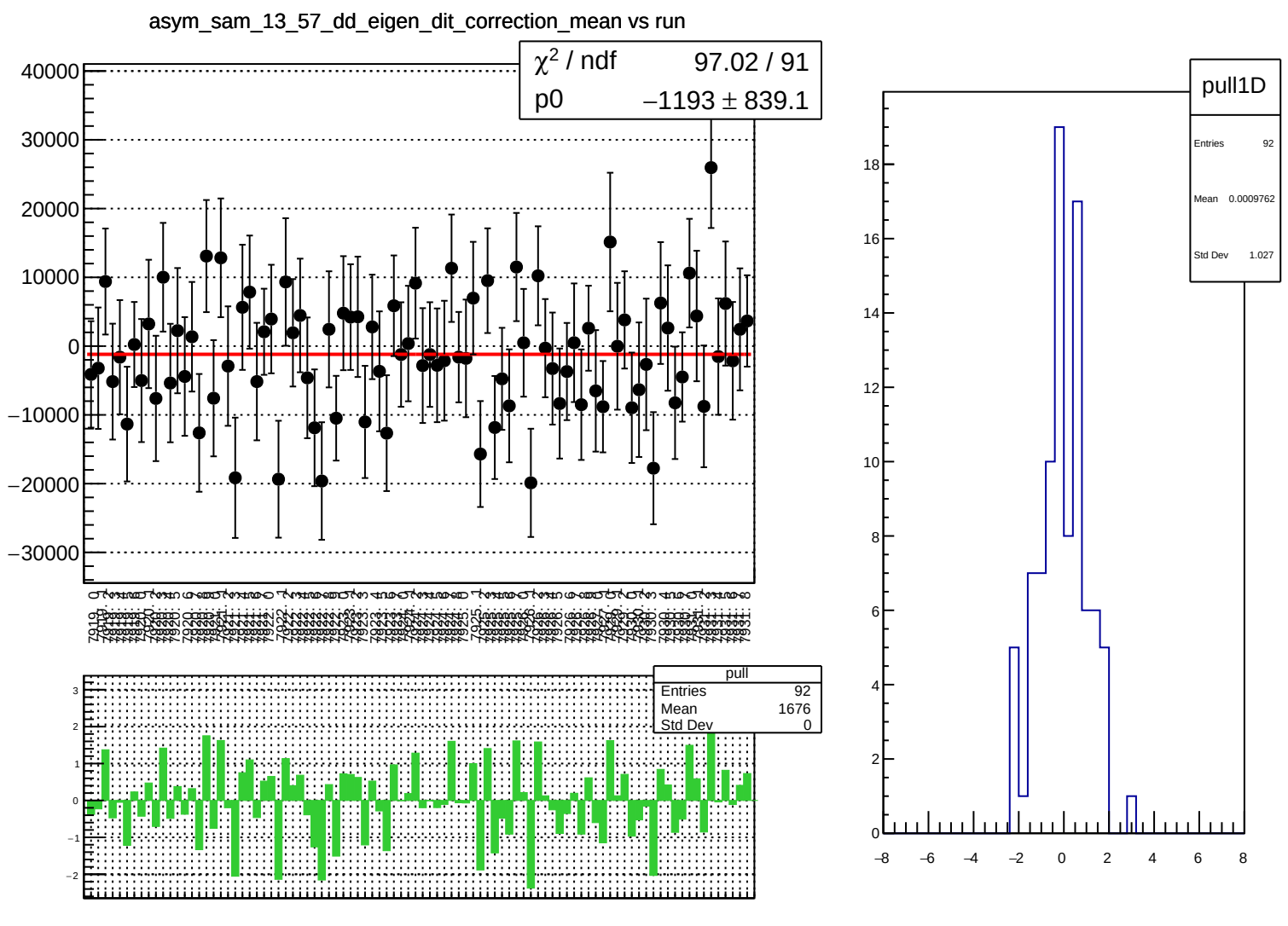

asym_sam_13_57_dd_dit_correction_mean vs run
χ² / ndf 97.02 / 91
p0 −1193 ± 839.1
pull
Entries 92
Mean 1676
Std Dev 0
pull1D
Entries 92
Mean 0.0009762
Std Dev 1.027

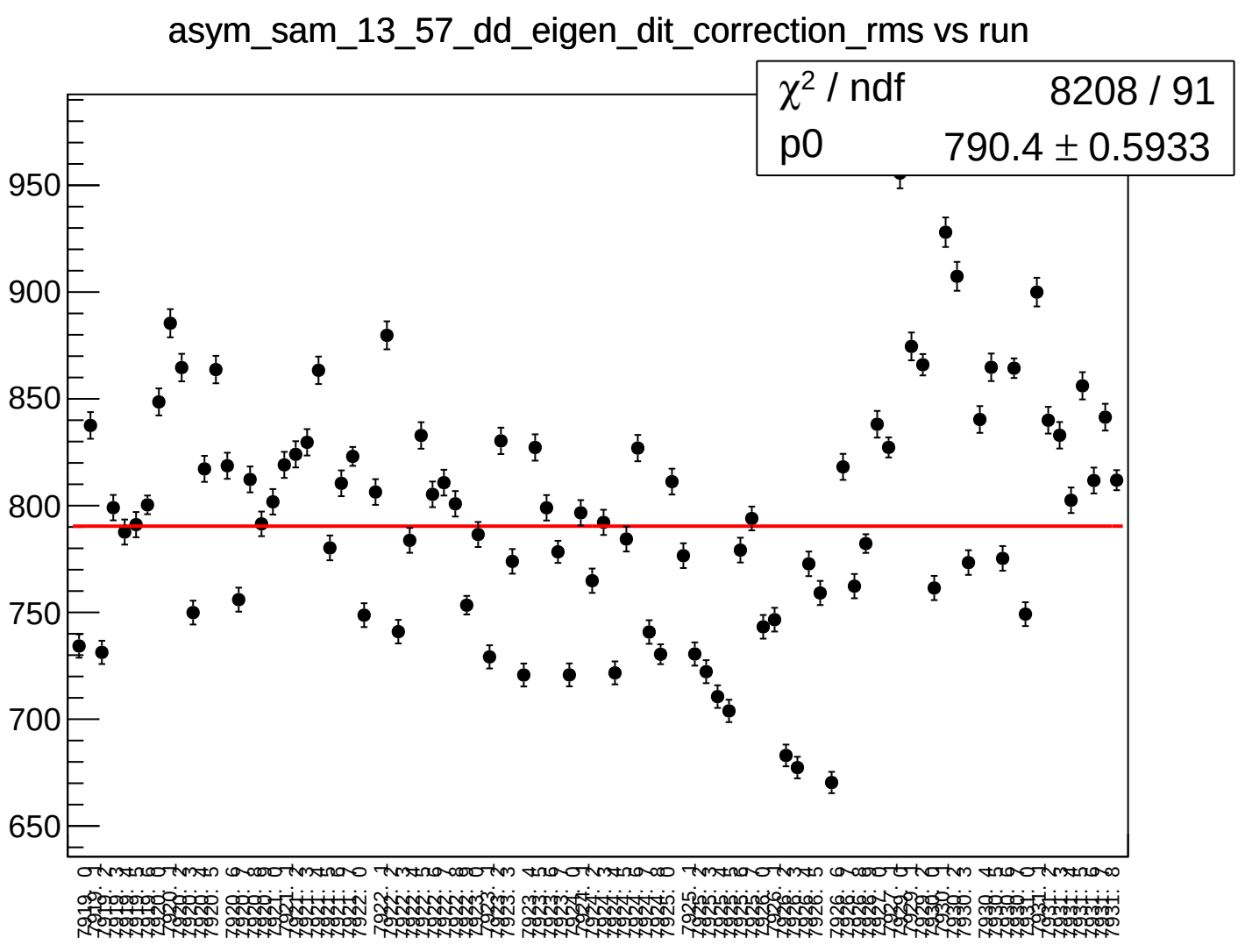

asym_sam_13_57_dd_dit_correction_rms vs run
χ² / ndf 8208 / 91
p0 790.4 ± 0.5933
950
900
850
800
750
700
650

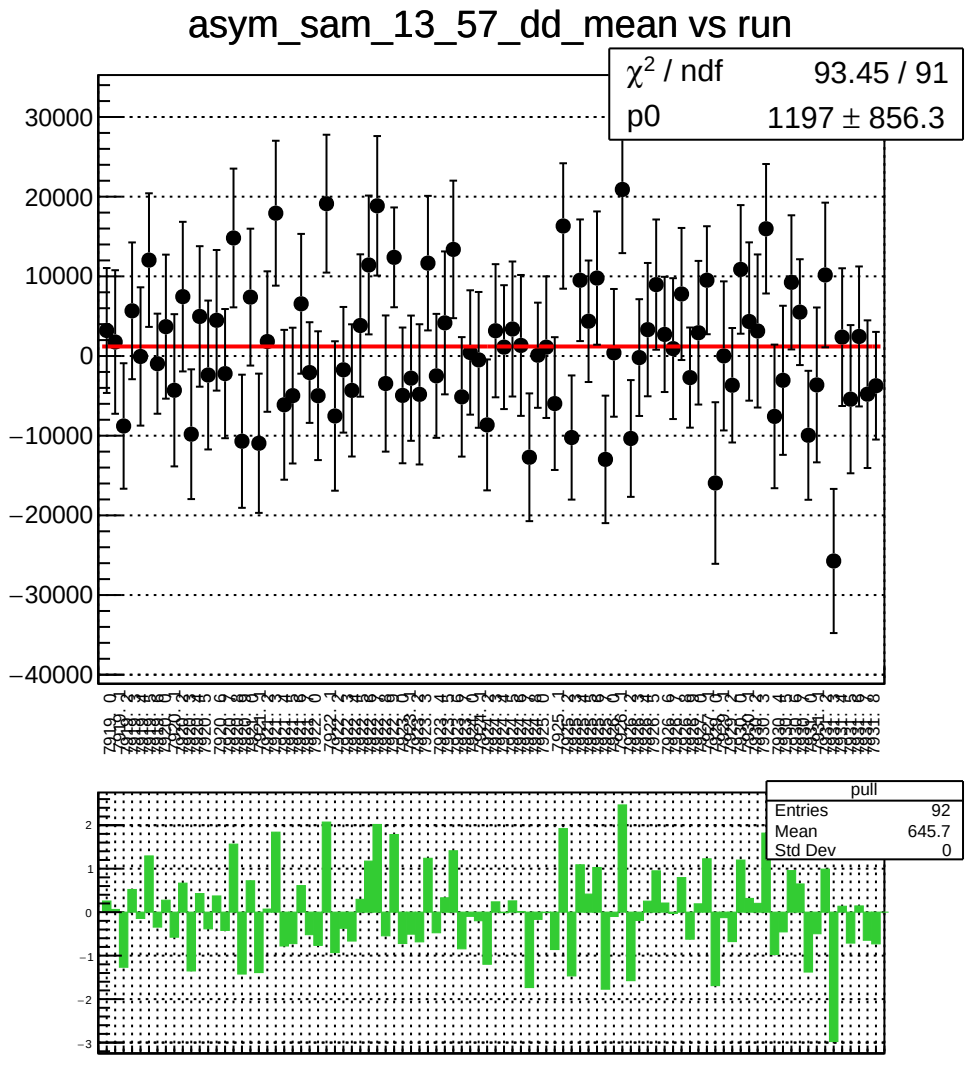

eigen_dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 109.8 / 91
p0 −8.395 ± 104.3
4000
2000
0
−2000
−4000
pull
Entries 92
Mean 24.61
Std Dev 55.61
2
1
0
−1
−2
−3

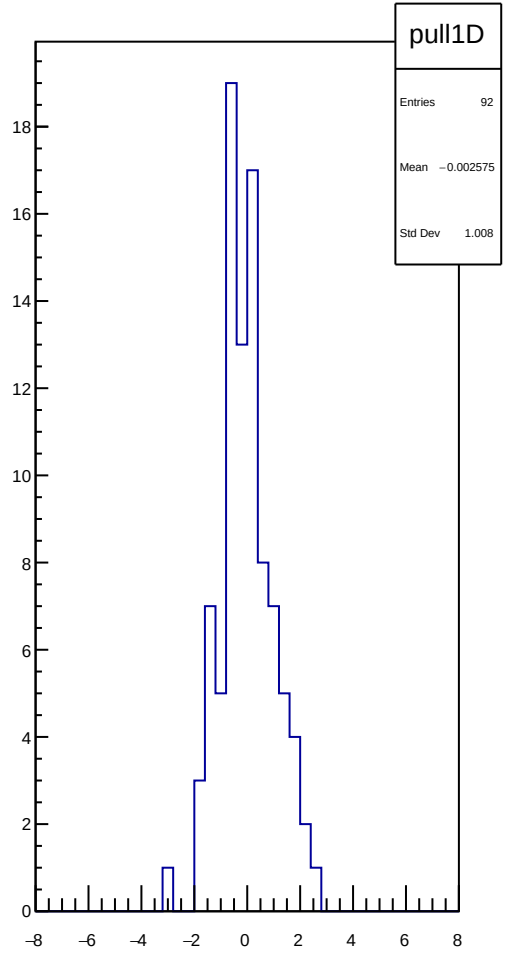

pull1D
Entries 92
Mean −0.00855
Std Dev 1.092
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

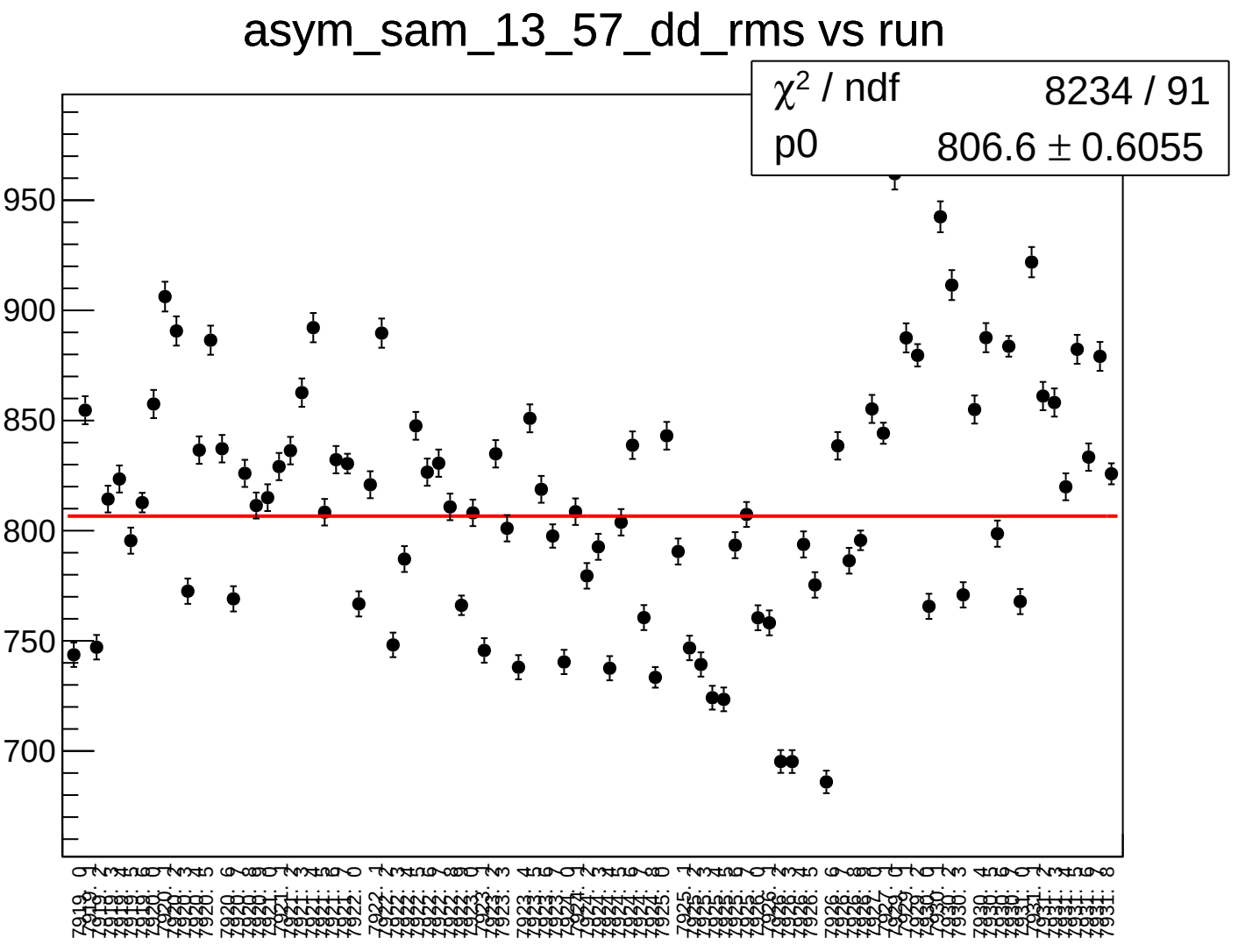

eigen_dit_asym_sam_13_57_dd_rms vs run
χ^2 / ndf 7031 / 91
p0 98.29 ± 0.07375
120
115
110
105
100
95
90
85

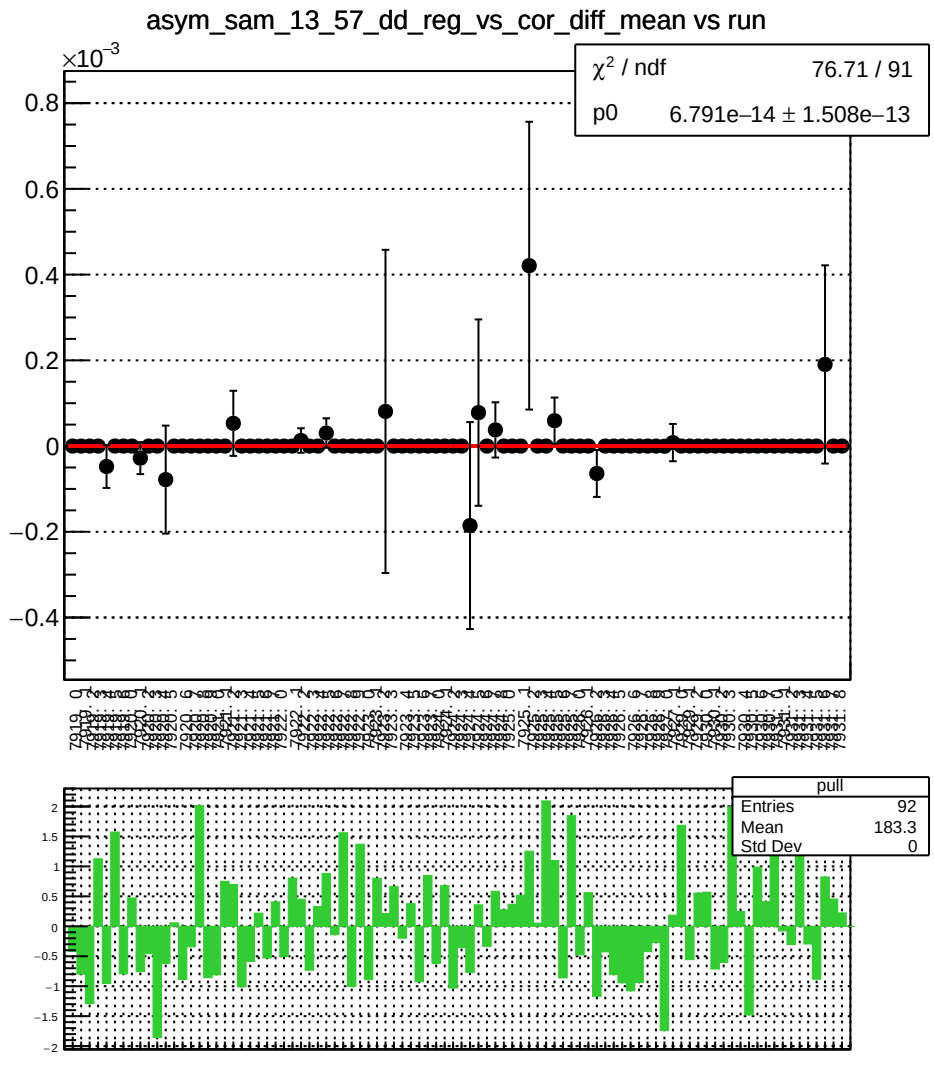

asym_sam_13_57_dd_eigen_dit_correction_mean vs run
χ² / ndf 97.02 / 91
p0 −1193 ± 839.1
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean 1676
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.0009762
Std Dev 1.027
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

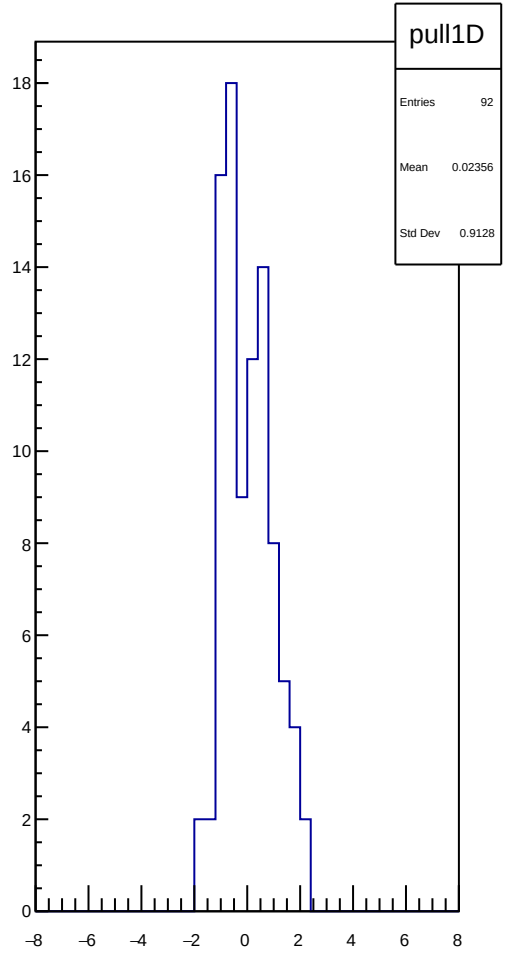

asym_sam_13_57_dd_eigen_dit_correction_rms vs run
χ² / ndf 8208 / 91
p0 790.4 ± 0.5933
950
900
850
800
750
700
650

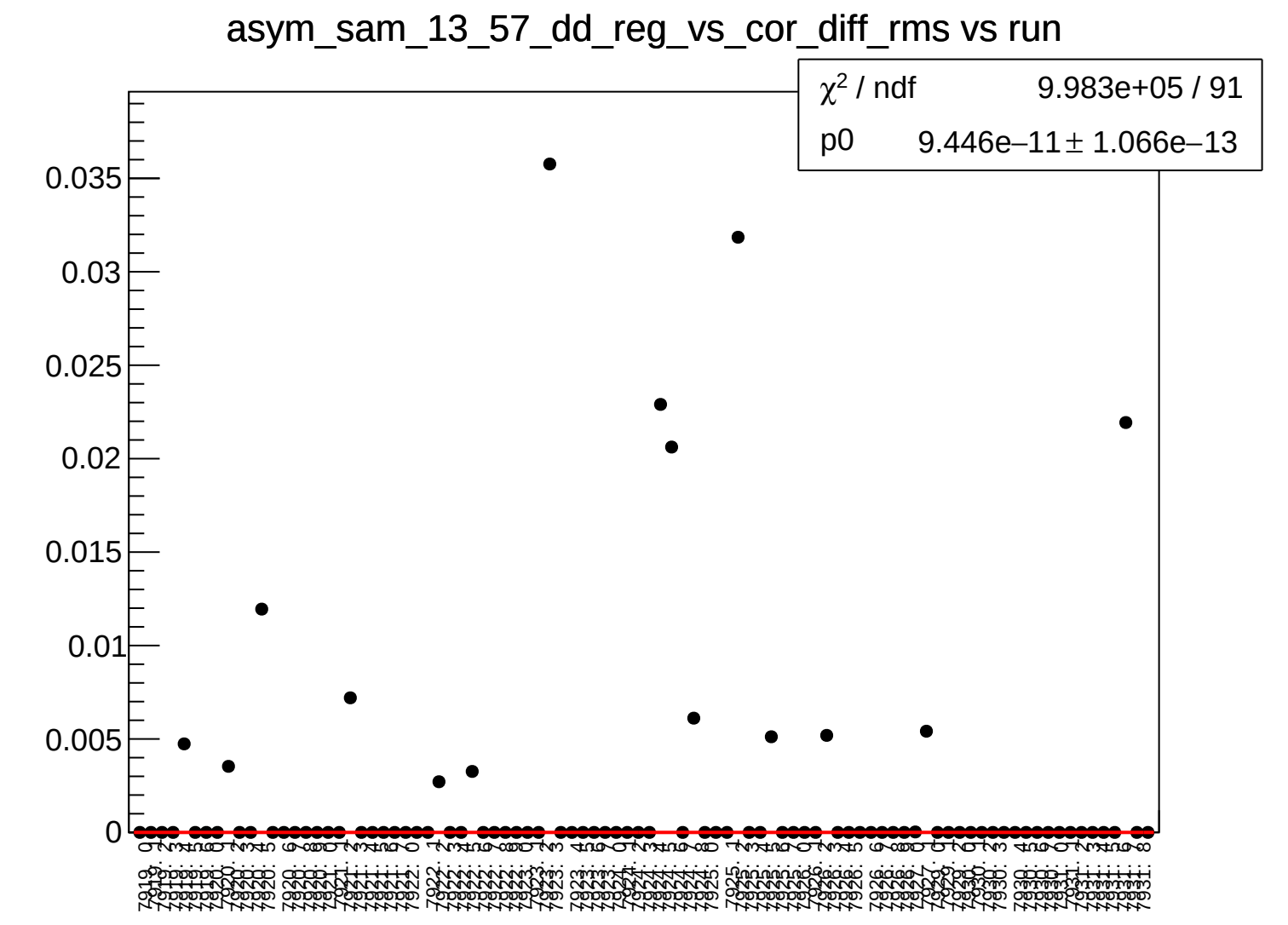

asym_sam_13_57_dd_mean vs run
χ^2 / ndf 93.45 / 91
p0 1197 ± 856.3
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 92
Mean 645.7
Std Dev 0
2
1
0
−1
−2
−3

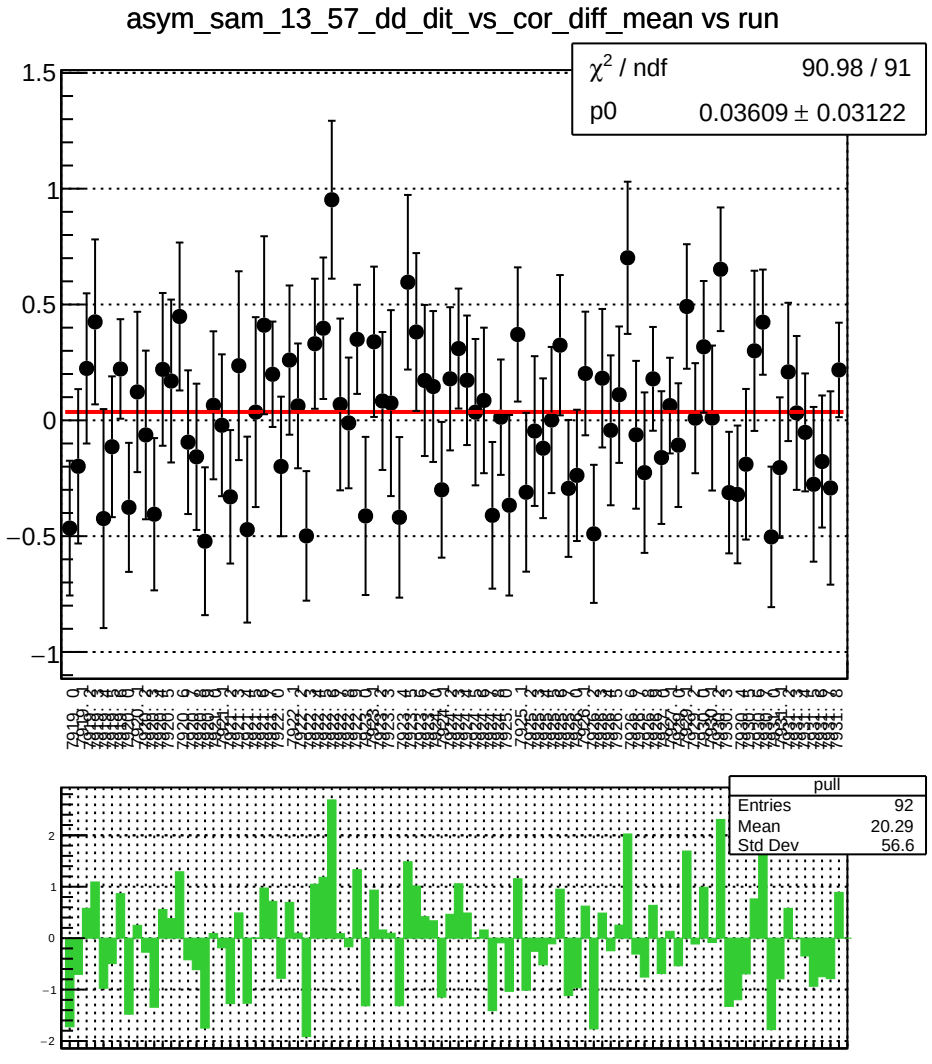

pull1D
Entries 92
Mean −0.002575
Std Dev 1.008
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

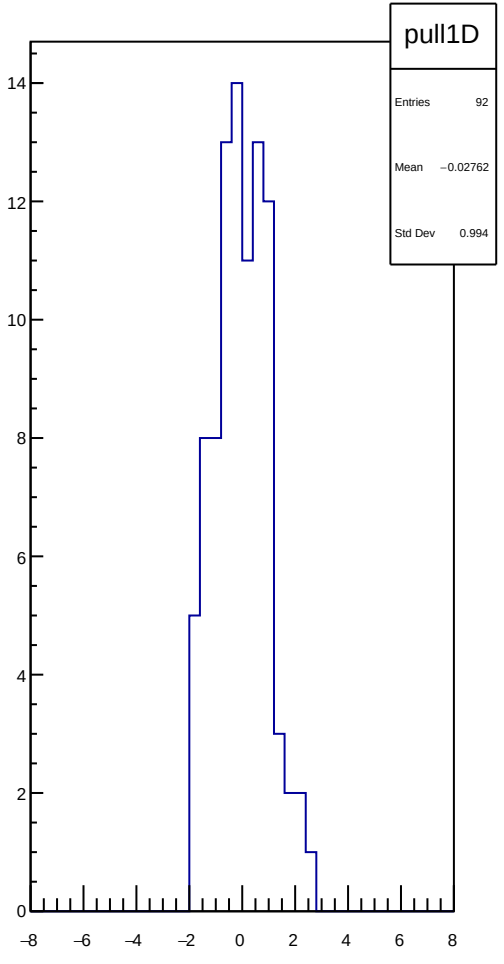

asym_sam_13_57_dd_rms vs run
χ² / ndf 8234 / 91
p0 806.6 ± 0.6055
950
900
850
800
750
700

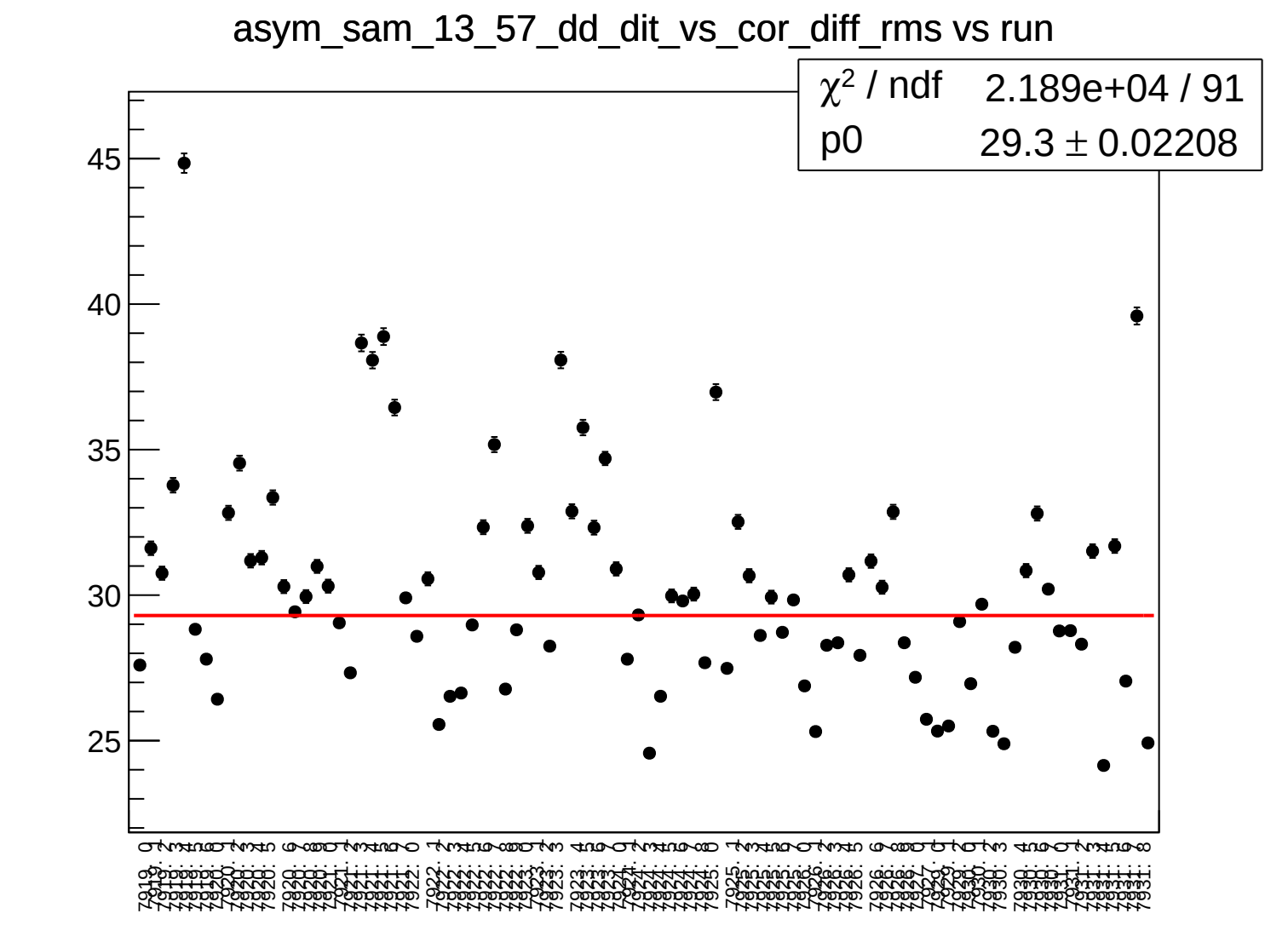

asym_sam_13_57_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 76.71 / 91
p0 6.791e−14 ± 1.508e−13
pull
Entries 92
Mean 183.3
Std Dev 0

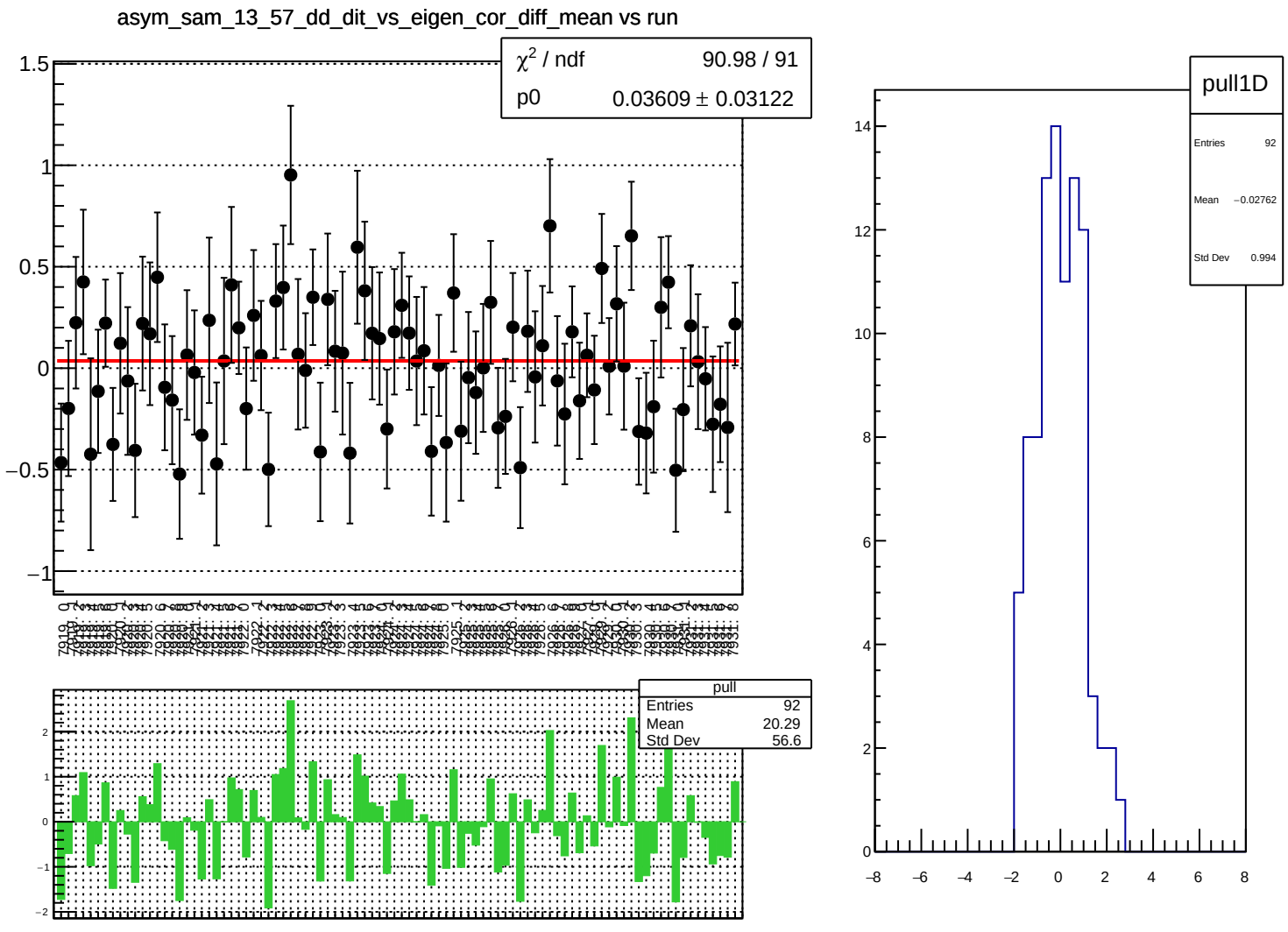

pull1D
Entries 92
Mean 0.02356
Std Dev 0.9128

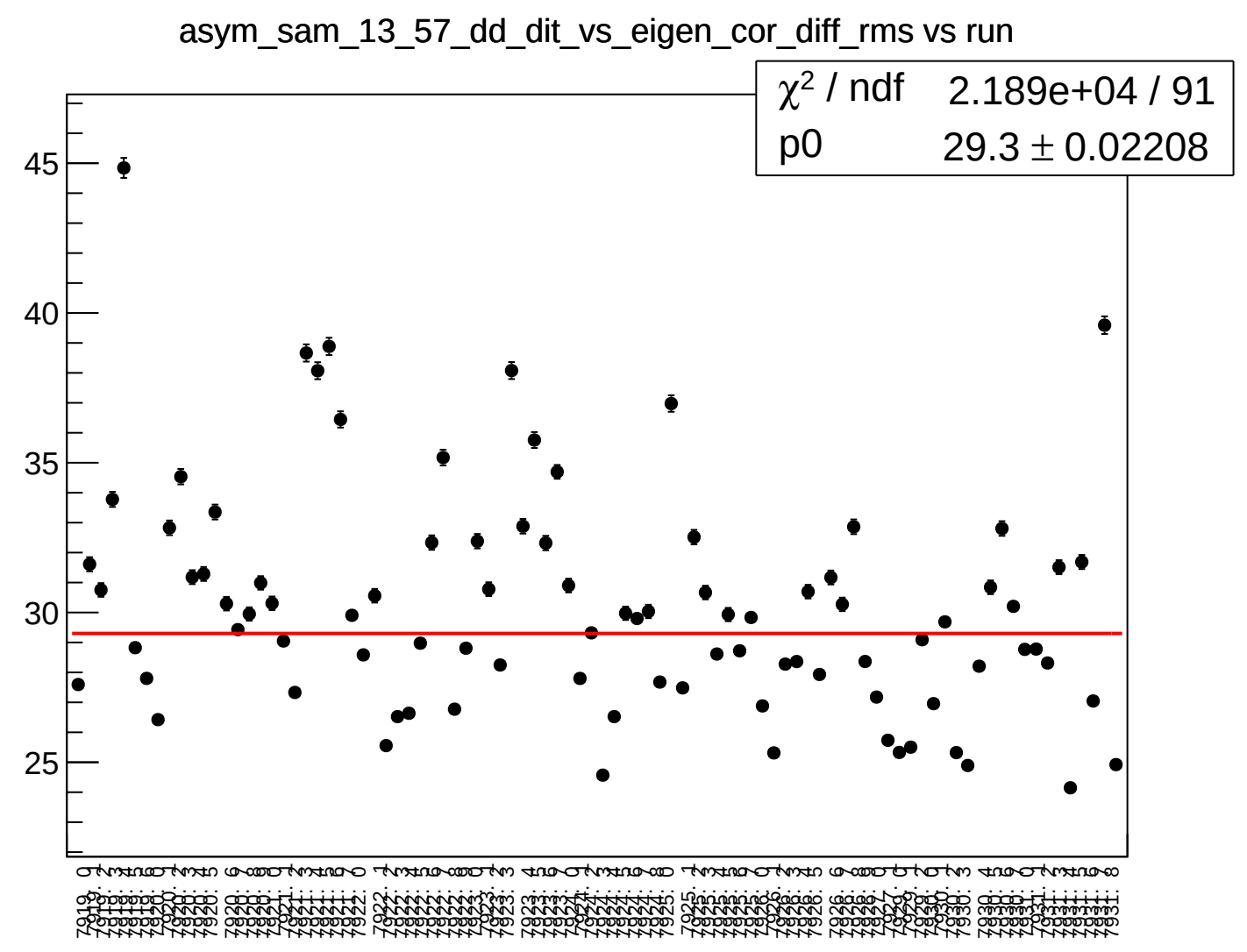

asym_sam_13_57_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.983e+05 / 91
p0 9.446e−11 ± 1.066e−13
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

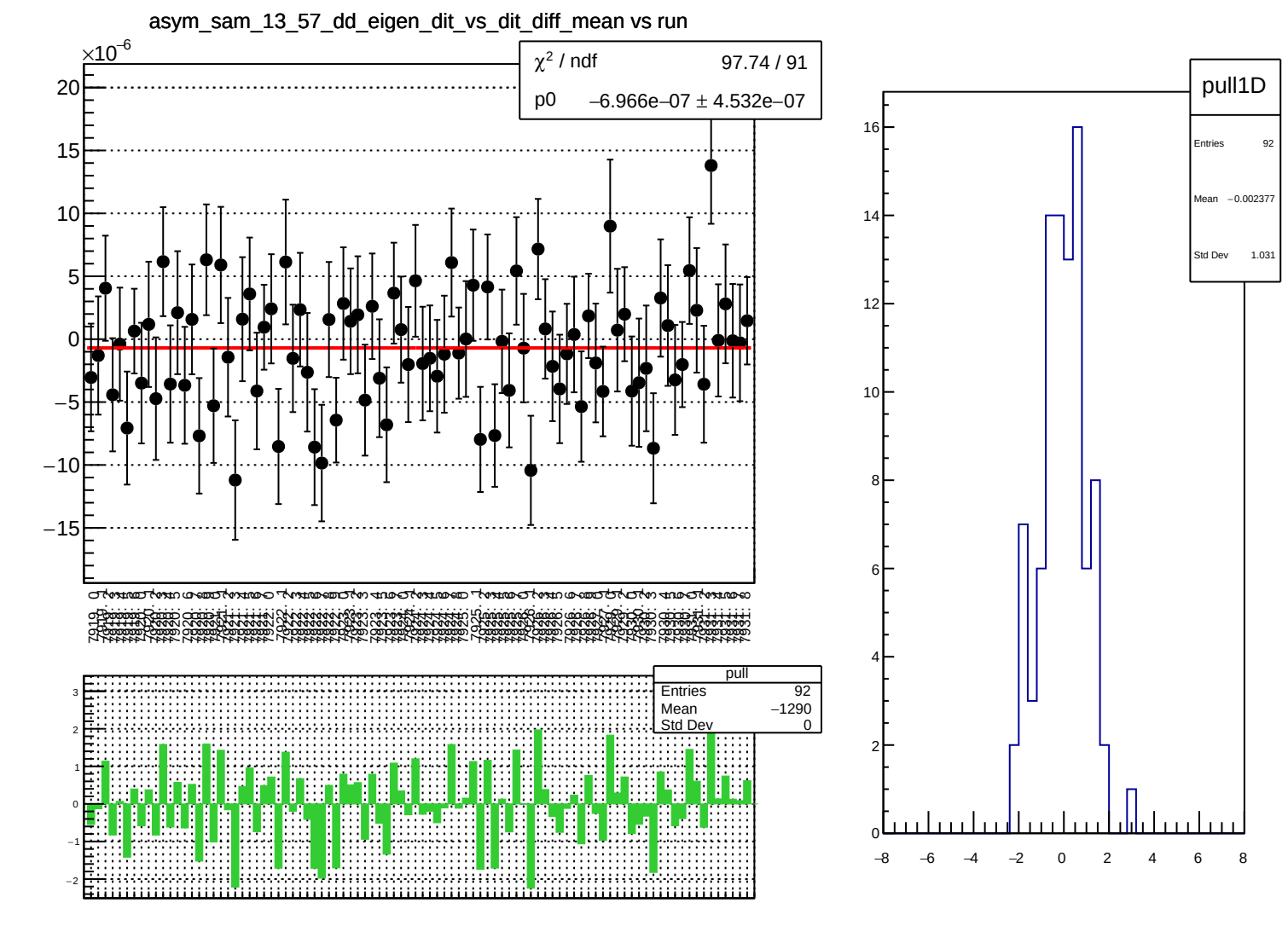

asym_sam_13_57_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 90.98 / 91
p0 0.03609 ± 0.03122
pull
Entries 92
Mean 20.29
Std Dev 56.6

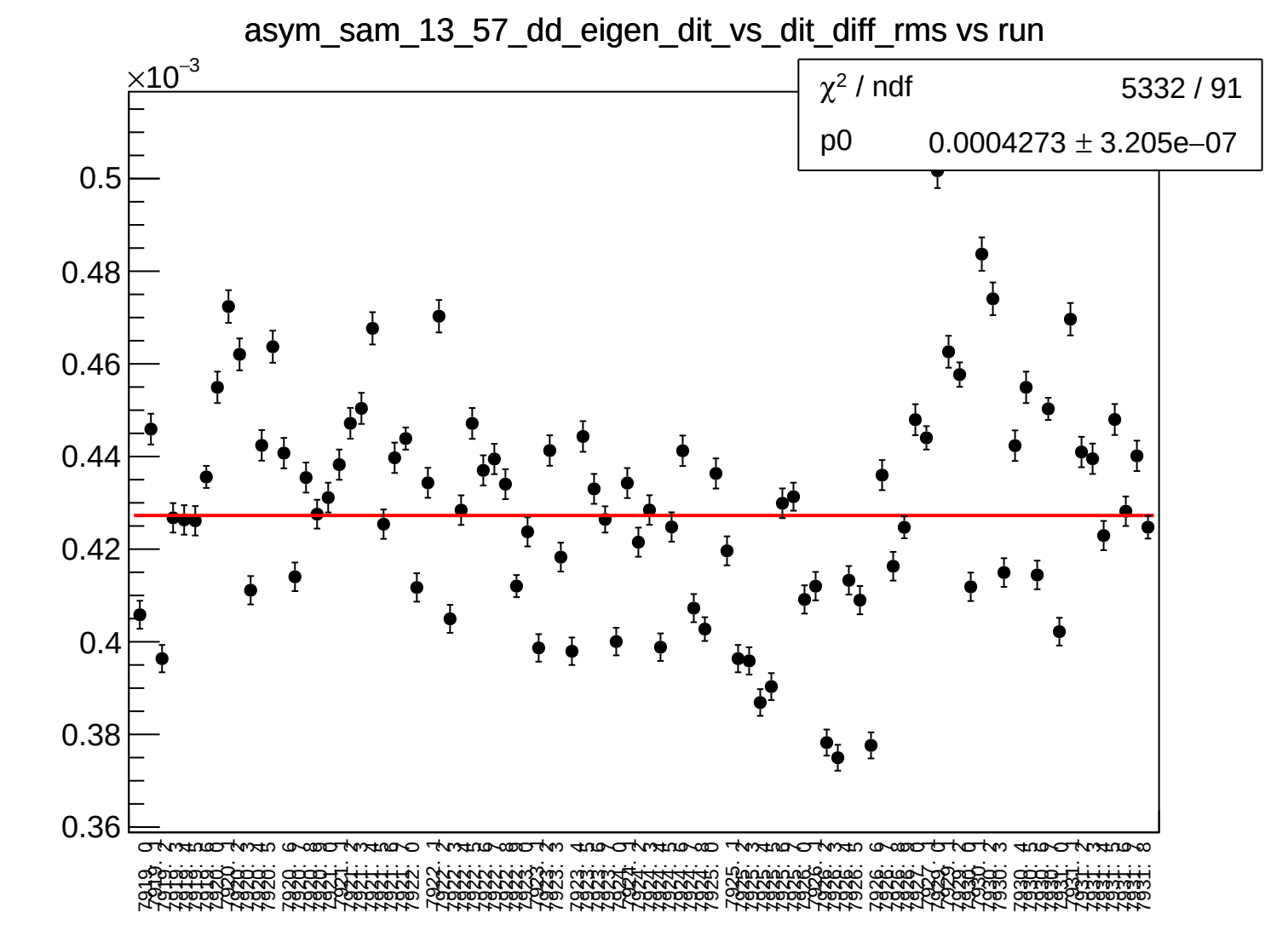

pull1D
Entries 92
Mean −0.02762
Std Dev 0.994

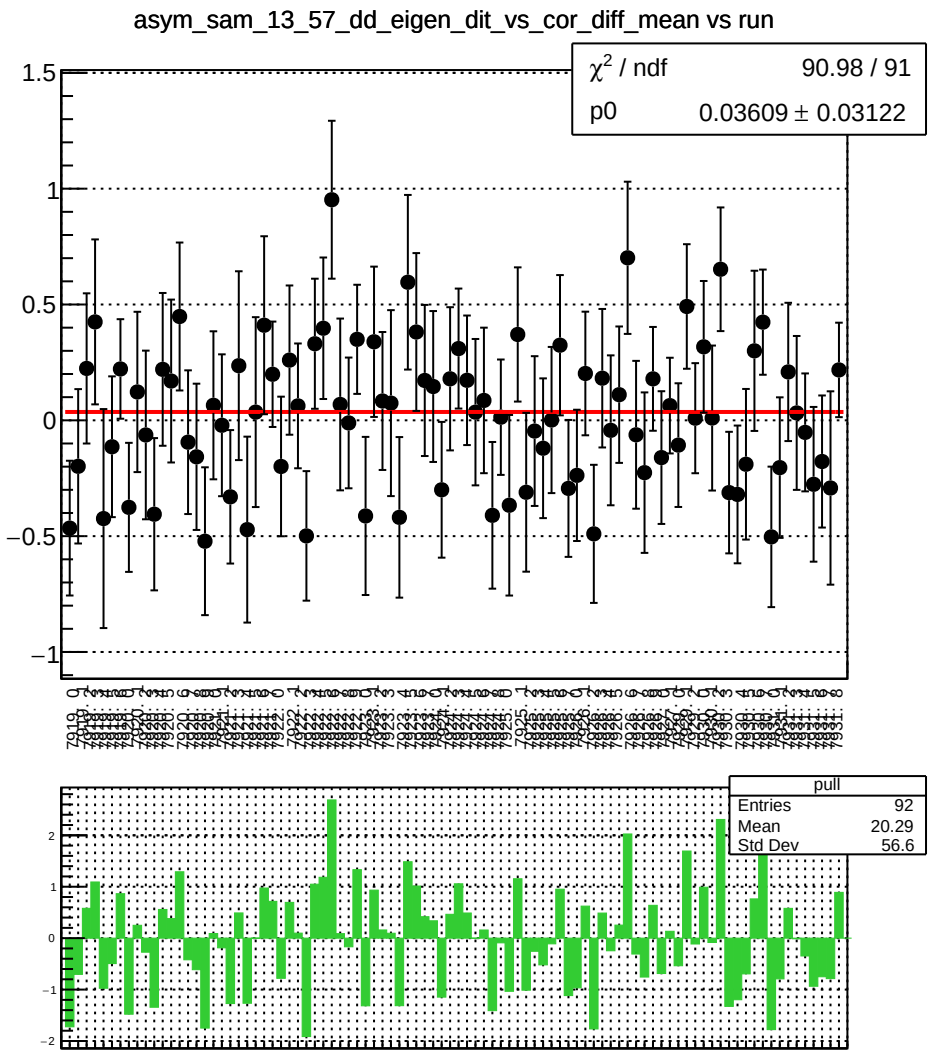

asym_sam_13_57_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.189e+04 / 91
p0 29.3 ± 0.02208
45
40
35
30
25

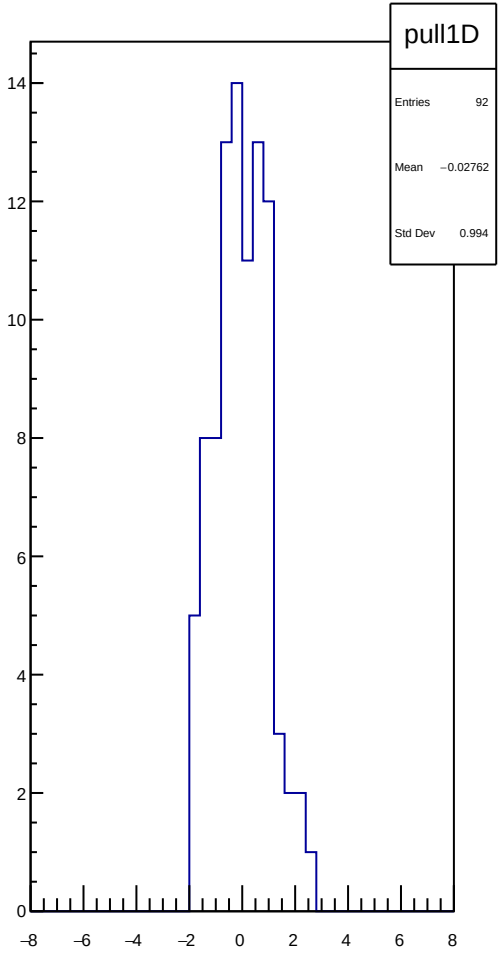

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.98 / 91
p0 0.03609 ± 0.03122
pull
Entries 92
Mean 20.29
Std Dev 56.6
pull1D
Entries 92
Mean −0.02762
Std Dev 0.994

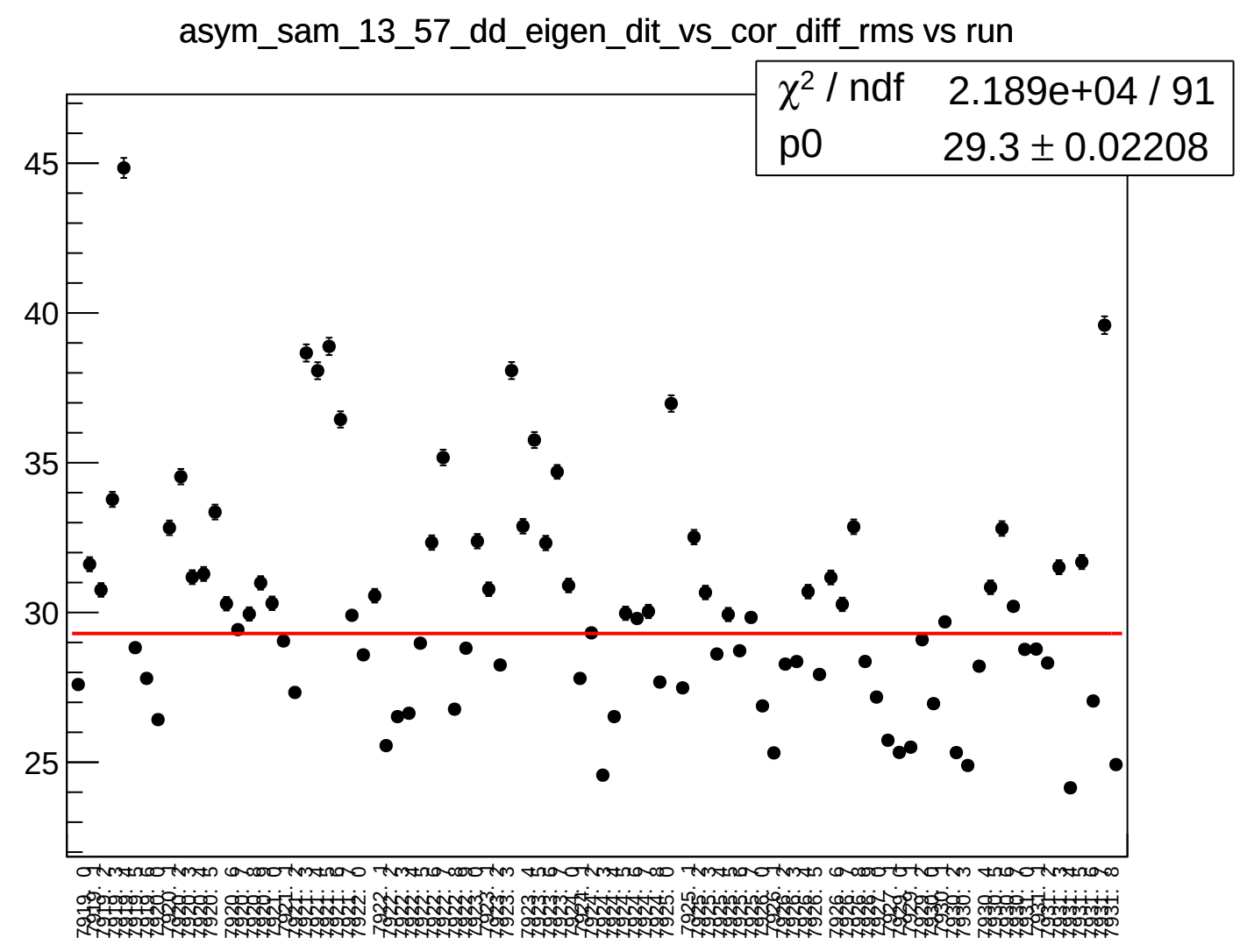

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.189e+04 / 91
p0 29.3 ± 0.02208
45
40
35
30
25

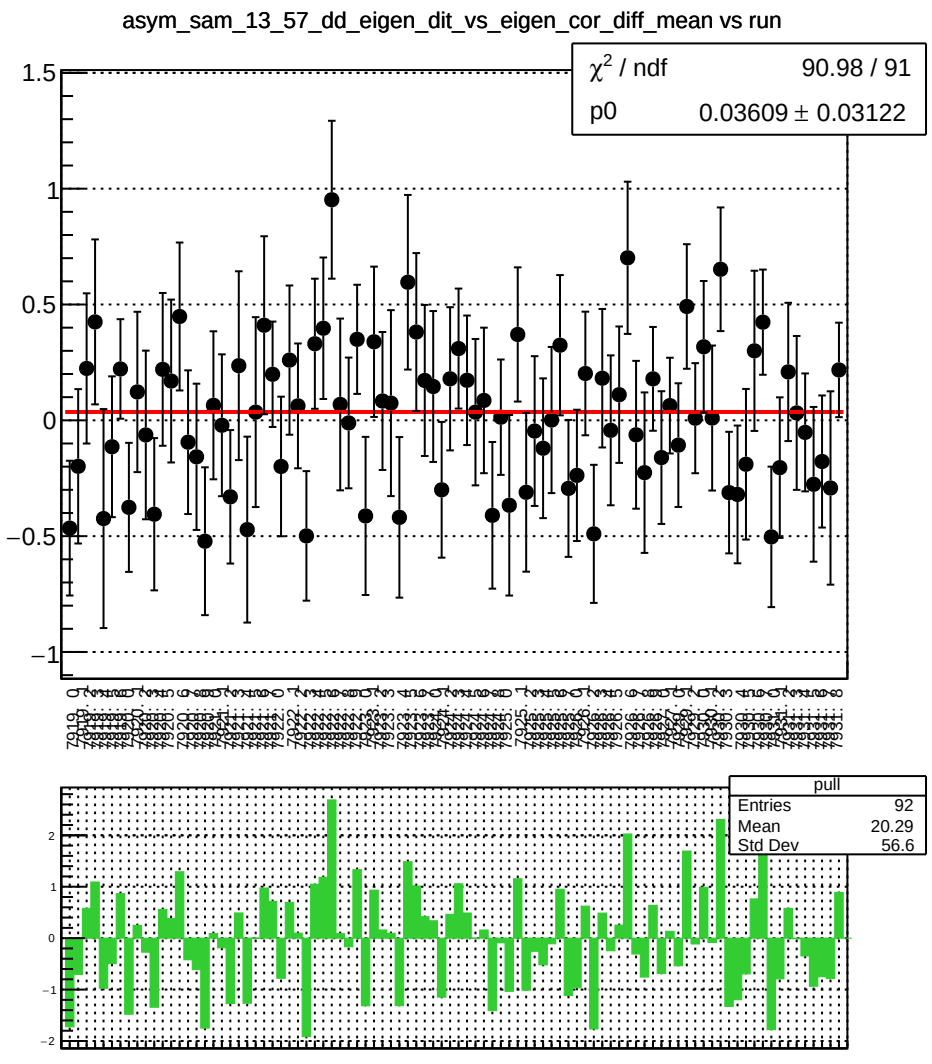

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻⁶
χ² / ndf 97.74 / 91
p0 −6.966e−07 ± 4.532e−07
pull
Entries 92
Mean −1290
Std Dev 0
pull1D
Entries 92
Mean −0.002377
Std Dev 1.031

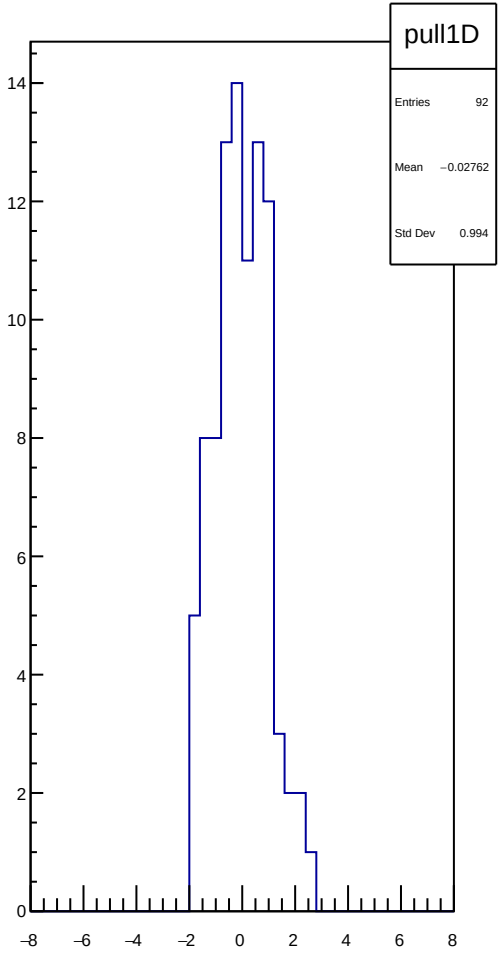

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 5332 / 91
p0 0.0004273 ± 3.205e−07
0.5
0.48
0.46
0.44
0.42
0.4
0.38
0.36

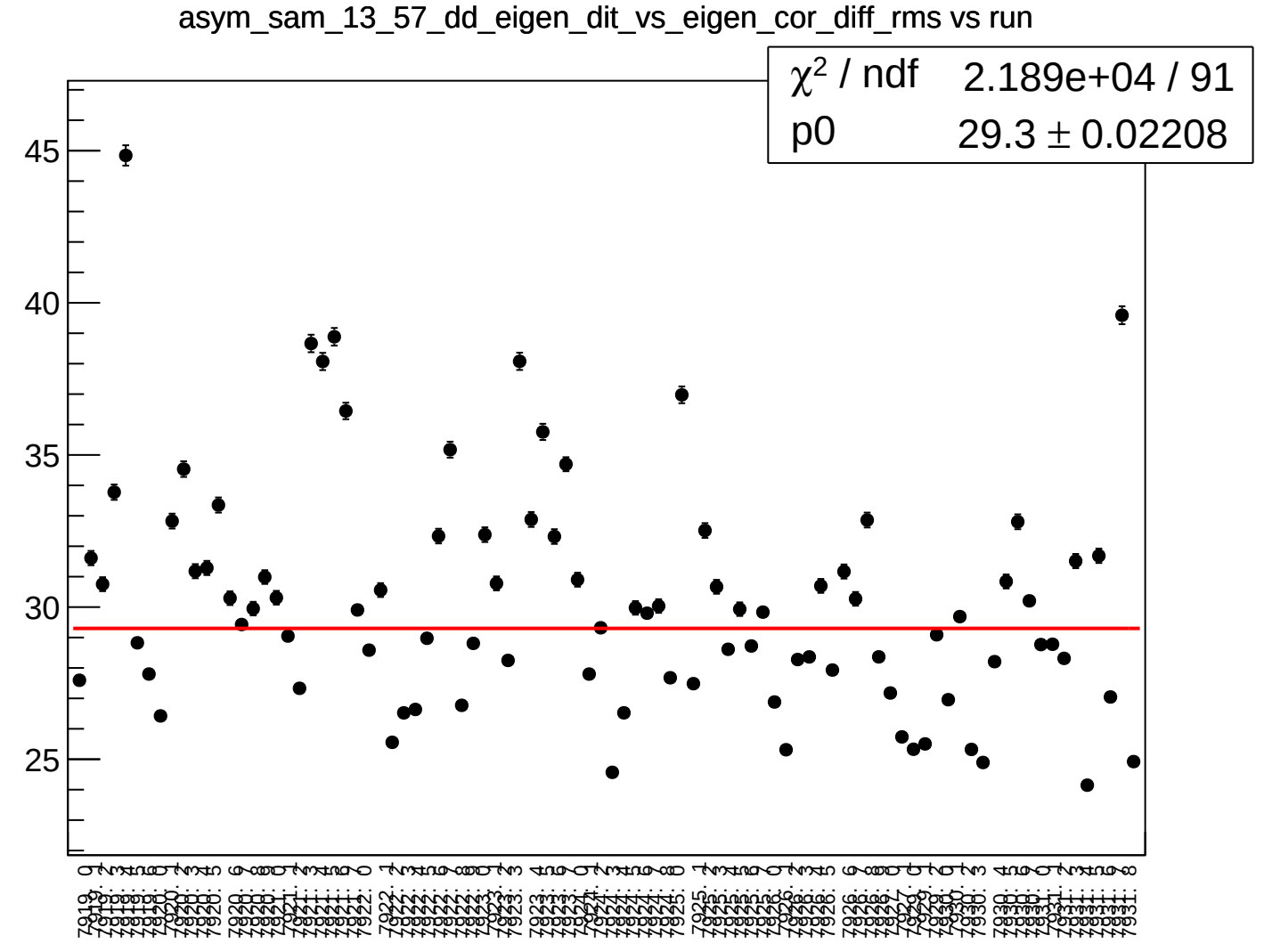

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.98 / 91
p0 0.03609 ± 0.03122
pull
Entries 92
Mean 20.29
Std Dev 56.6

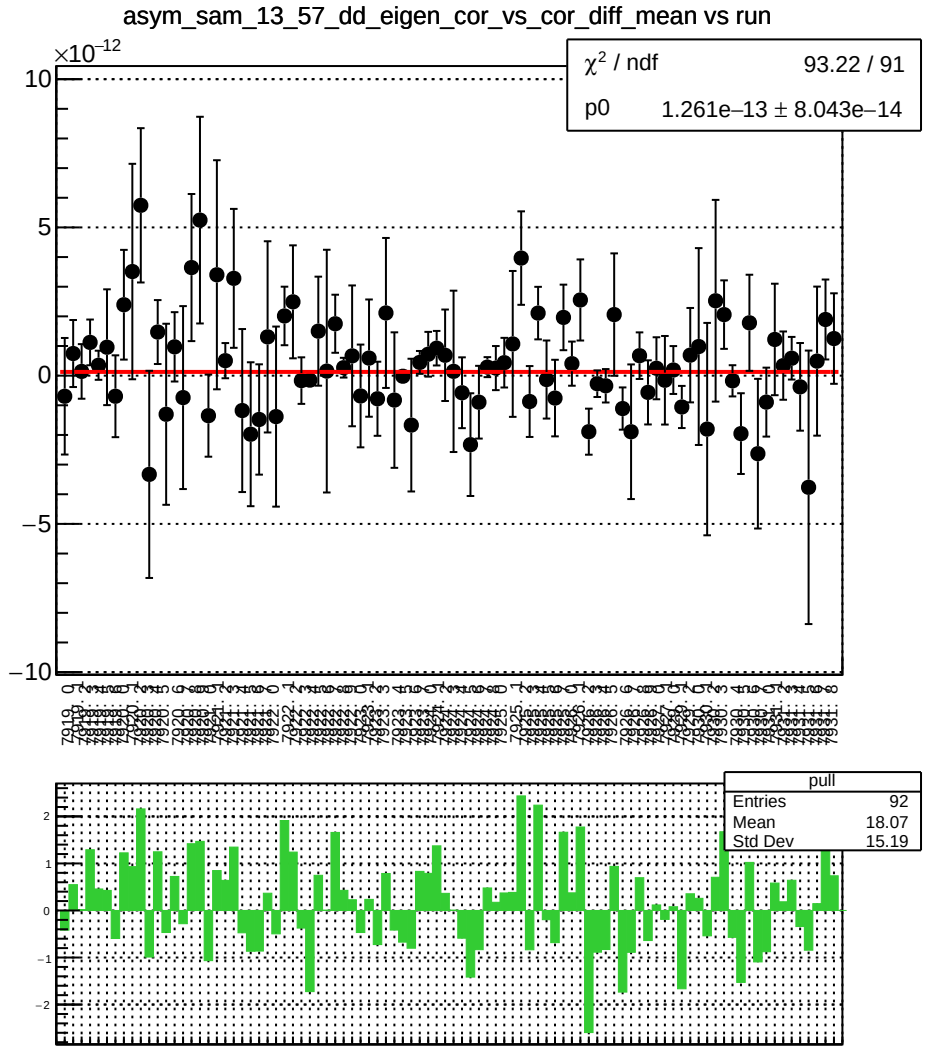

pull1D
Entries 92
Mean −0.02762
Std Dev 0.994

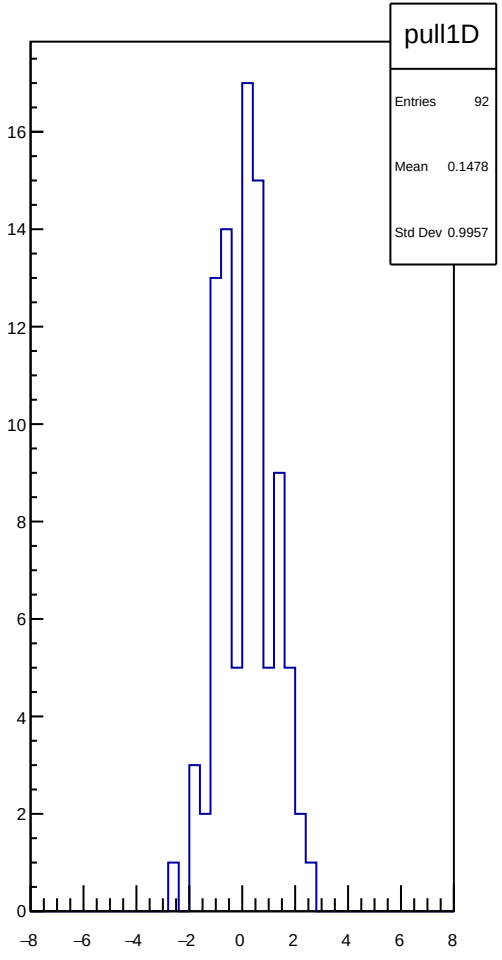

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.189e+04 / 91
p0 29.3 ± 0.02208
45
40
35
30
25

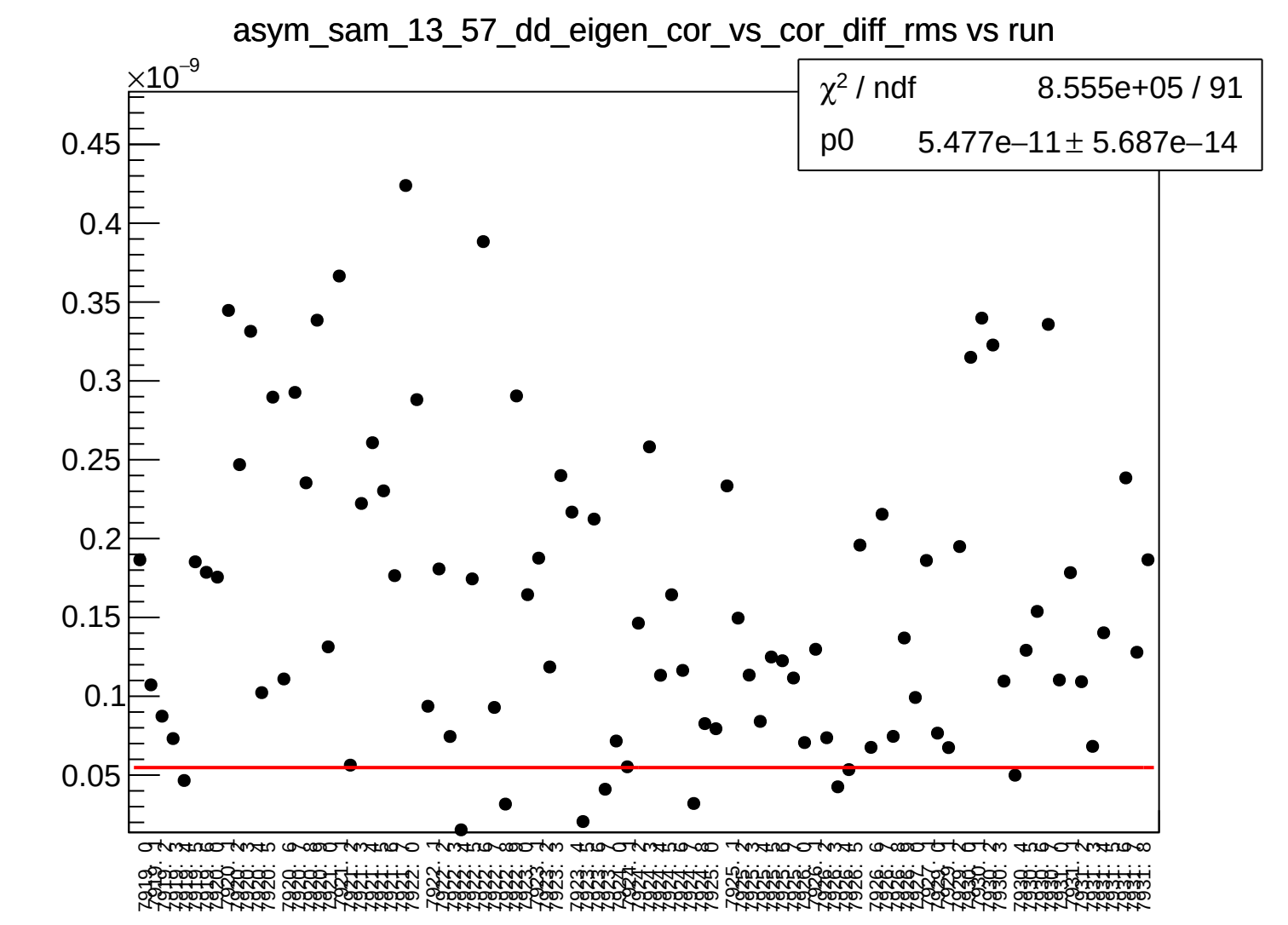

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.98 / 91
p0 0.03609 ± 0.03122
pull
Entries 92
Mean 20.29
Std Dev 56.6

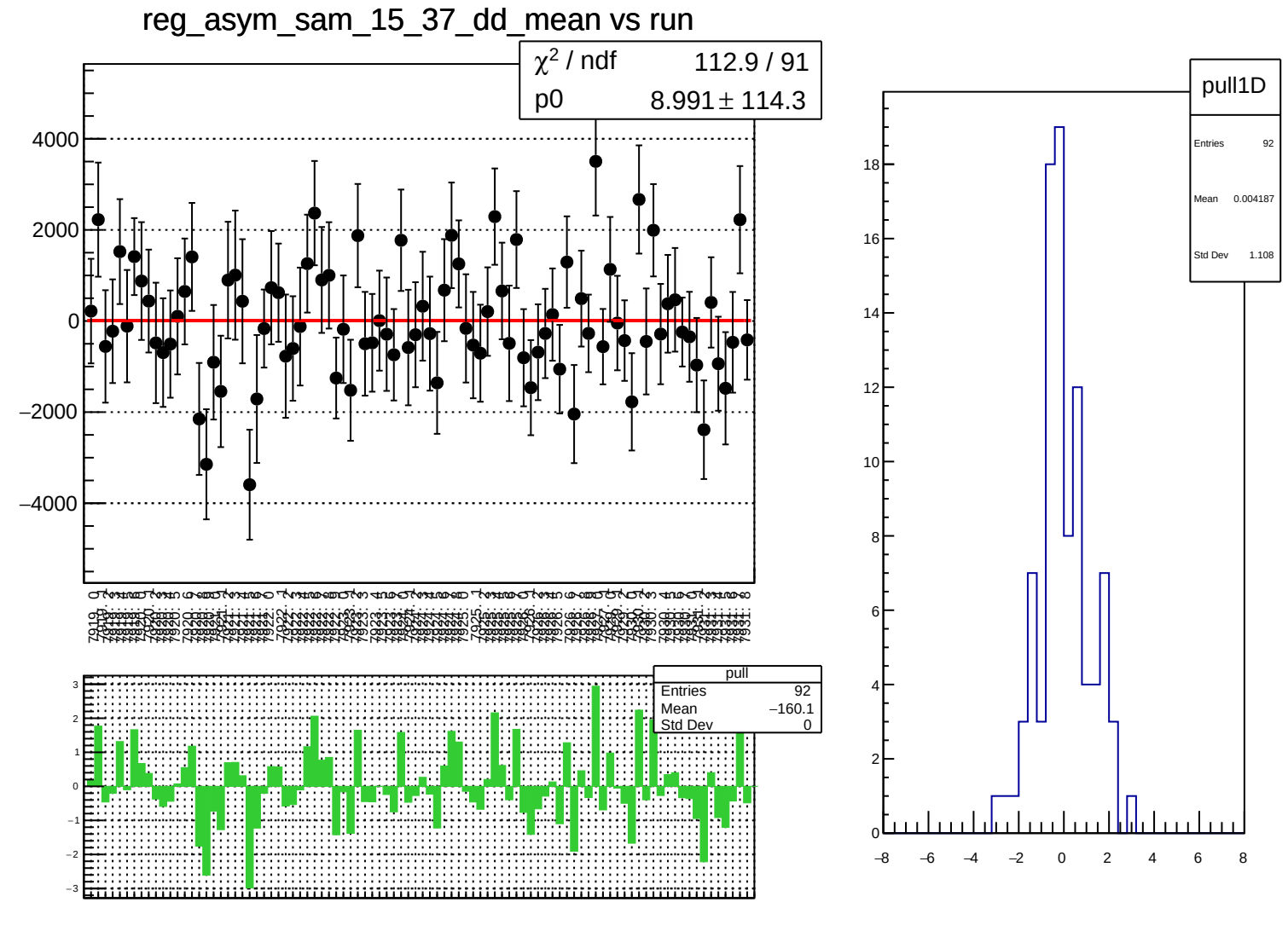

pull1D
Entries 92
Mean −0.02762
Std Dev 0.994

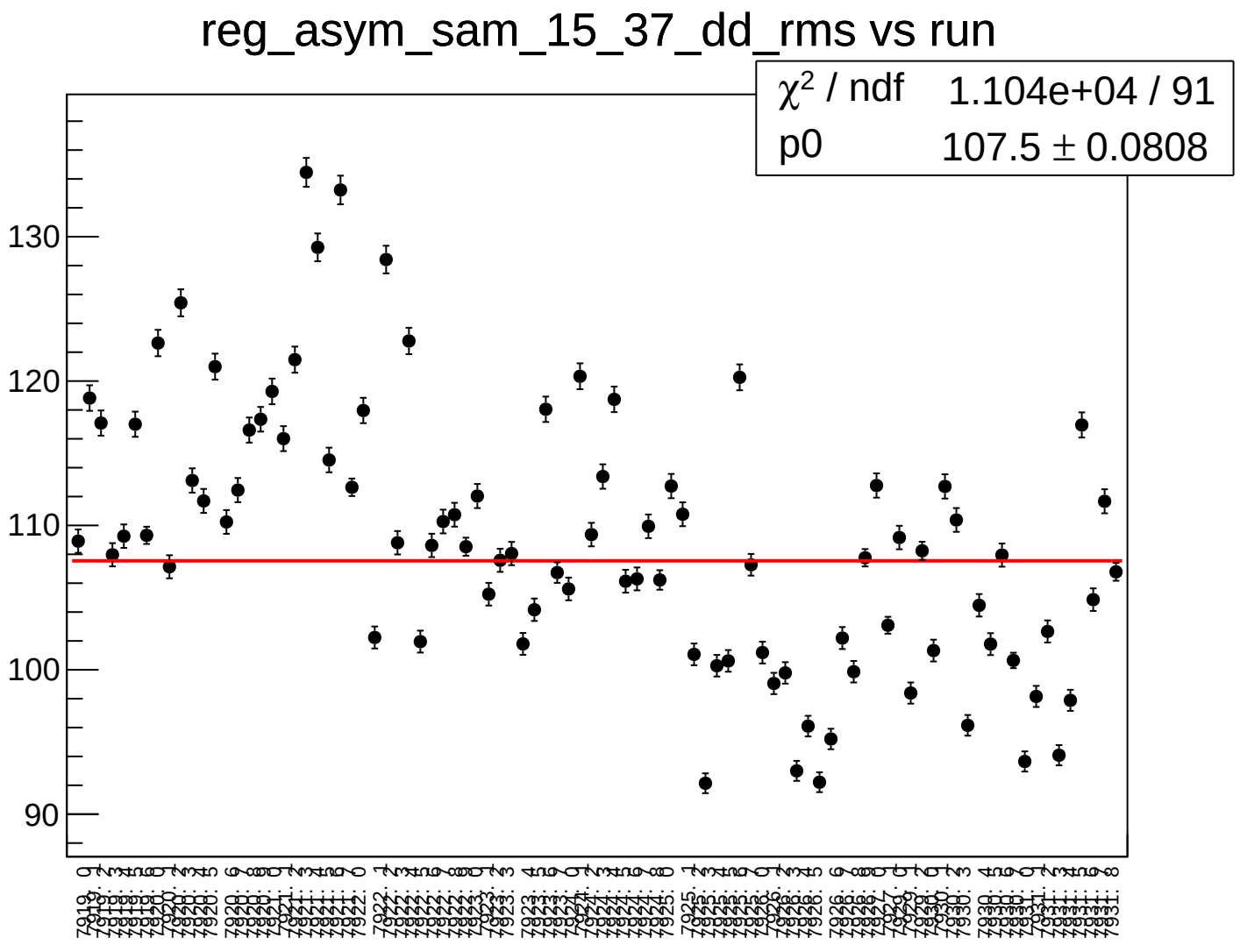

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.189e+04 / 91
p0 29.3 ± 0.02208
45
40
35
30
25

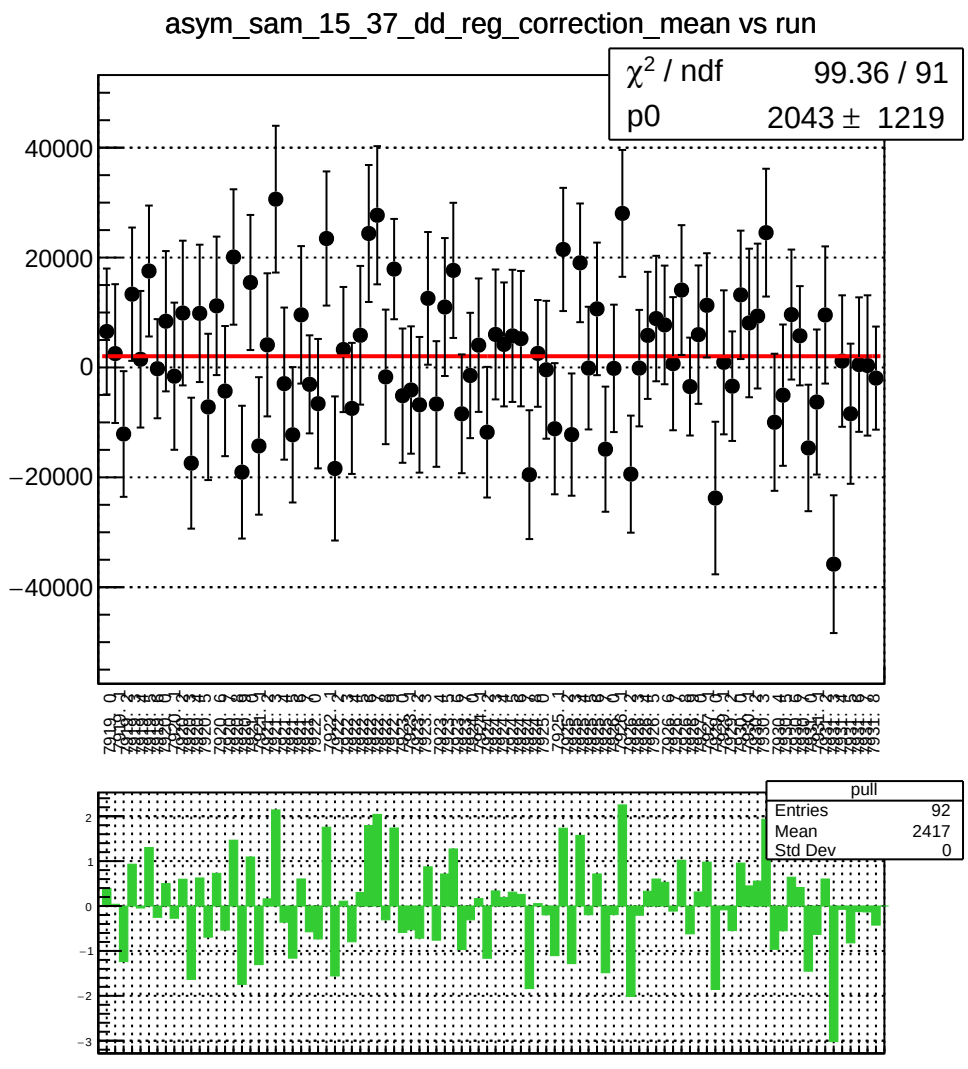

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.22 / 91
p0 1.261e−13 ± 8.043e−14
pull
Entries 92
Mean 18.07
Std Dev 15.19

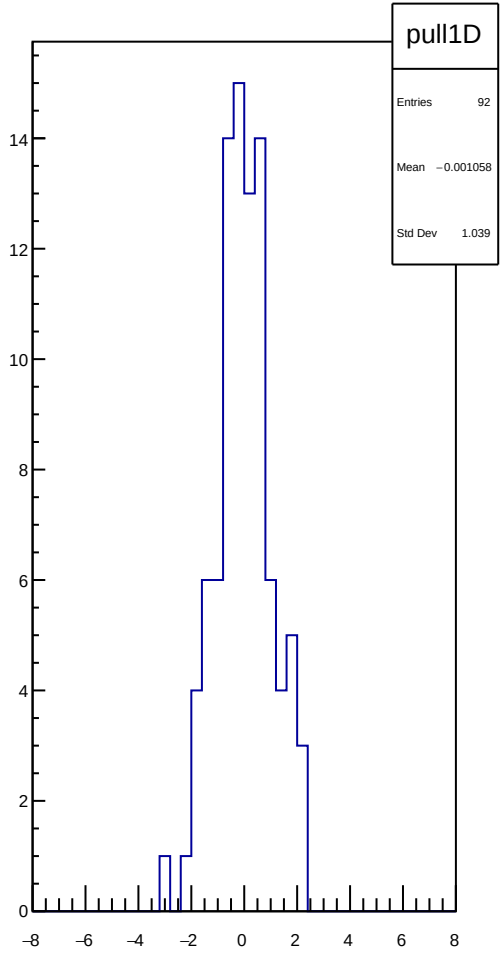

pull1D
Entries 92
Mean 0.1478
Std Dev 0.9957

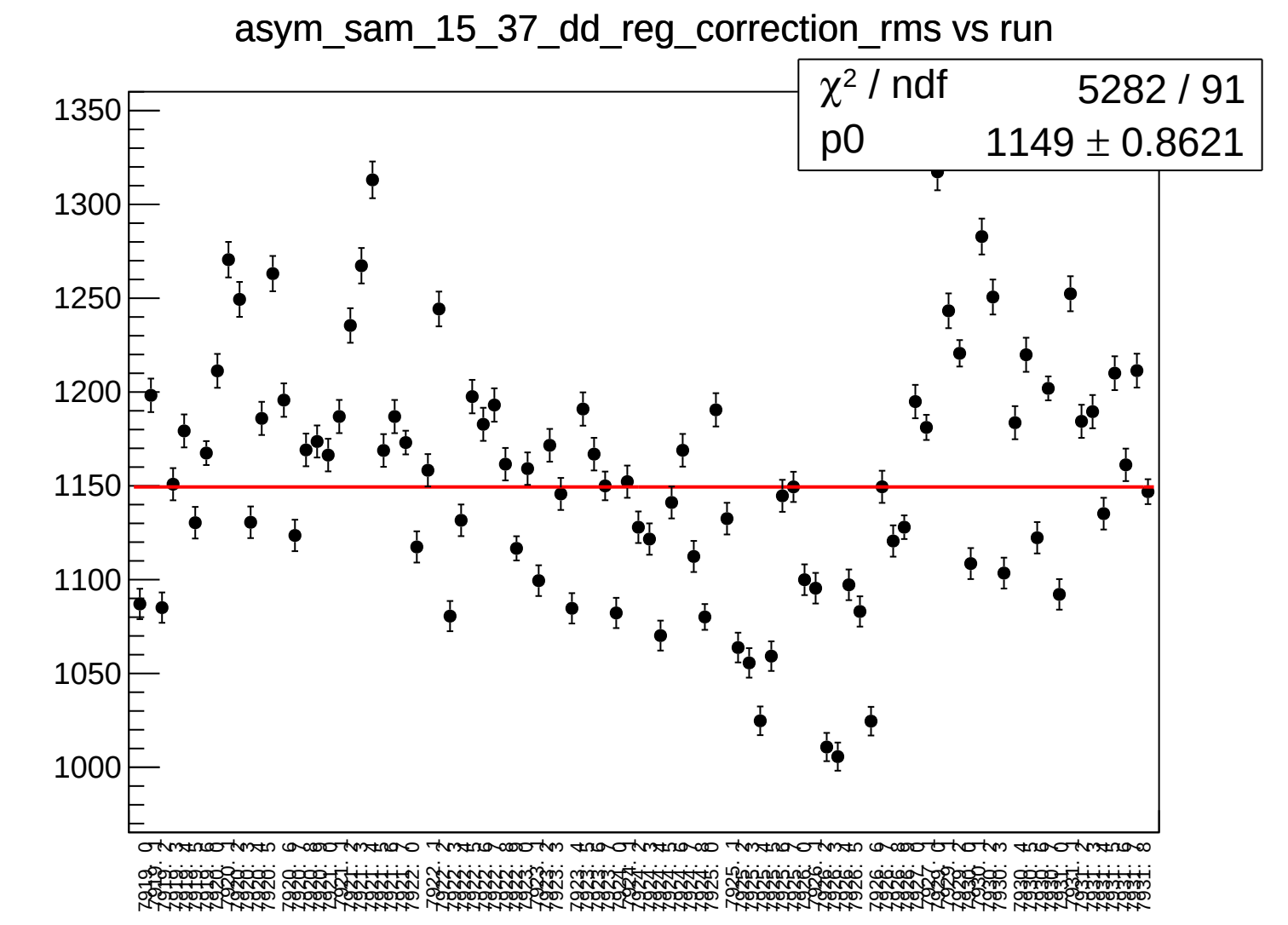

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.555e+05 / 91
p0 5.477e−11 ± 5.687e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

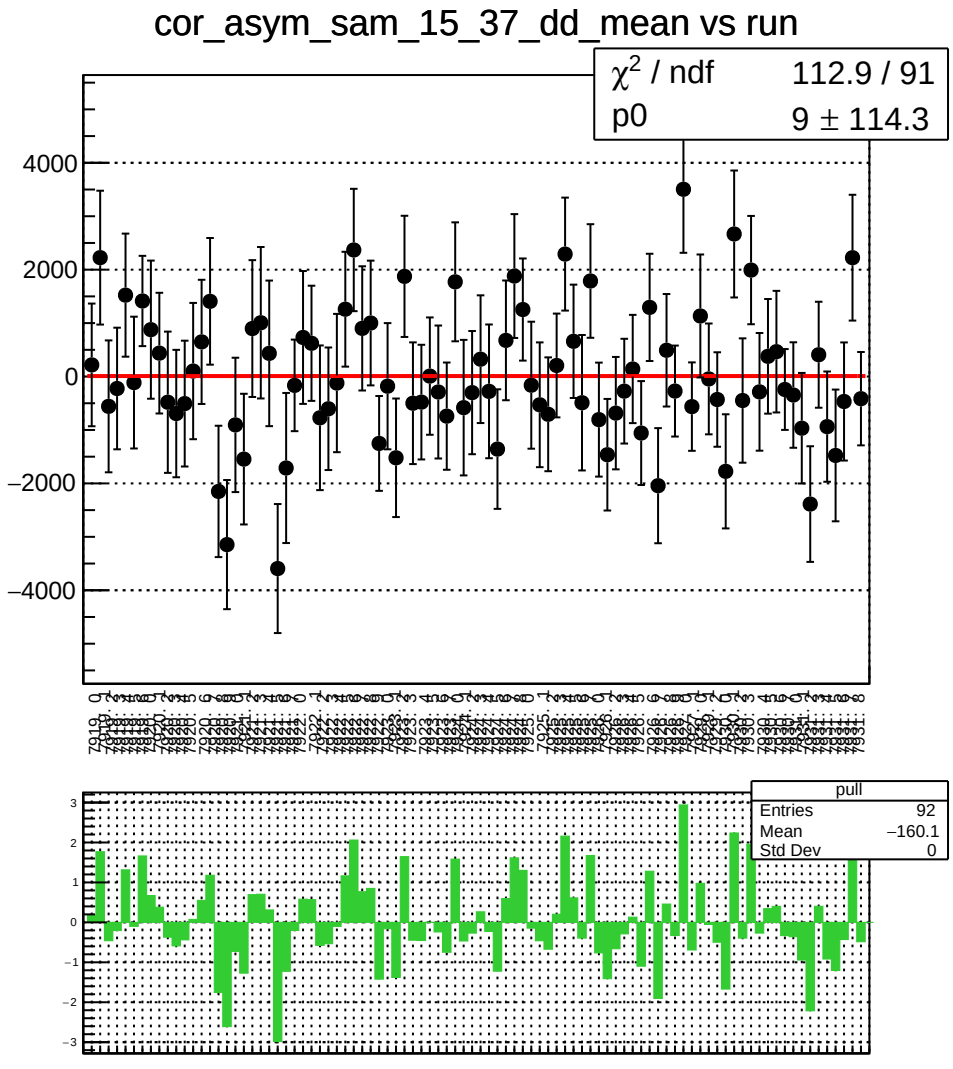

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 112.9 / 91
p0 8.991 ± 114.3
4000
2000
0
−2000
−4000
pull
Entries 92
Mean −160.1
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean 0.004187
Std Dev 1.108
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

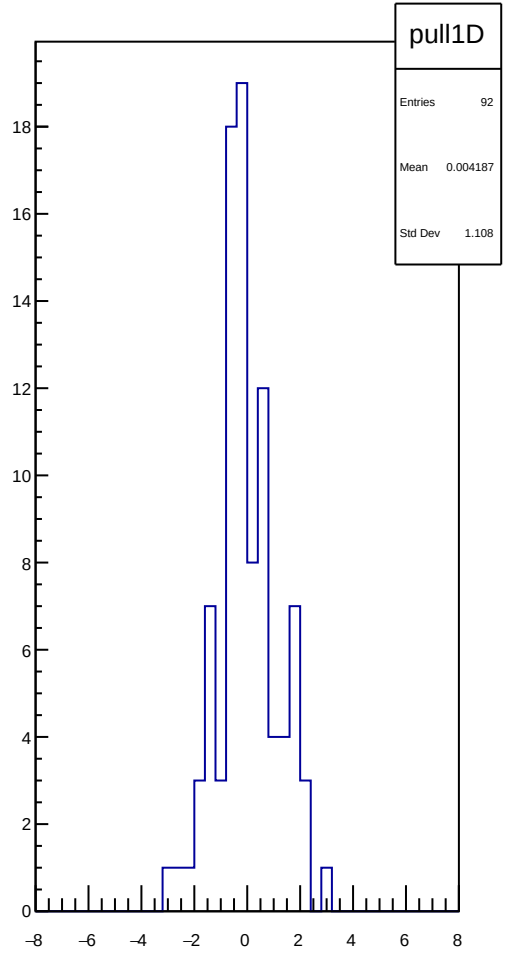

reg_asym_sam_15_37_dd_rms vs run
χ² / ndf 1.104e+04 / 91
p0 107.5 ± 0.0808
130
120
110
100
90

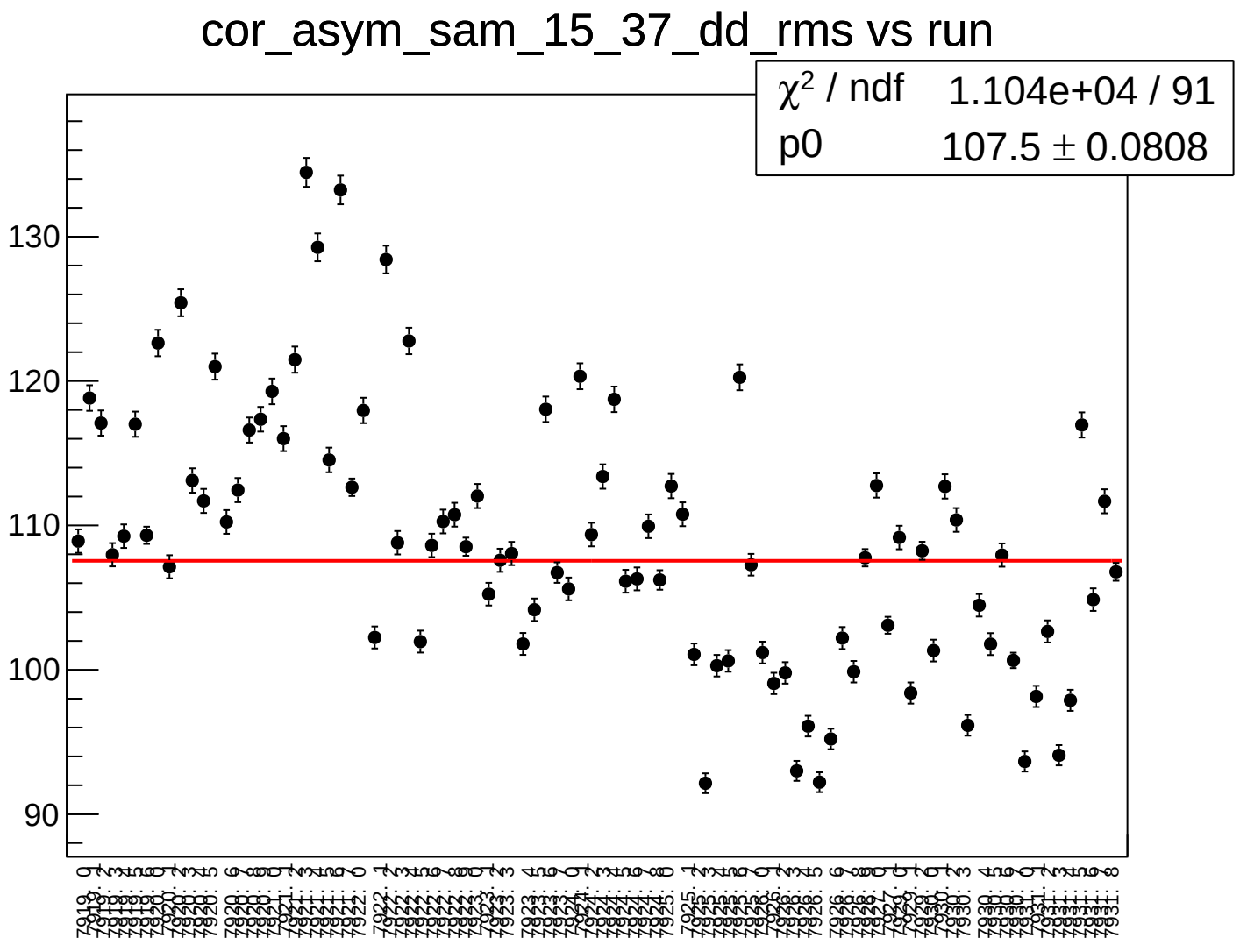

asym_sam_15_37_dd_reg_correction_mean vs run
χ² / ndf 99.36 / 91
p0 2043 ± 1219
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 2417
Std Dev 0
2
1
0
−1
−2
−3

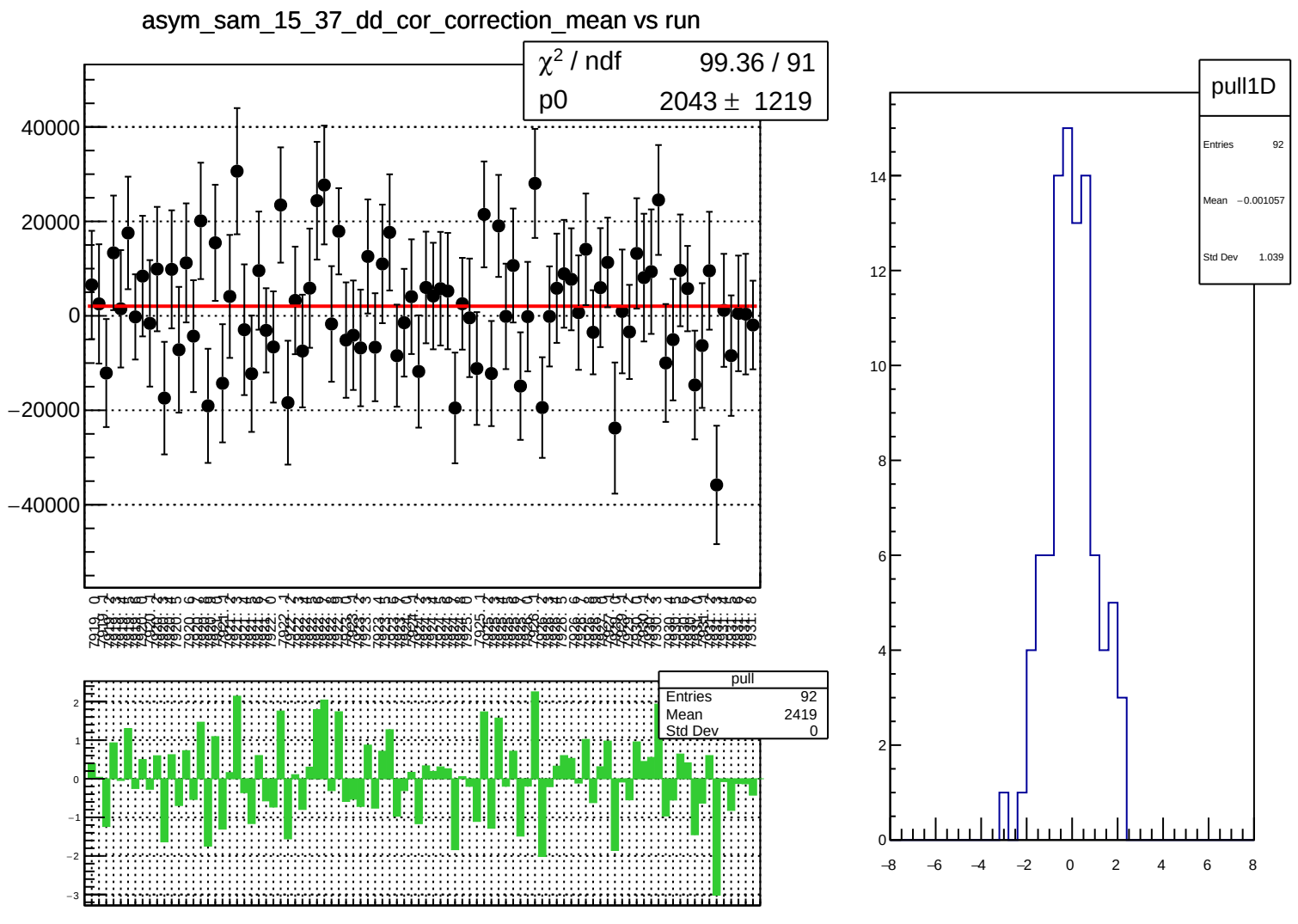

pull1D
Entries 92
Mean −0.001058
Std Dev 1.039
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

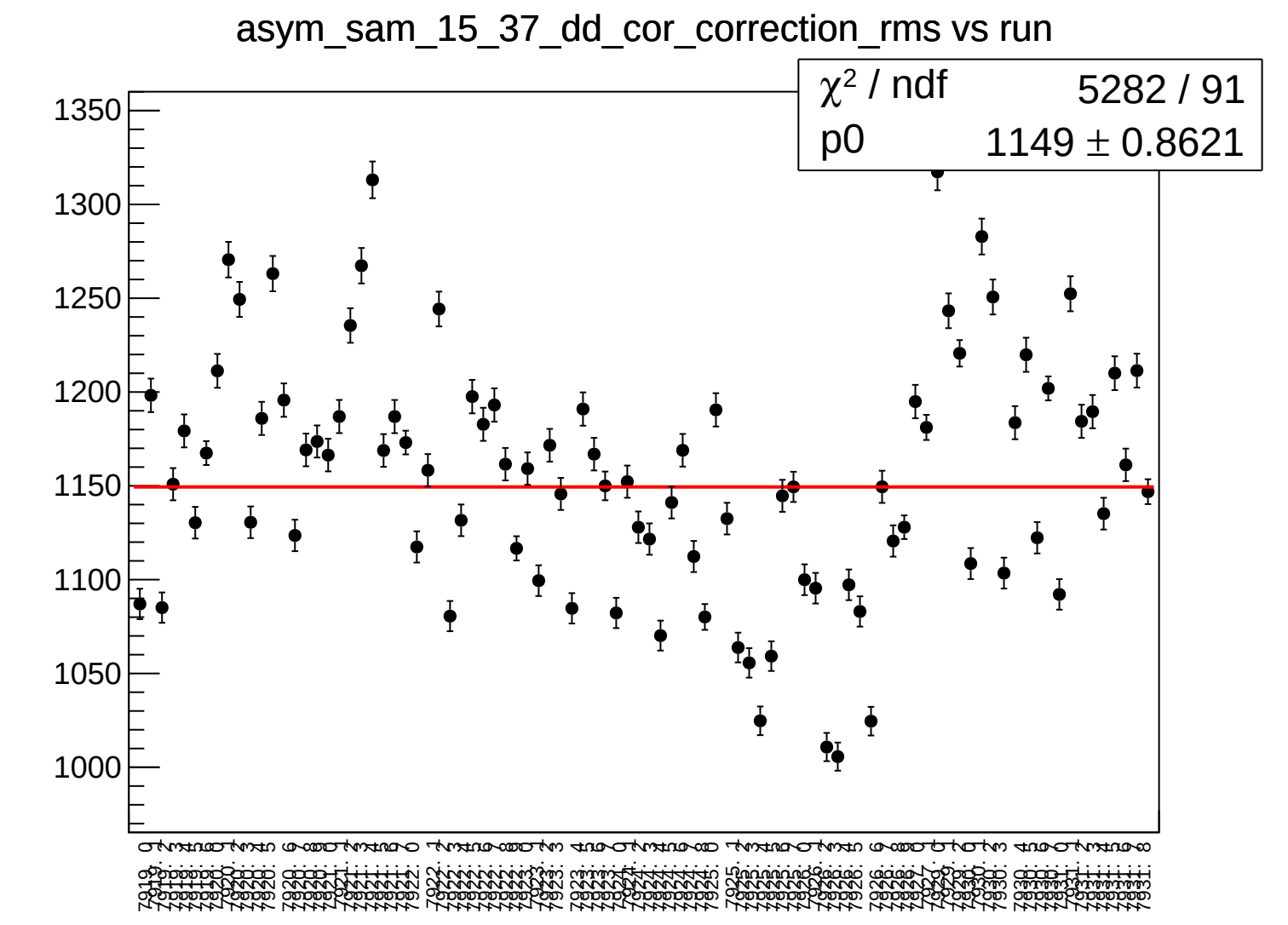

asym_sam_15_37_dd_reg_correction_rms vs run
χ² / ndf 5282 / 91
p0 1149 ± 0.8621
1350
1300
1250
1200
1150
1100
1050
1000

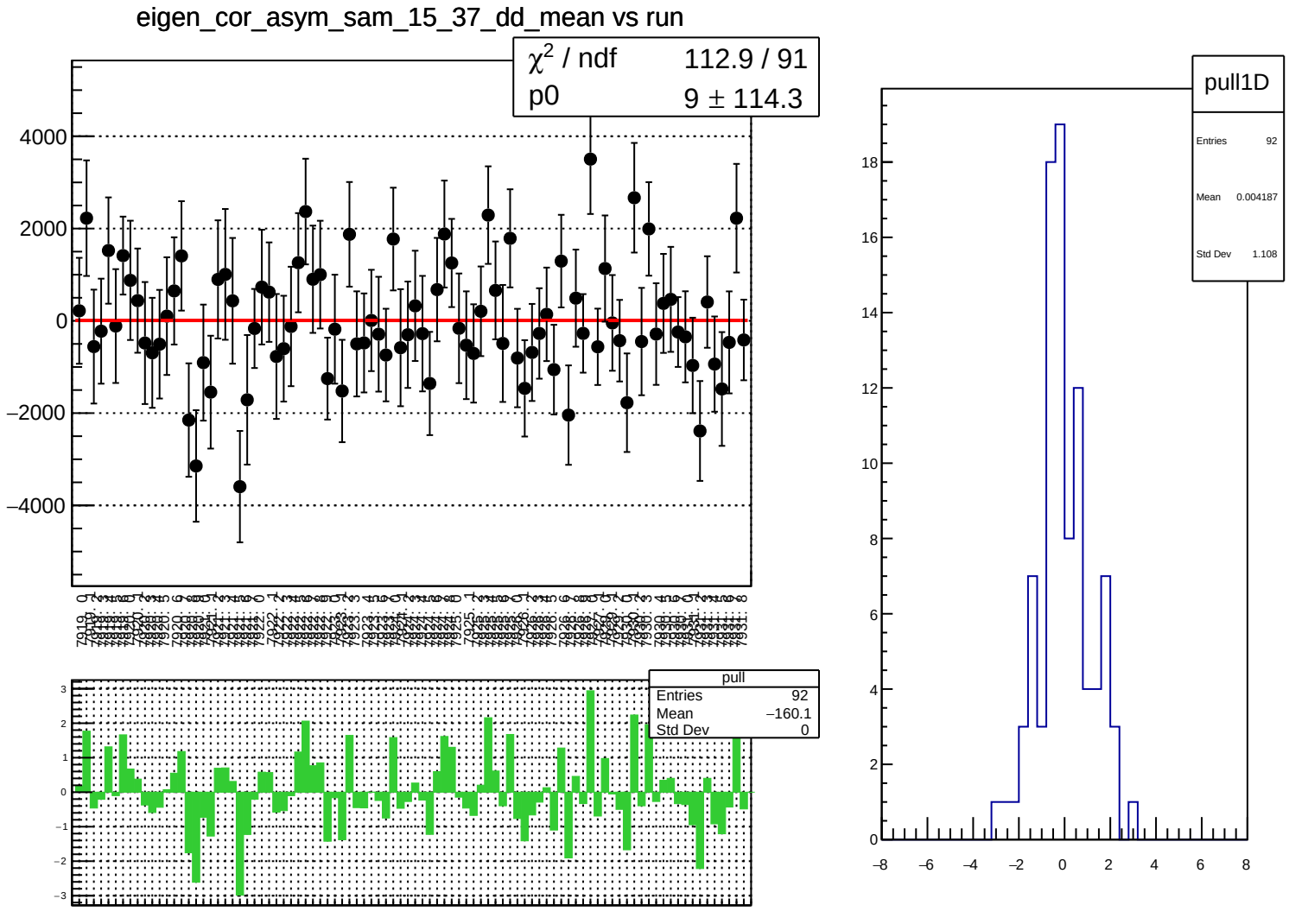

cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 112.9 / 91
p0 9 ± 114.3
4000
2000
0
−2000
−4000
pull
Entries 92
Mean −160.1
Std Dev 0
3
2
1
0
−1
−2
−3

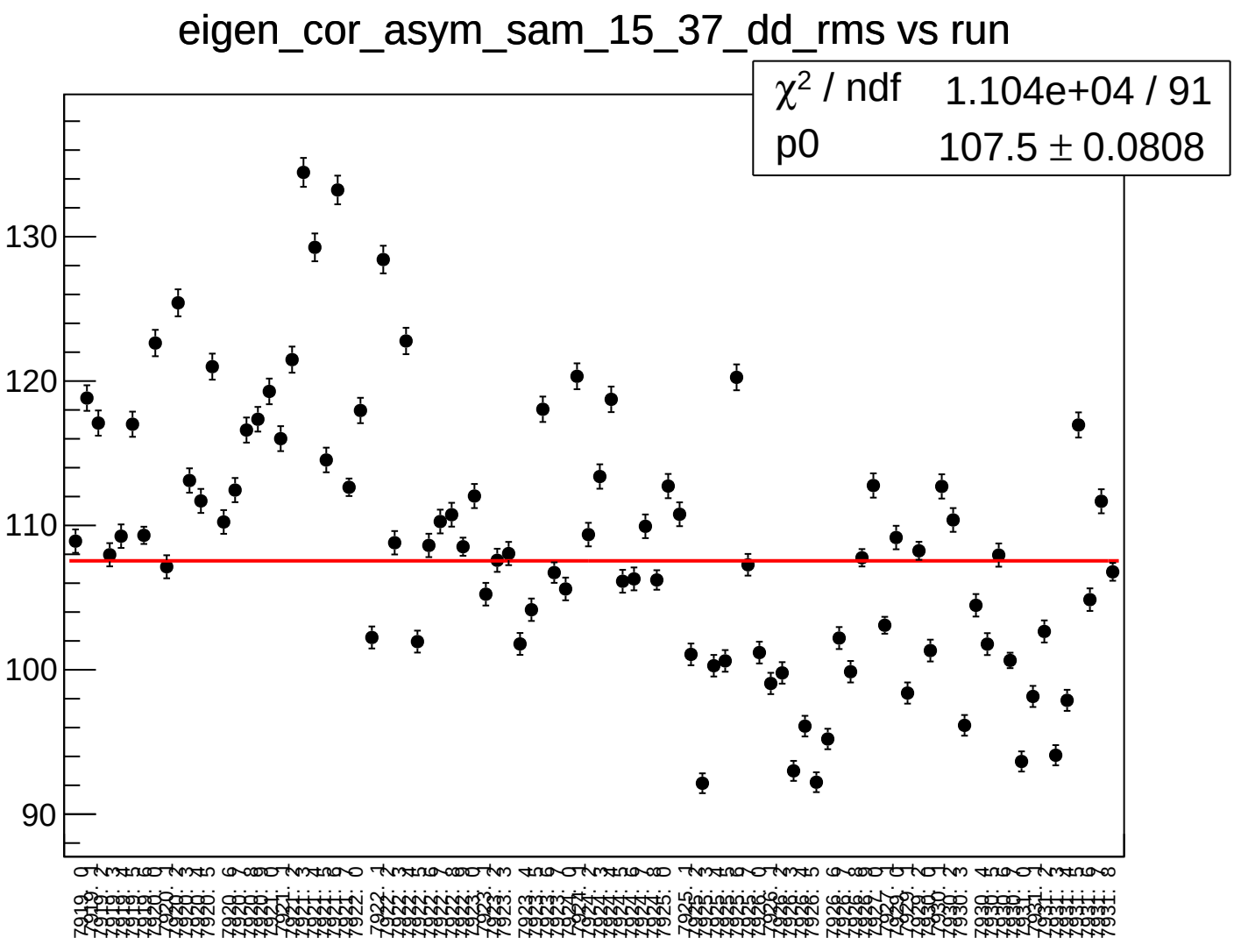

pull1D
Entries 92
Mean 0.004187
Std Dev 1.108
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

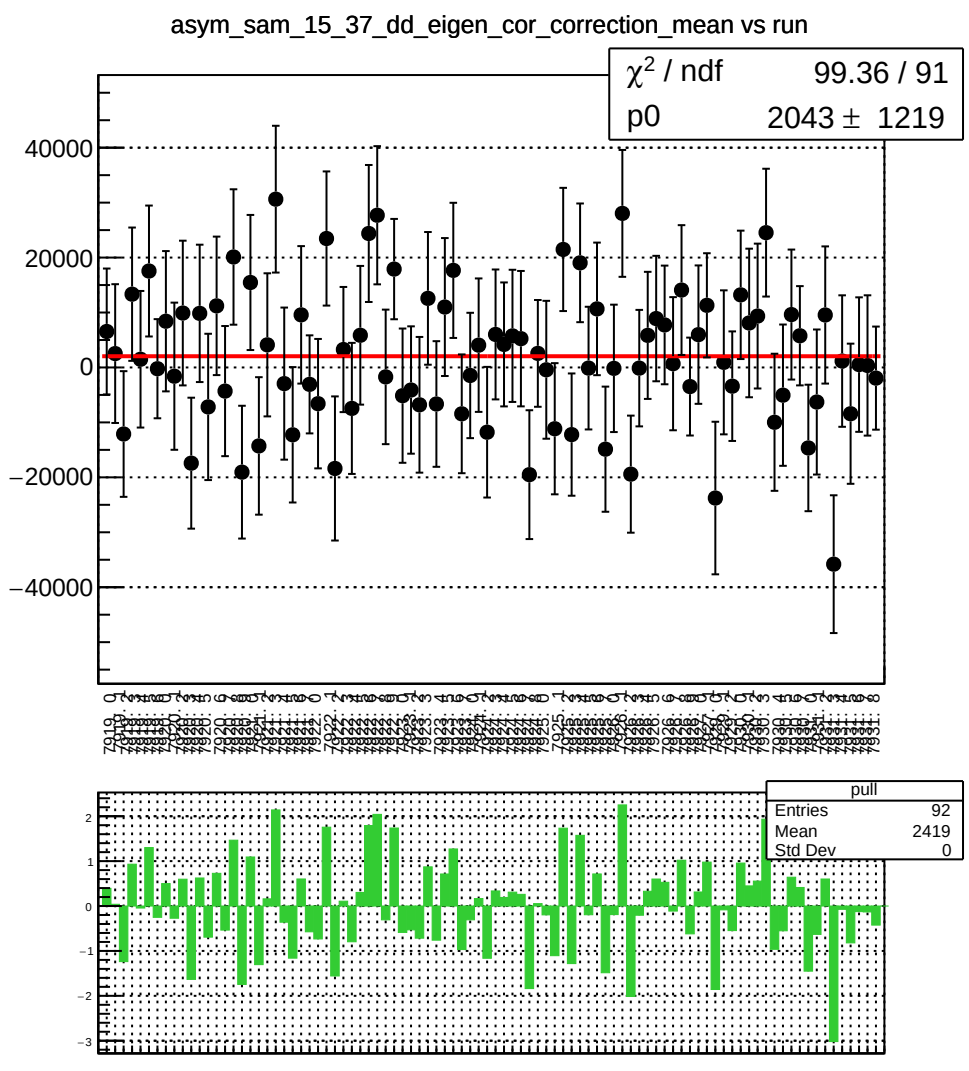

cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 1.104e+04 / 91
p0 107.5 ± 0.0808
130
120
110
100
90

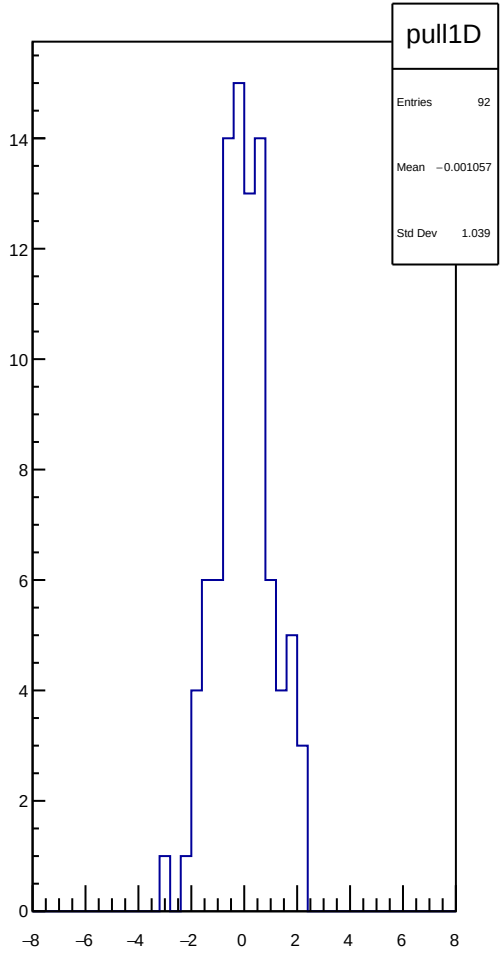

asym_sam_15_37_dd_cor_correction_mean vs run
χ² / ndf 99.36 / 91
p0 2043 ± 1219
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 2419
Std Dev 0
pull1D
Entries 92
Mean −0.001057
Std Dev 1.039

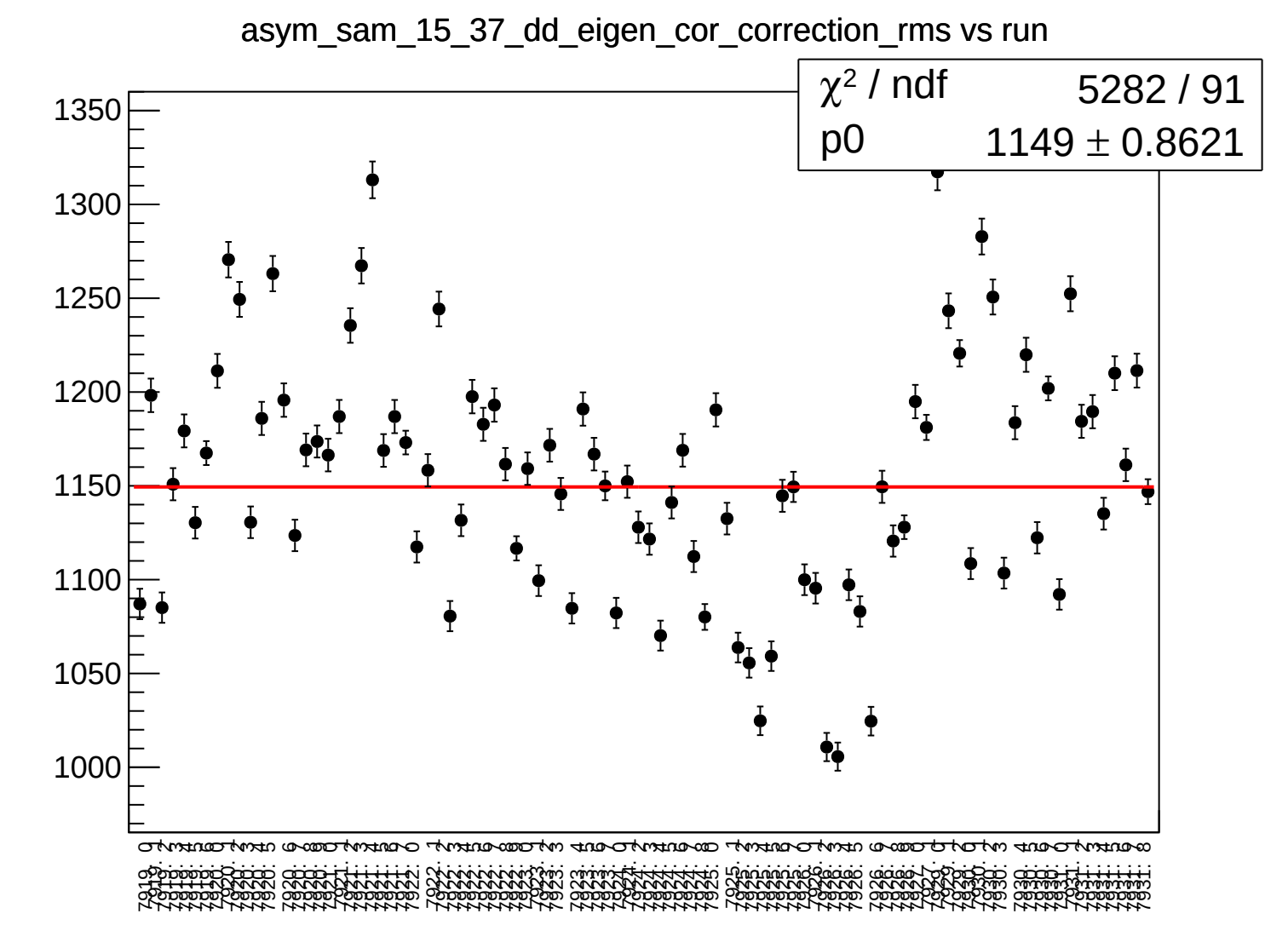

asym_sam_15_37_dd_cor_correction_rms vs run
χ² / ndf 5282 / 91
p0 1149 ± 0.8621
1350
1300
1250
1200
1150
1100
1050
1000

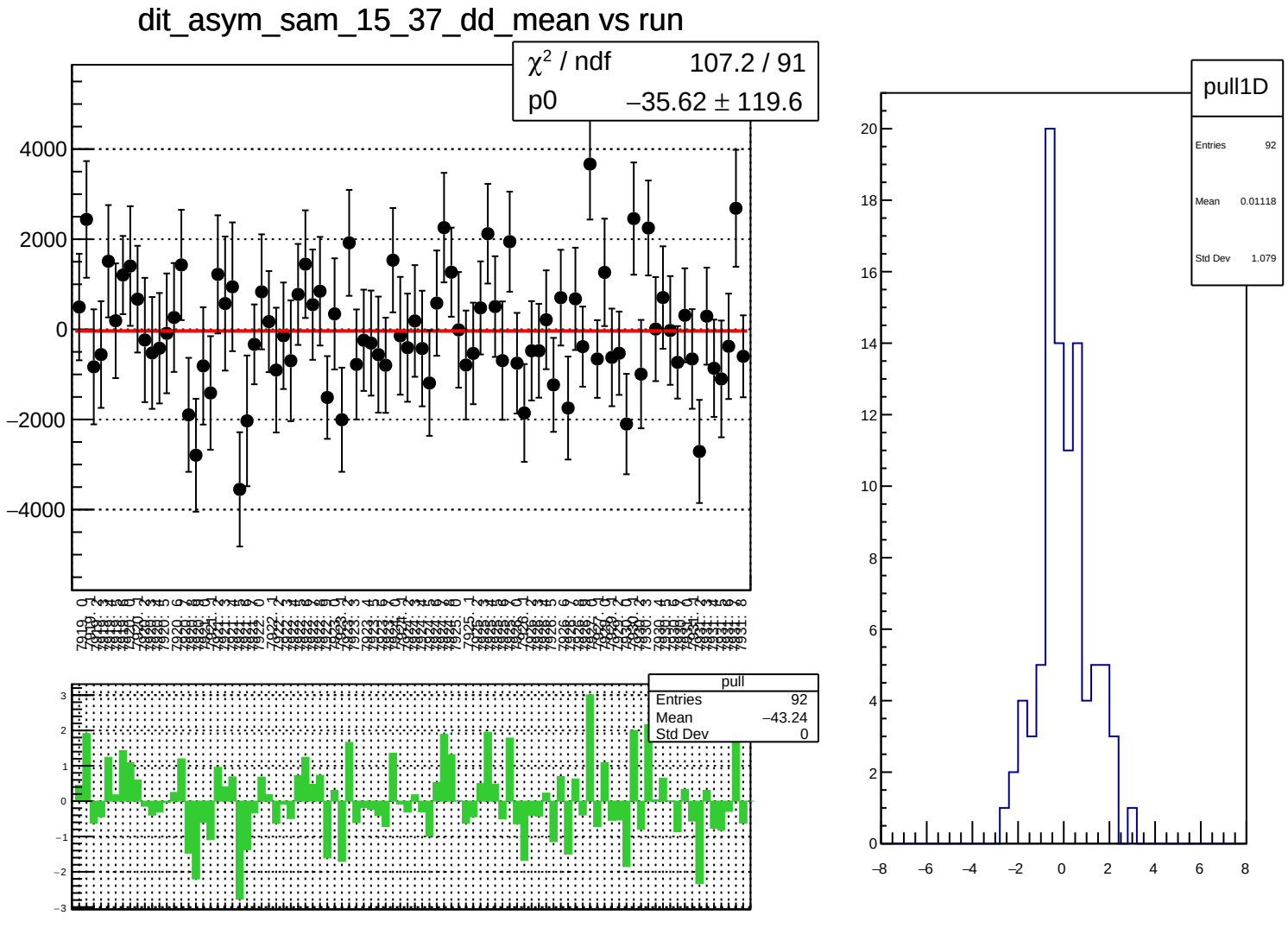

eigen_cor_asym_sam_15_37_dd_mean vs run
χ^2 / ndf 112.9 / 91
p0 9 ± 114.3
4000
2000
0
−2000
−4000
pull
Entries 92
Mean −160.1
Std Dev 0
pull1D
Entries 92
Mean 0.004187
Std Dev 1.108

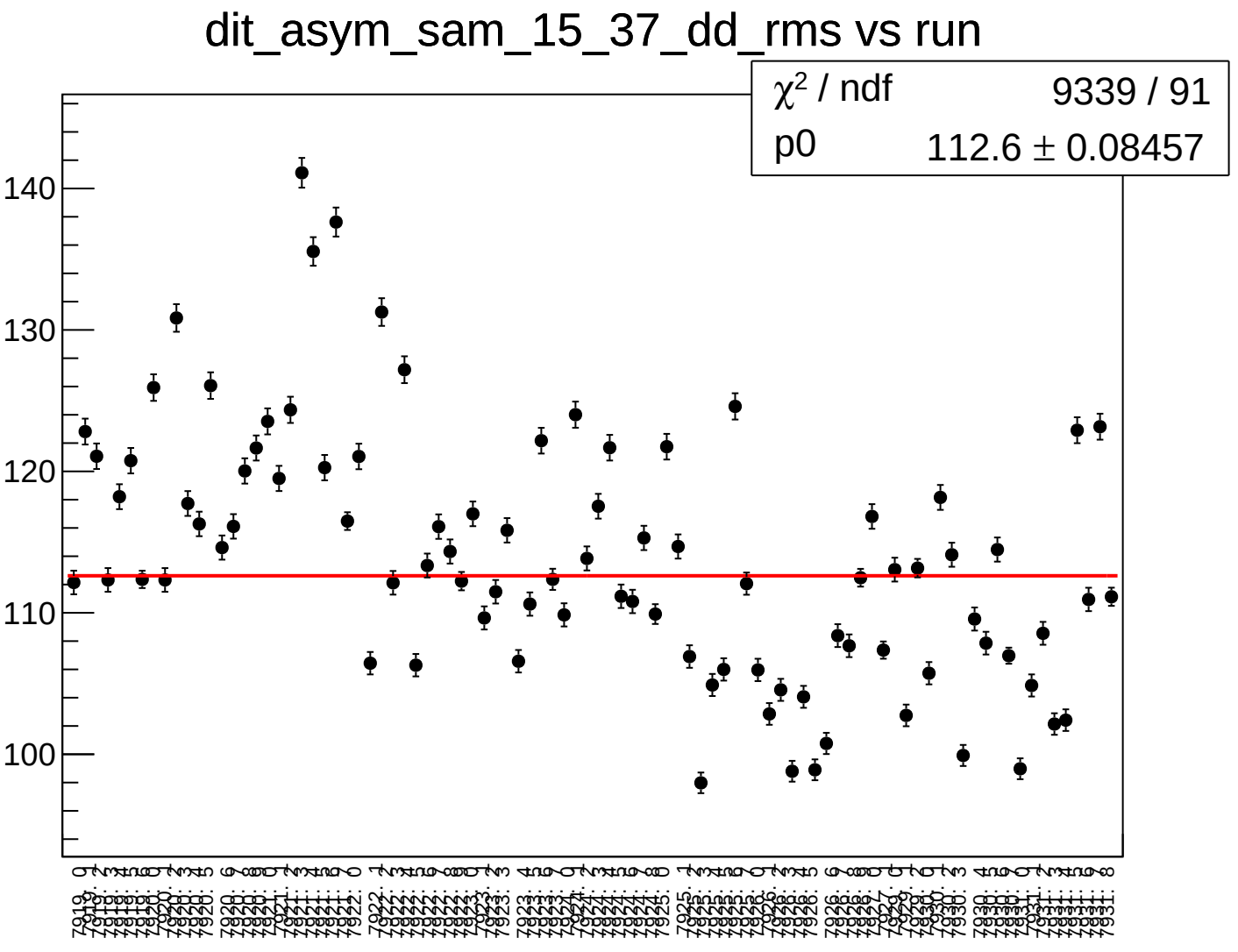

eigen_cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 1.104e+04 / 91
p0 107.5 ± 0.0808
130
120
110
100
90

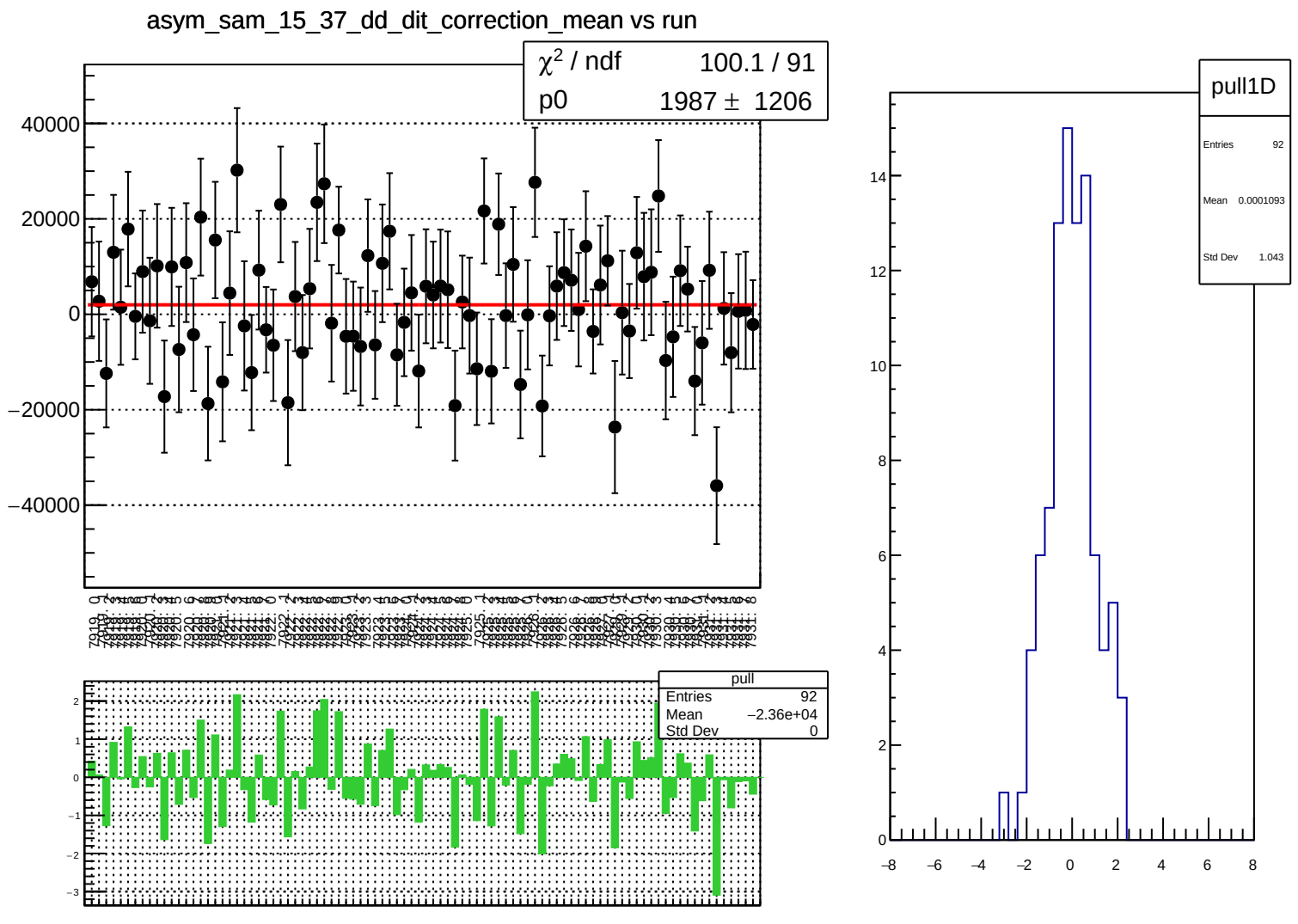

asym_sam_15_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 99.36 / 91
p0 2043 ± 1219
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 2419
Std Dev 0
2
1
0
−1
−2
−3

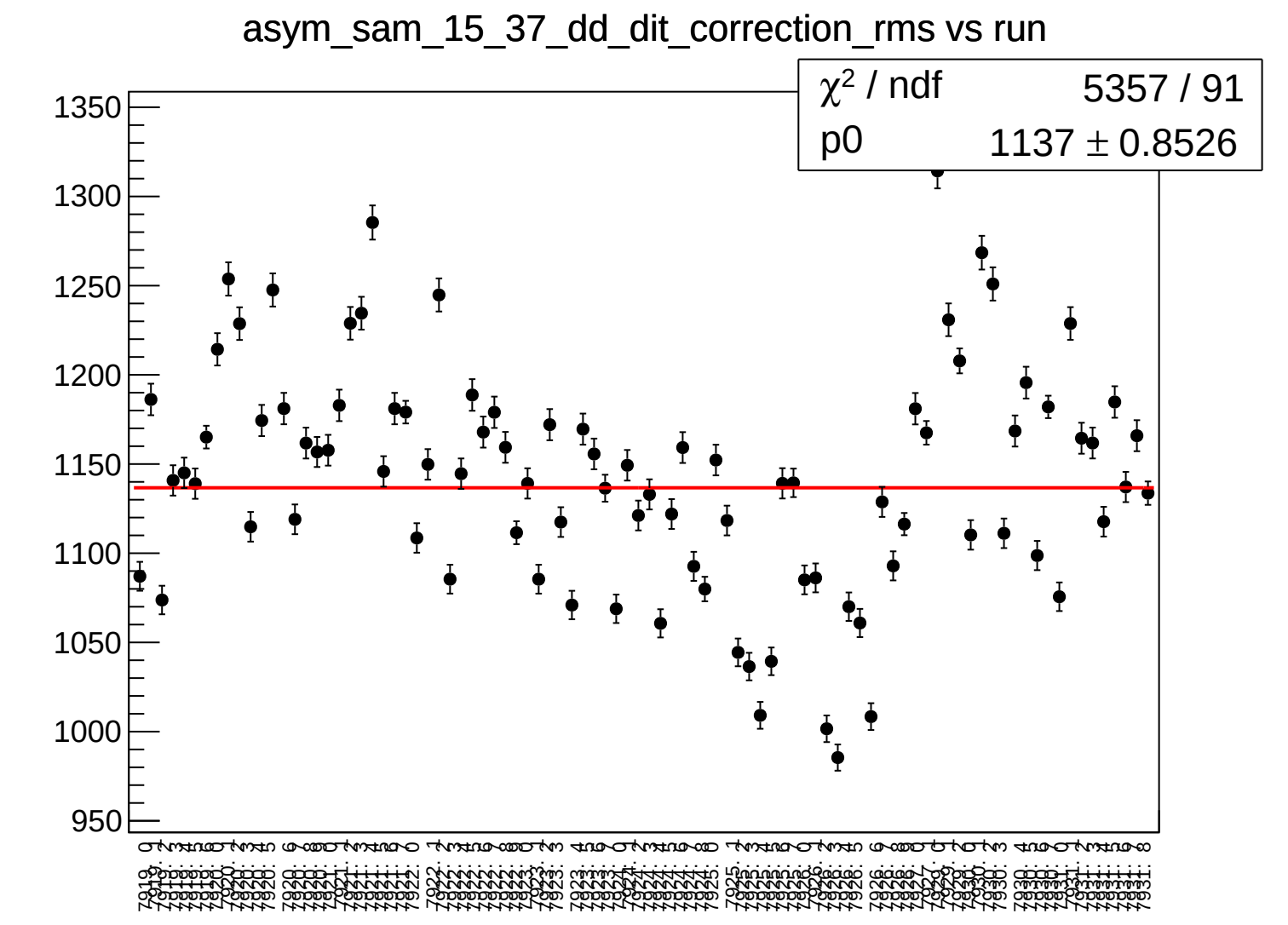

pull1D
Entries 92
Mean −0.001057
Std Dev 1.039
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

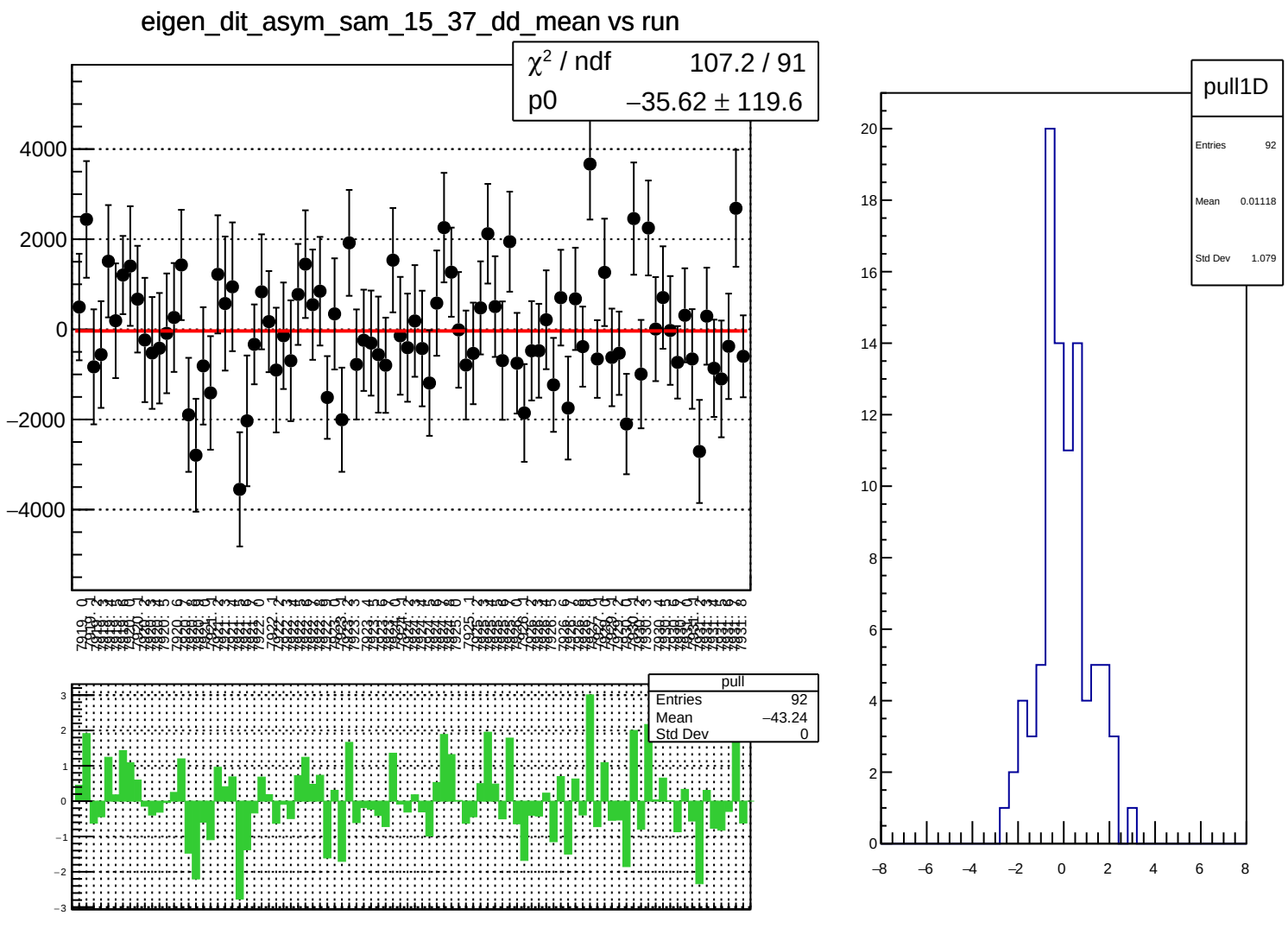

asym_sam_15_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 5282 / 91
p0 1149 ± 0.8621
1350
1300
1250
1200
1150
1100
1050
1000

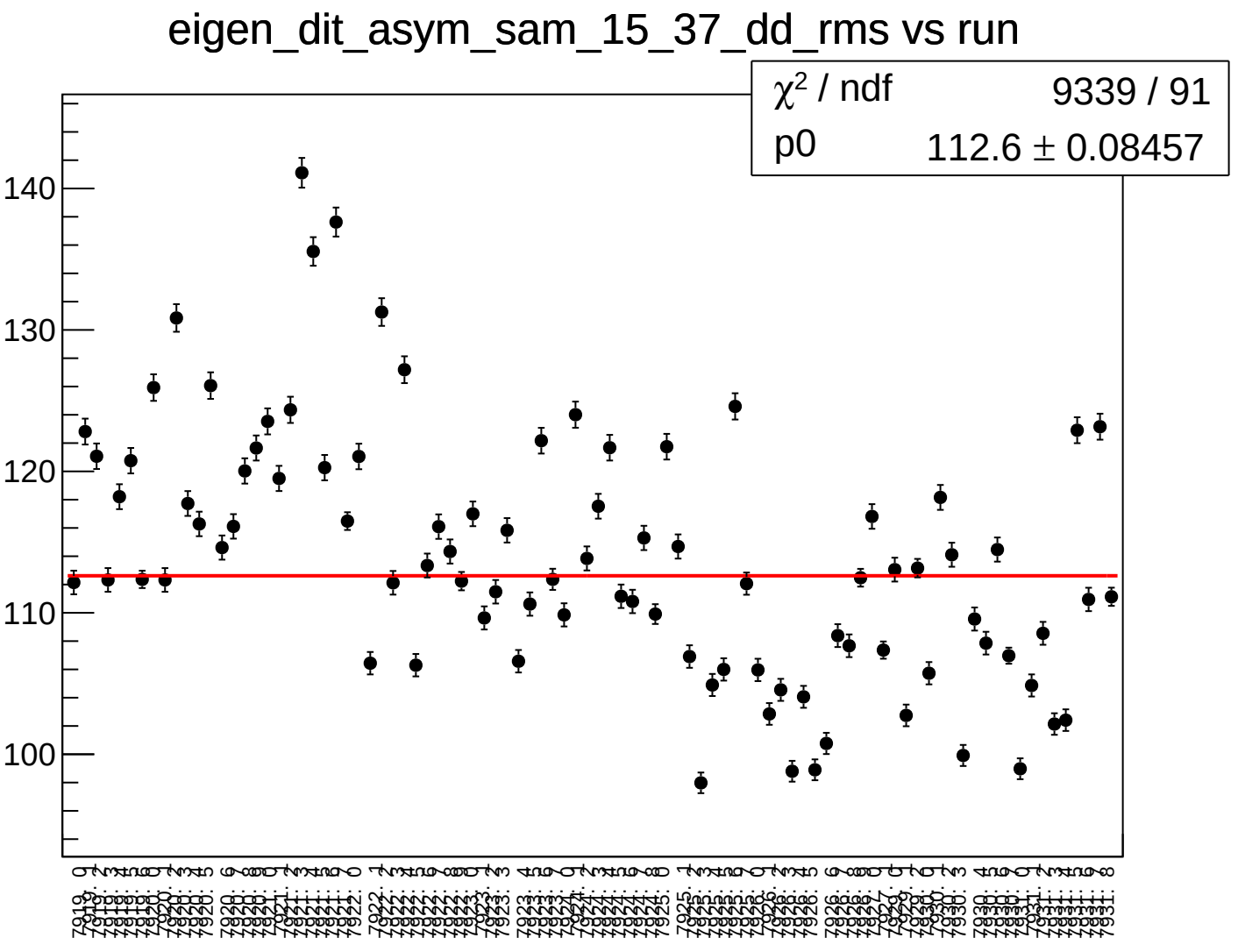

dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 107.2 / 91
p0 −35.62 ± 119.6
4000
2000
0
−2000
−4000
pull
Entries 92
Mean −43.24
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean 0.01118
Std Dev 1.079
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

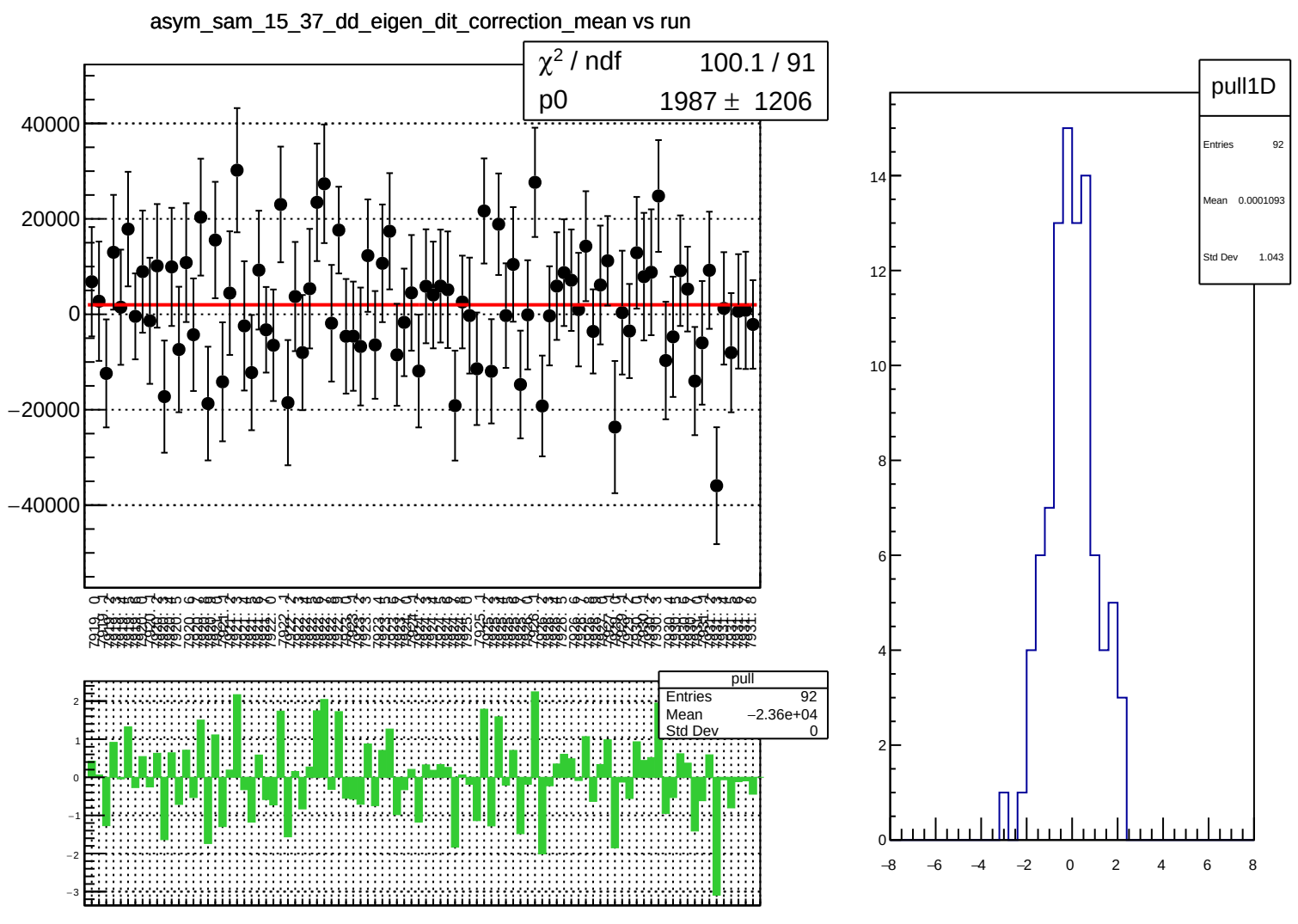

dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 9339 / 91
p0 112.6 ± 0.08457
140
130
120
110
100

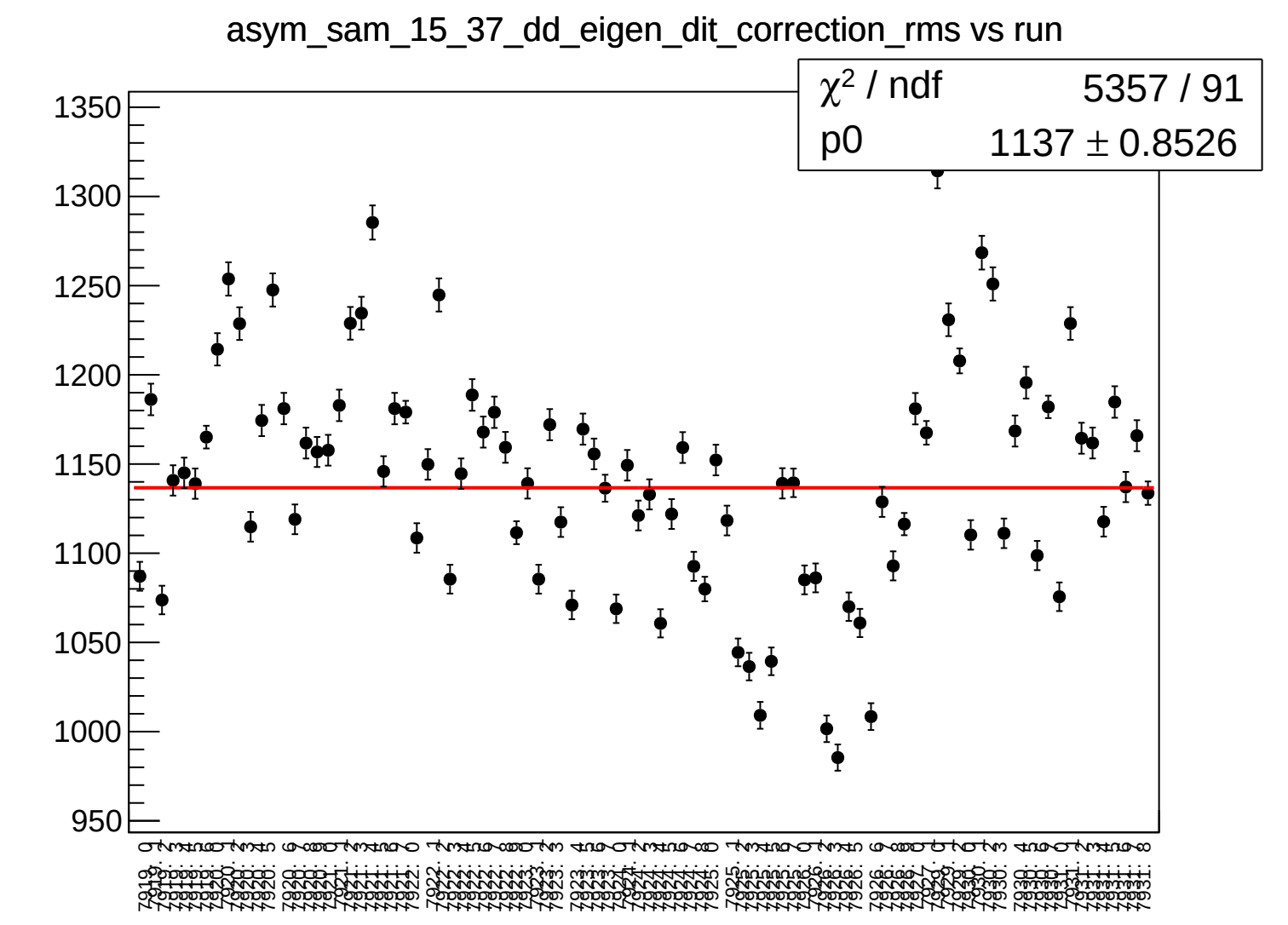

asym_sam_15_37_dd_dit_correction_mean vs run
χ² / ndf 100.1 / 91
p0 1987 ± 1206
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −2.36e+04
Std Dev 0
pull1D
Entries 92
Mean 0.0001093
Std Dev 1.043

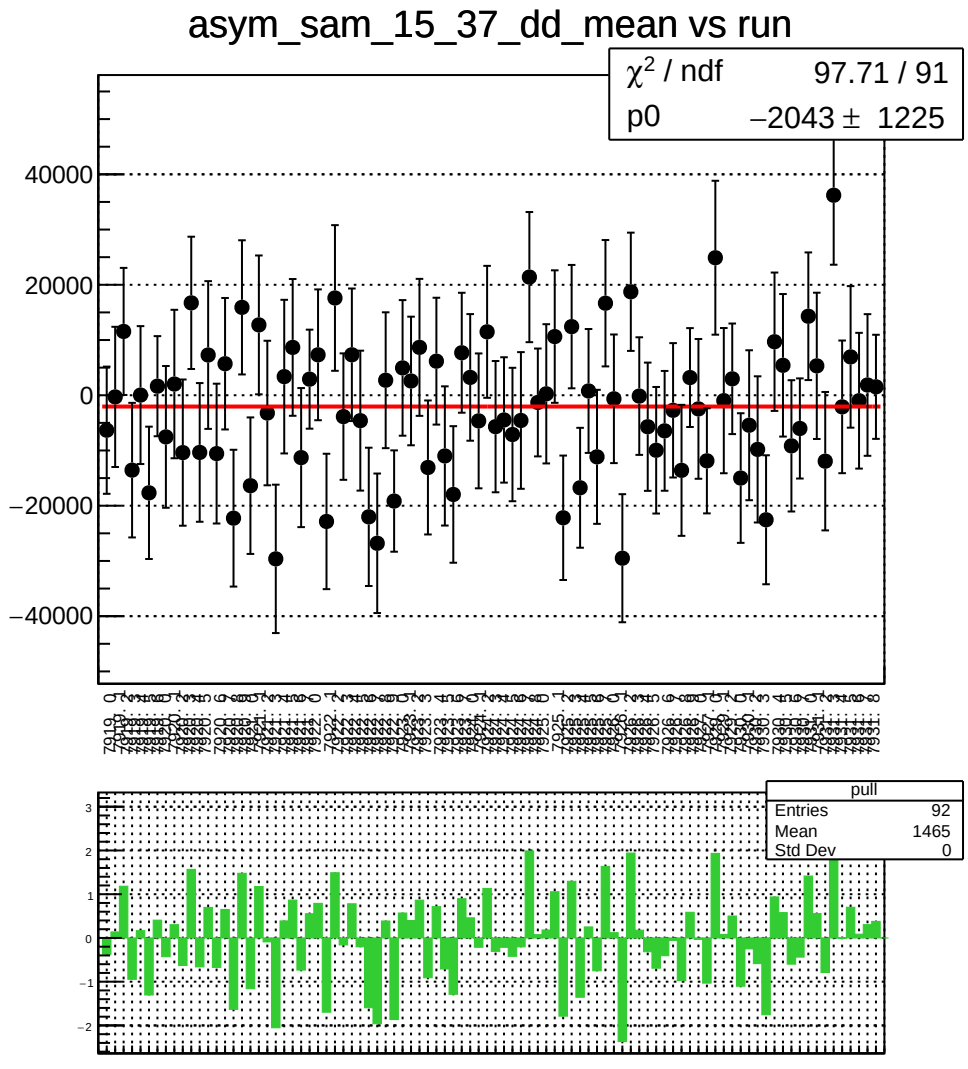

asym_sam_15_37_dd_dit_correction_rms vs run
χ² / ndf 5357 / 91
p0 1137 ± 0.8526
1350
1300
1250
1200
1150
1100
1050
1000
950

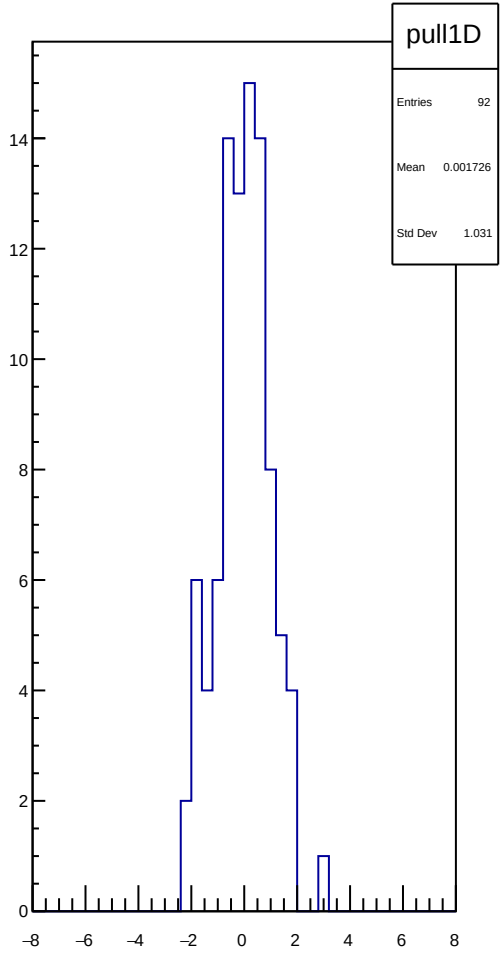

eigen_dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 107.2 / 91
p0 −35.62 ± 119.6
4000
2000
0
−2000
−4000
pull
Entries 92
Mean −43.24
Std Dev 0
pull1D
Entries 92
Mean 0.01118
Std Dev 1.079

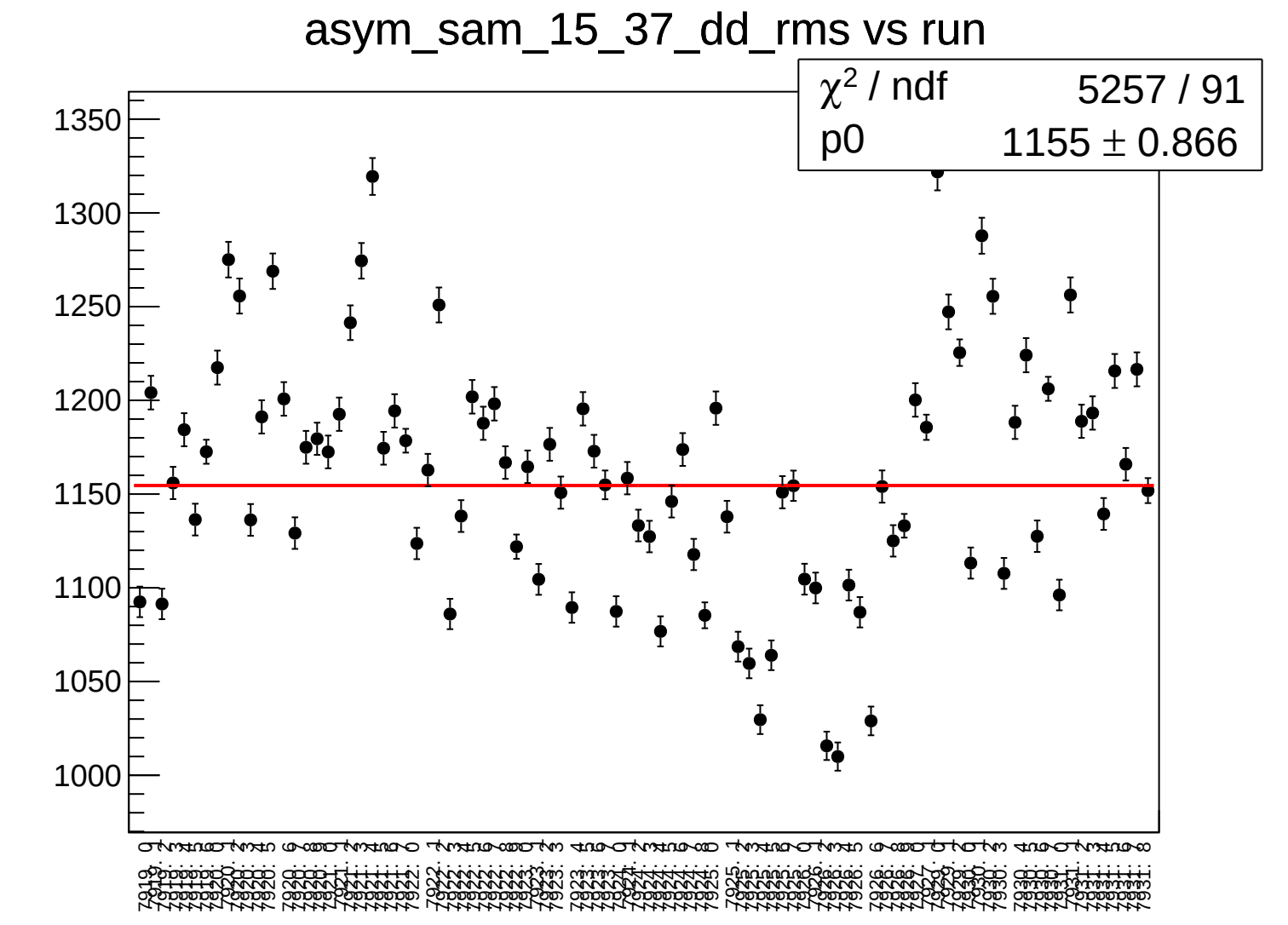

eigen_dit_asym_sam_15_37_dd_rms vs run
χ^2 / ndf 9339 / 91
p0 112.6 ± 0.08457
140
130
120
110
100

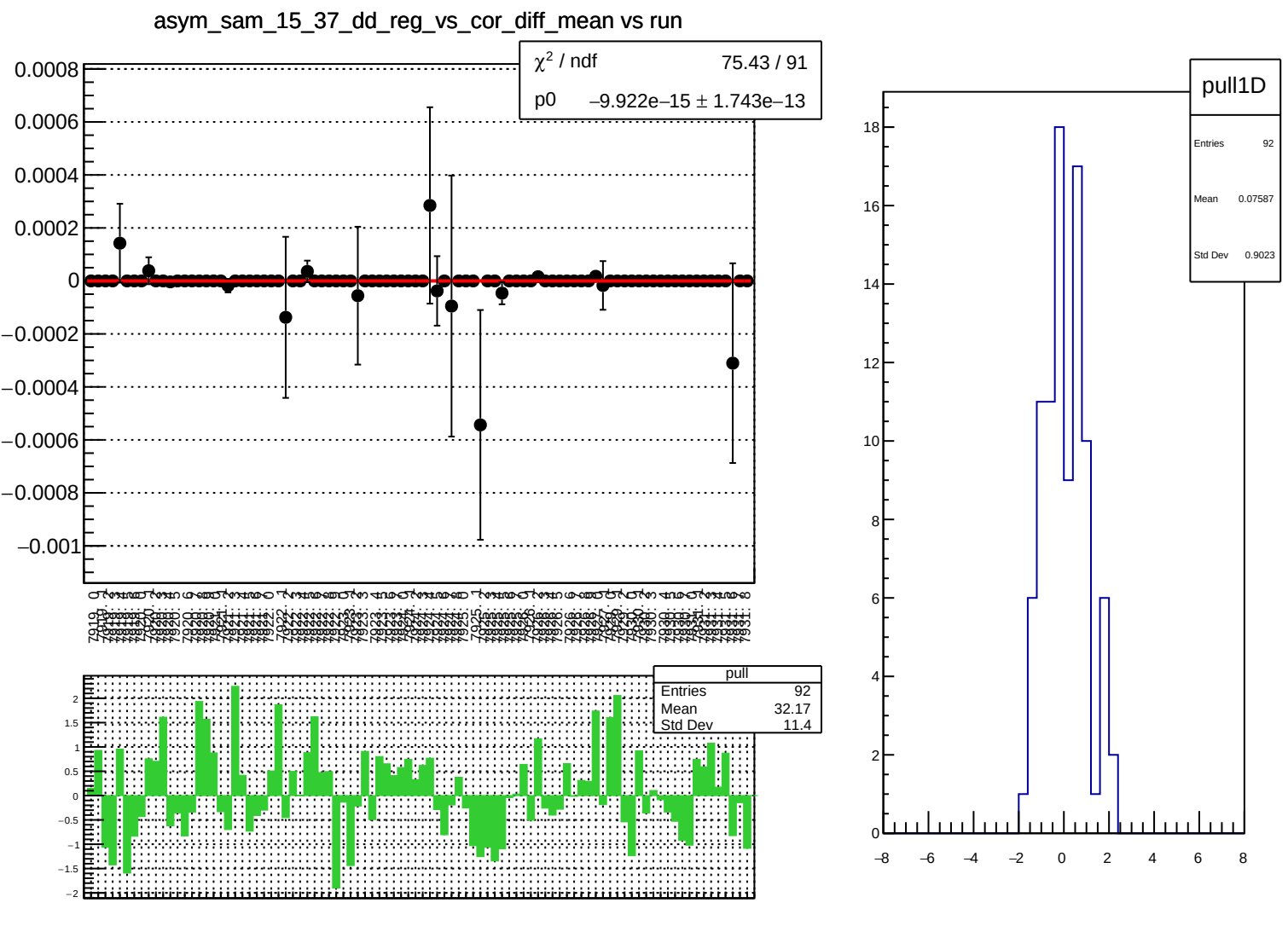

asym_sam_15_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 100.1 / 91
p0 1987 ± 1206
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −2.36e+04
Std Dev 0
pull1D
Entries 92
Mean 0.0001093
Std Dev 1.043

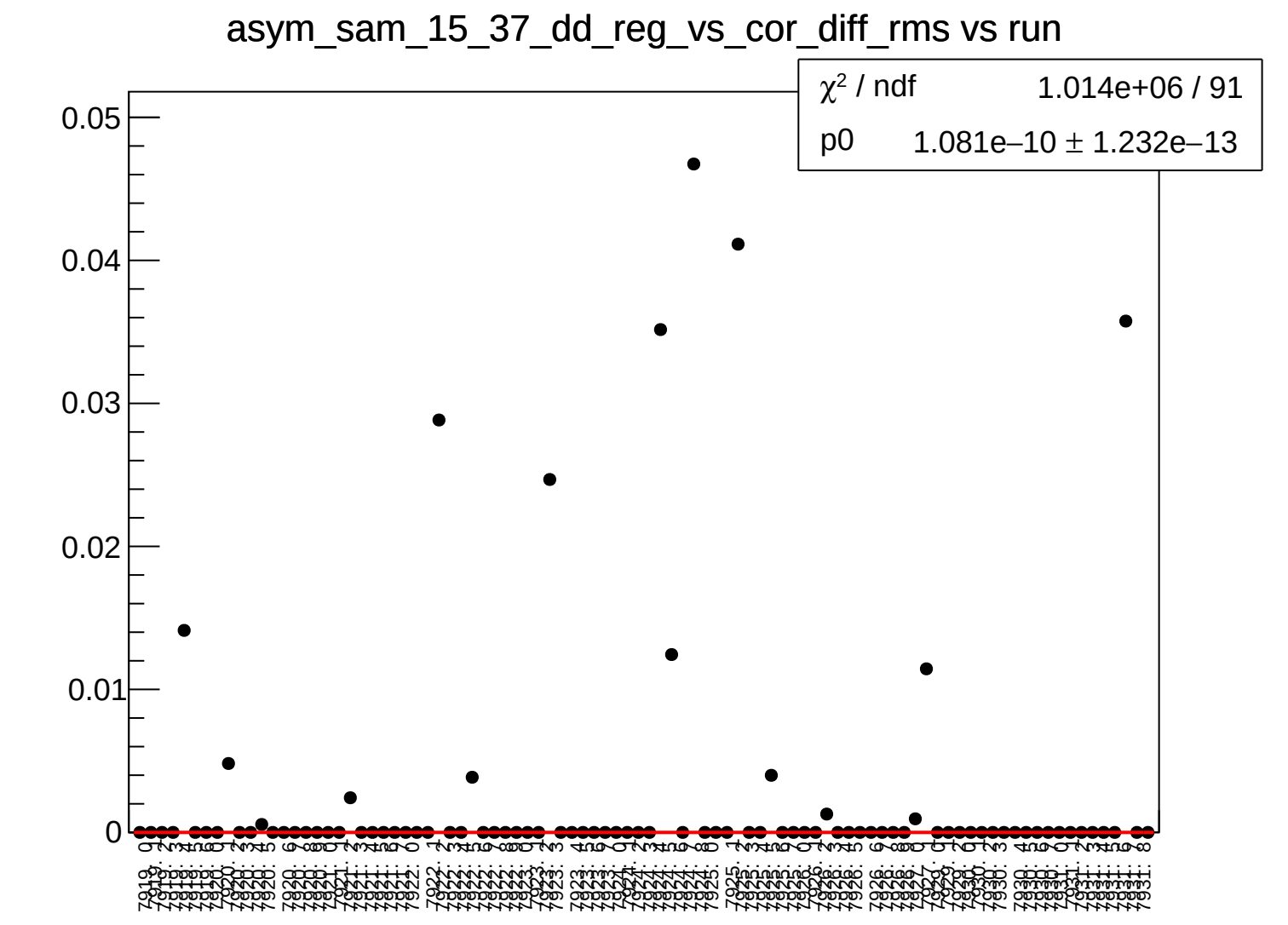

asym_sam_15_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 5357 / 91
p0 1137 ± 0.8526
1350
1300
1250
1200
1150
1100
1050
1000
950

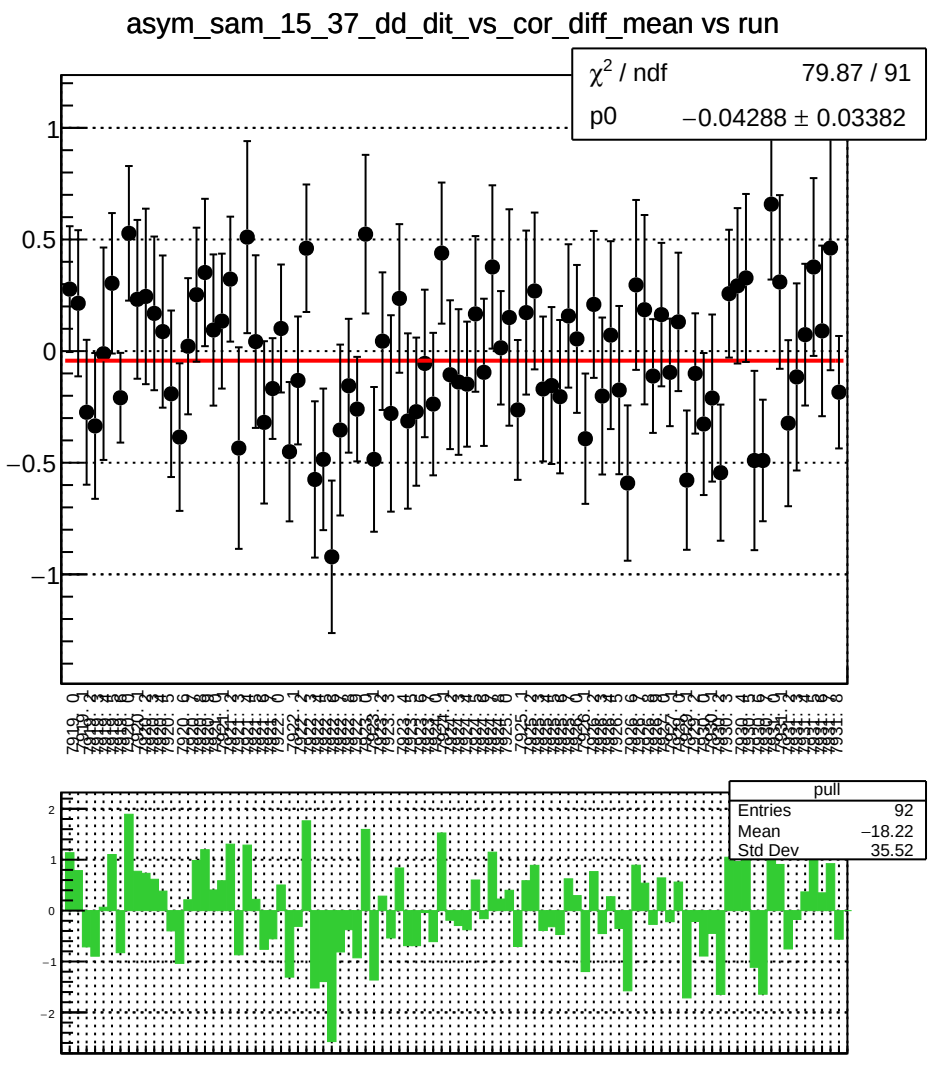

asym_sam_15_37_dd_mean vs run
χ² / ndf 97.71 / 91
p0 −2043 ± 1225
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 1465
Std Dev 0
3
2
1
0
−1
−2

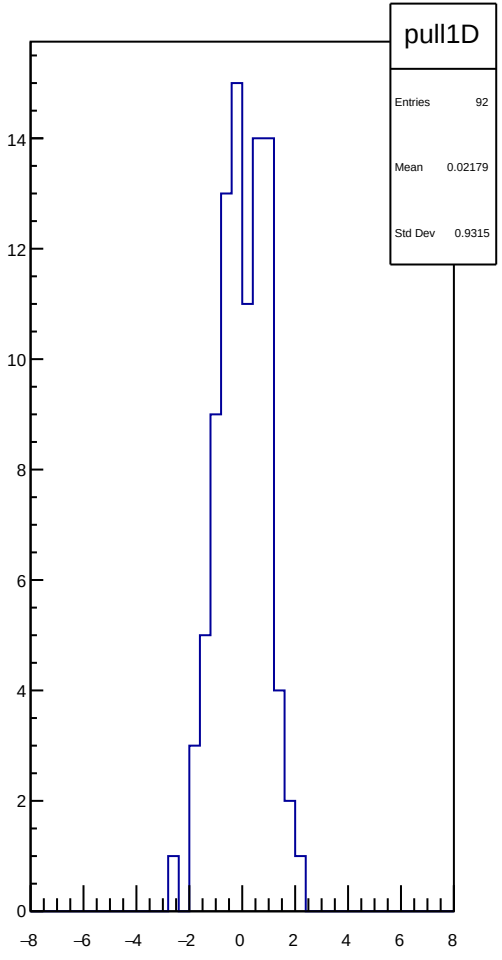

pull1D
Entries 92
Mean 0.001726
Std Dev 1.031
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

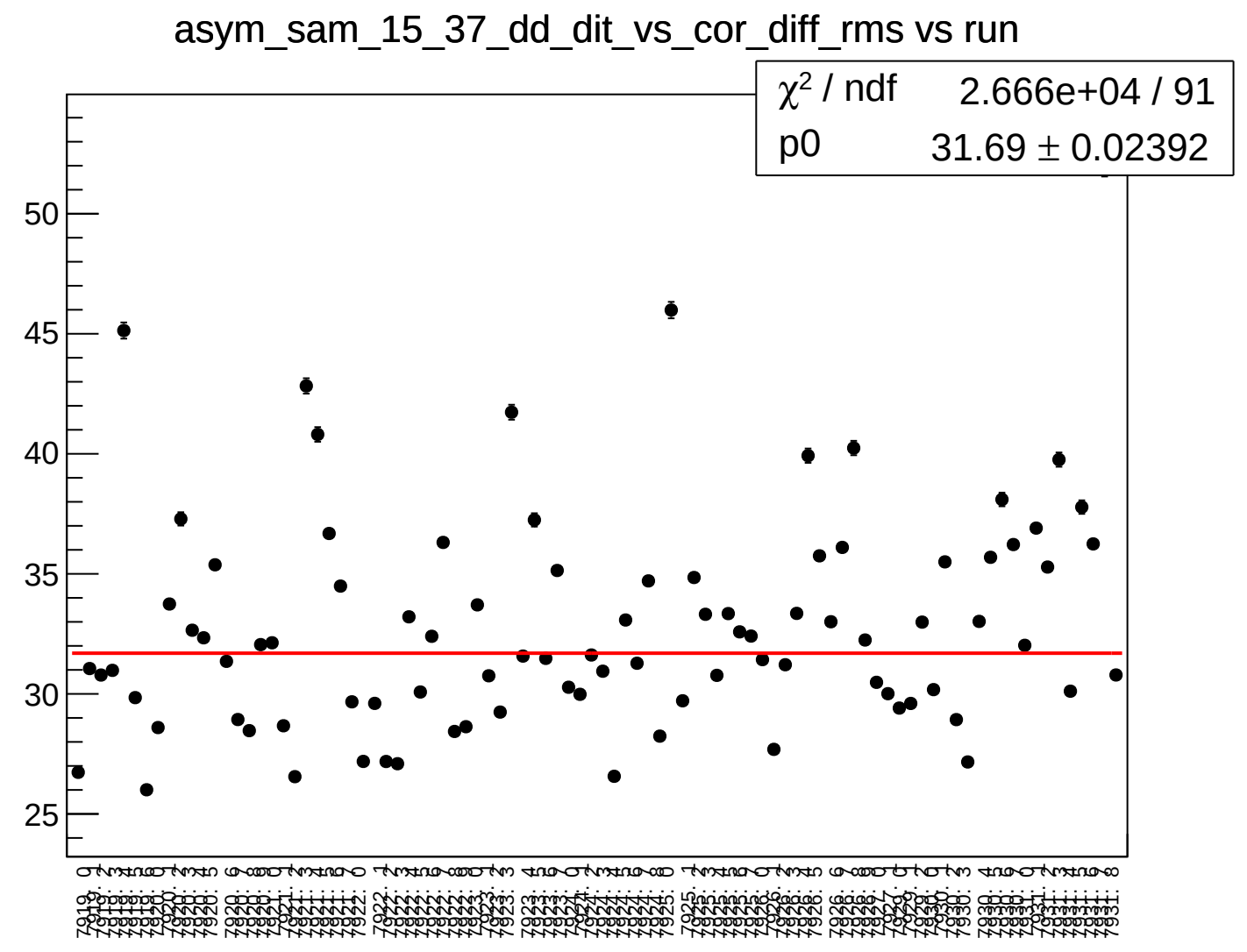

asym_sam_15_37_dd_rms vs run
χ^2 / ndf 5257 / 91
p0 1155 ± 0.866
1350
1300
1250
1200
1150
1100
1050
1000

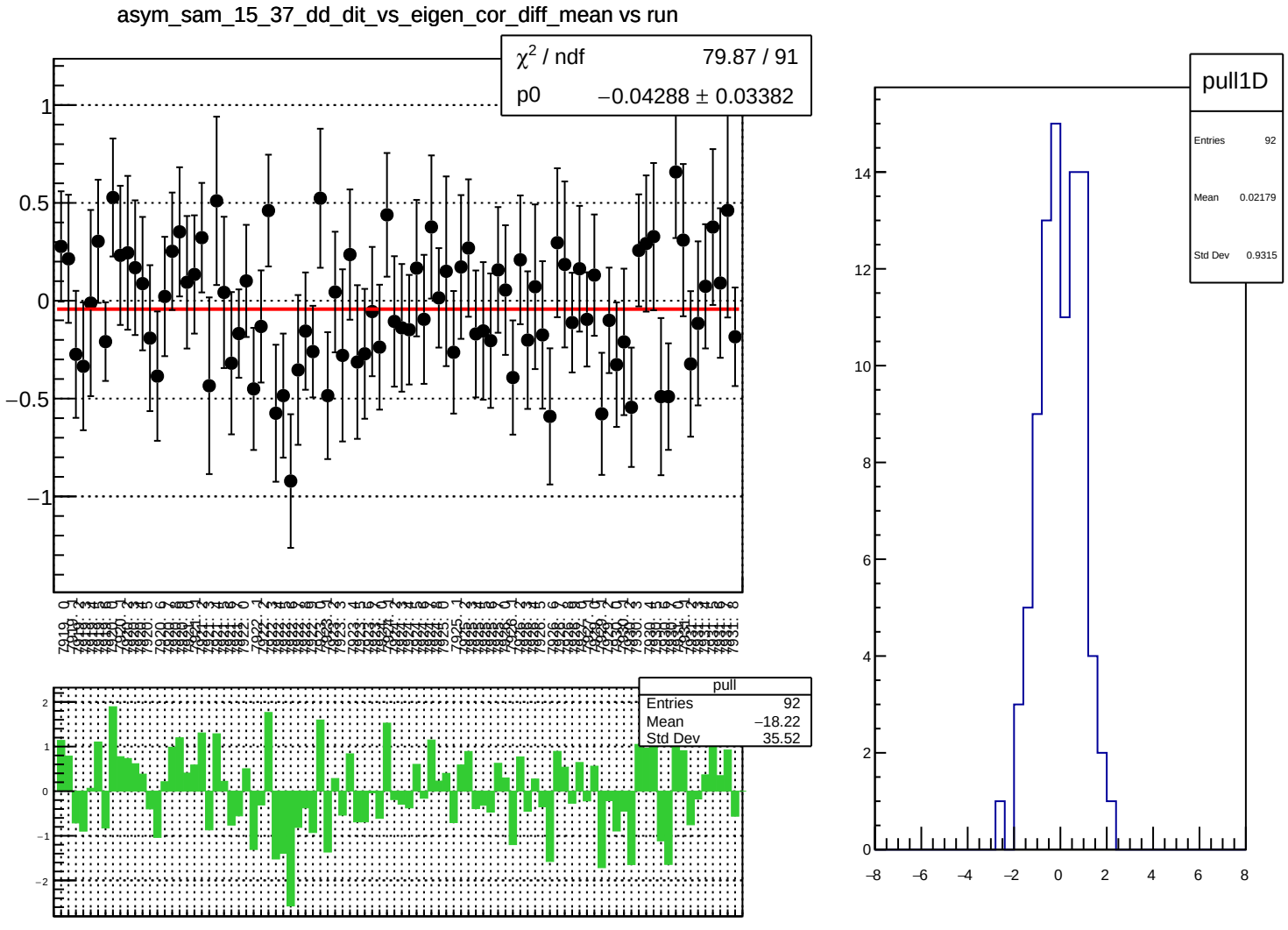

asym_sam_15_37_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 75.43 / 91
p0 −9.922e−15 ± 1.743e−13
pull
Entries 92
Mean 32.17
Std Dev 11.4
pull1D
Entries 92
Mean 0.07587
Std Dev 0.9023

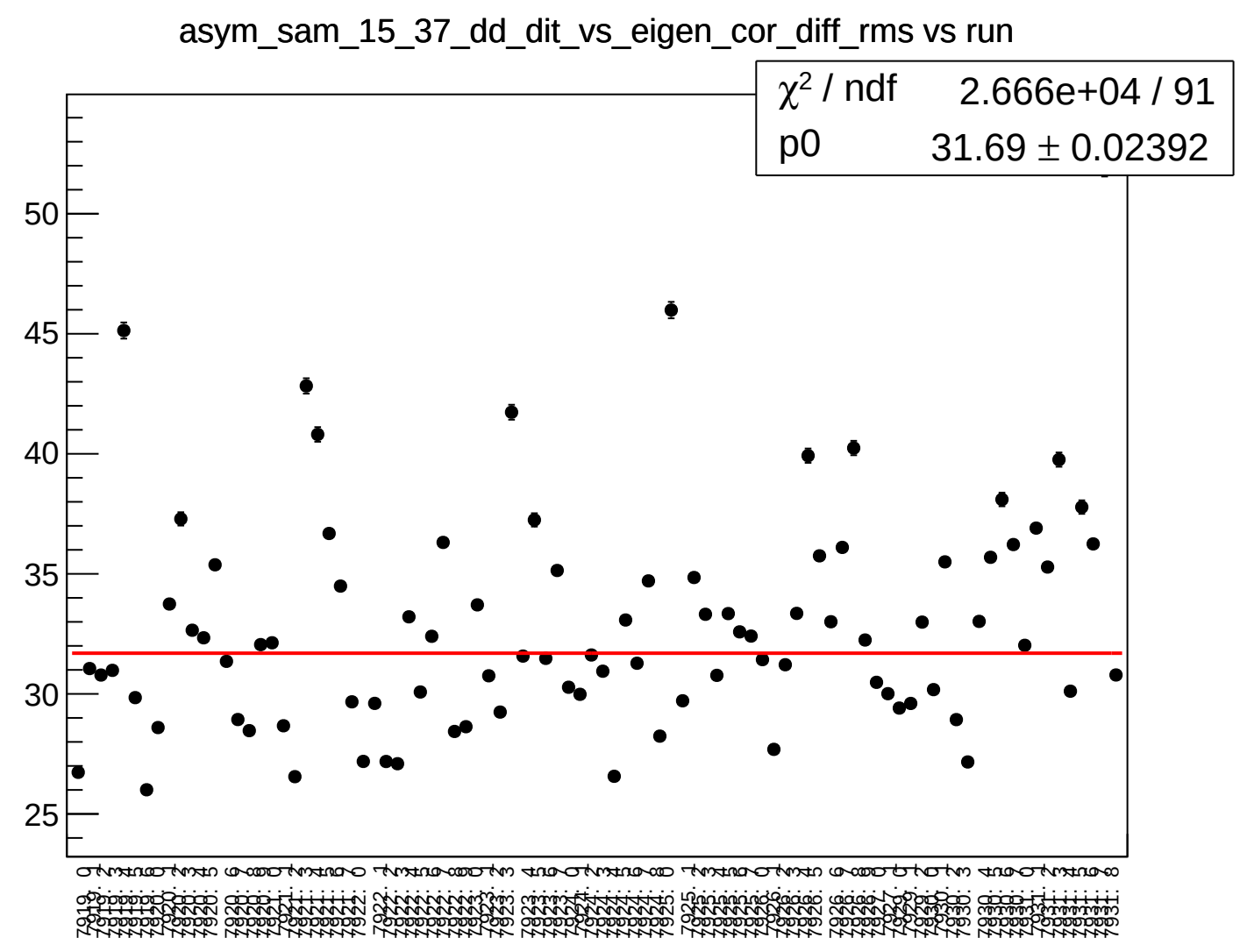

asym_sam_15_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.014e+06 / 91
p0 1.081e−10 ± 1.232e−13
0.05
0.04
0.03
0.02
0.01
0

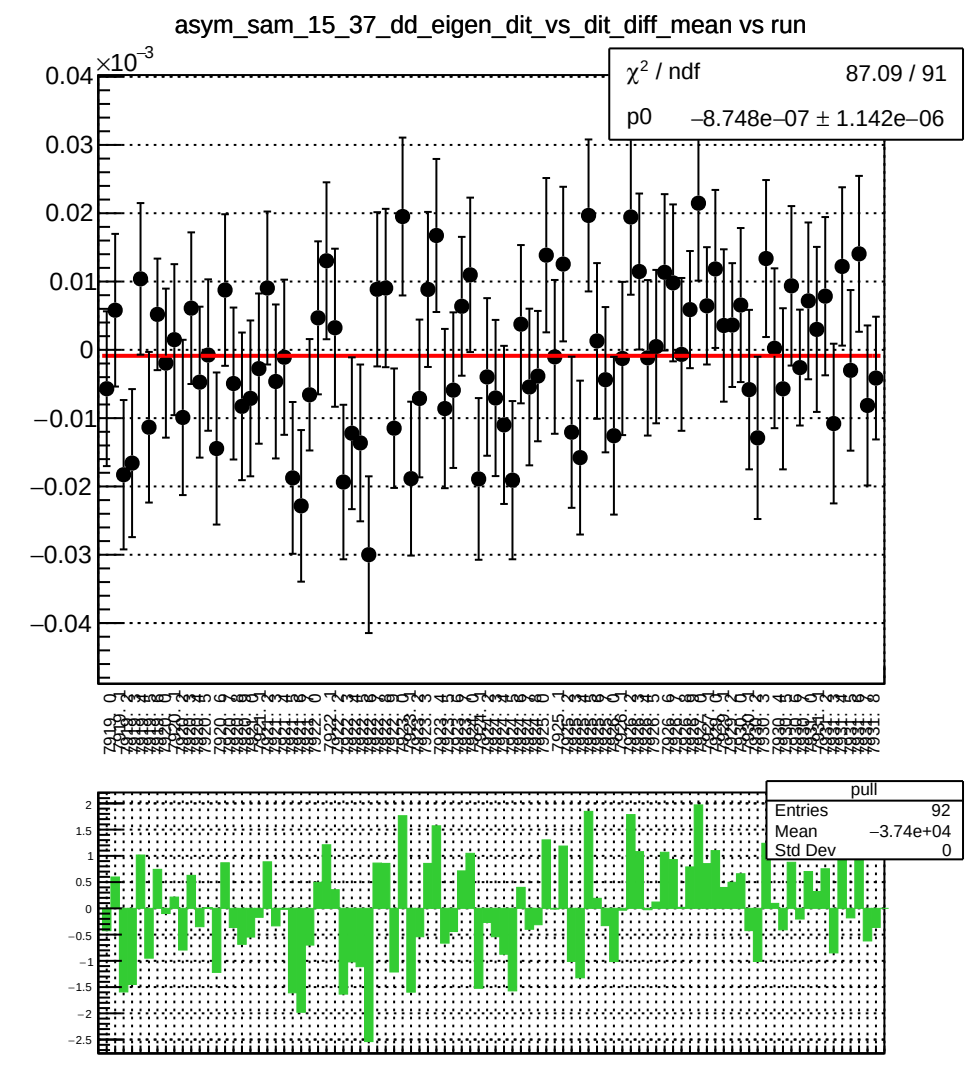

asym_sam_15_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 79.87 / 91
p0 −0.04288 ± 0.03382
pull
Entries 92
Mean −18.22
Std Dev 35.52

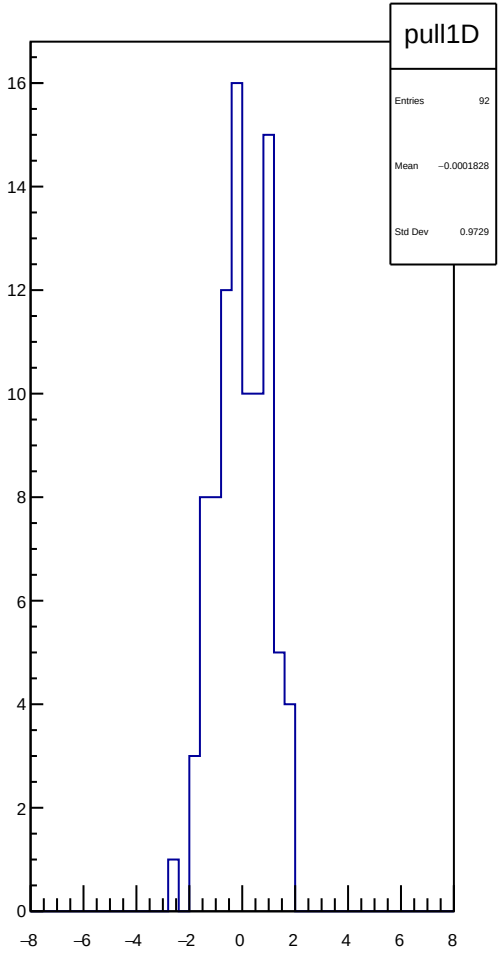

pull1D
Entries 92
Mean 0.02179
Std Dev 0.9315

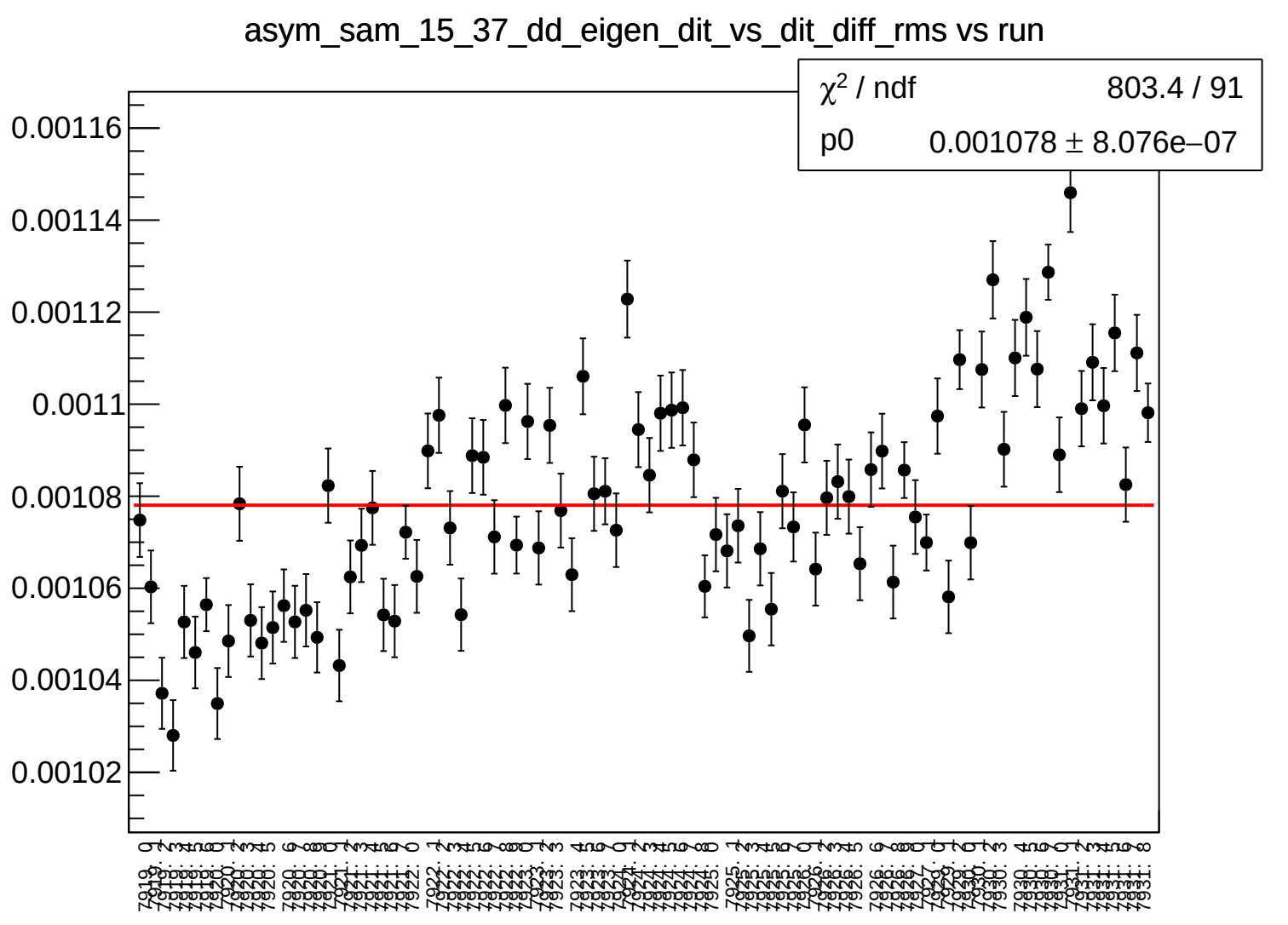

asym_sam_15_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.666e+04 / 91
p0 31.69 ± 0.02392
50
45
40
35
30
25

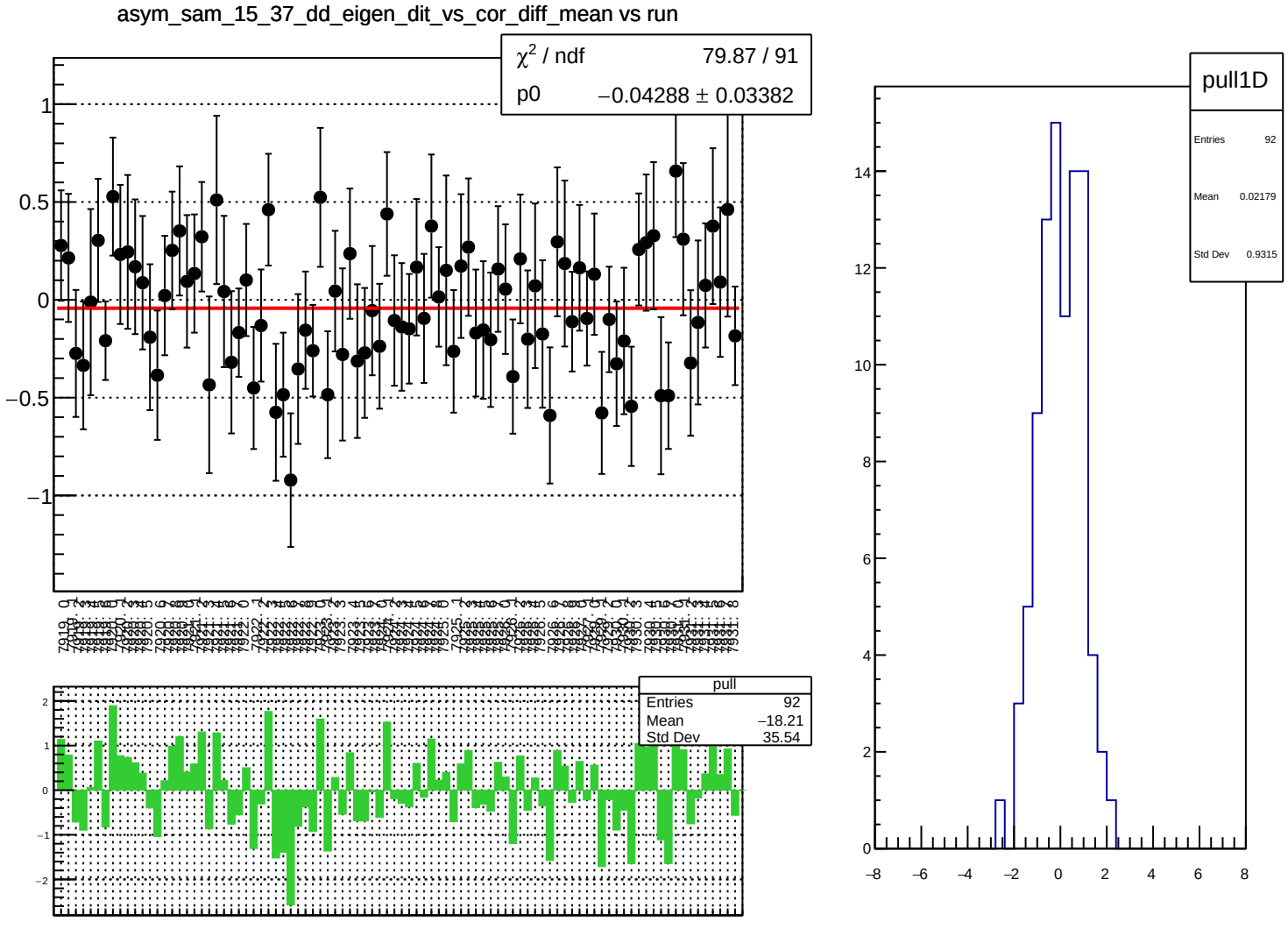

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.87 / 91
p0 −0.04288 ± 0.03382
pull
Entries 92
Mean −18.22
Std Dev 35.52
pull1D
Entries 92
Mean 0.02179
Std Dev 0.9315

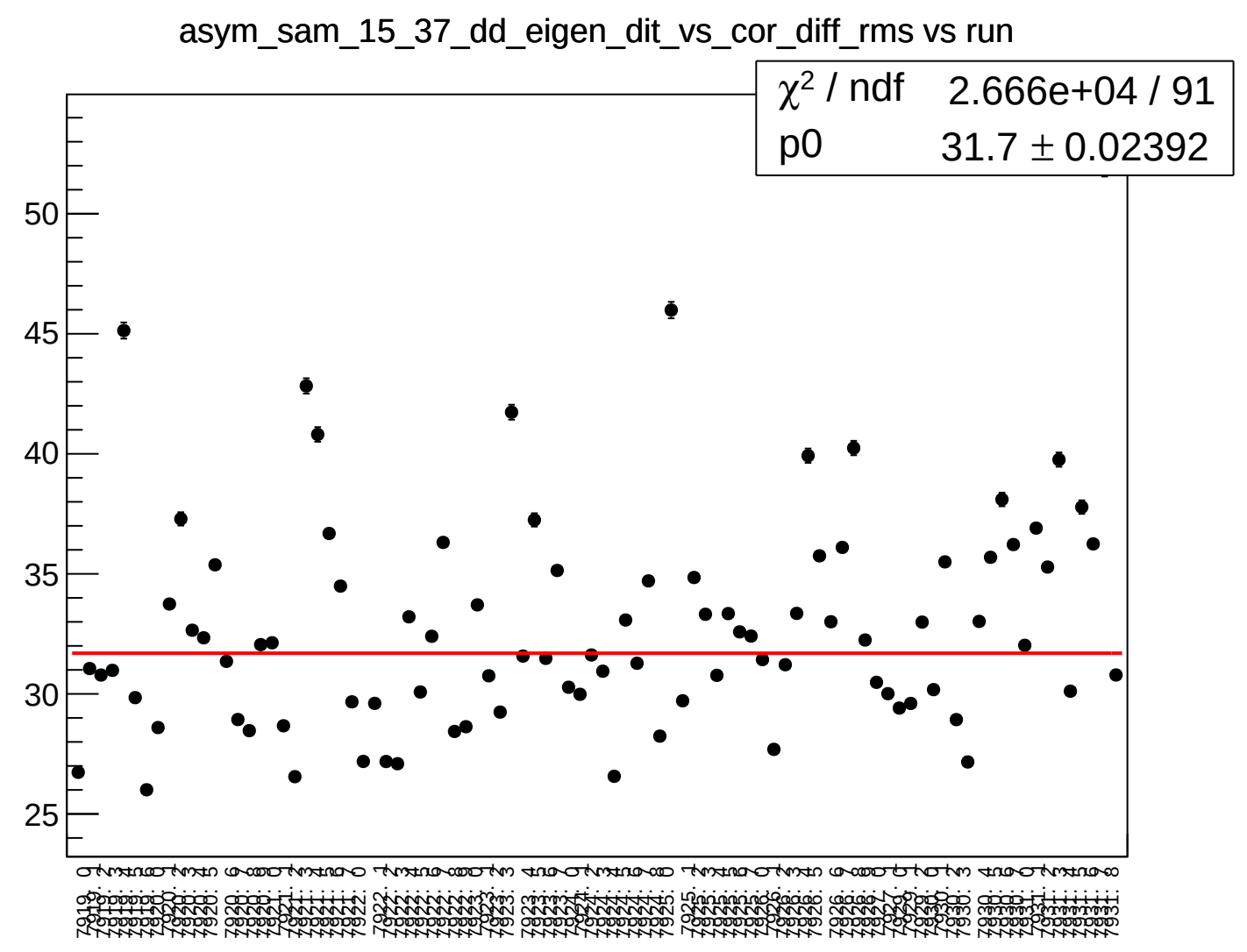

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.666e+04 / 91
p0 31.69 ± 0.02392
50
45
40
35
30
25

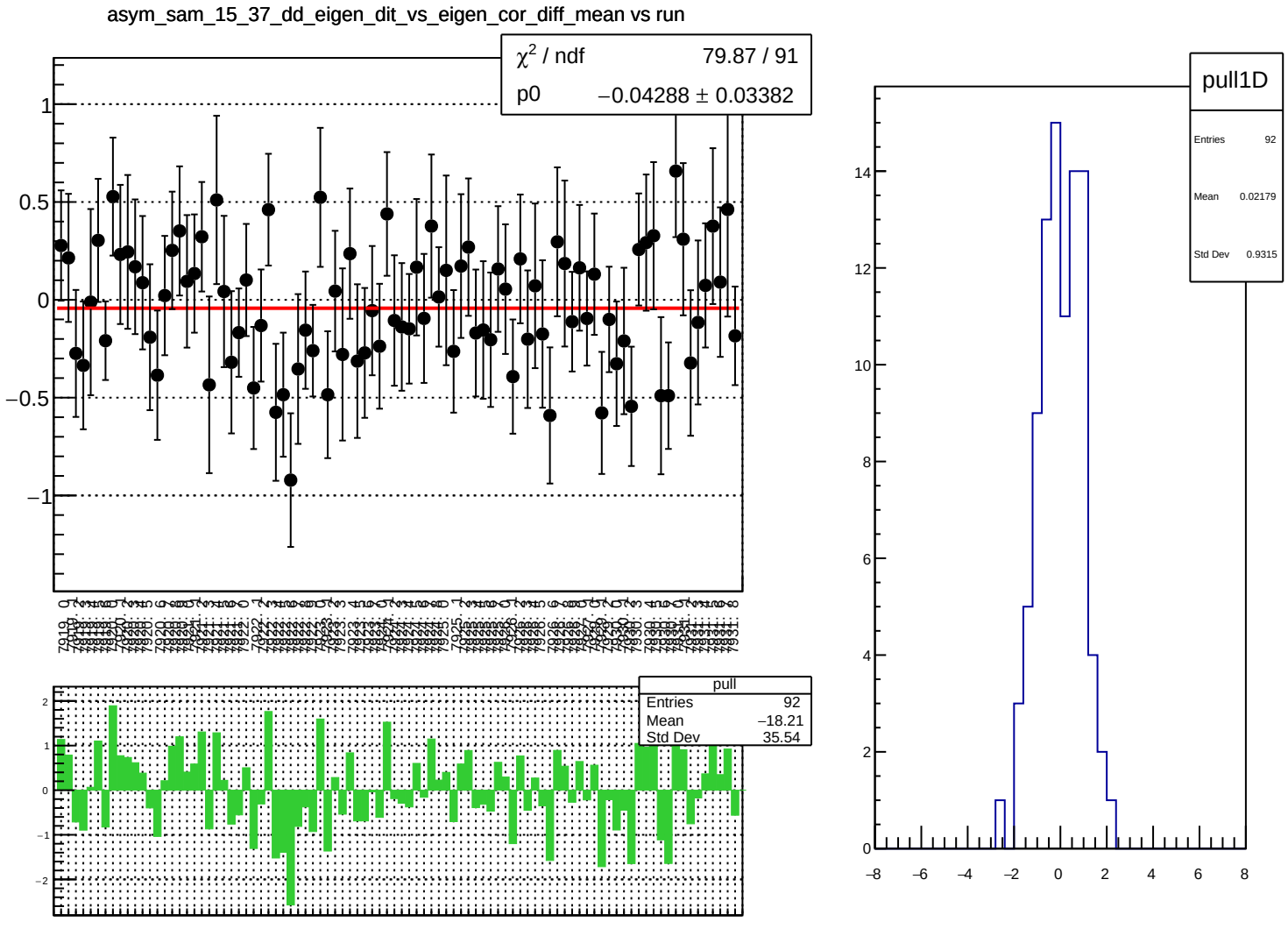

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 87.09 / 91
p0 −8.748e−07 ± 1.142e−06
×10⁻³
pull
Entries 92
Mean −3.74e+04
Std Dev 0

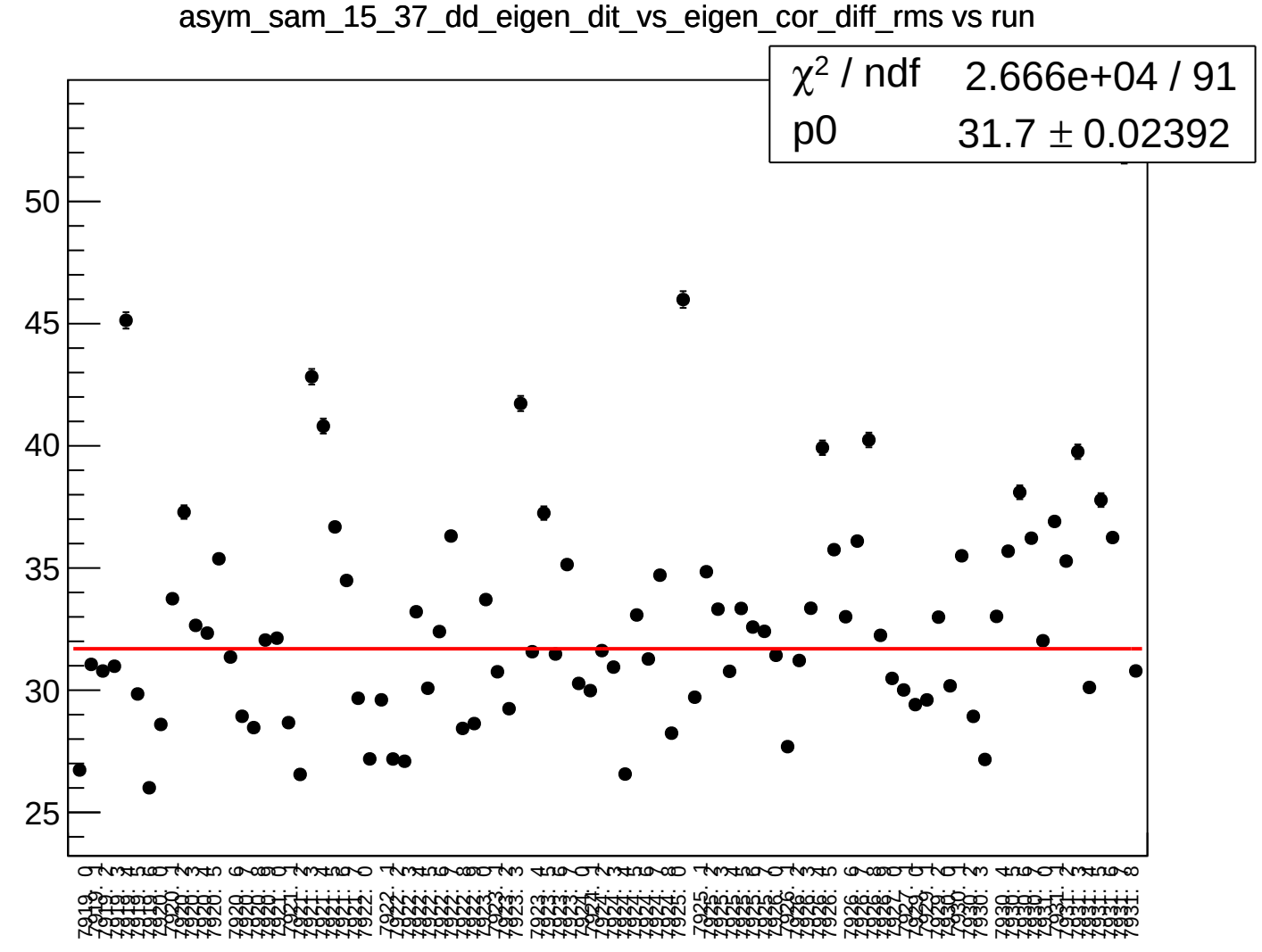

pull1D
Entries 92
Mean −0.0001828
Std Dev 0.9729

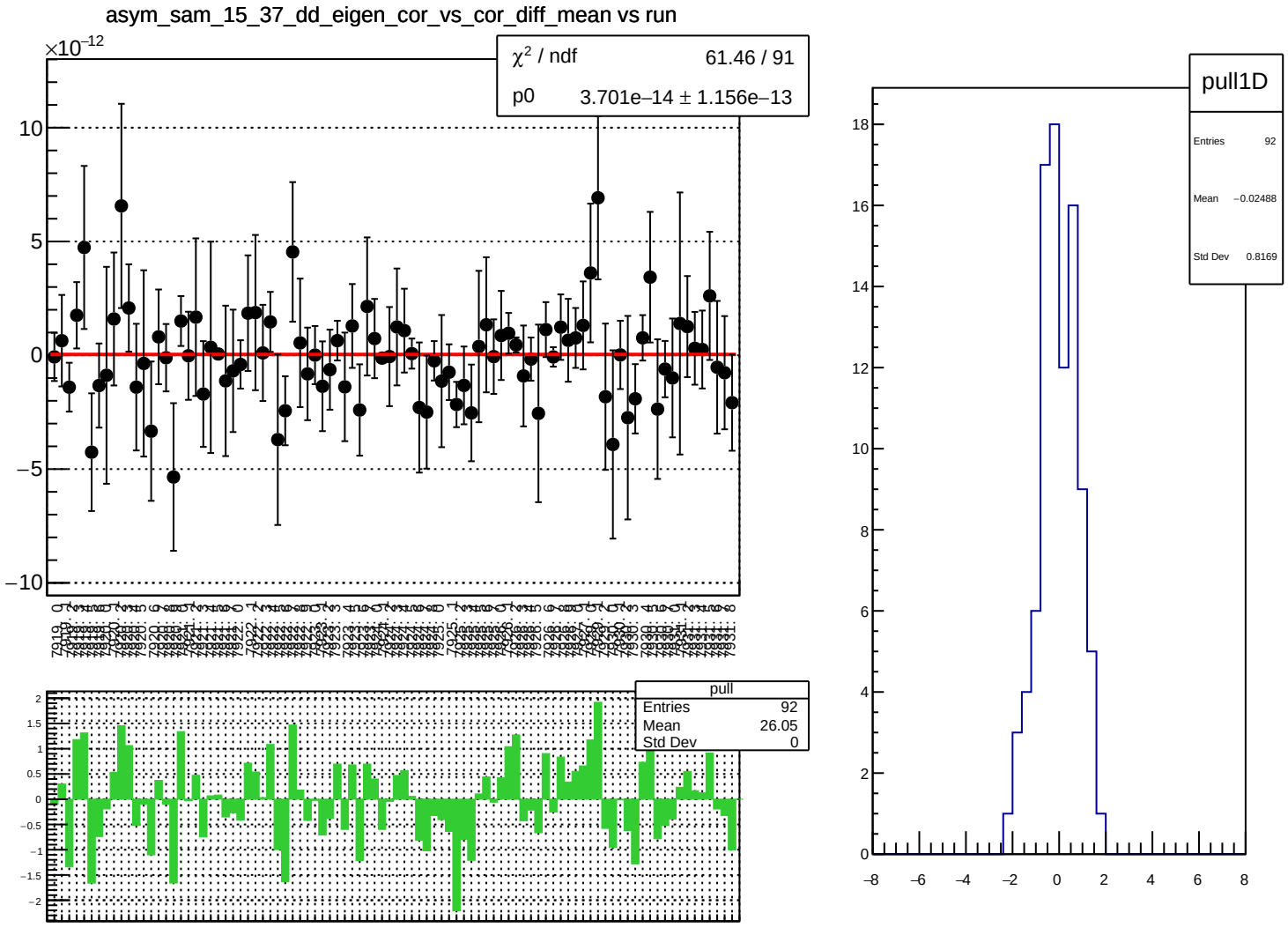

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 803.4 / 91
p0 0.001078 ± 8.076e−07
0.00116
0.00114
0.00112
0.0011
0.00108
0.00106
0.00104
0.00102

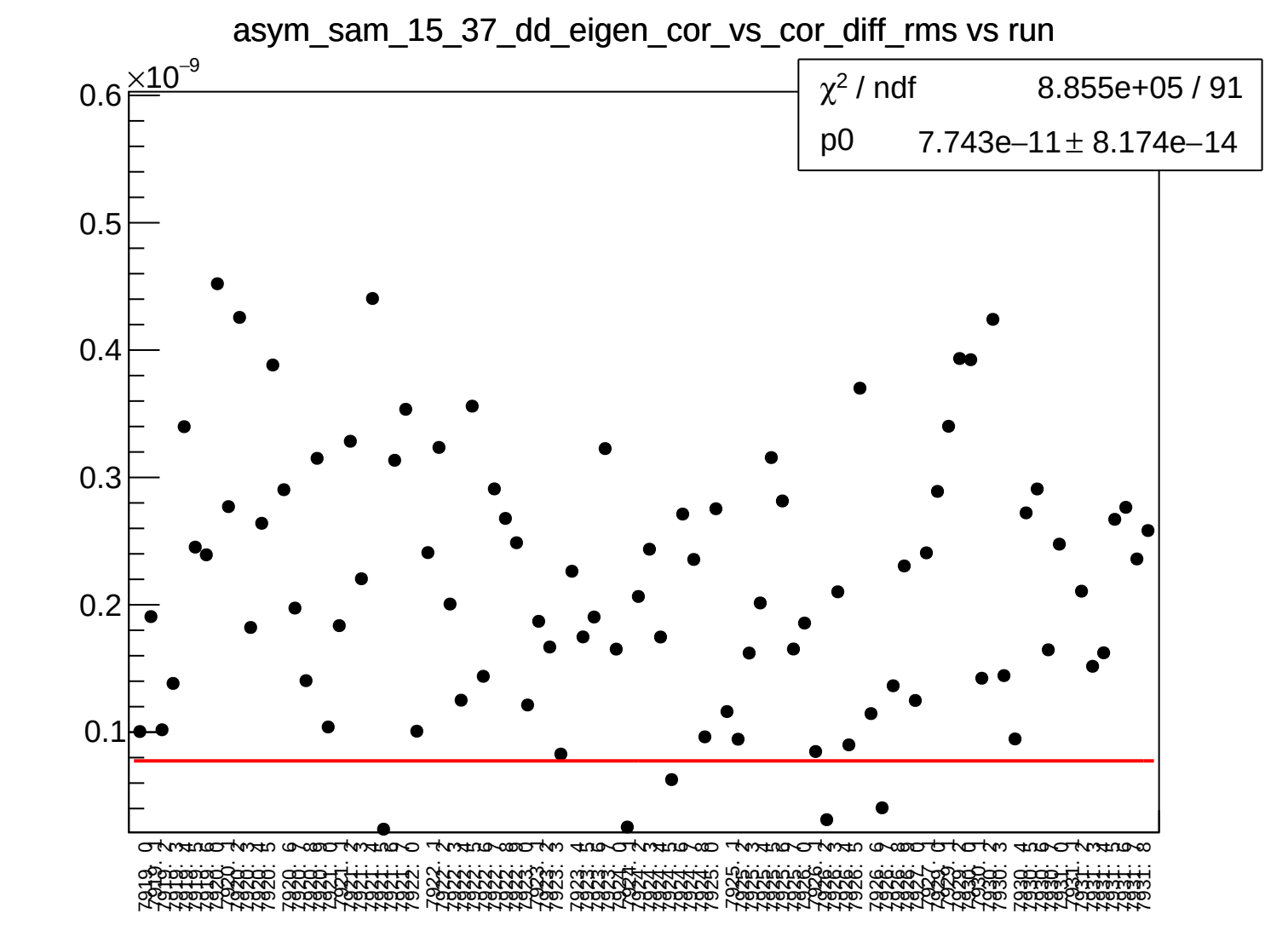

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.87 / 91
p0 −0.04288 ± 0.03382
pull
Entries 92
Mean −18.21
Std Dev 35.54
pull1D
Entries 92
Mean 0.02179
Std Dev 0.9315

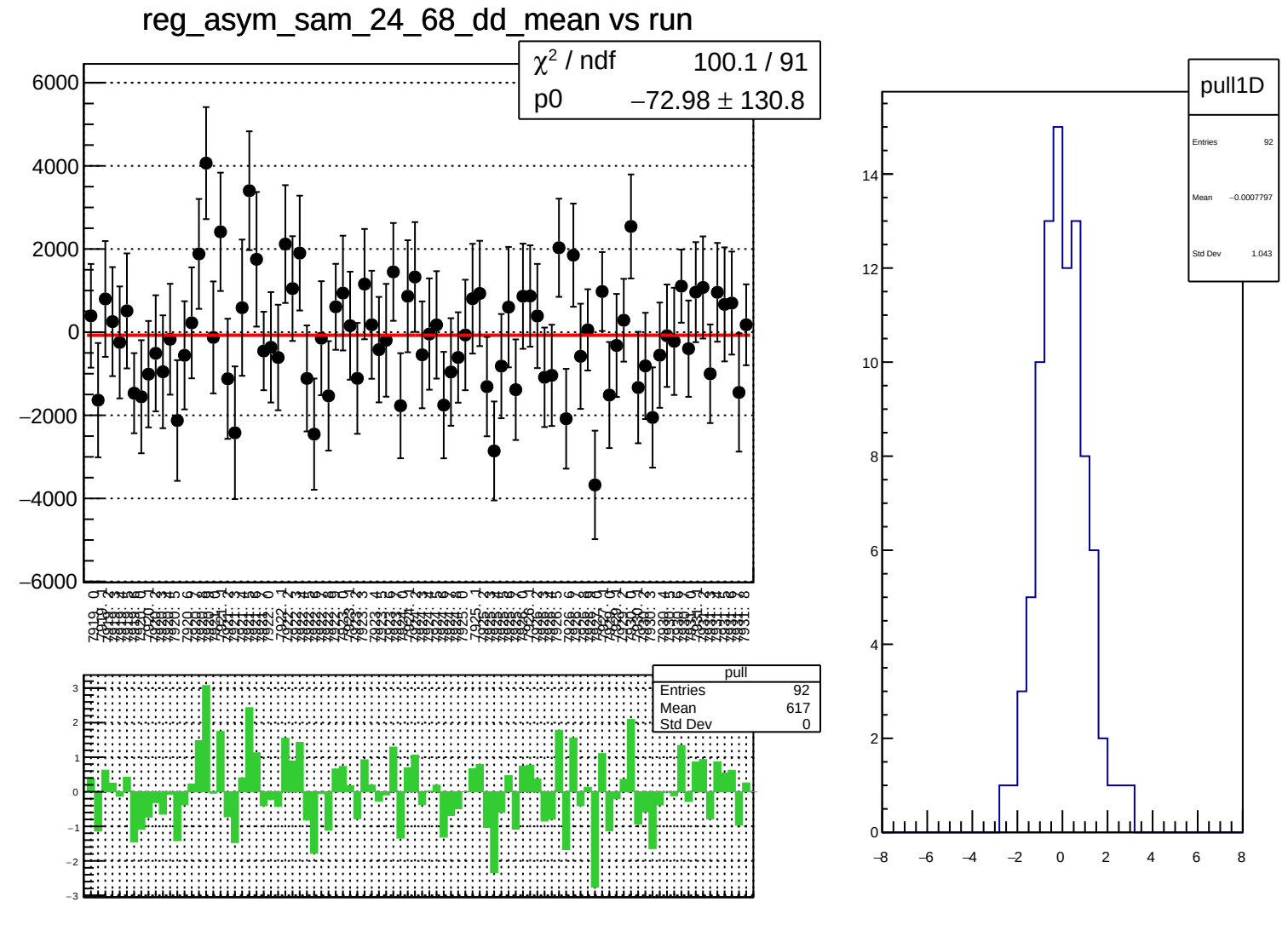

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.666e+04 / 91
p0 31.7 ± 0.02392
50
45
40
35
30
25

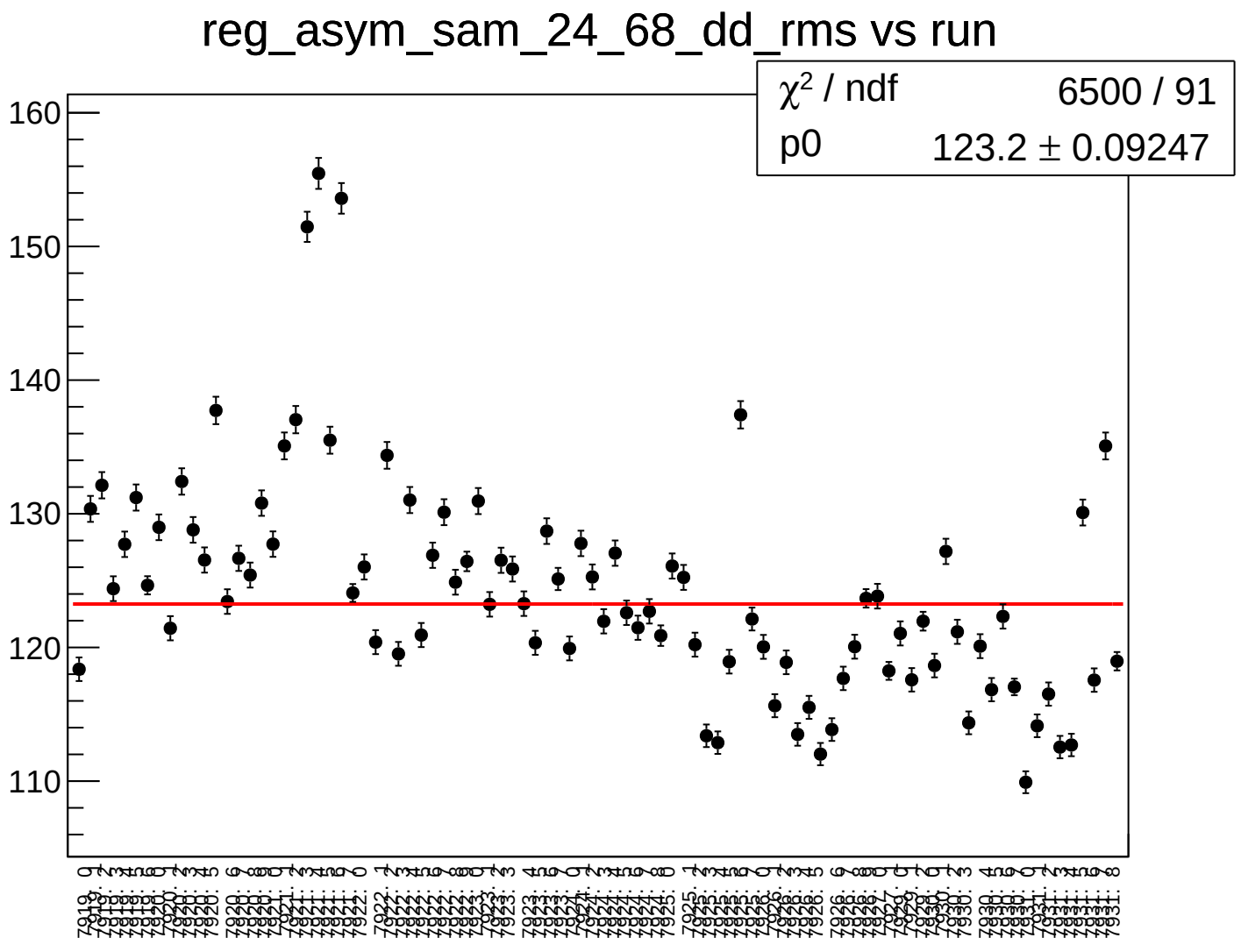

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.87 / 91
p0 −0.04288 ± 0.03382
pull
Entries 92
Mean −18.21
Std Dev 35.54
pull1D
Entries 92
Mean 0.02179
Std Dev 0.9315

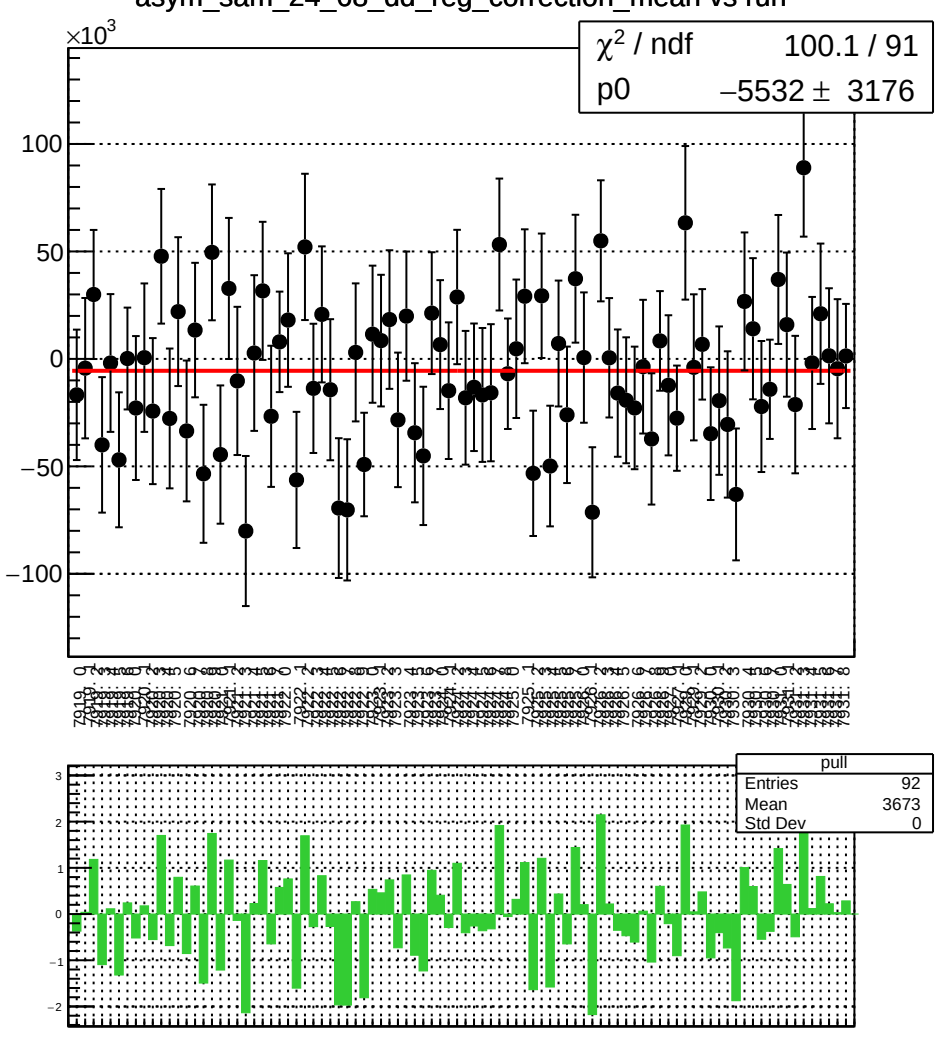

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.666e+04 / 91
p0 31.7 ± 0.02392
50
45
40
35
30
25

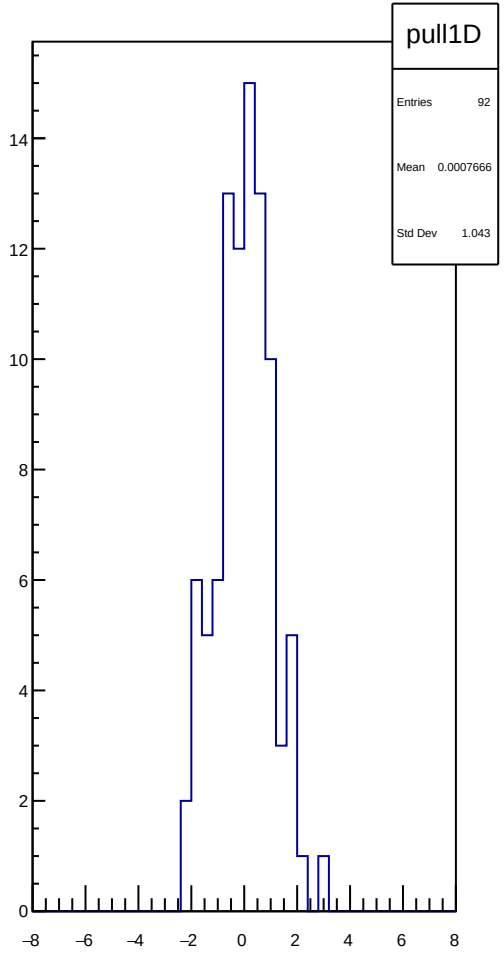

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 61.46 / 91
p0 3.701e−14 ± 1.156e−13
10
5
0
−5
−10
pull
Entries 92
Mean 26.05
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean −0.02488
Std Dev 0.8169
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

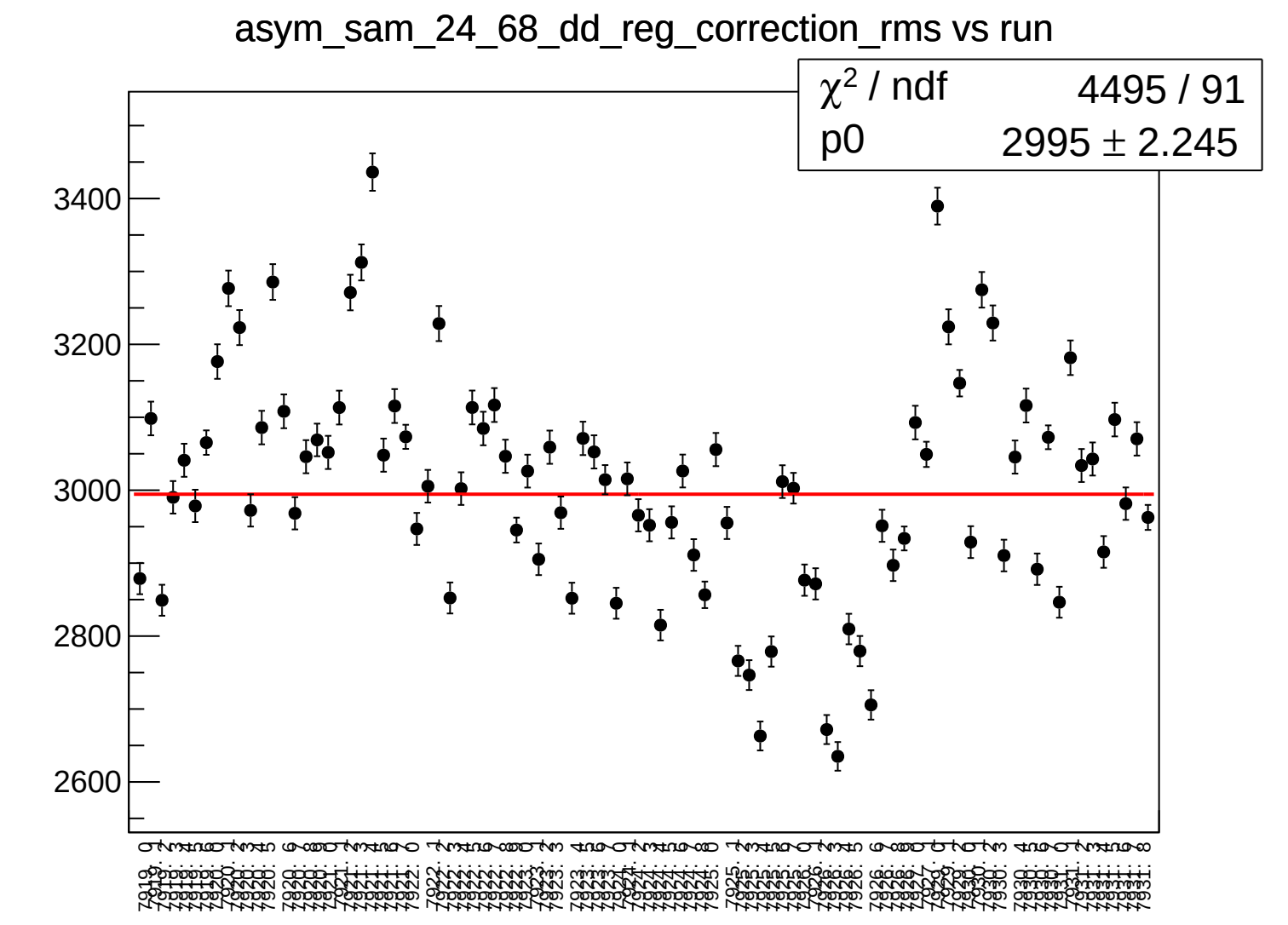

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.6
0.5
0.4
0.3
0.2
0.1
χ² / ndf 8.855e+05 / 91
p0 7.743e−11 ± 8.174e−14

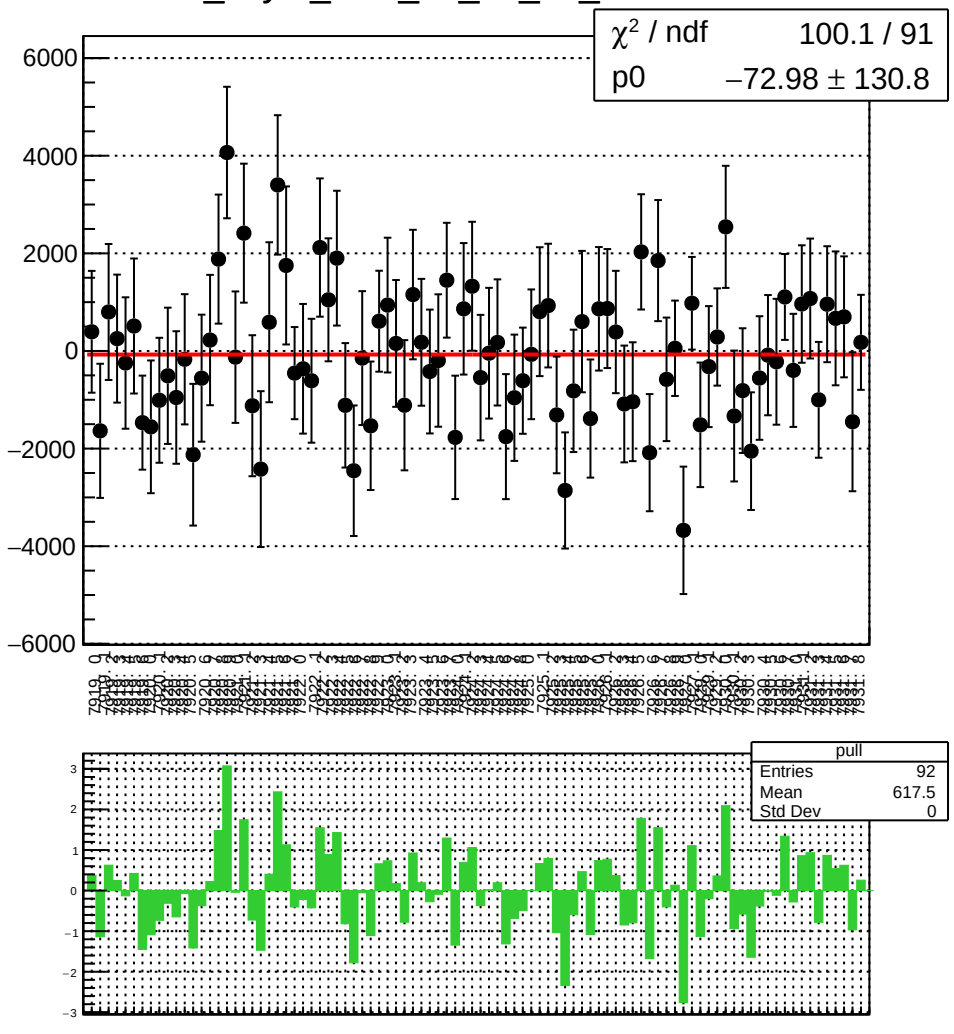

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 100.1 / 91
p0 −72.98 ± 130.8
pull
Entries 92
Mean 617
Std Dev 0
pull1D
Entries 92
Mean −0.0007797
Std Dev 1.043

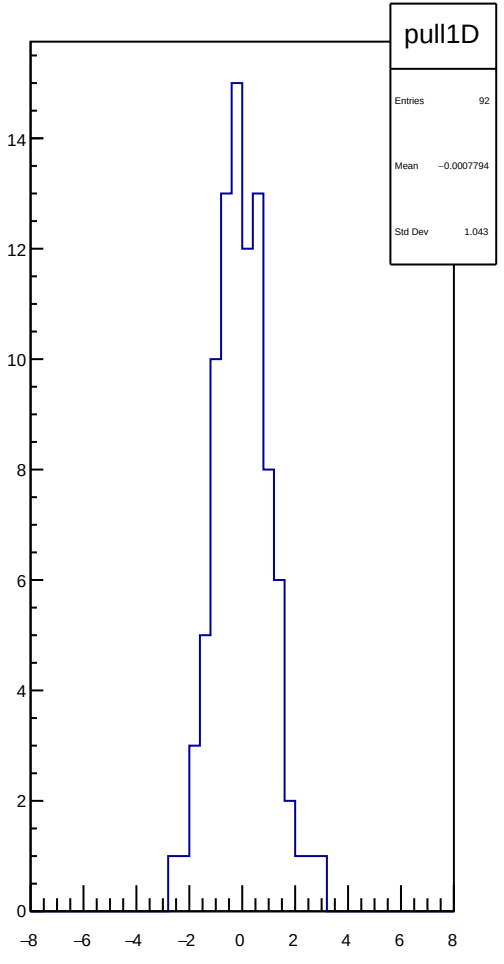

reg_asym_sam_24_68_dd_rms vs run
χ² / ndf 6500 / 91
p0 123.2 ± 0.09247
160
150
140
130
120
110

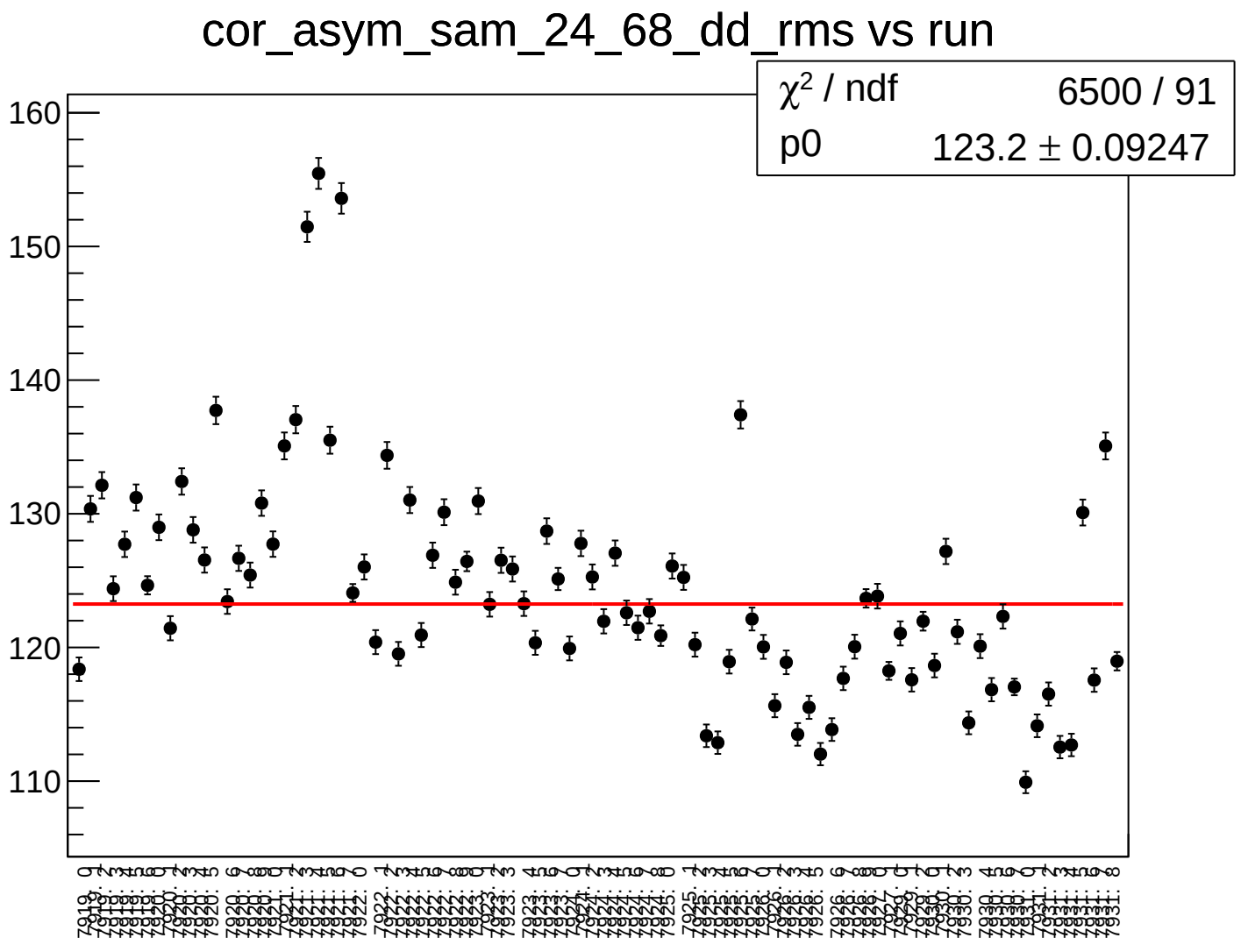

asym_sam_24_68_dd_reg_correction_mean vs run
×10^3
χ² / ndf 100.1 / 91
p0 −5532 ± 3176
100
50
0
−50
−100
pull
Entries 92
Mean 3673
Std Dev 0
3
2
1
0
−1
−2

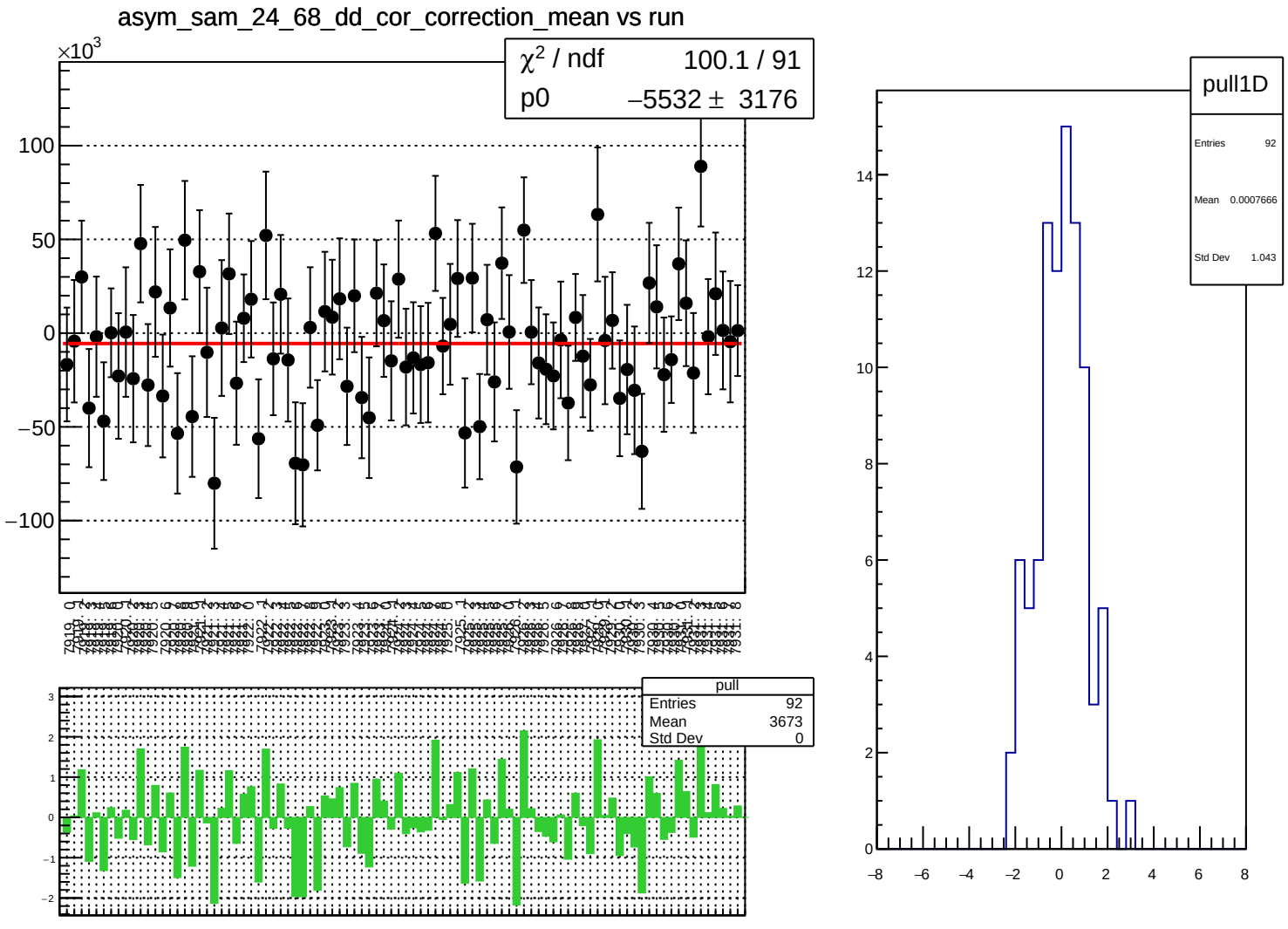

pull1D
Entries 92
Mean 0.0007666
Std Dev 1.043
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

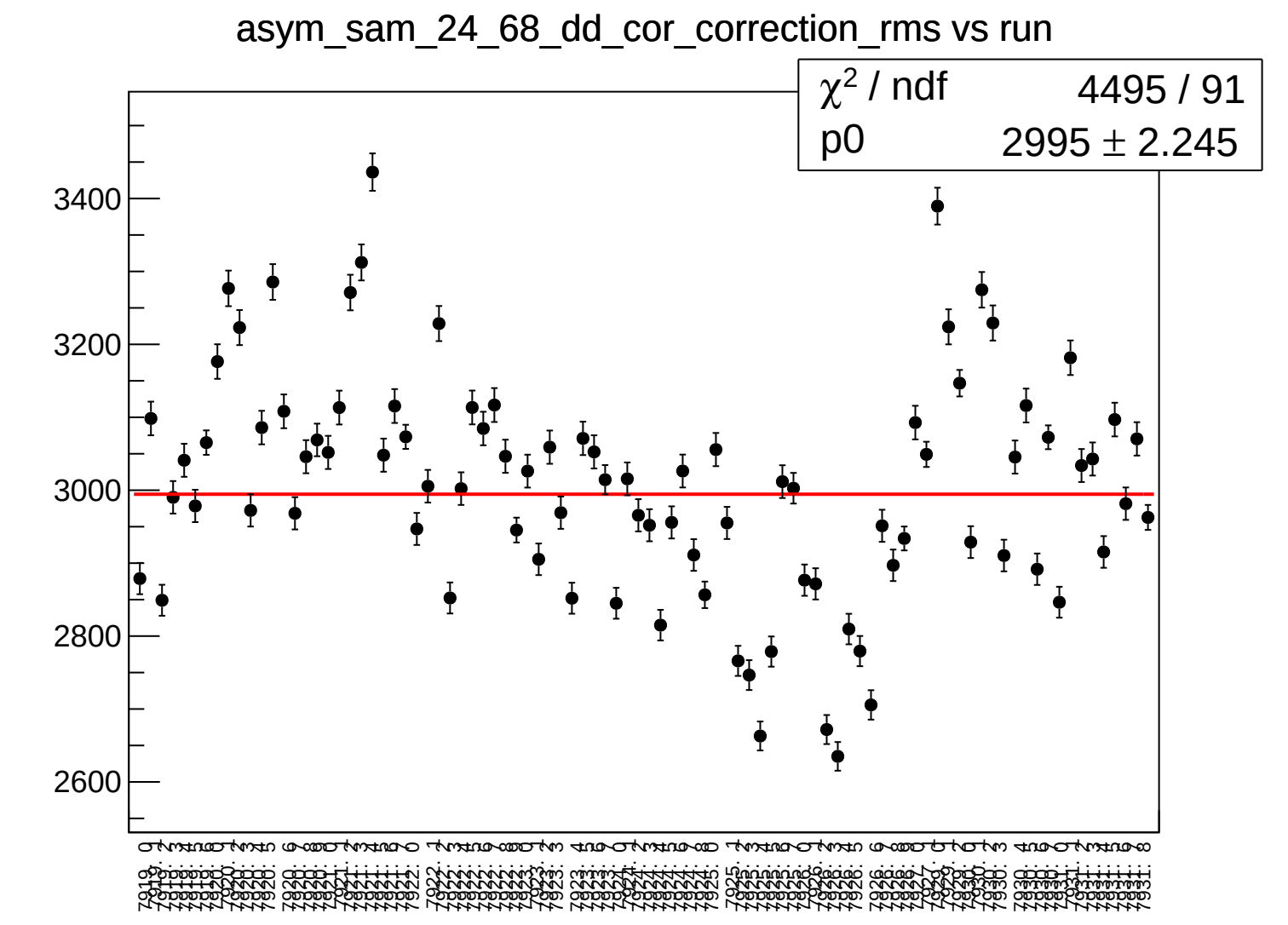

asym_sam_24_68_dd_reg_correction_rms vs run
χ² / ndf 4495 / 91
p0 2995 ± 2.245
3400
3200
3000
2800
2600

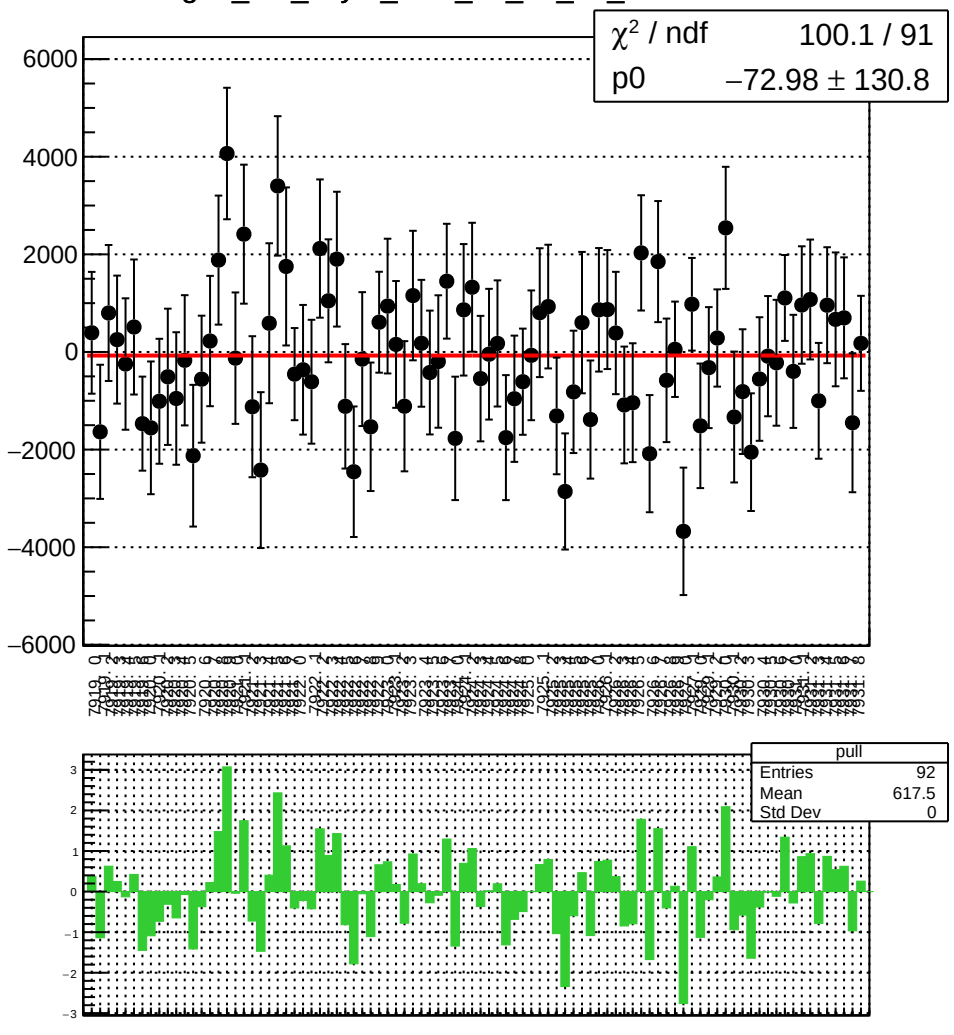

cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 100.1 / 91
p0 −72.98 ± 130.8
pull
Entries 92
Mean 617.5
Std Dev 0

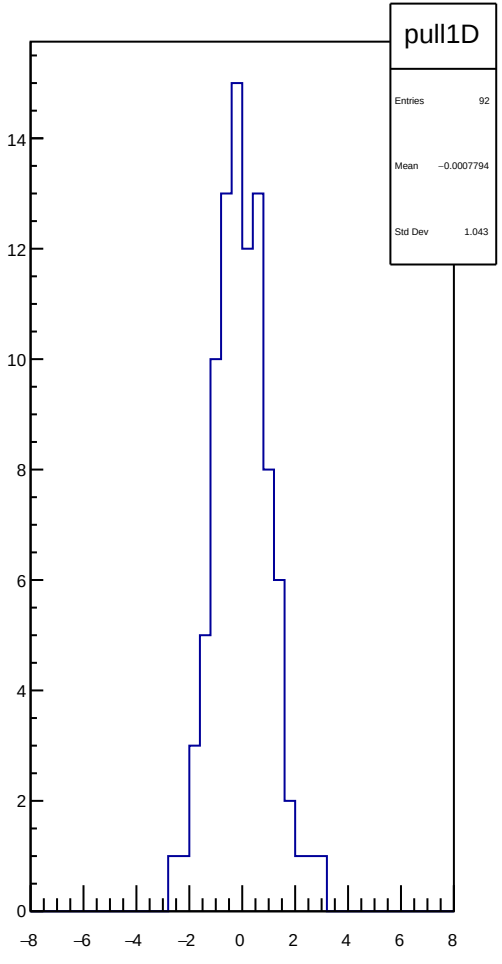

pull1D
Entries 92
Mean −0.0007794
Std Dev 1.043

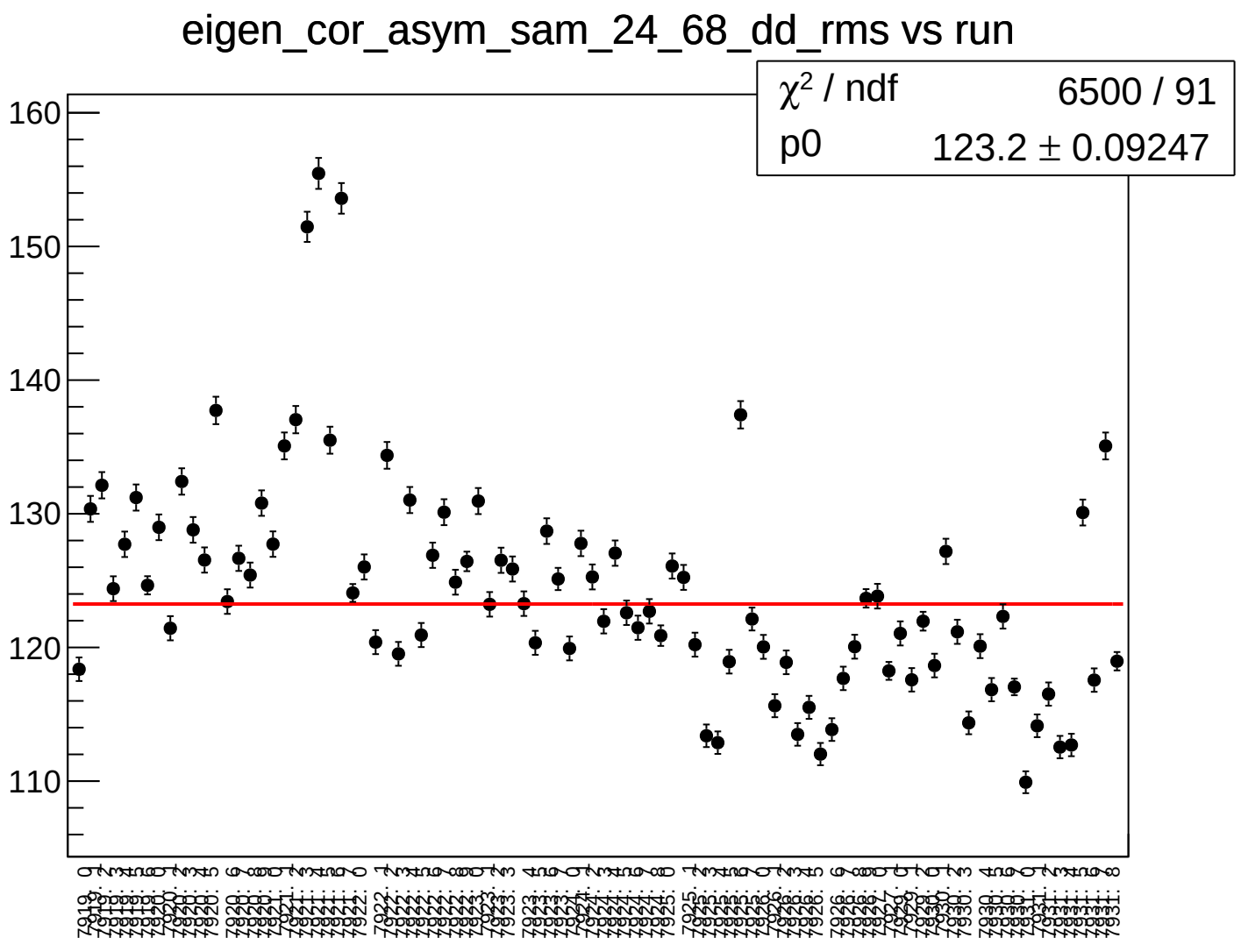

cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 6500 / 91
p0 123.2 ± 0.09247
160
150
140
130
120
110

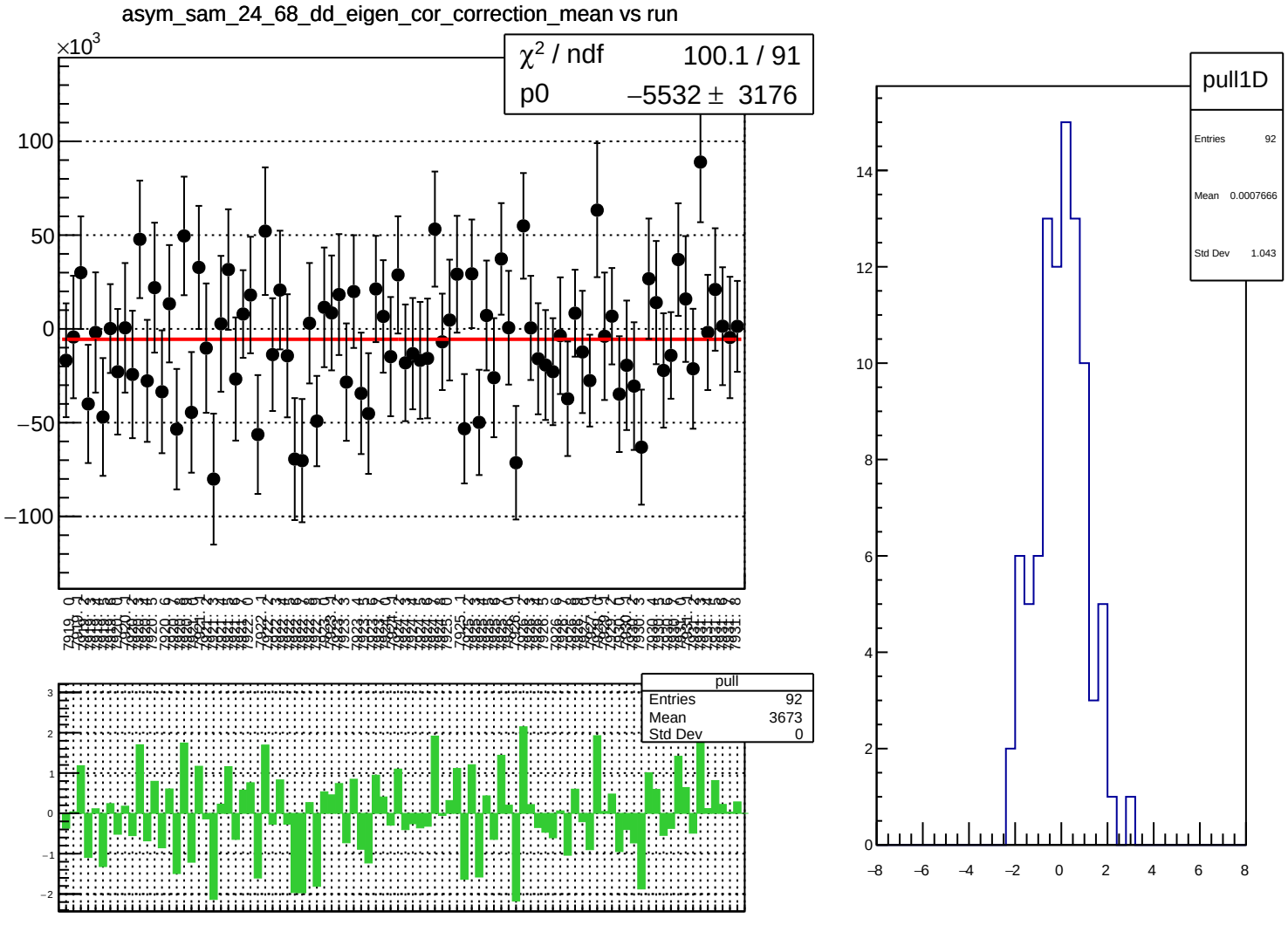

asym_sam_24_68_dd_cor_correction_mean vs run
χ² / ndf 100.1 / 91
p0 −5532 ± 3176
×10³
pull
Entries 92
Mean 3673
Std Dev 0
pull1D
Entries 92
Mean 0.0007666
Std Dev 1.043

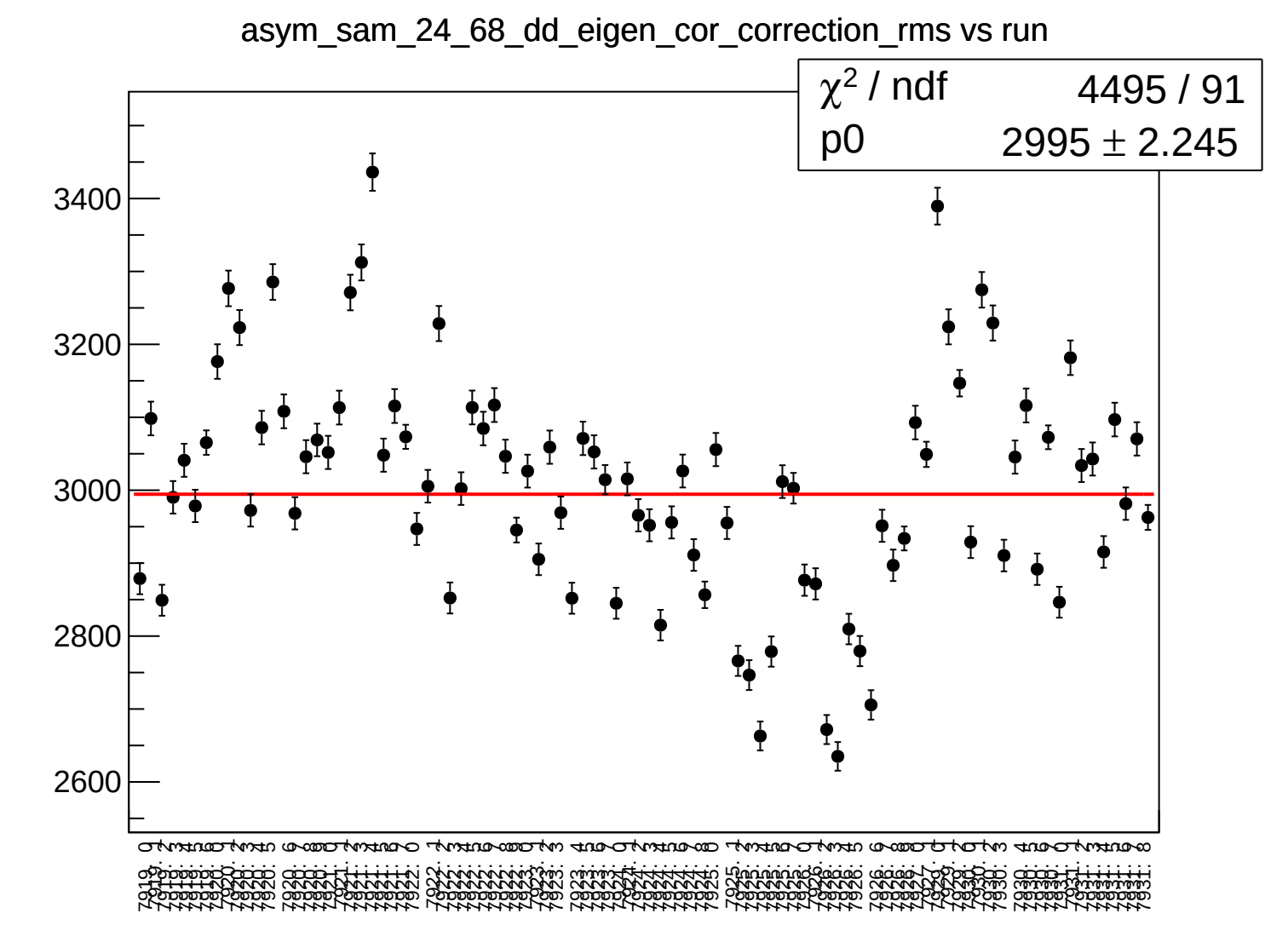

asym_sam_24_68_dd_cor_correction_rms vs run
χ² / ndf 4495 / 91
p0 2995 ± 2.245
3400
3200
3000
2800
2600

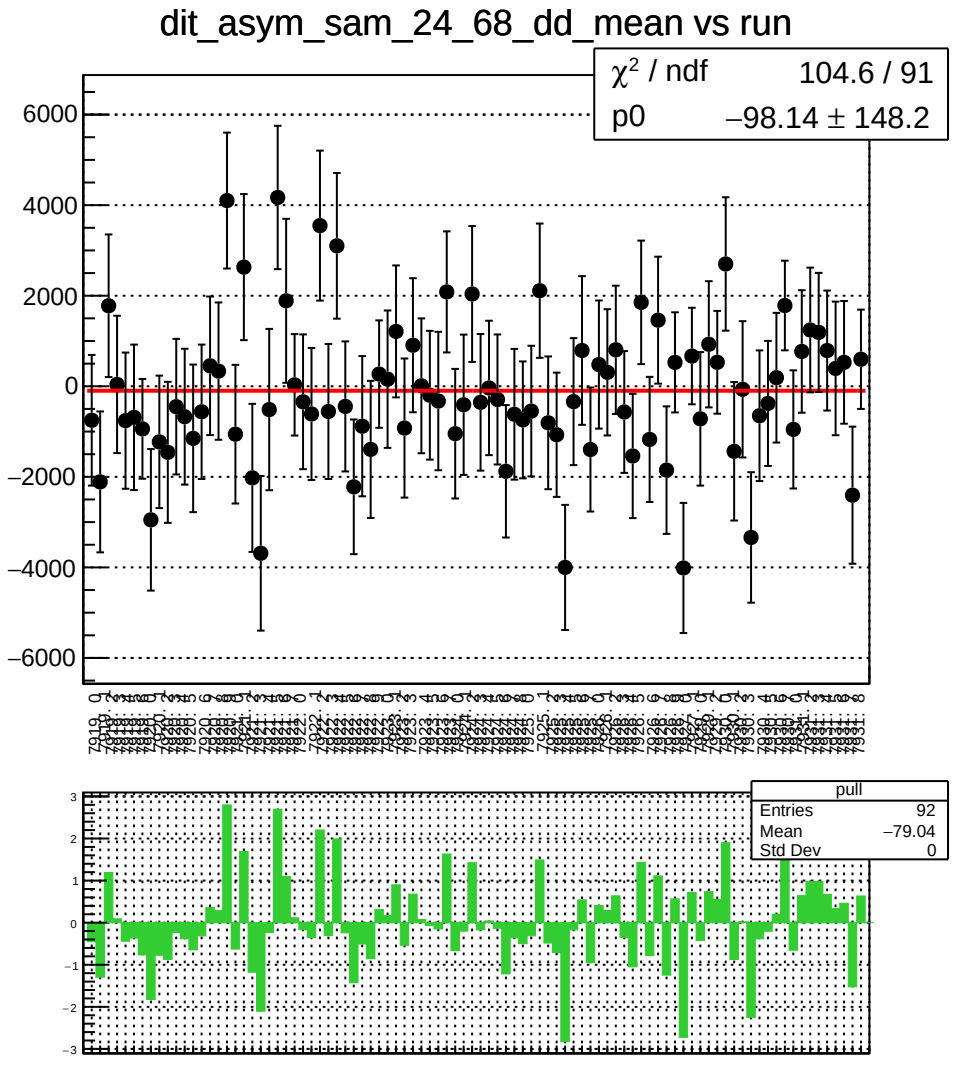

eigen_cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 100.1 / 91
p0 −72.98 ± 130.8
pull
Entries 92
Mean 617.5
Std Dev 0

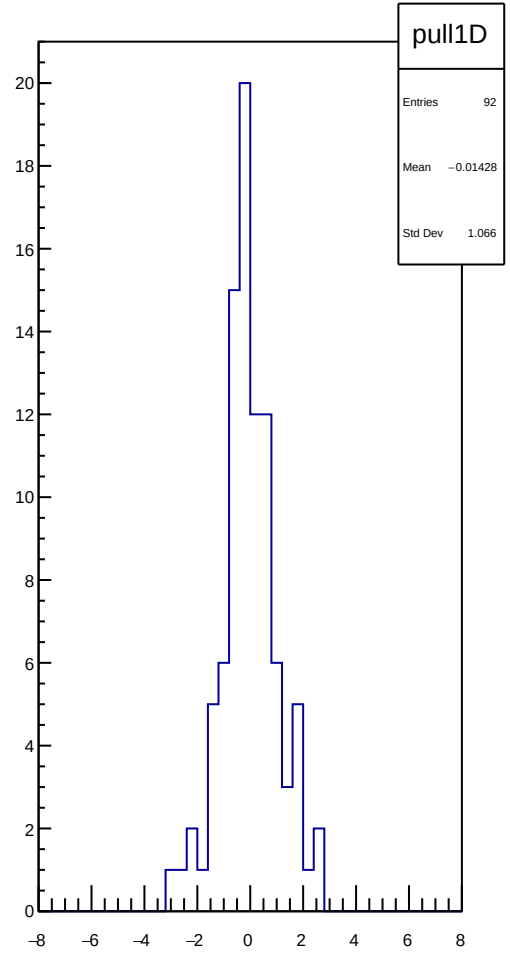

pull1D
Entries 92
Mean −0.0007794
Std Dev 1.043

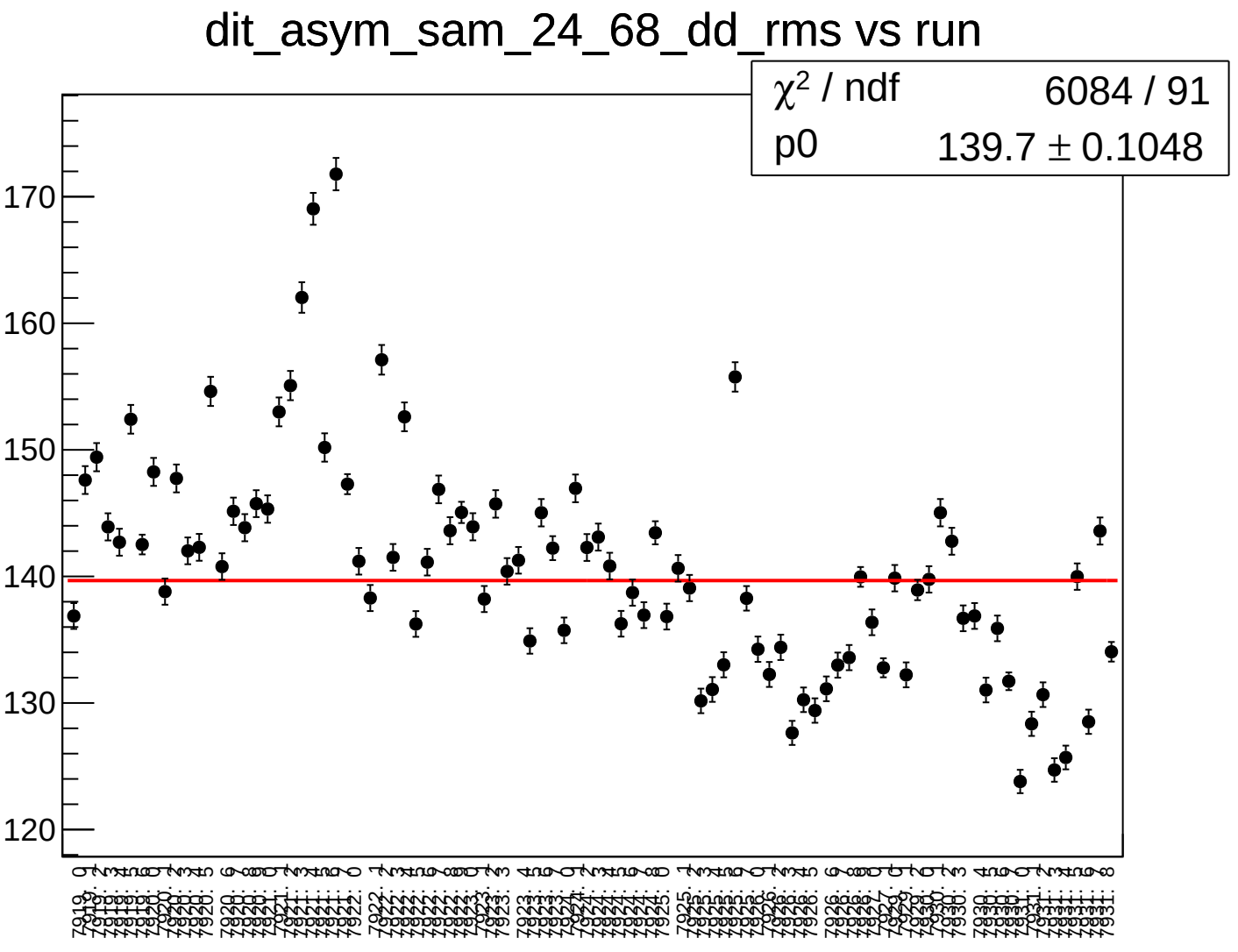

eigen_cor_asym_sam_24_68_dd_rms vs run
χ^2 / ndf 6500 / 91
p0 123.2 ± 0.09247
160
150
140
130
120
110

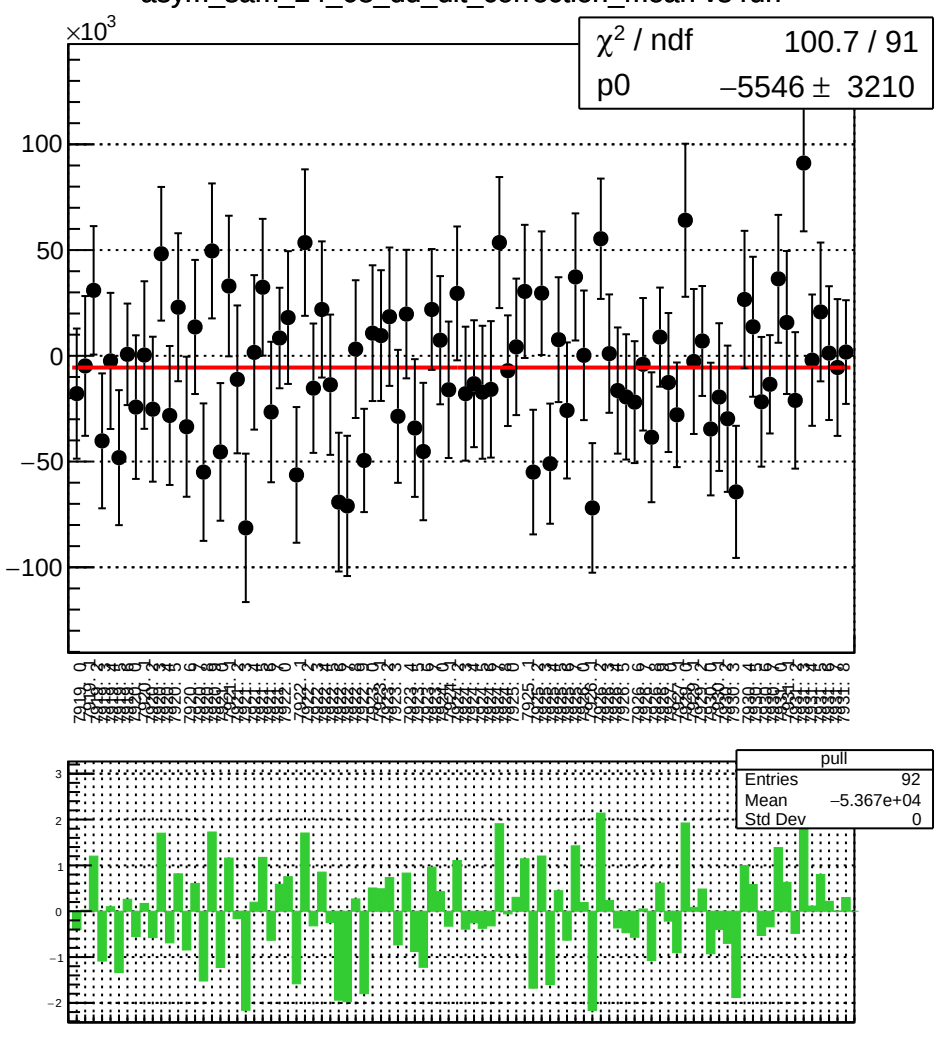

asym_sam_24_68_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 100.1 / 91
p0 −5532 ± 3176
100
50
0
−50
−100
pull
Entries 92
Mean 3673
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.0007666
Std Dev 1.043
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

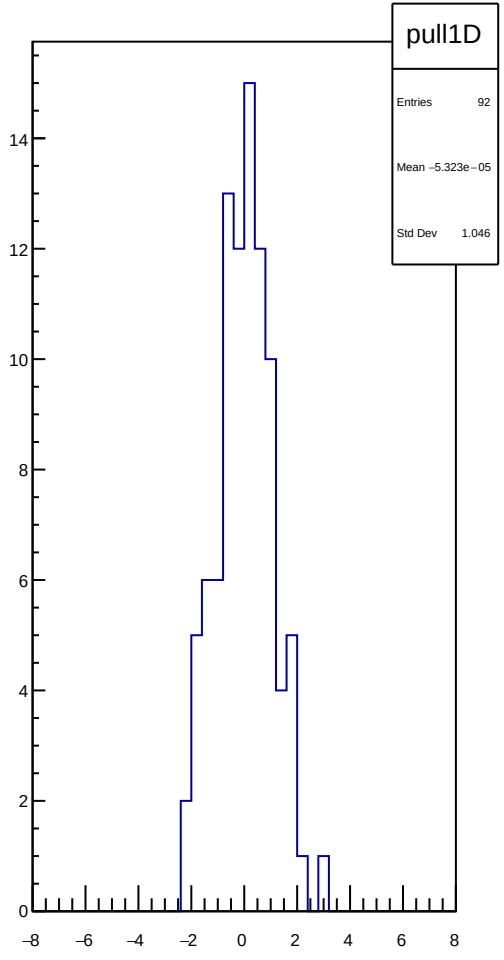

asym_sam_24_68_dd_eigen_cor_correction_rms vs run
χ² / ndf 4495 / 91
p0 2995 ± 2.245
3400
3200
3000
2800
2600

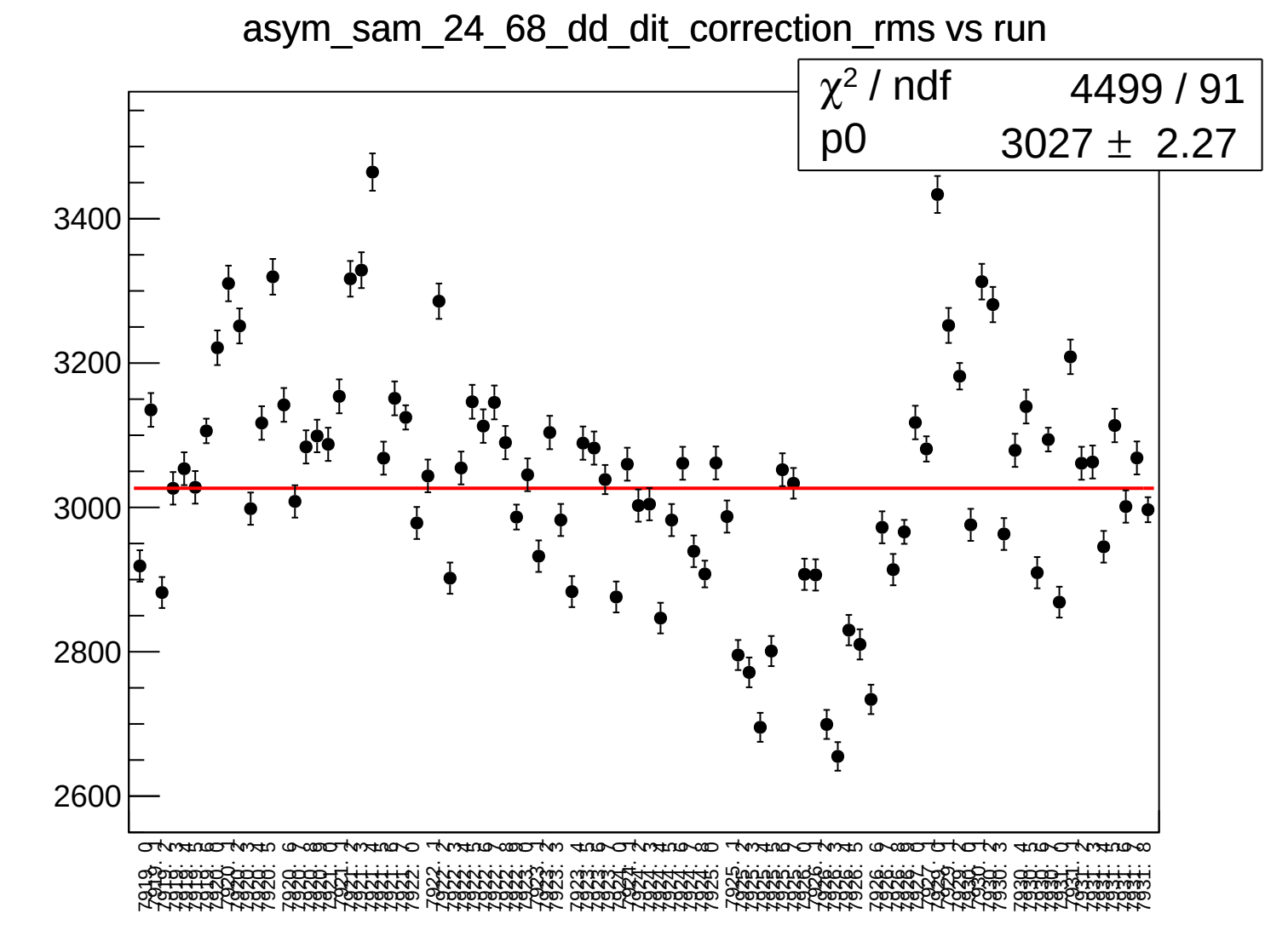

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 104.6 / 91
p0 −98.14 ± 148.2
pull
Entries 92
Mean −79.04
Std Dev 0

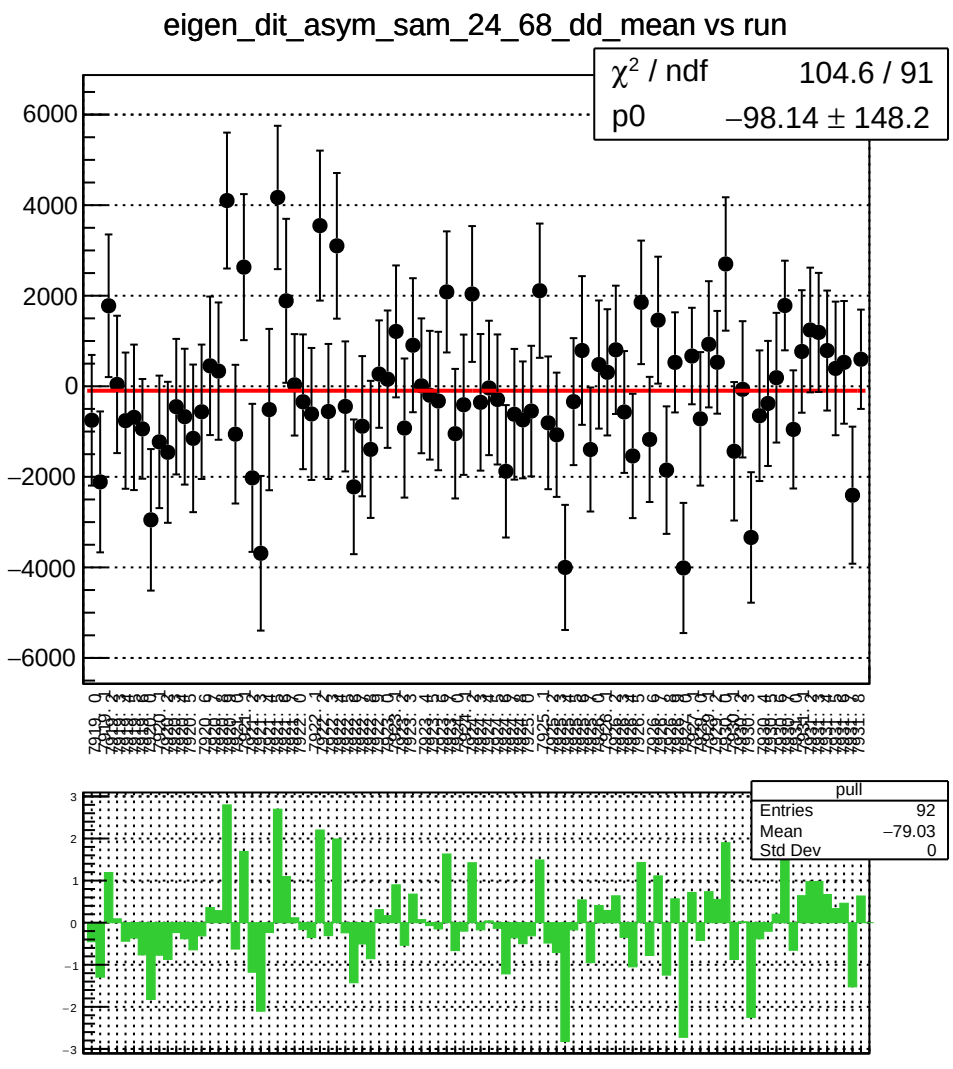

pull1D
Entries 92
Mean −0.01428
Std Dev 1.066

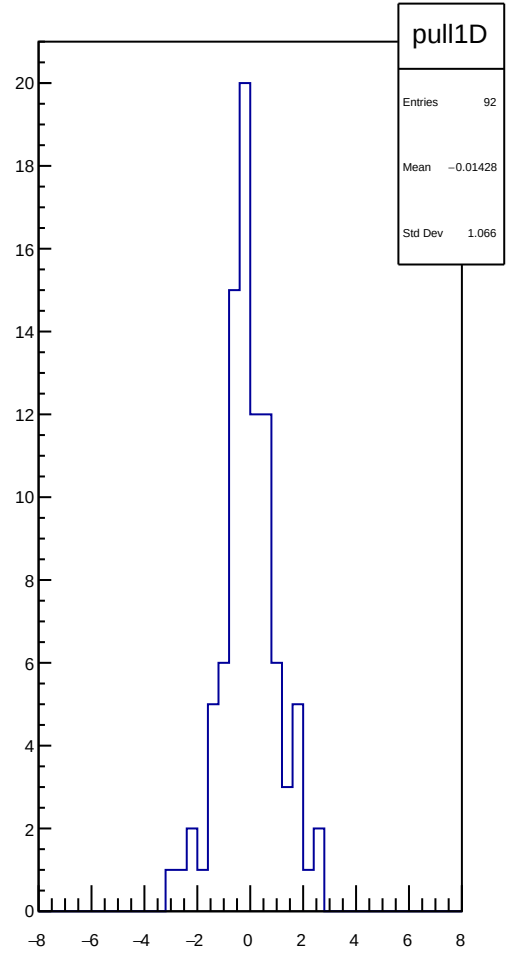

dit_asym_sam_24_68_dd_rms vs run
χ^2 / ndf 6084 / 91
p0 139.7 ± 0.1048
170
160
150
140
130
120

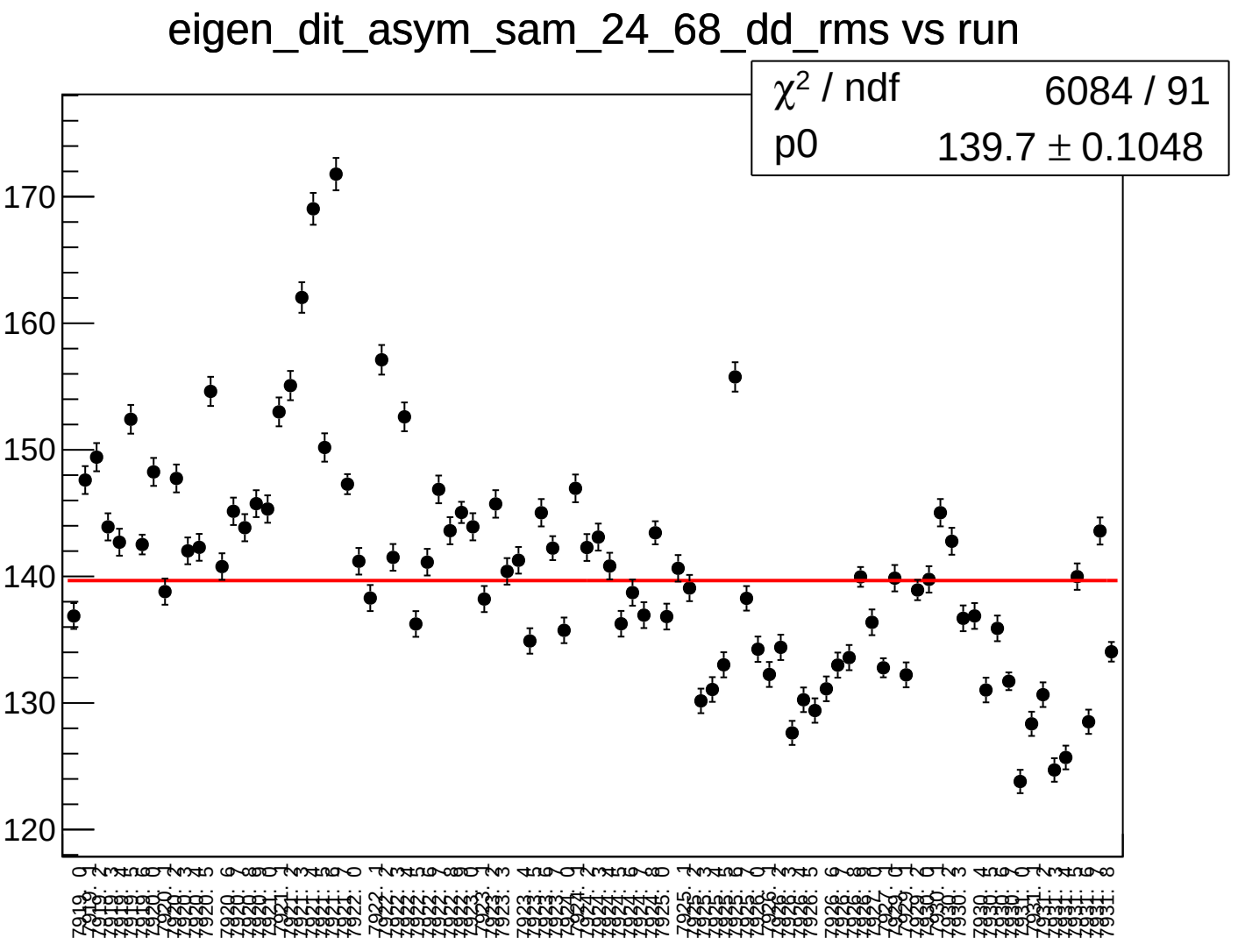

asym_sam_24_68_dd_dit_correction_mean vs run
×10^3
χ² / ndf 100.7 / 91
p0 −5546 ± 3210
100
50
0
−50
−100
pull
Entries 92
Mean −5.367e+04
Std Dev 0
3
2
1
0
−1
−2

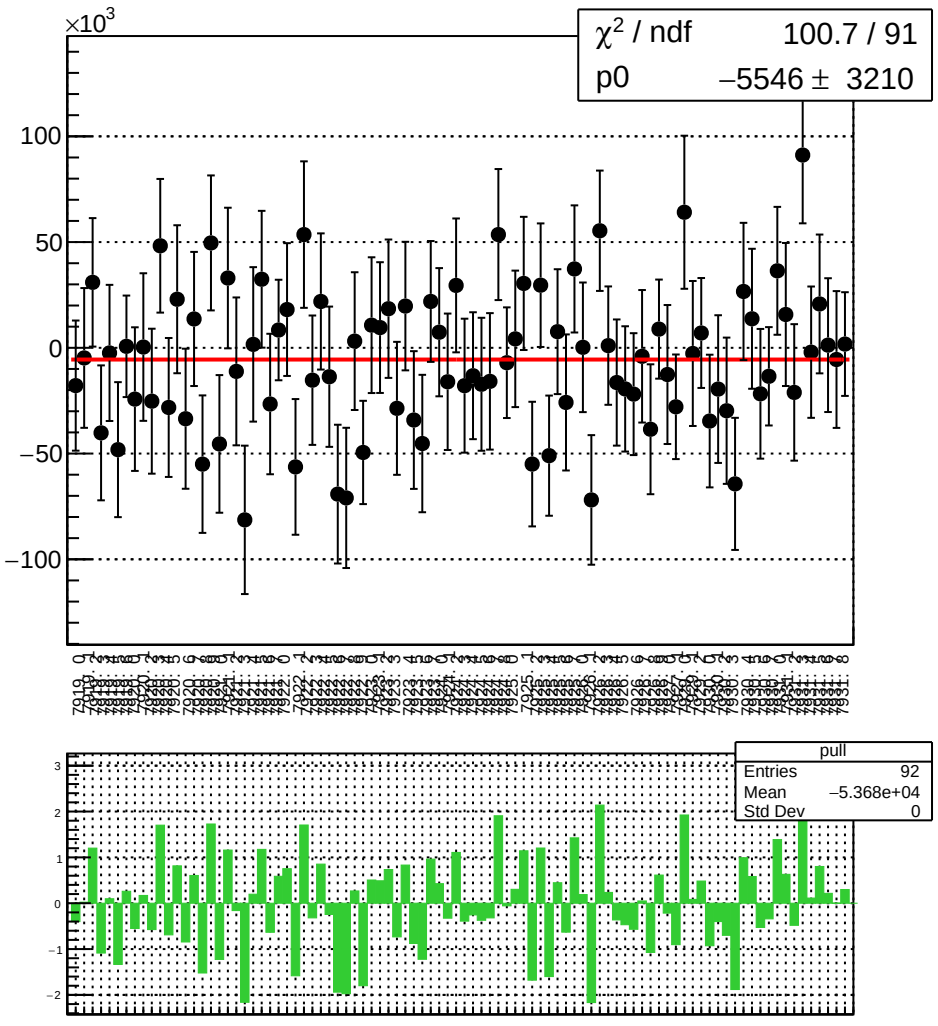

pull1D
Entries 92
Mean −5.323e−05
Std Dev 1.046
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

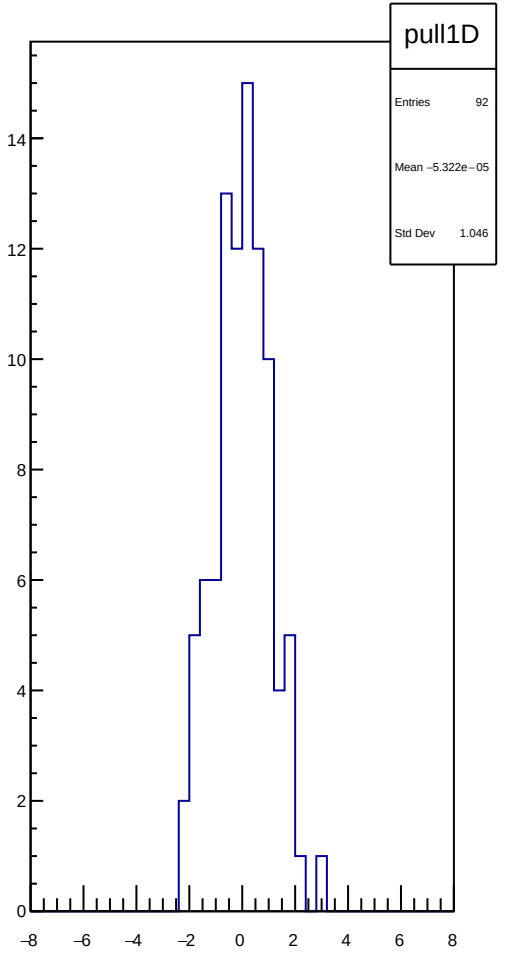

asym_sam_24_68_dd_dit_correction_rms vs run
χ² / ndf 4499 / 91
p0 3027 ± 2.27
3400
3200
3000
2800
2600

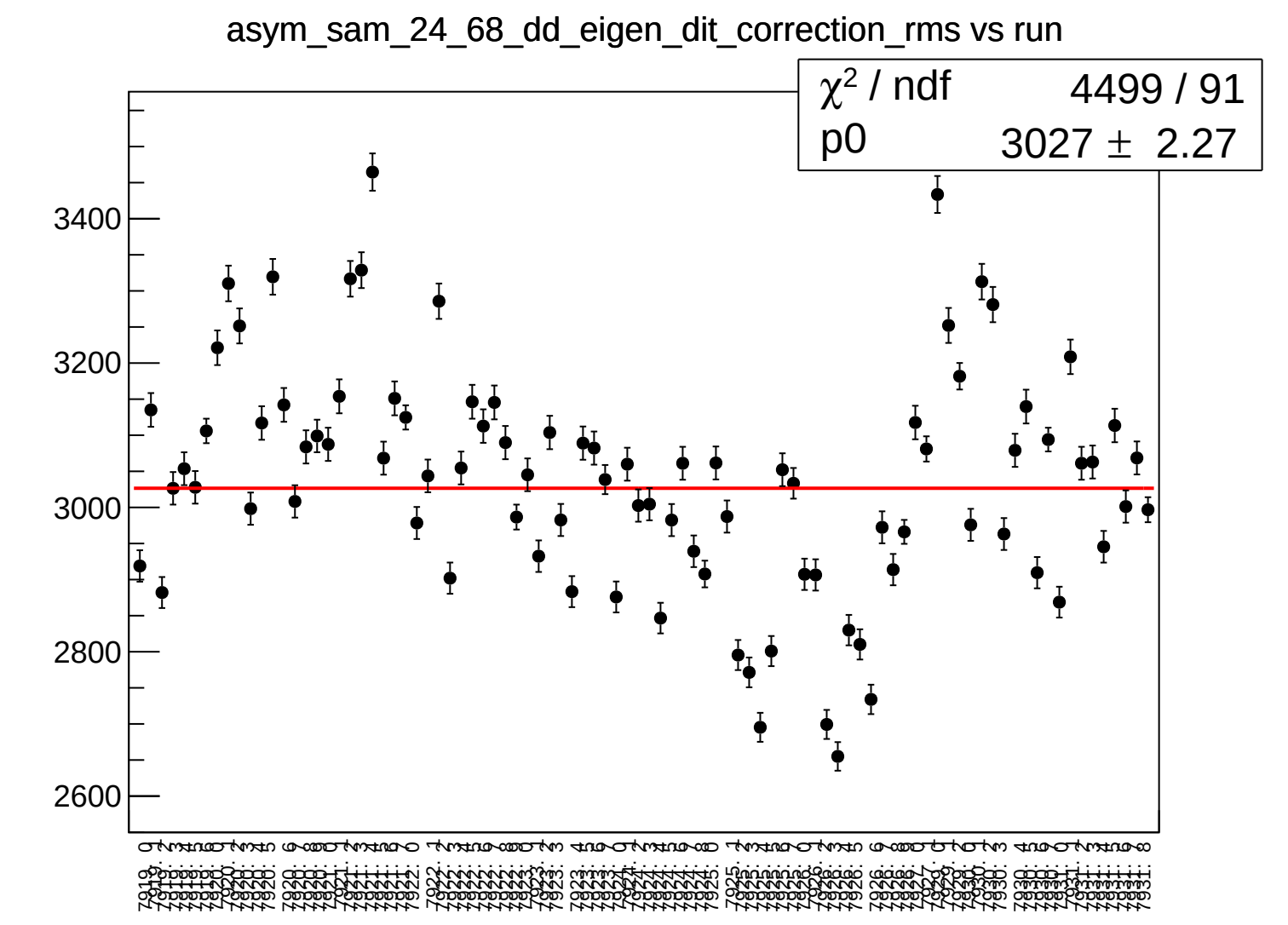

eigen_dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 104.6 / 91
p0 −98.14 ± 148.2
pull
Entries 92
Mean −79.03
Std Dev 0

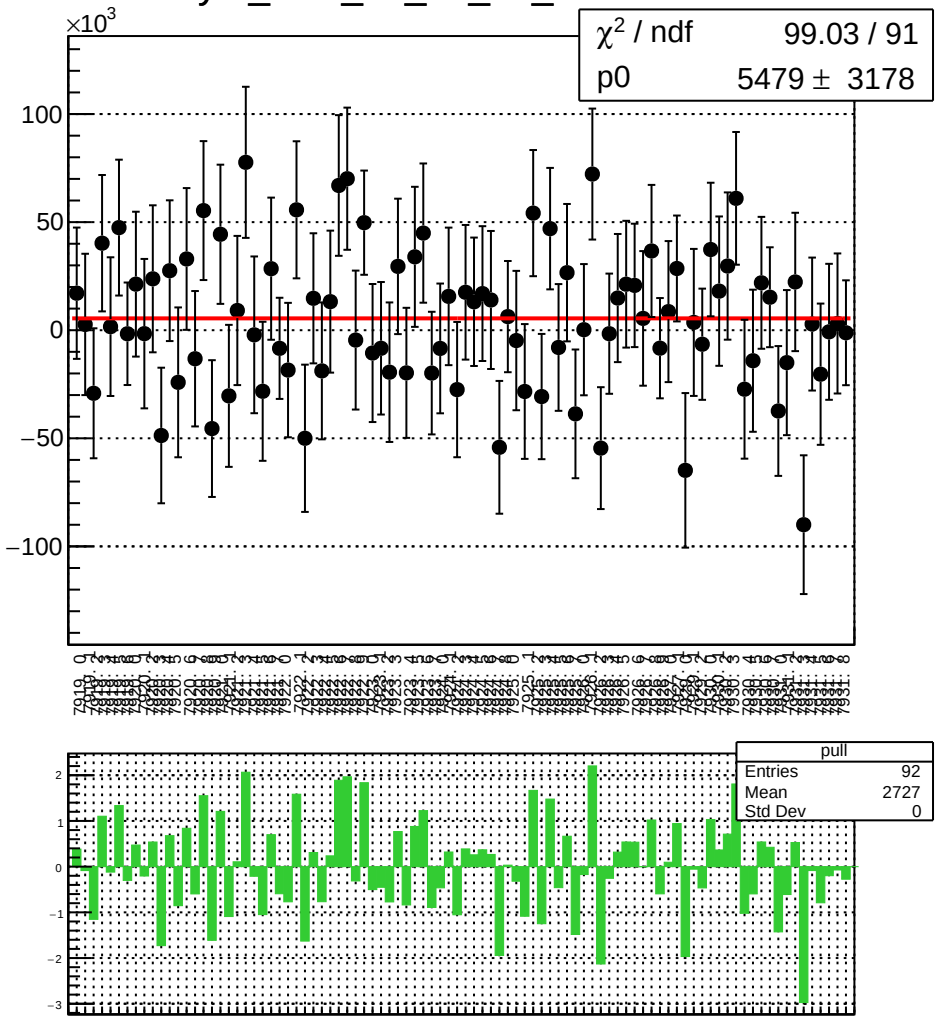

pull1D
Entries 92
Mean −0.01428
Std Dev 1.066

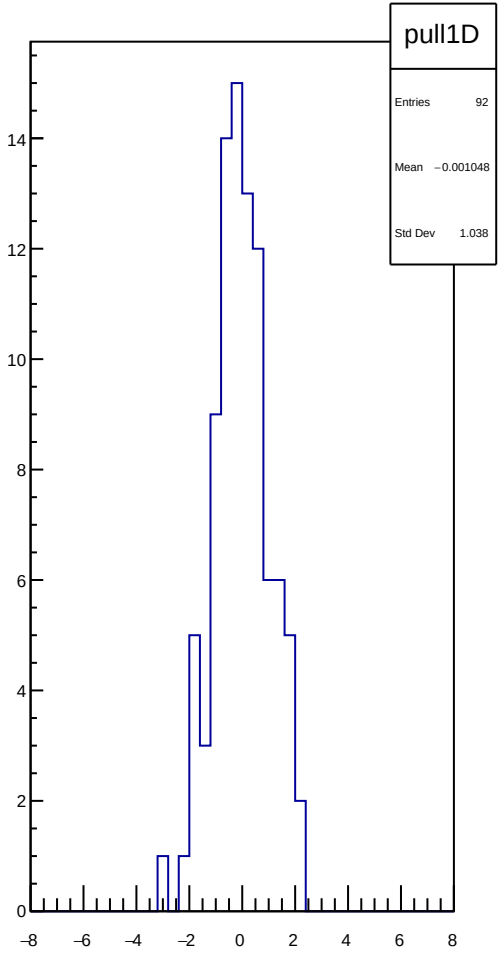

eigen_dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 6084 / 91
p0 139.7 ± 0.1048
170
160
150
140
130
120

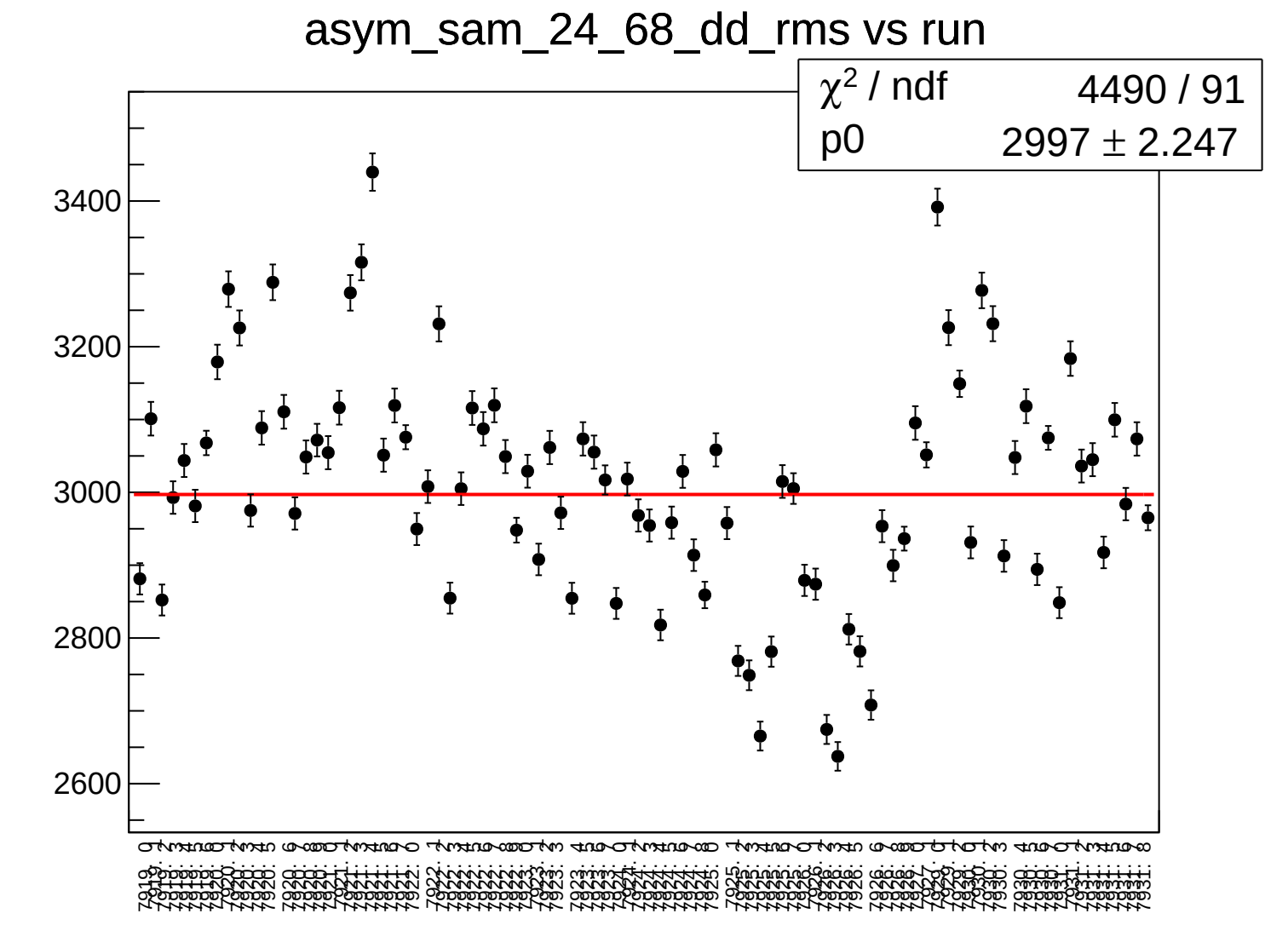

asym_sam_24_68_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 100.7 / 91
p0 −5546 ± 3210
100
50
0
−50
−100
pull
Entries 92
Mean −5.368e+04
Std Dev 0
3
2
1
0
−1
−2

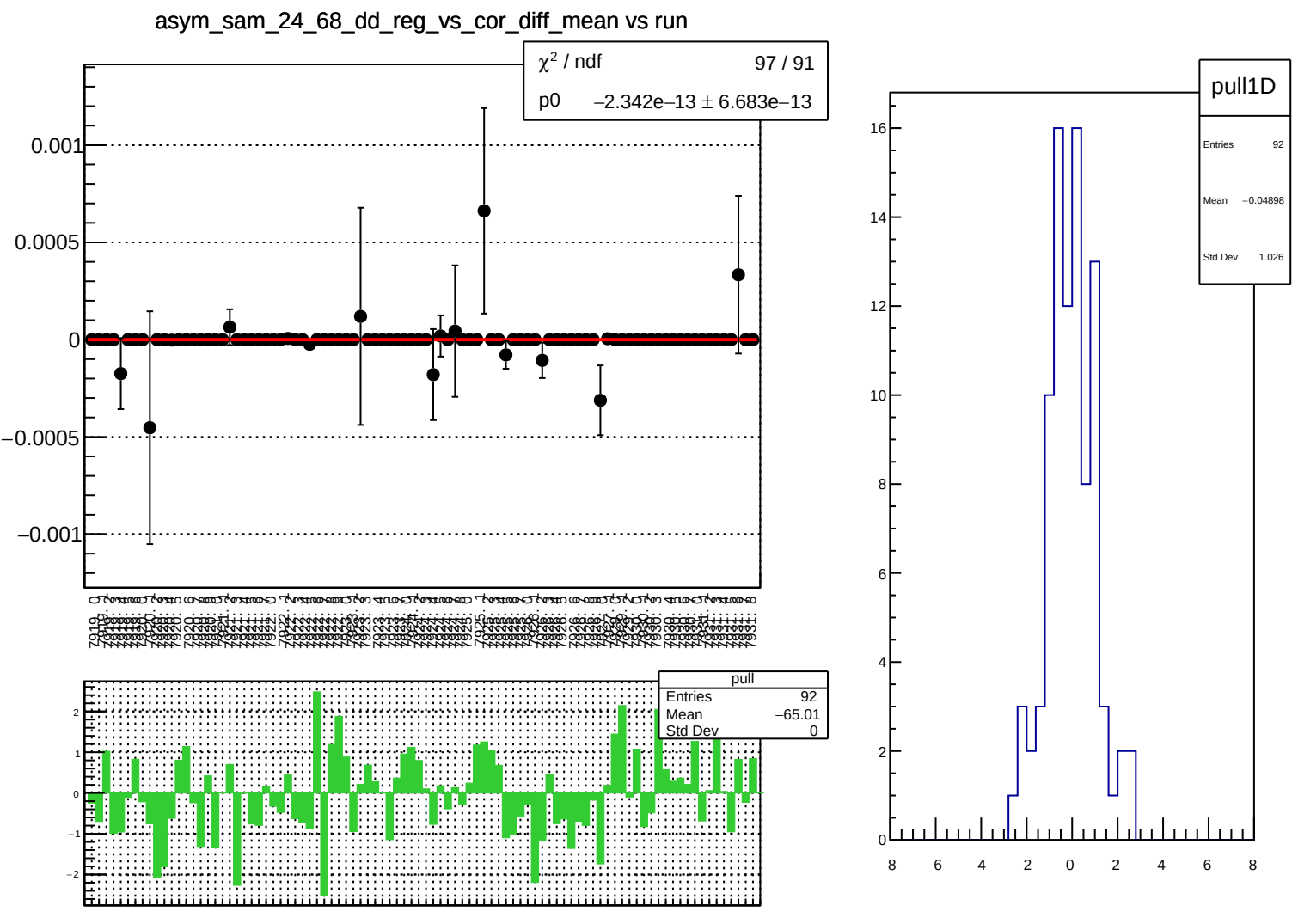

pull1D
Entries 92
Mean −5.322e−05
Std Dev 1.046
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

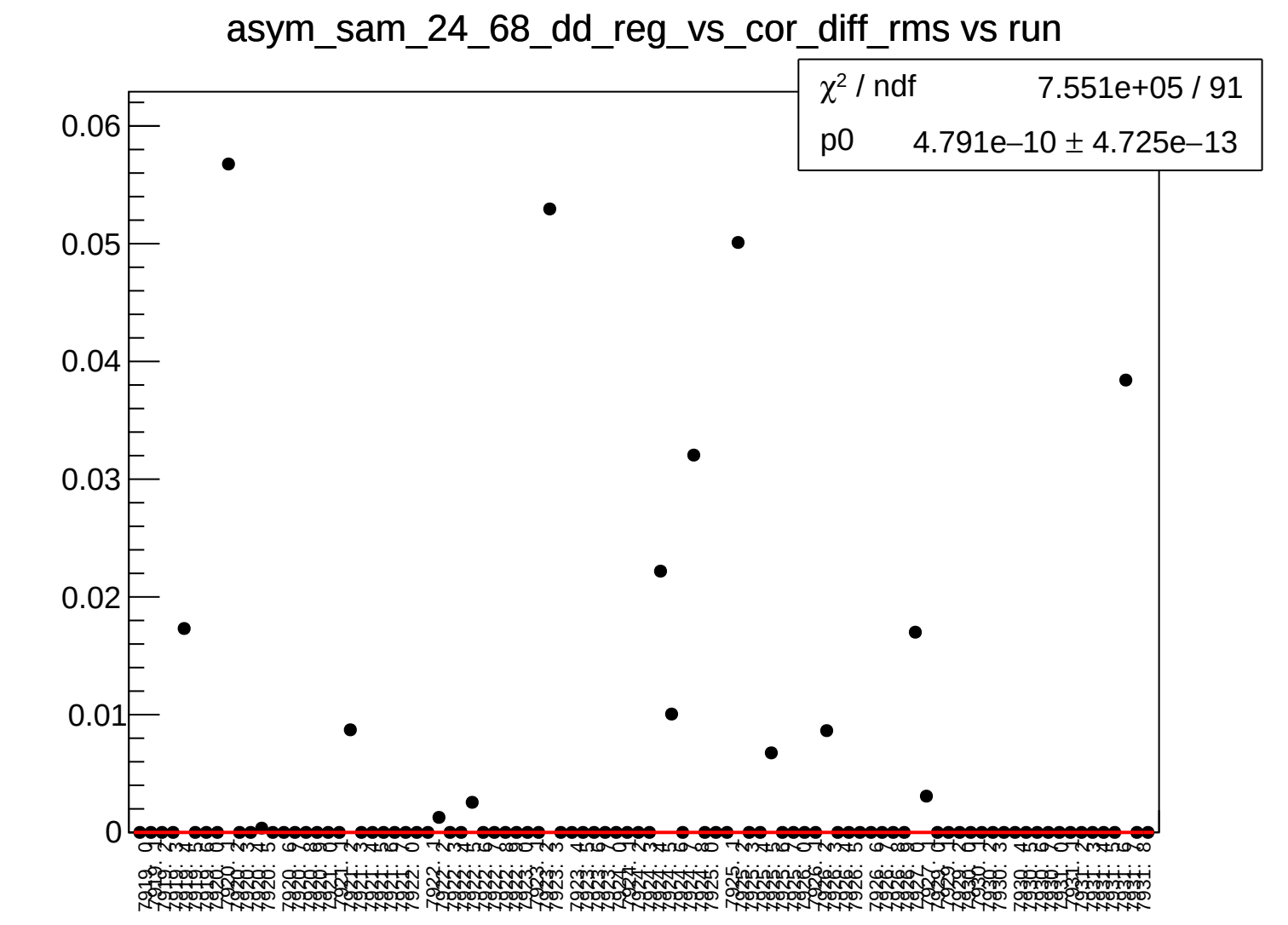

asym_sam_24_68_dd_eigen_dit_correction_rms vs run
χ² / ndf 4499 / 91
p0 3027 ± 2.27
3400
3200
3000
2800
2600

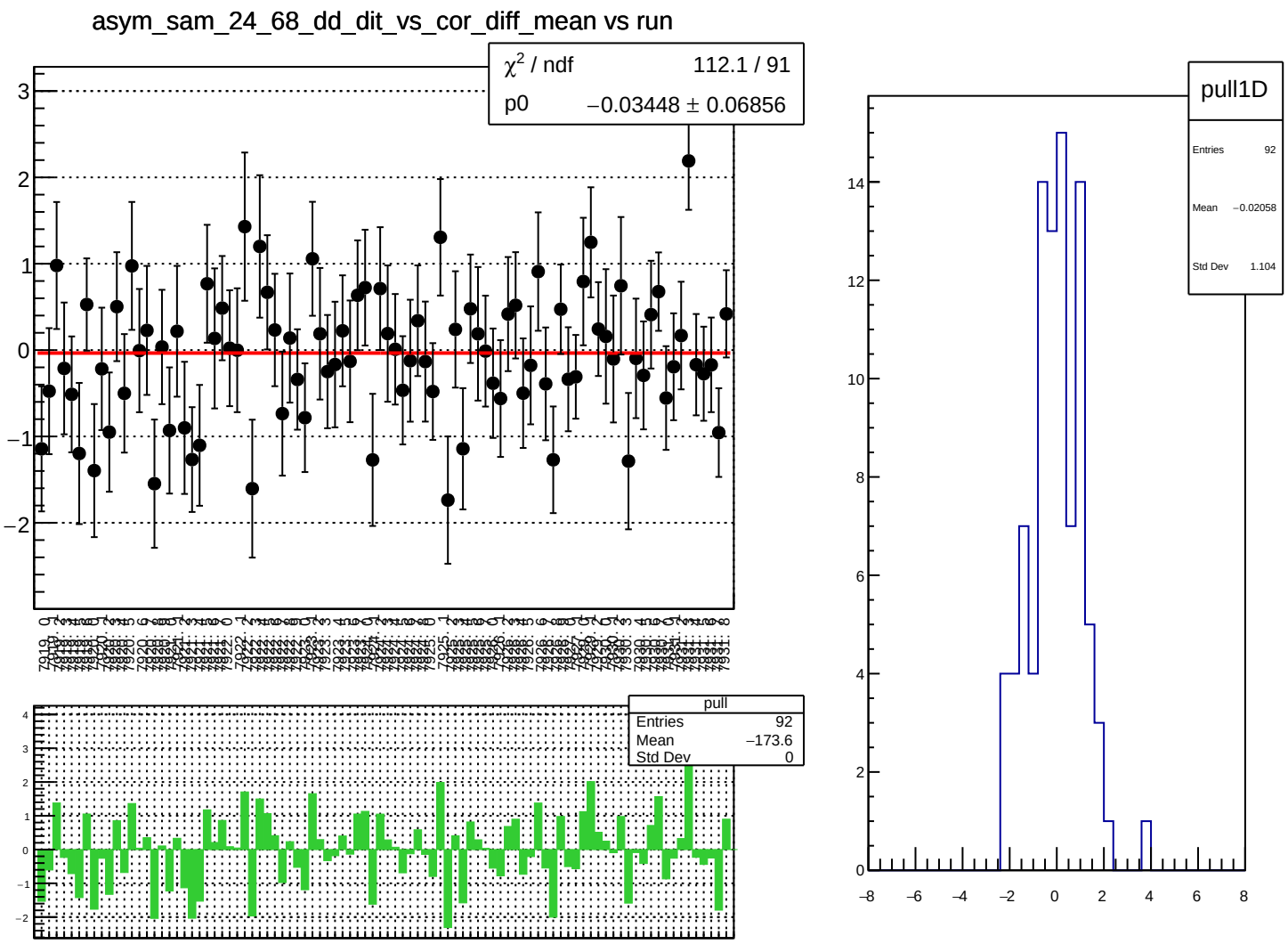

asym_sam_24_68_dd_mean vs run
×10^3
χ^2 / ndf 99.03 / 91
p0 5479 ± 3178
100
50
0
−50
−100
pull
Entries 92
Mean 2727
Std Dev 0
2
1
0
−1
−2
−3

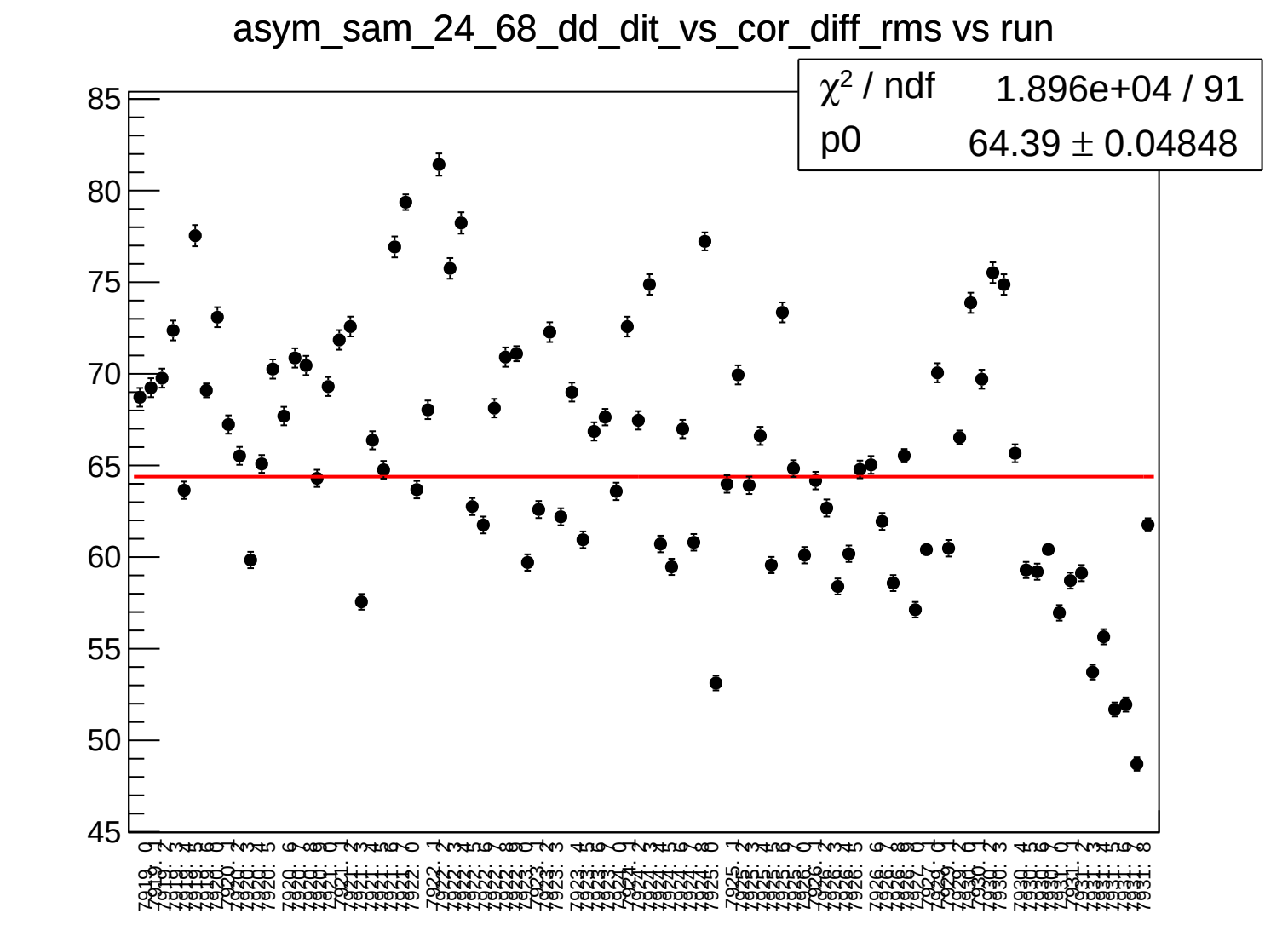

pull1D
Entries 92
Mean −0.001048
Std Dev 1.038
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_24_68_dd_rms vs run
χ² / ndf 4490 / 91
p0 2997 ± 2.247
3400
3200
3000
2800
2600

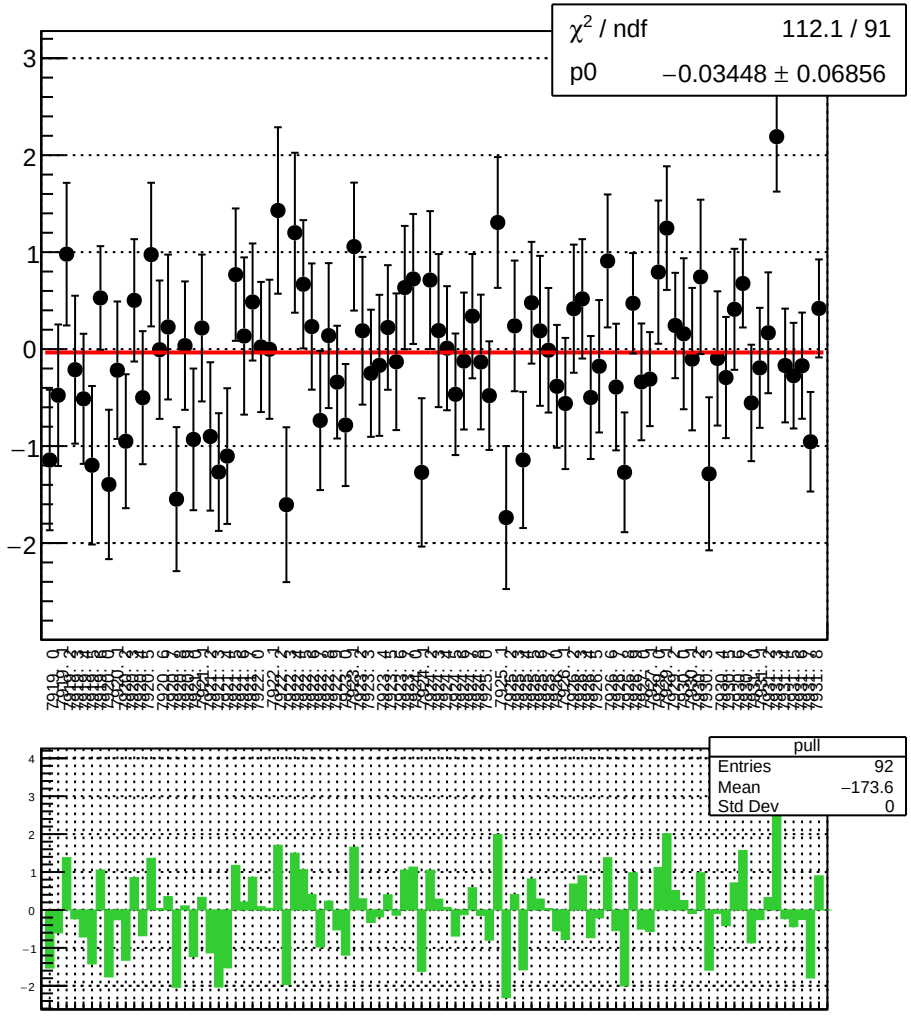

asym_sam_24_68_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 97 / 91
p0 −2.342e−13 ± 6.683e−13
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 92
Mean −65.01
Std Dev 0
pull1D
Entries 92
Mean −0.04898
Std Dev 1.026

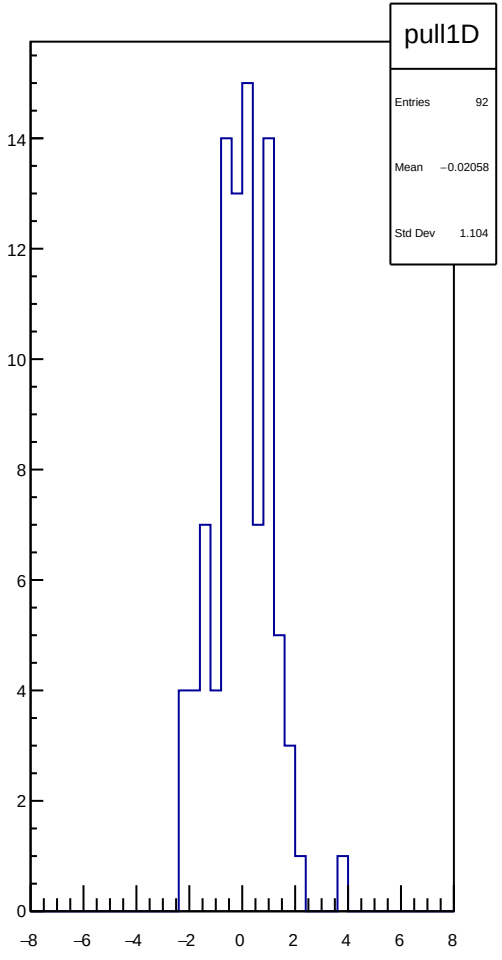

asym_sam_24_68_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.551e+05 / 91
p0 4.791e−10 ± 4.725e−13
0.06
0.05
0.04
0.03
0.02
0.01
0

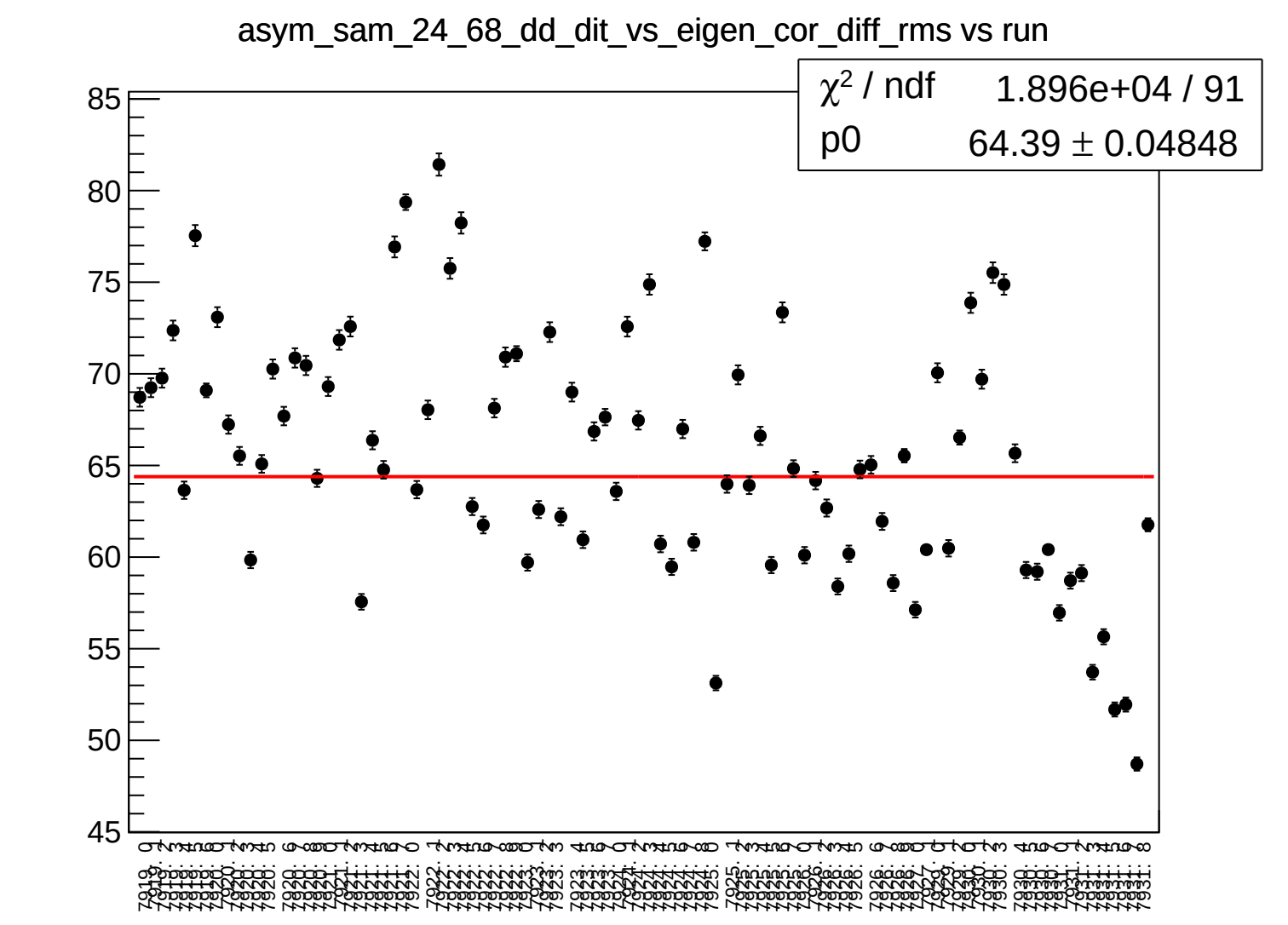

asym_sam_24_68_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 112.1 / 91
p0 −0.03448 ± 0.06856
pull
Entries 92
Mean −173.6
Std Dev 0
pull1D
Entries 92
Mean −0.02058
Std Dev 1.104

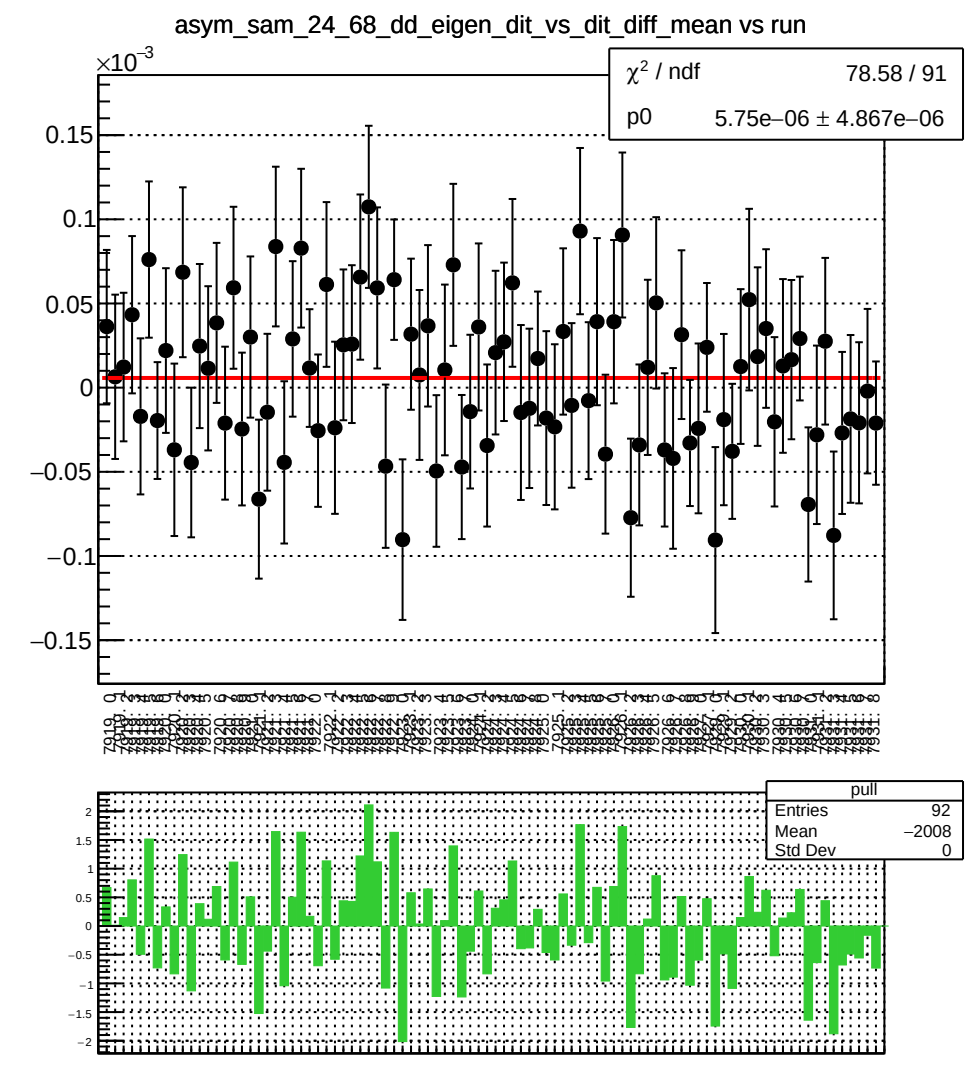

asym_sam_24_68_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.896e+04 / 91
p0 64.39 ± 0.04848
85
80
75
70
65
60
55
50
45

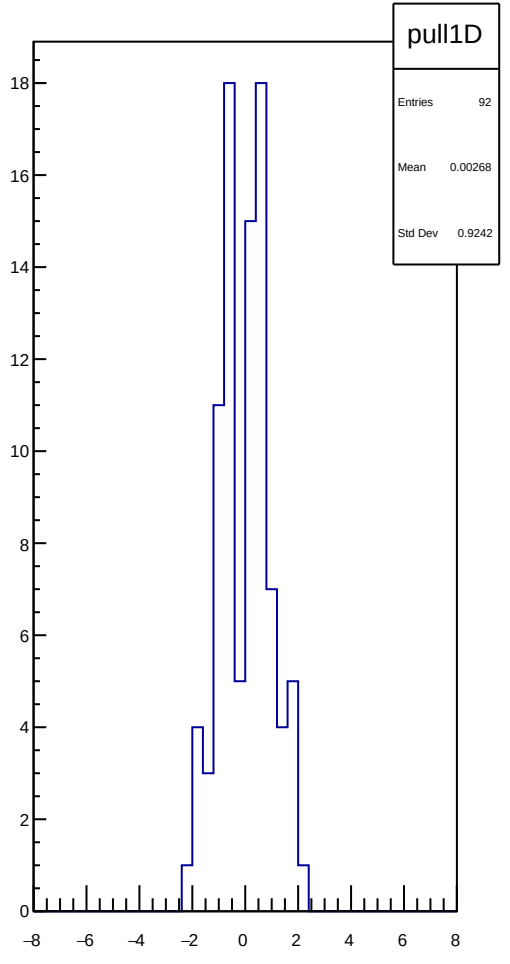
asym_sam_24_68_dd_dit_vs_eigen_cor_diff_mean vs run

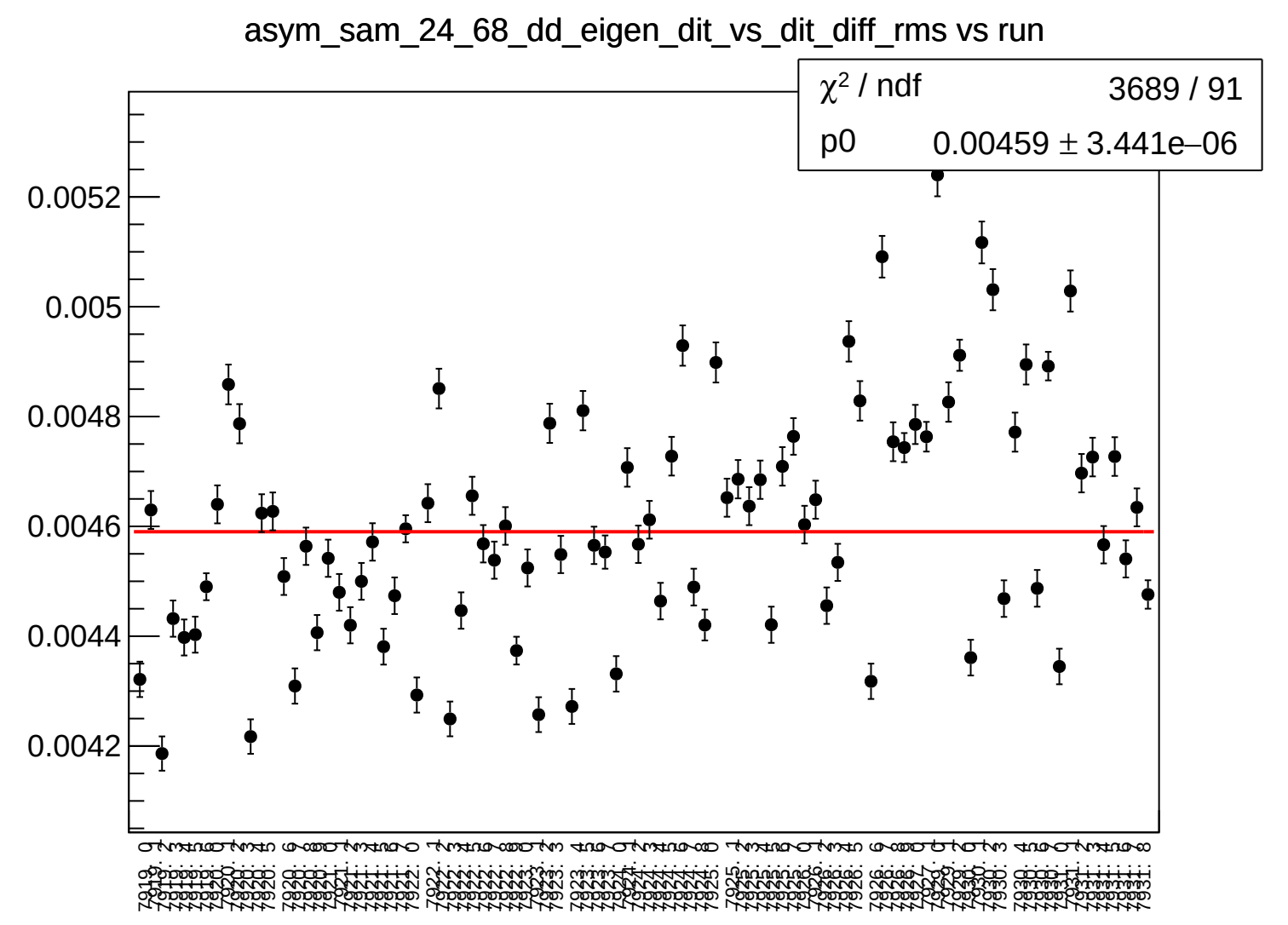


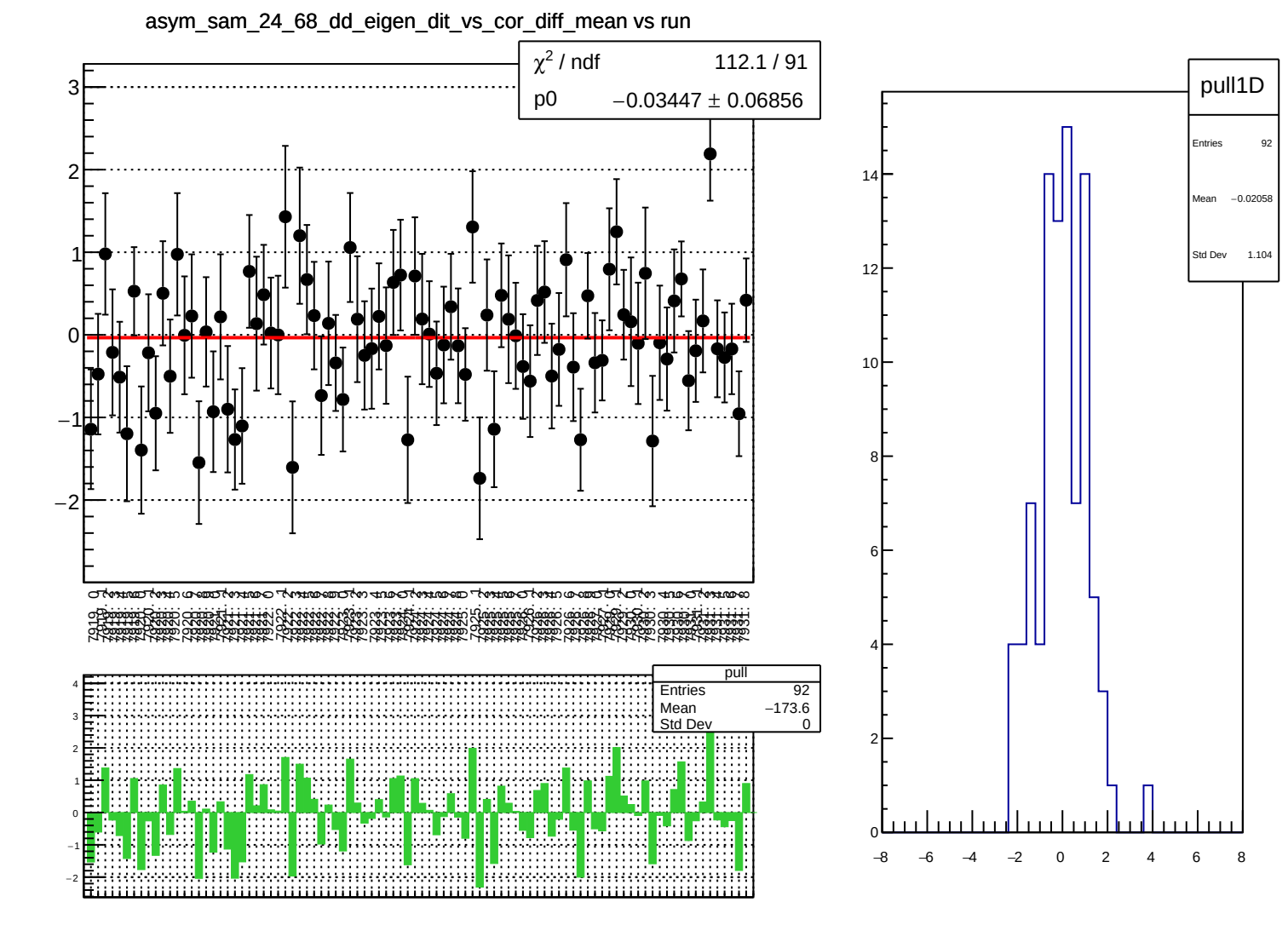


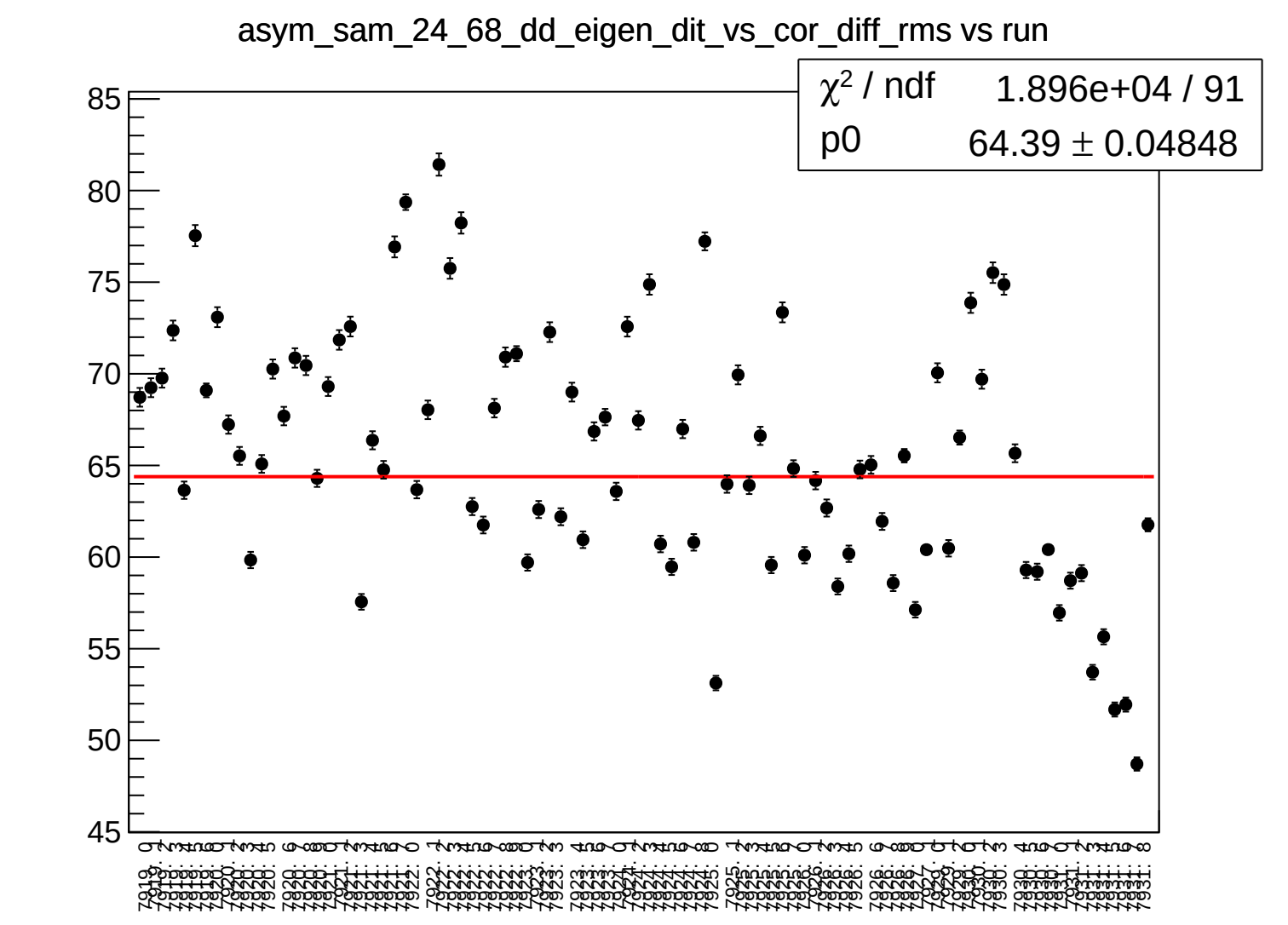

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.896e+04 / 91
p0 64.39 ± 0.04848
85
80
75
70
65
60
55
50
45


asym_sam_24_68_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 78.58 / 91
p0 5.75e−06 ± 4.867e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 92
Mean −2008
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

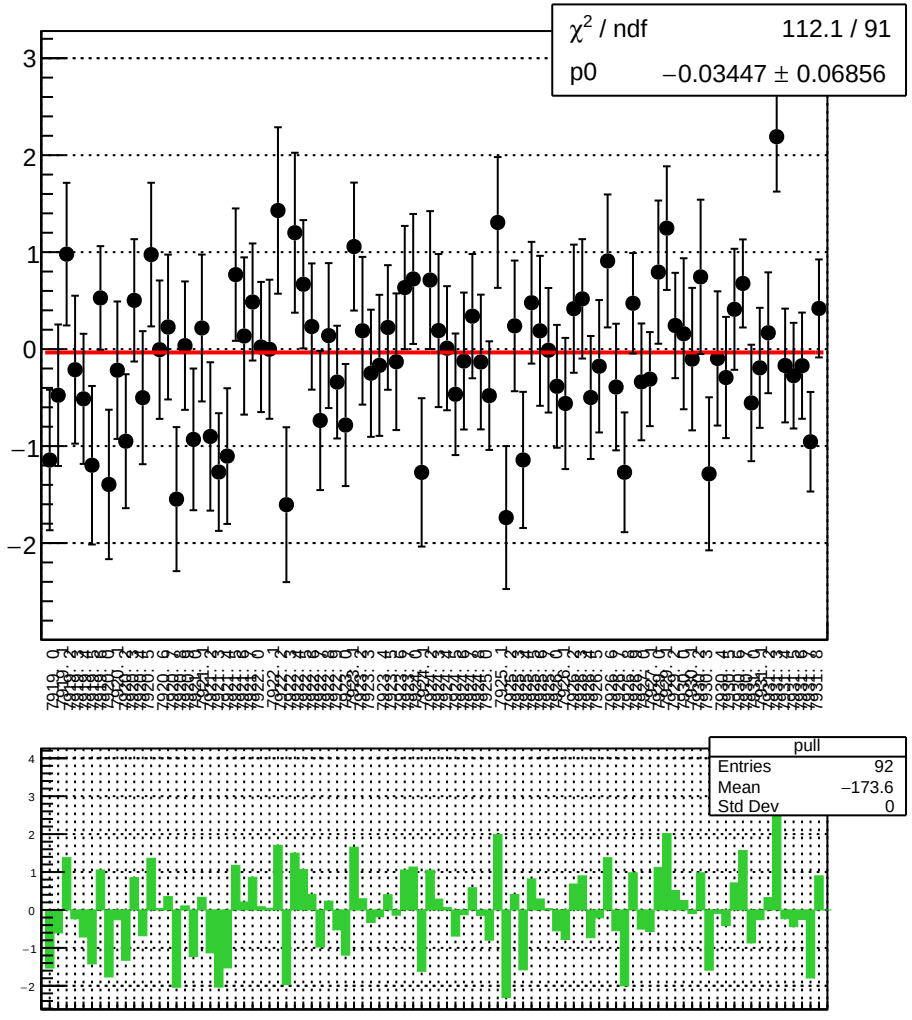

pull1D
Entries 92
Mean 0.00268
Std Dev 0.9242
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

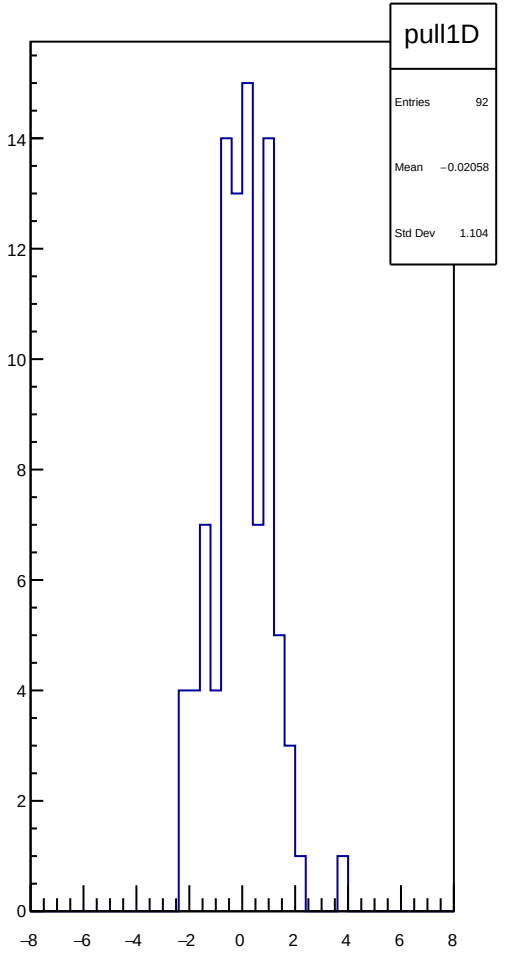

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3689 / 91
p0 0.00459 ± 3.441e−06
0.0052
0.005
0.0048
0.0046
0.0044
0.0042

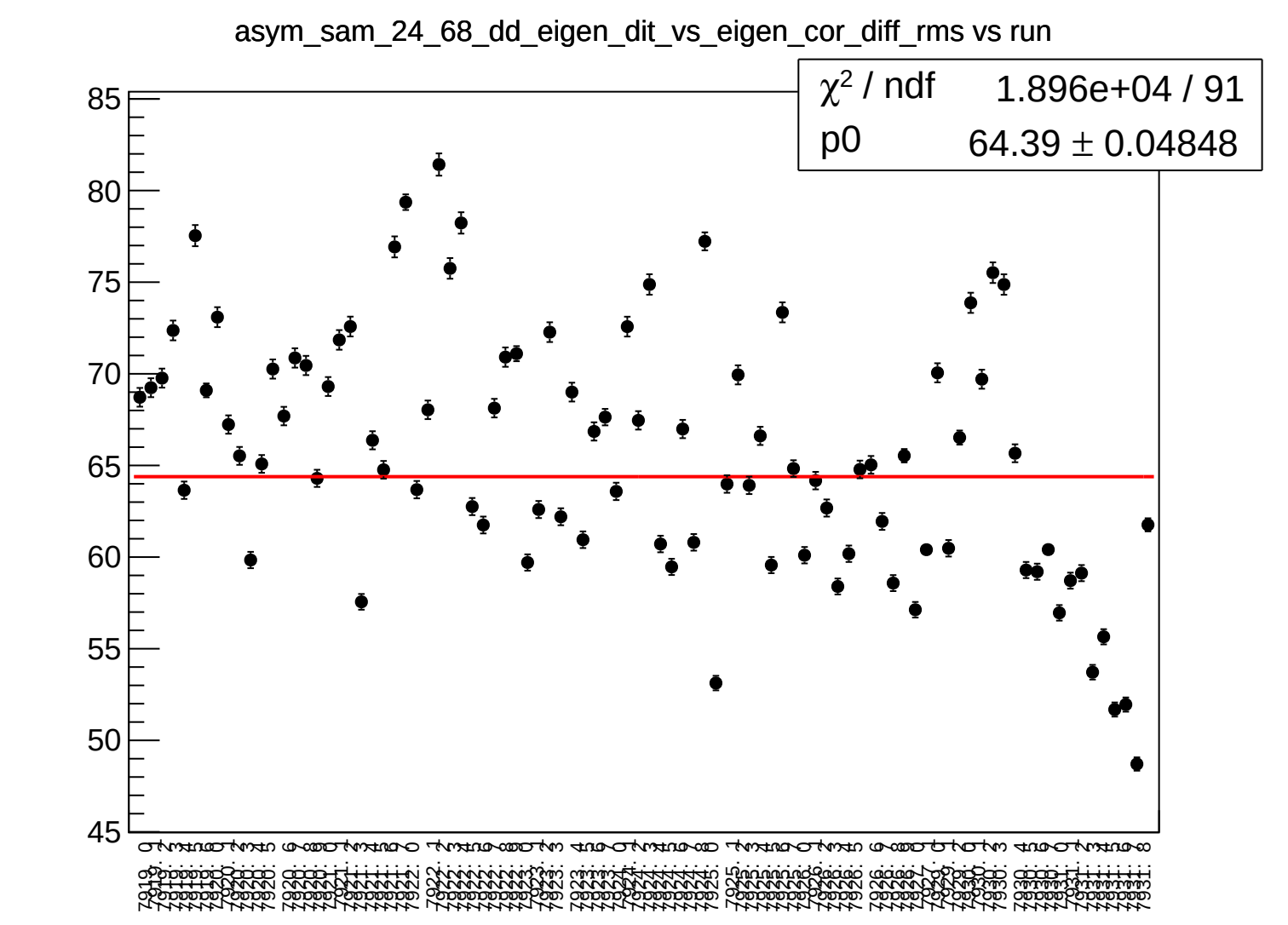

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 112.1 / 91
p0 −0.03447 ± 0.06856
pull
Entries 92
Mean −173.6
Std Dev 0
pull1D
Entries 92
Mean −0.02058
Std Dev 1.104

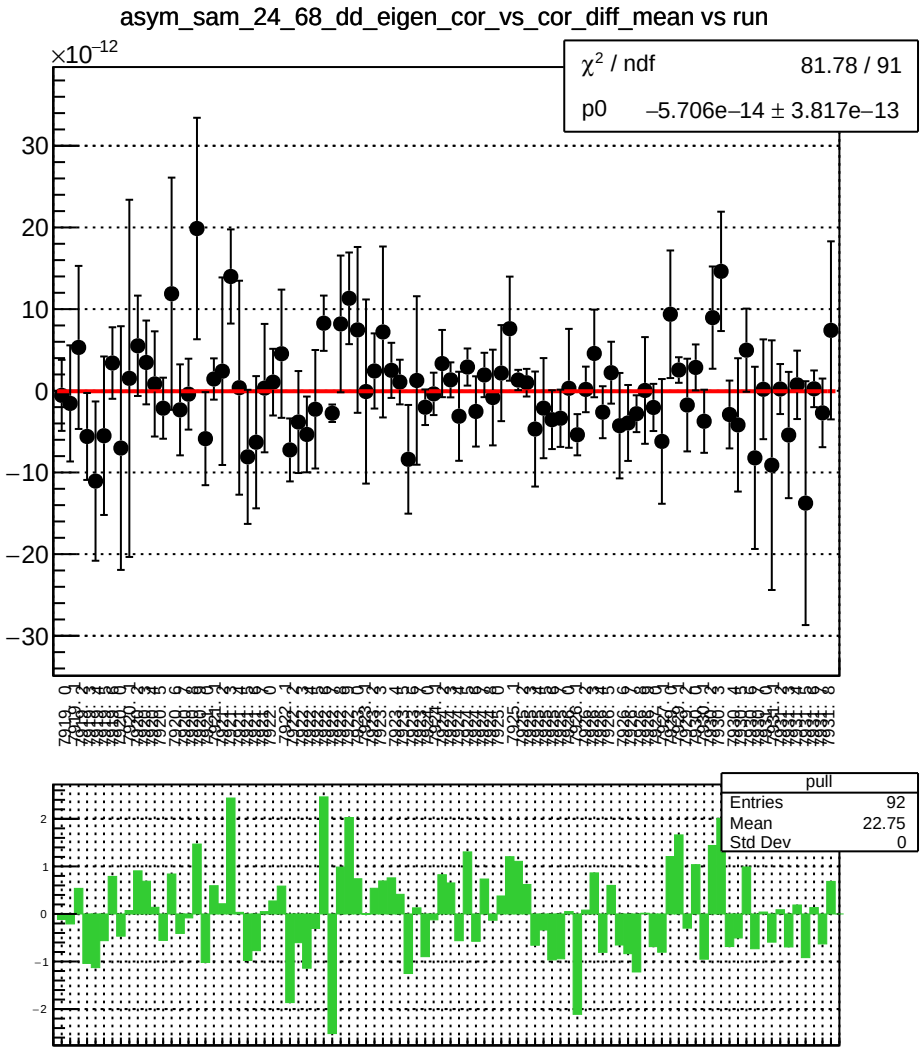

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.896e+04 / 91
p0 64.39 ± 0.04848
85
80
75
70
65
60
55
50
45

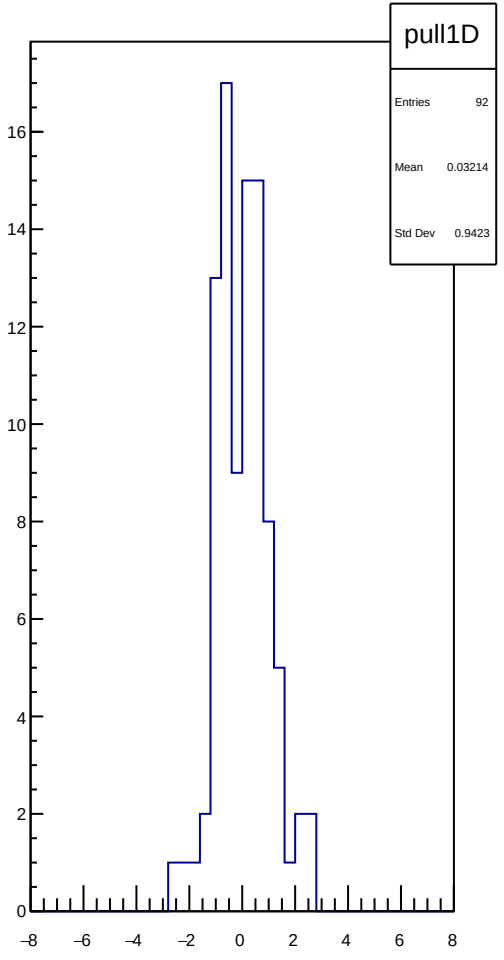
asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

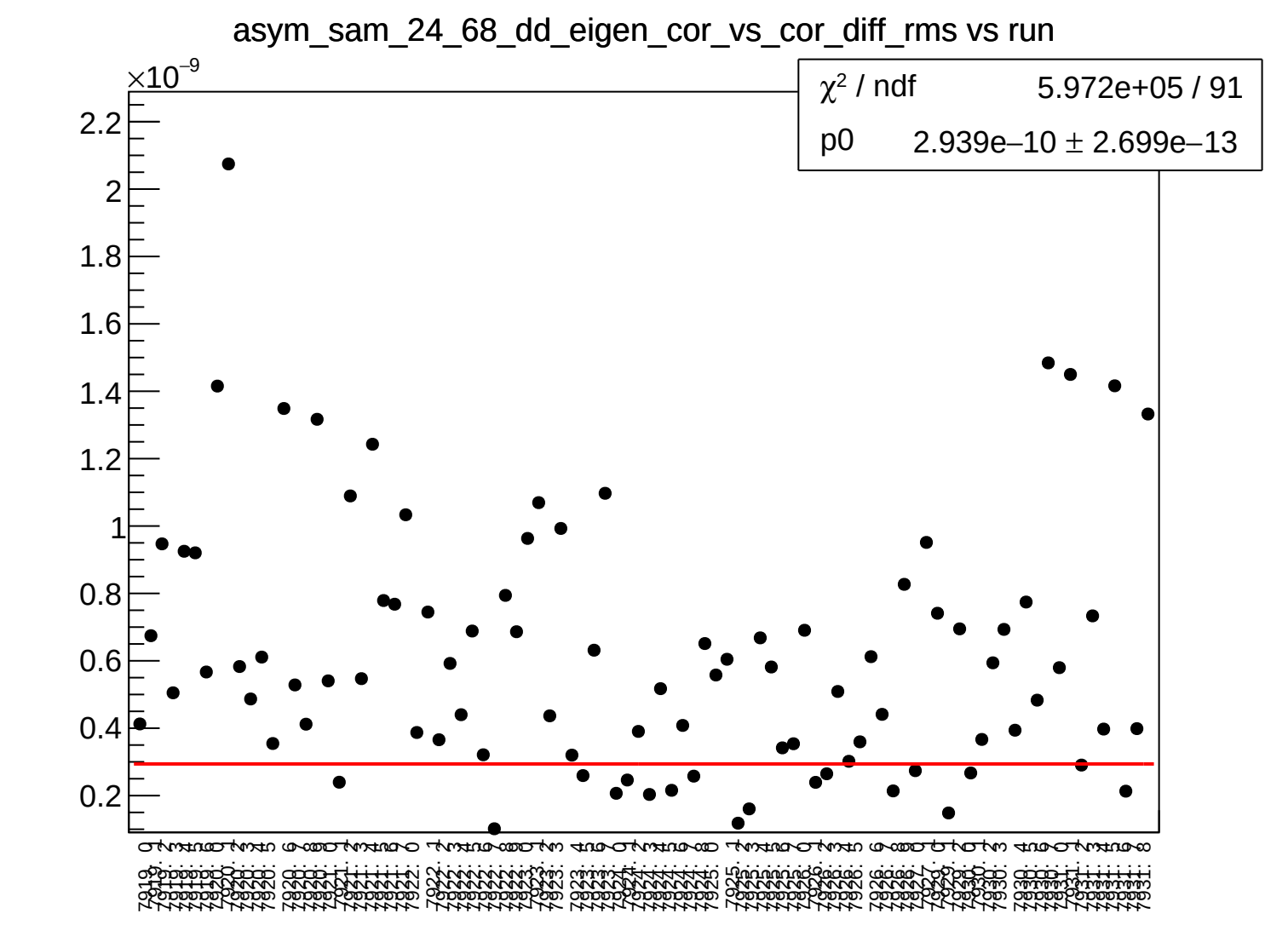


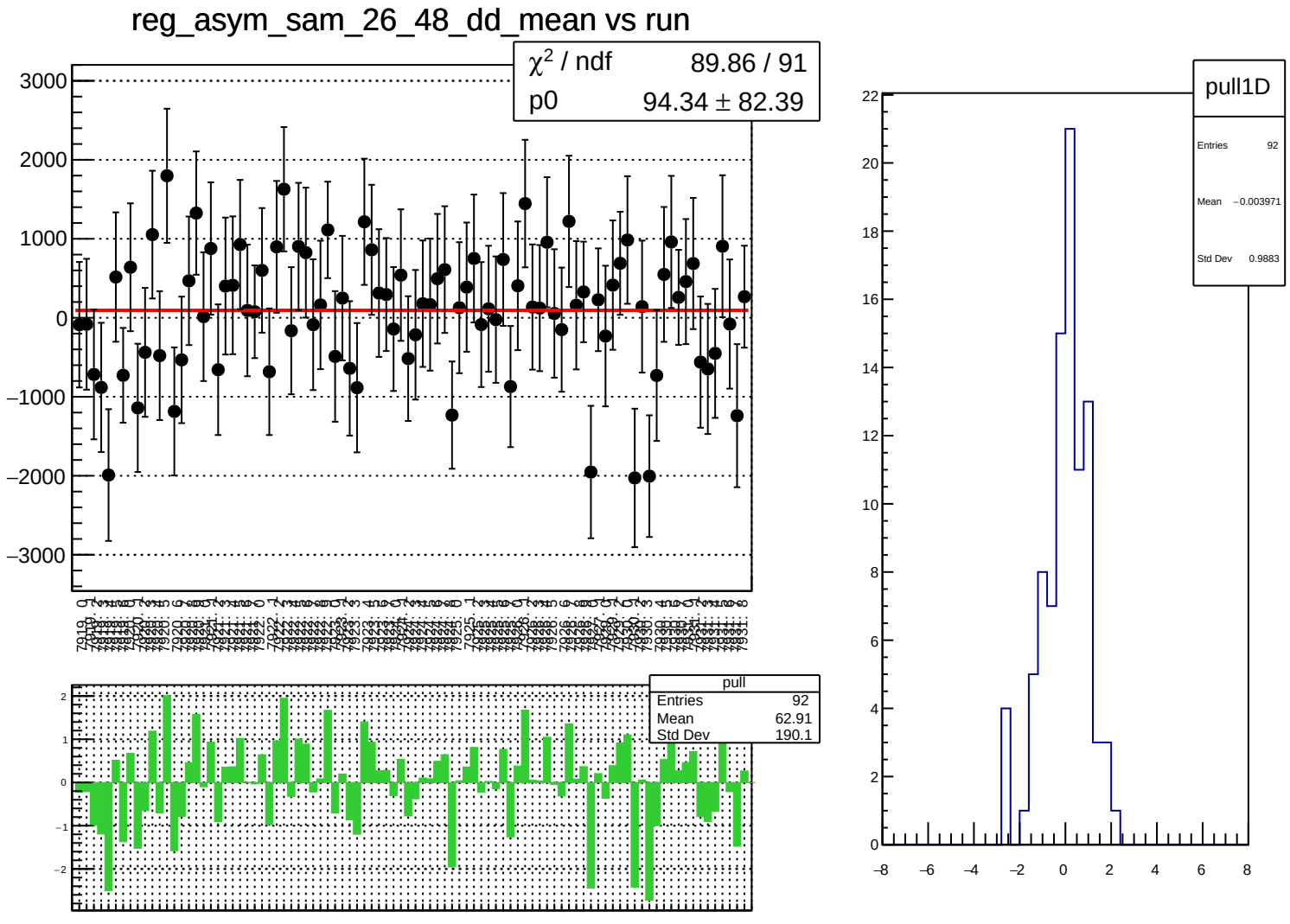


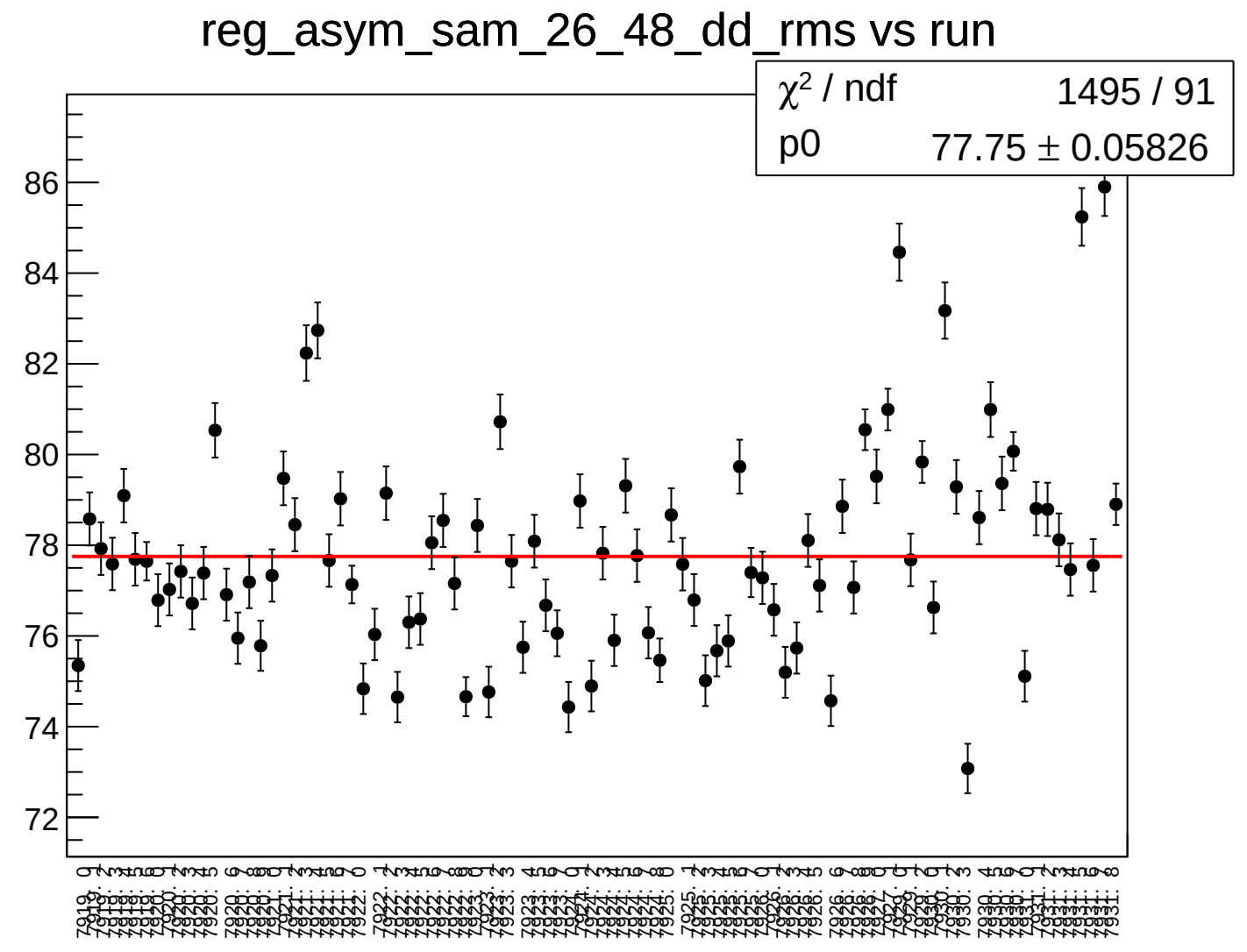

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.896e+04 / 91
p0 64.39 ± 0.04848
85
80
75
70
65
60
55
50
45

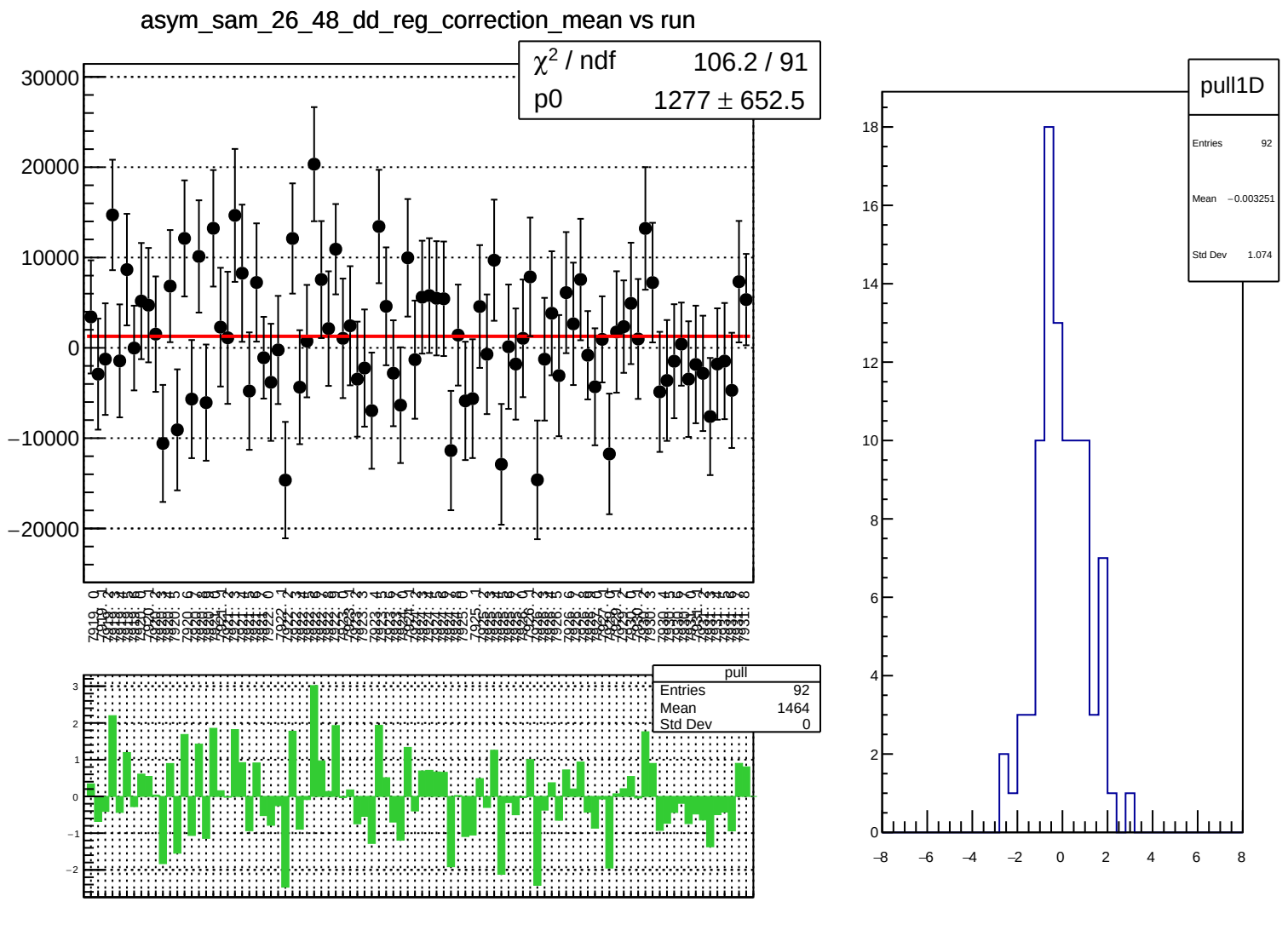

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.78 / 91
p0 −5.706e−14 ± 3.817e−13
pull
Entries 92
Mean 22.75
Std Dev 0

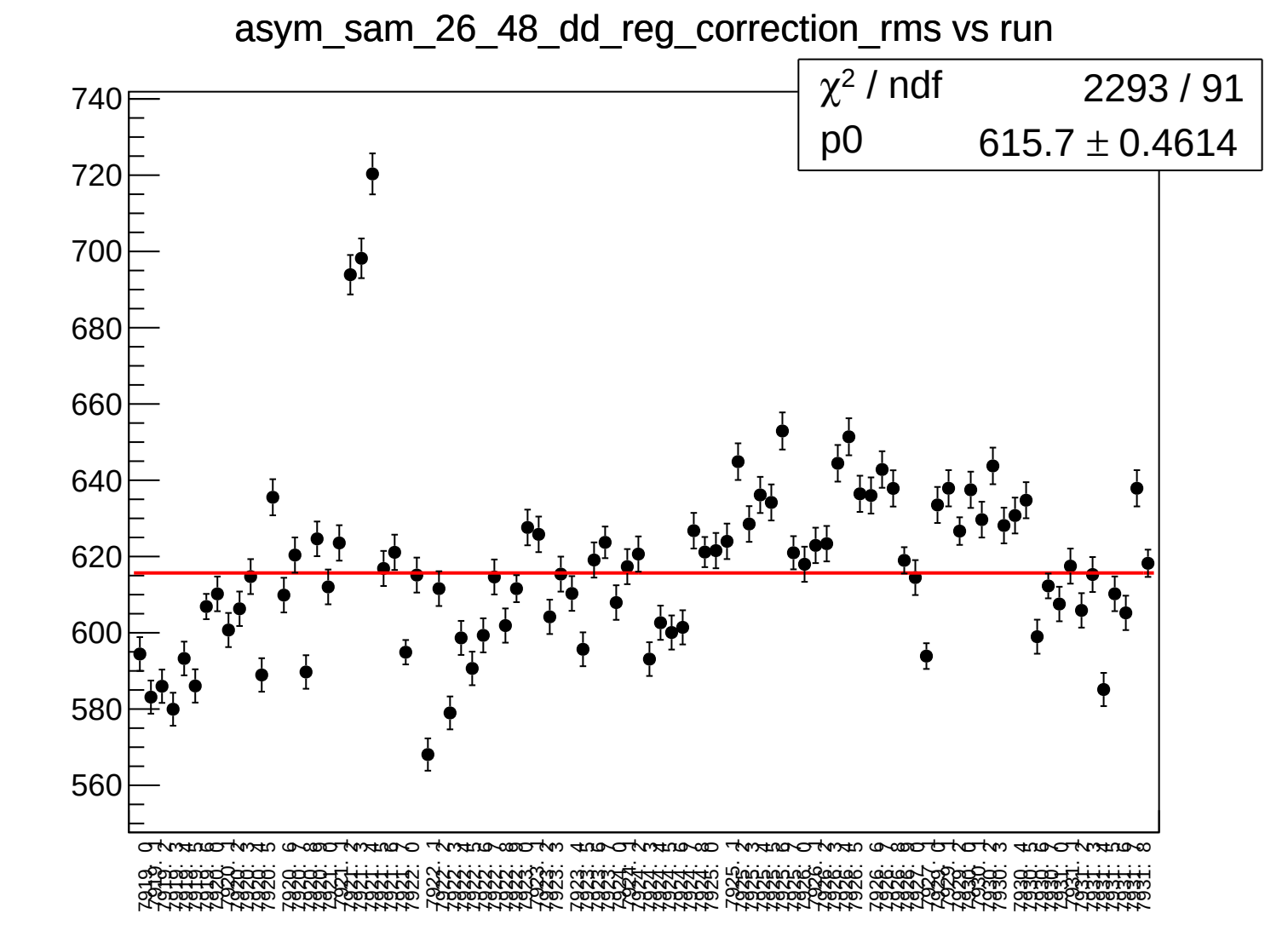

pull1D
Entries 92
Mean 0.03214
Std Dev 0.9423

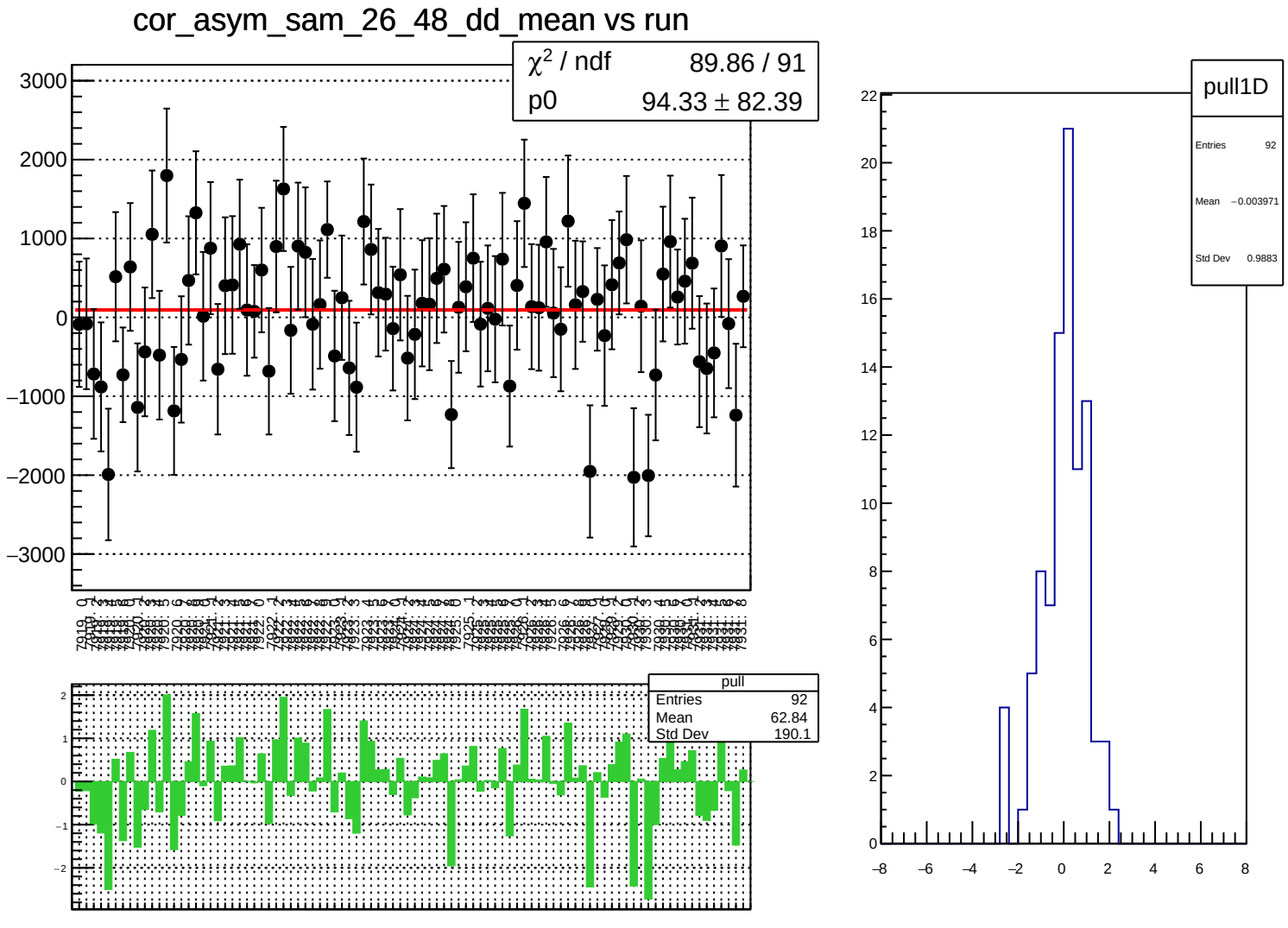

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.972e+05 / 91
p0 2.939e−10 ± 2.699e−13
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

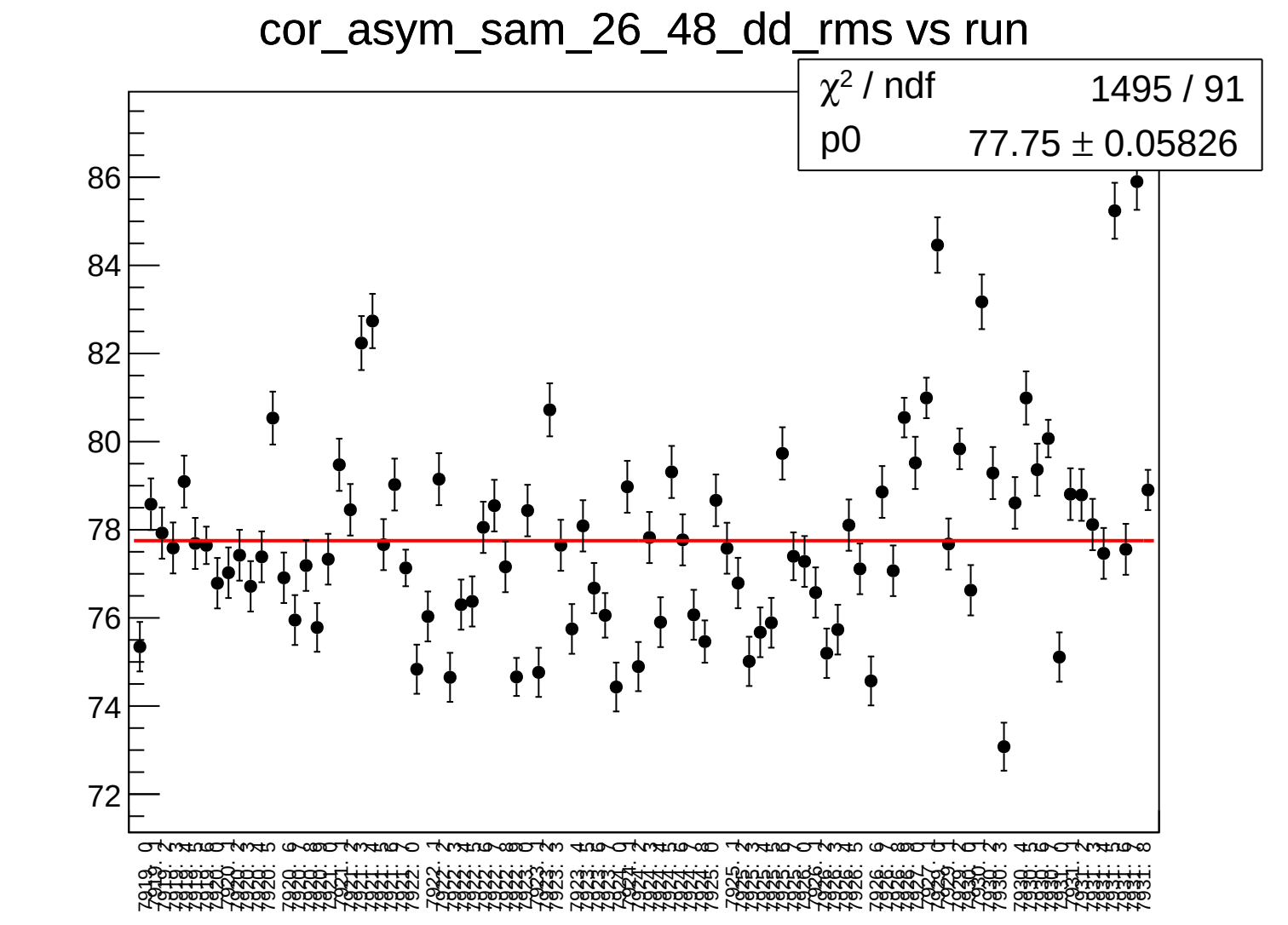

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 89.86 / 91
p0 94.34 ± 82.39
pull
Entries 92
Mean 62.91
Std Dev 190.1
pull1D
Entries 92
Mean −0.003971
Std Dev 0.9883

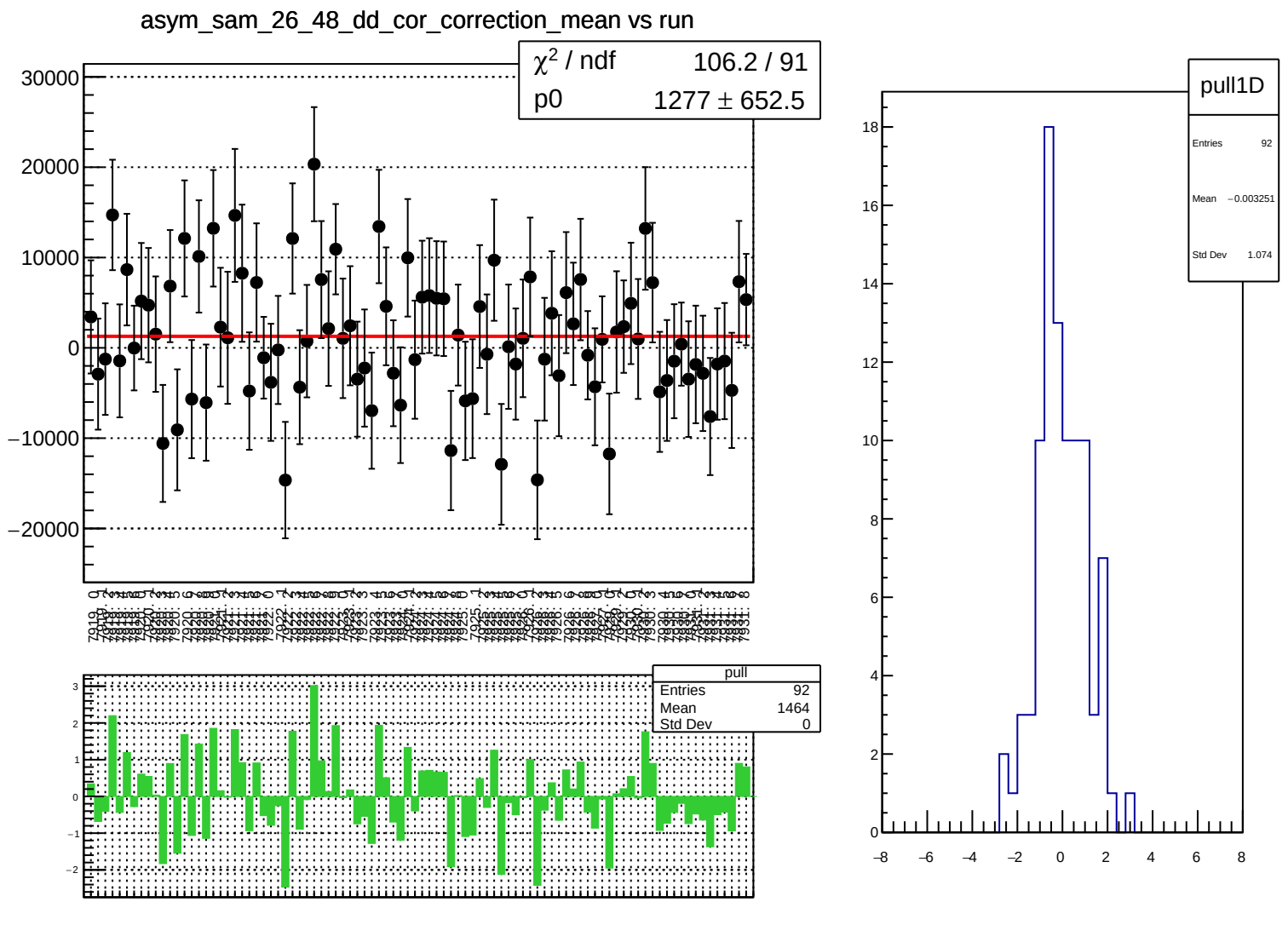

reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 1495 / 91
p0 77.75 ± 0.05826
86
84
82
80
78
76
74
72

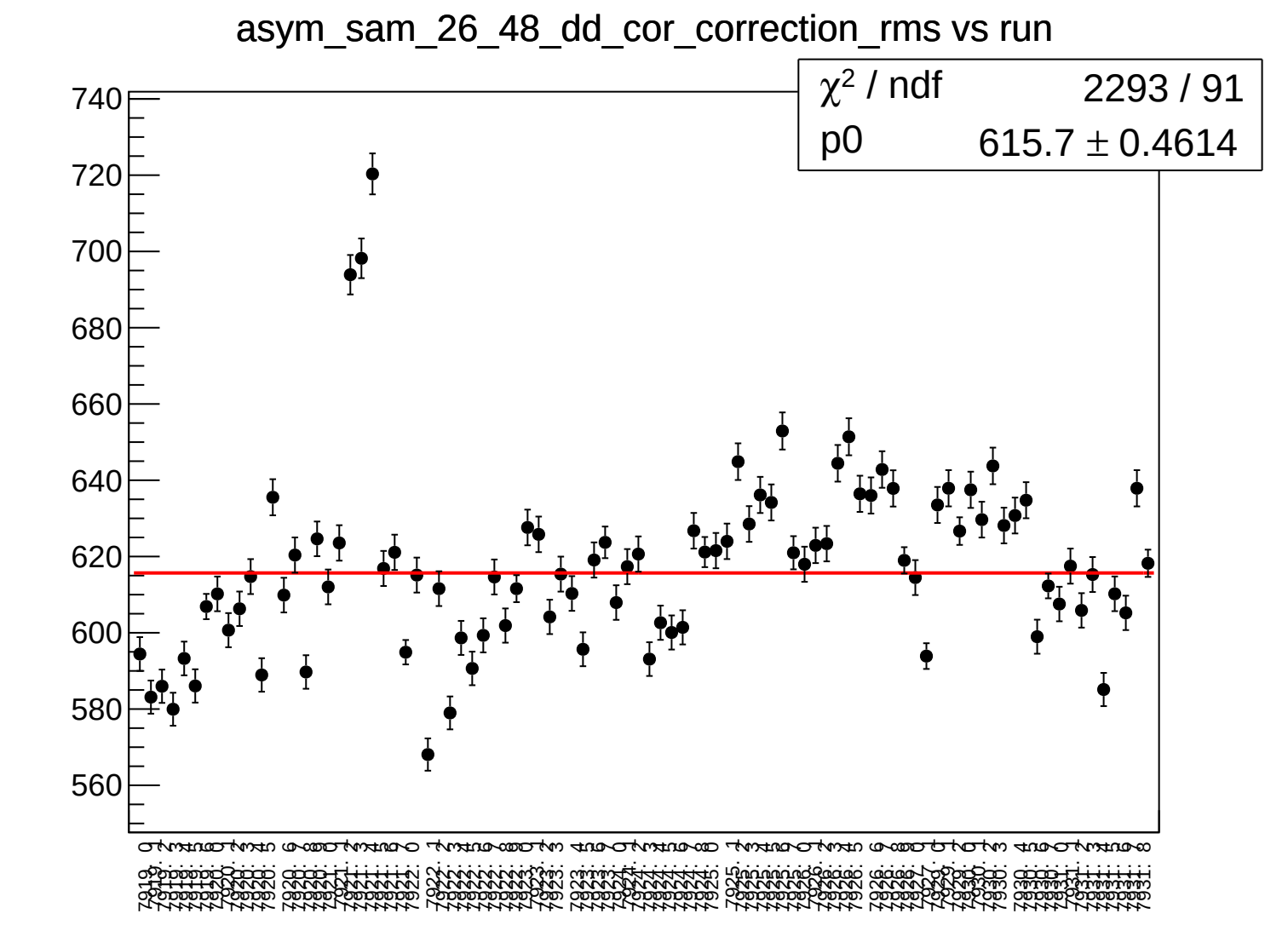

asym_sam_26_48_dd_reg_correction_mean vs run
χ² / ndf 106.2 / 91
p0 1277 ± 652.5
30000
20000
10000
0
−10000
−20000
pull
Entries 92
Mean 1464
Std Dev 0
pull1D
Entries 92
Mean −0.003251
Std Dev 1.074

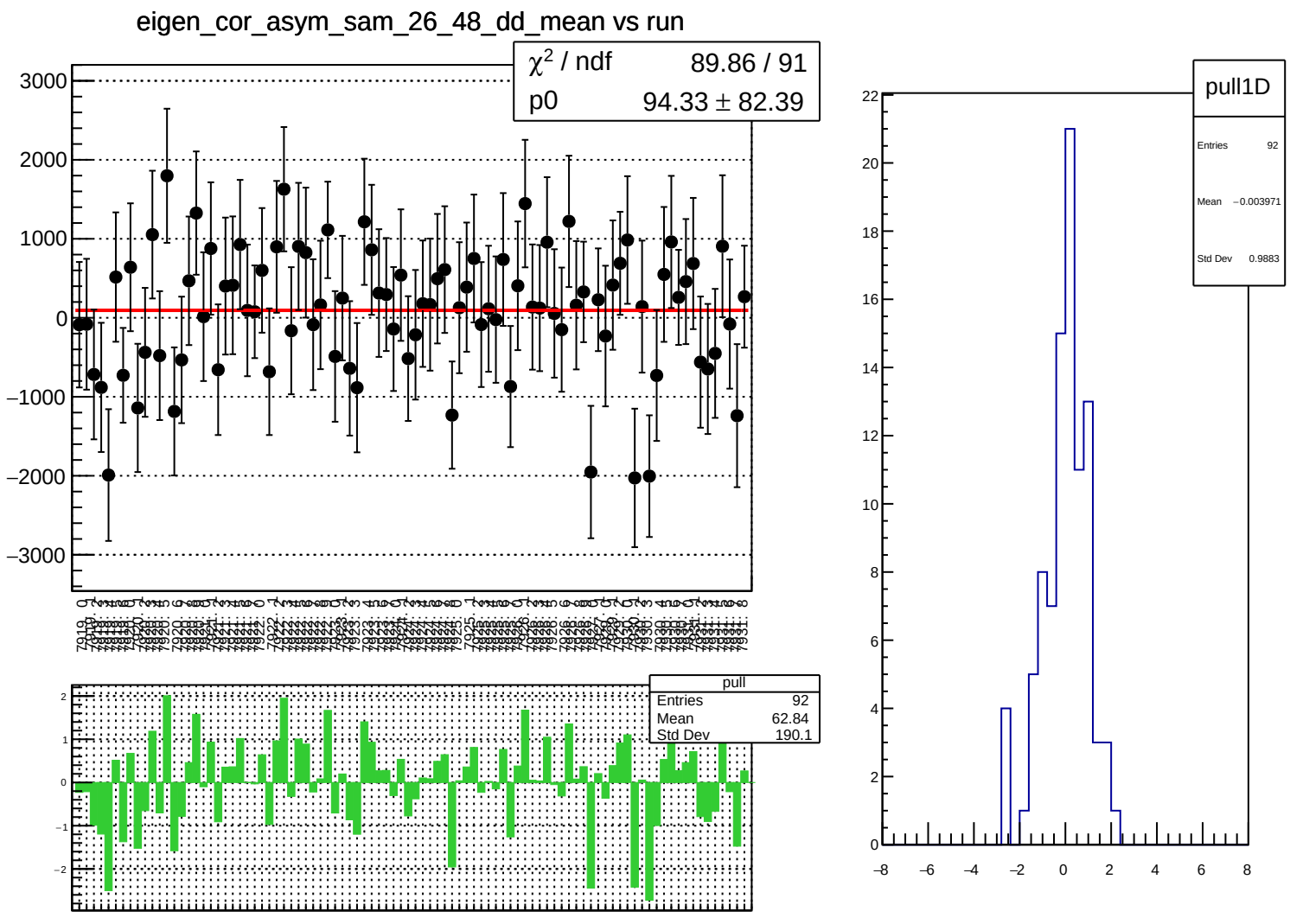

asym_sam_26_48_dd_reg_correction_rms vs run
χ² / ndf 2293 / 91
p0 615.7 ± 0.4614
740
720
700
680
660
640
620
600
580
560

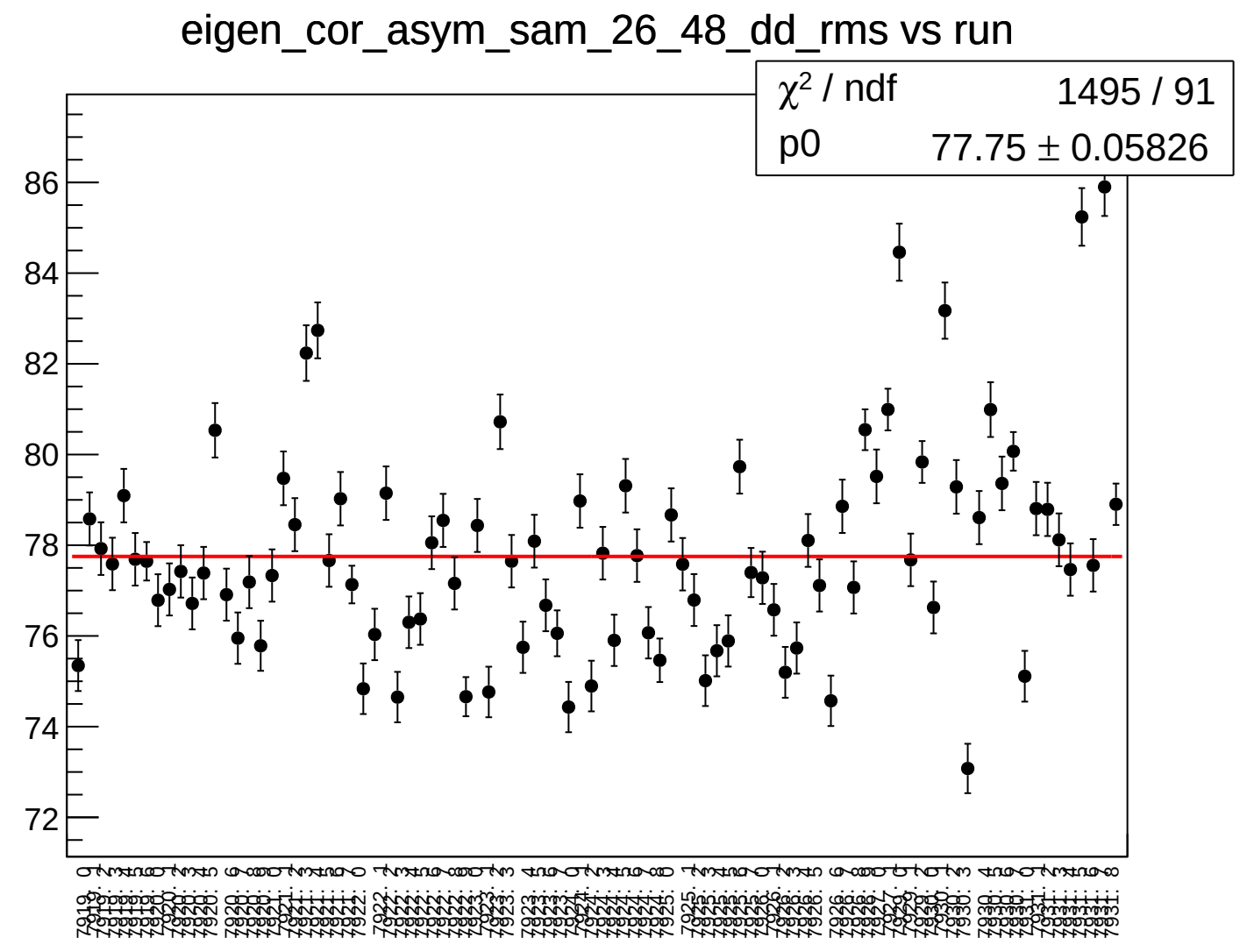

cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 89.86 / 91
p0 94.33 ± 82.39
pull
Entries 92
Mean 62.84
Std Dev 190.1
pull1D
Entries 92
Mean −0.003971
Std Dev 0.9883

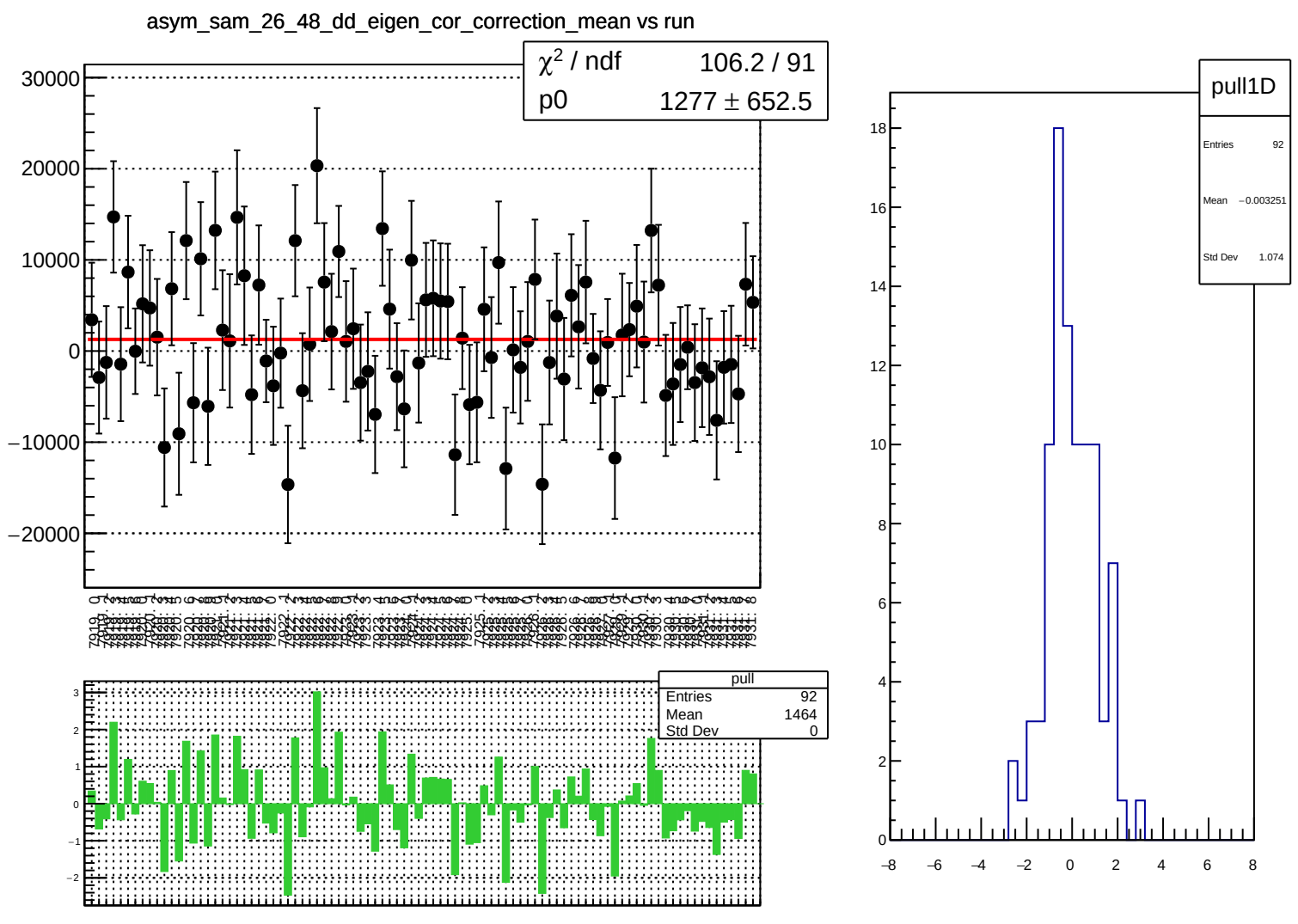

cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 1495 / 91
p0 77.75 ± 0.05826
86
84
82
80
78
76
74
72

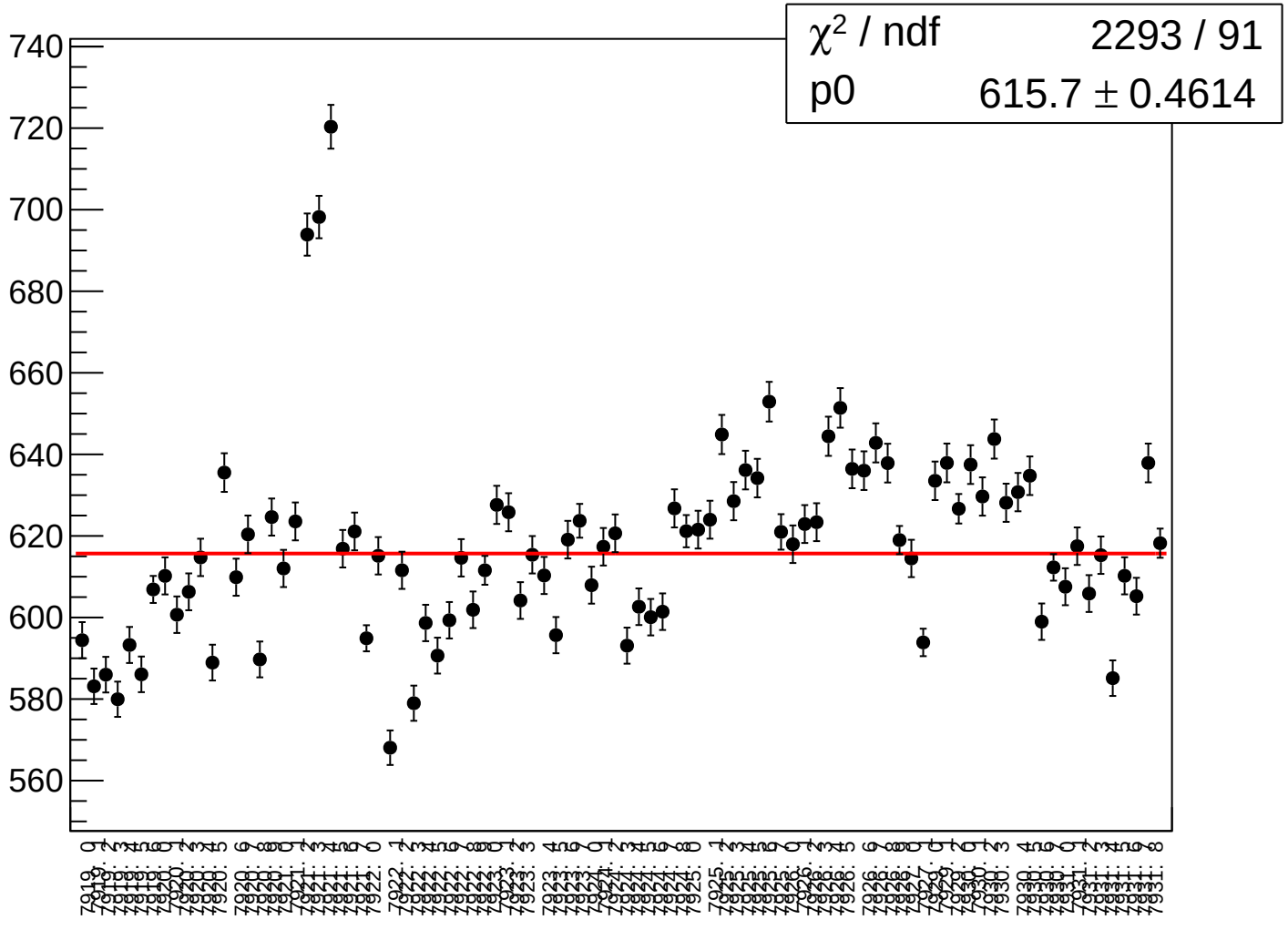

asym_sam_26_48_dd_cor_correction_mean vs run
χ² / ndf 106.2 / 91
p0 1277 ± 652.5
30000
20000
10000
0
−10000
−20000
pull
Entries 92
Mean 1464
Std Dev 0
pull1D
Entries 92
Mean −0.003251
Std Dev 1.074

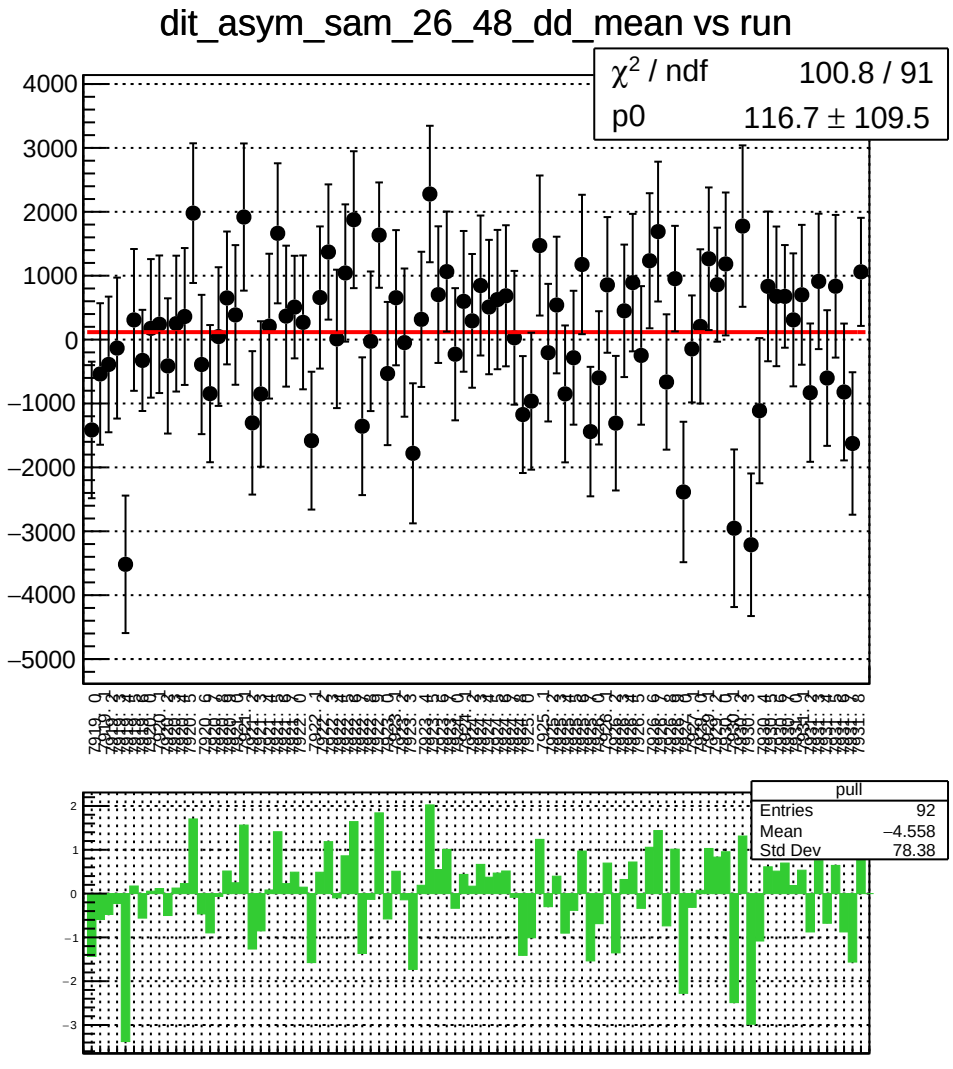

asym_sam_26_48_dd_cor_correction_rms vs run
χ² / ndf 2293 / 91
p0 615.7 ± 0.4614
740
720
700
680
660
640
620
600
580
560

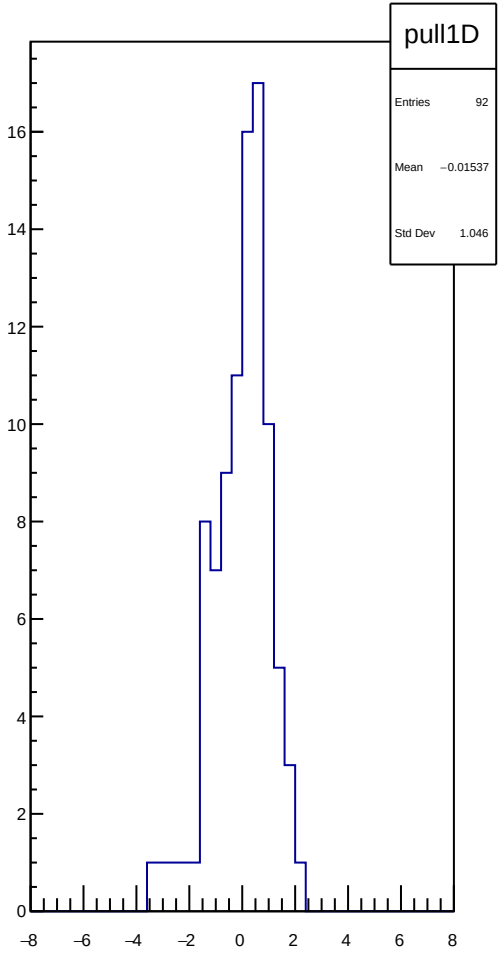

eigen_cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 89.86 / 91
p0 94.33 ± 82.39
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 92
Mean 62.84
Std Dev 190.1
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.003971
Std Dev 0.9883
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

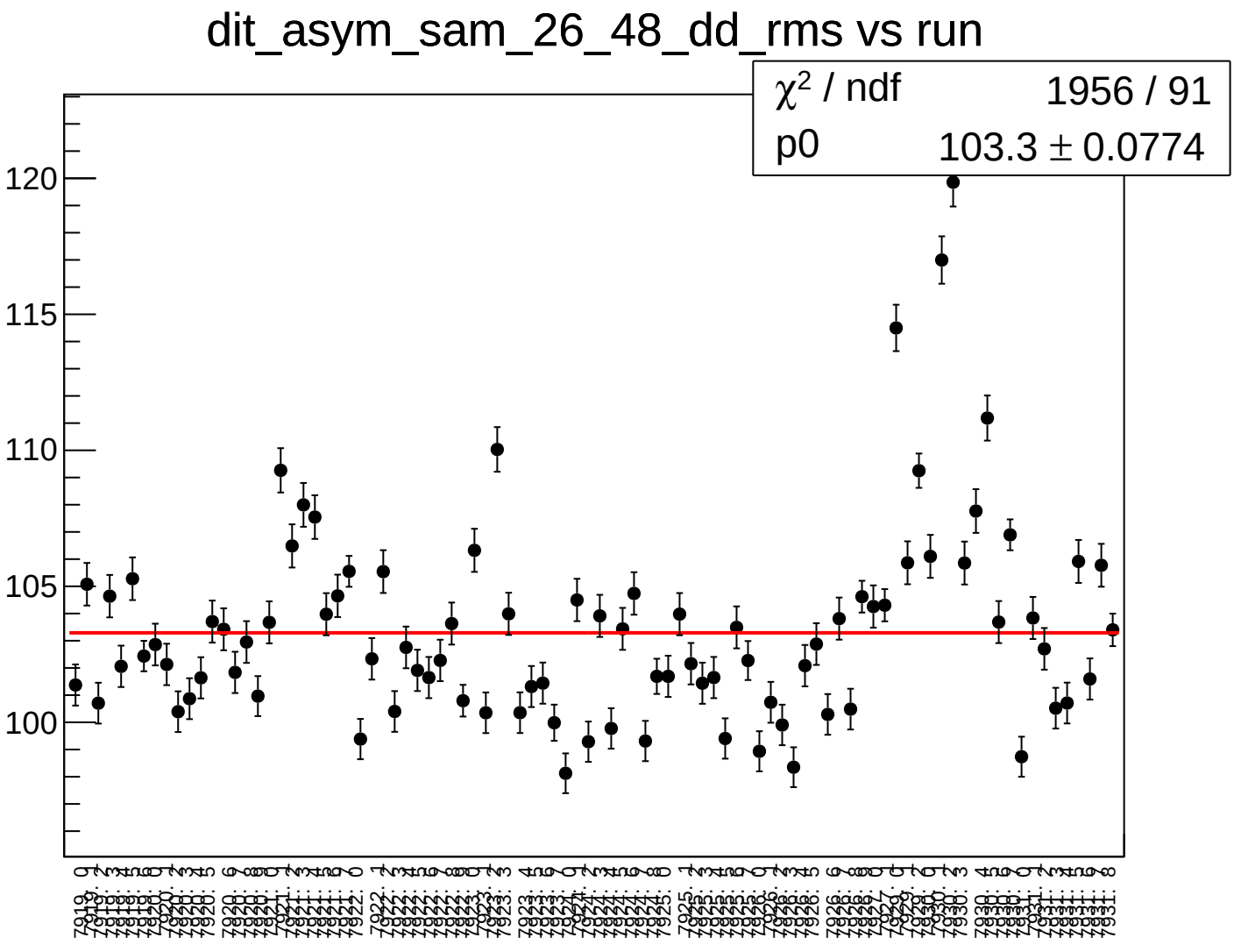

eigen_cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 1495 / 91
p0 77.75 ± 0.05826
86
84
82
80
78
76
74
72

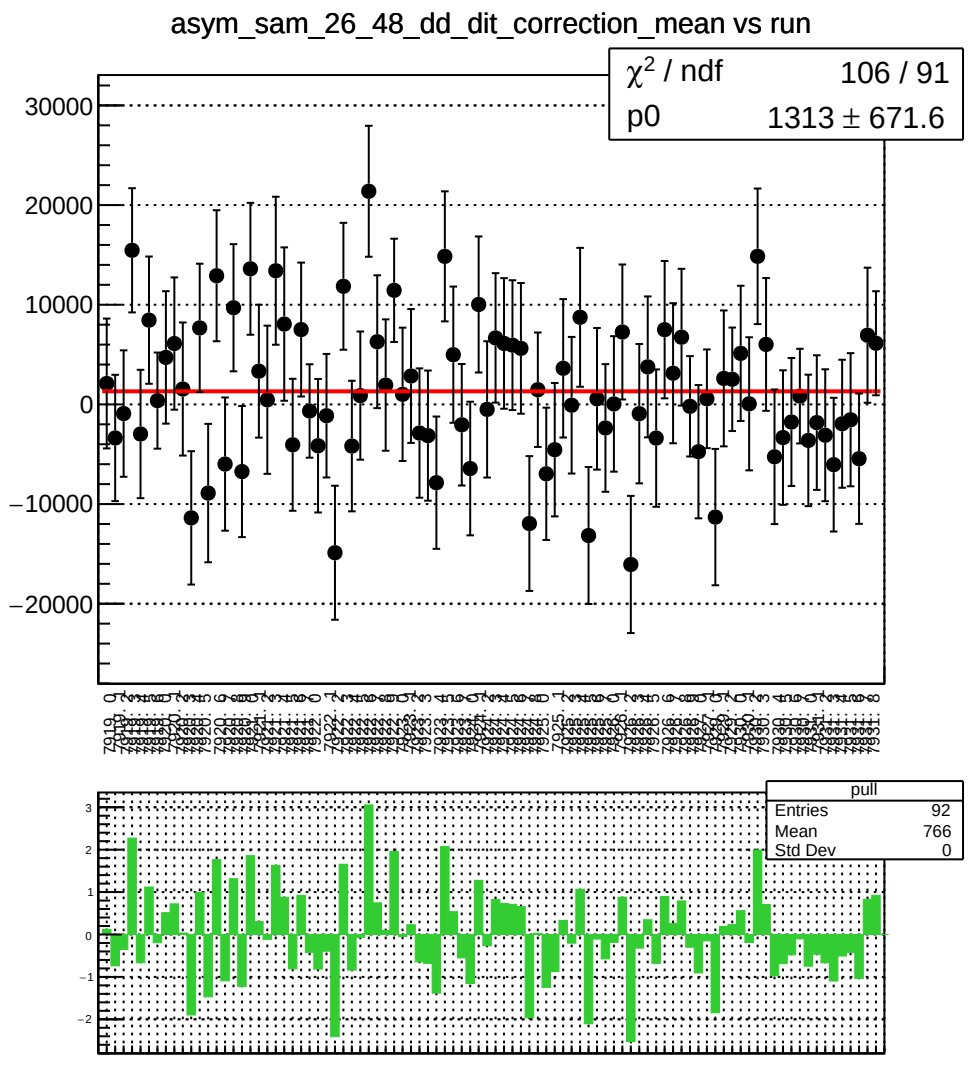

asym_sam_26_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 106.2 / 91
p0 1277 ± 652.5
30000
20000
10000
0
−10000
−20000
pull
Entries 92
Mean 1464
Std Dev 0
pull1D
Entries 92
Mean −0.003251
Std Dev 1.074

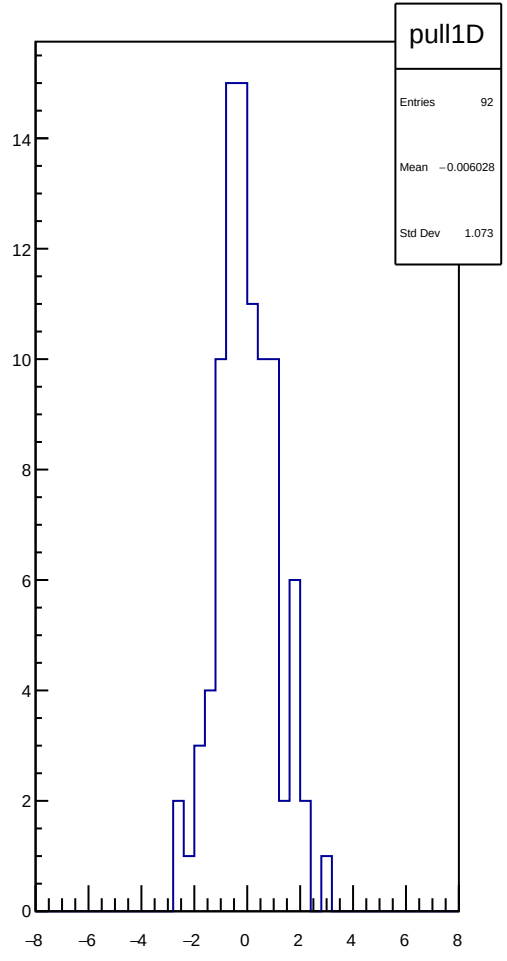

asym_sam_26_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 2293 / 91
p0 615.7 ± 0.4614
740
720
700
680
660
640
620
600
580
560

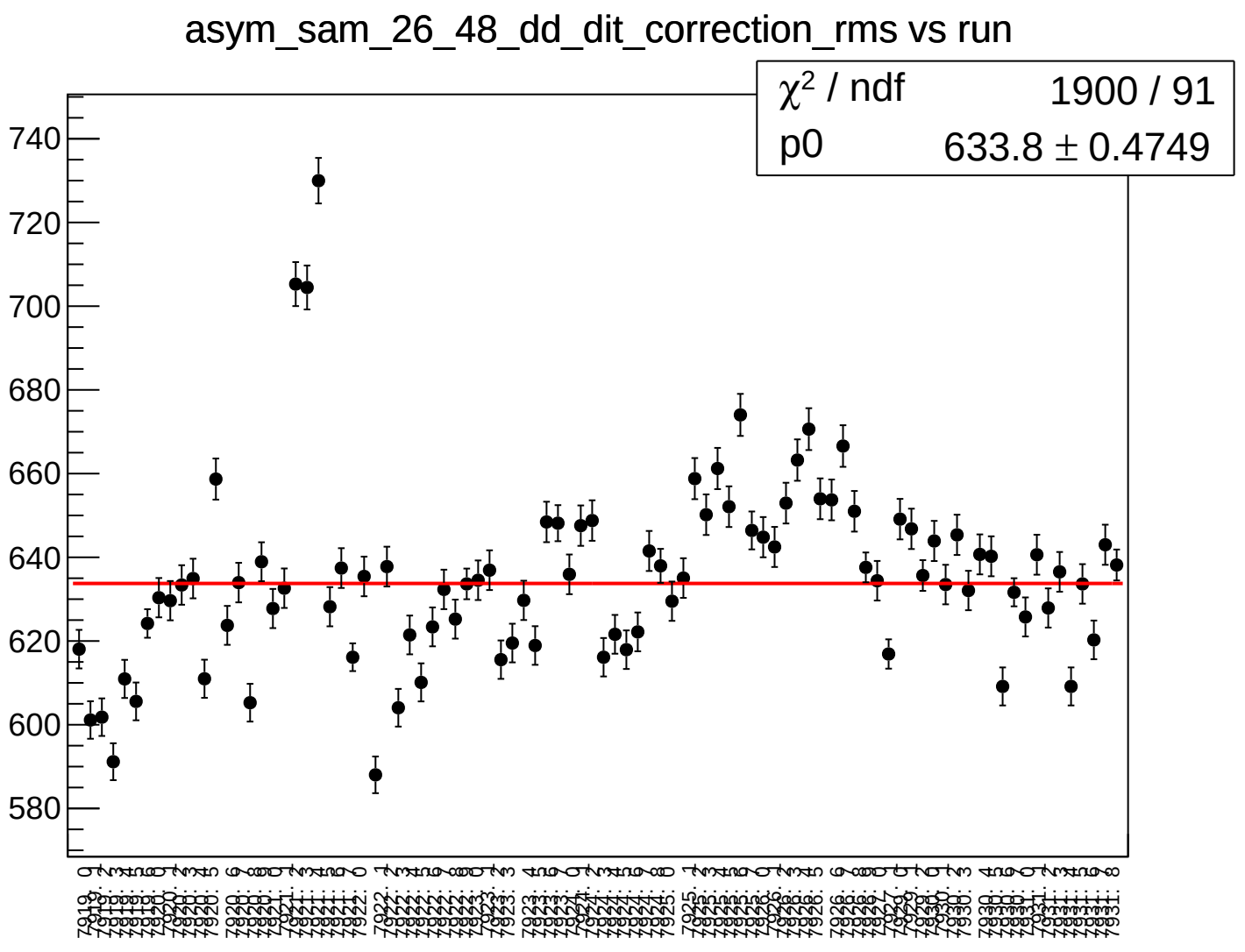

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 100.8 / 91
p0 116.7 ± 109.5
pull
Entries 92
Mean −4.558
Std Dev 78.38

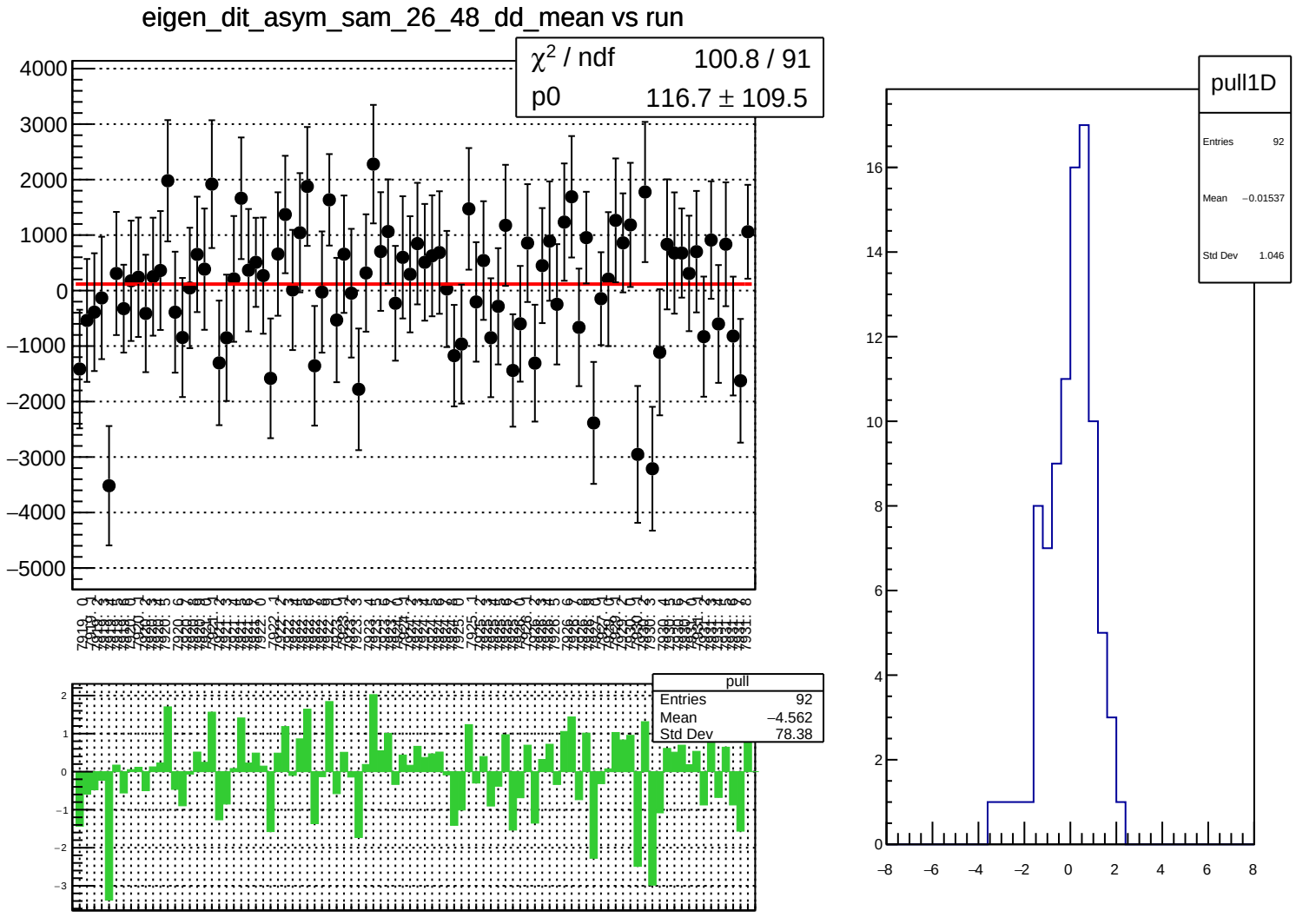

pull1D
Entries 92
Mean −0.01537
Std Dev 1.046

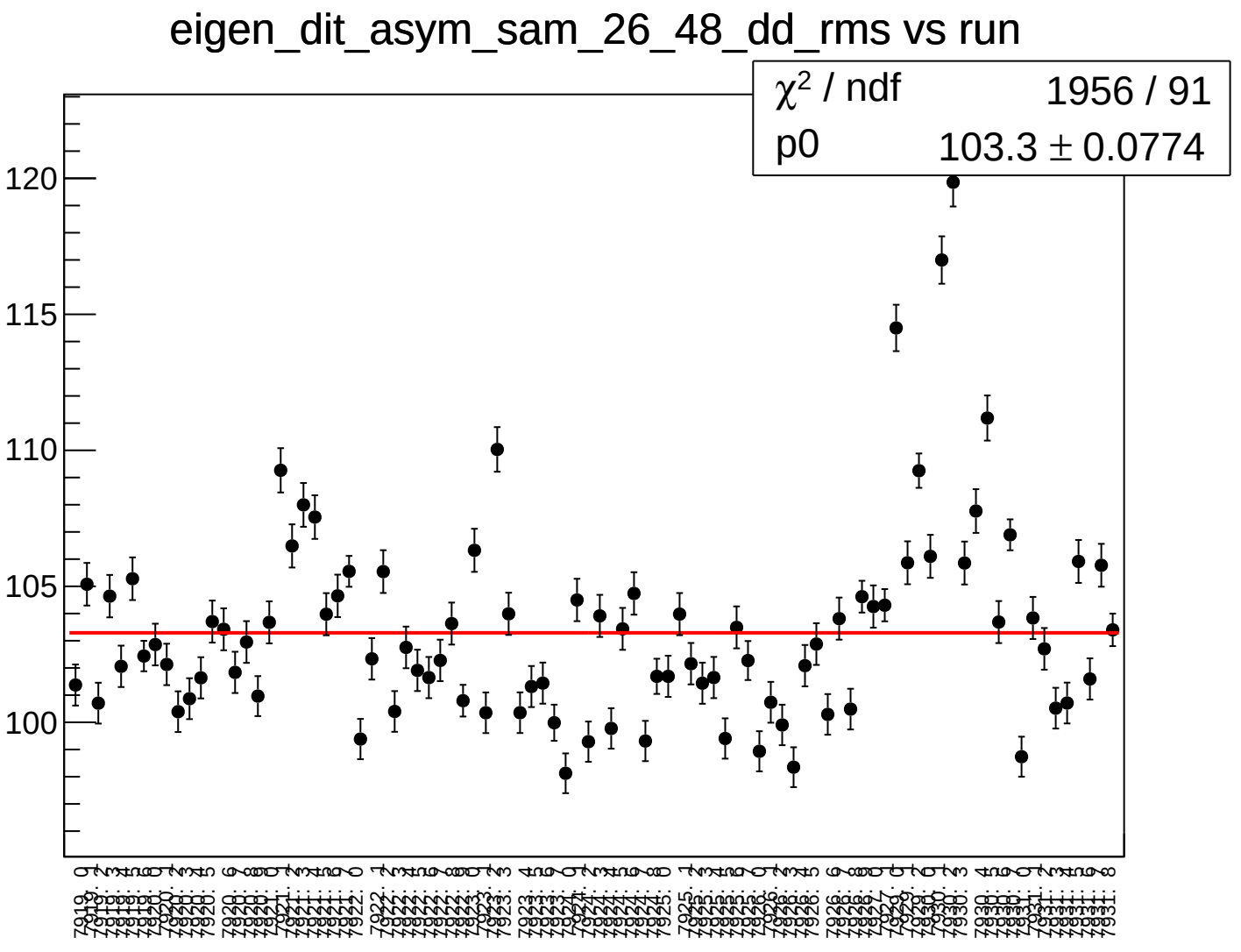

dit_asym_sam_26_48_dd_rms vs run
χ^2 / ndf 1956 / 91
p0 103.3 ± 0.0774
120
115
110
105
100

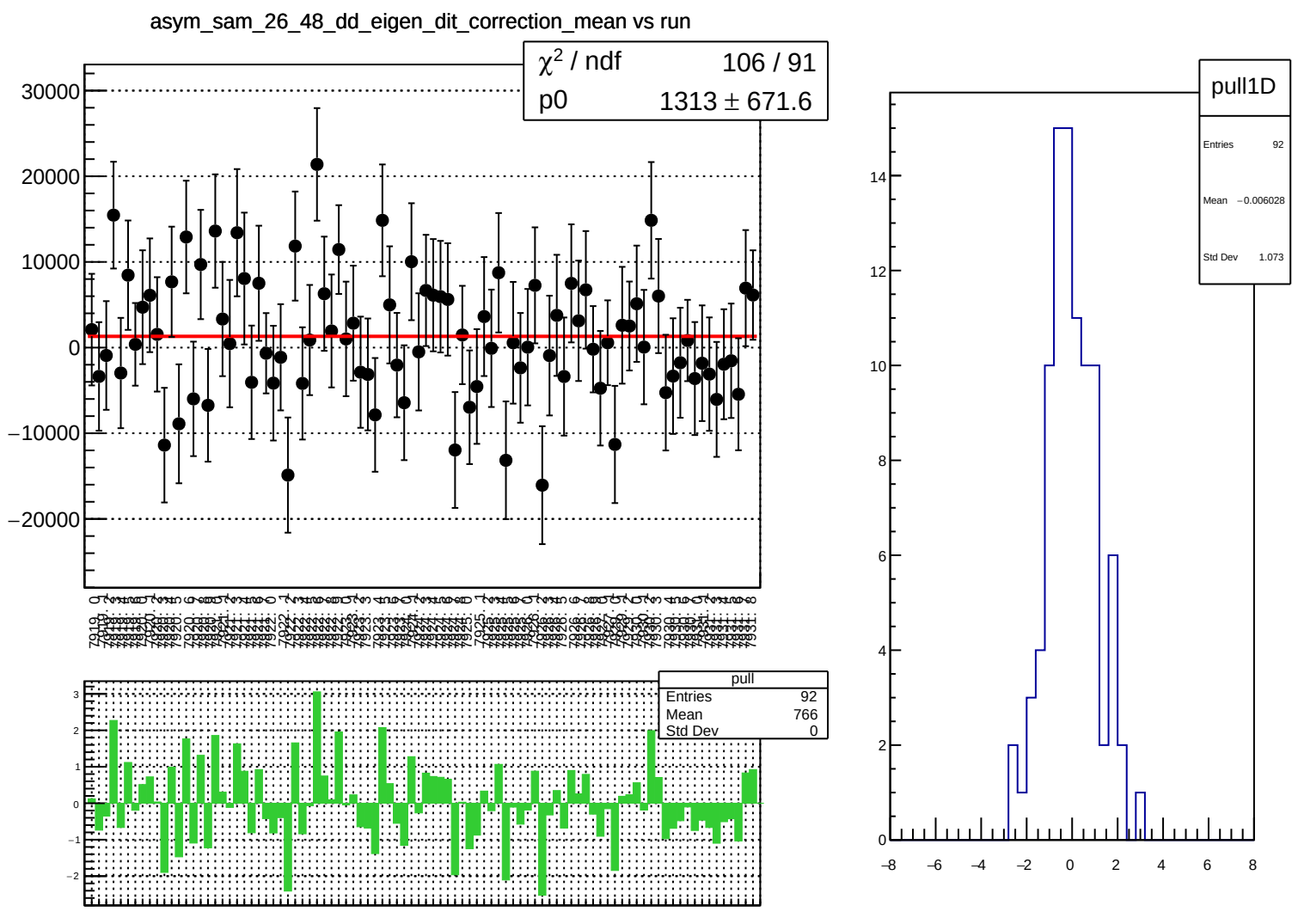

asym_sam_26_48_dd_dit_correction_mean vs run
χ² / ndf 106 / 91
p0 1313 ± 671.6
30000
20000
10000
0
−10000
−20000
pull
Entries 92
Mean 766
Std Dev 0
3
2
1
0
−1
−2

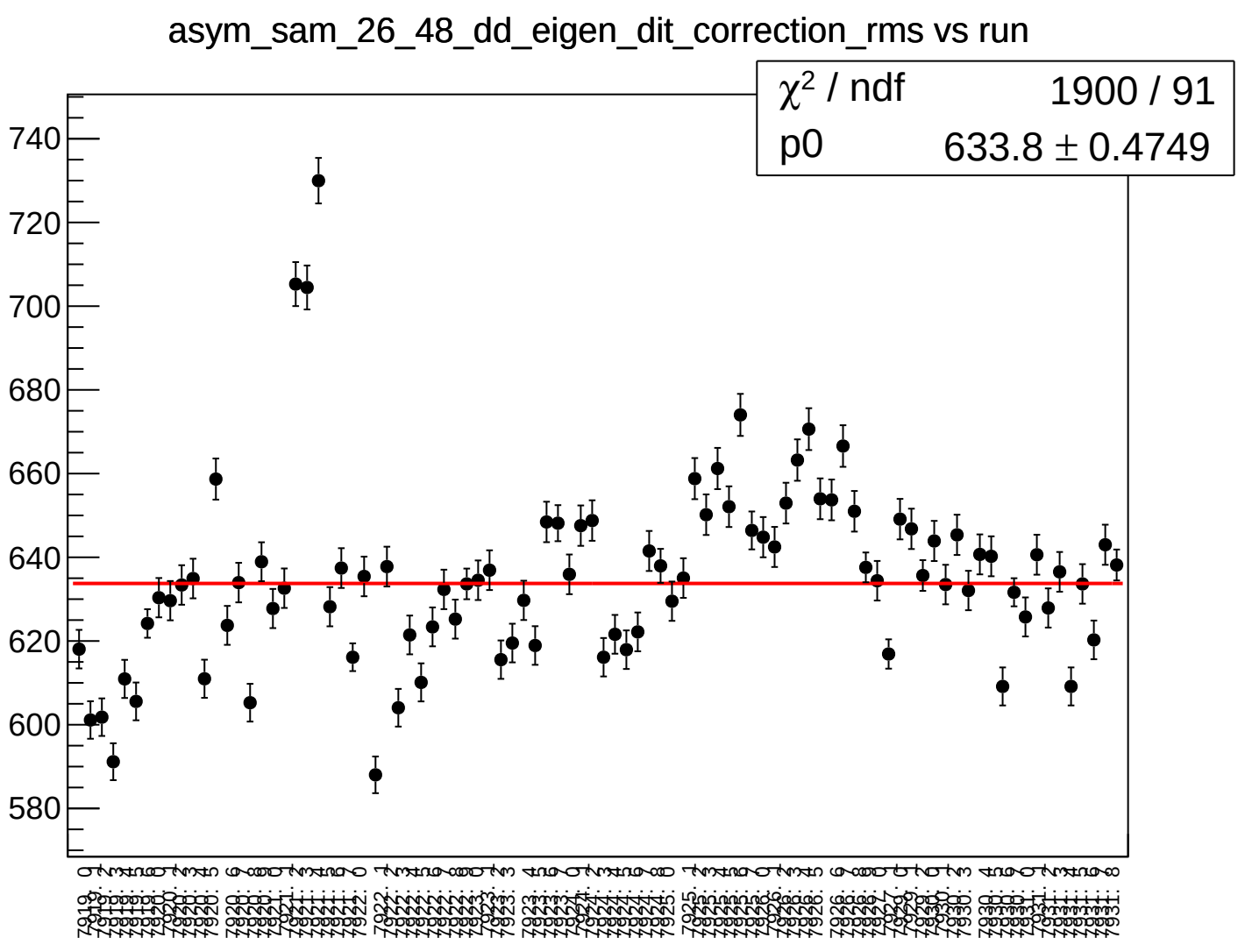

pull1D
Entries 92
Mean −0.006028
Std Dev 1.073
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

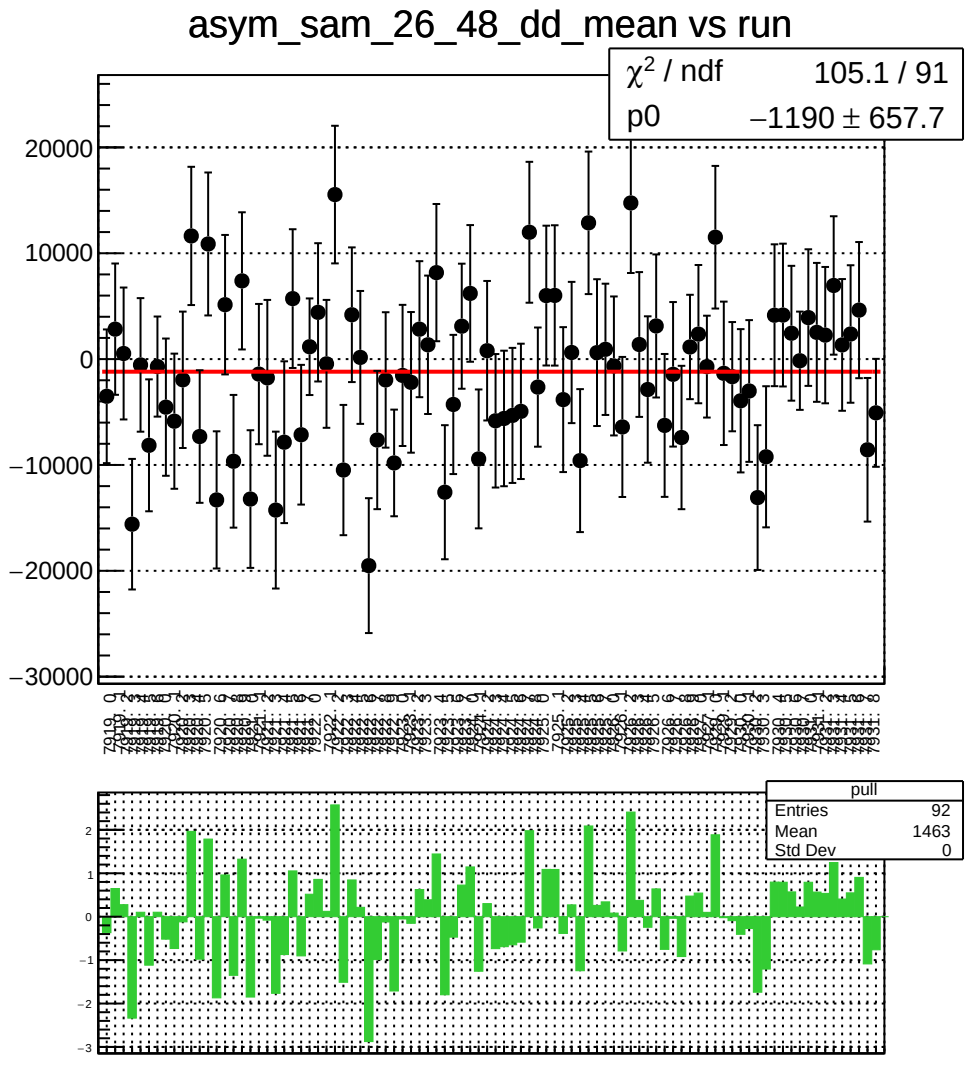

asym_sam_26_48_dd_dit_correction_rms vs run
χ² / ndf 1900 / 91
p0 633.8 ± 0.4749
740
720
700
680
660
640
620
600
580

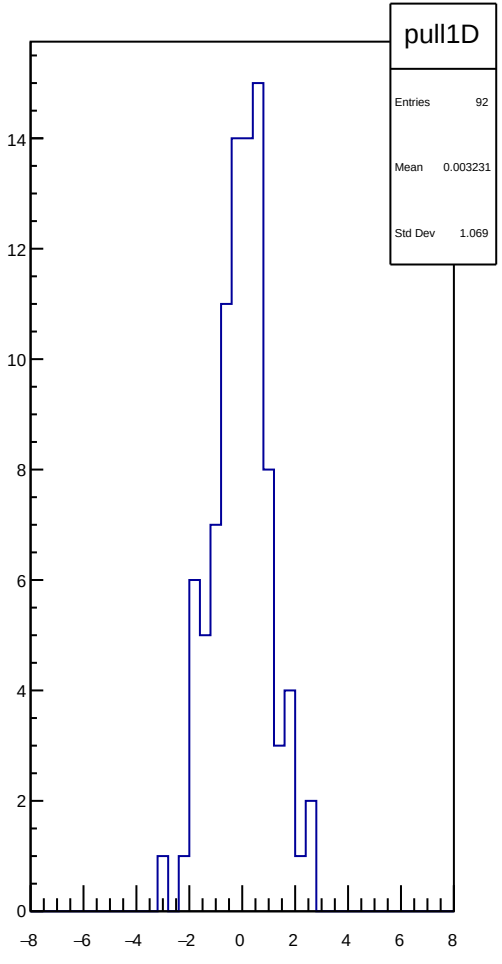

eigen_dit_asym_sam_26_48_dd_mean vs run
χ^2 / ndf 100.8 / 91
p0 116.7 ± 109.5
pull
Entries 92
Mean −4.562
Std Dev 78.38
pull1D
Entries 92
Mean −0.01537
Std Dev 1.046

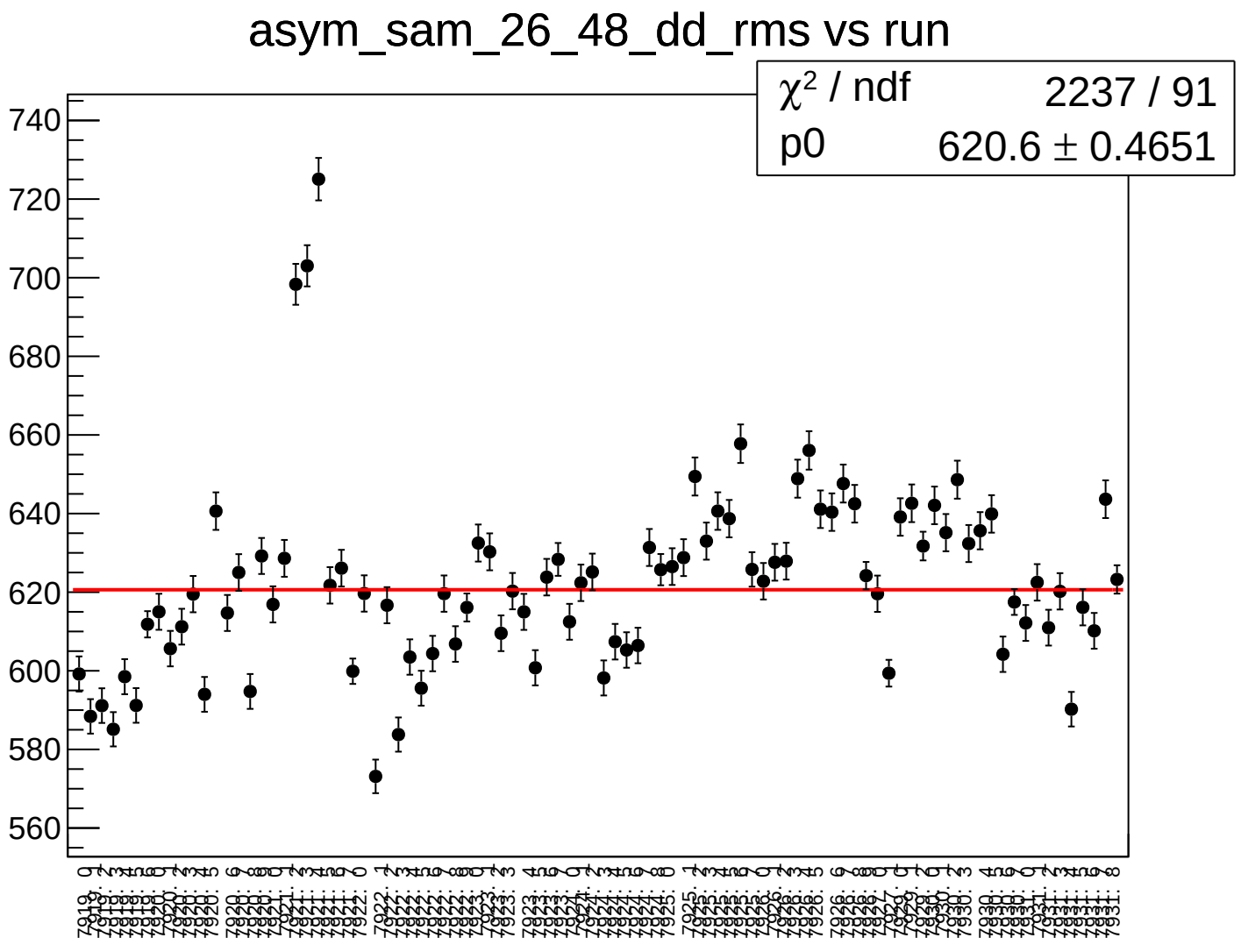

eigen_dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 1956 / 91
p0 103.3 ± 0.0774
120
115
110
105
100

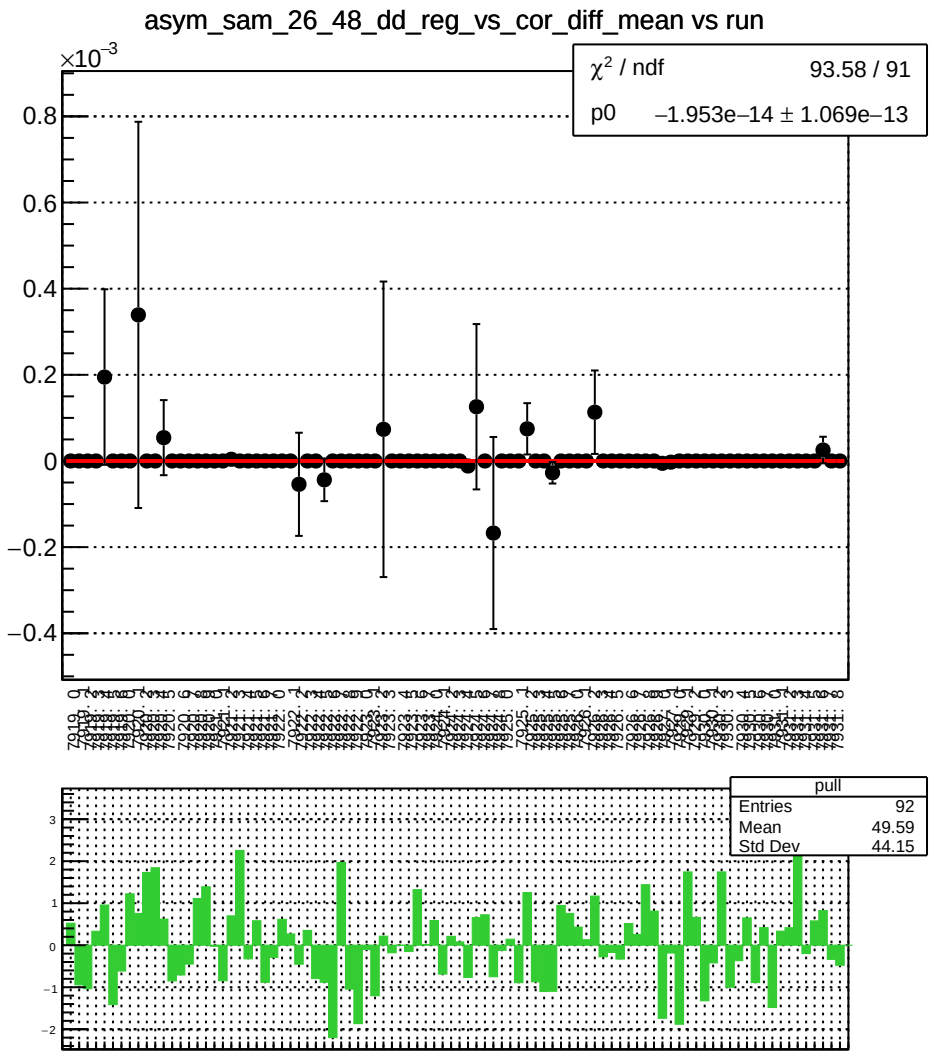

asym_sam_26_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 106 / 91
p0 1313 ± 671.6
30000
20000
10000
0
−10000
−20000
pull
Entries 92
Mean 766
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.006028
Std Dev 1.073
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

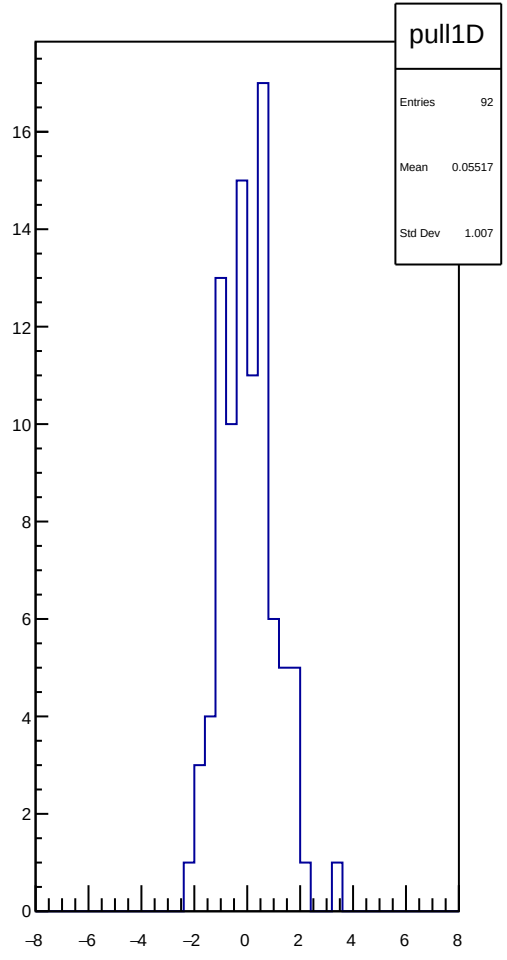

asym_sam_26_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 1900 / 91
p0 633.8 ± 0.4749
740
720
700
680
660
640
620
600
580

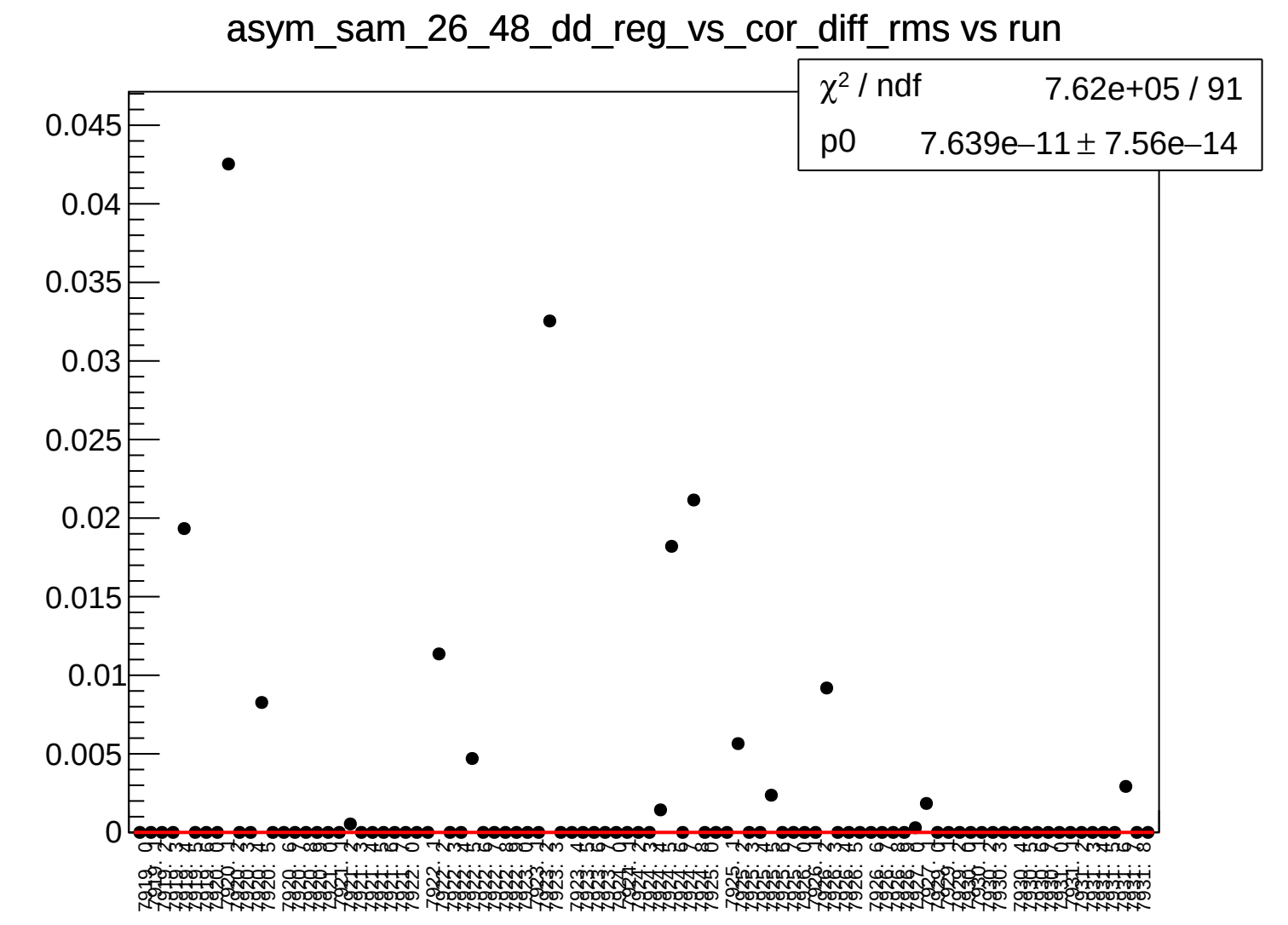

asym_sam_26_48_dd_mean vs run
χ² / ndf 105.1 / 91
p0 −1190 ± 657.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean 1463
Std Dev 0
2
1
0
−1
−2
−3

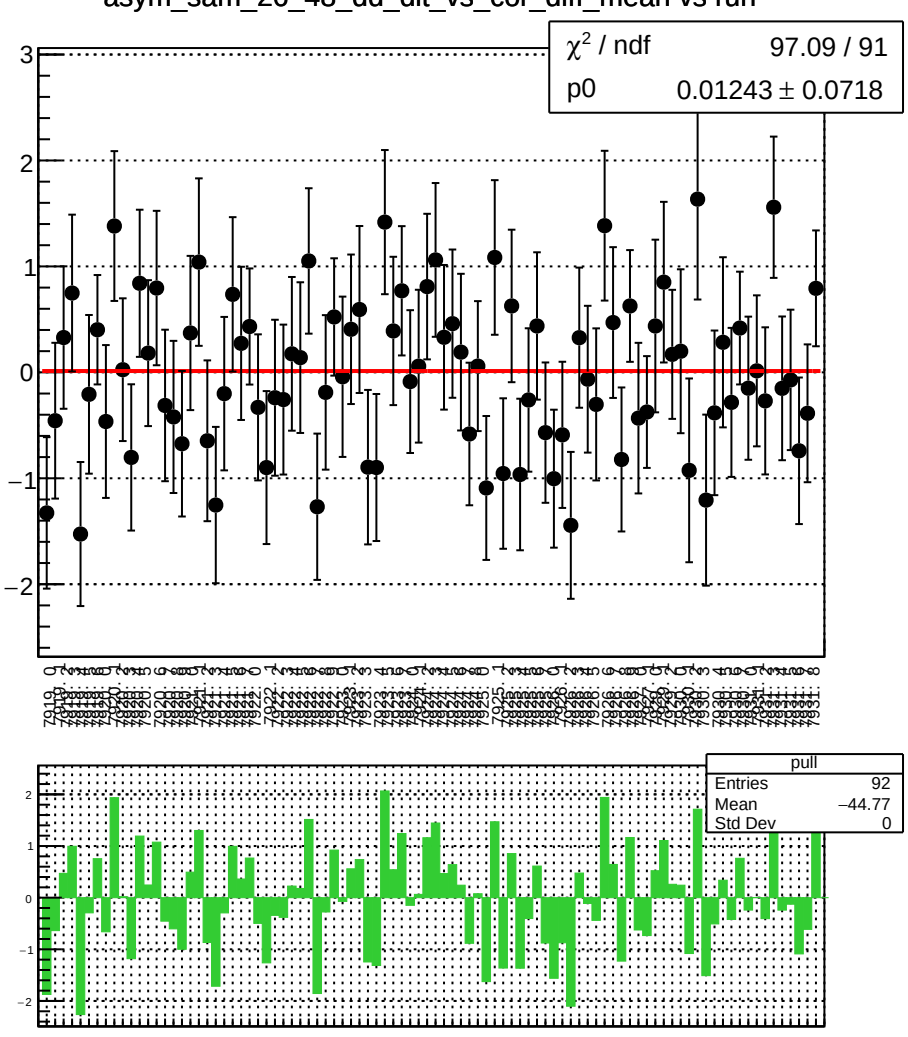

pull1D
Entries 92
Mean 0.003231
Std Dev 1.069
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

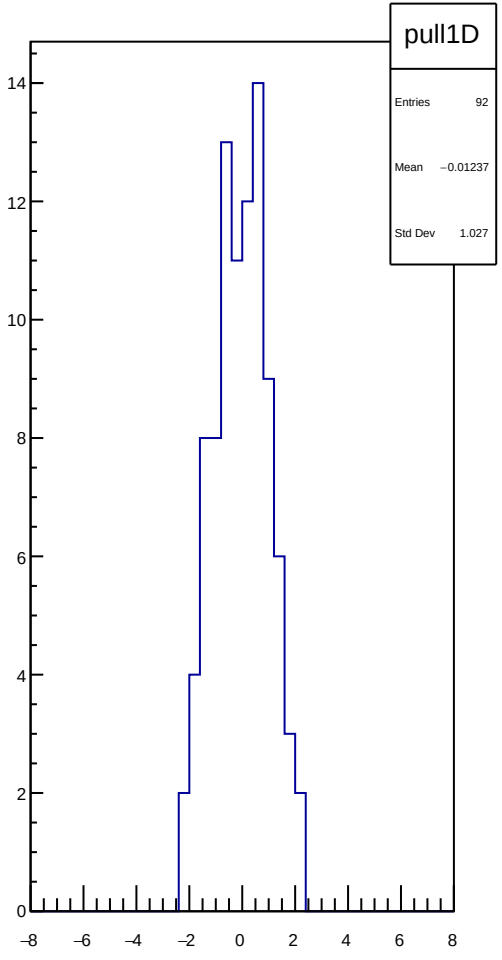

asym_sam_26_48_dd_rms vs run
χ² / ndf 2237 / 91
p0 620.6 ± 0.4651
740
720
700
680
660
640
620
600
580
560

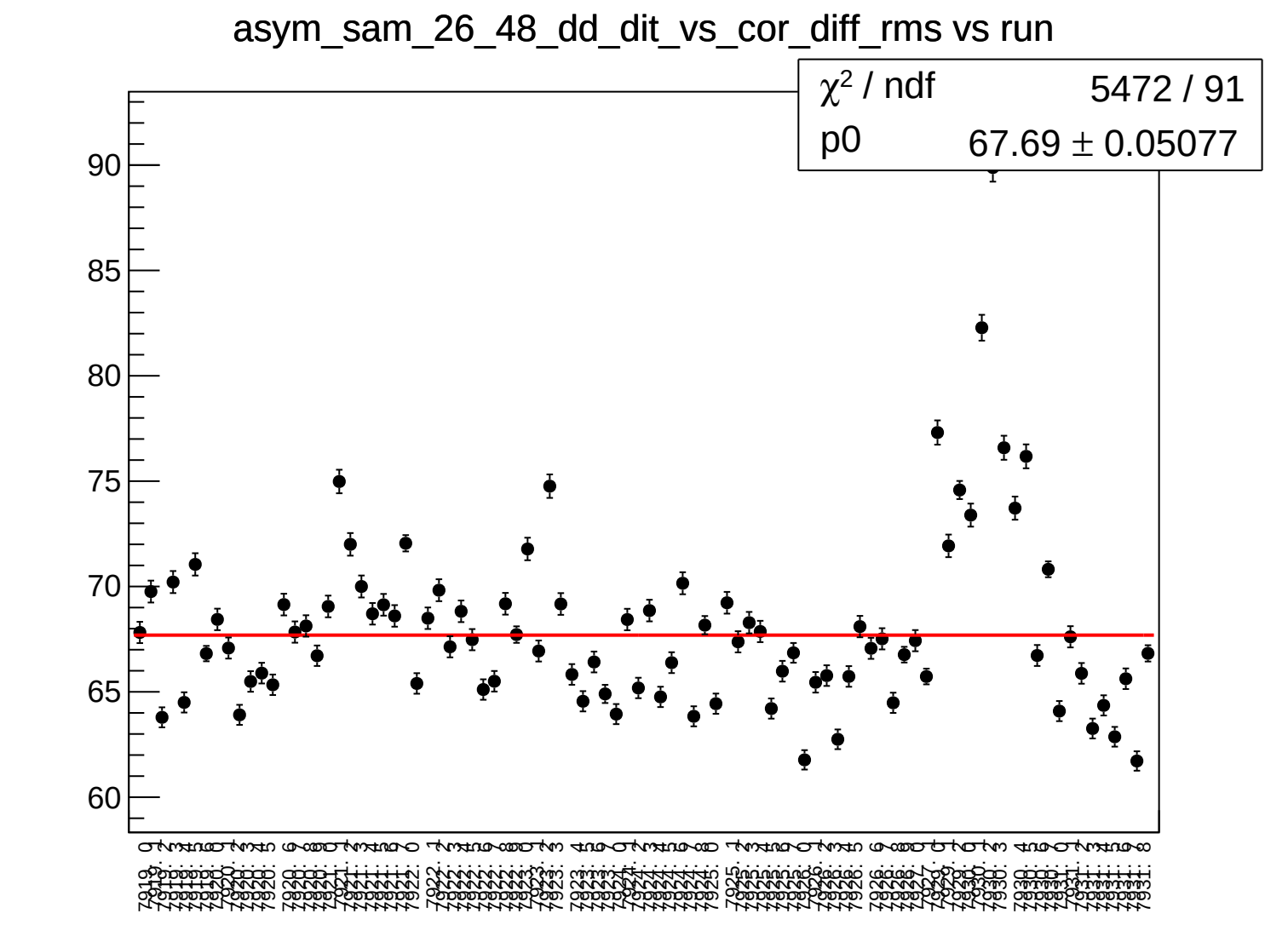

asym_sam_26_48_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 93.58 / 91
p0 −1.953e−14 ± 1.069e−13
pull
Entries 92
Mean 49.59
Std Dev 44.15

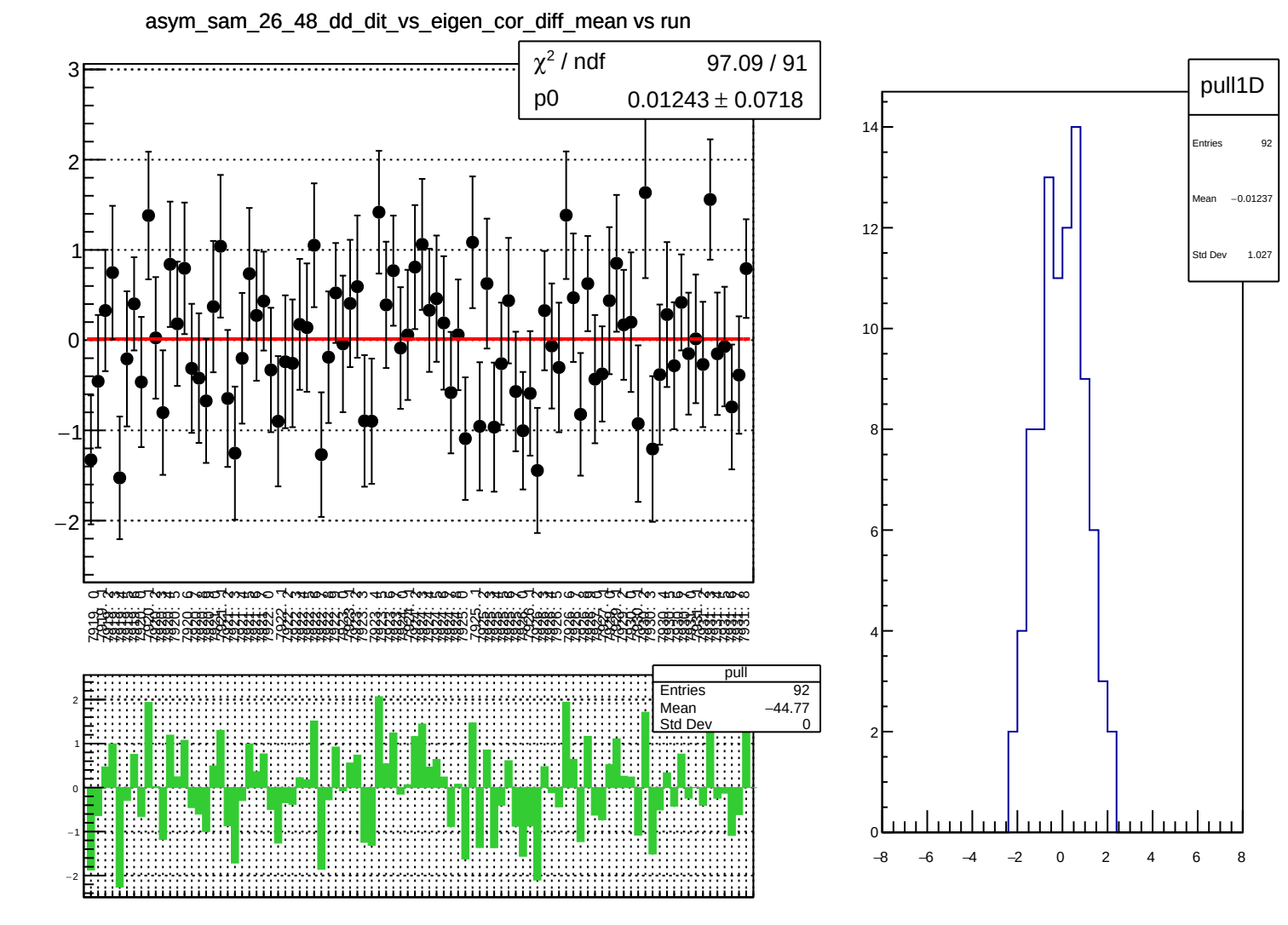

pull1D
Entries 92
Mean 0.05517
Std Dev 1.007

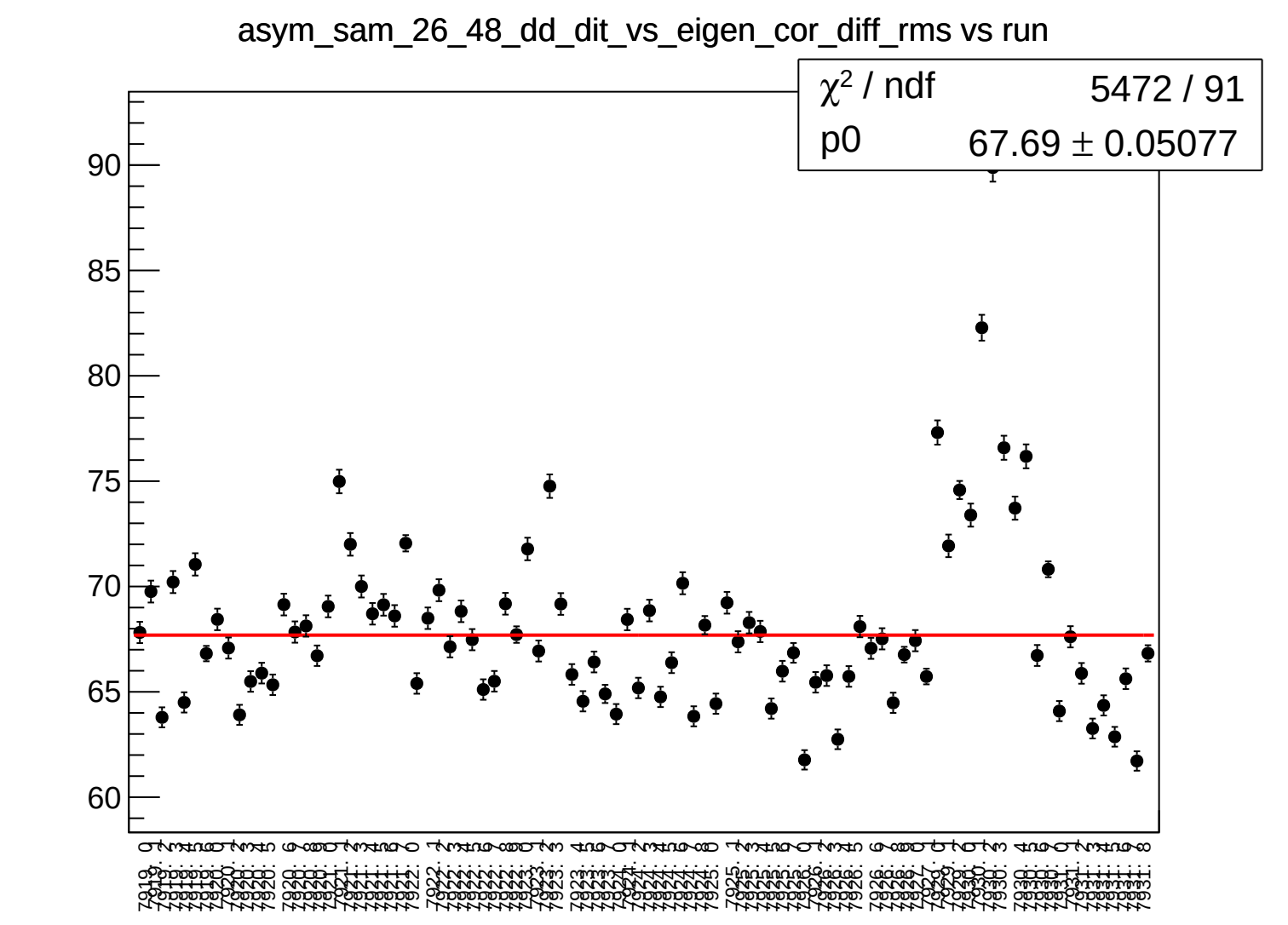

asym_sam_26_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.62e+05 / 91
p0 7.639e−11 ± 7.56e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

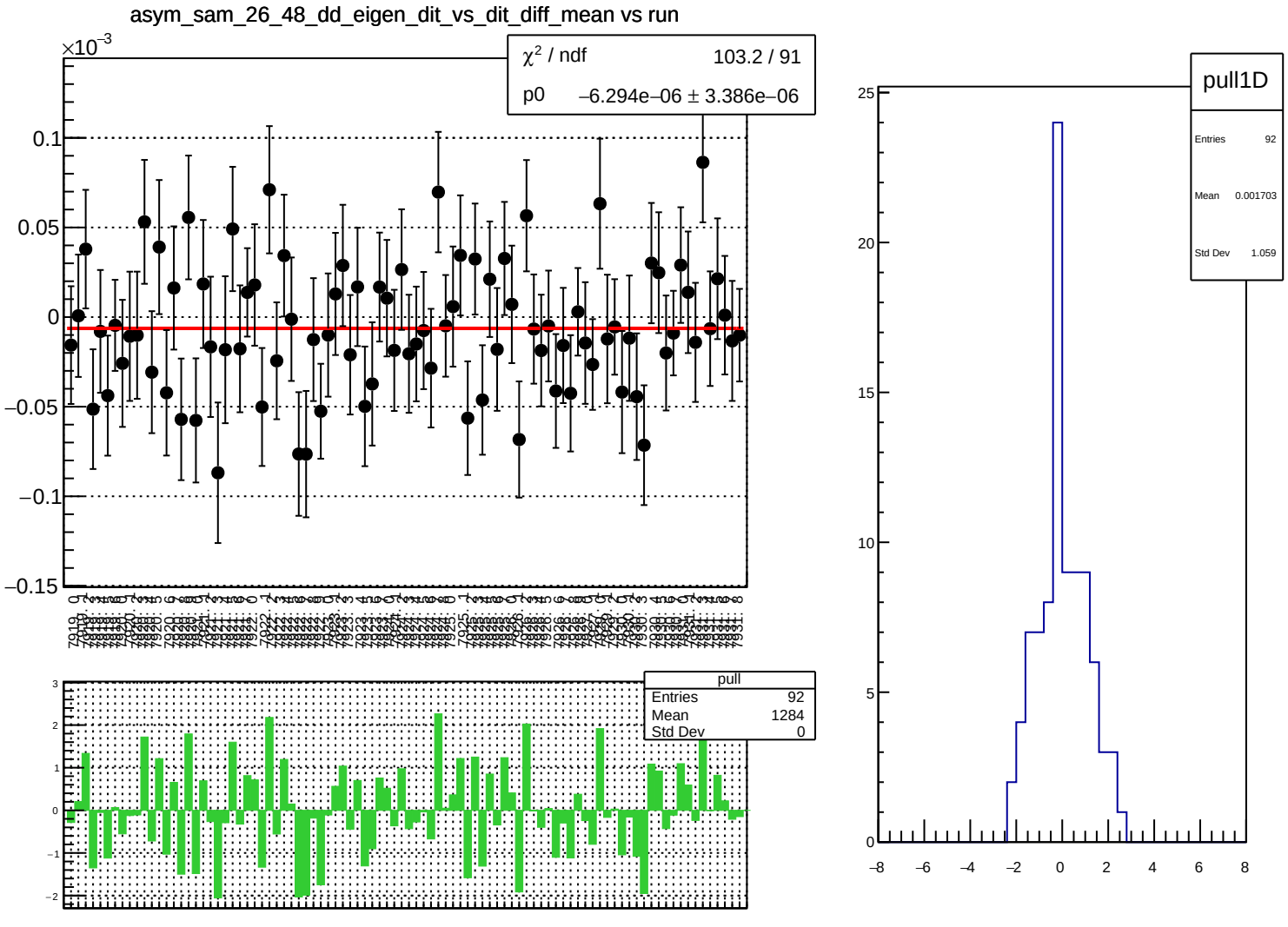

asym_sam_26_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 97.09 / 91
p0 0.01243 ± 0.0718
pull
Entries 92
Mean −44.77
Std Dev 0

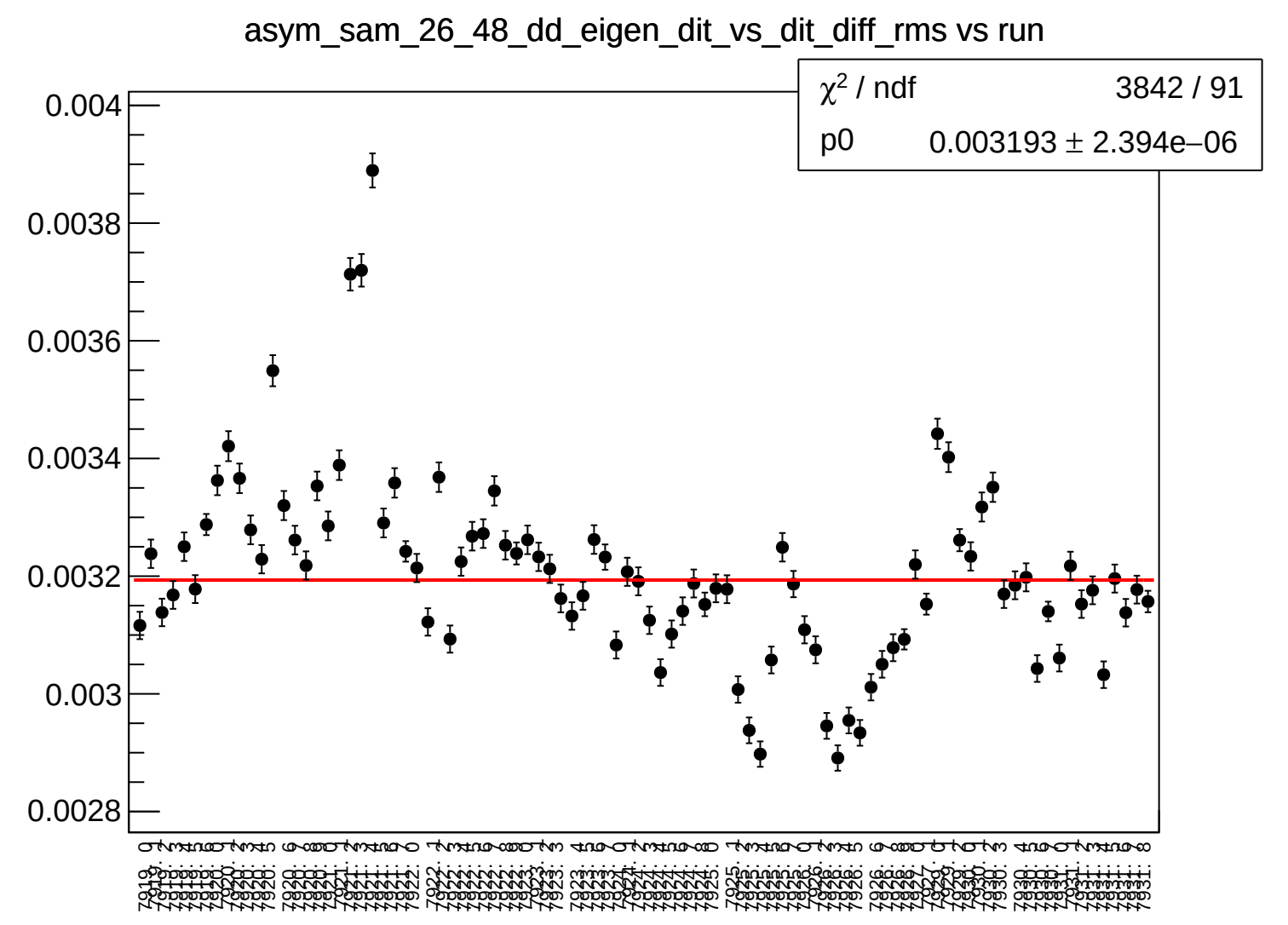

pull1D
Entries 92
Mean −0.01237
Std Dev 1.027

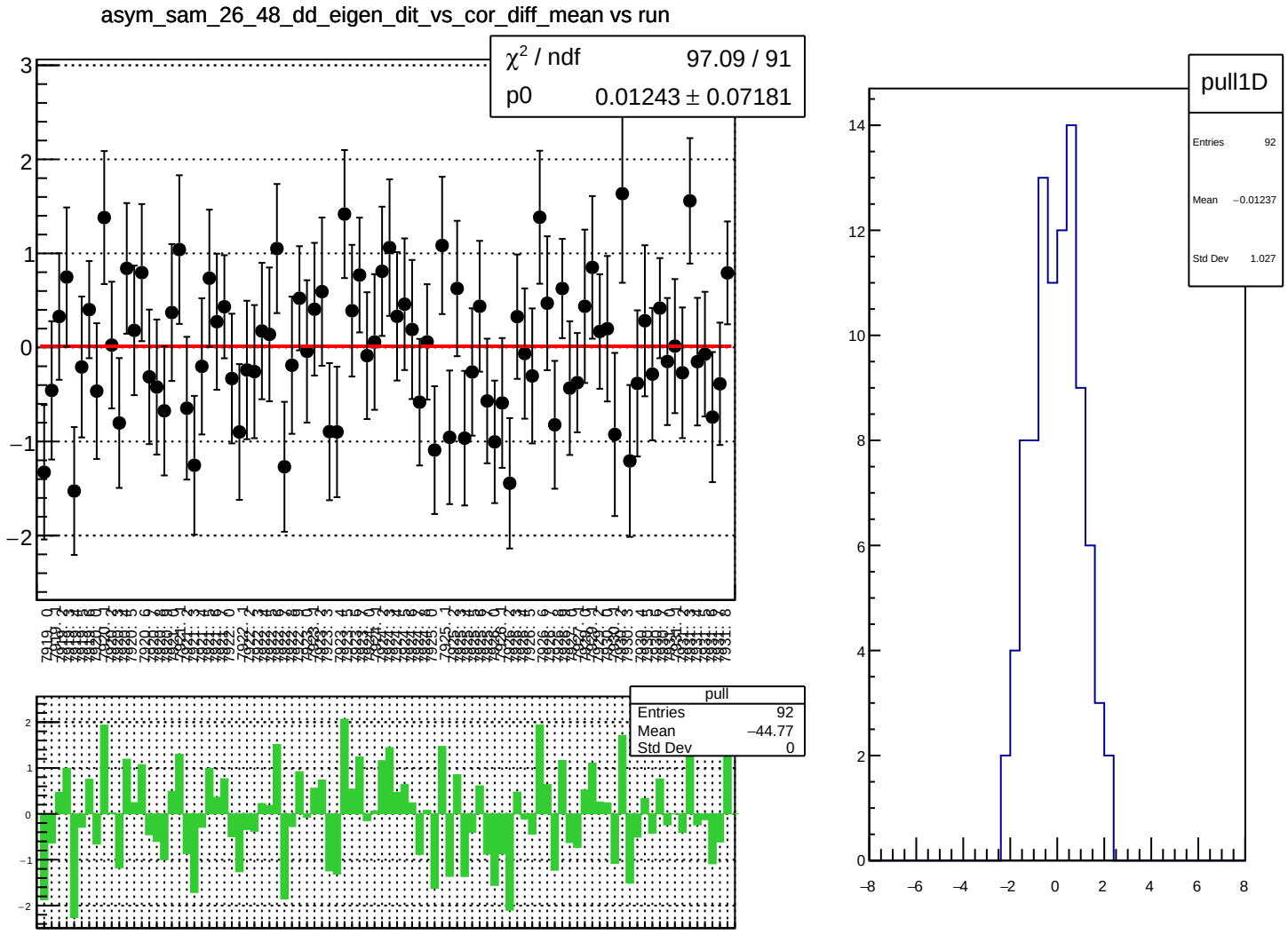

asym_sam_26_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5472 / 91
p0 67.69 ± 0.05077
90
85
80
75
70
65
60

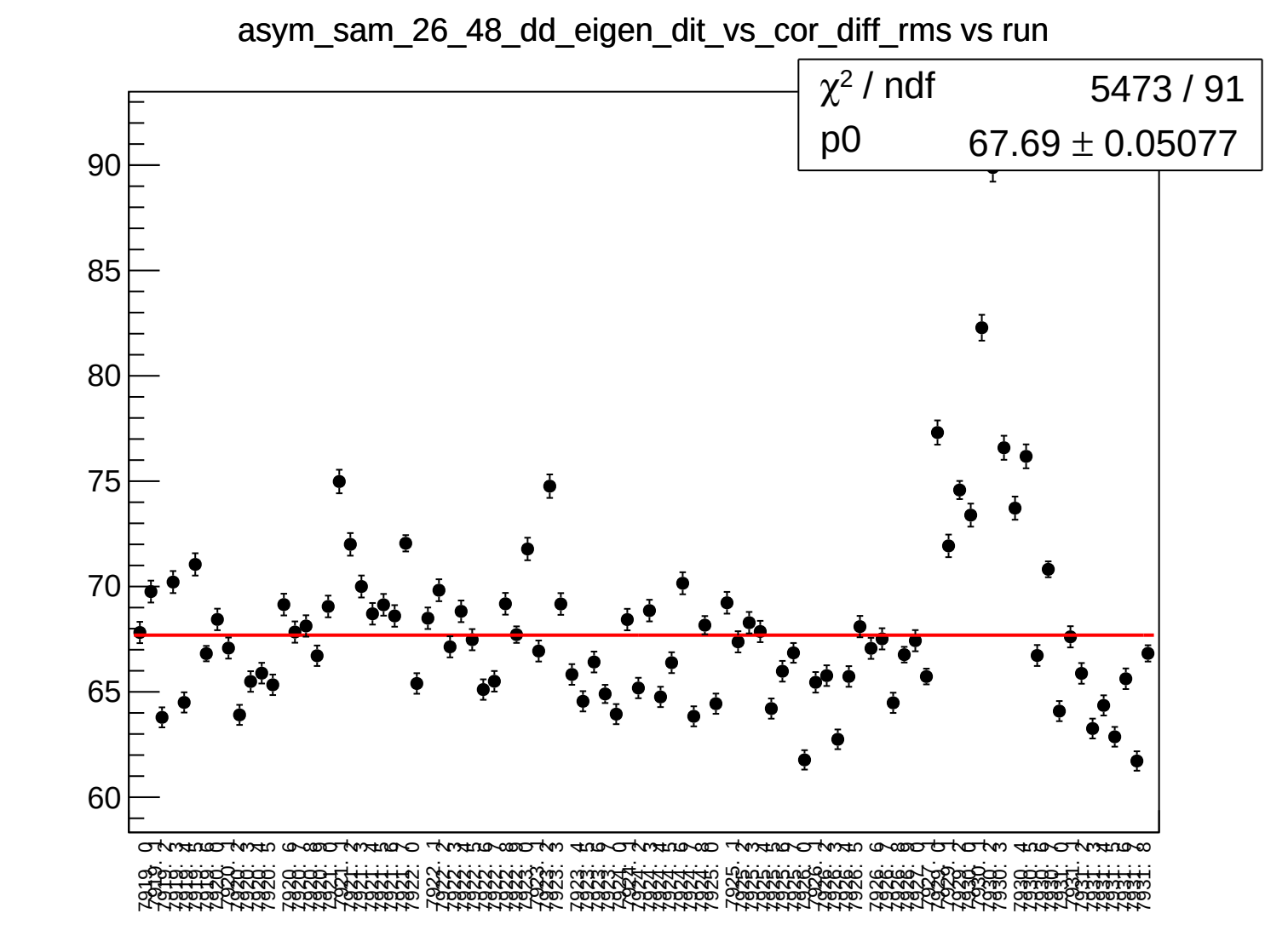

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.09 / 91
p0 0.01243 ± 0.0718
pull
Entries 92
Mean −44.77
Std Dev 0
pull1D
Entries 92
Mean −0.01237
Std Dev 1.027

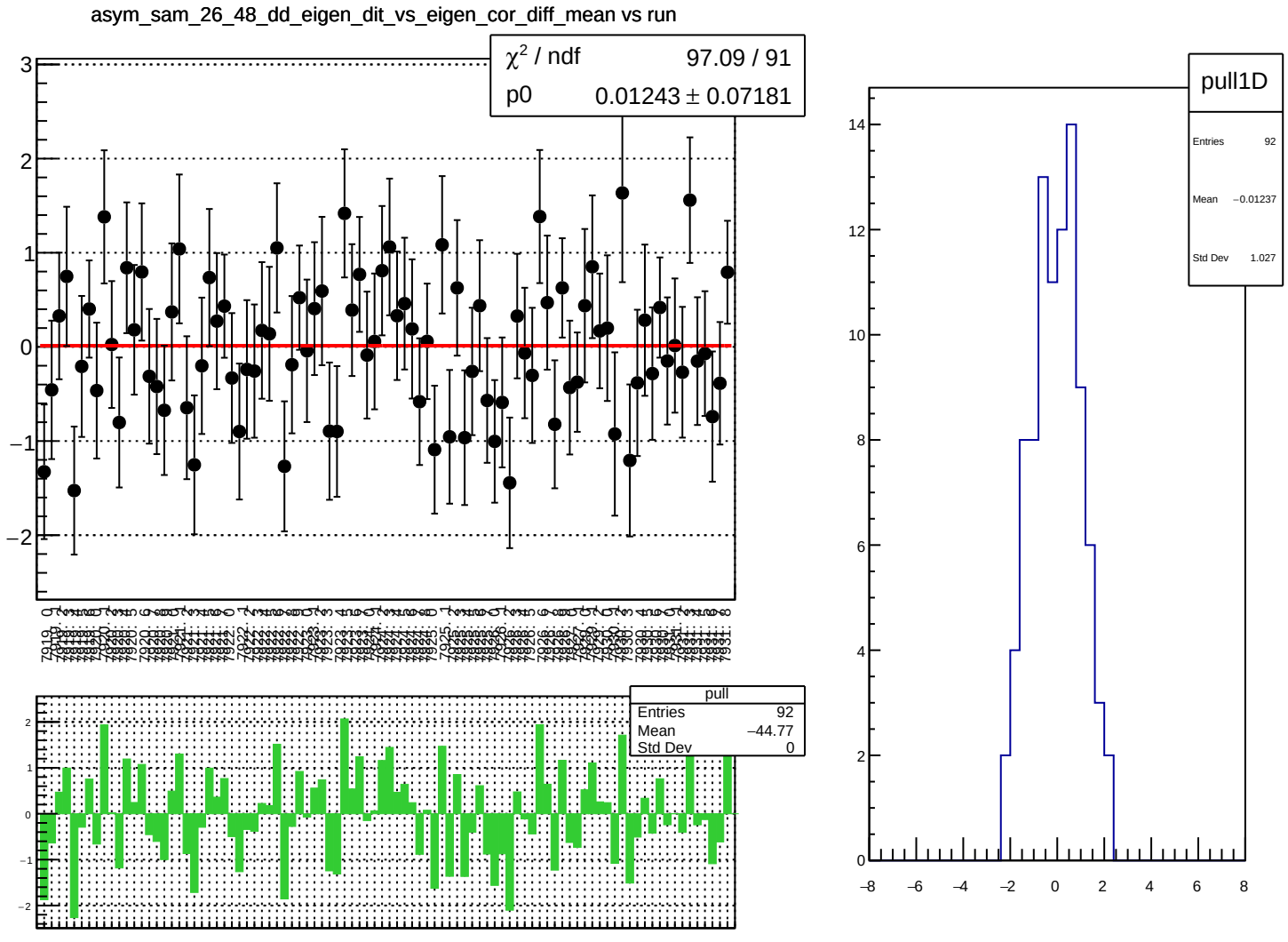

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5472 / 91
p0 67.69 ± 0.05077
90
85
80
75
70
65
60

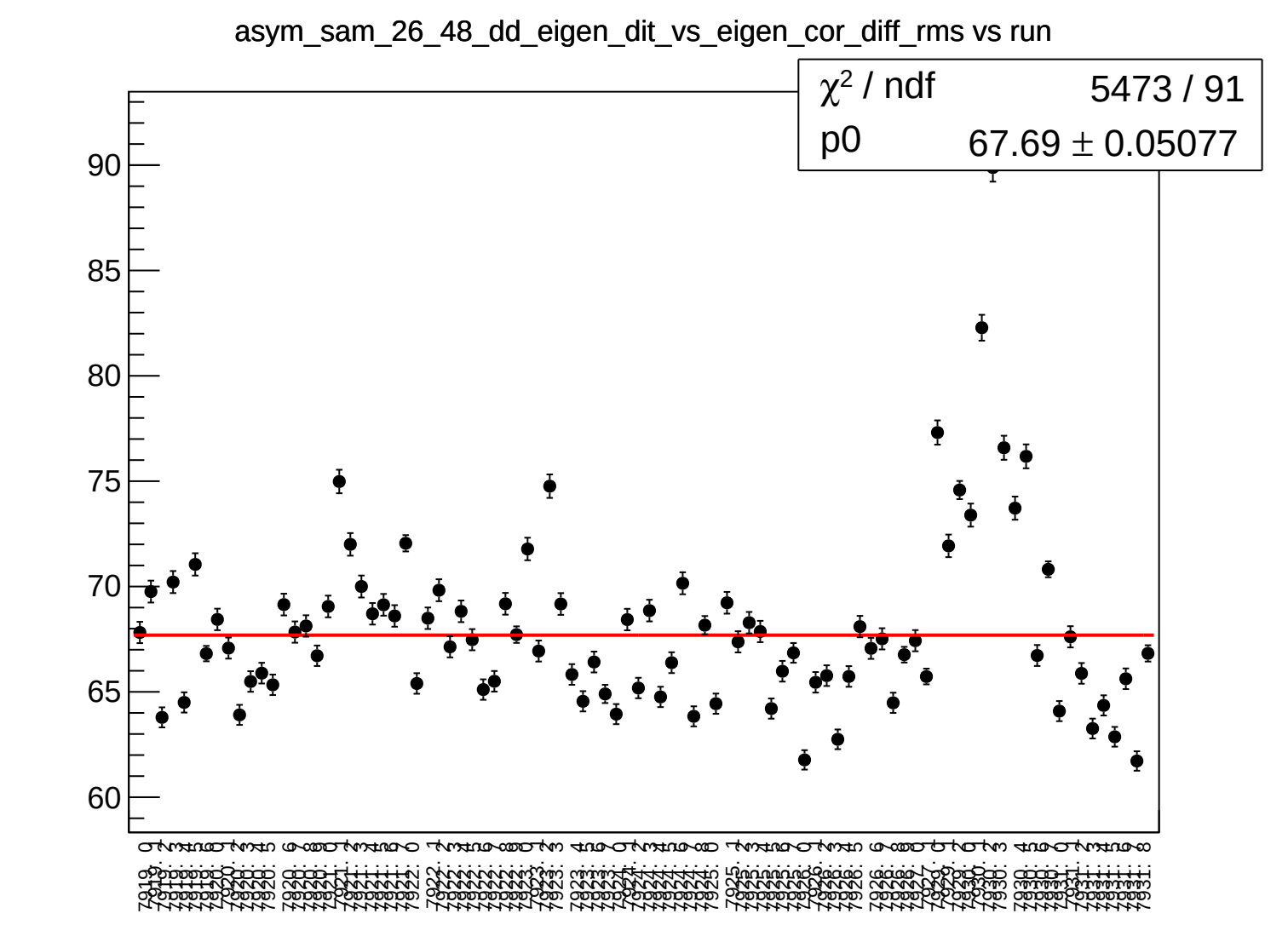

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 103.2 / 91
p0 −6.294e−06 ± 3.386e−06
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 92
Mean 1284
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.001703
Std Dev 1.059
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

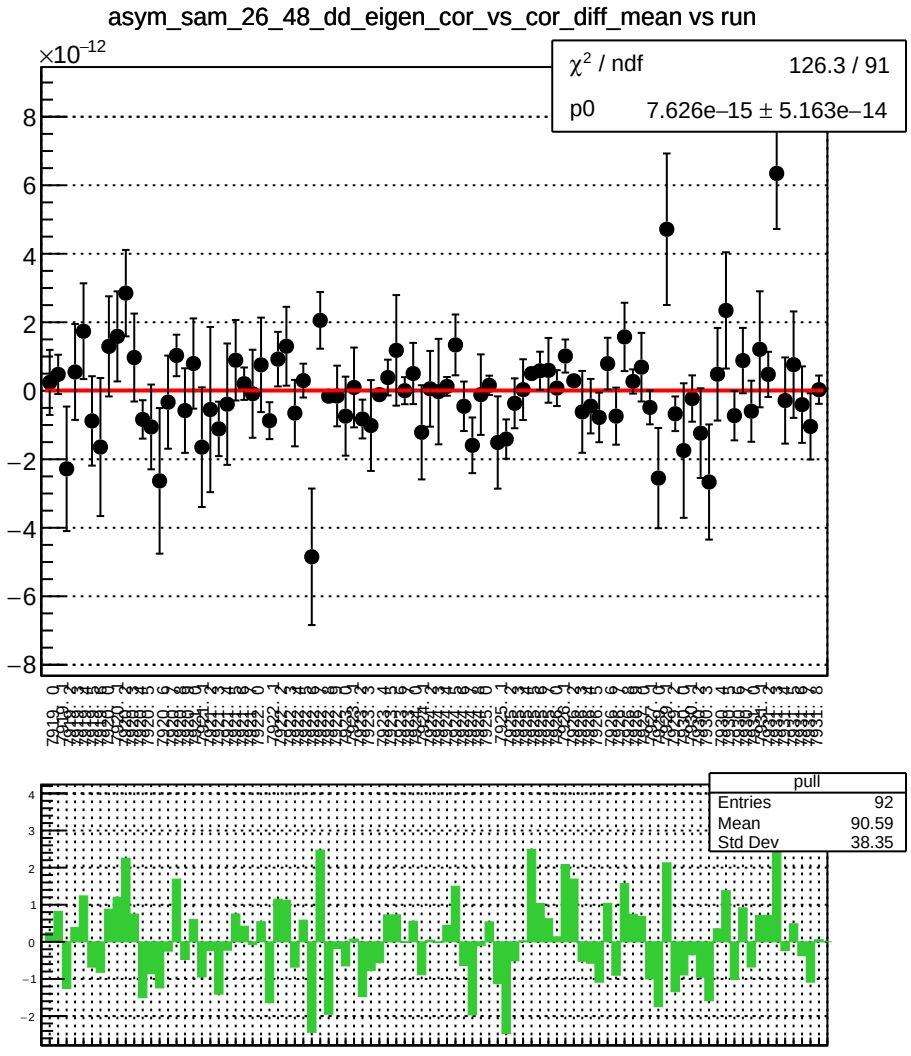

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3842 / 91
p0 0.003193 ± 2.394e−06
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028

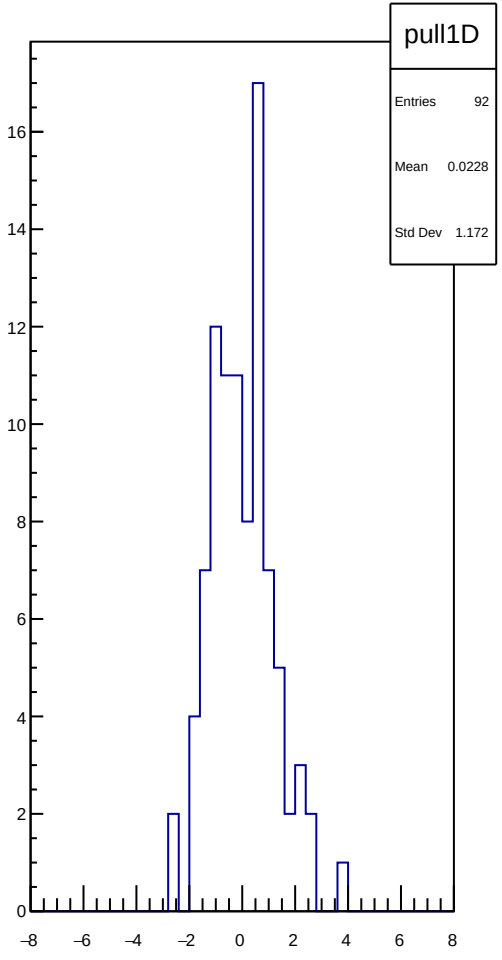

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 97.09 / 91
p0 0.01243 ± 0.07181
pull
Entries 92
Mean −44.77
Std Dev 0
pull1D
Entries 92
Mean −0.01237
Std Dev 1.027

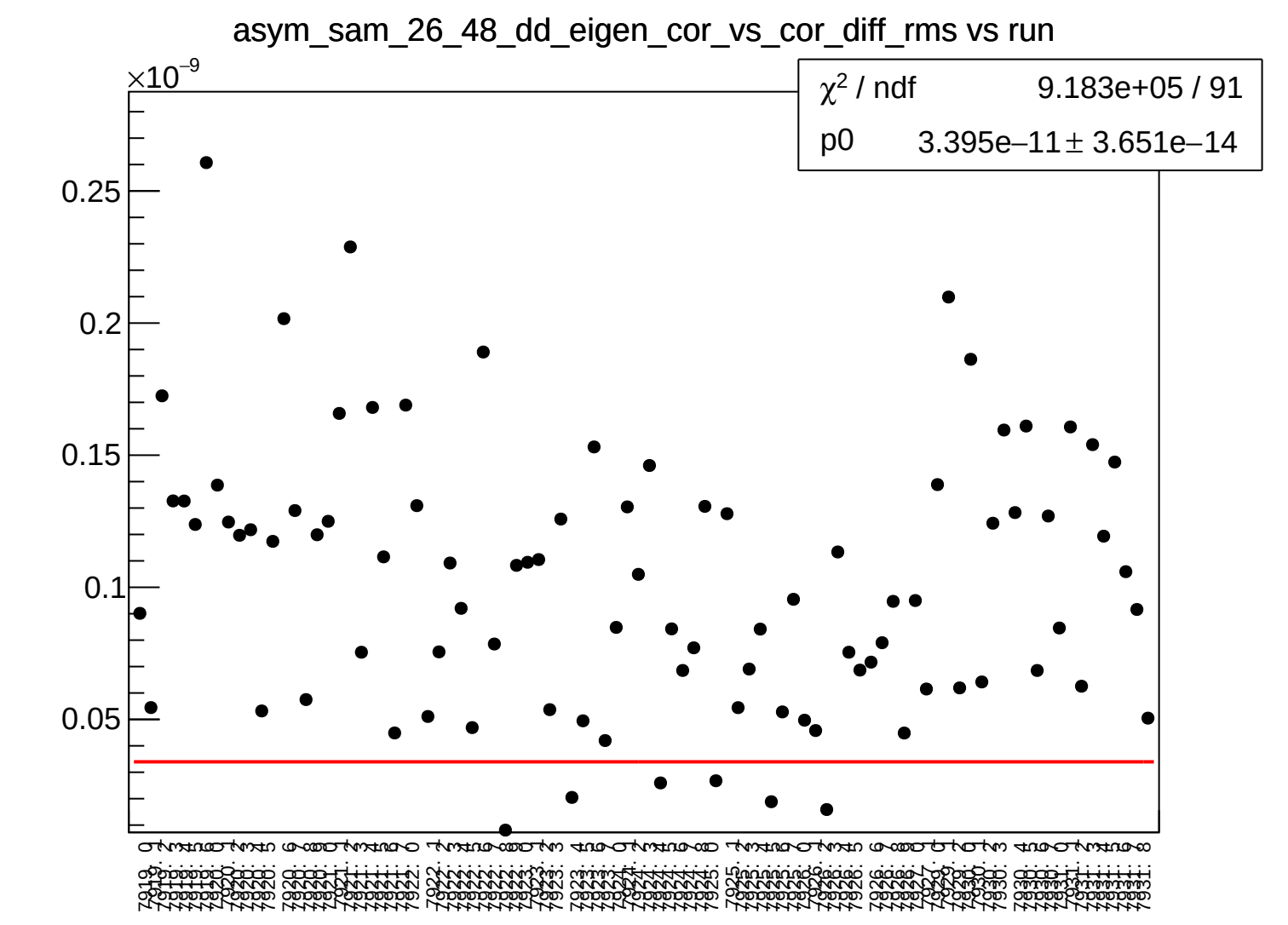

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5473 / 91
p0 67.69 ± 0.05077
90
85
80
75
70
65
60

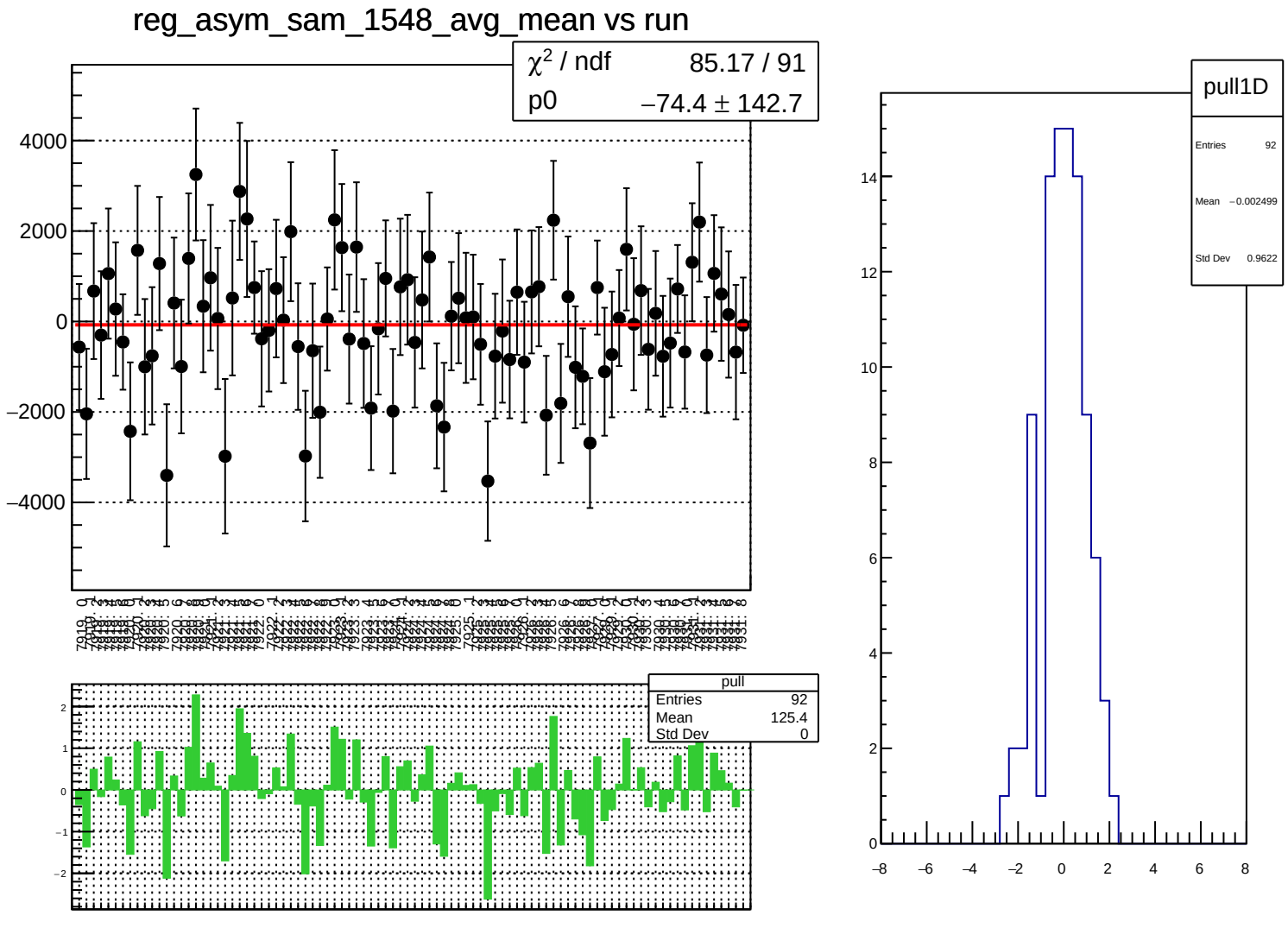

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.09 / 91
p0 0.01243 ± 0.07181
pull
Entries 92
Mean −44.77
Std Dev 0
pull1D
Entries 92
Mean −0.01237
Std Dev 1.027

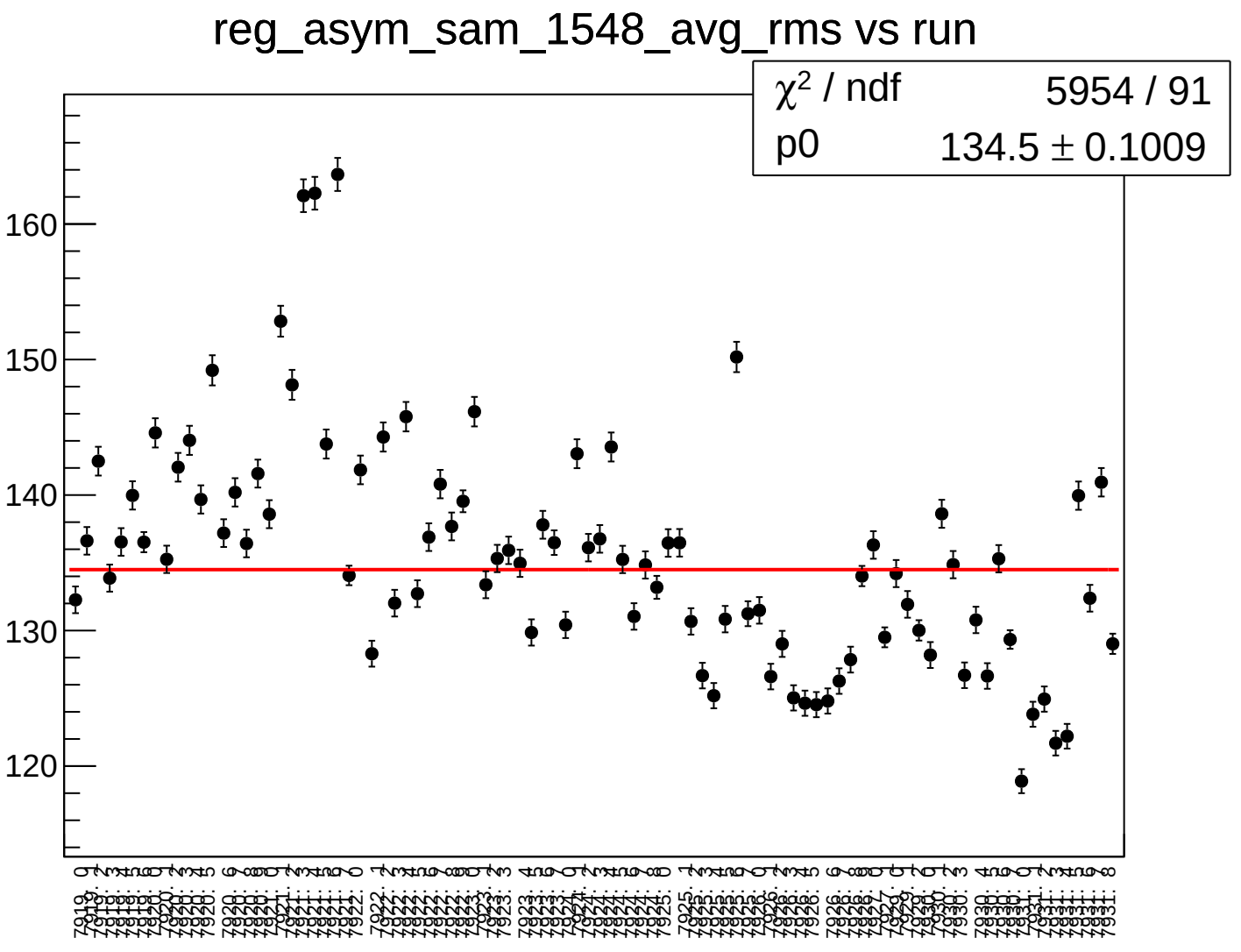

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5473 / 91
p0 67.69 ± 0.05077
90
85
80
75
70
65
60

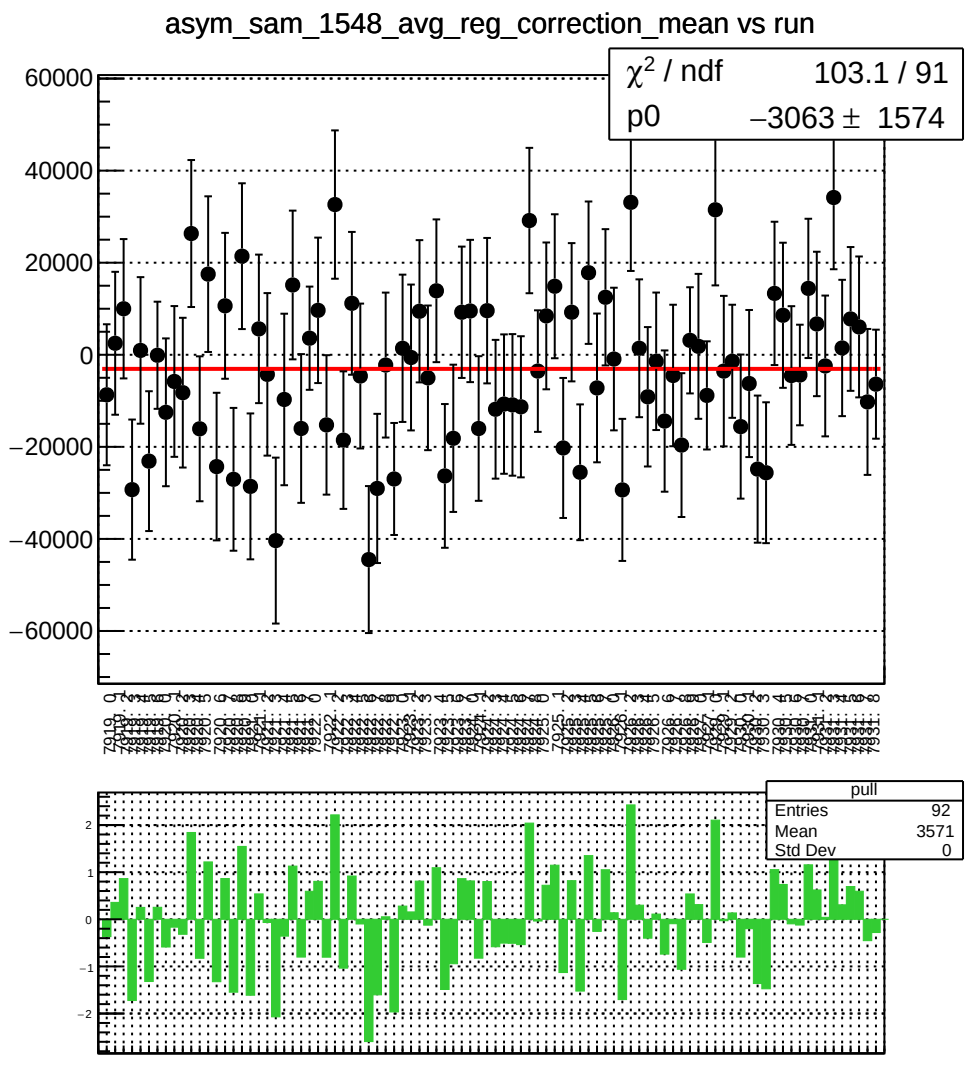

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 126.3 / 91
p0 7.626e−15 ± 5.163e−14
pull
Entries 92
Mean 90.59
Std Dev 38.35

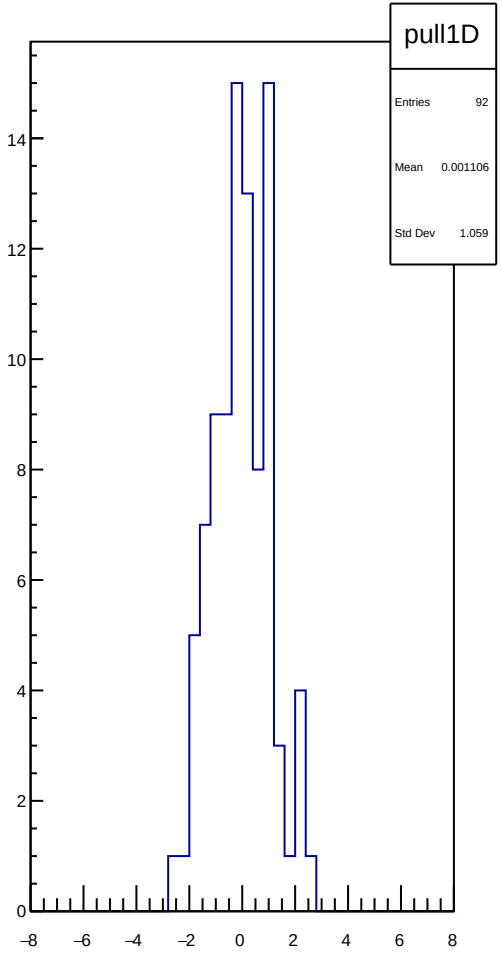

pull1D
Entries 92
Mean 0.0228
Std Dev 1.172

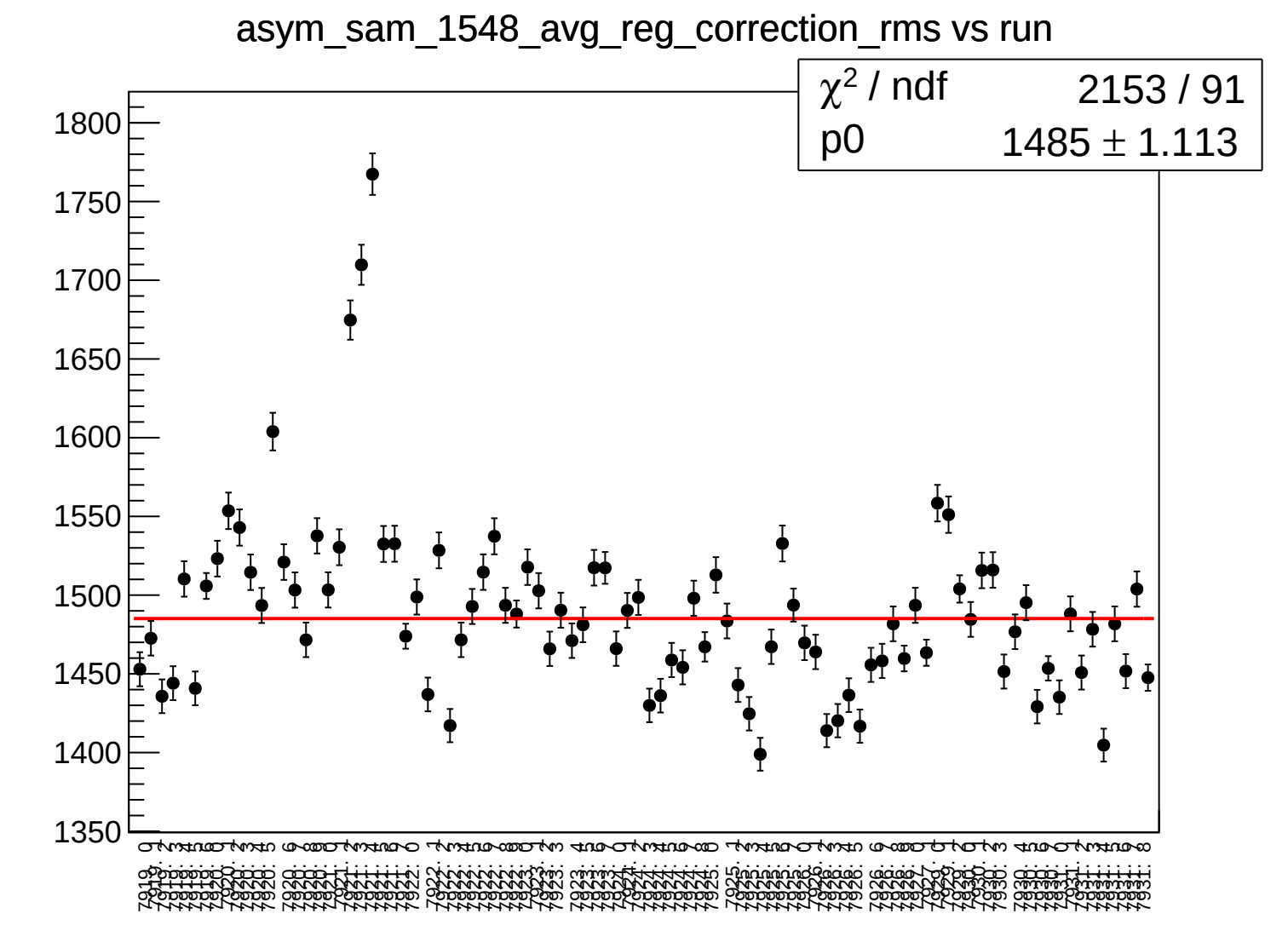

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.183e+05 / 91
p0 3.395e−11 ± 3.651e−14
0.25
0.2
0.15
0.1
0.05

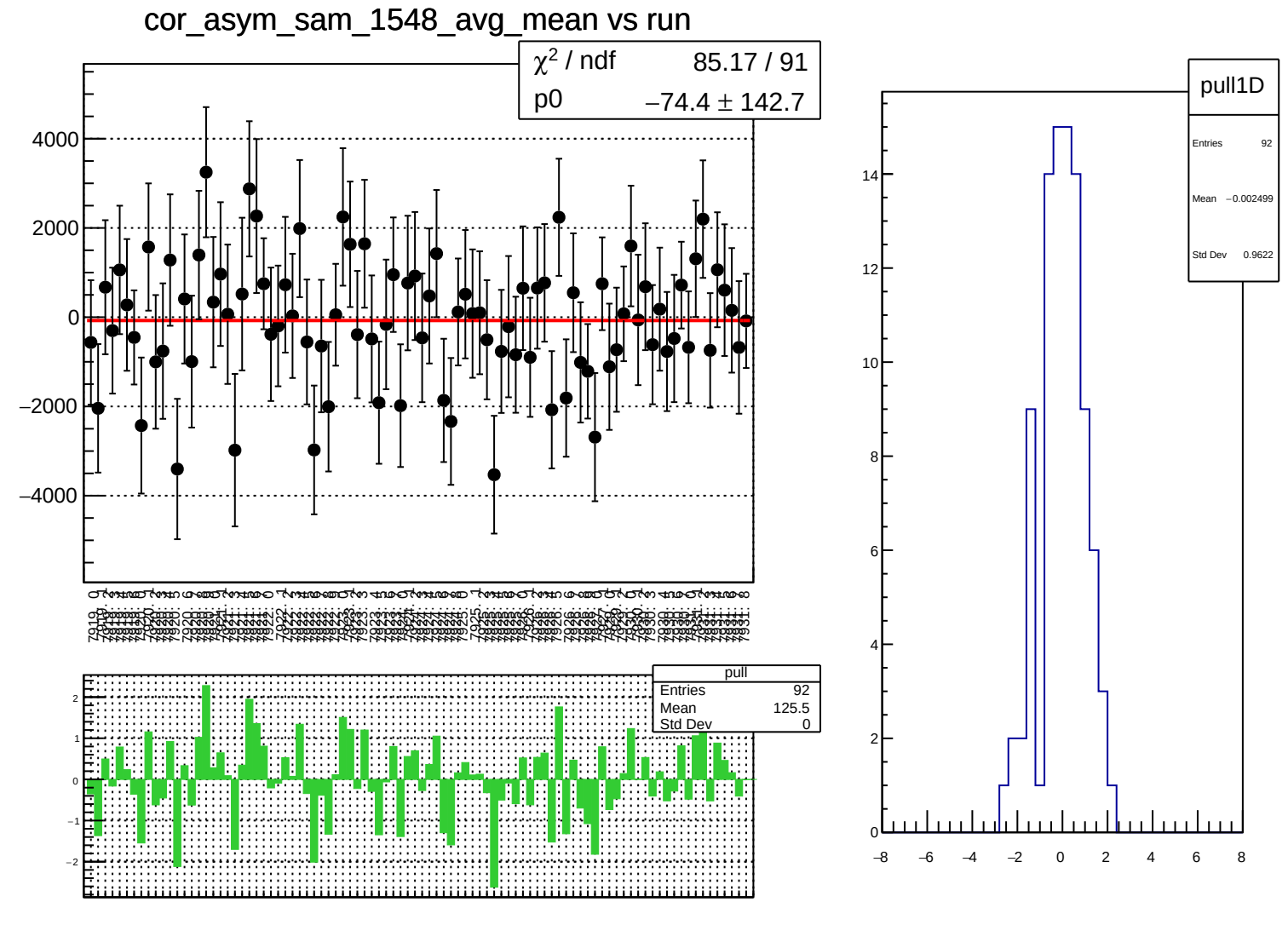

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 85.17 / 91
p0 −74.4 ± 142.7
4000
2000
0
−2000
−4000
pull
Entries 92
Mean 125.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.002499
Std Dev 0.9622
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

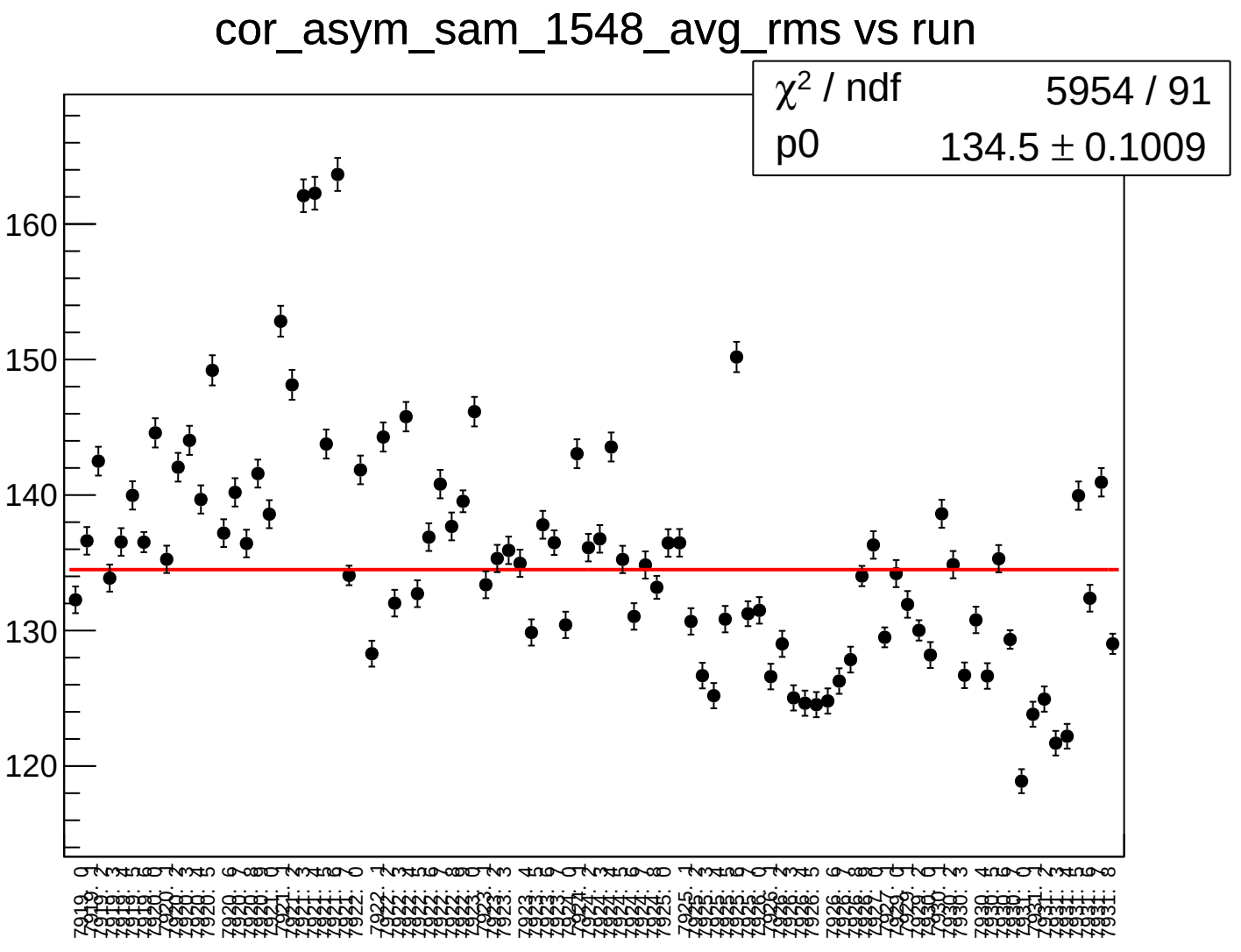

reg_asym_sam_1548_avg_rms vs run
χ^2 / ndf 5954 / 91
p0 134.5 ± 0.1009
160
150
140
130
120

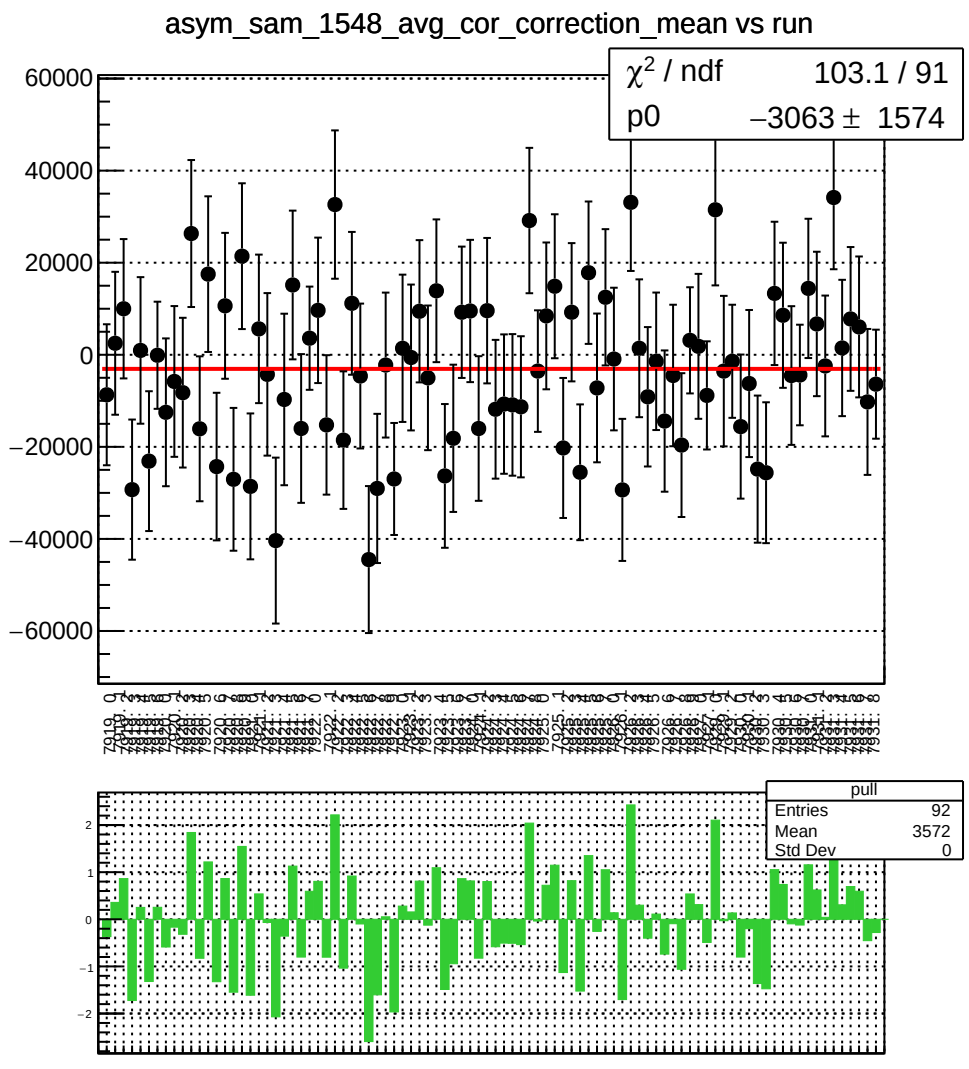

asym_sam_1548_avg_reg_correction_mean vs run
χ² / ndf 103.1 / 91
p0 −3063 ± 1574
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 3571
Std Dev 0
2
1
0
−1
−2

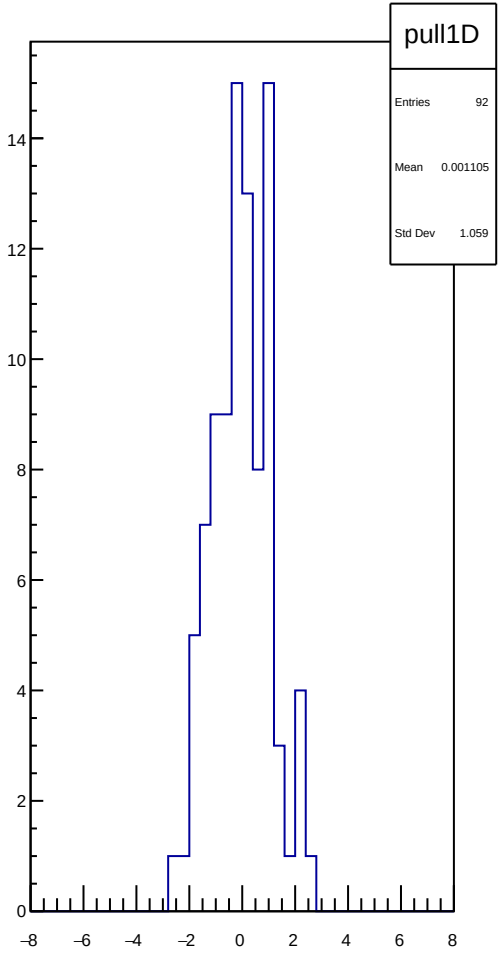

pull1D
Entries 92
Mean 0.001106
Std Dev 1.059
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

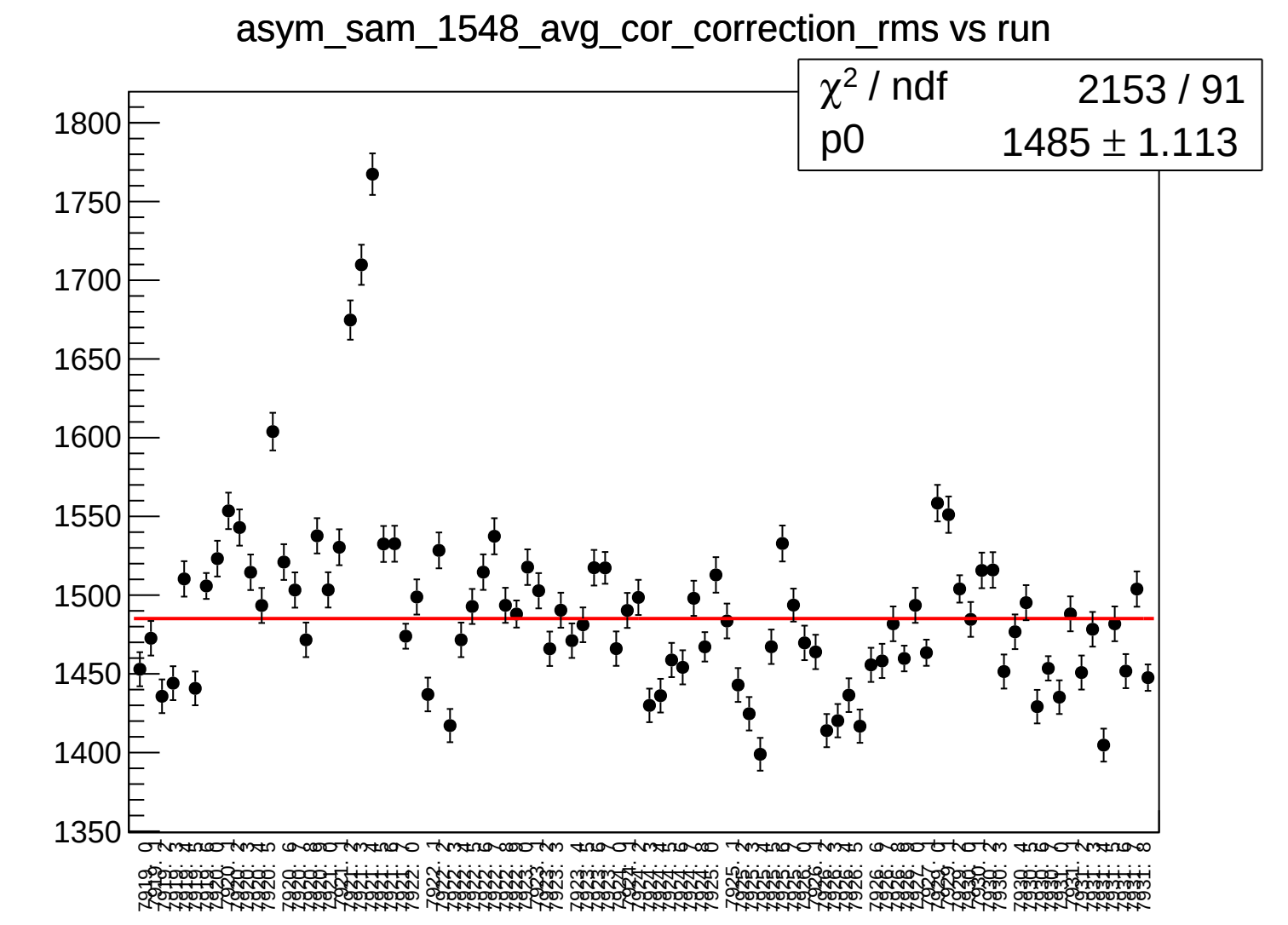

asym_sam_1548_avg_reg_correction_rms vs run
χ² / ndf 2153 / 91
p0 1485 ± 1.113
1800
1750
1700
1650
1600
1550
1500
1450
1400
1350

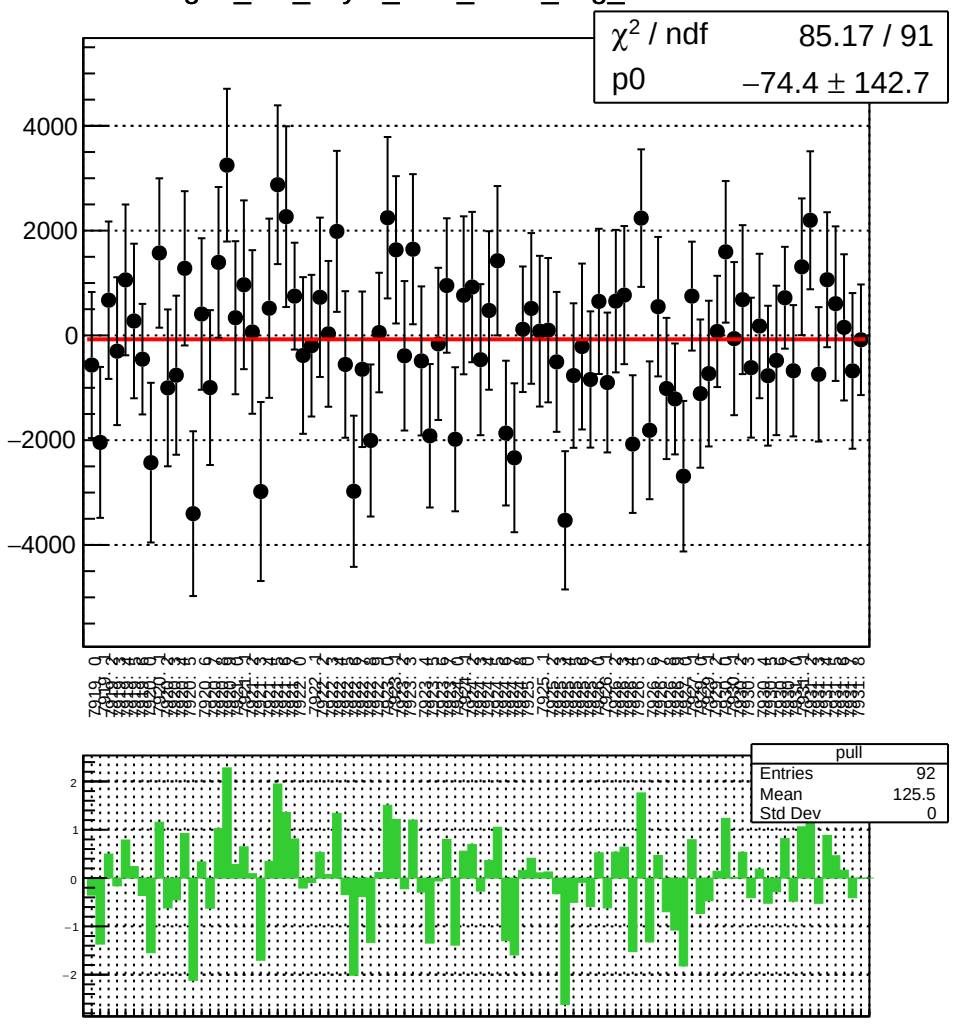

cor_asym_sam_1548_avg_mean vs run
χ² / ndf 85.17 / 91
p0 −74.4 ± 142.7
4000
2000
0
−2000
−4000
pull
Entries 92
Mean 125.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.002499
Std Dev 0.9622
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

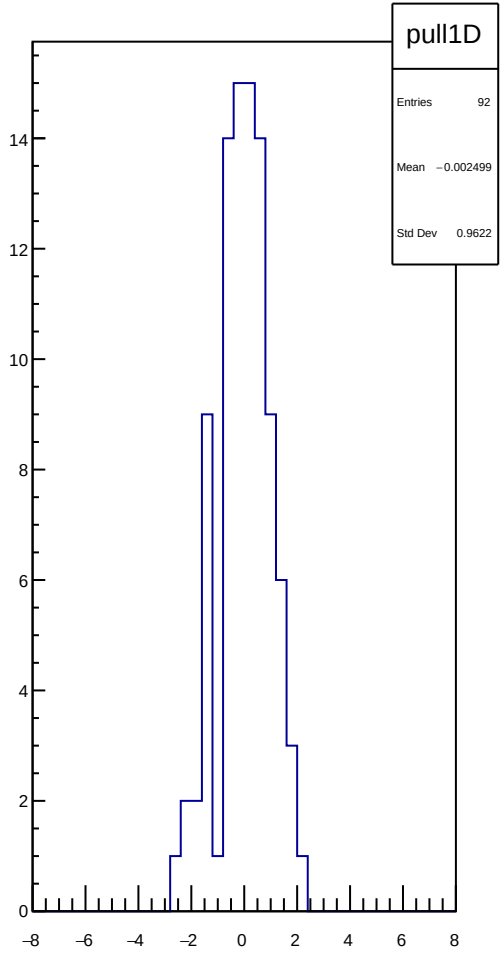

cor_asym_sam_1548_avg_rms vs run
χ² / ndf 5954 / 91
p0 134.5 ± 0.1009
160
150
140
130
120

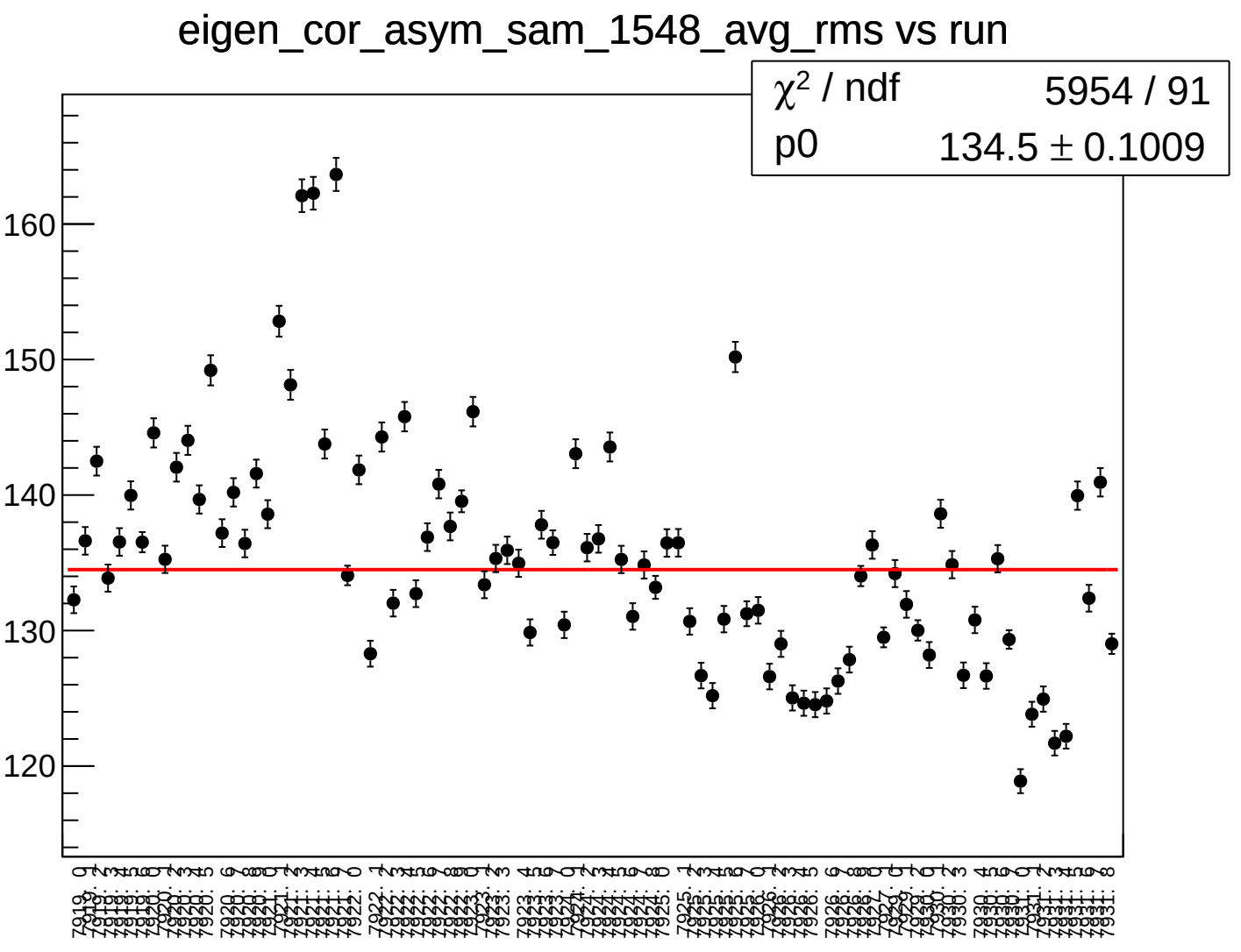

asym_sam_1548_avg_cor_correction_mean vs run
χ² / ndf 103.1 / 91
p0 −3063 ± 1574
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 3572
Std Dev 0
2
1
0
−1
−2

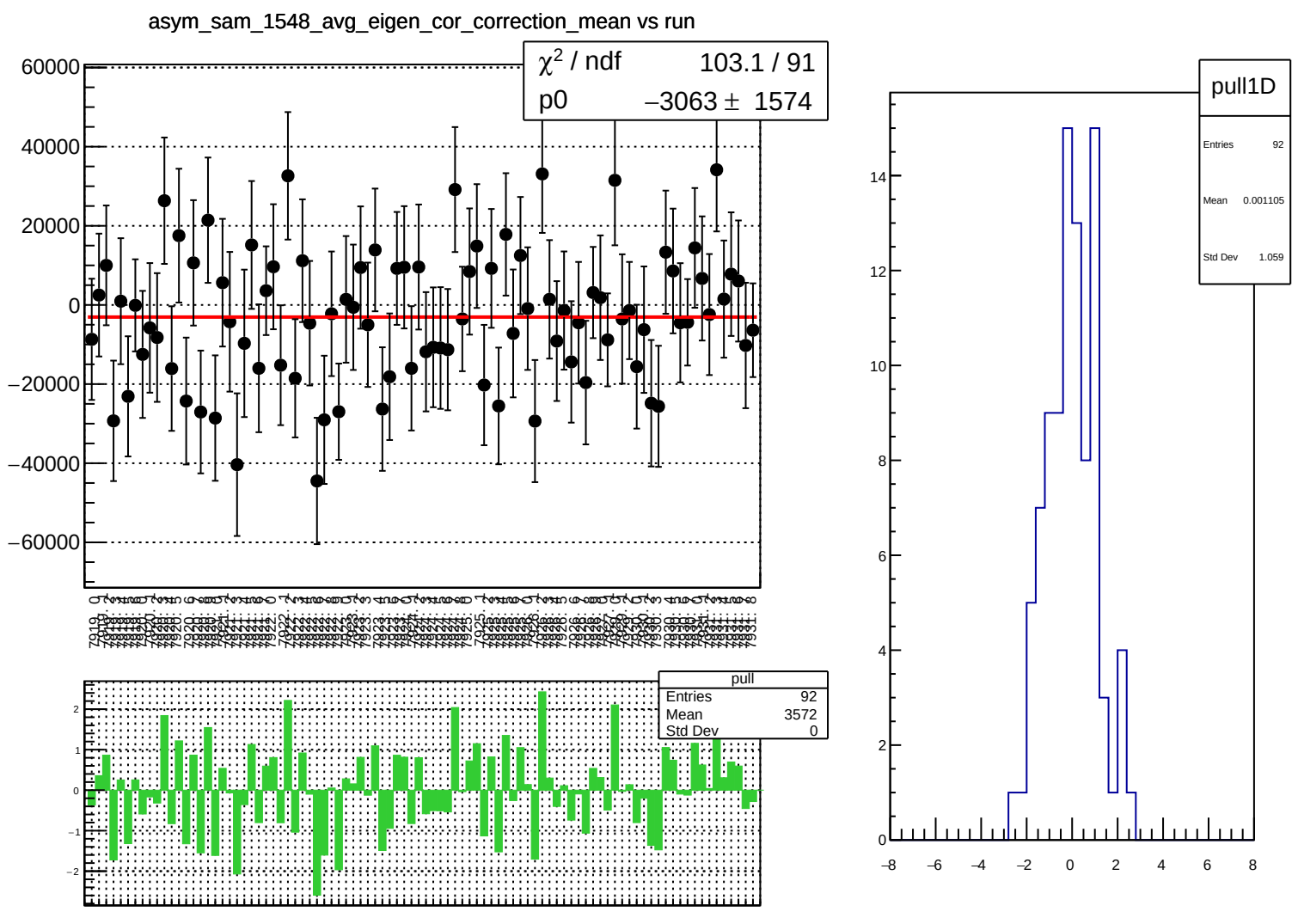

pull1D
Entries 92
Mean 0.001105
Std Dev 1.059
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

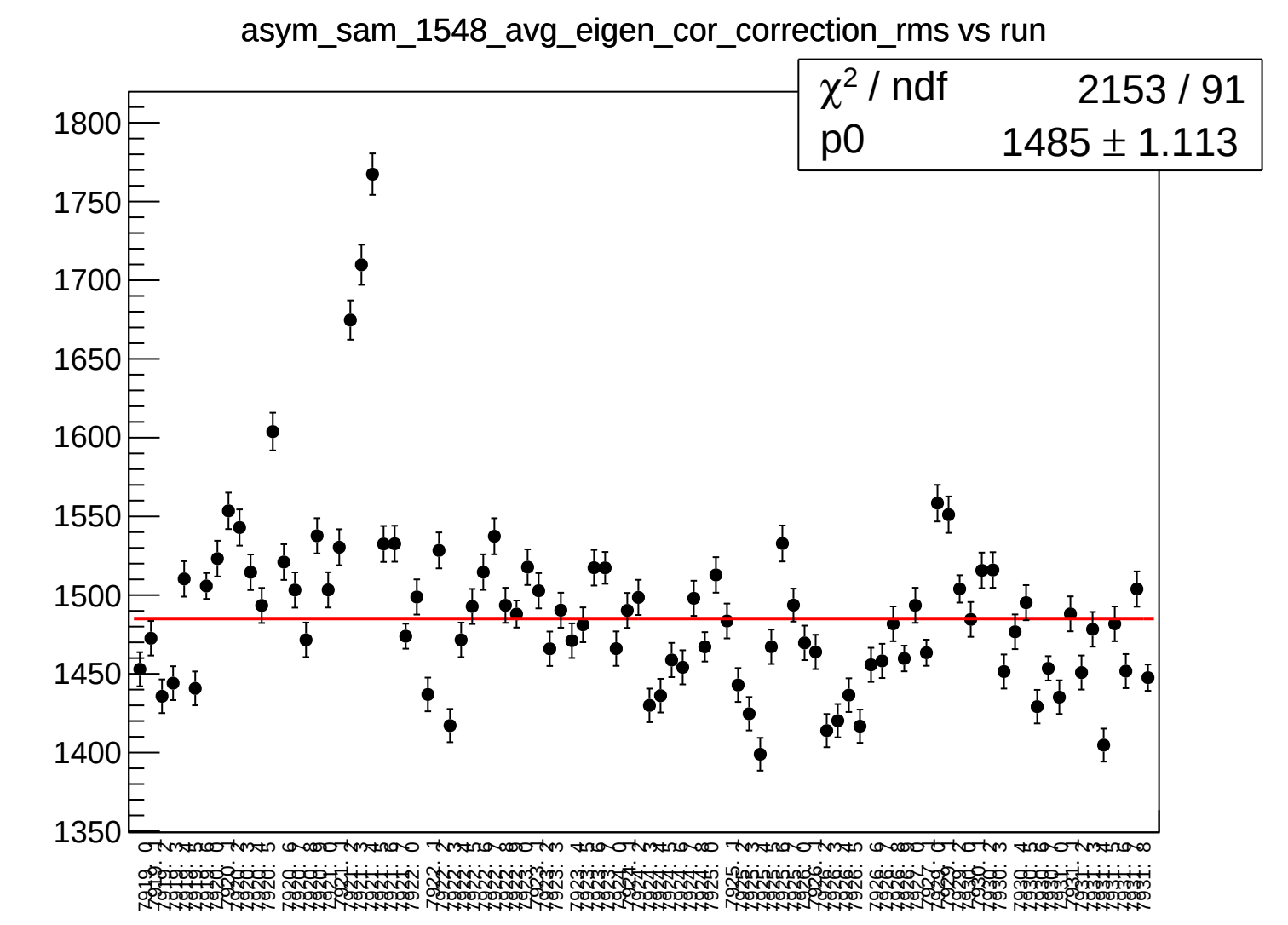

asym_sam_1548_avg_cor_correction_rms vs run
χ² / ndf 2153 / 91
p0 1485 ± 1.113
1800
1750
1700
1650
1600
1550
1500
1450
1400
1350

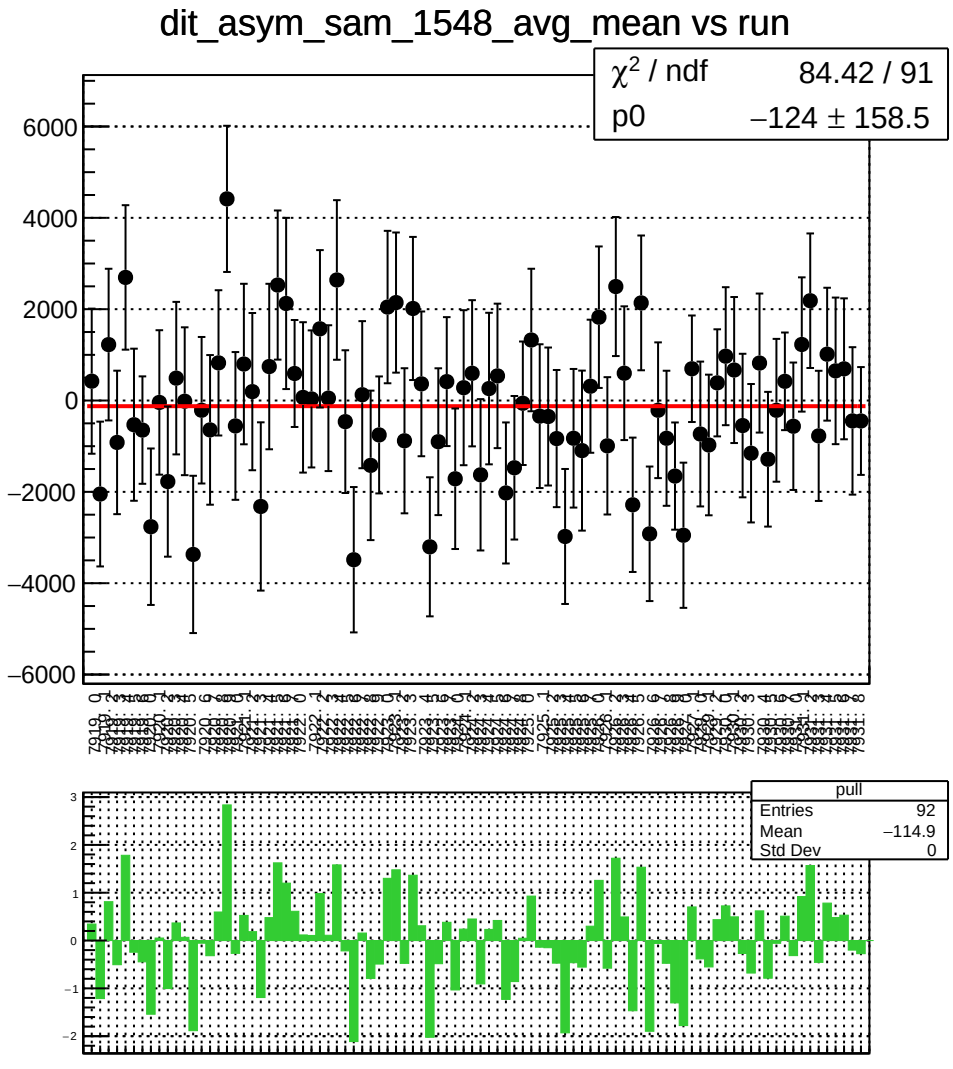

eigen_cor_asym_sam_1548_avg_mean vs run
χ² / ndf 85.17 / 91
p0 −74.4 ± 142.7
4000
2000
0
−2000
−4000
pull
Entries 92
Mean 125.5
Std Dev 0
2
1
0
−1
−2

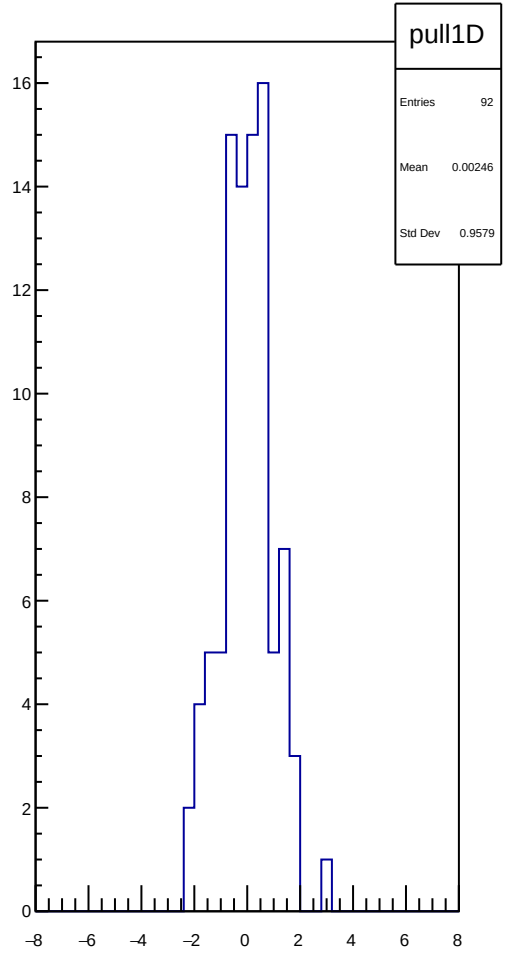

pull1D
Entries 92
Mean −0.002499
Std Dev 0.9622
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

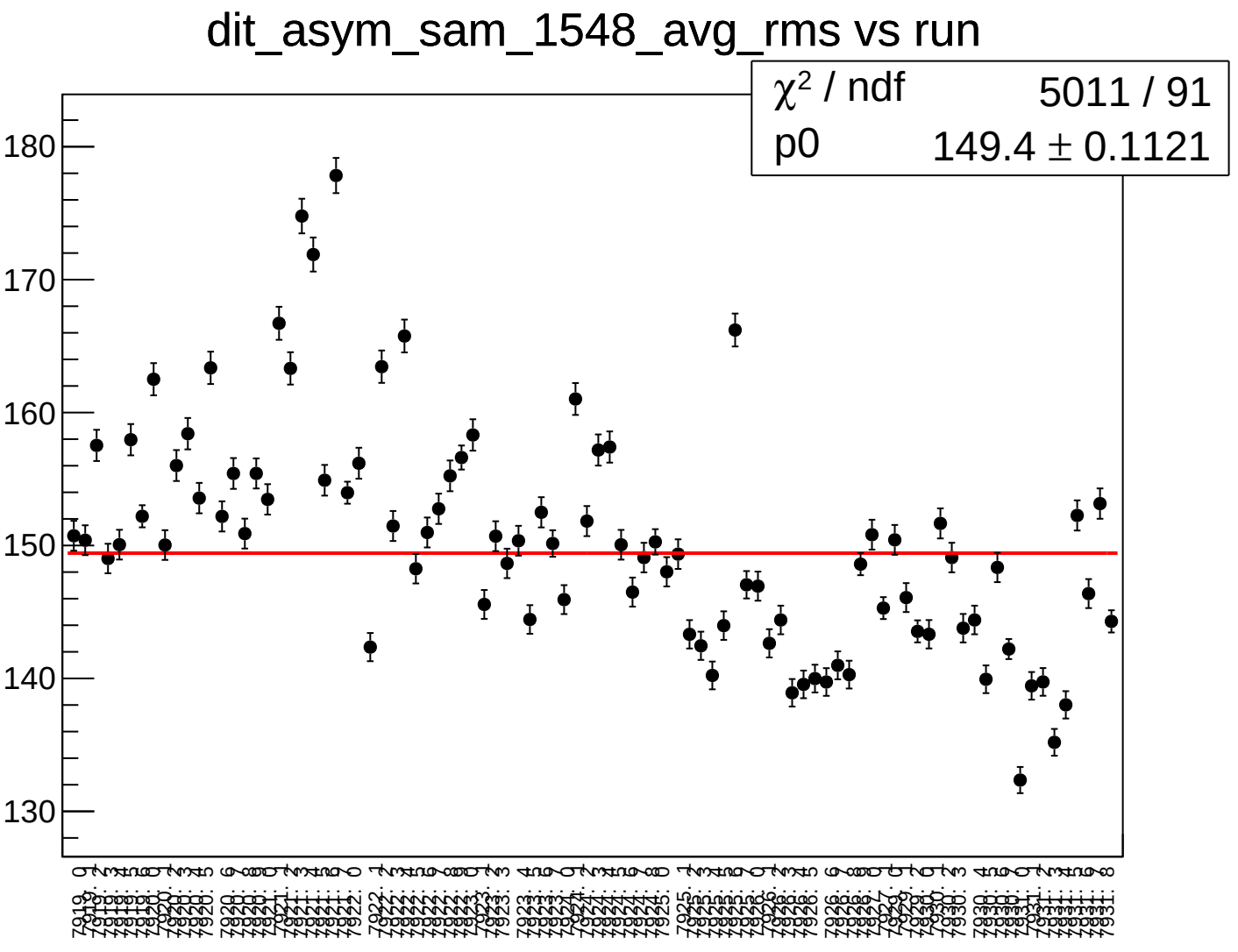

eigen_cor_asym_sam_1548_avg_rms vs run
χ² / ndf 5954 / 91
p0 134.5 ± 0.1009
160
150
140
130
120

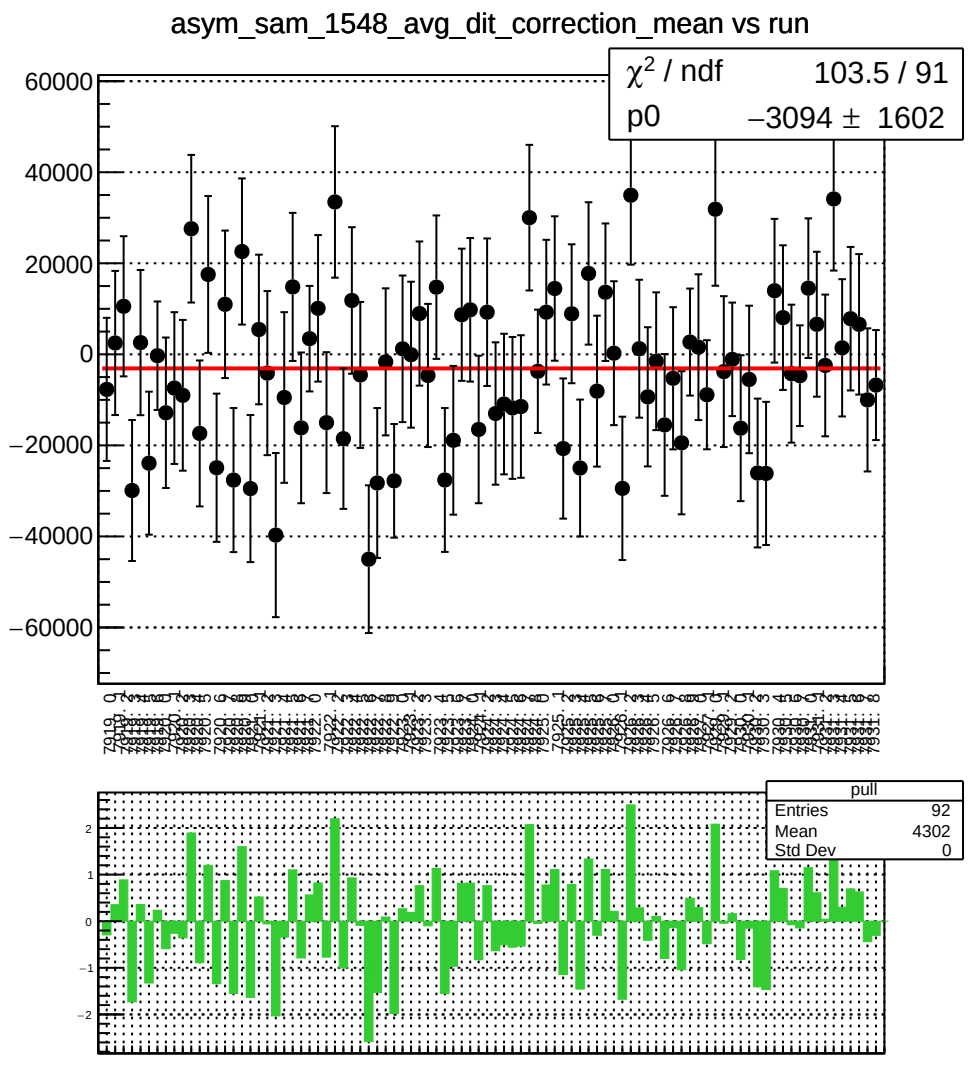

asym_sam_1548_avg_eigen_cor_correction_mean vs run
χ² / ndf 103.1 / 91
p0 −3063 ± 1574
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 3572
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.001105
Std Dev 1.059
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

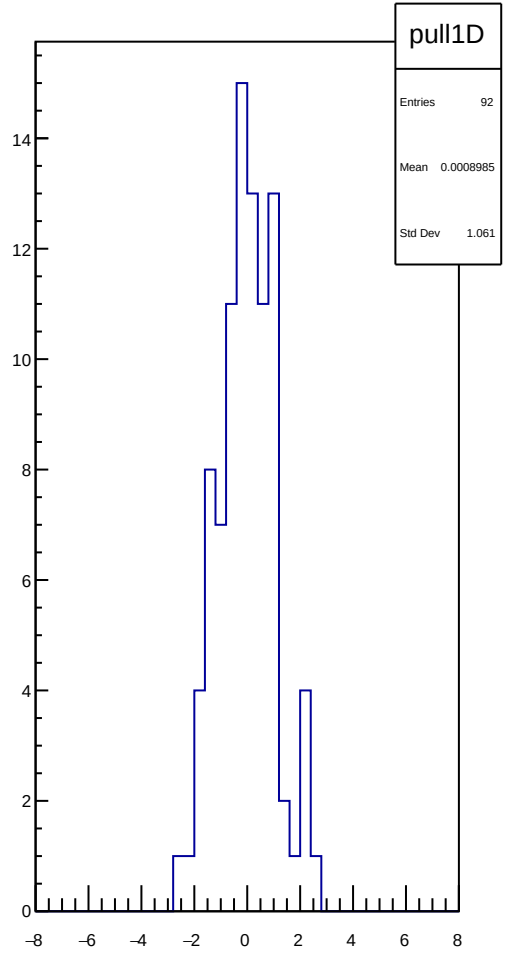

asym_sam_1548_avg_eigen_cor_correction_rms vs run
χ² / ndf 2153 / 91
p0 1485 ± 1.113
1800
1750
1700
1650
1600
1550
1500
1450
1400
1350

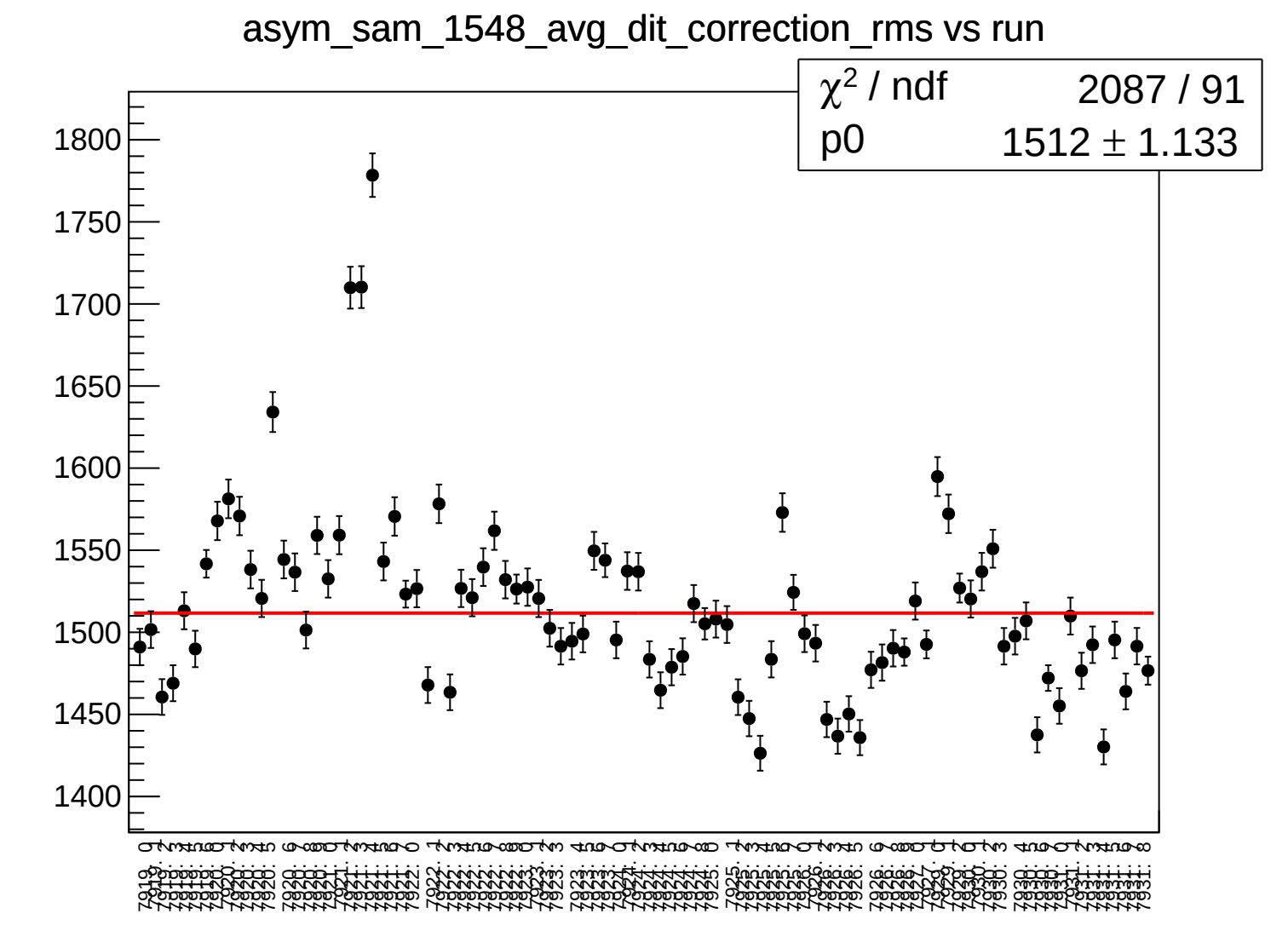

dit_asym_sam_1548_avg_mean vs run
χ² / ndf 84.42 / 91
p0 −124 ± 158.5
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 92
Mean −114.9
Std Dev 0
3
2
1
0
−1
−2

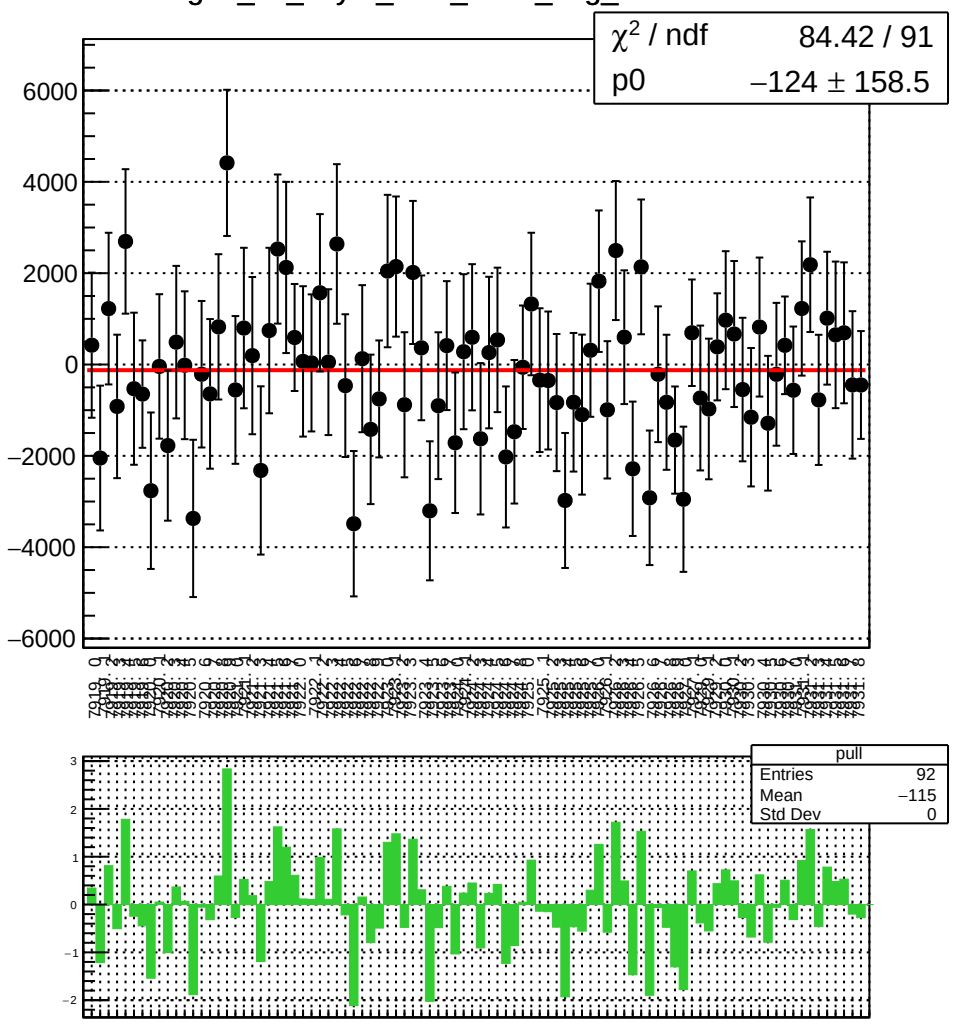

pull1D
Entries 92
Mean 0.00246
Std Dev 0.9579
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

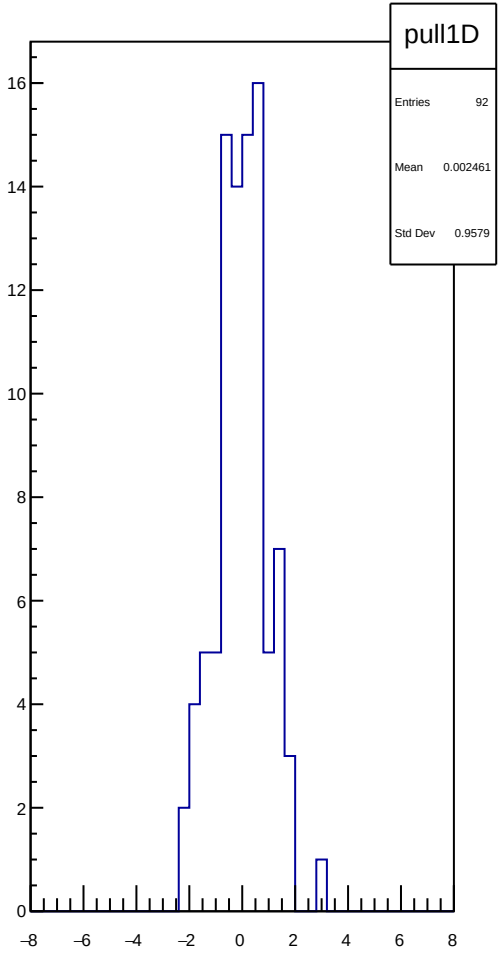

dit_asym_sam_1548_avg_rms vs run
χ² / ndf 5011 / 91
p0 149.4 ± 0.1121
180
170
160
150
140
130

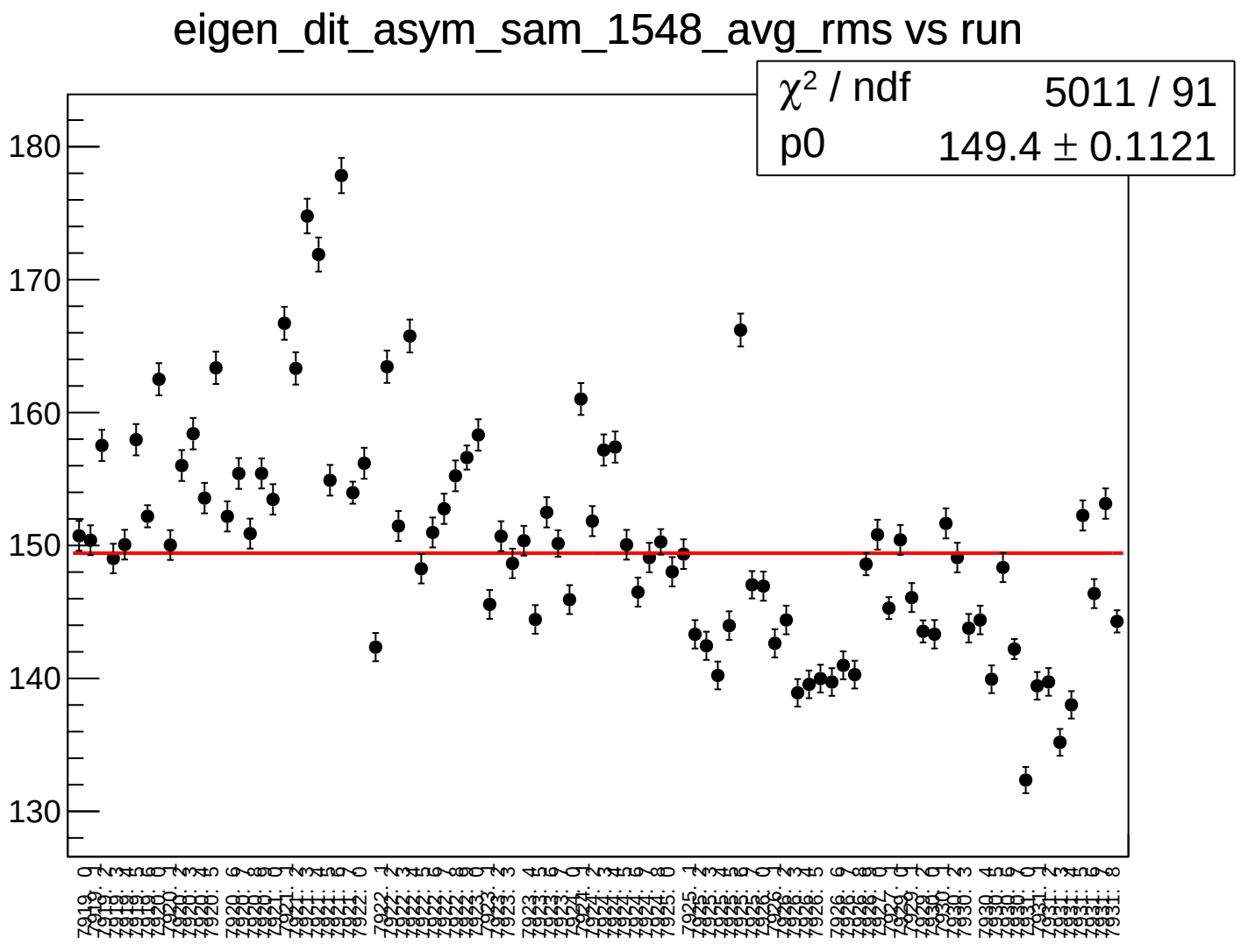

asym_sam_1548_avg_dit_correction_mean vs run
χ² / ndf 103.5 / 91
p0 −3094 ± 1602
pull
Entries 92
Mean 4302
Std Dev 0

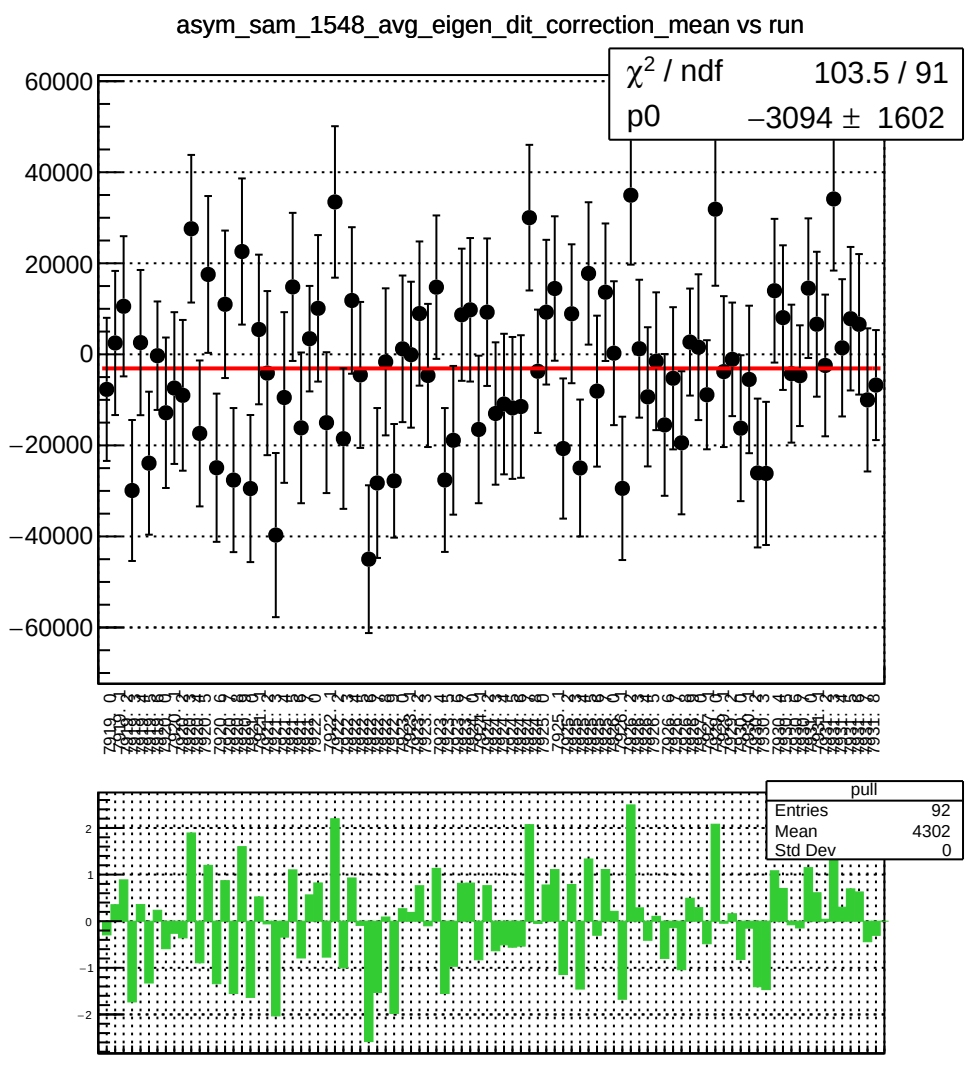

pull1D
Entries 92
Mean 0.0008985
Std Dev 1.061

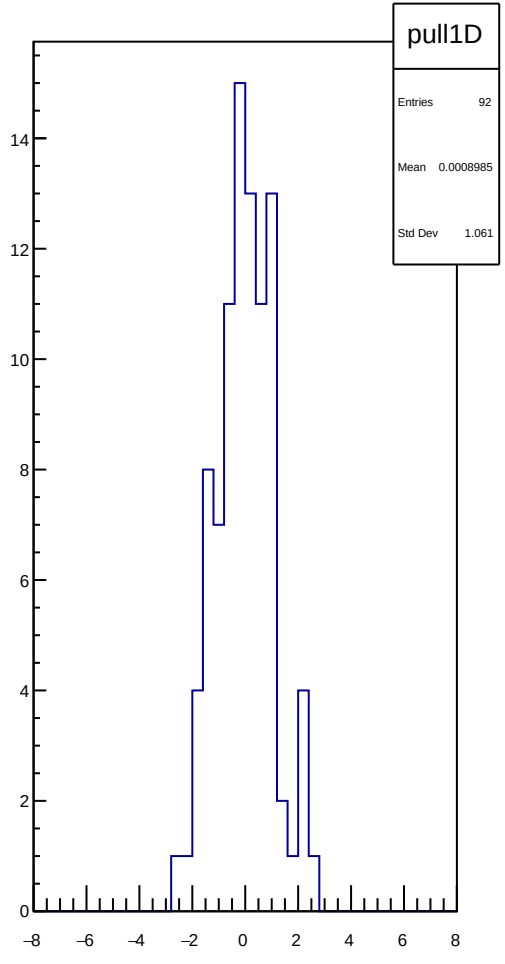

asym_sam_1548_avg_dit_correction_rms vs run
χ² / ndf 2087 / 91
p0 1512 ± 1.133
1800
1750
1700
1650
1600
1550
1500
1450
1400

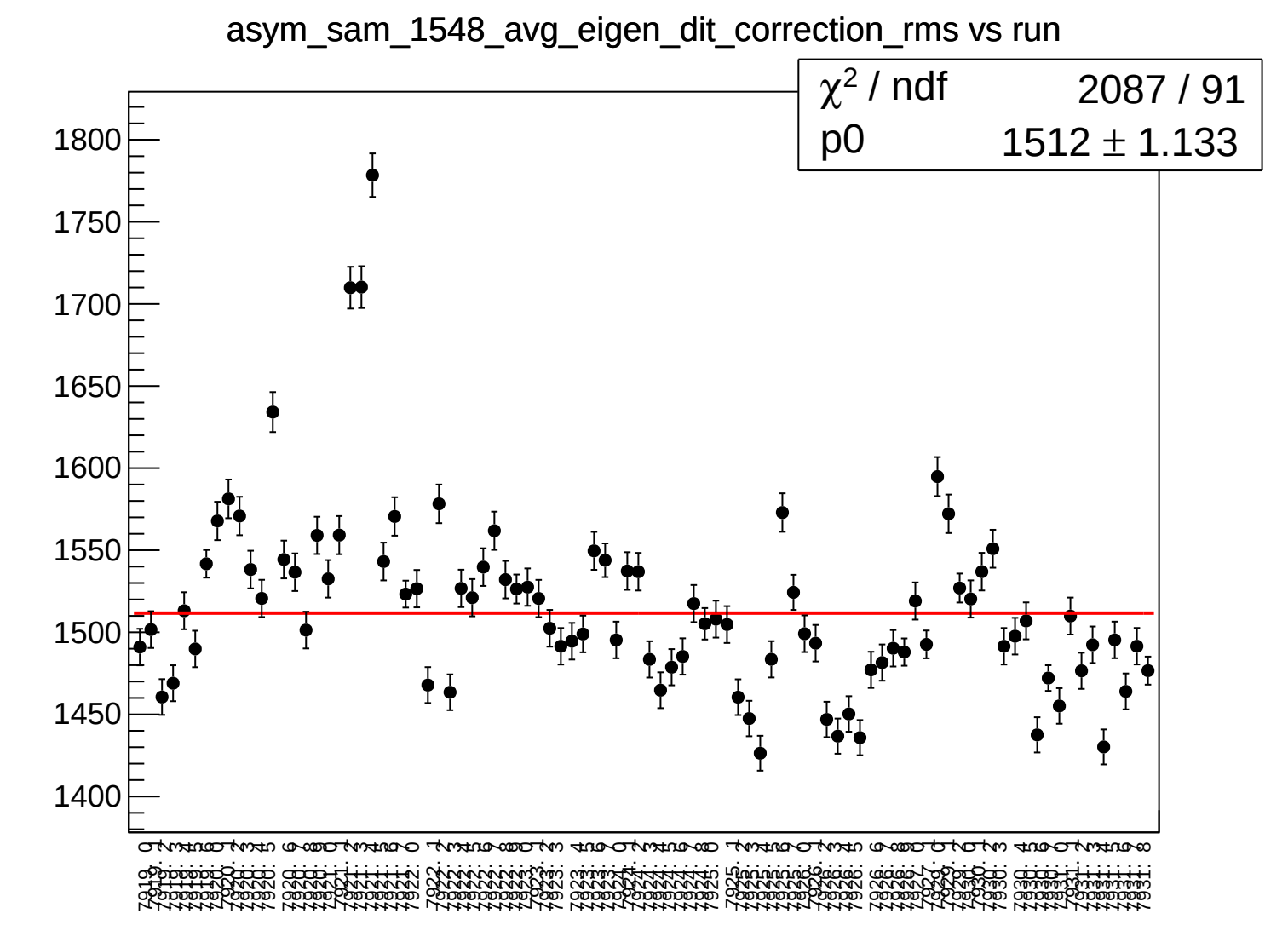

eigen_dit_asym_sam_1548_avg_mean vs run
χ^2 / ndf 84.42 / 91
p0 −124 ± 158.5
pull
Entries 92
Mean −115
Std Dev 0

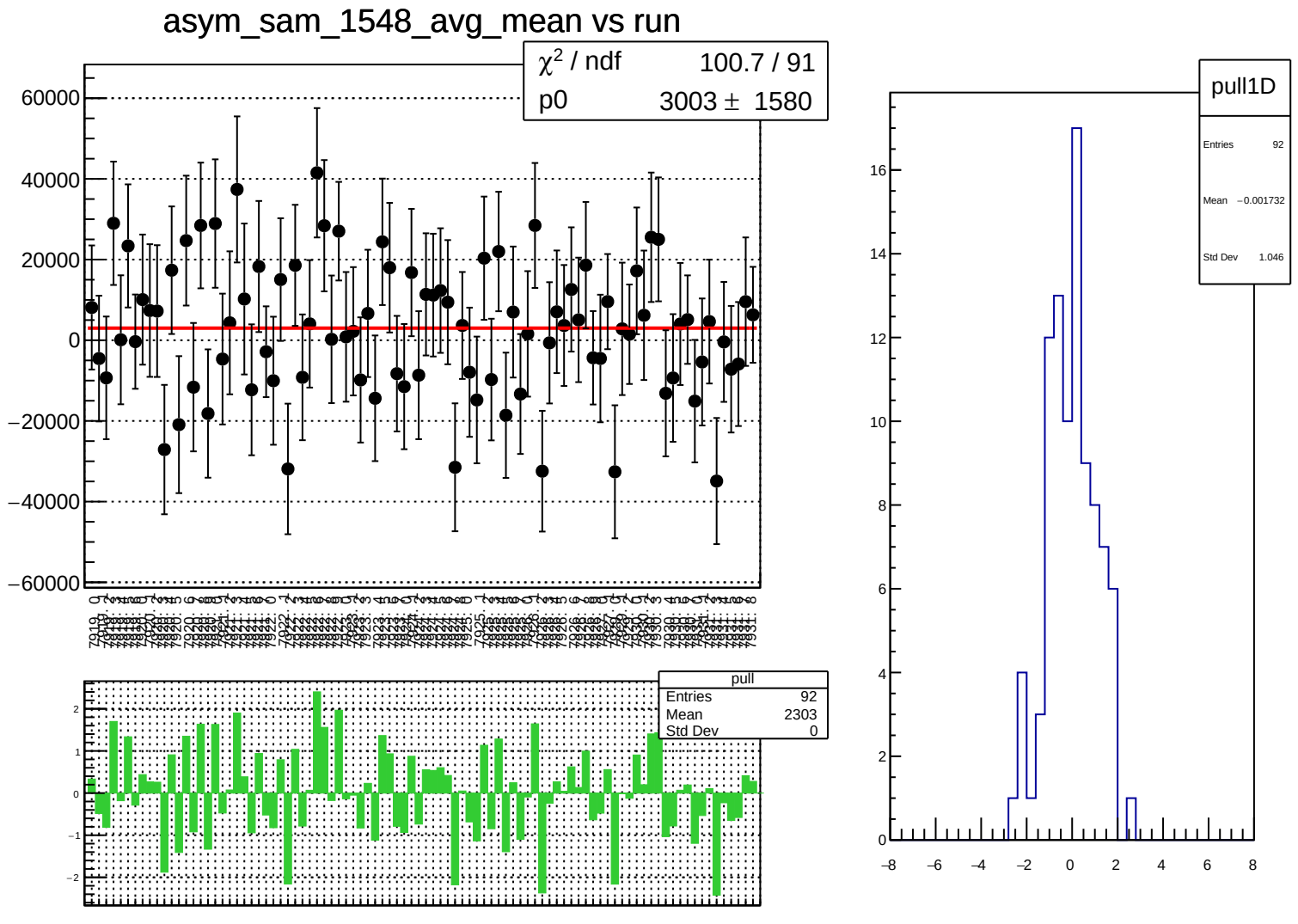

pull1D
Entries 92
Mean 0.002461
Std Dev 0.9579

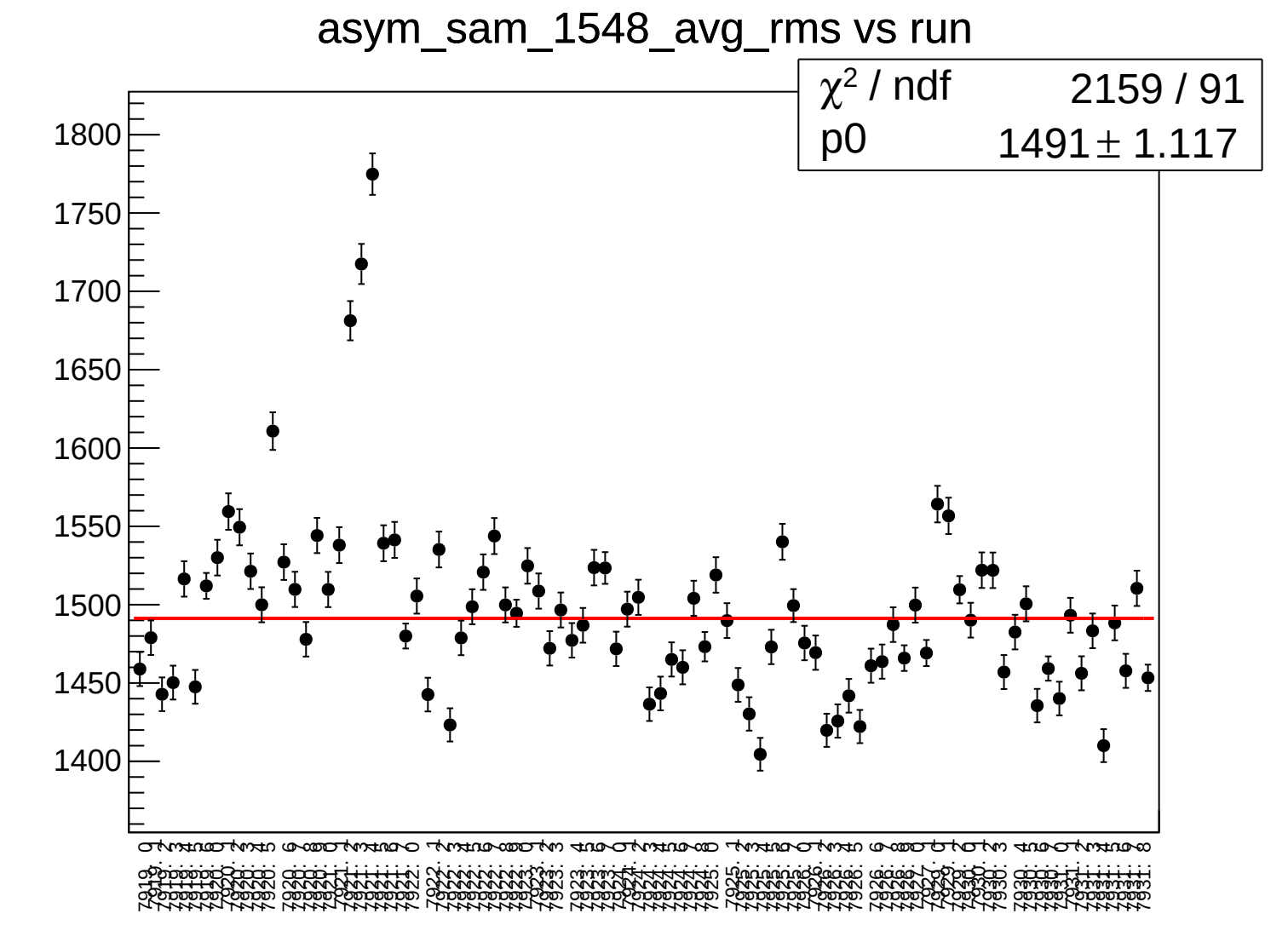

eigen_dit_asym_sam_1548_avg_rms vs run
χ² / ndf 5011 / 91
p0 149.4 ± 0.1121
180
170
160
150
140
130

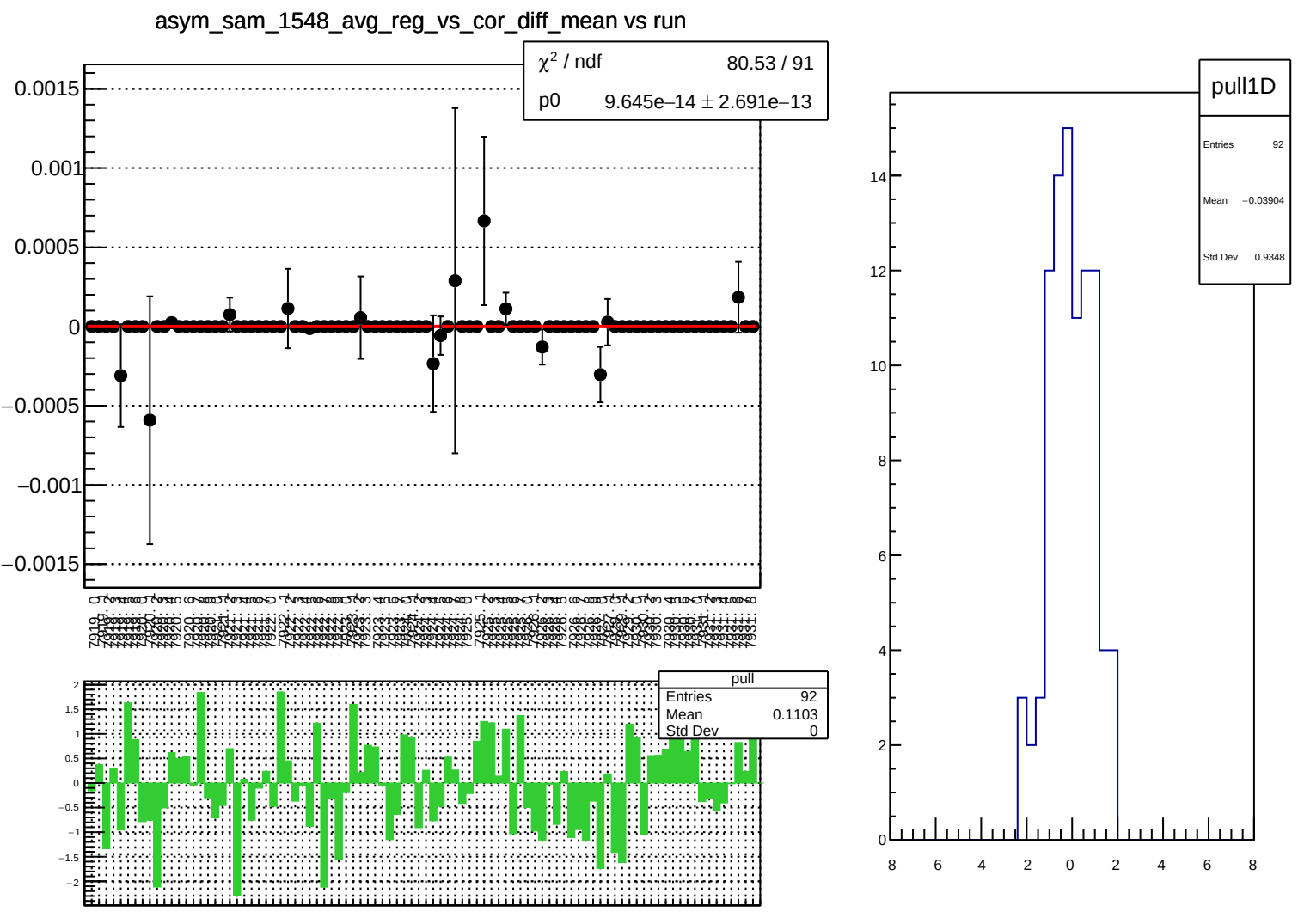

asym_sam_1548_avg_eigen_dit_correction_mean vs run
χ² / ndf 103.5 / 91
p0 −3094 ± 1602
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 4302
Std Dev 0
2
1
0
−1
−2

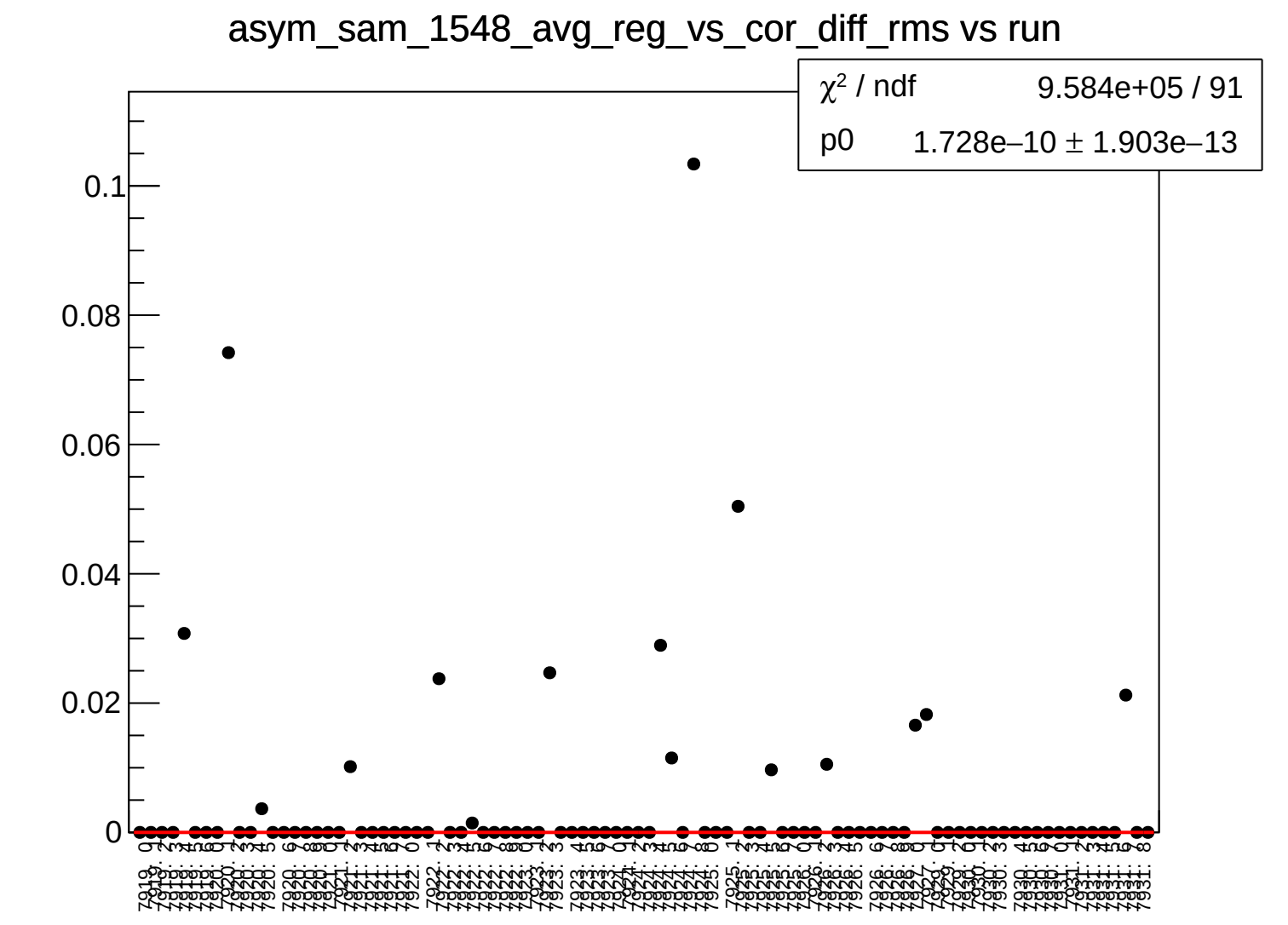

pull1D
Entries 92
Mean 0.0008985
Std Dev 1.061
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

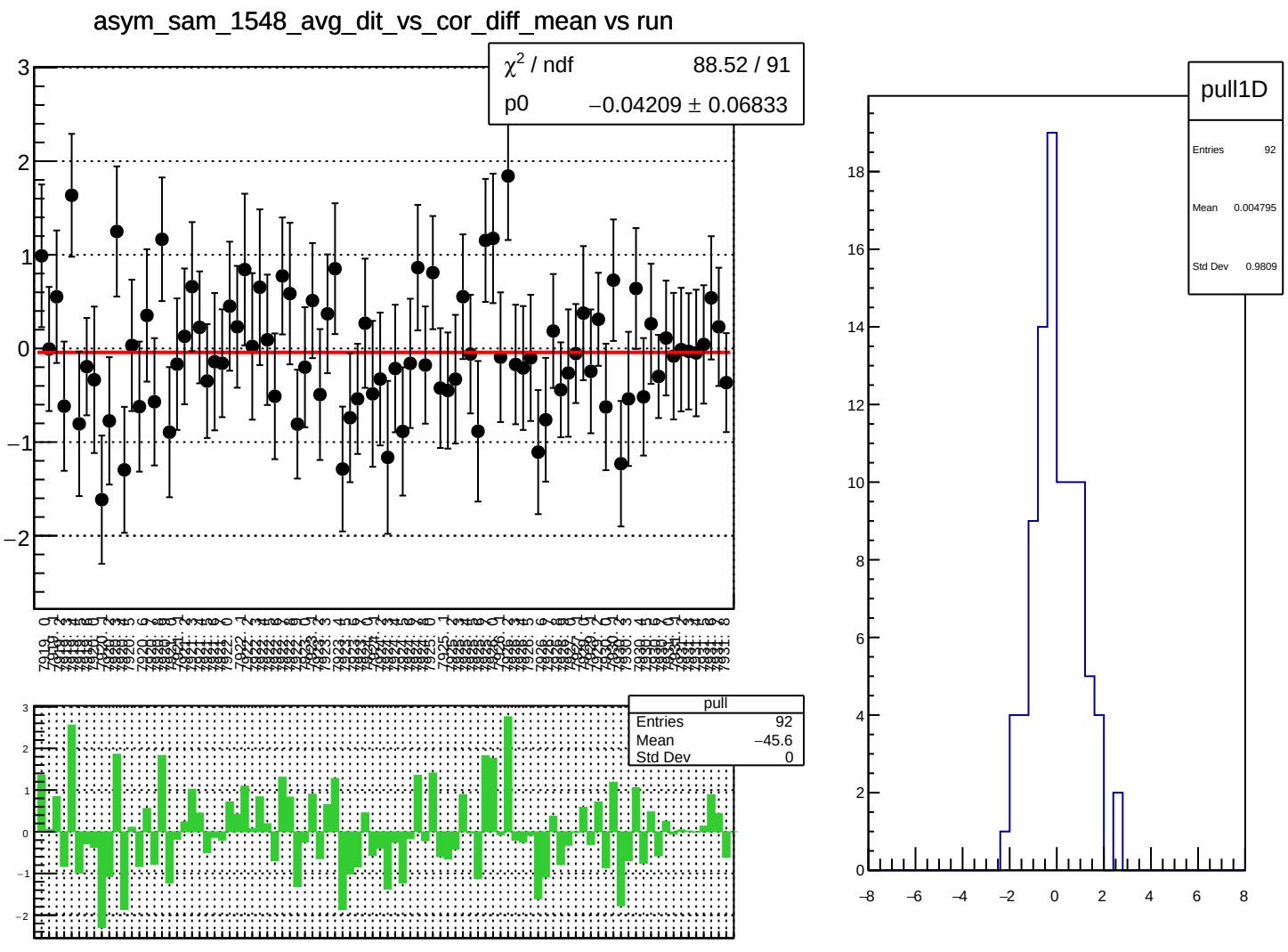

asym_sam_1548_avg_eigen_dit_correction_rms vs run
χ^2 / ndf 2087 / 91
p0 1512 ± 1.133
1800
1750
1700
1650
1600
1550
1500
1450
1400

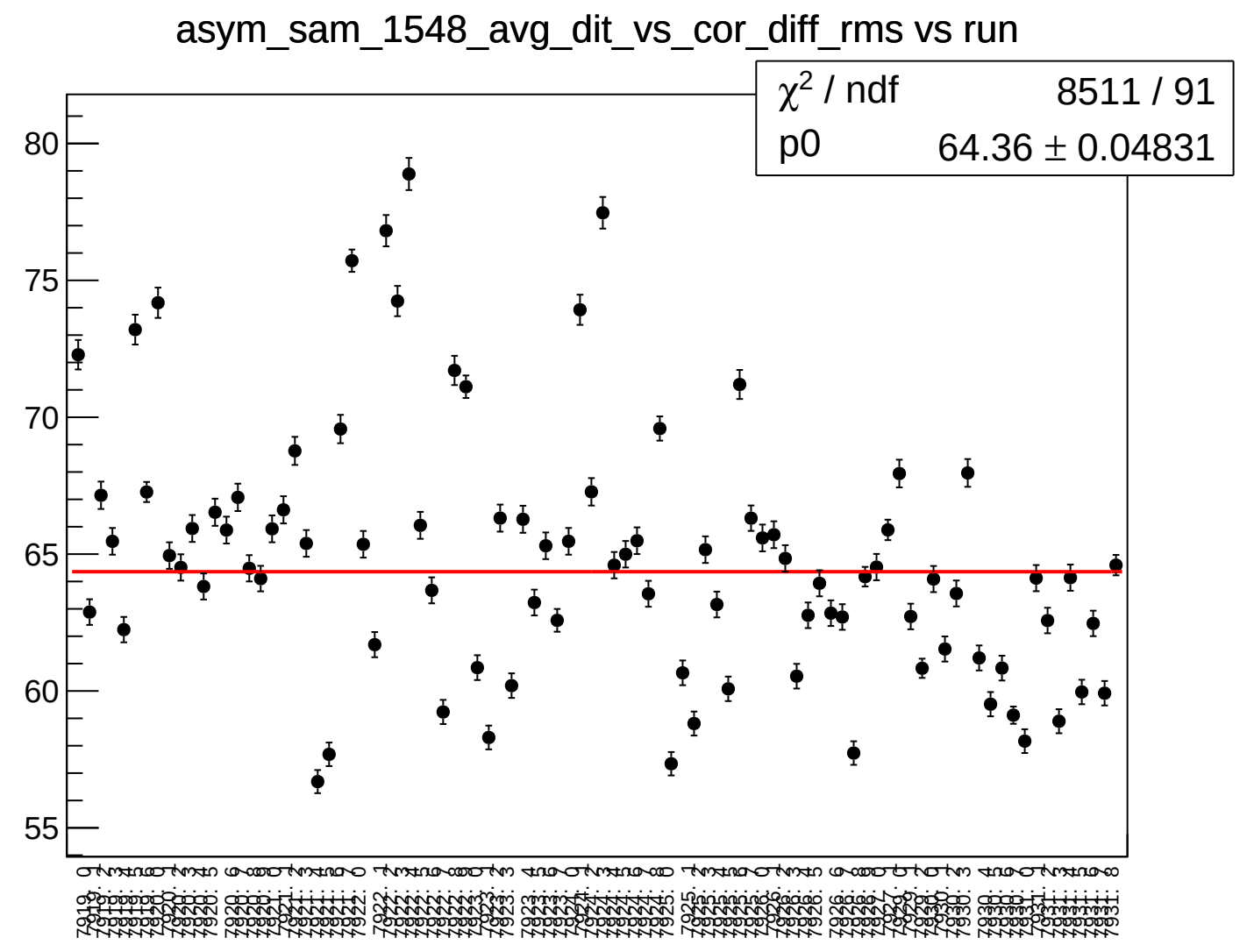

asym_sam_1548_avg_mean vs run
χ² / ndf 100.7 / 91
p0 3003 ± 1580
pull
Entries 92
Mean 2303
Std Dev 0
pull1D
Entries 92
Mean −0.001732
Std Dev 1.046

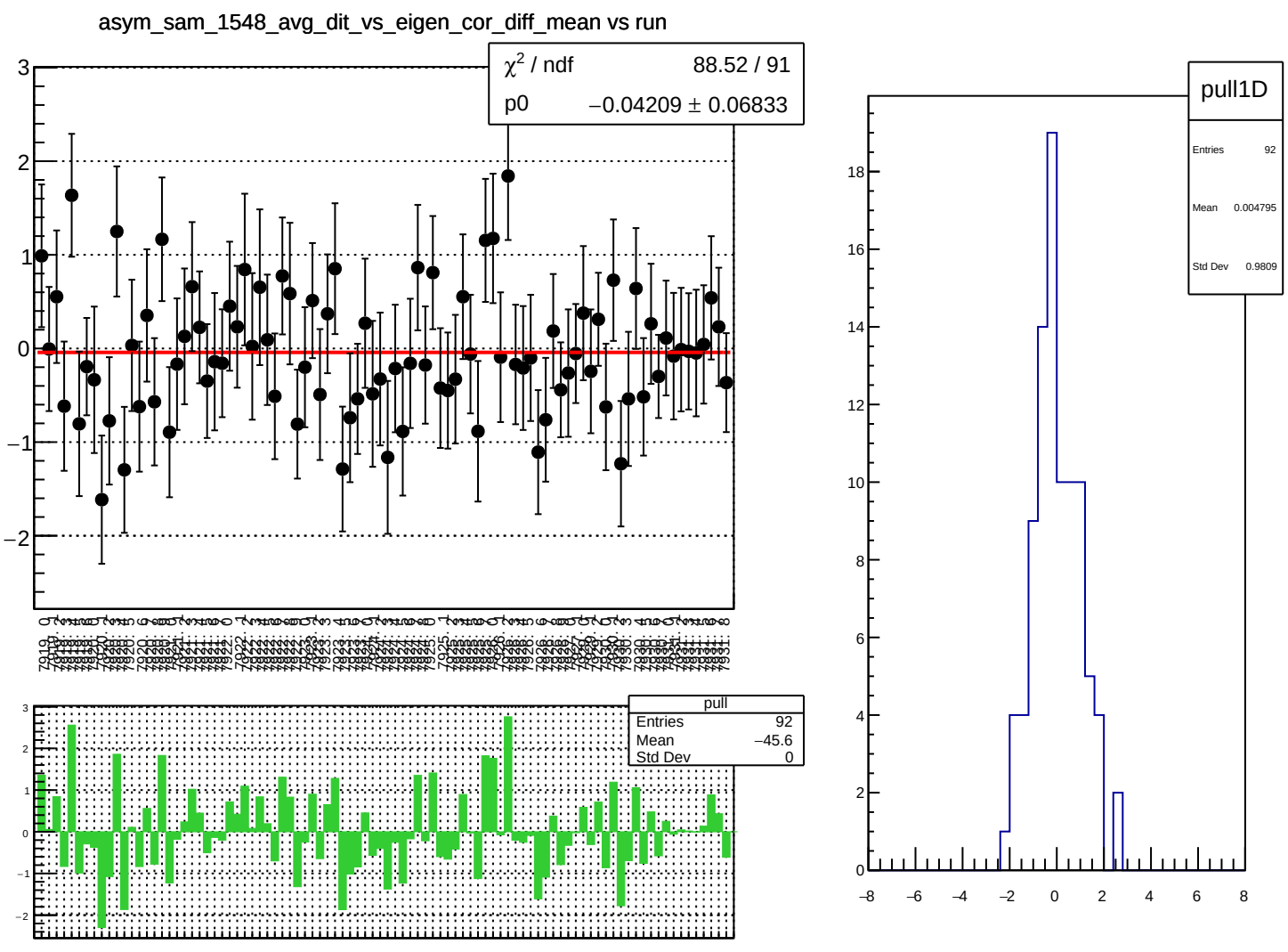

asym_sam_1548_avg_rms vs run
χ² / ndf 2159 / 91
p0 1491 ± 1.117
1800
1750
1700
1650
1600
1550
1500
1450
1400

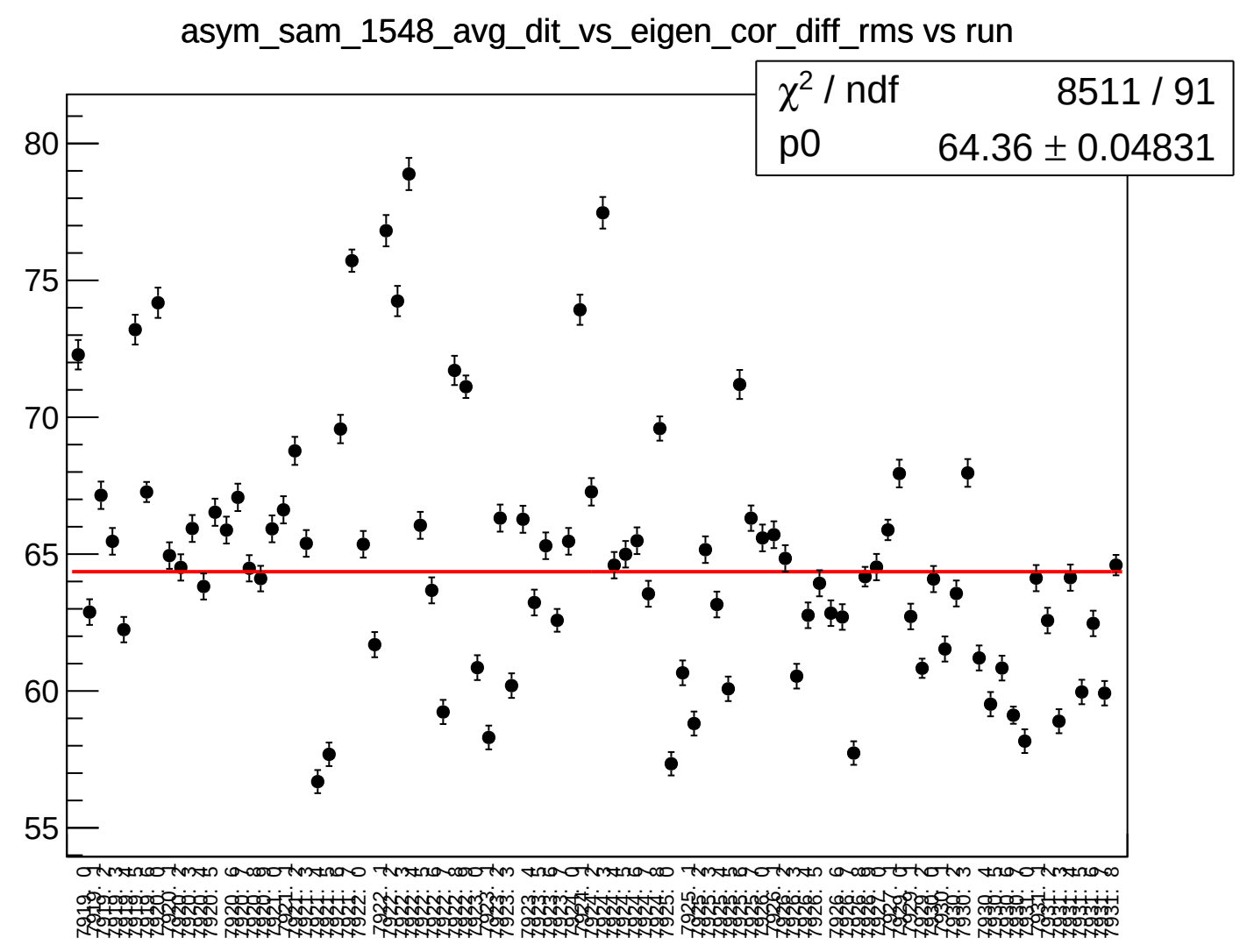

asym_sam_1548_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 80.53 / 91
p0 9.645e−14 ± 2.691e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 92
Mean 0.1103
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean −0.03904
Std Dev 0.9348
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

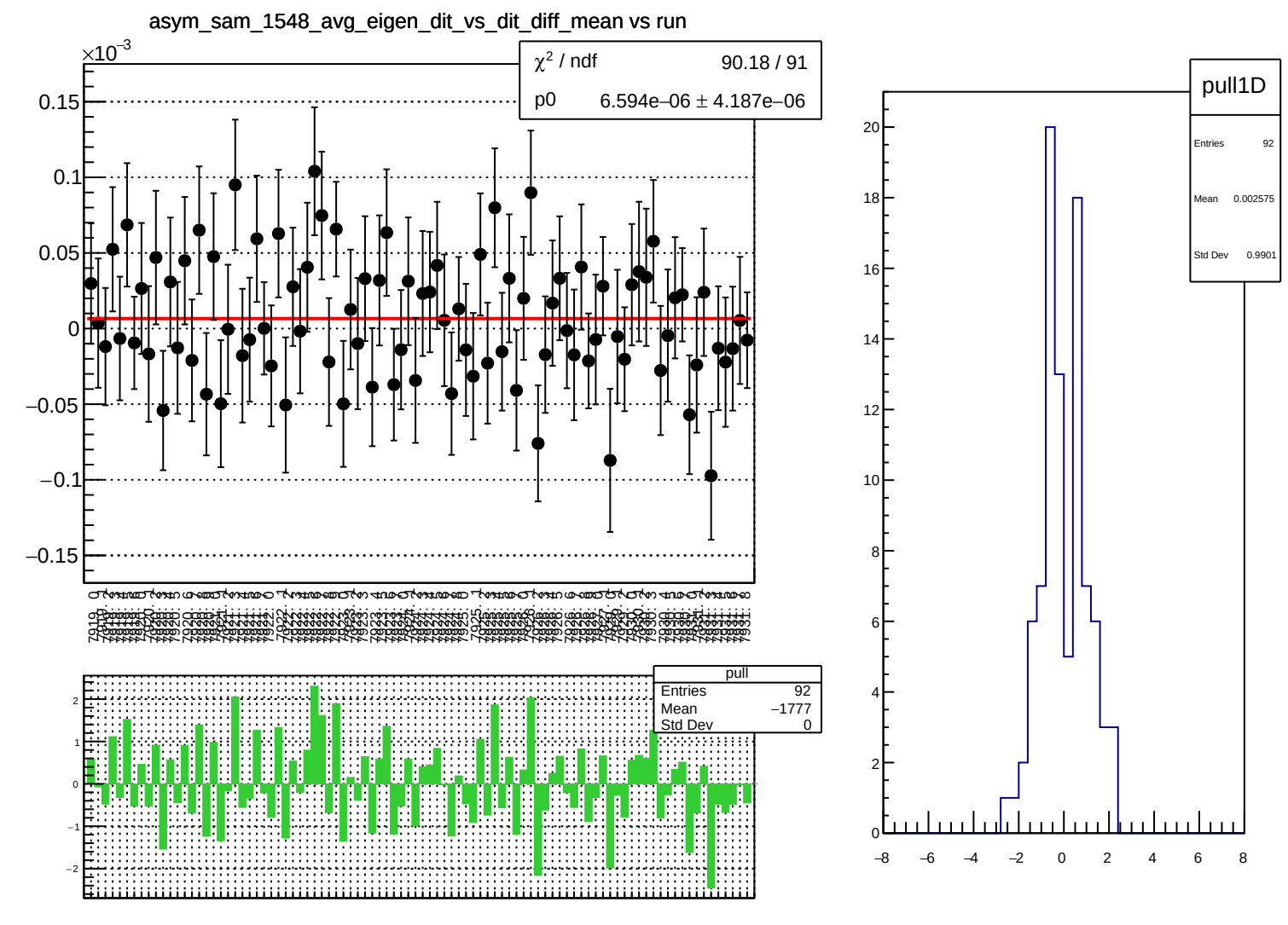

asym_sam_1548_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.584e+05 / 91
p0 1.728e−10 ± 1.903e−13
0.1
0.08
0.06
0.04
0.02
0

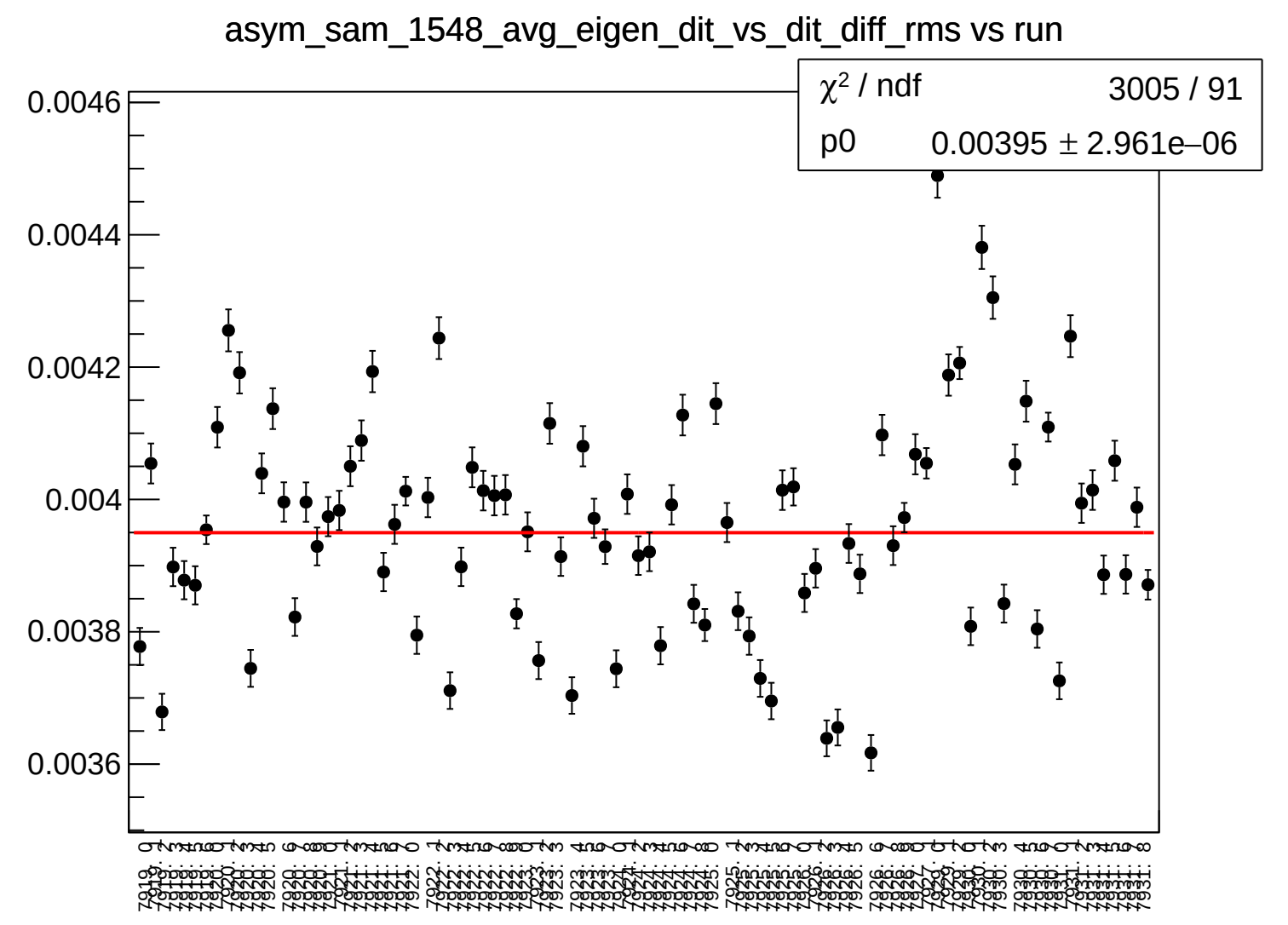

asym_sam_1548_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 88.52 / 91
p0 −0.04209 ± 0.06833
pull
Entries 92
Mean −45.6
Std Dev 0
pull1D
Entries 92
Mean 0.004795
Std Dev 0.9809

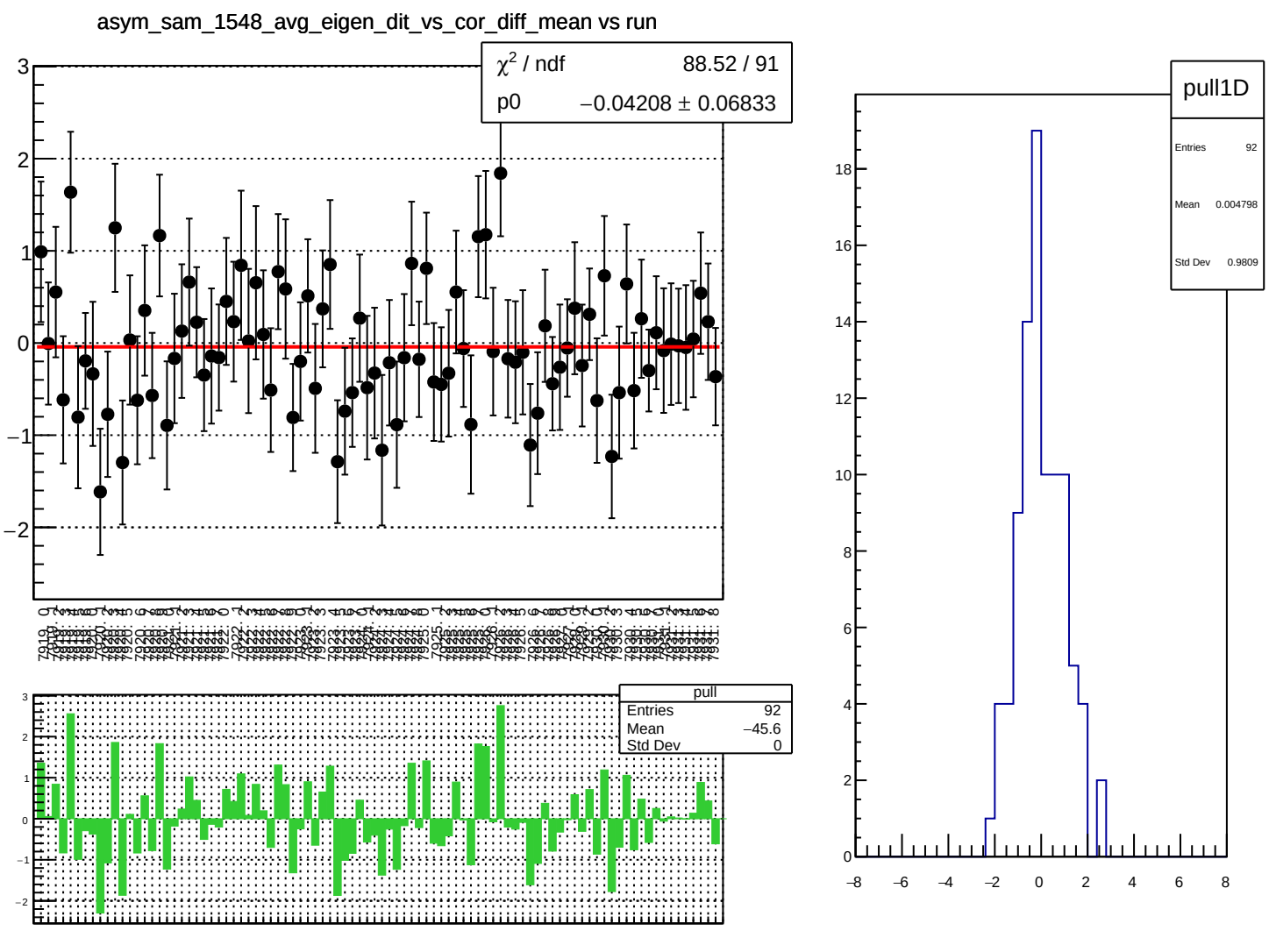

asym_sam_1548_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8511 / 91
p0 64.36 ± 0.04831
80
75
70
65
60
55

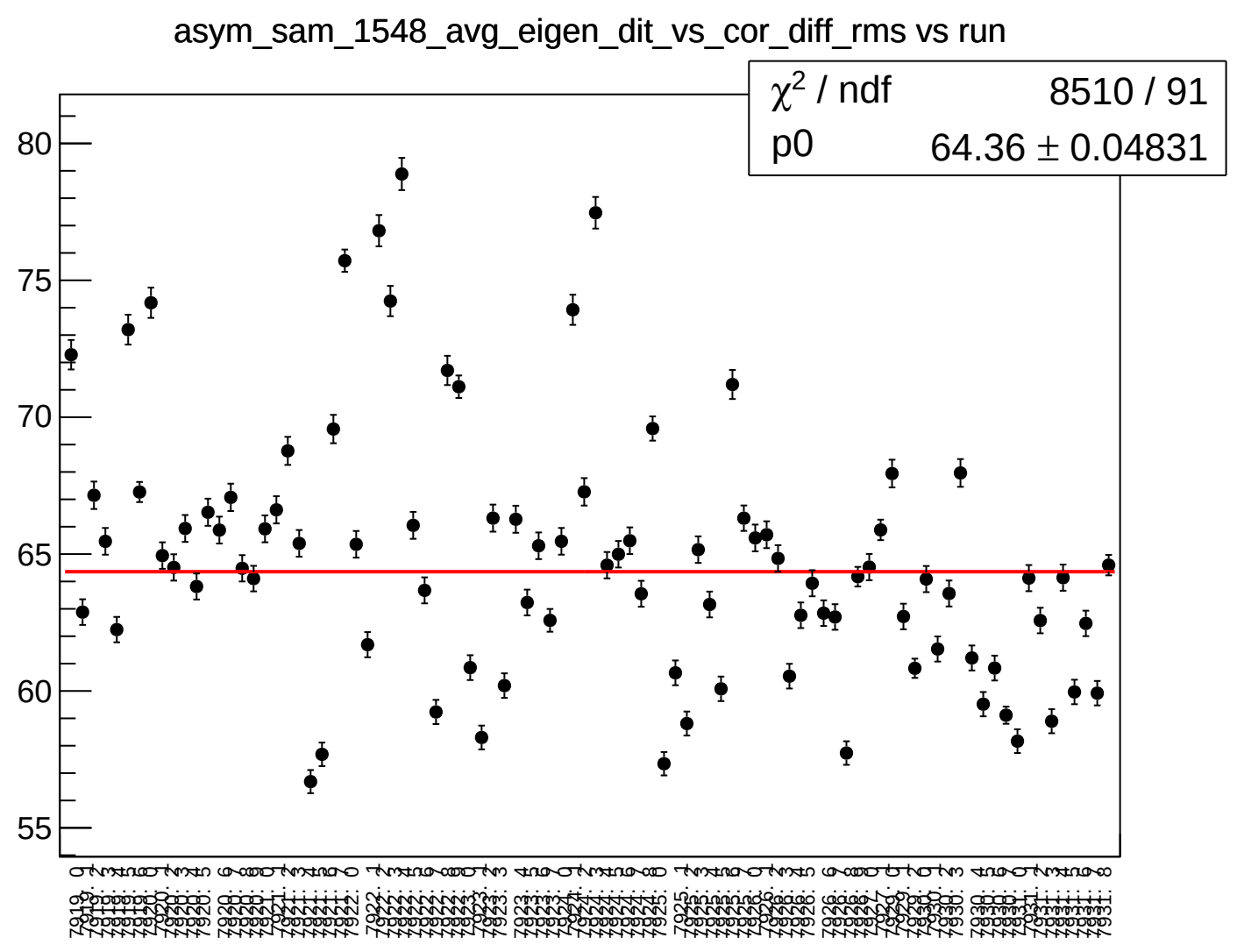

asym_sam_1548_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.52 / 91
p0 −0.04209 ± 0.06833
pull
Entries 92
Mean −45.6
Std Dev 0
pull1D
Entries 92
Mean 0.004795
Std Dev 0.9809

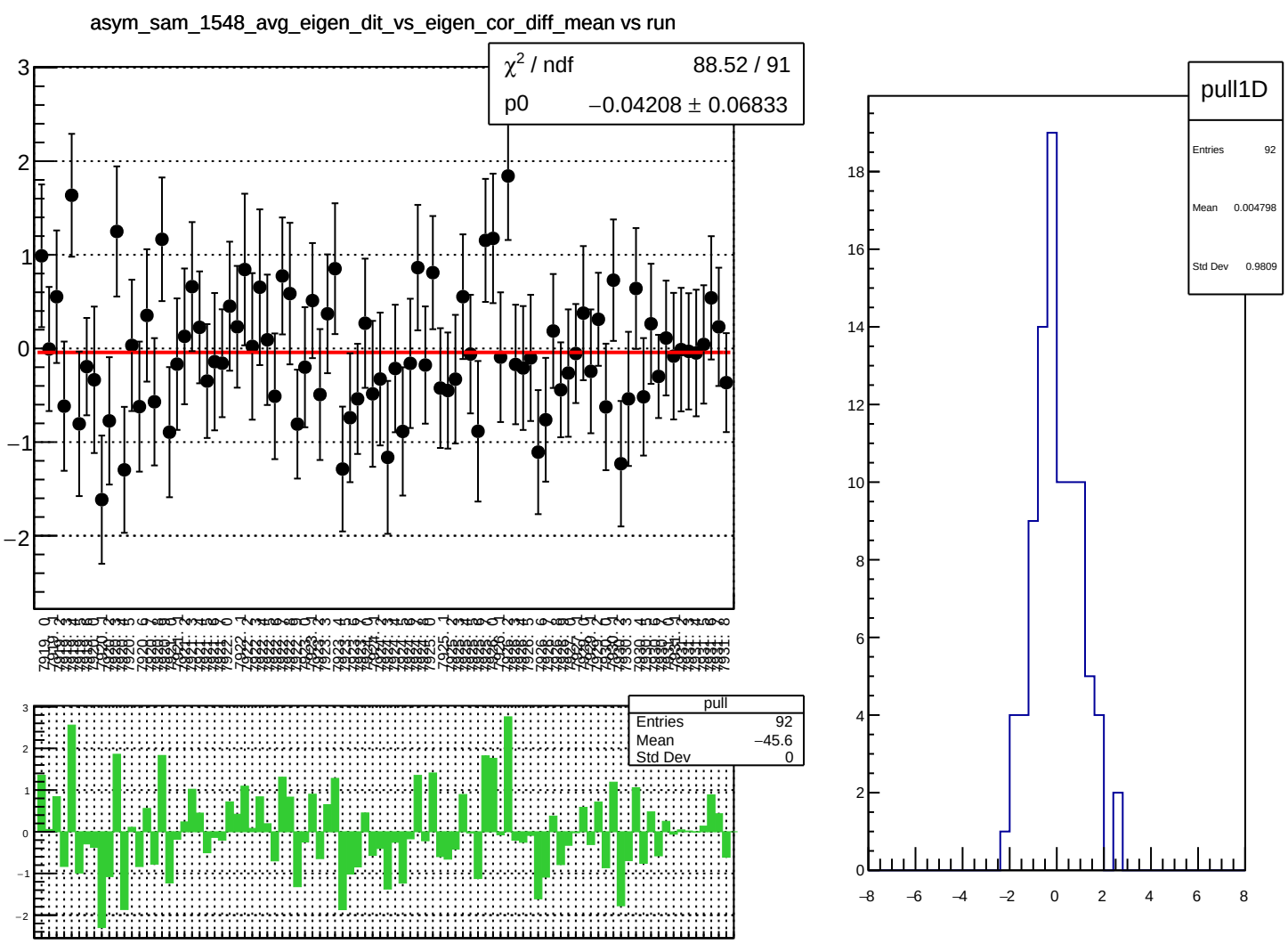

asym_sam_1548_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8511 / 91
p0 64.36 ± 0.04831
80
75
70
65
60
55

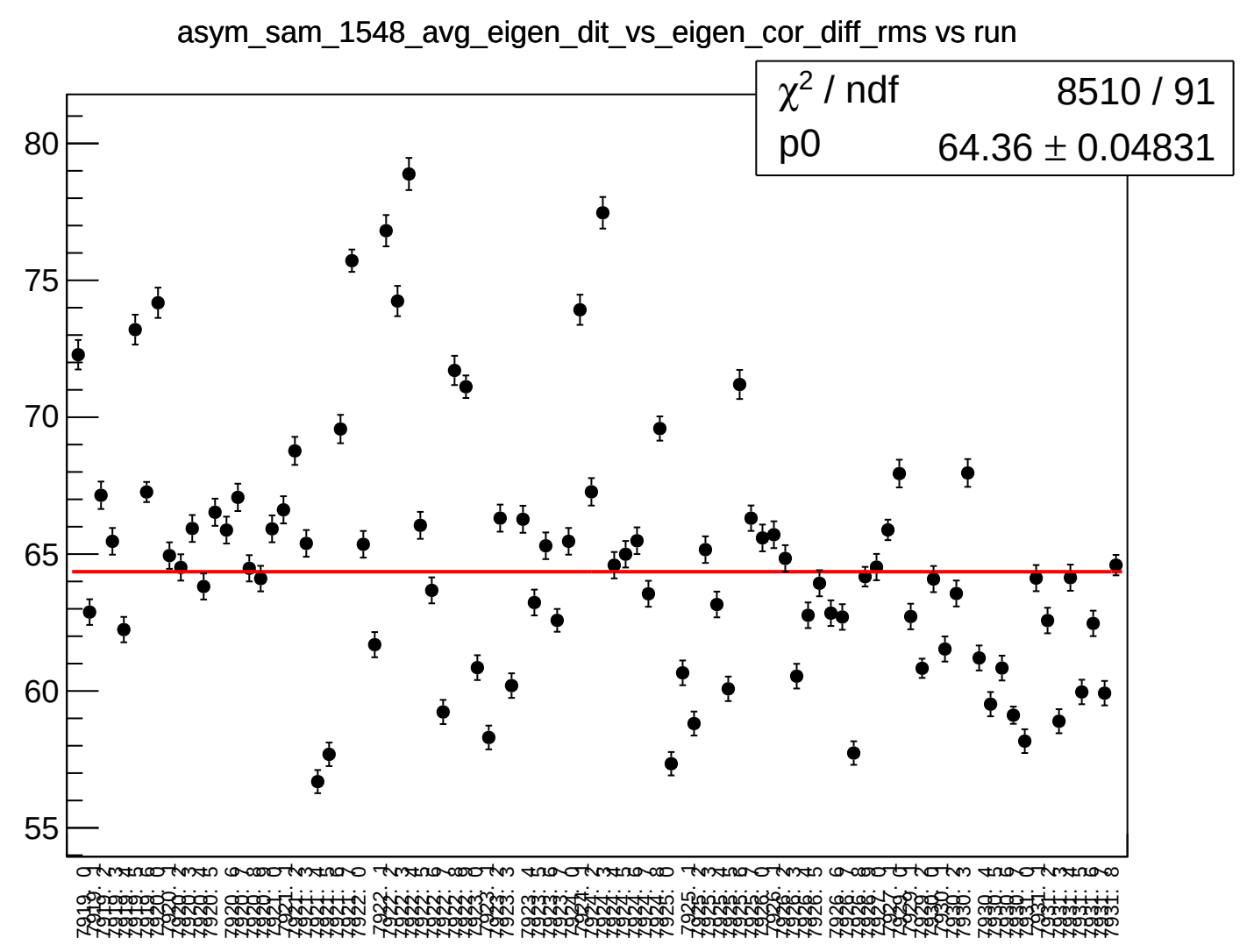

asym_sam_1548_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.18 / 91
p0 6.594e−06 ± 4.187e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 92
Mean −1777
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.002575
Std Dev 0.9901
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

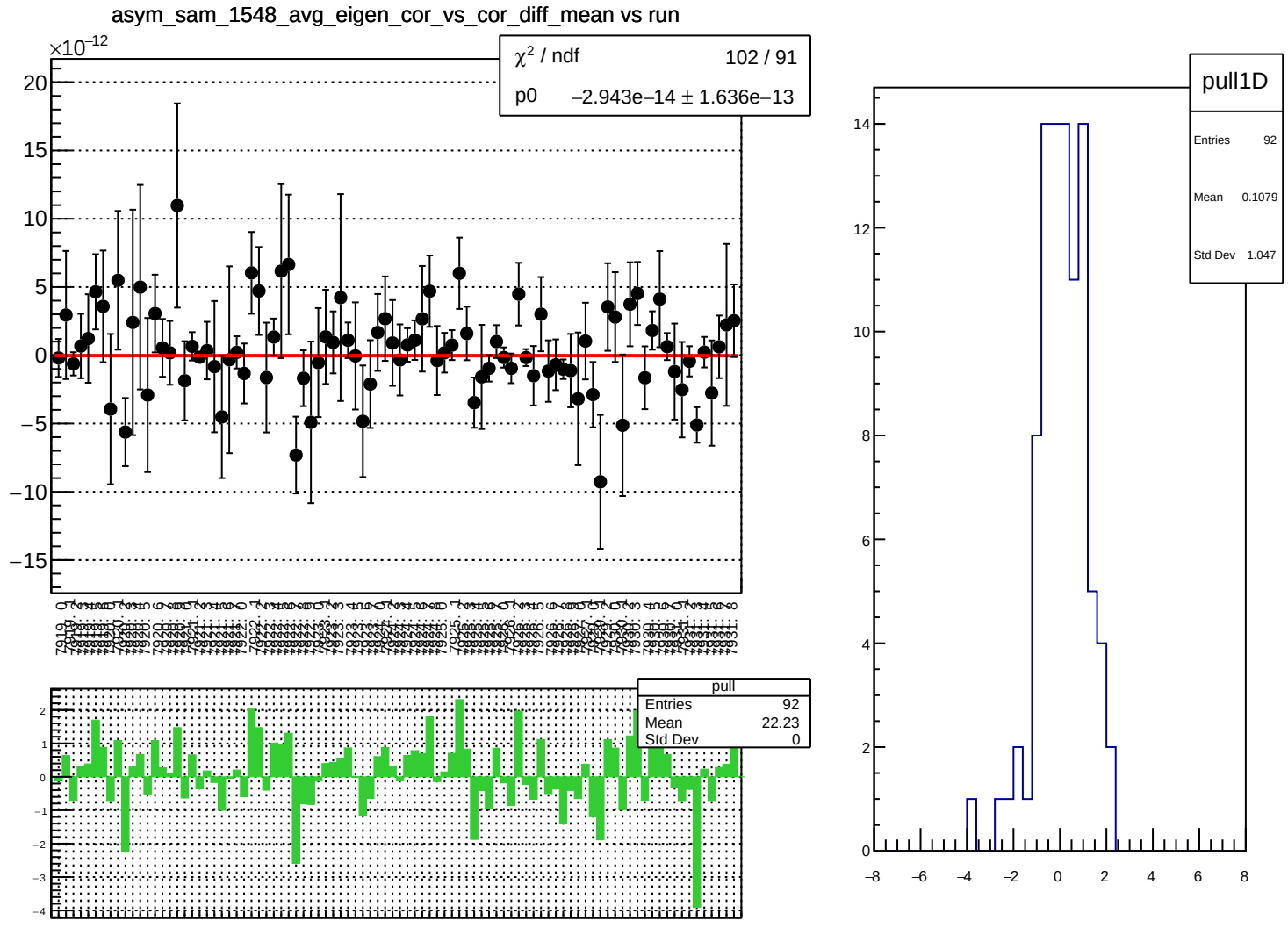

asym_sam_1548_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3005 / 91
p0 0.00395 ± 2.961e–06
0.0046
0.0044
0.0042
0.004
0.0038
0.0036

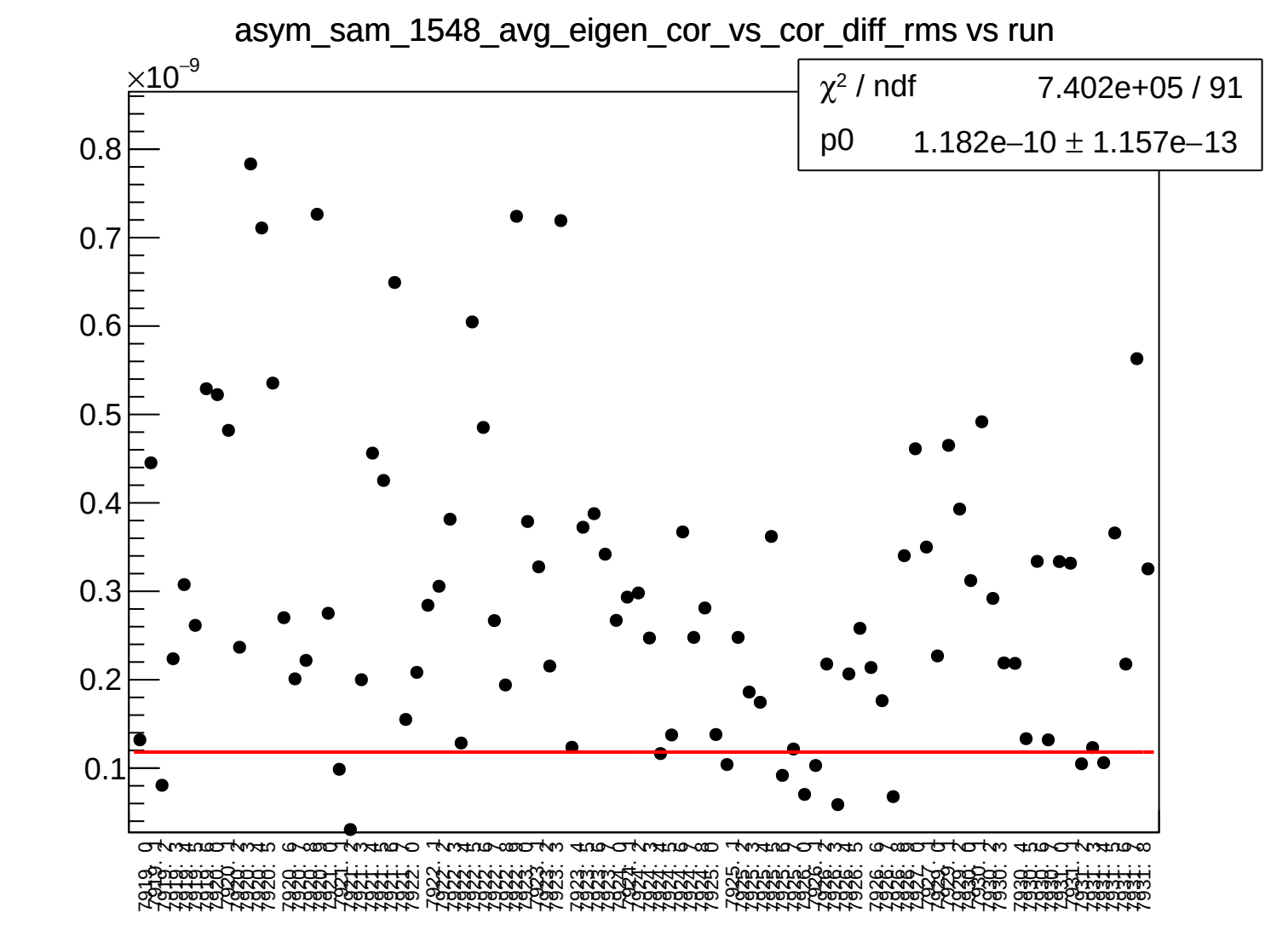

asym_sam_1548_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.52 / 91
p0 −0.04208 ± 0.06833
pull
Entries 92
Mean −45.6
Std Dev 0
pull1D
Entries 92
Mean 0.004798
Std Dev 0.9809

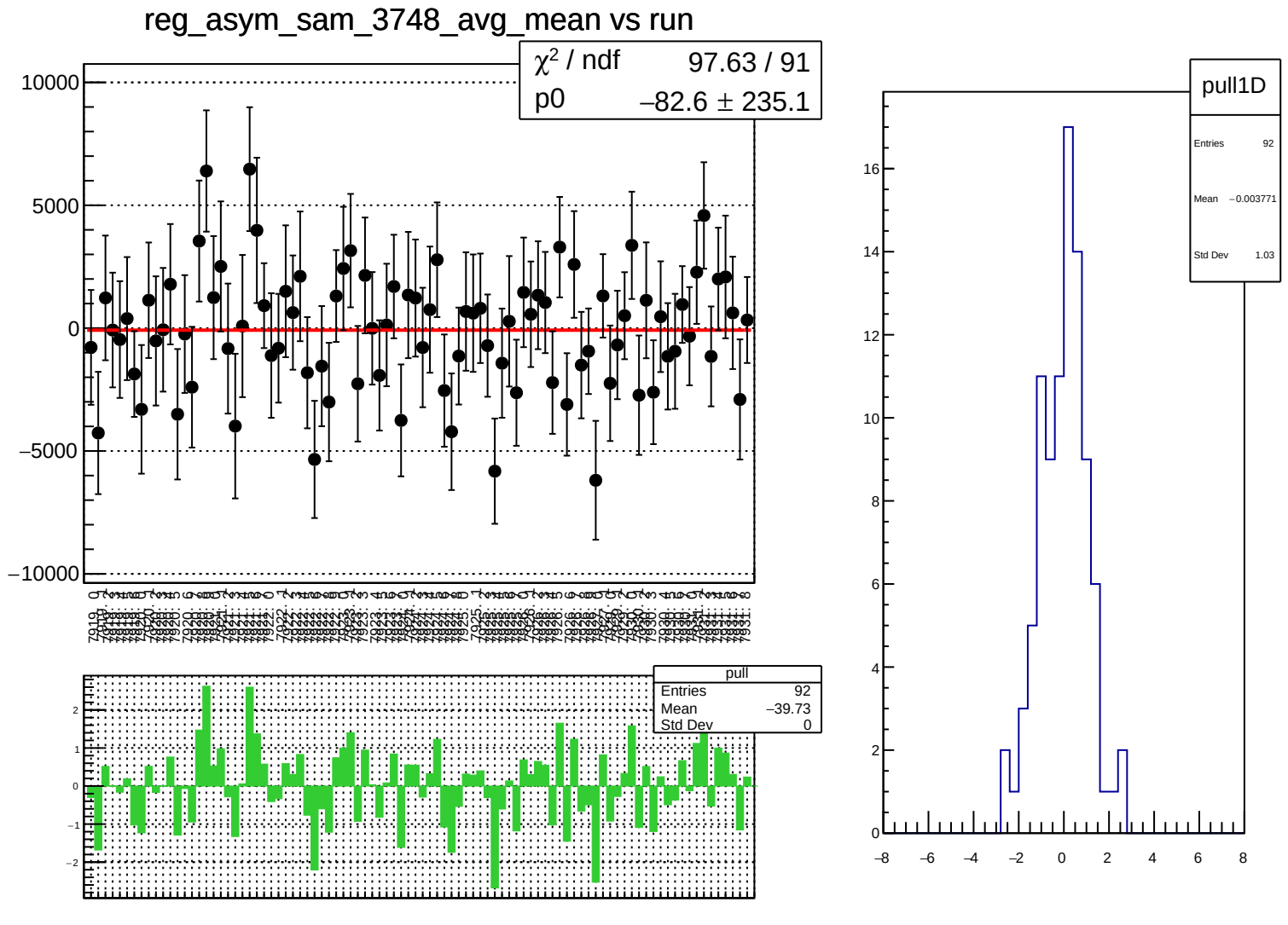

asym_sam_1548_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8510 / 91
p0 64.36 ± 0.04831
80
75
70
65
60
55

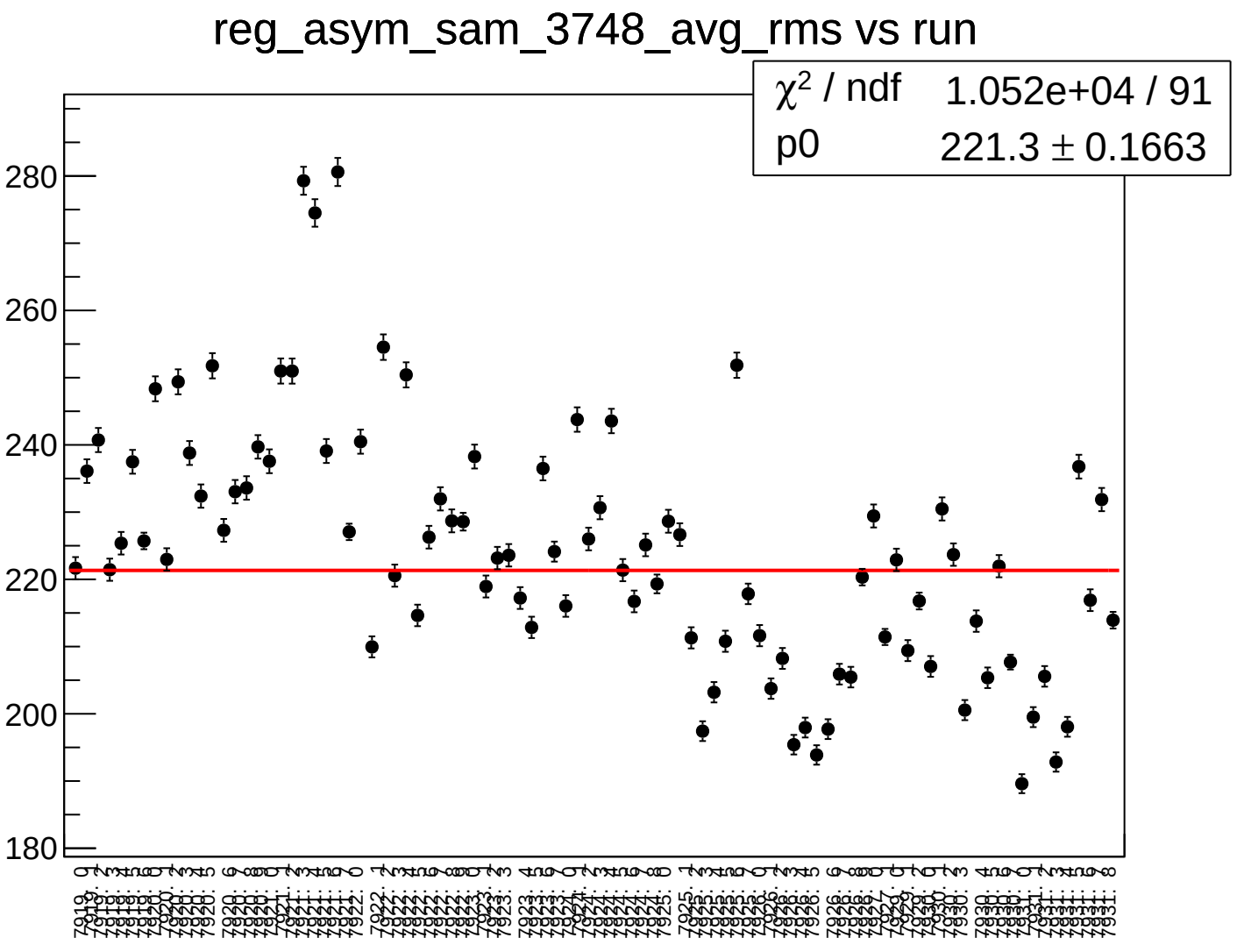

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.52 / 91
p0 −0.04208 ± 0.06833
pull
Entries 92
Mean −45.6
Std Dev 0
pull1D
Entries 92
Mean 0.004798
Std Dev 0.9809

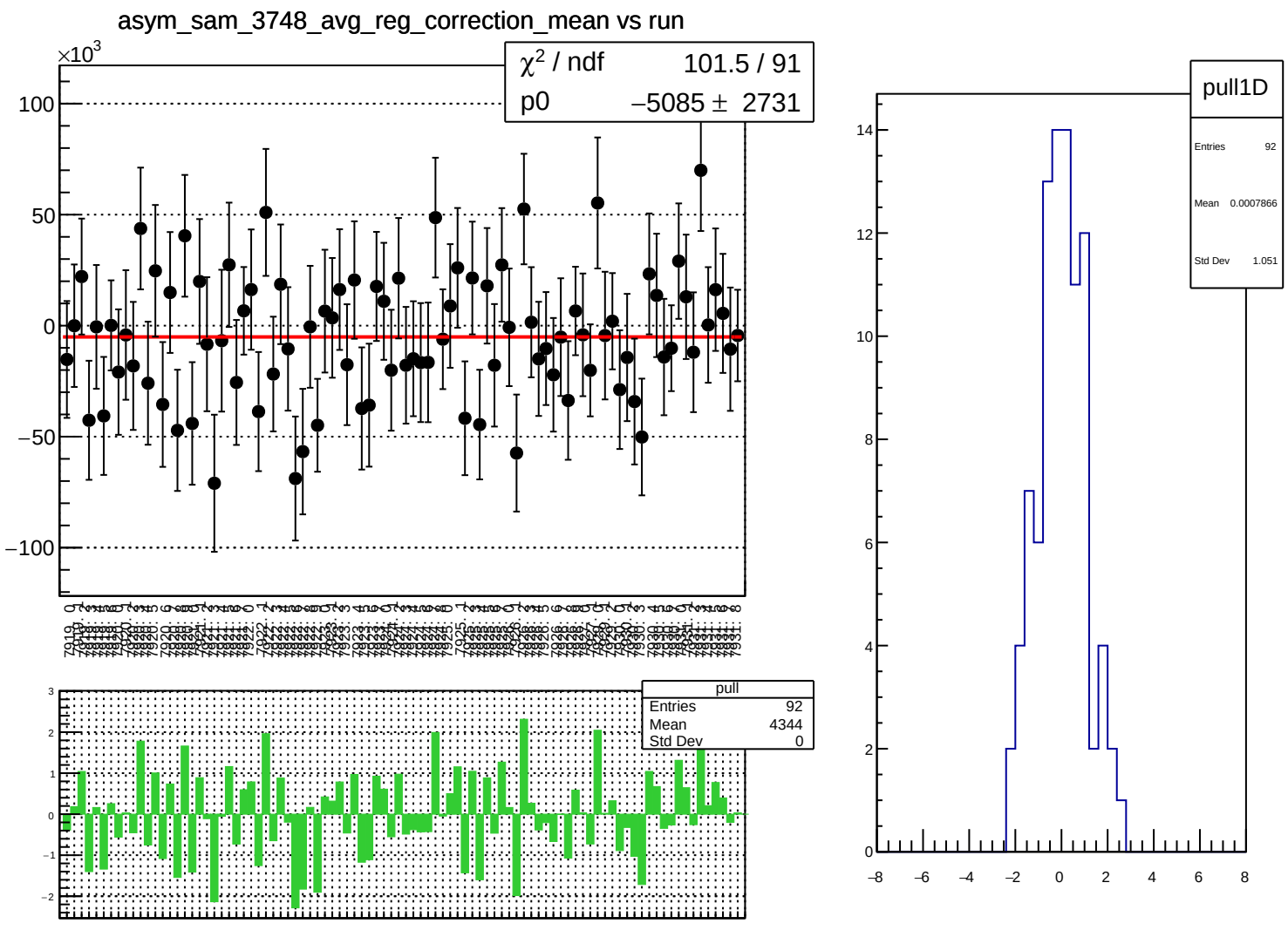

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8510 / 91
p0 64.36 ± 0.04831
80
75
70
65
60
55

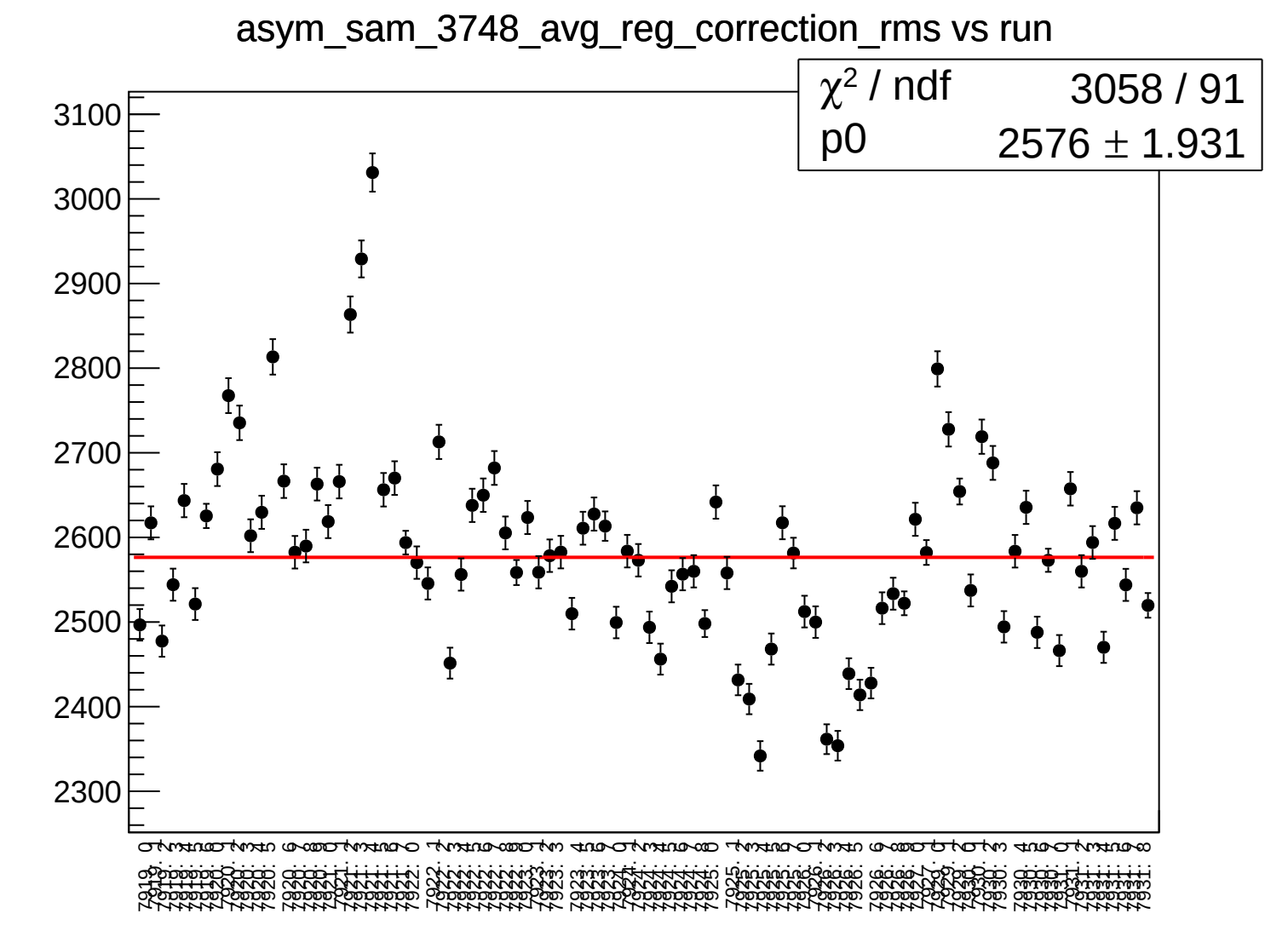

asym_sam_1548_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 102 / 91
p0 −2.943e−14 ± 1.636e−13
pull
Entries 92
Mean 22.23
Std Dev 0
pull1D
Entries 92
Mean 0.1079
Std Dev 1.047

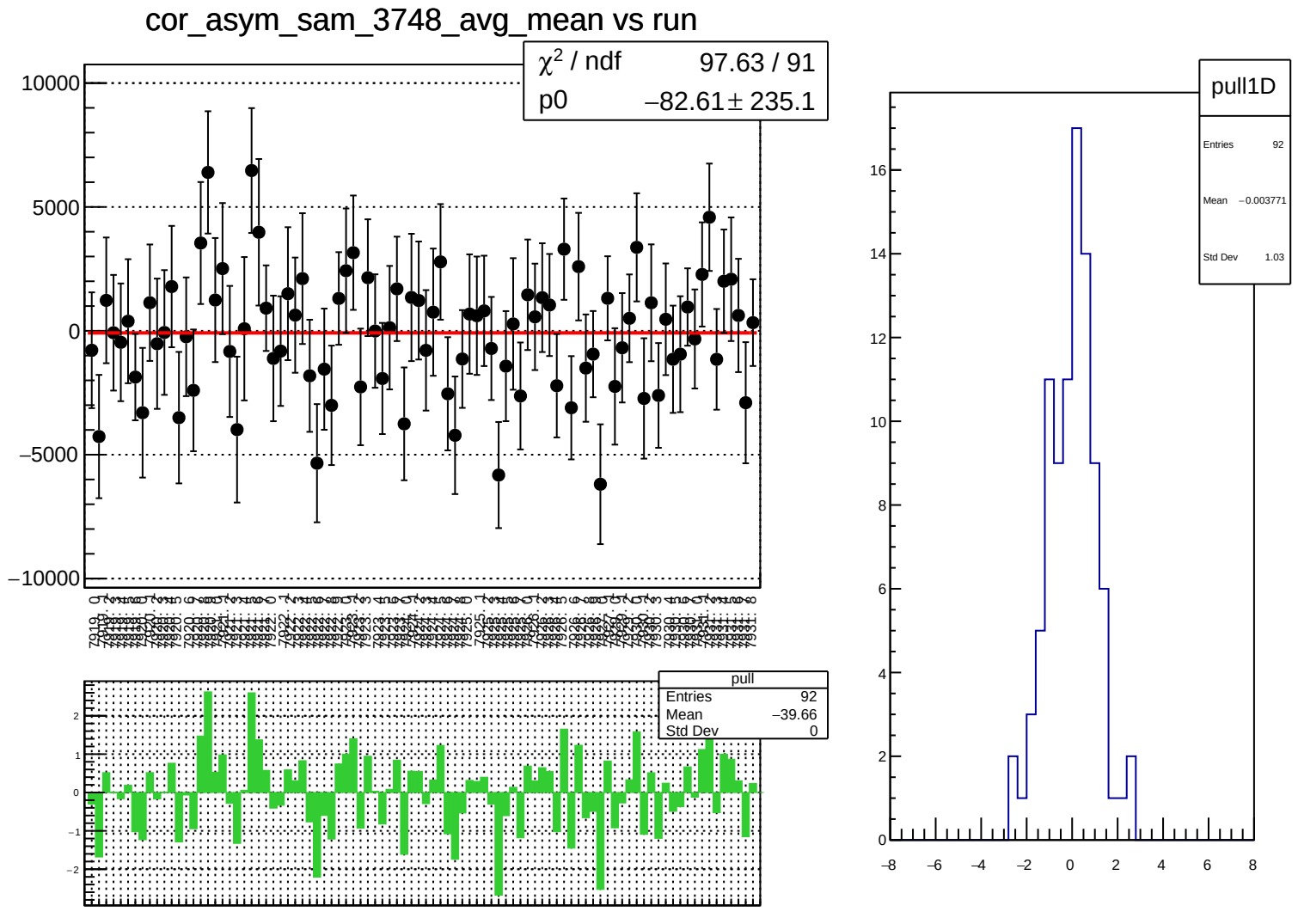

asym_sam_1548_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.402e+05 / 91
p0 1.182e−10 ± 1.157e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

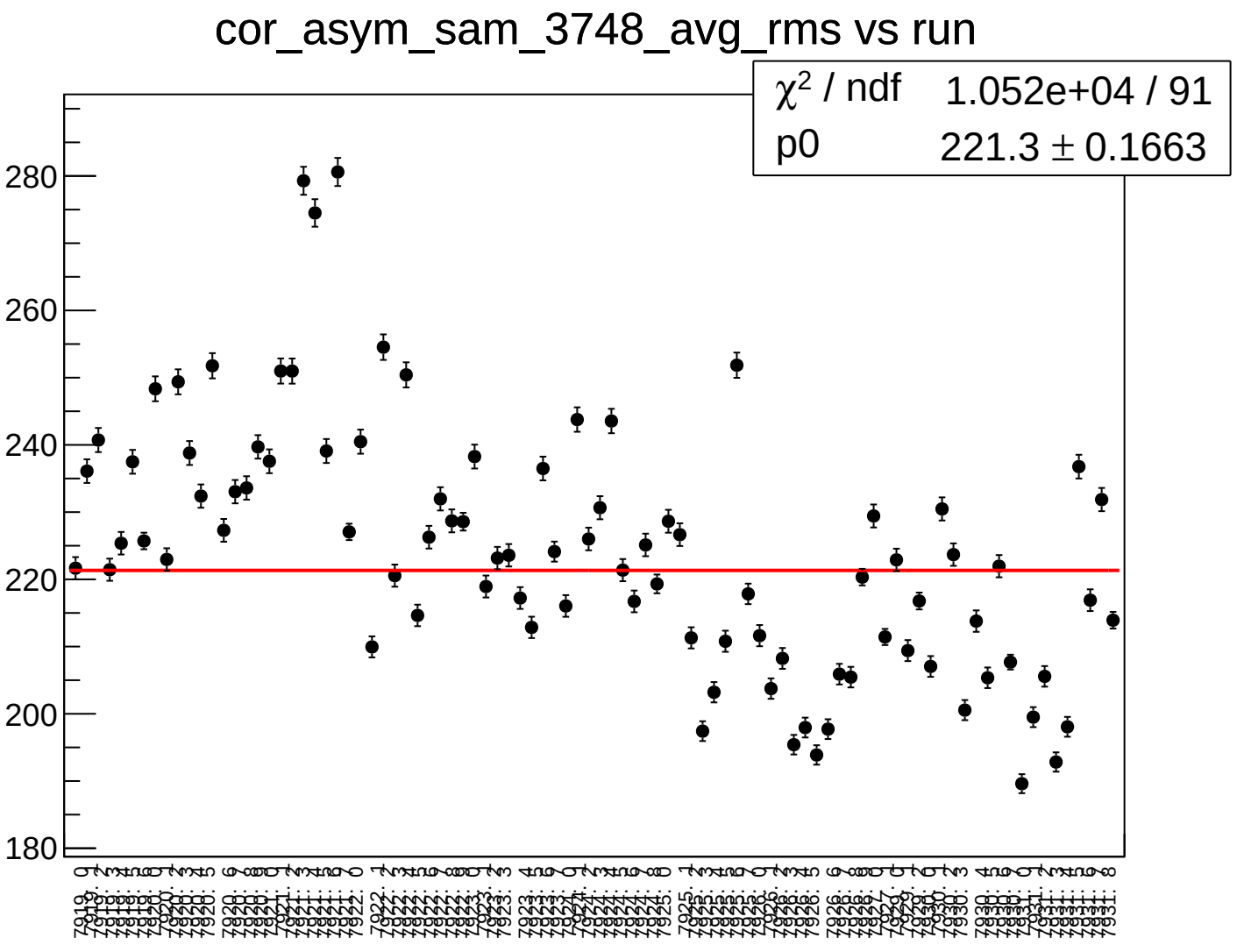

reg_asym_sam_3748_avg_mean vs run
χ² / ndf 97.63 / 91
p0 −82.6 ± 235.1
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −39.73
Std Dev 0
pull1D
Entries 92
Mean −0.003771
Std Dev 1.03

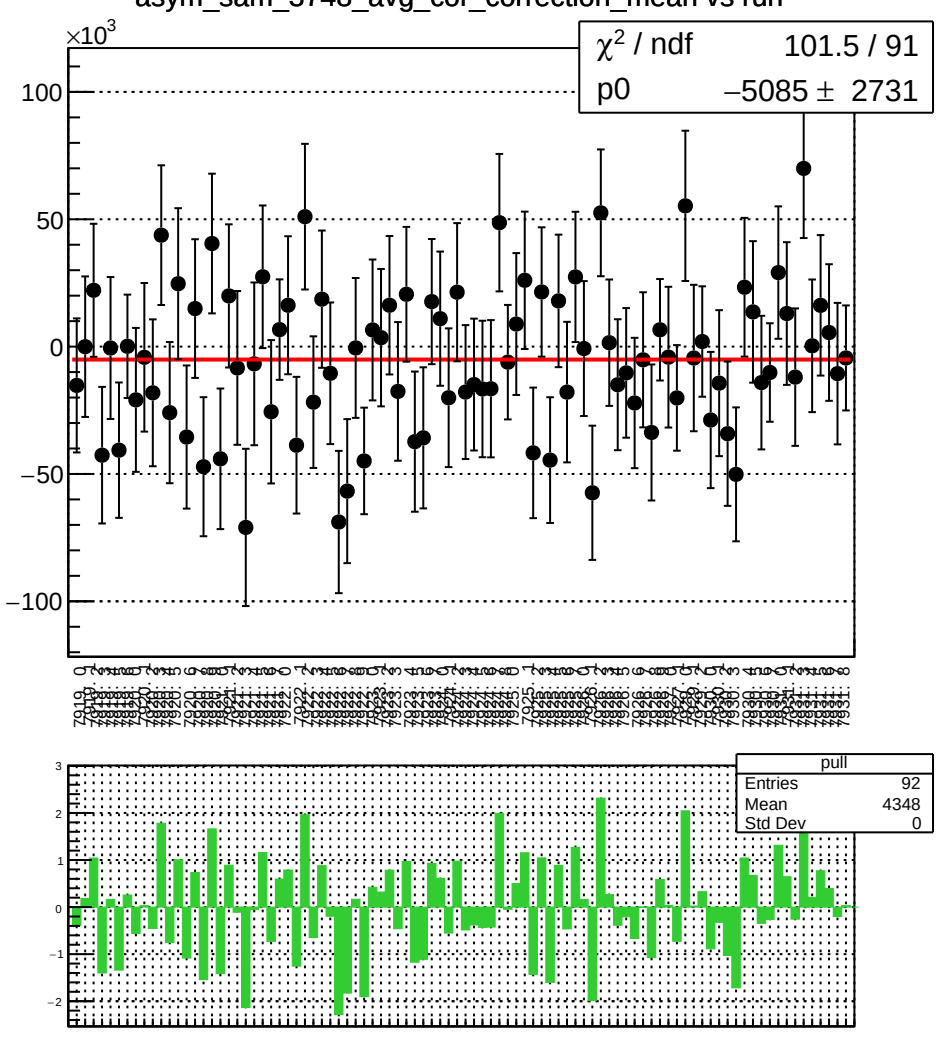

reg_asym_sam_3748_avg_rms vs run
χ² / ndf 1.052e+04 / 91
p0 221.3 ± 0.1663
280
260
240
220
200
180

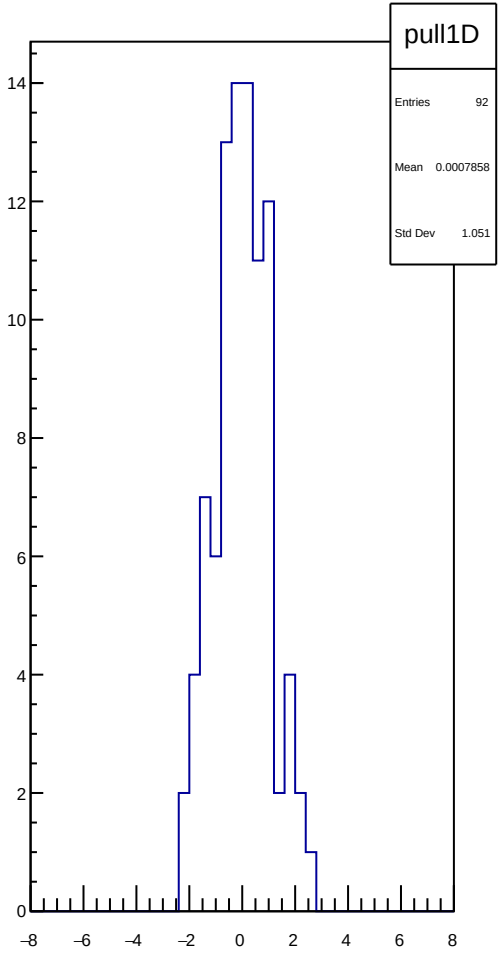

asym_sam_3748_avg_reg_correction_mean vs run
×10^3
χ² / ndf 101.5 / 91
p0 −5085 ± 2731
100
50
0
−50
−100
pull
Entries 92
Mean 4344
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.0007866
Std Dev 1.051
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

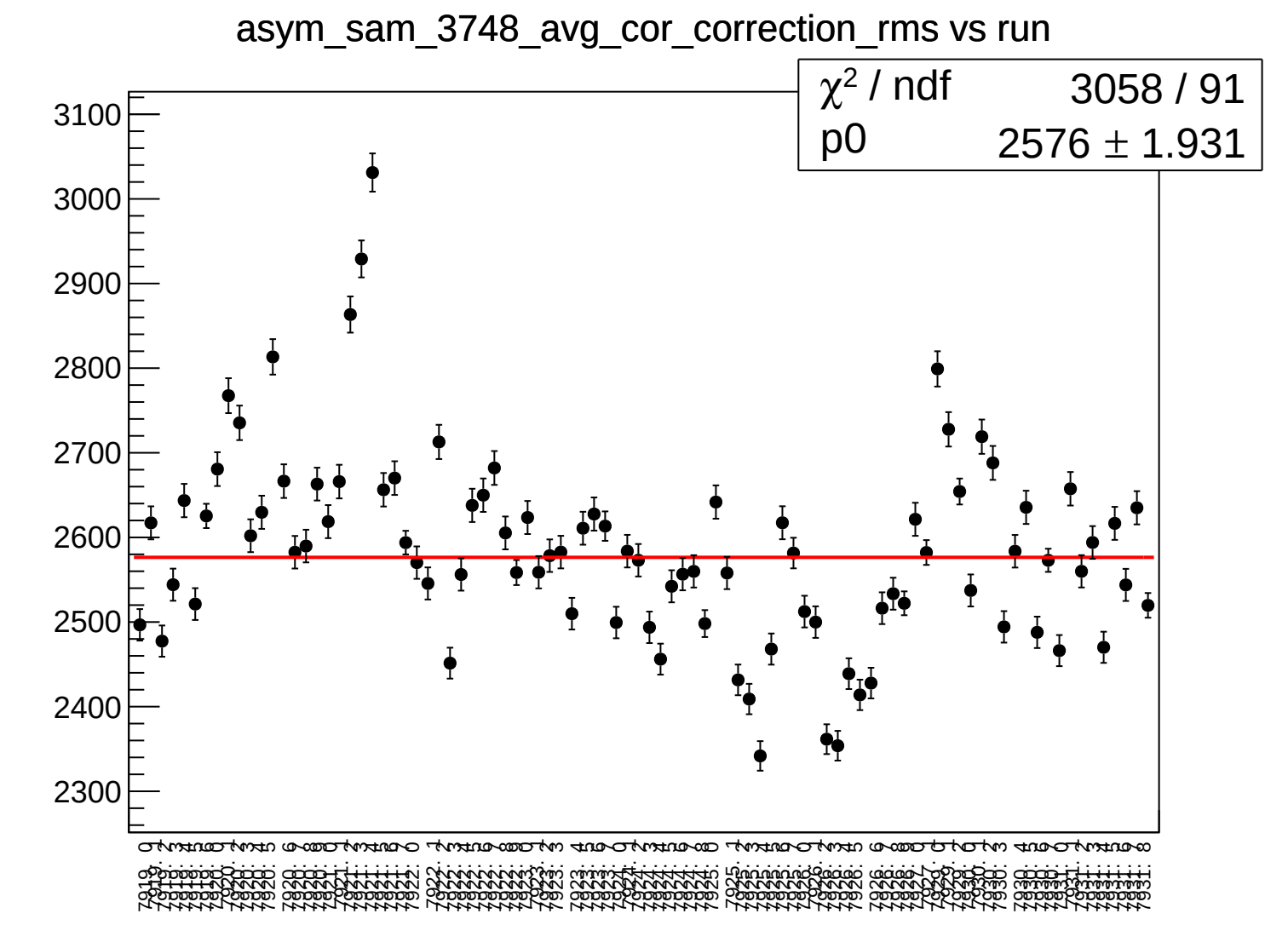

asym_sam_3748_avg_reg_correction_rms vs run
χ² / ndf 3058 / 91
p0 2576 ± 1.931
3100
3000
2900
2800
2700
2600
2500
2400
2300

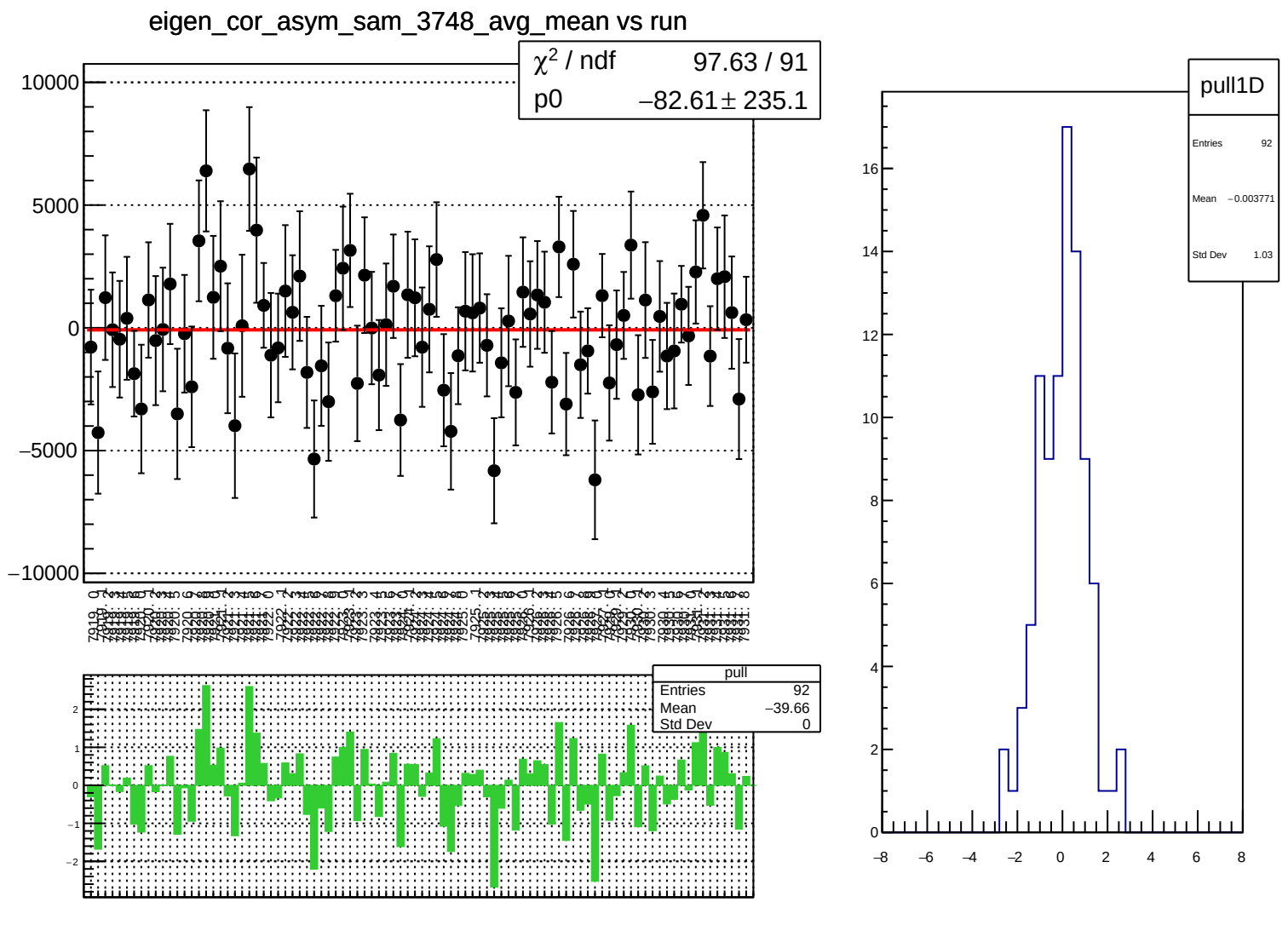

cor_asym_sam_3748_avg_mean vs run
χ² / ndf 97.63 / 91
p0 −82.61 ± 235.1
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −39.66
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.003771
Std Dev 1.03
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

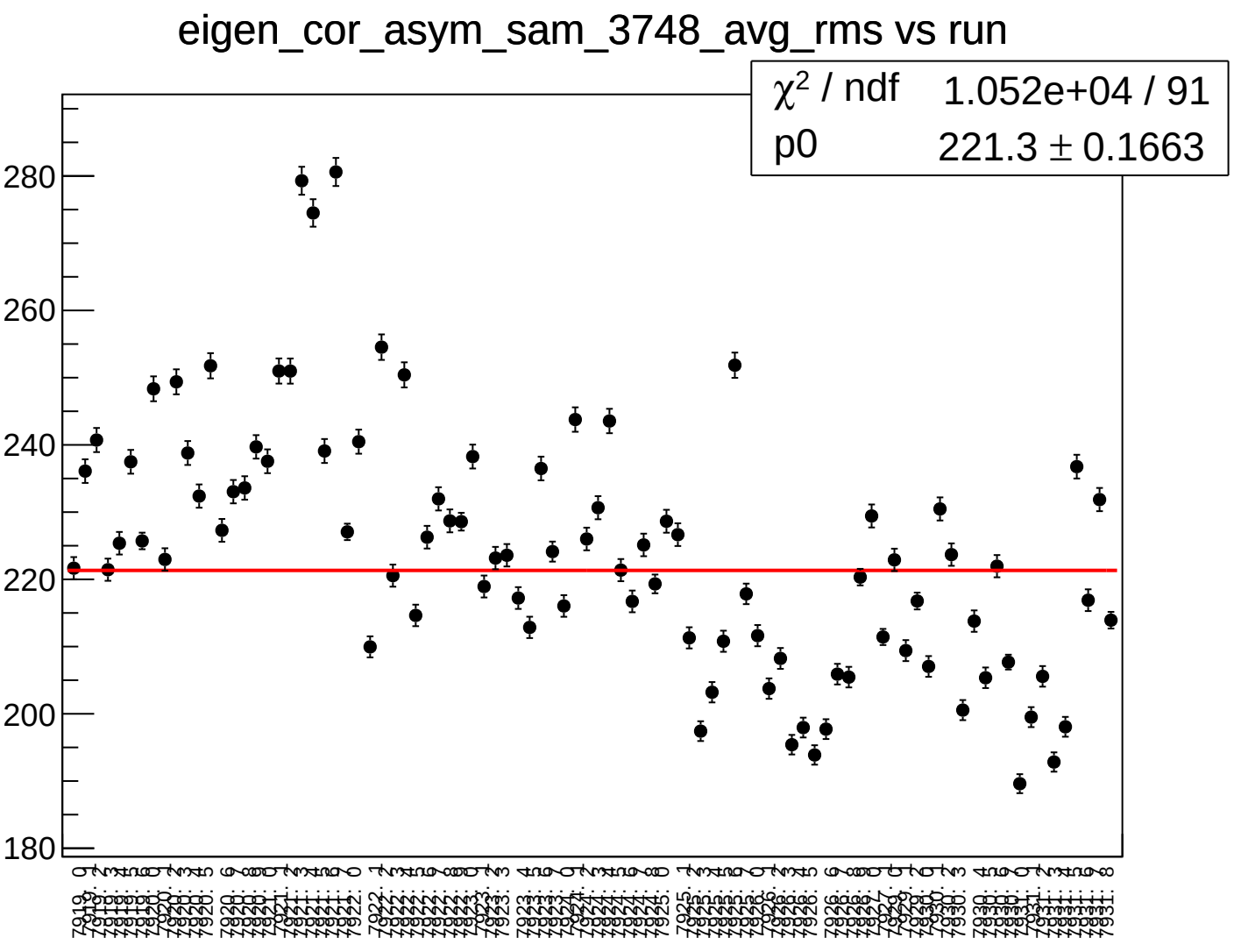

cor_asym_sam_3748_avg_rms vs run
χ^2 / ndf 1.052e+04 / 91
p0 221.3 ± 0.1663
280
260
240
220
200
180

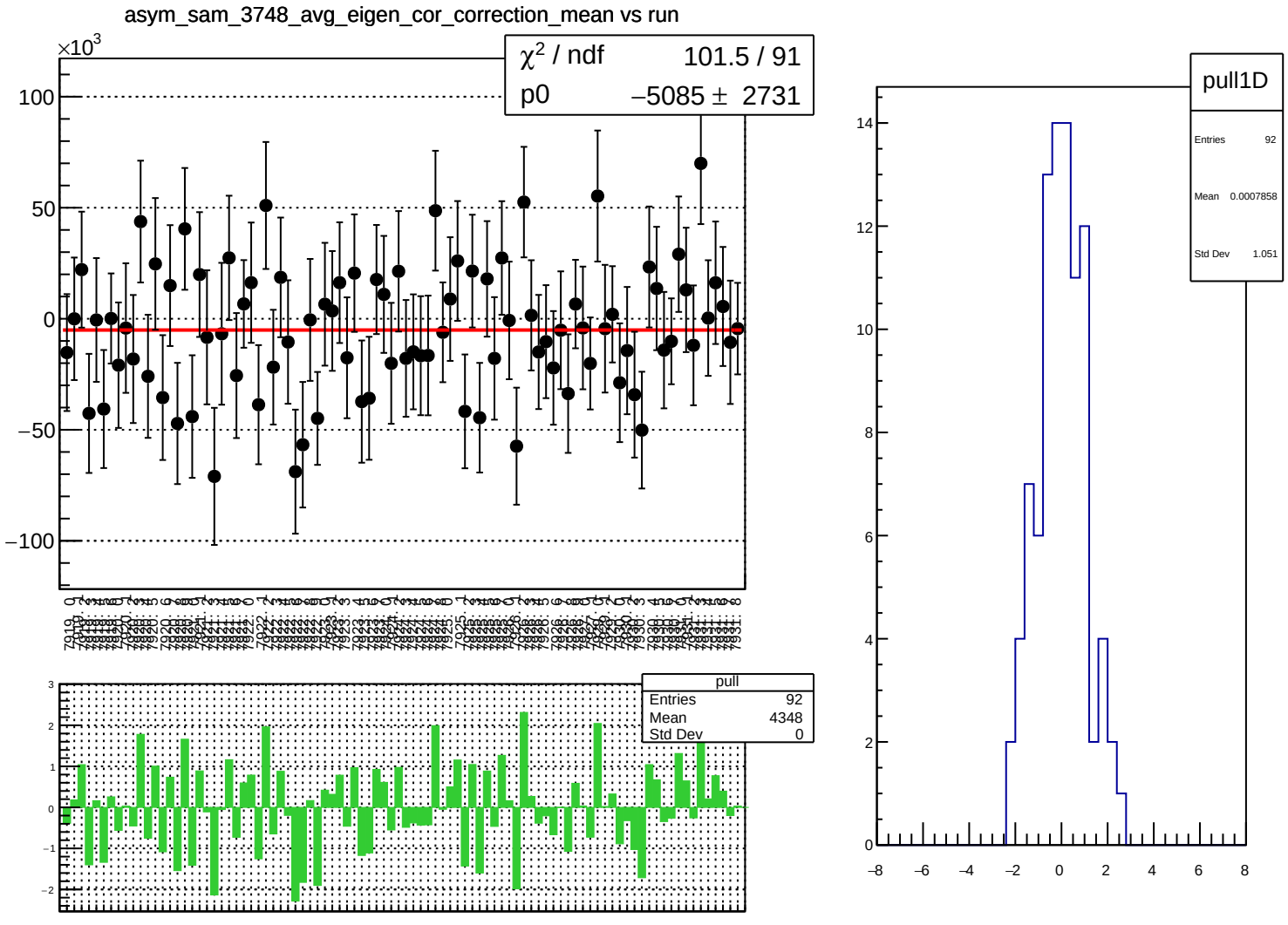

asym_sam_3748_avg_cor_correction_mean vs run
×10^3
χ² / ndf 101.5 / 91
p0 −5085 ± 2731
100
50
0
−50
−100
pull
Entries 92
Mean 4348
Std Dev 0
3
2
1
0
−1
−2

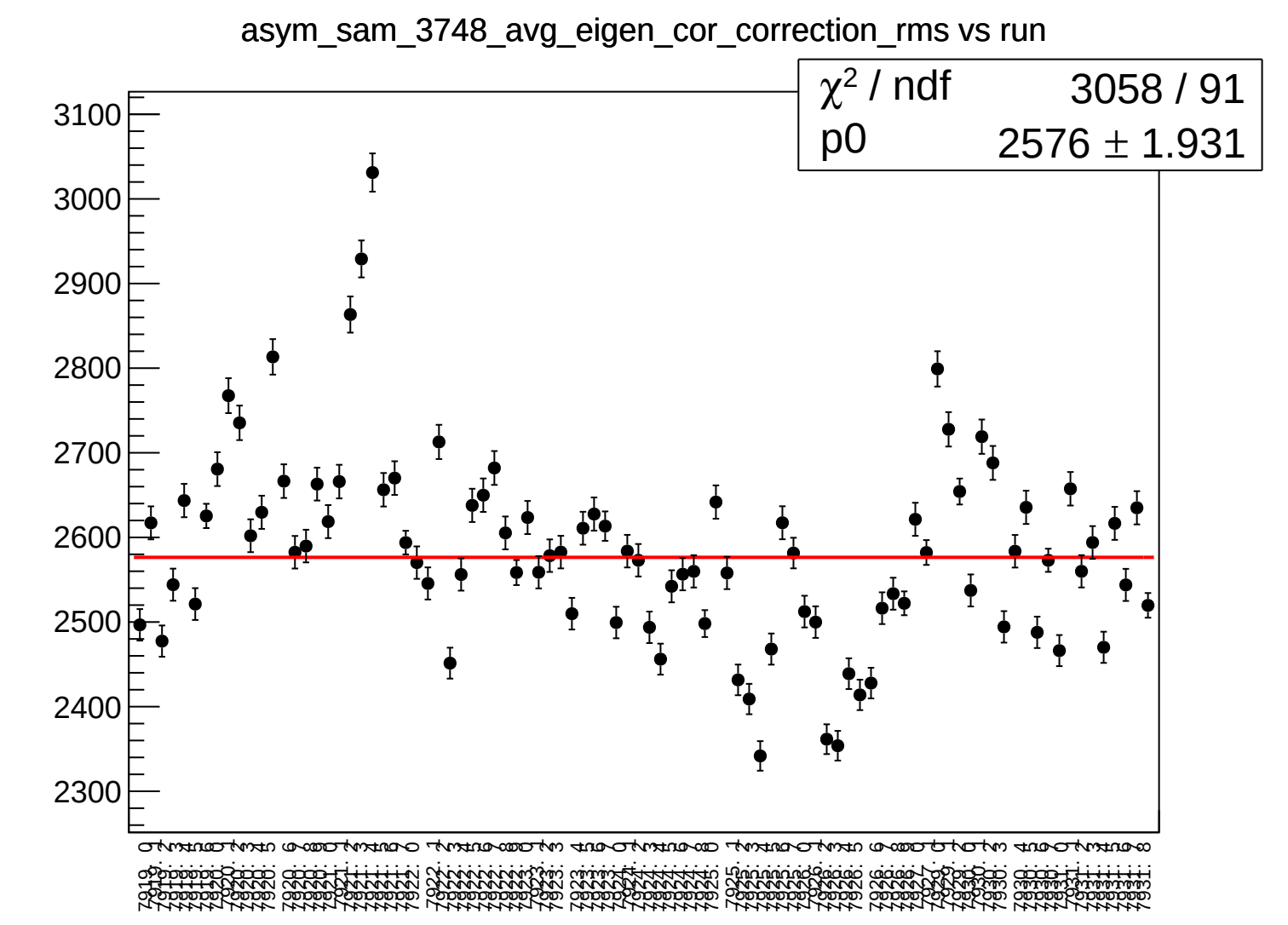

pull1D
Entries 92
Mean 0.0007858
Std Dev 1.051
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

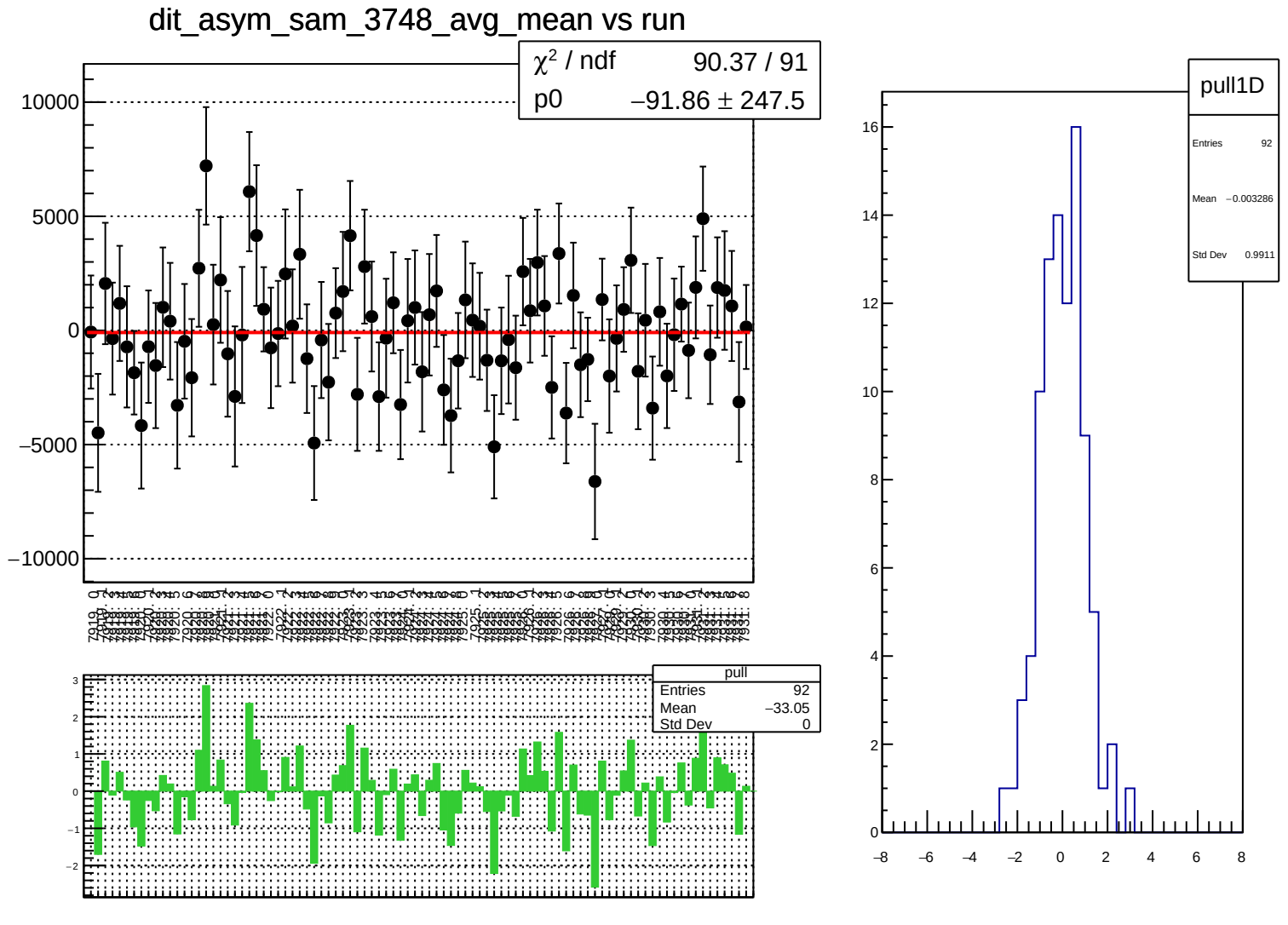

asym_sam_3748_avg_cor_correction_rms vs run
χ² / ndf 3058 / 91
p0 2576 ± 1.931
3100
3000
2900
2800
2700
2600
2500
2400
2300

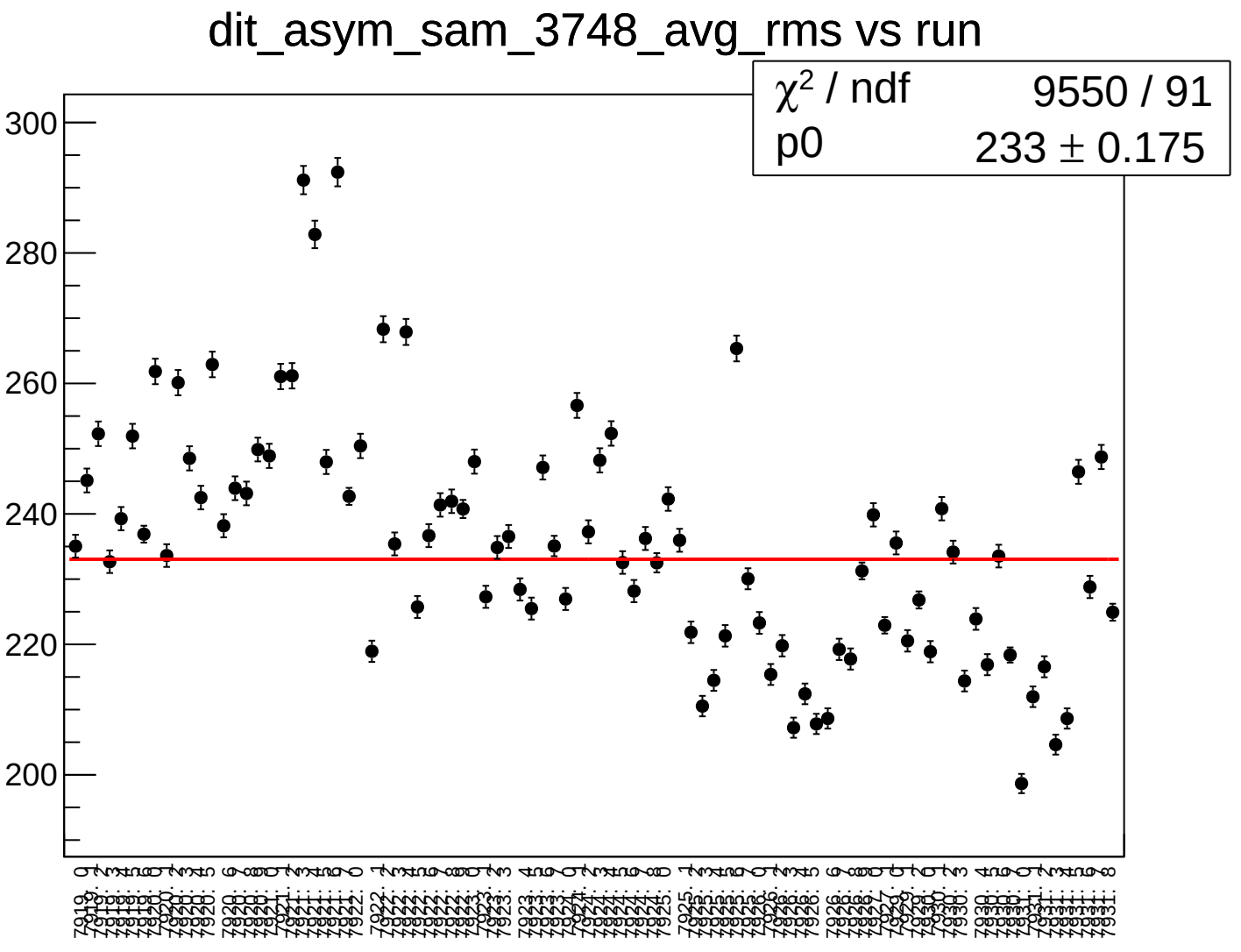

eigen_cor_asym_sam_3748_avg_mean vs run
χ^2 / ndf 97.63 / 91
p0 −82.61 ± 235.1
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −39.66
Std Dev 0
pull1D
Entries 92
Mean −0.003771
Std Dev 1.03

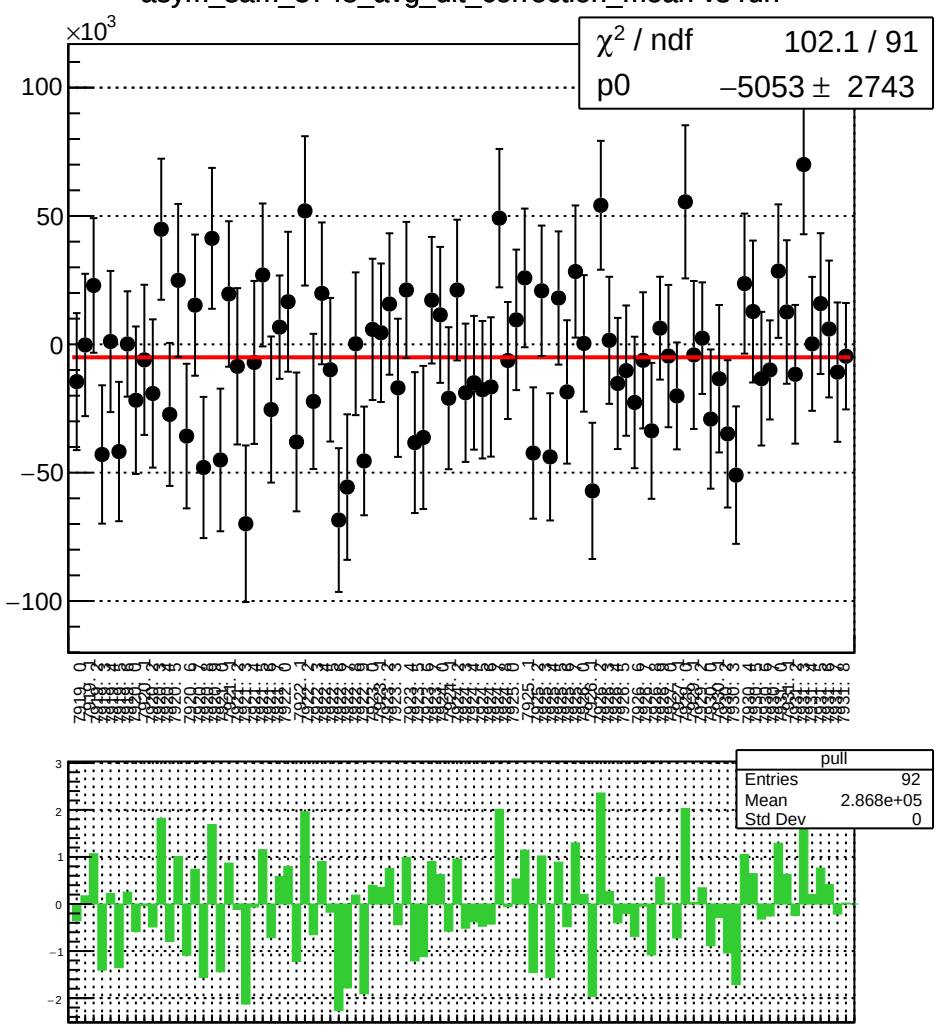

eigen_cor_asym_sam_3748_avg_rms vs run
χ^2 / ndf 1.052e+04 / 91
p0 221.3 ± 0.1663
280
260
240
220
200
180

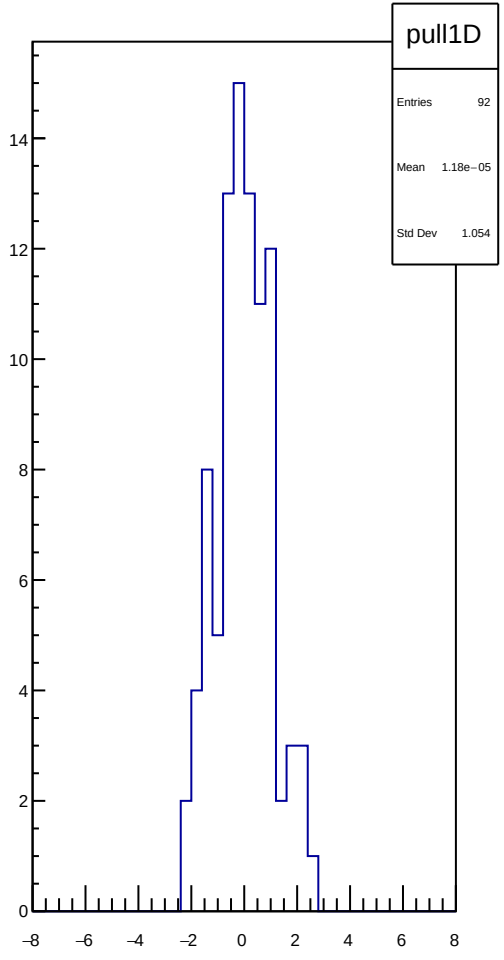

asym_sam_3748_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 101.5 / 91
p0 −5085 ± 2731
pull
Entries 92
Mean 4348
Std Dev 0
pull1D
Entries 92
Mean 0.0007858
Std Dev 1.051

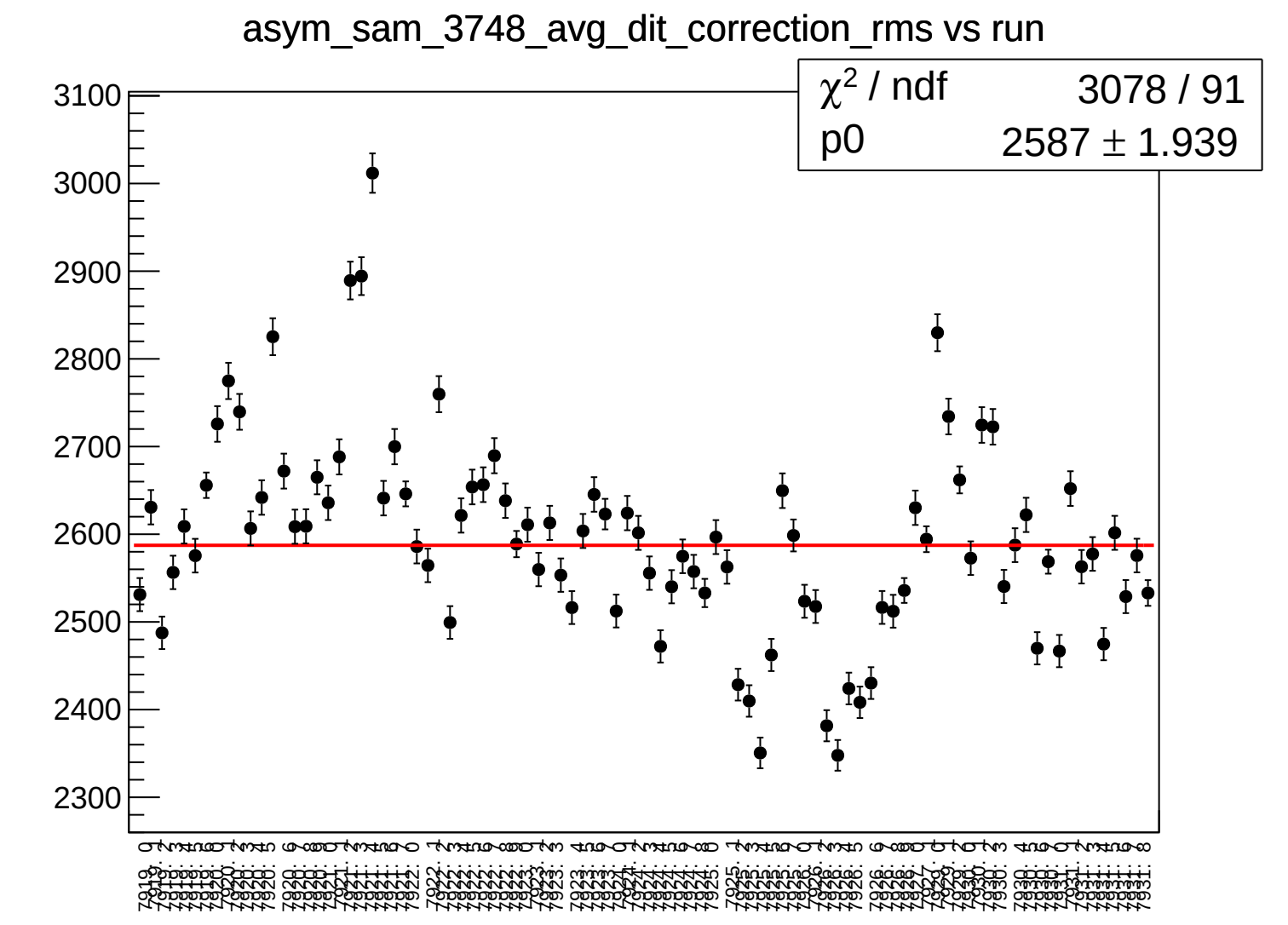

asym_sam_3748_avg_eigen_cor_correction_rms vs run
χ² / ndf 3058 / 91
p0 2576 ± 1.931
3100
3000
2900
2800
2700
2600
2500
2400
2300

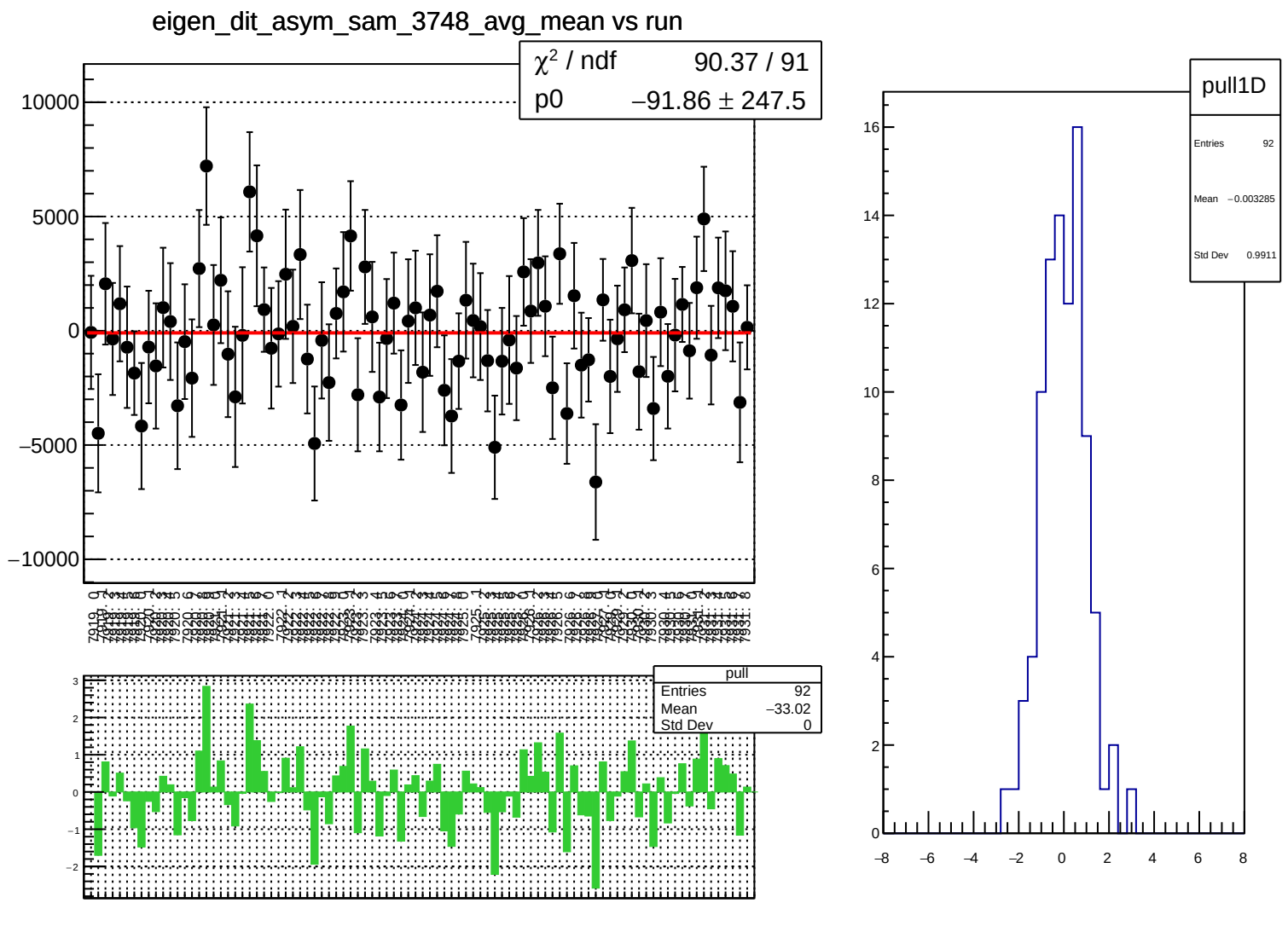

dit_asym_sam_3748_avg_mean vs run
χ² / ndf 90.37 / 91
p0 −91.86 ± 247.5
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −33.05
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.003286
Std Dev 0.9911
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

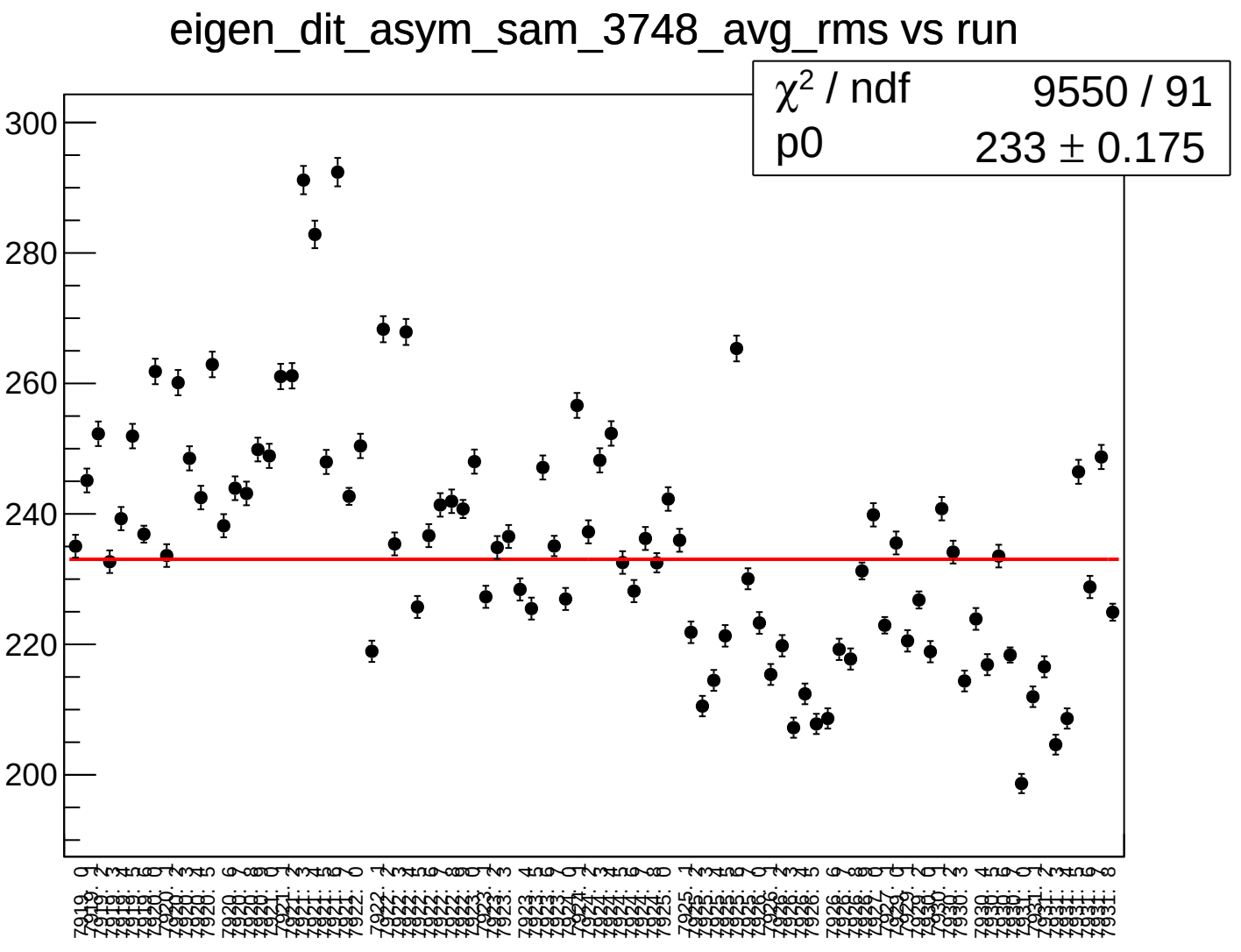

dit_asym_sam_3748_avg_rms vs run
χ^2 / ndf 9550 / 91
p0 233 ± 0.175
300
280
260
240
220
200

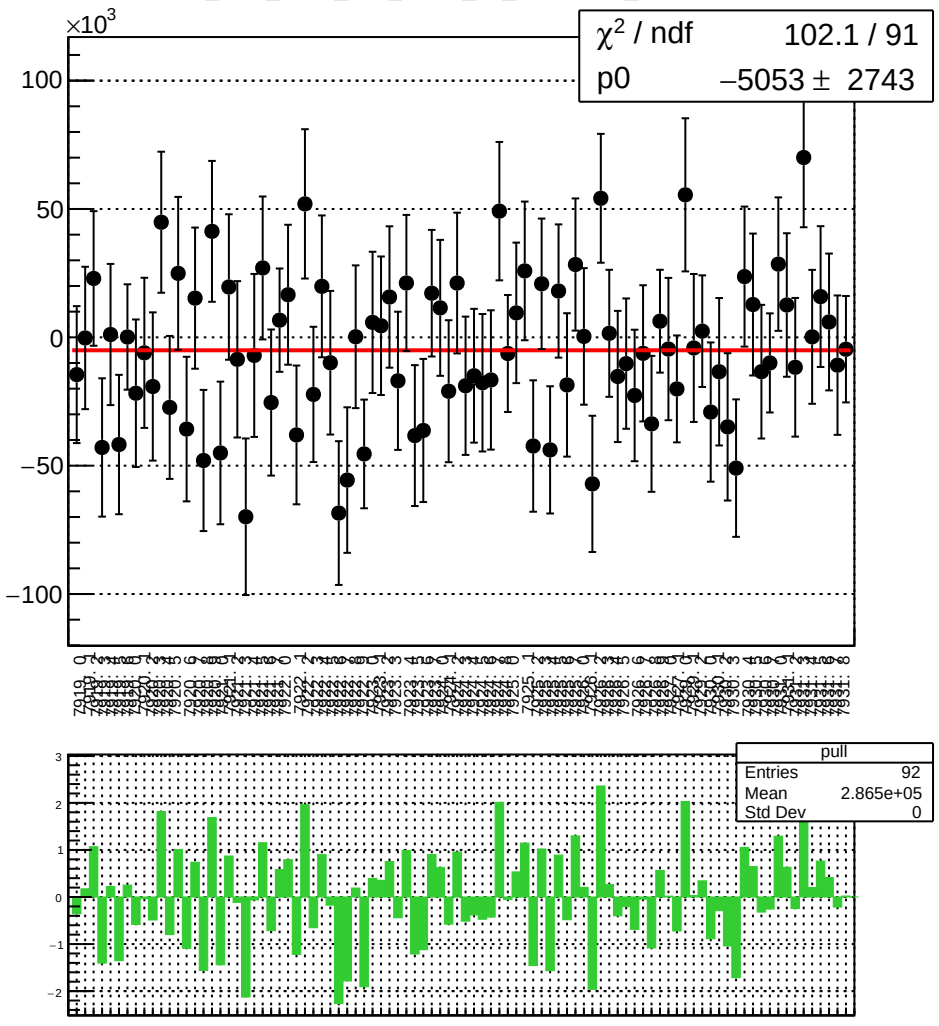

asym_sam_3748_avg_dit_correction_mean vs run
×10^3
χ² / ndf 102.1 / 91
p0 −5053 ± 2743
100
50
0
−50
−100
pull
Entries 92
Mean 2.868e+05
Std Dev 0
3
2
1
0
−1
−2

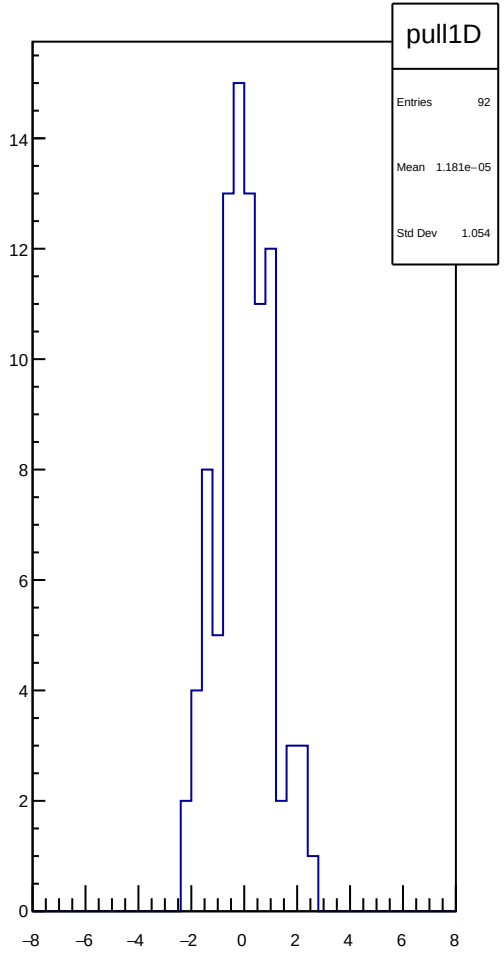

pull1D
Entries 92
Mean 1.18e−05
Std Dev 1.054
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

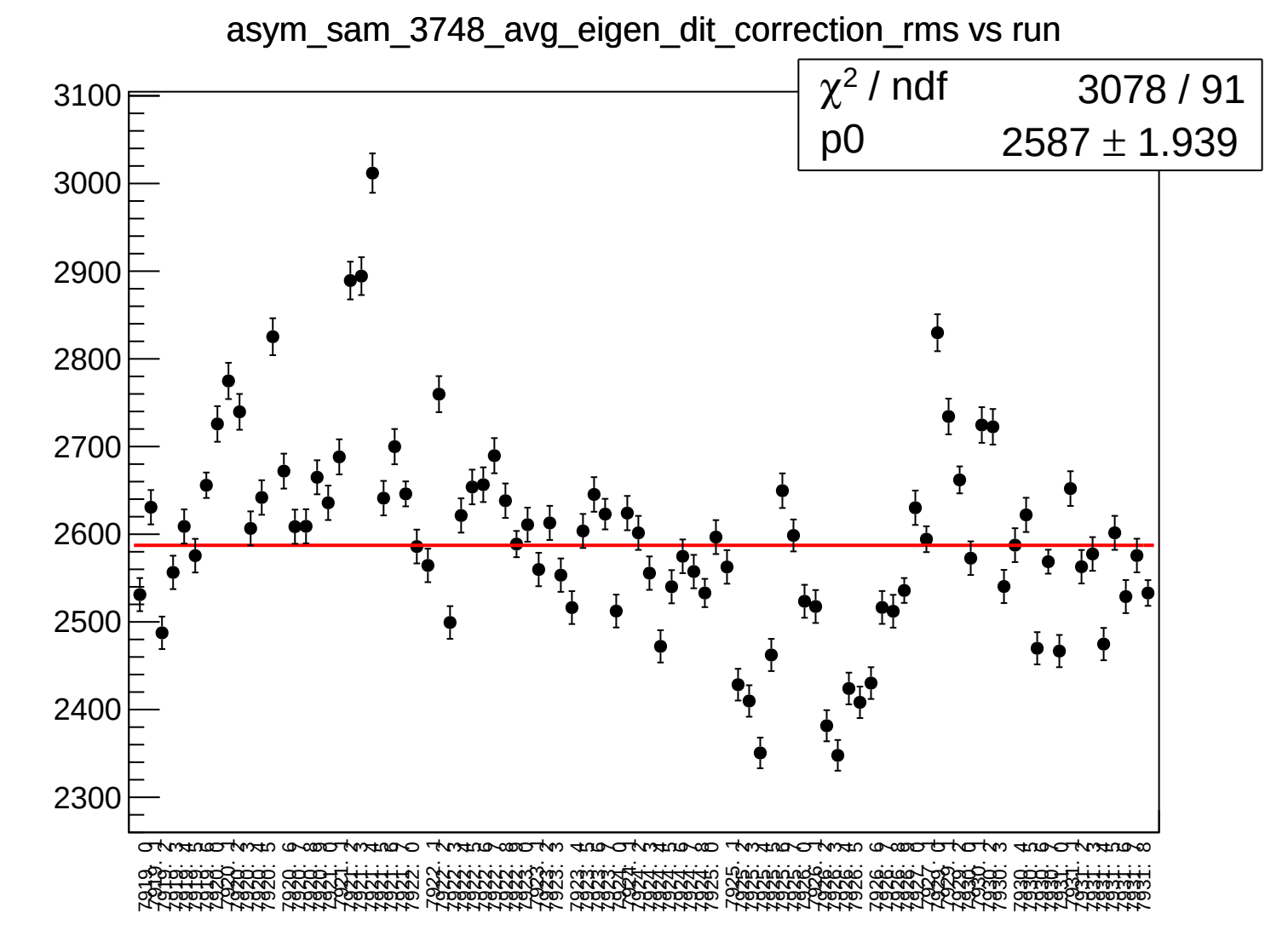

asym_sam_3748_avg_dit_correction_rms vs run
χ² / ndf 3078 / 91
p0 2587 ± 1.939
3100
3000
2900
2800
2700
2600
2500
2400
2300

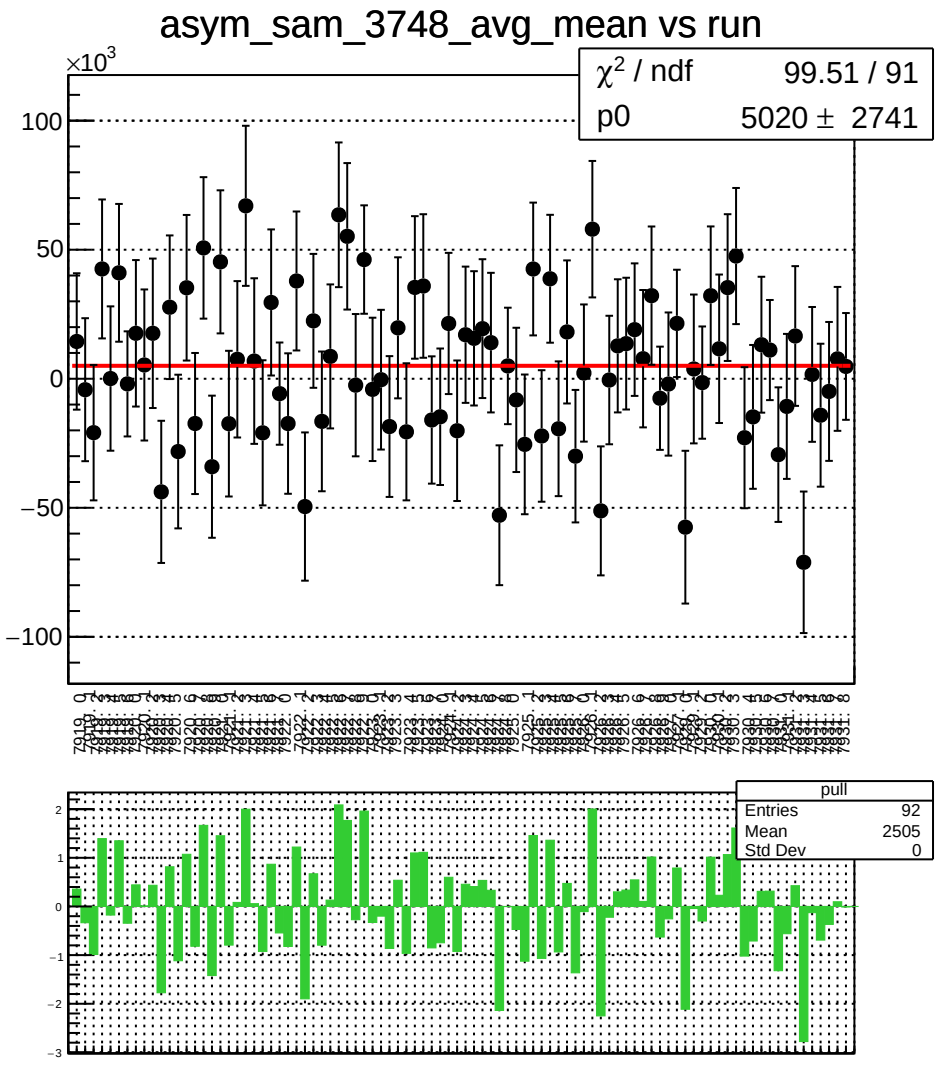

eigen_dit_asym_sam_3748_avg_mean vs run
χ² / ndf 90.37 / 91
p0 −91.86 ± 247.5
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −33.02
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.003285
Std Dev 0.9911
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

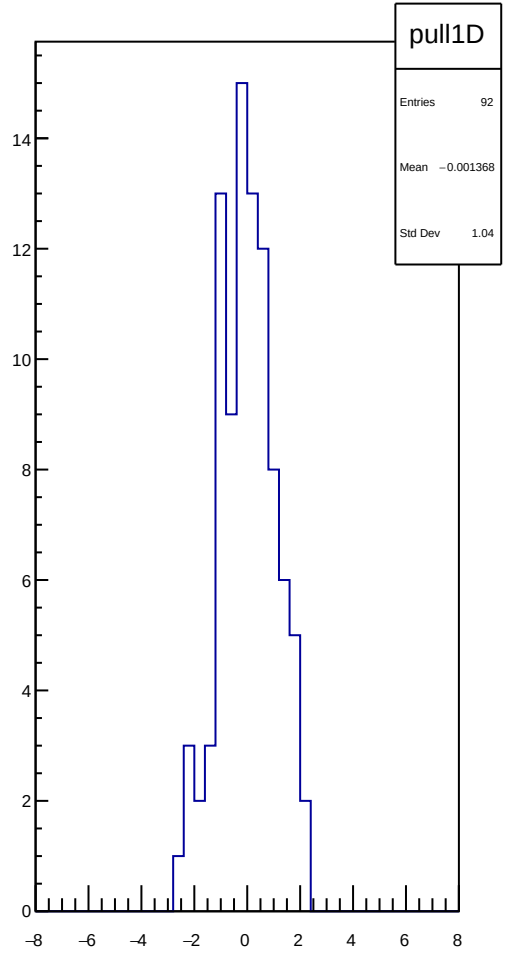

eigen_dit_asym_sam_3748_avg_rms vs run
χ² / ndf 9550 / 91
p0 233 ± 0.175
300
280
260
240
220
200

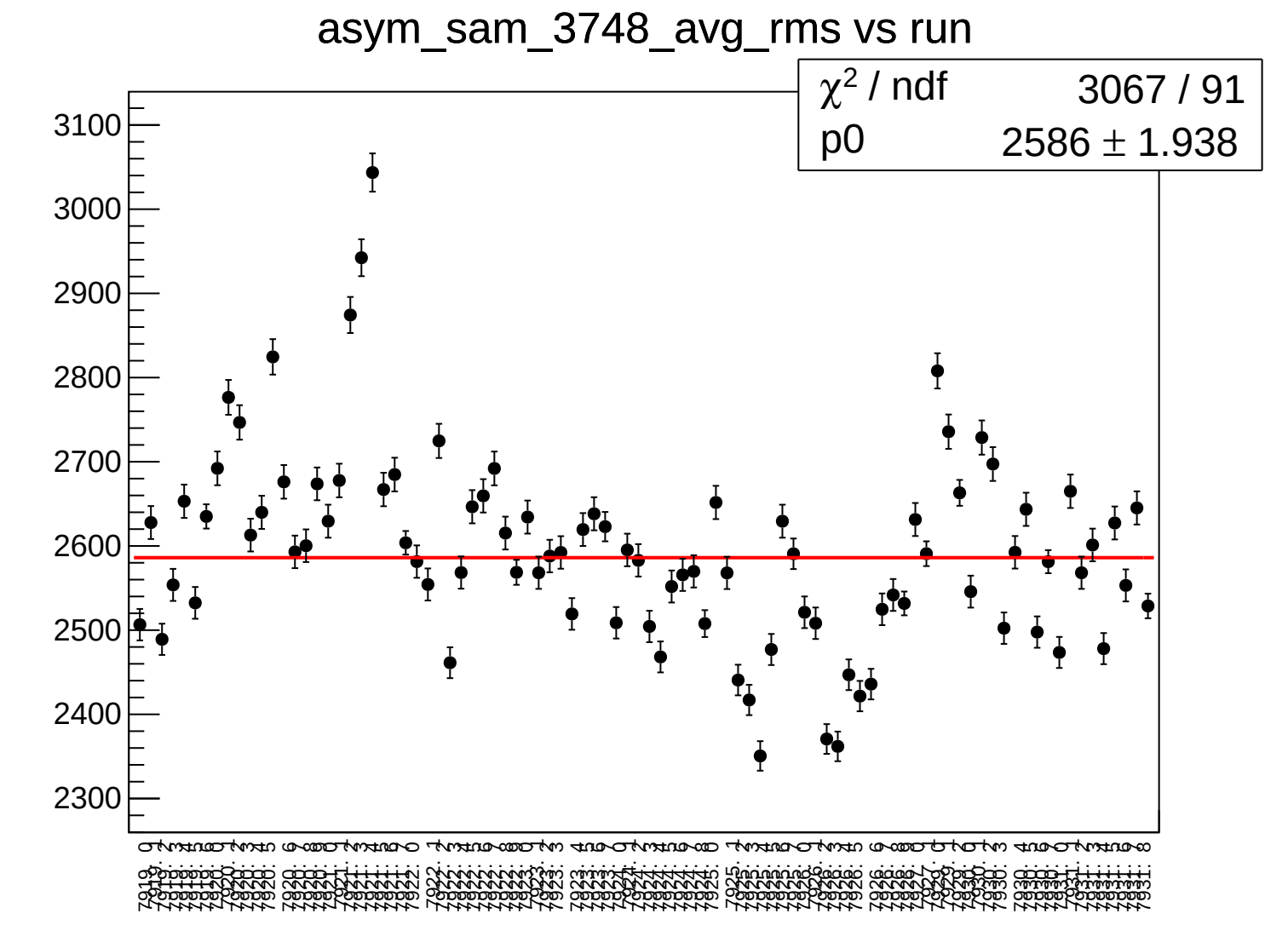

asym_sam_3748_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 102.1 / 91
p0 −5053 ± 2743
100
50
0
−50
−100
pull
Entries 92
Mean 2.865e+05
Std Dev 0
3
2
1
0
−1
−2

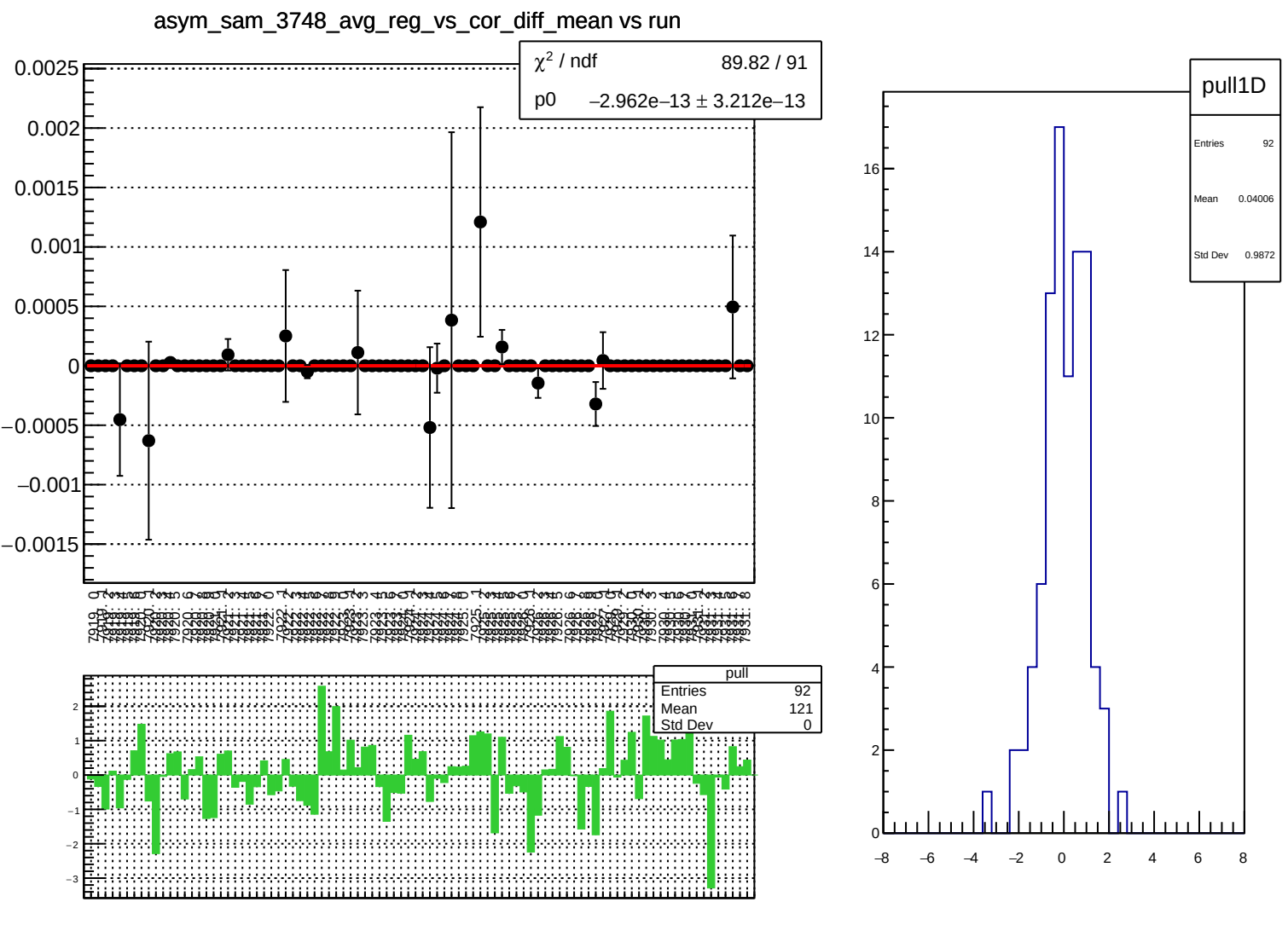

pull1D
Entries 92
Mean 1.181e−05
Std Dev 1.054
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

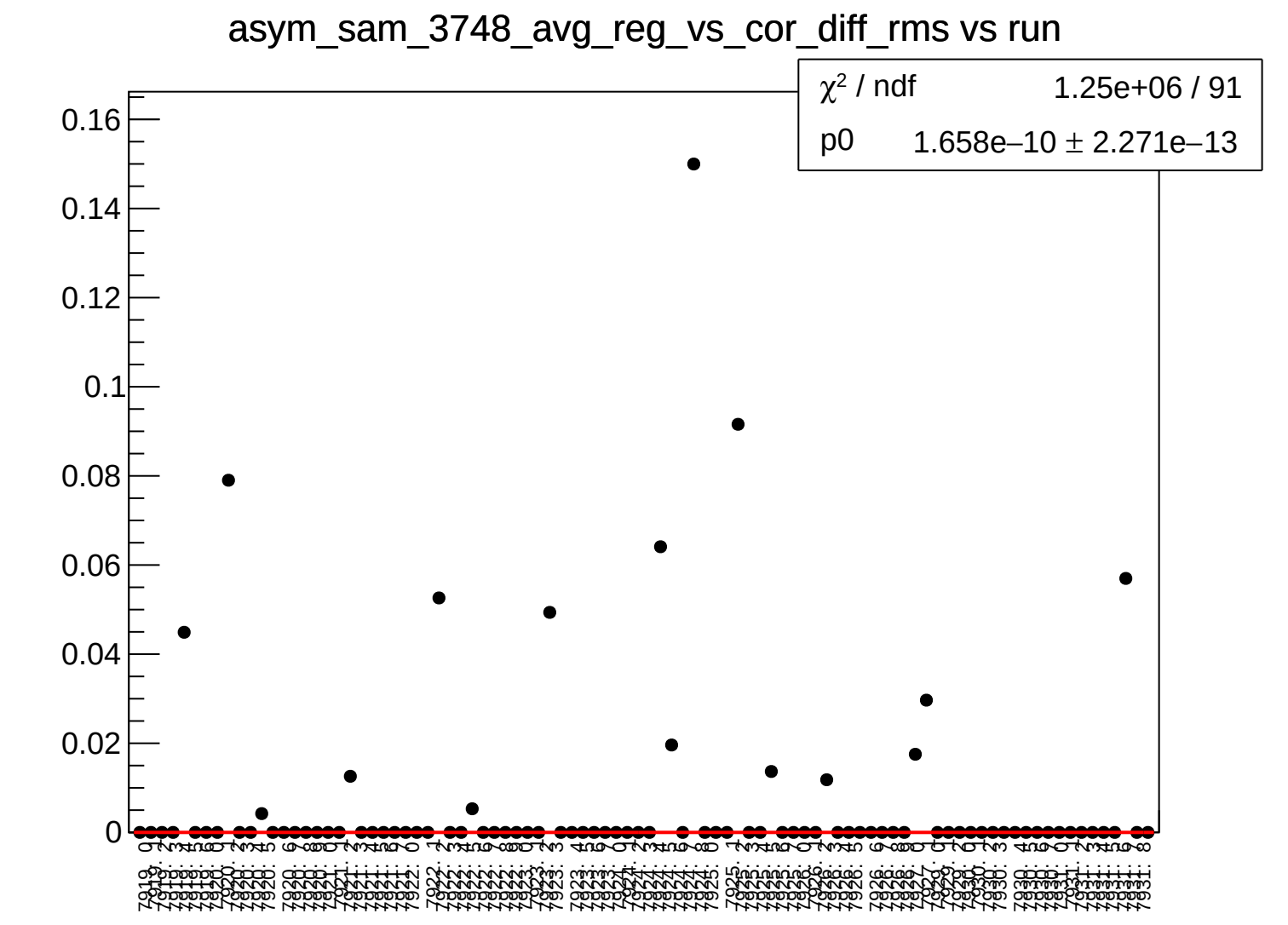

asym_sam_3748_avg_eigen_dit_correction_rms vs run
χ² / ndf 3078 / 91
p0 2587 ± 1.939
3100
3000
2900
2800
2700
2600
2500
2400
2300

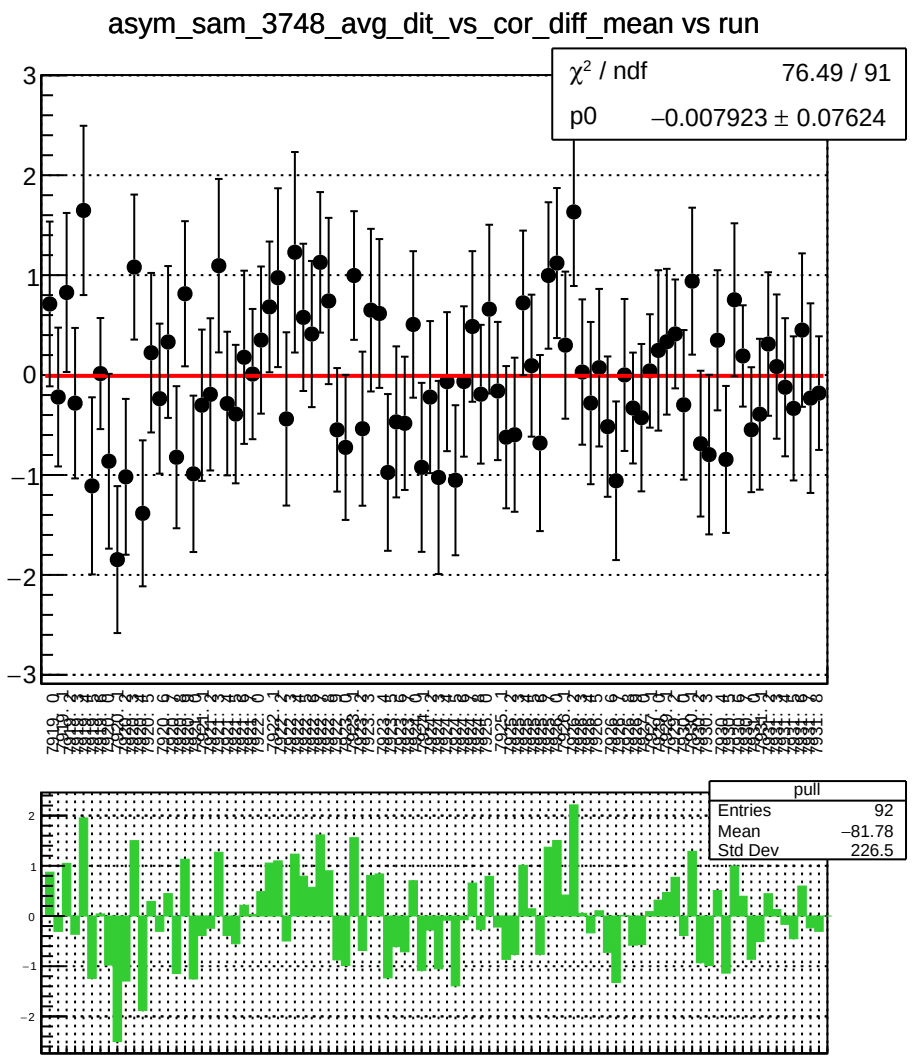

asym_sam_3748_avg_mean vs run
×10^3
χ^2 / ndf 99.51 / 91
p0 5020 ± 2741
100
50
0
−50
−100
pull
Entries 92
Mean 2505
Std Dev 0
2
1
0
−1
−2
−3

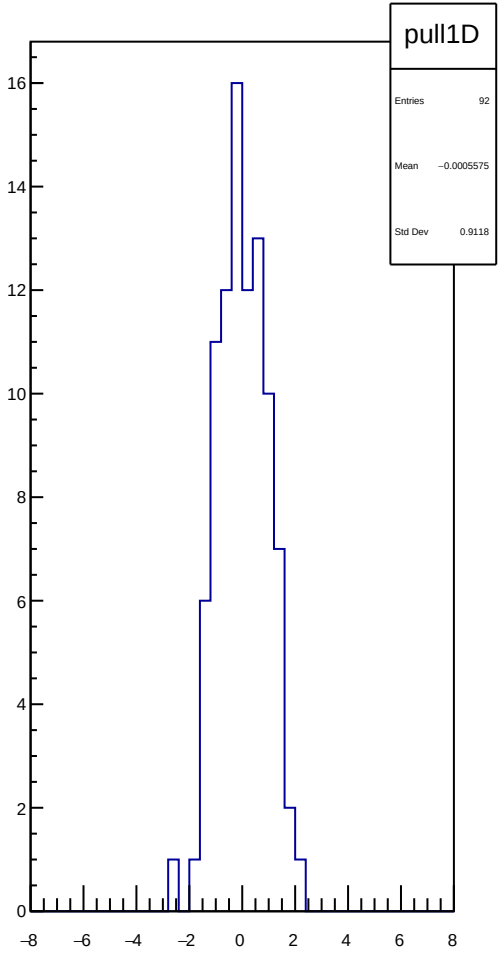

pull1D
Entries 92
Mean −0.001368
Std Dev 1.04
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

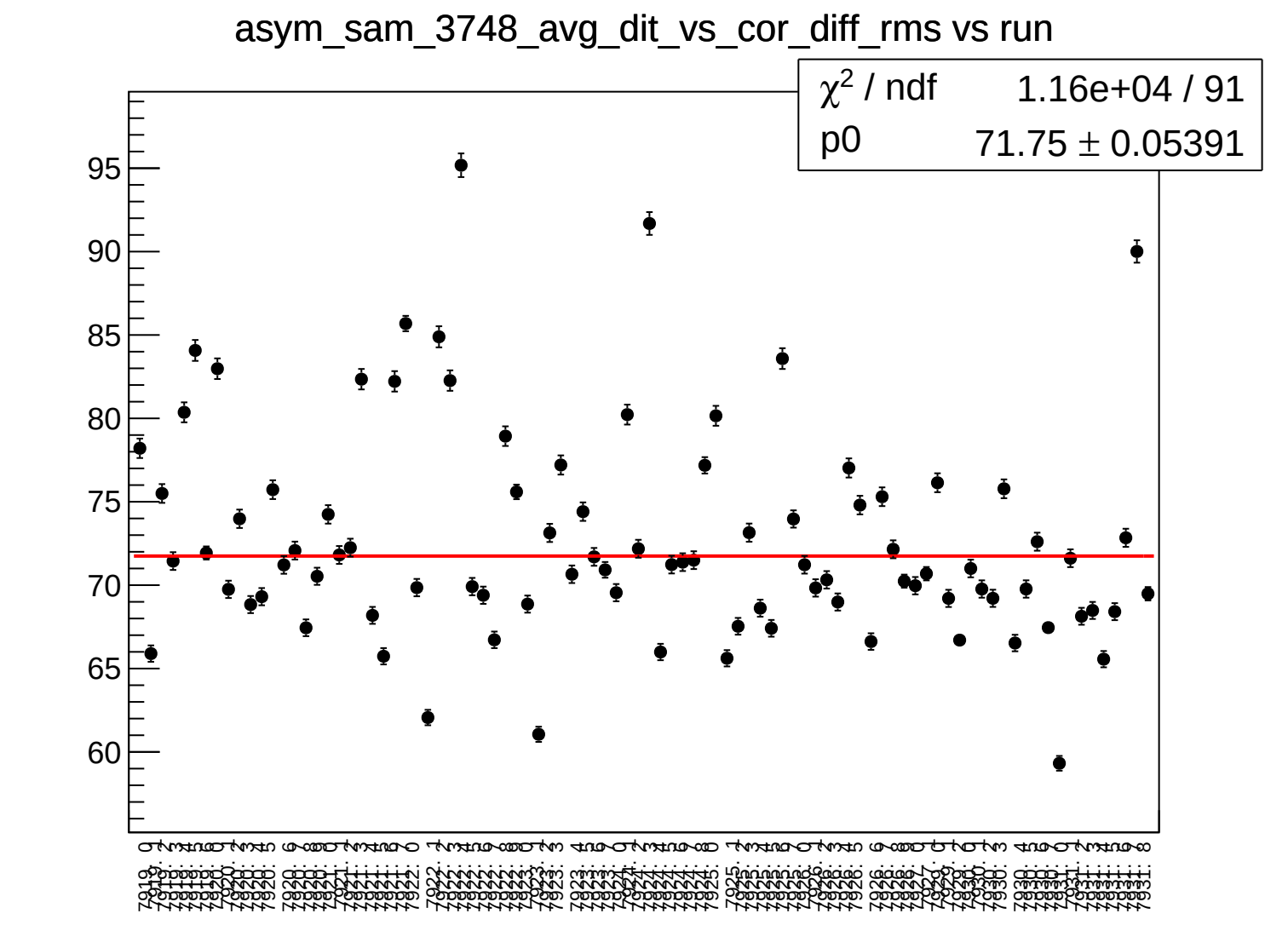

asym_sam_3748_avg_rms vs run
χ^2 / ndf 3067 / 91
p0 2586 ± 1.938
3100
3000
2900
2800
2700
2600
2500
2400
2300

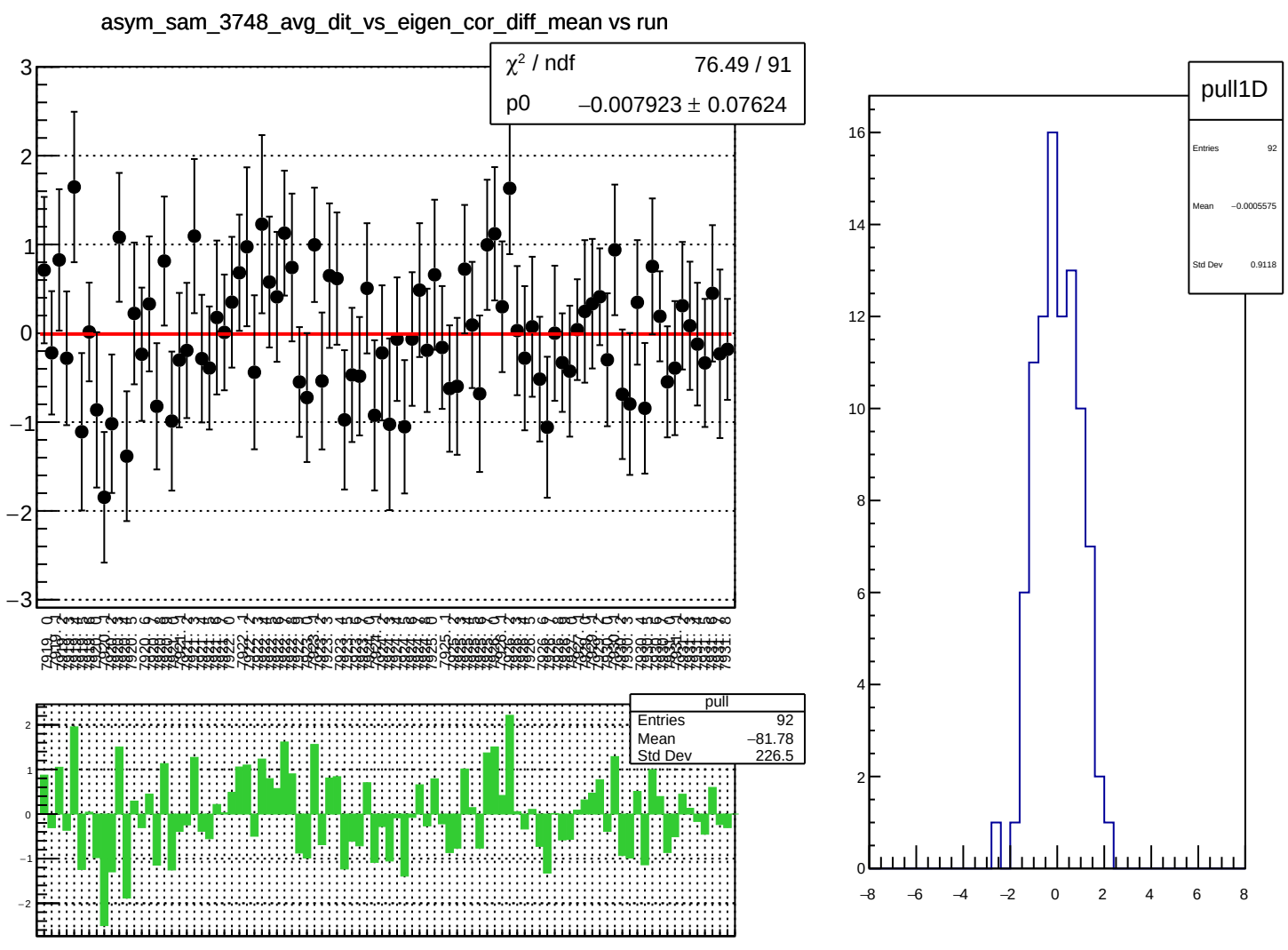

asym_sam_3748_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 89.82 / 91
p0 −2.962e−13 ± 3.212e−13
0.0025
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 92
Mean 121
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean 0.04006
Std Dev 0.9872
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

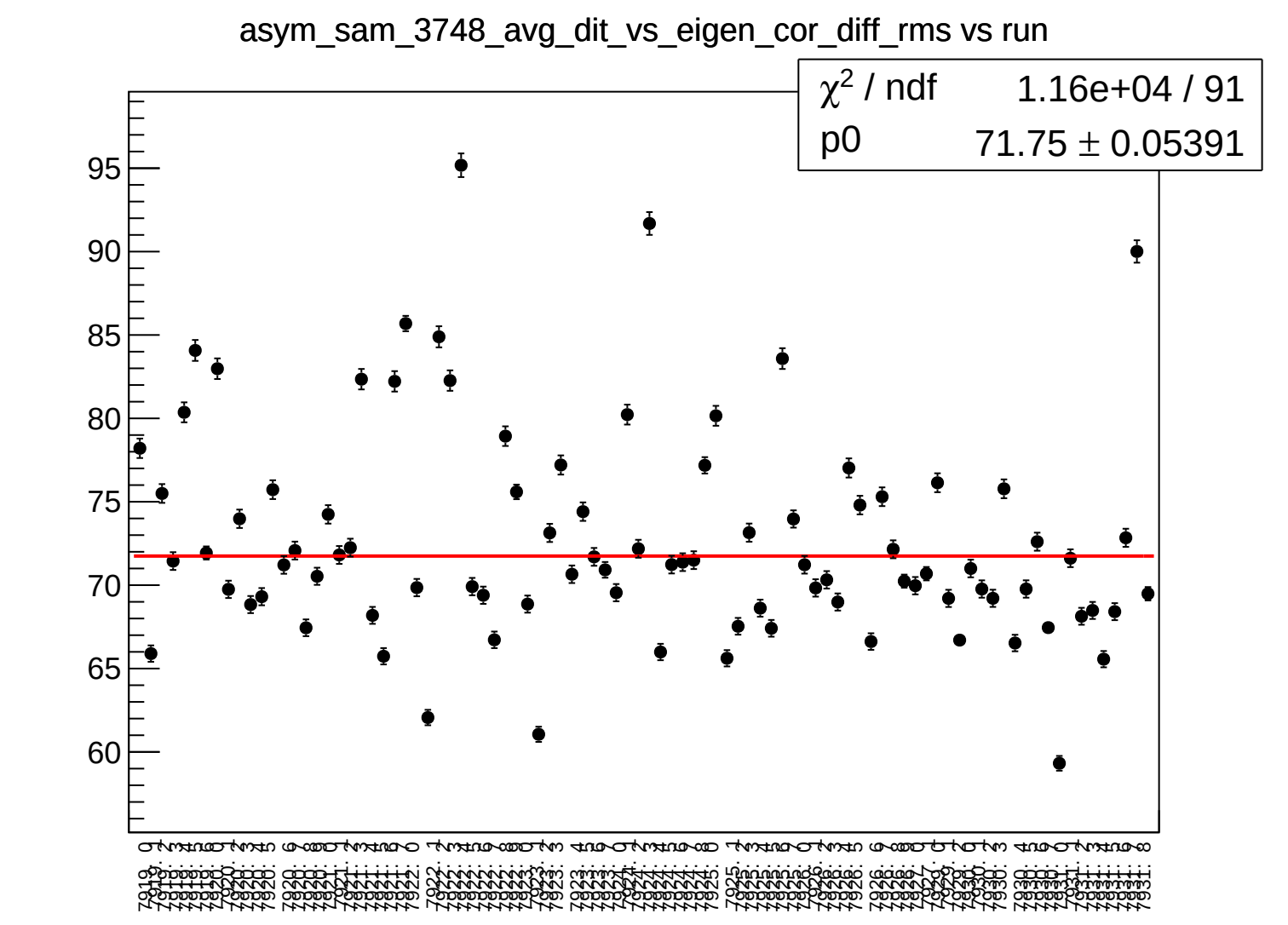

asym_sam_3748_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.25e+06 / 91
p0 1.658e−10 ± 2.271e−13
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

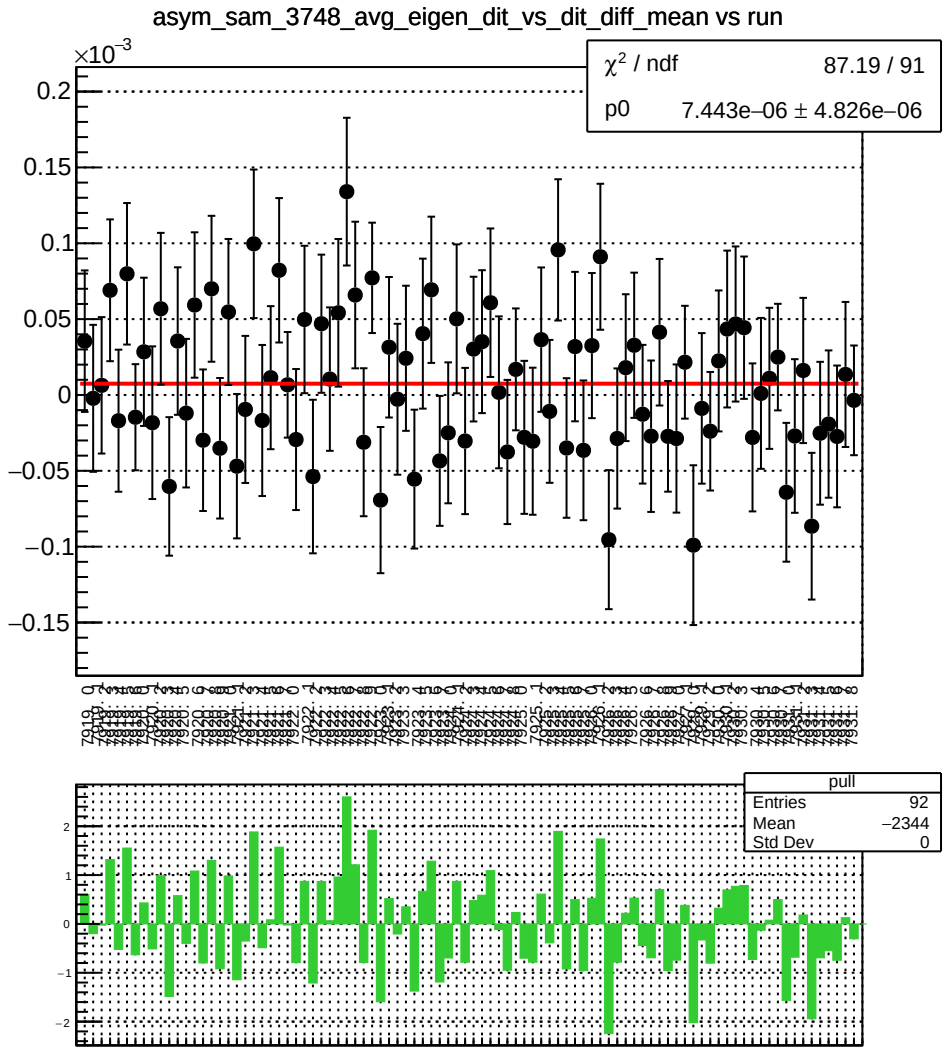

asym_sam_3748_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 76.49 / 91
p0 −0.007923 ± 0.07624
pull
Entries 92
Mean −81.78
Std Dev 226.5

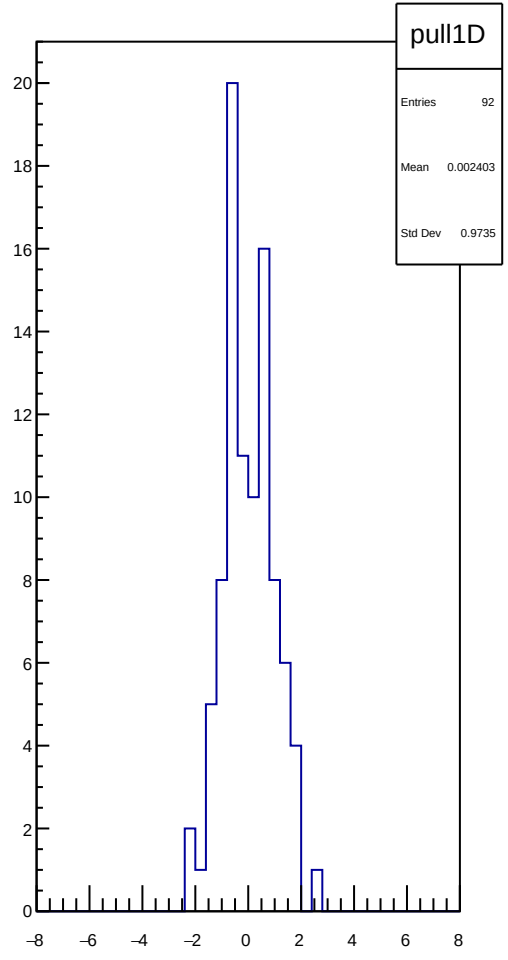

pull1D
Entries 92
Mean −0.0005575
Std Dev 0.9118

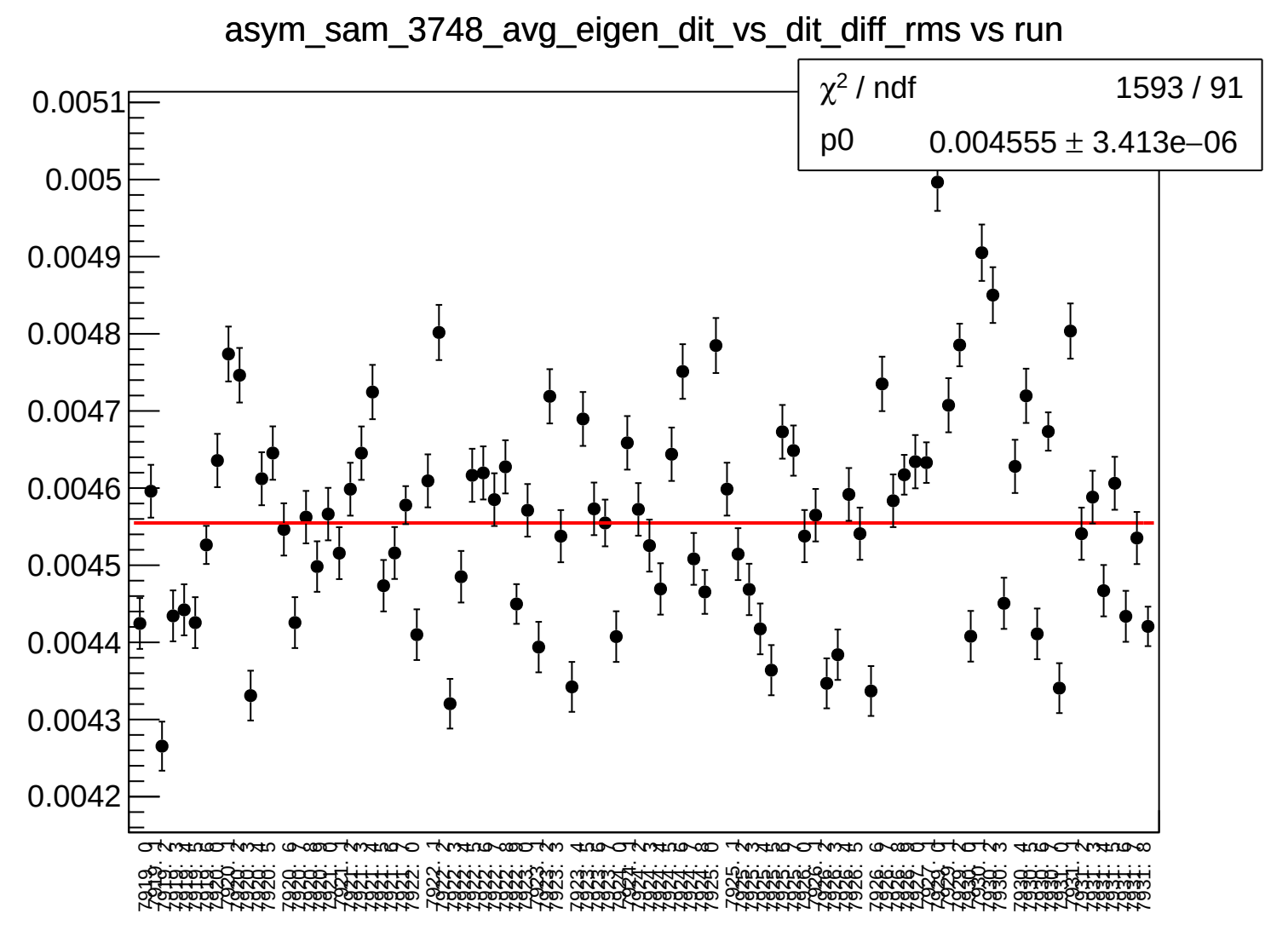

asym_sam_3748_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.16e+04 / 91
p0 71.75 ± 0.05391
95
90
85
80
75
70
65
60

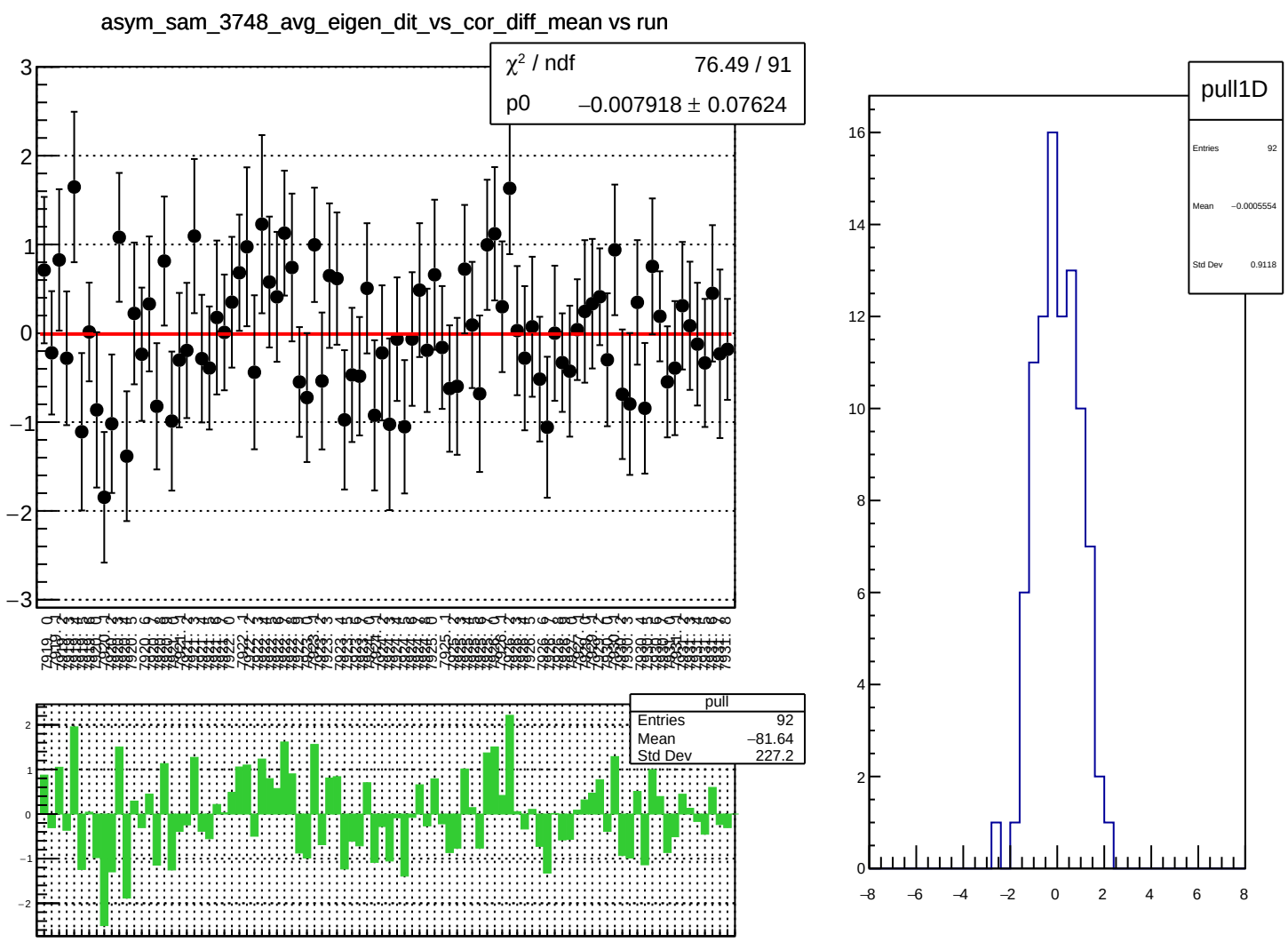

asym_sam_3748_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.49 / 91
p0 −0.007923 ± 0.07624
pull
Entries 92
Mean −81.78
Std Dev 226.5
pull1D
Entries 92
Mean −0.0005575
Std Dev 0.9118

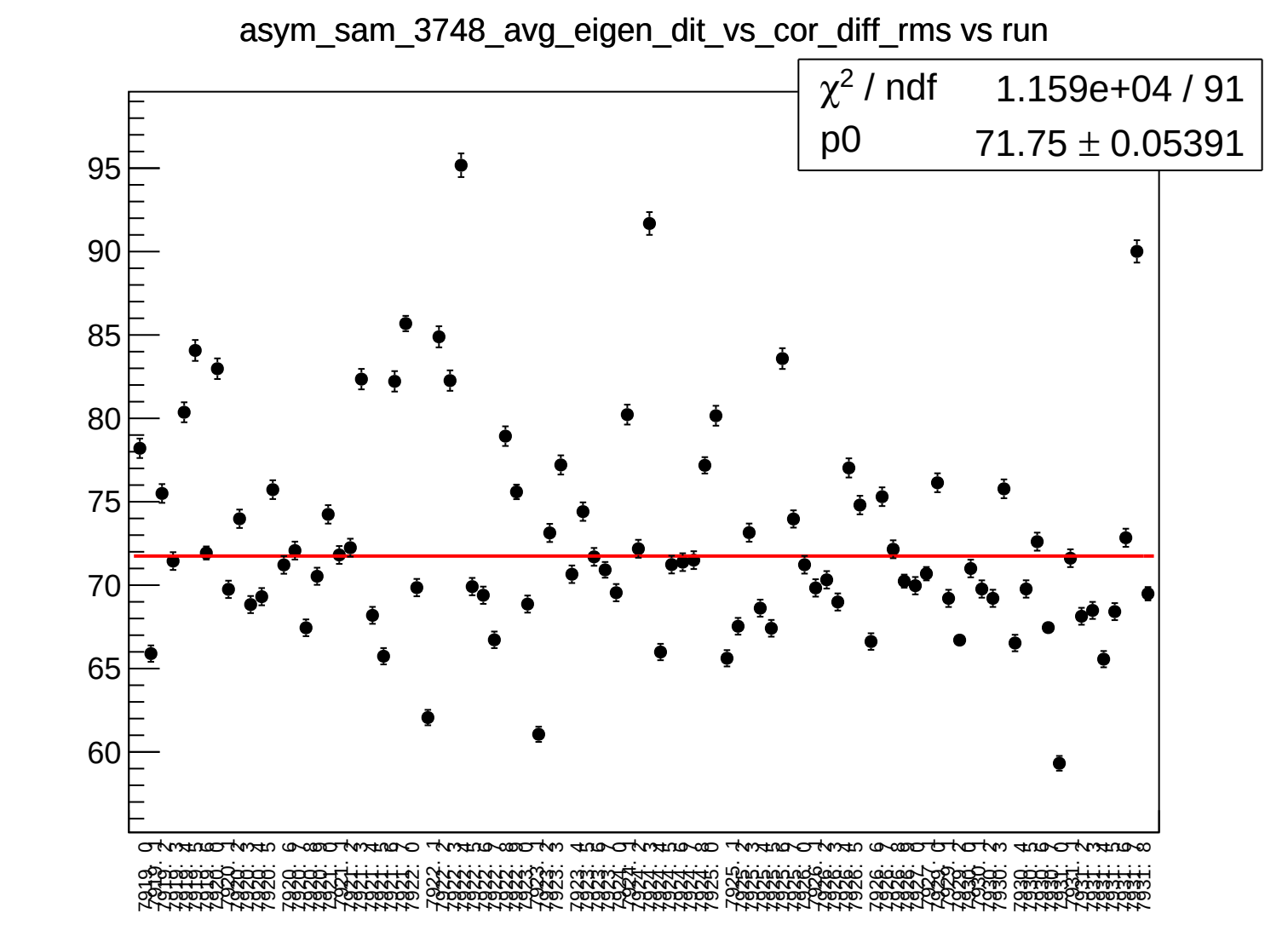

asym_sam_3748_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.16e+04 / 91
p0 71.75 ± 0.05391
95
90
85
80
75
70
65
60

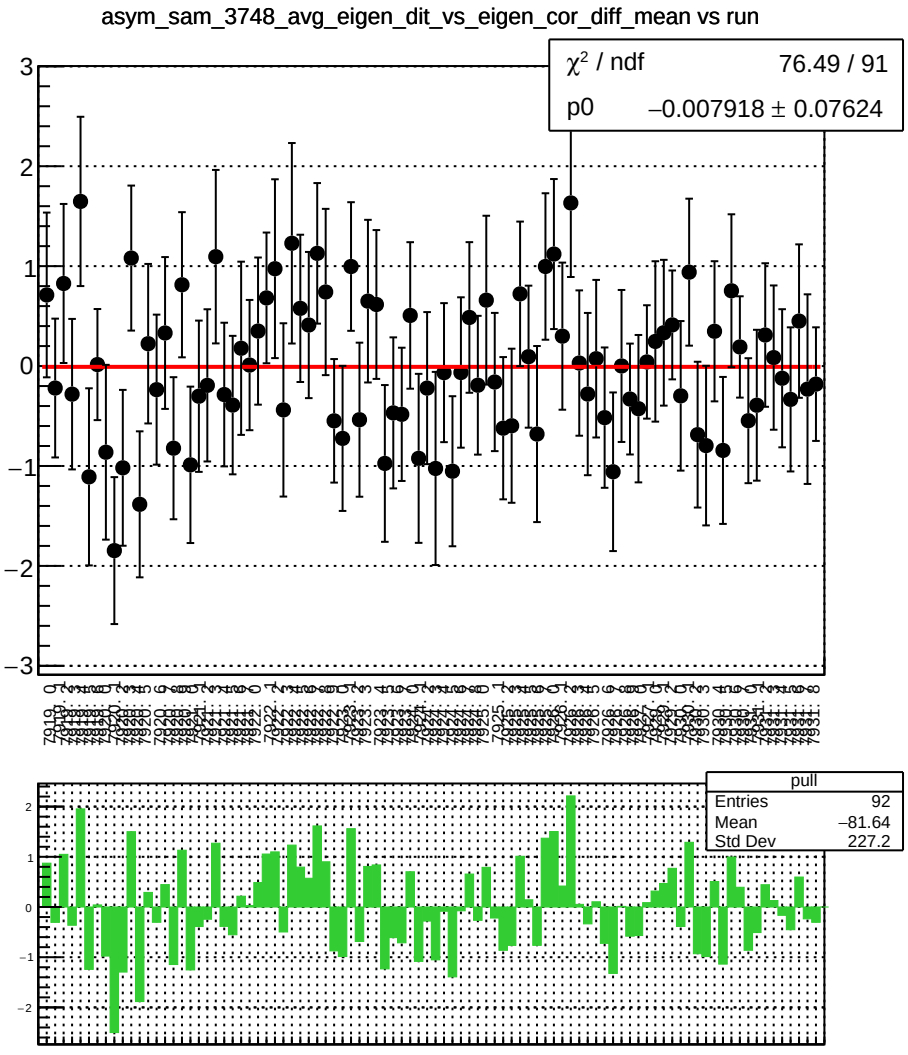

asym_sam_3748_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.19 / 91
p0 7.443e−06 ± 4.826e−06
pull
Entries 92
Mean −2344
Std Dev 0

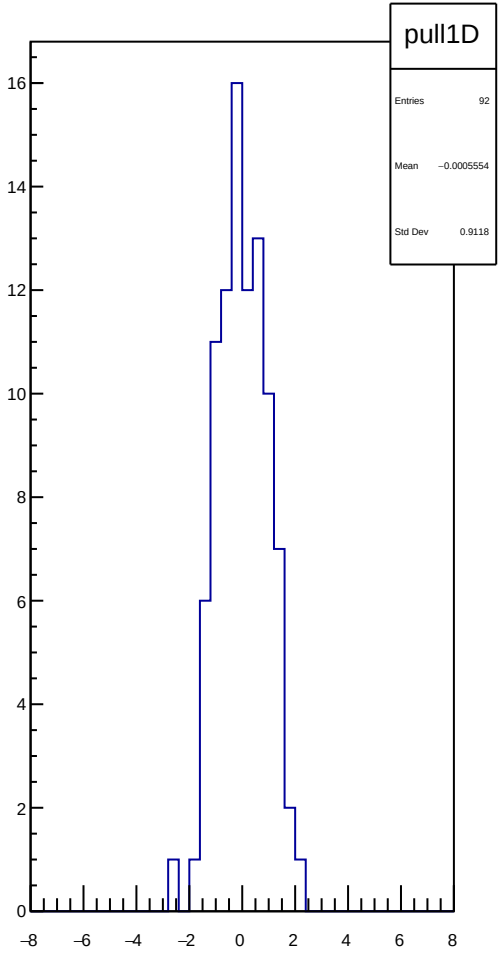

pull1D
Entries 92
Mean 0.002403
Std Dev 0.9735

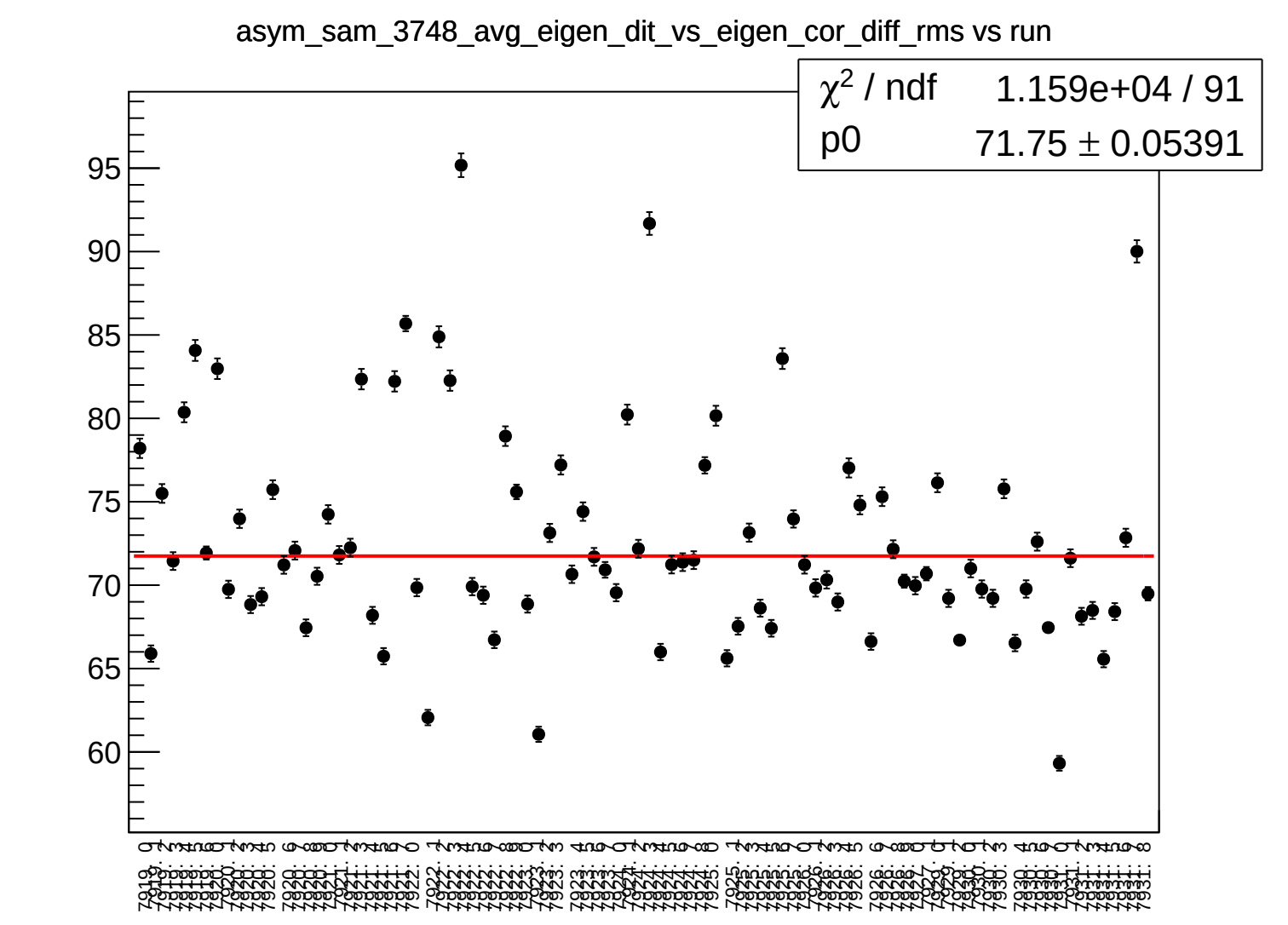

asym_sam_3748_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1593 / 91
p0 0.004555 ± 3.413e−06
0.0051
0.005
0.0049
0.0048
0.0047
0.0046
0.0045
0.0044
0.0043
0.0042

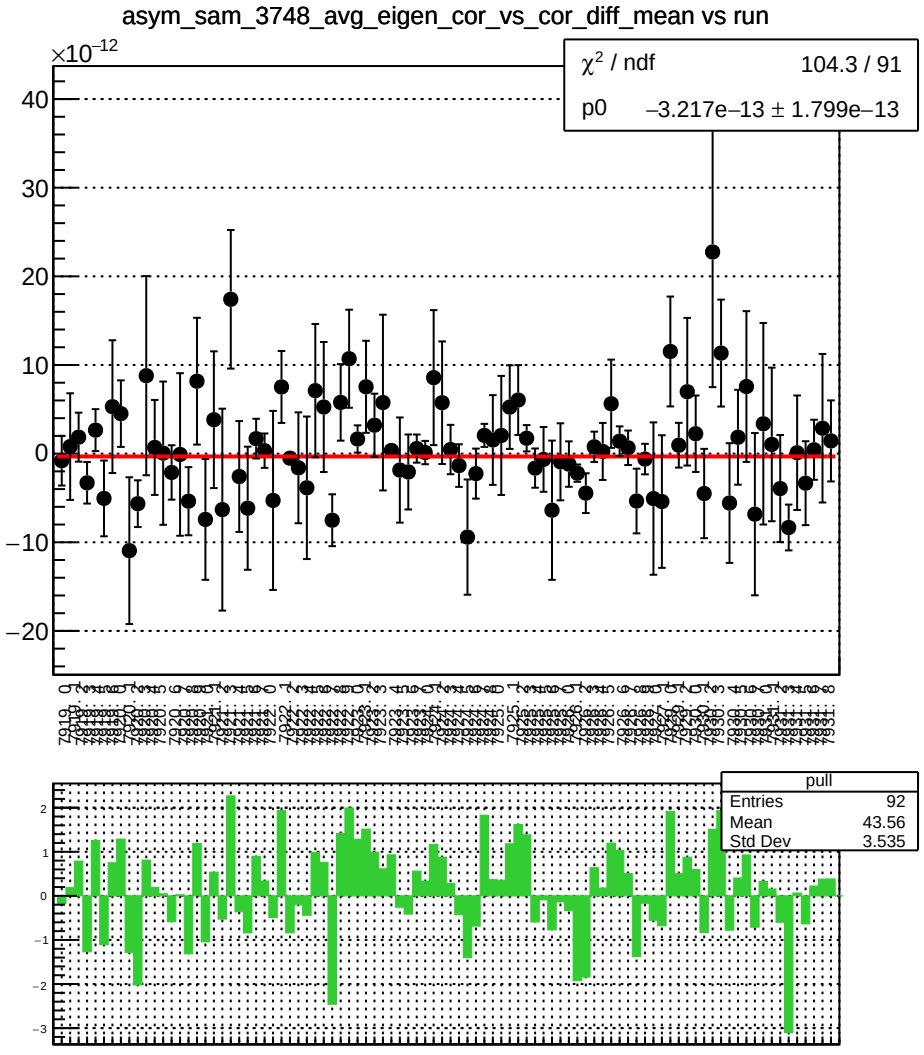

asym_sam_3748_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.49 / 91
p0 −0.007918 ± 0.07624
pull
Entries 92
Mean −81.64
Std Dev 227.2
pull1D
Entries 92
Mean −0.0005554
Std Dev 0.9118

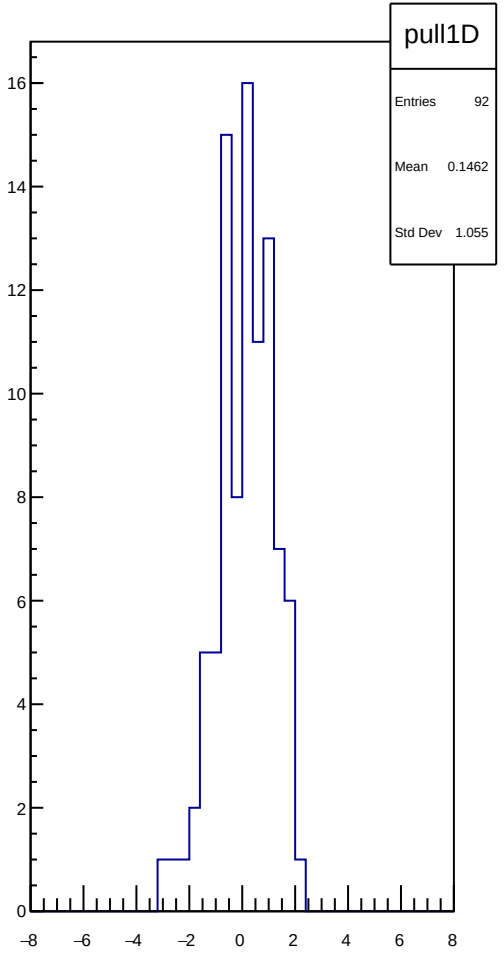

asym_sam_3748_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.159e+04 / 91
p0 71.75 ± 0.05391
95
90
85
80
75
70
65
60

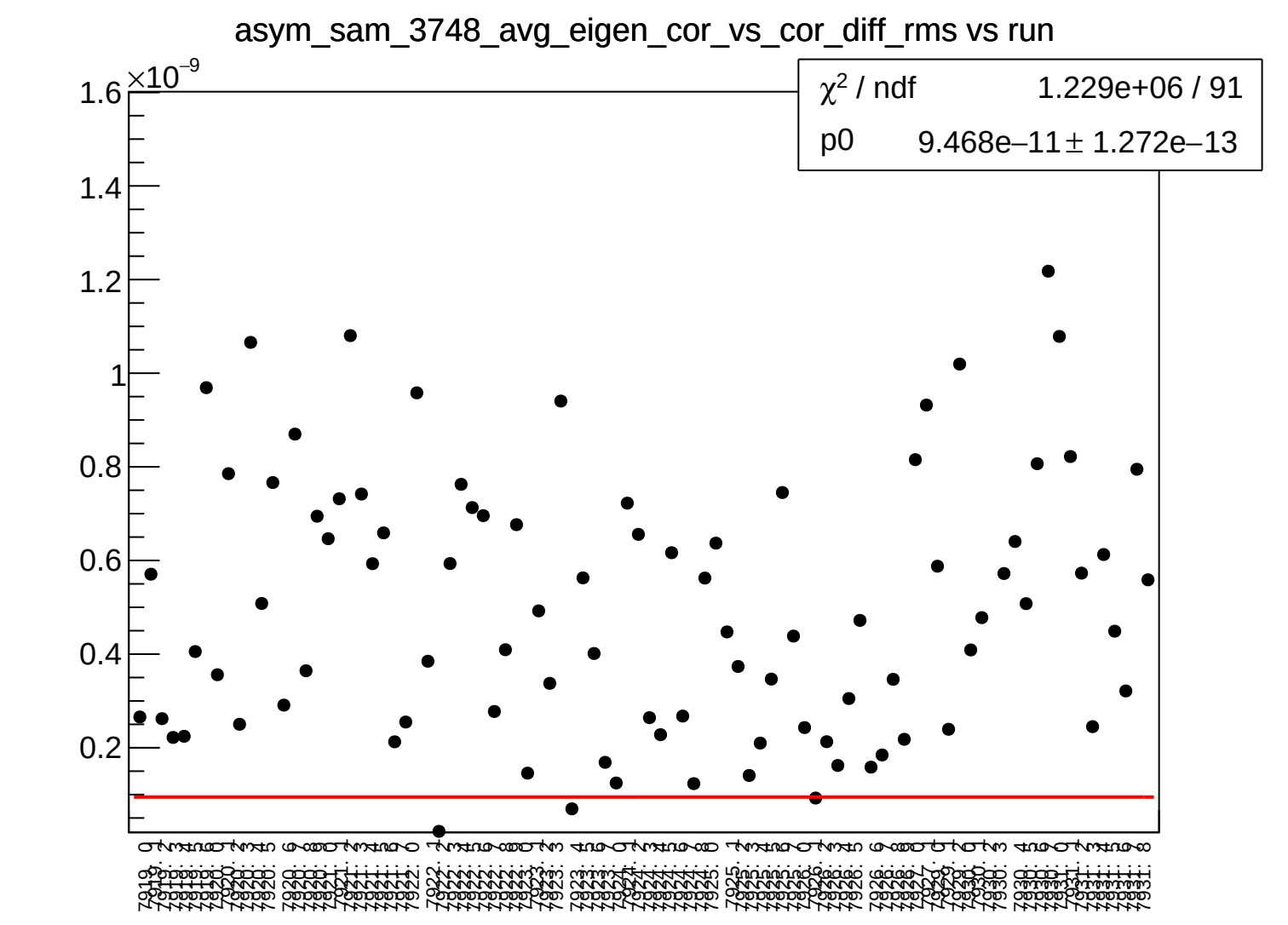

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.49 / 91
p0 −0.007918 ± 0.07624
pull
Entries 92
Mean −81.64
Std Dev 227.2

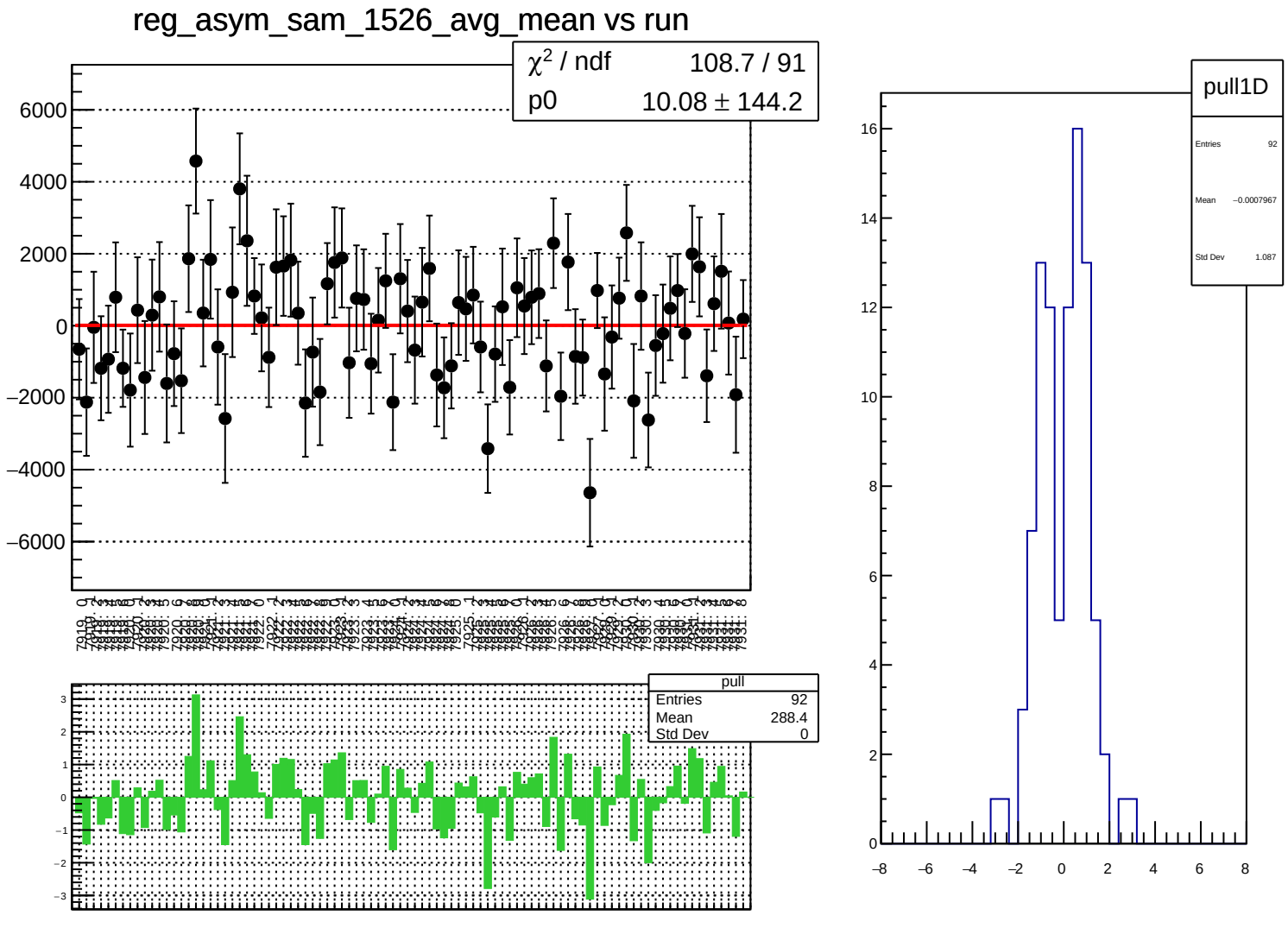

pull1D
Entries 92
Mean −0.0005554
Std Dev 0.9118

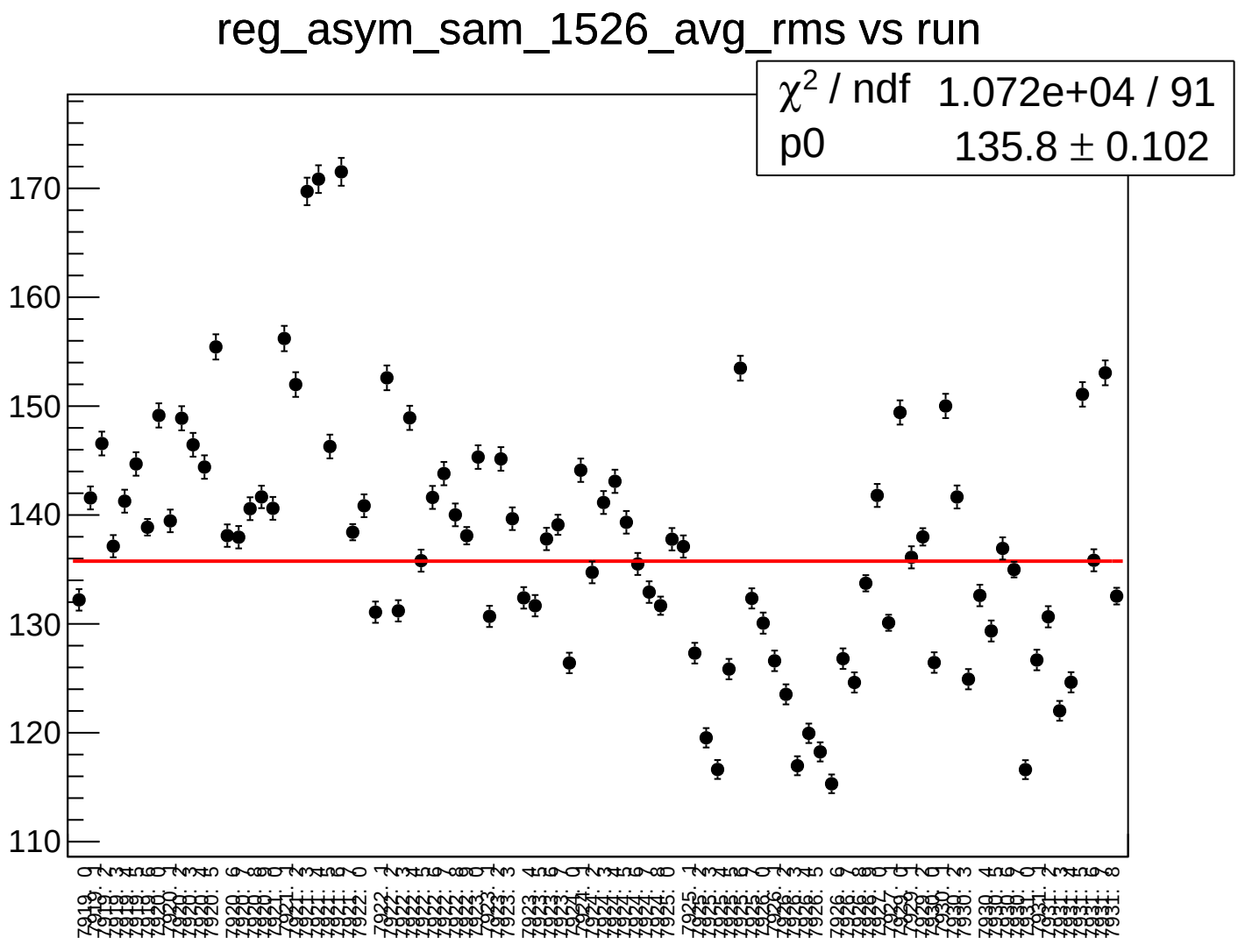

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.159e+04 / 91
p0 71.75 ± 0.05391
95
90
85
80
75
70
65
60

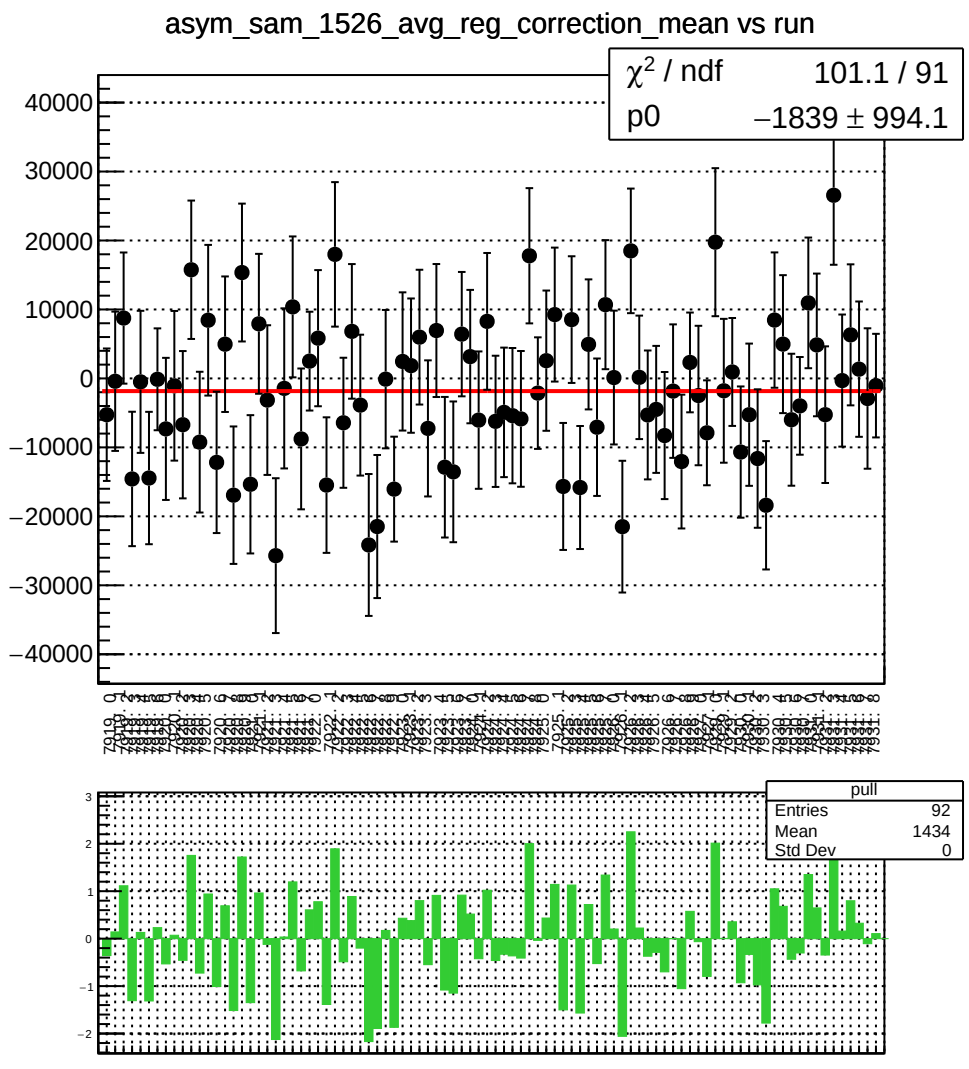

asym_sam_3748_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 104.3 / 91
p0 −3.217e−13 ± 1.799e−13
pull
Entries 92
Mean 43.56
Std Dev 3.535

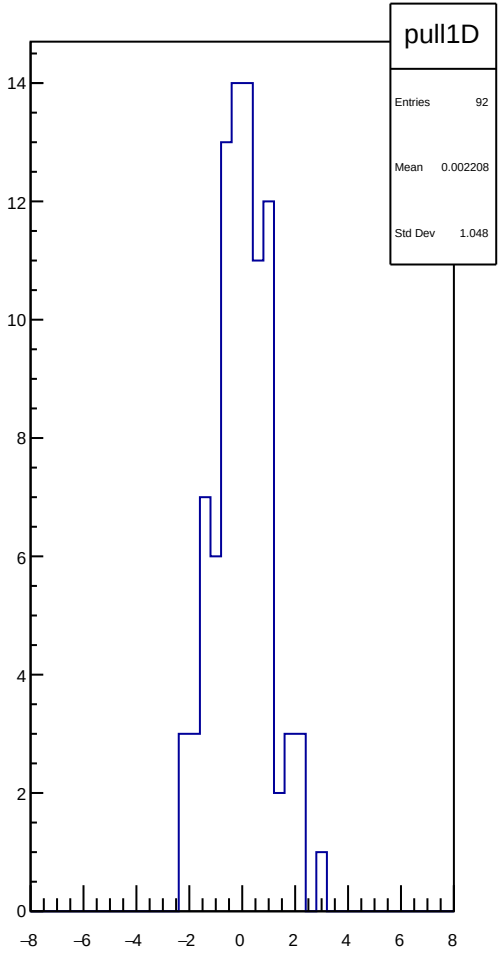

pull1D
Entries 92
Mean 0.1462
Std Dev 1.055

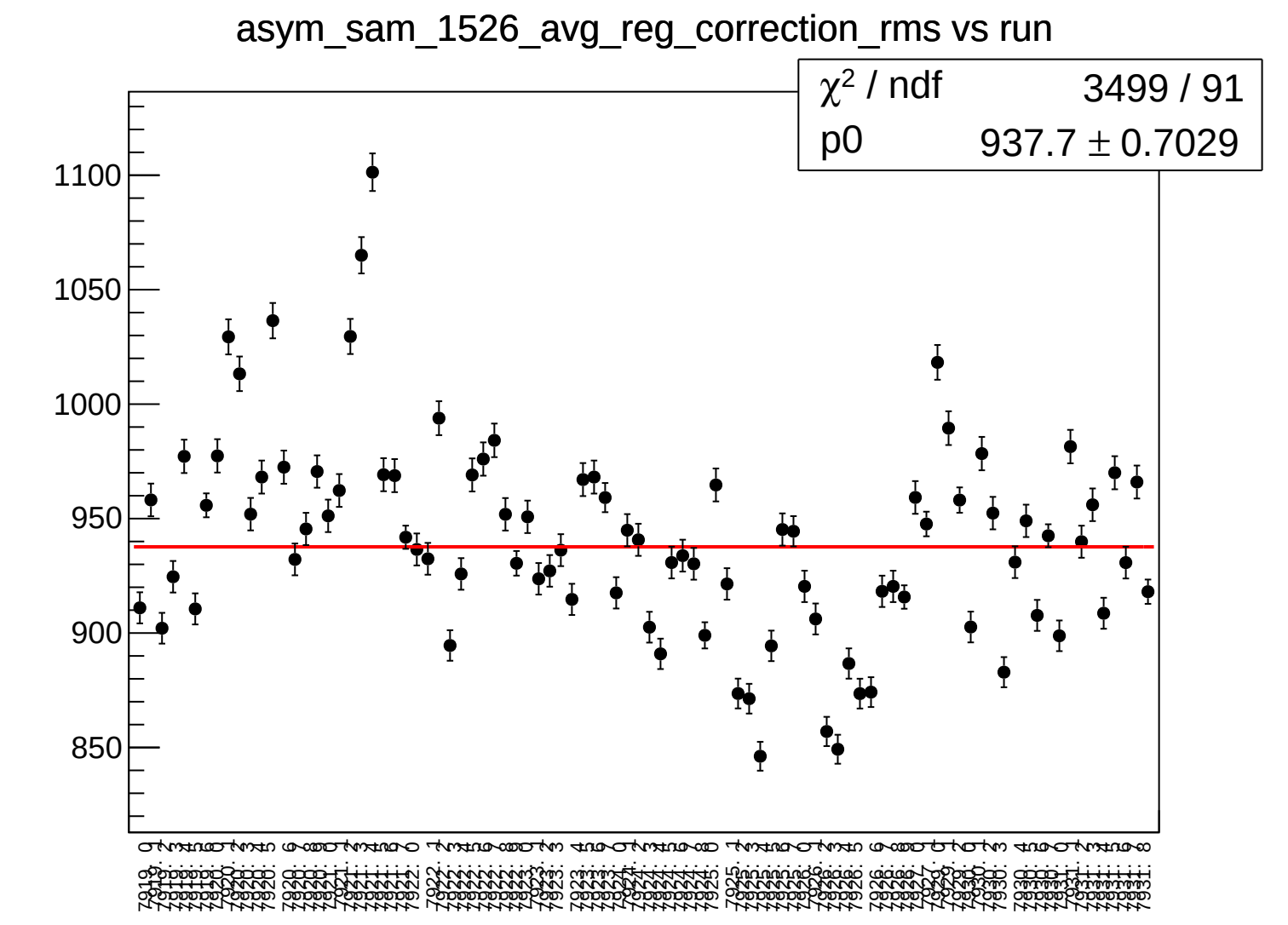

asym_sam_3748_avg_eigen_cor_vs_cor_diff_rms vs run
χ^2 / ndf 1.229e+06 / 91
p0 9.468e−11 ± 1.272e−13
×10⁻⁹
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

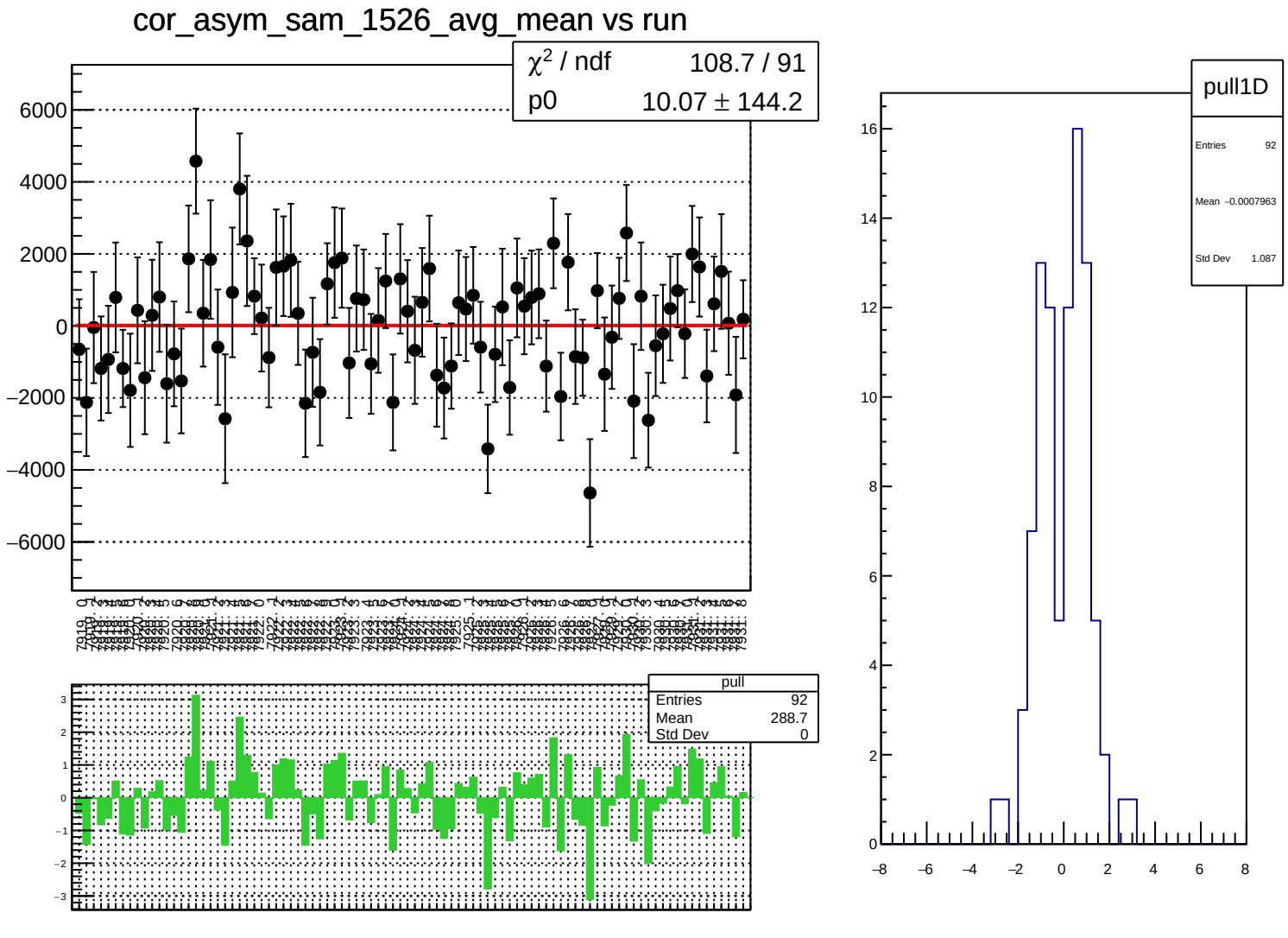

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 108.7 / 91
p0 10.08 ± 144.2
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 92
Mean 288.4
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.0007967
Std Dev 1.087
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

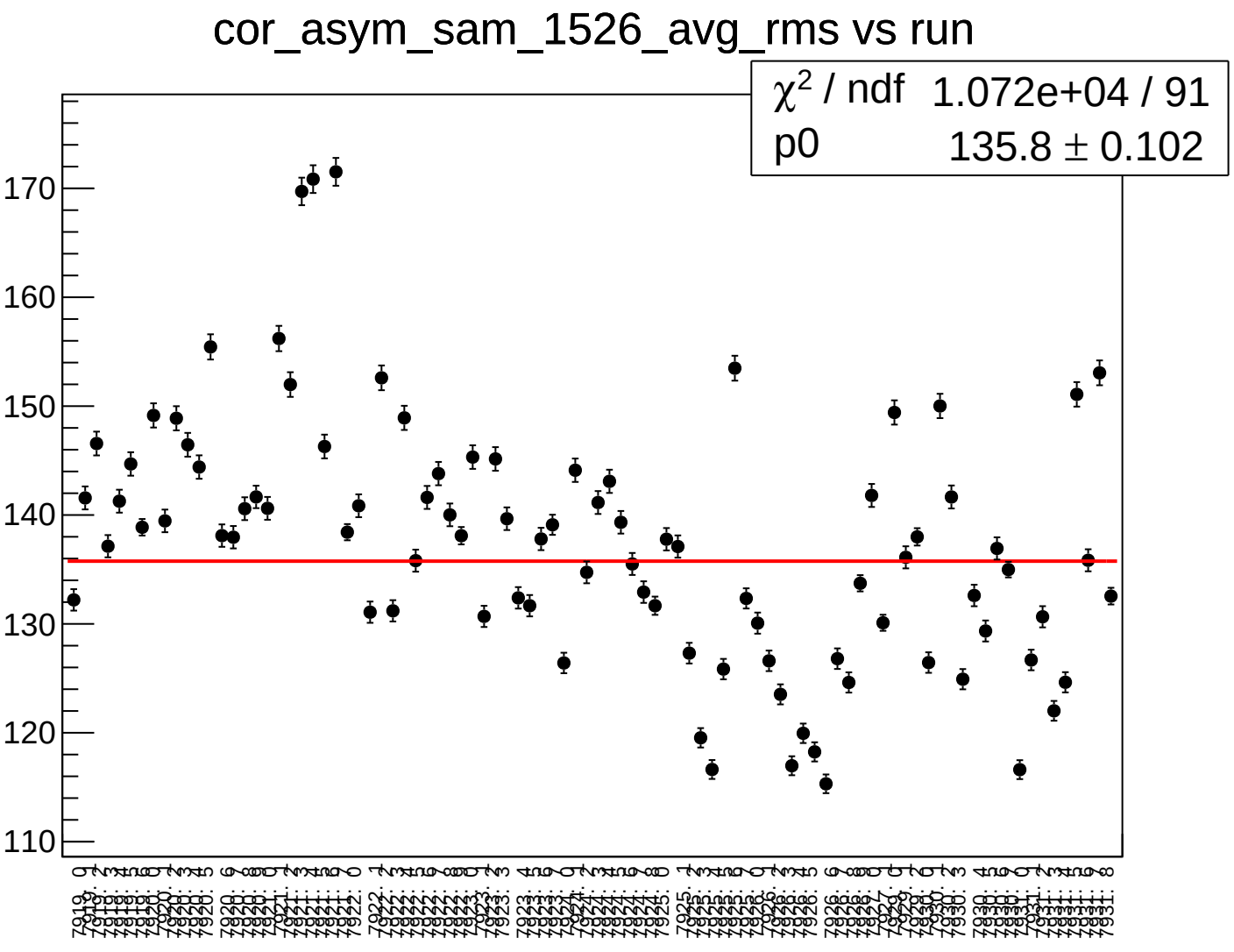

reg_asym_sam_1526_avg_rms vs run
χ^2 / ndf 1.072e+04 / 91
p0 135.8 ± 0.102
170
160
150
140
130
120
110

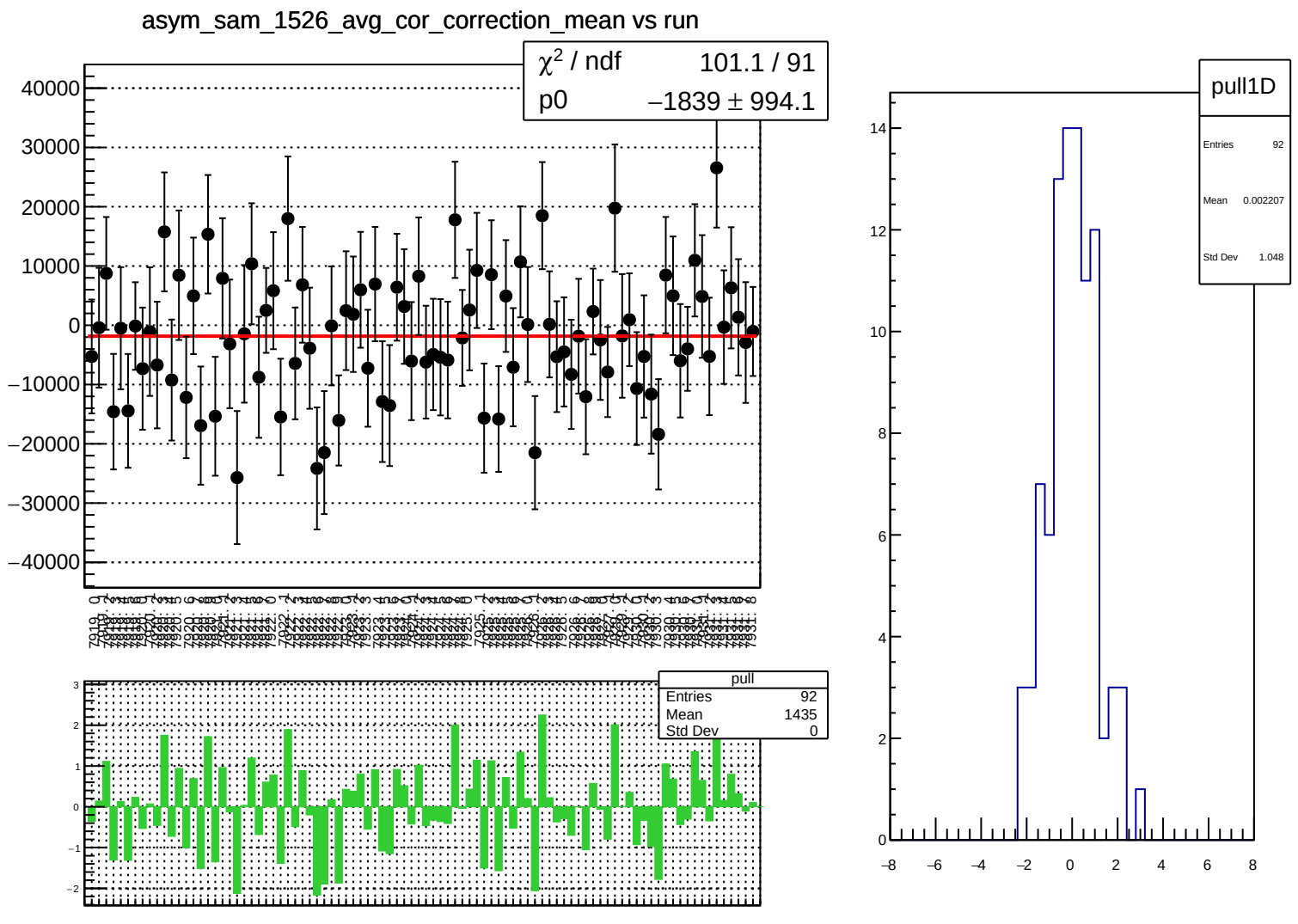

asym_sam_1526_avg_reg_correction_mean vs run
χ² / ndf 101.1 / 91
p0 −1839 ± 994.1
pull
Entries 92
Mean 1434
Std Dev 0

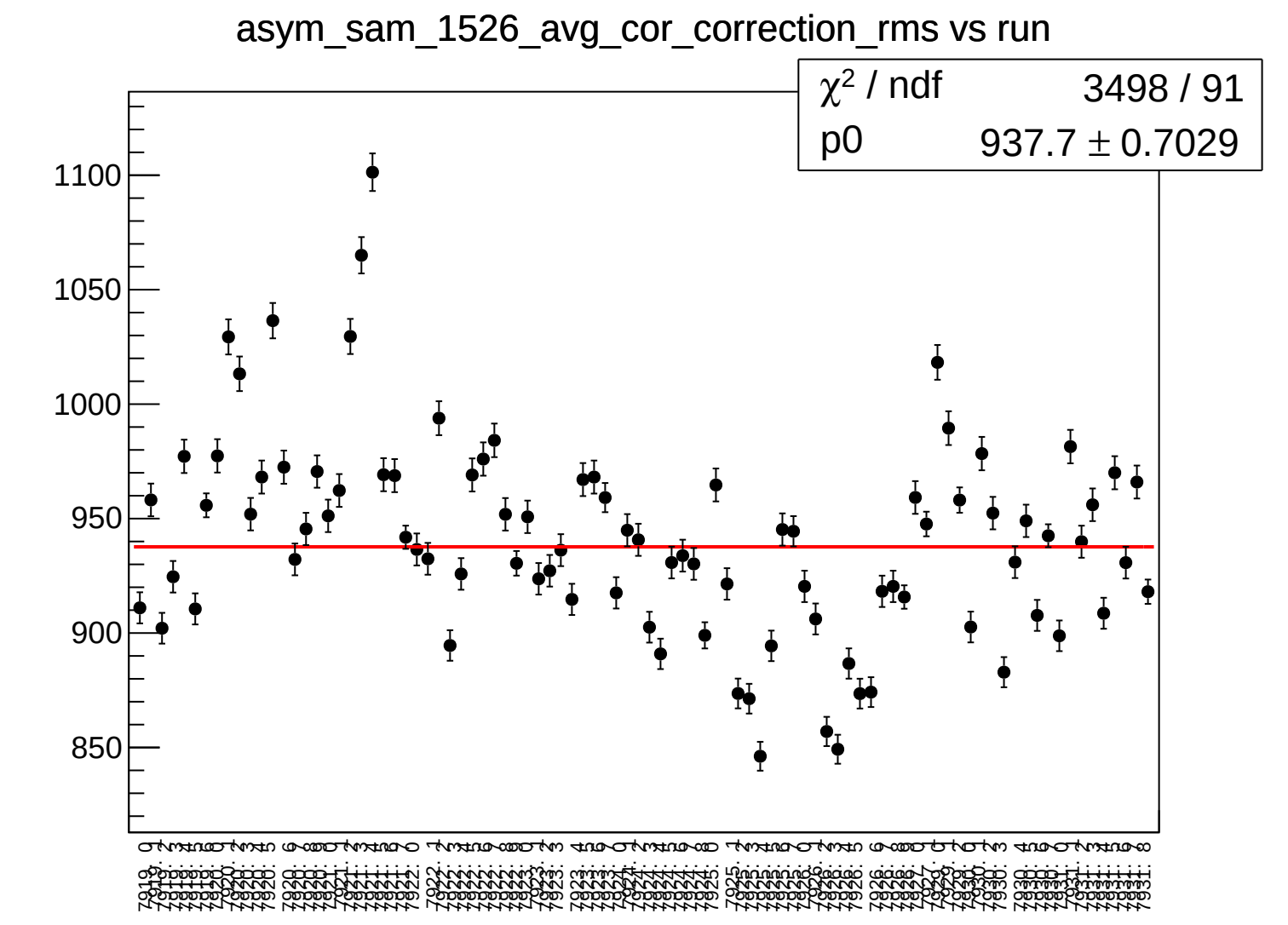

pull1D
Entries 92
Mean 0.002208
Std Dev 1.048

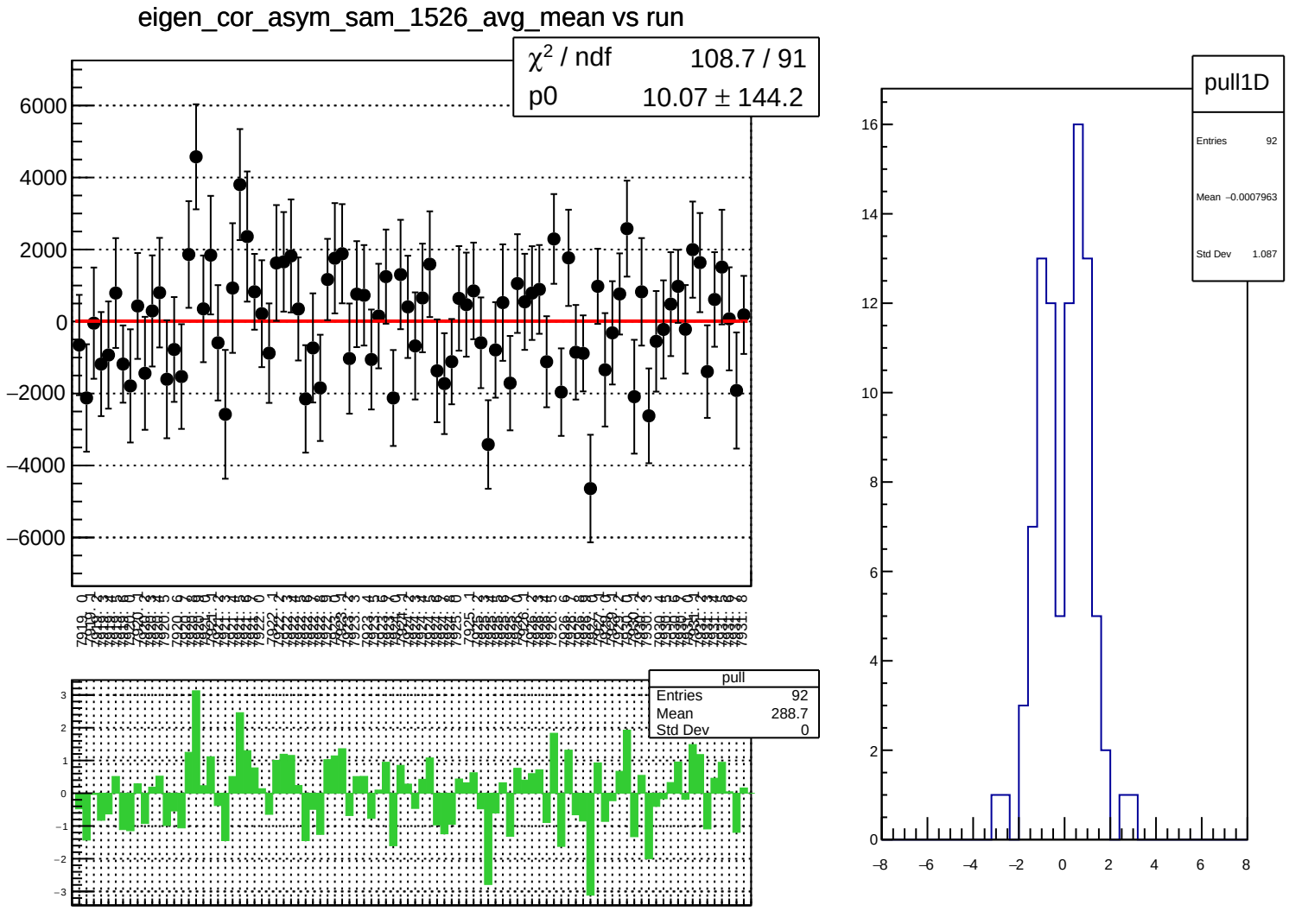

asym_sam_1526_avg_reg_correction_rms vs run
χ² / ndf 3499 / 91
p0 937.7 ± 0.7029
1100
1050
1000
950
900
850

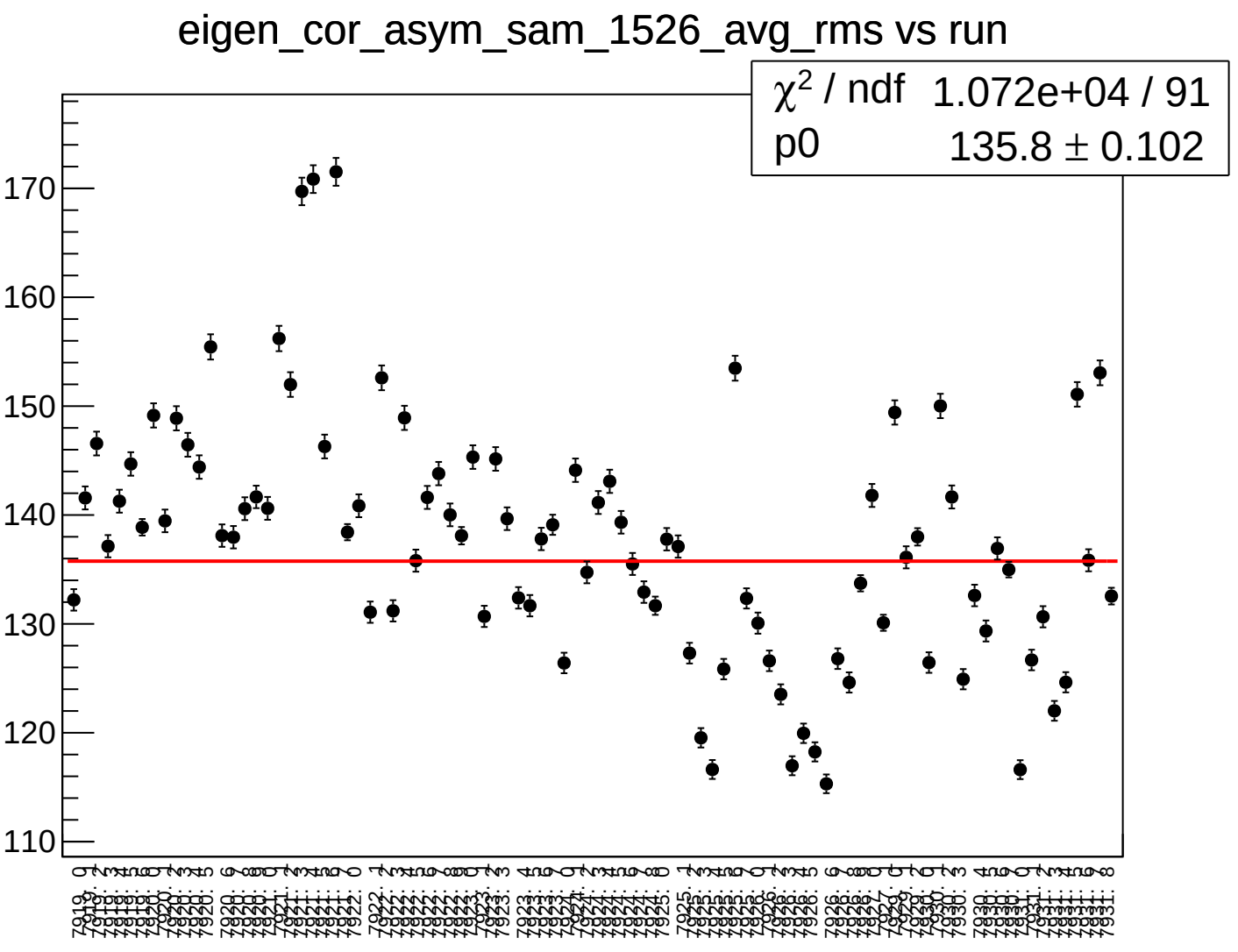

cor_asym_sam_1526_avg_mean vs run
χ² / ndf 108.7 / 91
p0 10.07 ± 144.2
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 92
Mean 288.7
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.0007963
Std Dev 1.087
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

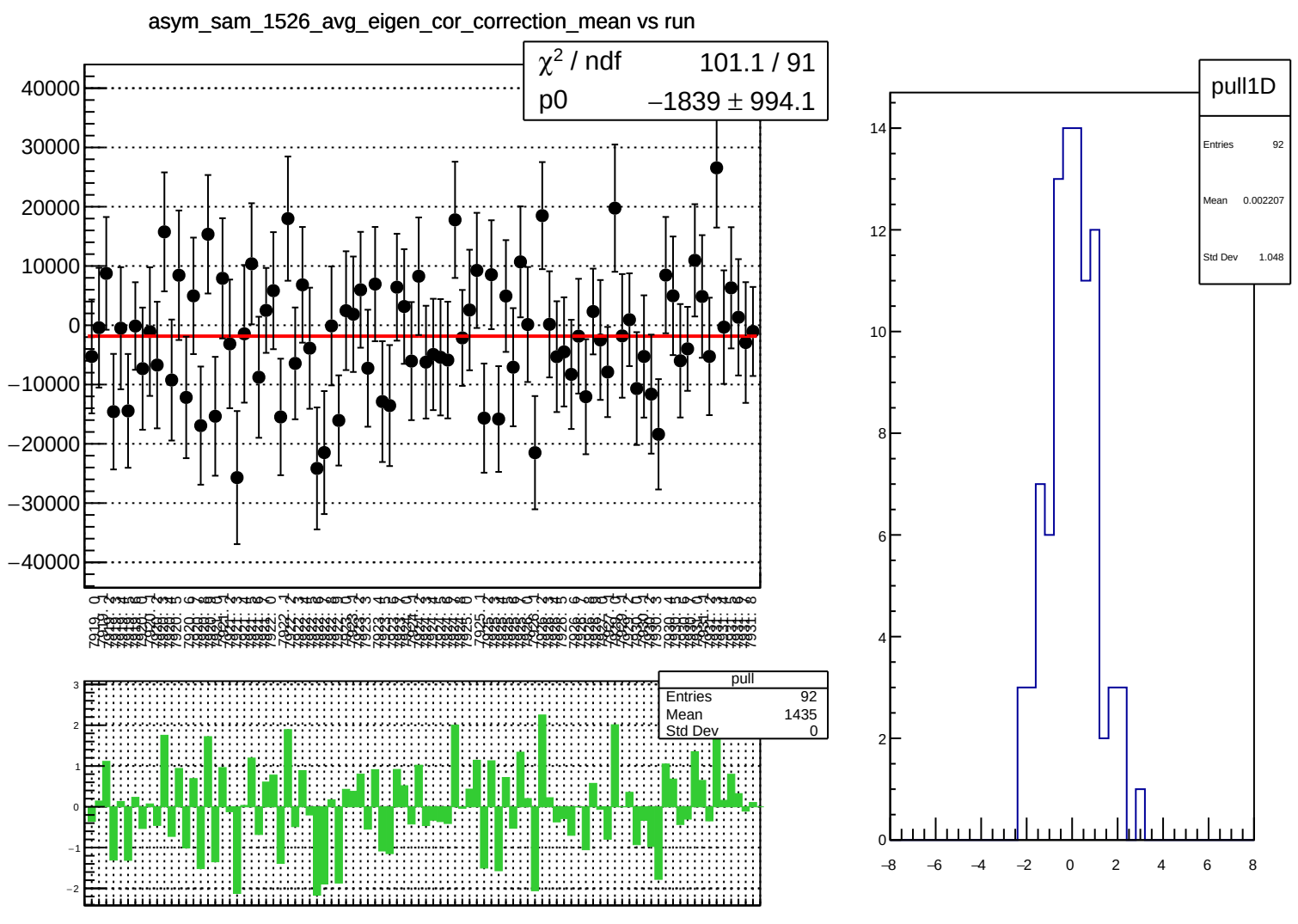

cor_asym_sam_1526_avg_rms vs run
χ^2 / ndf 1.072e+04 / 91
p0 135.8 ± 0.102
170
160
150
140
130
120
110

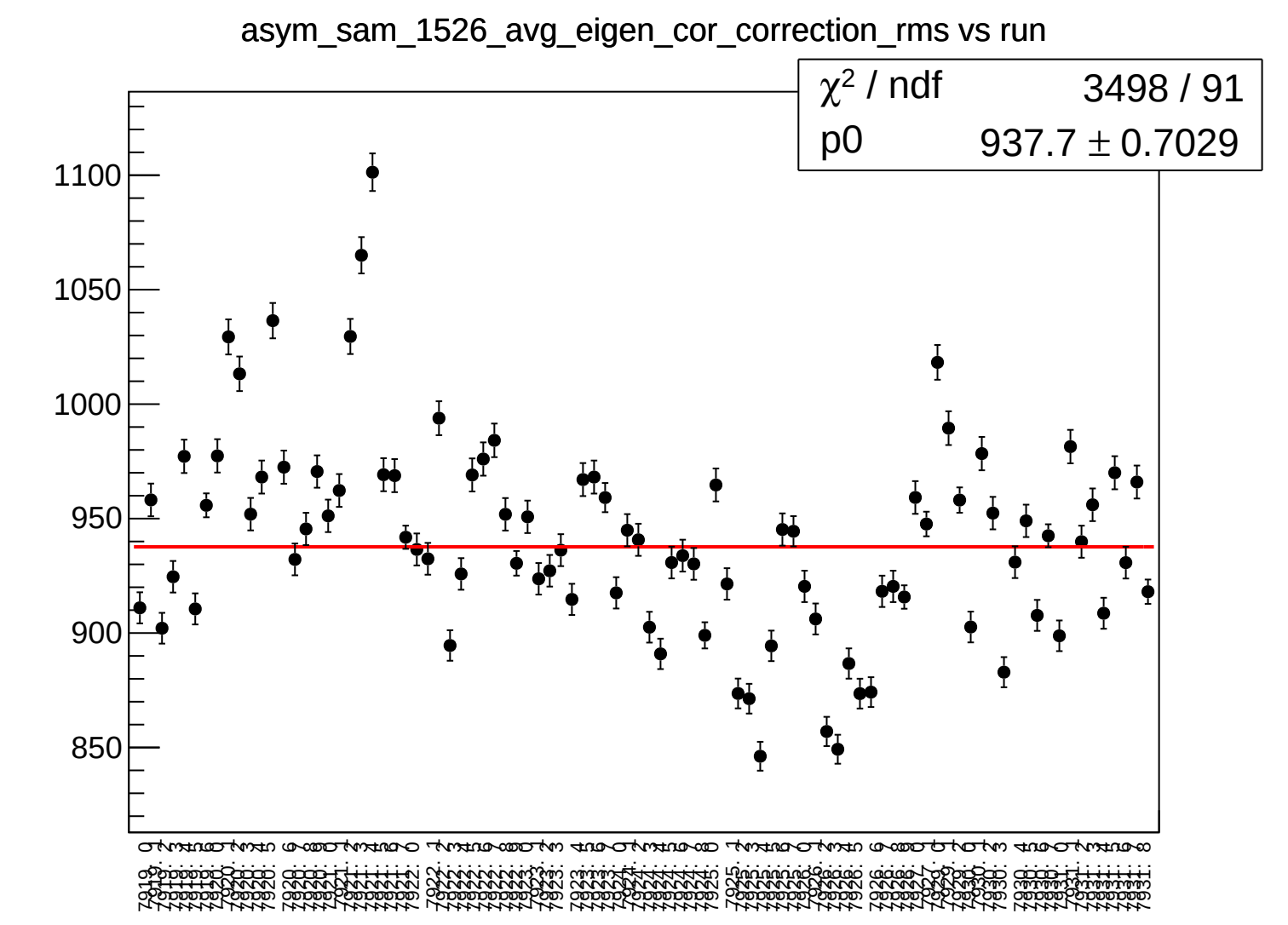

asym_sam_1526_avg_cor_correction_mean vs run
χ² / ndf 101.1 / 91
p0 −1839 ± 994.1
pull
Entries 92
Mean 1435
Std Dev 0
pull1D
Entries 92
Mean 0.002207
Std Dev 1.048

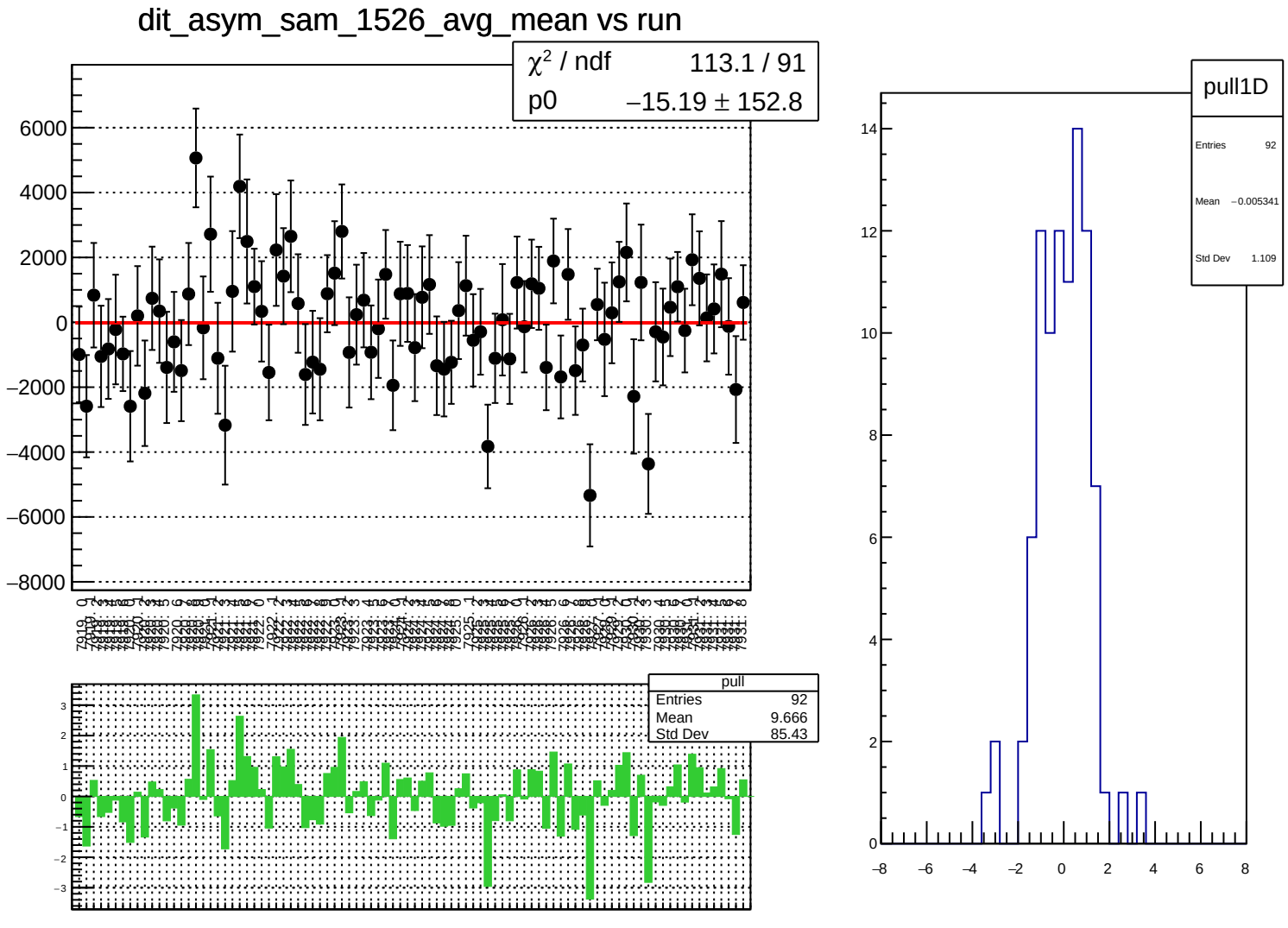

asym_sam_1526_avg_cor_correction_rms vs run
χ² / ndf 3498 / 91
p0 937.7 ± 0.7029
1100
1050
1000
950
900
850

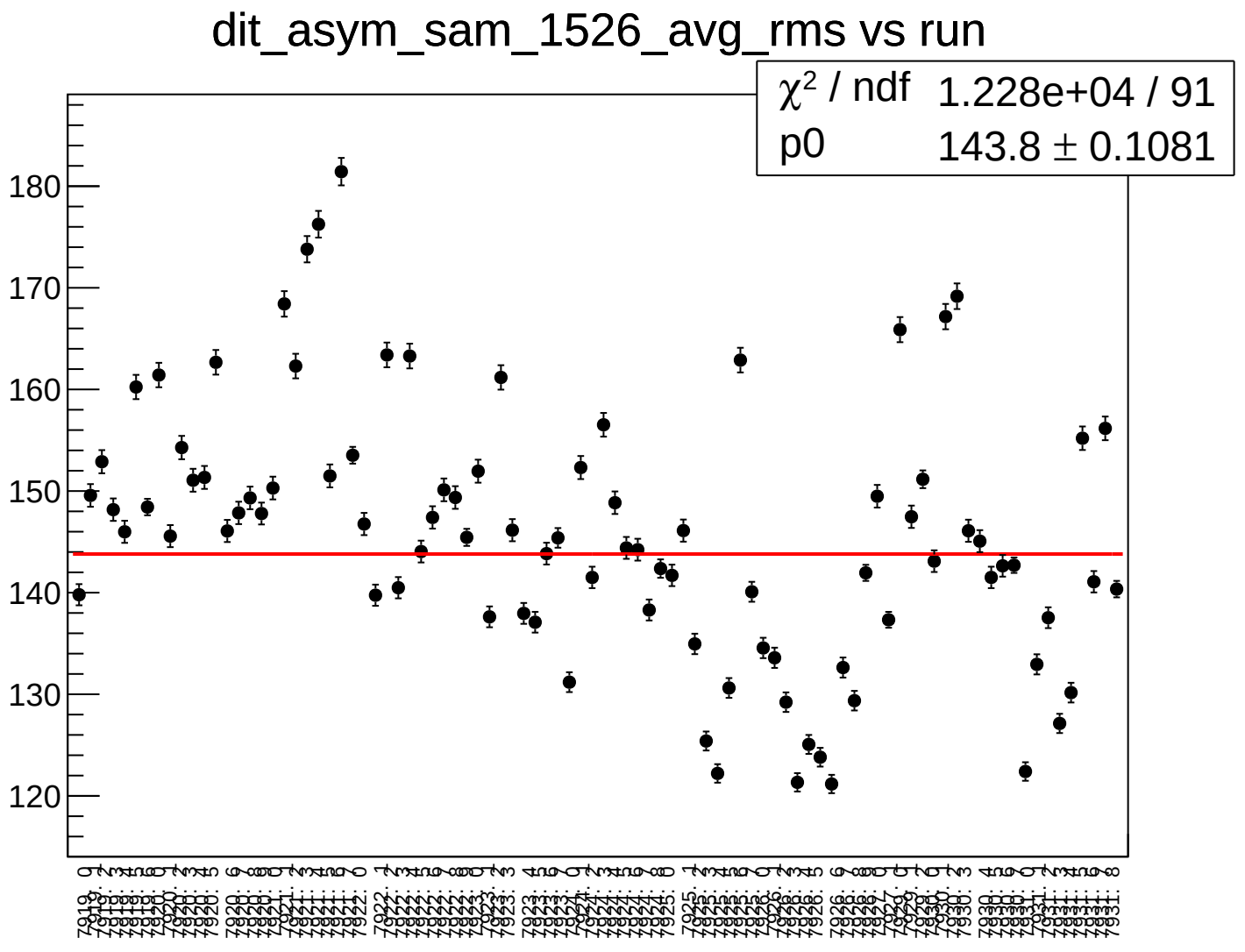

eigen_cor_asym_sam_1526_avg_mean vs run
χ² / ndf 108.7 / 91
p0 10.07 ± 144.2
pull
Entries 92
Mean 288.7
Std Dev 0
pull1D
Entries 92
Mean −0.0007963
Std Dev 1.087

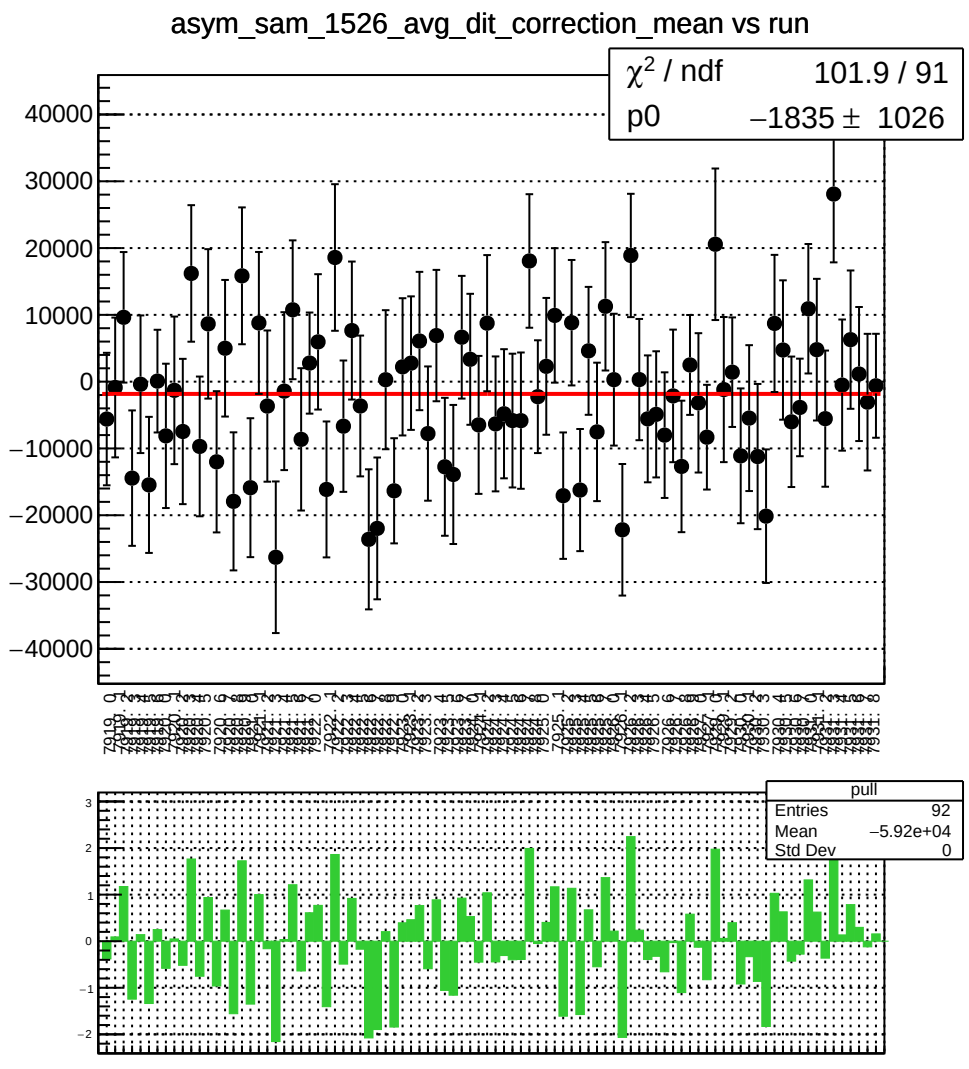

eigen_cor_asym_sam_1526_avg_rms vs run
χ² / ndf 1.072e+04 / 91
p0 135.8 ± 0.102
170
160
150
140
130
120
110

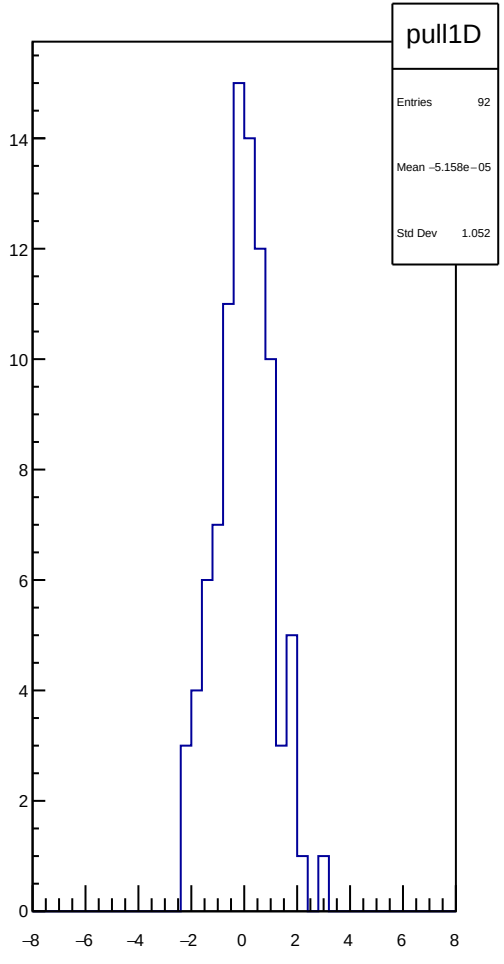

asym_sam_1526_avg_eigen_cor_correction_mean vs run
χ² / ndf 101.1 / 91
p0 −1839 ± 994.1
pull
Entries 92
Mean 1435
Std Dev 0
pull1D
Entries 92
Mean 0.002207
Std Dev 1.048

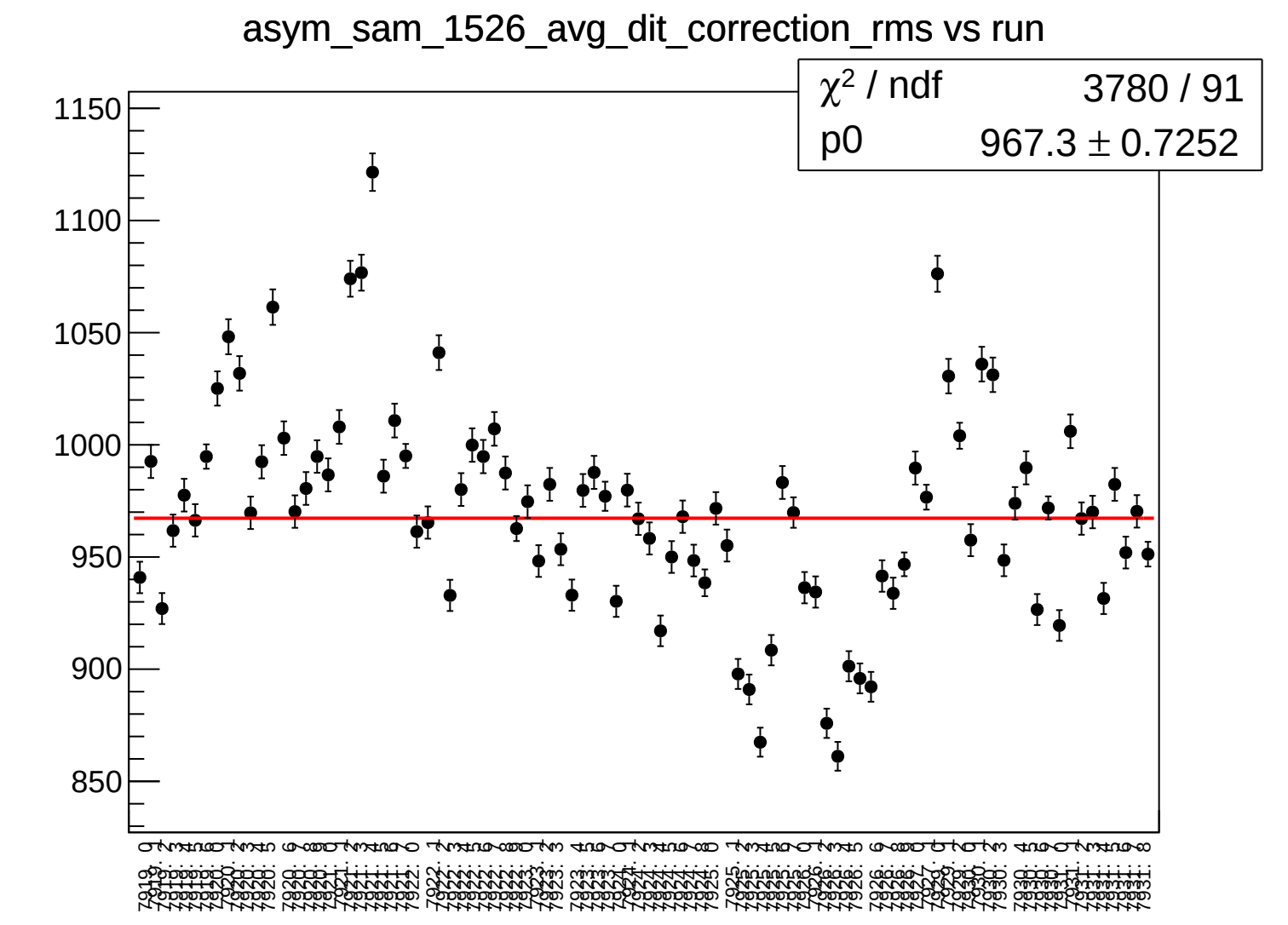

asym_sam_1526_avg_eigen_cor_correction_rms vs run
χ² / ndf 3498 / 91
p0 937.7 ± 0.7029
1100
1050
1000
950
900
850

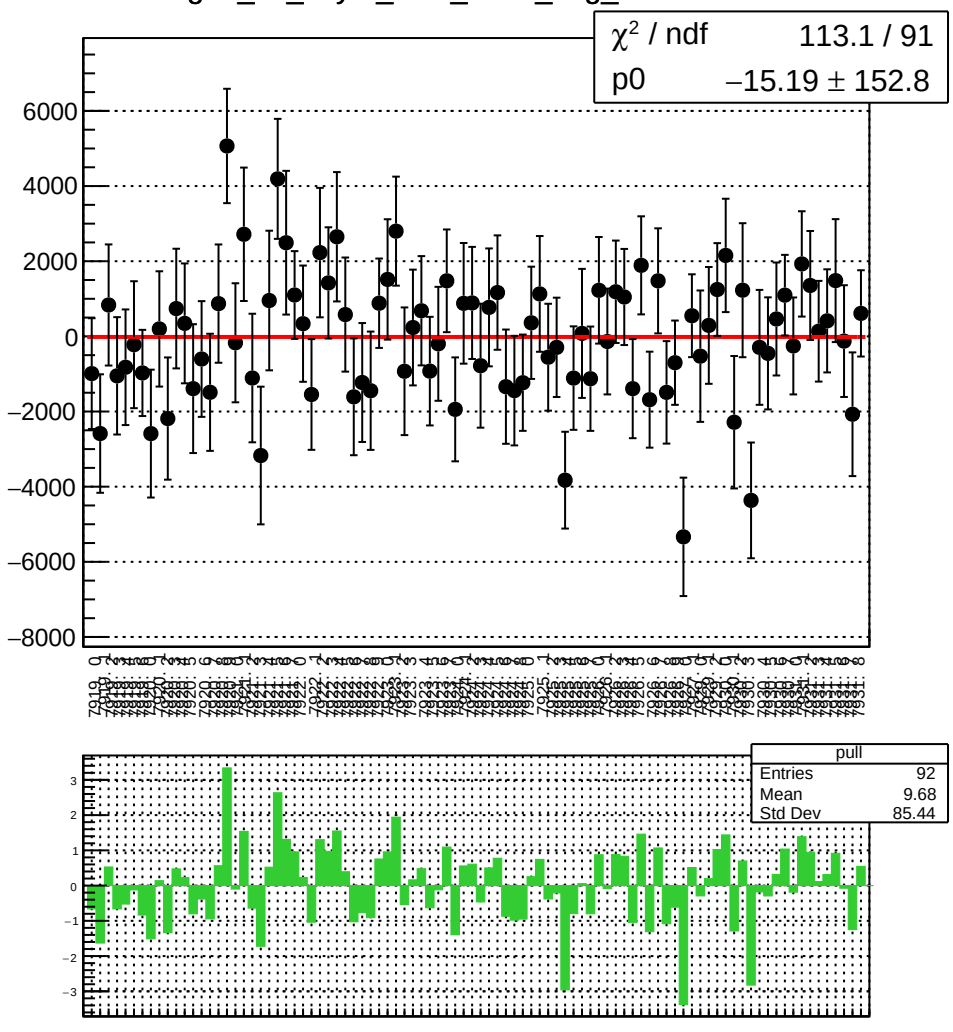

dit_asym_sam_1526_avg_mean vs run
χ² / ndf 113.1 / 91
p0 −15.19 ± 152.8
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 92
Mean 9.666
Std Dev 85.43
3
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.005341
Std Dev 1.109
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

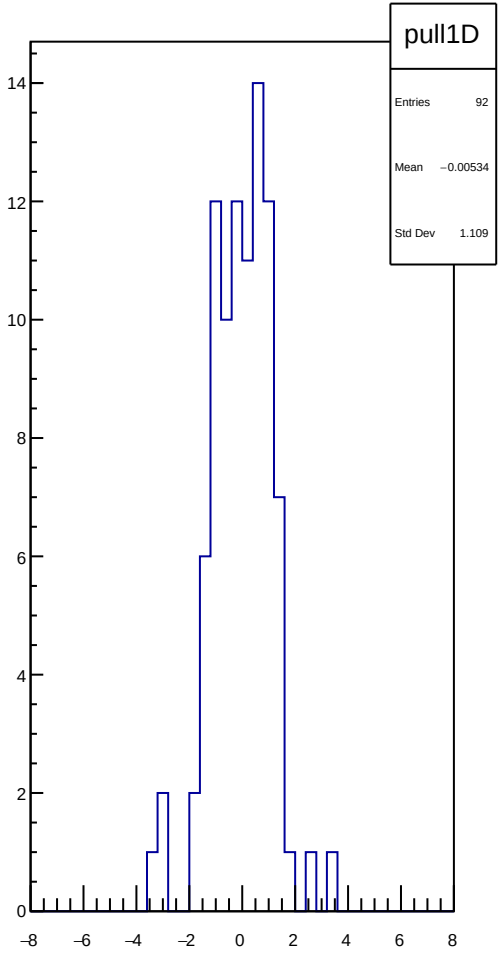

dit_asym_sam_1526_avg_rms vs run
χ² / ndf 1.228e+04 / 91
p0 143.8 ± 0.1081
180
170
160
150
140
130
120

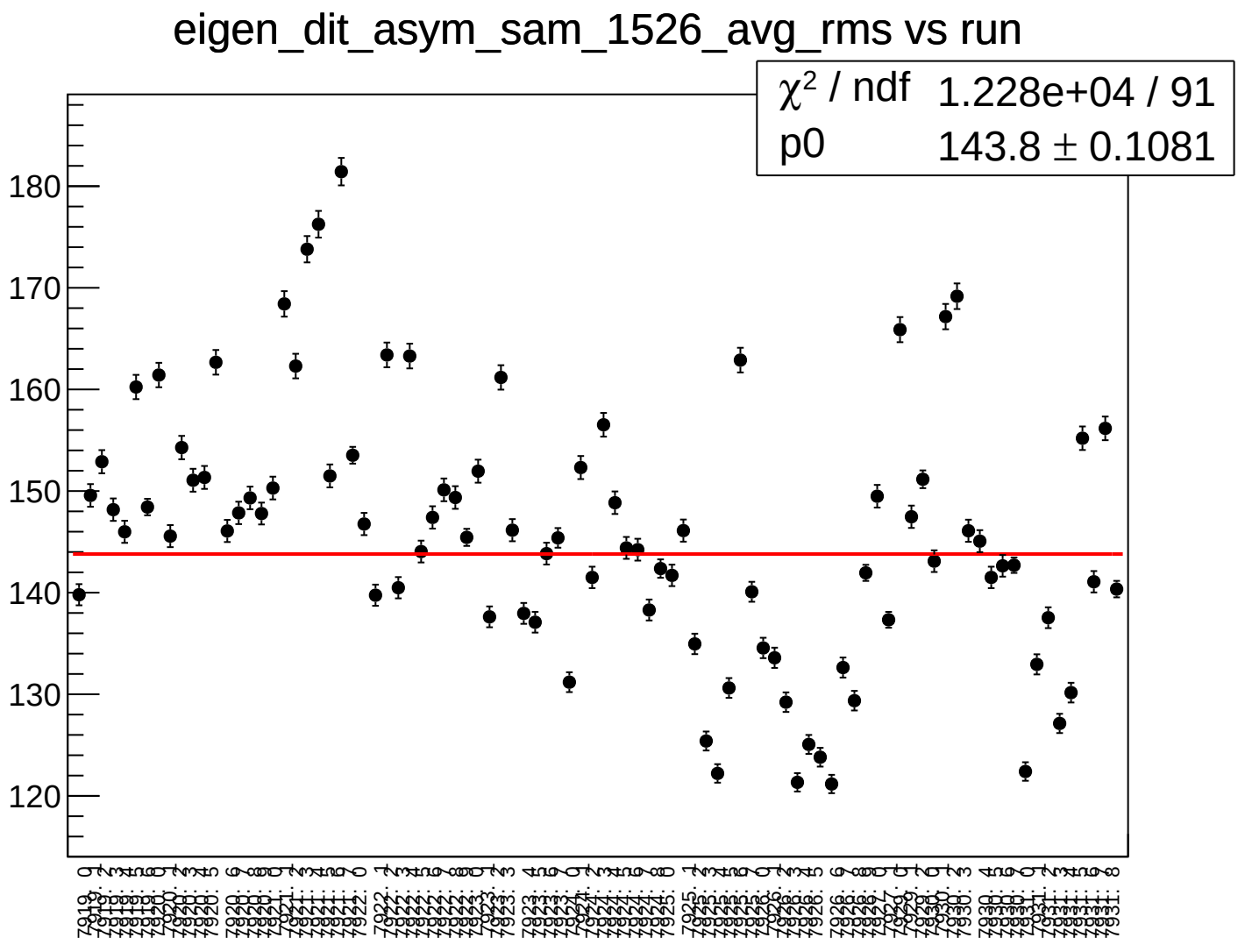

asym_sam_1526_avg_dit_correction_mean vs run
χ² / ndf 101.9 / 91
p0 −1835 ± 1026
pull
Entries 92
Mean −5.92e+04
Std Dev 0

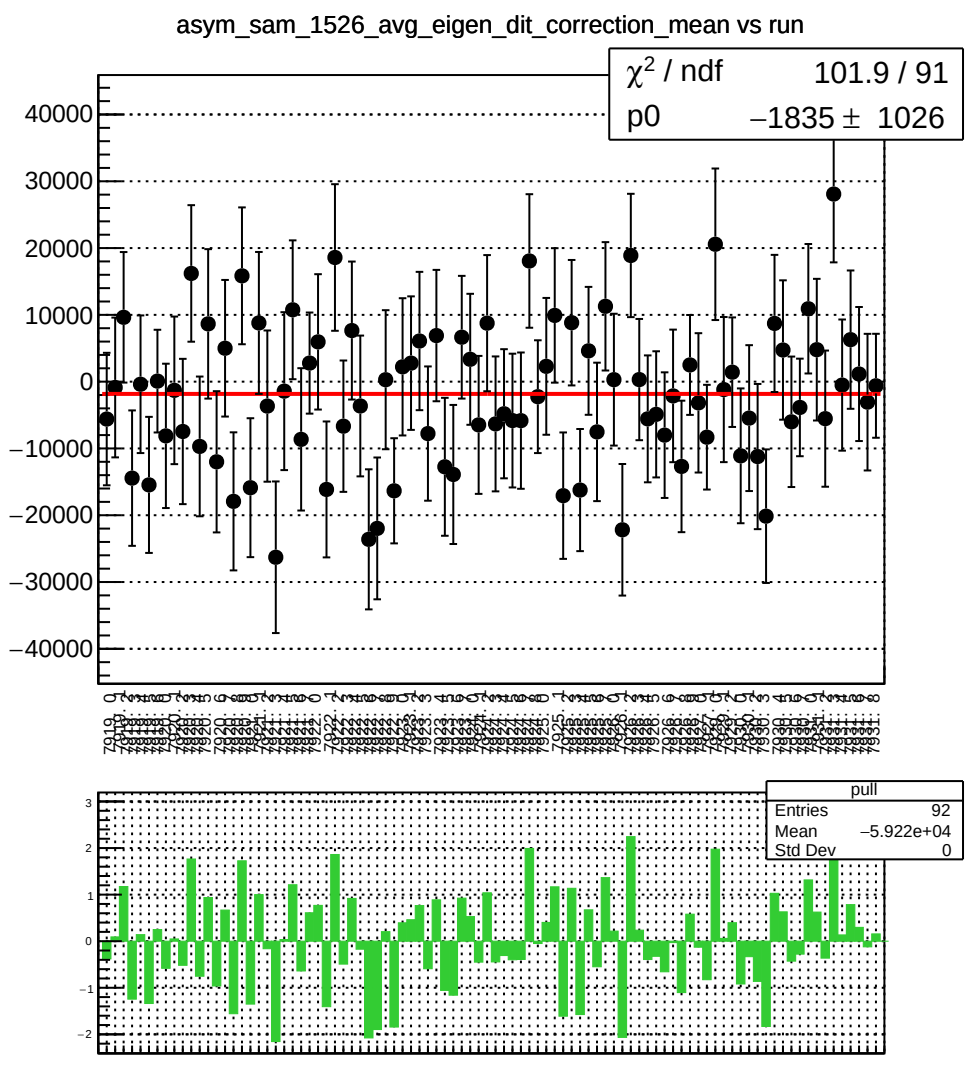

pull1D
Entries 92
Mean −5.158e−05
Std Dev 1.052

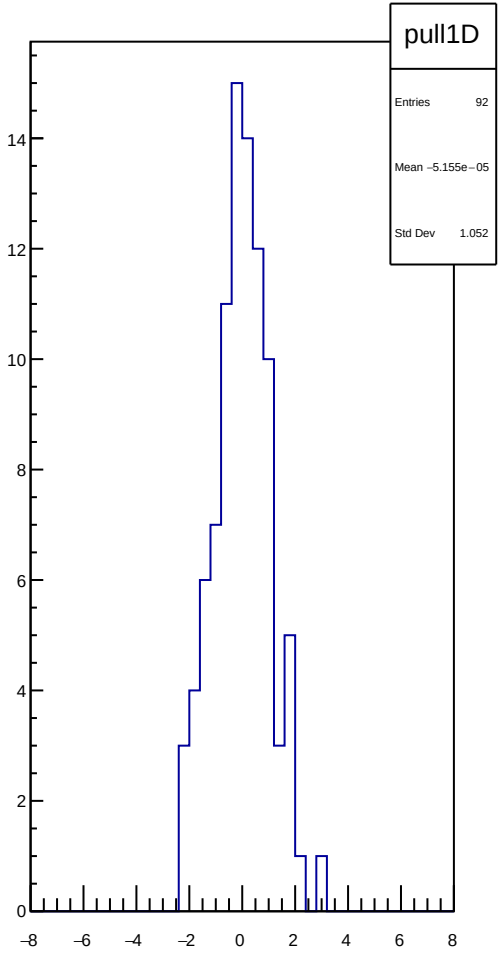

asym_sam_1526_avg_dit_correction_rms vs run
χ² / ndf 3780 / 91
p0 967.3 ± 0.7252
1150
1100
1050
1000
950
900
850

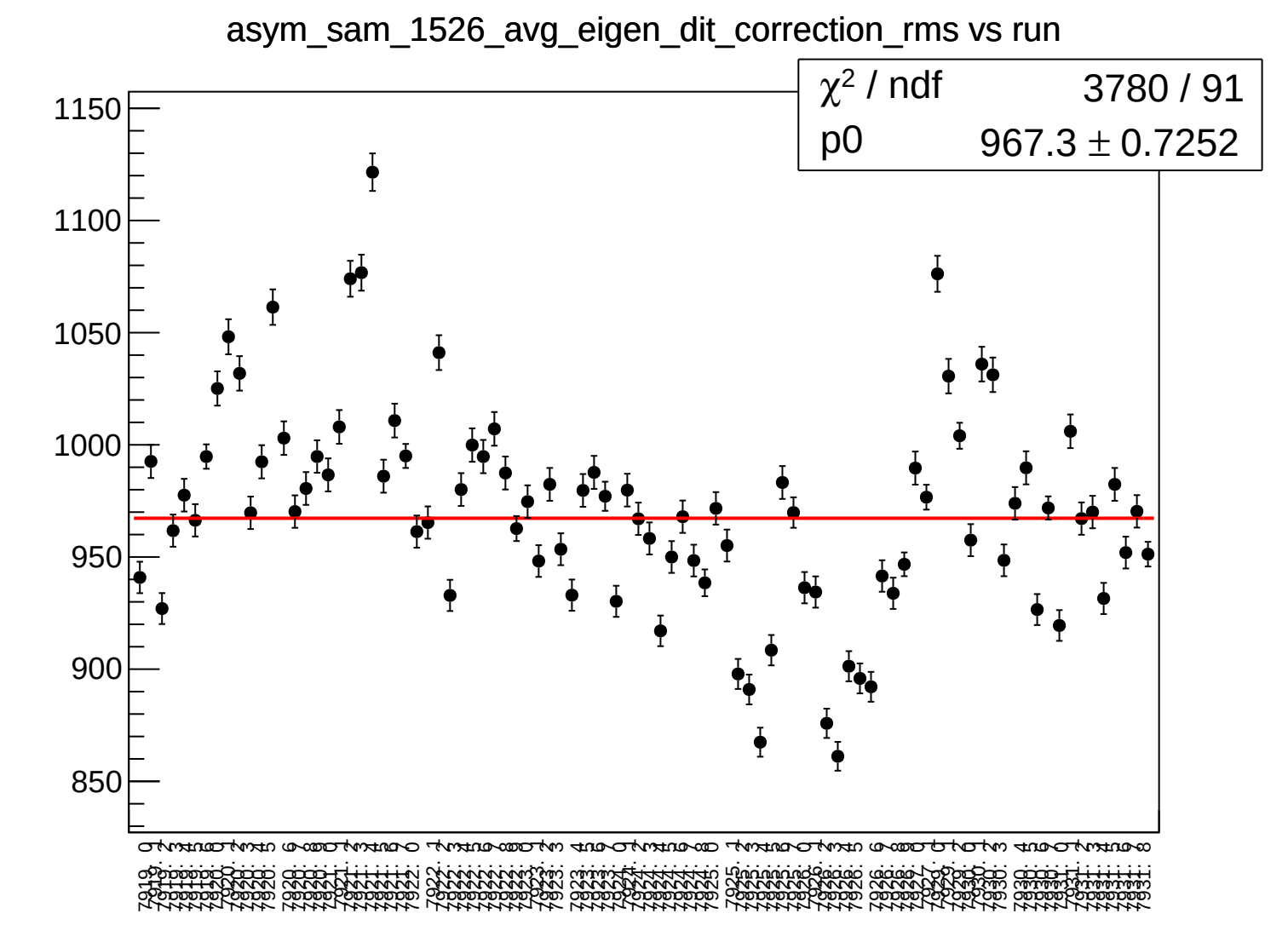

eigen_dit_asym_sam_1526_avg_mean vs run
χ² / ndf 113.1 / 91
p0 −15.19 ± 152.8
pull
Entries 92
Mean 9.68
Std Dev 85.44

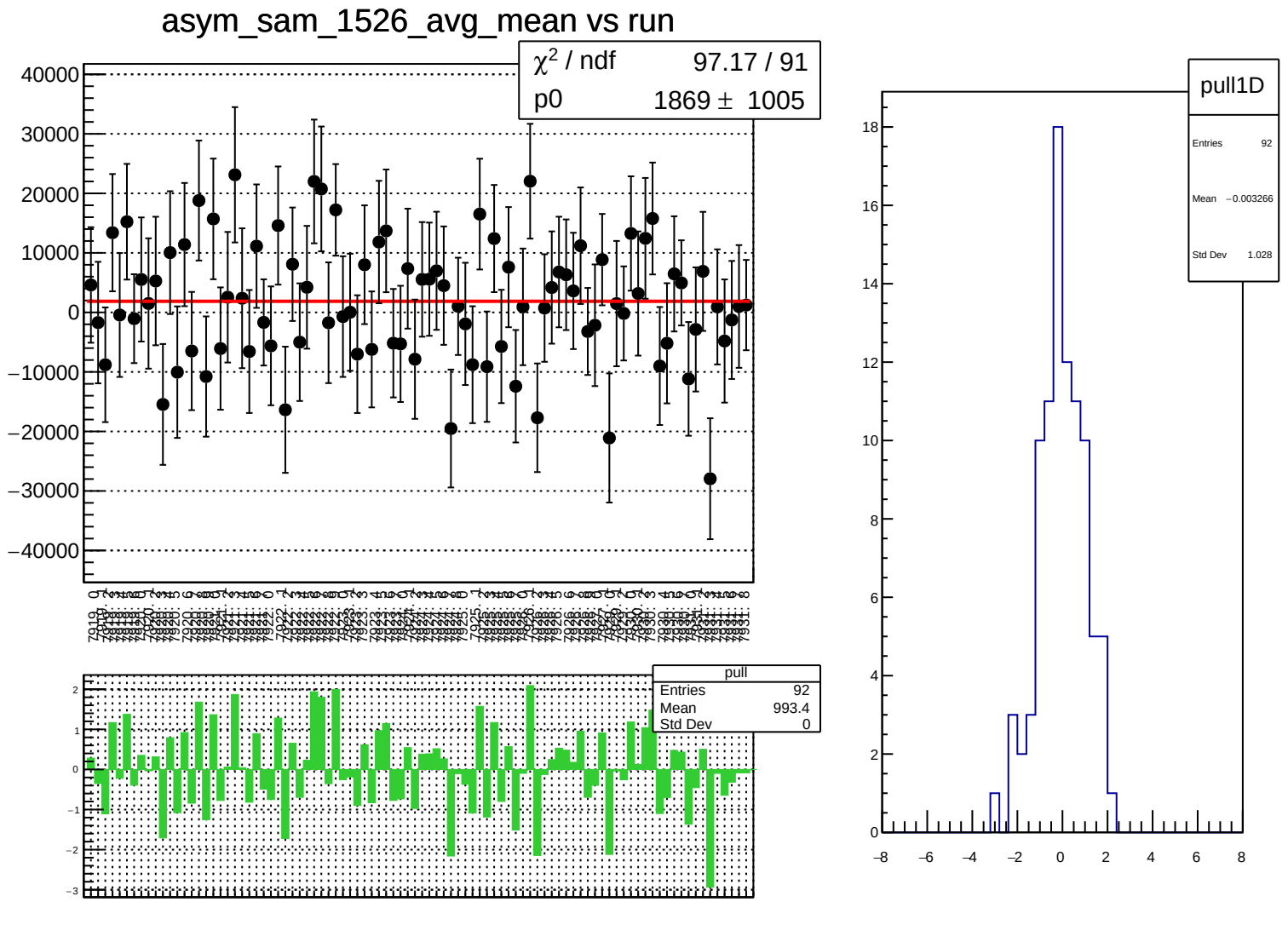

pull1D
Entries 92
Mean −0.00534
Std Dev 1.109

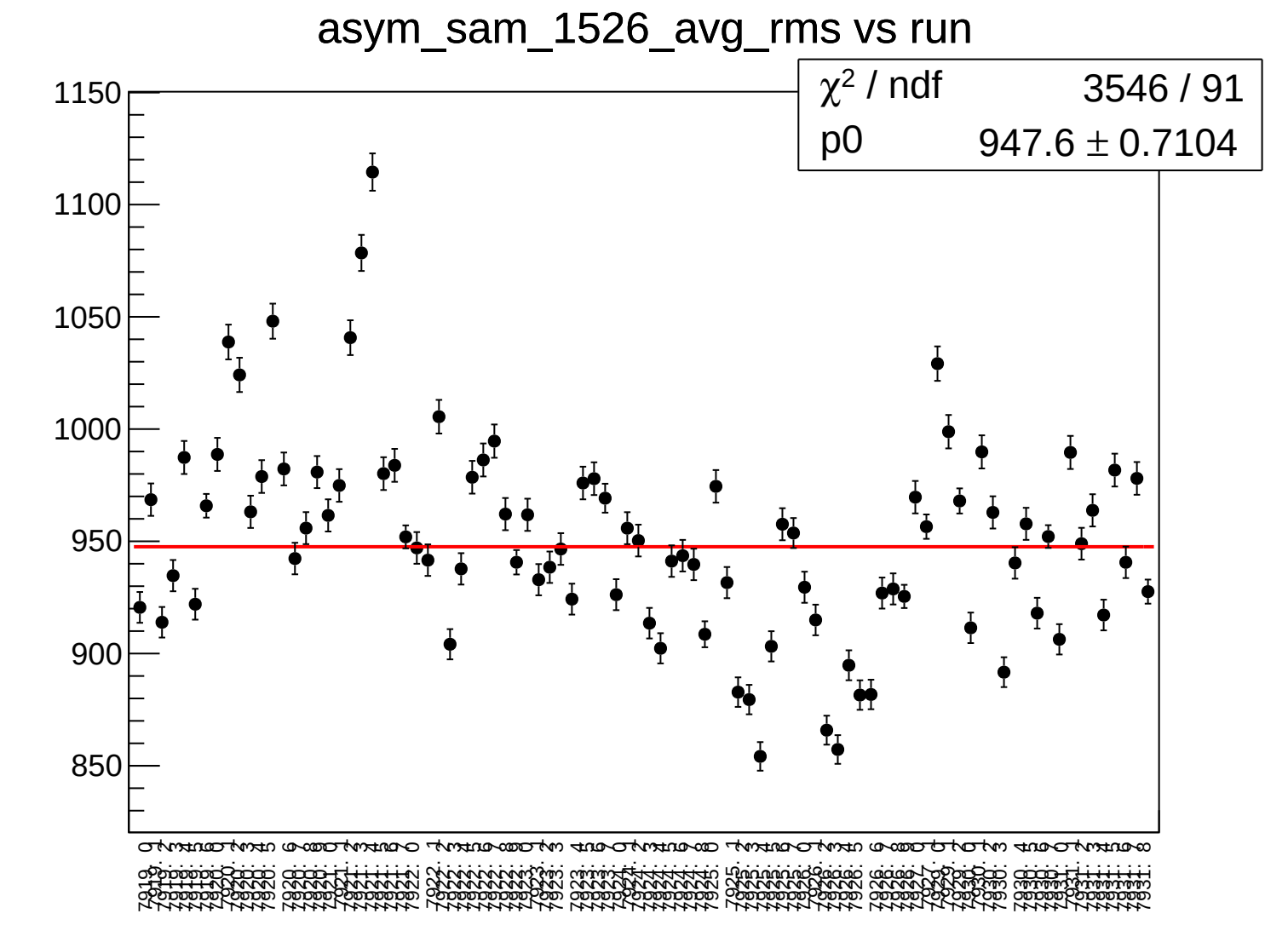

eigen_dit_asym_sam_1526_avg_rms vs run
χ² / ndf 1.228e+04 / 91
p0 143.8 ± 0.1081
180
170
160
150
140
130
120

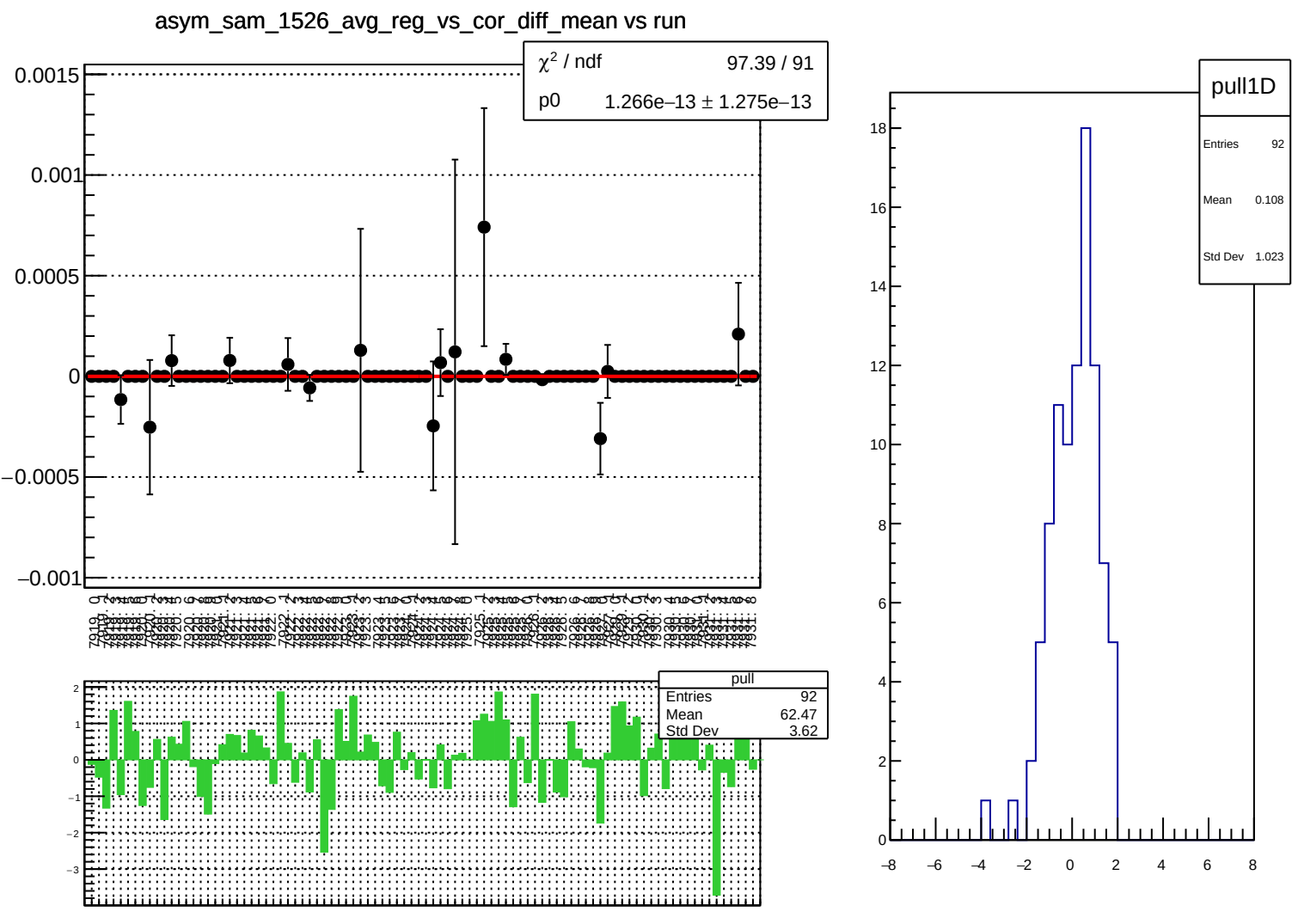

asym_sam_1526_avg_eigen_dit_correction_mean vs run
χ² / ndf 101.9 / 91
p0 −1835 ± 1026
pull
Entries 92
Mean −5.922e+04
Std Dev 0

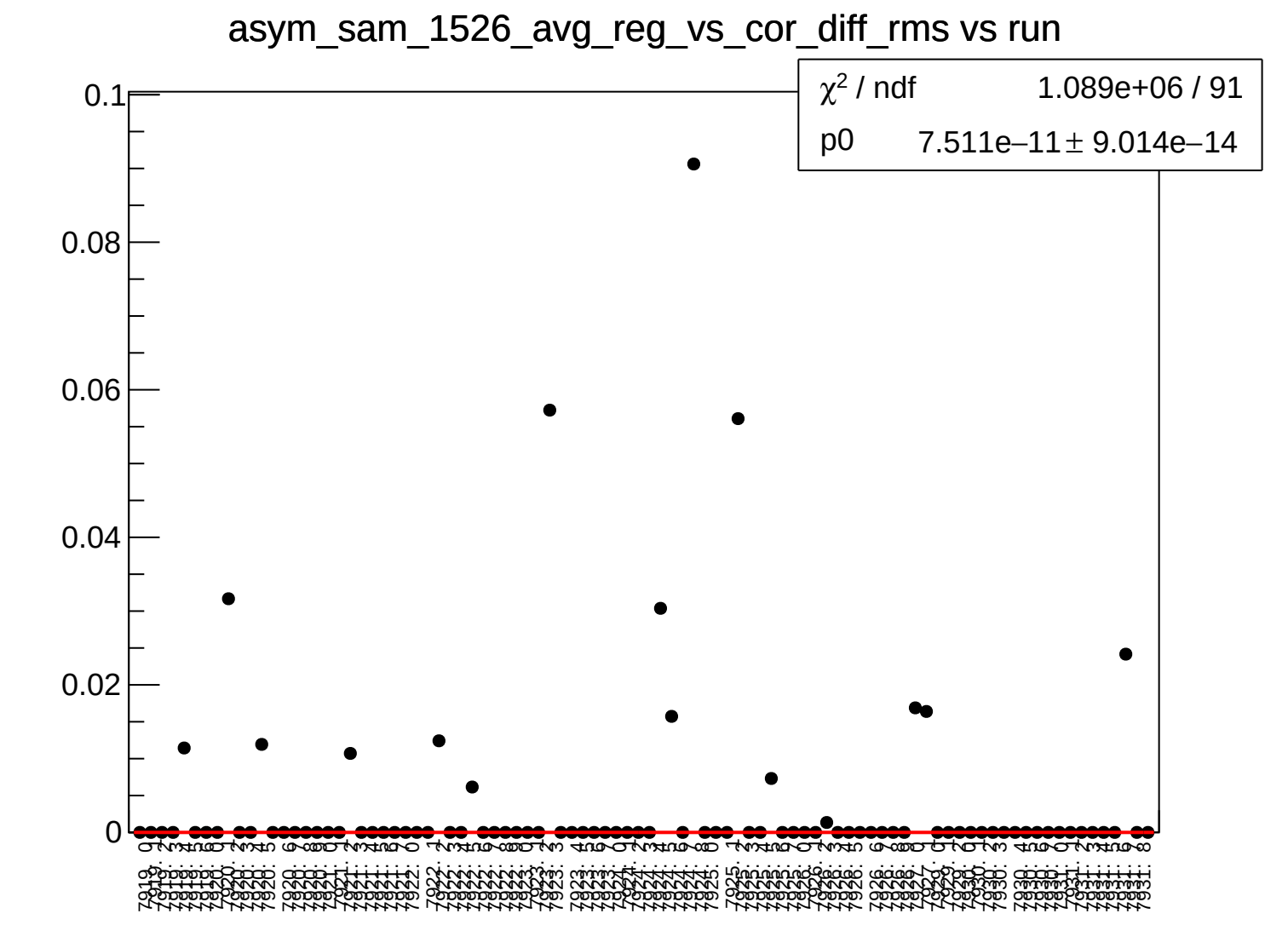

pull1D
Entries 92
Mean −5.155e−05
Std Dev 1.052

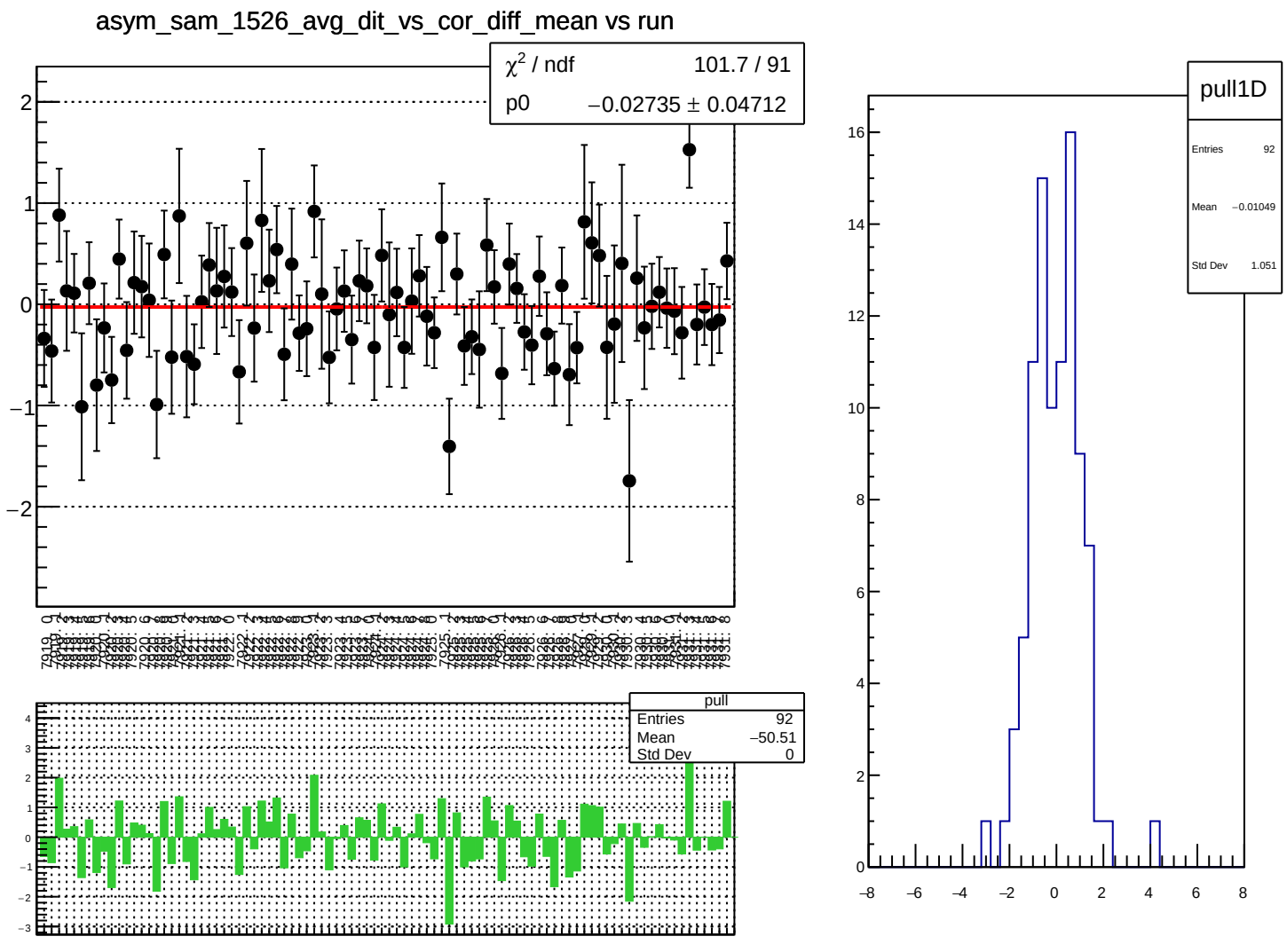

asym_sam_1526_avg_eigen_dit_correction_rms vs run
χ² / ndf 3780 / 91
p0 967.3 ± 0.7252
1150
1100
1050
1000
950
900
850

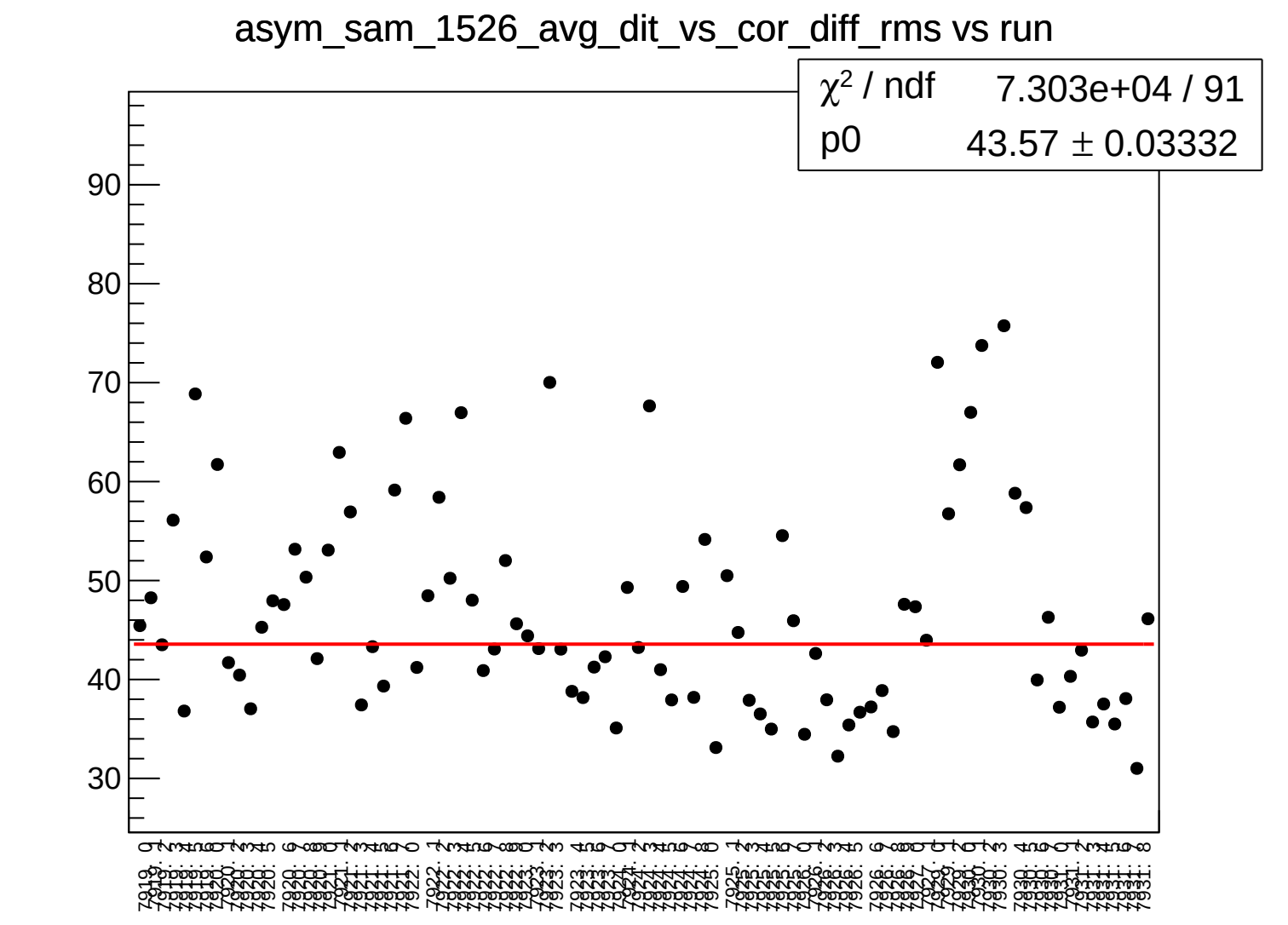

asym_sam_1526_avg_mean vs run
χ² / ndf 97.17 / 91
p0 1869 ± 1005
pull
Entries 92
Mean 993.4
Std Dev 0
pull1D
Entries 92
Mean −0.003266
Std Dev 1.028

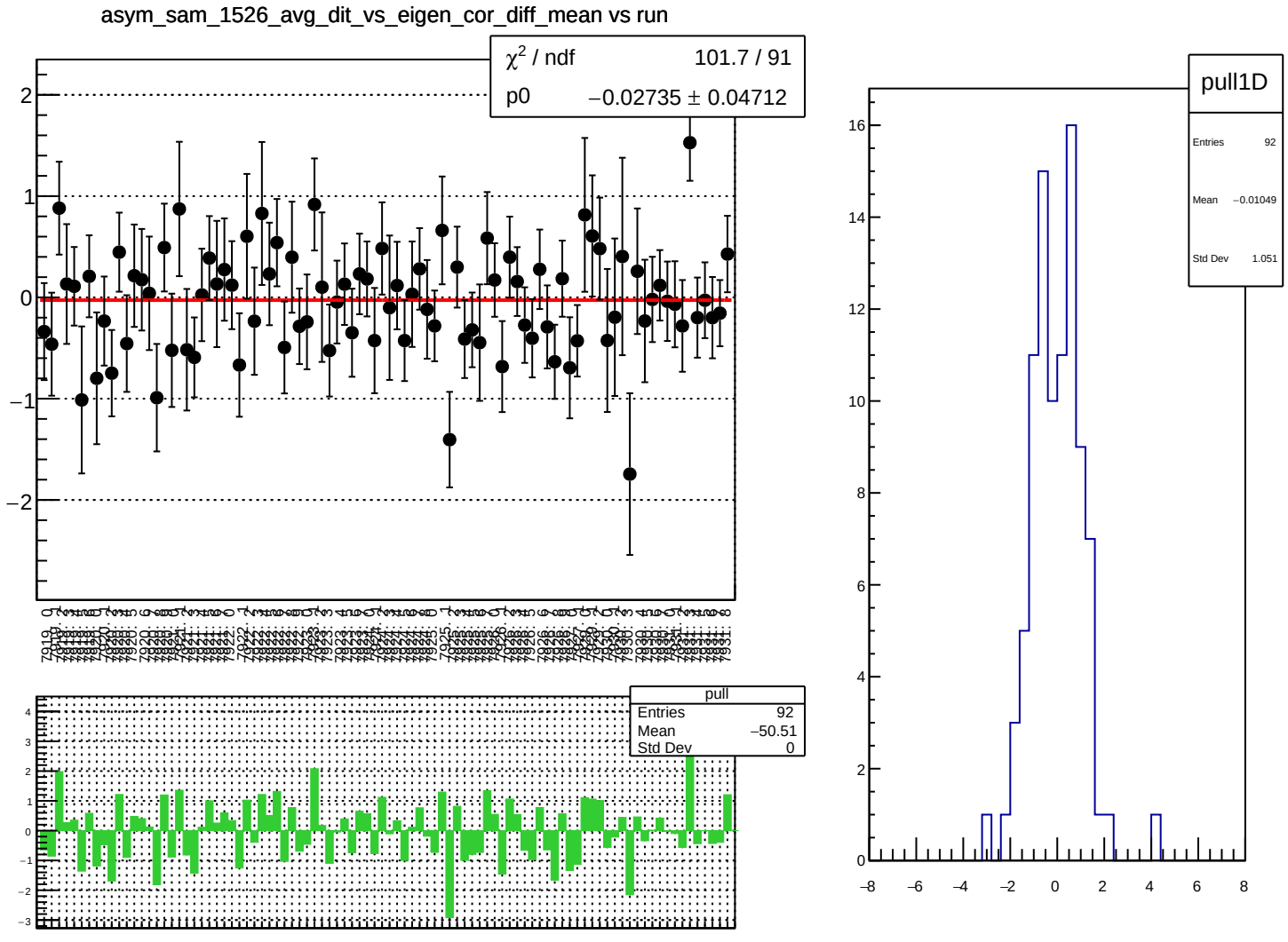

asym_sam_1526_avg_rms vs run
χ^2 / ndf 3546 / 91
p0 947.6 ± 0.7104
1150
1100
1050
1000
950
900
850

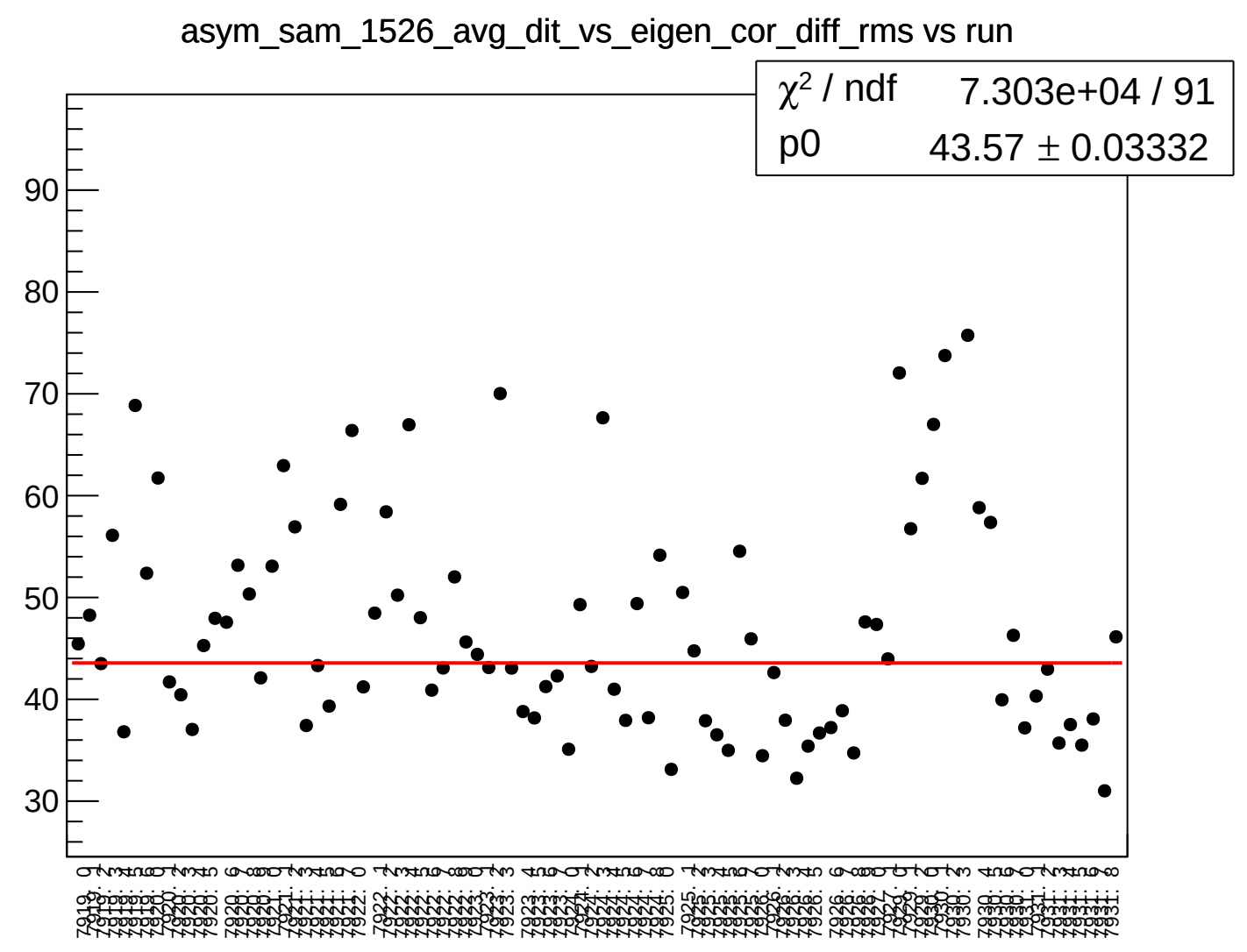

asym_sam_1526_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 97.39 / 91
p0 1.266e−13 ± 1.275e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 92
Mean 62.47
Std Dev 3.62
pull1D
Entries 92
Mean 0.108
Std Dev 1.023

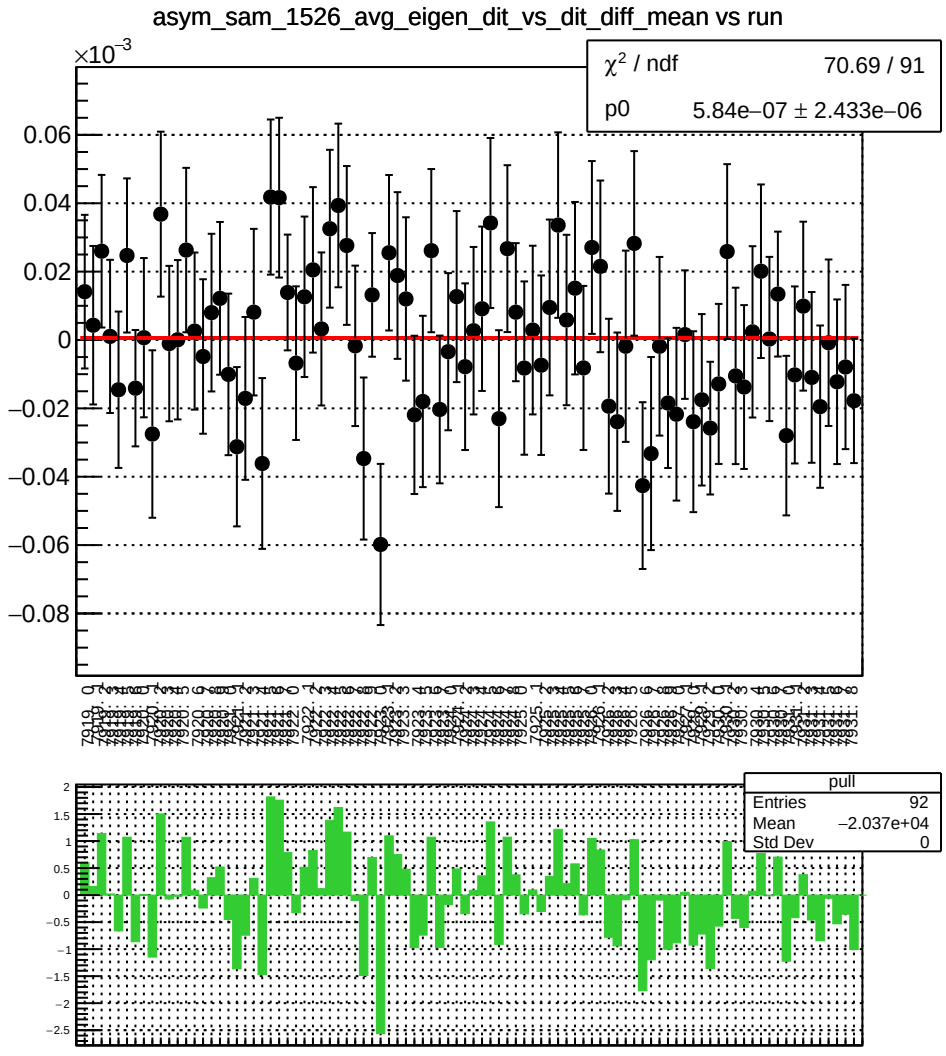

asym_sam_1526_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.089e+06 / 91
p0 7.511e−11 ± 9.014e−14
0.1
0.08
0.06
0.04
0.02
0

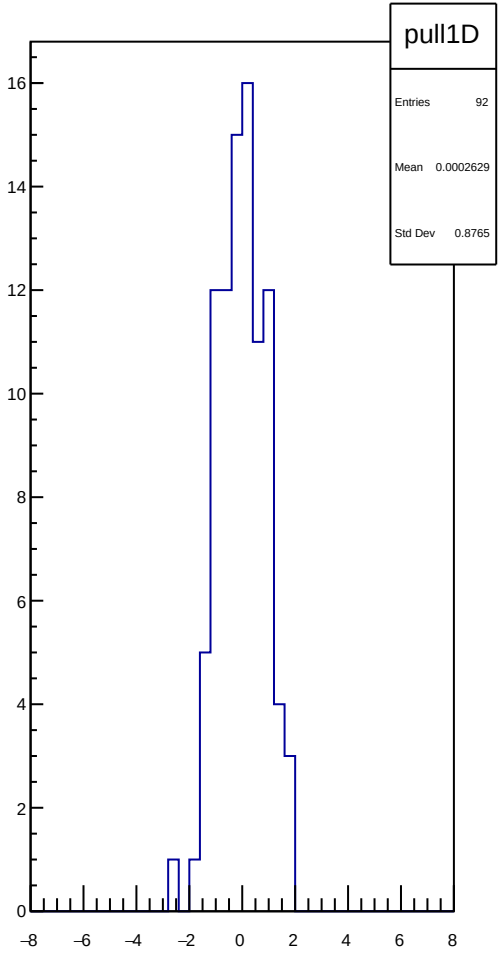

asym_sam_1526_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 101.7 / 91
p0 −0.02735 ± 0.04712
pull
Entries 92
Mean −50.51
Std Dev 0
pull1D
Entries 92
Mean −0.01049
Std Dev 1.051

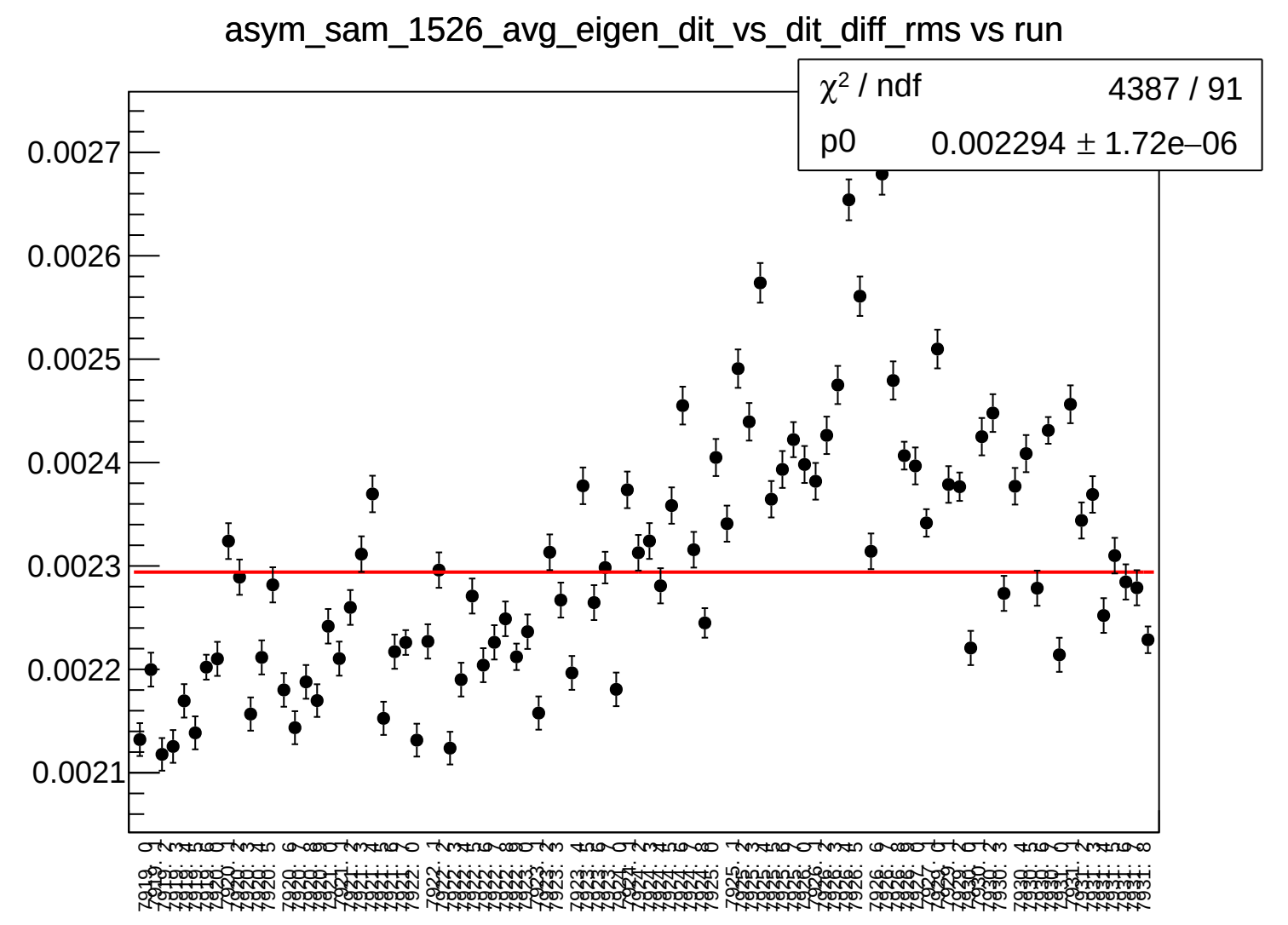

asym_sam_1526_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.303e+04 / 91
p0 43.57 ± 0.03332
90
80
70
60
50
40
30

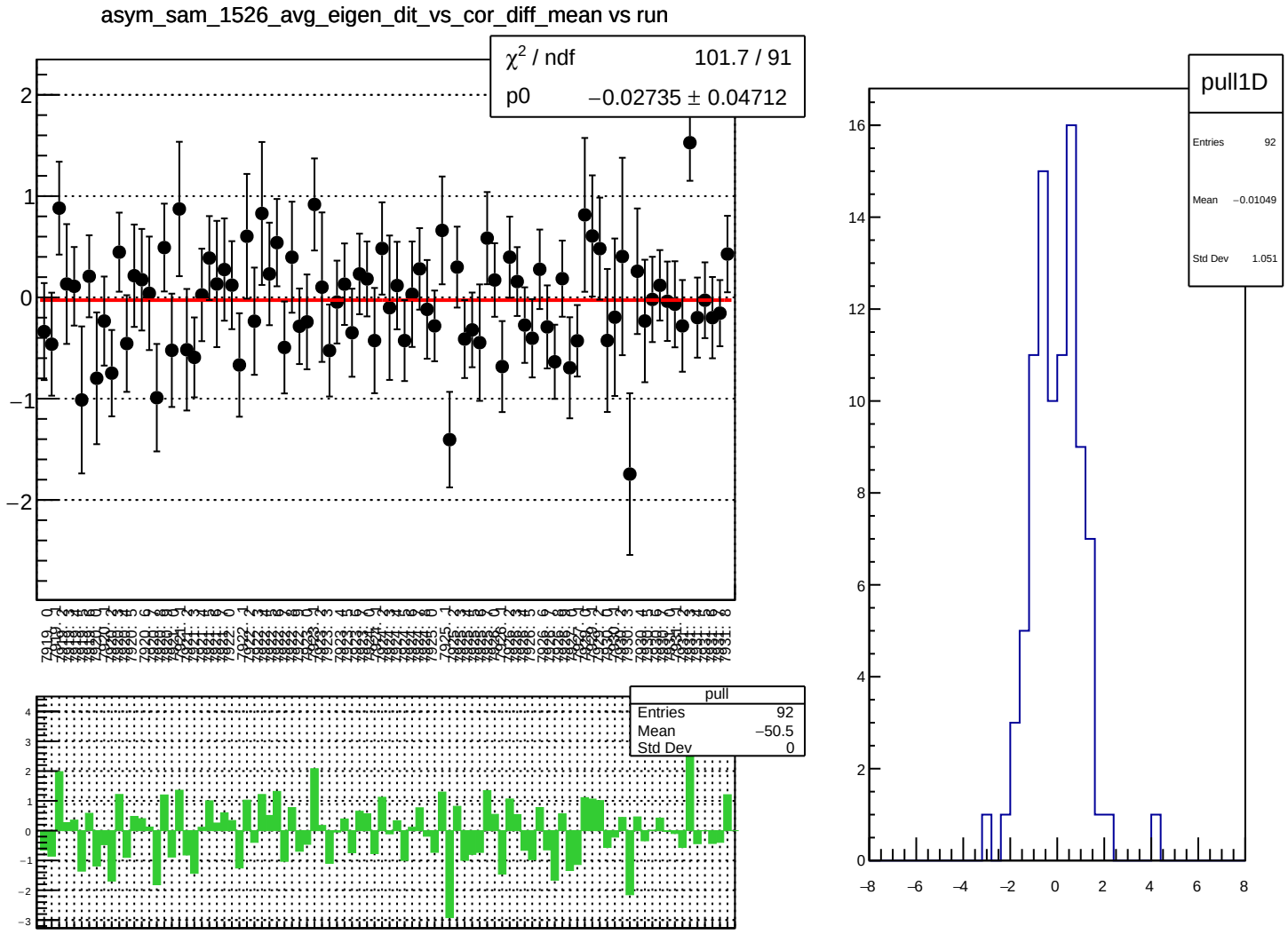

asym_sam_1526_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.7 / 91
p0 −0.02735 ± 0.04712
pull
Entries 92
Mean −50.51
Std Dev 0
pull1D
Entries 92
Mean −0.01049
Std Dev 1.051

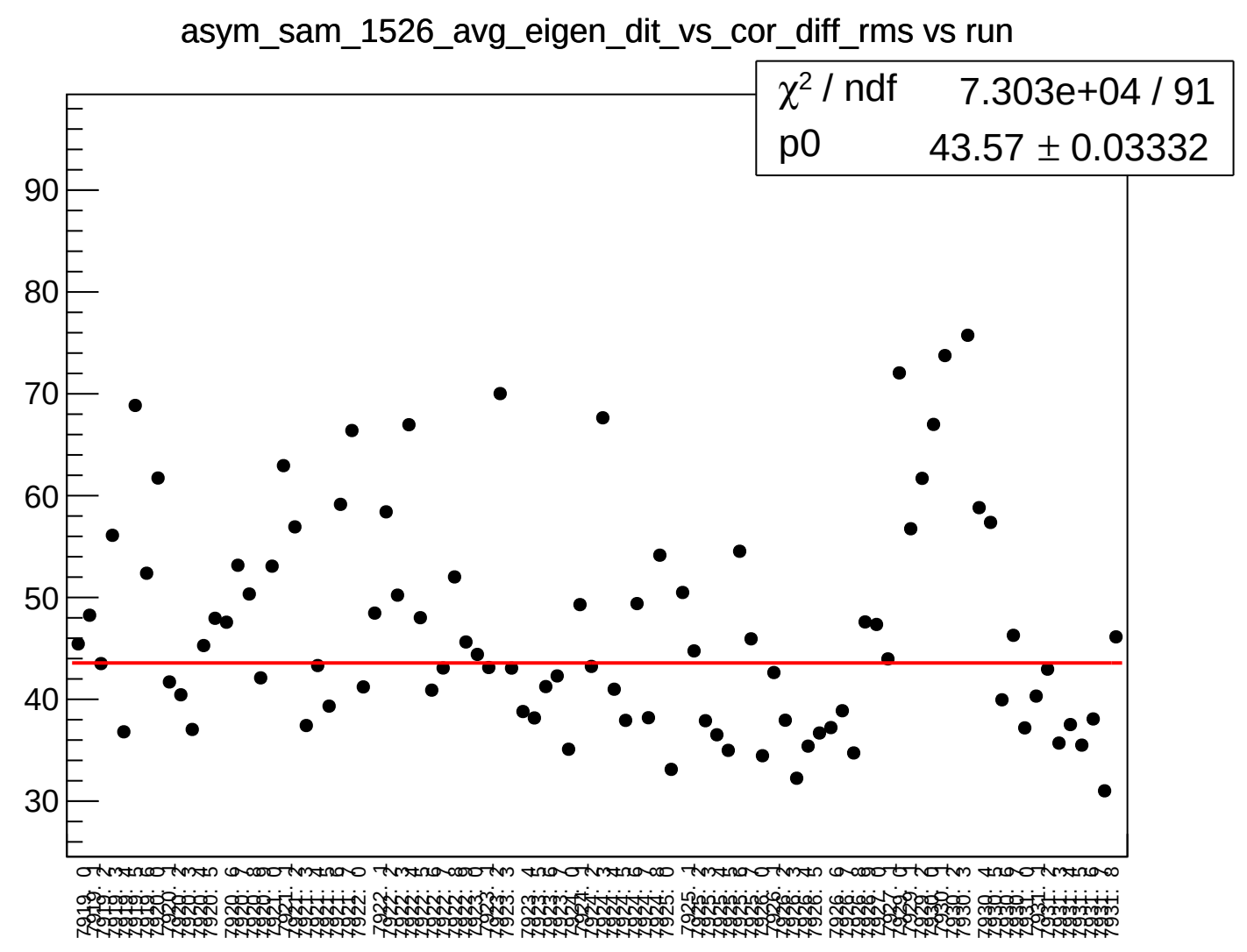

asym_sam_1526_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.303e+04 / 91
p0 43.57 ± 0.03332
90
80
70
60
50
40
30

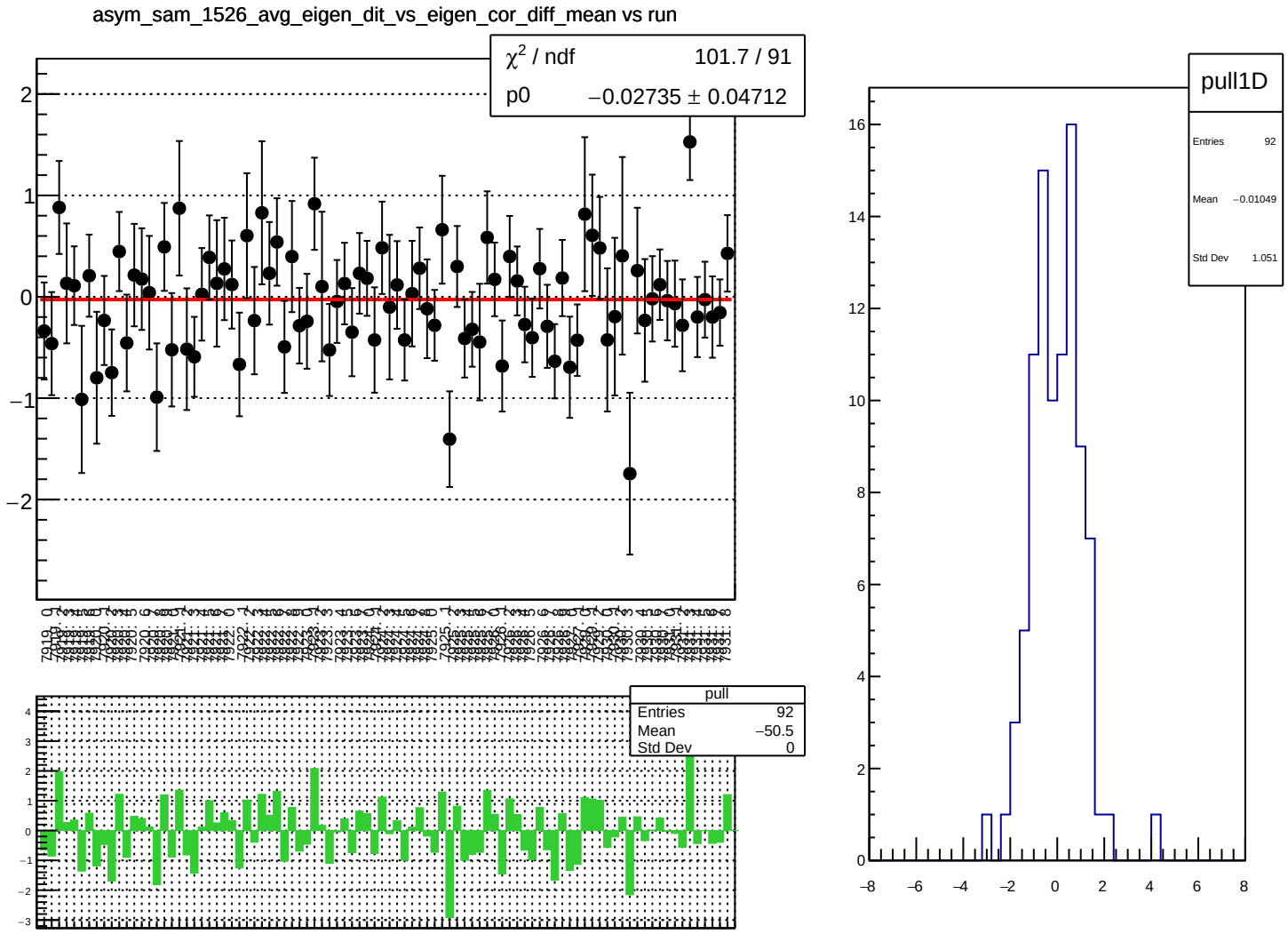

asym_sam_1526_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 70.69 / 91
p0 5.84e−07 ± 2.433e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 92
Mean −2.037e+04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

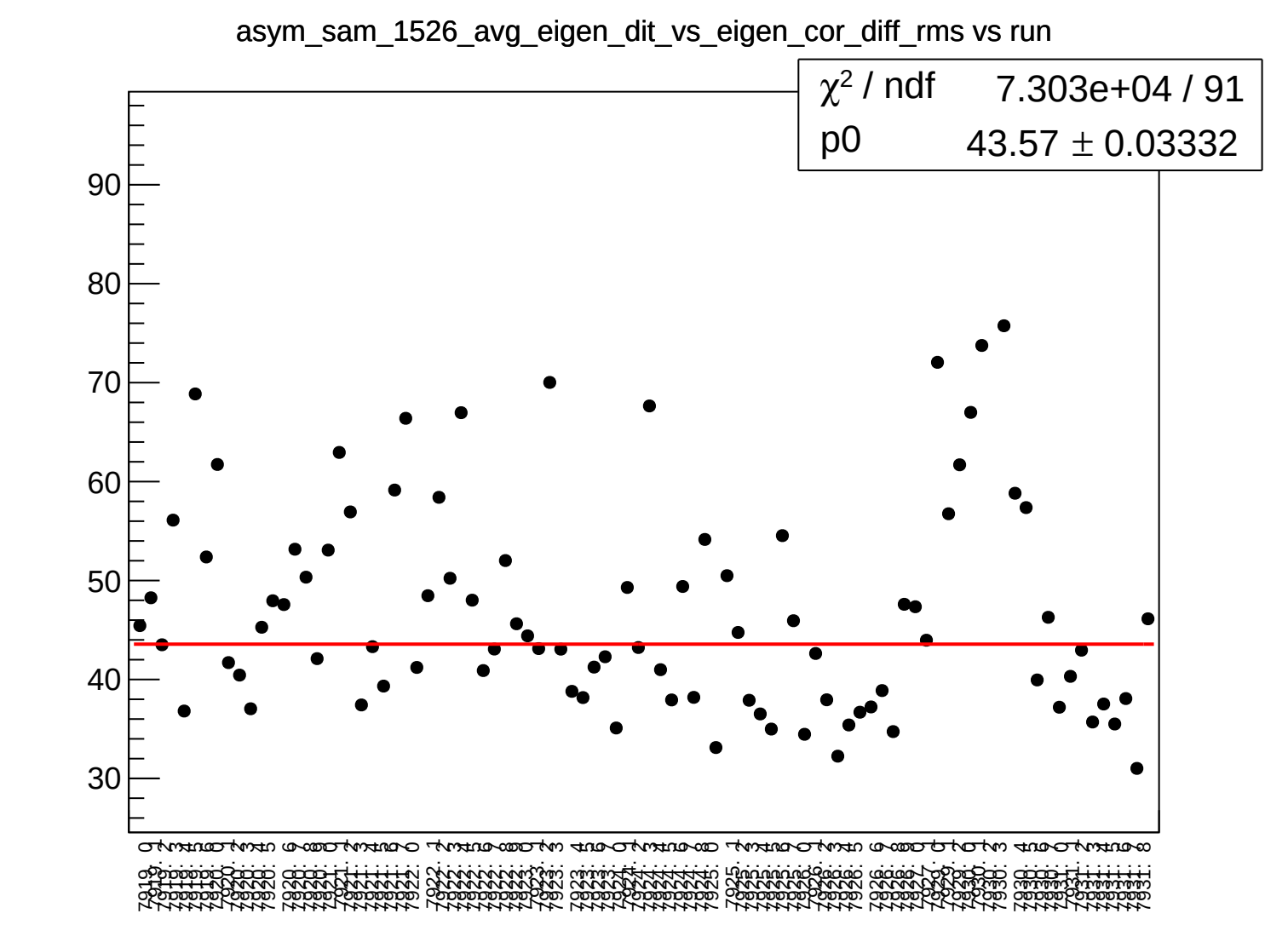

pull1D
Entries 92
Mean 0.0002629
Std Dev 0.8765
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

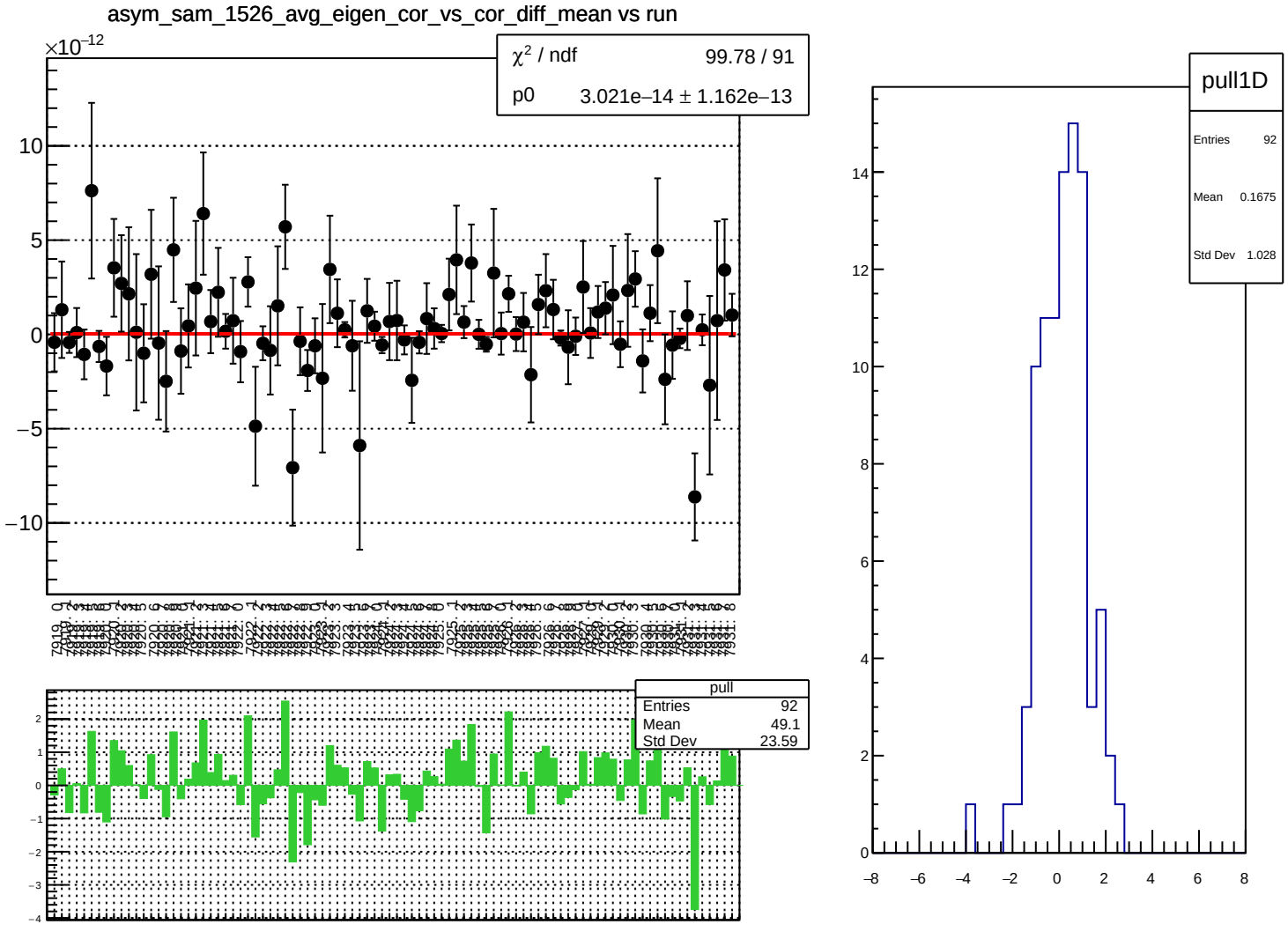

asym_sam_1526_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4387 / 91
p0 0.002294 ± 1.72e–06
0.0027
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021

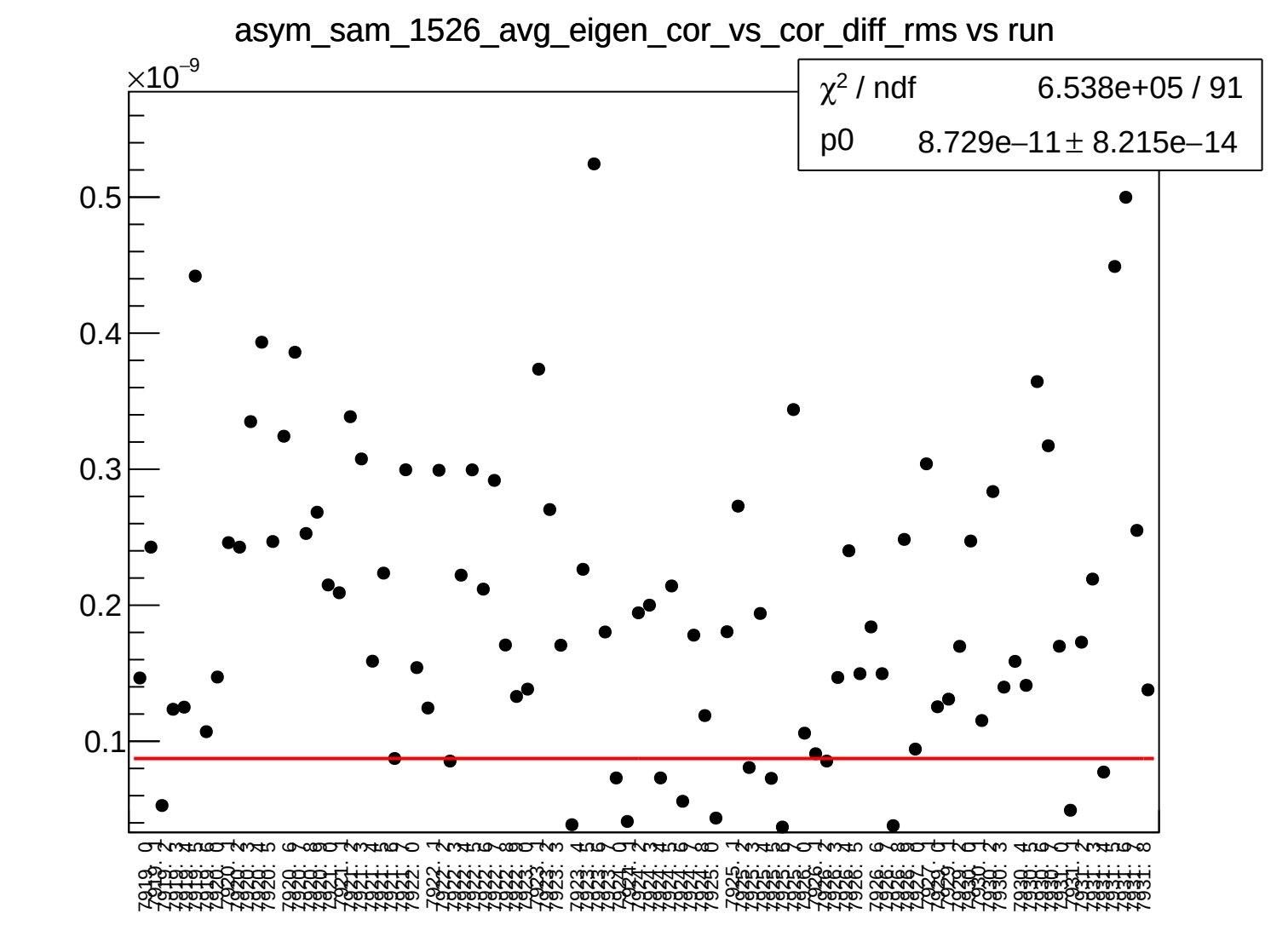

asym_sam_1526_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 101.7 / 91
p0 −0.02735 ± 0.04712
pull
Entries 92
Mean −50.5
Std Dev 0
pull1D
Entries 92
Mean −0.01049
Std Dev 1.051

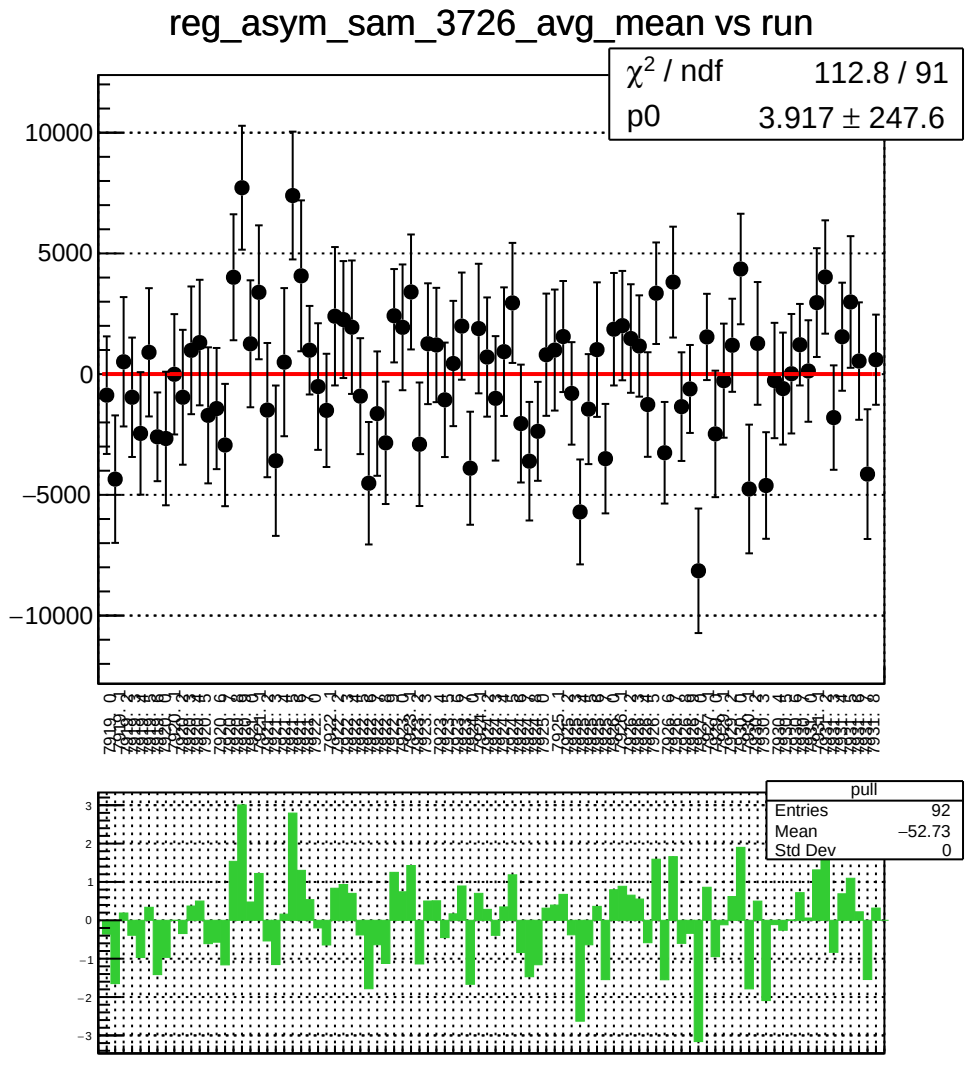

asym_sam_1526_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.303e+04 / 91
p0 43.57 ± 0.03332
90
80
70
60
50
40
30

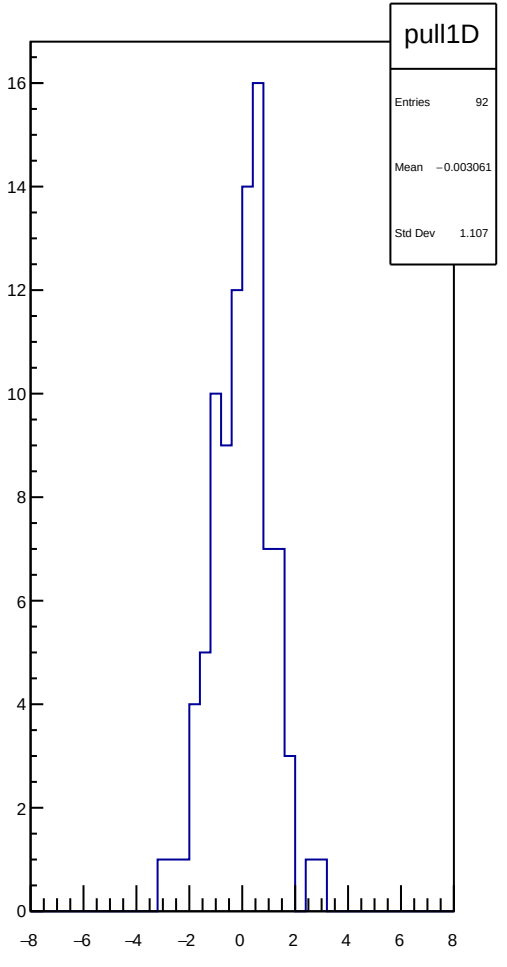

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.7 / 91
p0 −0.02735 ± 0.04712
pull
Entries 92
Mean −50.5
Std Dev 0
pull1D
Entries 92
Mean −0.01049
Std Dev 1.051

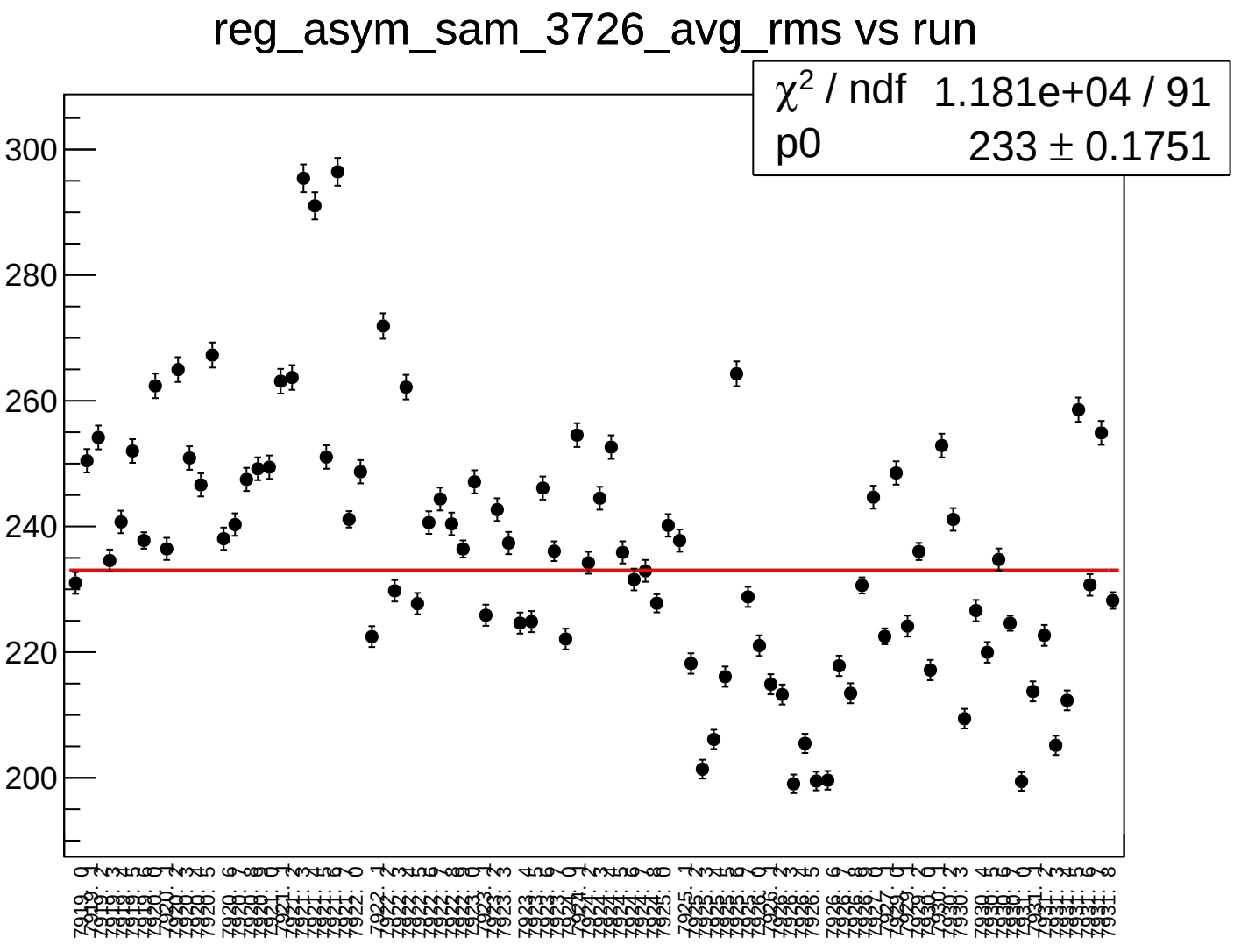

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 7.303e+04 / 91
p0 43.57 ± 0.03332
90
80
70
60
50
40
30

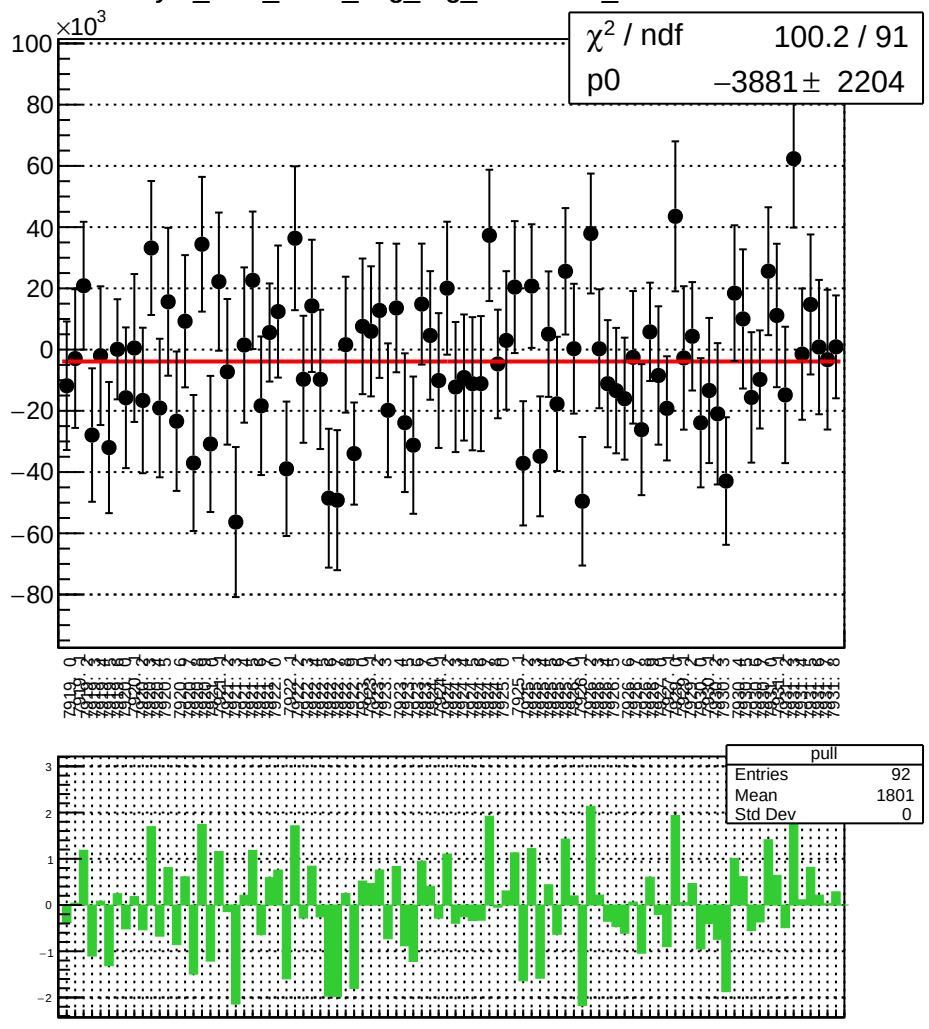

asym_sam_1526_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.78 / 91
p0 3.021e−14 ± 1.162e−13
10
5
0
−5
−10
pull
Entries 92
Mean 49.1
Std Dev 23.59
2
1
0
−1
−2
−3
−4
pull1D
Entries 92
Mean 0.1675
Std Dev 1.028
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

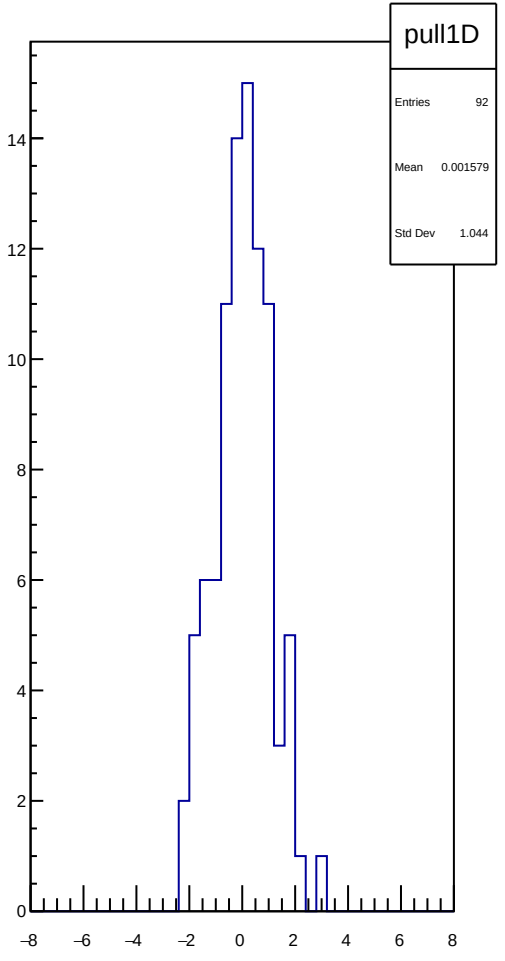

asym_sam_1526_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.538e+05 / 91
p0 8.729e−11 ± 8.215e−14
0.5
0.4
0.3
0.2
0.1

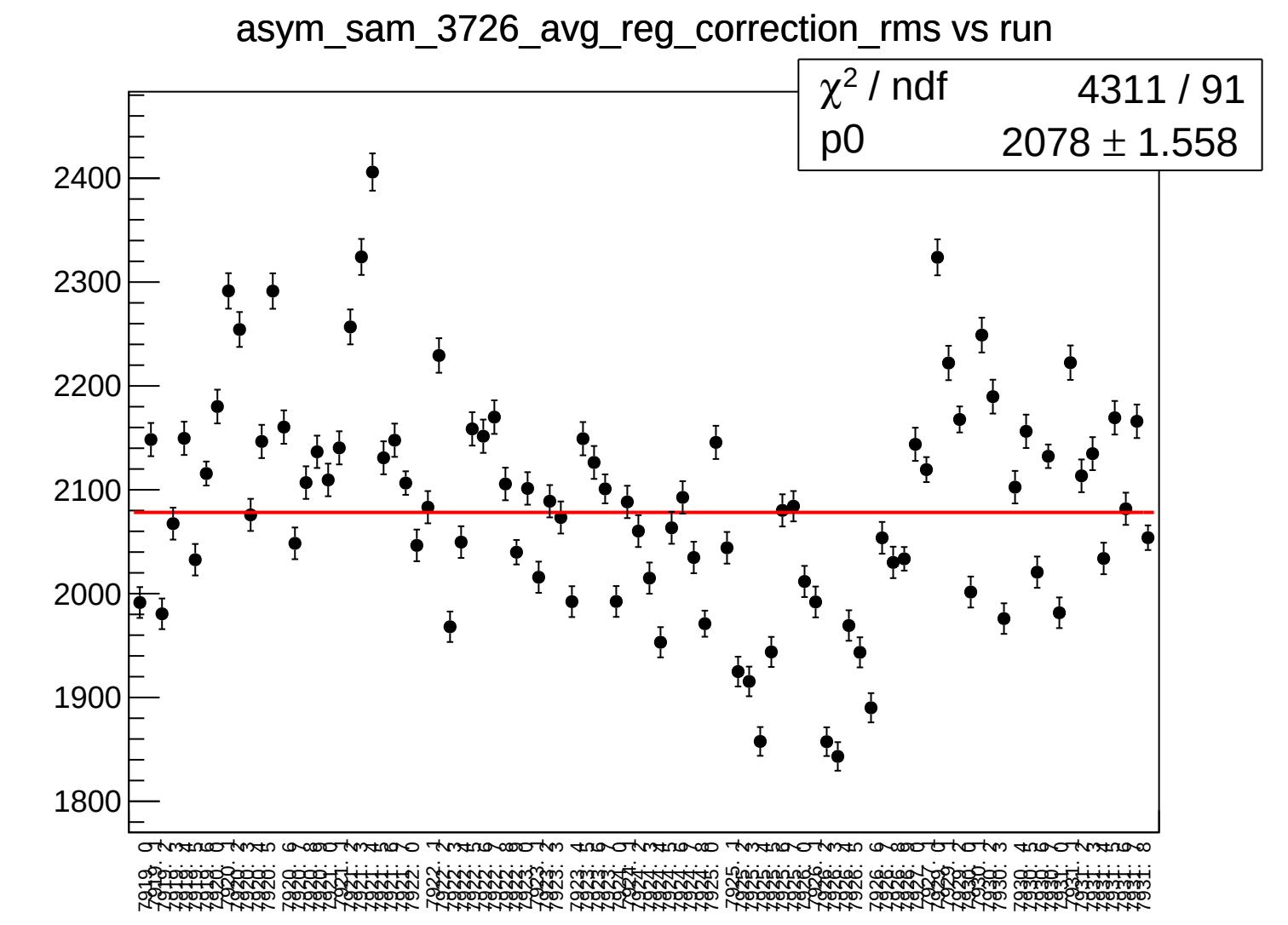

reg_asym_sam_3726_avg_mean vs run
χ² / ndf 112.8 / 91
p0 3.917 ± 247.6
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −52.73
Std Dev 0
3
2
1
0
−1
−2
−3

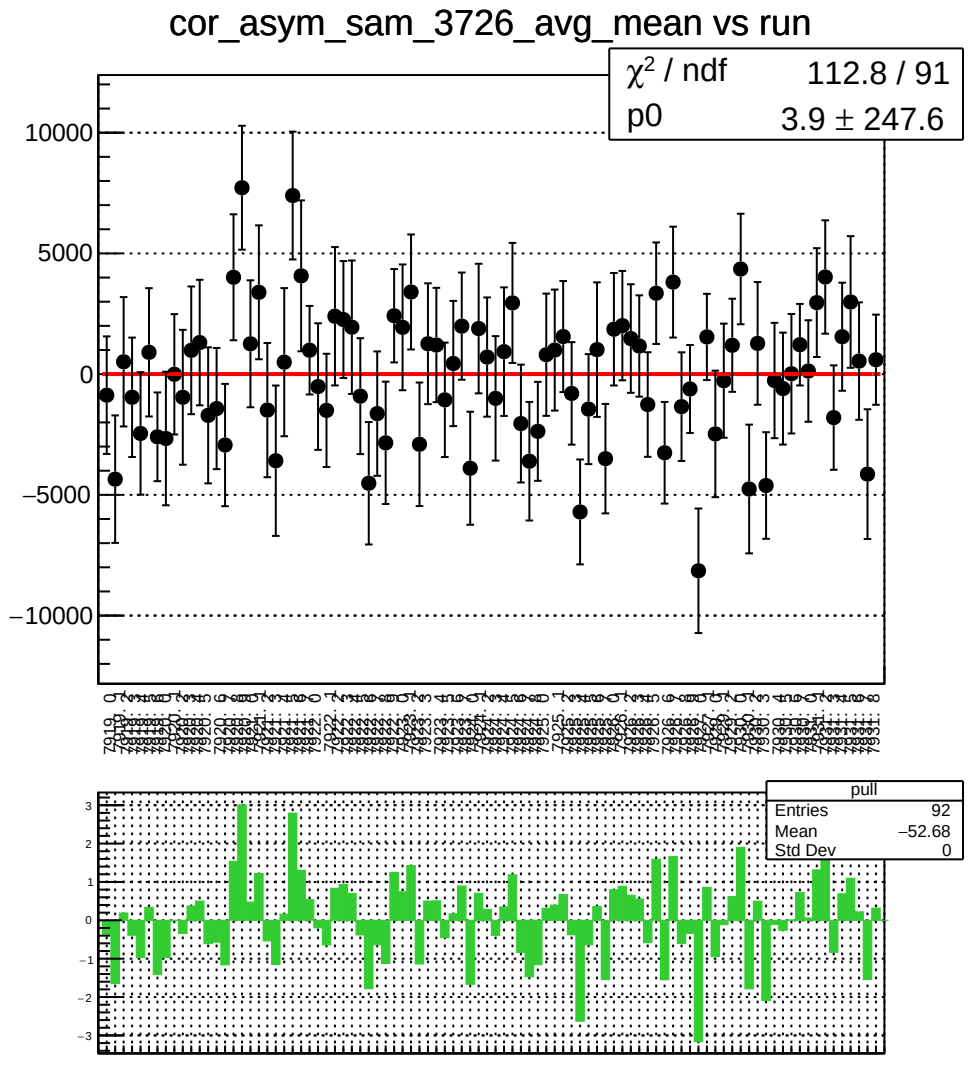

pull1D
Entries 92
Mean −0.003061
Std Dev 1.107
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

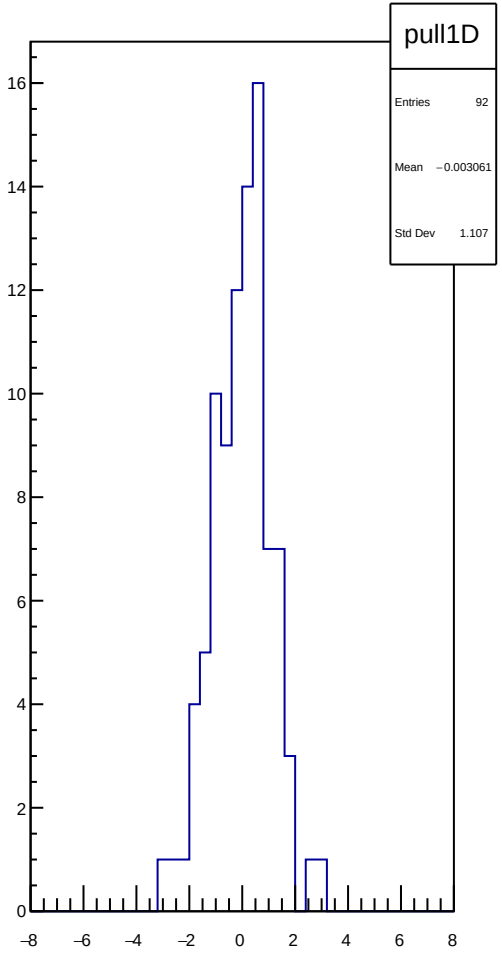

reg_asym_sam_3726_avg_rms vs run
χ² / ndf 1.181e+04 / 91
p0 233 ± 0.1751
300
280
260
240
220
200

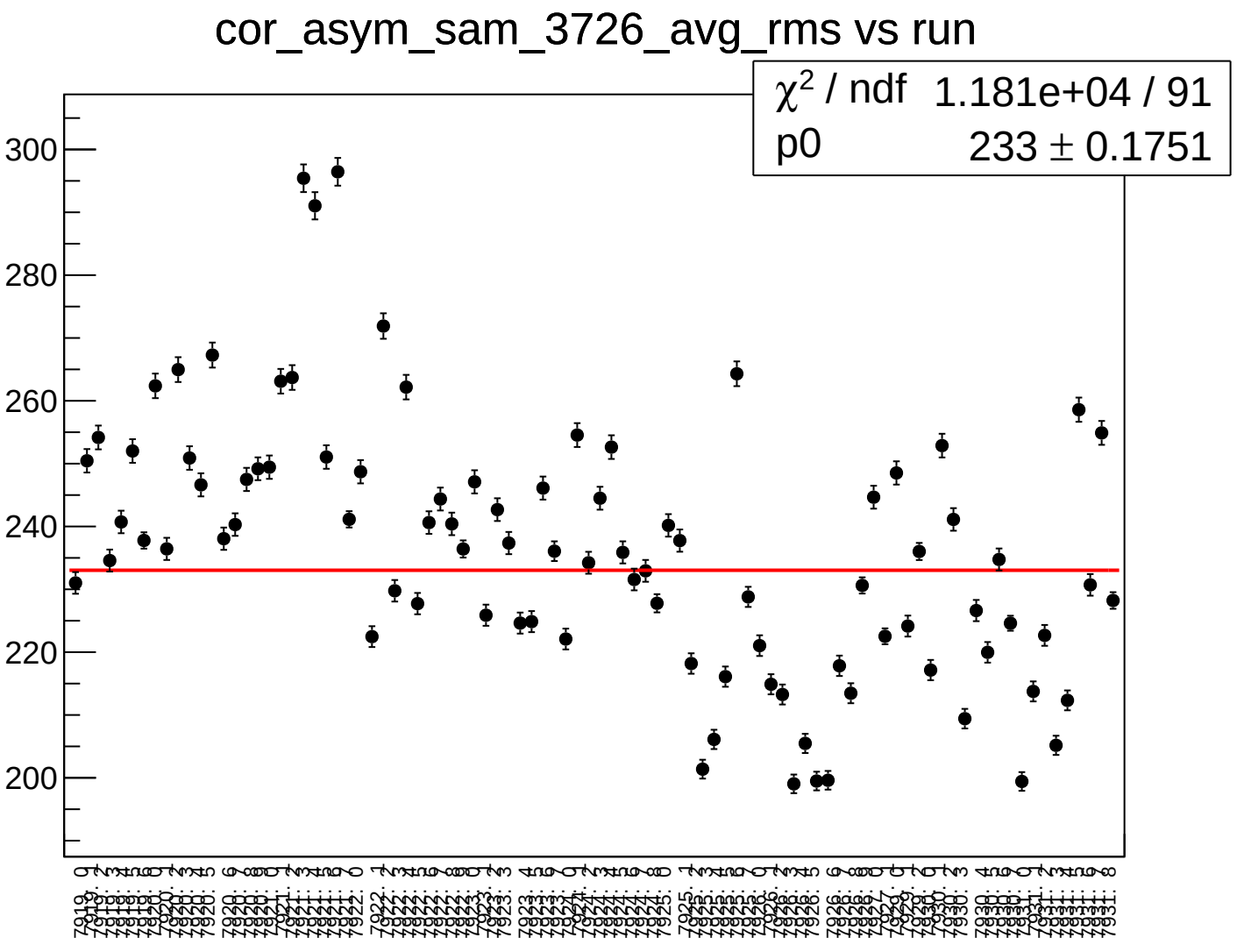

asym_sam_3726_avg_reg_correction_mean vs run
χ² / ndf 100.2 / 91
p0 −3881 ± 2204
×10³
pull
Entries 92
Mean 1801
Std Dev 0

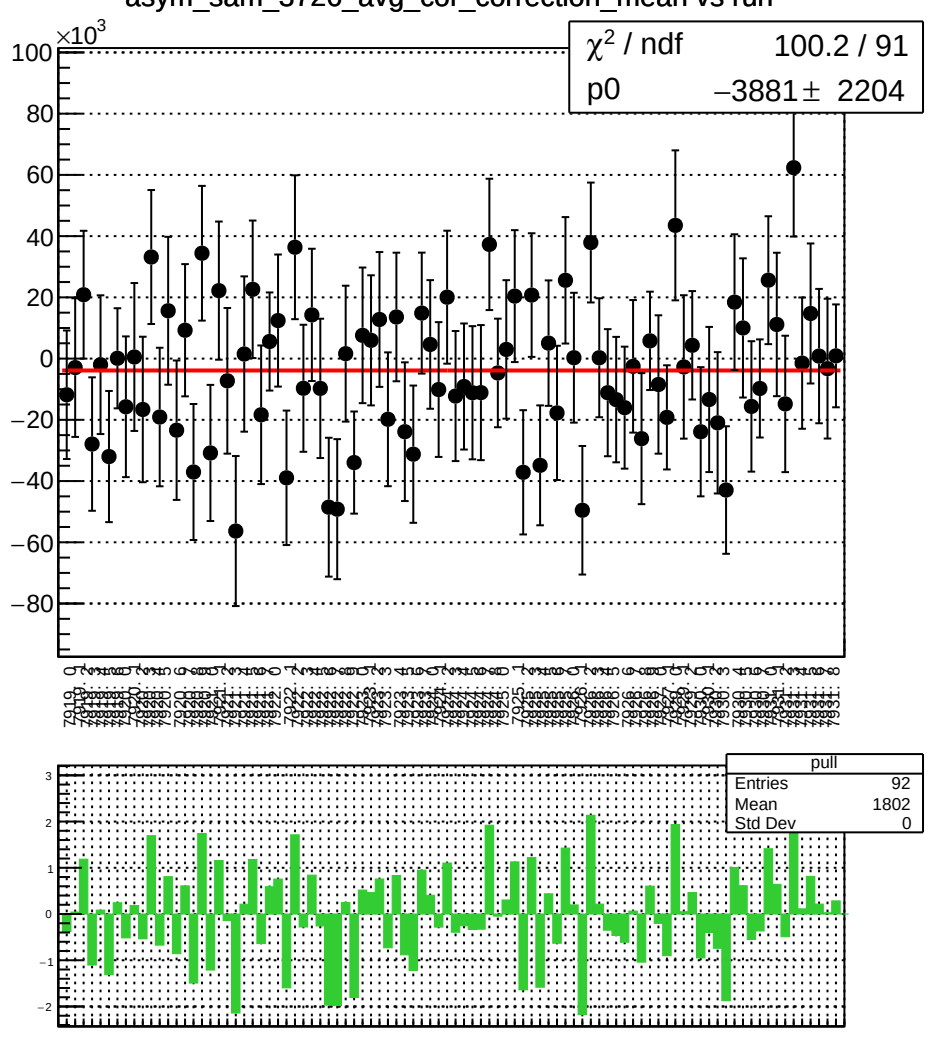

pull1D
Entries 92
Mean 0.001579
Std Dev 1.044

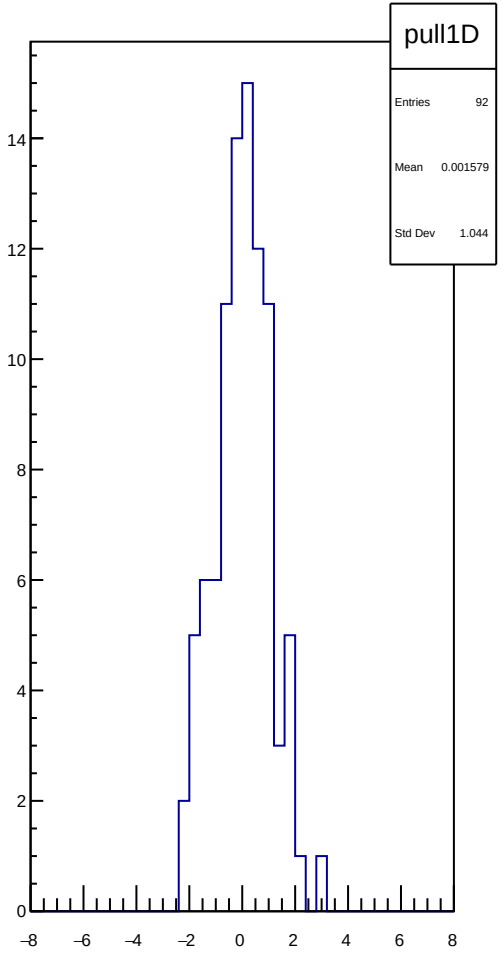

asym_sam_3726_avg_reg_correction_rms vs run
χ² / ndf 4311 / 91
p0 2078 ± 1.558
2400
2300
2200
2100
2000
1900
1800

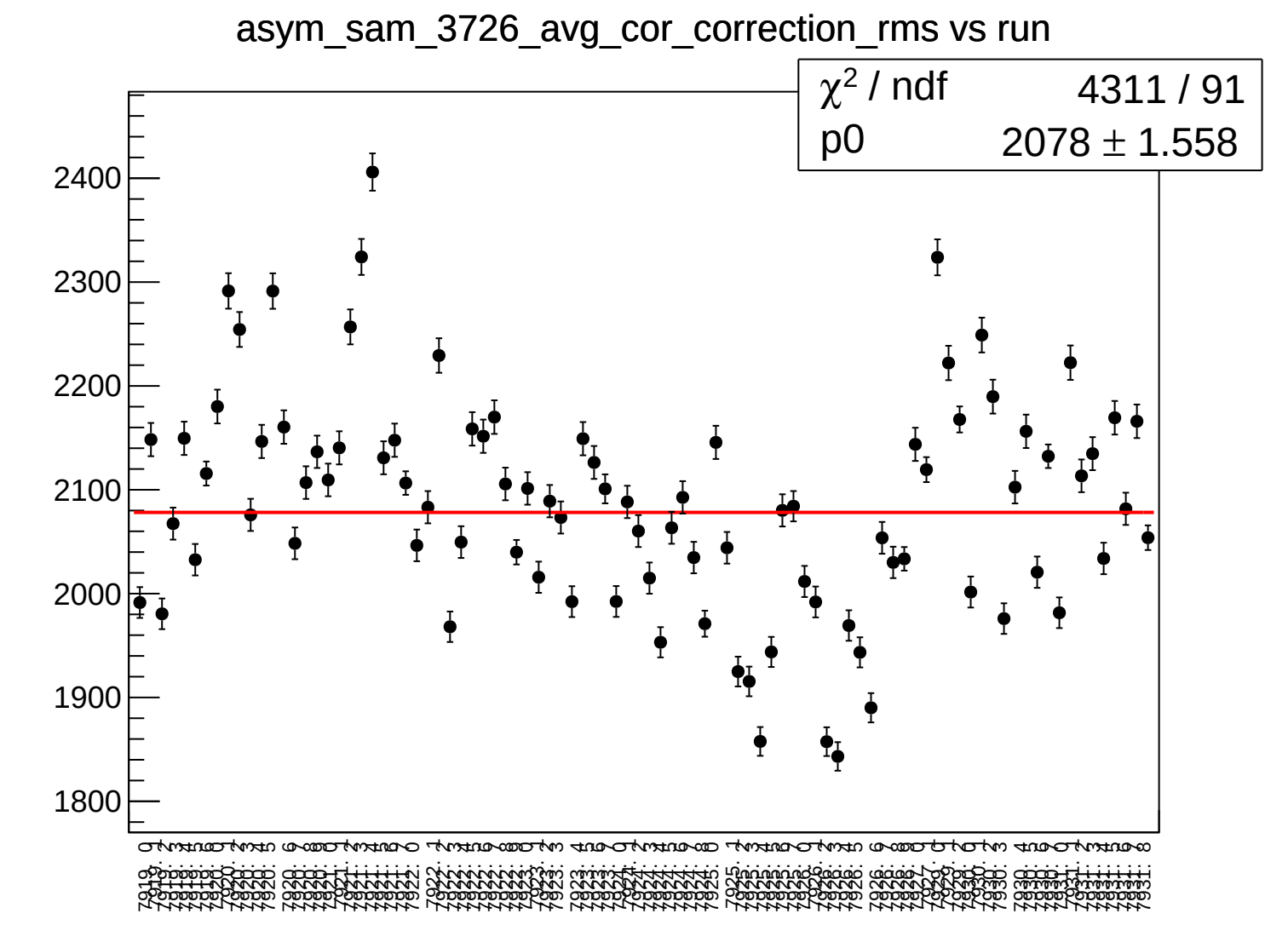

cor_asym_sam_3726_avg_mean vs run
χ² / ndf 112.8 / 91
p0 3.9 ± 247.6
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −52.68
Std Dev 0
3
2
1
0
−1
−2
−3

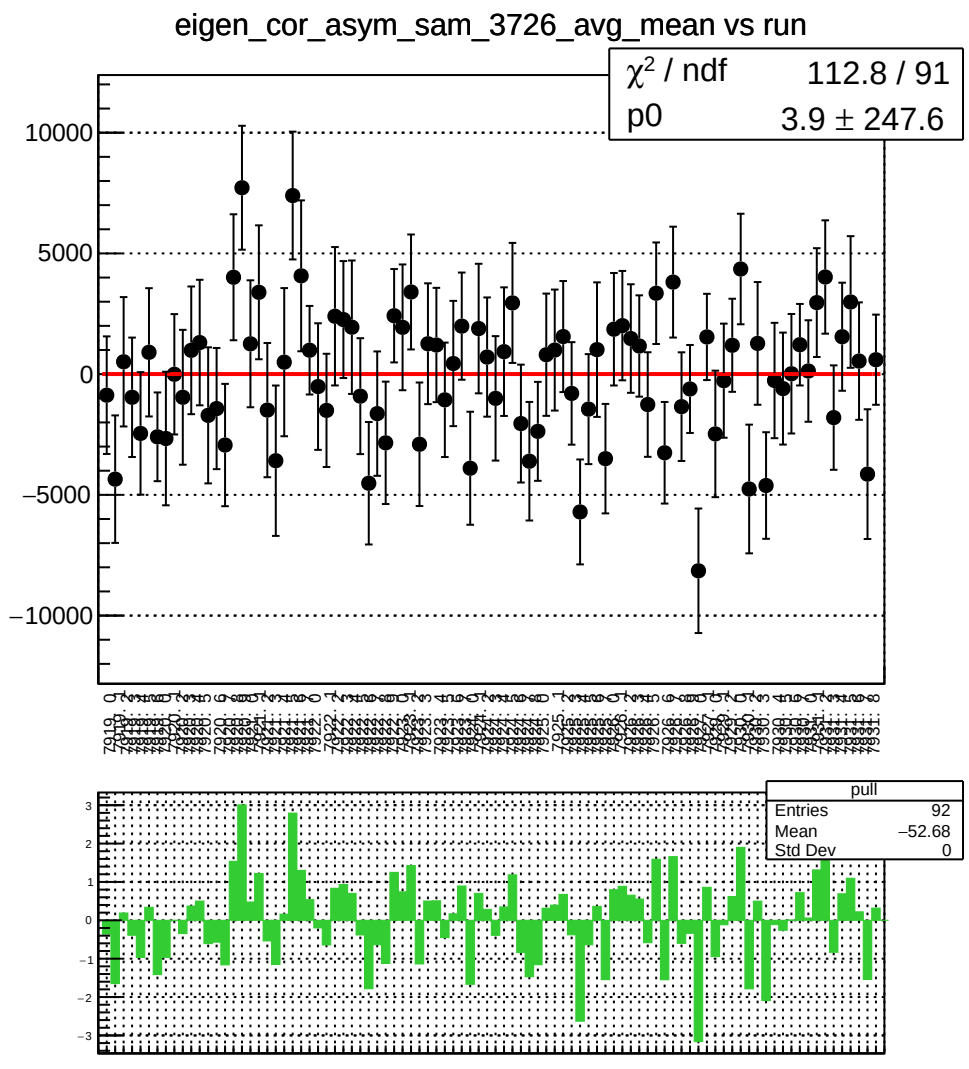

pull1D
Entries 92
Mean −0.003061
Std Dev 1.107
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

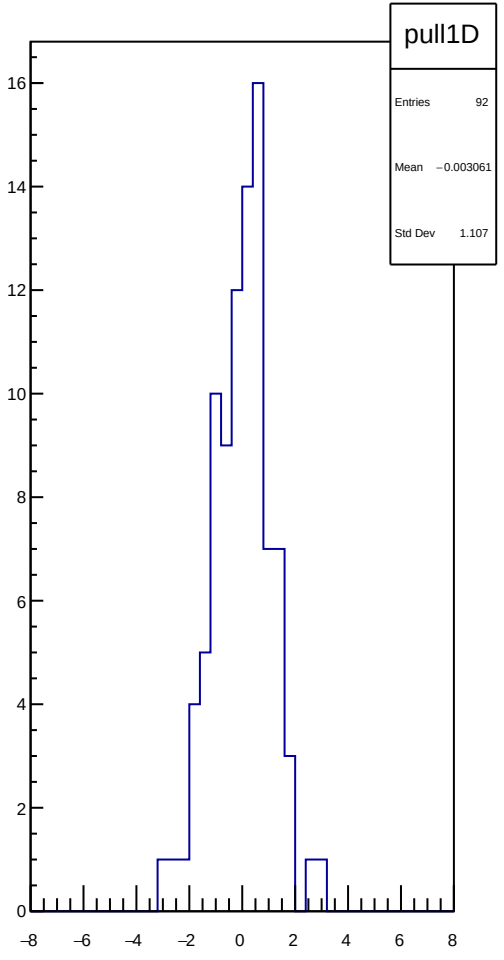

cor_asym_sam_3726_avg_rms vs run
χ² / ndf 1.181e+04 / 91
p0 233 ± 0.1751
300
280
260
240
220
200

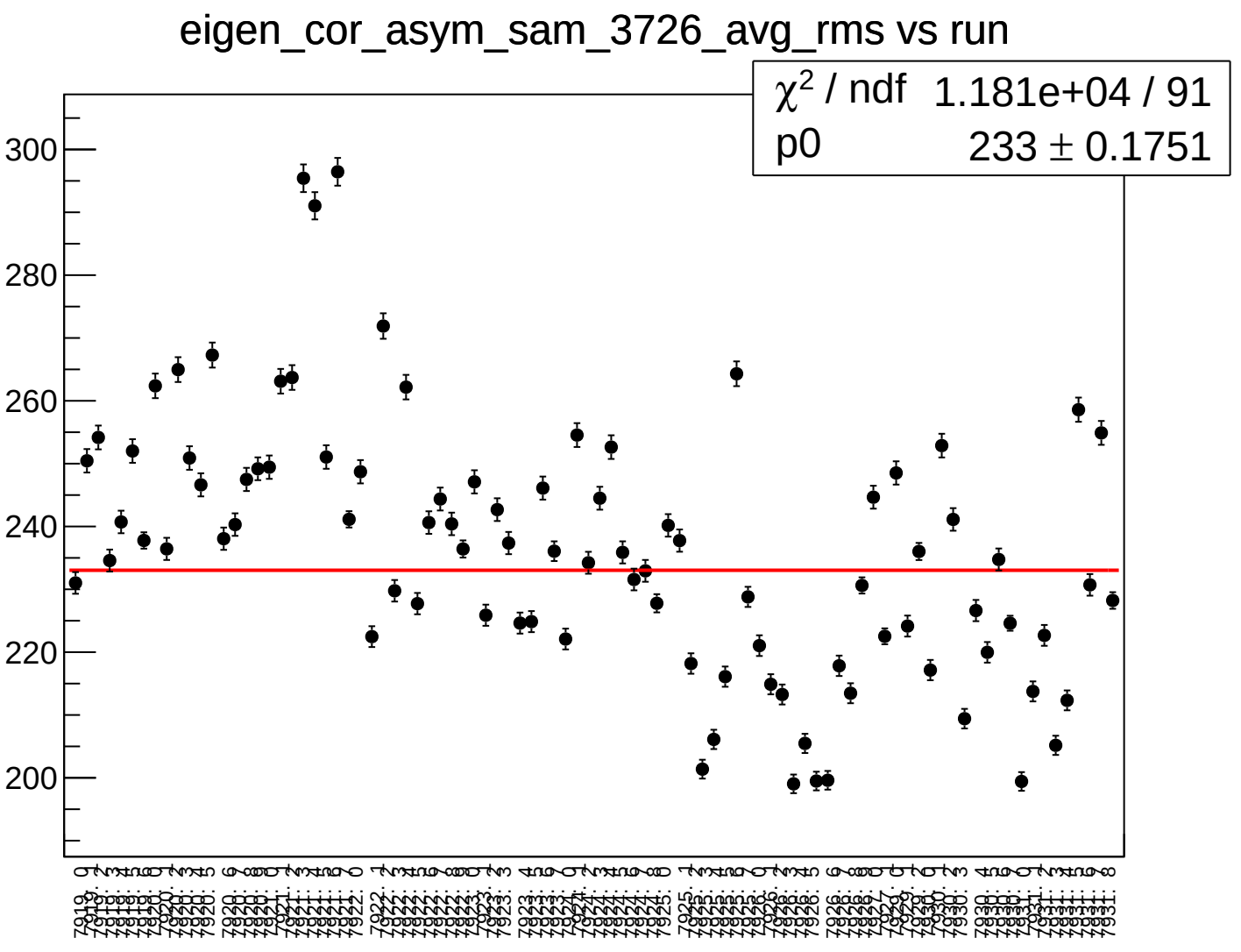

asym_sam_3726_avg_cor_correction_mean vs run
χ² / ndf 100.2 / 91
p0 −3881 ± 2204
×10³
pull
Entries 92
Mean 1802
Std Dev 0

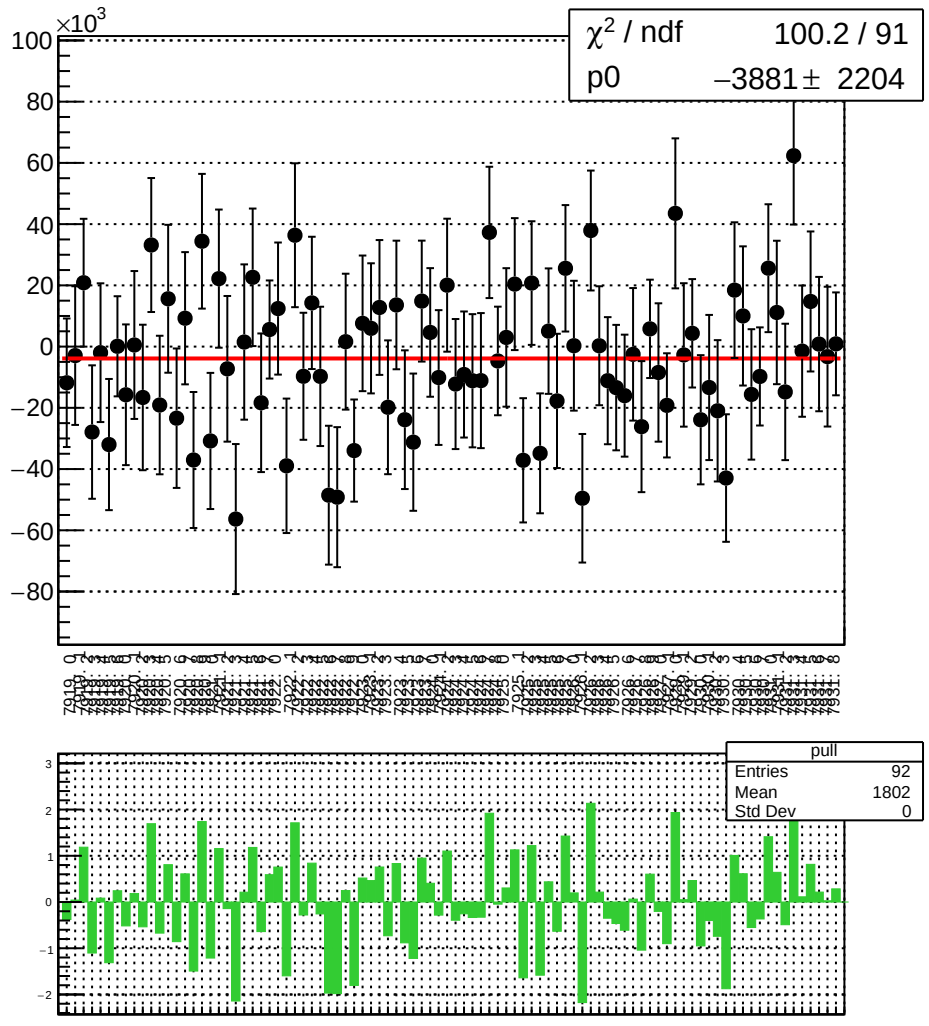

pull1D
Entries 92
Mean 0.001579
Std Dev 1.044

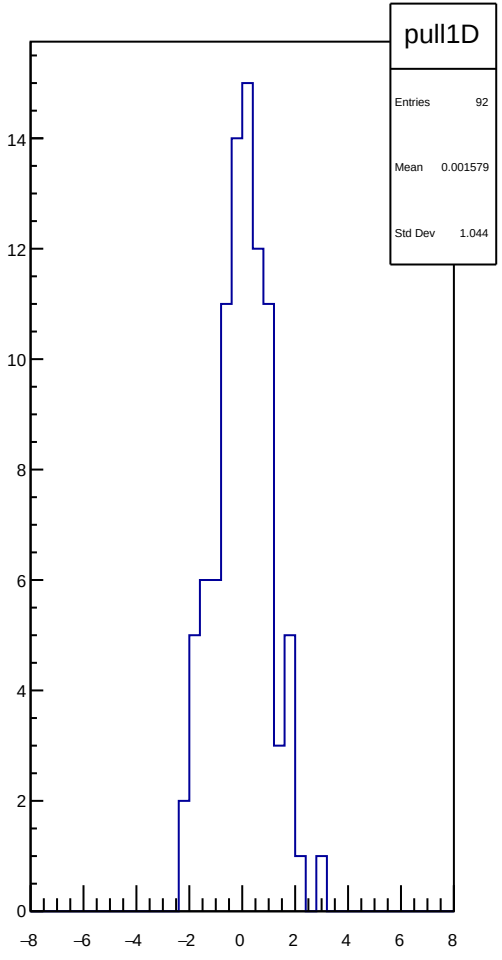

asym_sam_3726_avg_cor_correction_rms vs run
χ² / ndf 4311 / 91
p0 2078 ± 1.558
2400
2300
2200
2100
2000
1900
1800

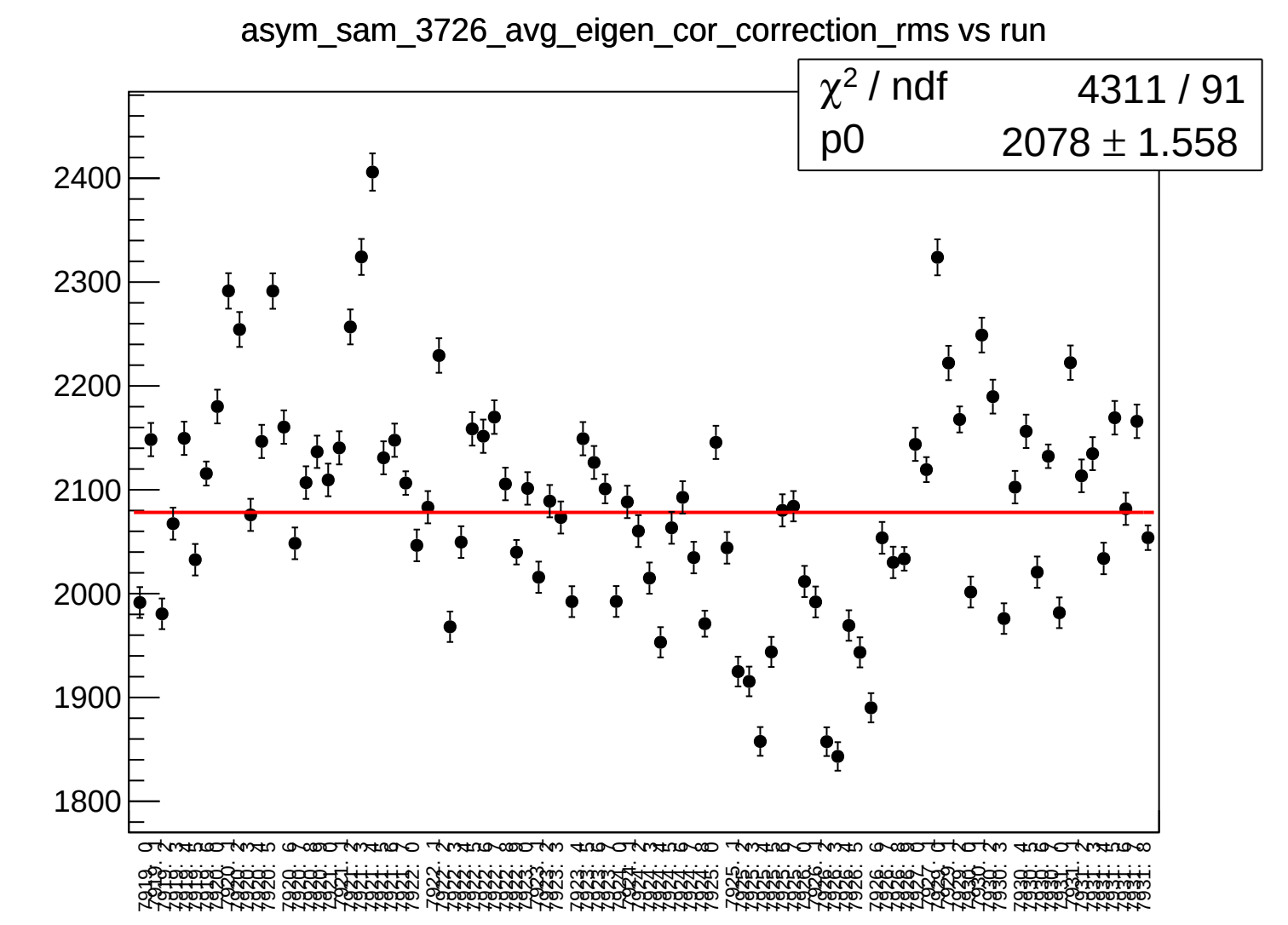

eigen_cor_asym_sam_3726_avg_mean vs run
χ² / ndf 112.8 / 91
p0 3.9 ± 247.6
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −52.68
Std Dev 0
3
2
1
0
−1
−2
−3

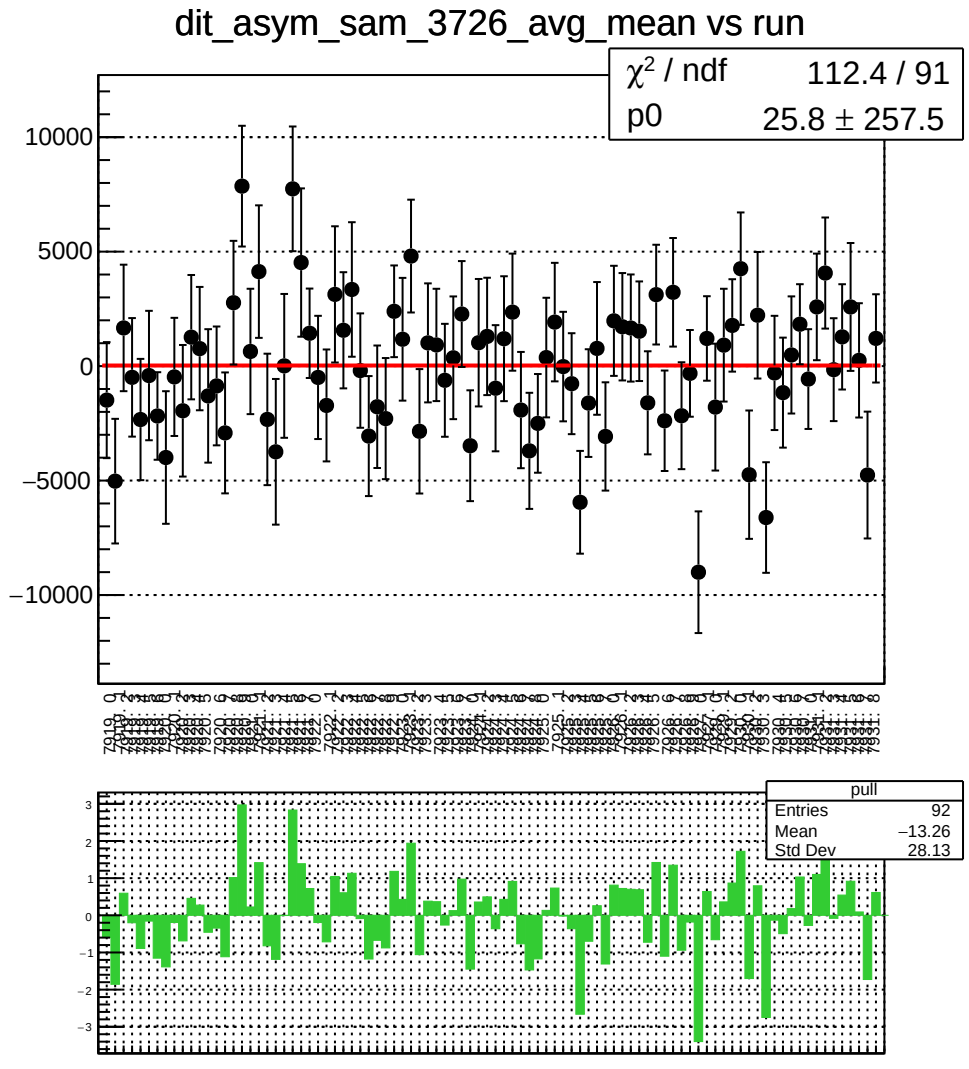

pull1D
Entries 92
Mean −0.003061
Std Dev 1.107
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

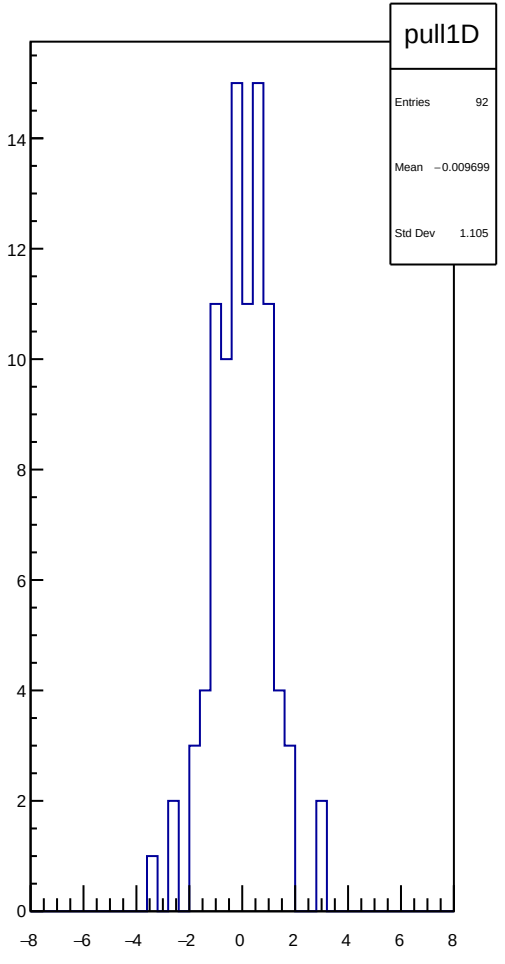

eigen_cor_asym_sam_3726_avg_rms vs run
χ² / ndf 1.181e+04 / 91
p0 233 ± 0.1751
300
280
260
240
220
200

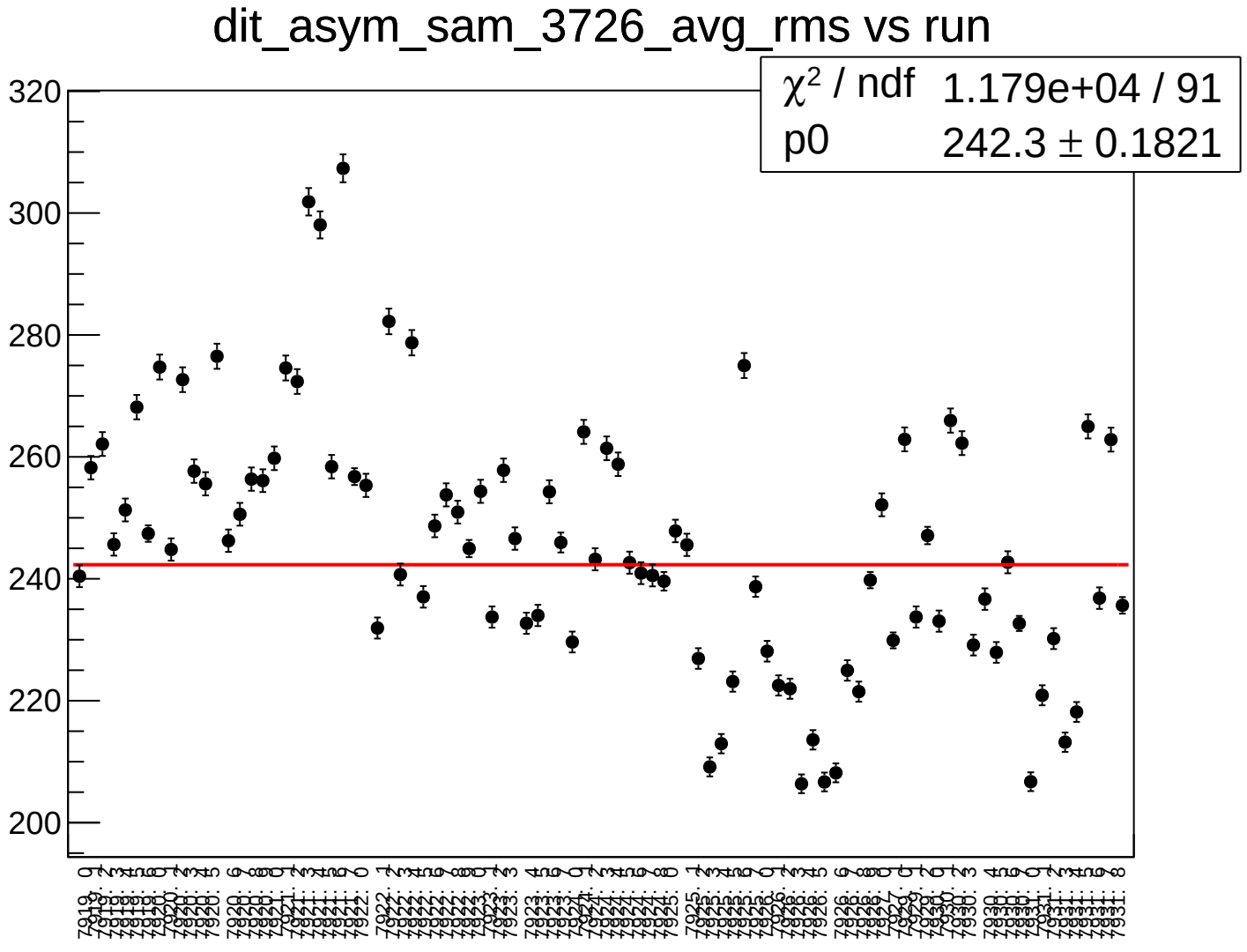

asym_sam_3726_avg_eigen_cor_correction_mean vs run
χ² / ndf 100.2 / 91
p0 −3881 ± 2204
pull
Entries 92
Mean 1802
Std Dev 0

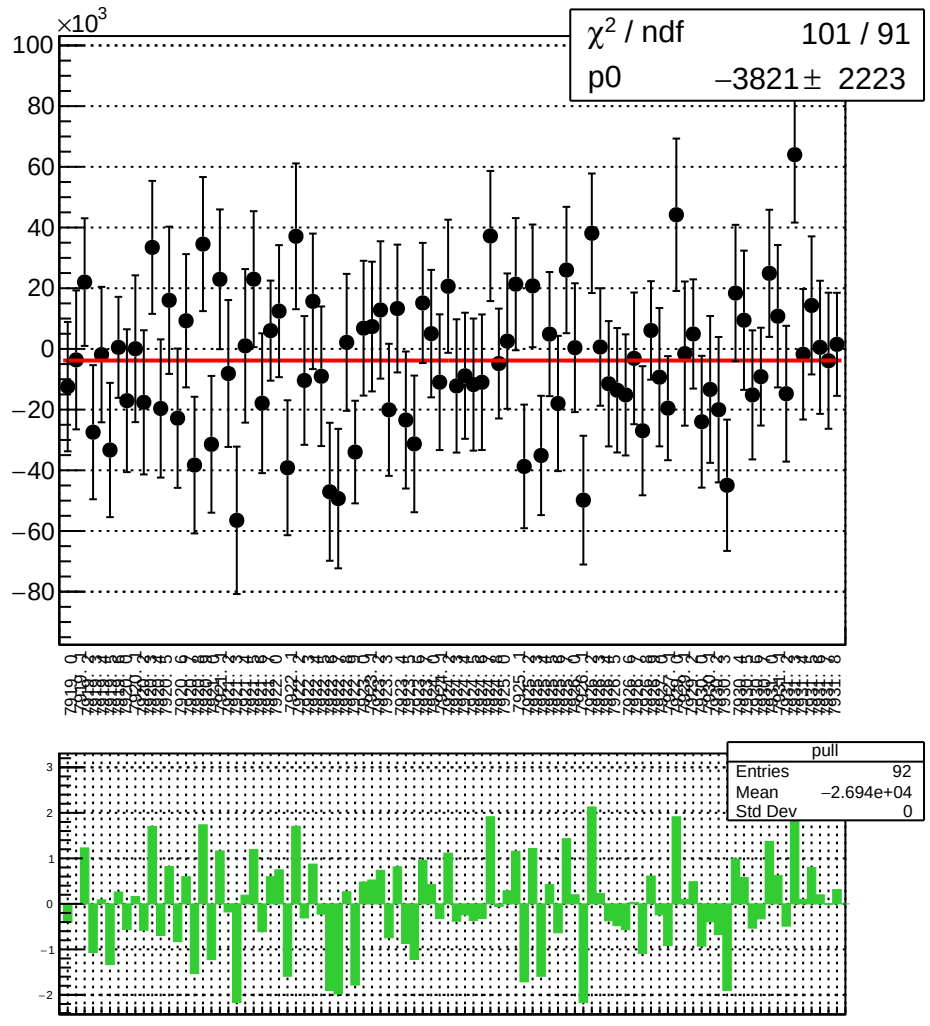

pull1D
Entries 92
Mean 0.001579
Std Dev 1.044

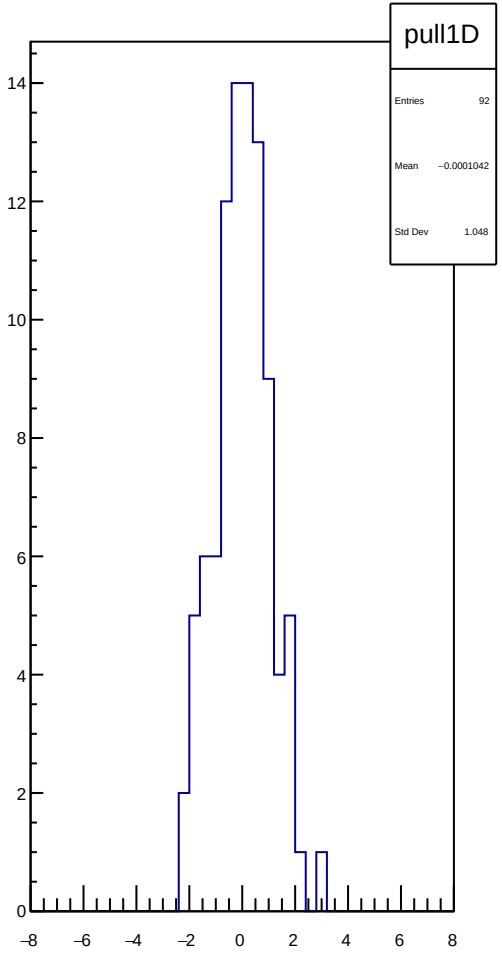

asym_sam_3726_avg_eigen_cor_correction_rms vs run
χ² / ndf 4311 / 91
p0 2078 ± 1.558
2400
2300
2200
2100
2000
1900
1800

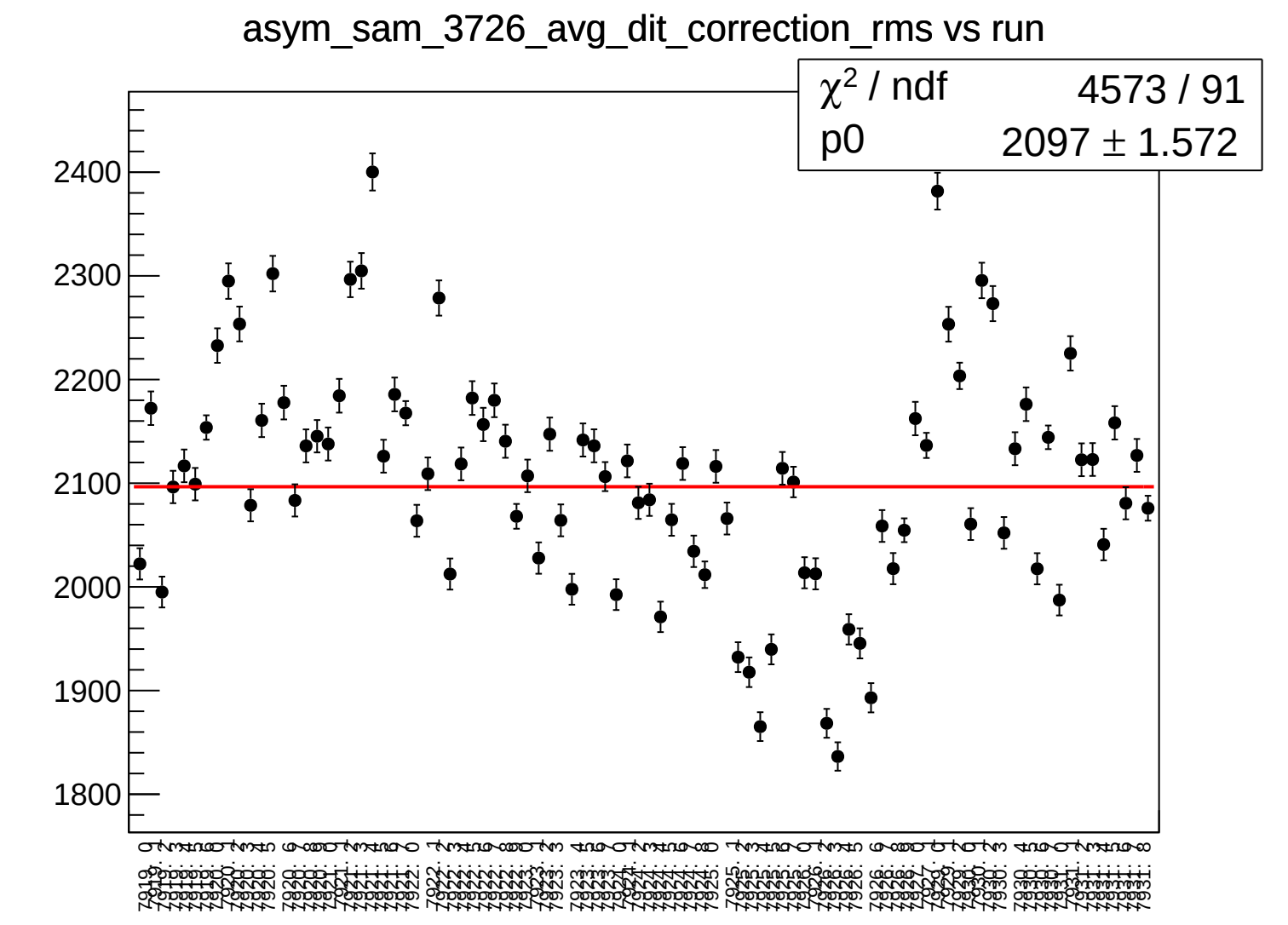

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 112.4 / 91
p0 25.8 ± 257.5
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −13.26
Std Dev 28.13
3
2
1
0
−1
−2
−3

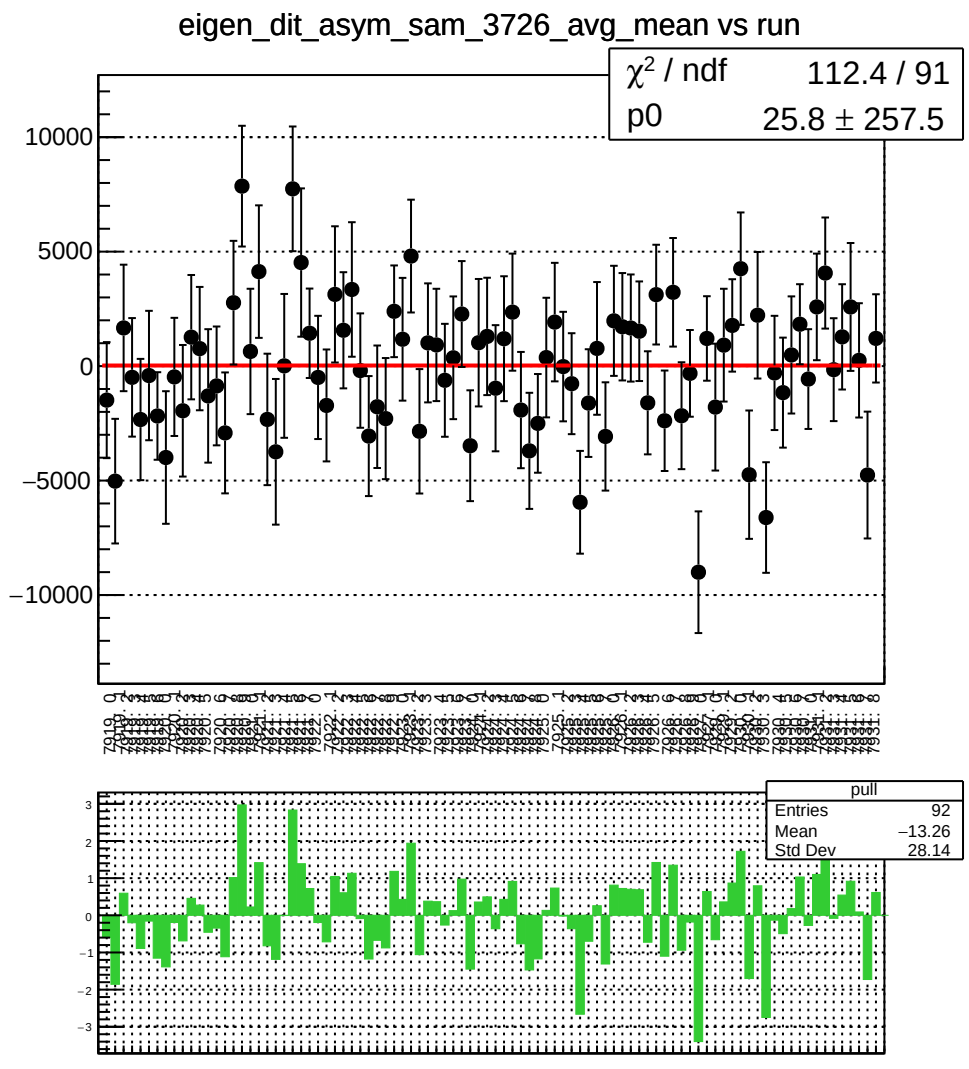

pull1D
Entries 92
Mean −0.009699
Std Dev 1.105
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

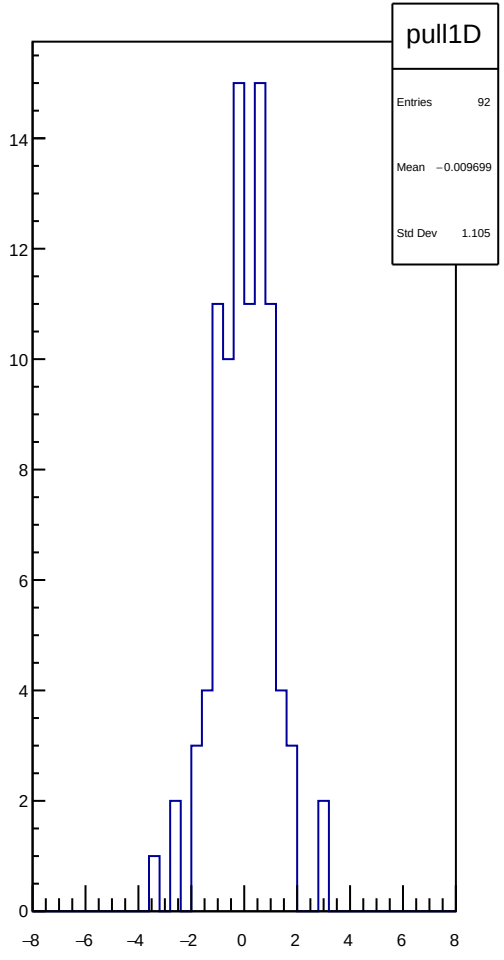

dit_asym_sam_3726_avg_rms vs run
χ² / ndf 1.179e+04 / 91
p0 242.3 ± 0.1821
320
300
280
260
240
220
200

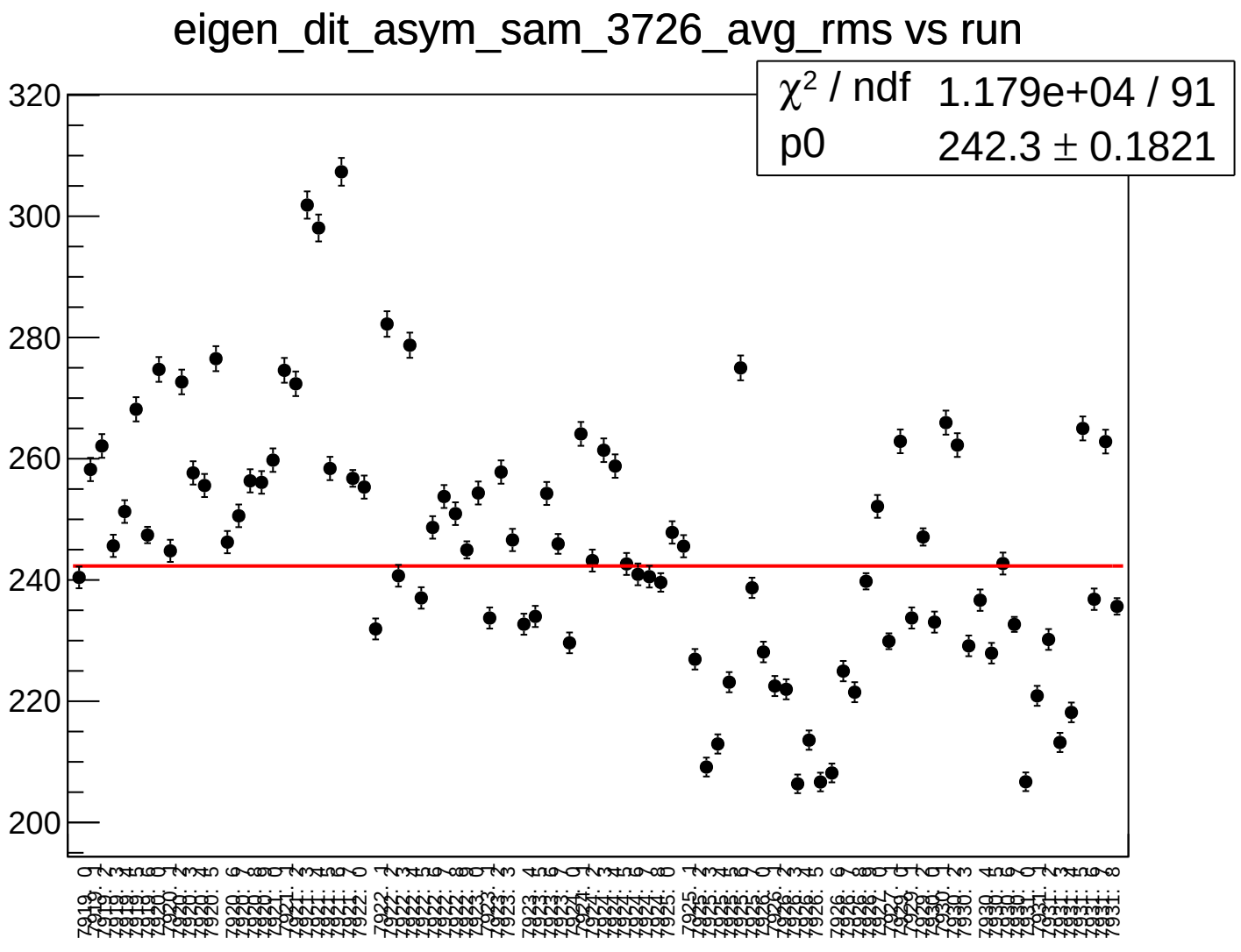

asym_sam_3726_avg_dit_correction_mean vs run
×10^3
χ² / ndf 101 / 91
p0 −3821 ± 2223
pull
Entries 92
Mean −2.694e+04
Std Dev 0

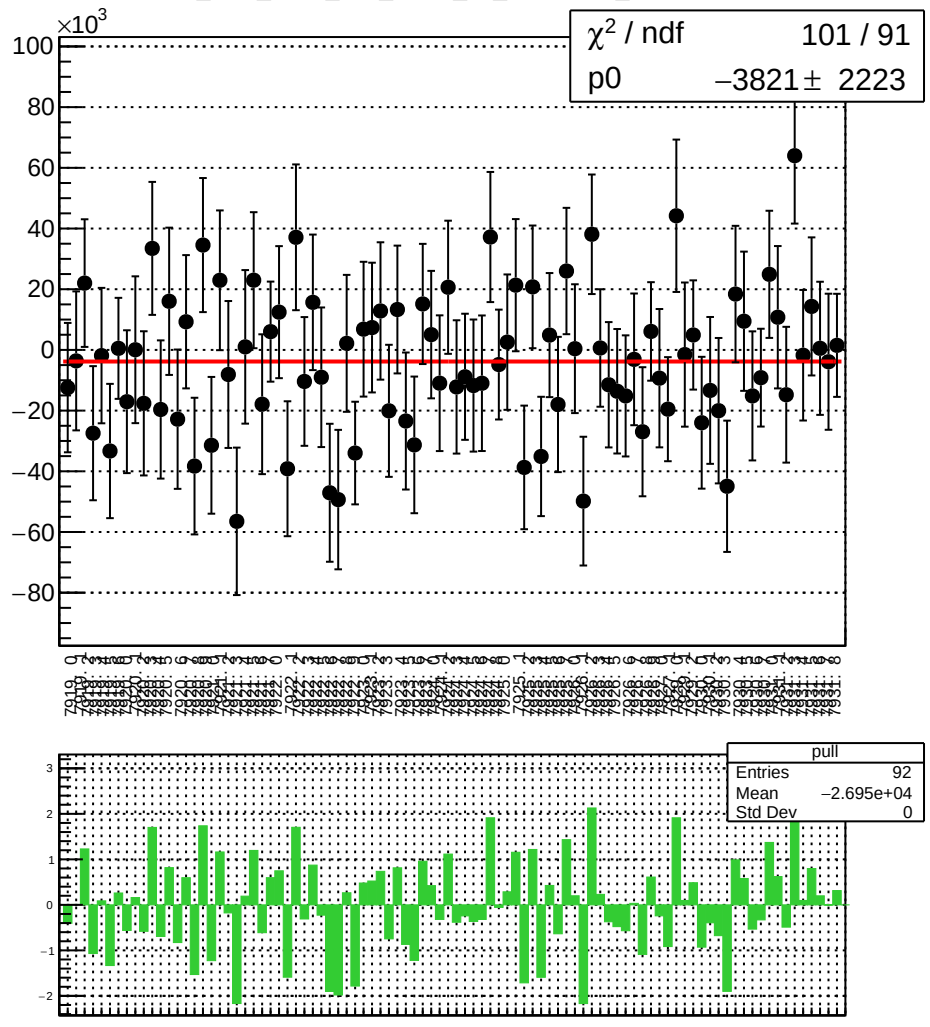

pull1D
Entries 92
Mean −0.0001042
Std Dev 1.048

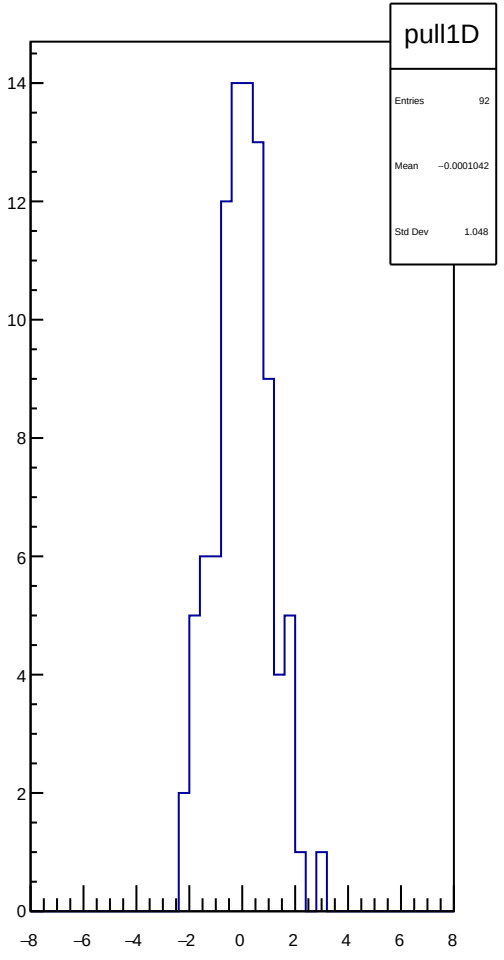

asym_sam_3726_avg_dit_correction_rms vs run
χ² / ndf 4573 / 91
p0 2097 ± 1.572
2400
2300
2200
2100
2000
1900
1800

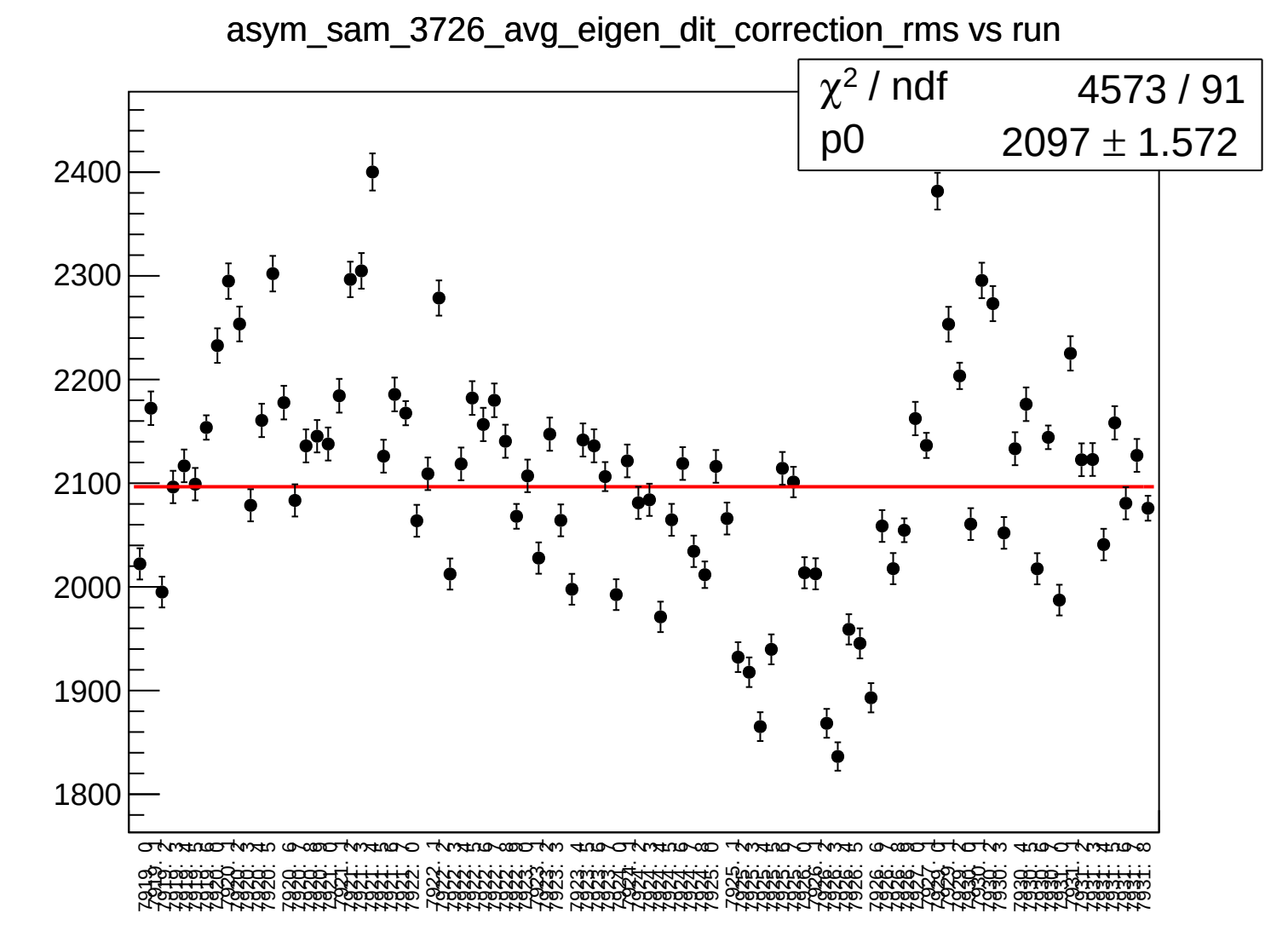

eigen_dit_asym_sam_3726_avg_mean vs run
χ² / ndf 112.4 / 91
p0 25.8 ± 257.5
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −13.26
Std Dev 28.14
3
2
1
0
−1
−2
−3

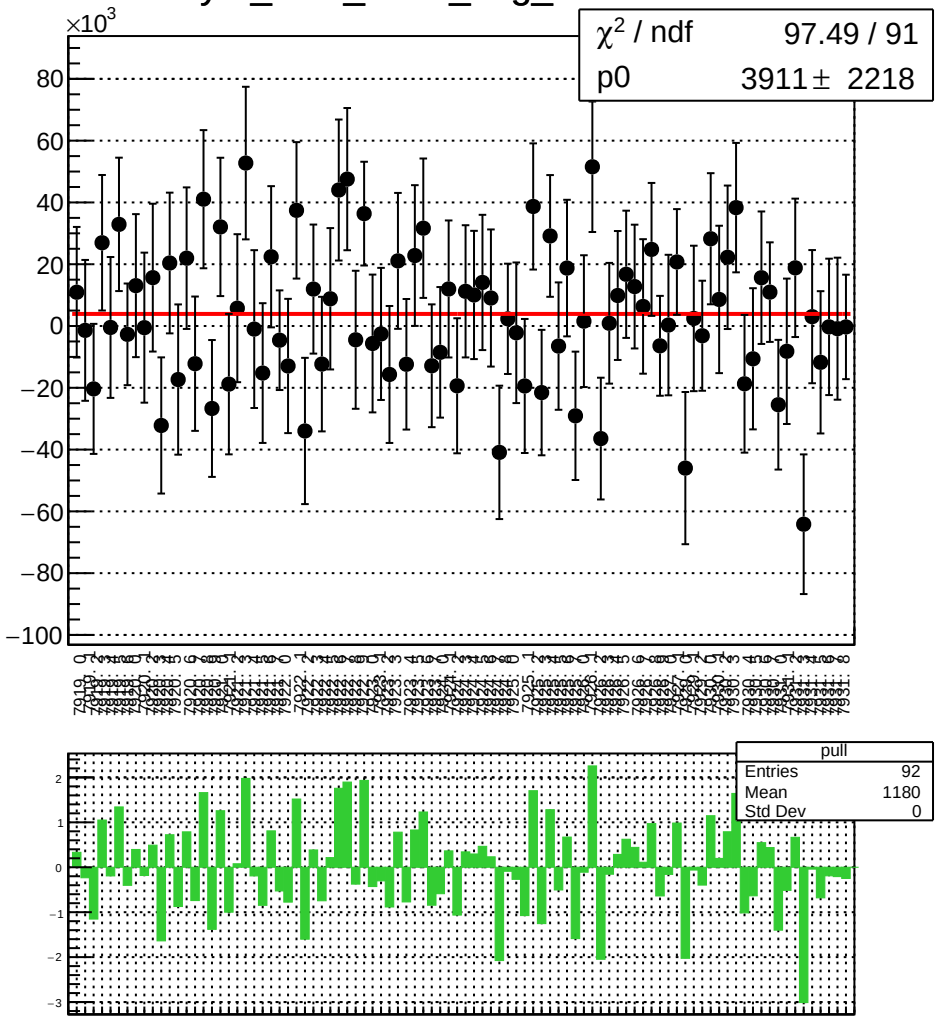

pull1D
Entries 92
Mean −0.009699
Std Dev 1.105
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

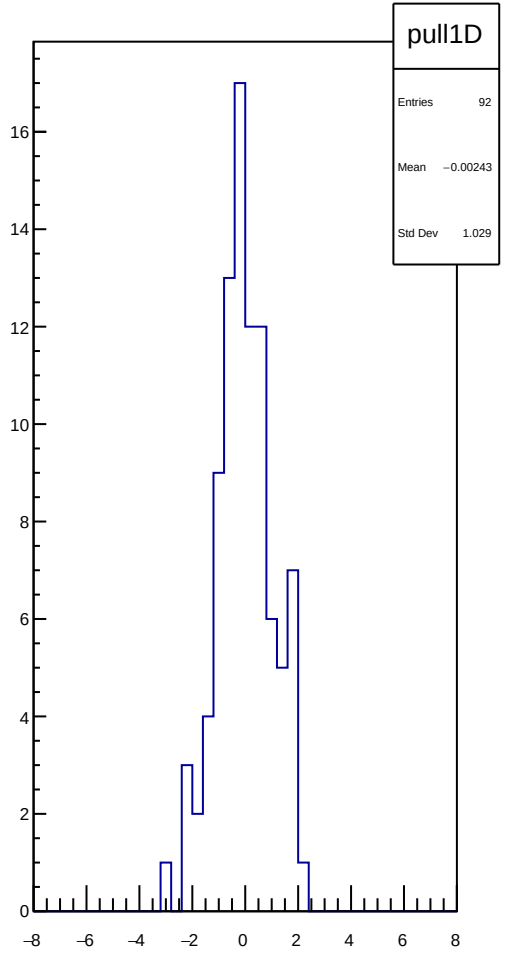

eigen_dit_asym_sam_3726_avg_rms vs run
χ² / ndf 1.179e+04 / 91
p0 242.3 ± 0.1821
320
300
280
260
240
220
200

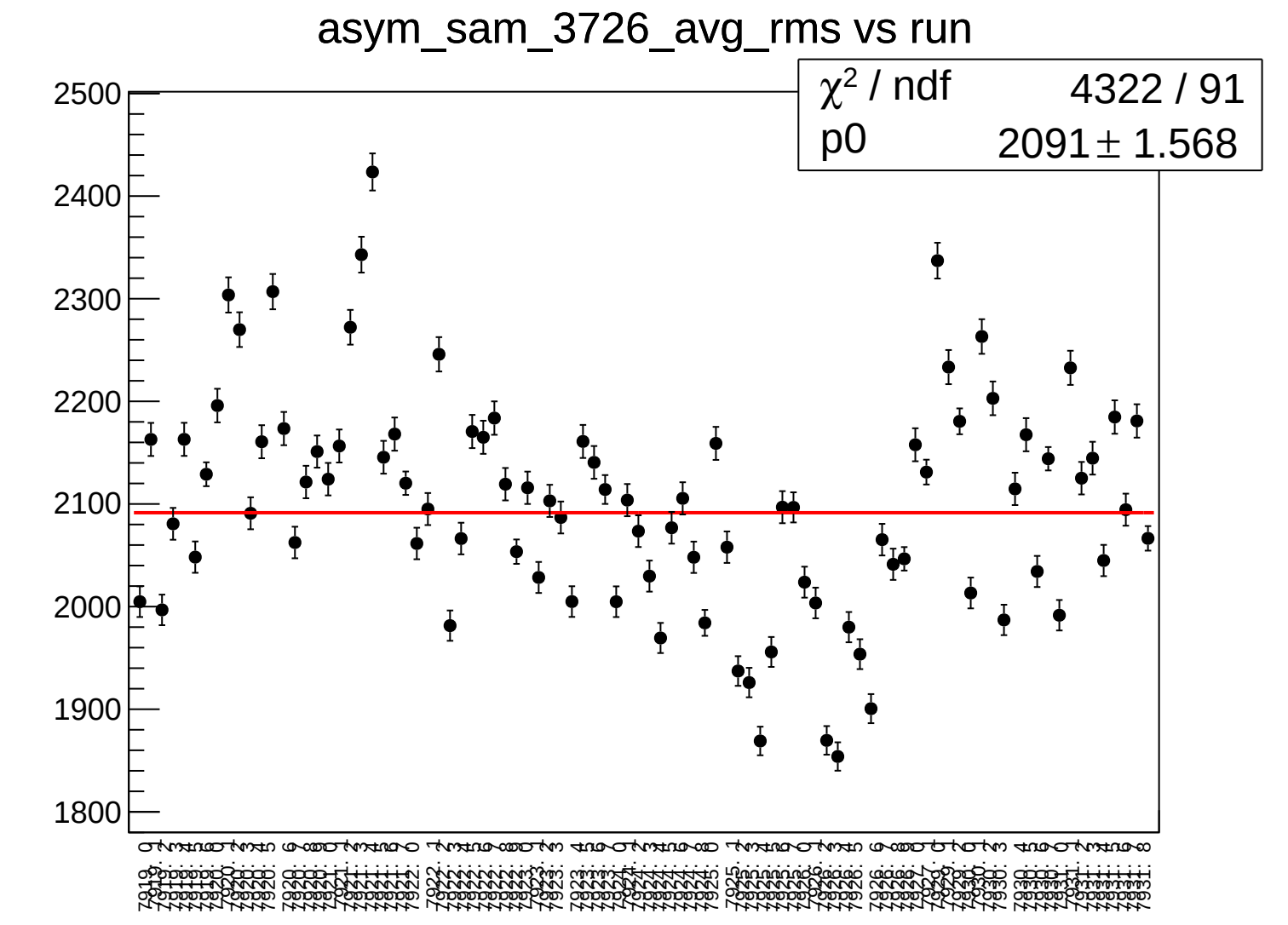

asym_sam_3726_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 101 / 91
p0 −3821 ± 2223
pull
Entries 92
Mean −2.695e+04
Std Dev 0

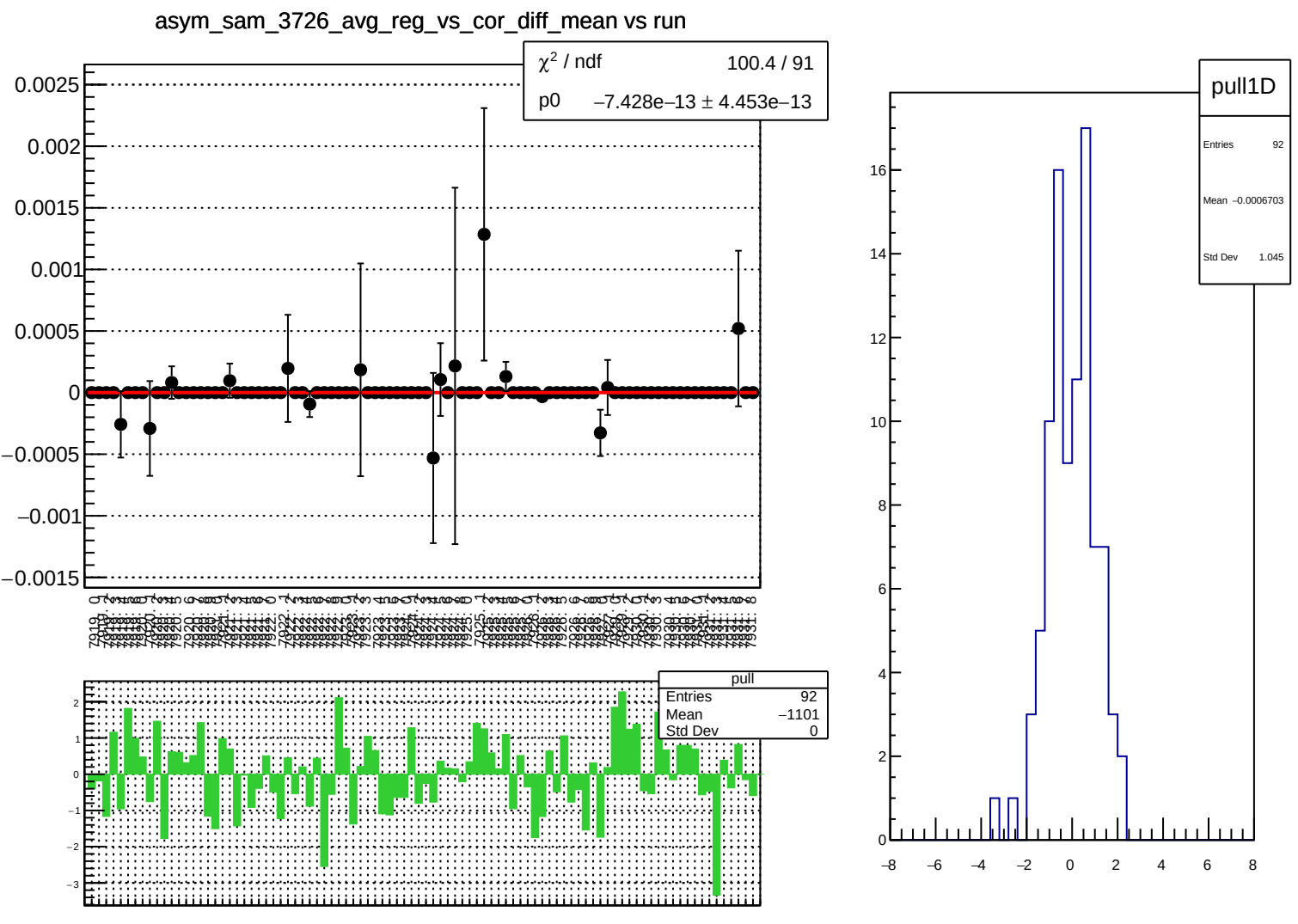

pull1D
Entries 92
Mean −0.0001042
Std Dev 1.048

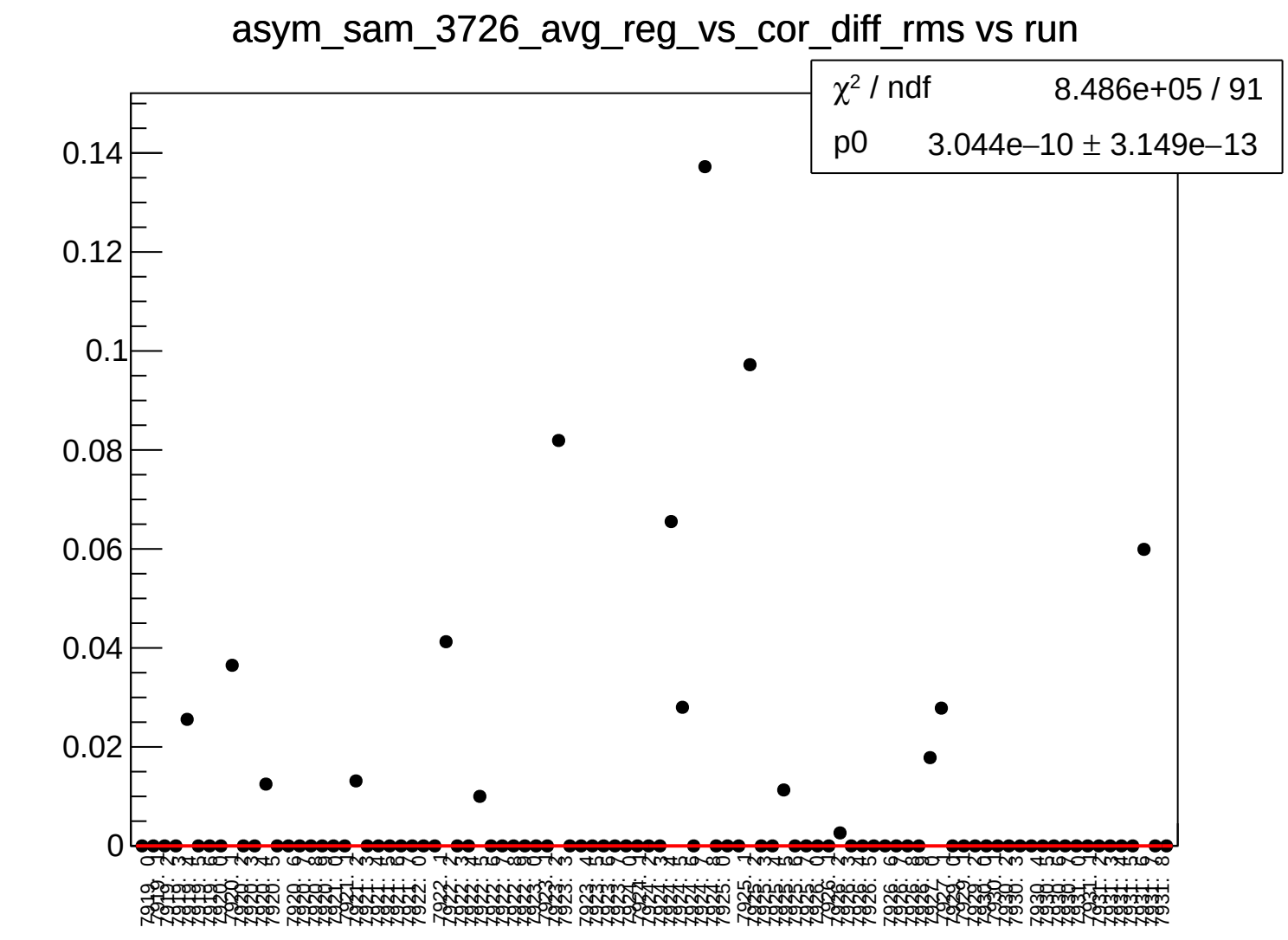

asym_sam_3726_avg_eigen_dit_correction_rms vs run
χ² / ndf 4573 / 91
p0 2097 ± 1.572
2400
2300
2200
2100
2000
1900
1800

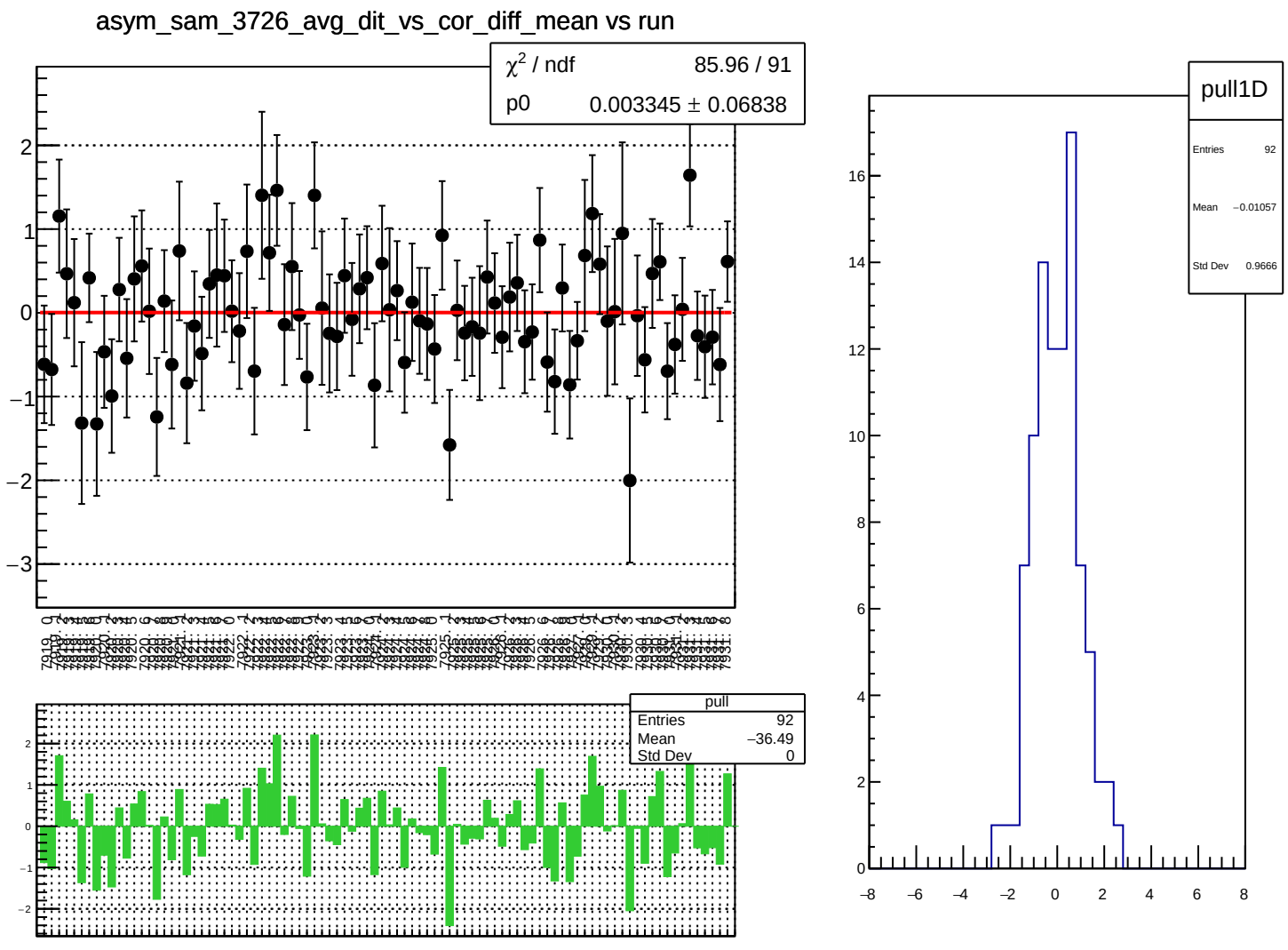

asym_sam_3726_avg_mean vs run
×10^3
χ^2 / ndf 97.49 / 91
p0 3911 ± 2218
pull
Entries 92
Mean 1180
Std Dev 0

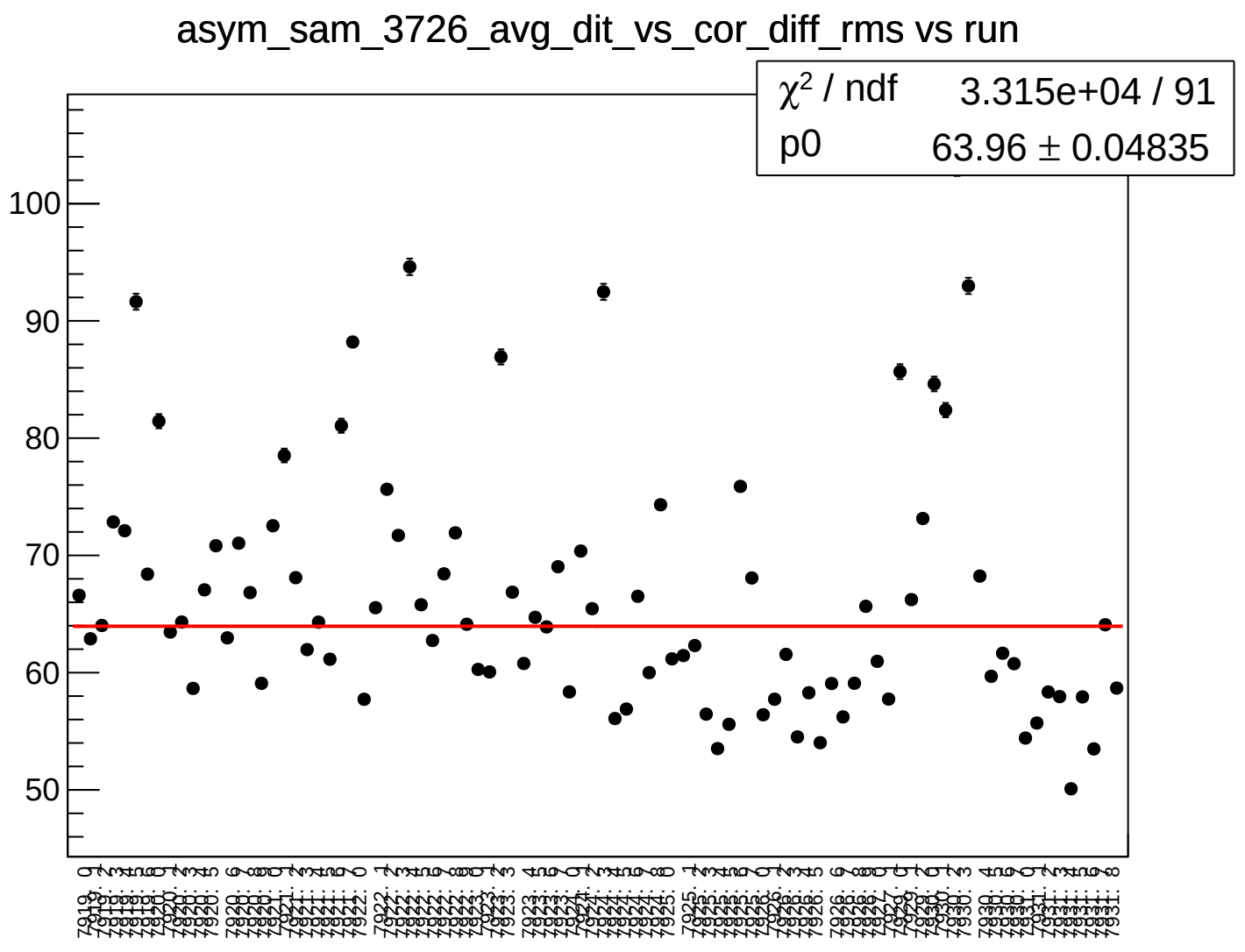

pull1D
Entries 92
Mean −0.00243
Std Dev 1.029

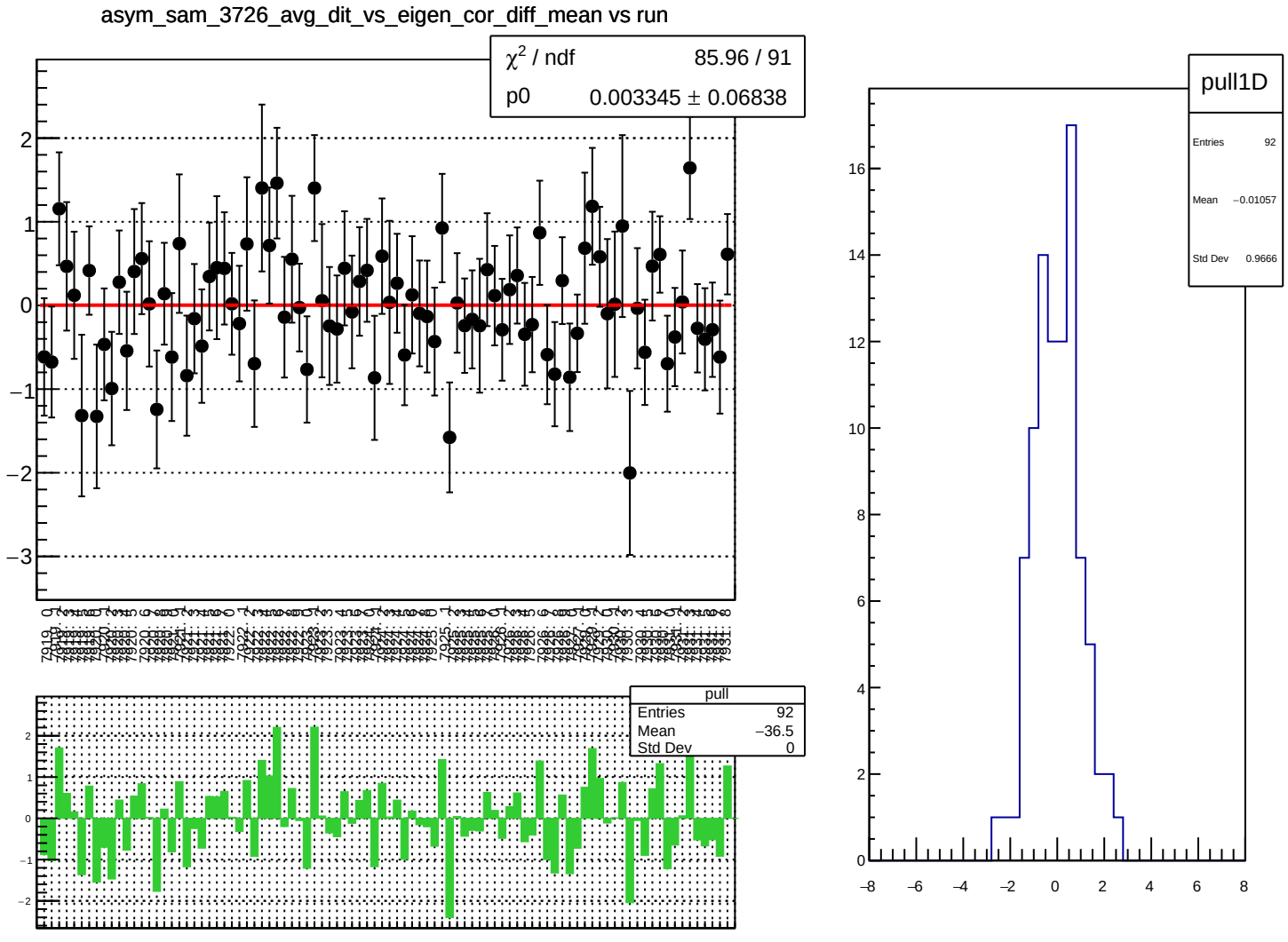

asym_sam_3726_avg_rms vs run
χ^2 / ndf 4322 / 91
p0 2091 ± 1.568
2500
2400
2300
2200
2100
2000
1900
1800

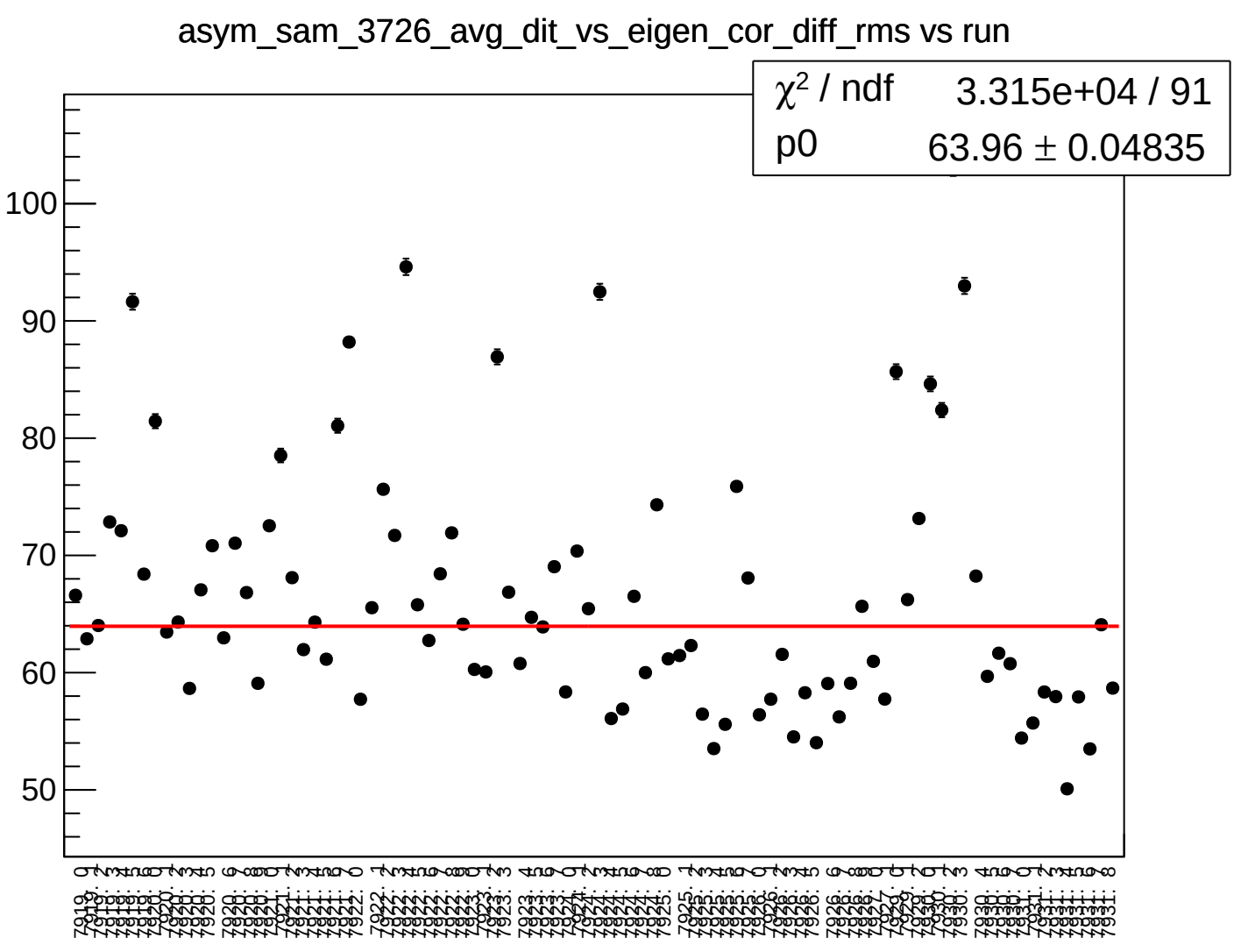

asym_sam_3726_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 100.4 / 91
p0 −7.428e−13 ± 4.453e−13
0.0025
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 92
Mean −1101
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.0006703
Std Dev 1.045
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

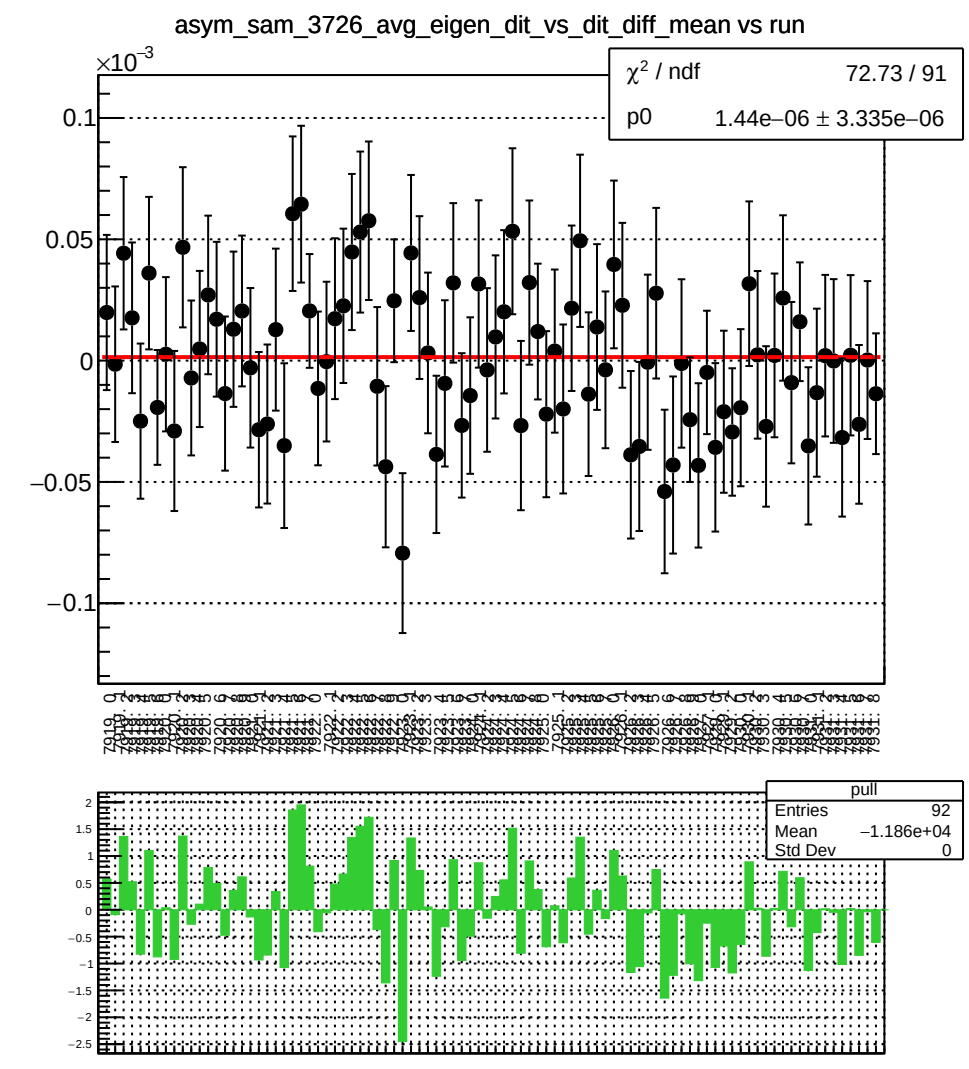

asym_sam_3726_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.486e+05 / 91
p0 3.044e−10 ± 3.149e−13
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

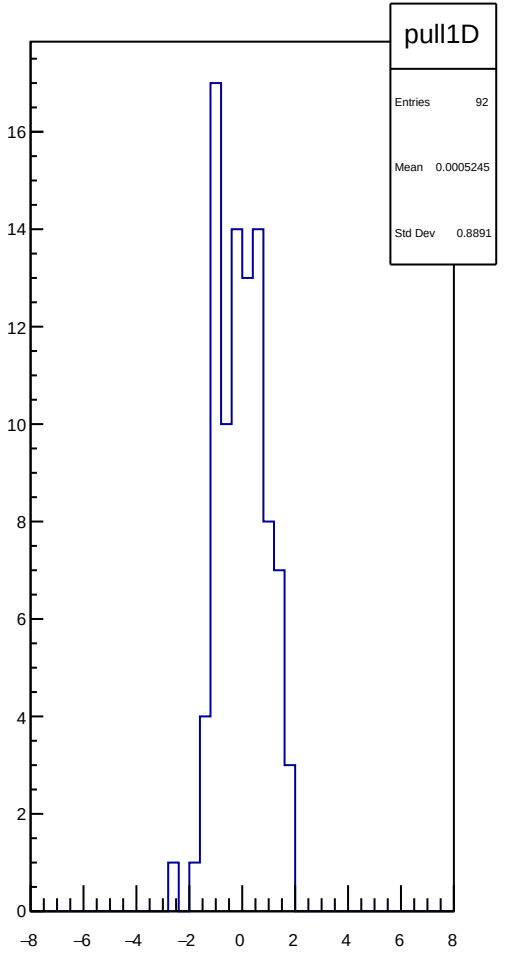

asym_sam_3726_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 85.96 / 91
p0 0.003345 ± 0.06838
pull
Entries 92
Mean −36.49
Std Dev 0
pull1D
Entries 92
Mean −0.01057
Std Dev 0.9666

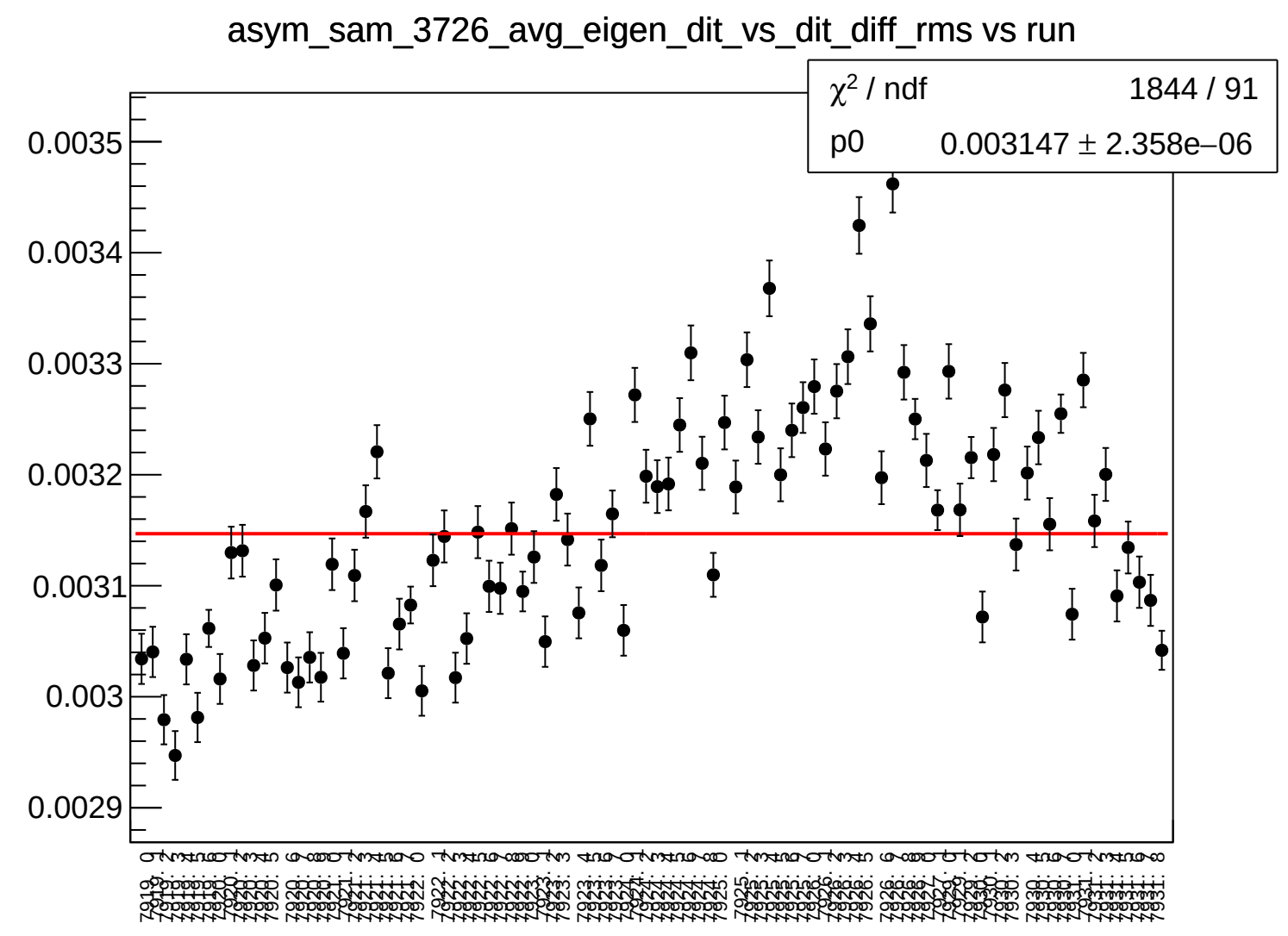

asym_sam_3726_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.315e+04 / 91
p0 63.96 ± 0.04835
100
90
80
70
60
50

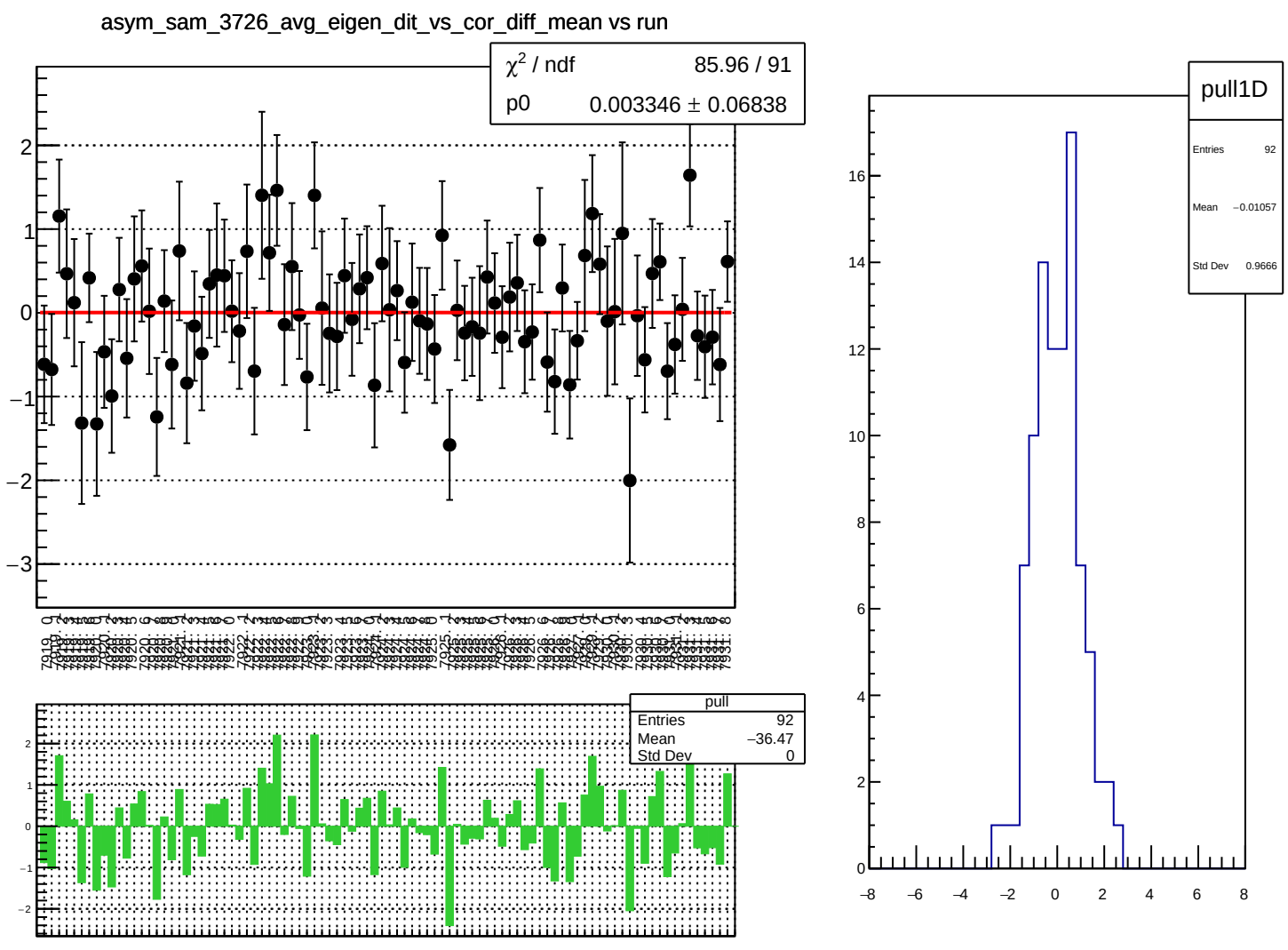

asym_sam_3726_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.96 / 91
p0 0.003345 ± 0.06838
pull
Entries 92
Mean −36.5
Std Dev 0
pull1D
Entries 92
Mean −0.01057
Std Dev 0.9666

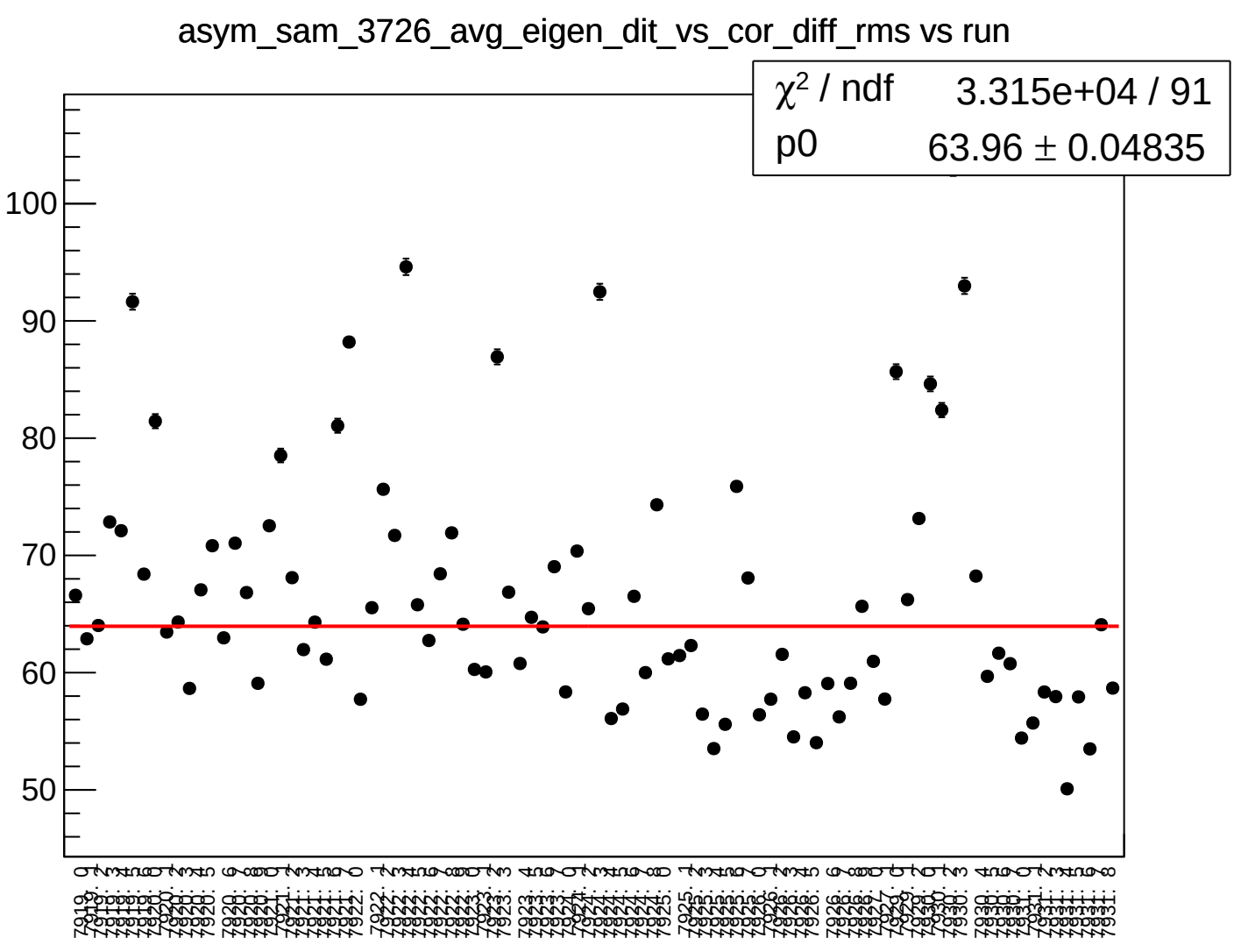

asym_sam_3726_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 3.315e+04 / 91
p0 63.96 ± 0.04835
100
90
80
70
60
50

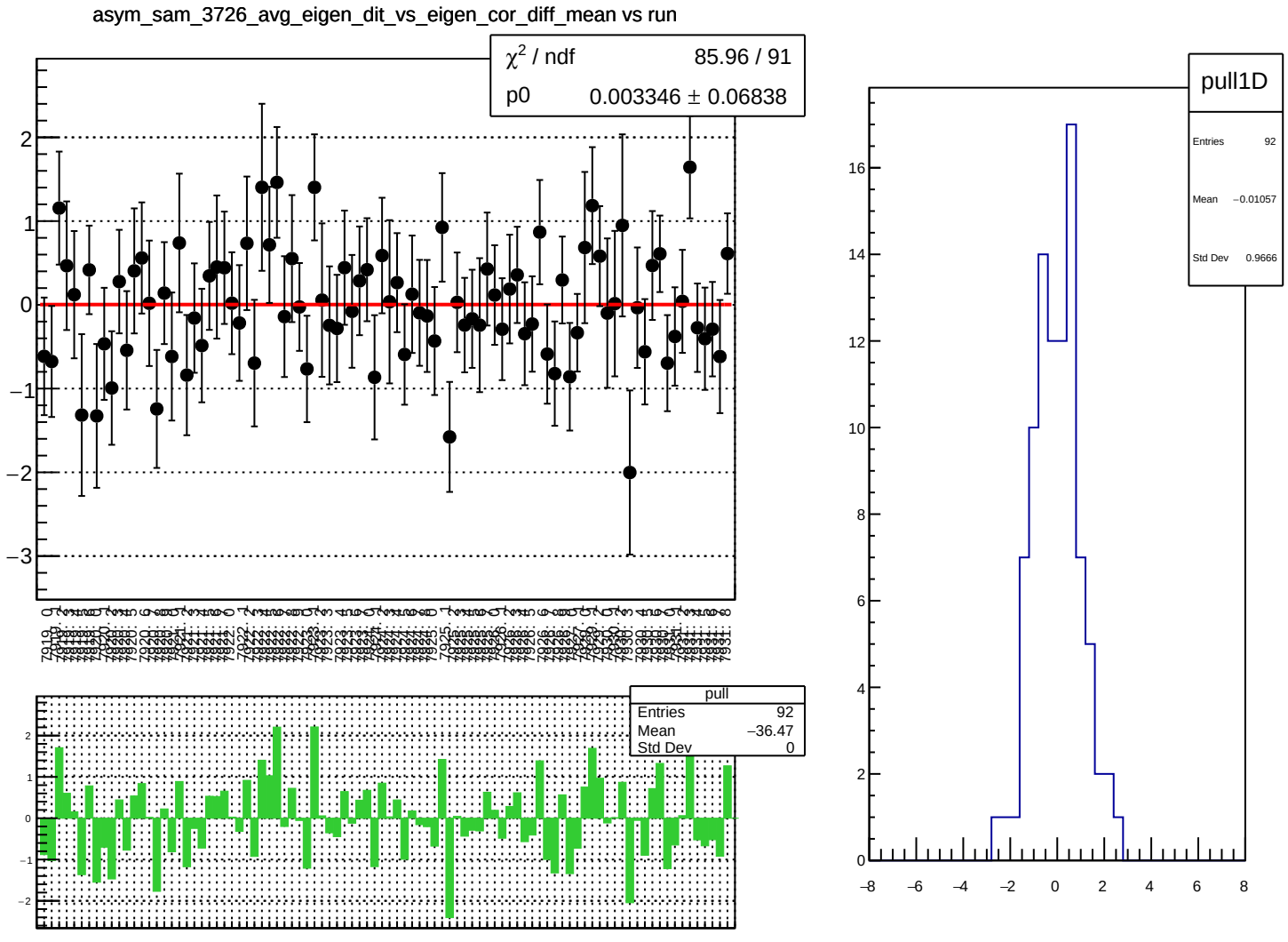

asym_sam_3726_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 72.73 / 91
p0 1.44e−06 ± 3.335e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 92
Mean −1.186e+04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

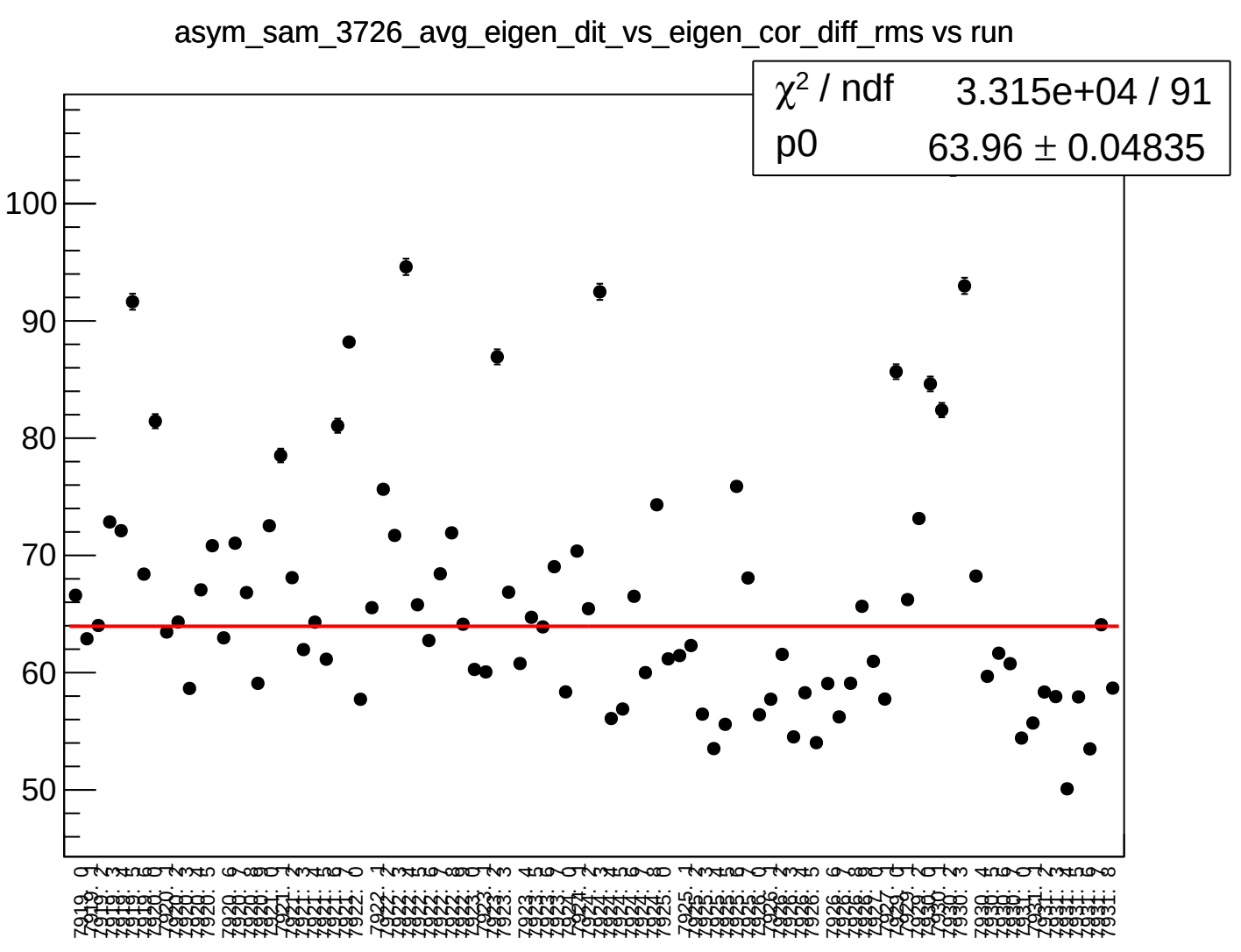

pull1D
Entries 92
Mean 0.0005245
Std Dev 0.8891
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

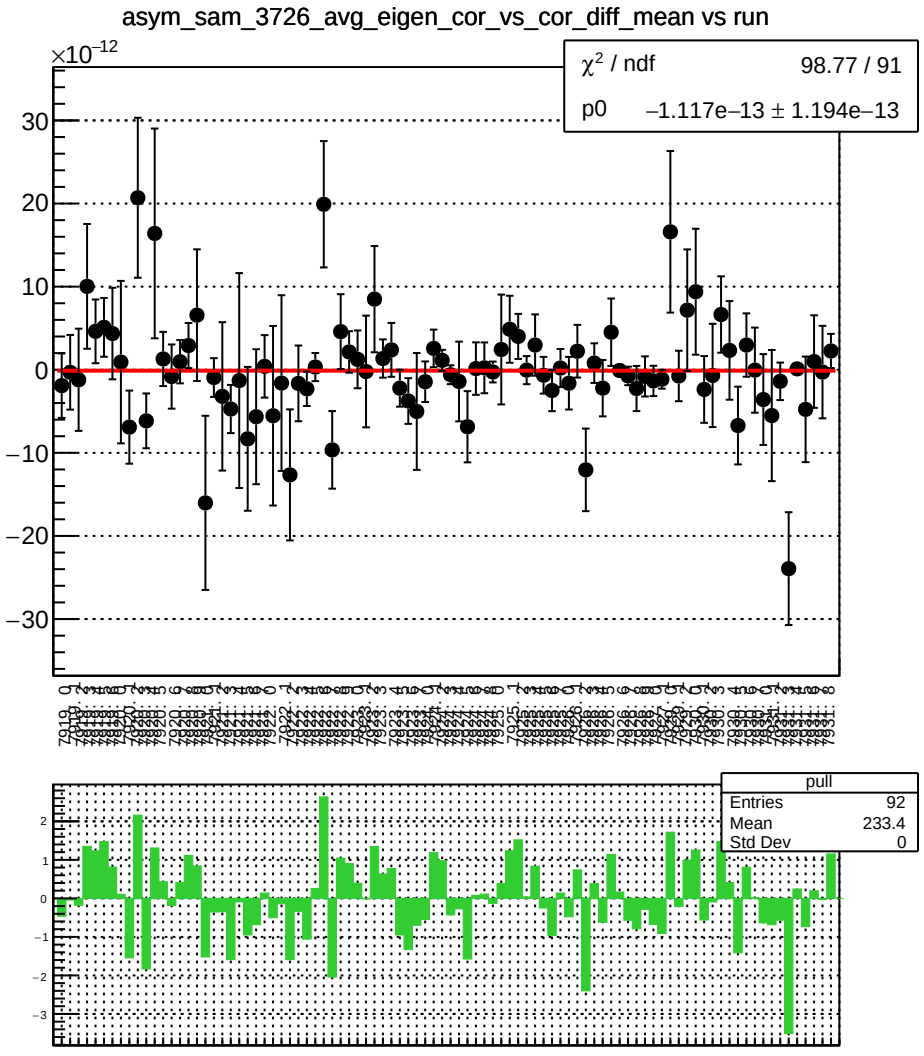

asym_sam_3726_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1844 / 91
p0 0.003147 ± 2.358e−06
0.0035
0.0034
0.0033
0.0032
0.0031
0.003
0.0029

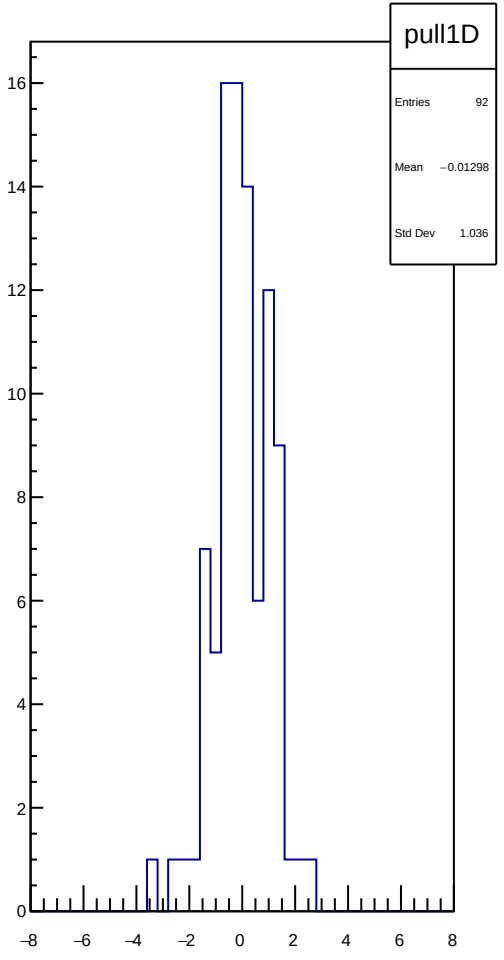

asym_sam_3726_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.96 / 91
p0 0.003346 ± 0.06838
pull
Entries 92
Mean −36.47
Std Dev 0
pull1D
Entries 92
Mean −0.01057
Std Dev 0.9666

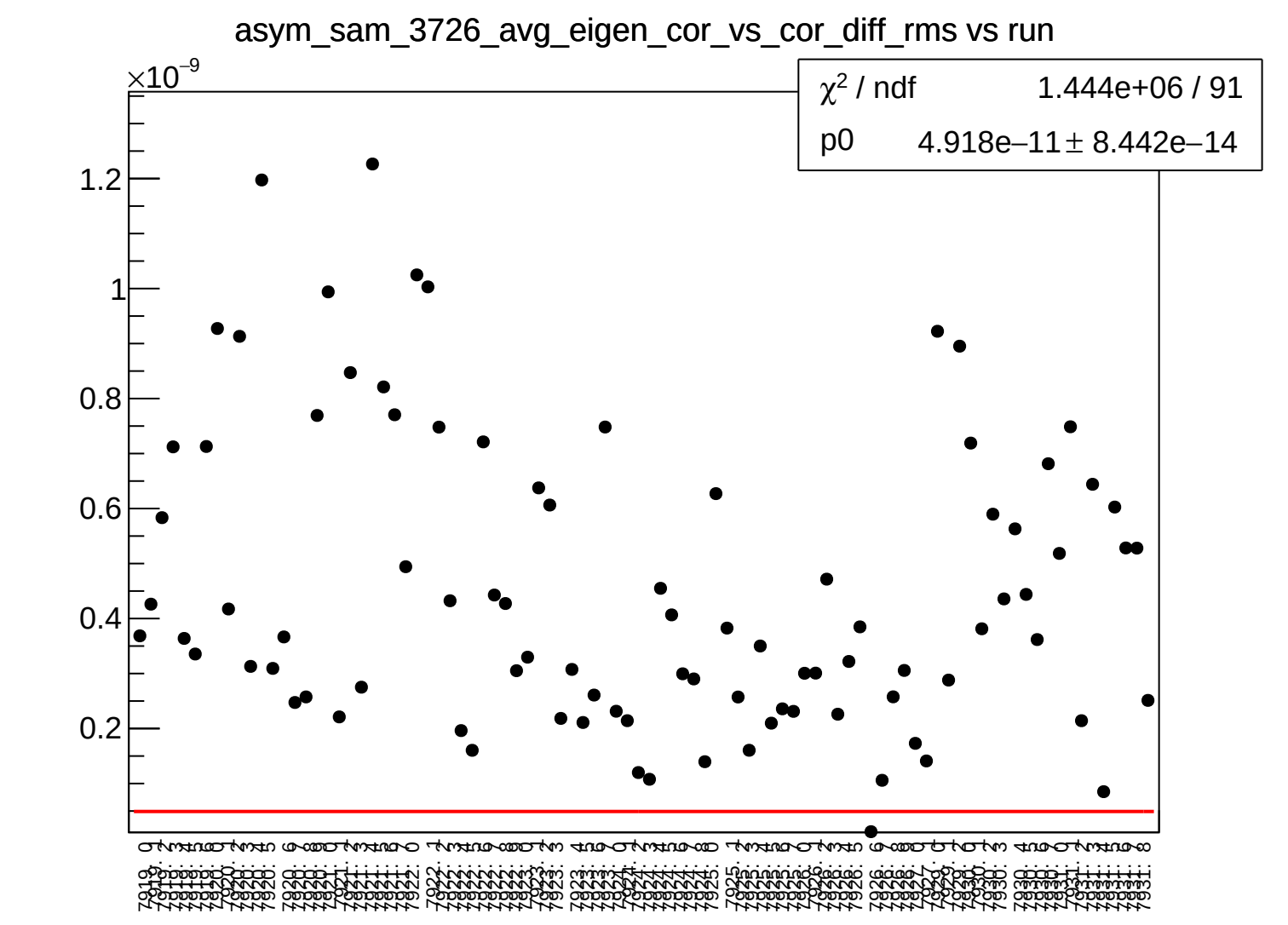

asym_sam_3726_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.315e+04 / 91
p0 63.96 ± 0.04835
100
90
80
70
60
50

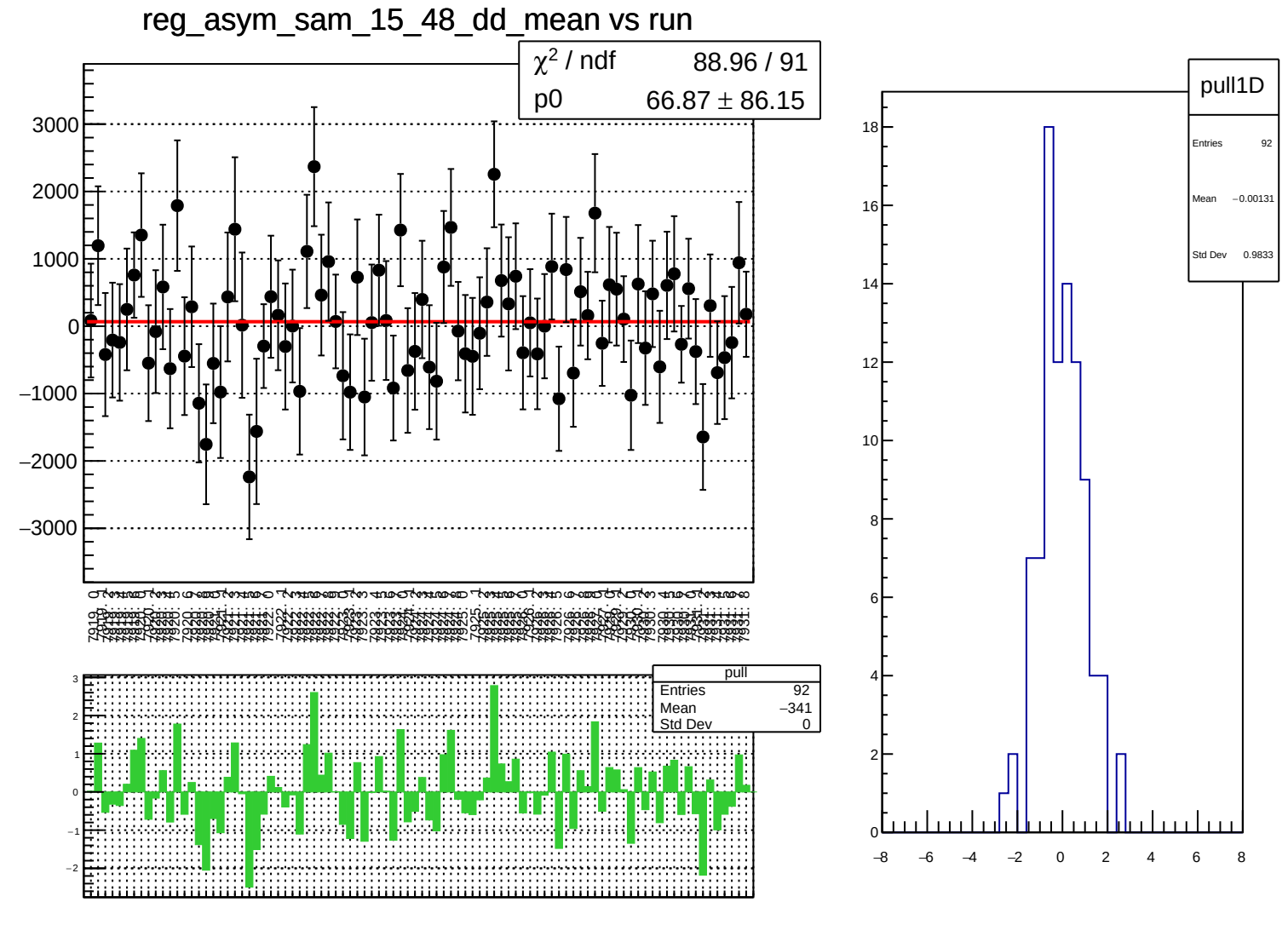

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.96 / 91
p0 0.003346 ± 0.06838
pull
Entries 92
Mean −36.47
Std Dev 0
pull1D
Entries 92
Mean −0.01057
Std Dev 0.9666

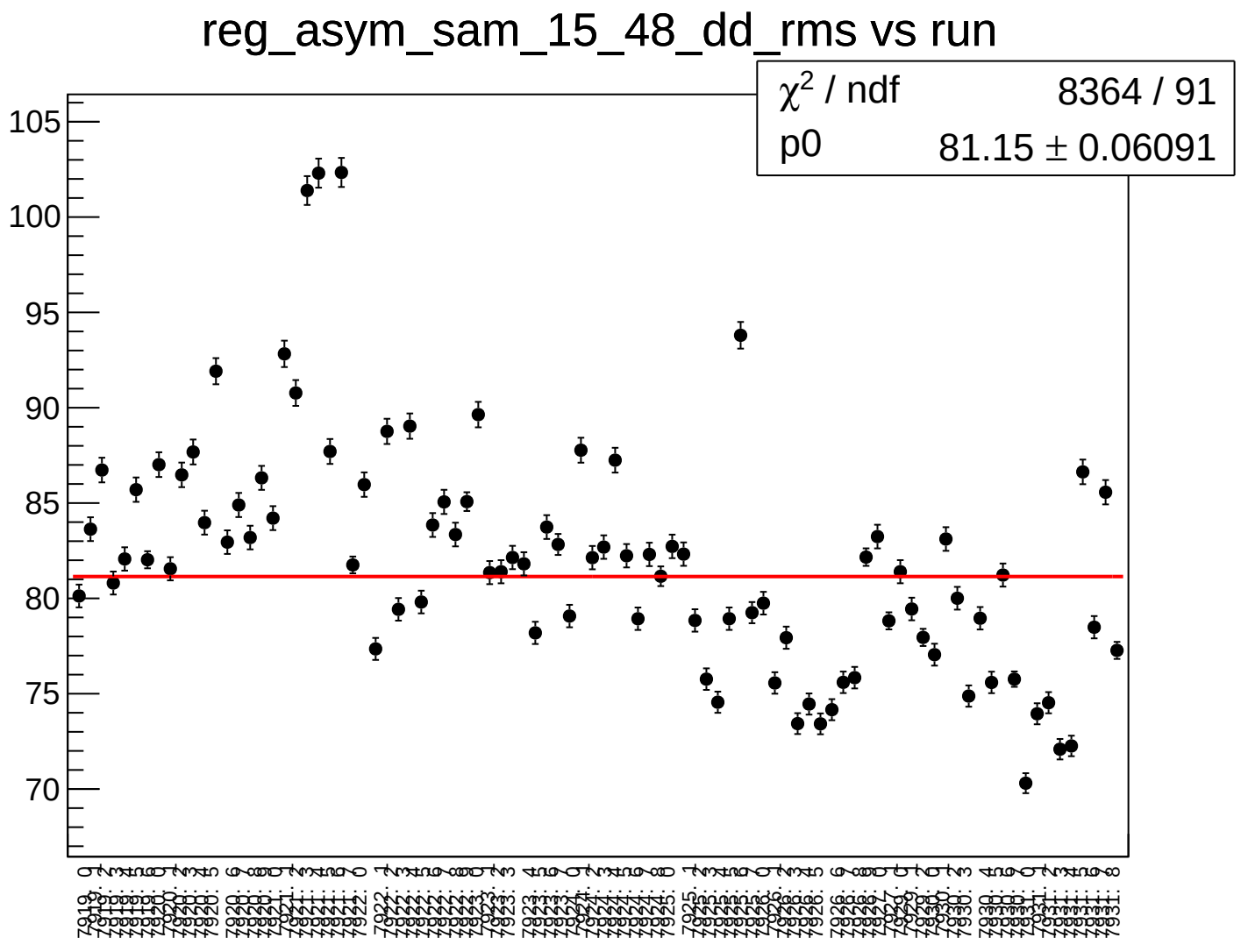

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.315e+04 / 91
p0 63.96 ± 0.04835
100
90
80
70
60
50

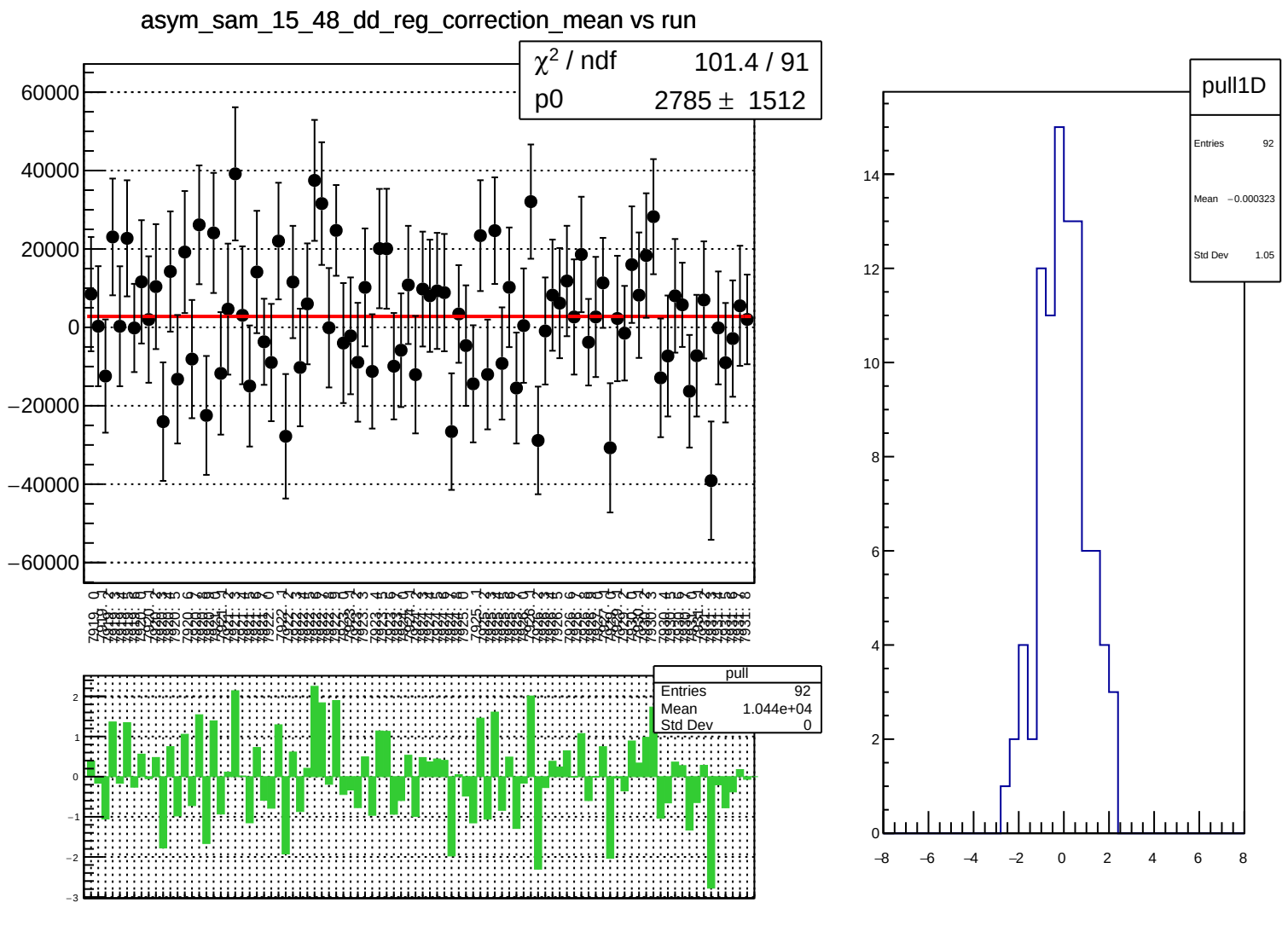

asym_sam_3726_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.77 / 91
p0 −1.117e−13 ± 1.194e−13
pull
Entries 92
Mean 233.4
Std Dev 0

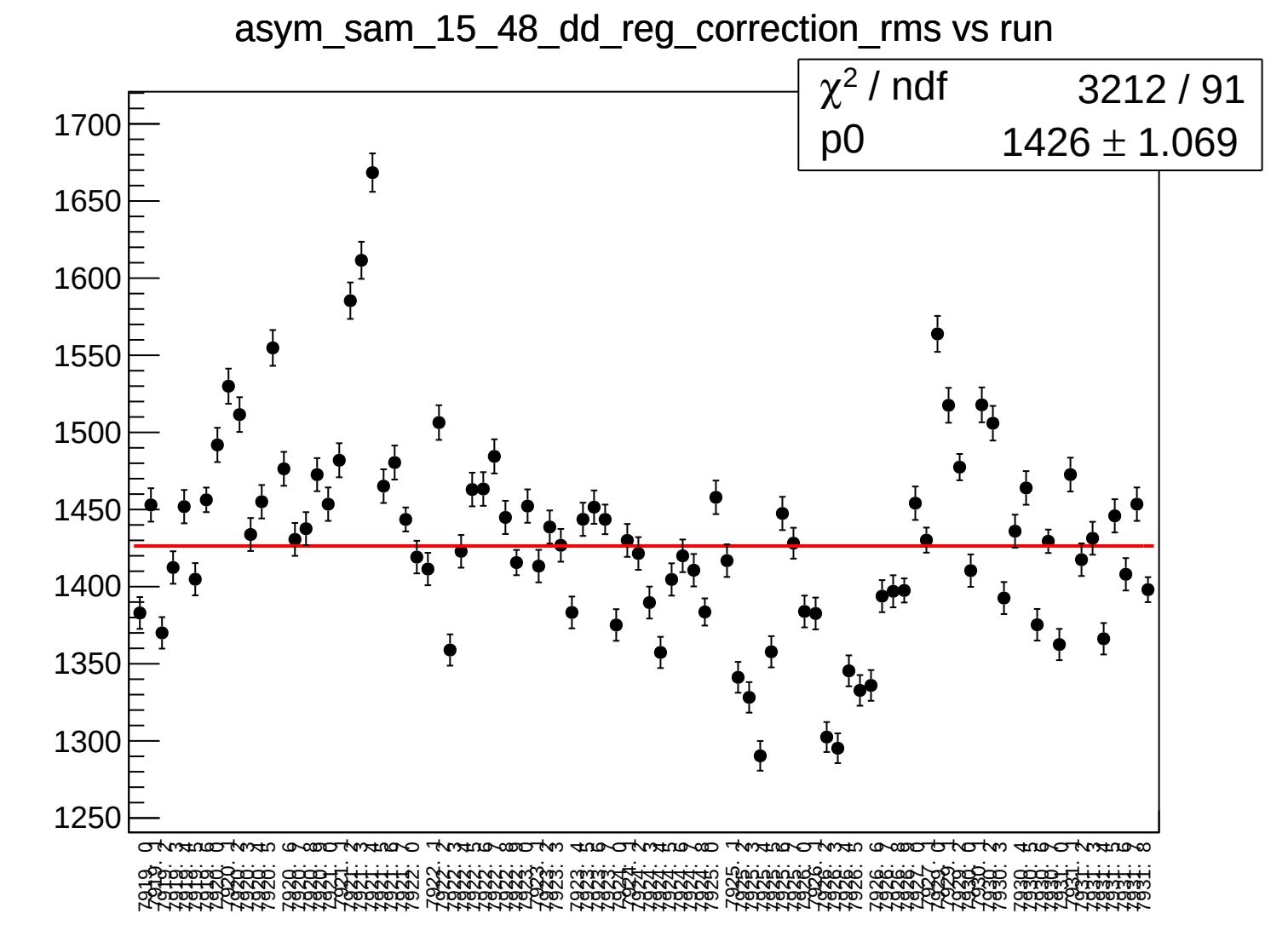

pull1D
Entries 92
Mean −0.01298
Std Dev 1.036

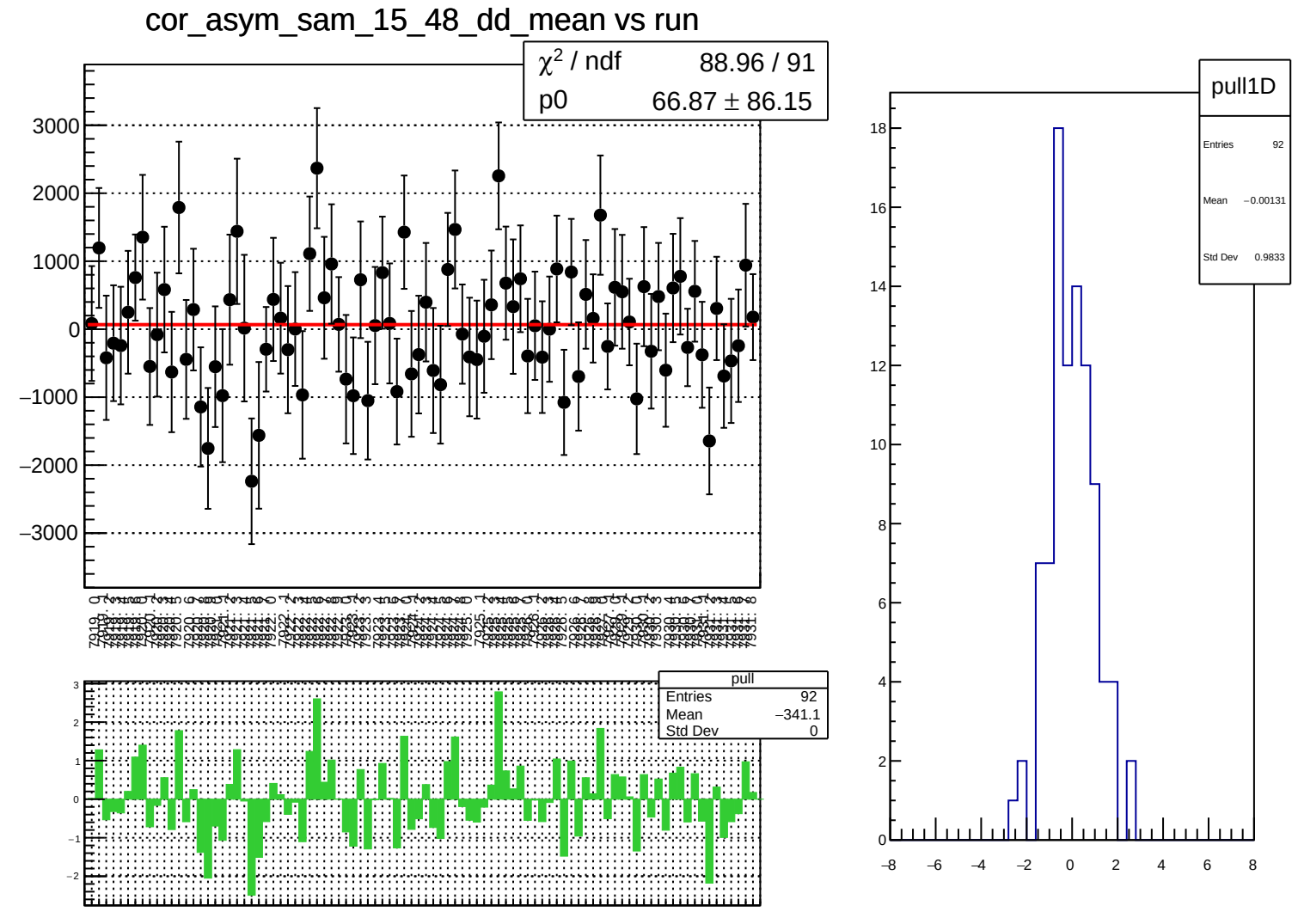

asym_sam_3726_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.444e+06 / 91
p0 4.918e−11 ± 8.442e−14
1.2
1
0.8
0.6
0.4
0.2

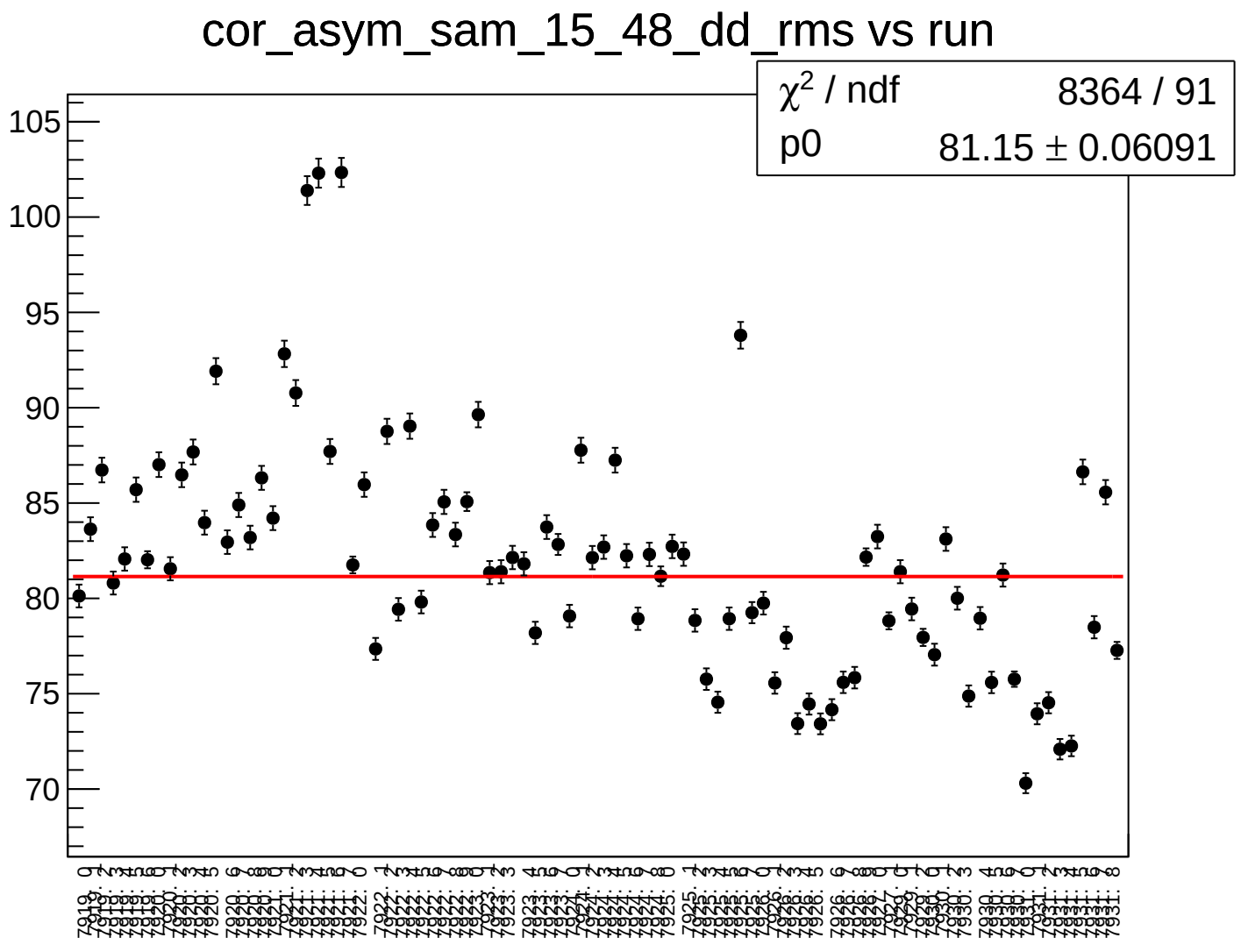

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 88.96 / 91
p0 66.87 ± 86.15
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 92
Mean −341
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.00131
Std Dev 0.9833
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

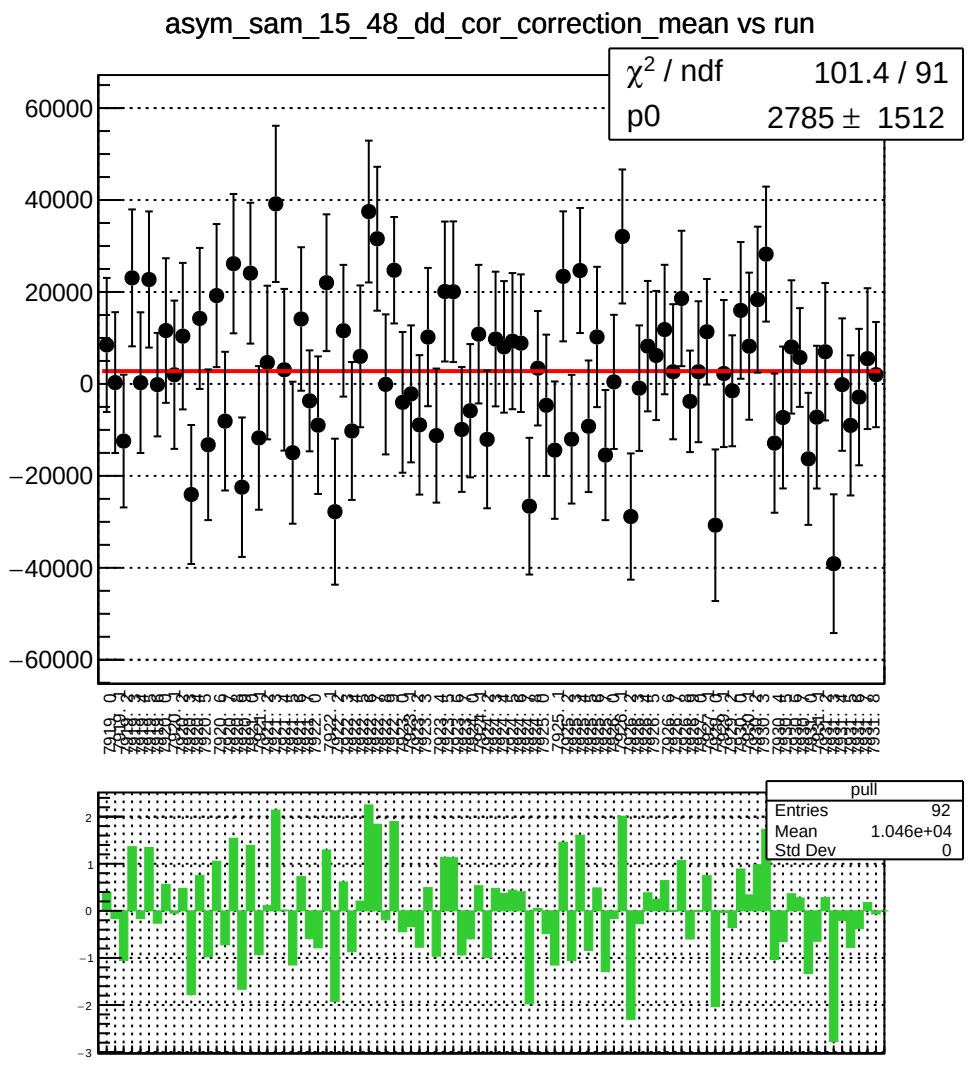

reg_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 8364 / 91
p0 81.15 ± 0.06091
105
100
95
90
85
80
75
70

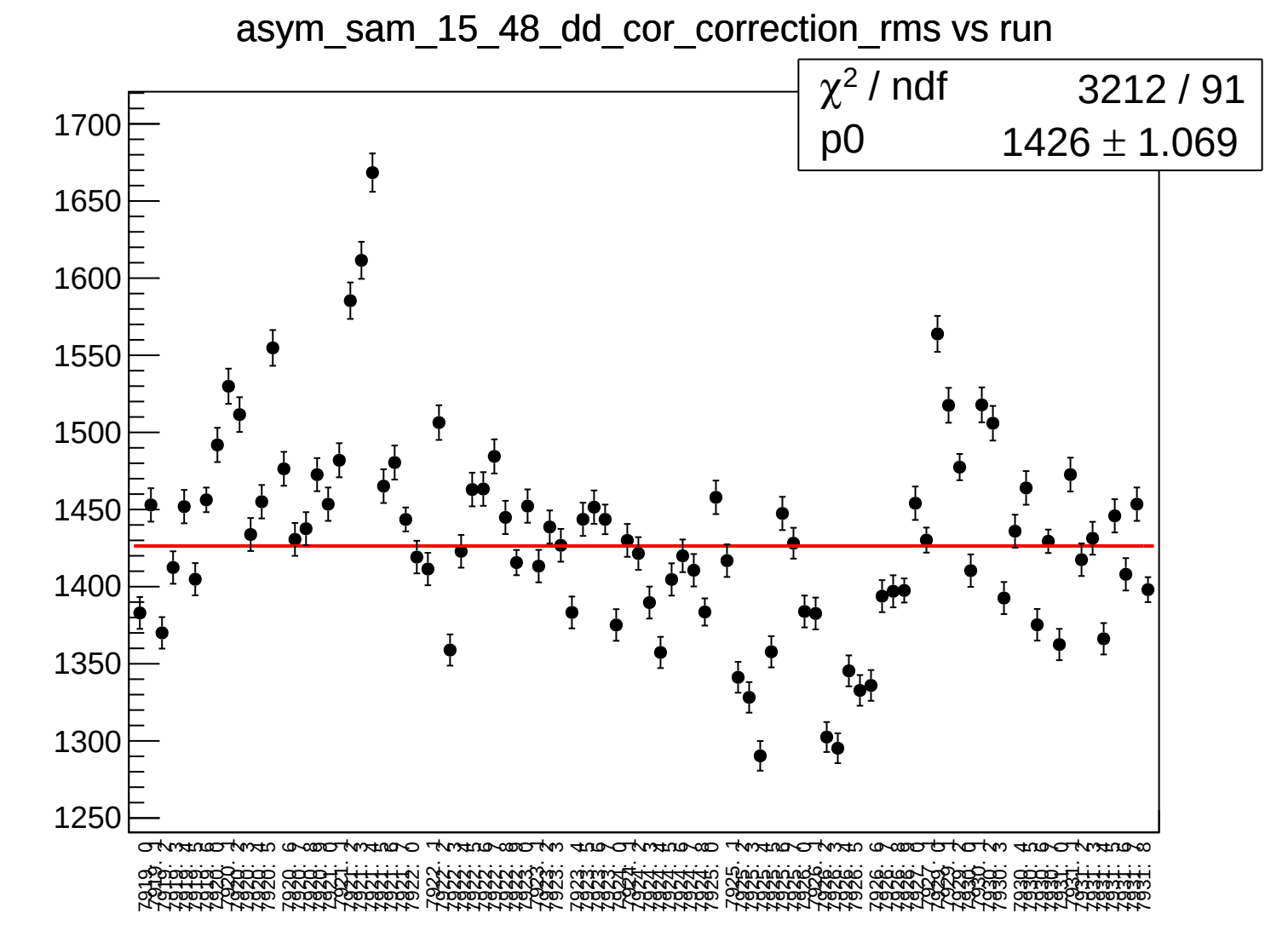

asym_sam_15_48_dd_reg_correction_mean vs run
χ² / ndf 101.4 / 91
p0 2785 ± 1512
pull
Entries 92
Mean 1.044e+04
Std Dev 0
pull1D
Entries 92
Mean −0.000323
Std Dev 1.05

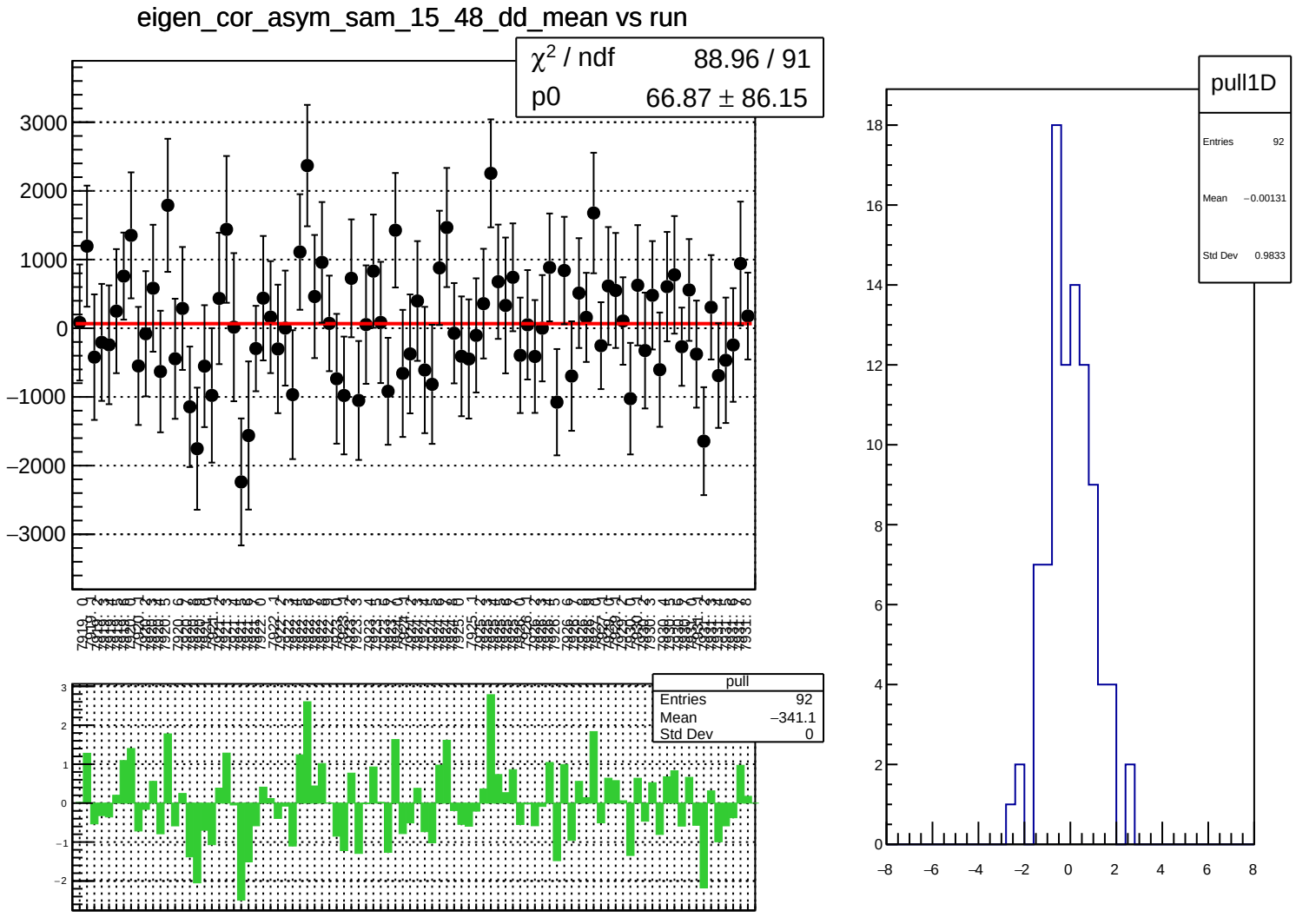

asym_sam_15_48_dd_reg_correction_rms vs run
χ^2 / ndf 3212 / 91
p0 1426 ± 1.069
1700
1650
1600
1550
1500
1450
1400
1350
1300
1250

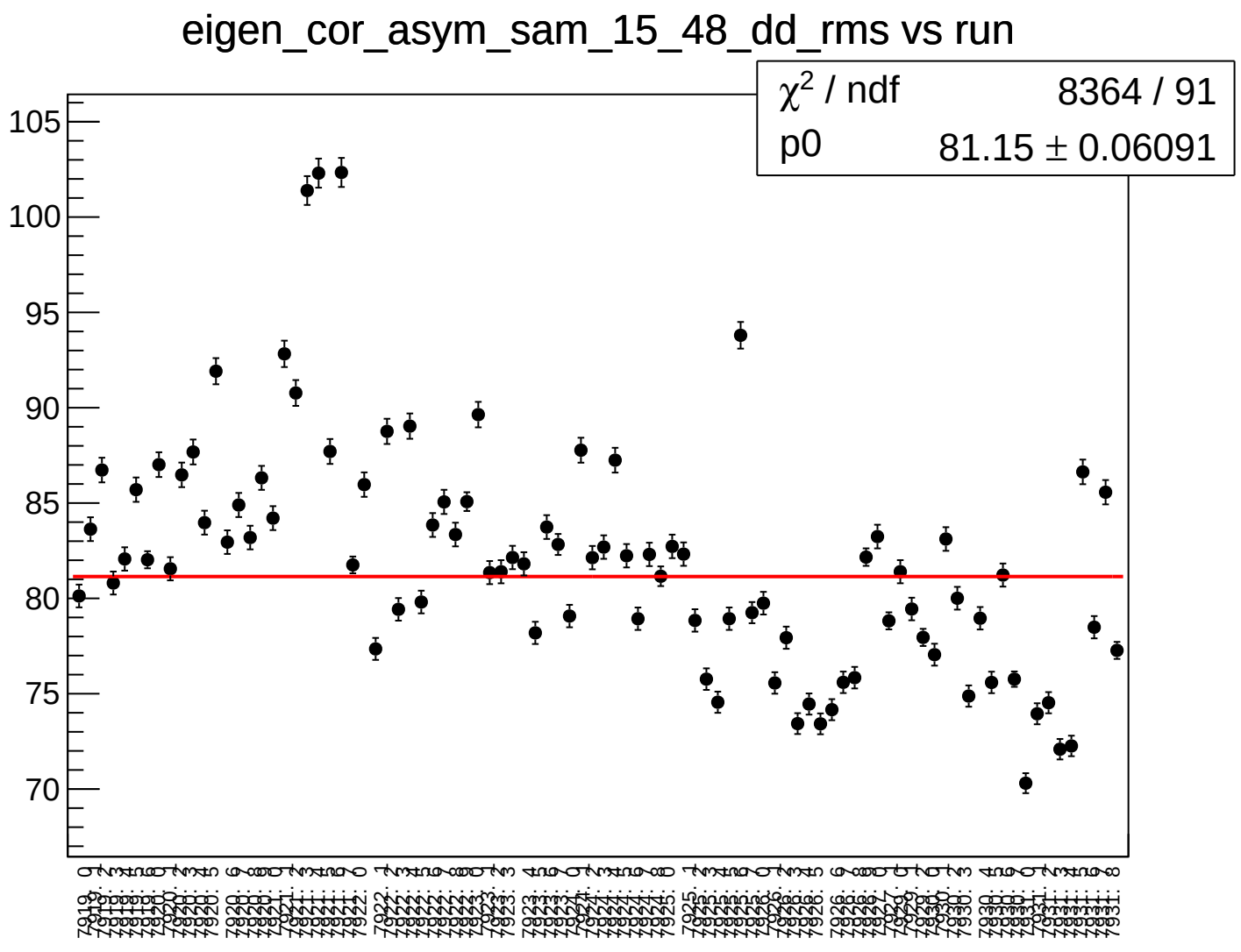

cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 88.96 / 91
p0 66.87 ± 86.15
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 92
Mean −341.1
Std Dev 0
pull1D
Entries 92
Mean −0.00131
Std Dev 0.9833
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

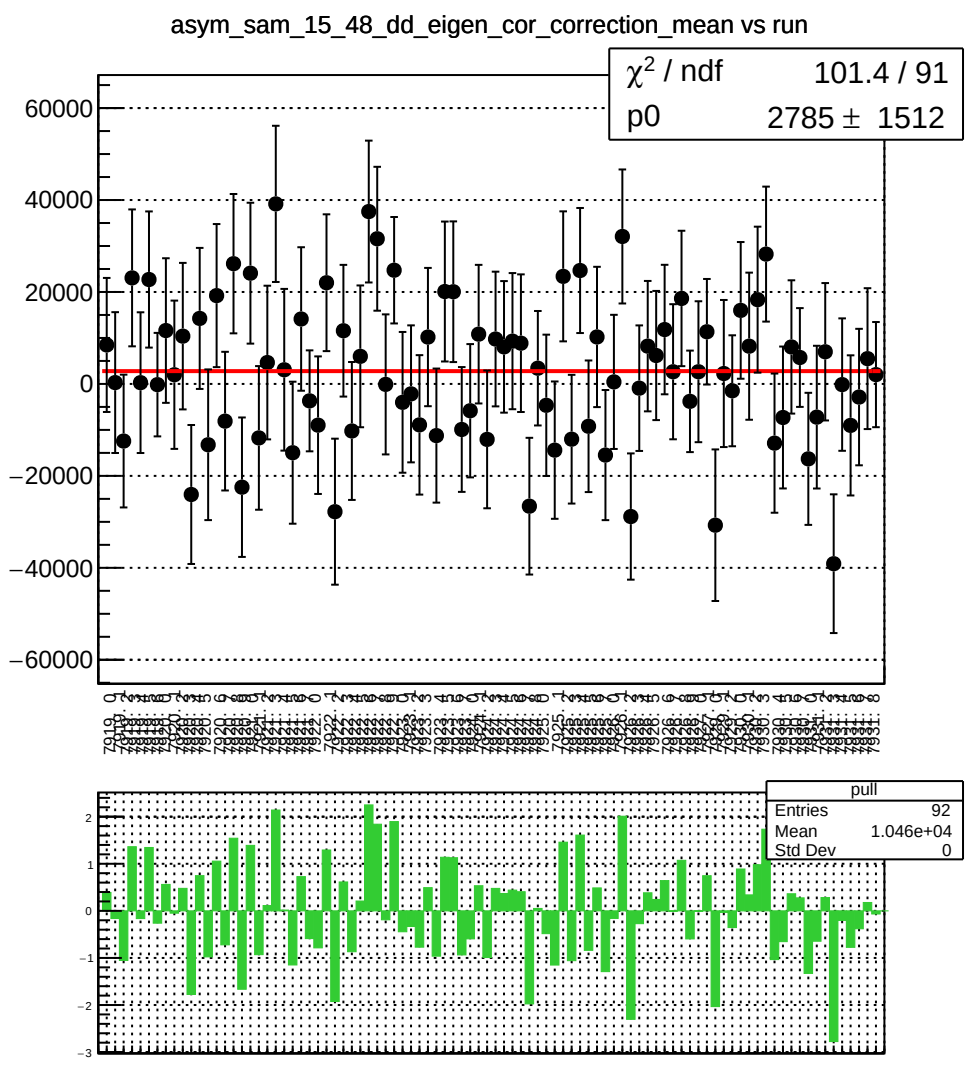

cor_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 8364 / 91
p0 81.15 ± 0.06091
105
100
95
90
85
80
75
70

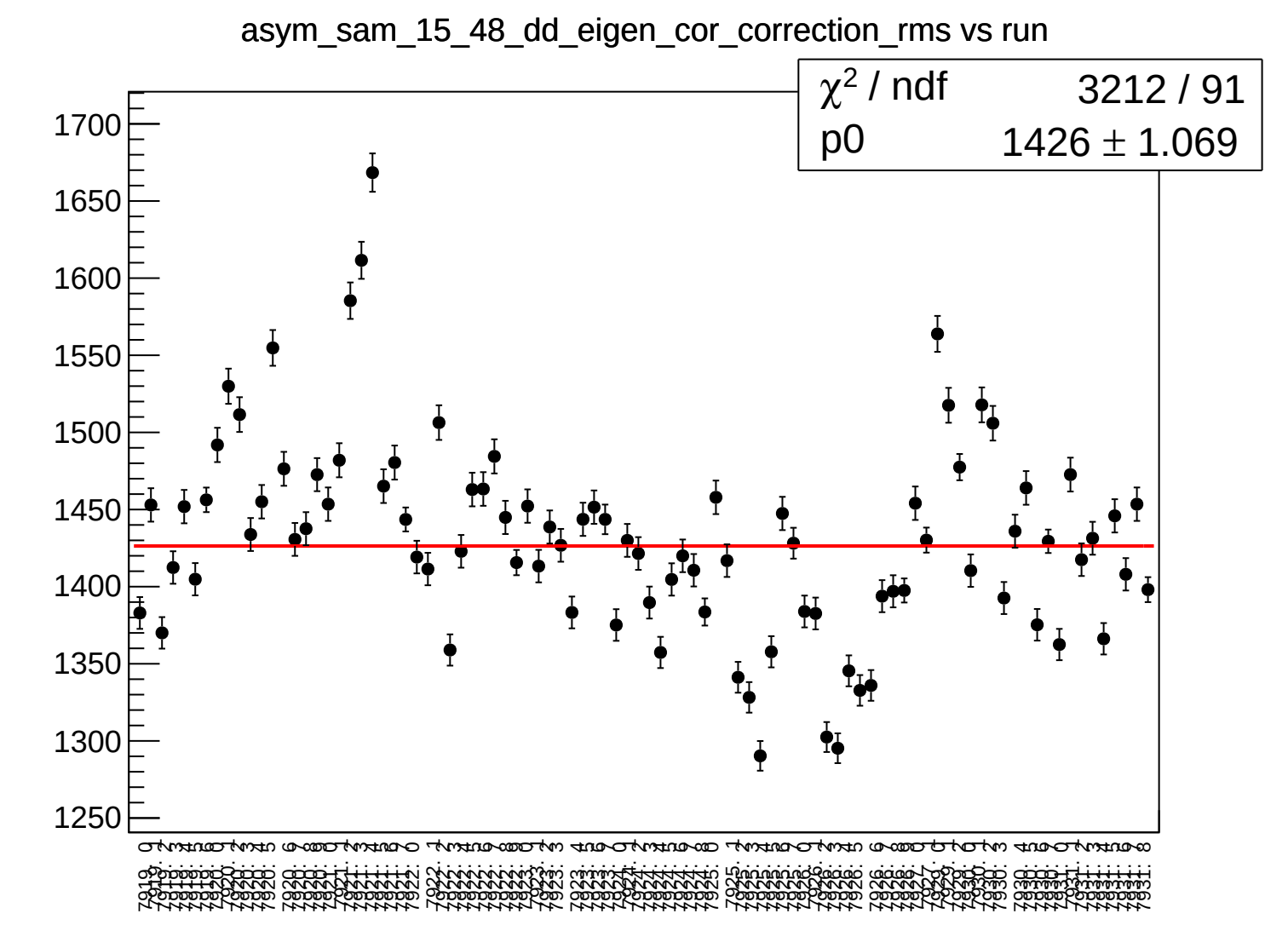

asym_sam_15_48_dd_cor_correction_mean vs run
χ² / ndf 101.4 / 91
p0 2785 ± 1512
pull
Entries 92
Mean 1.046e+04
Std Dev 0
pull1D
Entries 92
Mean −0.0003224
Std Dev 1.05

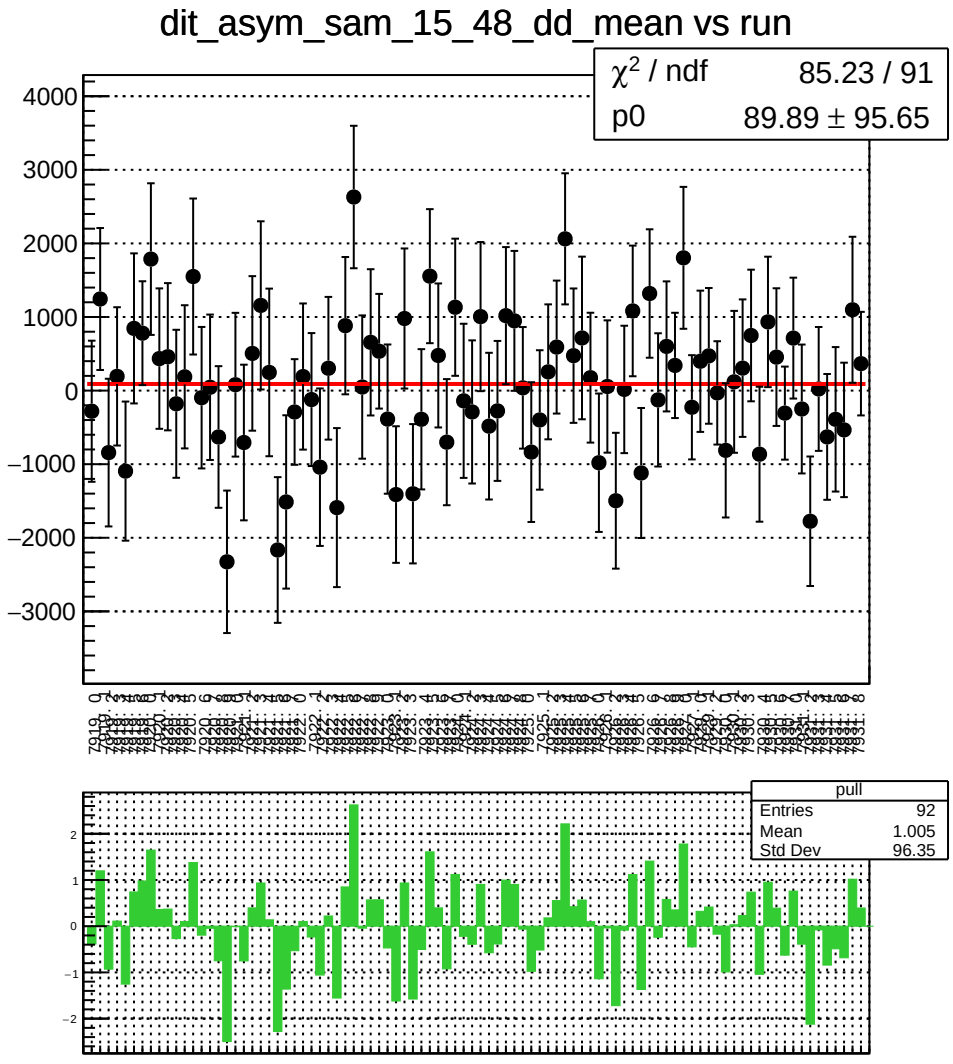

asym_sam_15_48_dd_cor_correction_rms vs run
χ^2 / ndf 3212 / 91
p0 1426 ± 1.069
1700
1650
1600
1550
1500
1450
1400
1350
1300
1250

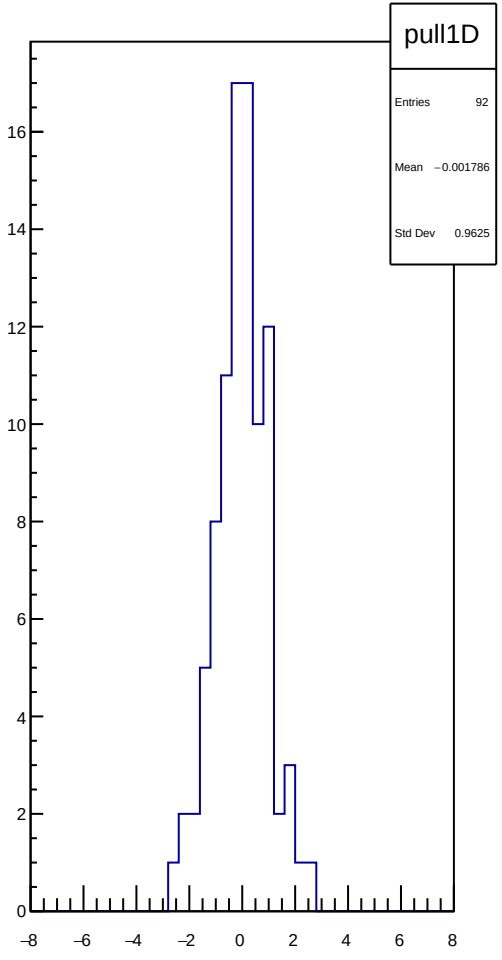

eigen_cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 88.96 / 91
p0 66.87 ± 86.15
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 92
Mean −341.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.00131
Std Dev 0.9833
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

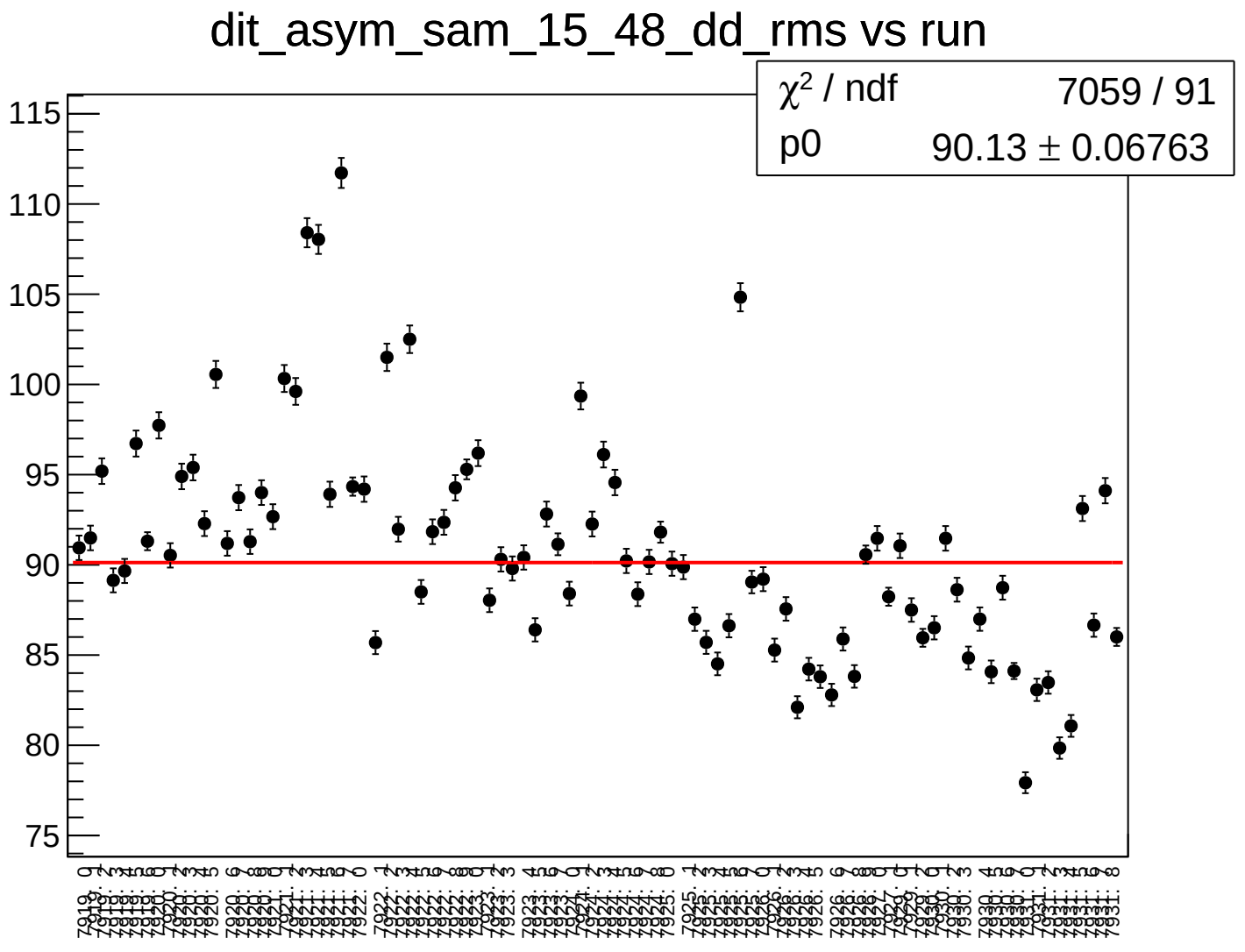

eigen_cor_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 8364 / 91
p0 81.15 ± 0.06091
105
100
95
90
85
80
75
70

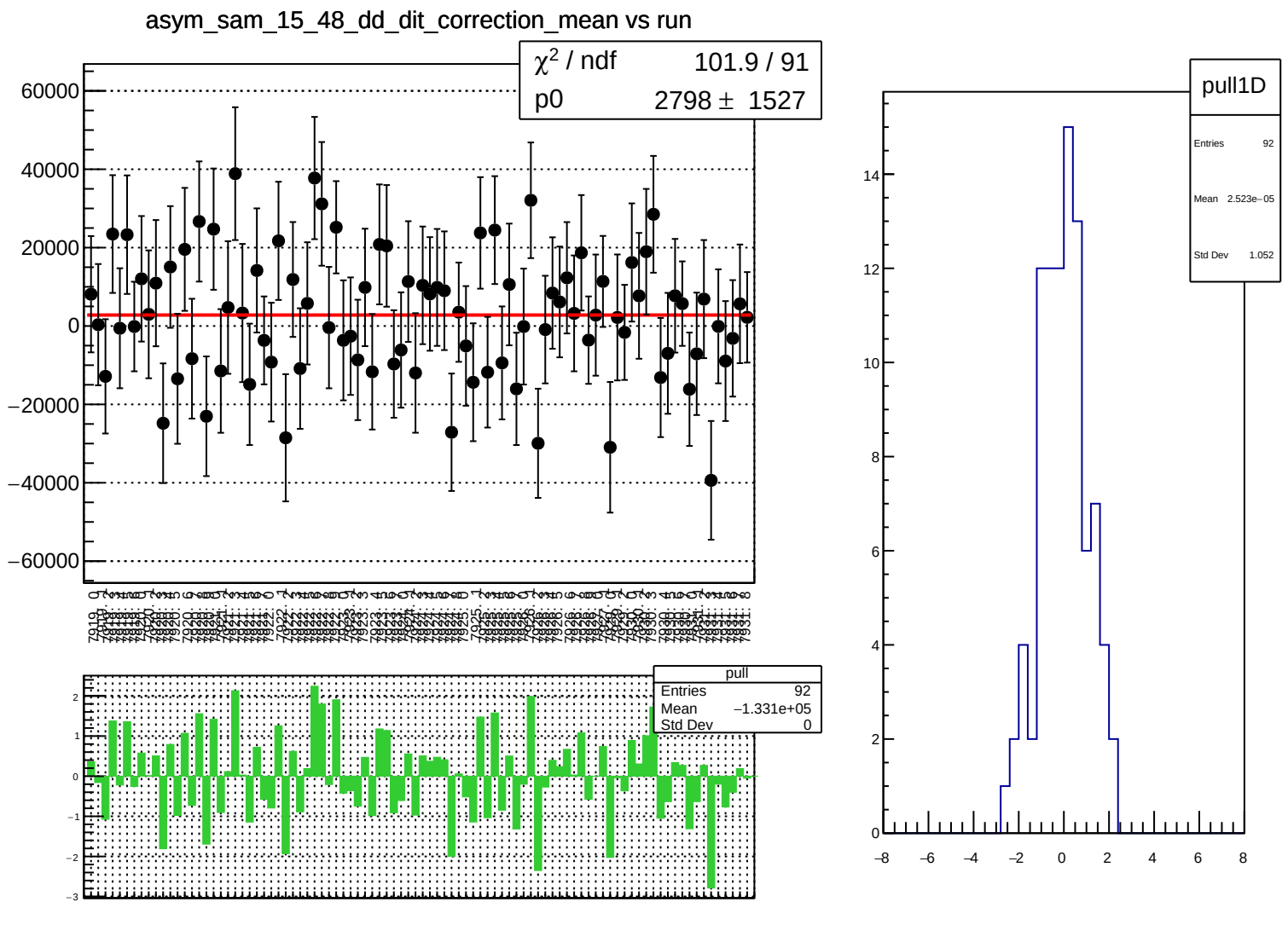

asym_sam_15_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 101.4 / 91
p0 2785 ± 1512
pull
Entries 92
Mean 1.046e+04
Std Dev 0
pull1D
Entries 92
Mean −0.0003224
Std Dev 1.05

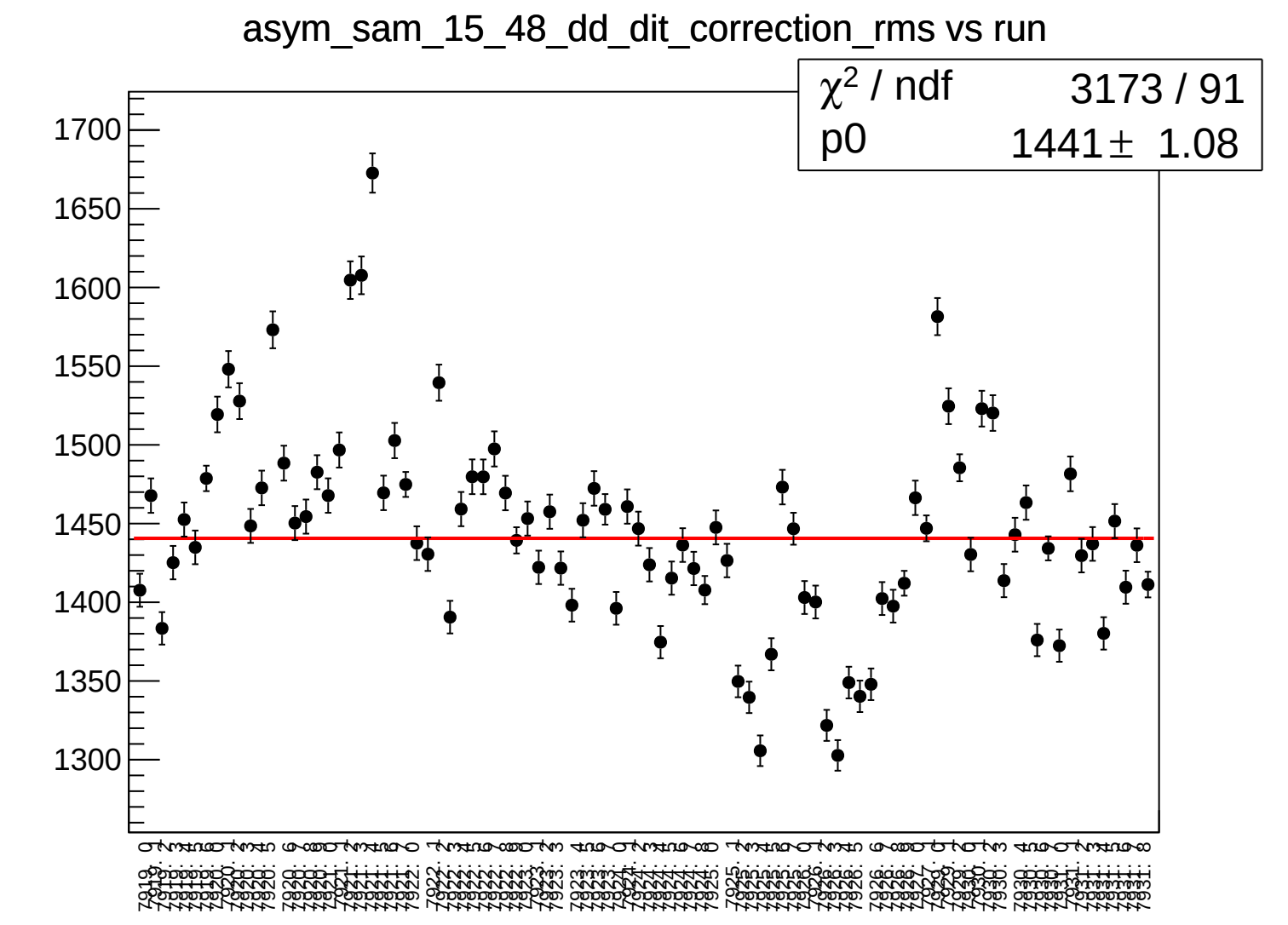

asym_sam_15_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 3212 / 91
p0 1426 ± 1.069
1700
1650
1600
1550
1500
1450
1400
1350
1300
1250

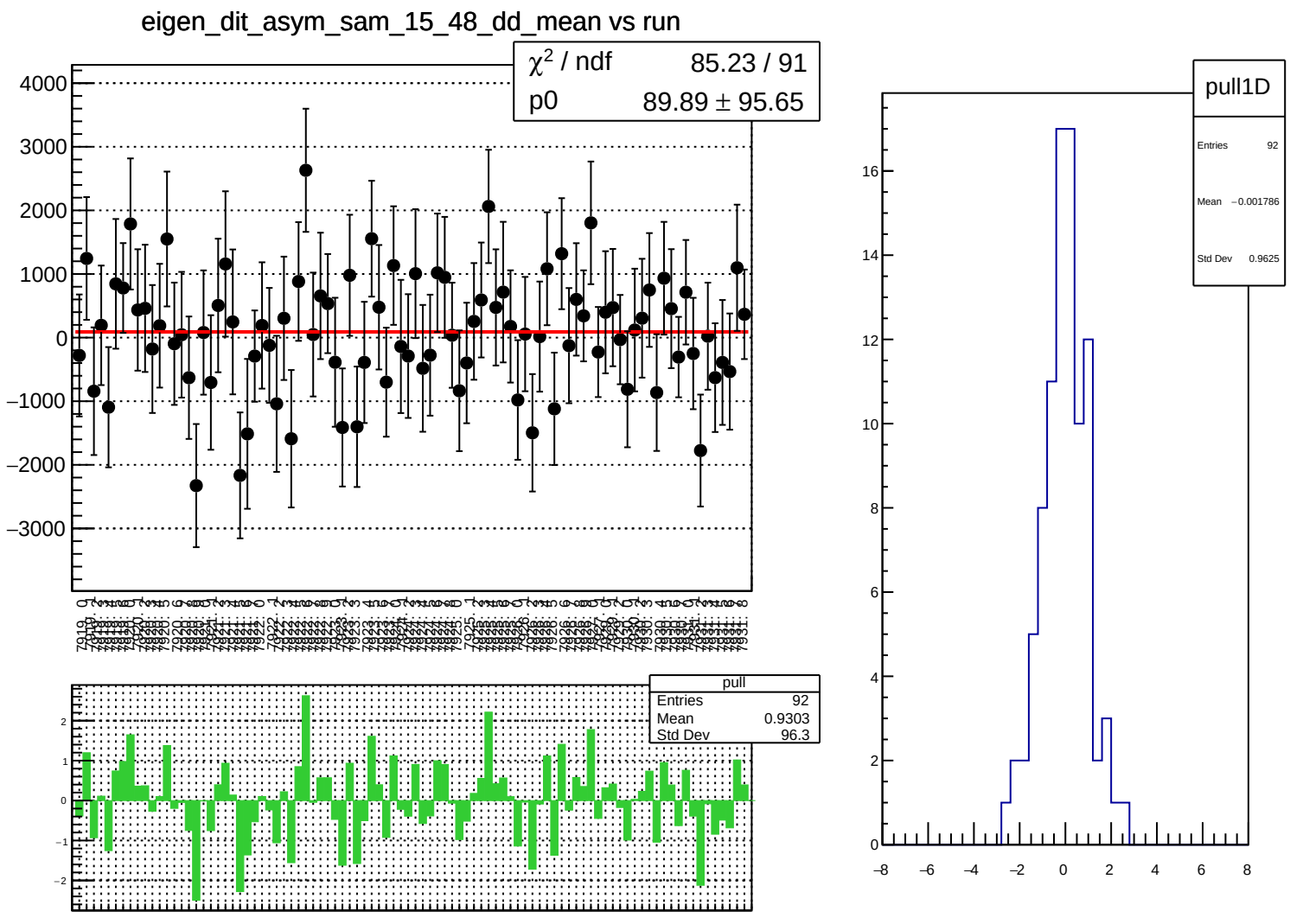

dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 85.23 / 91
p0 89.89 ± 95.65
pull
Entries 92
Mean 1.005
Std Dev 96.35

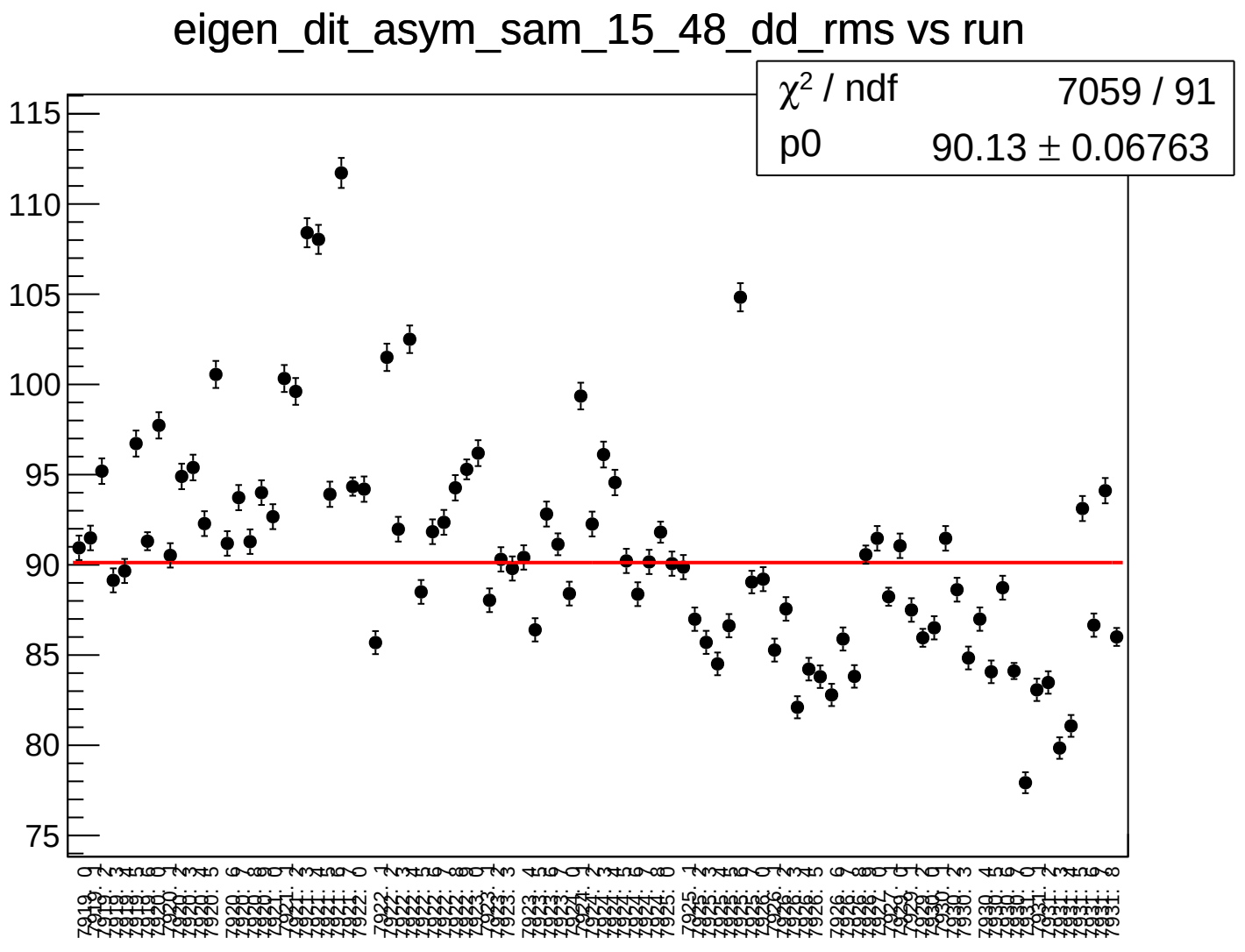

pull1D
Entries 92
Mean −0.001786
Std Dev 0.9625

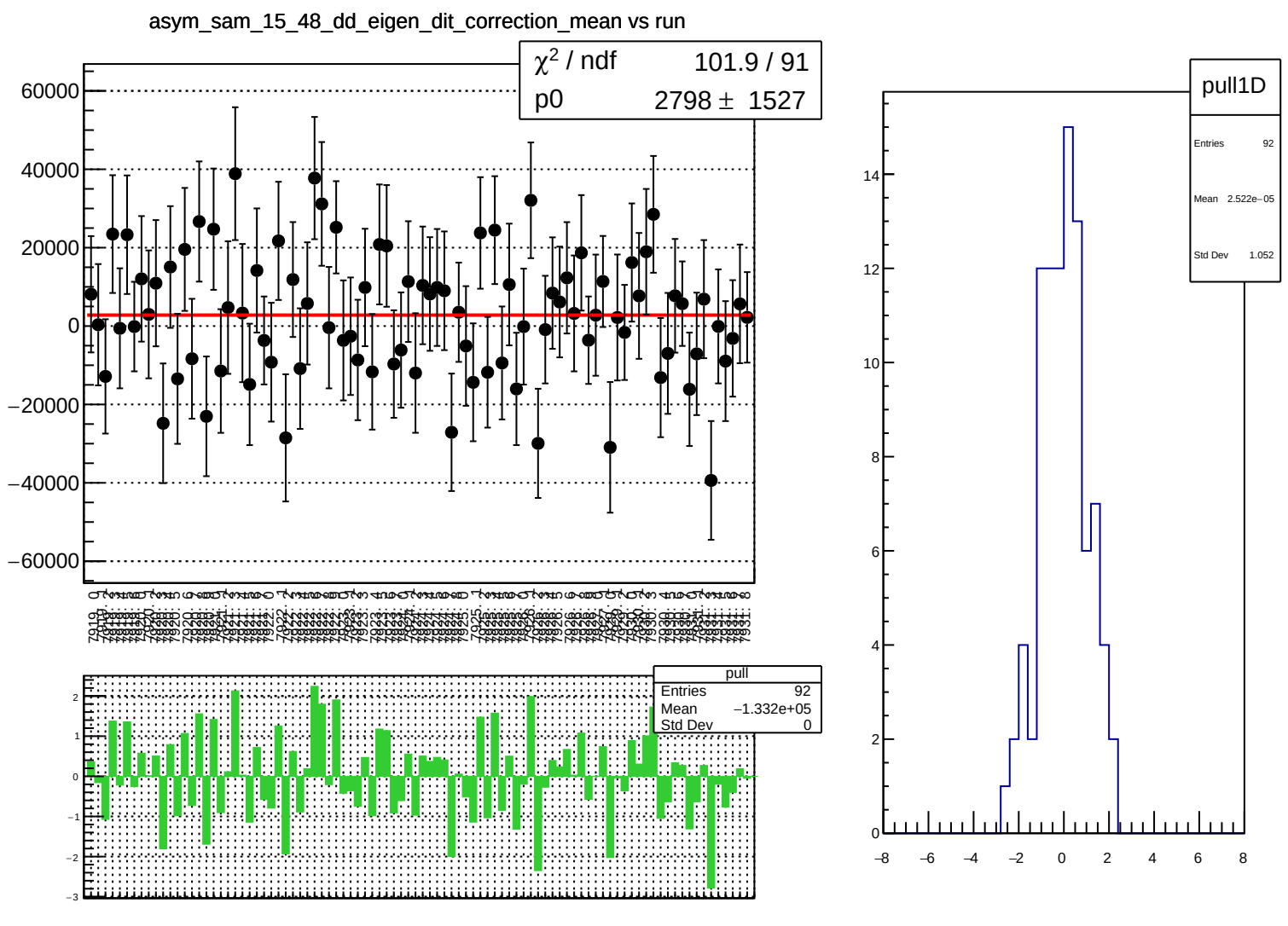

dit_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 7059 / 91
p0 90.13 ± 0.06763
115
110
105
100
95
90
85
80
75

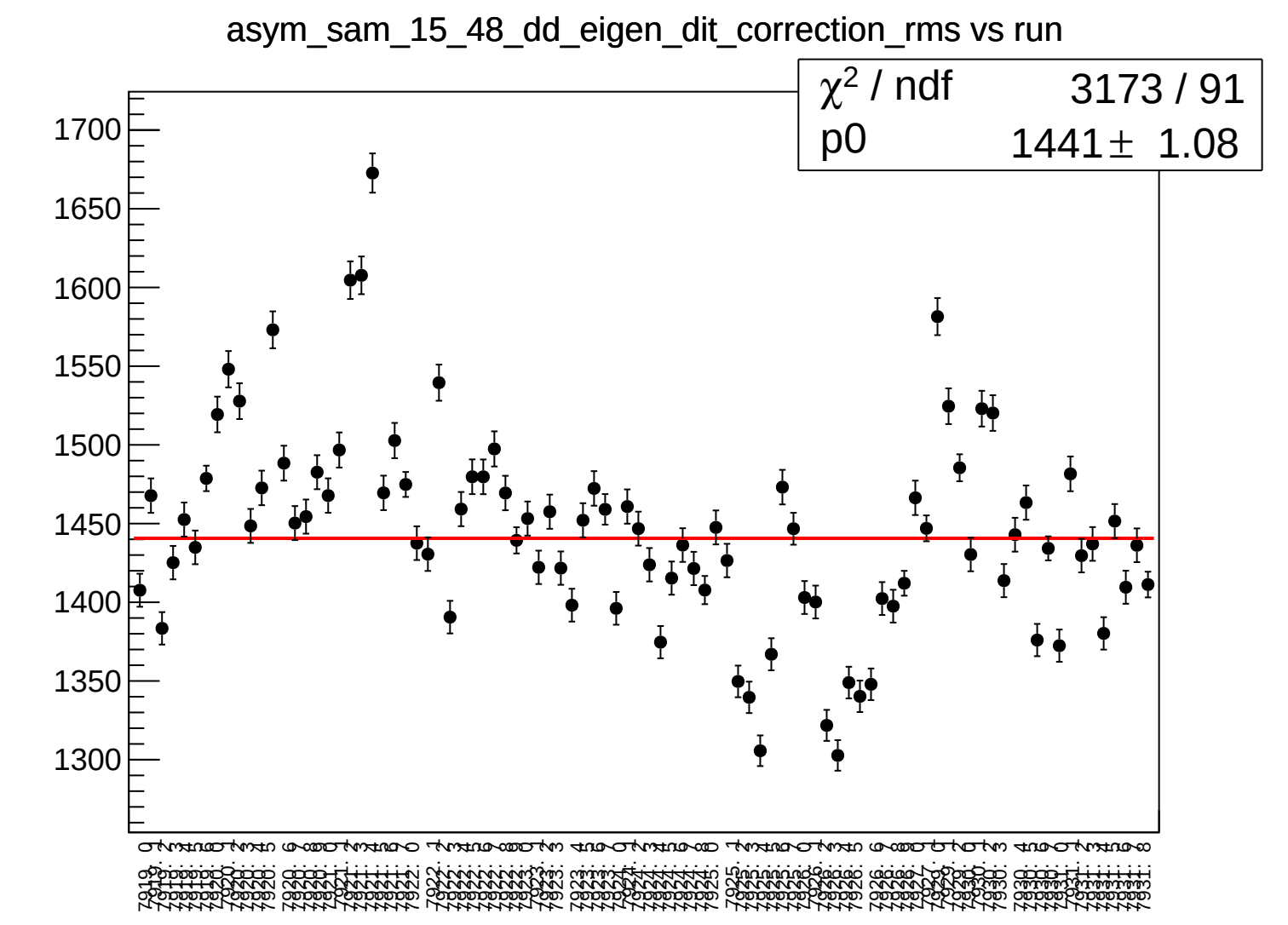

asym_sam_15_48_dd_dit_correction_mean vs run
χ² / ndf 101.9 / 91
p0 2798 ± 1527
pull
Entries 92
Mean −1.331e+05
Std Dev 0
pull1D
Entries 92
Mean 2.523e−05
Std Dev 1.052

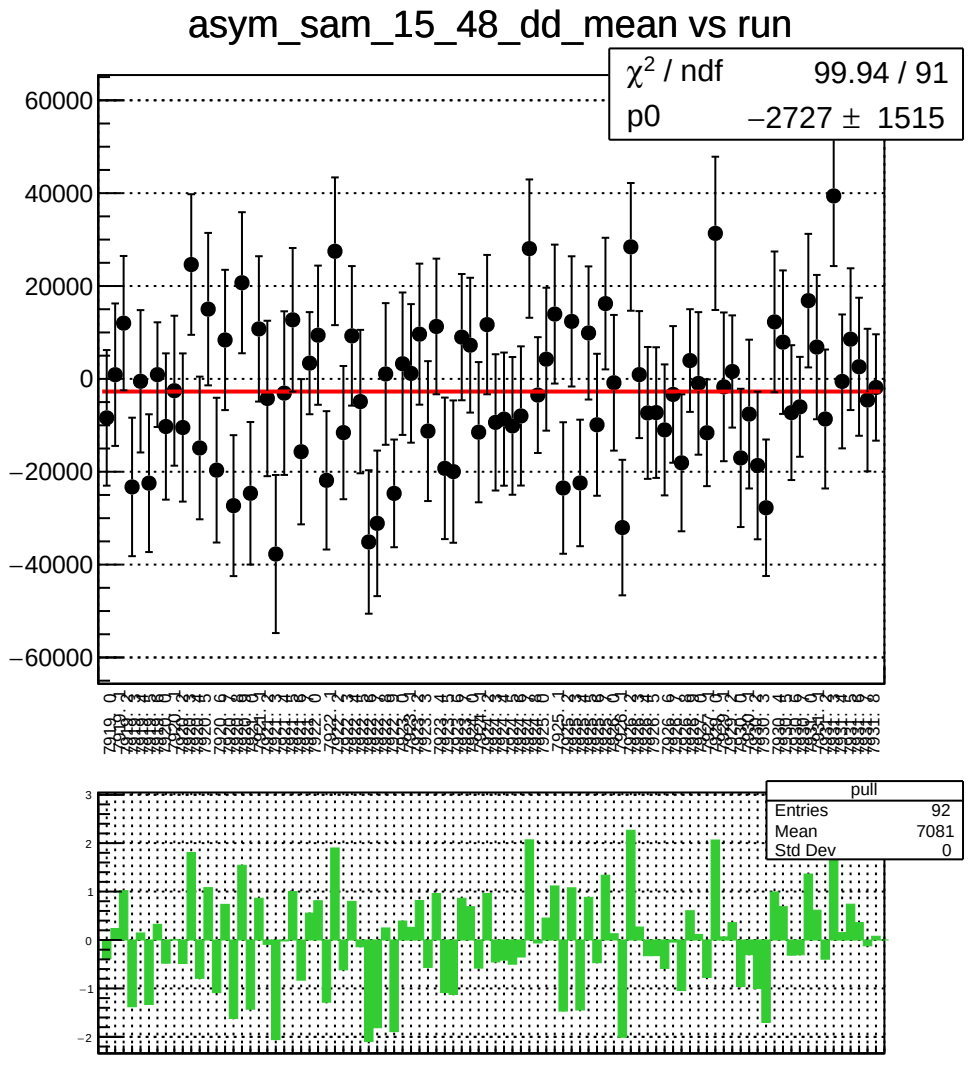

asym_sam_15_48_dd_dit_correction_rms vs run
χ² / ndf 3173 / 91
p0 1441 ± 1.08
1700
1650
1600
1550
1500
1450
1400
1350
1300

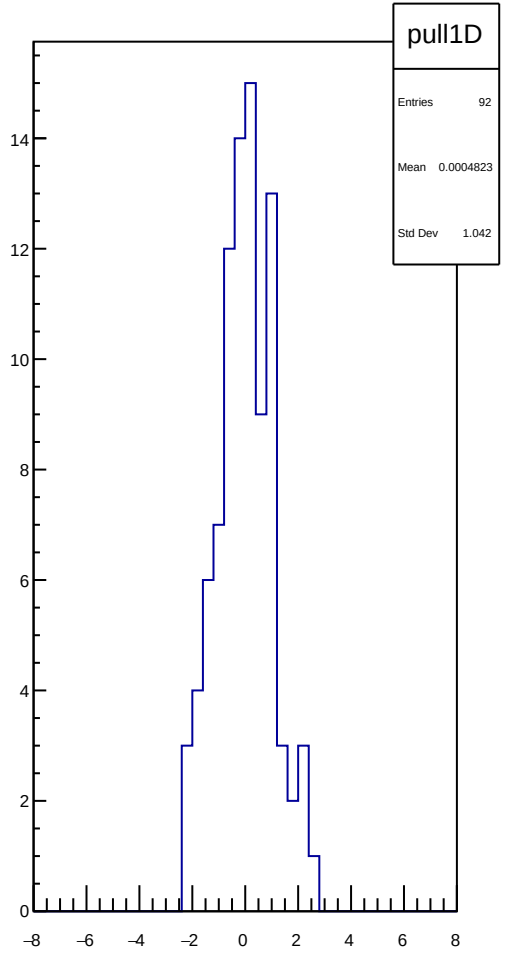

eigen_dit_asym_sam_15_48_dd_mean vs run
χ^2 / ndf 85.23 / 91
p0 89.89 ± 95.65
pull
Entries 92
Mean 0.9303
Std Dev 96.3
pull1D
Entries 92
Mean −0.001786
Std Dev 0.9625

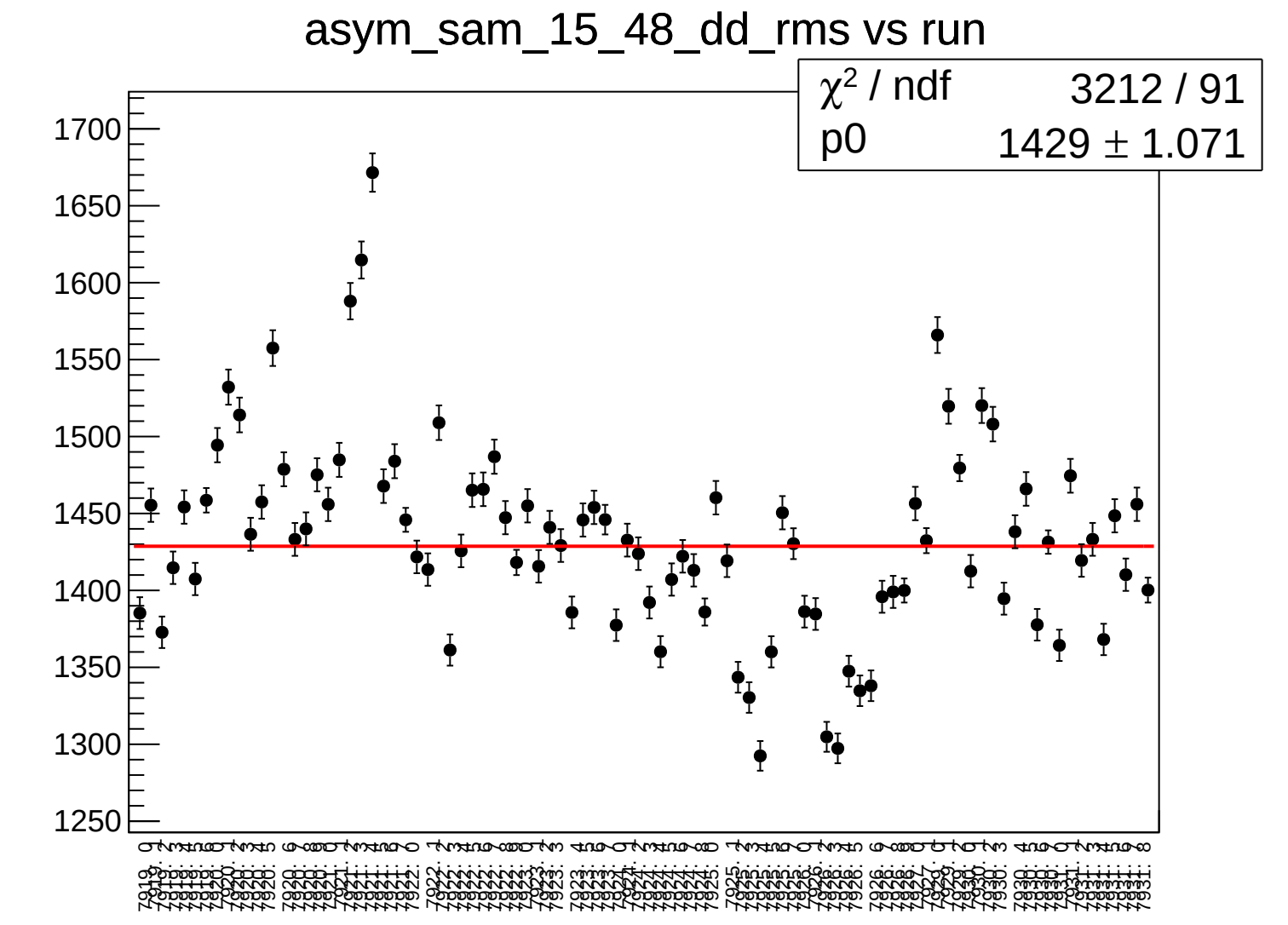

eigen_dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 7059 / 91
p0 90.13 ± 0.06763
115
110
105
100
95
90
85
80
75

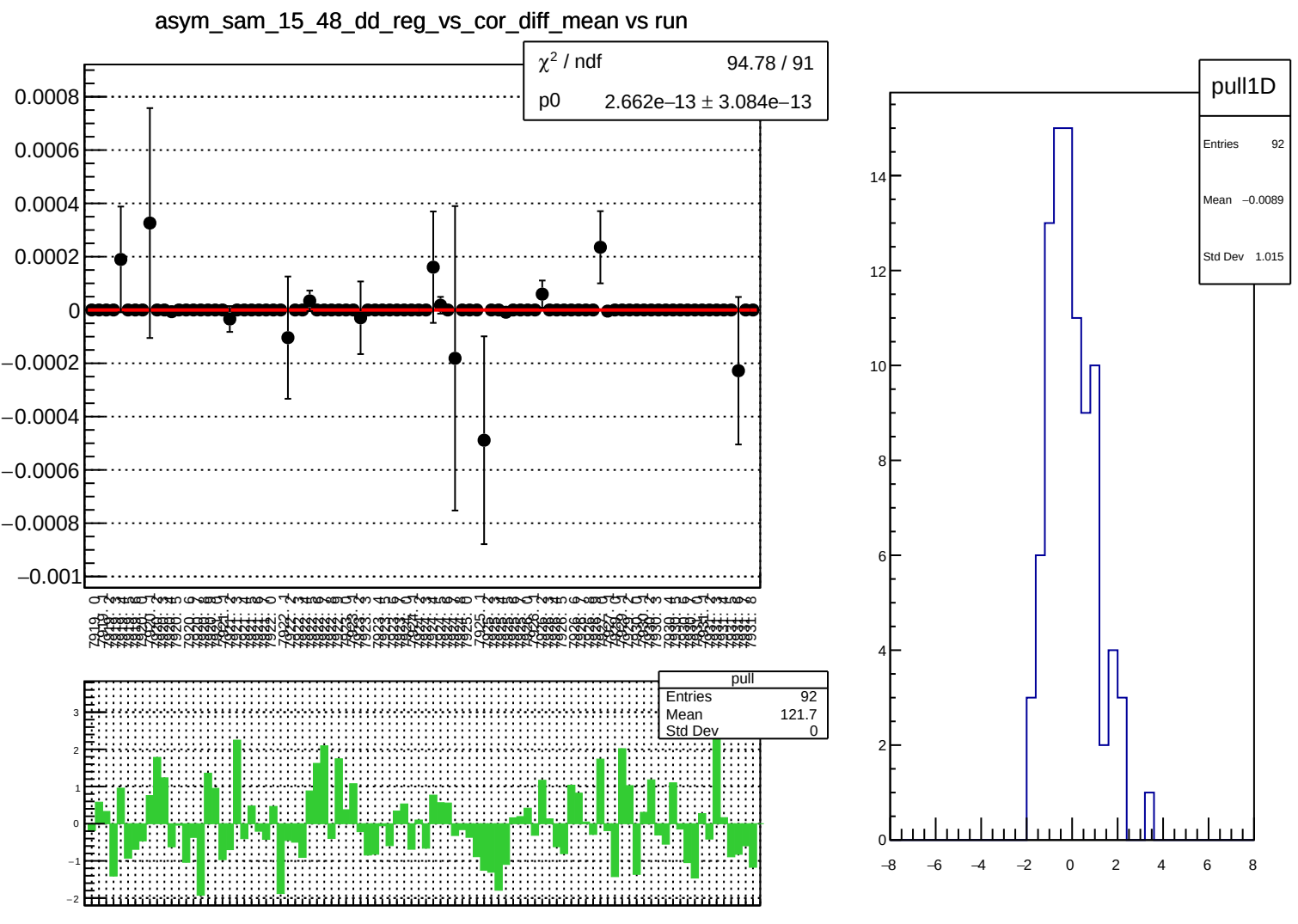

asym_sam_15_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 101.9 / 91
p0 2798 ± 1527
pull
Entries 92
Mean −1.332e+05
Std Dev 0
pull1D
Entries 92
Mean 2.522e−05
Std Dev 1.052

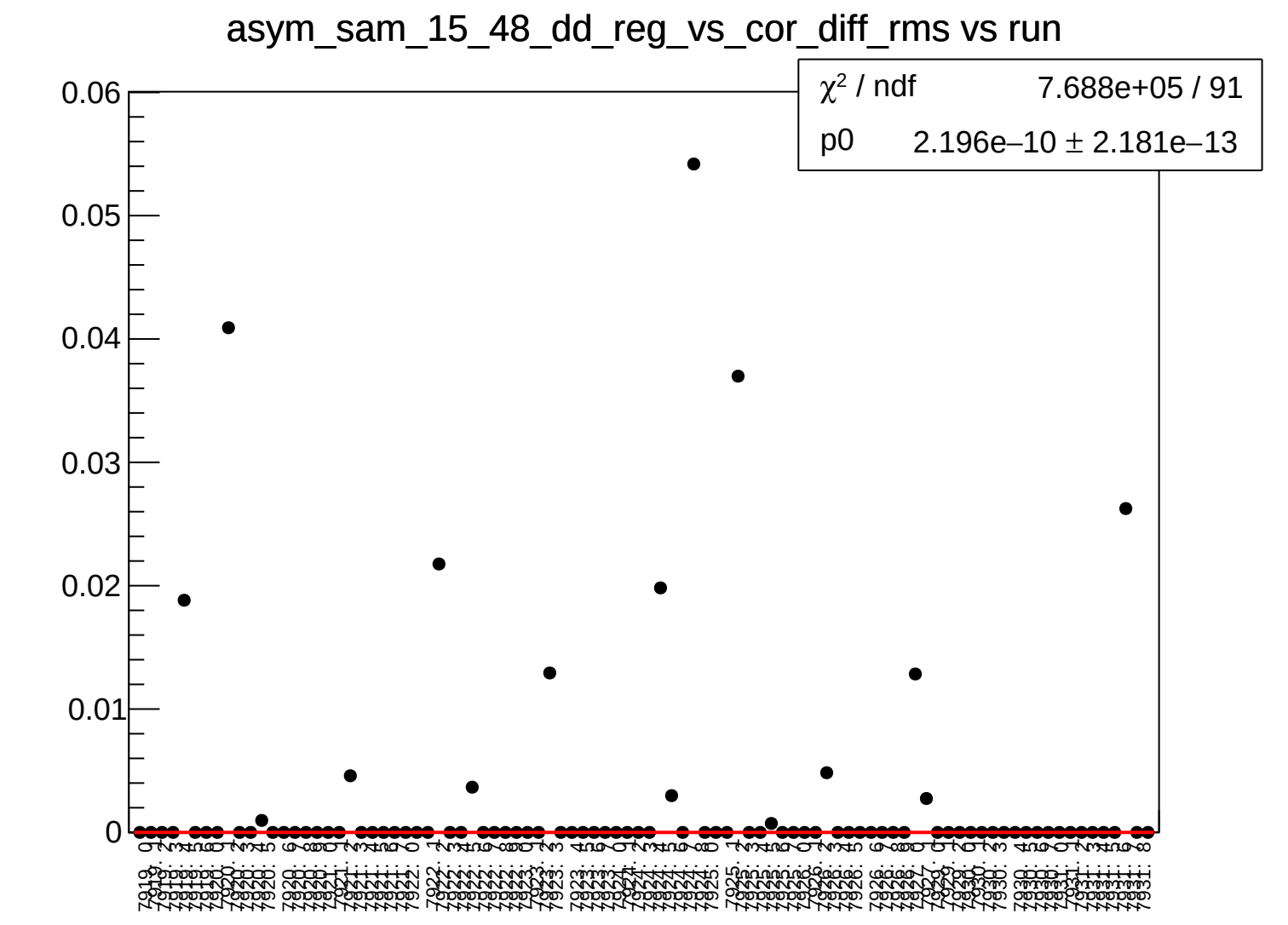

asym_sam_15_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 3173 / 91
p0 1441 ± 1.08
1700
1650
1600
1550
1500
1450
1400
1350
1300

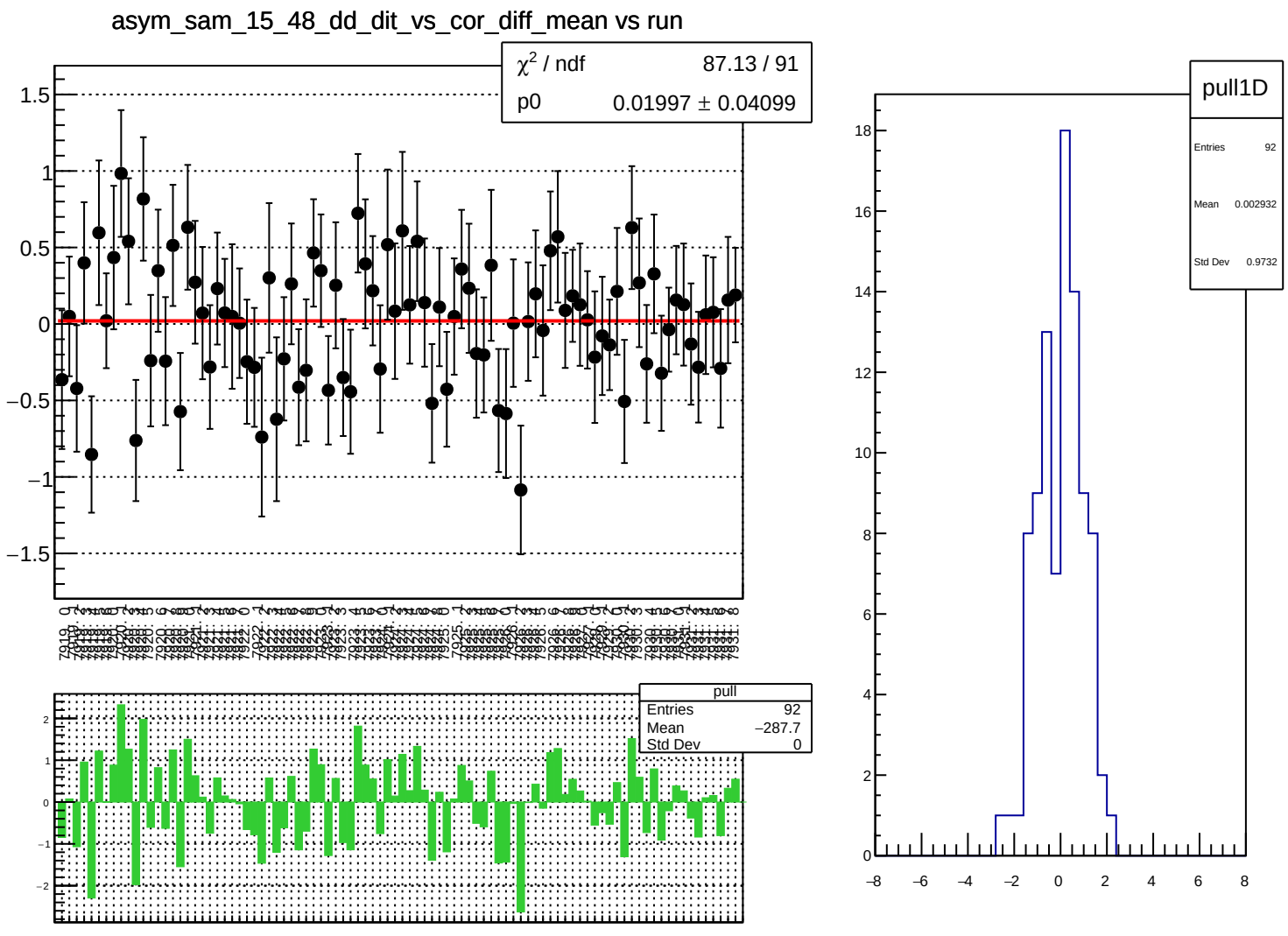

asym_sam_15_48_dd_mean vs run
χ² / ndf 99.94 / 91
p0 −2727 ± 1515
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 7081
Std Dev 0
3
2
1
0
−1
−2

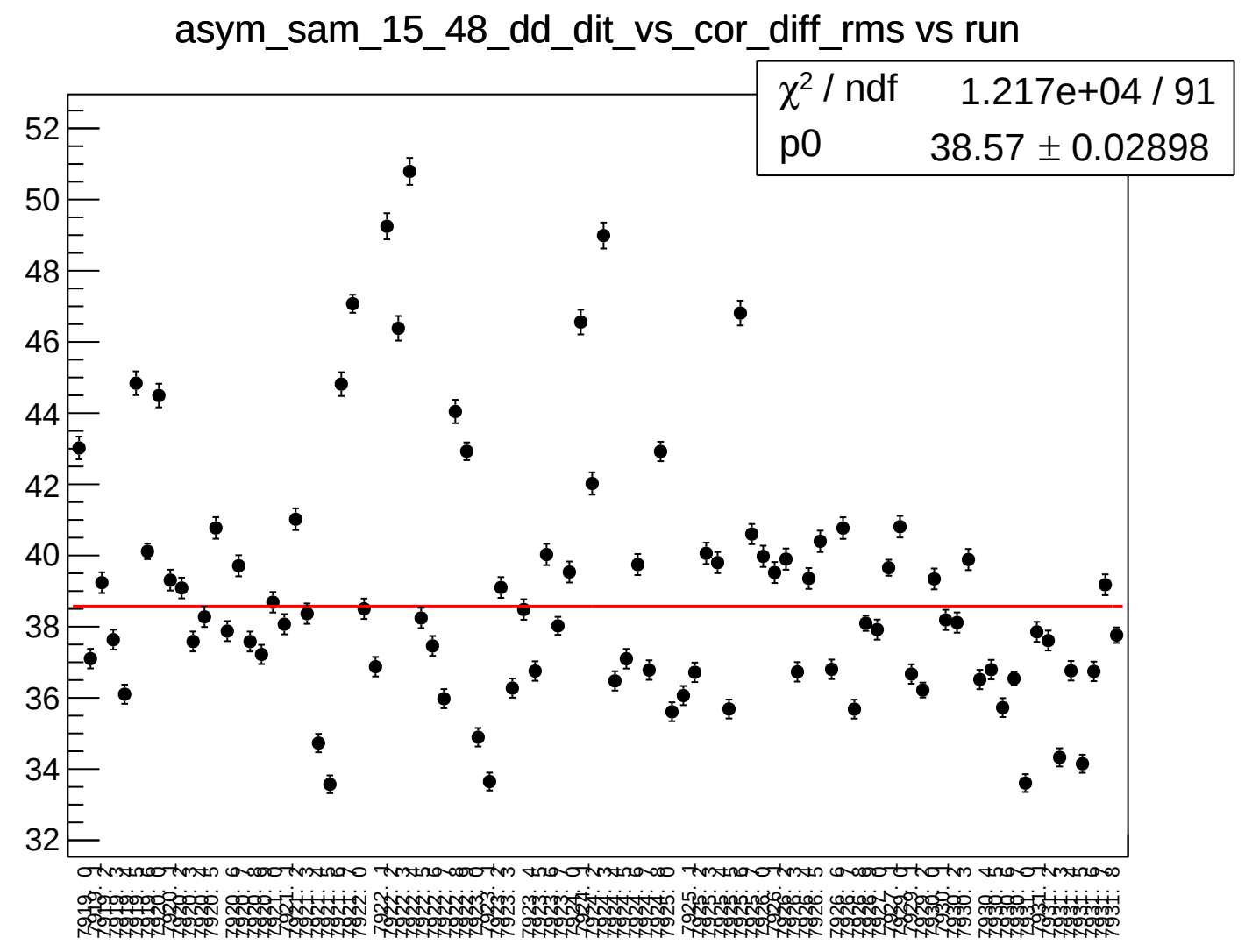

pull1D
Entries 92
Mean 0.0004823
Std Dev 1.042
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

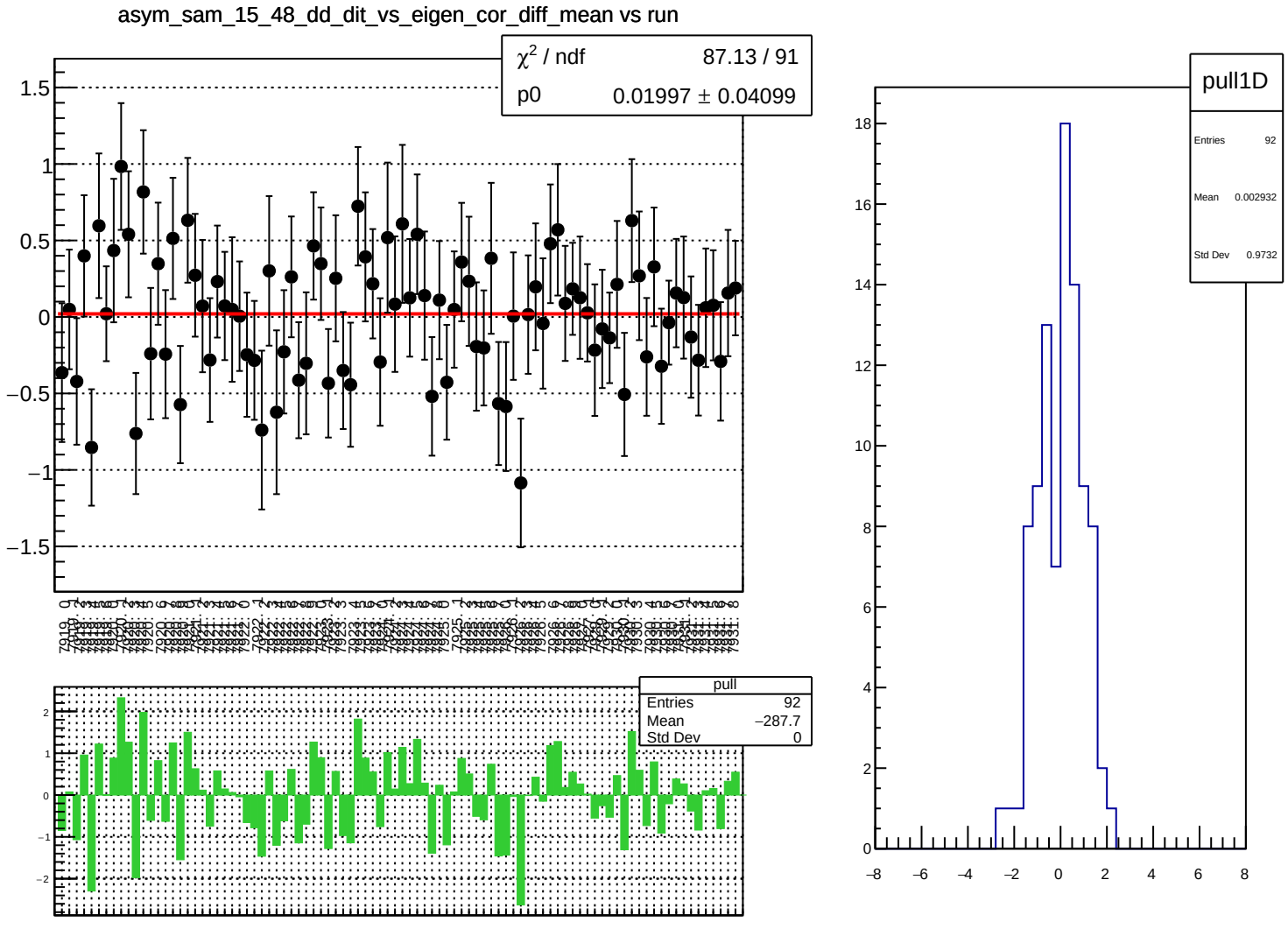

asym_sam_15_48_dd_rms vs run
χ² / ndf 3212 / 91
p0 1429 ± 1.071
1700
1650
1600
1550
1500
1450
1400
1350
1300
1250

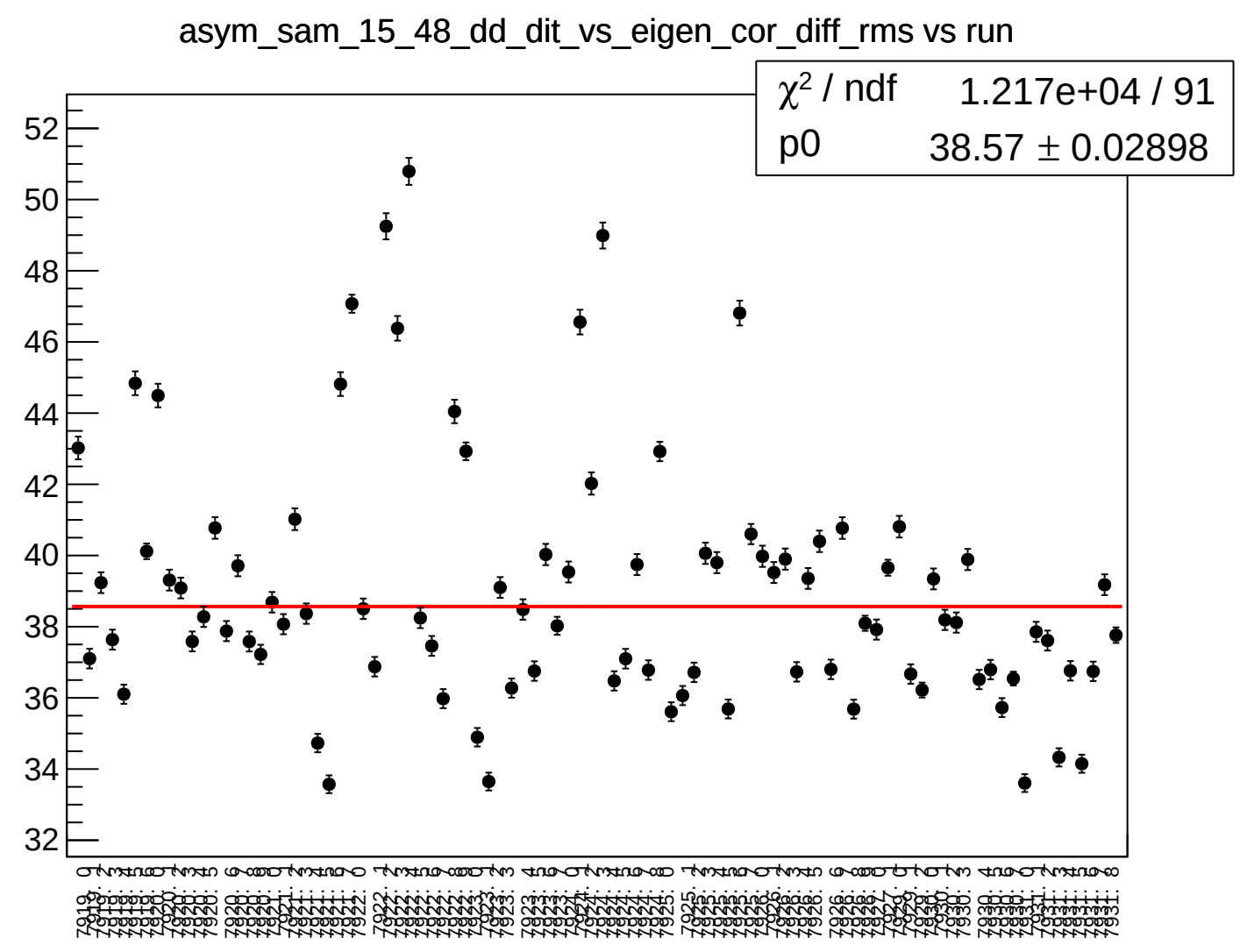

asym_sam_15_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 94.78 / 91
p0 2.662e−13 ± 3.084e−13
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 92
Mean 121.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.0089
Std Dev 1.015
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

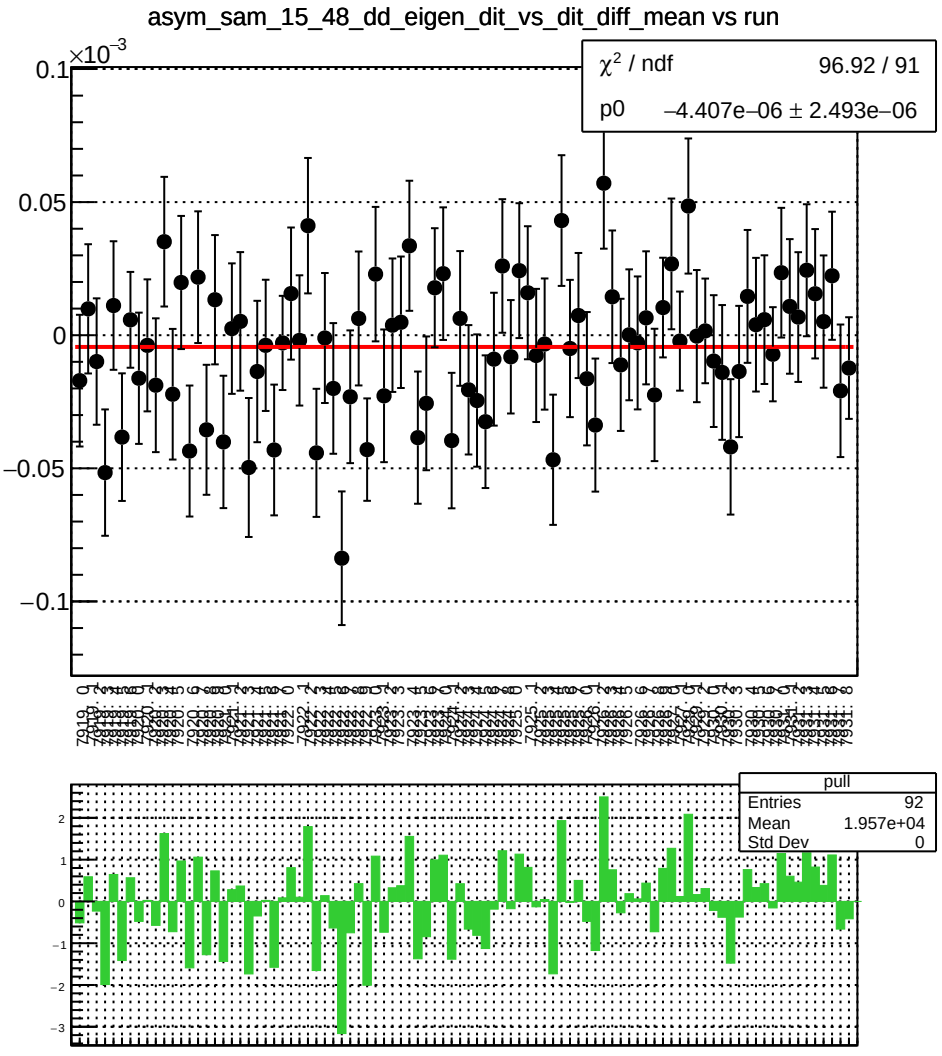

asym_sam_15_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.688e+05 / 91
p0 2.196e−10 ± 2.181e−13
0.06
0.05
0.04
0.03
0.02
0.01
0

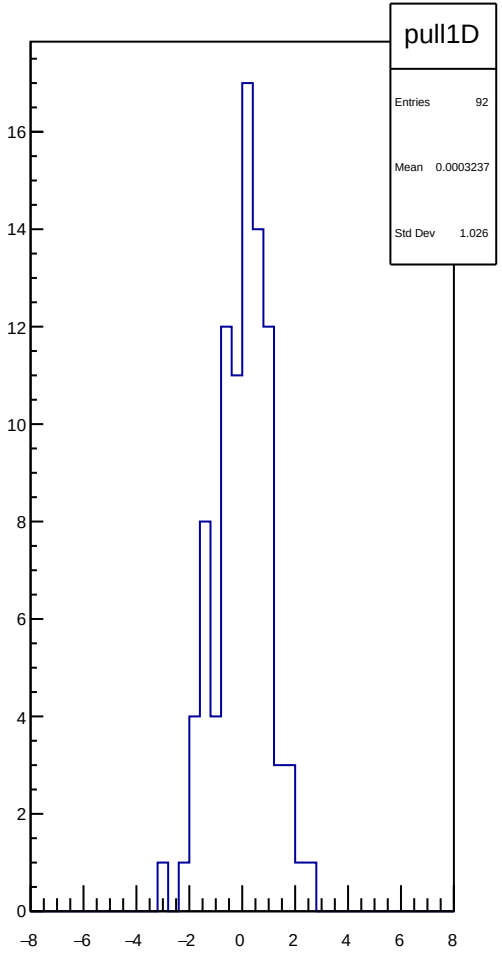

asym_sam_15_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 87.13 / 91
p0 0.01997 ± 0.04099
pull
Entries 92
Mean −287.7
Std Dev 0
pull1D
Entries 92
Mean 0.002932
Std Dev 0.9732

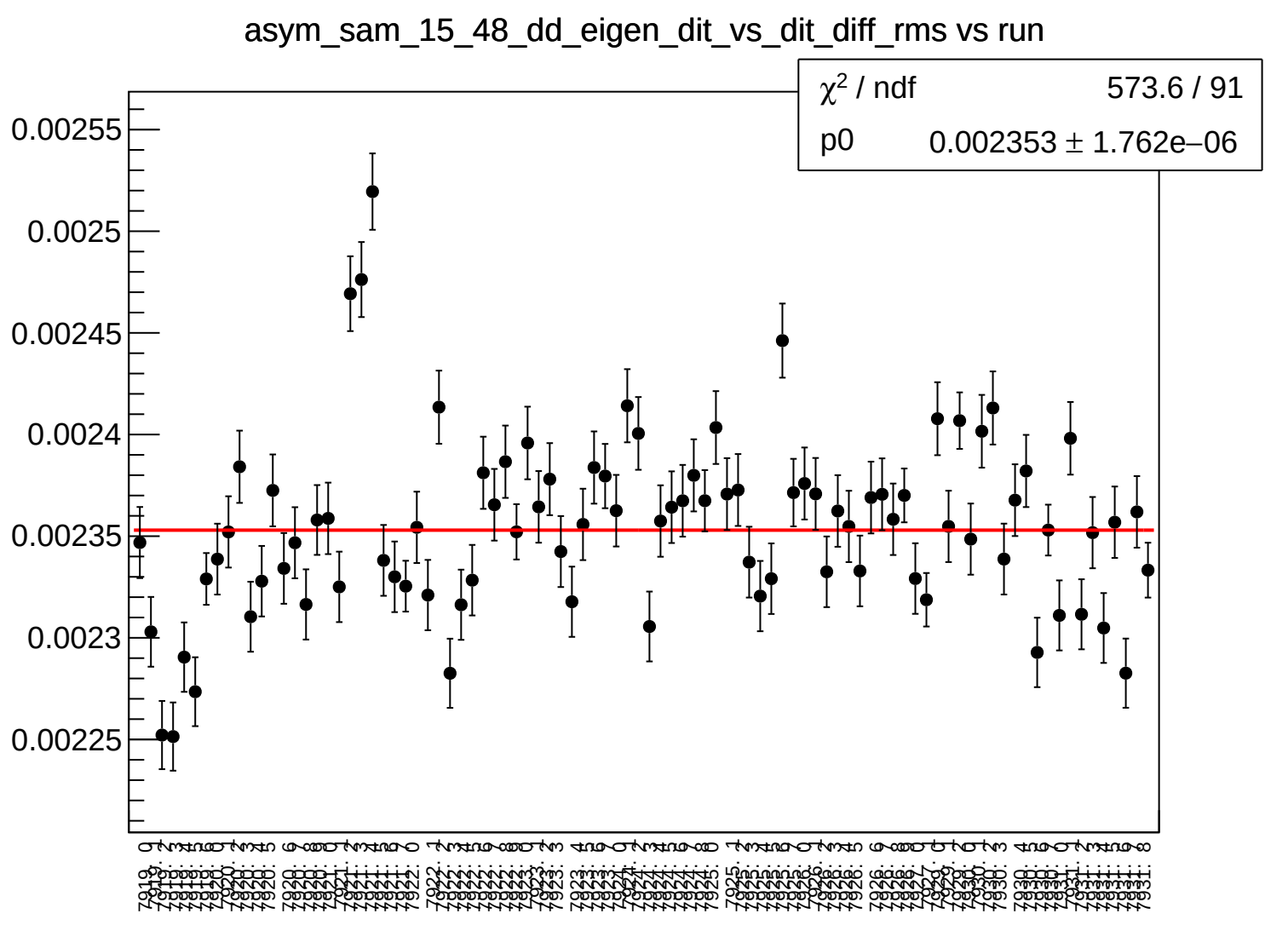

asym_sam_15_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.217e+04 / 91
p0 38.57 ± 0.02898
52
50
48
46
44
42
40
38
36
34
32

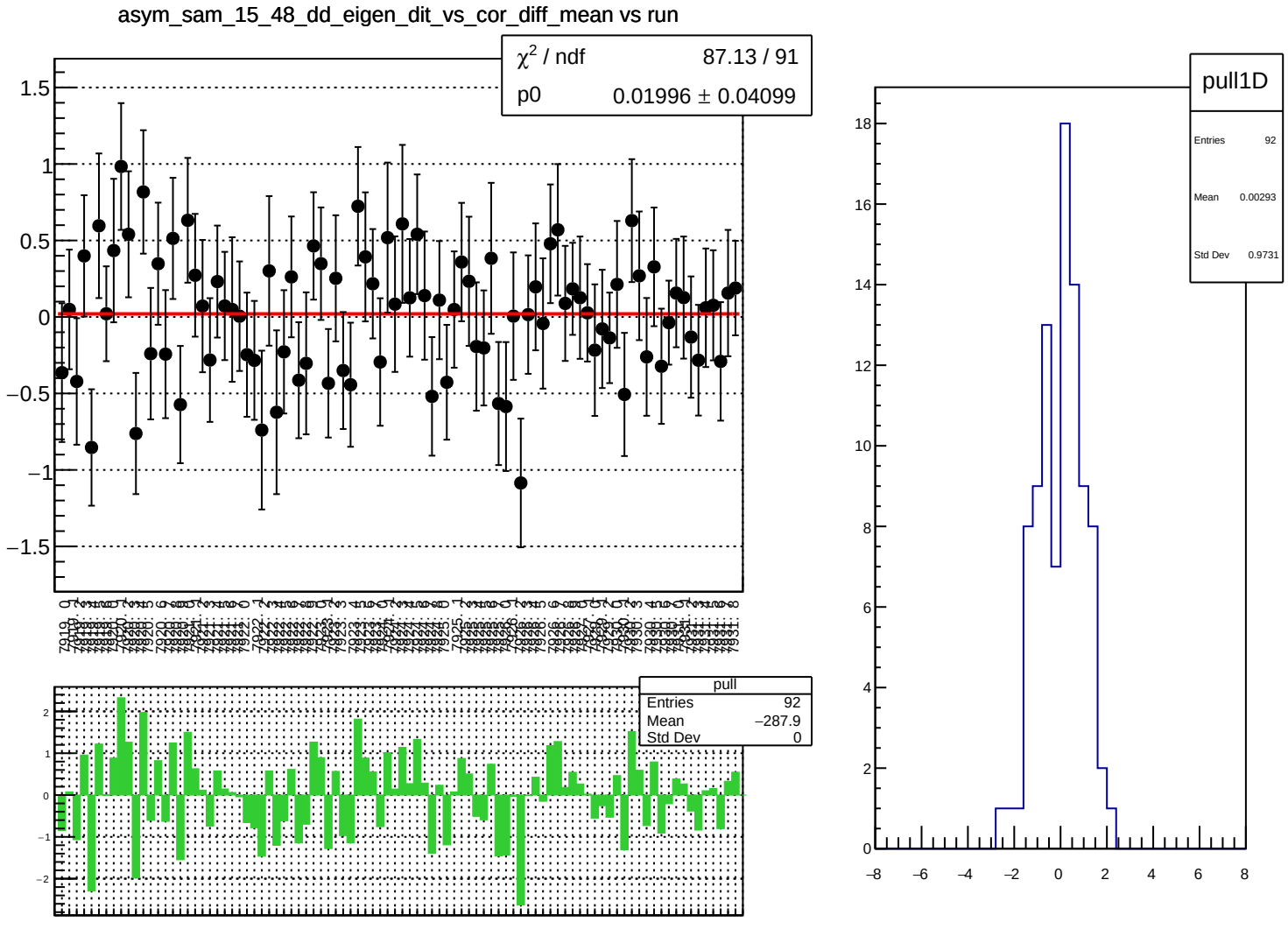

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.13 / 91
p0 0.01997 ± 0.04099
pull
Entries 92
Mean −287.7
Std Dev 0
pull1D
Entries 92
Mean 0.002932
Std Dev 0.9732

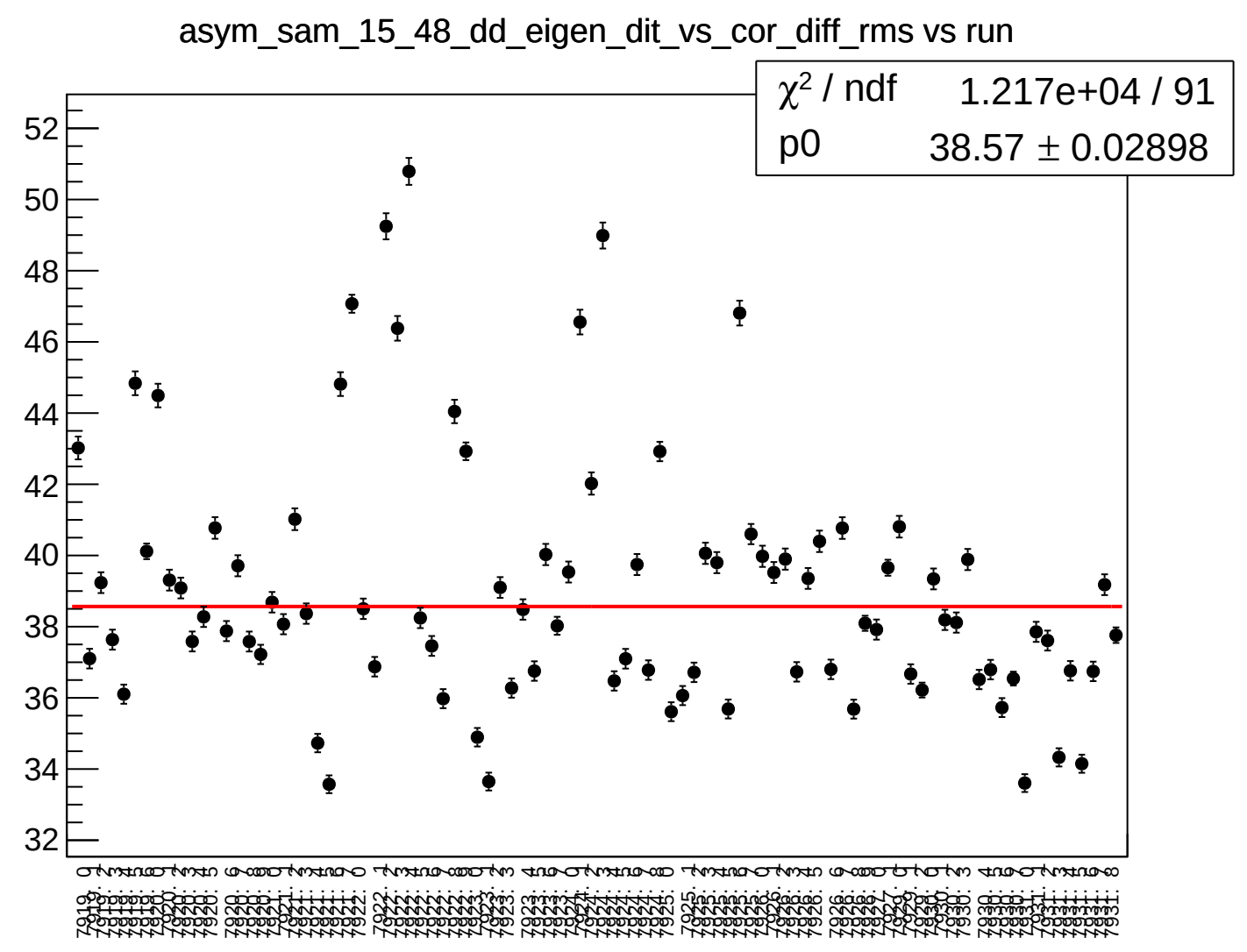

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.217e+04 / 91
p0 38.57 ± 0.02898
52
50
48
46
44
42
40
38
36
34
32

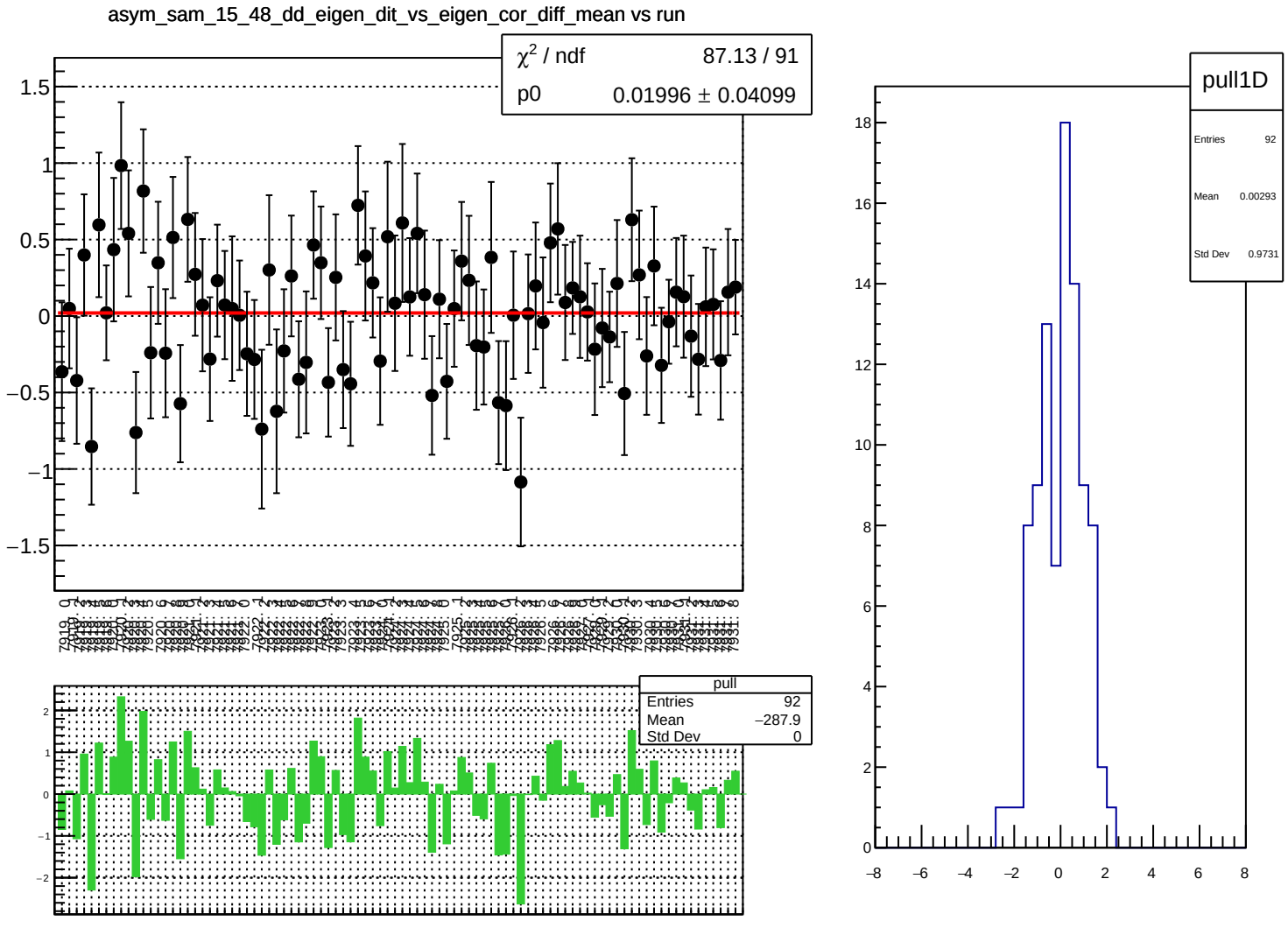

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 96.92 / 91
p0 −4.407e−06 ± 2.493e−06
pull
Entries 92
Mean 1.957e+04
Std Dev 0

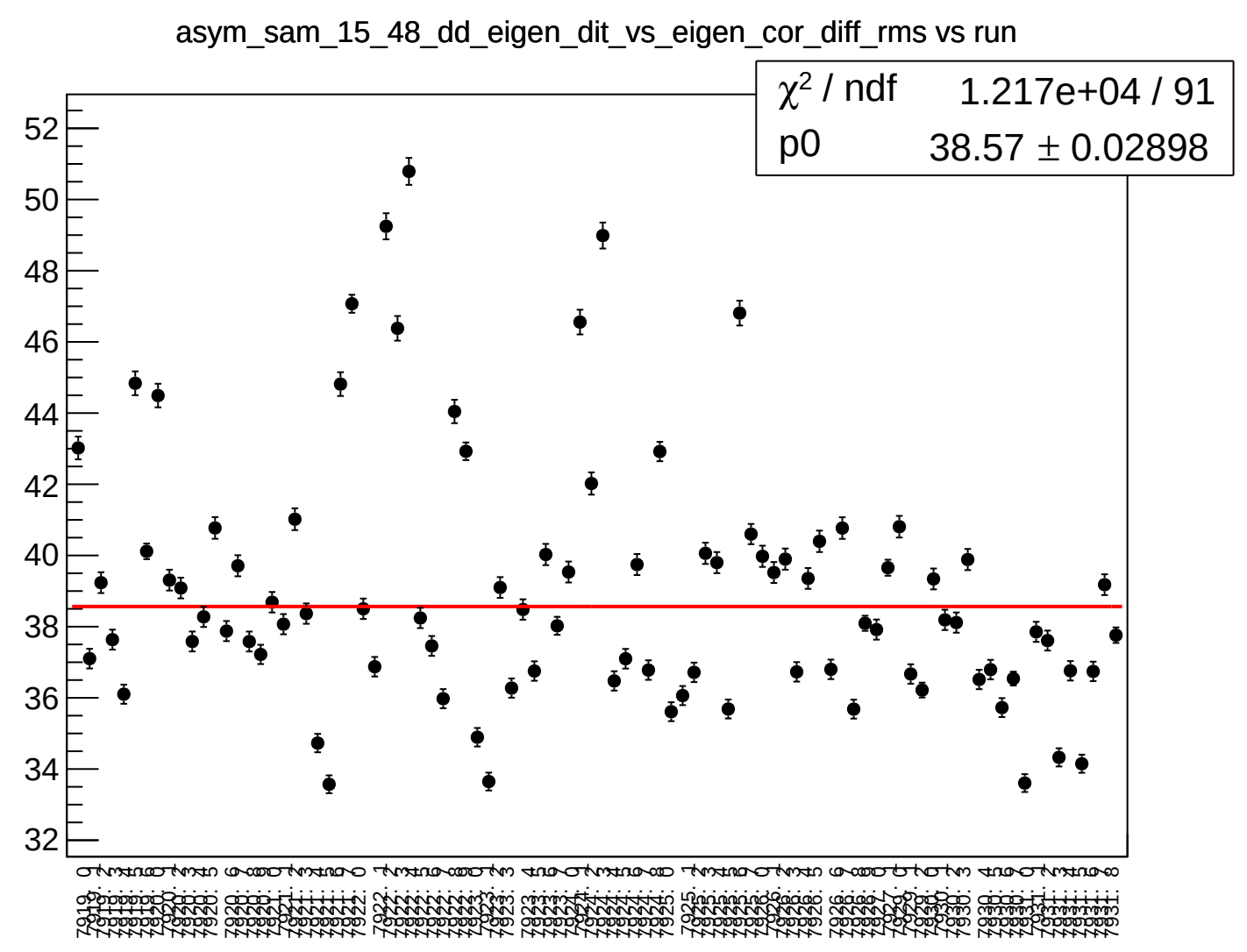

pull1D
Entries 92
Mean 0.0003237
Std Dev 1.026

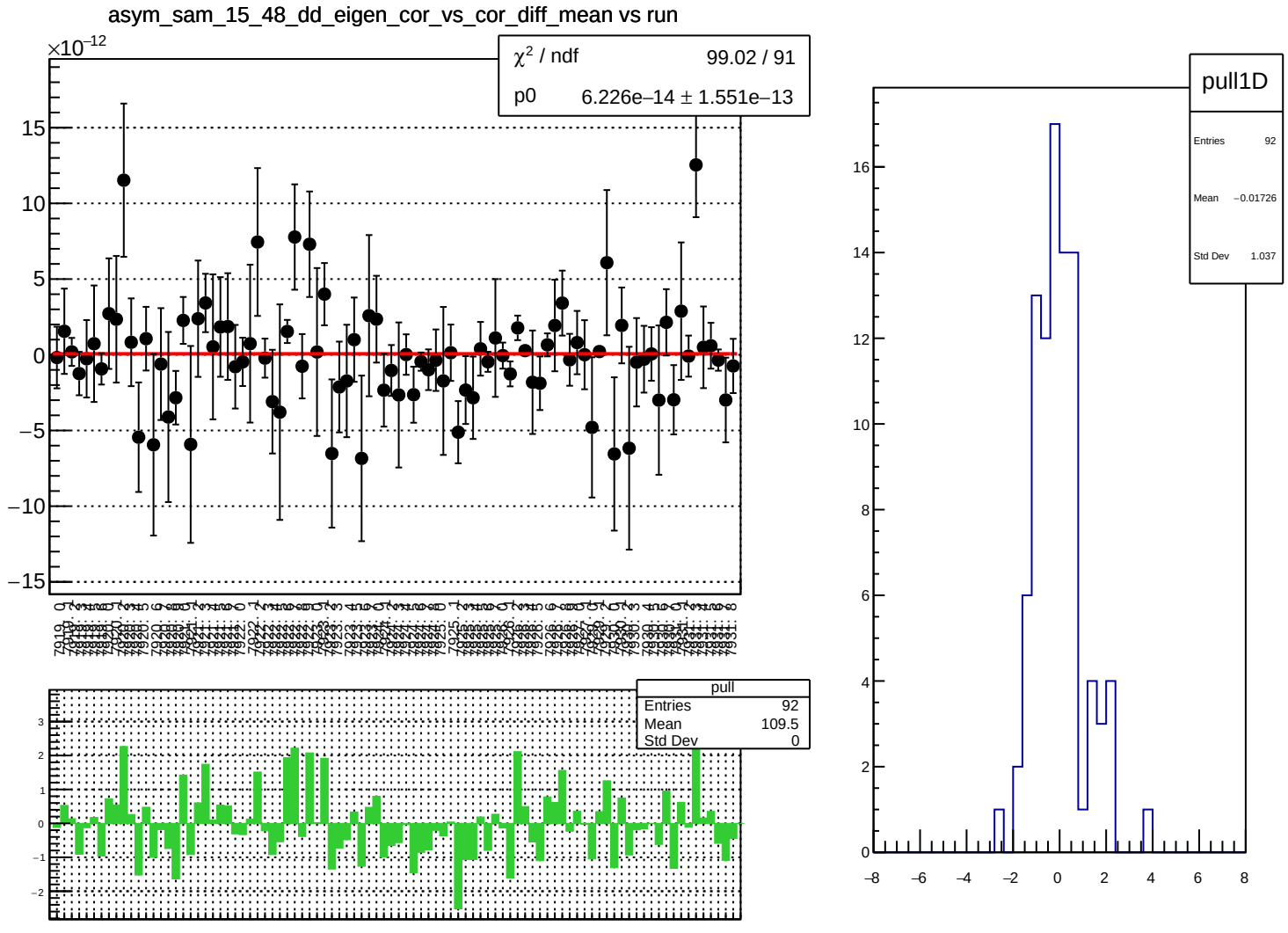

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 573.6 / 91
p0 0.002353 ± 1.762e−06
0.00255
0.0025
0.00245
0.0024
0.00235
0.0023
0.00225

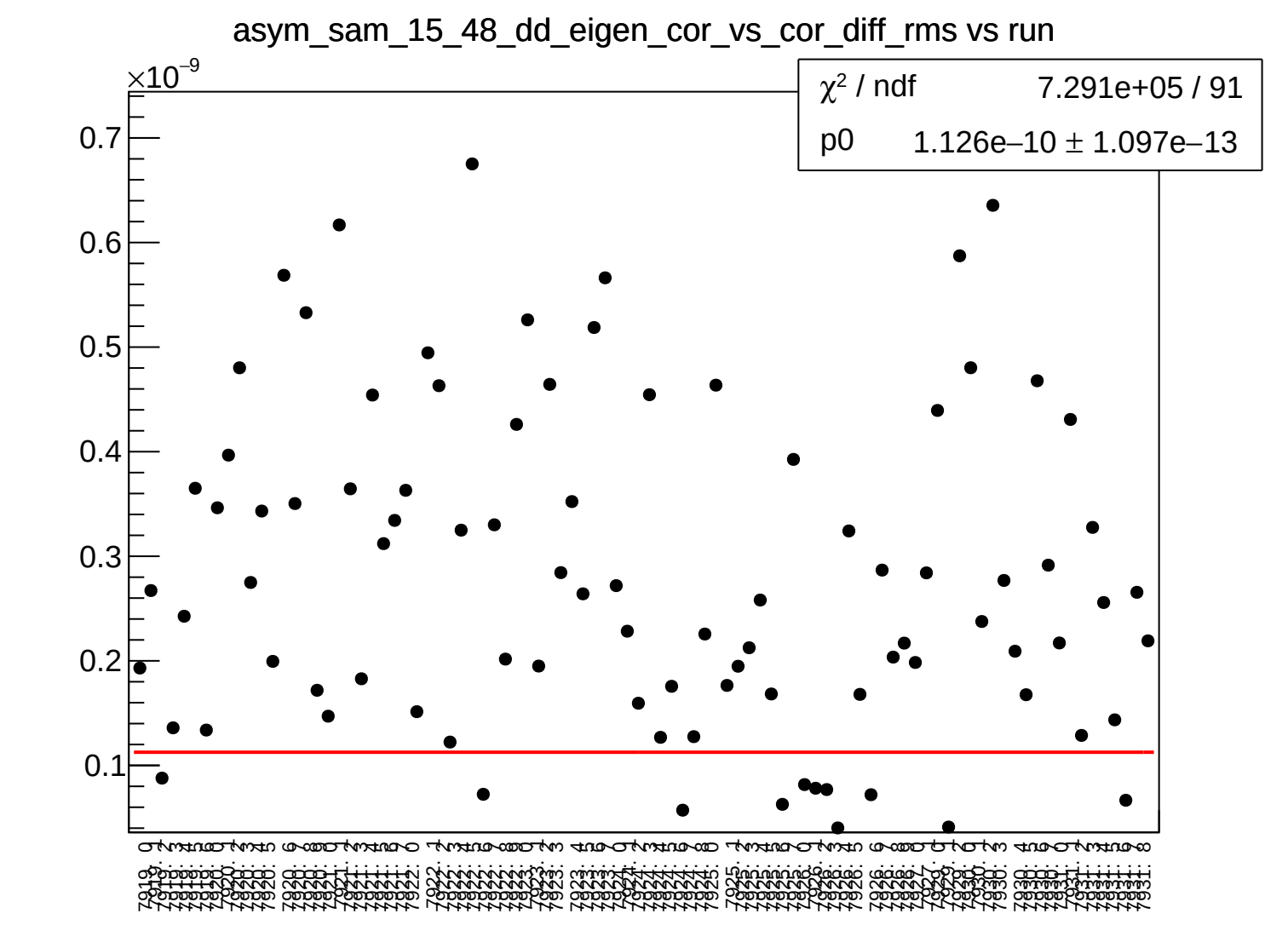

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.13 / 91
p0 0.01996 ± 0.04099
pull
Entries 92
Mean −287.9
Std Dev 0
pull1D
Entries 92
Mean 0.00293
Std Dev 0.9731

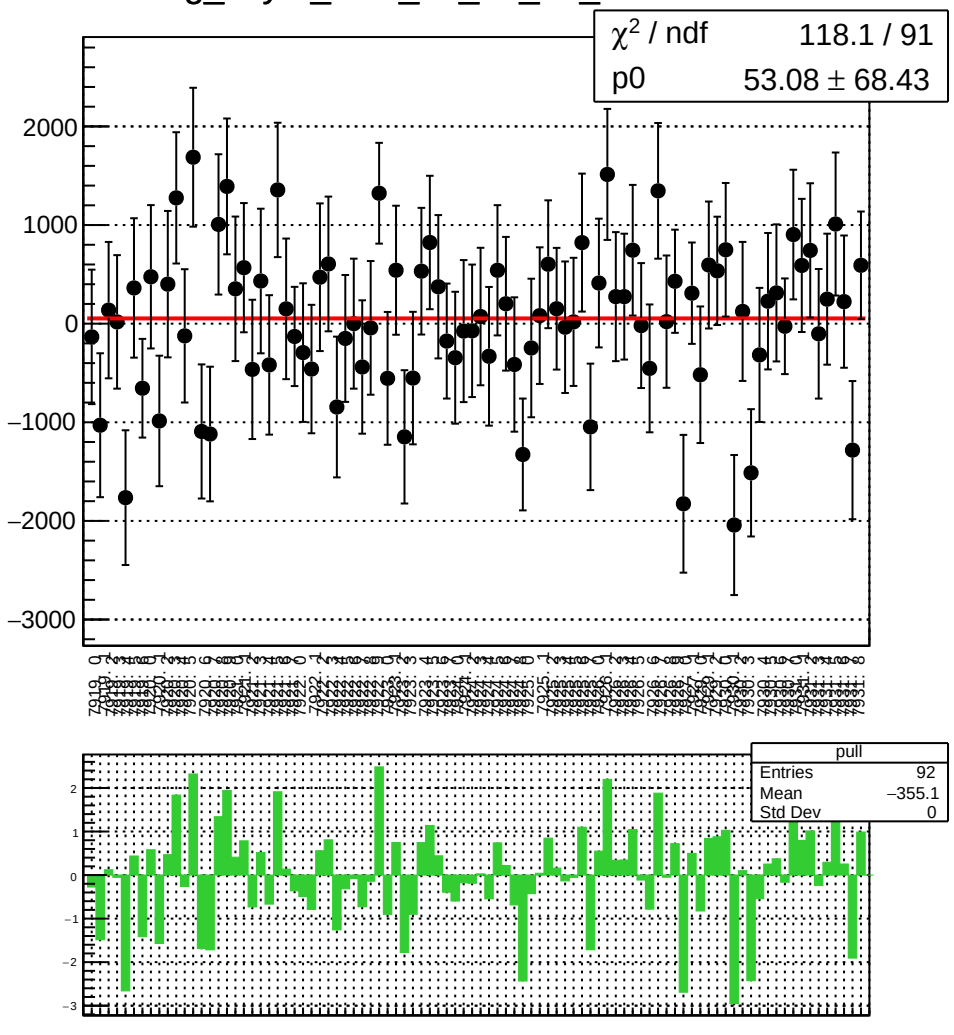

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.217e+04 / 91
p0 38.57 ± 0.02898
52
50
48
46
44
42
40
38
36
34
32

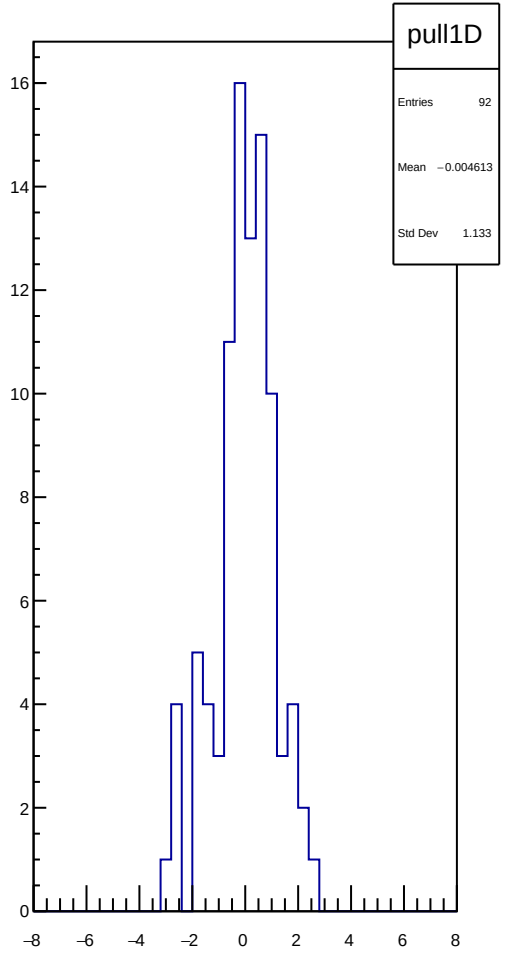

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.13 / 91
p0 0.01996 ± 0.04099
pull
Entries 92
Mean −287.9
Std Dev 0
pull1D
Entries 92
Mean 0.00293
Std Dev 0.9731

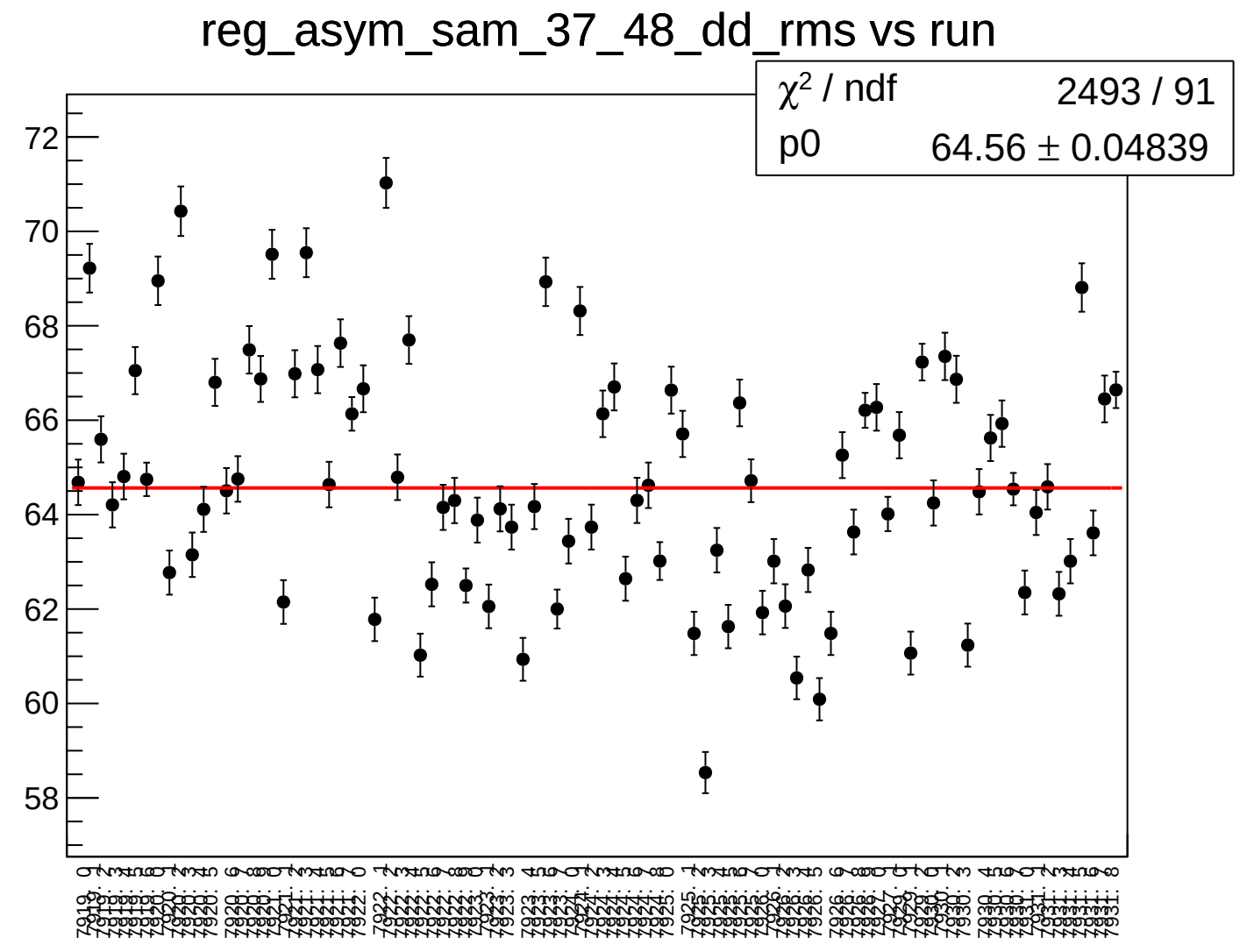

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.217e+04 / 91
p0 38.57 ± 0.02898
52
50
48
46
44
42
40
38
36
34
32

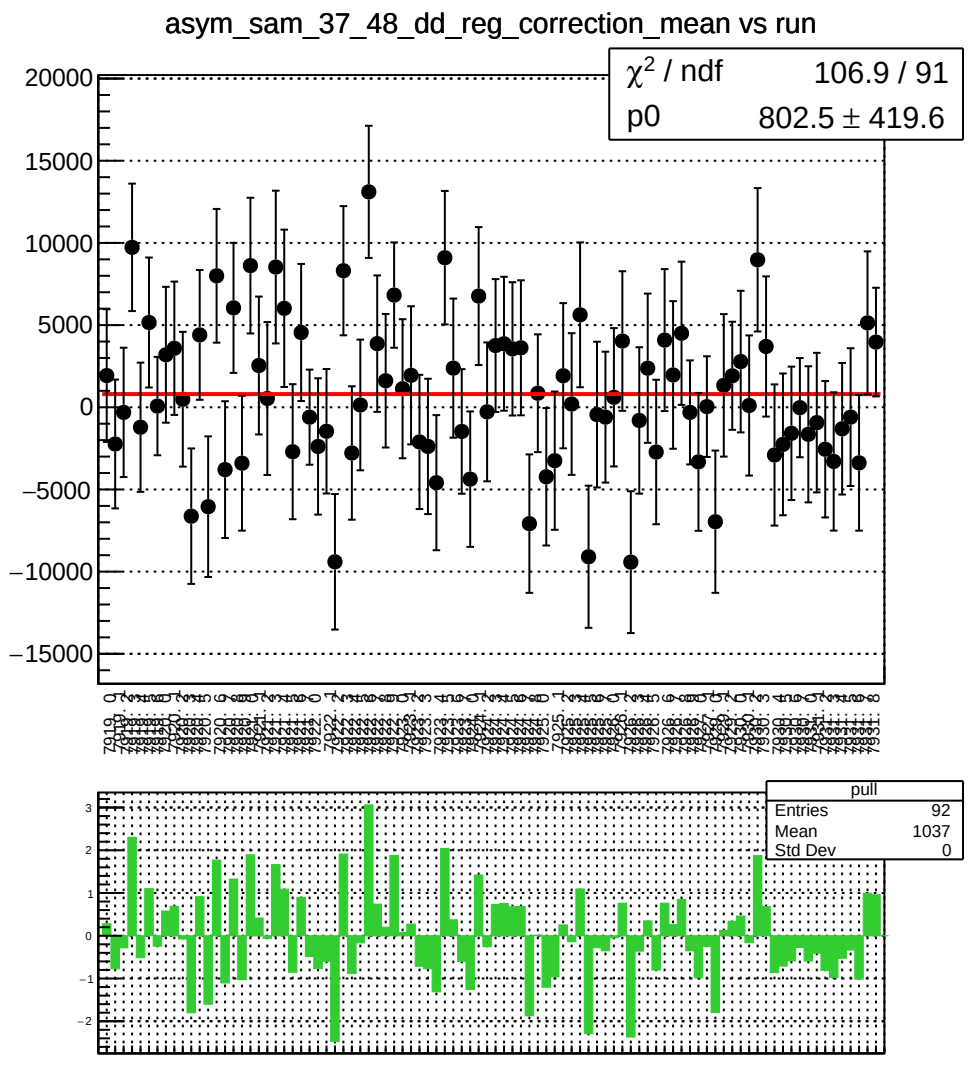

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.02 / 91
p0 6.226e−14 ± 1.551e−13
pull
Entries 92
Mean 109.5
Std Dev 0
pull1D
Entries 92
Mean −0.01726
Std Dev 1.037

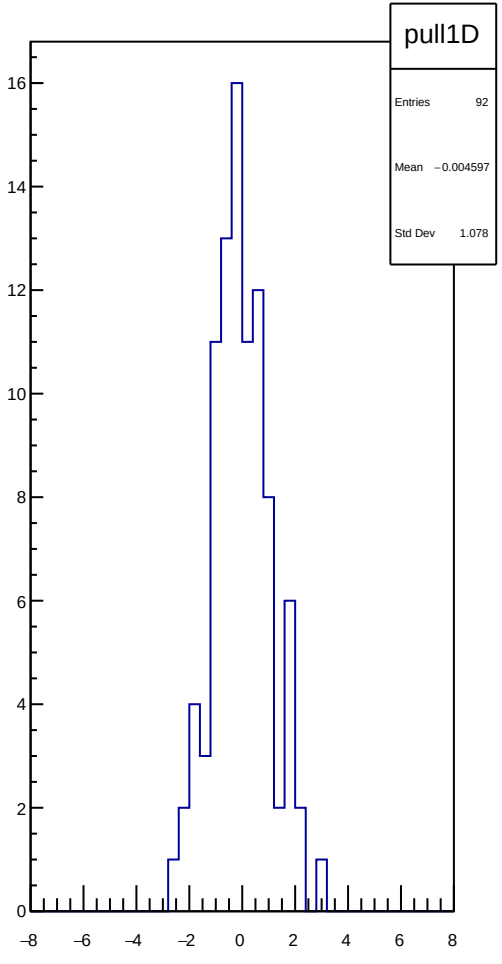

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.291e+05 / 91
p0 1.126e−10 ± 1.097e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1

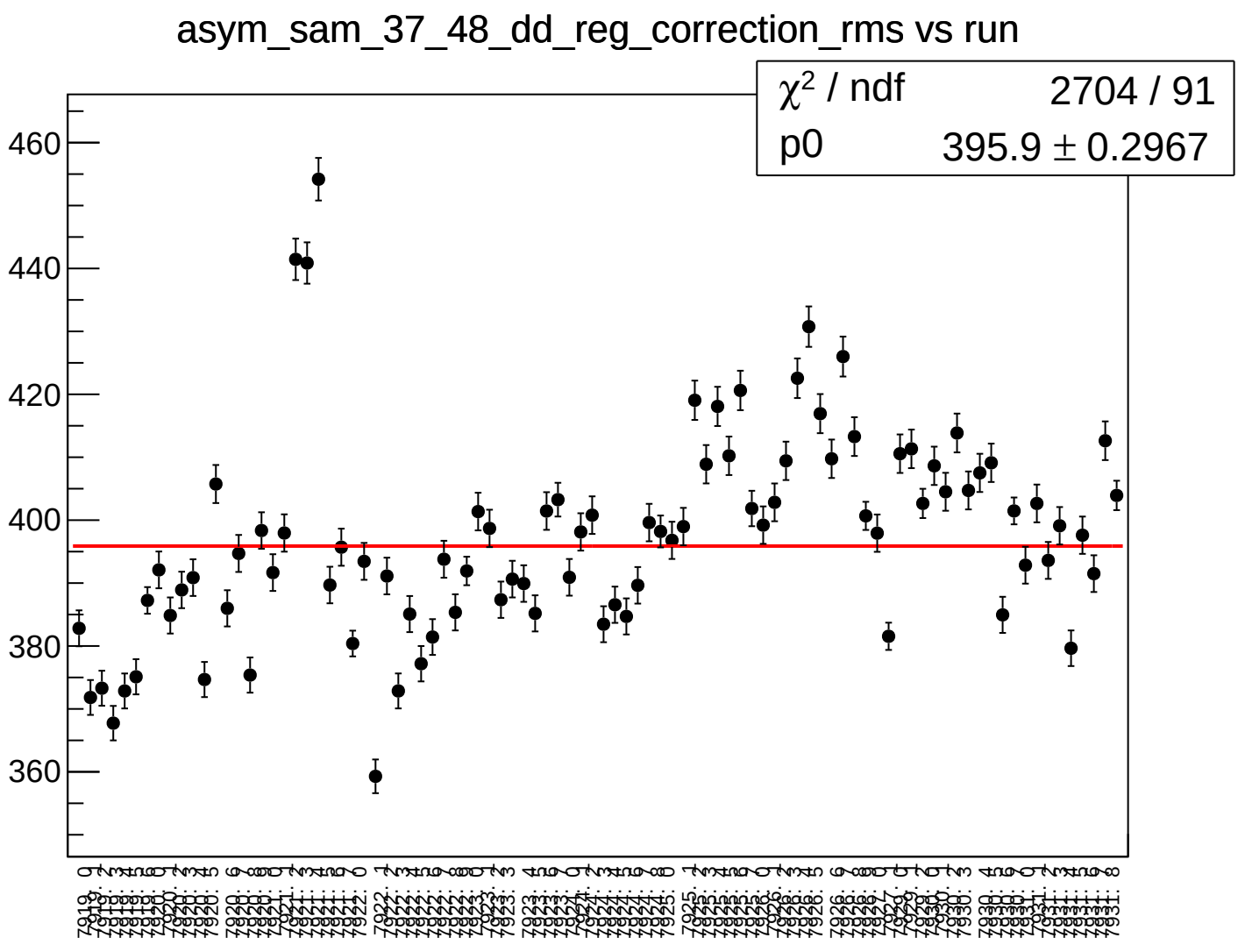

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 118.1 / 91
p0 53.08 ± 68.43
2000
1000
0
−1000
−2000
−3000
pull
Entries 92
Mean −355.1
Std Dev 0
2
1
0
−1
−2
−3

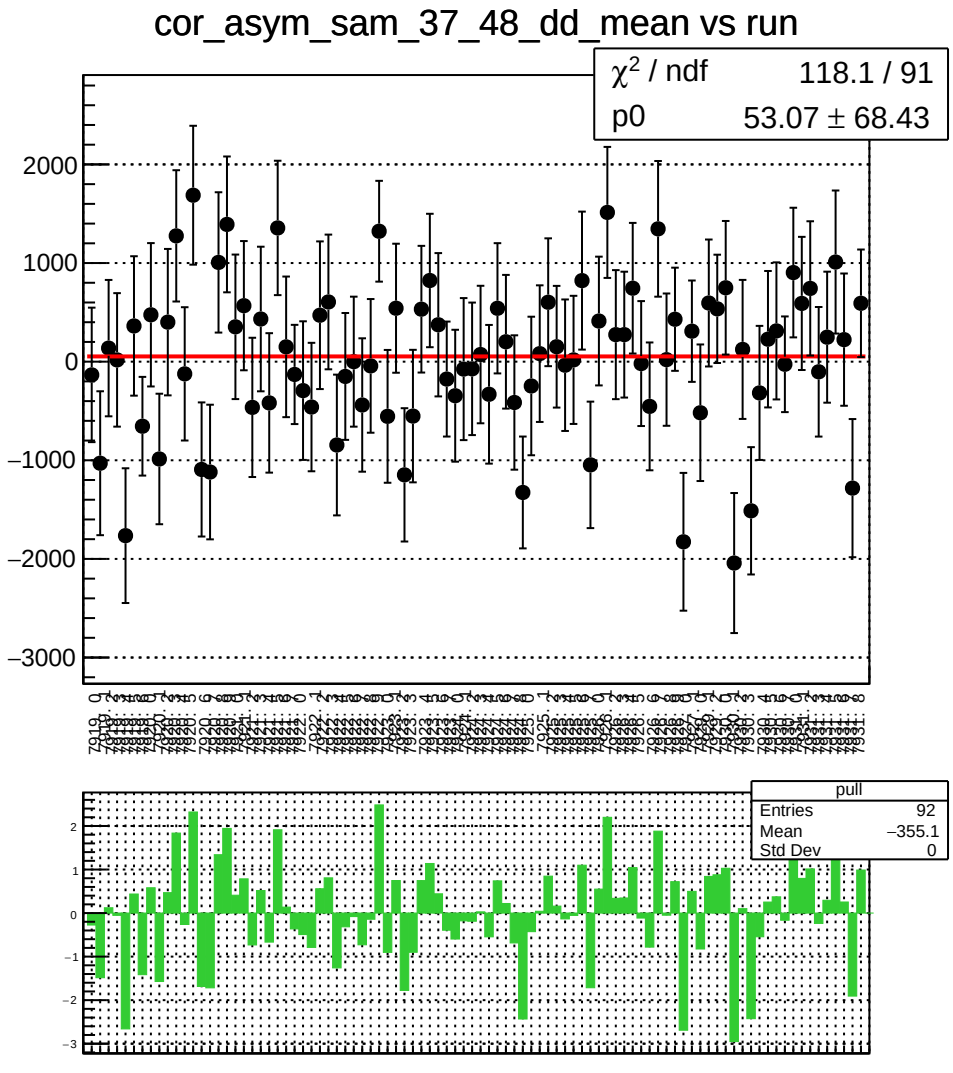

pull1D
Entries 92
Mean −0.004613
Std Dev 1.133
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

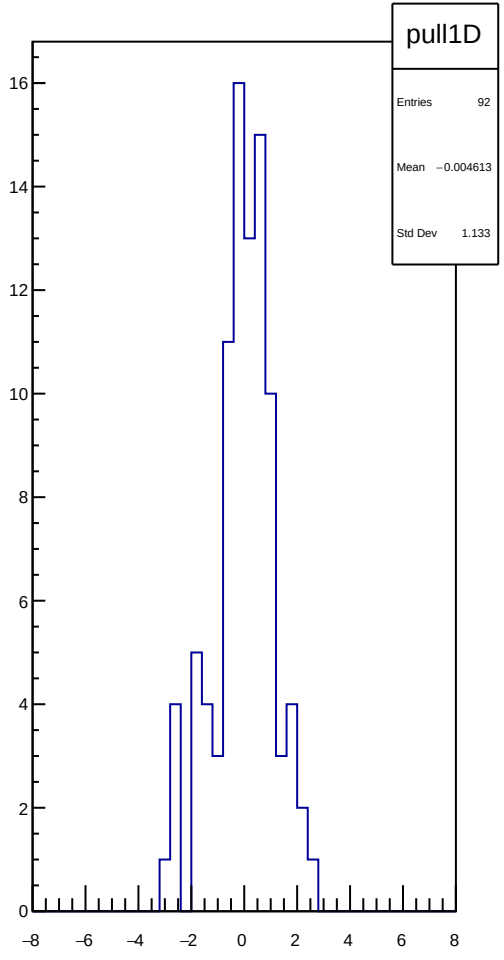

reg_asym_sam_37_48_dd_rms vs run
χ² / ndf 2493 / 91
p0 64.56 ± 0.04839
72
70
68
66
64
62
60
58

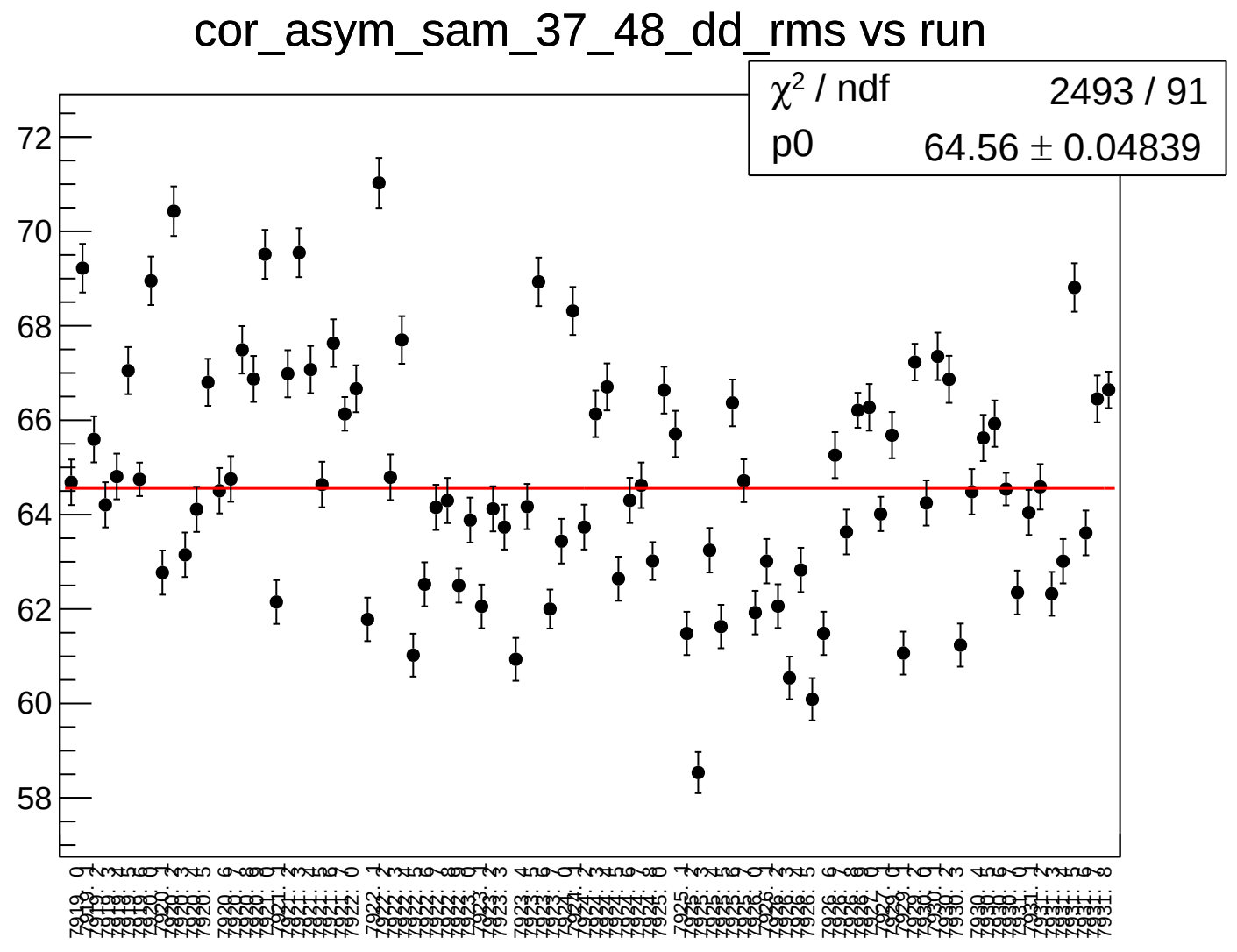

asym_sam_37_48_dd_reg_correction_mean vs run
χ² / ndf 106.9 / 91
p0 802.5 ± 419.6
pull
Entries 92
Mean 1037
Std Dev 0

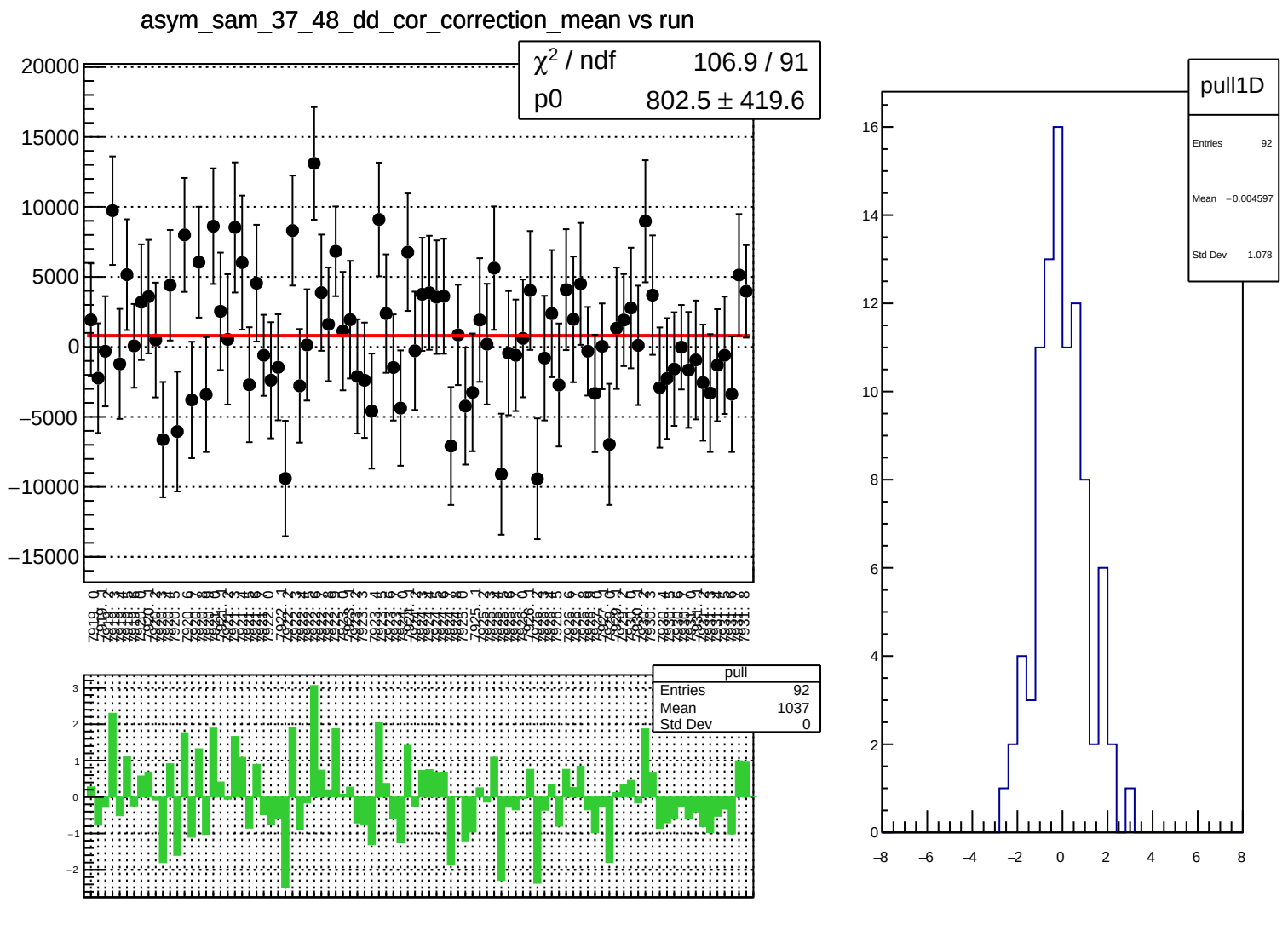

pull1D
Entries 92
Mean −0.004597
Std Dev 1.078

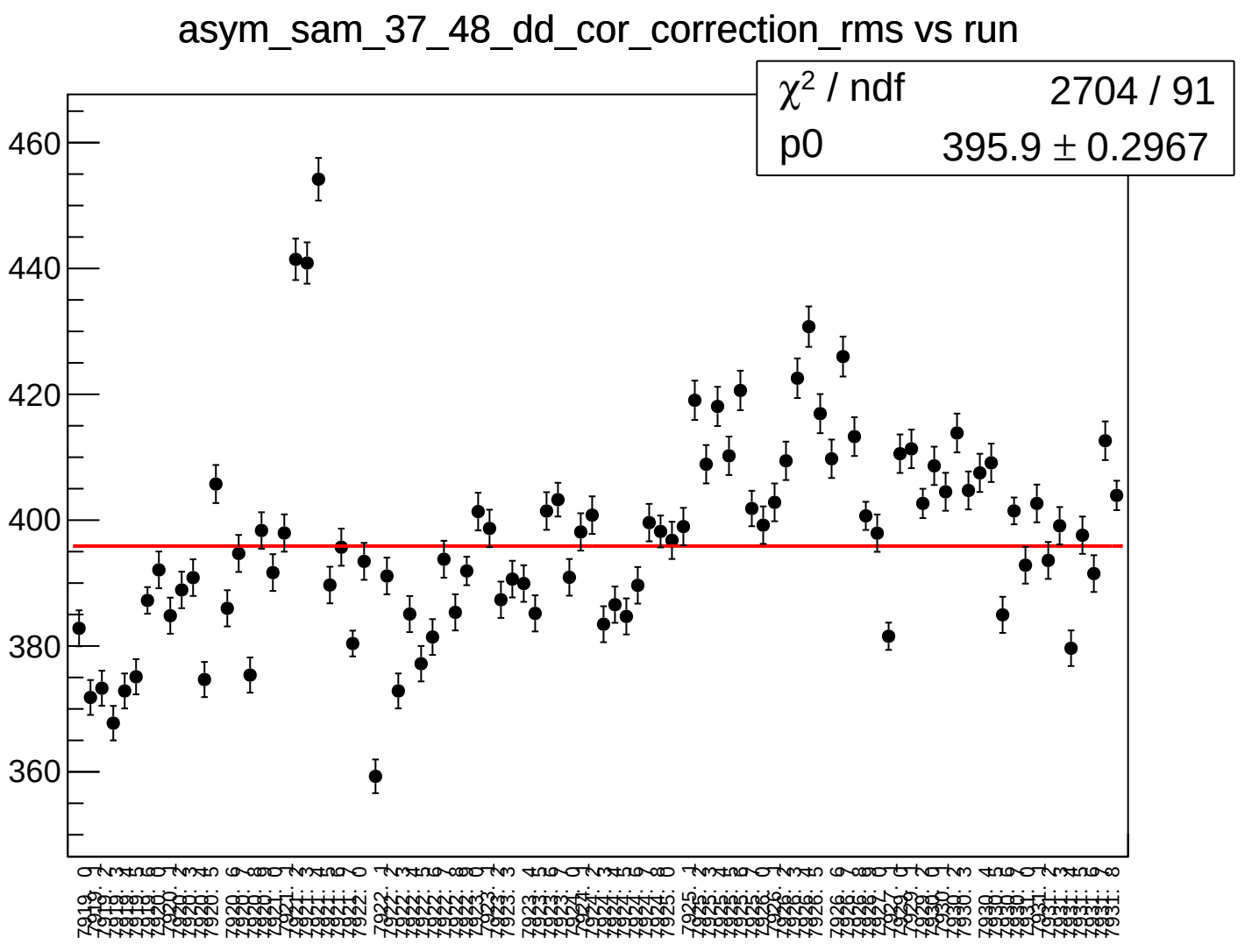

asym_sam_37_48_dd_reg_correction_rms vs run
χ² / ndf 2704 / 91
p0 395.9 ± 0.2967
460
440
420
400
380
360

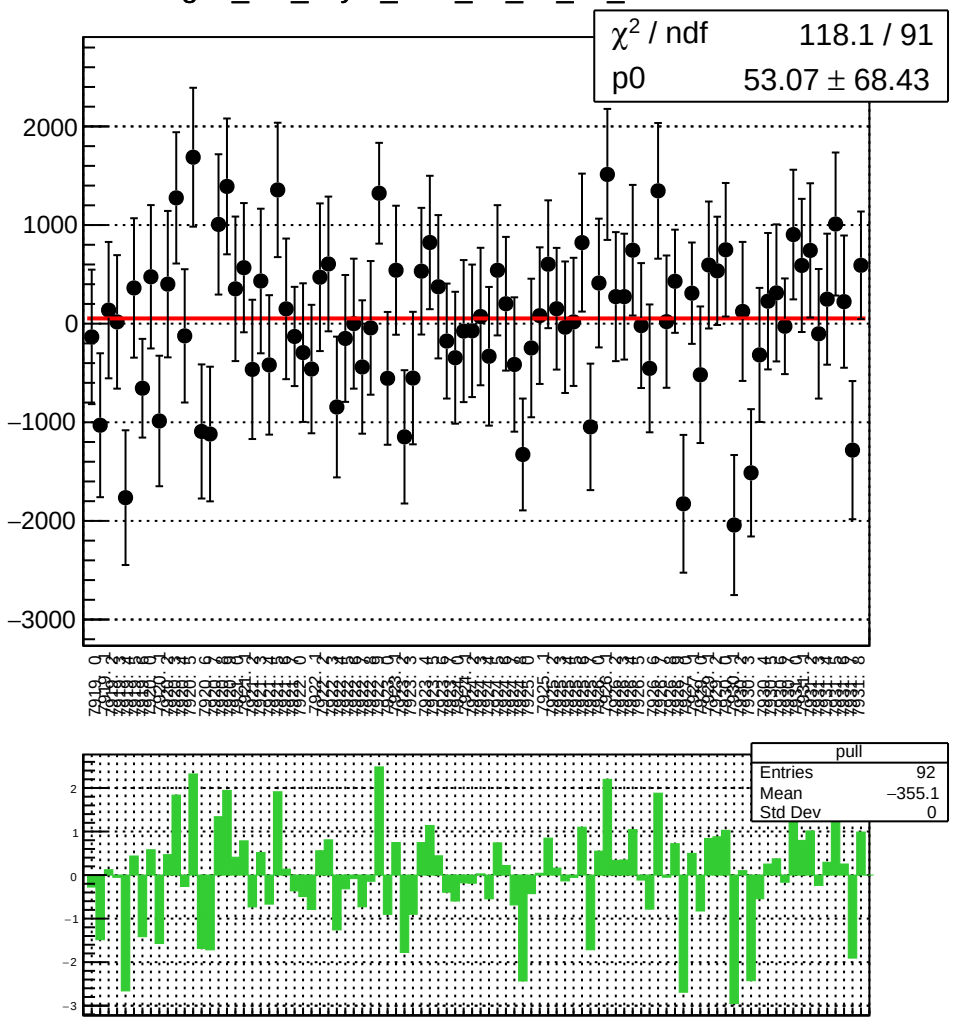

cor_asym_sam_37_48_dd_mean vs run
χ^2 / ndf 118.1 / 91
p0 53.07 ± 68.43
2000
1000
0
−1000
−2000
−3000
pull
Entries 92
Mean −355.1
Std Dev 0
2
1
0
−1
−2
−3

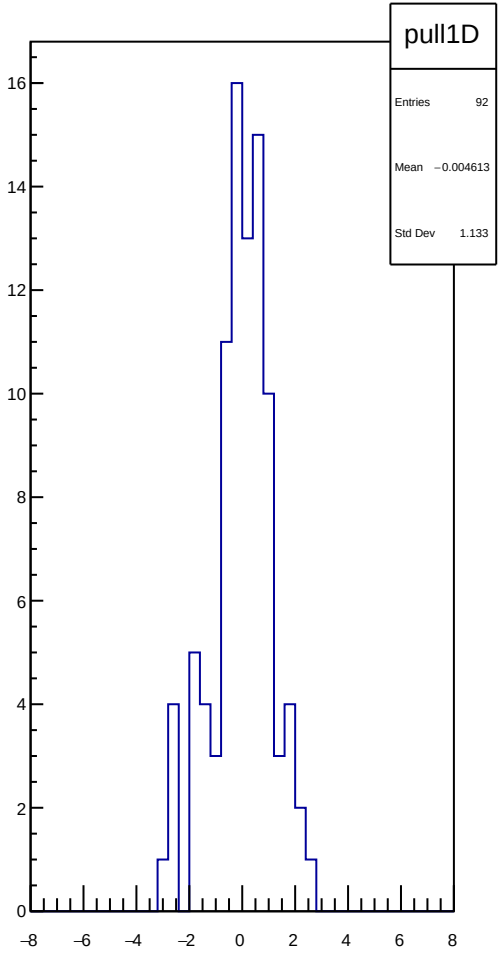

pull1D
Entries 92
Mean −0.004613
Std Dev 1.133
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

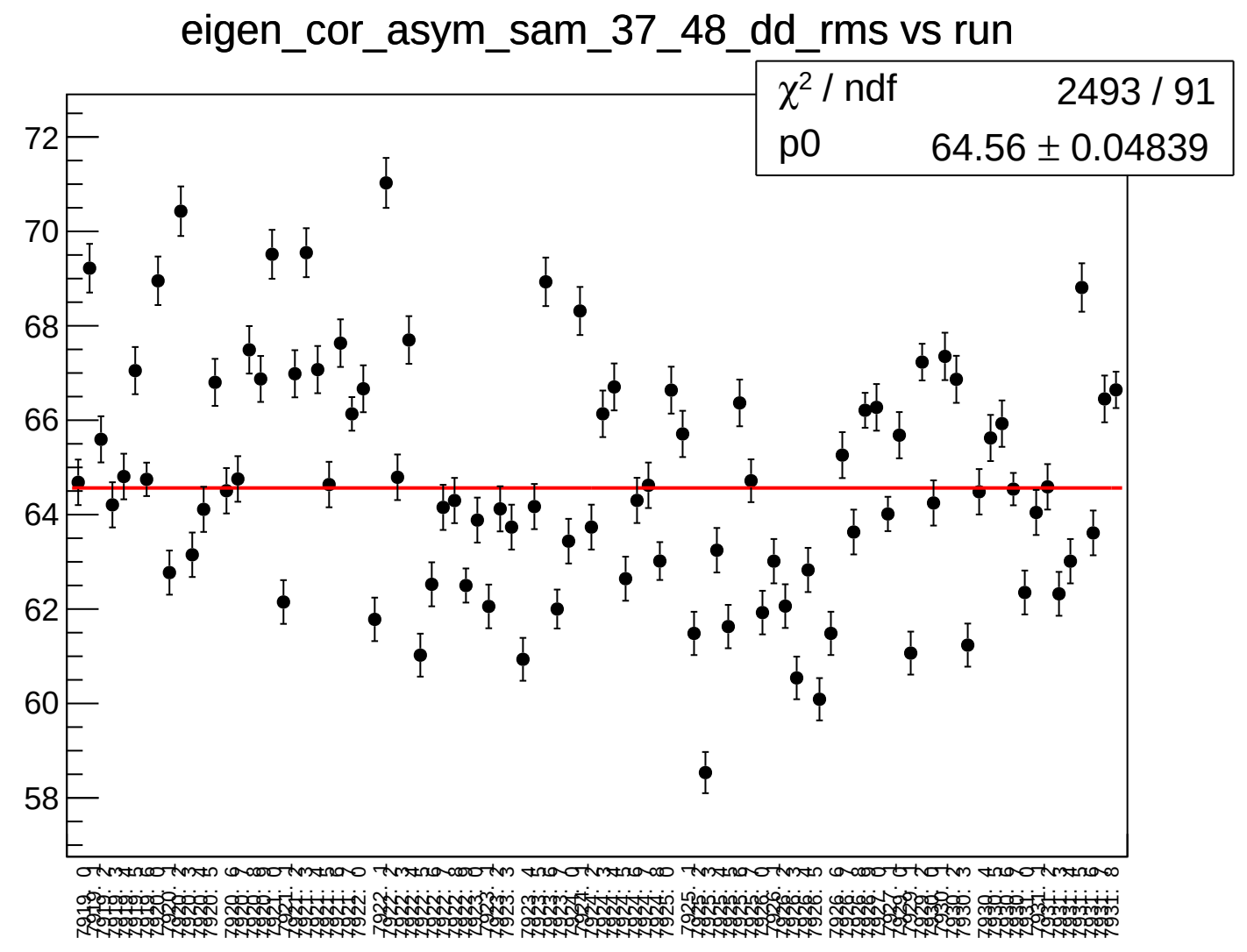

cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 2493 / 91
p0 64.56 ± 0.04839
72
70
68
66
64
62
60
58

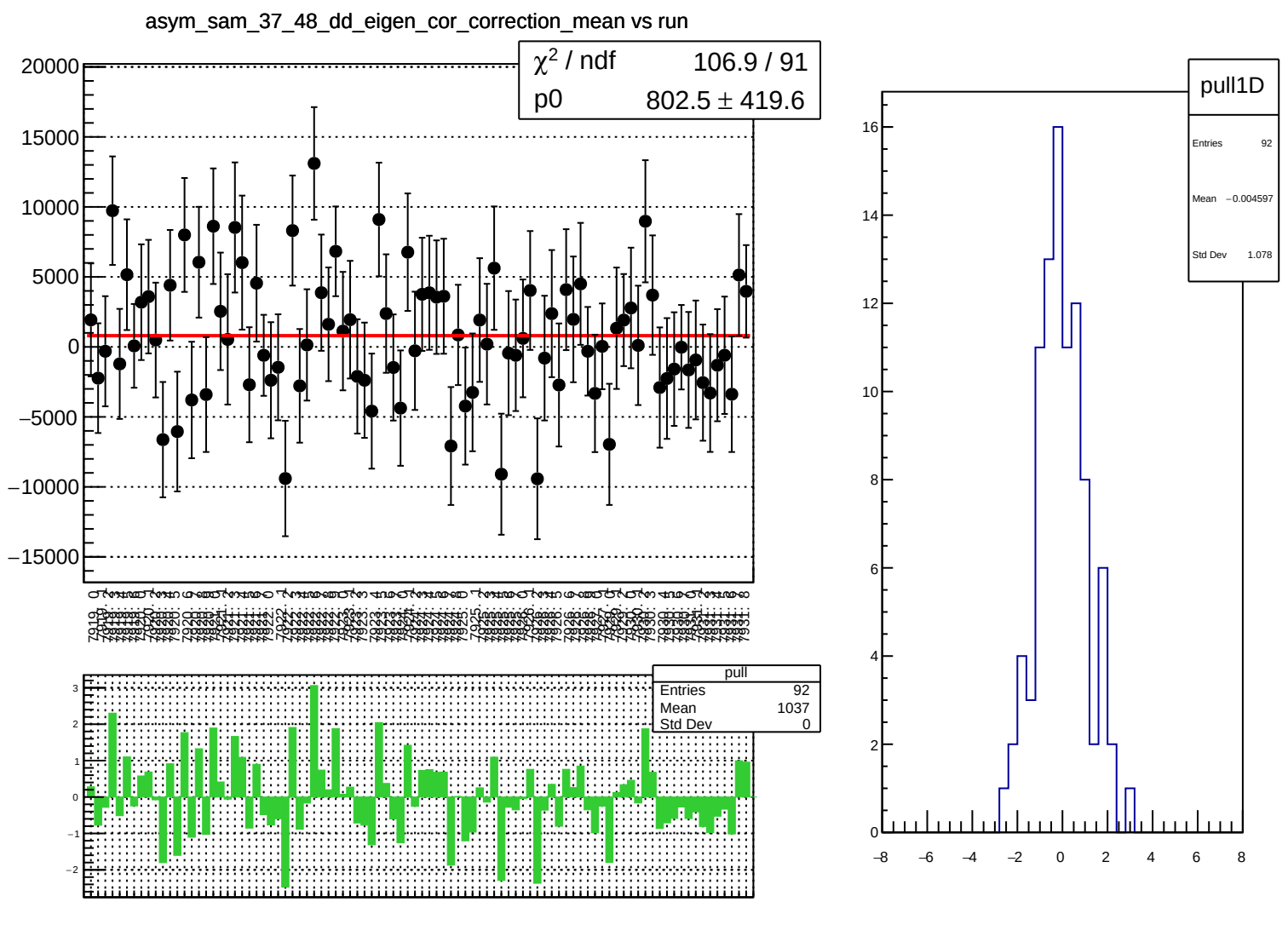

asym_sam_37_48_dd_cor_correction_mean vs run
χ² / ndf 106.9 / 91
p0 802.5 ± 419.6
pull
Entries 92
Mean 1037
Std Dev 0
pull1D
Entries 92
Mean −0.004597
Std Dev 1.078

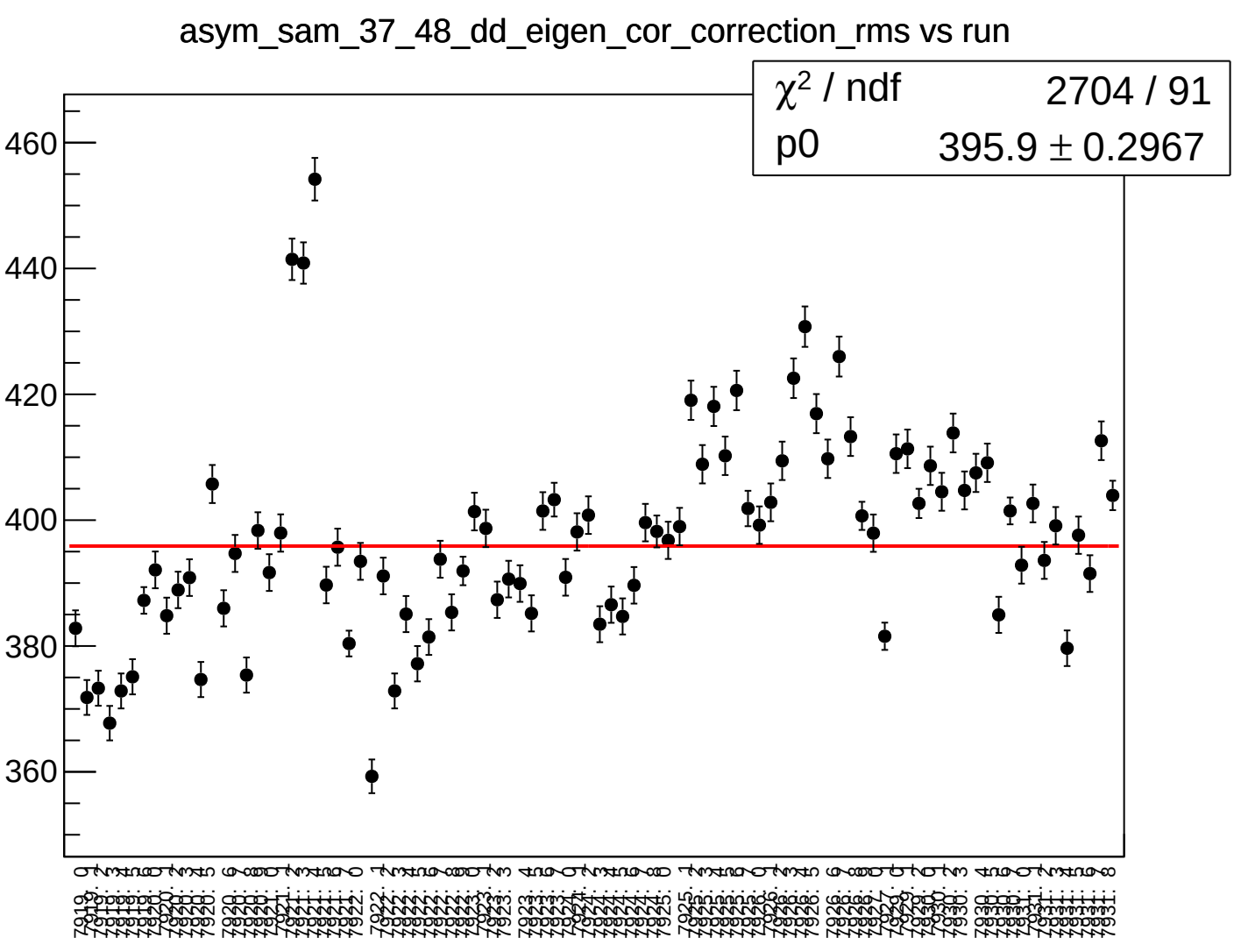

asym_sam_37_48_dd_cor_correction_rms vs run
χ² / ndf 2704 / 91
p0 395.9 ± 0.2967
460
440
420
400
380
360

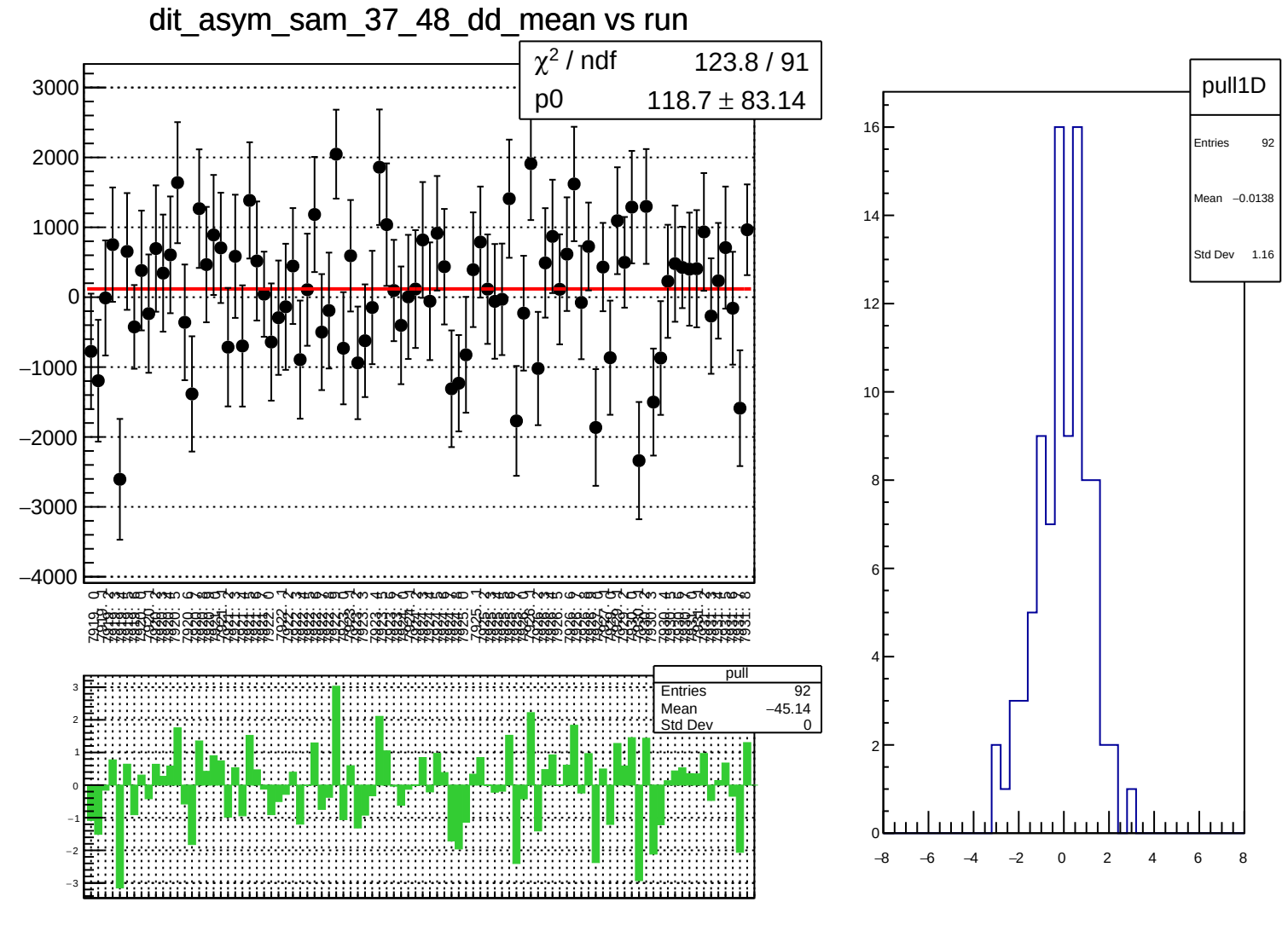

eigen_cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 118.1 / 91
p0 53.07 ± 68.43
pull
Entries 92
Mean −355.1
Std Dev 0

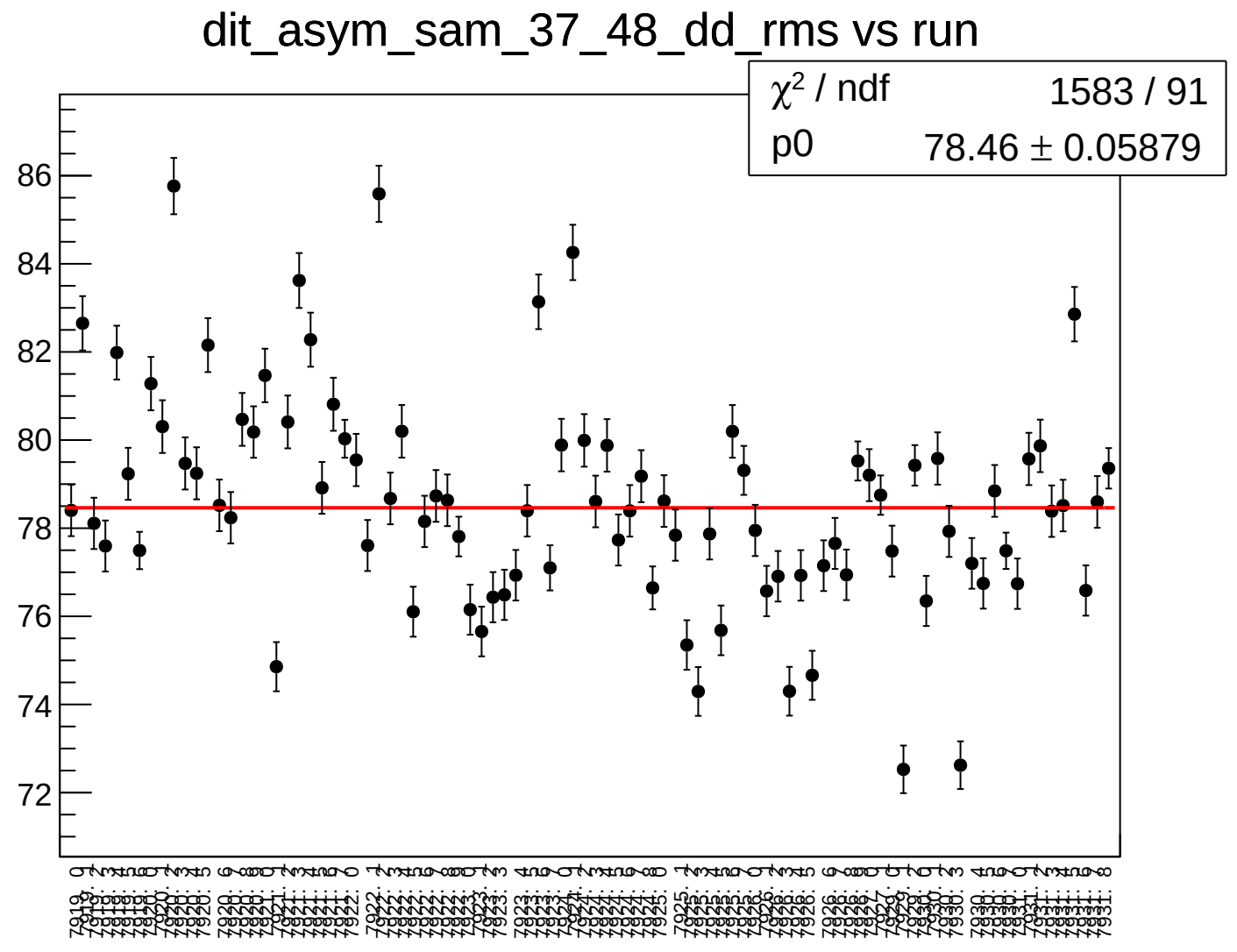

pull1D
Entries 92
Mean −0.004613
Std Dev 1.133

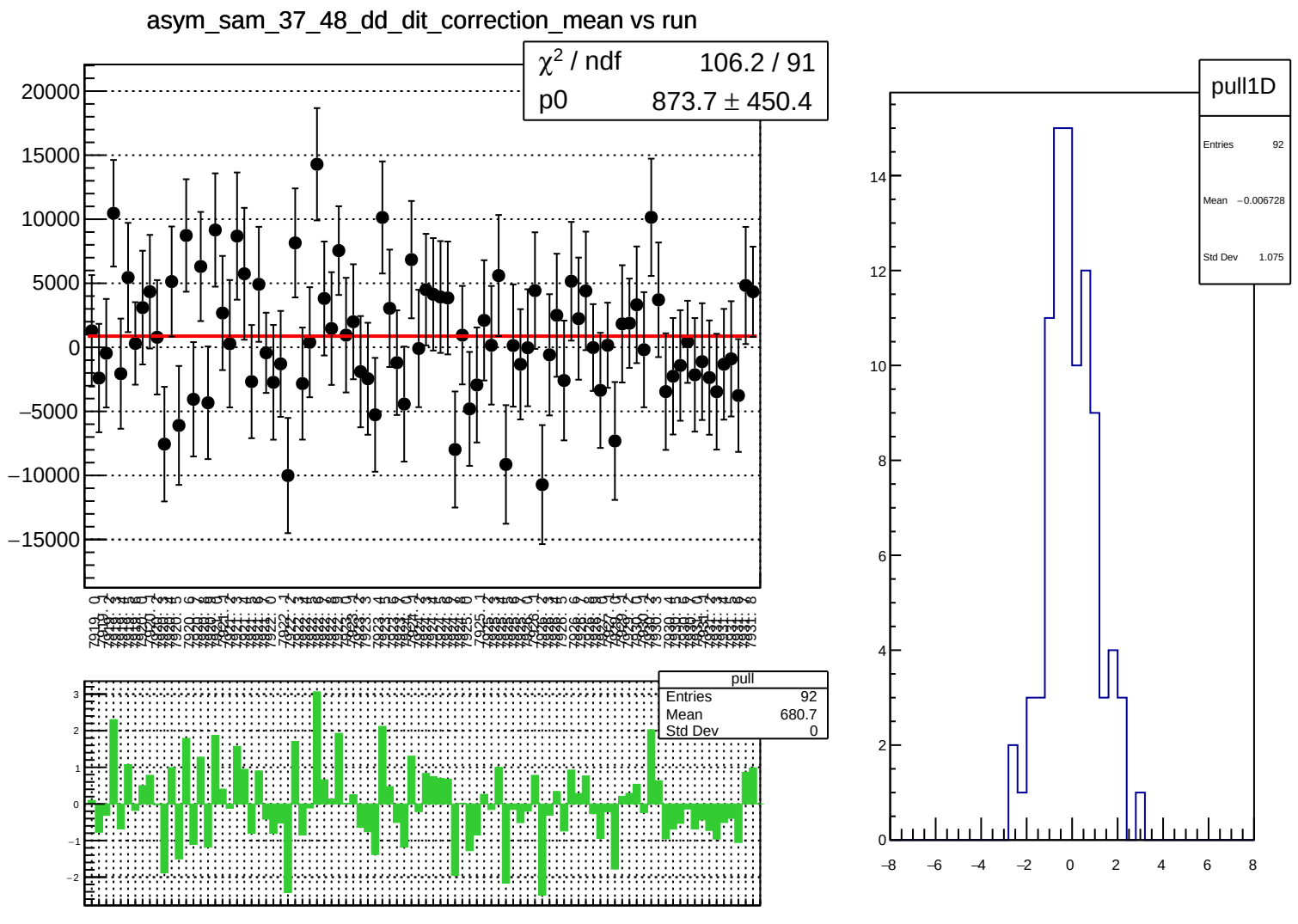

eigen_cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 2493 / 91
p0 64.56 ± 0.04839
72
70
68
66
64
62
60
58

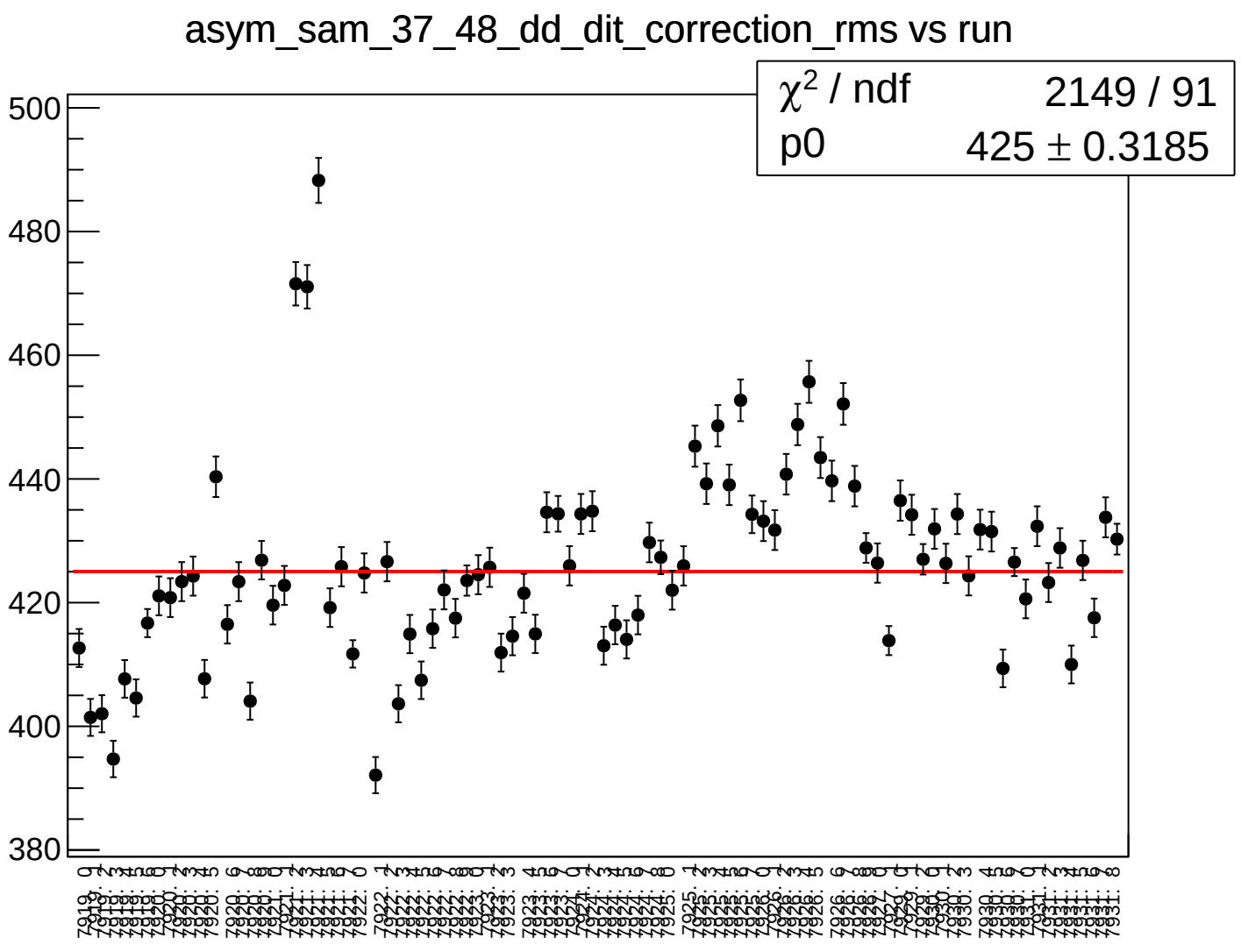

asym_sam_37_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 106.9 / 91
p0 802.5 ± 419.6
pull
Entries 92
Mean 1037
Std Dev 0
pull1D
Entries 92
Mean −0.004597
Std Dev 1.078

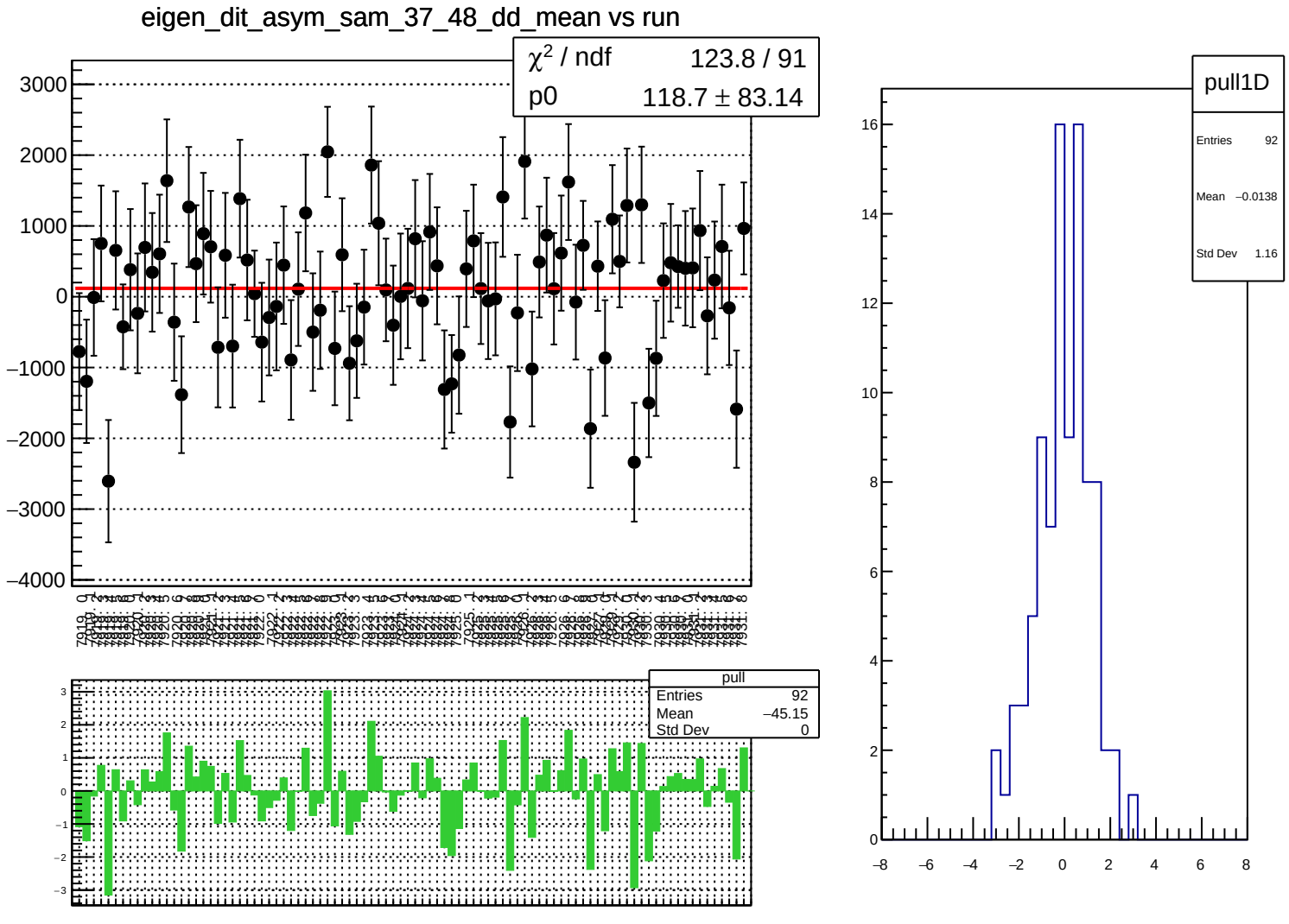

asym_sam_37_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 2704 / 91
p0 395.9 ± 0.2967
460
440
420
400
380
360

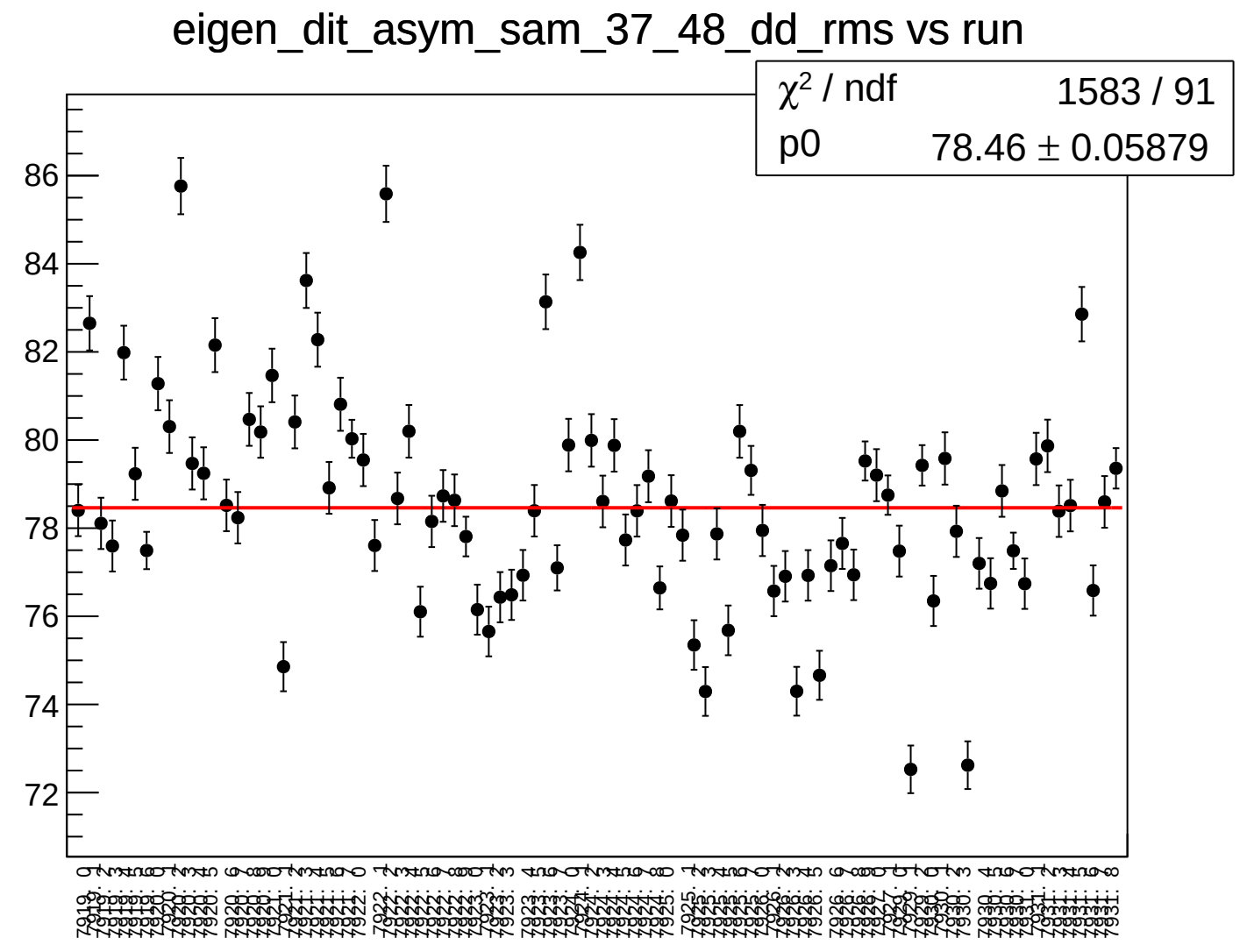

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 123.8 / 91
p0 118.7 ± 83.14
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 92
Mean −45.14
Std Dev 0
pull1D
Entries 92
Mean −0.0138
Std Dev 1.16
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

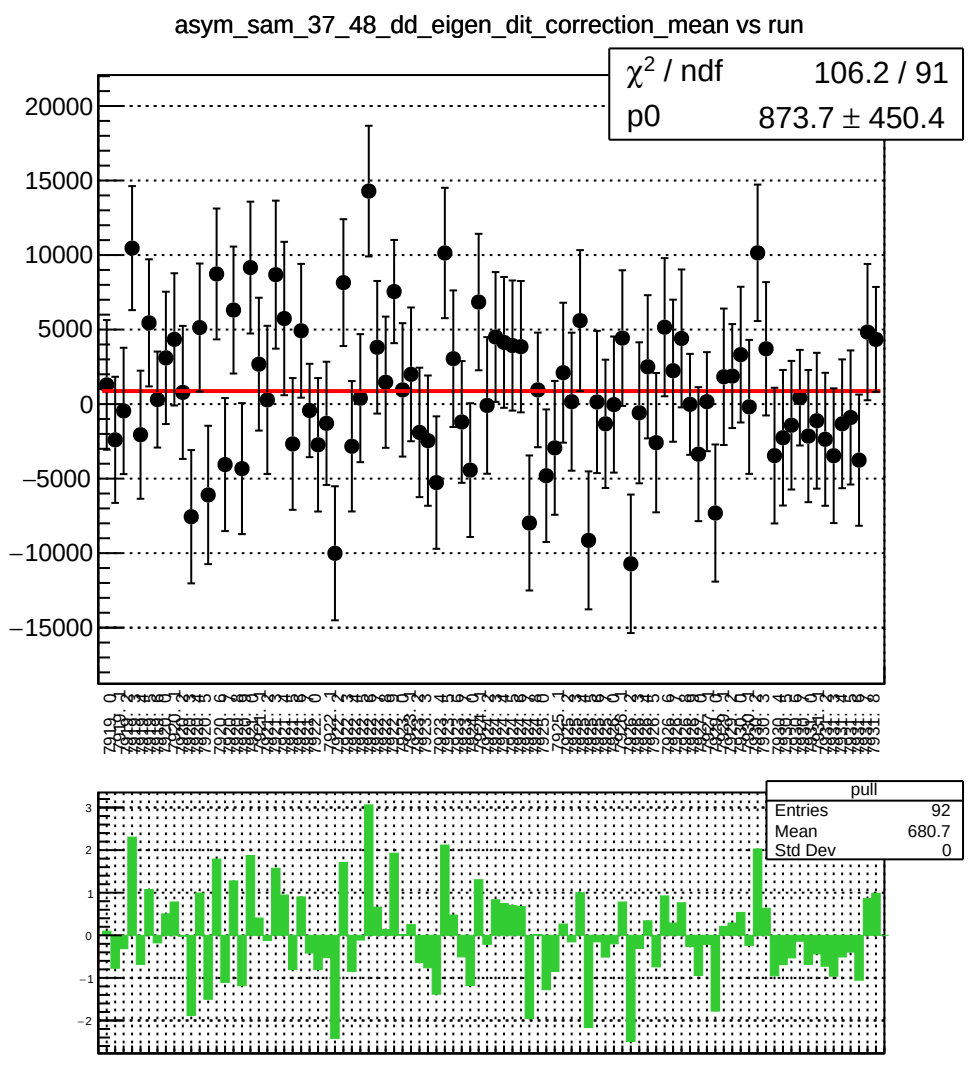

dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 1583 / 91
p0 78.46 ± 0.05879
86
84
82
80
78
76
74
72

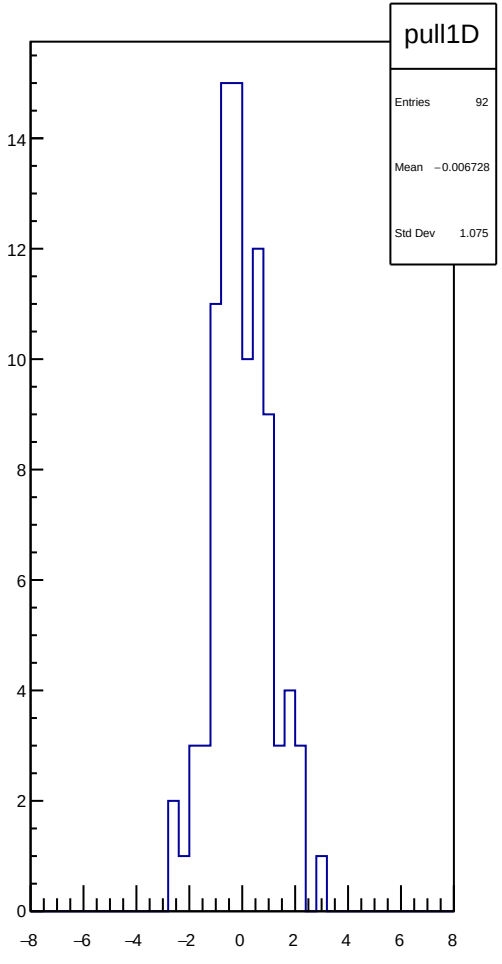

asym_sam_37_48_dd_dit_correction_mean vs run
χ² / ndf 106.2 / 91
p0 873.7 ± 450.4
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean 680.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.006728
Std Dev 1.075
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

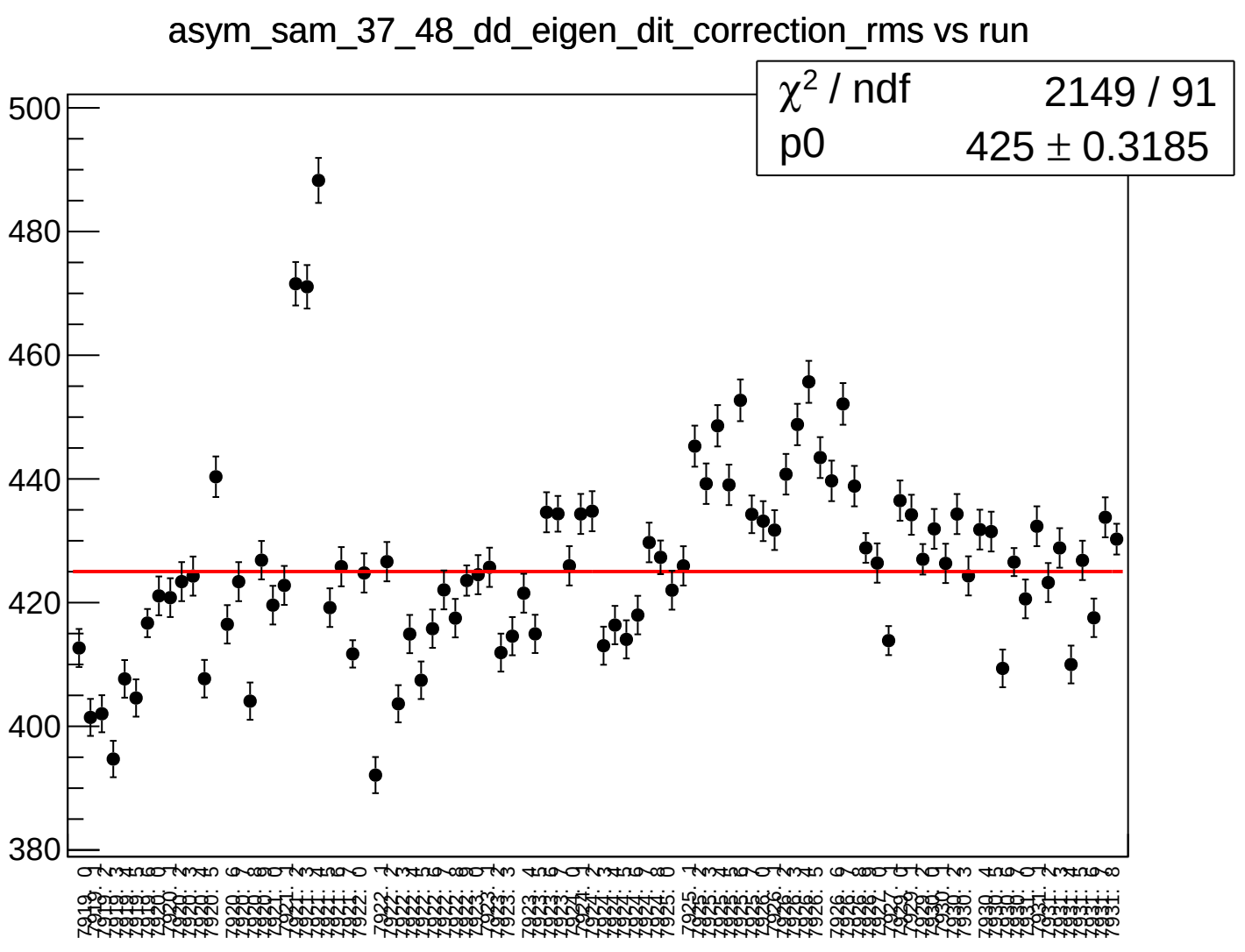

asym_sam_37_48_dd_dit_correction_rms vs run
χ² / ndf 2149 / 91
p0 425 ± 0.3185
500
480
460
440
420
400
380

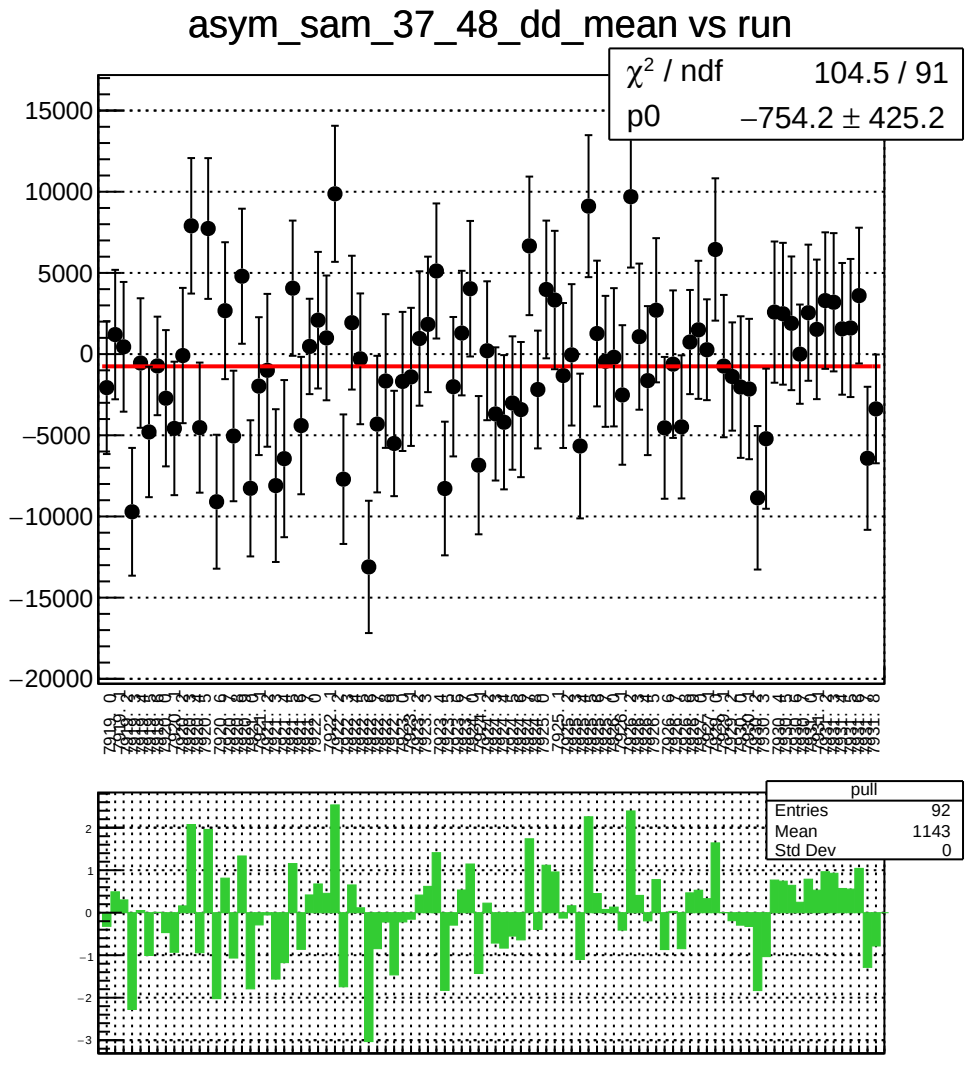

eigen_dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 123.8 / 91
p0 118.7 ± 83.14
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 92
Mean −45.15
Std Dev 0
pull1D
Entries 92
Mean −0.0138
Std Dev 1.16
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

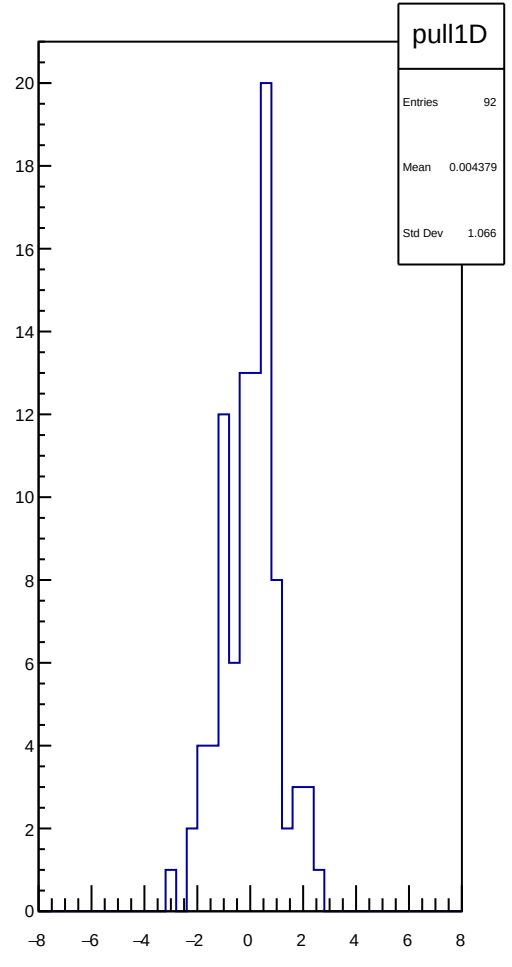

eigen_dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 1583 / 91
p0 78.46 ± 0.05879
86
84
82
80
78
76
74
72

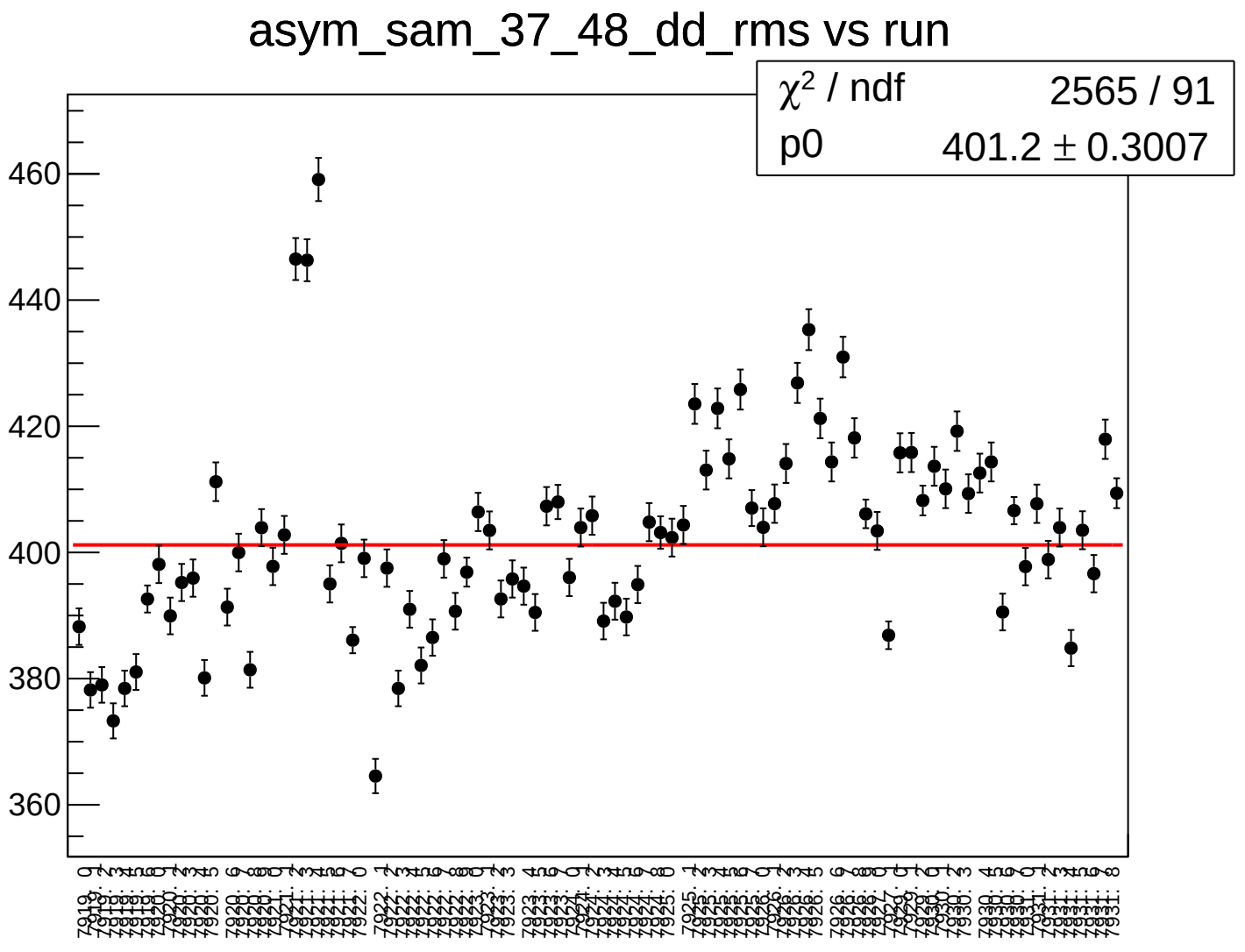

asym_sam_37_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 106.2 / 91
p0 873.7 ± 450.4
pull
Entries 92
Mean 680.7
Std Dev 0

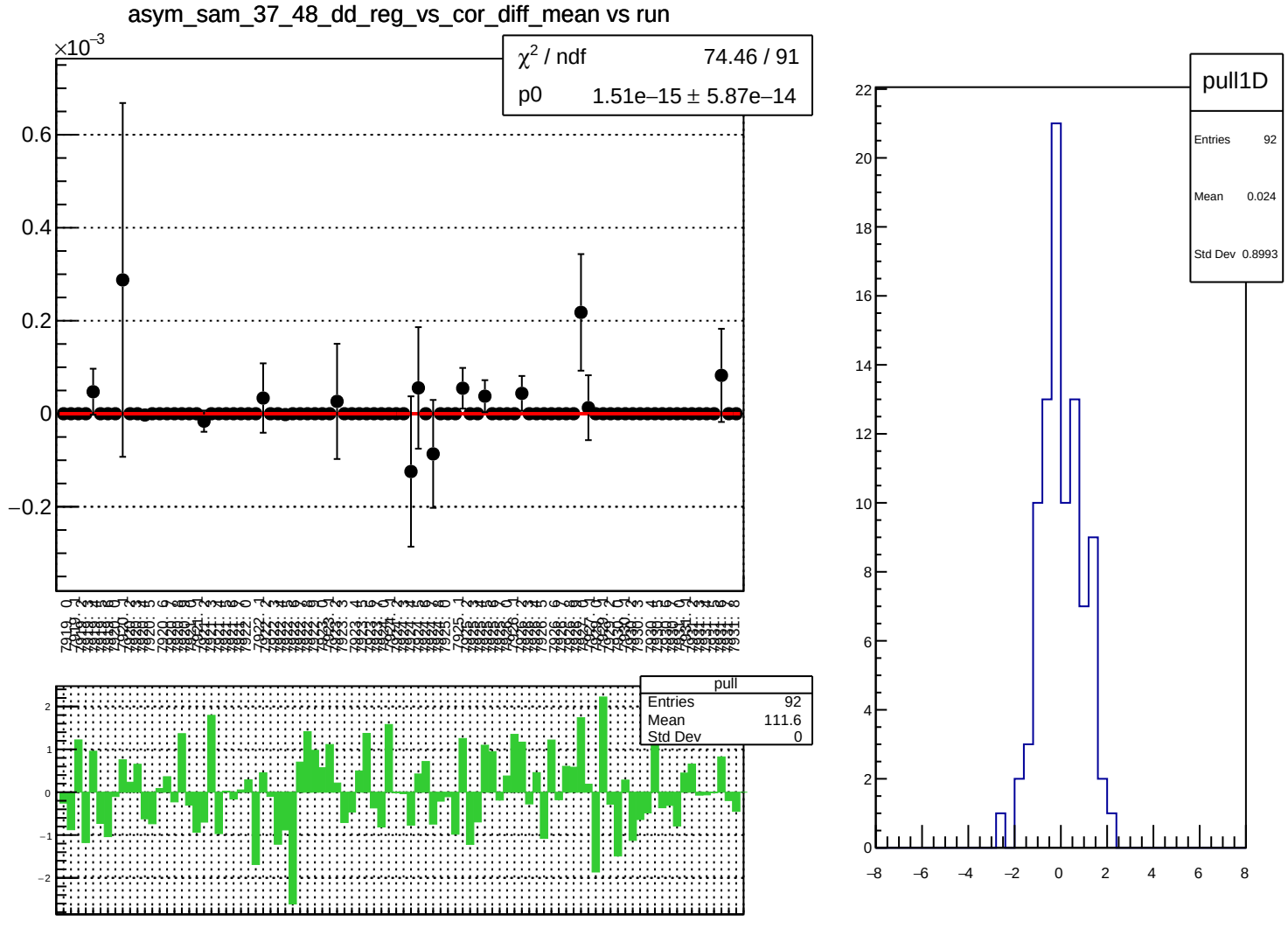

pull1D
Entries 92
Mean −0.006728
Std Dev 1.075

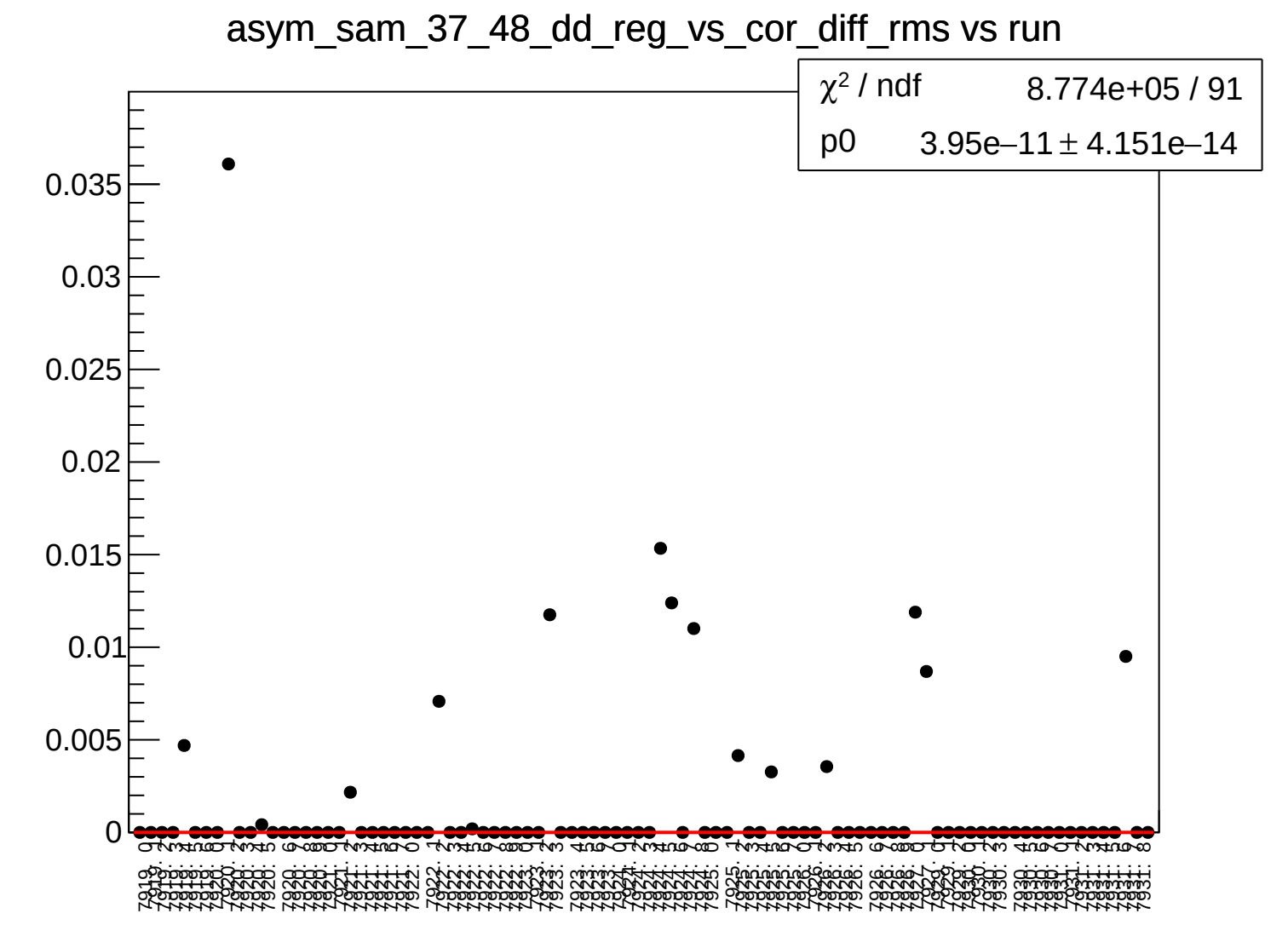

asym_sam_37_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 2149 / 91
p0 425 ± 0.3185
500
480
460
440
420
400
380

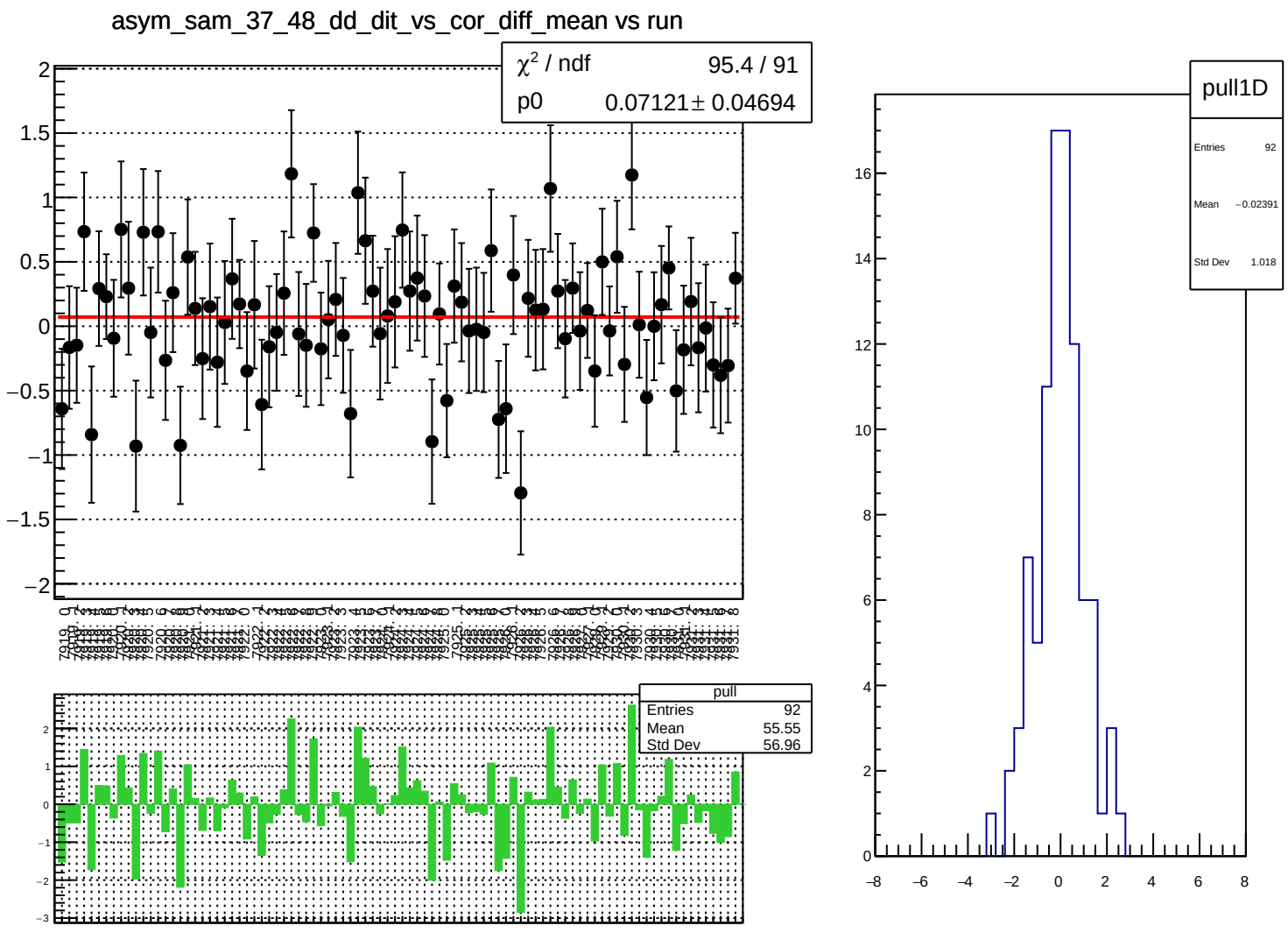

asym_sam_37_48_dd_mean vs run
χ² / ndf 104.5 / 91
p0 −754.2 ± 425.2
pull
Entries 92
Mean 1143
Std Dev 0

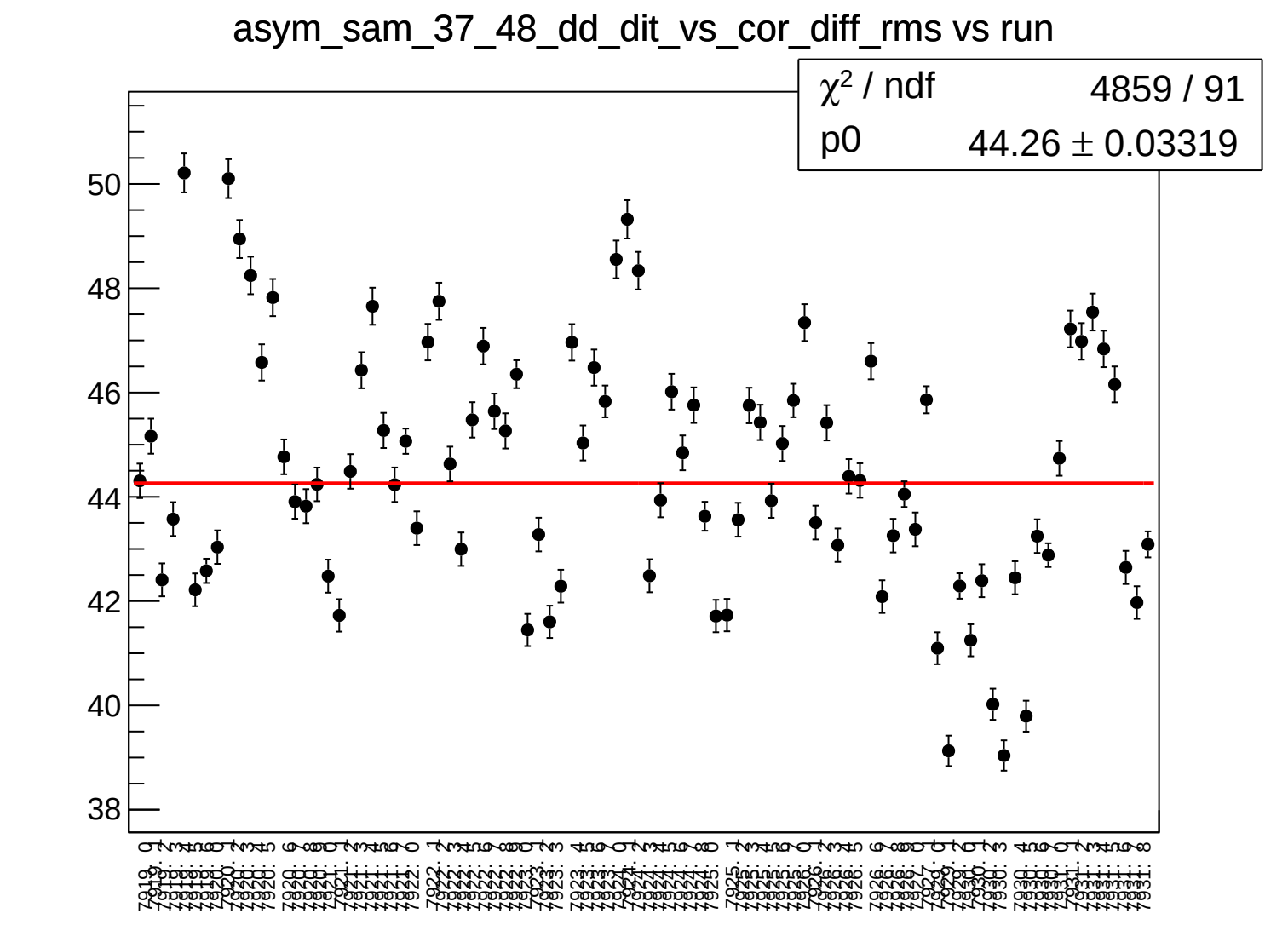

pull1D
Entries 92
Mean 0.004379
Std Dev 1.066

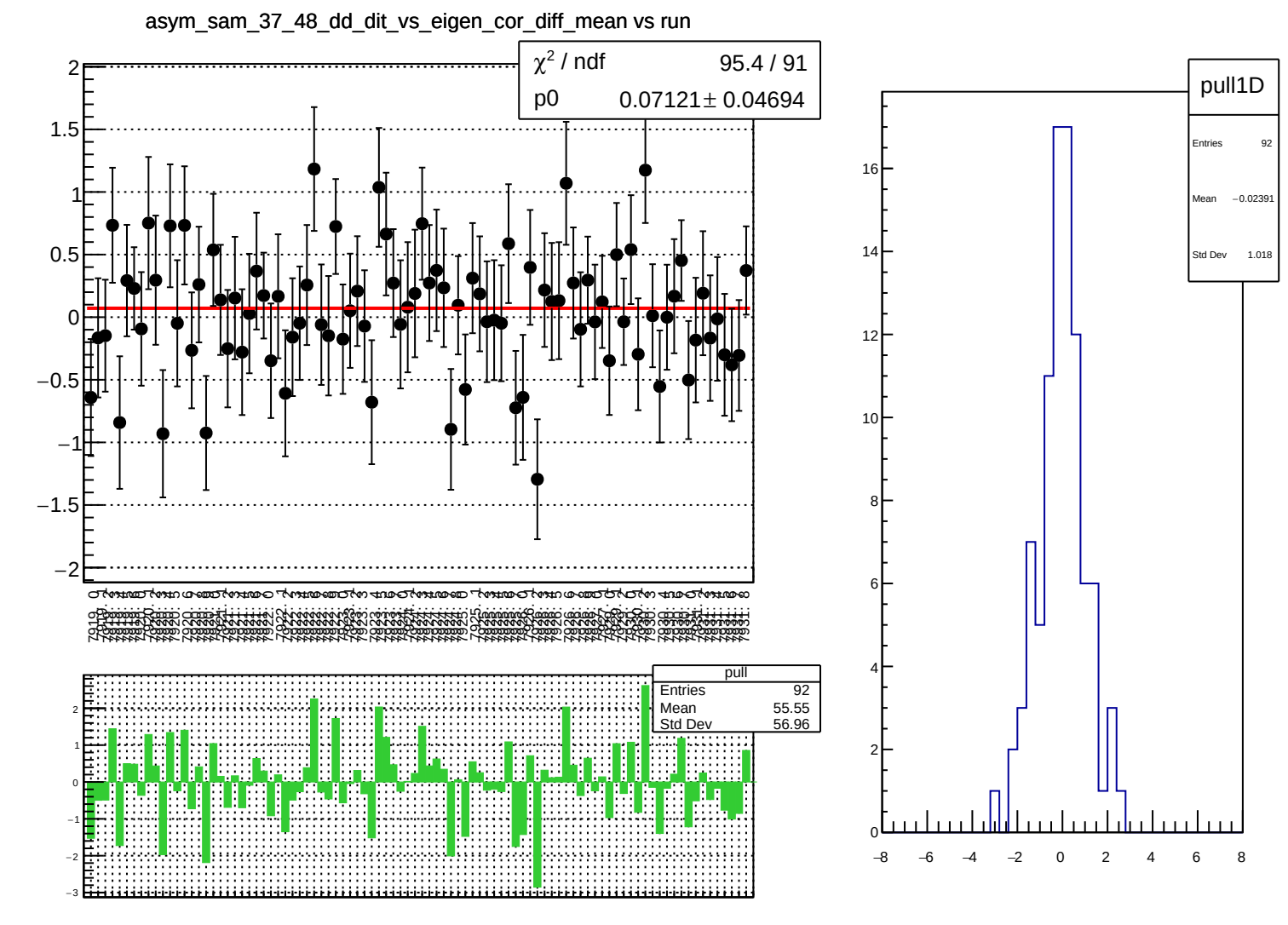

asym_sam_37_48_dd_rms vs run
χ² / ndf 2565 / 91
p0 401.2 ± 0.3007
460
440
420
400
380
360

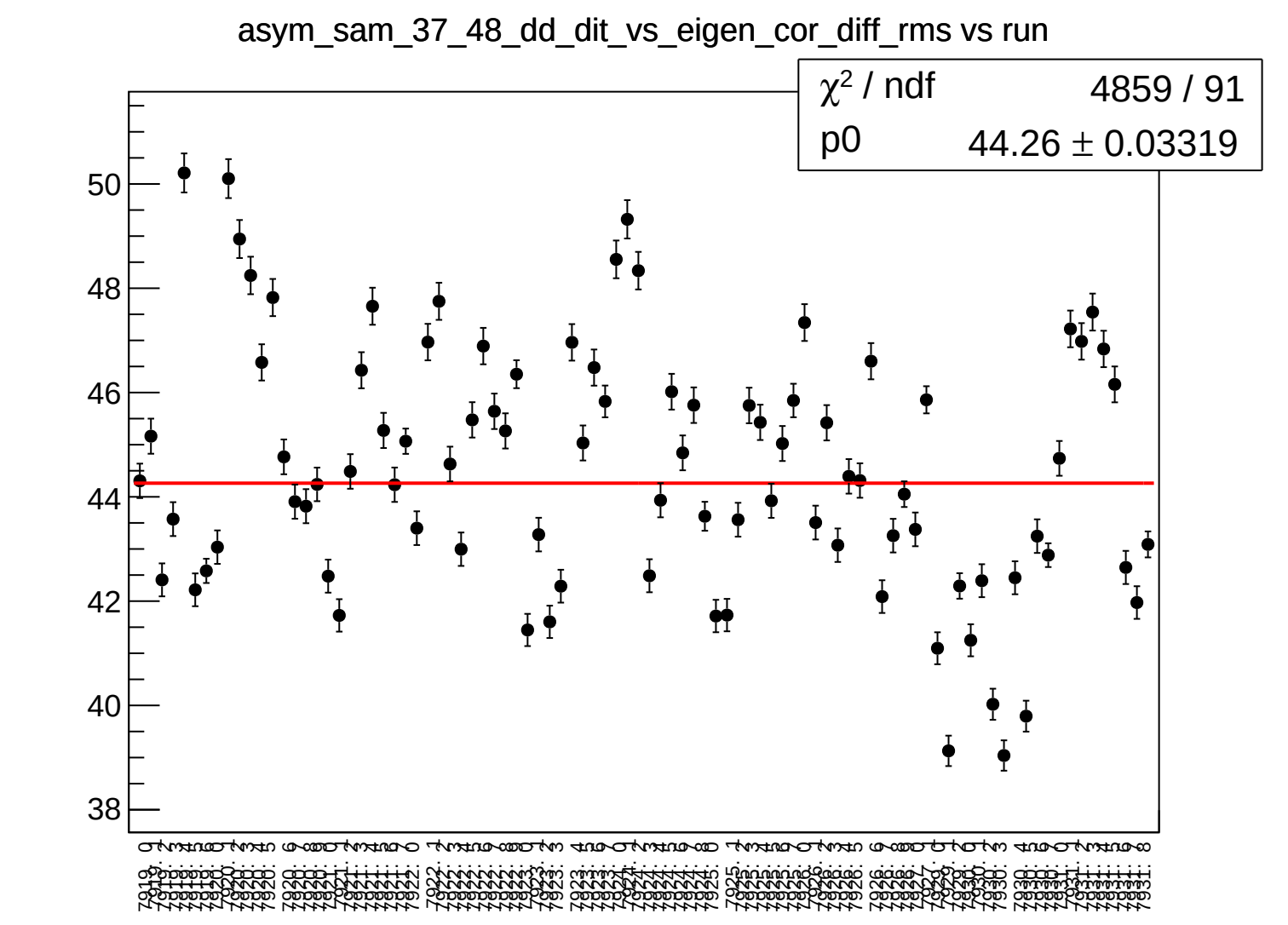

asym_sam_37_48_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 74.46 / 91
p0 1.51e−15 ± 5.87e−14
0.6
0.4
0.2
0
−0.2
pull
Entries 92
Mean 111.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.024
Std Dev 0.8993
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

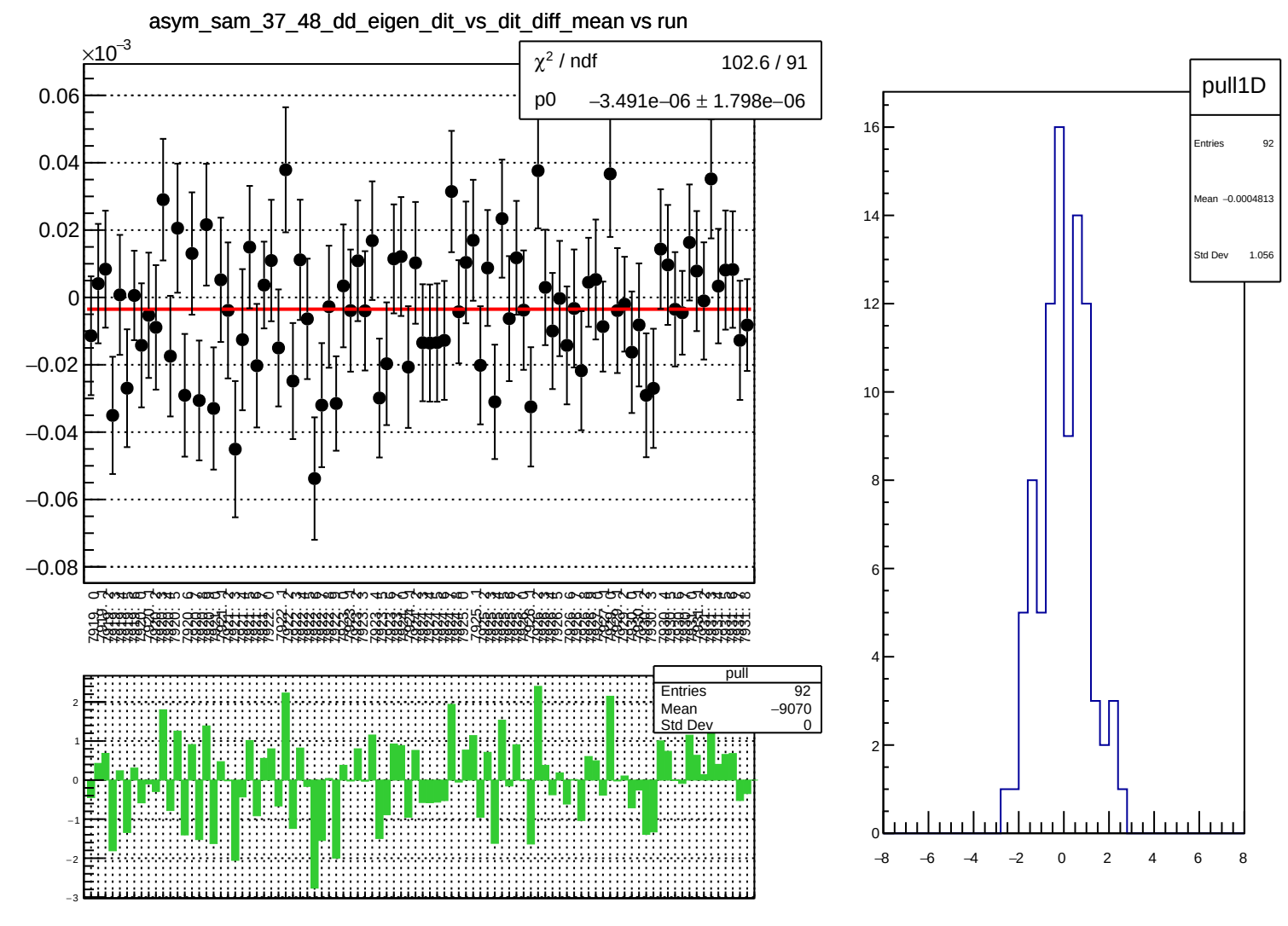

asym_sam_37_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.774e+05 / 91
p0 3.95e−11 ± 4.151e−14
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

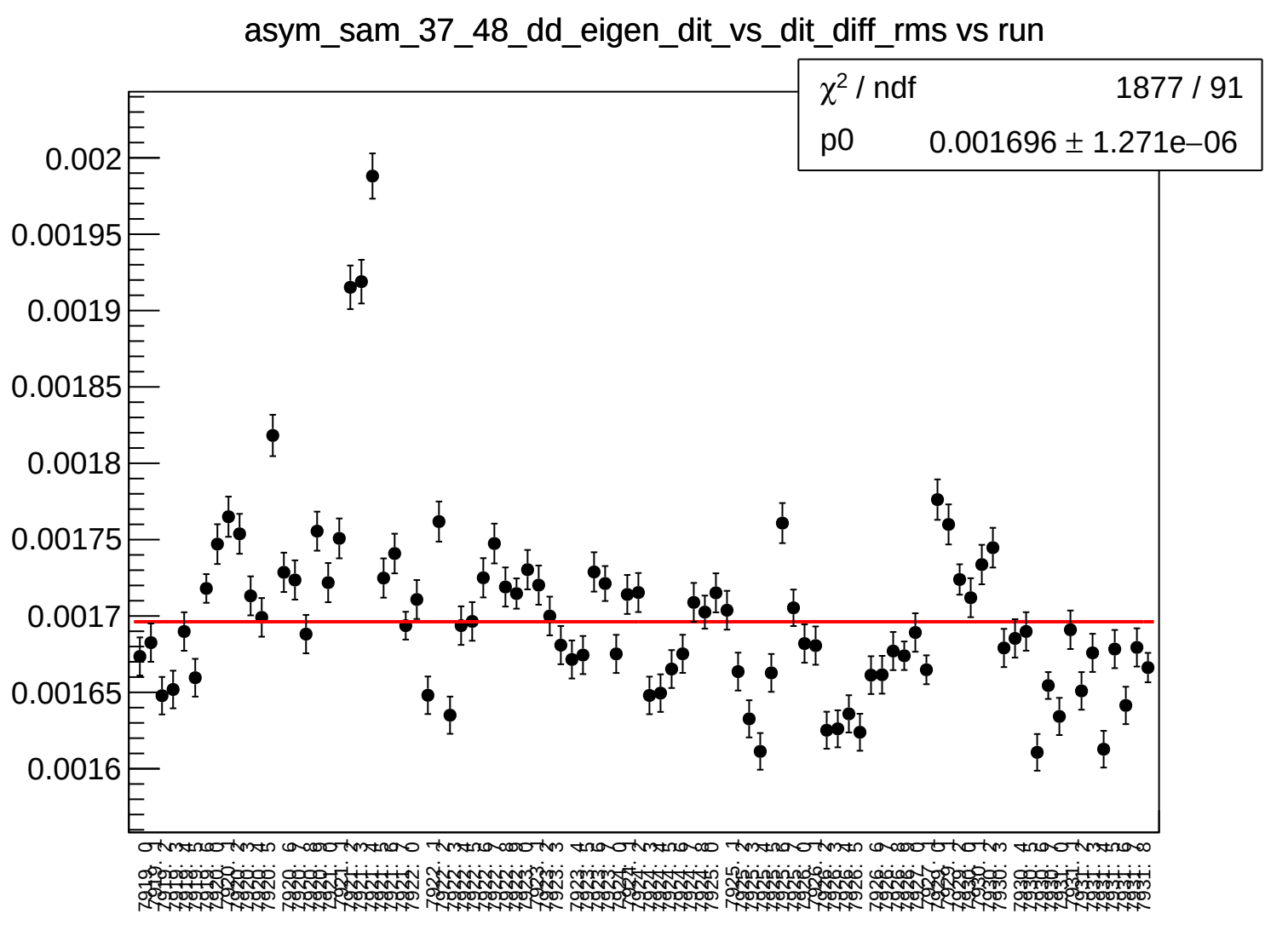

asym_sam_37_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 95.4 / 91
p0 0.07121 ± 0.04694
pull
Entries 92
Mean 55.55
Std Dev 56.96
pull1D
Entries 92
Mean −0.02391
Std Dev 1.018

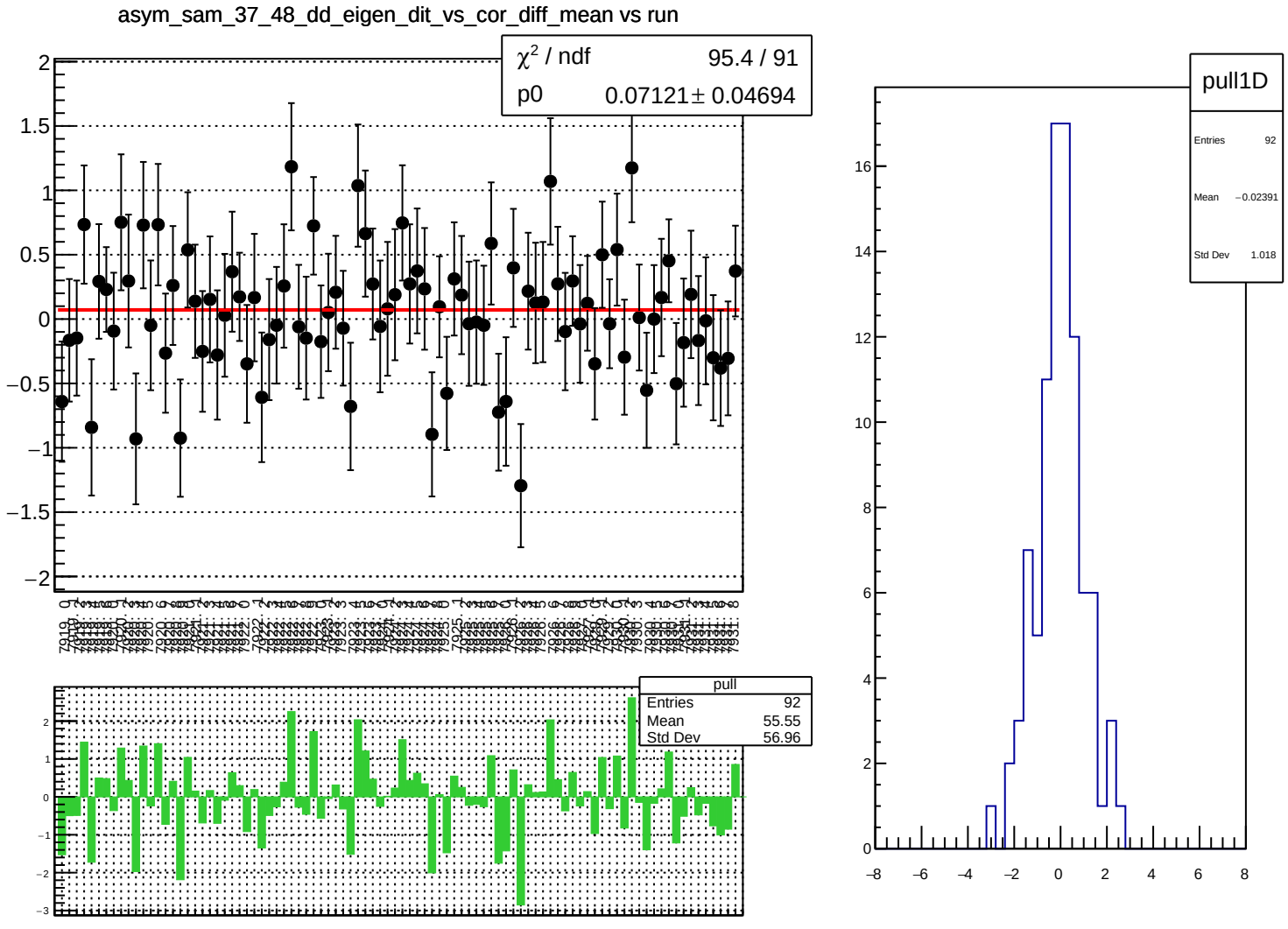

asym_sam_37_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4859 / 91
p0 44.26 ± 0.03319
50
48
46
44
42
40
38

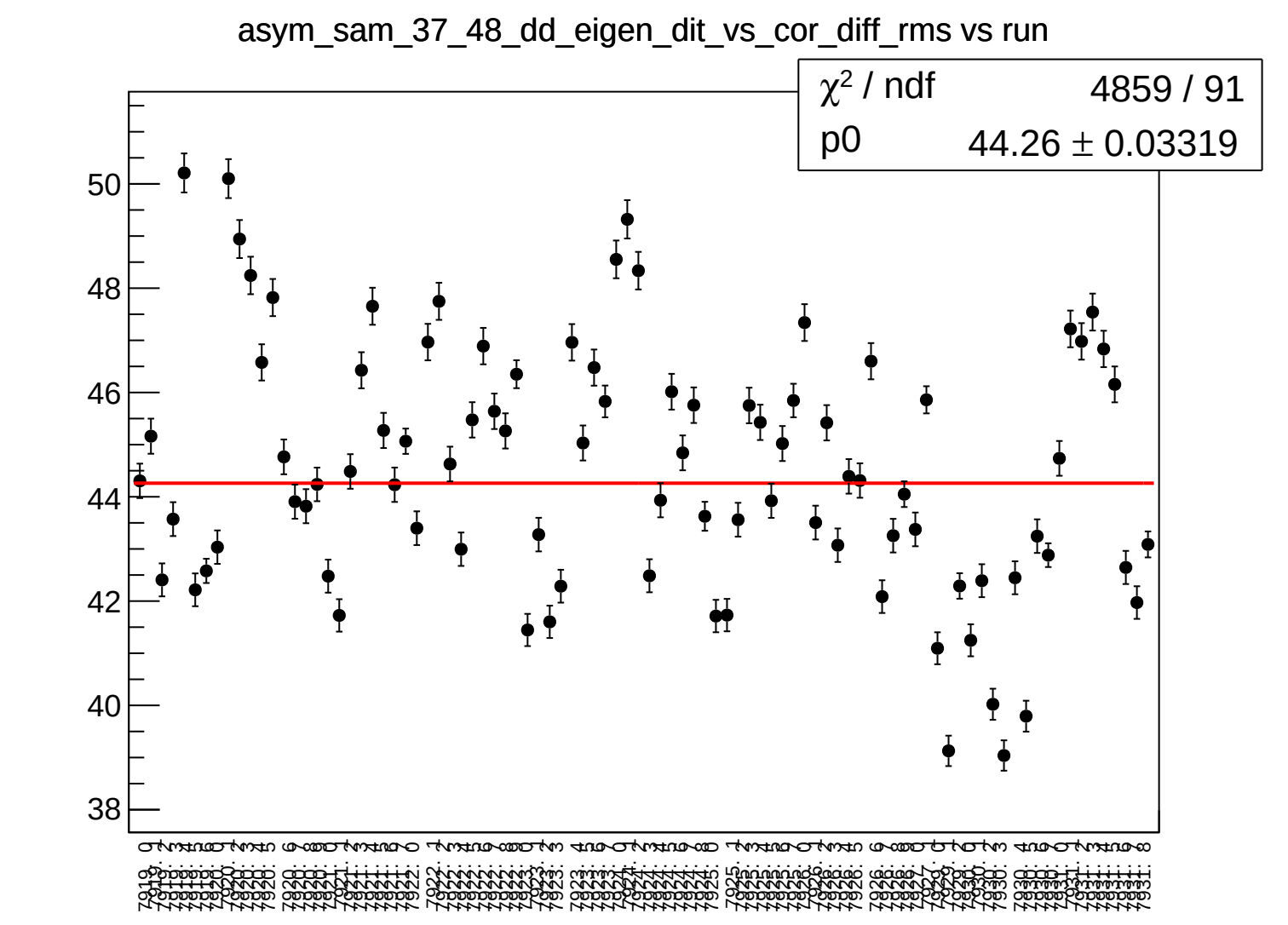

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.4 / 91
p0 0.07121 ± 0.04694
pull
Entries 92
Mean 55.55
Std Dev 56.96
pull1D
Entries 92
Mean −0.02391
Std Dev 1.018

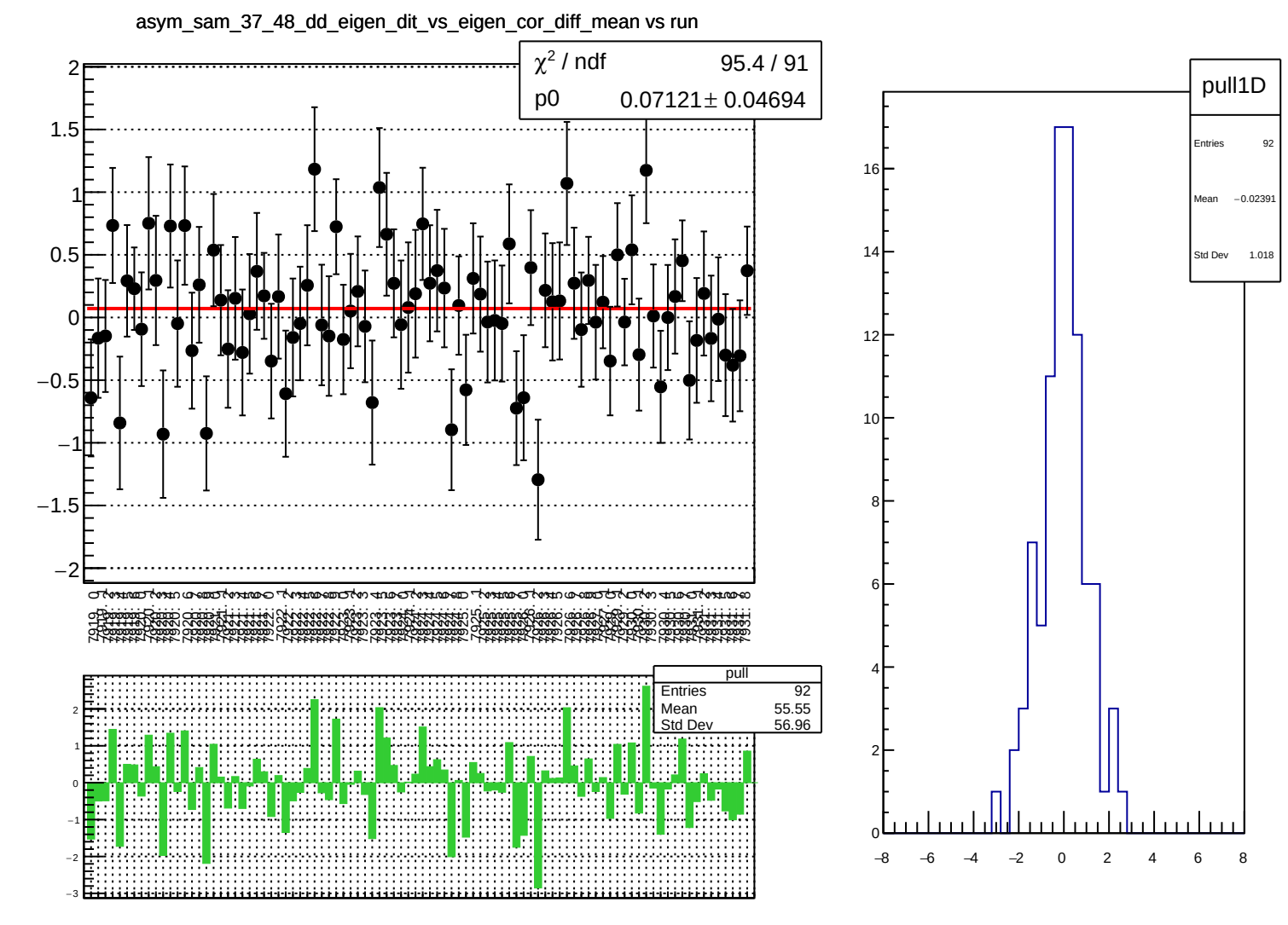

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4859 / 91
p0 44.26 ± 0.03319
50
48
46
44
42
40
38

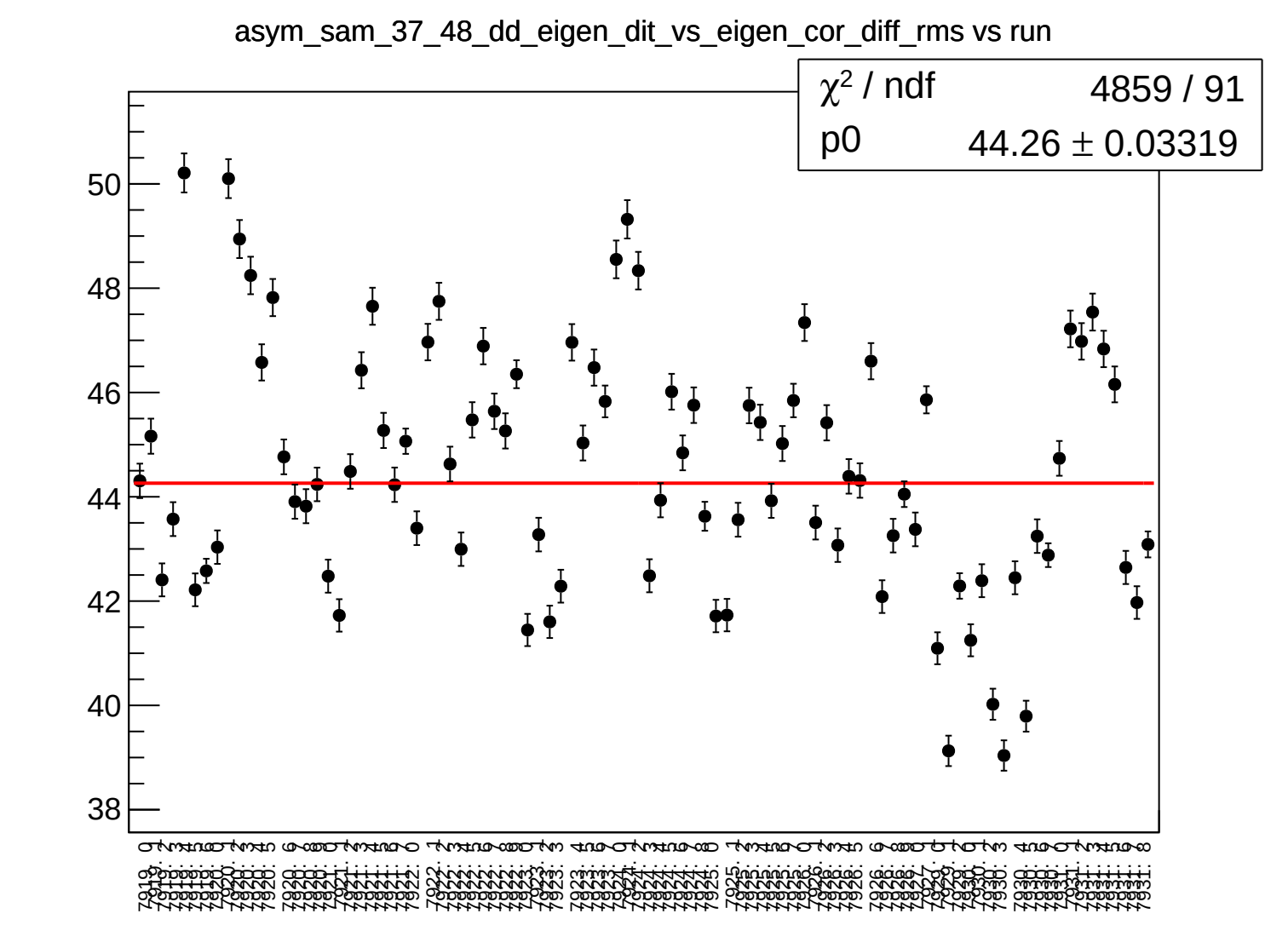

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 102.6 / 91
p0 −3.491e−06 ± 1.798e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 92
Mean −9070
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.0004813
Std Dev 1.056
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

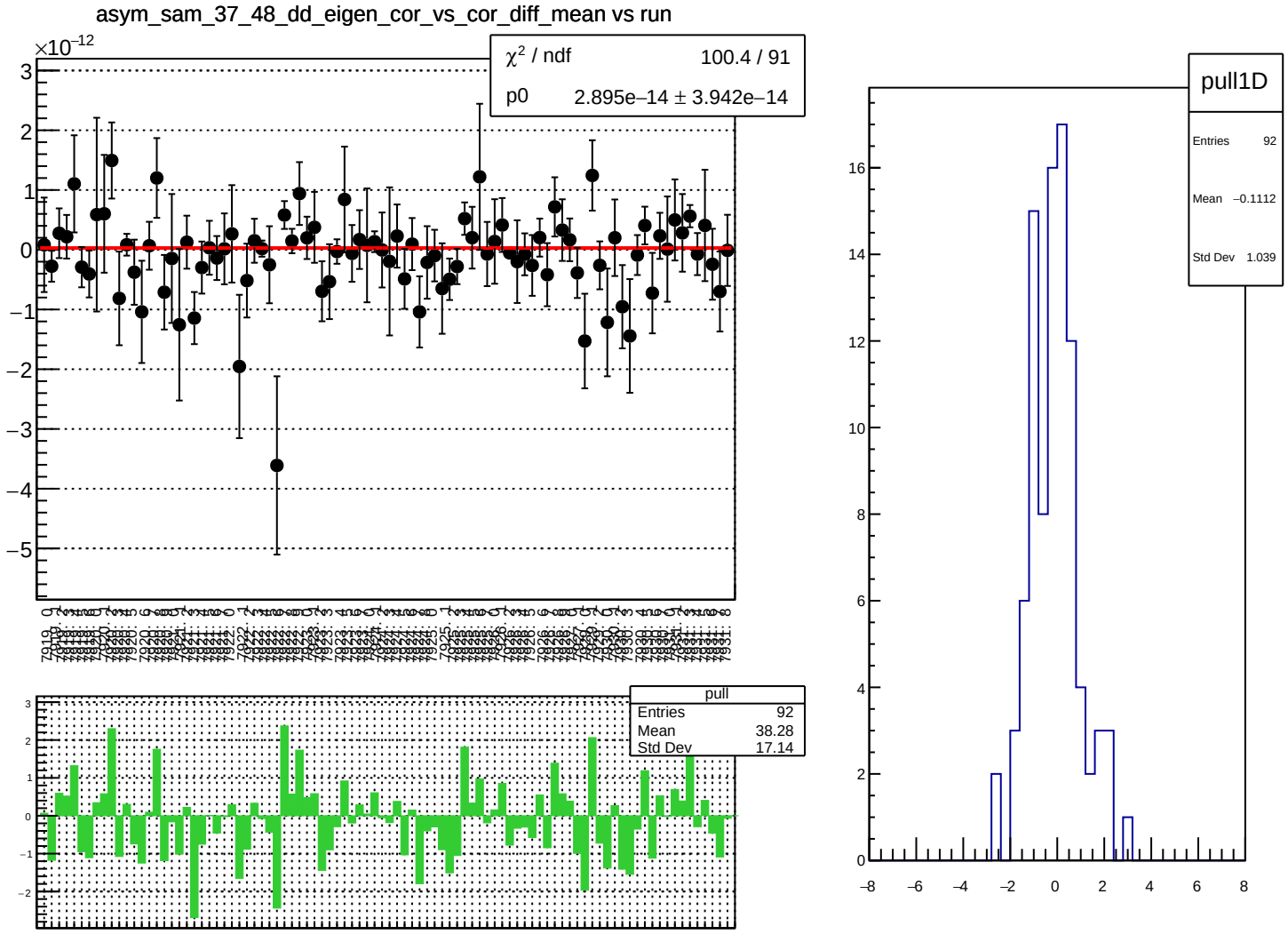

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1877 / 91
p0 0.001696 ± 1.271e−06
0.002
0.00195
0.0019
0.00185
0.0018
0.00175
0.0017
0.00165
0.0016

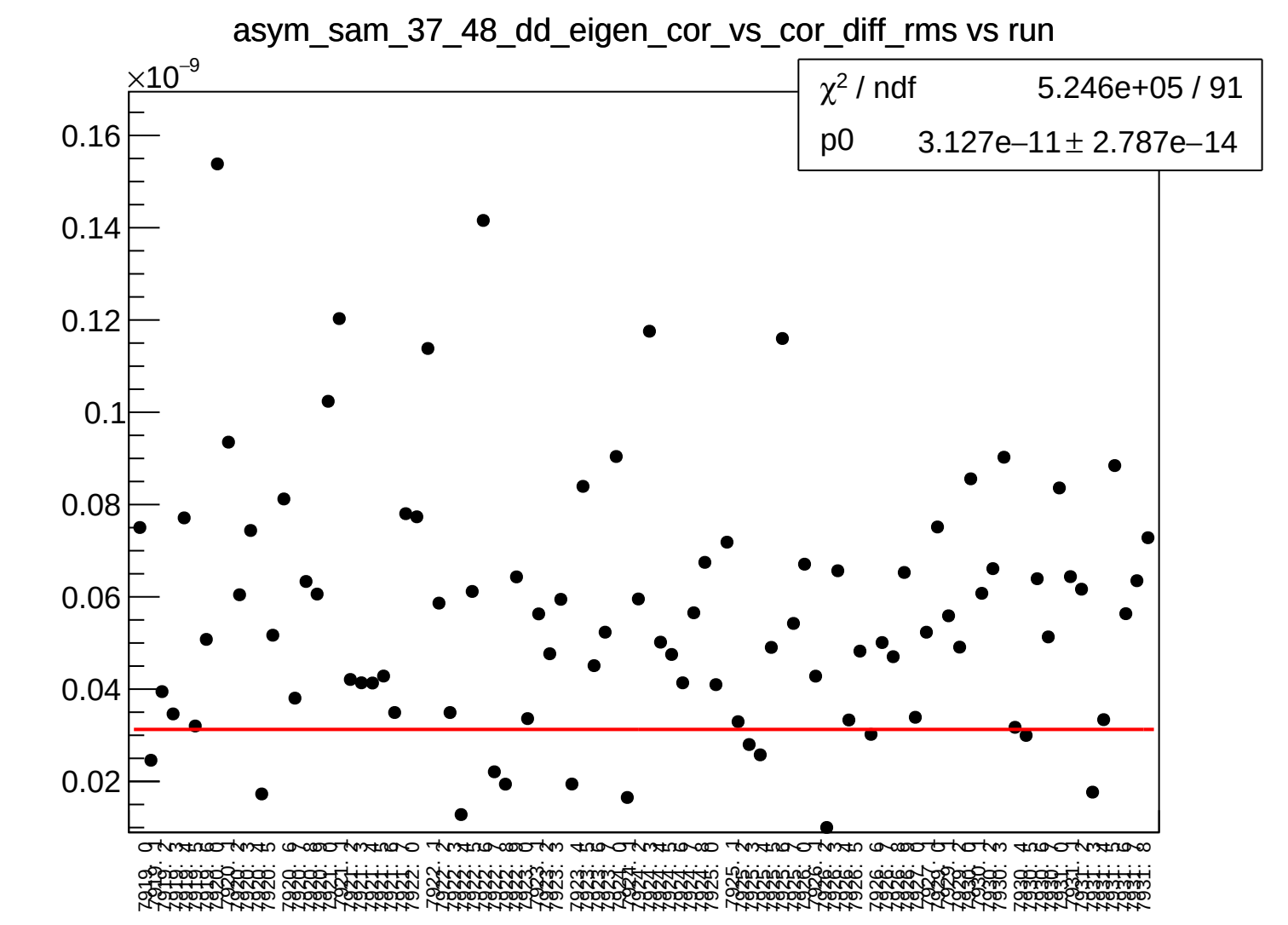

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.4 / 91
p0 0.07121 ± 0.04694
pull
Entries 92
Mean 55.55
Std Dev 56.96
pull1D
Entries 92
Mean −0.02391
Std Dev 1.018

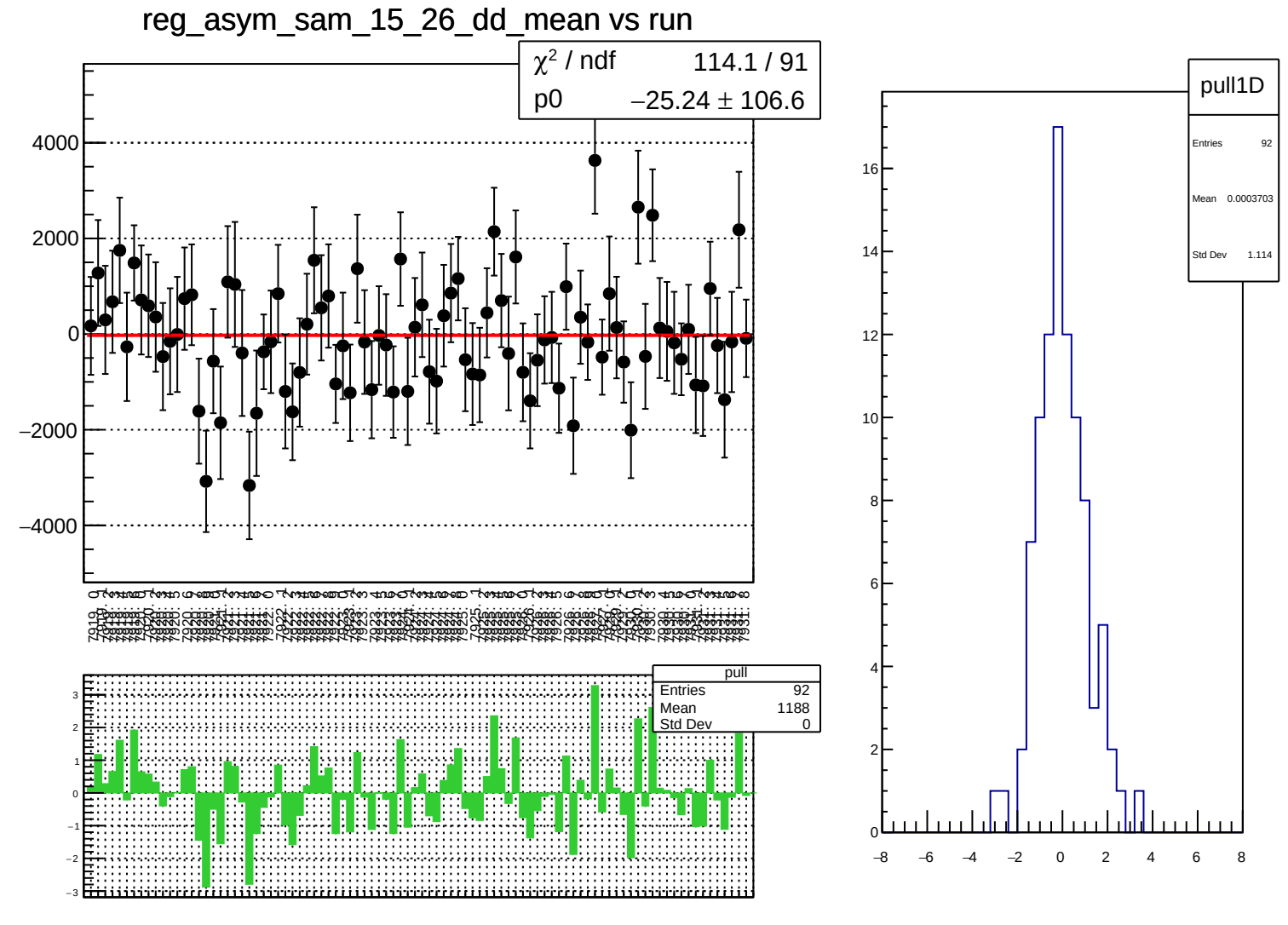

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4859 / 91
p0 44.26 ± 0.03319
50
48
46
44
42
40
38

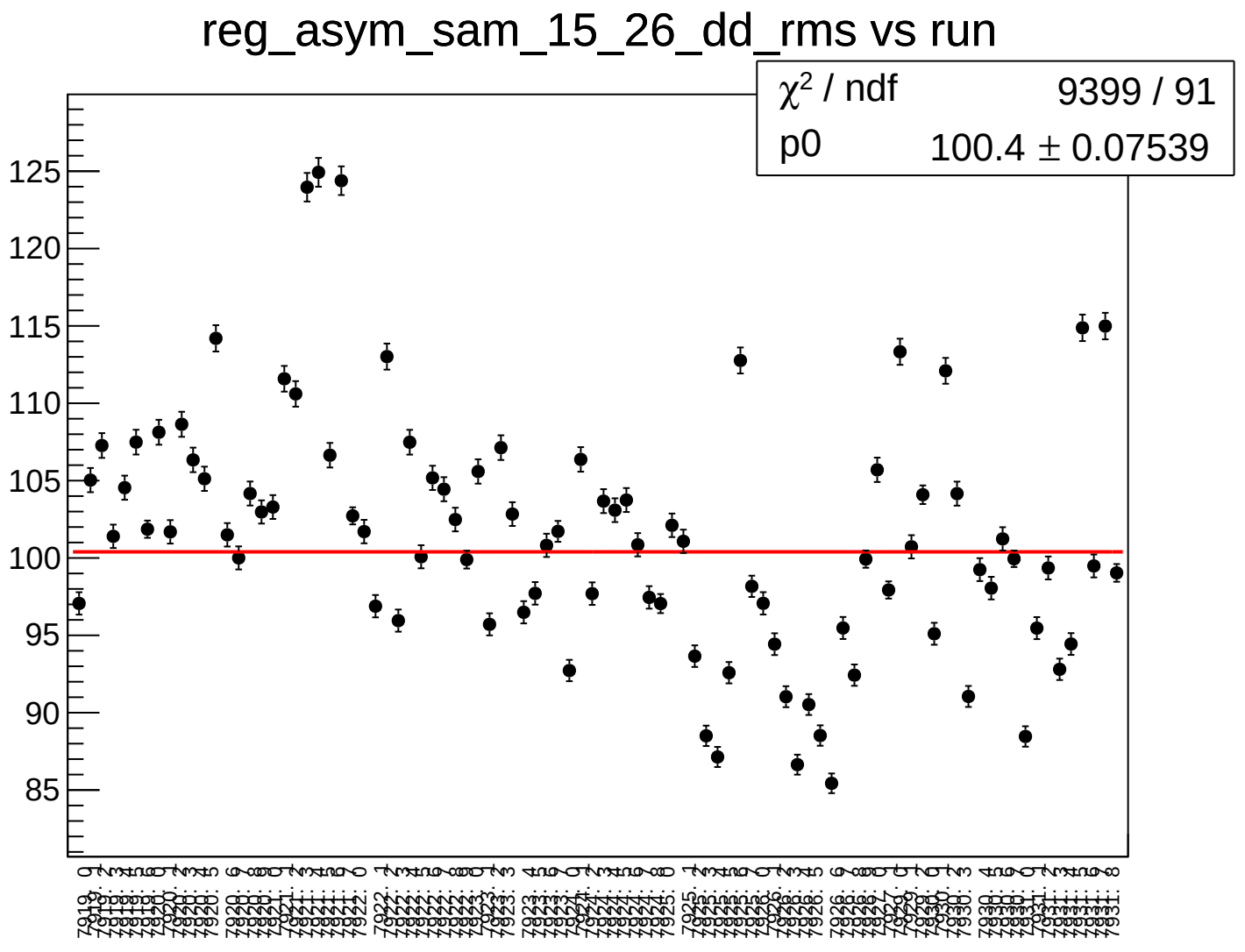

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.4 / 91
p0 0.07121 ± 0.04694
pull
Entries 92
Mean 55.55
Std Dev 56.96
pull1D
Entries 92
Mean −0.02391
Std Dev 1.018

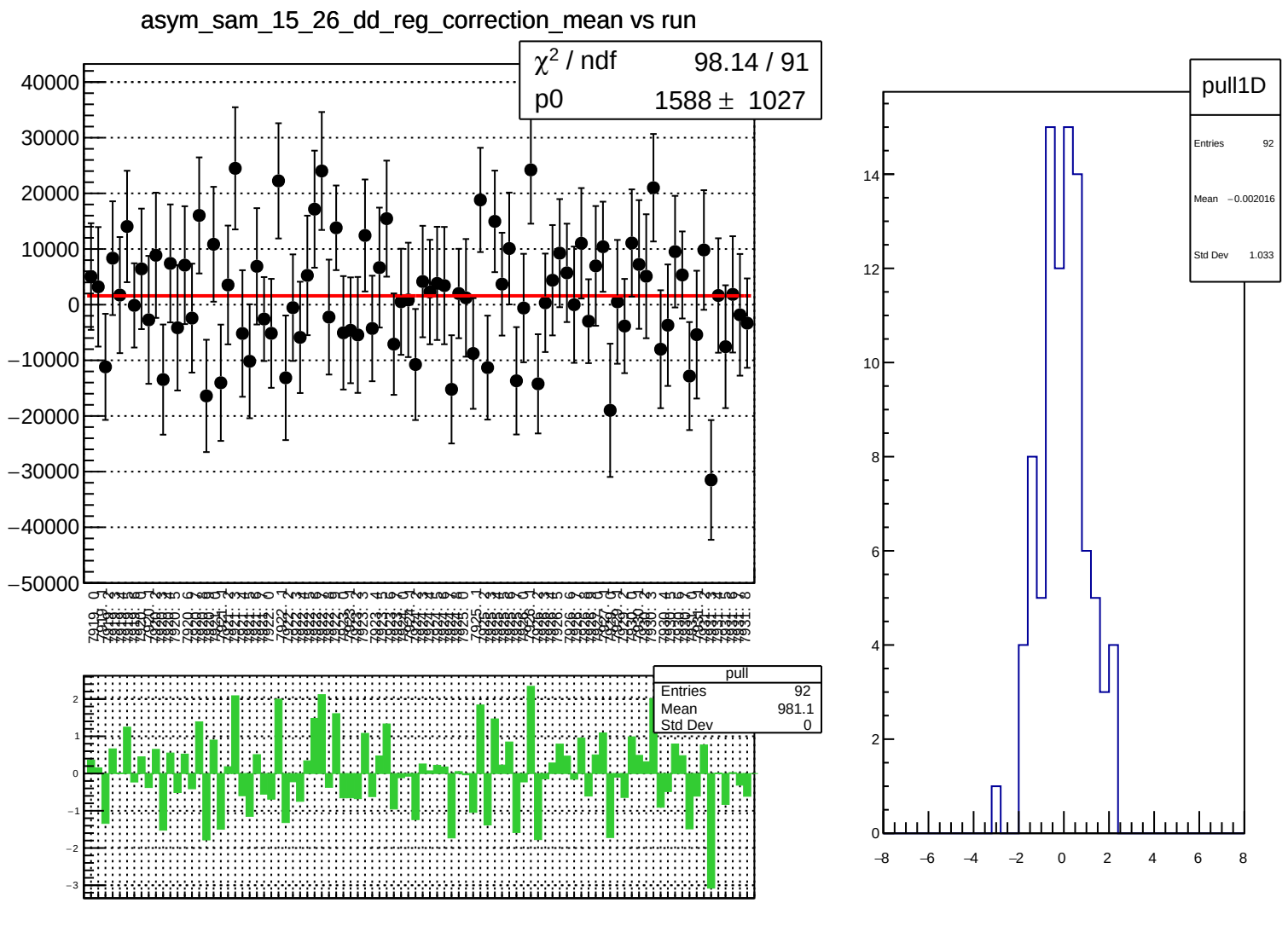

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4859 / 91
p0 44.26 ± 0.03319
50
48
46
44
42
40
38

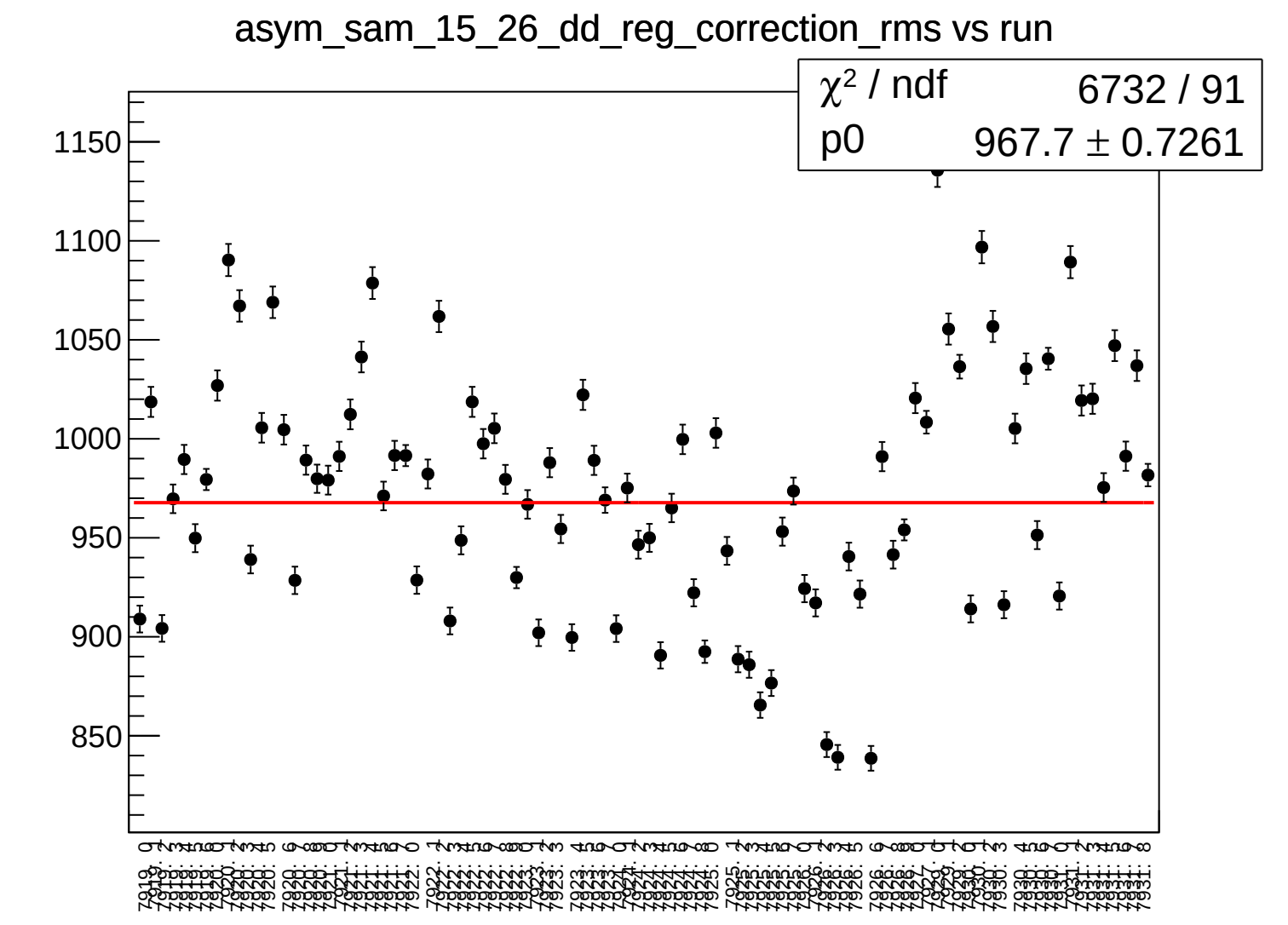

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 100.4 / 91
p0 2.895e−14 ± 3.942e−14
pull
Entries 92
Mean 38.28
Std Dev 17.14
pull1D
Entries 92
Mean −0.1112
Std Dev 1.039

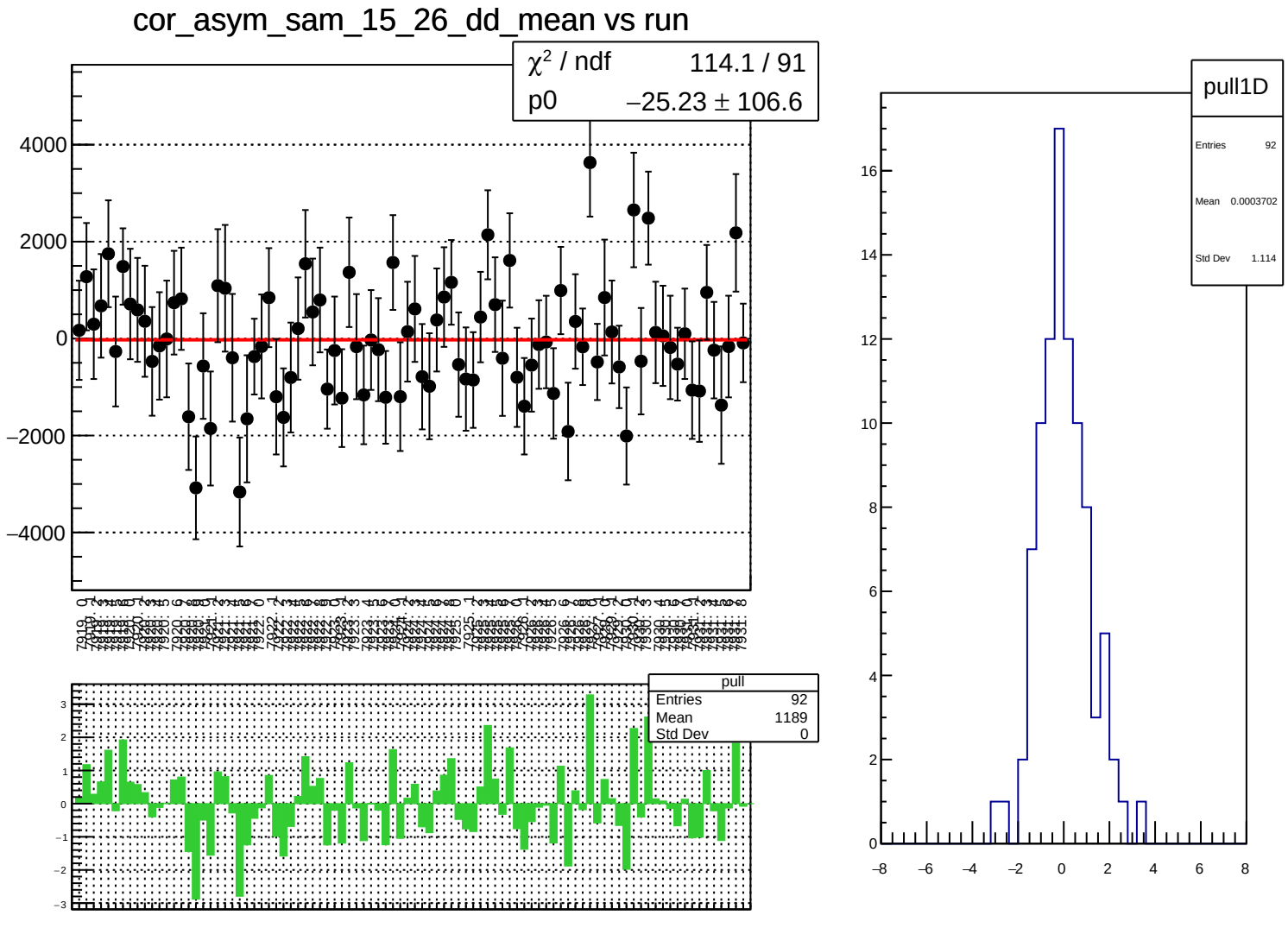

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.246e+05 / 91
p0 3.127e−11 ± 2.787e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

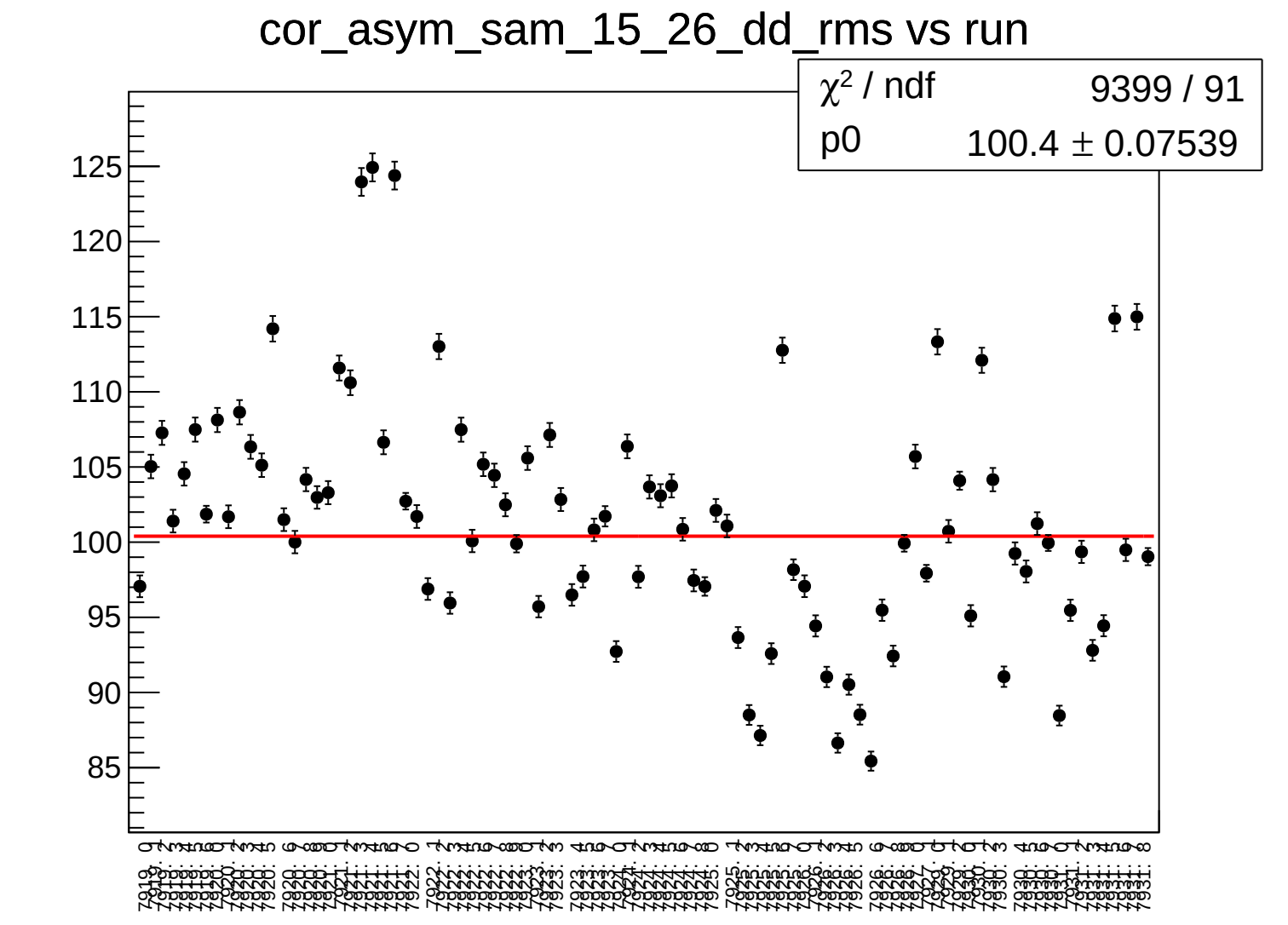

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 114.1 / 91
p0 −25.24 ± 106.6
4000
2000
0
−2000
−4000
pull
Entries 92
Mean 1188
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean 0.0003703
Std Dev 1.114
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

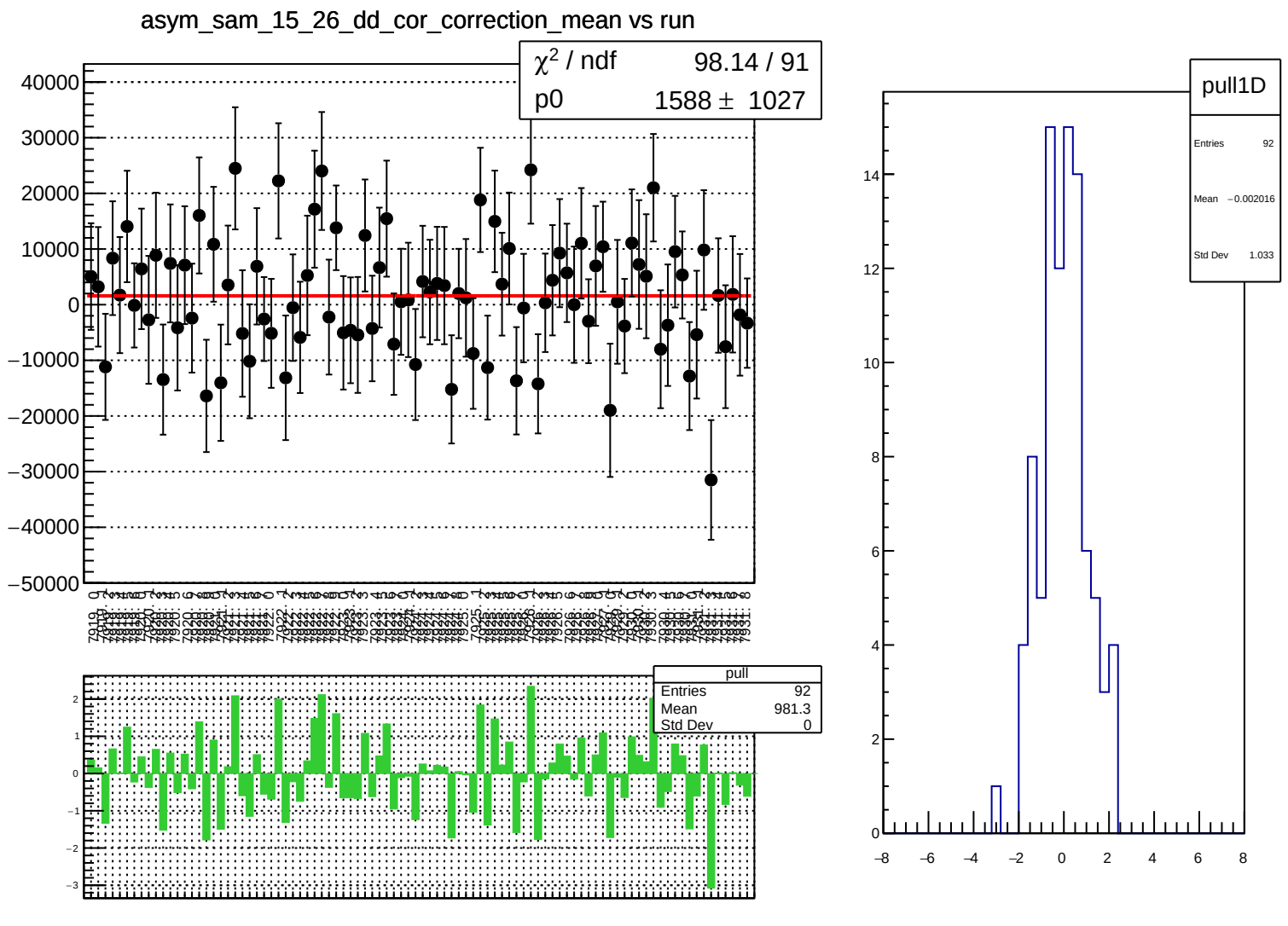

reg_asym_sam_15_26_dd_rms vs run
χ^2 / ndf 9399 / 91
p0 100.4 ± 0.07539
125
120
115
110
105
100
95
90
85

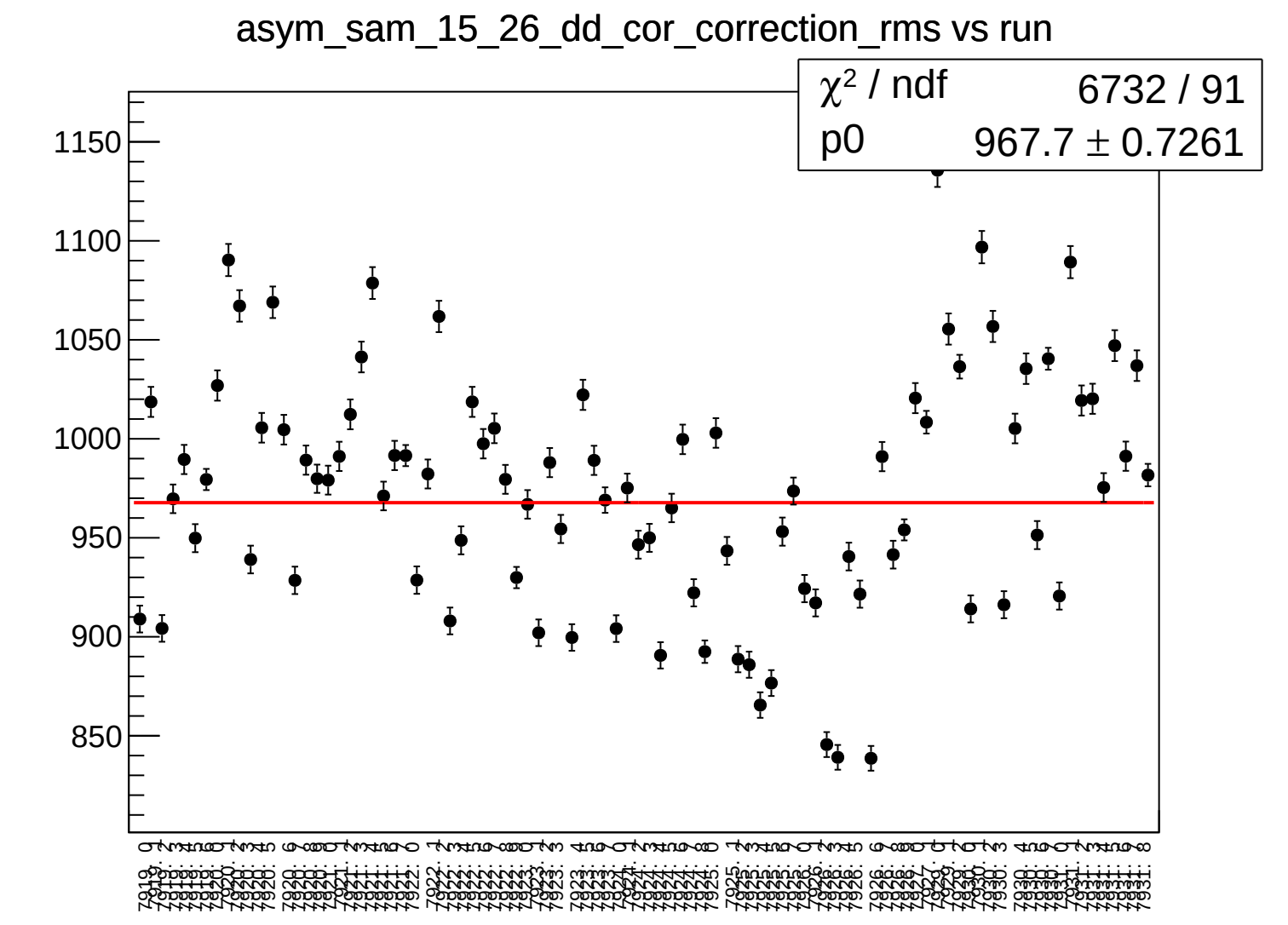

asym_sam_15_26_dd_reg_correction_mean vs run
χ² / ndf 98.14 / 91
p0 1588 ± 1027
pull
Entries 92
Mean 981.1
Std Dev 0
pull1D
Entries 92
Mean −0.002016
Std Dev 1.033

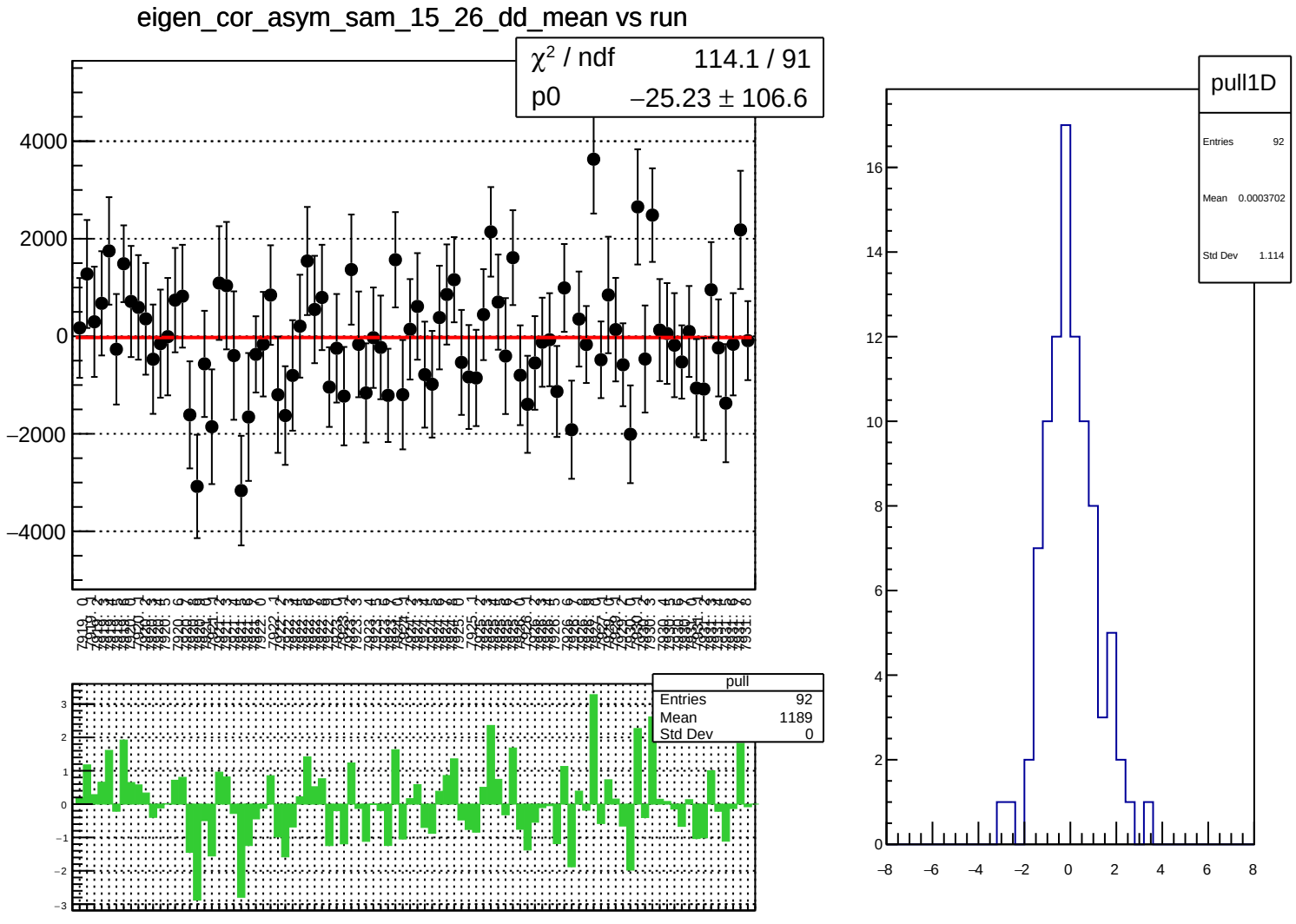

asym_sam_15_26_dd_reg_correction_rms vs run
χ² / ndf 6732 / 91
p0 967.7 ± 0.7261
1150
1100
1050
1000
950
900
850

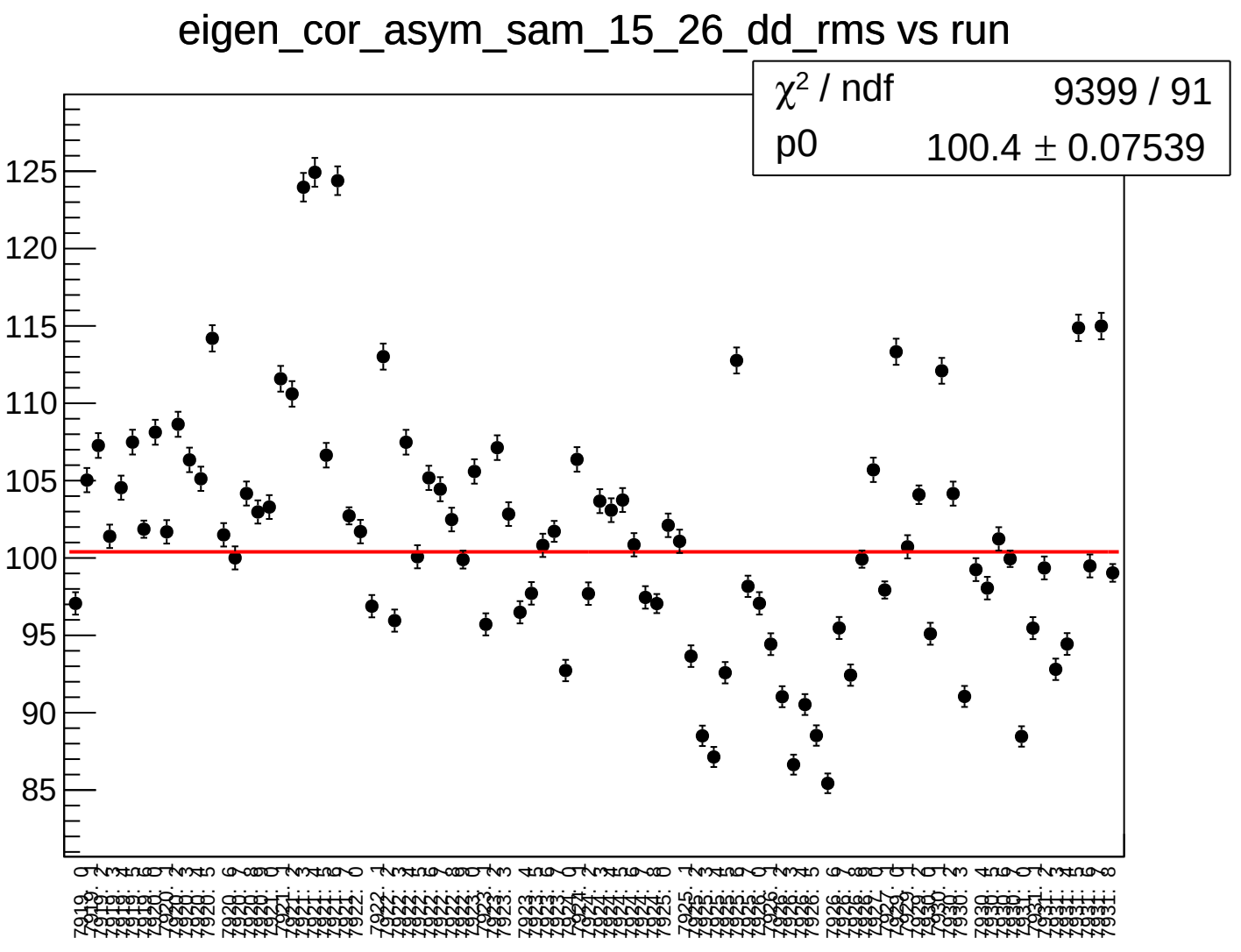

cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 114.1 / 91
p0 −25.23 ± 106.6
4000
2000
0
−2000
−4000
pull
Entries 92
Mean 1189
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean 0.0003702
Std Dev 1.114
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

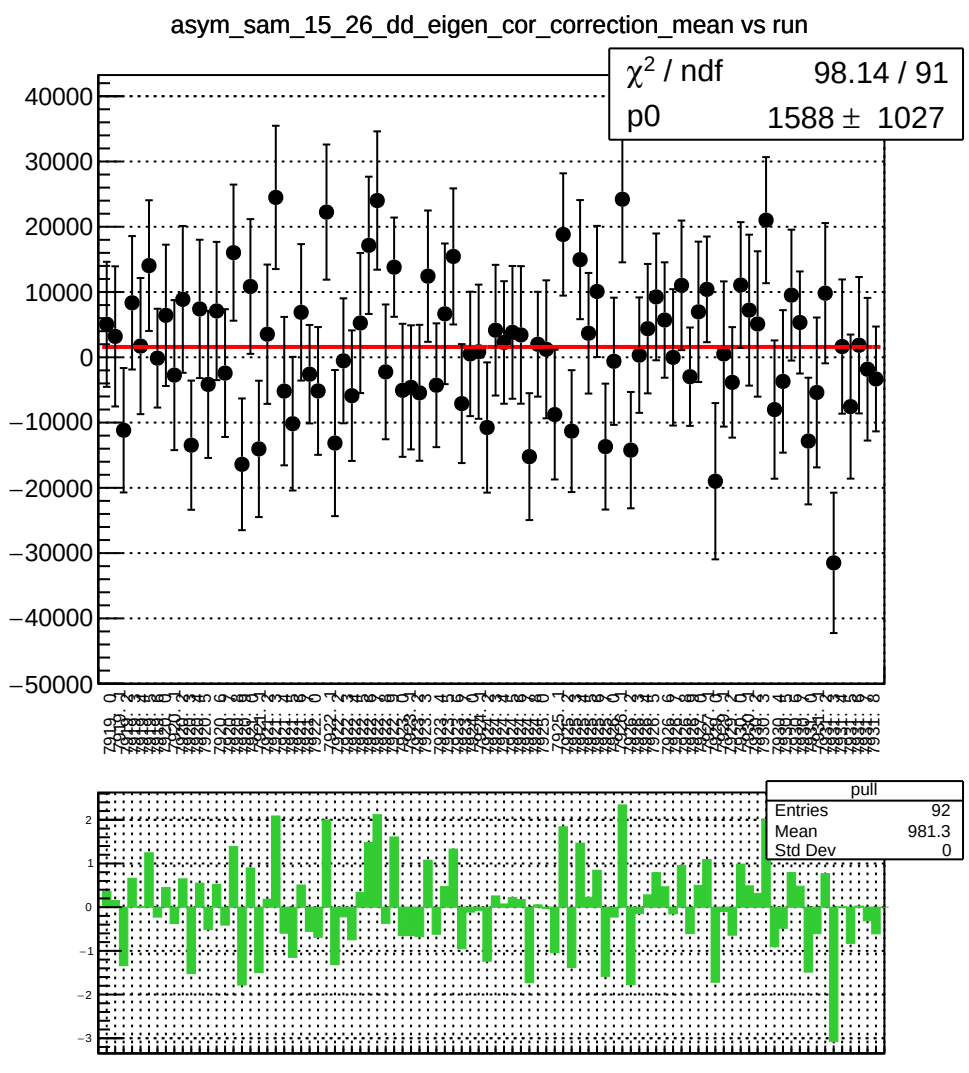

cor_asym_sam_15_26_dd_rms vs run
χ^2 / ndf 9399 / 91
p0 100.4 ± 0.07539
125
120
115
110
105
100
95
90
85

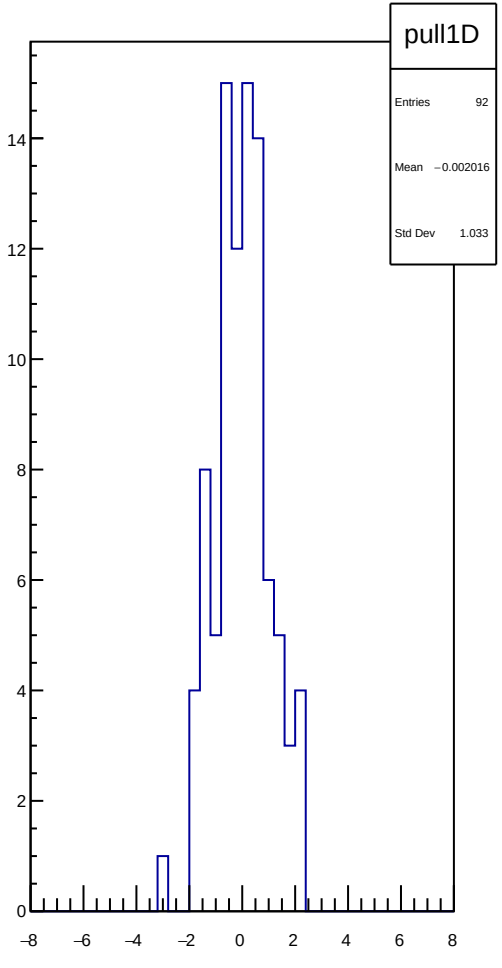

asym_sam_15_26_dd_cor_correction_mean vs run
χ² / ndf 98.14 / 91
p0 1588 ± 1027
pull
Entries 92
Mean 981.3
Std Dev 0
pull1D
Entries 92
Mean −0.002016
Std Dev 1.033

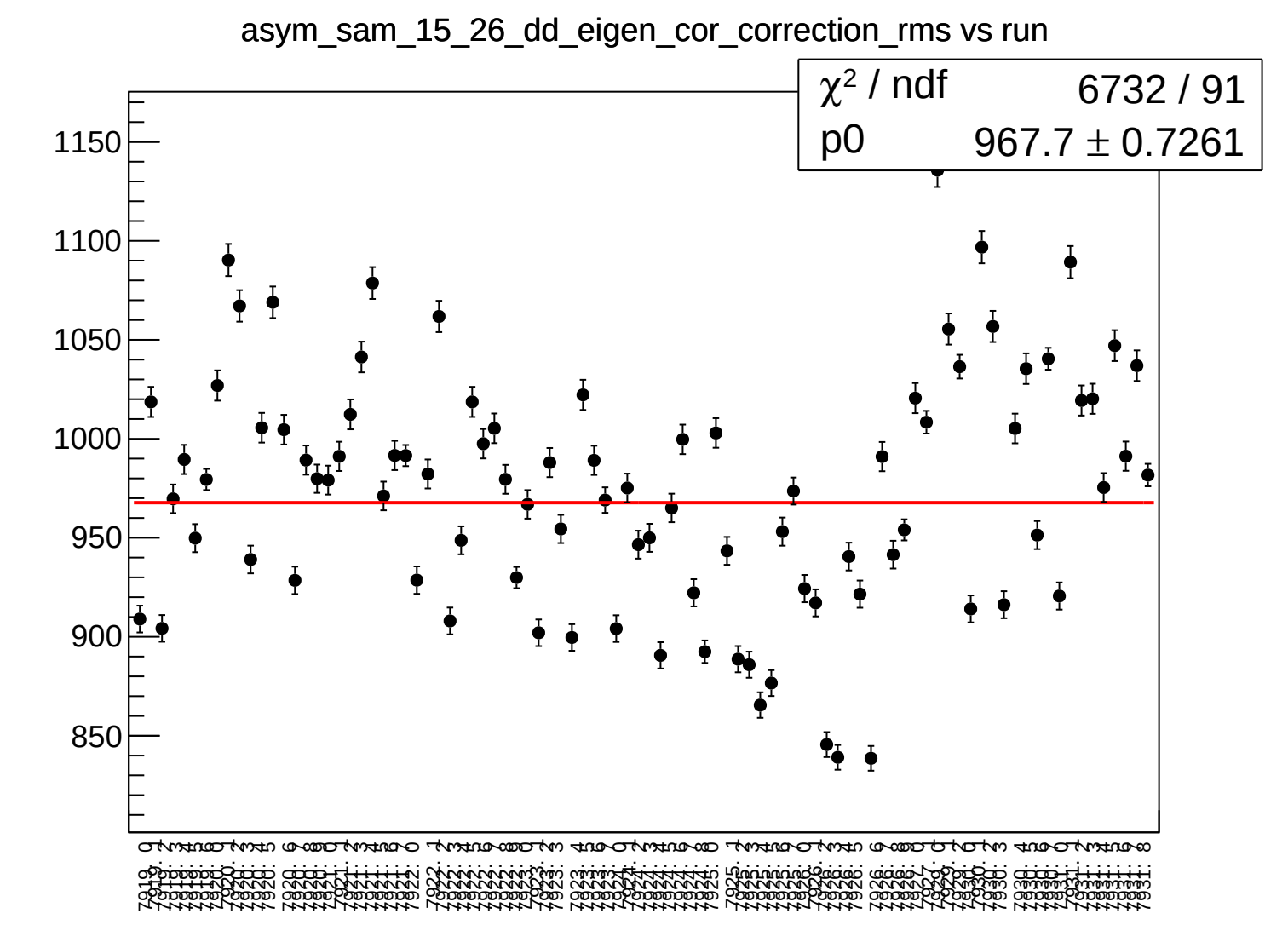

asym_sam_15_26_dd_cor_correction_rms vs run
χ² / ndf 6732 / 91
p0 967.7 ± 0.7261
1150
1100
1050
1000
950
900
850

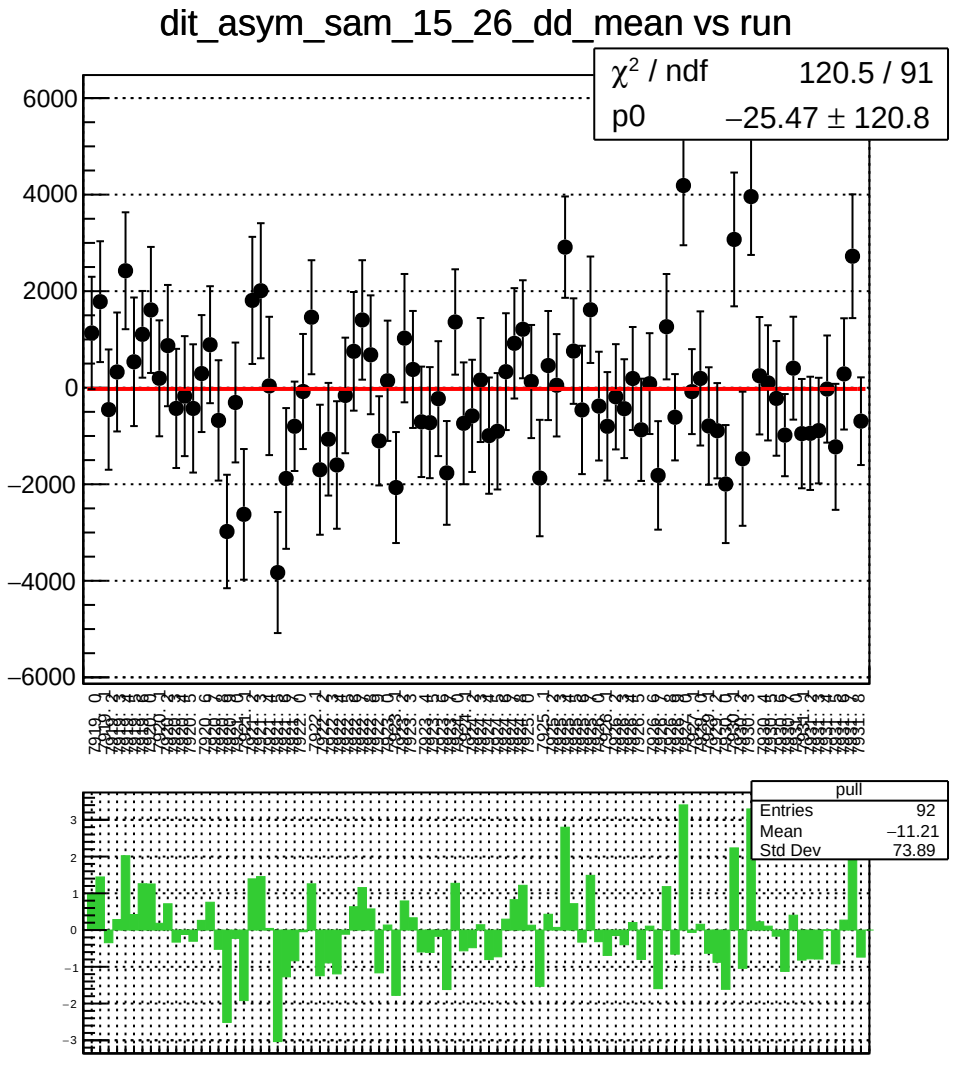

eigen_cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 114.1 / 91
p0 −25.23 ± 106.6
4000
2000
0
−2000
−4000
pull
Entries 92
Mean 1189
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean 0.0003702
Std Dev 1.114
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

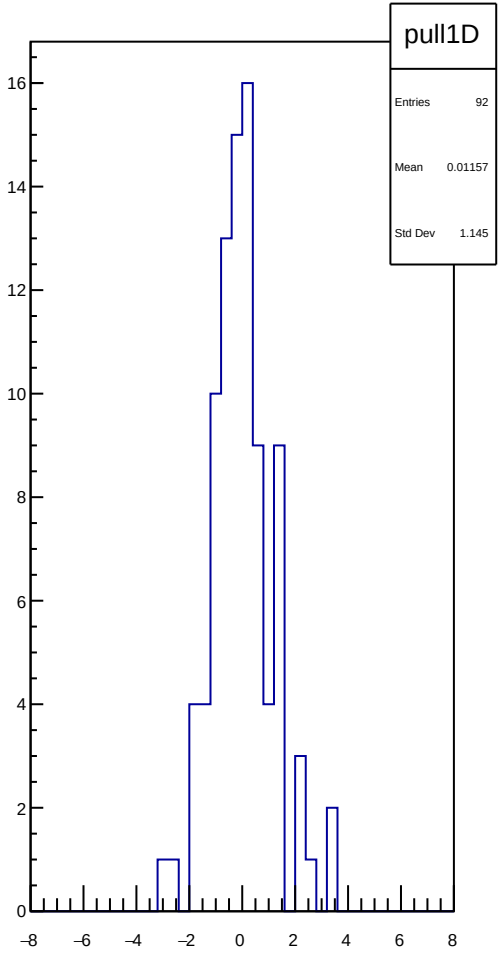

eigen_cor_asym_sam_15_26_dd_rms vs run
χ^2 / ndf 9399 / 91
p0 100.4 ± 0.07539
125
120
115
110
105
100
95
90
85

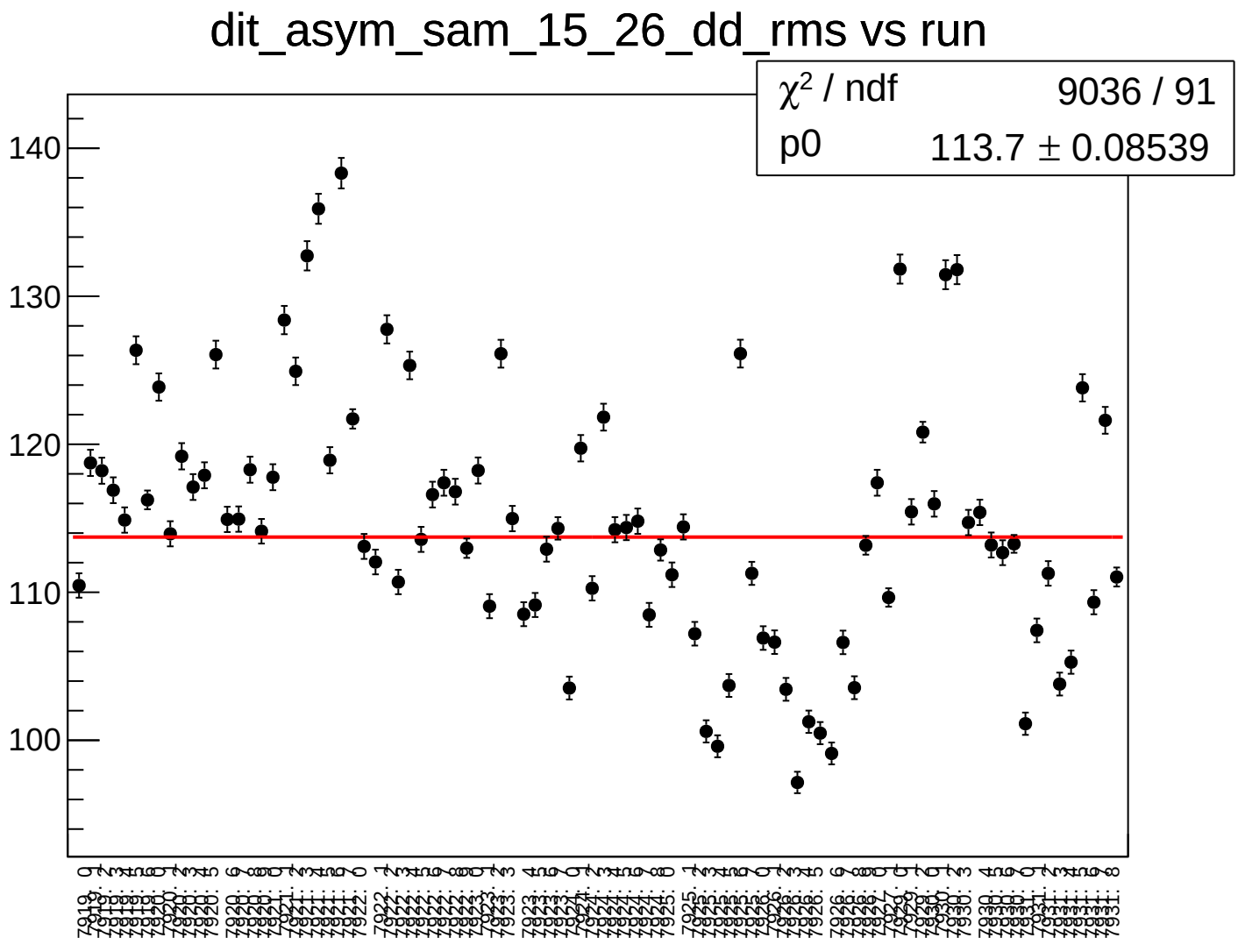

asym_sam_15_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 98.14 / 91
p0 1588 ± 1027
pull
Entries 92
Mean 981.3
Std Dev 0

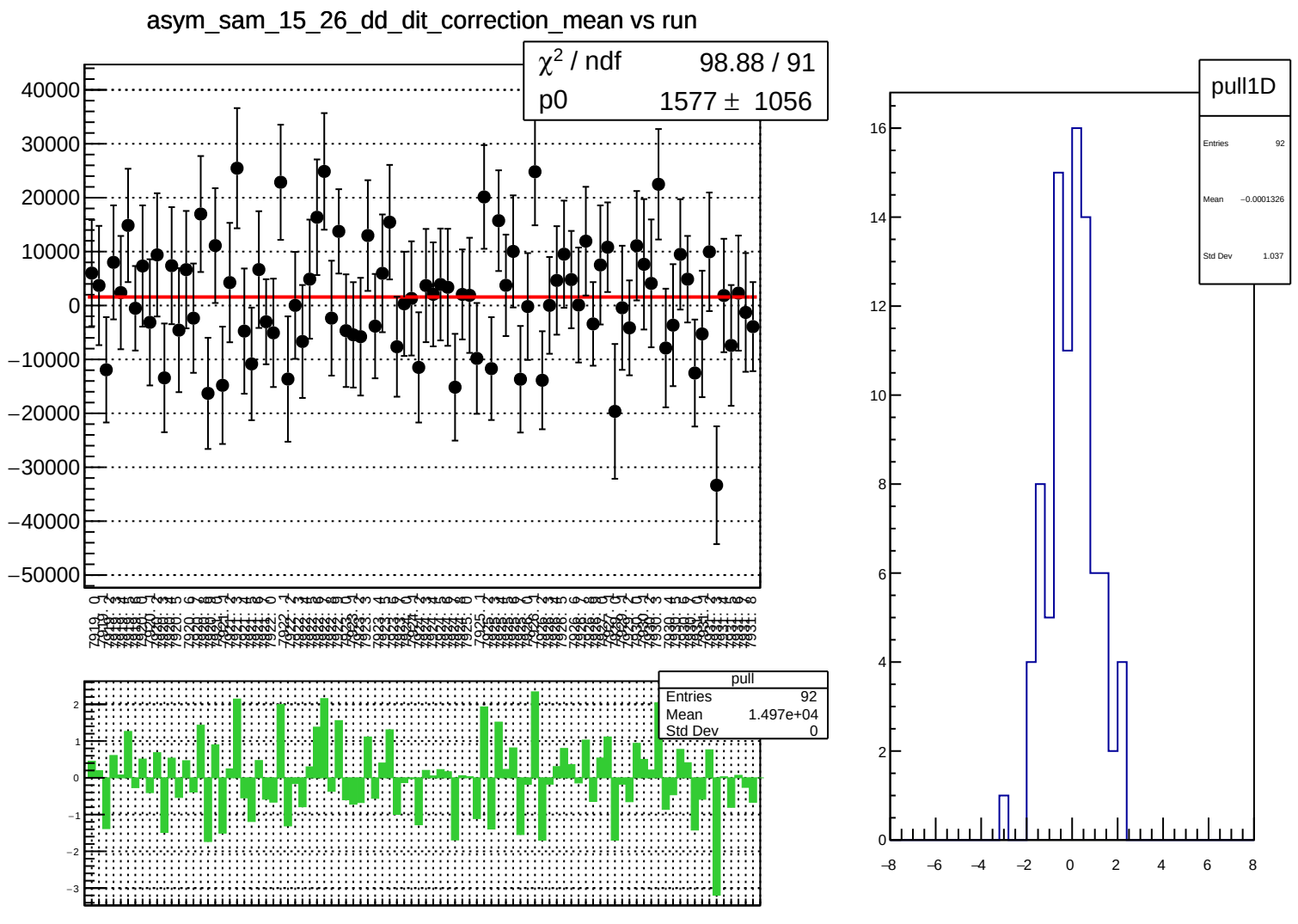

pull1D
Entries 92
Mean −0.002016
Std Dev 1.033

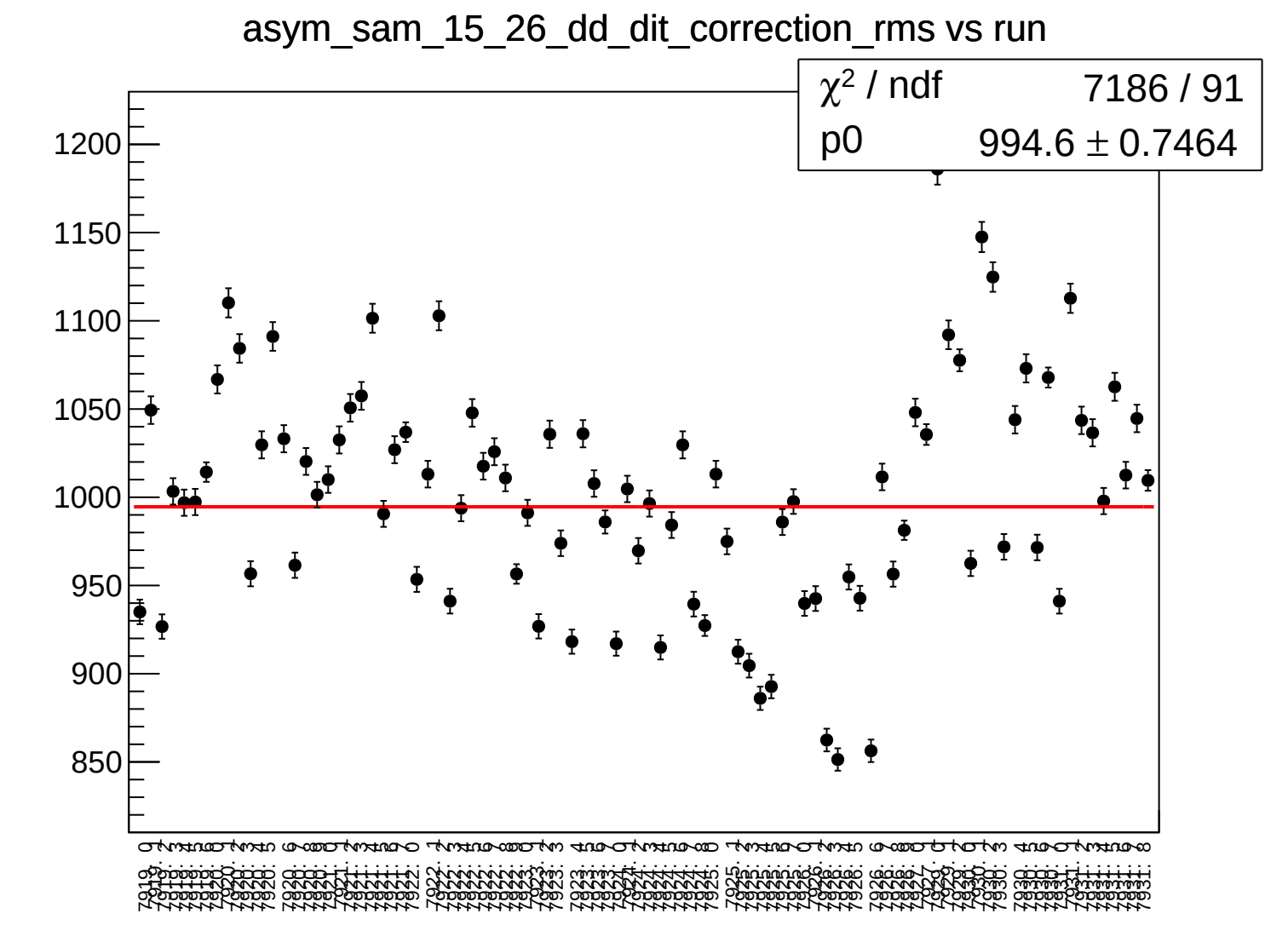

asym_sam_15_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 6732 / 91
p0 967.7 ± 0.7261
1150
1100
1050
1000
950
900
850

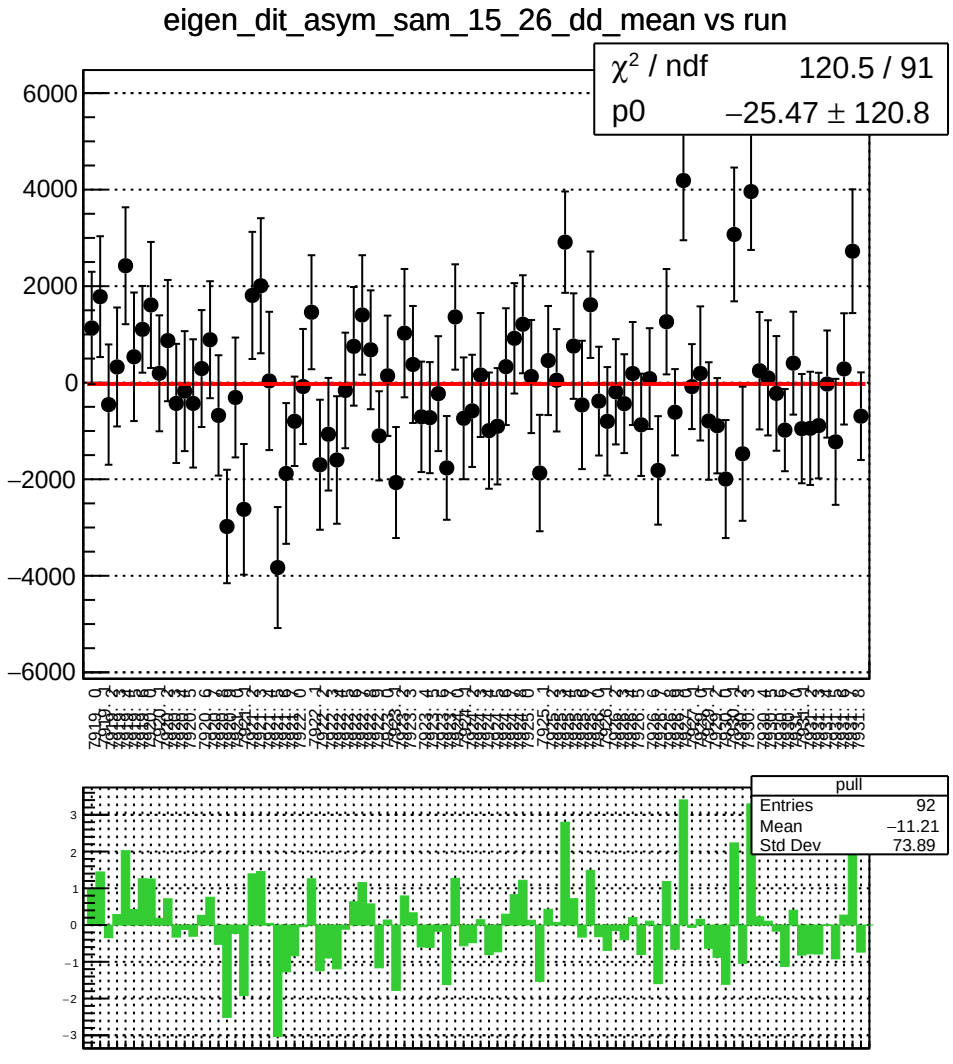

dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 120.5 / 91
p0 −25.47 ± 120.8
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 92
Mean −11.21
Std Dev 73.89
3
2
1
0
−1
−2
−3

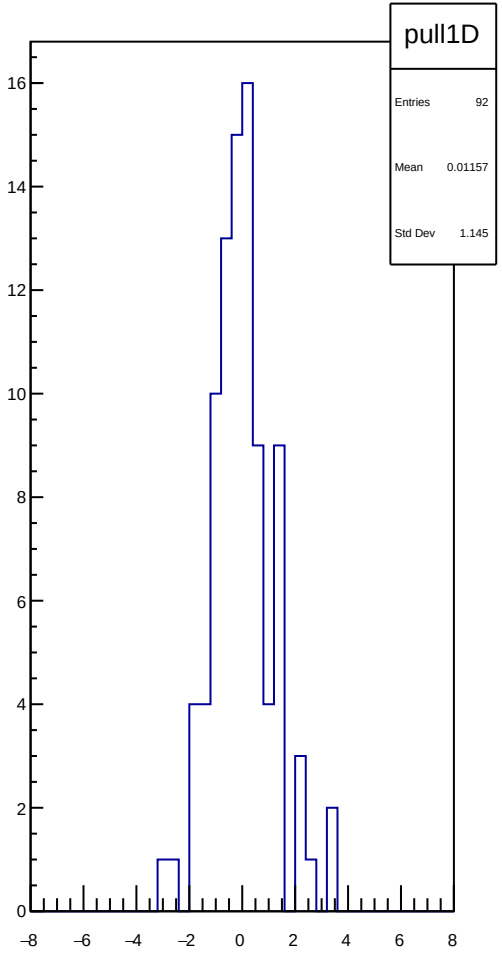

pull1D
Entries 92
Mean 0.01157
Std Dev 1.145
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

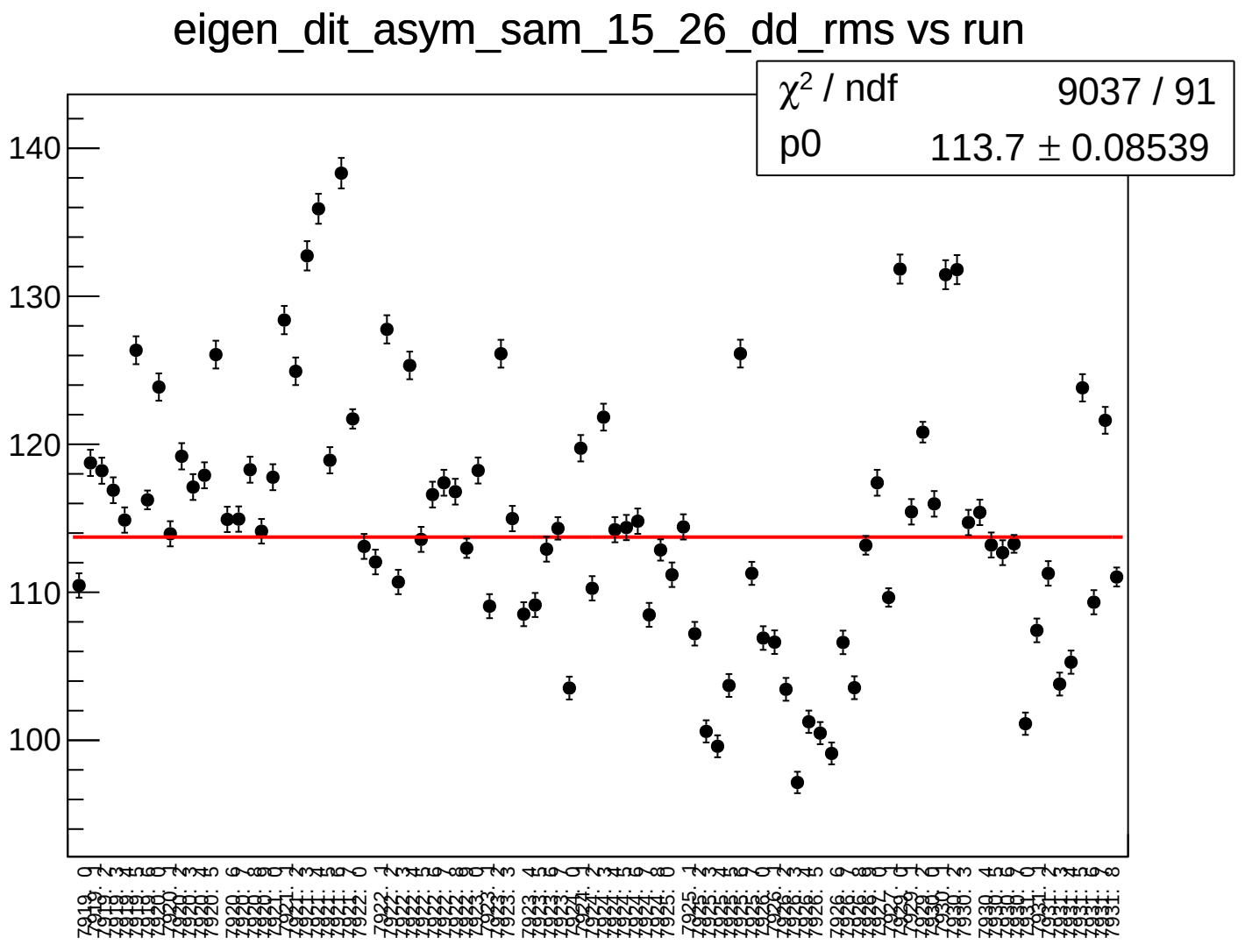

dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 9036 / 91
p0 113.7 ± 0.08539
140
130
120
110
100

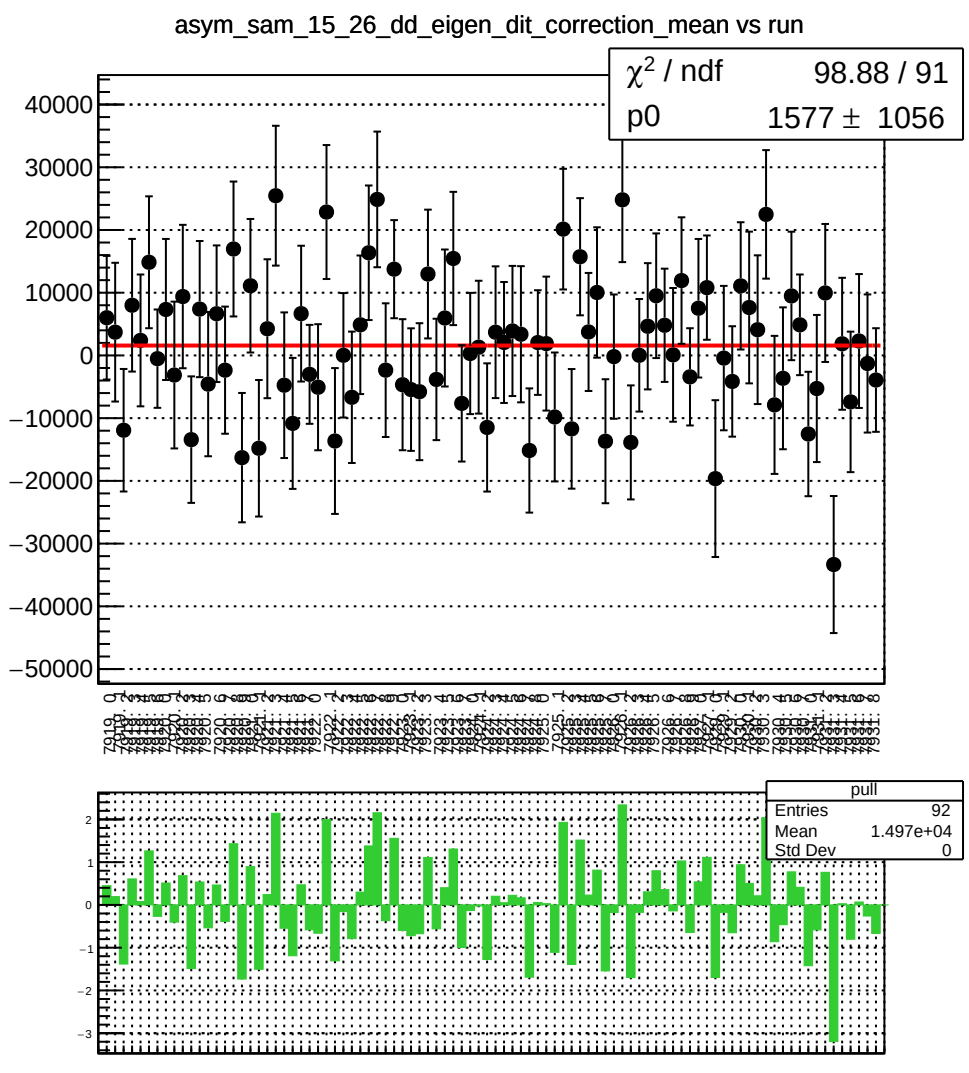

asym_sam_15_26_dd_dit_correction_mean vs run
χ² / ndf 98.88 / 91
p0 1577 ± 1056
pull
Entries 92
Mean 1.497e+04
Std Dev 0
pull1D
Entries 92
Mean −0.0001326
Std Dev 1.037

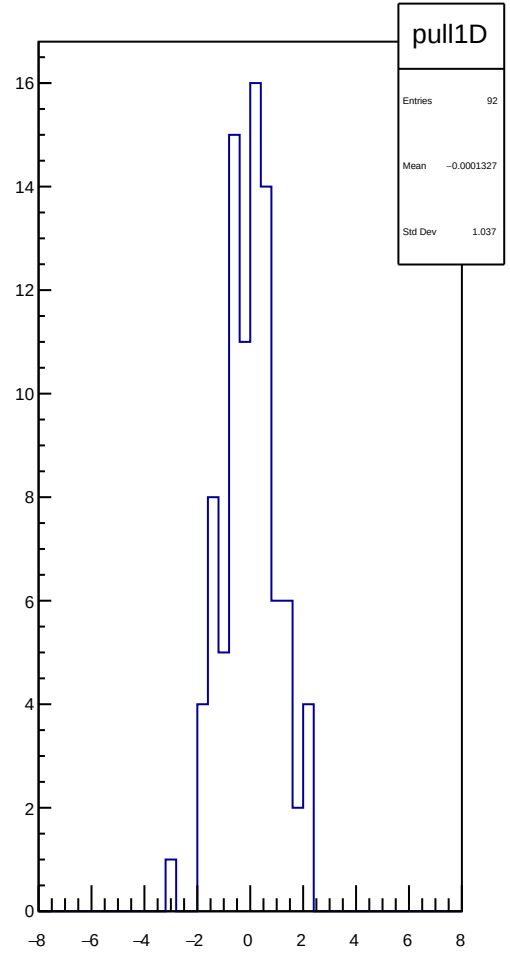

asym_sam_15_26_dd_dit_correction_rms vs run
χ² / ndf 7186 / 91
p0 994.6 ± 0.7464
1200
1150
1100
1050
1000
950
900
850

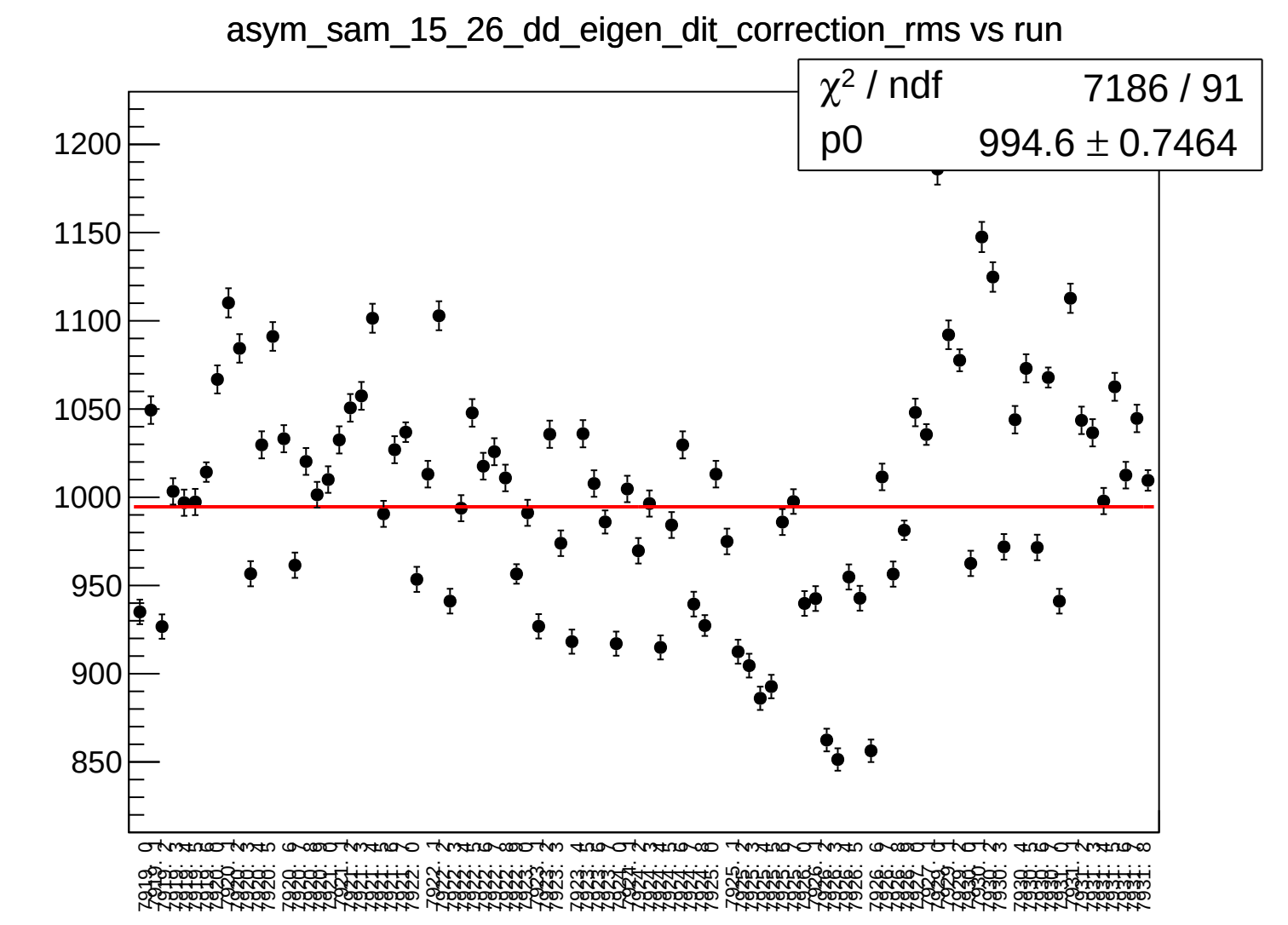

eigen_dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 120.5 / 91
p0 −25.47 ± 120.8
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 92
Mean −11.21
Std Dev 73.89
3
2
1
0
−1
−2
−3

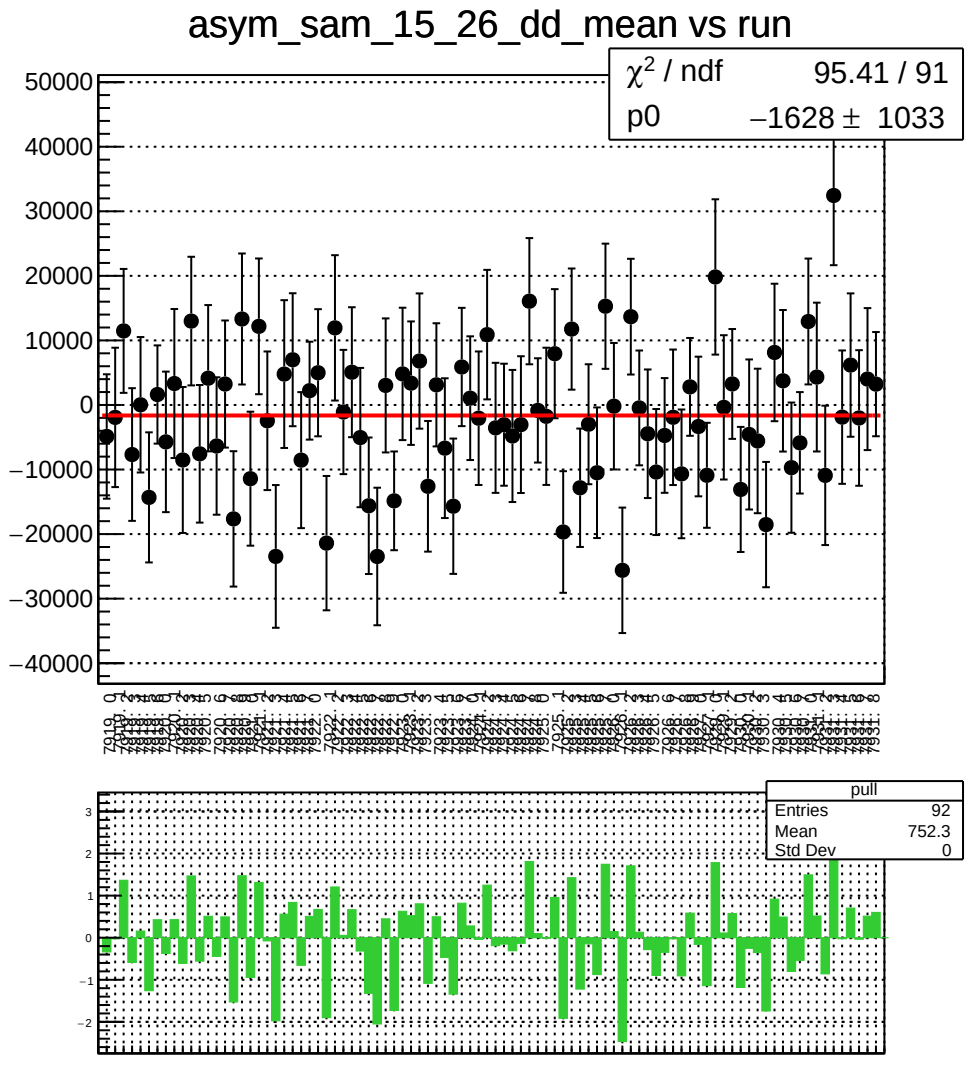

pull1D
Entries 92
Mean 0.01157
Std Dev 1.145
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

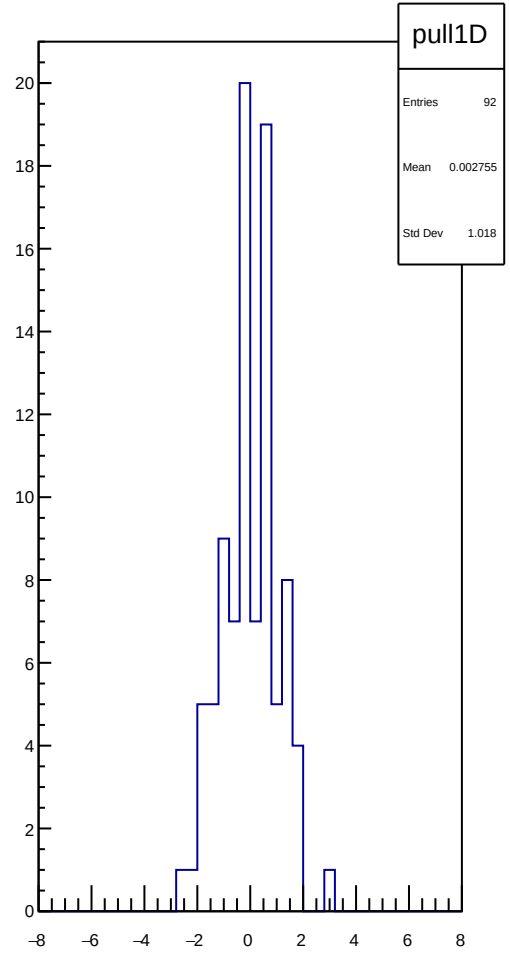

eigen_dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 9037 / 91
p0 113.7 ± 0.08539
140
130
120
110
100

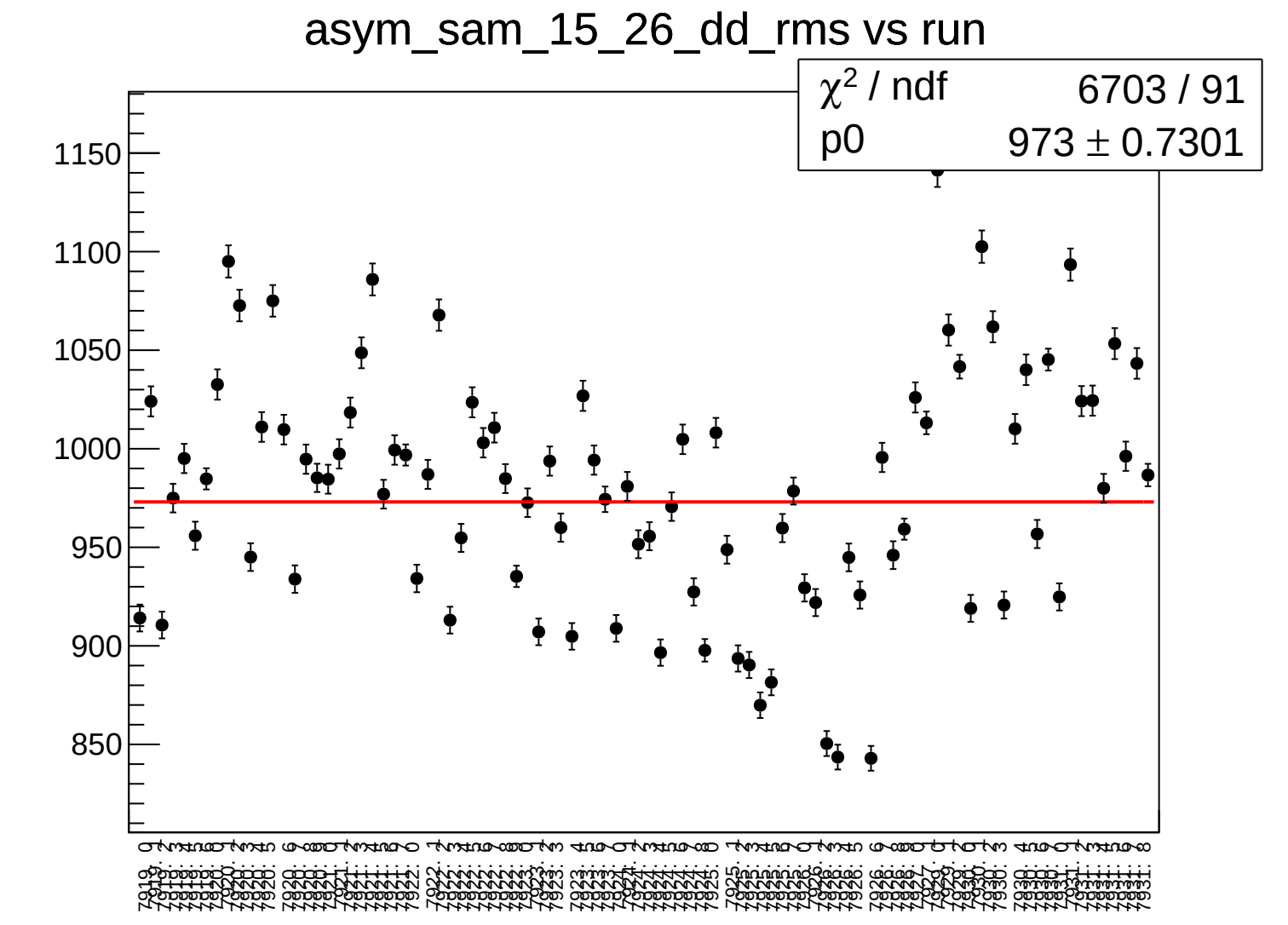

asym_sam_15_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 98.88 / 91
p0 1577 ± 1056
pull
Entries 92
Mean 1.497e+04
Std Dev 0

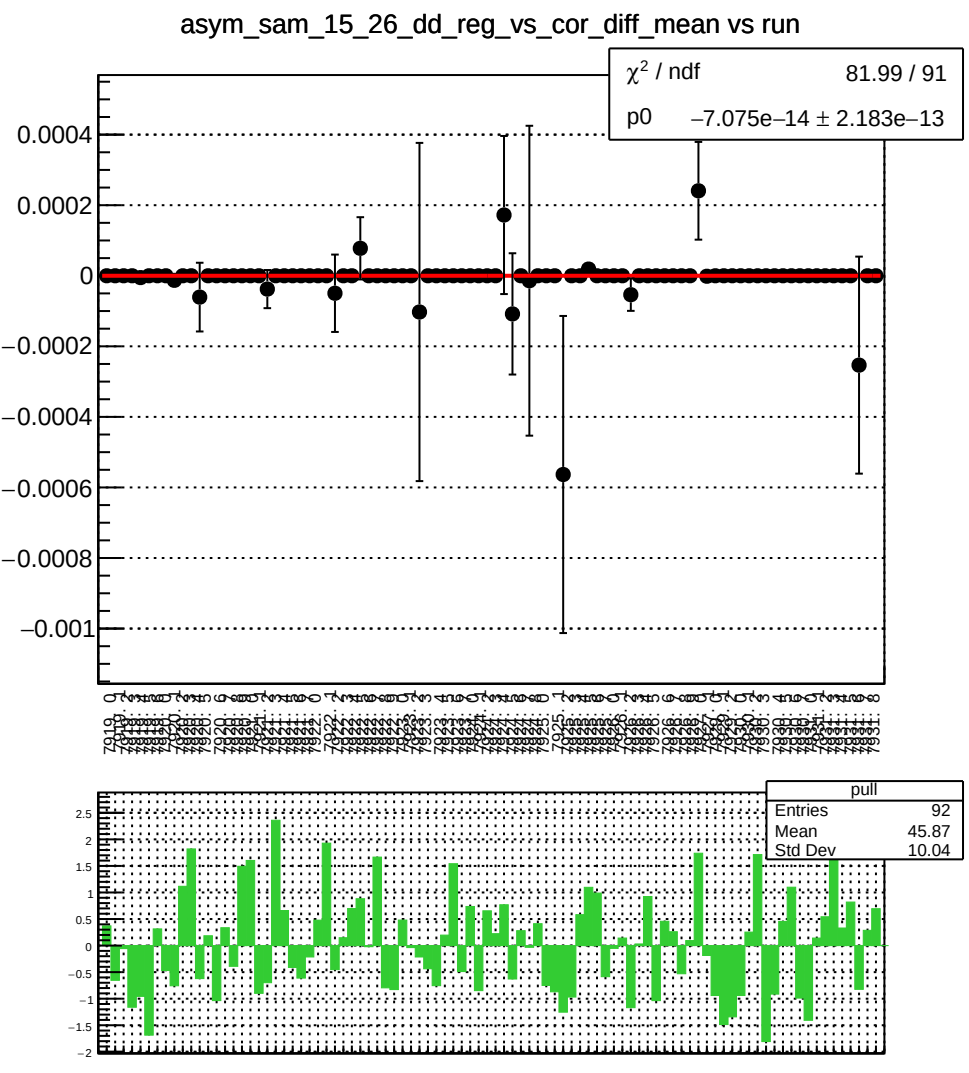

pull1D
Entries 92
Mean −0.0001327
Std Dev 1.037

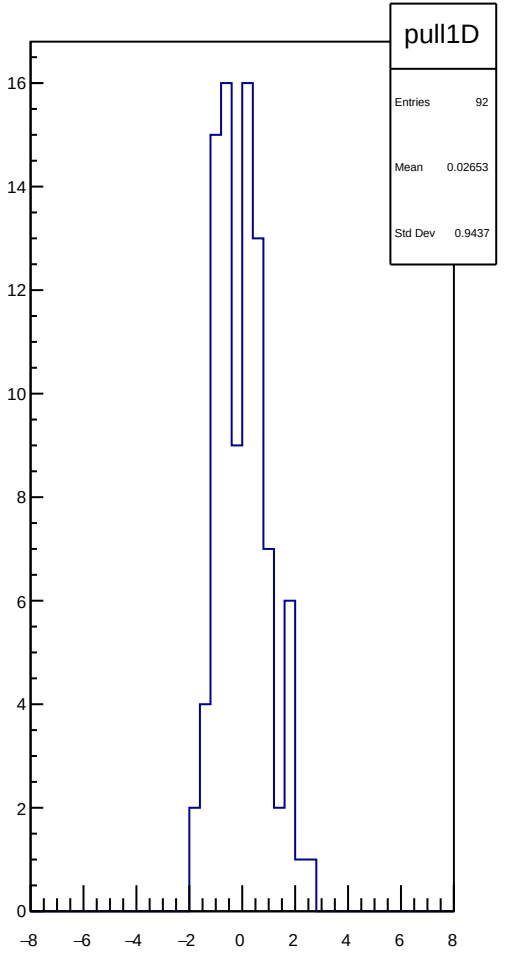

asym_sam_15_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 7186 / 91
p0 994.6 ± 0.7464
1200
1150
1100
1050
1000
950
900
850

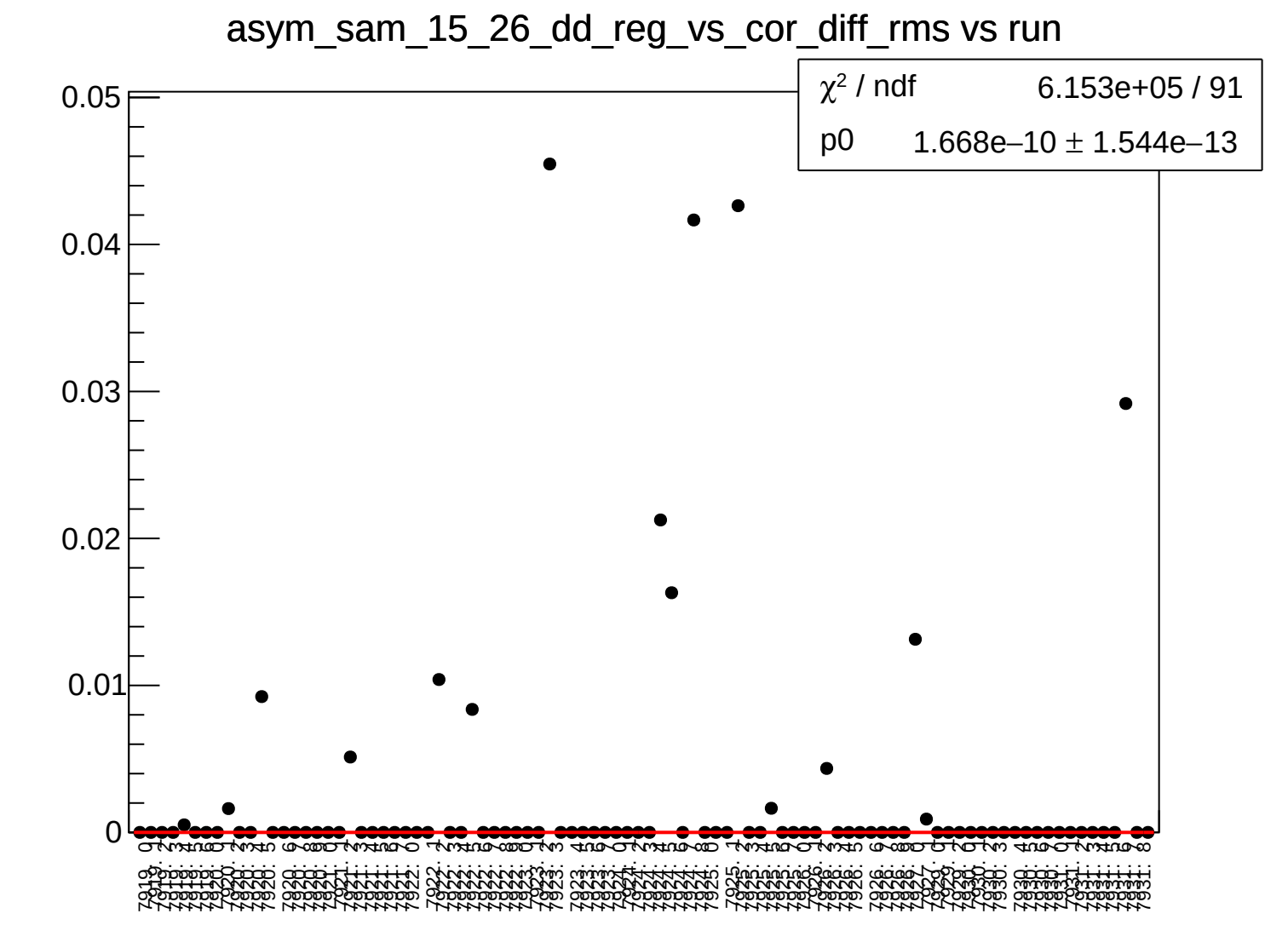

asym_sam_15_26_dd_mean vs run
χ² / ndf 95.41 / 91
p0 −1628 ± 1033
pull
Entries 92
Mean 752.3
Std Dev 0

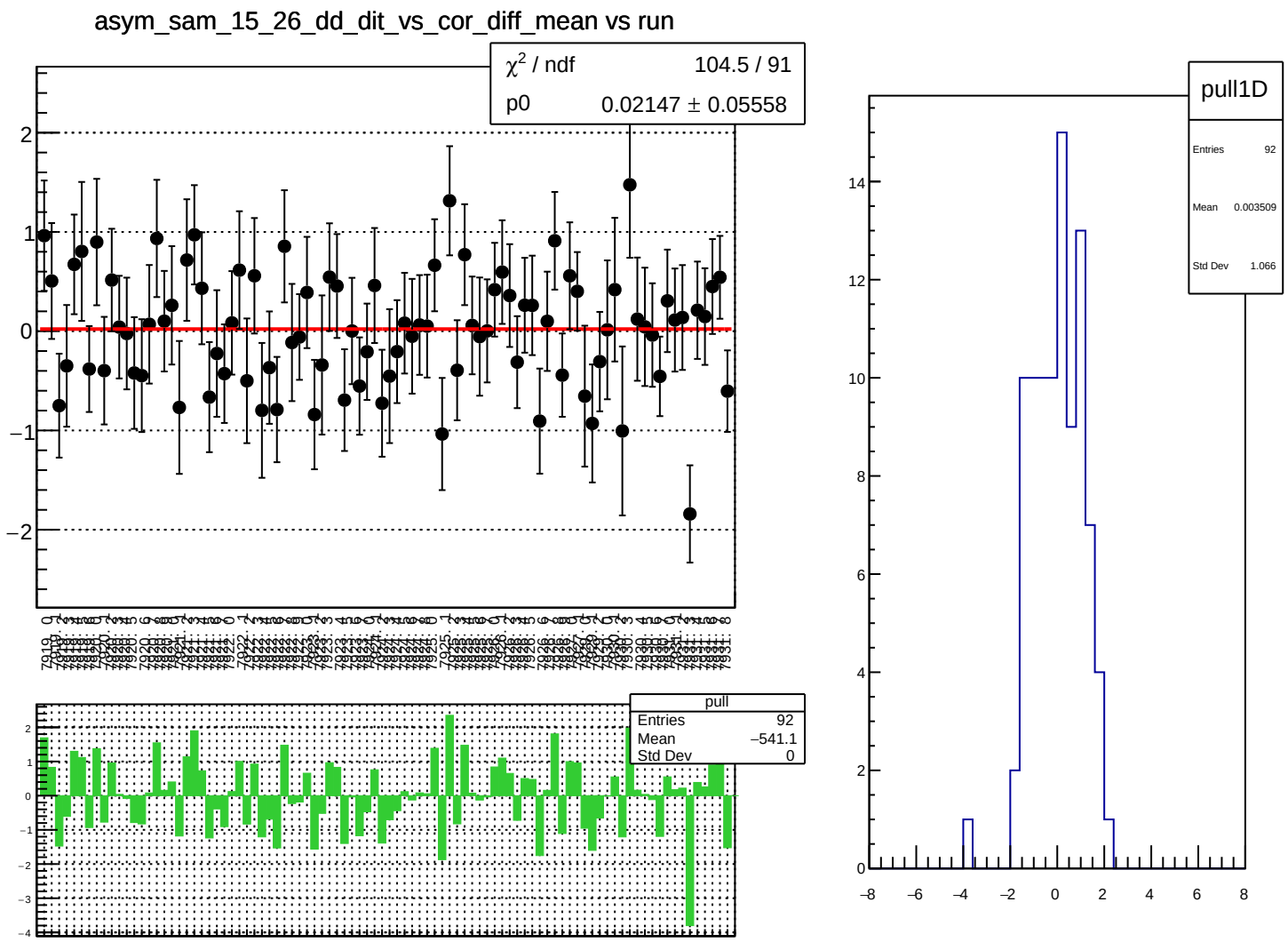

pull1D
Entries 92
Mean 0.002755
Std Dev 1.018

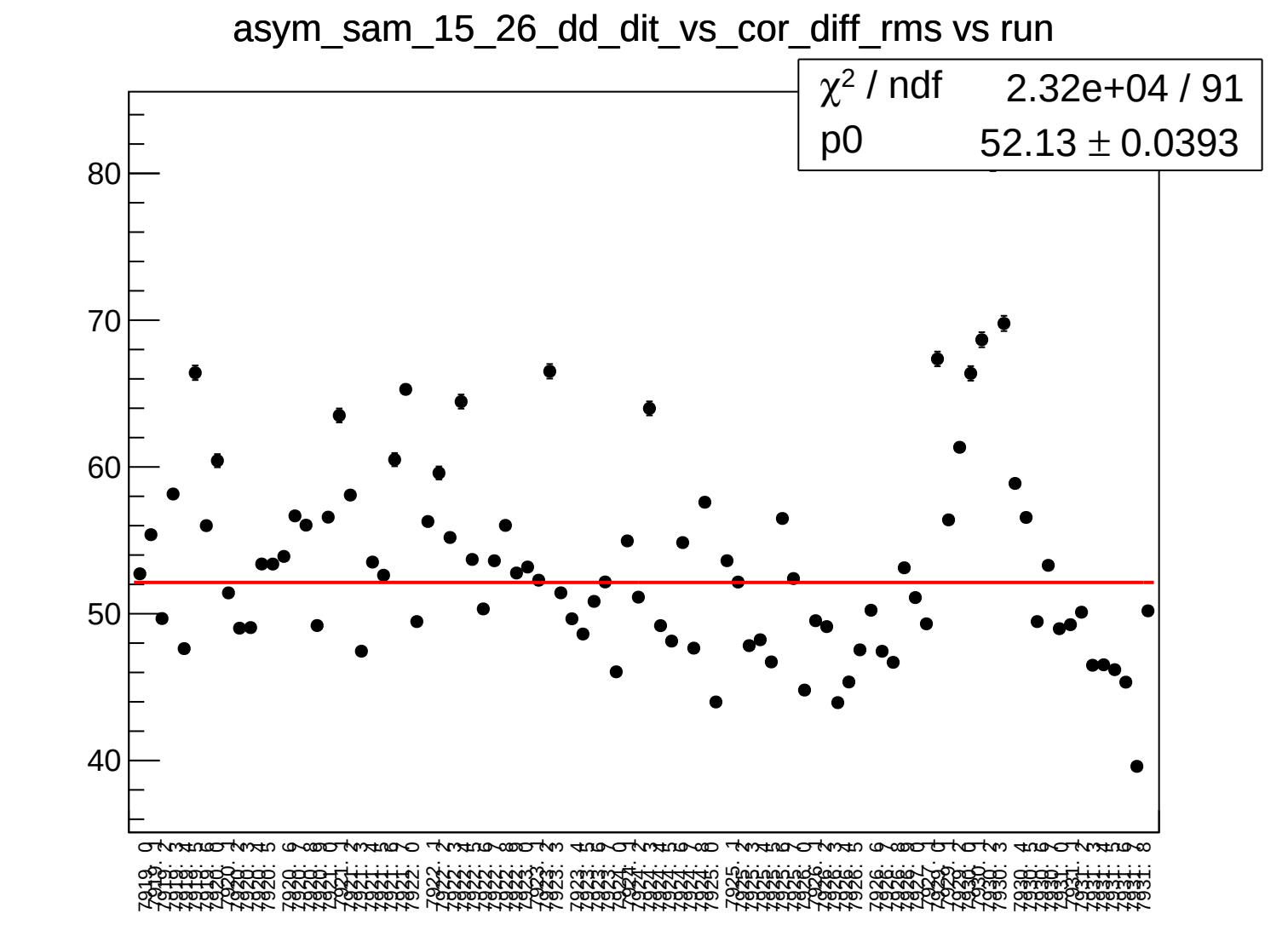

asym_sam_15_26_dd_rms vs run
χ² / ndf 6703 / 91
p0 973 ± 0.7301
1150
1100
1050
1000
950
900
850

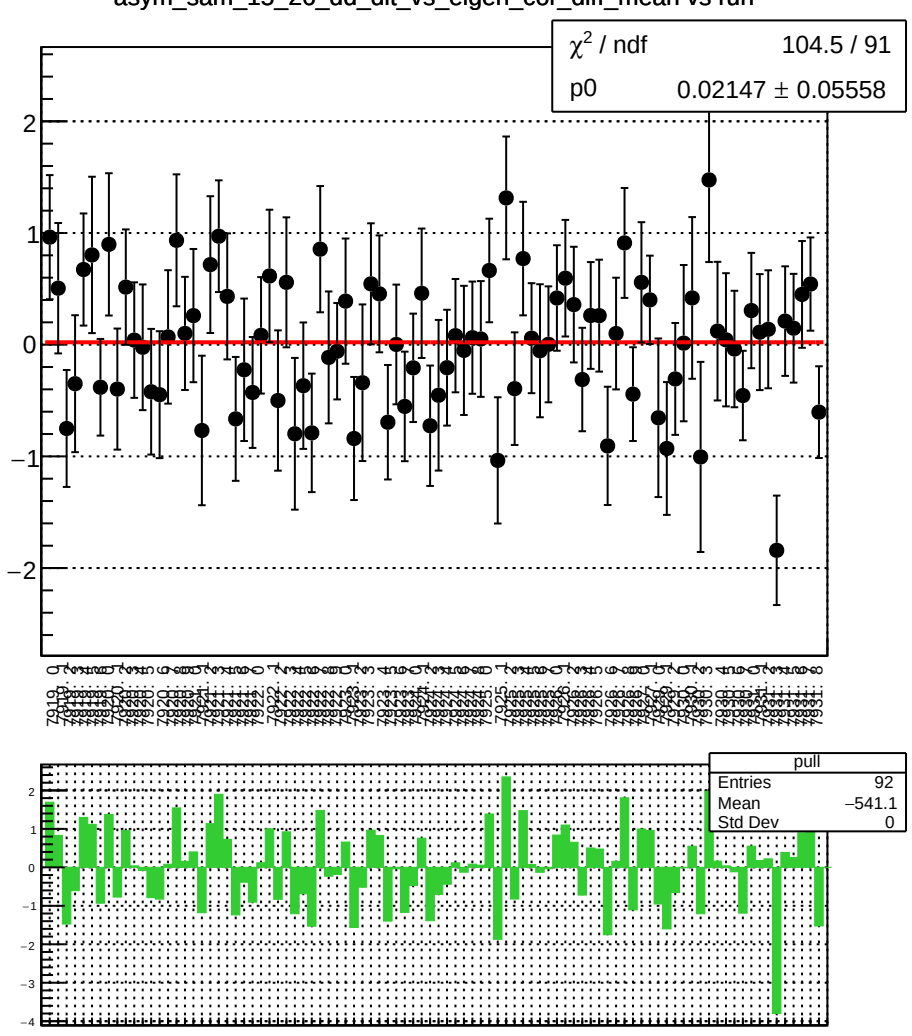

asym_sam_15_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 81.99 / 91
p0 −7.075e−14 ± 2.183e−13
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 92
Mean 45.87
Std Dev 10.04
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

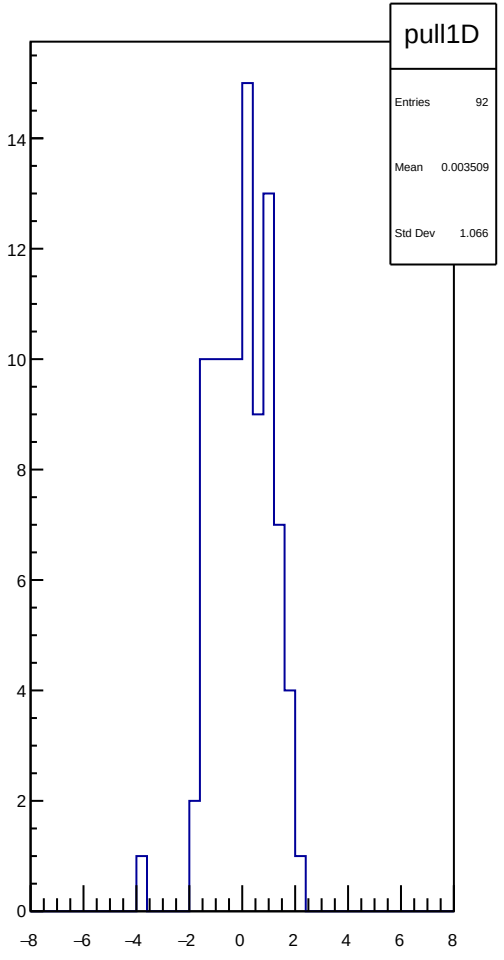

pull1D
Entries 92
Mean 0.02653
Std Dev 0.9437
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

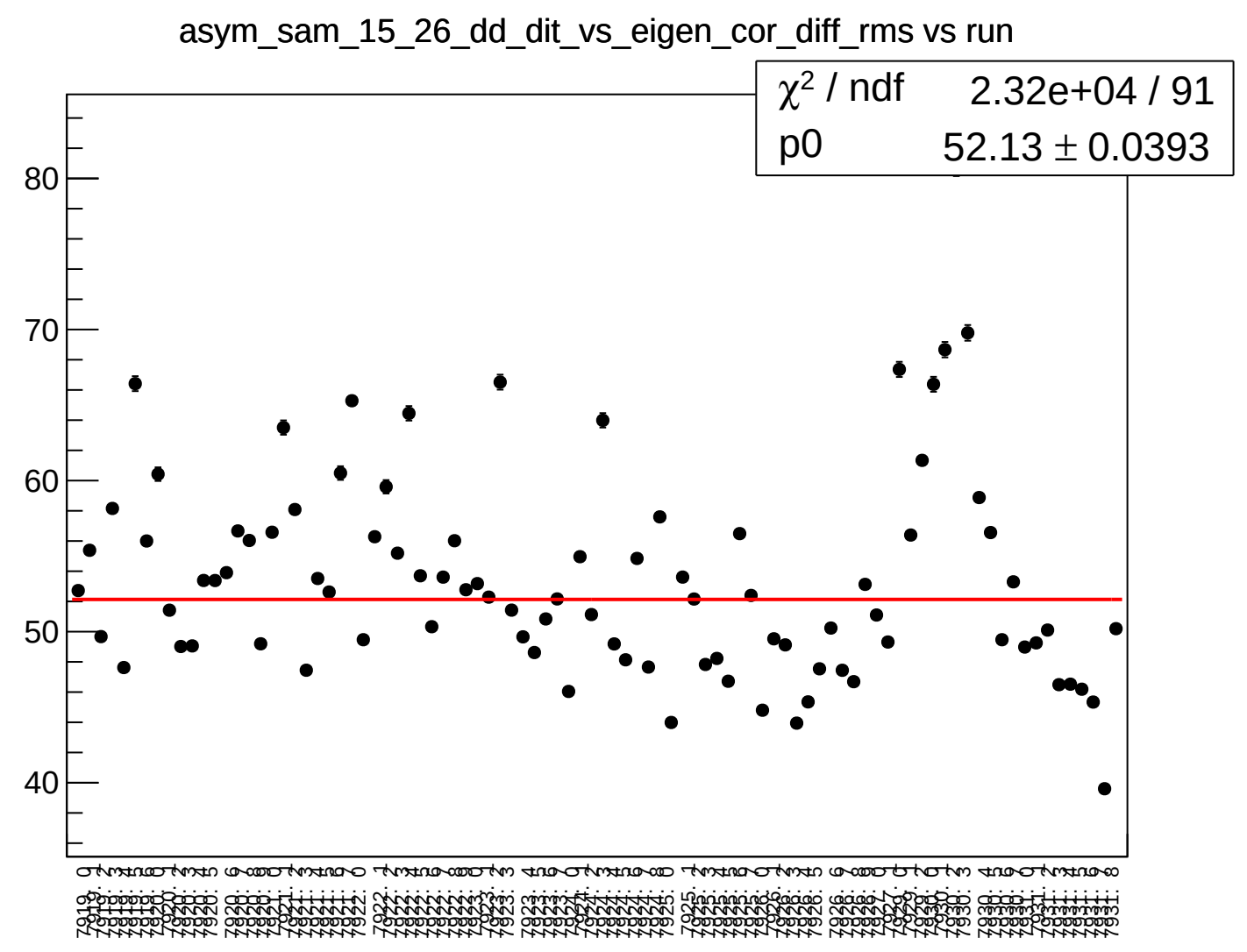

asym_sam_15_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 6.153e+05 / 91
p0 1.668e−10 ± 1.544e−13
0.05
0.04
0.03
0.02
0.01
0

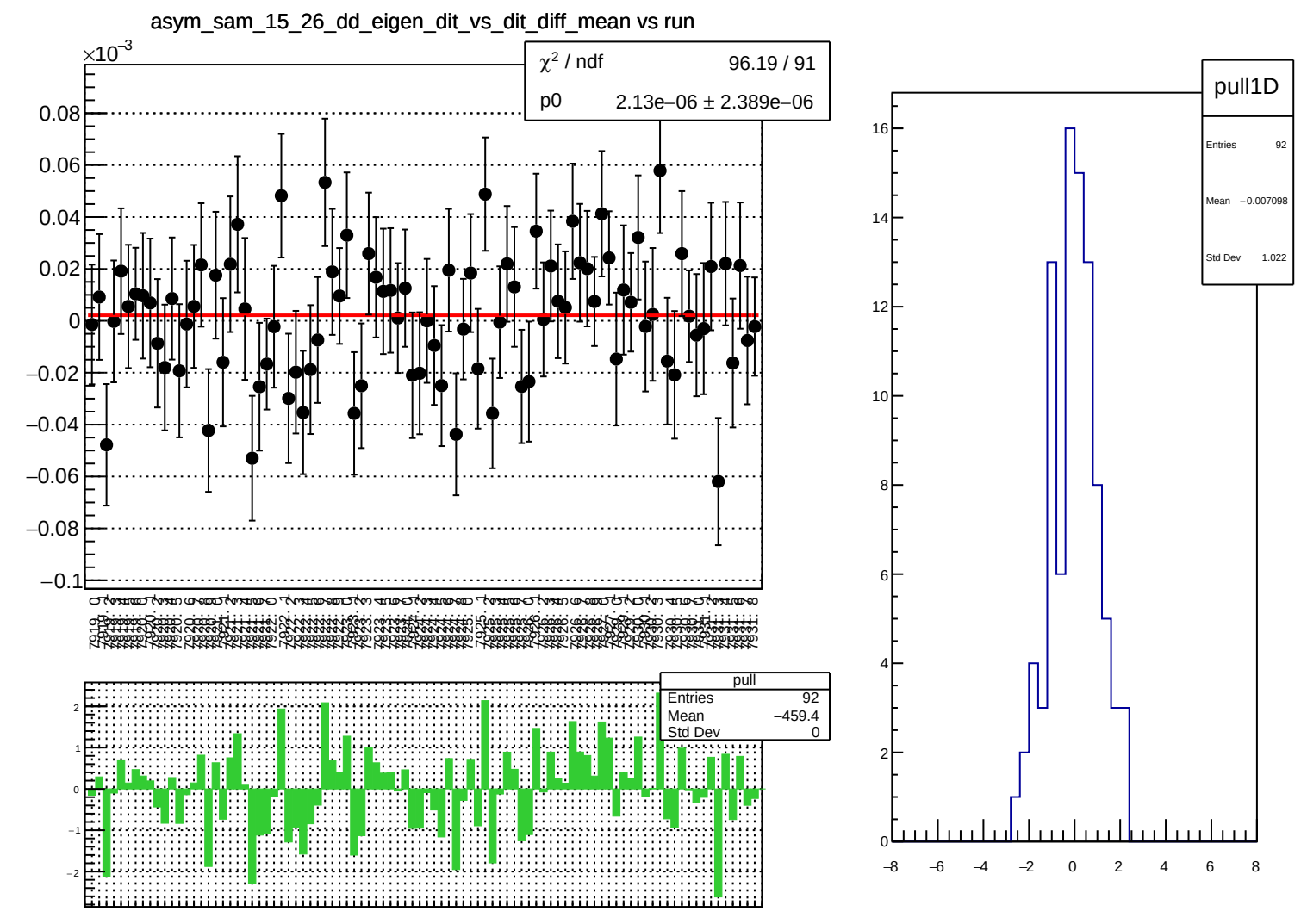

asym_sam_15_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 104.5 / 91
p0 0.02147 ± 0.05558
pull
Entries 92
Mean −541.1
Std Dev 0
pull1D
Entries 92
Mean 0.003509
Std Dev 1.066

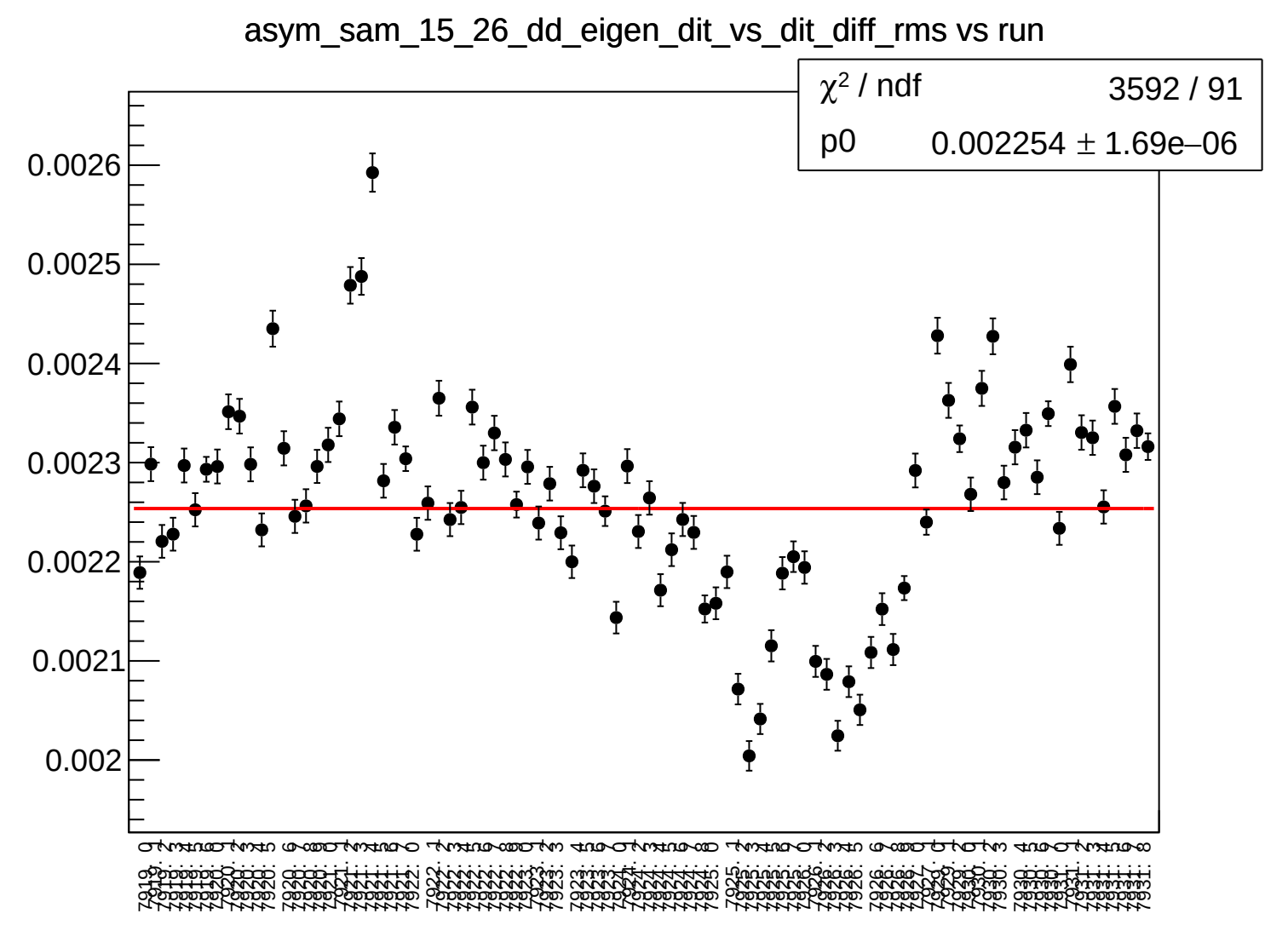

asym_sam_15_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.32e+04 / 91
p0 52.13 ± 0.0393
80
70
60
50
40

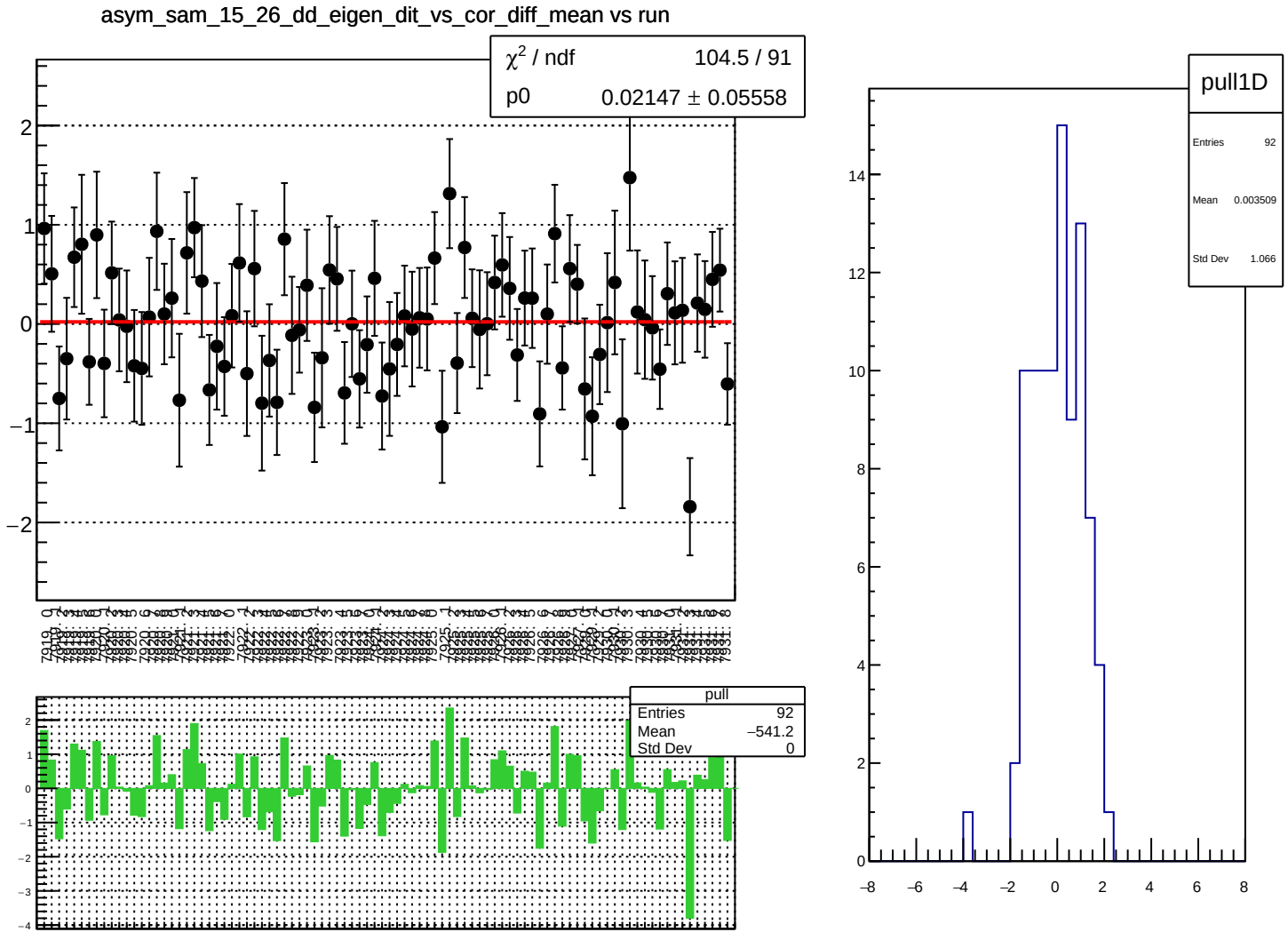

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.5 / 91
p0 0.02147 ± 0.05558
pull
Entries 92
Mean −541.1
Std Dev 0

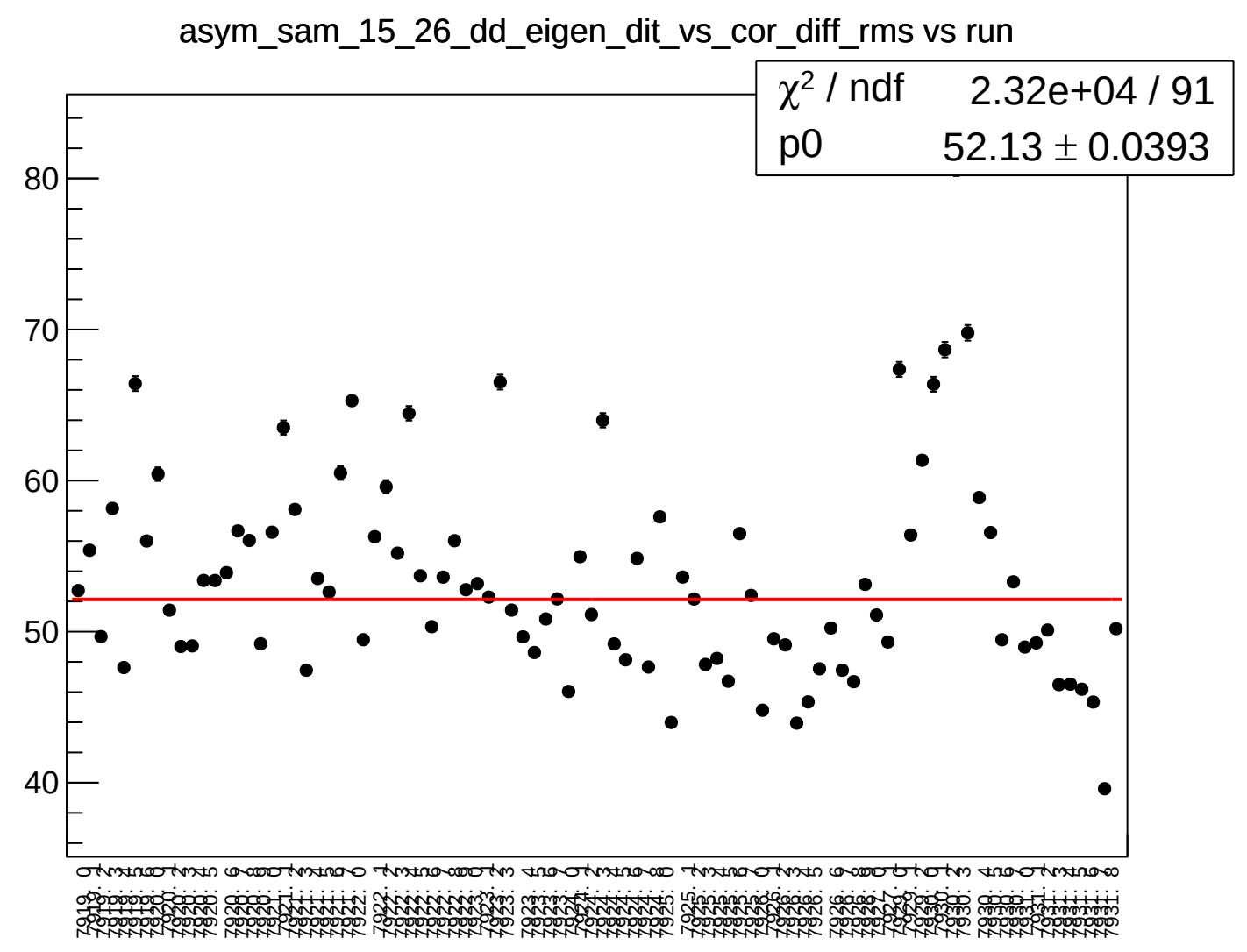

pull1D
Entries 92
Mean 0.003509
Std Dev 1.066

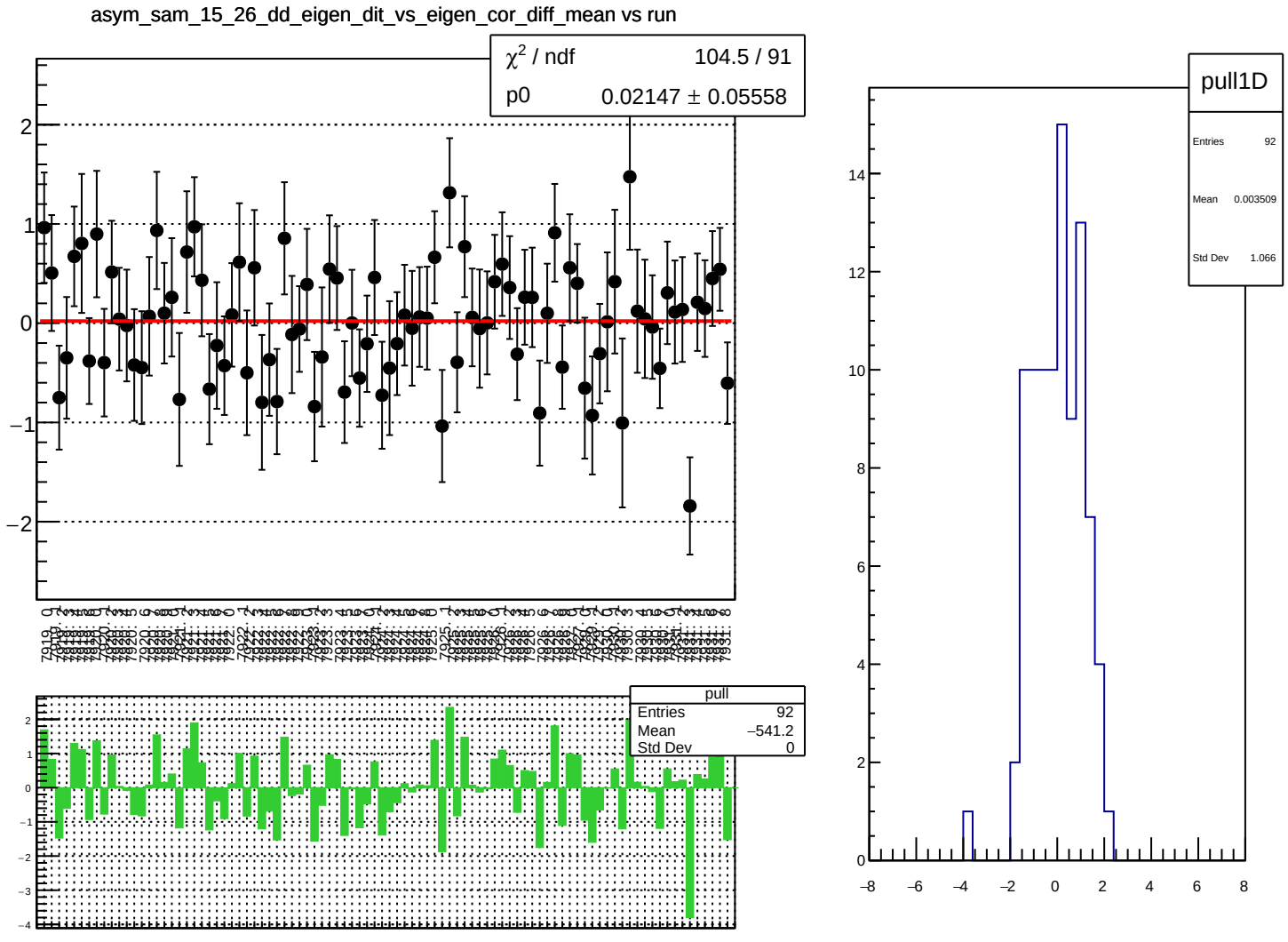

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.32e+04 / 91
p0 52.13 ± 0.0393
80
70
60
50
40

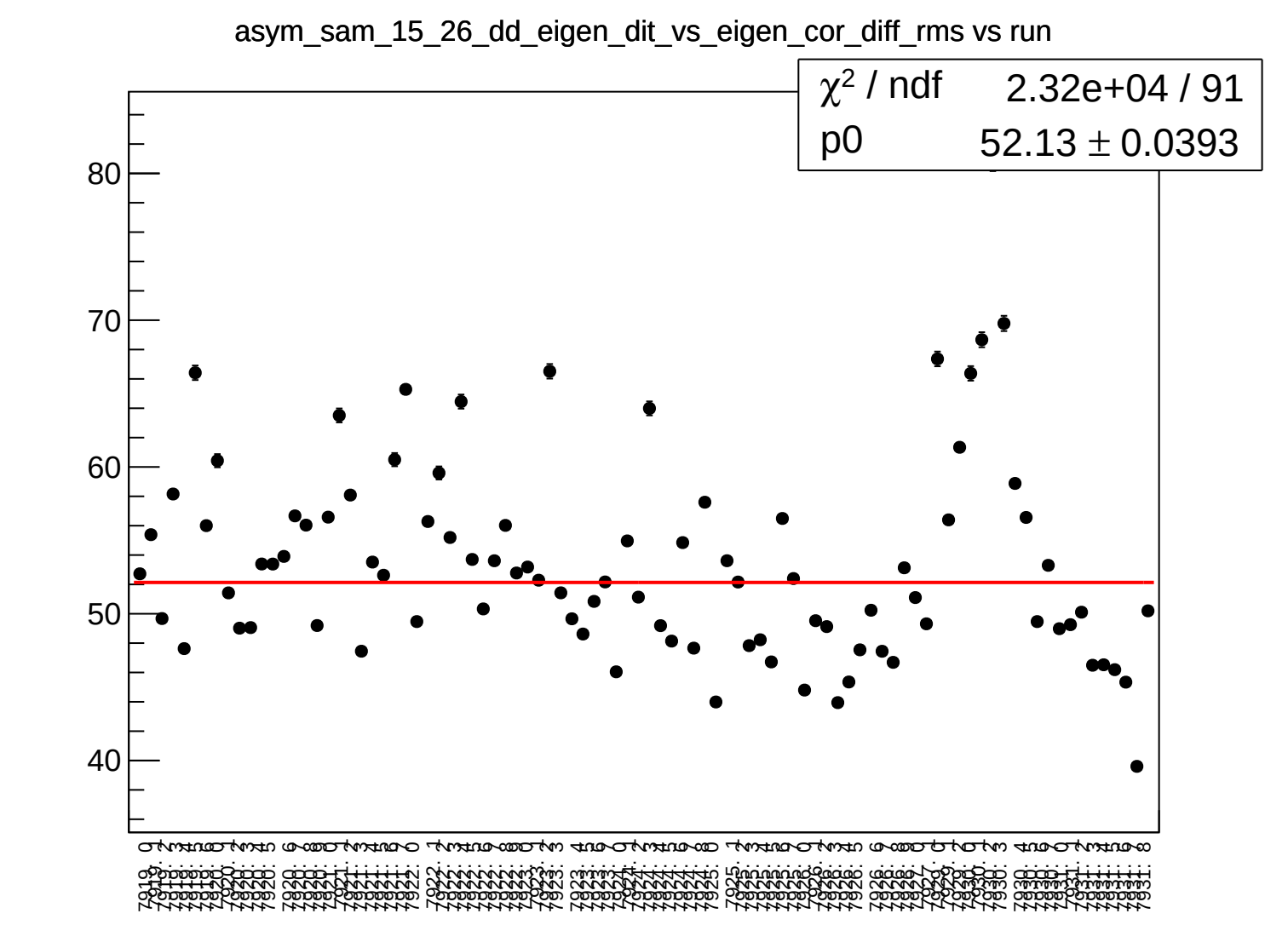

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.19 / 91
p0 2.13e−06 ± 2.389e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
pull
Entries 92
Mean −459.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.007098
Std Dev 1.022
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

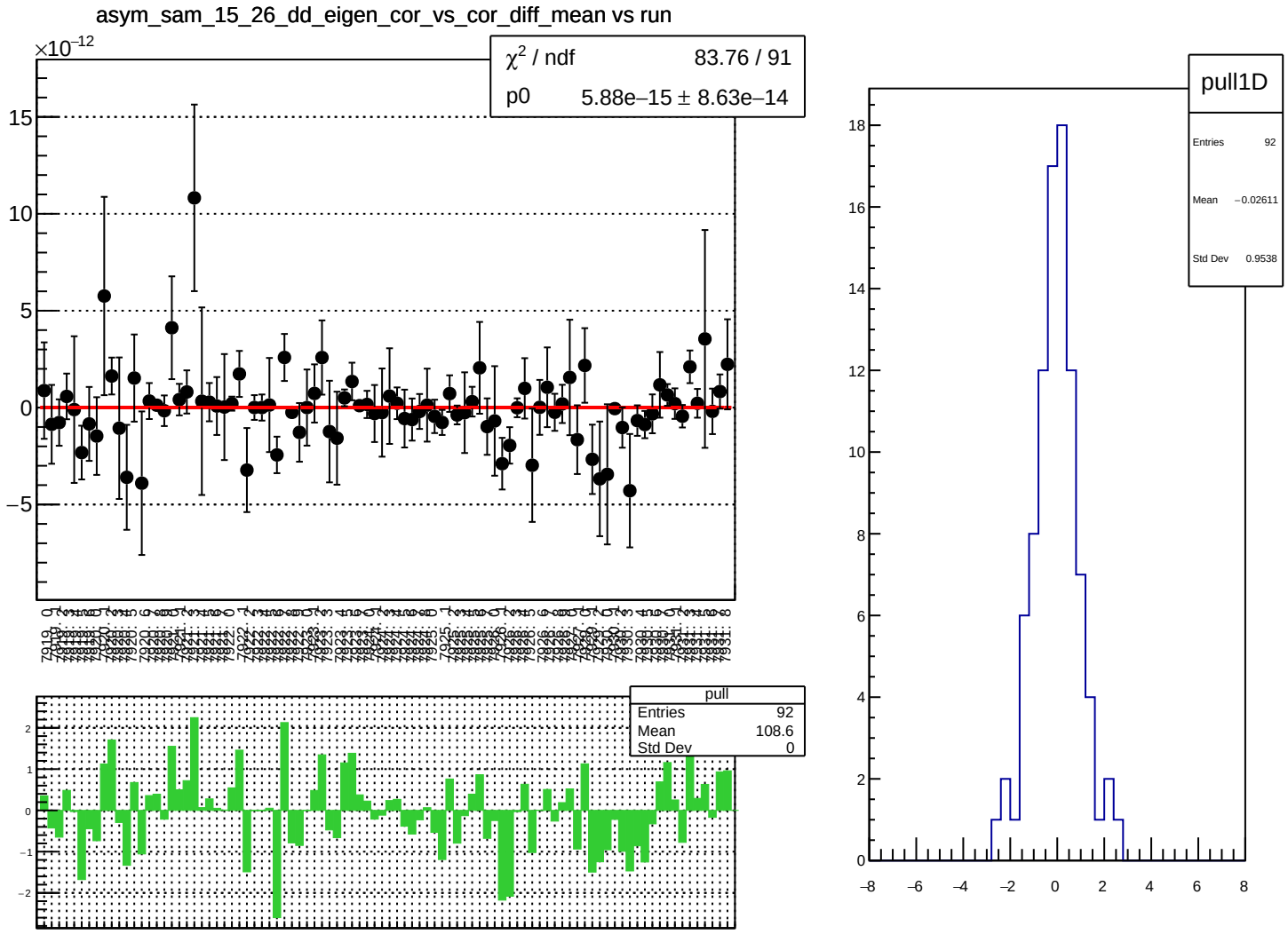

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3592 / 91
p0 0.002254 ± 1.69e−06
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021
0.002

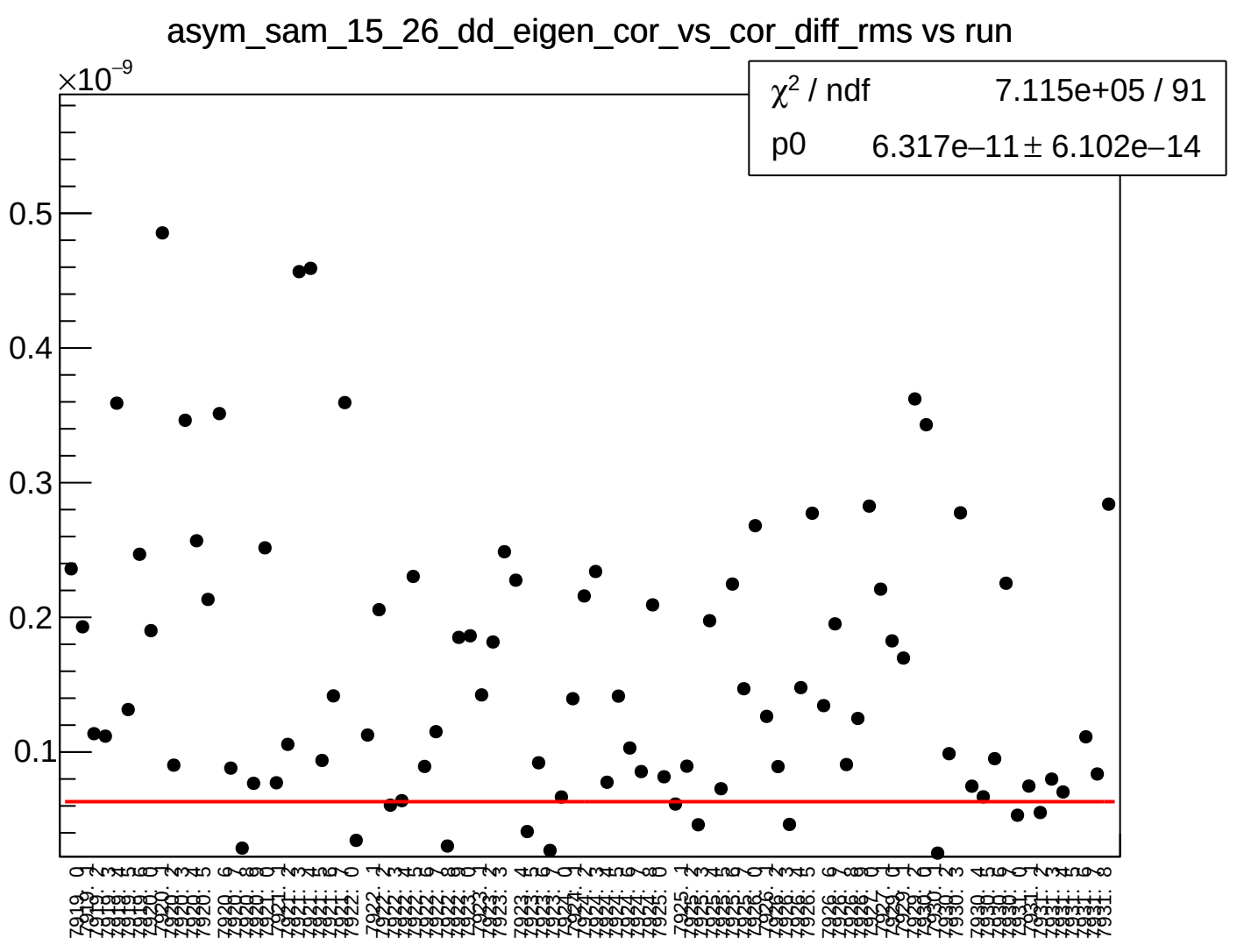

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 104.5 / 91
p0 0.02147 ± 0.05558
pull
Entries 92
Mean −541.2
Std Dev 0
pull1D
Entries 92
Mean 0.003509
Std Dev 1.066

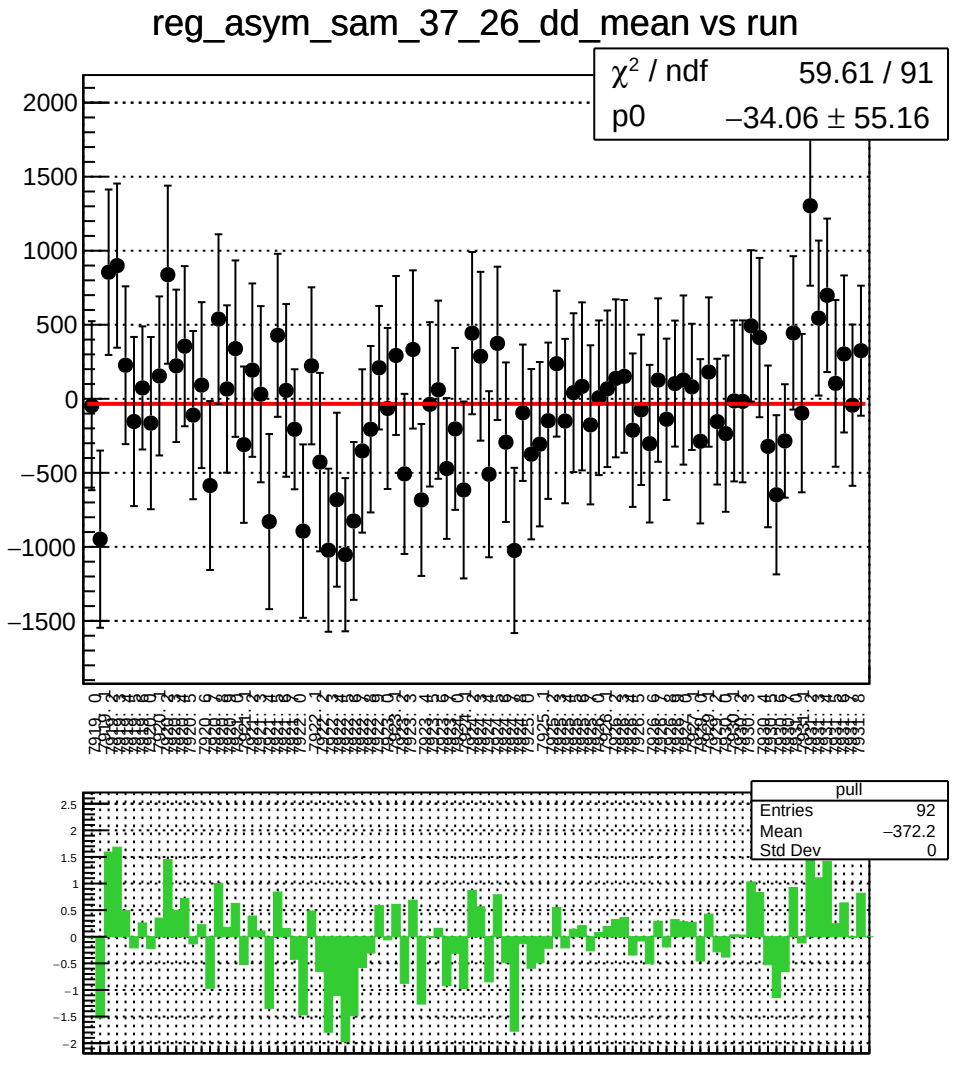

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.32e+04 / 91
p0 52.13 ± 0.0393
80
70
60
50
40

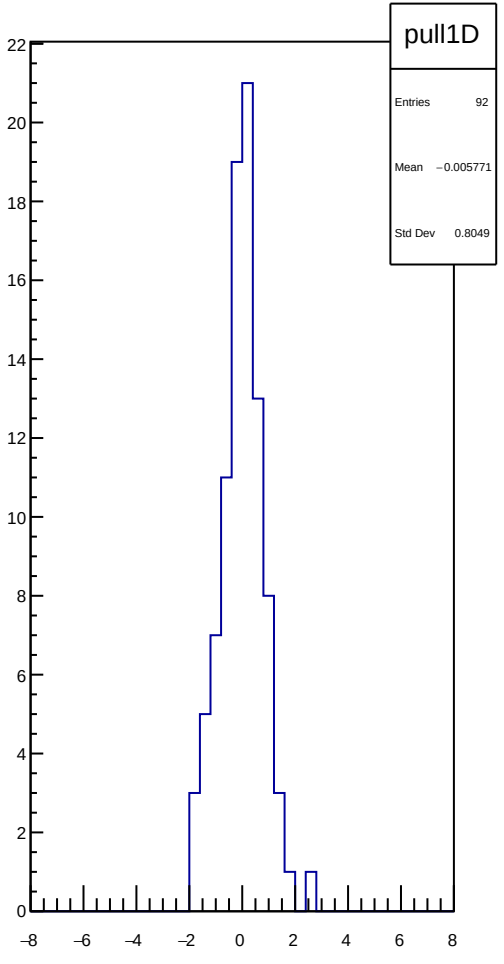

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.5 / 91
p0 0.02147 ± 0.05558
pull
Entries 92
Mean −541.2
Std Dev 0
pull1D
Entries 92
Mean 0.003509
Std Dev 1.066

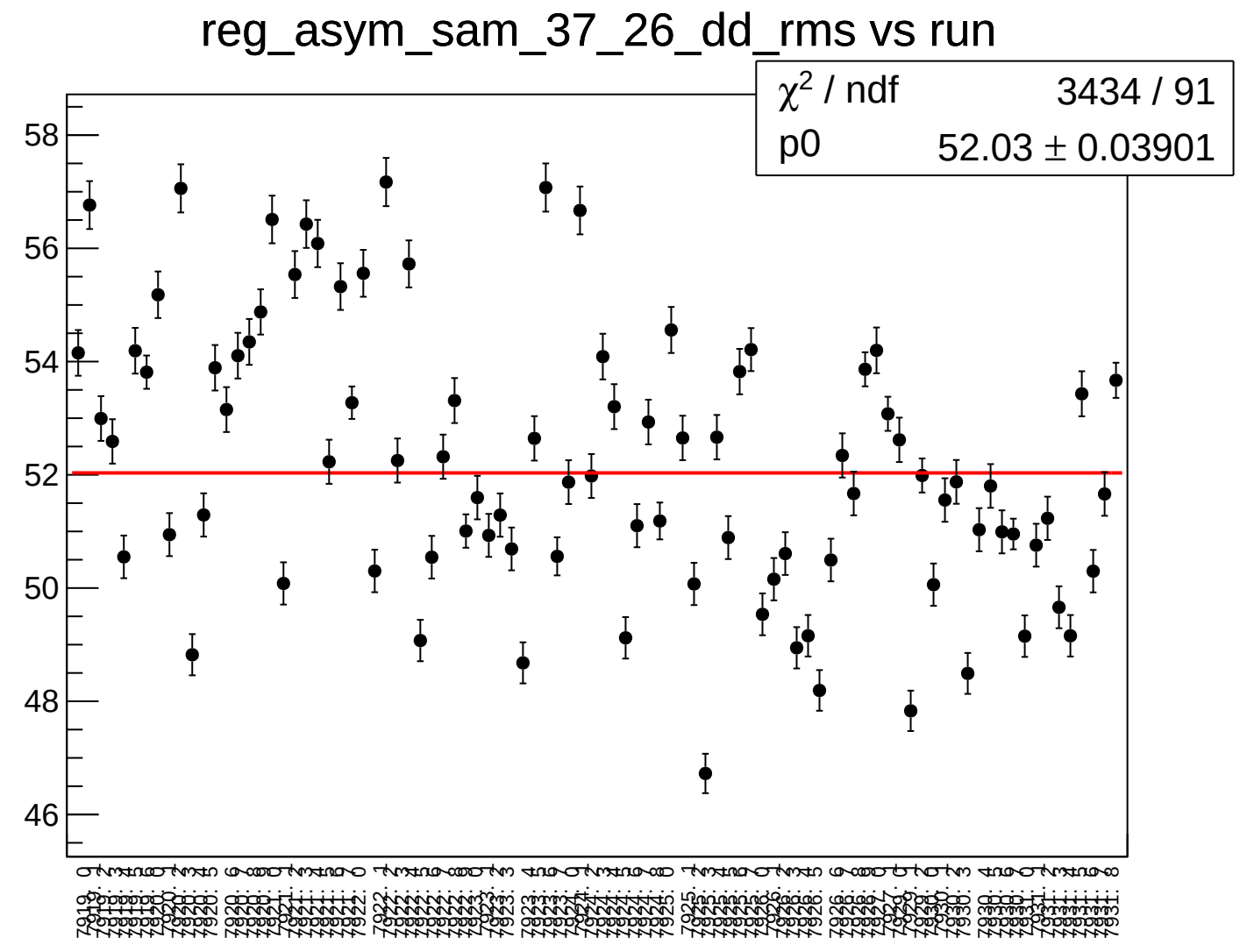

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.32e+04 / 91
p0 52.13 ± 0.0393
80
70
60
50
40

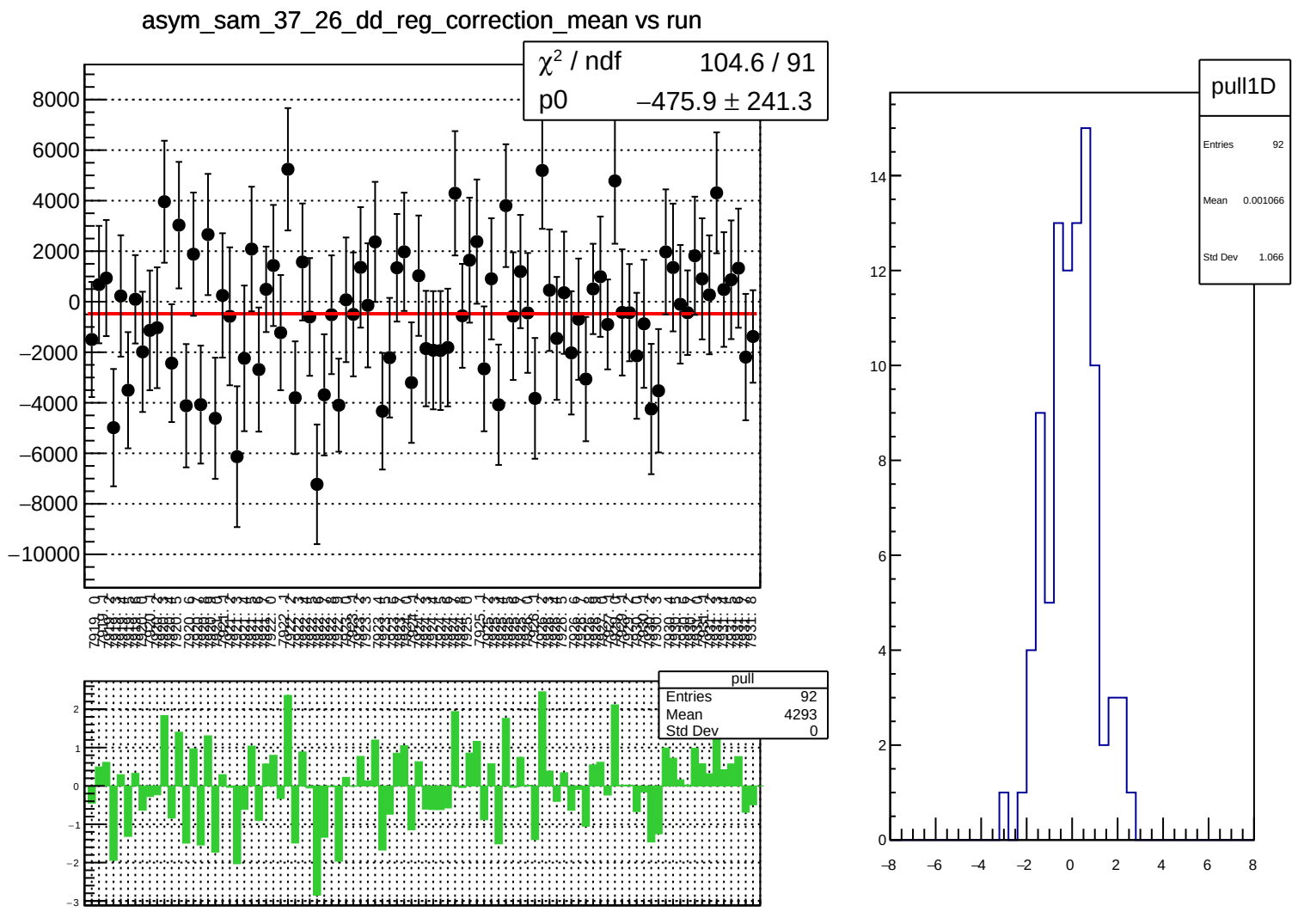

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.76 / 91
p0 5.88e−15 ± 8.63e−14
pull
Entries 92
Mean 108.6
Std Dev 0
pull1D
Entries 92
Mean −0.02611
Std Dev 0.9538

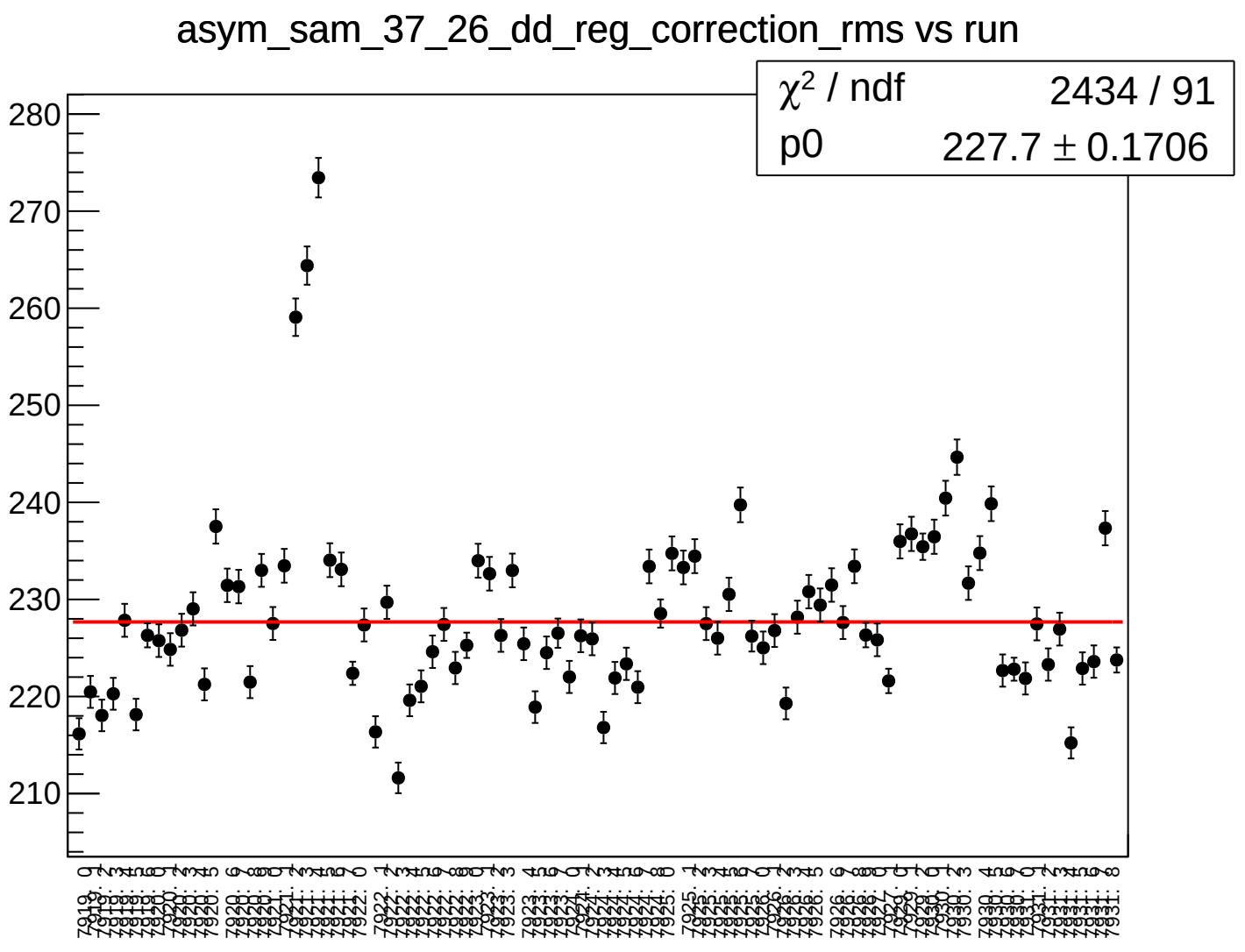

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.115e+05 / 91
p0 6.317e−11 ± 6.102e−14
0.5
0.4
0.3
0.2
0.1

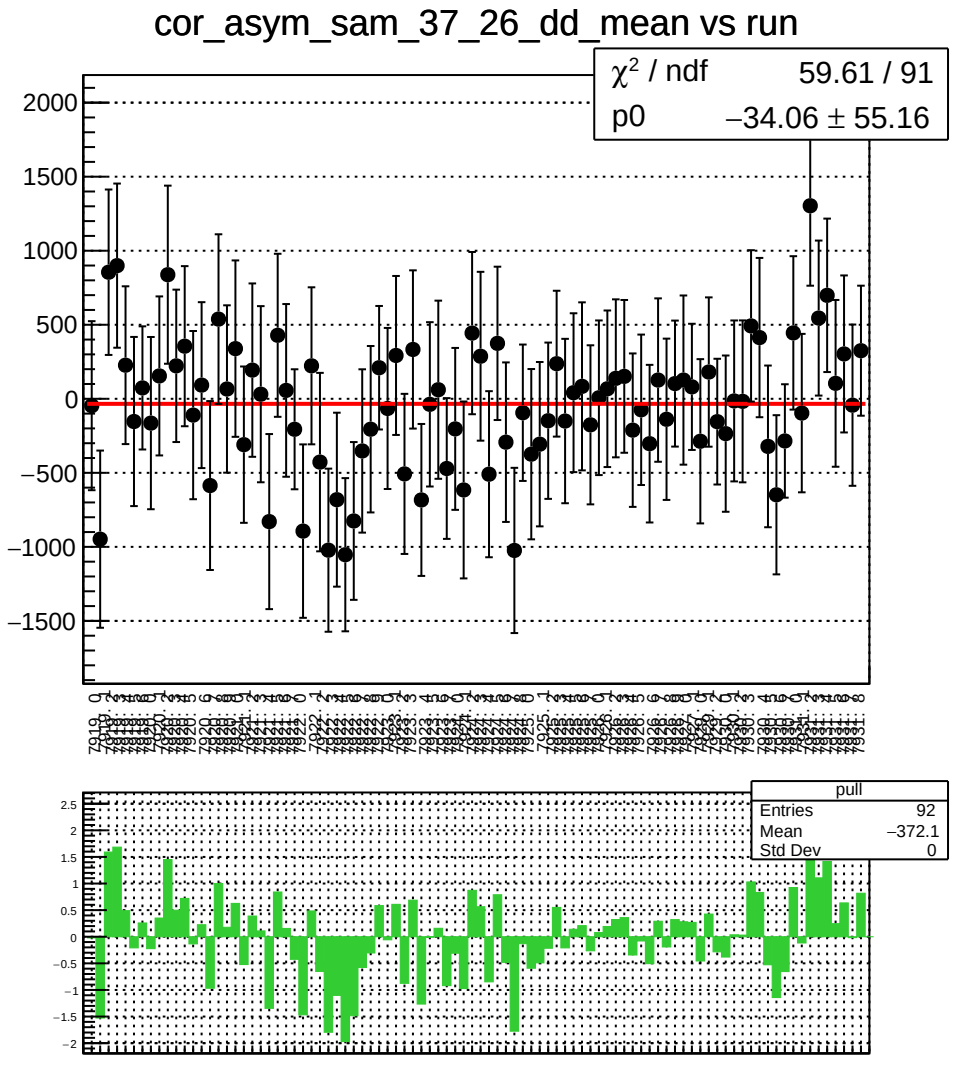

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 59.61 / 91
p0 −34.06 ± 55.16
pull
Entries 92
Mean −372.2
Std Dev 0

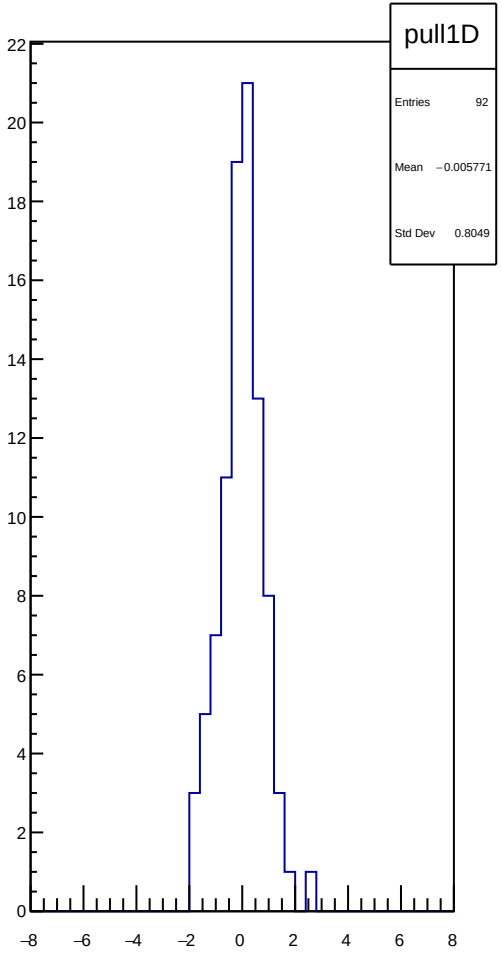

pull1D
Entries 92
Mean −0.005771
Std Dev 0.8049

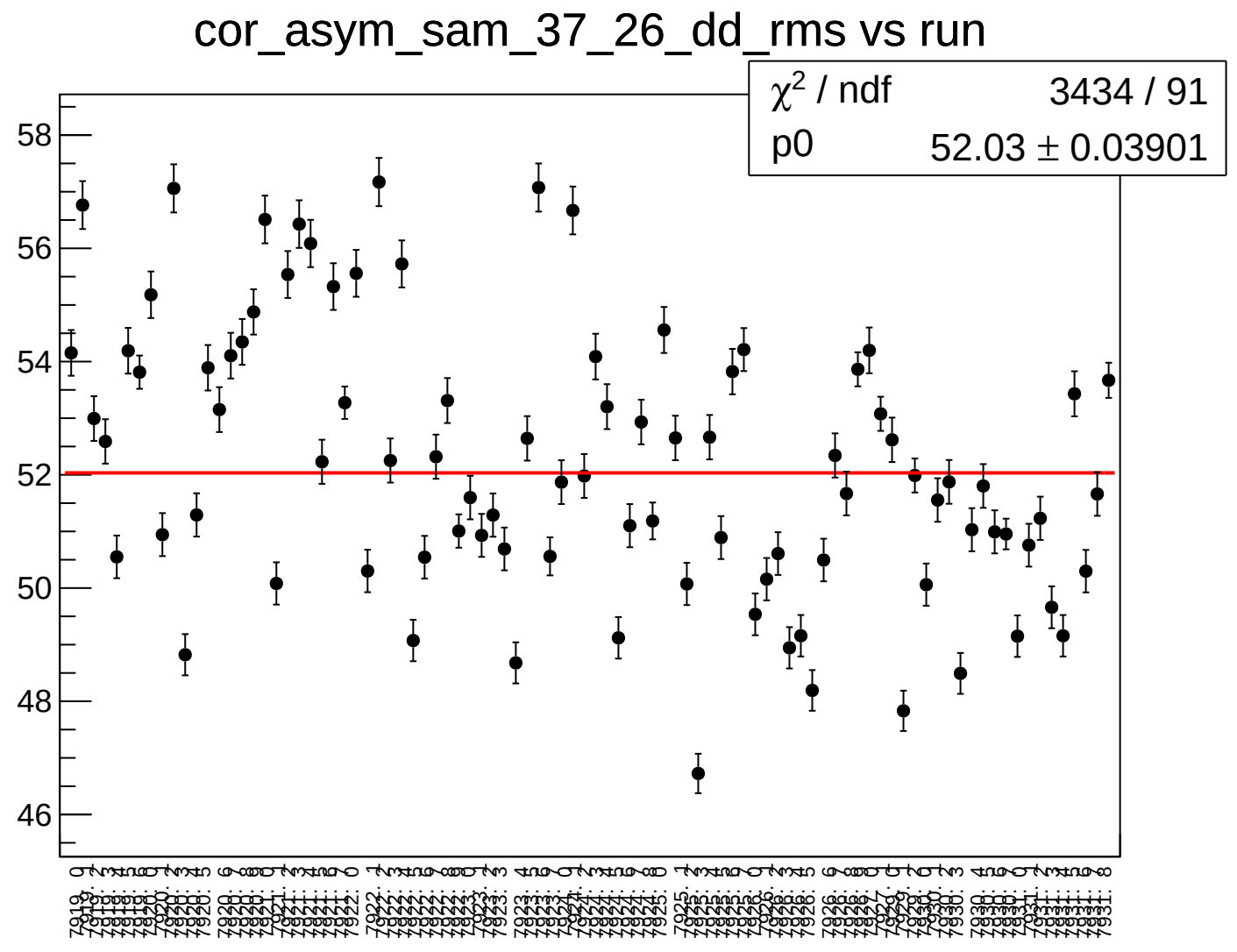

reg_asym_sam_37_26_dd_rms vs run
χ² / ndf 3434 / 91
p0 52.03 ± 0.03901
58
56
54
52
50
48
46

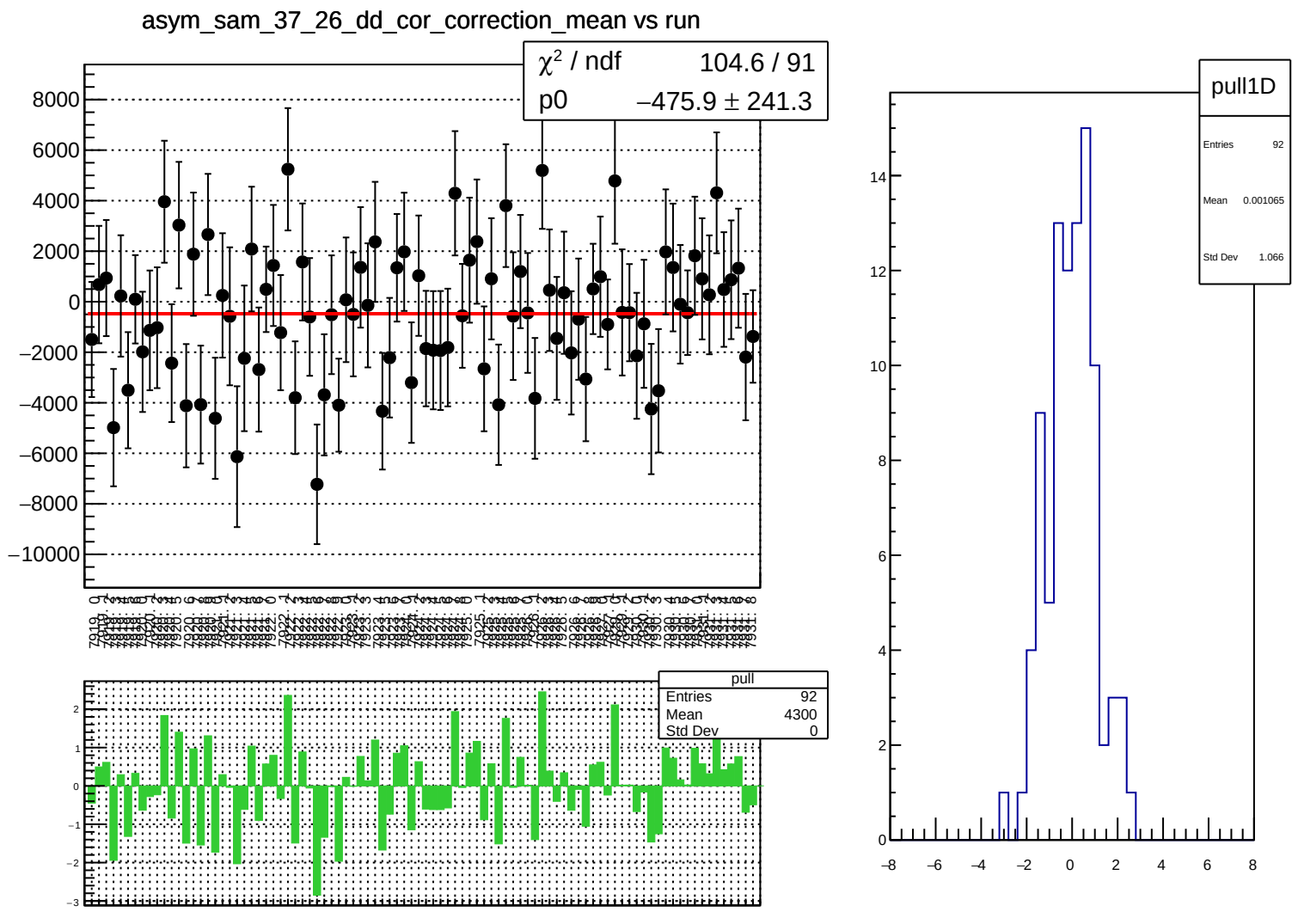

asym_sam_37_26_dd_reg_correction_mean vs run
χ² / ndf 104.6 / 91
p0 −475.9 ± 241.3
pull
Entries 92
Mean 4293
Std Dev 0
pull1D
Entries 92
Mean 0.001066
Std Dev 1.066

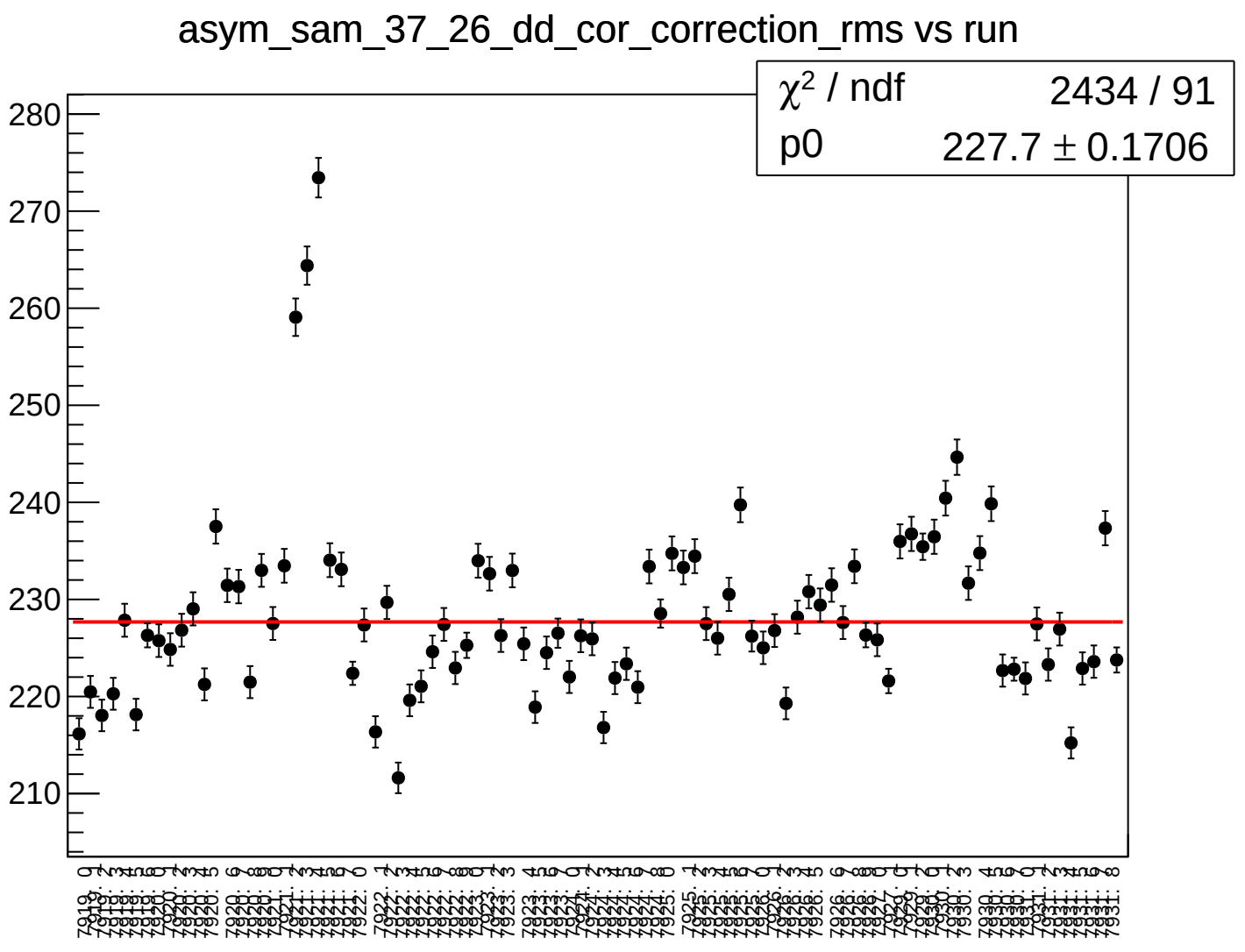

asym_sam_37_26_dd_reg_correction_rms vs run
χ^2 / ndf 2434 / 91
p0 227.7 ± 0.1706
280
270
260
250
240
230
220
210

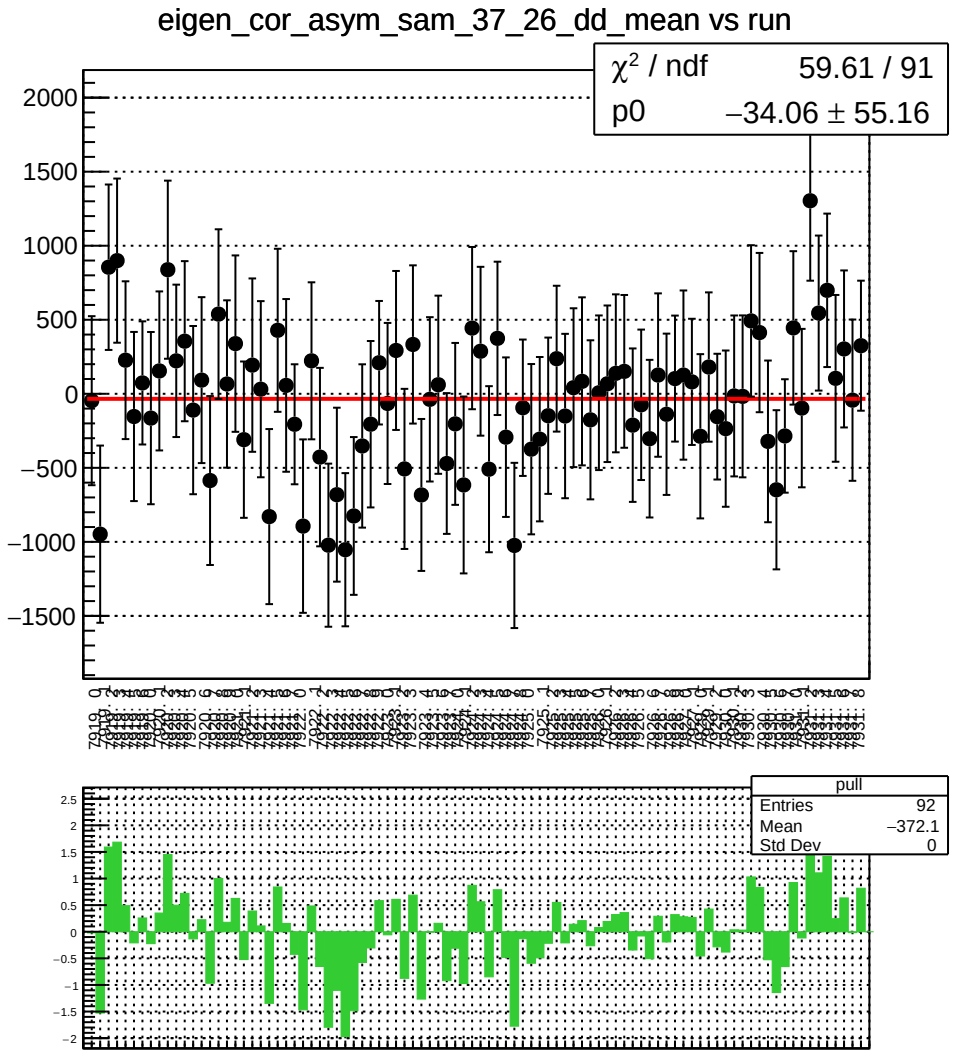

cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 59.61 / 91
p0 −34.06 ± 55.16
pull
Entries 92
Mean −372.1
Std Dev 0

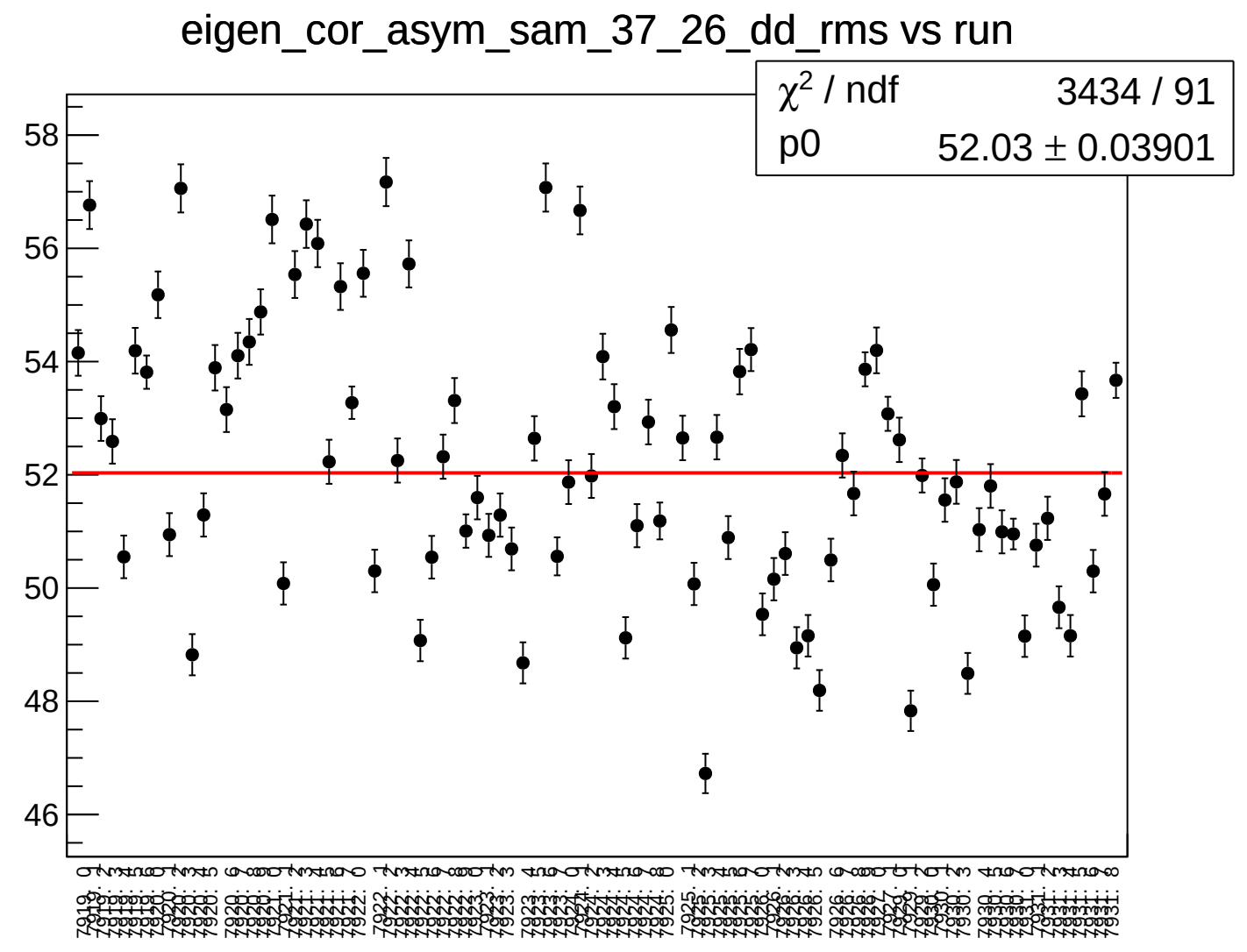

pull1D
Entries 92
Mean −0.005771
Std Dev 0.8049

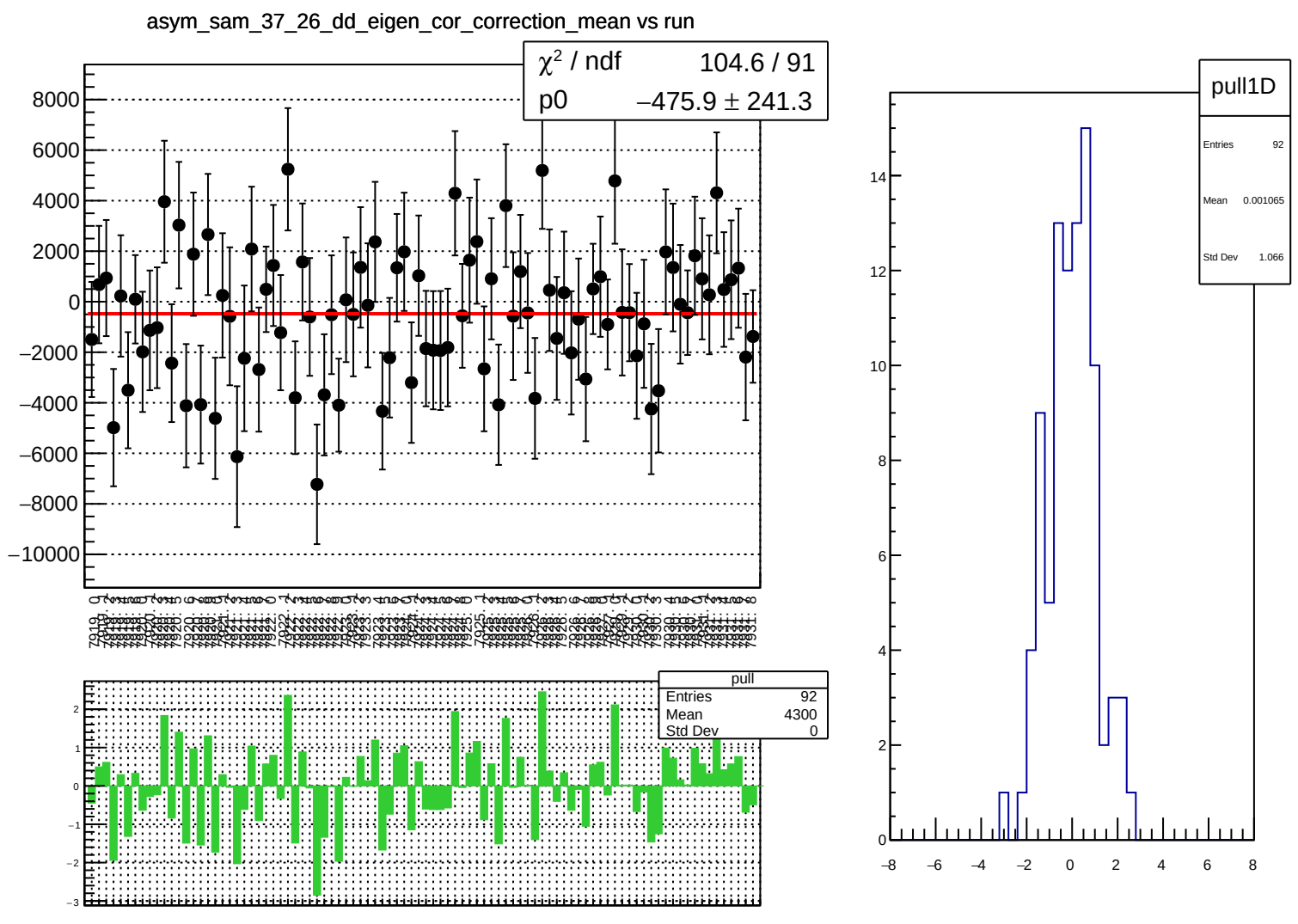

cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 3434 / 91
p0 52.03 ± 0.03901
58
56
54
52
50
48
46

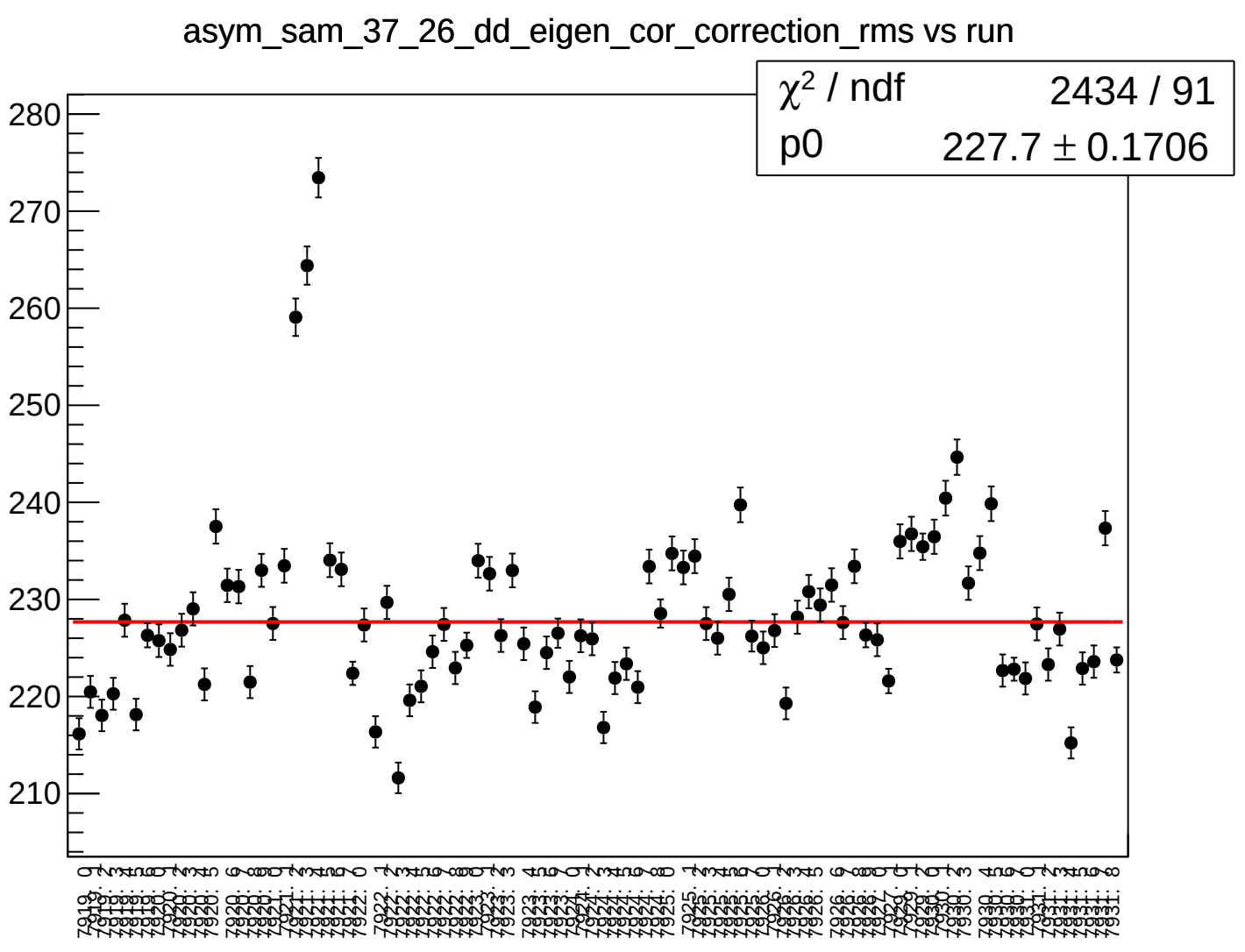

asym_sam_37_26_dd_cor_correction_mean vs run
χ² / ndf 104.6 / 91
p0 −475.9 ± 241.3
pull
Entries 92
Mean 4300
Std Dev 0
pull1D
Entries 92
Mean 0.001065
Std Dev 1.066

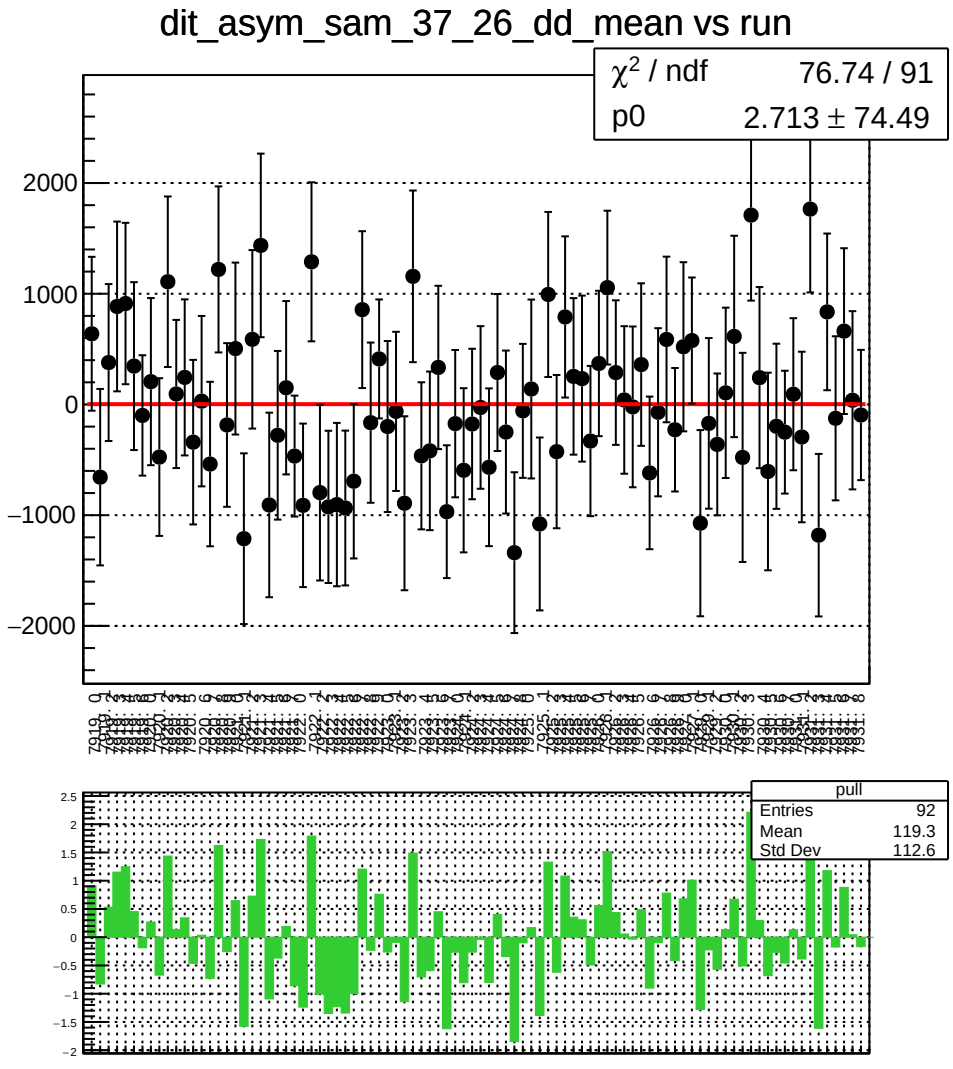

asym_sam_37_26_dd_cor_correction_rms vs run
χ^2 / ndf 2434 / 91
p0 227.7 ± 0.1706
280
270
260
250
240
230
220
210

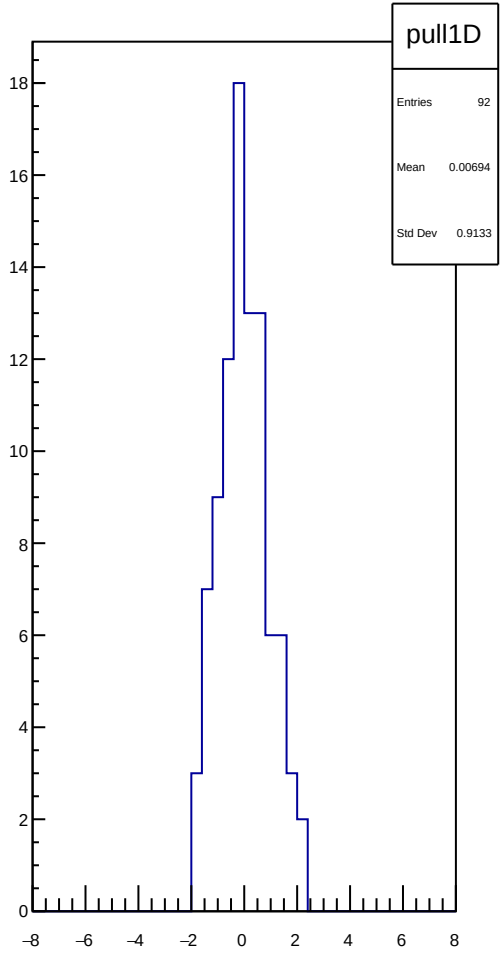

eigen_cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 59.61 / 91
p0 −34.06 ± 55.16
pull
Entries 92
Mean −372.1
Std Dev 0
pull1D
Entries 92
Mean −0.005771
Std Dev 0.8049

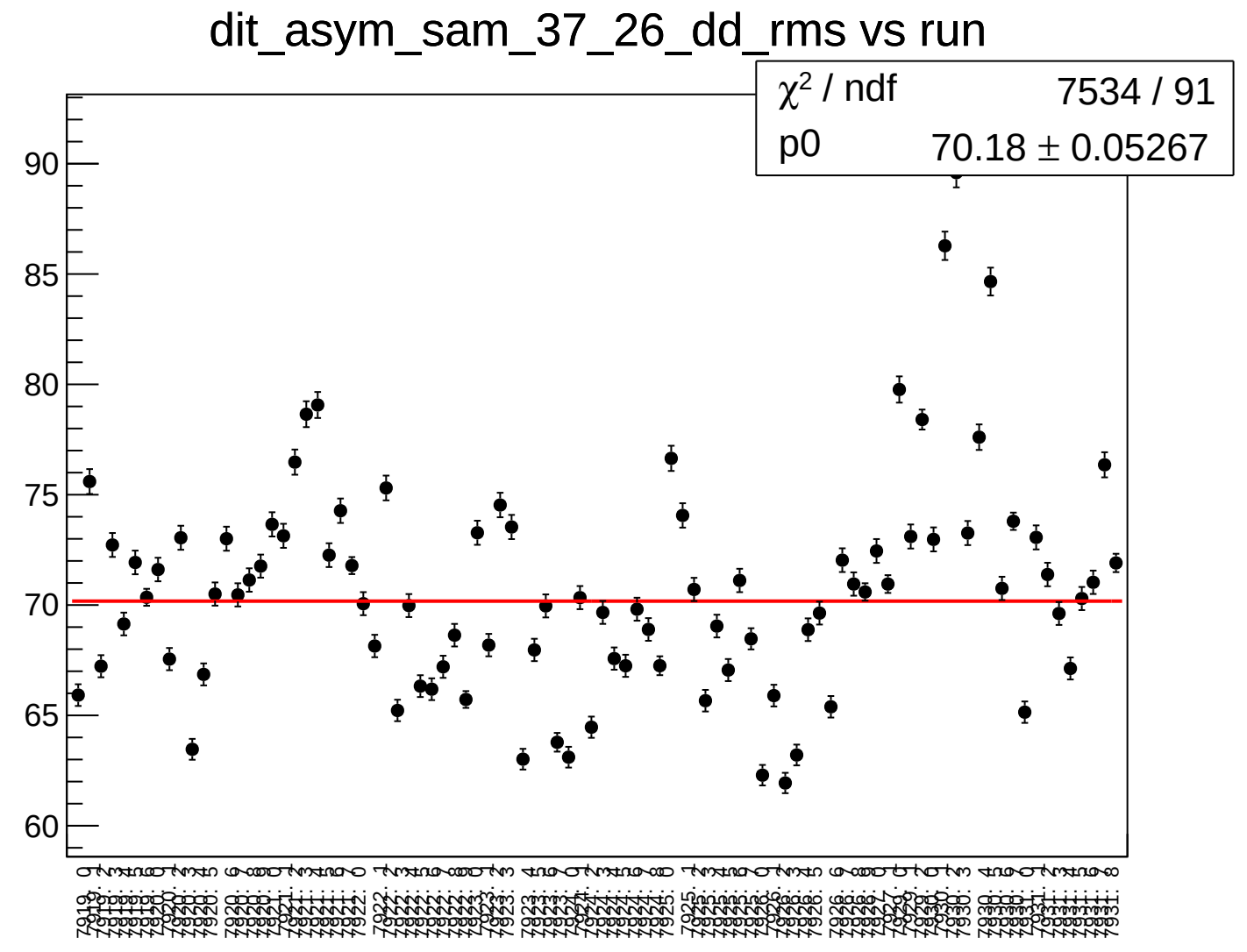

eigen_cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 3434 / 91
p0 52.03 ± 0.03901
58
56
54
52
50
48
46

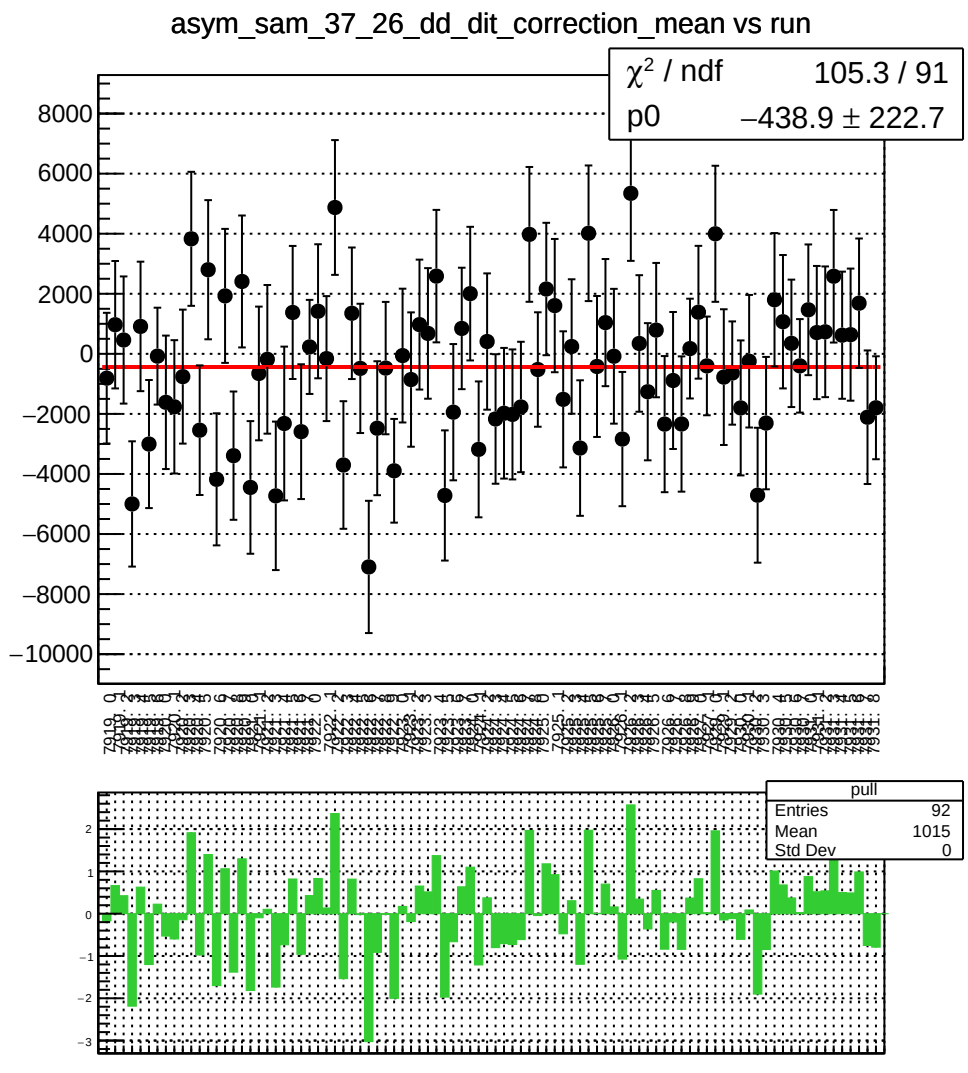

asym_sam_37_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 104.6 / 91
p0 −475.9 ± 241.3
pull
Entries 92
Mean 4300
Std Dev 0
pull1D
Entries 92
Mean 0.001065
Std Dev 1.066

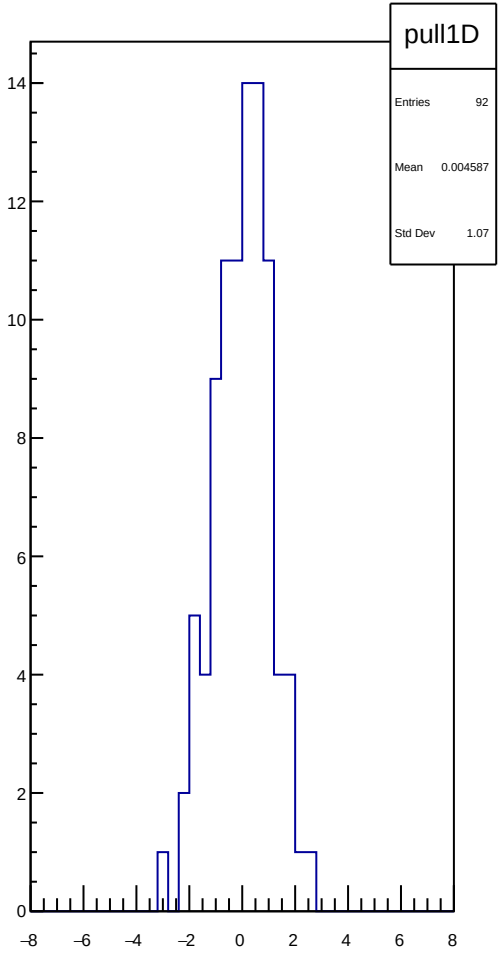

asym_sam_37_26_dd_eigen_cor_correction_rms vs run
χ^2 / ndf 2434 / 91
p0 227.7 ± 0.1706
280
270
260
250
240
230
220
210

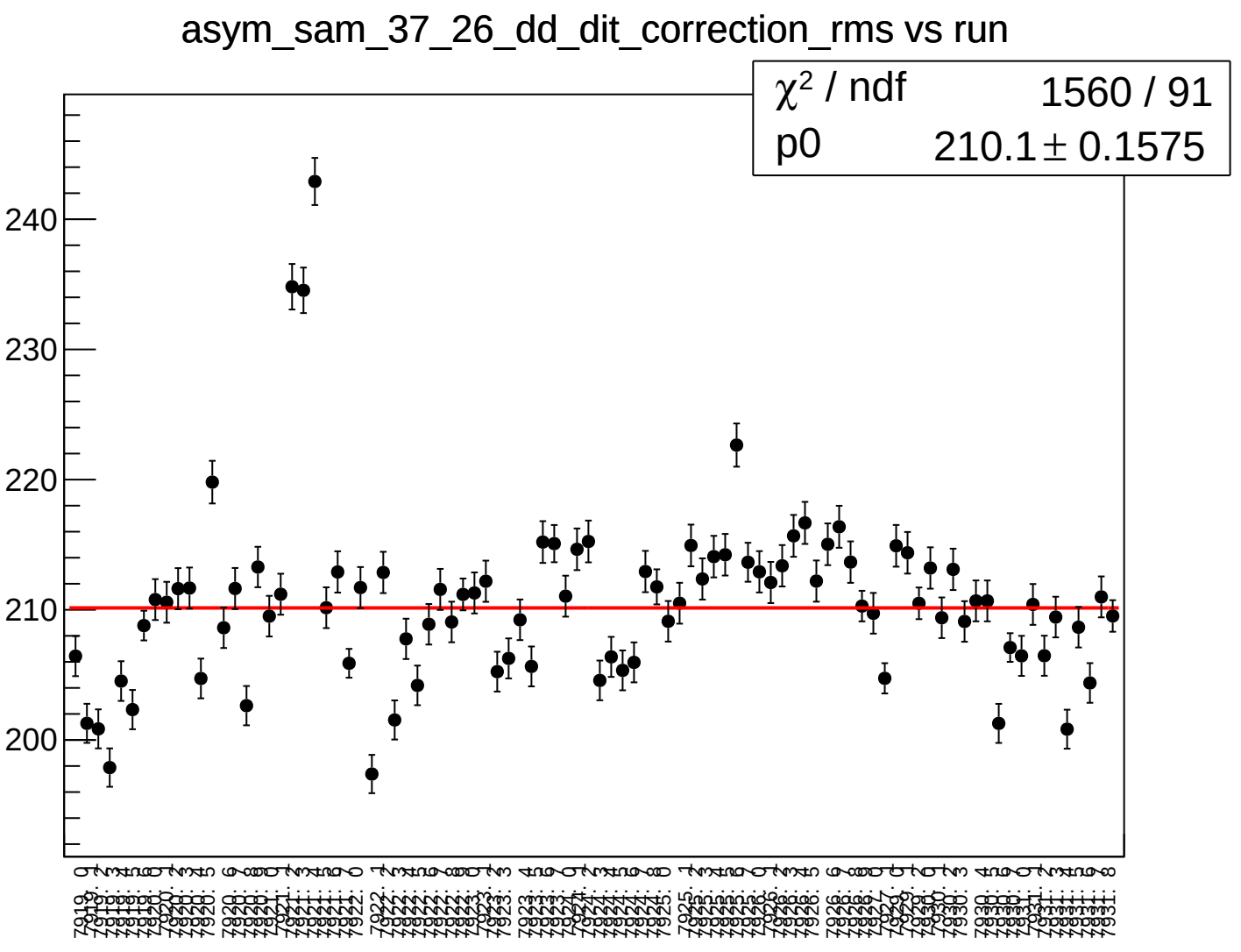

dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 76.74 / 91
p0 2.713 ± 74.49
2000
1000
0
−1000
−2000
pull
Entries 92
Mean 119.3
Std Dev 112.6
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

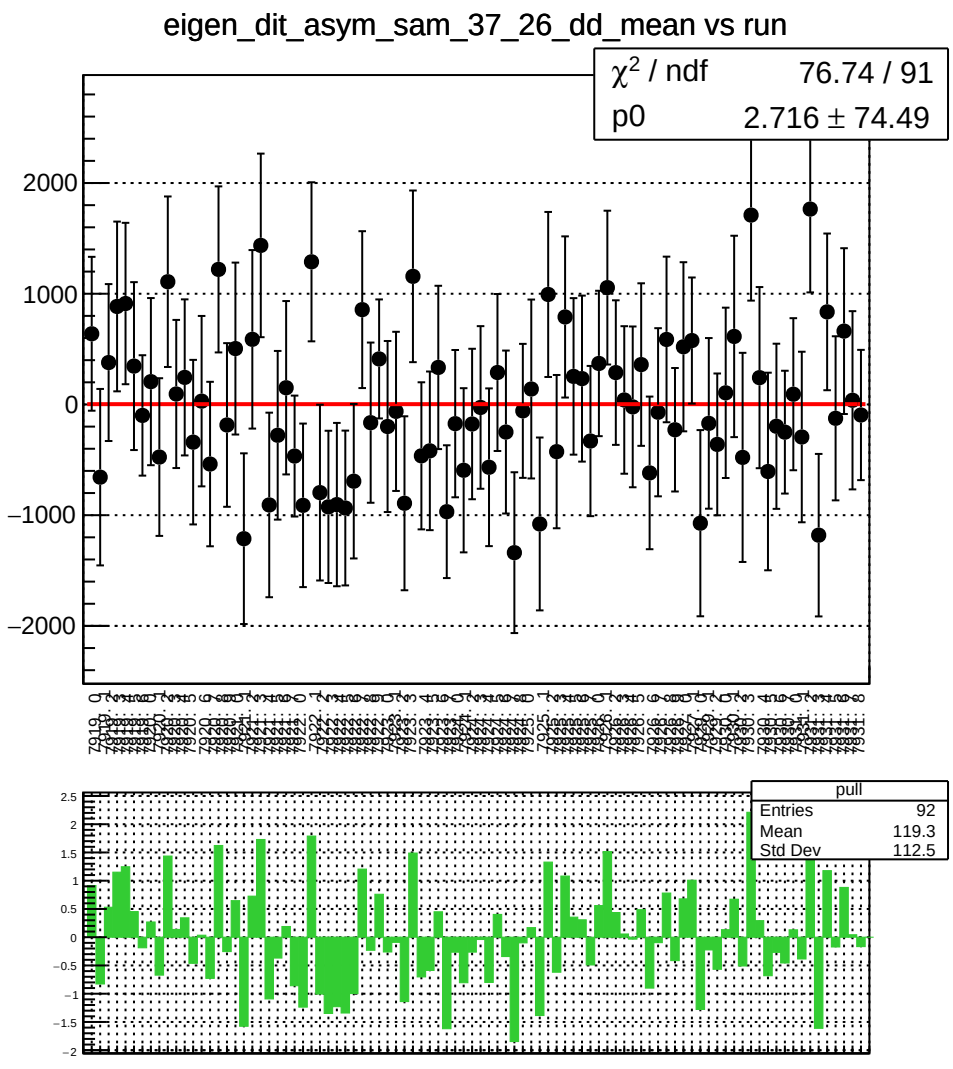

pull1D
Entries 92
Mean 0.00694
Std Dev 0.9133
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

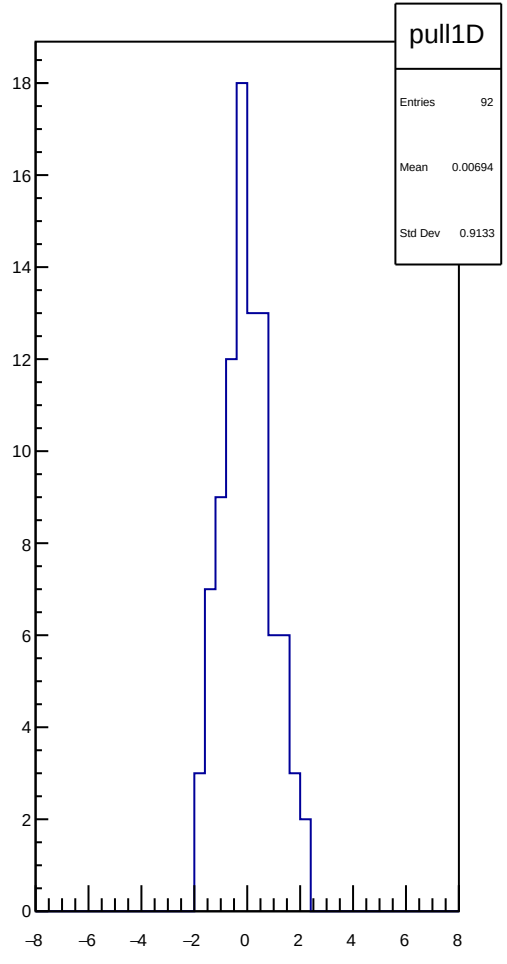

dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 7534 / 91
p0 70.18 ± 0.05267
90
85
80
75
70
65
60

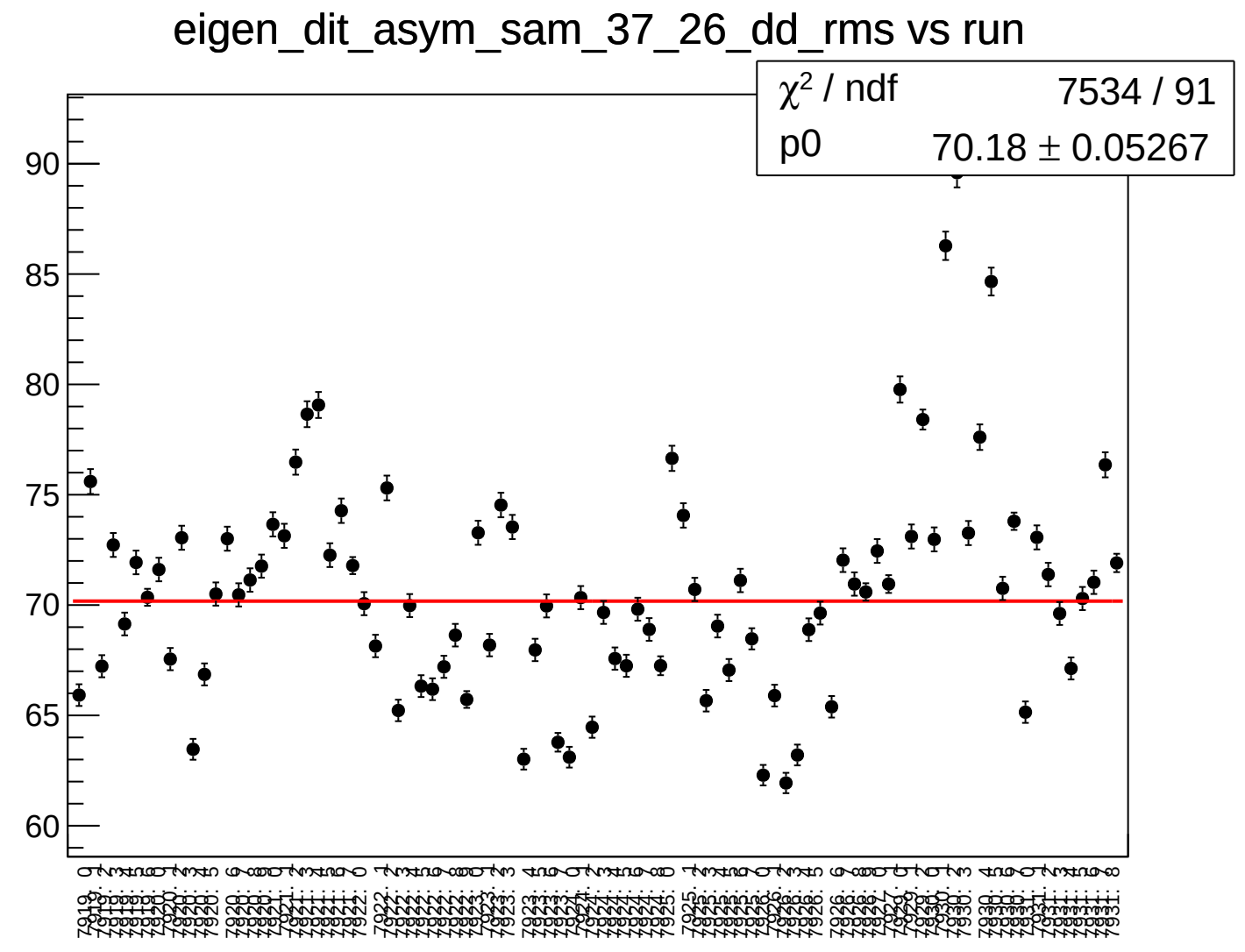

asym_sam_37_26_dd_dit_correction_mean vs run
χ² / ndf 105.3 / 91
p0 −438.9 ± 222.7
pull
Entries 92
Mean 1015
Std Dev 0

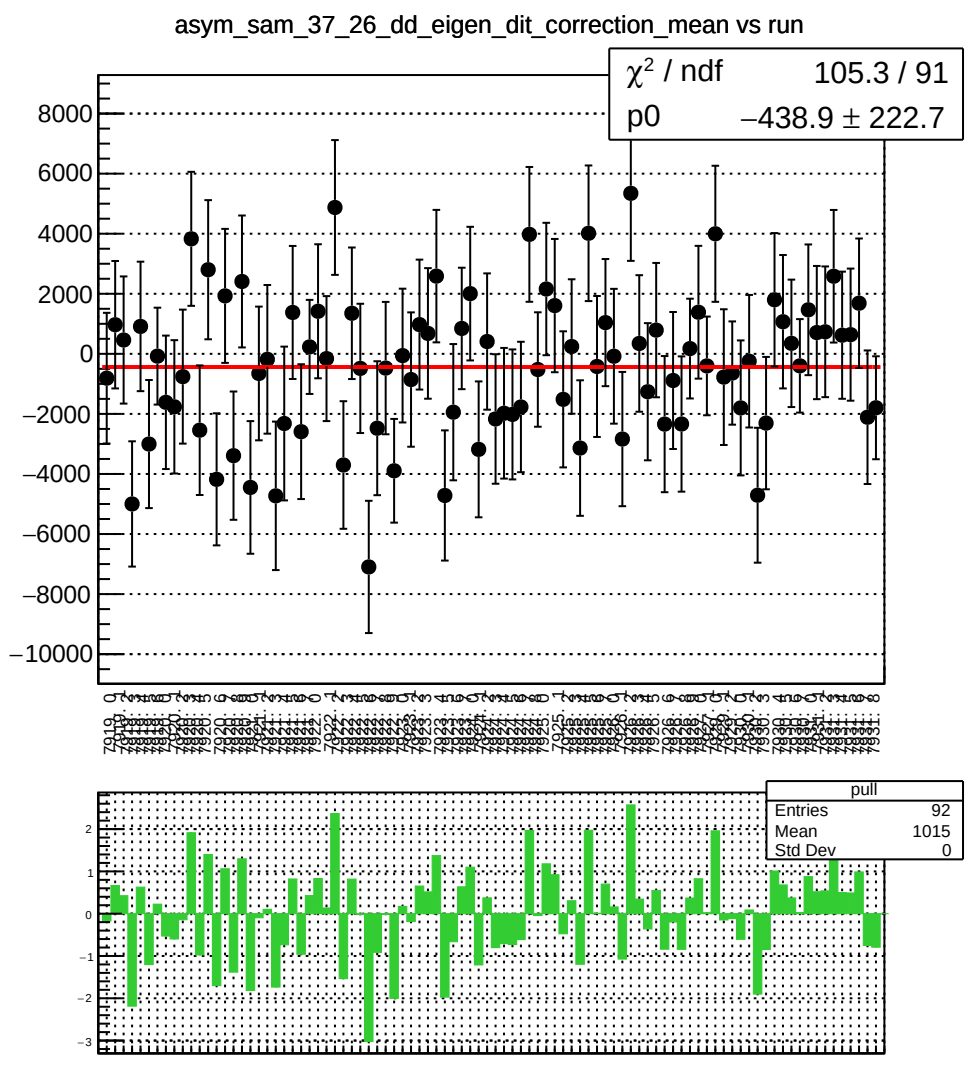

pull1D
Entries 92
Mean 0.004587
Std Dev 1.07

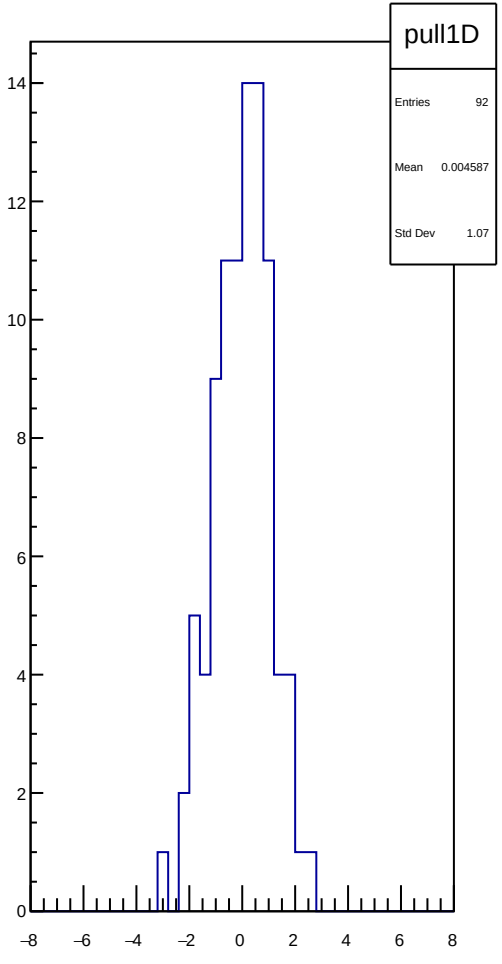

asym_sam_37_26_dd_dit_correction_rms vs run
χ² / ndf 1560 / 91
p0 210.1 ± 0.1575
240
230
220
210
200

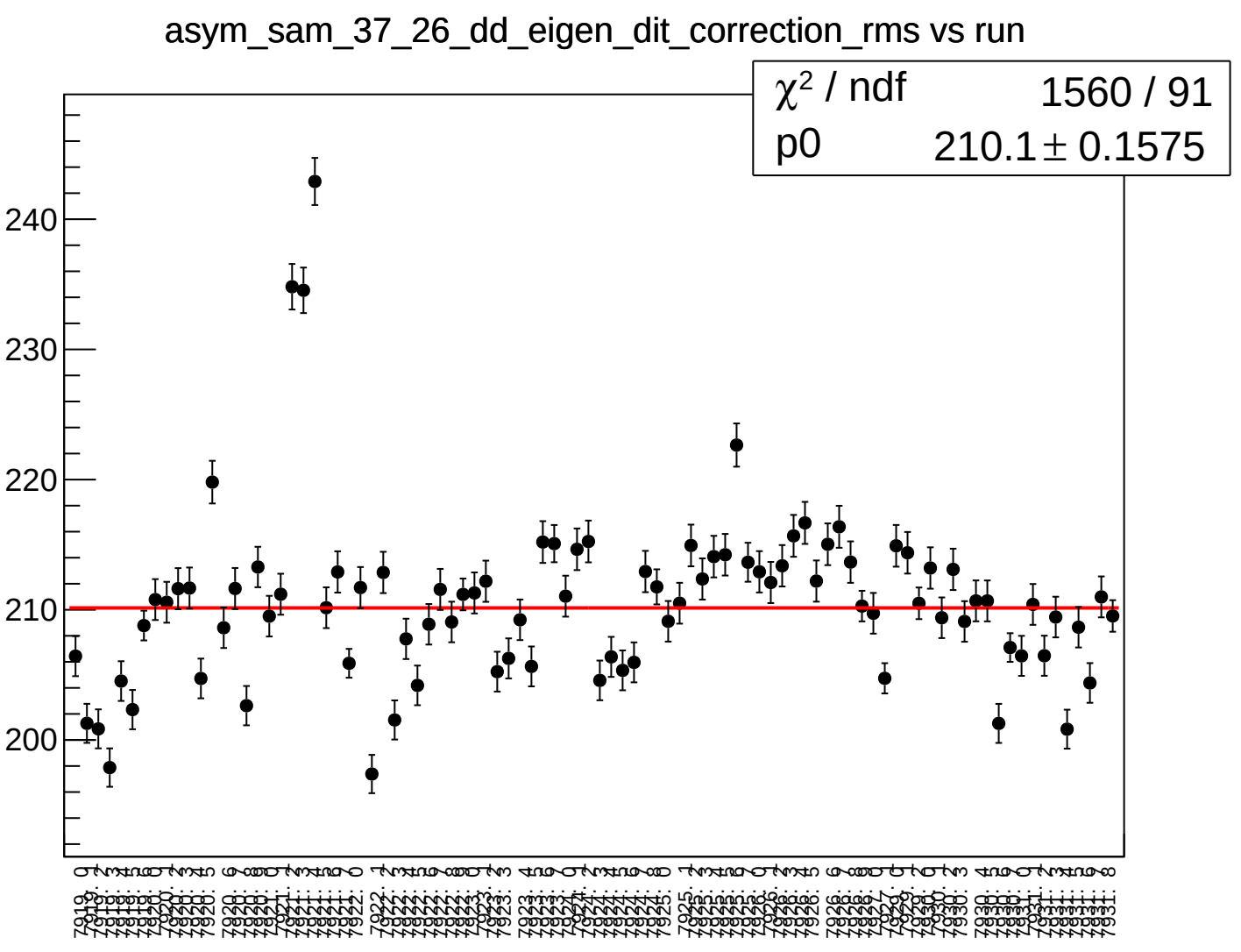

eigen_dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 76.74 / 91
p0 2.716 ± 74.49
2000
1000
0
−1000
−2000
pull
Entries 92
Mean 119.3
Std Dev 112.5
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

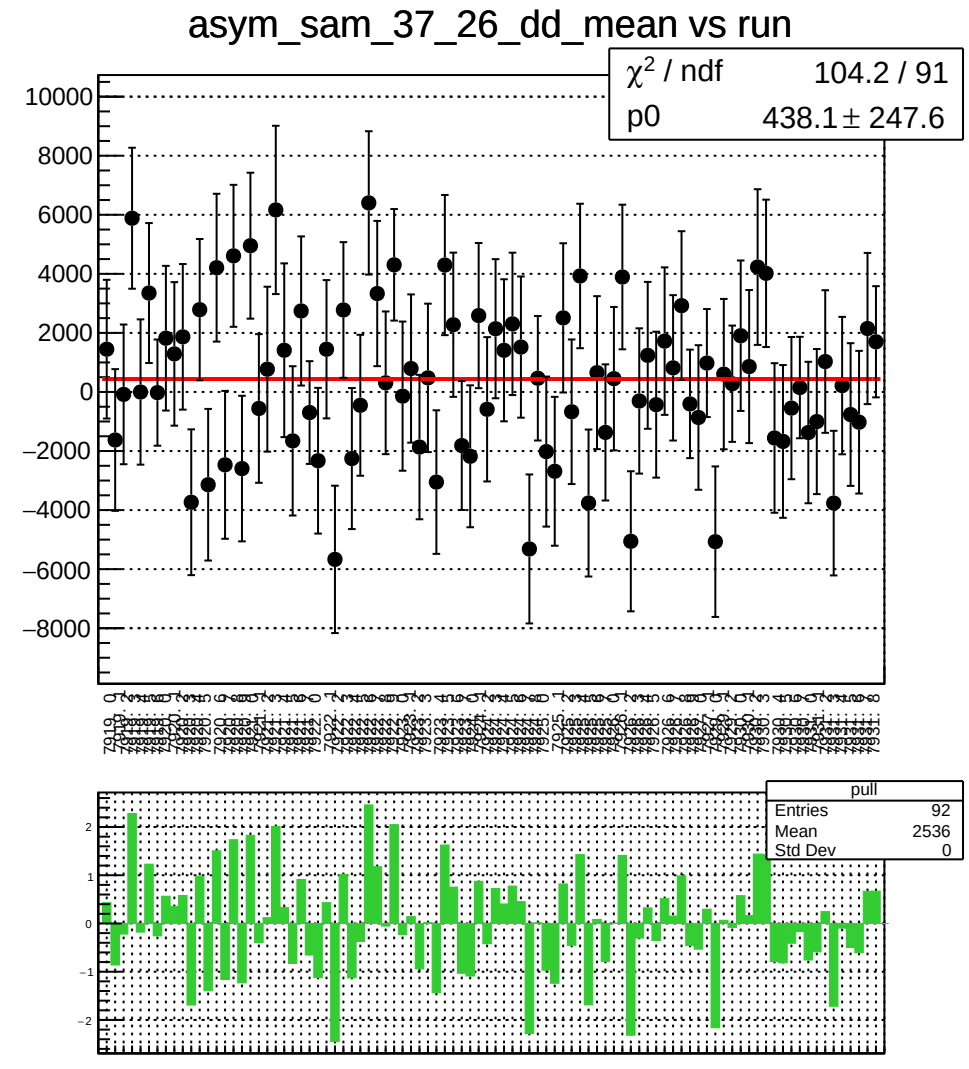

pull1D
Entries 92
Mean 0.00694
Std Dev 0.9133
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

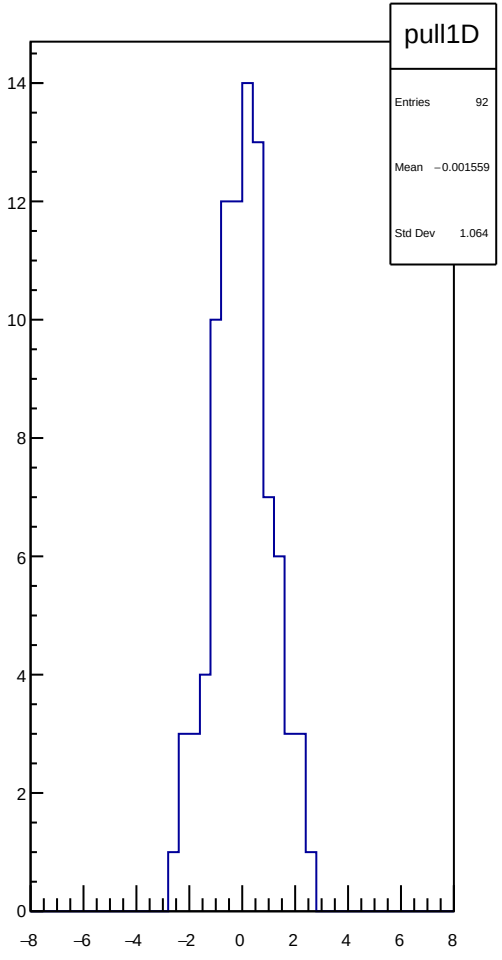

eigen_dit_asym_sam_37_26_dd_rms vs run
χ^2 / ndf 7534 / 91
p0 70.18 ± 0.05267
90
85
80
75
70
65
60

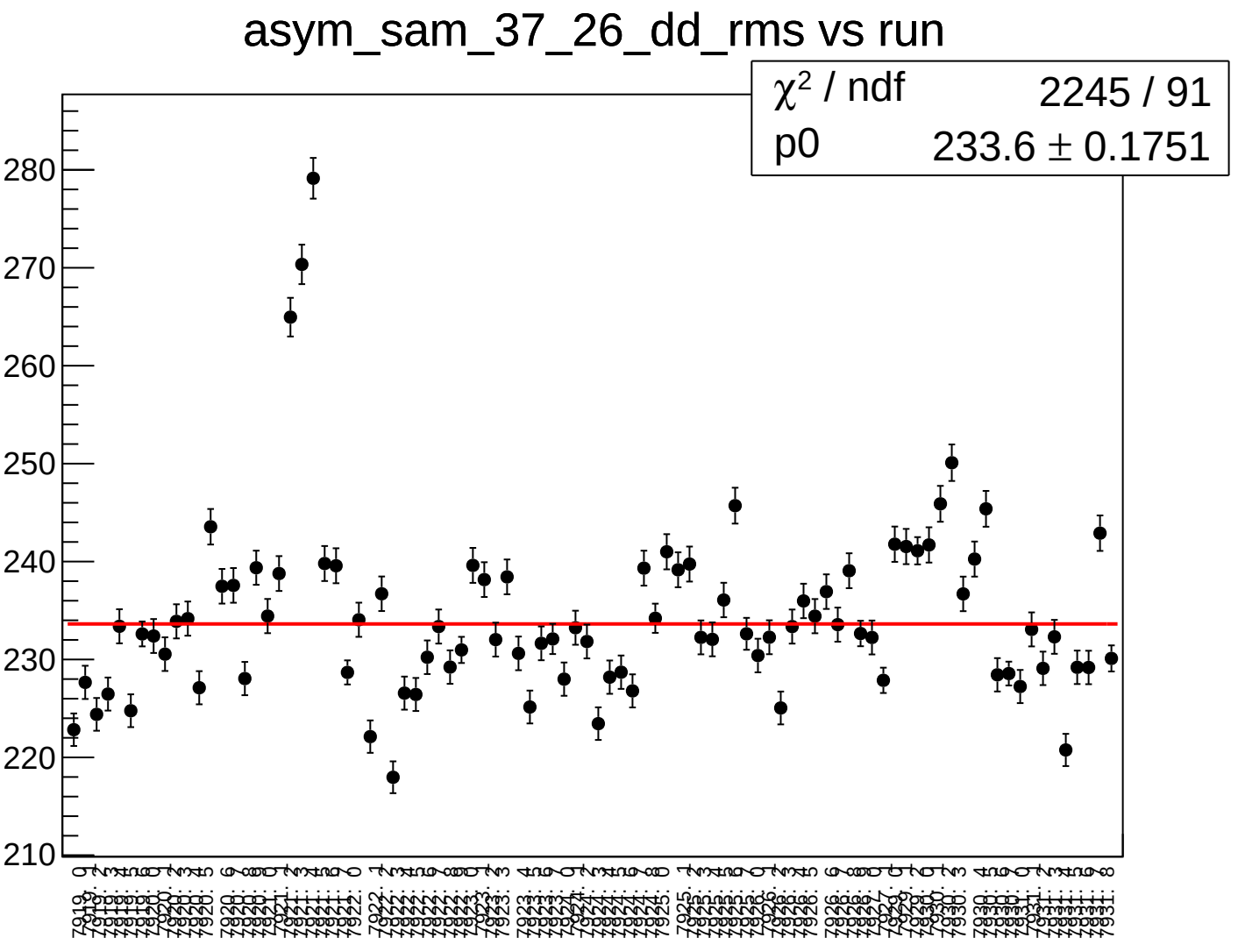

asym_sam_37_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 105.3 / 91
p0 −438.9 ± 222.7
pull
Entries 92
Mean 1015
Std Dev 0

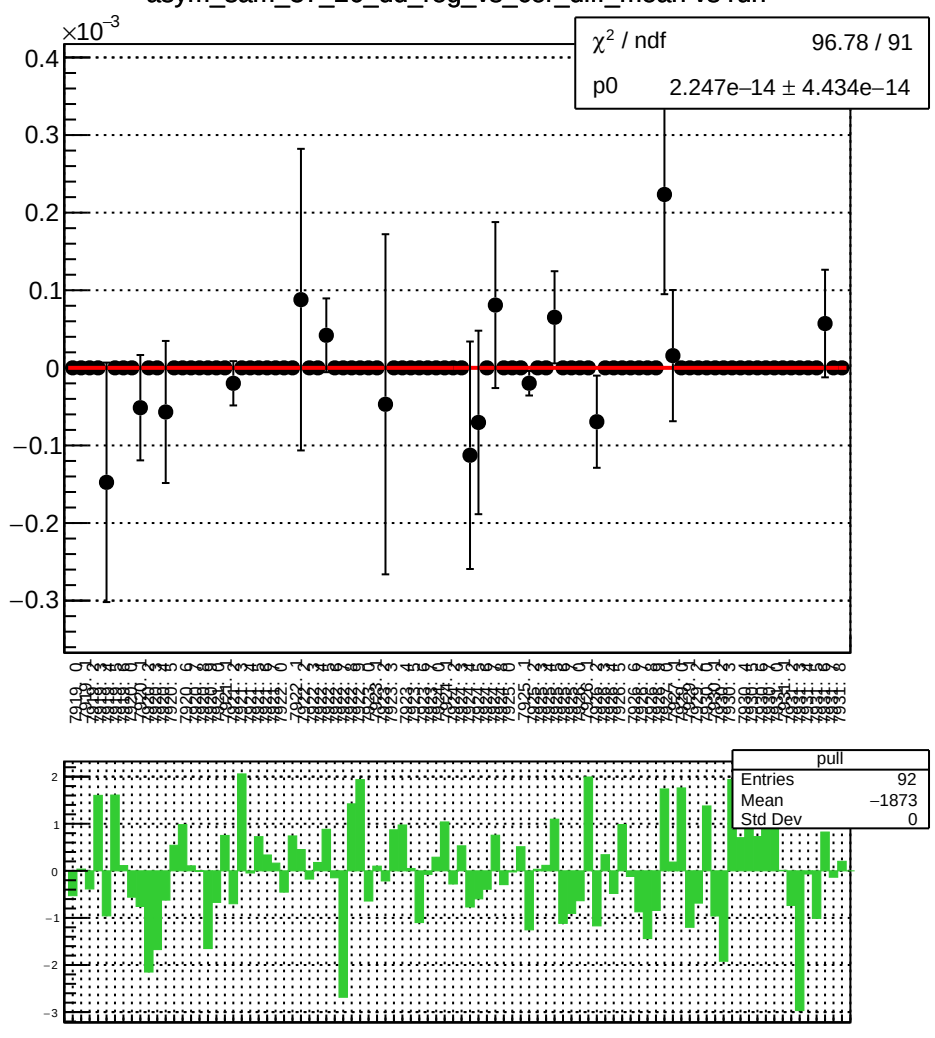

pull1D
Entries 92
Mean 0.004587
Std Dev 1.07

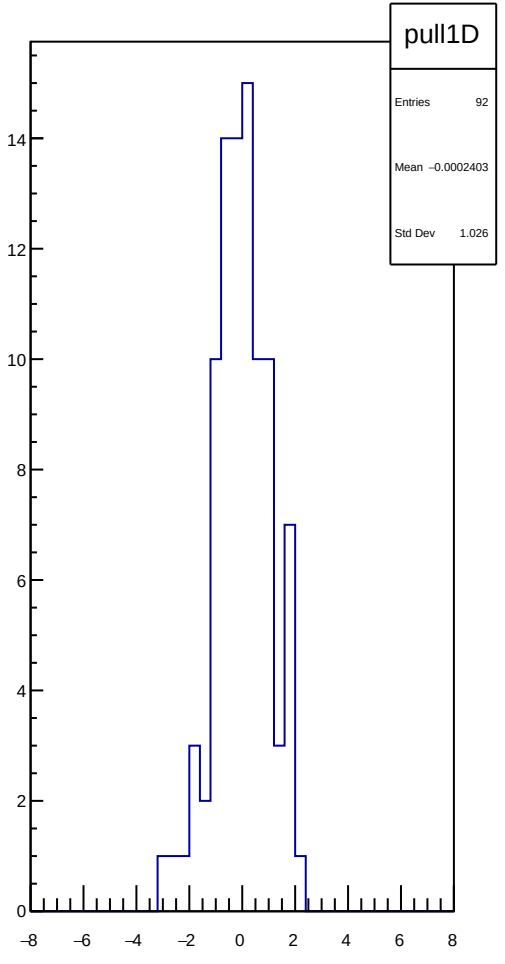

asym_sam_37_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 1560 / 91
p0 210.1 ± 0.1575
240
230
220
210
200

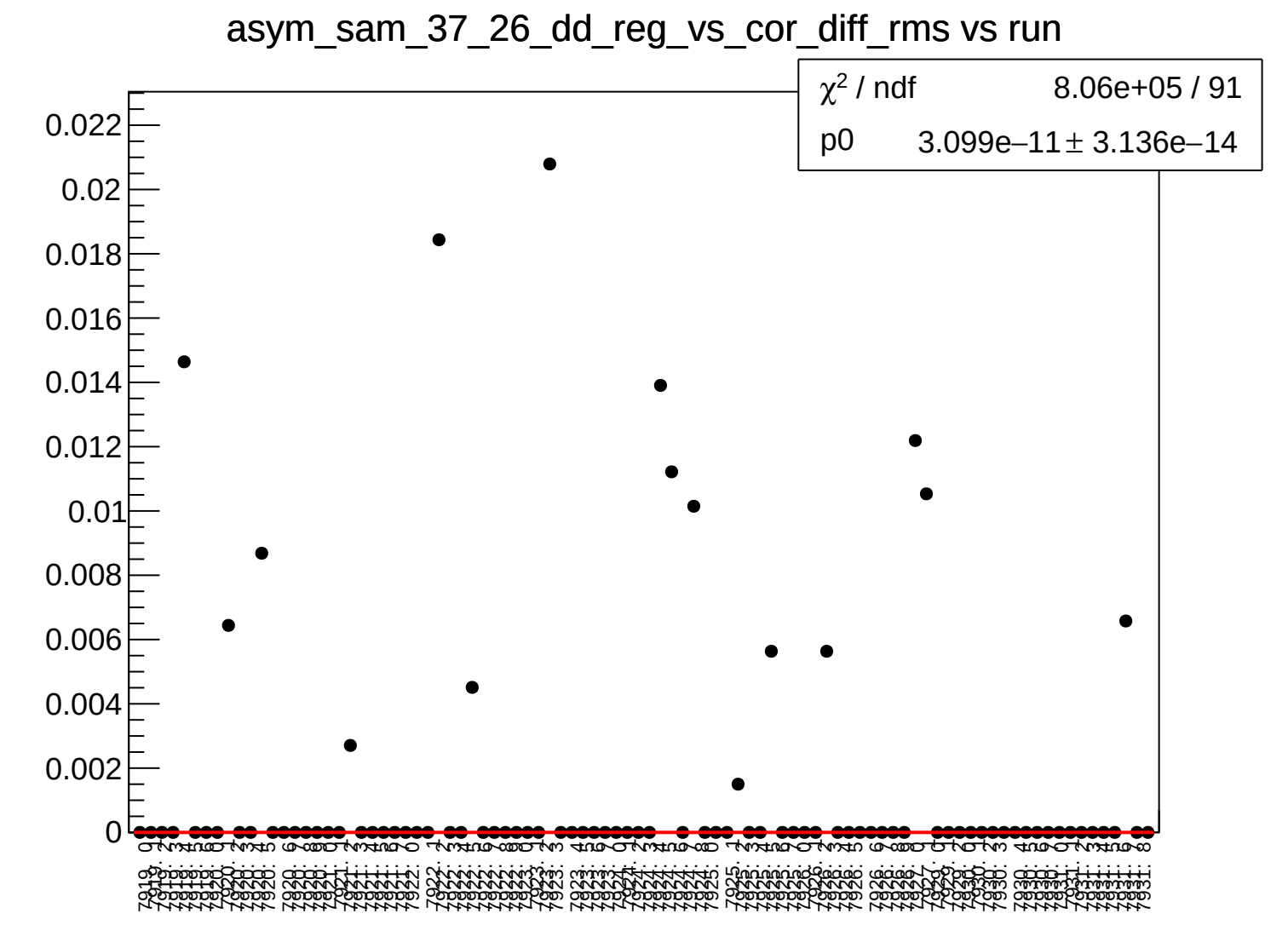

asym_sam_37_26_dd_mean vs run
χ² / ndf 104.2 / 91
p0 438.1 ± 247.6
pull
Entries 92
Mean 2536
Std Dev 0

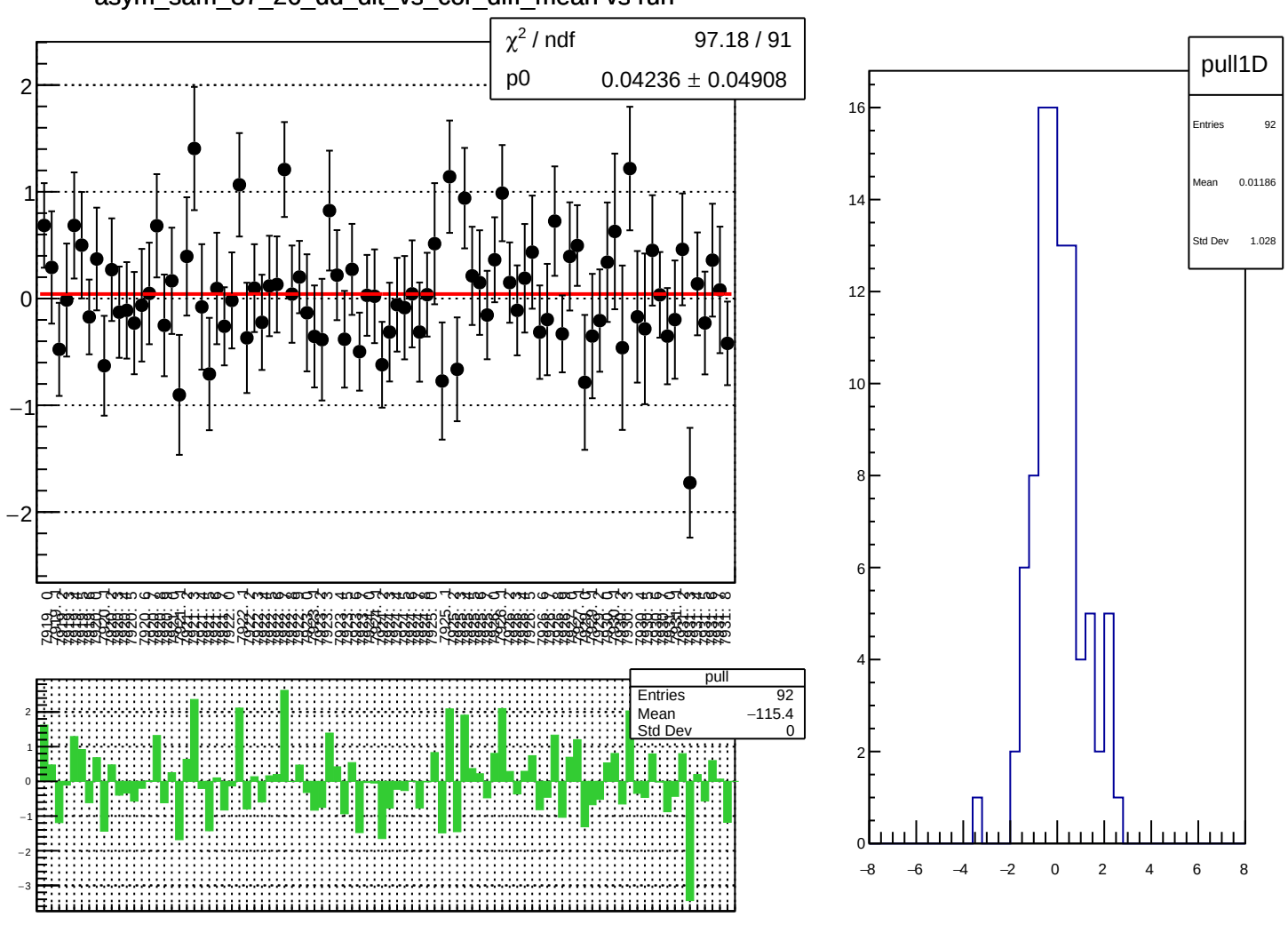

pull1D
Entries 92
Mean −0.001559
Std Dev 1.064

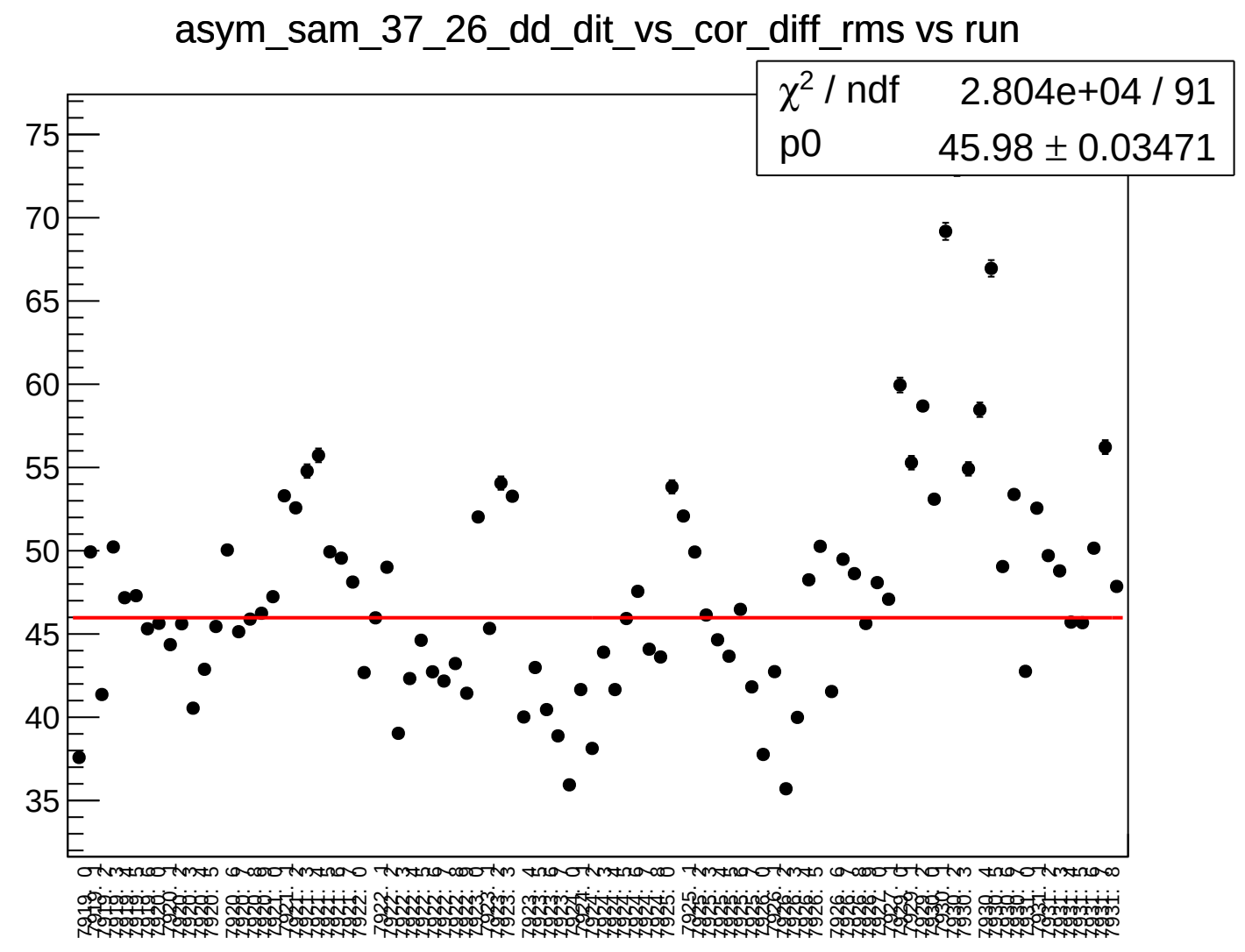

asym_sam_37_26_dd_rms vs run
χ² / ndf 2245 / 91
p0 233.6 ± 0.1751
280
270
260
250
240
230
220
210

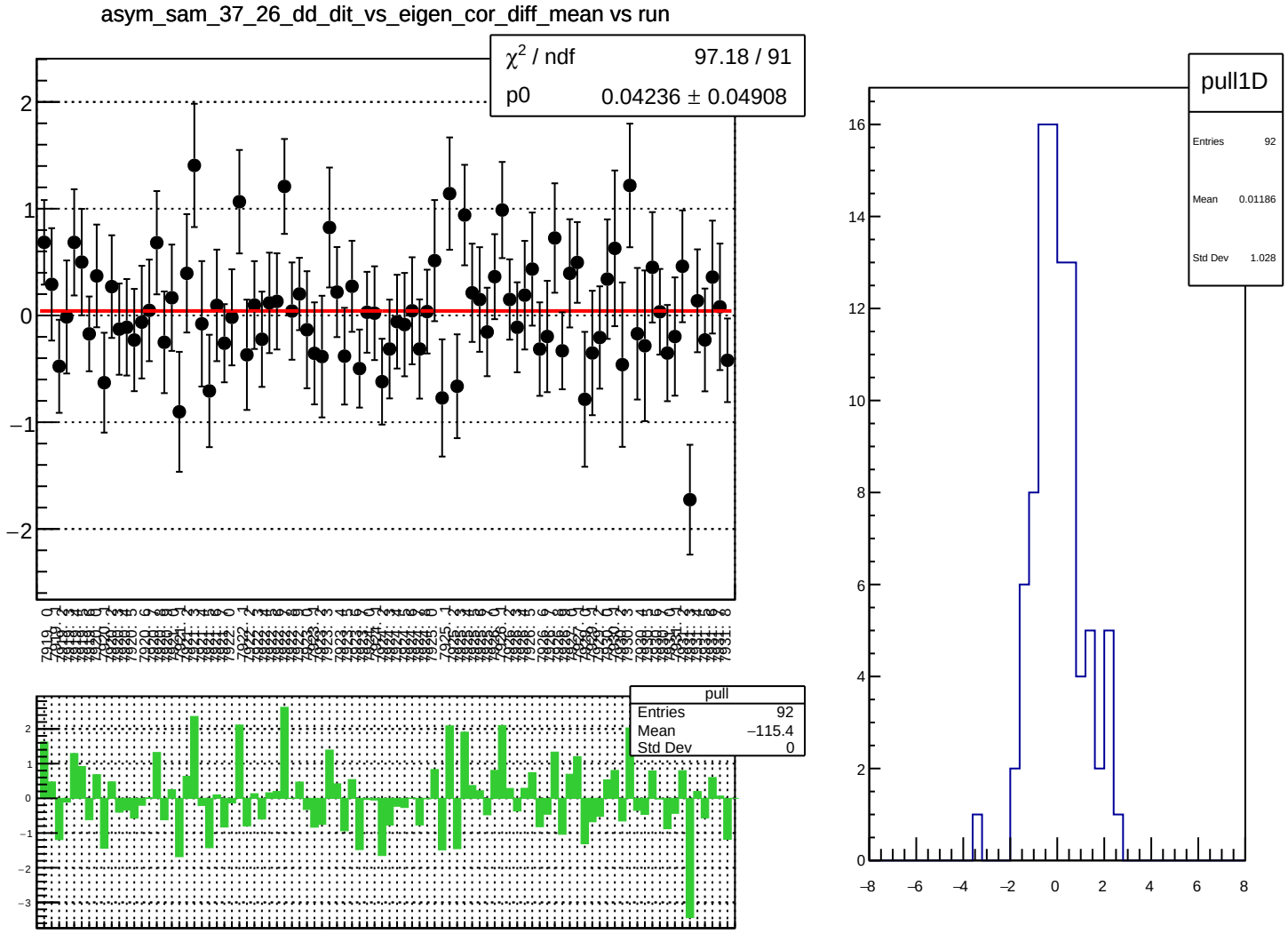

asym_sam_37_26_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 96.78 / 91
p0 2.247e−14 ± 4.434e−14
pull
Entries 92
Mean −1873
Std Dev 0

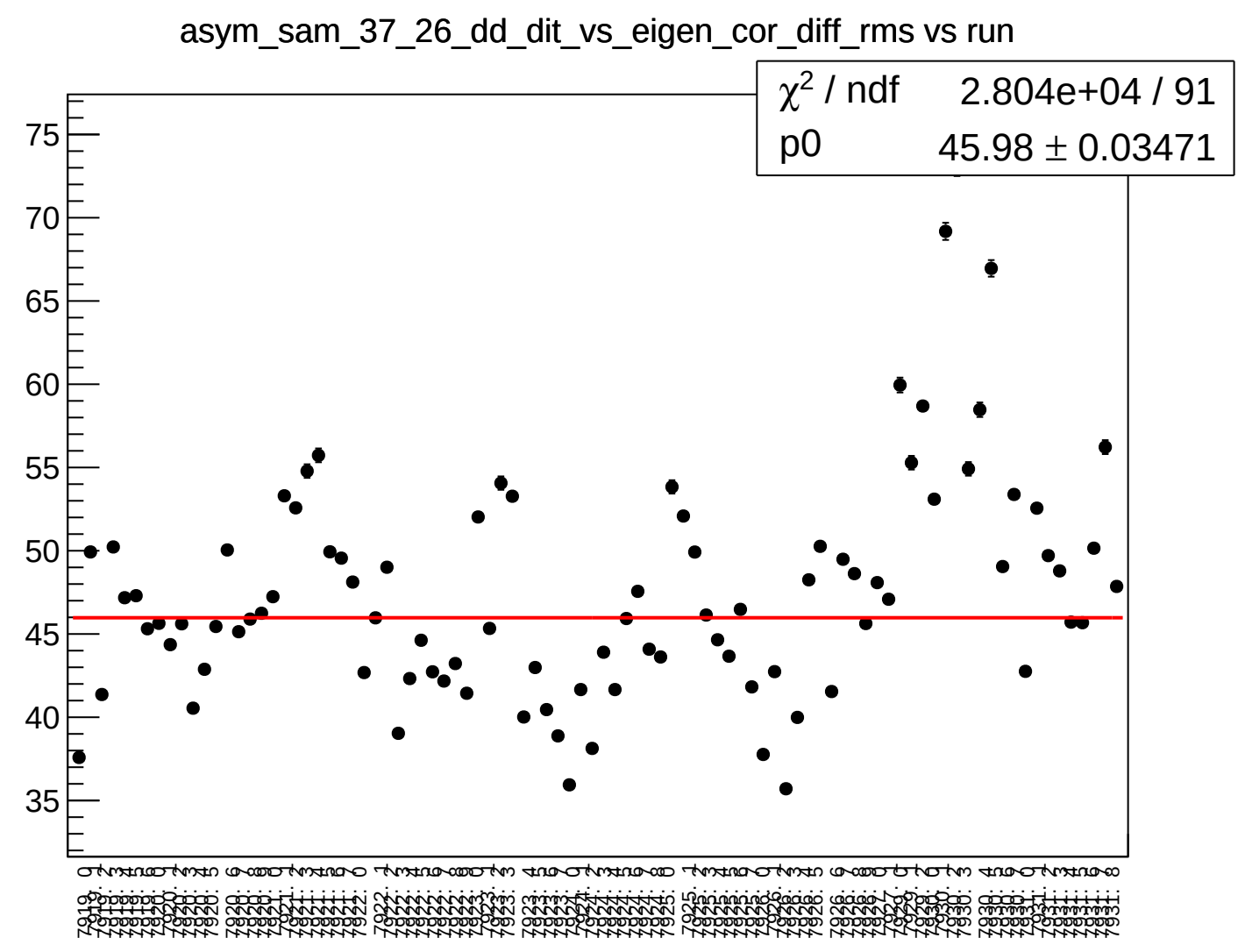

pull1D
Entries 92
Mean −0.0002403
Std Dev 1.026

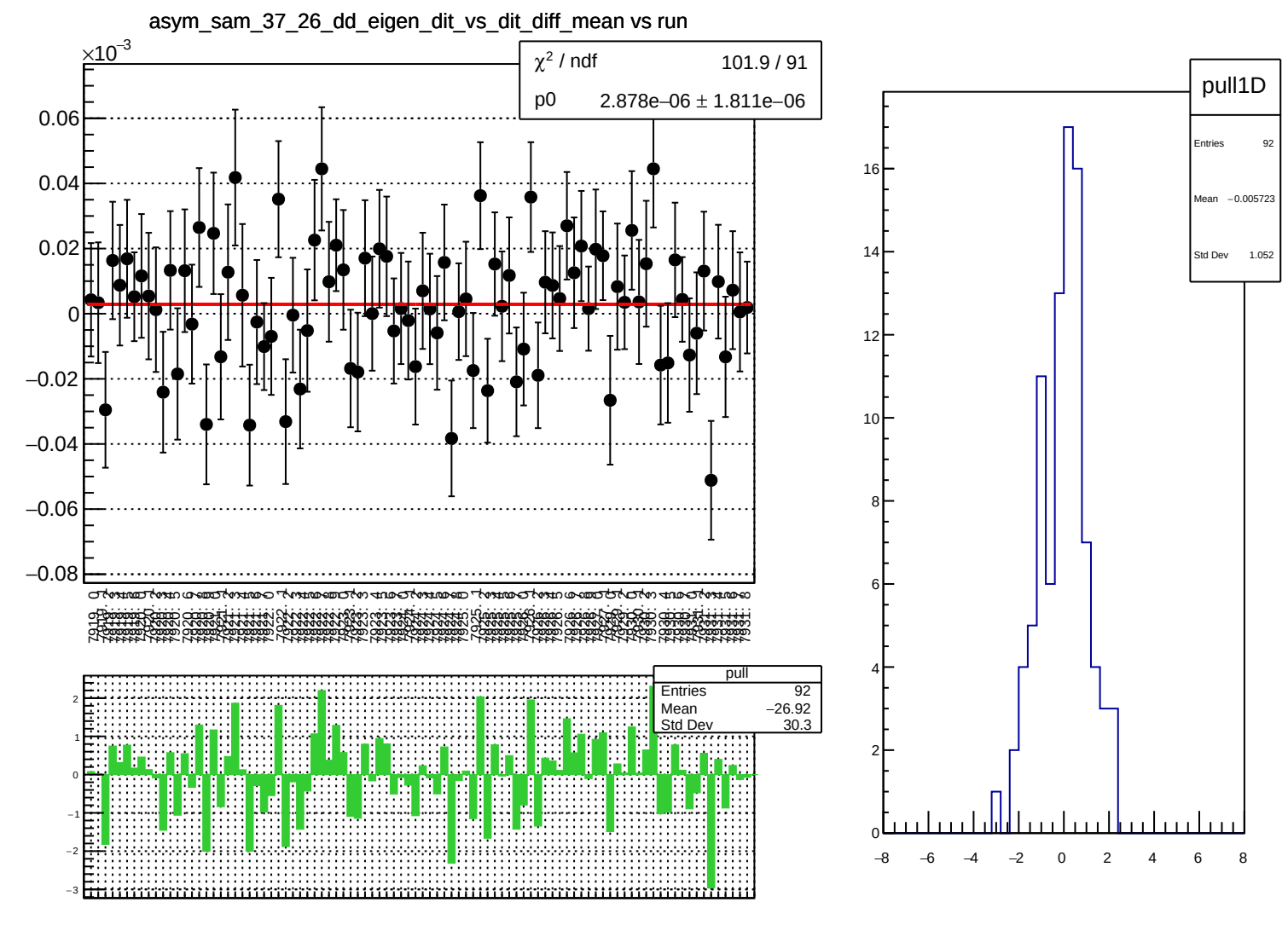

asym_sam_37_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.06e+05 / 91
p0 3.099e−11 ± 3.136e−14
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0

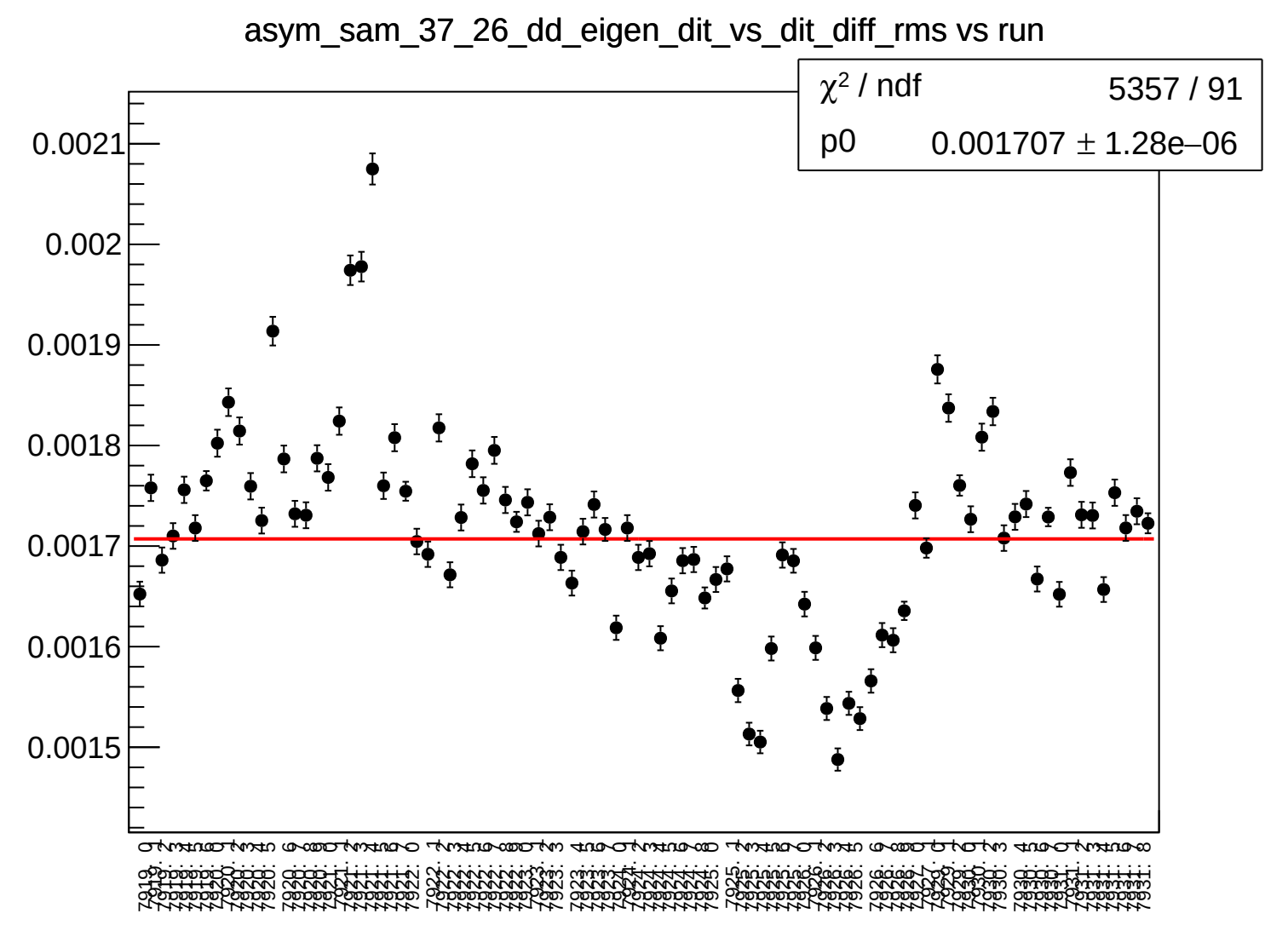

asym_sam_37_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 97.18 / 91
p0 0.04236 ± 0.04908
pull
Entries 92
Mean −115.4
Std Dev 0
pull1D
Entries 92
Mean 0.01186
Std Dev 1.028

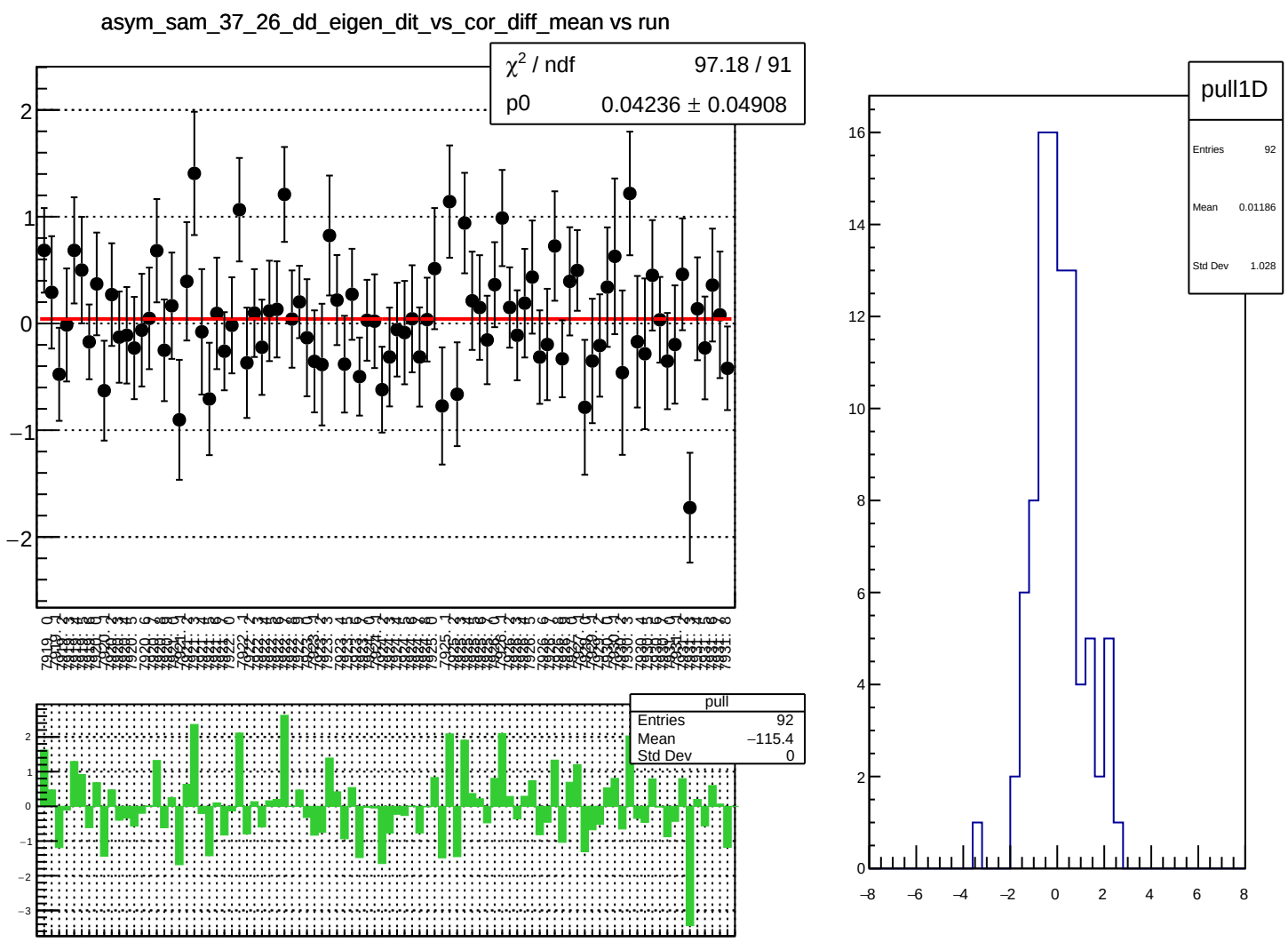

asym_sam_37_26_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.804e+04 / 91
p0 45.98 ± 0.03471
75
70
65
60
55
50
45
40
35

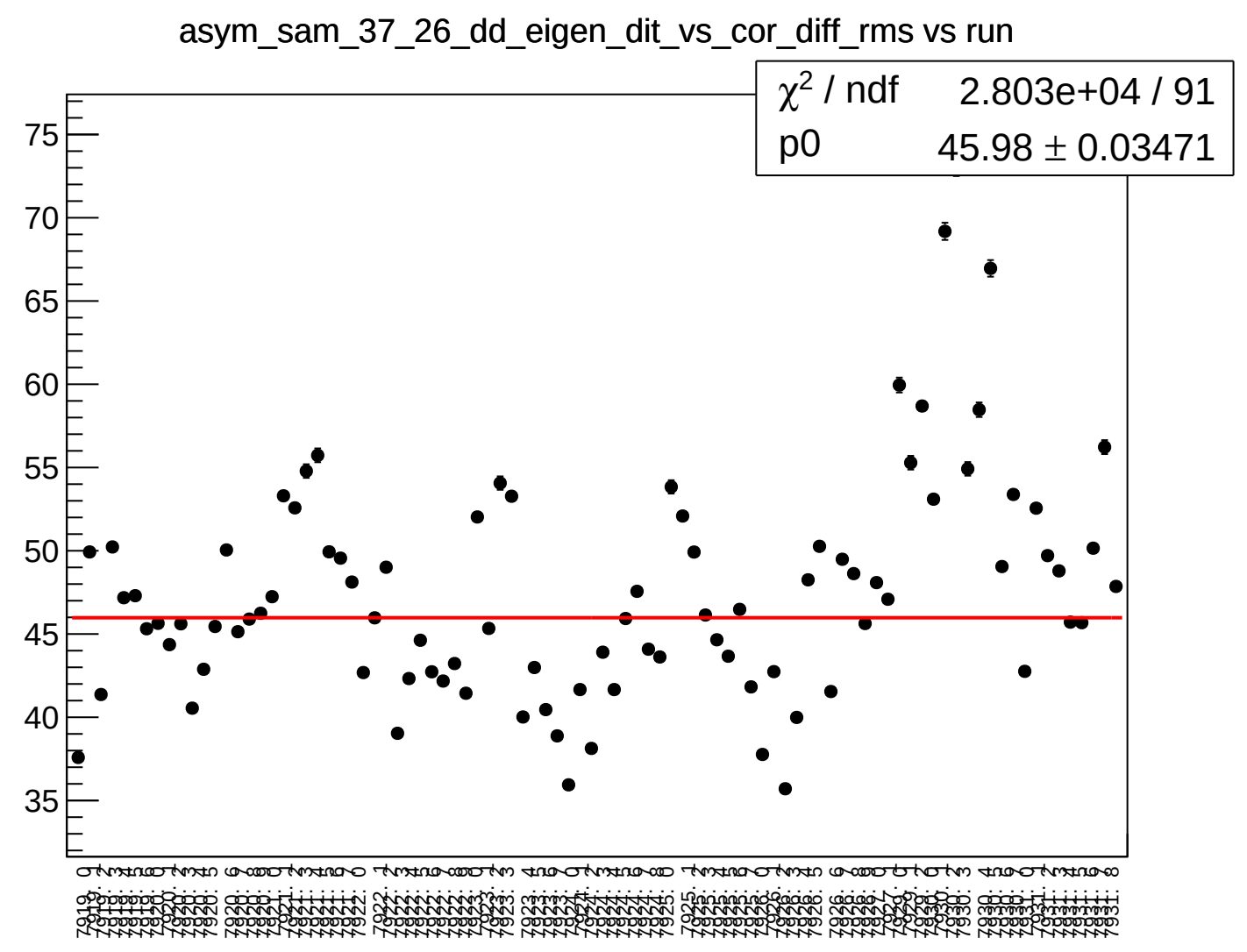

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.18 / 91
p0 0.04236 ± 0.04908
pull
Entries 92
Mean −115.4
Std Dev 0
pull1D
Entries 92
Mean 0.01186
Std Dev 1.028

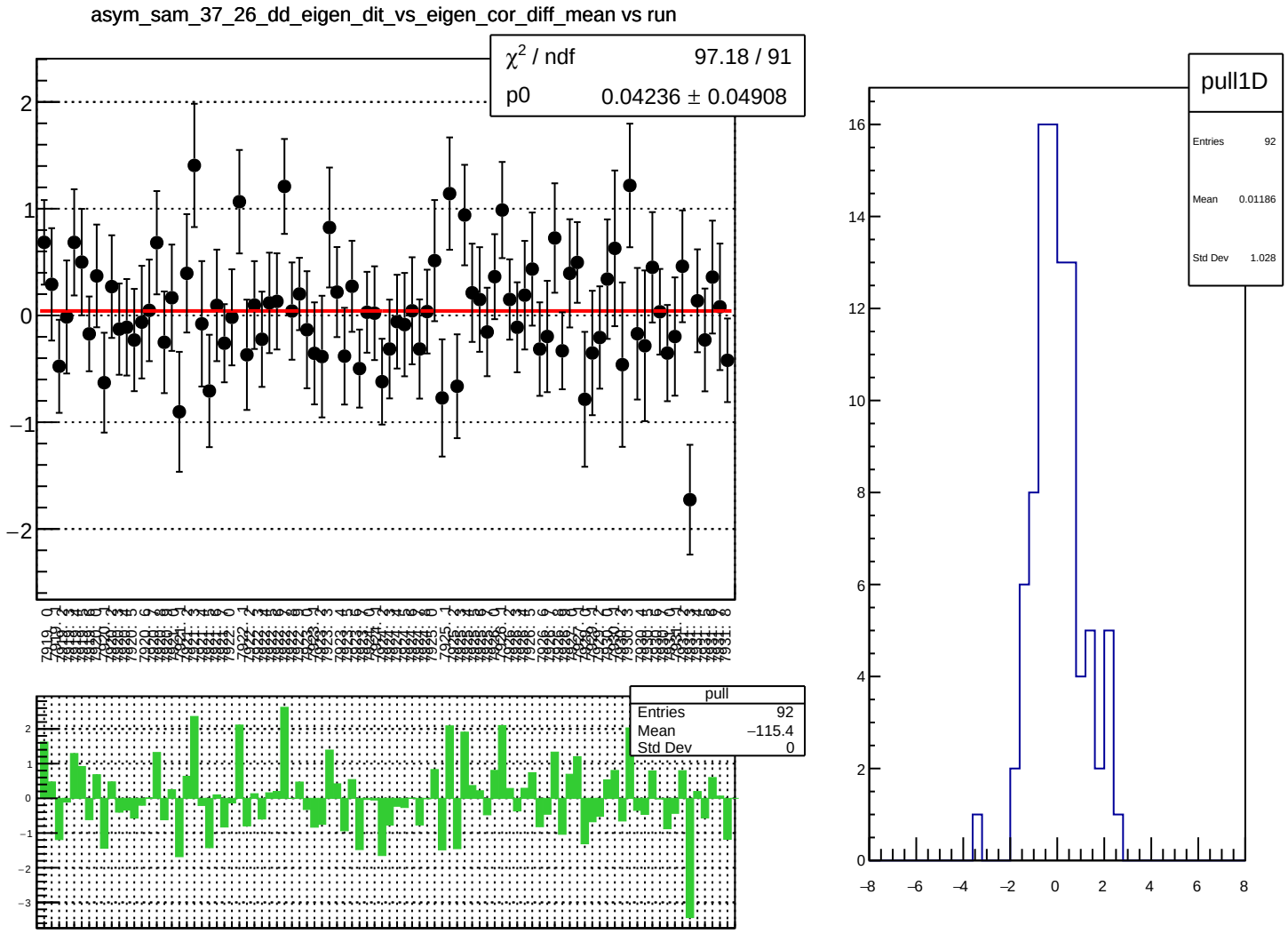

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.804e+04 / 91
p0 45.98 ± 0.03471
75
70
65
60
55
50
45
40
35

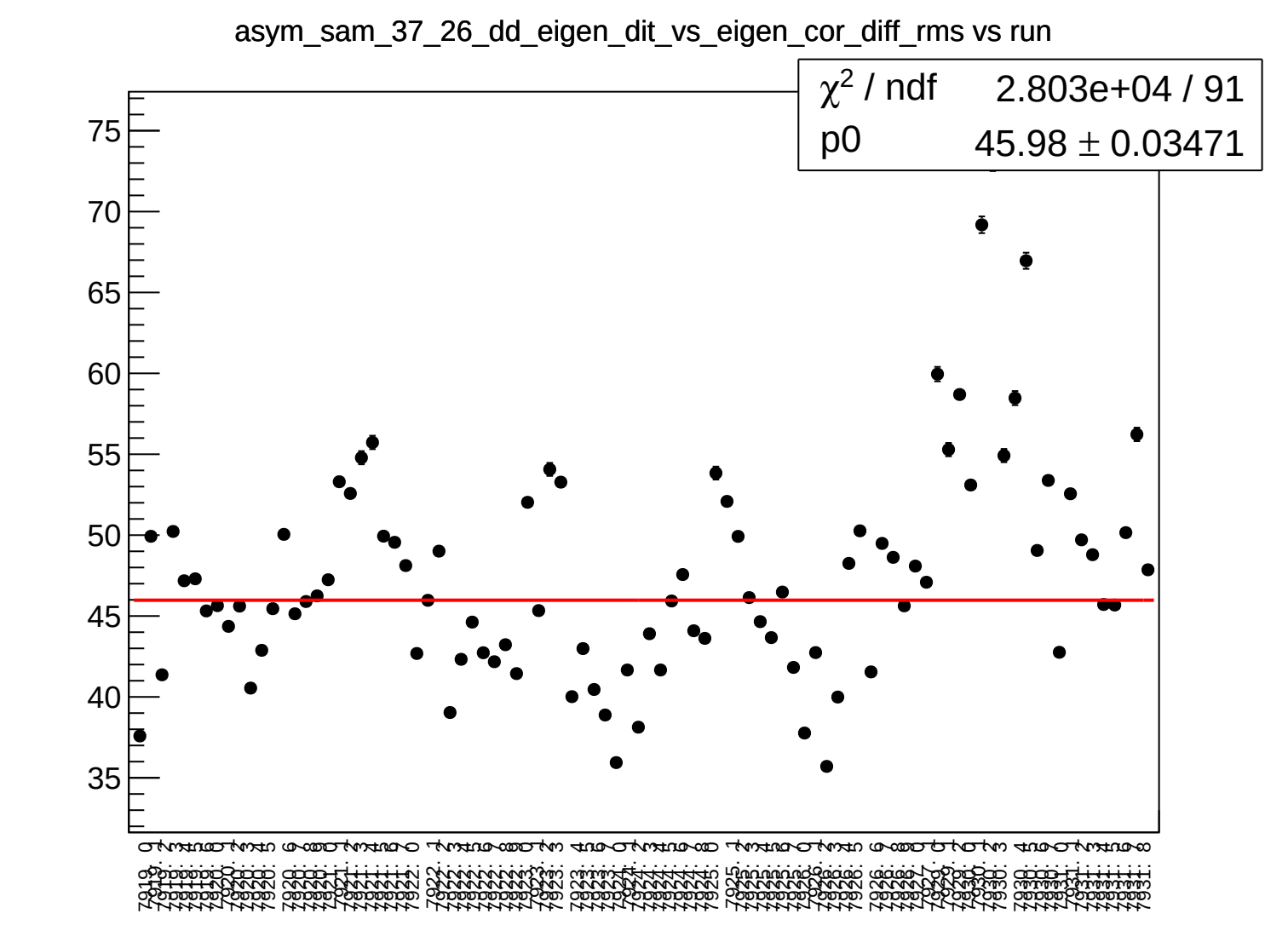

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 101.9 / 91
p0 2.878e−06 ± 1.811e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 92
Mean −26.92
Std Dev 30.3
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.005723
Std Dev 1.052
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

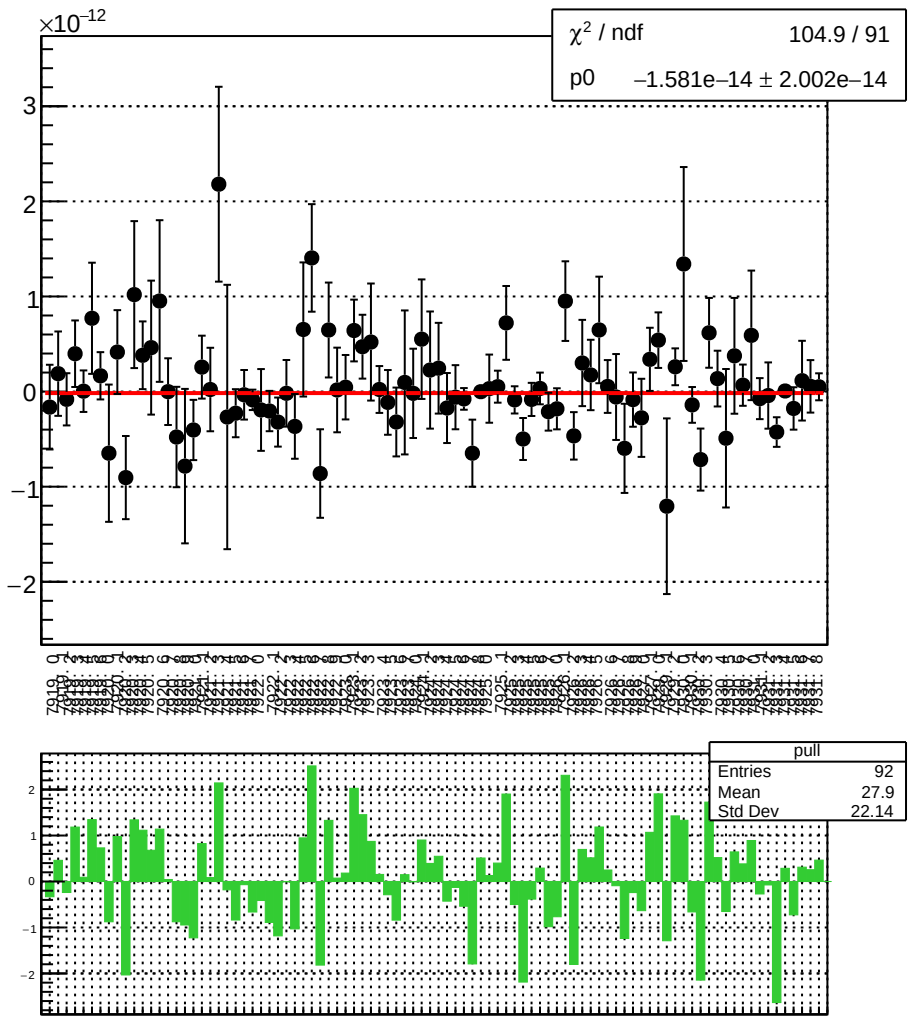

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5357 / 91
p0 0.001707 ± 1.28e–06
0.0021
0.002
0.0019
0.0018
0.0017
0.0016
0.0015

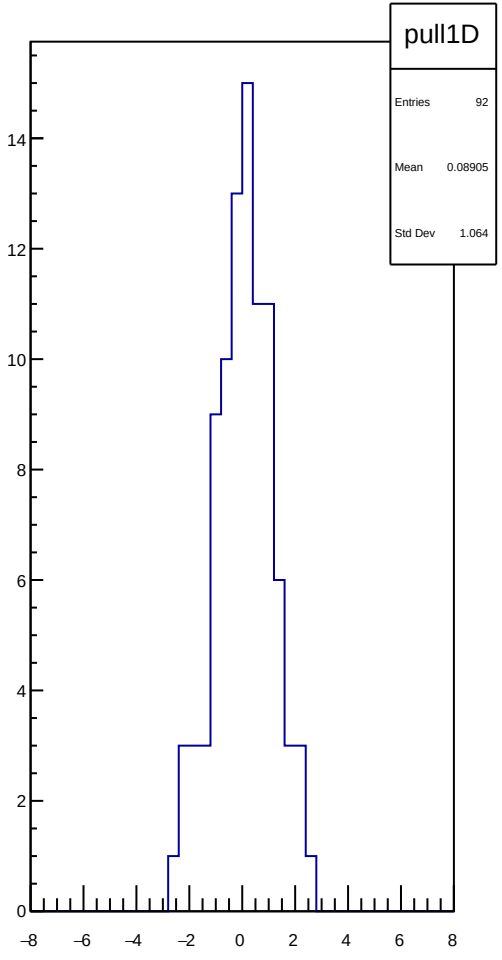

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 97.18 / 91
p0 0.04236 ± 0.04908
pull
Entries 92
Mean −115.4
Std Dev 0
pull1D
Entries 92
Mean 0.01186
Std Dev 1.028

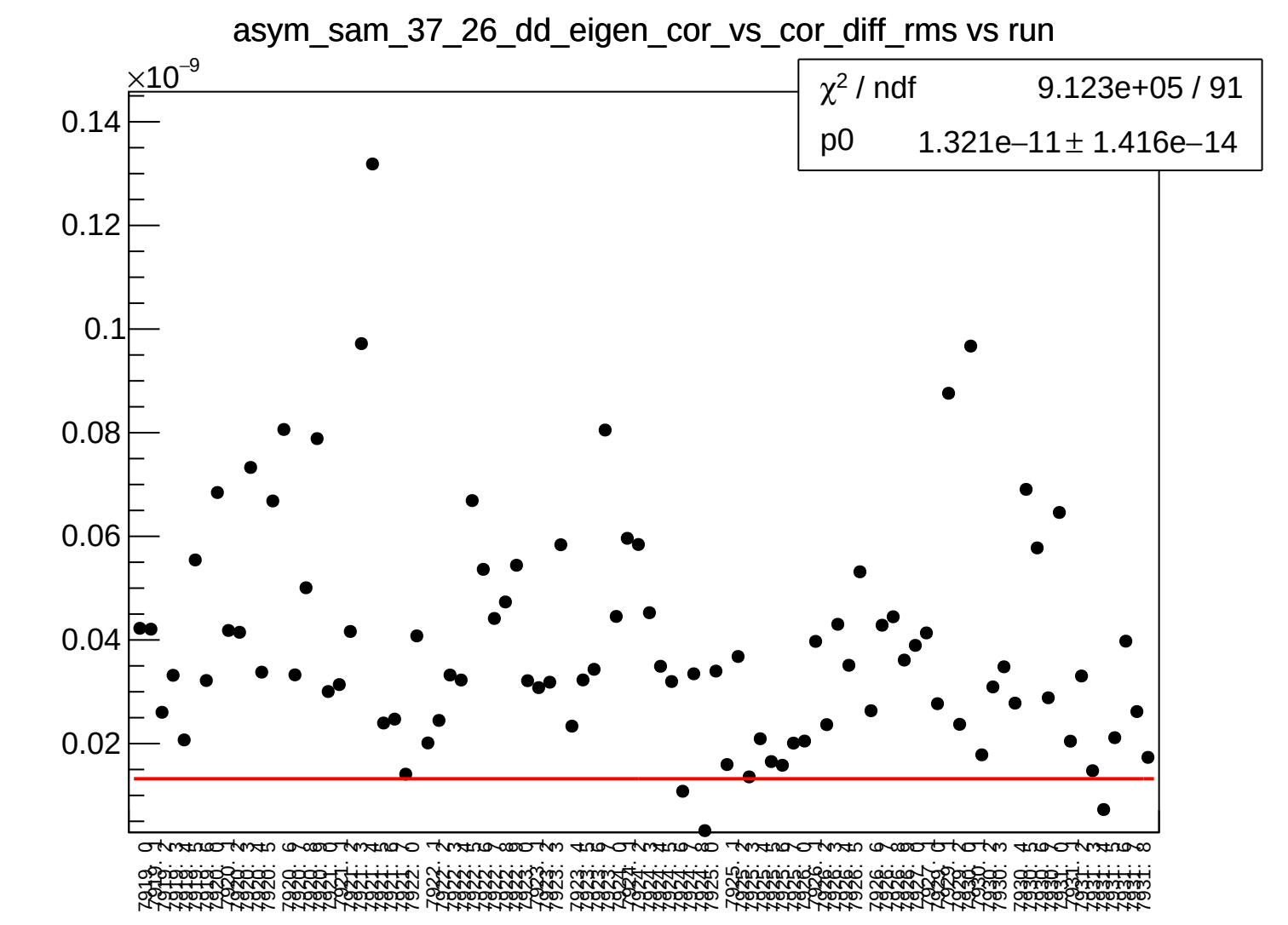

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.803e+04 / 91
p0 45.98 ± 0.03471
75
70
65
60
55
50
45
40
35

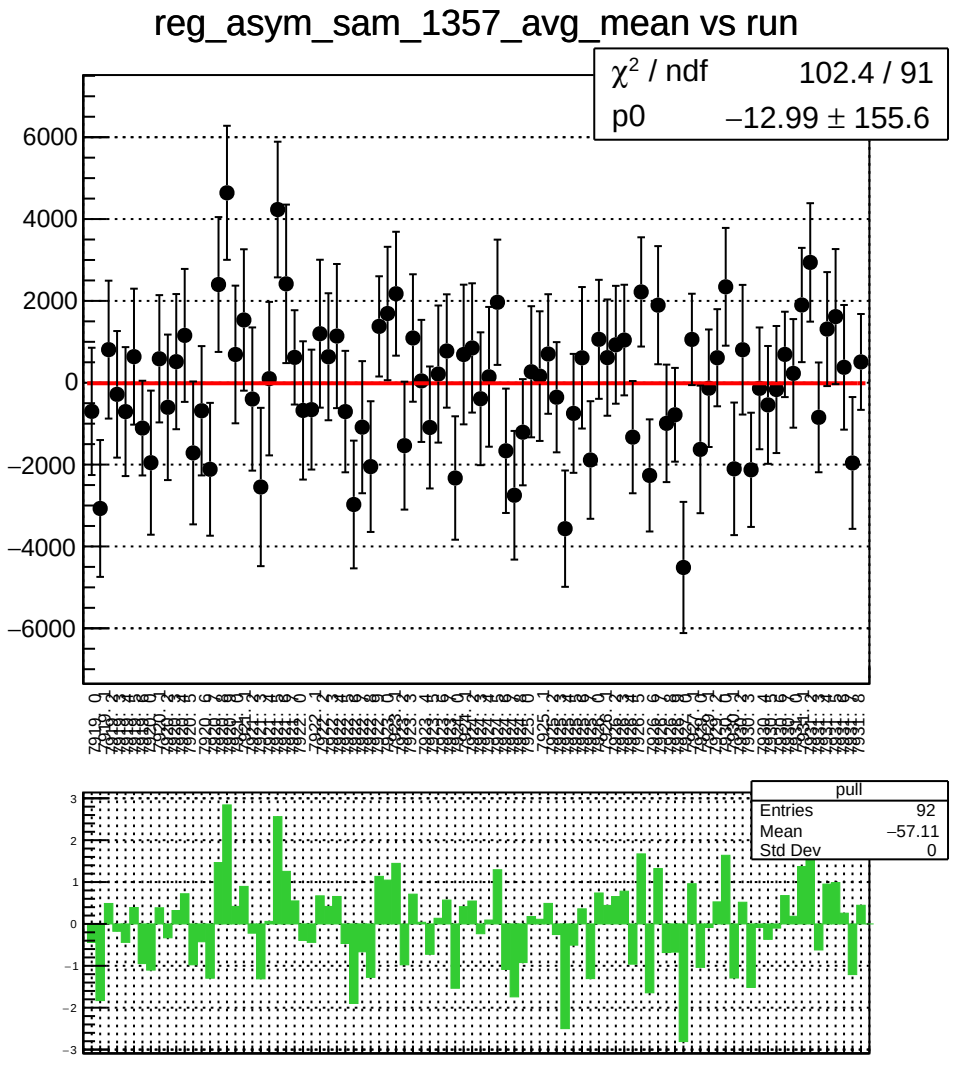

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.18 / 91
p0 0.04236 ± 0.04908
pull
Entries 92
Mean −115.4
Std Dev 0
pull1D
Entries 92
Mean 0.01186
Std Dev 1.028

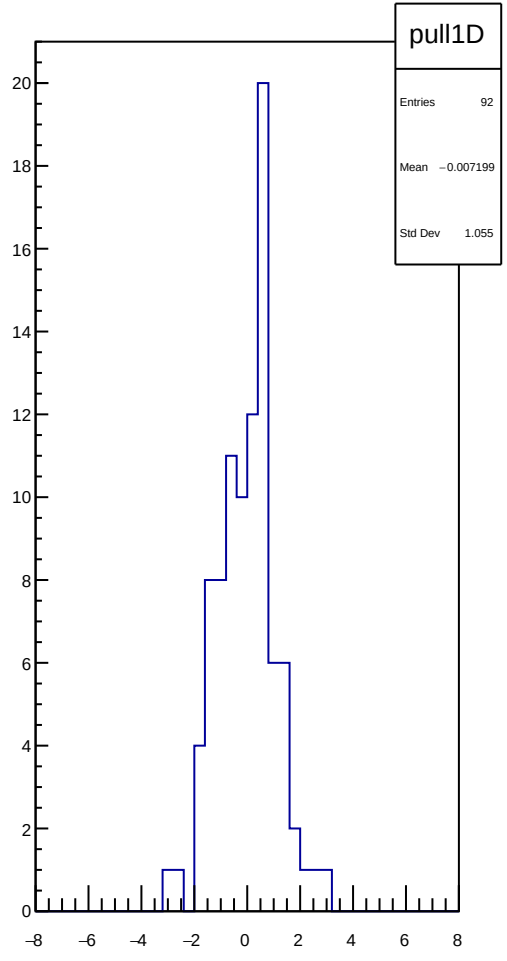

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.803e+04 / 91
p0 45.98 ± 0.03471
75
70
65
60
55
50
45
40
35

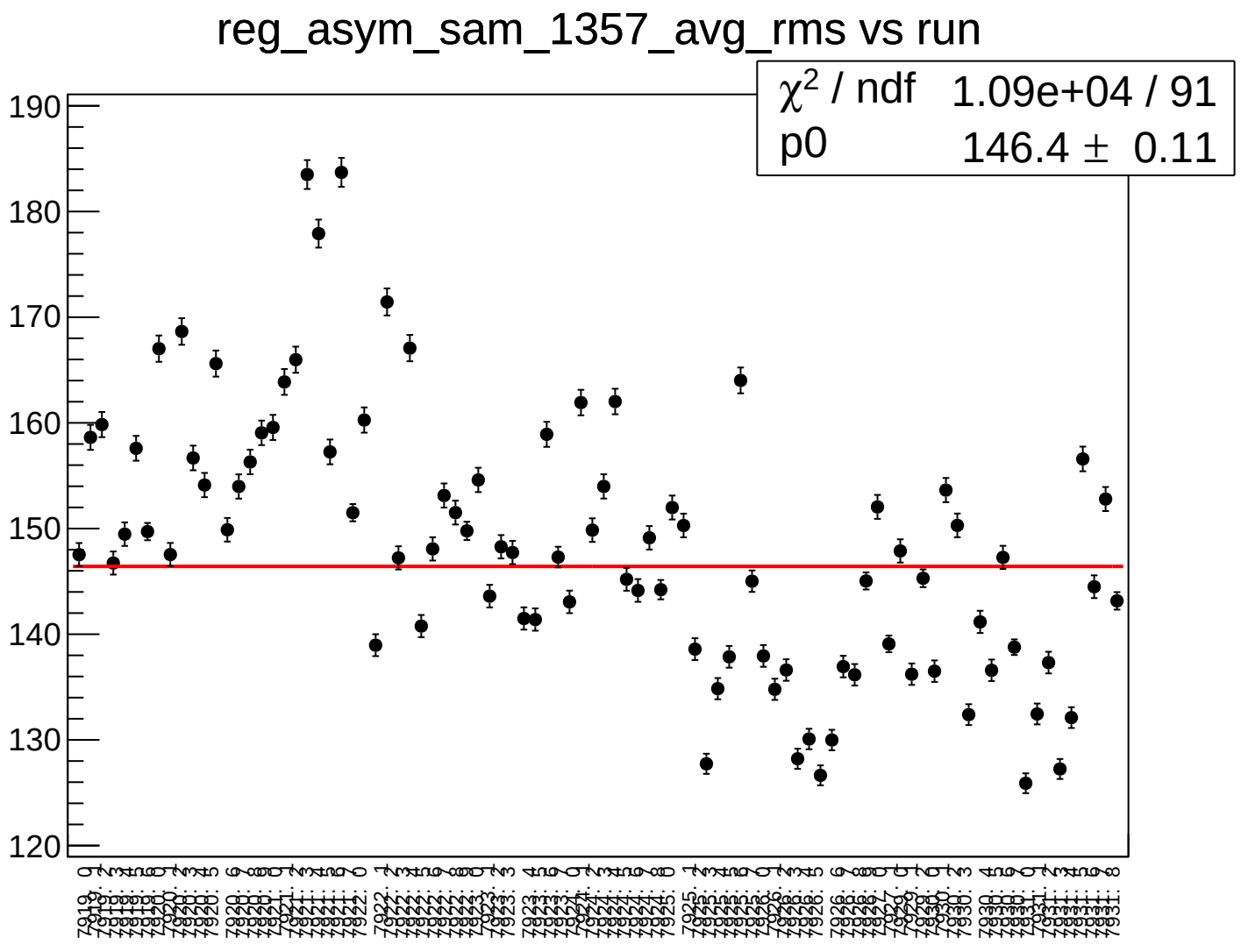

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 104.9 / 91
p0 −1.581e−14 ± 2.002e−14
pull
Entries 92
Mean 27.9
Std Dev 22.14

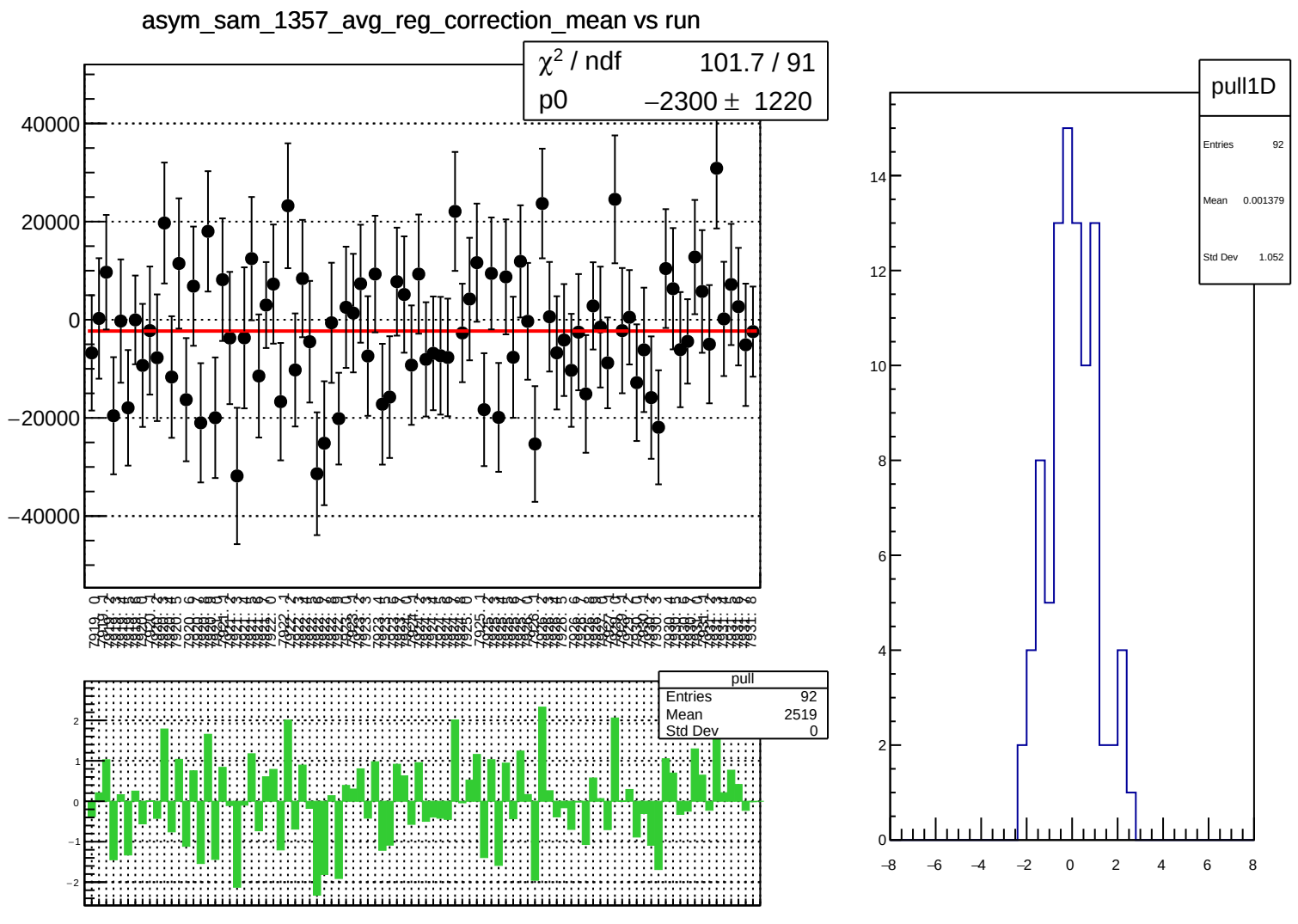

pull1D
Entries 92
Mean 0.08905
Std Dev 1.064

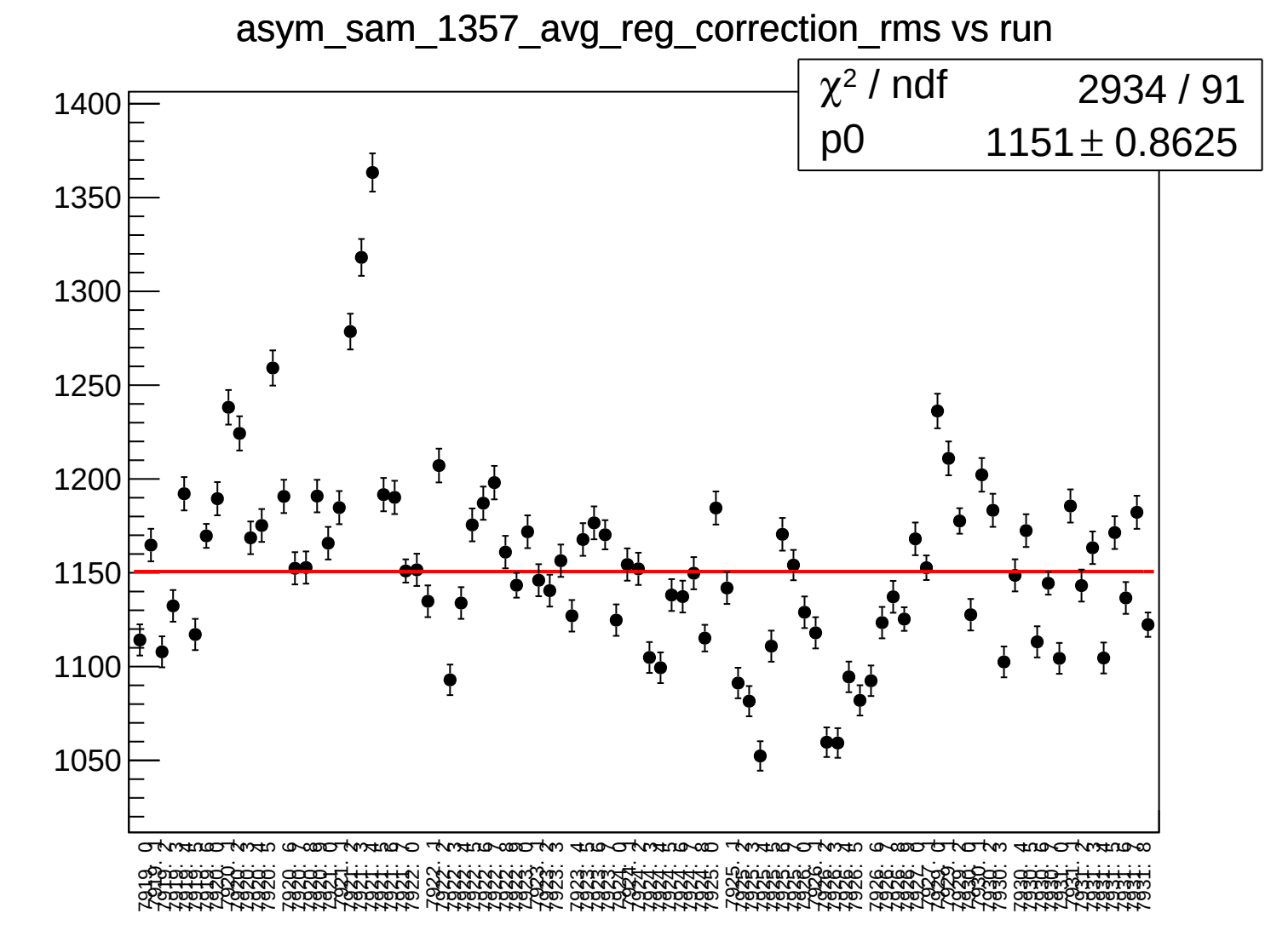

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.123e+05 / 91
p0 1.321e−11 ± 1.416e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

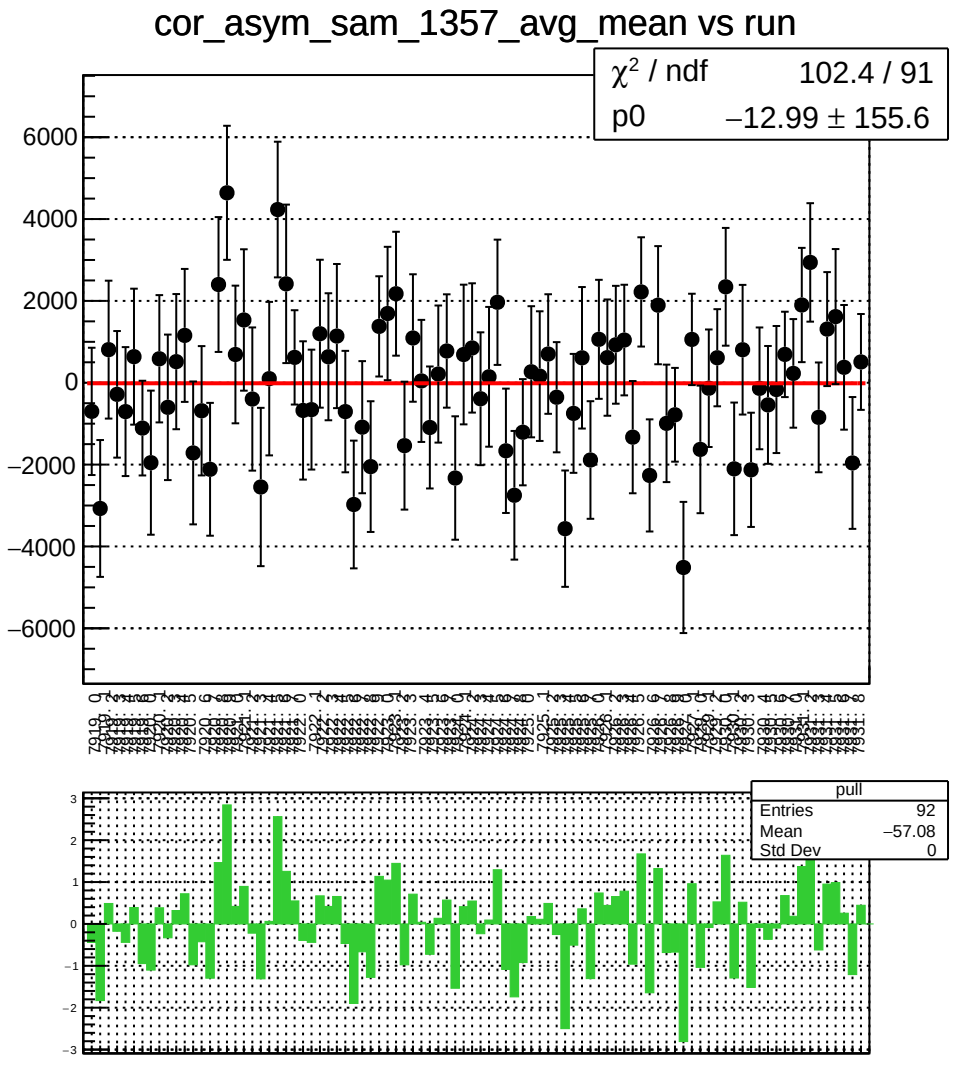

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 102.4 / 91
p0 −12.99 ± 155.6
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 92
Mean −57.11
Std Dev 0
3
2
1
0
−1
−2
−3

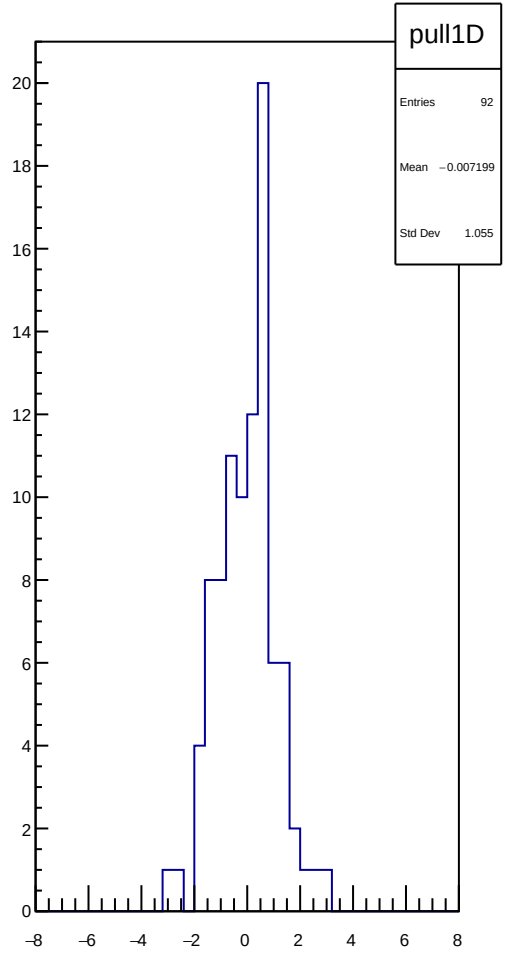

pull1D
Entries 92
Mean −0.007199
Std Dev 1.055
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

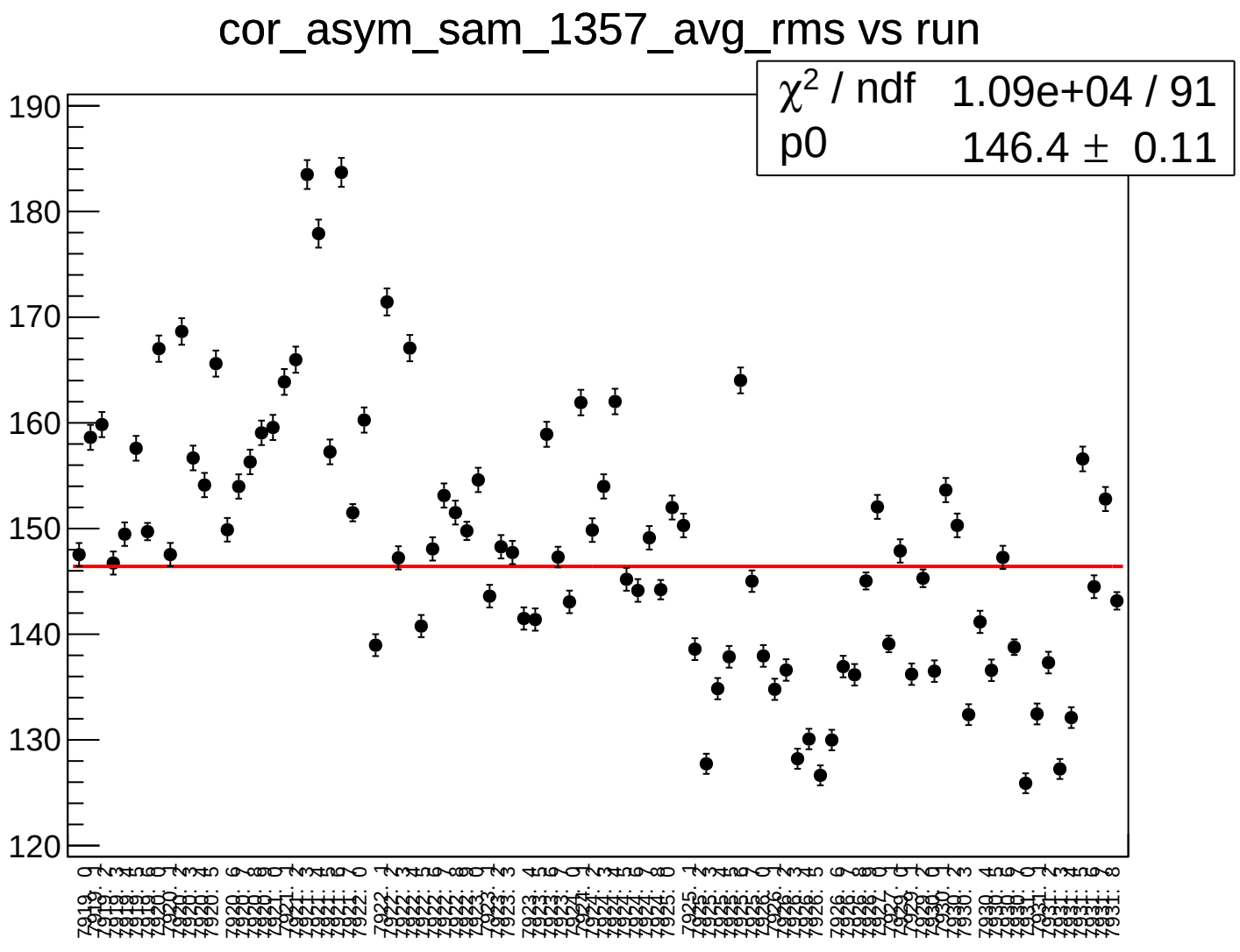

reg_asym_sam_1357_avg_rms vs run
χ² / ndf 1.09e+04 / 91
p0 146.4 ± 0.11
190
180
170
160
150
140
130
120

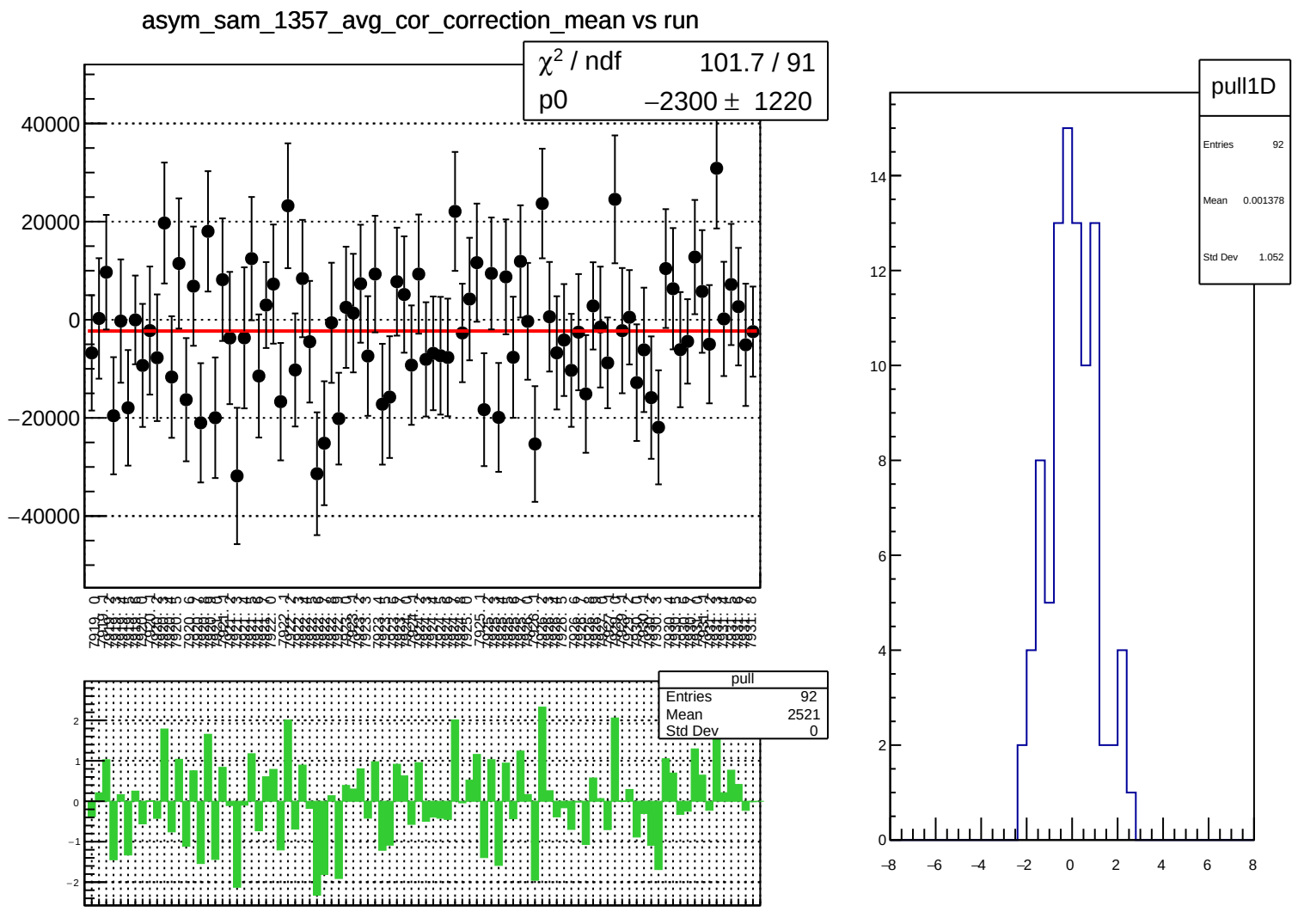

asym_sam_1357_avg_reg_correction_mean vs run
χ² / ndf 101.7 / 91
p0 −2300 ± 1220
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 2519
Std Dev 0
pull1D
Entries 92
Mean 0.001379
Std Dev 1.052

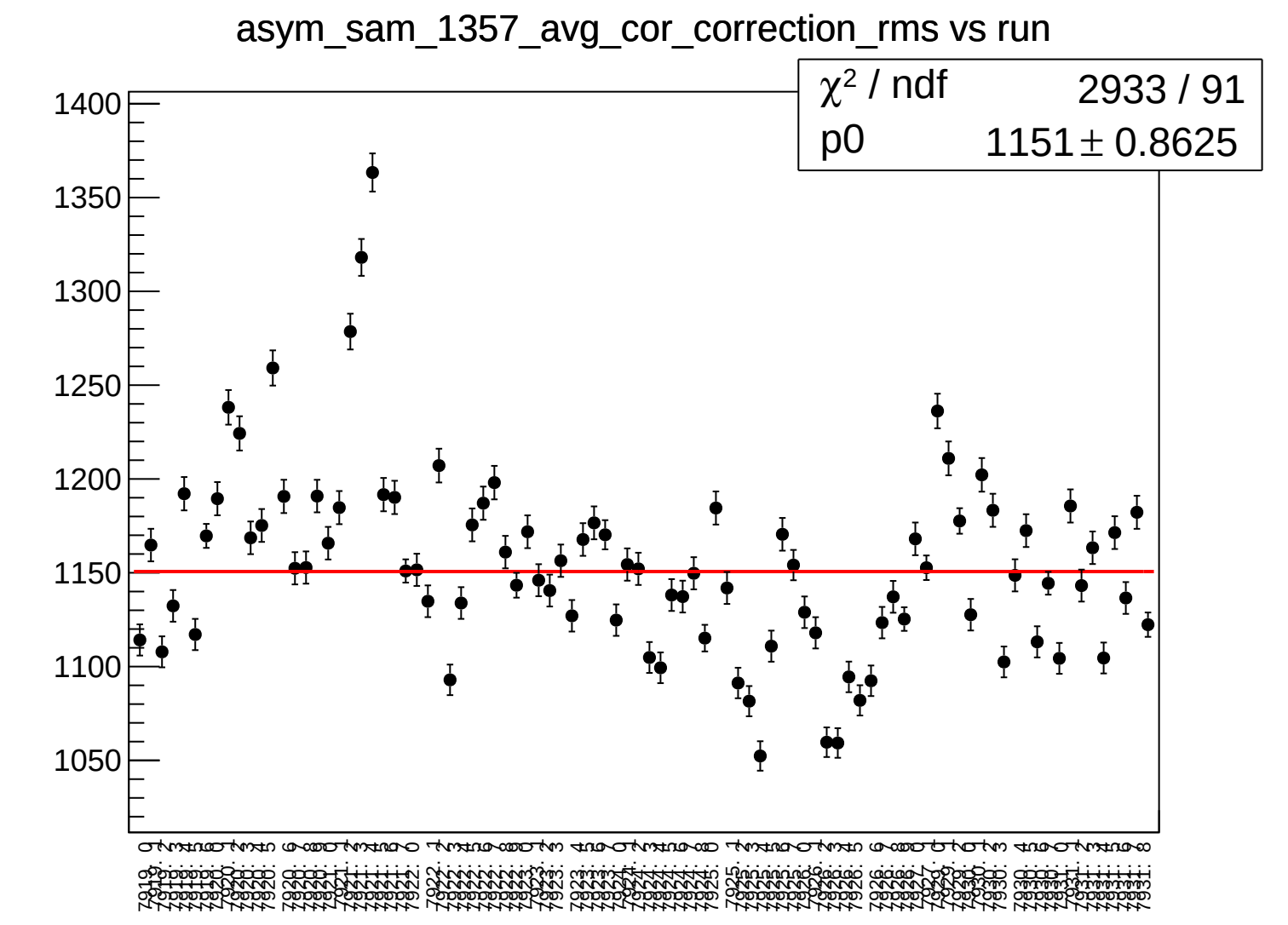

asym_sam_1357_avg_reg_correction_rms vs run
χ² / ndf 2934 / 91
p0 1151 ± 0.8625
1400
1350
1300
1250
1200
1150
1100
1050

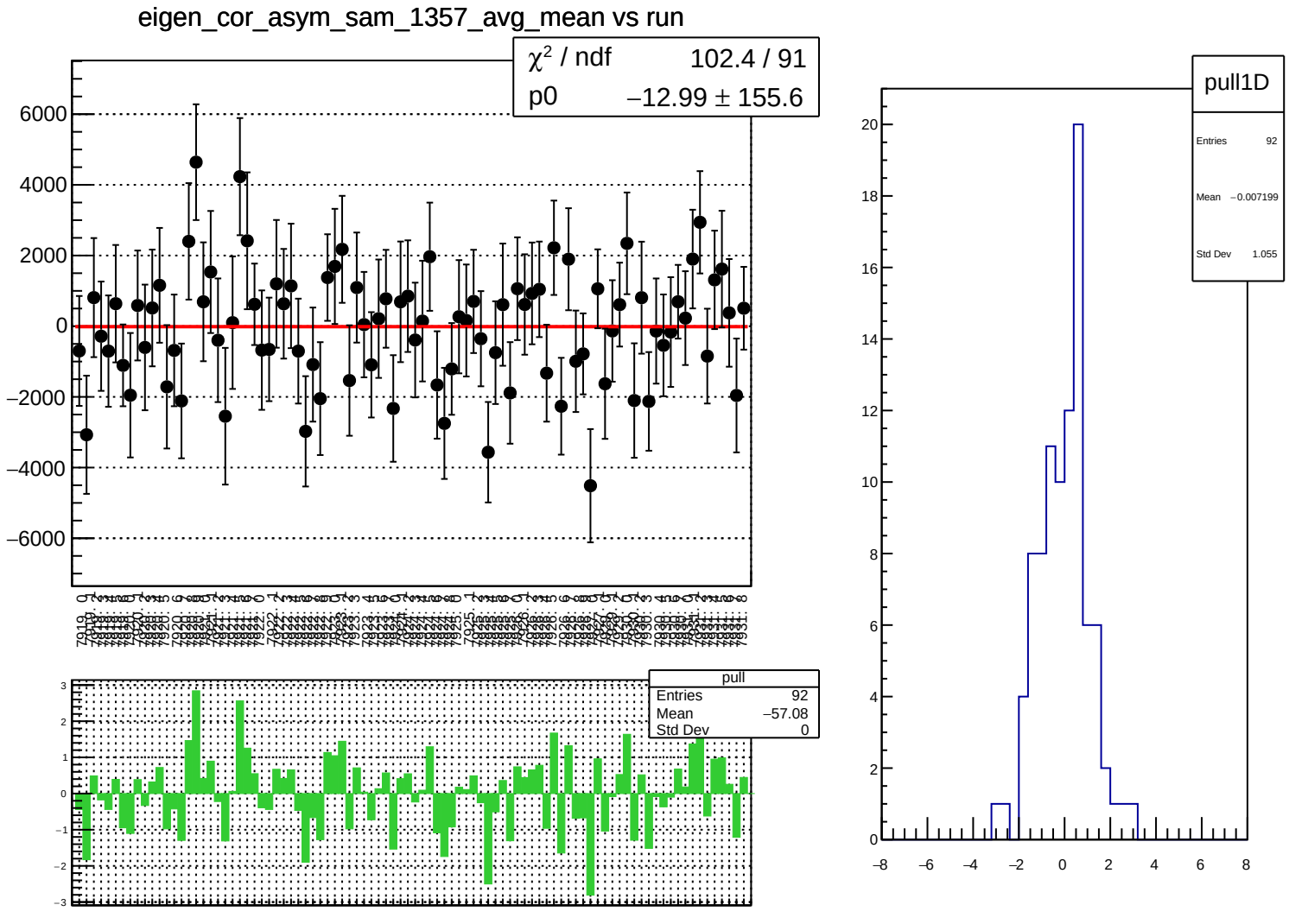

cor_asym_sam_1357_avg_mean vs run
χ² / ndf 102.4 / 91
p0 −12.99 ± 155.6
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 92
Mean −57.08
Std Dev 0
3
2
1
0
−1
−2
−3

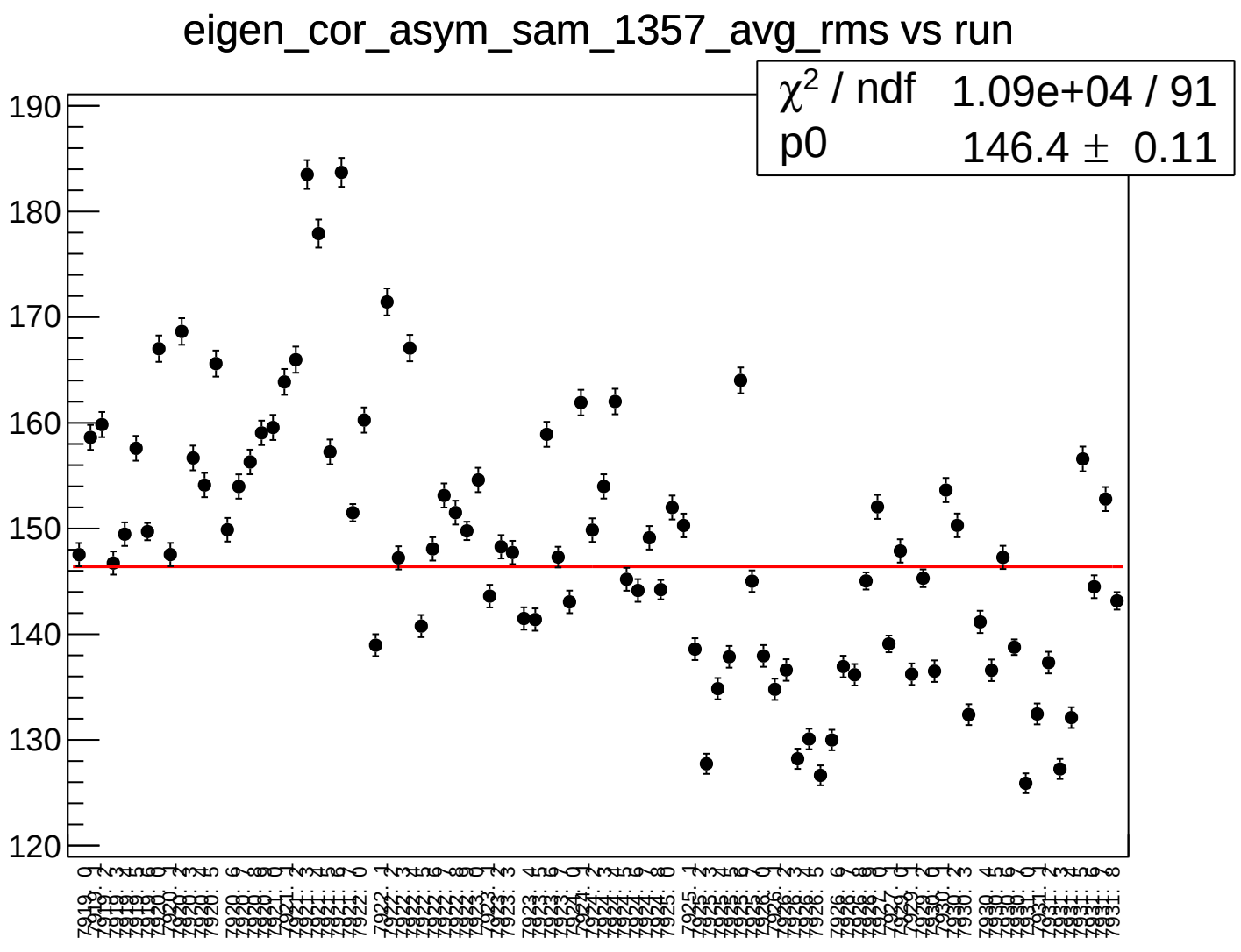

pull1D
Entries 92
Mean −0.007199
Std Dev 1.055
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

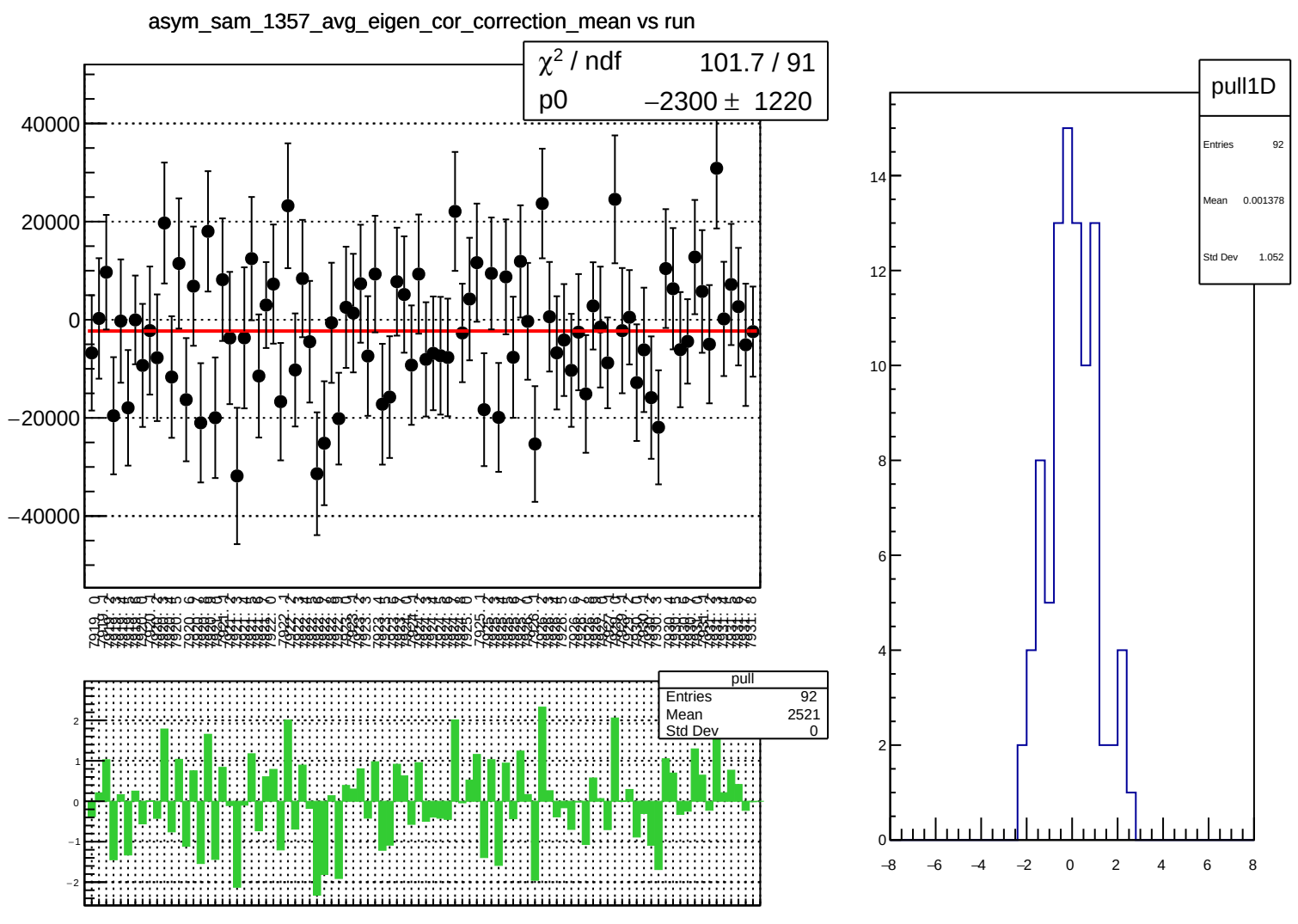

cor_asym_sam_1357_avg_rms vs run
χ² / ndf 1.09e+04 / 91
p0 146.4 ± 0.11
190
180
170
160
150
140
130
120

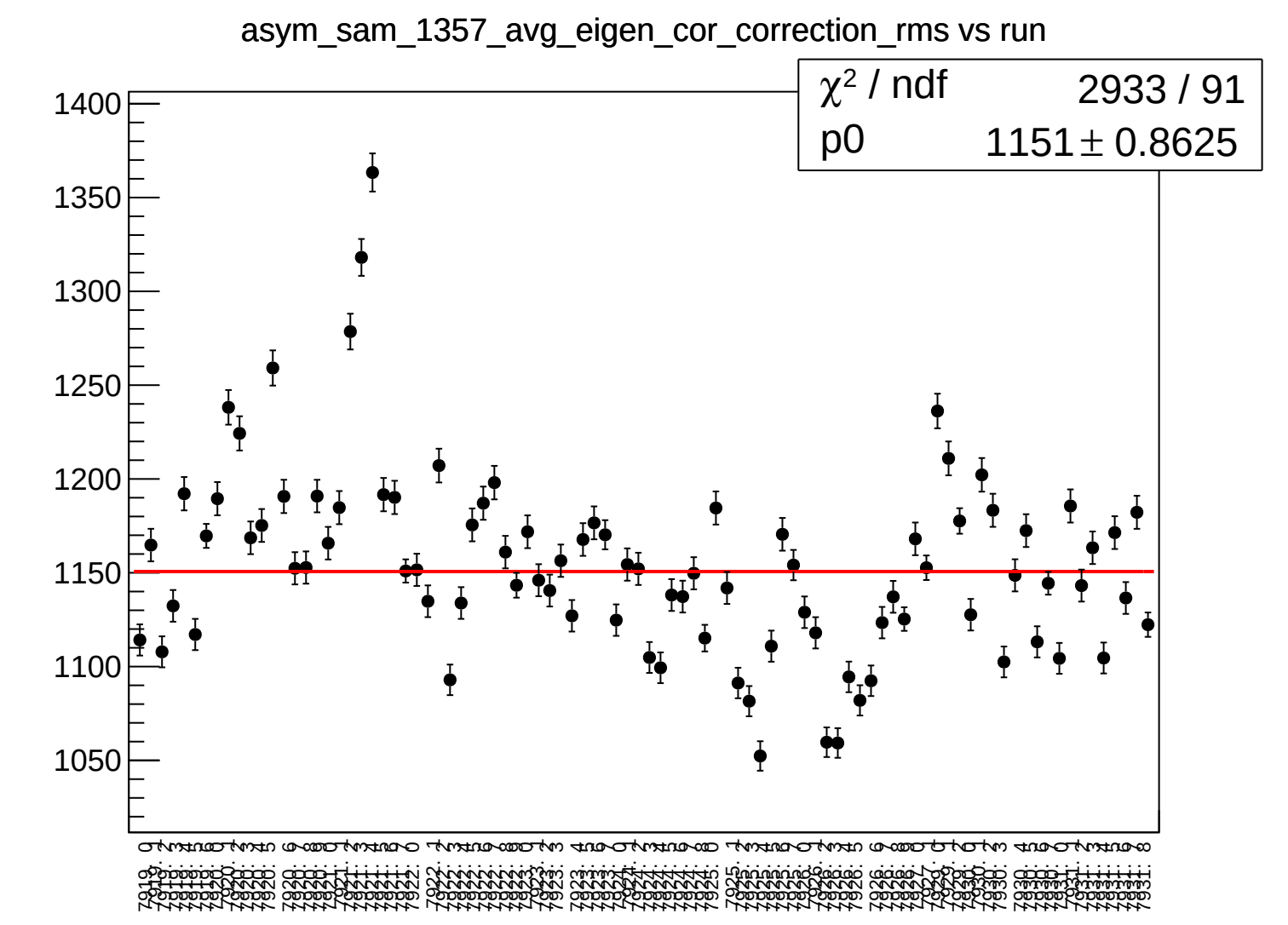

asym_sam_1357_avg_cor_correction_mean vs run
χ² / ndf 101.7 / 91
p0 −2300 ± 1220
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 2521
Std Dev 0
pull1D
Entries 92
Mean 0.001378
Std Dev 1.052

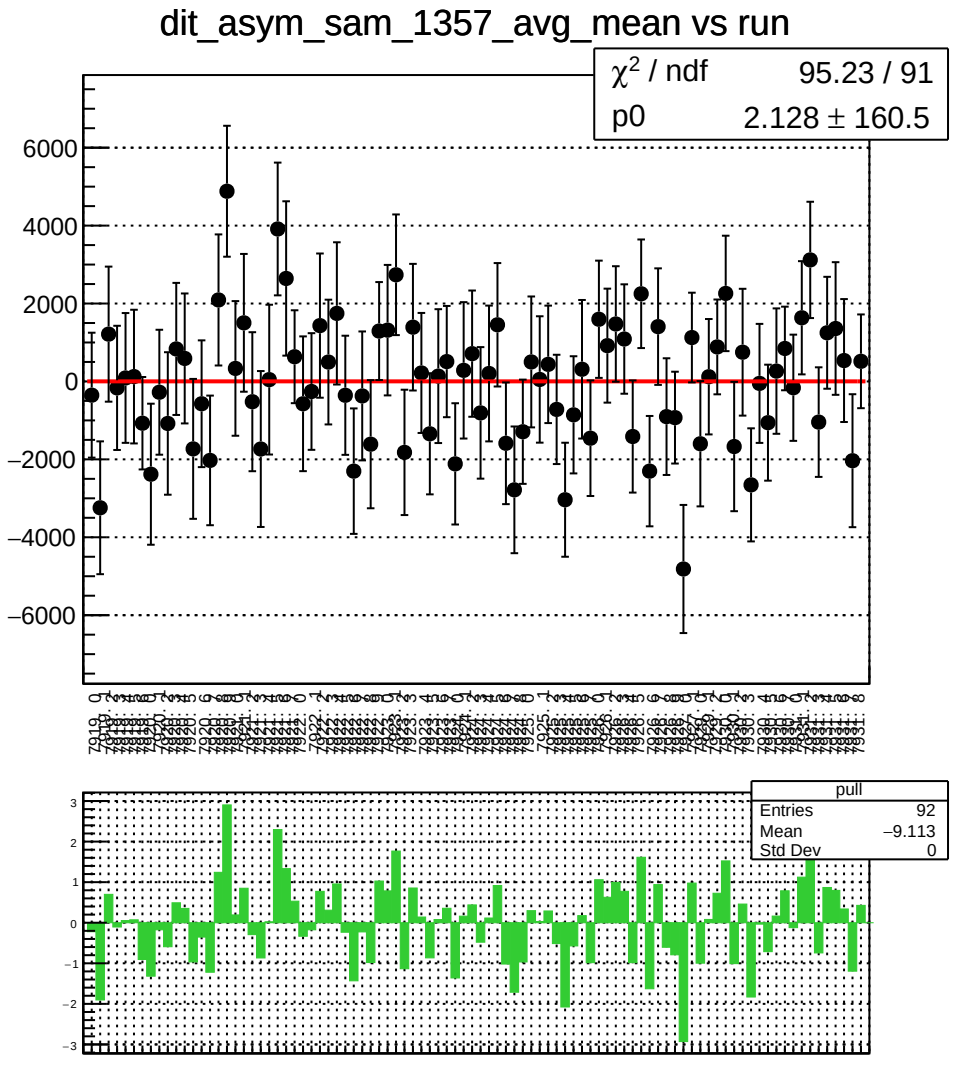

asym_sam_1357_avg_cor_correction_rms vs run
χ² / ndf 2933 / 91
p0 1151 ± 0.8625
1400
1350
1300
1250
1200
1150
1100
1050

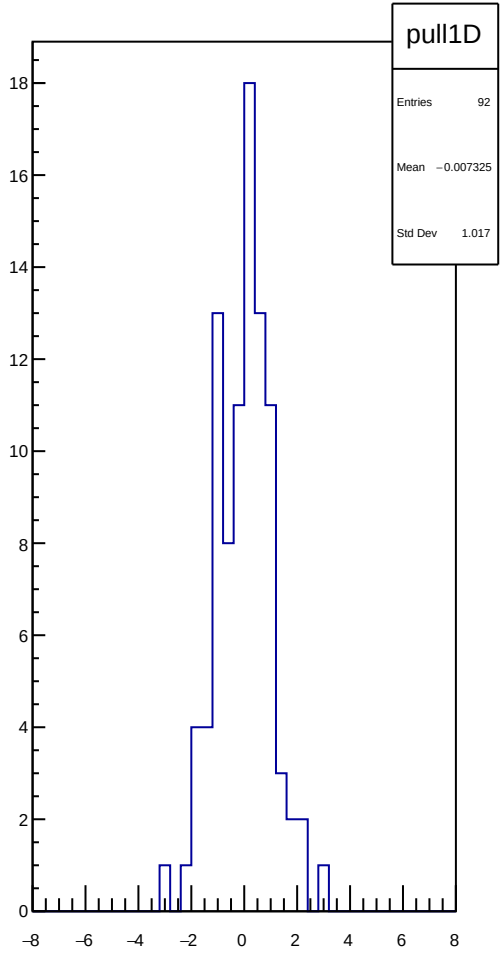

eigen_cor_asym_sam_1357_avg_mean vs run
χ² / ndf 102.4 / 91
p0 −12.99 ± 155.6
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 92
Mean −57.08
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.007199
Std Dev 1.055
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

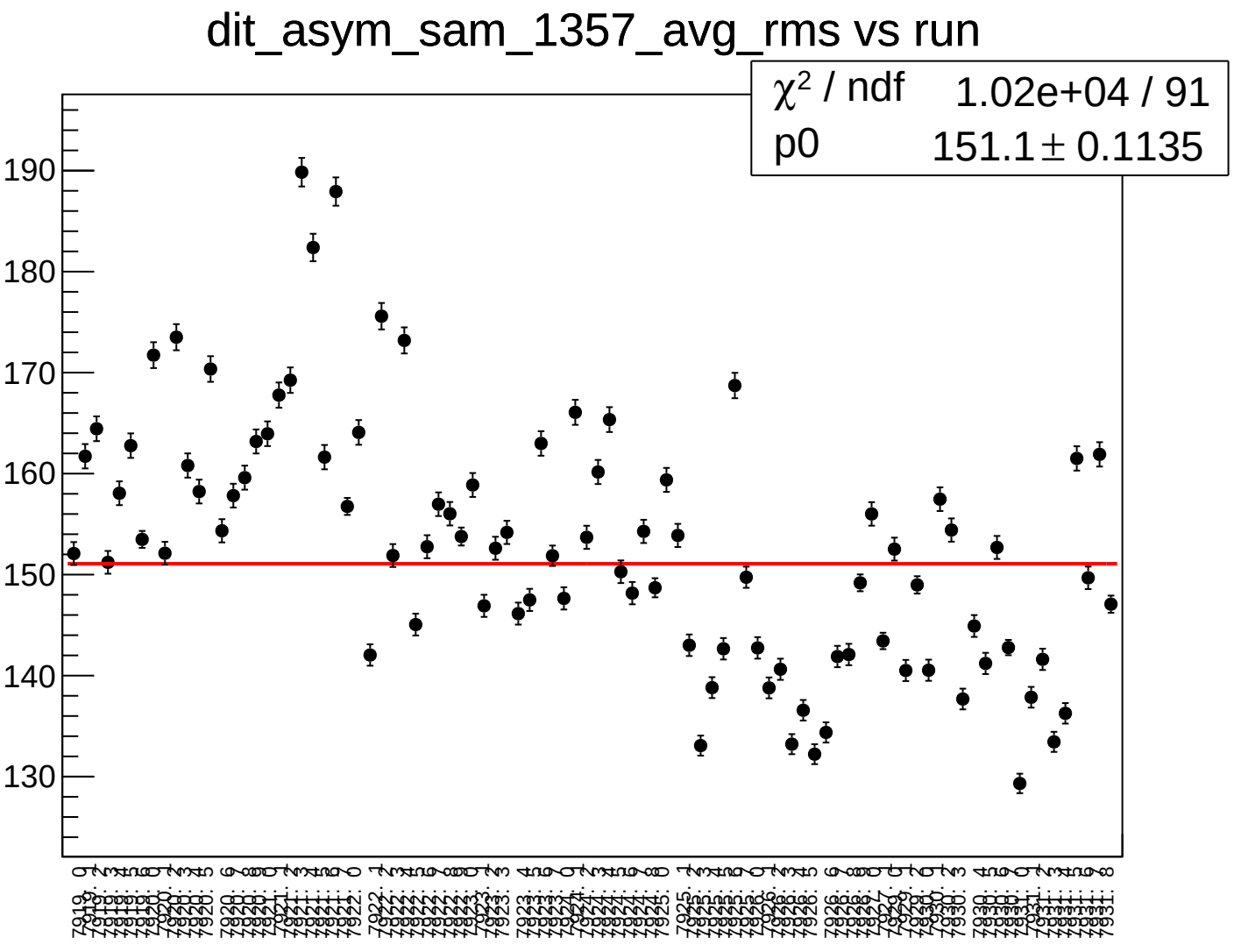

eigen_cor_asym_sam_1357_avg_rms vs run
χ² / ndf 1.09e+04 / 91
p0 146.4 ± 0.11
190
180
170
160
150
140
130
120

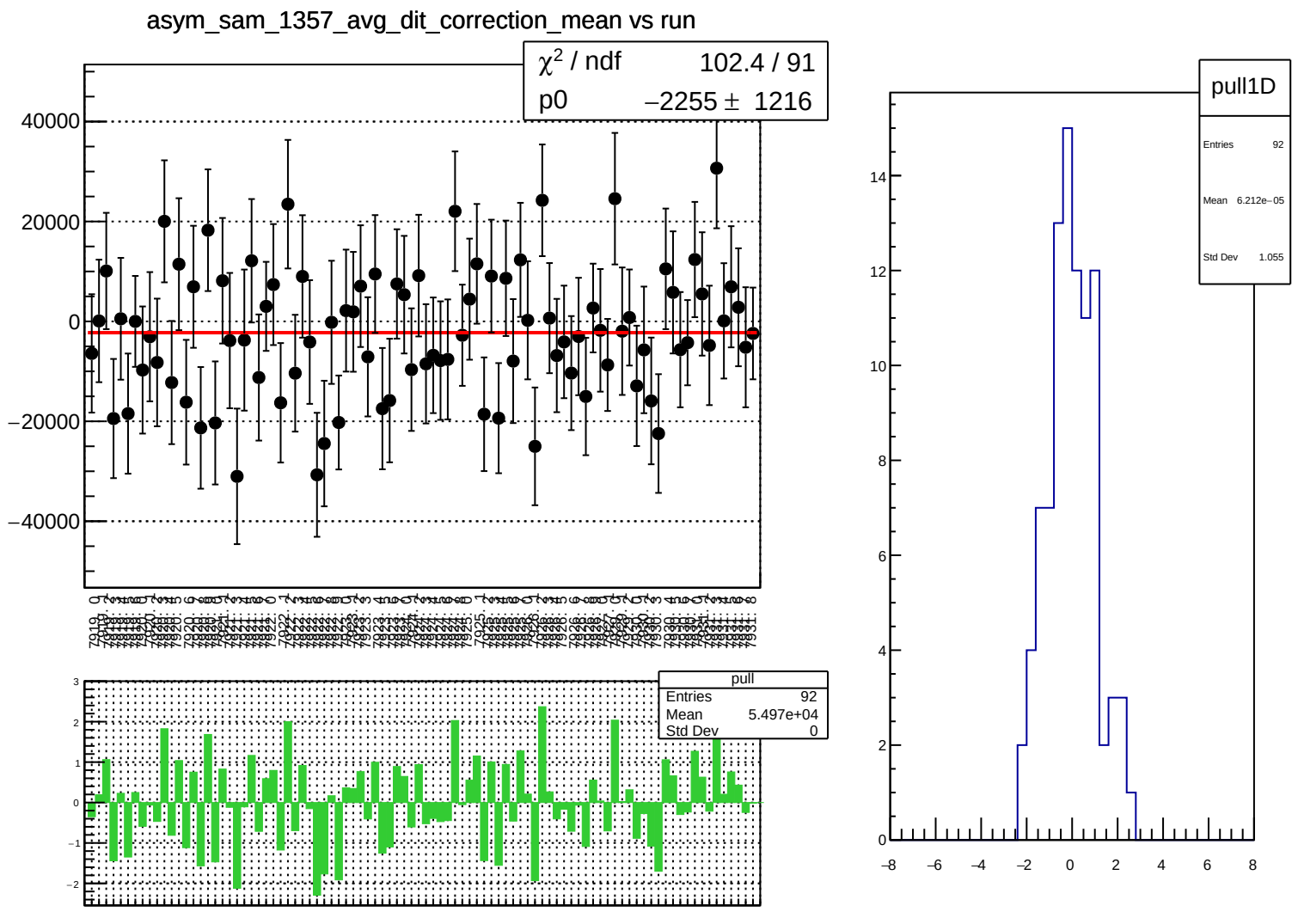

asym_sam_1357_avg_eigen_cor_correction_mean vs run
χ² / ndf 101.7 / 91
p0 −2300 ± 1220
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 2521
Std Dev 0
pull1D
Entries 92
Mean 0.001378
Std Dev 1.052

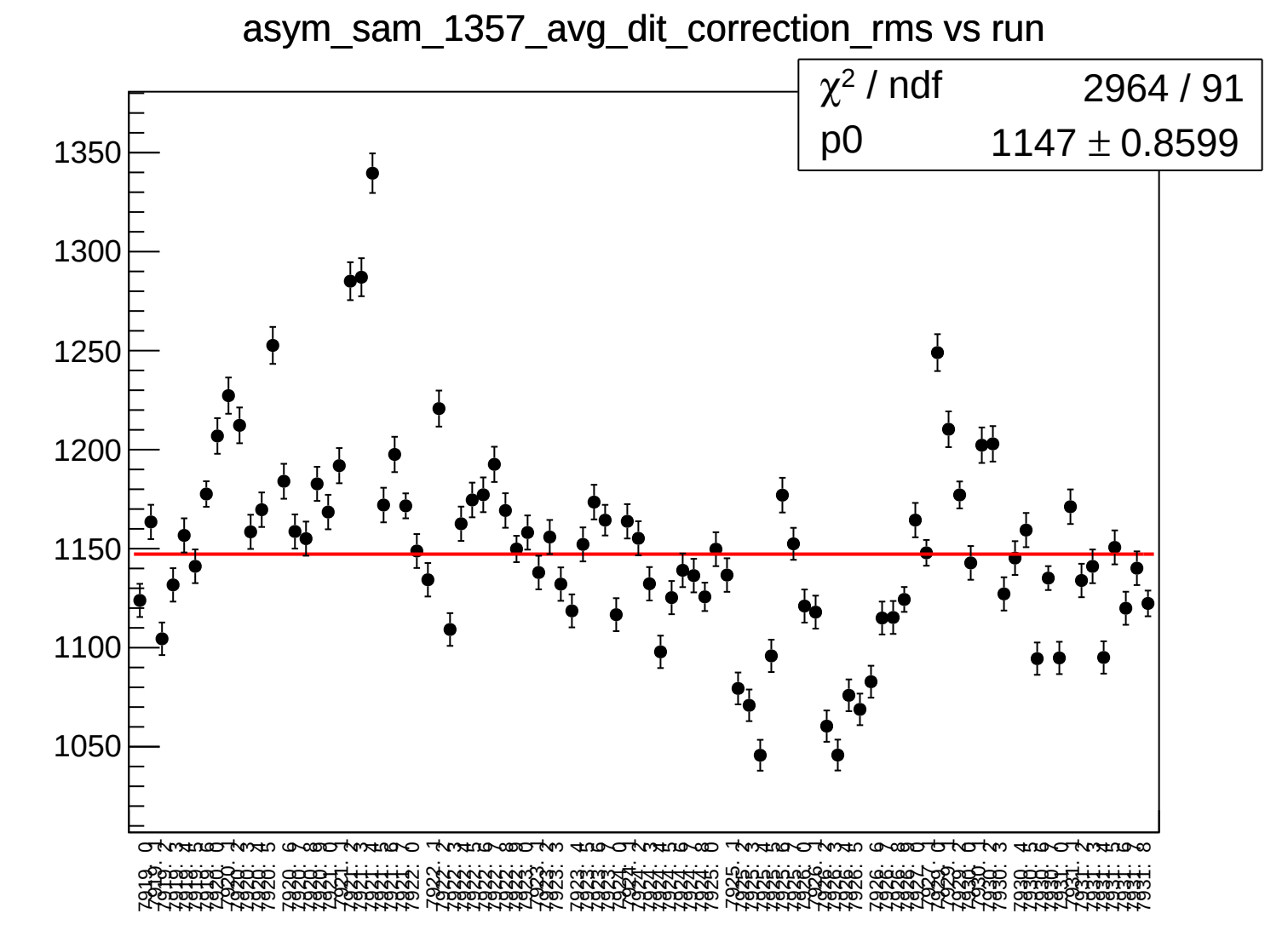

asym_sam_1357_avg_eigen_cor_correction_rms vs run
χ² / ndf 2933 / 91
p0 1151 ± 0.8625
1400
1350
1300
1250
1200
1150
1100
1050

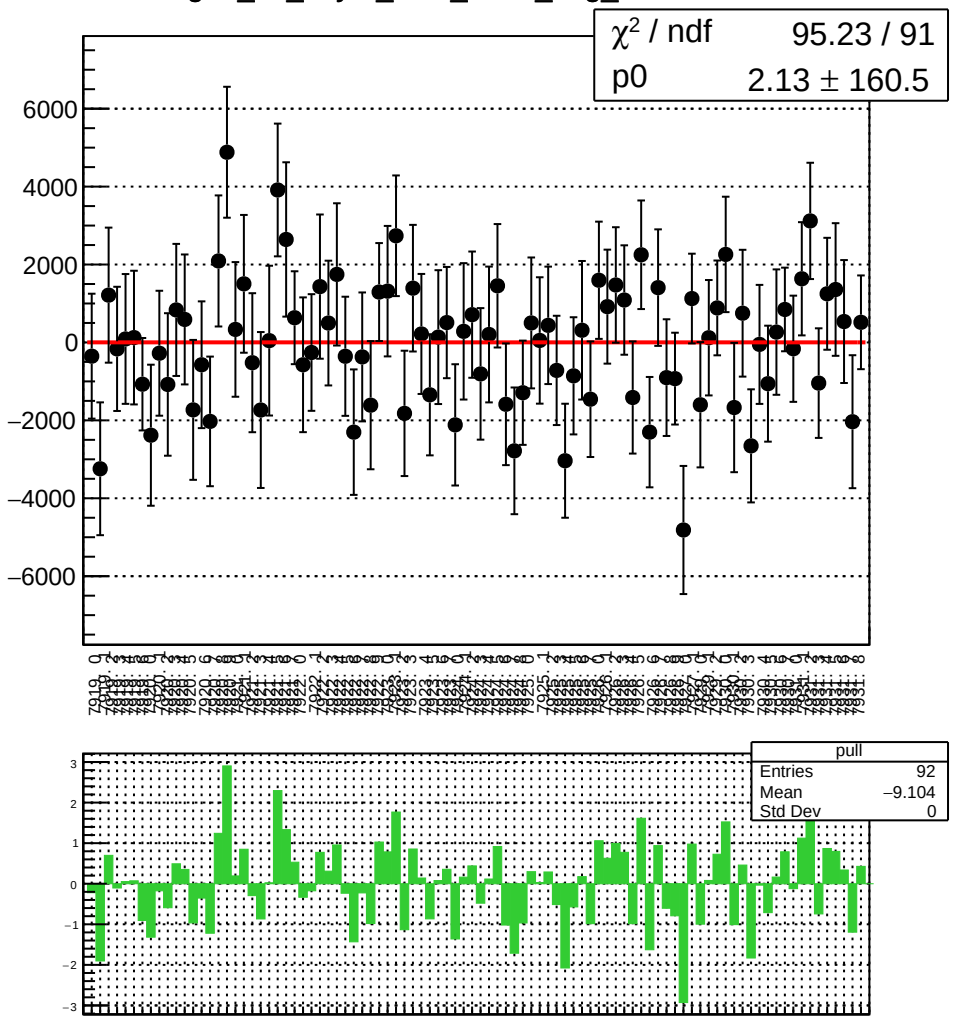

dit_asym_sam_1357_avg_mean vs run
χ² / ndf 95.23 / 91
p0 2.128 ± 160.5
pull
Entries 92
Mean −9.113
Std Dev 0

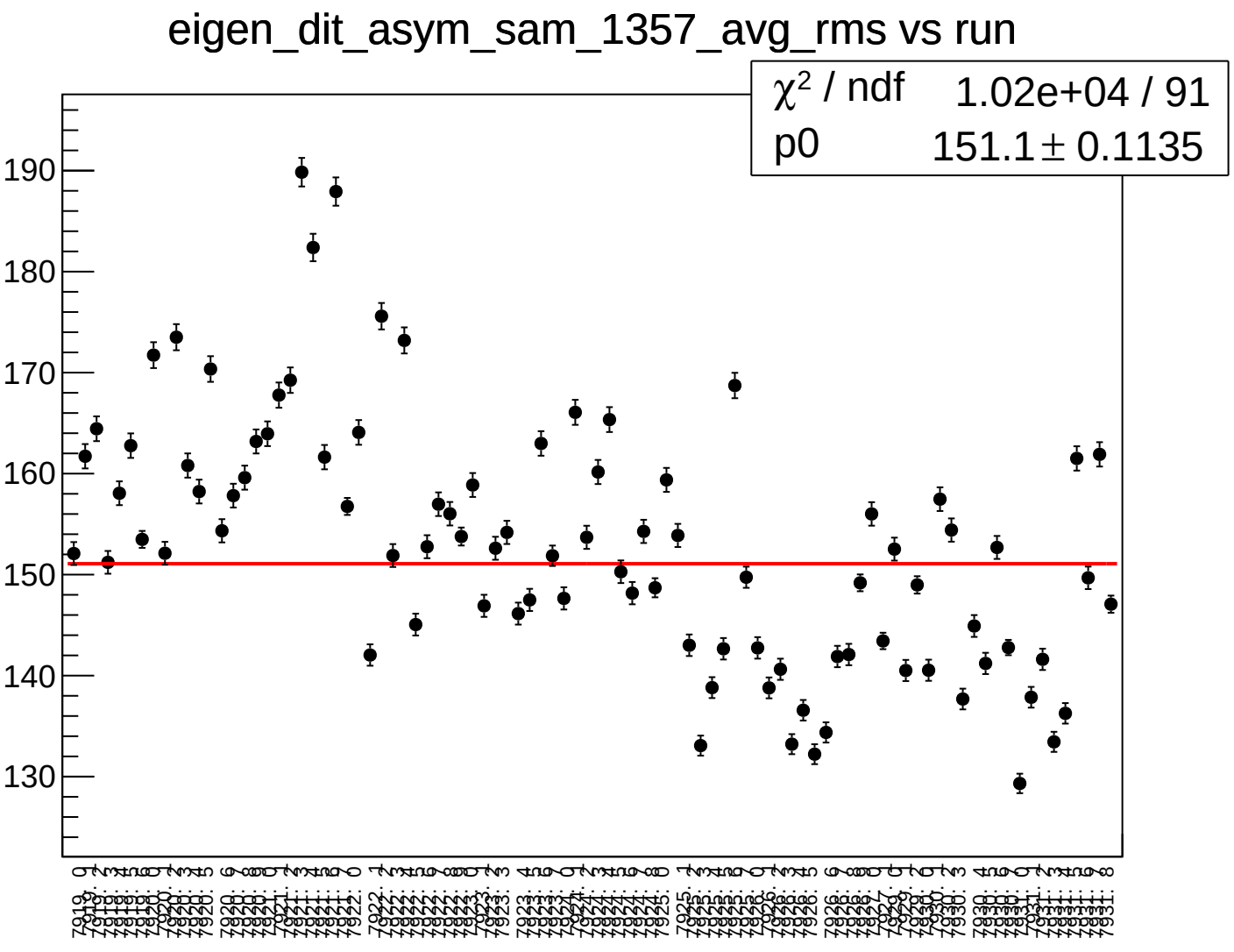

pull1D
Entries 92
Mean −0.007325
Std Dev 1.017

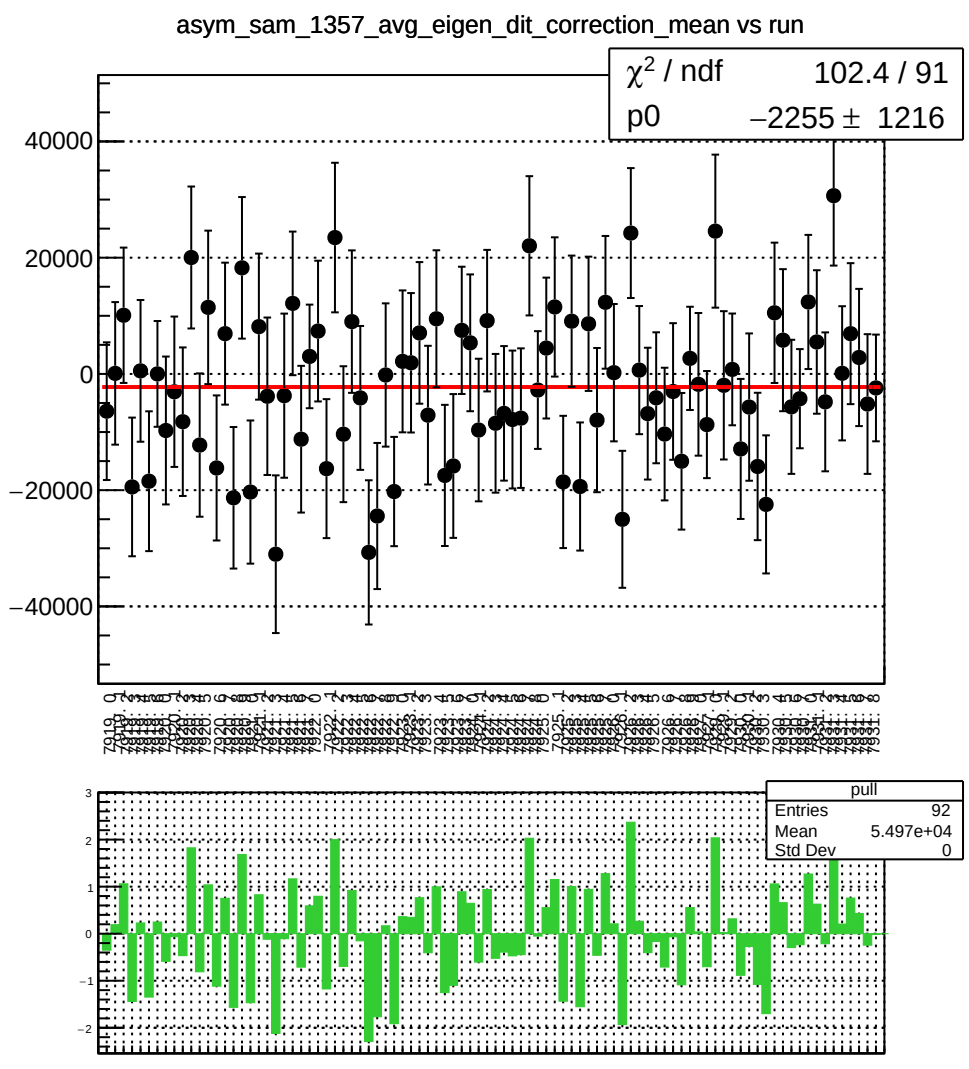

dit_asym_sam_1357_avg_rms vs run
χ² / ndf 1.02e+04 / 91
p0 151.1 ± 0.1135
190
180
170
160
150
140
130

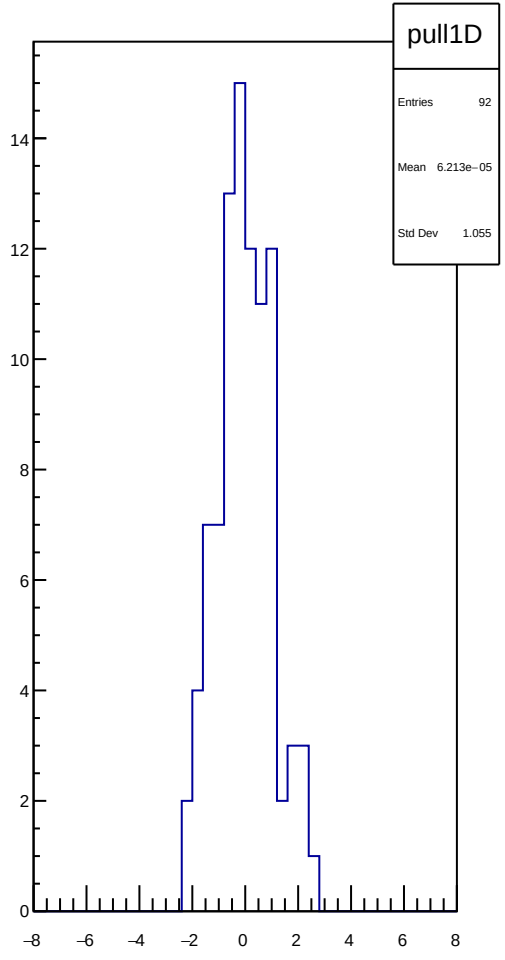

asym_sam_1357_avg_dit_correction_mean vs run
χ² / ndf 102.4 / 91
p0 −2255 ± 1216
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 5.497e+04
Std Dev 0
pull1D
Entries 92
Mean 6.212e−05
Std Dev 1.055

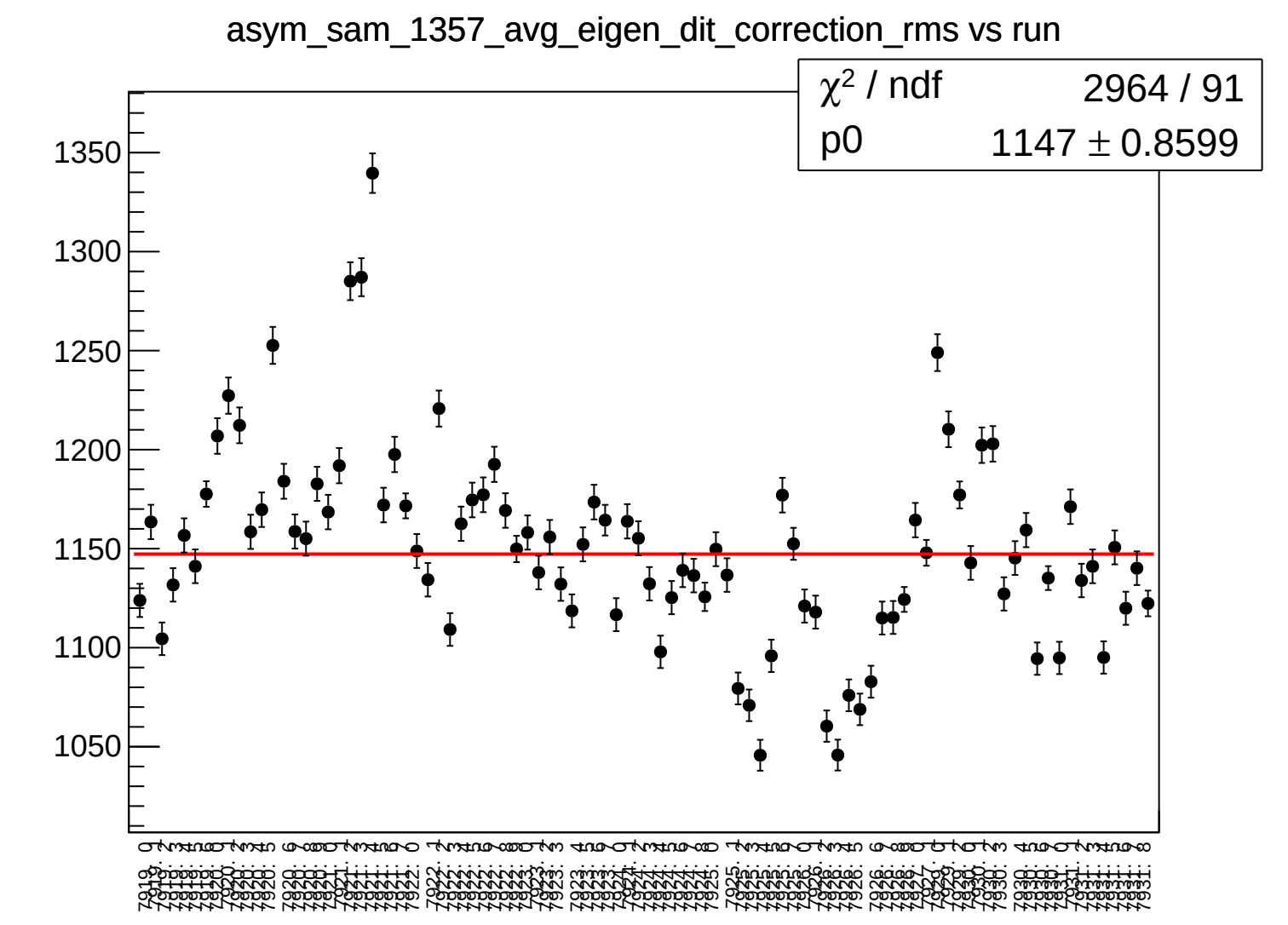

asym_sam_1357_avg_dit_correction_rms vs run
χ² / ndf 2964 / 91
p0 1147 ± 0.8599
1350
1300
1250
1200
1150
1100
1050

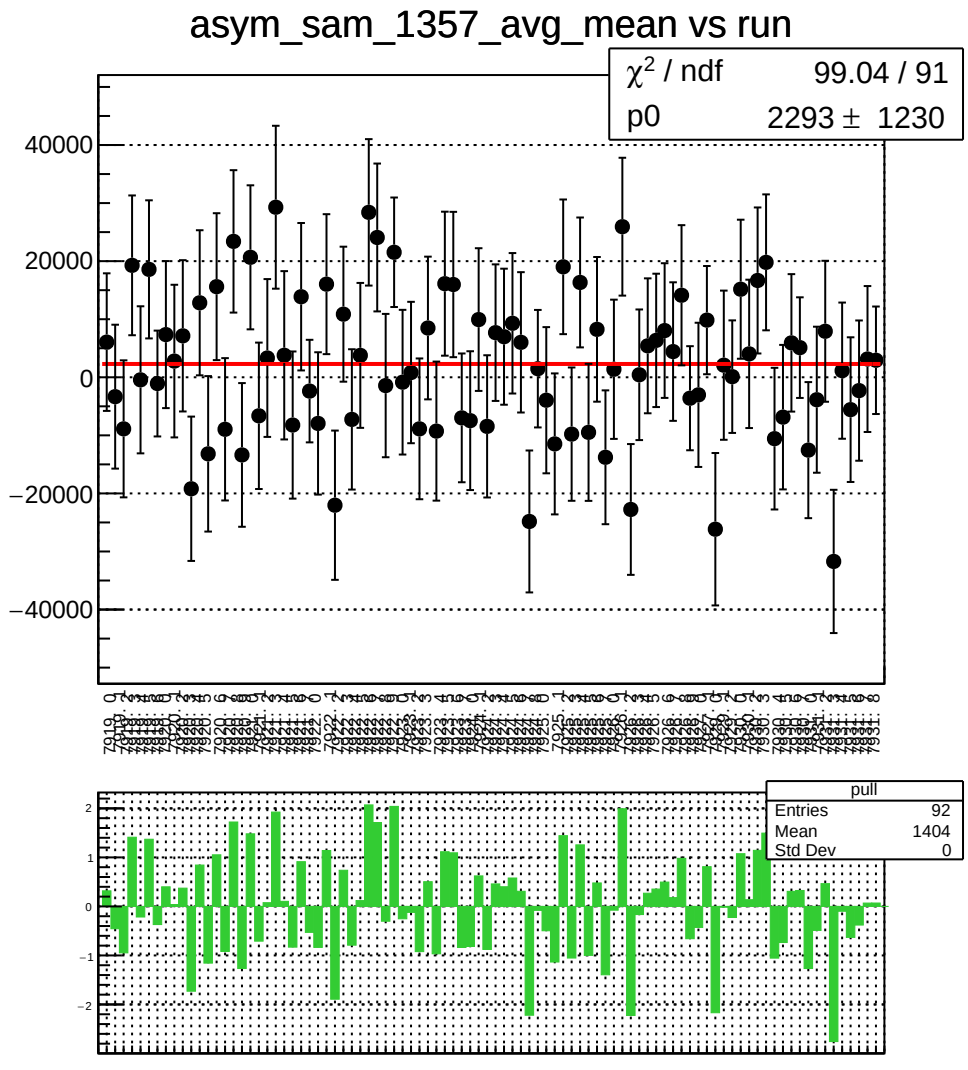

eigen_dit_asym_sam_1357_avg_mean vs run
χ² / ndf 95.23 / 91
p0 2.13 ± 160.5
pull
Entries 92
Mean −9.104
Std Dev 0
pull1D
Entries 92
Mean −0.007324
Std Dev 1.017

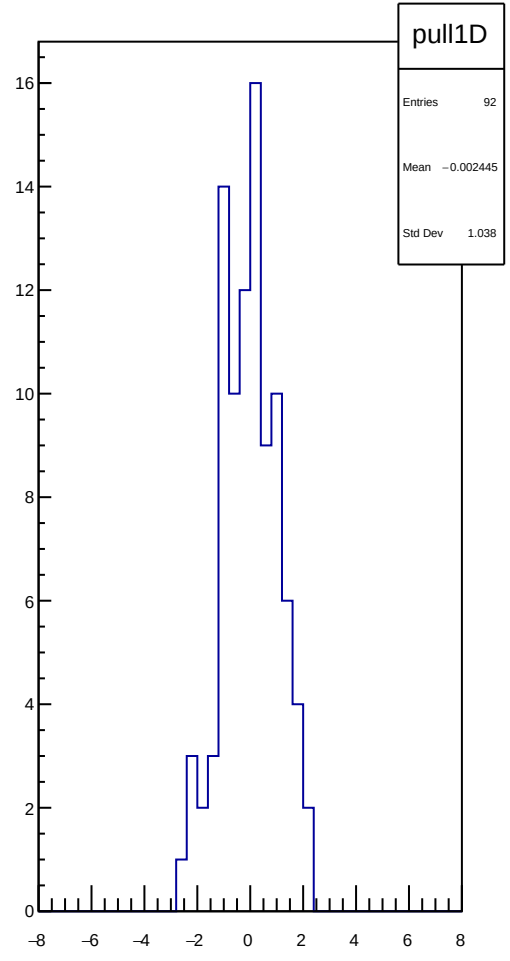

eigen_dit_asym_sam_1357_avg_rms vs run
χ² / ndf 1.02e+04 / 91
p0 151.1 ± 0.1135
190
180
170
160
150
140
130

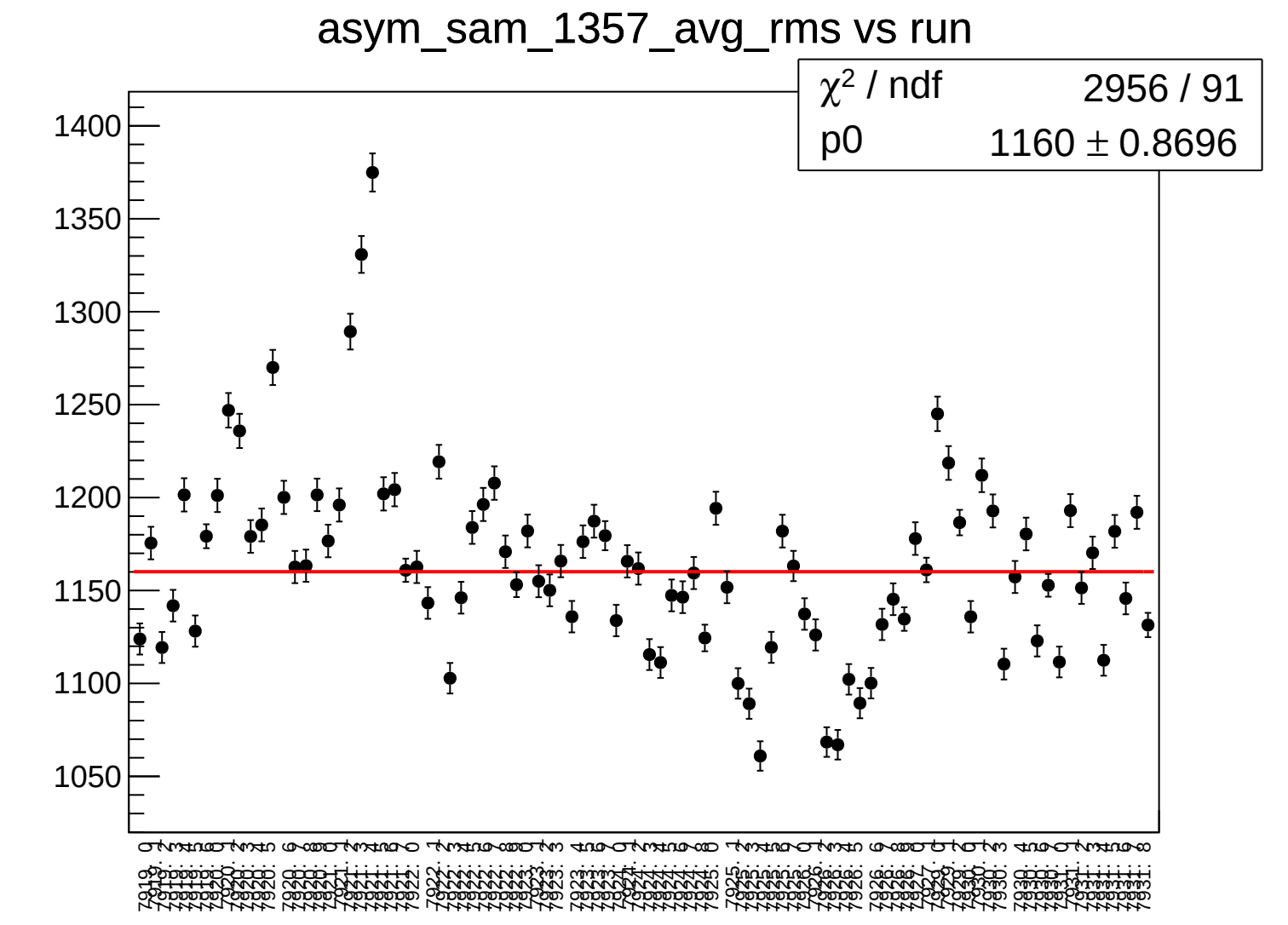

asym_sam_1357_avg_eigen_dit_correction_mean vs run
χ² / ndf 102.4 / 91
p0 −2255 ± 1216
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 5.497e+04
Std Dev 0
3
2
1
0
−1
−2

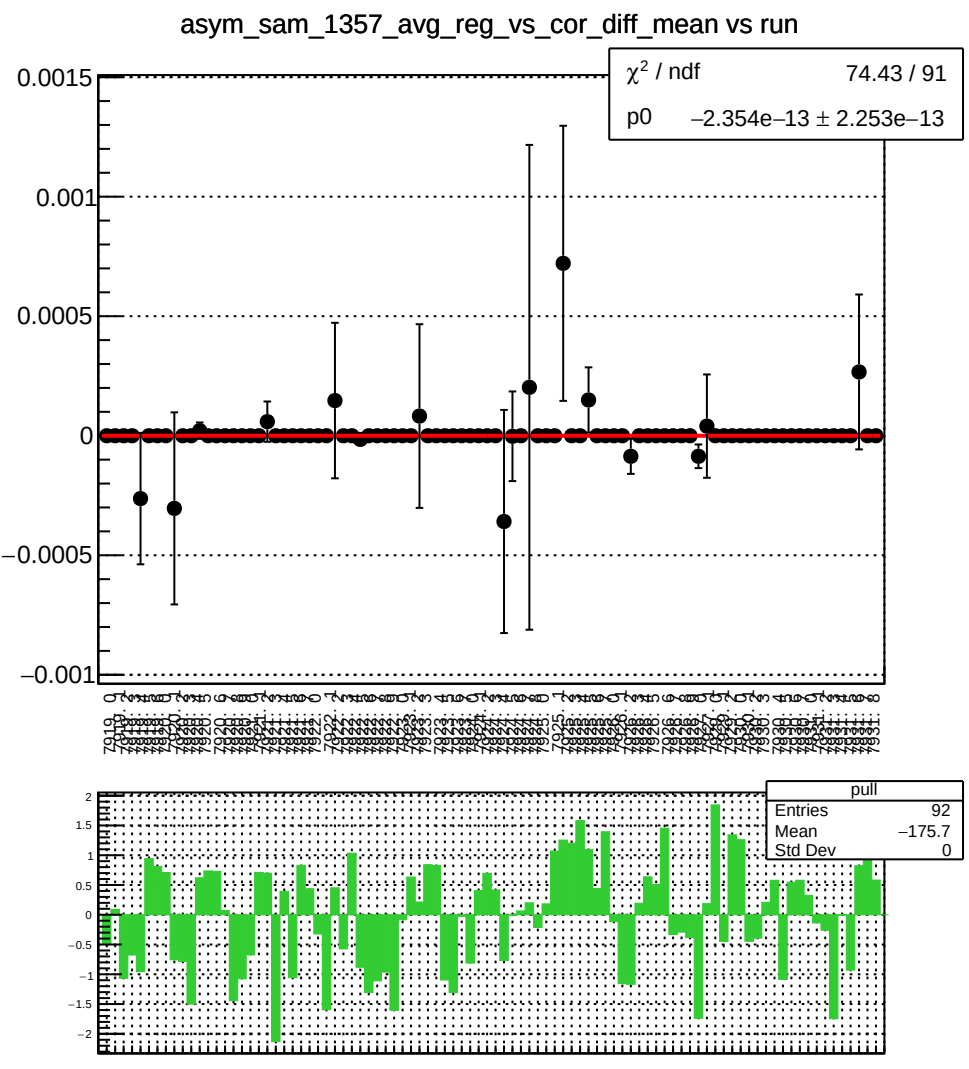

pull1D
Entries 92
Mean 6.213e−05
Std Dev 1.055
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

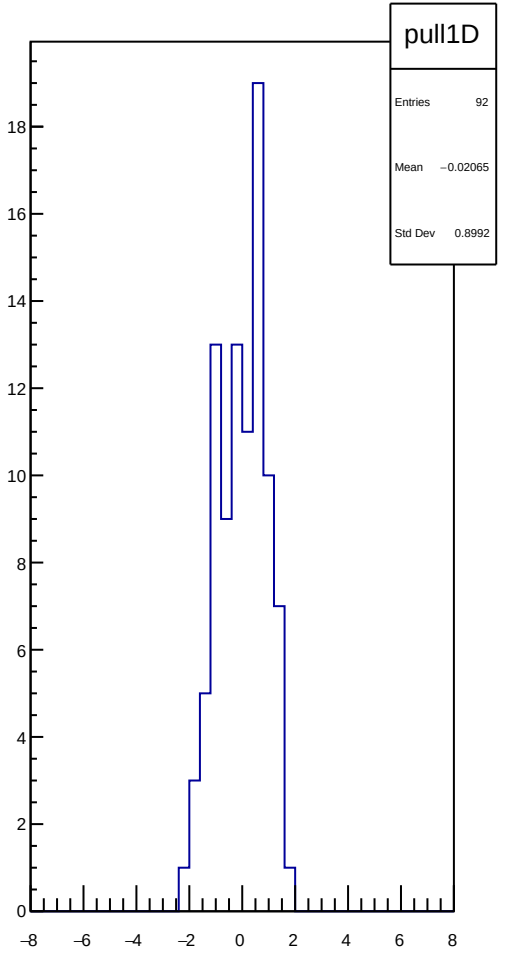

asym_sam_1357_avg_eigen_dit_correction_rms vs run
χ² / ndf 2964 / 91
p0 1147 ± 0.8599
1350
1300
1250
1200
1150
1100
1050

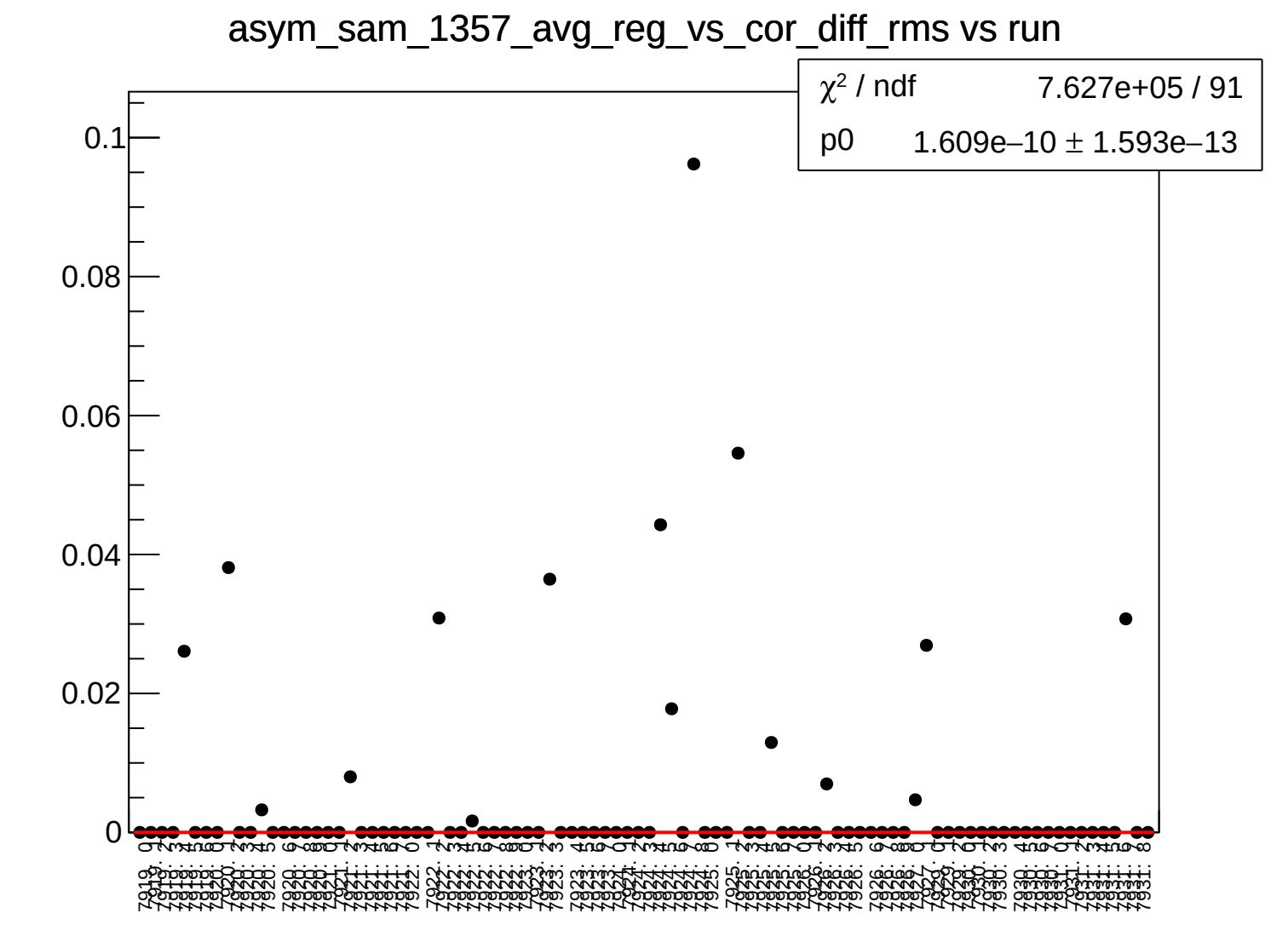

asym_sam_1357_avg_mean vs run
χ² / ndf 99.04 / 91
p0 2293 ± 1230
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 1404
Std Dev 0
2
1
0
−1
−2

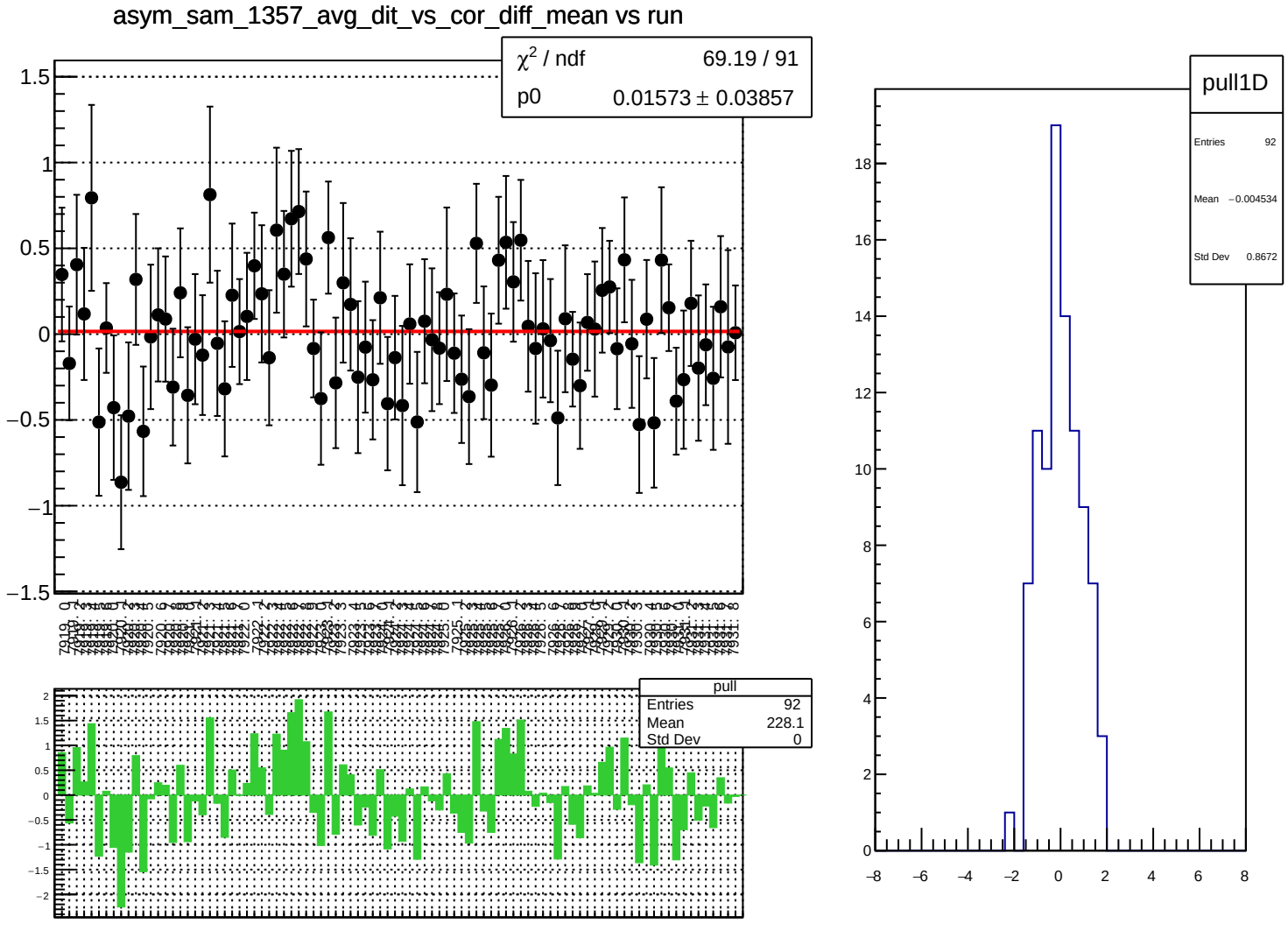

pull1D
Entries 92
Mean −0.002445
Std Dev 1.038
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

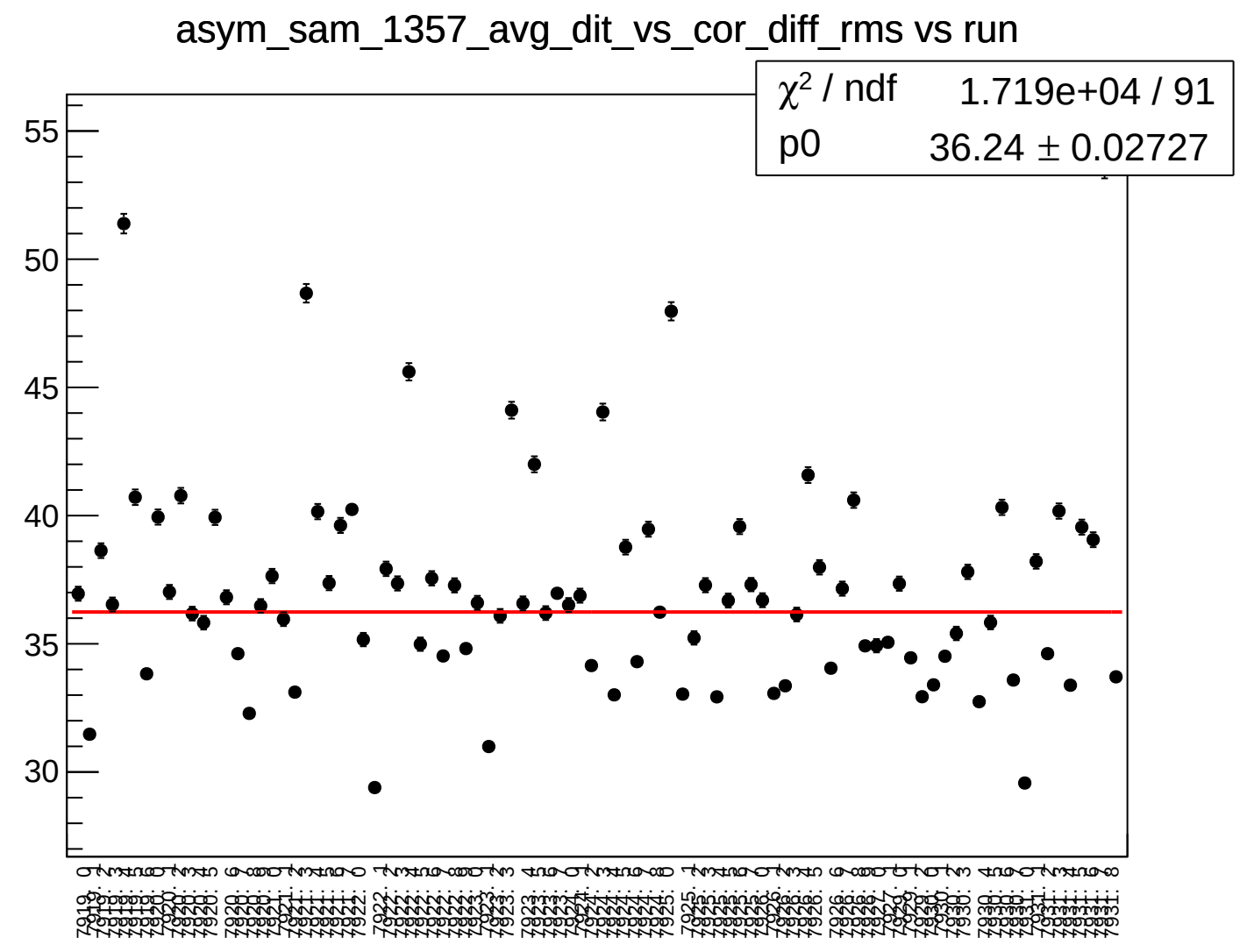

asym_sam_1357_avg_rms vs run
χ² / ndf 2956 / 91
p0 1160 ± 0.8696
1400
1350
1300
1250
1200
1150
1100
1050

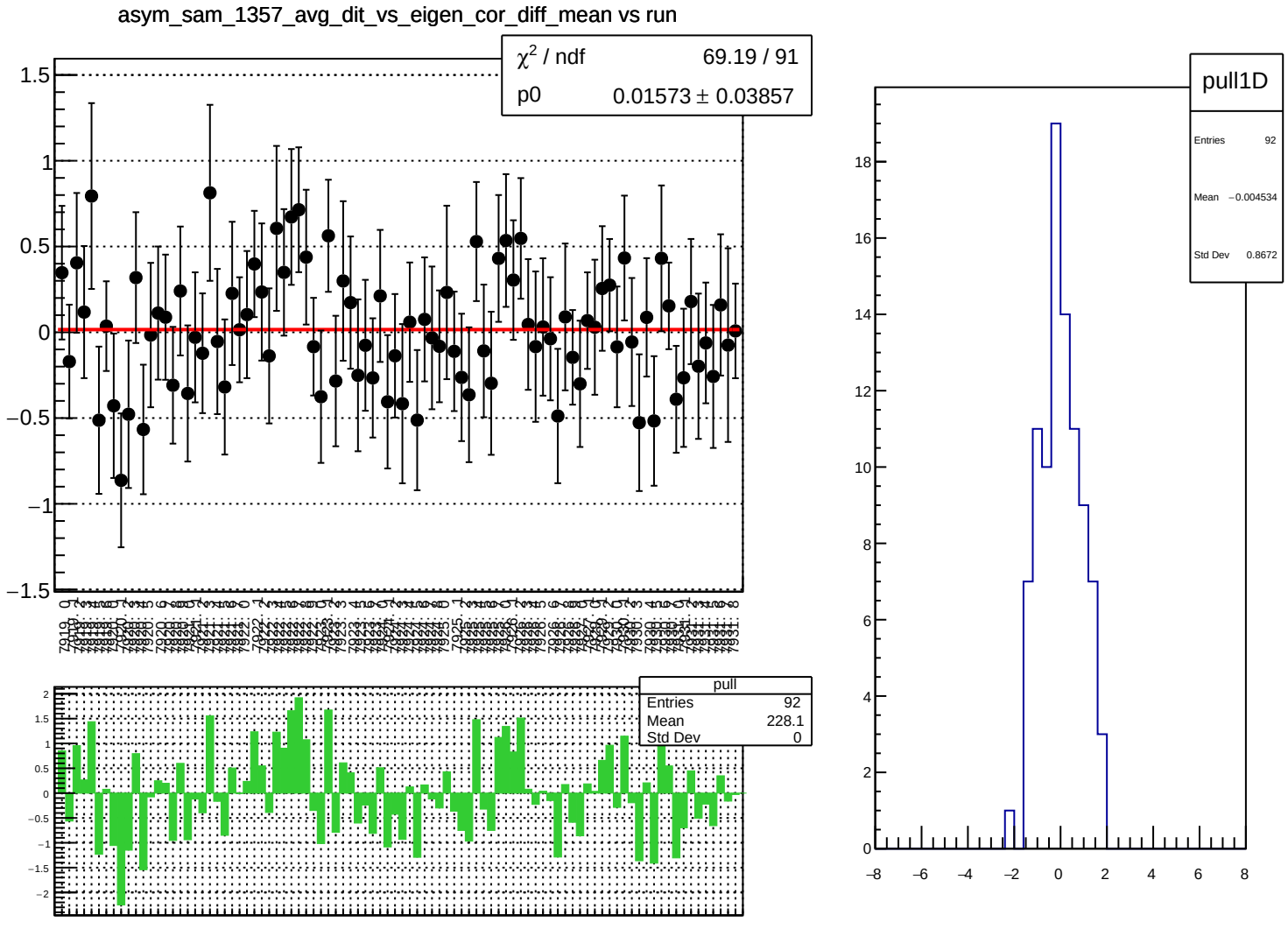

asym_sam_1357_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 74.43 / 91
p0 −2.354e−13 ± 2.253e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 92
Mean −175.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

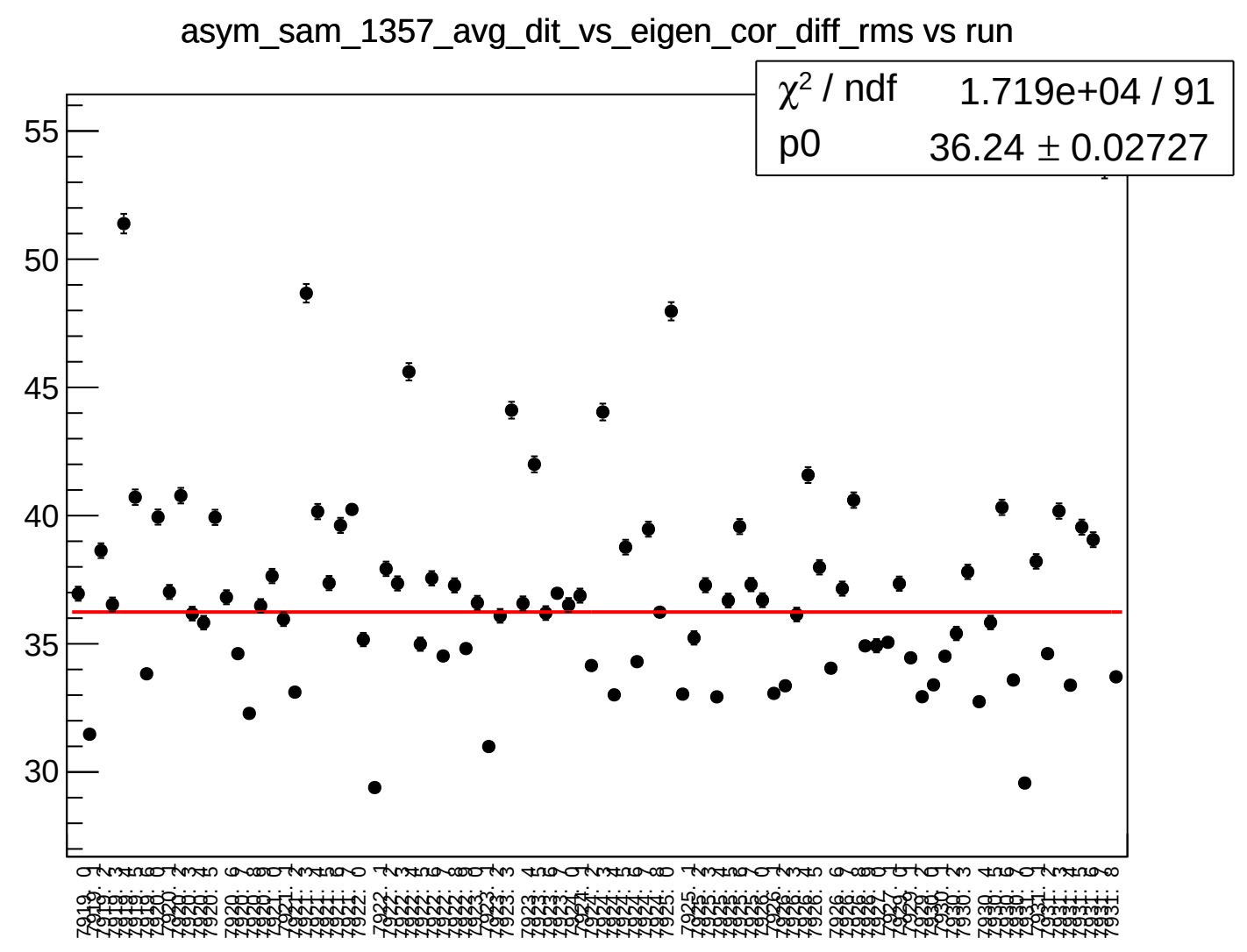

pull1D
Entries 92
Mean −0.02065
Std Dev 0.8992
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

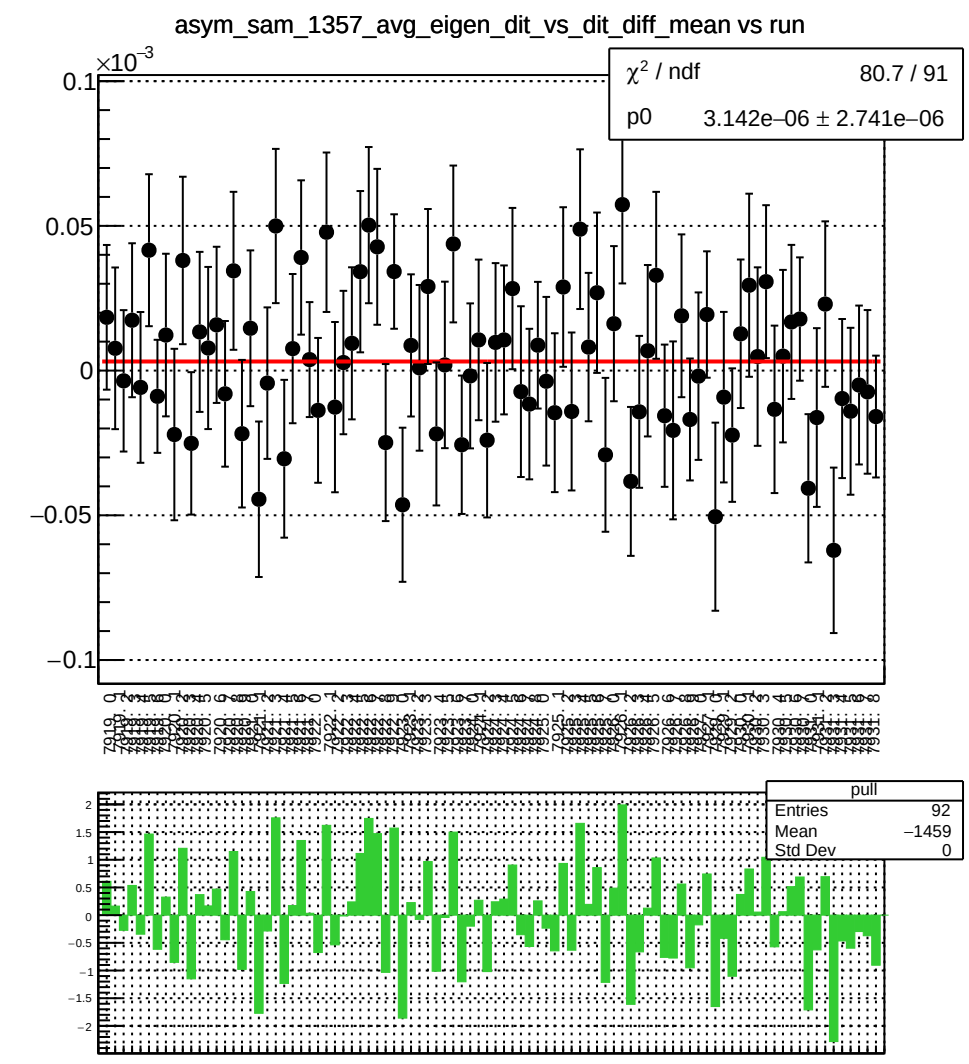

asym_sam_1357_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 7.627e+05 / 91
p0 1.609e−10 ± 1.593e−13
0.1
0.08
0.06
0.04
0.02
0

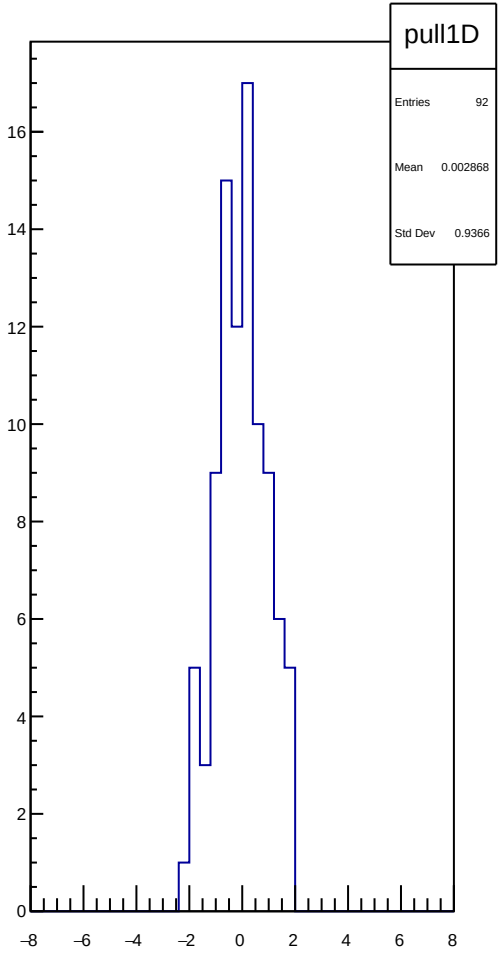

asym_sam_1357_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 69.19 / 91
p0 0.01573 ± 0.03857
pull
Entries 92
Mean 228.1
Std Dev 0
pull1D
Entries 92
Mean −0.004534
Std Dev 0.8672

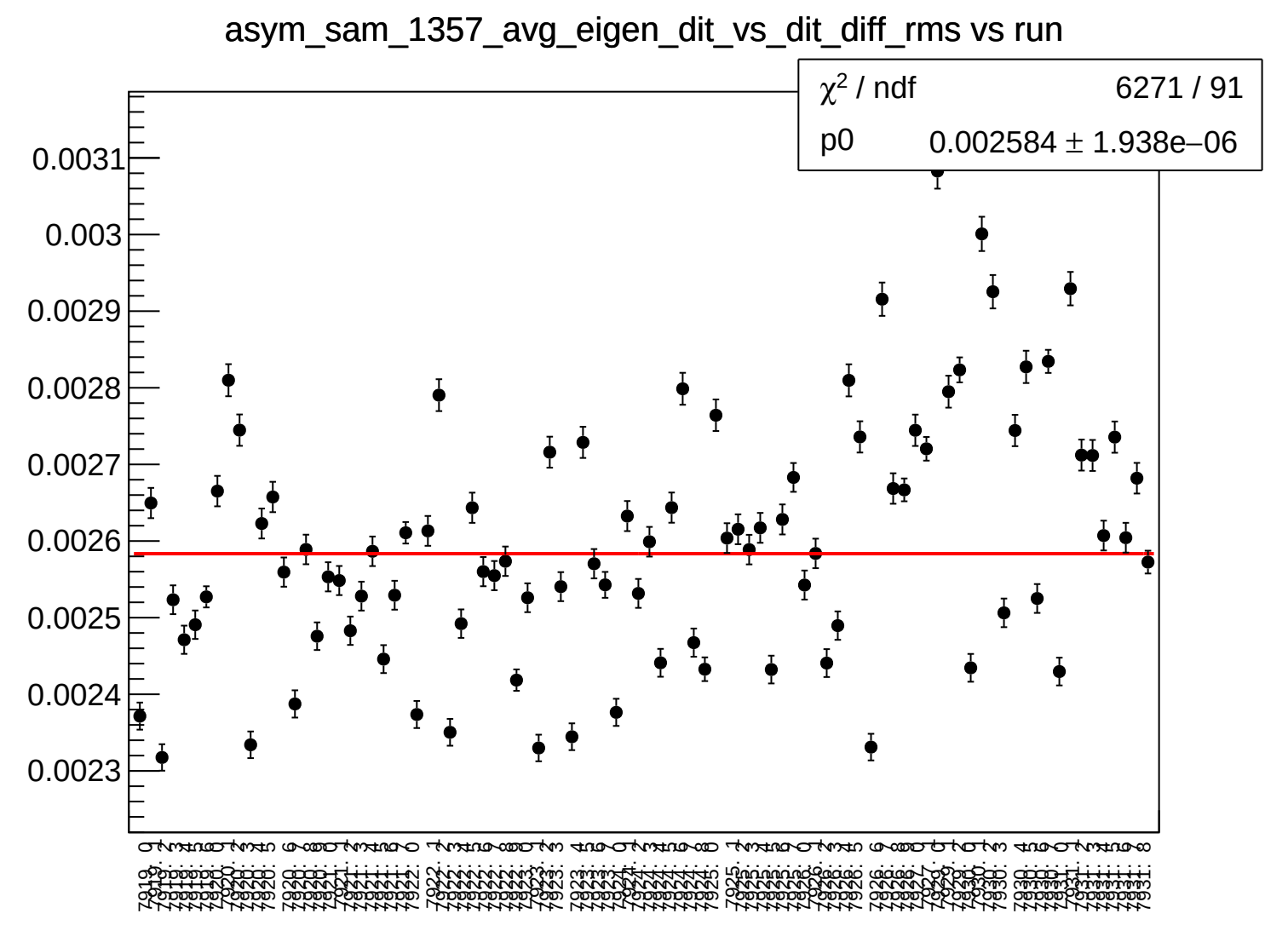

asym_sam_1357_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.719e+04 / 91
p0 36.24 ± 0.02727
55
50
45
40
35
30

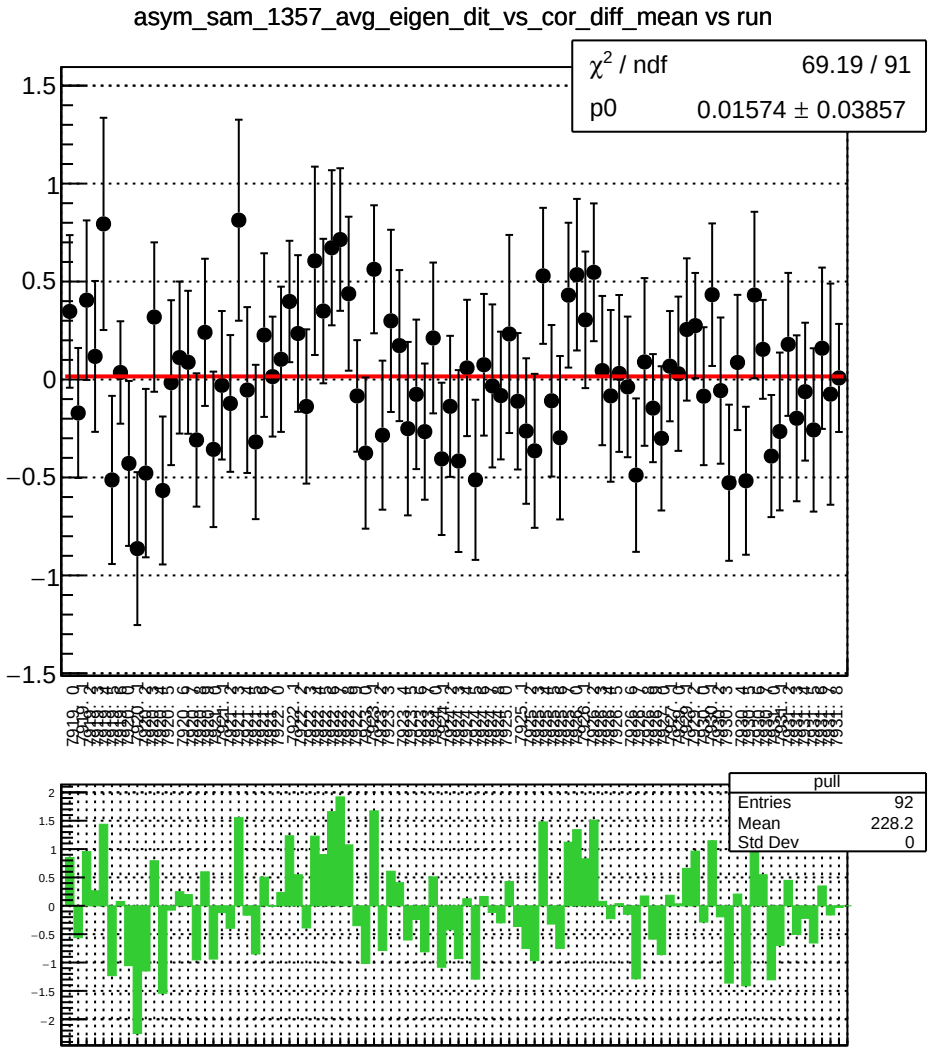

asym_sam_1357_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.19 / 91
p0 0.01573 ± 0.03857
pull
Entries 92
Mean 228.1
Std Dev 0
pull1D
Entries 92
Mean −0.004534
Std Dev 0.8672

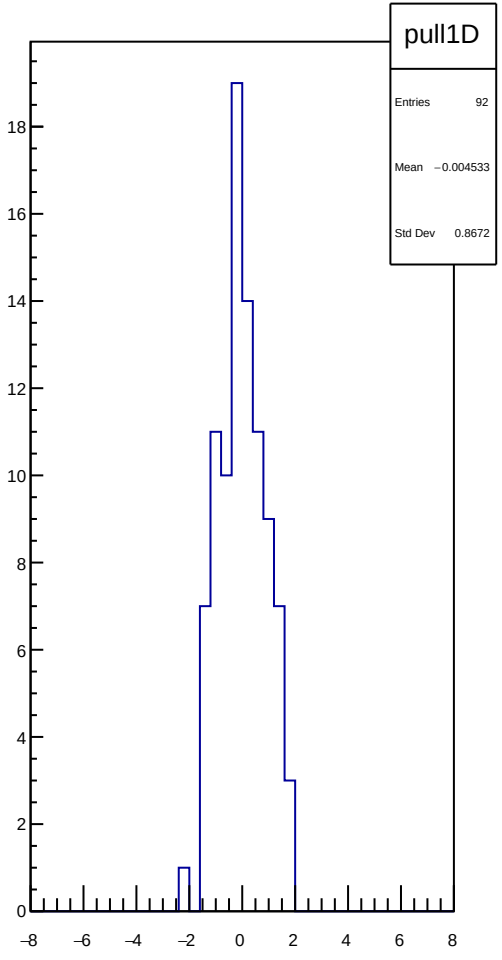

asym_sam_1357_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.719e+04 / 91
p0 36.24 ± 0.02727
55
50
45
40
35
30

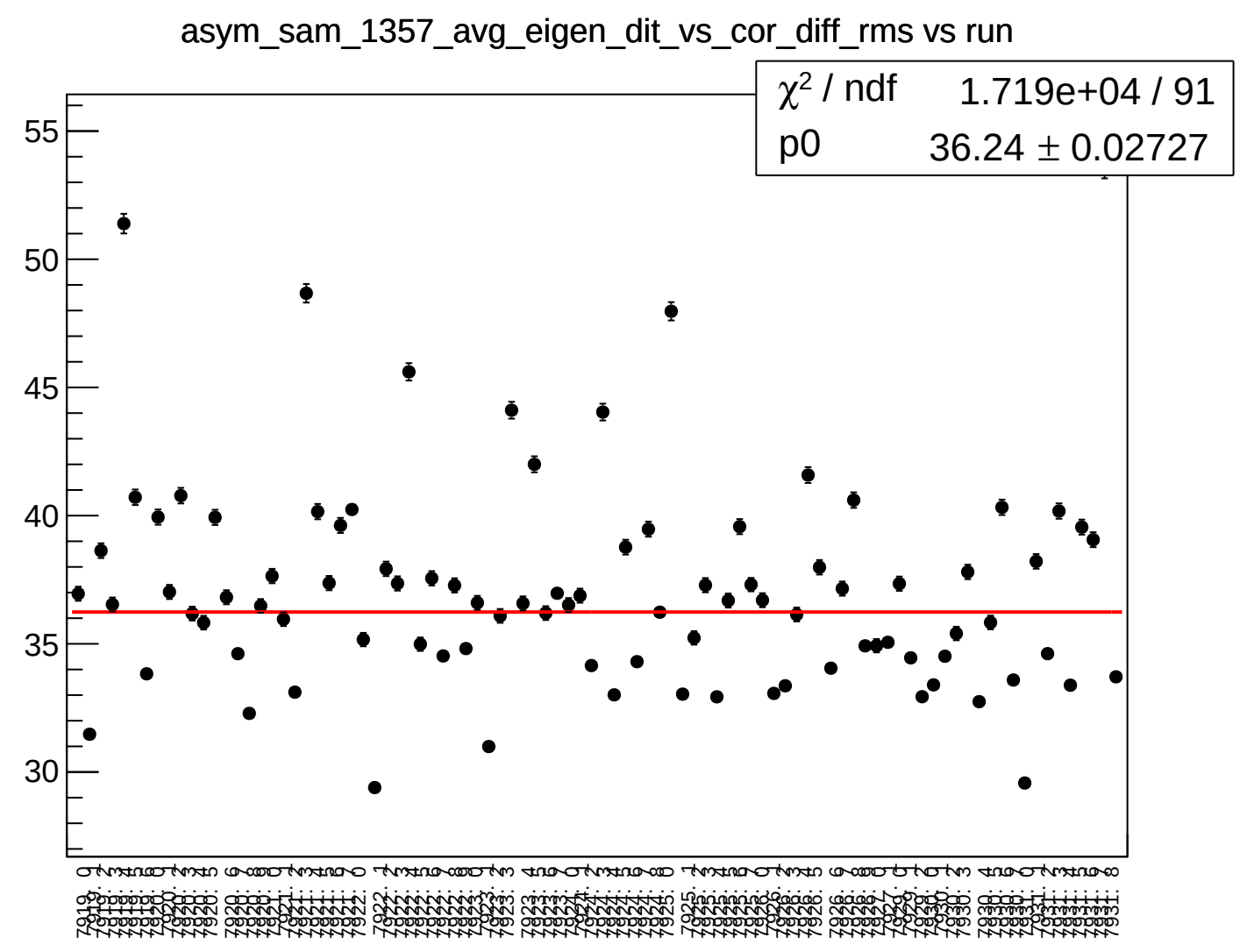

asym_sam_1357_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 80.7 / 91
p0 3.142e−06 ± 2.741e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 92
Mean −1459
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

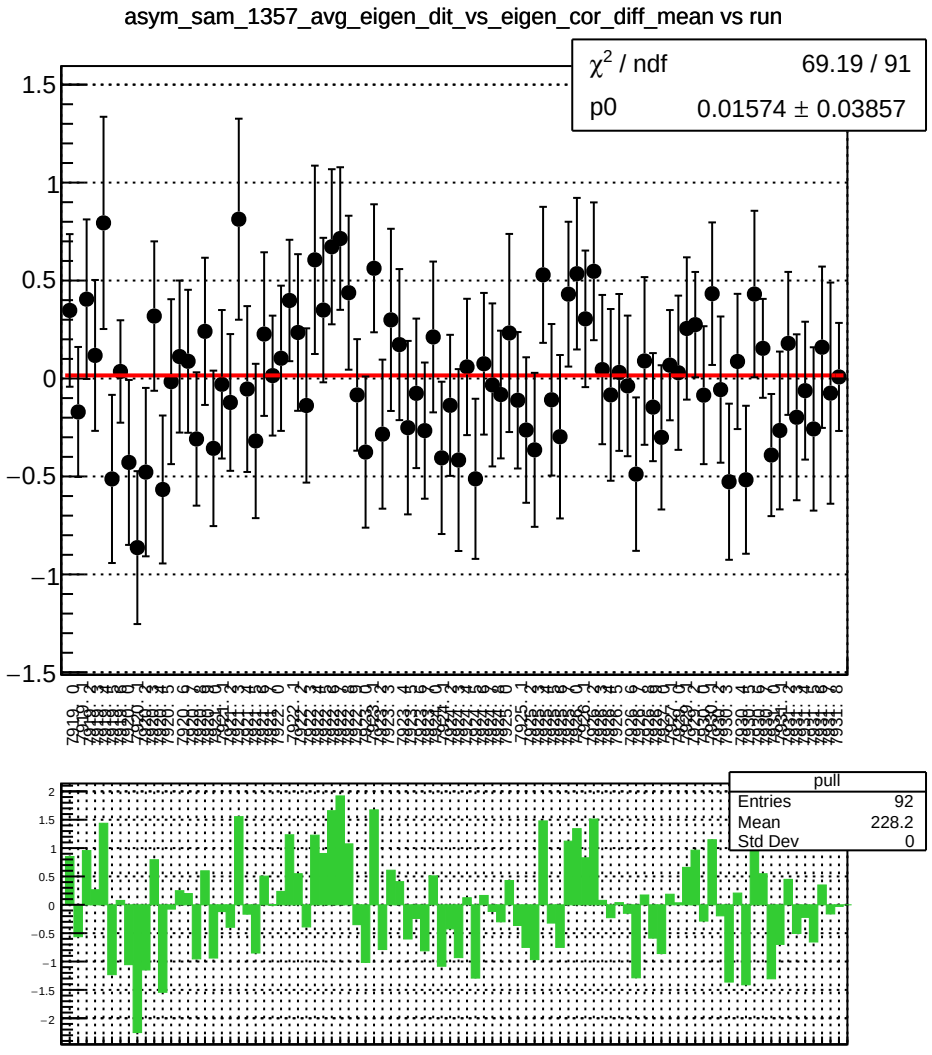

pull1D
Entries 92
Mean 0.002868
Std Dev 0.9366
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

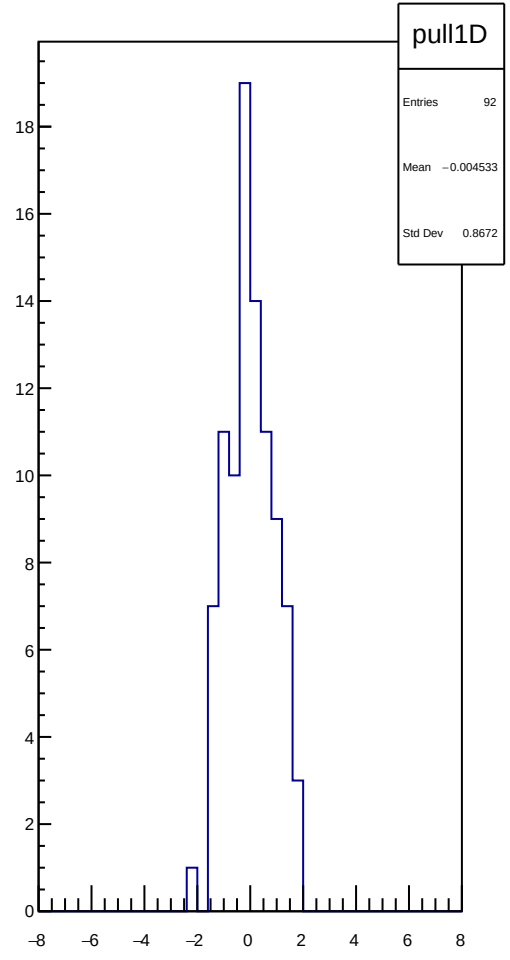

asym_sam_1357_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6271 / 91
p0 0.002584 ± 1.938e−06
0.0031
0.003
0.0029
0.0028
0.0027
0.0026
0.0025
0.0024
0.0023

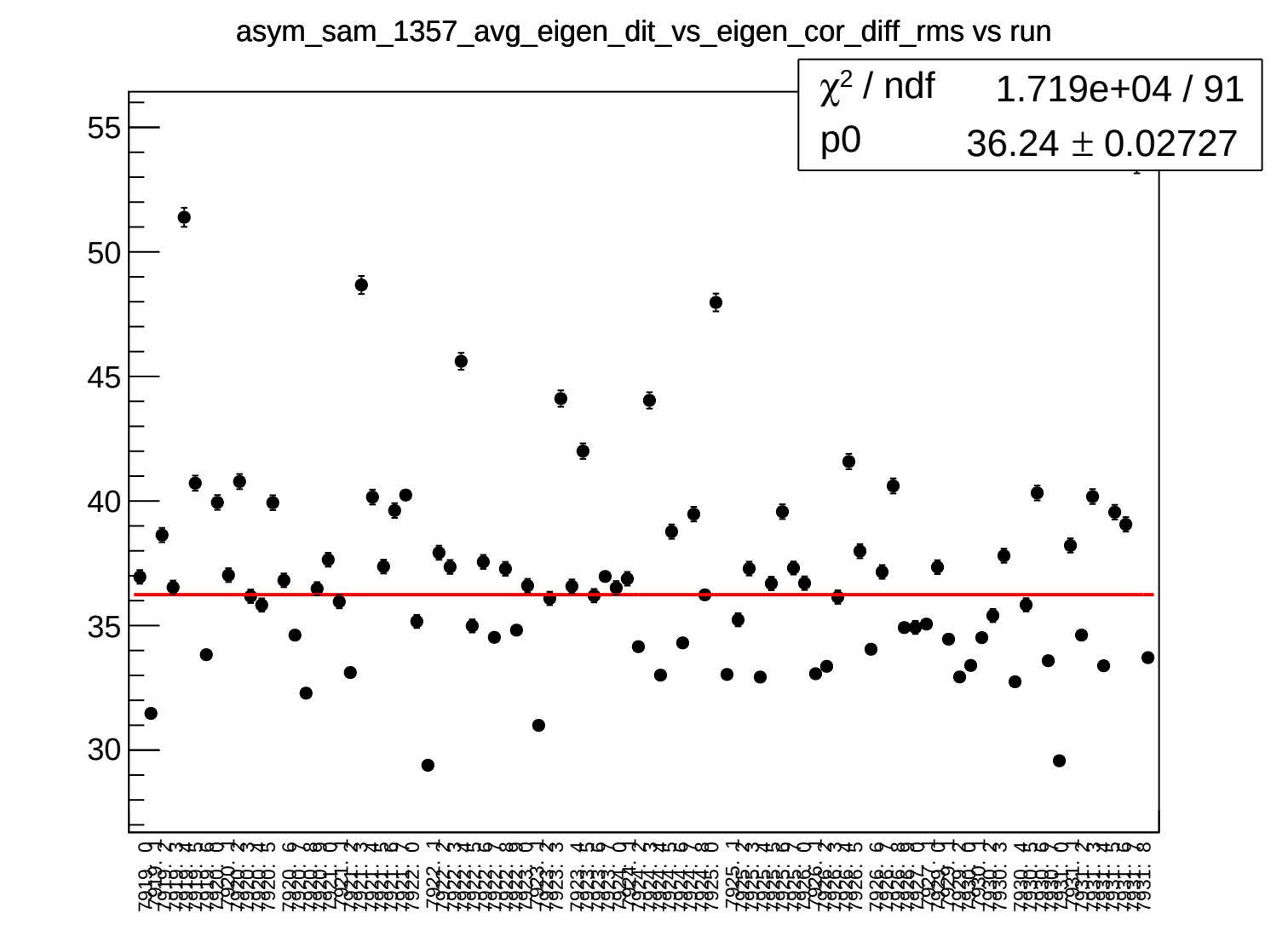

asym_sam_1357_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 69.19 / 91
p0 0.01574 ± 0.03857
pull
Entries 92
Mean 228.2
Std Dev 0

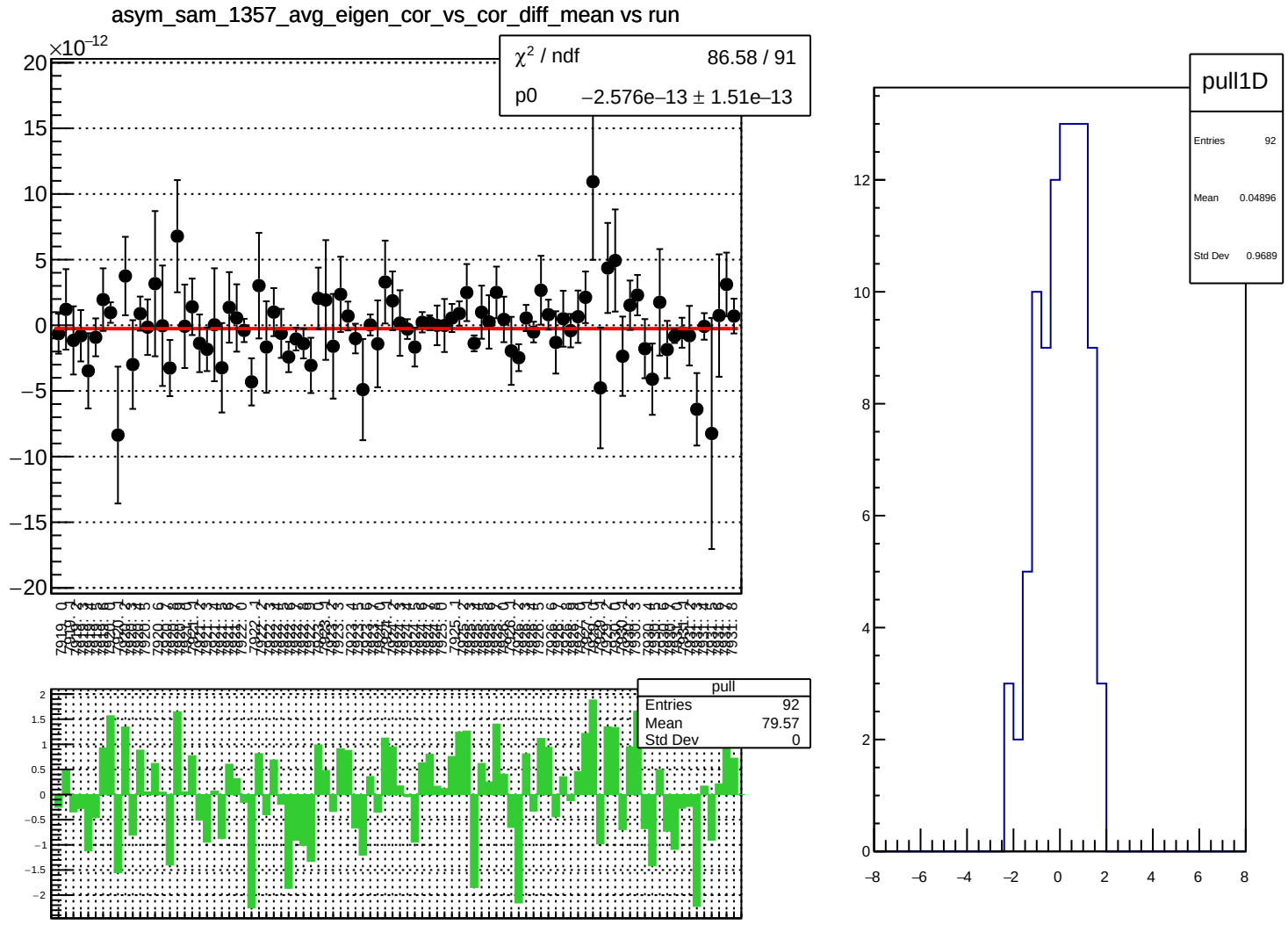

pull1D
Entries 92
Mean −0.004533
Std Dev 0.8672

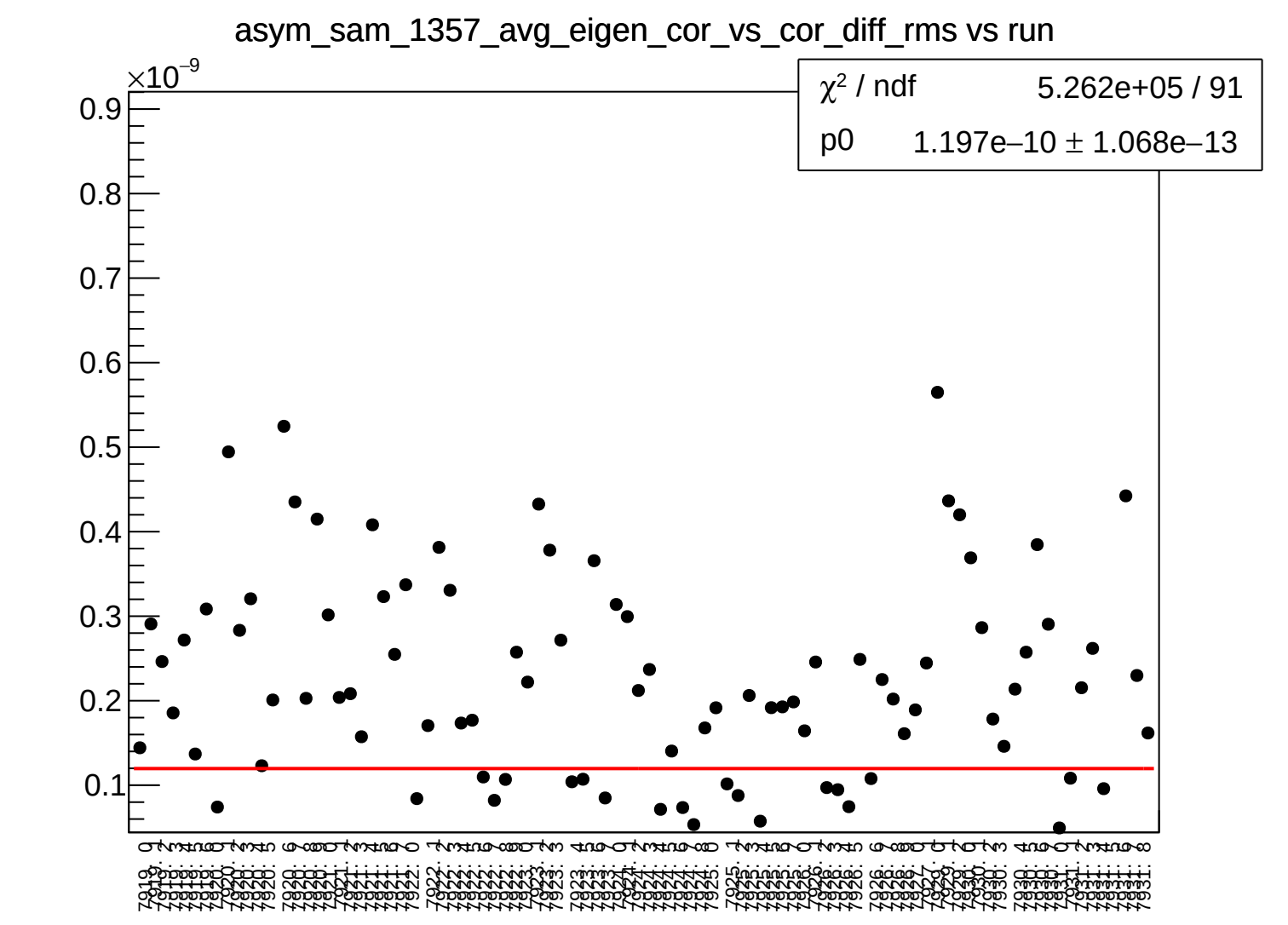

asym_sam_1357_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.719e+04 / 91
p0 36.24 ± 0.02727
55
50
45
40
35
30

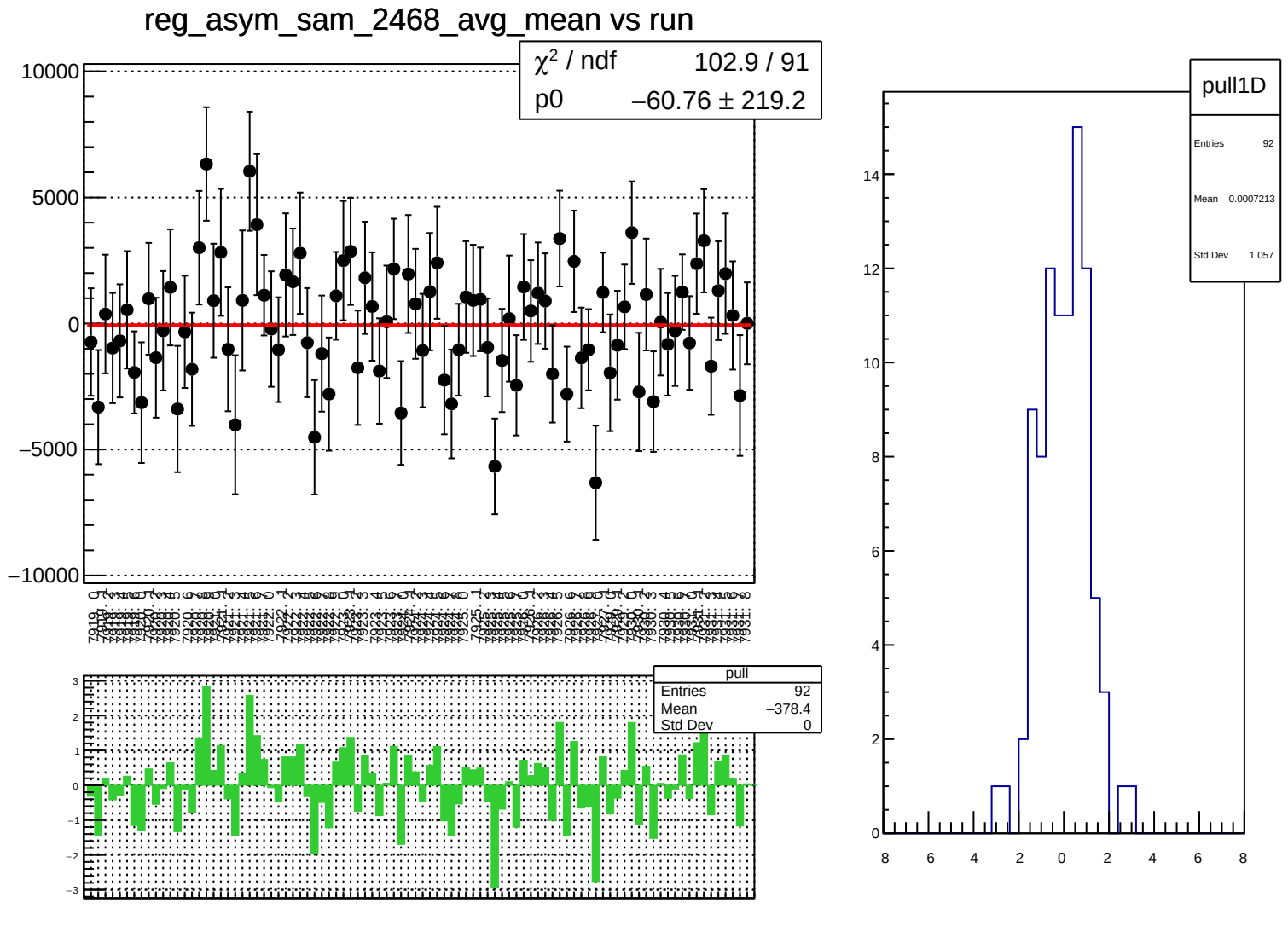

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.19 / 91
p0 0.01574 ± 0.03857
pull
Entries 92
Mean 228.2
Std Dev 0

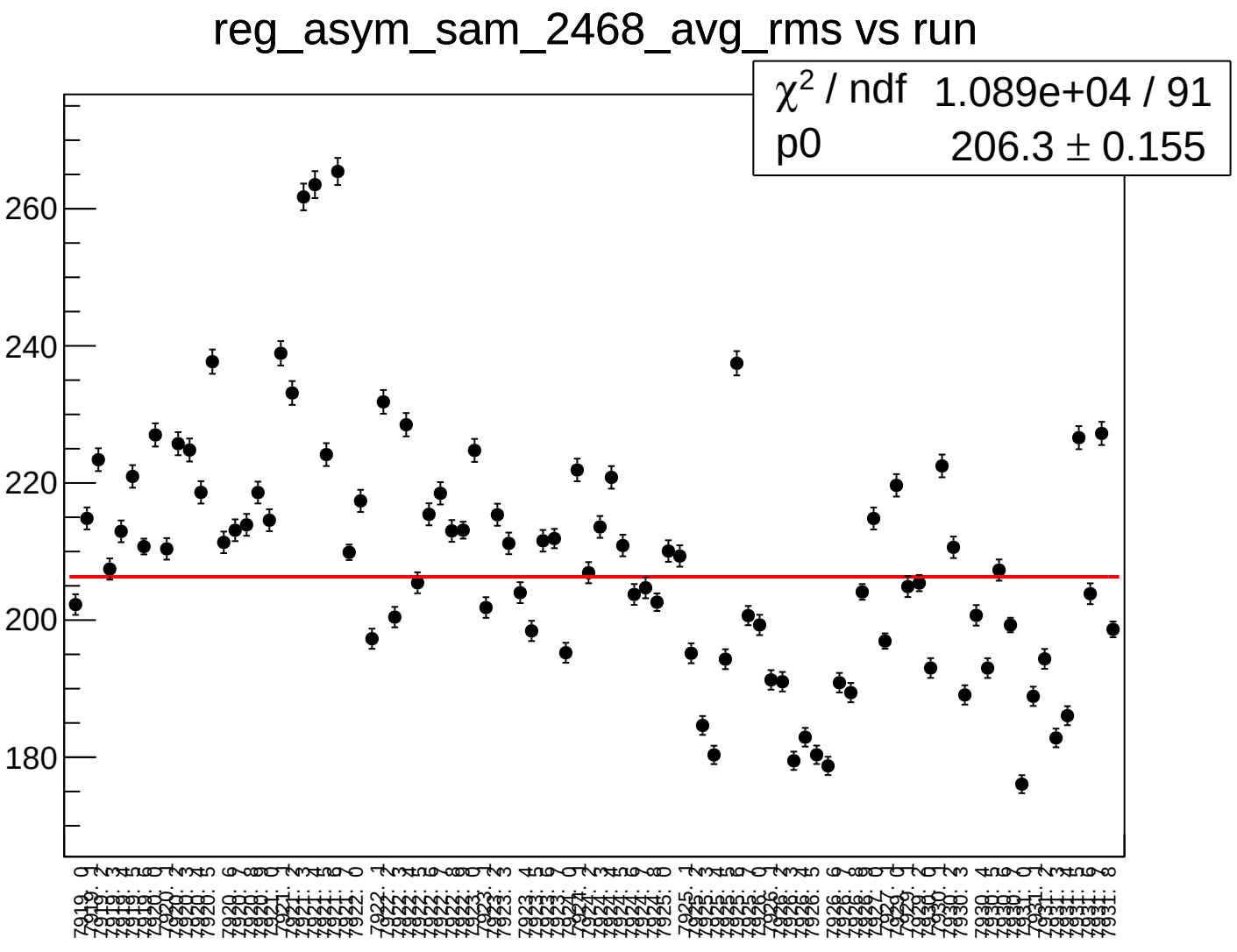

pull1D
Entries 92
Mean −0.004533
Std Dev 0.8672

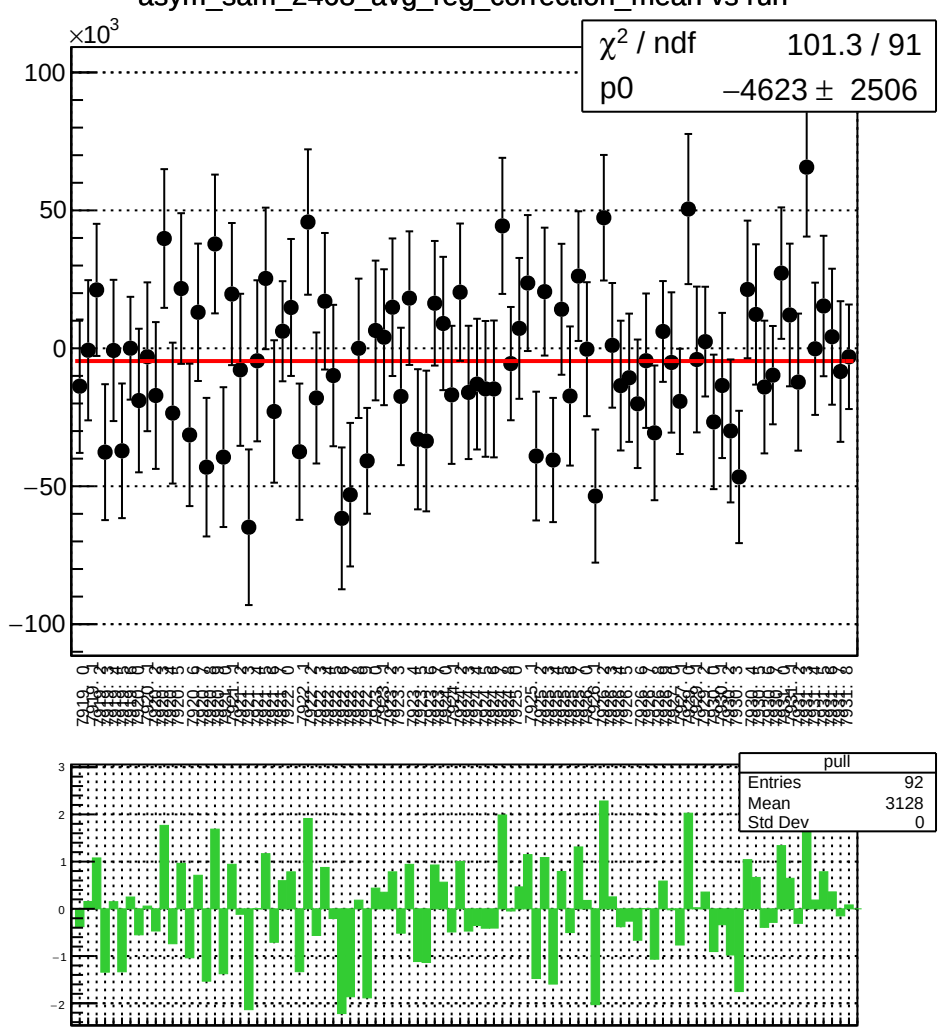

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.719e+04 / 91
p0 36.24 ± 0.02727
55
50
45
40
35
30

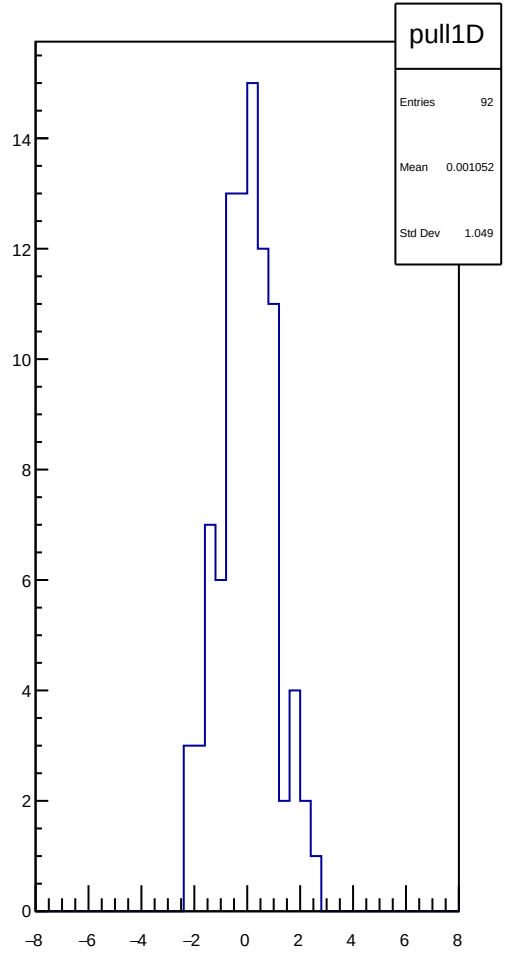

asym_sam_1357_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.58 / 91
p0 −2.576e−13 ± 1.51e−13
pull
Entries 92
Mean 79.57
Std Dev 0
pull1D
Entries 92
Mean 0.04896
Std Dev 0.9689

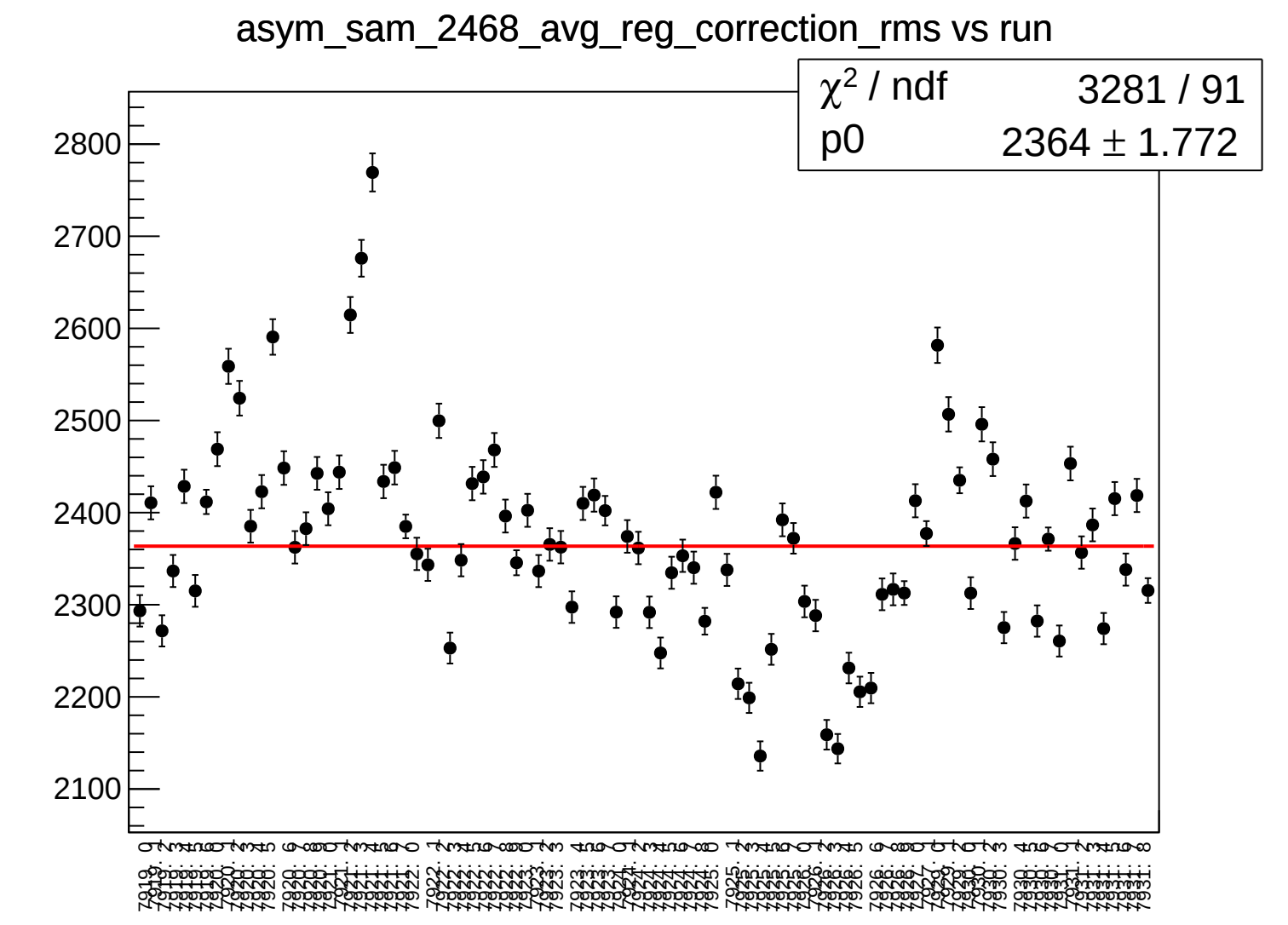

asym_sam_1357_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.262e+05 / 91
p0 1.197e−10 ± 1.068e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

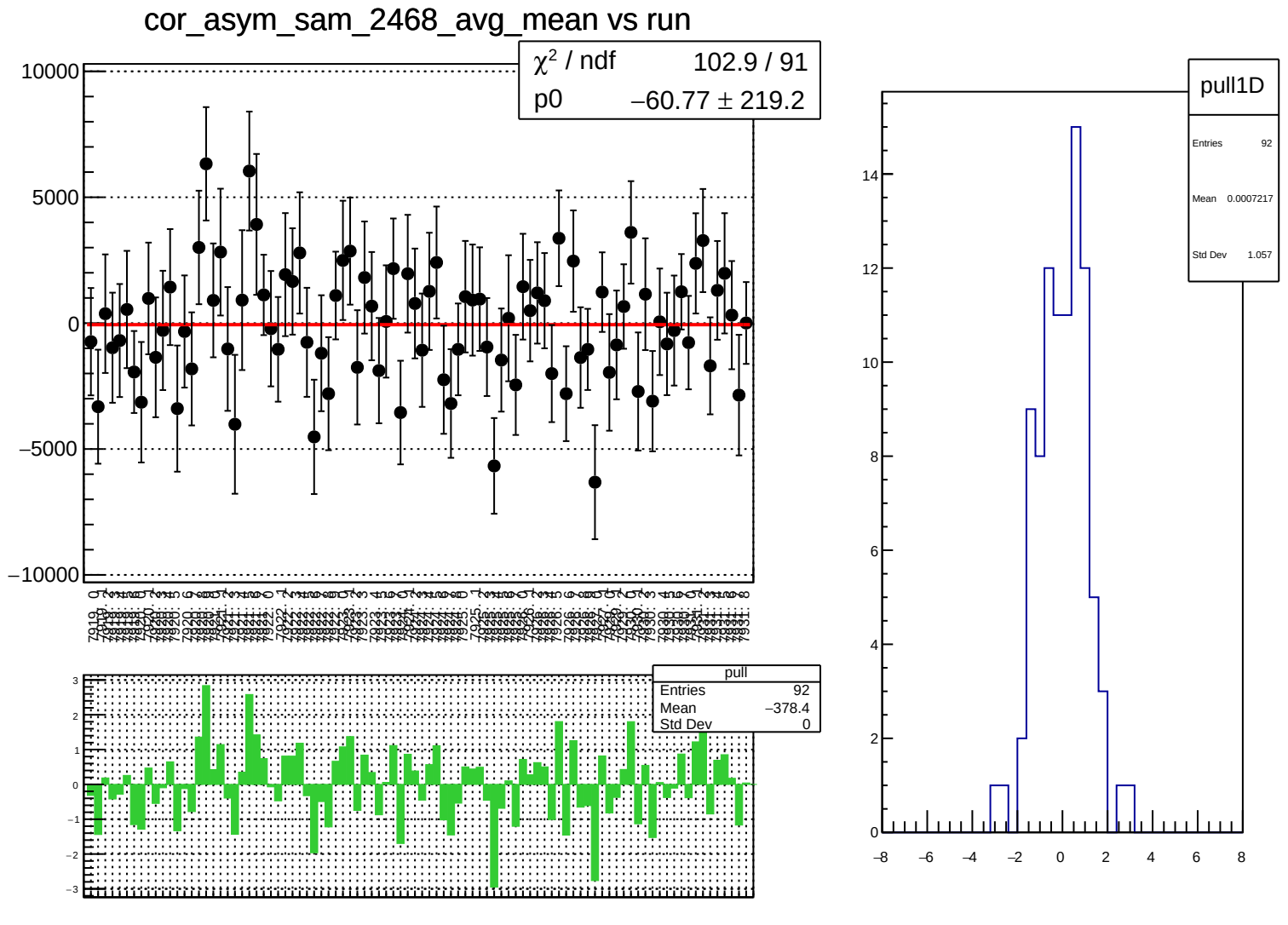

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 102.9 / 91
p0 −60.76 ± 219.2
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −378.4
Std Dev 0
pull1D
Entries 92
Mean 0.0007213
Std Dev 1.057

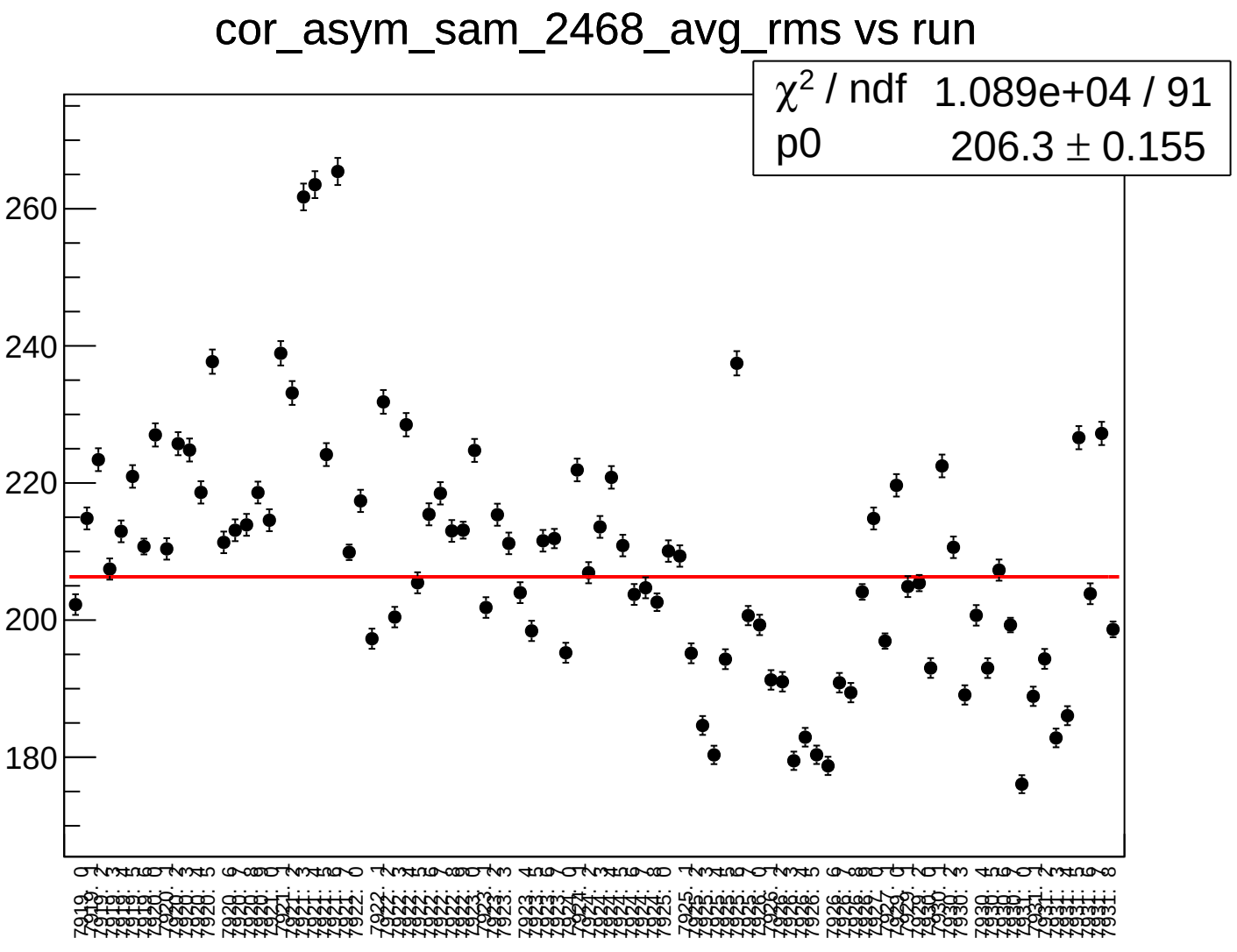

reg_asym_sam_2468_avg_rms vs run
χ² / ndf 1.089e+04 / 91
p0 206.3 ± 0.155
260
240
220
200
180

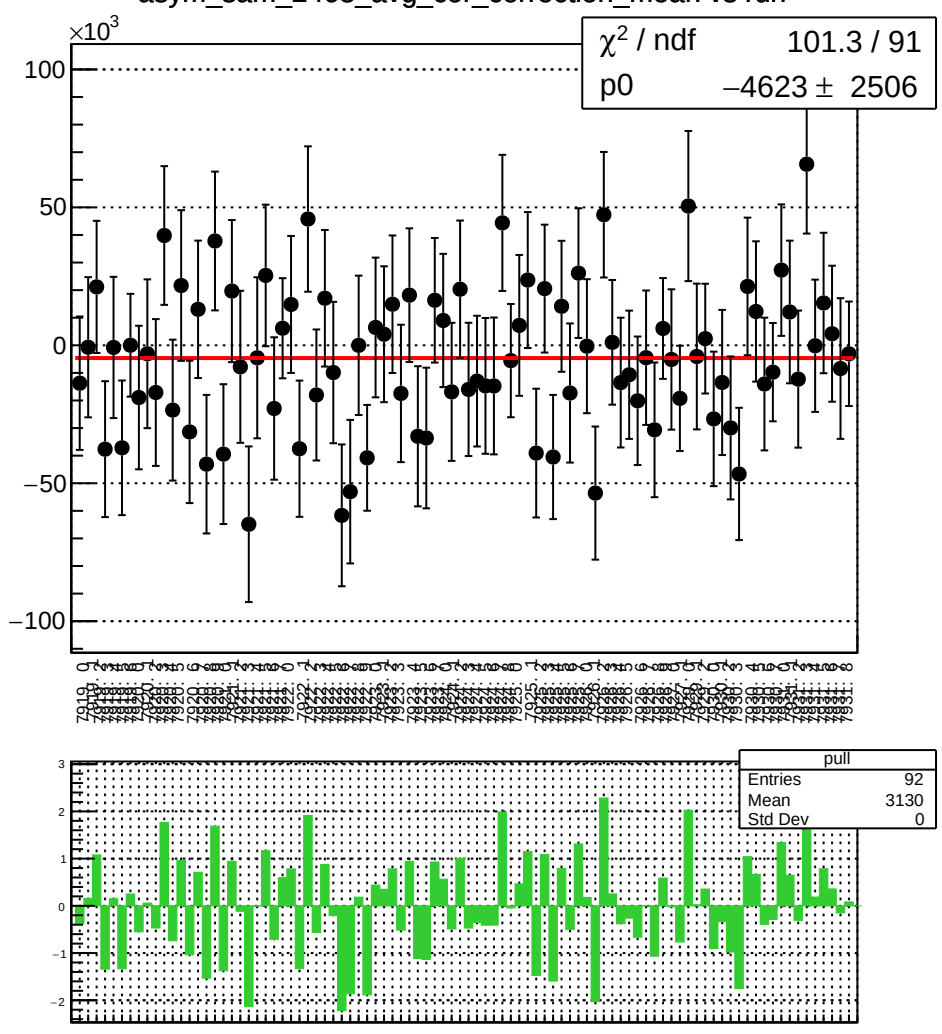

asym_sam_2468_avg_reg_correction_mean vs run
×10^3
χ² / ndf 101.3 / 91
p0 −4623 ± 2506
pull
Entries 92
Mean 3128
Std Dev 0

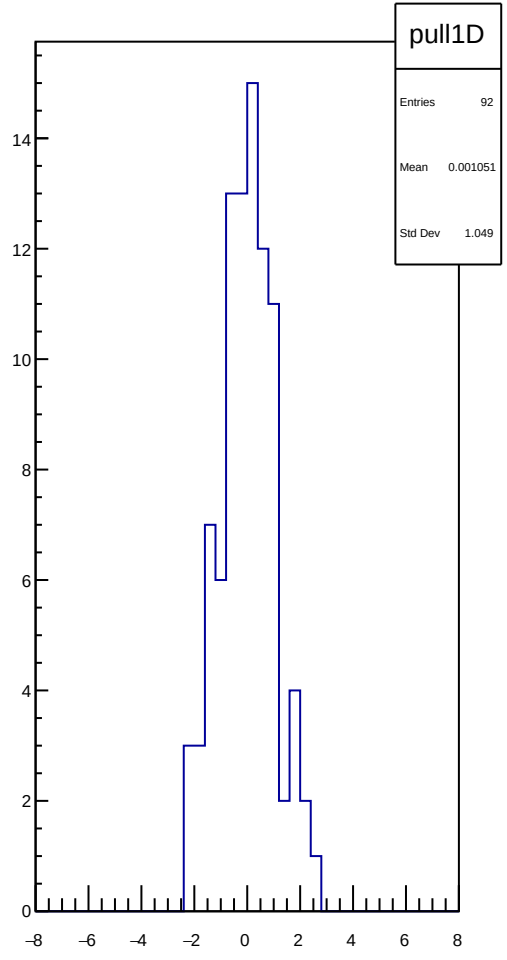

pull1D
Entries 92
Mean 0.001052
Std Dev 1.049

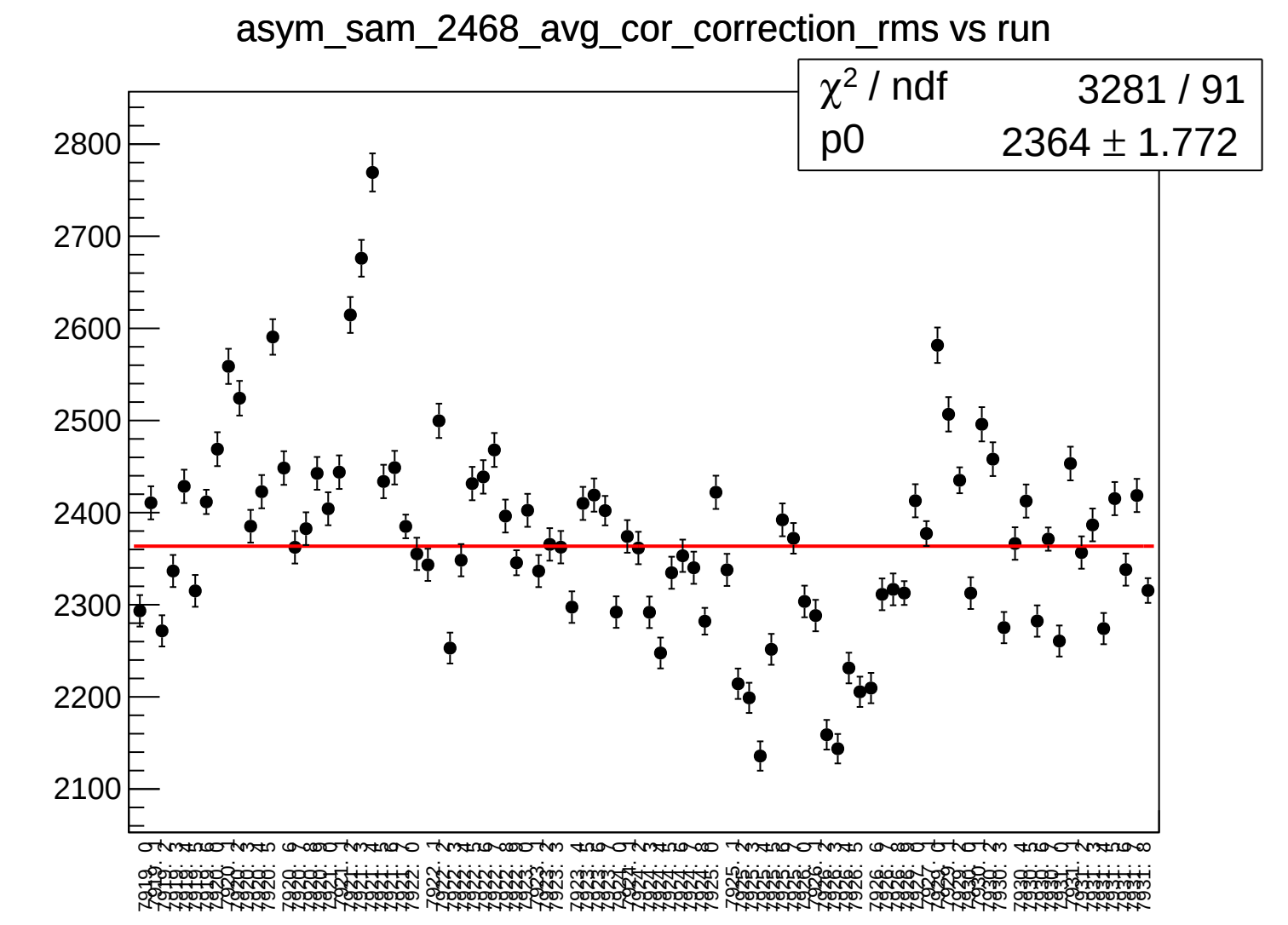

asym_sam_2468_avg_reg_correction_rms vs run
χ² / ndf 3281 / 91
p0 2364 ± 1.772
2800
2700
2600
2500
2400
2300
2200
2100

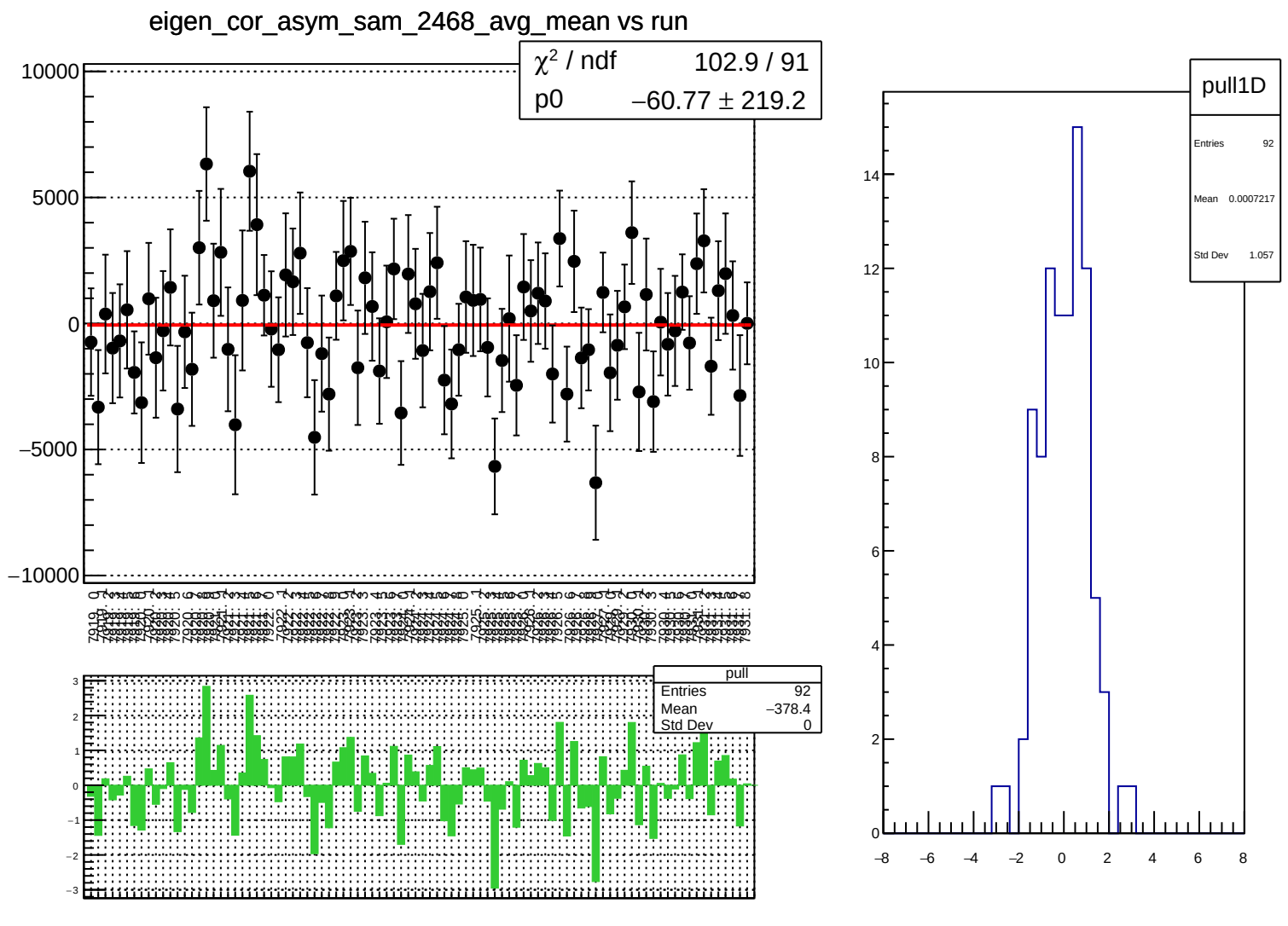

cor_asym_sam_2468_avg_mean vs run
χ² / ndf 102.9 / 91
p0 −60.77 ± 219.2
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −378.4
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean 0.0007217
Std Dev 1.057
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

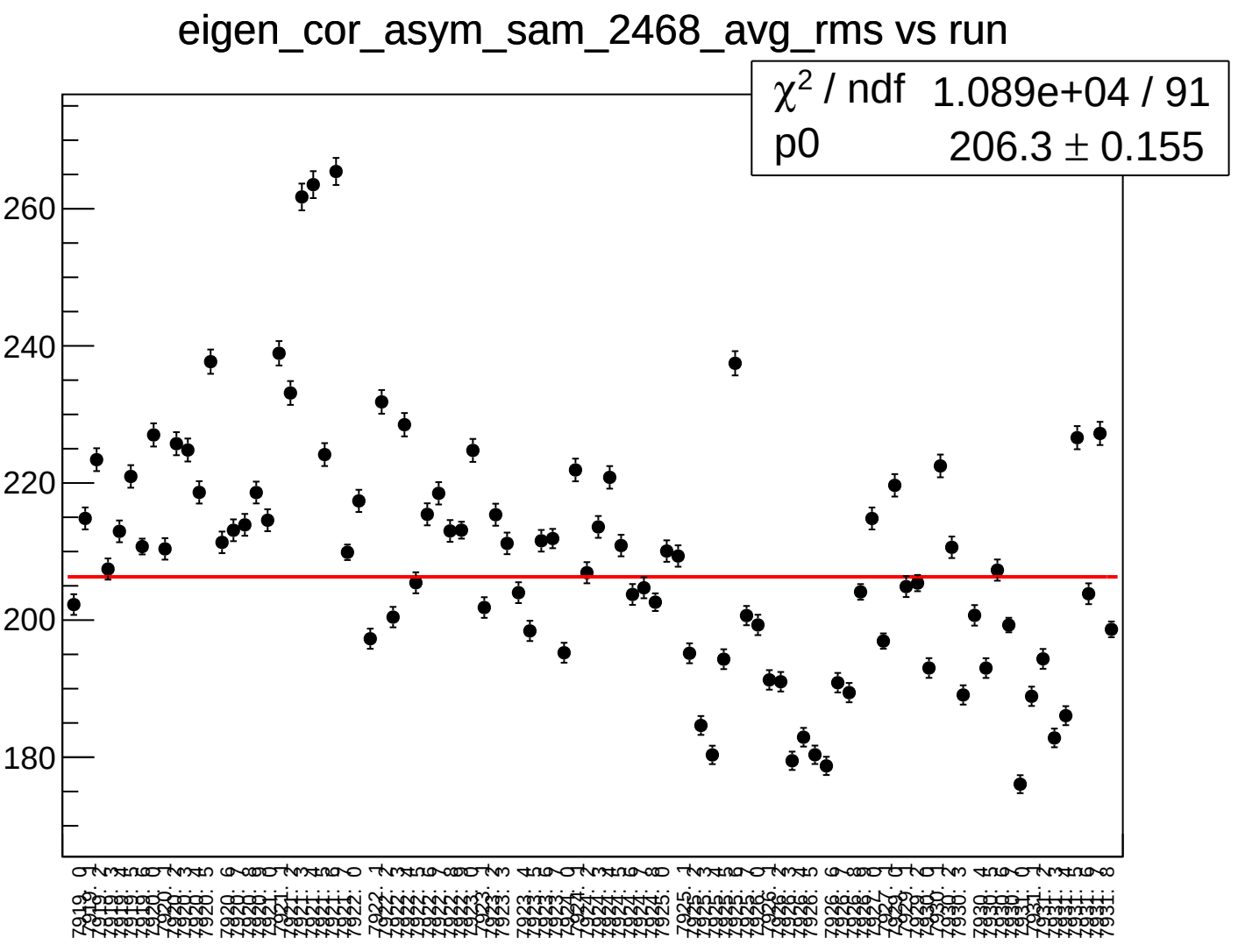

cor_asym_sam_2468_avg_rms vs run
χ² / ndf 1.089e+04 / 91
p0 206.3 ± 0.155
260
240
220
200
180

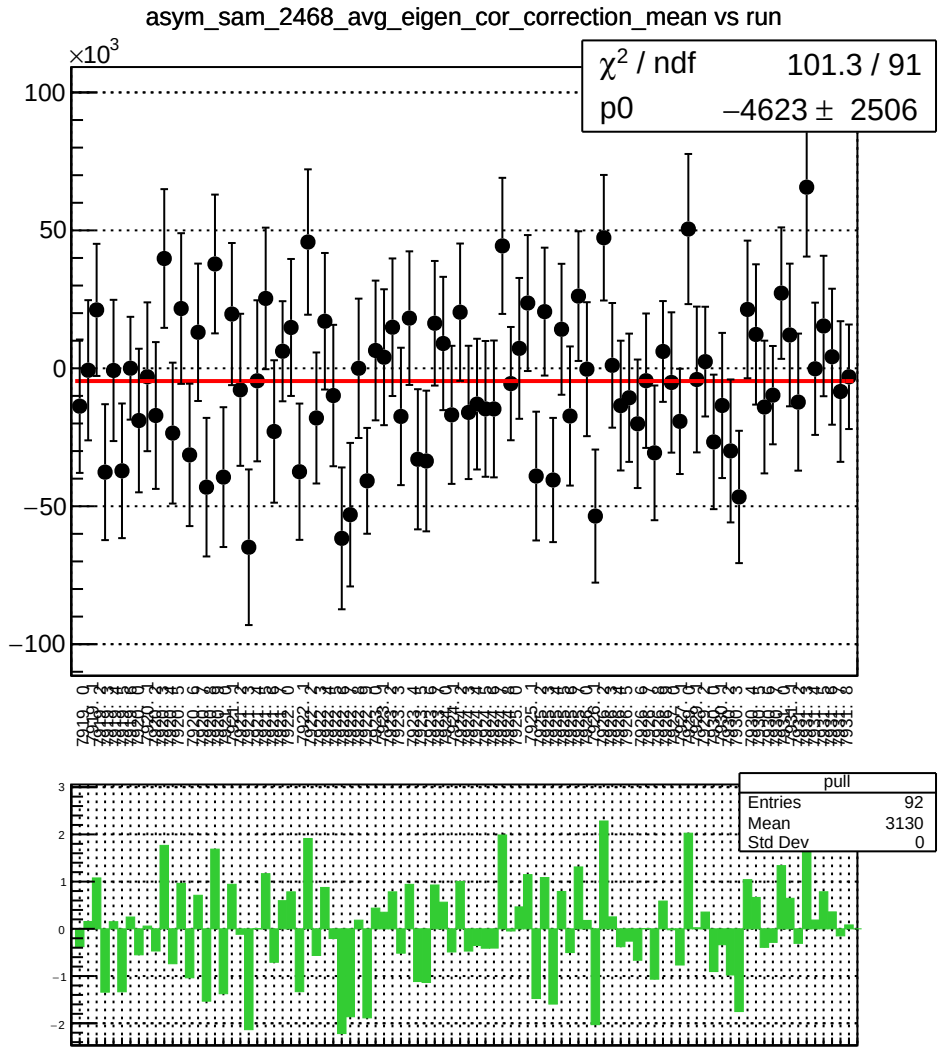

asym_sam_2468_avg_cor_correction_mean vs run
×10^3
χ² / ndf 101.3 / 91
p0 −4623 ± 2506
100
50
0
−50
−100
pull
Entries 92
Mean 3130
Std Dev 0
3
2
1
0
−1
−2

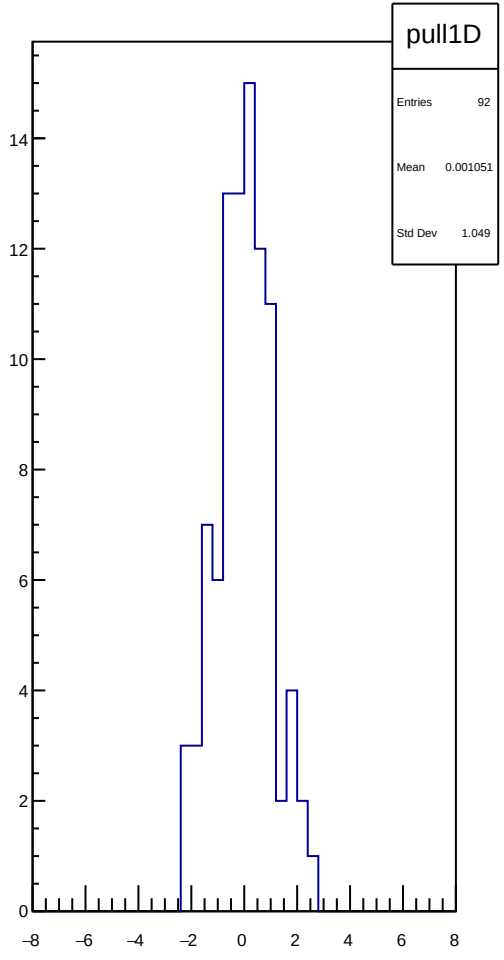

pull1D
Entries 92
Mean 0.001051
Std Dev 1.049
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

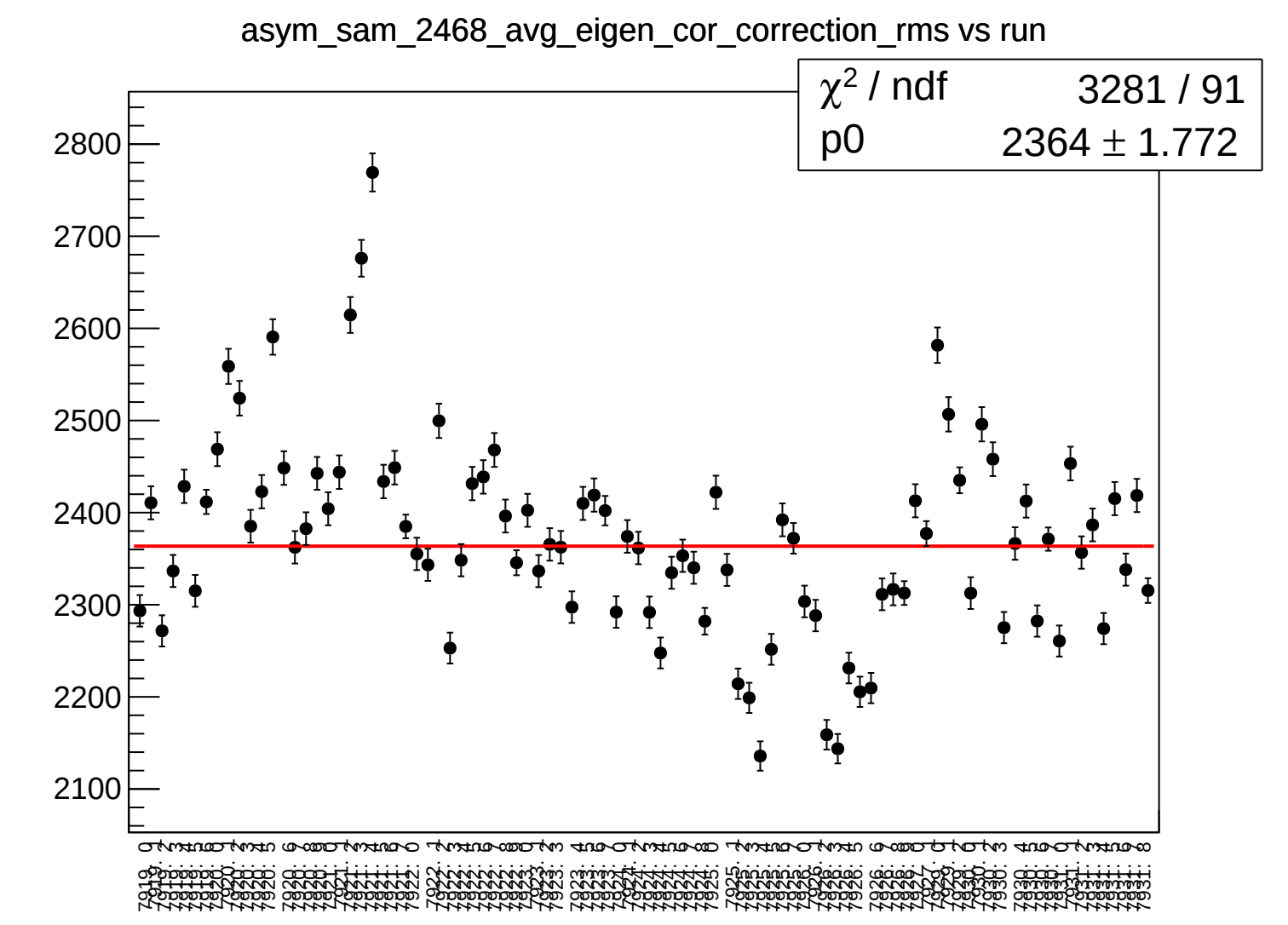

asym_sam_2468_avg_cor_correction_rms vs run
χ² / ndf 3281 / 91
p0 2364 ± 1.772
2800
2700
2600
2500
2400
2300
2200
2100

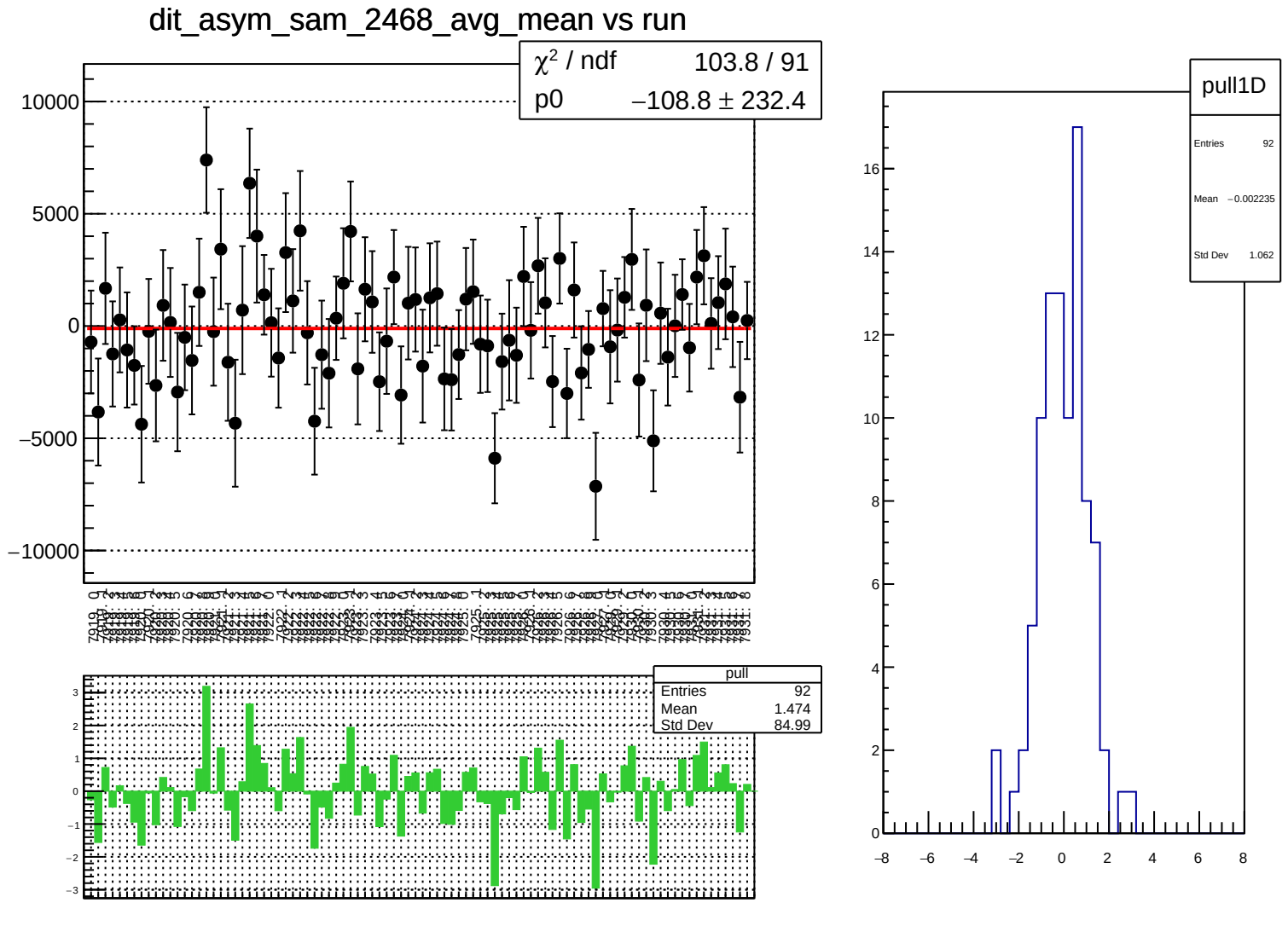

eigen_cor_asym_sam_2468_avg_mean vs run
χ² / ndf 102.9 / 91
p0 −60.77 ± 219.2
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −378.4
Std Dev 0
pull1D
Entries 92
Mean 0.0007217
Std Dev 1.057

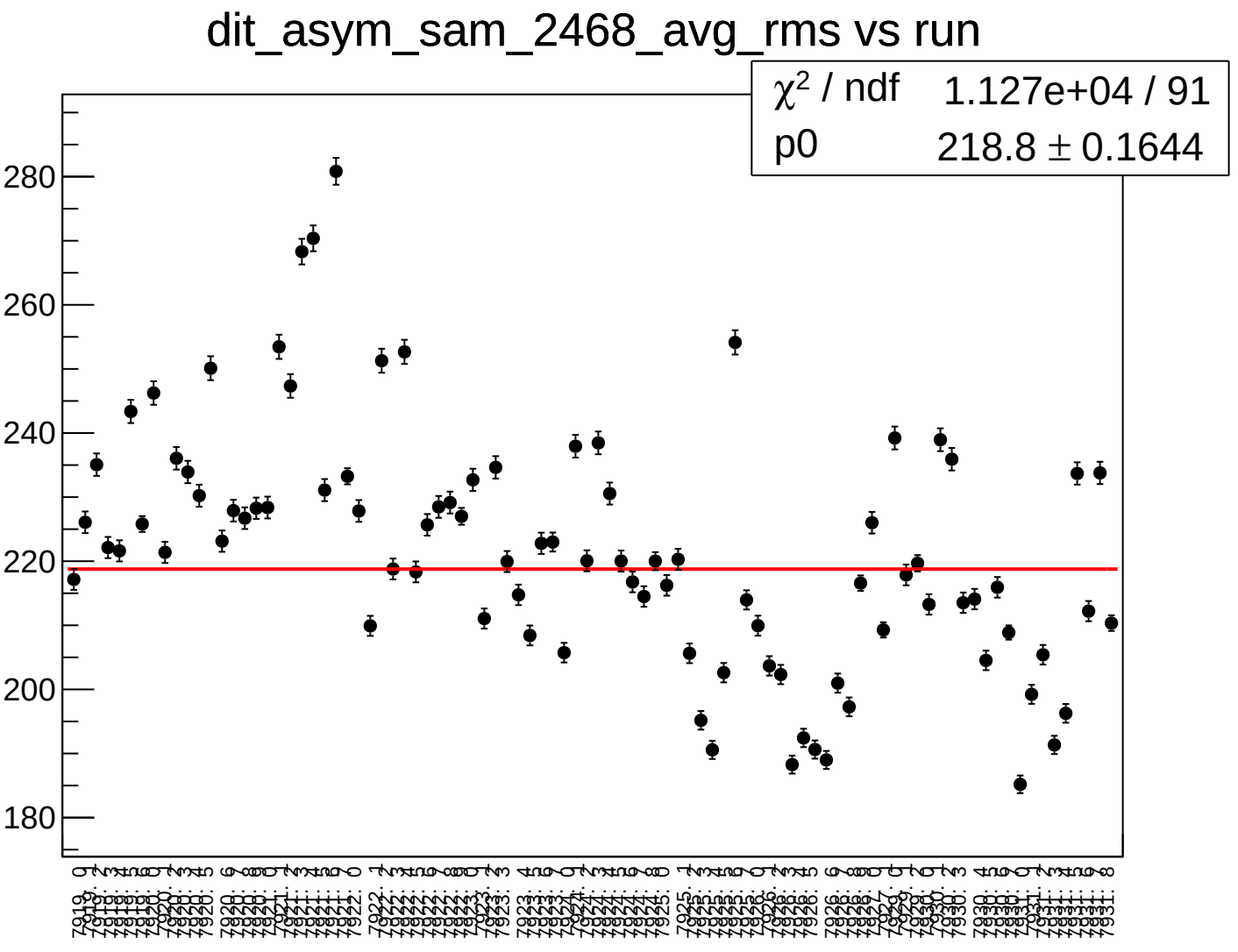

eigen_cor_asym_sam_2468_avg_rms vs run
χ² / ndf 1.089e+04 / 91
p0 206.3 ± 0.155
260
240
220
200
180

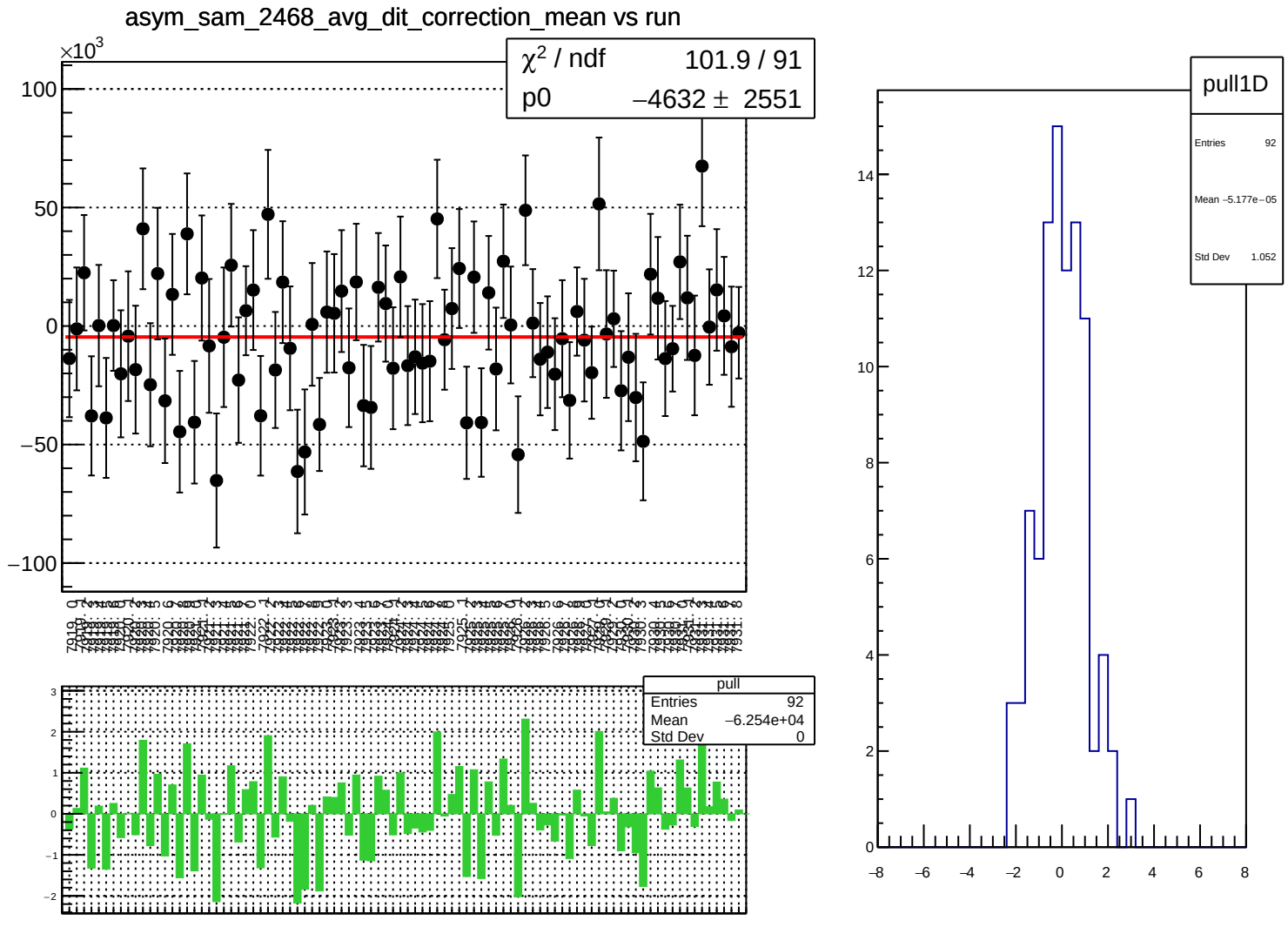

asym_sam_2468_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 101.3 / 91
p0 −4623 ± 2506
pull
Entries 92
Mean 3130
Std Dev 0

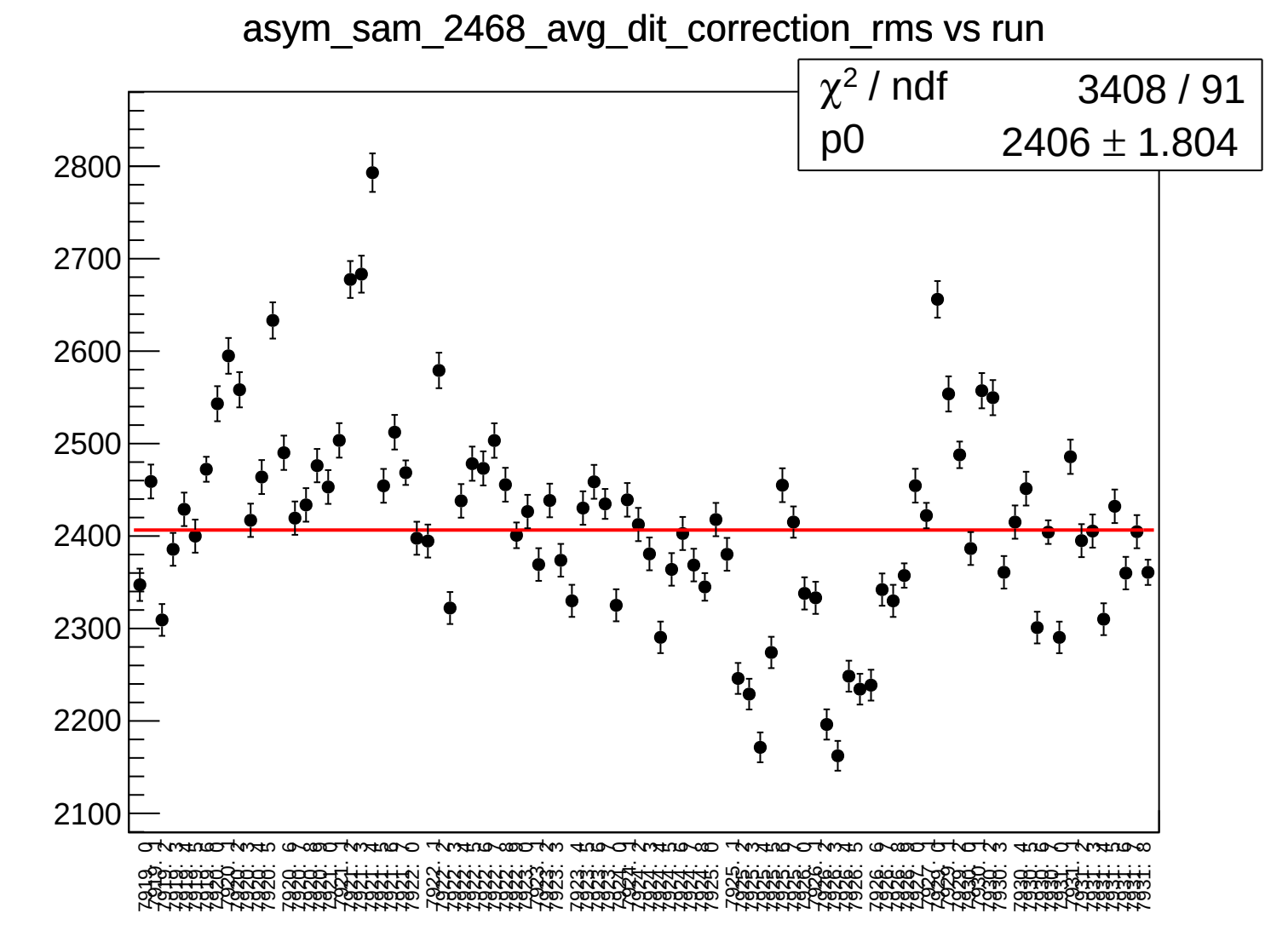

pull1D
Entries 92
Mean 0.001051
Std Dev 1.049

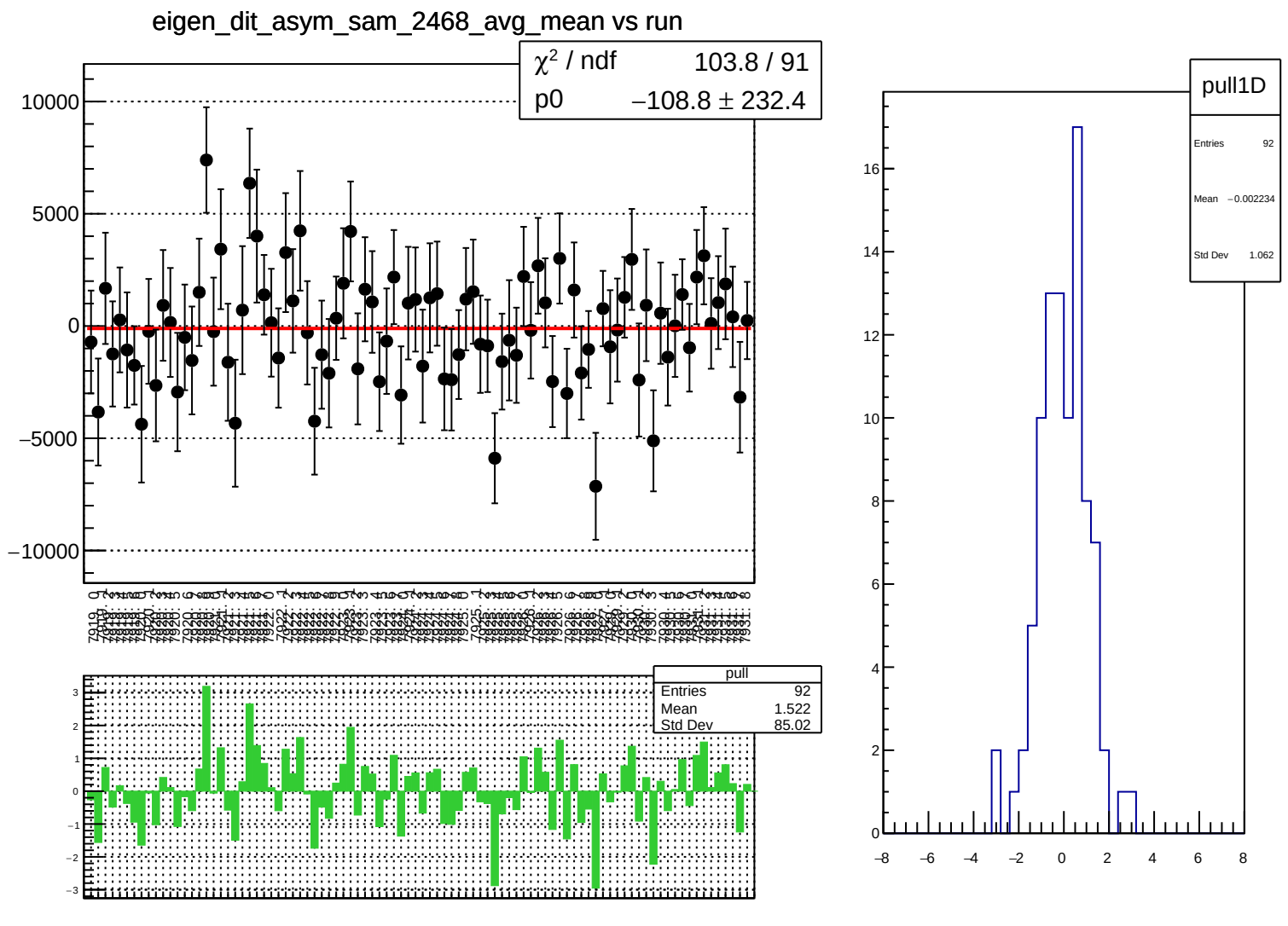

asym_sam_2468_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 3281 / 91
p0 2364 ± 1.772
2800
2700
2600
2500
2400
2300
2200
2100

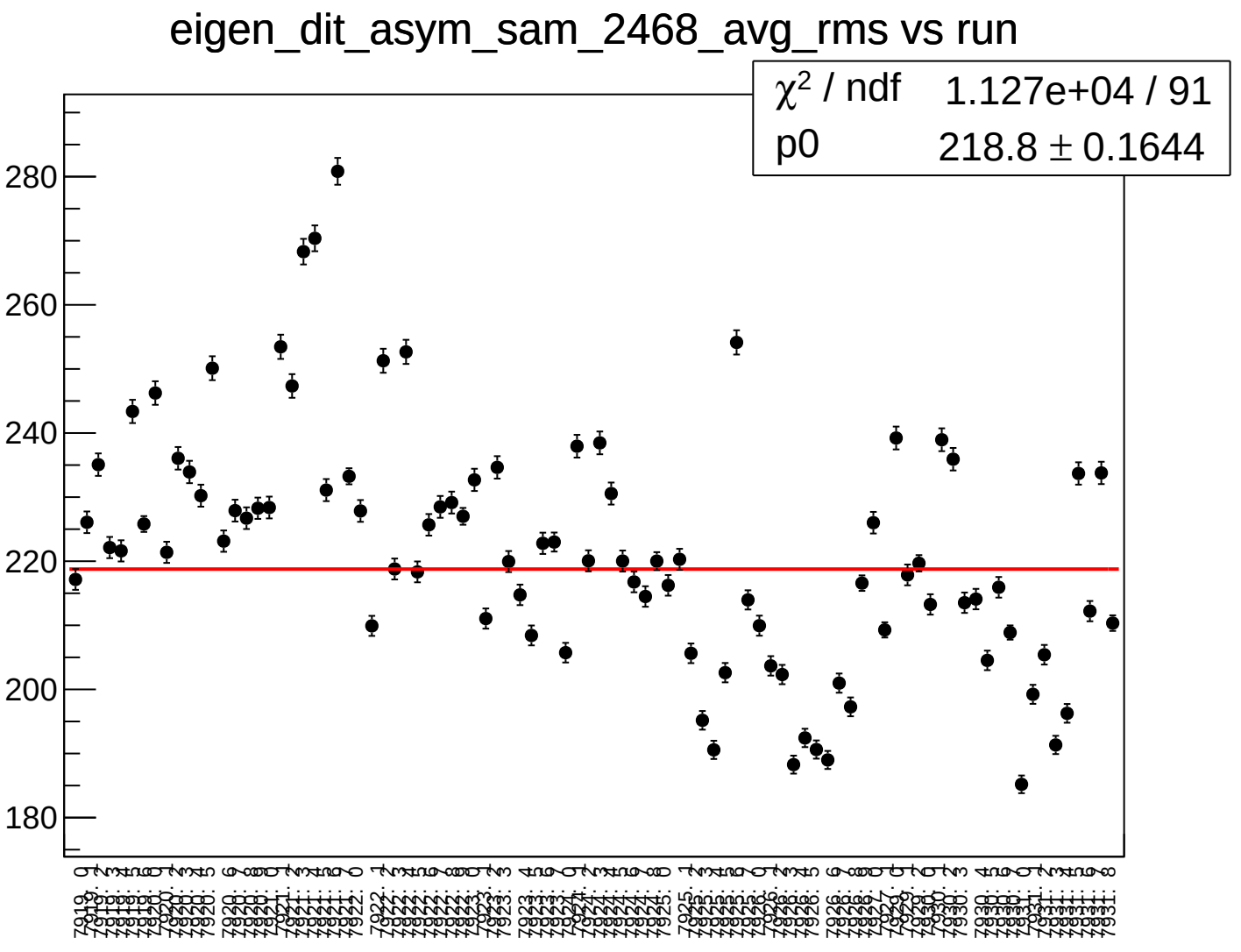

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 103.8 / 91
p0 −108.8 ± 232.4
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 1.474
Std Dev 84.99
3
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.002235
Std Dev 1.062
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

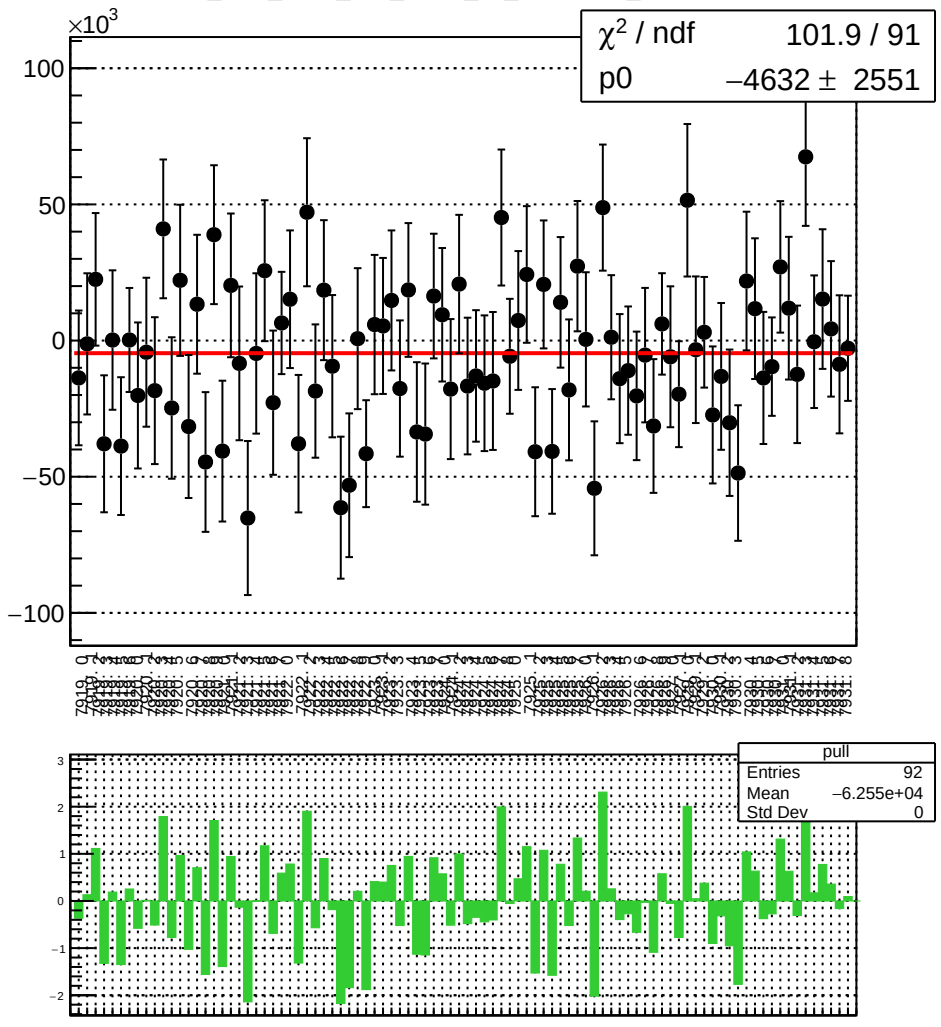

dit_asym_sam_2468_avg_rms vs run
χ^2 / ndf 1.127e+04 / 91
p0 218.8 ± 0.1644
280
260
240
220
200
180

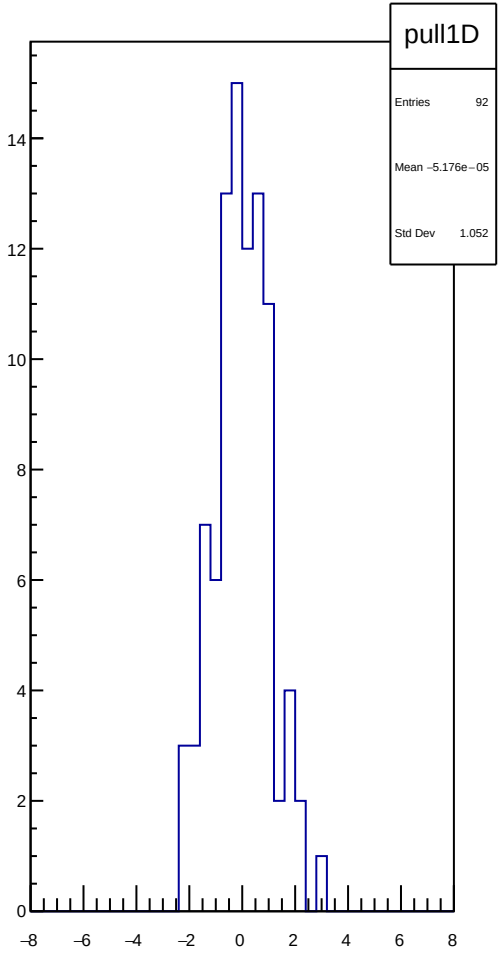

asym_sam_2468_avg_dit_correction_mean vs run
×10^3
χ² / ndf 101.9 / 91
p0 −4632 ± 2551
100
50
0
−50
−100
pull
Entries 92
Mean −6.254e+04
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean −5.177e−05
Std Dev 1.052
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

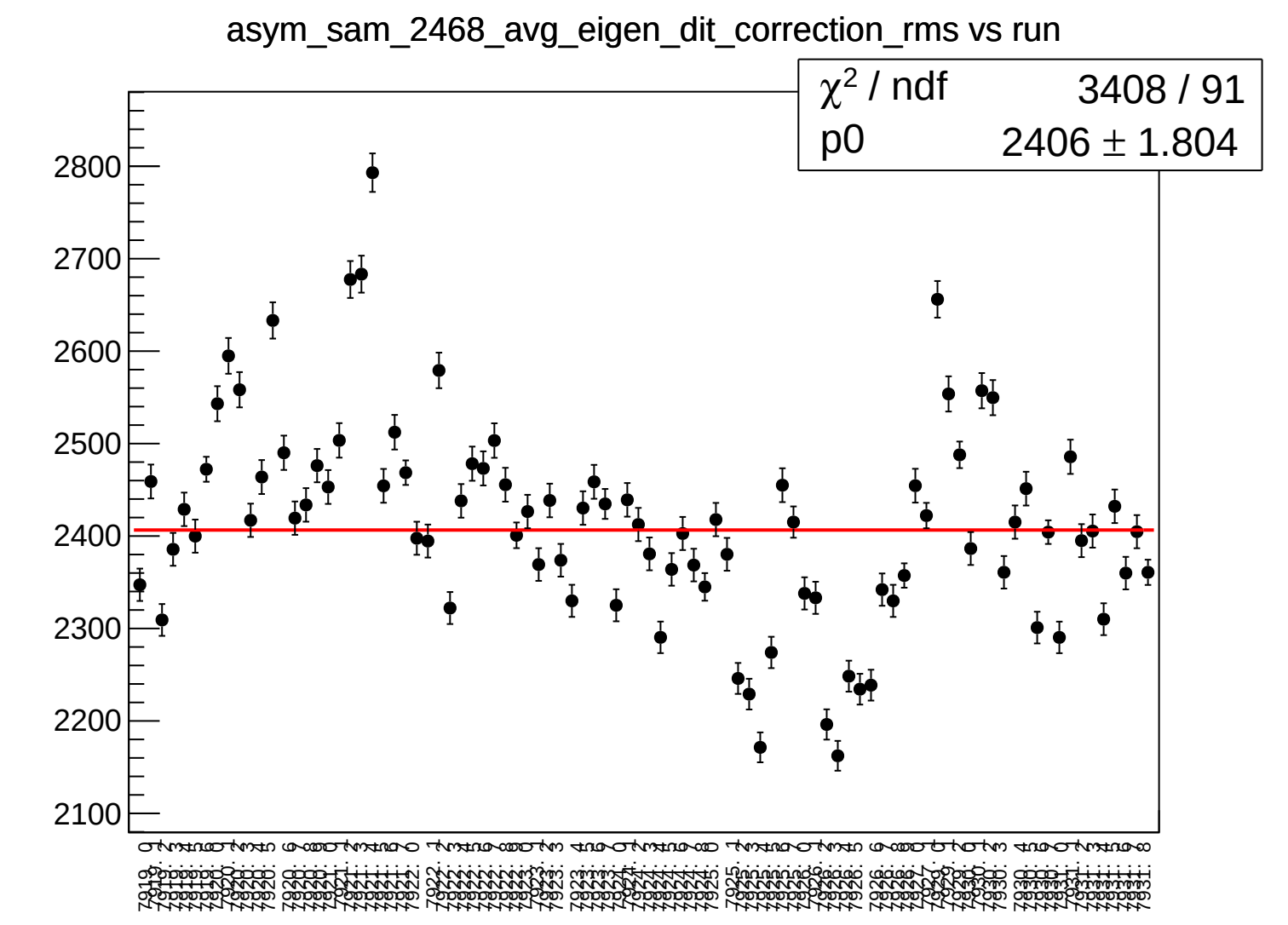

asym_sam_2468_avg_dit_correction_rms vs run
χ² / ndf 3408 / 91
p0 2406 ± 1.804
2800
2700
2600
2500
2400
2300
2200
2100

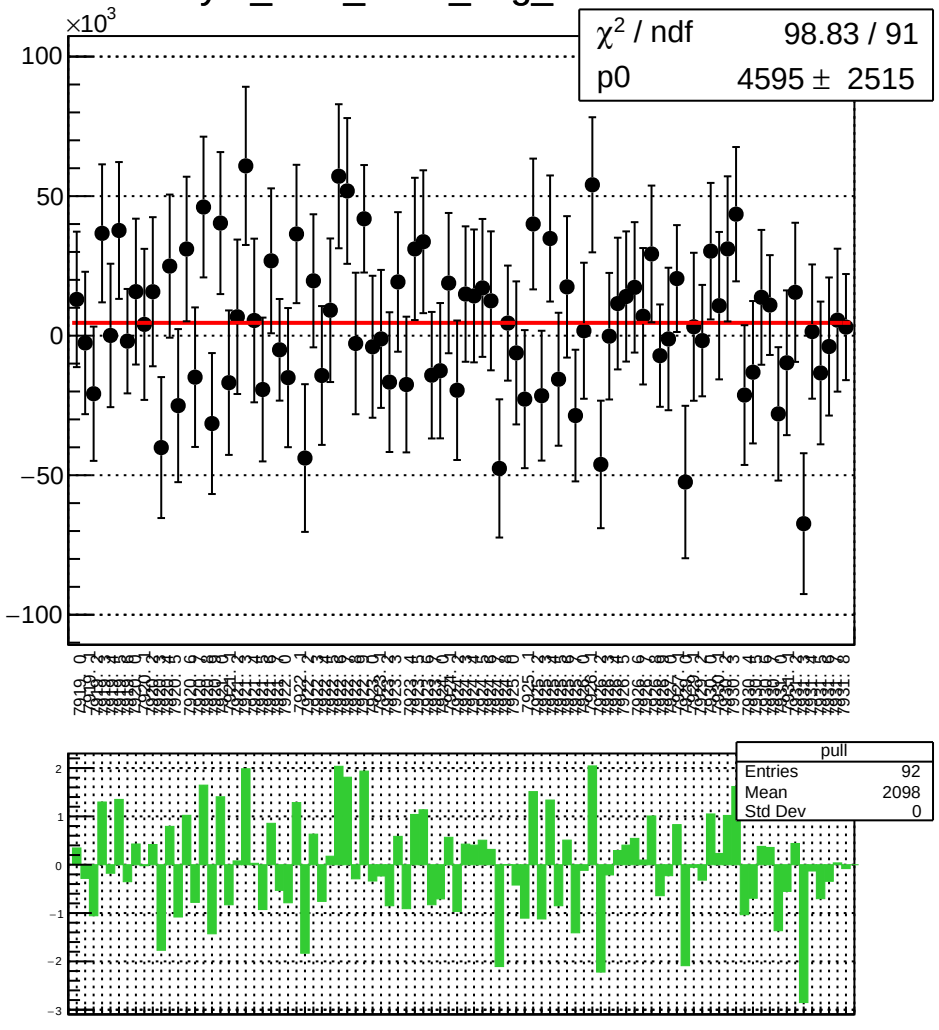

eigen_dit_asym_sam_2468_avg_mean vs run
χ^2 / ndf 103.8 / 91
p0 −108.8 ± 232.4
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 1.522
Std Dev 85.02
pull1D
Entries 92
Mean −0.002234
Std Dev 1.062

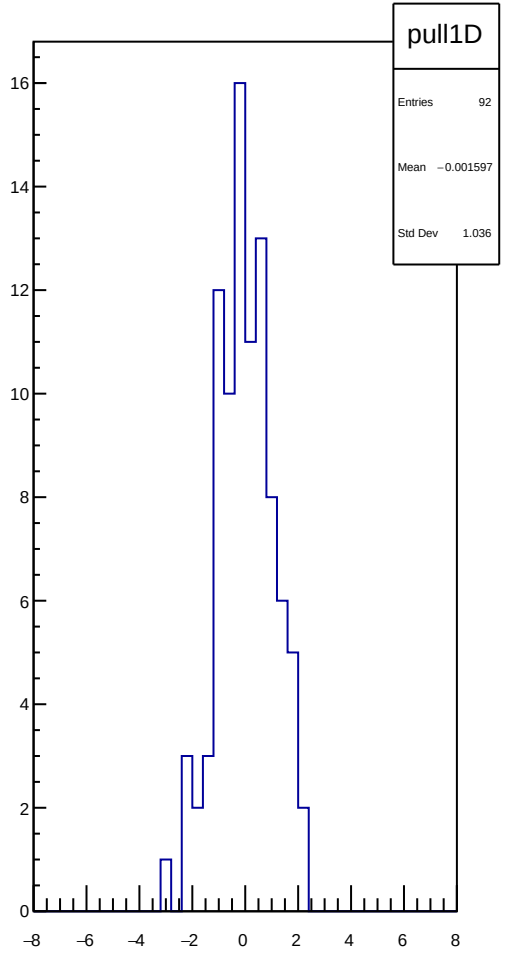

eigen_dit_asym_sam_2468_avg_rms vs run
χ² / ndf 1.127e+04 / 91
p0 218.8 ± 0.1644
280
260
240
220
200
180

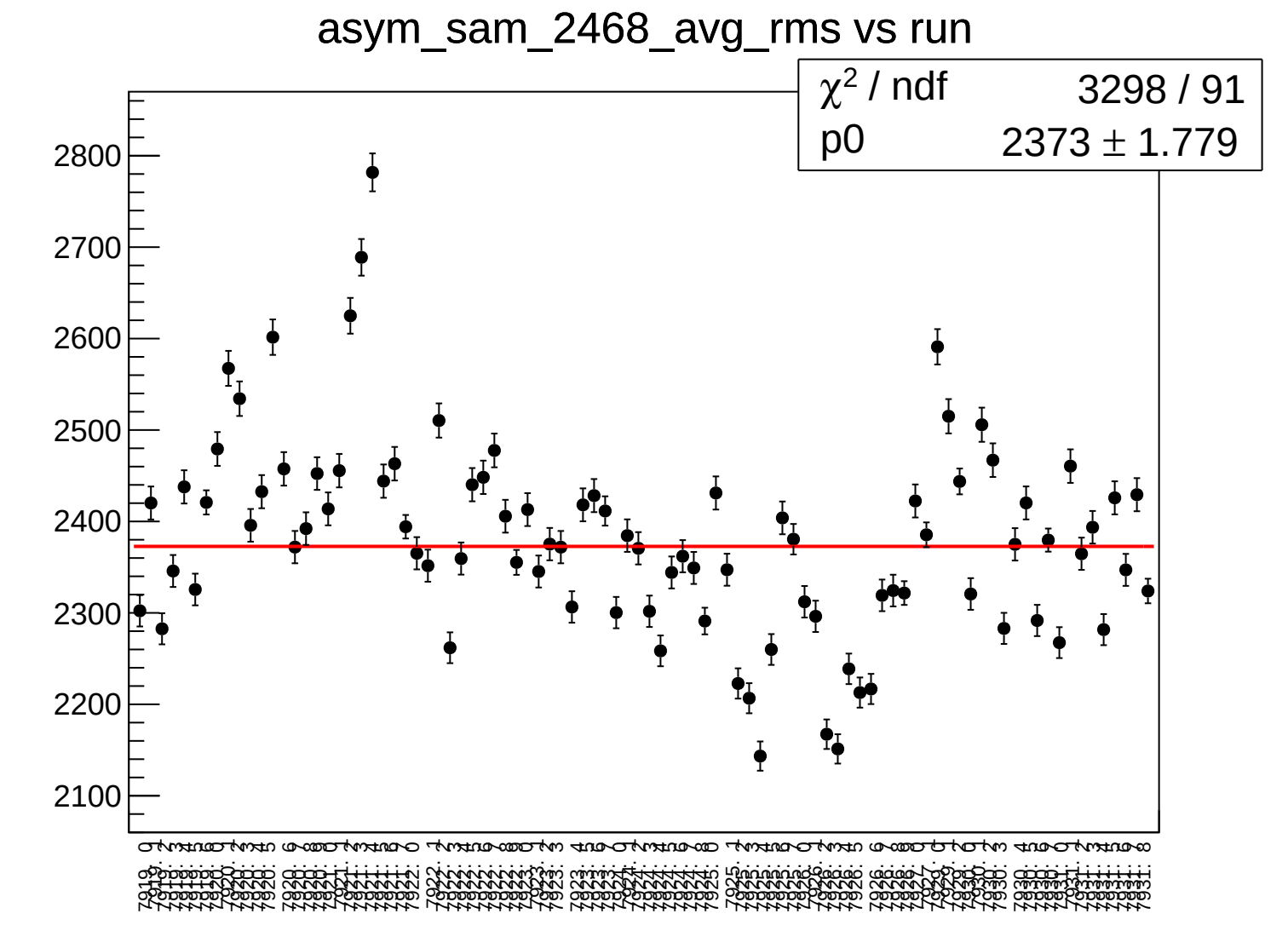

asym_sam_2468_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 101.9 / 91
p0 −4632 ± 2551
100
50
0
−50
−100
pull
Entries 92
Mean −6.255e+04
Std Dev 0
3
2
1
0
−1
−2

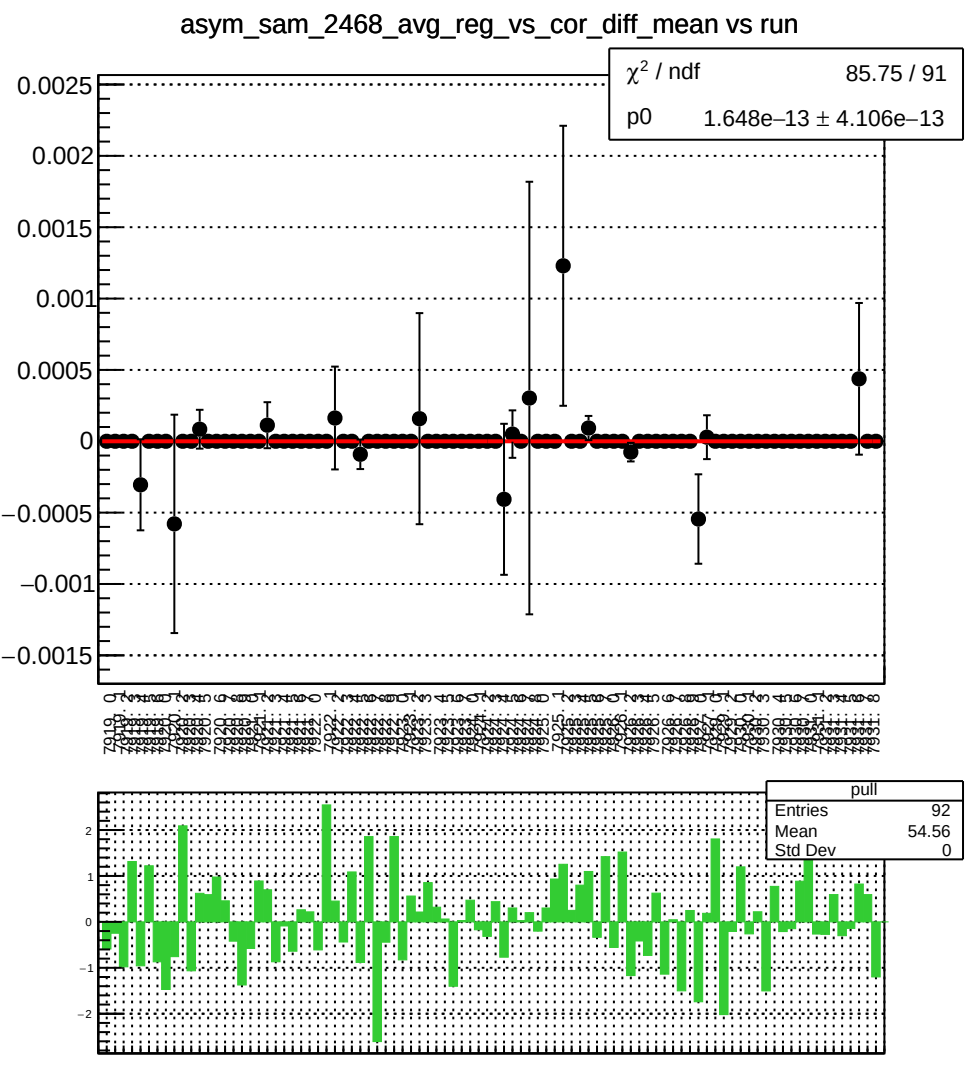

pull1D
Entries 92
Mean −5.176e−05
Std Dev 1.052
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

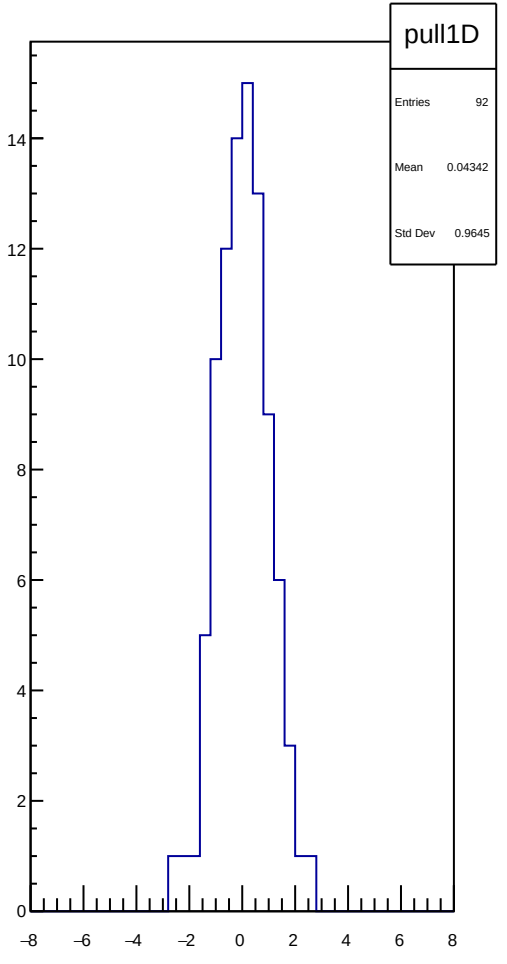

asym_sam_2468_avg_eigen_dit_correction_rms vs run
χ² / ndf 3408 / 91
p0 2406 ± 1.804
2800
2700
2600
2500
2400
2300
2200
2100

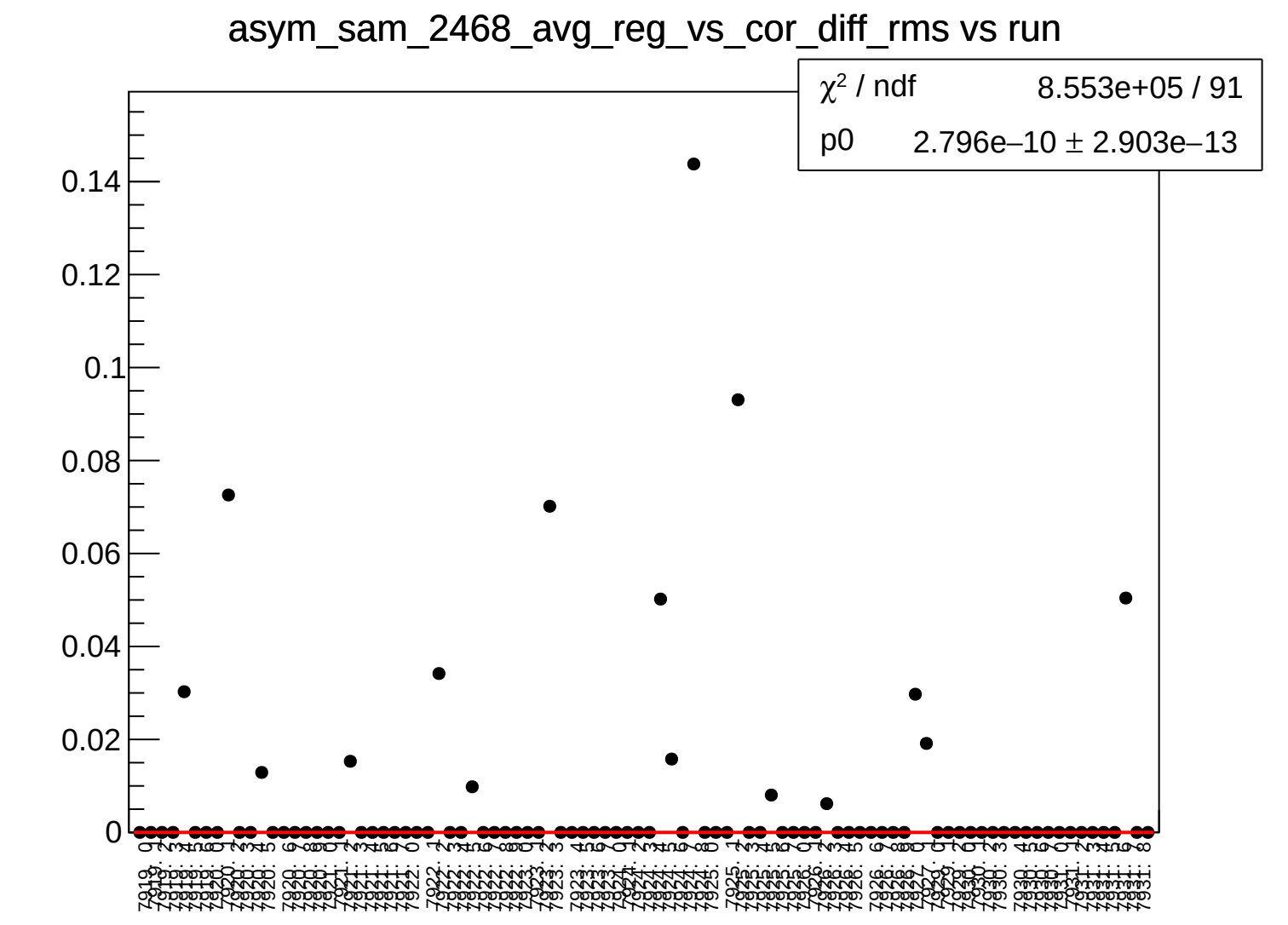

asym_sam_2468_avg_mean vs run
×10^3
χ² / ndf 98.83 / 91
p0 4595 ± 2515
100
50
0
−50
−100
pull
Entries 92
Mean 2098
Std Dev 0
2
1
0
−1
−2
−3

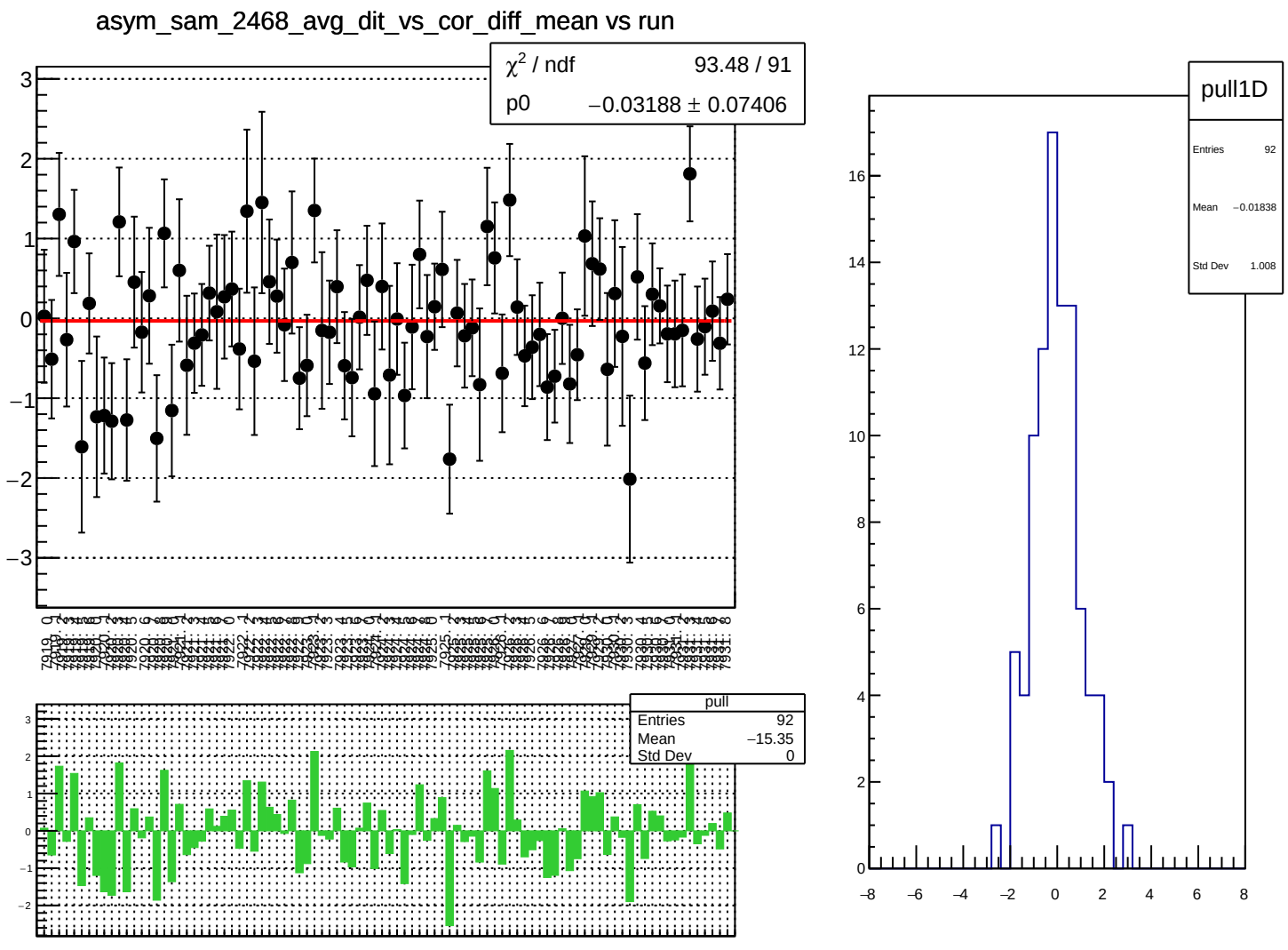

pull1D
Entries 92
Mean −0.001597
Std Dev 1.036
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

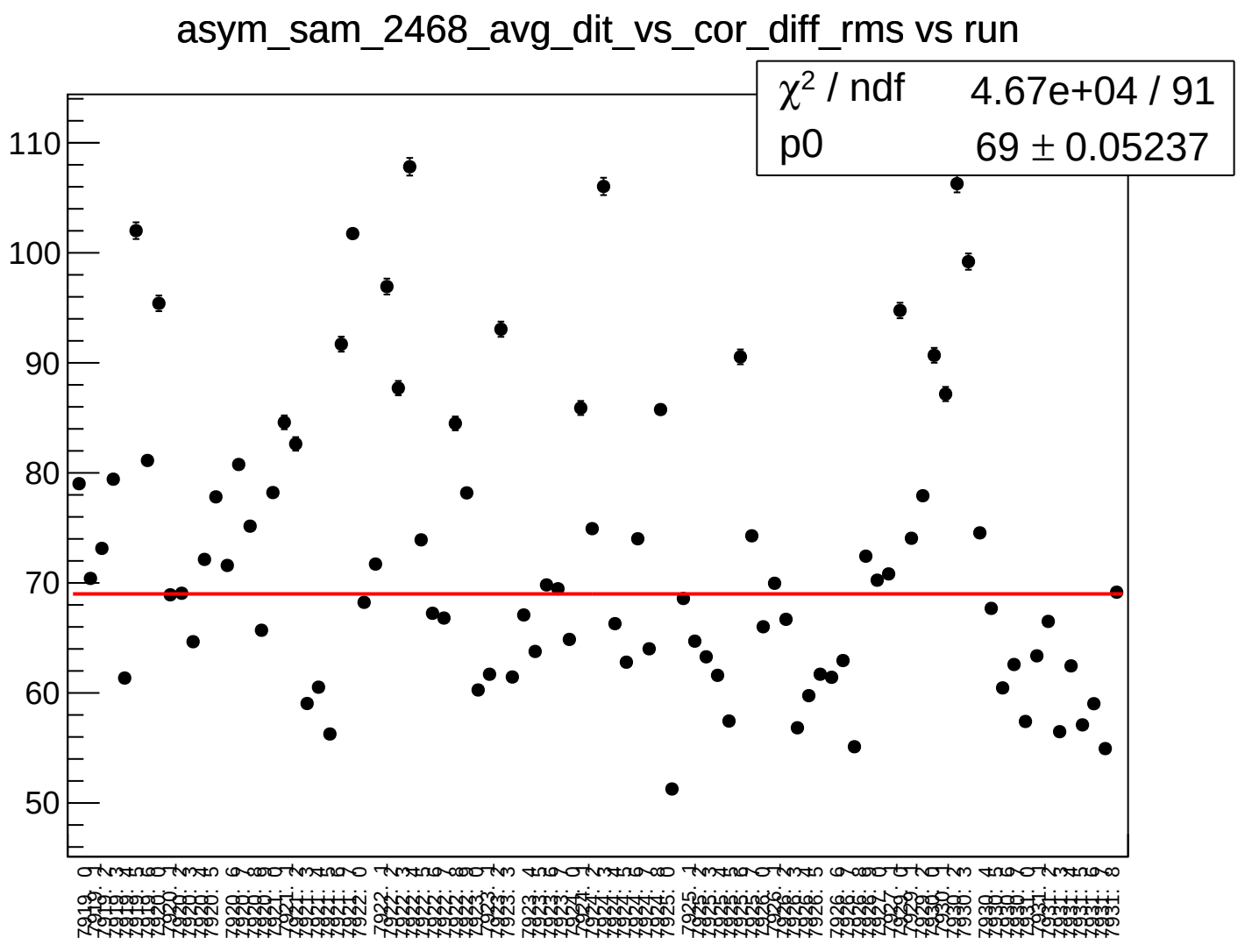

asym_sam_2468_avg_rms vs run
χ^2 / ndf 3298 / 91
p0 2373 ± 1.779
2800
2700
2600
2500
2400
2300
2200
2100

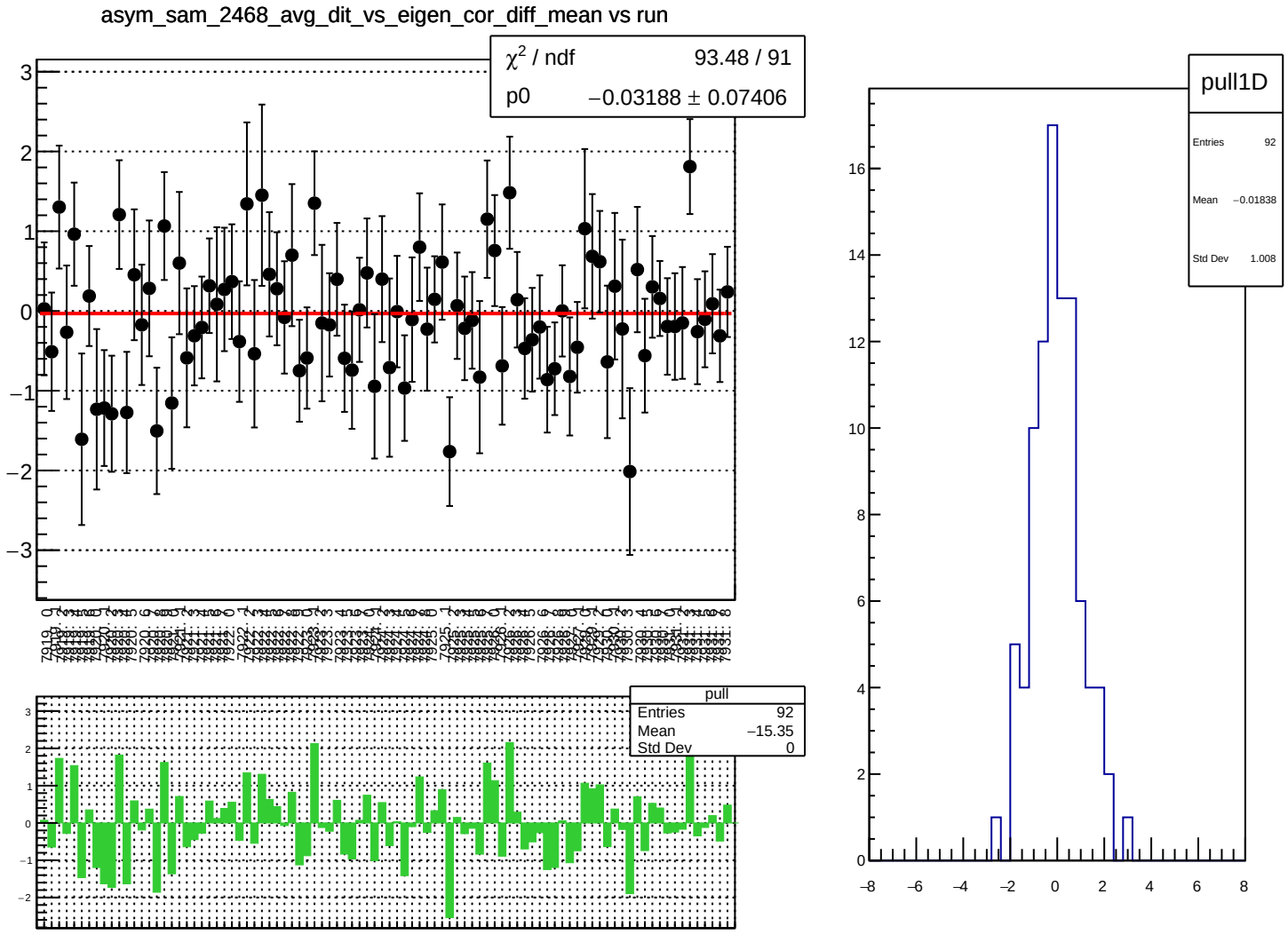

asym_sam_2468_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 85.75 / 91
p0 1.648e−13 ± 4.106e−13
0.0025
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 92
Mean 54.56
Std Dev 0
2
1
0
−1
−2

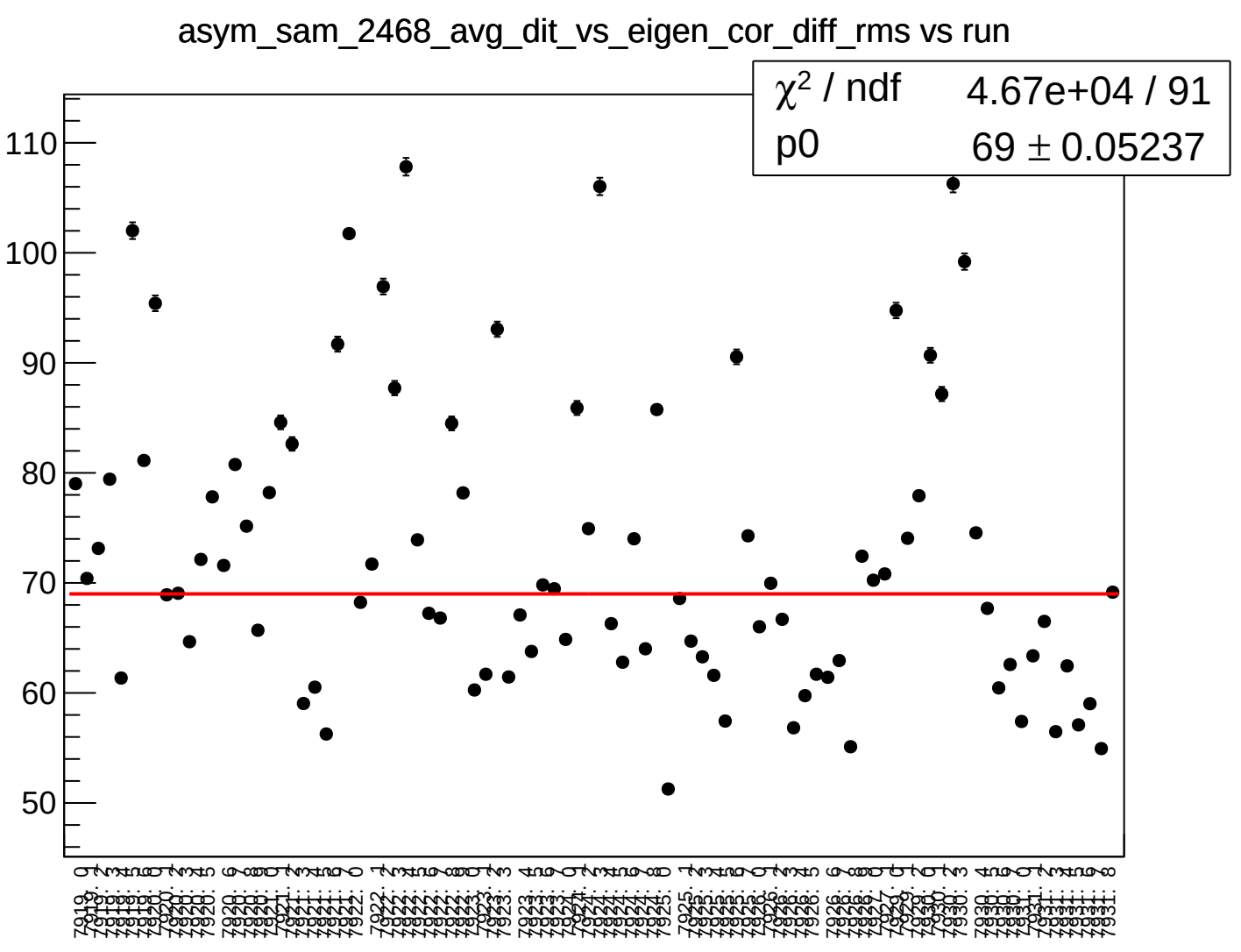

pull1D
Entries 92
Mean 0.04342
Std Dev 0.9645
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

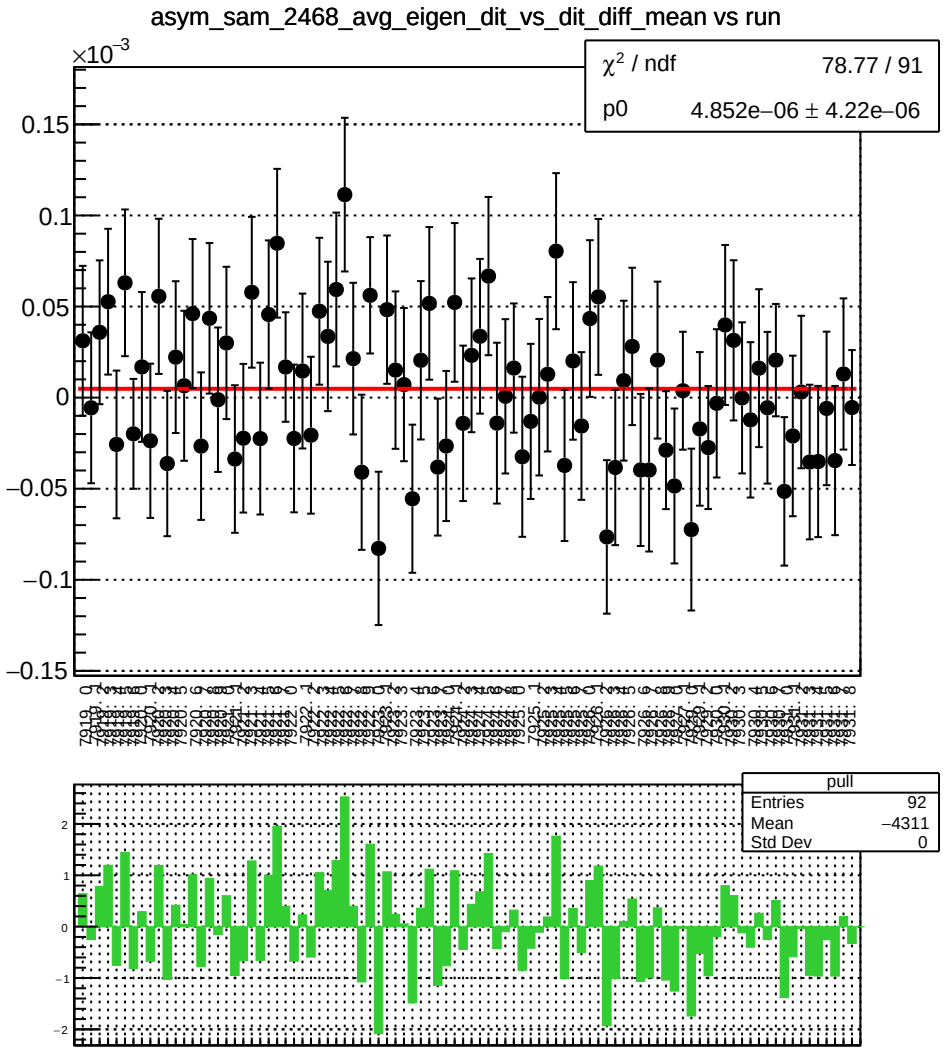

asym_sam_2468_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.553e+05 / 91
p0 2.796e−10 ± 2.903e−13
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

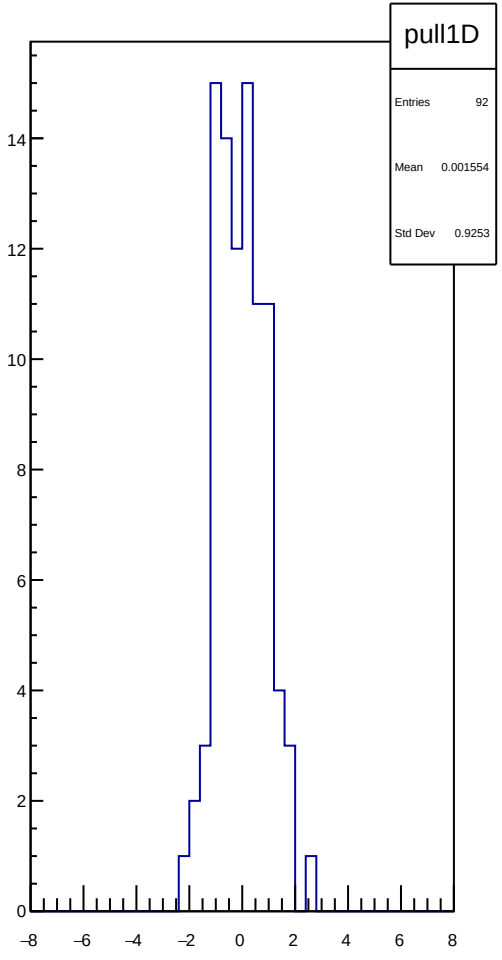

asym_sam_2468_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 93.48 / 91
p0 −0.03188 ± 0.07406
pull
Entries 92
Mean −15.35
Std Dev 0
pull1D
Entries 92
Mean −0.01838
Std Dev 1.008

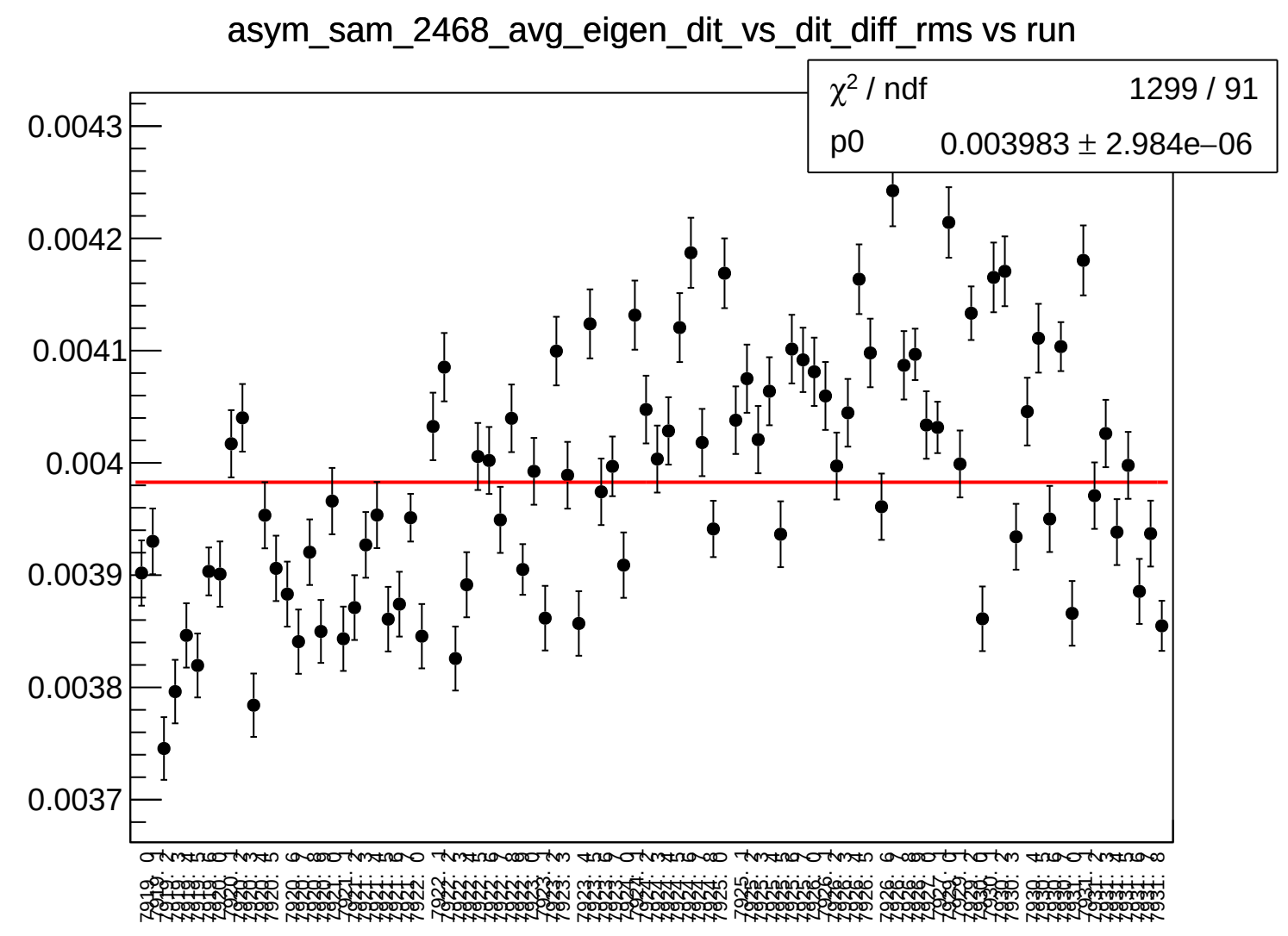

asym_sam_2468_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.67e+04 / 91
p0 69 ± 0.05237
110
100
90
80
70
60
50

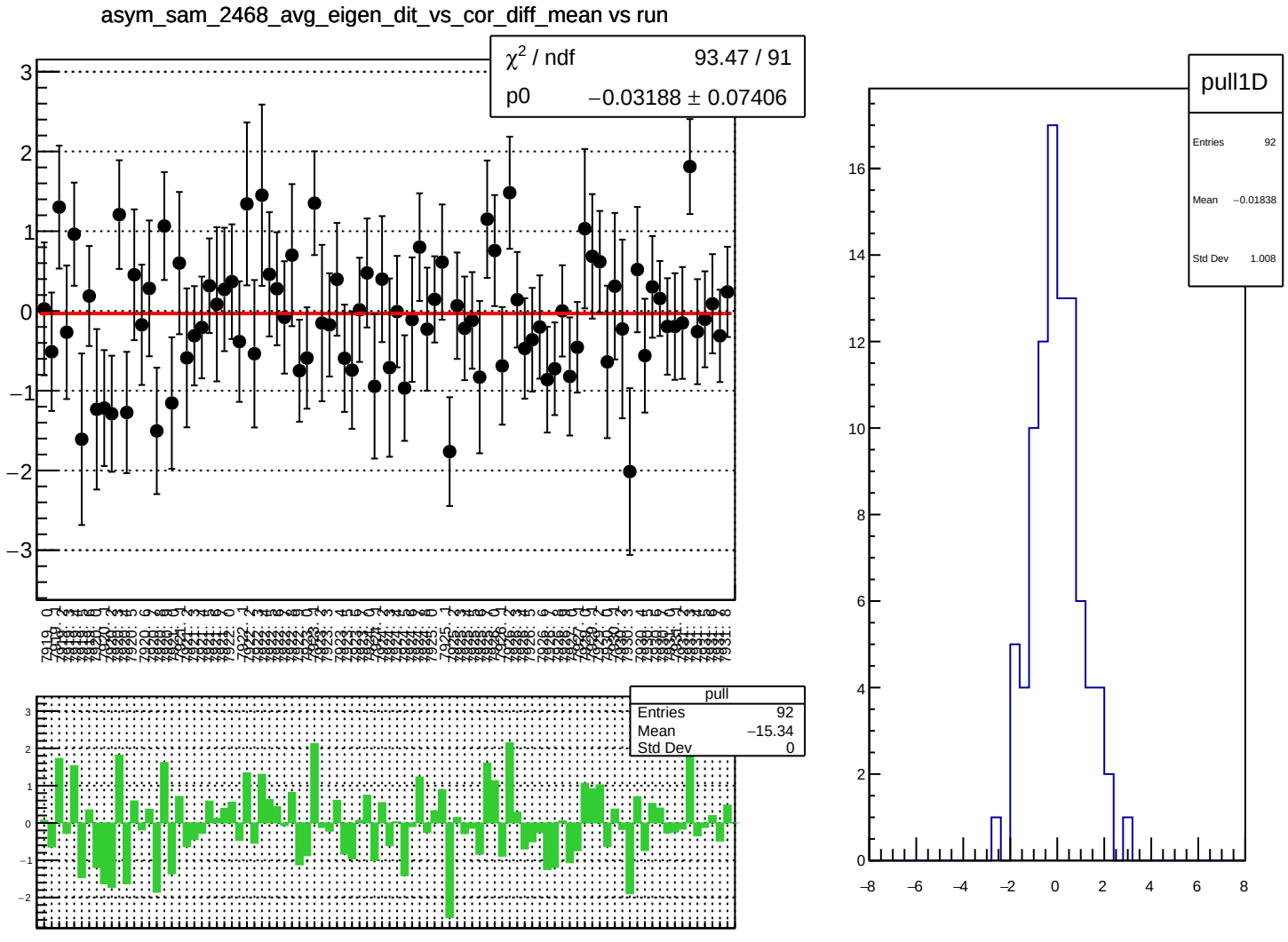

asym_sam_2468_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.48 / 91
p0 −0.03188 ± 0.07406
pull
Entries 92
Mean −15.35
Std Dev 0
pull1D
Entries 92
Mean −0.01838
Std Dev 1.008

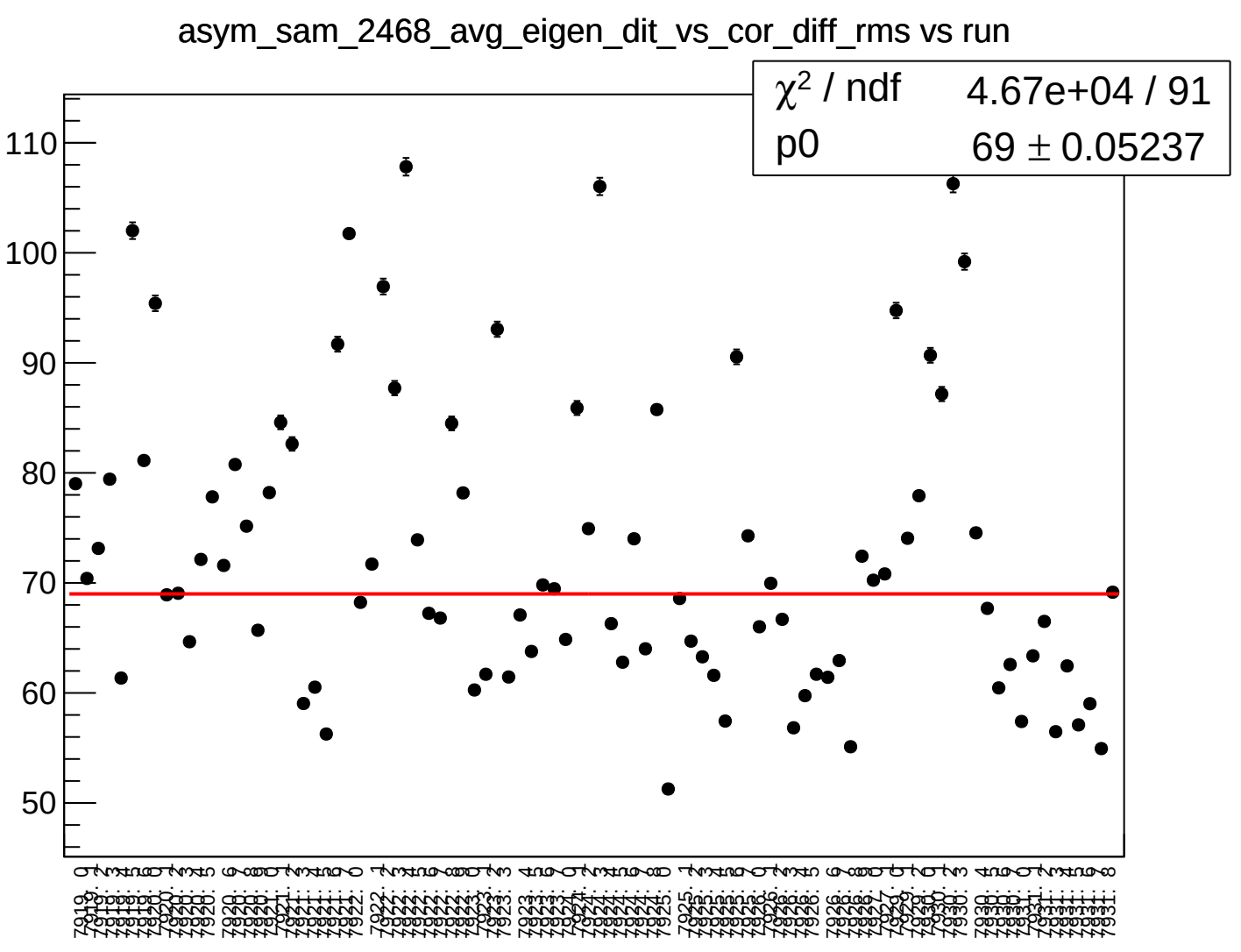

asym_sam_2468_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.67e+04 / 91
p0 69 ± 0.05237
110
100
90
80
70
60
50

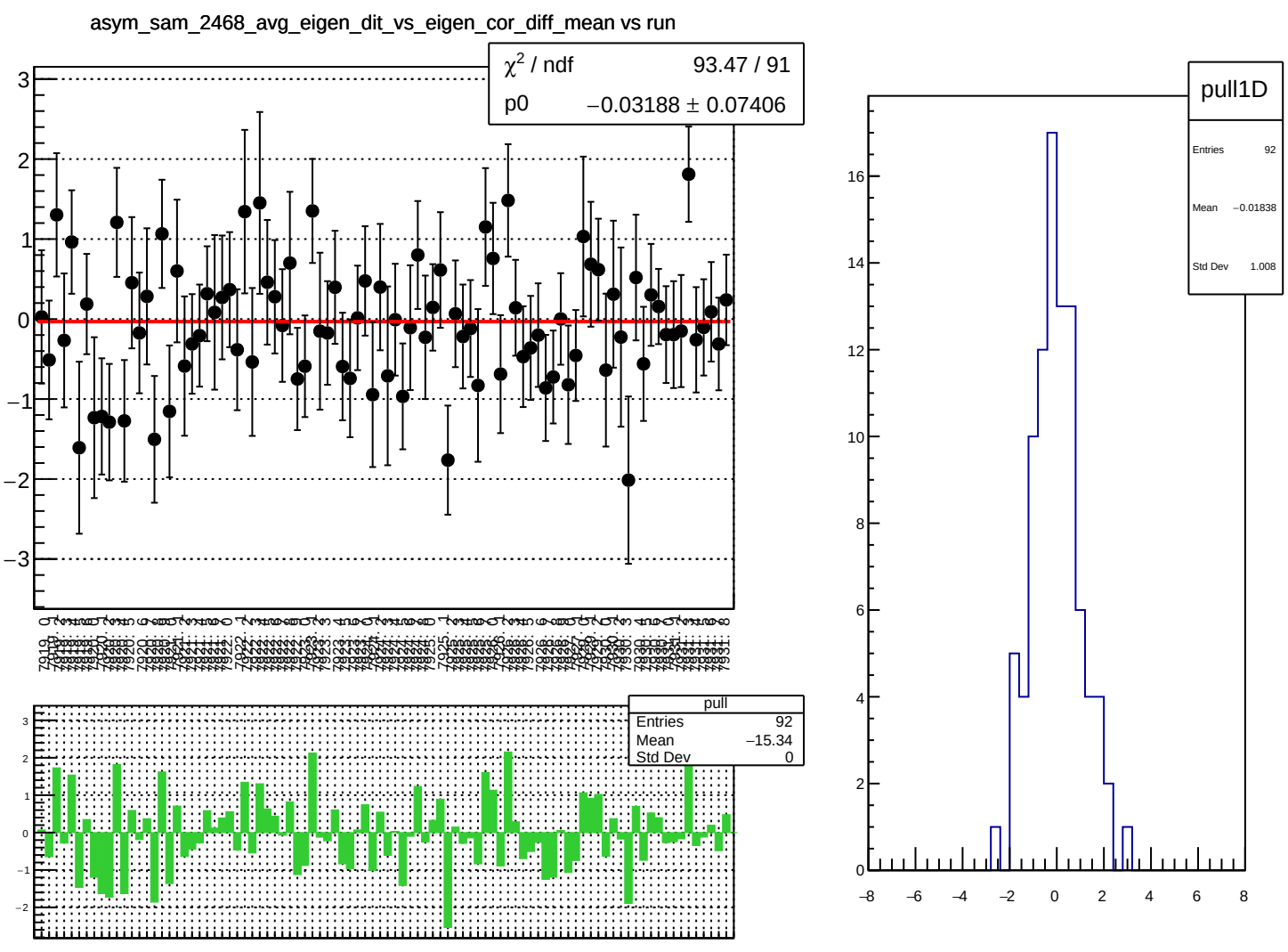

asym_sam_2468_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 78.77 / 91
p0 4.852e−06 ± 4.22e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 92
Mean −4311
Std Dev 0
2
1
0
−1
−2

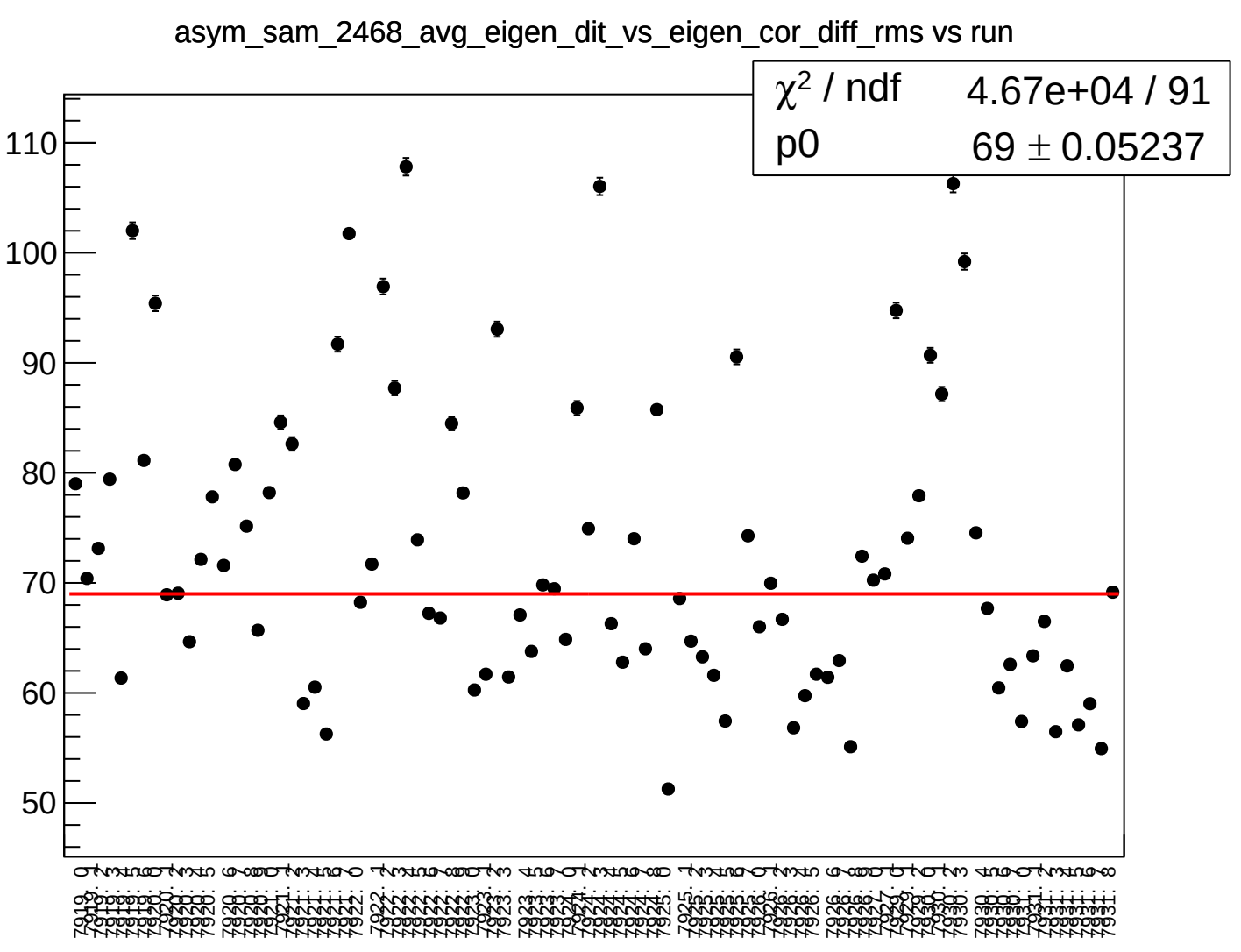

pull1D
Entries 92
Mean 0.001554
Std Dev 0.9253
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

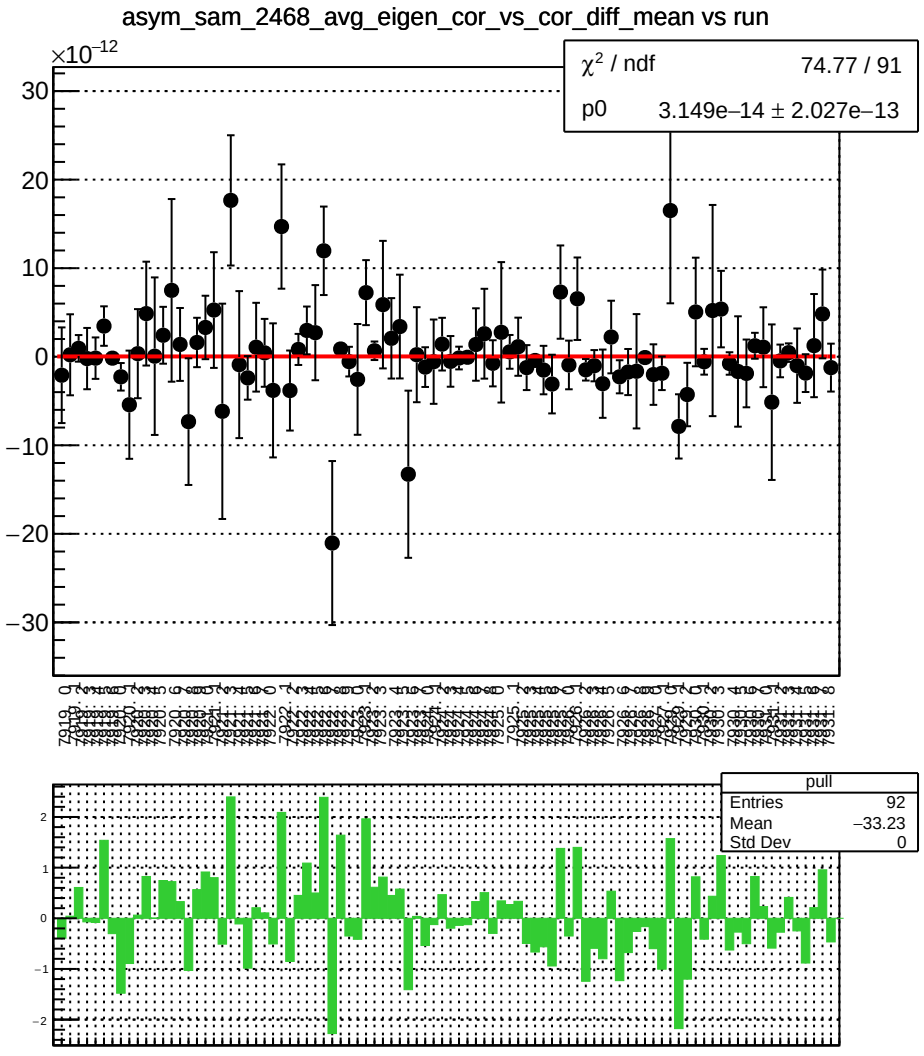

asym_sam_2468_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1299 / 91
p0 0.003983 ± 2.984e−06
0.0043
0.0042
0.0041
0.004
0.0039
0.0038
0.0037

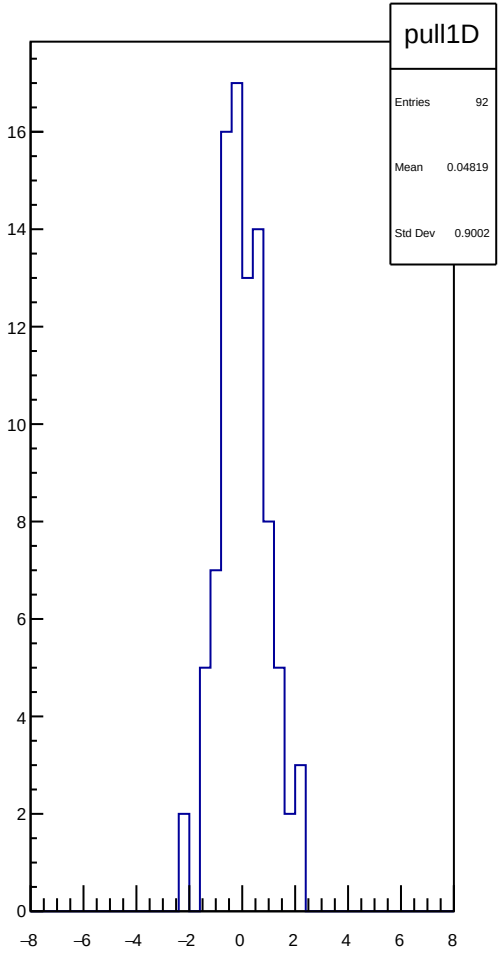

asym_sam_2468_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.47 / 91
p0 −0.03188 ± 0.07406
pull
Entries 92
Mean −15.34
Std Dev 0
pull1D
Entries 92
Mean −0.01838
Std Dev 1.008

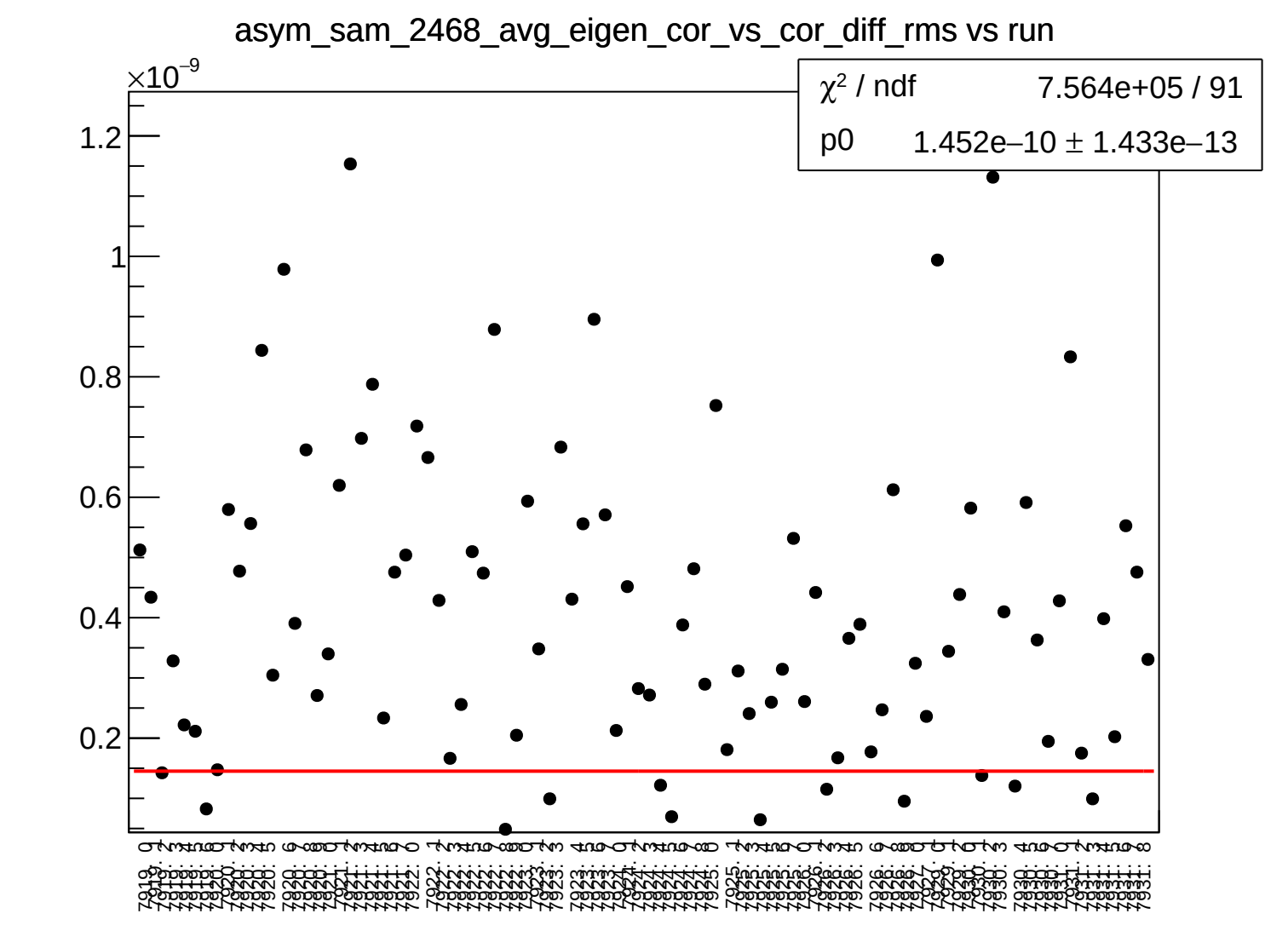

asym_sam_2468_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.67e+04 / 91
p0 69 ± 0.05237
110
100
90
80
70
60
50

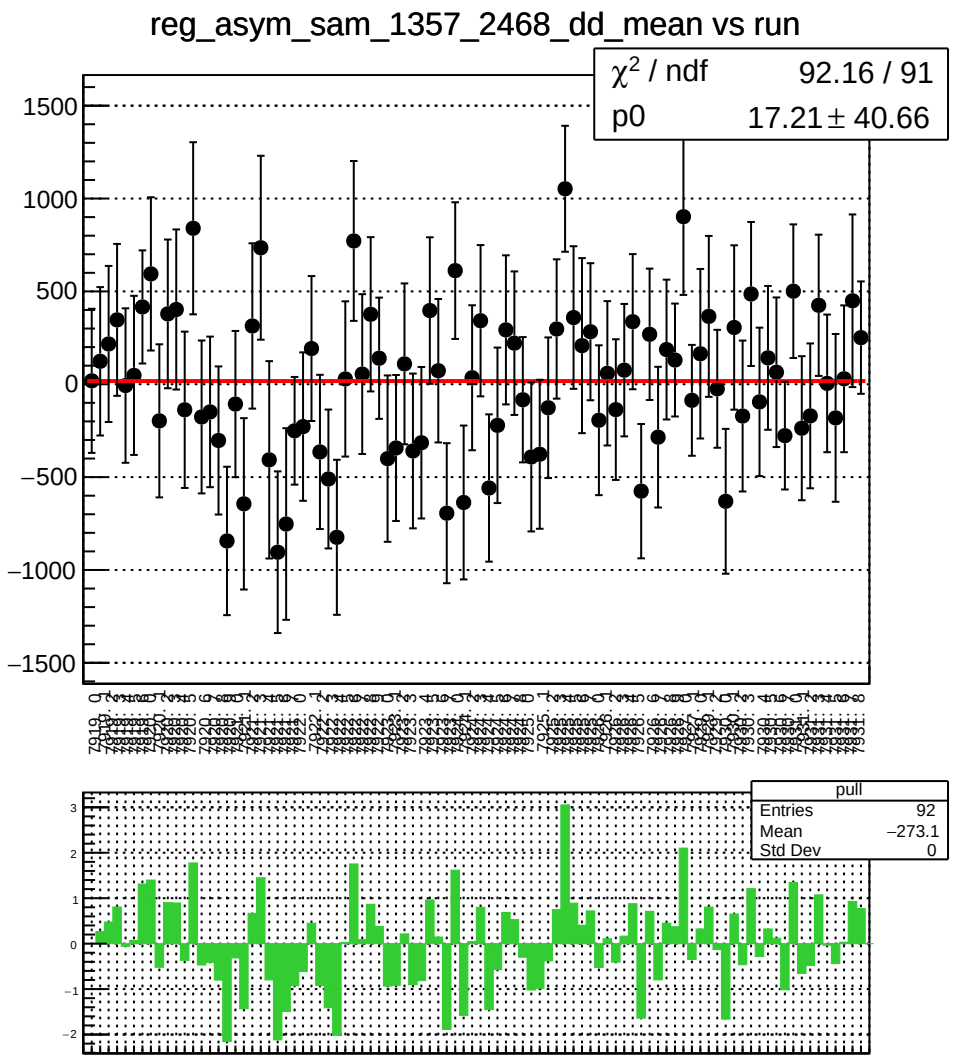

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.47 / 91
p0 −0.03188 ± 0.07406
pull
Entries 92
Mean −15.34
Std Dev 0
pull1D
Entries 92
Mean −0.01838
Std Dev 1.008

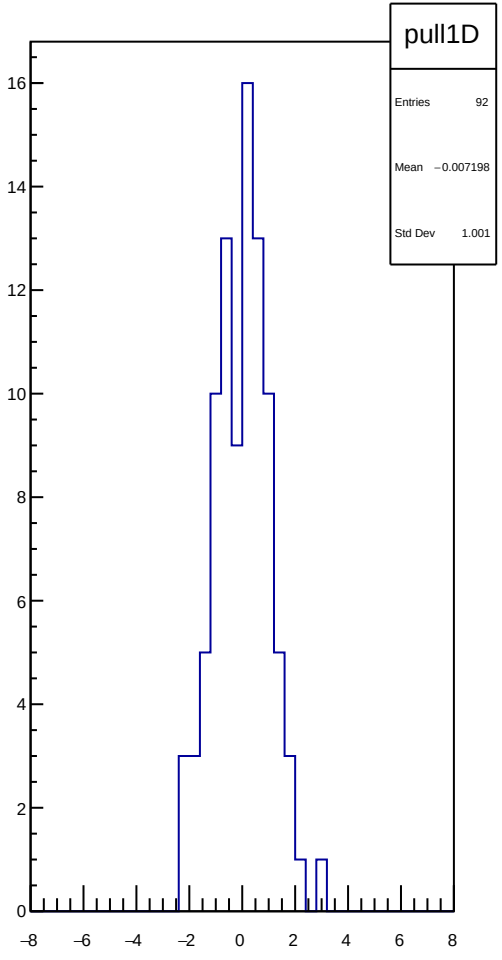

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.67e+04 / 91
p0 69 ± 0.05237
110
100
90
80
70
60
50

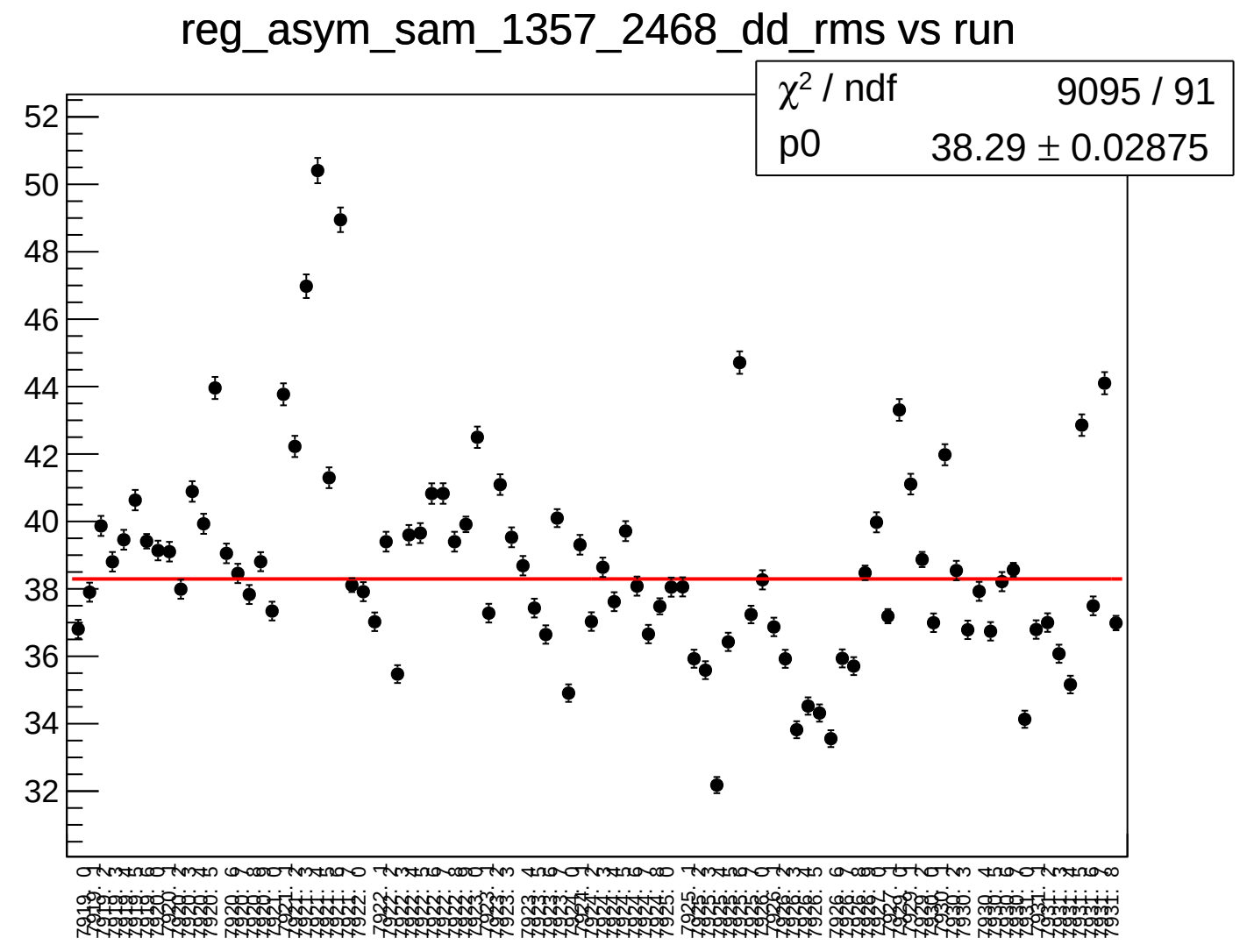

asym_sam_2468_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 74.77 / 91
p0 3.149e−14 ± 2.027e−13
pull
Entries 92
Mean −33.23
Std Dev 0

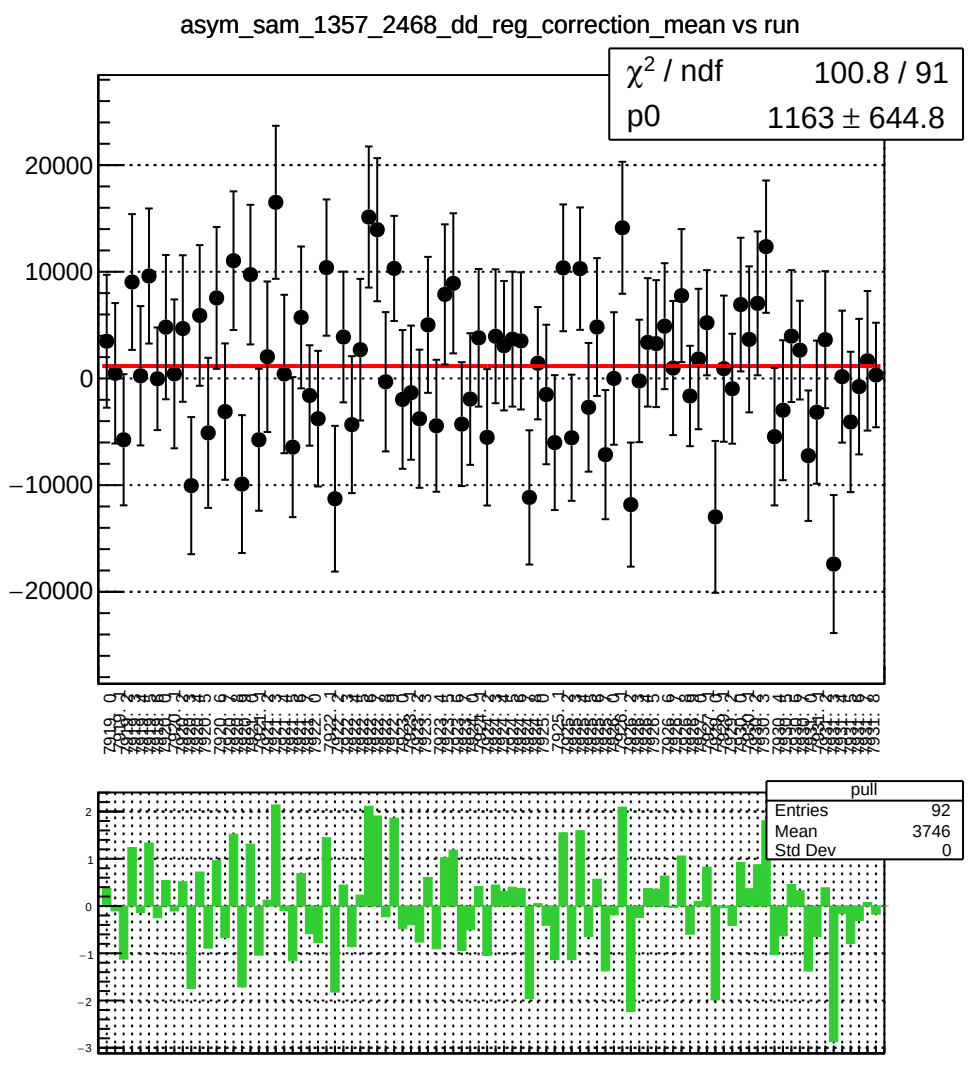

pull1D
Entries 92
Mean 0.04819
Std Dev 0.9002

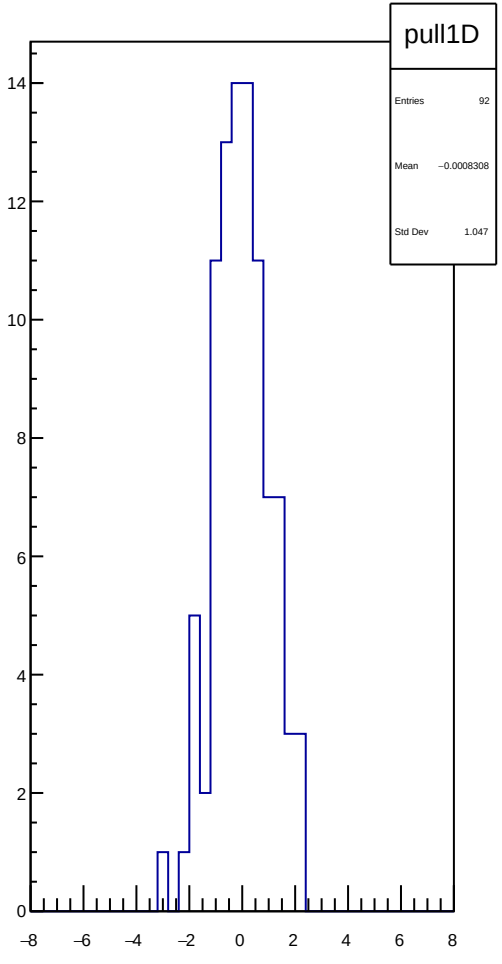

asym_sam_2468_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.564e+05 / 91
p0 1.452e−10 ± 1.433e−13
1.2
1
0.8
0.6
0.4
0.2

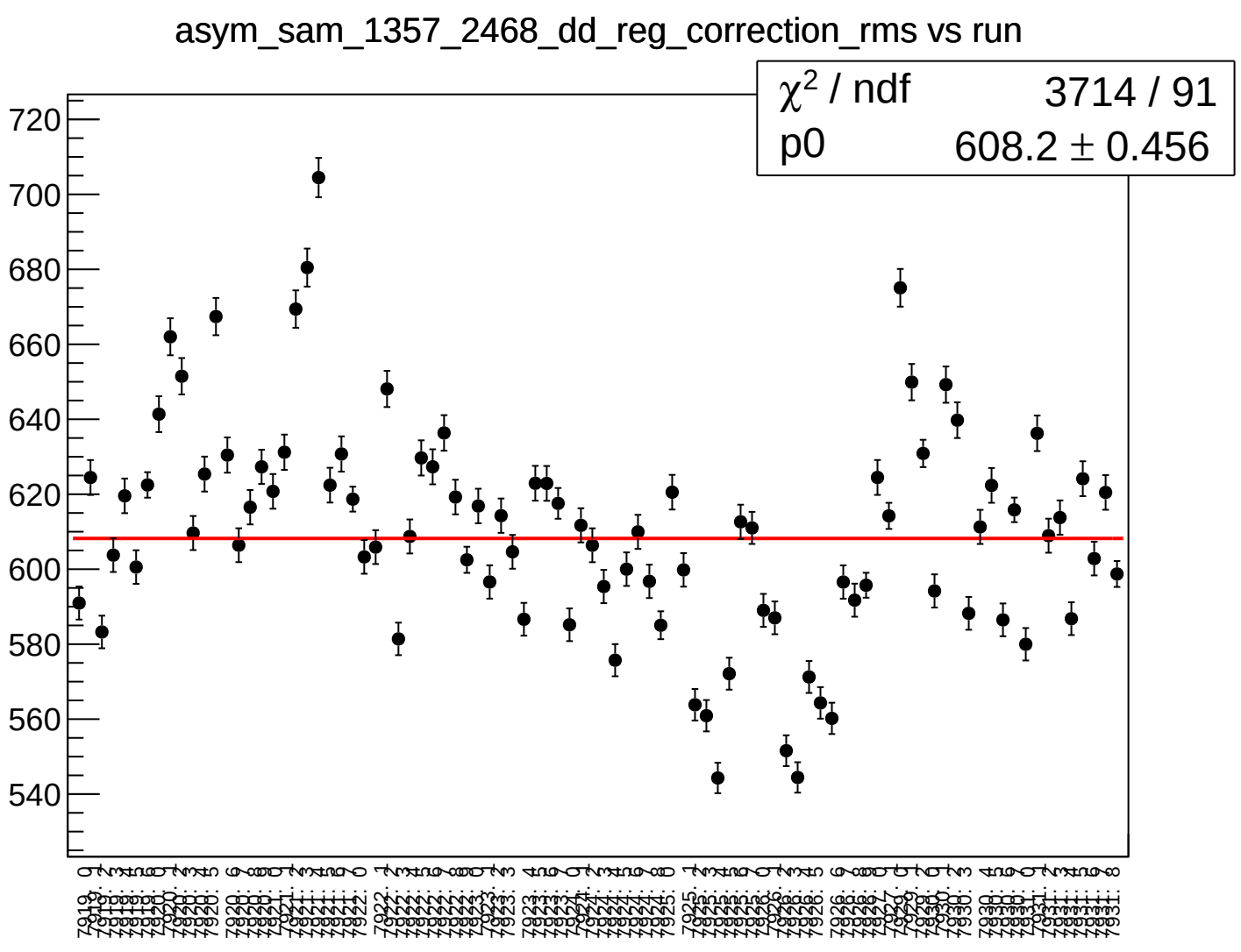

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 92.16 / 91
p0 17.21 ± 40.66
pull
Entries 92
Mean −273.1
Std Dev 0

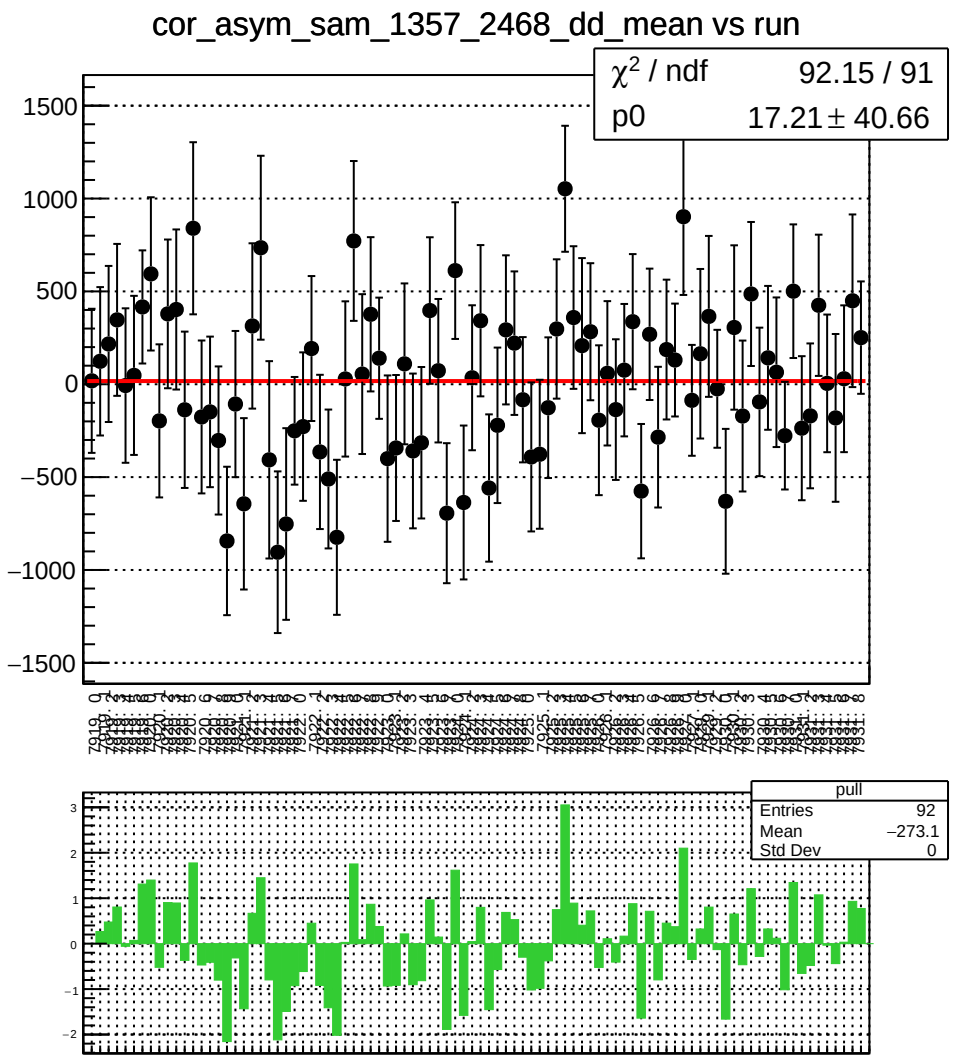

pull1D
Entries 92
Mean −0.007198
Std Dev 1.001

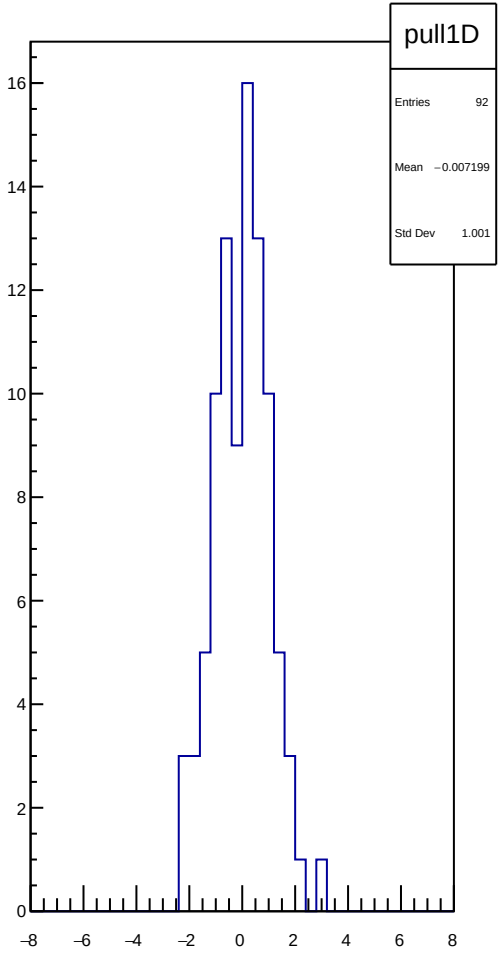

reg_asym_sam_1357_2468_dd_rms vs run
χ^2 / ndf 9095 / 91
p0 38.29 ± 0.02875
52
50
48
46
44
42
40
38
36
34
32

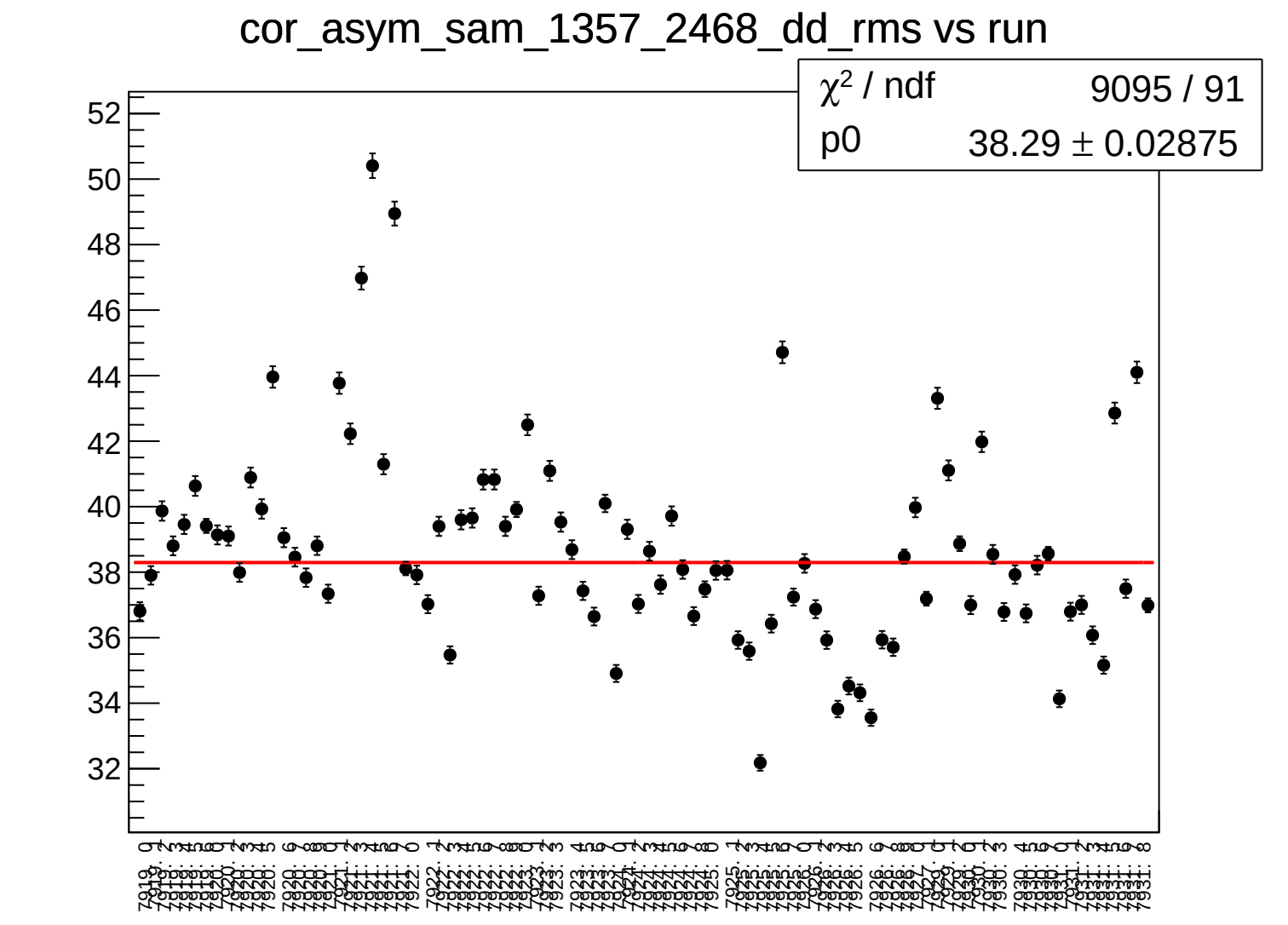

asym_sam_1357_2468_dd_reg_correction_mean vs run
χ² / ndf 100.8 / 91
p0 1163 ± 644.8
20000
10000
0
−10000
−20000
pull
Entries 92
Mean 3746
Std Dev 0
2
1
0
−1
−2
−3

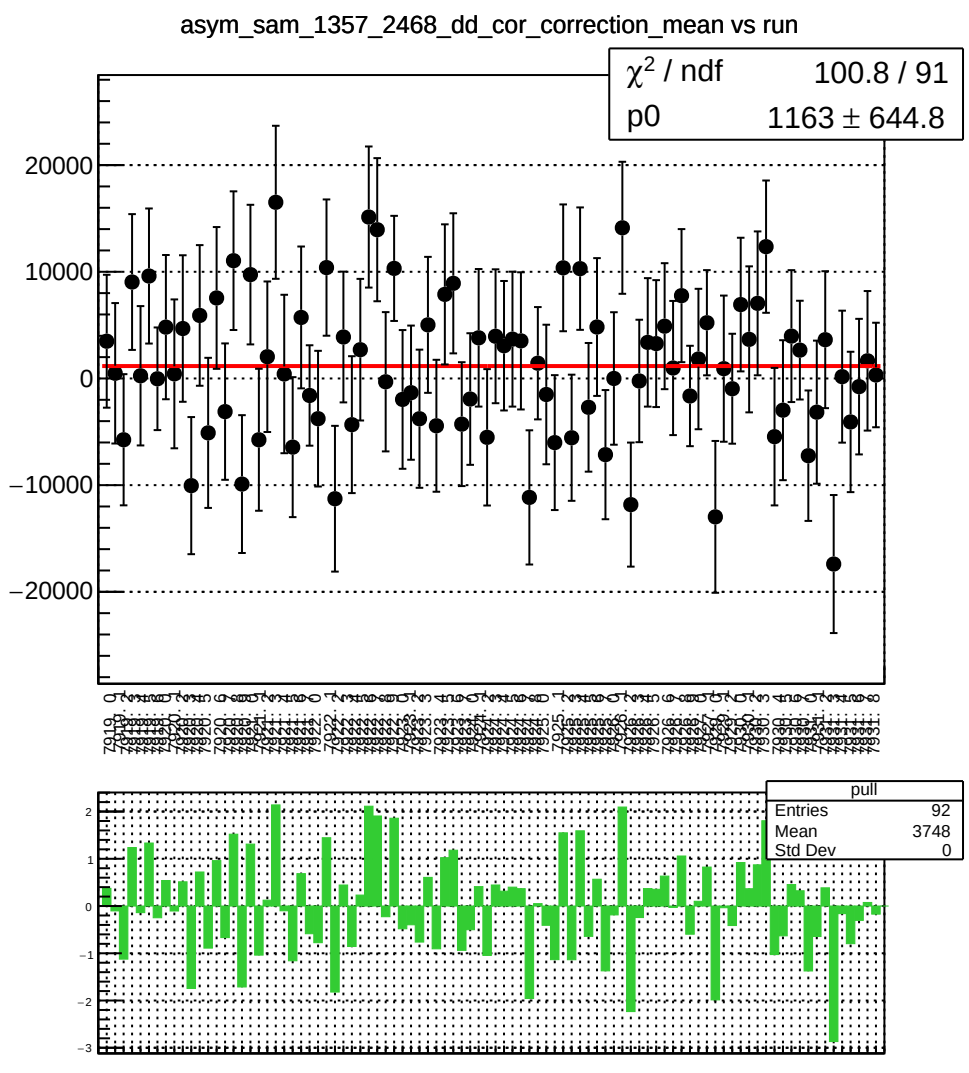

pull1D
Entries 92
Mean −0.0008308
Std Dev 1.047
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

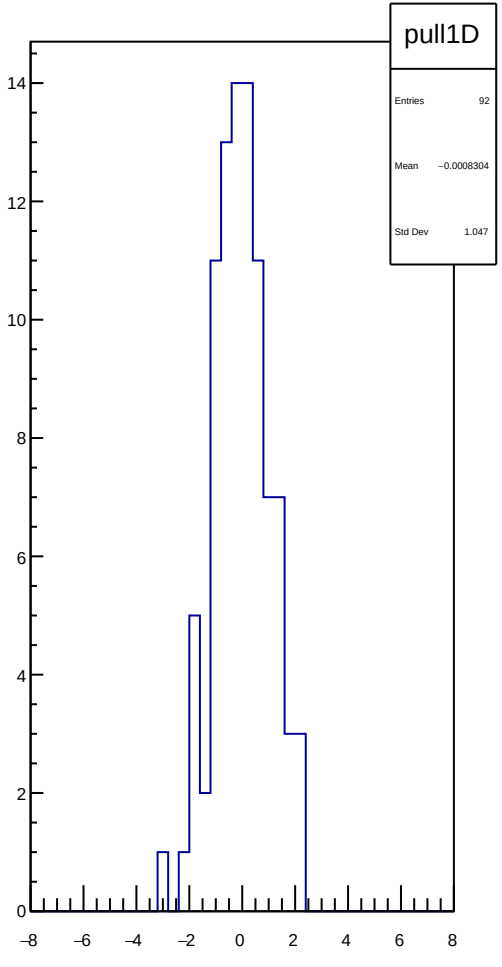

asym_sam_1357_2468_dd_reg_correction_rms vs run
χ² / ndf 3714 / 91
p0 608.2 ± 0.456
720
700
680
660
640
620
600
580
560
540

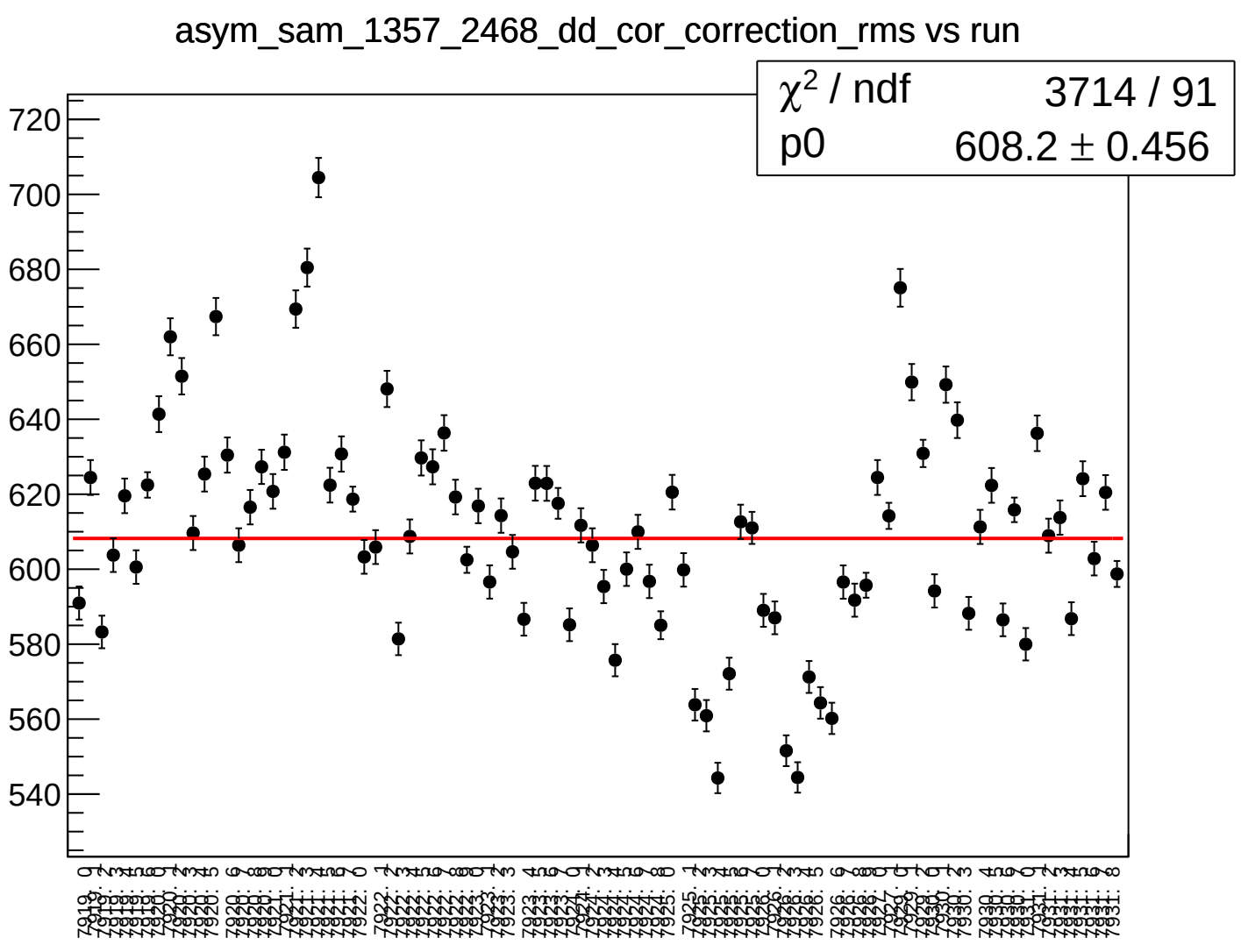

cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 92.15 / 91
p0 17.21 ± 40.66
pull
Entries 92
Mean −273.1
Std Dev 0

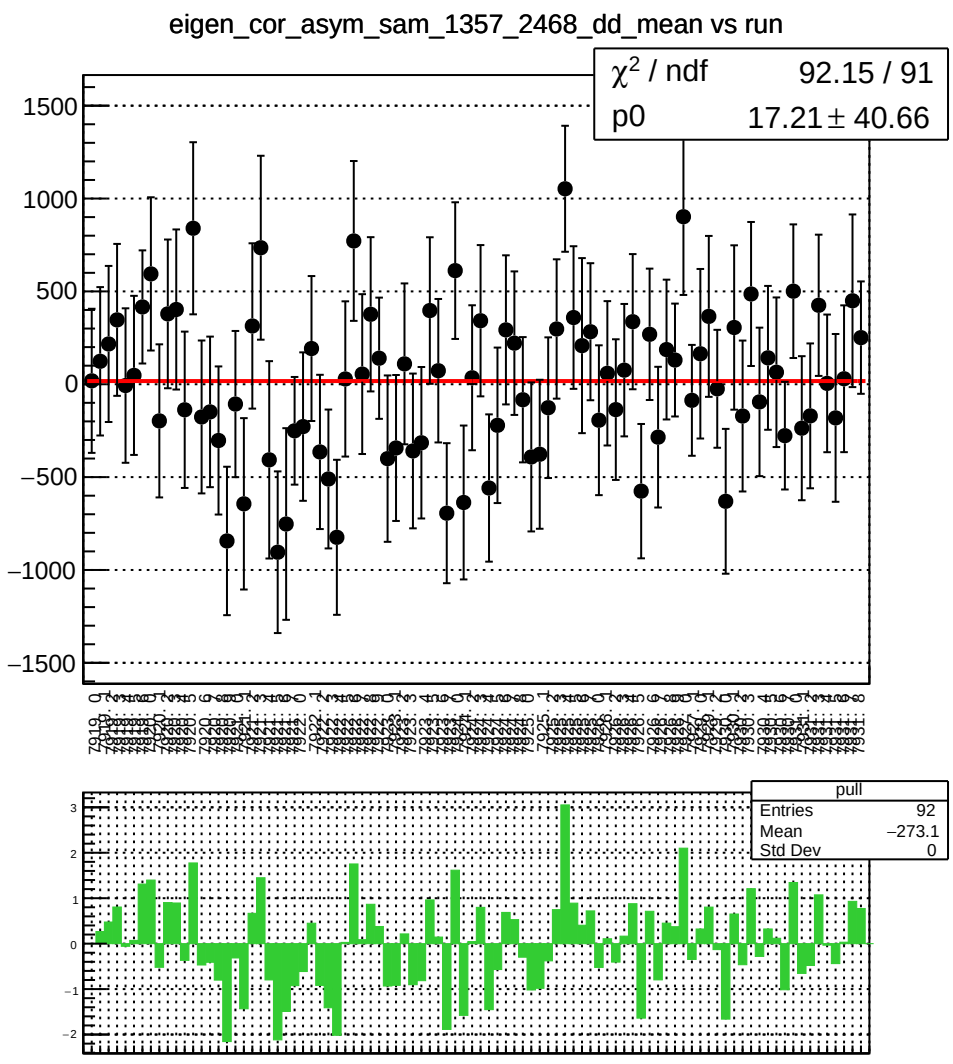

pull1D
Entries 92
Mean −0.007199
Std Dev 1.001

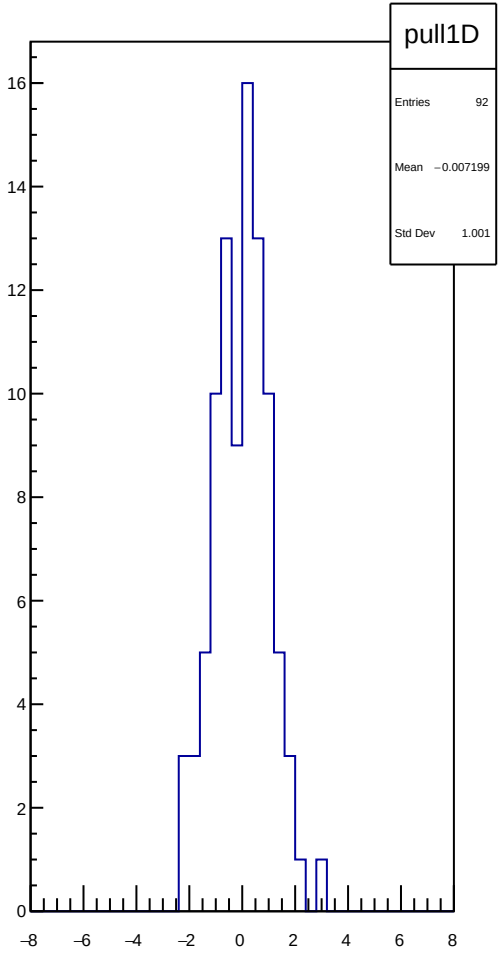

cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 9095 / 91
p0 38.29 ± 0.02875
52
50
48
46
44
42
40
38
36
34
32

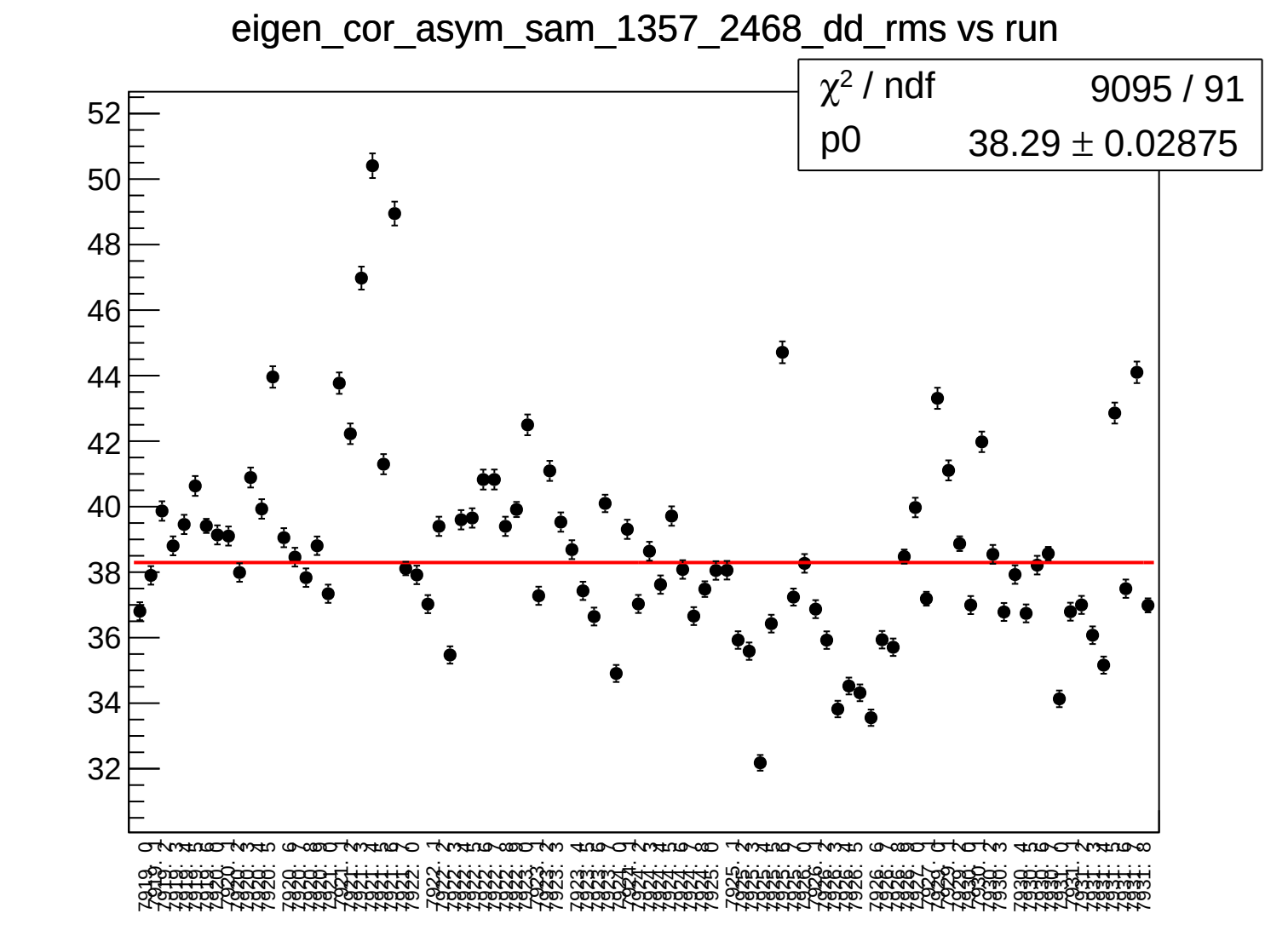

asym_sam_1357_2468_dd_cor_correction_mean vs run
χ² / ndf 100.8 / 91
p0 1163 ± 644.8
20000
10000
0
−10000
−20000
pull
Entries 92
Mean 3748
Std Dev 0
2
1
0
−1
−2
−3

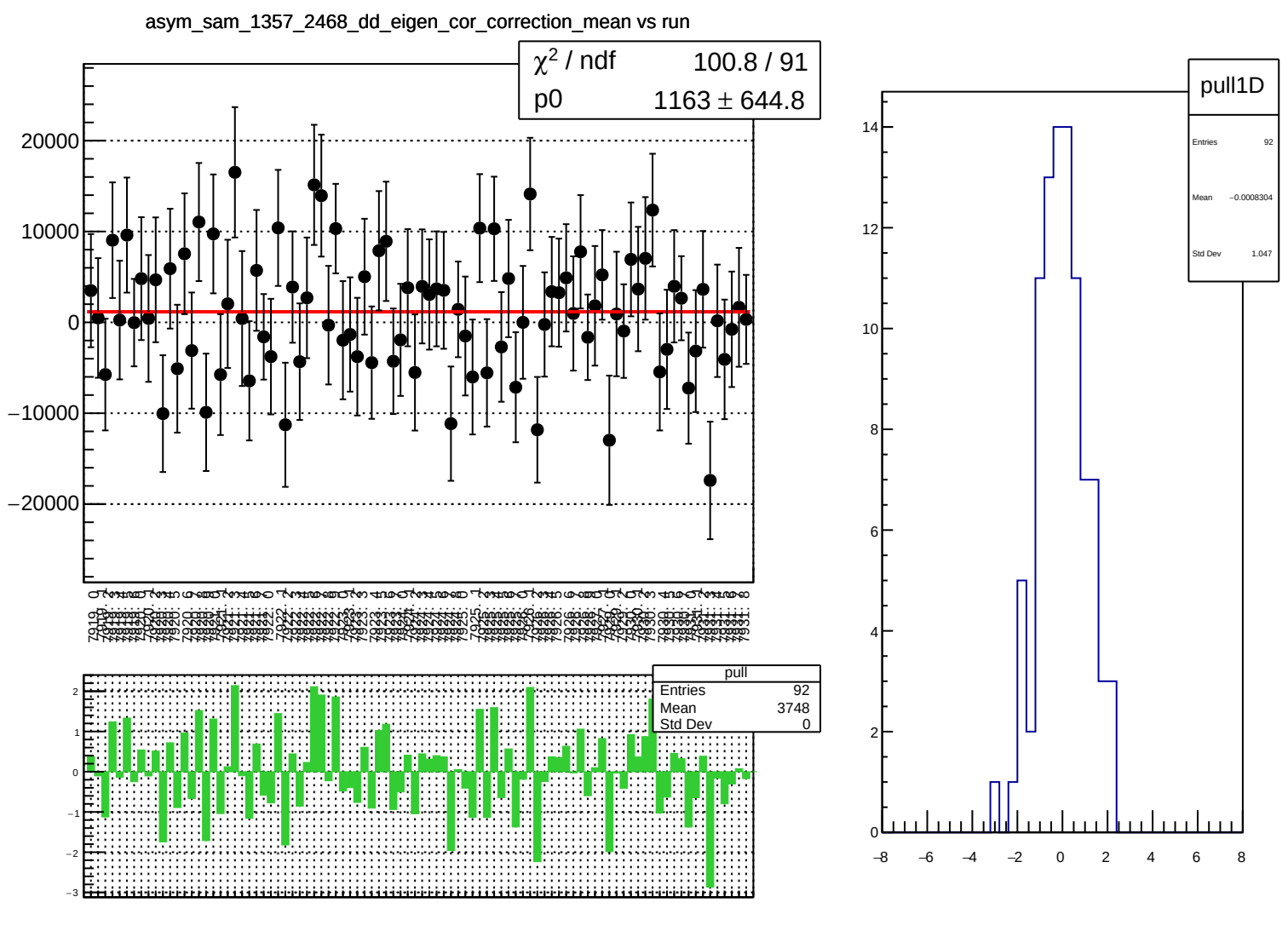

pull1D
Entries 92
Mean −0.0008304
Std Dev 1.047
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

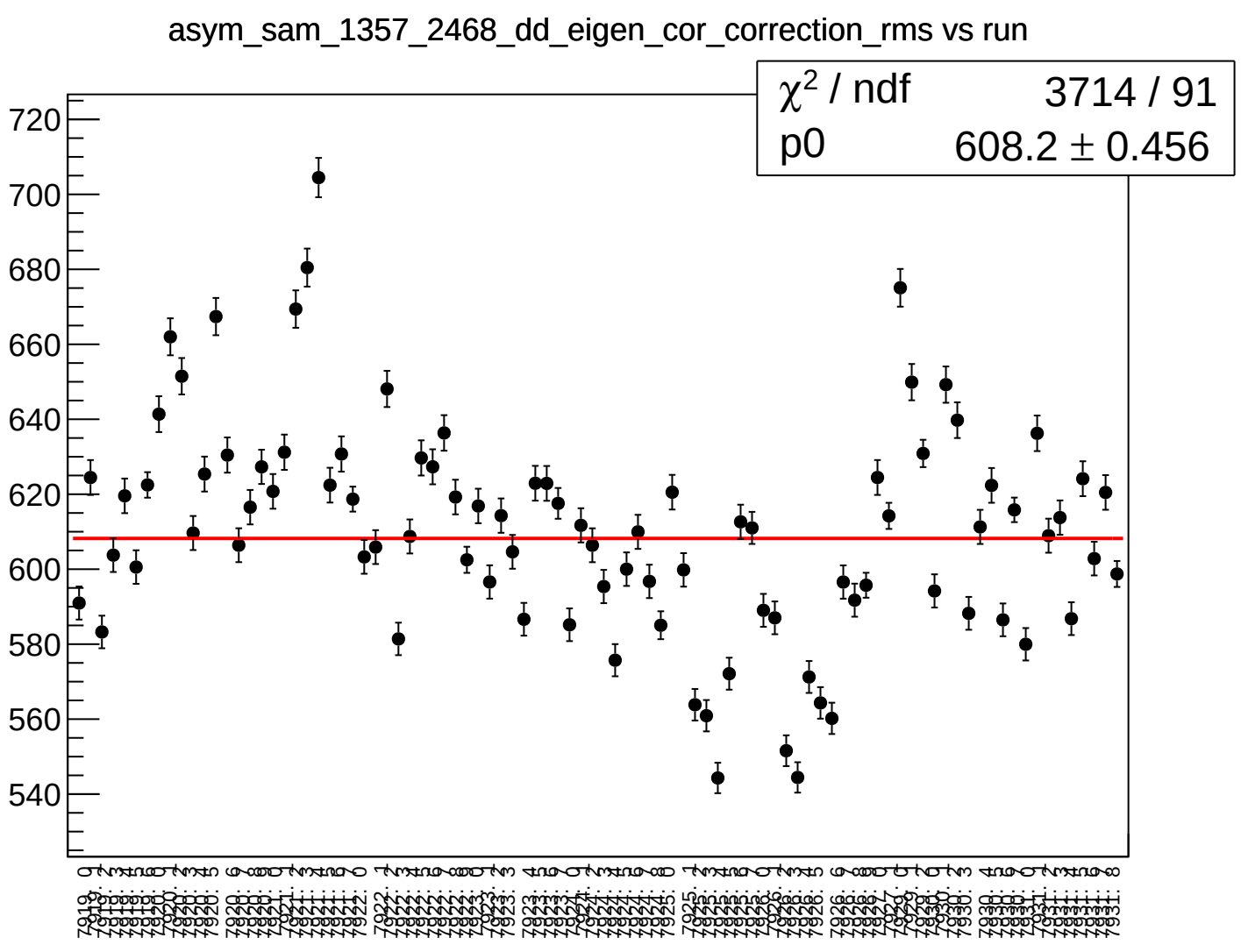

asym_sam_1357_2468_dd_cor_correction_rms vs run
χ² / ndf 3714 / 91
p0 608.2 ± 0.456
720
700
680
660
640
620
600
580
560
540

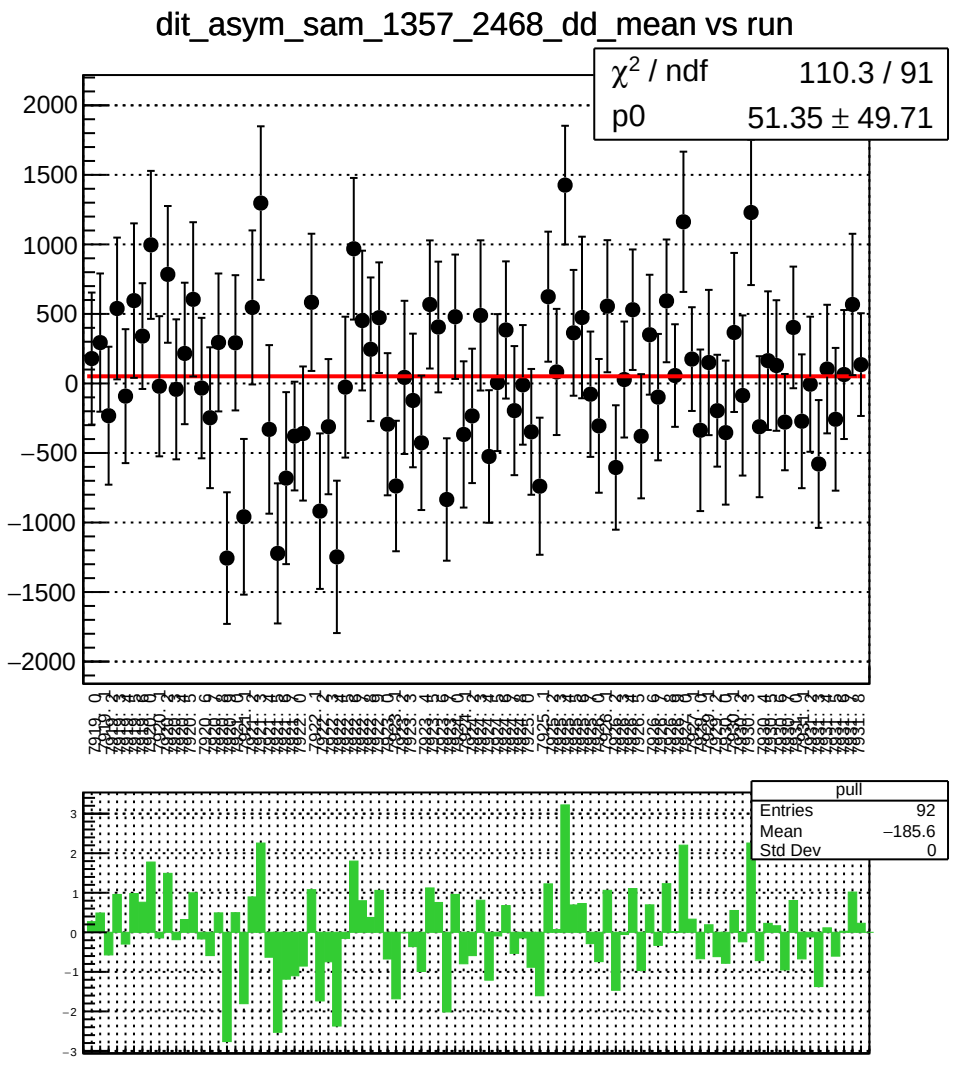

eigen_cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 92.15 / 91
p0 17.21 ± 40.66
1500
1000
500
0
−500
−1000
−1500
pull
Entries 92
Mean −273.1
Std Dev 0
3
2
1
0
−1
−2

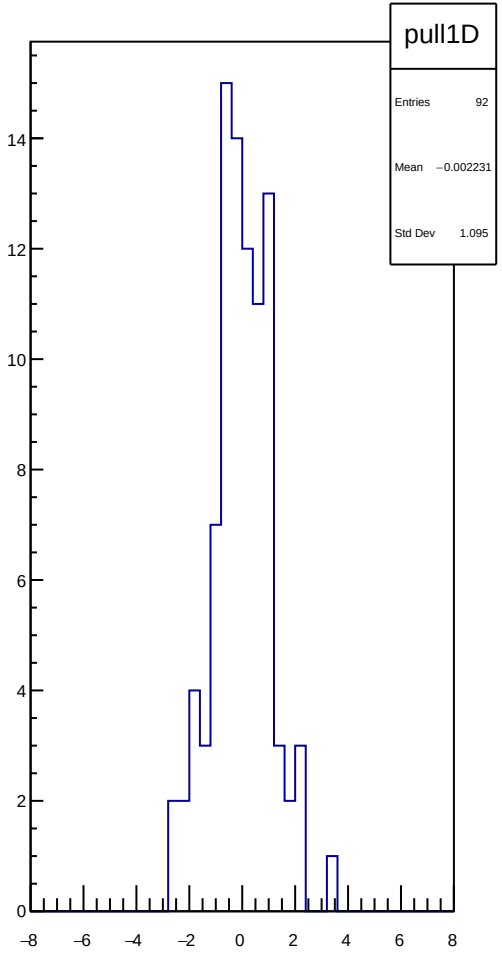

pull1D
Entries 92
Mean −0.007199
Std Dev 1.001
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

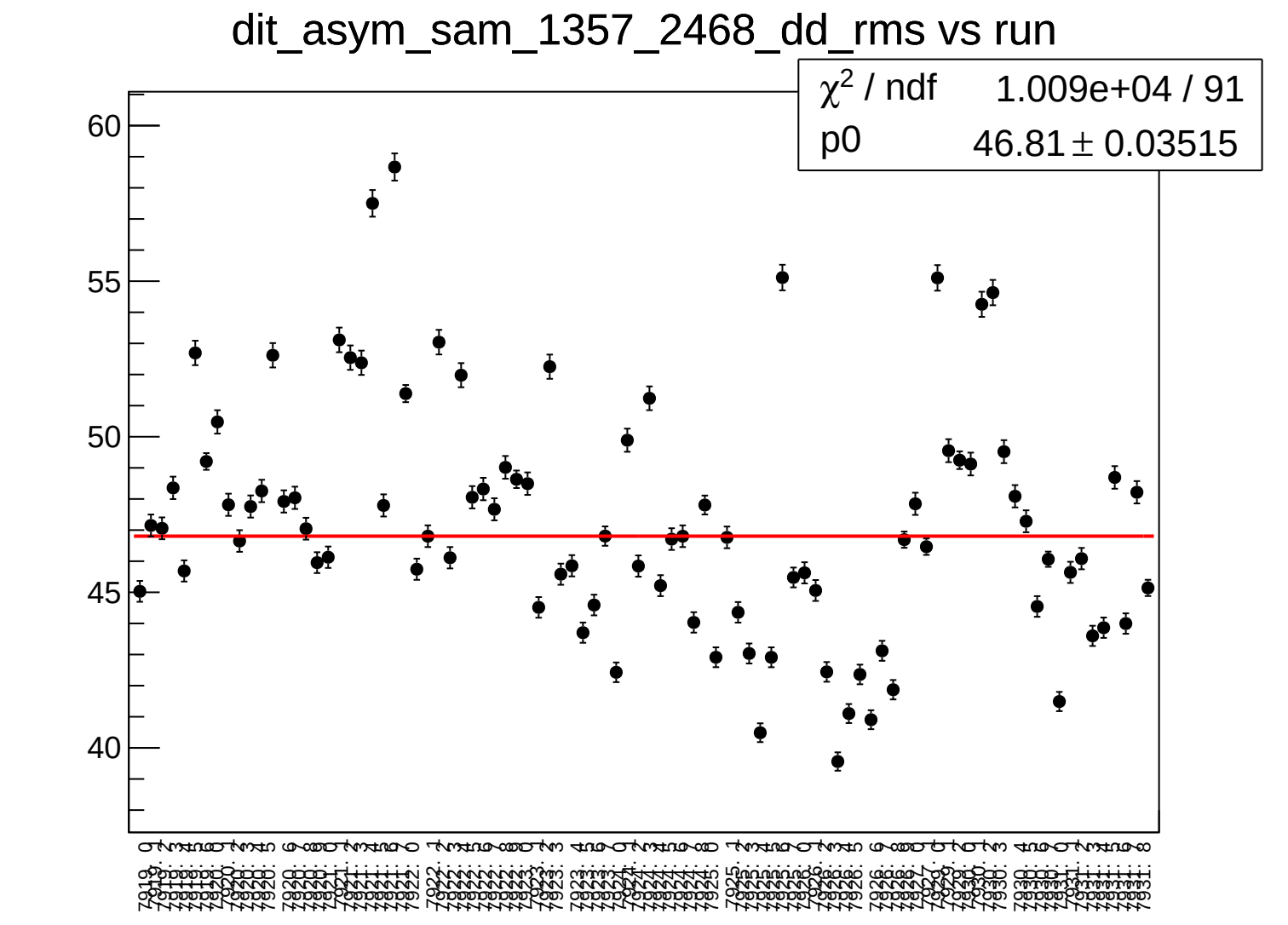

eigen_cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 9095 / 91
p0 38.29 ± 0.02875
52
50
48
46
44
42
40
38
36
34
32

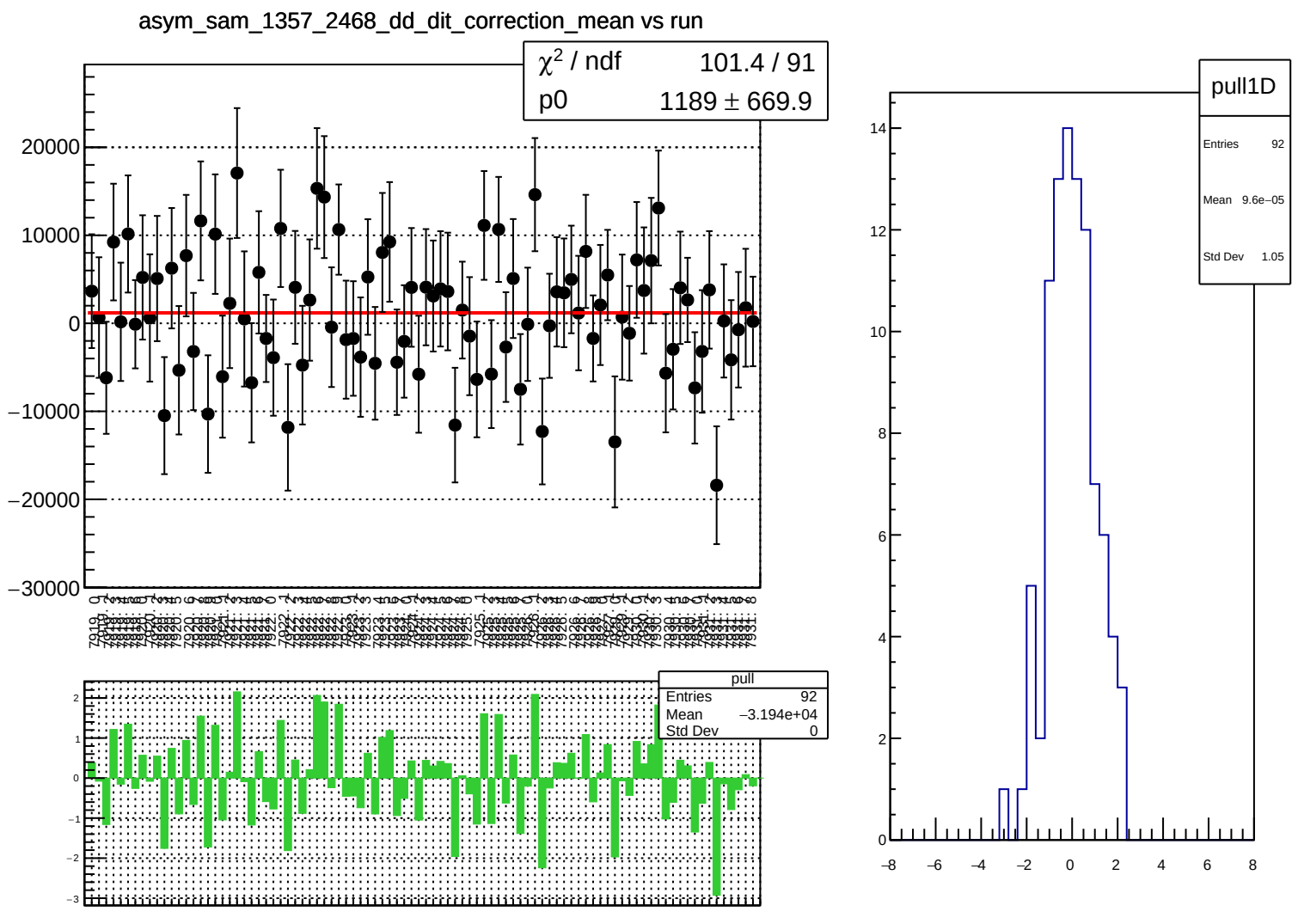

asym_sam_1357_2468_dd_eigen_cor_correction_mean vs run
χ² / ndf 100.8 / 91
p0 1163 ± 644.8
20000
10000
0
−10000
−20000
pull
Entries 92
Mean 3748
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.0008304
Std Dev 1.047
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

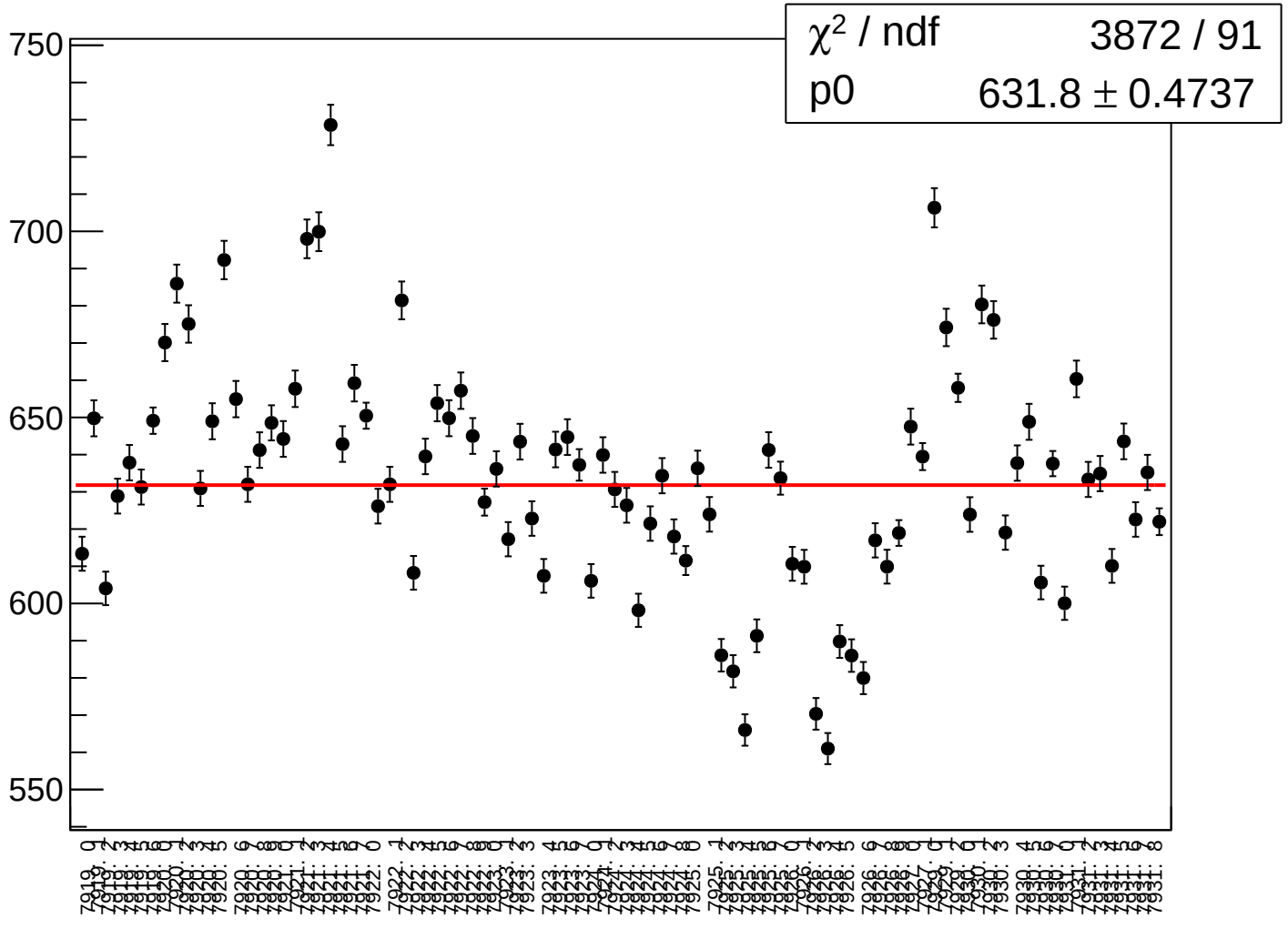

asym_sam_1357_2468_dd_eigen_cor_correction_rms vs run
χ² / ndf 3714 / 91
p0 608.2 ± 0.456
720
700
680
660
640
620
600
580
560
540

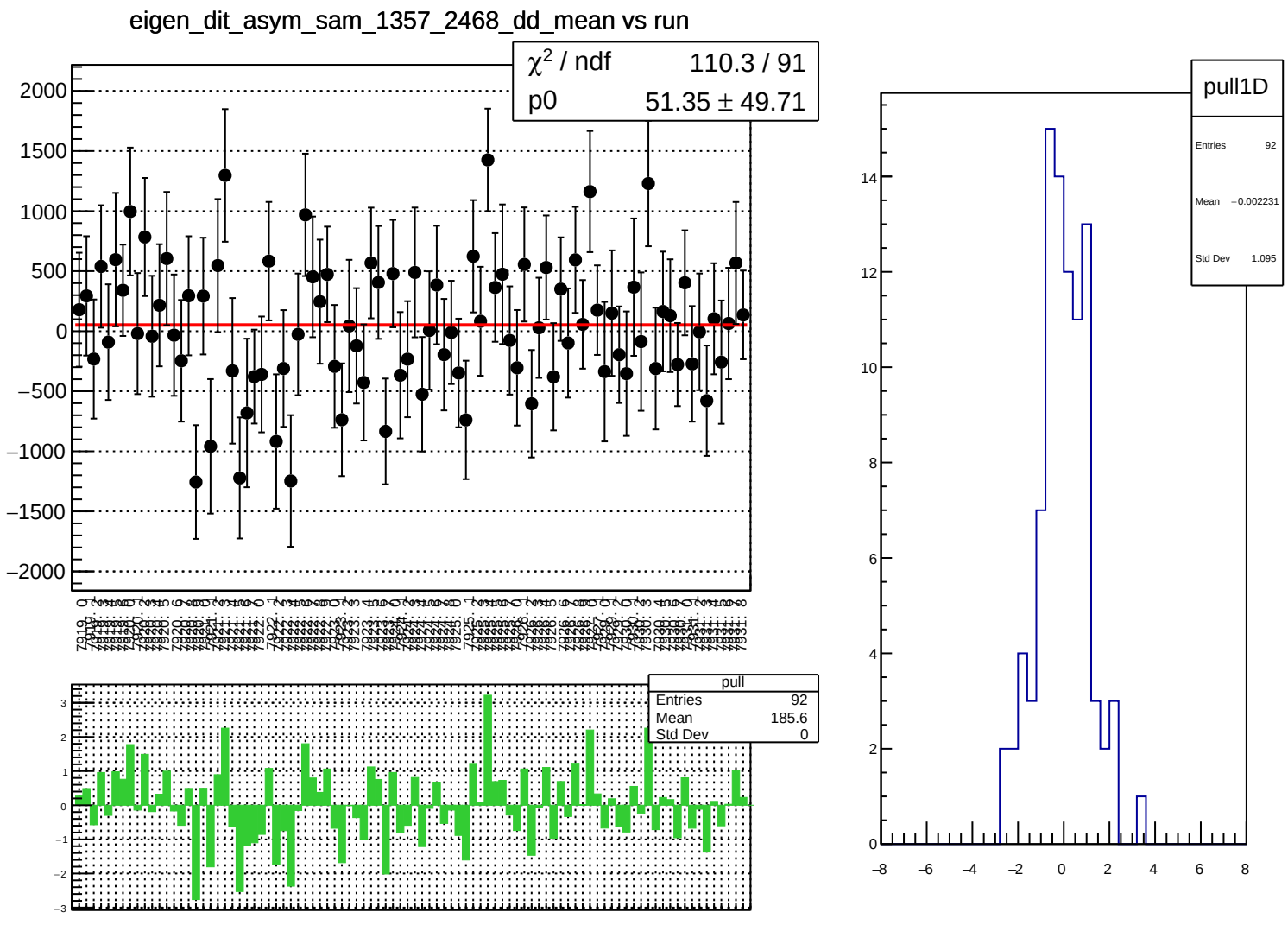

dit_asym_sam_1357_2468_dd_mean vs run
χ^2 / ndf 110.3 / 91
p0 51.35 ± 49.71
pull
Entries 92
Mean −185.6
Std Dev 0

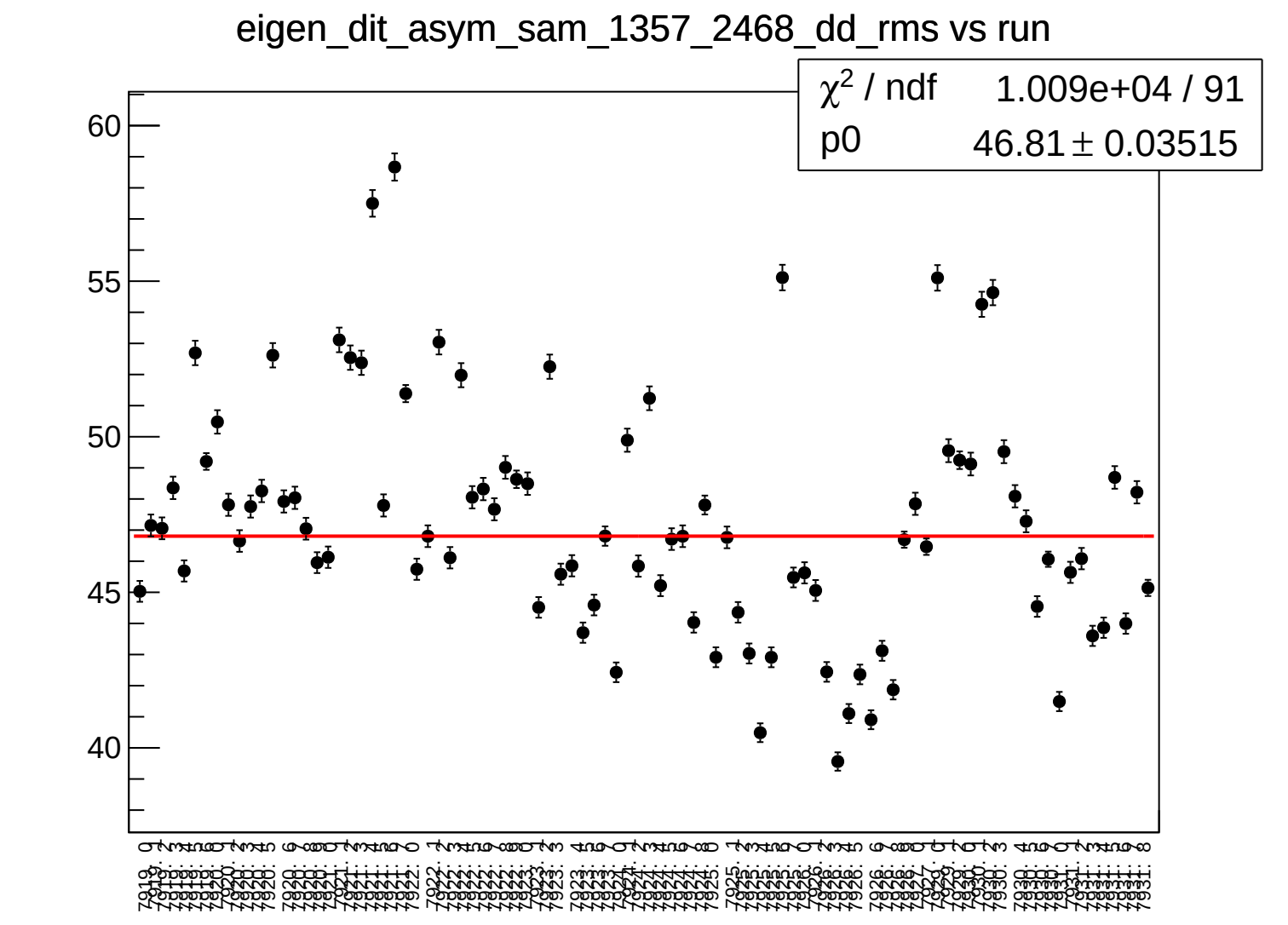

pull1D
Entries 92
Mean −0.002231
Std Dev 1.095

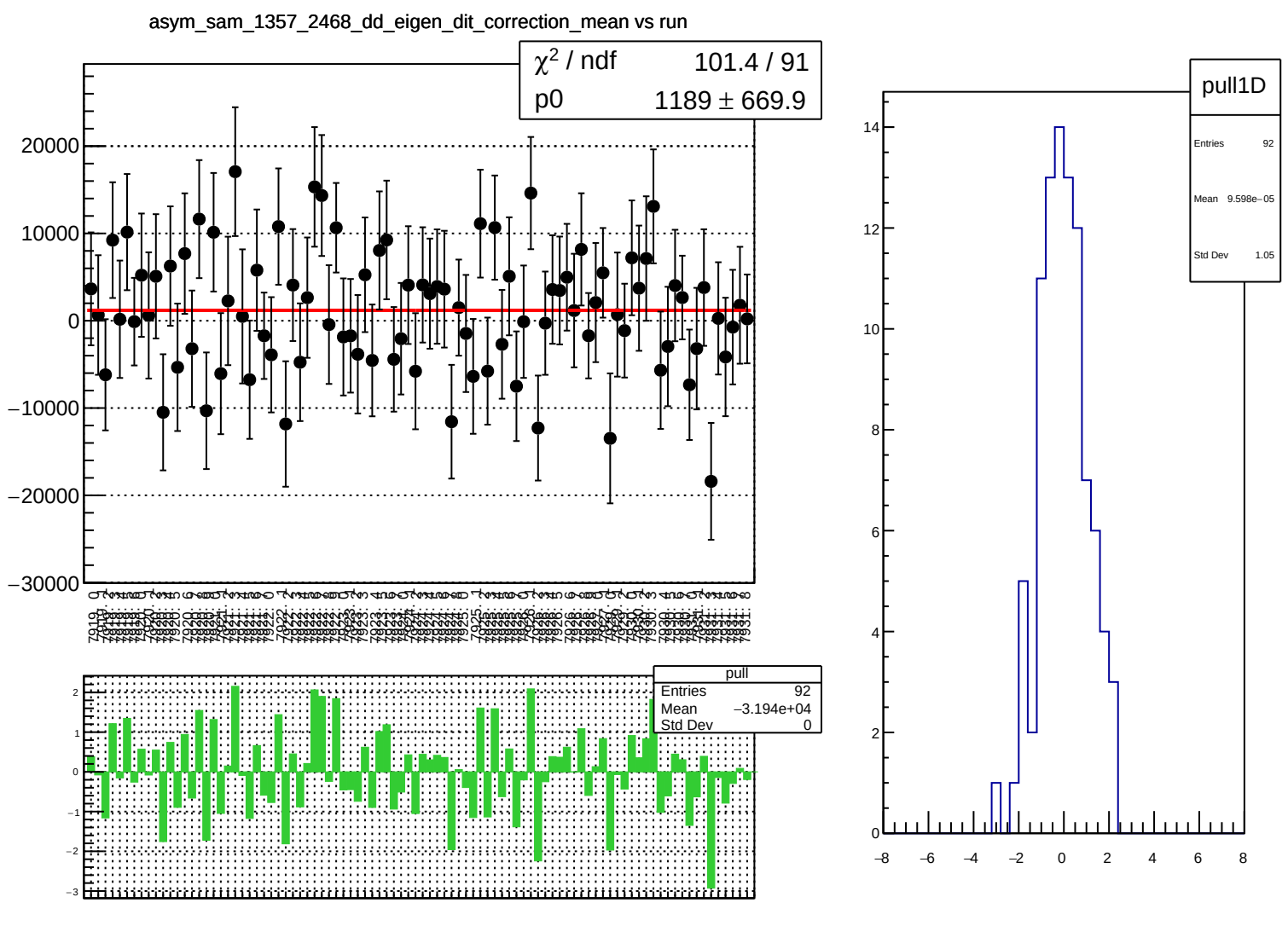

dit_asym_sam_1357_2468_dd_rms vs run
χ^2 / ndf 1.009e+04 / 91
p0 46.81 ± 0.03515
60
55
50
45
40

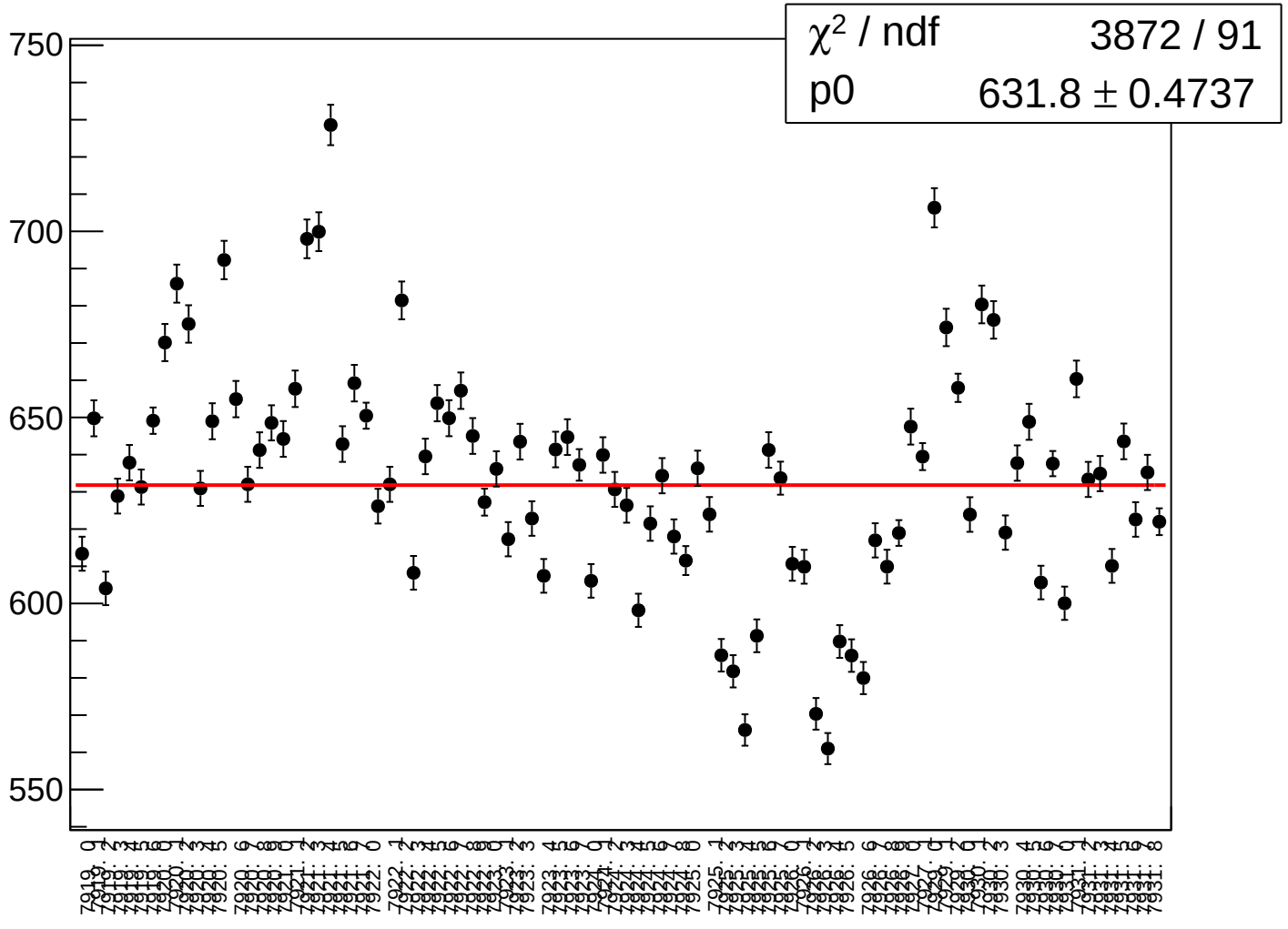

asym_sam_1357_2468_dd_dit_correction_mean vs run
χ² / ndf 101.4 / 91
p0 1189 ± 669.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −3.194e+04
Std Dev 0
pull1D
Entries 92
Mean 9.6e−05
Std Dev 1.05

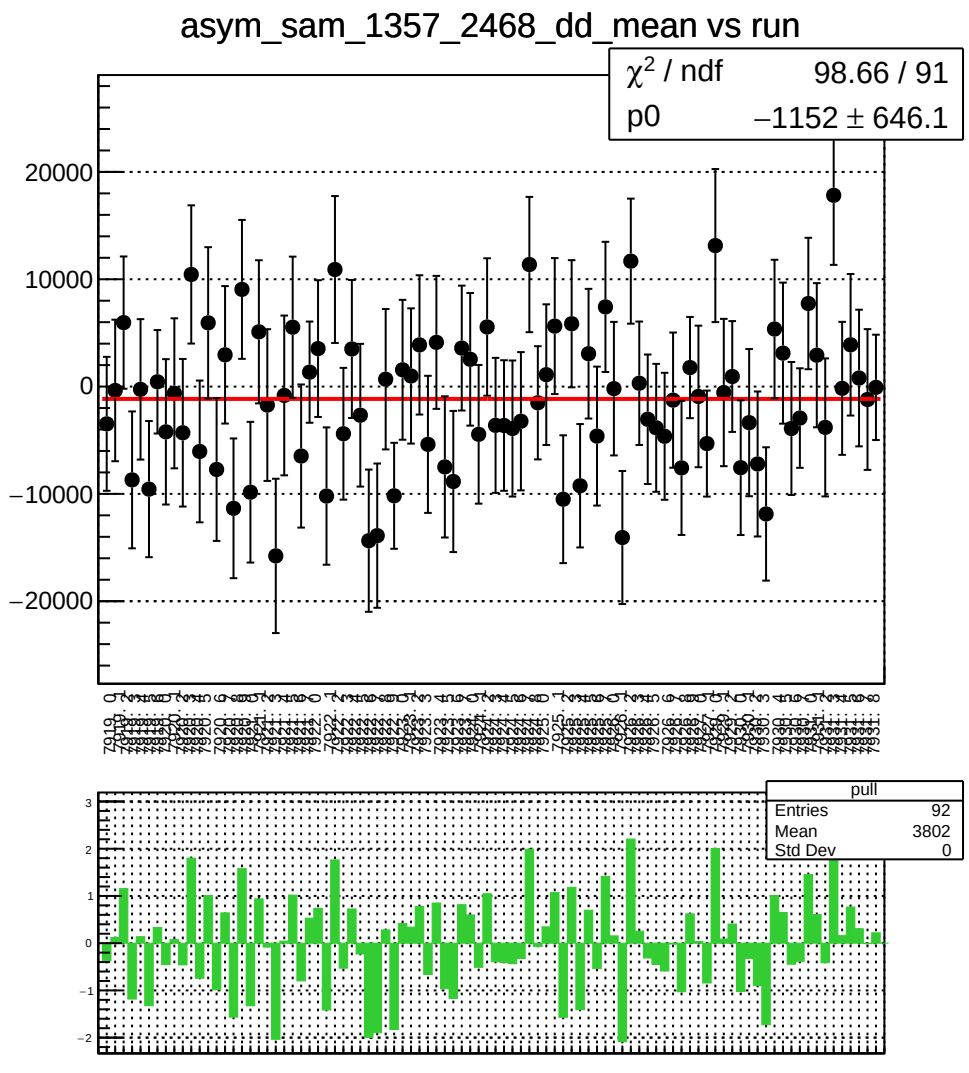

asym_sam_1357_2468_dd_dit_correction_rms vs run
χ² / ndf 3872 / 91
p0 631.8 ± 0.4737
750
700
650
600
550

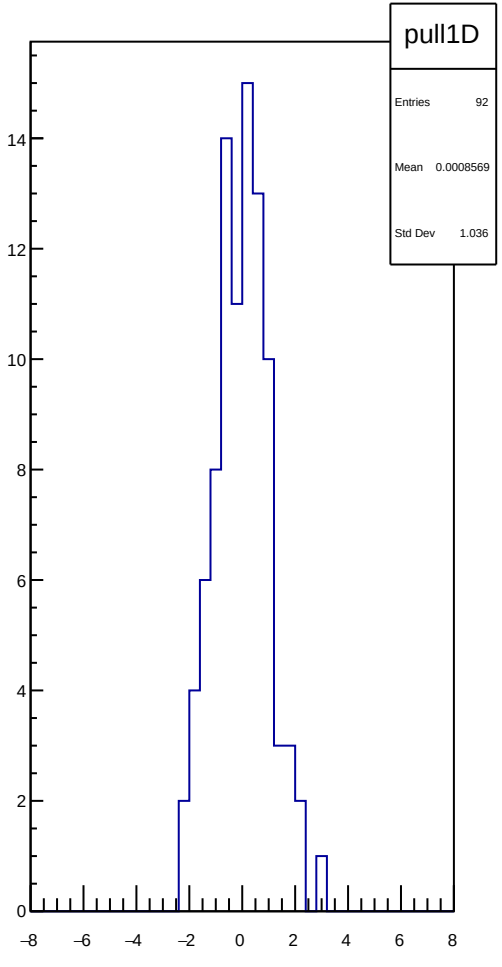

eigen_dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 110.3 / 91
p0 51.35 ± 49.71
pull
Entries 92
Mean −185.6
Std Dev 0
pull1D
Entries 92
Mean −0.002231
Std Dev 1.095

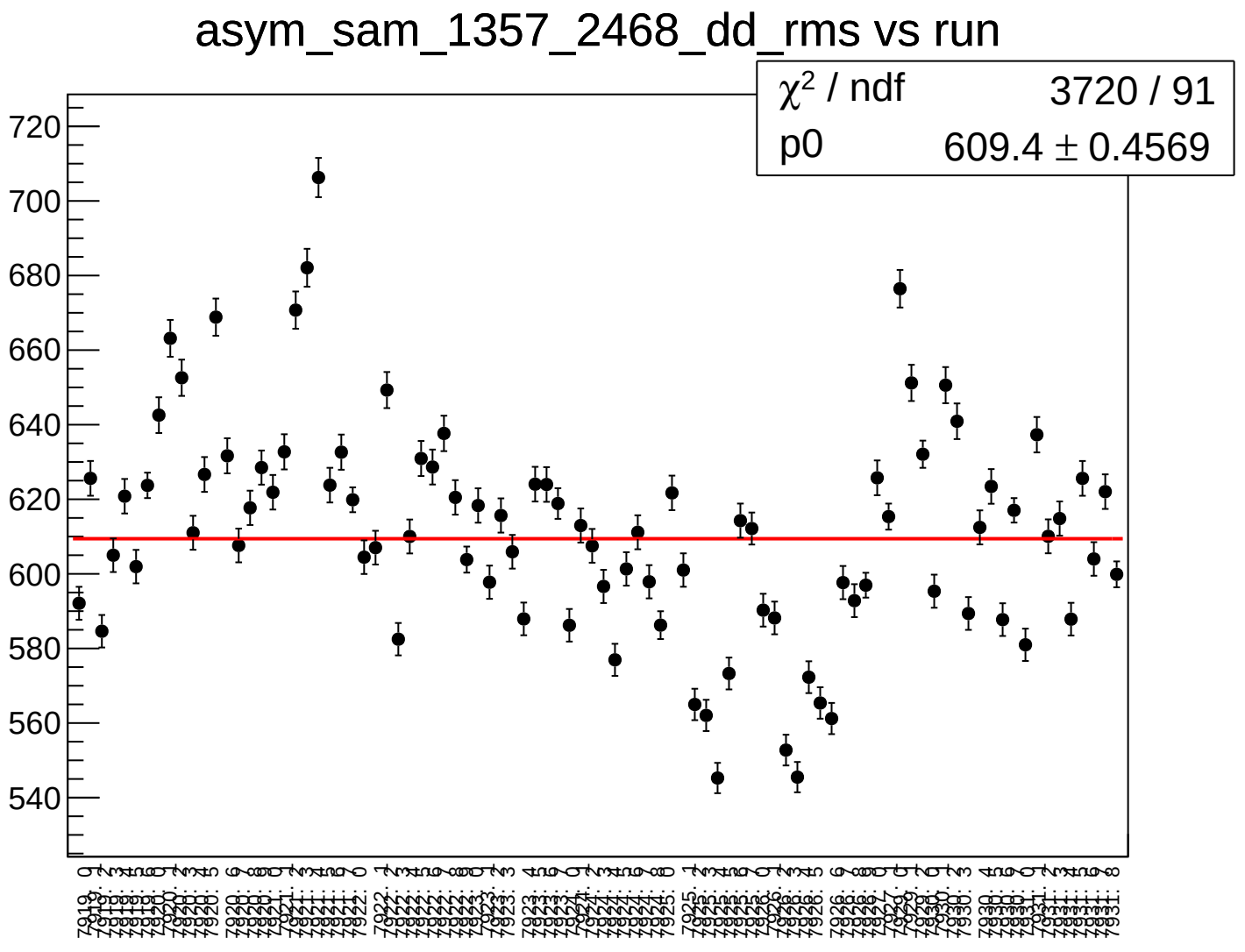

eigen_dit_asym_sam_1357_2468_dd_rms vs run
χ^2 / ndf 1.009e+04 / 91
p0 46.81 ± 0.03515
60
55
50
45
40

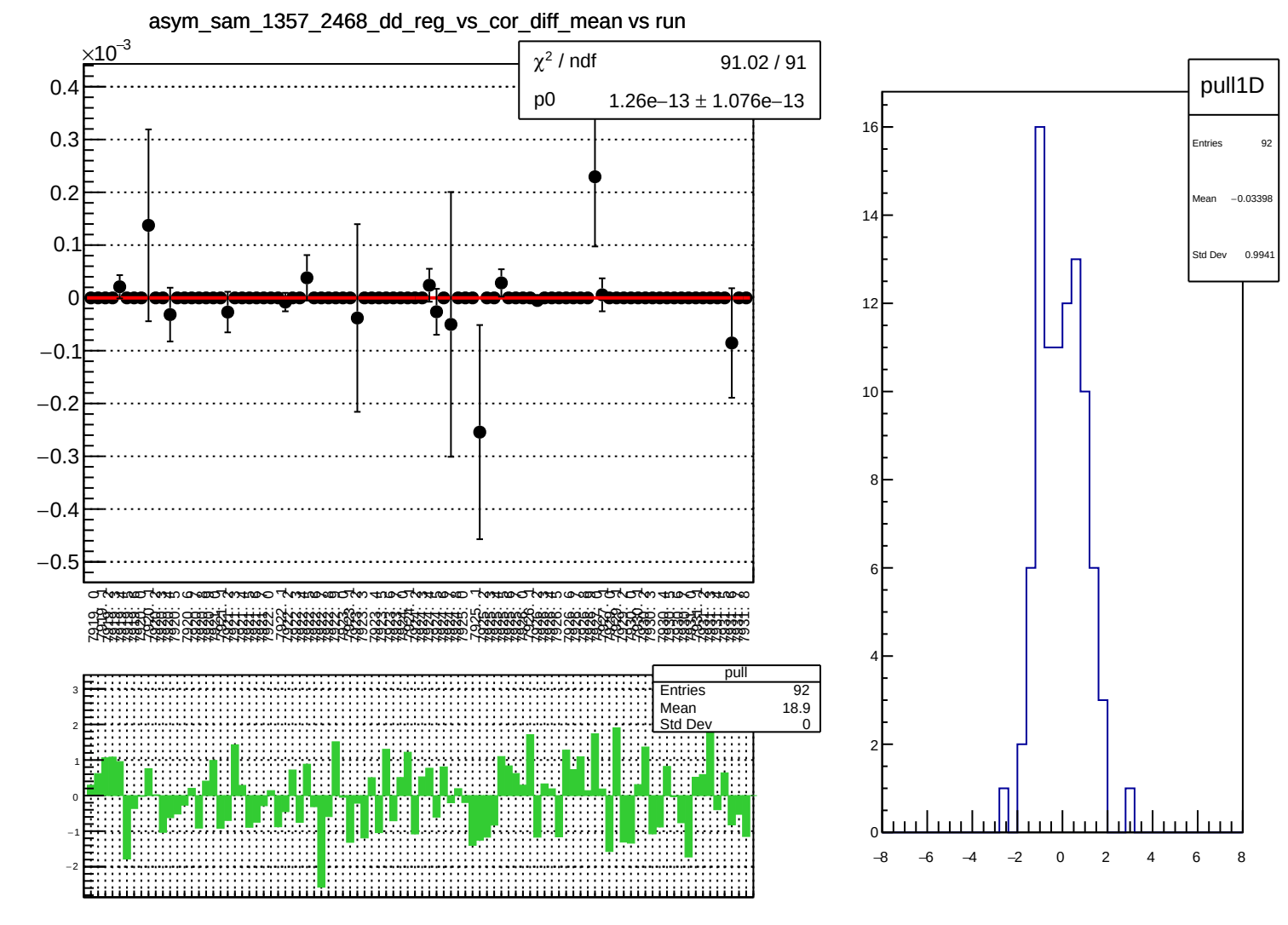

asym_sam_1357_2468_dd_eigen_dit_correction_mean vs run
χ² / ndf 101.4 / 91
p0 1189 ± 669.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −3.194e+04
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean 9.598e−05
Std Dev 1.05
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

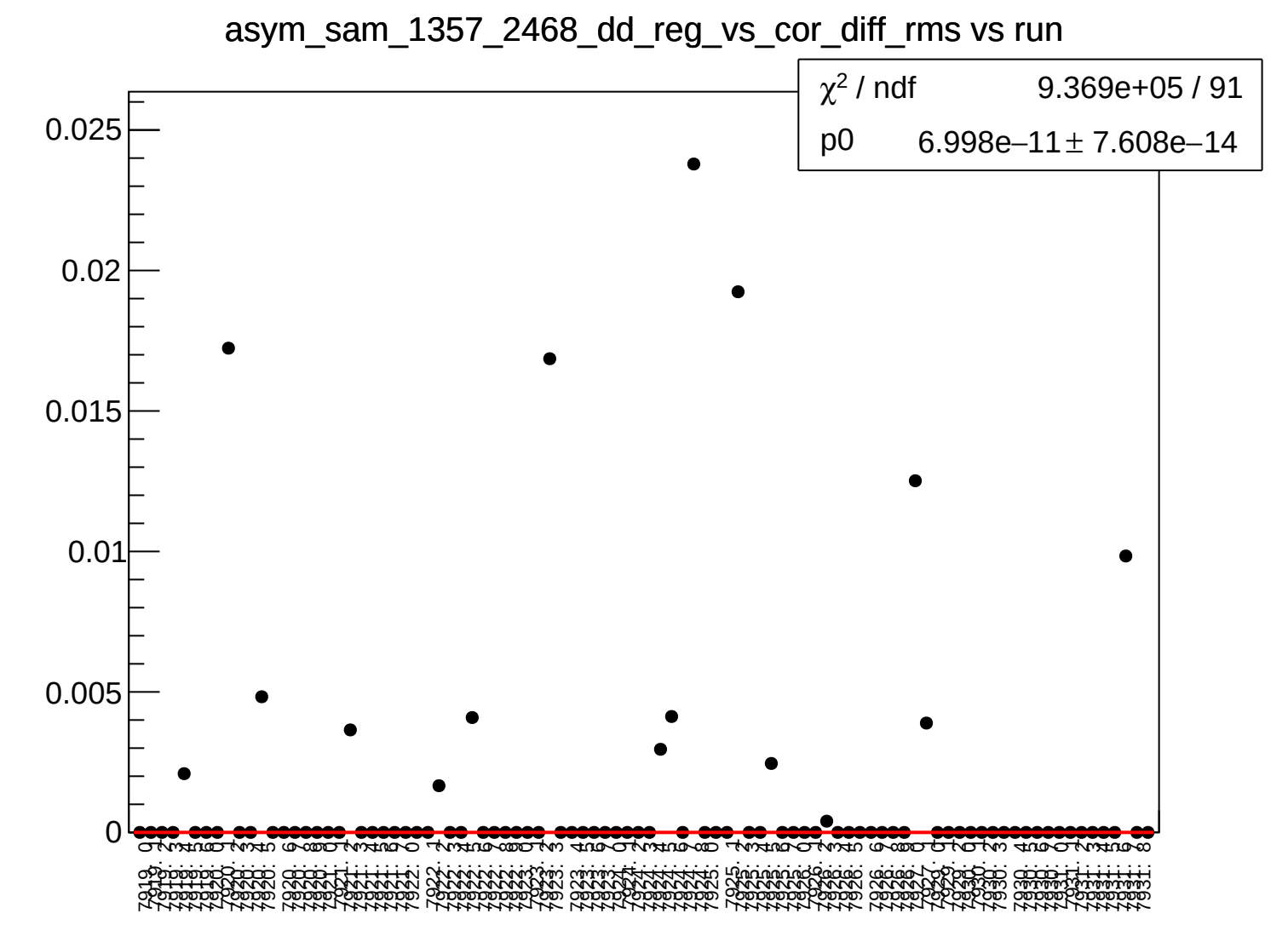

asym_sam_1357_2468_dd_eigen_dit_correction_rms vs run
χ² / ndf 3872 / 91
p0 631.8 ± 0.4737
750
700
650
600
550

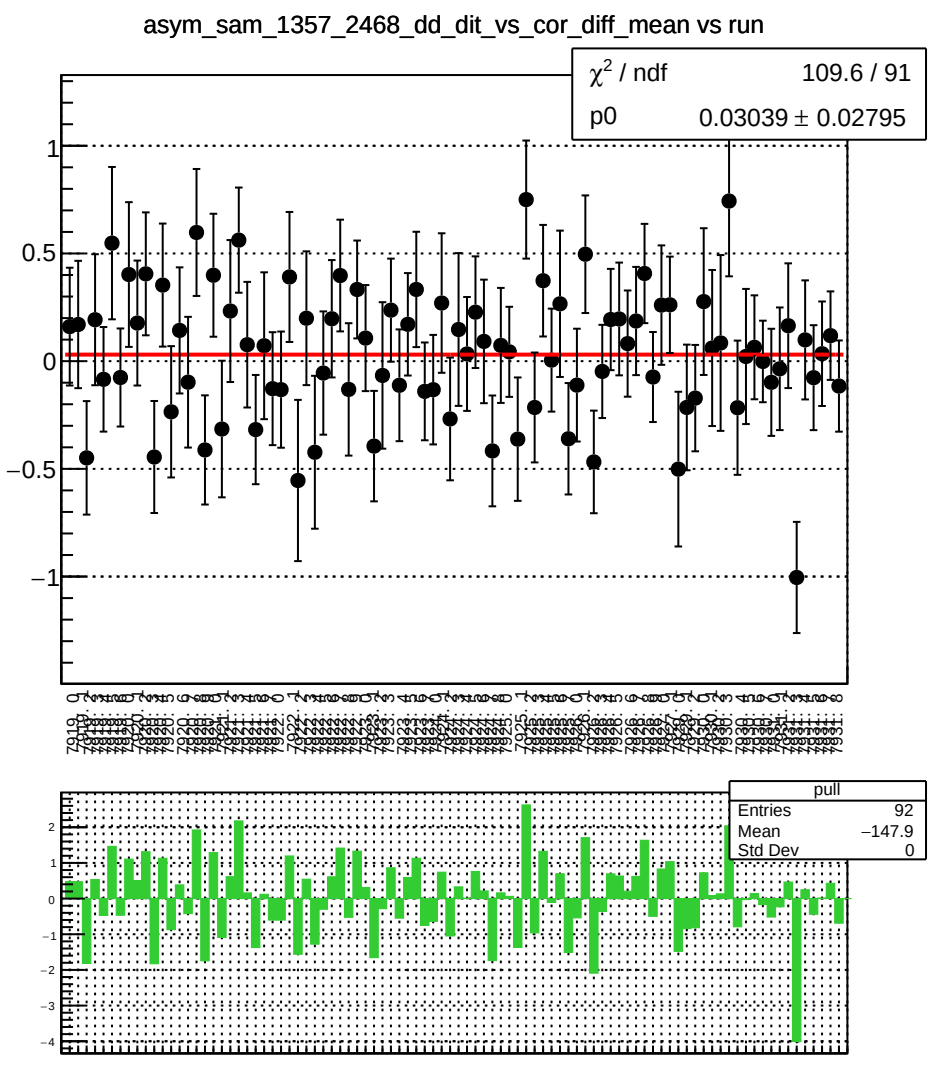

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 98.66 / 91
p0 −1152 ± 646.1
20000
10000
0
−10000
−20000
pull
Entries 92
Mean 3802
Std Dev 0
3
2
1
0
−1
−2

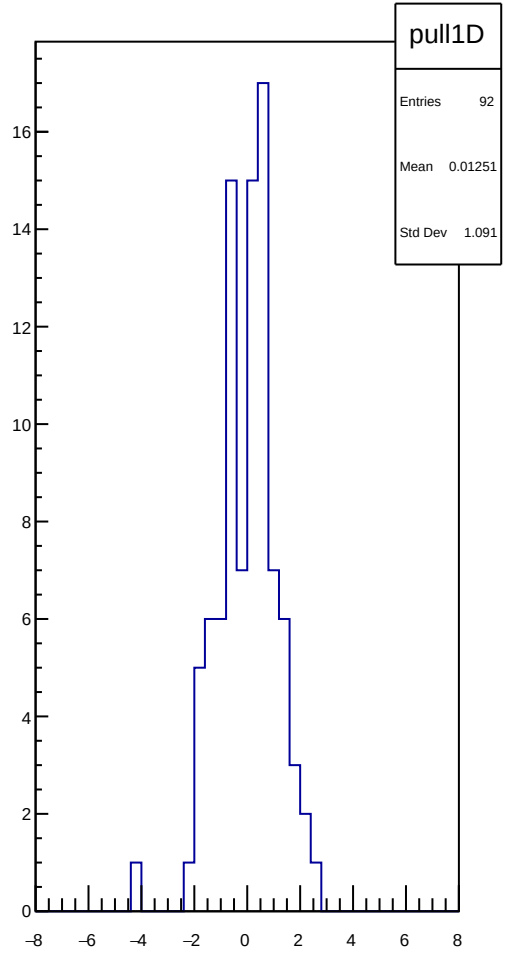

pull1D
Entries 92
Mean 0.0008569
Std Dev 1.036
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

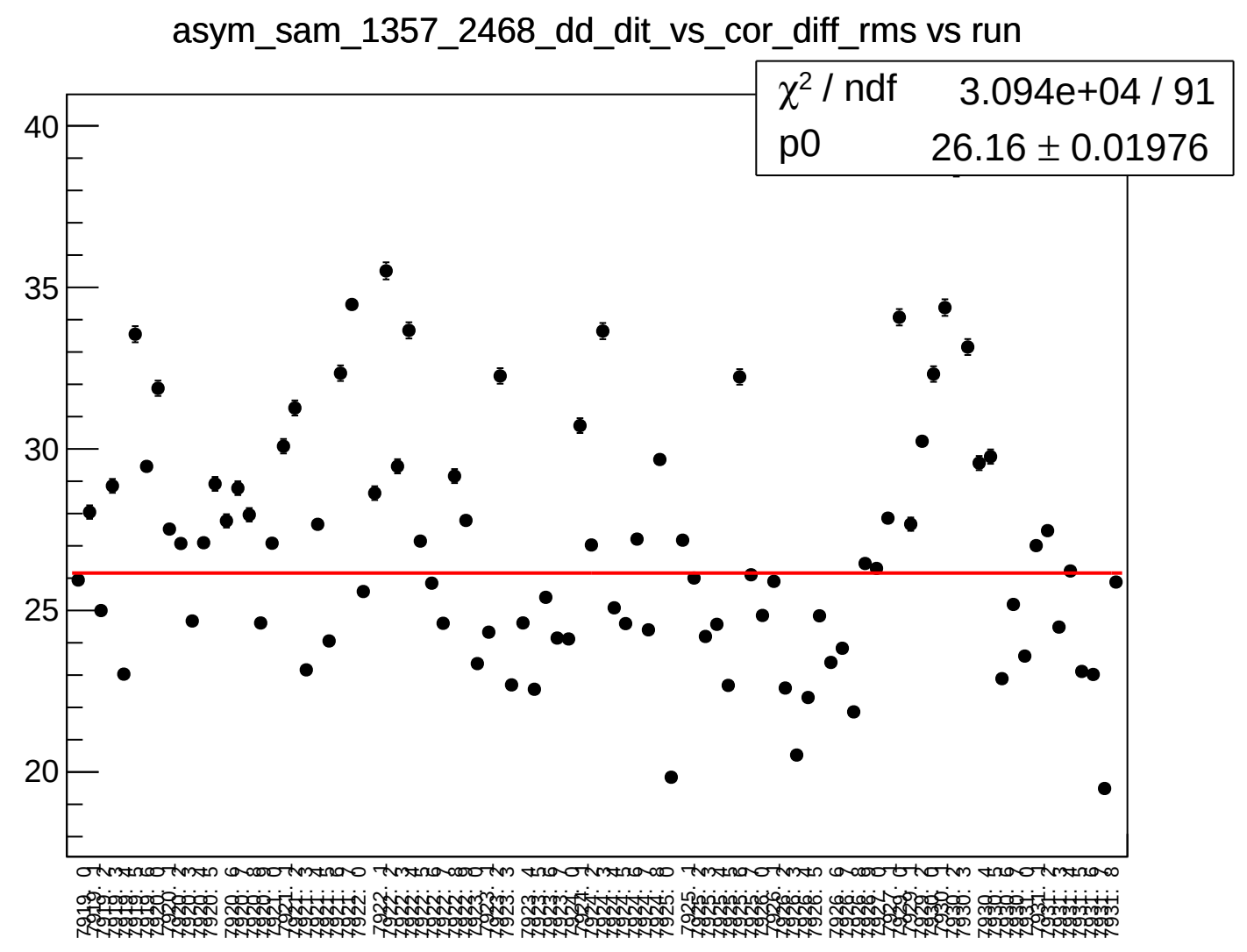

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 3720 / 91
p0 609.4 ± 0.4569
720
700
680
660
640
620
600
580
560
540

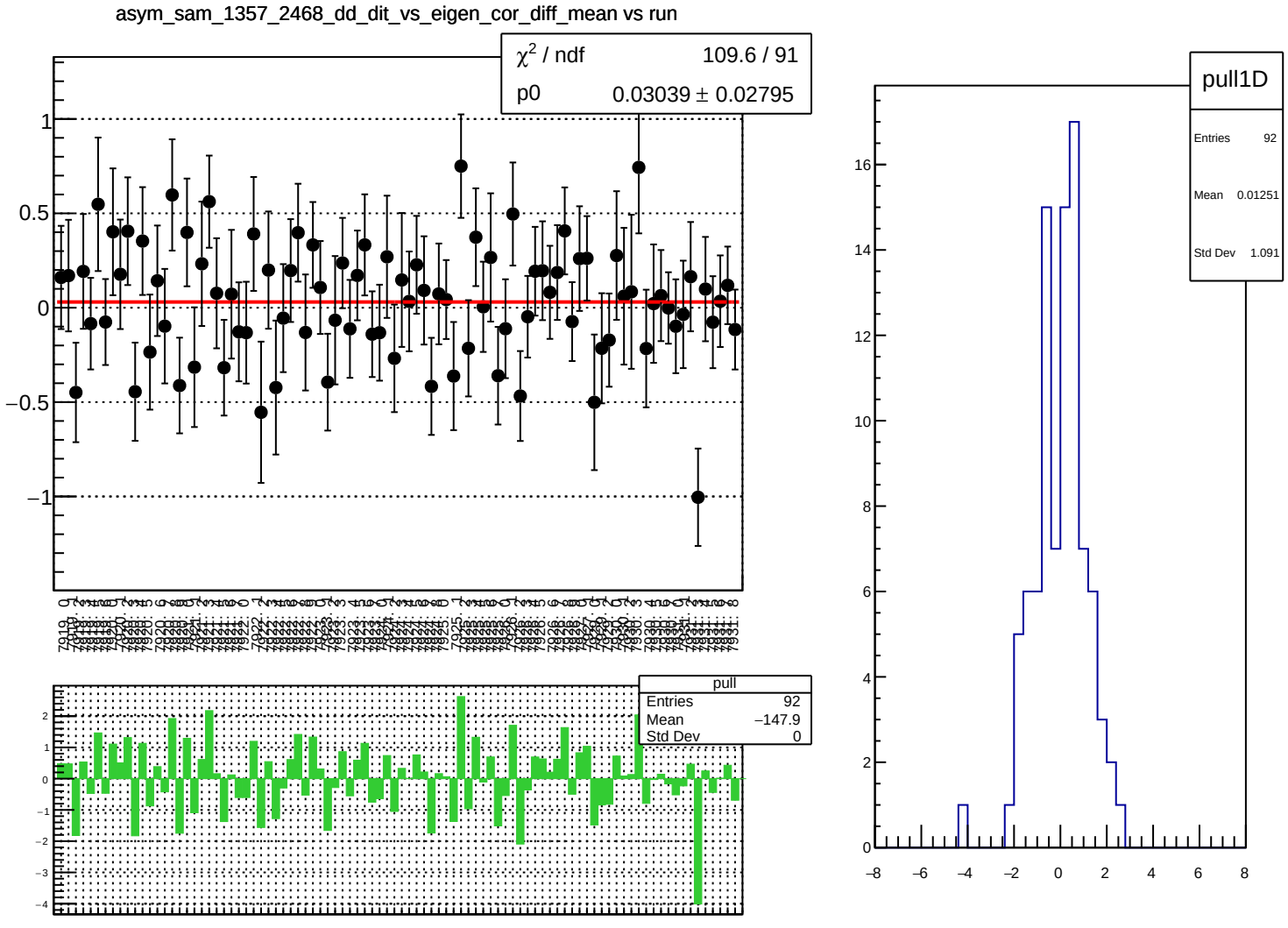

asym_sam_1357_2468_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 91.02 / 91
p0 1.26e−13 ± 1.076e−13
pull
Entries 92
Mean 18.9
Std Dev 0
pull1D
Entries 92
Mean −0.03398
Std Dev 0.9941

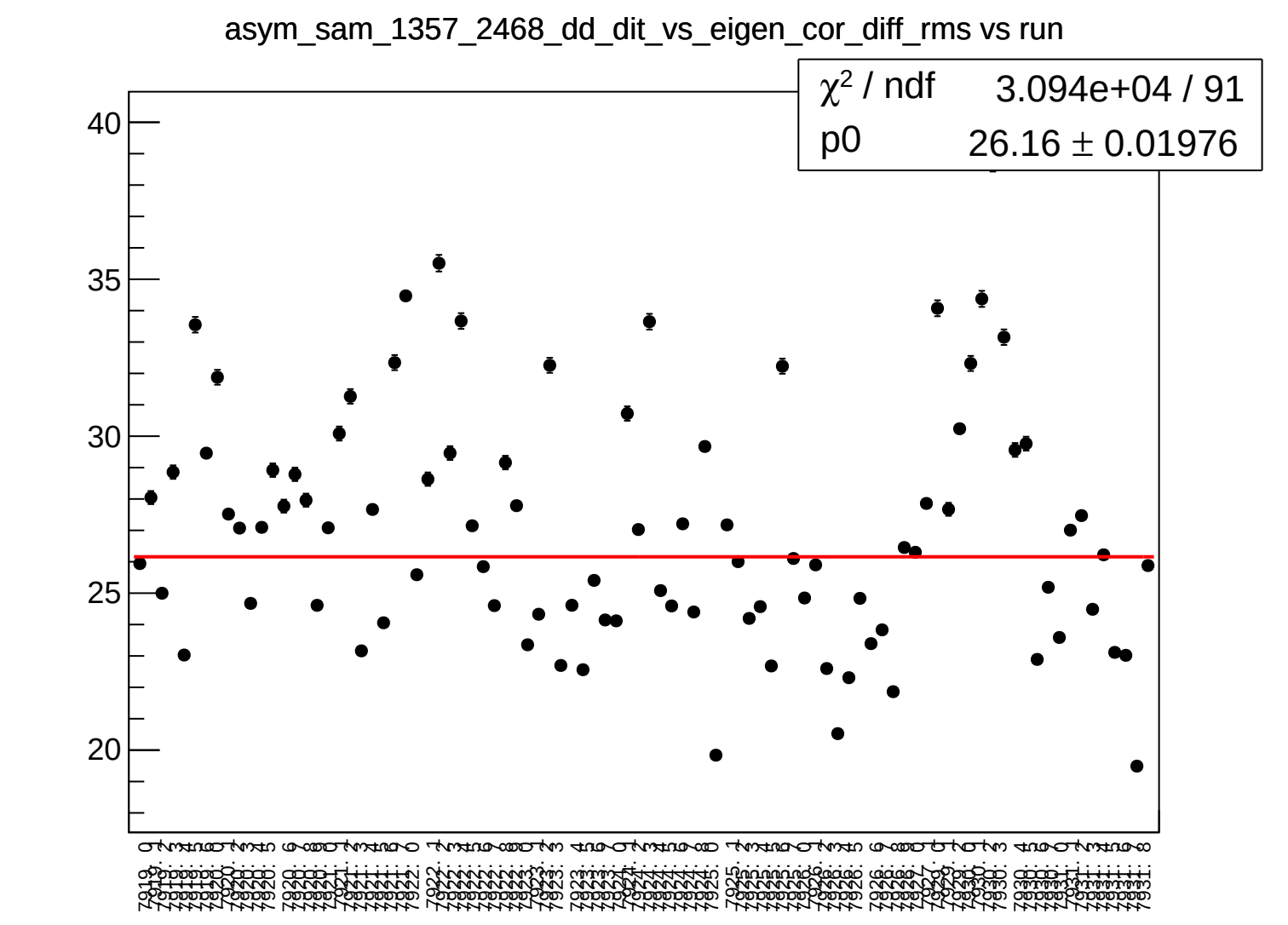

asym_sam_1357_2468_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.369e+05 / 91
p0 6.998e−11 ± 7.608e−14
0.025
0.02
0.015
0.01
0.005
0

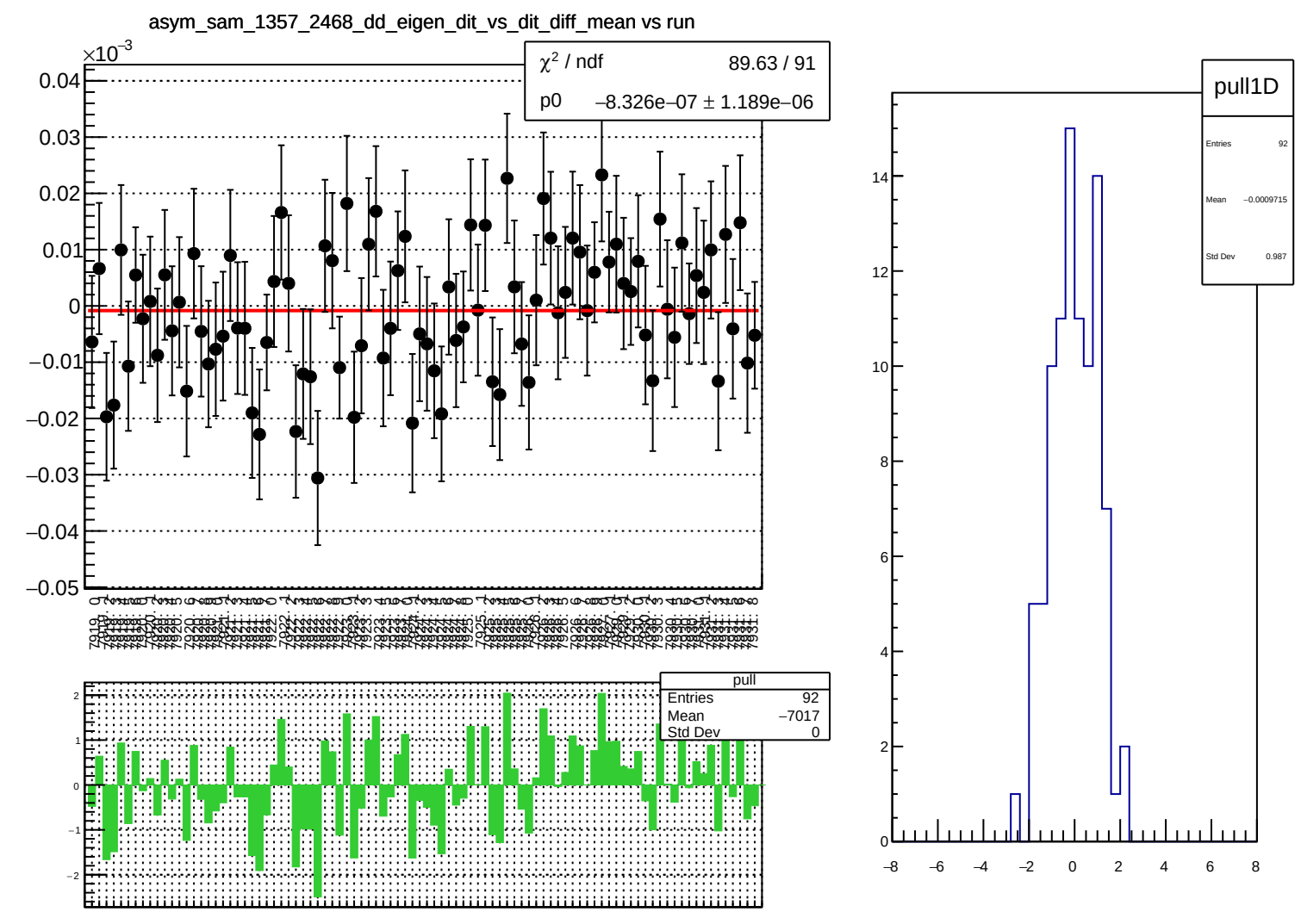

asym_sam_1357_2468_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 109.6 / 91
p0 0.03039 ± 0.02795
pull
Entries 92
Mean −147.9
Std Dev 0

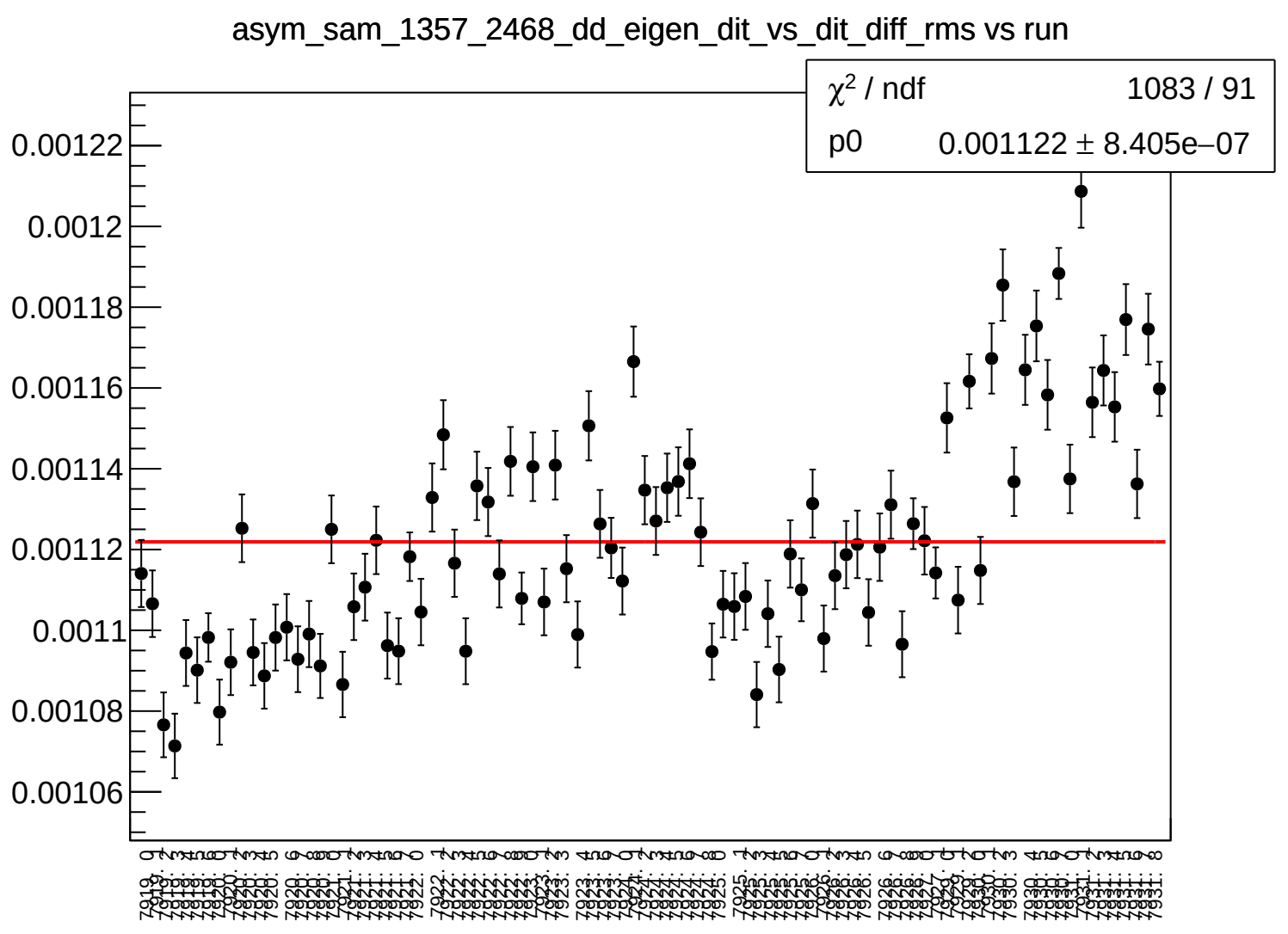

pull1D
Entries 92
Mean 0.01251
Std Dev 1.091

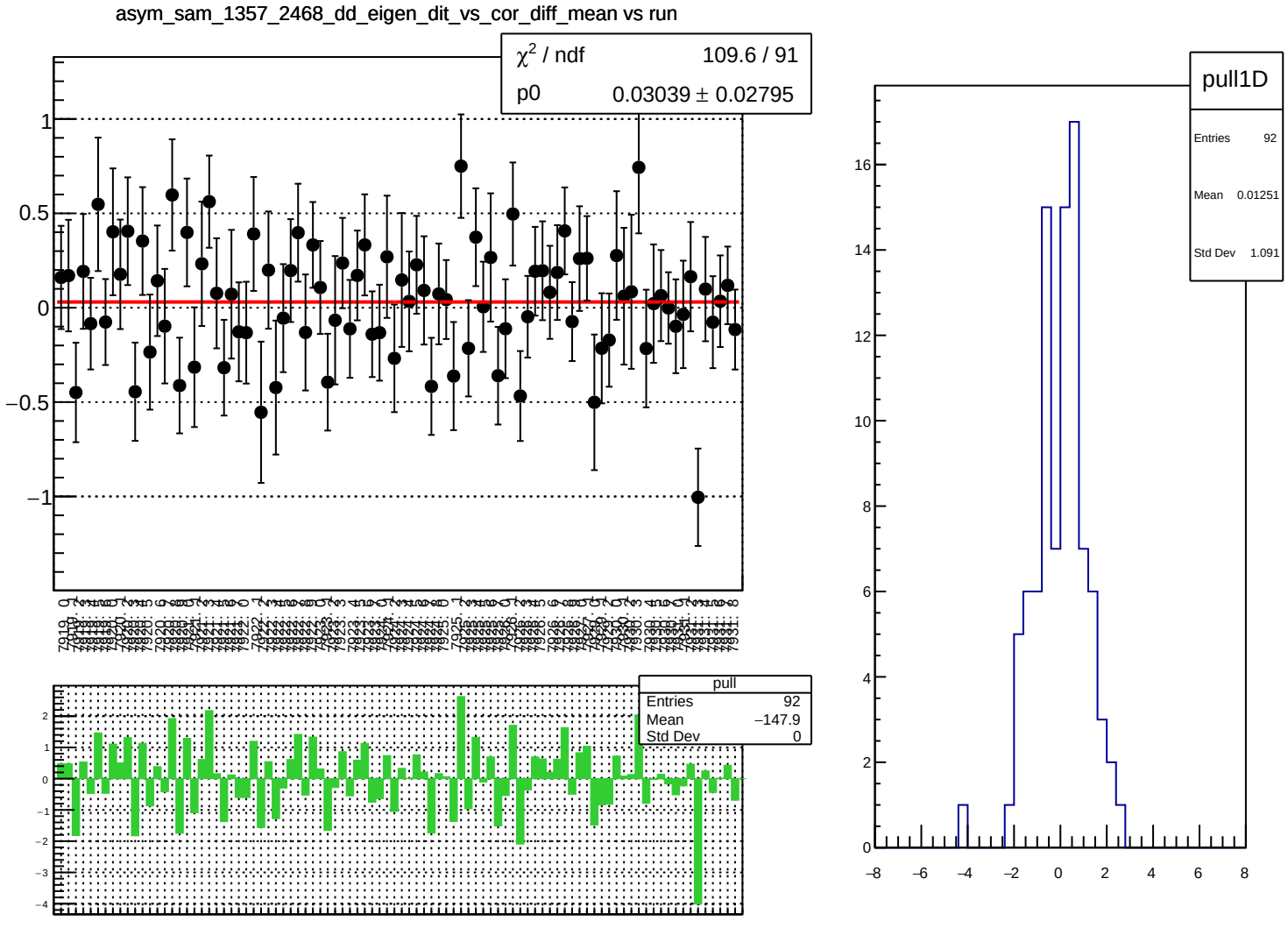

asym_sam_1357_2468_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.094e+04 / 91
p0 26.16 ± 0.01976
40
35
30
25
20

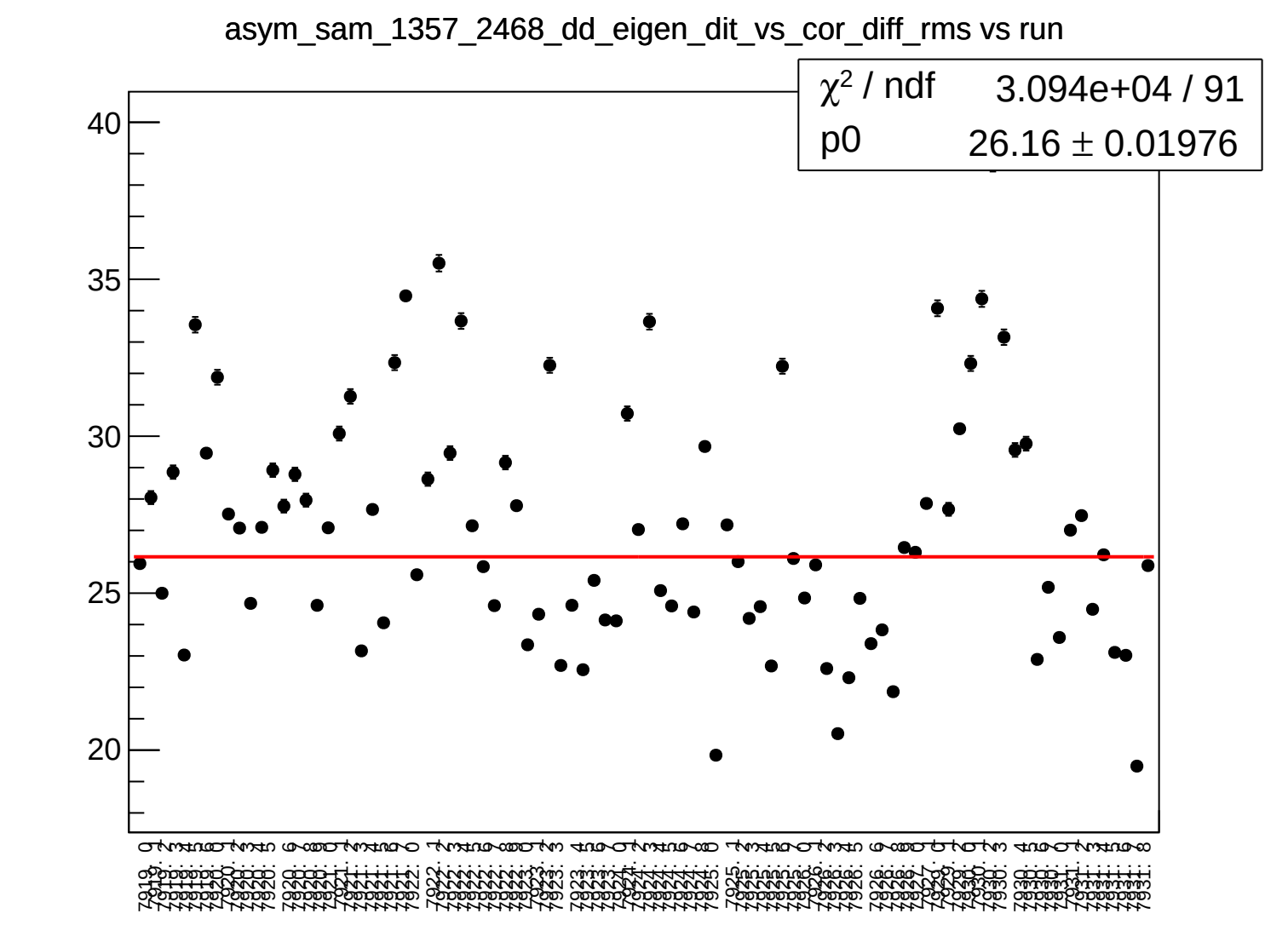

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.6 / 91
p0 0.03039 ± 0.02795
pull
Entries 92
Mean −147.9
Std Dev 0
pull1D
Entries 92
Mean 0.01251
Std Dev 1.091

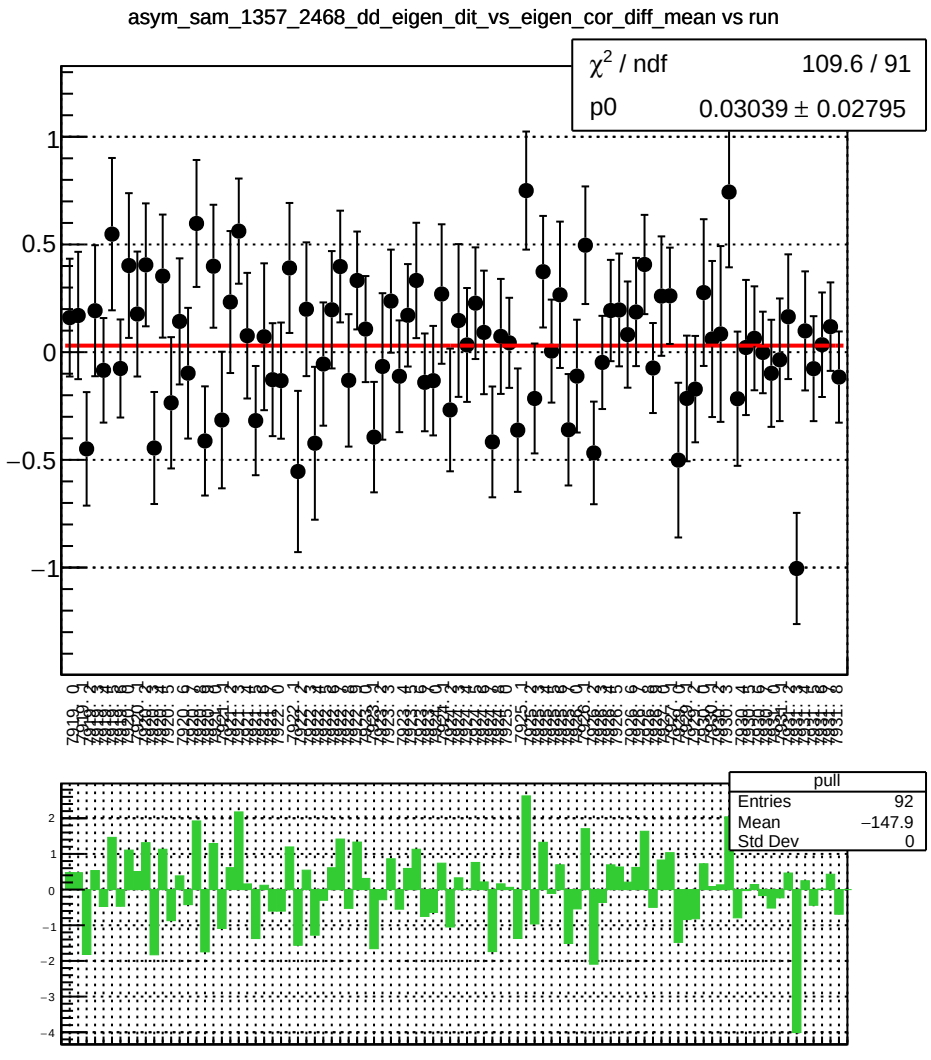

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.094e+04 / 91
p0 26.16 ± 0.01976
40
35
30
25
20

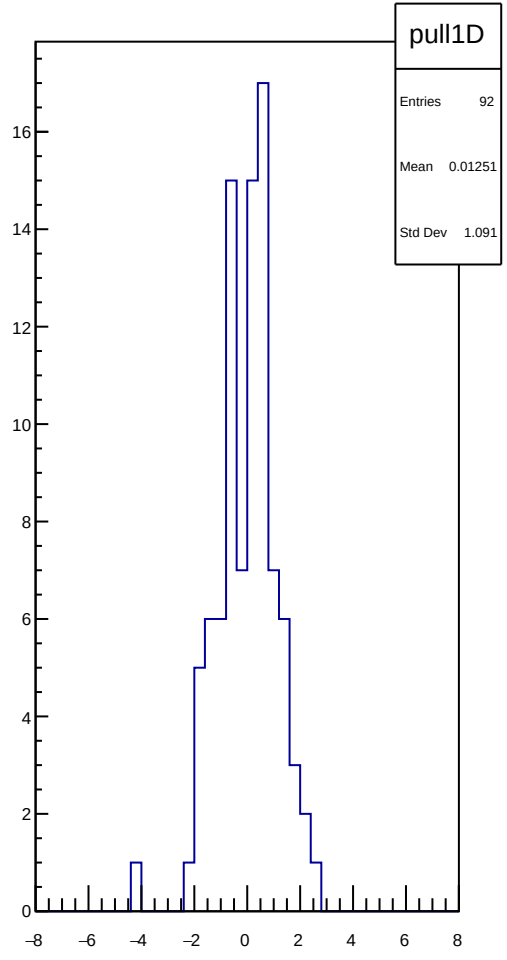

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.63 / 91
p0 −8.326e−07 ± 1.189e−06
pull
Entries 92
Mean −7017
Std Dev 0
pull1D
Entries 92
Mean −0.0009715
Std Dev 0.987

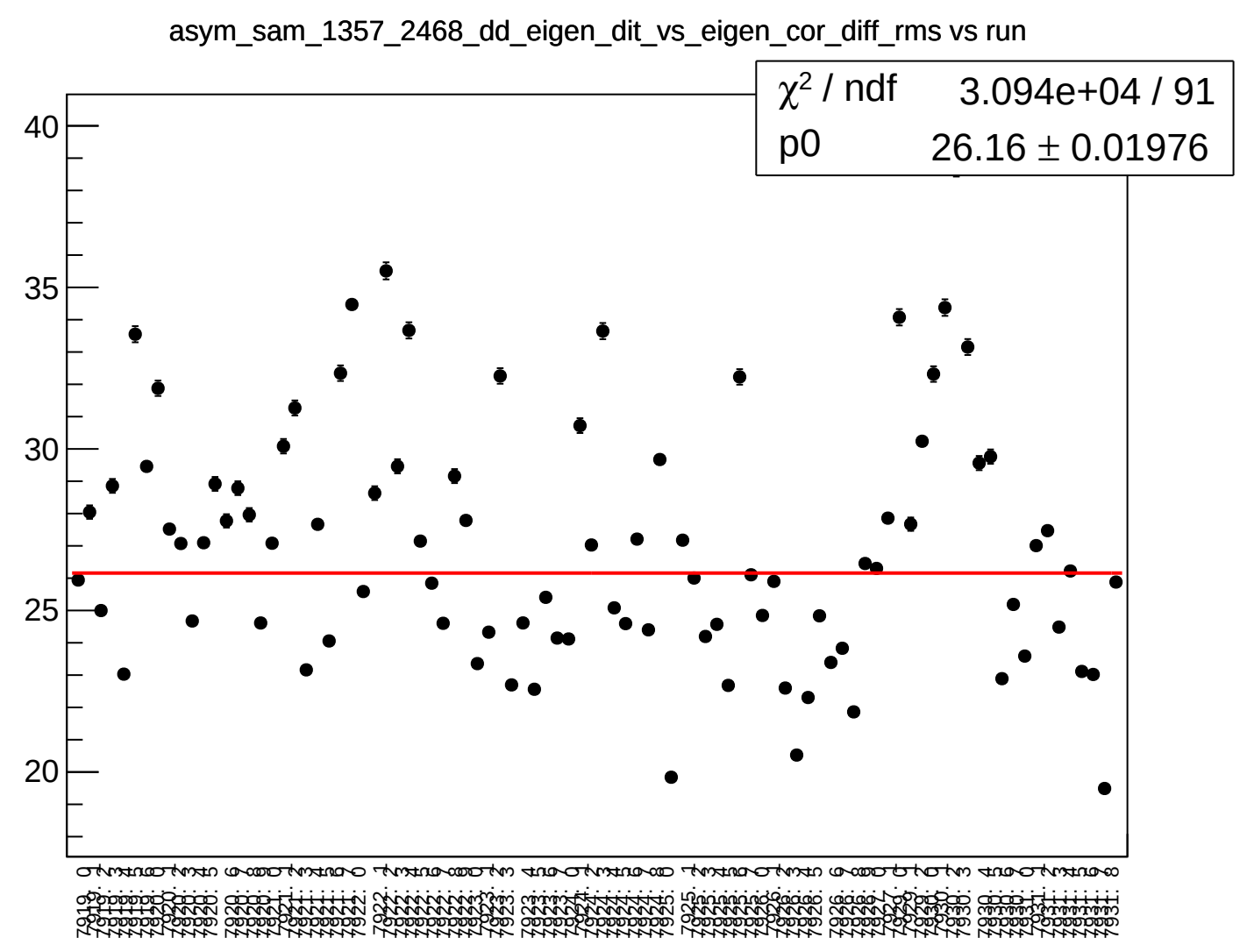

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1083 / 91
p0 0.001122 ± 8.405e−07
0.00122
0.0012
0.00118
0.00116
0.00114
0.00112
0.0011
0.00108
0.00106

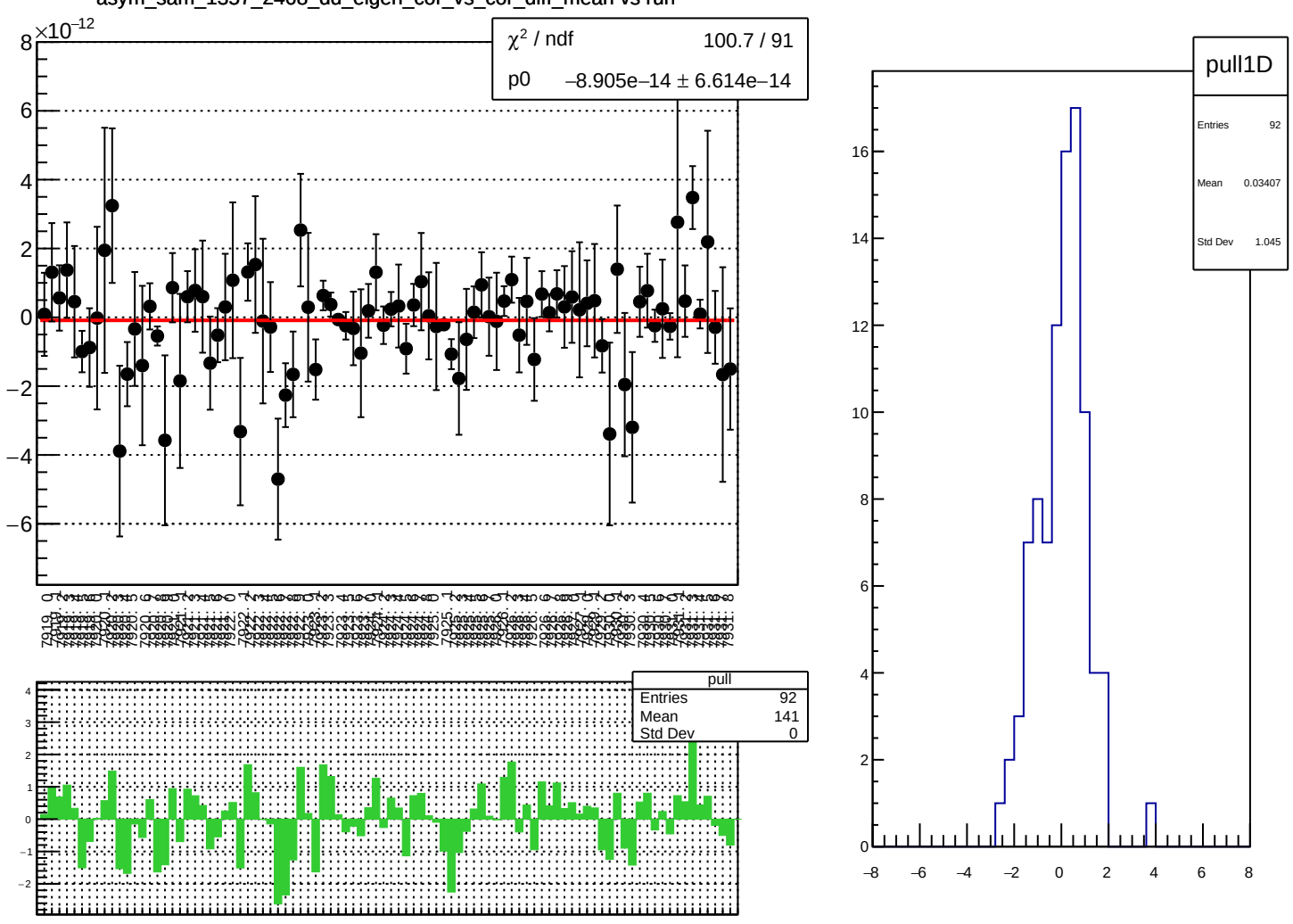

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 109.6 / 91
p0 0.03039 ± 0.02795
pull
Entries 92
Mean −147.9
Std Dev 0
pull1D
Entries 92
Mean 0.01251
Std Dev 1.091

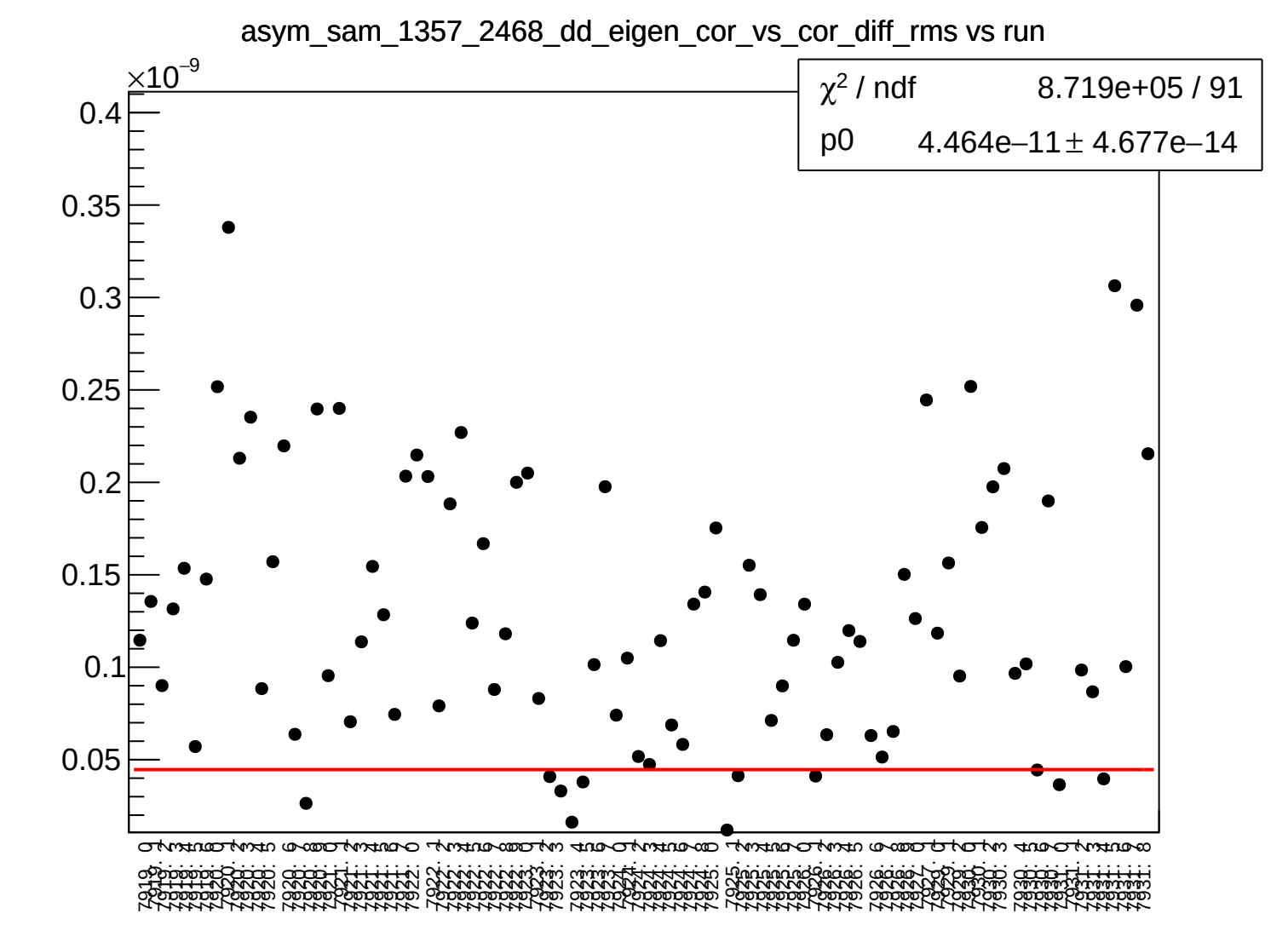

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.094e+04 / 91
p0 26.16 ± 0.01976
40
35
30
25
20

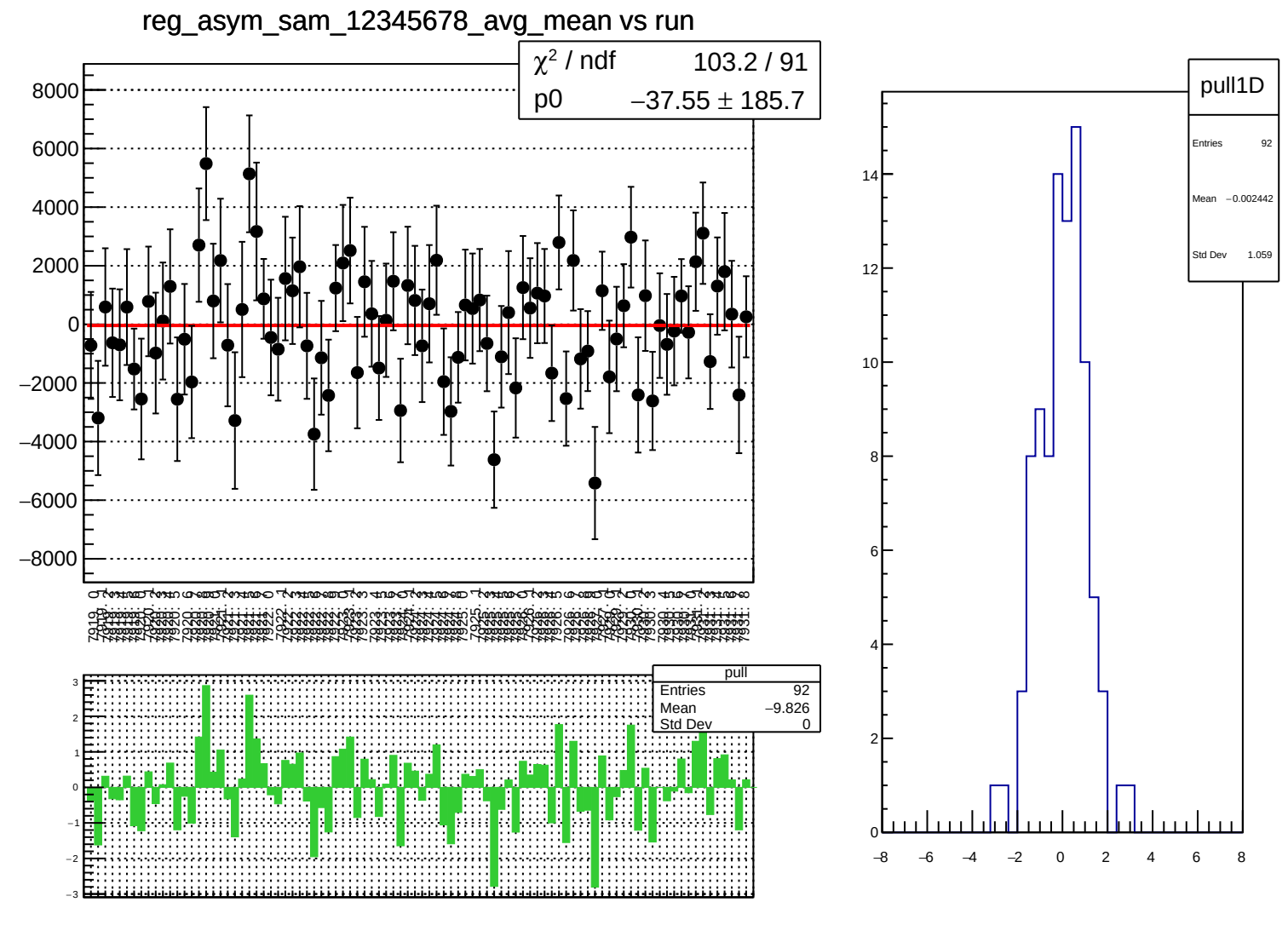

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.6 / 91
p0 0.03039 ± 0.02795
pull
Entries 92
Mean −147.9
Std Dev 0

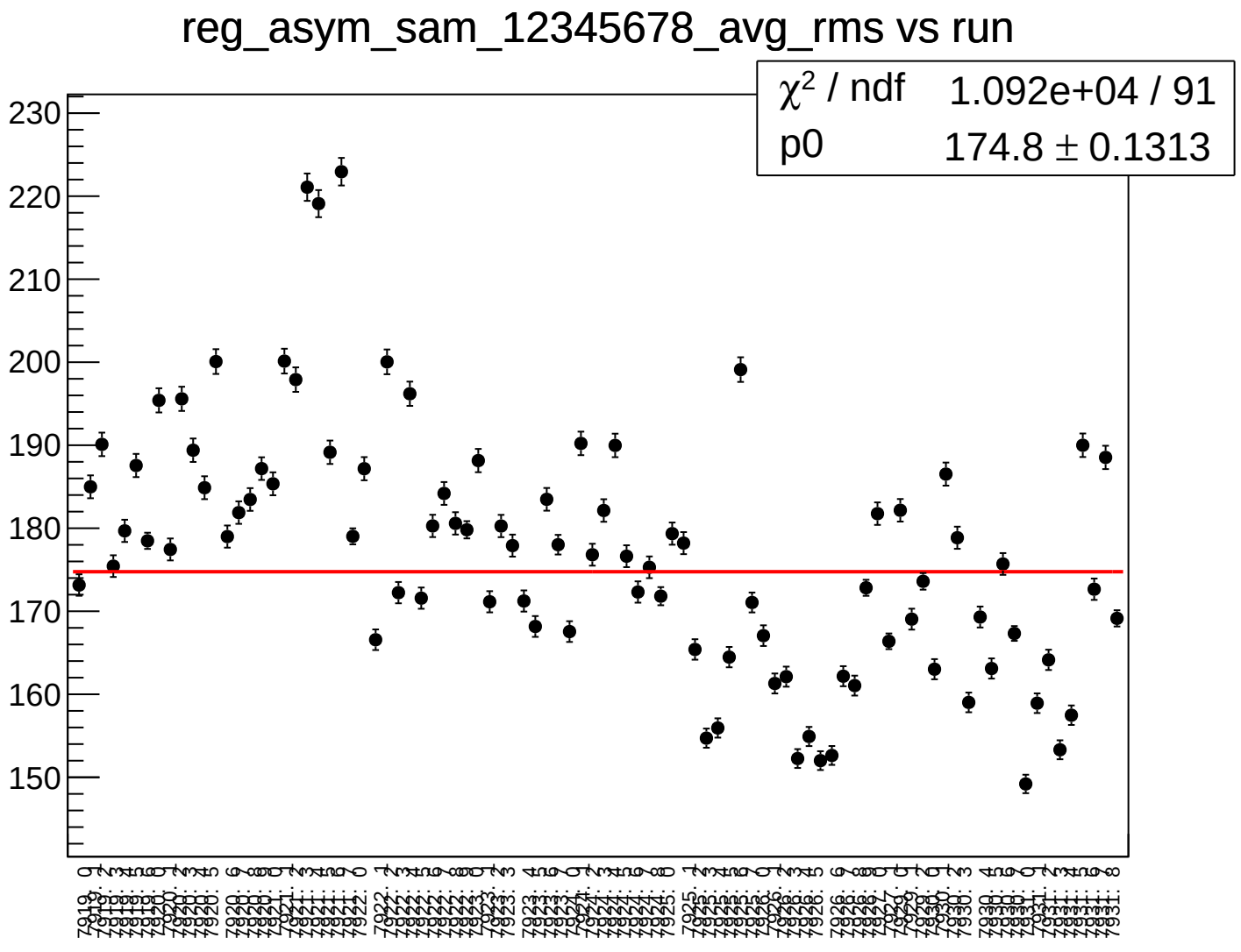

pull1D
Entries 92
Mean 0.01251
Std Dev 1.091

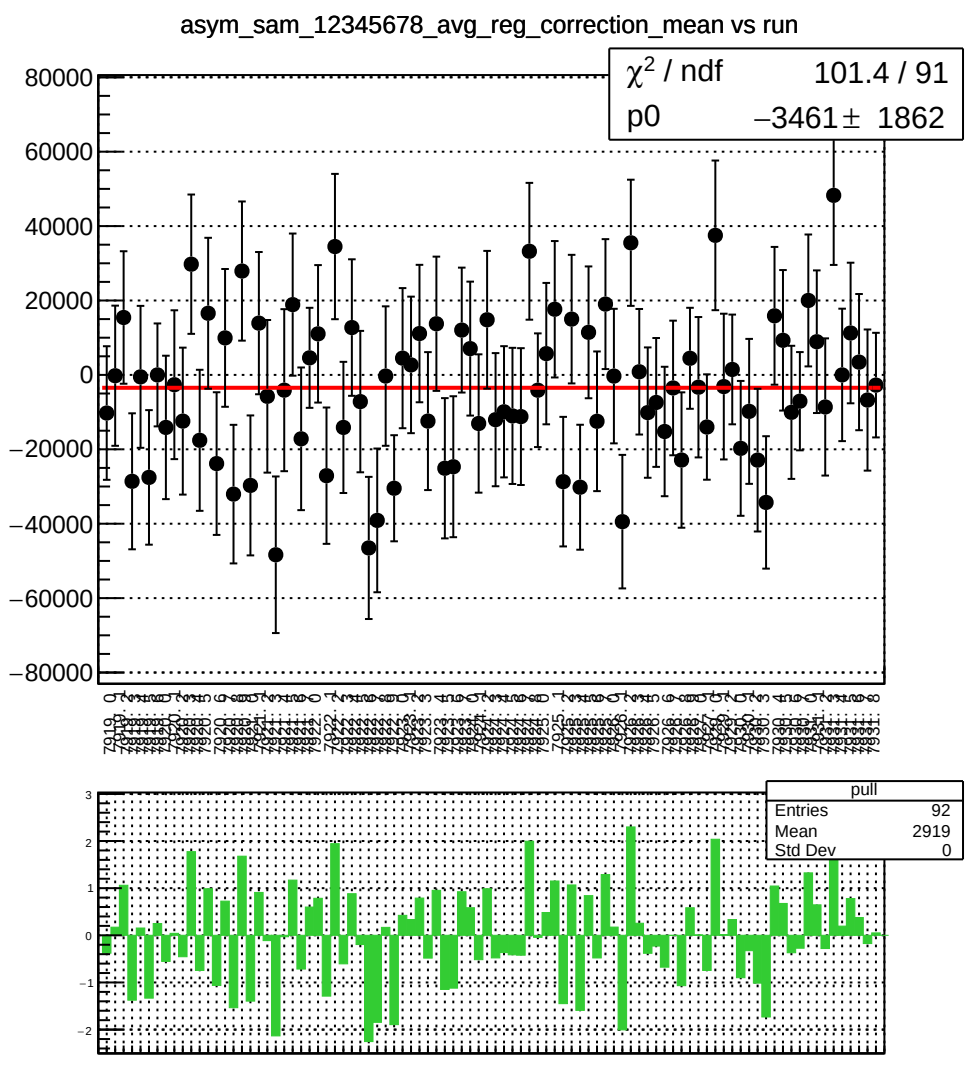

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.094e+04 / 91
p0 26.16 ± 0.01976
40
35
30
25
20

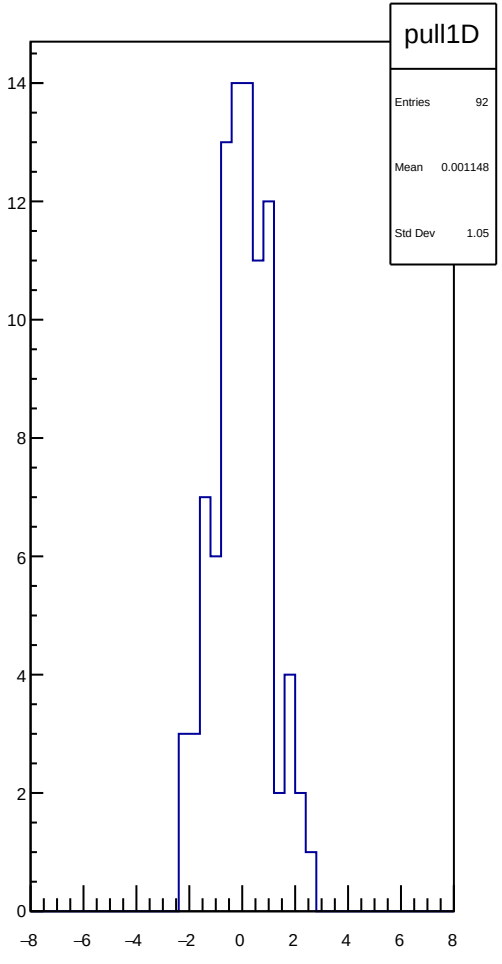

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 100.7 / 91
p0 −8.905e−14 ± 6.614e−14
pull
Entries 92
Mean 141
Std Dev 0
pull1D
Entries 92
Mean 0.03407
Std Dev 1.045

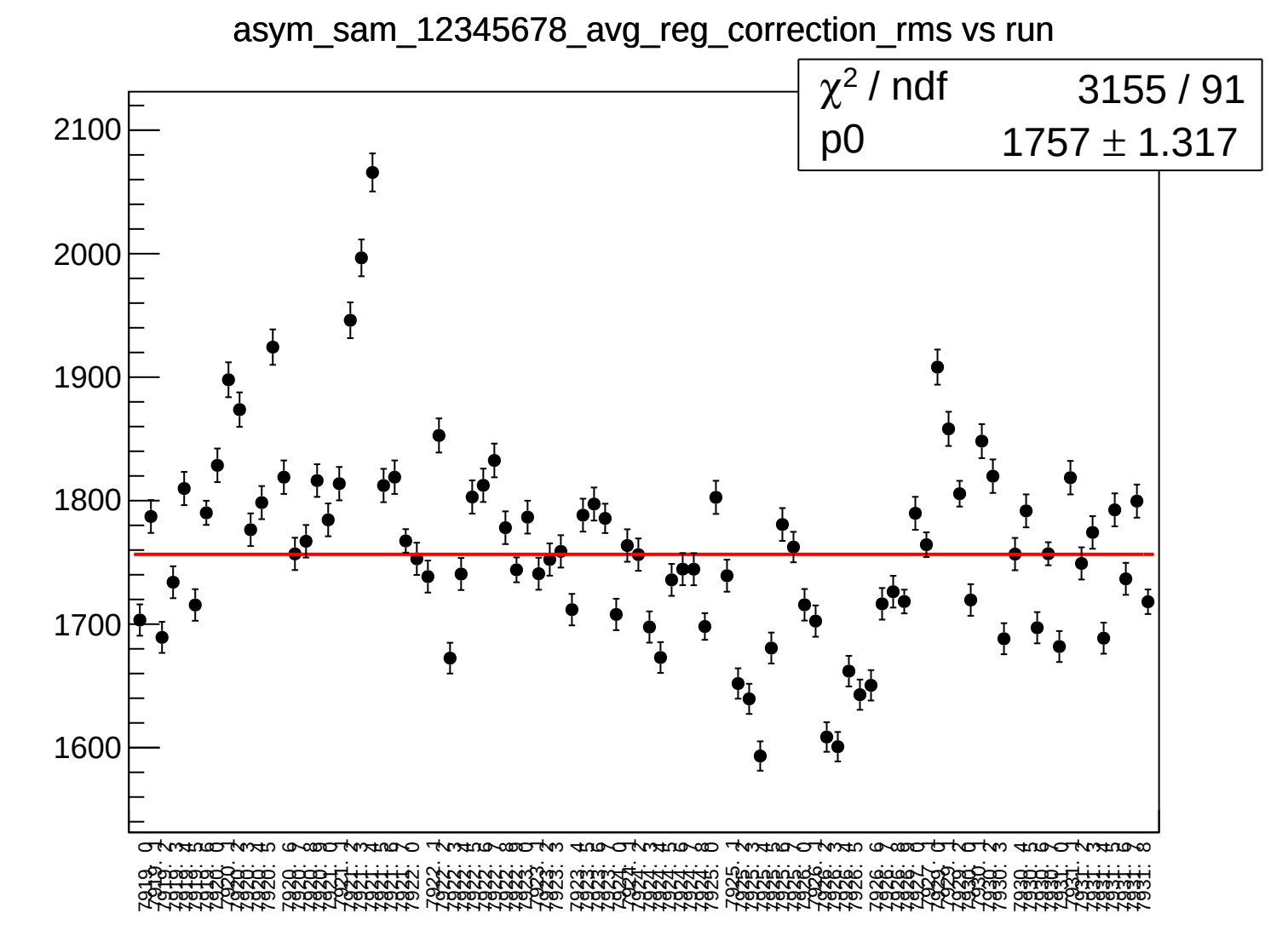

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.719e+05 / 91
p0 4.464e−11 ± 4.677e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

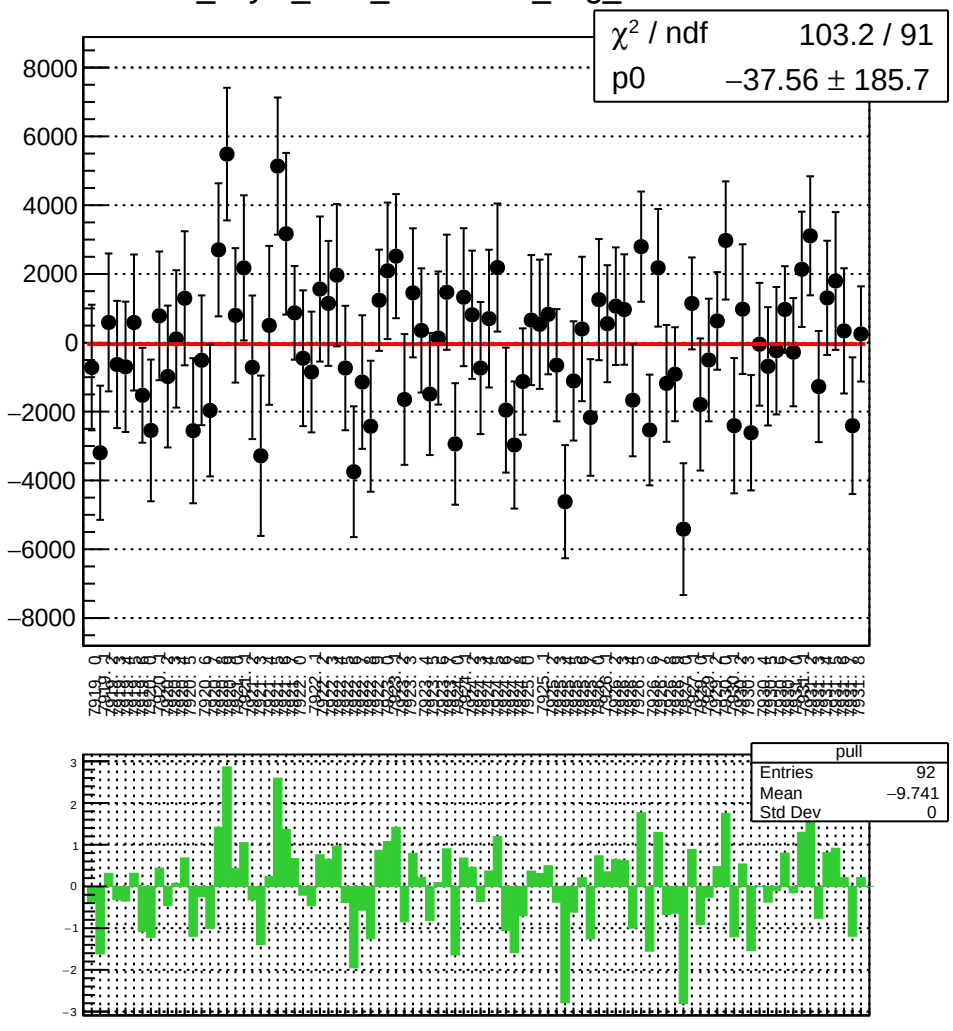

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 103.2 / 91
p0 −37.55 ± 185.7
pull
Entries 92
Mean −9.826
Std Dev 0
pull1D
Entries 92
Mean −0.002442
Std Dev 1.059

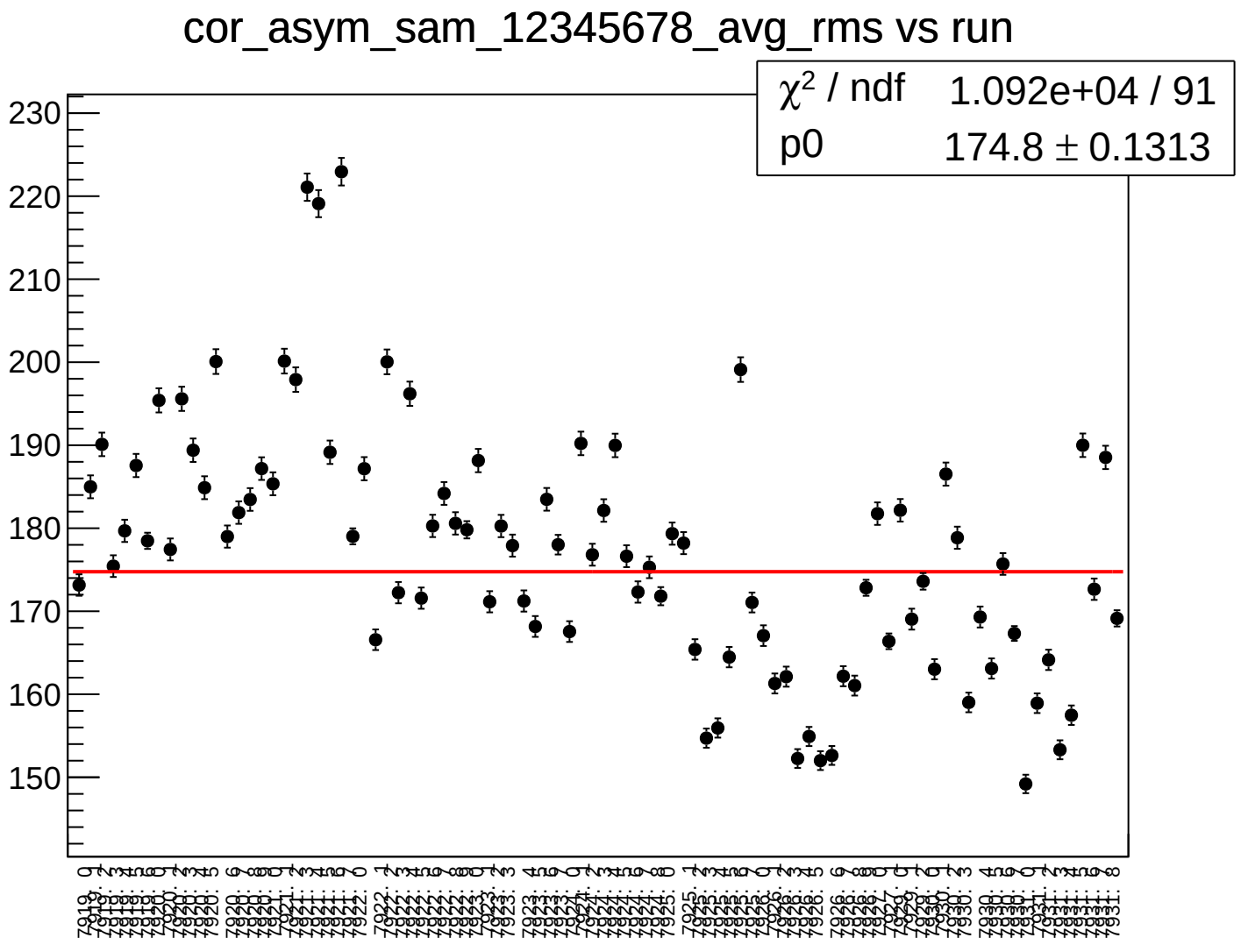

reg_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.092e+04 / 91
p0 174.8 ± 0.1313
230
220
210
200
190
180
170
160
150

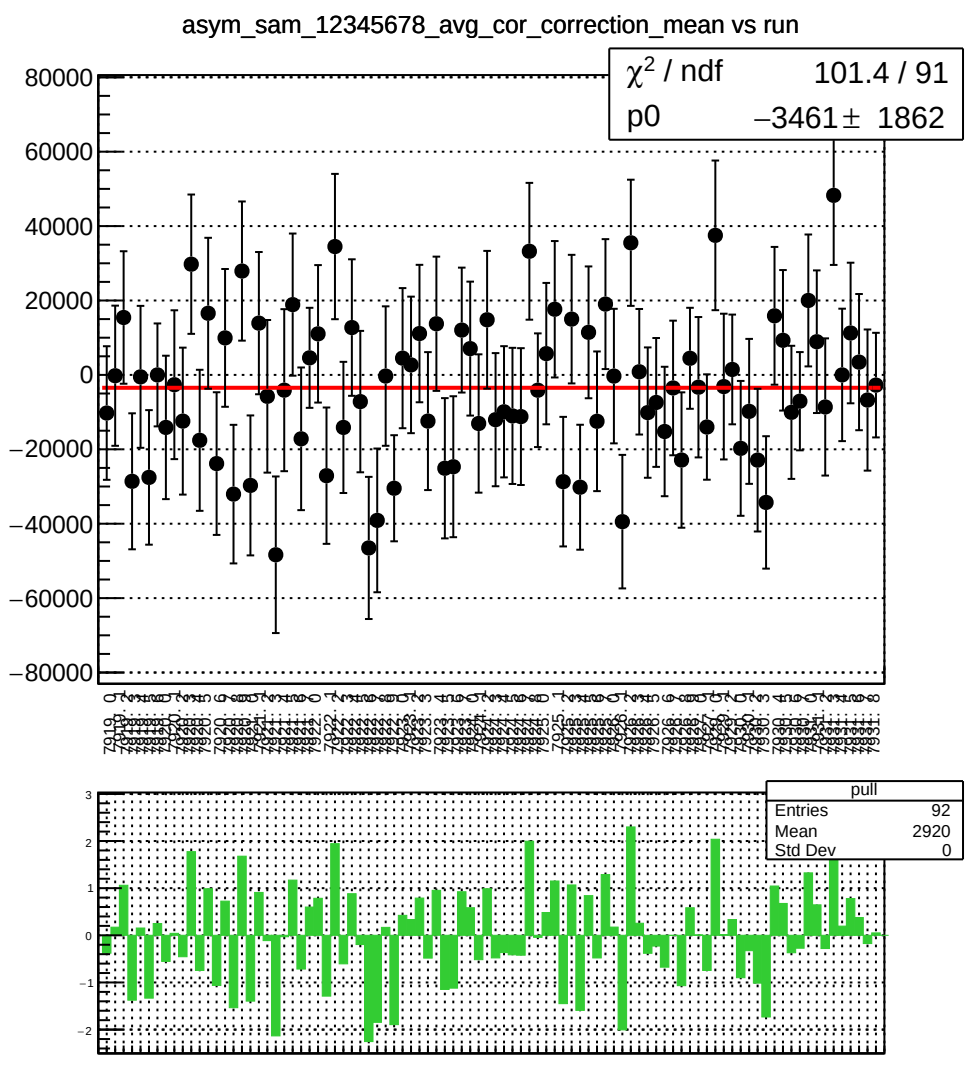

asym_sam_12345678_avg_reg_correction_mean vs run
χ² / ndf 101.4 / 91
p0 −3461 ± 1862
pull
Entries 92
Mean 2919
Std Dev 0

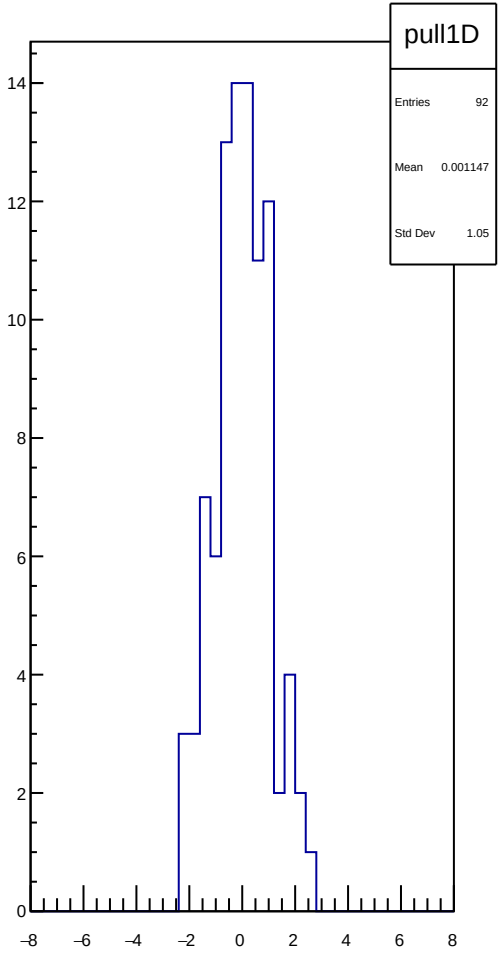

pull1D
Entries 92
Mean 0.001148
Std Dev 1.05

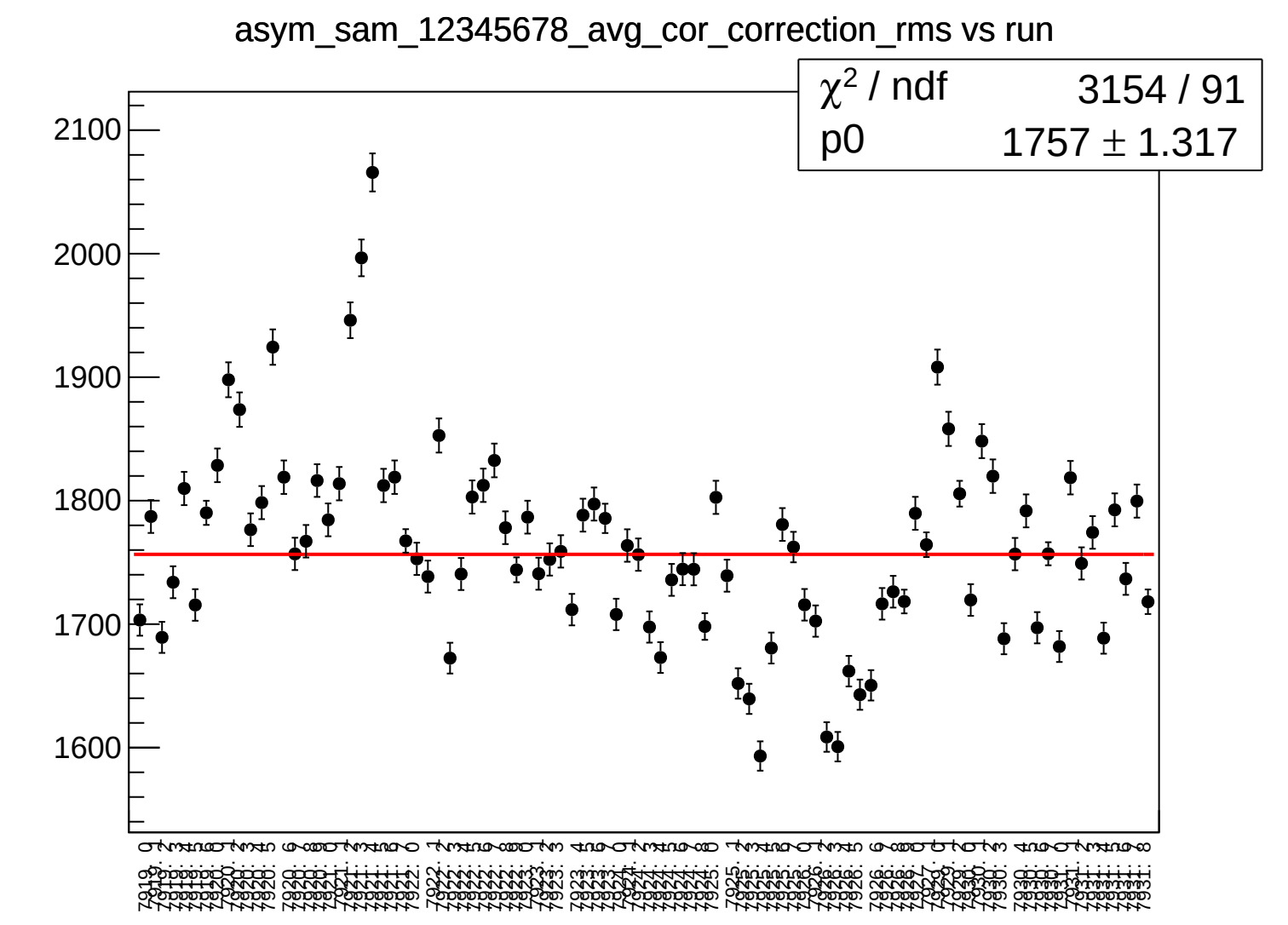

asym_sam_12345678_avg_reg_correction_rms vs run
χ² / ndf 3155 / 91
p0 1757 ± 1.317
2100
2000
1900
1800
1700
1600

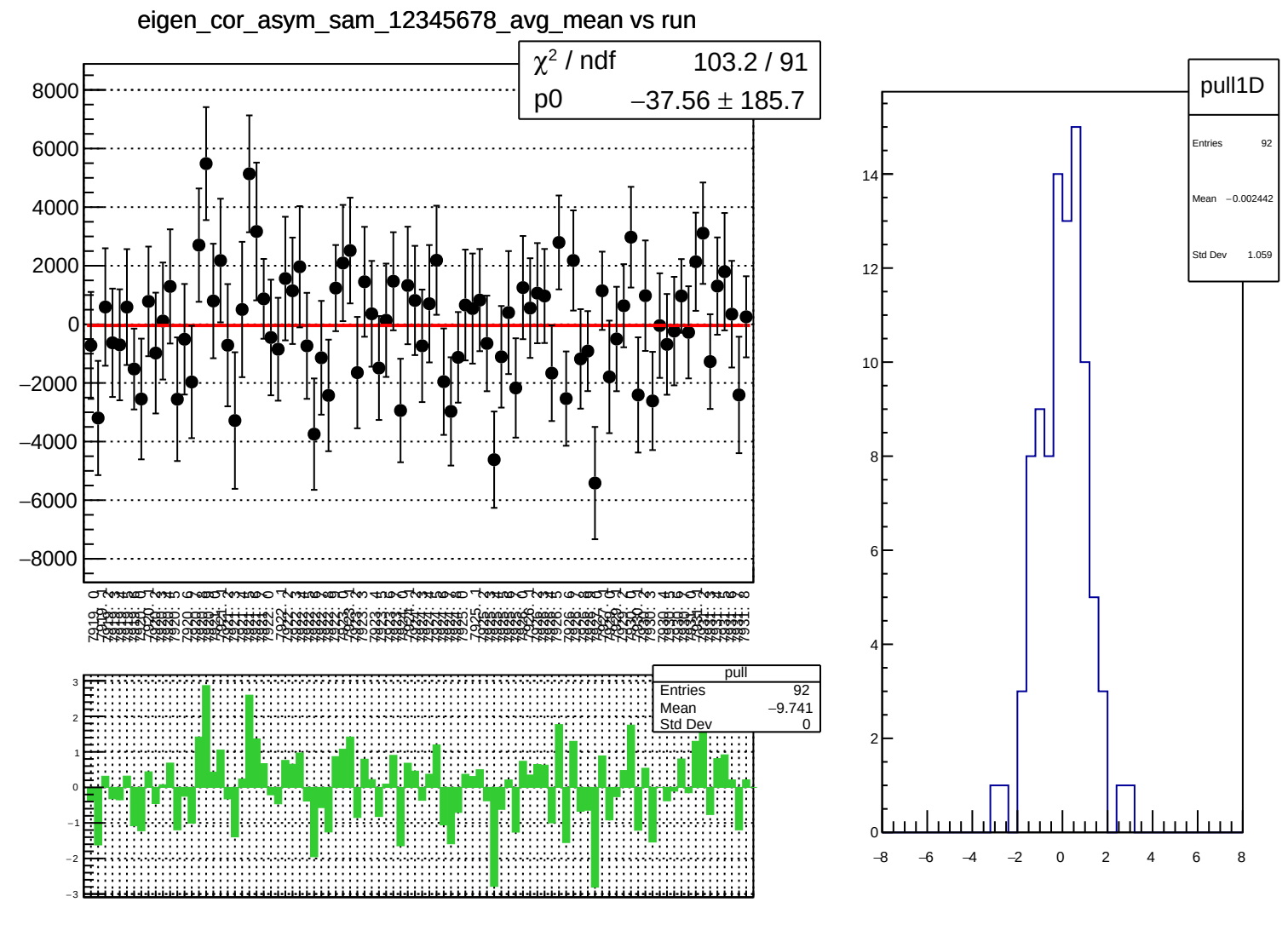

cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 103.2 / 91
p0 −37.56 ± 185.7
pull
Entries 92
Mean −9.741
Std Dev 0
pull1D
Entries 92
Mean −0.002442
Std Dev 1.059

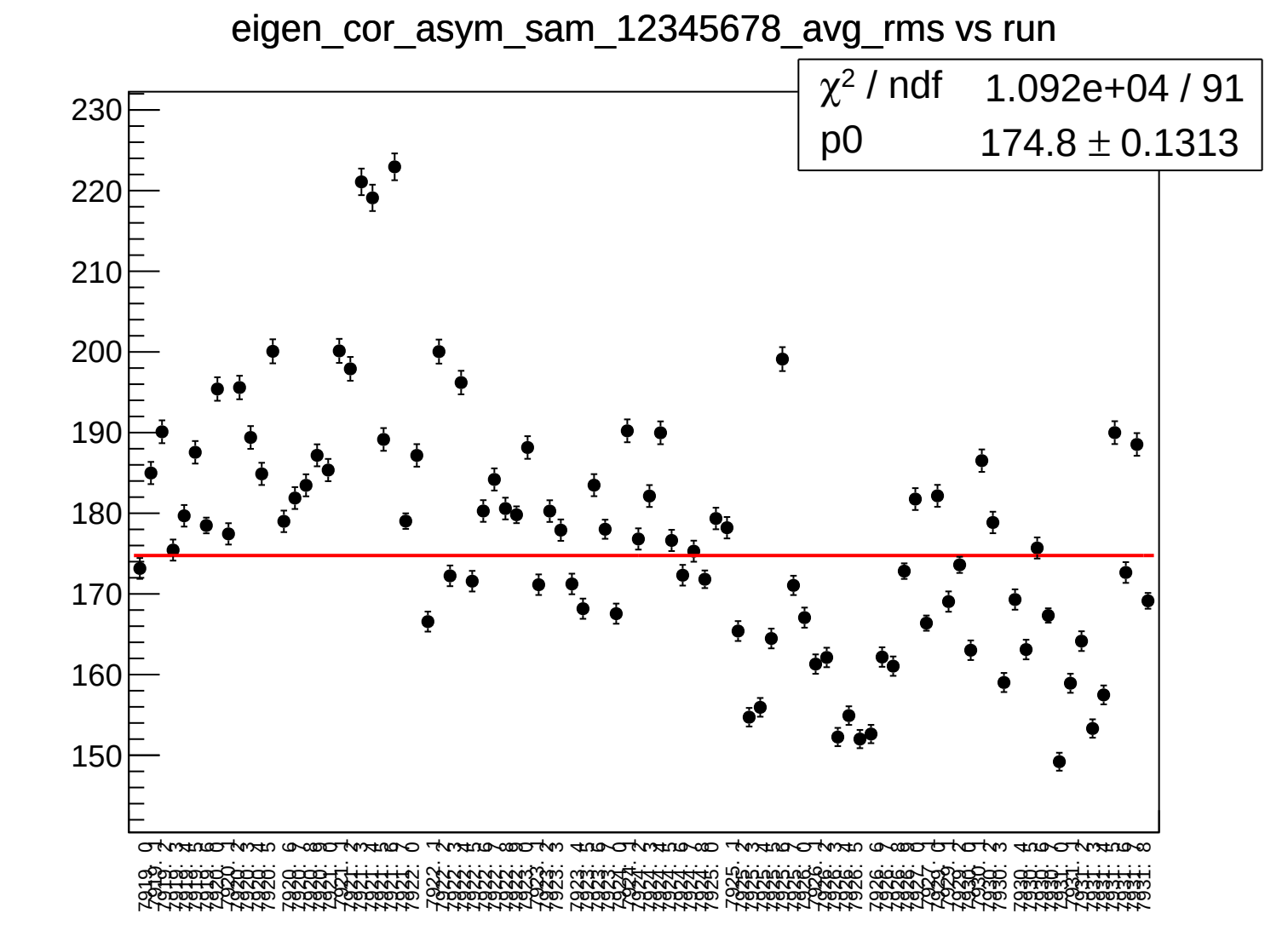

cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.092e+04 / 91
p0 174.8 ± 0.1313
230
220
210
200
190
180
170
160
150

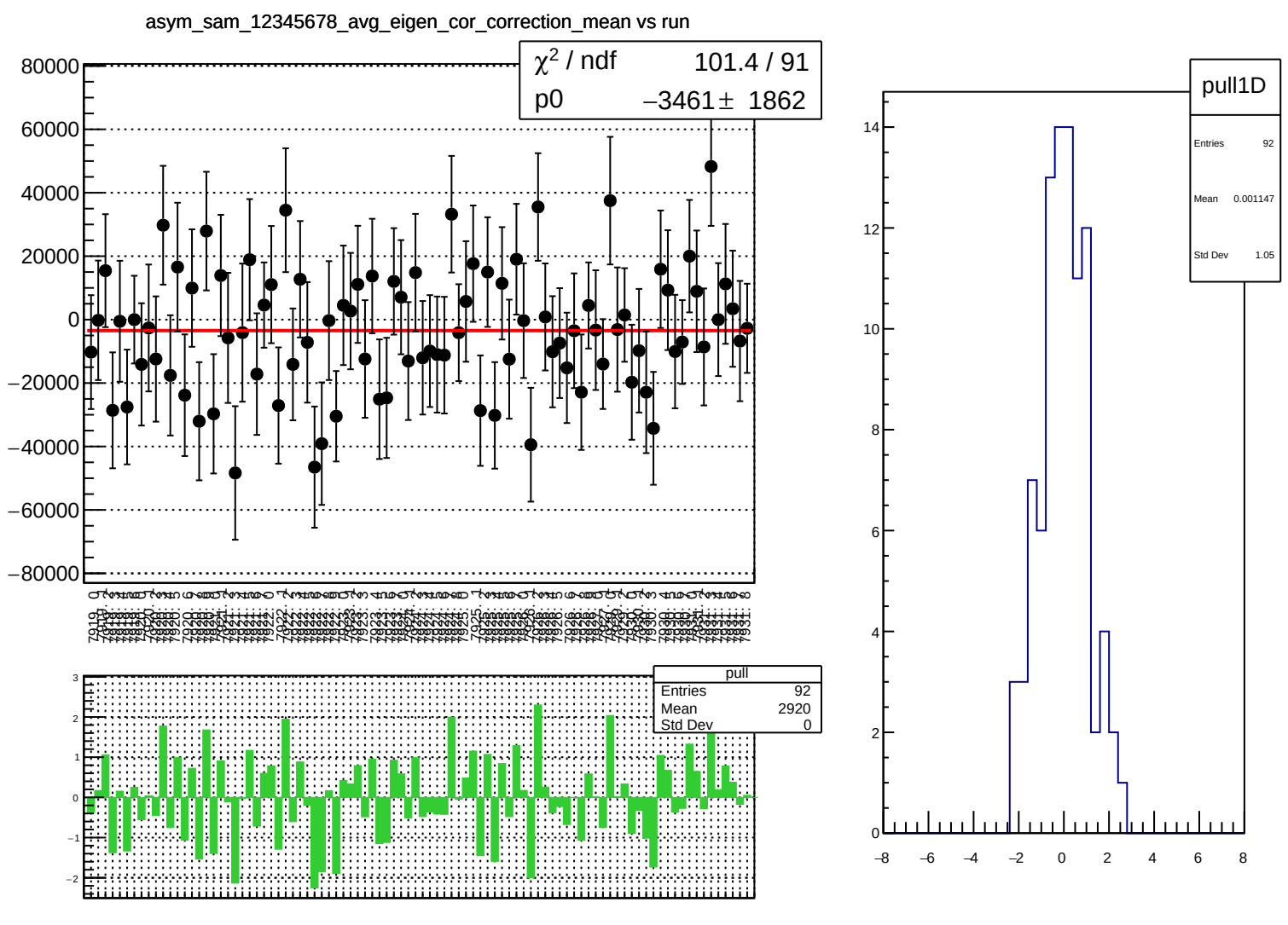

asym_sam_12345678_avg_cor_correction_mean vs run
χ² / ndf 101.4 / 91
p0 −3461 ± 1862
pull
Entries 92
Mean 2920
Std Dev 0

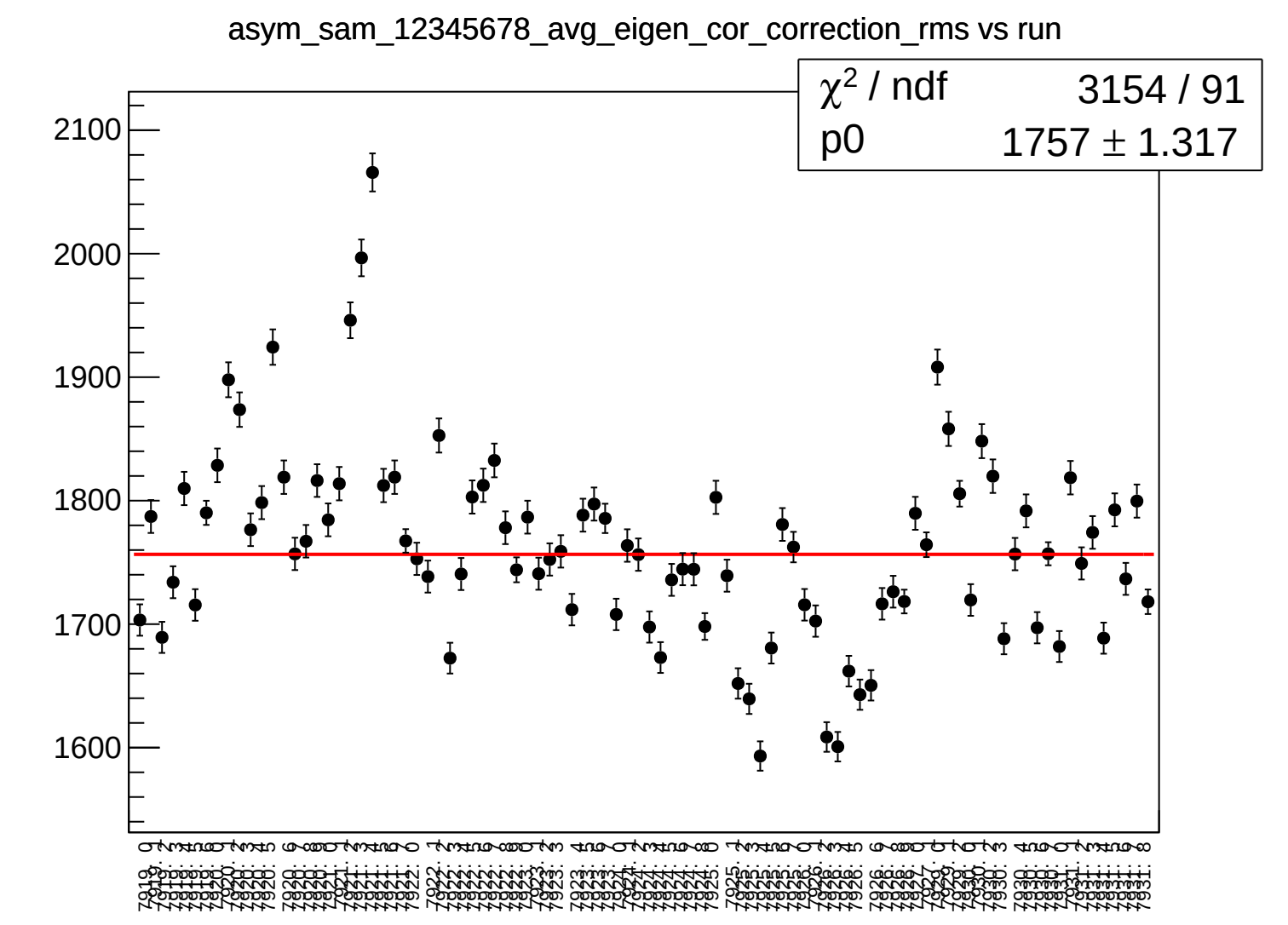

pull1D
Entries 92
Mean 0.001147
Std Dev 1.05

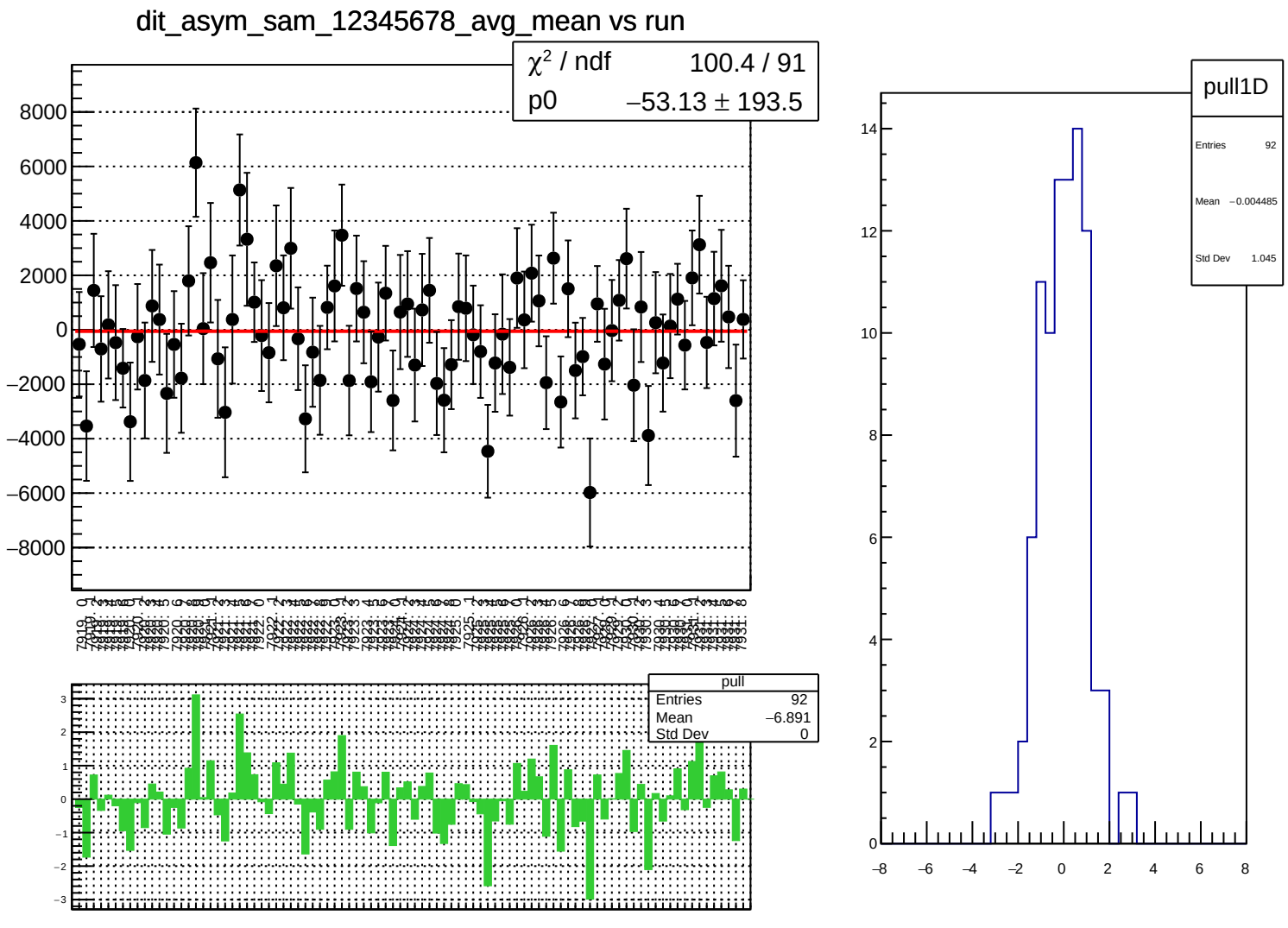

asym_sam_12345678_avg_cor_correction_rms vs run
χ² / ndf 3154 / 91
p0 1757 ± 1.317
2100
2000
1900
1800
1700
1600

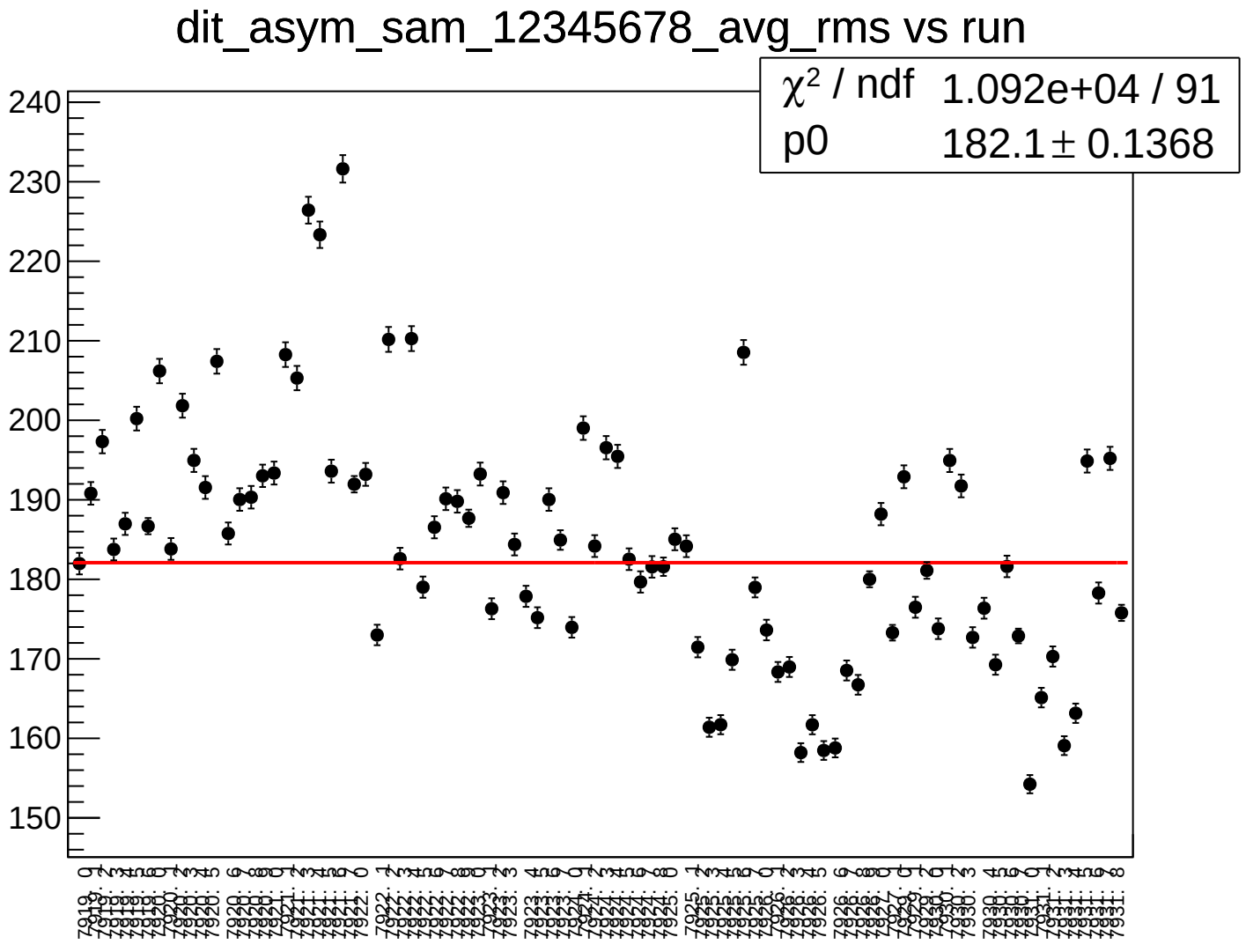

eigen_cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 103.2 / 91
p0 −37.56 ± 185.7
pull
Entries 92
Mean −9.741
Std Dev 0
pull1D
Entries 92
Mean −0.002442
Std Dev 1.059

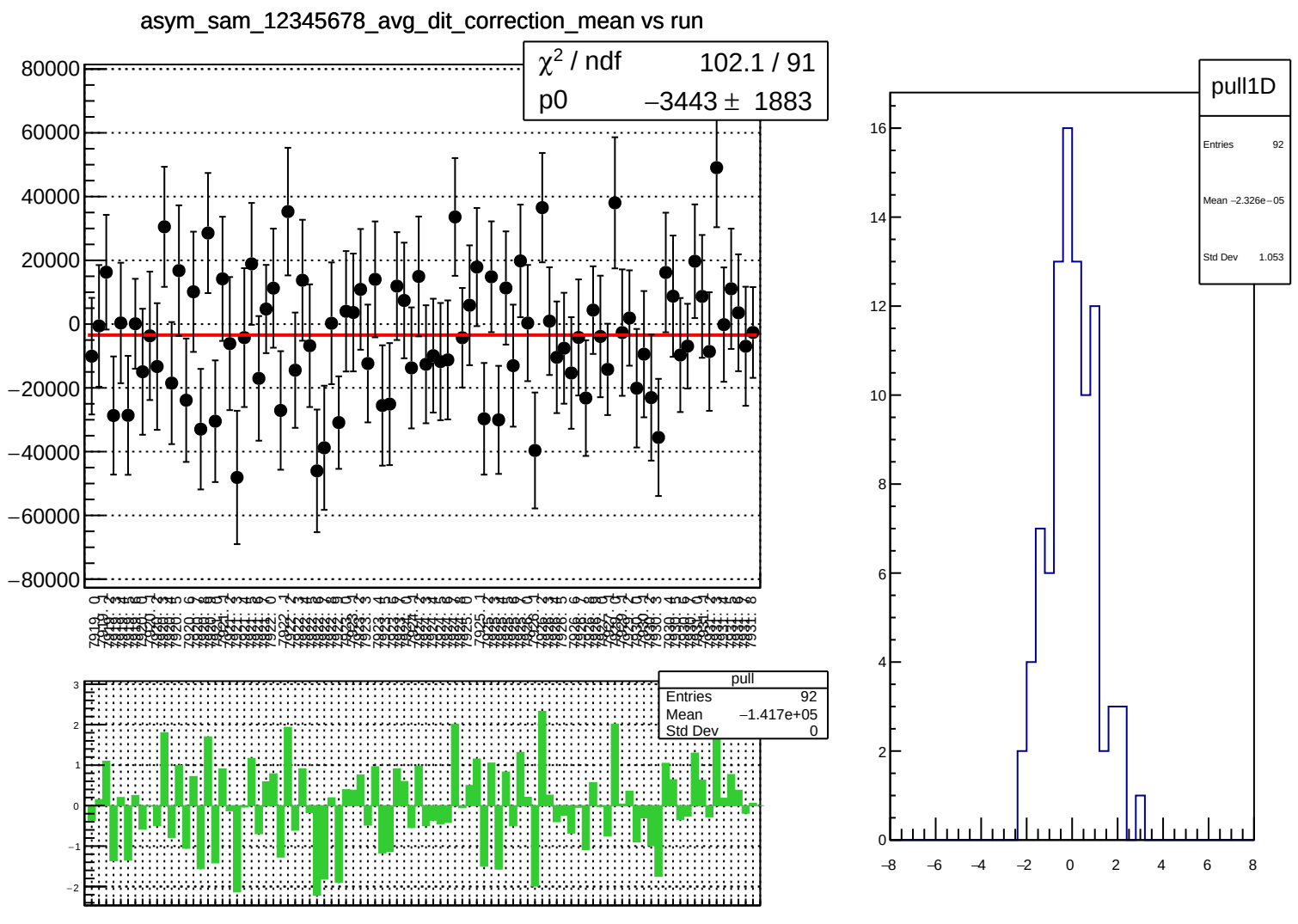

eigen_cor_asym_sam_12345678_avg_rms vs run
χ^2 / ndf 1.092e+04 / 91
p0 174.8 ± 0.1313
230
220
210
200
190
180
170
160
150

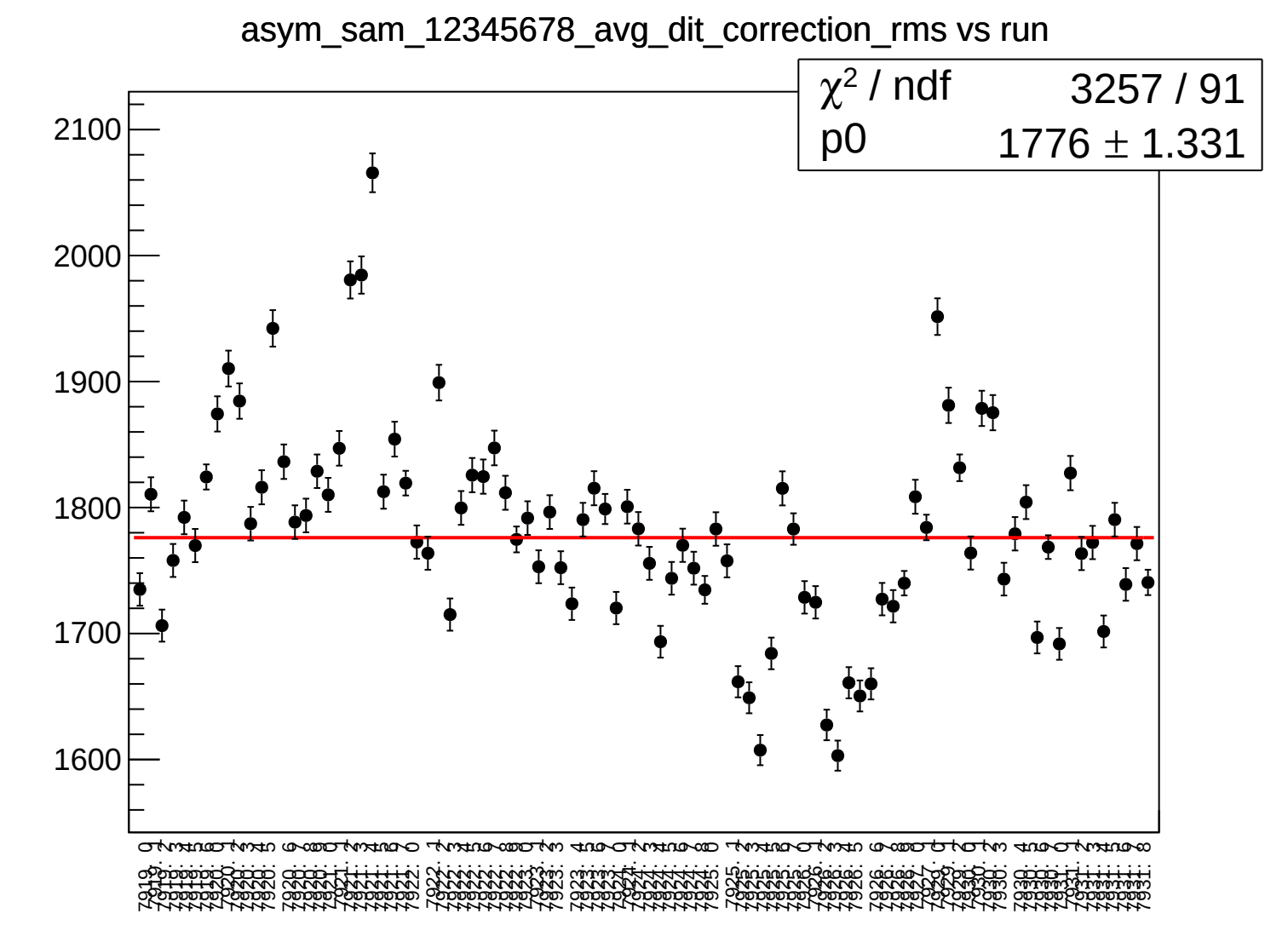

asym_sam_12345678_avg_eigen_cor_correction_mean vs run
χ² / ndf 101.4 / 91
p0 −3461 ± 1862
pull
Entries 92
Mean 2920
Std Dev 0
pull1D
Entries 92
Mean 0.001147
Std Dev 1.05

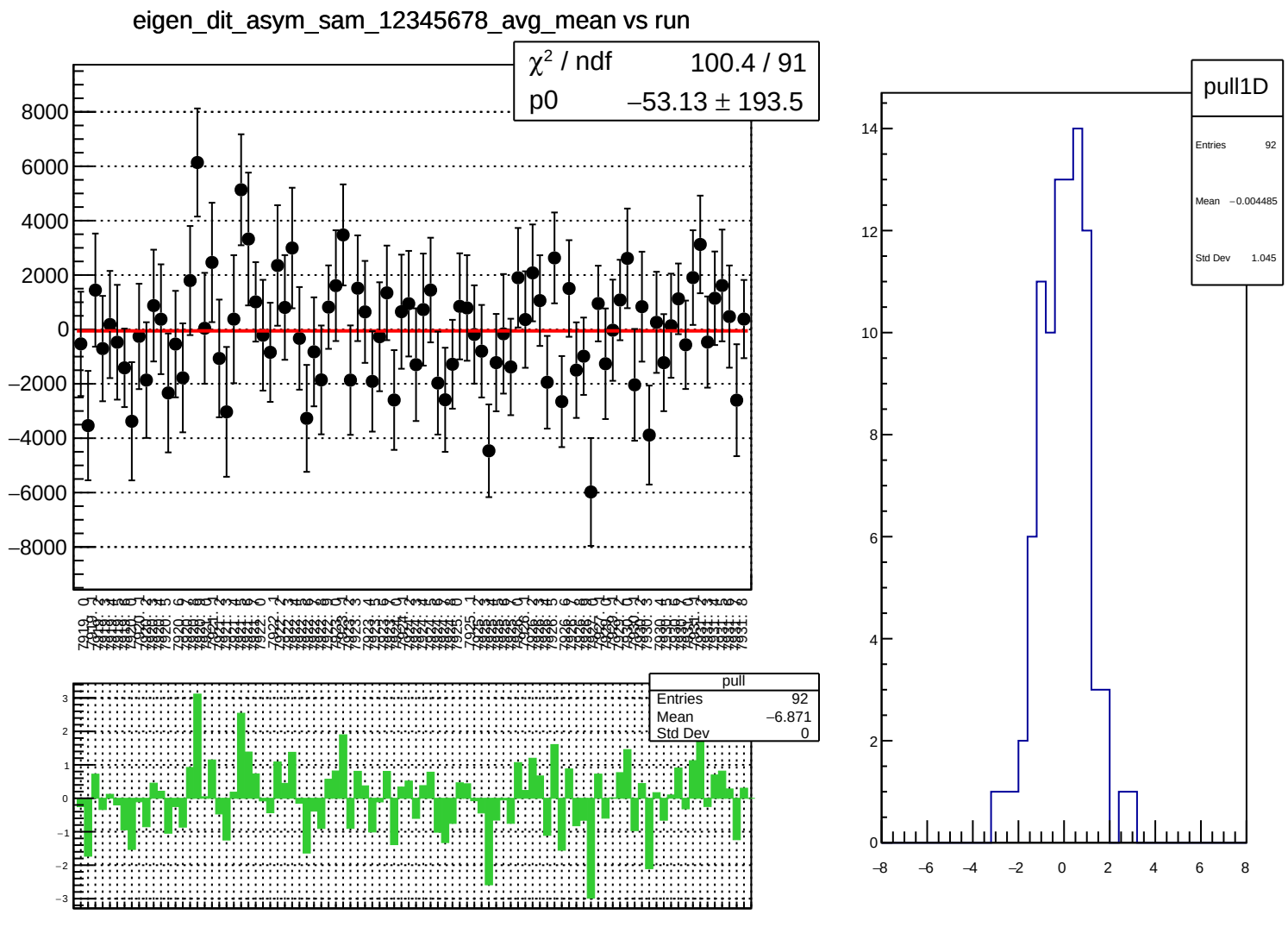

asym_sam_12345678_avg_eigen_cor_correction_rms vs run
χ² / ndf 3154 / 91
p0 1757 ± 1.317
2100
2000
1900
1800
1700
1600

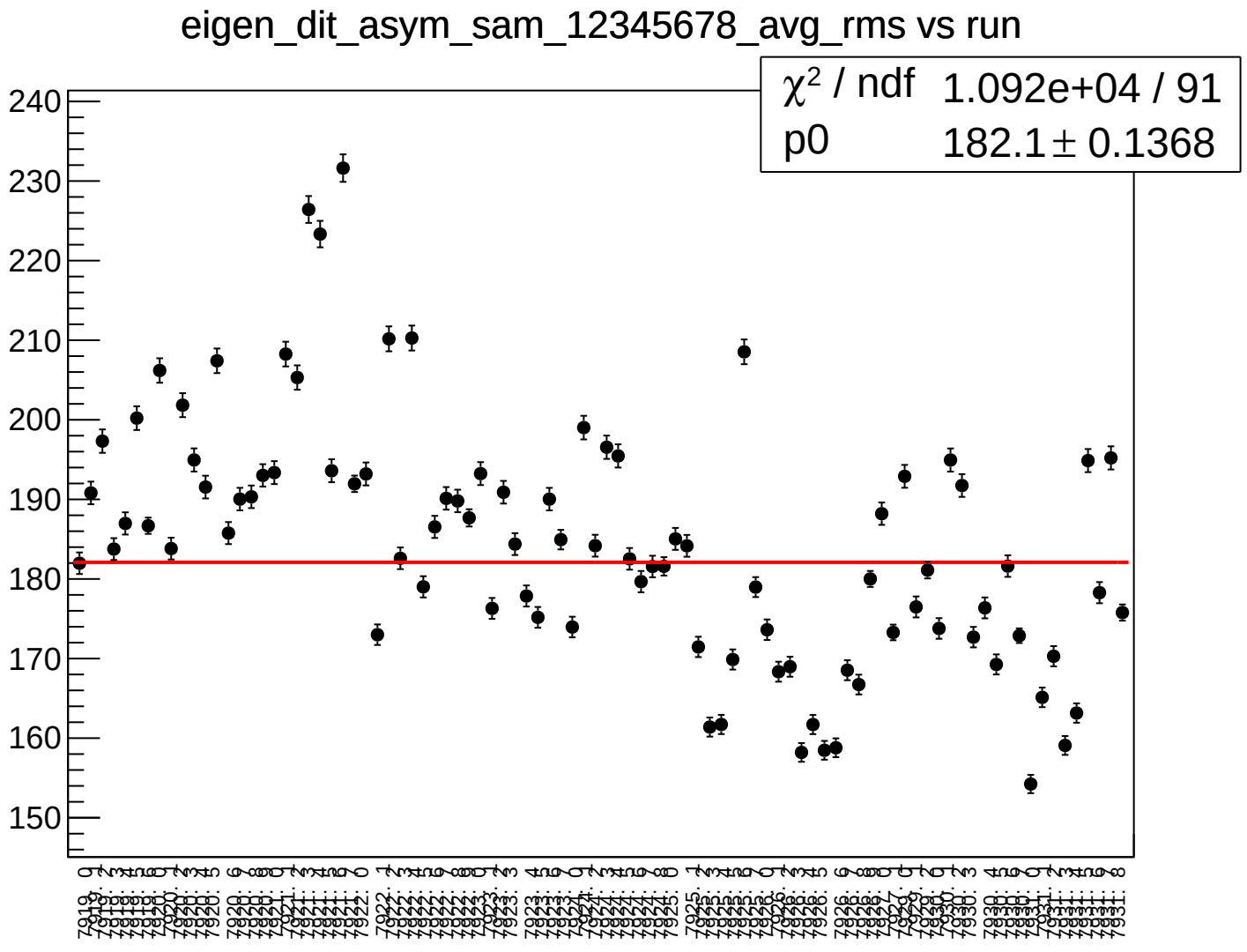

dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 100.4 / 91
p0 −53.13 ± 193.5
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 92
Mean −6.891
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.004485
Std Dev 1.045
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

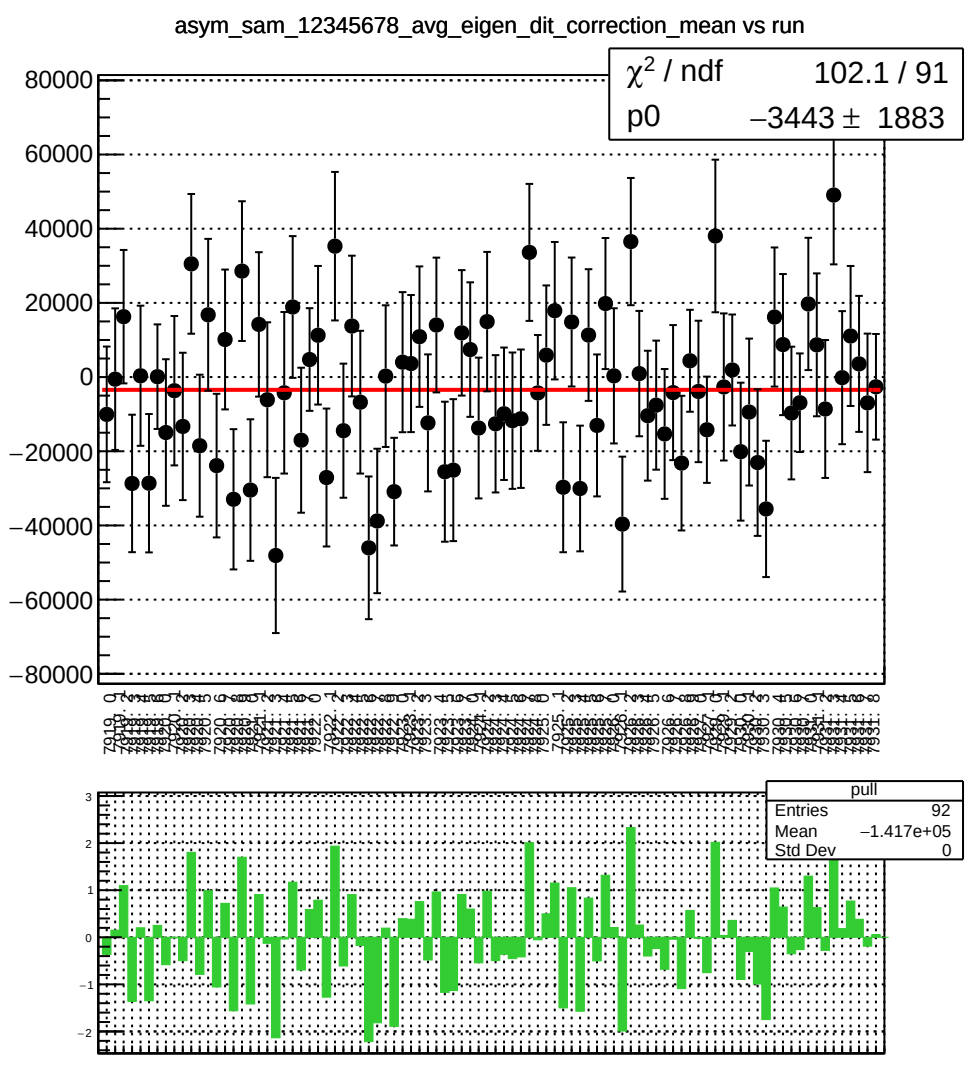

dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.092e+04 / 91
p0 182.1 ± 0.1368
240
230
220
210
200
190
180
170
160
150

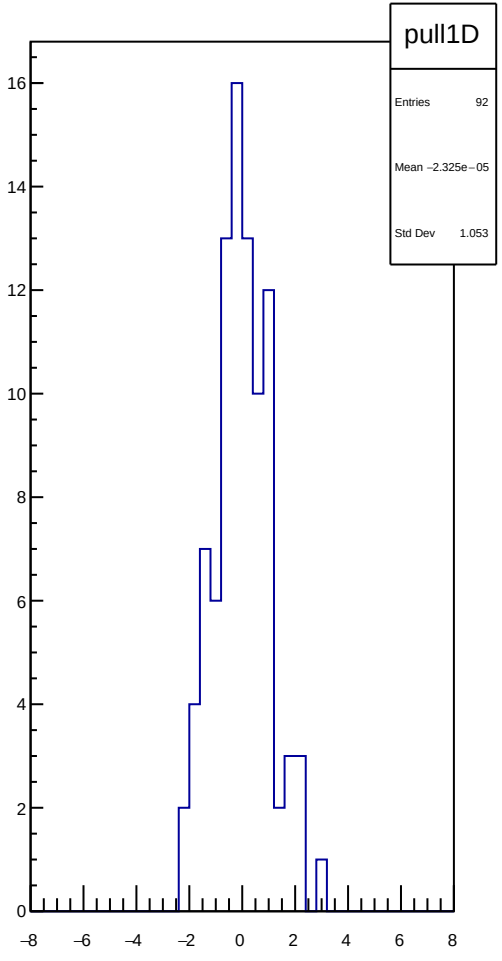

asym_sam_12345678_avg_dit_correction_mean vs run
χ² / ndf 102.1 / 91
p0 −3443 ± 1883
pull
Entries 92
Mean −1.417e+05
Std Dev 0
pull1D
Entries 92
Mean −2.326e−05
Std Dev 1.053

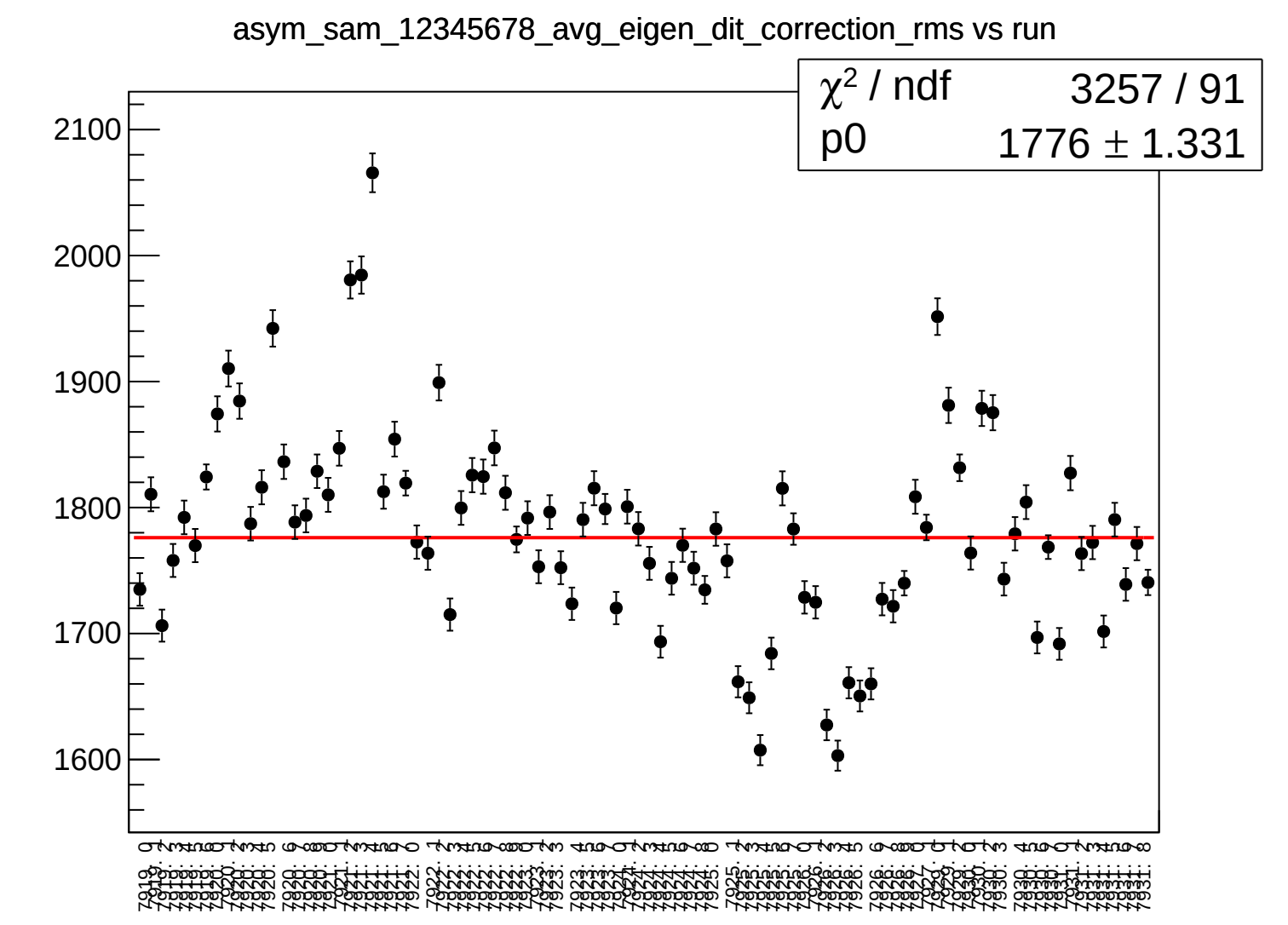

asym_sam_12345678_avg_dit_correction_rms vs run
χ^2 / ndf 3257 / 91
p0 1776 ± 1.331
2100
2000
1900
1800
1700
1600

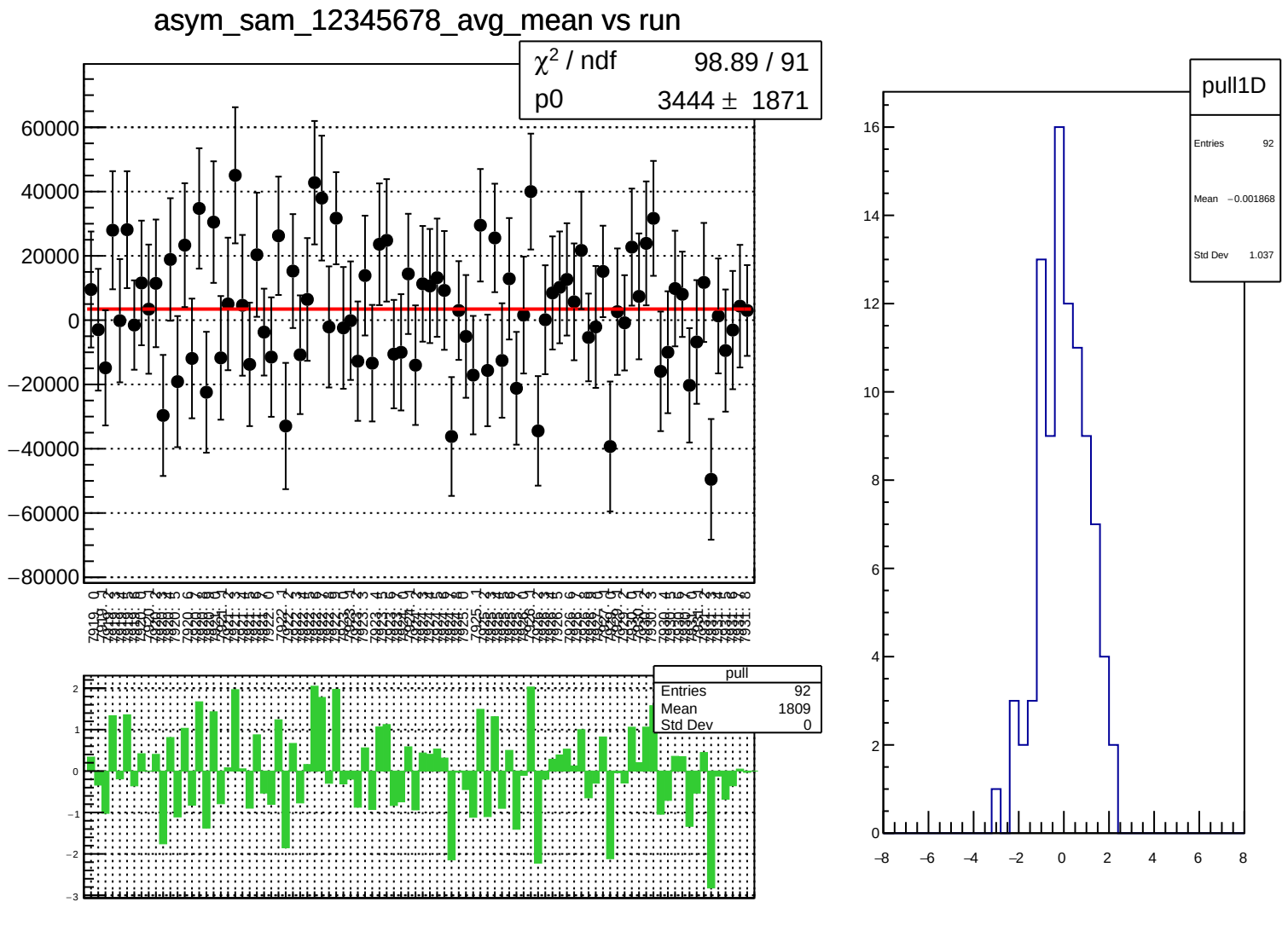

eigen_dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 100.4 / 91
p0 −53.13 ± 193.5
pull
Entries 92
Mean −6.871
Std Dev 0
pull1D
Entries 92
Mean −0.004485
Std Dev 1.045

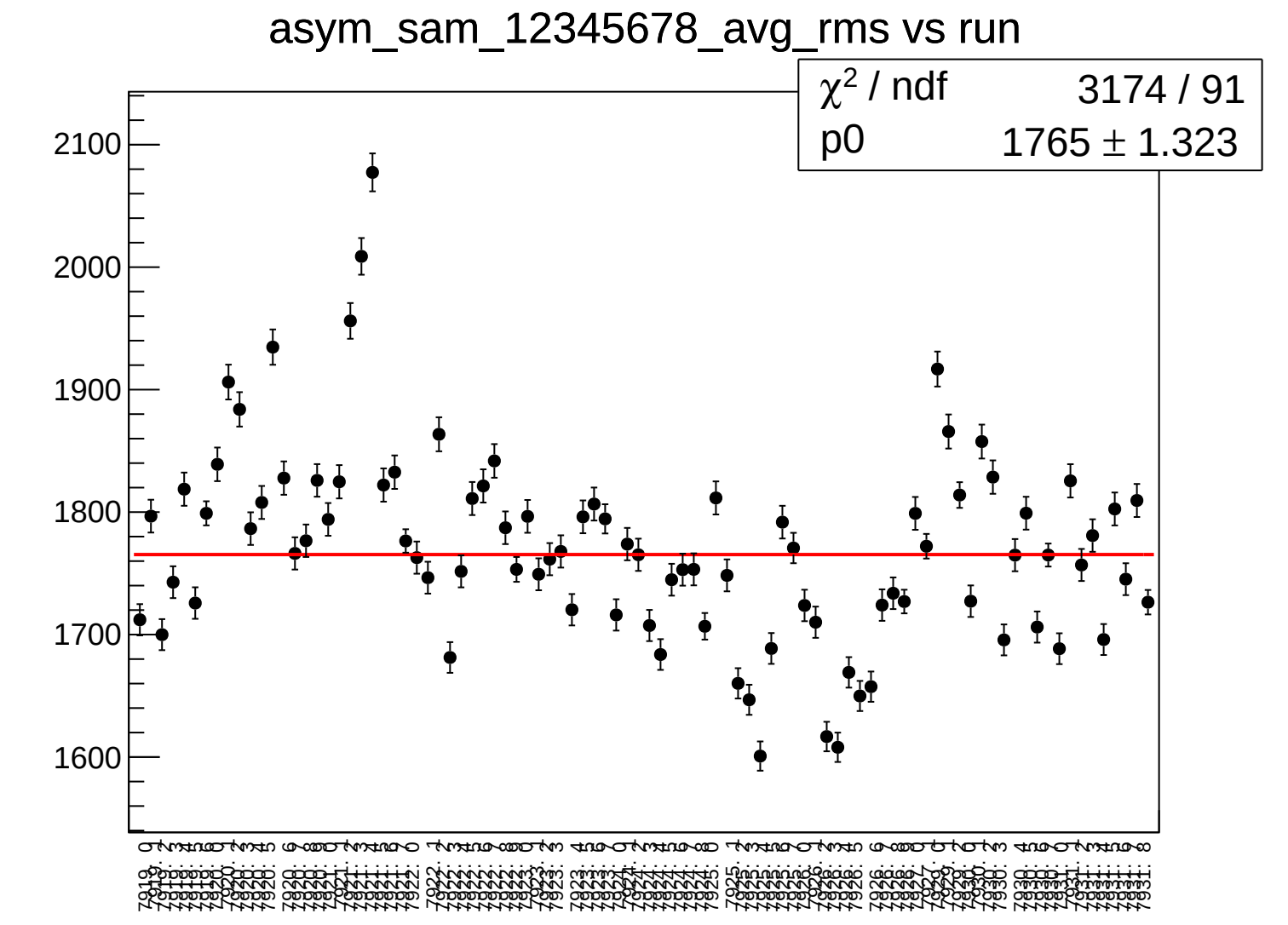

eigen_dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.092e+04 / 91
p0 182.1 ± 0.1368
240
230
220
210
200
190
180
170
160
150

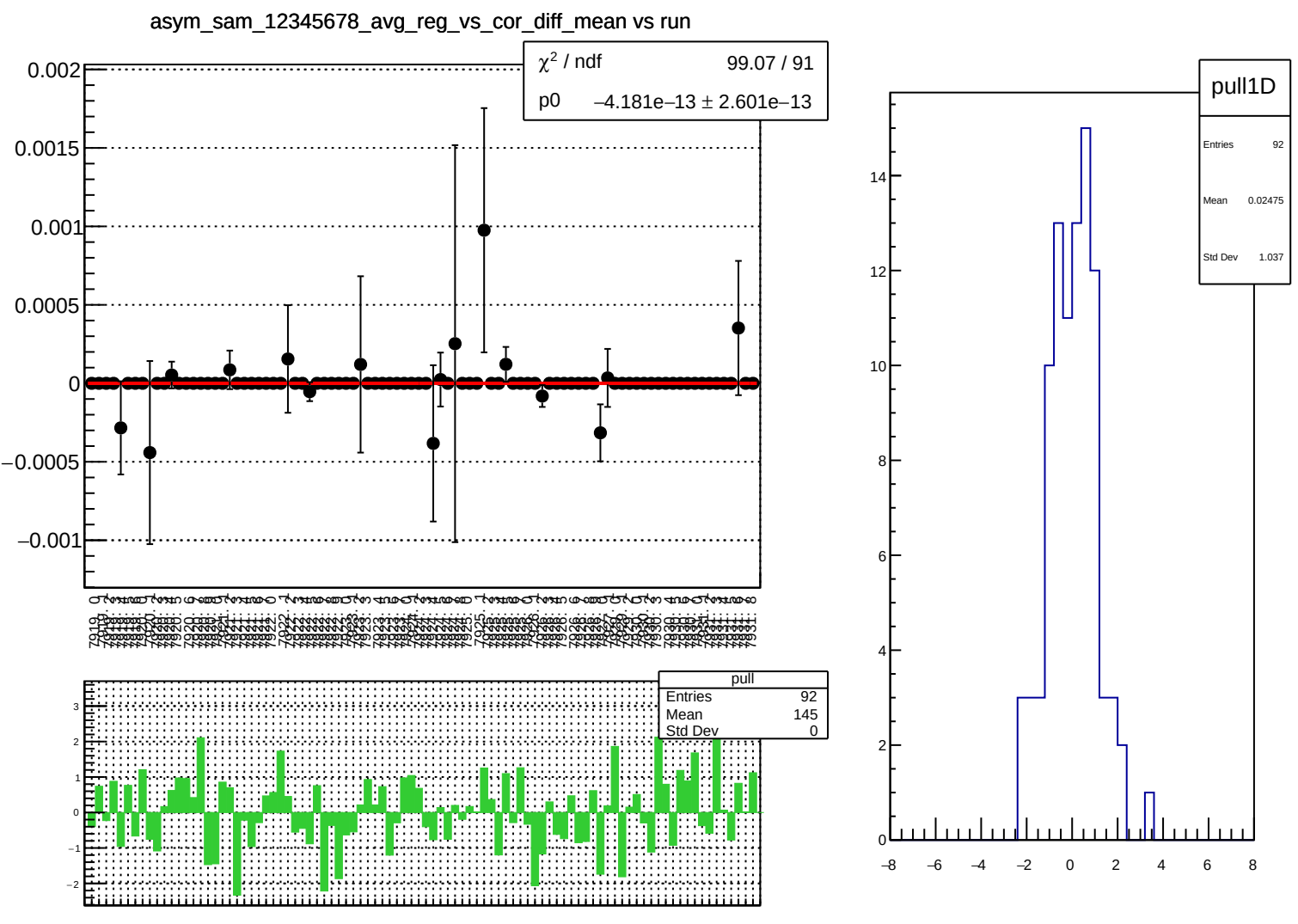

asym_sam_12345678_avg_eigen_dit_correction_mean vs run
χ² / ndf 102.1 / 91
p0 −3443 ± 1883
pull
Entries 92
Mean −1.417e+05
Std Dev 0

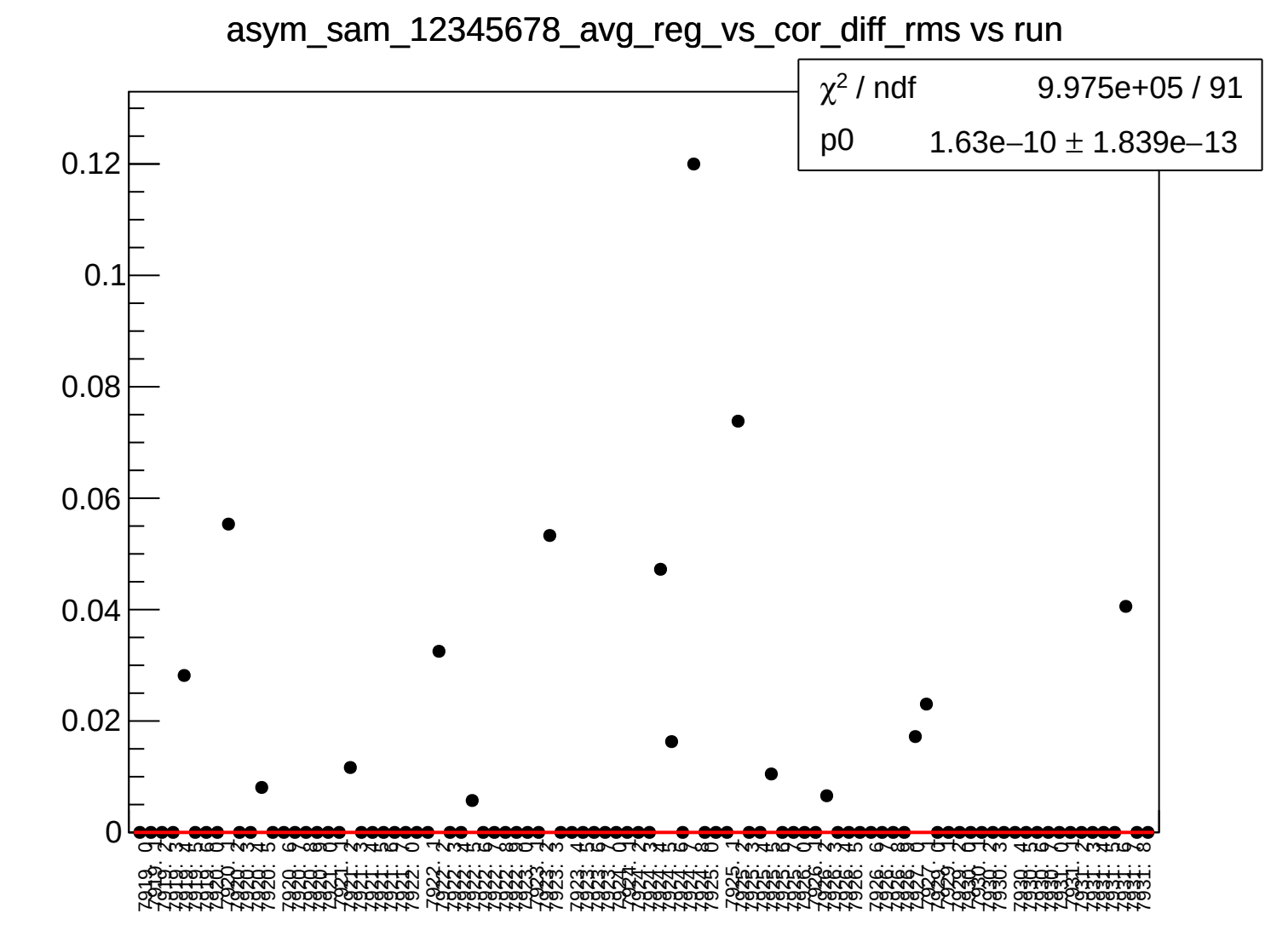

pull1D
Entries 92
Mean −2.325e−05
Std Dev 1.053

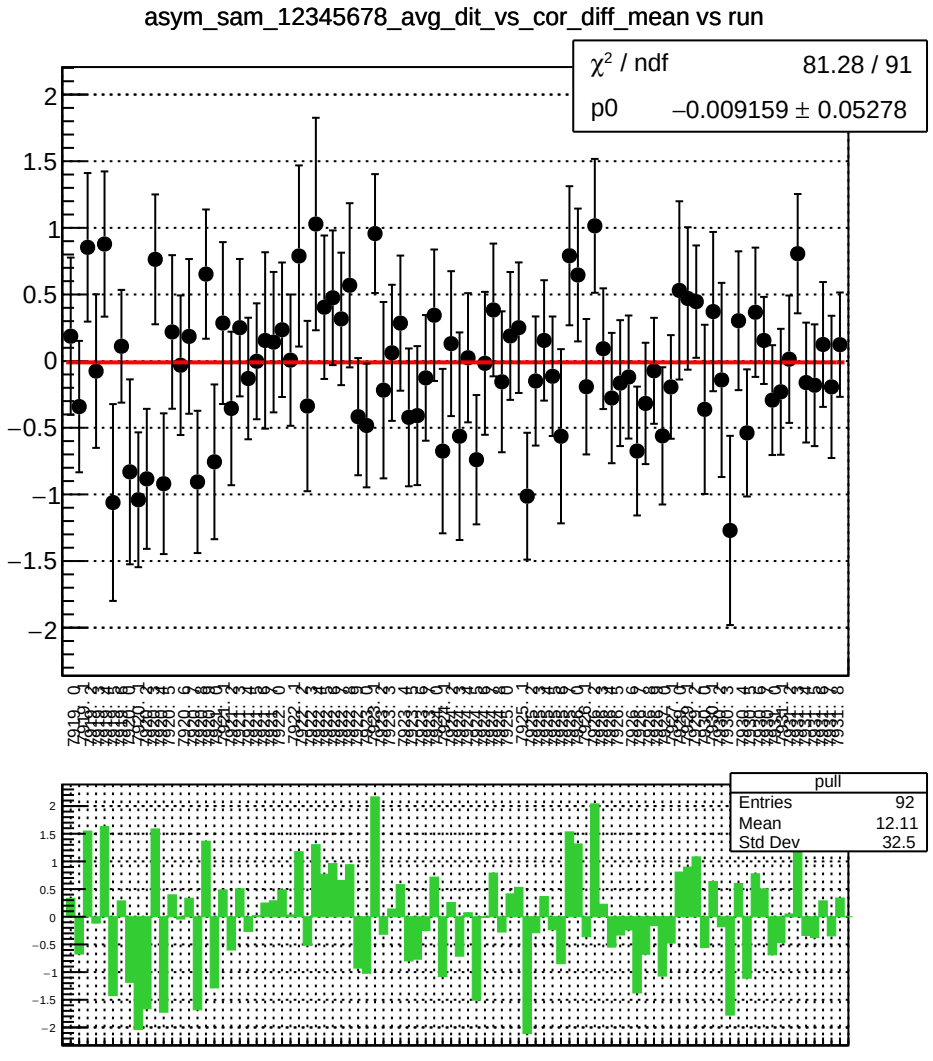

asym_sam_12345678_avg_eigen_dit_correction_rms vs run
χ² / ndf 3257 / 91
p0 1776 ± 1.331
2100
2000
1900
1800
1700
1600

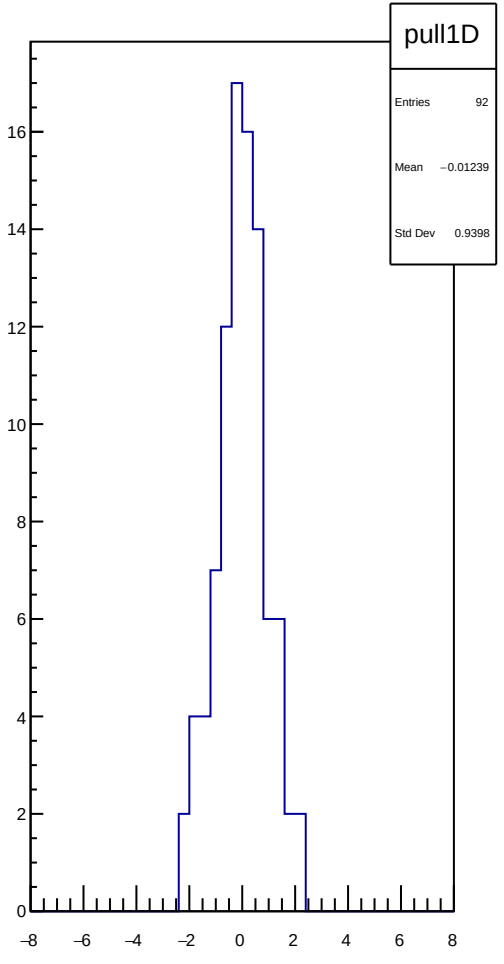

asym_sam_12345678_avg_mean vs run
χ² / ndf 98.89 / 91
p0 3444 ± 1871
pull
Entries 92
Mean 1809
Std Dev 0
pull1D
Entries 92
Mean −0.001868
Std Dev 1.037

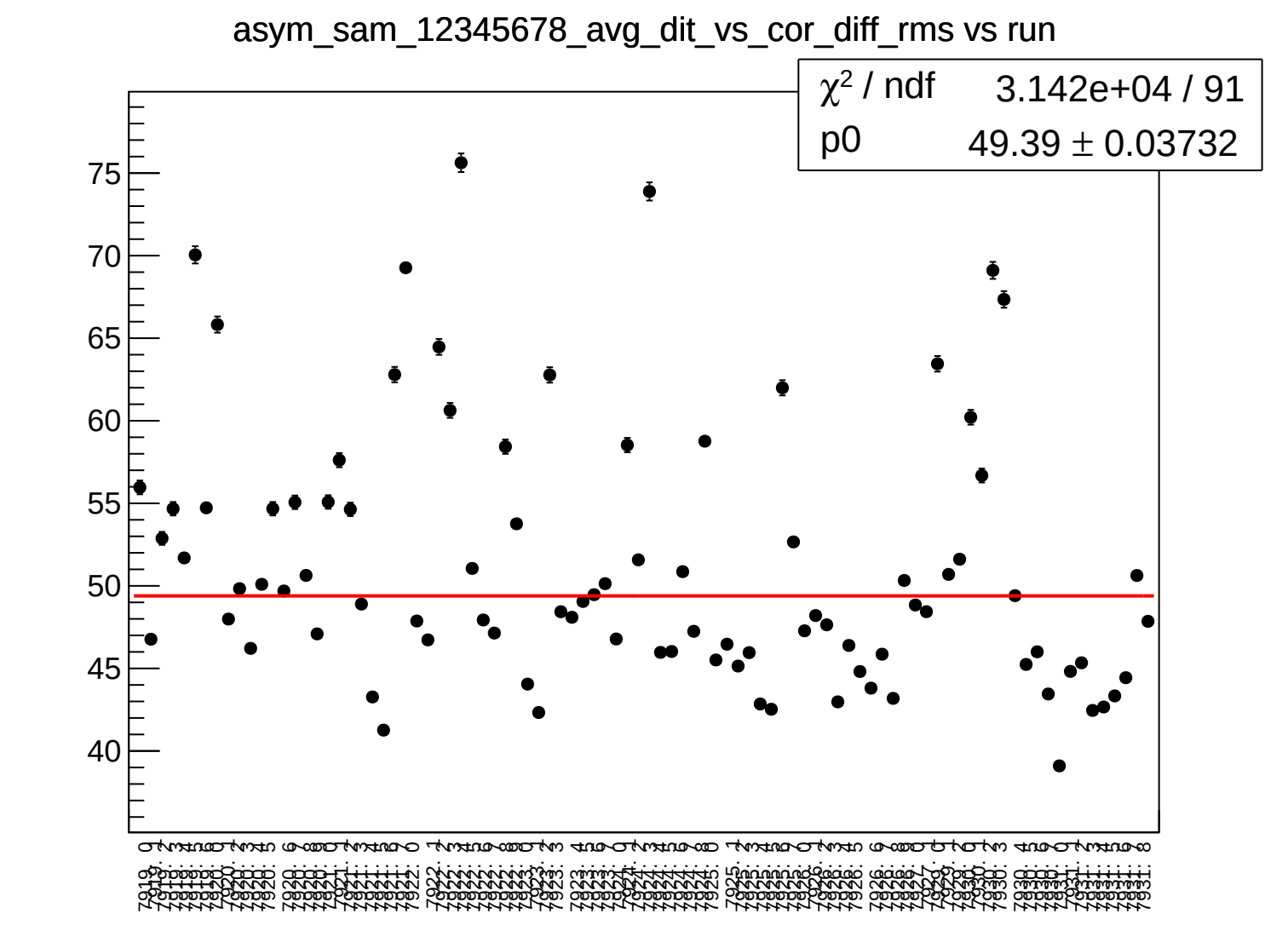

asym_sam_12345678_avg_rms vs run
χ² / ndf 3174 / 91
p0 1765 ± 1.323
2100
2000
1900
1800
1700
1600

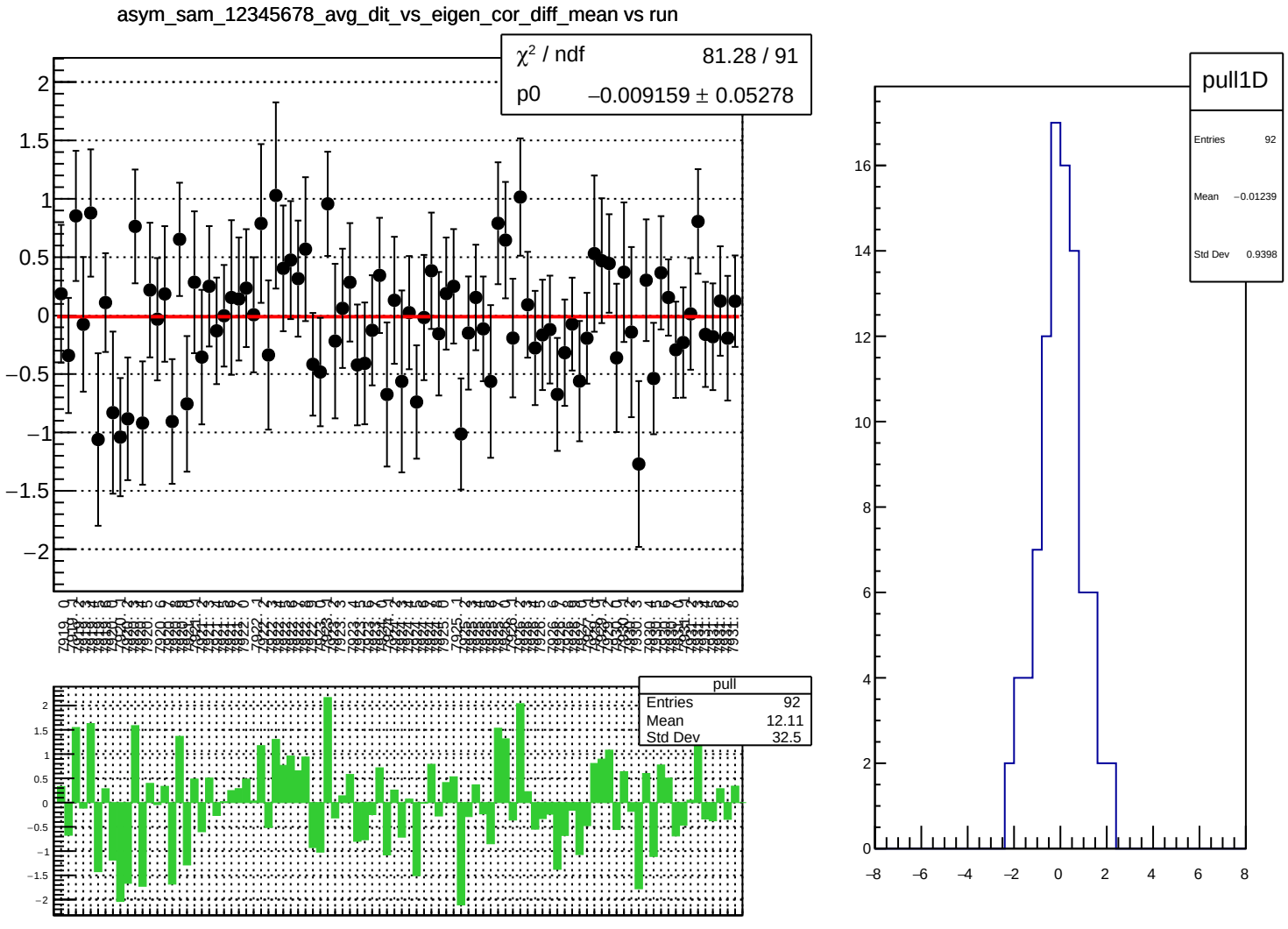

asym_sam_12345678_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 99.07 / 91
p0 −4.181e−13 ± 2.601e−13
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 92
Mean 145
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.02475
Std Dev 1.037
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

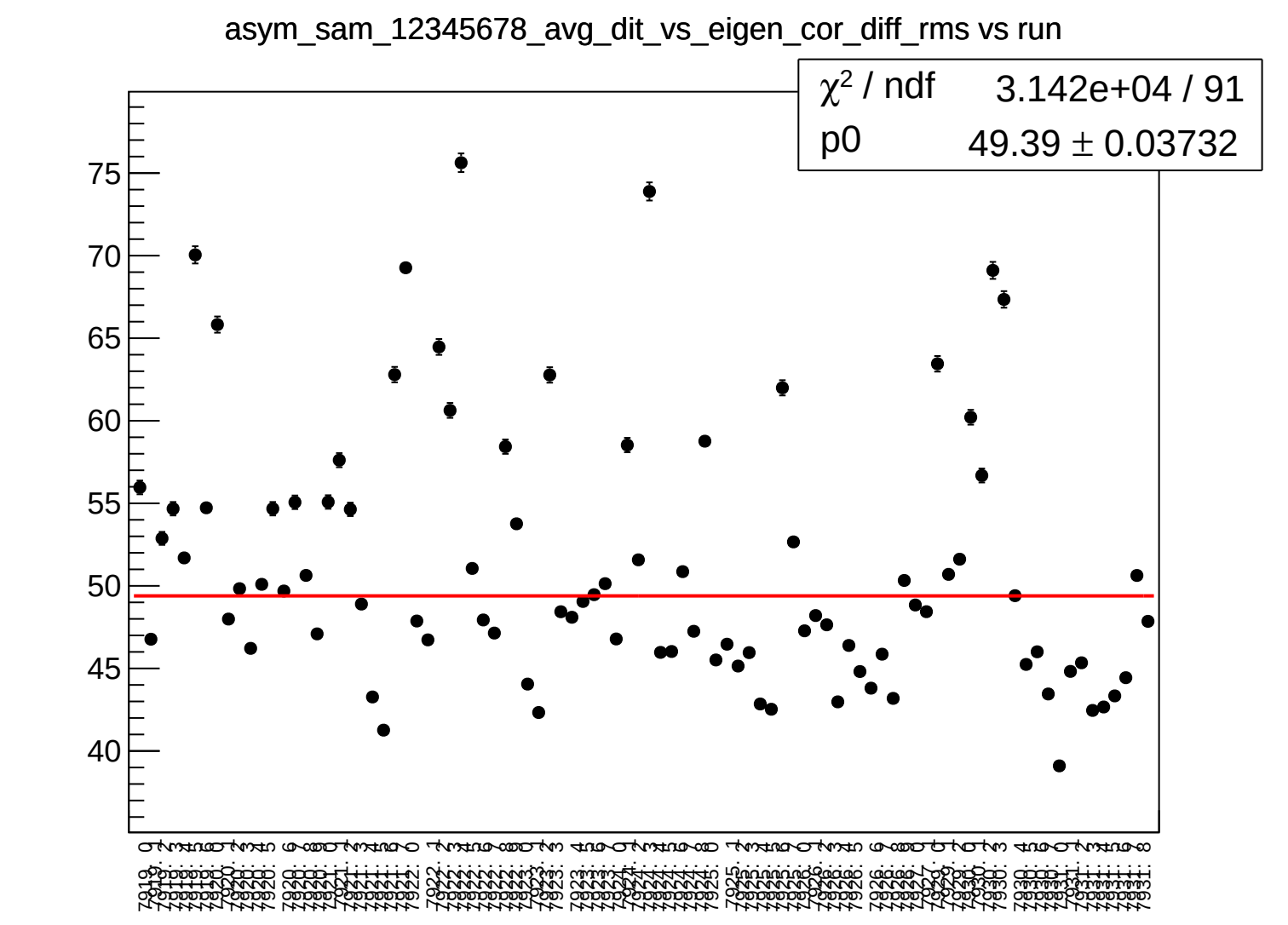

asym_sam_12345678_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.975e+05 / 91
p0 1.63e−10 ± 1.839e−13
0.12
0.1
0.08
0.06
0.04
0.02
0

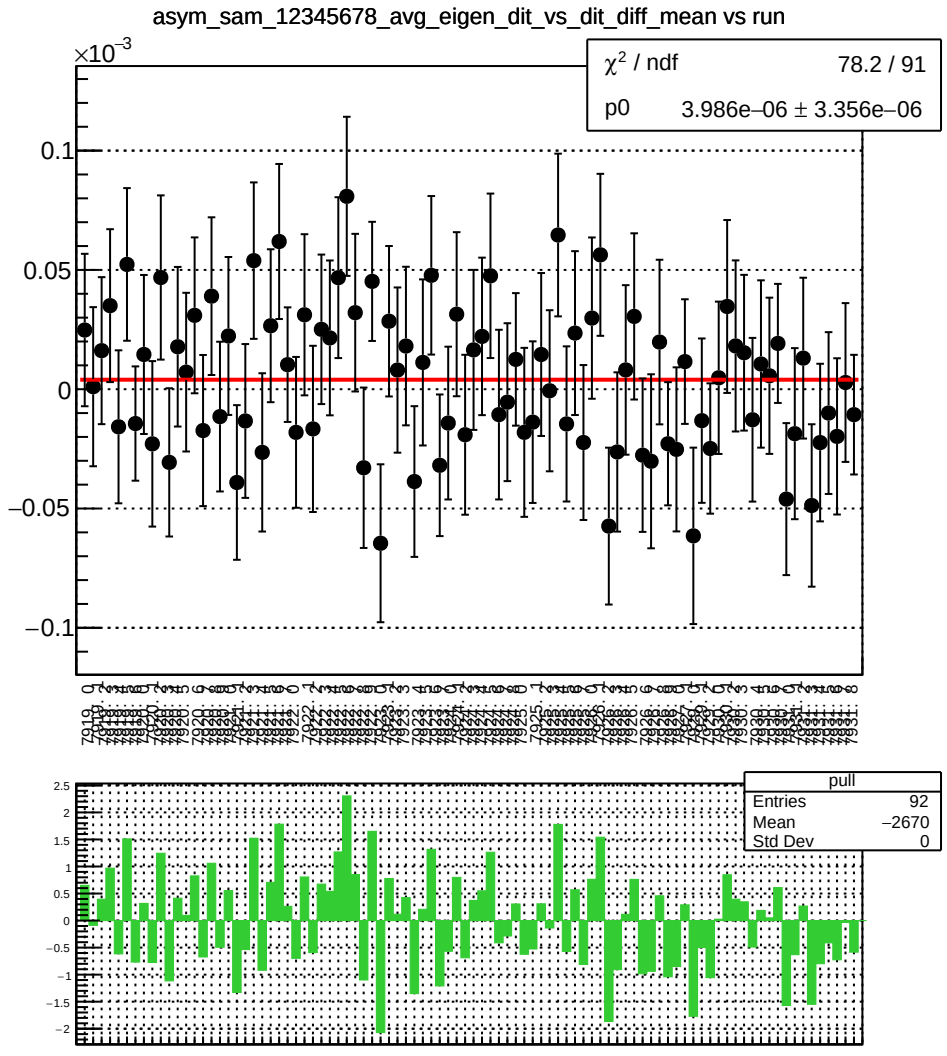

asym_sam_12345678_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 81.28 / 91
p0 −0.009159 ± 0.05278
pull
Entries 92
Mean 12.11
Std Dev 32.5

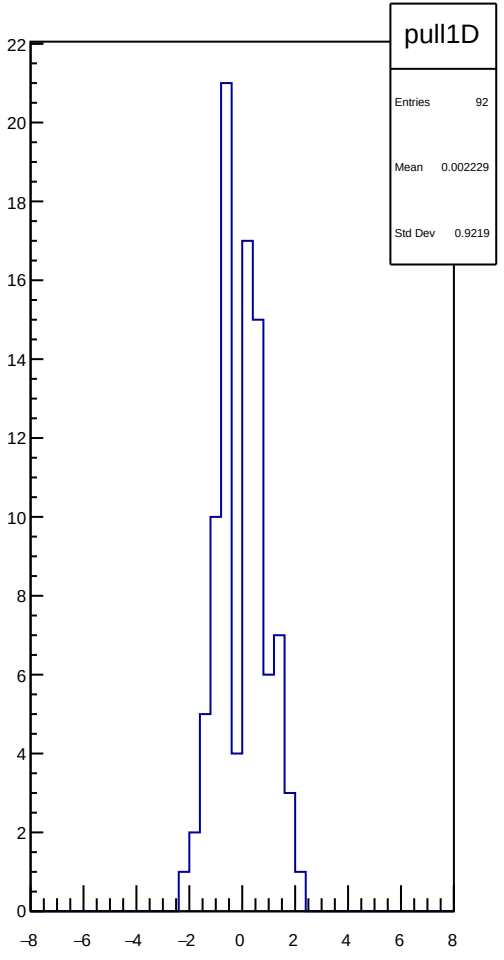

pull1D
Entries 92
Mean −0.01239
Std Dev 0.9398

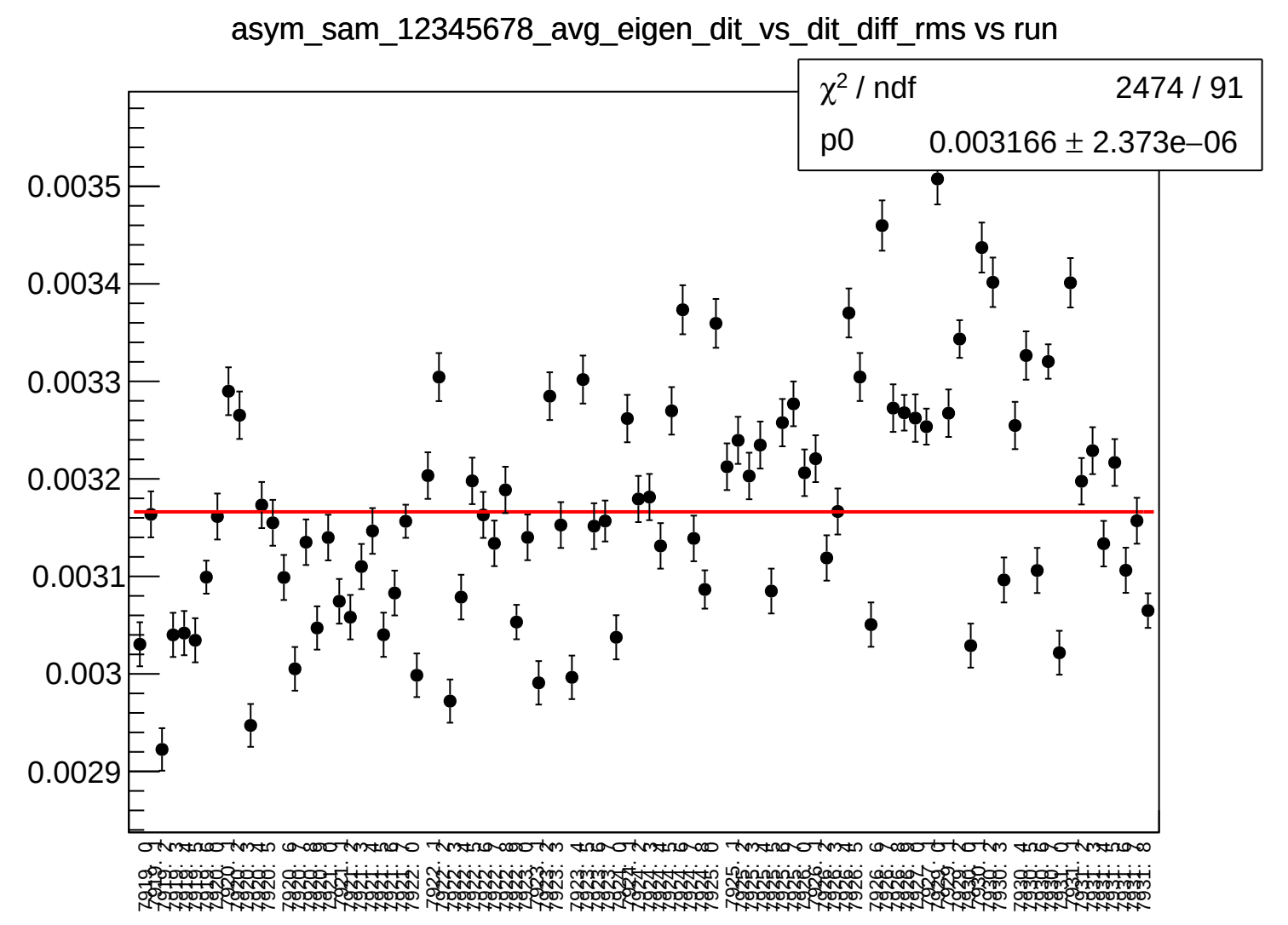

asym_sam_12345678_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.142e+04 / 91
p0 49.39 ± 0.03732
75
70
65
60
55
50
45
40

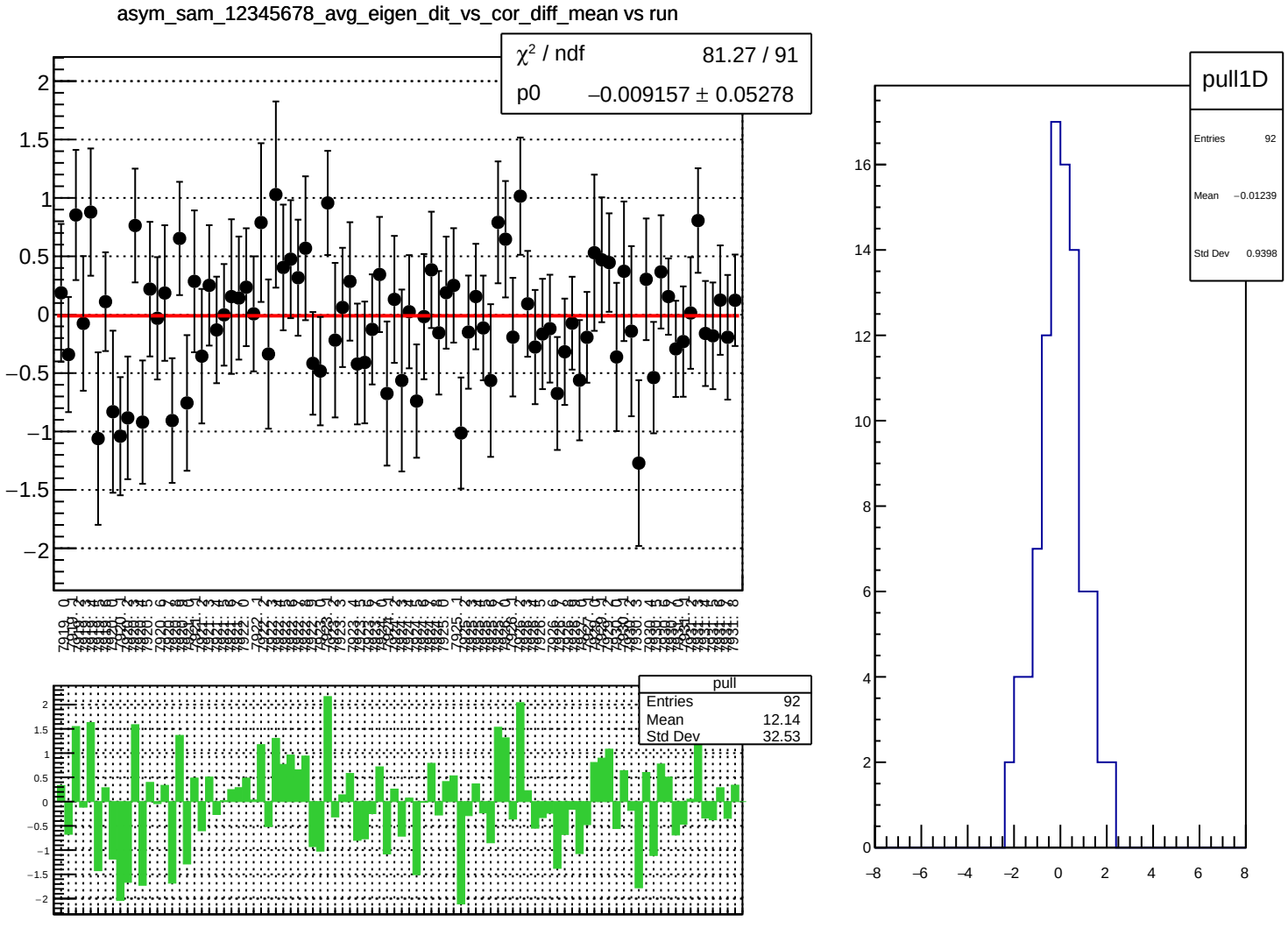

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.28 / 91
p0 −0.009159 ± 0.05278
pull
Entries 92
Mean 12.11
Std Dev 32.5
pull1D
Entries 92
Mean −0.01239
Std Dev 0.9398

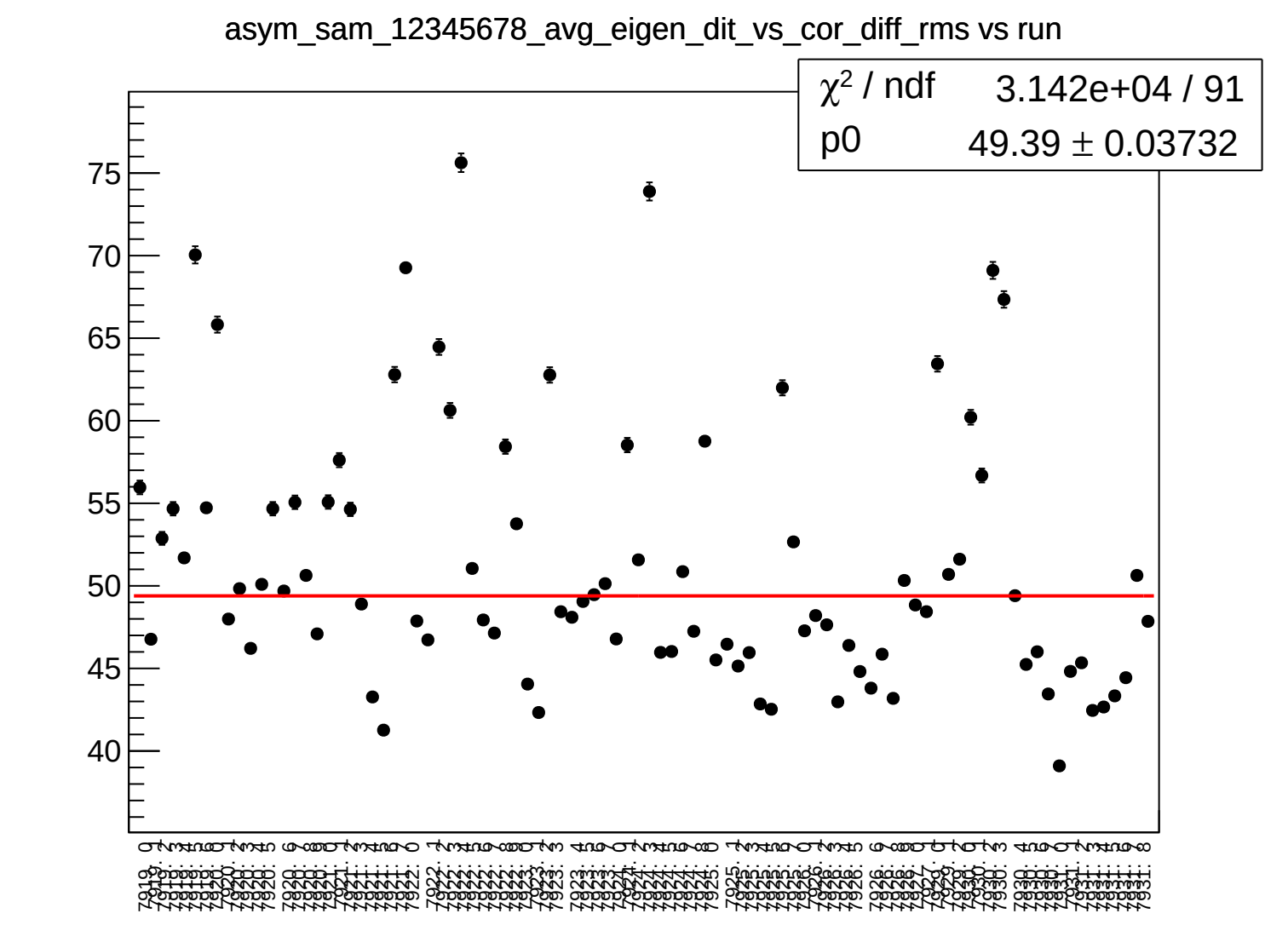

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.142e+04 / 91
p0 49.39 ± 0.03732
75
70
65
60
55
50
45
40

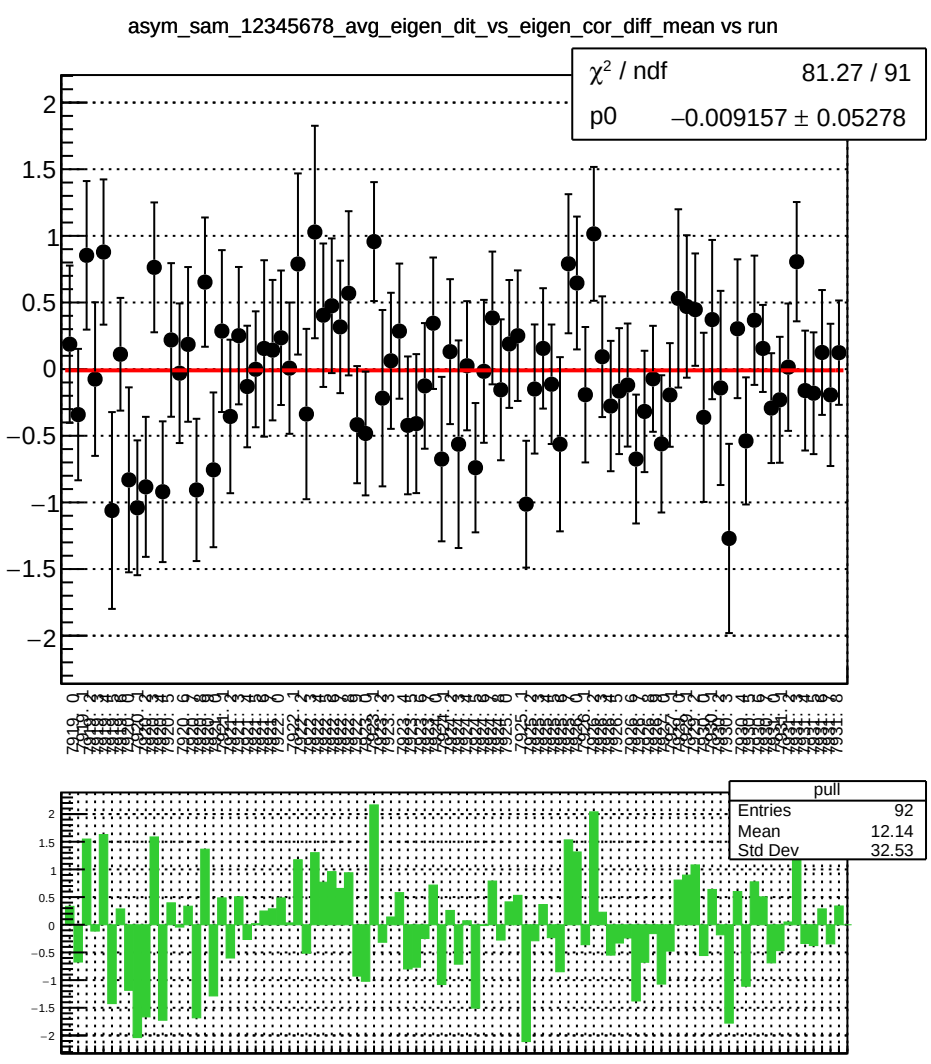

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 78.2 / 91
p0 3.986e−06 ± 3.356e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 92
Mean −2670
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

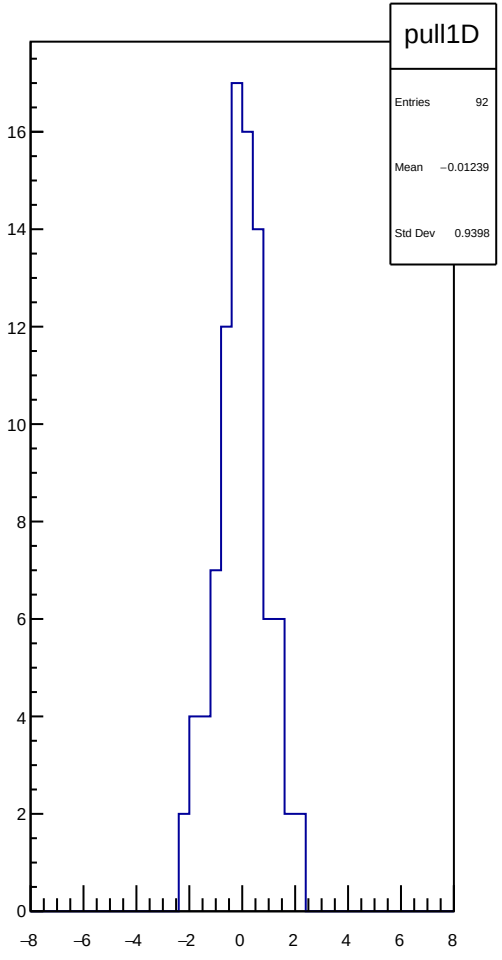

pull1D
Entries 92
Mean 0.002229
Std Dev 0.9219
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

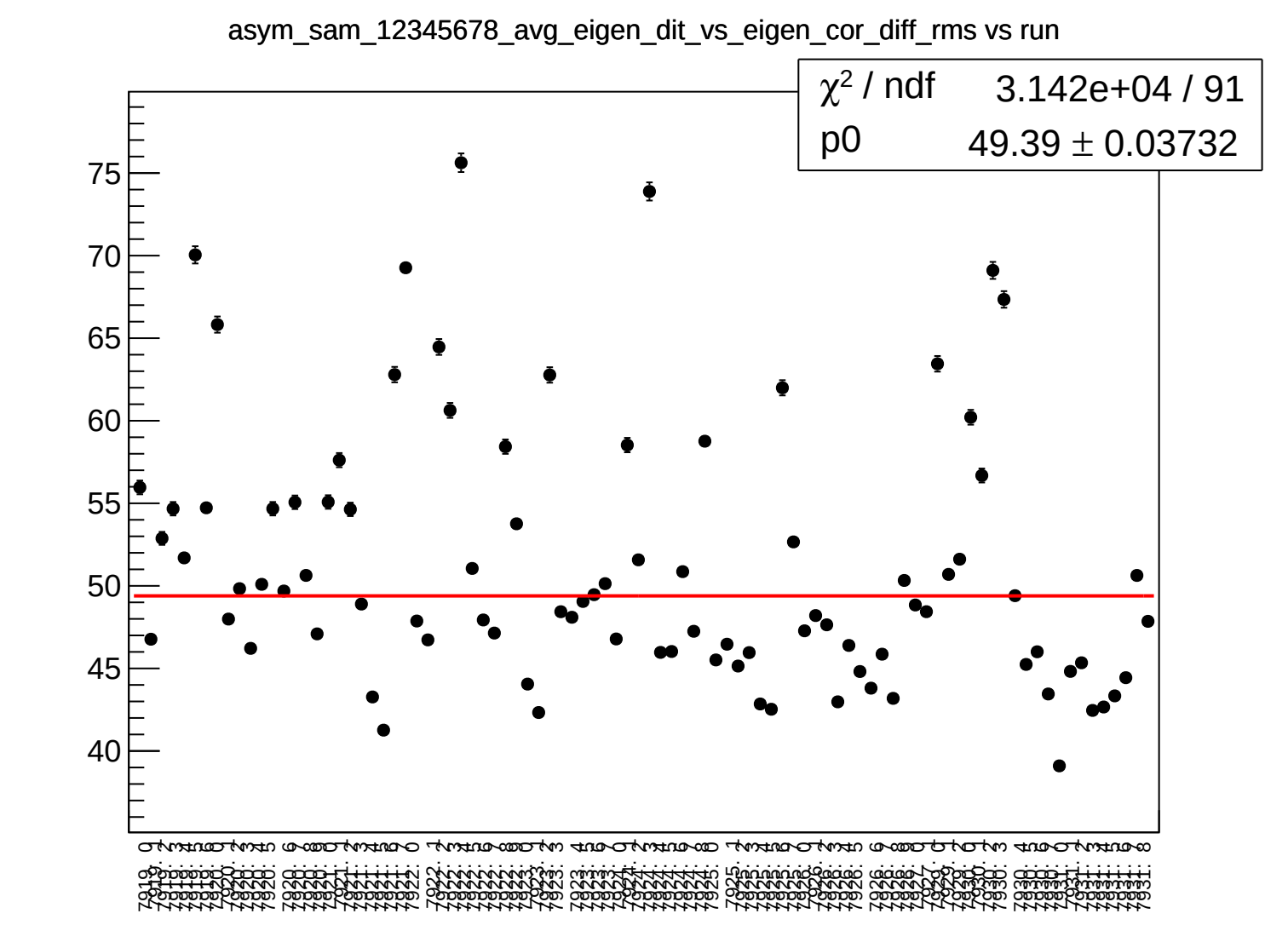

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2474 / 91
p0 0.003166 ± 2.373e−06
0.0035
0.0034
0.0033
0.0032
0.0031
0.003
0.0029

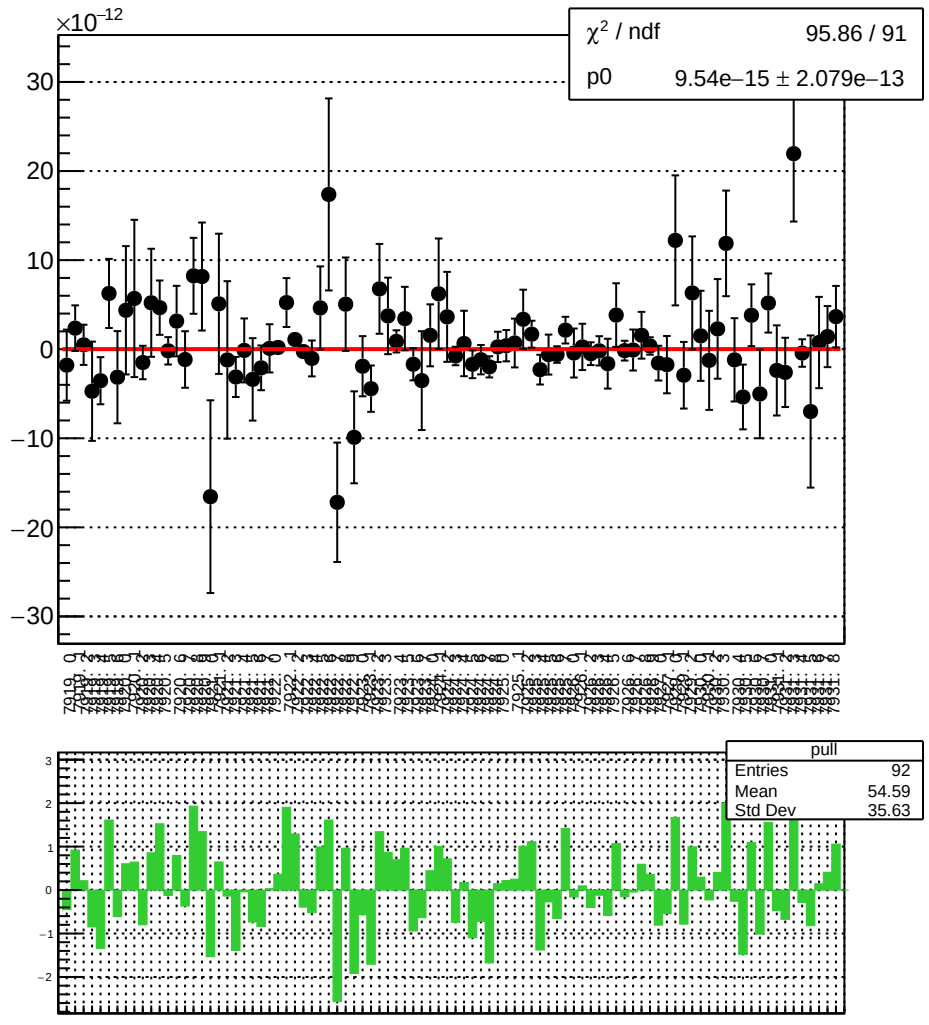

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.27 / 91
p0 −0.009157 ± 0.05278
pull
Entries 92
Mean 12.14
Std Dev 32.53
pull1D
Entries 92
Mean −0.01239
Std Dev 0.9398

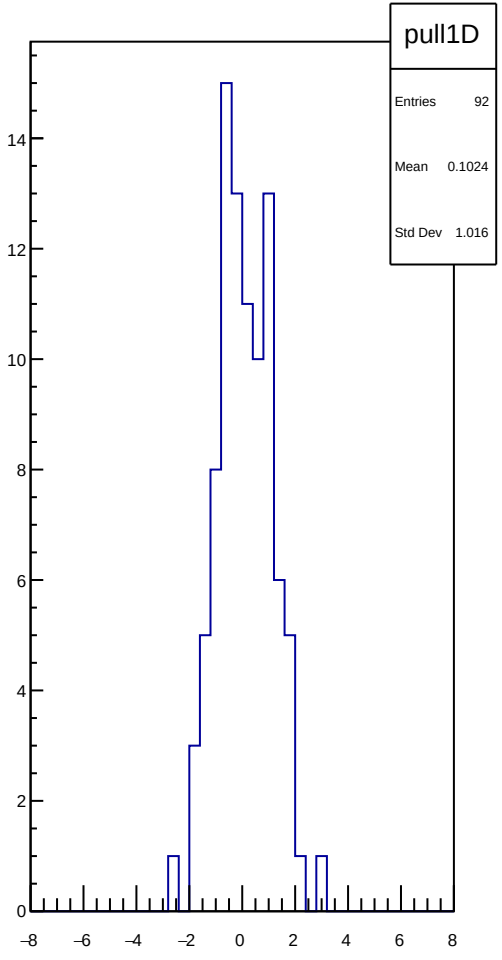

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.142e+04 / 91
p0 49.39 ± 0.03732
75
70
65
60
55
50
45
40

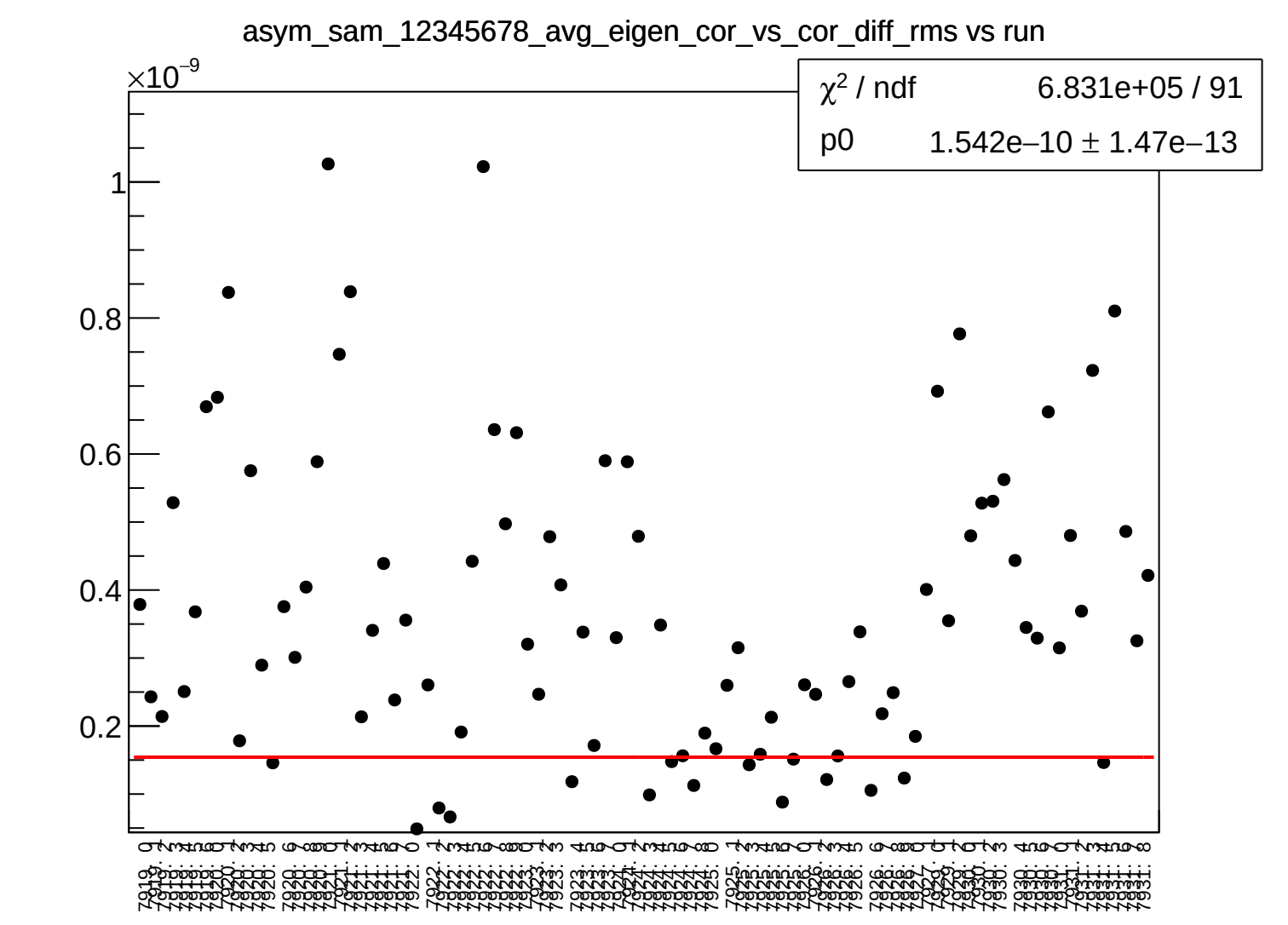

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.27 / 91
p0 −0.009157 ± 0.05278
pull
Entries 92
Mean 12.14
Std Dev 32.53

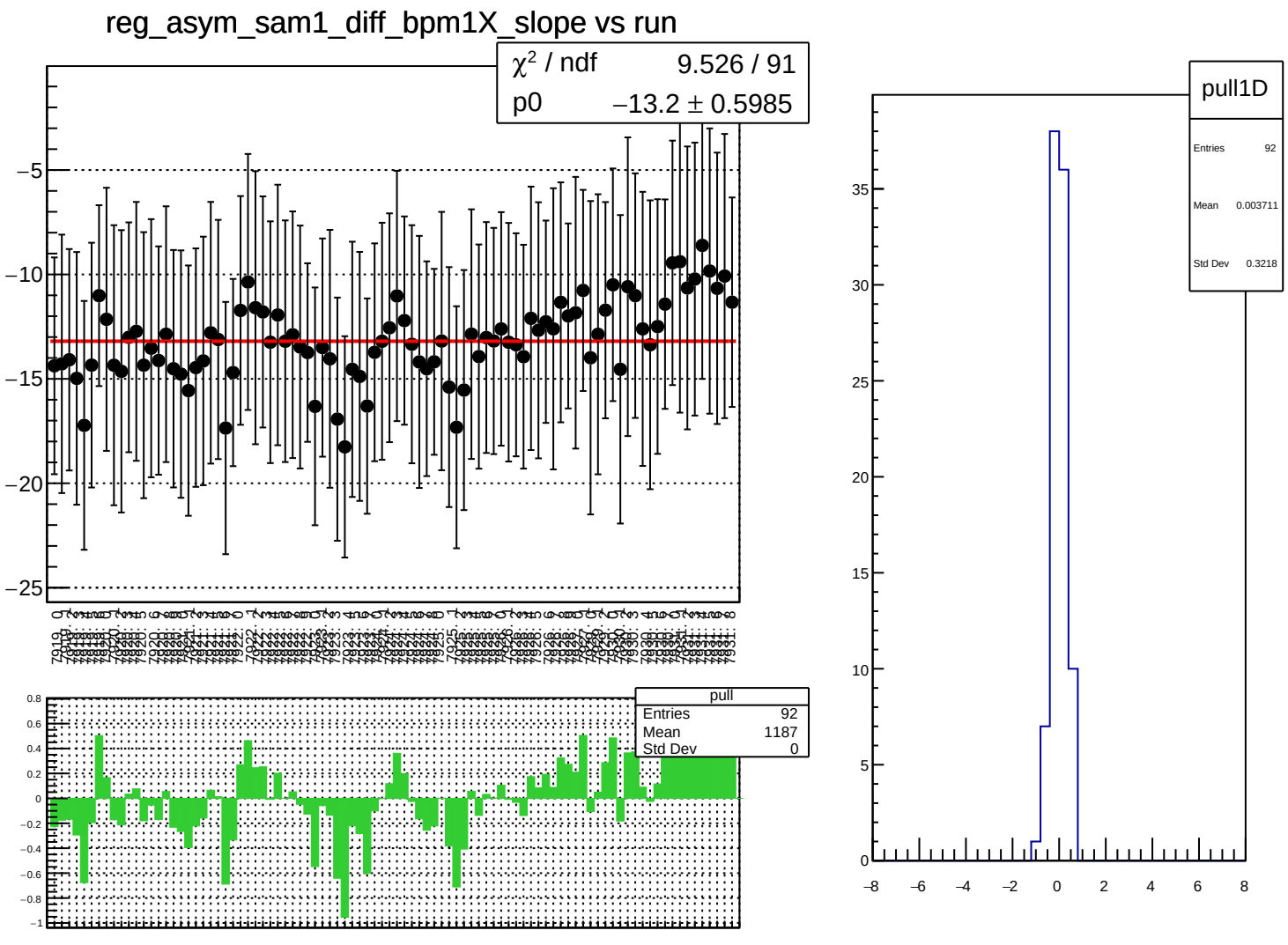

pull1D
Entries 92
Mean −0.01239
Std Dev 0.9398

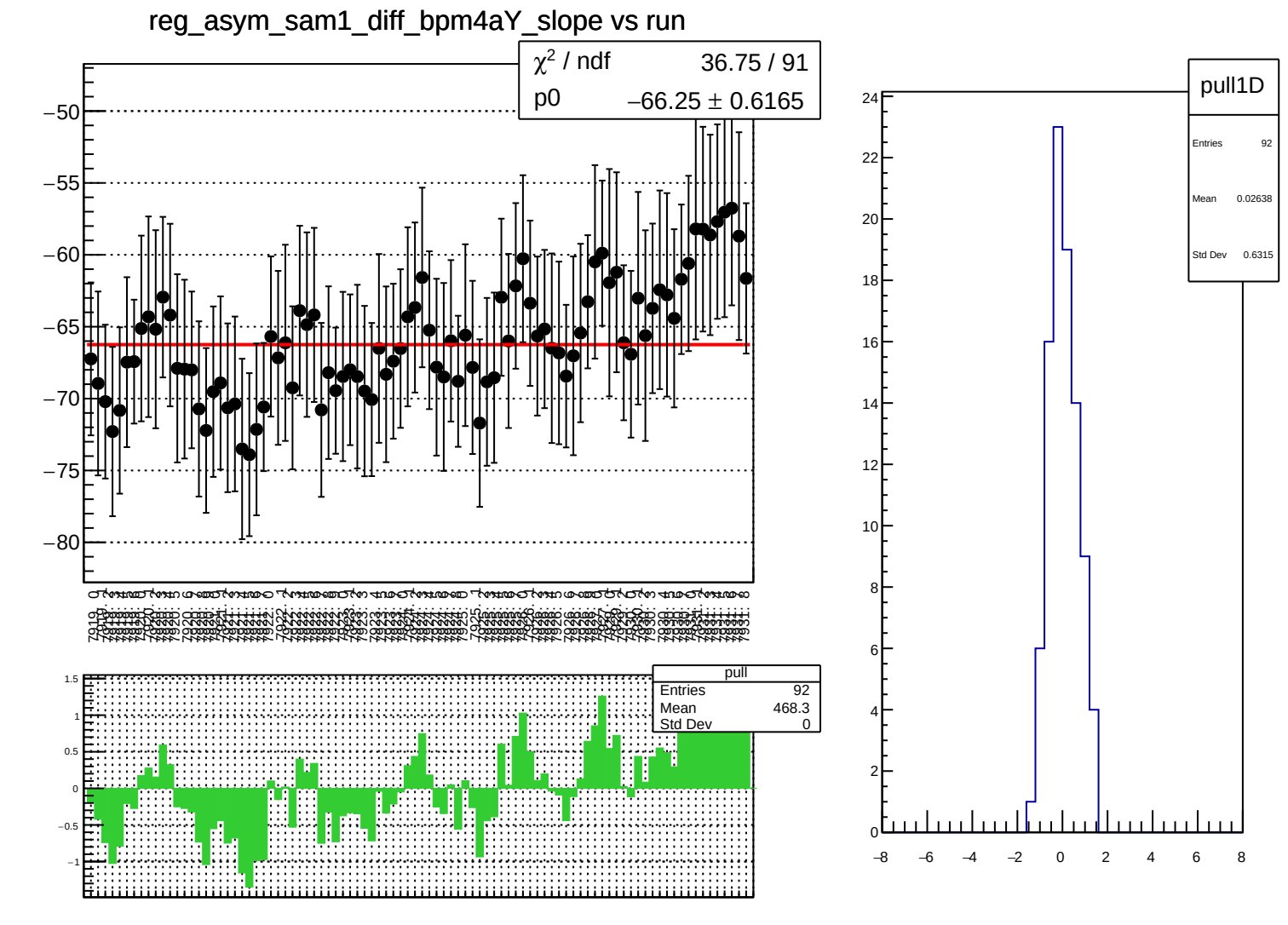

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.142e+04 / 91
p0 49.39 ± 0.03732
75
70
65
60
55
50
45
40

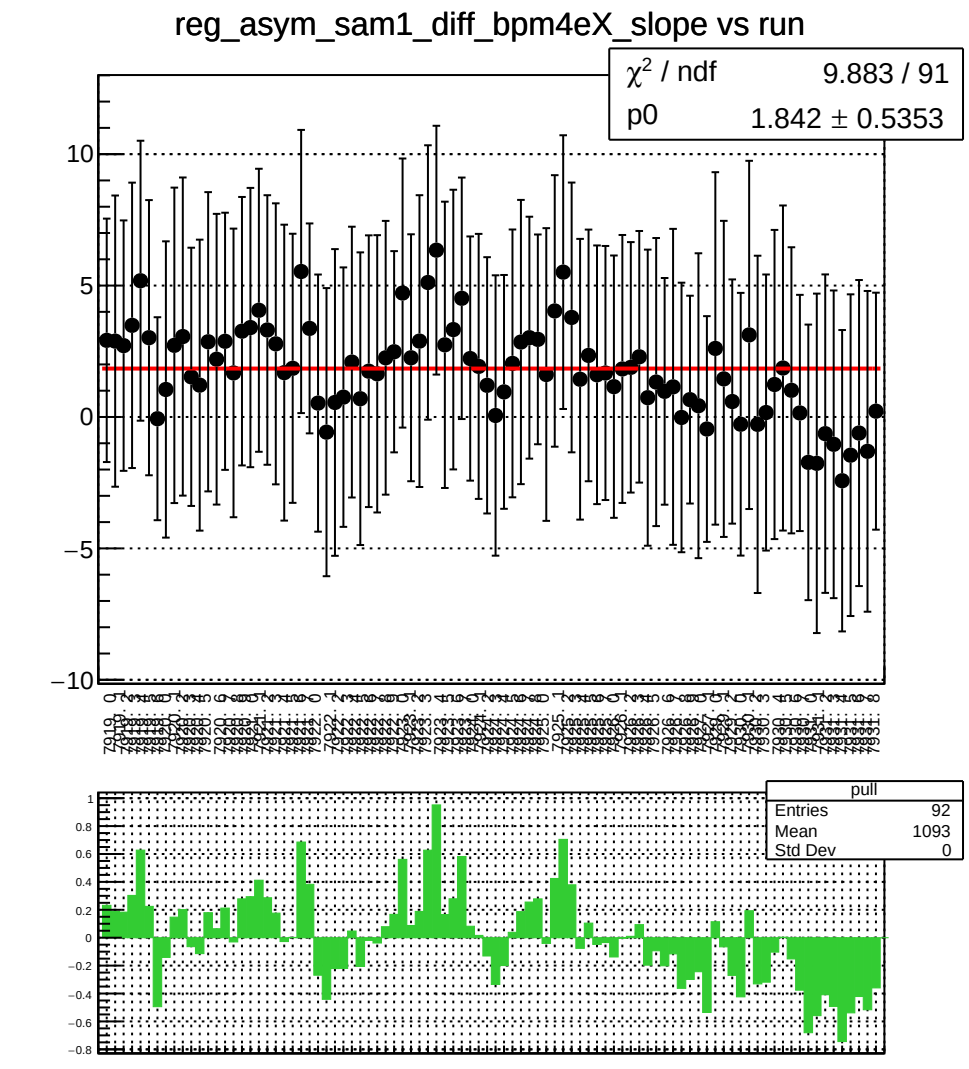

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.86 / 91
p0 9.54e−15 ± 2.079e−13
pull
Entries 92
Mean 54.59
Std Dev 35.63

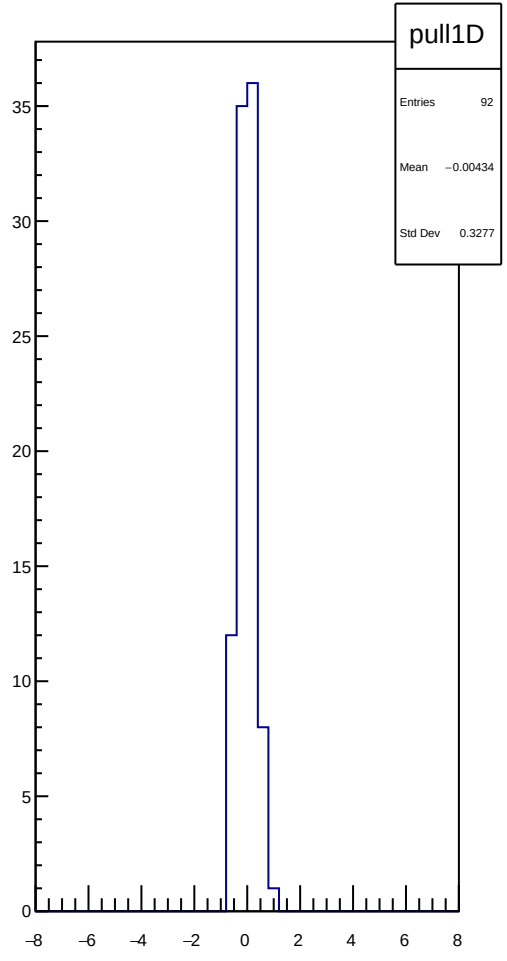

pull1D
Entries 92
Mean 0.1024
Std Dev 1.016

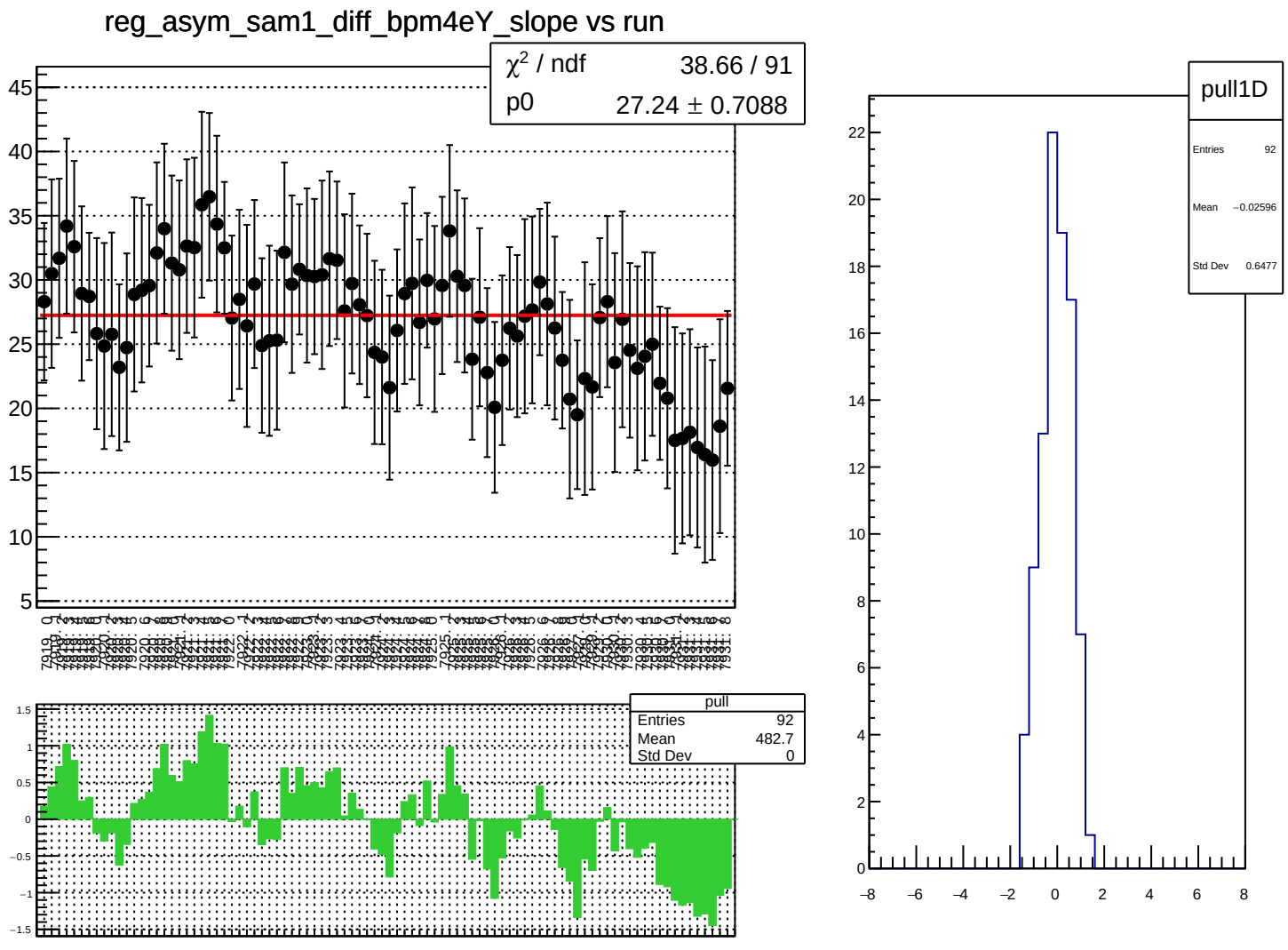

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.831e+05 / 91
p0 1.542e−10 ± 1.47e−13
1
0.8
0.6
0.4
0.2

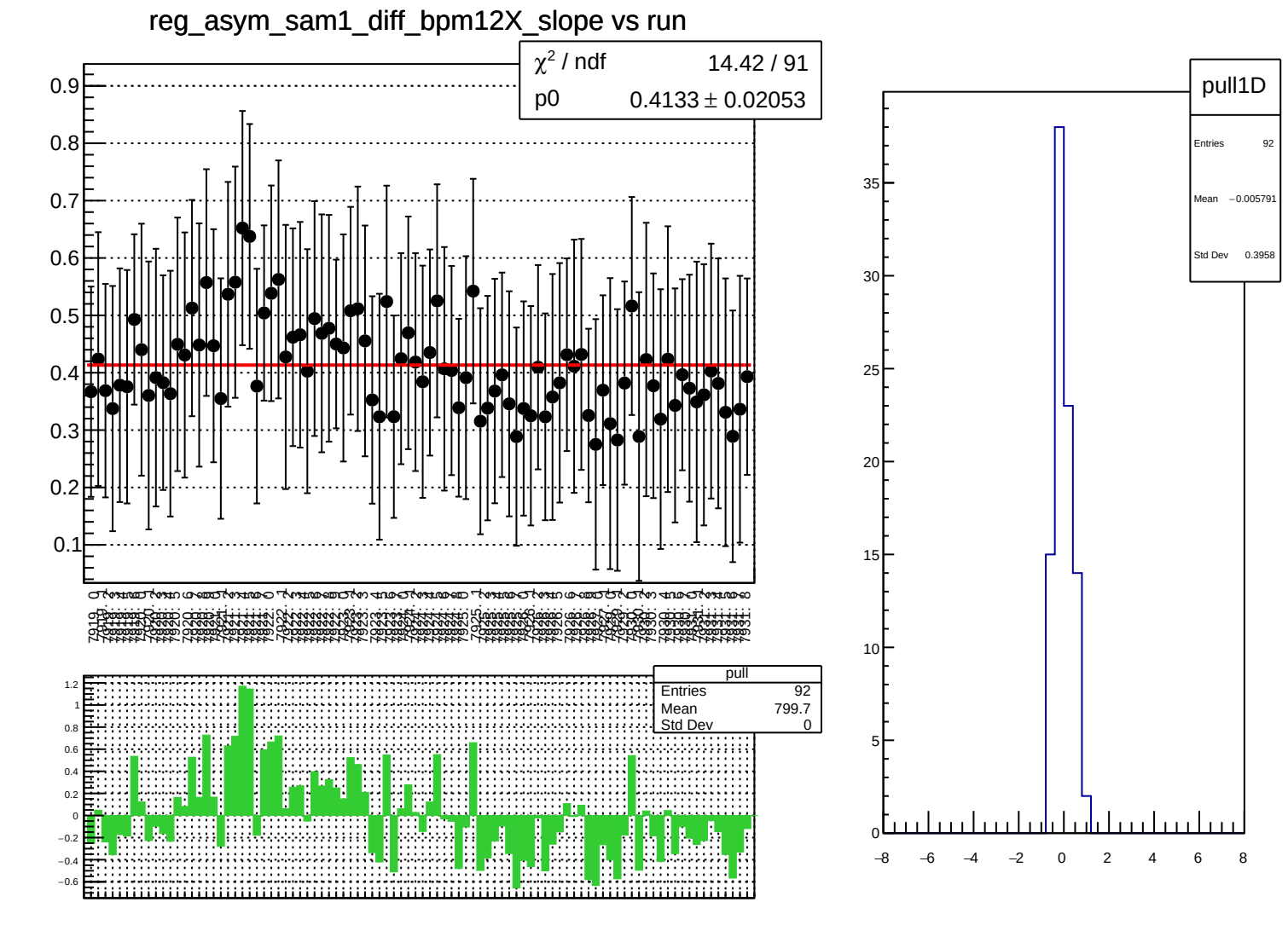

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 9.526 / 91
p0 −13.2 ± 0.5985
pull
Entries 92
Mean 1187
Std Dev 0
pull1D
Entries 92
Mean 0.003711
Std Dev 0.3218

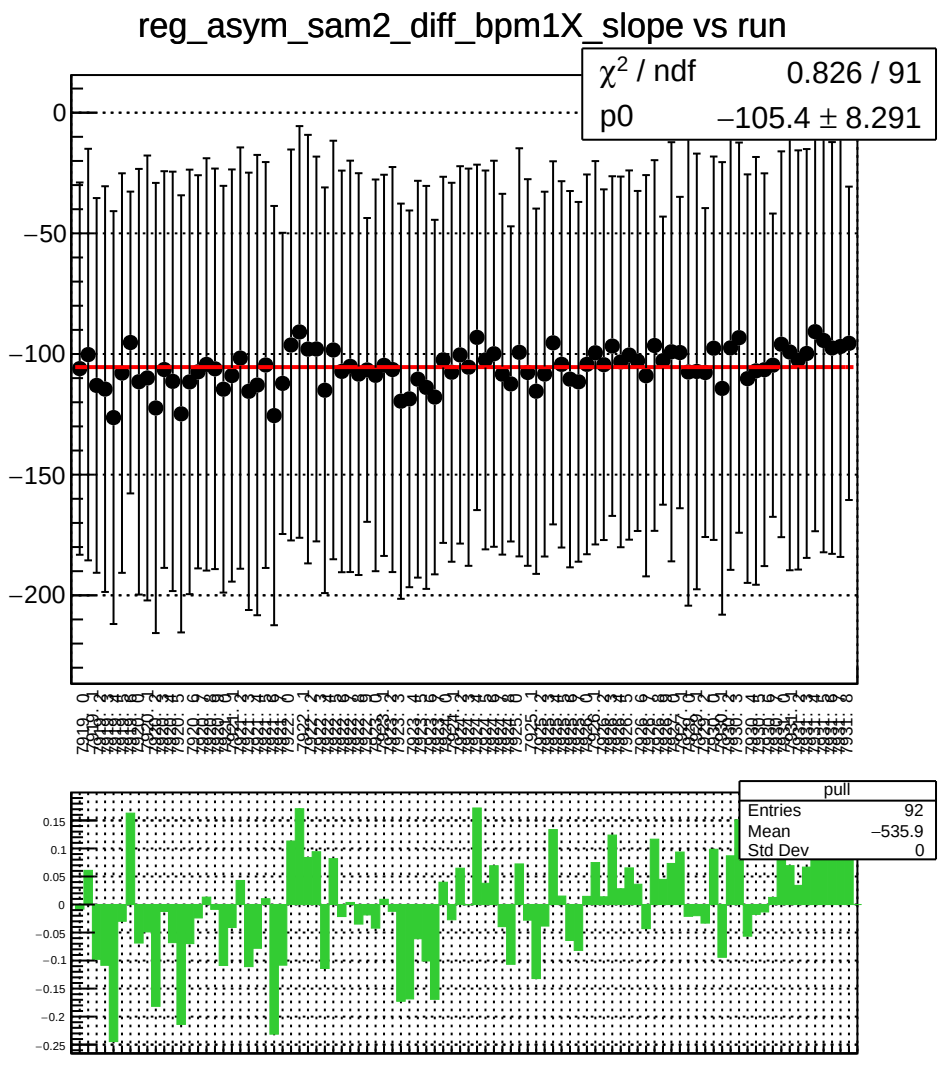

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 36.75 / 91
p0 −66.25 ± 0.6165
pull
Entries 92
Mean 468.3
Std Dev 0
pull1D
Entries 92
Mean 0.02638
Std Dev 0.6315

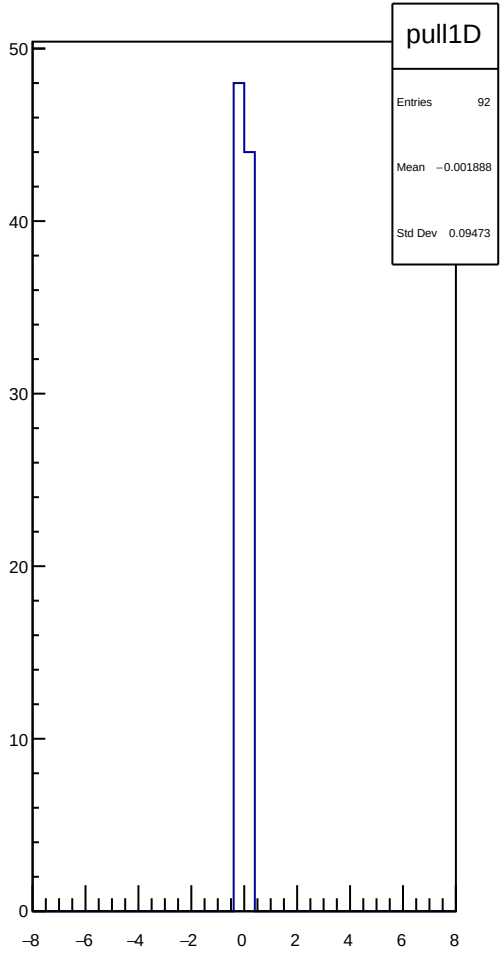

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 9.883 / 91
p0 1.842 ± 0.5353
pull
Entries 92
Mean 1093
Std Dev 0

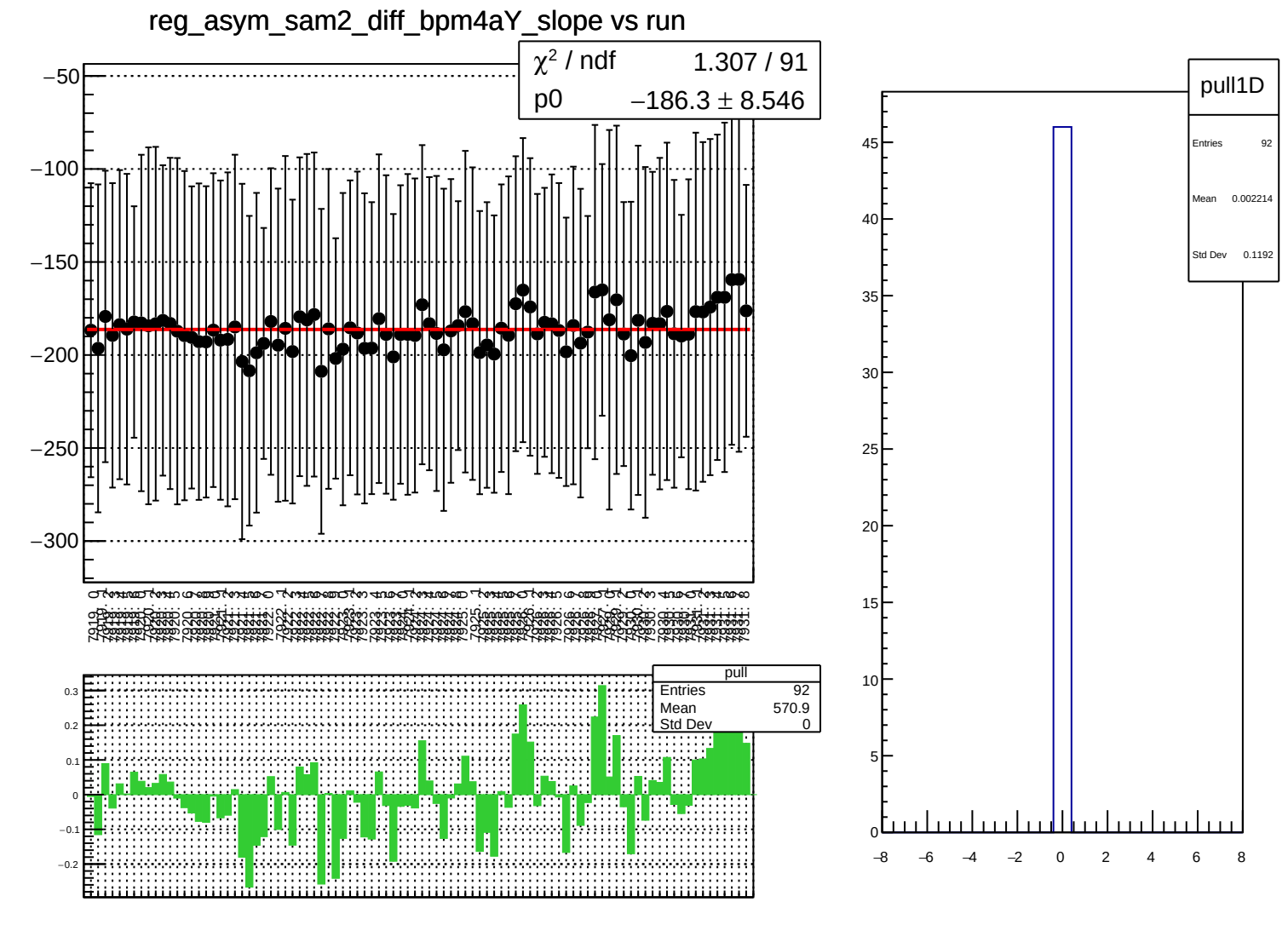

pull1D
Entries 92
Mean −0.00434
Std Dev 0.3277

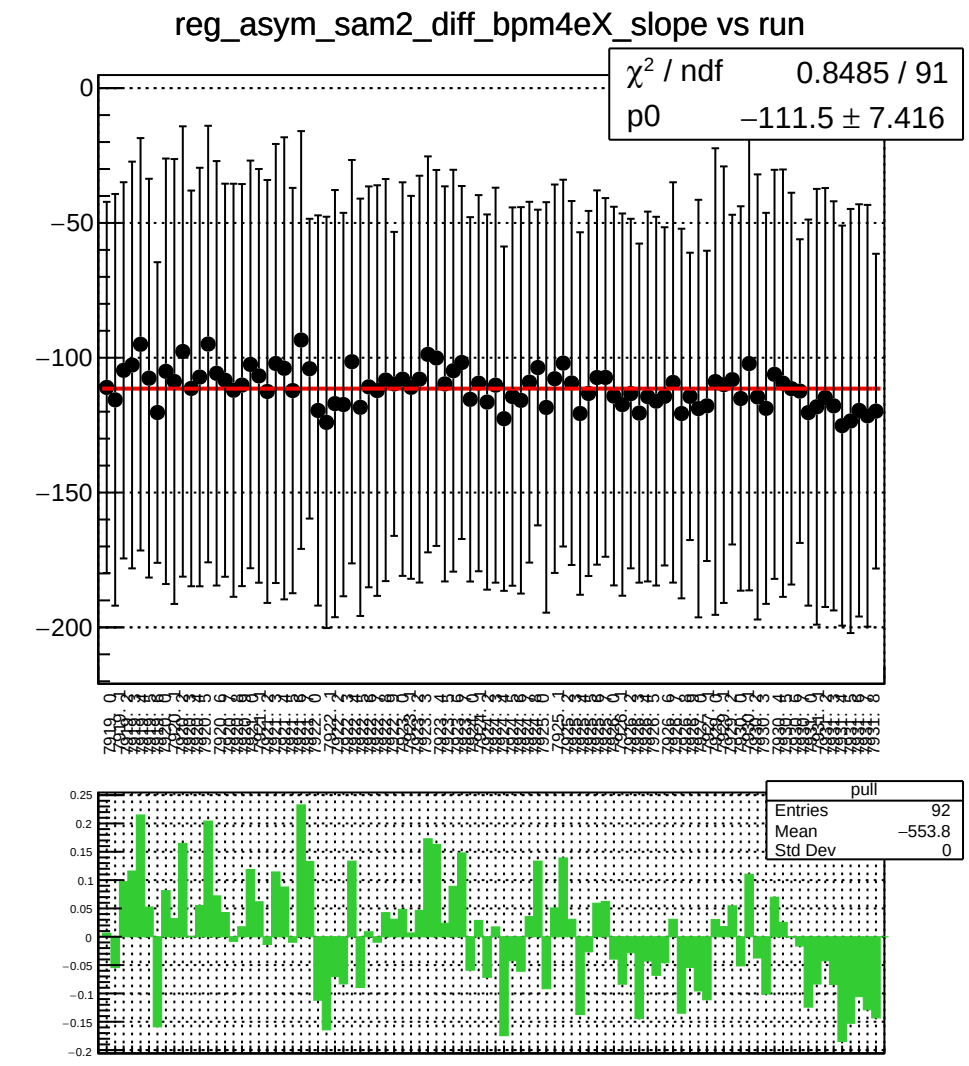

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 38.66 / 91
p0 27.24 ± 0.7088
pull
Entries 92
Mean 482.7
Std Dev 0
pull1D
Entries 92
Mean −0.02596
Std Dev 0.6477

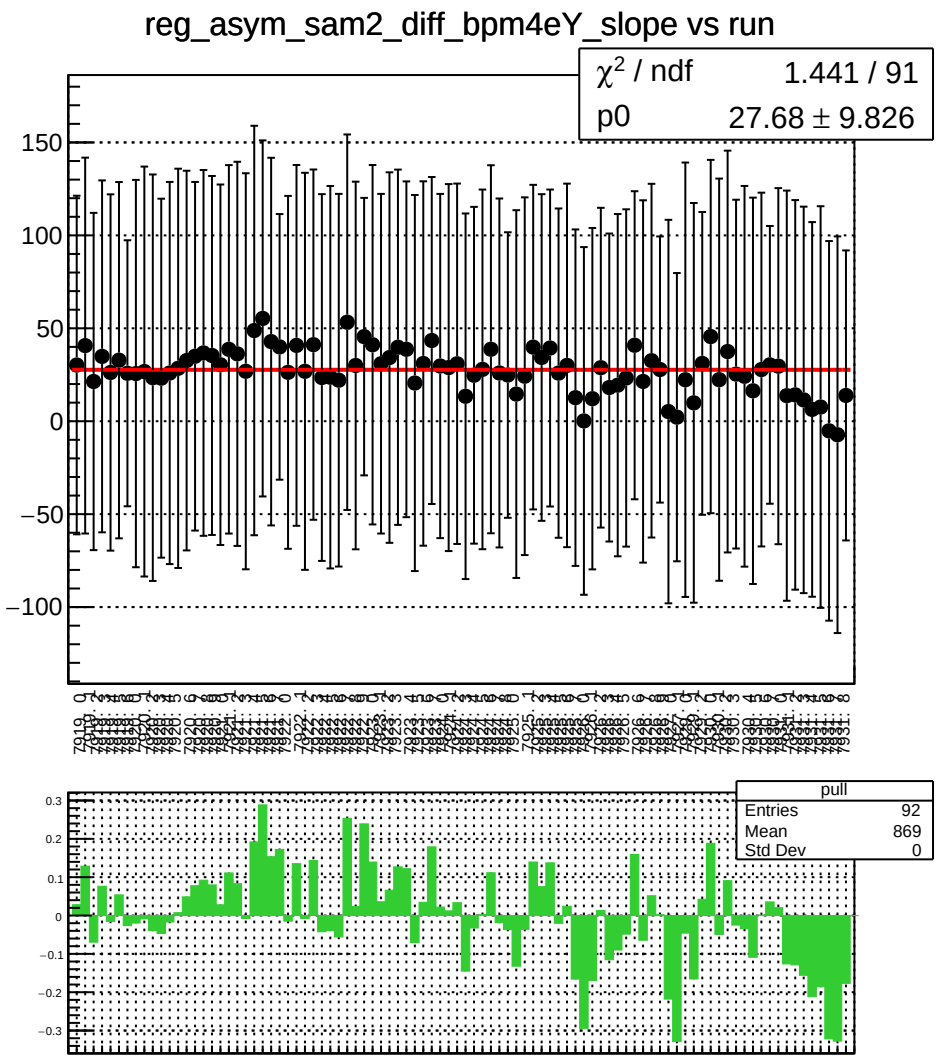

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 14.42 / 91
p0 0.4133 ± 0.02053
pull
Entries 92
Mean 799.7
Std Dev 0
pull1D
Entries 92
Mean −0.005791
Std Dev 0.3958

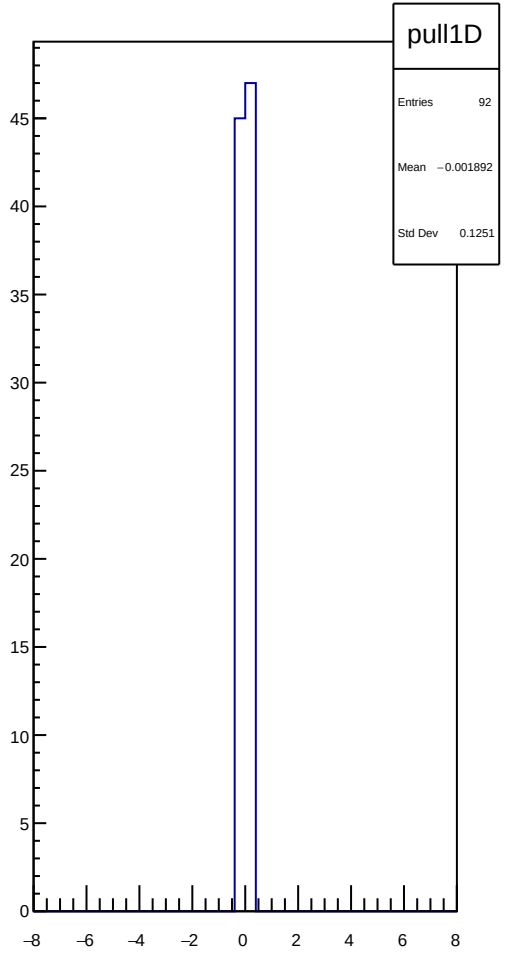

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 0.826 / 91
p0 −105.4 ± 8.291
pull
Entries 92
Mean −535.9
Std Dev 0

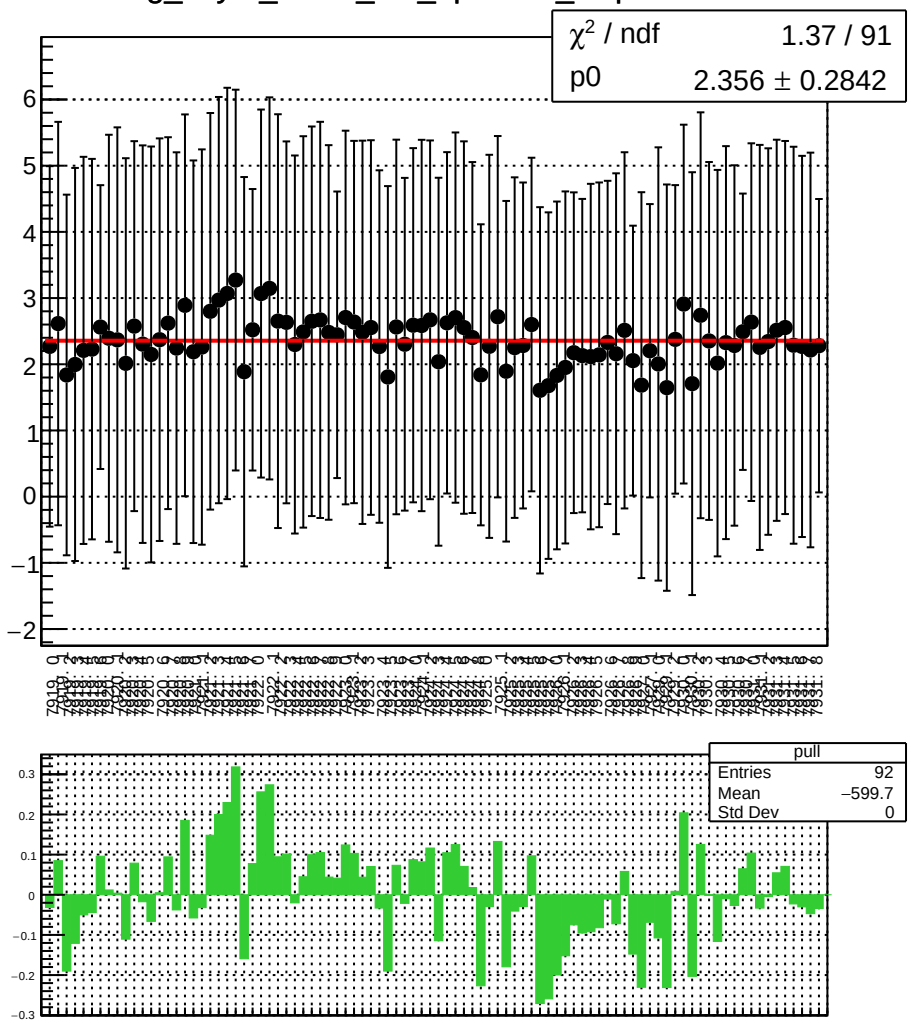

pull1D
Entries 92
Mean −0.001888
Std Dev 0.09473

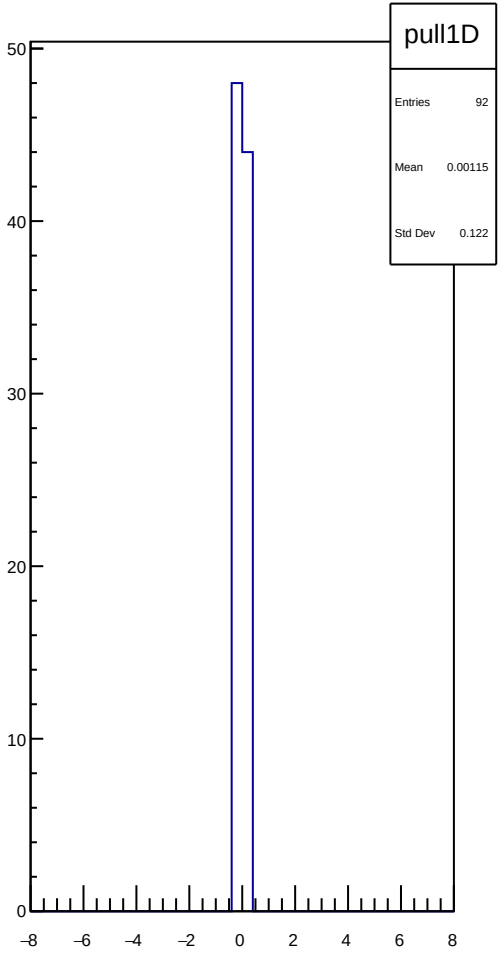

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 1.307 / 91
p0 −186.3 ± 8.546
pull
Entries 92
Mean 570.9
Std Dev 0
pull1D
Entries 92
Mean 0.002214
Std Dev 0.1192

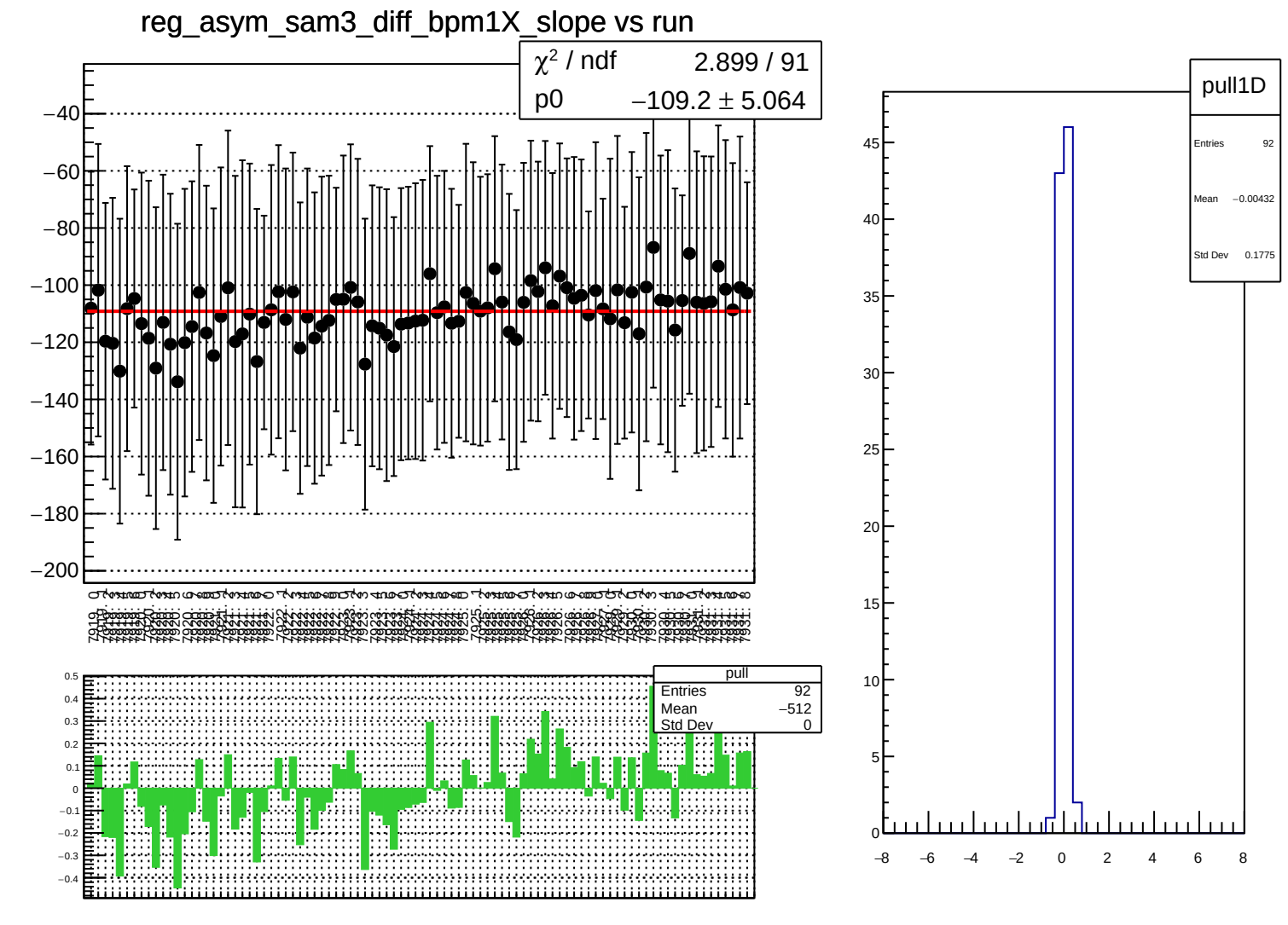

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 0.8485 / 91
p0 −111.5 ± 7.416
pull
Entries 92
Mean −553.8
Std Dev 0
pull1D
Entries 92
Mean 0.001933
Std Dev 0.09601

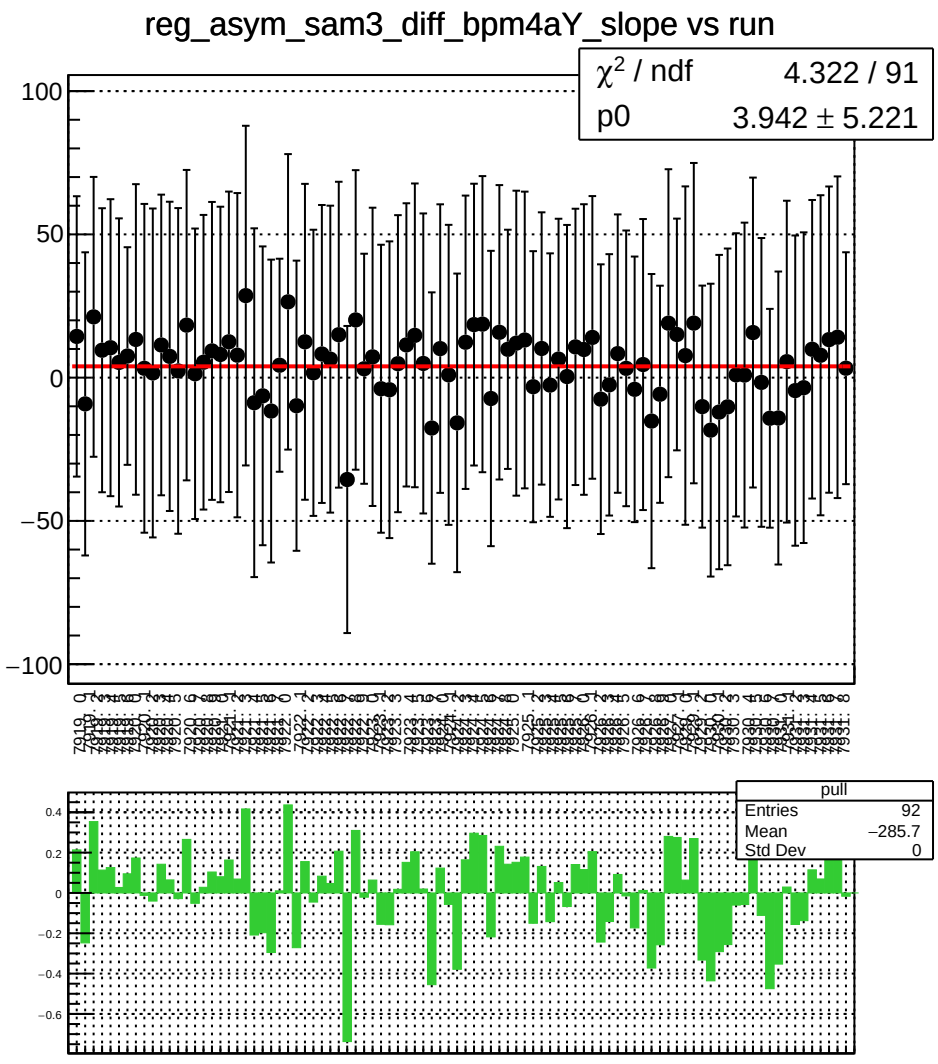

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 1.441 / 91
p0 27.68 ± 9.826
150
100
50
0
−50
−100
pull
Entries 92
Mean 869
Std Dev 0
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

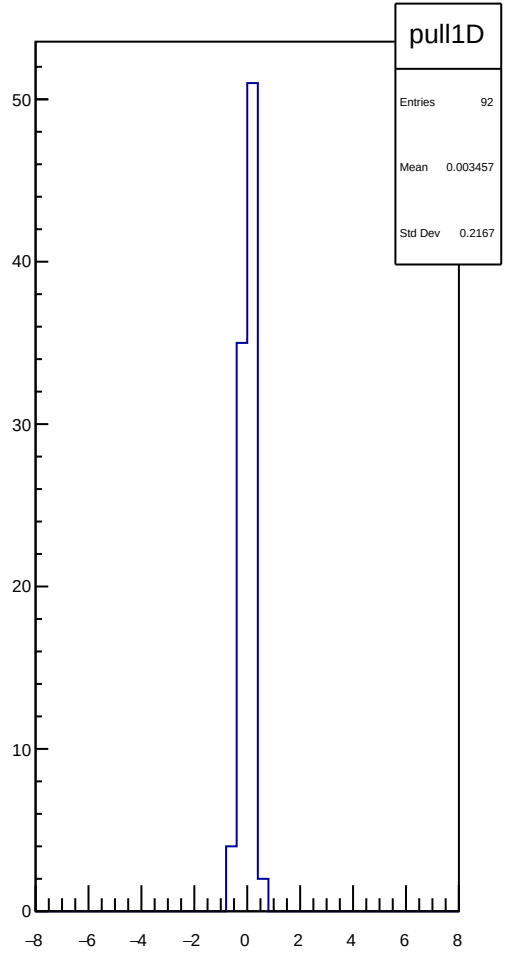

pull1D
Entries 92
Mean −0.001892
Std Dev 0.1251
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

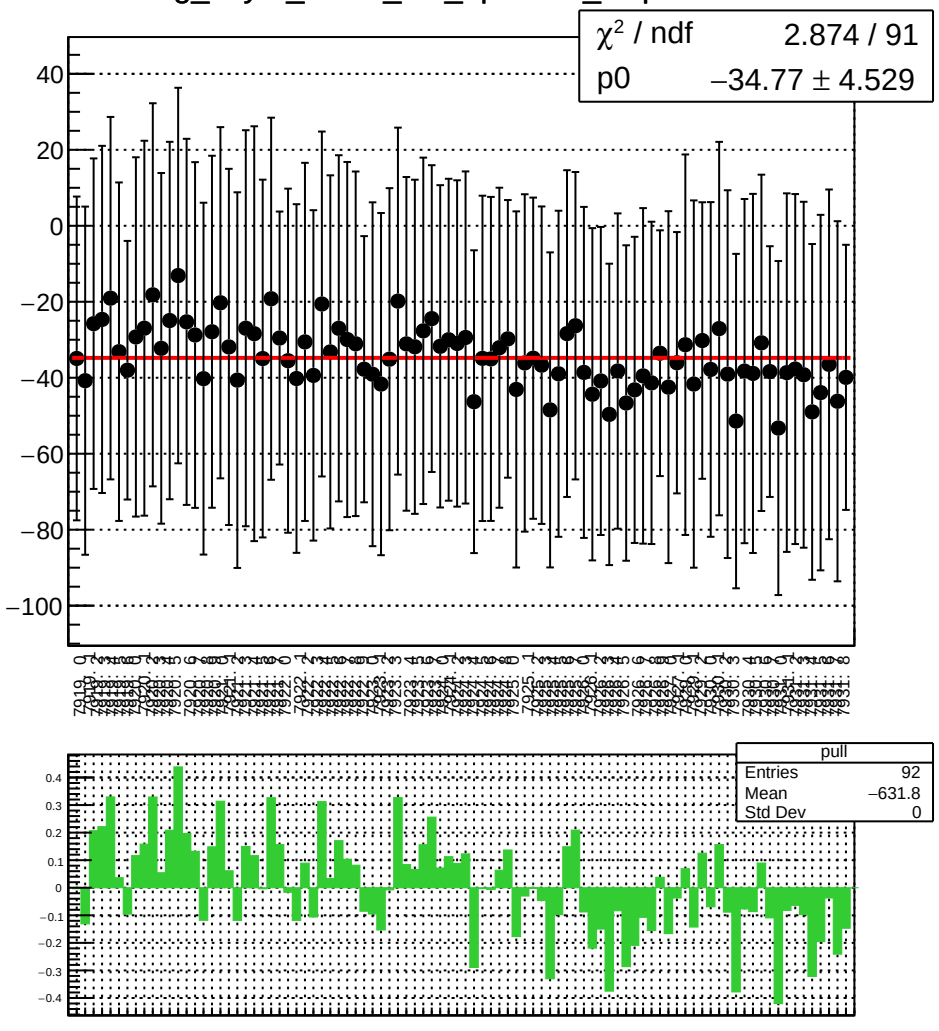

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 1.37 / 91
p0 2.356 ± 0.2842
pull
Entries 92
Mean −599.7
Std Dev 0

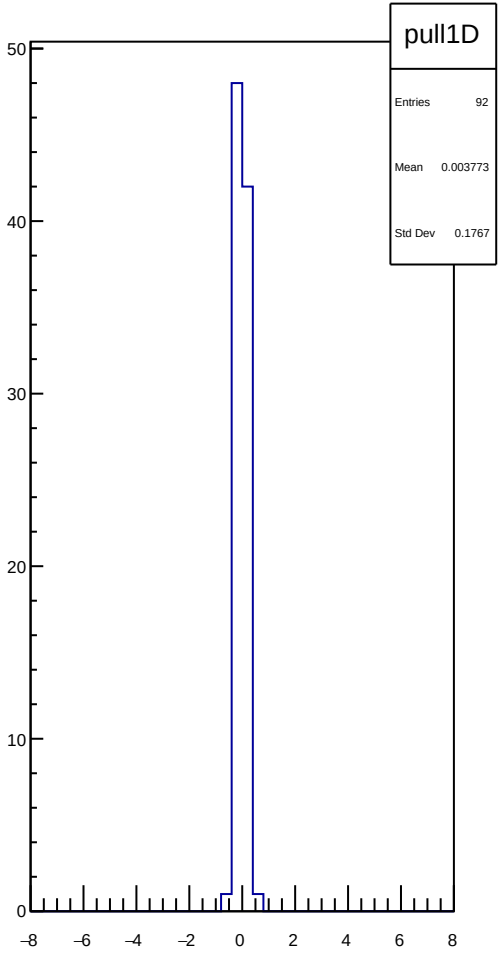

pull1D
Entries 92
Mean 0.00115
Std Dev 0.122

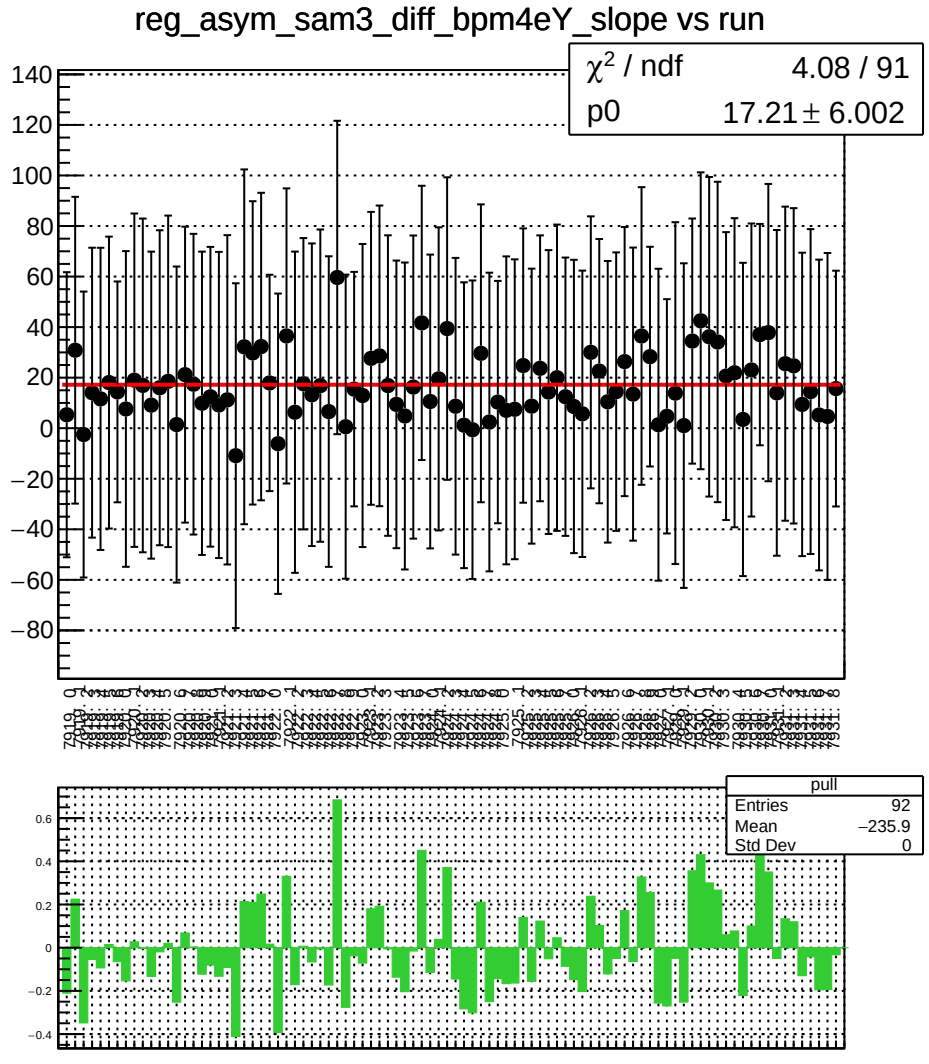

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 2.899 / 91
p0 −109.2 ± 5.064
pull
Entries 92
Mean −512
Std Dev 0
pull1D
Entries 92
Mean −0.00432
Std Dev 0.1775

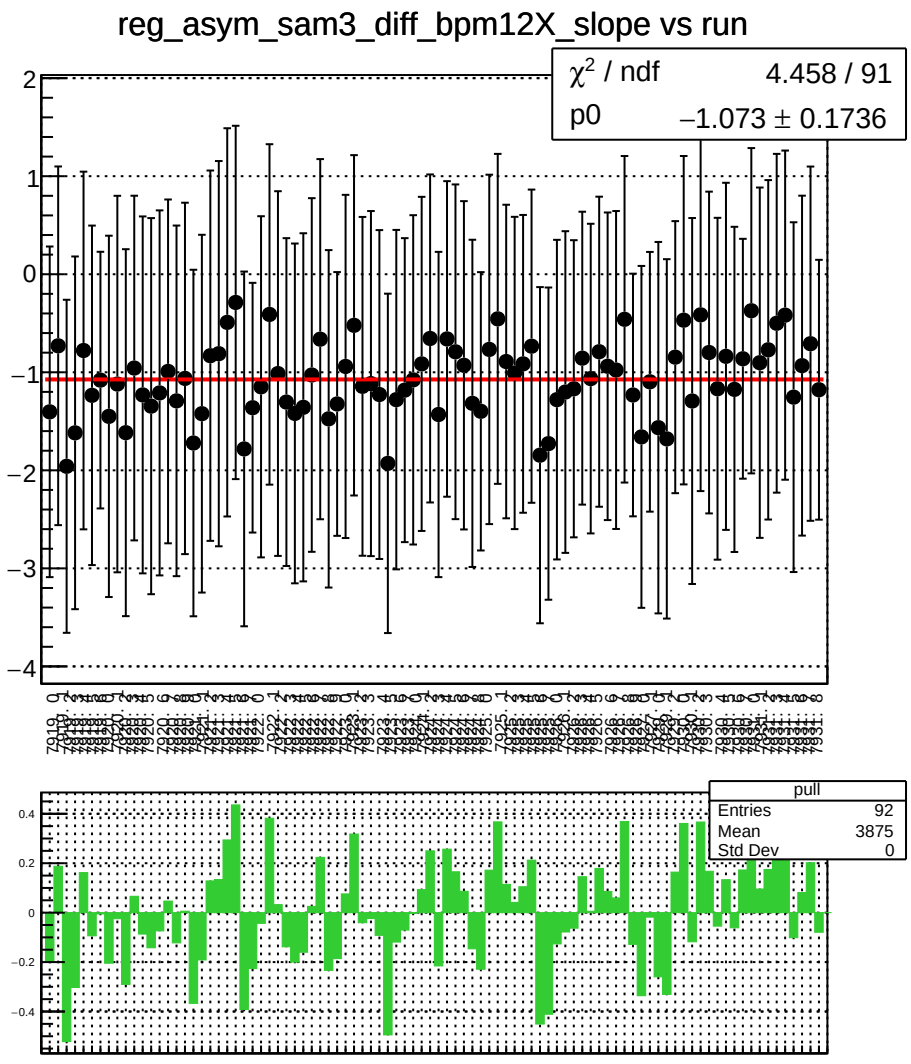

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 4.322 / 91
p0 3.942 ± 5.221
100
50
0
−50
−100
pull
Entries 92
Mean −285.7
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6

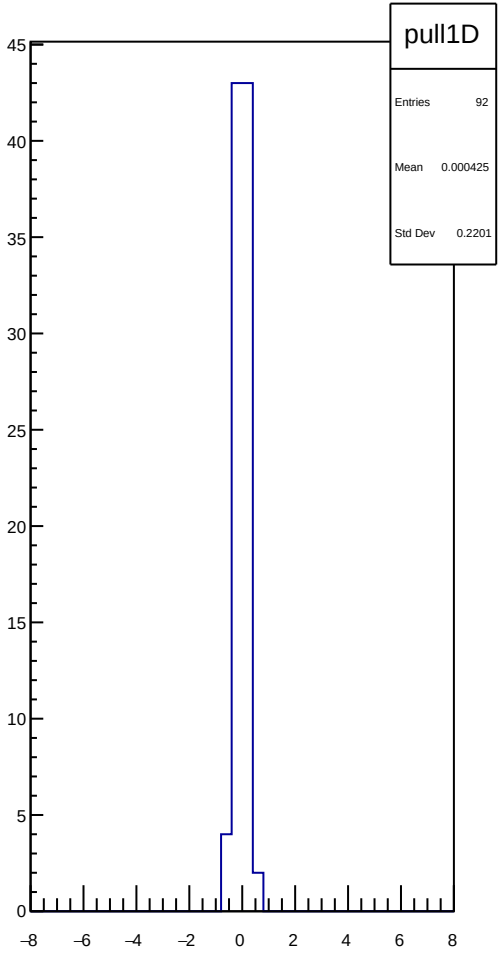

pull1D
Entries 92
Mean 0.003457
Std Dev 0.2167
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

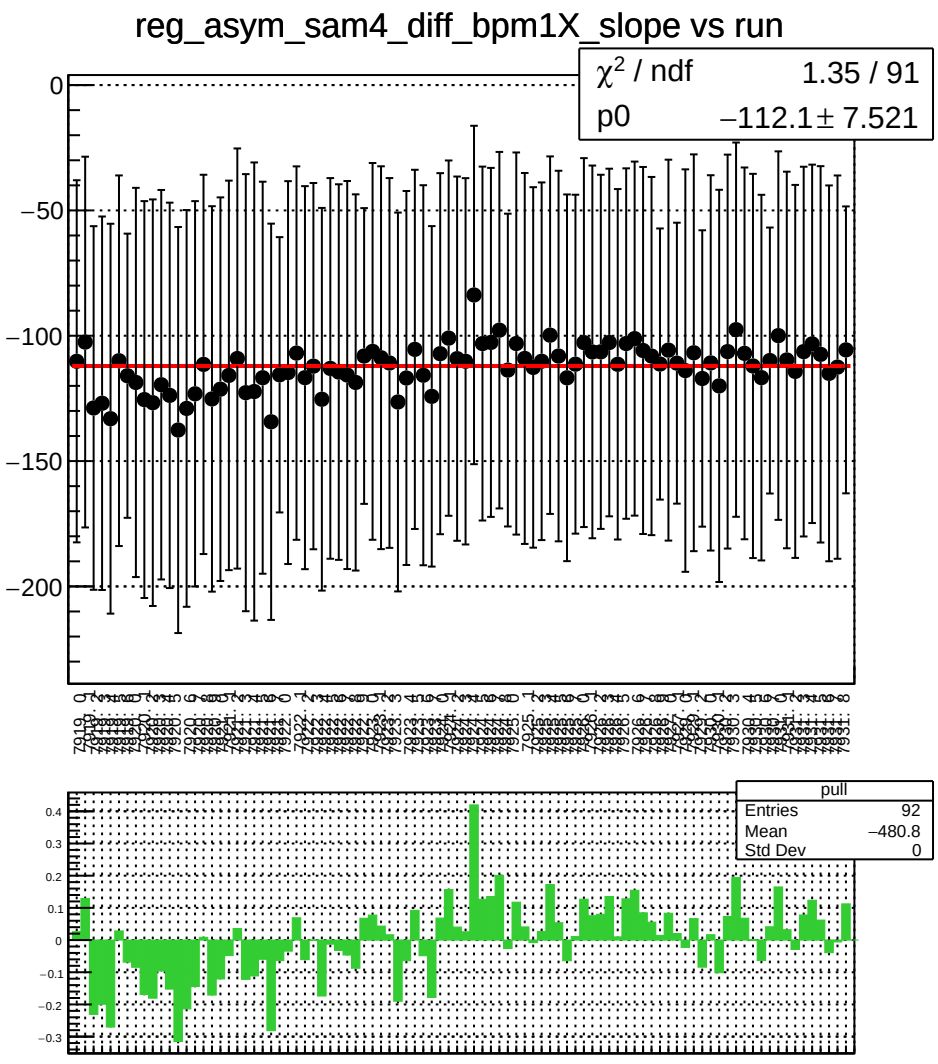

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 2.874 / 91
p0 −34.77 ± 4.529
pull
Entries 92
Mean −631.8
Std Dev 0

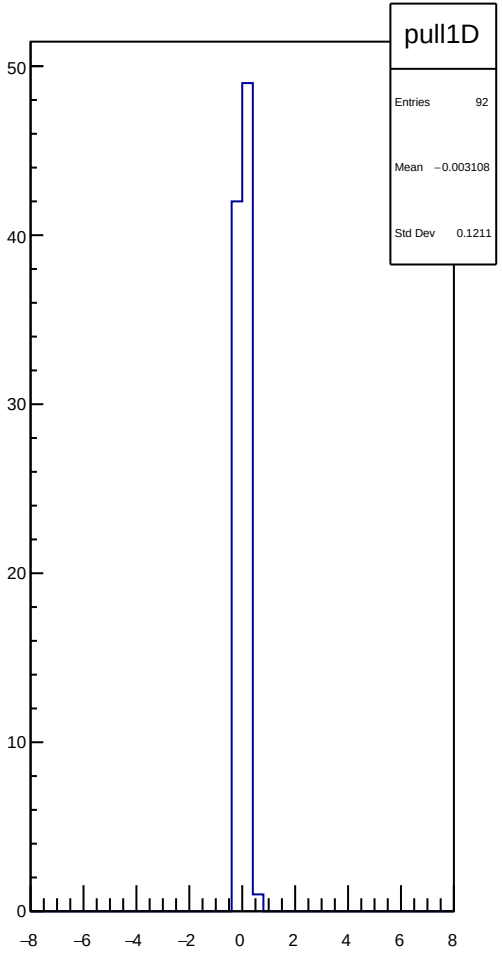

pull1D
Entries 92
Mean 0.003773
Std Dev 0.1767

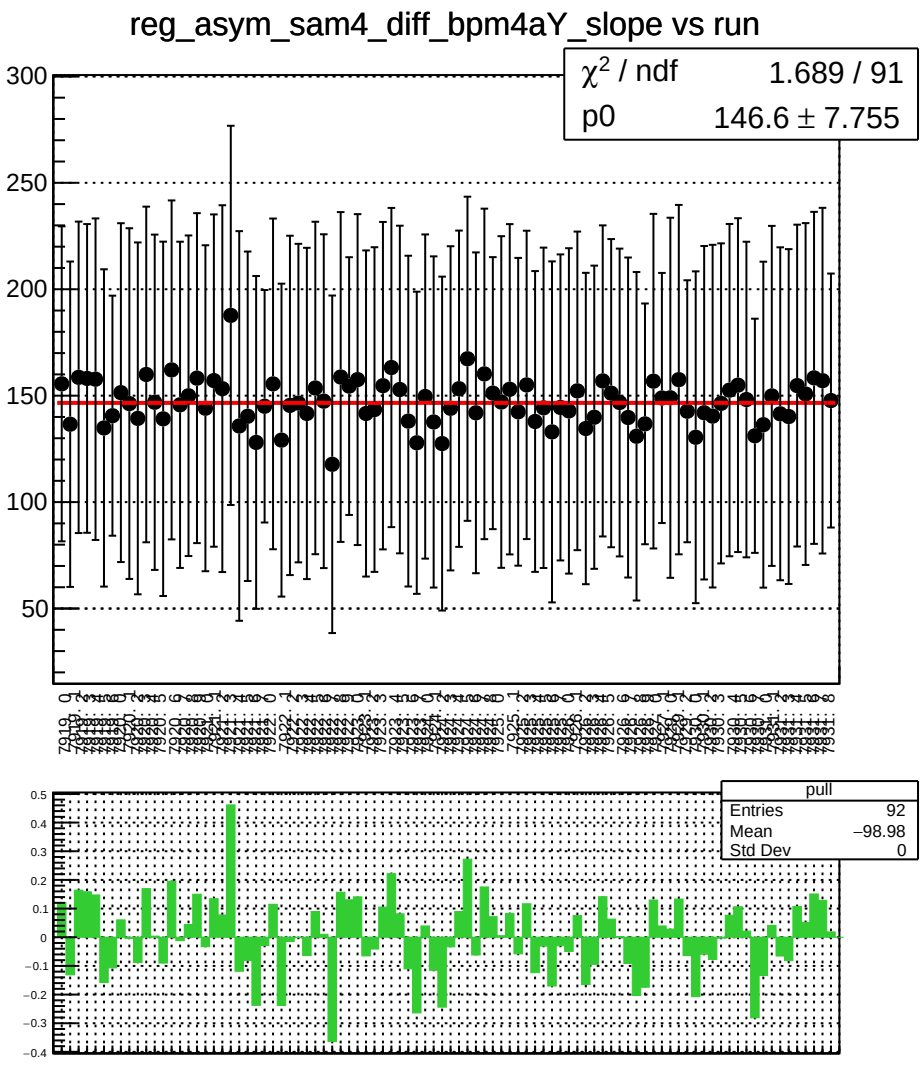

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 4.08 / 91
p0 17.21 ± 6.002
pull
Entries 92
Mean −235.9
Std Dev 0
pull1D
Entries 92
Mean −0.003291
Std Dev 0.2106

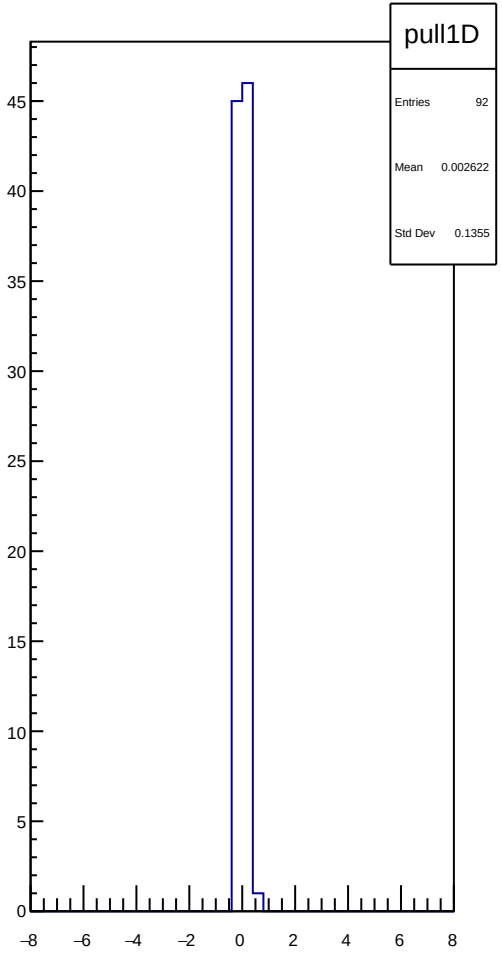

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 4.458 / 91
p0 −1.073 ± 0.1736
pull
Entries 92
Mean 3875
Std Dev 0

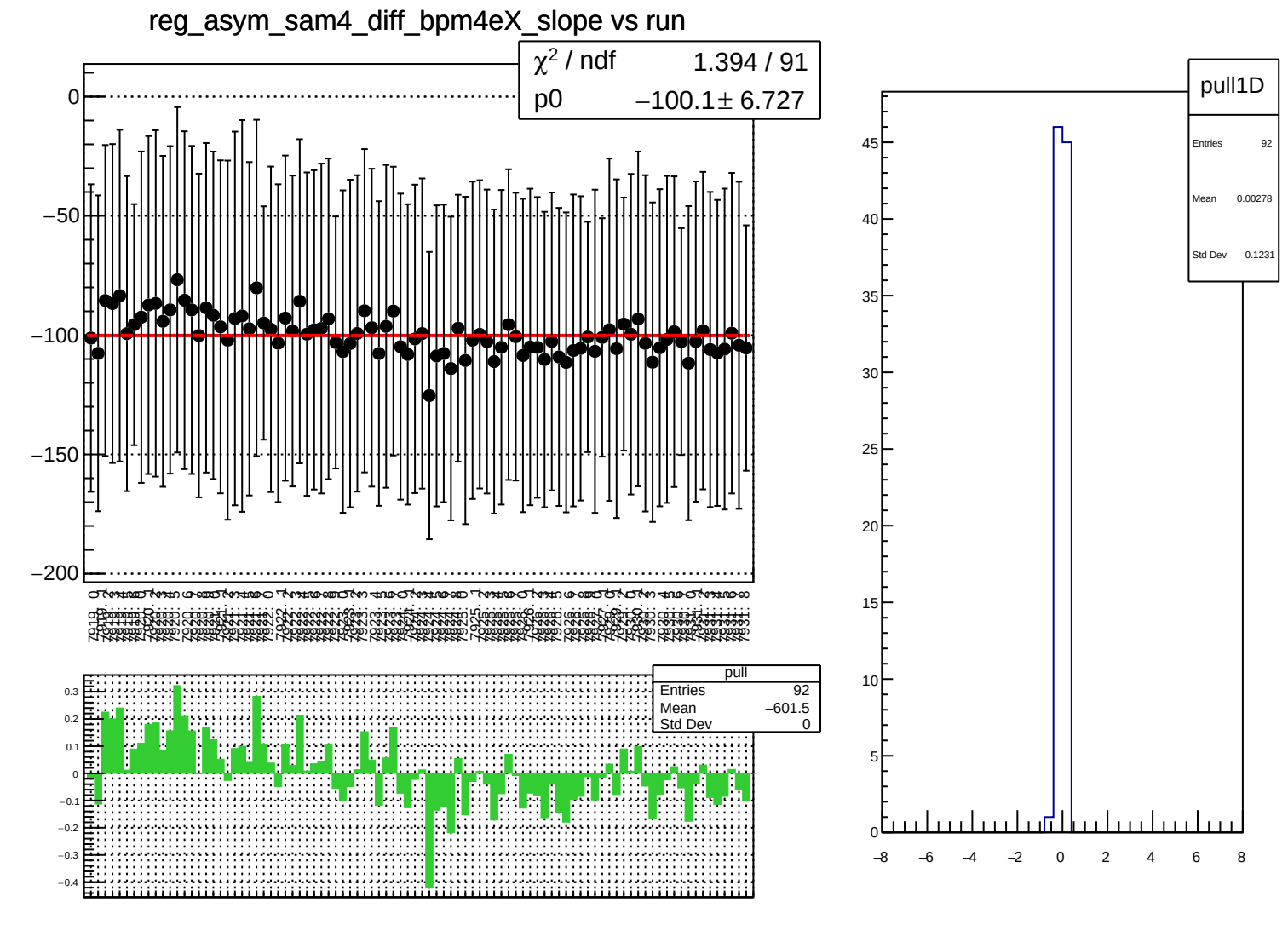

pull1D
Entries 92
Mean 0.000425
Std Dev 0.2201

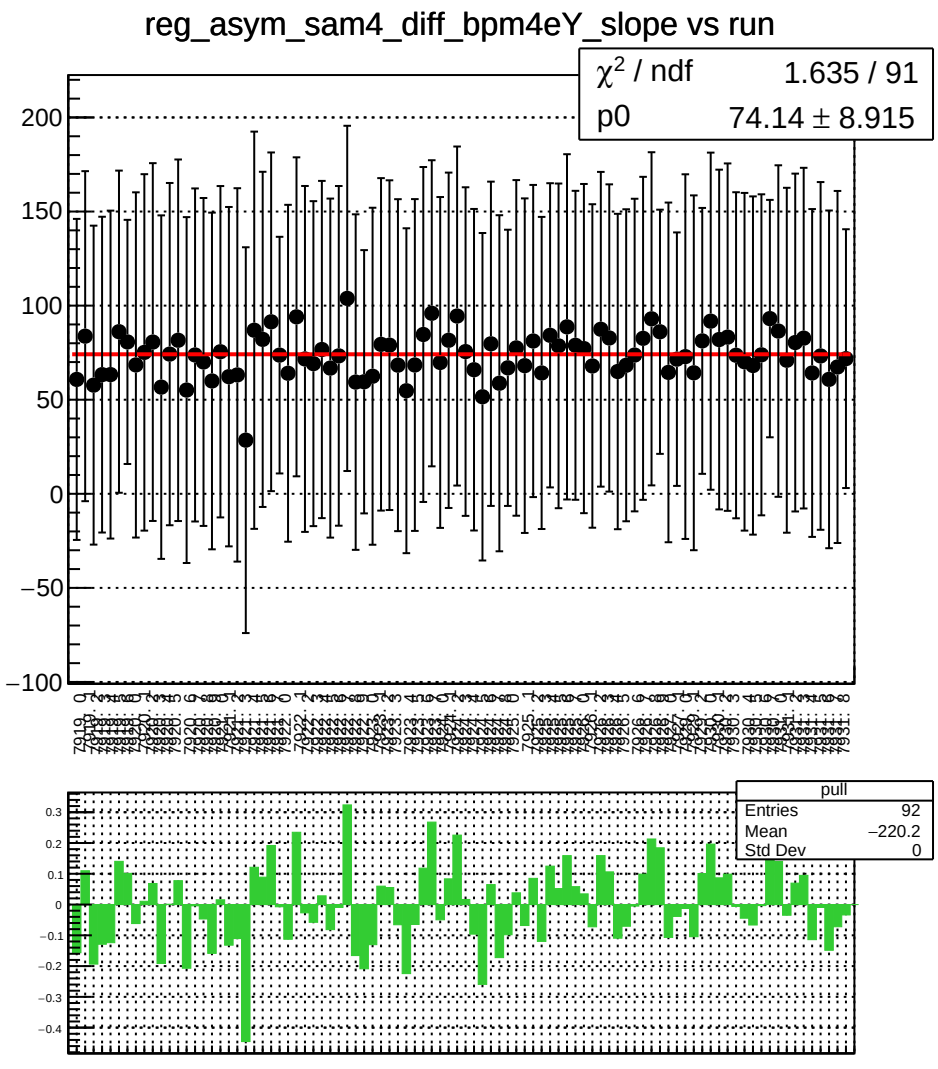

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 1.35 / 91
p0 −112.1 ± 7.521
pull
Entries 92
Mean −480.8
Std Dev 0

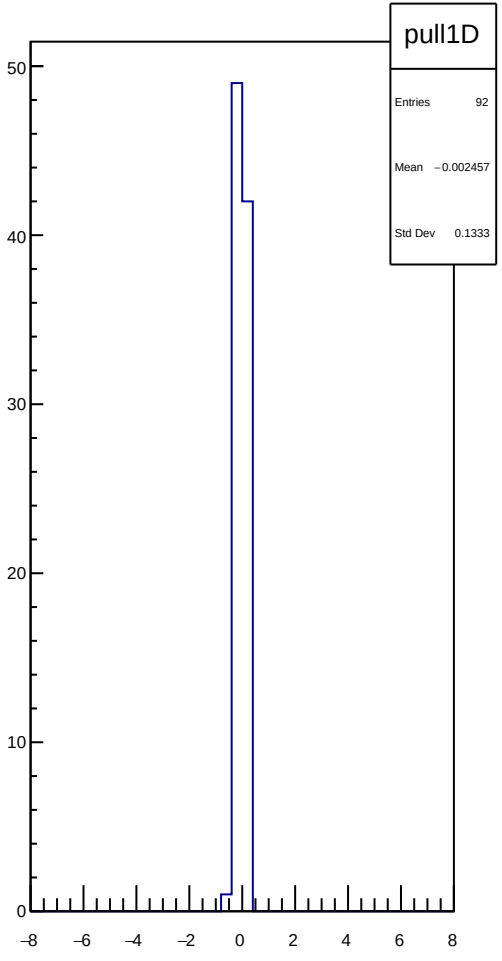

pull1D
Entries 92
Mean −0.003108
Std Dev 0.1211

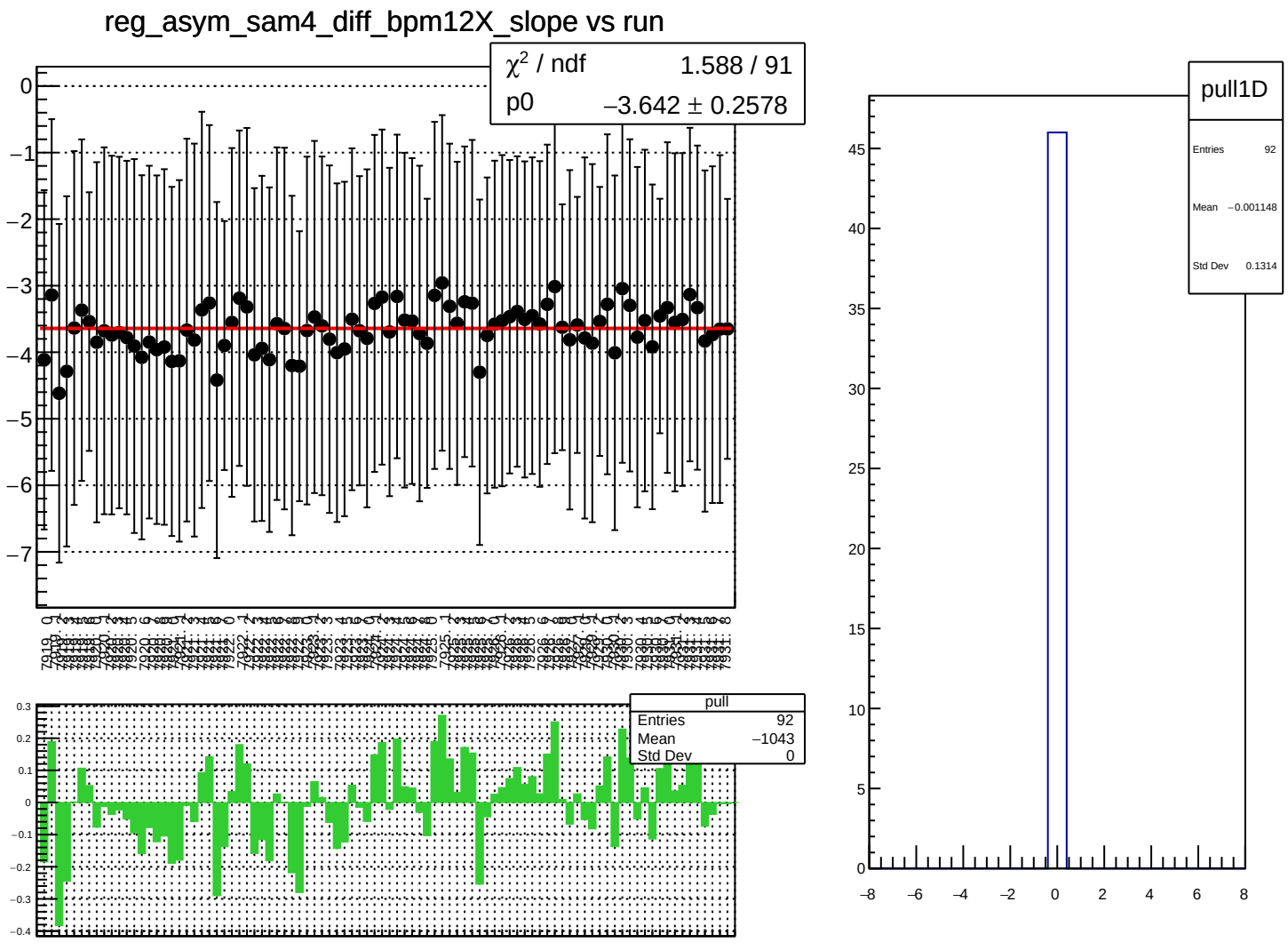

reg_asym_sam4_diff_bpm4aY_slope vs run
χ^2 / ndf 1.689 / 91
p0 146.6 ± 7.755
pull
Entries 92
Mean −98.98
Std Dev 0

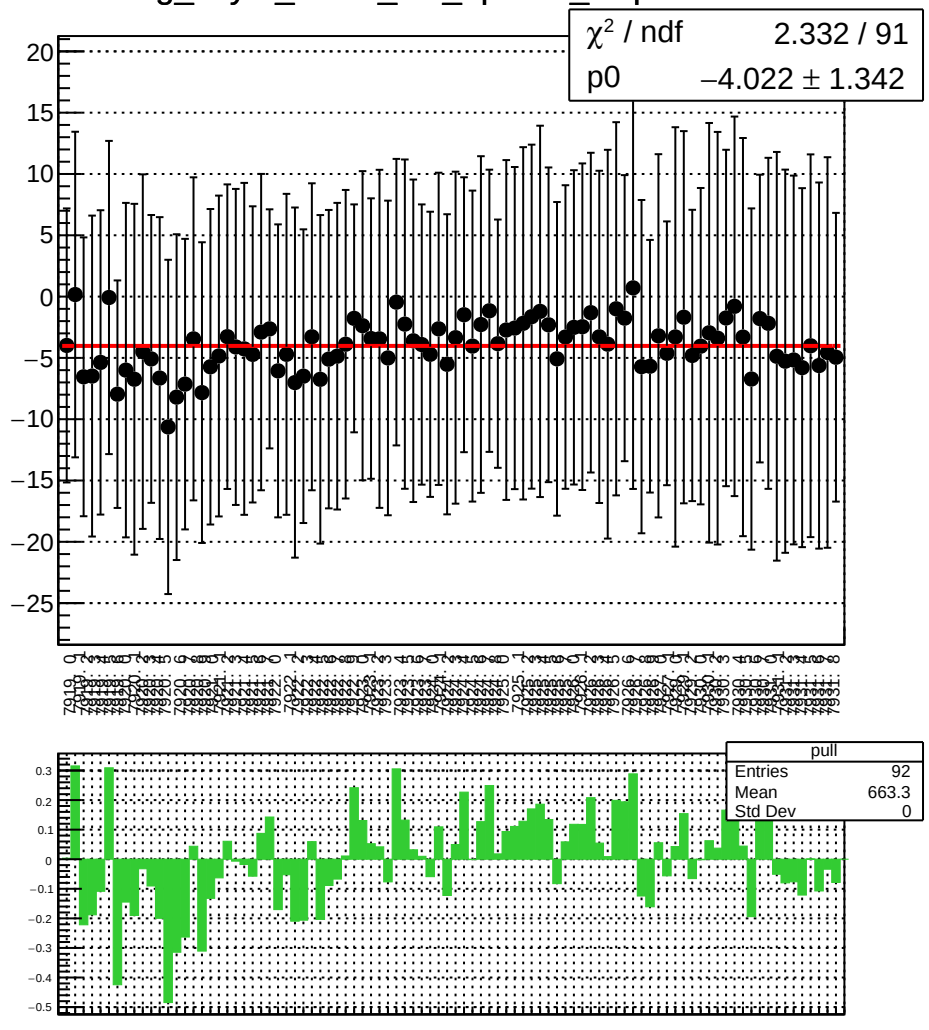

pull1D
Entries 92
Mean 0.002622
Std Dev 0.1355

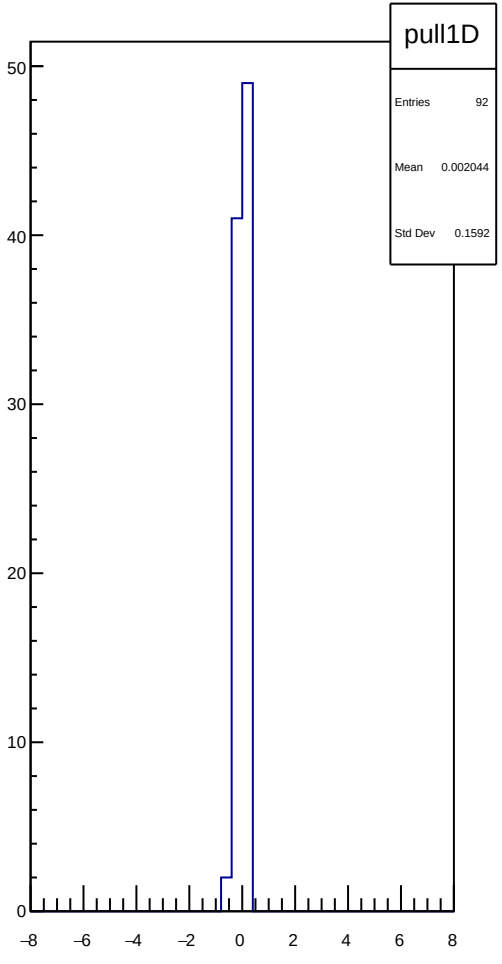

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 1.394 / 91
p0 −100.1 ± 6.727
pull
Entries 92
Mean −601.5
Std Dev 0
pull1D
Entries 92
Mean 0.00278
Std Dev 0.1231

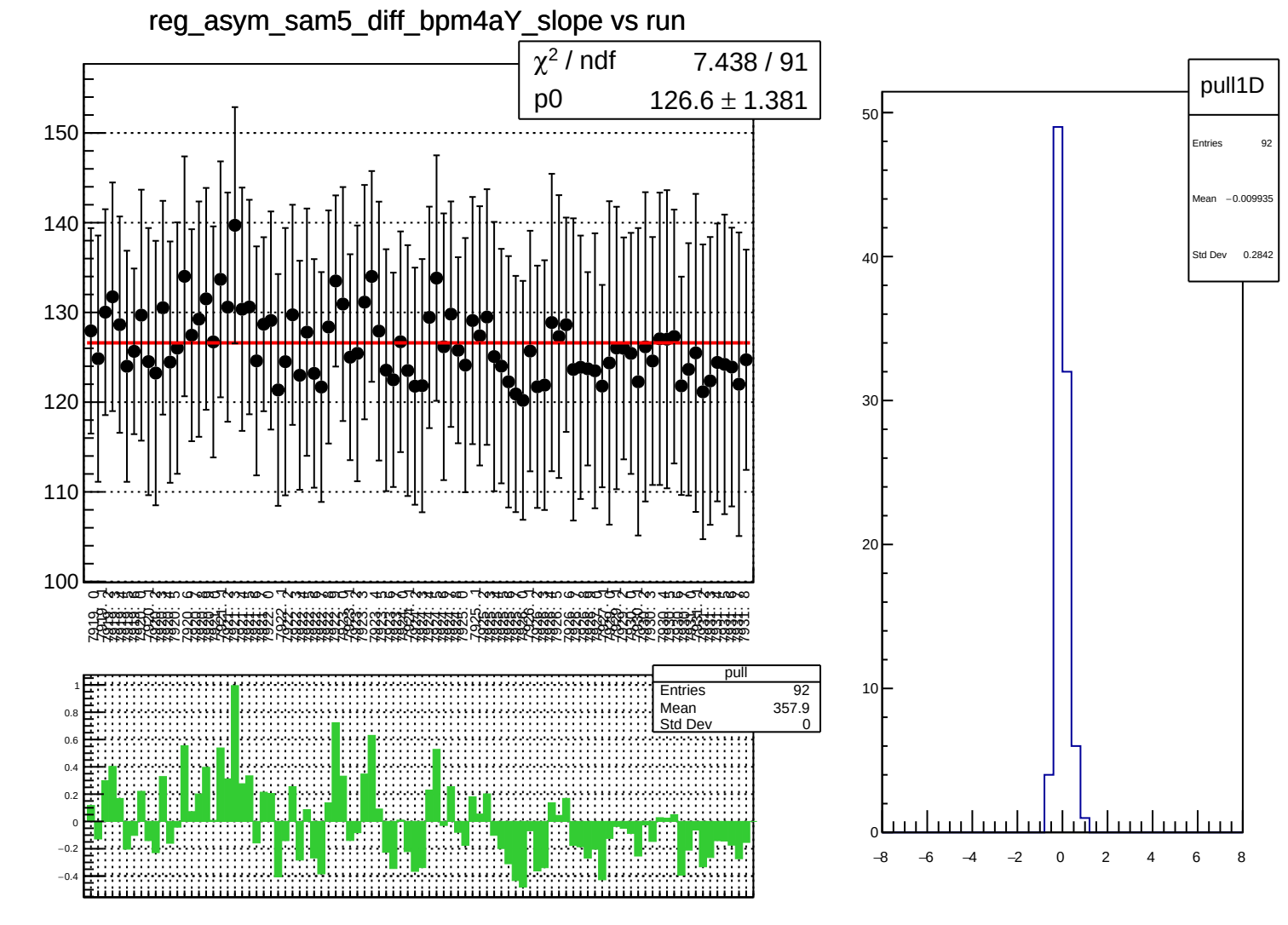

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 1.635 / 91
p0 74.14 ± 8.915
pull
Entries 92
Mean −220.2
Std Dev 0

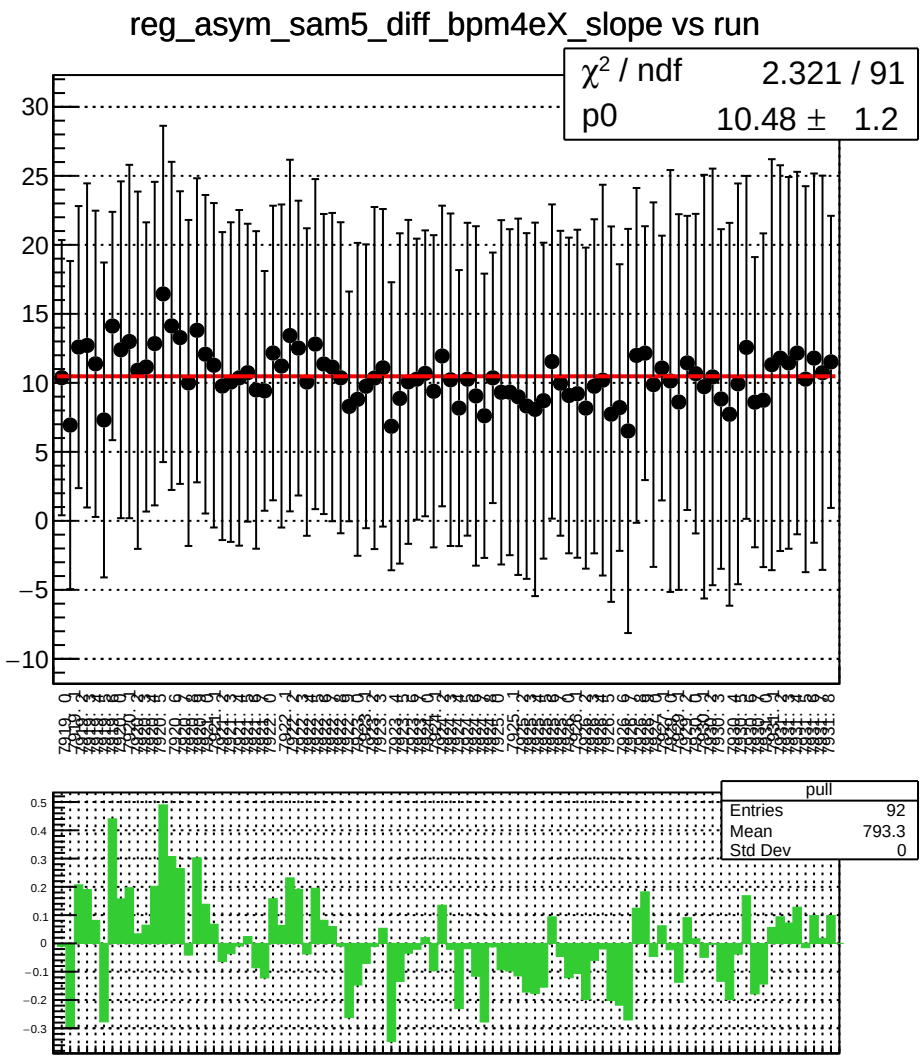

pull1D
Entries 92
Mean −0.002457
Std Dev 0.1333

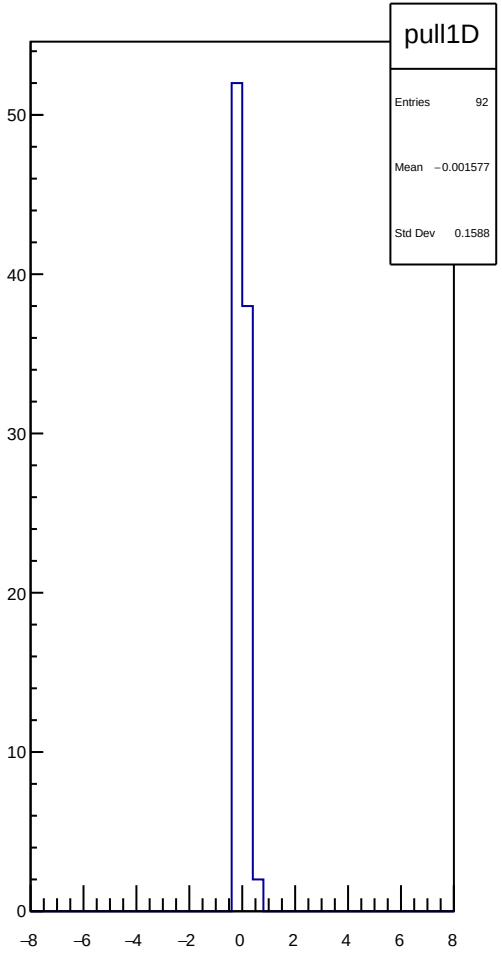

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 1.588 / 91
p0 −3.642 ± 0.2578
pull
Entries 92
Mean −1043
Std Dev 0
pull1D
Entries 92
Mean −0.001148
Std Dev 0.1314

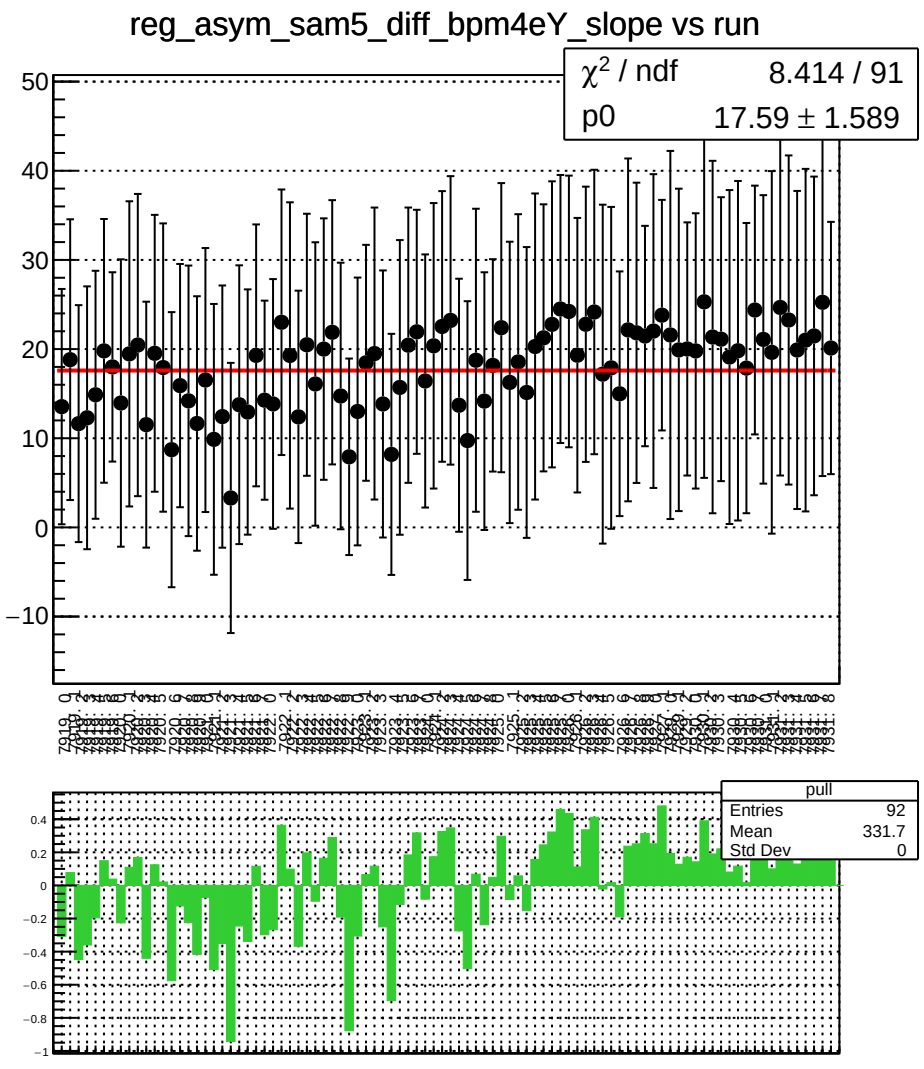

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 2.332 / 91
p0 −4.022 ± 1.342
pull
Entries 92
Mean 663.3
Std Dev 0

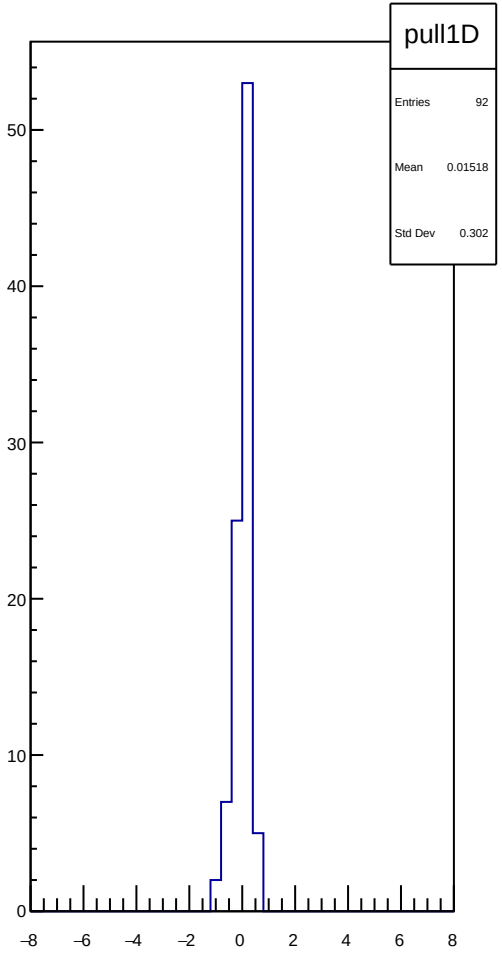

pull1D
Entries 92
Mean 0.002044
Std Dev 0.1592

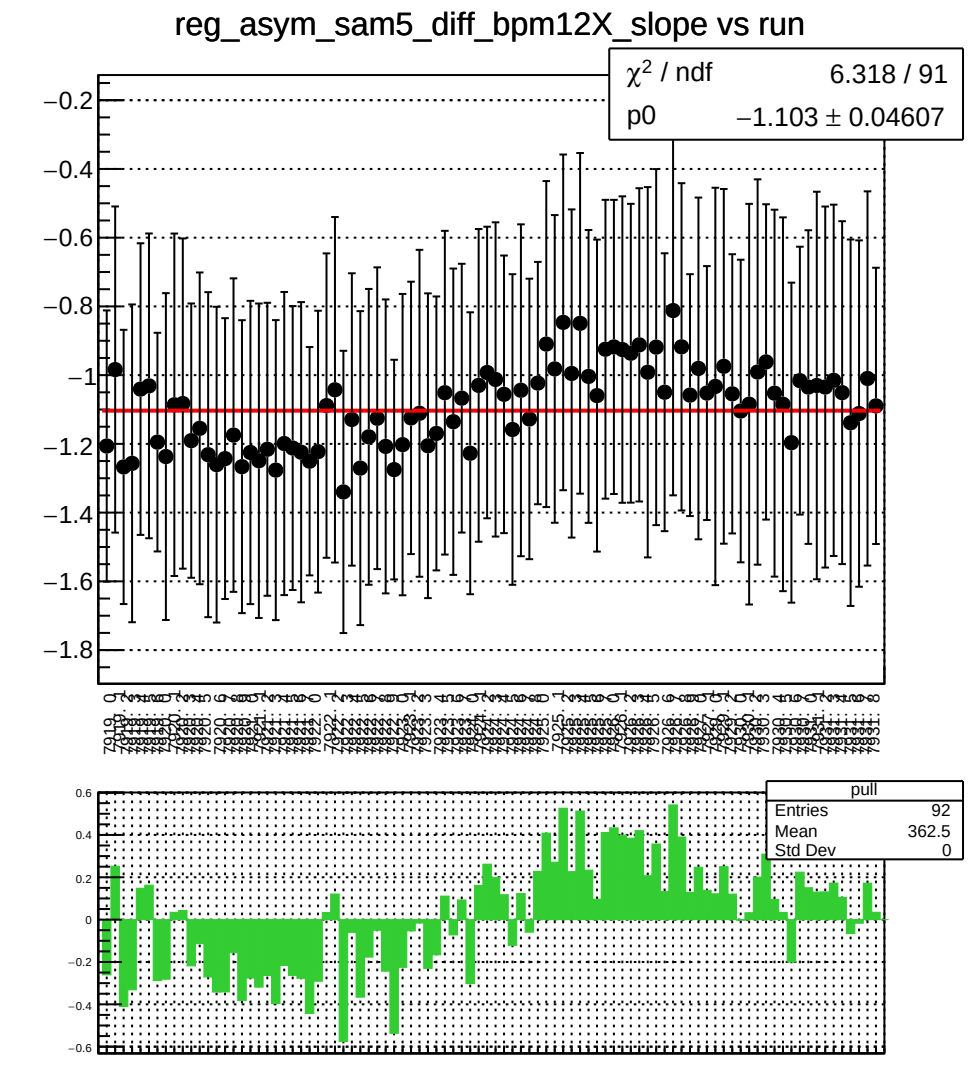

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 7.438 / 91
p0 126.6 ± 1.381
150
140
130
120
110
100
pull
Entries 92
Mean 357.9
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 92
Mean −0.009935
Std Dev 0.2842
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

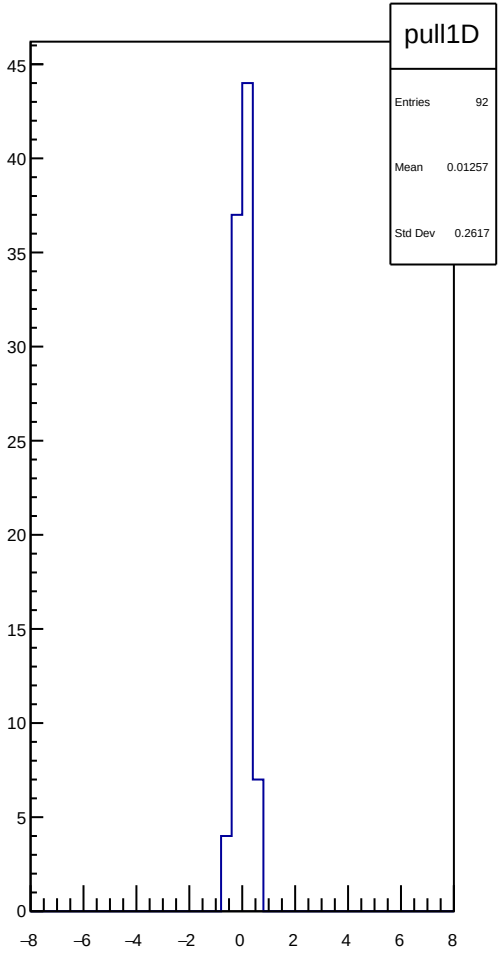

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 2.321 / 91
p0 10.48 ± 1.2
pull
Entries 92
Mean 793.3
Std Dev 0

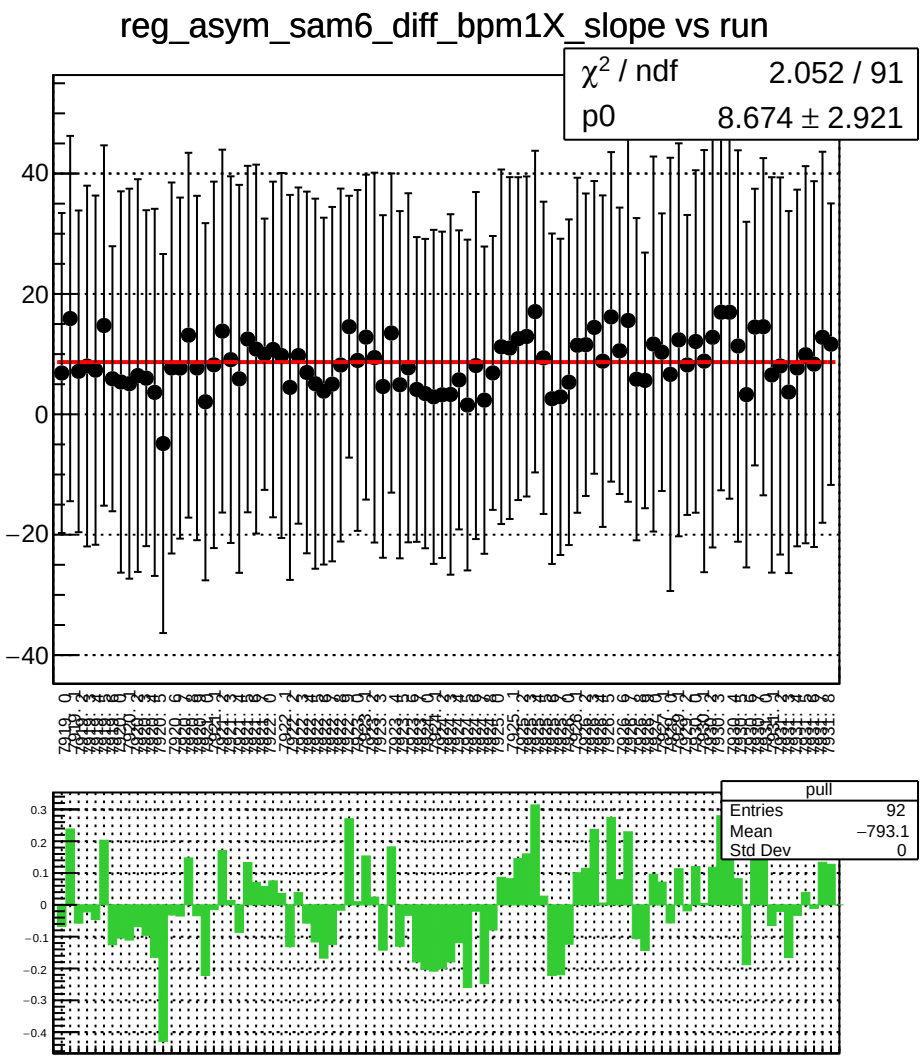

pull1D
Entries 92
Mean −0.001577
Std Dev 0.1588

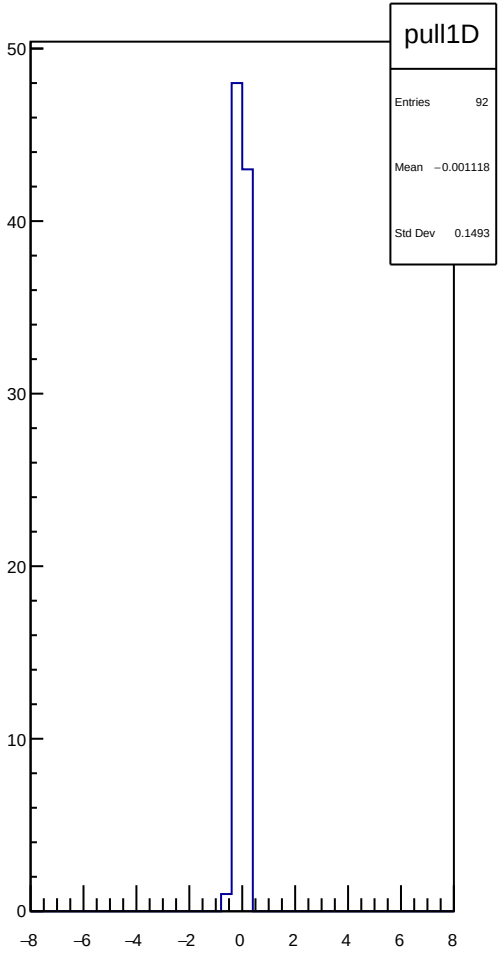

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 8.414 / 91
p0 17.59 ± 1.589
pull
Entries 92
Mean 331.7
Std Dev 0

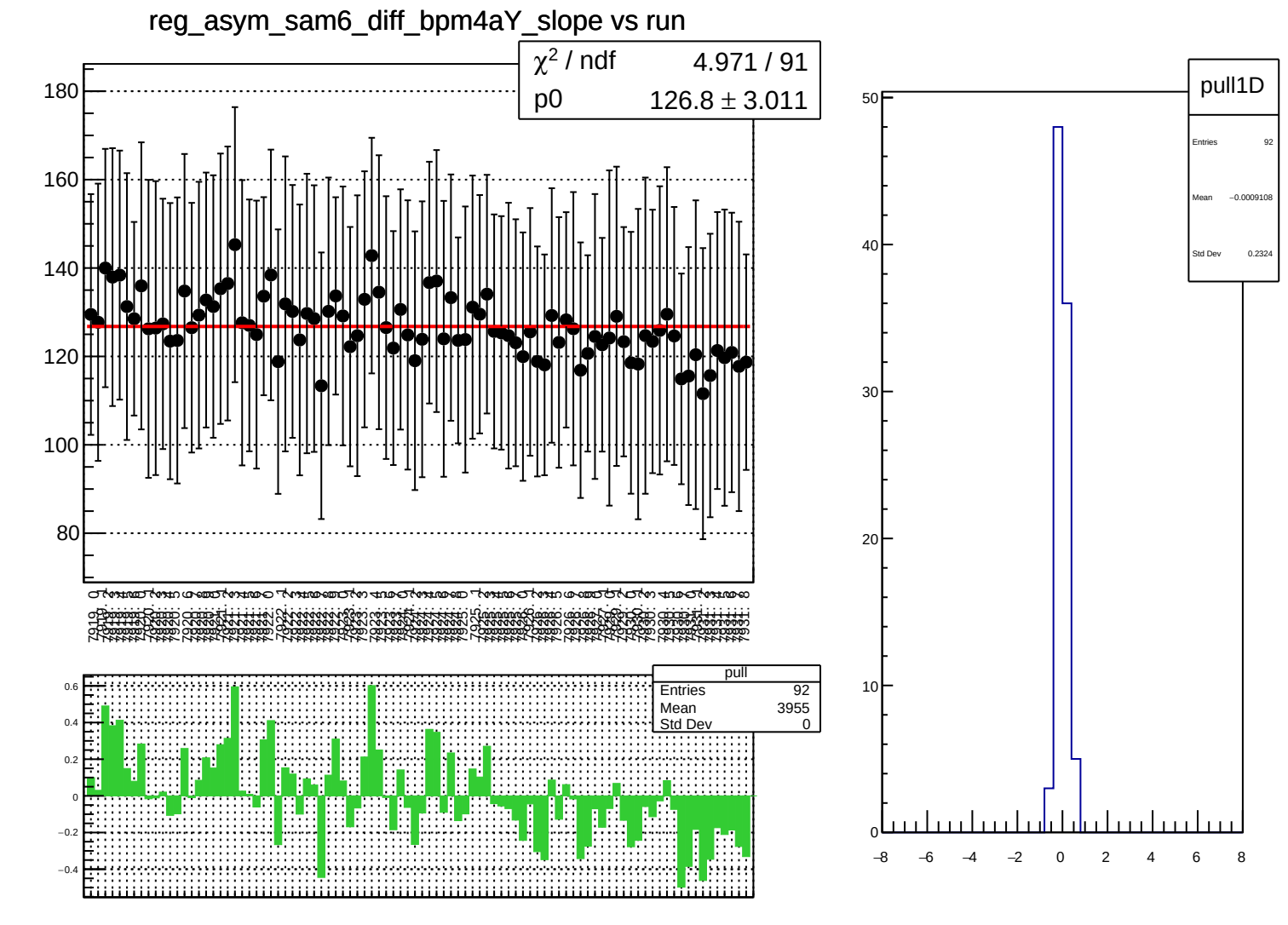

pull1D
Entries 92
Mean 0.01518
Std Dev 0.302

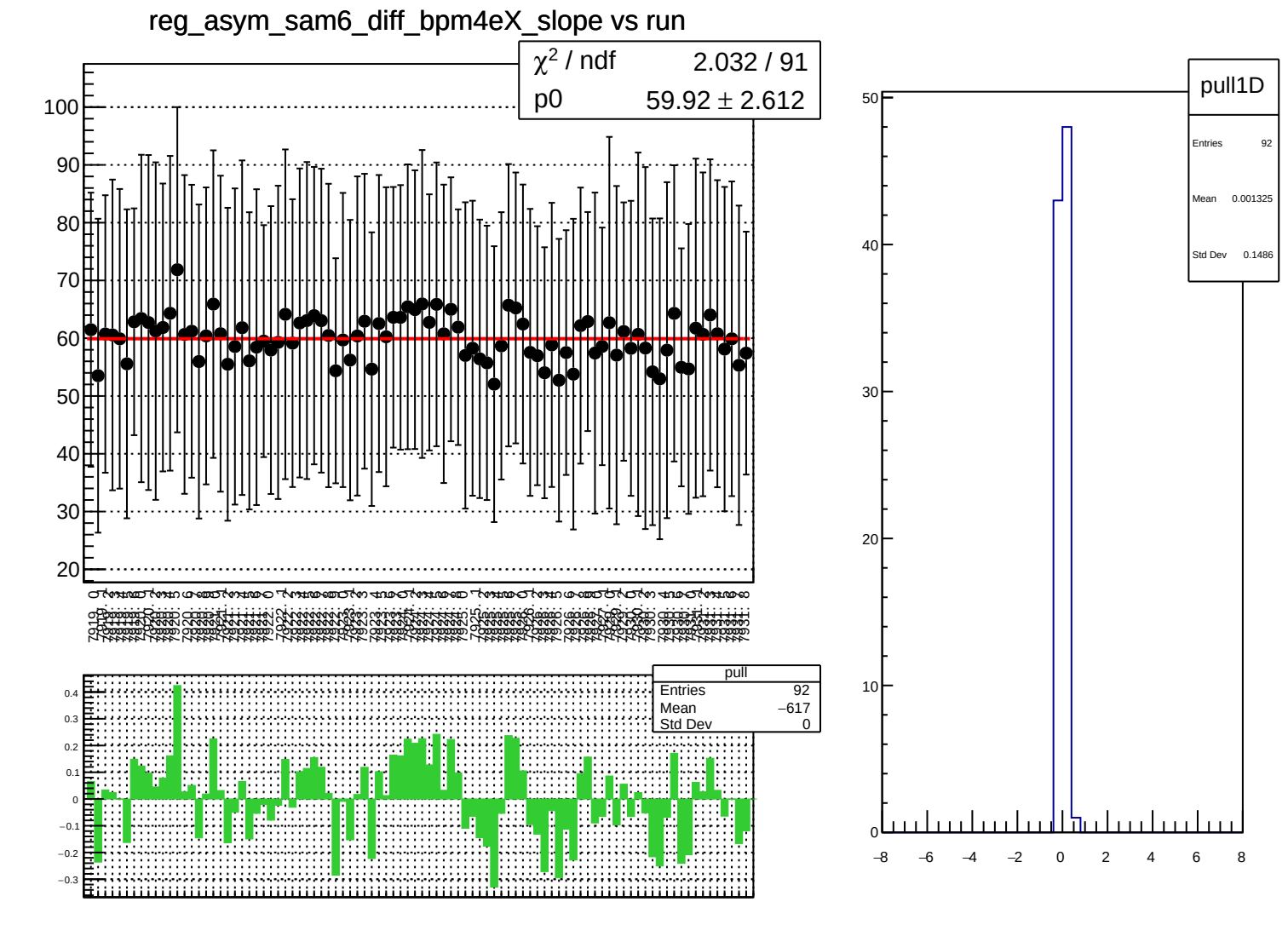

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 6.318 / 91
p0 −1.103 ± 0.04607
pull
Entries 92
Mean 362.5
Std Dev 0

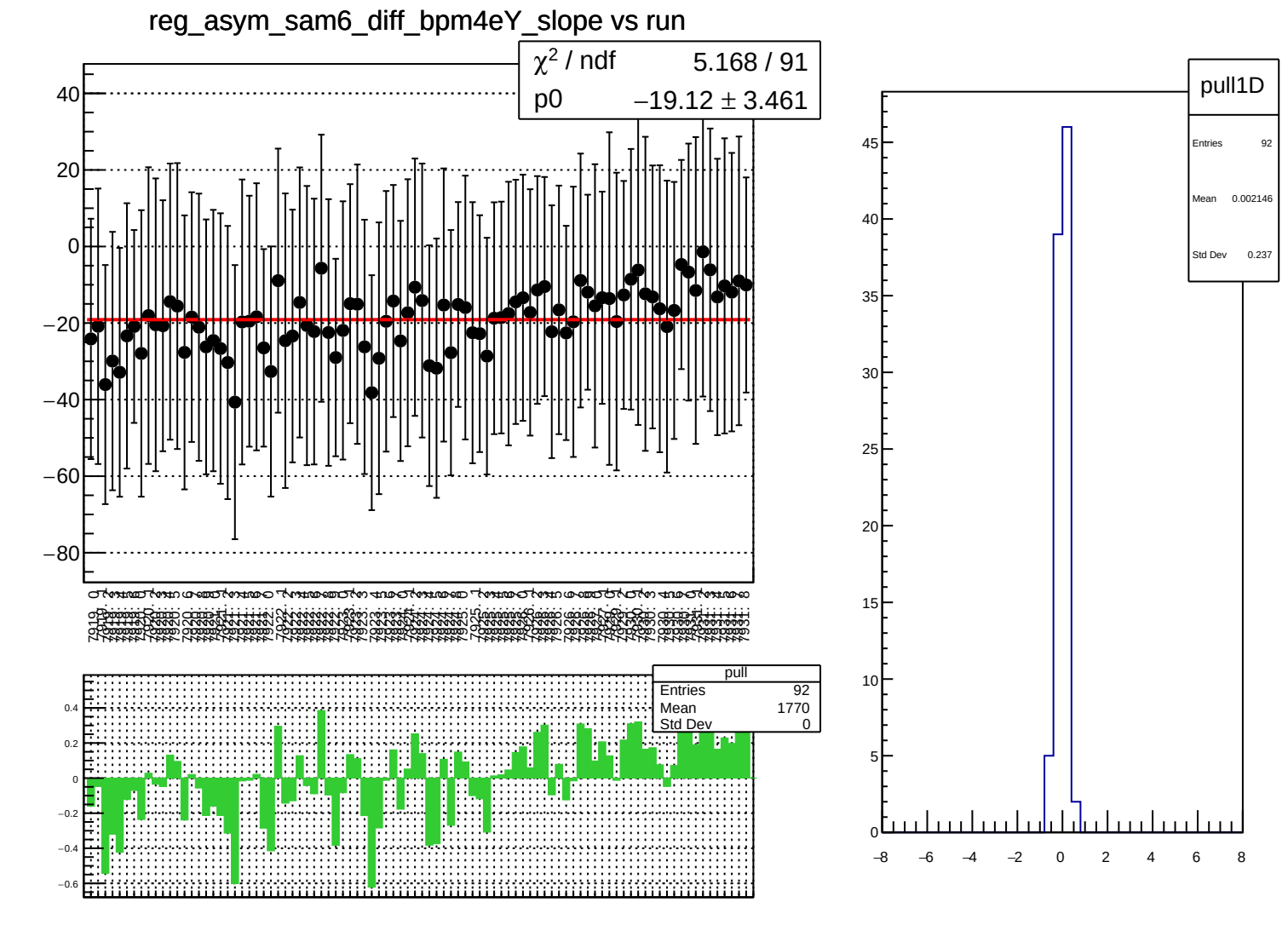

pull1D
Entries 92
Mean 0.01257
Std Dev 0.2617

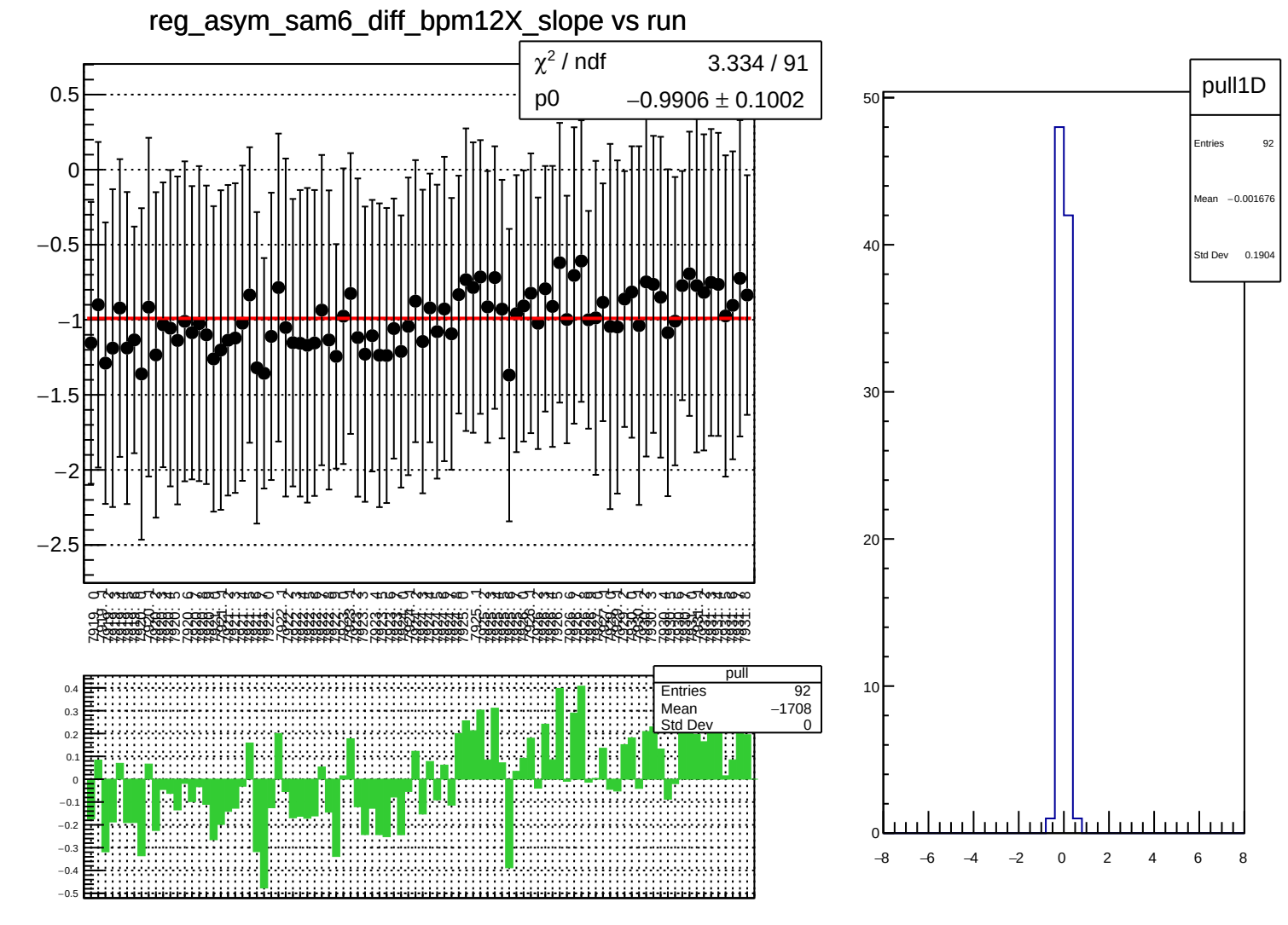

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 2.052 / 91
p0 8.674 ± 2.921
pull
Entries 92
Mean −793.1
Std Dev 0

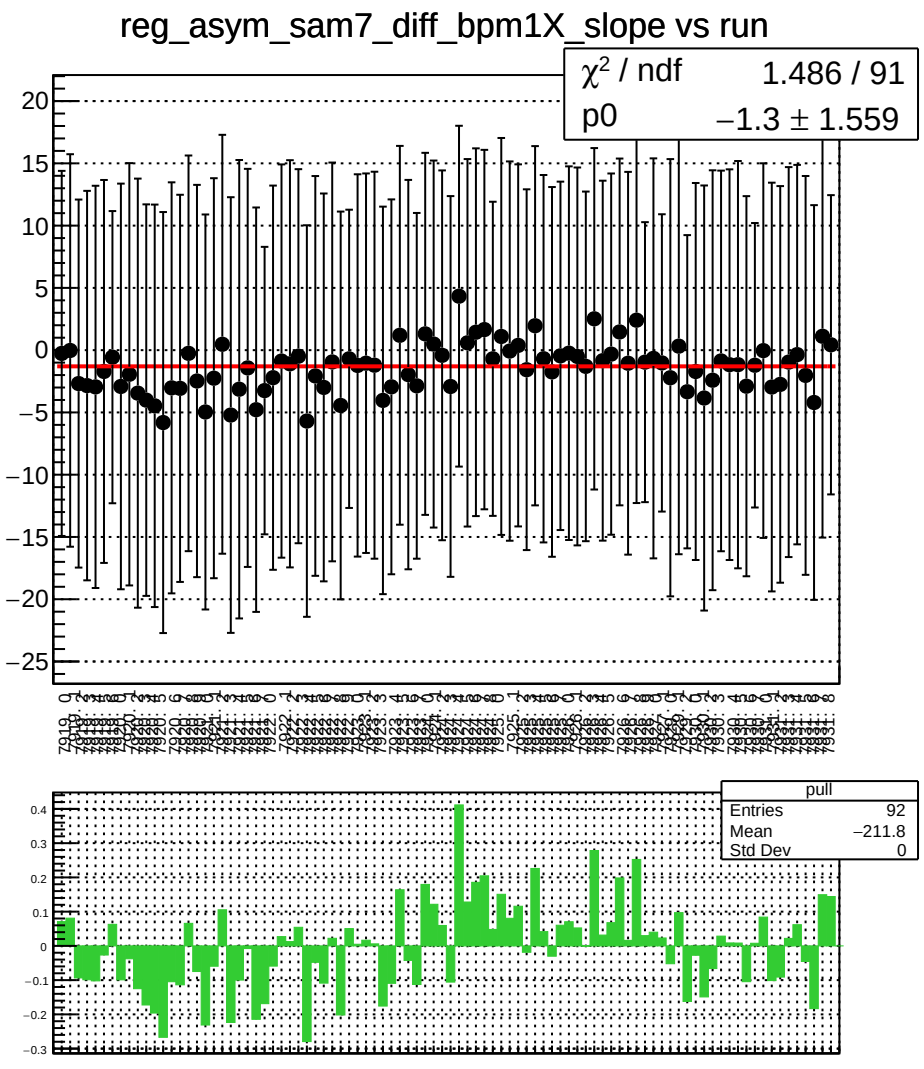

pull1D
Entries 92
Mean −0.001118
Std Dev 0.1493

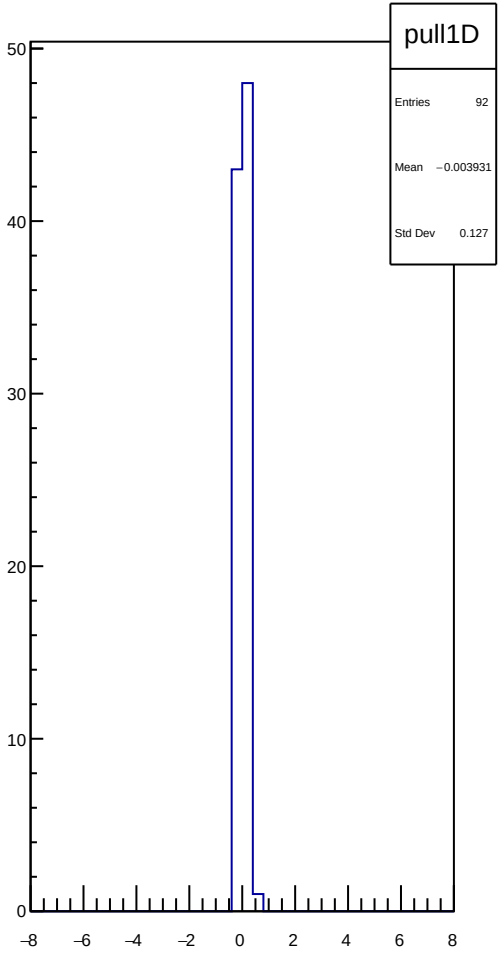

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 4.971 / 91
p0 126.8 ± 3.011
pull
Entries 92
Mean 3955
Std Dev 0
pull1D
Entries 92
Mean −0.0009108
Std Dev 0.2324

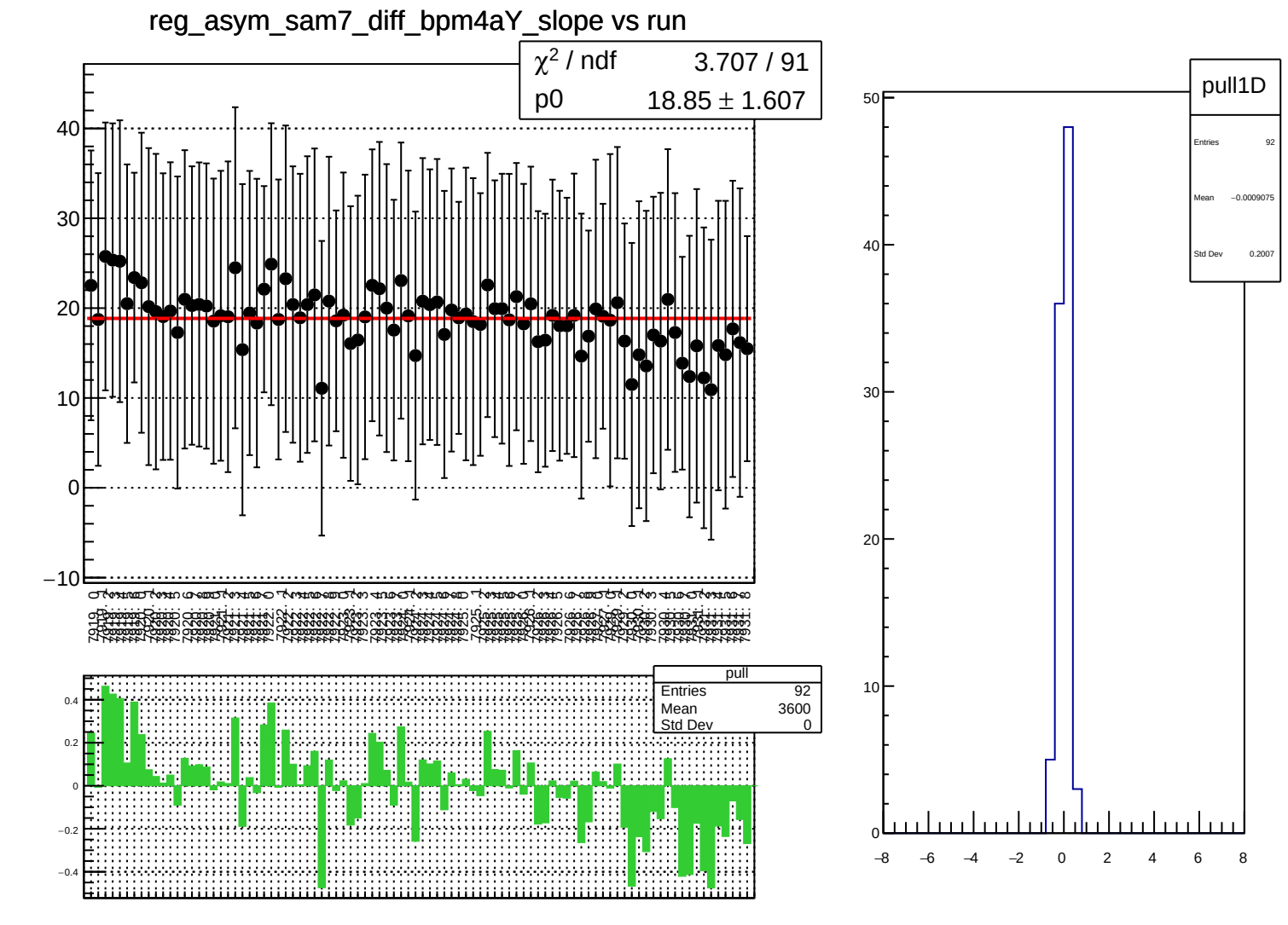

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 2.032 / 91
p0 59.92 ± 2.612
pull
Entries 92
Mean −617
Std Dev 0
pull1D
Entries 92
Mean 0.001325
Std Dev 0.1486

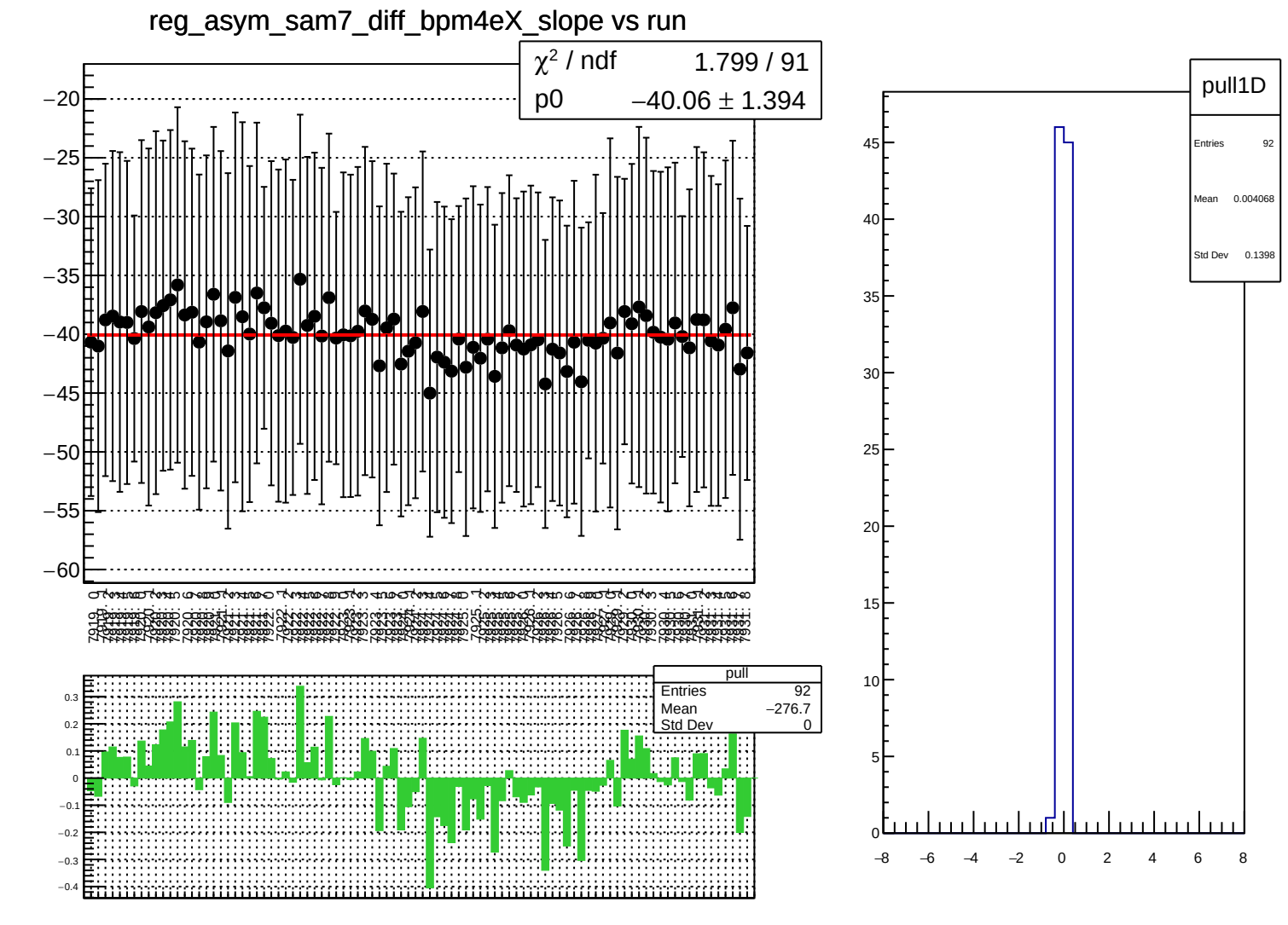

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 5.168 / 91
p0 −19.12 ± 3.461
pull
Entries 92
Mean 1770
Std Dev 0
pull1D
Entries 92
Mean 0.002146
Std Dev 0.237

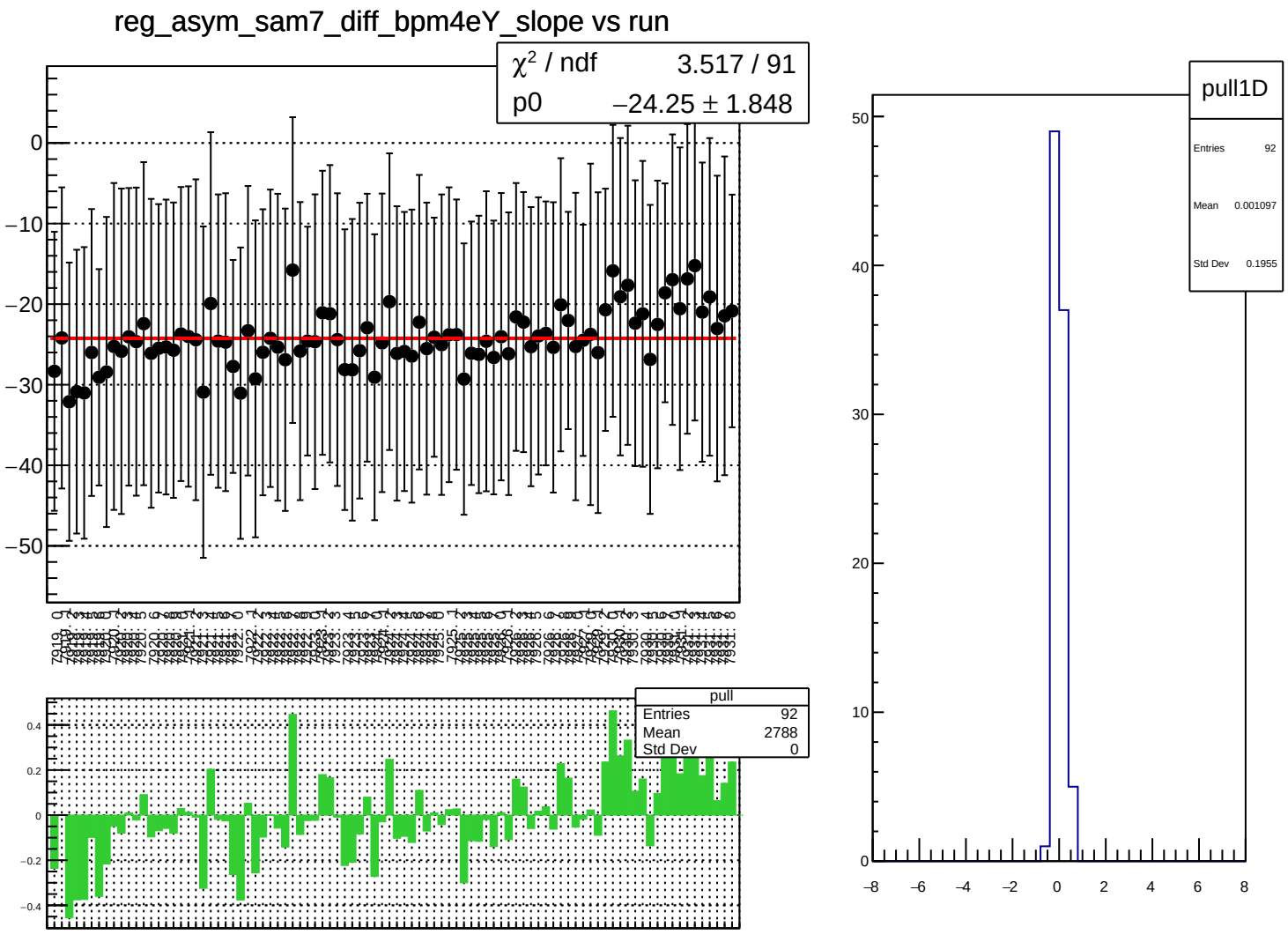

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 3.334 / 91
p0 −0.9906 ± 0.1002
pull
Entries 92
Mean −1708
Std Dev 0
pull1D
Entries 92
Mean −0.001676
Std Dev 0.1904

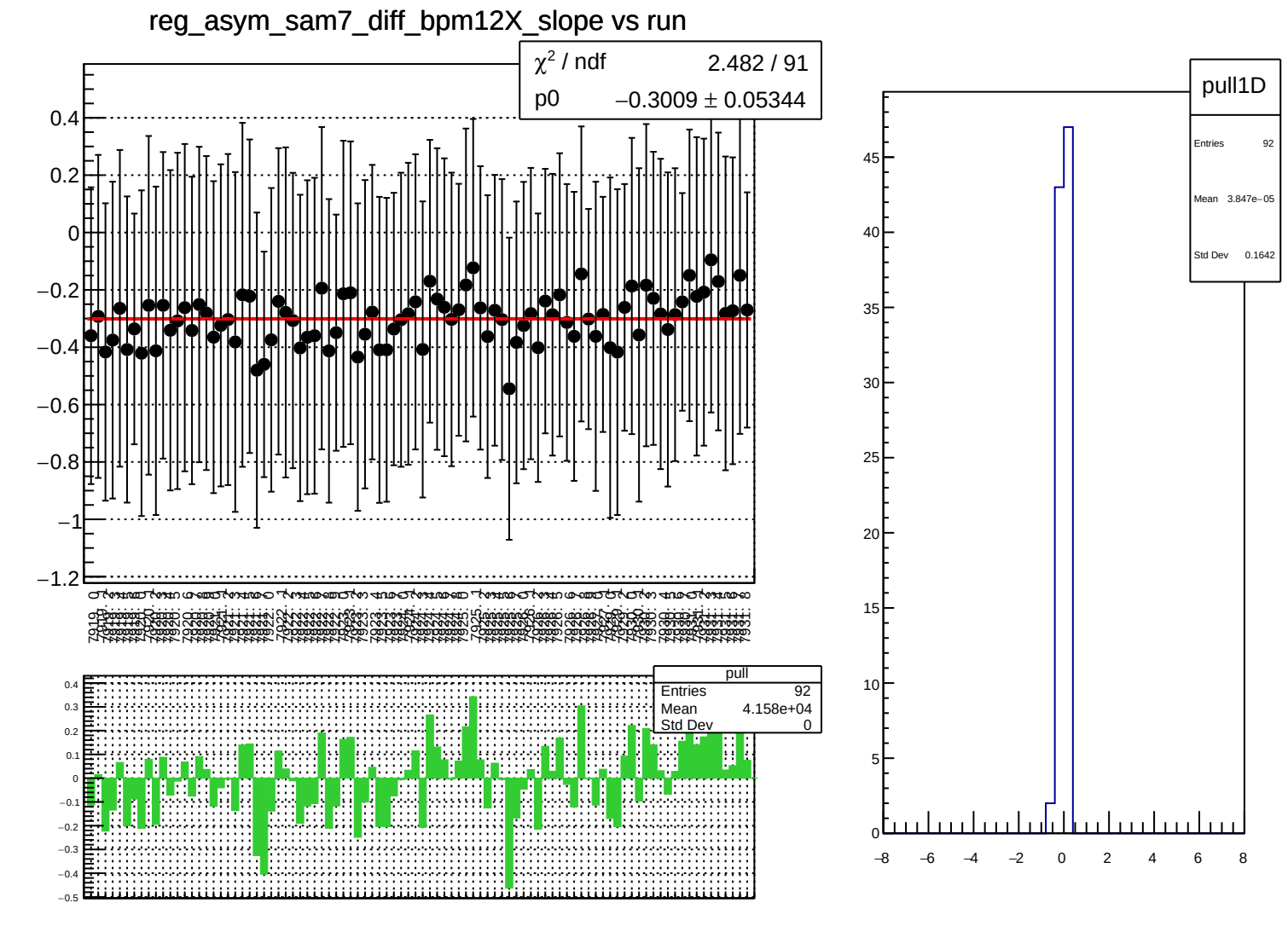

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 1.486 / 91
p0 −1.3 ± 1.559
pull
Entries 92
Mean −211.8
Std Dev 0

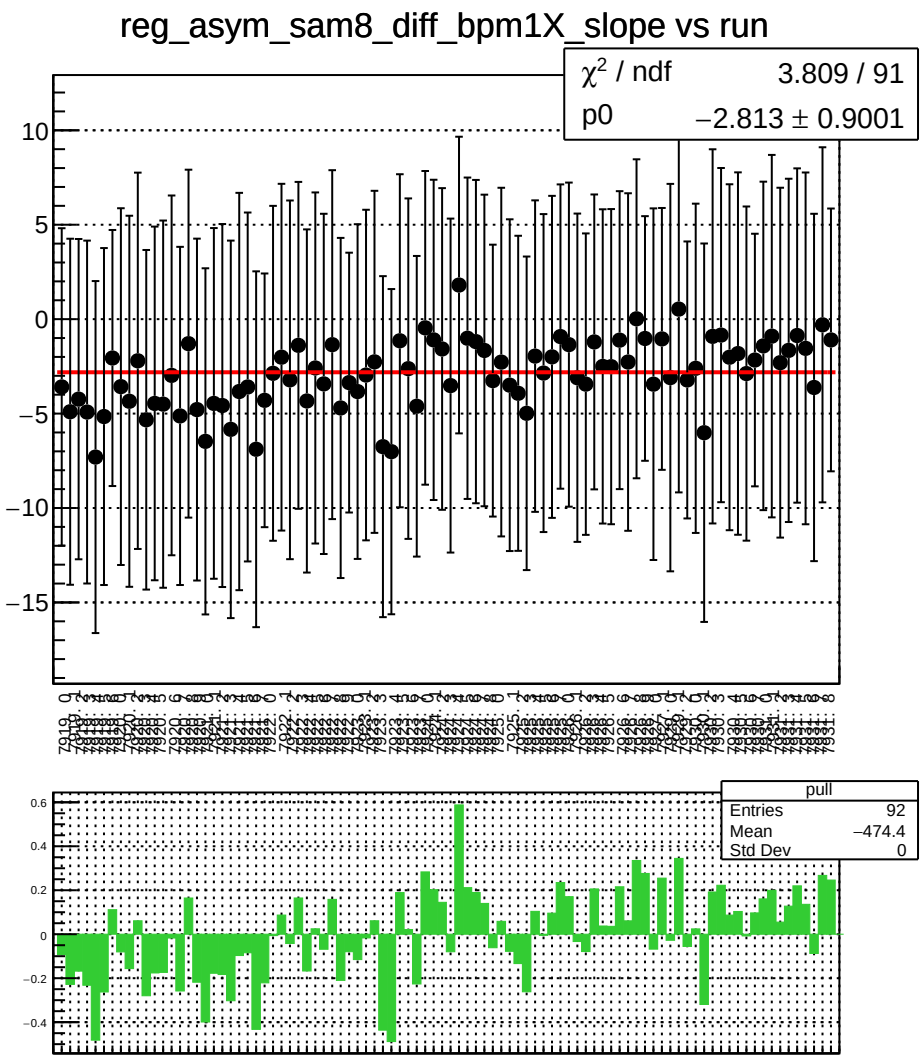

pull1D
Entries 92
Mean −0.003931
Std Dev 0.127

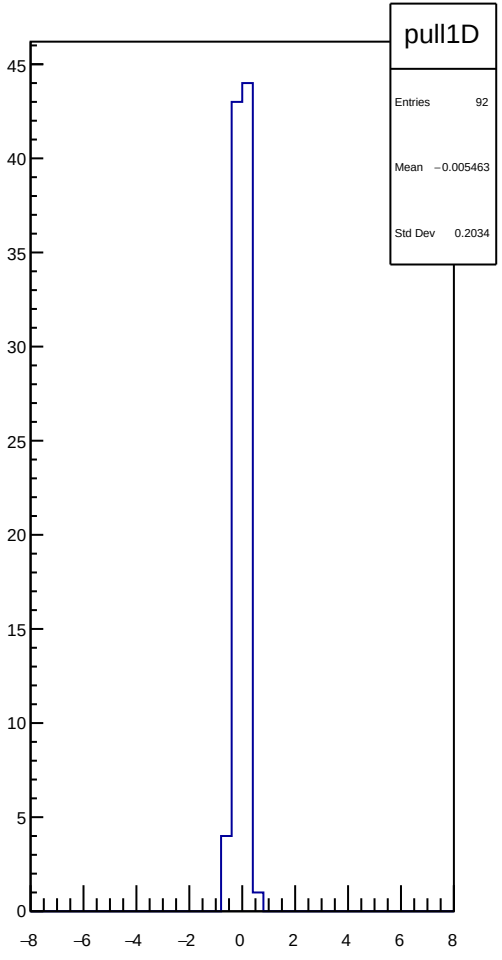

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 3.707 / 91
p0 18.85 ± 1.607
pull
Entries 92
Mean 3600
Std Dev 0
pull1D
Entries 92
Mean −0.0009075
Std Dev 0.2007

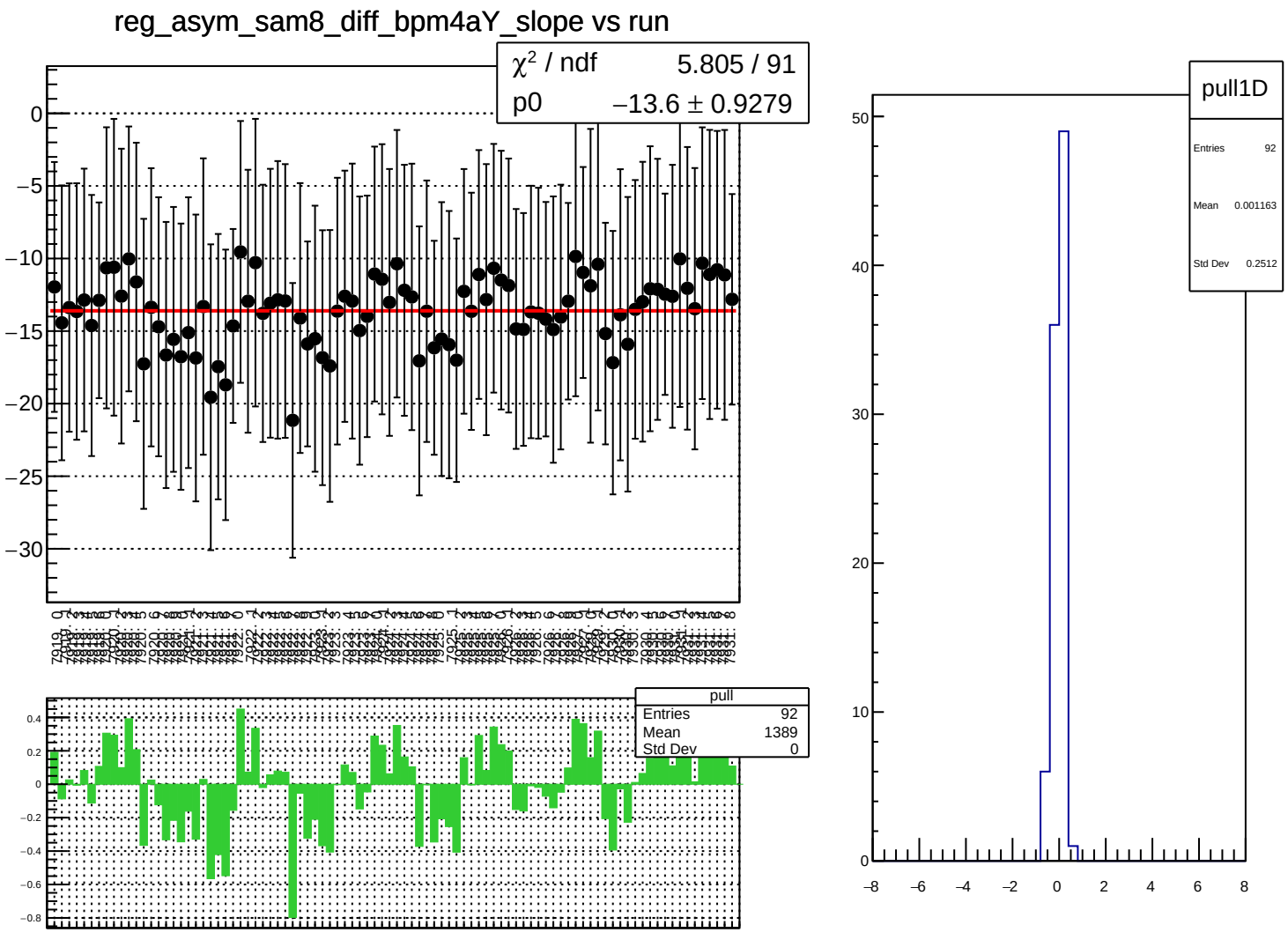

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 1.799 / 91
p0 −40.06 ± 1.394
pull
Entries 92
Mean −276.7
Std Dev 0
pull1D
Entries 92
Mean 0.004068
Std Dev 0.1398

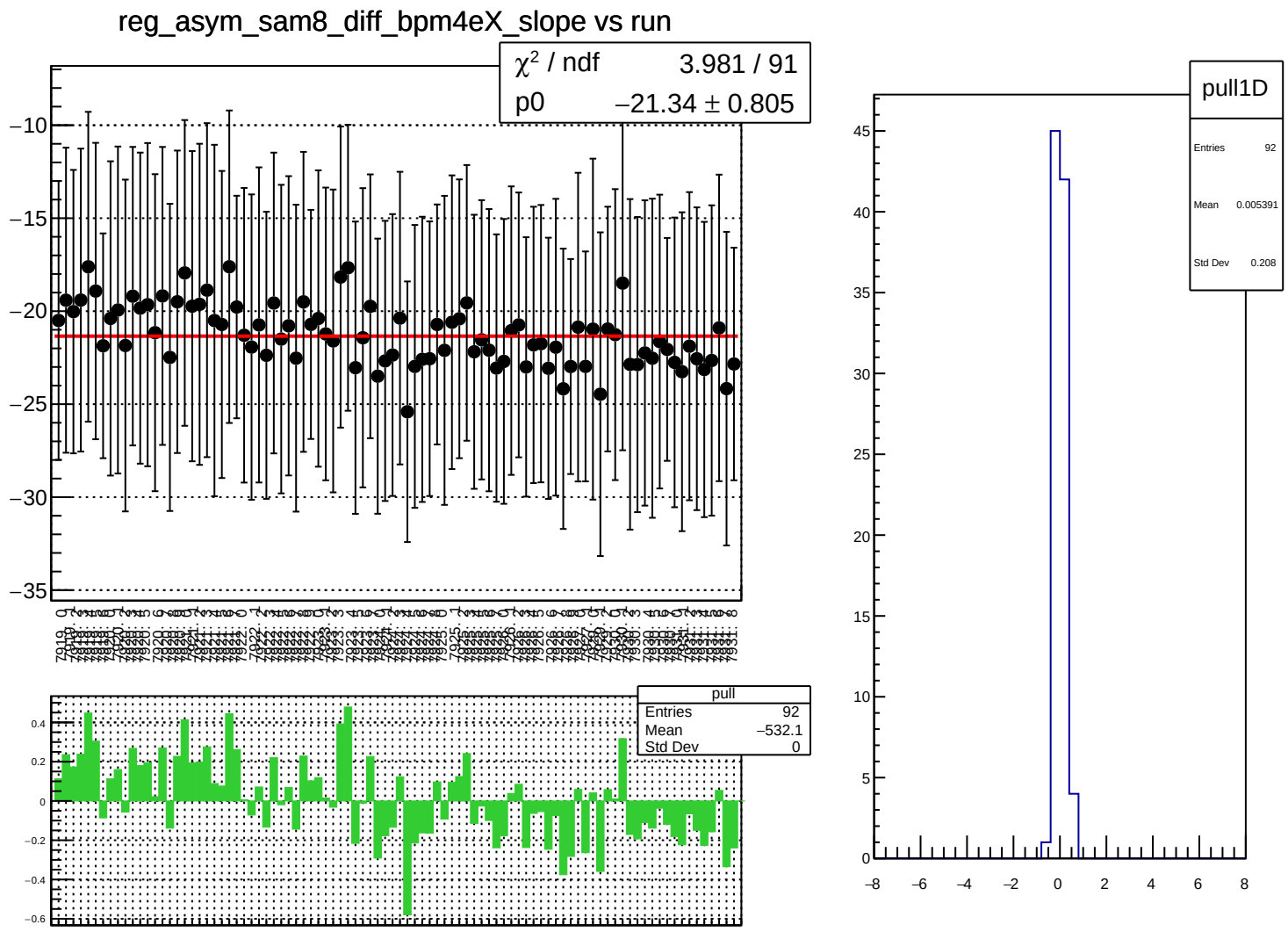

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 3.517 / 91
p0 −24.25 ± 1.848
0
−10
−20
−30
−40
−50
pull
Entries 92
Mean 2788
Std Dev 0
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 92
Mean 0.001097
Std Dev 0.1955
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

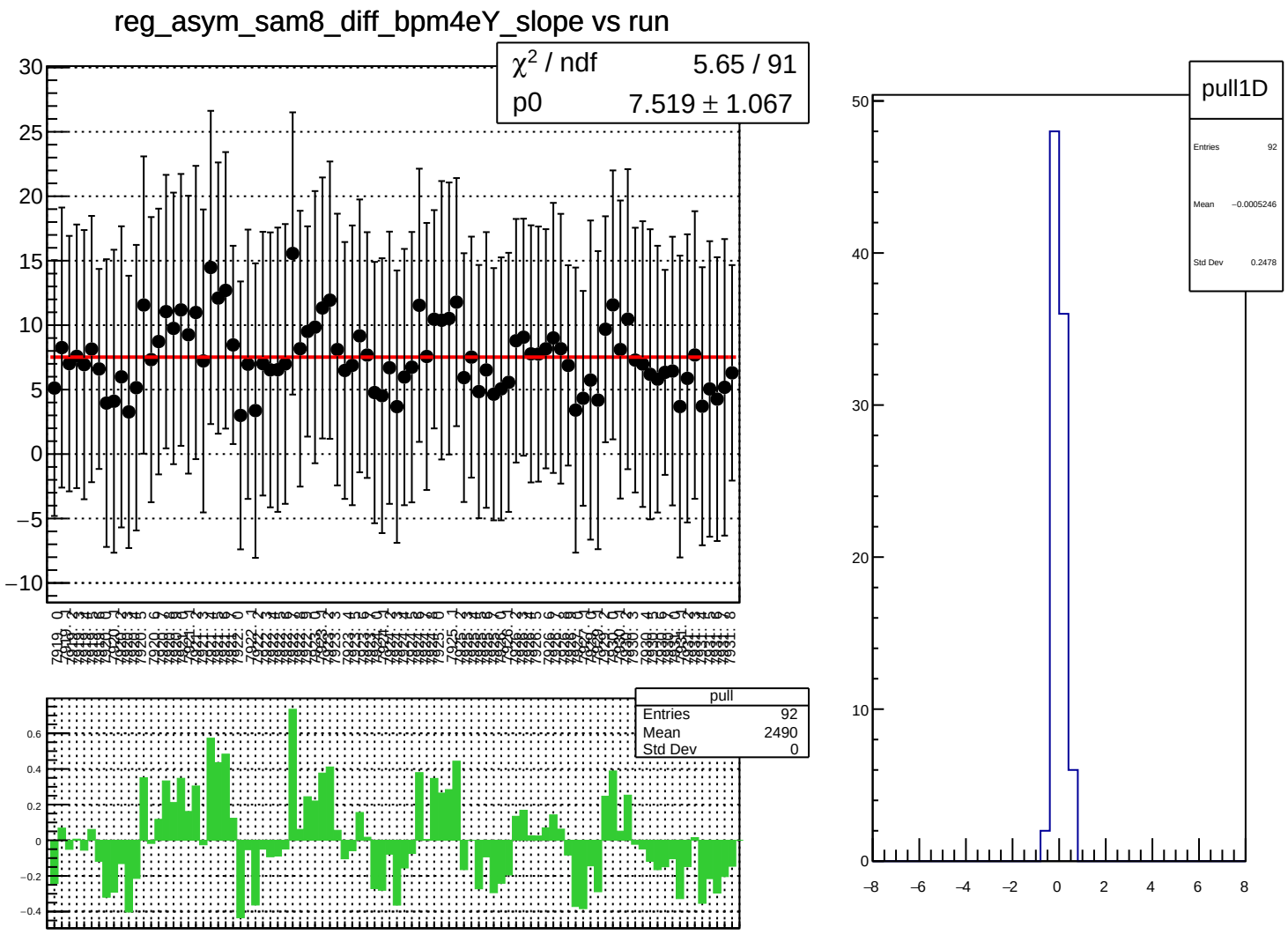

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 2.482 / 91
p0 −0.3009 ± 0.05344
pull
Entries 92
Mean 4.158e+04
Std Dev 0
pull1D
Entries 92
Mean 3.847e−05
Std Dev 0.1642

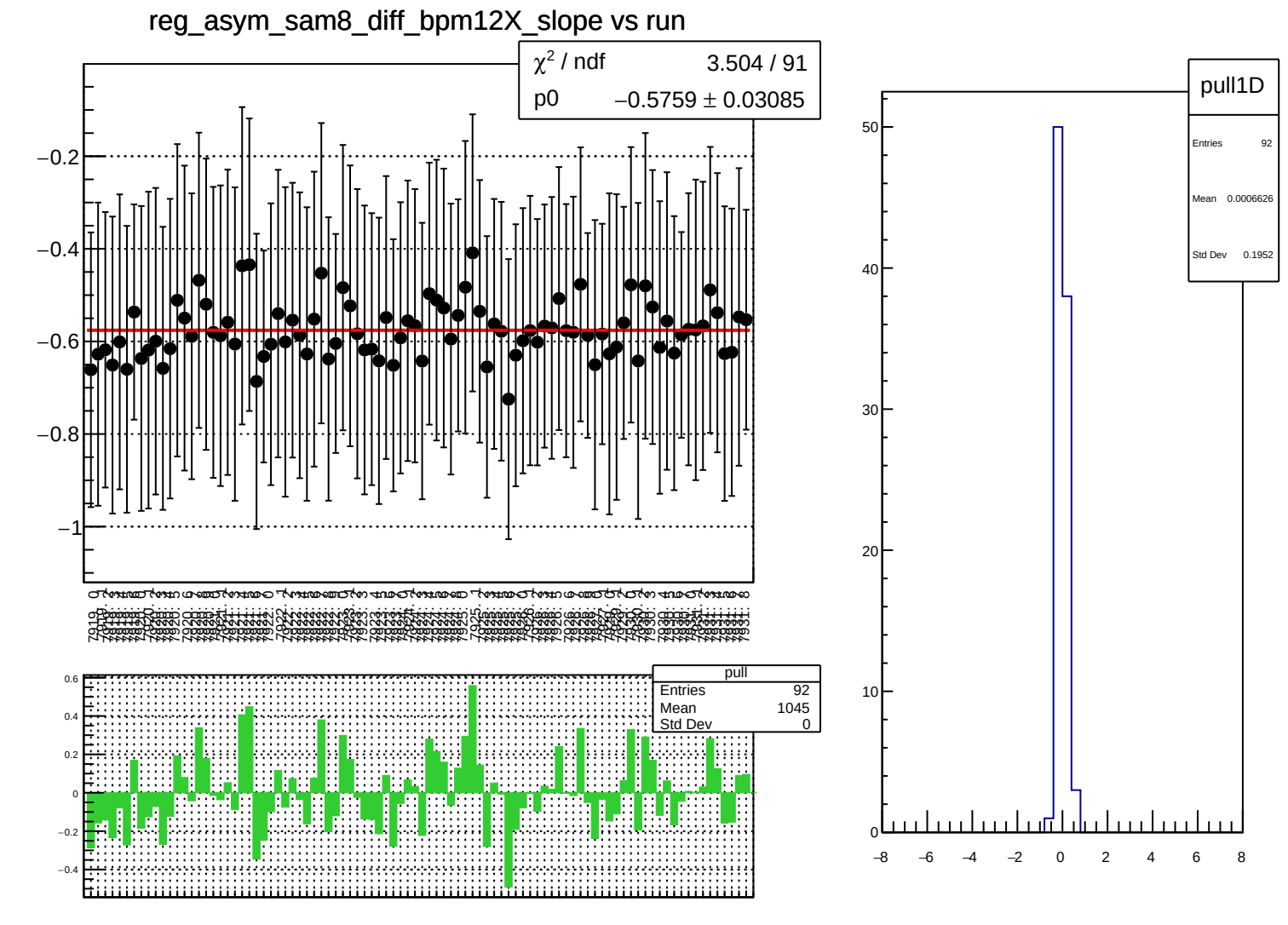

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 3.809 / 91
p0 −2.813 ± 0.9001
pull
Entries 92
Mean −474.4
Std Dev 0

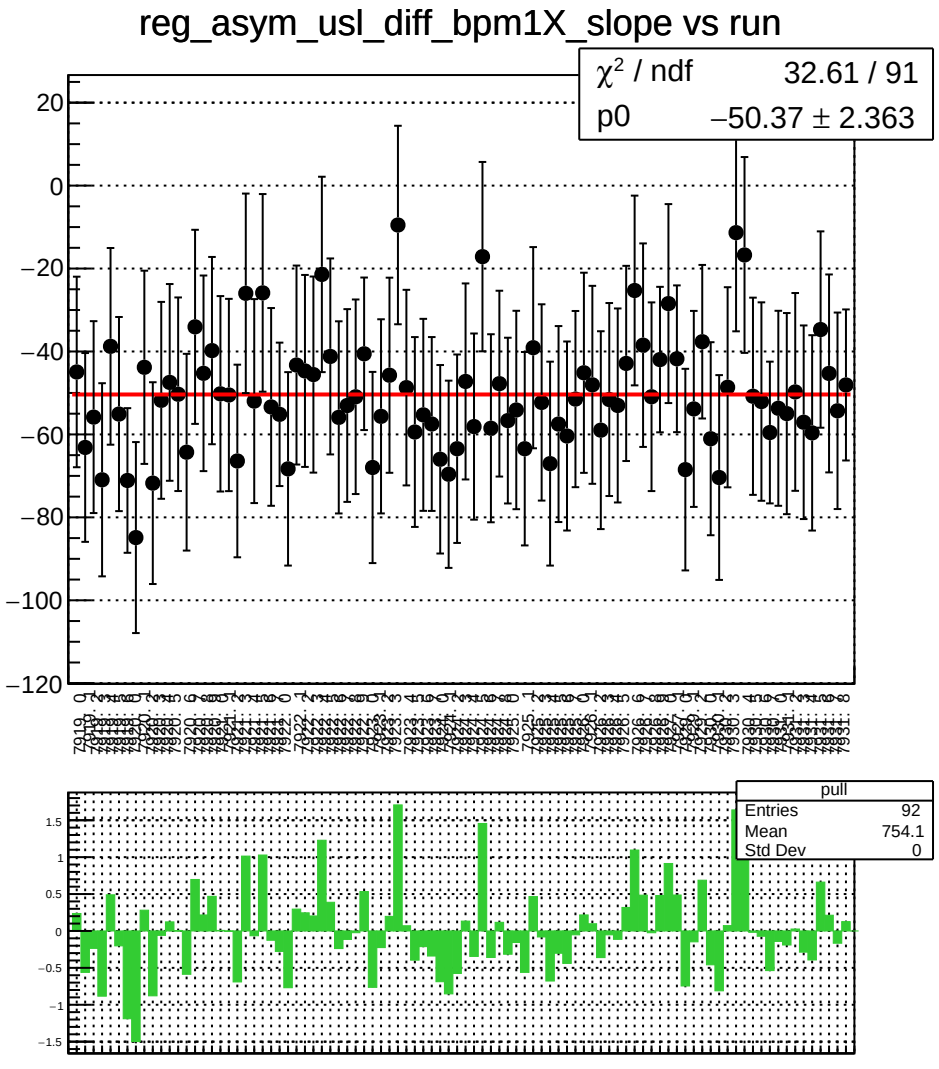

pull1D
Entries 92
Mean −0.005463
Std Dev 0.2034

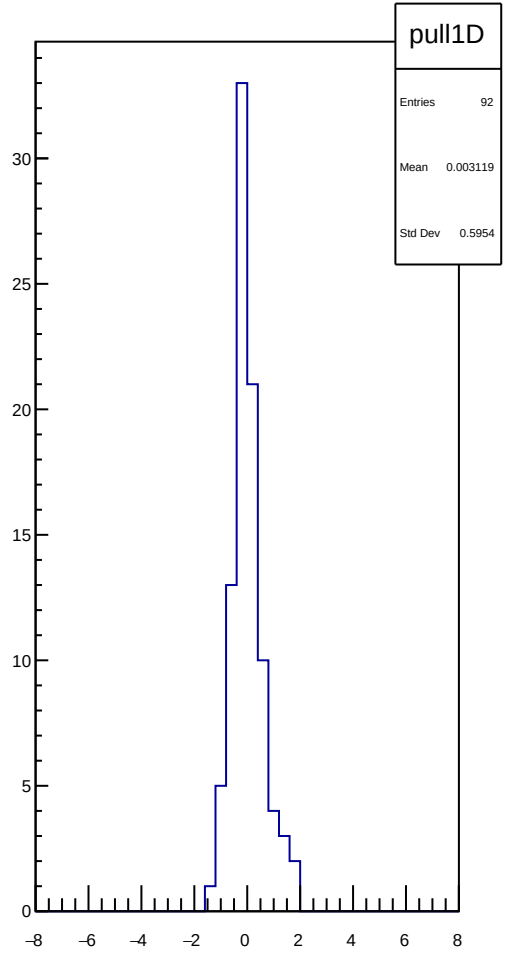

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 5.805 / 91
p0 −13.6 ± 0.9279
pull
Entries 92
Mean 1389
Std Dev 0
pull1D
Entries 92
Mean 0.001163
Std Dev 0.2512

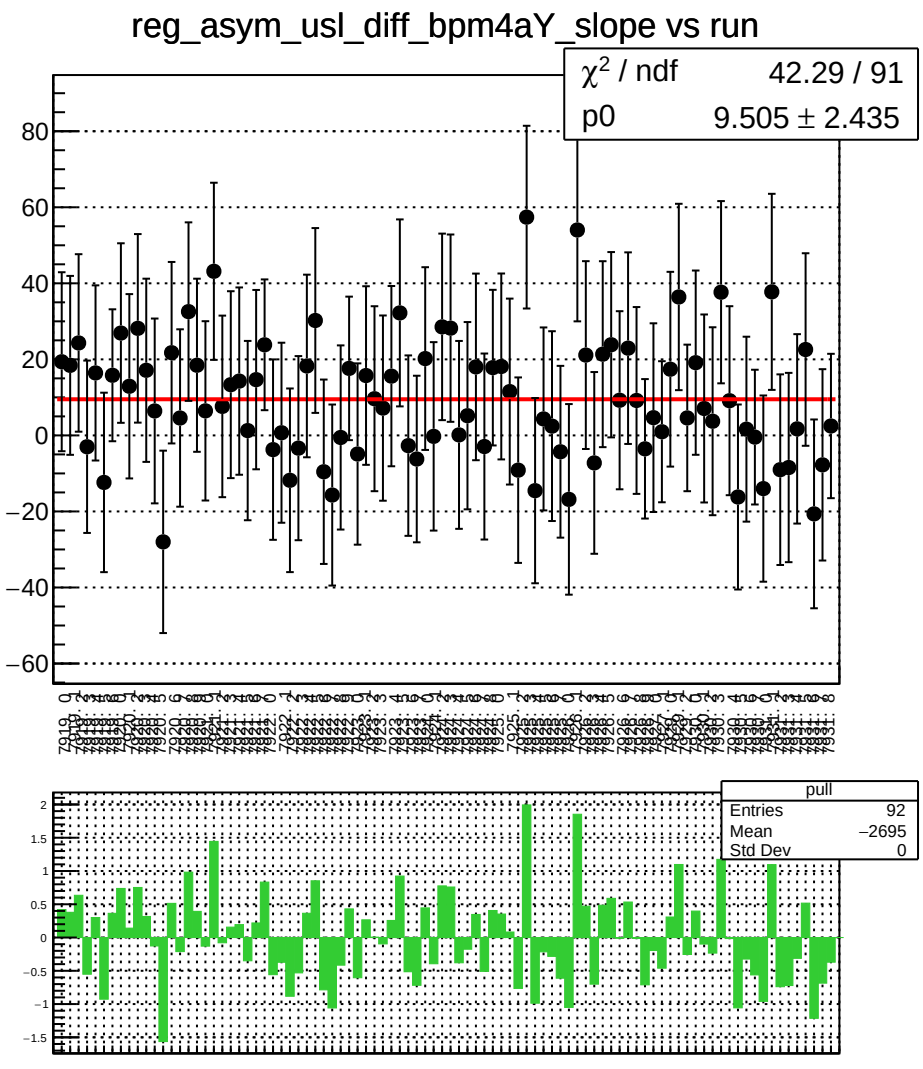

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 3.981 / 91
p0 −21.34 ± 0.805
pull
Entries 92
Mean −532.1
Std Dev 0
pull1D
Entries 92
Mean 0.005391
Std Dev 0.208

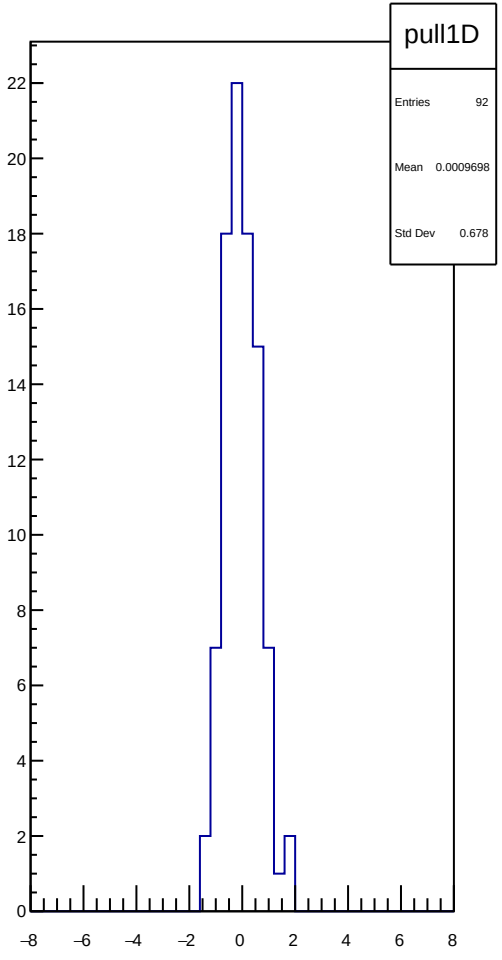

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 5.65 / 91
p0 7.519 ± 1.067
pull
Entries 92
Mean 2490
Std Dev 0
pull1D
Entries 92
Mean −0.0005246
Std Dev 0.2478

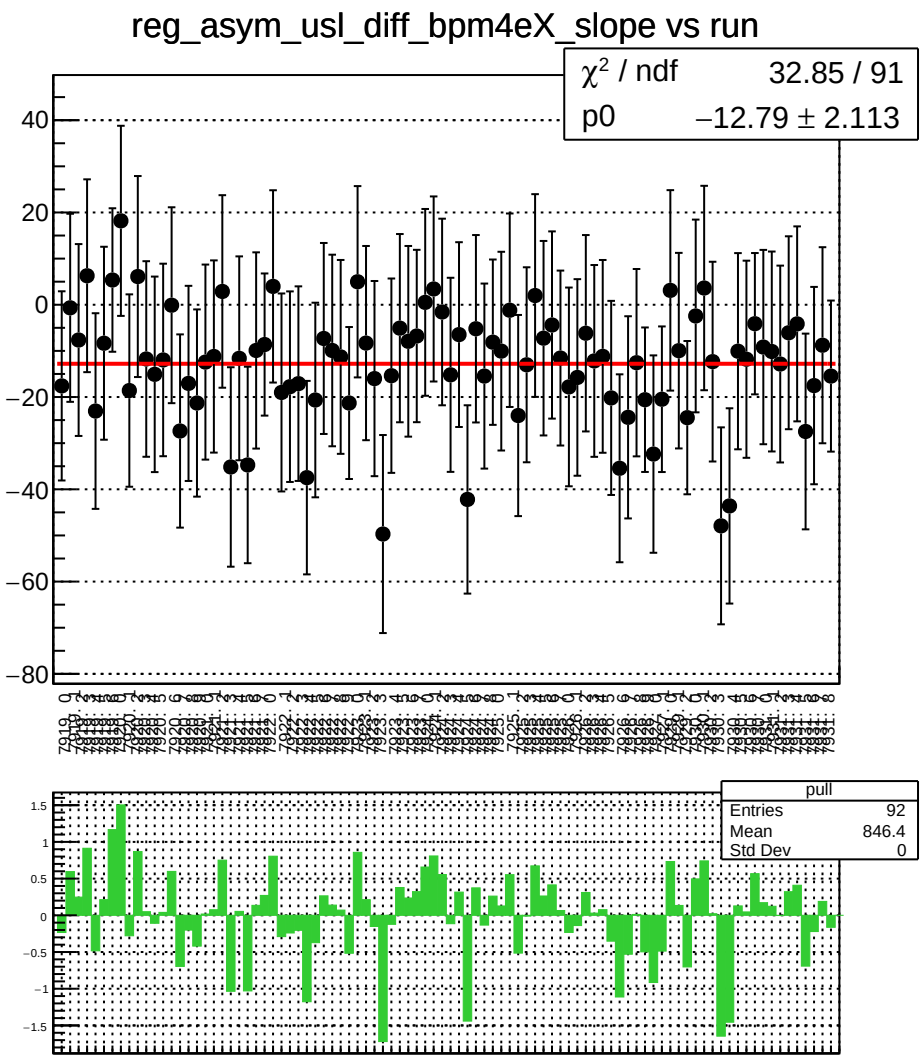

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 3.504 / 91
p0 −0.5759 ± 0.03085
pull
Entries 92
Mean 1045
Std Dev 0
pull1D
Entries 92
Mean 0.0006626
Std Dev 0.1952

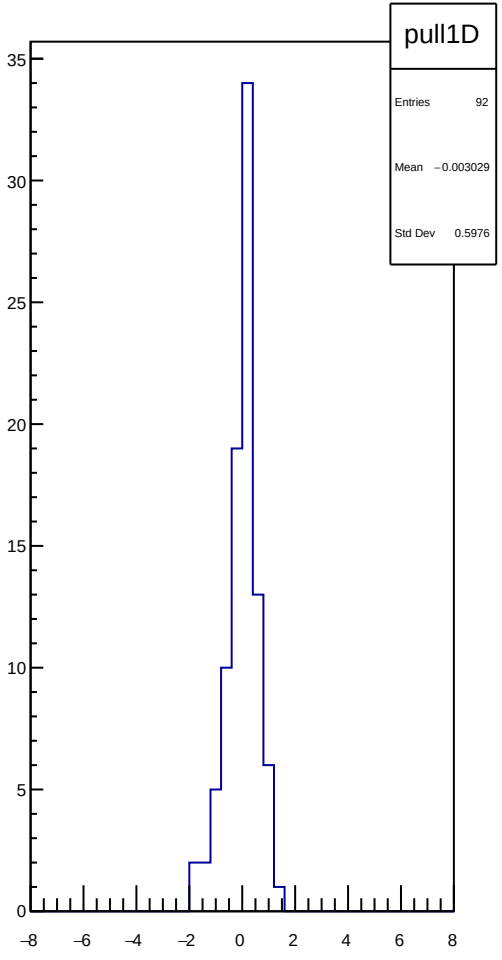

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 32.61 / 91
p0 −50.37 ± 2.363
pull
Entries 92
Mean 754.1
Std Dev 0

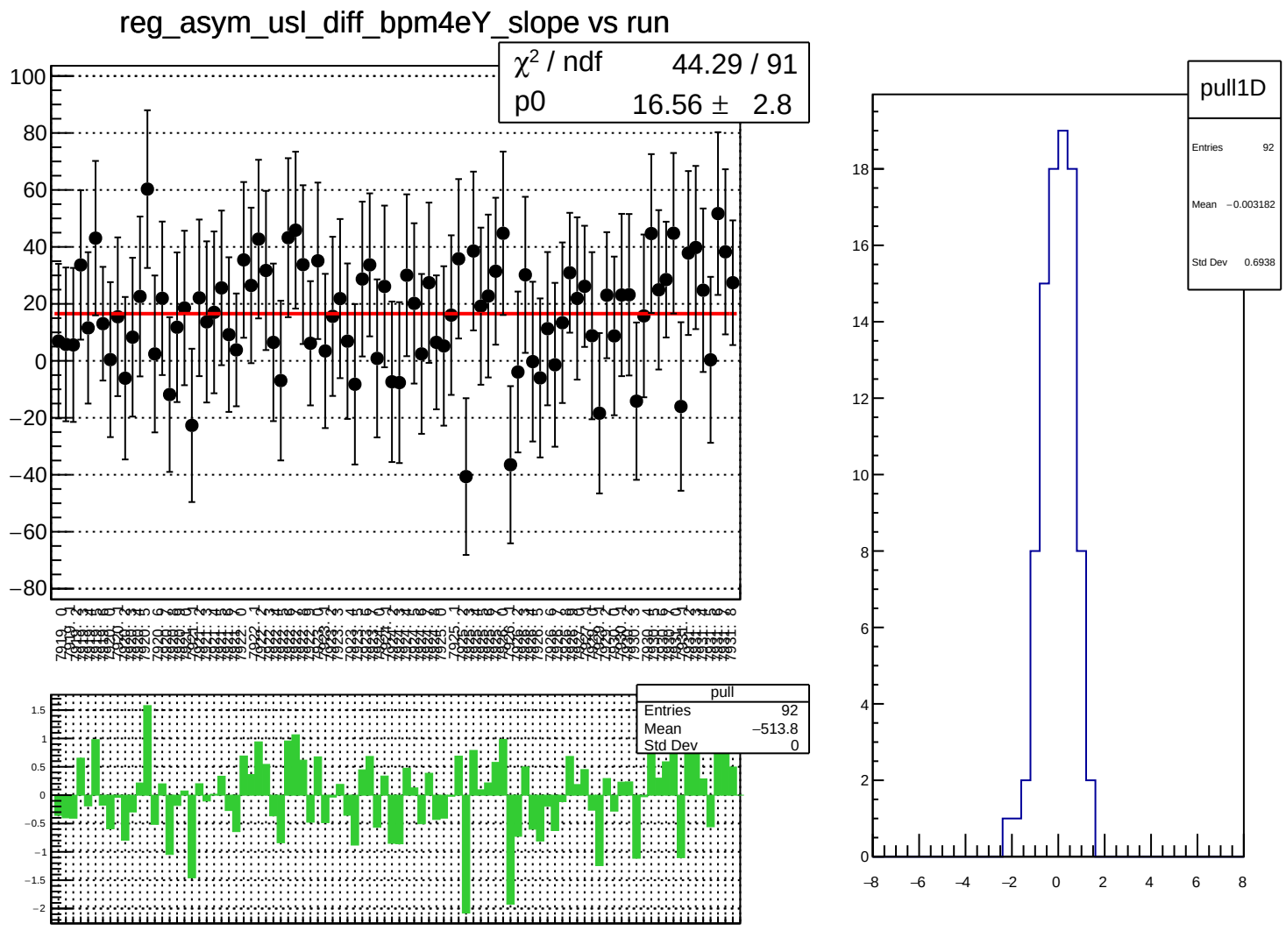

pull1D
Entries 92
Mean 0.003119
Std Dev 0.5954

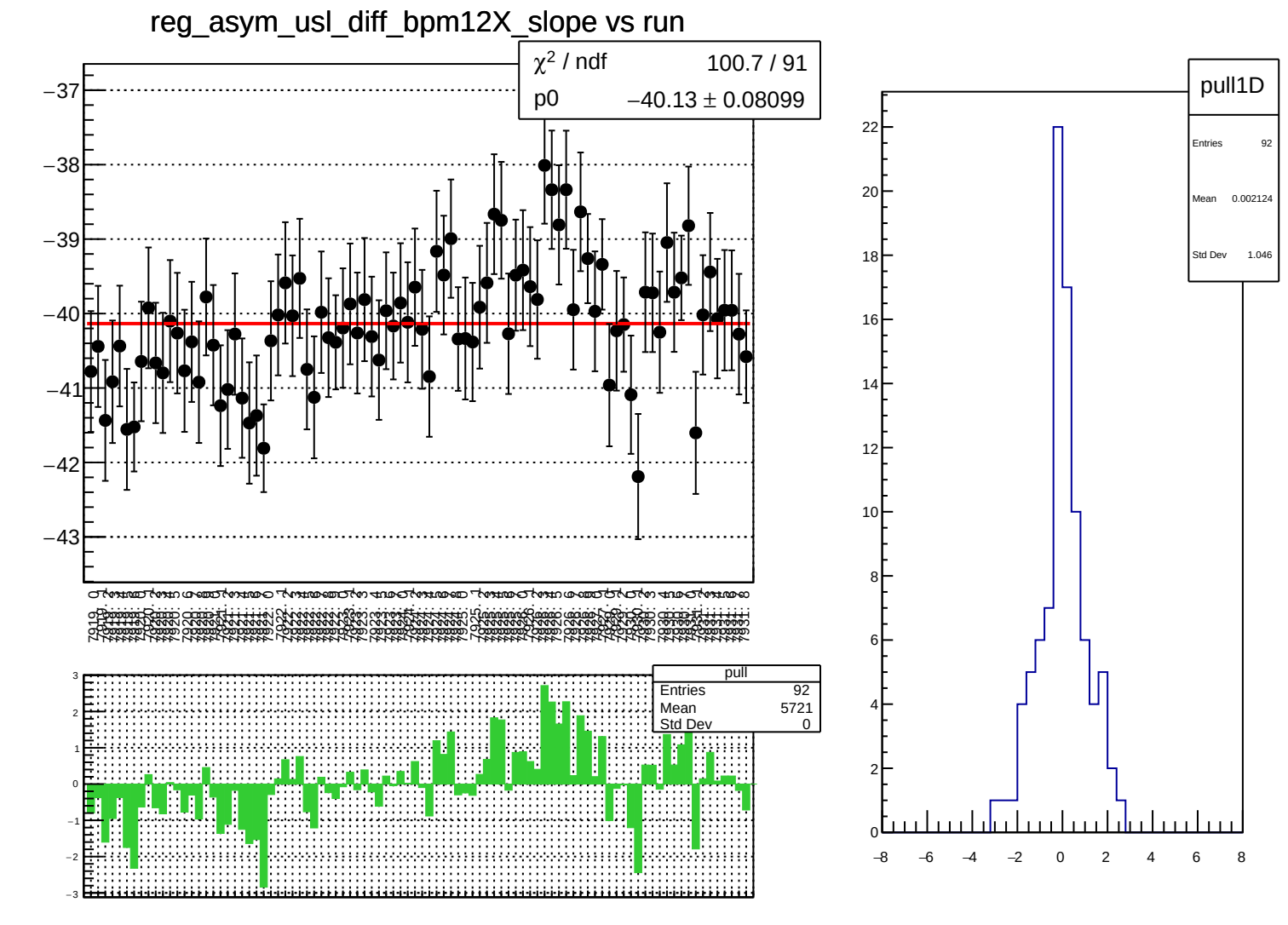

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 42.29 / 91
p0 9.505 ± 2.435
pull
Entries 92
Mean −2695
Std Dev 0

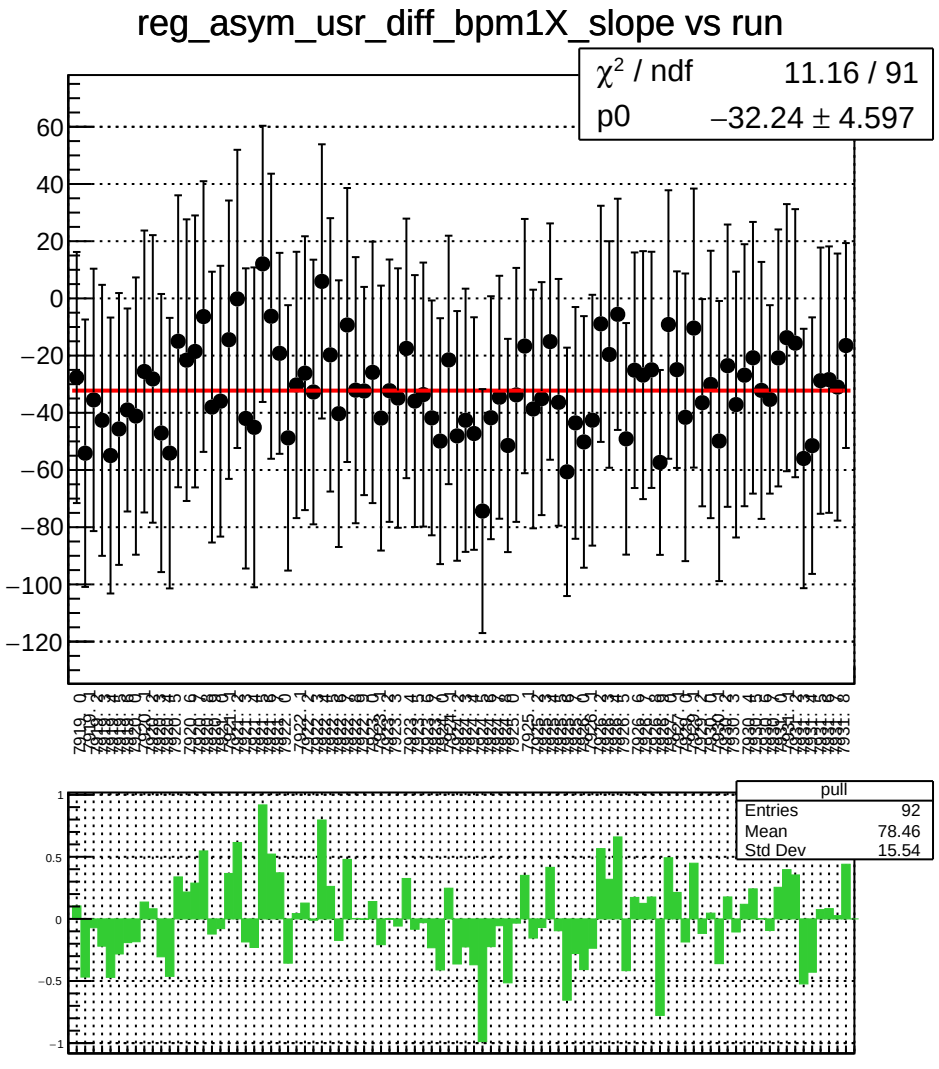

pull1D
Entries 92
Mean 0.0009698
Std Dev 0.678

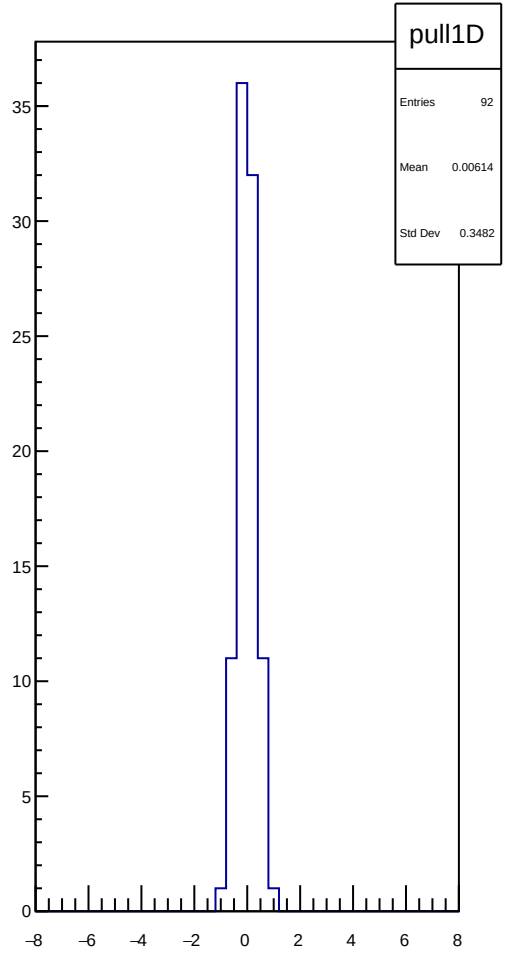

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 32.85 / 91
p0 −12.79 ± 2.113
pull
Entries 92
Mean 846.4
Std Dev 0

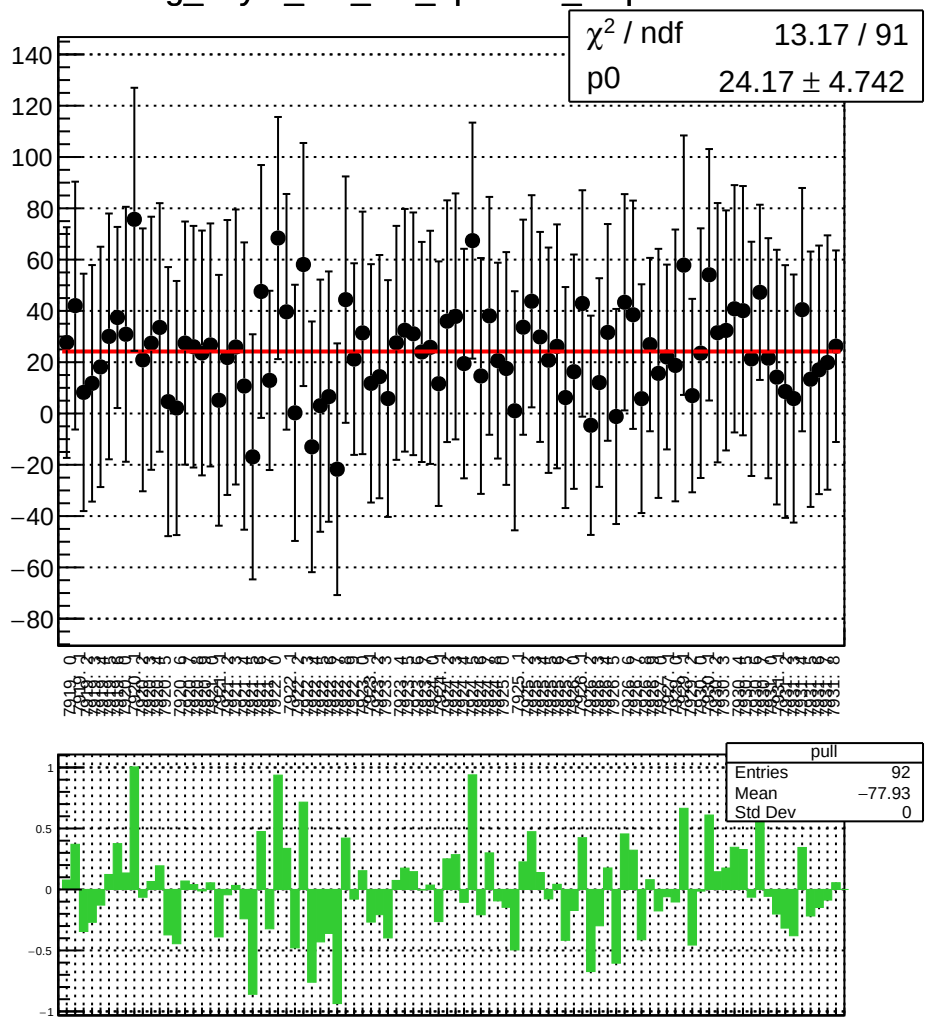

pull1D
Entries 92
Mean −0.003029
Std Dev 0.5976

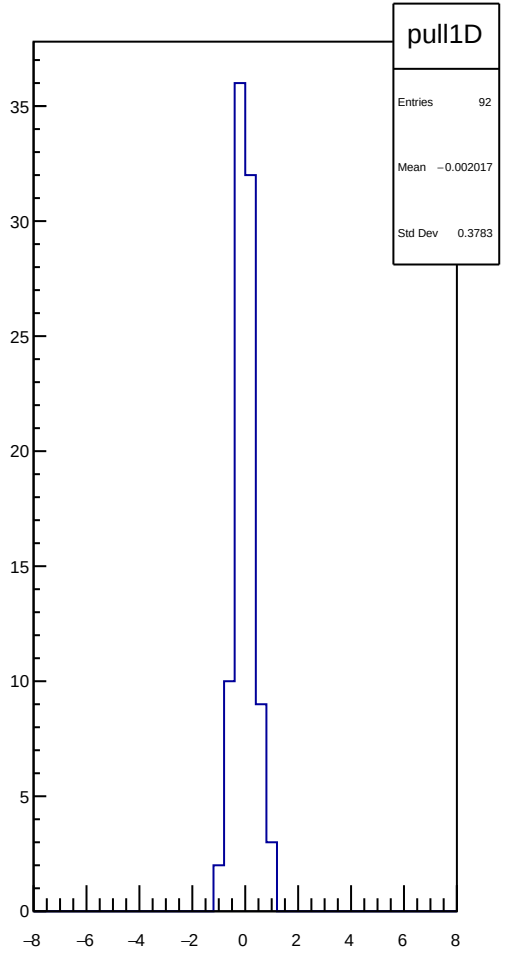

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 44.29 / 91
p0 16.56 ± 2.8
pull
Entries 92
Mean −513.8
Std Dev 0
pull1D
Entries 92
Mean −0.003182
Std Dev 0.6938

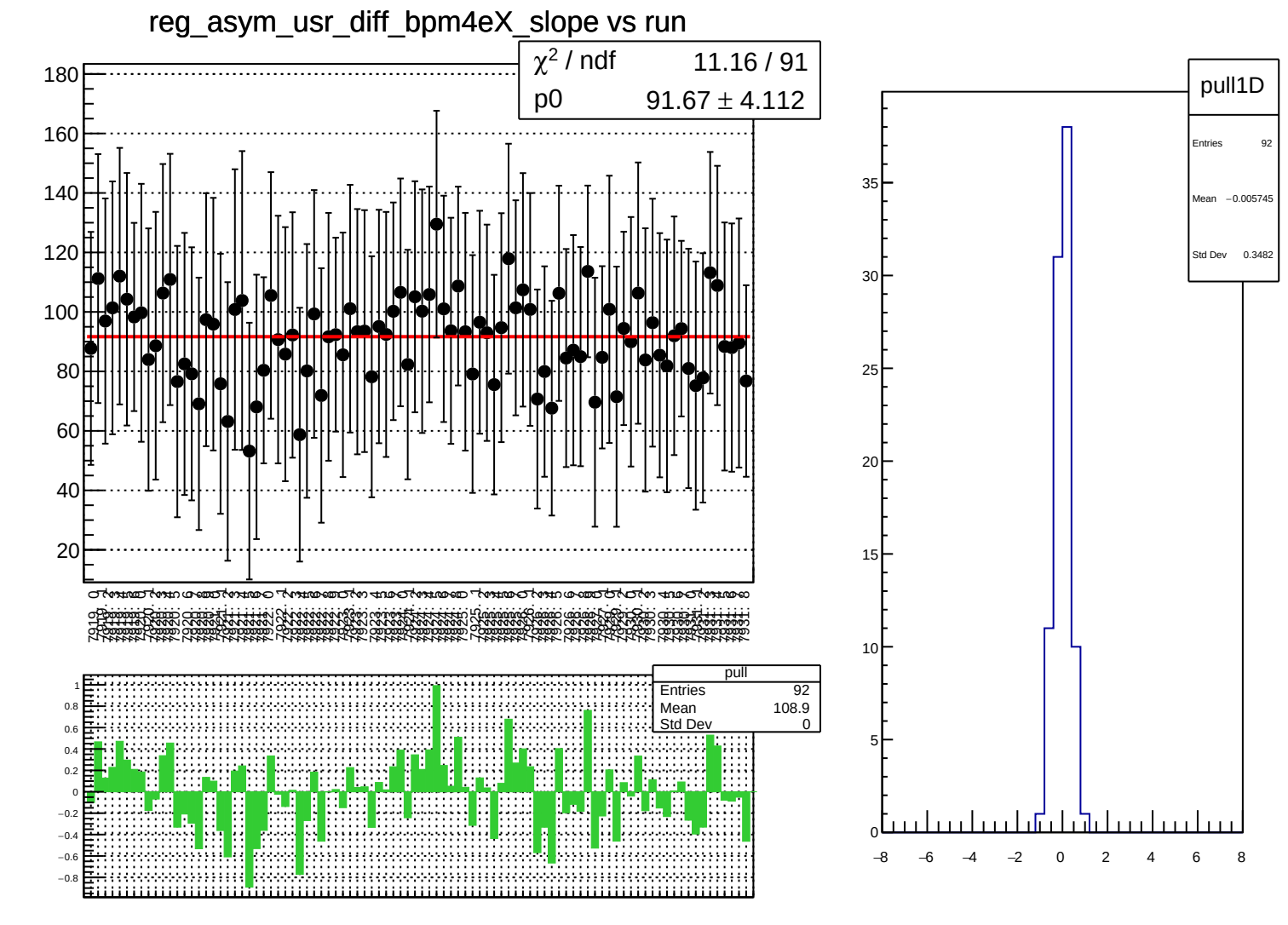

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 100.7 / 91
p0 −40.13 ± 0.08099
pull
Entries 92
Mean 5721
Std Dev 0
pull1D
Entries 92
Mean 0.002124
Std Dev 1.046

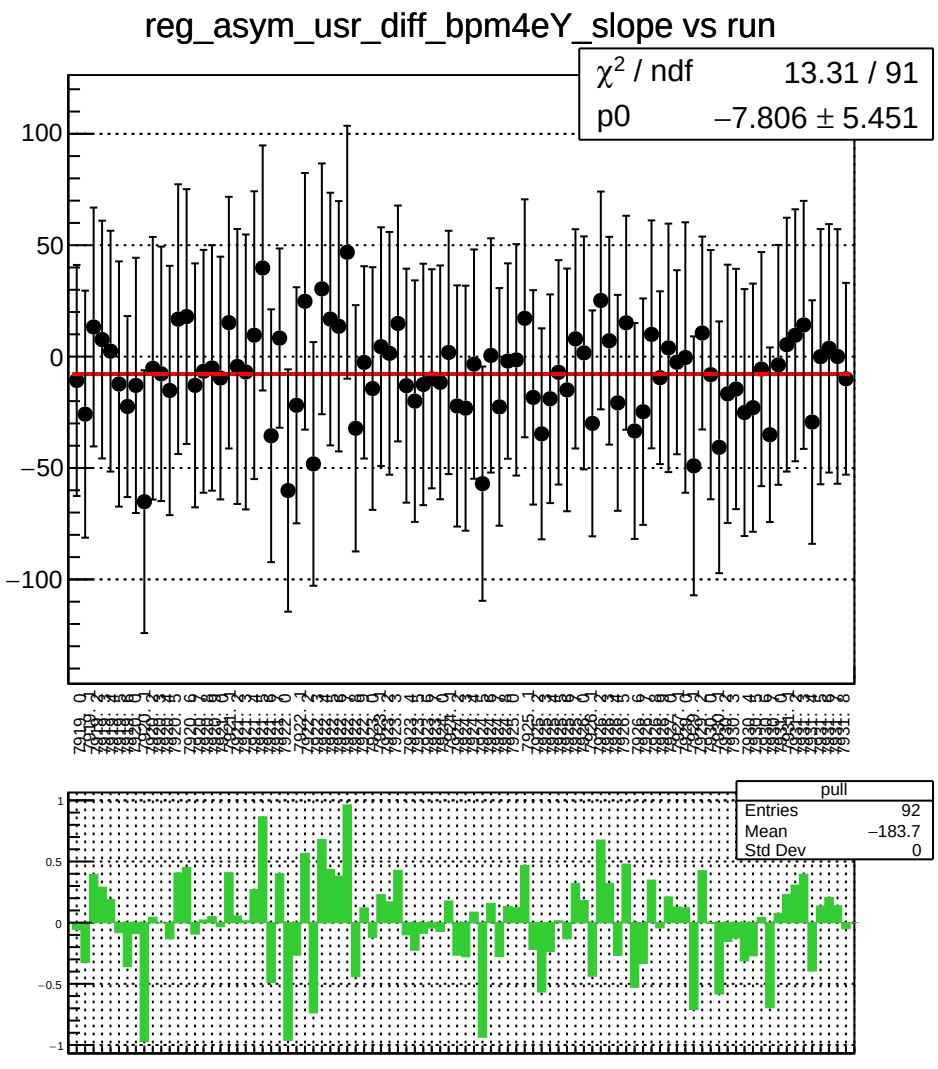

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 11.16 / 91
p0 −32.24 ± 4.597
pull
Entries 92
Mean 78.46
Std Dev 15.54

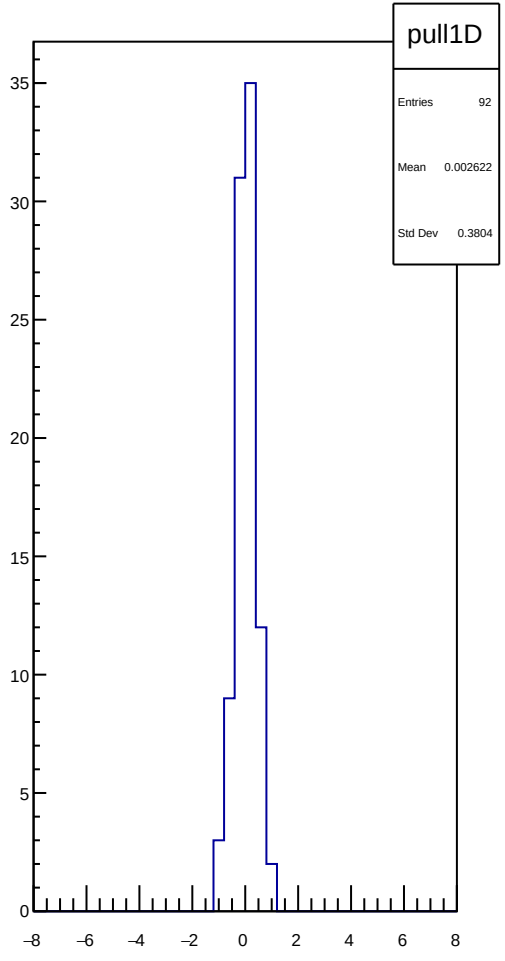

pull1D
Entries 92
Mean 0.00614
Std Dev 0.3482

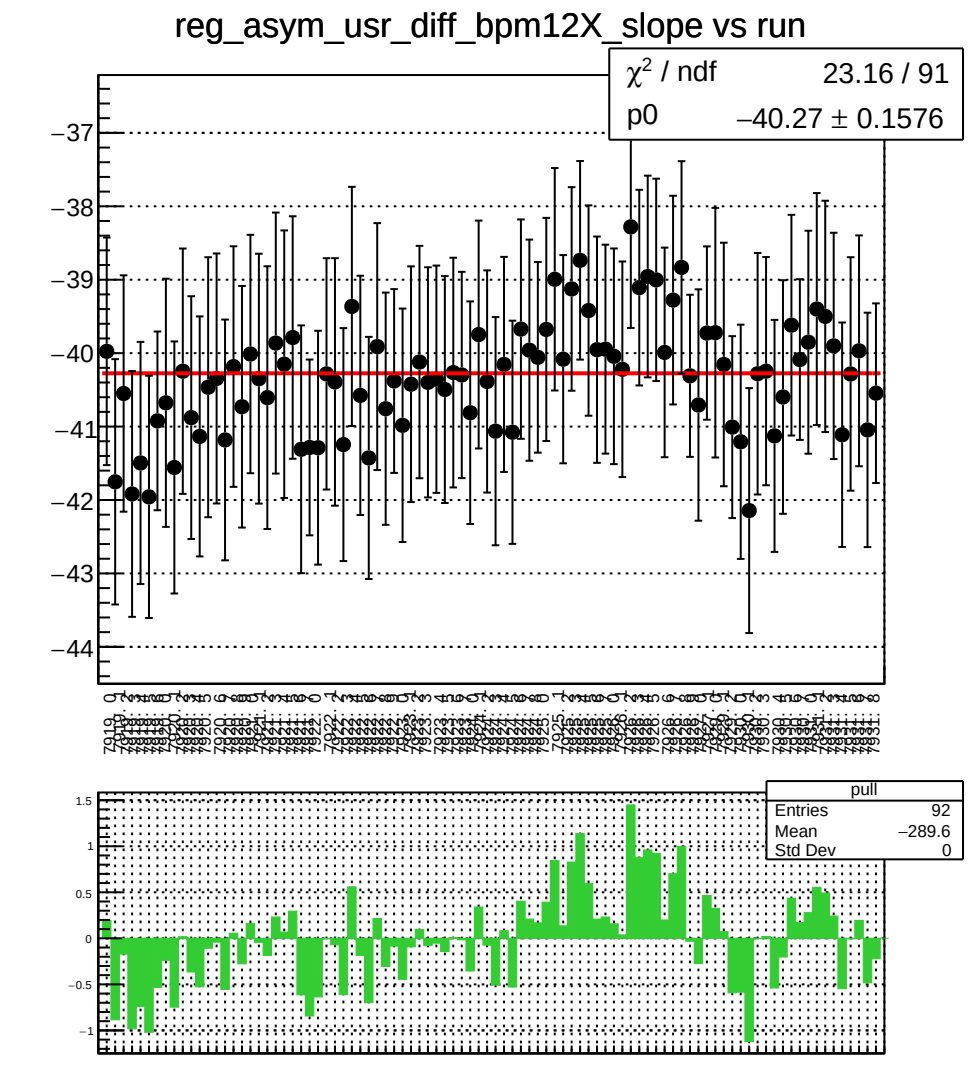

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 13.17 / 91
p0 24.17 ± 4.742
pull
Entries 92
Mean −77.93
Std Dev 0

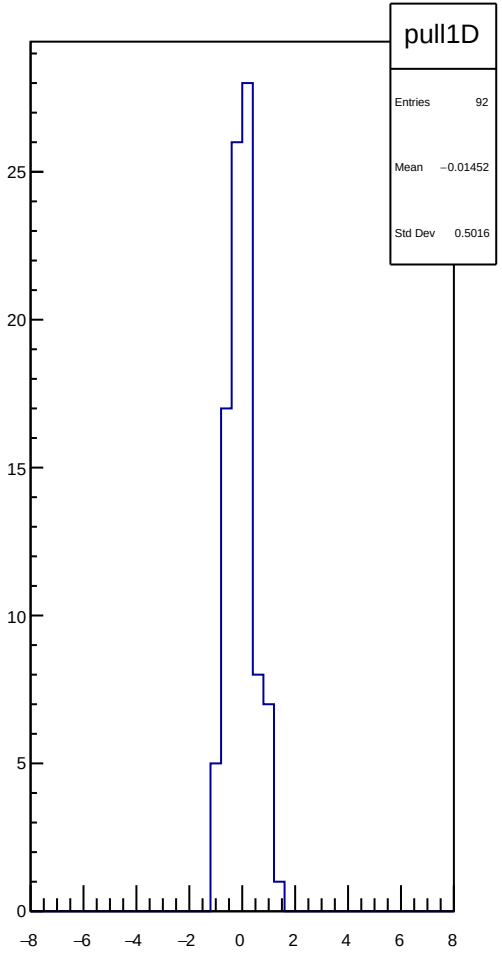

pull1D
Entries 92
Mean −0.002017
Std Dev 0.3783

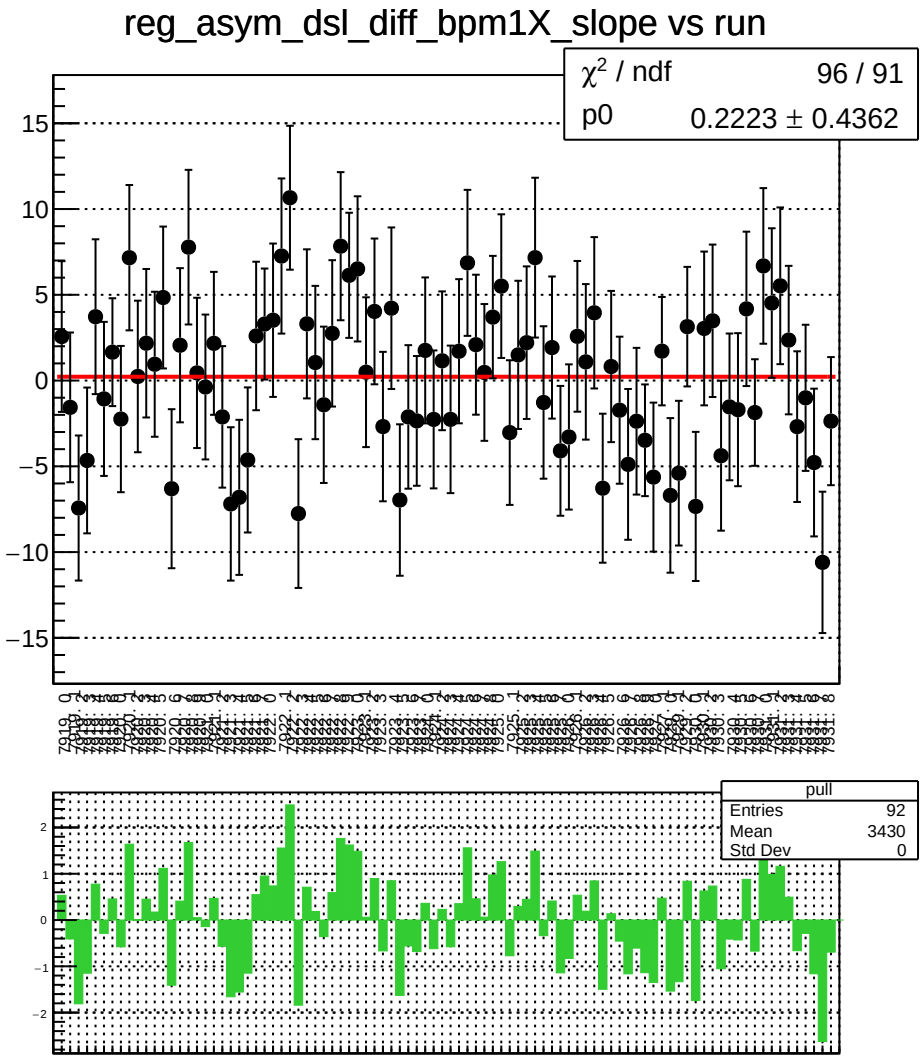

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 11.16 / 91
p0 91.67 ± 4.112
pull
Entries 92
Mean 108.9
Std Dev 0
pull1D
Entries 92
Mean −0.005745
Std Dev 0.3482

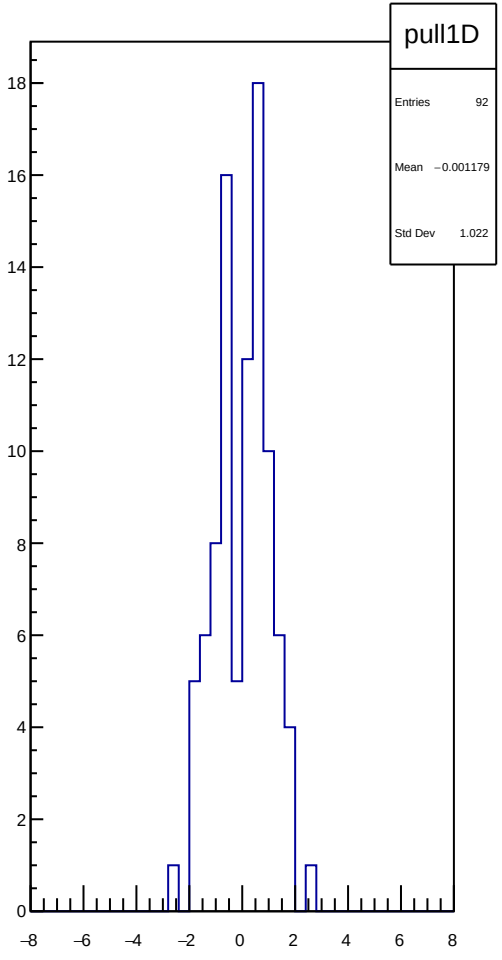

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 13.31 / 91
p0 −7.806 ± 5.451
100
50
0
−50
−100
pull
Entries 92
Mean −183.7
Std Dev 0
1
0.5
0
−0.5
−1

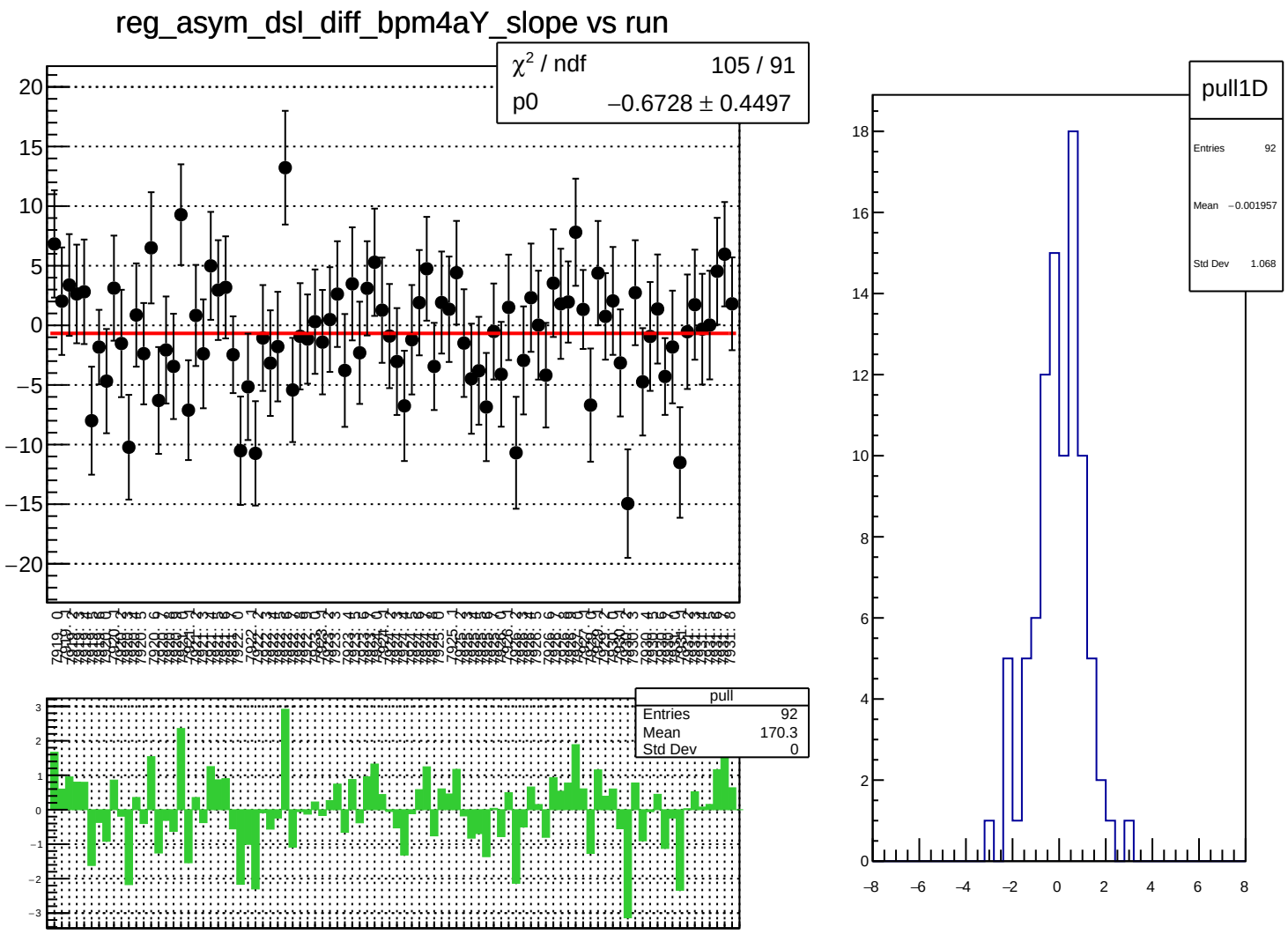

pull1D
Entries 92
Mean 0.002622
Std Dev 0.3804
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

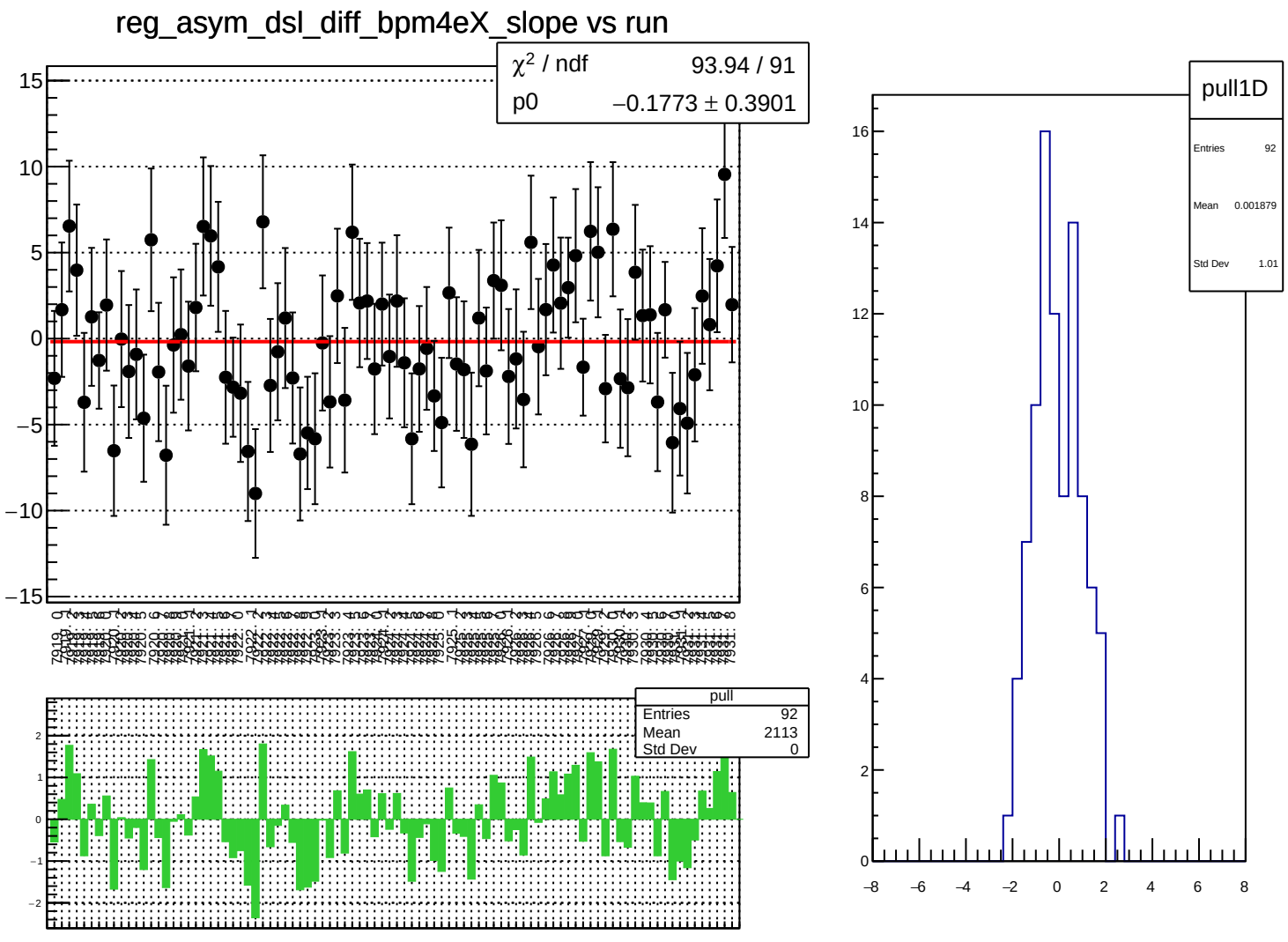

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 23.16 / 91
p0 −40.27 ± 0.1576
pull
Entries 92
Mean −289.6
Std Dev 0

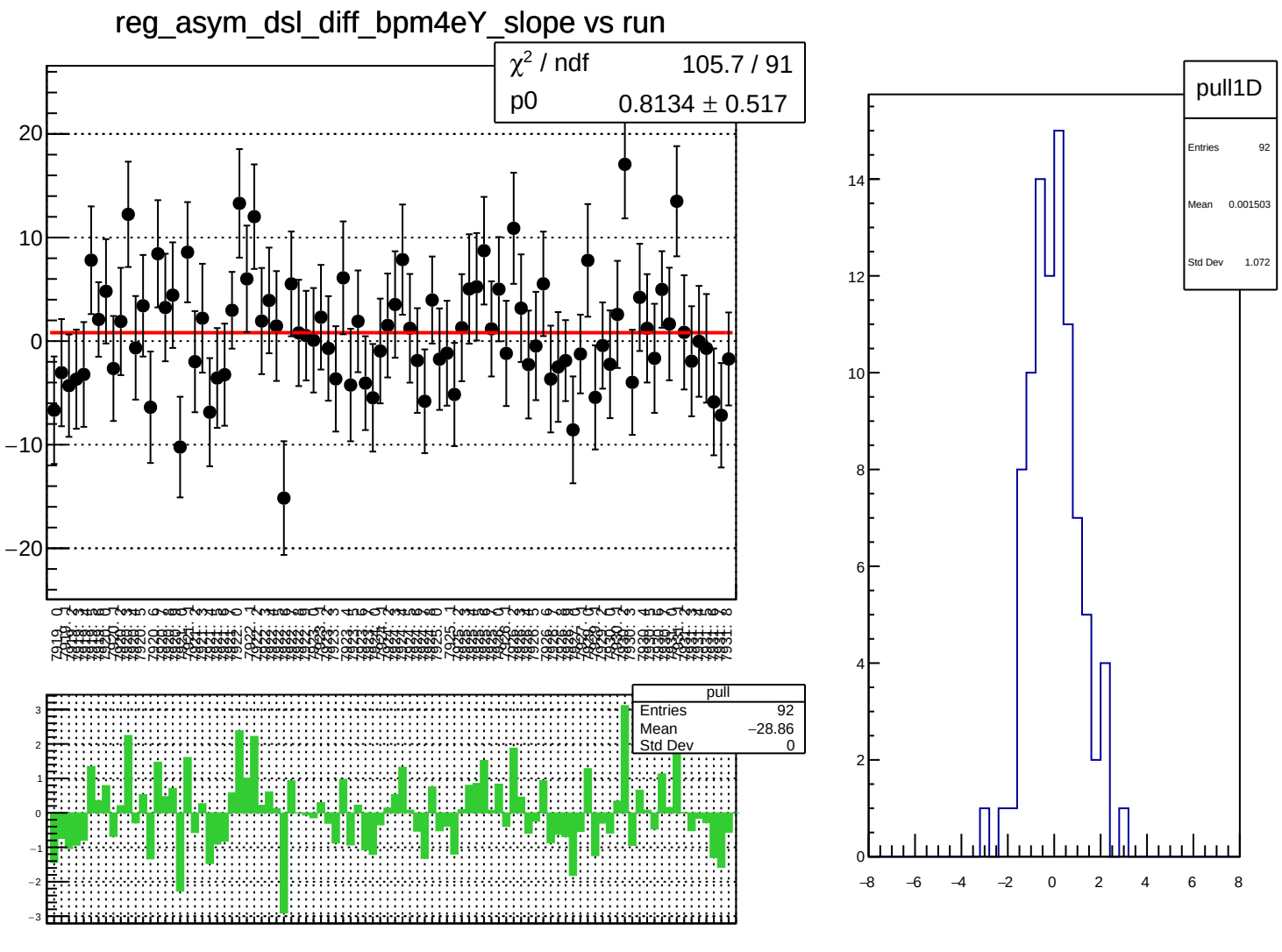

pull1D
Entries 92
Mean −0.01452
Std Dev 0.5016

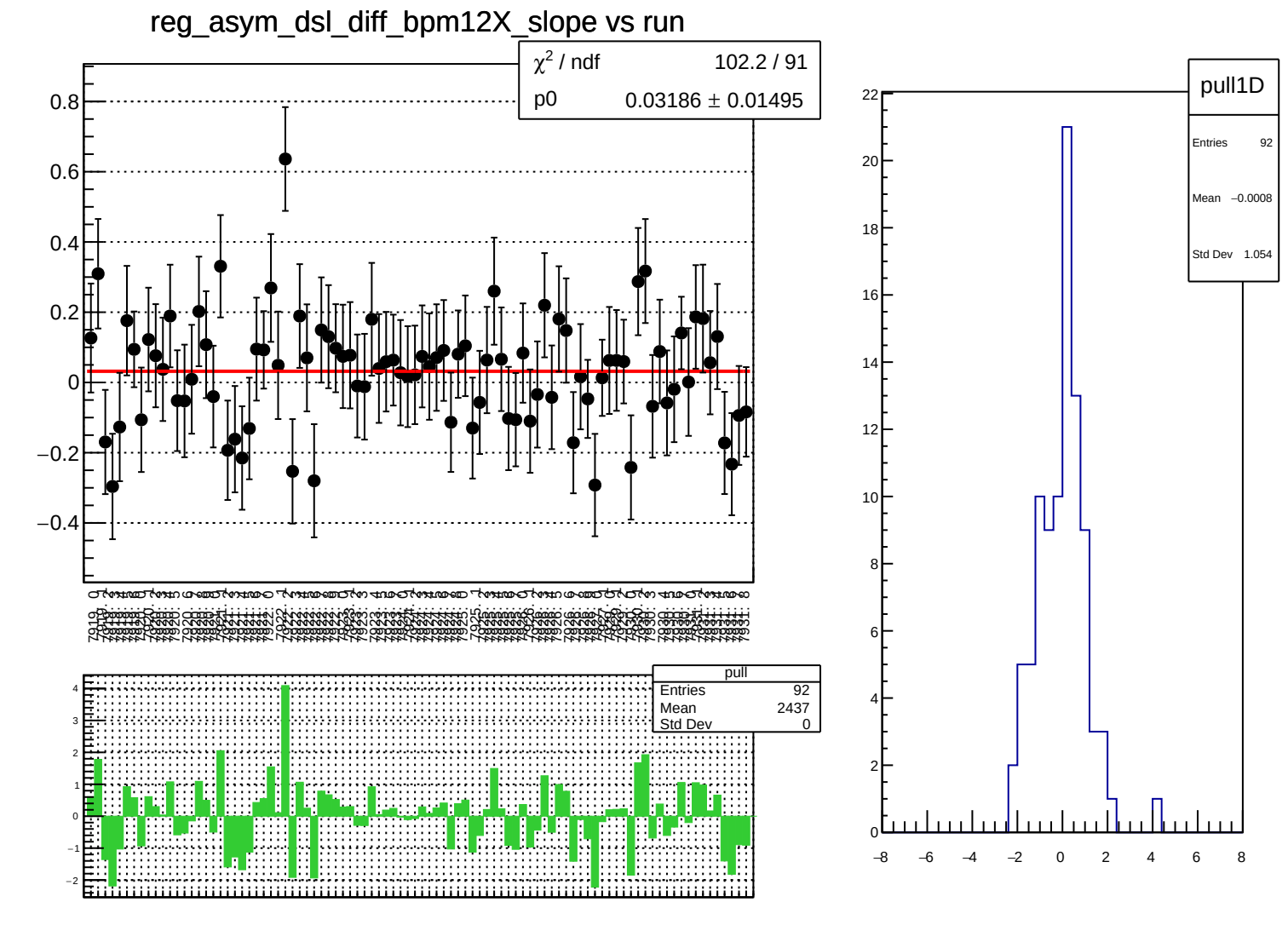

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 96 / 91
p0 0.2223 ± 0.4362
pull
Entries 92
Mean 3430
Std Dev 0

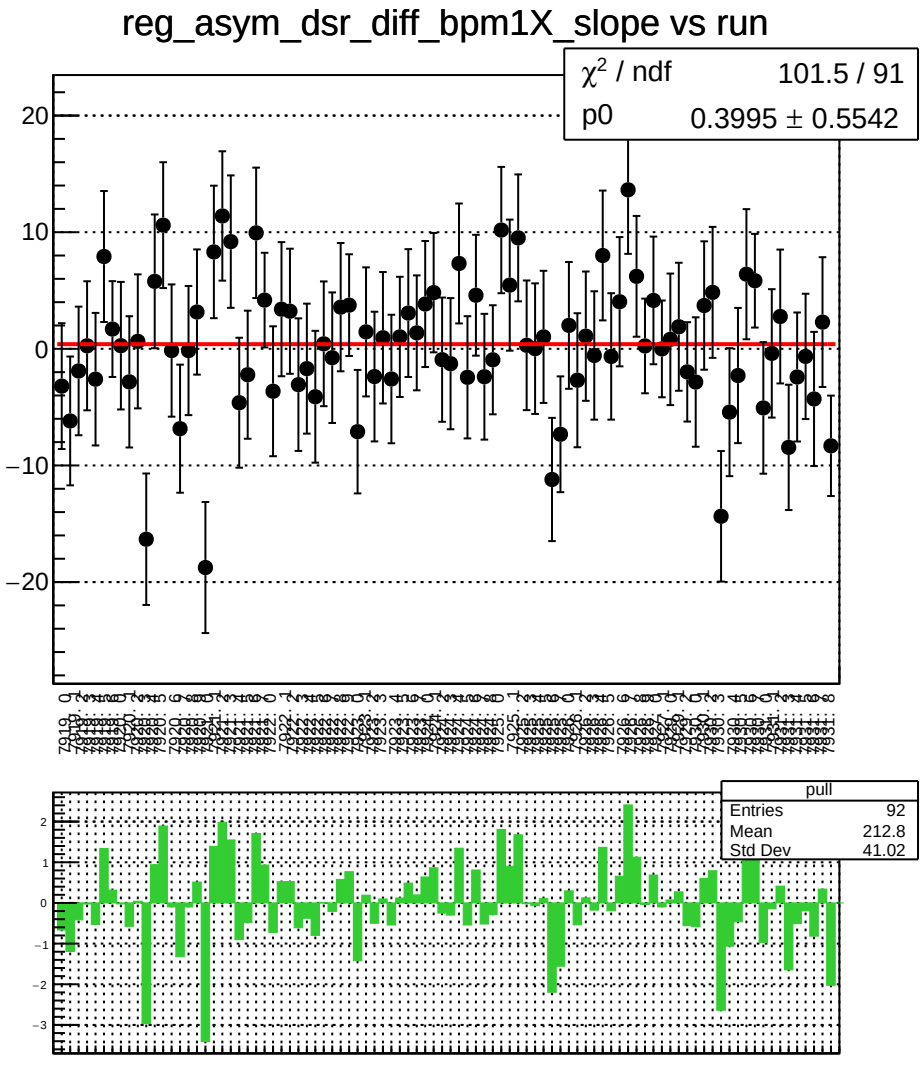

pull1D
Entries 92
Mean −0.001179
Std Dev 1.022

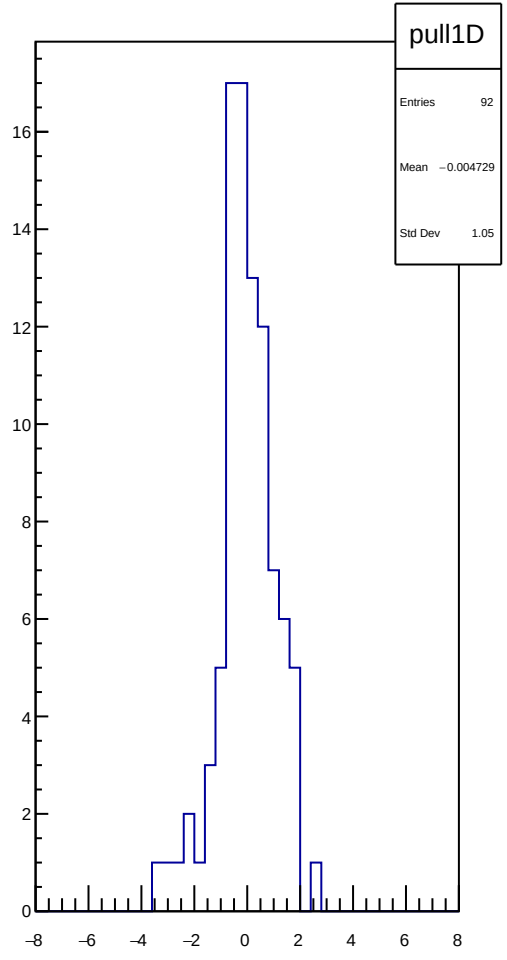

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 105 / 91
p0 −0.6728 ± 0.4497
pull
Entries 92
Mean 170.3
Std Dev 0
pull1D
Entries 92
Mean −0.001957
Std Dev 1.068

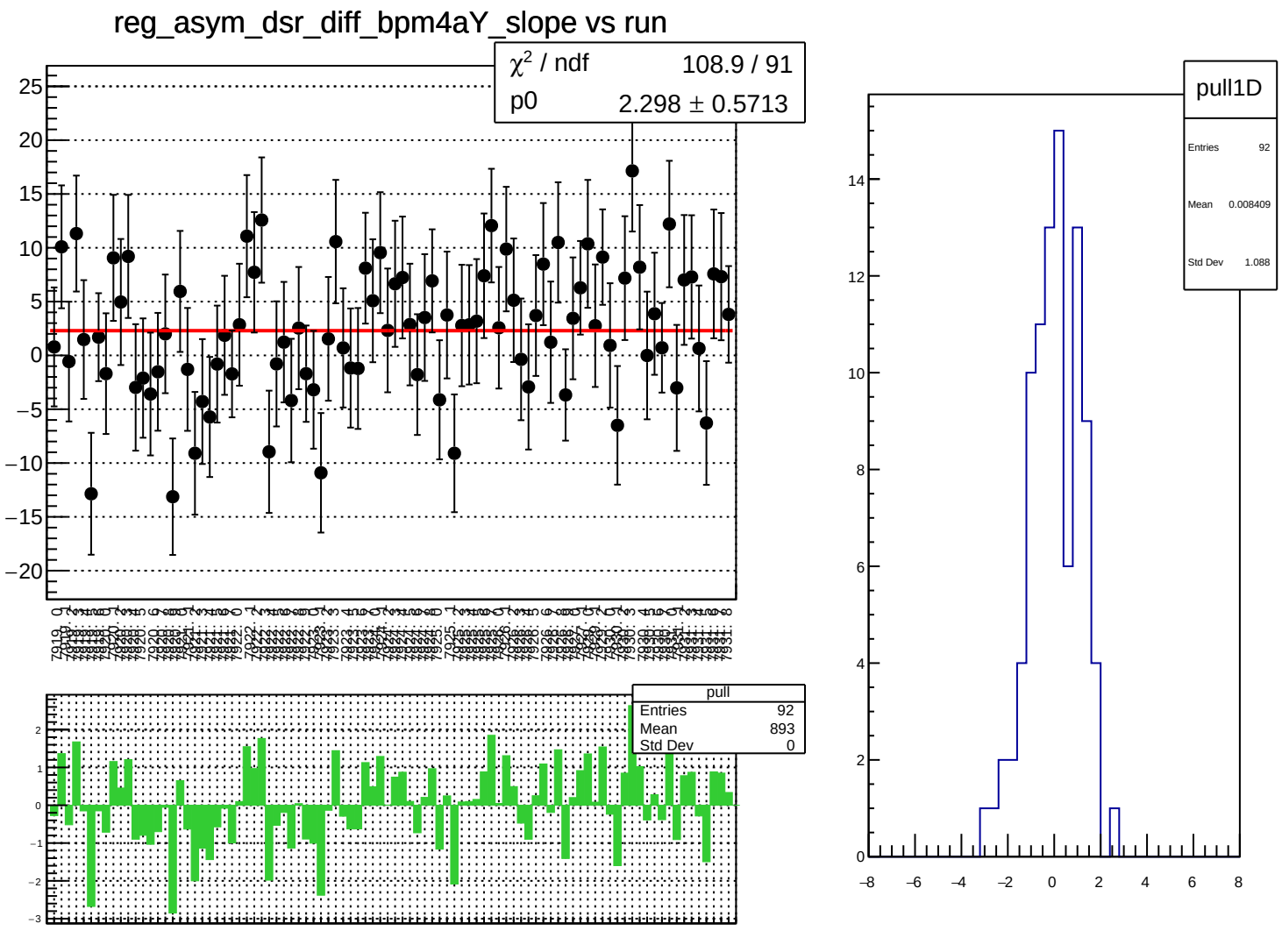

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 93.94 / 91
p0 −0.1773 ± 0.3901
pull
Entries 92
Mean 2113
Std Dev 0
pull1D
Entries 92
Mean 0.001879
Std Dev 1.01

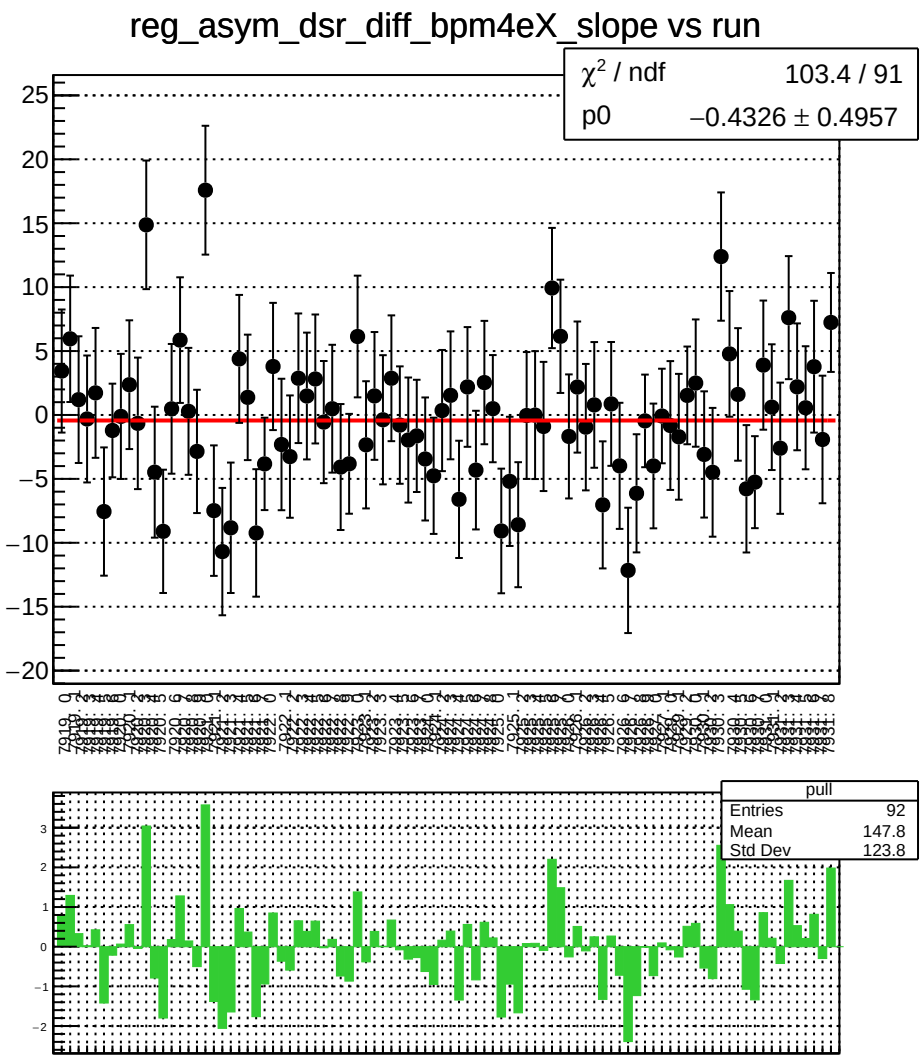

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 105.7 / 91
p0 0.8134 ± 0.517
pull
Entries 92
Mean −28.86
Std Dev 0
pull1D
Entries 92
Mean 0.001503
Std Dev 1.072

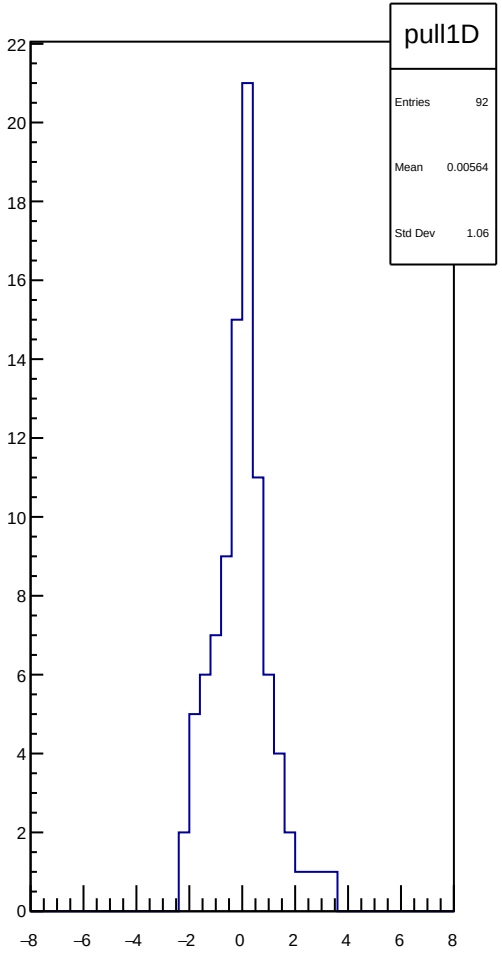

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 102.2 / 91
p0 0.03186 ± 0.01495
pull
Entries 92
Mean 2437
Std Dev 0
pull1D
Entries 92
Mean −0.0008
Std Dev 1.054

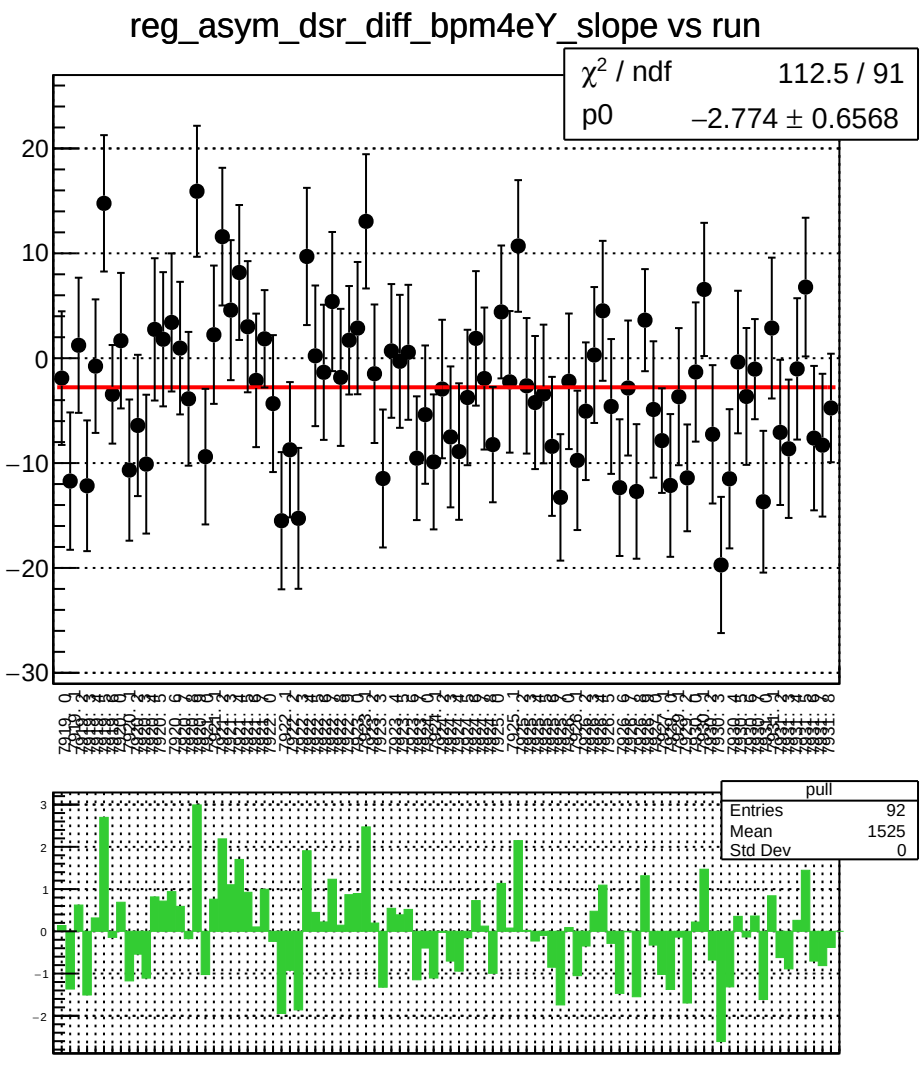

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 101.5 / 91
p0 0.3995 ± 0.5542
pull
Entries 92
Mean 212.8
Std Dev 41.02

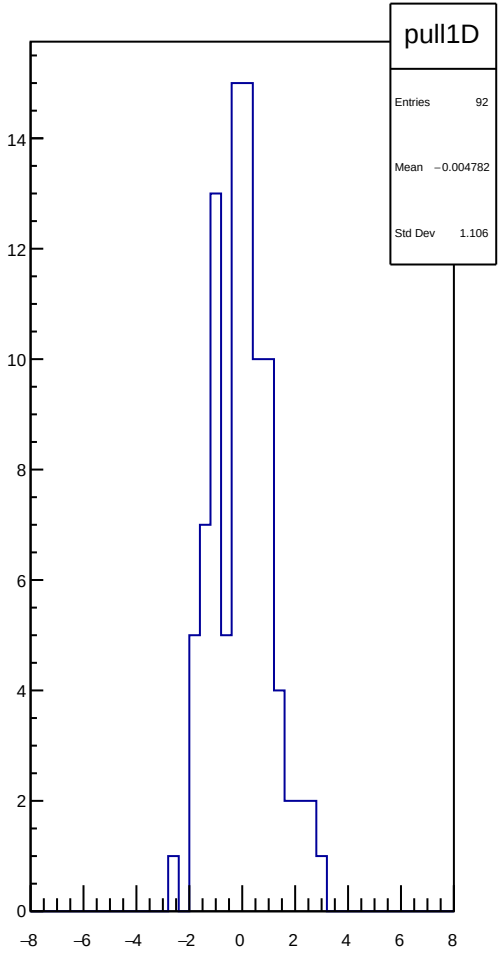

pull1D
Entries 92
Mean −0.004729
Std Dev 1.05

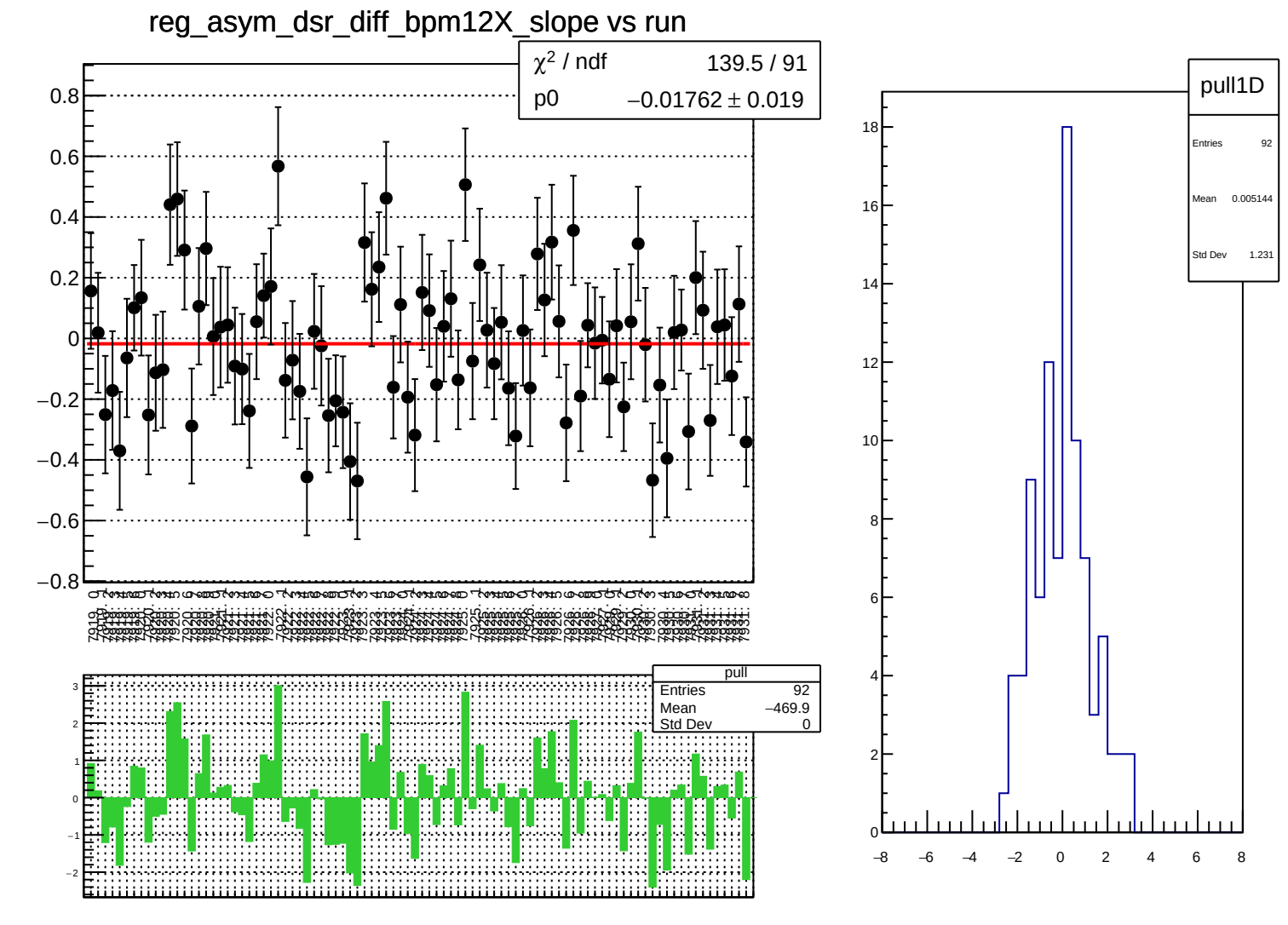

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 108.9 / 91
p0 2.298 ± 0.5713
pull
Entries 92
Mean 893
Std Dev 0
pull1D
Entries 92
Mean 0.008409
Std Dev 1.088

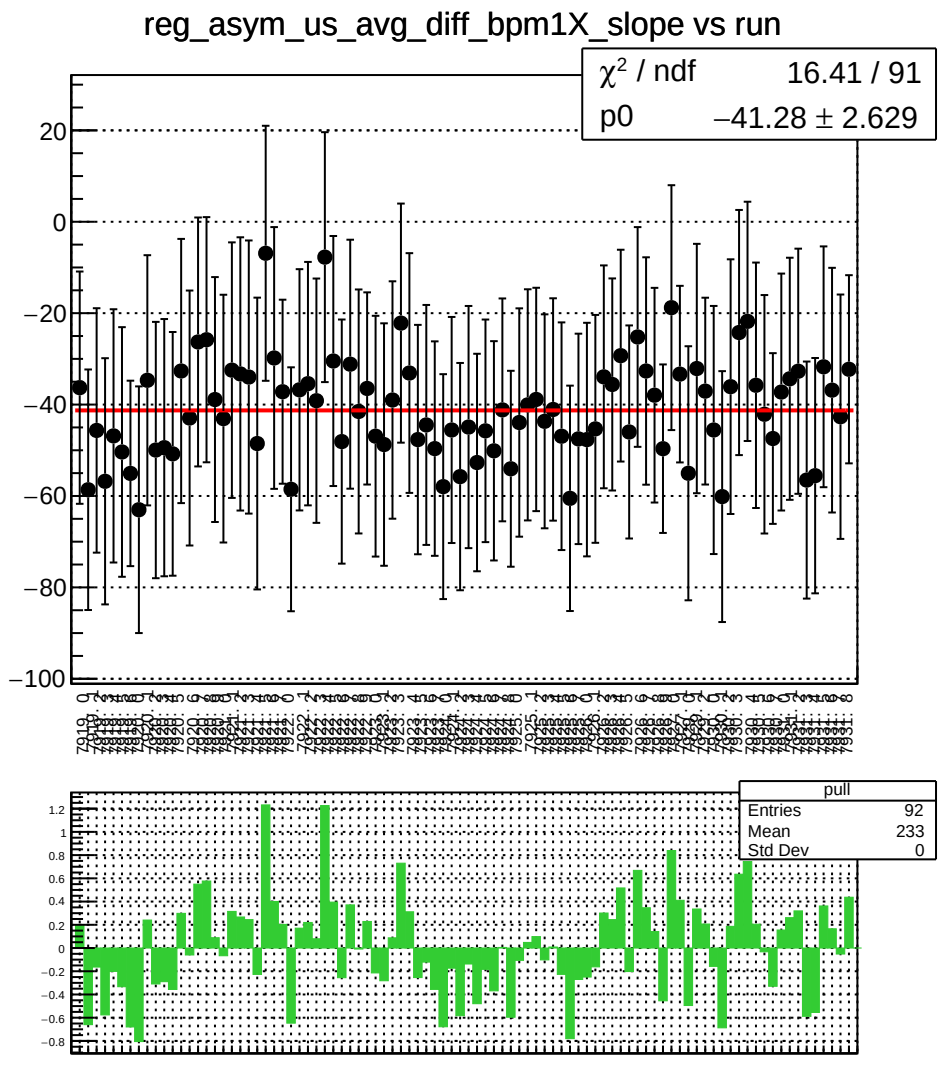

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 103.4 / 91
p0 −0.4326 ± 0.4957
pull
Entries 92
Mean 147.8
Std Dev 123.8

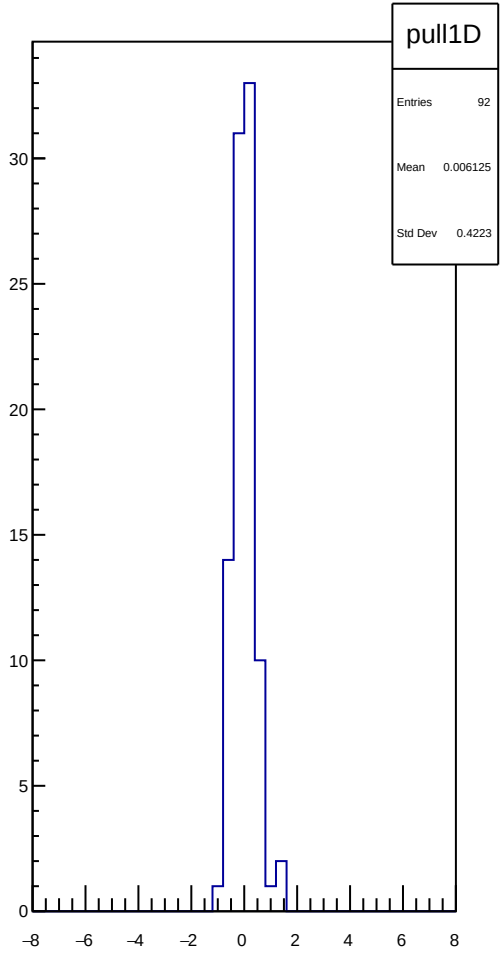

pull1D
Entries 92
Mean 0.00564
Std Dev 1.06

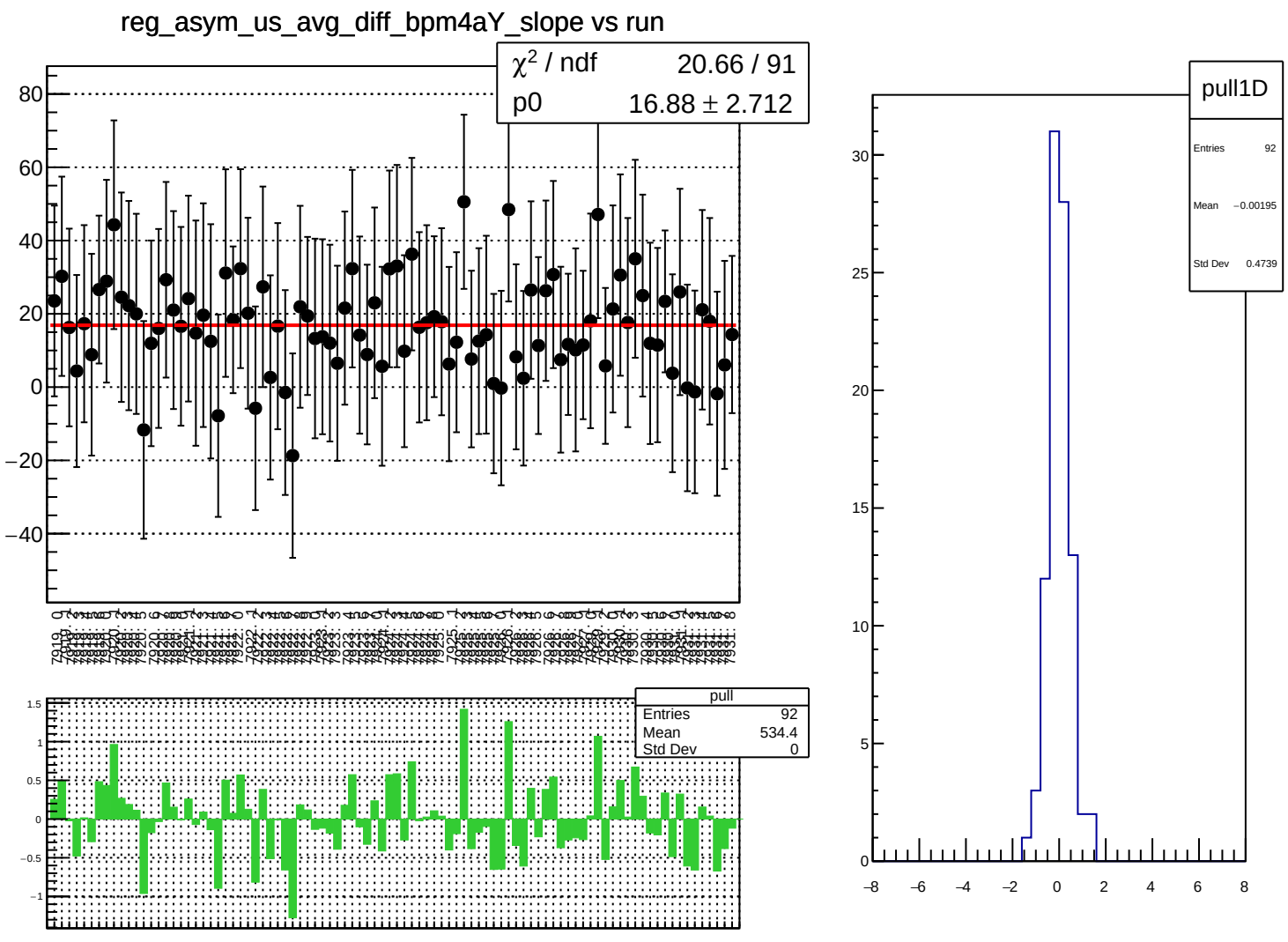

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 112.5 / 91
p0 −2.774 ± 0.6568
pull
Entries 92
Mean 1525
Std Dev 0

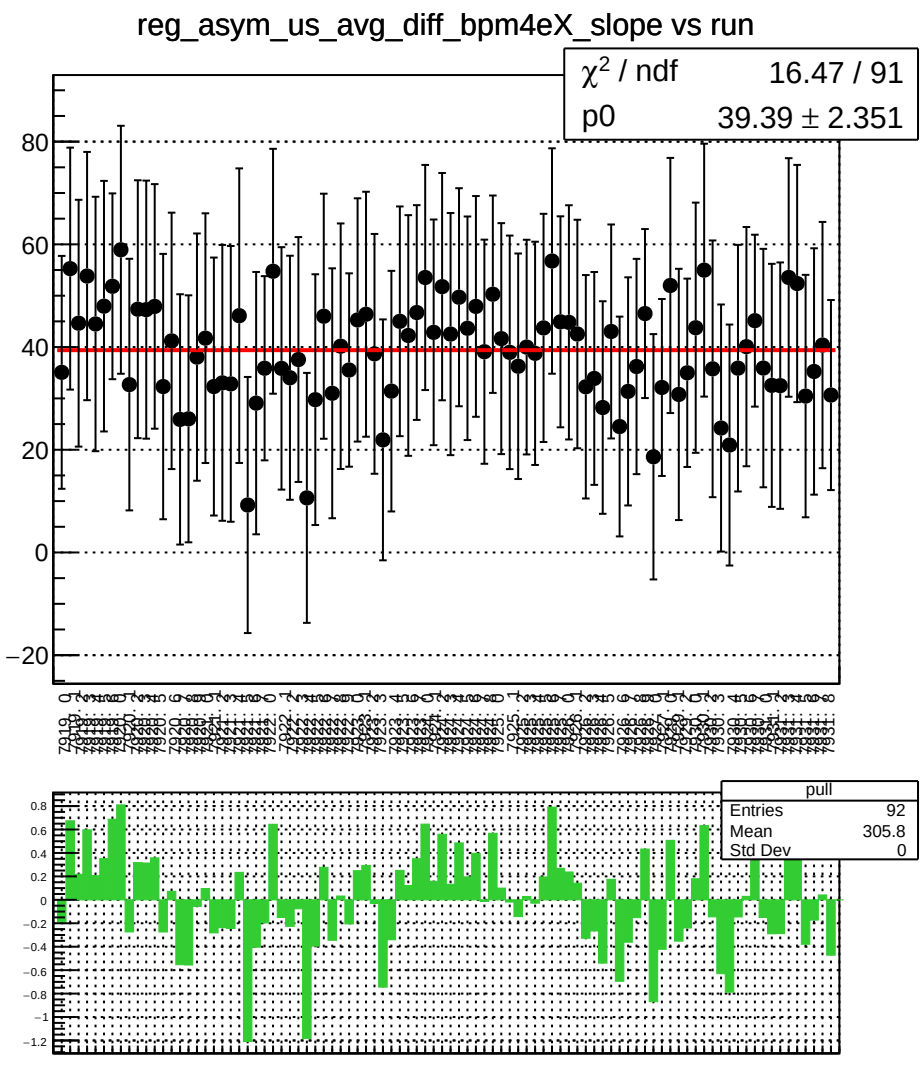

pull1D
Entries 92
Mean −0.004782
Std Dev 1.106

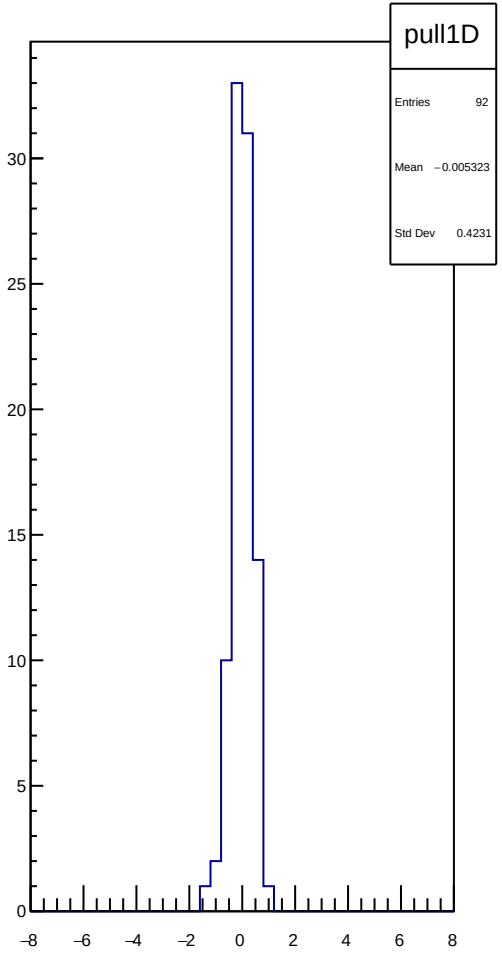

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 139.5 / 91
p0 −0.01762 ± 0.019
pull
Entries 92
Mean −469.9
Std Dev 0
pull1D
Entries 92
Mean 0.005144
Std Dev 1.231

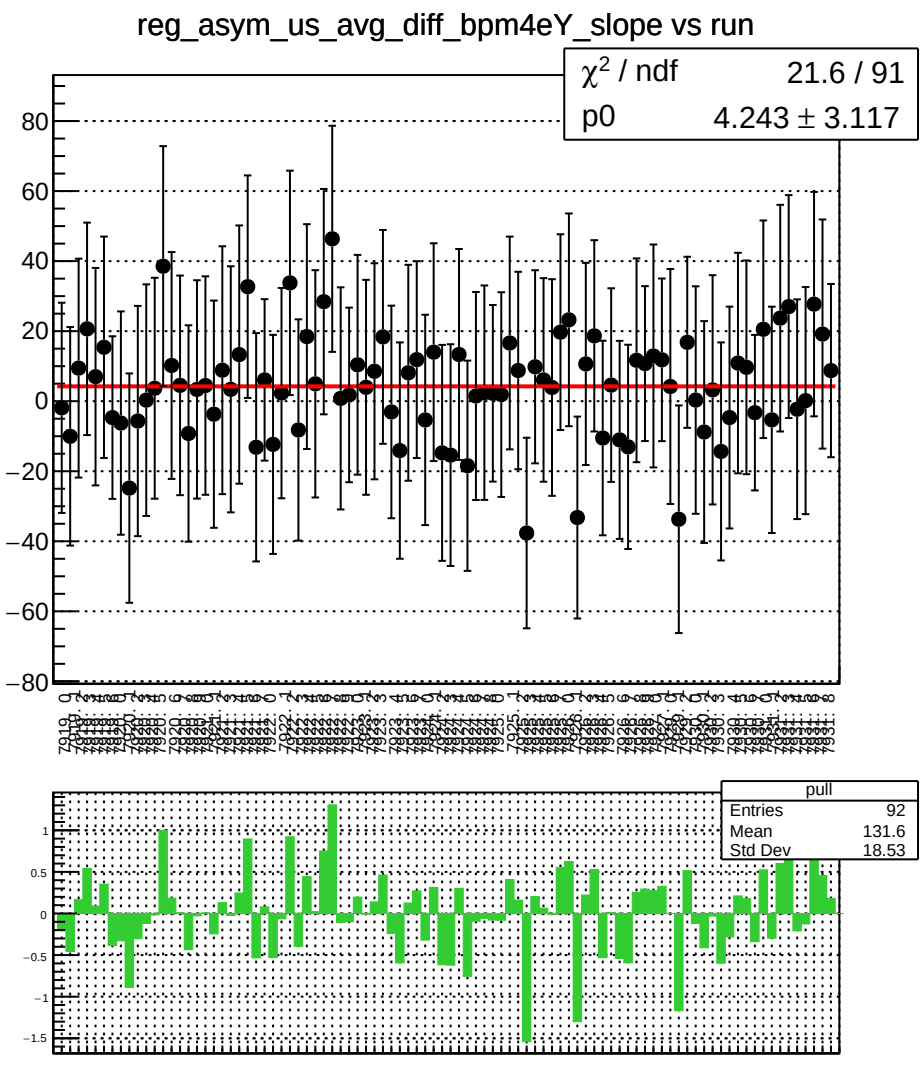

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 16.41 / 91
p0 −41.28 ± 2.629
pull
Entries 92
Mean 233
Std Dev 0

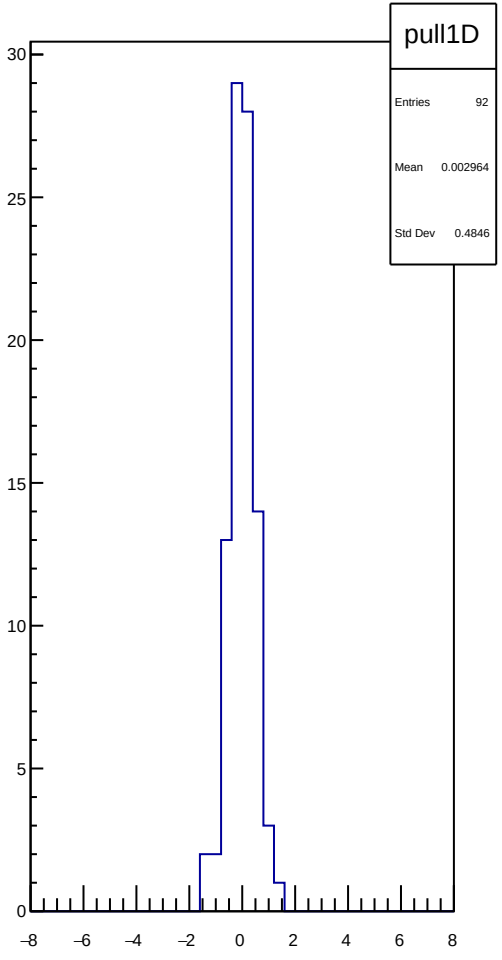

pull1D
Entries 92
Mean 0.006125
Std Dev 0.4223

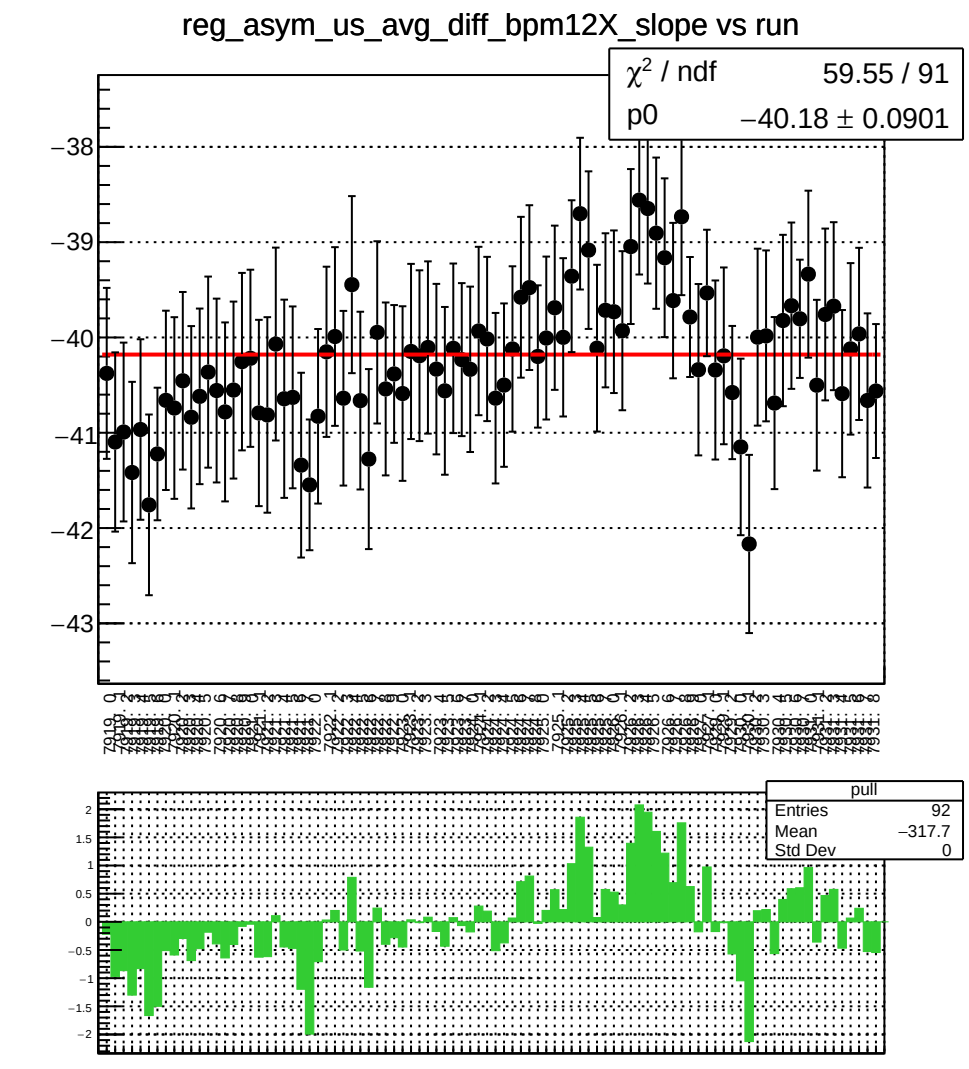

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 20.66 / 91
p0 16.88 ± 2.712
pull
Entries 92
Mean 534.4
Std Dev 0
pull1D
Entries 92
Mean −0.00195
Std Dev 0.4739

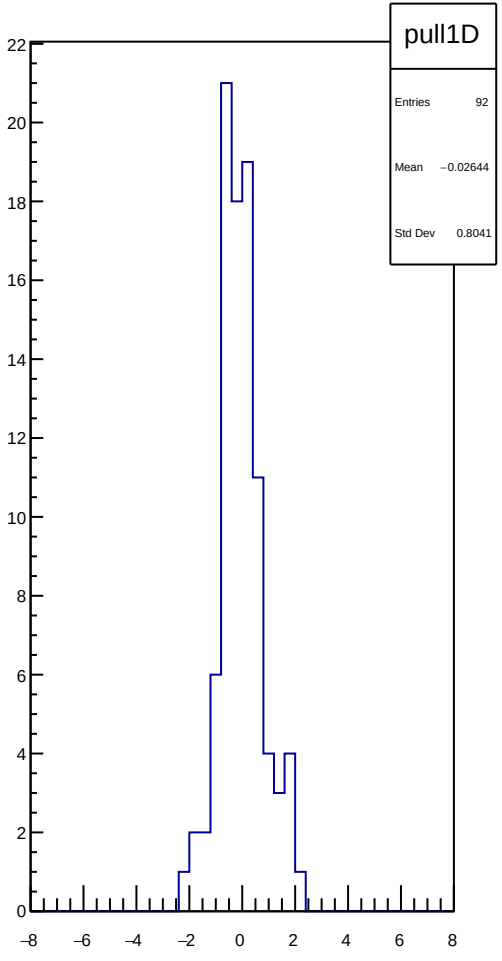

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 16.47 / 91
p0 39.39 ± 2.351
pull
Entries 92
Mean 305.8
Std Dev 0

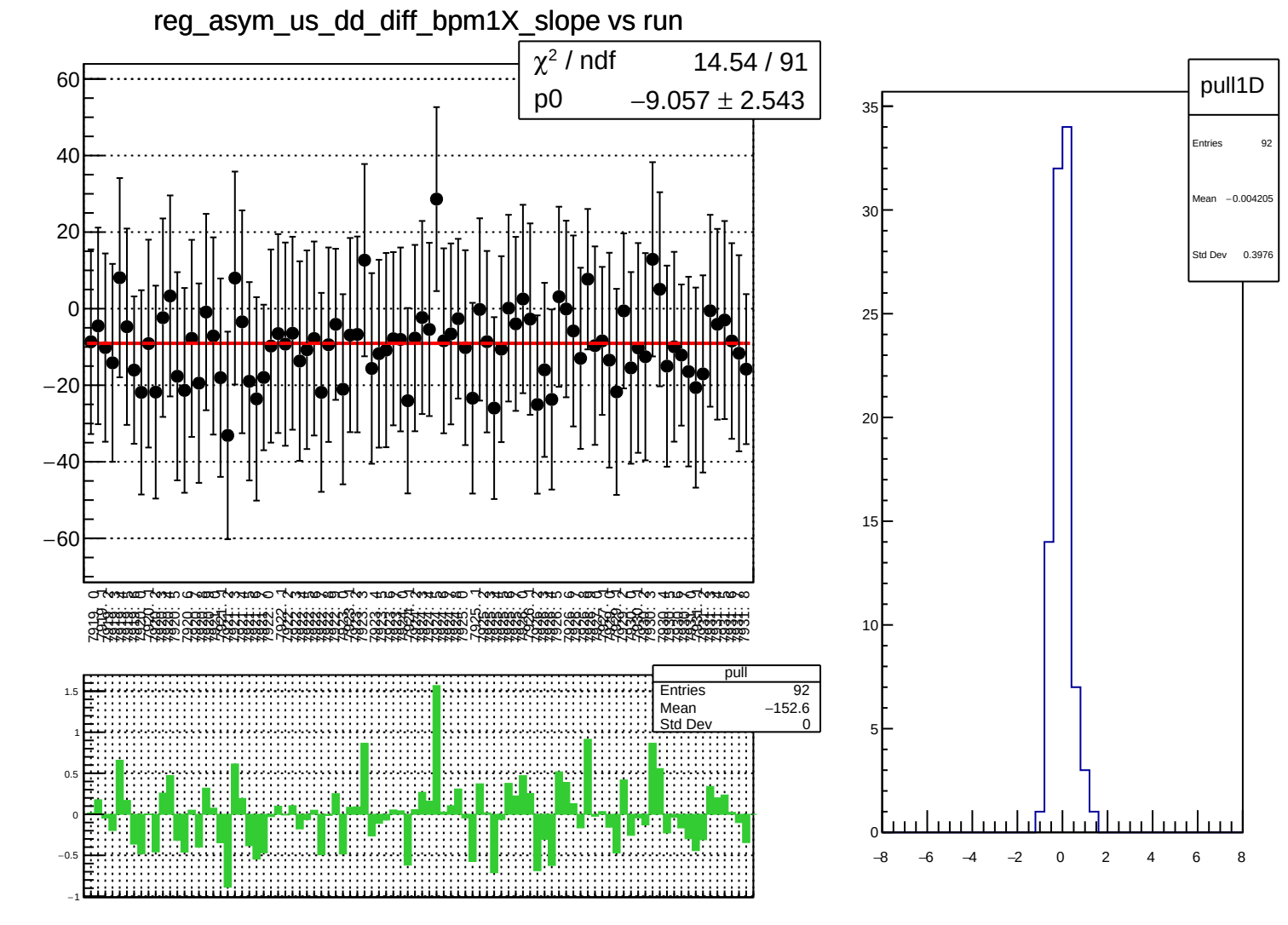

pull1D
Entries 92
Mean −0.005323
Std Dev 0.4231

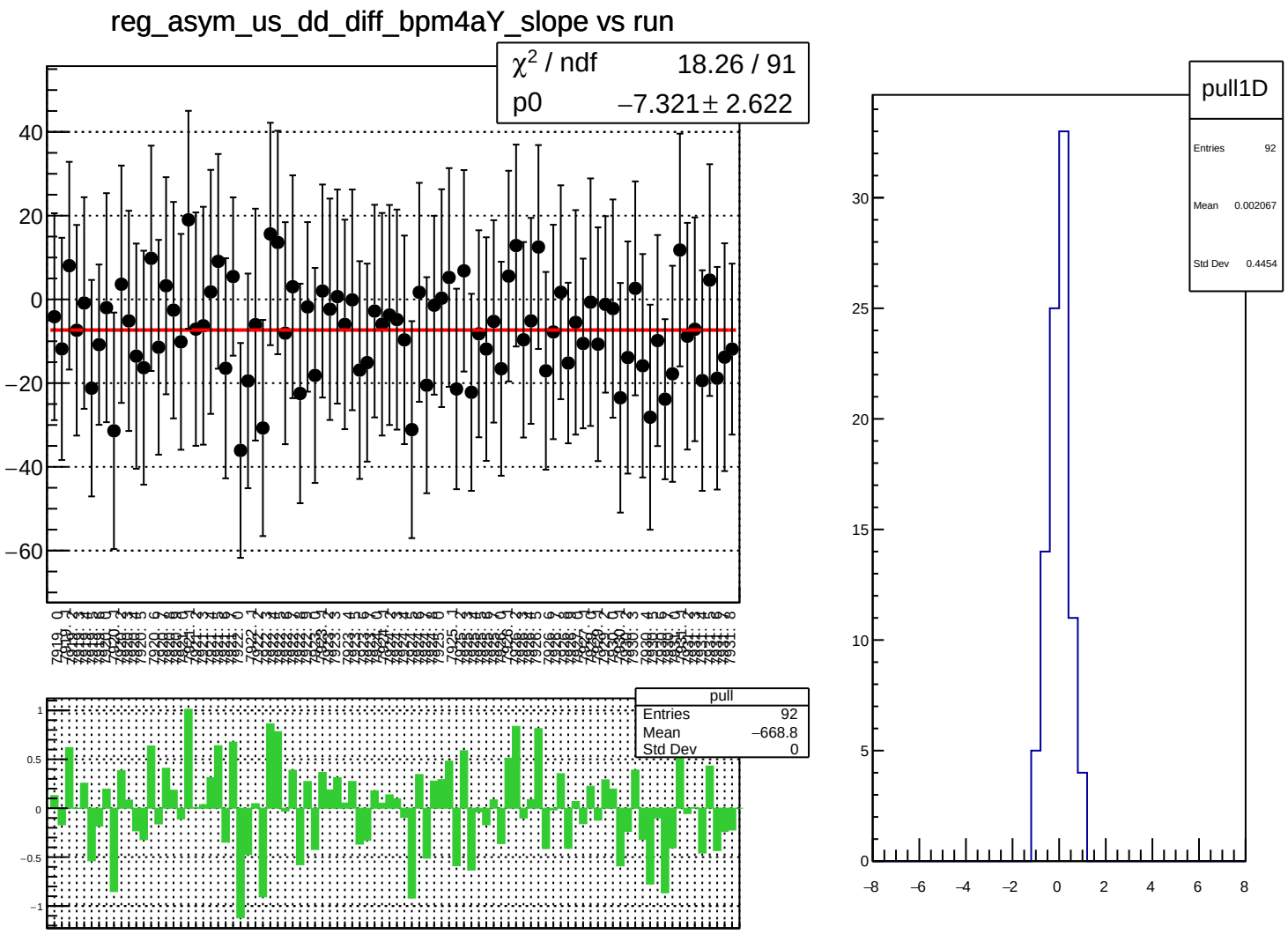

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 21.6 / 91
p0 4.243 ± 3.117
pull
Entries 92
Mean 131.6
Std Dev 18.53

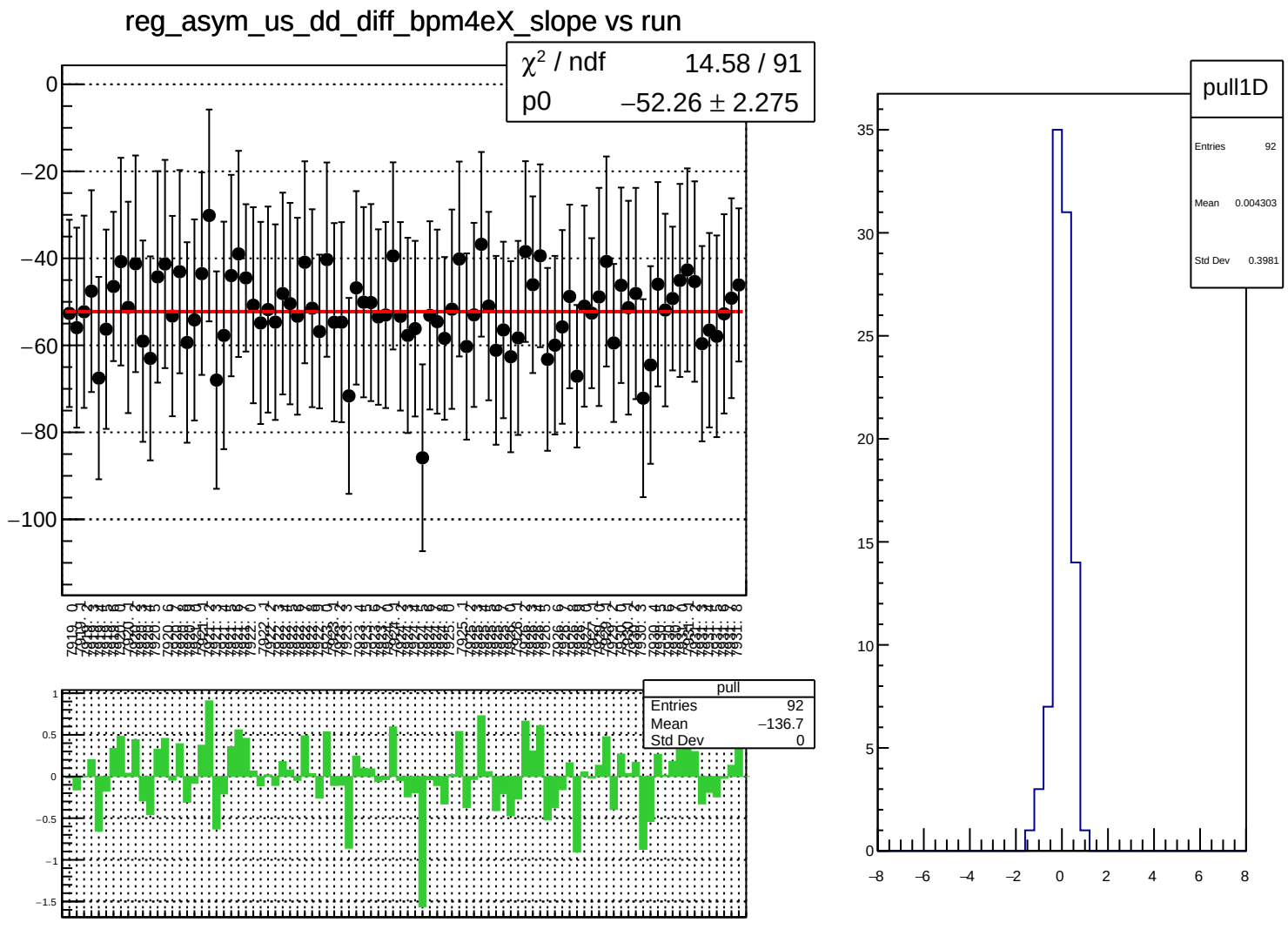

pull1D
Entries 92
Mean 0.002964
Std Dev 0.4846

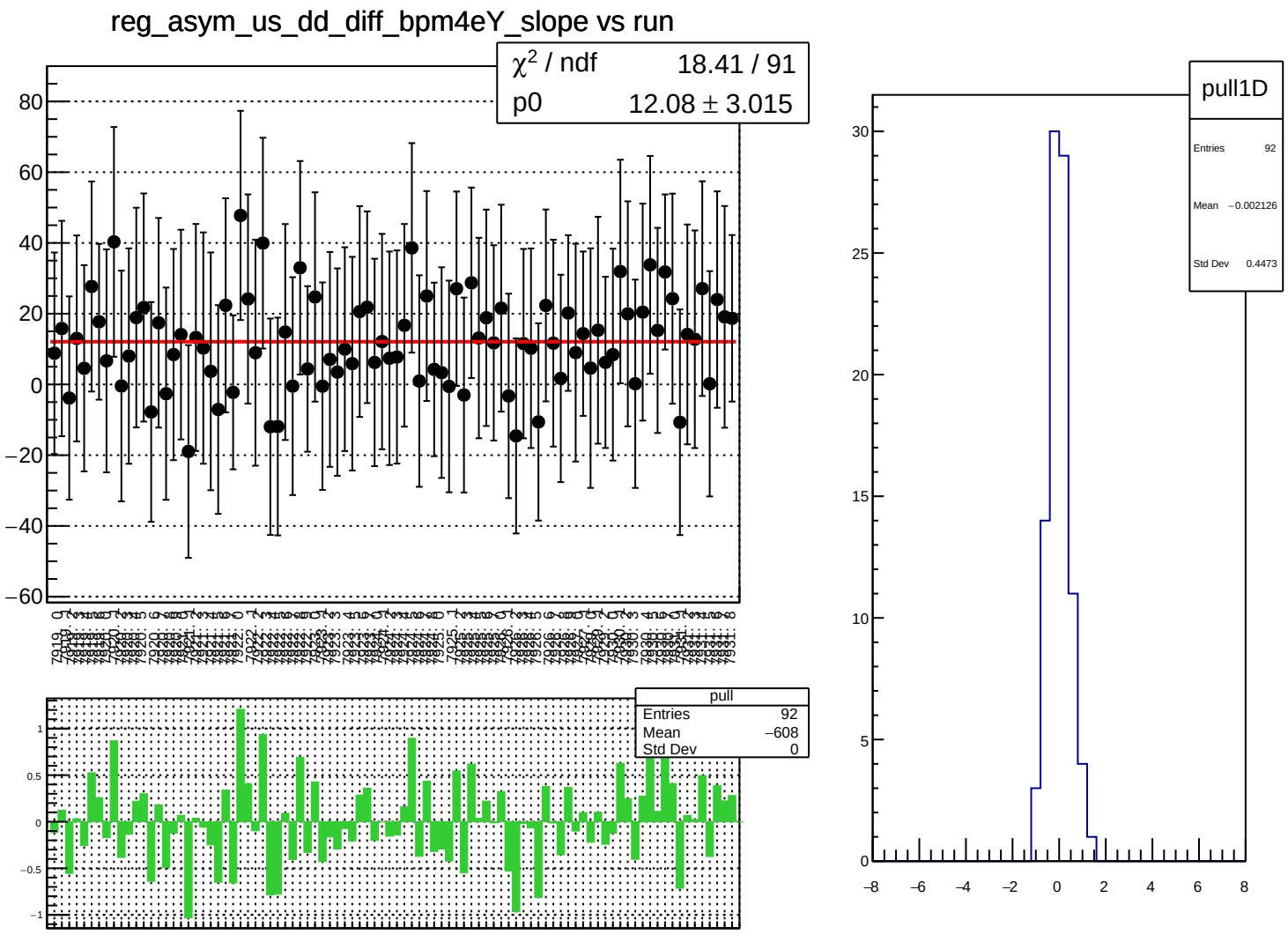

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 59.55 / 91
p0 −40.18 ± 0.0901
pull
Entries 92
Mean −317.7
Std Dev 0

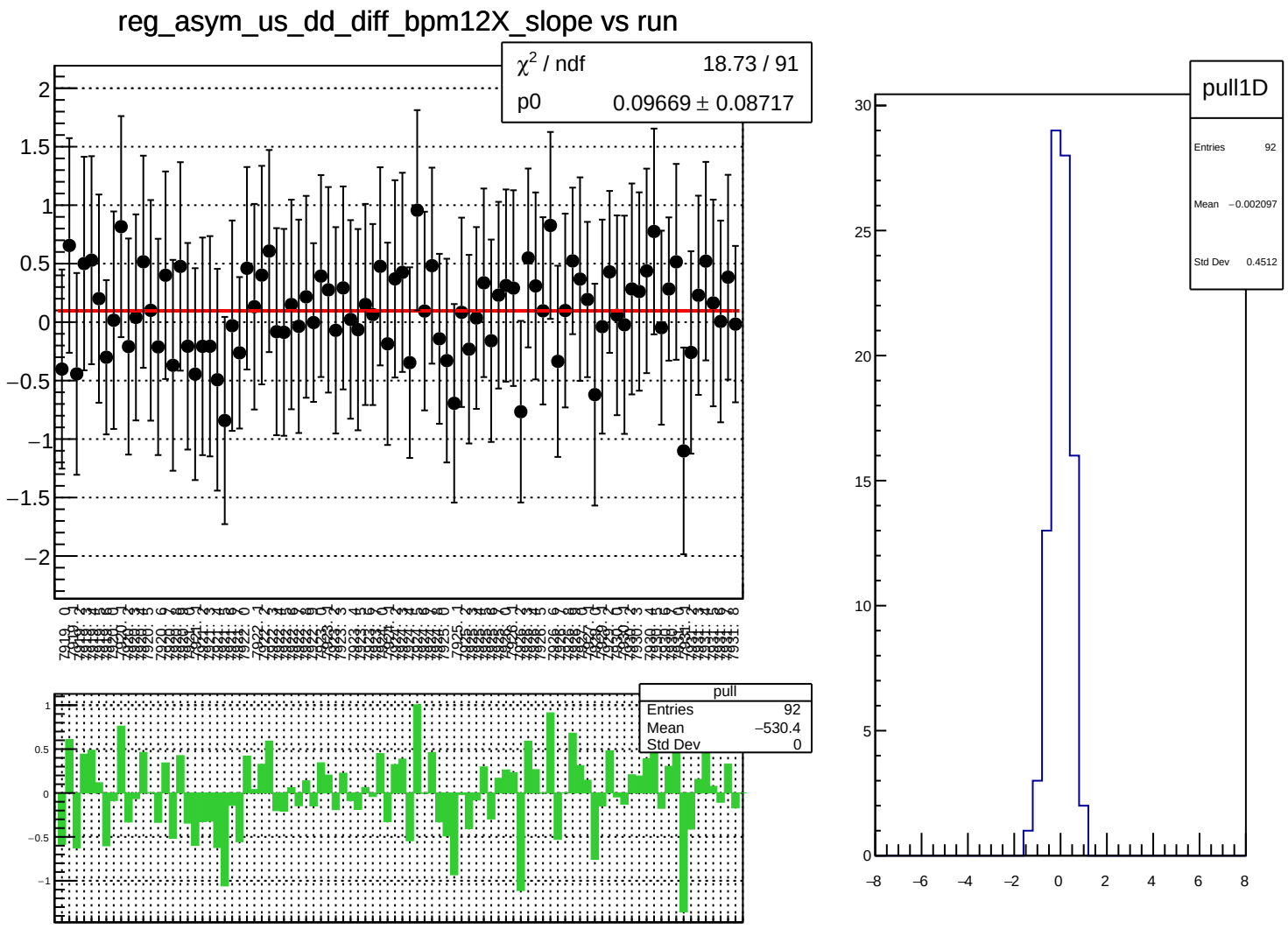

pull1D
Entries 92
Mean −0.02644
Std Dev 0.8041

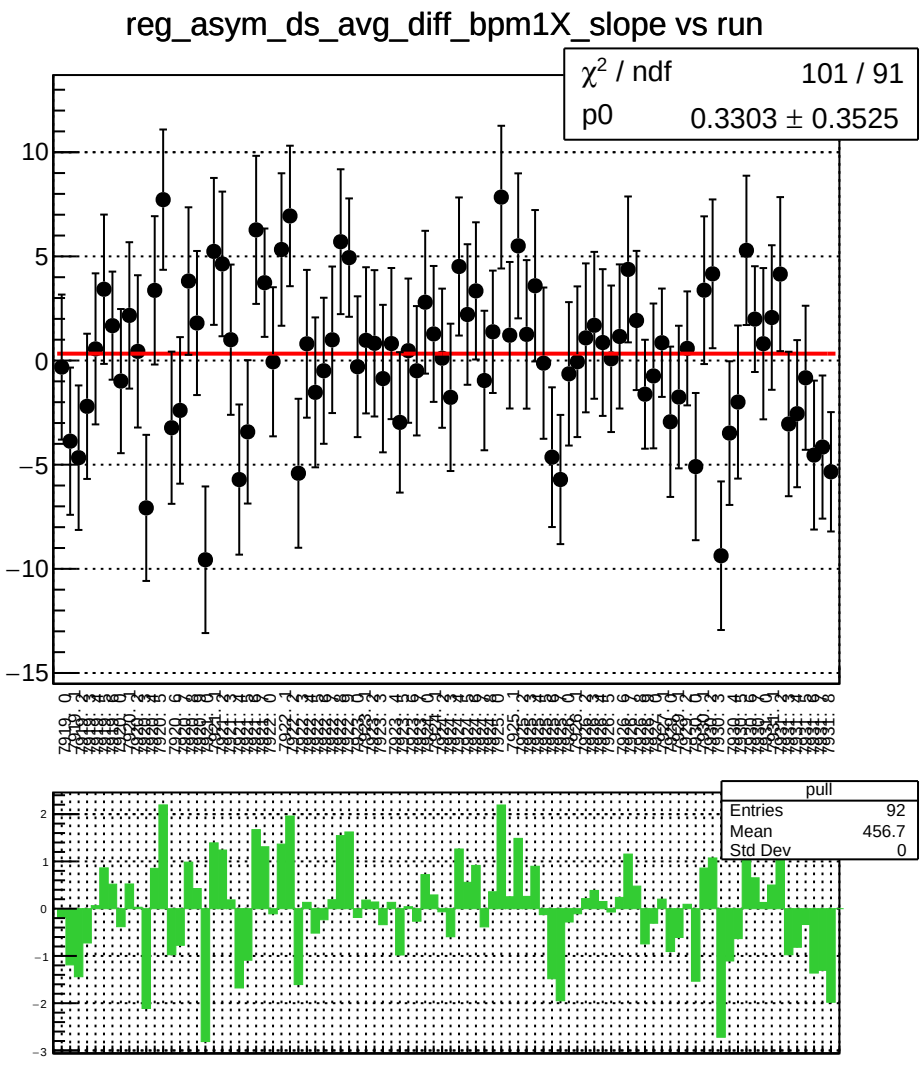

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 14.54 / 91
p0 −9.057 ± 2.543
pull
Entries 92
Mean −152.6
Std Dev 0
pull1D
Entries 92
Mean −0.004205
Std Dev 0.3976

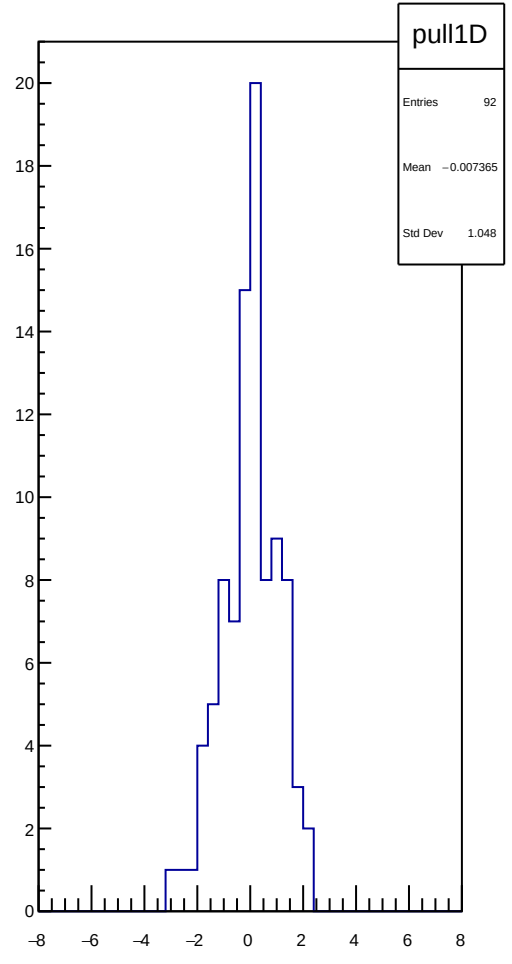

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 18.26 / 91
p0 −7.321 ± 2.622
pull
Entries 92
Mean −668.8
Std Dev 0
pull1D
Entries 92
Mean 0.002067
Std Dev 0.4454

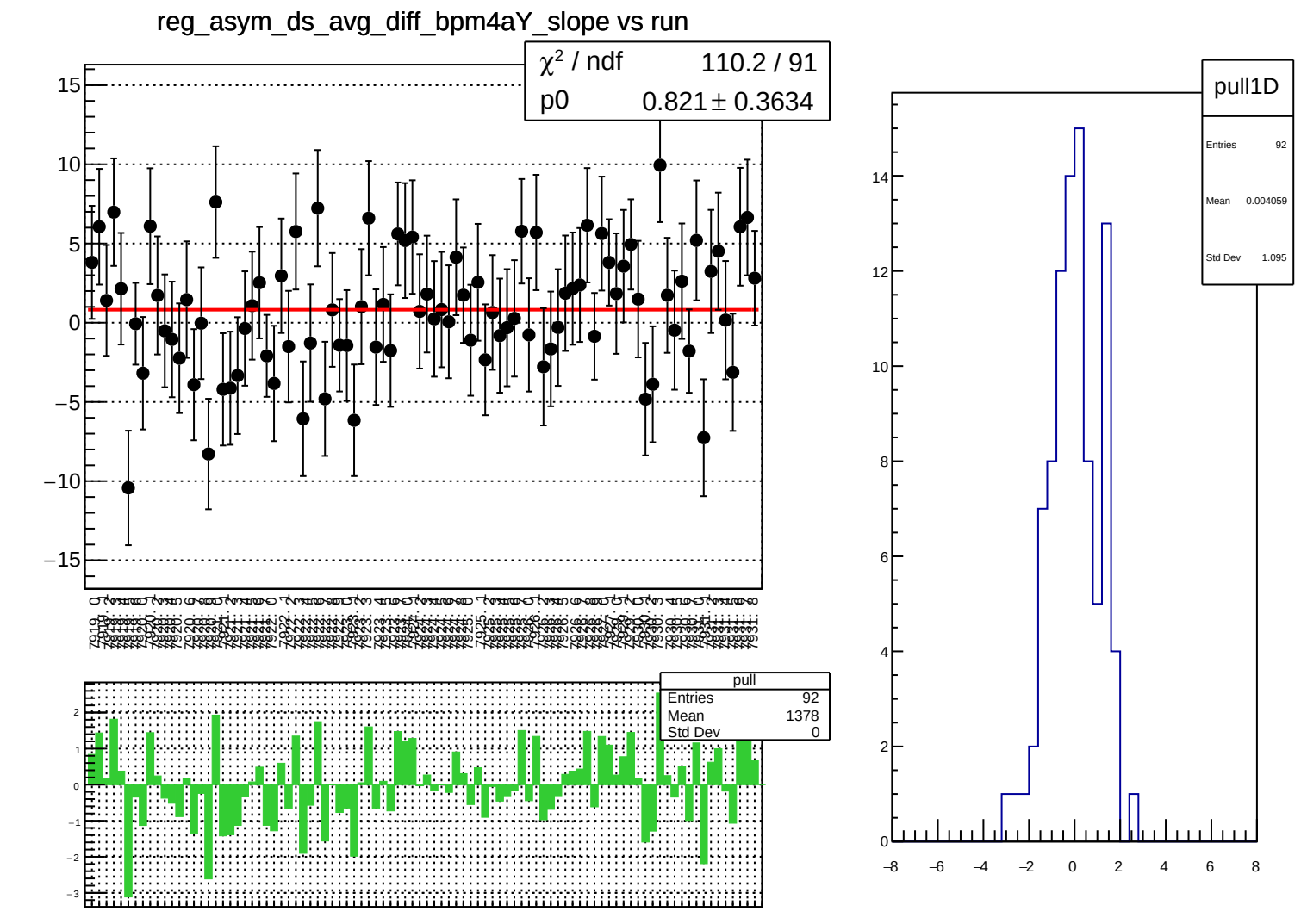

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 14.58 / 91
p0 −52.26 ± 2.275
pull
Entries 92
Mean −136.7
Std Dev 0
pull1D
Entries 92
Mean 0.004303
Std Dev 0.3981

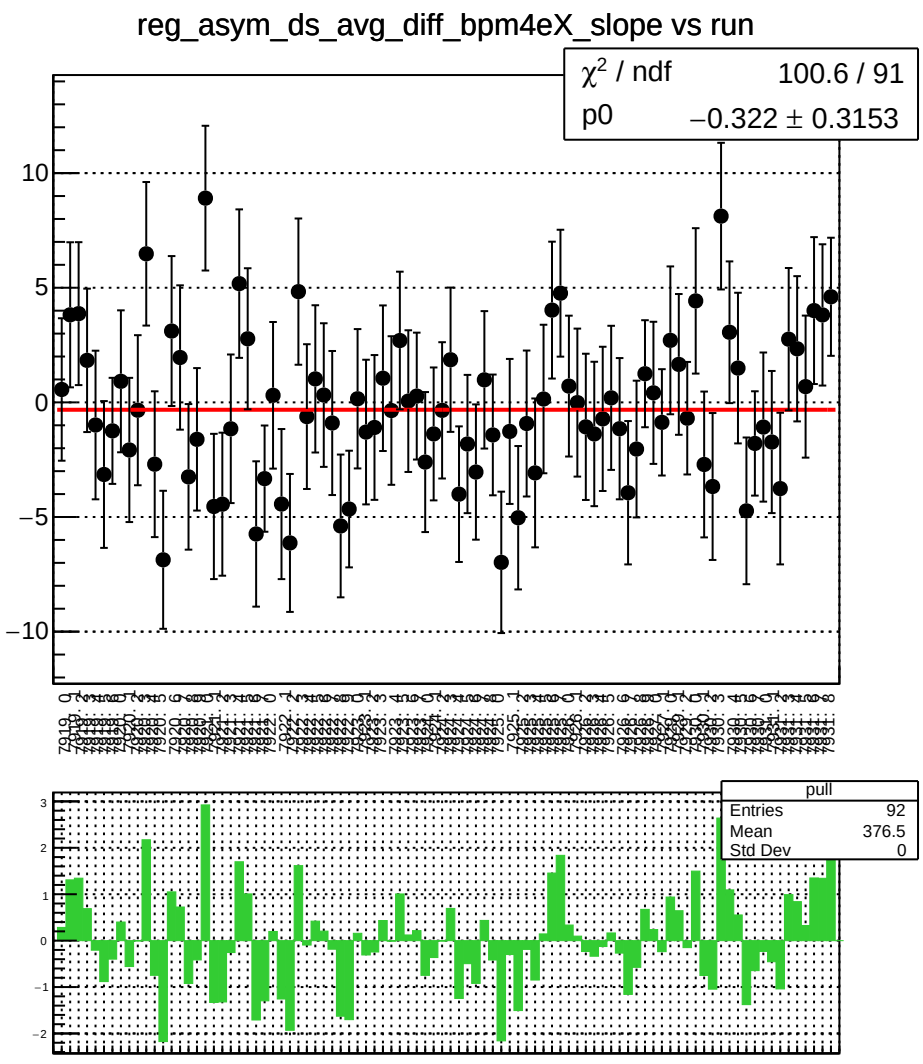

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 18.41 / 91
p0 12.08 ± 3.015
pull
Entries 92
Mean −608
Std Dev 0
pull1D
Entries 92
Mean −0.002126
Std Dev 0.4473

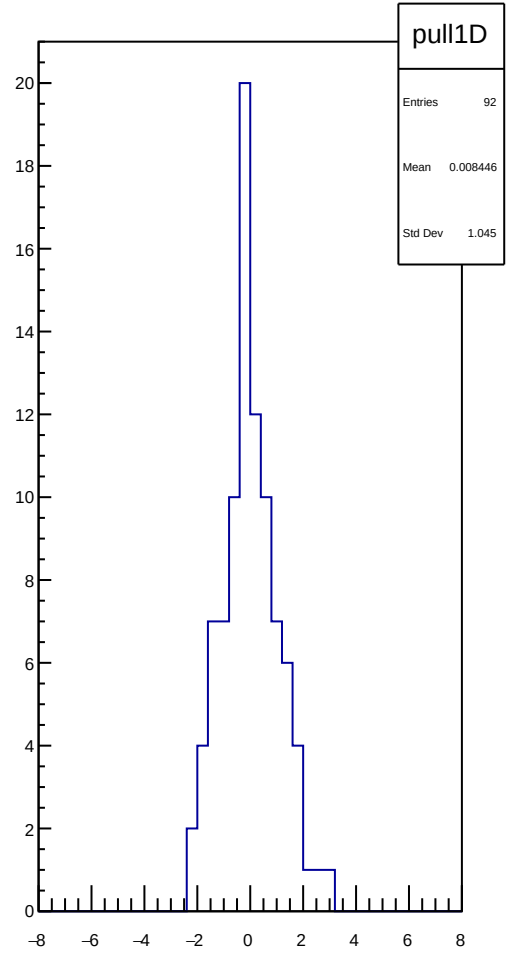

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 18.73 / 91
p0 0.09669 ± 0.08717
pull
Entries 92
Mean −530.4
Std Dev 0
pull1D
Entries 92
Mean −0.002097
Std Dev 0.4512

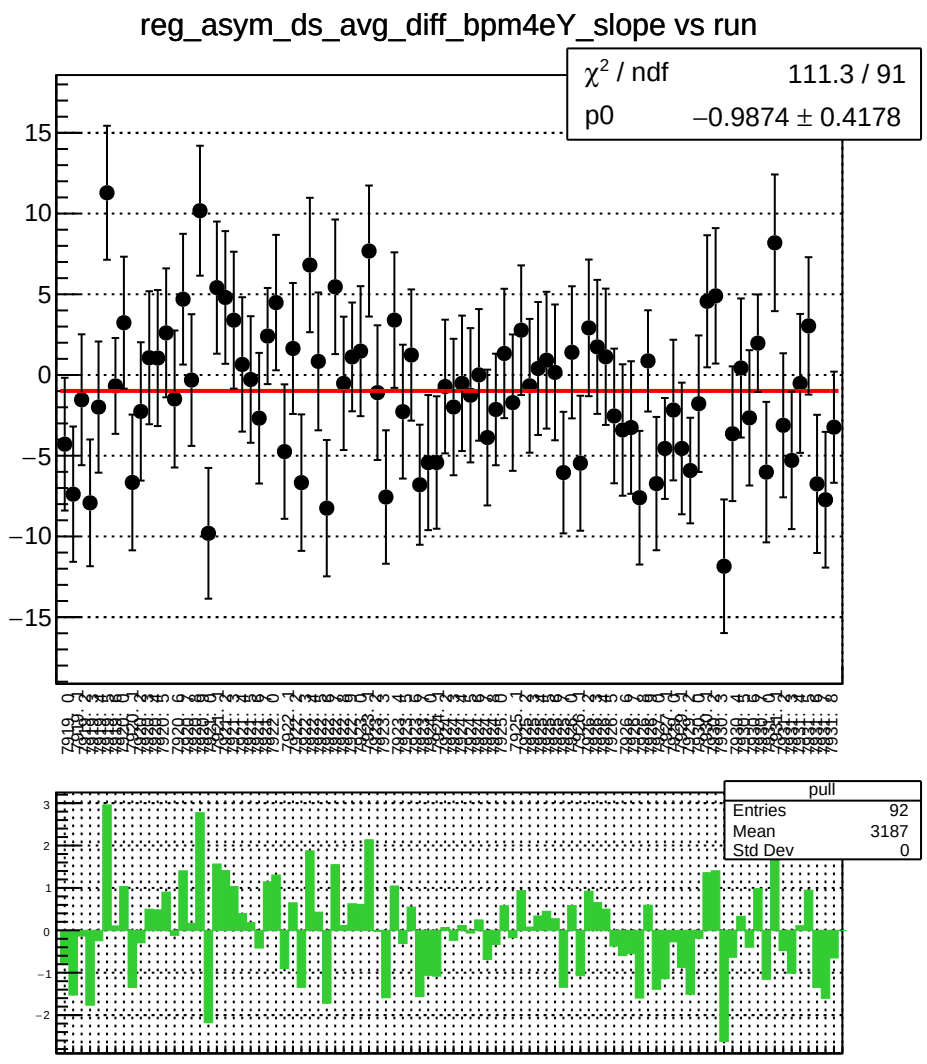

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 101 / 91
p0 0.3303 ± 0.3525
pull
Entries 92
Mean 456.7
Std Dev 0

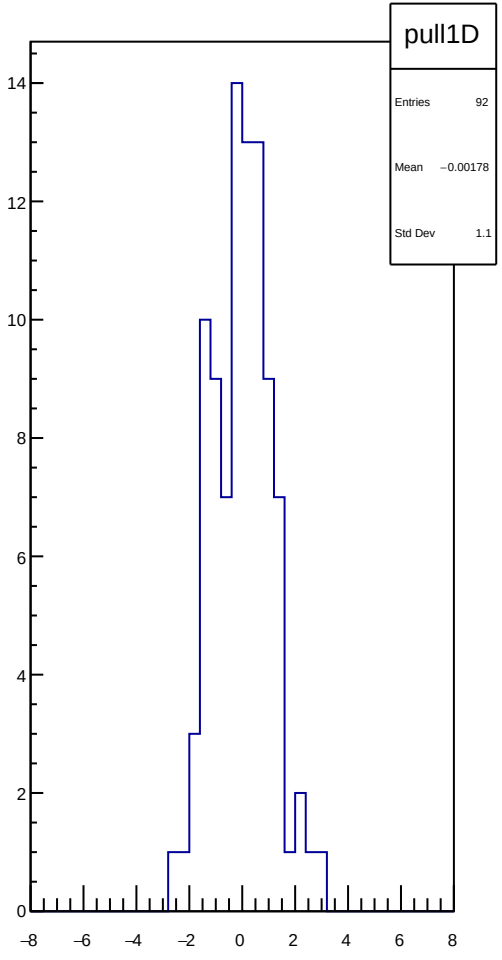

pull1D
Entries 92
Mean −0.007365
Std Dev 1.048

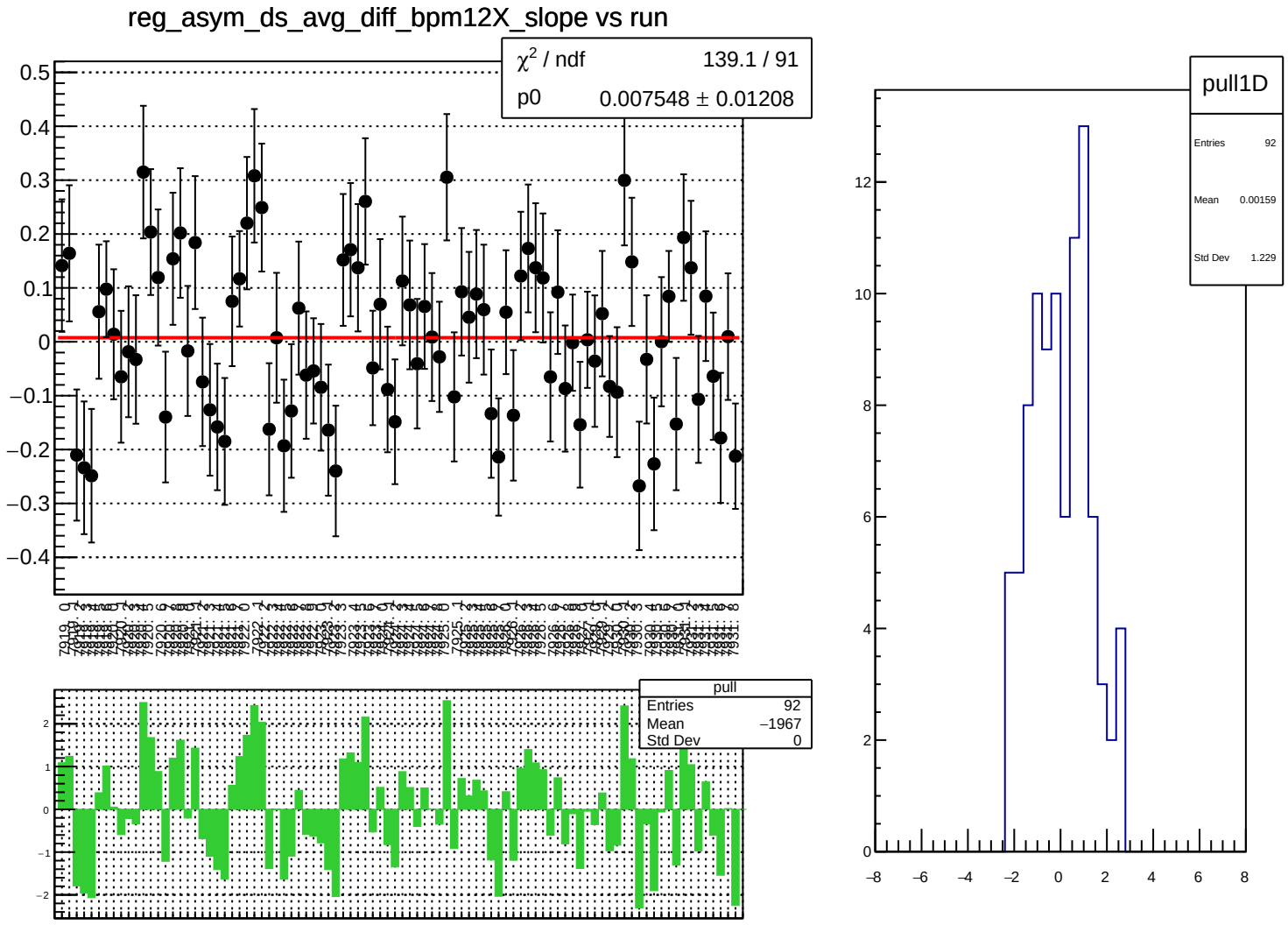

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 110.2 / 91
p0 0.821 ± 0.3634
pull
Entries 92
Mean 1378
Std Dev 0
pull1D
Entries 92
Mean 0.004059
Std Dev 1.095

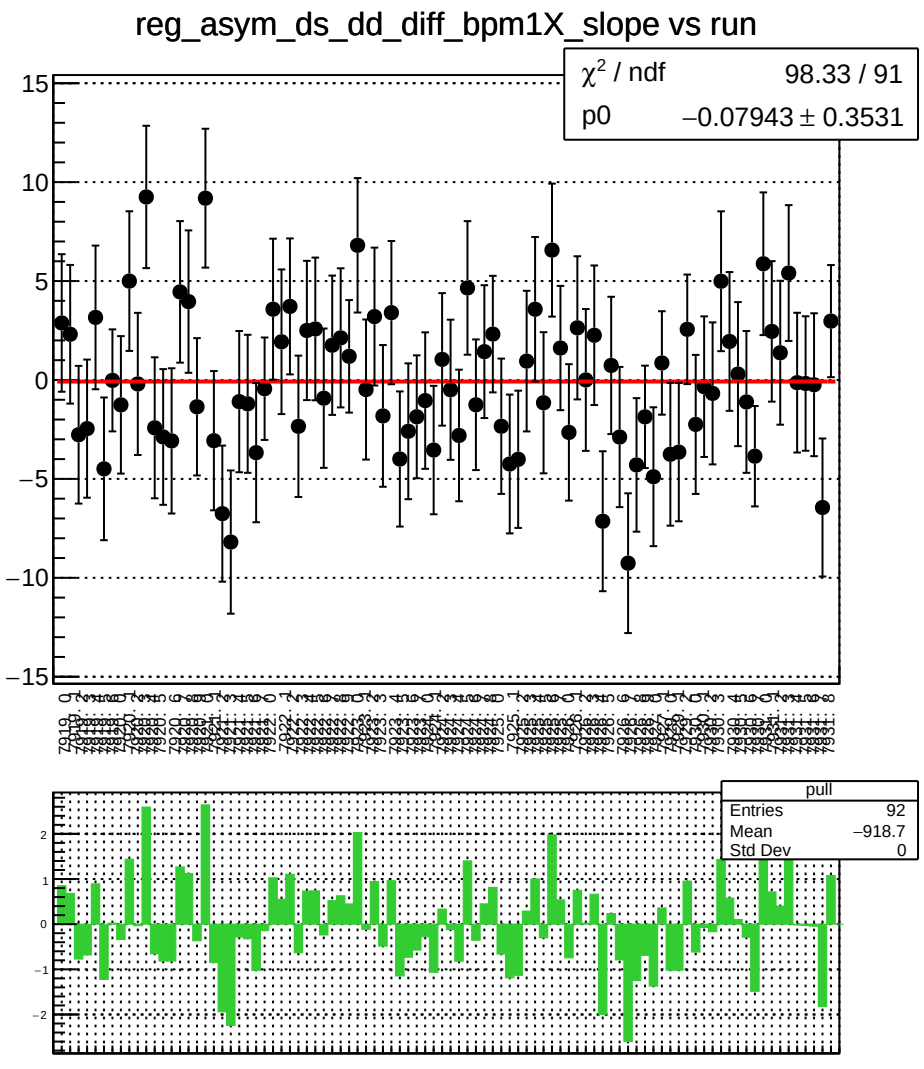

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 100.6 / 91
p0 −0.322 ± 0.3153
pull
Entries 92
Mean 376.5
Std Dev 0

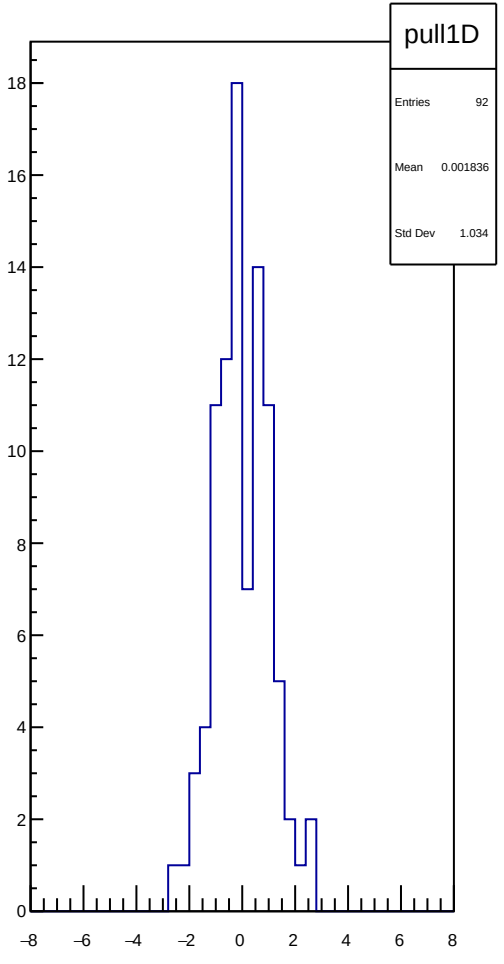

pull1D
Entries 92
Mean 0.008446
Std Dev 1.045

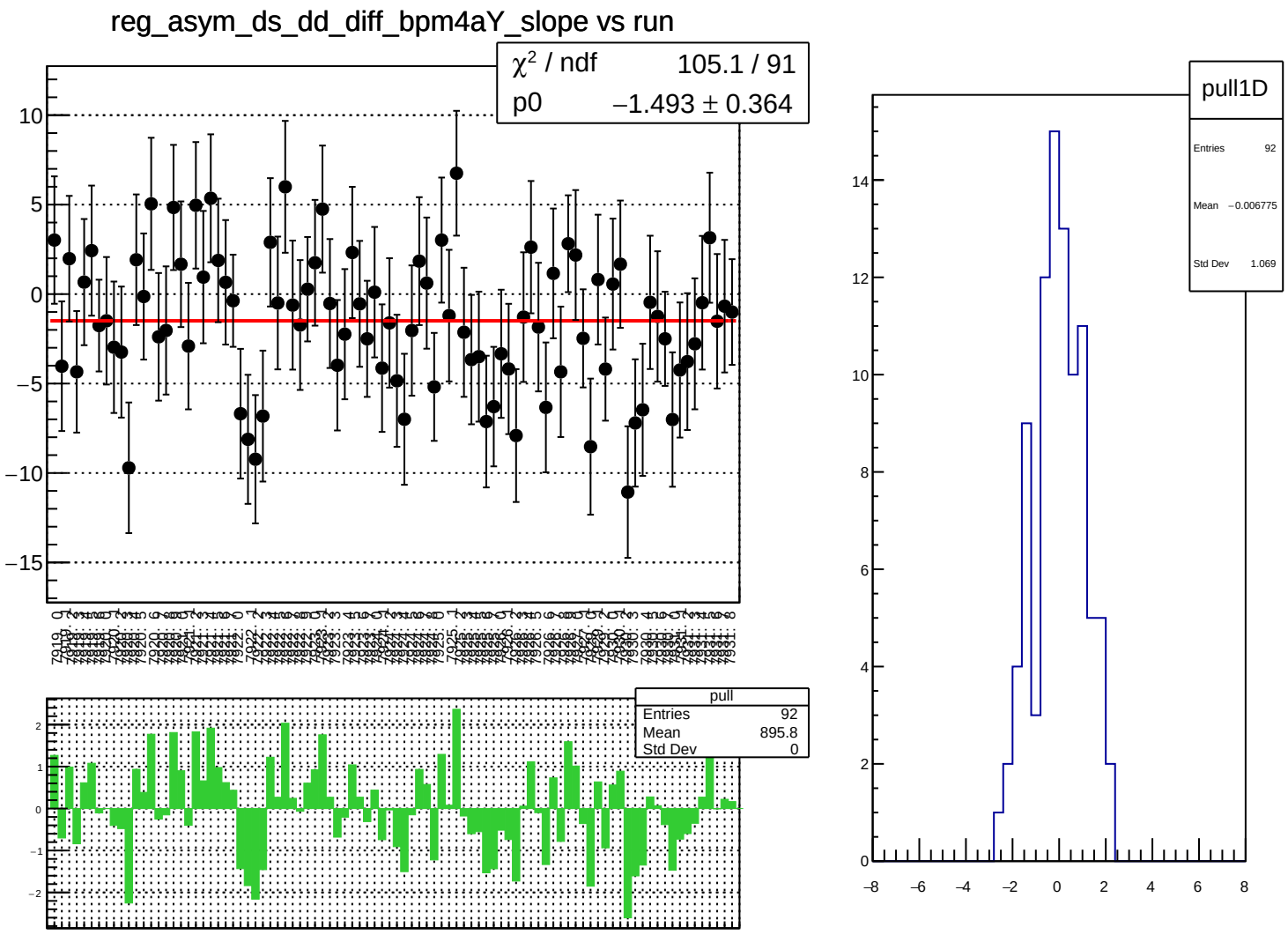

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 111.3 / 91
p0 −0.9874 ± 0.4178
pull
Entries 92
Mean 3187
Std Dev 0

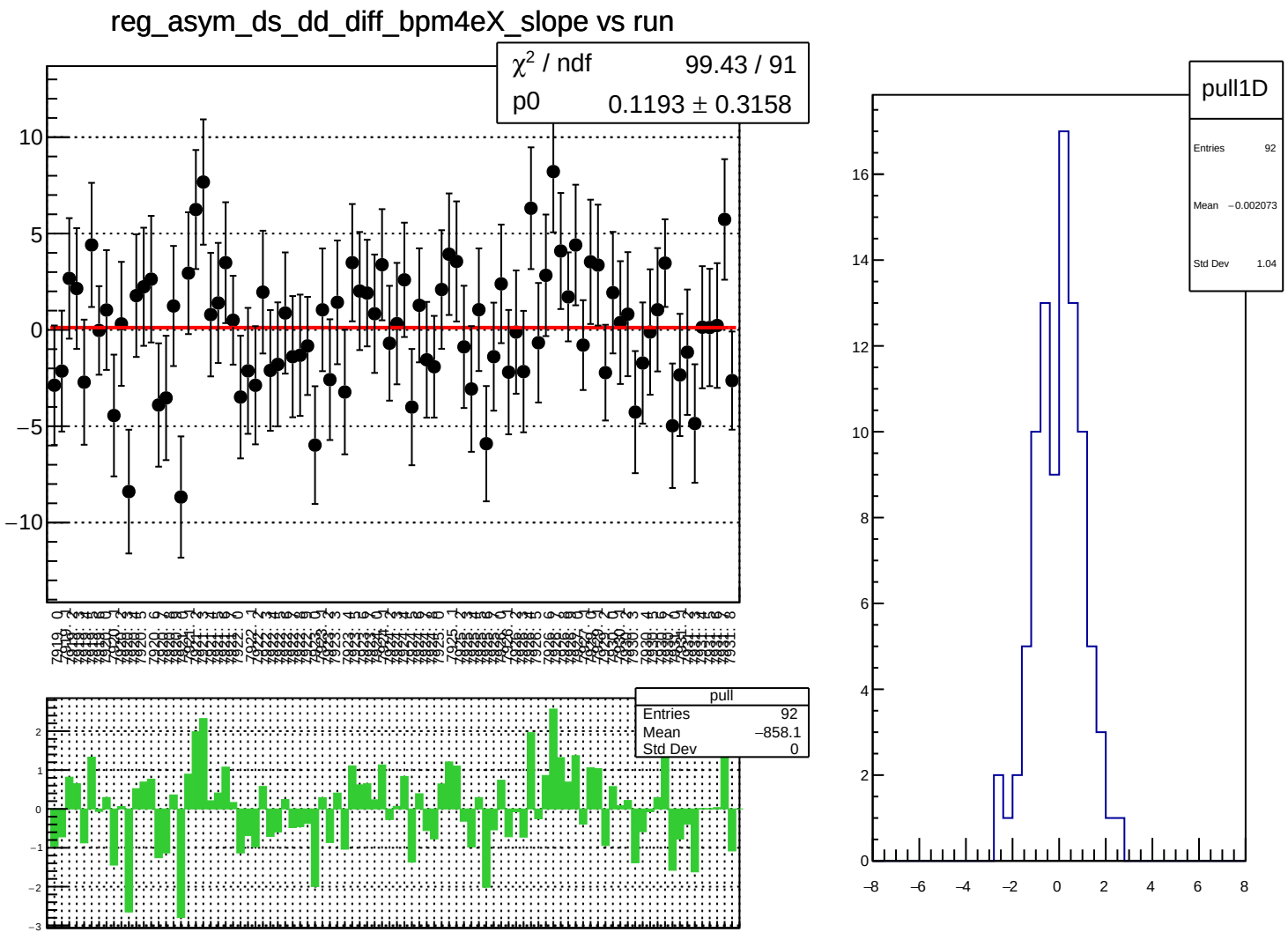

pull1D
Entries 92
Mean −0.00178
Std Dev 1.1

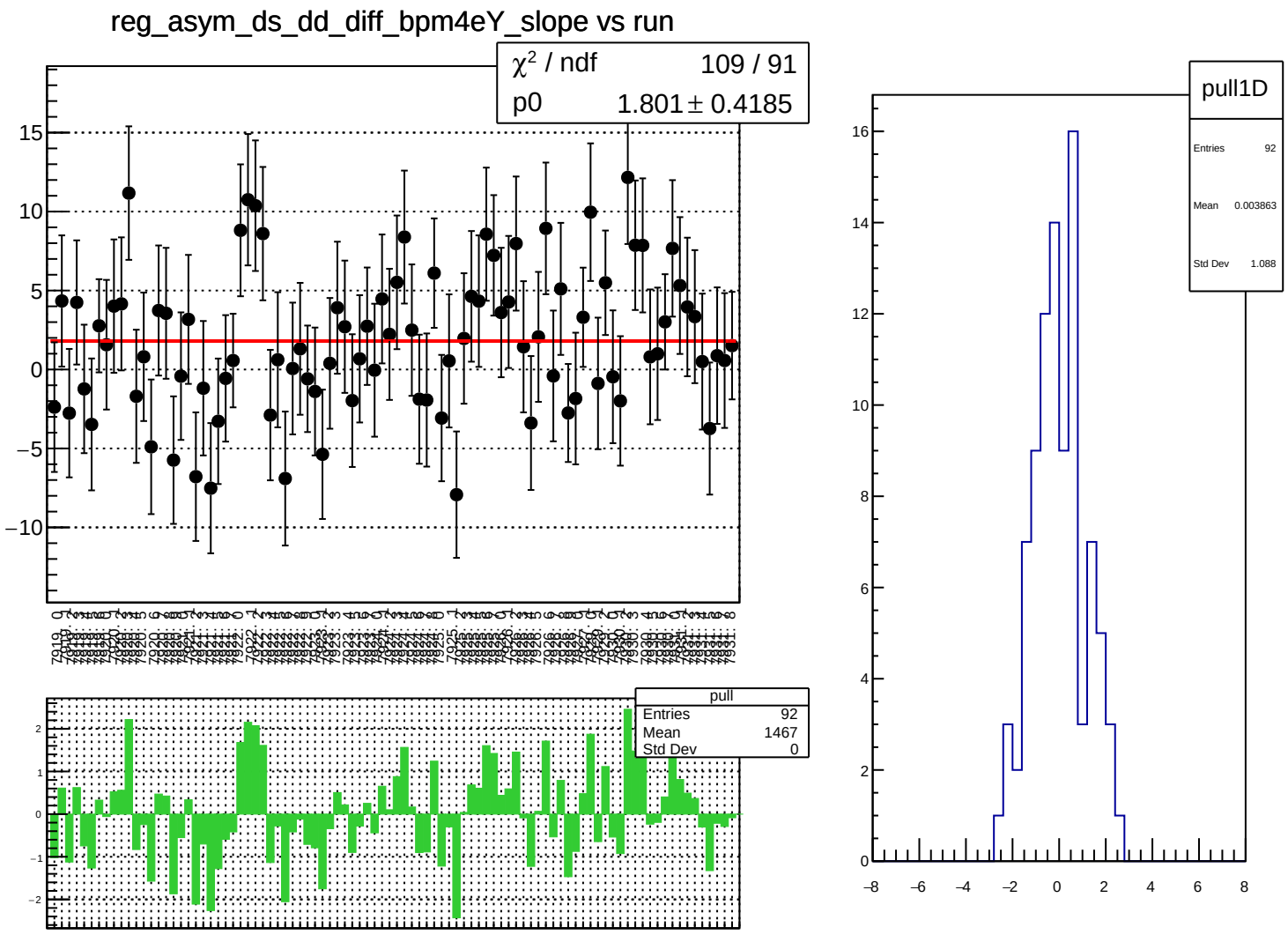

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 139.1 / 91
p0 0.007548 ± 0.01208
pull
Entries 92
Mean −1967
Std Dev 0
pull1D
Entries 92
Mean 0.00159
Std Dev 1.229

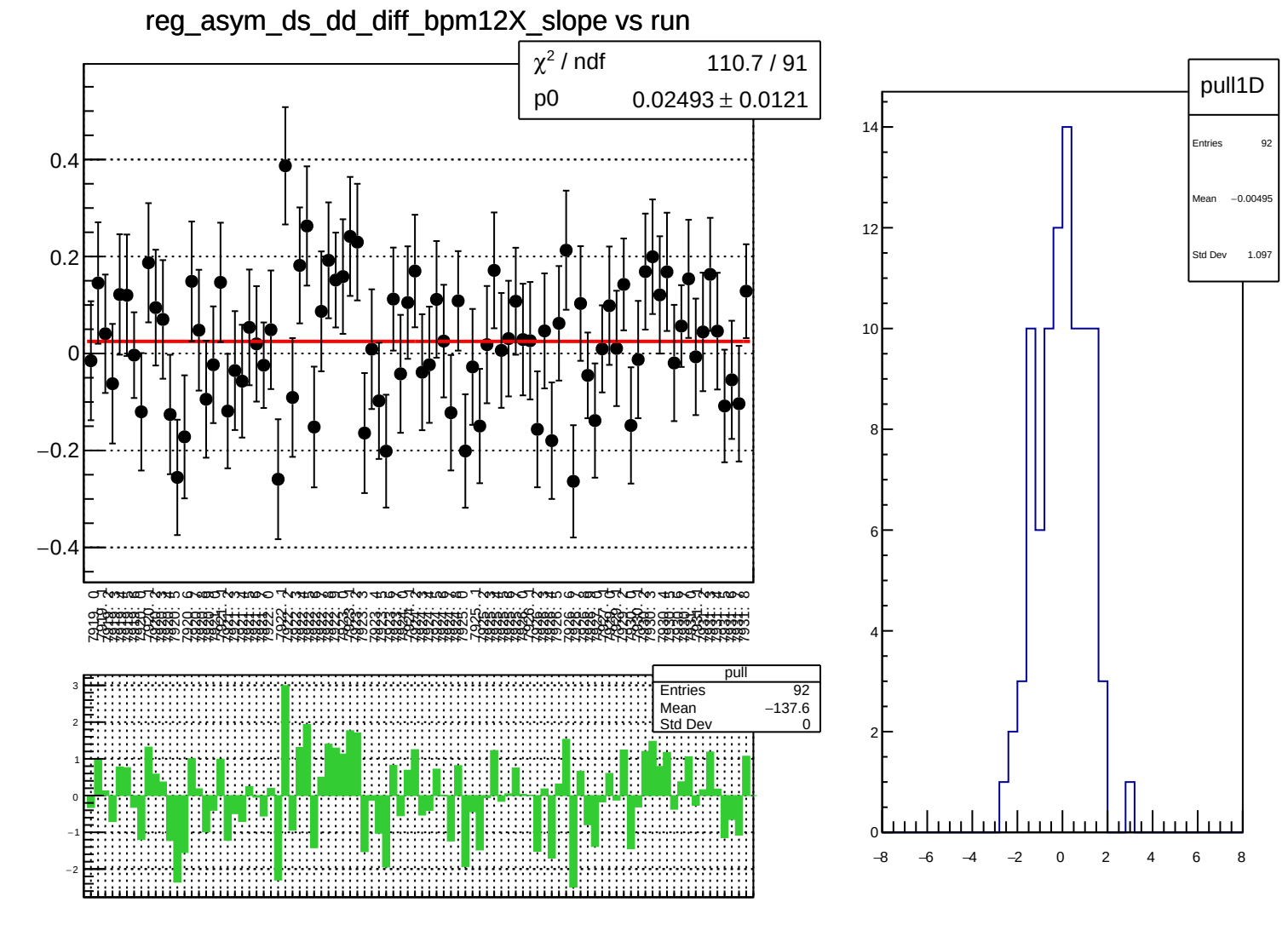

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 98.33 / 91
p0 −0.07943 ± 0.3531
pull
Entries 92
Mean −918.7
Std Dev 0

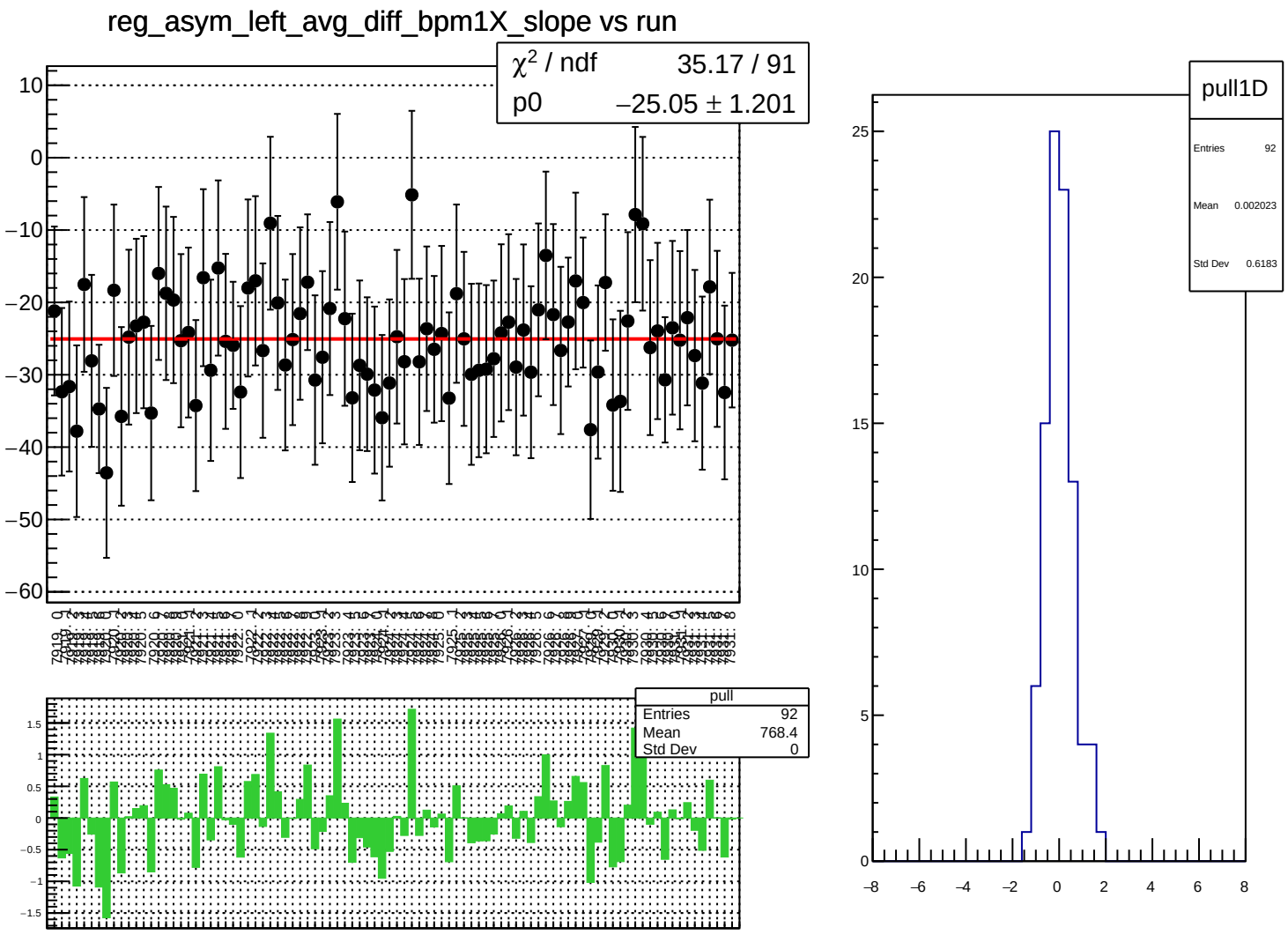

pull1D
Entries 92
Mean 0.001836
Std Dev 1.034

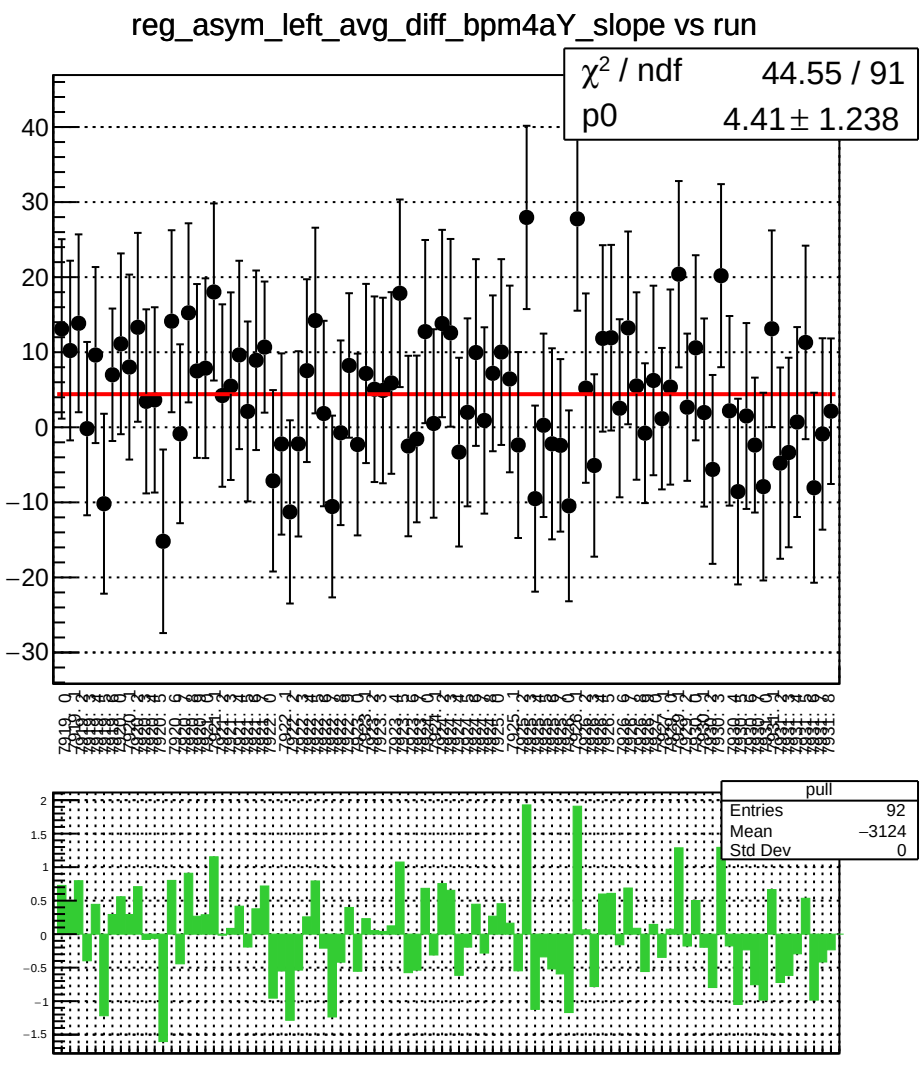

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 105.1 / 91
p0 −1.493 ± 0.364
pull
Entries 92
Mean 895.8
Std Dev 0
pull1D
Entries 92
Mean −0.006775
Std Dev 1.069

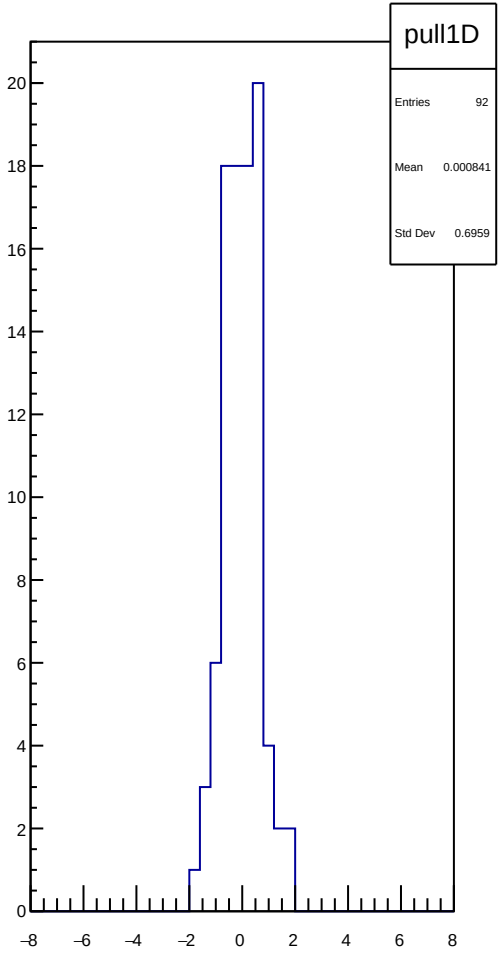

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 99.43 / 91
p0 0.1193 ± 0.3158
pull
Entries 92
Mean −858.1
Std Dev 0
pull1D
Entries 92
Mean −0.002073
Std Dev 1.04

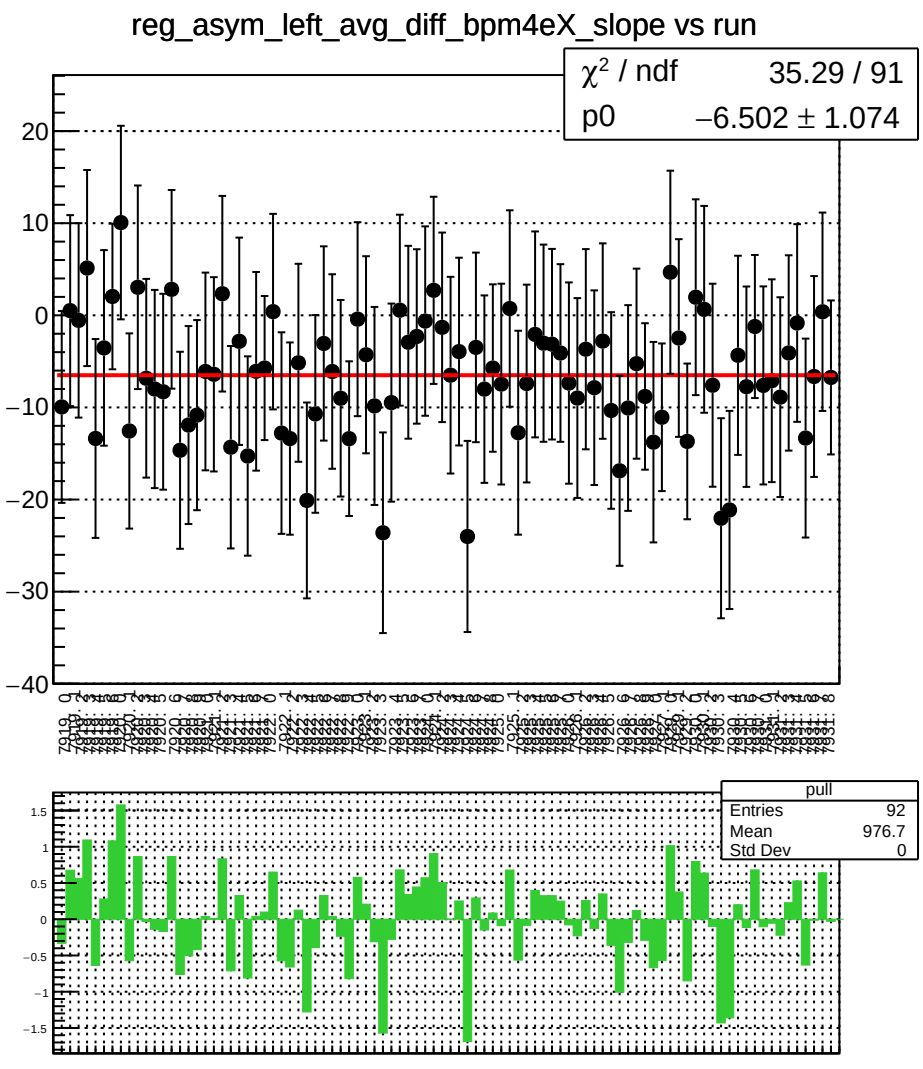

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 109 / 91
p0 1.801 ± 0.4185
pull
Entries 92
Mean 1467
Std Dev 0
pull1D
Entries 92
Mean 0.003863
Std Dev 1.088

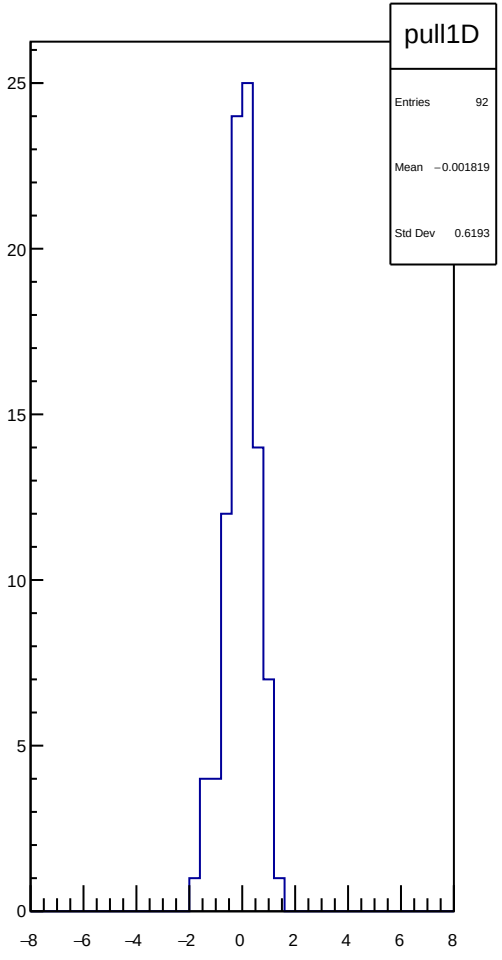

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ^2 / ndf 110.7 / 91
p0 0.02493 ± 0.0121
pull
Entries 92
Mean −137.6
Std Dev 0
pull1D
Entries 92
Mean −0.00495
Std Dev 1.097

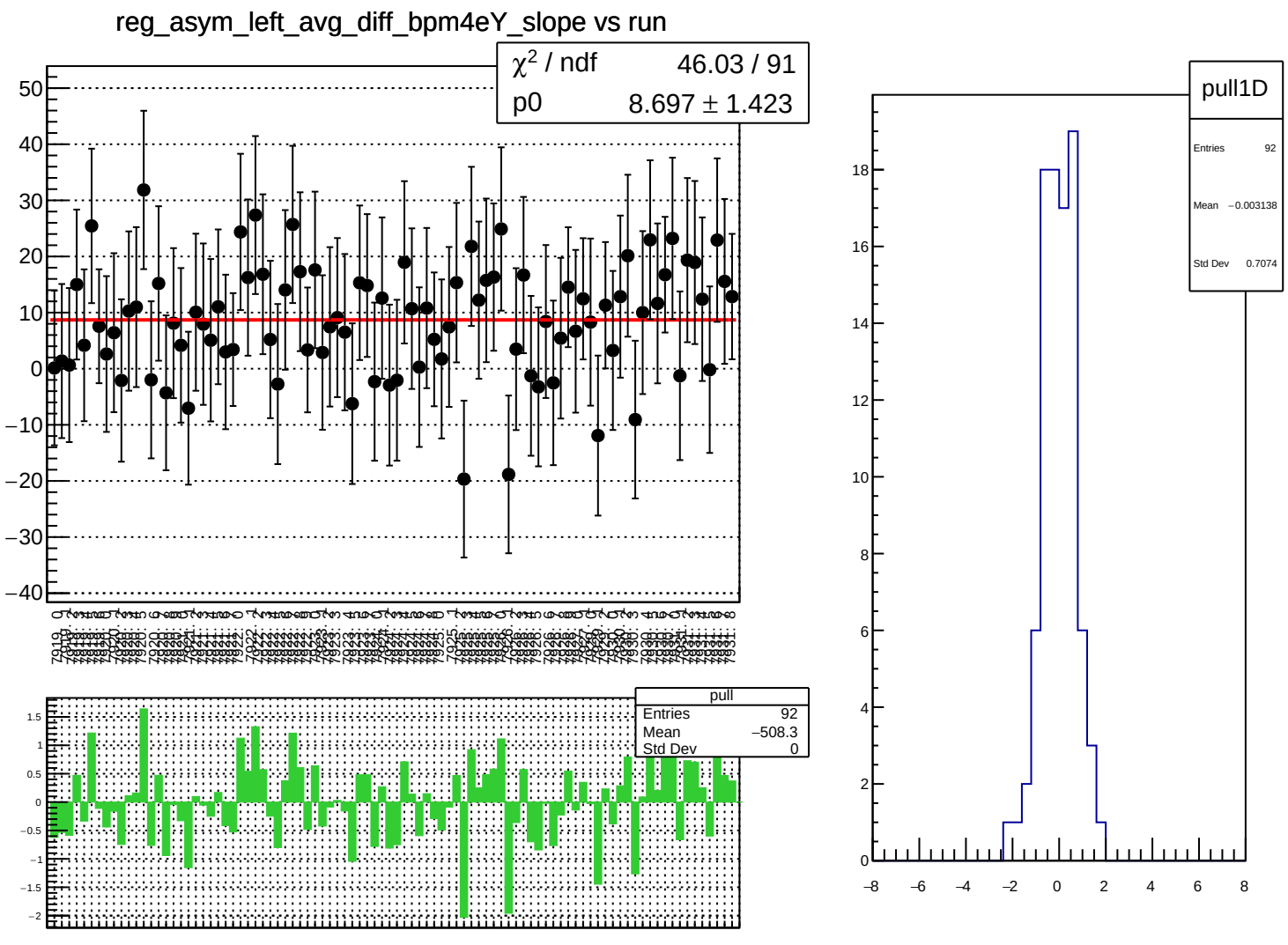

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 35.17 / 91
p0 −25.05 ± 1.201
pull
Entries 92
Mean 768.4
Std Dev 0
pull1D
Entries 92
Mean 0.002023
Std Dev 0.6183

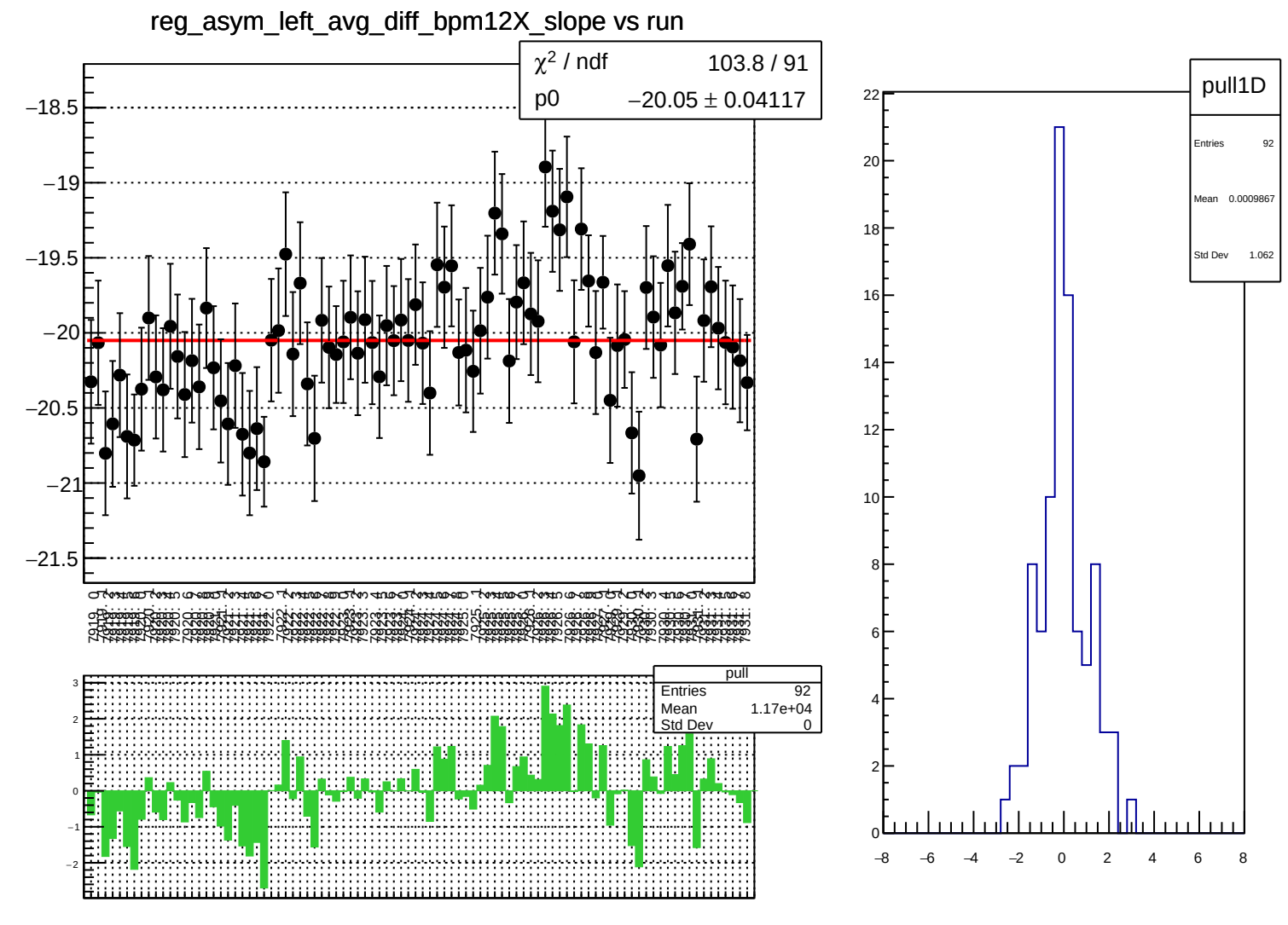

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 44.55 / 91
p0 4.41 ± 1.238
pull
Entries 92
Mean −3124
Std Dev 0

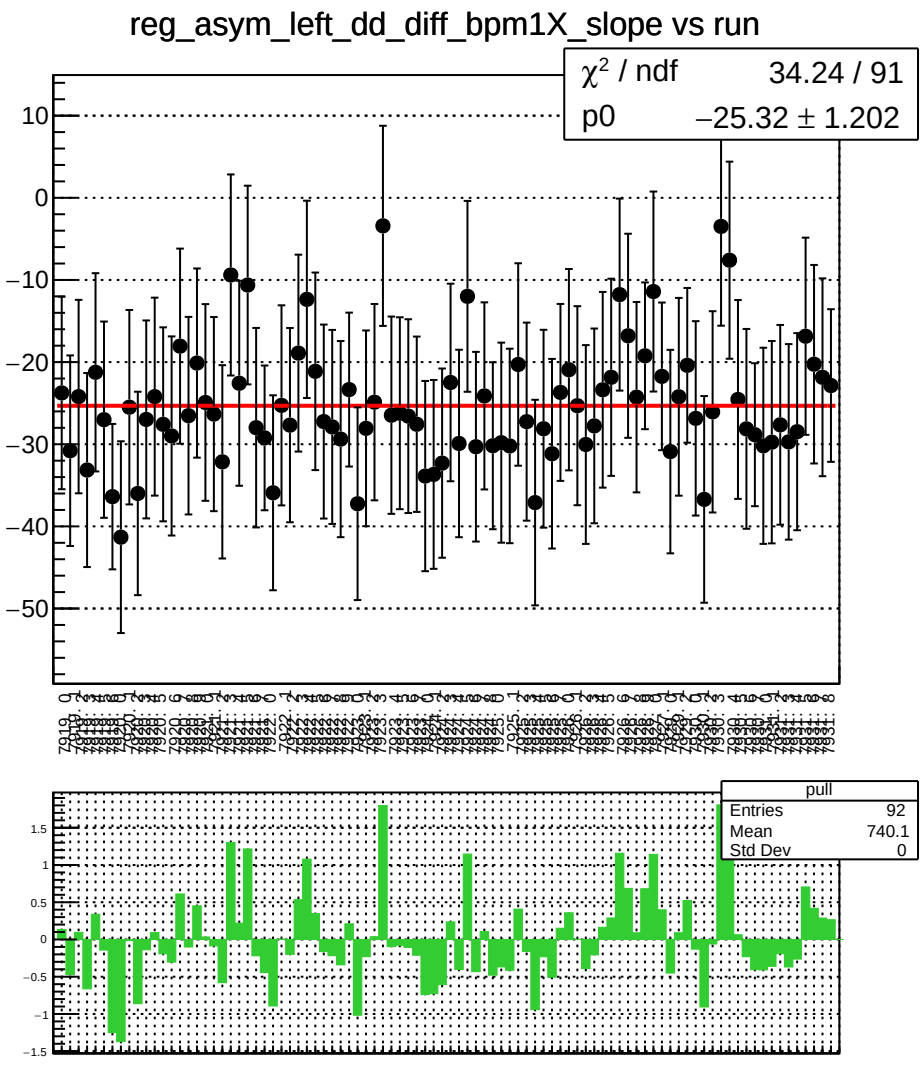

pull1D
Entries 92
Mean 0.000841
Std Dev 0.6959

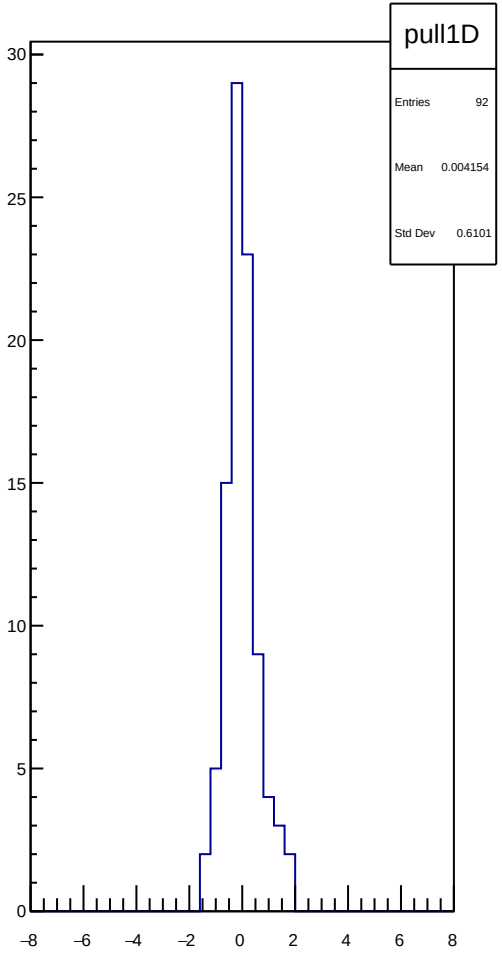

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 35.29 / 91
p0 −6.502 ± 1.074
pull
Entries 92
Mean 976.7
Std Dev 0

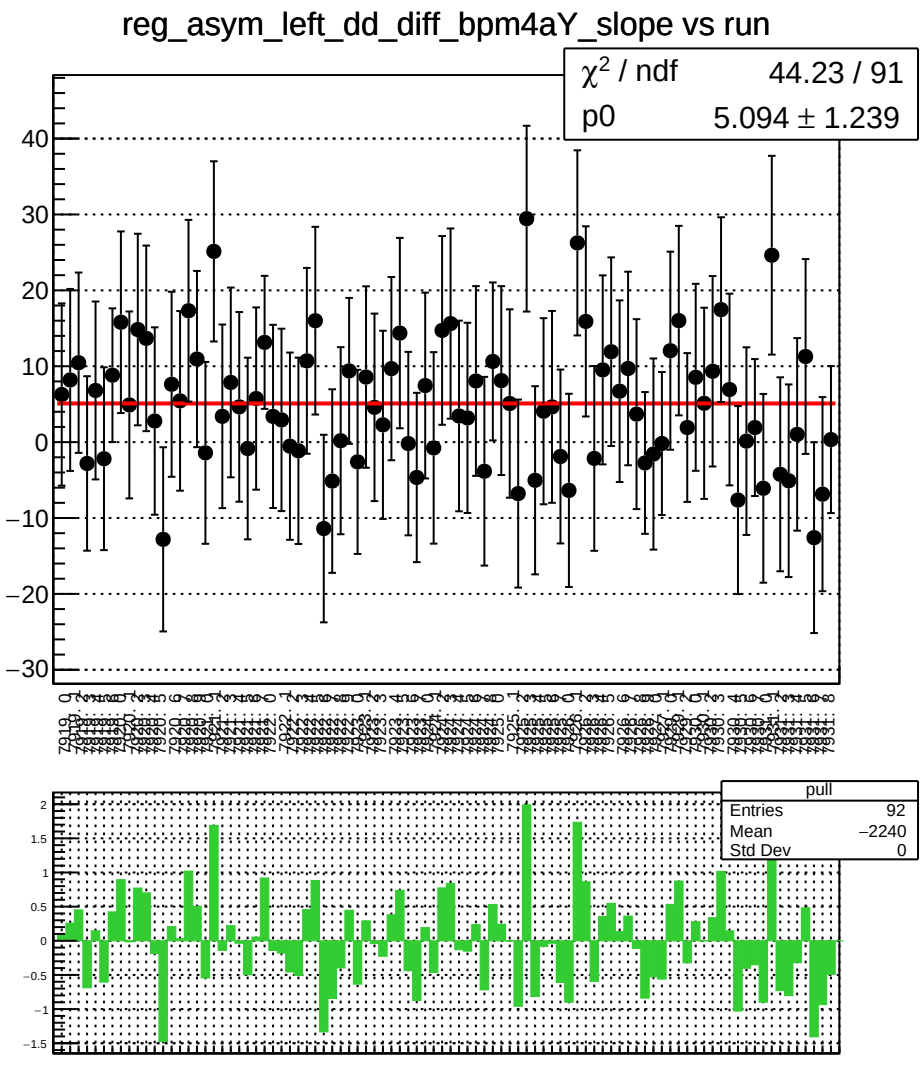

pull1D
Entries 92
Mean −0.001819
Std Dev 0.6193

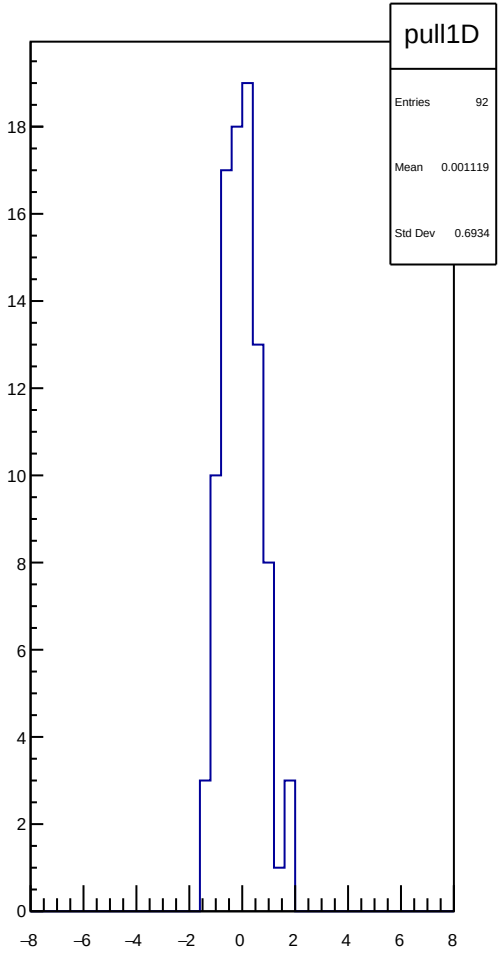

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 46.03 / 91
p0 8.697 ± 1.423
pull
Entries 92
Mean −508.3
Std Dev 0
pull1D
Entries 92
Mean −0.003138
Std Dev 0.7074

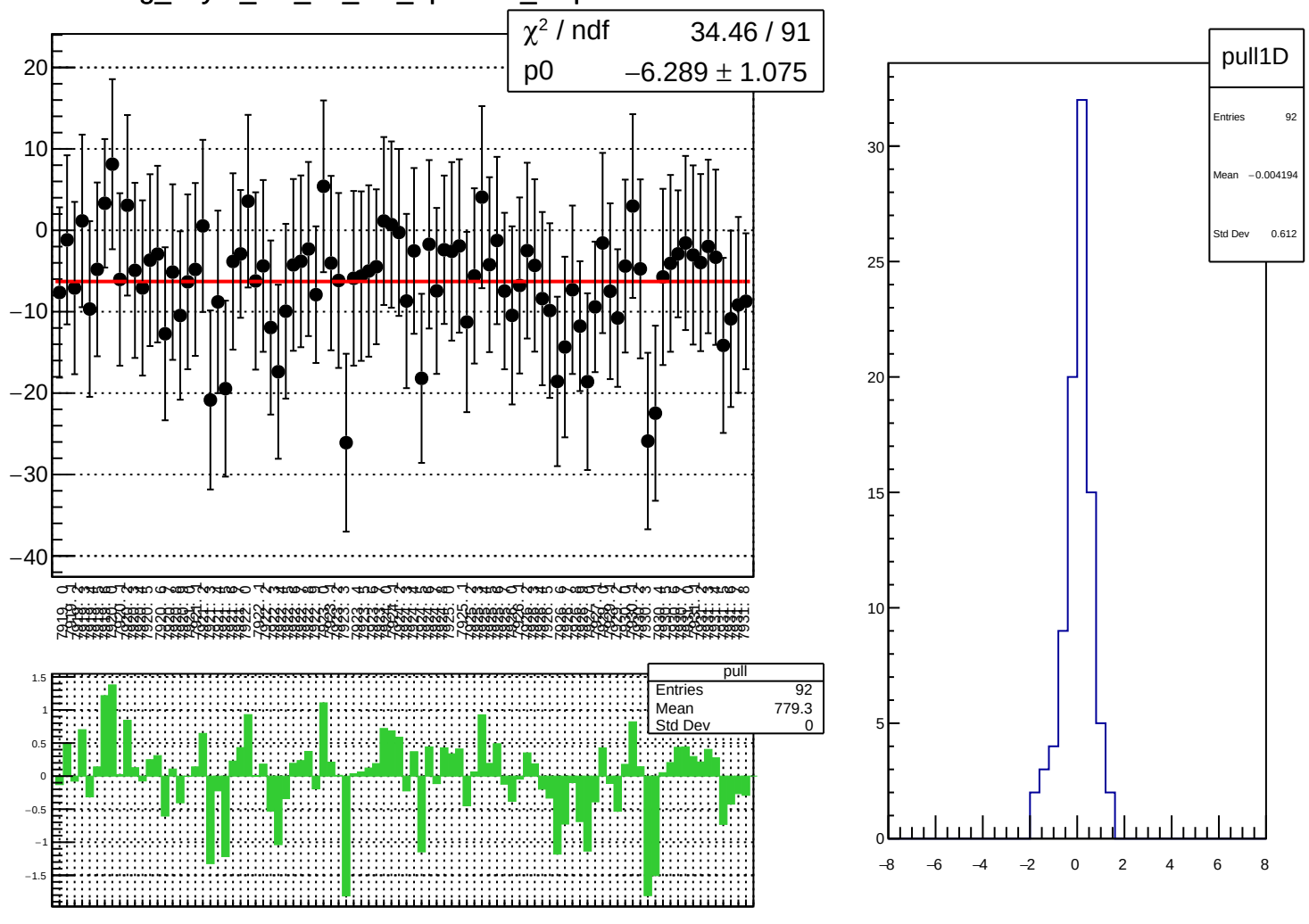

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 103.8 / 91
p0 −20.05 ± 0.04117
−18.5
−19
−19.5
−20
−20.5
−21
−21.5
pull
Entries 92
Mean 1.17e+04
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.0009867
Std Dev 1.062
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

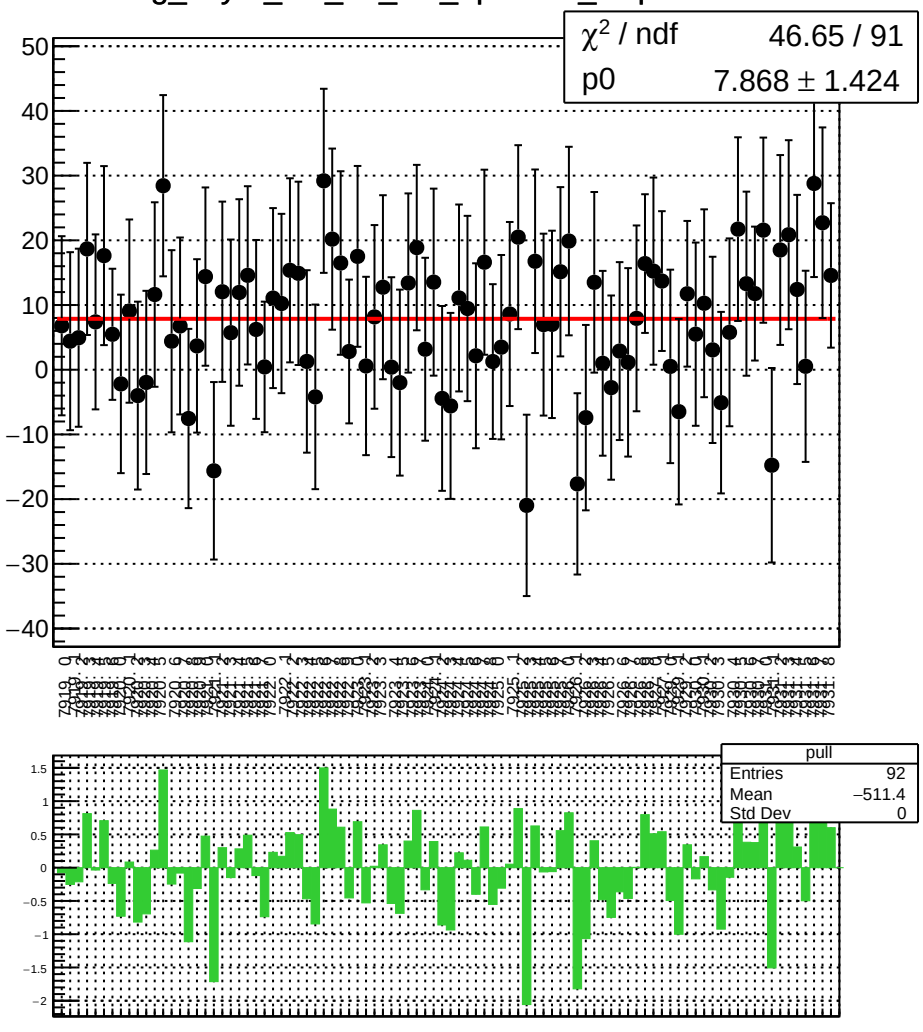

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 34.24 / 91
p0 −25.32 ± 1.202
pull
Entries 92
Mean 740.1
Std Dev 0

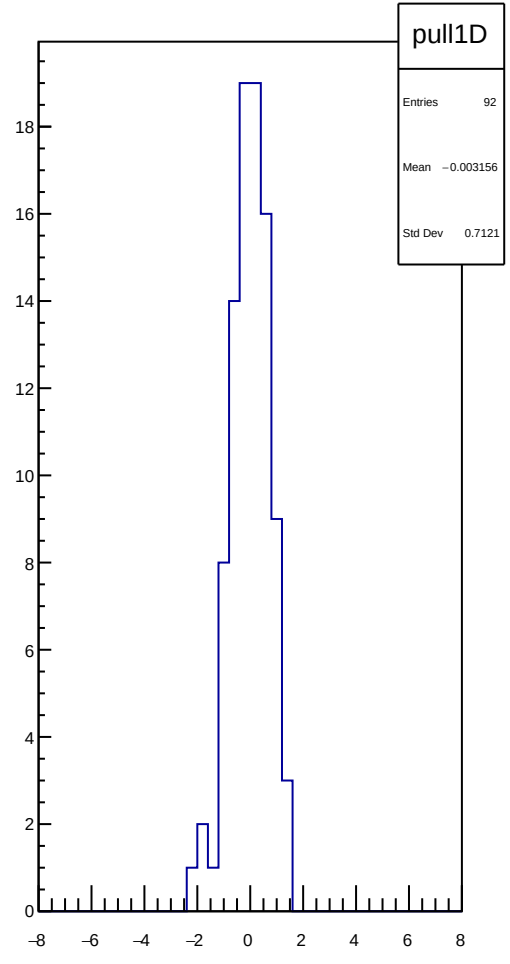

pull1D
Entries 92
Mean 0.004154
Std Dev 0.6101

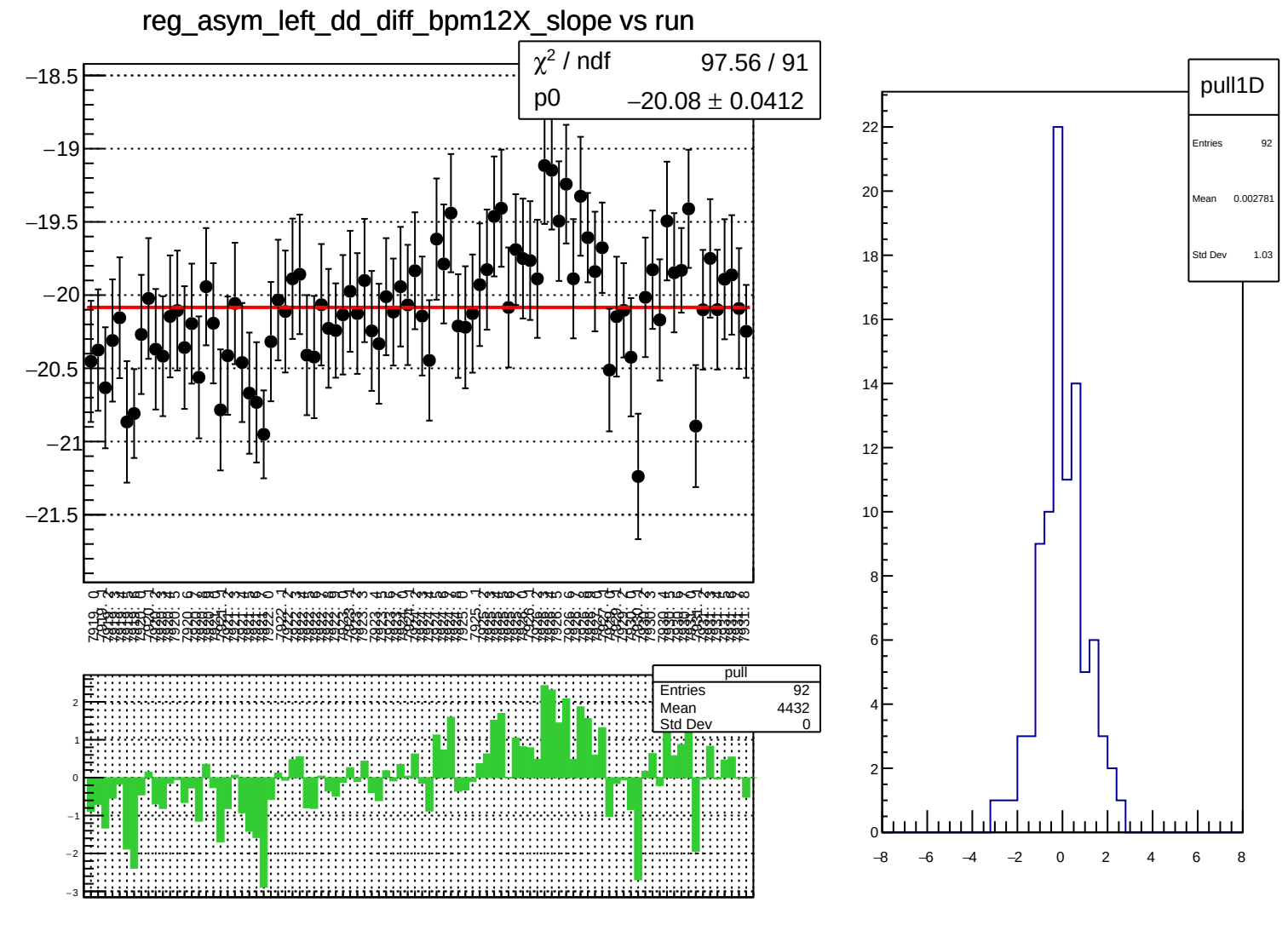

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ^2 / ndf 44.23 / 91
p0 5.094 ± 1.239
pull
Entries 92
Mean −2240
Std Dev 0

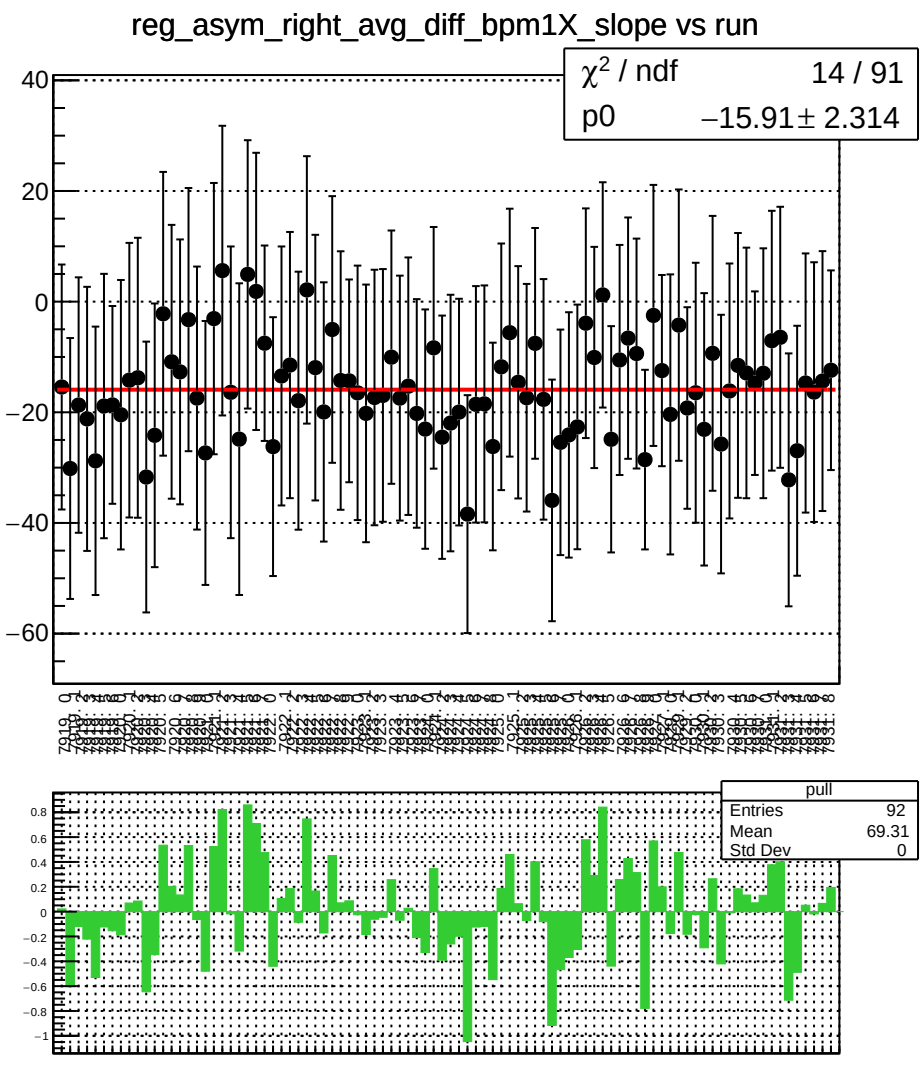

pull1D
Entries 92
Mean 0.001119
Std Dev 0.6934

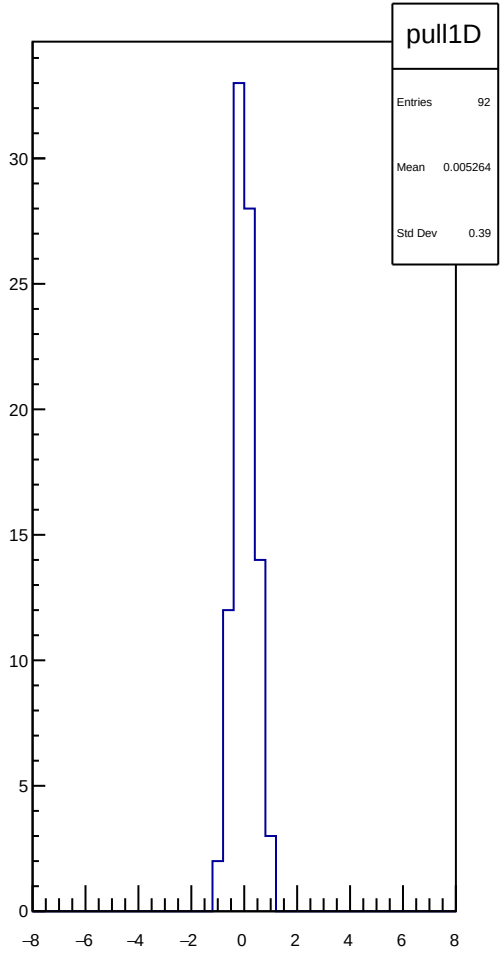

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 34.46 / 91
p0 −6.289 ± 1.075
pull
Entries 92
Mean 779.3
Std Dev 0
pull1D
Entries 92
Mean −0.004194
Std Dev 0.612

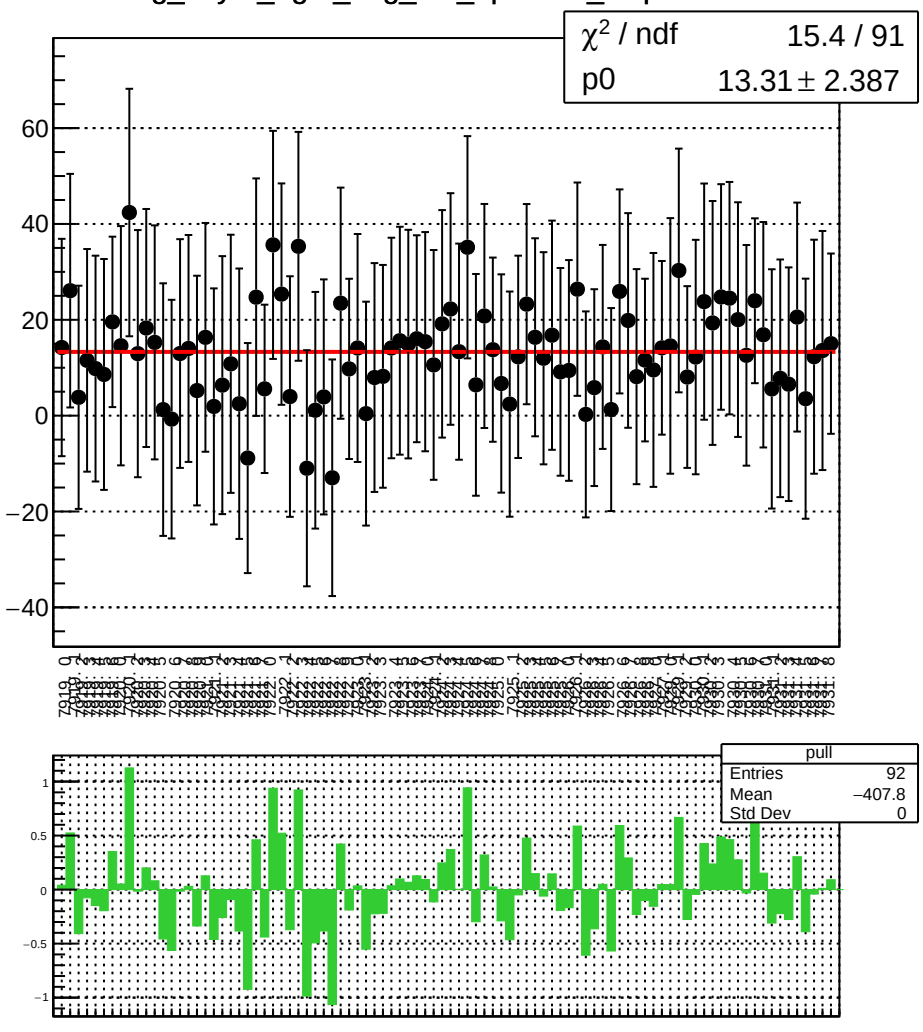

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 46.65 / 91
p0 7.868 ± 1.424
pull
Entries 92
Mean −511.4
Std Dev 0

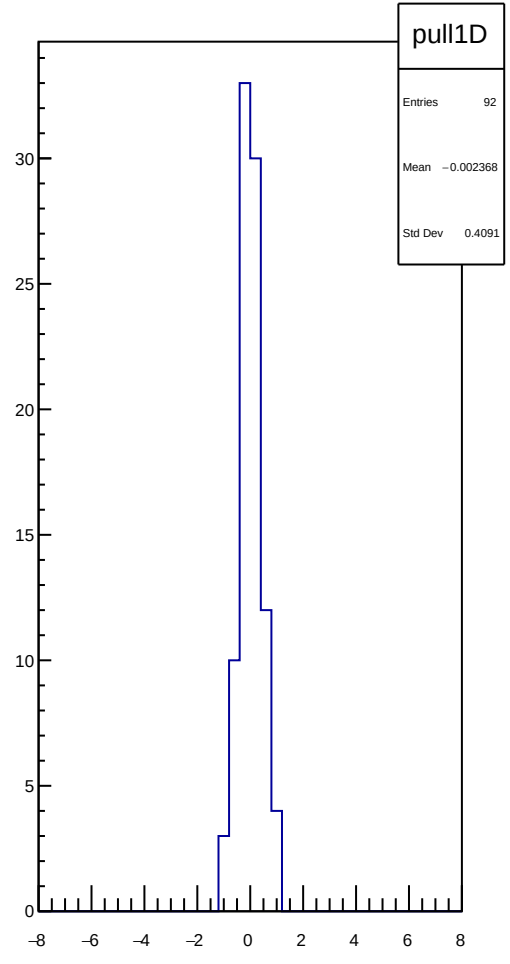

pull1D
Entries 92
Mean −0.003156
Std Dev 0.7121

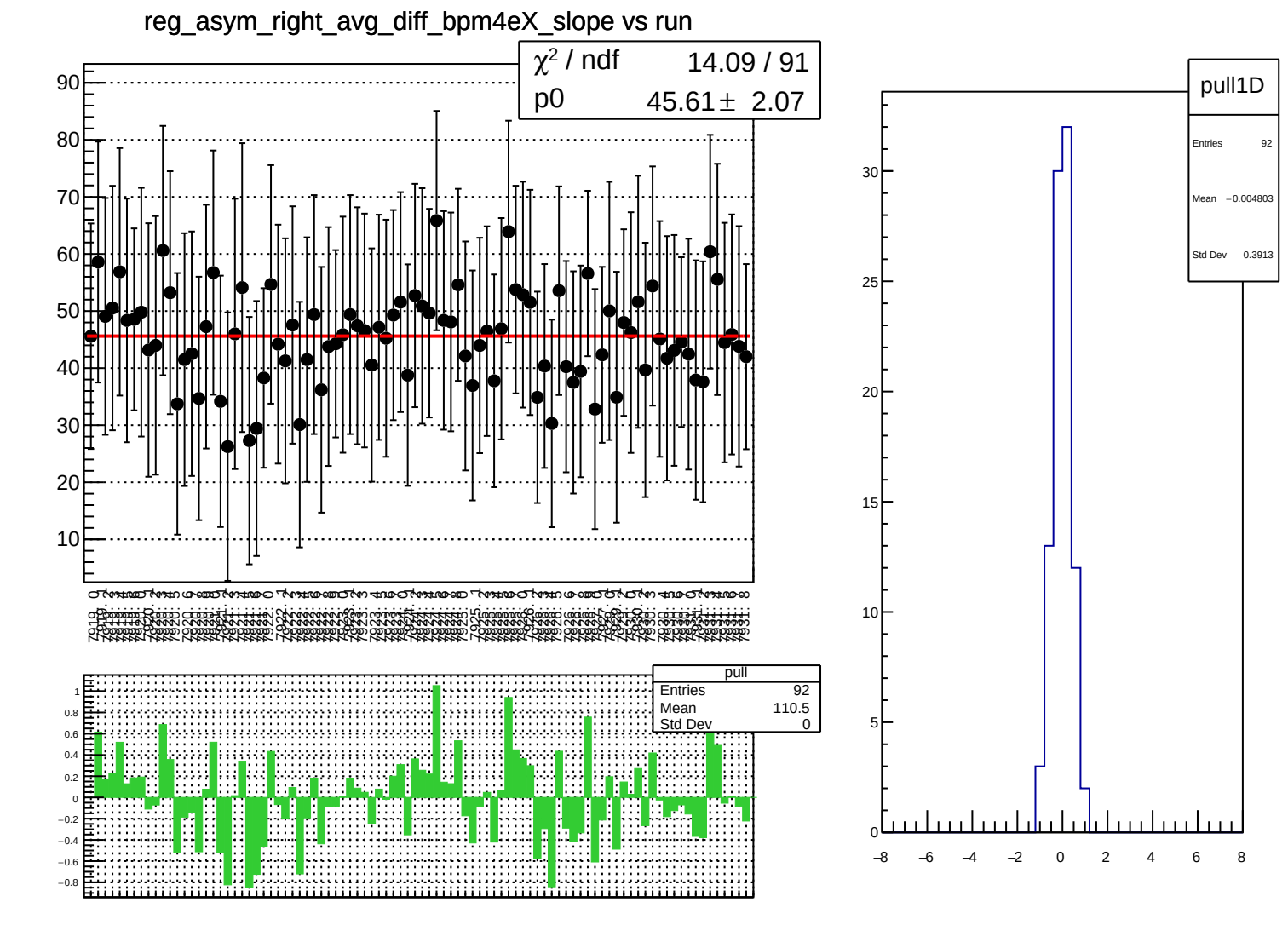

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 97.56 / 91
p0 −20.08 ± 0.0412
pull
Entries 92
Mean 4432
Std Dev 0
pull1D
Entries 92
Mean 0.002781
Std Dev 1.03

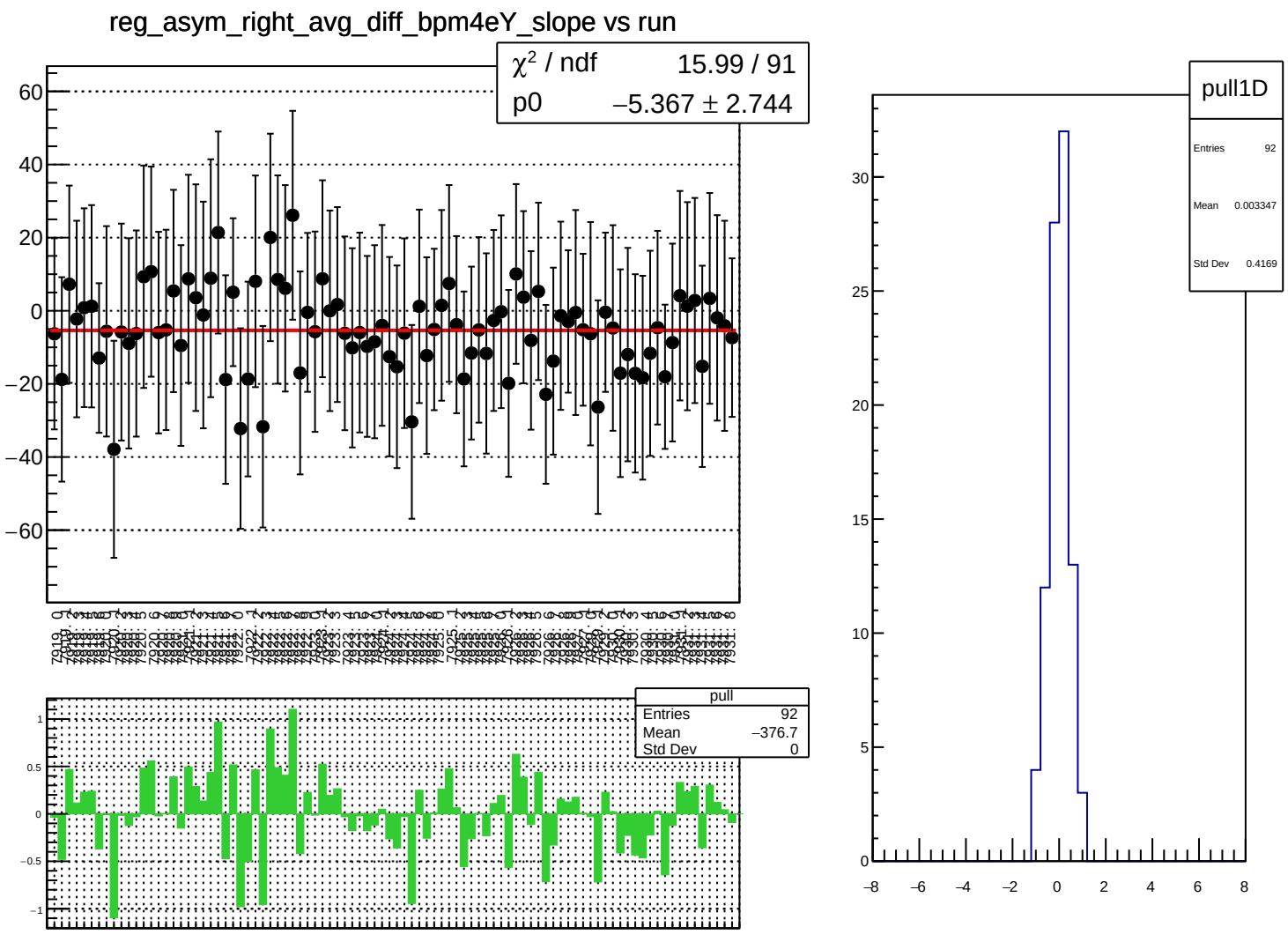

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 14 / 91
p0 −15.91 ± 2.314
pull
Entries 92
Mean 69.31
Std Dev 0

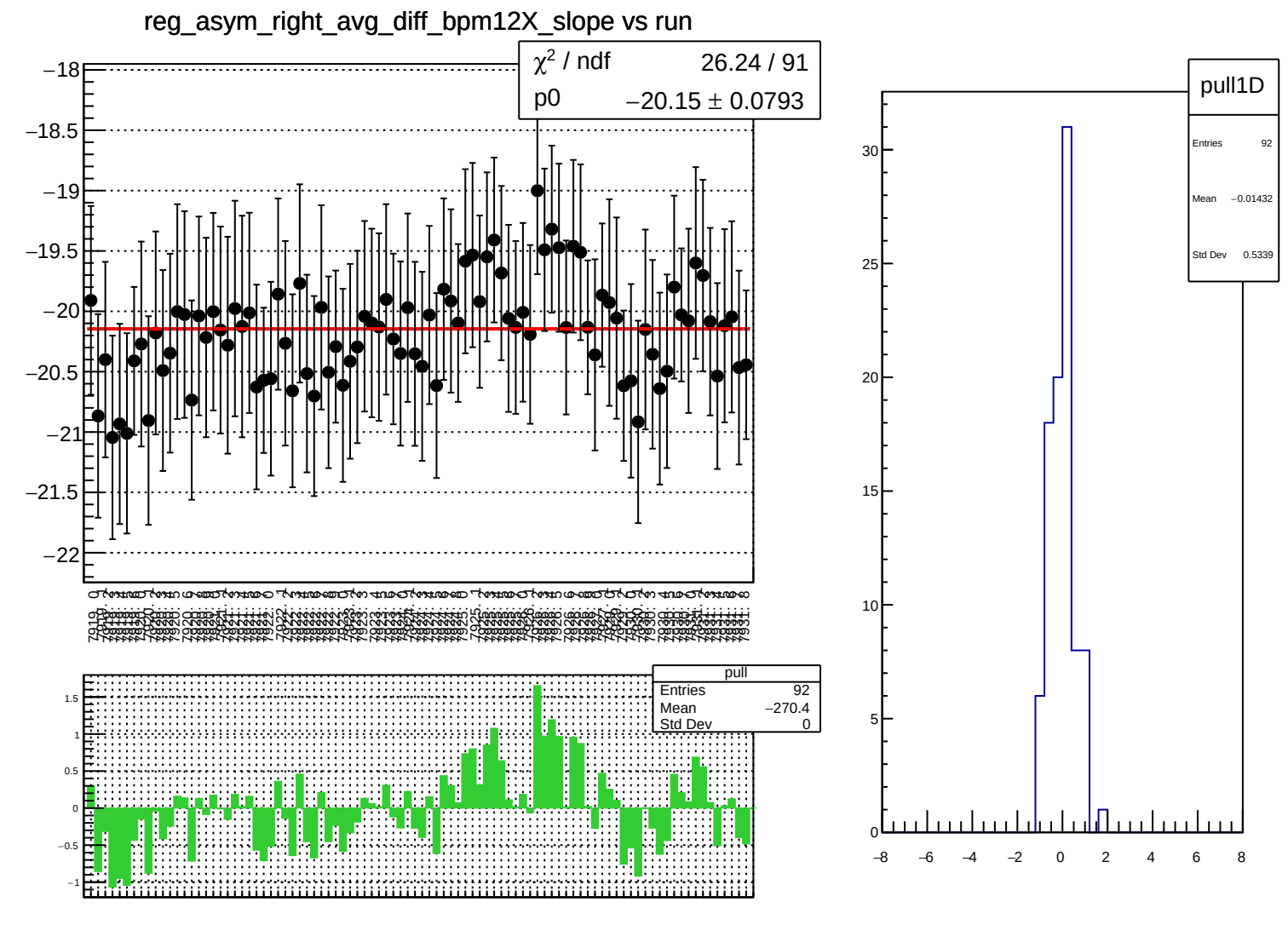

pull1D
Entries 92
Mean 0.005264
Std Dev 0.39

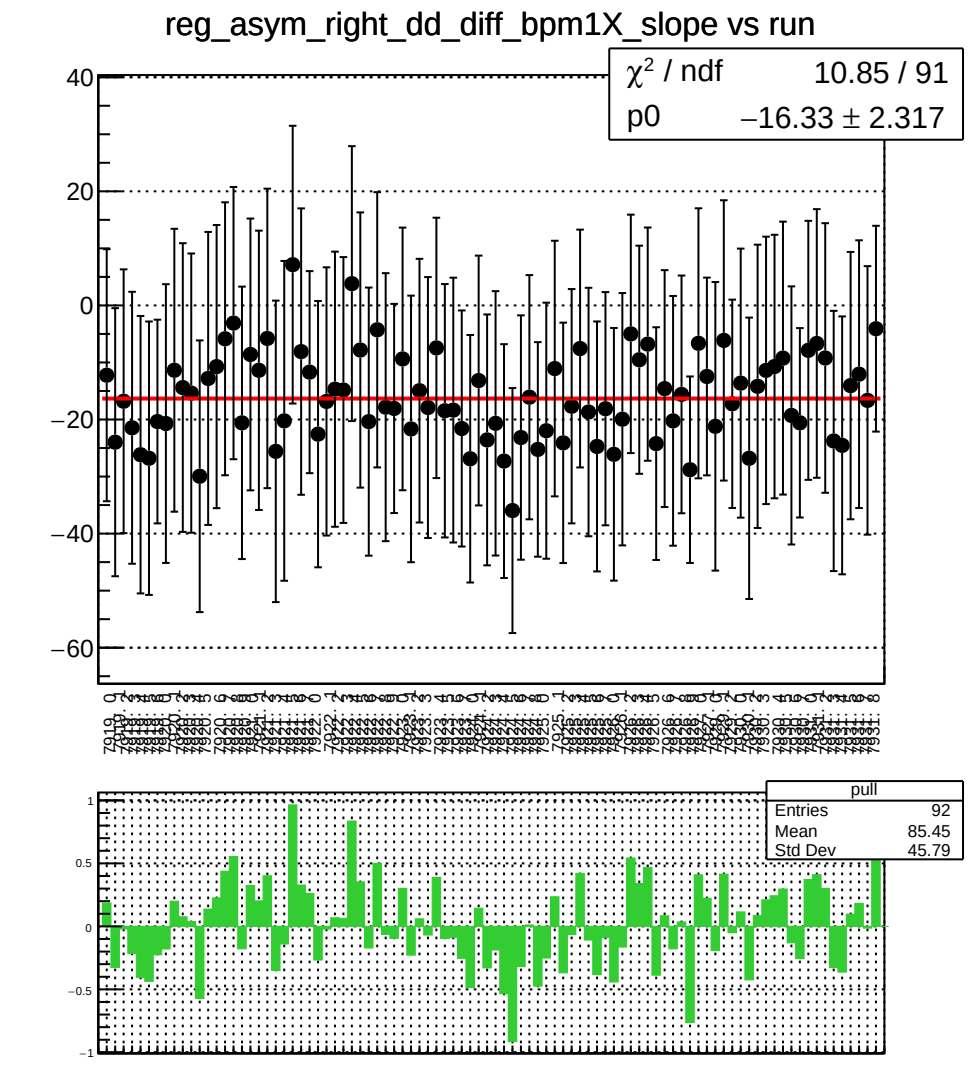

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 15.4 / 91
p0 13.31 ± 2.387
pull
Entries 92
Mean −407.8
Std Dev 0

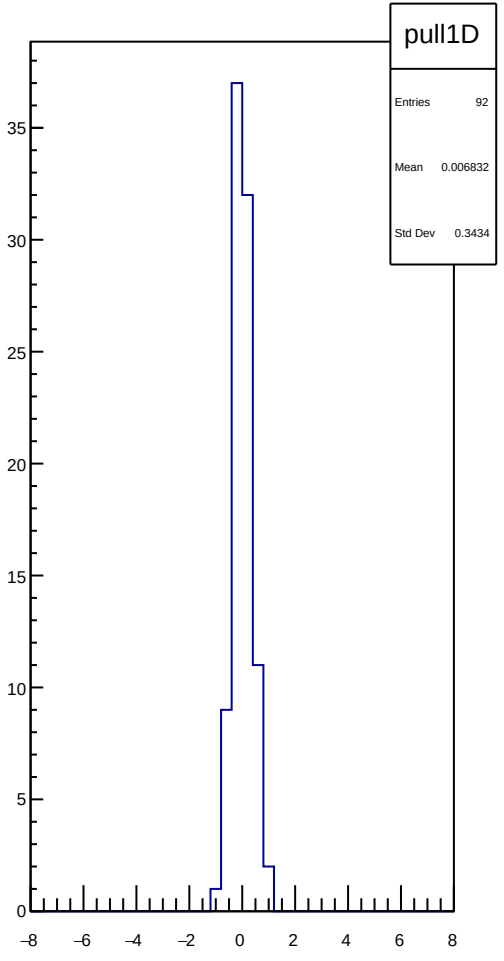

pull1D
Entries 92
Mean −0.002368
Std Dev 0.4091

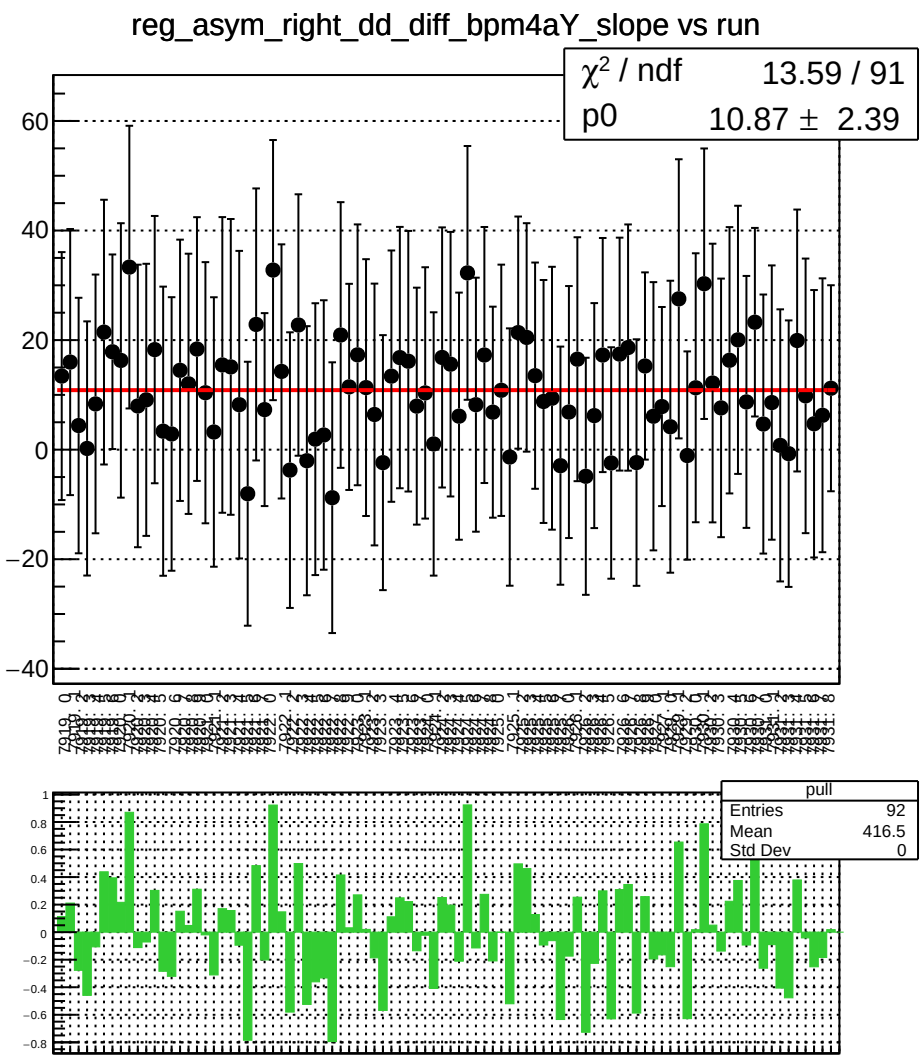

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 14.09 / 91
p0 45.61 ± 2.07
pull
Entries 92
Mean 110.5
Std Dev 0
pull1D
Entries 92
Mean −0.004803
Std Dev 0.3913

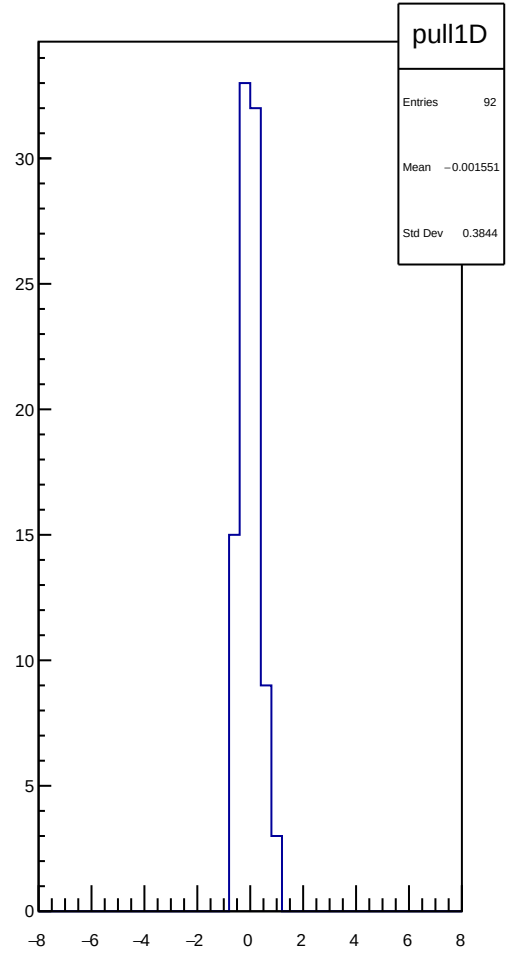

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 15.99 / 91
p0 −5.367 ± 2.744
pull
Entries 92
Mean −376.7
Std Dev 0
pull1D
Entries 92
Mean 0.003347
Std Dev 0.4169

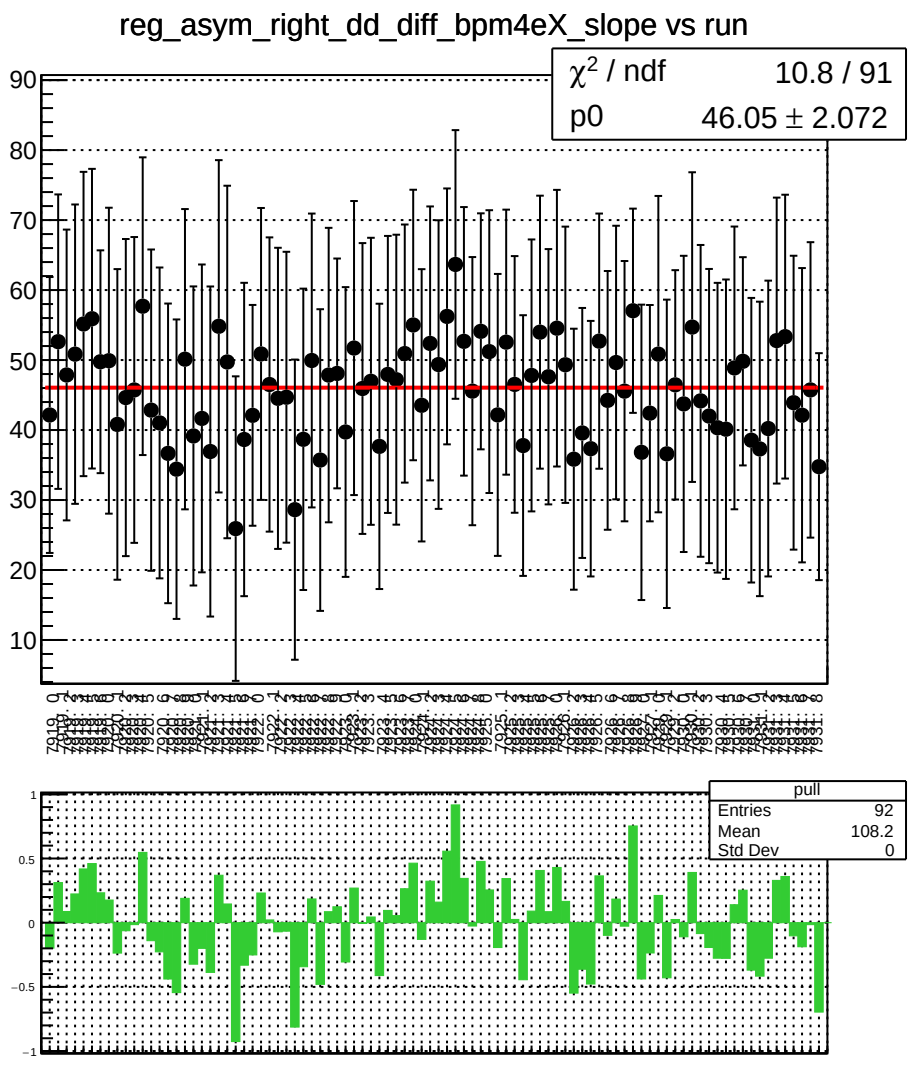

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 26.24 / 91
p0 −20.15 ± 0.0793
pull
Entries 92
Mean −270.4
Std Dev 0
pull1D
Entries 92
Mean −0.01432
Std Dev 0.5339

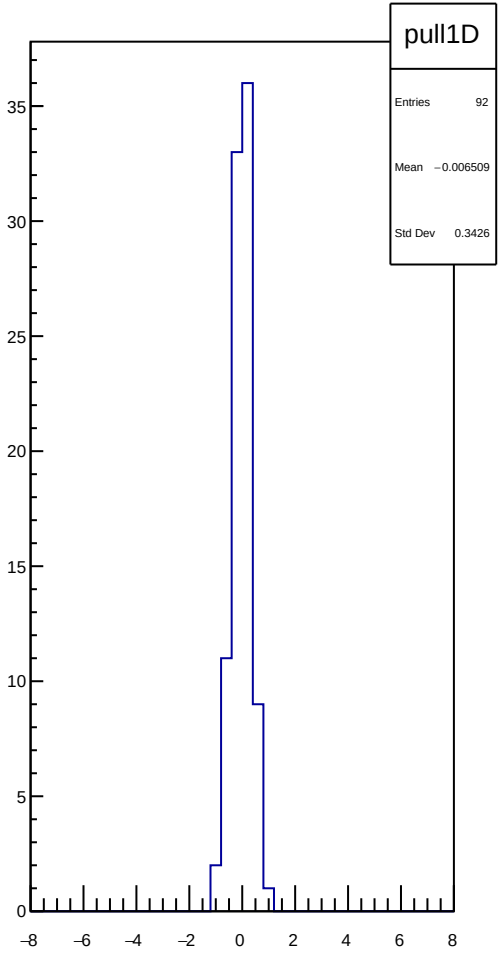

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 10.85 / 91
p0 −16.33 ± 2.317
pull
Entries 92
Mean 85.45
Std Dev 45.79

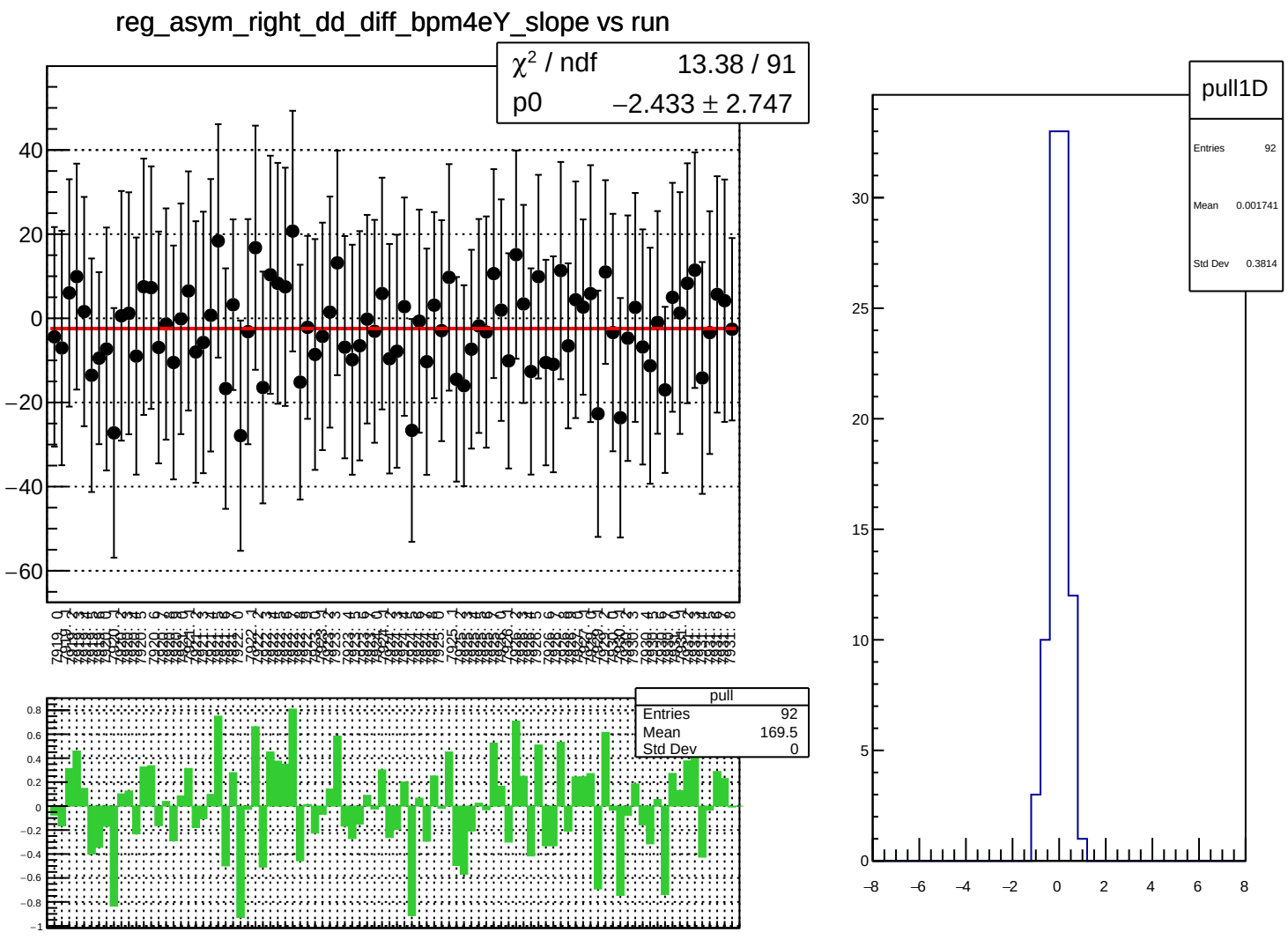

pull1D
Entries 92
Mean 0.006832
Std Dev 0.3434

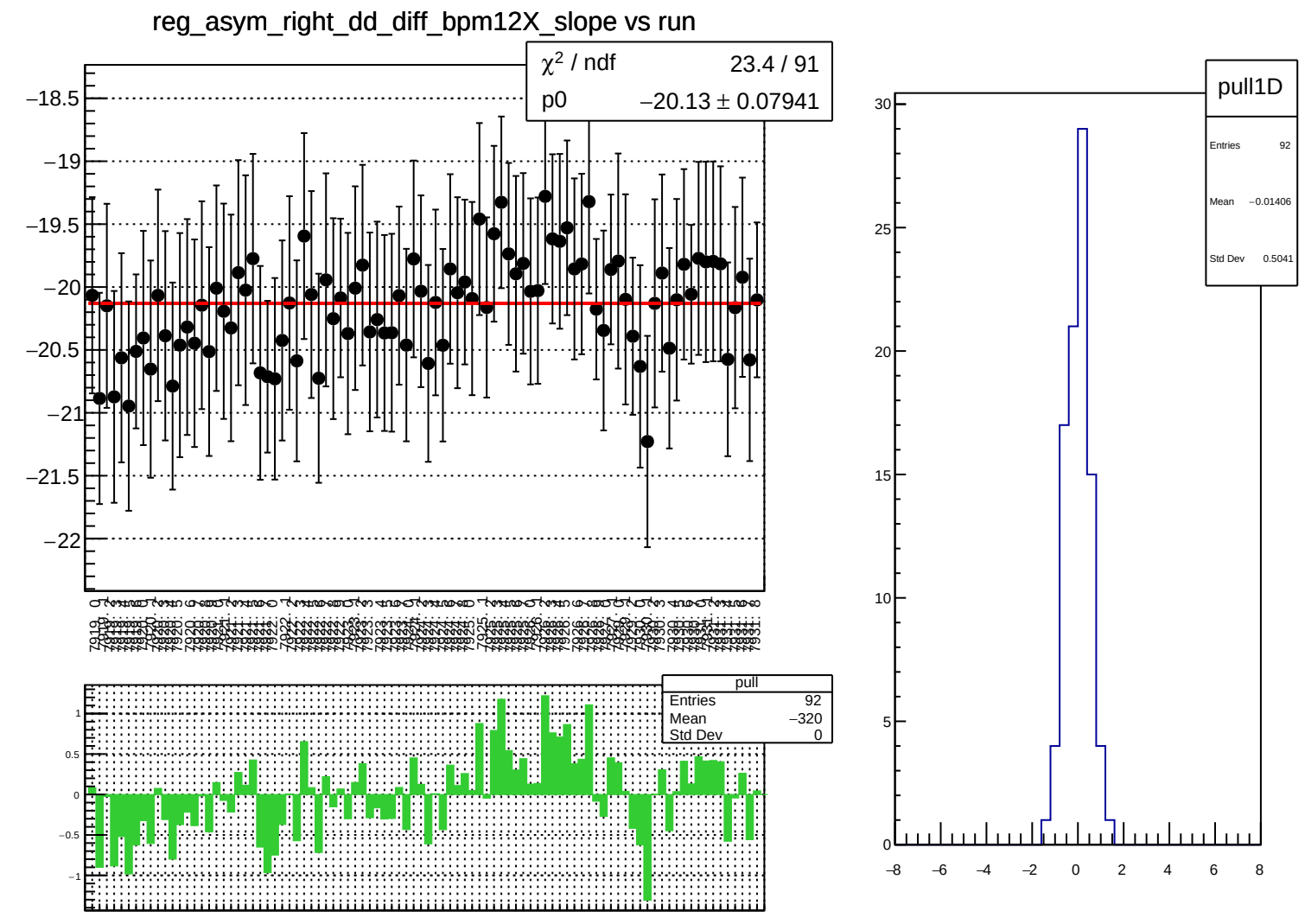

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 13.59 / 91
p0 10.87 ± 2.39
pull
Entries 92
Mean 416.5
Std Dev 0

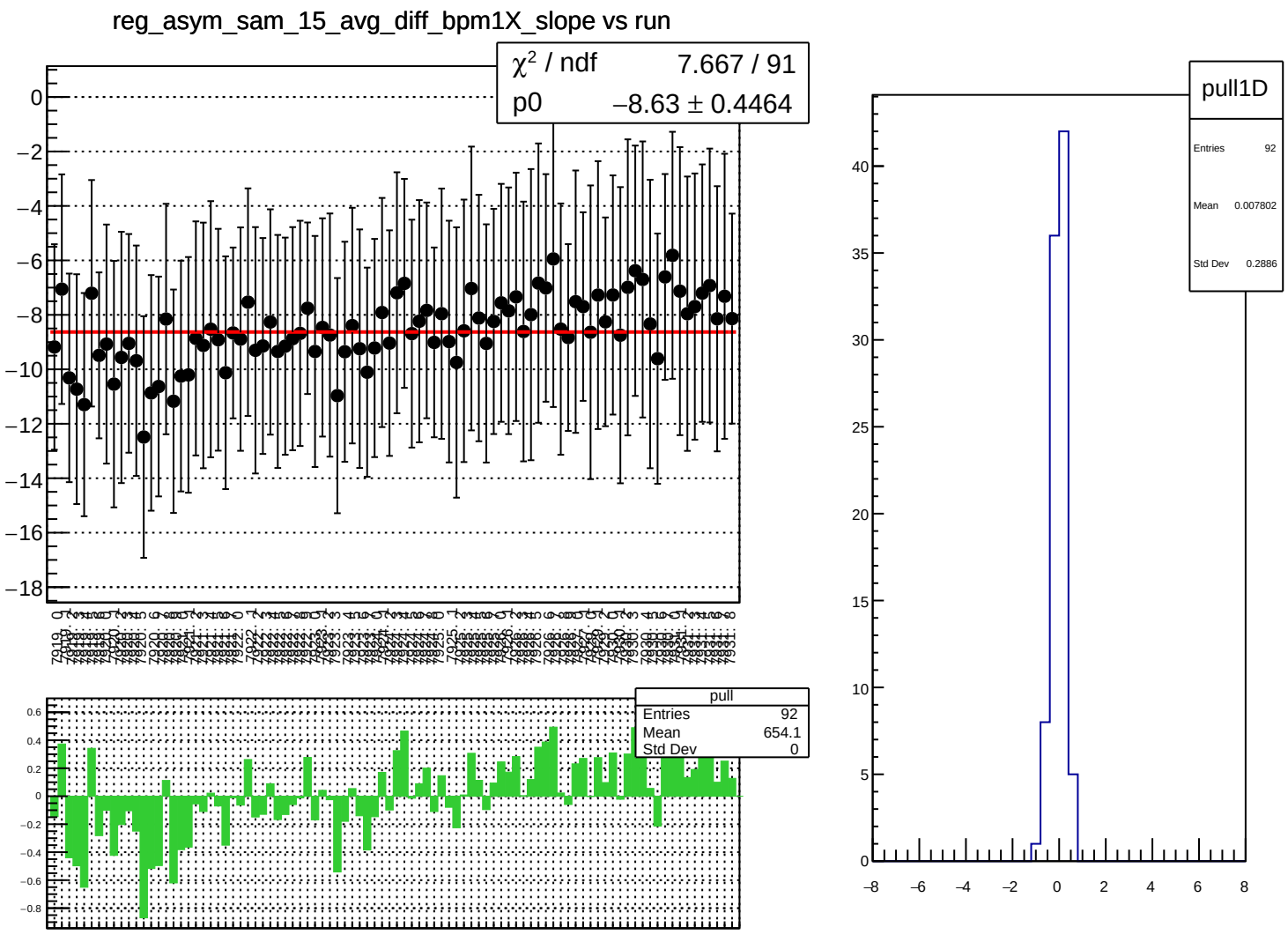

pull1D
Entries 92
Mean −0.001551
Std Dev 0.3844

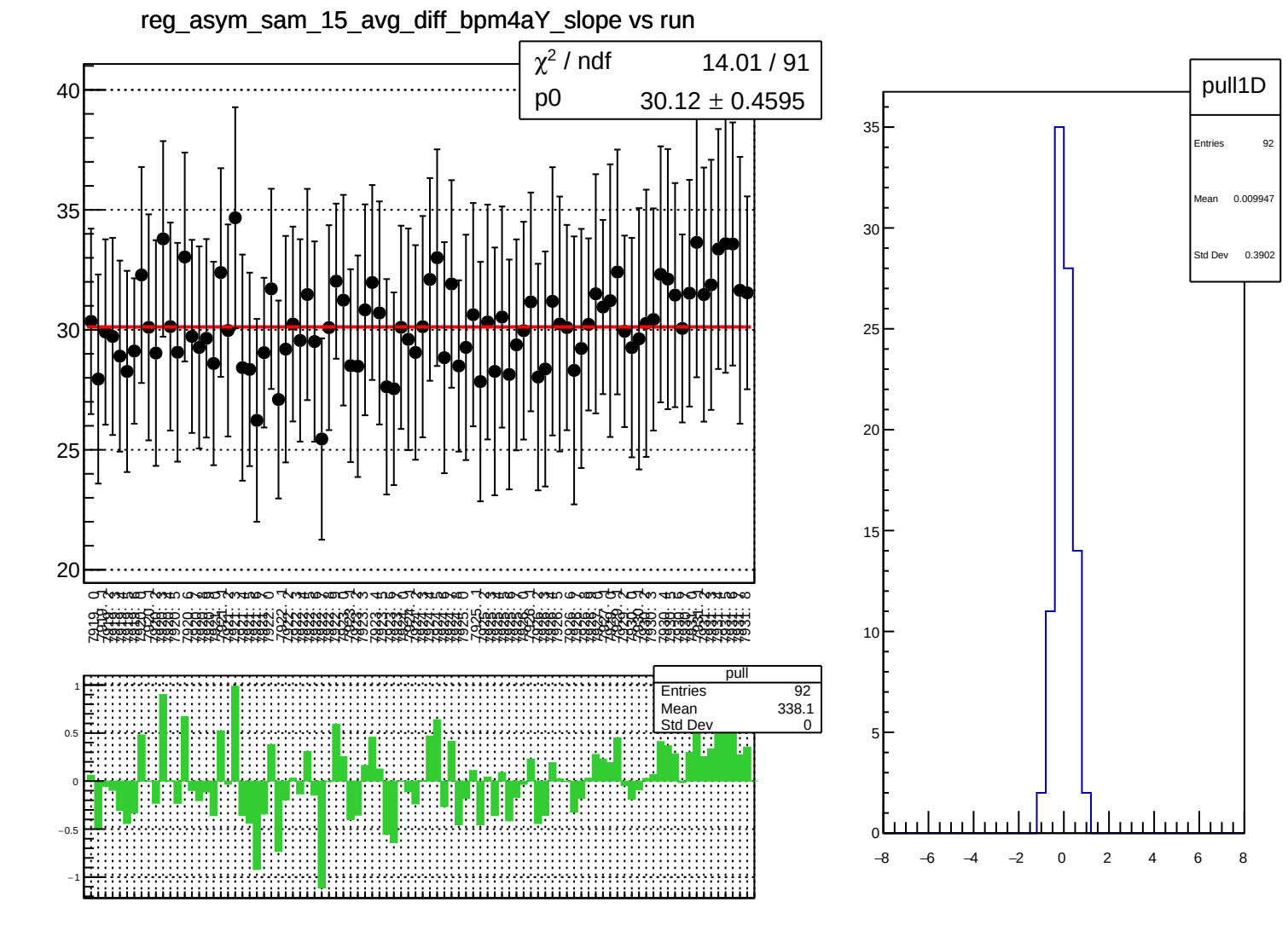

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 10.8 / 91
p0 46.05 ± 2.072
pull
Entries 92
Mean 108.2
Std Dev 0

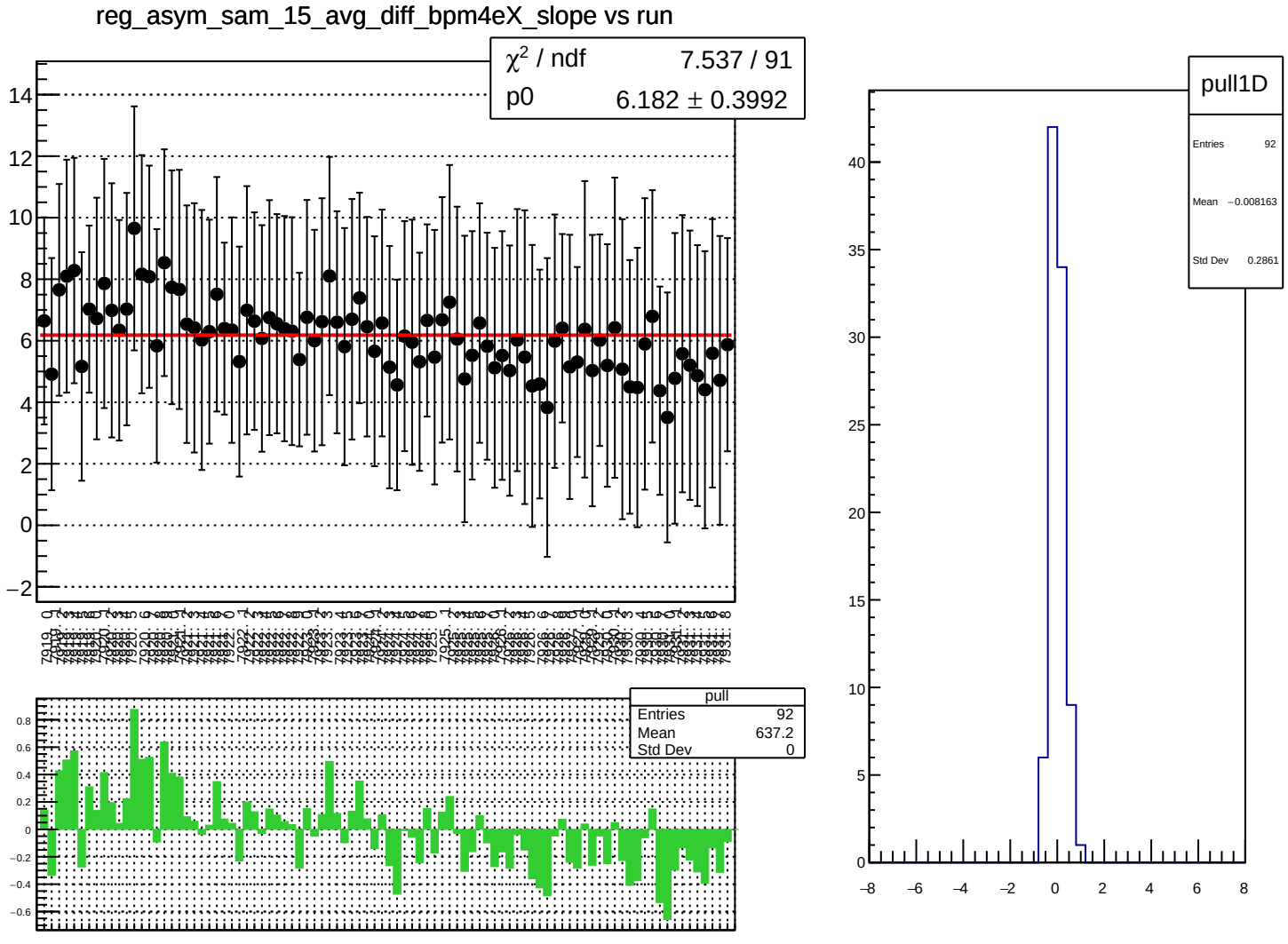

pull1D
Entries 92
Mean −0.006509
Std Dev 0.3426

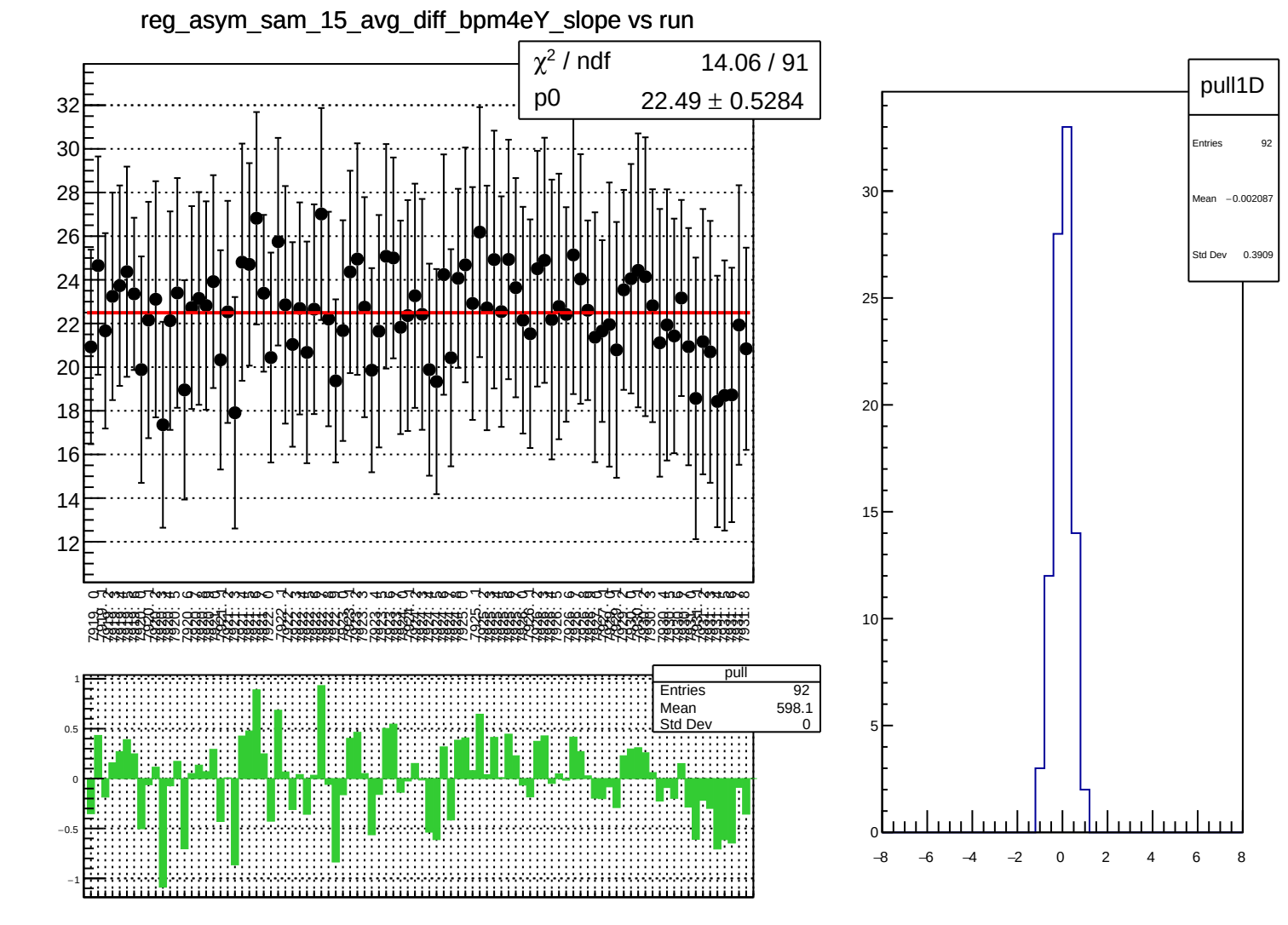

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 13.38 / 91
p0 −2.433 ± 2.747
pull
Entries 92
Mean 169.5
Std Dev 0
pull1D
Entries 92
Mean 0.001741
Std Dev 0.3814

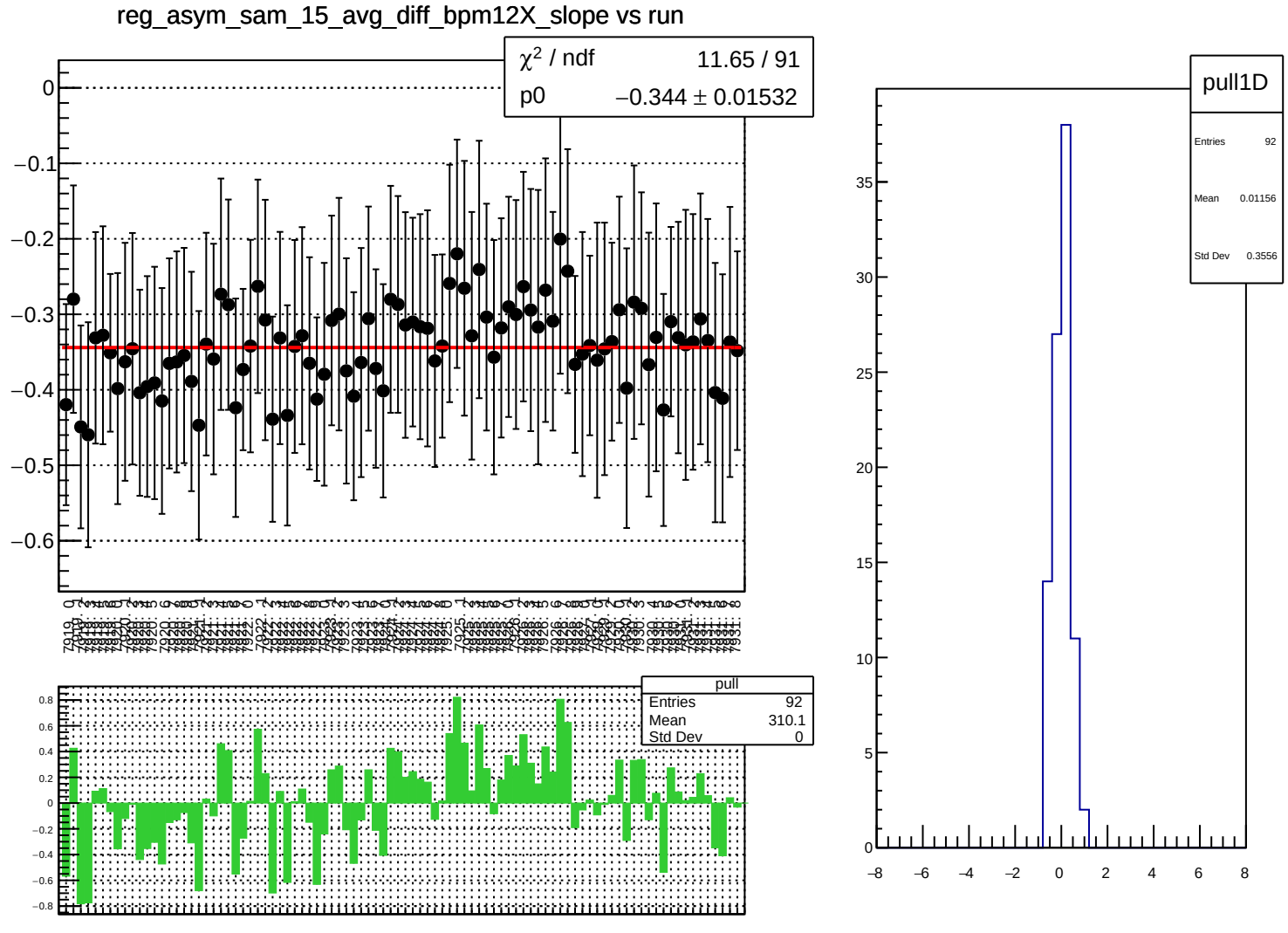

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 23.4 / 91
p0 −20.13 ± 0.07941
−18.5
−19
−19.5
−20
−20.5
−21
−21.5
−22
pull
Entries 92
Mean −320
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 92
Mean −0.01406
Std Dev 0.5041
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

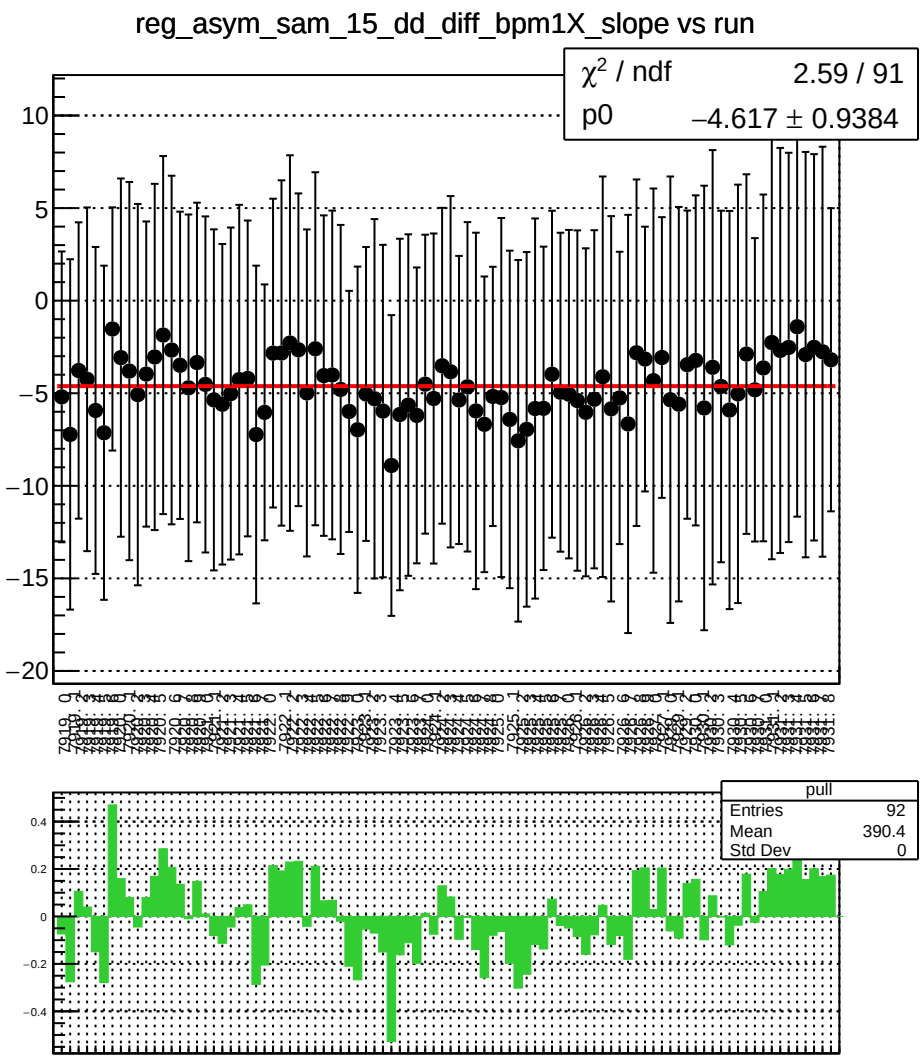

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 7.667 / 91
p0 −8.63 ± 0.4464
pull
Entries 92
Mean 654.1
Std Dev 0
pull1D
Entries 92
Mean 0.007802
Std Dev 0.2886

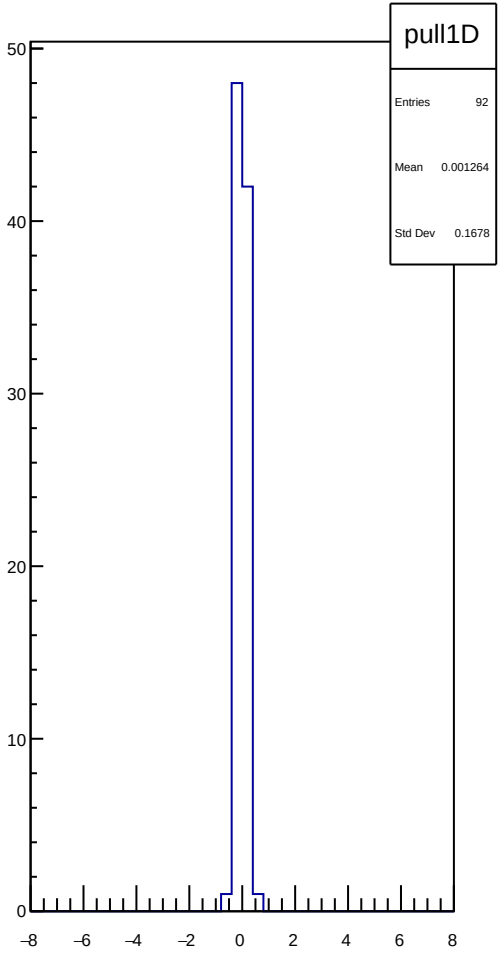

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 14.01 / 91
p0 30.12 ± 0.4595
pull
Entries 92
Mean 338.1
Std Dev 0
pull1D
Entries 92
Mean 0.009947
Std Dev 0.3902

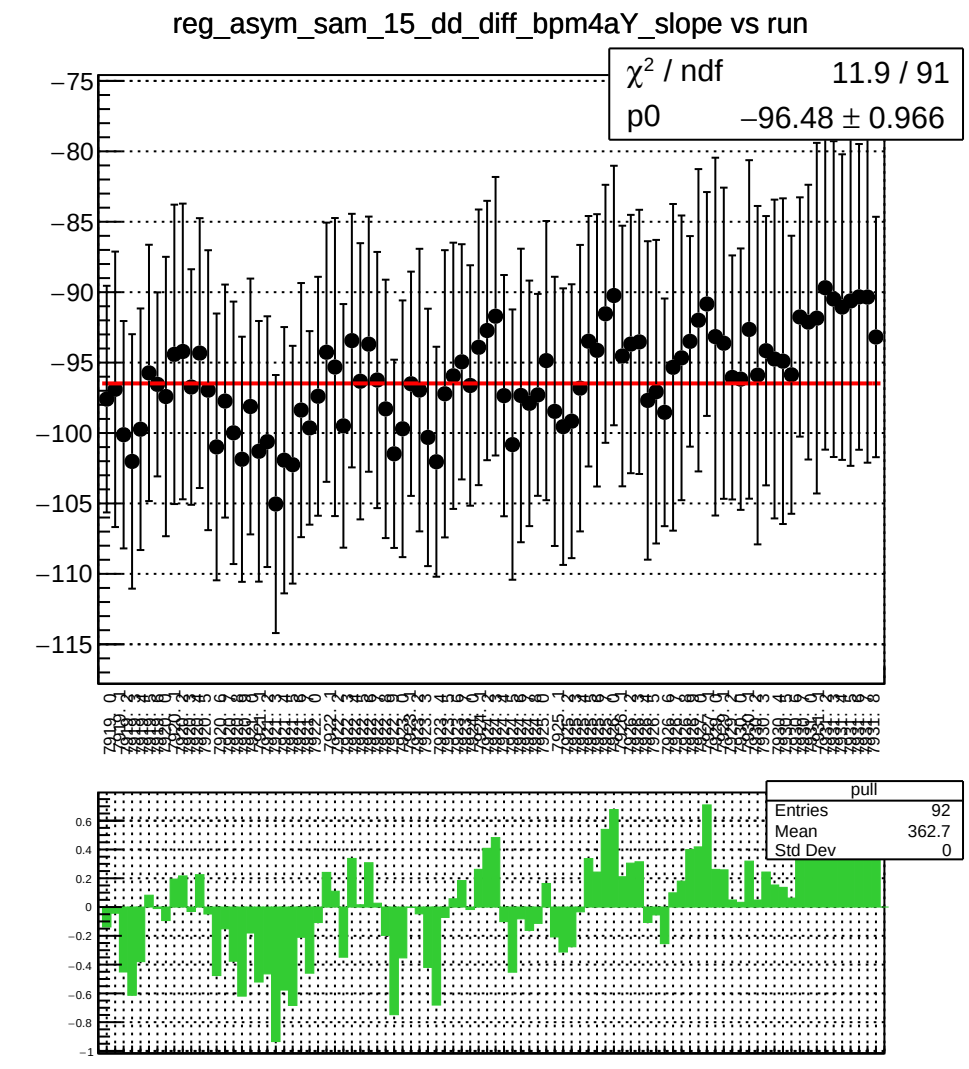

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 7.537 / 91
p0 6.182 ± 0.3992
pull
Entries 92
Mean 637.2
Std Dev 0
pull1D
Entries 92
Mean −0.008163
Std Dev 0.2861

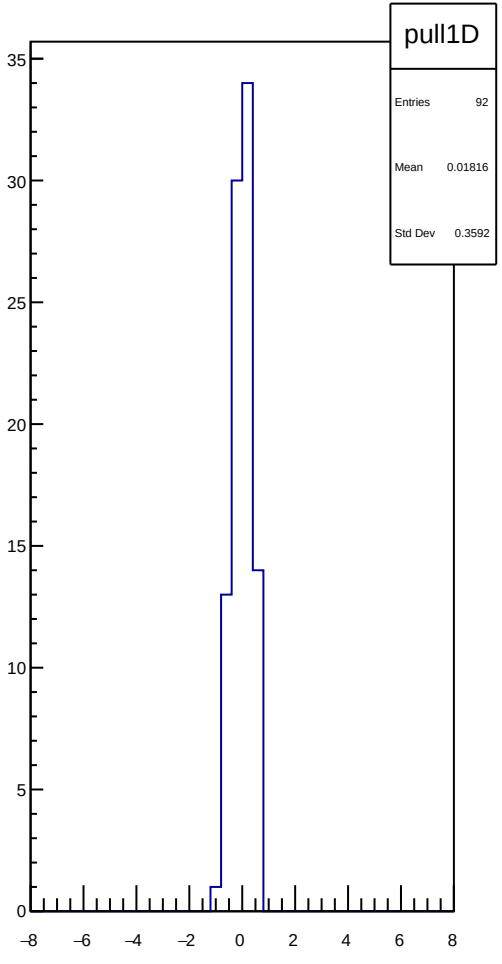

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 14.06 / 91
p0 22.49 ± 0.5284
pull
Entries 92
Mean 598.1
Std Dev 0
pull1D
Entries 92
Mean −0.002087
Std Dev 0.3909

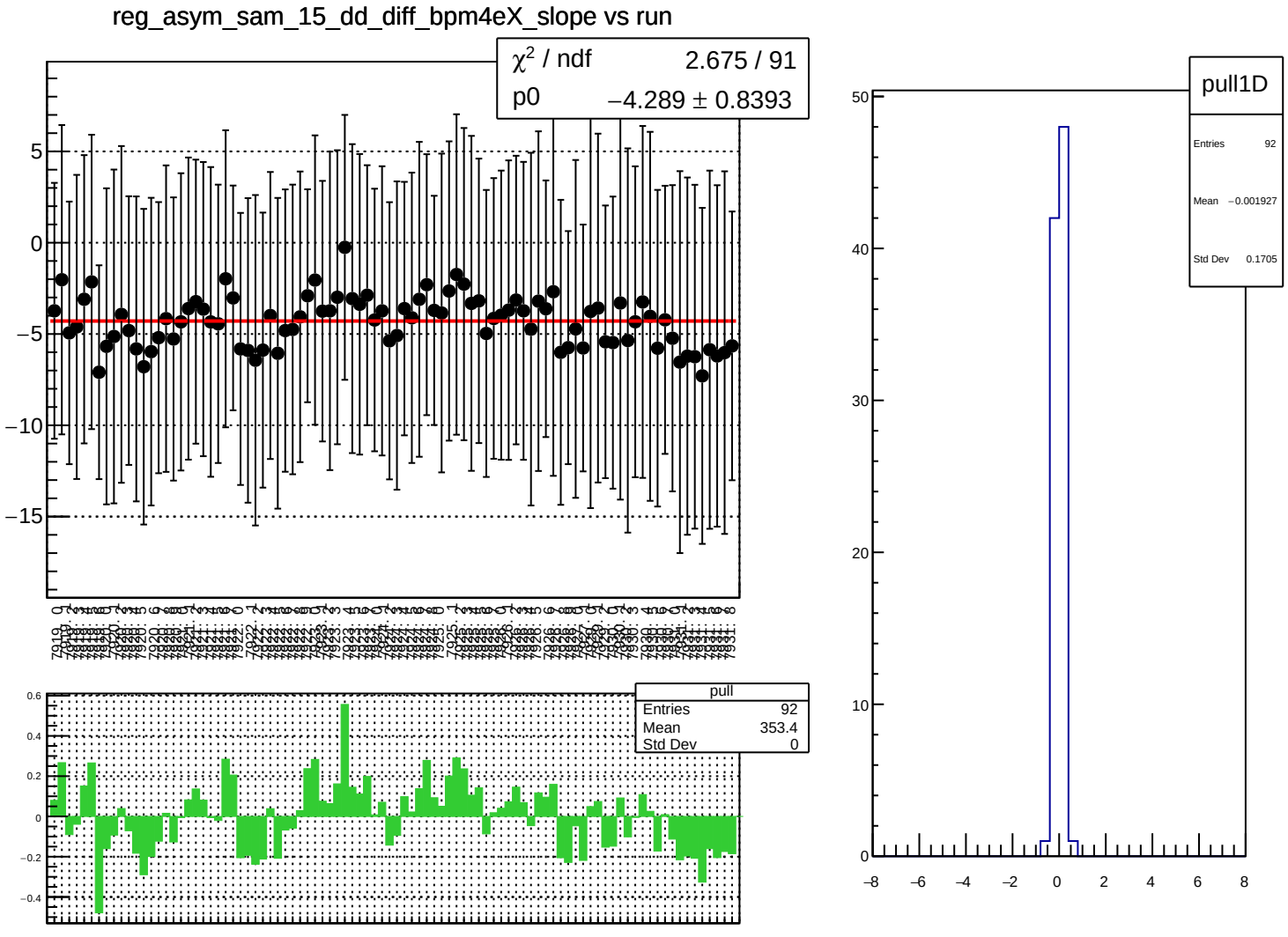

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 11.65 / 91
p0 −0.344 ± 0.01532
pull
Entries 92
Mean 310.1
Std Dev 0
pull1D
Entries 92
Mean 0.01156
Std Dev 0.3556

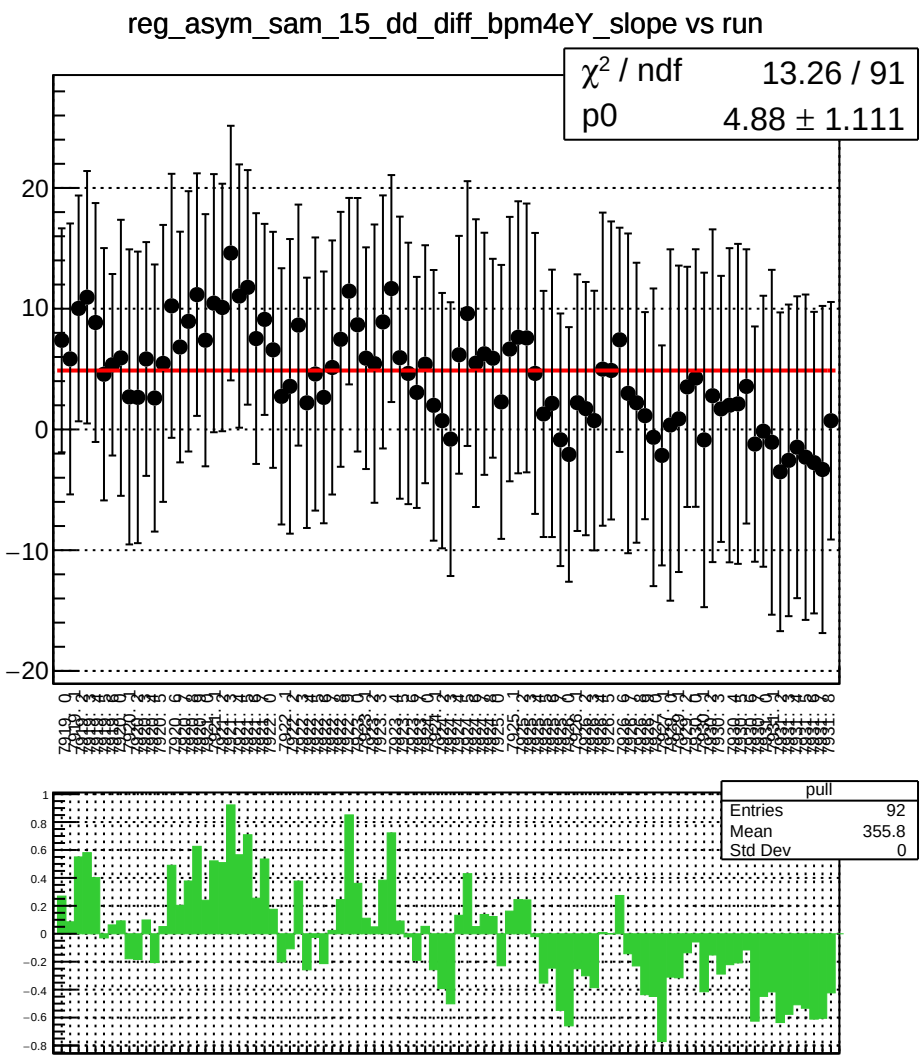

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 2.59 / 91
p0 −4.617 ± 0.9384
pull
Entries 92
Mean 390.4
Std Dev 0

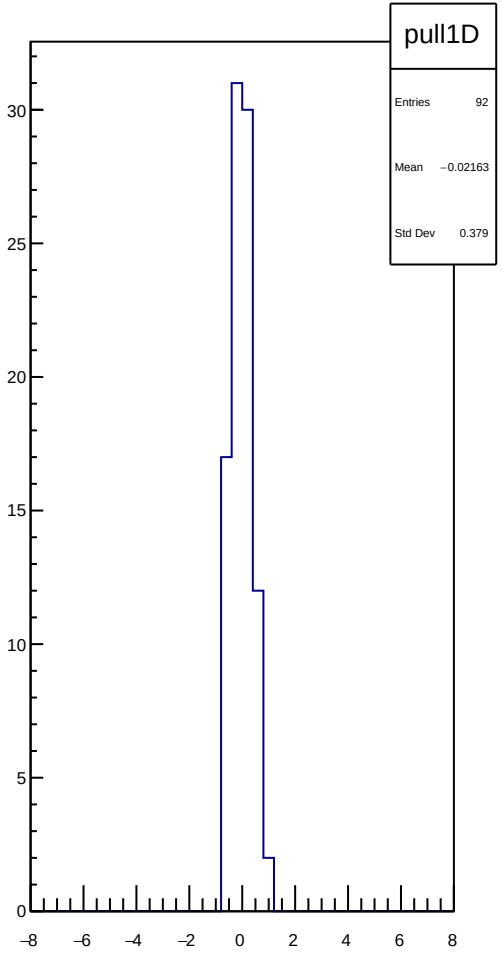

pull1D
Entries 92
Mean 0.001264
Std Dev 0.1678

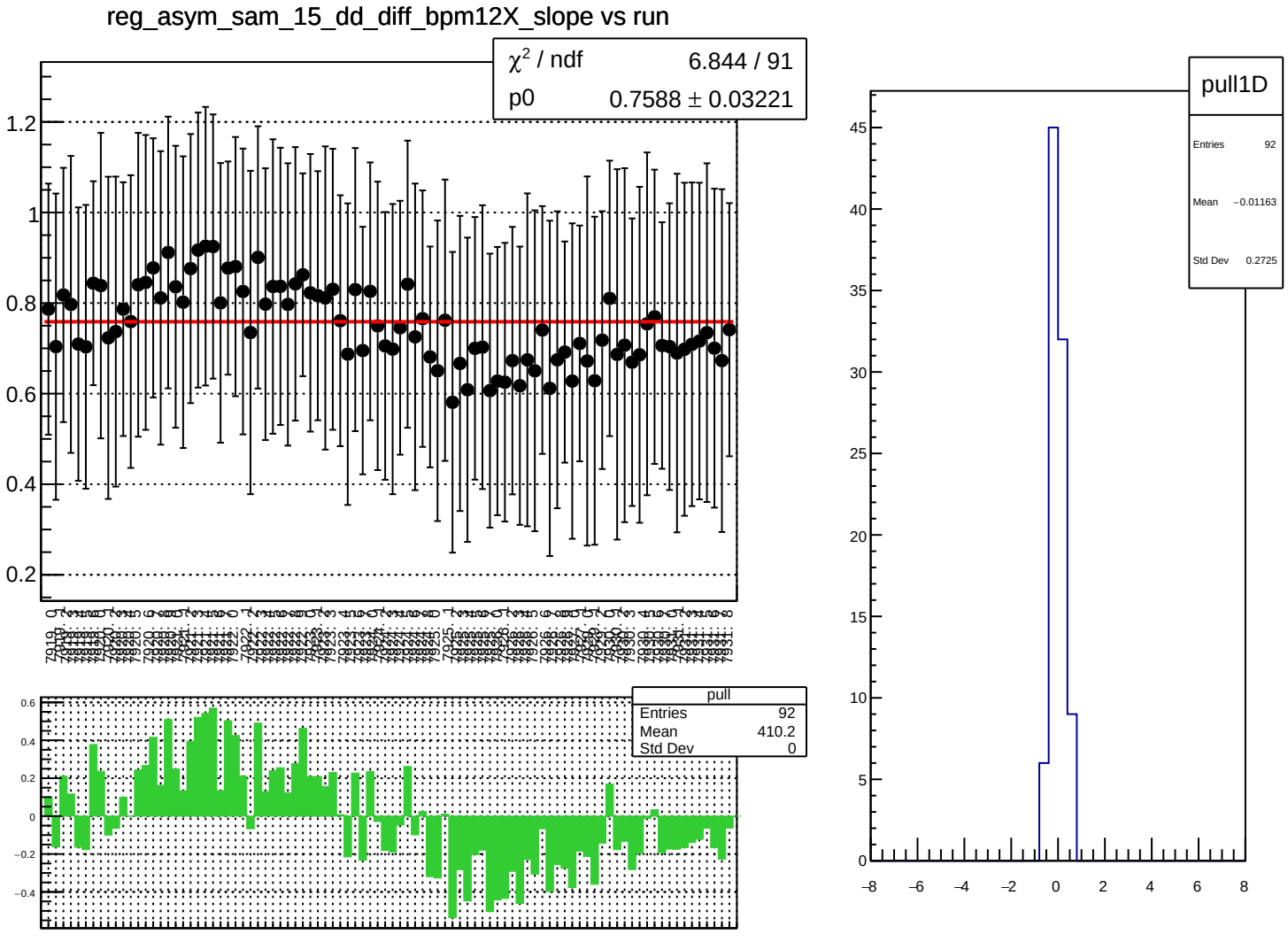

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.9 / 91
p0 −96.48 ± 0.966
pull
Entries 92
Mean 362.7
Std Dev 0

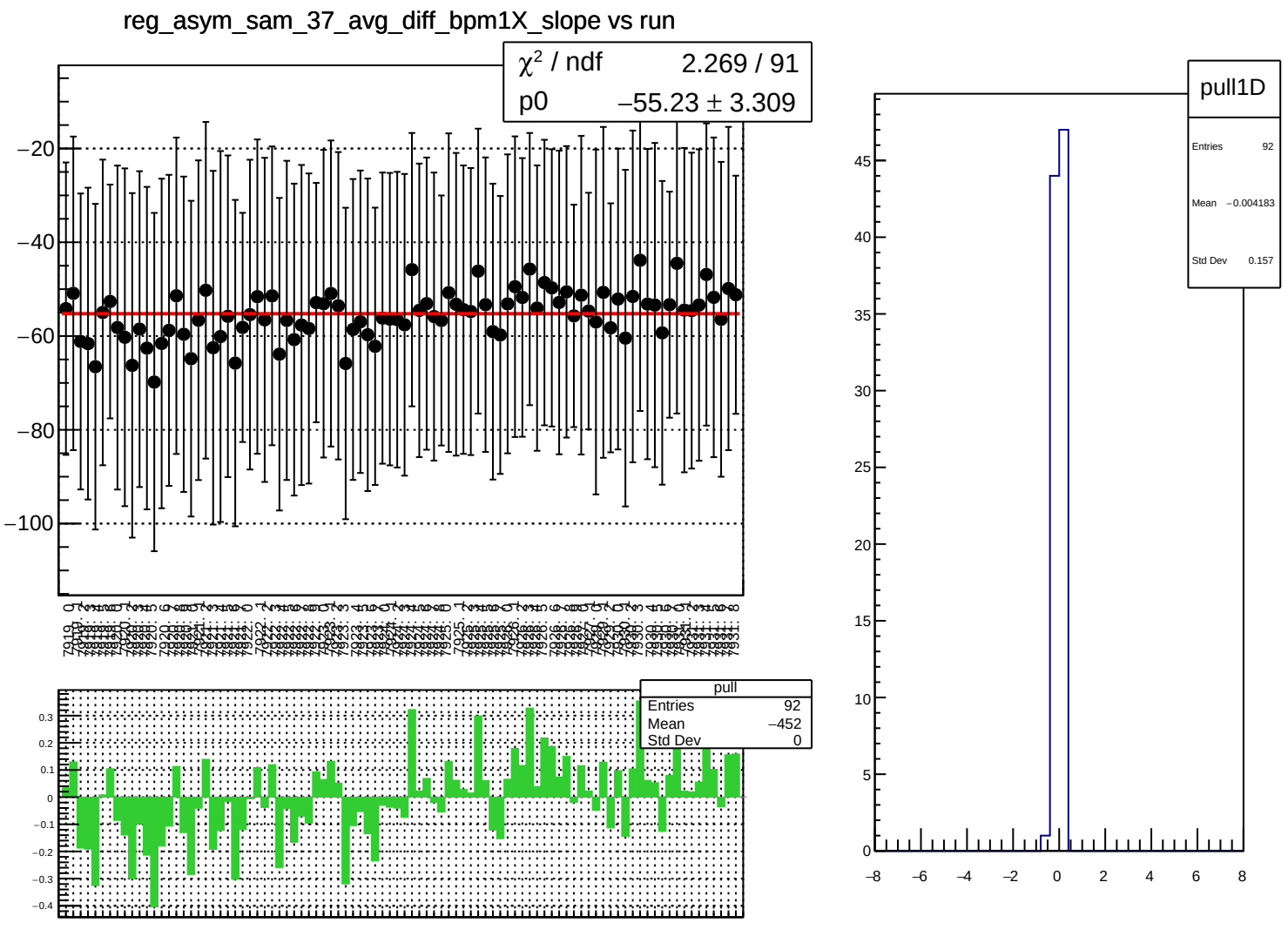

pull1D
Entries 92
Mean 0.01816
Std Dev 0.3592

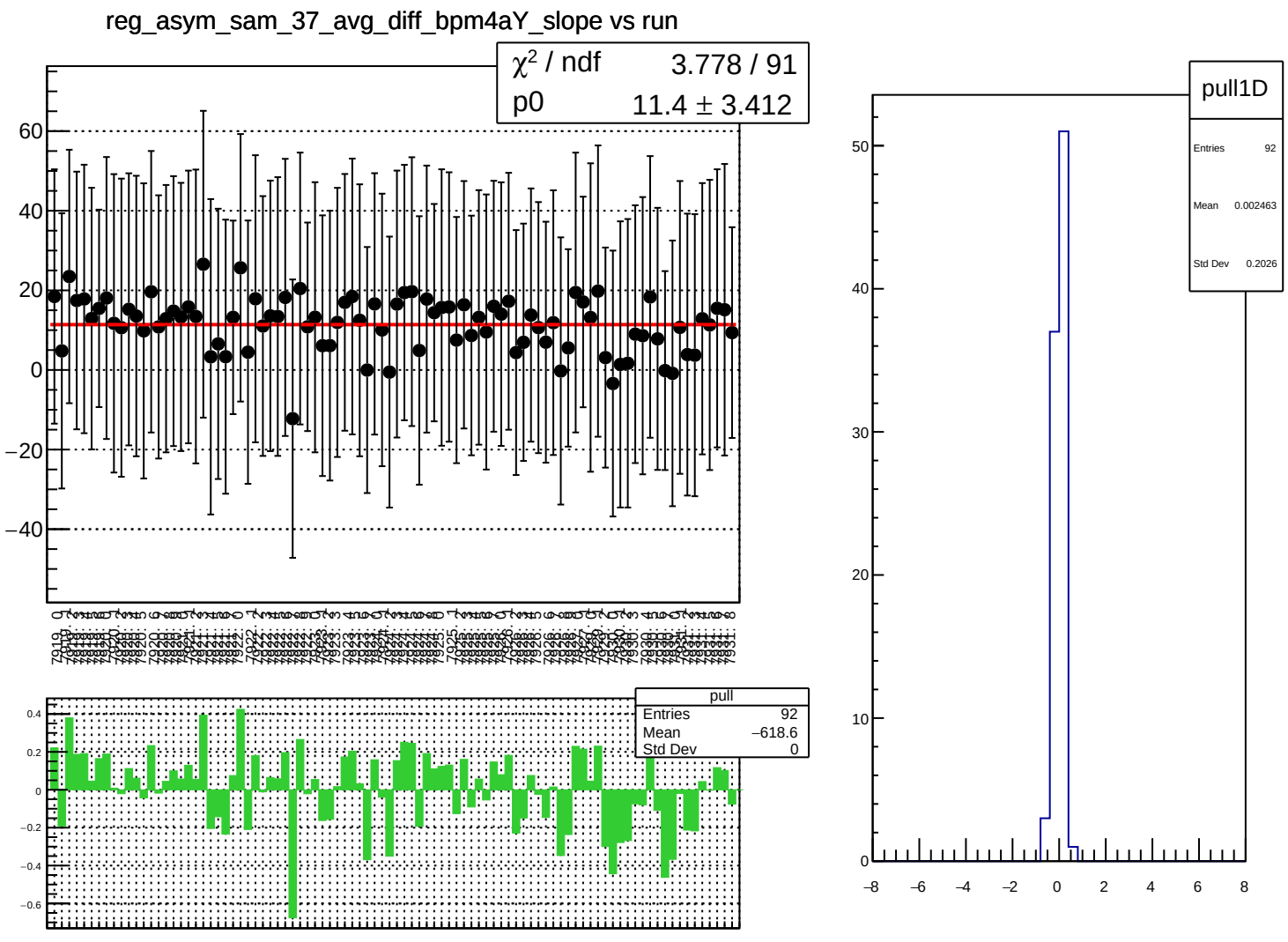

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.675 / 91
p0 −4.289 ± 0.8393
pull
Entries 92
Mean 353.4
Std Dev 0
pull1D
Entries 92
Mean −0.001927
Std Dev 0.1705

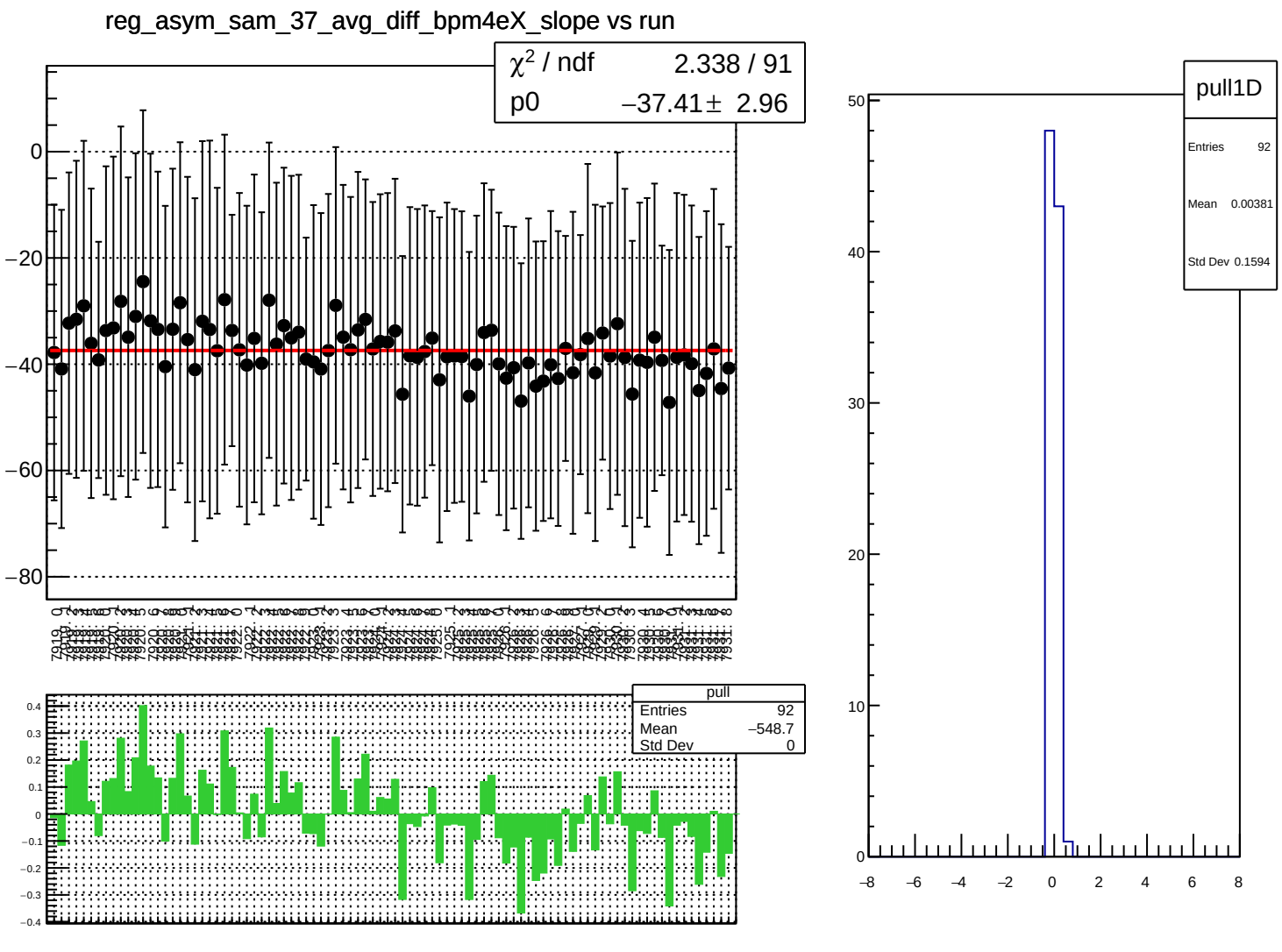

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 13.26 / 91
p0 4.88 ± 1.111
pull
Entries 92
Mean 355.8
Std Dev 0

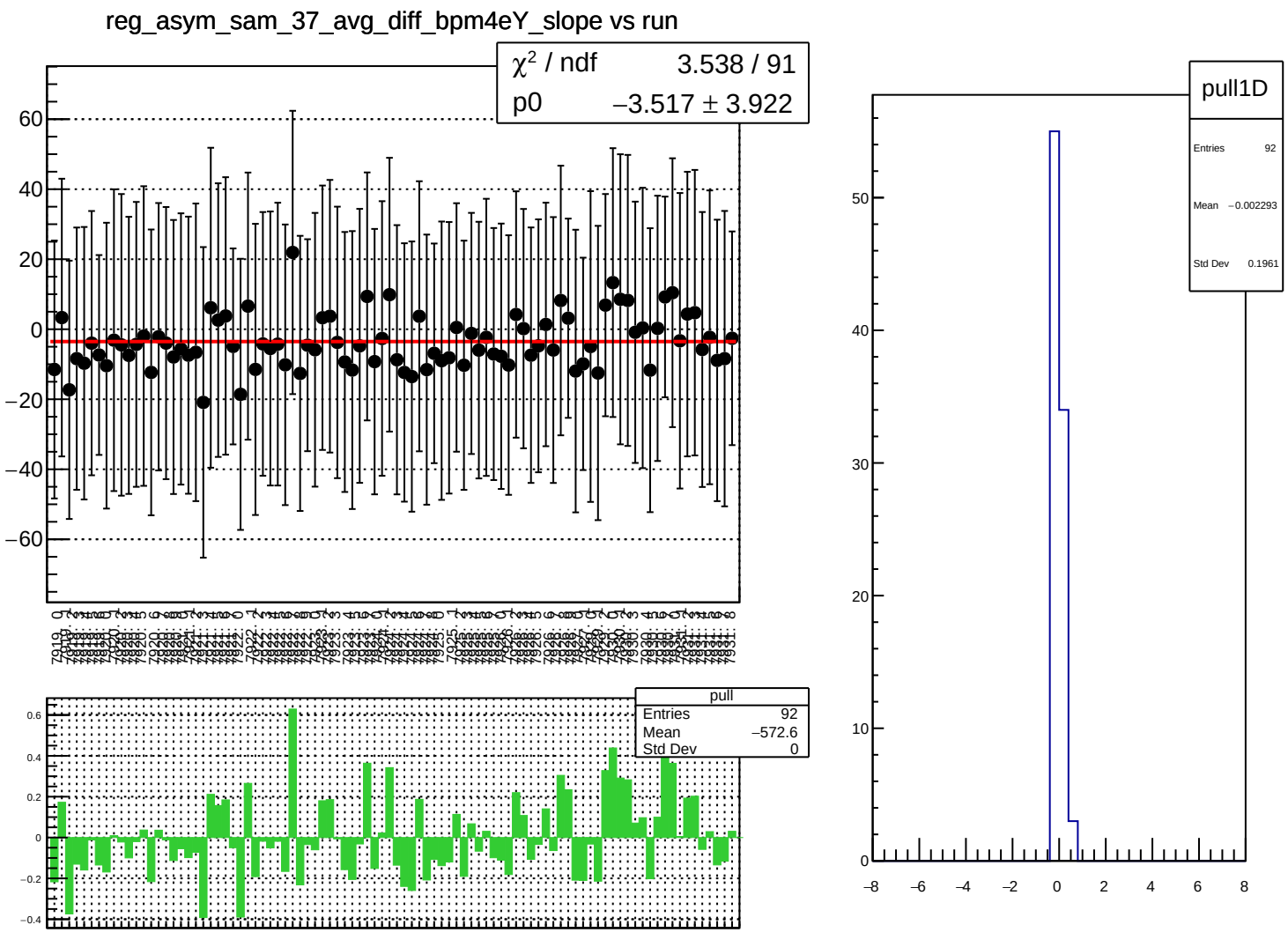

pull1D
Entries 92
Mean −0.02163
Std Dev 0.379

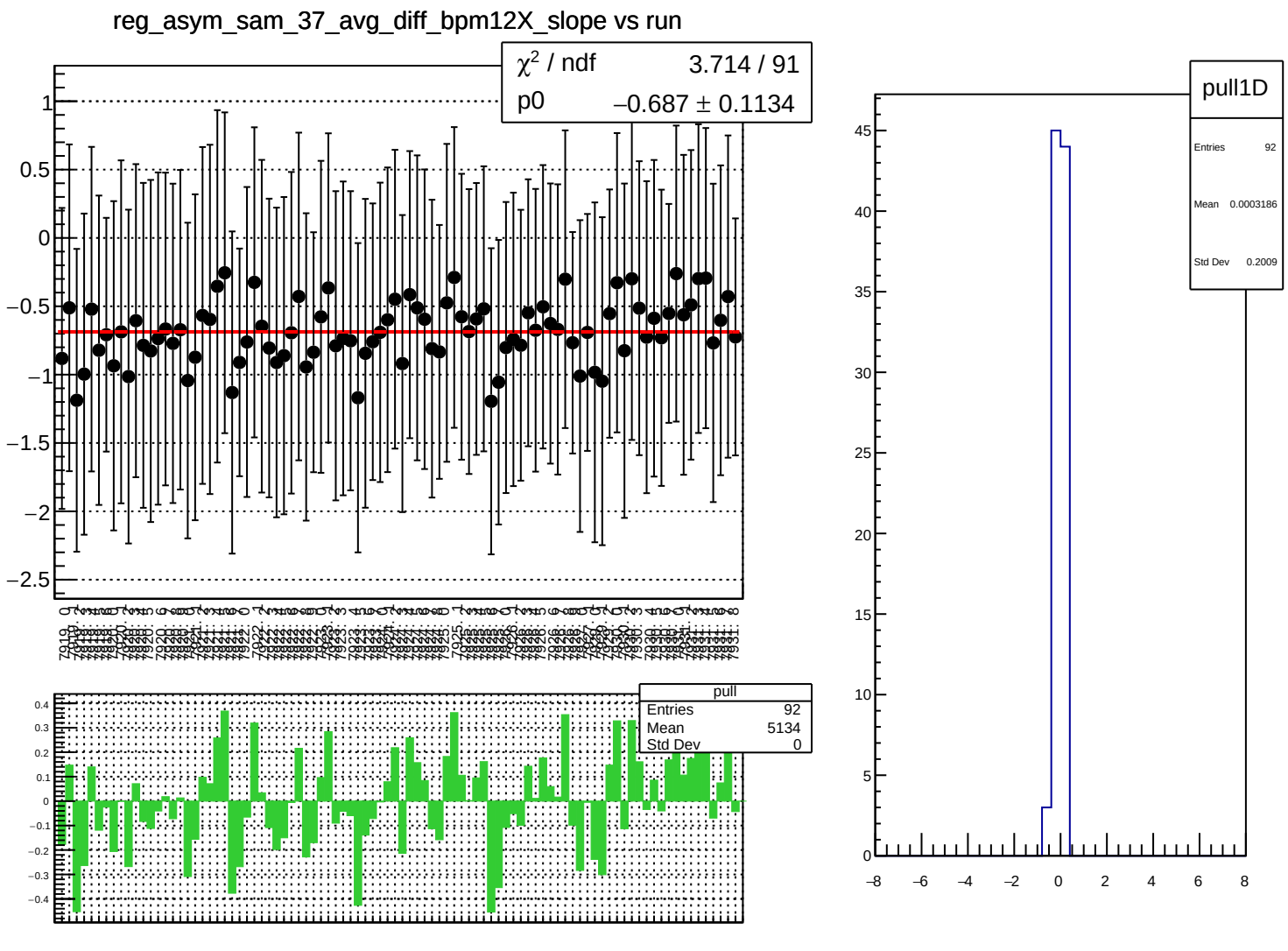

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 6.844 / 91
p0 0.7588 ± 0.03221
pull
Entries 92
Mean 410.2
Std Dev 0
pull1D
Entries 92
Mean −0.01163
Std Dev 0.2725

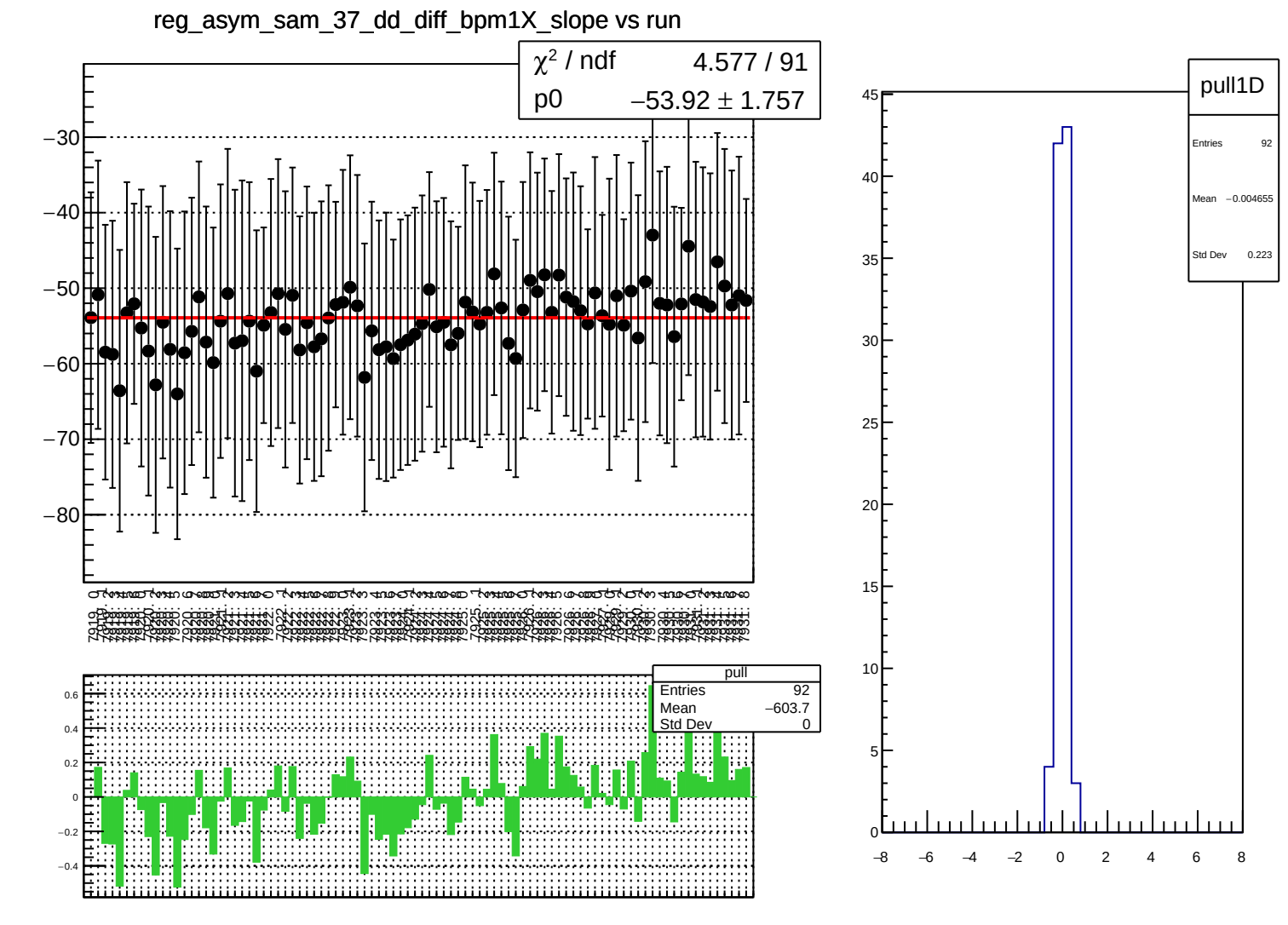

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 2.269 / 91
p0 −55.23 ± 3.309
−20
−40
−60
−80
−100
pull
Entries 92
Mean −452
Std Dev 0
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 92
Mean −0.004183
Std Dev 0.157
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

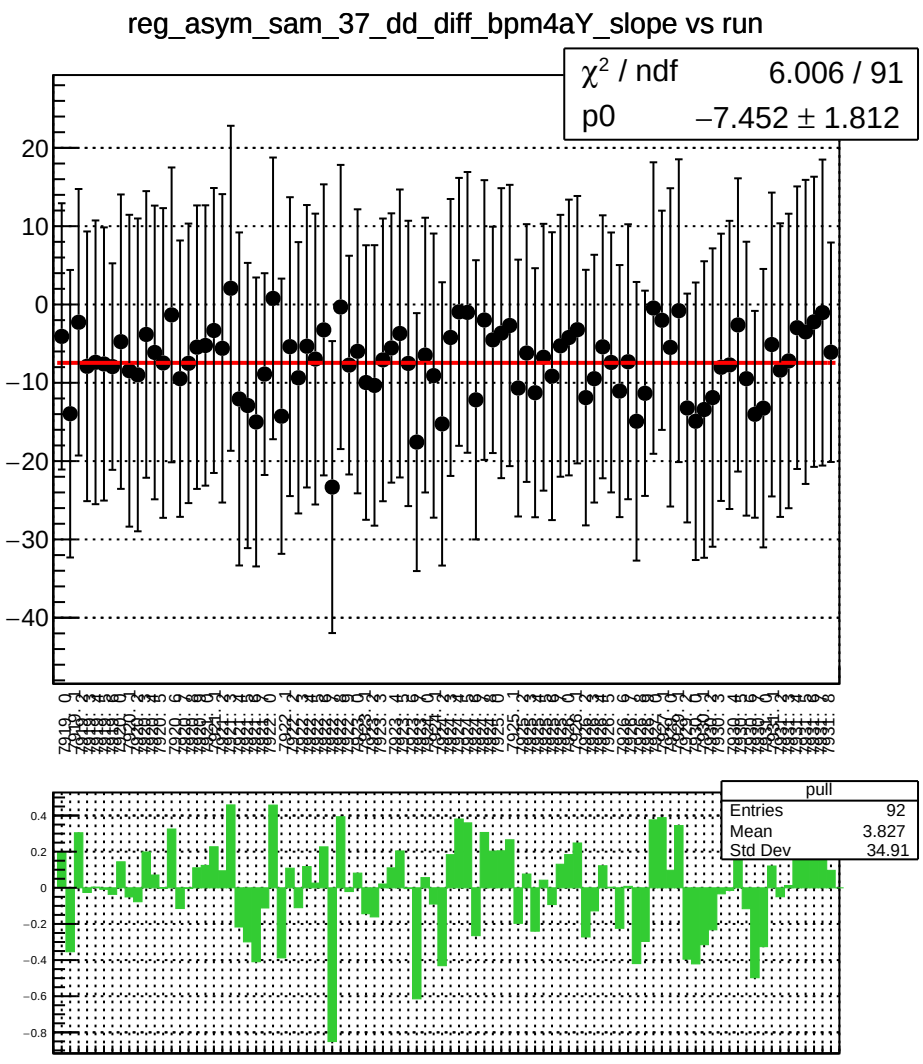

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.778 / 91
p0 11.4 ± 3.412
pull
Entries 92
Mean −618.6
Std Dev 0
pull1D
Entries 92
Mean 0.002463
Std Dev 0.2026

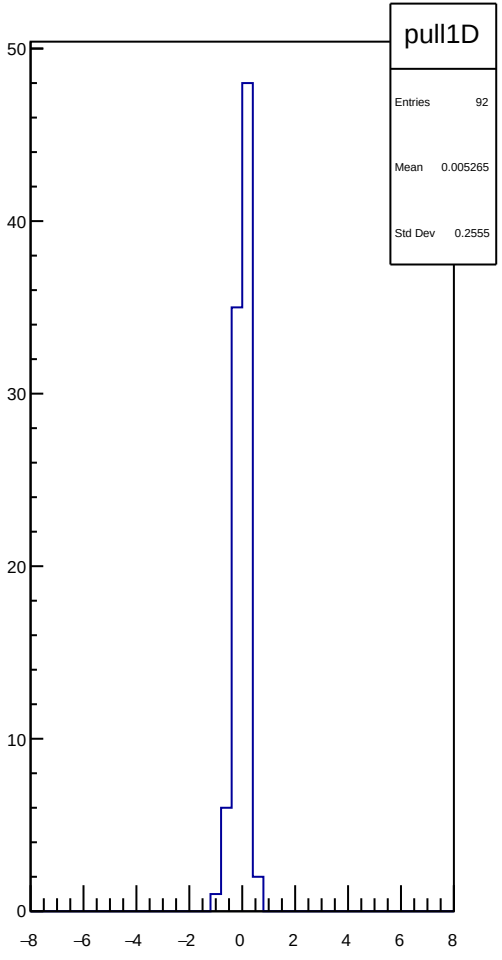

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.338 / 91
p0 −37.41 ± 2.96
pull
Entries 92
Mean −548.7
Std Dev 0
pull1D
Entries 92
Mean 0.00381
Std Dev 0.1594

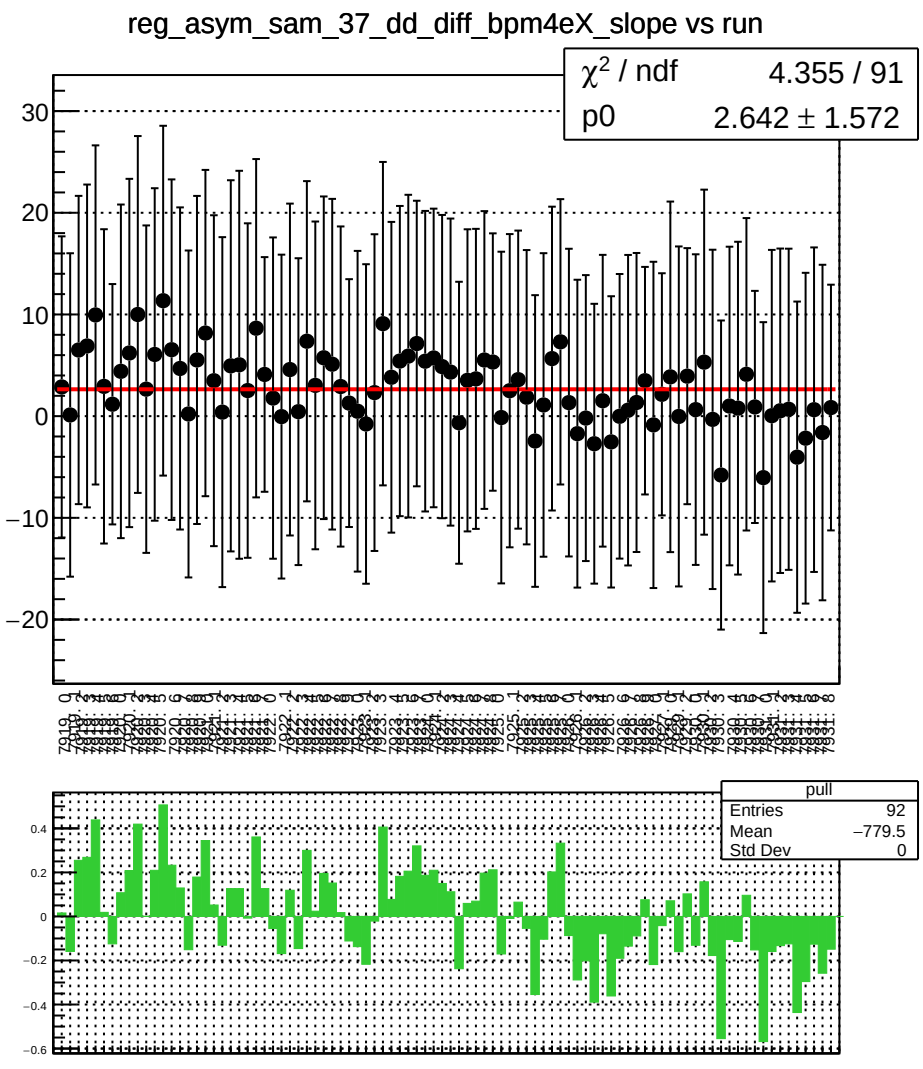

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.538 / 91
p0 −3.517 ± 3.922
pull
Entries 92
Mean −572.6
Std Dev 0
pull1D
Entries 92
Mean −0.002293
Std Dev 0.1961

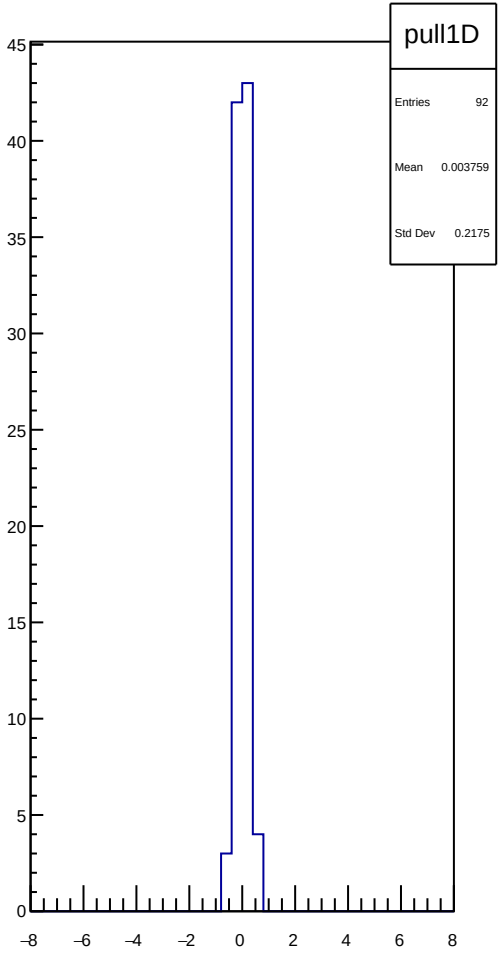

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 3.714 / 91
p0 −0.687 ± 0.1134
pull
Entries 92
Mean 5134
Std Dev 0
pull1D
Entries 92
Mean 0.0003186
Std Dev 0.2009

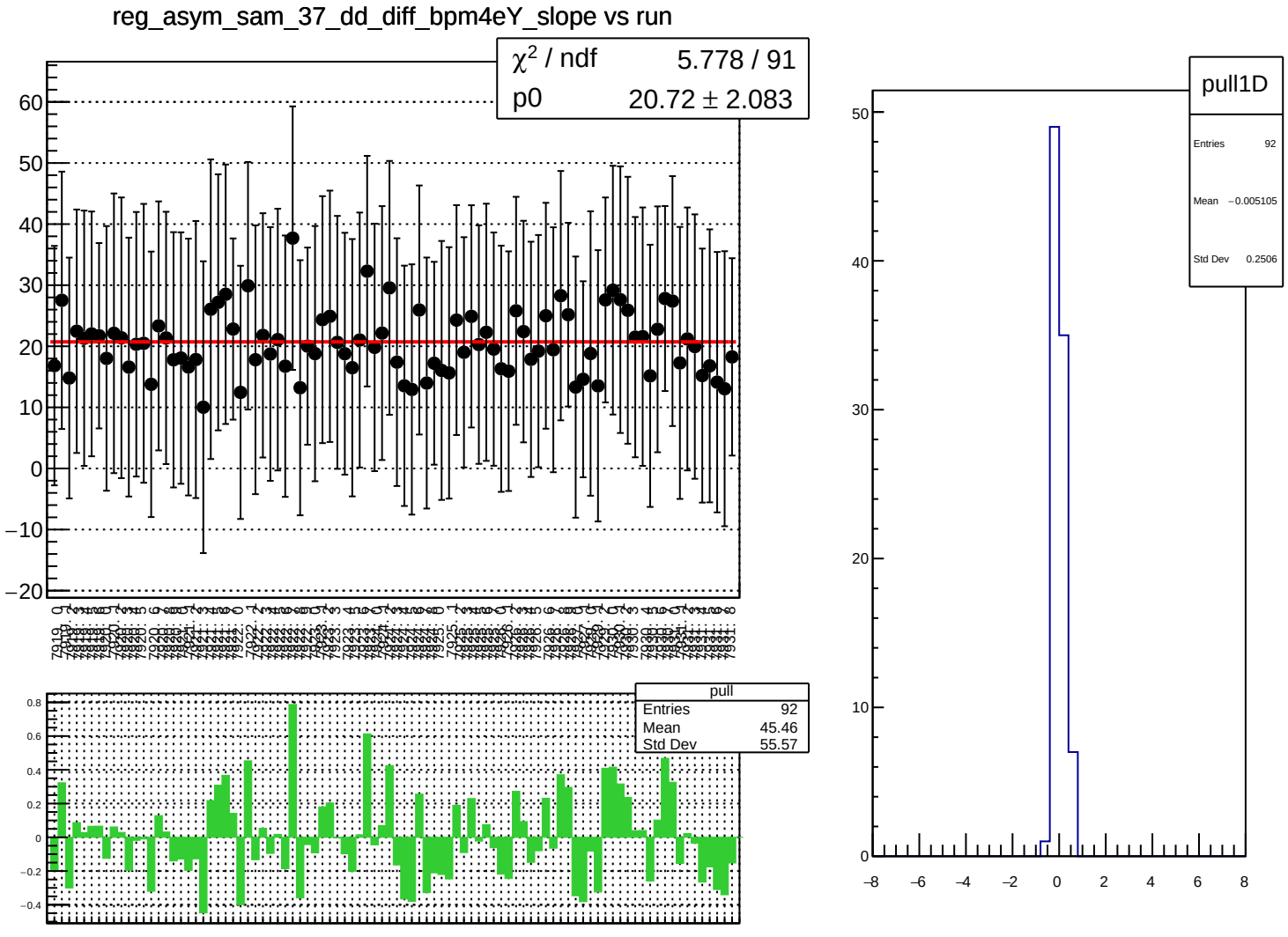

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 4.577 / 91
p0 −53.92 ± 1.757
pull
Entries 92
Mean −603.7
Std Dev 0
pull1D
Entries 92
Mean −0.004655
Std Dev 0.223

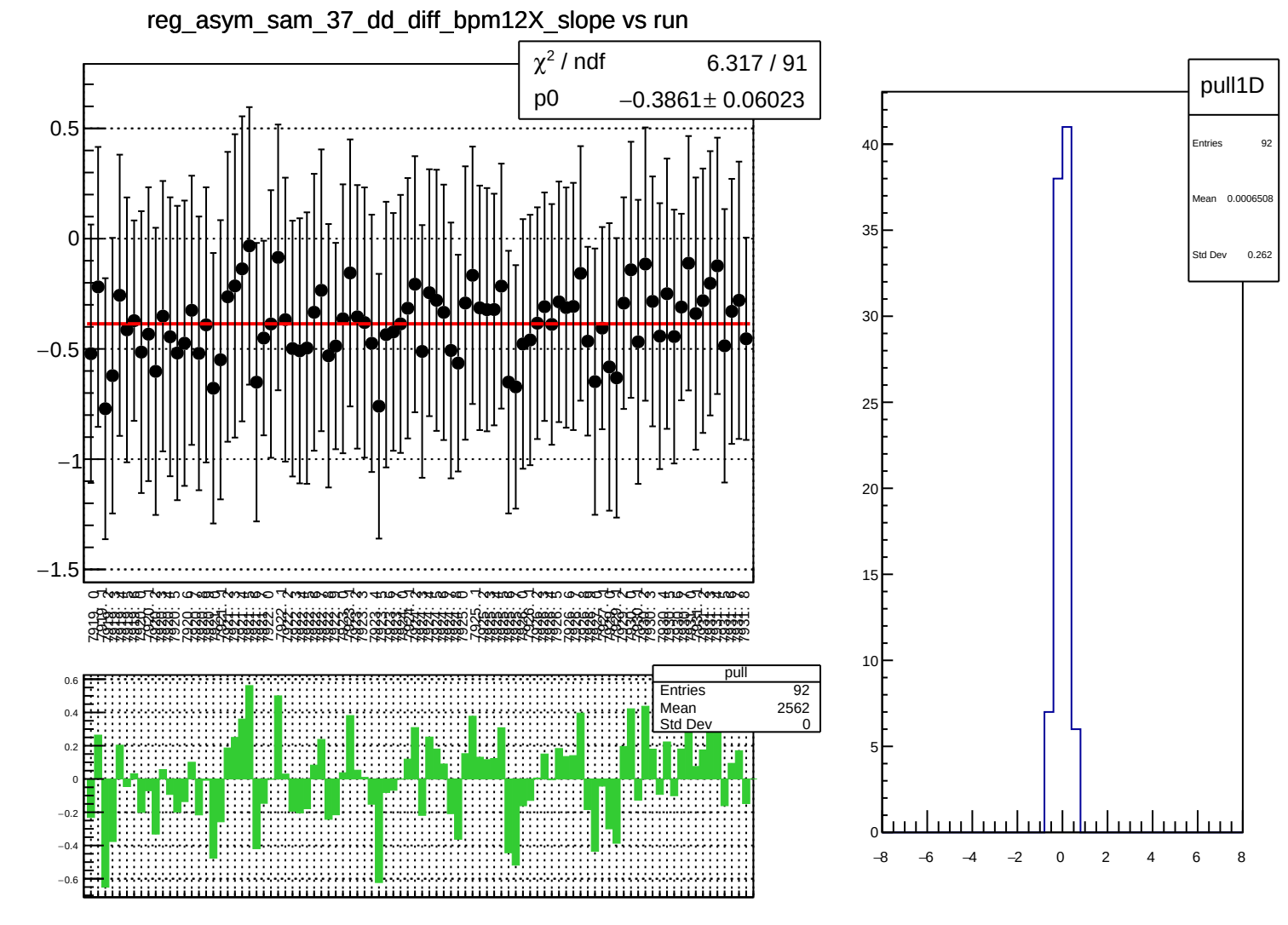

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.006 / 91
p0 −7.452 ± 1.812
pull
Entries 92
Mean 3.827
Std Dev 34.91

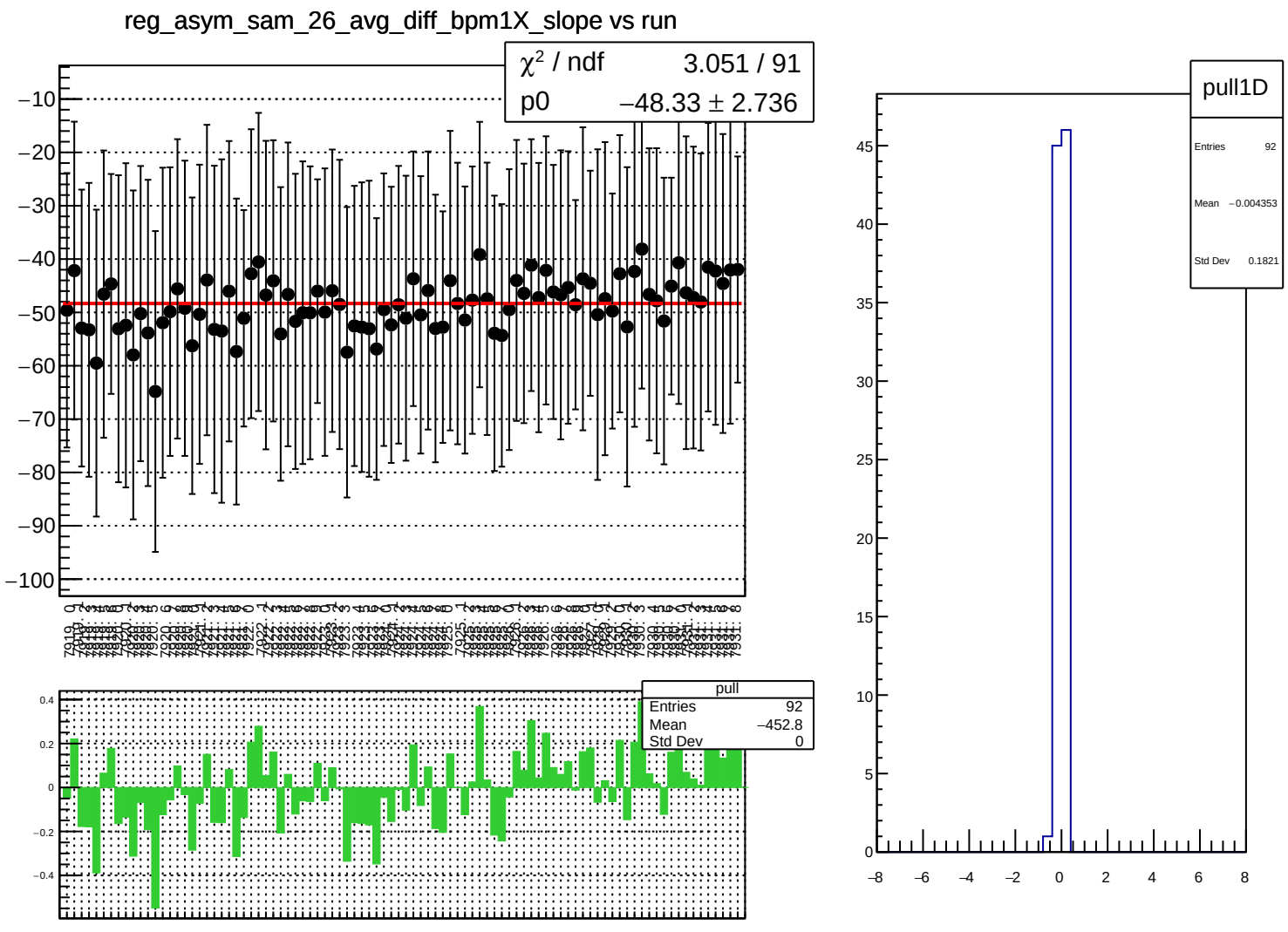

pull1D
Entries 92
Mean 0.005265
Std Dev 0.2555

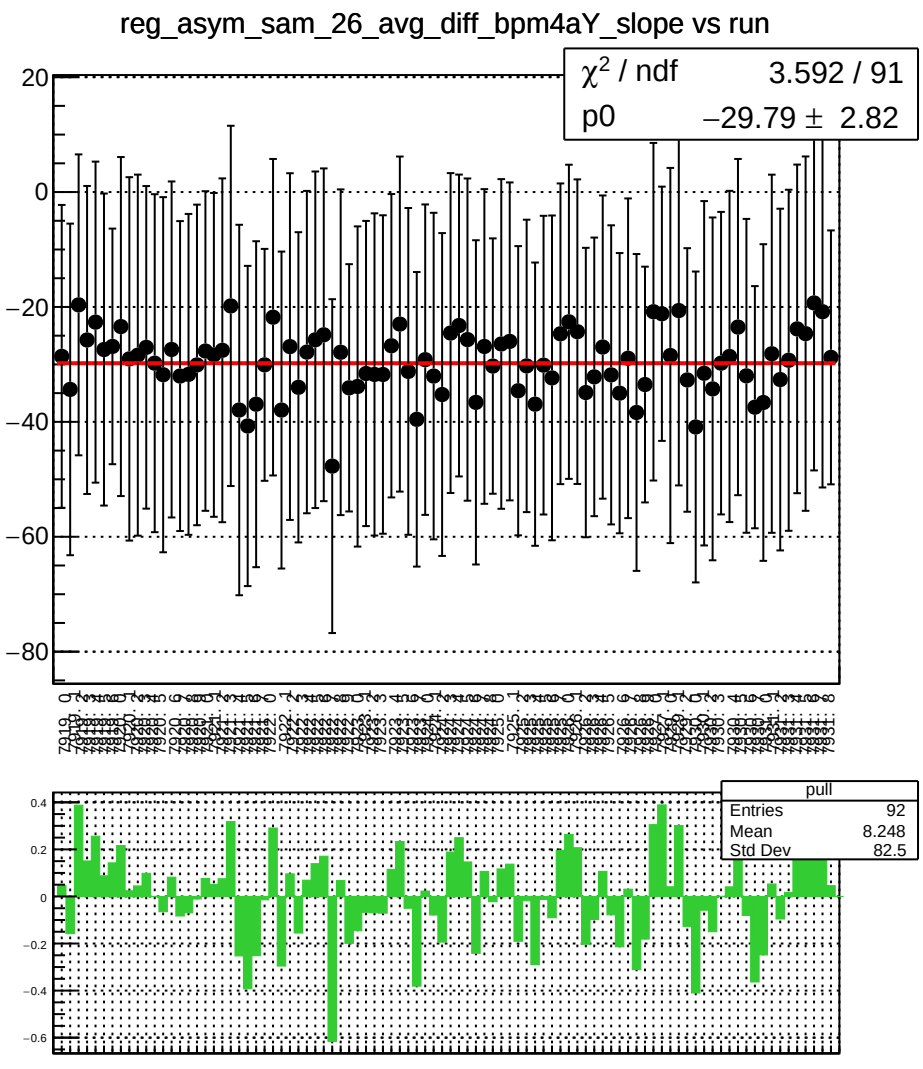

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.355 / 91
p0 2.642 ± 1.572
pull
Entries 92
Mean −779.5
Std Dev 0

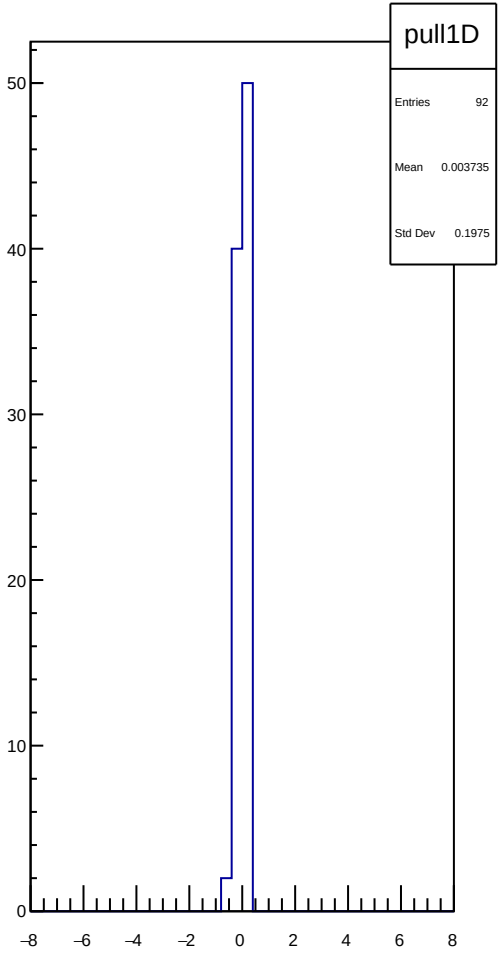

pull1D
Entries 92
Mean 0.003759
Std Dev 0.2175

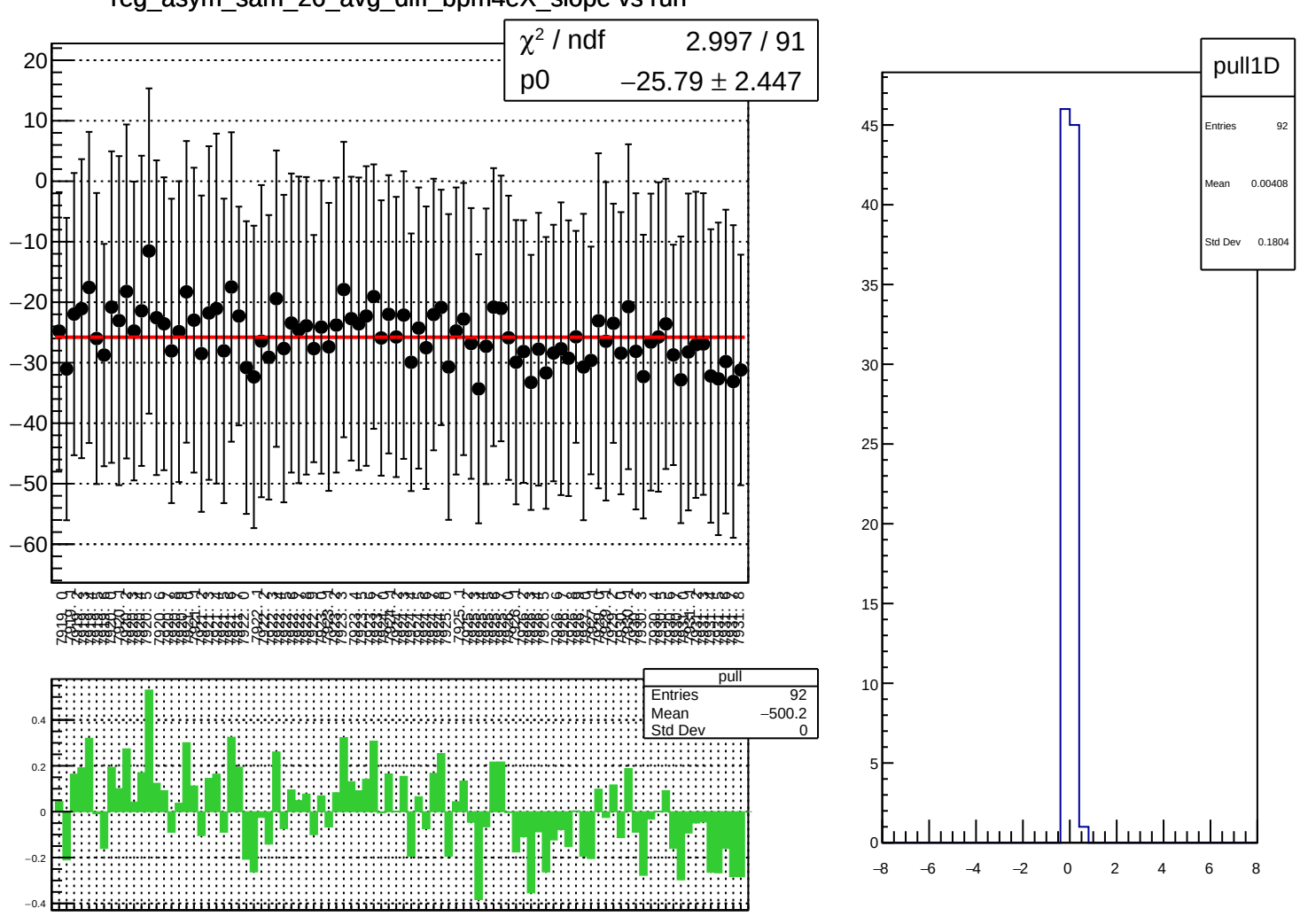

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.778 / 91
p0 20.72 ± 2.083
pull
Entries 92
Mean 45.46
Std Dev 55.57
pull1D
Entries 92
Mean −0.005105
Std Dev 0.2506

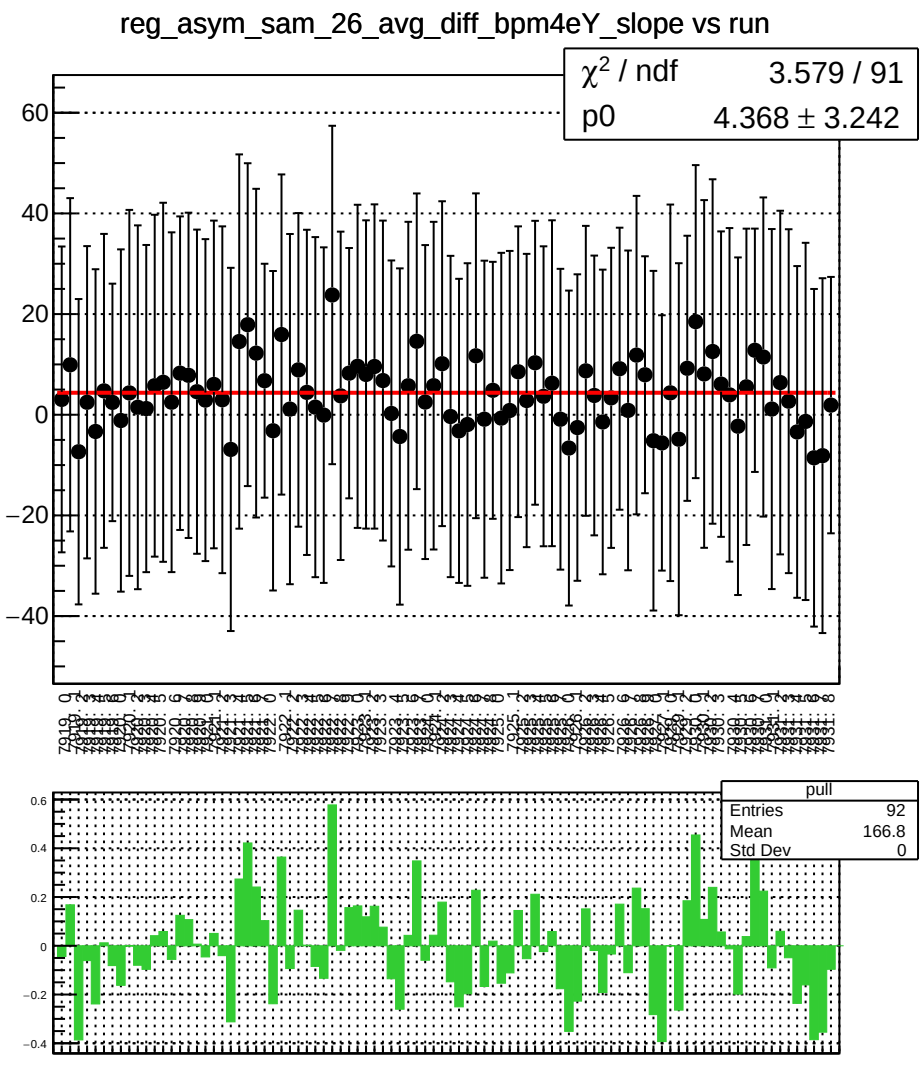

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 6.317 / 91
p0 −0.3861 ± 0.06023
pull
Entries 92
Mean 2562
Std Dev 0
pull1D
Entries 92
Mean 0.0006508
Std Dev 0.262

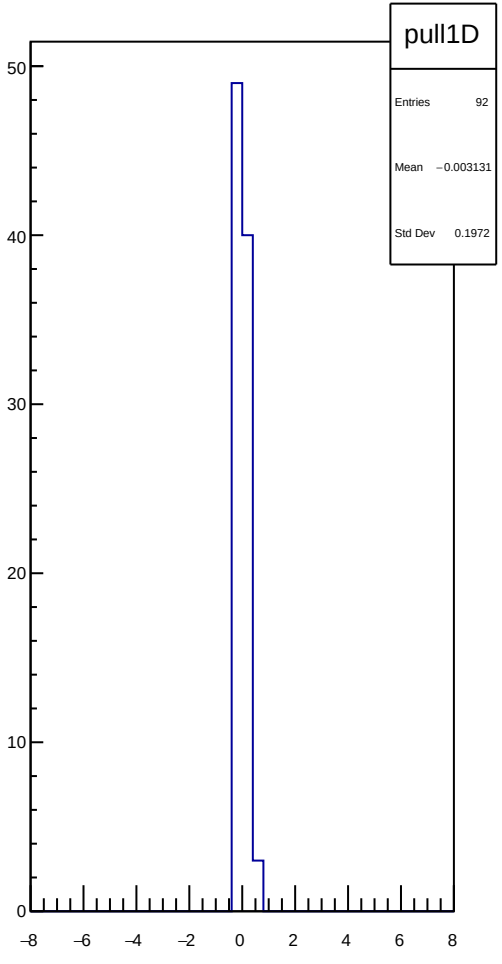

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ^2 / ndf 3.051 / 91
p0 −48.33 ± 2.736
pull
Entries 92
Mean −452.8
Std Dev 0
pull1D
Entries 92
Mean −0.004353
Std Dev 0.1821

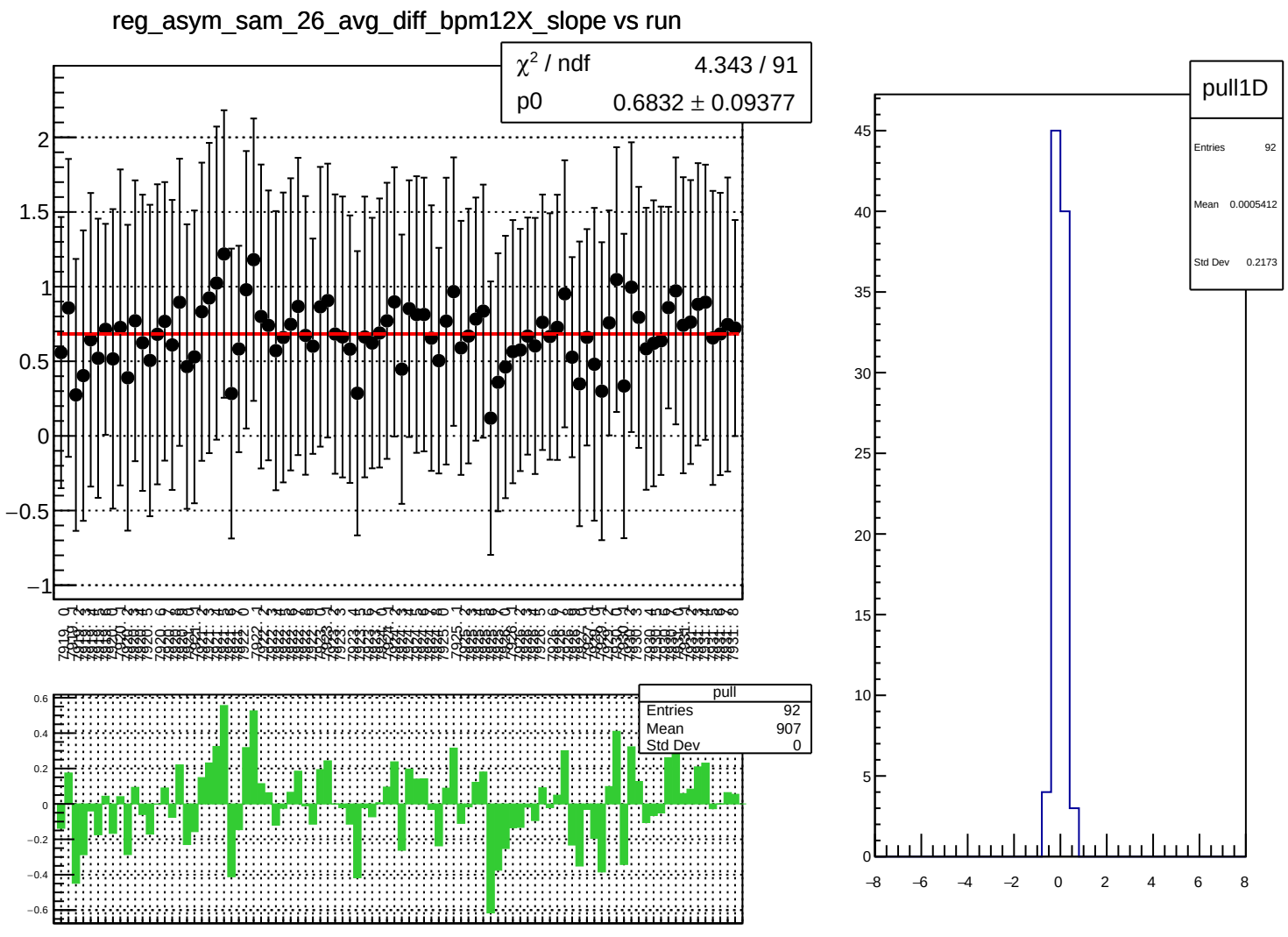

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.592 / 91
p0 −29.79 ± 2.82
pull
Entries 92
Mean 8.248
Std Dev 82.5

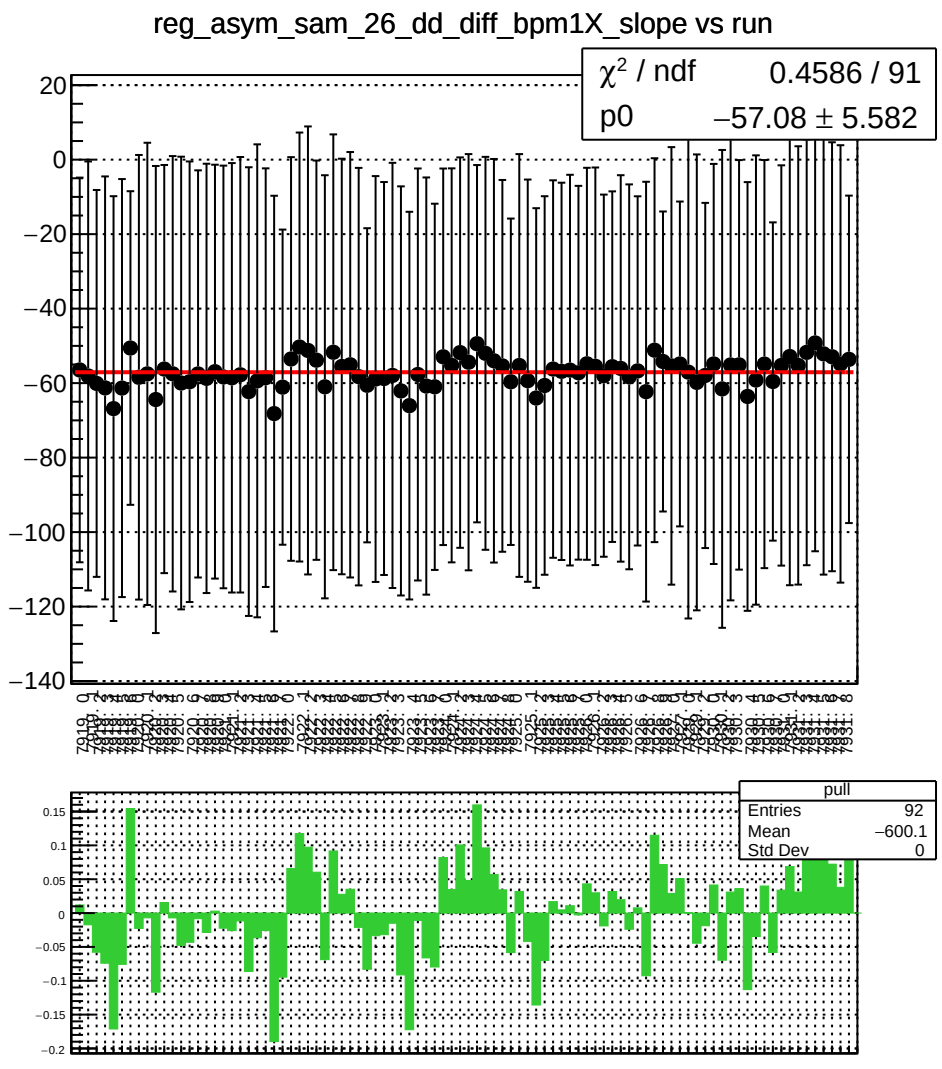

pull1D
Entries 92
Mean 0.003735
Std Dev 0.1975

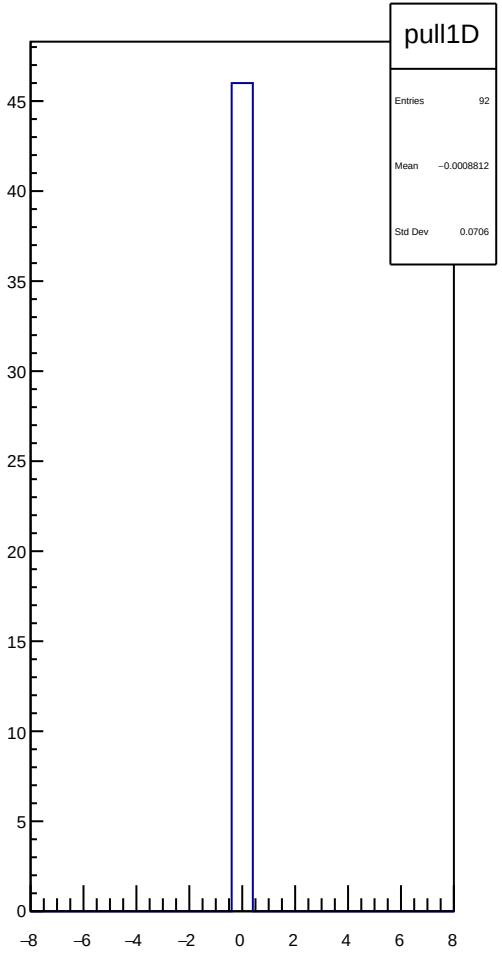

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.997 / 91
p0 −25.79 ± 2.447
pull
Entries 92
Mean −500.2
Std Dev 0
pull1D
Entries 92
Mean 0.00408
Std Dev 0.1804

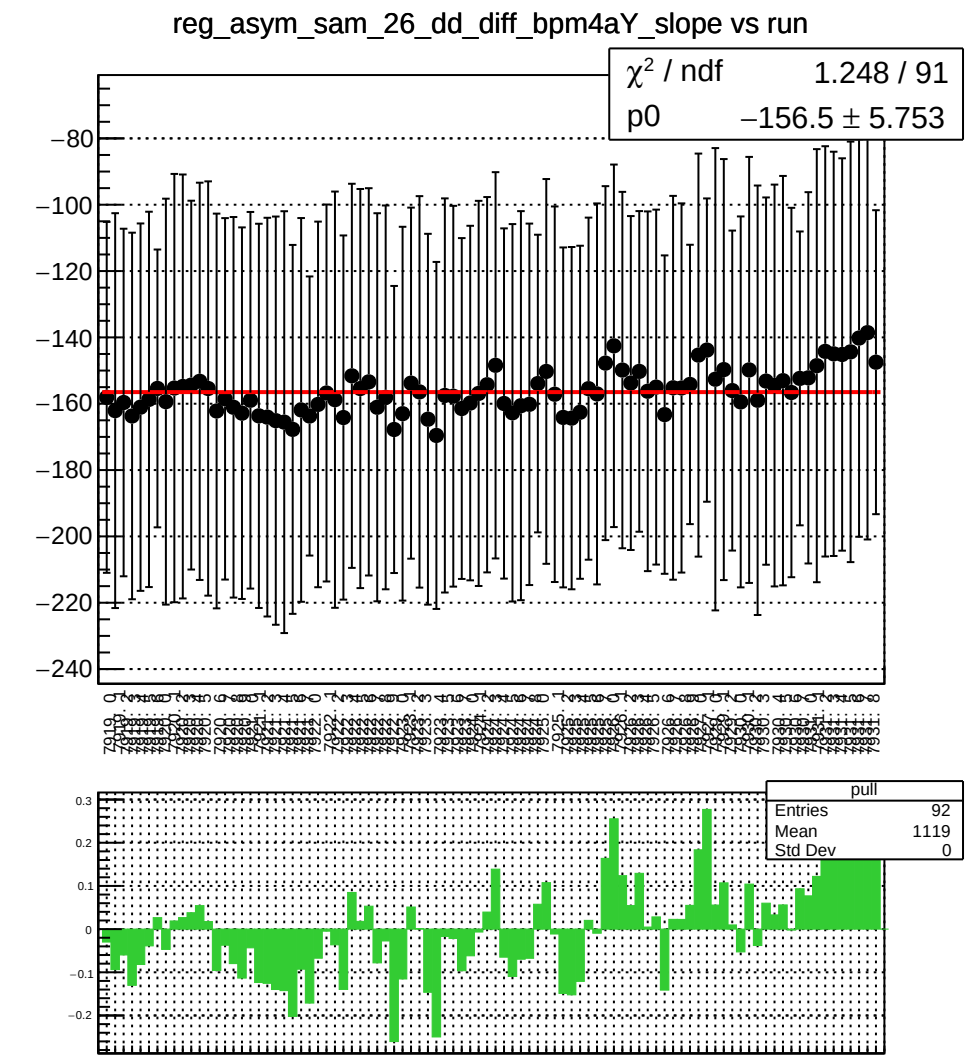

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.579 / 91
p0 4.368 ± 3.242
pull
Entries 92
Mean 166.8
Std Dev 0

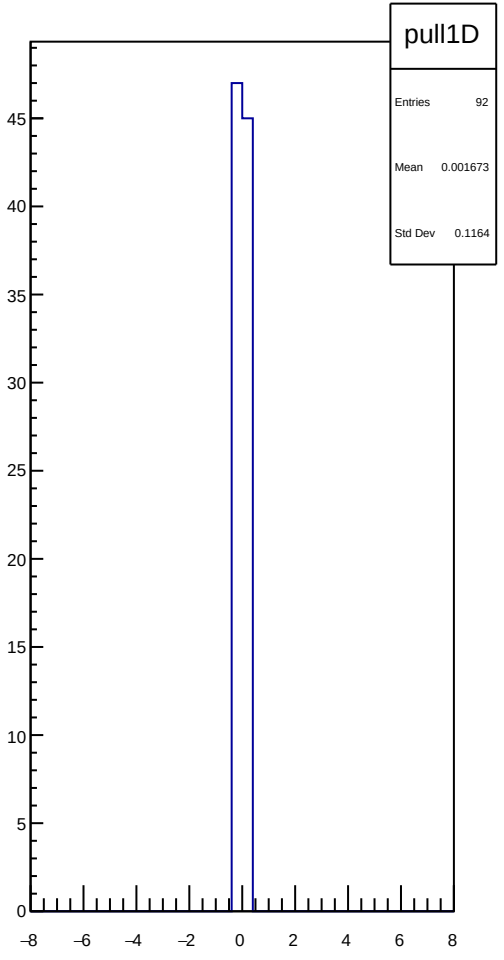

pull1D
Entries 92
Mean −0.003131
Std Dev 0.1972

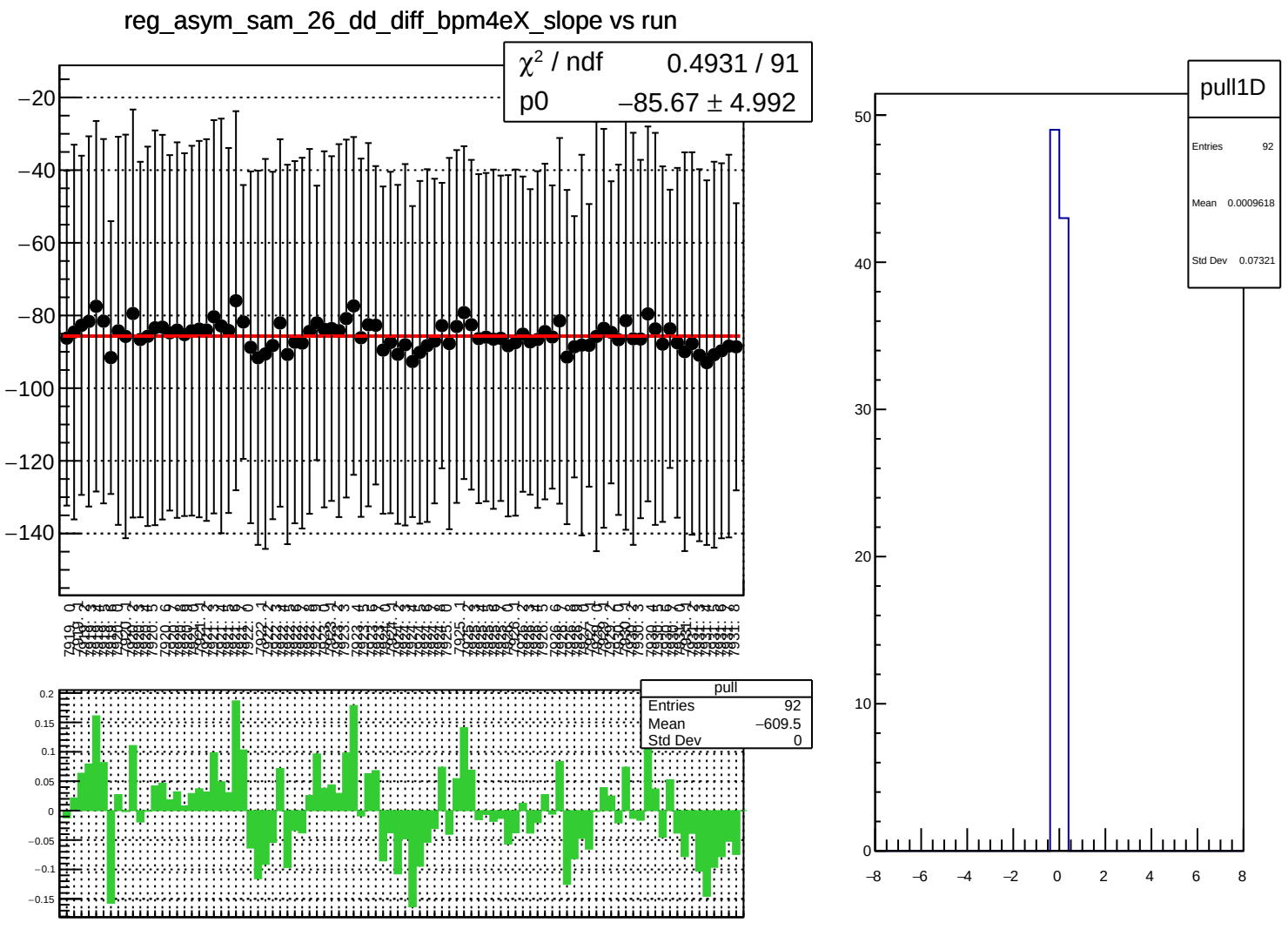

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 4.343 / 91
p0 0.6832 ± 0.09377
pull
Entries 92
Mean 907
Std Dev 0
pull1D
Entries 92
Mean 0.0005412
Std Dev 0.2173

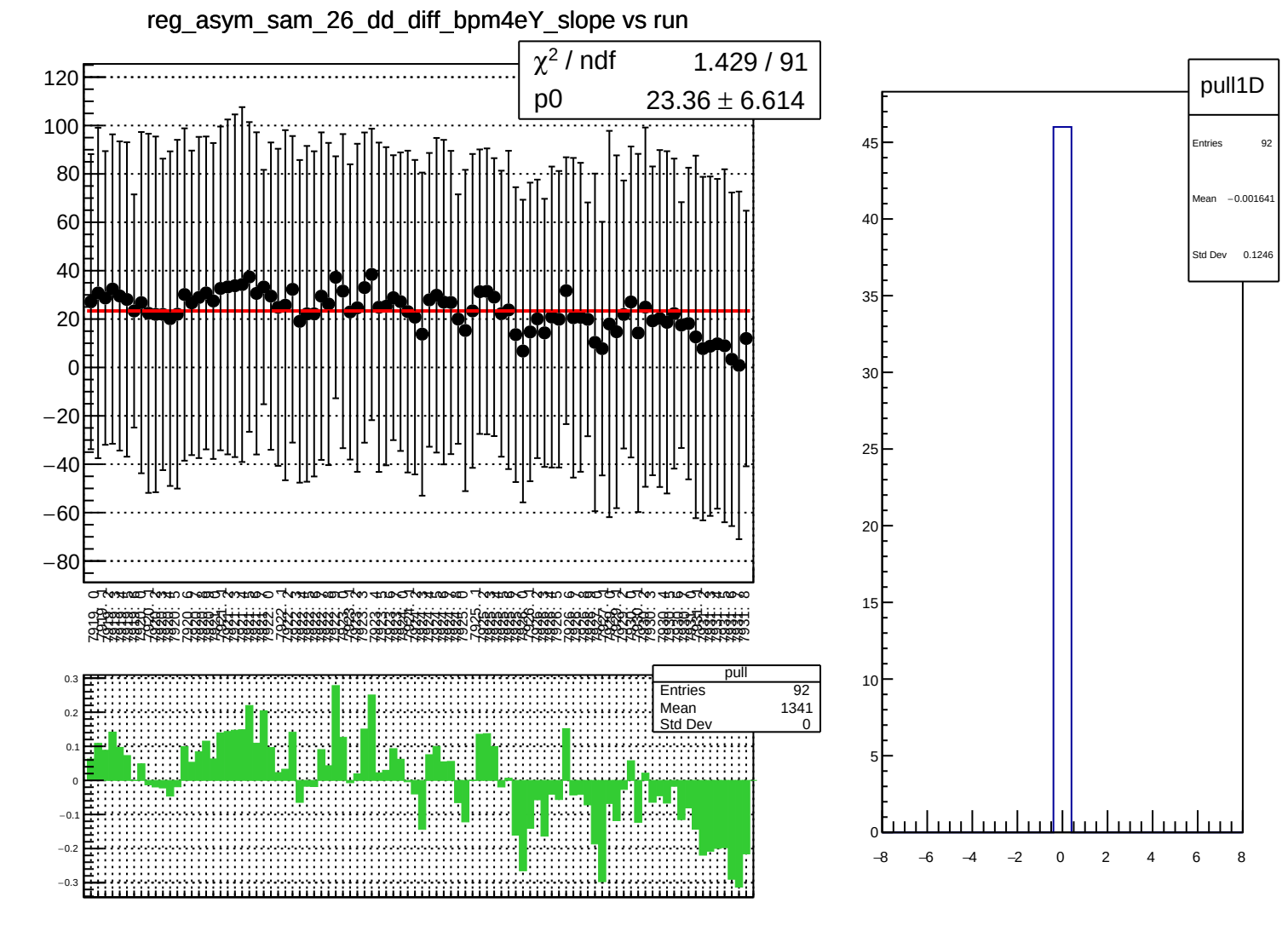

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 0.4586 / 91
p0 −57.08 ± 5.582
pull
Entries 92
Mean −600.1
Std Dev 0

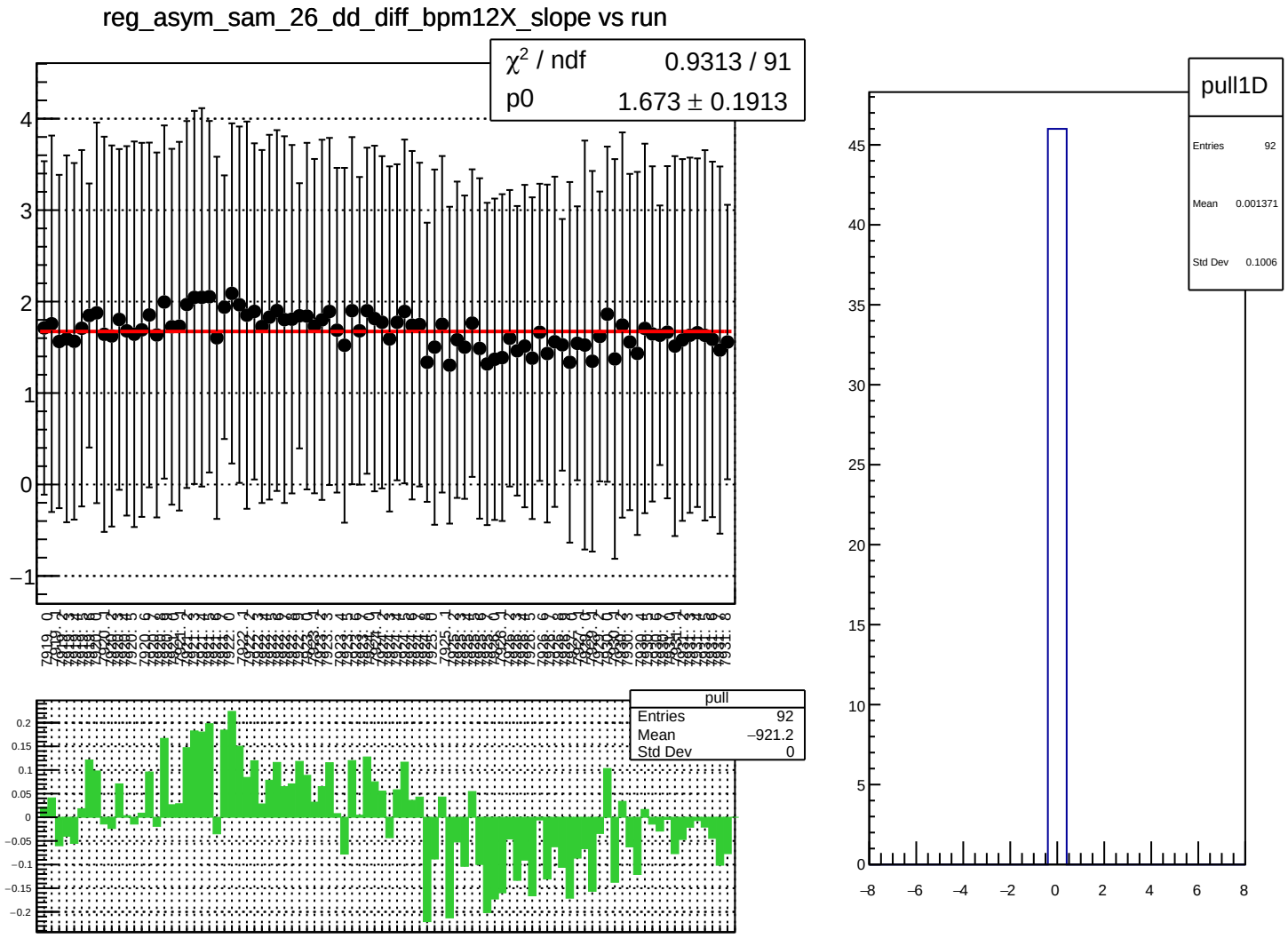

pull1D
Entries 92
Mean −0.0008812
Std Dev 0.0706

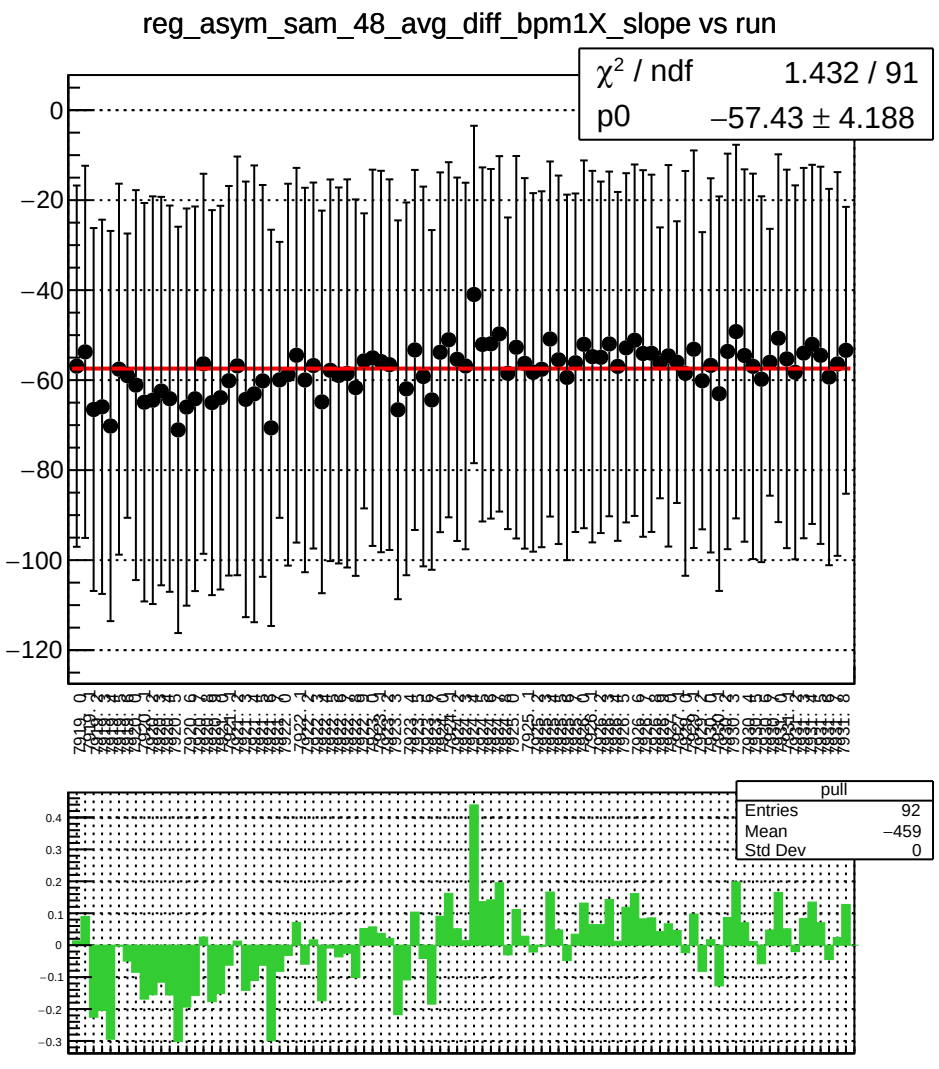

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.248 / 91
p0 −156.5 ± 5.753
pull
Entries 92
Mean 1119
Std Dev 0

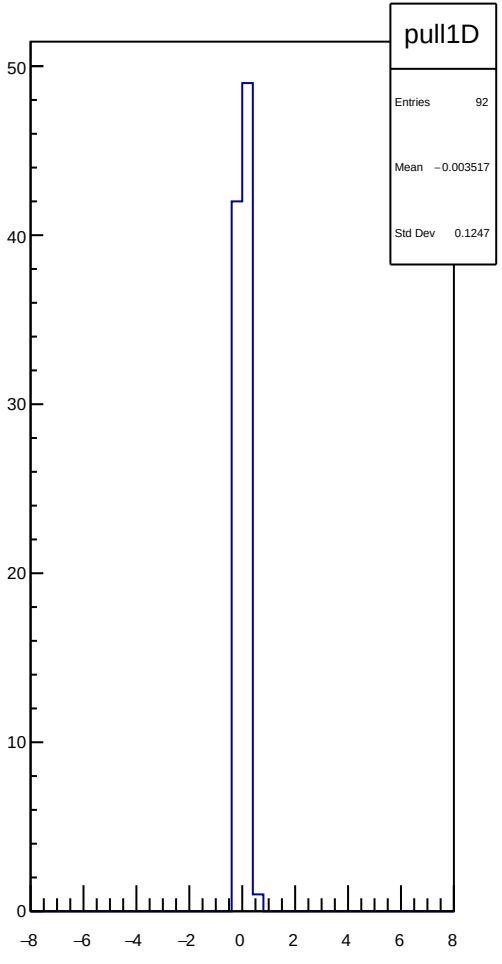

pull1D
Entries 92
Mean 0.001673
Std Dev 0.1164

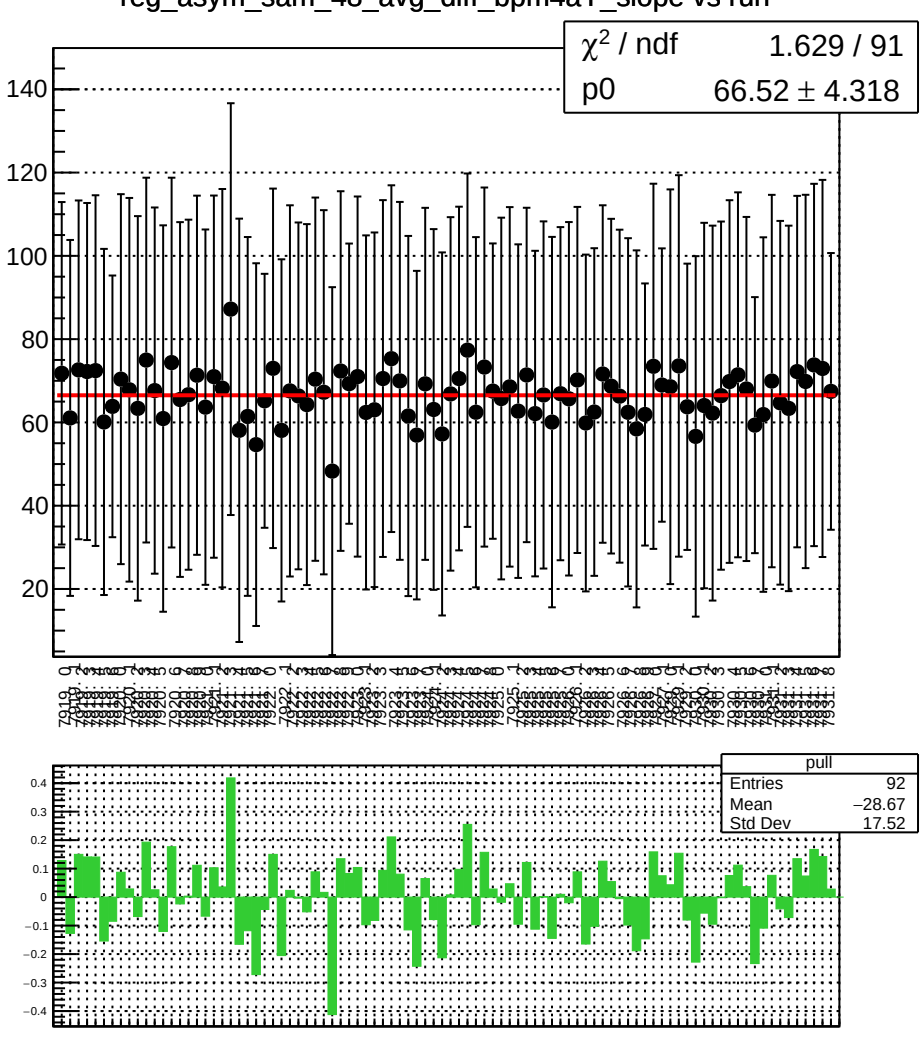

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.4931 / 91
p0 −85.67 ± 4.992
pull
Entries 92
Mean −609.5
Std Dev 0
pull1D
Entries 92
Mean 0.0009618
Std Dev 0.07321

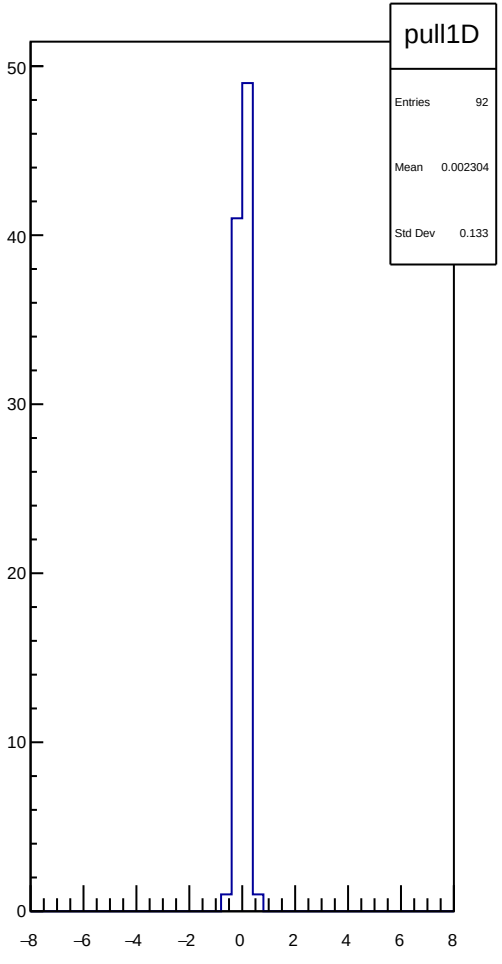

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.429 / 91
p0 23.36 ± 6.614
pull
Entries 92
Mean 1341
Std Dev 0
pull1D
Entries 92
Mean −0.001641
Std Dev 0.1246

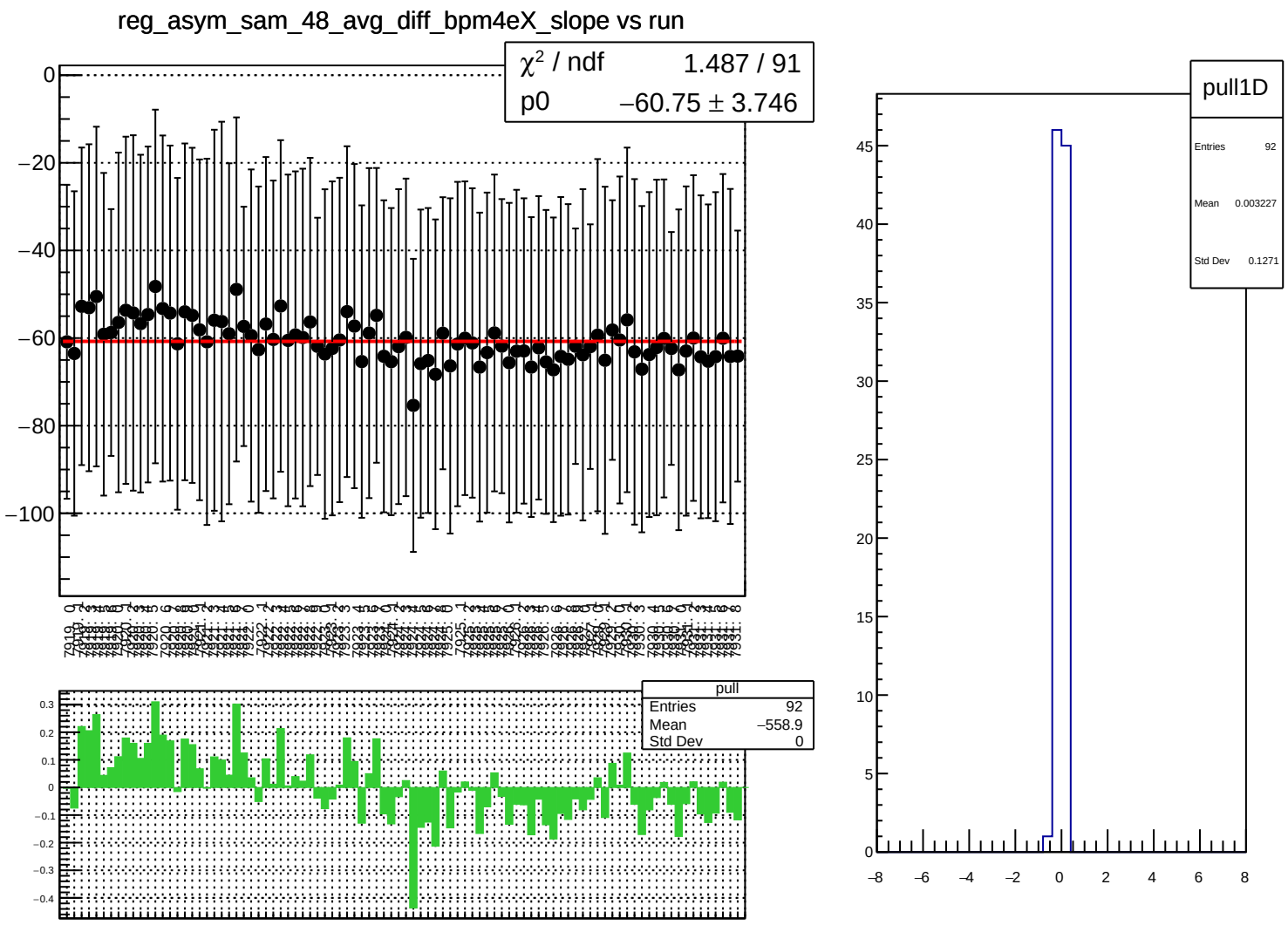

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 0.9313 / 91
p0 1.673 ± 0.1913
pull
Entries 92
Mean −921.2
Std Dev 0
pull1D
Entries 92
Mean 0.001371
Std Dev 0.1006

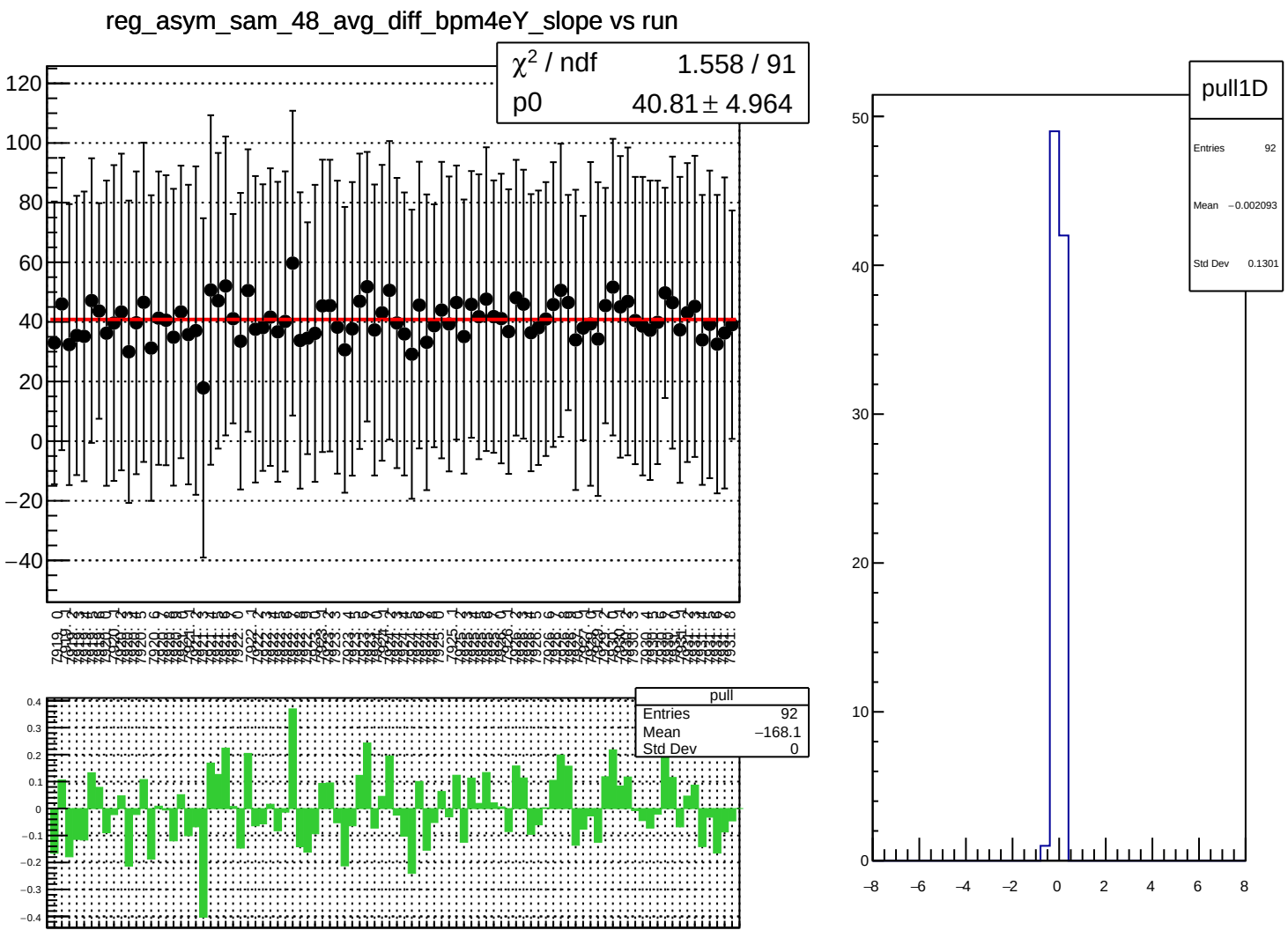

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 1.432 / 91
p0 −57.43 ± 4.188
pull
Entries 92
Mean −459
Std Dev 0

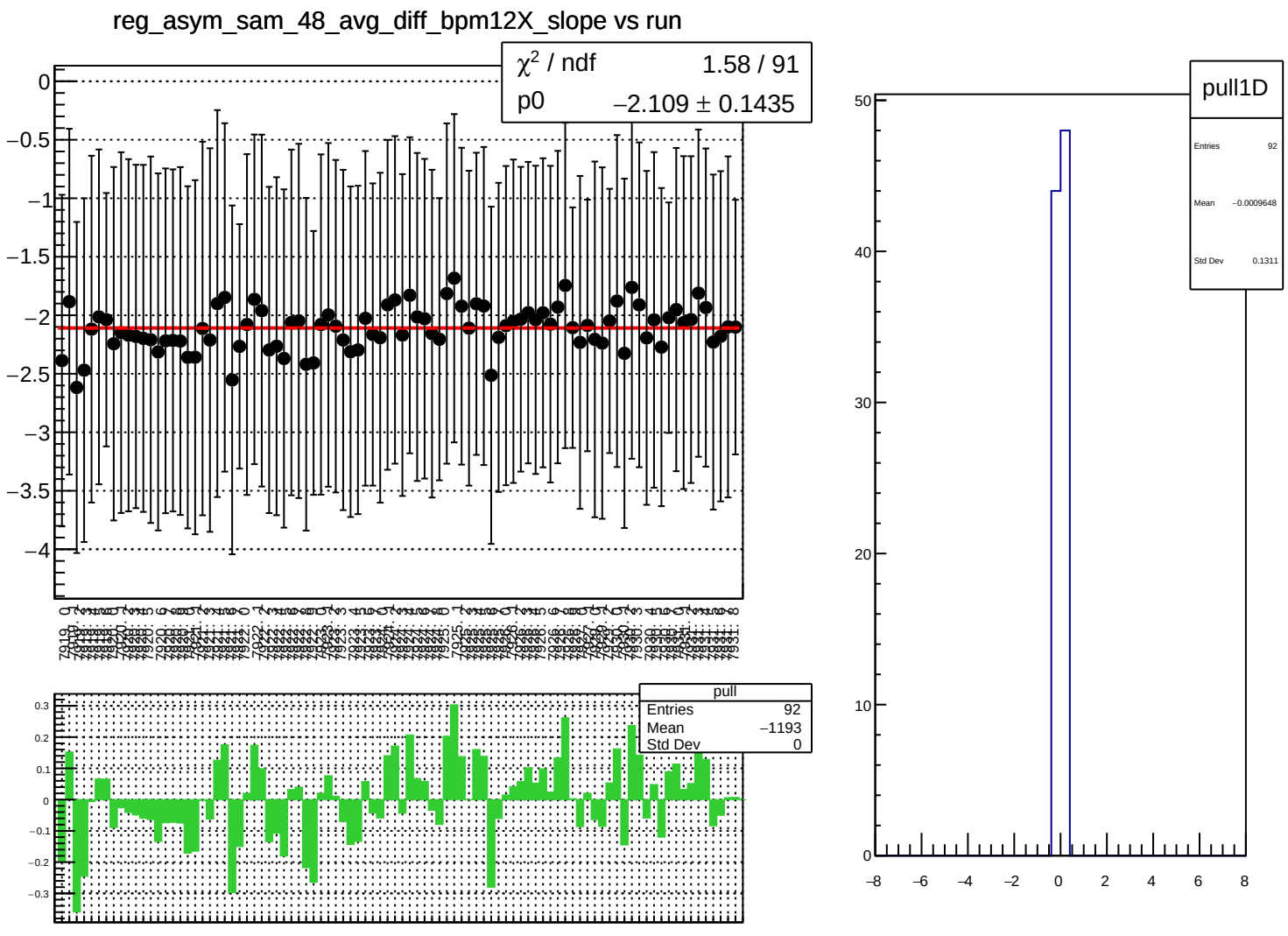

pull1D
Entries 92
Mean −0.003517
Std Dev 0.1247

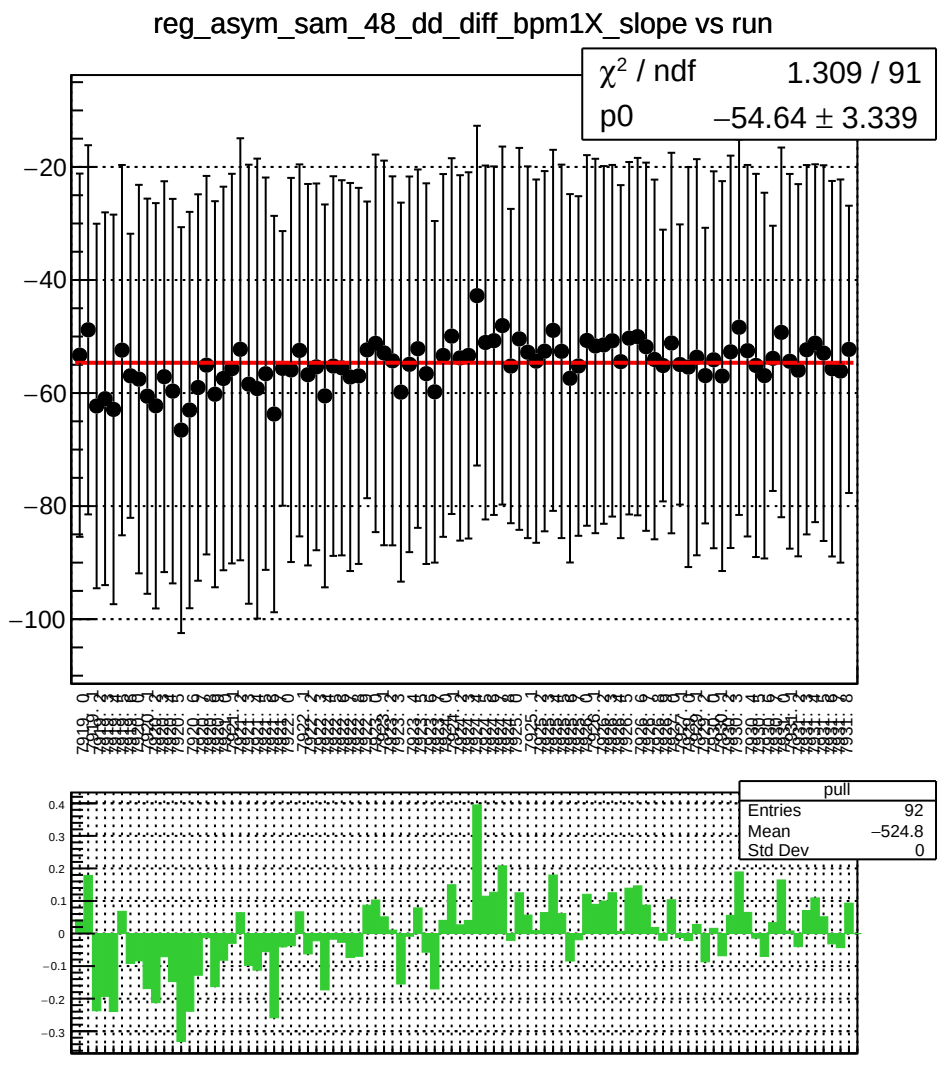

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.629 / 91
p0 66.52 ± 4.318
pull
Entries 92
Mean −28.67
Std Dev 17.52

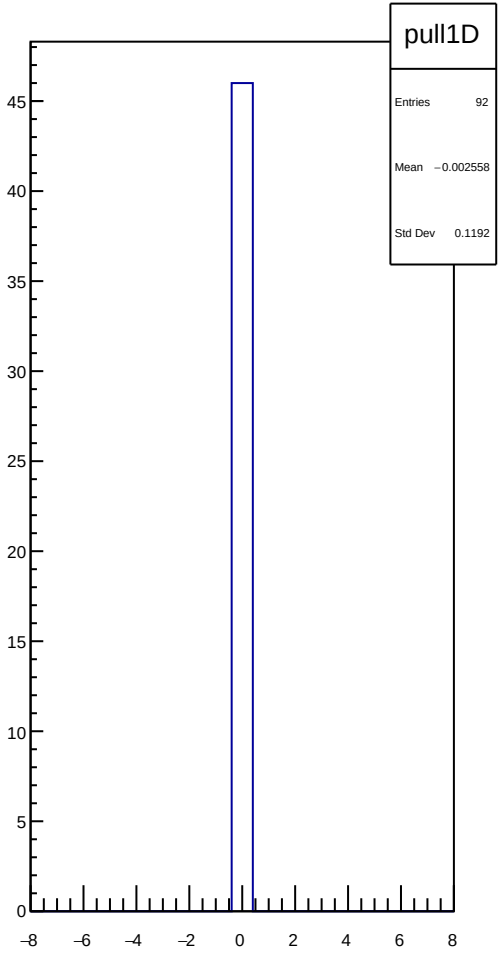

pull1D
Entries 92
Mean 0.002304
Std Dev 0.133

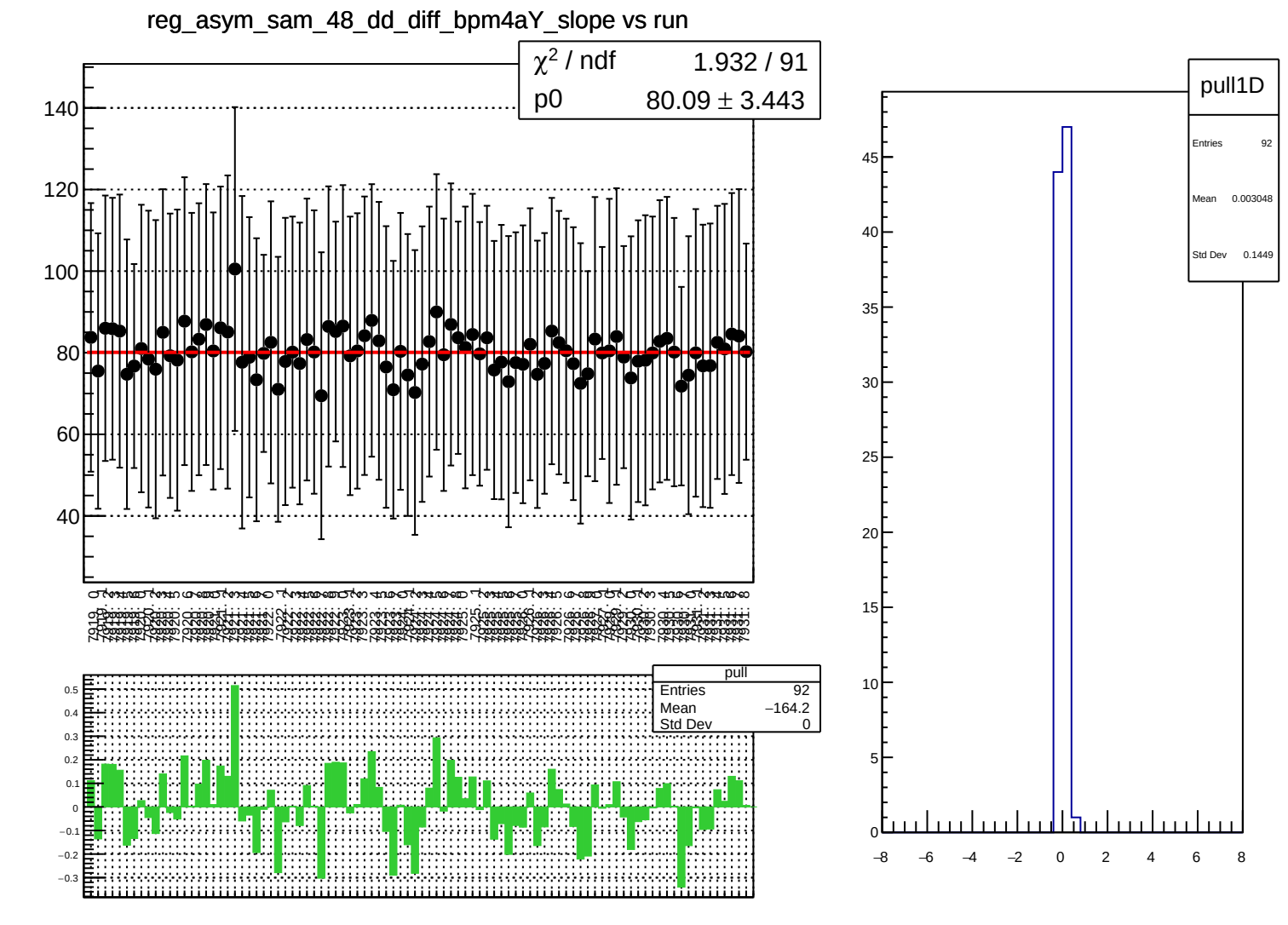

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.487 / 91
p0 −60.75 ± 3.746
pull
Entries 92
Mean −558.9
Std Dev 0
pull1D
Entries 92
Mean 0.003227
Std Dev 0.1271

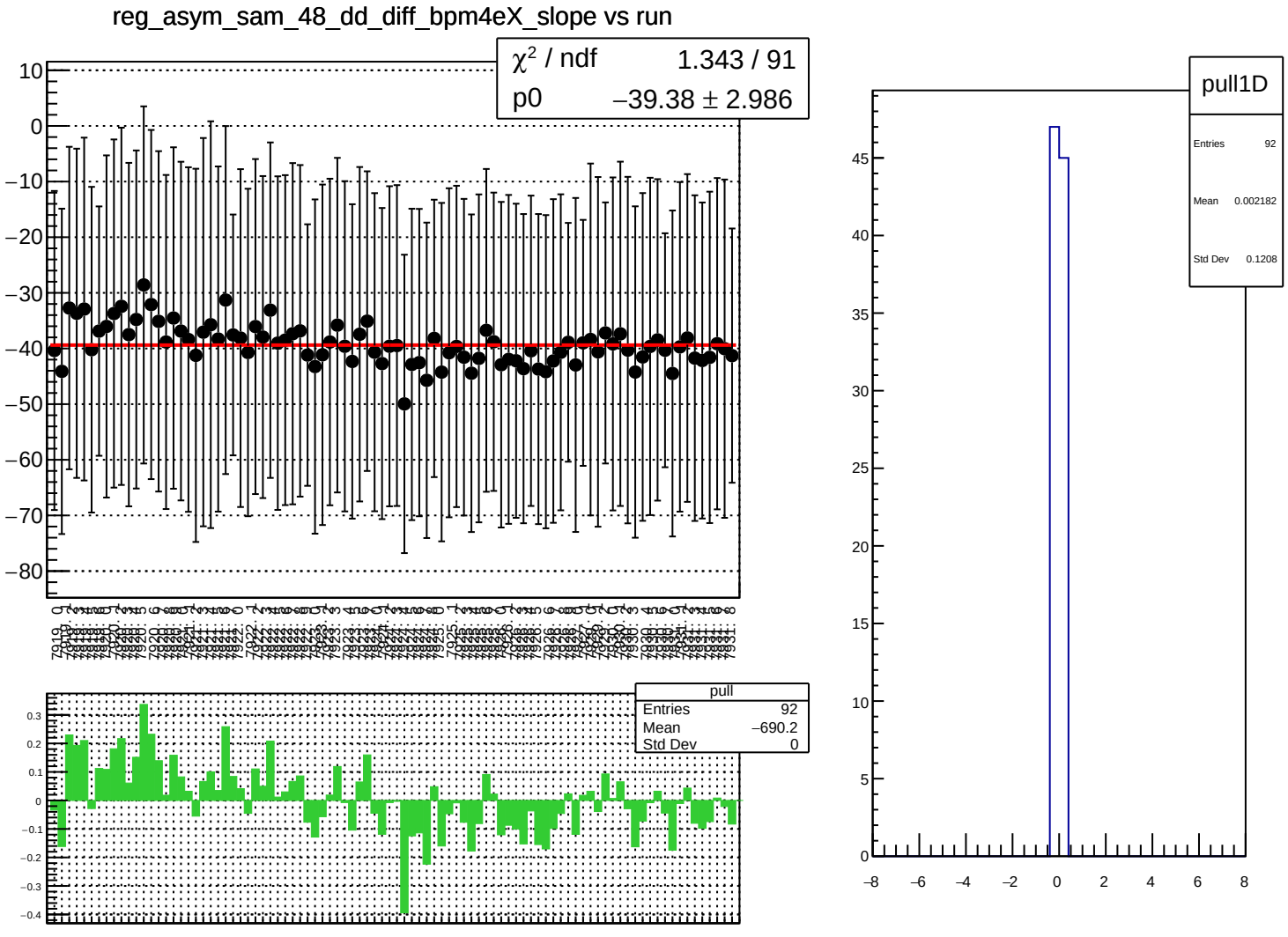

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.558 / 91
p0 40.81 ± 4.964
pull
Entries 92
Mean −168.1
Std Dev 0
pull1D
Entries 92
Mean −0.002093
Std Dev 0.1301

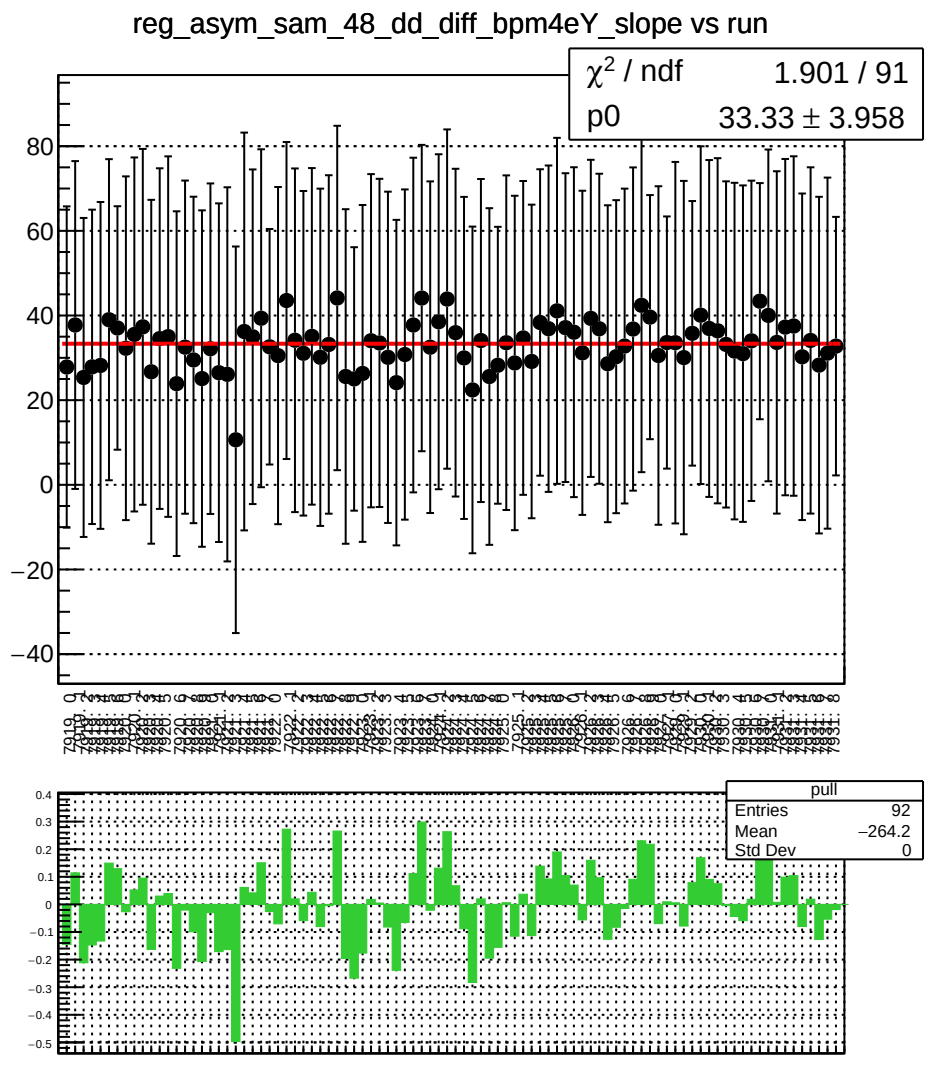

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 1.58 / 91
p0 −2.109 ± 0.1435
pull
Entries 92
Mean −1193
Std Dev 0
pull1D
Entries 92
Mean −0.0009648
Std Dev 0.1311

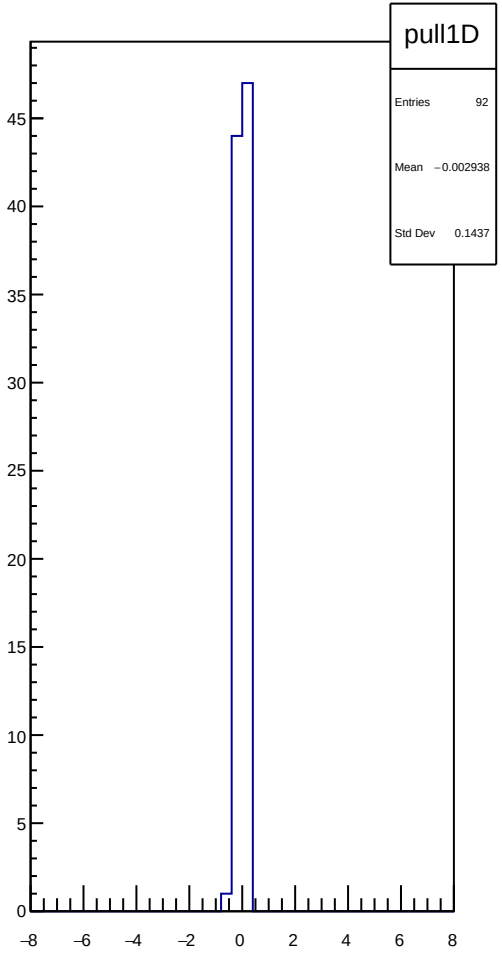

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 1.309 / 91
p0 −54.64 ± 3.339
pull
Entries 92
Mean −524.8
Std Dev 0

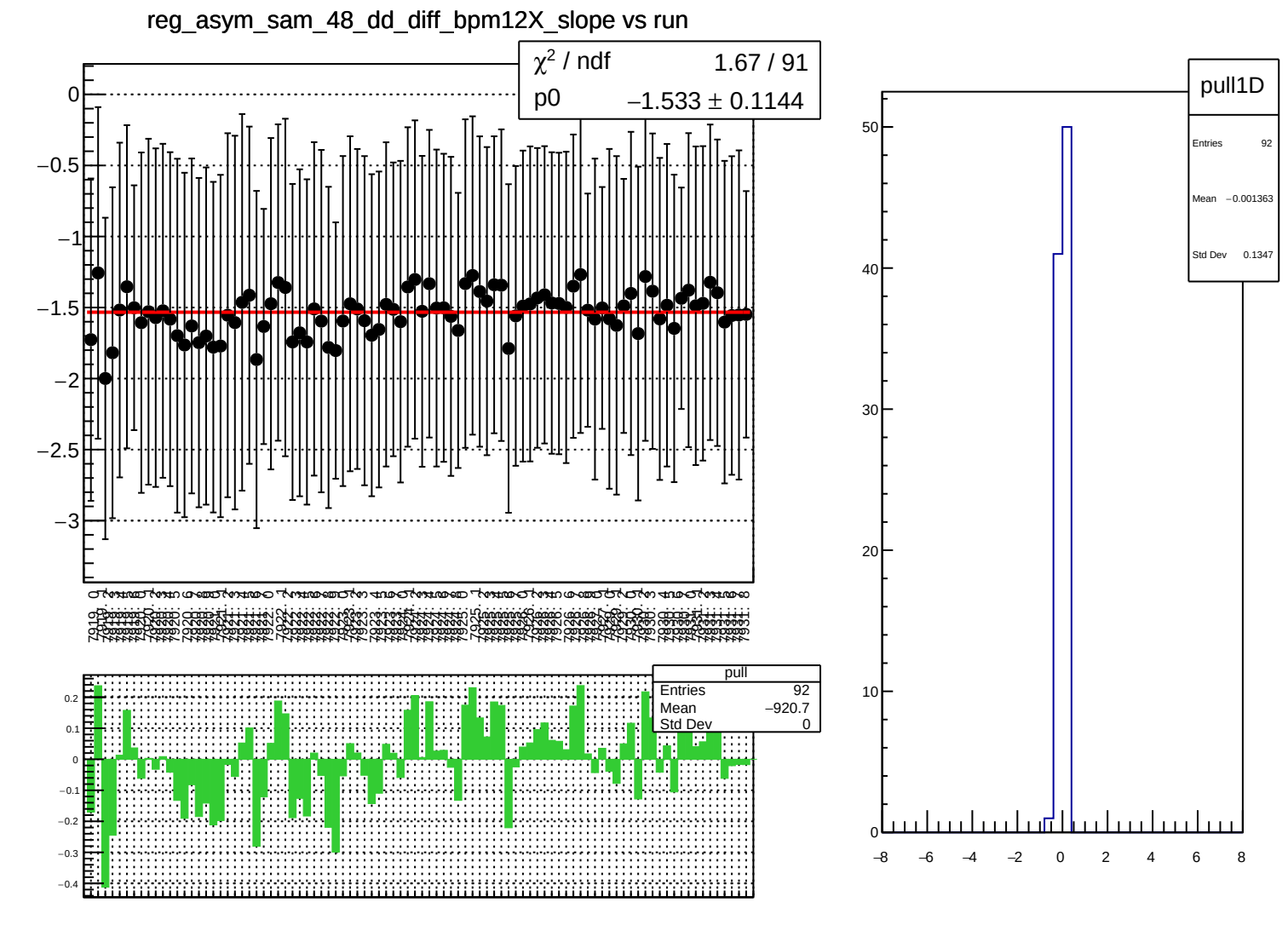

pull1D
Entries 92
Mean −0.002558
Std Dev 0.1192

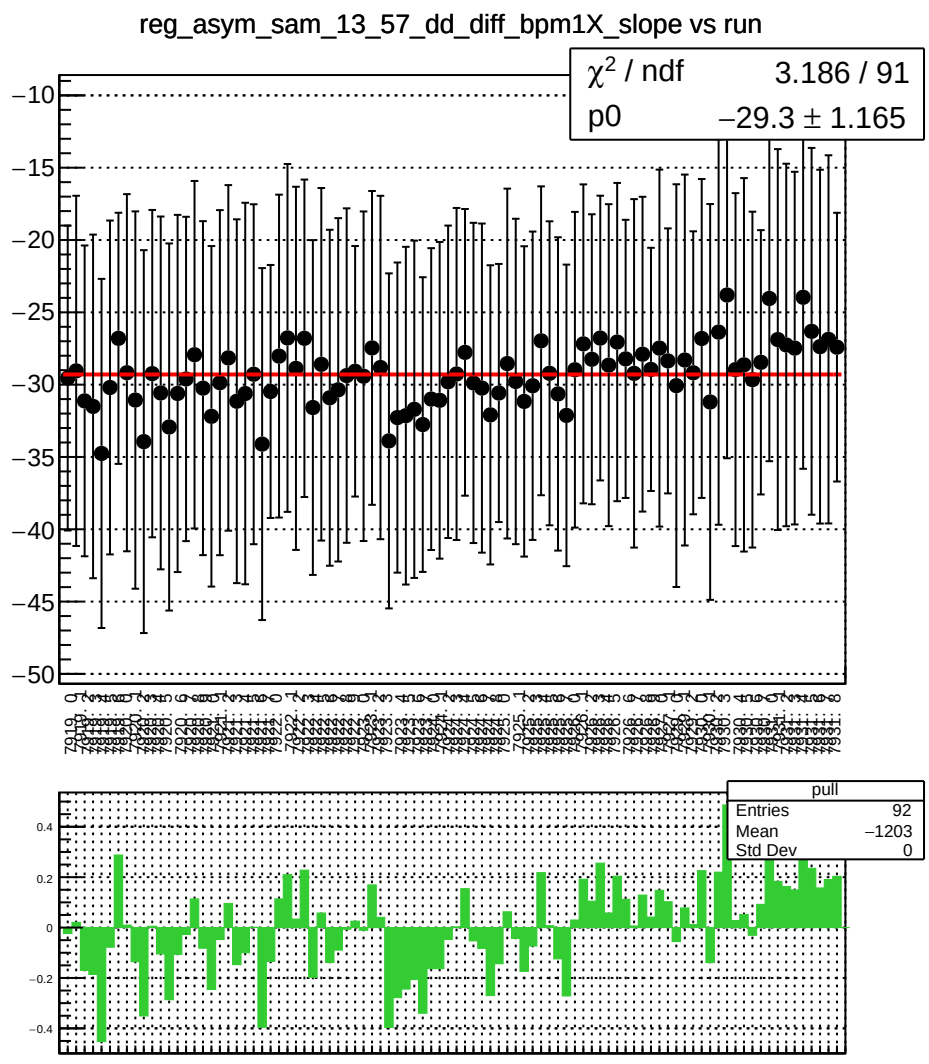

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.932 / 91
p0 80.09 ± 3.443
pull
Entries 92
Mean −164.2
Std Dev 0
pull1D
Entries 92
Mean 0.003048
Std Dev 0.1449

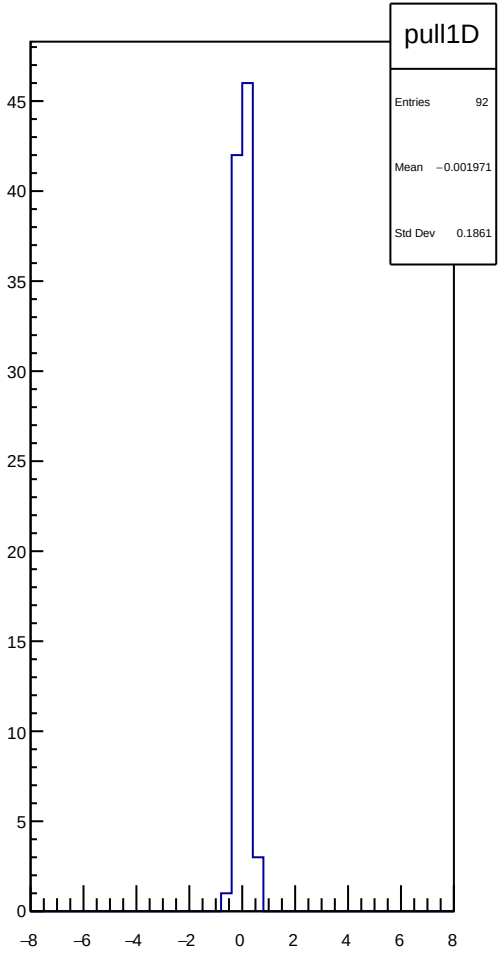

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.343 / 91
p0 −39.38 ± 2.986
pull
Entries 92
Mean −690.2
Std Dev 0
pull1D
Entries 92
Mean 0.002182
Std Dev 0.1208

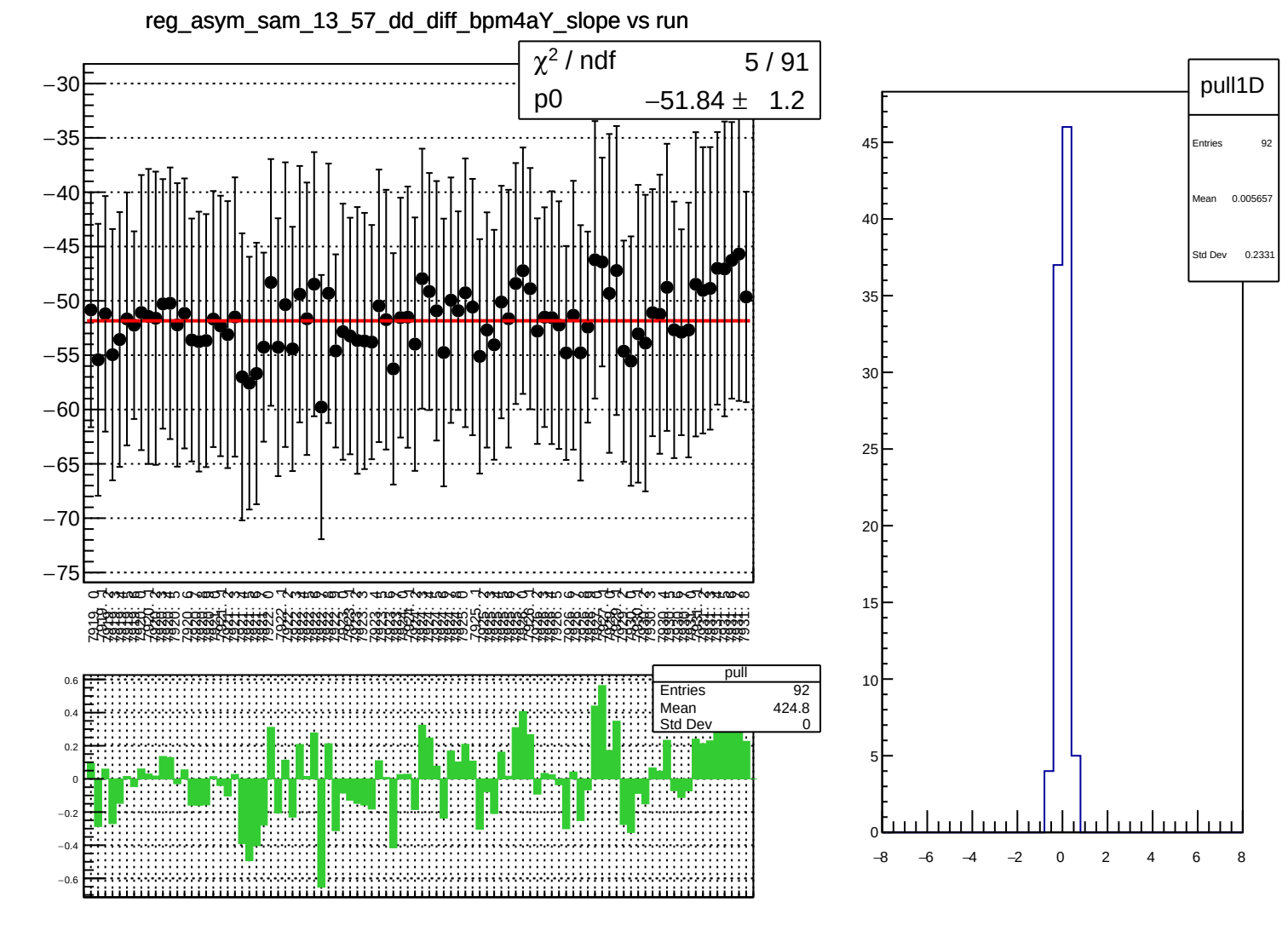

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.901 / 91
p0 33.33 ± 3.958
pull
Entries 92
Mean −264.2
Std Dev 0

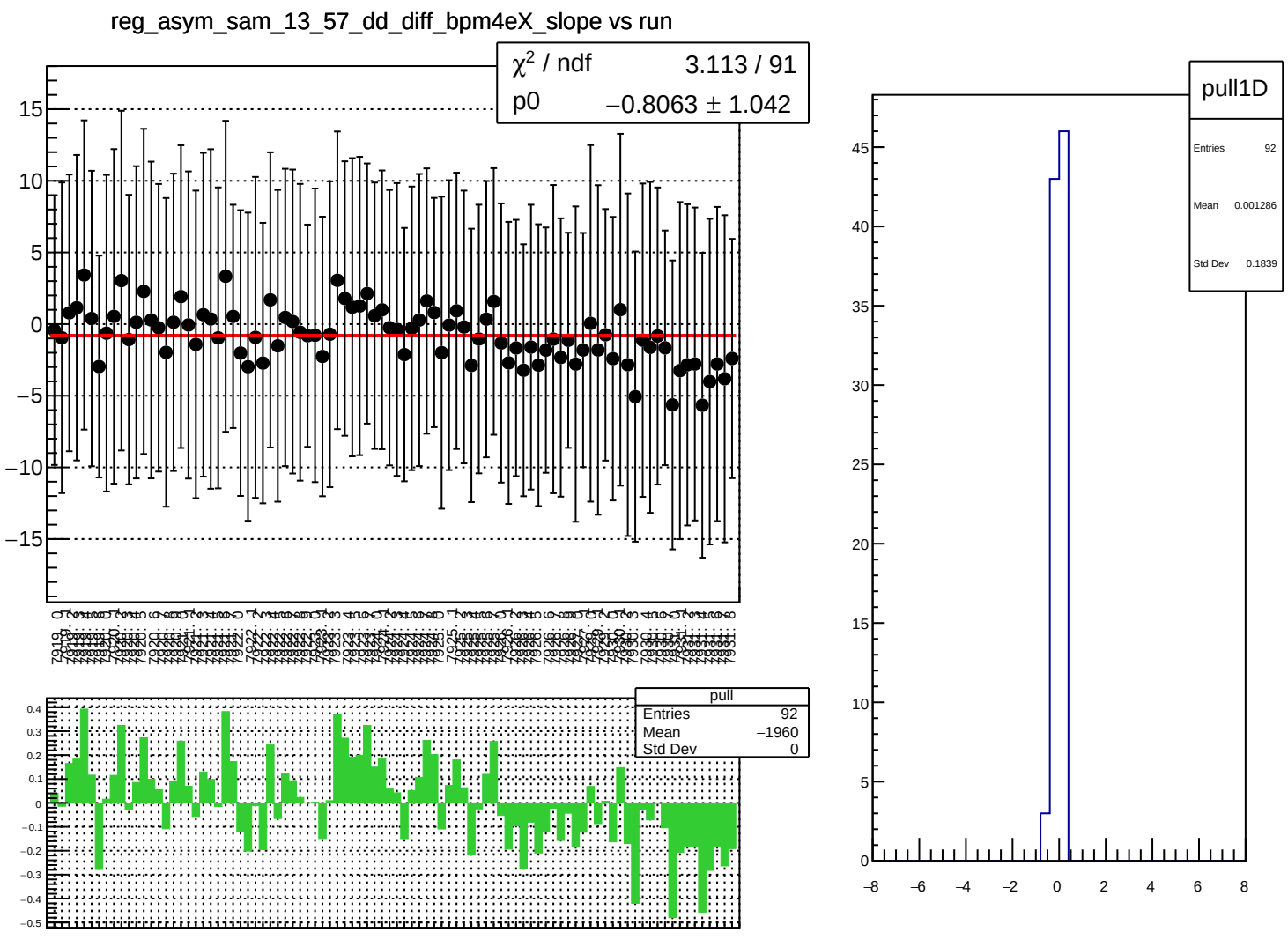

pull1D
Entries 92
Mean −0.002938
Std Dev 0.1437

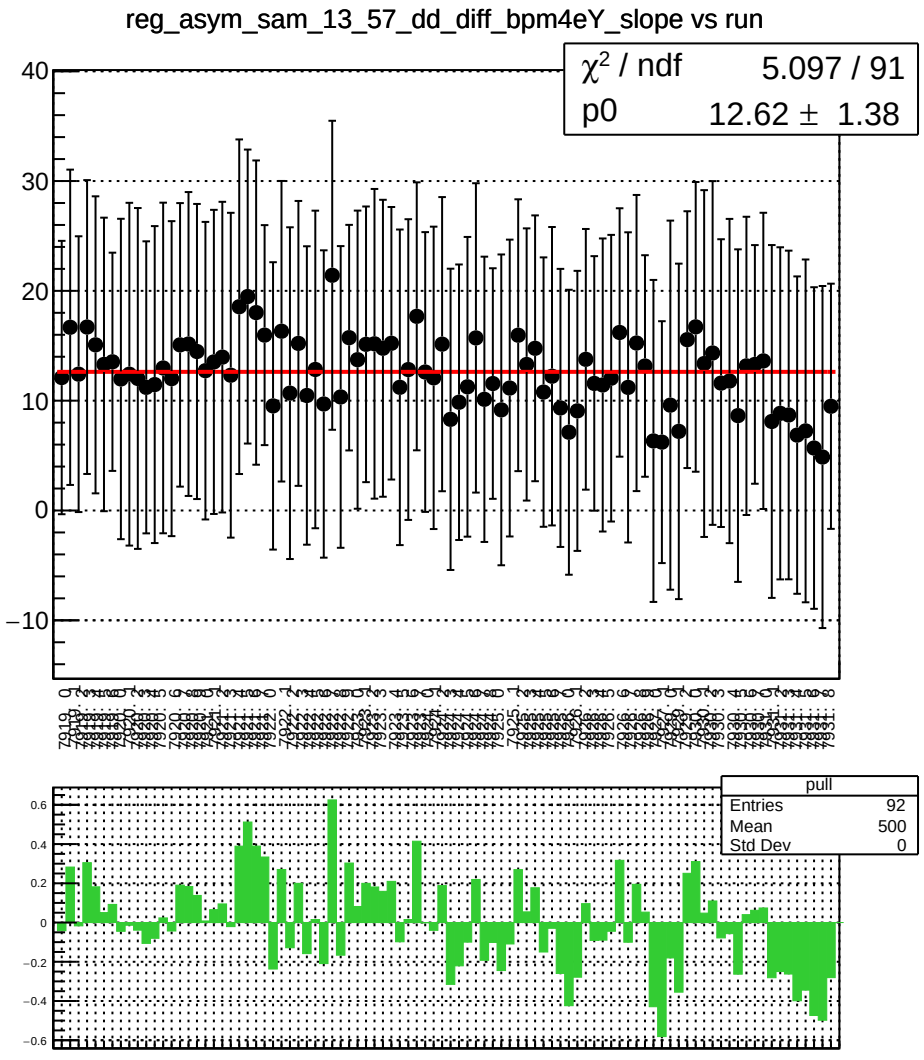

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 1.67 / 91
p0 −1.533 ± 0.1144
pull
Entries 92
Mean −920.7
Std Dev 0
pull1D
Entries 92
Mean −0.001363
Std Dev 0.1347

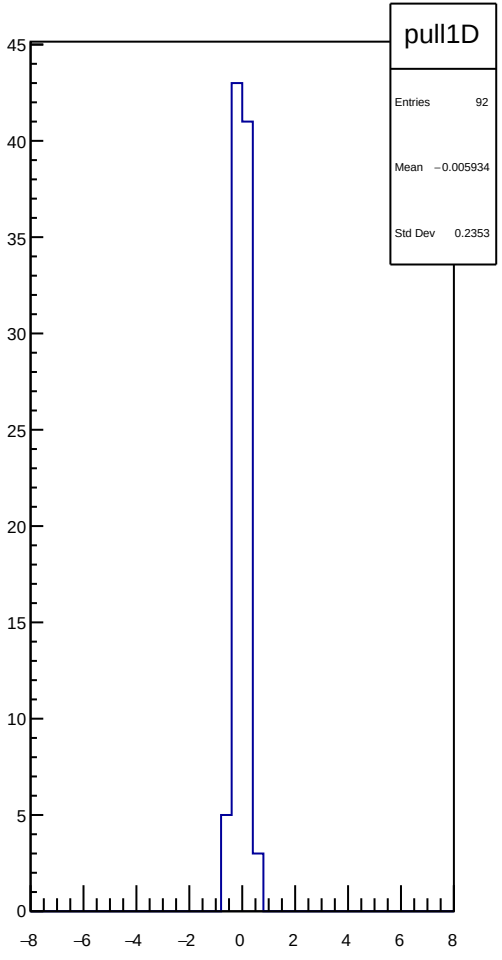

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 3.186 / 91
p0 −29.3 ± 1.165
pull
Entries 92
Mean −1203
Std Dev 0

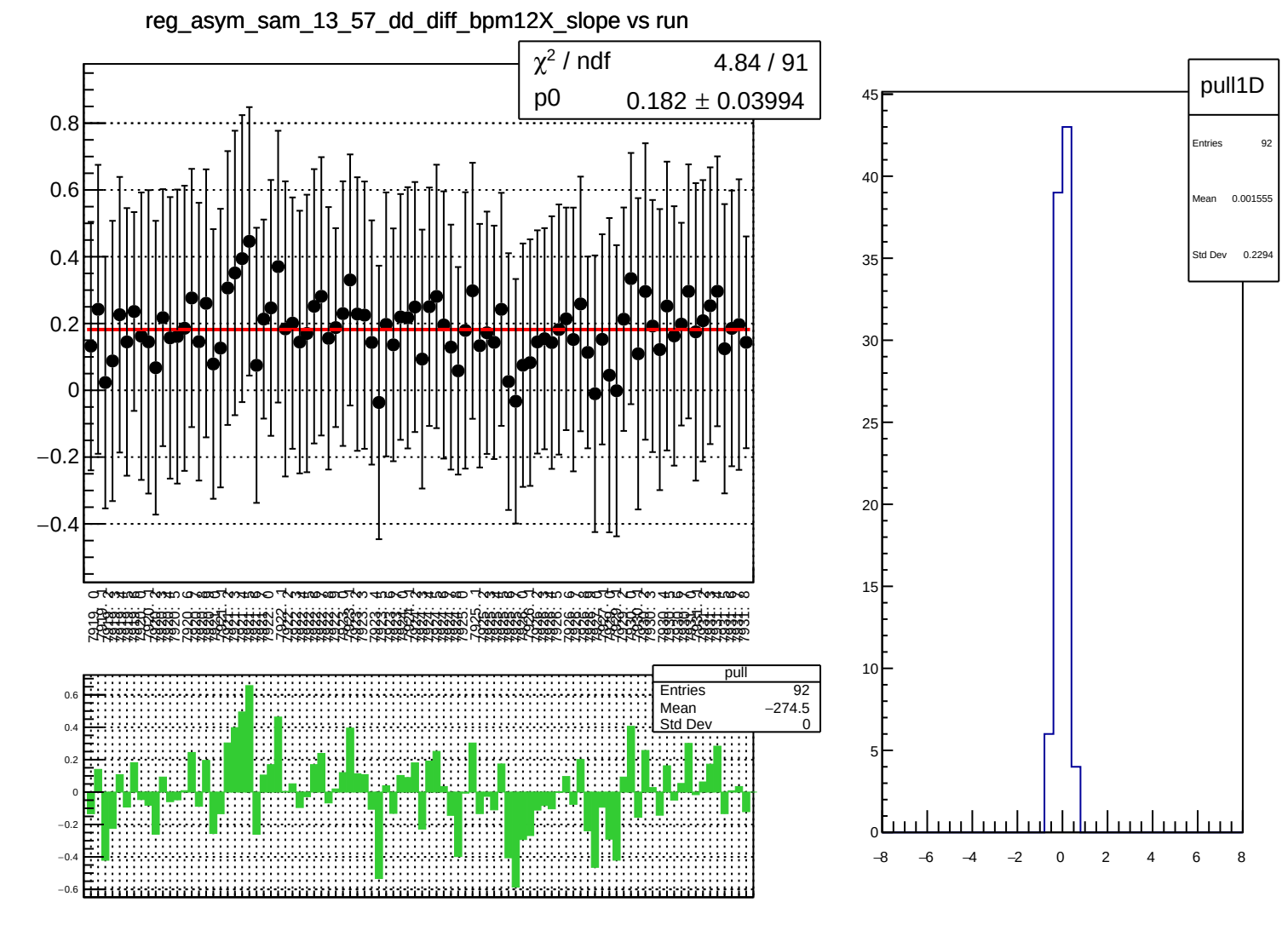

pull1D
Entries 92
Mean −0.001971
Std Dev 0.1861

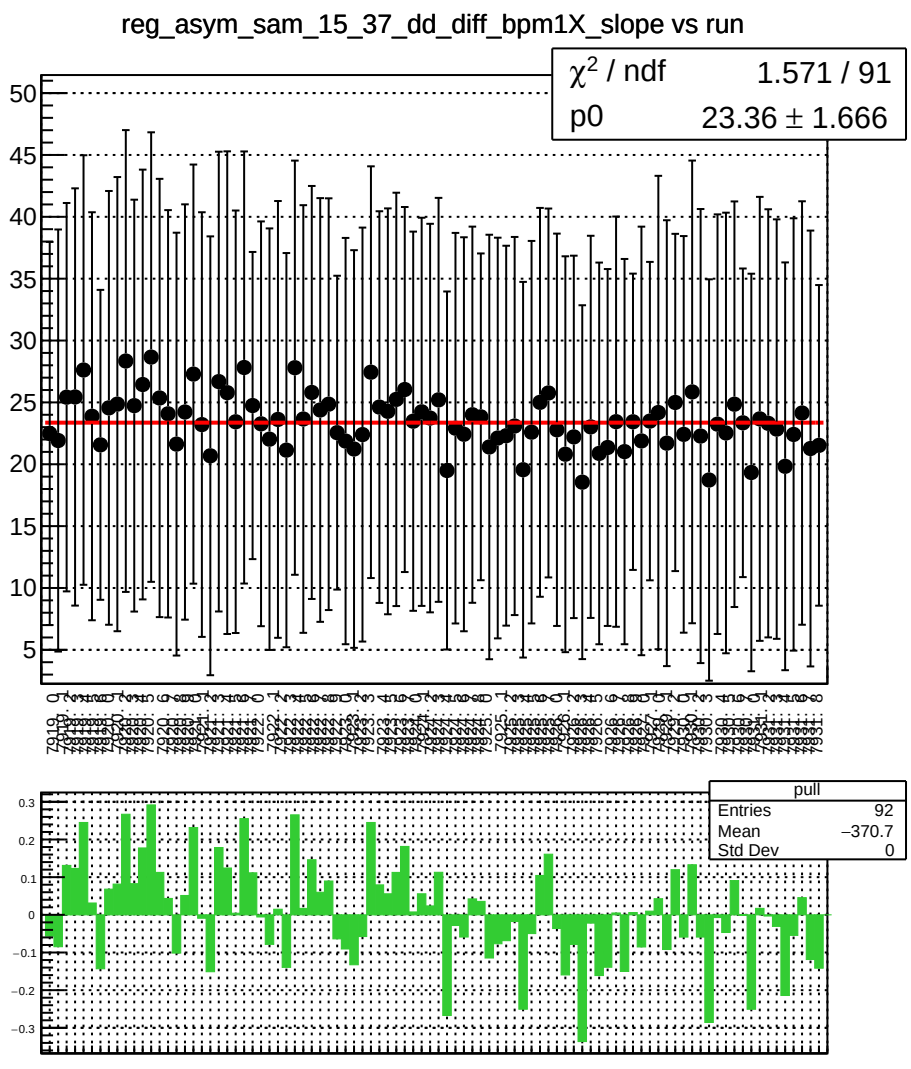

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 5 / 91
p0 −51.84 ± 1.2
pull
Entries 92
Mean 424.8
Std Dev 0
pull1D
Entries 92
Mean 0.005657
Std Dev 0.2331

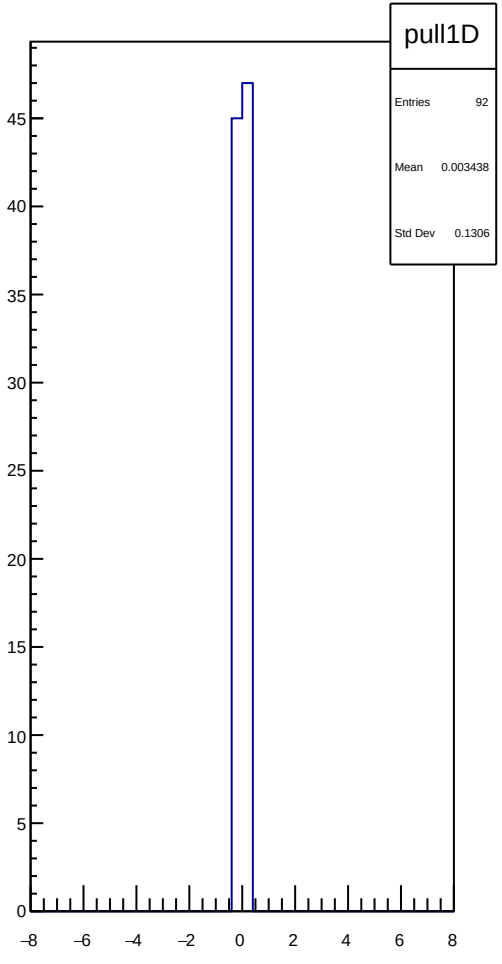

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.113 / 91
p0 −0.8063 ± 1.042
pull
Entries 92
Mean −1960
Std Dev 0
pull1D
Entries 92
Mean 0.001286
Std Dev 0.1839

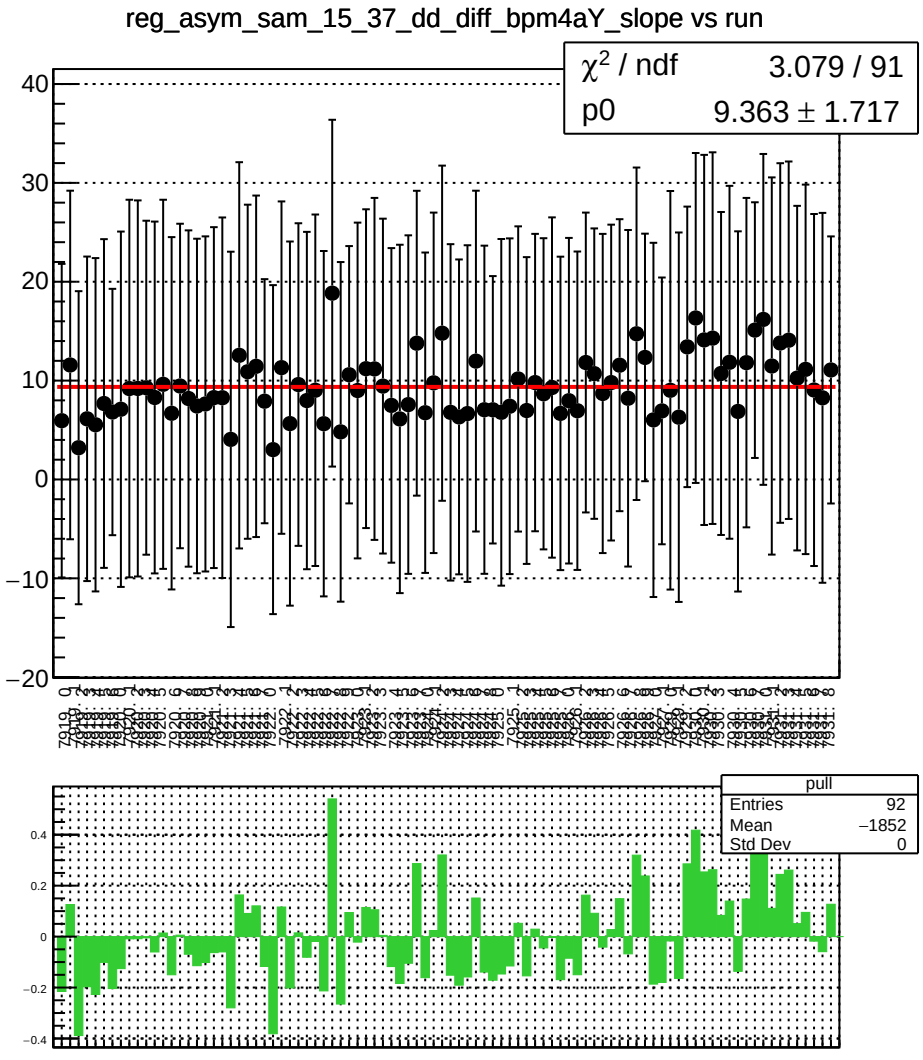

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.097 / 91
p0 12.62 ± 1.38
pull
Entries 92
Mean 500
Std Dev 0

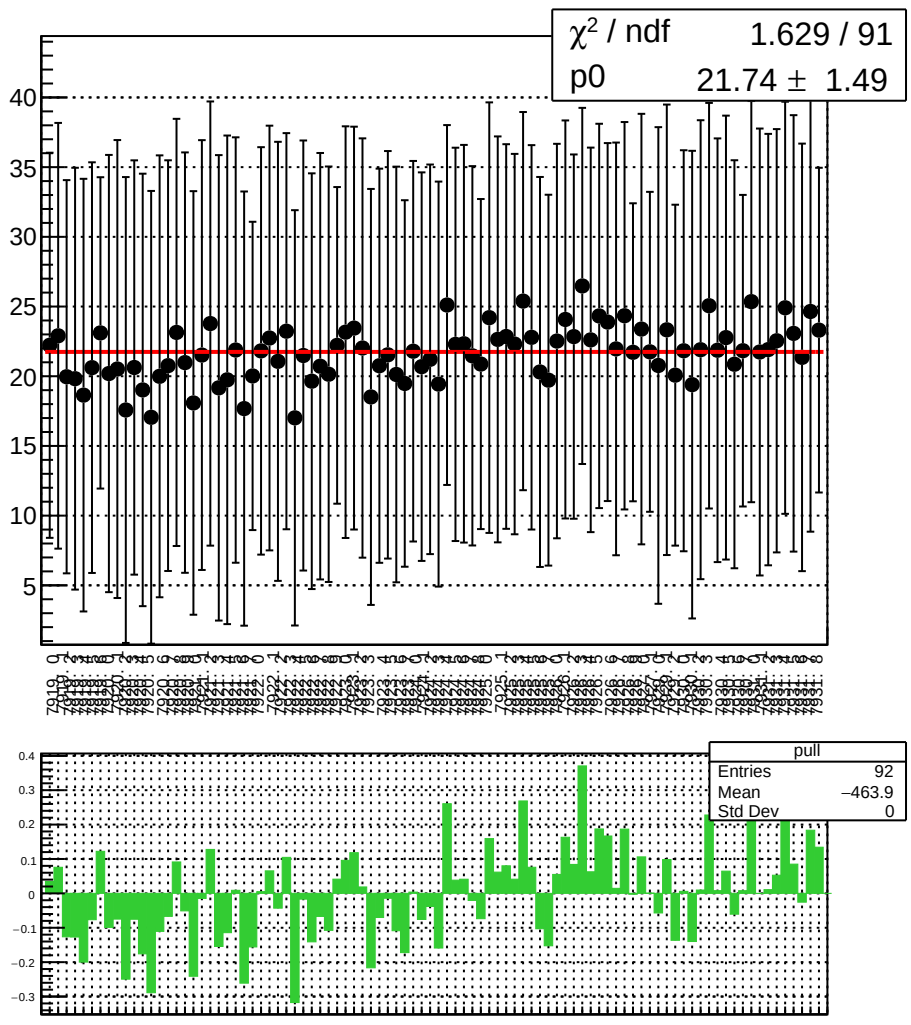

pull1D
Entries 92
Mean −0.005934
Std Dev 0.2353

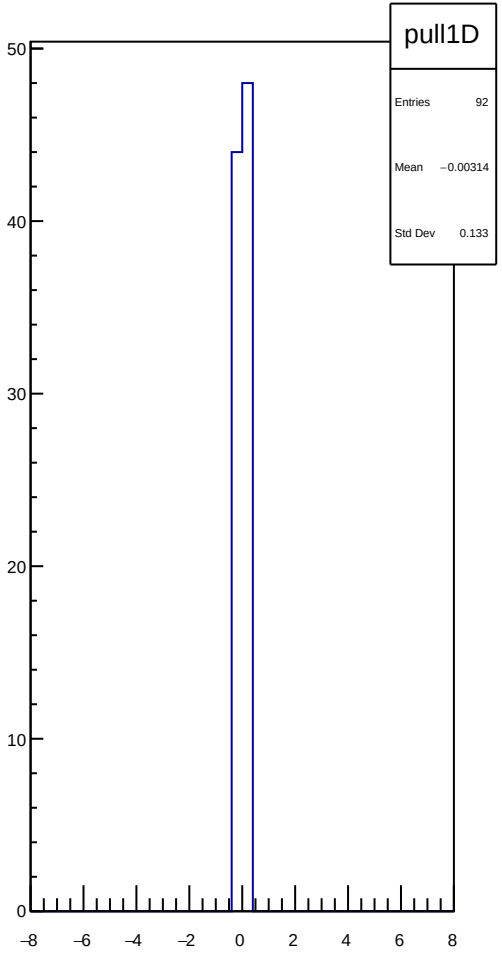

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 4.84 / 91
p0 0.182 ± 0.03994
pull
Entries 92
Mean −274.5
Std Dev 0
pull1D
Entries 92
Mean 0.001555
Std Dev 0.2294

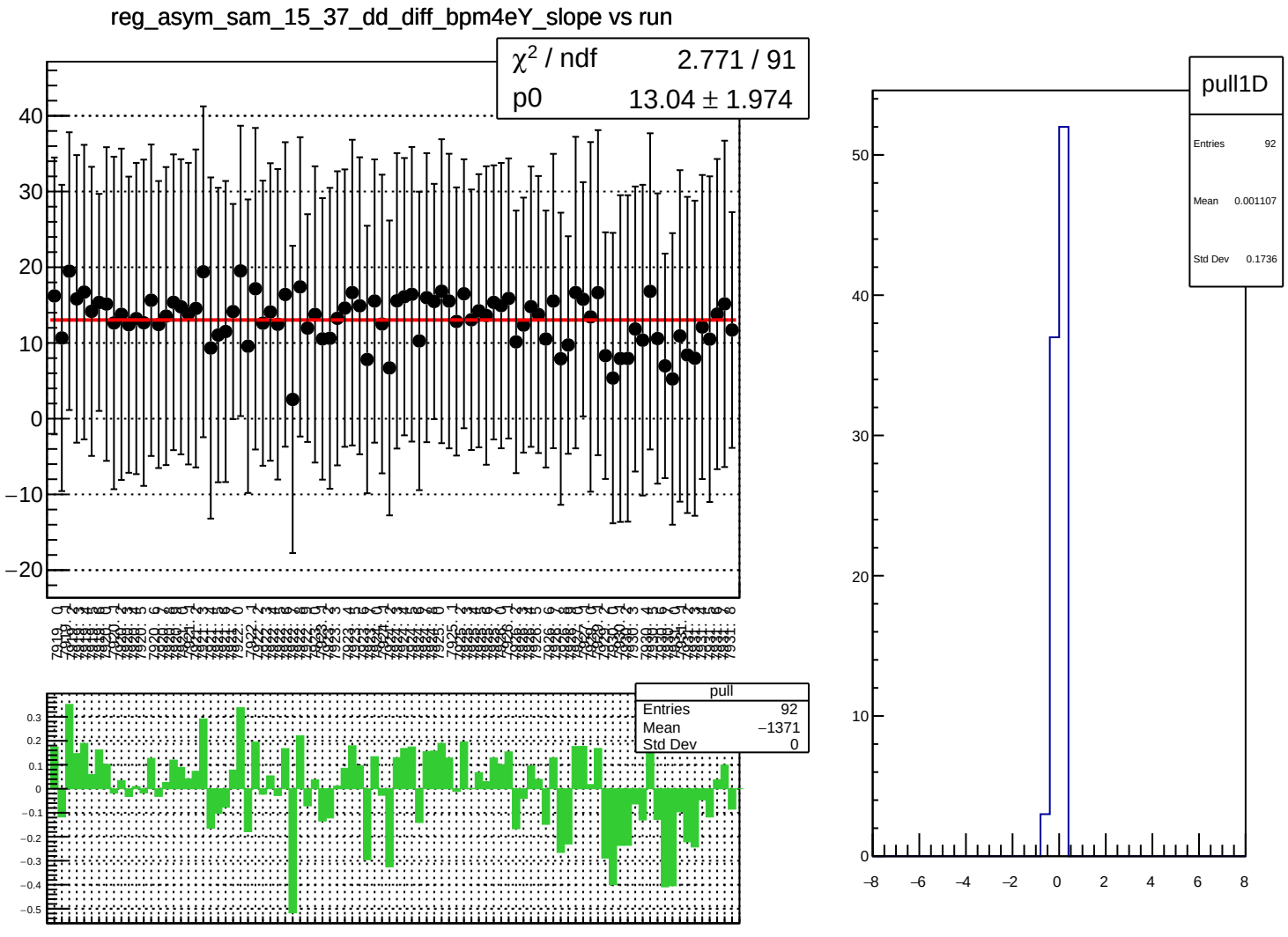

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 1.571 / 91
p0 23.36 ± 1.666
pull
Entries 92
Mean −370.7
Std Dev 0

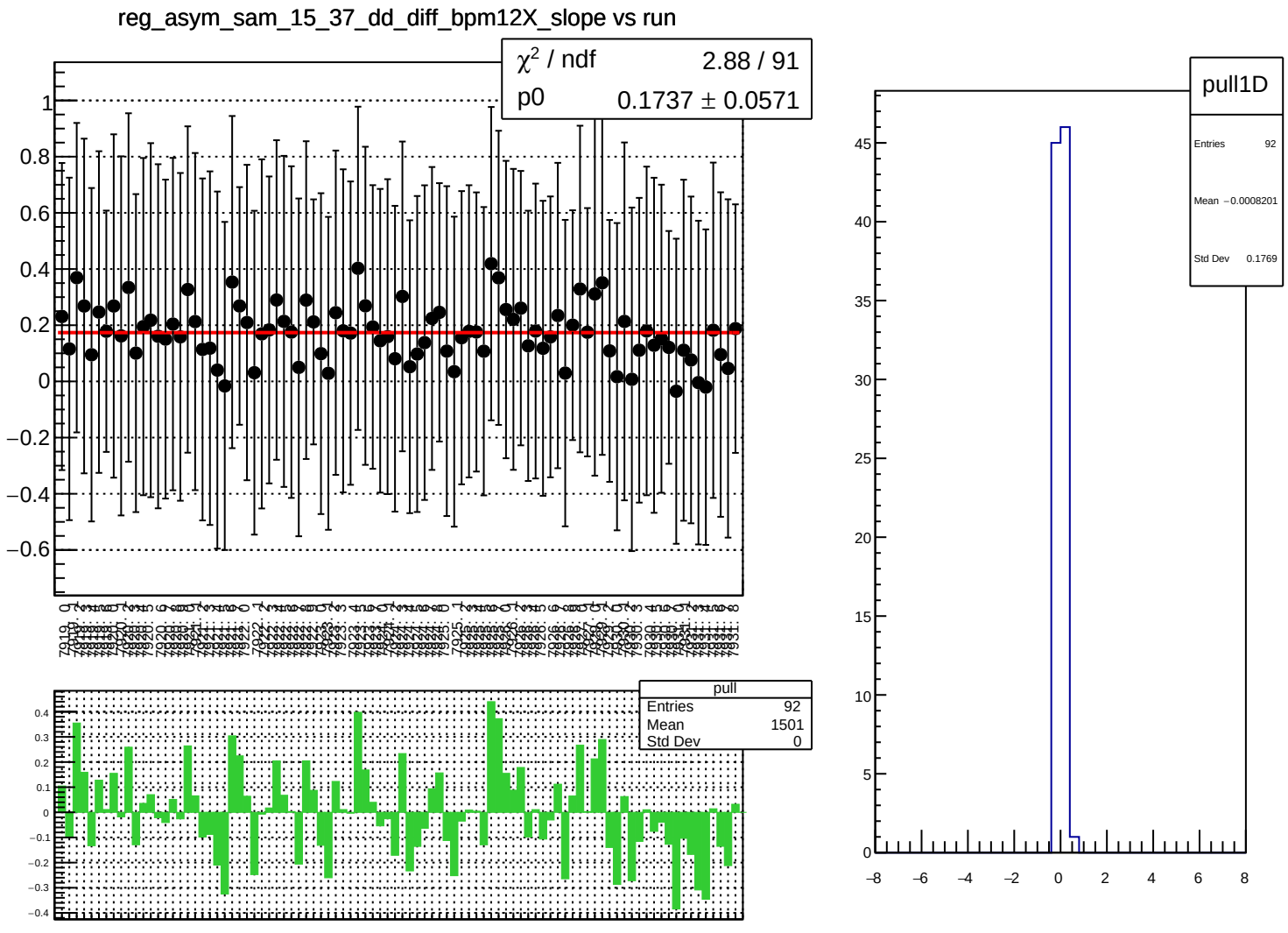

pull1D
Entries 92
Mean 0.003438
Std Dev 0.1306

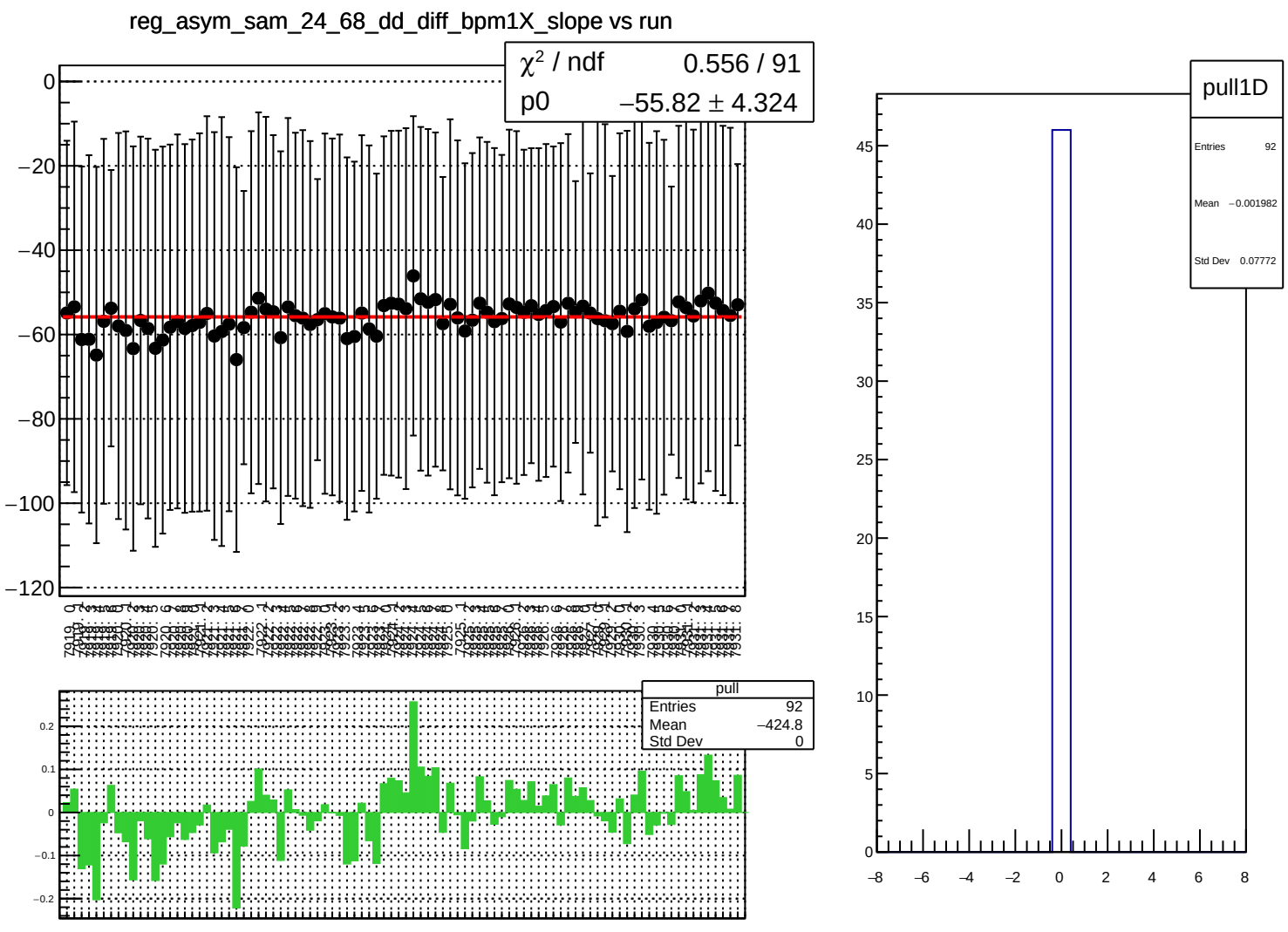

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.079 / 91
p0 9.363 ± 1.717
pull
Entries 92
Mean −1852
Std Dev 0
pull1D
Entries 92
Mean −0.001067
Std Dev 0.1829

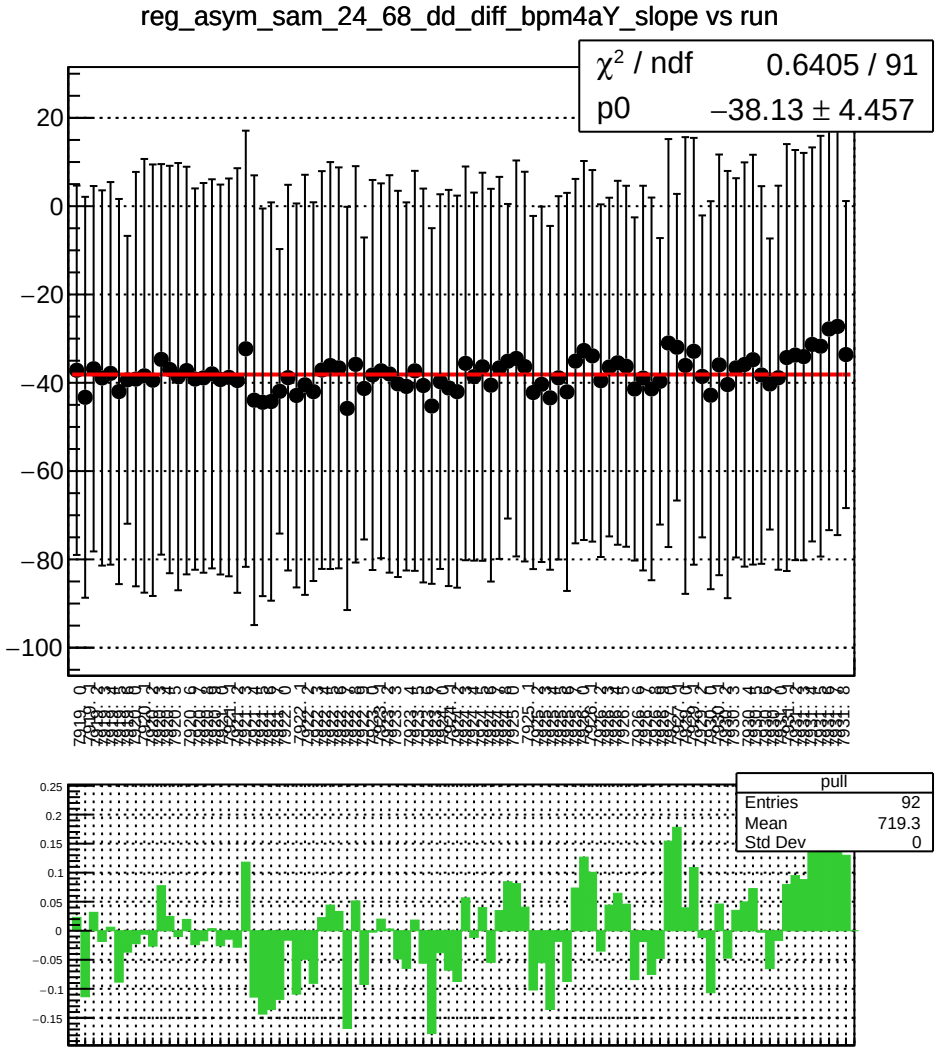

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.629 / 91
p0 21.74 ± 1.49
pull
Entries 92
Mean −463.9
Std Dev 0

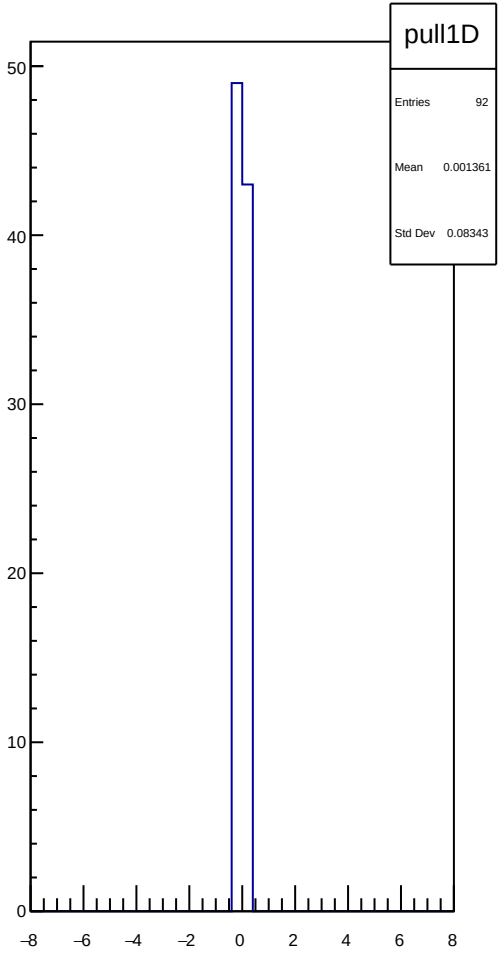

pull1D
Entries 92
Mean −0.00314
Std Dev 0.133

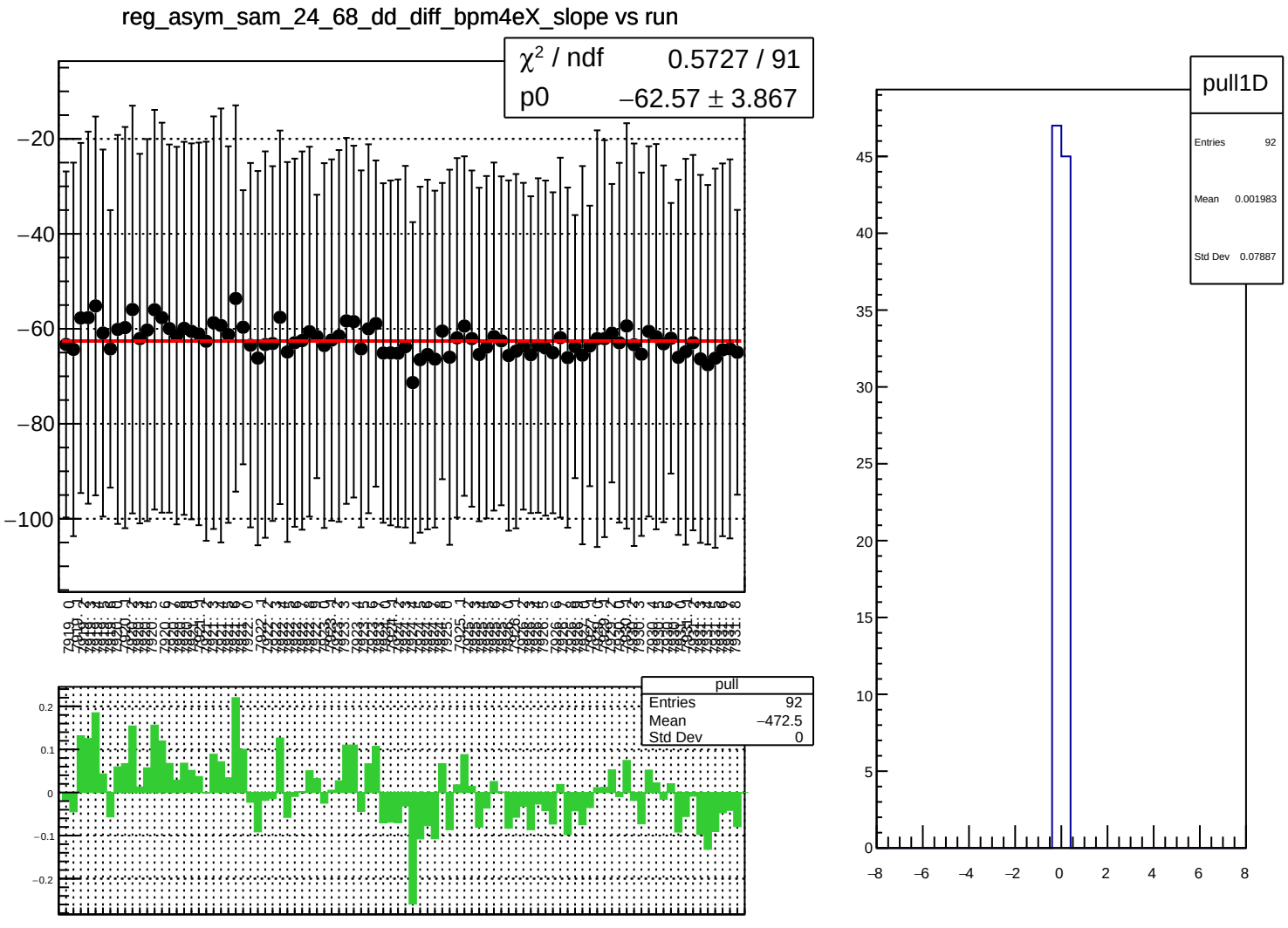

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.771 / 91
p0 13.04 ± 1.974
pull
Entries 92
Mean −1371
Std Dev 0
pull1D
Entries 92
Mean 0.001107
Std Dev 0.1736

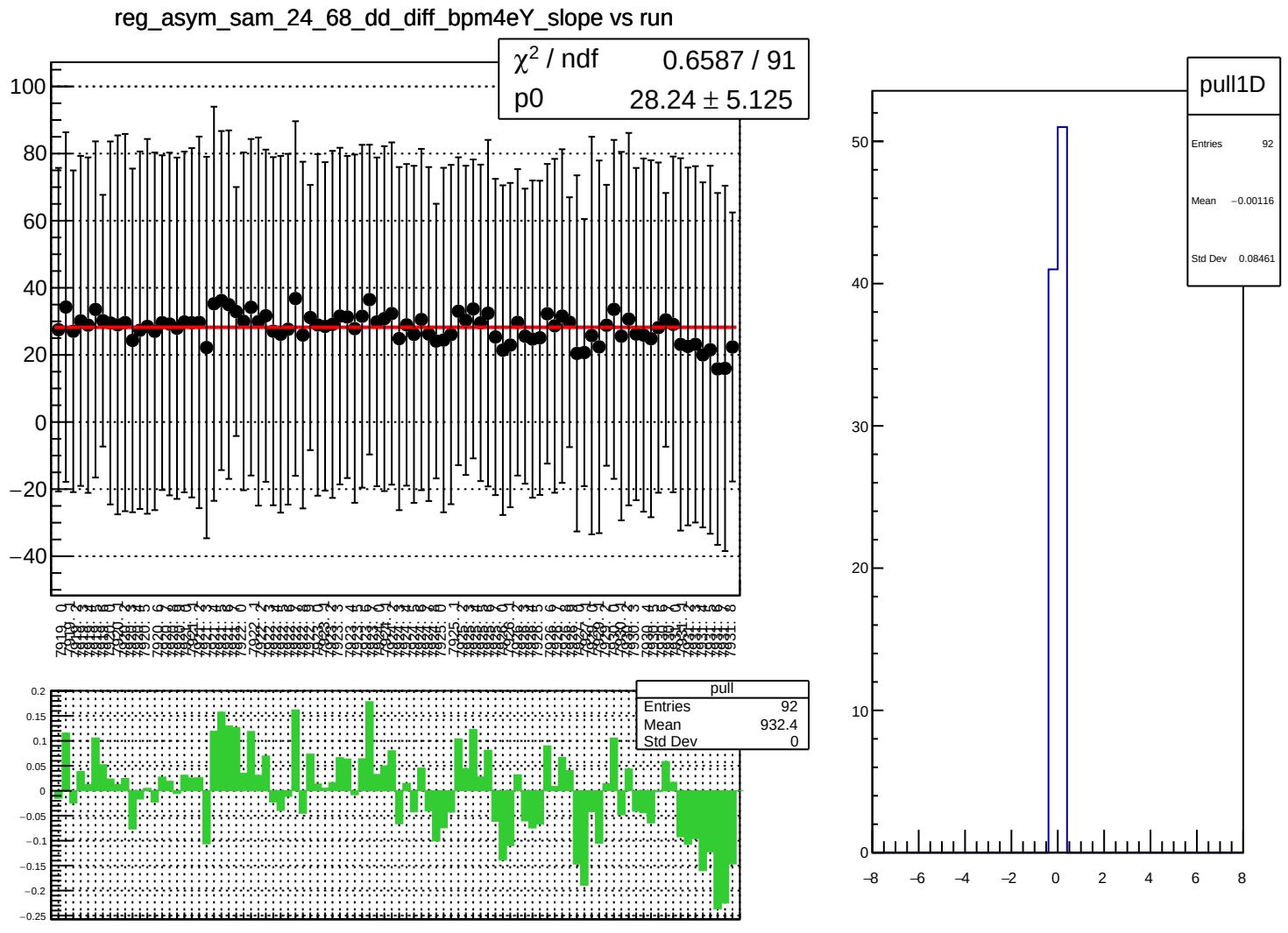

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 2.88 / 91
p0 0.1737 ± 0.0571
pull
Entries 92
Mean 1501
Std Dev 0
pull1D
Entries 92
Mean −0.0008201
Std Dev 0.1769

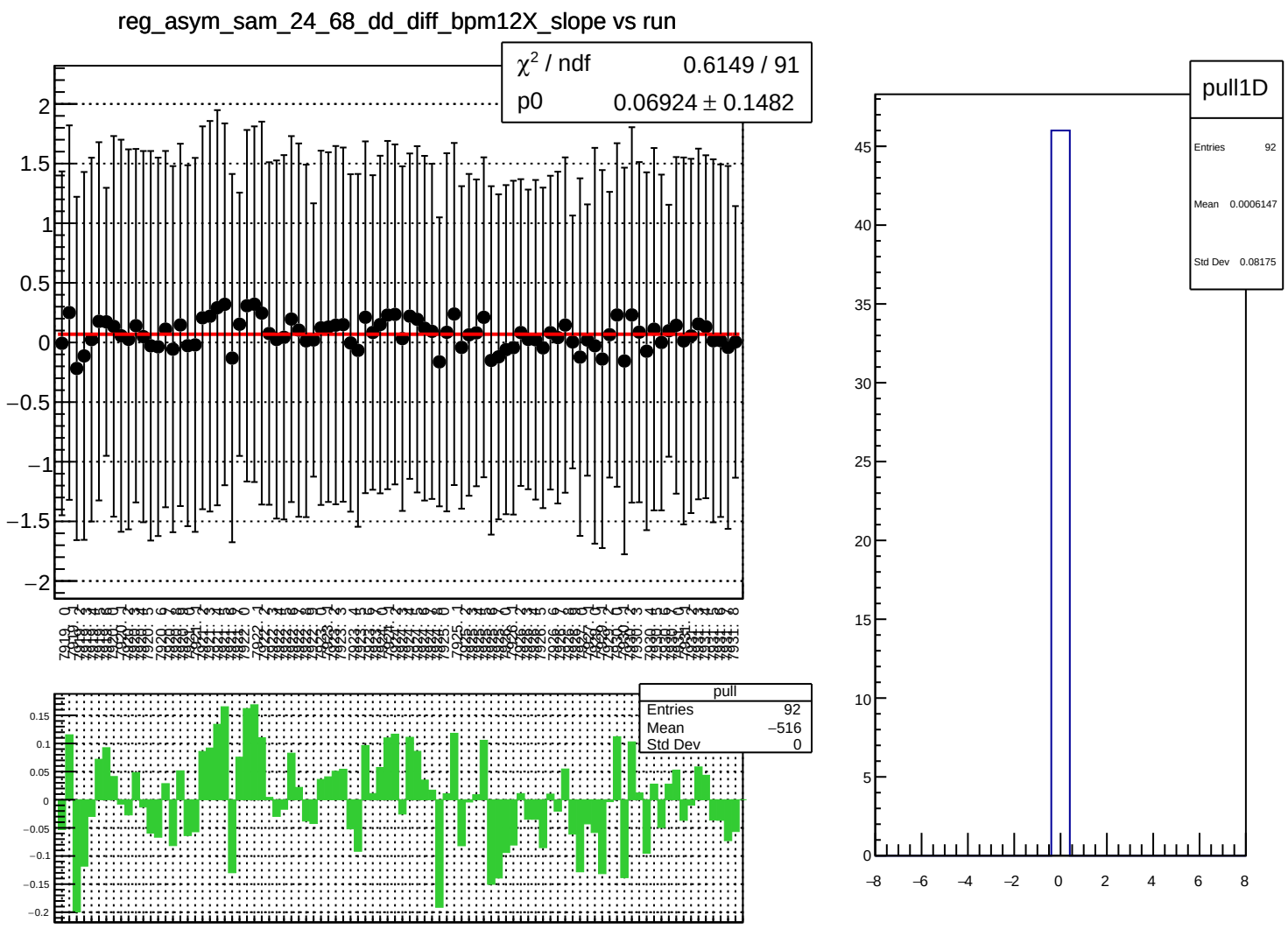

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 0.556 / 91
p0 −55.82 ± 4.324
pull
Entries 92
Mean −424.8
Std Dev 0
pull1D
Entries 92
Mean −0.001982
Std Dev 0.07772

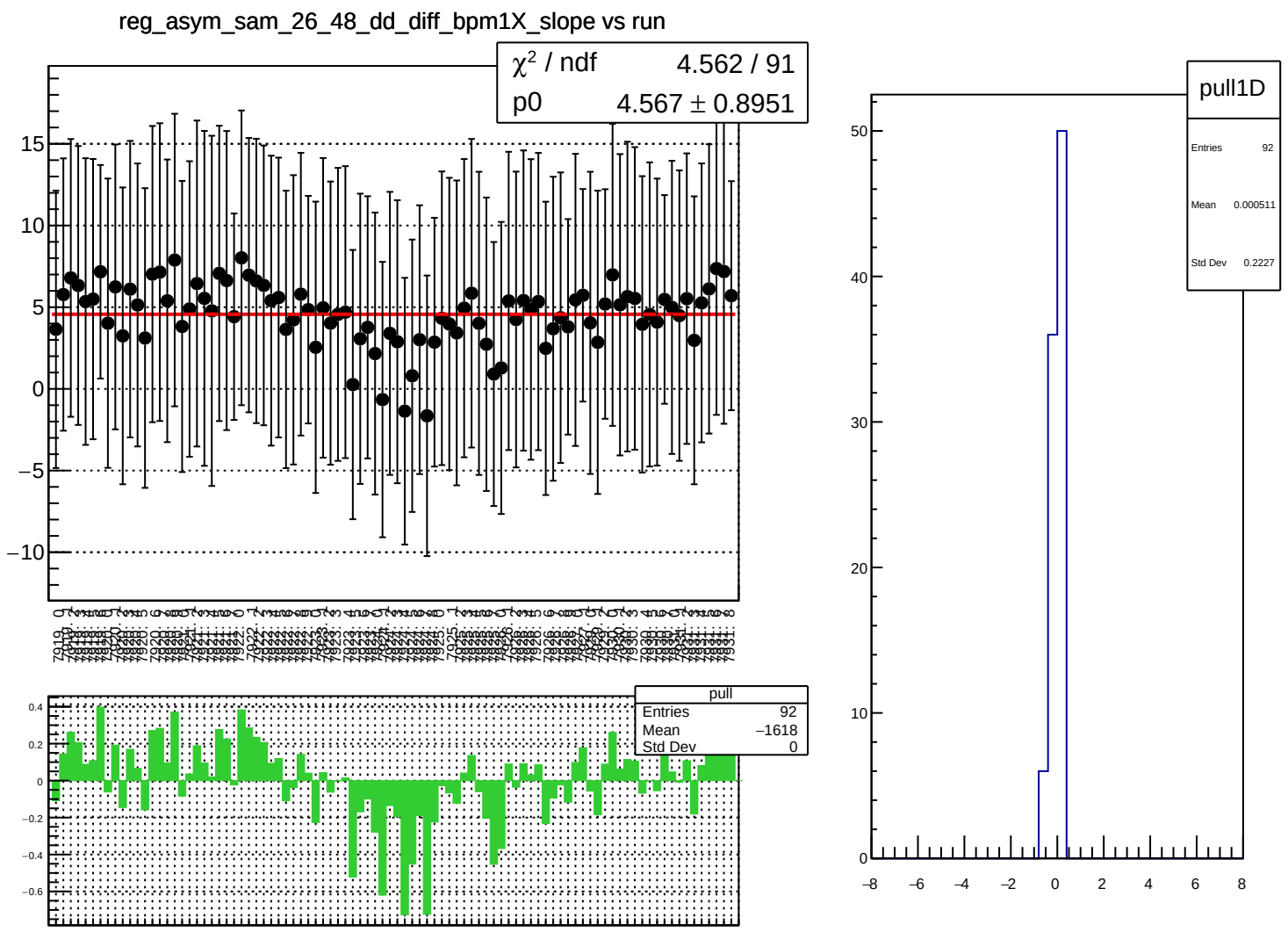

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.6405 / 91
p0 −38.13 ± 4.457
pull
Entries 92
Mean 719.3
Std Dev 0

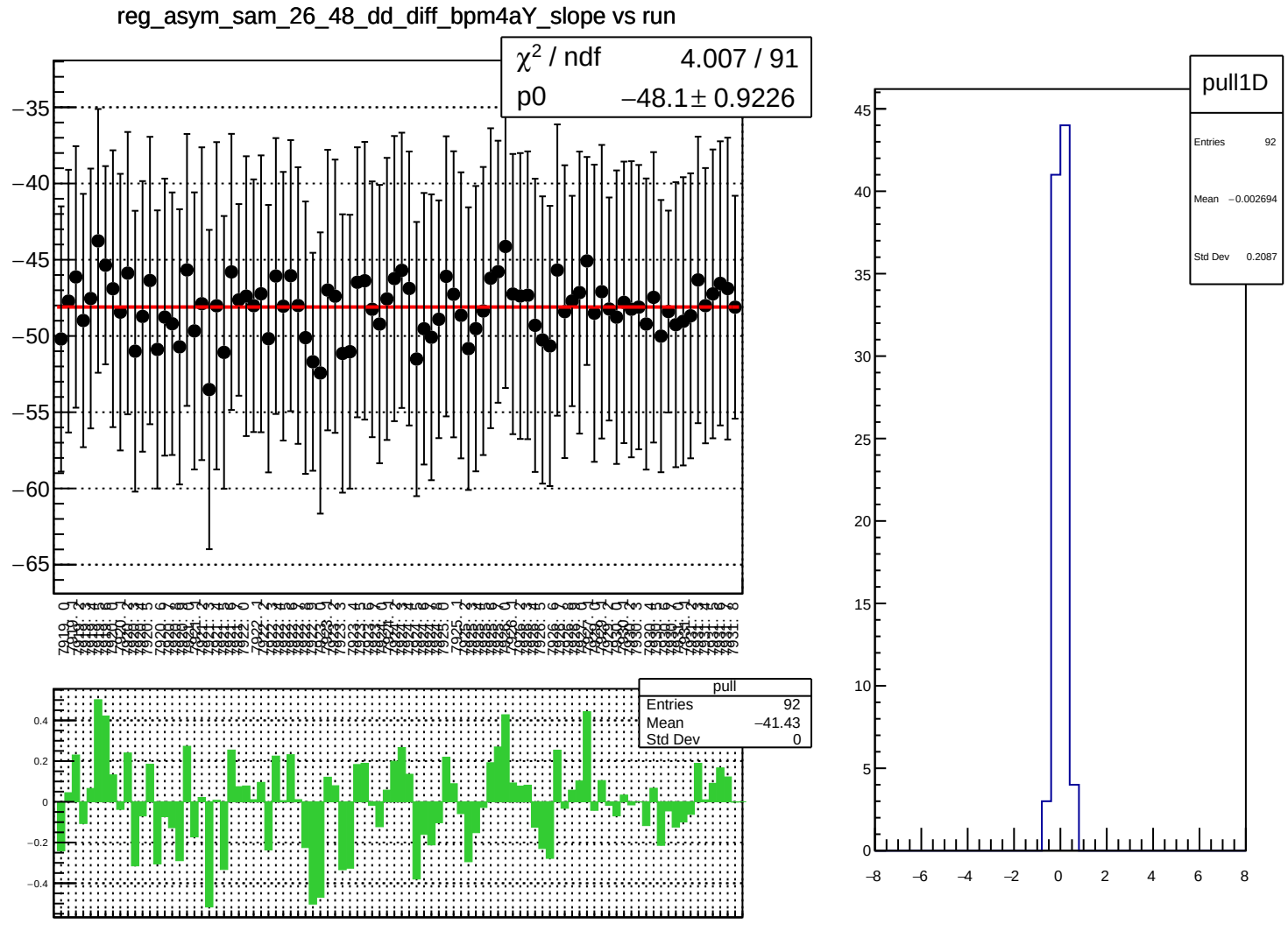

pull1D
Entries 92
Mean 0.001361
Std Dev 0.08343

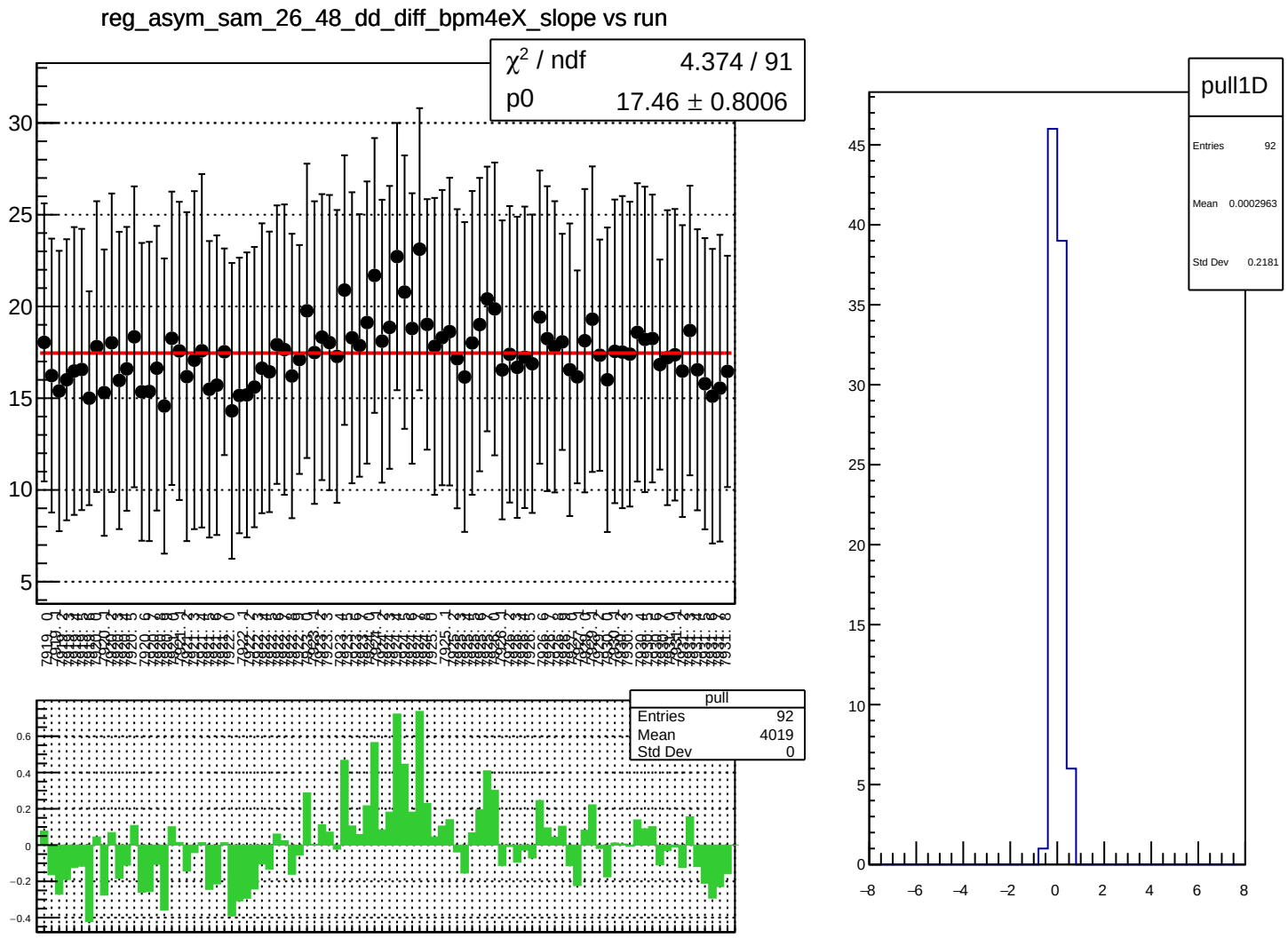

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.5727 / 91
p0 −62.57 ± 3.867
−20
−40
−60
−80
−100
pull
Entries 92
Mean −472.5
Std Dev 0
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 92
Mean 0.001983
Std Dev 0.07887
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

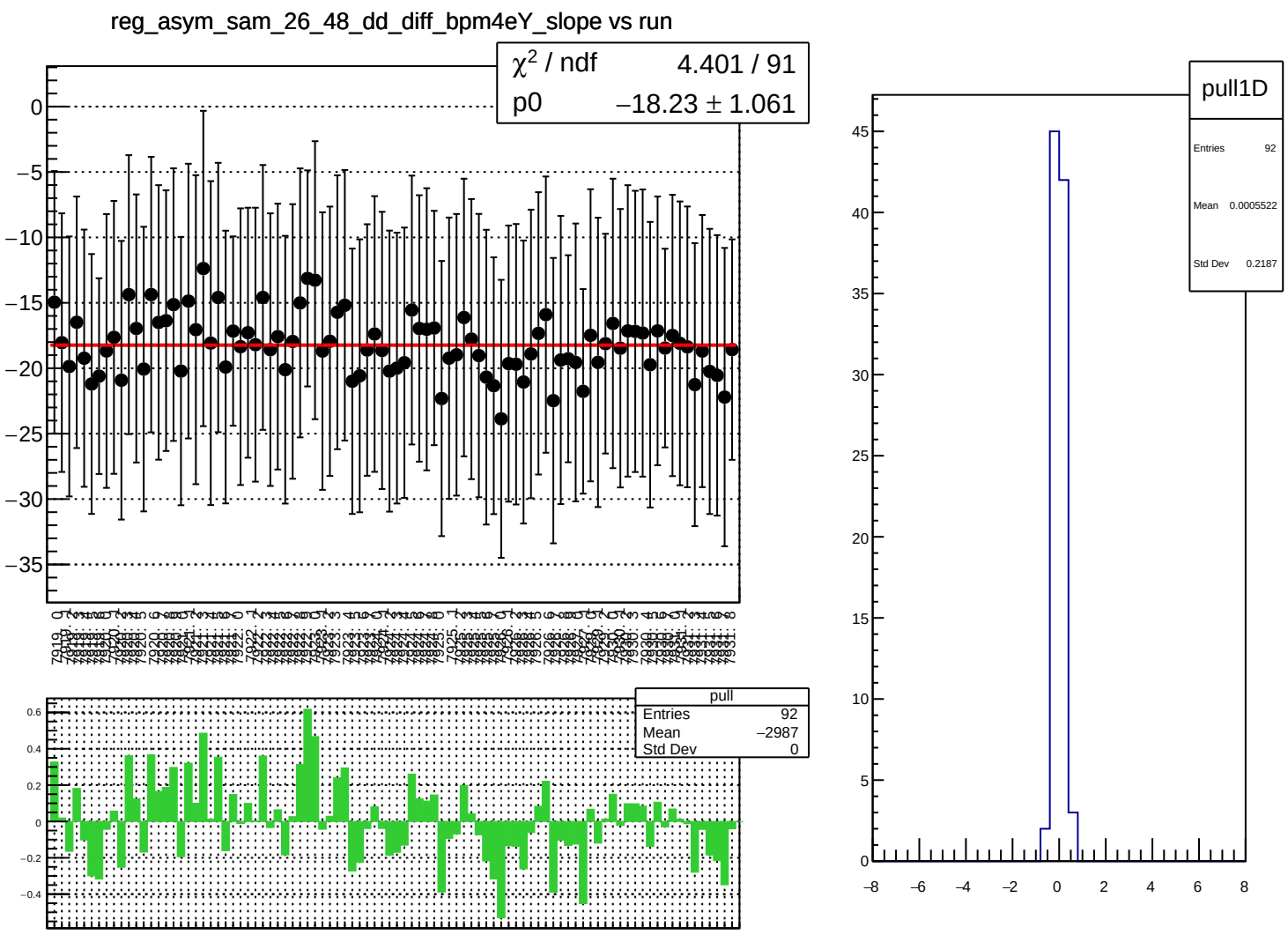

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.6587 / 91
p0 28.24 ± 5.125
pull
Entries 92
Mean 932.4
Std Dev 0
pull1D
Entries 92
Mean −0.00116
Std Dev 0.08461

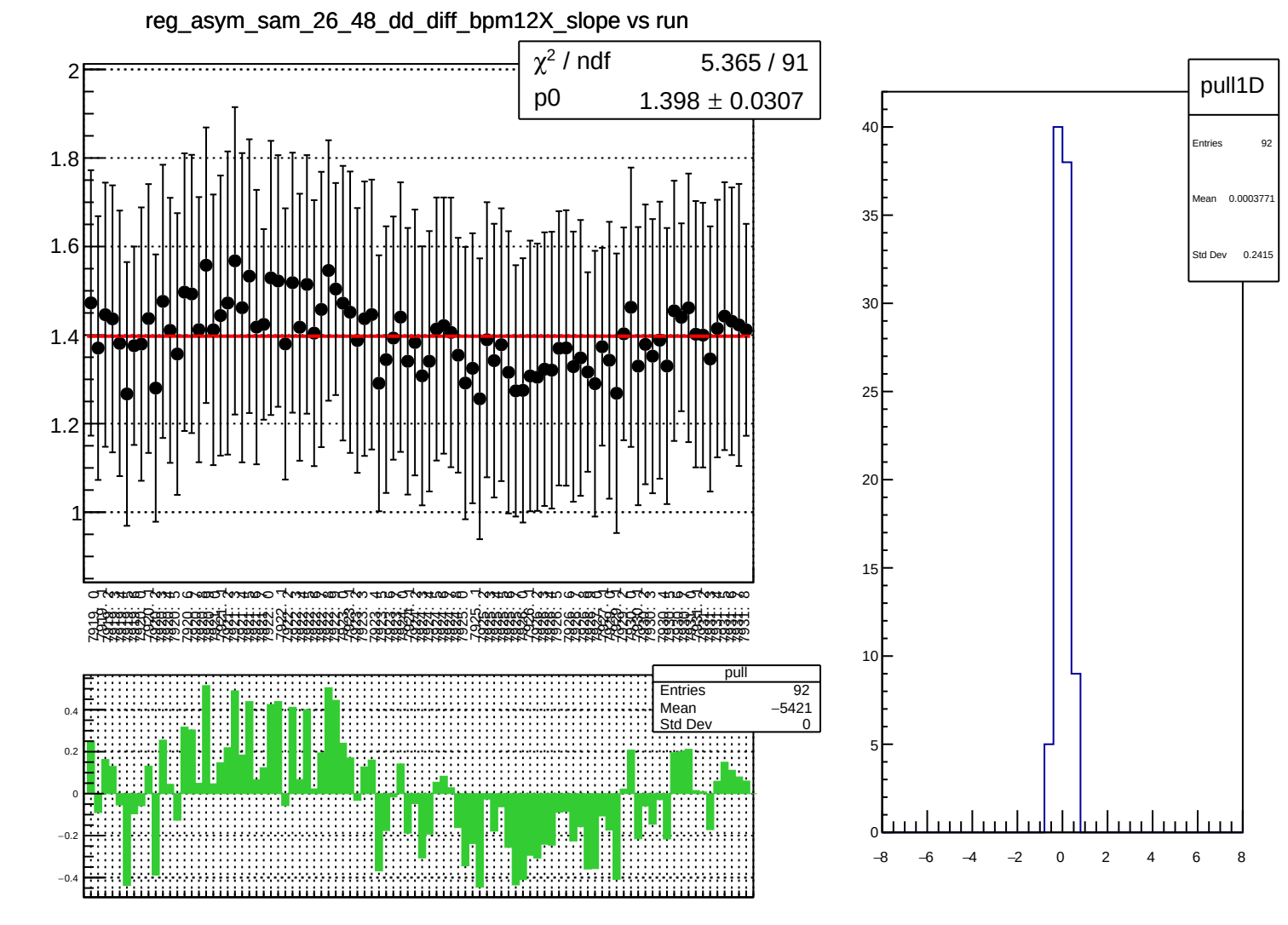

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 0.6149 / 91
p0 0.06924 ± 0.1482
pull
Entries 92
Mean −516
Std Dev 0
pull1D
Entries 92
Mean 0.0006147
Std Dev 0.08175

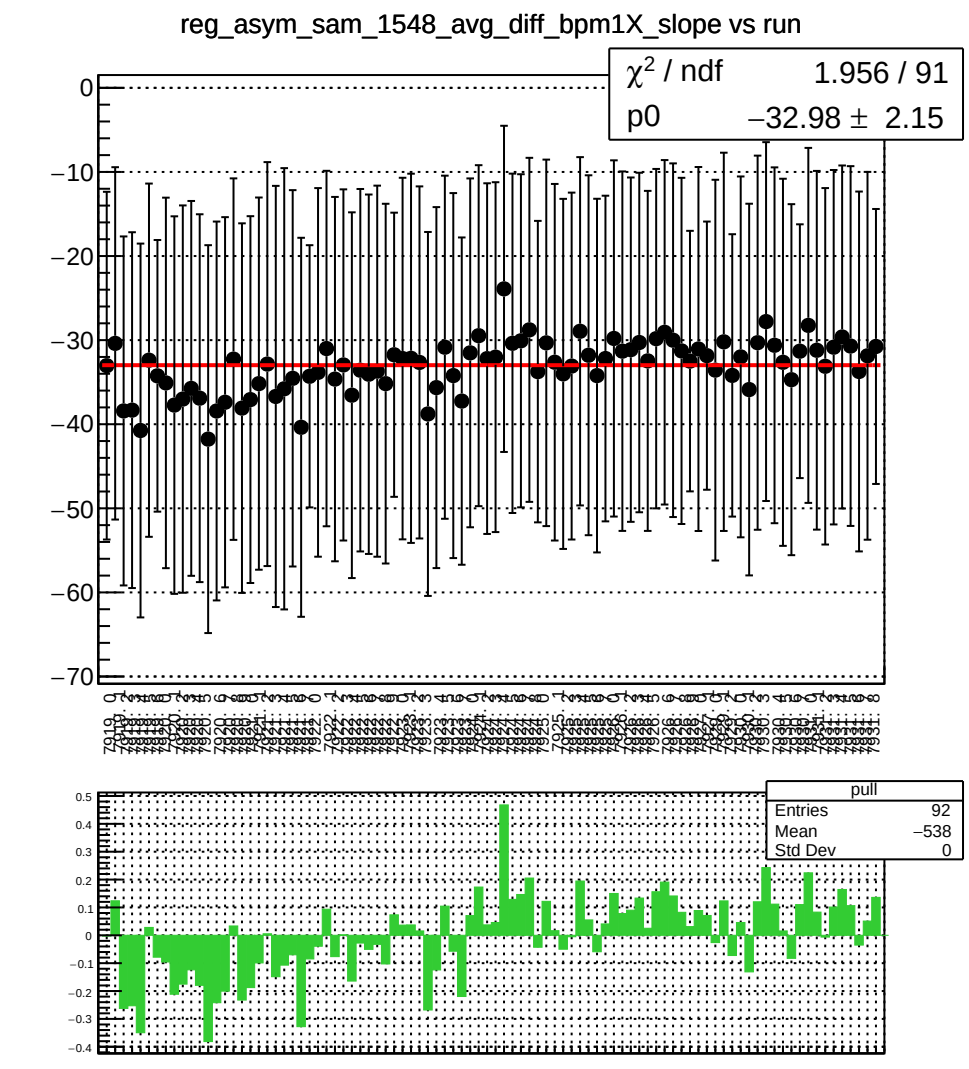

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 4.562 / 91
p0 4.567 ± 0.8951
pull
Entries 92
Mean −1618
Std Dev 0
pull1D
Entries 92
Mean 0.000511
Std Dev 0.2227

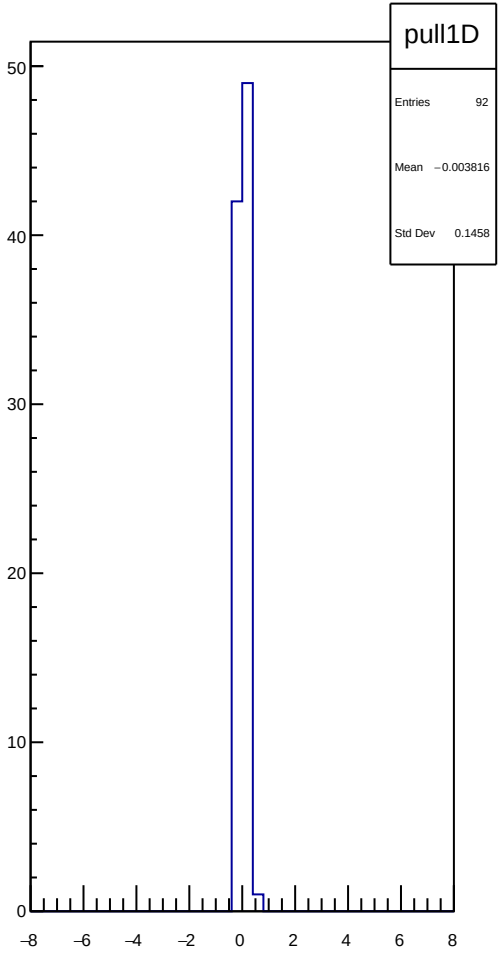

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.007 / 91
p0 −48.1 ± 0.9226
pull
Entries 92
Mean −41.43
Std Dev 0
pull1D
Entries 92
Mean −0.002694
Std Dev 0.2087

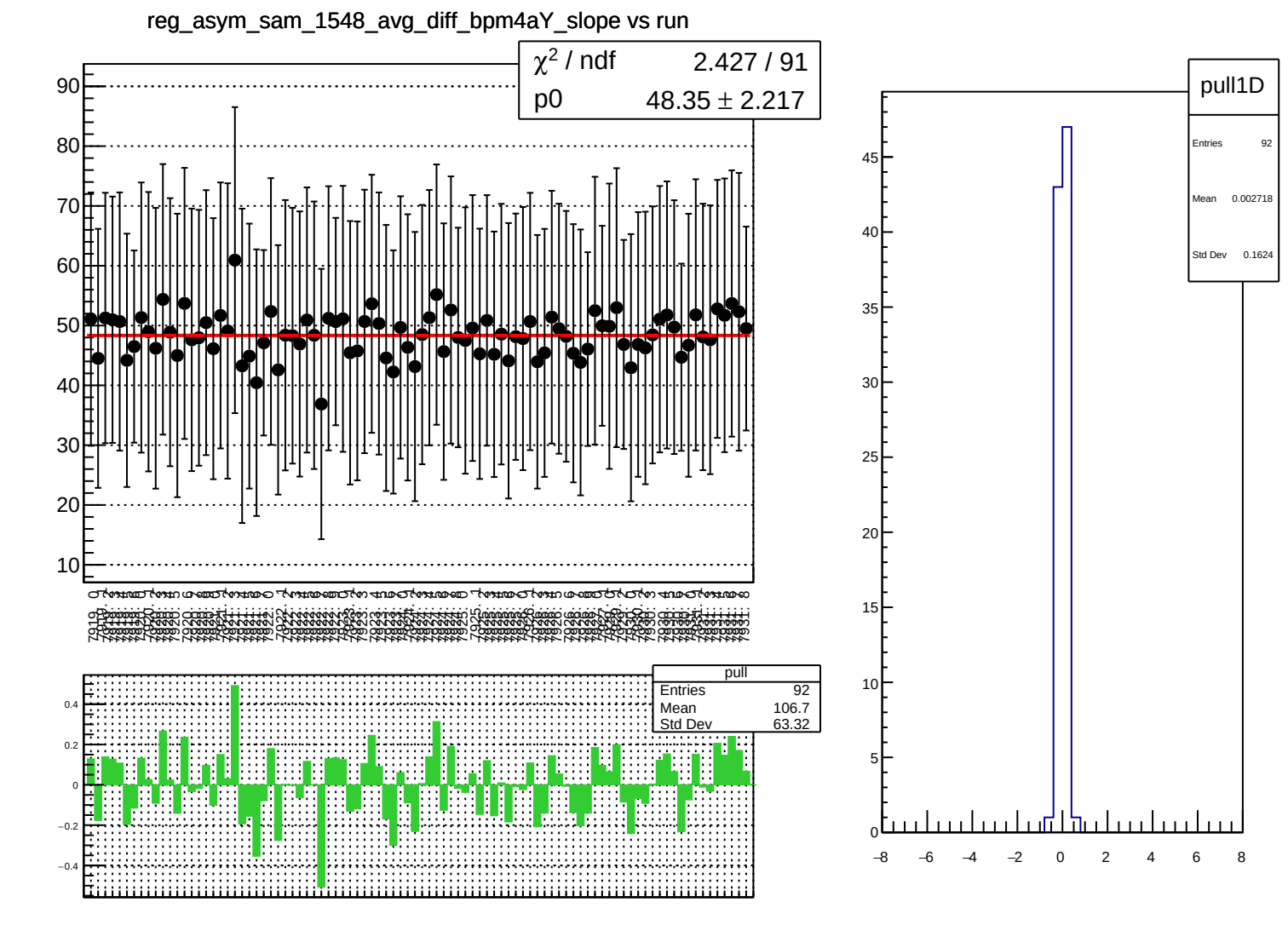

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.374 / 91
p0 17.46 ± 0.8006
pull
Entries 92
Mean 4019
Std Dev 0
pull1D
Entries 92
Mean 0.0002963
Std Dev 0.2181

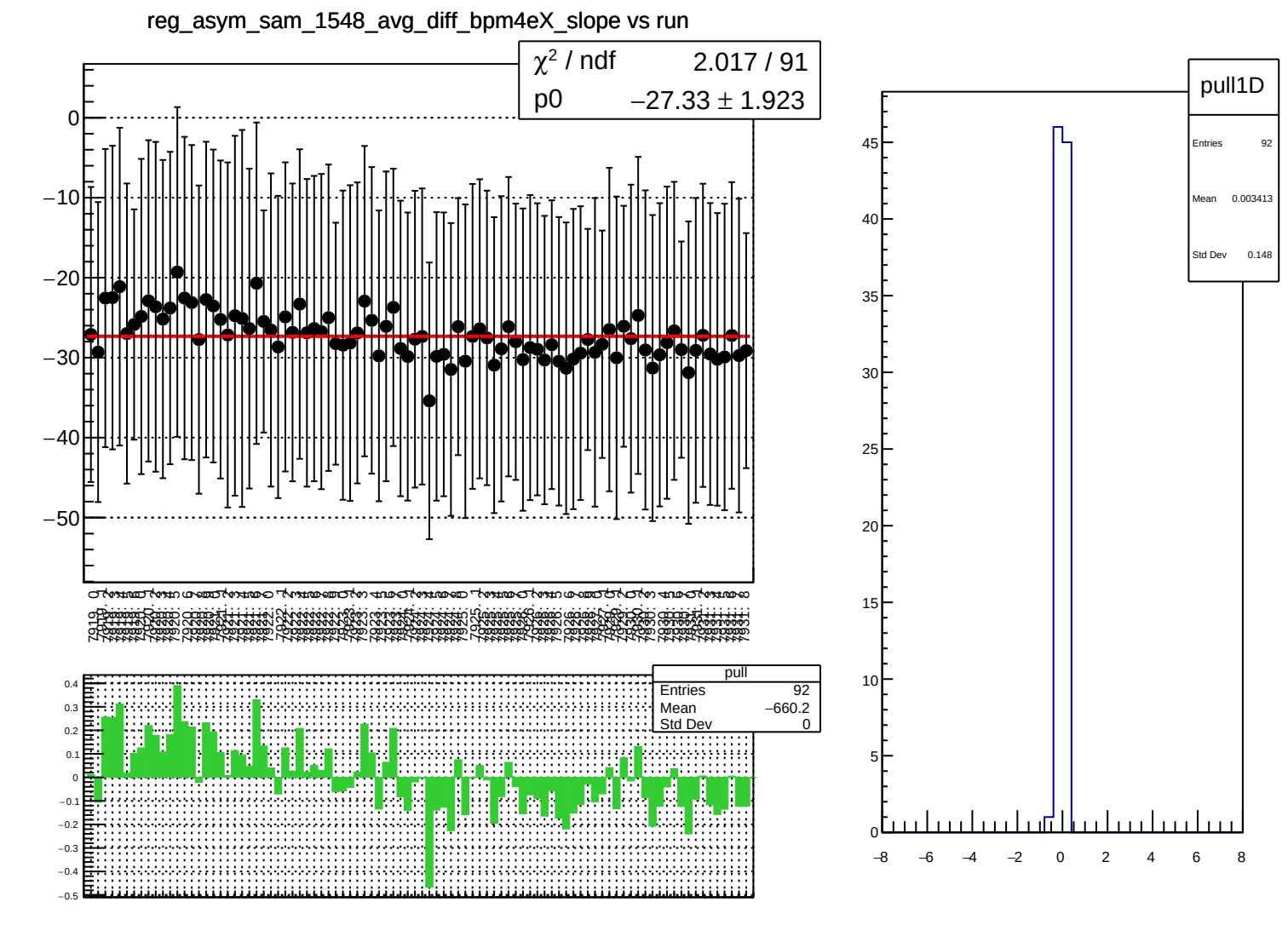

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.401 / 91
p0 −18.23 ± 1.061
pull
Entries 92
Mean −2987
Std Dev 0
pull1D
Entries 92
Mean 0.0005522
Std Dev 0.2187

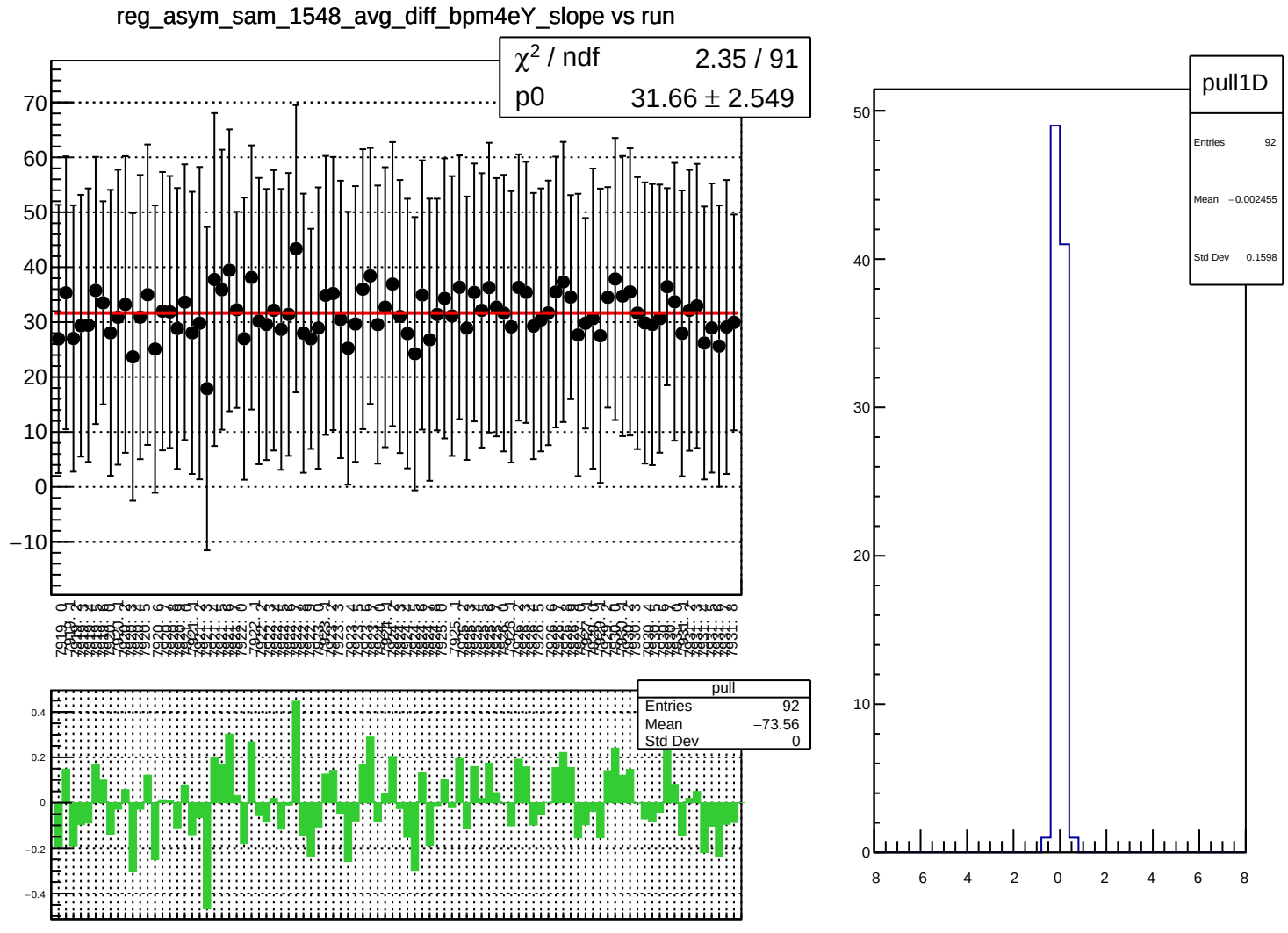

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 5.365 / 91
p0 1.398 ± 0.0307
pull
Entries 92
Mean −5421
Std Dev 0
pull1D
Entries 92
Mean 0.0003771
Std Dev 0.2415

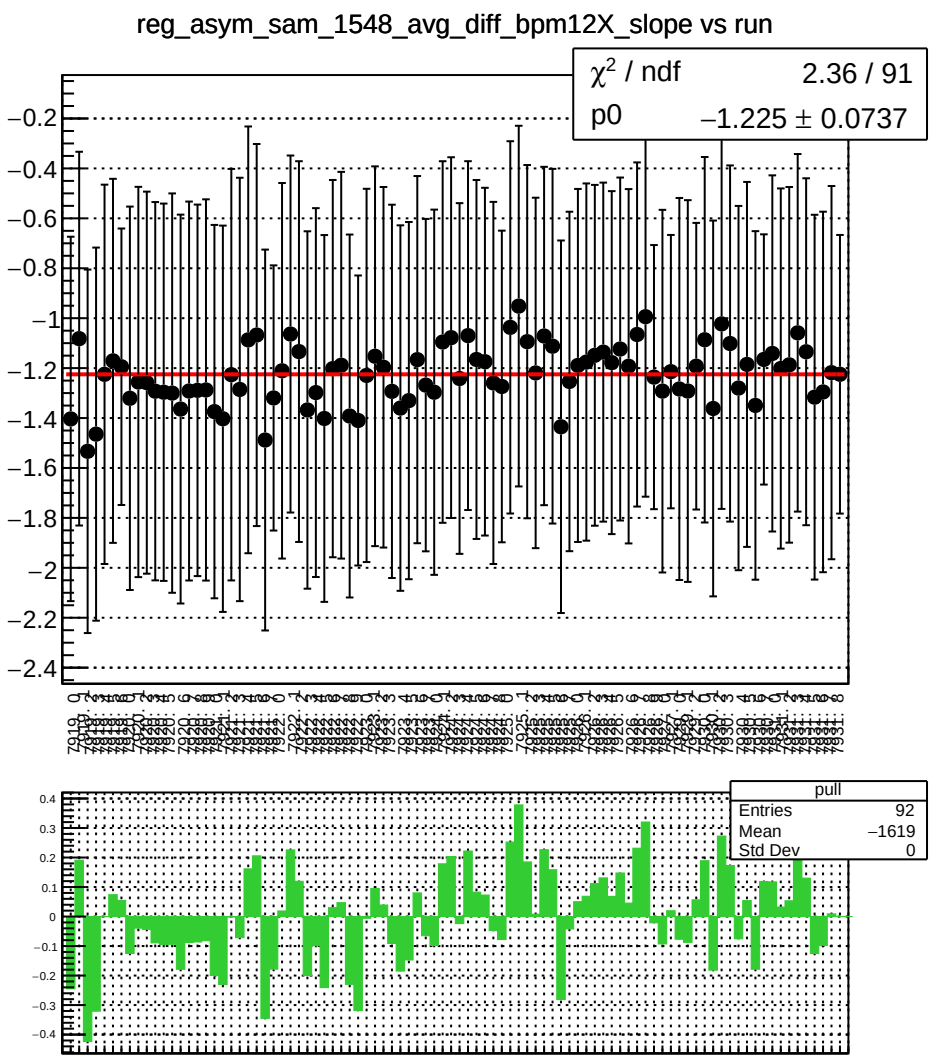

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 1.956 / 91
p0 −32.98 ± 2.15
pull
Entries 92
Mean −538
Std Dev 0

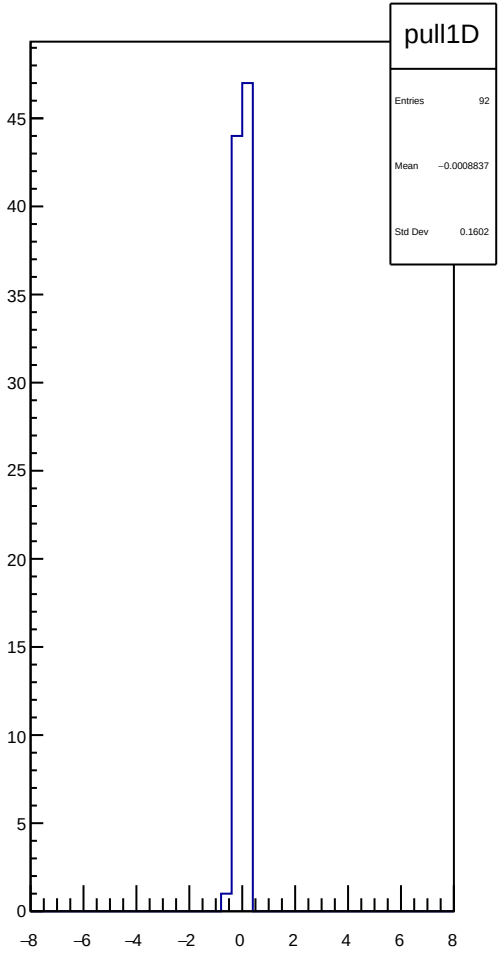

pull1D
Entries 92
Mean −0.003816
Std Dev 0.1458

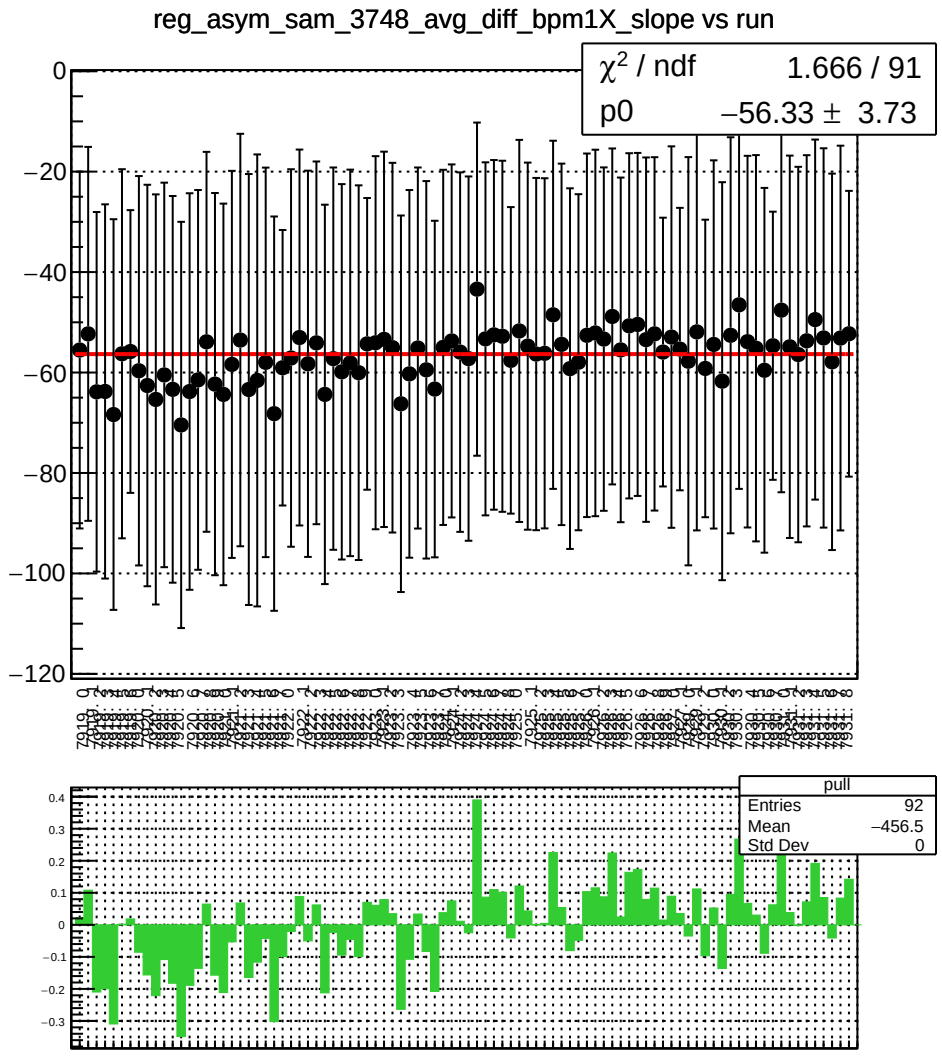

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.427 / 91
p0 48.35 ± 2.217
pull
Entries 92
Mean 106.7
Std Dev 63.32
pull1D
Entries 92
Mean 0.002718
Std Dev 0.1624

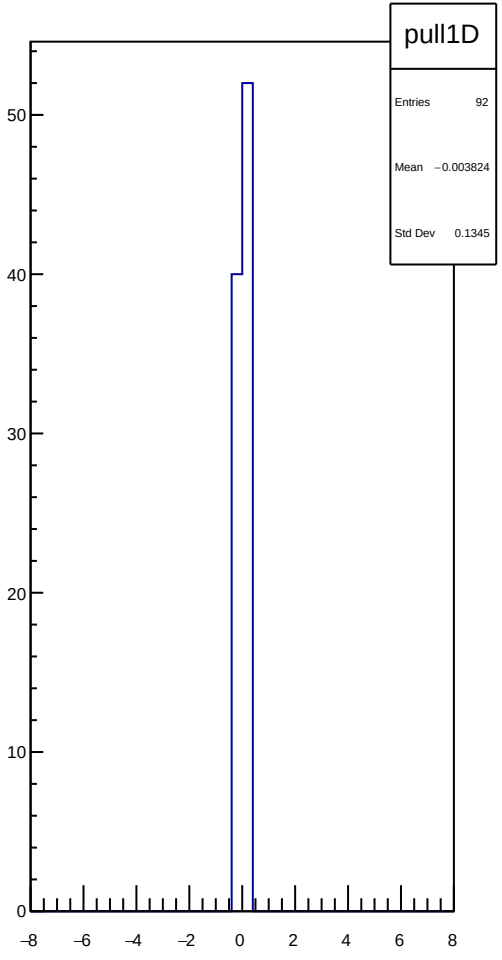

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.017 / 91
p0 −27.33 ± 1.923
pull
Entries 92
Mean −660.2
Std Dev 0
pull1D
Entries 92
Mean 0.003413
Std Dev 0.148

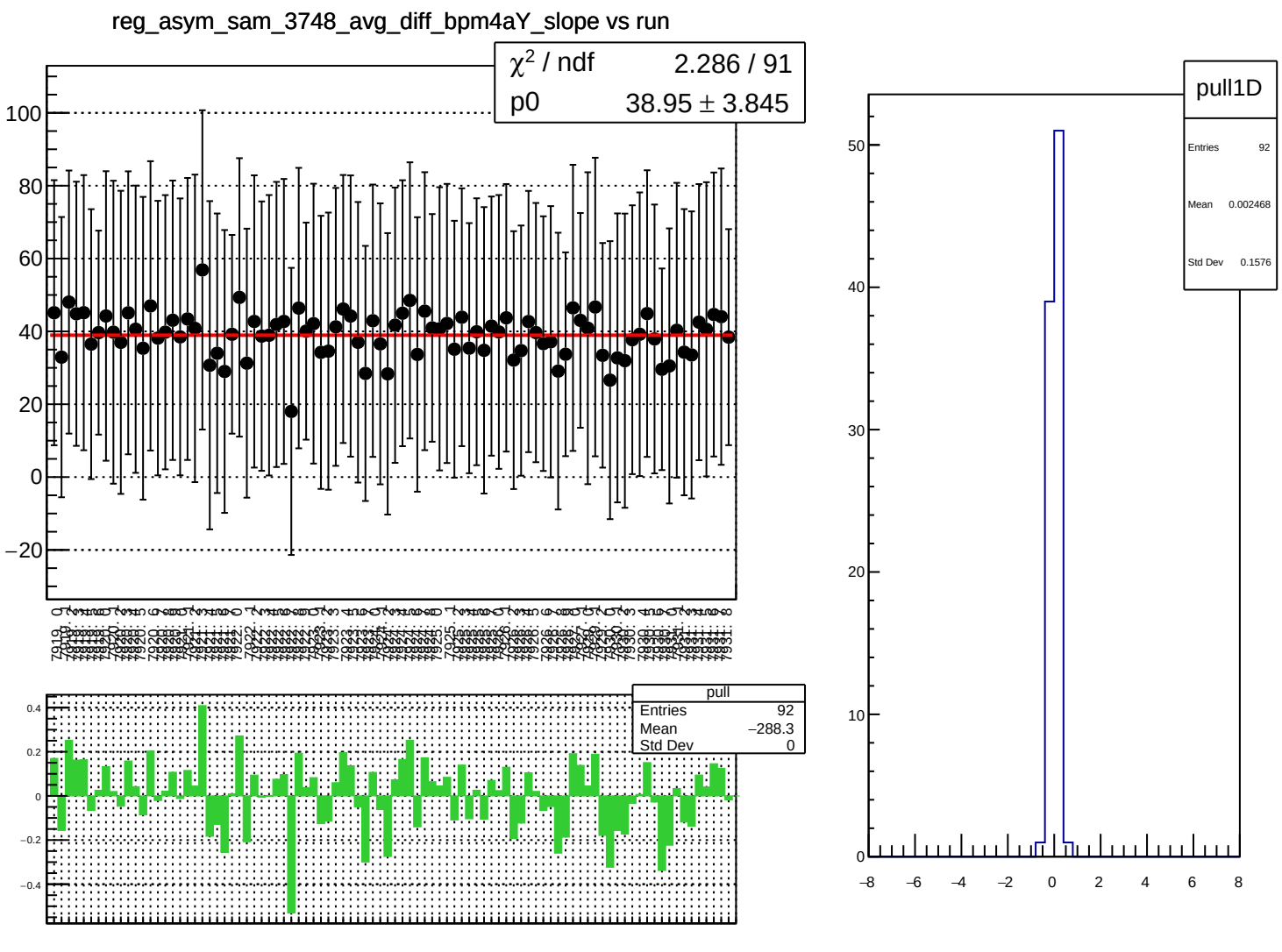

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.35 / 91
p0 31.66 ± 2.549
pull
Entries 92
Mean −73.56
Std Dev 0
pull1D
Entries 92
Mean −0.002455
Std Dev 0.1598

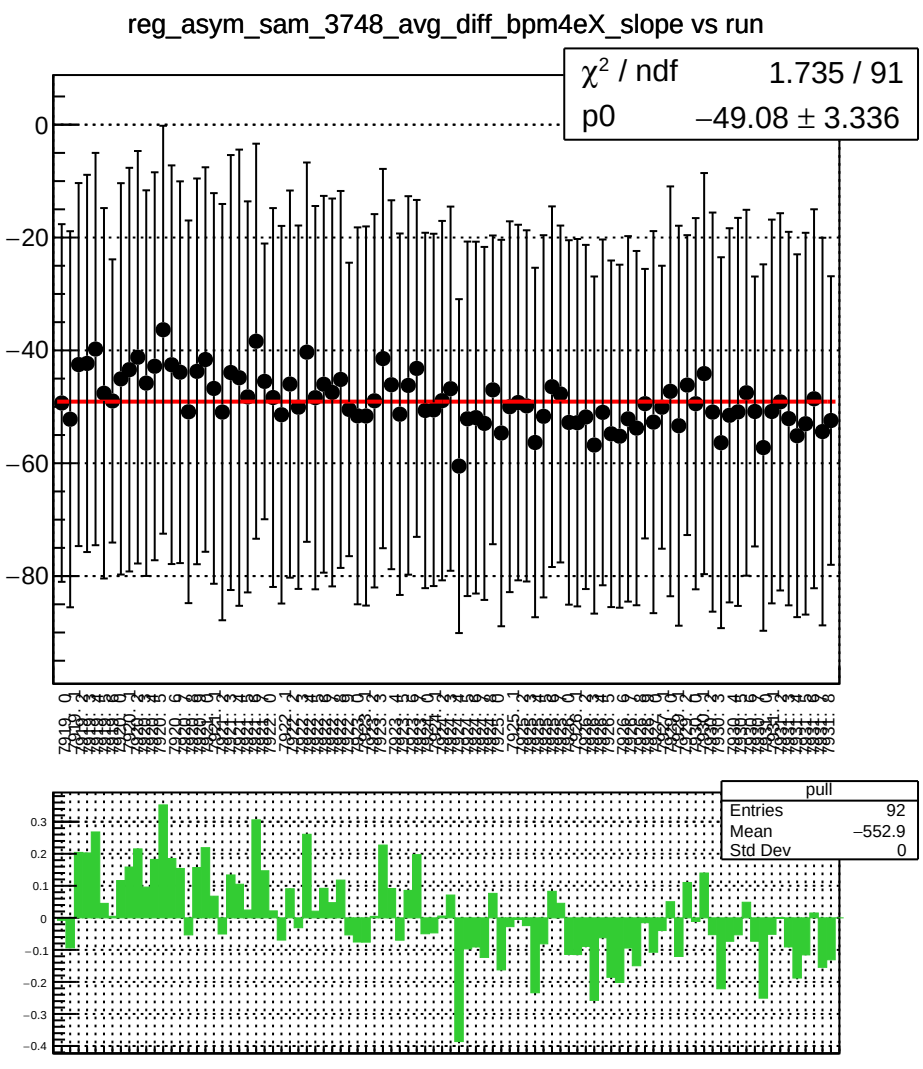

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 2.36 / 91
p0 −1.225 ± 0.0737
pull
Entries 92
Mean −1619
Std Dev 0

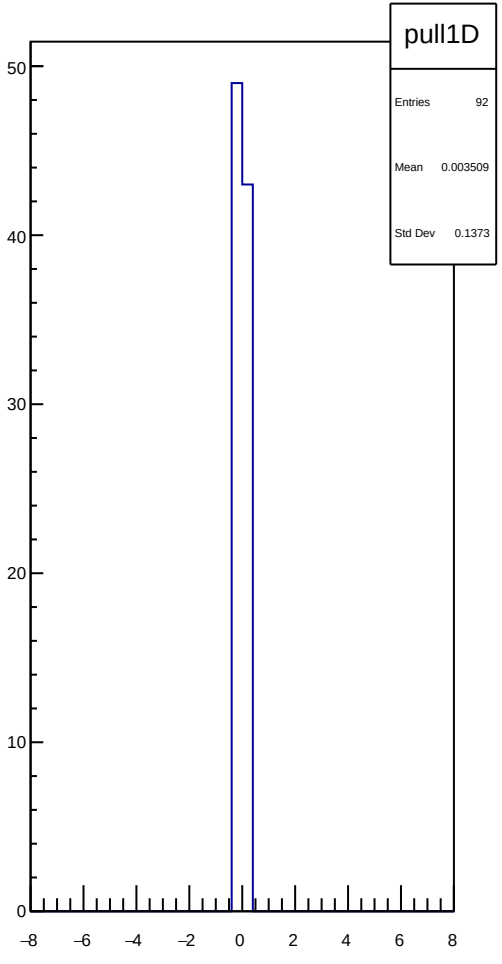

pull1D
Entries 92
Mean −0.0008837
Std Dev 0.1602

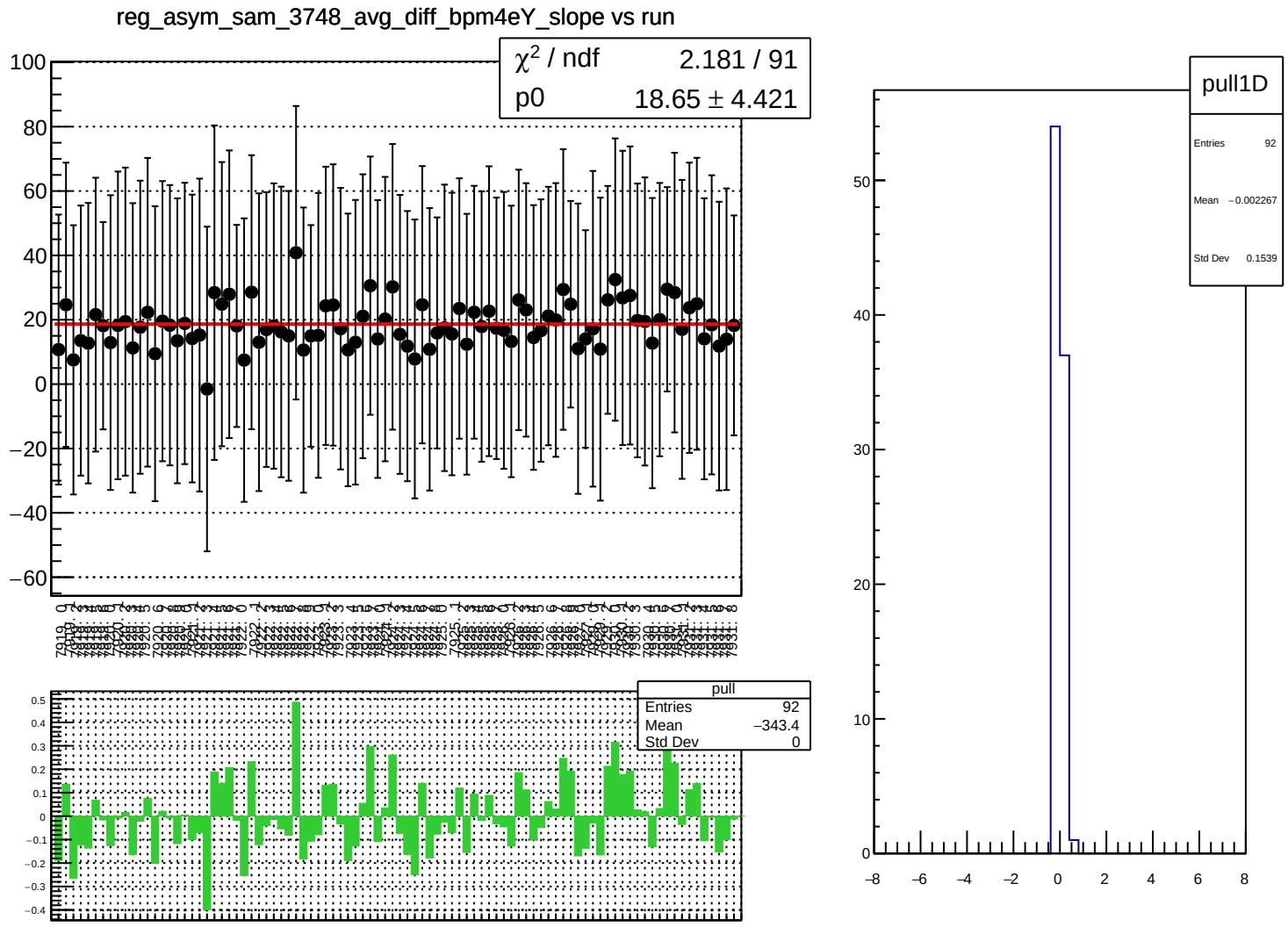

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 1.666 / 91
p0 −56.33 ± 3.73
pull
Entries 92
Mean −456.5
Std Dev 0

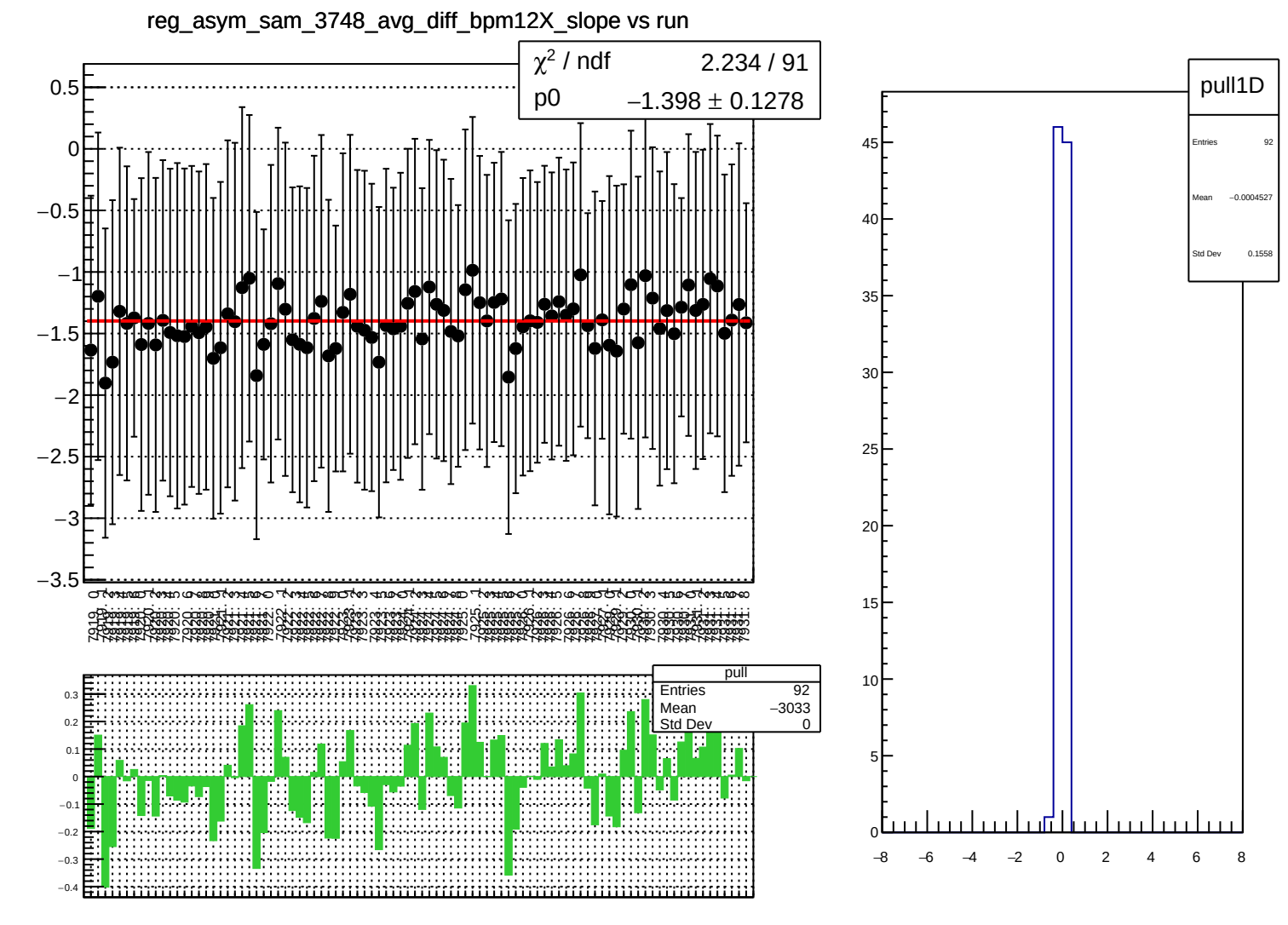

pull1D
Entries 92
Mean −0.003824
Std Dev 0.1345

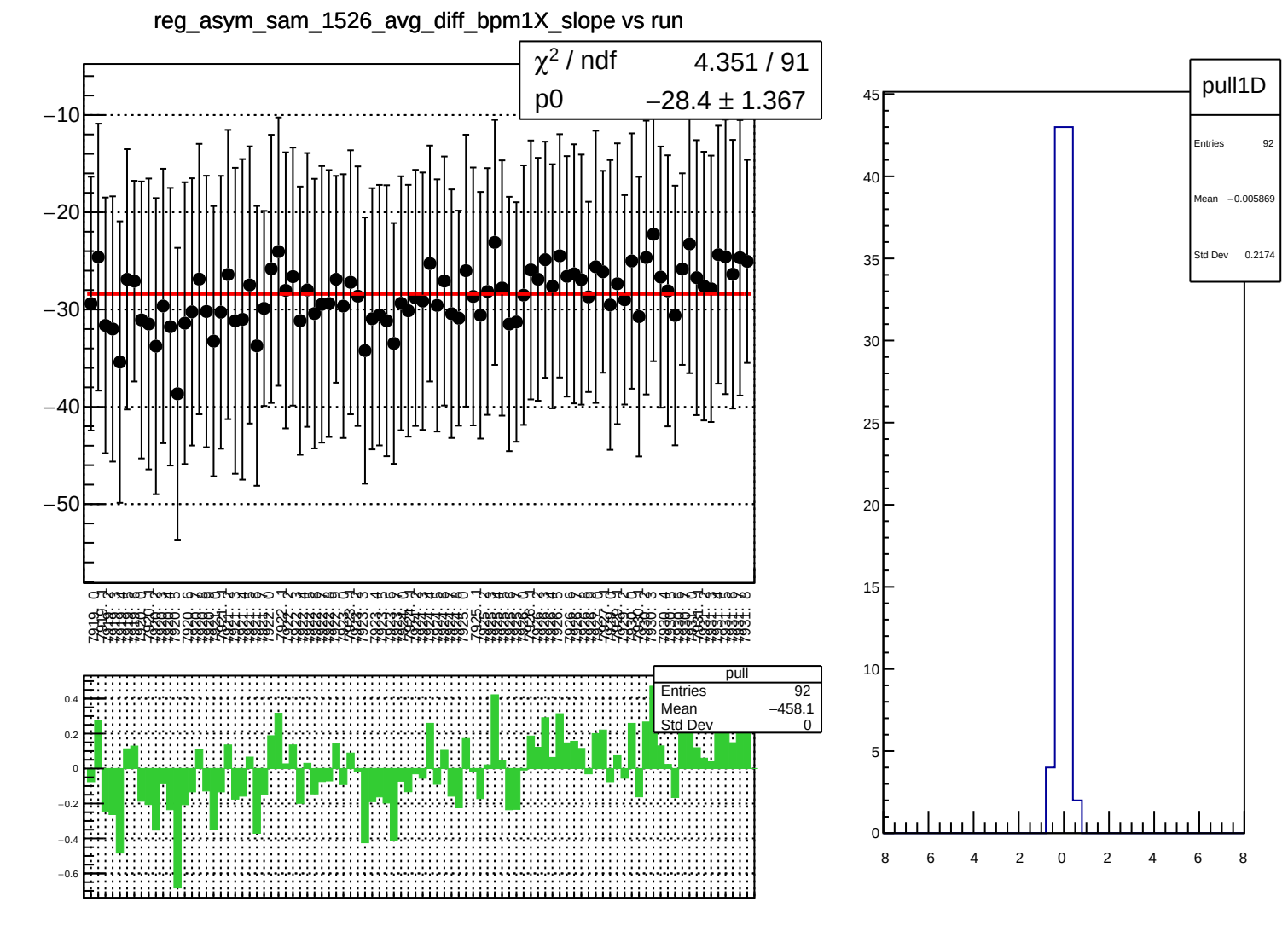

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.286 / 91
p0 38.95 ± 3.845
pull
Entries 92
Mean −288.3
Std Dev 0
pull1D
Entries 92
Mean 0.002468
Std Dev 0.1576

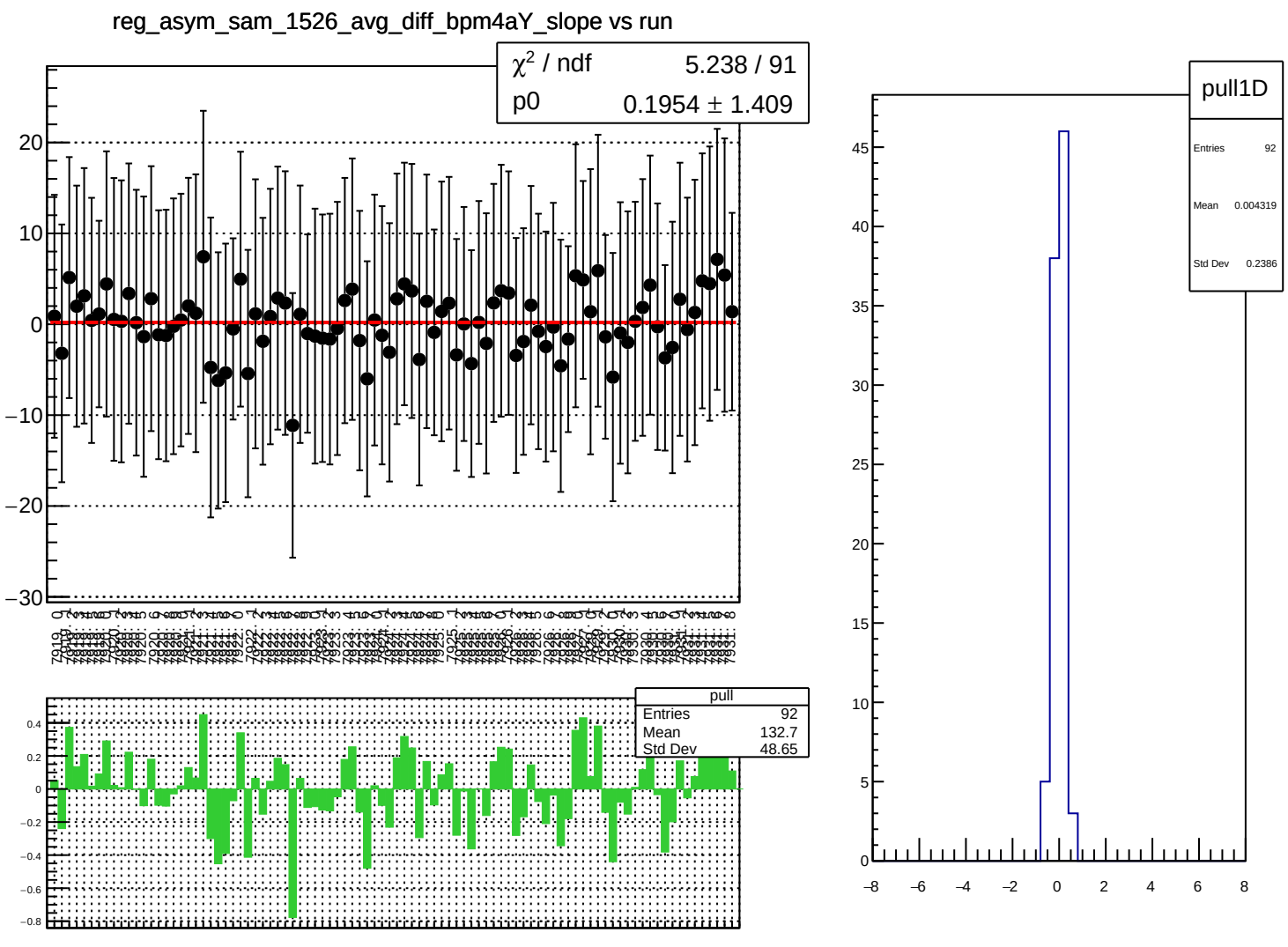

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.735 / 91
p0 −49.08 ± 3.336
pull
Entries 92
Mean −552.9
Std Dev 0

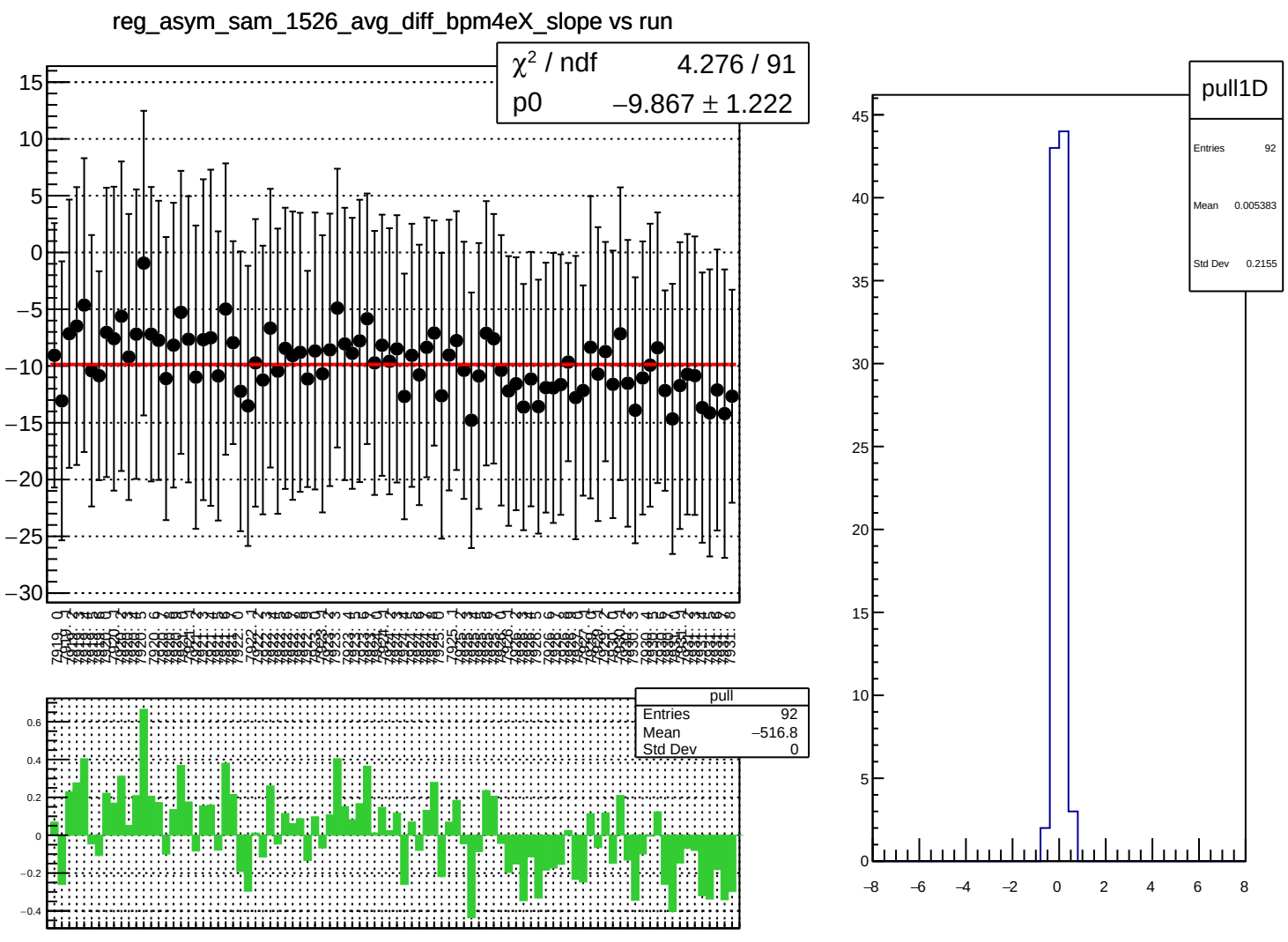

pull1D
Entries 92
Mean 0.003509
Std Dev 0.1373

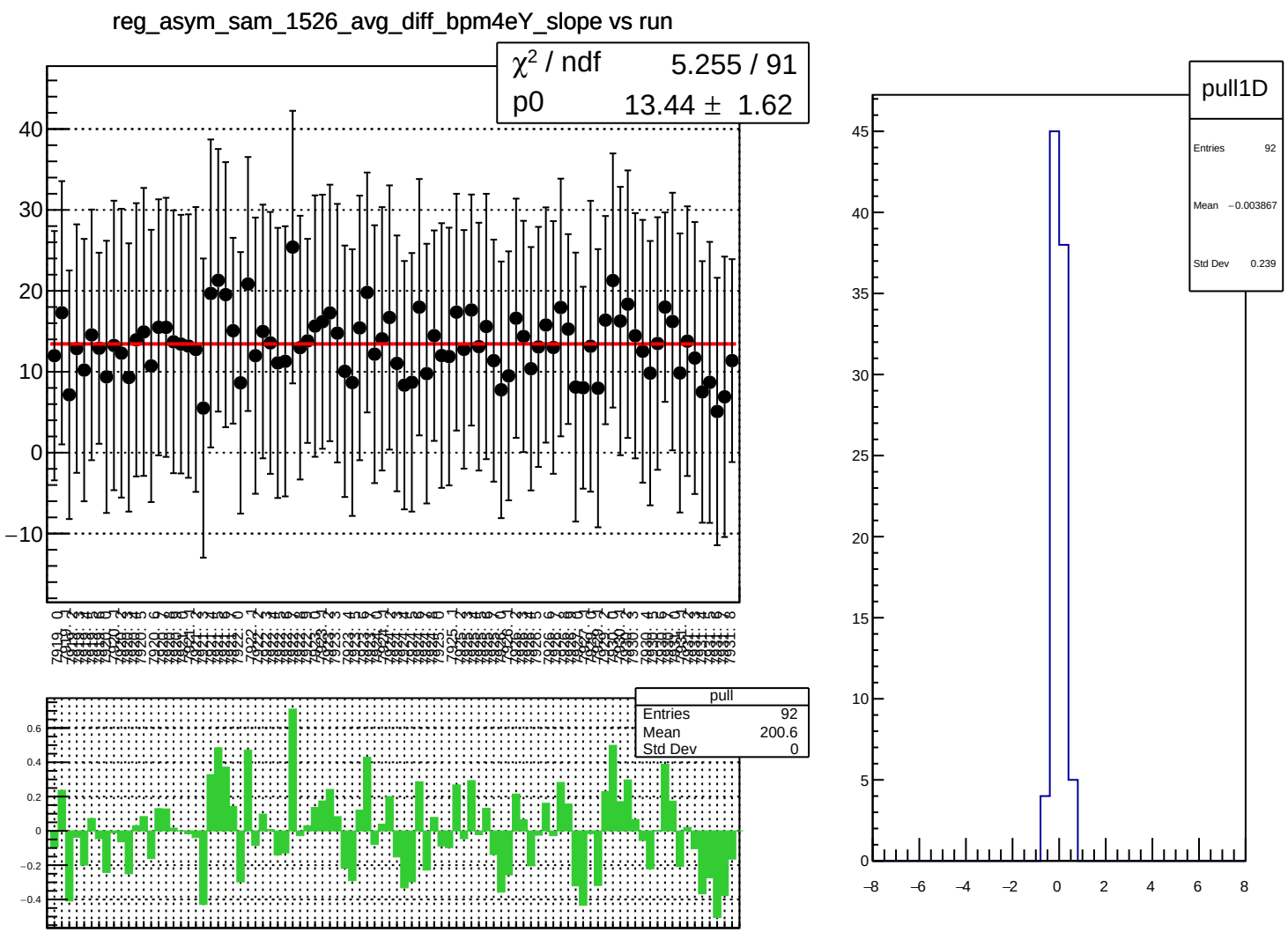

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.181 / 91
p0 18.65 ± 4.421
pull
Entries 92
Mean −343.4
Std Dev 0
pull1D
Entries 92
Mean −0.002267
Std Dev 0.1539

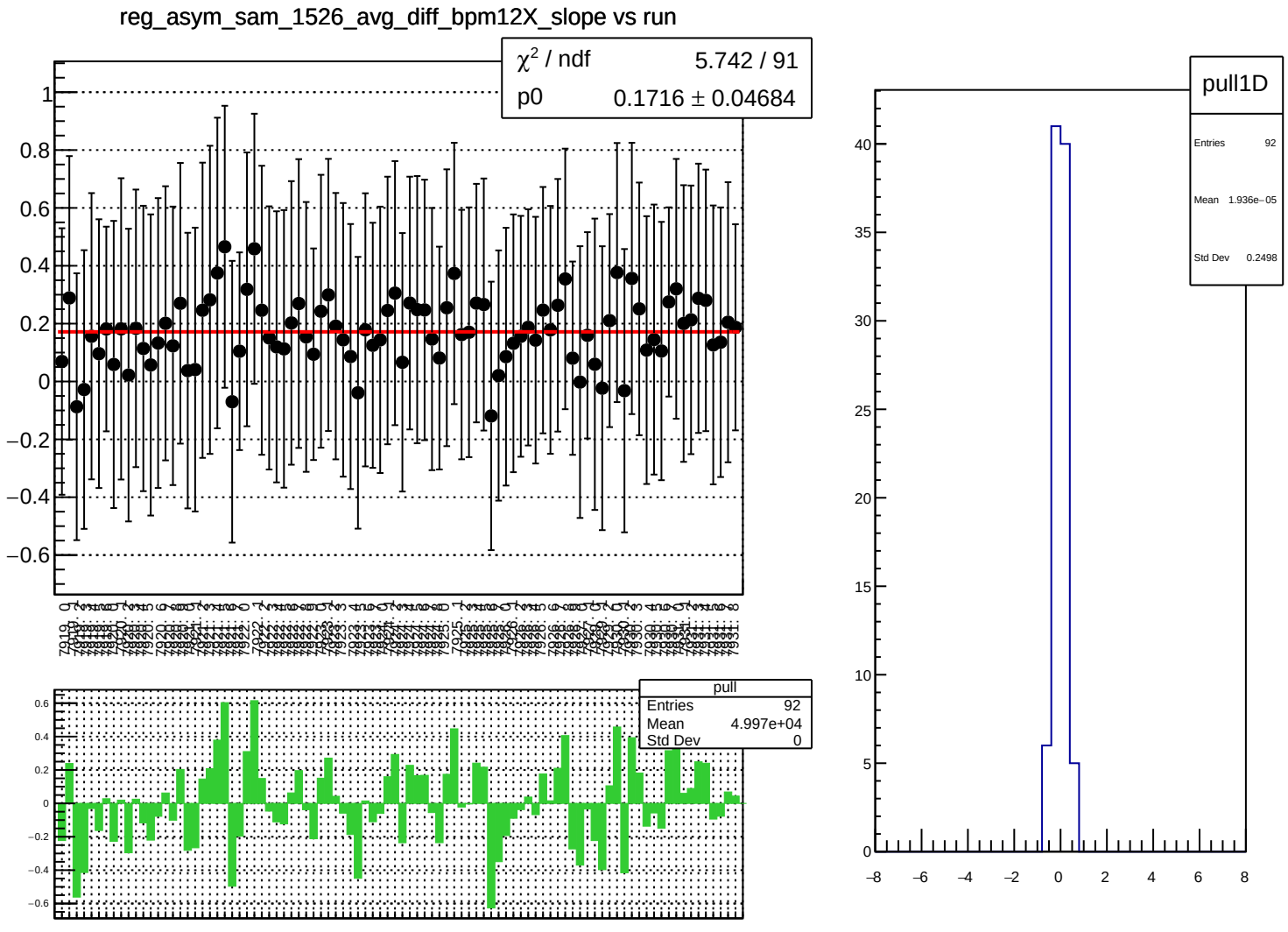

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 2.234 / 91
p0 −1.398 ± 0.1278
pull
Entries 92
Mean −3033
Std Dev 0
pull1D
Entries 92
Mean −0.0004527
Std Dev 0.1558

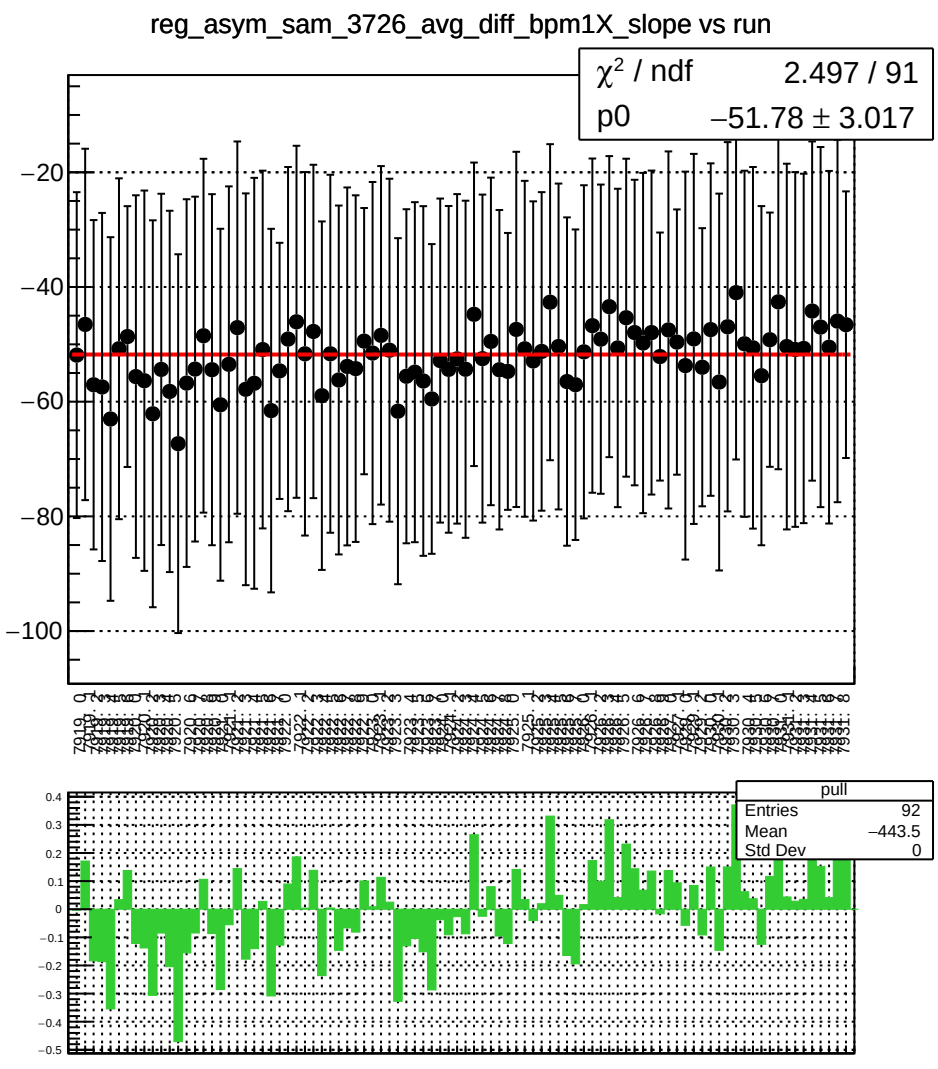

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 4.351 / 91
p0 −28.4 ± 1.367
−10
−20
−30
−40
−50
pull
Entries 92
Mean −458.1
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 92
Mean −0.005869
Std Dev 0.2174
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

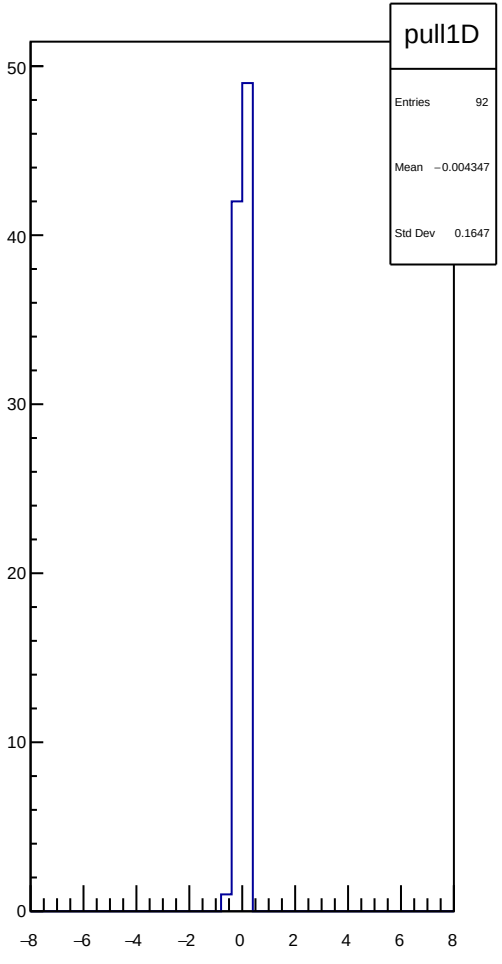

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.238 / 91
p0 0.1954 ± 1.409
pull
Entries 92
Mean 132.7
Std Dev 48.65
pull1D
Entries 92
Mean 0.004319
Std Dev 0.2386

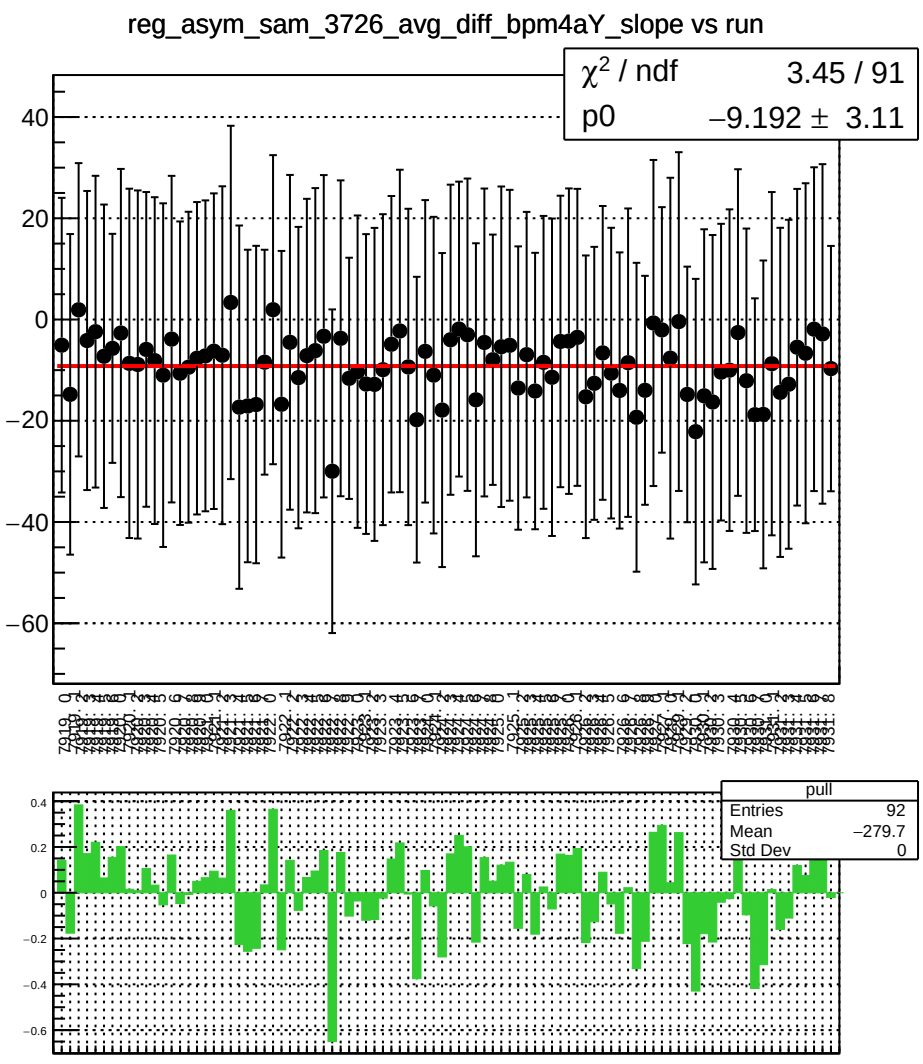

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.276 / 91
p0 −9.867 ± 1.222
pull
Entries 92
Mean −516.8
Std Dev 0
pull1D
Entries 92
Mean 0.005383
Std Dev 0.2155

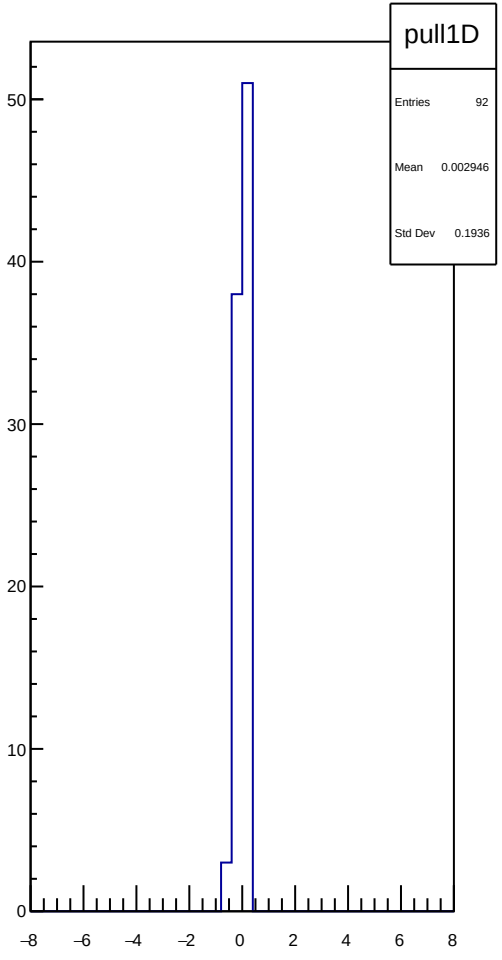

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.255 / 91
p0 13.44 ± 1.62
pull
Entries 92
Mean 200.6
Std Dev 0
pull1D
Entries 92
Mean −0.003867
Std Dev 0.239

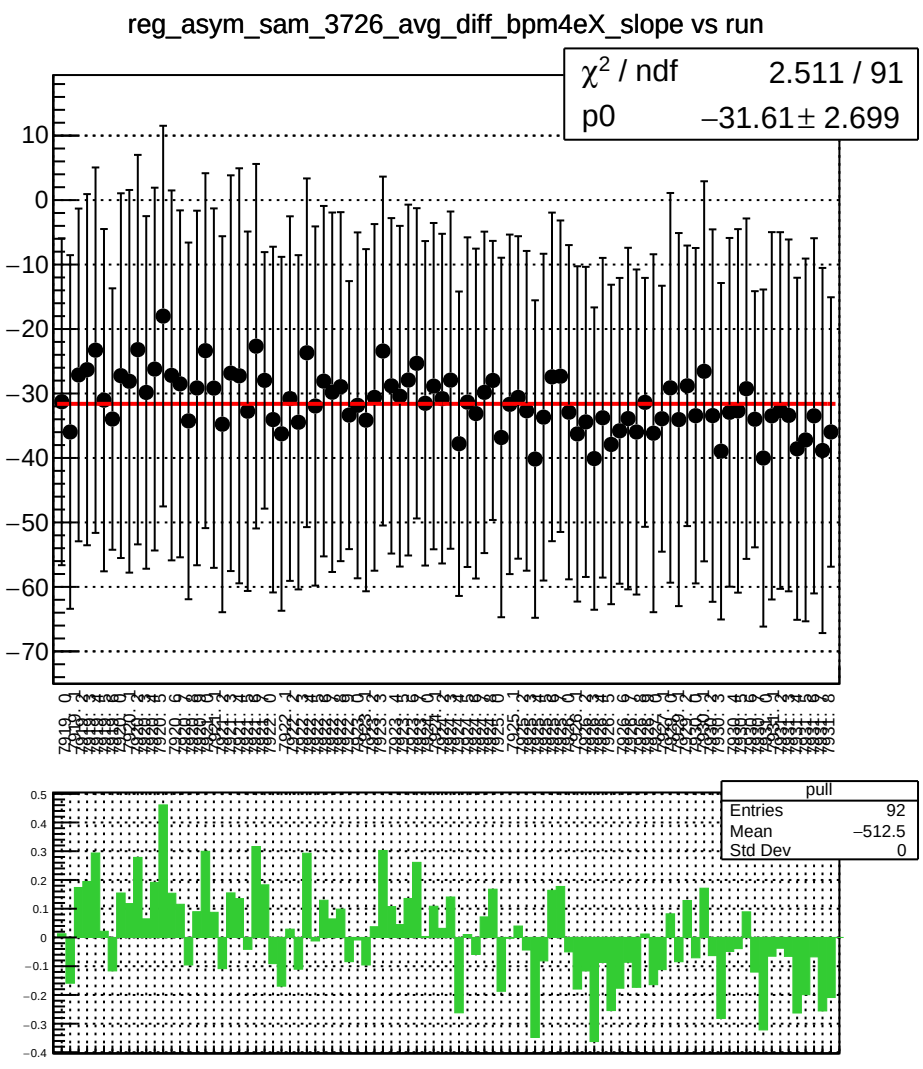

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 5.742 / 91
p0 0.1716 ± 0.04684
pull
Entries 92
Mean 4.997e+04
Std Dev 0
pull1D
Entries 92
Mean 1.936e−05
Std Dev 0.2498

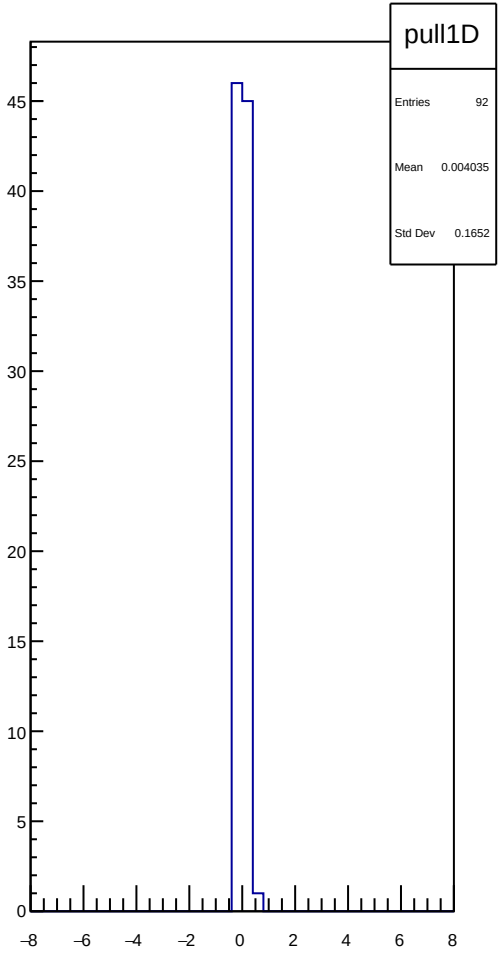

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 2.497 / 91
p0 −51.78 ± 3.017
pull
Entries 92
Mean −443.5
Std Dev 0

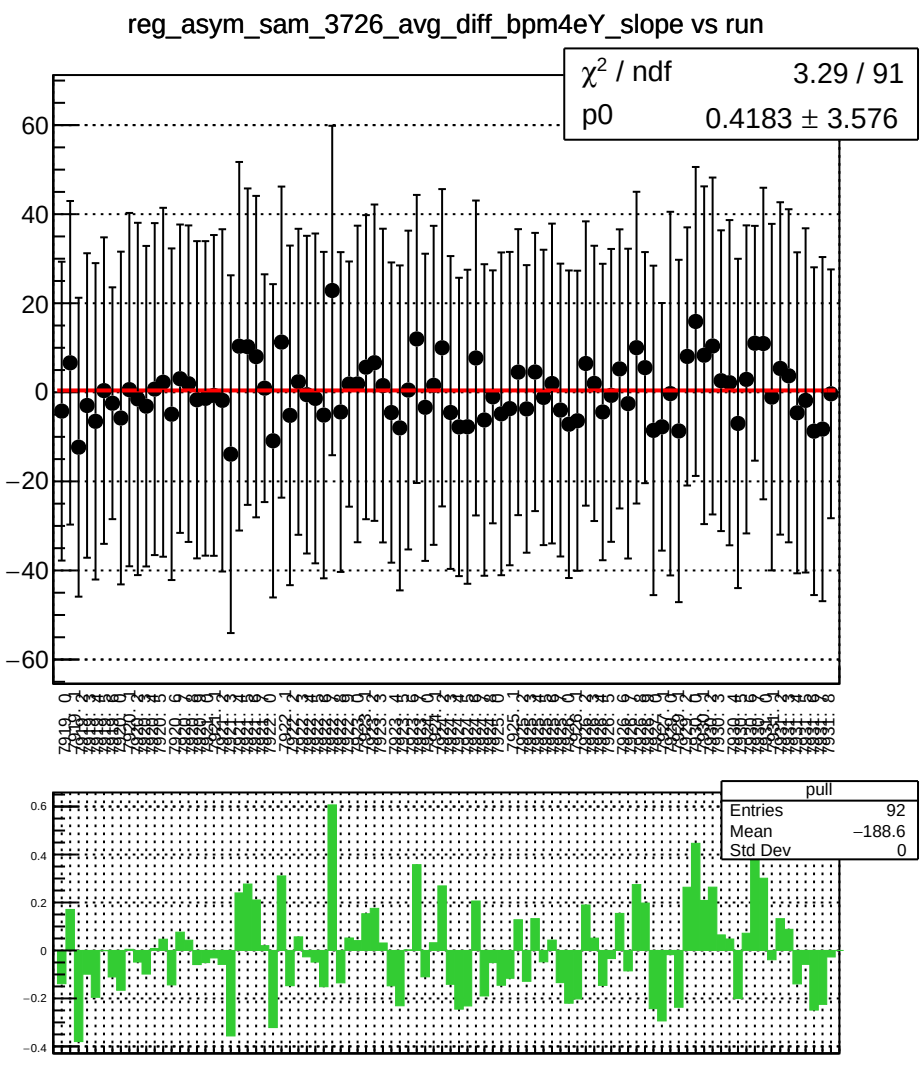

pull1D
Entries 92
Mean −0.004347
Std Dev 0.1647

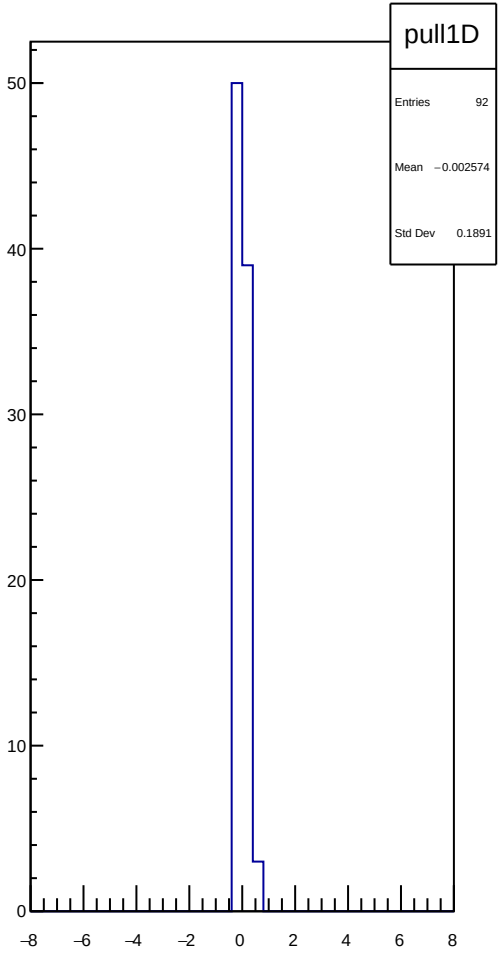

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.45 / 91
p0 −9.192 ± 3.11
pull
Entries 92
Mean −279.7
Std Dev 0

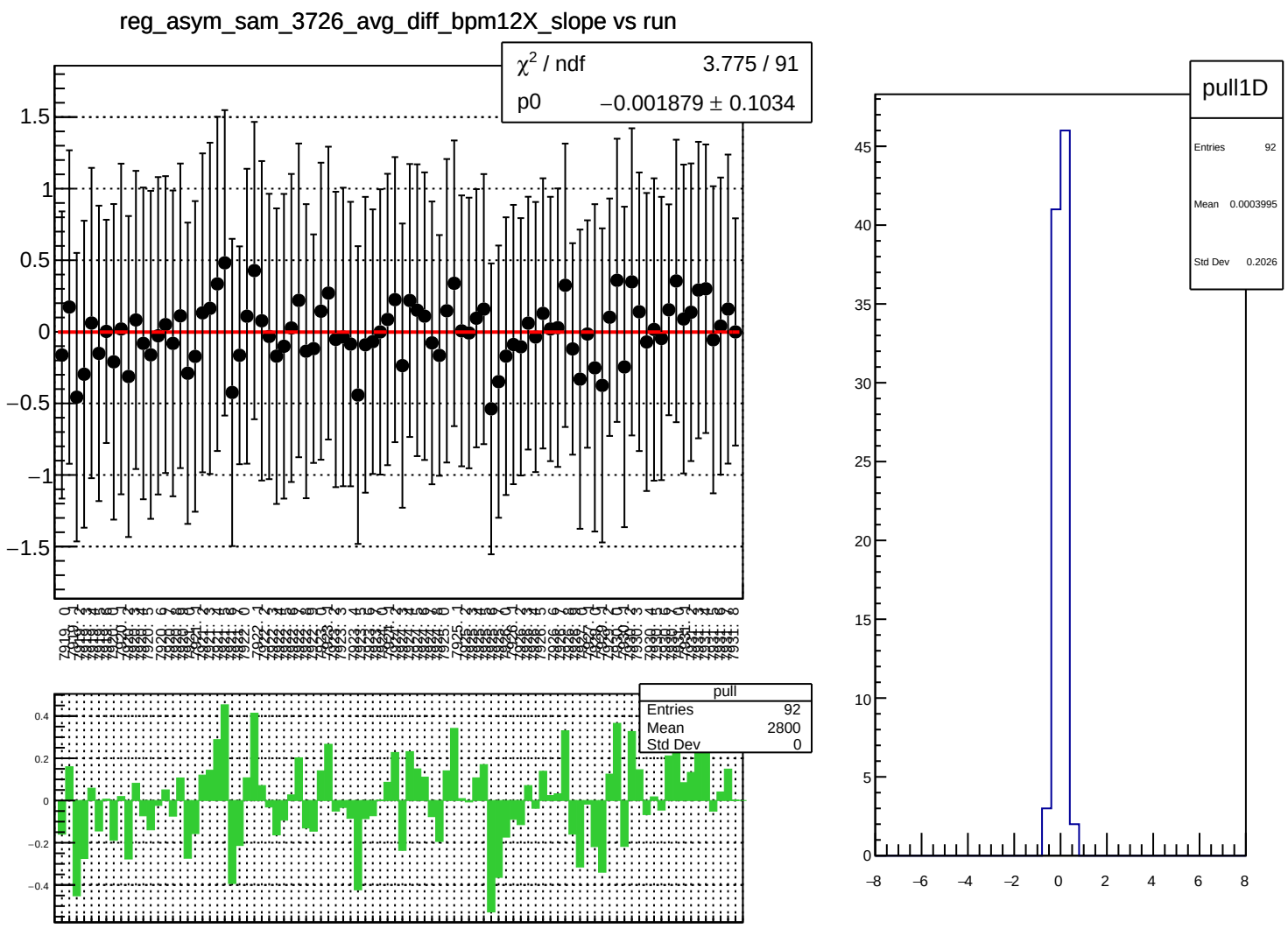

pull1D
Entries 92
Mean 0.002946
Std Dev 0.1936

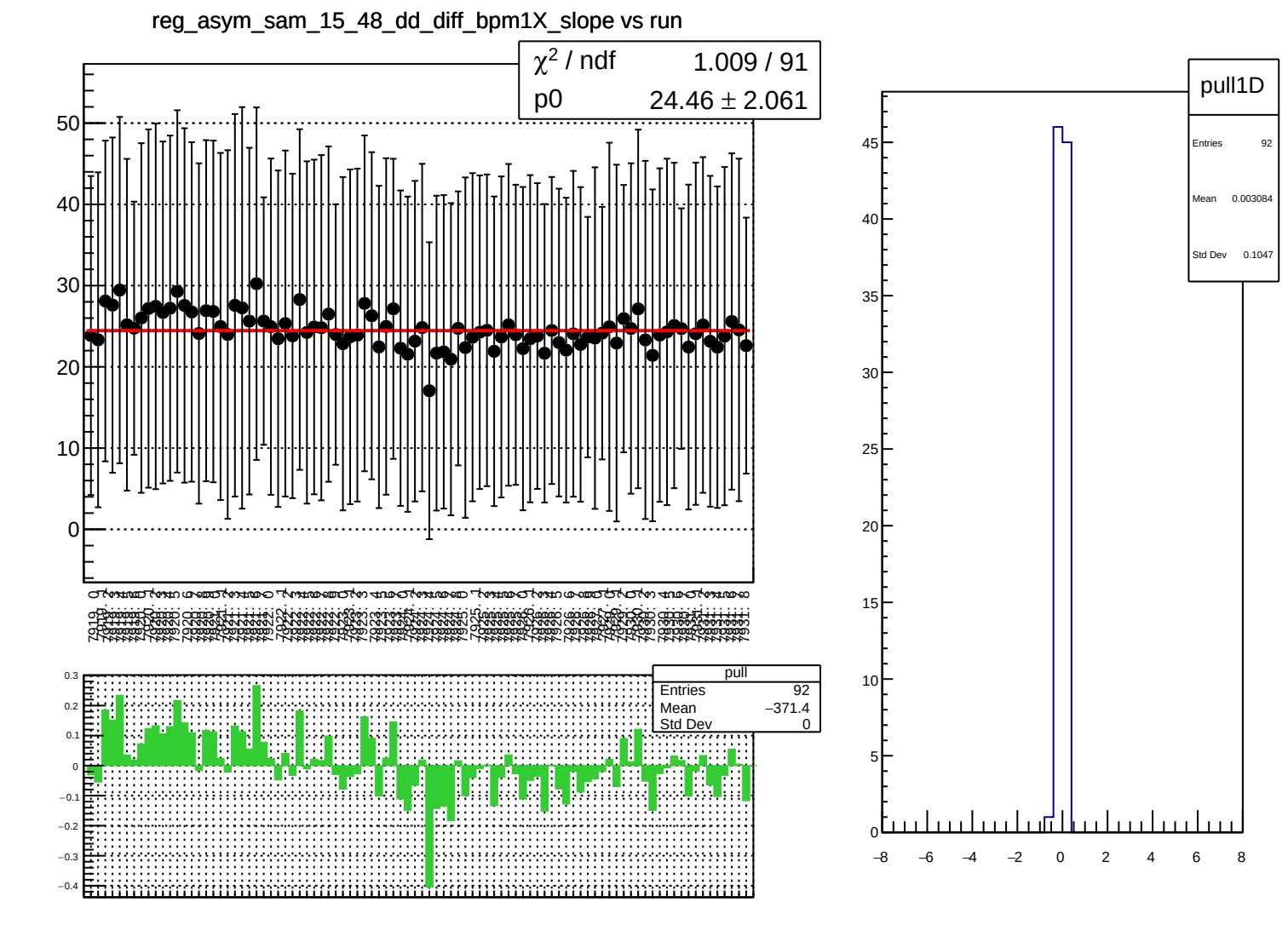

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.511 / 91
p0 −31.61 ± 2.699
pull
Entries 92
Mean −512.5
Std Dev 0

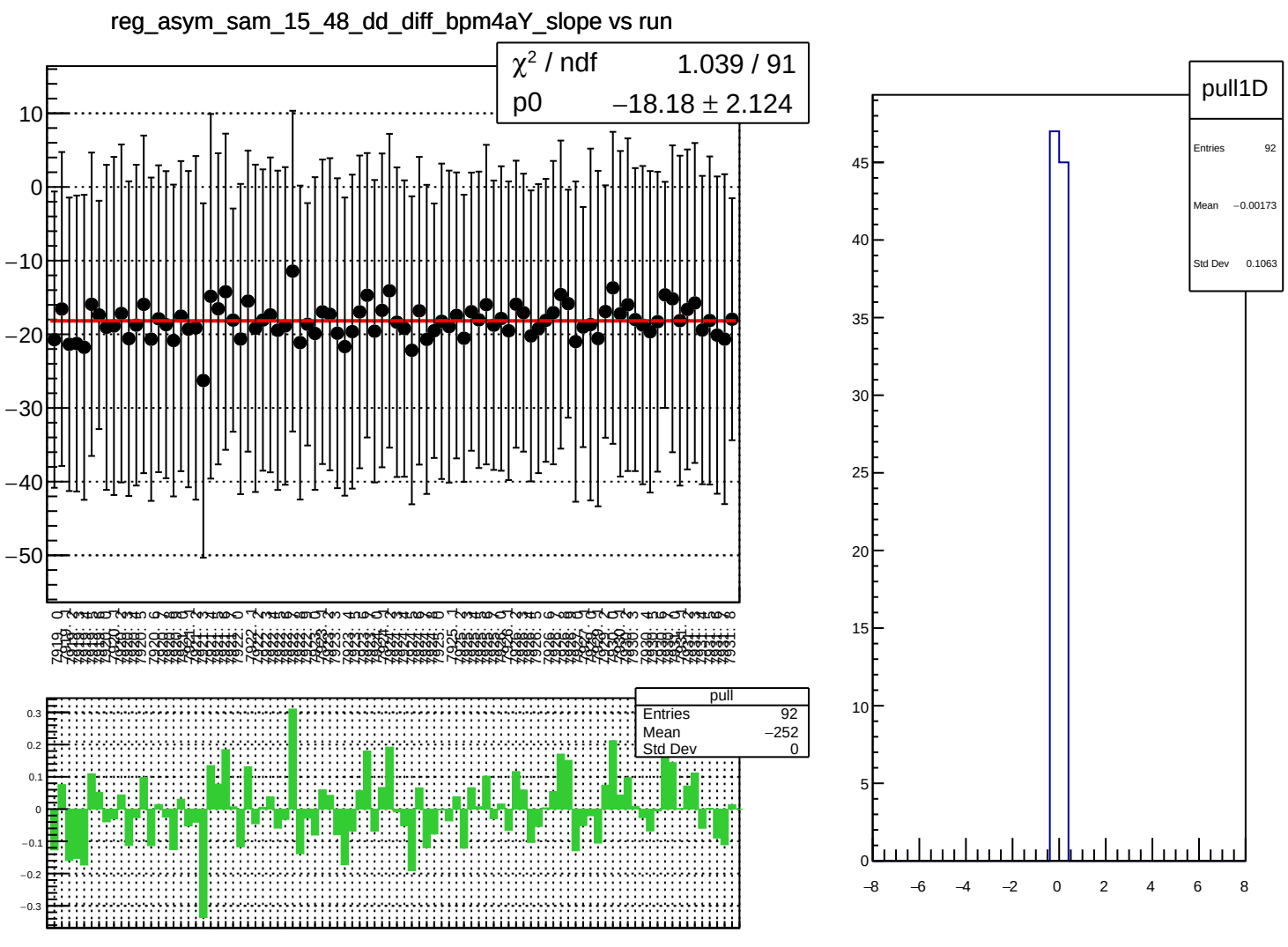

pull1D
Entries 92
Mean 0.004035
Std Dev 0.1652

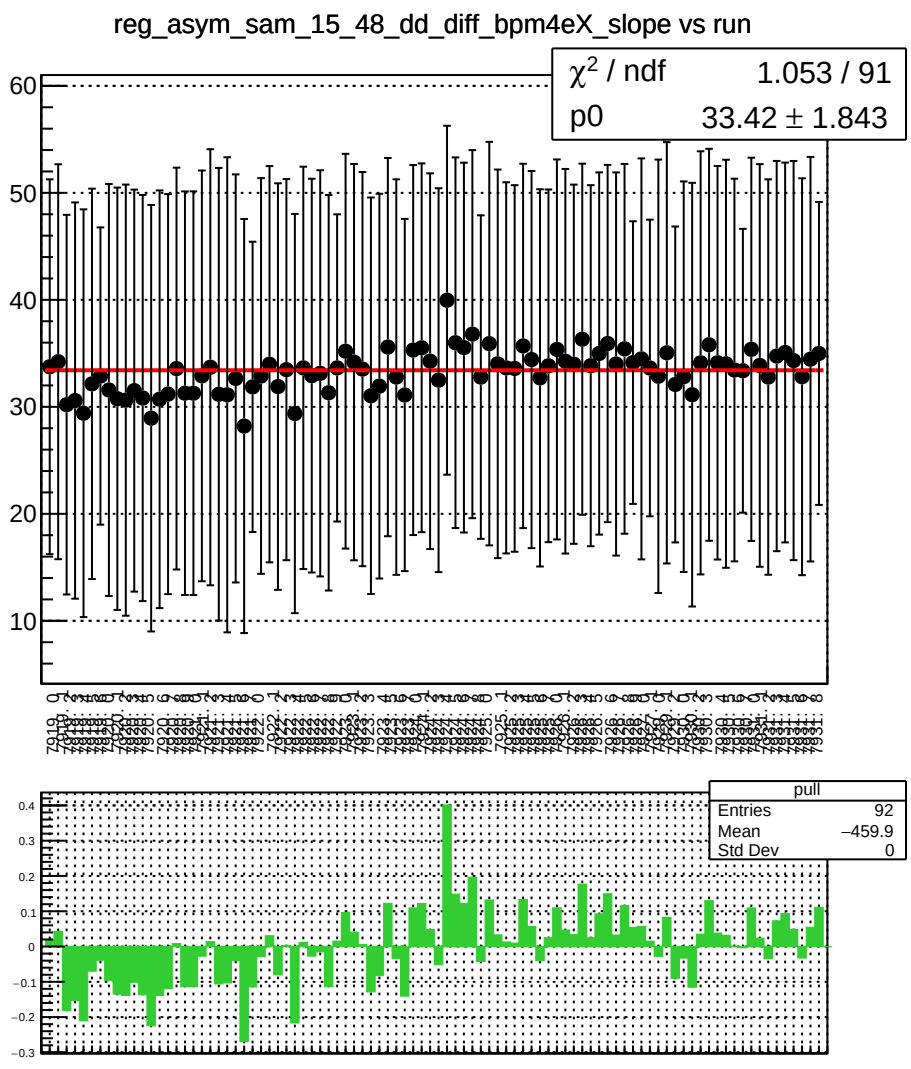

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.29 / 91
p0 0.4183 ± 3.576
pull
Entries 92
Mean −188.6
Std Dev 0

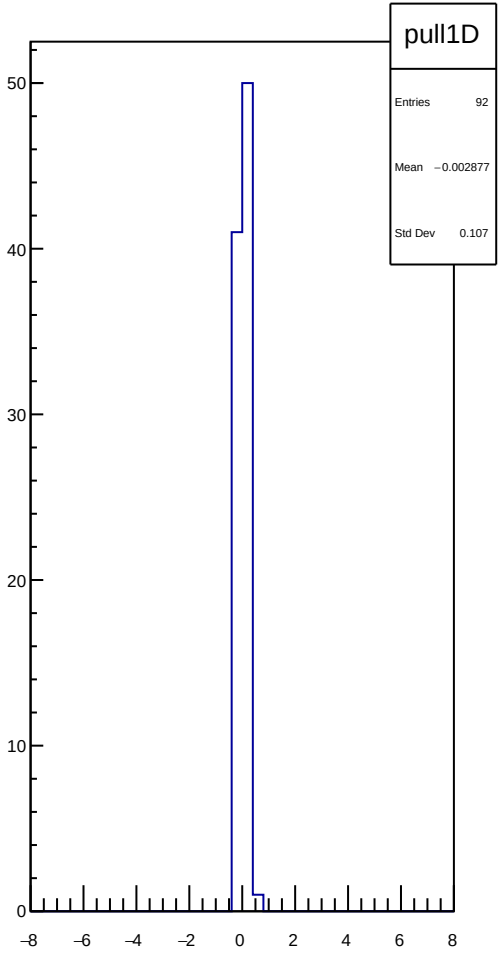

pull1D
Entries 92
Mean −0.002574
Std Dev 0.1891

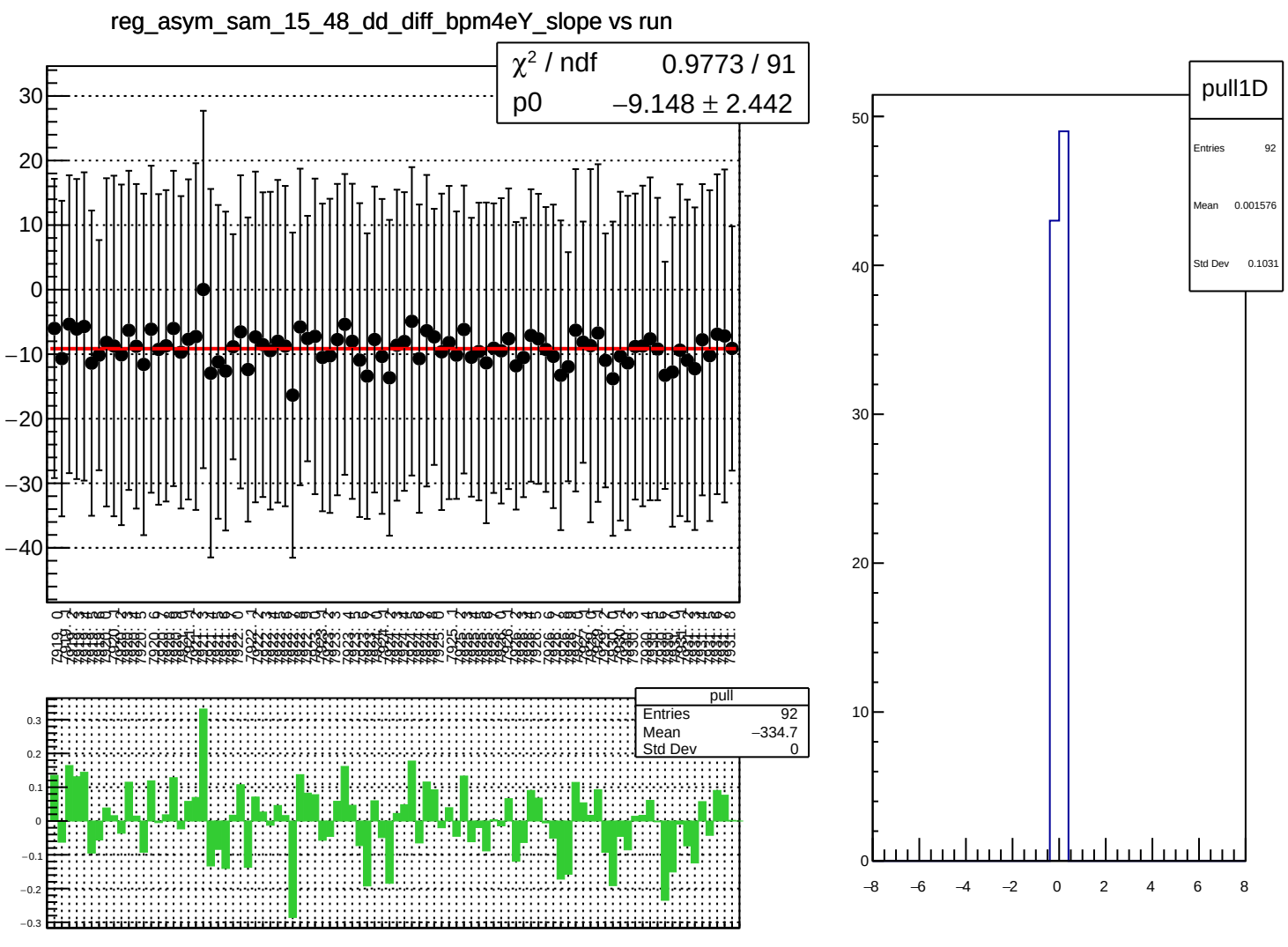

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 3.775 / 91
p0 −0.001879 ± 0.1034
pull
Entries 92
Mean 2800
Std Dev 0
pull1D
Entries 92
Mean 0.0003995
Std Dev 0.2026

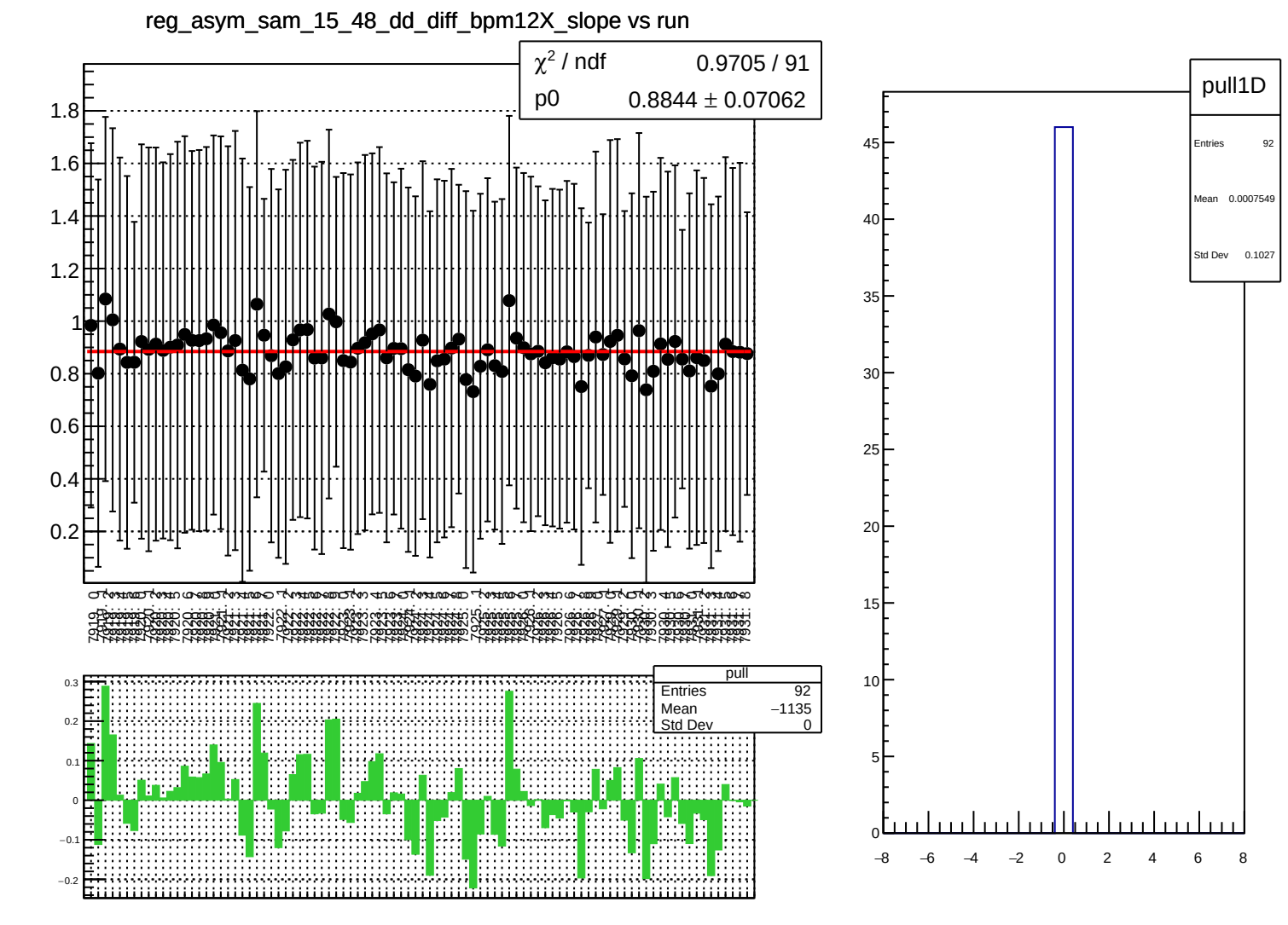

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 1.009 / 91
p0 24.46 ± 2.061
pull
Entries 92
Mean −371.4
Std Dev 0
pull1D
Entries 92
Mean 0.003084
Std Dev 0.1047

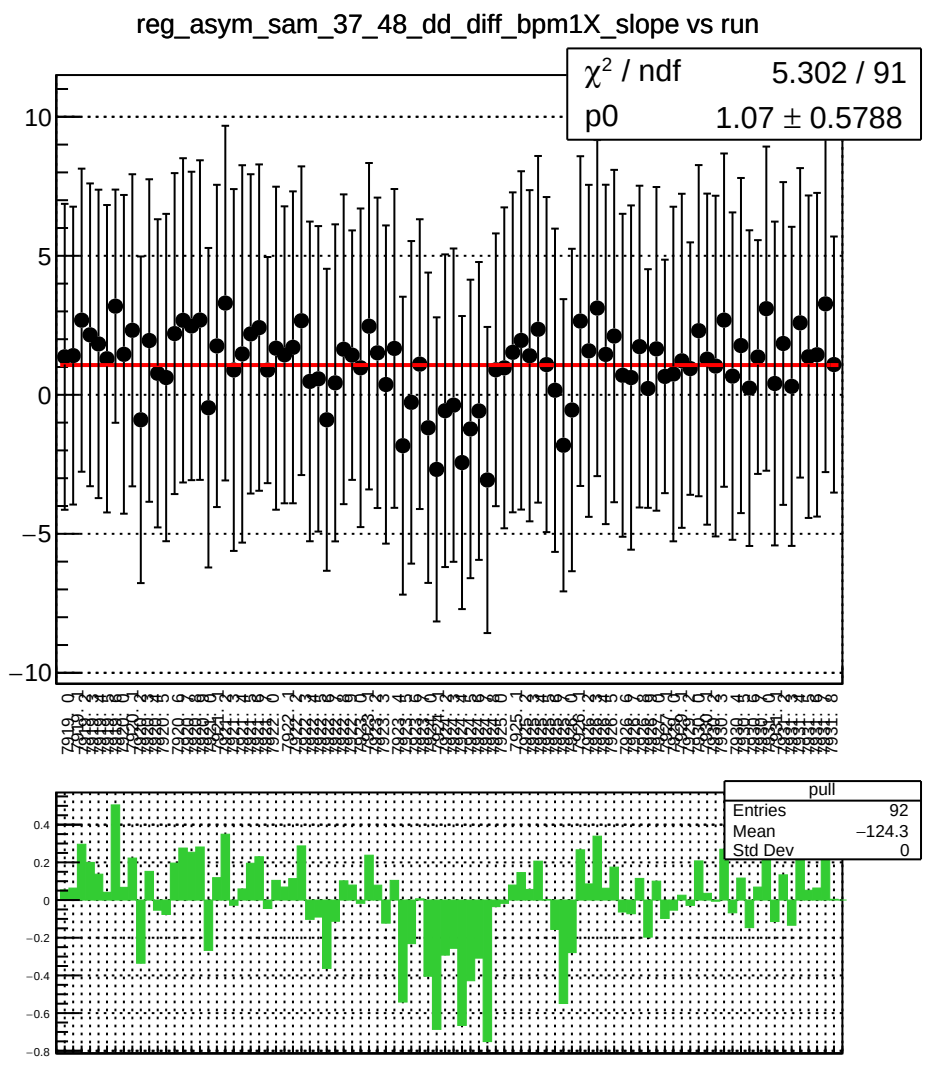

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.039 / 91
p0 −18.18 ± 2.124
pull
Entries 92
Mean −252
Std Dev 0
pull1D
Entries 92
Mean −0.00173
Std Dev 0.1063

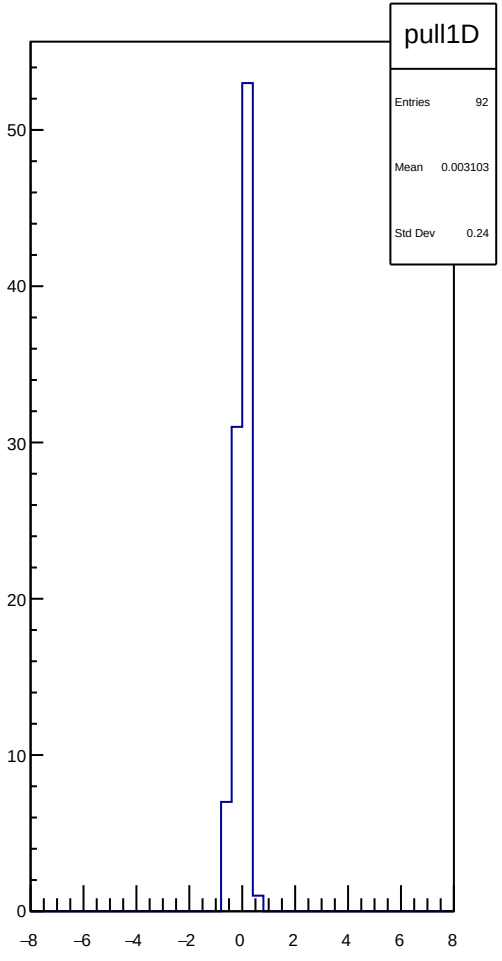

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.053 / 91
p0 33.42 ± 1.843
pull
Entries 92
Mean −459.9
Std Dev 0

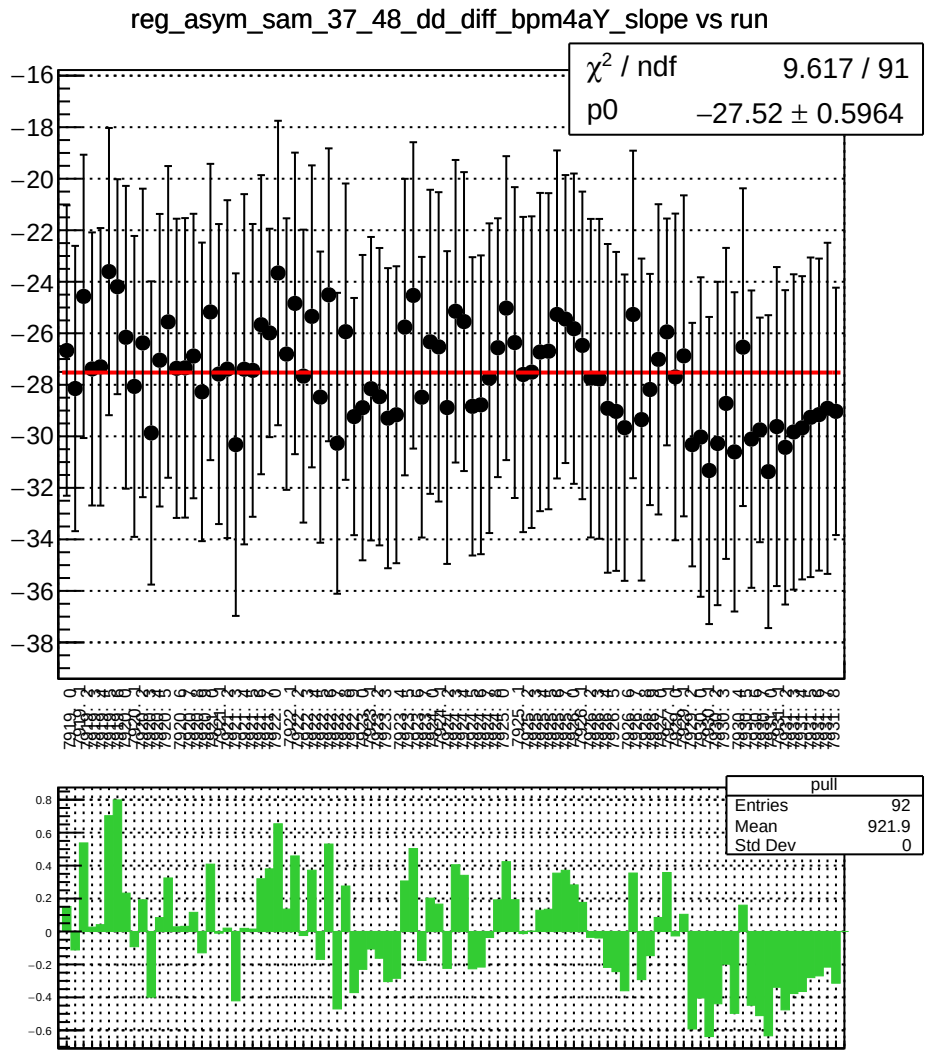

pull1D
Entries 92
Mean −0.002877
Std Dev 0.107

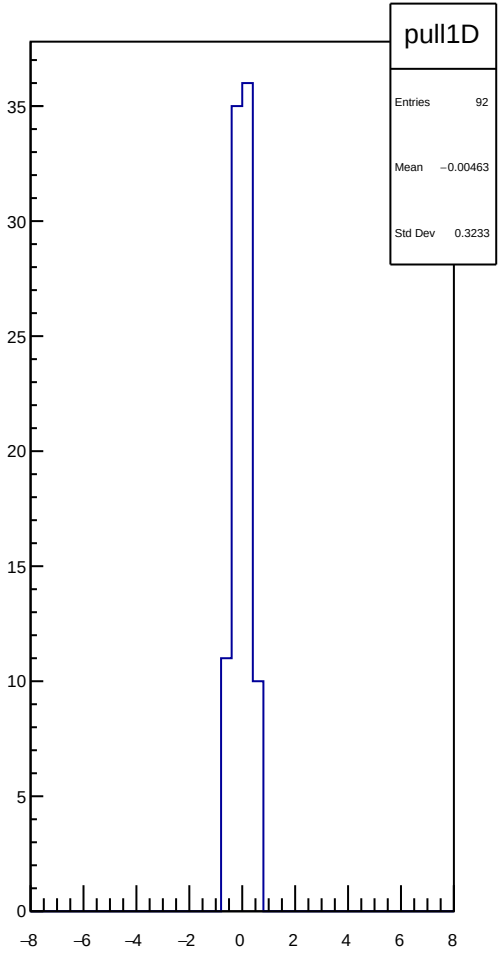

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.9773 / 91
p0 −9.148 ± 2.442
pull
Entries 92
Mean −334.7
Std Dev 0
pull1D
Entries 92
Mean 0.001576
Std Dev 0.1031

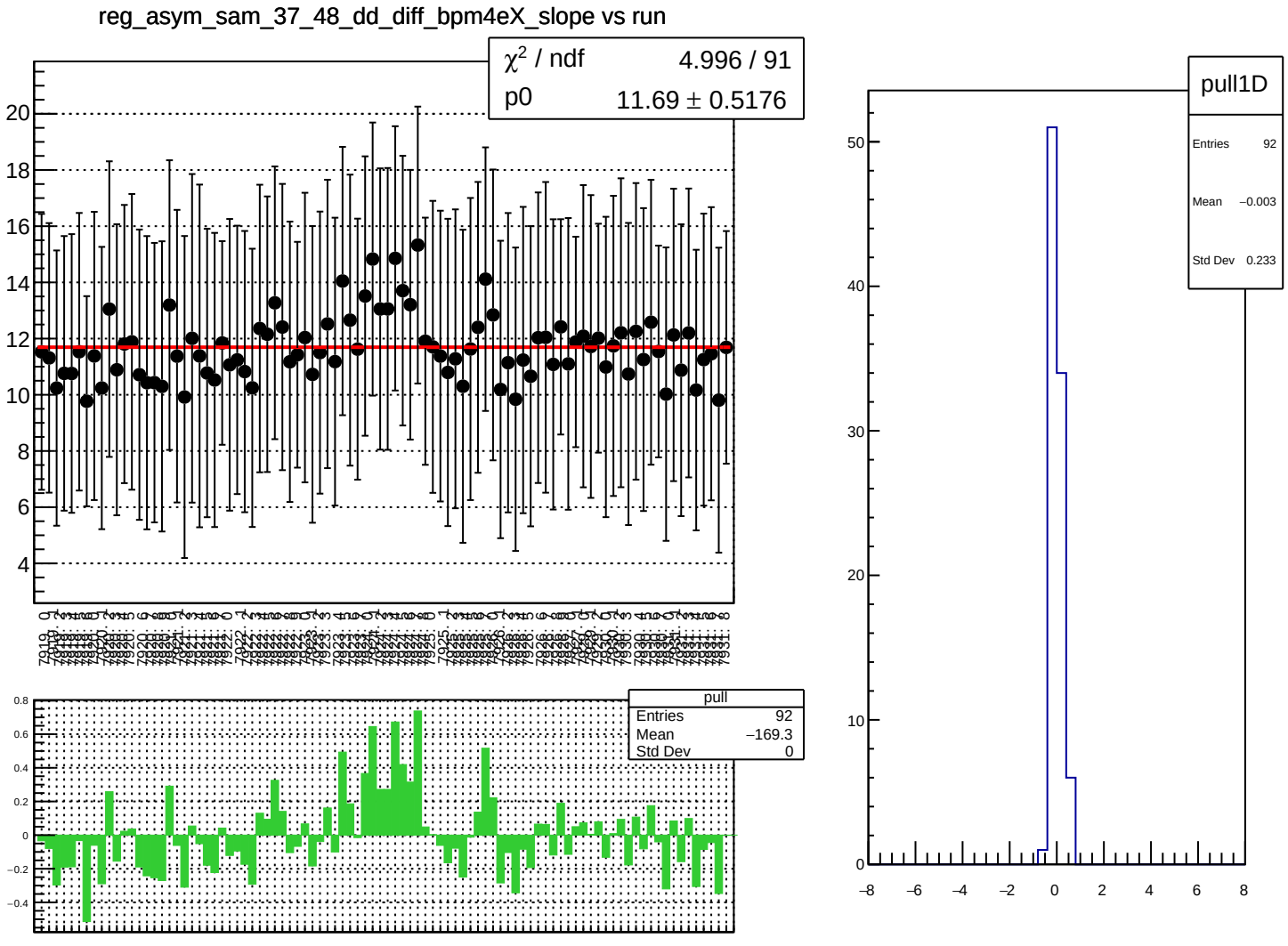

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 0.9705 / 91
p0 0.8844 ± 0.07062
pull
Entries 92
Mean −1135
Std Dev 0
pull1D
Entries 92
Mean 0.0007549
Std Dev 0.1027

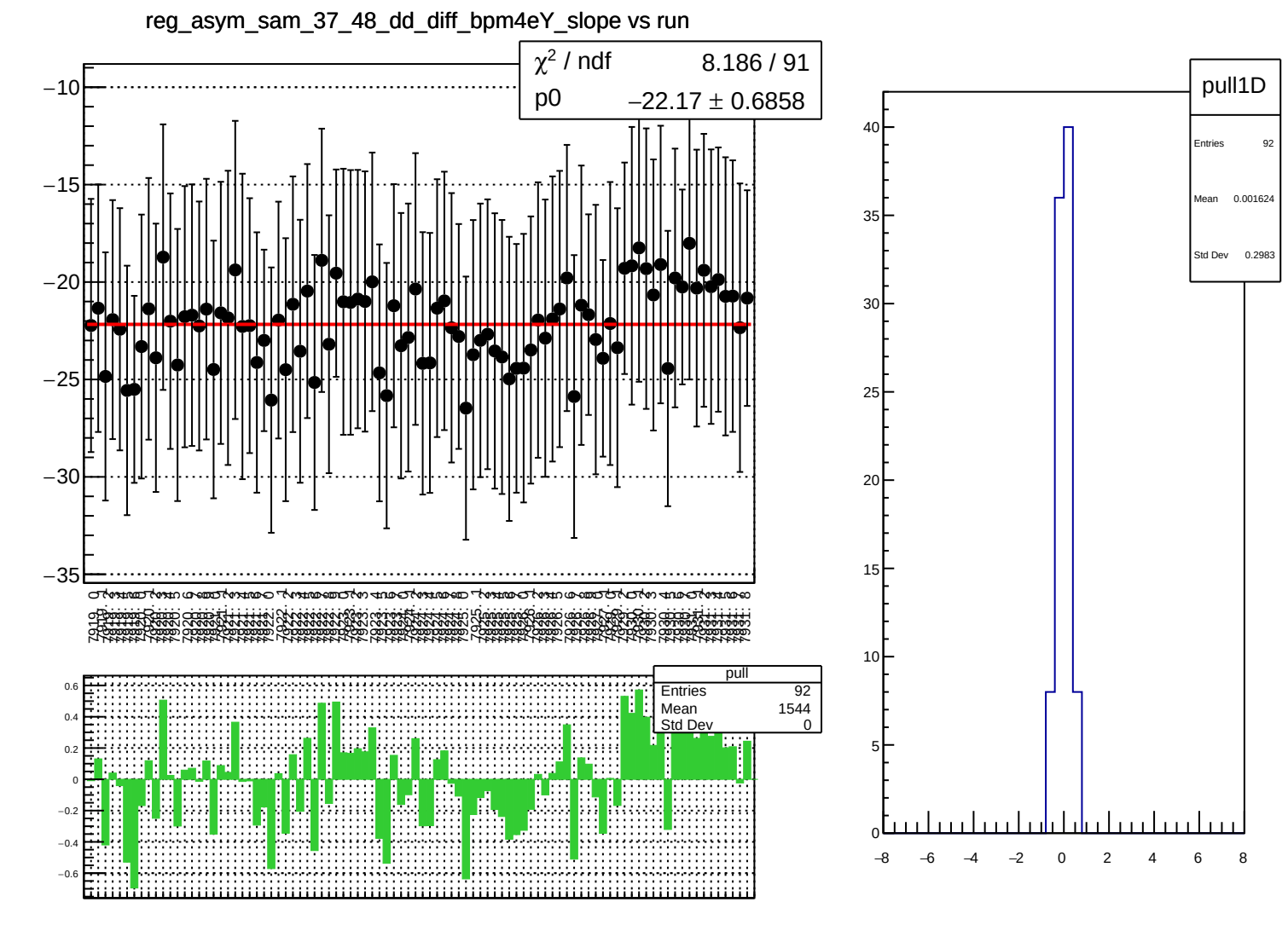

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 5.302 / 91
p0 1.07 ± 0.5788
pull
Entries 92
Mean −124.3
Std Dev 0

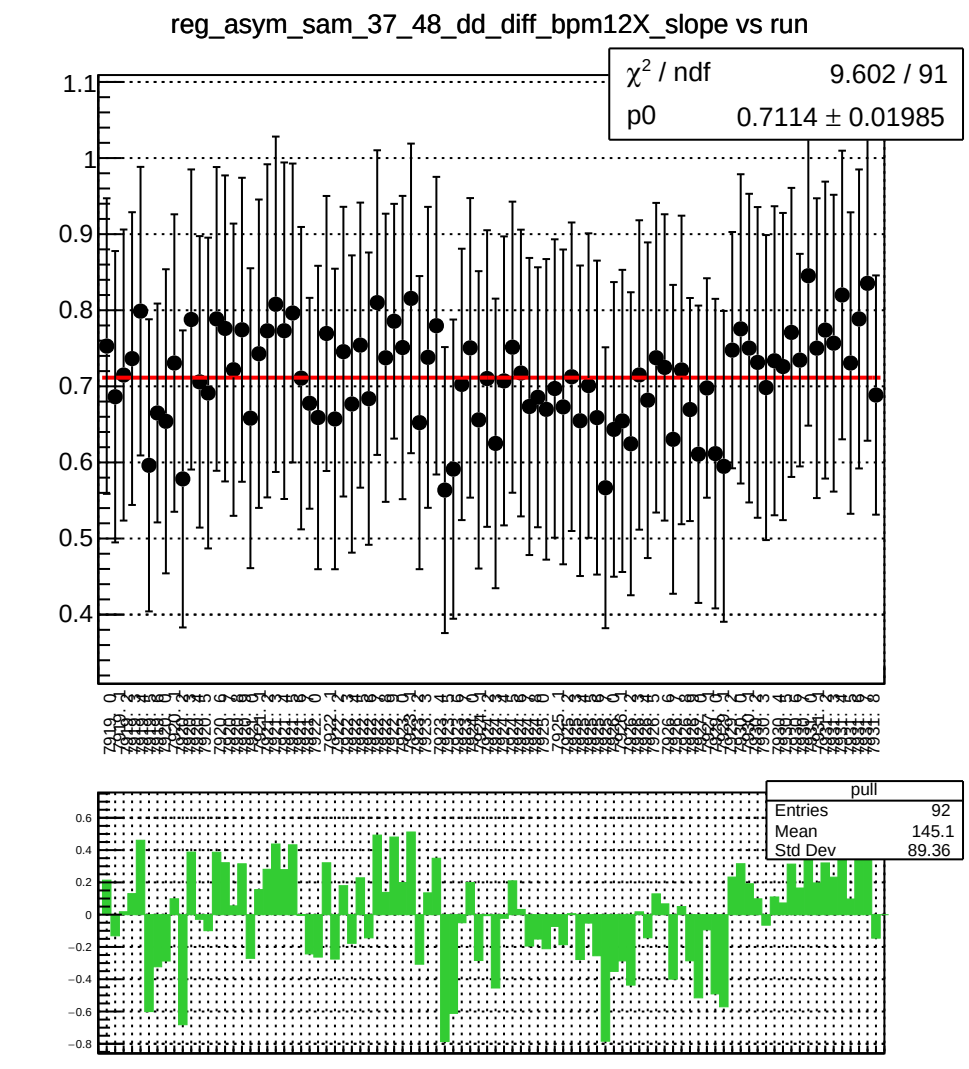

pull1D
Entries 92
Mean 0.003103
Std Dev 0.24

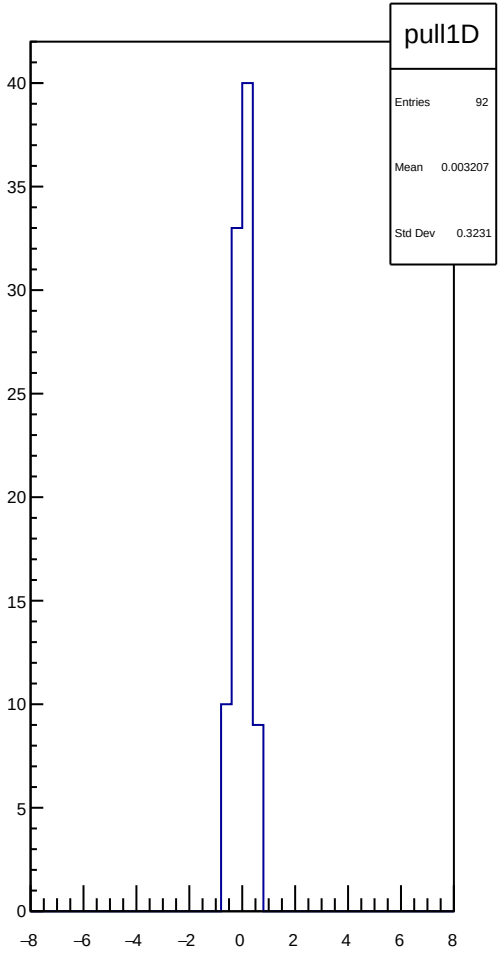

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.617 / 91
p0 −27.52 ± 0.5964
pull
Entries 92
Mean 921.9
Std Dev 0

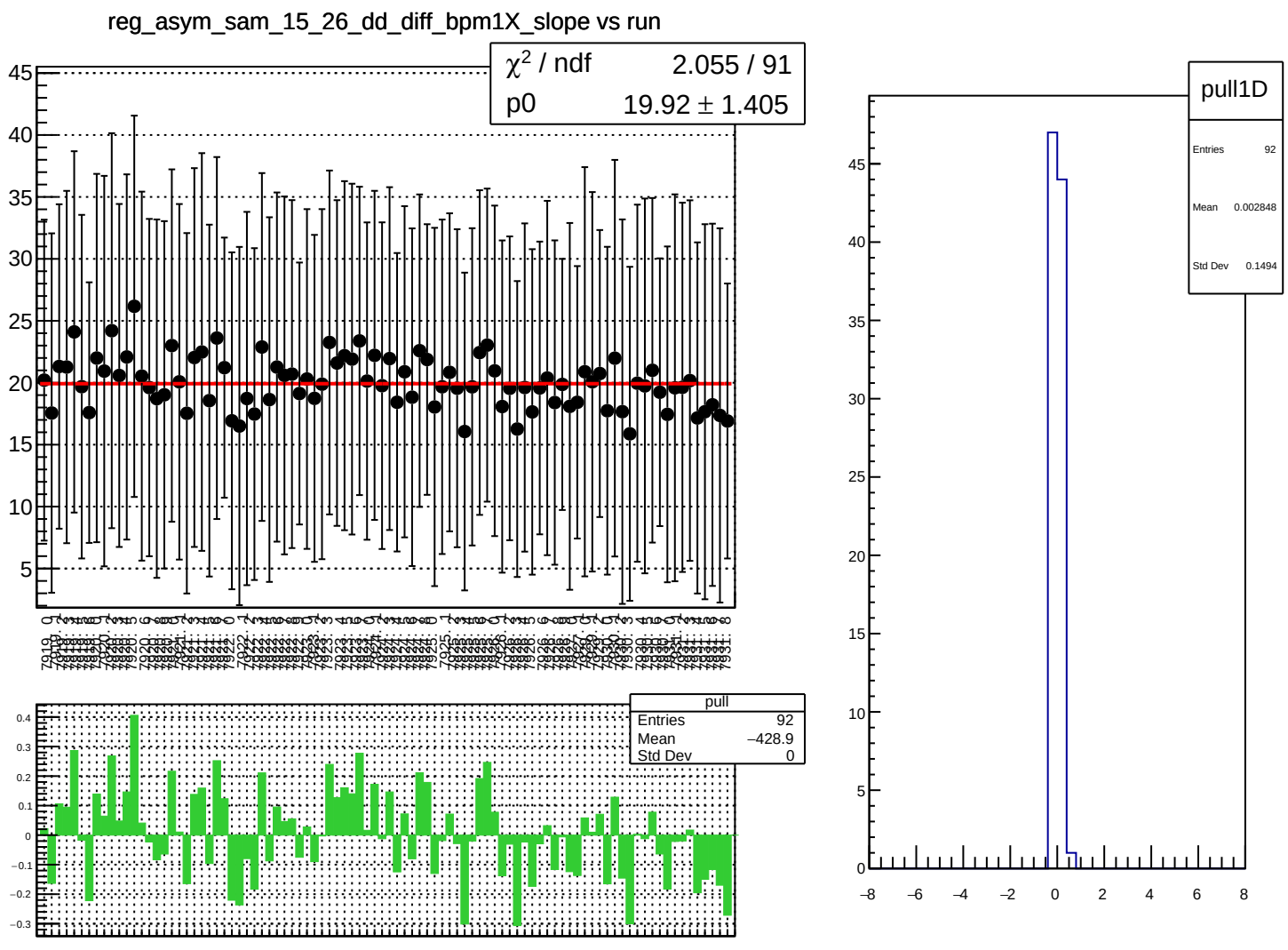

pull1D
Entries 92
Mean −0.00463
Std Dev 0.3233

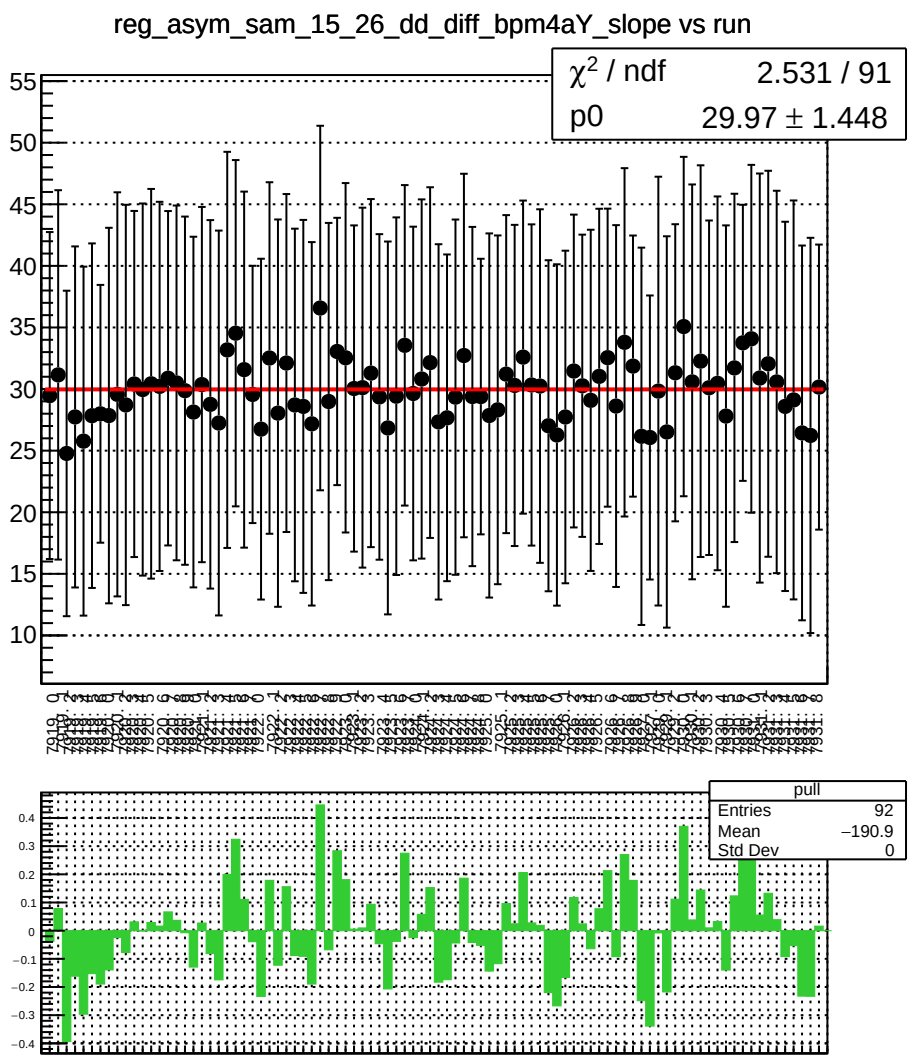

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.996 / 91
p0 11.69 ± 0.5176
pull
Entries 92
Mean −169.3
Std Dev 0
pull1D
Entries 92
Mean −0.003
Std Dev 0.233

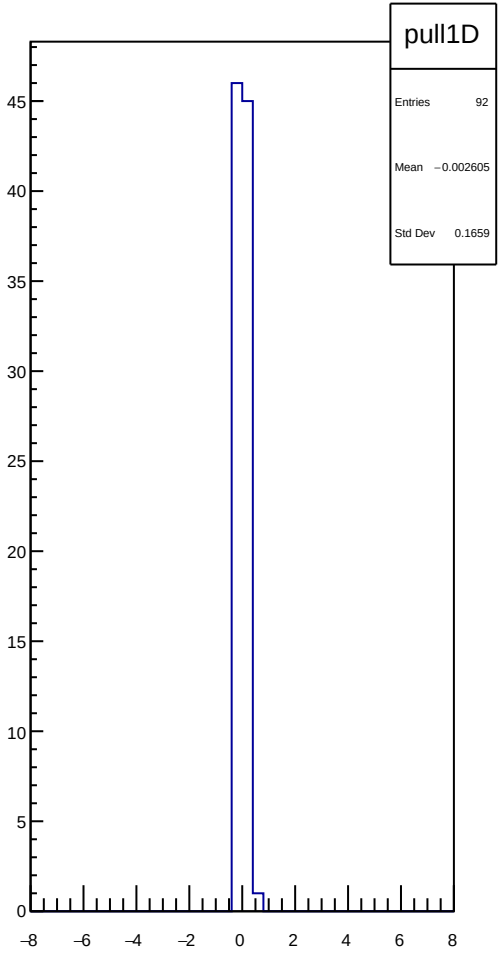

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.186 / 91
p0 −22.17 ± 0.6858
pull
Entries 92
Mean 1544
Std Dev 0
pull1D
Entries 92
Mean 0.001624
Std Dev 0.2983

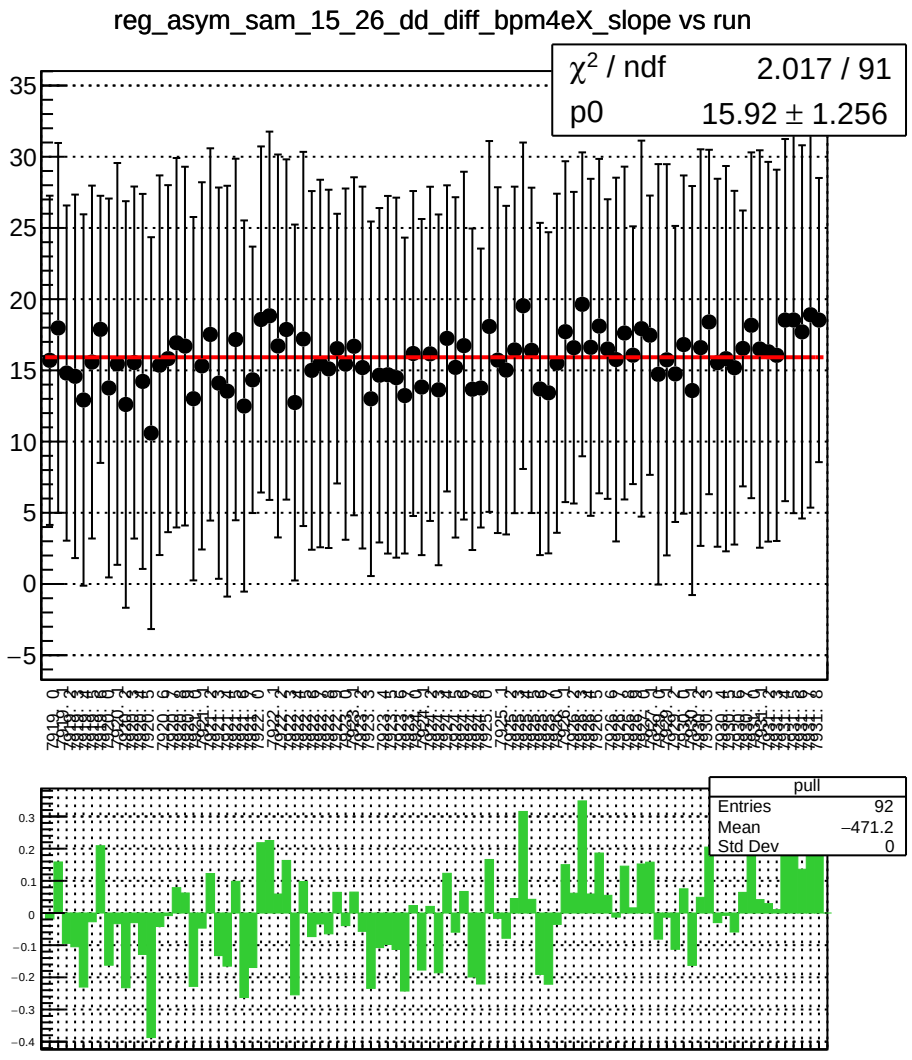

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 9.602 / 91
p0 0.7114 ± 0.01985
pull
Entries 92
Mean 145.1
Std Dev 89.36

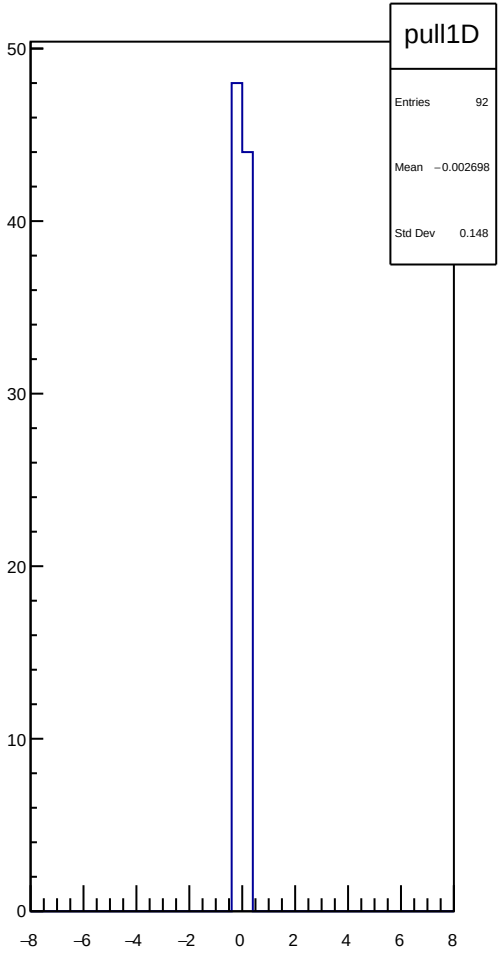

pull1D
Entries 92
Mean 0.003207
Std Dev 0.3231

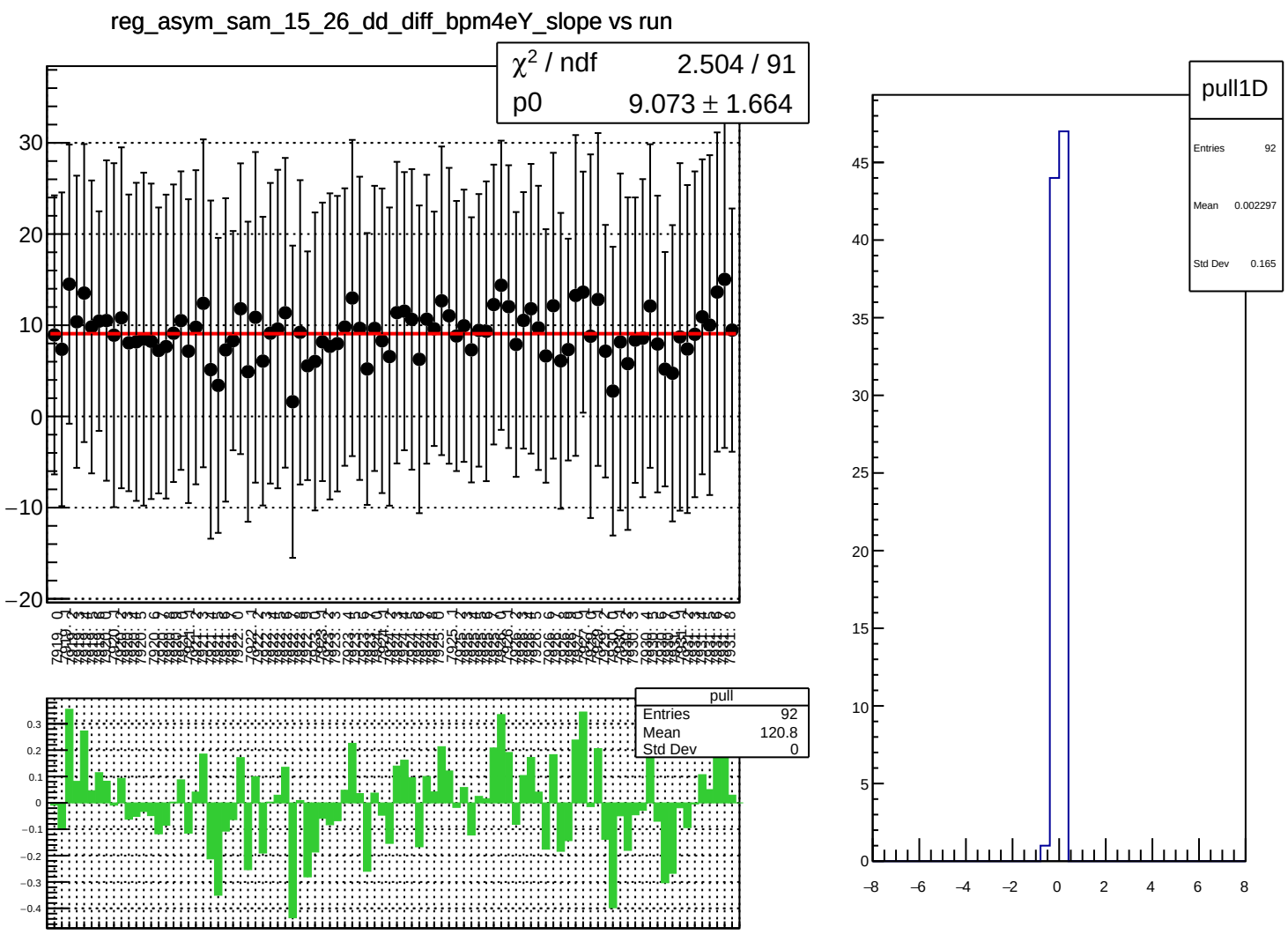

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 2.055 / 91
p0 19.92 ± 1.405
pull
Entries 92
Mean −428.9
Std Dev 0
pull1D
Entries 92
Mean 0.002848
Std Dev 0.1494

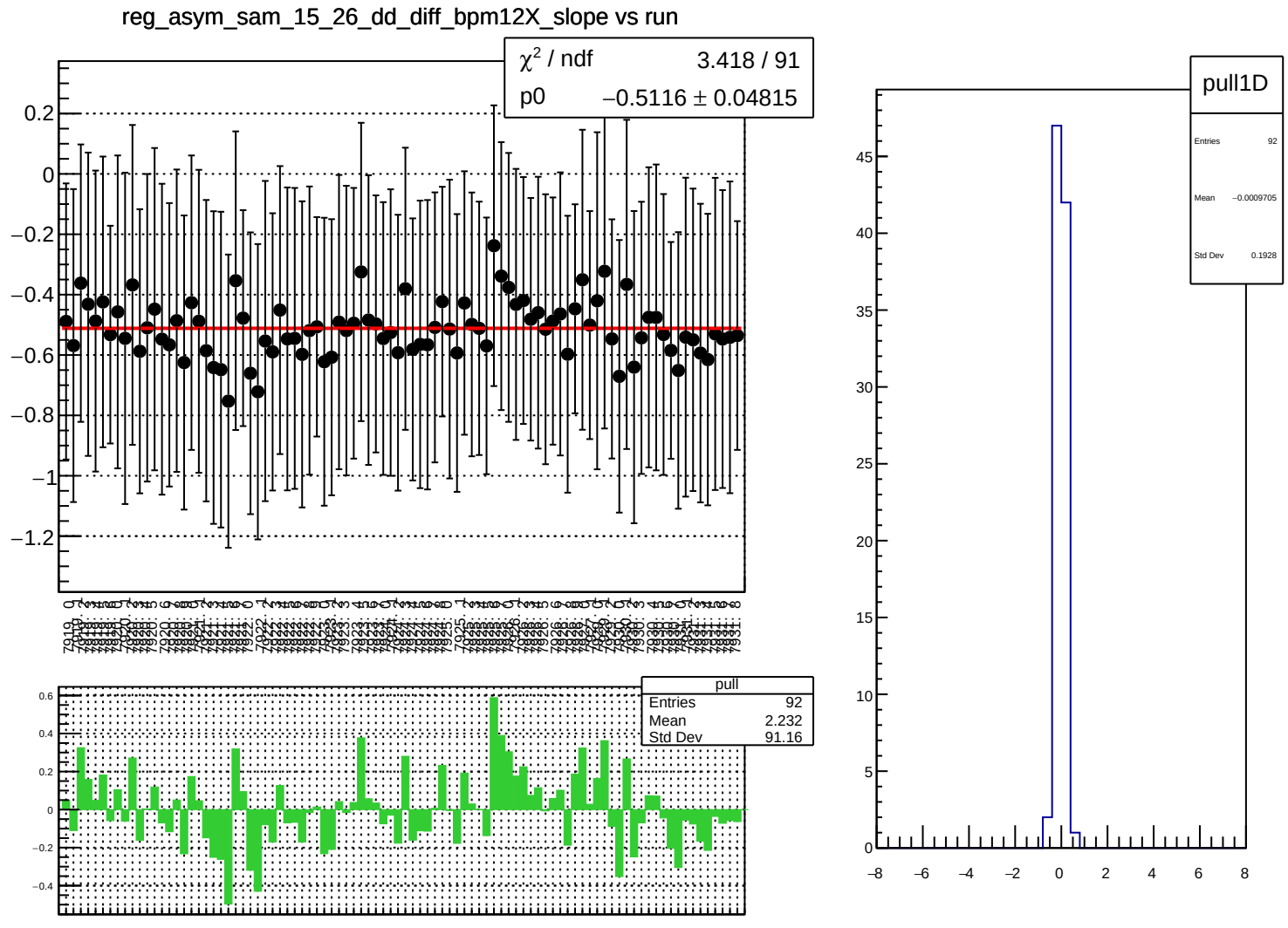

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.531 / 91
p0 29.97 ± 1.448
pull
Entries 92
Mean −190.9
Std Dev 0

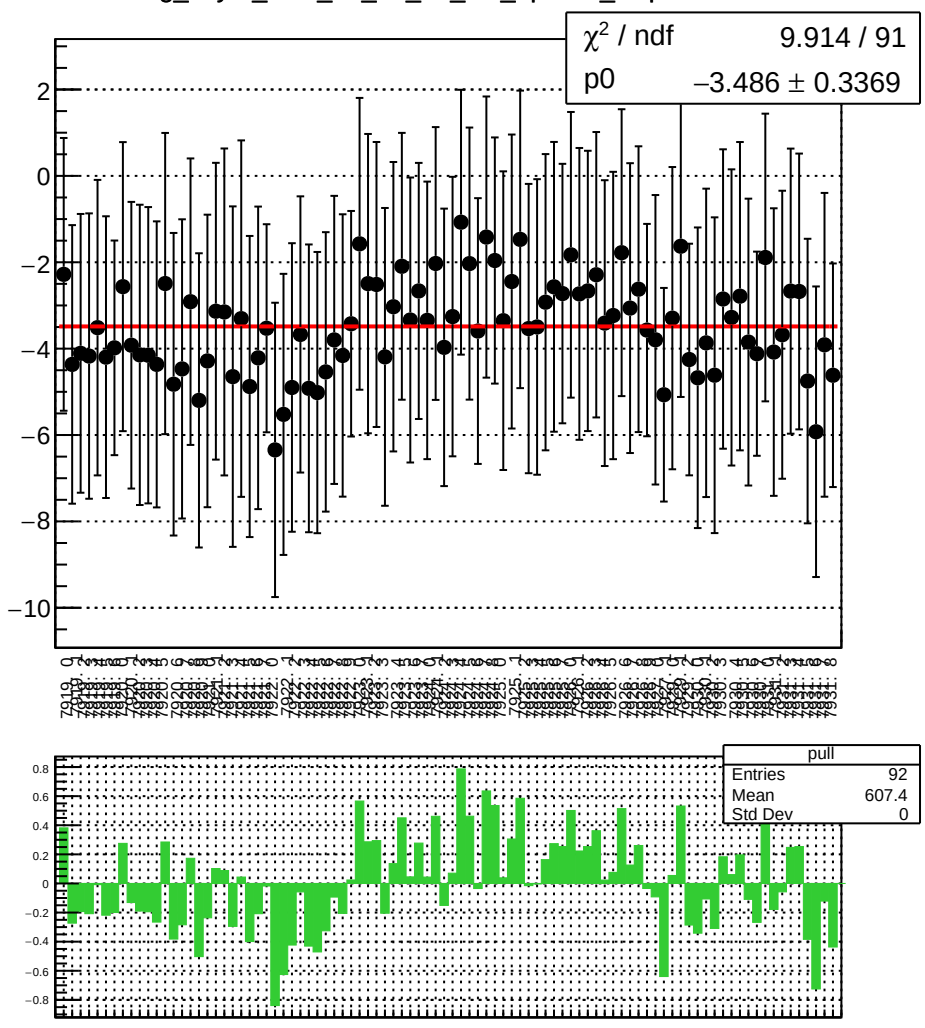

pull1D
Entries 92
Mean −0.002605
Std Dev 0.1659

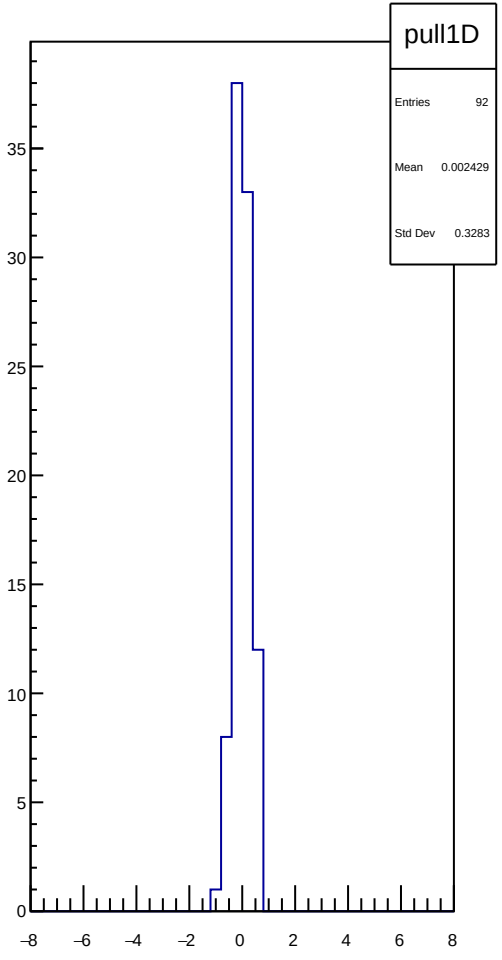

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.017 / 91
p0 15.92 ± 1.256
pull
Entries 92
Mean −471.2
Std Dev 0

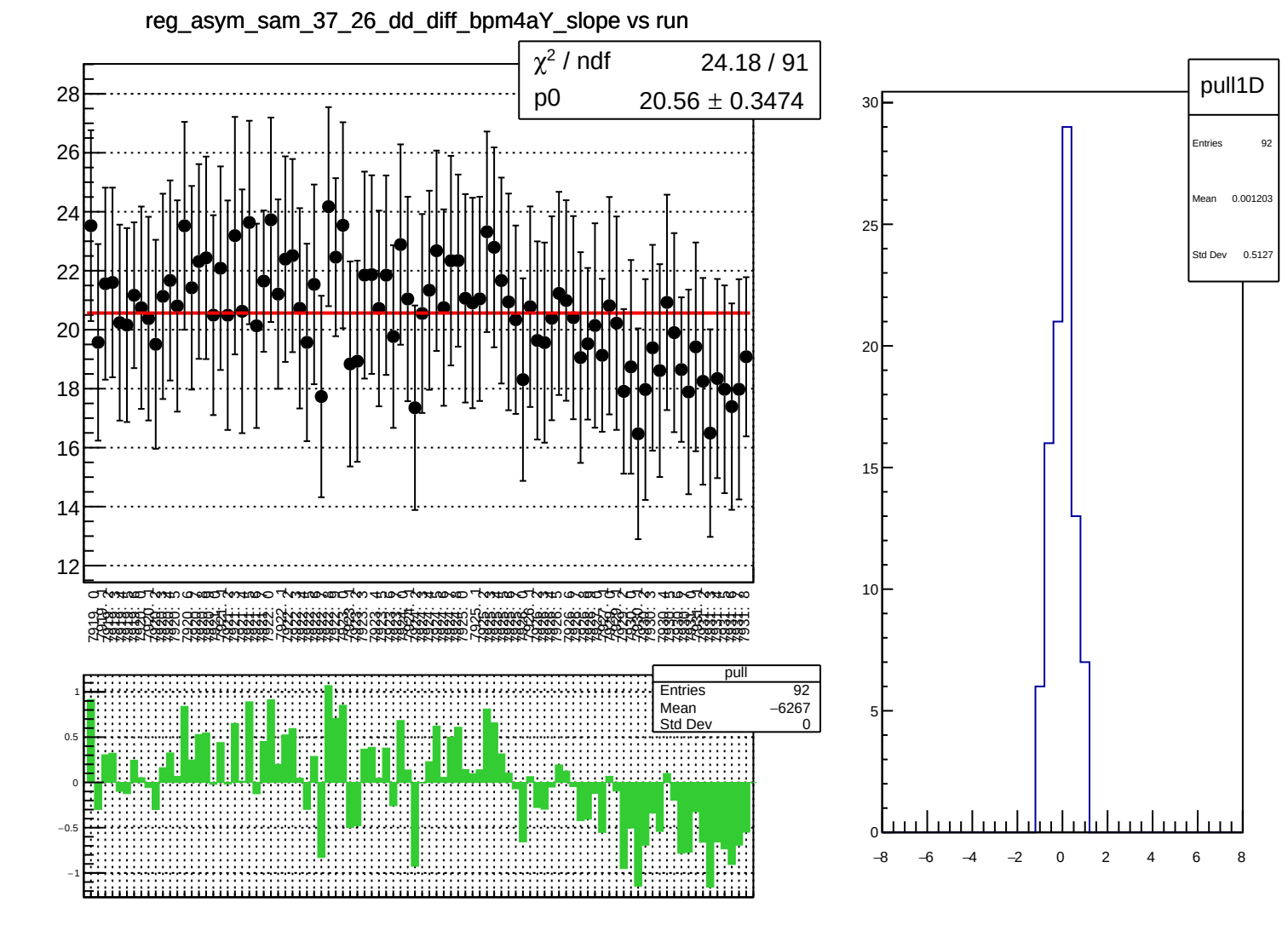

pull1D
Entries 92
Mean −0.002698
Std Dev 0.148

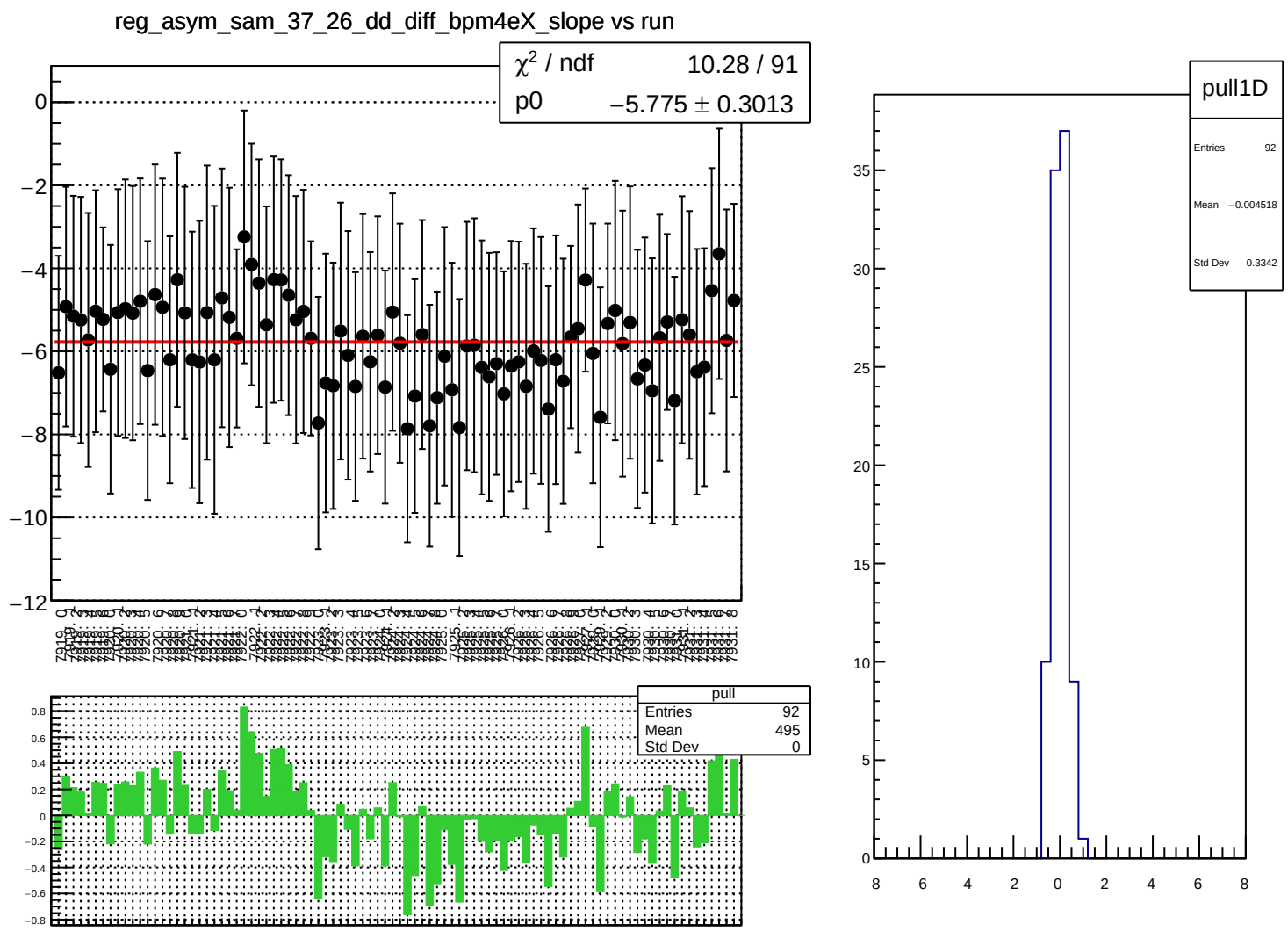

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.504 / 91
p0 9.073 ± 1.664
pull
Entries 92
Mean 120.8
Std Dev 0
pull1D
Entries 92
Mean 0.002297
Std Dev 0.165

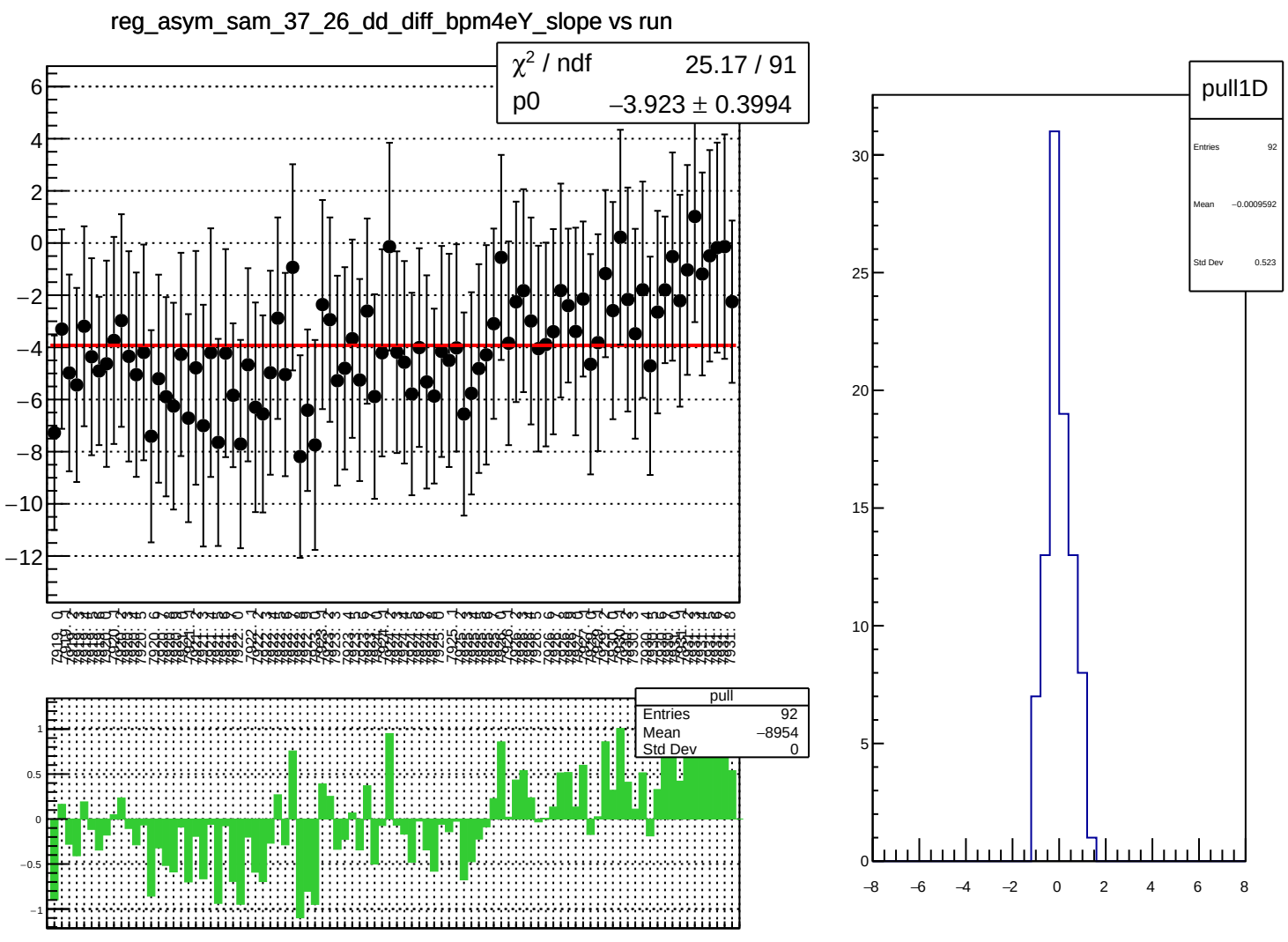

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 3.418 / 91
p0 −0.5116 ± 0.04815
pull
Entries 92
Mean 2.232
Std Dev 91.16
pull1D
Entries 92
Mean −0.0009705
Std Dev 0.1928

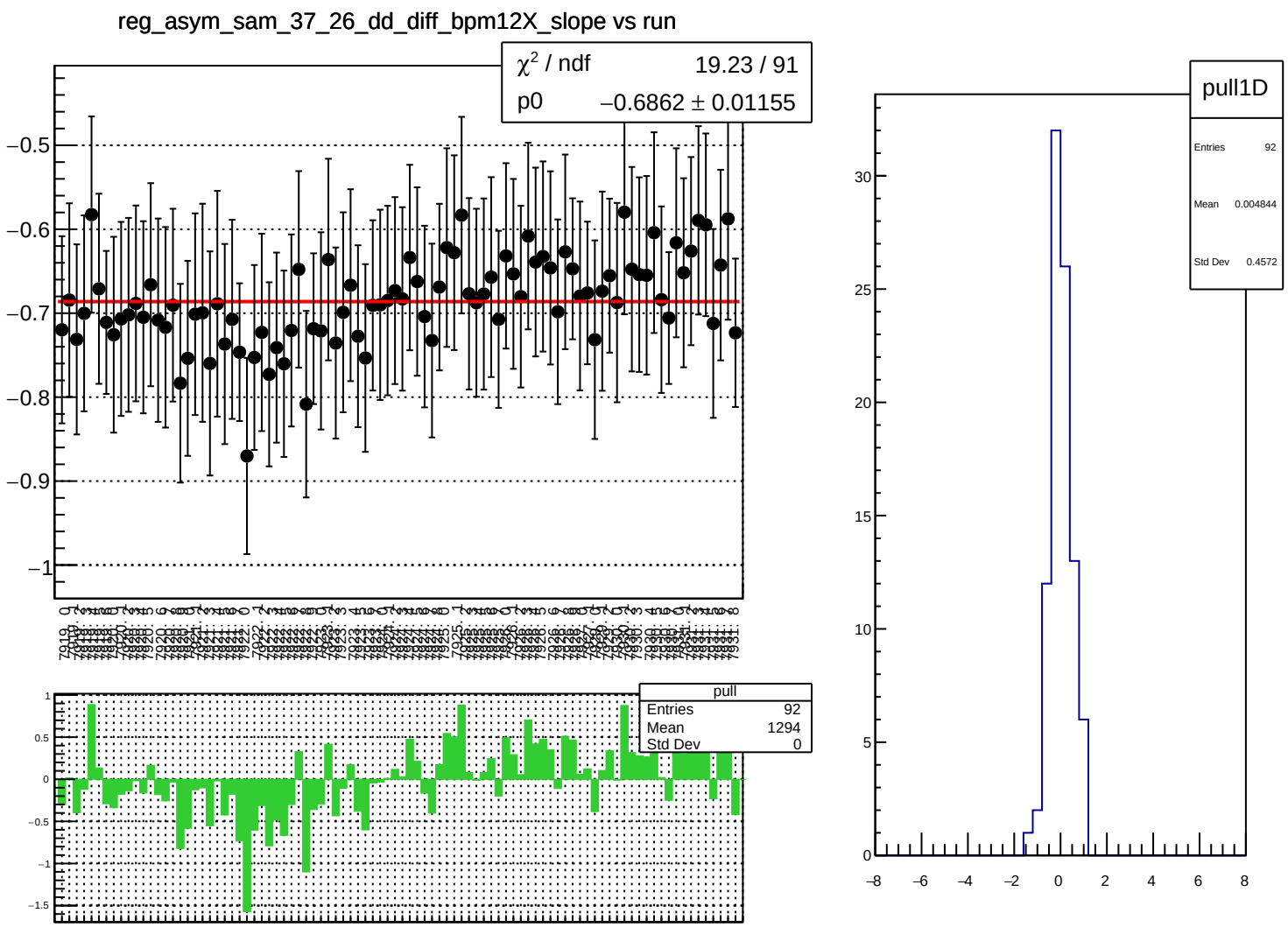

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 9.914 / 91
p0 −3.486 ± 0.3369
pull
Entries 92
Mean 607.4
Std Dev 0

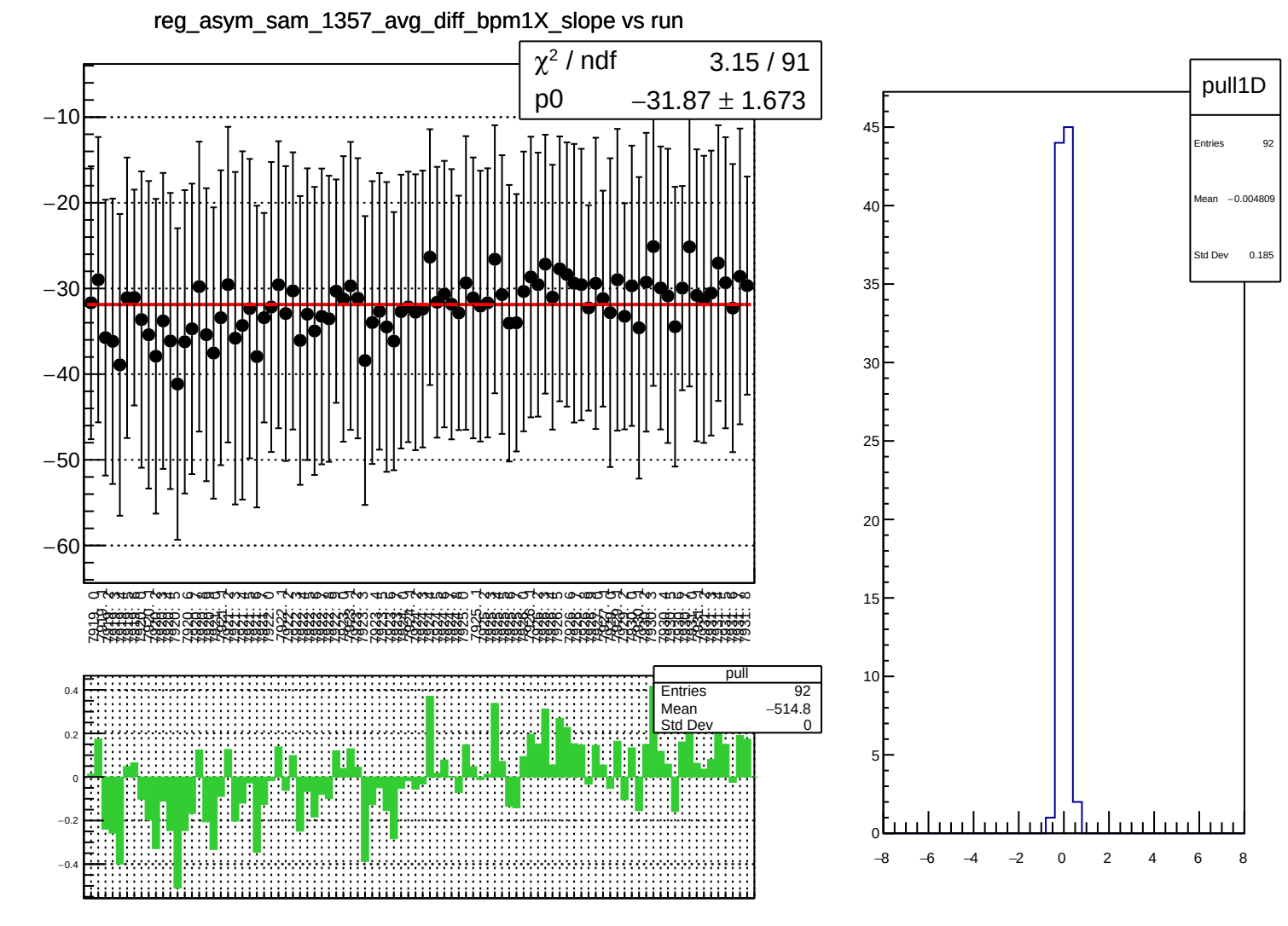

pull1D
Entries 92
Mean 0.002429
Std Dev 0.3283

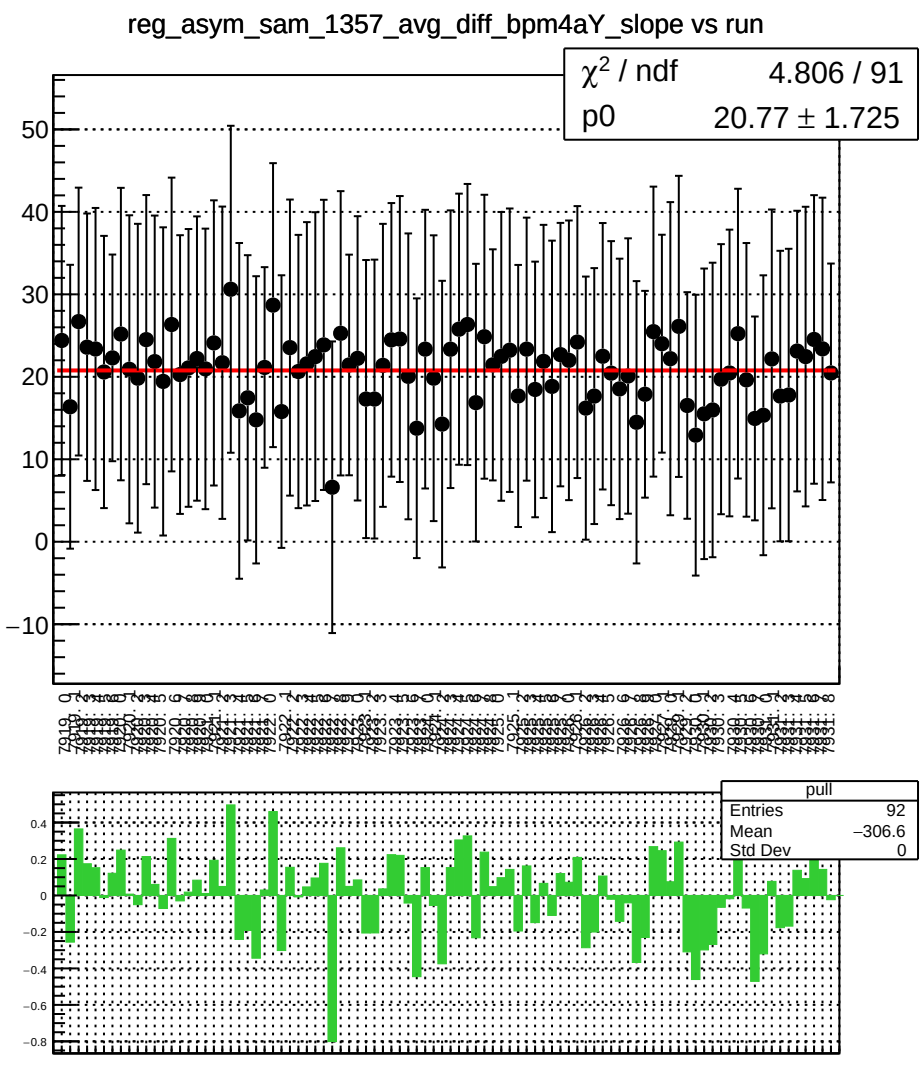

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 24.18 / 91
p0 20.56 ± 0.3474
pull
Entries 92
Mean −6267
Std Dev 0
pull1D
Entries 92
Mean 0.001203
Std Dev 0.5127

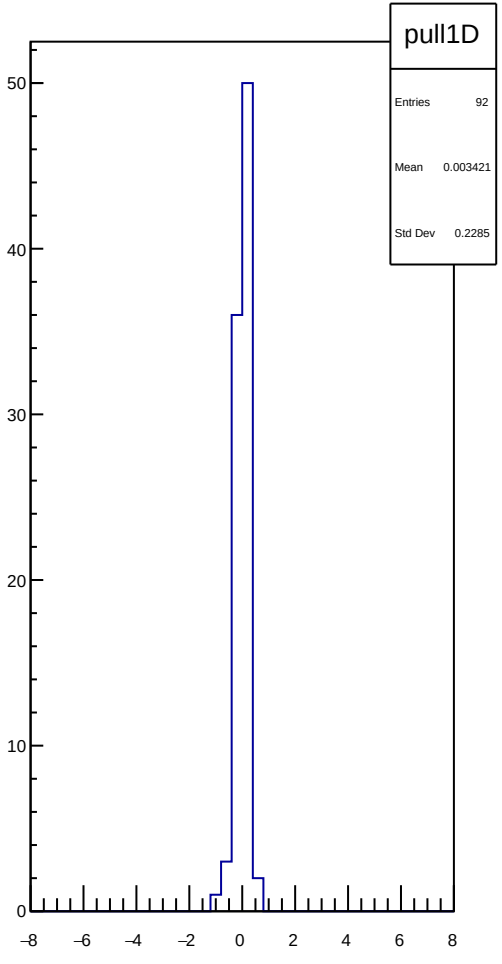

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 10.28 / 91
p0 −5.775 ± 0.3013
pull
Entries 92
Mean 495
Std Dev 0
pull1D
Entries 92
Mean −0.004518
Std Dev 0.3342

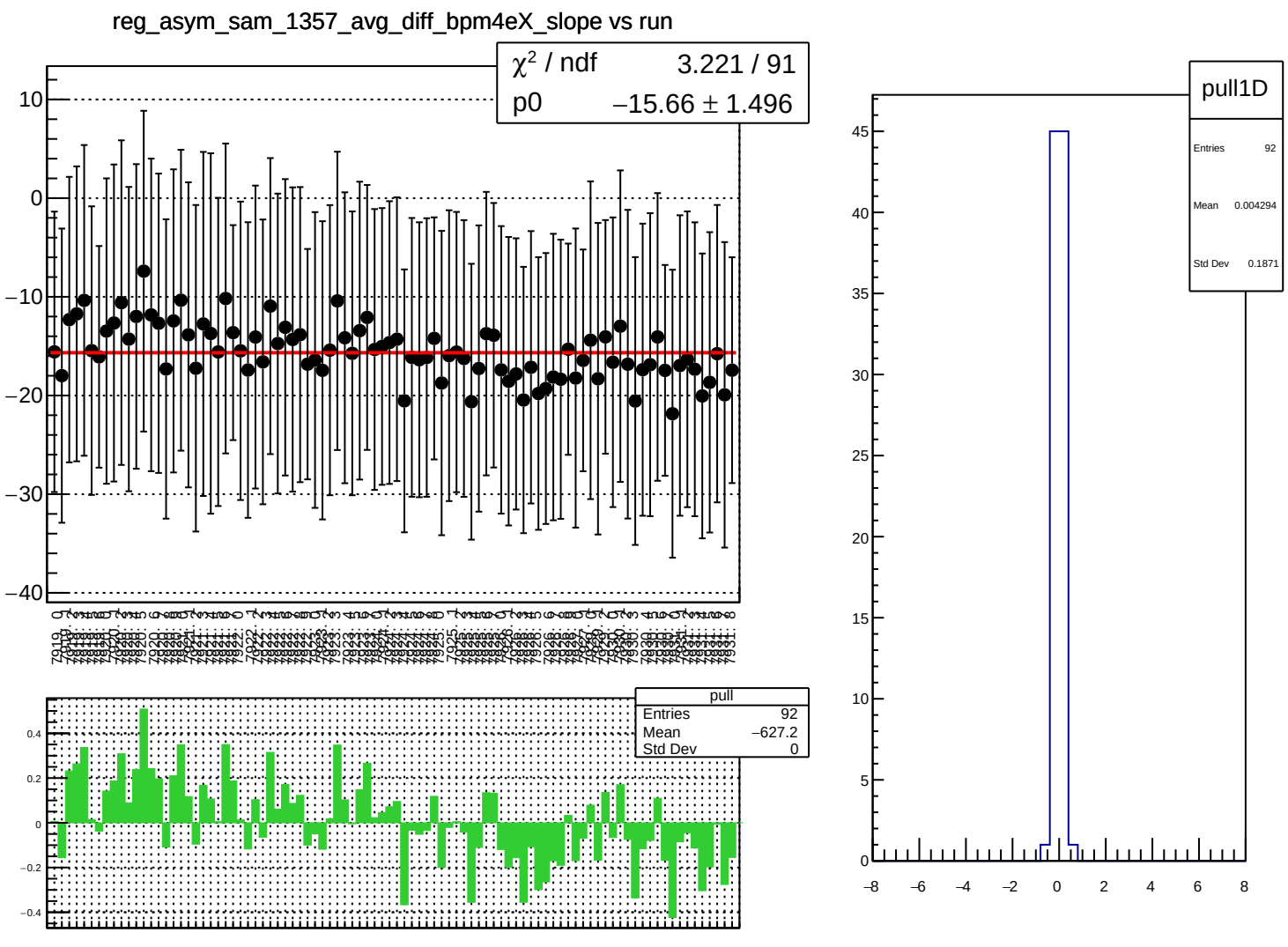

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 25.17 / 91
p0 −3.923 ± 0.3994
pull
Entries 92
Mean −8954
Std Dev 0
pull1D
Entries 92
Mean −0.0009592
Std Dev 0.523

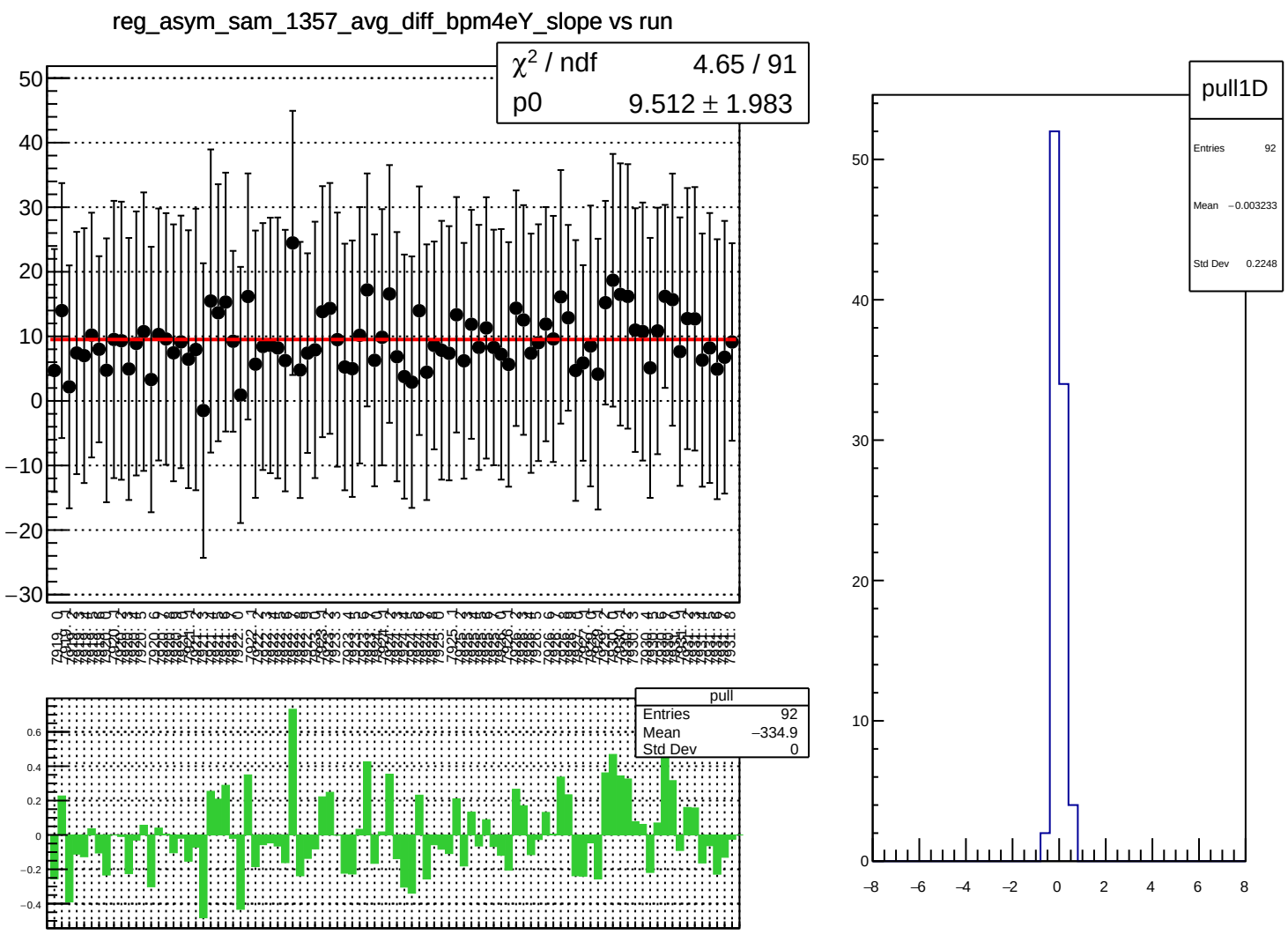

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 19.23 / 91
p0 −0.6862 ± 0.01155
pull
Entries 92
Mean 1294
Std Dev 0
pull1D
Entries 92
Mean 0.004844
Std Dev 0.4572

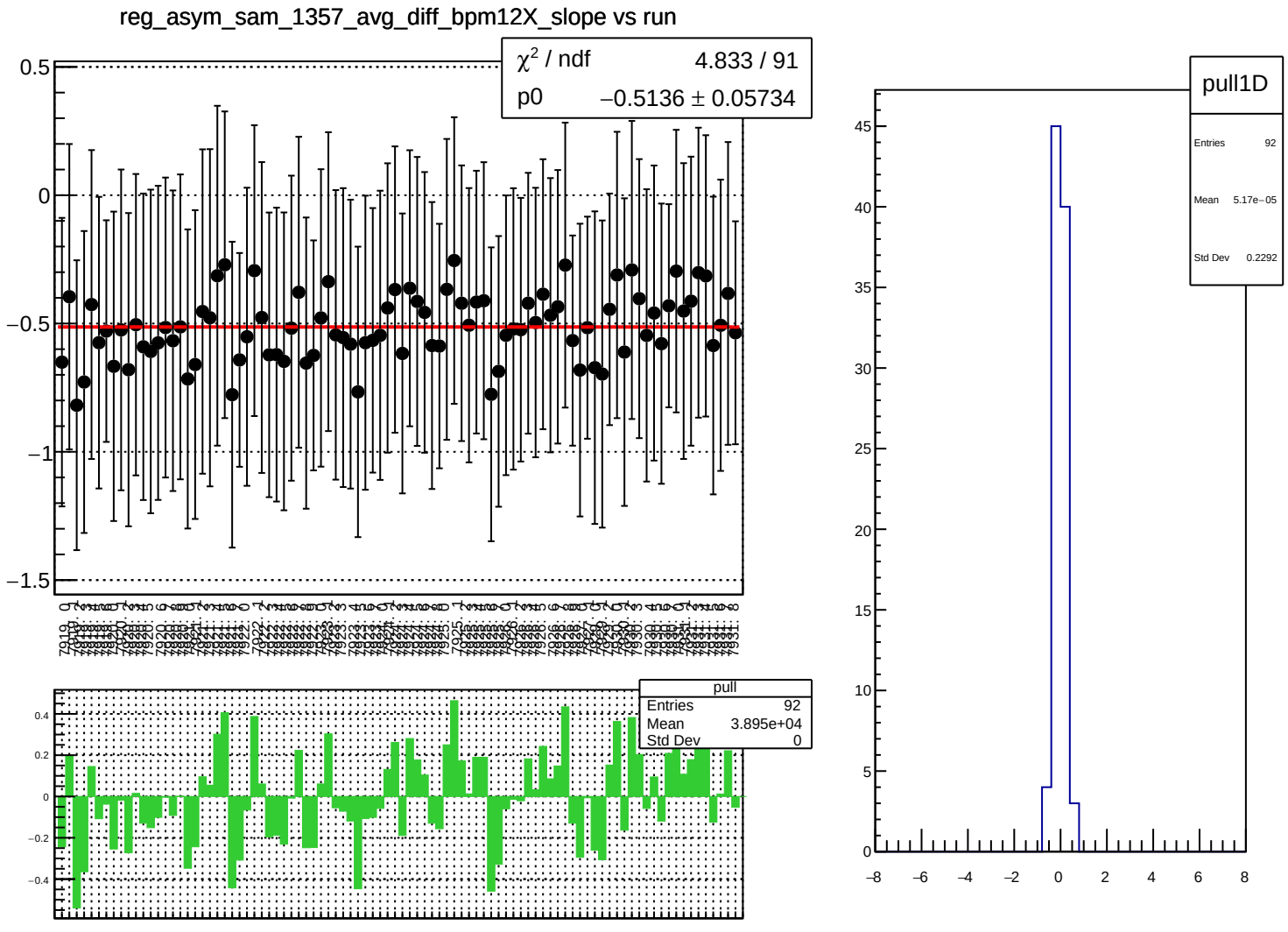

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 3.15 / 91
p0 −31.87 ± 1.673
pull
Entries 92
Mean −514.8
Std Dev 0
pull1D
Entries 92
Mean −0.004809
Std Dev 0.185

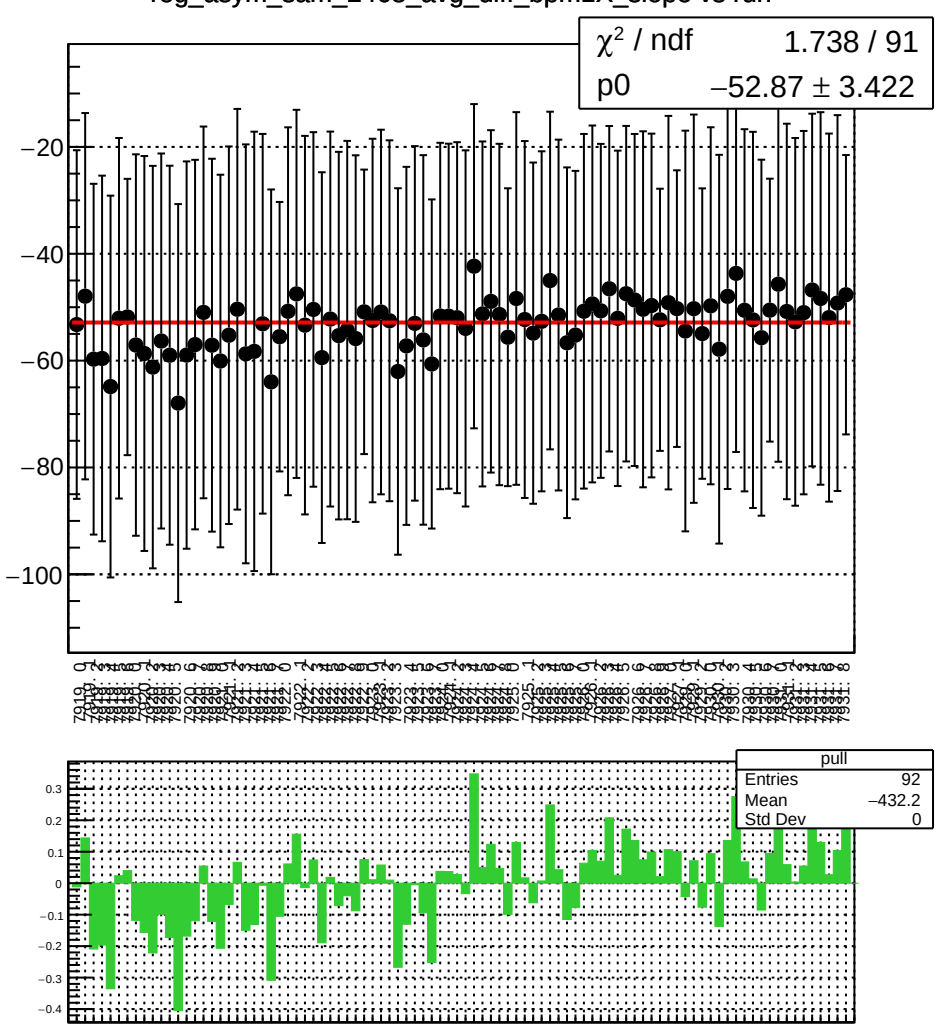

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.806 / 91
p0 20.77 ± 1.725
pull
Entries 92
Mean −306.6
Std Dev 0

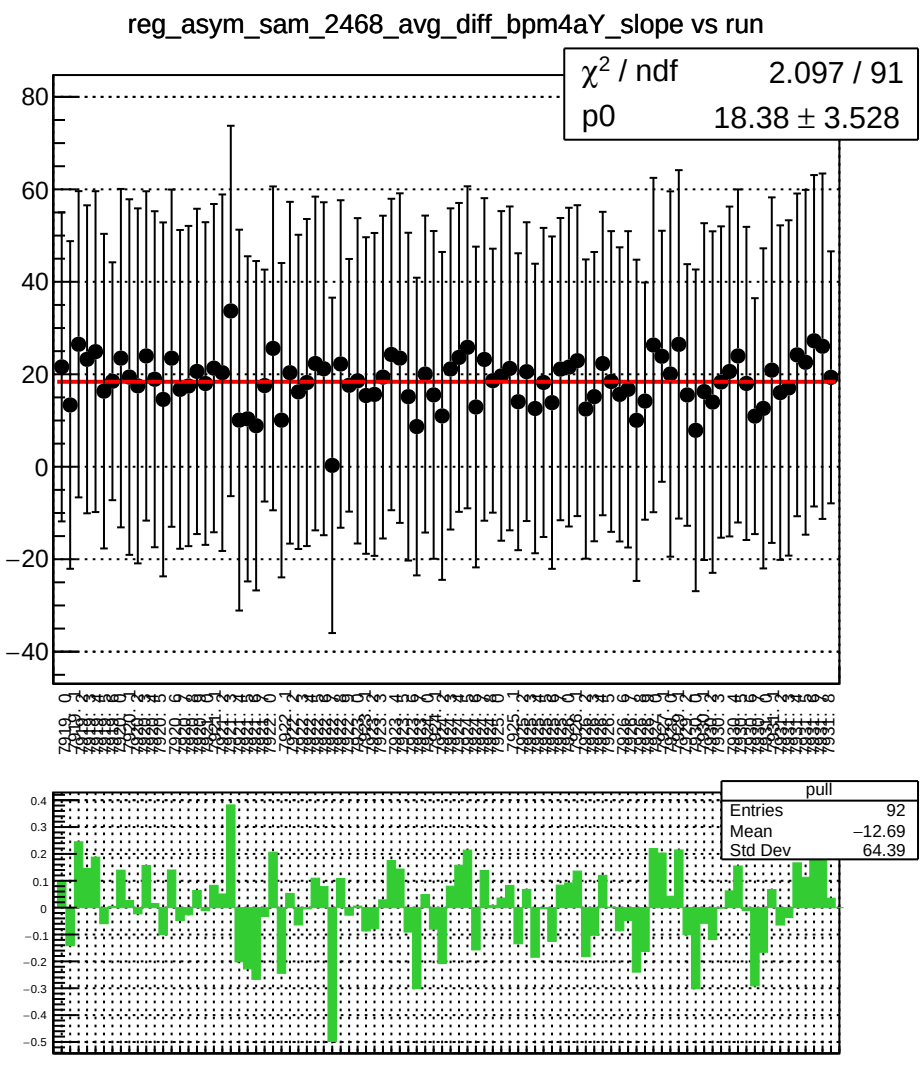

pull1D
Entries 92
Mean 0.003421
Std Dev 0.2285

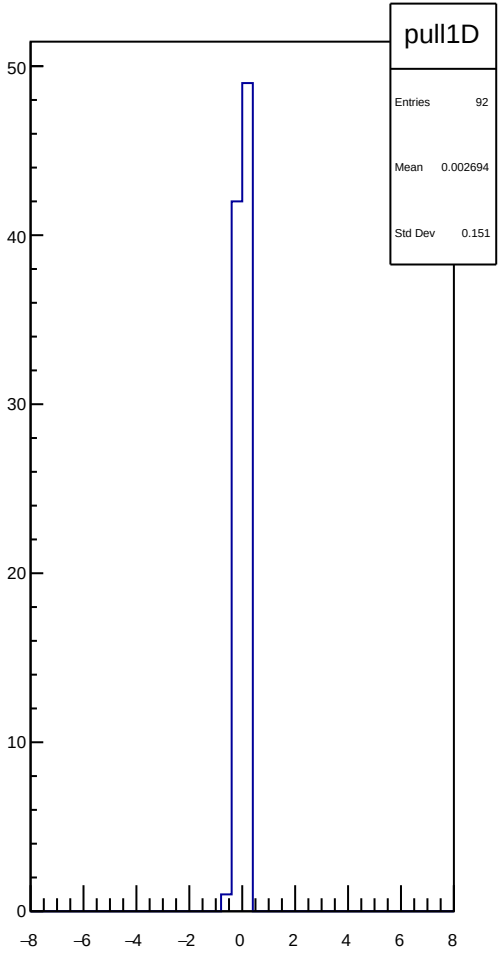

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.221 / 91
p0 −15.66 ± 1.496
pull
Entries 92
Mean −627.2
Std Dev 0
pull1D
Entries 92
Mean 0.004294
Std Dev 0.1871

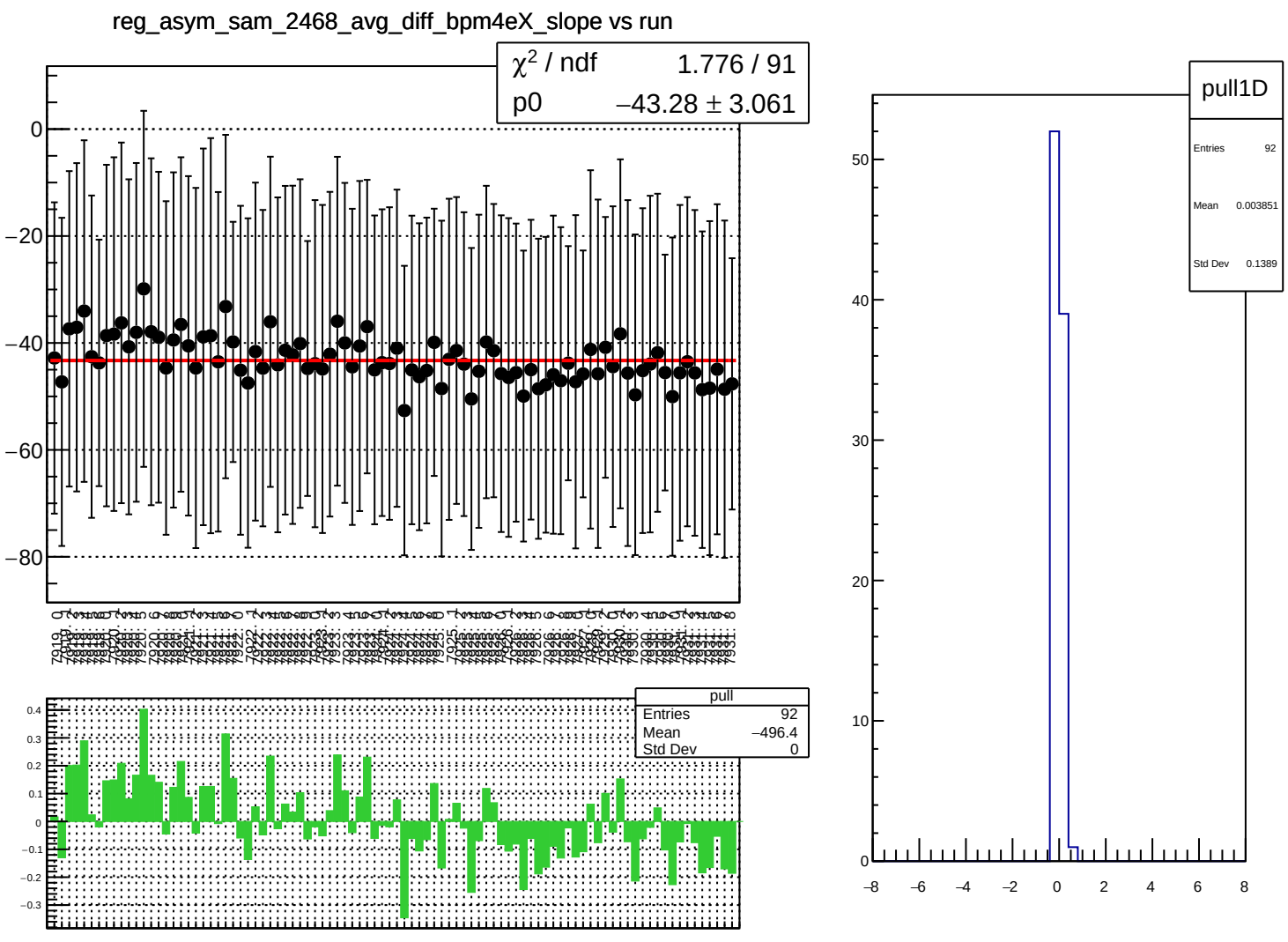

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.65 / 91
p0 9.512 ± 1.983
pull
Entries 92
Mean −334.9
Std Dev 0
pull1D
Entries 92
Mean −0.003233
Std Dev 0.2248

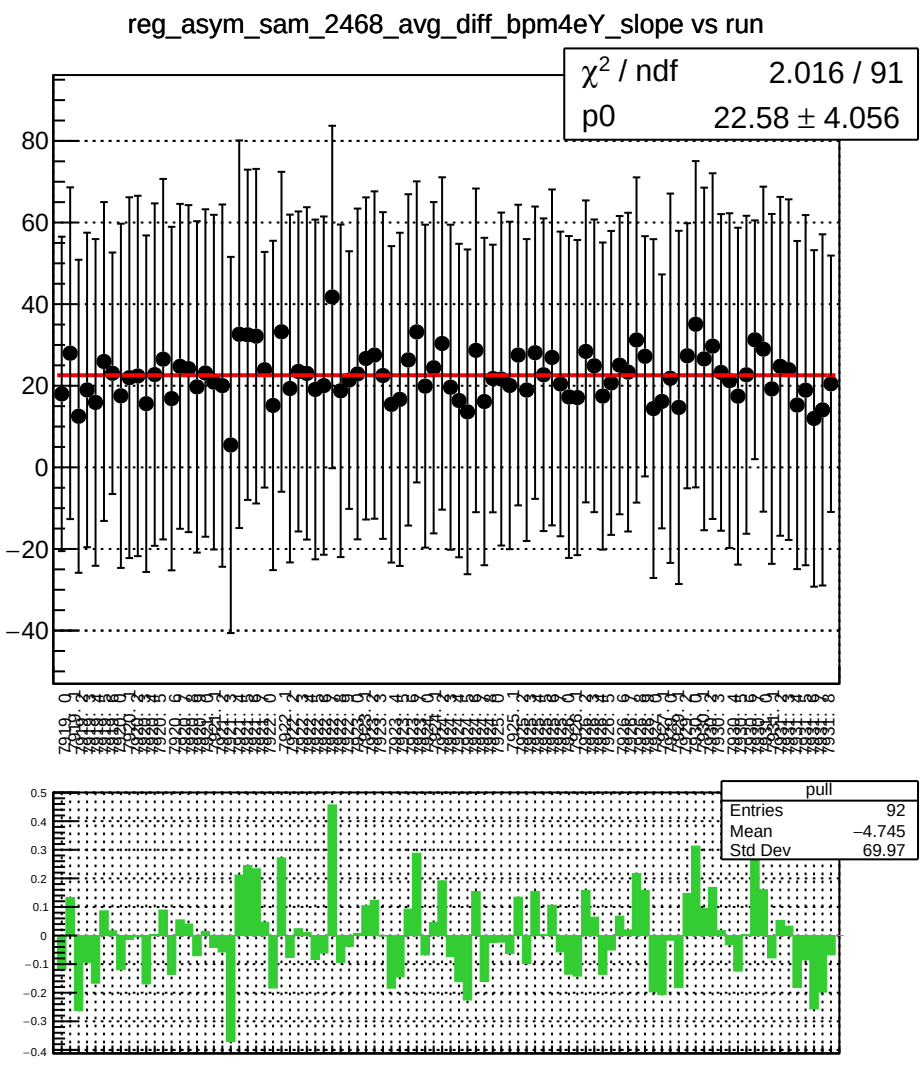

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 4.833 / 91
p0 −0.5136 ± 0.05734
pull
Entries 92
Mean 3.895e+04
Std Dev 0
pull1D
Entries 92
Mean 5.17e−05
Std Dev 0.2292

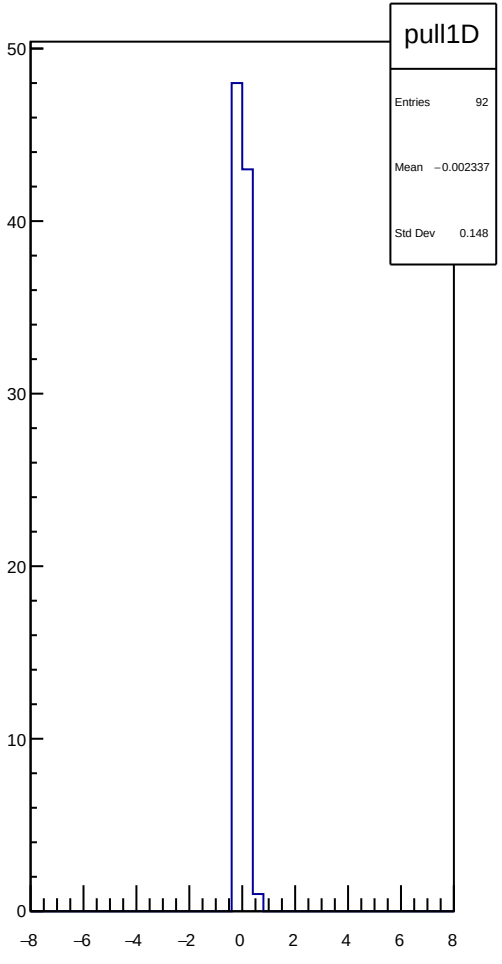

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 1.738 / 91
p0 −52.87 ± 3.422
pull
Entries 92
Mean −432.2
Std Dev 0
pull1D
Entries 92
Mean −0.004095
Std Dev 0.1374

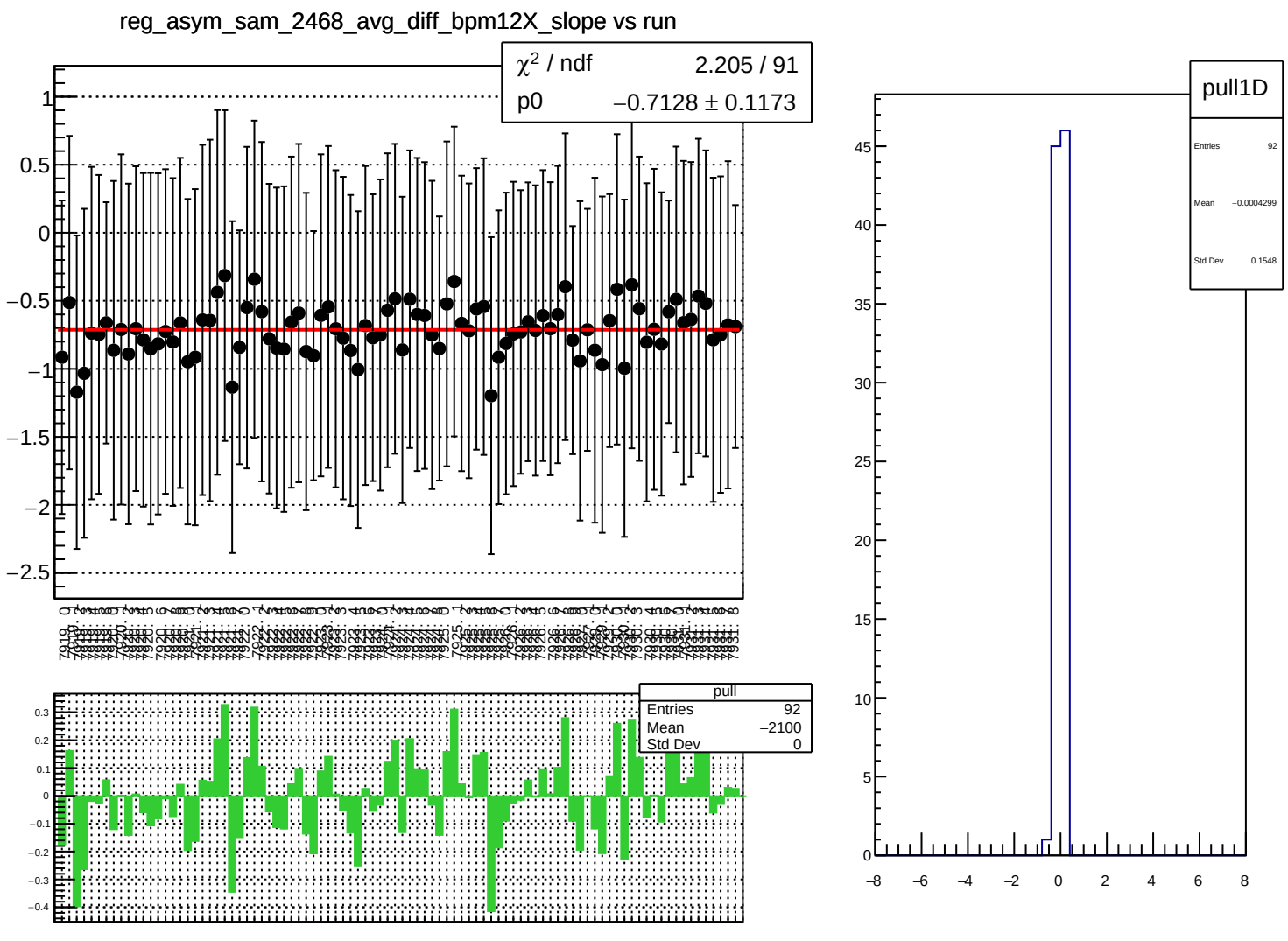

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.097 / 91
p0 18.38 ± 3.528
pull
Entries 92
Mean −12.69
Std Dev 64.39

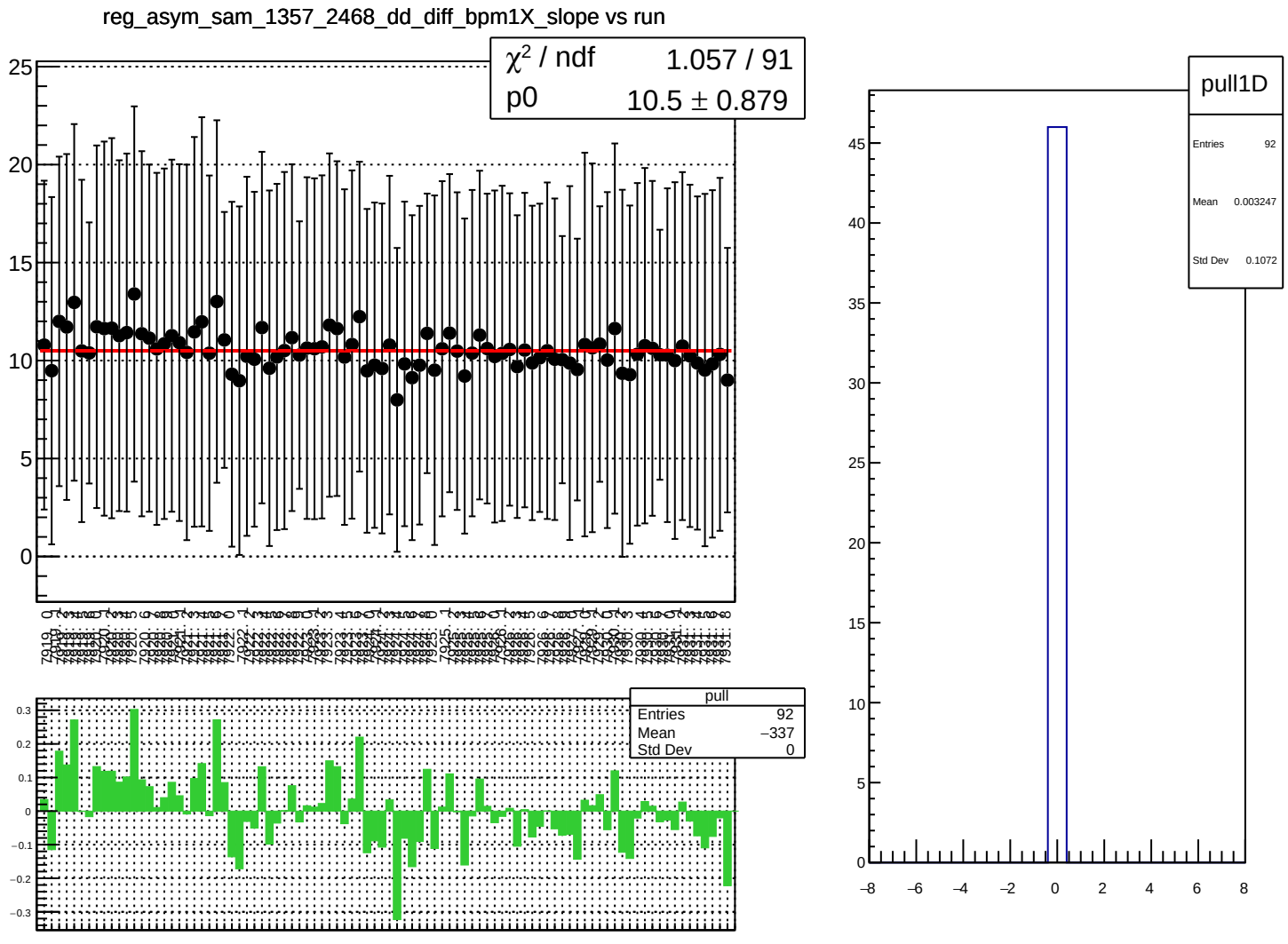

pull1D
Entries 92
Mean 0.002694
Std Dev 0.151

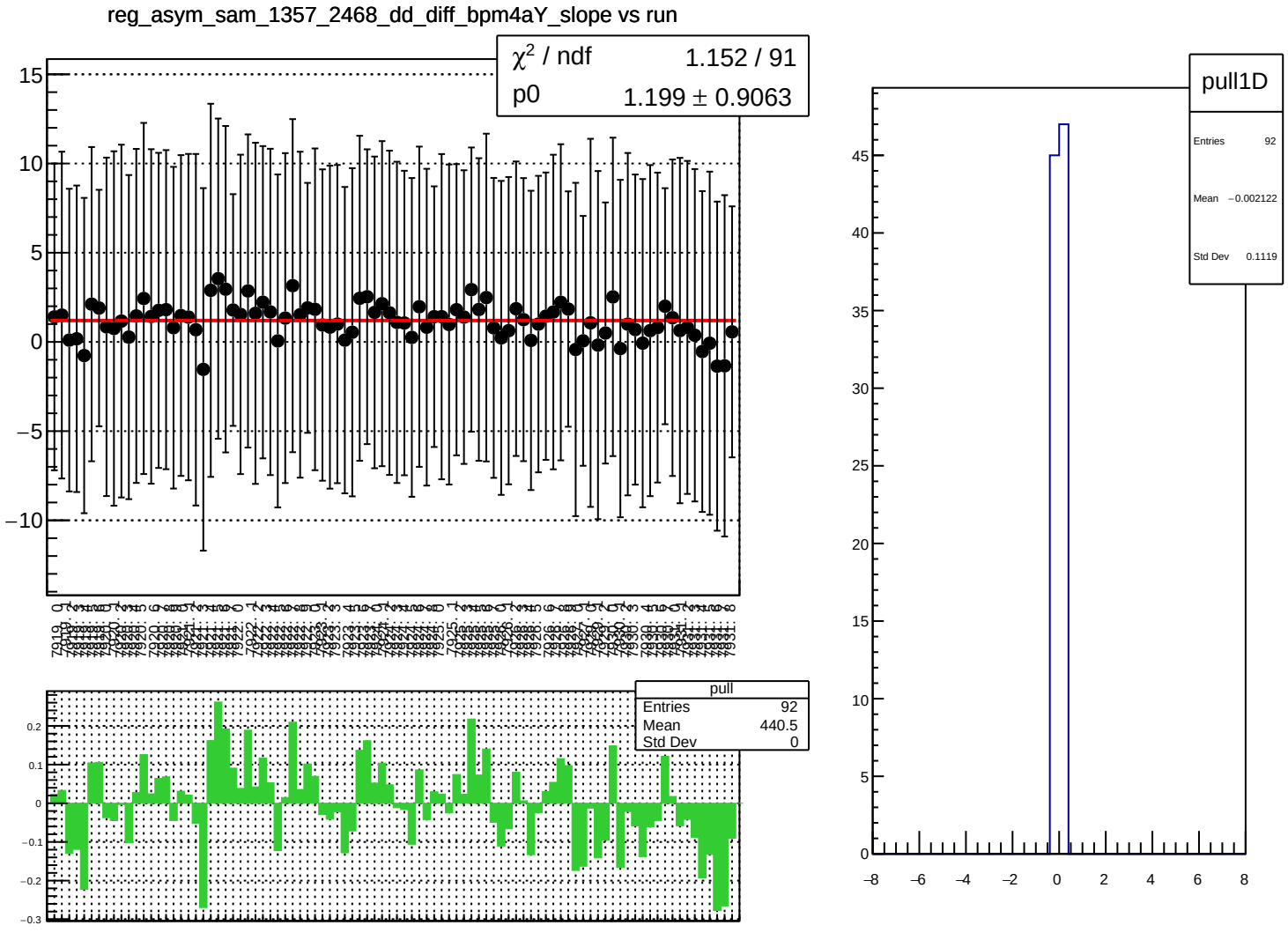

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.776 / 91
p0 −43.28 ± 3.061
pull
Entries 92
Mean −496.4
Std Dev 0
pull1D
Entries 92
Mean 0.003851
Std Dev 0.1389

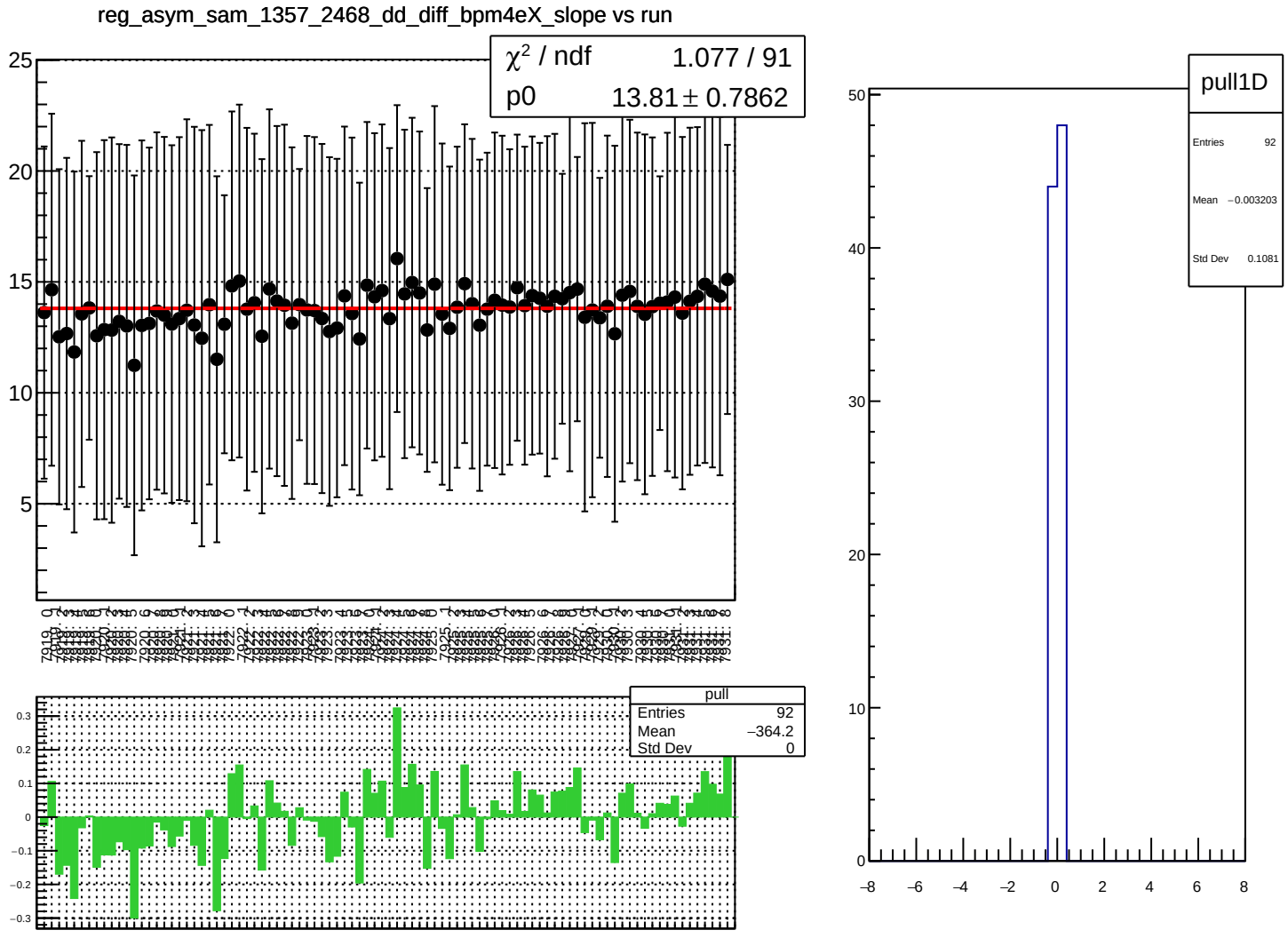

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.016 / 91
p0 22.58 ± 4.056
pull
Entries 92
Mean −4.745
Std Dev 69.97

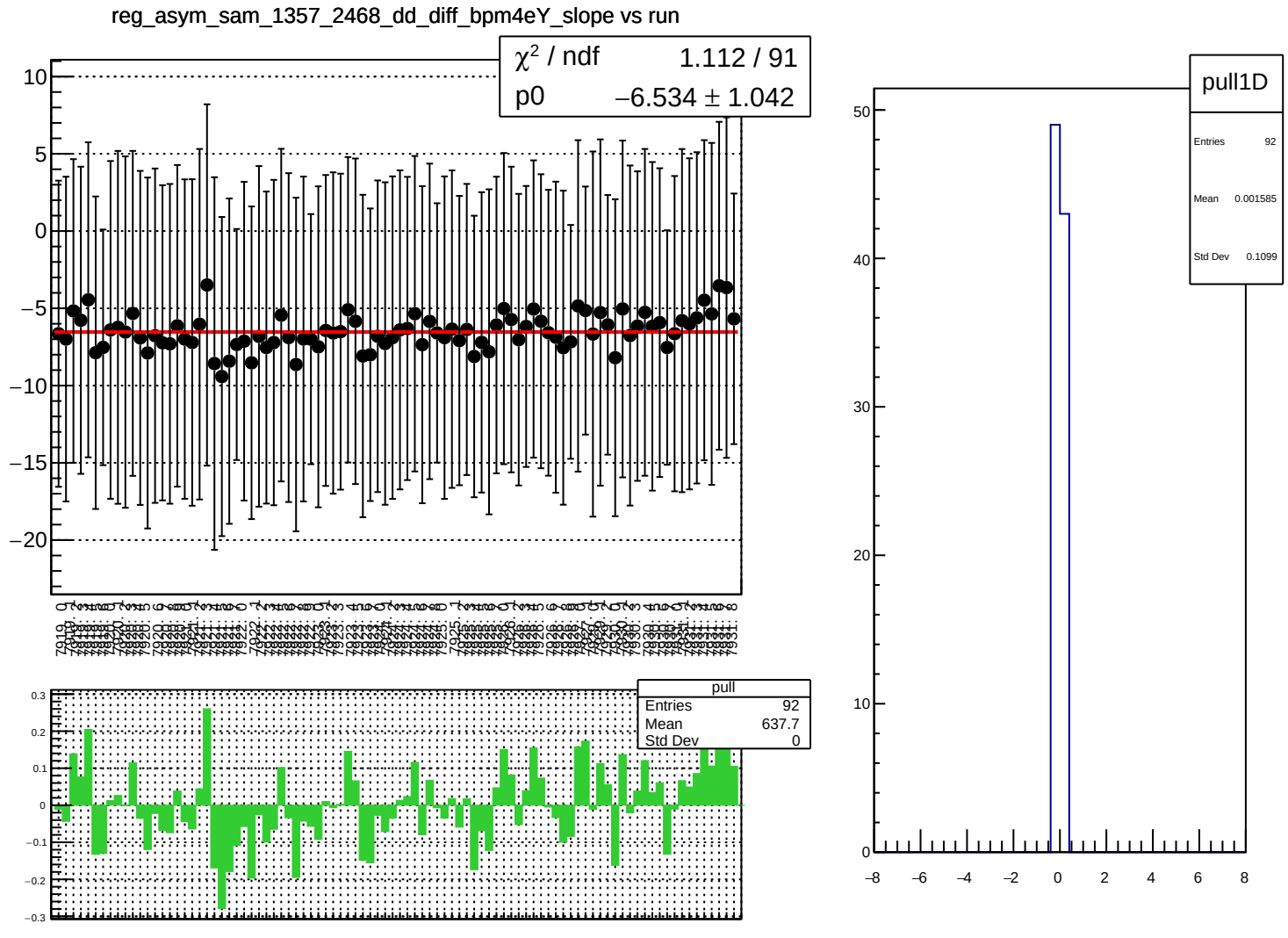

pull1D
Entries 92
Mean −0.002337
Std Dev 0.148

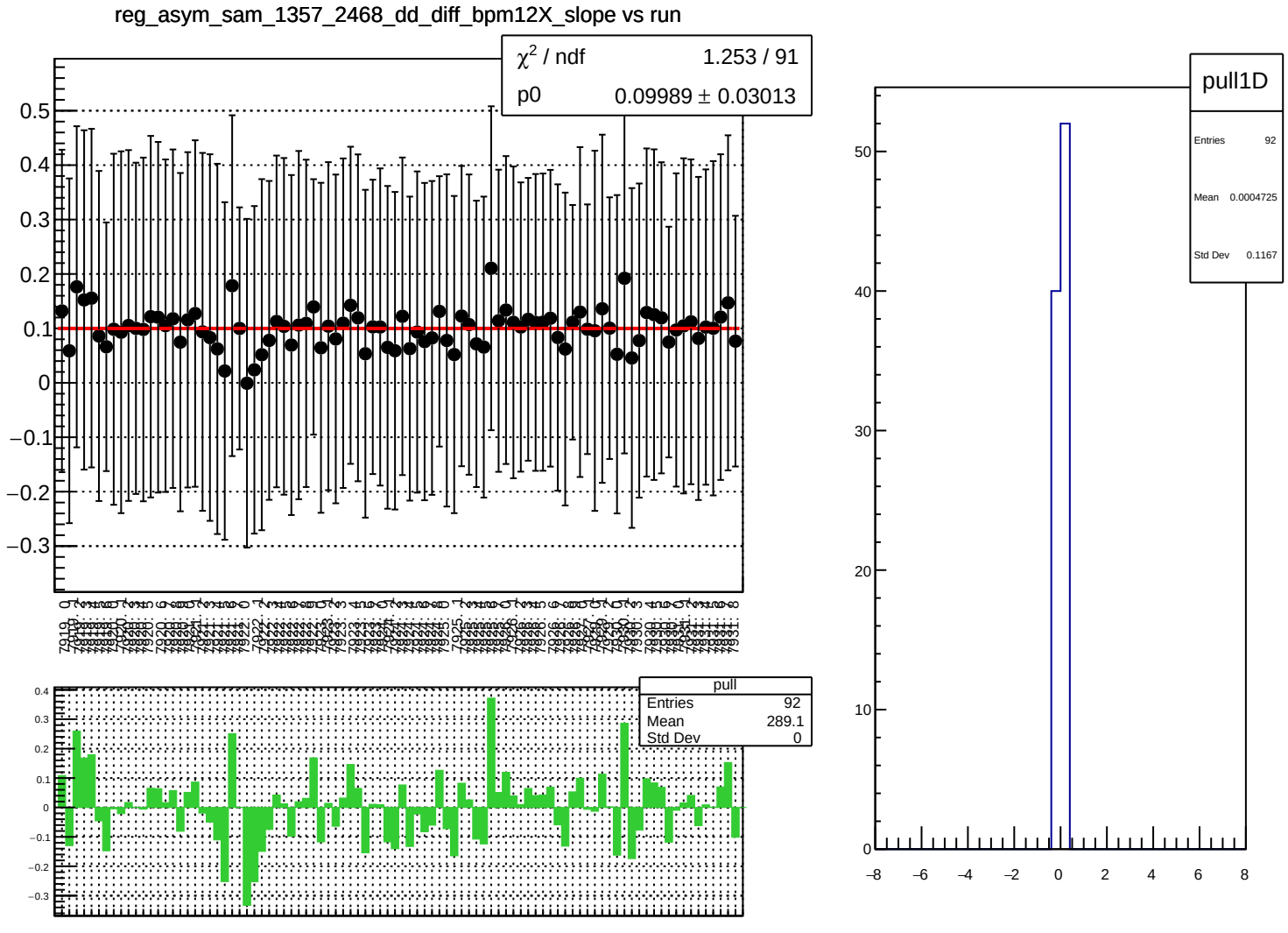

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 2.205 / 91
p0 −0.7128 ± 0.1173
pull
Entries 92
Mean −2100
Std Dev 0
pull1D
Entries 92
Mean −0.0004299
Std Dev 0.1548

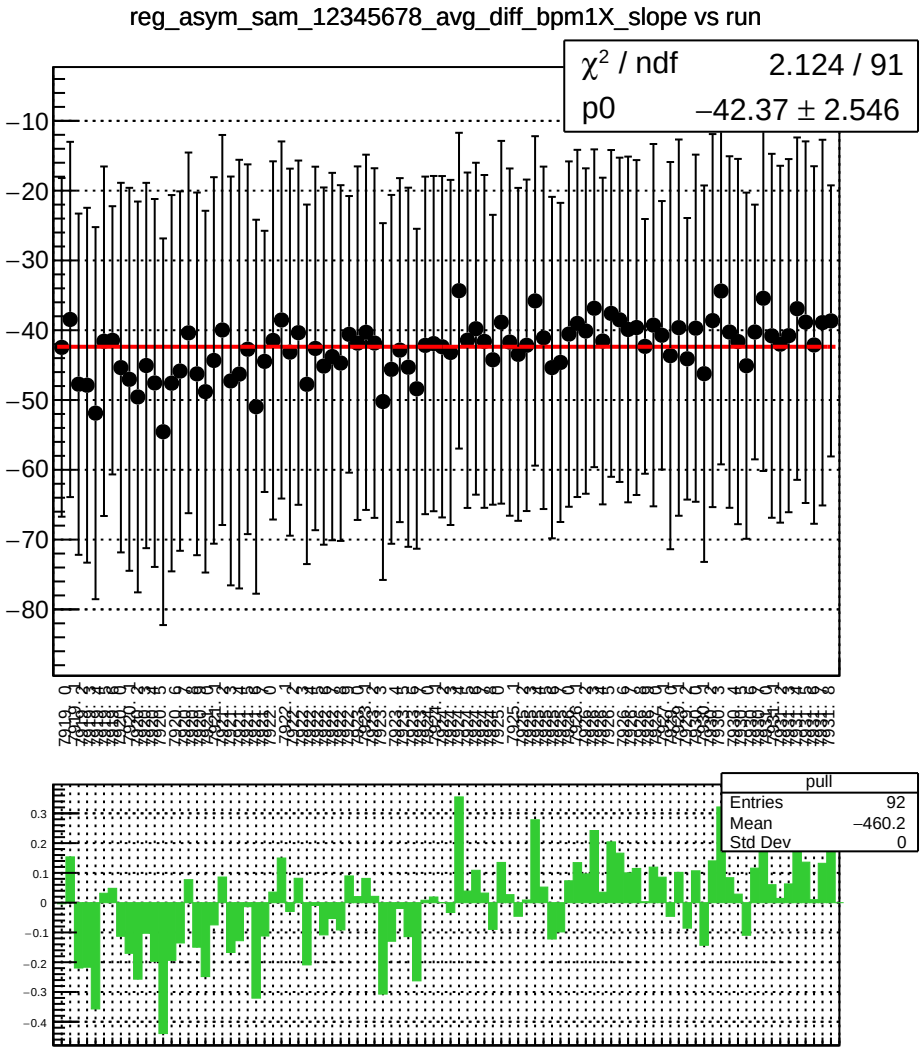

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 1.057 / 91
p0 10.5 ± 0.879
pull
Entries 92
Mean −337
Std Dev 0
pull1D
Entries 92
Mean 0.003247
Std Dev 0.1072

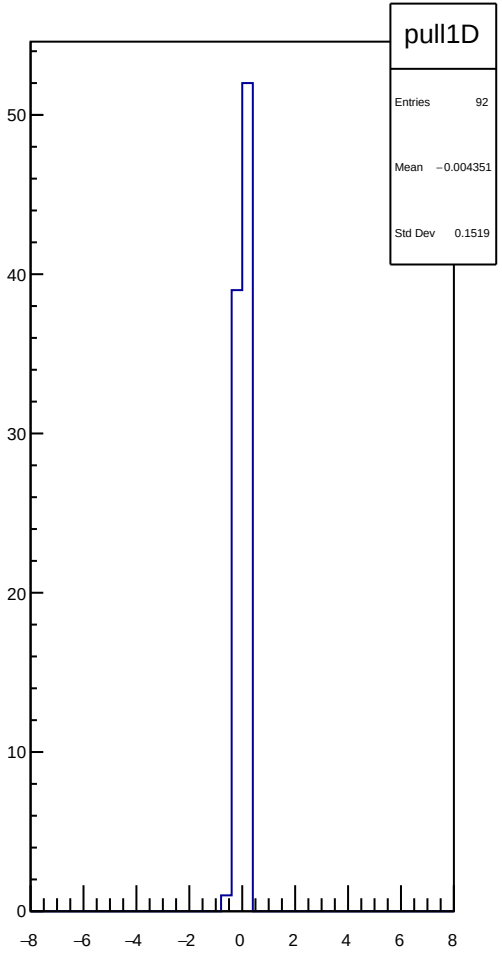

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.152 / 91
p0 1.199 ± 0.9063
pull
Entries 92
Mean 440.5
Std Dev 0
pull1D
Entries 92
Mean −0.002122
Std Dev 0.1119

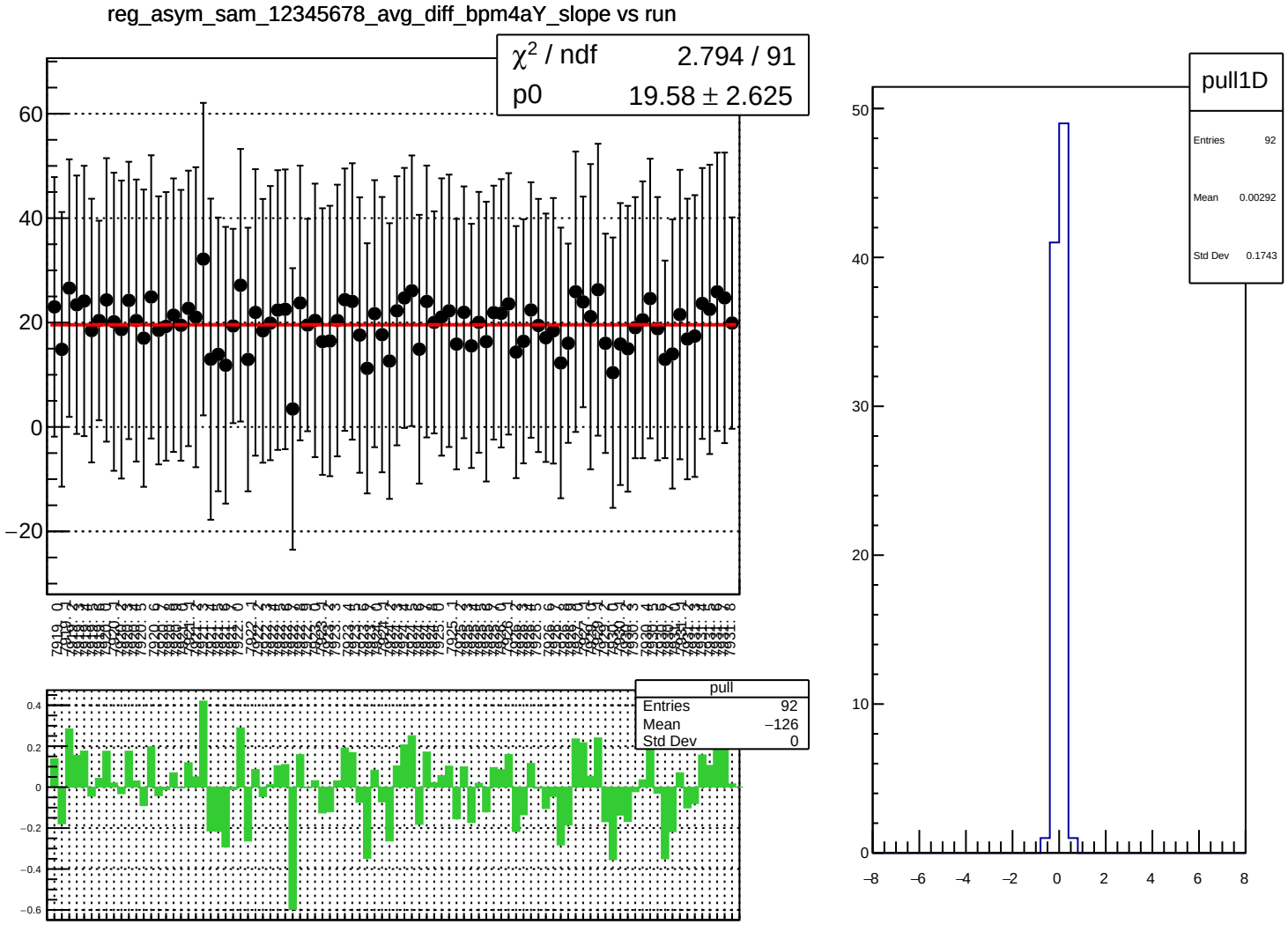

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.077 / 91
p0 13.81 ± 0.7862
pull
Entries 92
Mean −364.2
Std Dev 0
pull1D
Entries 92
Mean −0.003203
Std Dev 0.1081

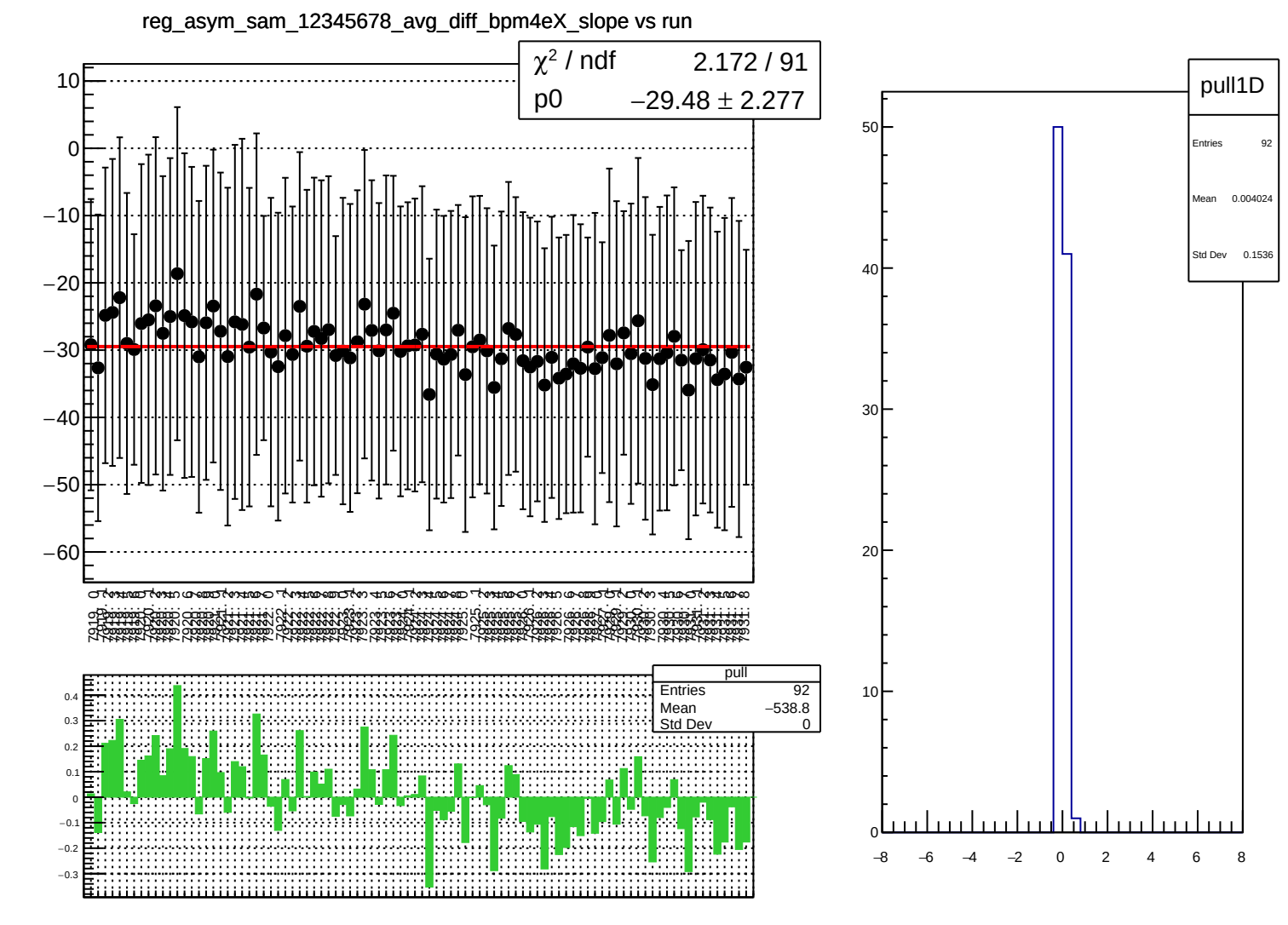

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.112 / 91
p0 −6.534 ± 1.042
pull
Entries 92
Mean 637.7
Std Dev 0
pull1D
Entries 92
Mean 0.001585
Std Dev 0.1099

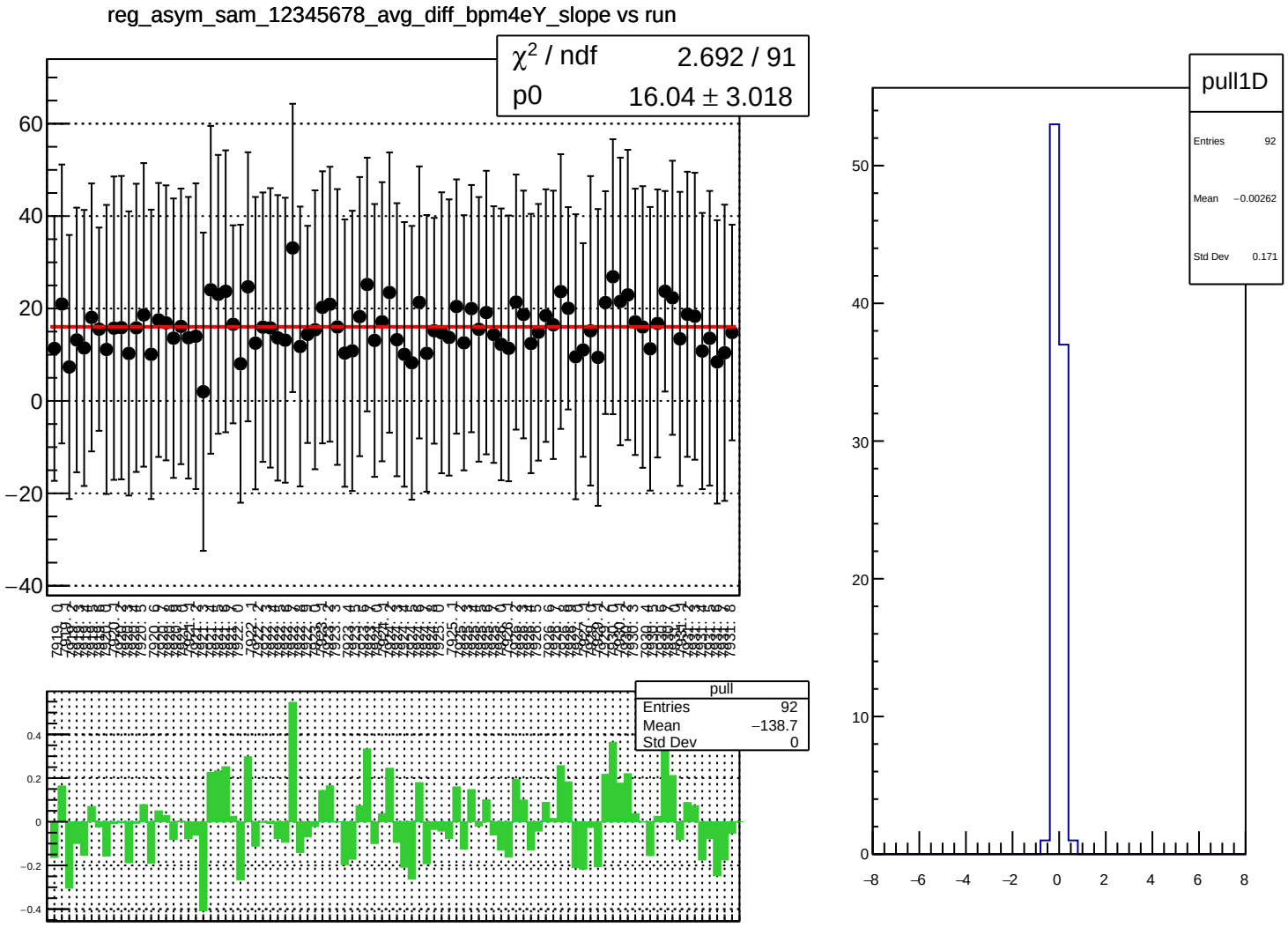

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 1.253 / 91
p0 0.09989 ± 0.03013
pull
Entries 92
Mean 289.1
Std Dev 0
pull1D
Entries 92
Mean 0.0004725
Std Dev 0.1167

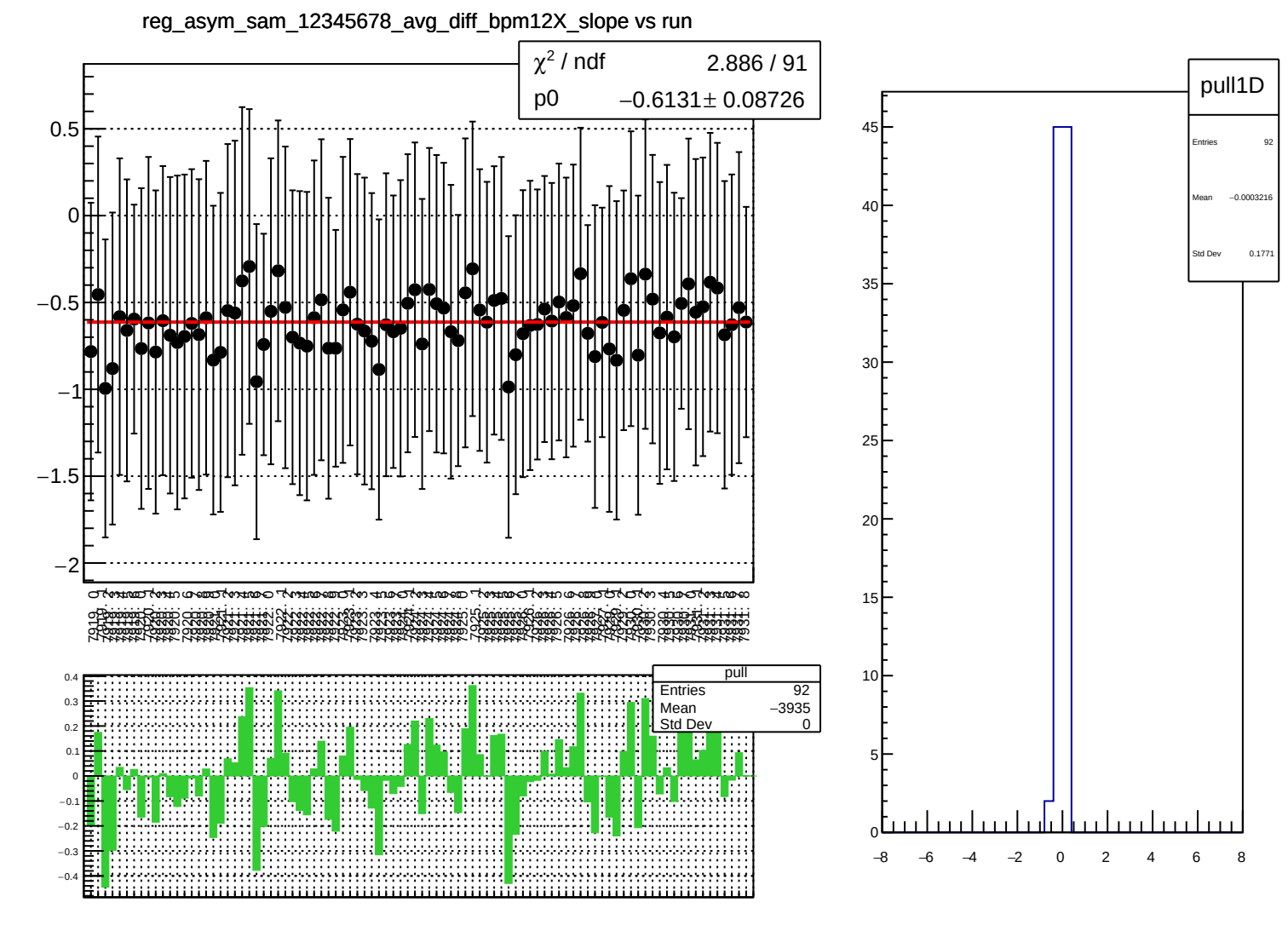

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 2.124 / 91
p0 −42.37 ± 2.546
pull
Entries 92
Mean −460.2
Std Dev 0

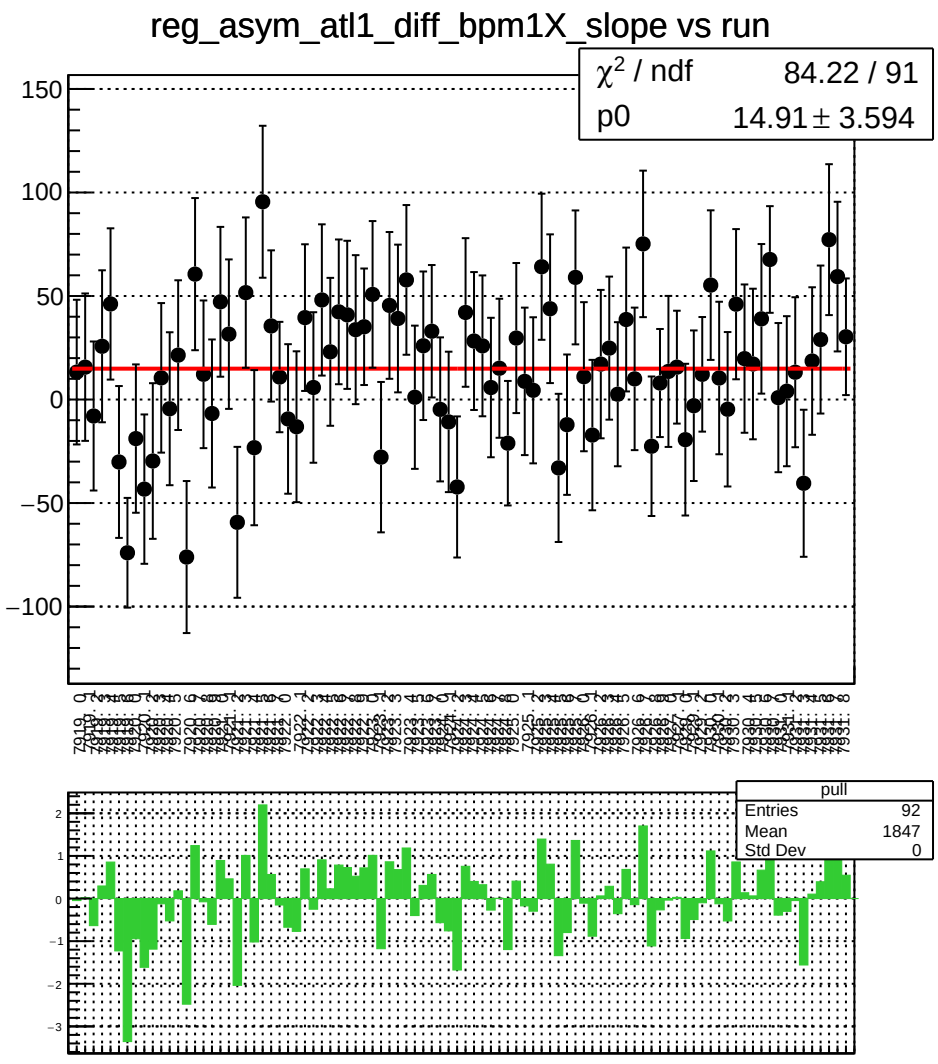

pull1D
Entries 92
Mean −0.004351
Std Dev 0.1519

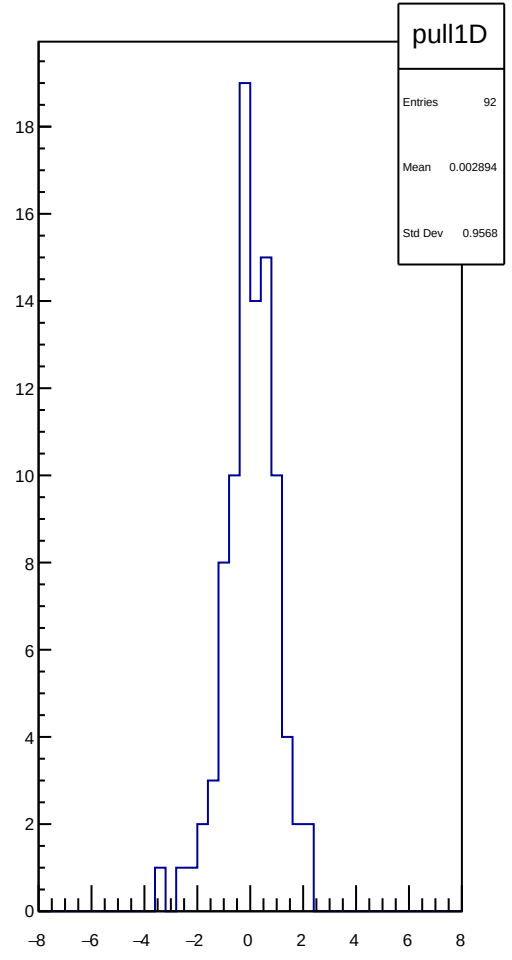

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.794 / 91
p0 19.58 ± 2.625
pull
Entries 92
Mean −126
Std Dev 0
pull1D
Entries 92
Mean 0.00292
Std Dev 0.1743

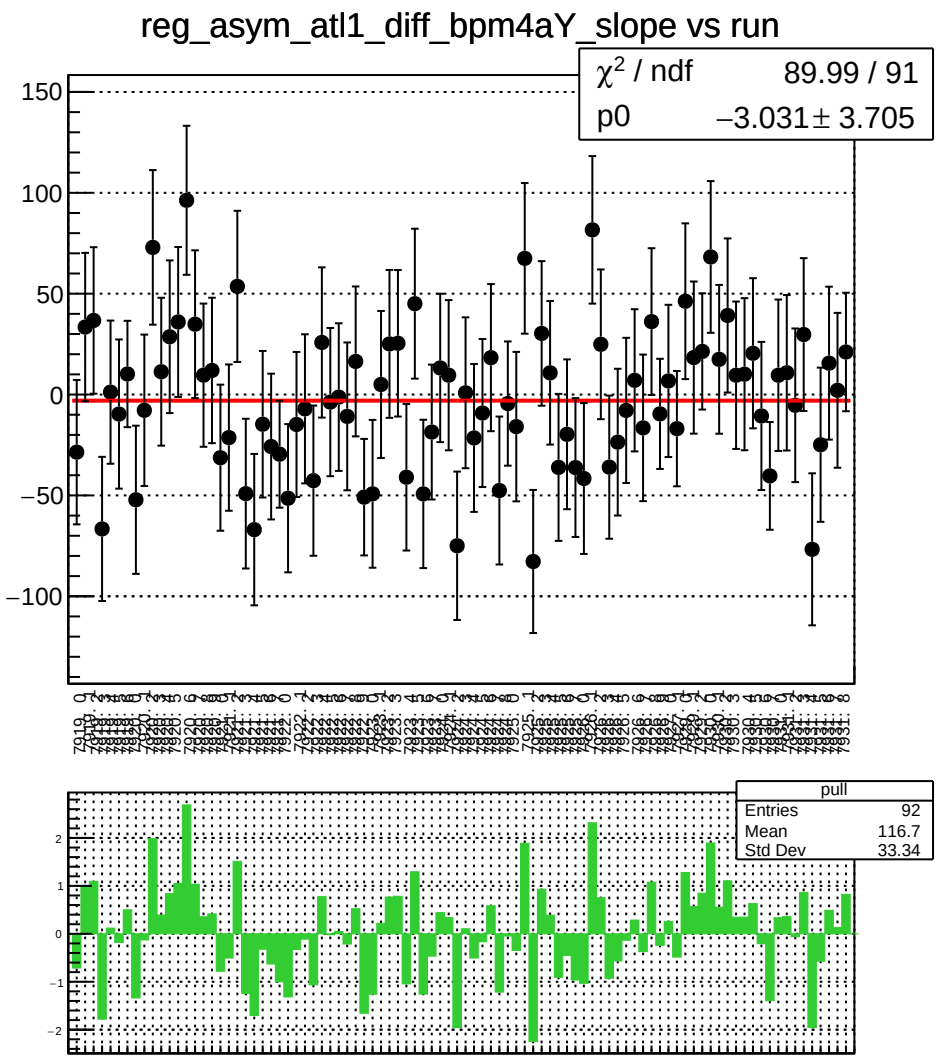

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.172 / 91
p0 −29.48 ± 2.277
pull
Entries 92
Mean −538.8
Std Dev 0
pull1D
Entries 92
Mean 0.004024
Std Dev 0.1536

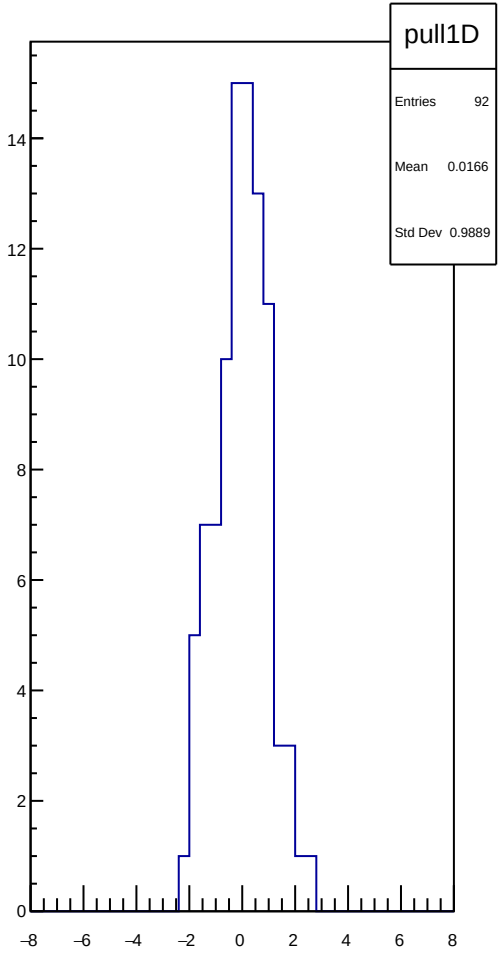

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.692 / 91
p0 16.04 ± 3.018
pull
Entries 92
Mean −138.7
Std Dev 0
pull1D
Entries 92
Mean −0.00262
Std Dev 0.171

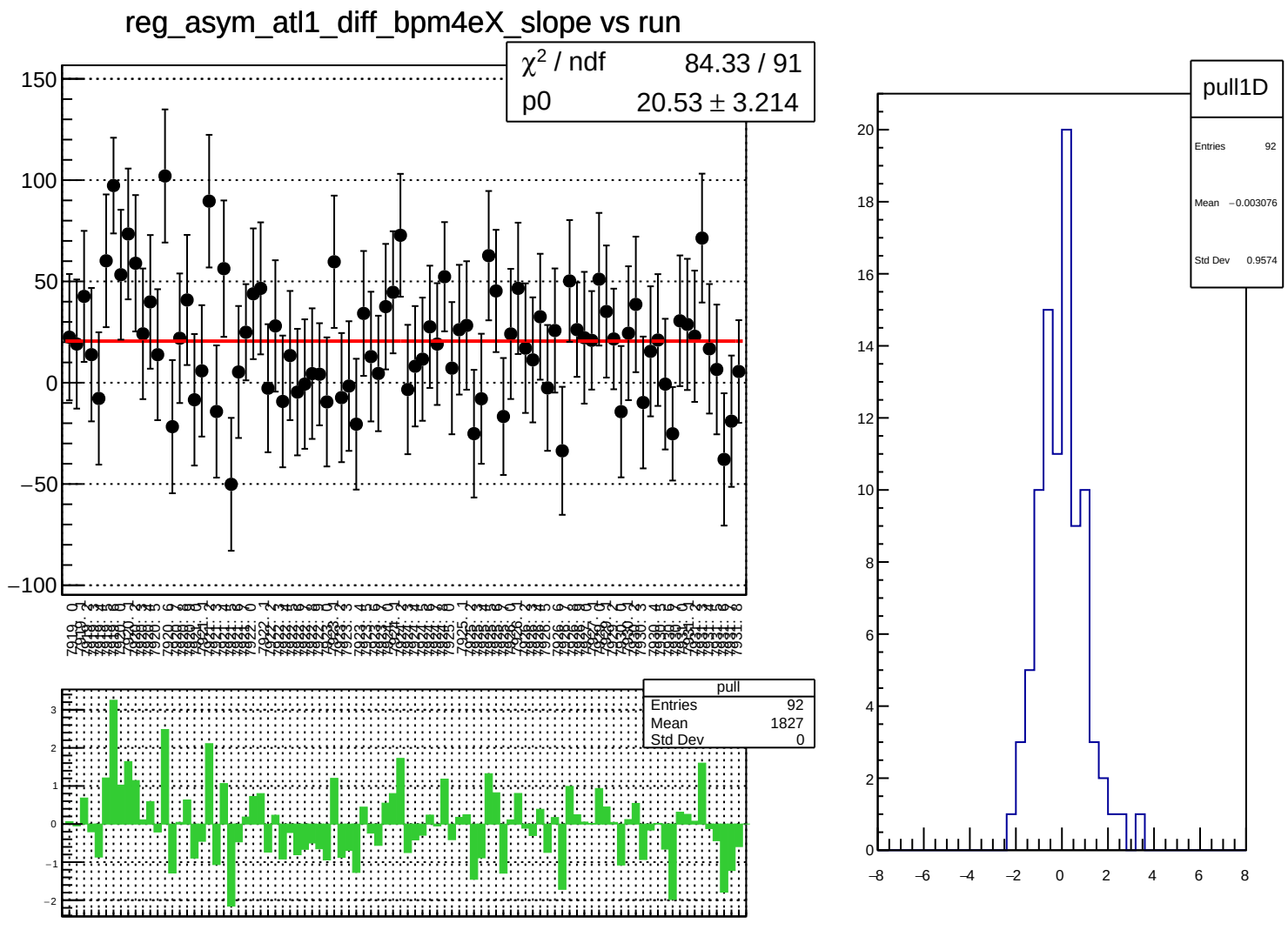

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 2.886 / 91
p0 −0.6131± 0.08726
pull
Entries 92
Mean −3935
Std Dev 0
pull1D
Entries 92
Mean −0.0003216
Std Dev 0.1771

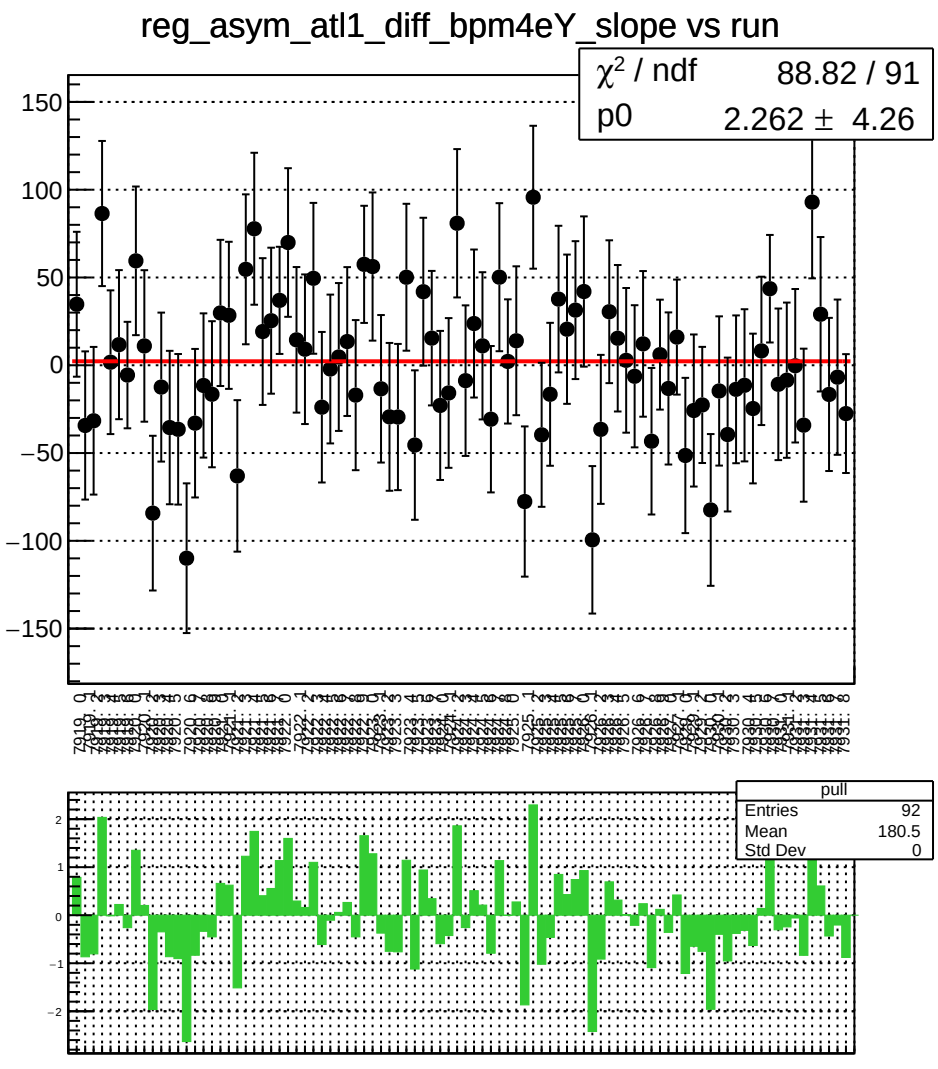

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 84.22 / 91
p0 14.91 ± 3.594
150
100
50
0
−50
−100
pull
Entries 92
Mean 1847
Std Dev 0
2
1
0
−1
−2
−3

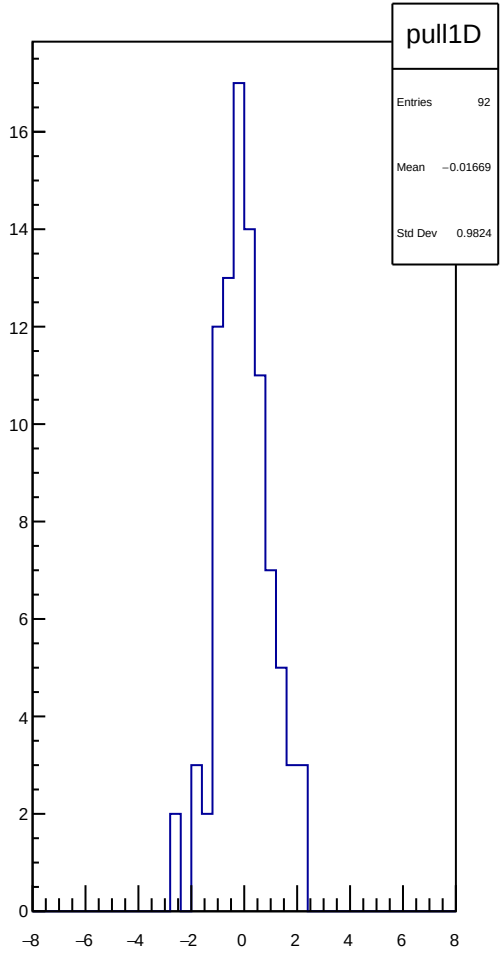

pull1D
Entries 92
Mean 0.002894
Std Dev 0.9568
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

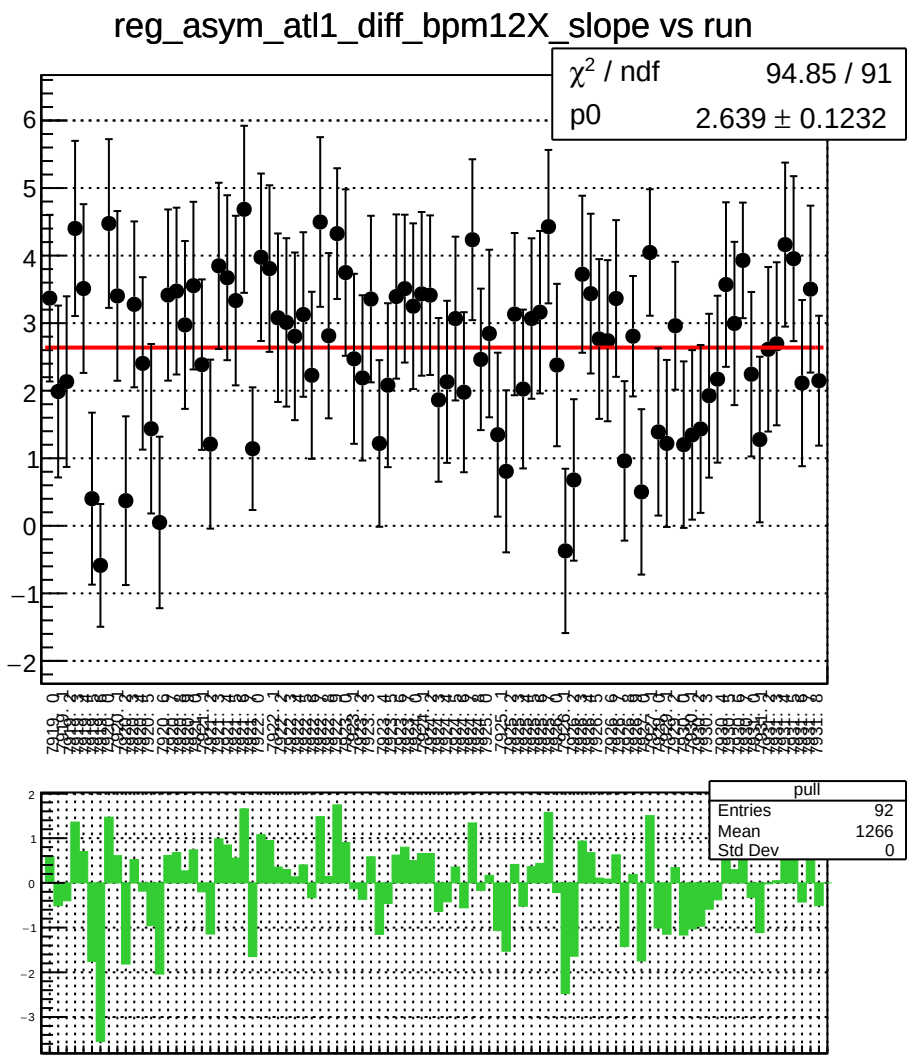

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 89.99 / 91
p0 −3.031 ± 3.705
150
100
50
0
−50
−100
pull
Entries 92
Mean 116.7
Std Dev 33.34
2
1
0
−1
−2

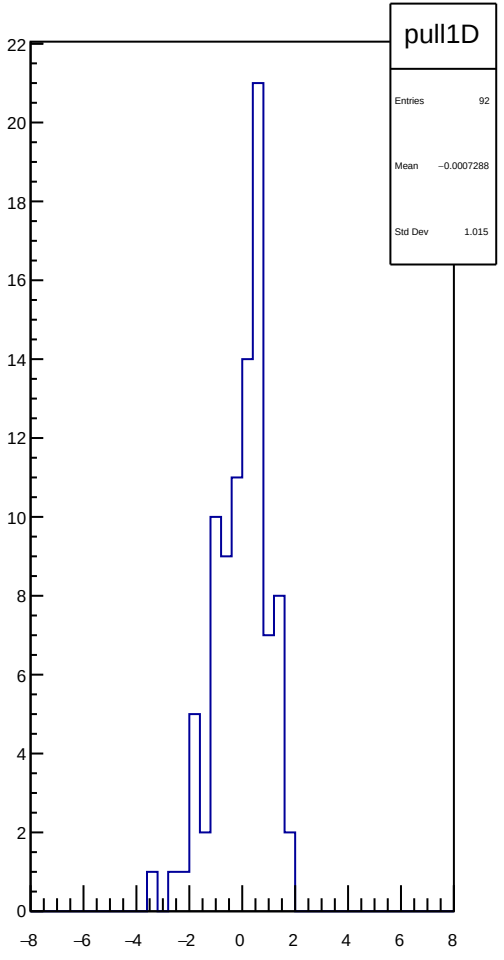

pull1D
Entries 92
Mean 0.0166
Std Dev 0.9889
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

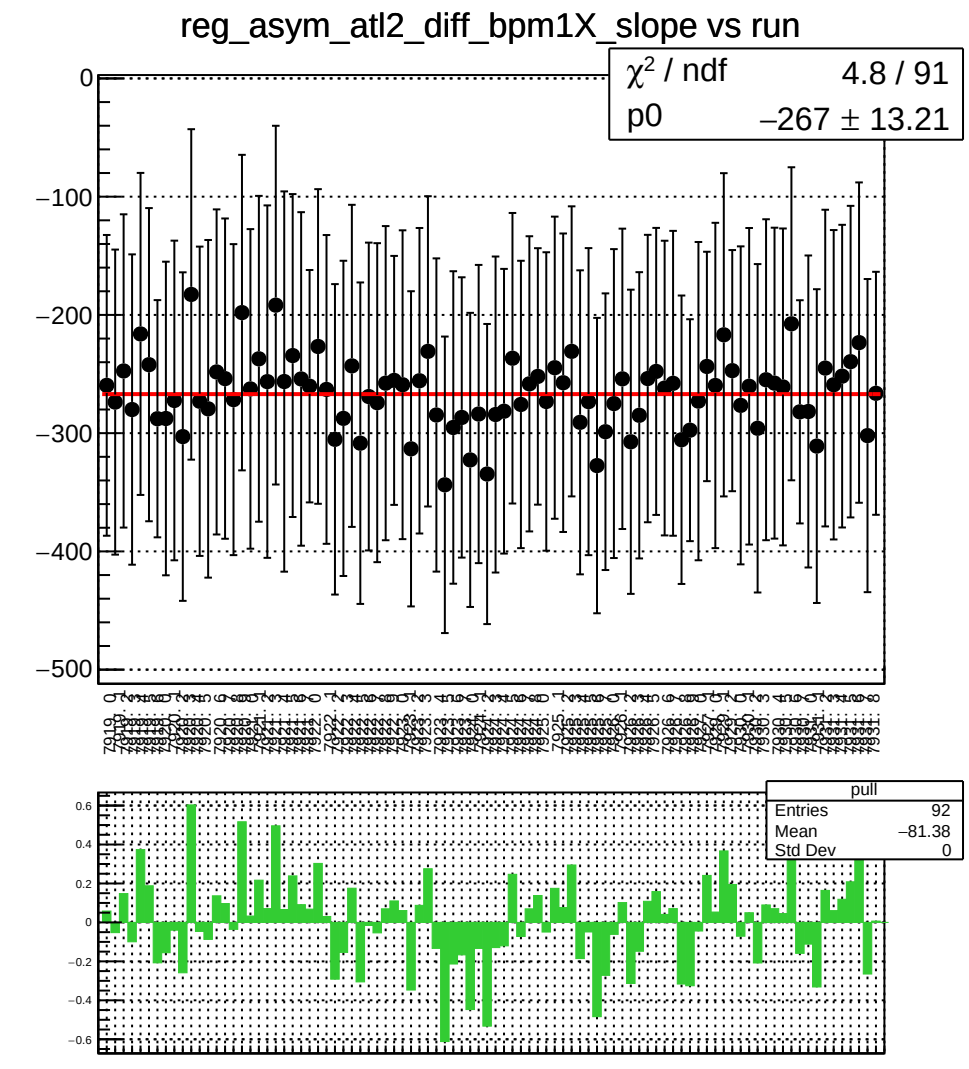

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 84.33 / 91
p0 20.53 ± 3.214
150
100
50
0
−50
−100
pull
Entries 92
Mean 1827
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.003076
Std Dev 0.9574
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

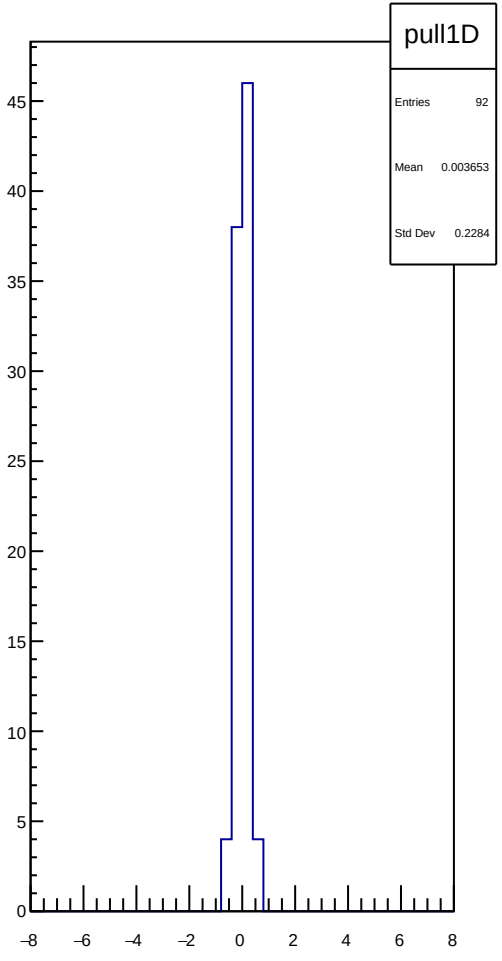

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 88.82 / 91
p0 2.262 ± 4.26
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean 180.5
Std Dev 0
2
1
0
−1
−2

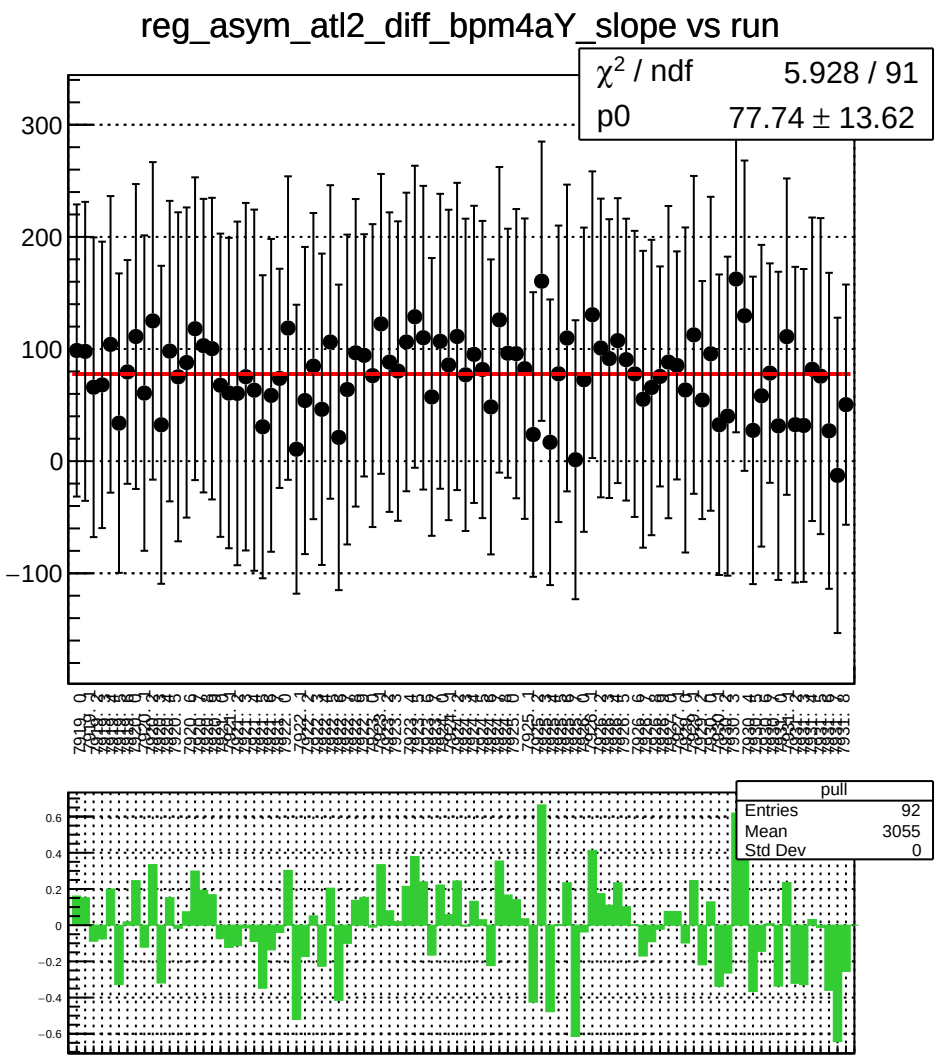

pull1D
Entries 92
Mean −0.01669
Std Dev 0.9824
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

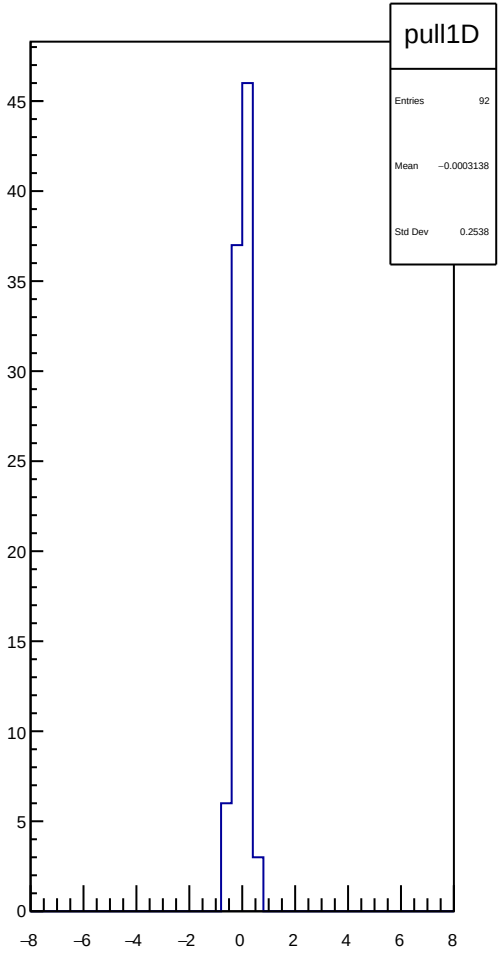

reg_asym_atl1_diff_bpm12X_slope vs run
χ^2 / ndf 94.85 / 91
p0 2.639 ± 0.1232
pull
Entries 92
Mean 1266
Std Dev 0

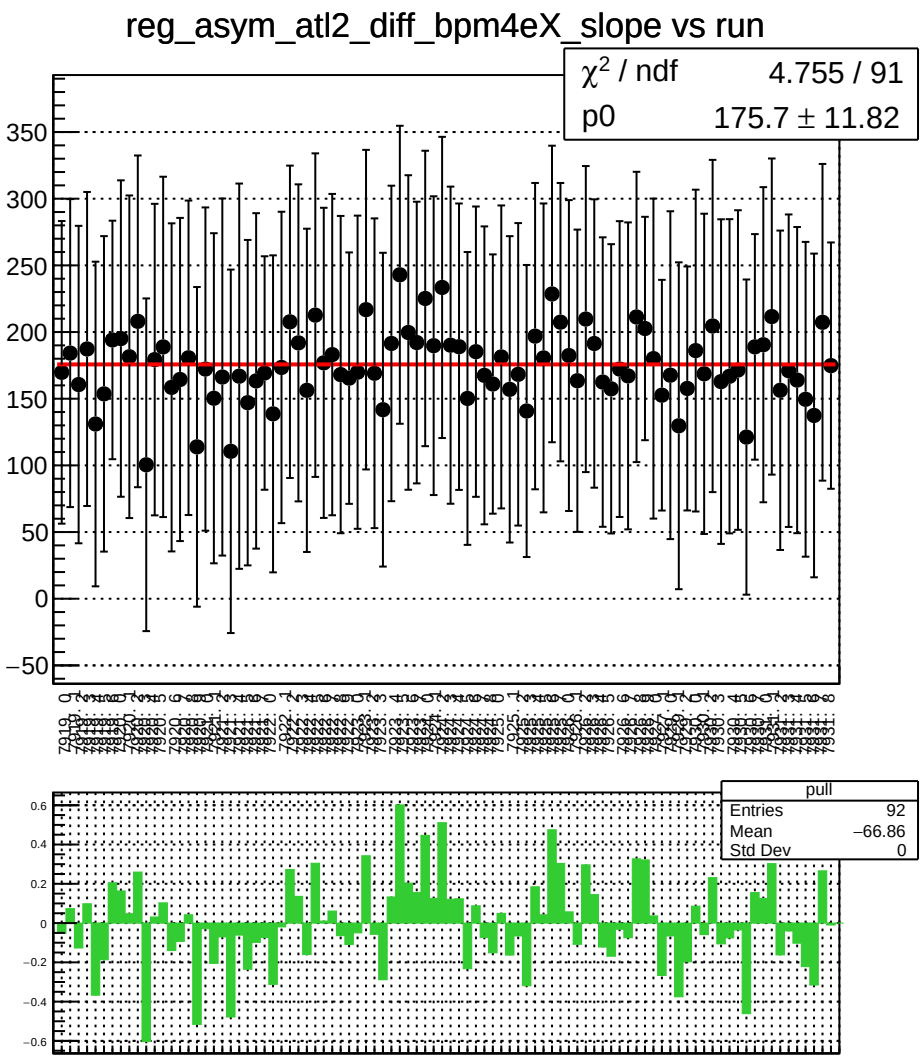

pull1D
Entries 92
Mean −0.0007288
Std Dev 1.015

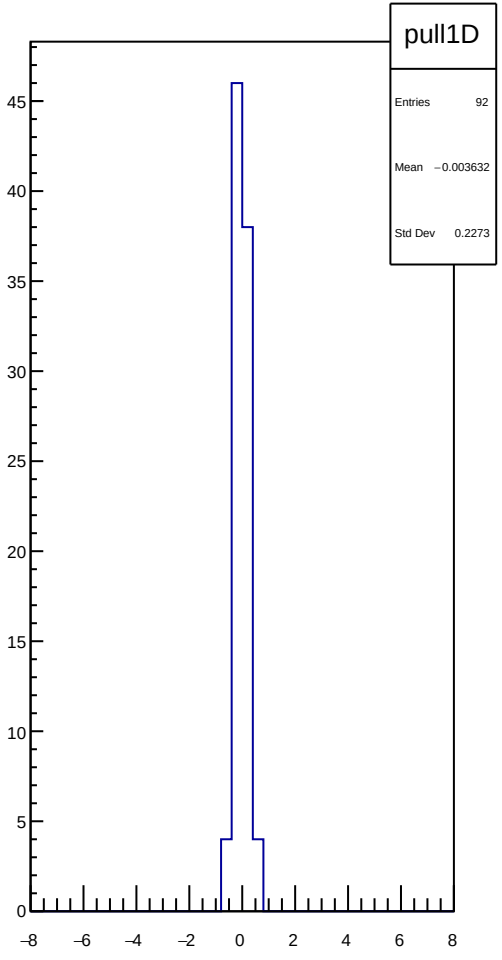

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 4.8 / 91
p0 −267 ± 13.21
pull
Entries 92
Mean −81.38
Std Dev 0

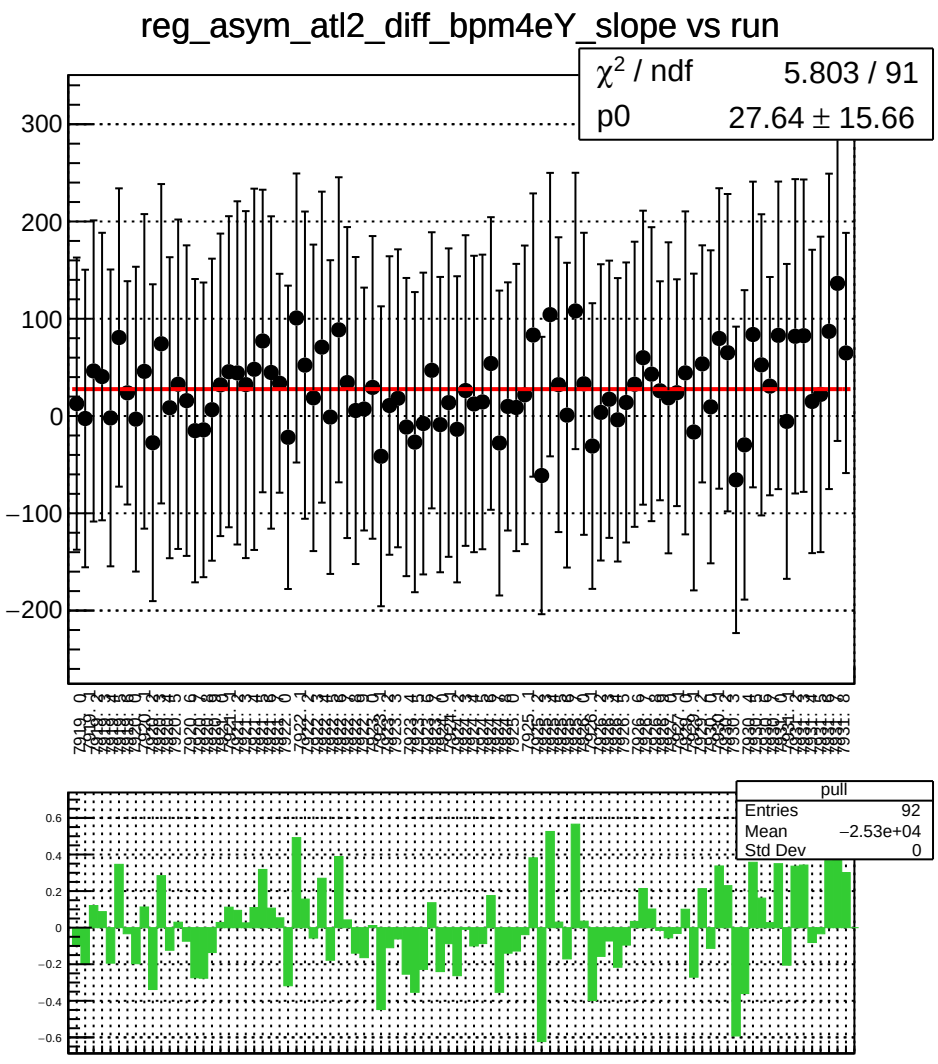

pull1D
Entries 92
Mean 0.003653
Std Dev 0.2284

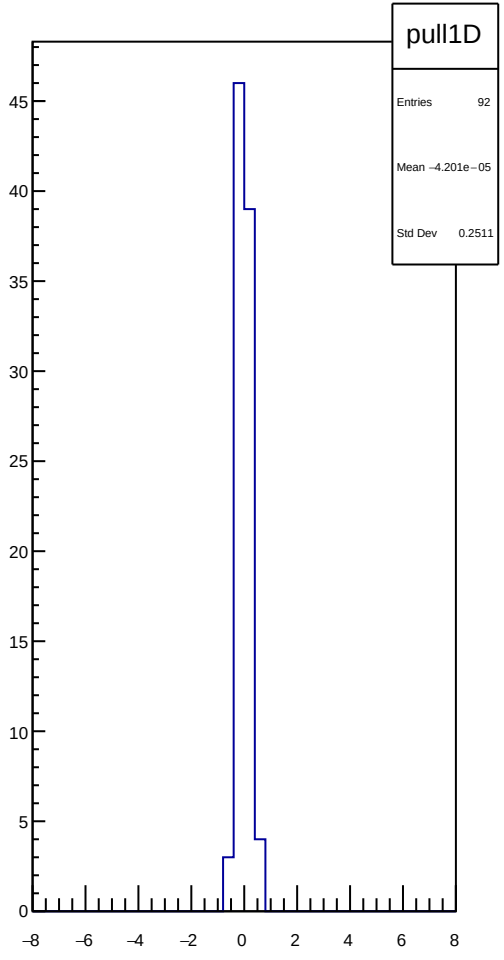

reg_asym_atl2_diff_bpm4aY_slope vs run
χ^2 / ndf 5.928 / 91
p0 77.74 ± 13.62
300
200
100
0
−100
pull
Entries 92
Mean 3055
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

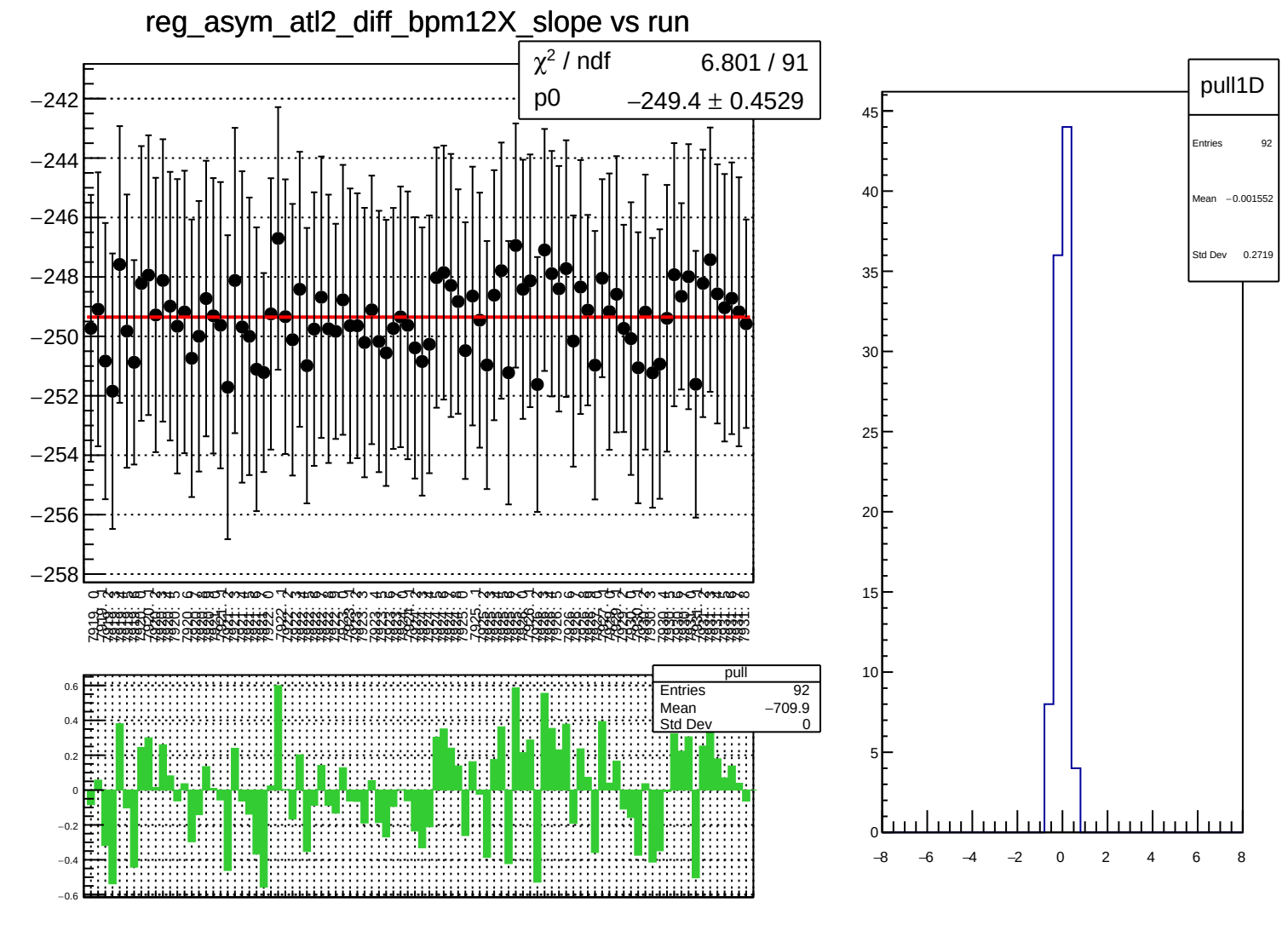

pull1D
Entries 92
Mean −0.0003138
Std Dev 0.2538
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

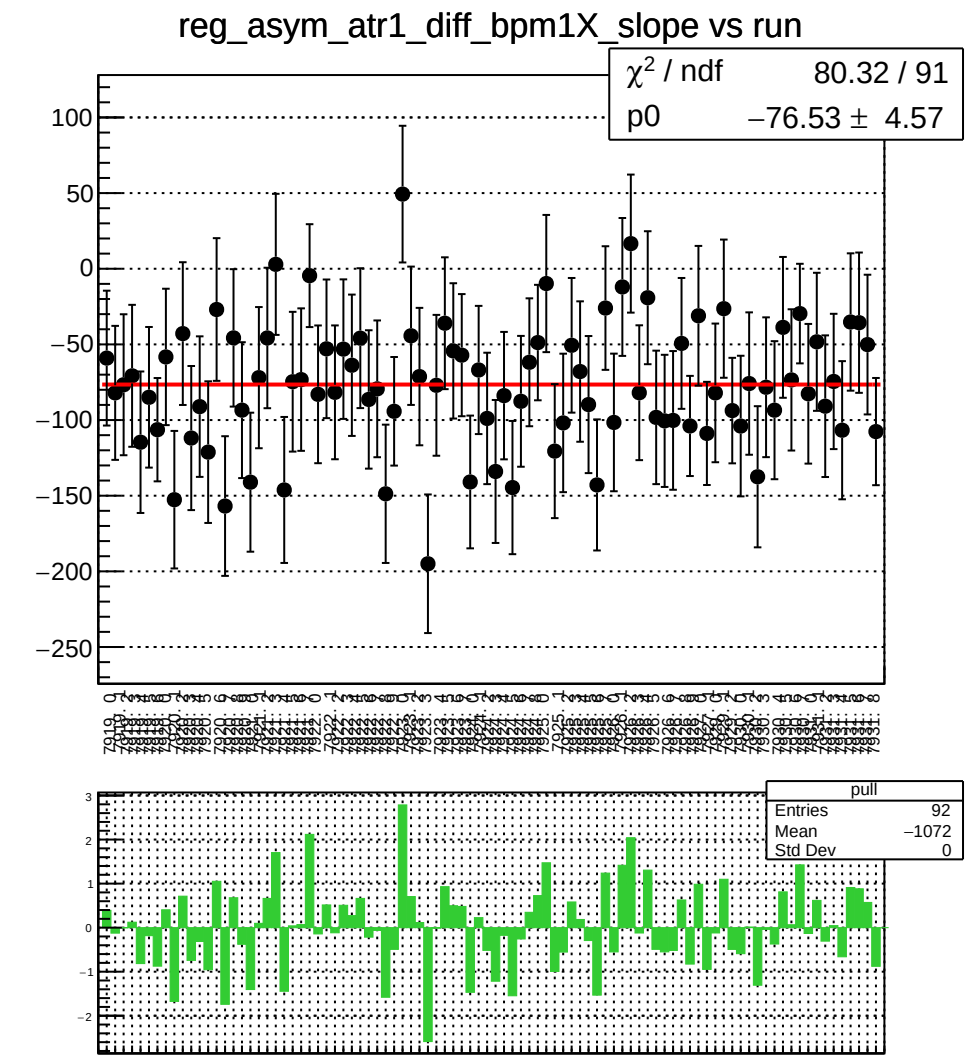

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 4.755 / 91
p0 175.7 ± 11.82
pull
Entries 92
Mean −66.86
Std Dev 0

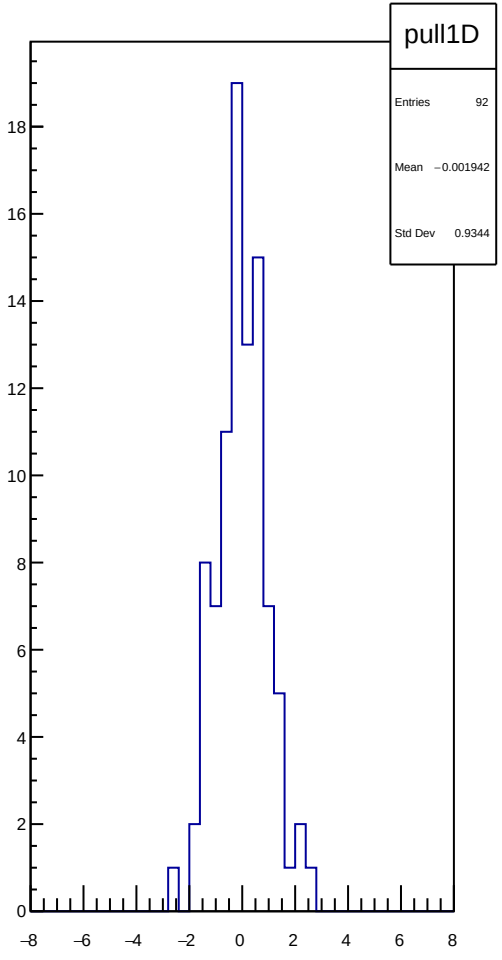

pull1D
Entries 92
Mean −0.003632
Std Dev 0.2273

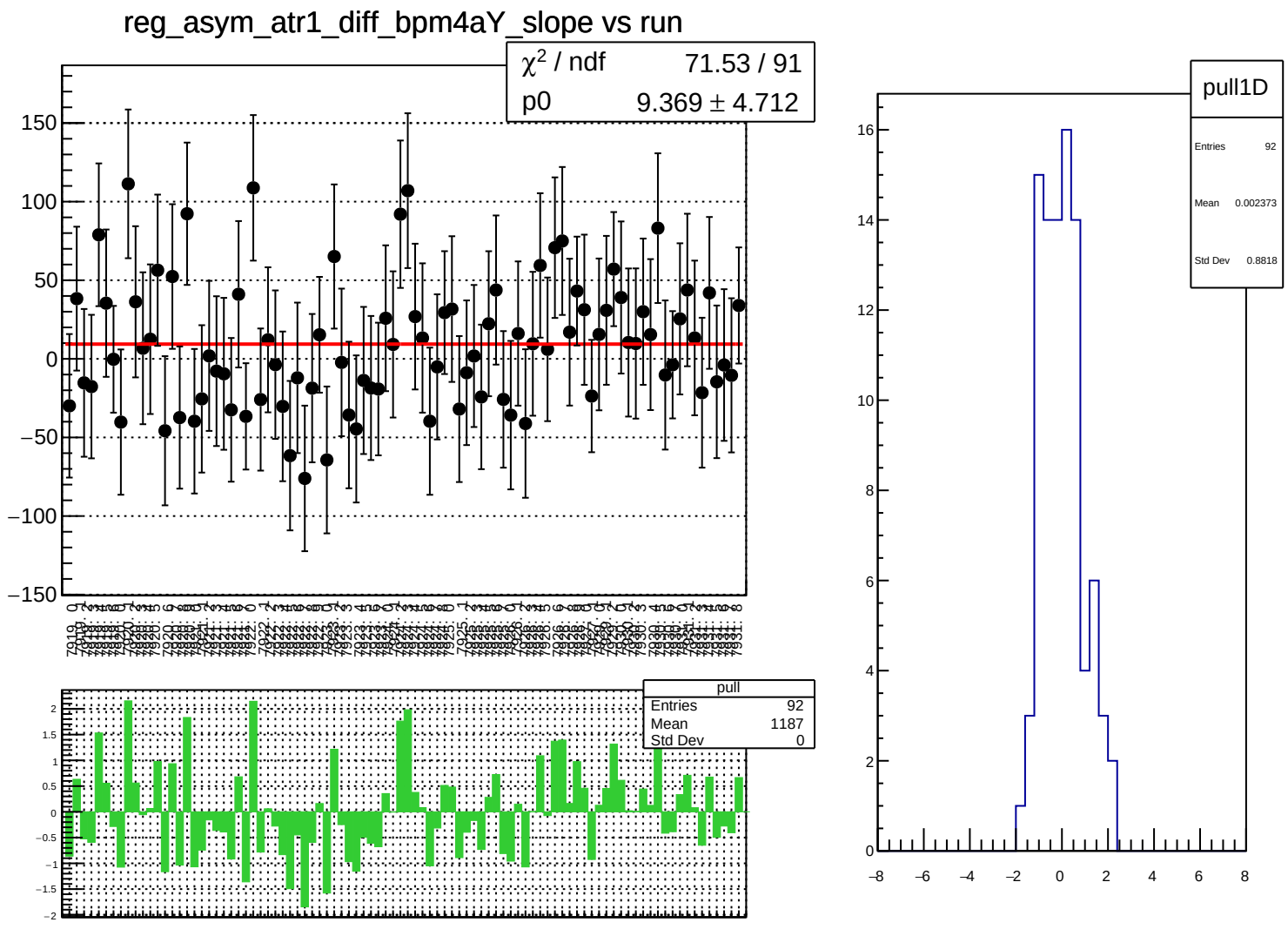

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 5.803 / 91
p0 27.64 ± 15.66
300
200
100
0
−100
−200
pull
Entries 92
Mean −2.53e+04
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

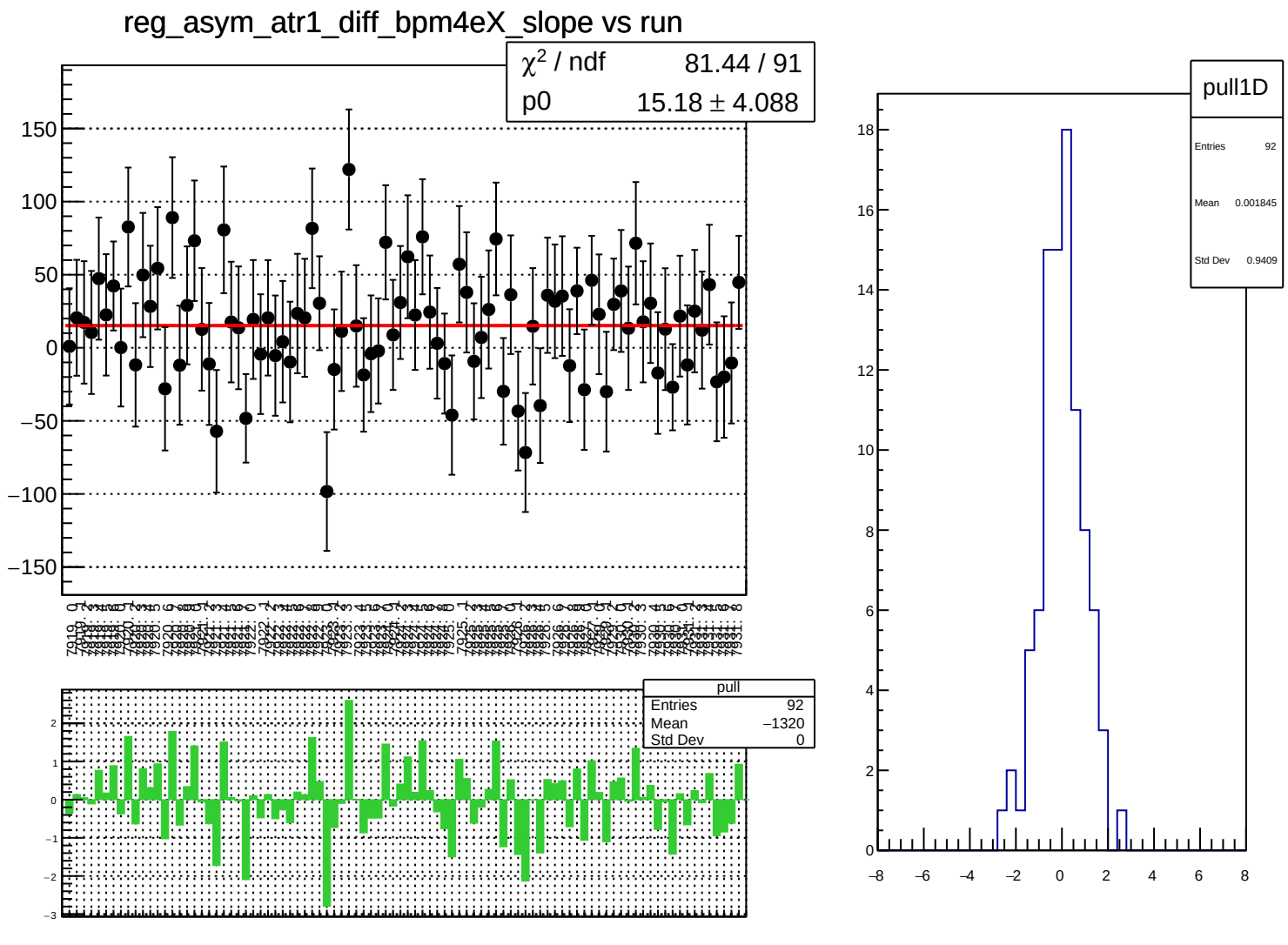

pull1D
Entries 92
Mean −4.201e−05
Std Dev 0.2511
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

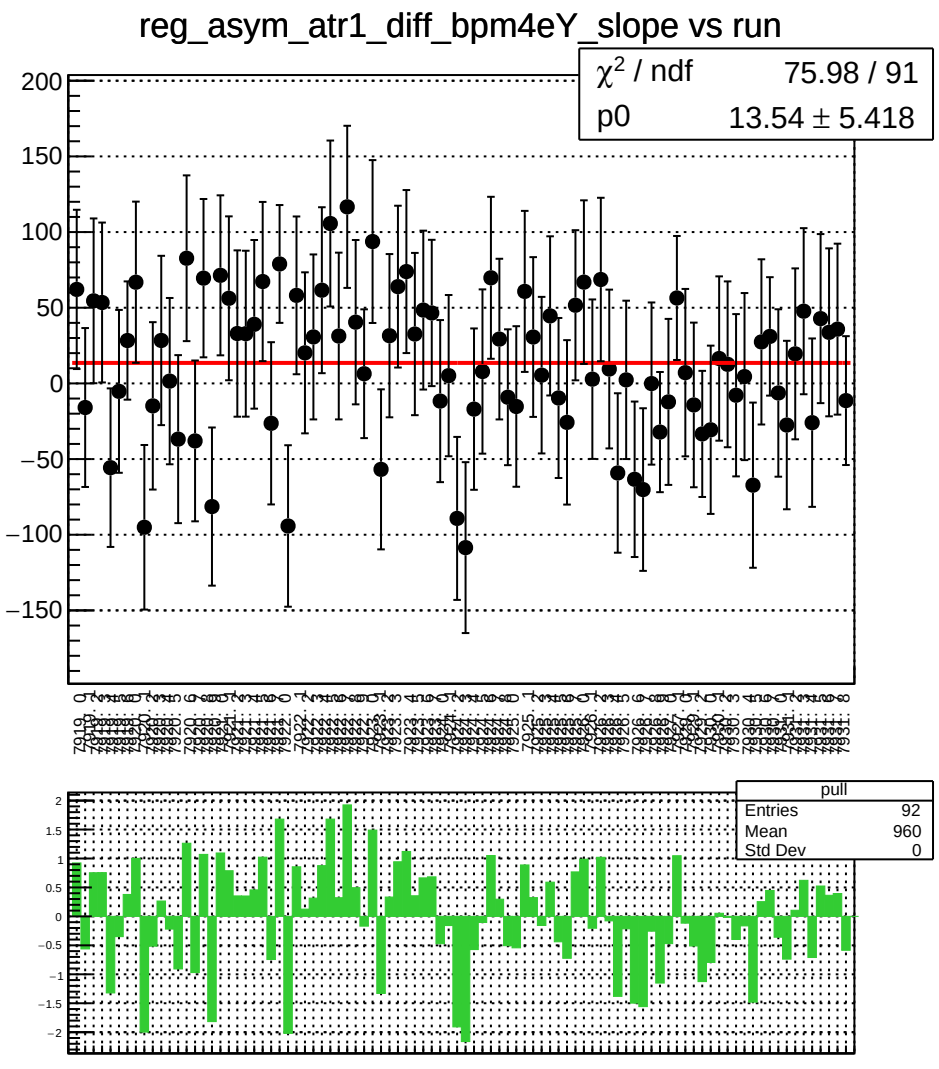

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 6.801 / 91
p0 −249.4 ± 0.4529
pull
Entries 92
Mean −709.9
Std Dev 0
pull1D
Entries 92
Mean −0.001552
Std Dev 0.2719

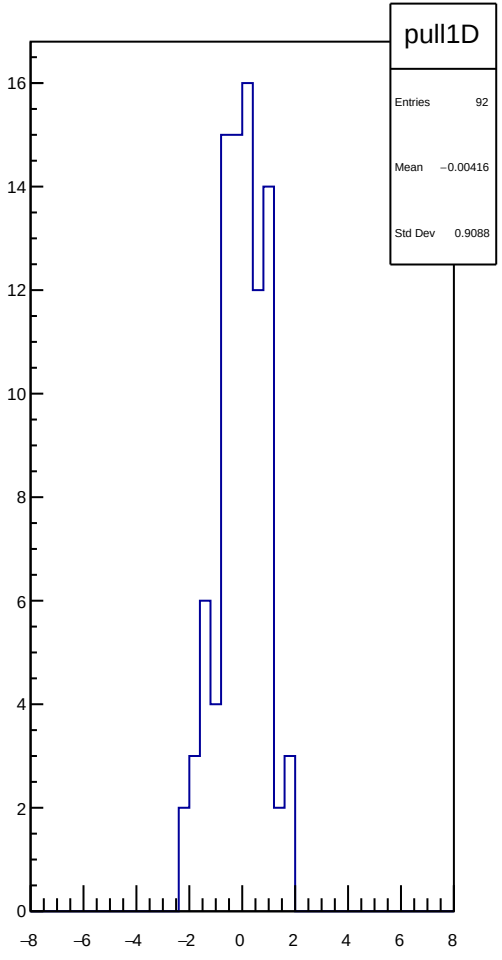

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 80.32 / 91
p0 −76.53 ± 4.57
pull
Entries 92
Mean −1072
Std Dev 0

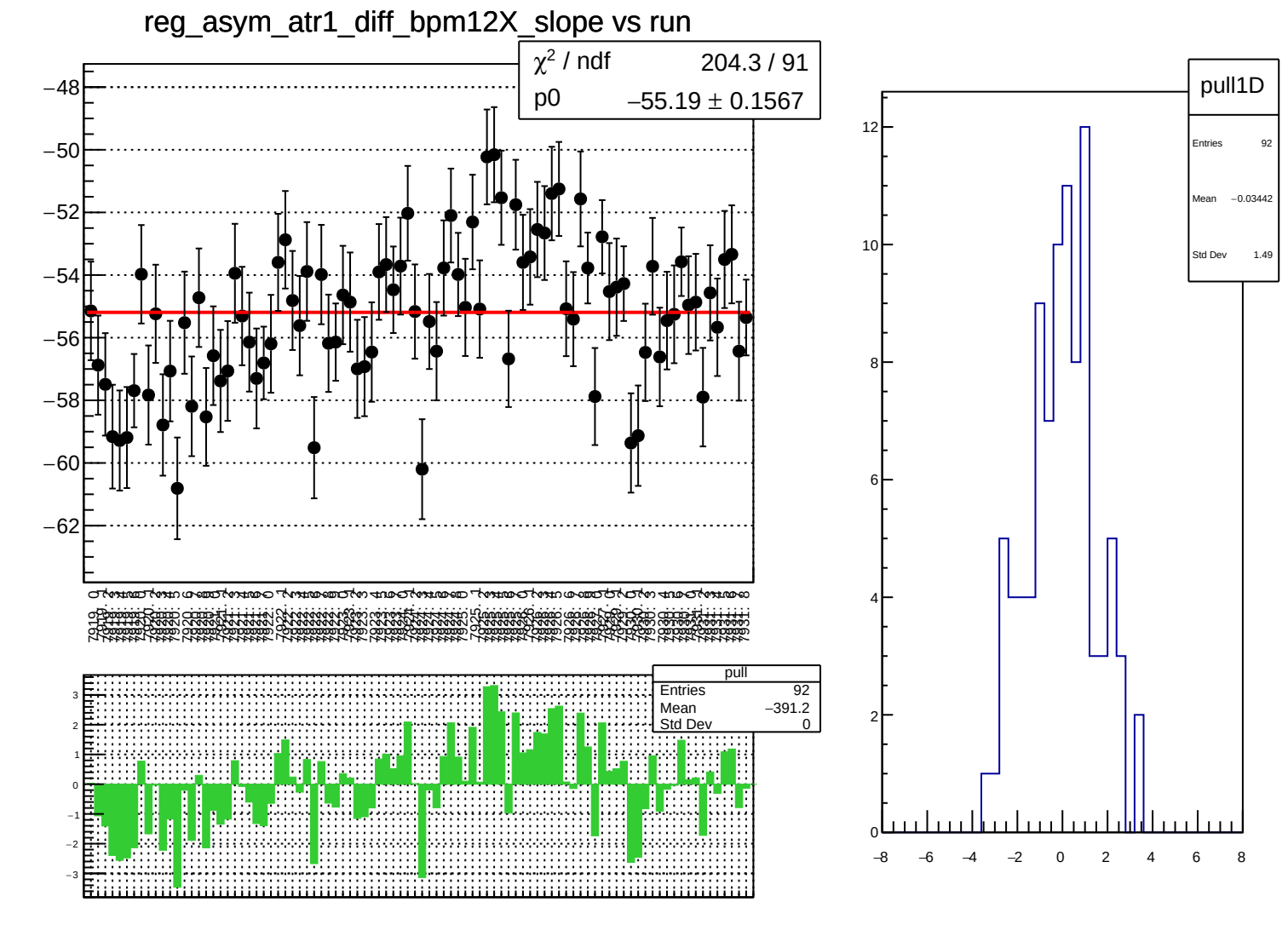

pull1D
Entries 92
Mean −0.001942
Std Dev 0.9344

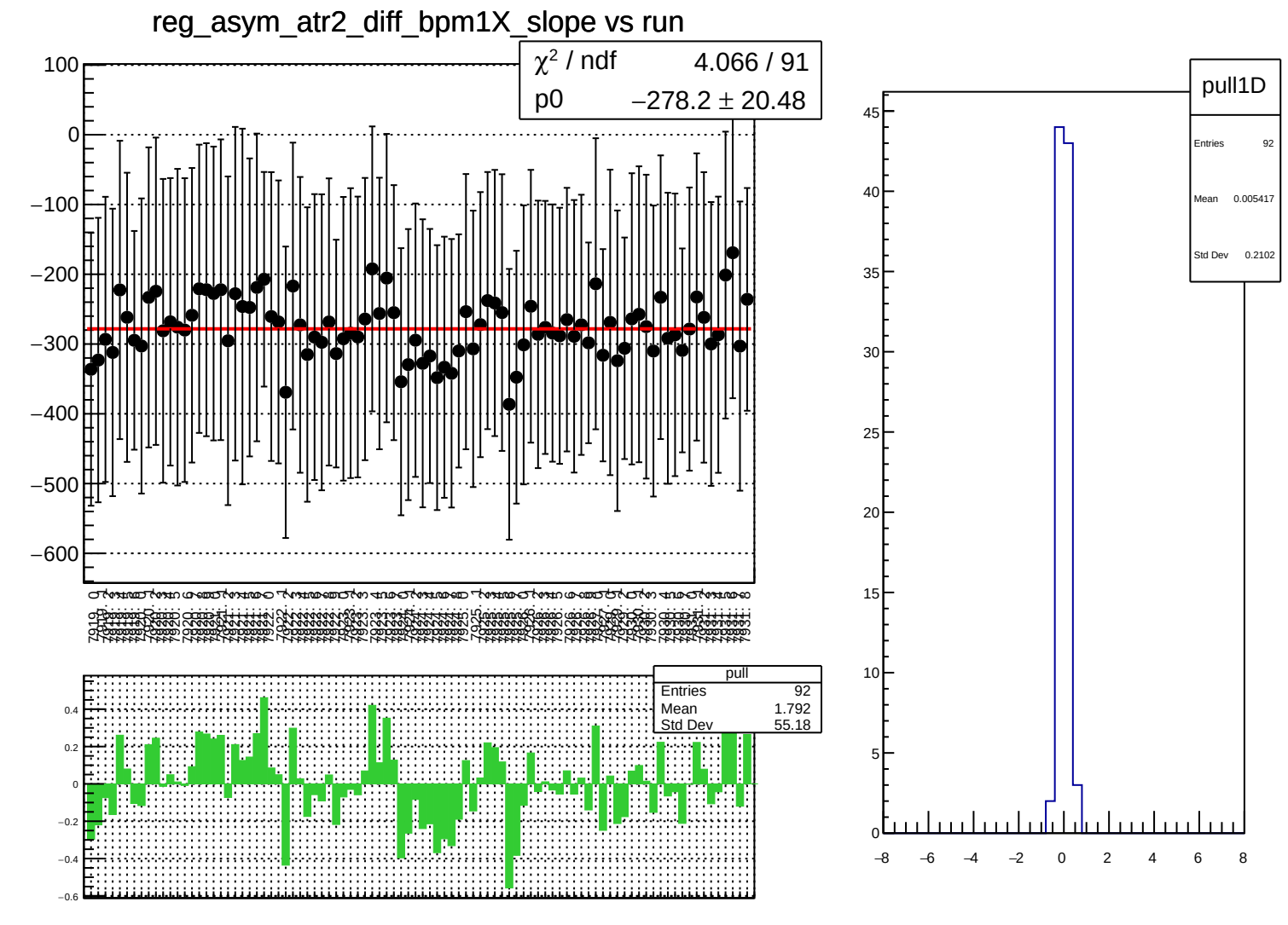

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 71.53 / 91
p0 9.369 ± 4.712
pull
Entries 92
Mean 1187
Std Dev 0
pull1D
Entries 92
Mean 0.002373
Std Dev 0.8818

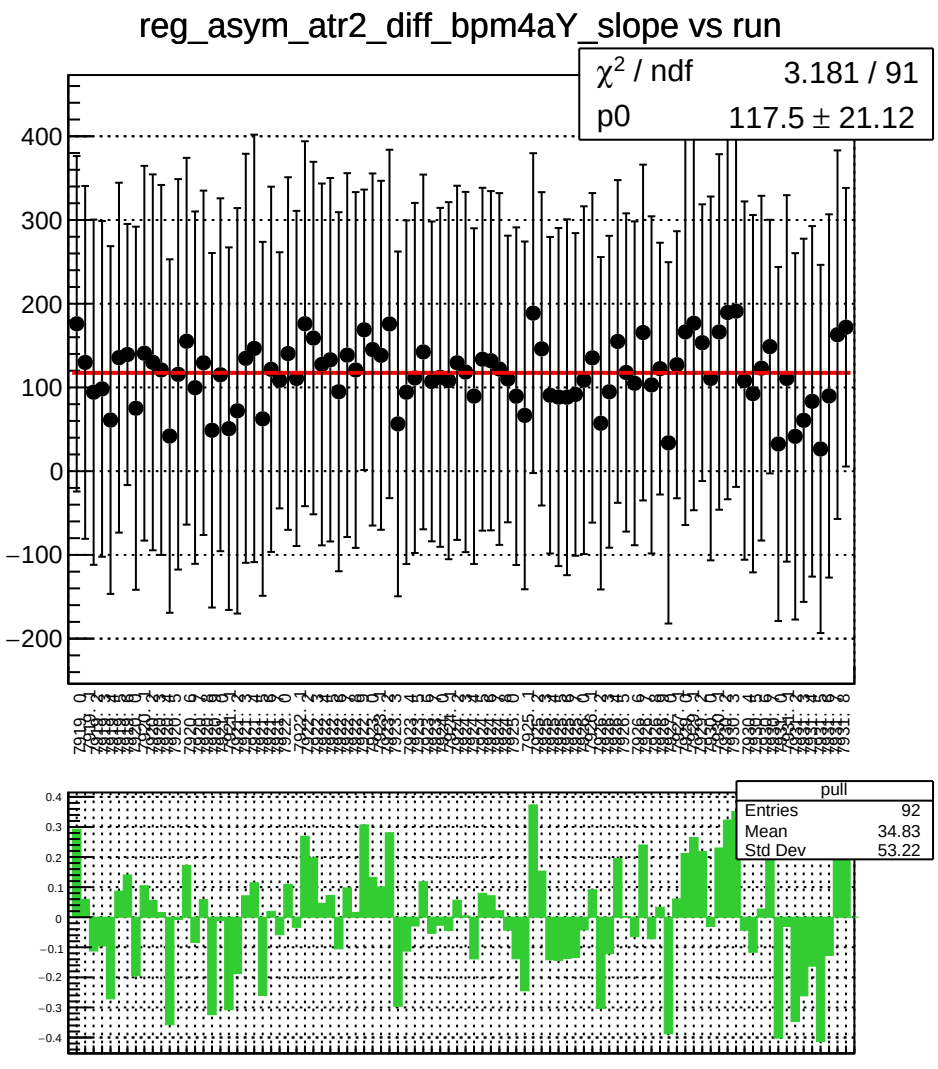

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 81.44 / 91
p0 15.18 ± 4.088
pull
Entries 92
Mean −1320
Std Dev 0
pull1D
Entries 92
Mean 0.001845
Std Dev 0.9409

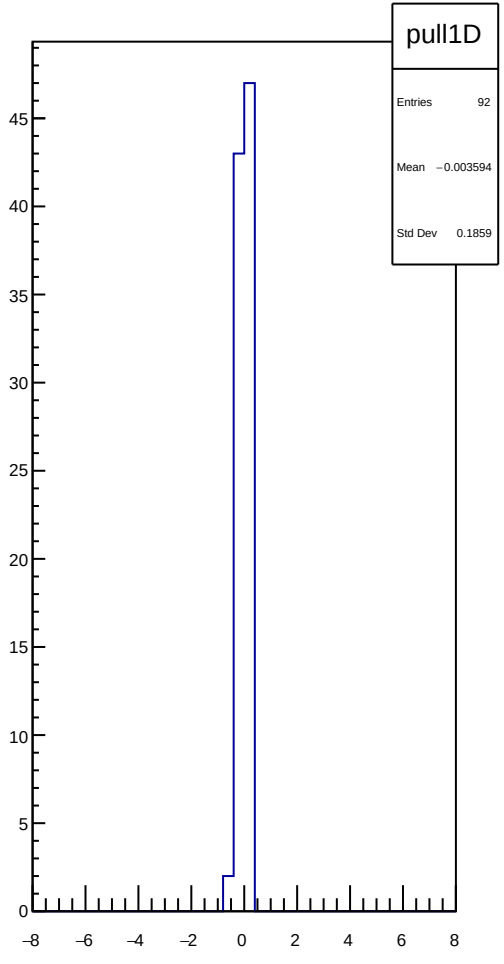

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 75.98 / 91
p0 13.54 ± 5.418
pull
Entries 92
Mean 960
Std Dev 0

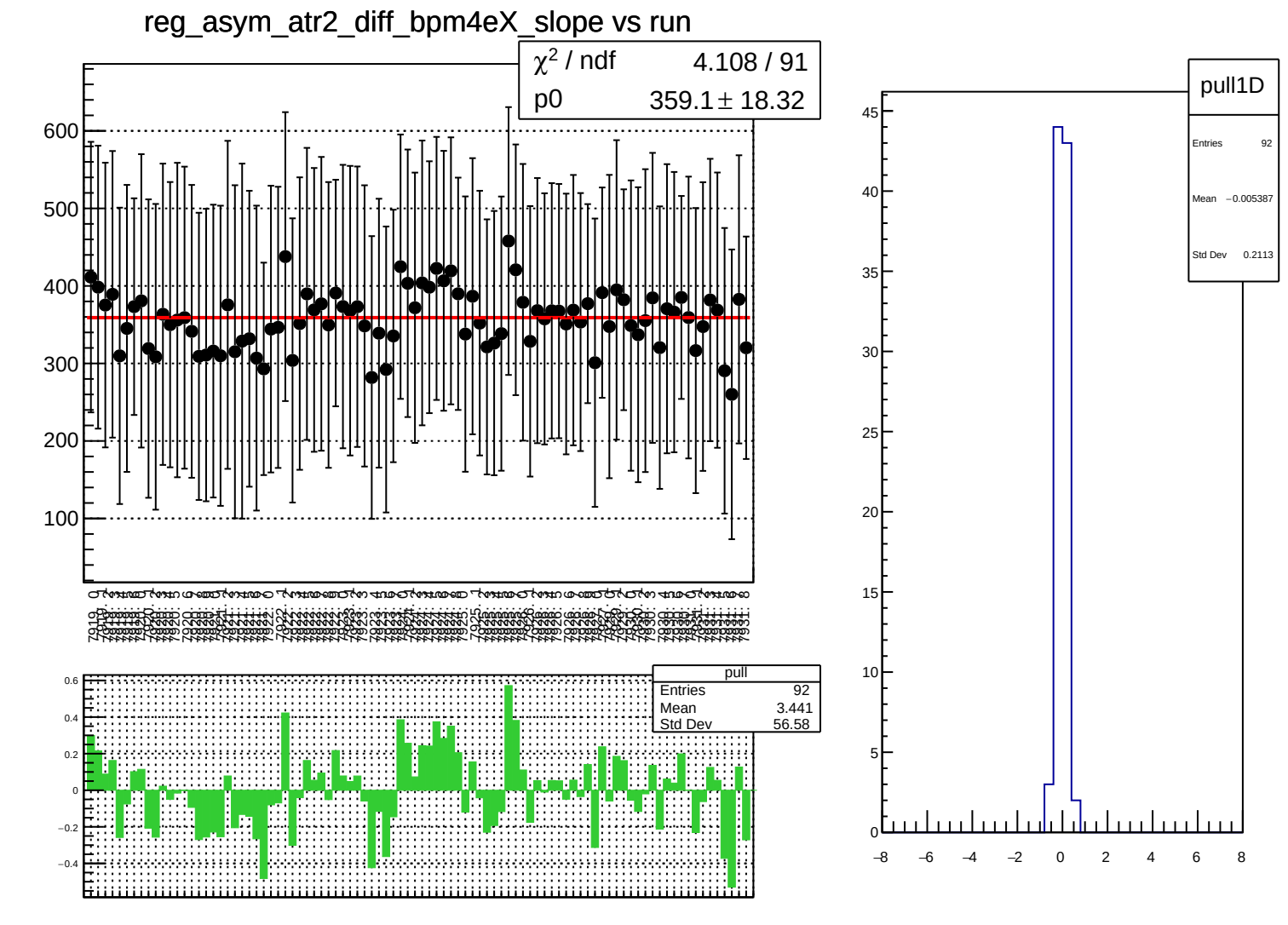

pull1D
Entries 92
Mean −0.00416
Std Dev 0.9088

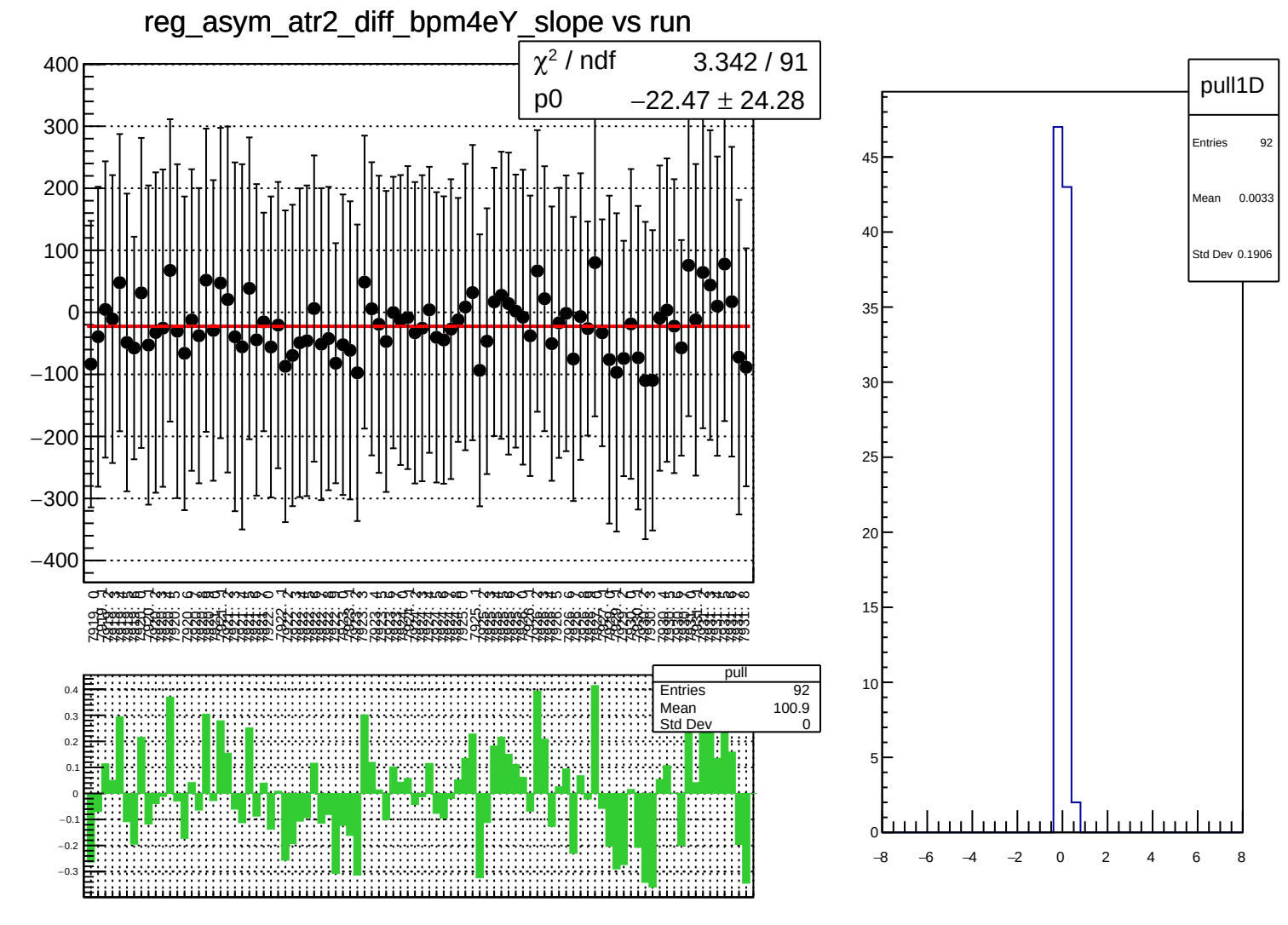

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 204.3 / 91
p0 −55.19 ± 0.1567
pull
Entries 92
Mean −391.2
Std Dev 0
pull1D
Entries 92
Mean −0.03442
Std Dev 1.49

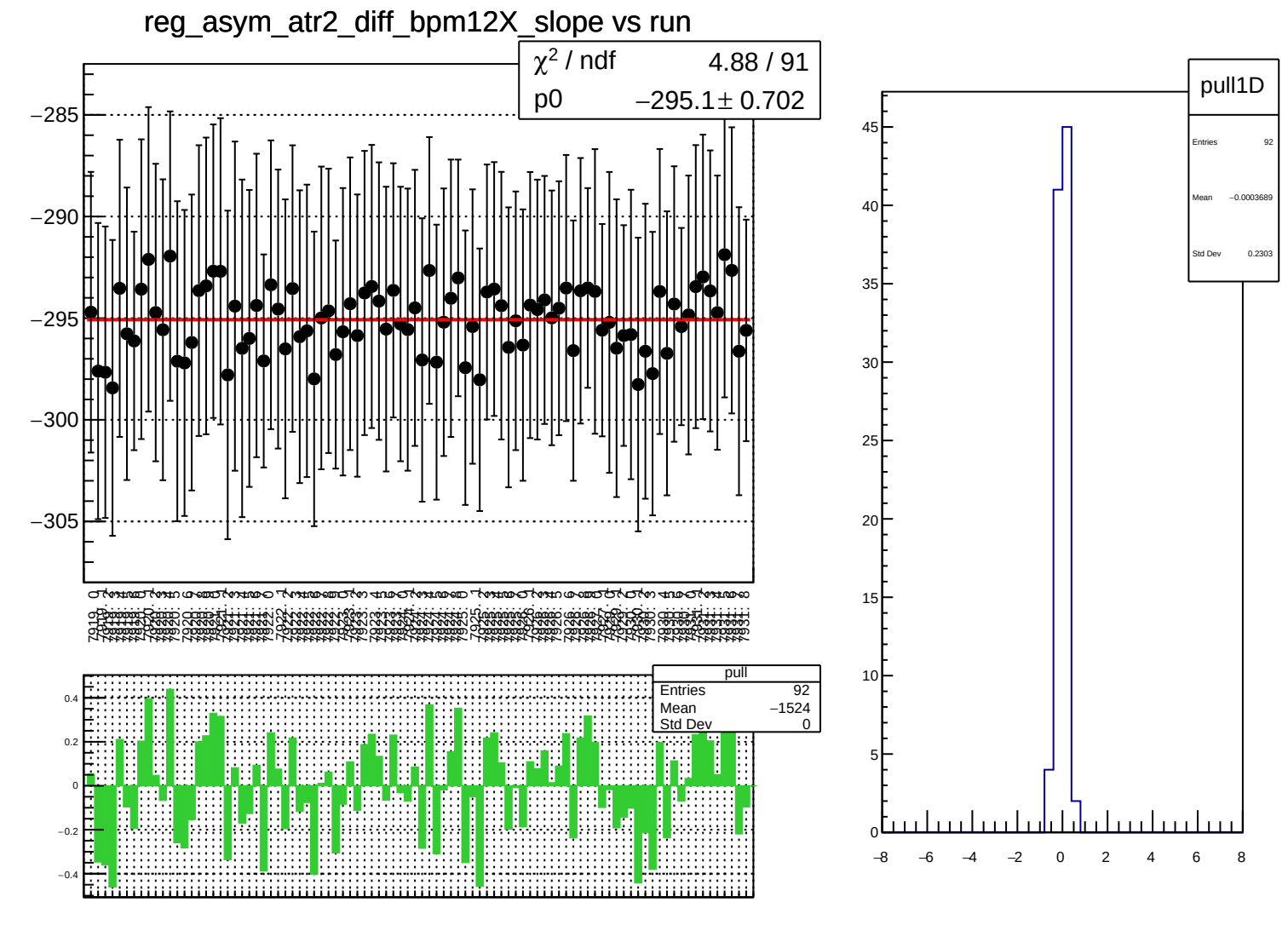

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 4.066 / 91
p0 −278.2 ± 20.48
pull
Entries 92
Mean 1.792
Std Dev 55.18
pull1D
Entries 92
Mean 0.005417
Std Dev 0.2102

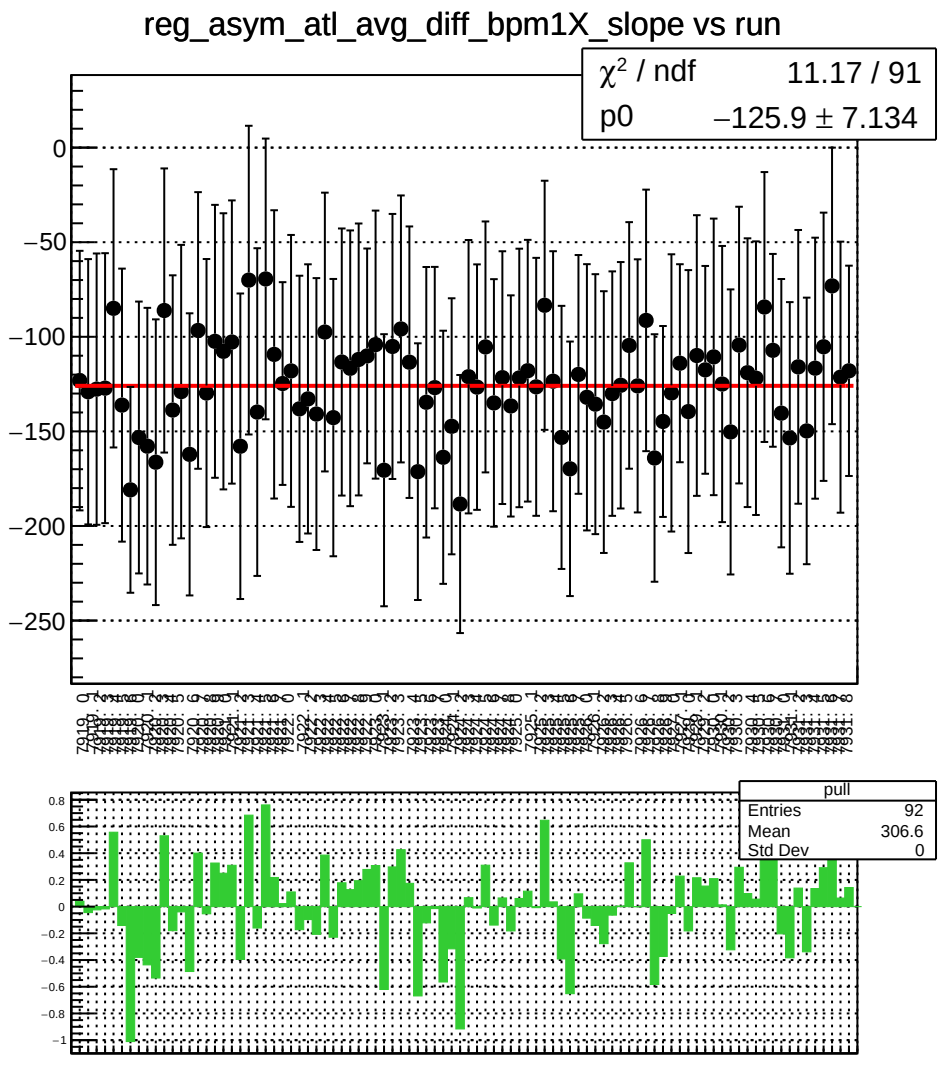

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 3.181 / 91
p0 117.5 ± 21.12
pull
Entries 92
Mean 34.83
Std Dev 53.22

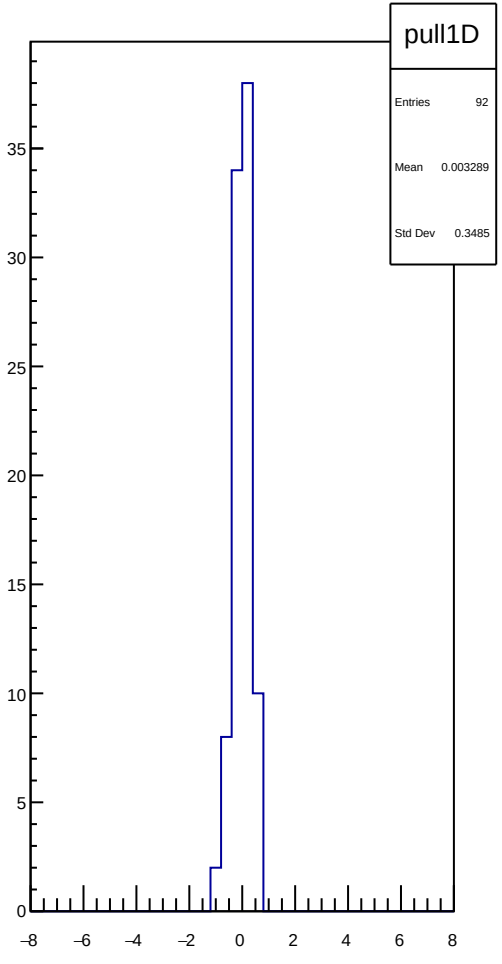

pull1D
Entries 92
Mean −0.003594
Std Dev 0.1859

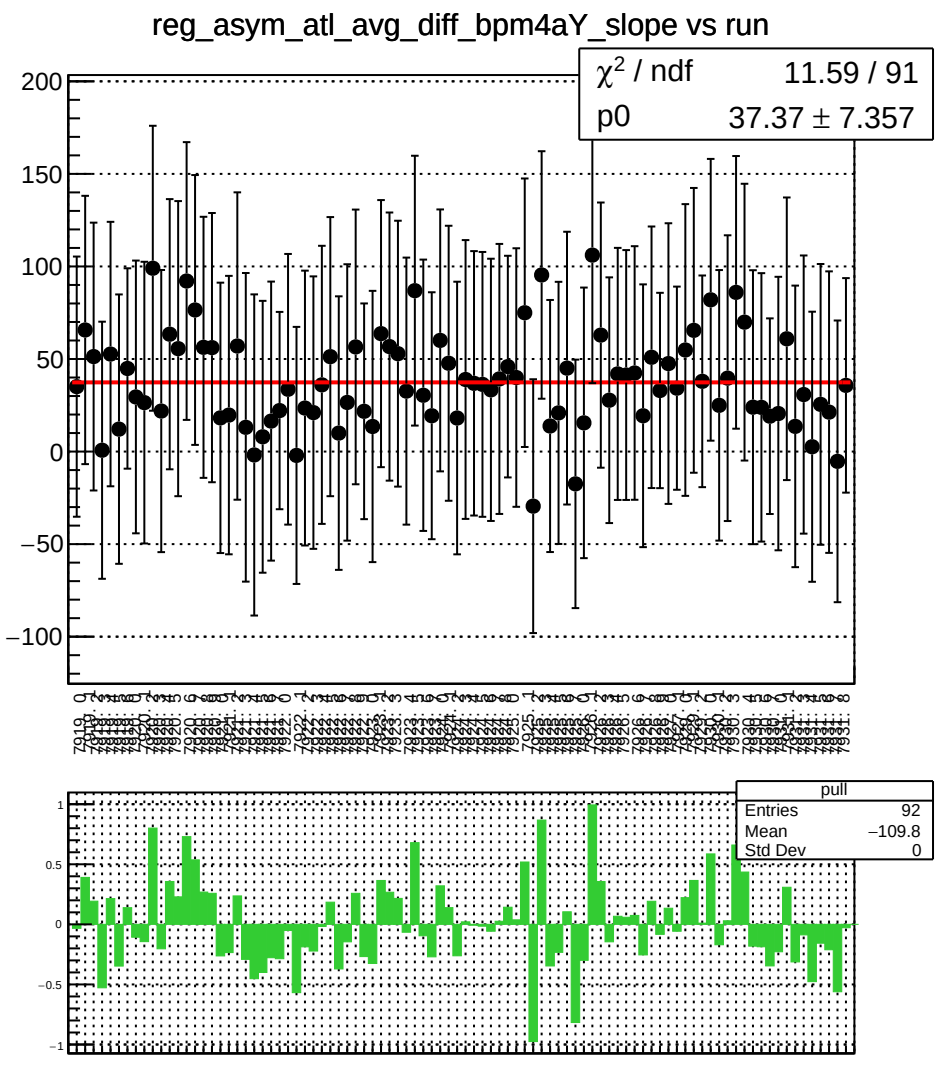

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 4.108 / 91
p0 359.1 ± 18.32
pull
Entries 92
Mean 3.441
Std Dev 56.58
pull1D
Entries 92
Mean −0.005387
Std Dev 0.2113

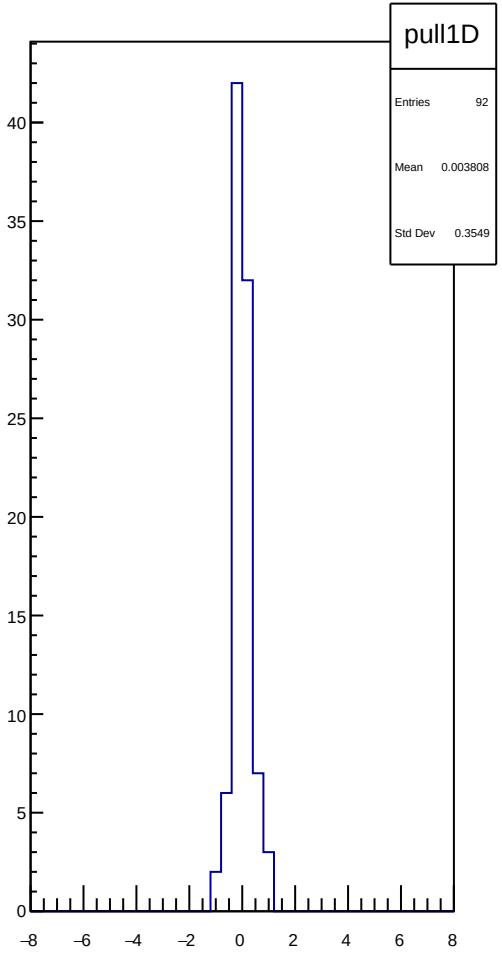

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 3.342 / 91
p0 −22.47 ± 24.28
pull
Entries 92
Mean 100.9
Std Dev 0
pull1D
Entries 92
Mean 0.0033
Std Dev 0.1906

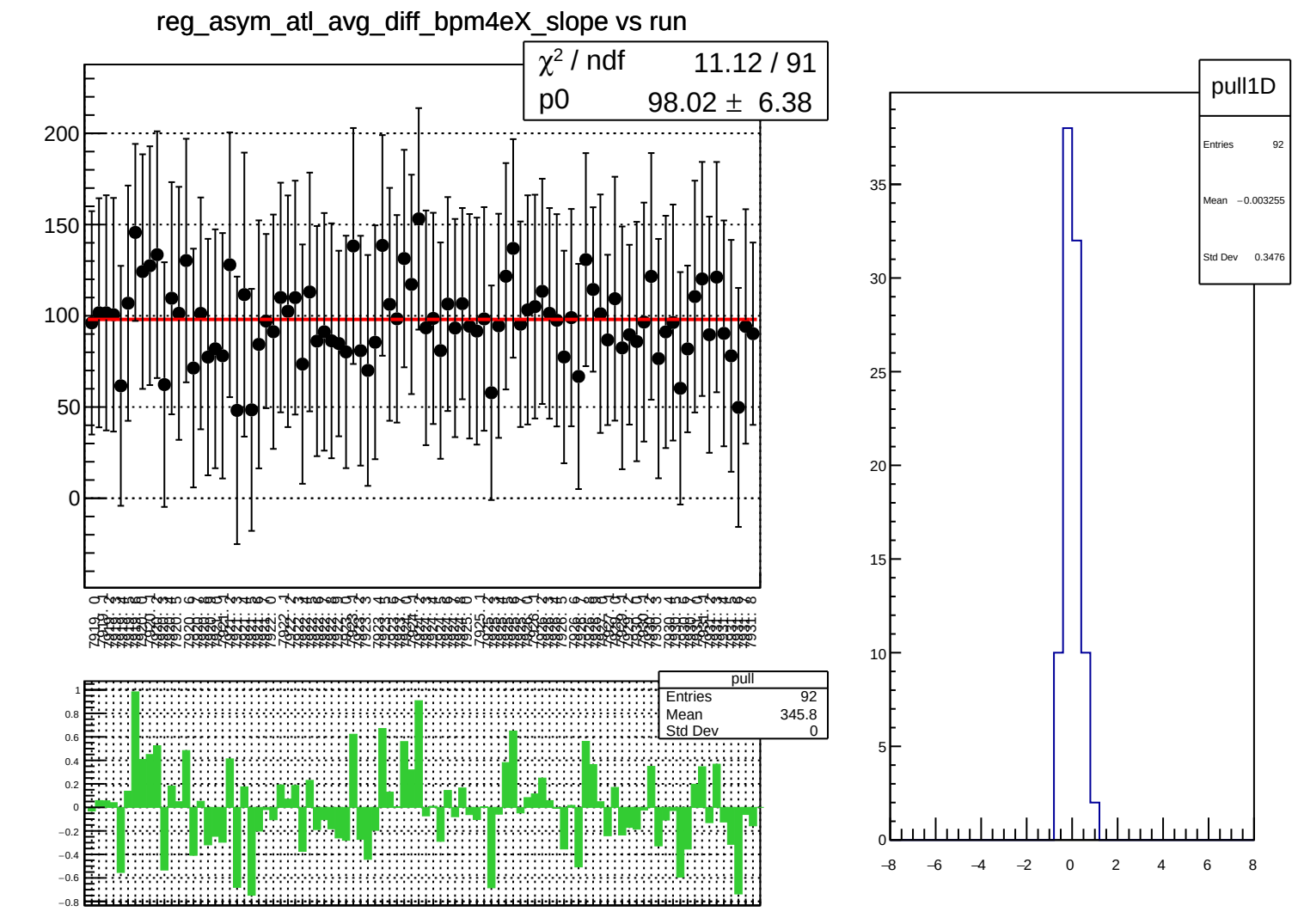

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 4.88 / 91
p0 −295.1± 0.702
−285
−290
−295
−300
−305
pull
Entries 92
Mean −1524
Std Dev 0
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 92
Mean −0.0003689
Std Dev 0.2303
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

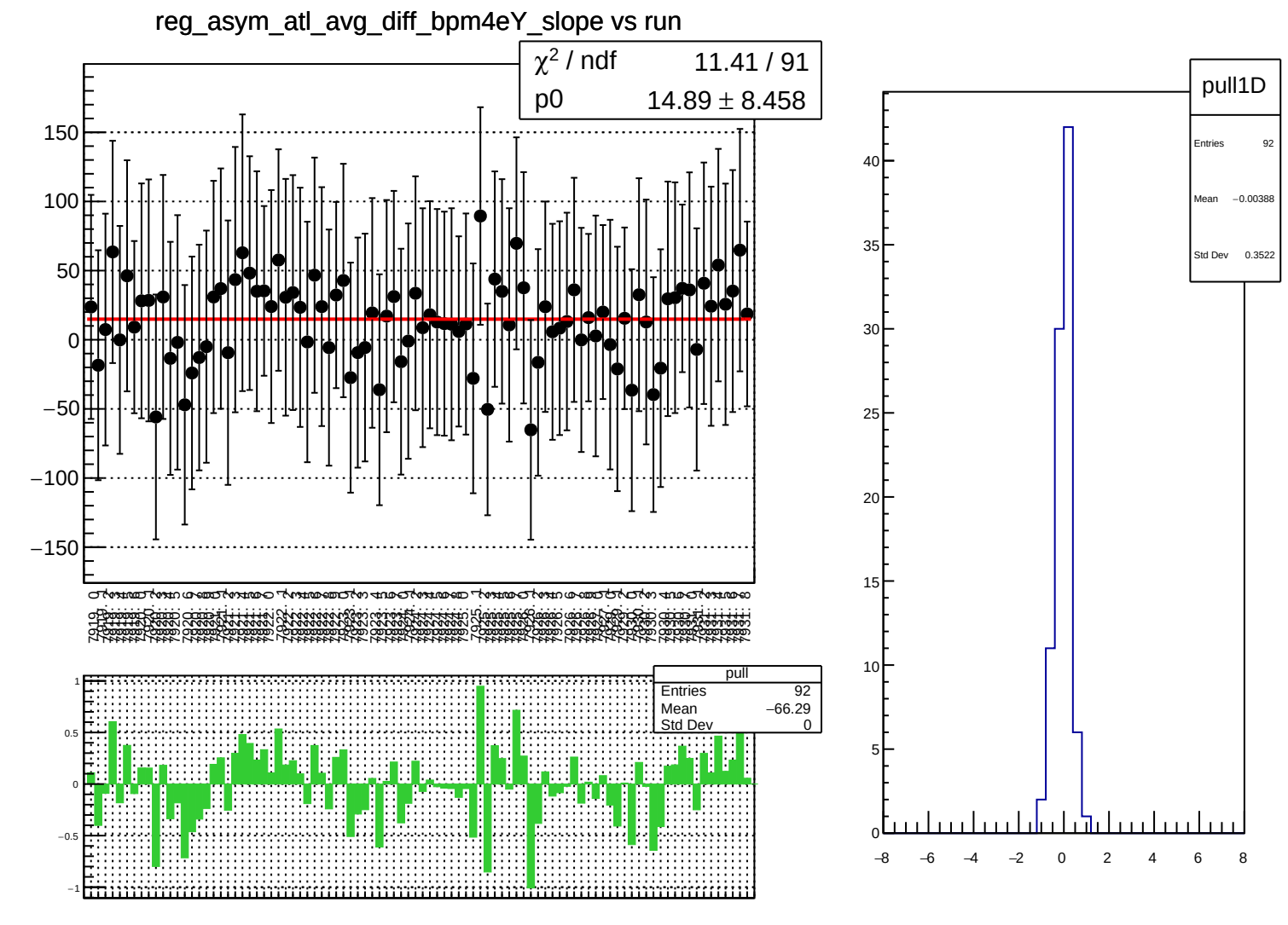

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 11.17 / 91
p0 −125.9 ± 7.134
pull
Entries 92
Mean 306.6
Std Dev 0

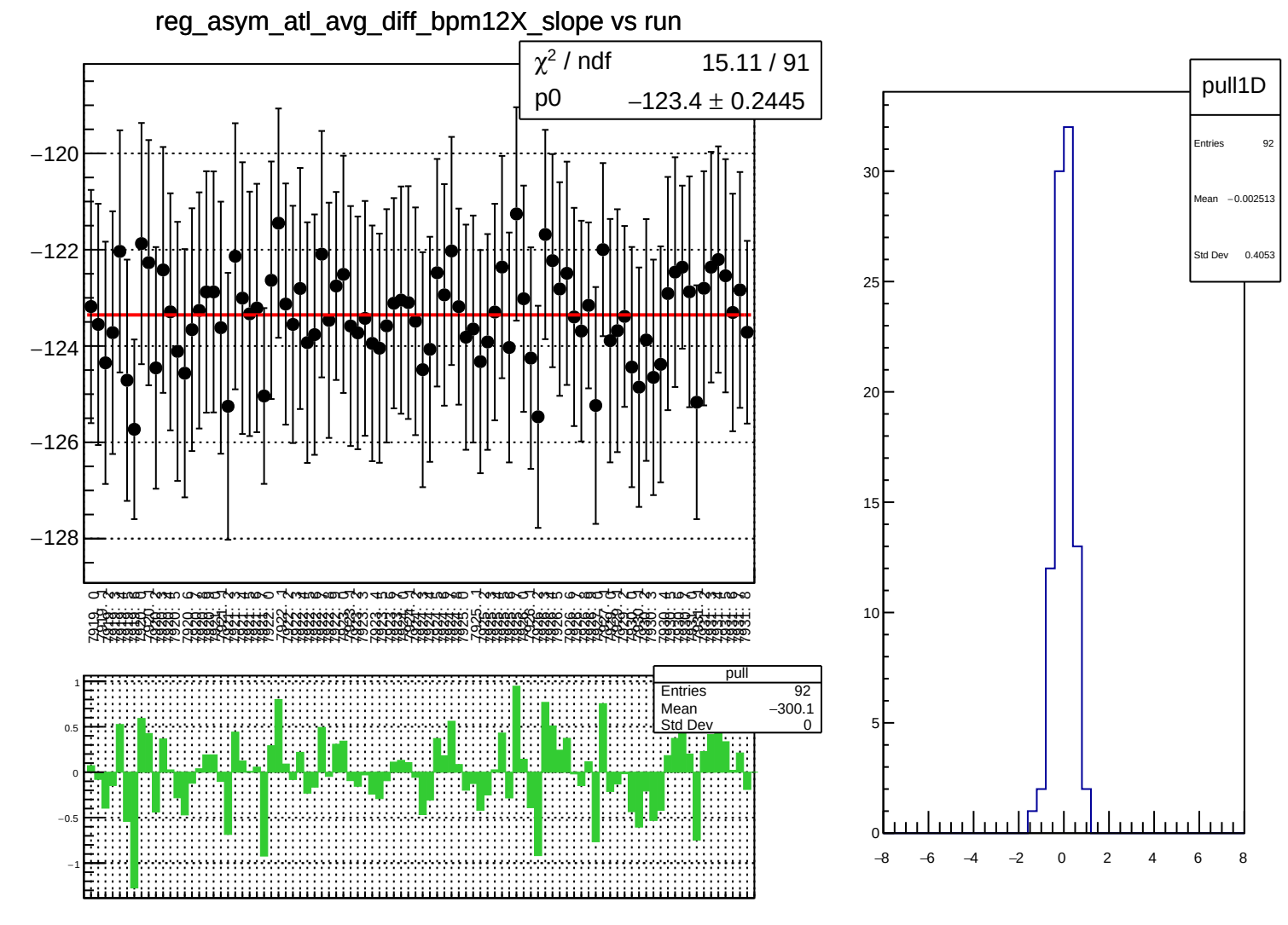

pull1D
Entries 92
Mean 0.003289
Std Dev 0.3485

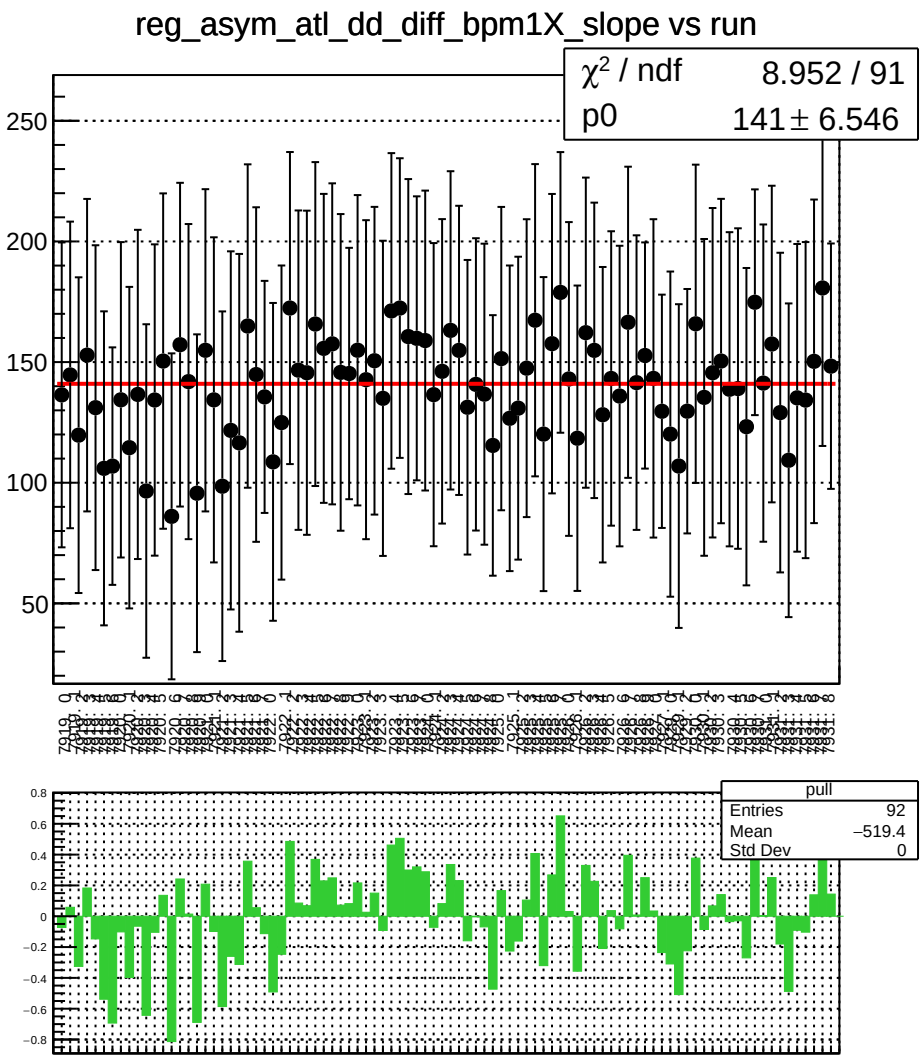

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.59 / 91
p0 37.37 ± 7.357
pull
Entries 92
Mean −109.8
Std Dev 0

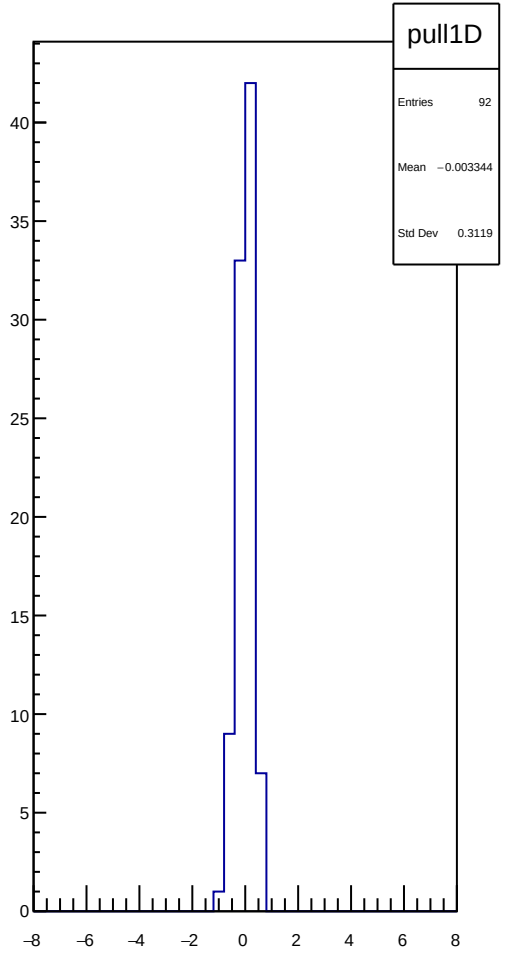

pull1D
Entries 92
Mean 0.003808
Std Dev 0.3549

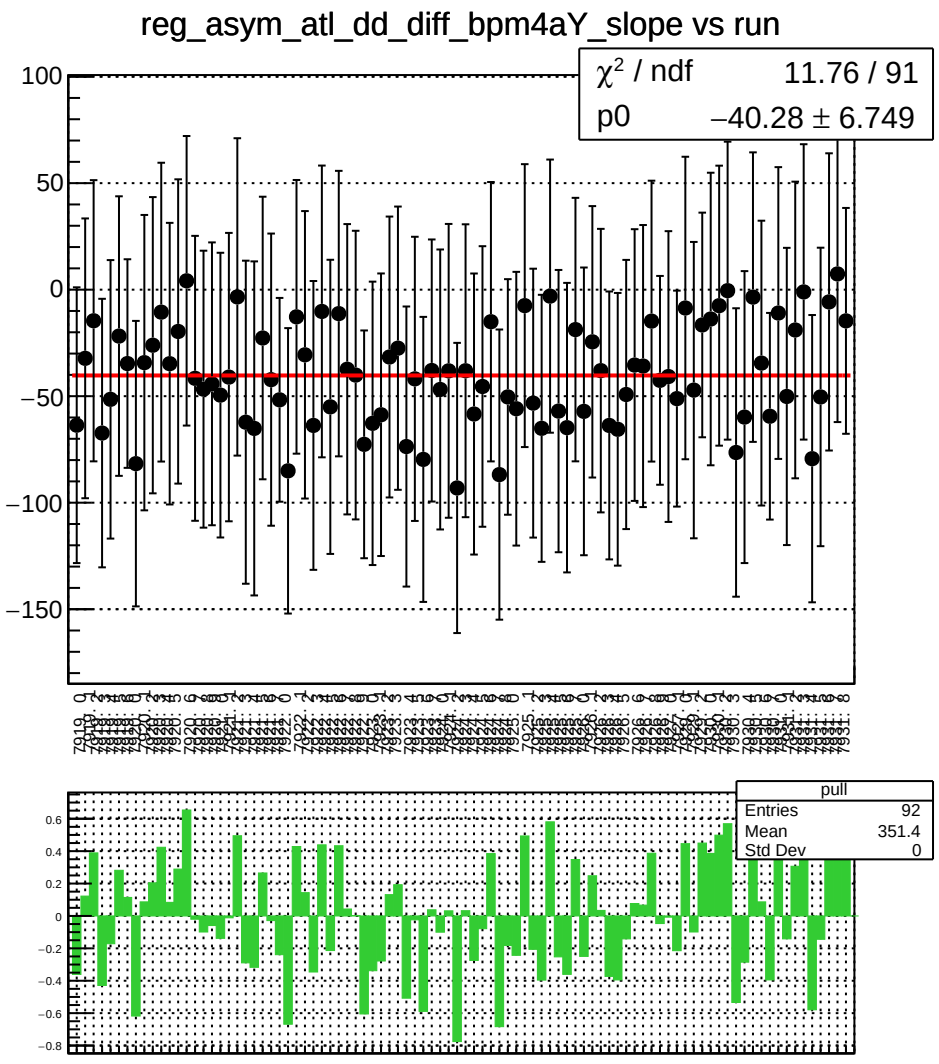

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 11.12 / 91
p0 98.02 ± 6.38
200
150
100
50
0
pull
Entries 92
Mean 345.8
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 92
Mean −0.003255
Std Dev 0.3476
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

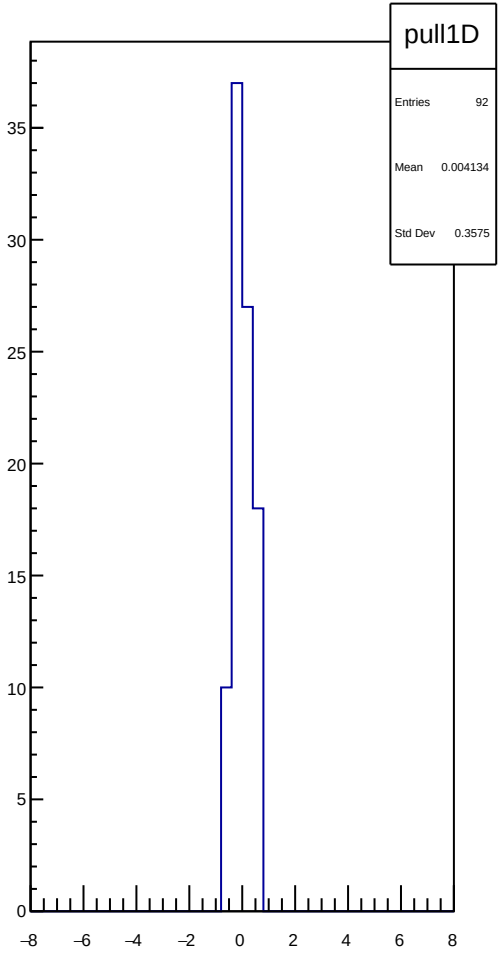

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 11.41 / 91
p0 14.89 ± 8.458
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean −66.29
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 92
Mean −0.00388
Std Dev 0.3522
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

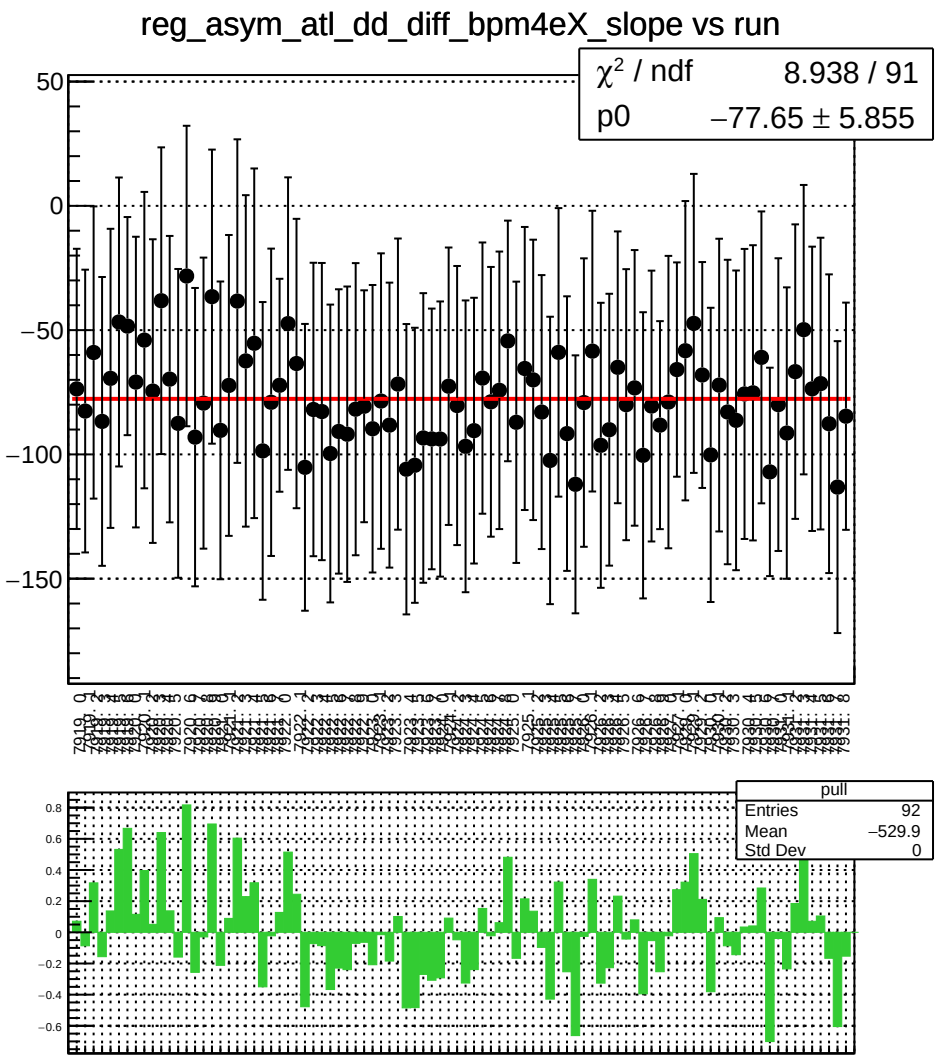

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 15.11 / 91
p0 −123.4 ± 0.2445
−120
−122
−124
−126
−128
pull
Entries 92
Mean −300.1
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 92
Mean −0.002513
Std Dev 0.4053
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

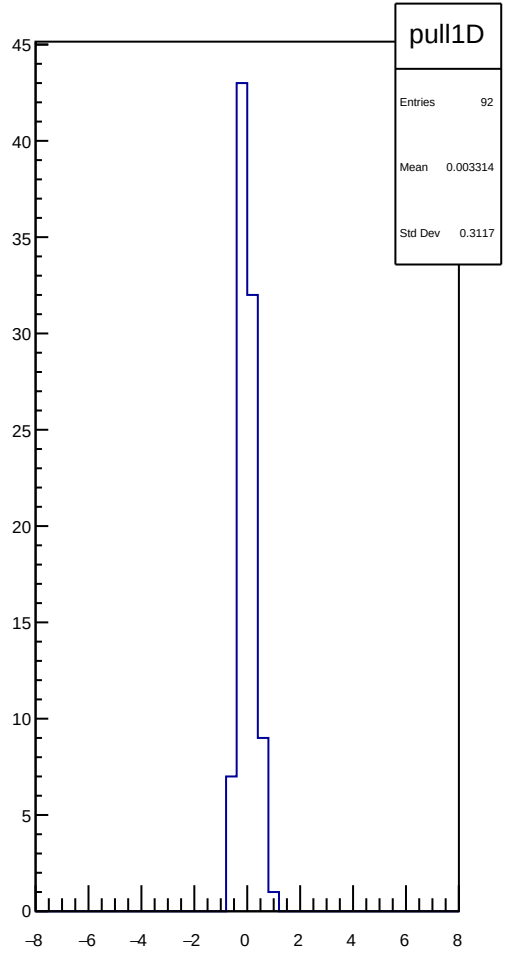

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 8.952 / 91
p0 141 ± 6.546
250
200
150
100
50
pull
Entries 92
Mean −519.4
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

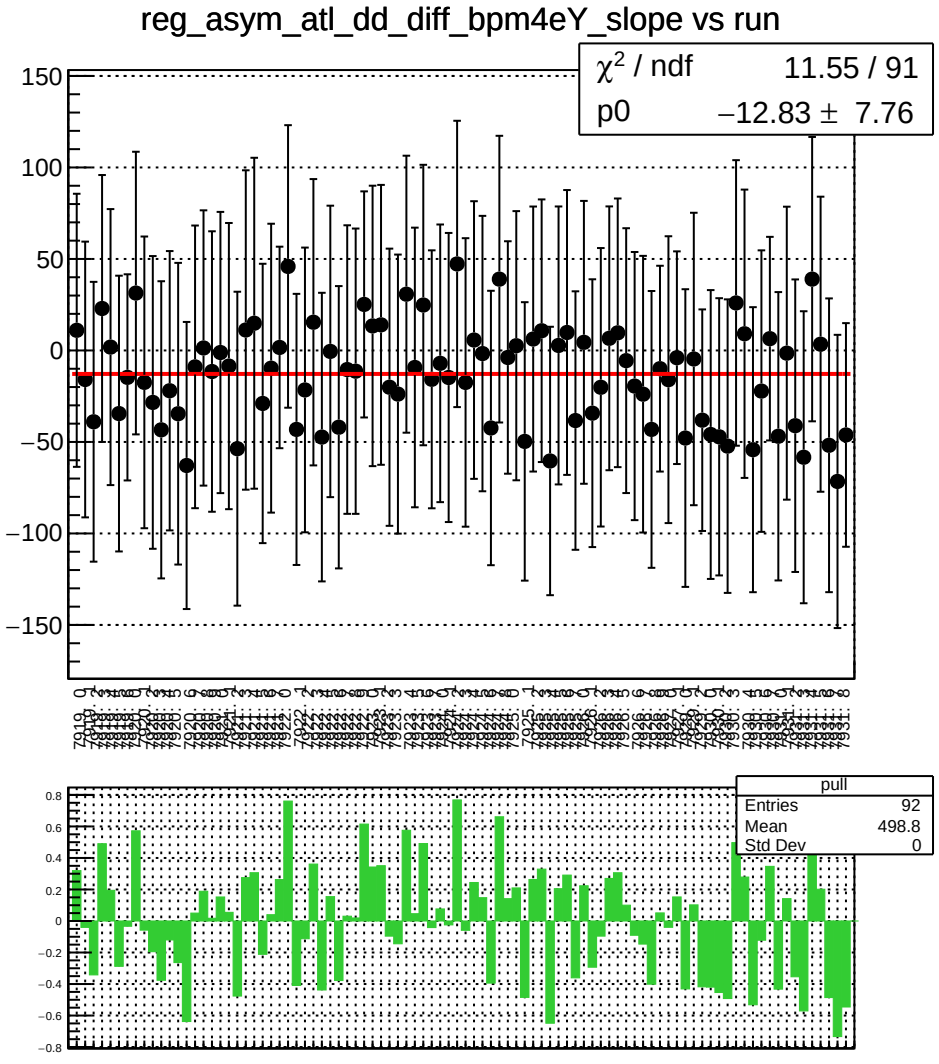

pull1D
Entries 92
Mean −0.003344
Std Dev 0.3119
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

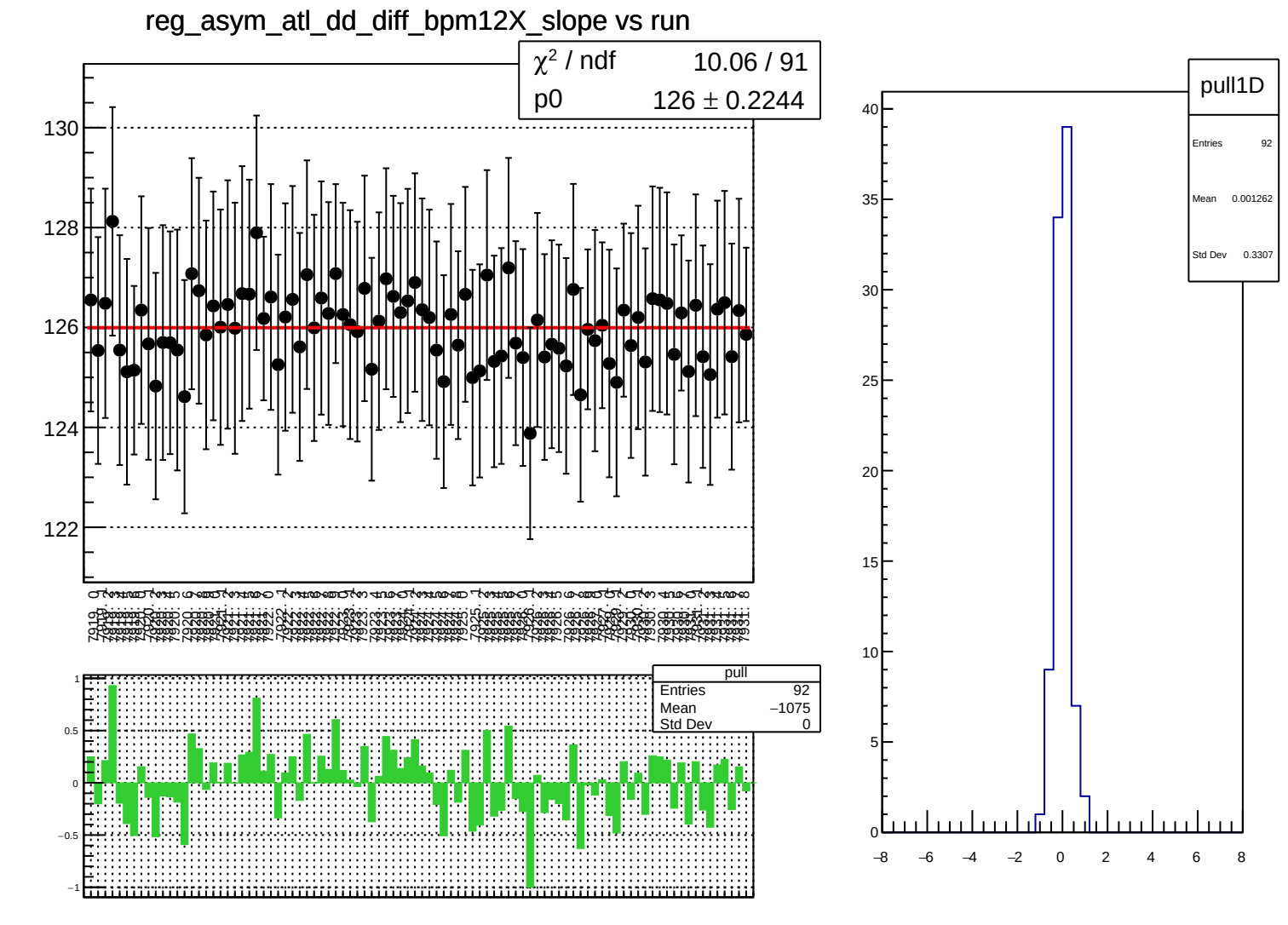

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.76 / 91
p0 −40.28 ± 6.749
pull
Entries 92
Mean 351.4
Std Dev 0

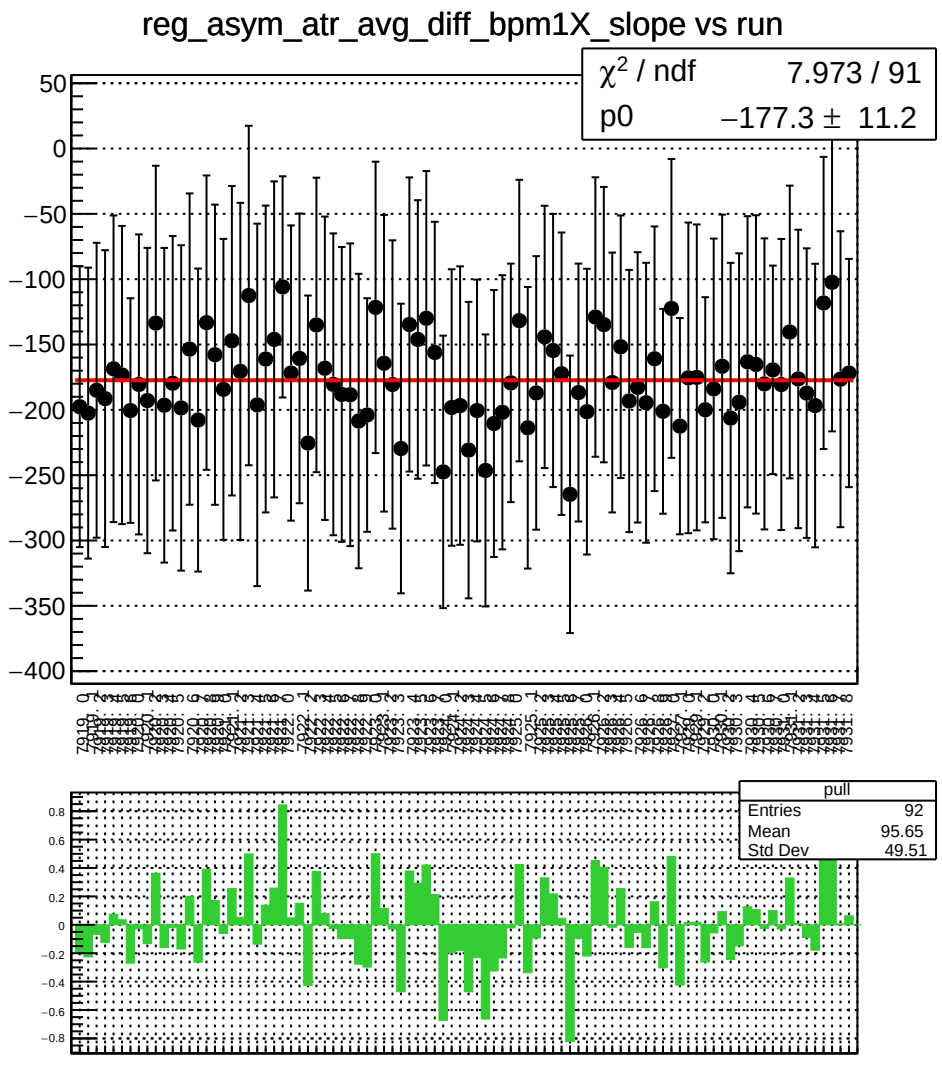

pull1D
Entries 92
Mean 0.004134
Std Dev 0.3575

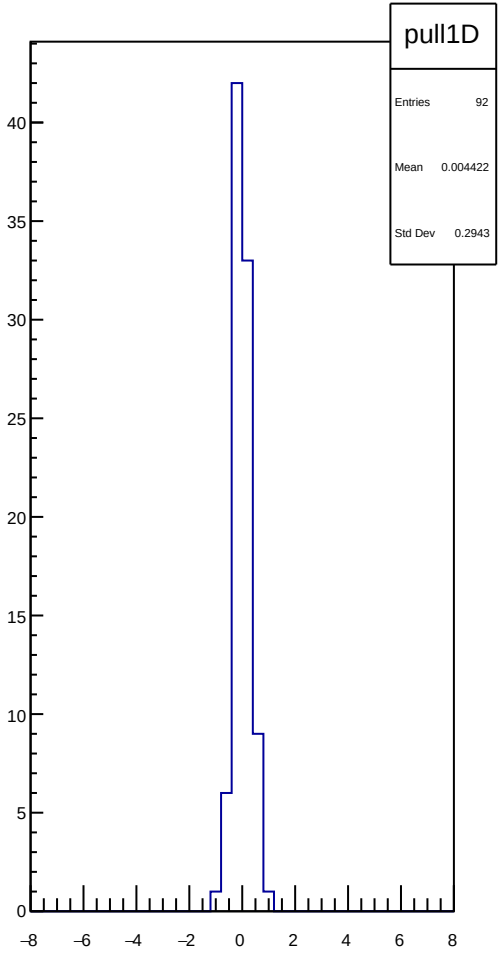

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.938 / 91
p0 −77.65 ± 5.855
50
0
−50
−100
−150
pull
Entries 92
Mean −529.9
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

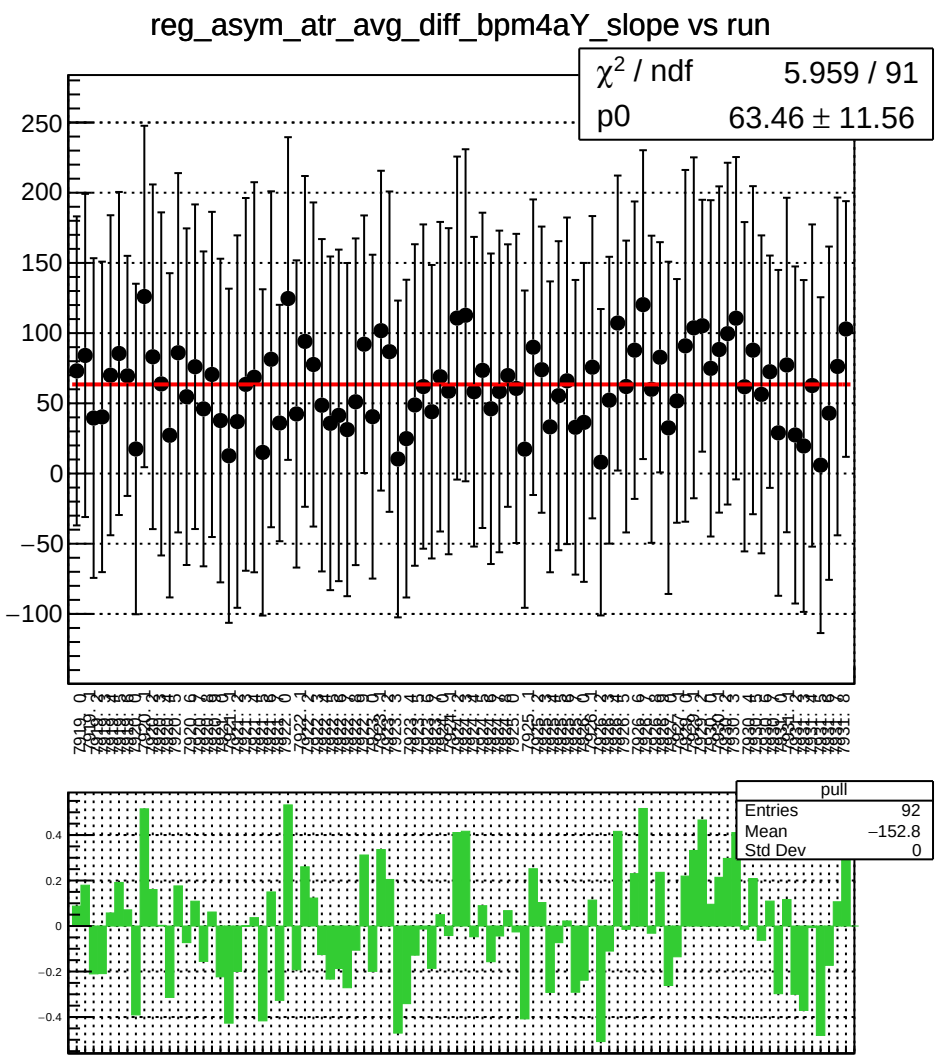

pull1D
Entries 92
Mean 0.003314
Std Dev 0.3117
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

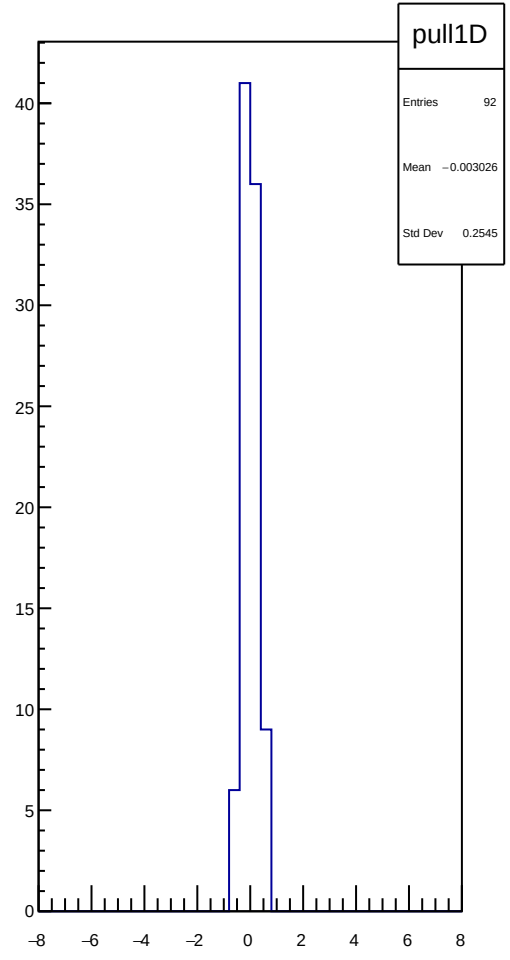

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.55 / 91
p0 −12.83 ± 7.76
pull
Entries 92
Mean 498.8
Std Dev 0
pull1D
Entries 92
Mean −0.003709
Std Dev 0.3543

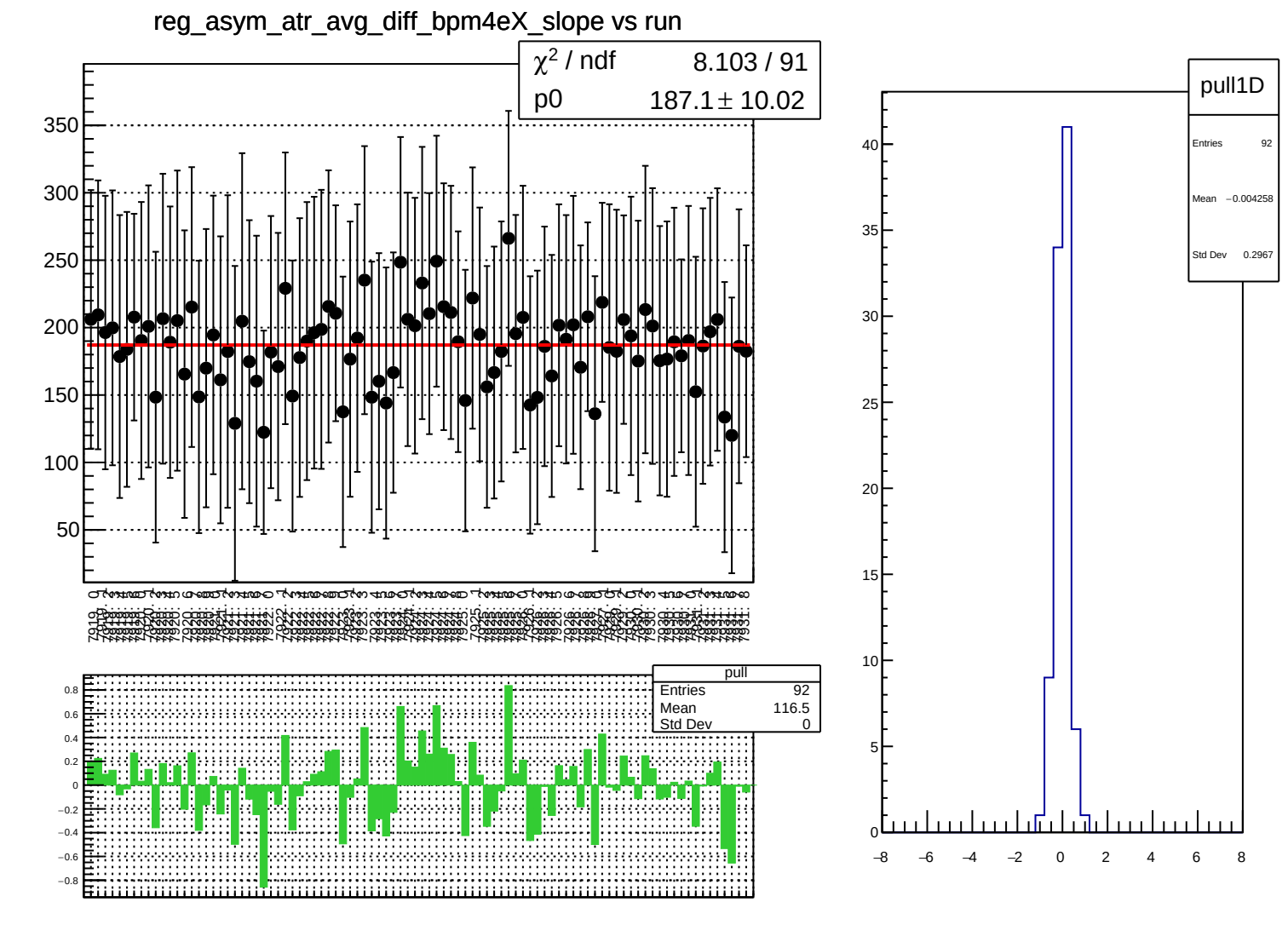

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 10.06 / 91
p0 126 ± 0.2244
130
128
126
124
122
pull
Entries 92
Mean −1075
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 92
Mean 0.001262
Std Dev 0.3307
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

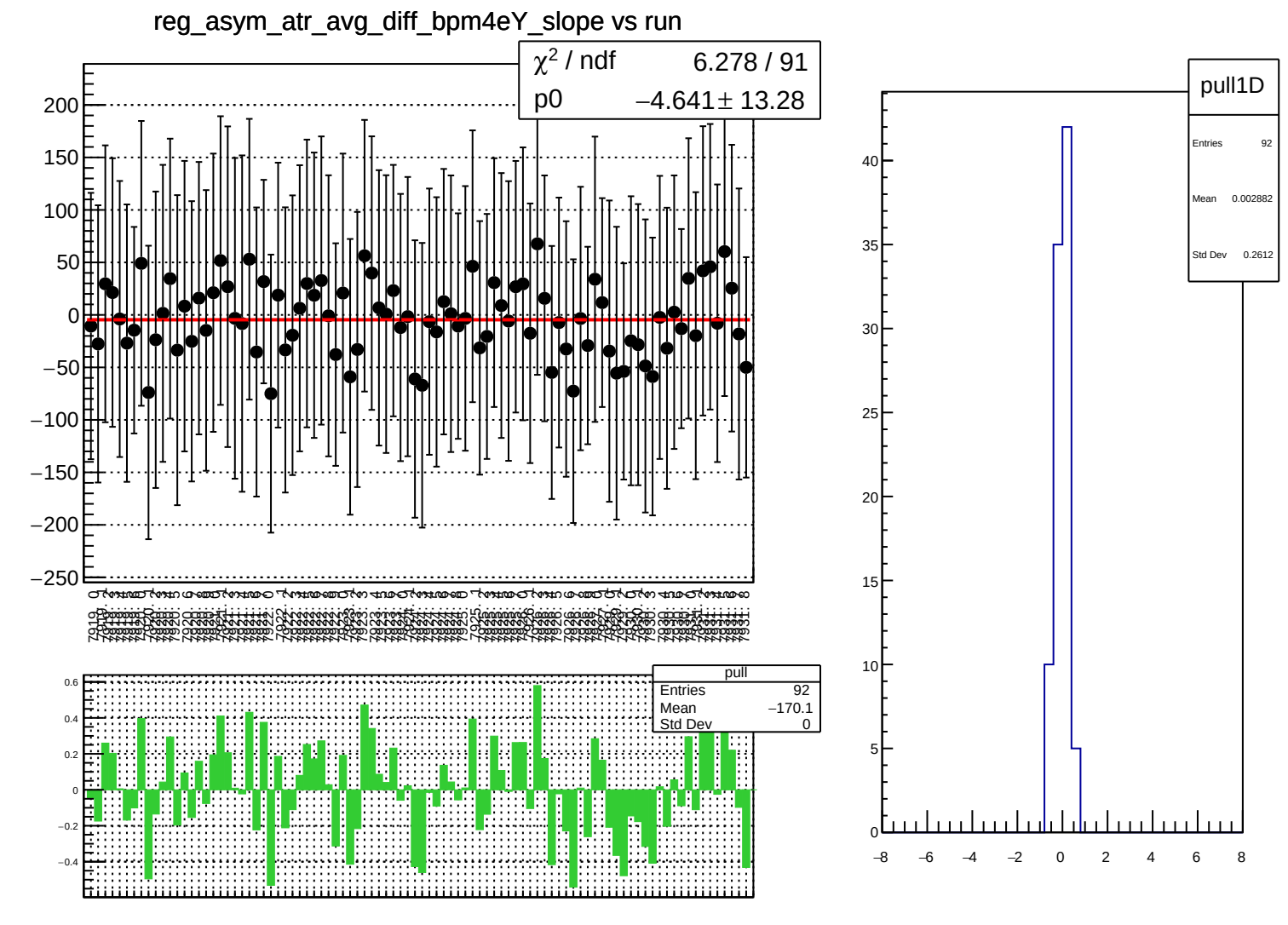

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 7.973 / 91
p0 −177.3 ± 11.2
pull
Entries 92
Mean 95.65
Std Dev 49.51

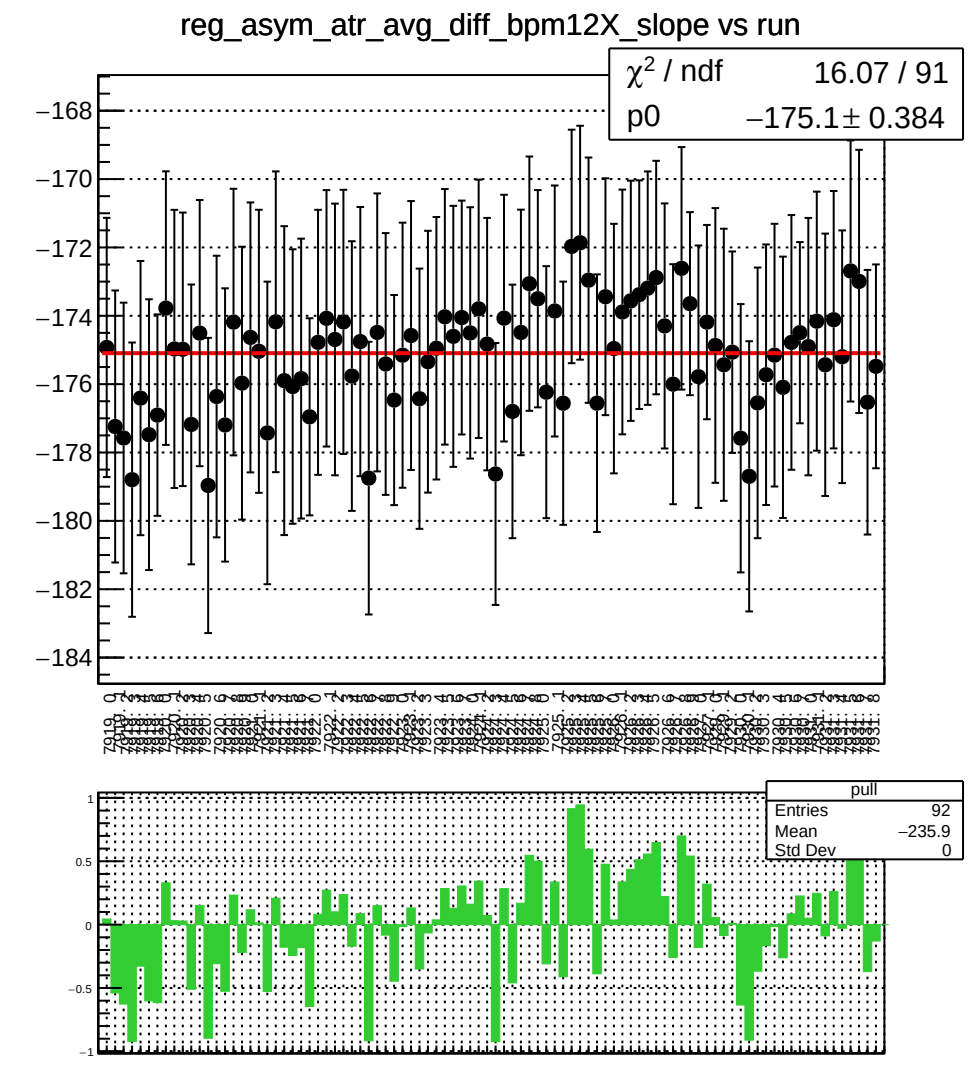

pull1D
Entries 92
Mean 0.004422
Std Dev 0.2943

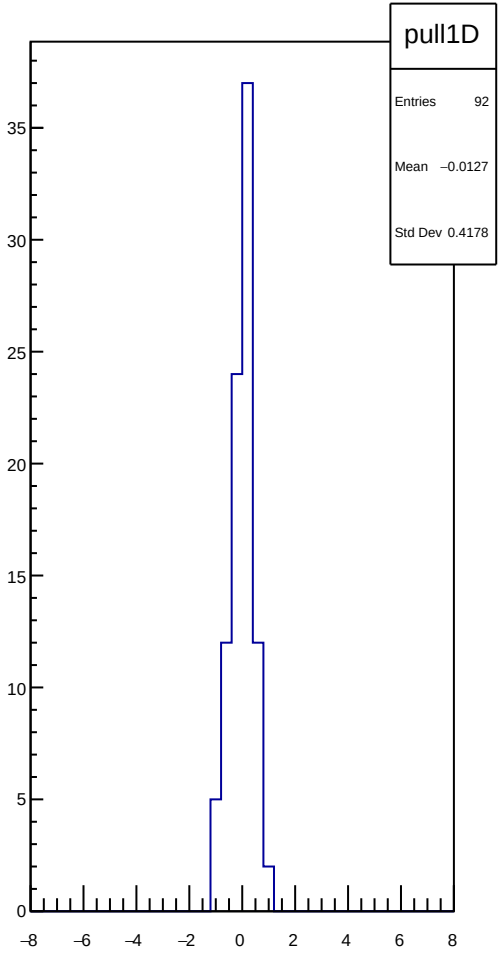

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.959 / 91
p0 63.46 ± 11.56
pull
Entries 92
Mean −152.8
Std Dev 0

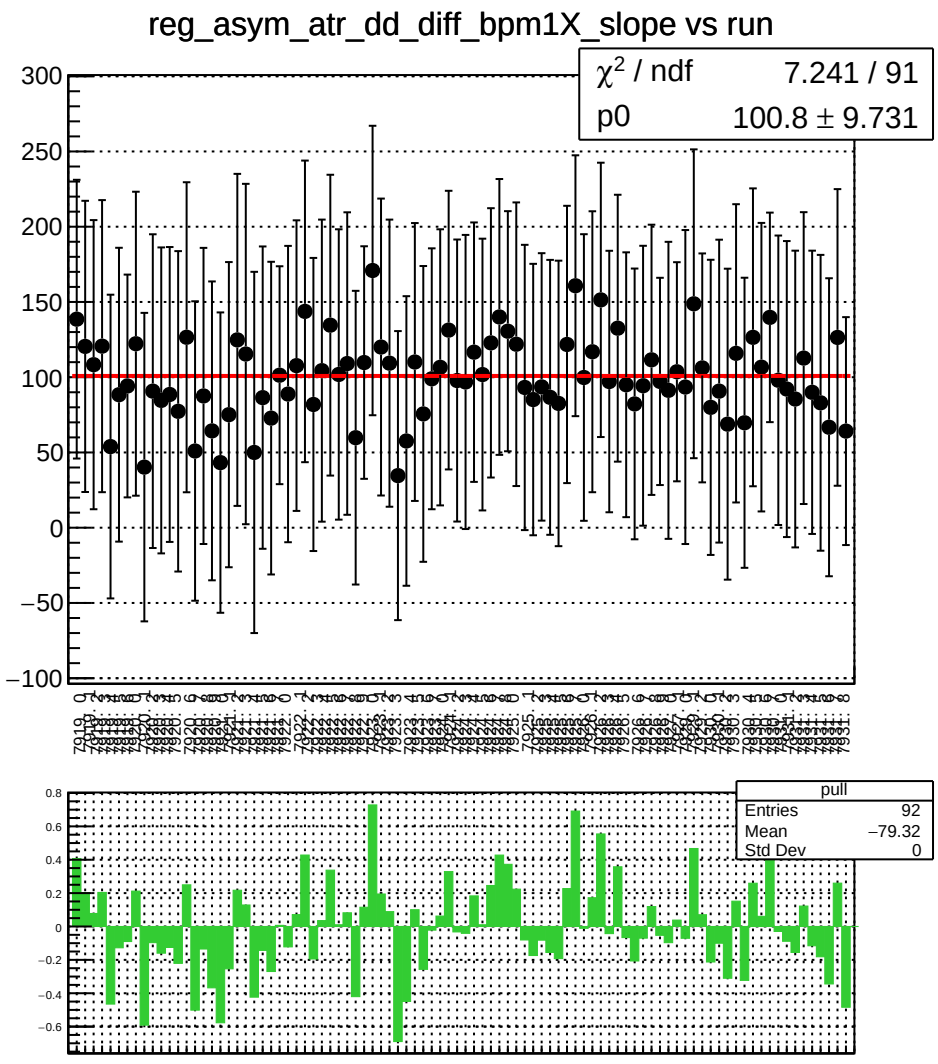

pull1D
Entries 92
Mean −0.003026
Std Dev 0.2545

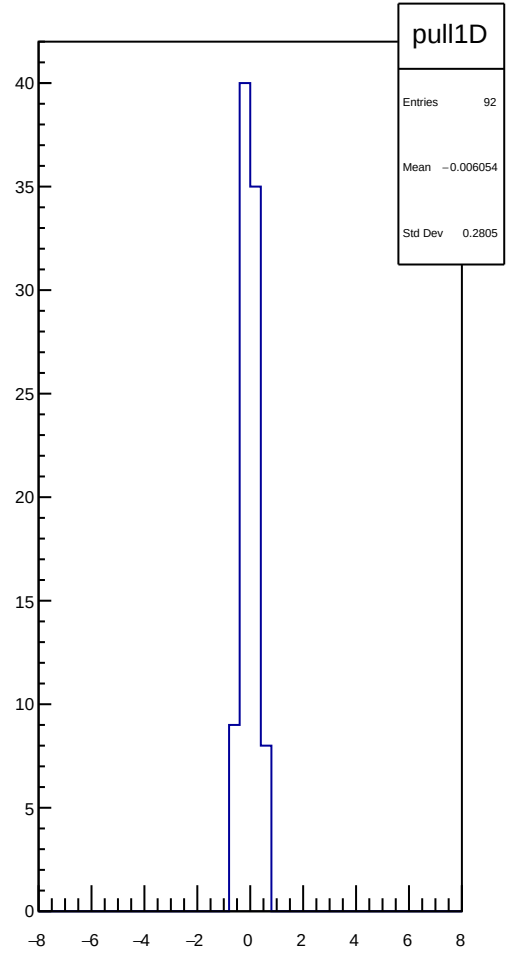

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 8.103 / 91
p0 187.1 ± 10.02
pull
Entries 92
Mean 116.5
Std Dev 0
pull1D
Entries 92
Mean −0.004258
Std Dev 0.2967

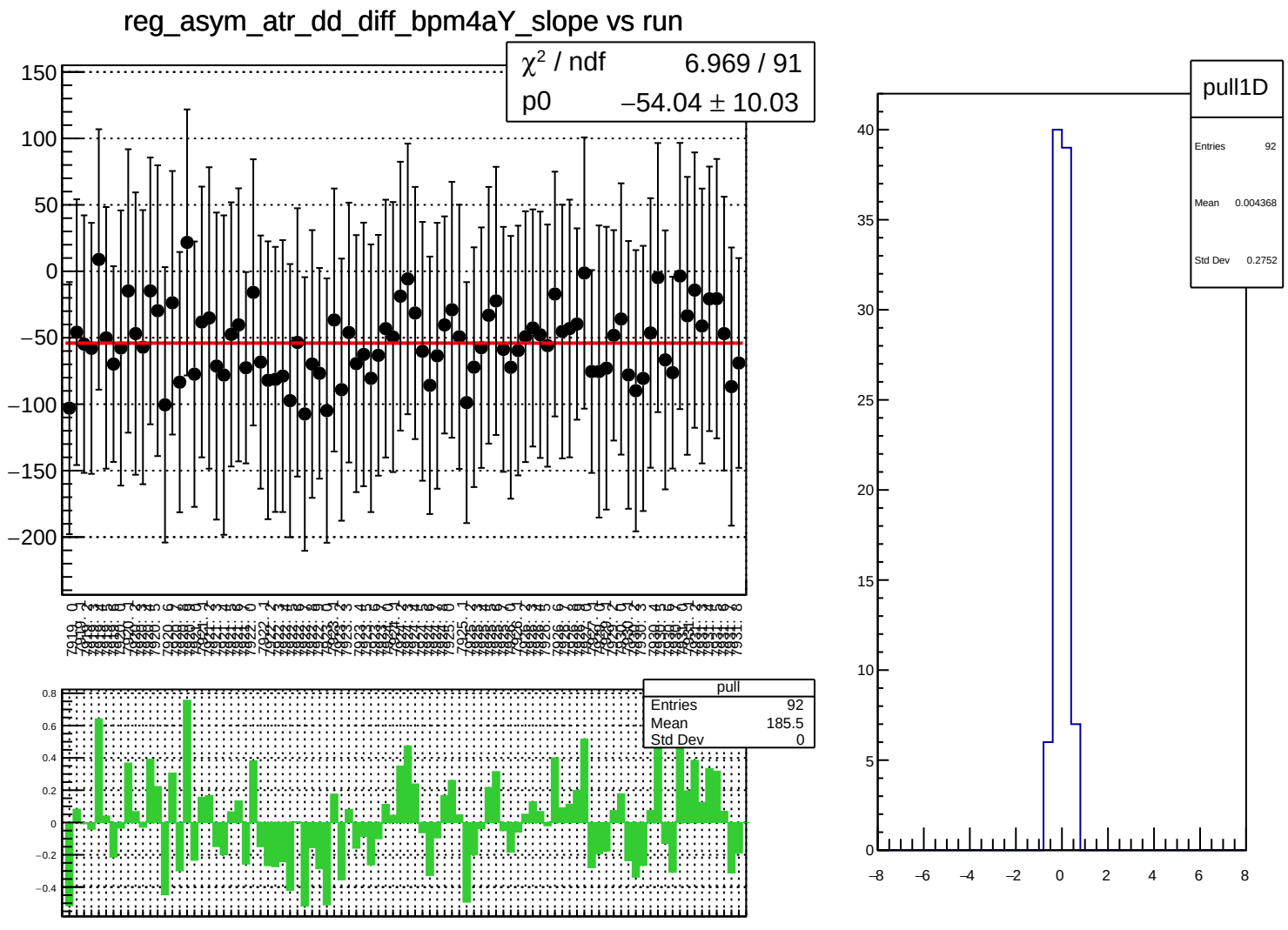

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.278 / 91
p0 −4.641 ± 13.28
pull
Entries 92
Mean −170.1
Std Dev 0
pull1D
Entries 92
Mean 0.002882
Std Dev 0.2612

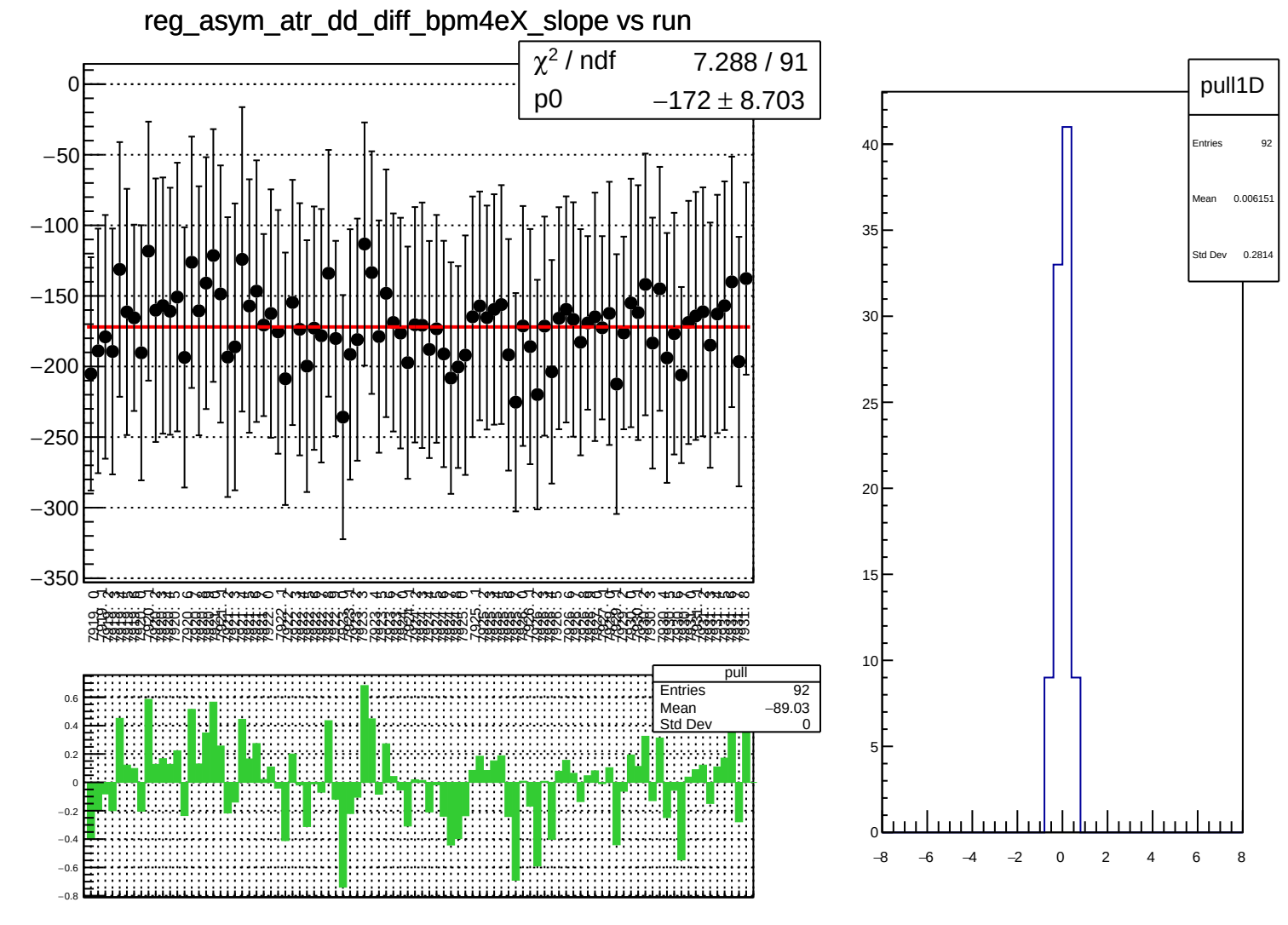

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 16.07 / 91
p0 −175.1± 0.384
pull
Entries 92
Mean −235.9
Std Dev 0

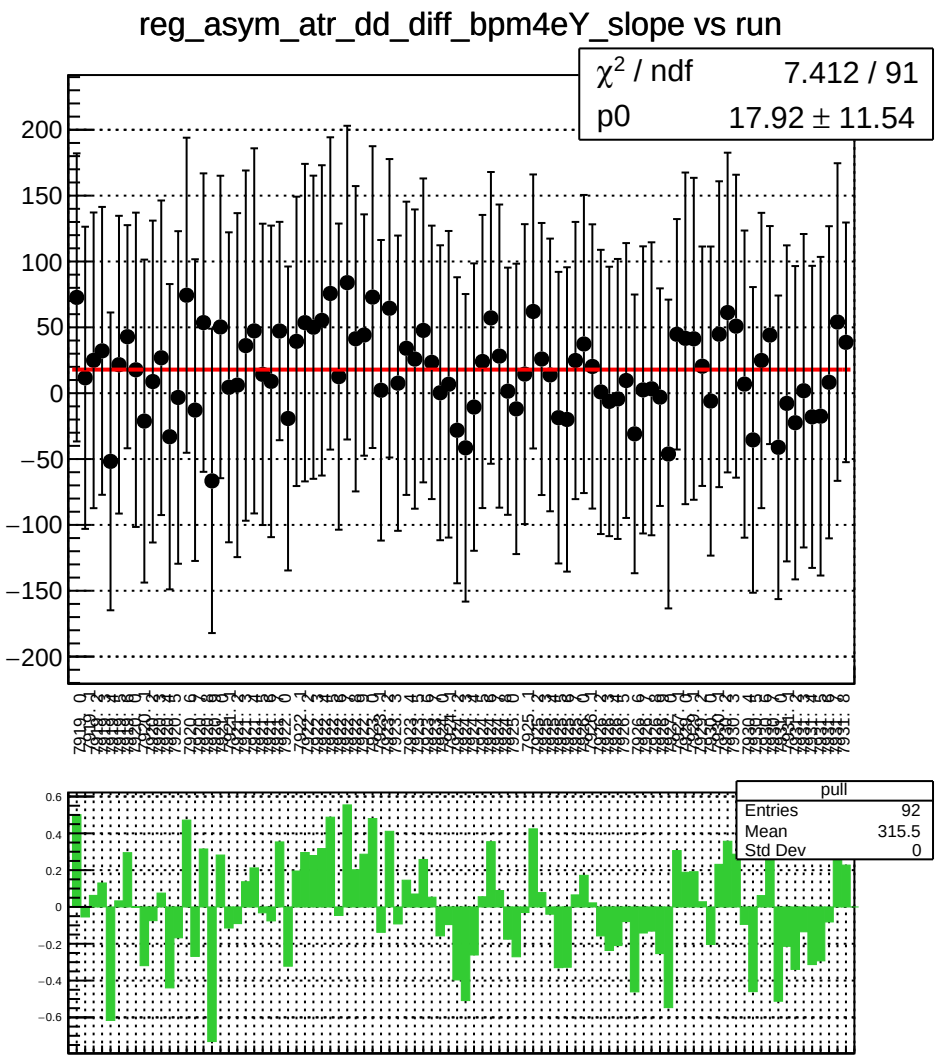

pull1D
Entries 92
Mean −0.0127
Std Dev 0.4178

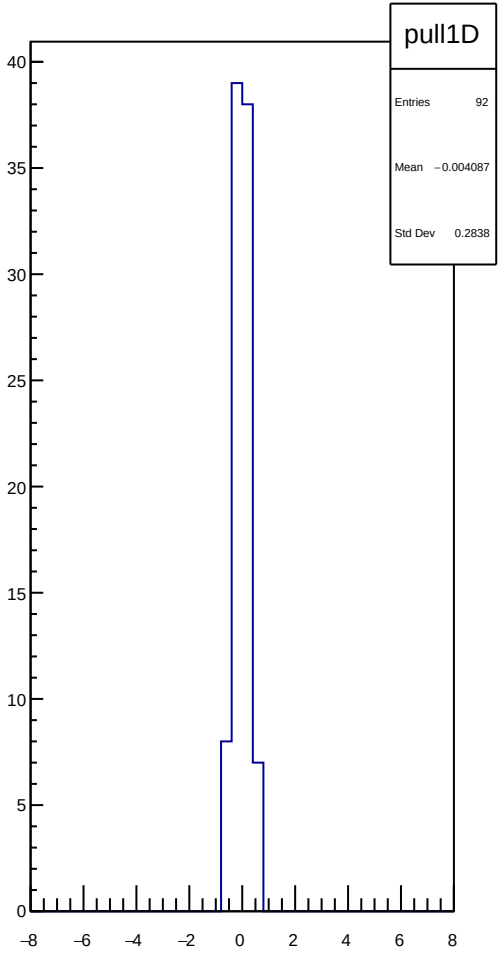

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 7.241 / 91
p0 100.8 ± 9.731
pull
Entries 92
Mean −79.32
Std Dev 0

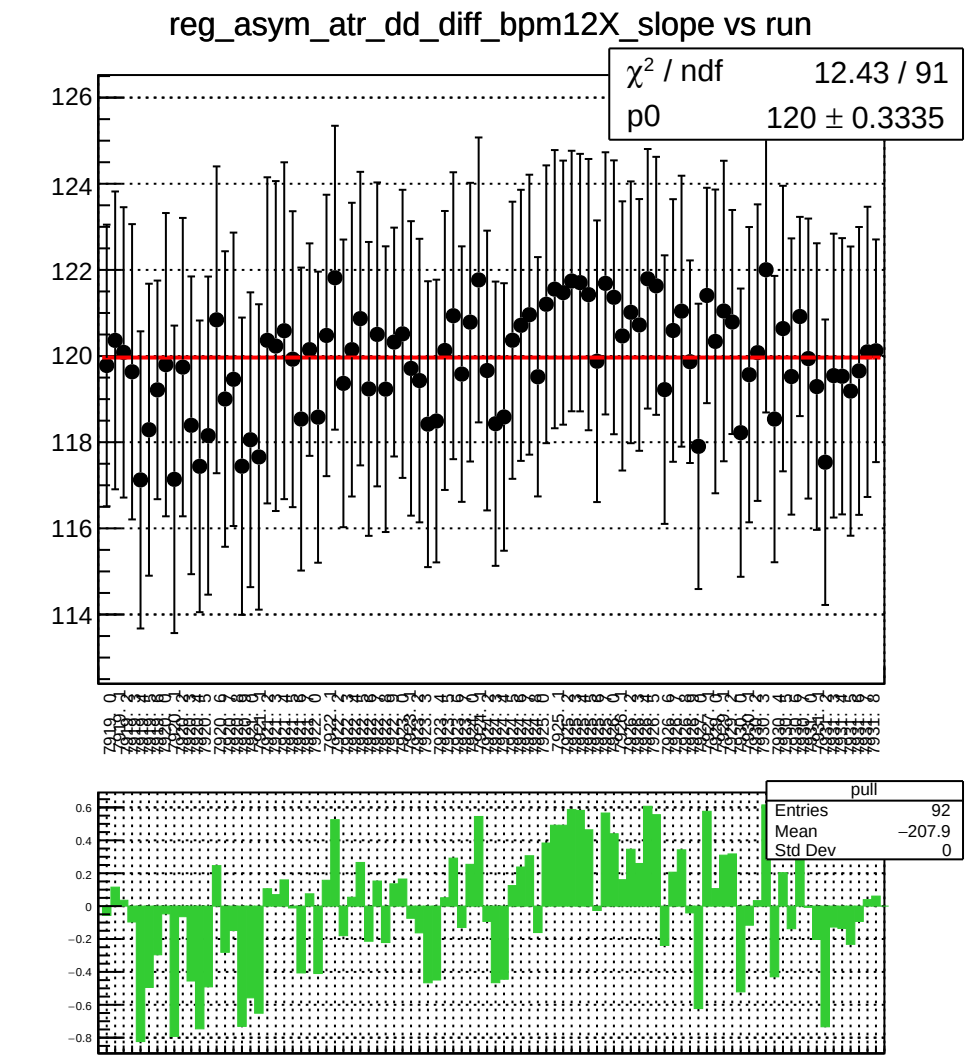

pull1D
Entries 92
Mean −0.006054
Std Dev 0.2805

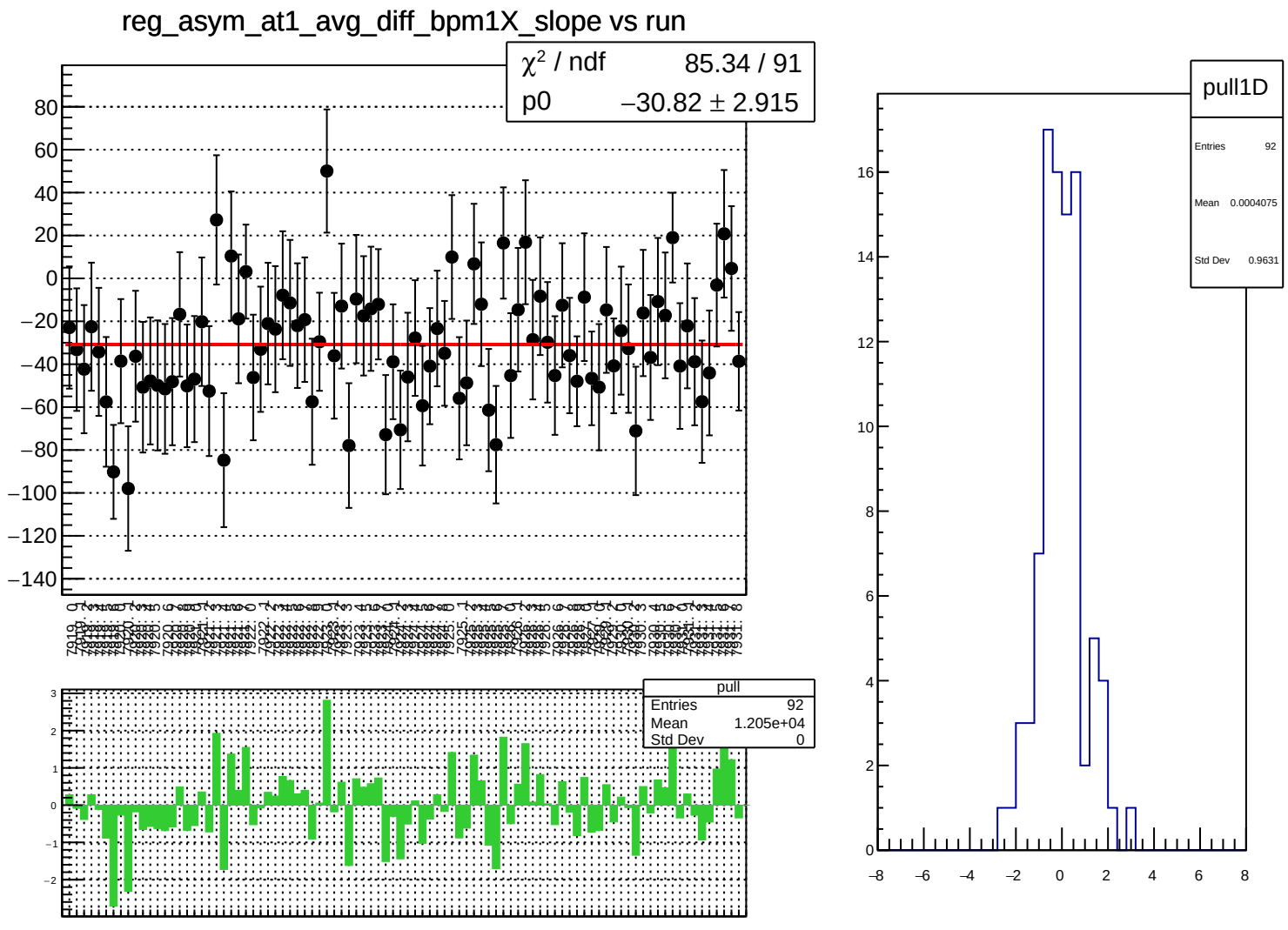

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.969 / 91
p0 −54.04 ± 10.03
150
100
50
0
−50
−100
−150
−200
pull
Entries 92
Mean 185.5
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 92
Mean 0.004368
Std Dev 0.2752
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

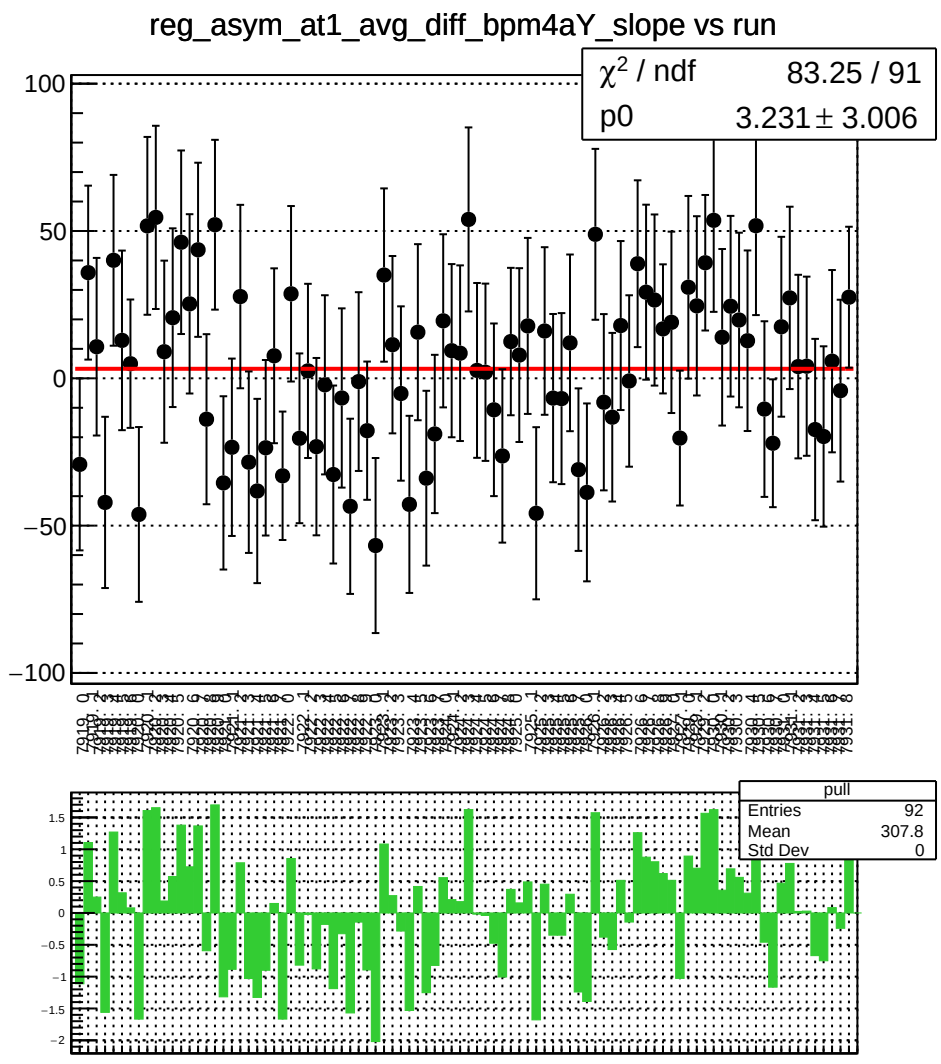

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.288 / 91
p0 −172 ± 8.703
pull
Entries 92
Mean −89.03
Std Dev 0
pull1D
Entries 92
Mean 0.006151
Std Dev 0.2814

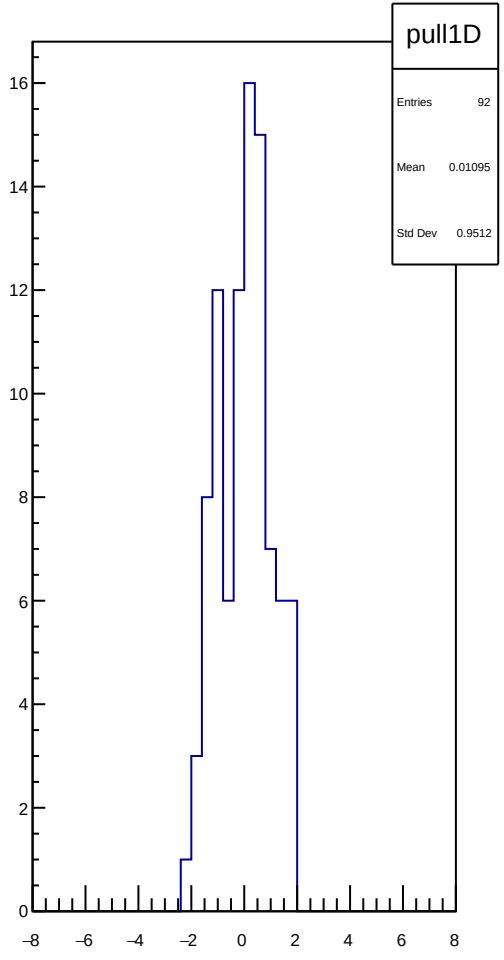

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.412 / 91
p0 17.92 ± 11.54
pull
Entries 92
Mean 315.5
Std Dev 0

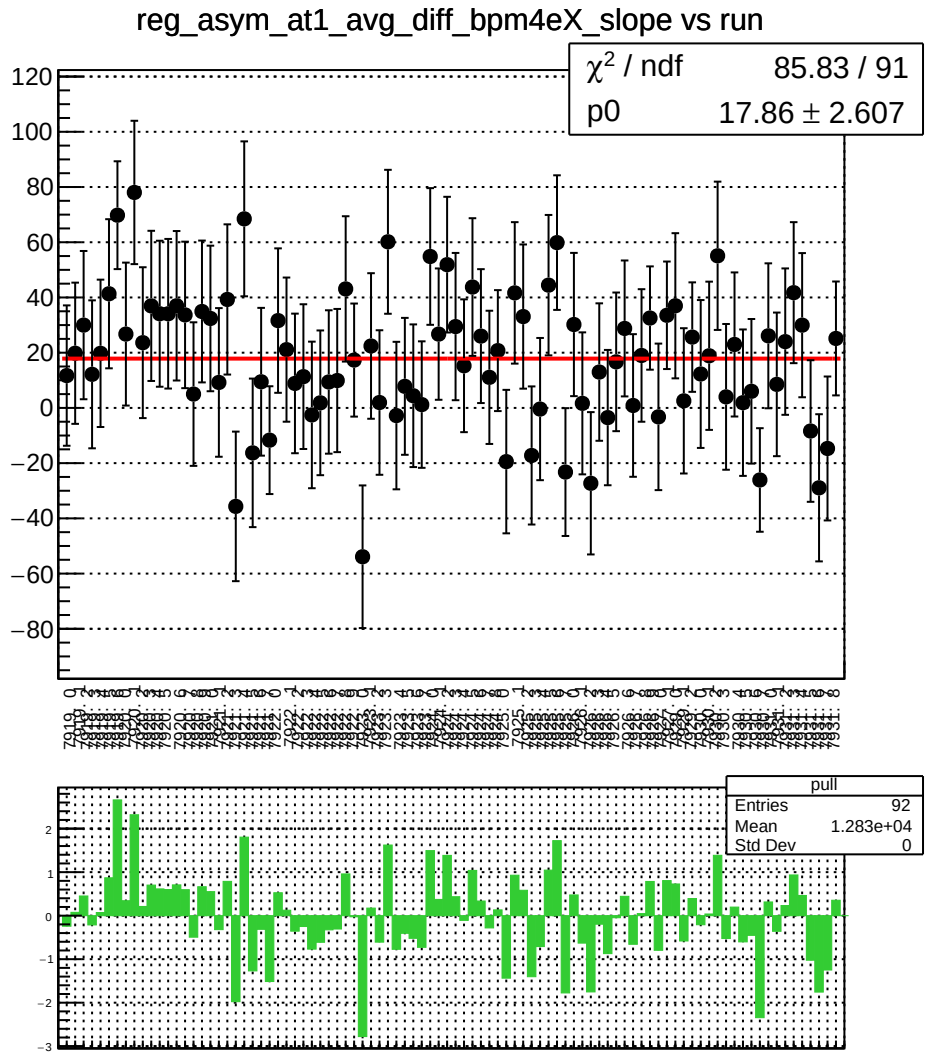

pull1D
Entries 92
Mean −0.004087
Std Dev 0.2838

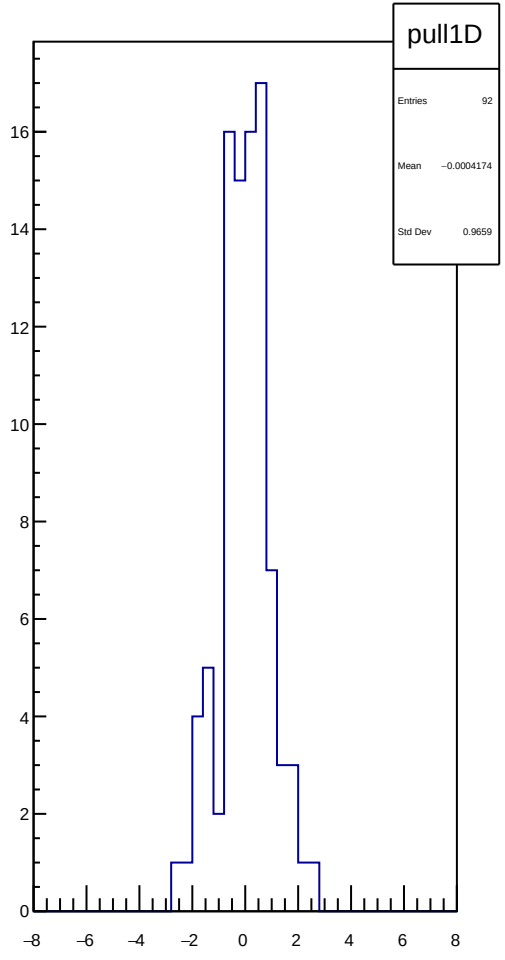

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 12.43 / 91
p0 120 ± 0.3335
pull
Entries 92
Mean −207.9
Std Dev 0
pull1D
Entries 92
Mean −0.01151
Std Dev 0.3673

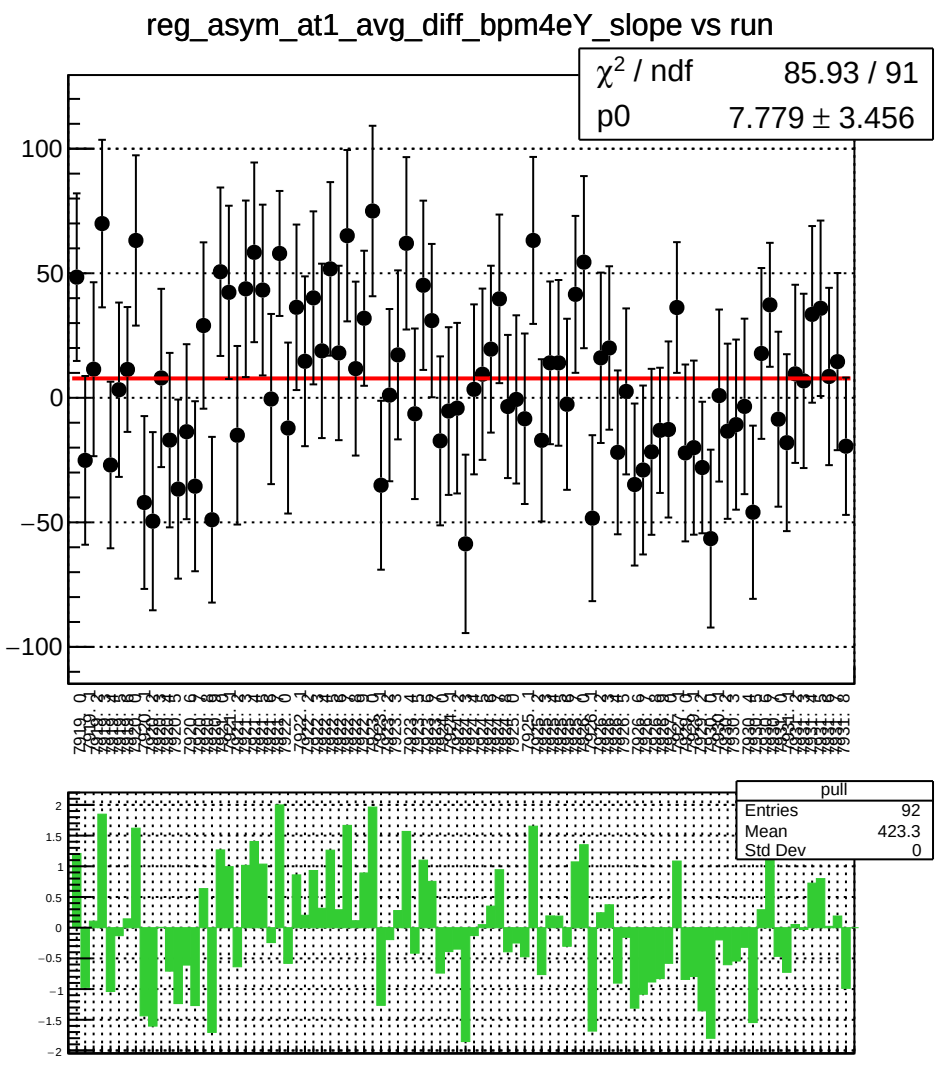

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 85.34 / 91
p0 −30.82 ± 2.915
pull
Entries 92
Mean 1.205e+04
Std Dev 0
pull1D
Entries 92
Mean 0.0004075
Std Dev 0.9631

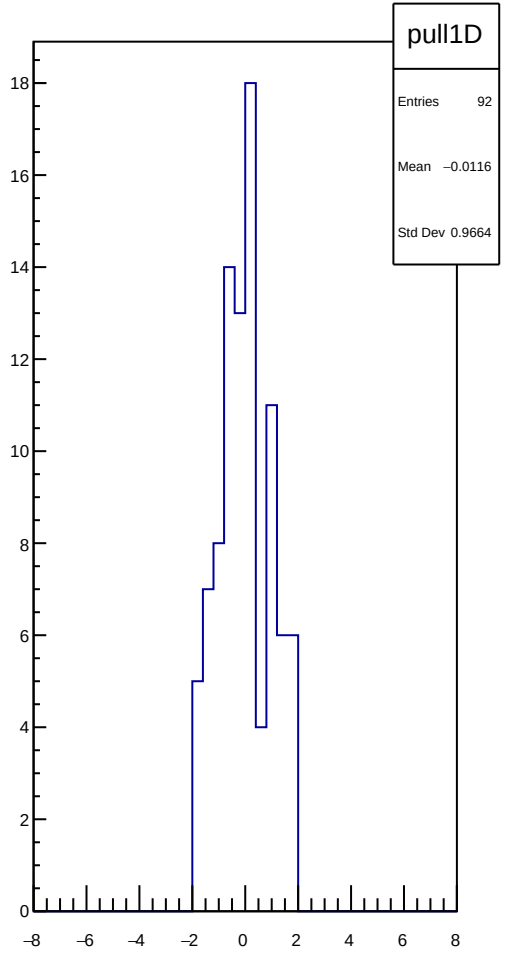

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 83.25 / 91
p0 3.231 ± 3.006
pull
Entries 92
Mean 307.8
Std Dev 0

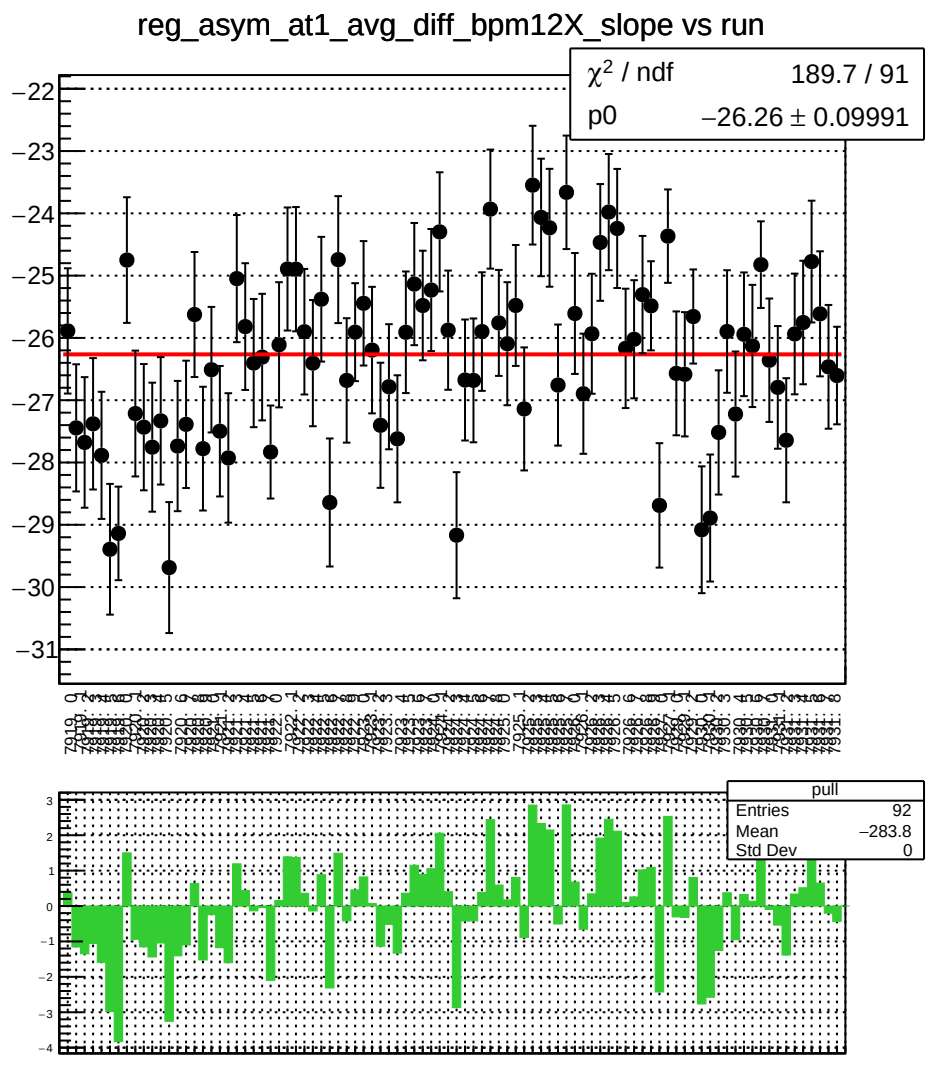

pull1D
Entries 92
Mean 0.01095
Std Dev 0.9512

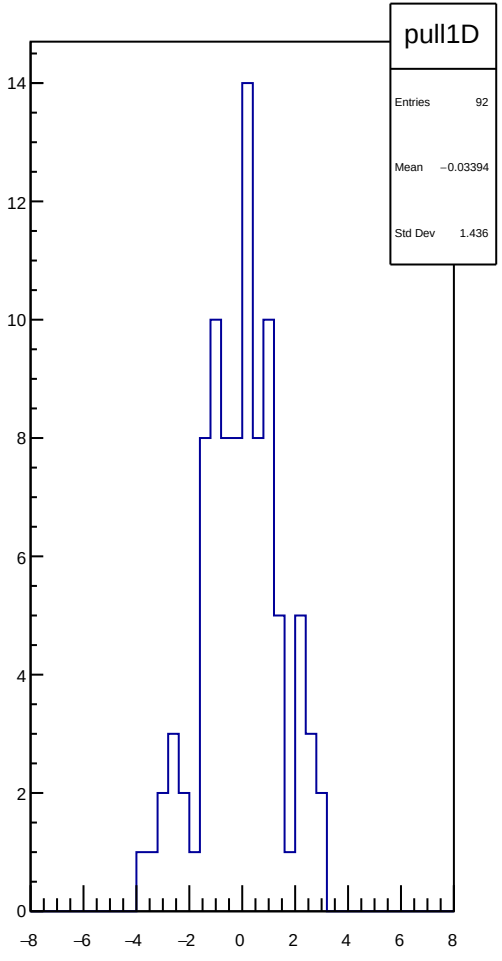

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 85.83 / 91
p0 17.86 ± 2.607
pull
Entries 92
Mean 1.283e+04
Std Dev 0

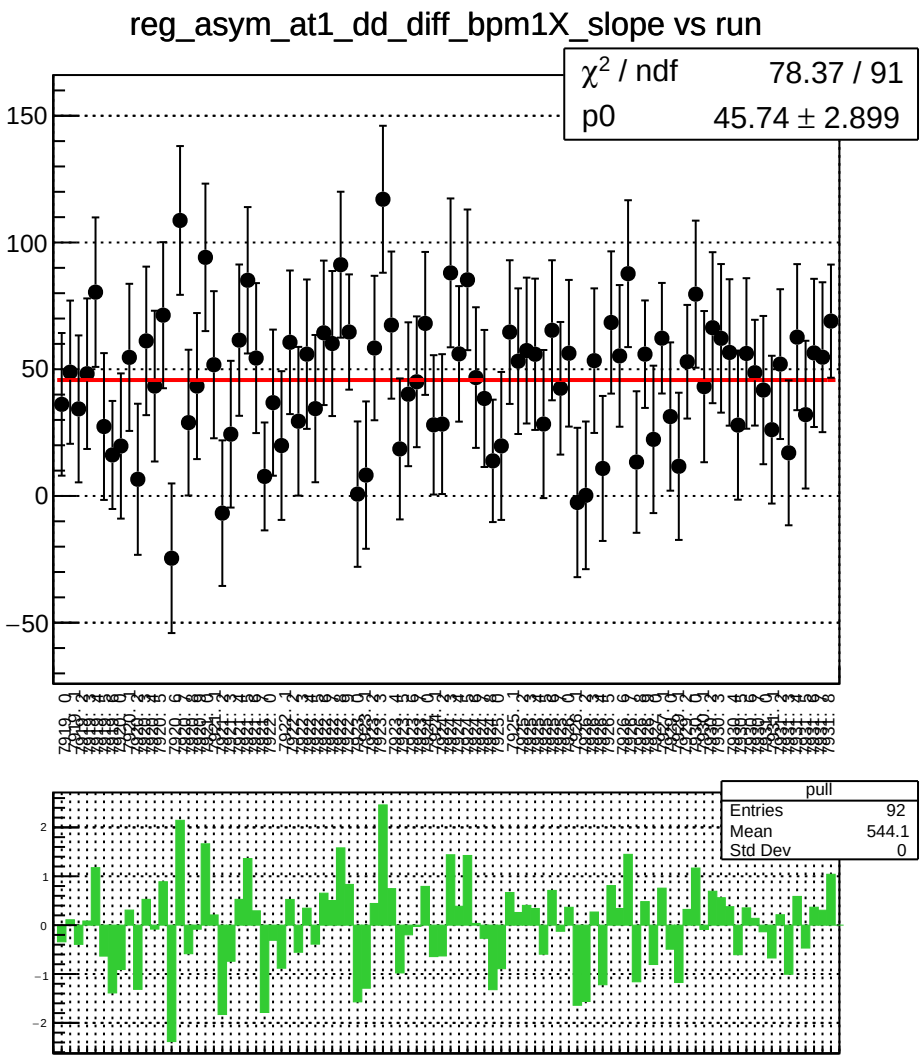

pull1D
Entries 92
Mean −0.0004174
Std Dev 0.9659

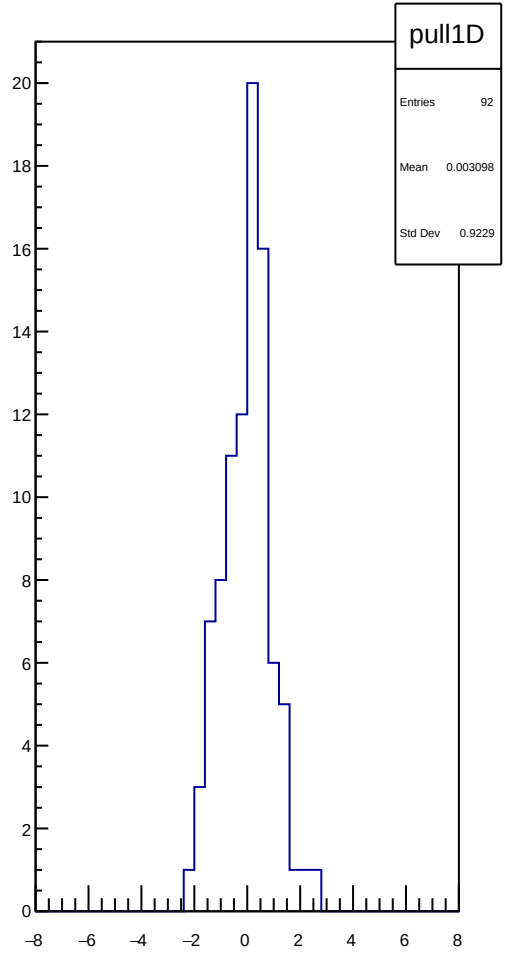

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 85.93 / 91
p0 7.779 ± 3.456
100
50
0
−50
−100
pull
Entries 92
Mean 423.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

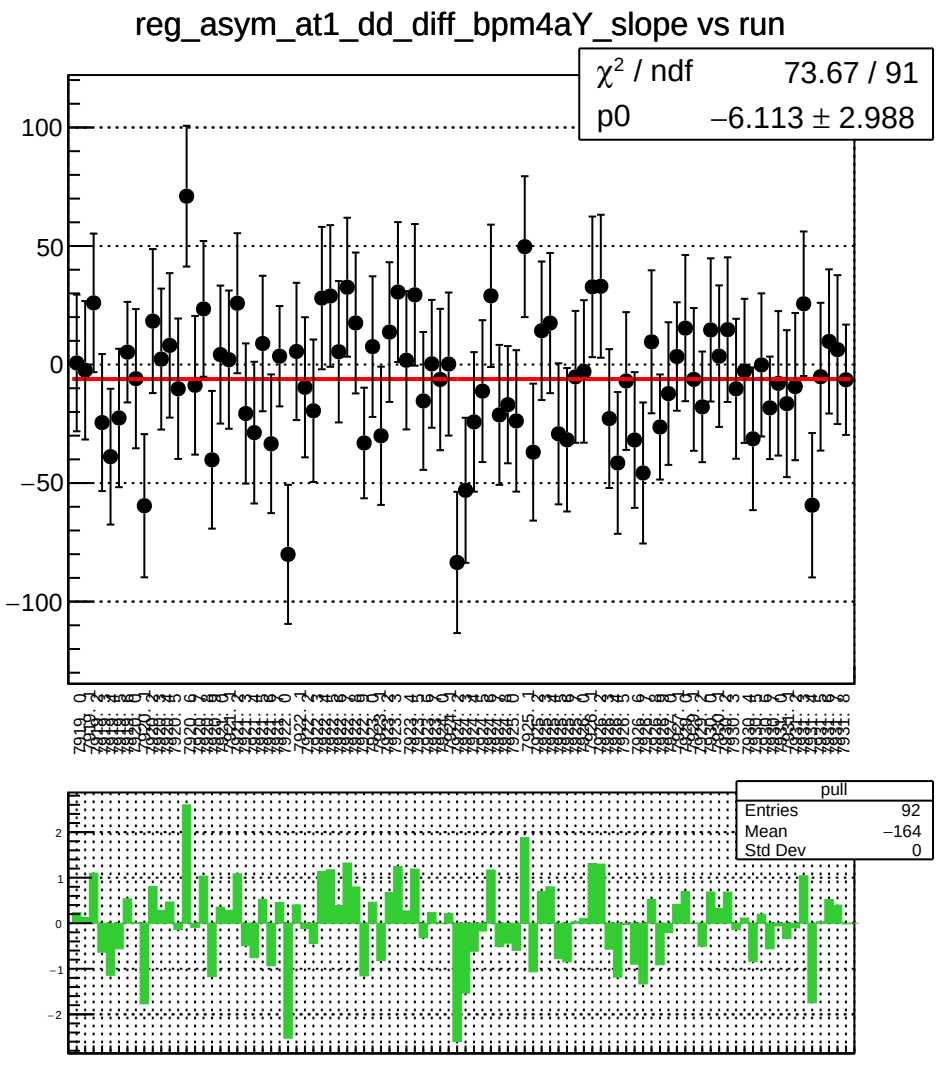

pull1D
Entries 92
Mean −0.0116
Std Dev 0.9664
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

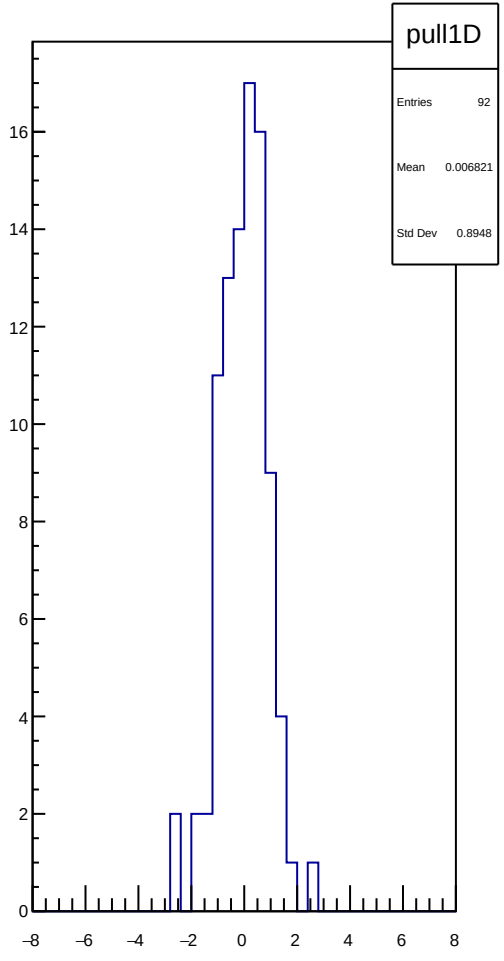

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 189.7 / 91
p0 −26.26 ± 0.09991
pull
Entries 92
Mean −283.8
Std Dev 0

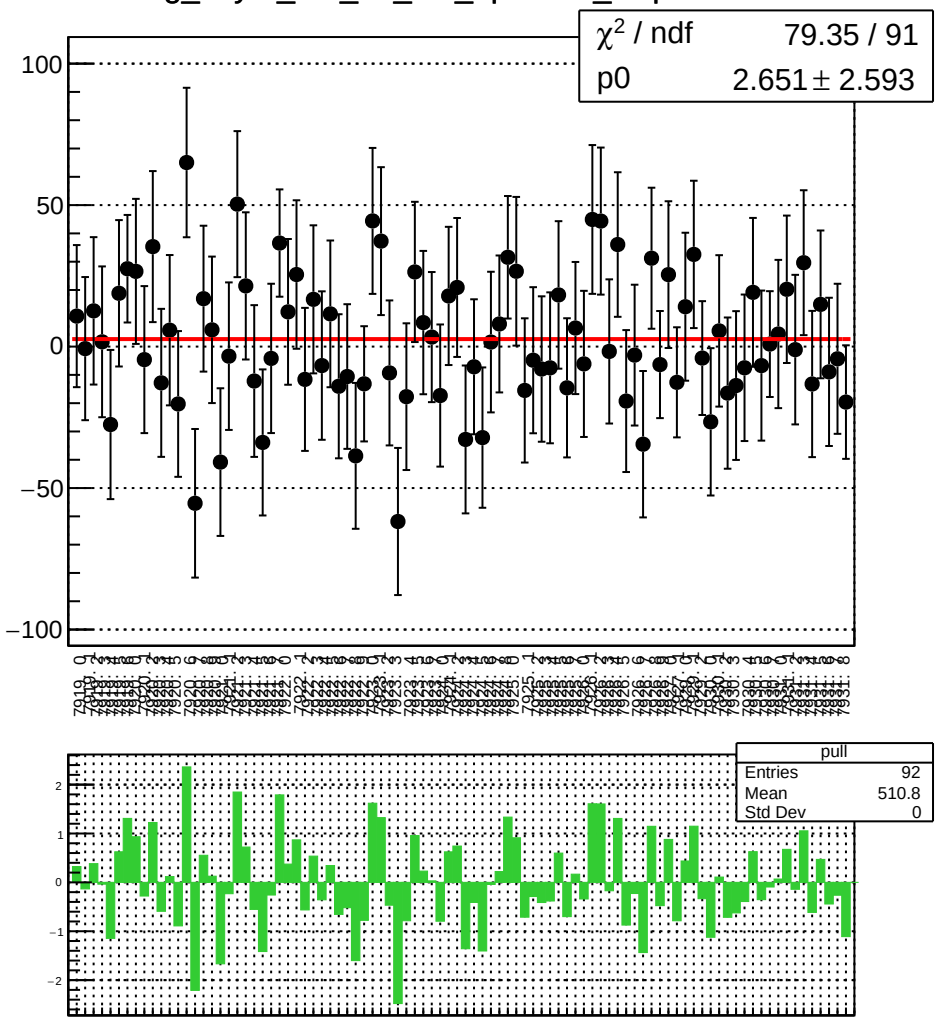

pull1D
Entries 92
Mean −0.03394
Std Dev 1.436

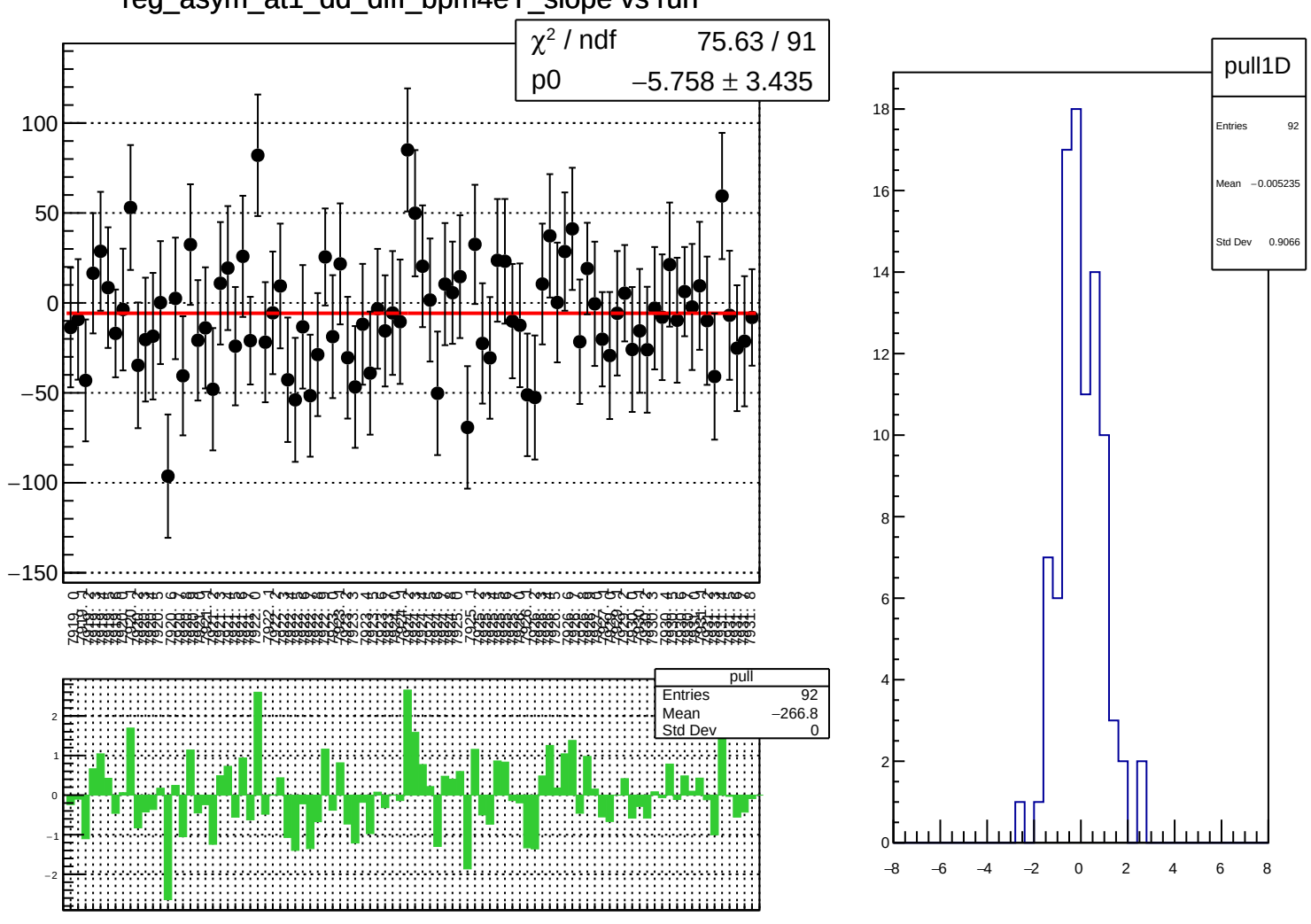

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 78.37 / 91
p0 45.74 ± 2.899
150
100
50
0
−50
pull
Entries 92
Mean 544.1
Std Dev 0
2
1
0
−1
−2

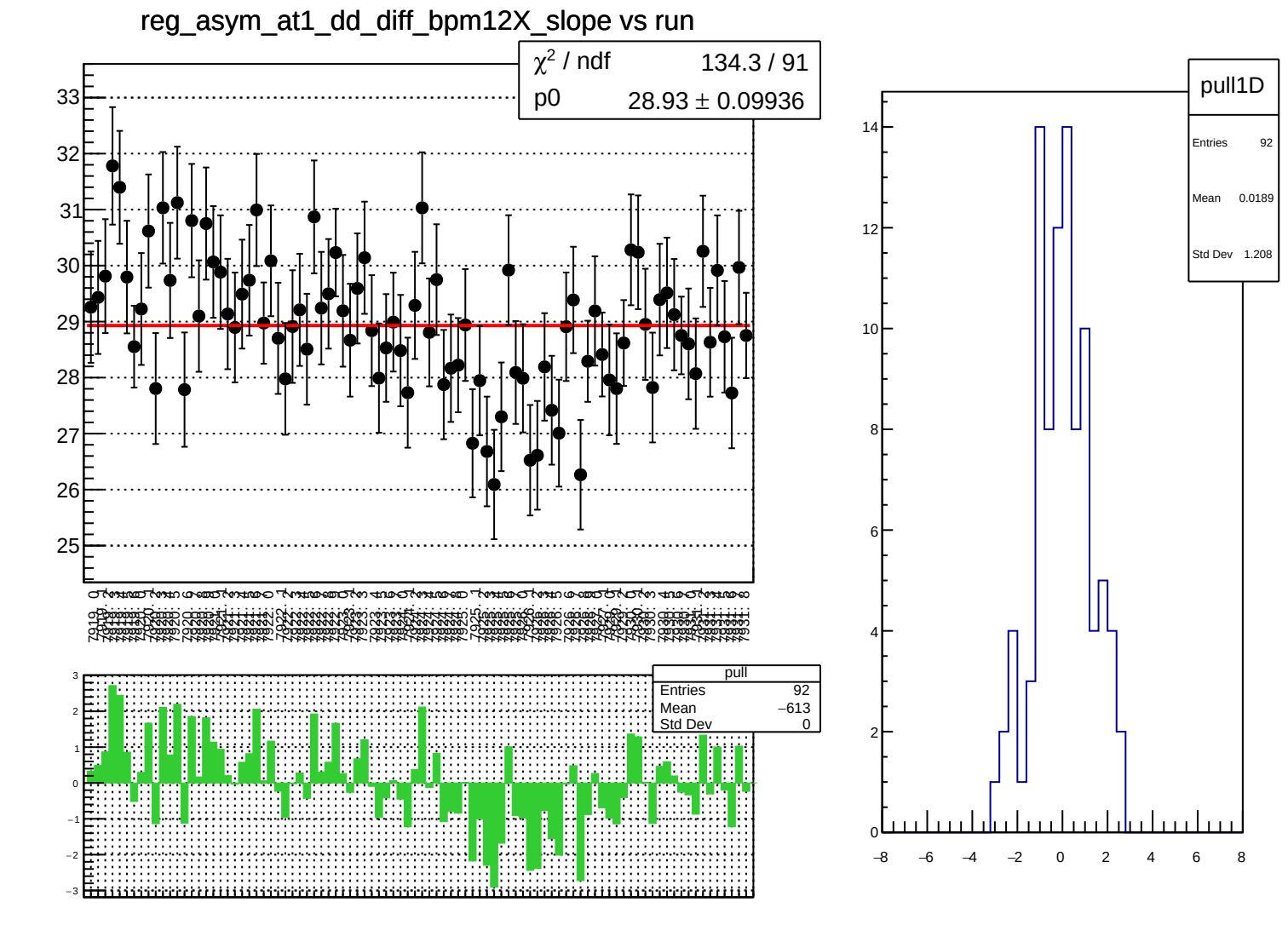

pull1D
Entries 92
Mean 0.003098
Std Dev 0.9229
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

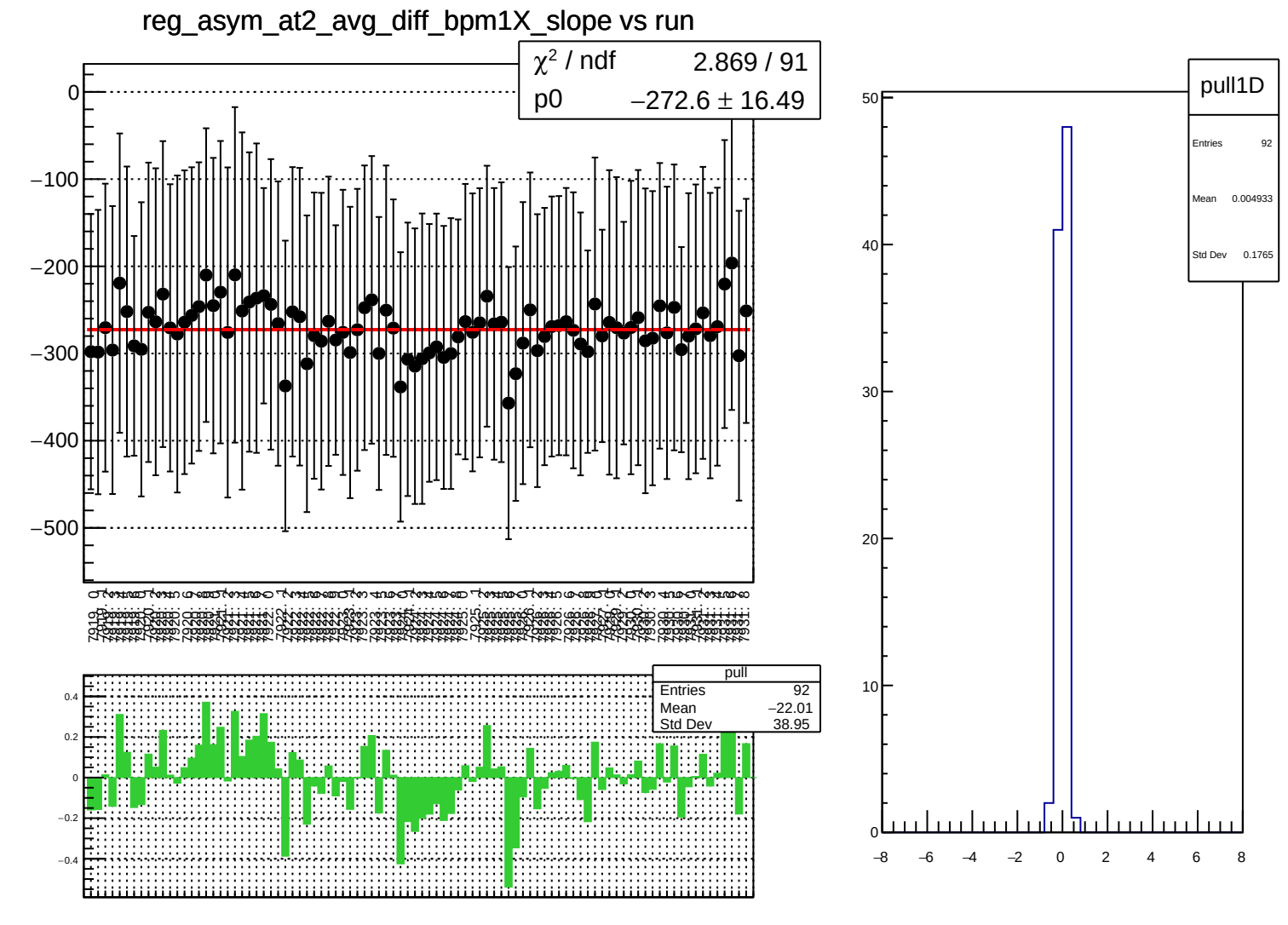

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 73.67 / 91
p0 −6.113 ± 2.988
100
50
0
−50
−100
pull
Entries 92
Mean −164
Std Dev 0
2
1
0
−1
−2

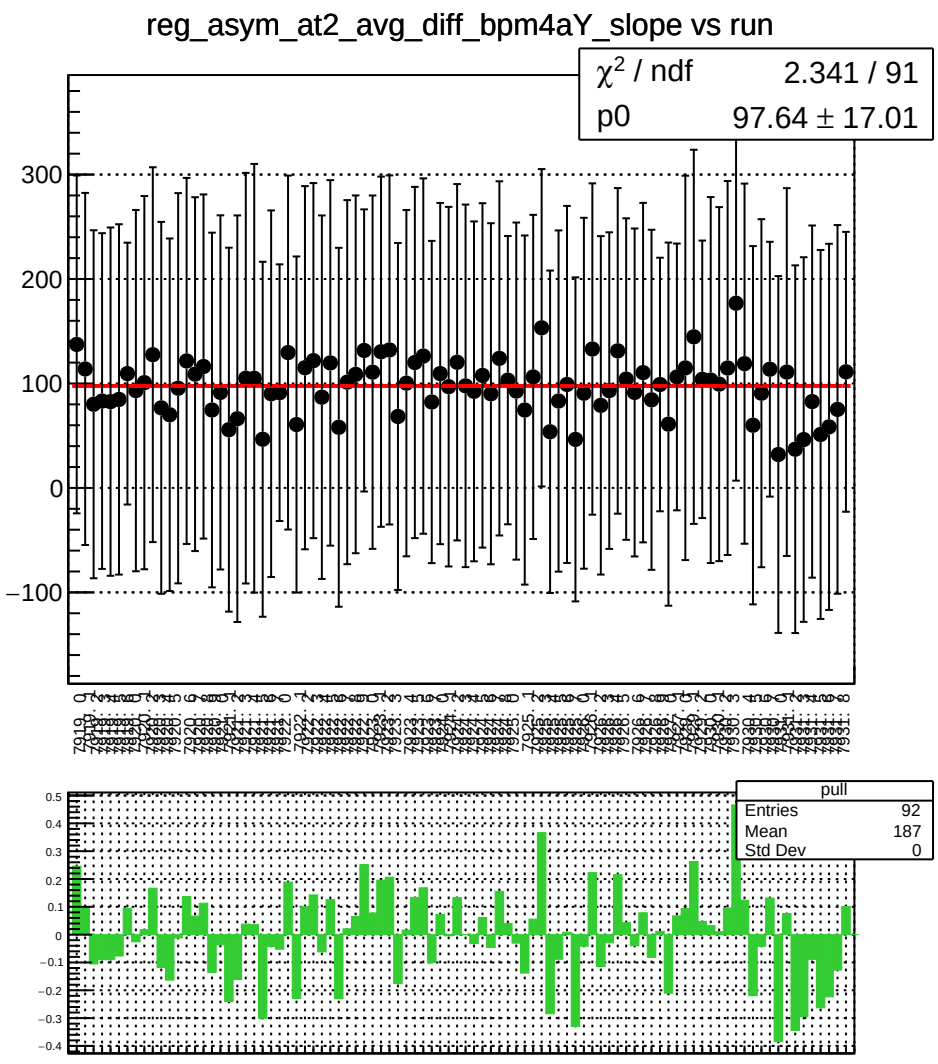

pull1D
Entries 92
Mean 0.006821
Std Dev 0.8948
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

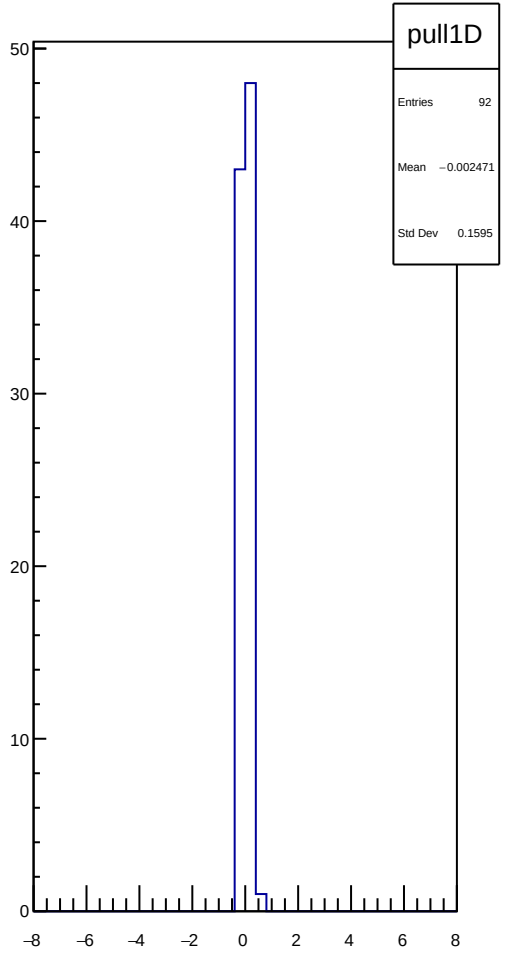

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 79.35 / 91
p0 2.651 ± 2.593
pull
Entries 92
Mean 510.8
Std Dev 0
pull1D
Entries 92
Mean −0.003081
Std Dev 0.9287

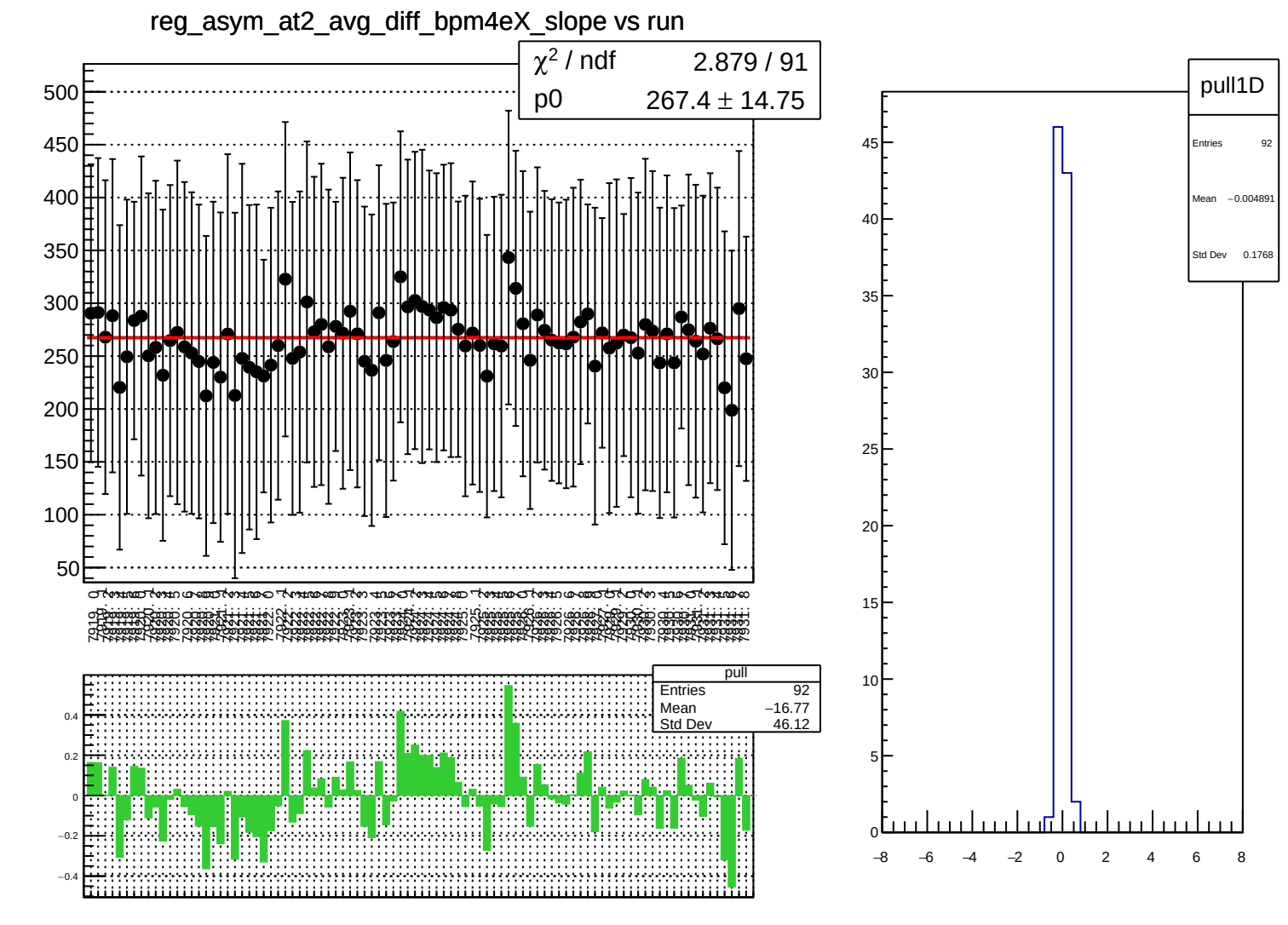

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 75.63 / 91
p0 −5.758 ± 3.435
pull
Entries 92
Mean −266.8
Std Dev 0
pull1D
Entries 92
Mean −0.005235
Std Dev 0.9066

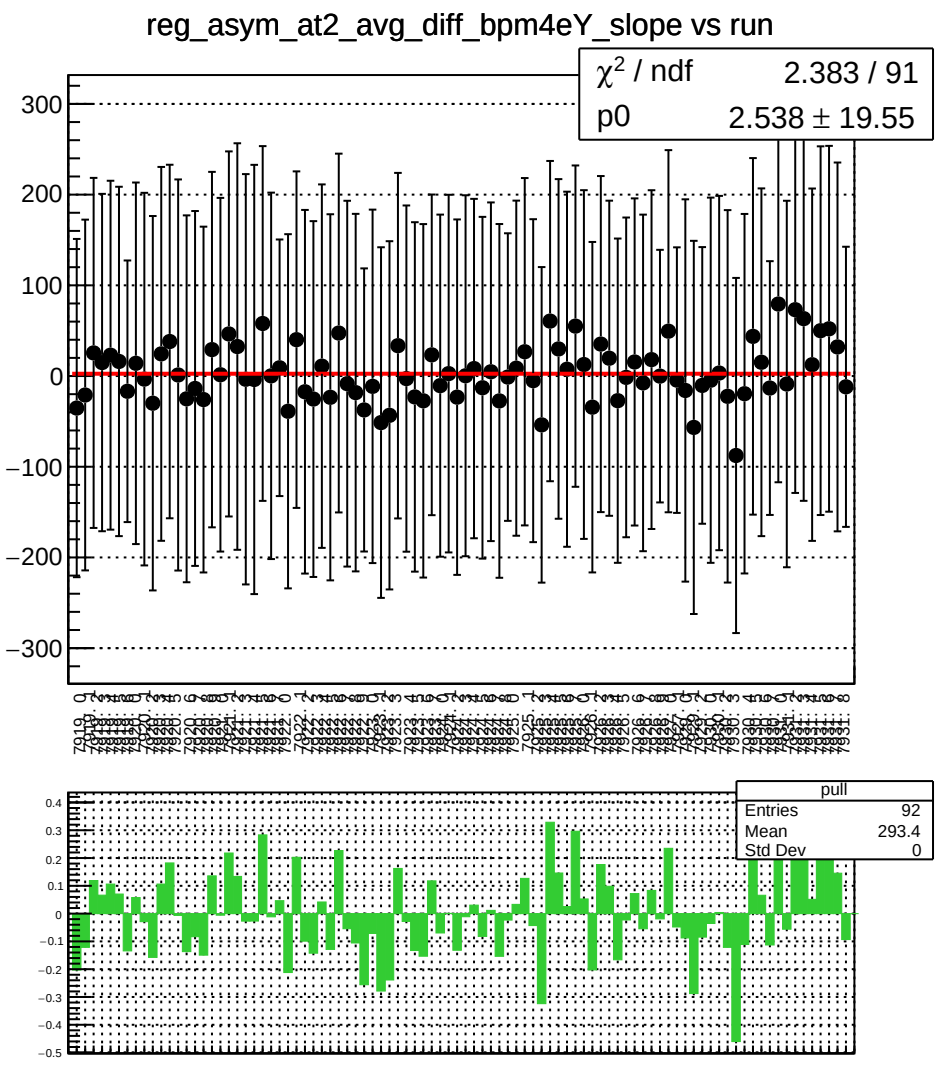

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 134.3 / 91
p0 28.93 ± 0.09936
pull
Entries 92
Mean −613
Std Dev 0
pull1D
Entries 92
Mean 0.0189
Std Dev 1.208

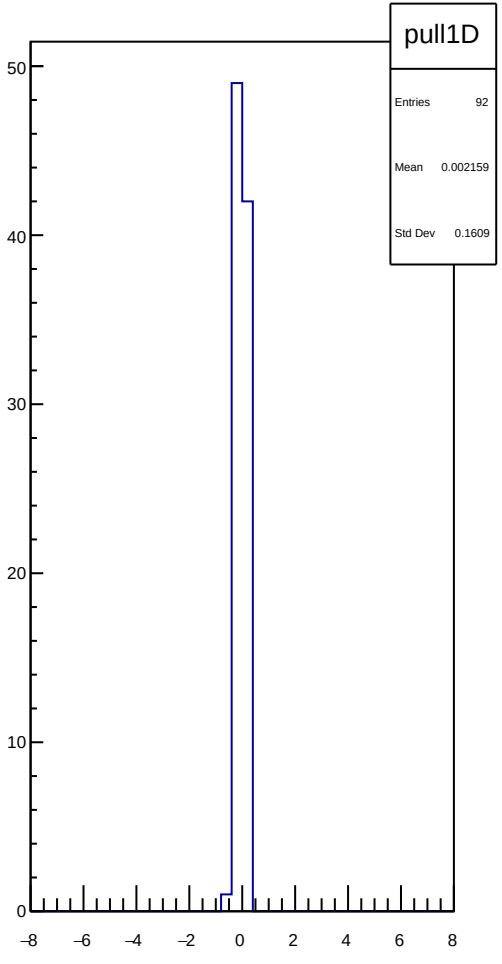

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 2.869 / 91
p0 −272.6 ± 16.49
pull
Entries 92
Mean −22.01
Std Dev 38.95
pull1D
Entries 92
Mean 0.004933
Std Dev 0.1765

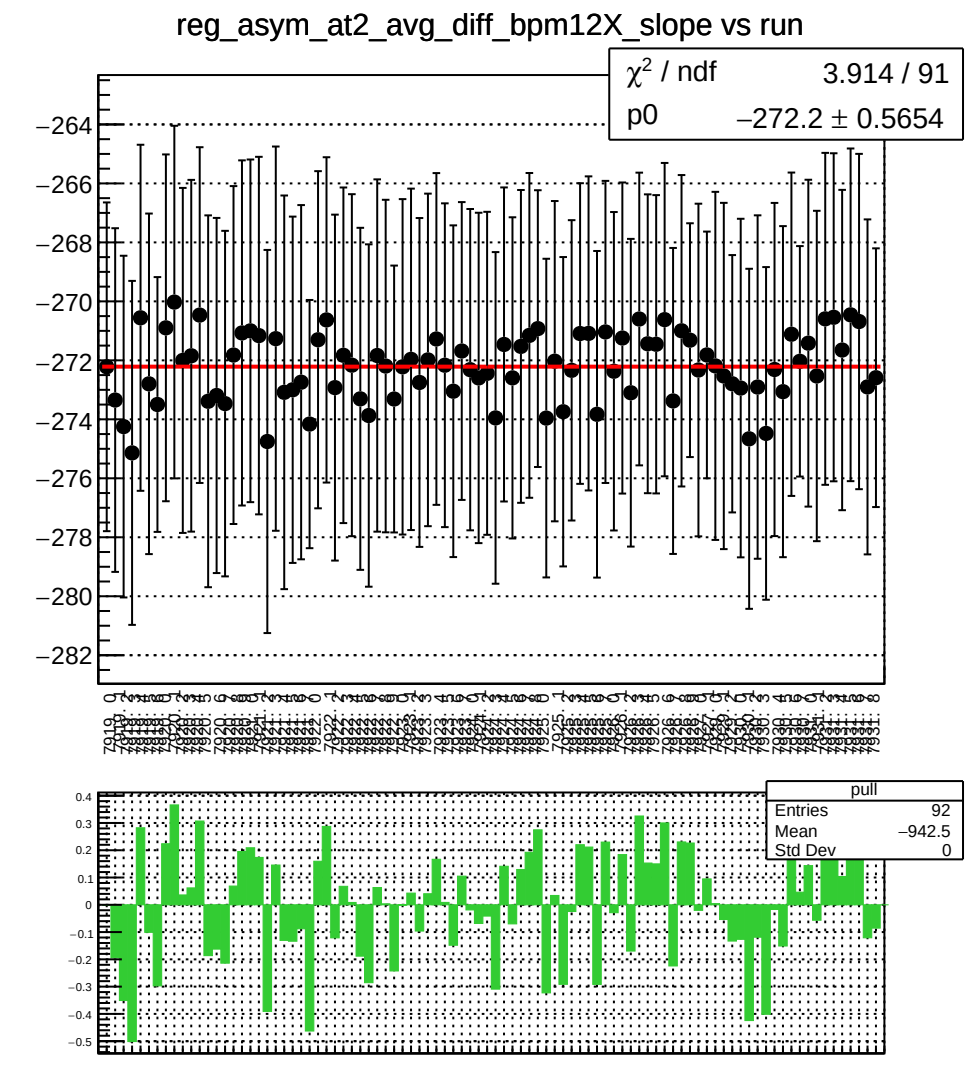

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.341 / 91
p0 97.64 ± 17.01
300
200
100
0
−100
pull
Entries 92
Mean 187
Std Dev 0
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

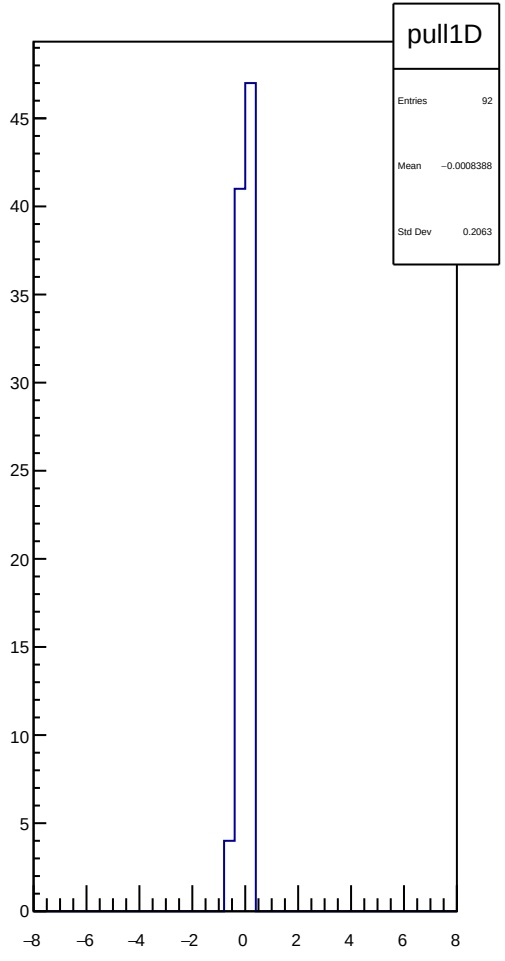

pull1D
Entries 92
Mean −0.002471
Std Dev 0.1595
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

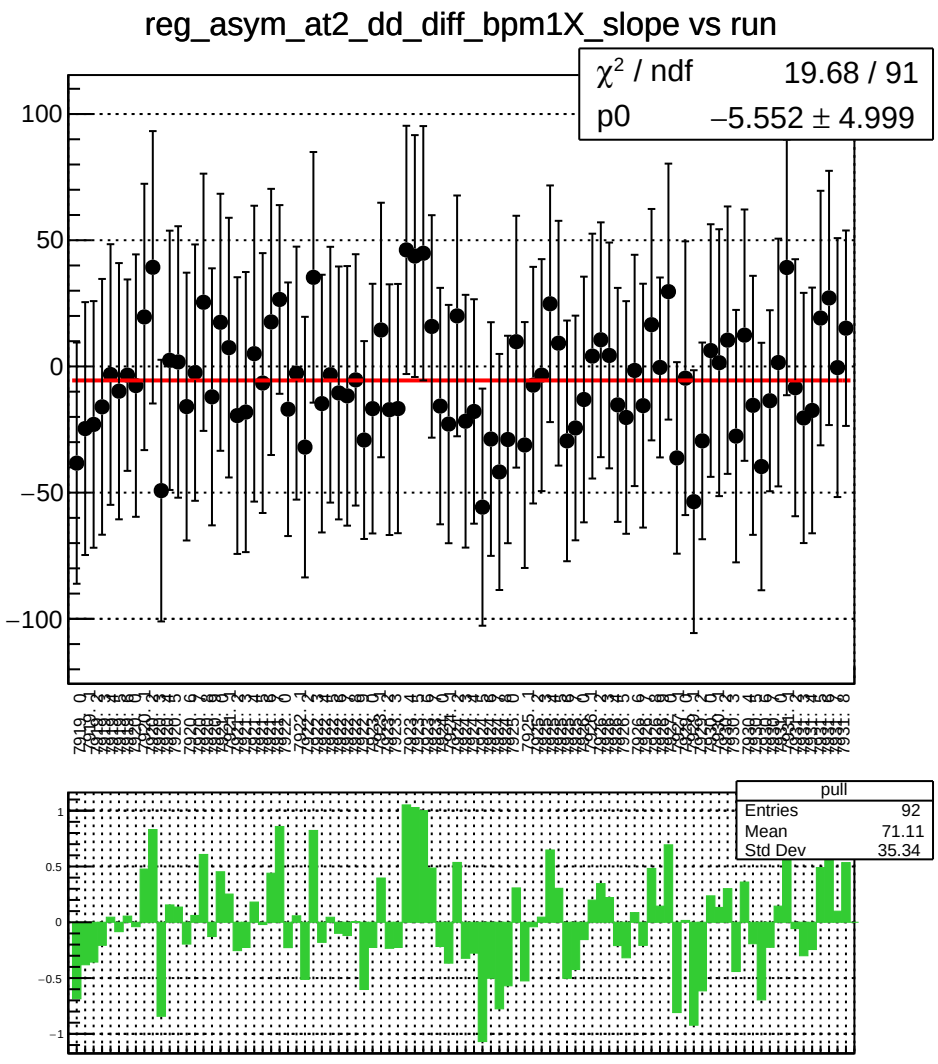

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.879 / 91
p0 267.4 ± 14.75
pull
Entries 92
Mean −16.77
Std Dev 46.12
pull1D
Entries 92
Mean −0.004891
Std Dev 0.1768

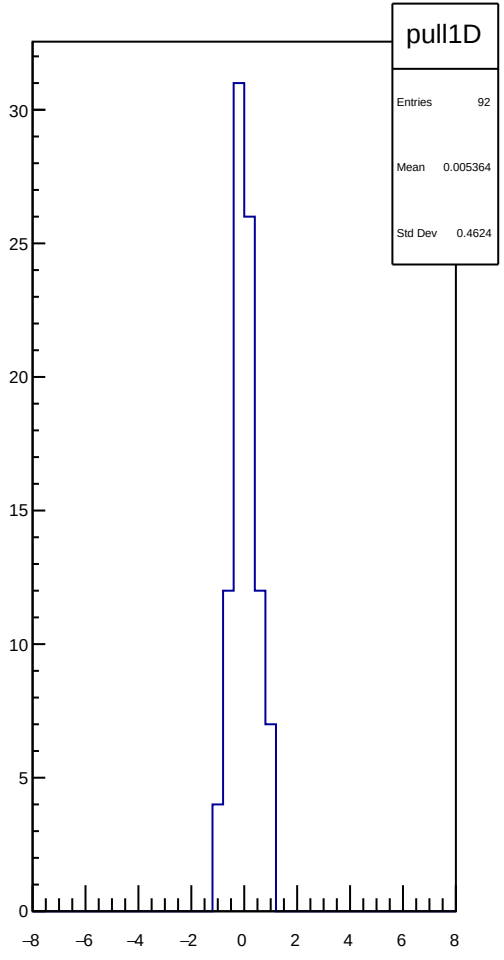

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.383 / 91
p0 2.538 ± 19.55
pull
Entries 92
Mean 293.4
Std Dev 0

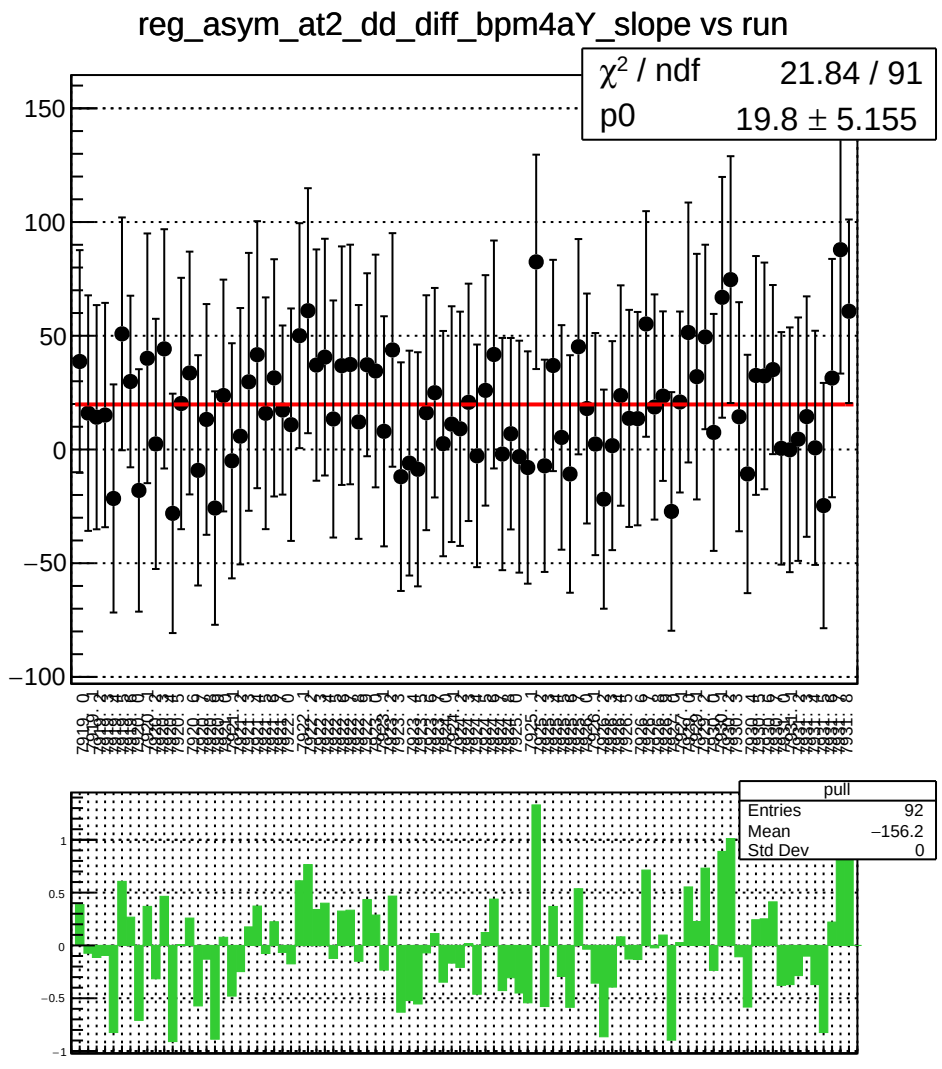

pull1D
Entries 92
Mean 0.002159
Std Dev 0.1609

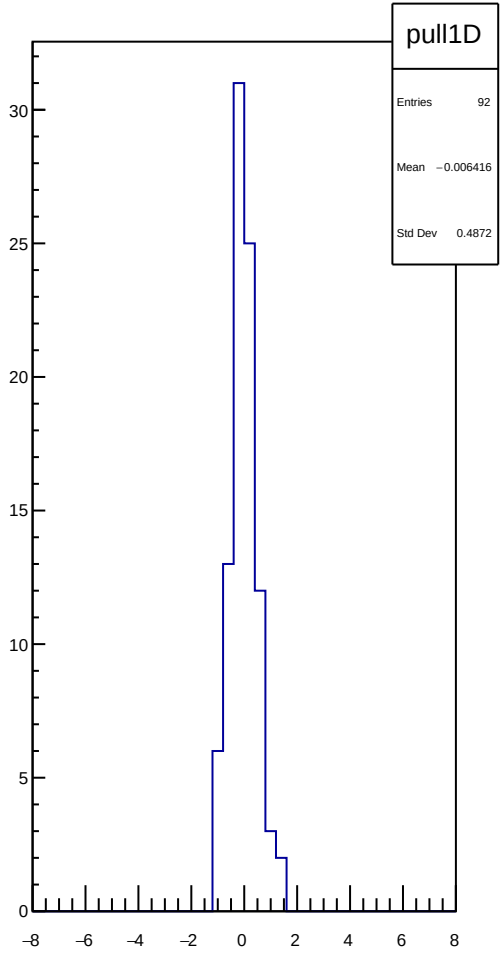

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 3.914 / 91
p0 −272.2 ± 0.5654
pull
Entries 92
Mean −942.5
Std Dev 0

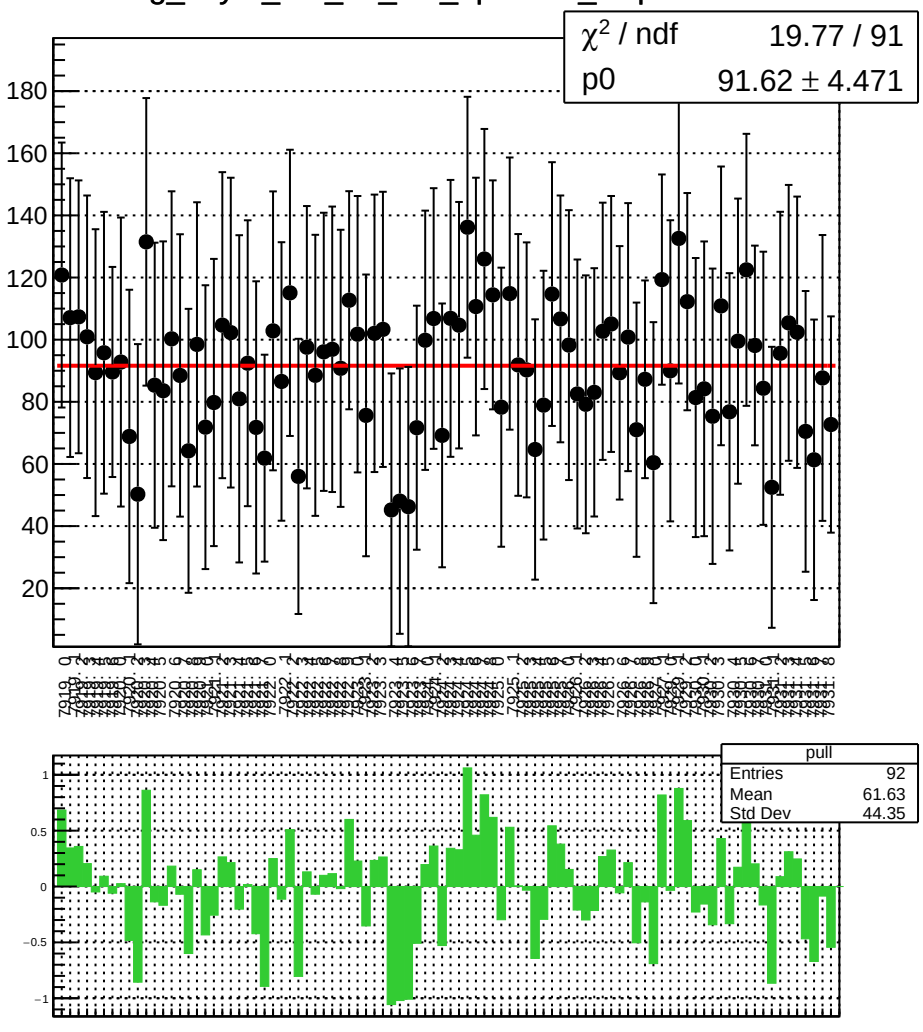

pull1D
Entries 92
Mean −0.0008388
Std Dev 0.2063

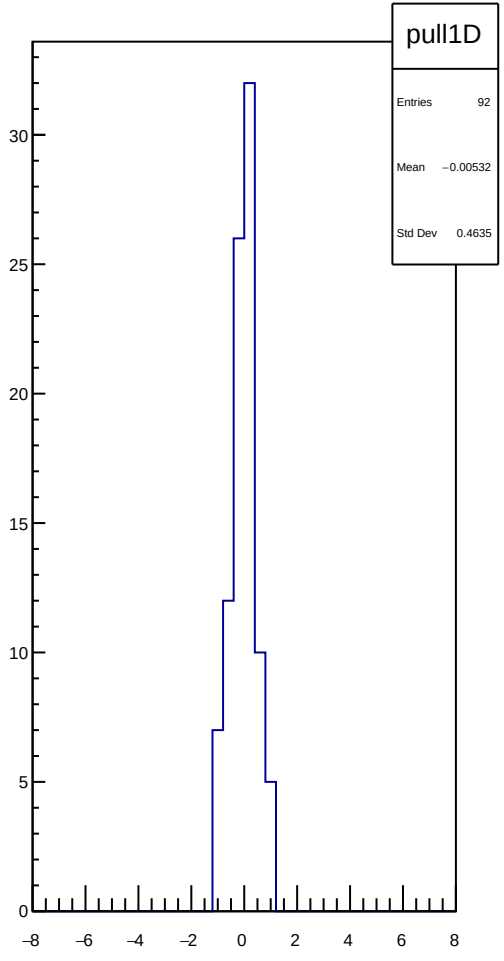

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 19.68 / 91
p0 −5.552 ± 4.999
100
50
0
−50
−100
pull
Entries 92
Mean 71.11
Std Dev 35.34
1
0.5
0
−0.5
−1

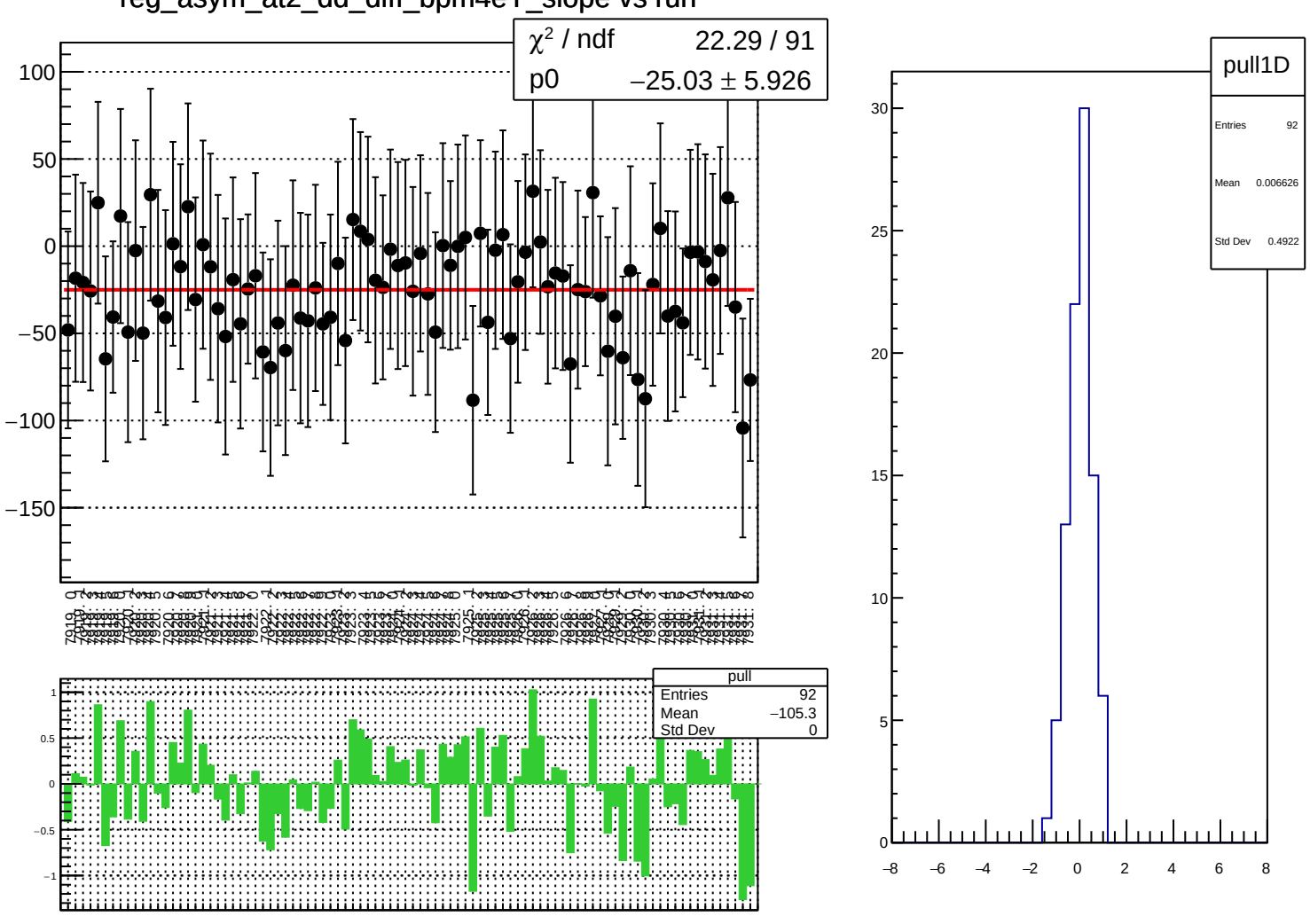

pull1D
Entries 92
Mean 0.005364
Std Dev 0.4624
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

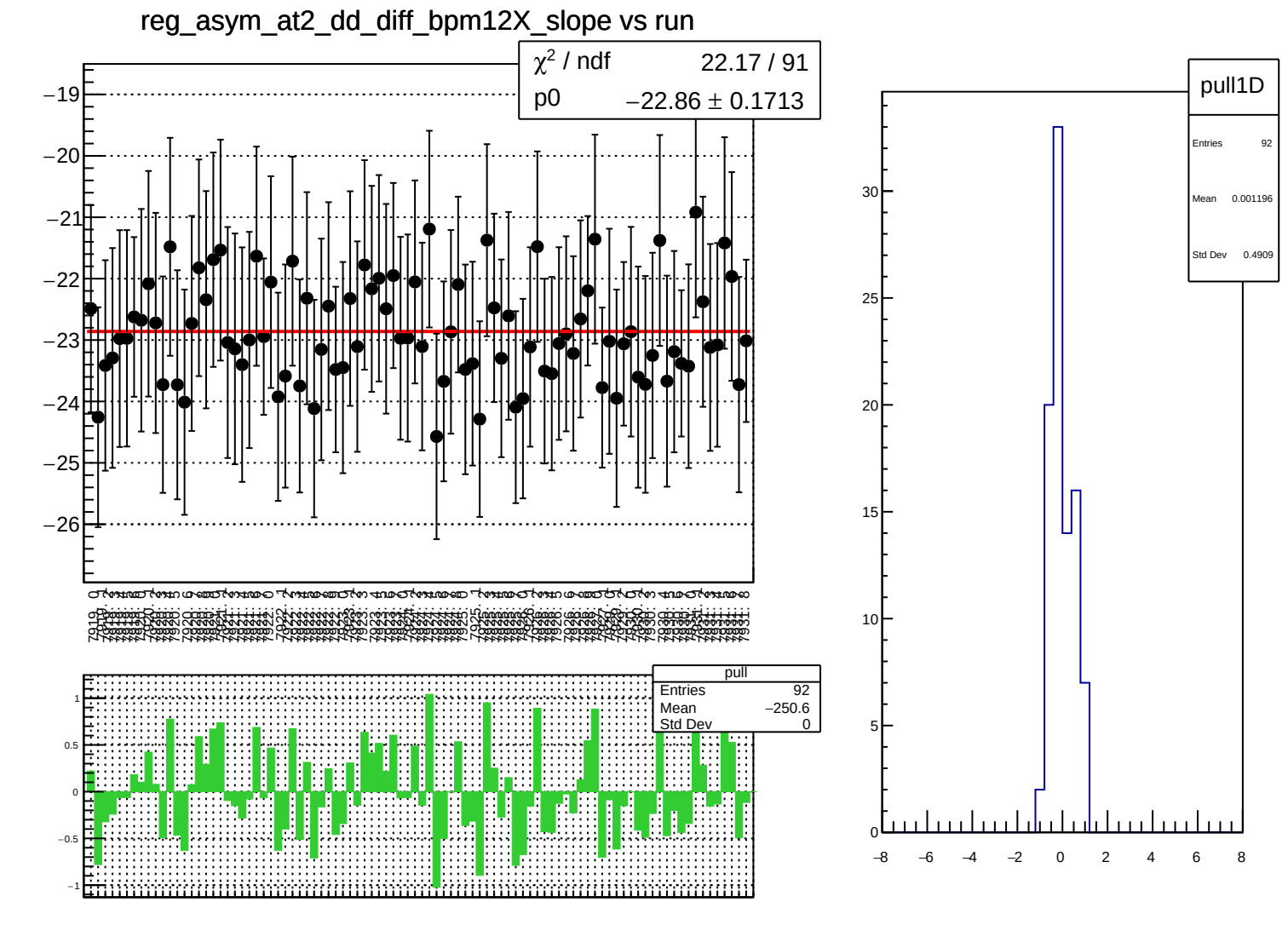

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 21.84 / 91
p0 19.8 ± 5.155
150
100
50
0
−50
−100
pull
Entries 92
Mean −156.2
Std Dev 0
1
0.5
0
−0.5
−1

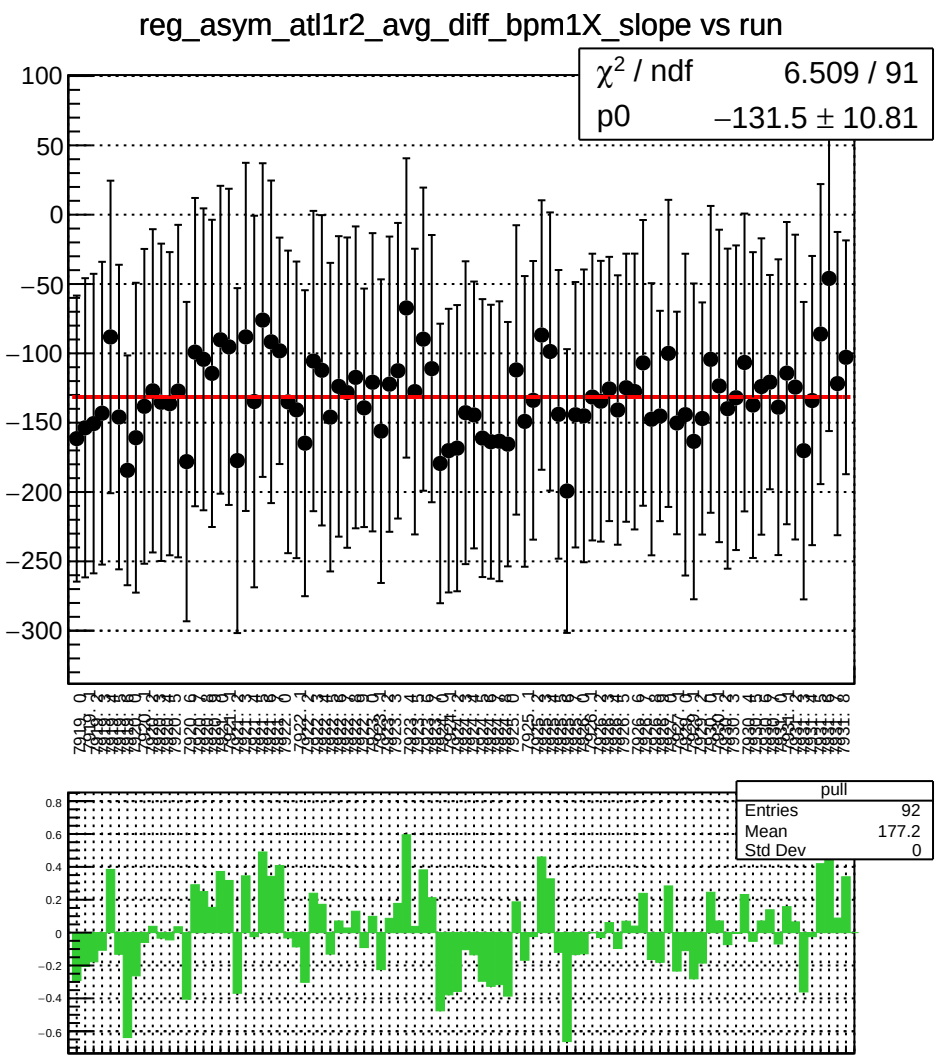

pull1D
Entries 92
Mean −0.006416
Std Dev 0.4872
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

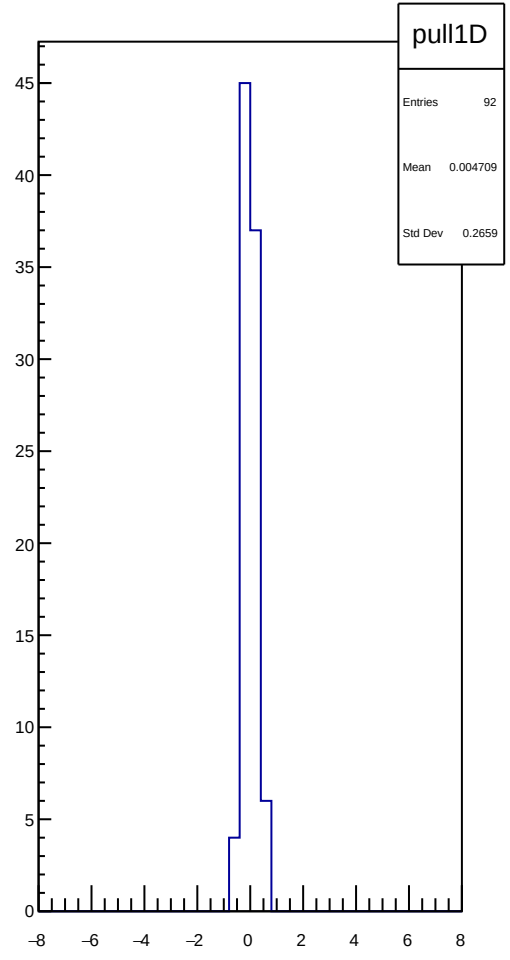

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 19.77 / 91
p0 91.62 ± 4.471
pull
Entries 92
Mean 61.63
Std Dev 44.35

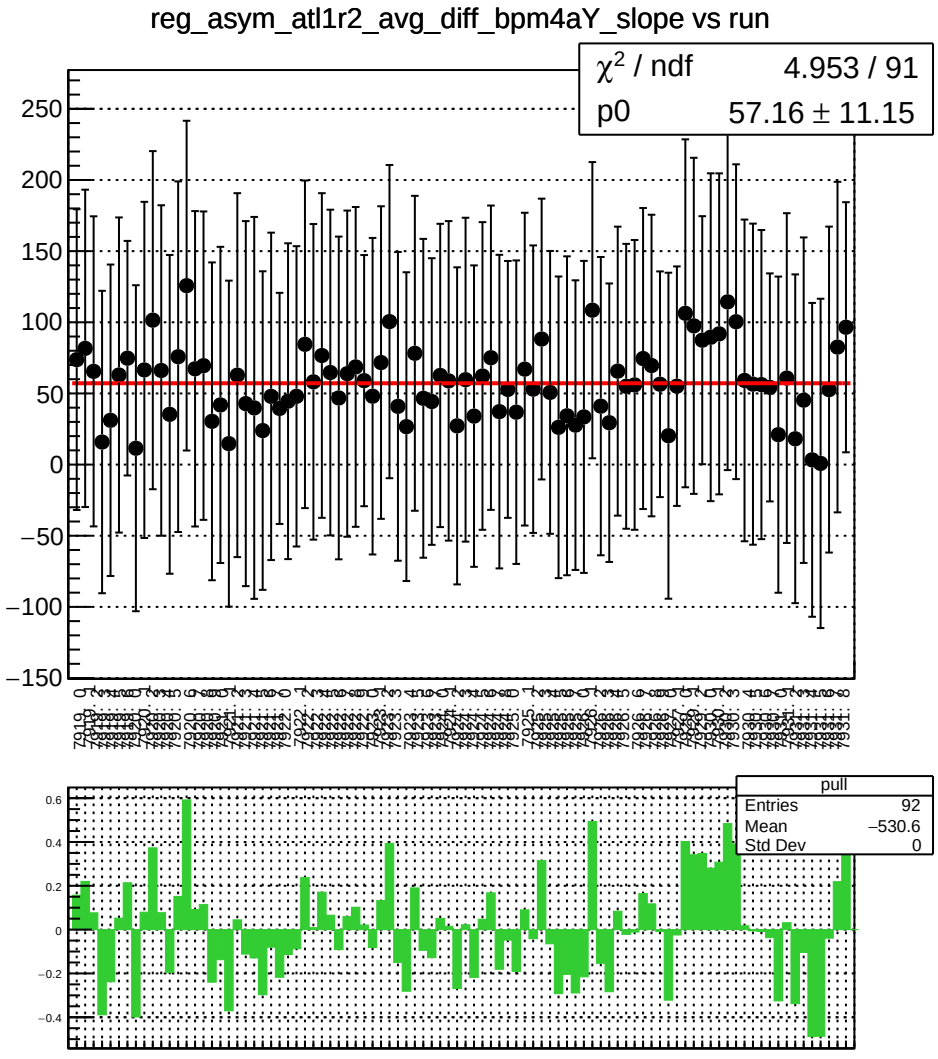

pull1D
Entries 92
Mean −0.00532
Std Dev 0.4635

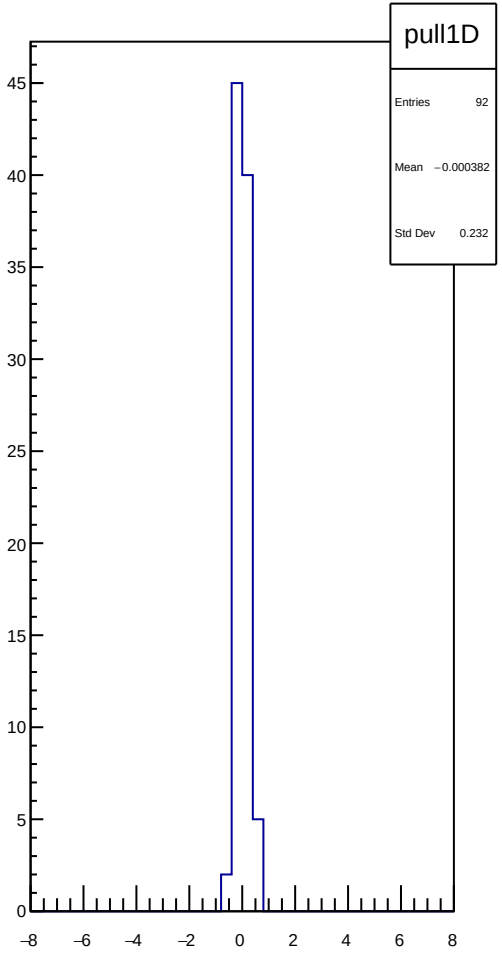

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 22.29 / 91
p0 −25.03 ± 5.926
100
50
0
−50
−100
−150
pull
Entries 92
Mean −105.3
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 92
Mean 0.006626
Std Dev 0.4922
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

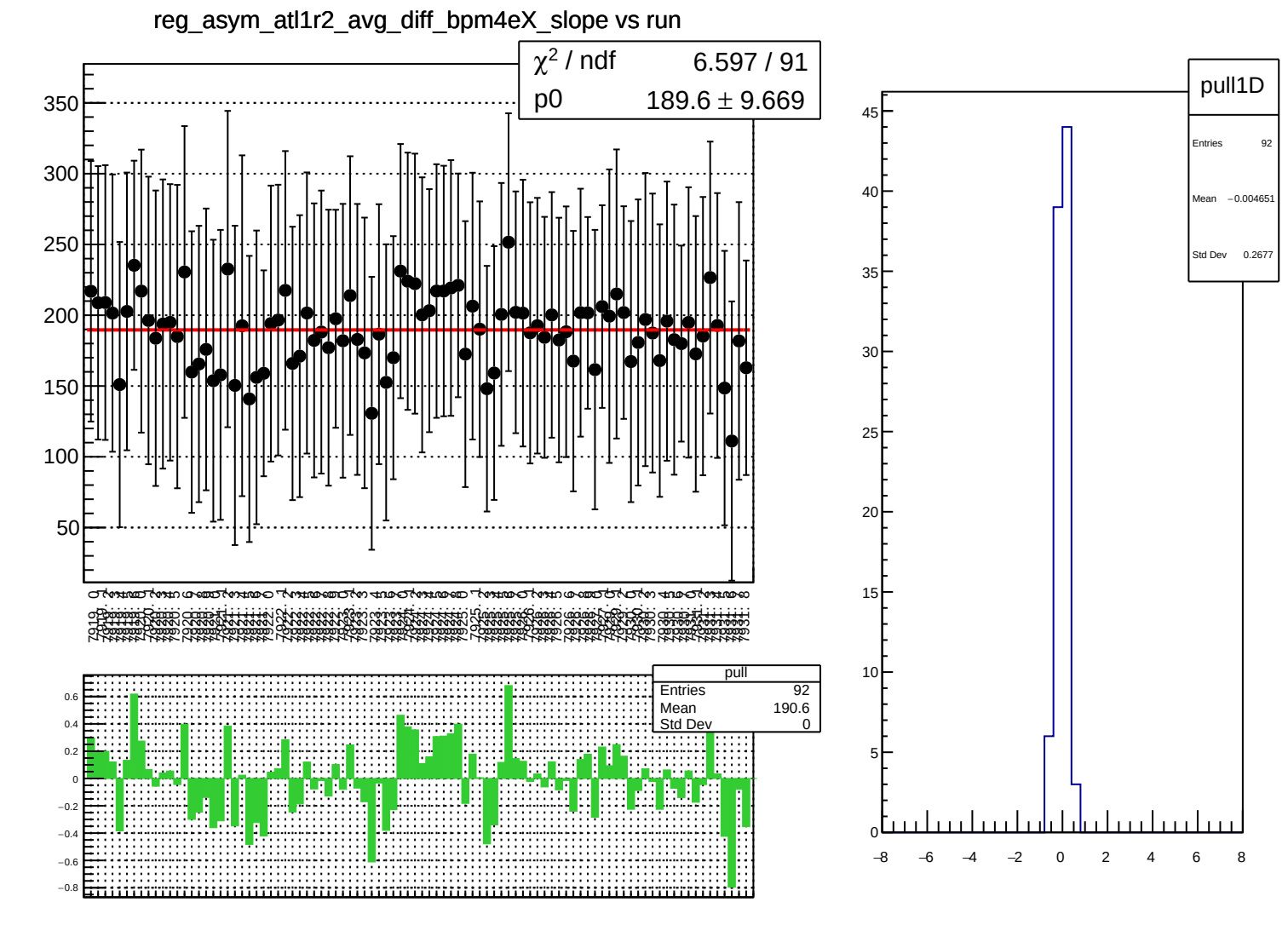

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 22.17 / 91
p0 −22.86 ± 0.1713
pull
Entries 92
Mean −250.6
Std Dev 0
pull1D
Entries 92
Mean 0.001196
Std Dev 0.4909

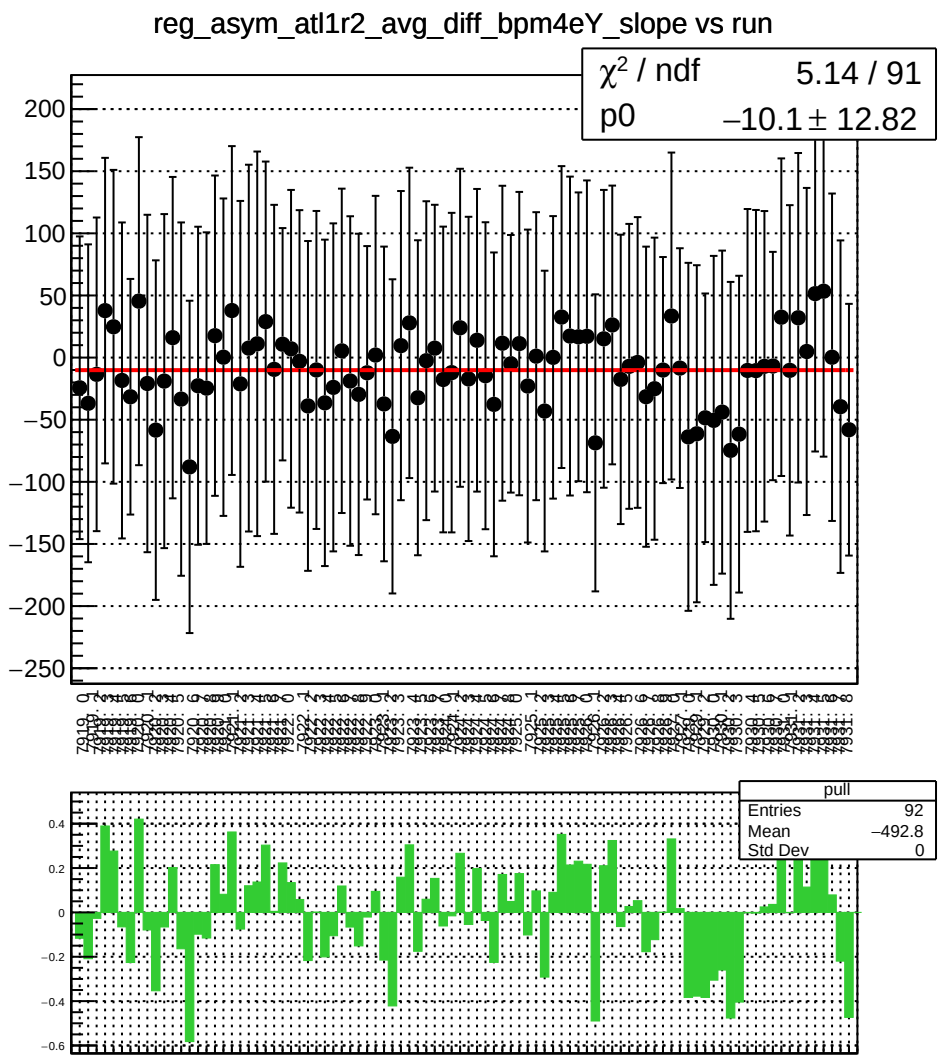

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 6.509 / 91
p0 −131.5 ± 10.81
pull
Entries 92
Mean 177.2
Std Dev 0

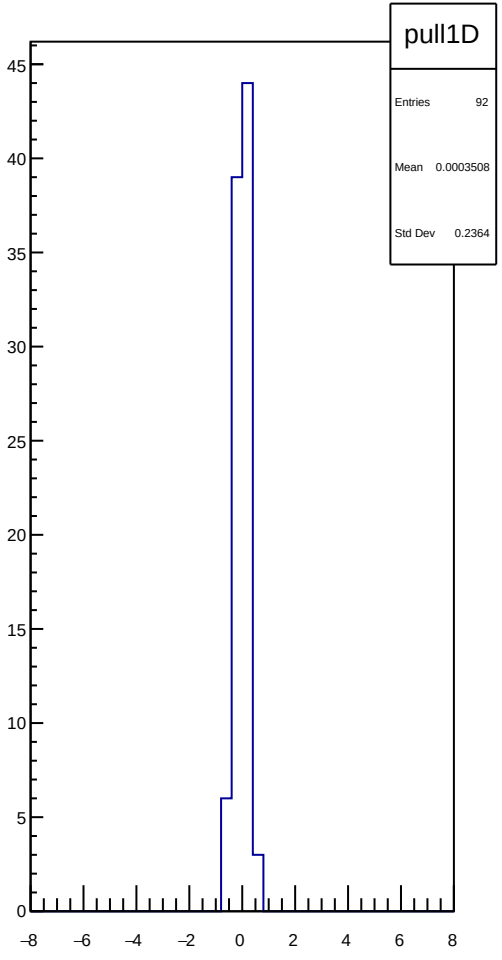

pull1D
Entries 92
Mean 0.004709
Std Dev 0.2659

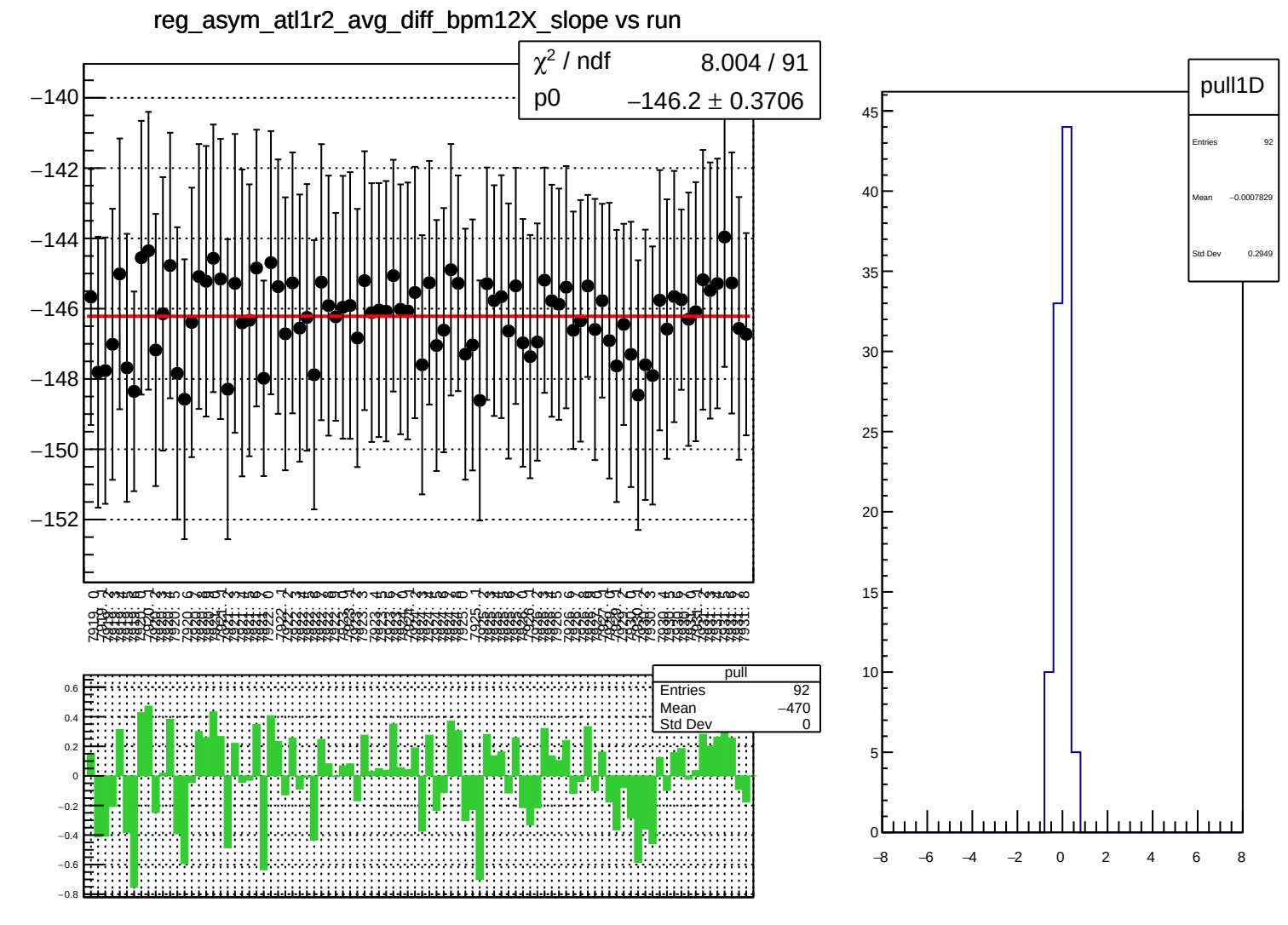

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.953 / 91
p0 57.16 ± 11.15
pull
Entries 92
Mean −530.6
Std Dev 0

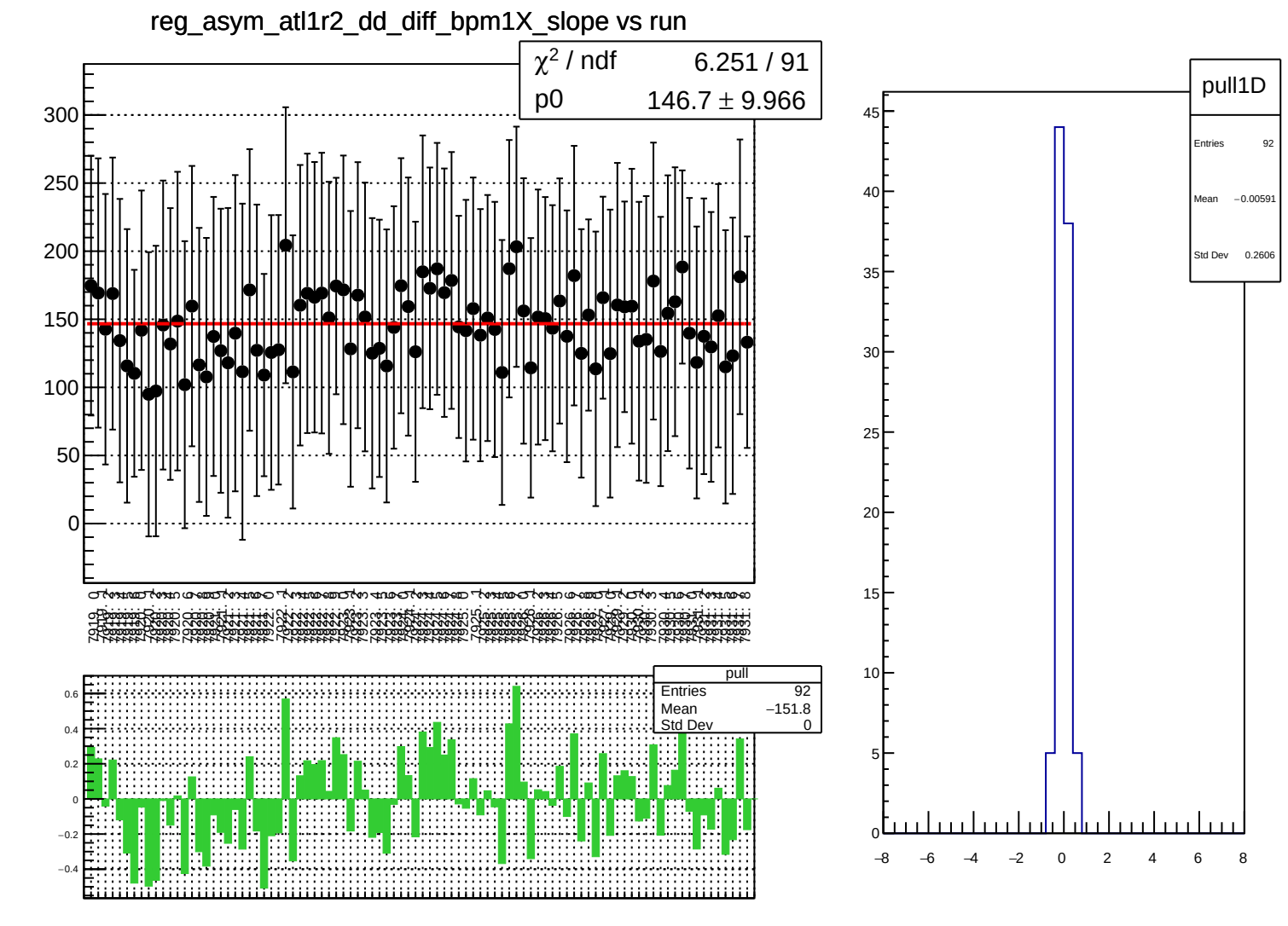

pull1D
Entries 92
Mean −0.000382
Std Dev 0.232

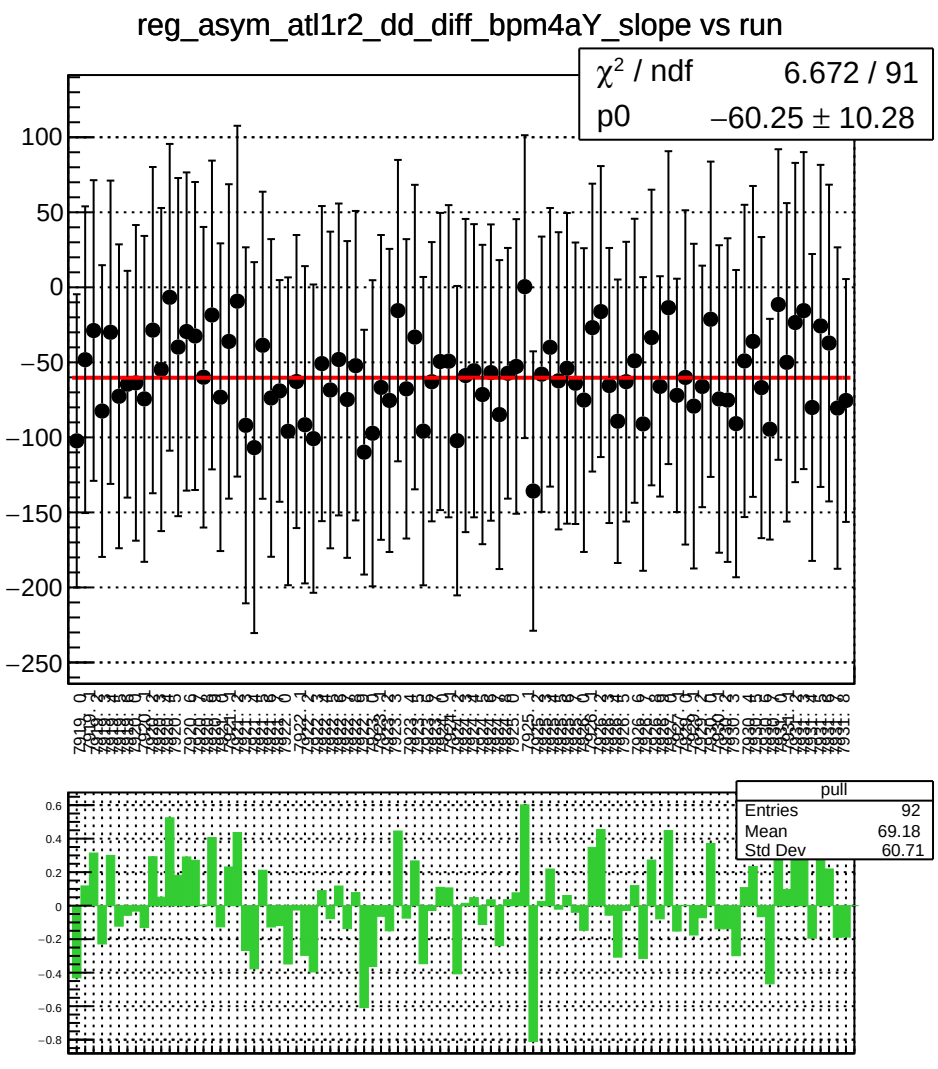

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.597 / 91
p0 189.6 ± 9.669
pull
Entries 92
Mean 190.6
Std Dev 0
pull1D
Entries 92
Mean −0.004651
Std Dev 0.2677

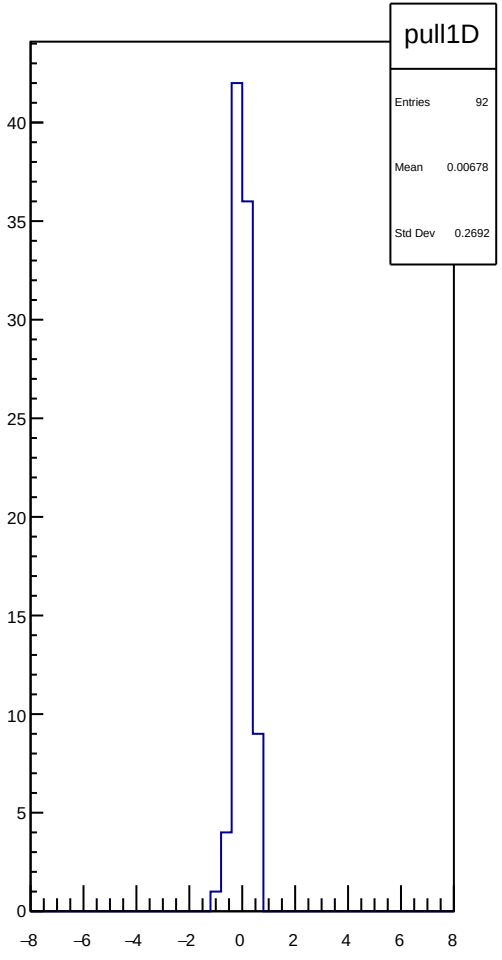

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.14 / 91
p0 −10.1 ± 12.82
pull
Entries 92
Mean −492.8
Std Dev 0

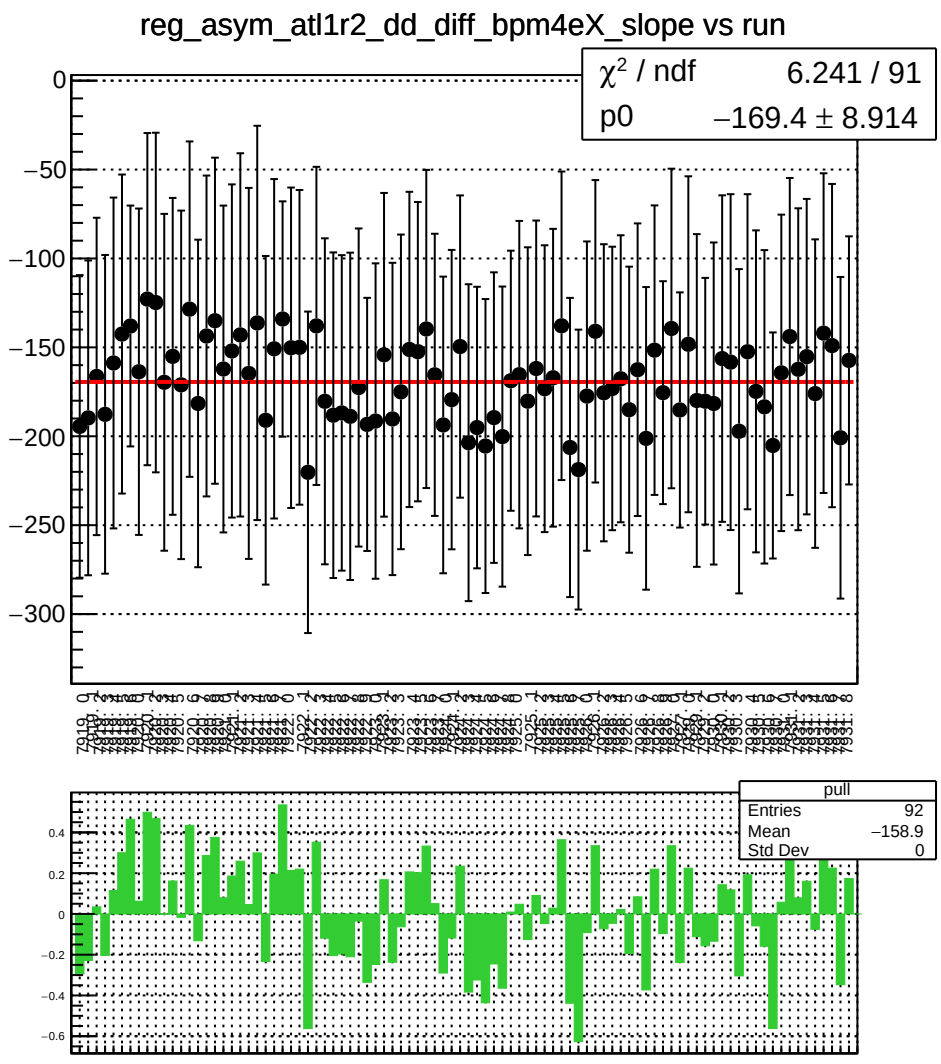

pull1D
Entries 92
Mean 0.0003508
Std Dev 0.2364

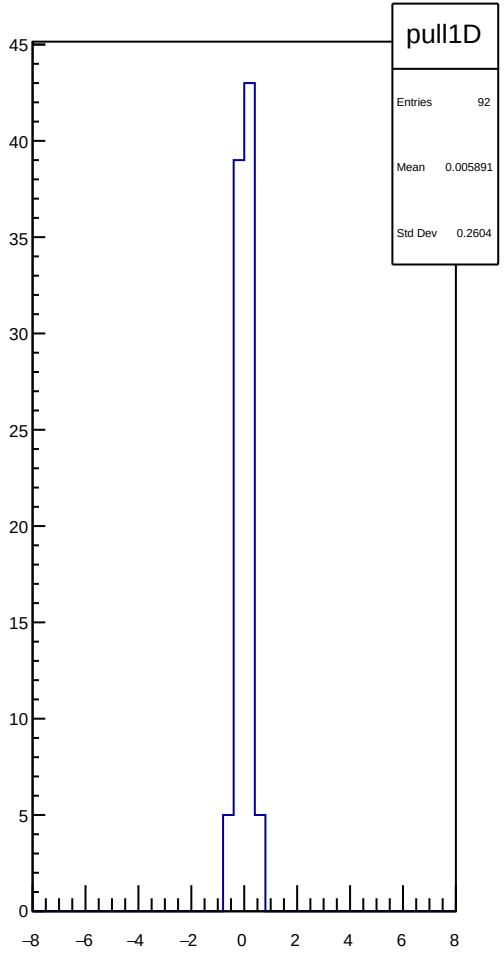

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 8.004 / 91
p0 −146.2 ± 0.3706
−140
−142
−144
−146
−148
−150
−152
pull
Entries 92
Mean −470
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 92
Mean −0.0007829
Std Dev 0.2949
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

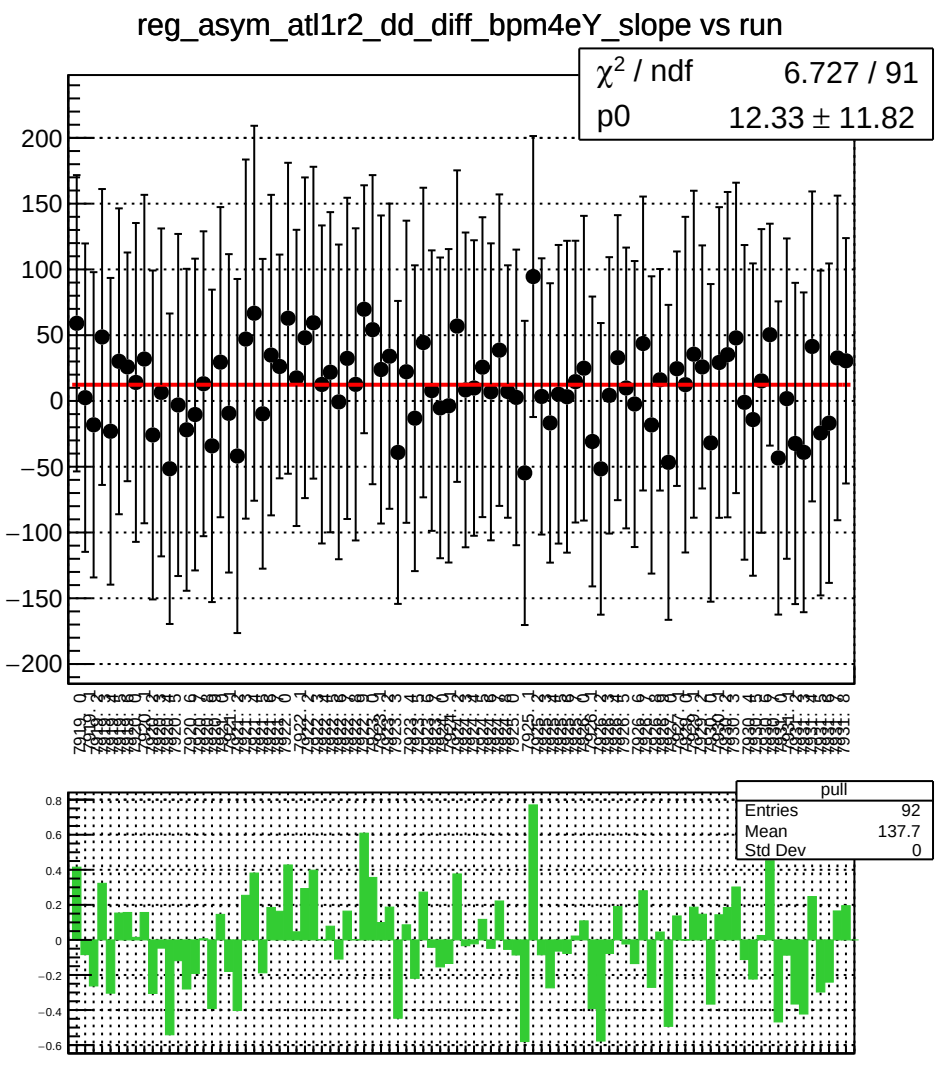

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 6.251 / 91
p0 146.7 ± 9.966
pull
Entries 92
Mean −151.8
Std Dev 0
pull1D
Entries 92
Mean −0.00591
Std Dev 0.2606

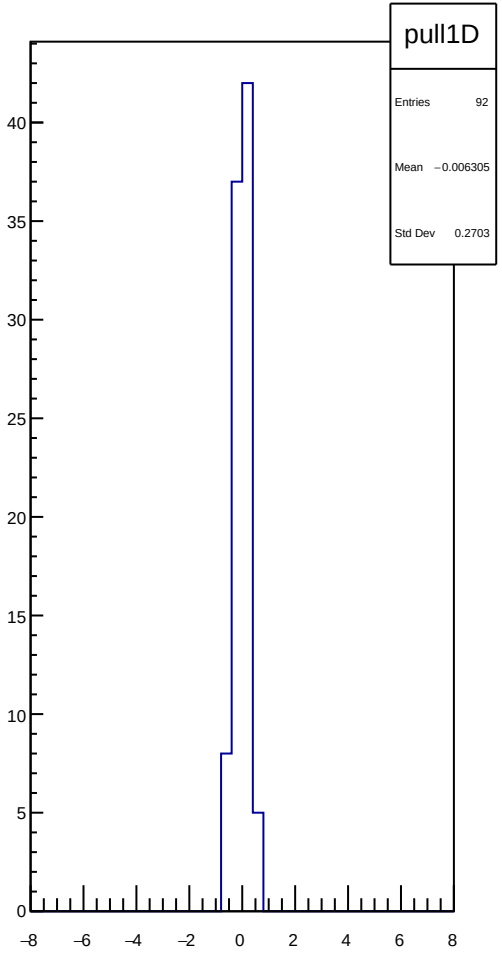

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.672 / 91
p0 −60.25 ± 10.28
pull
Entries 92
Mean 69.18
Std Dev 60.71

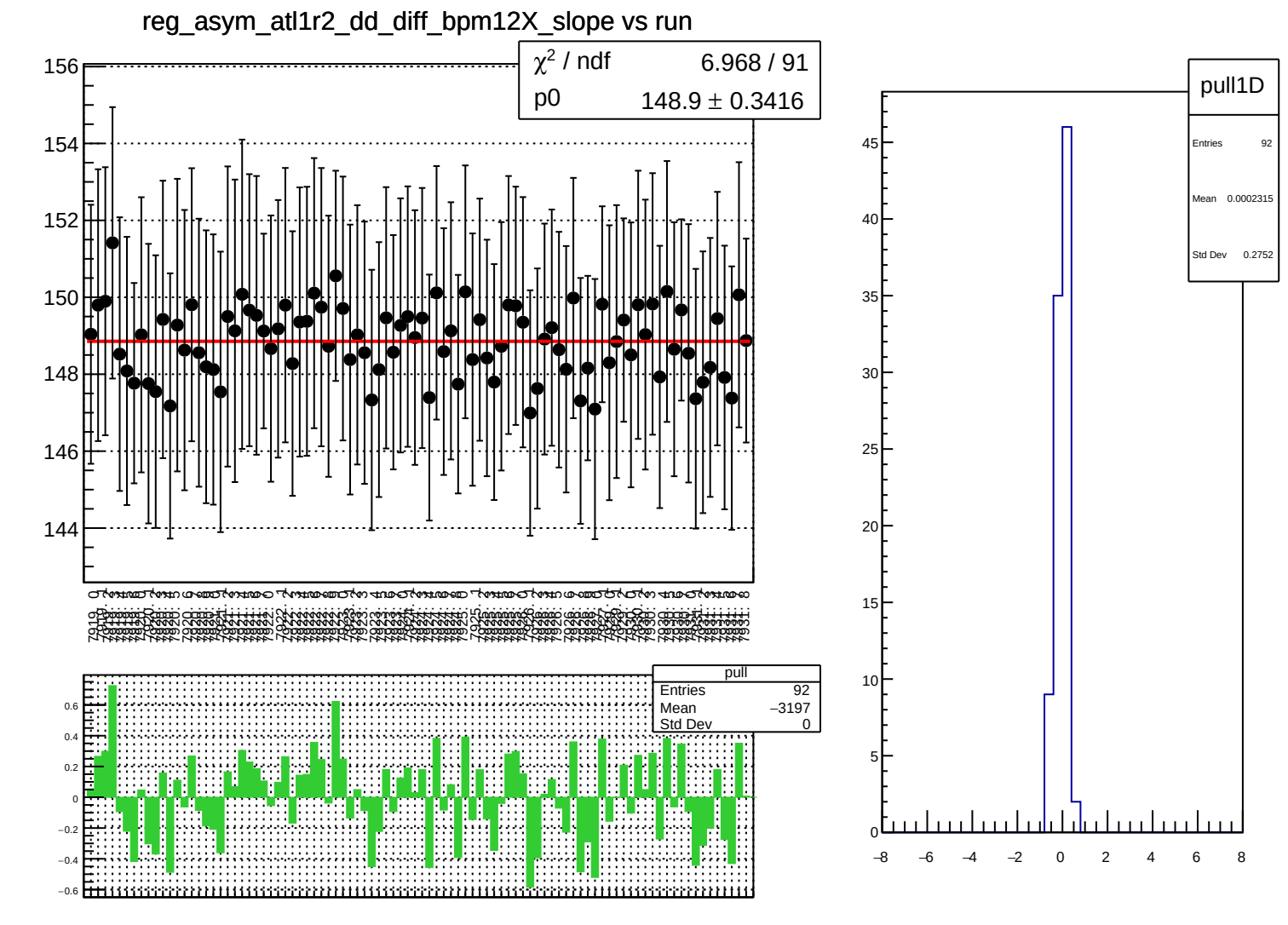

pull1D
Entries 92
Mean 0.00678
Std Dev 0.2692

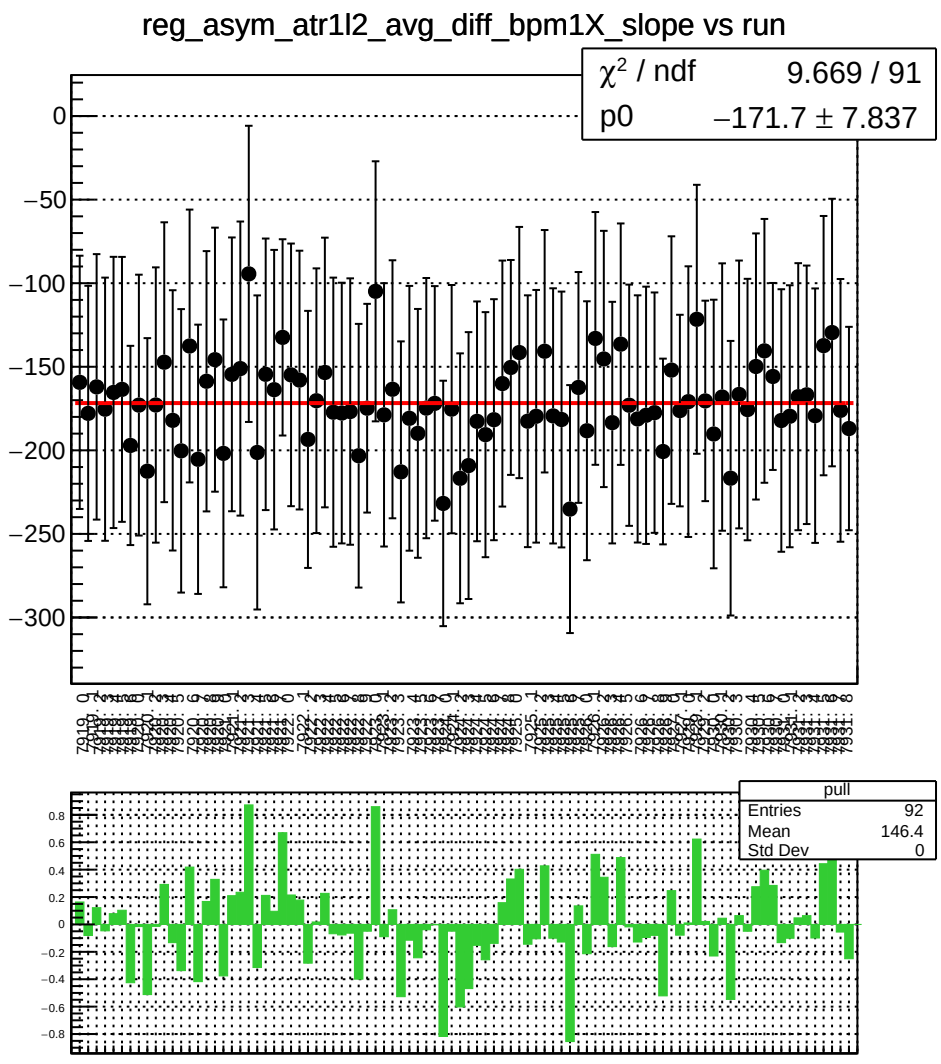

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.241 / 91
p0 −169.4 ± 8.914
pull
Entries 92
Mean −158.9
Std Dev 0

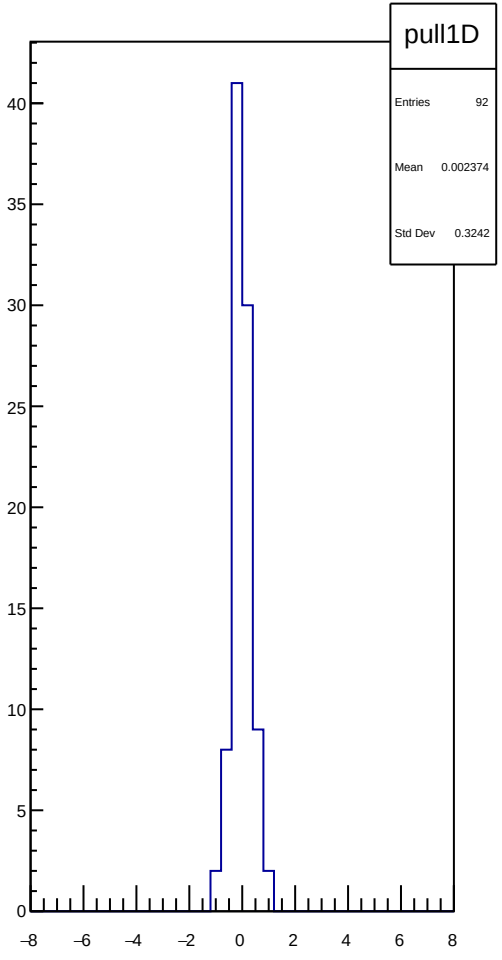

pull1D
Entries 92
Mean 0.005891
Std Dev 0.2604

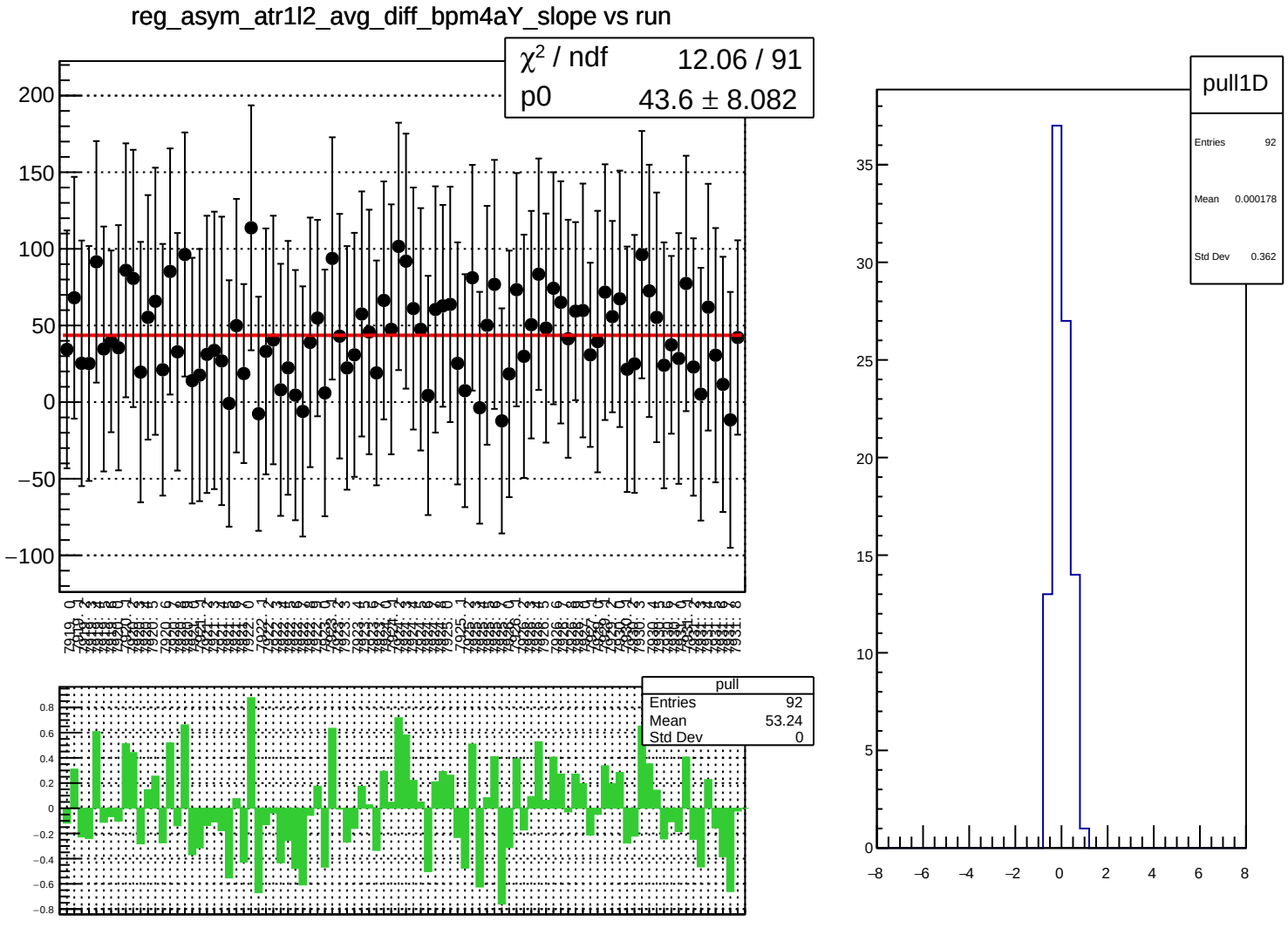

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.727 / 91
p0 12.33 ± 11.82
pull
Entries 92
Mean 137.7
Std Dev 0

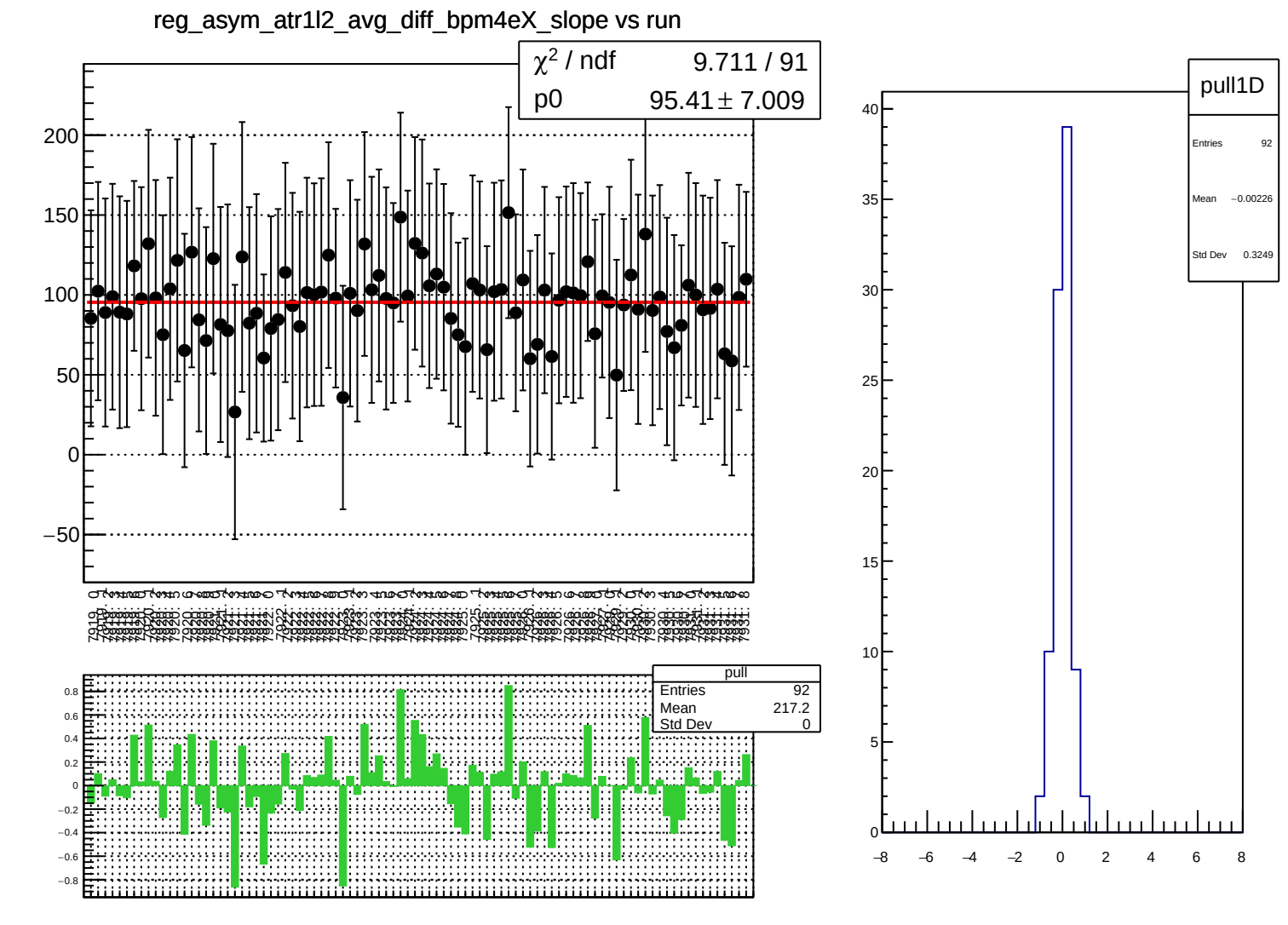

pull1D
Entries 92
Mean −0.006305
Std Dev 0.2703

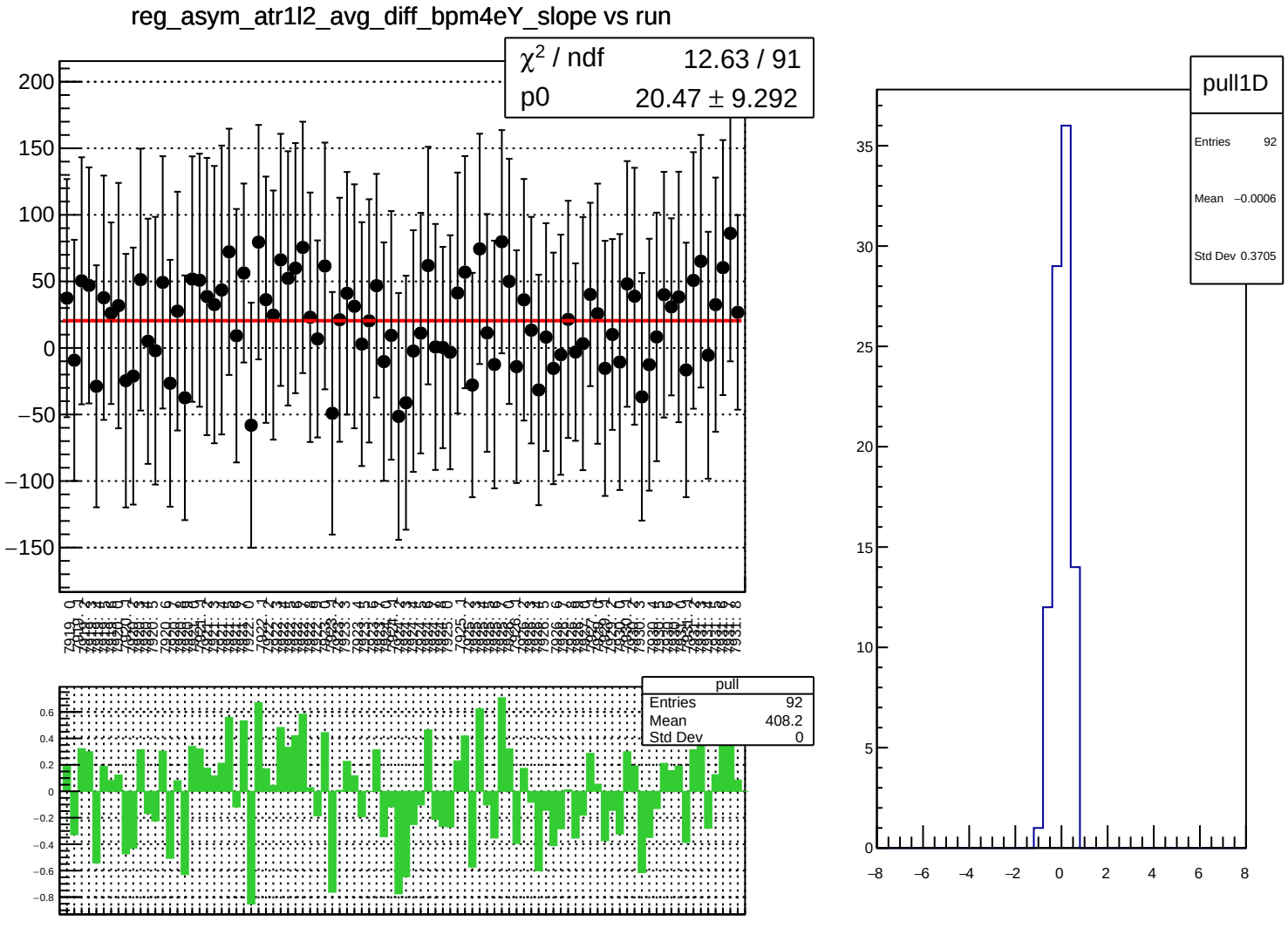

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 6.968 / 91
p0 148.9 ± 0.3416
pull
Entries 92
Mean −3197
Std Dev 0
pull1D
Entries 92
Mean 0.0002315
Std Dev 0.2752

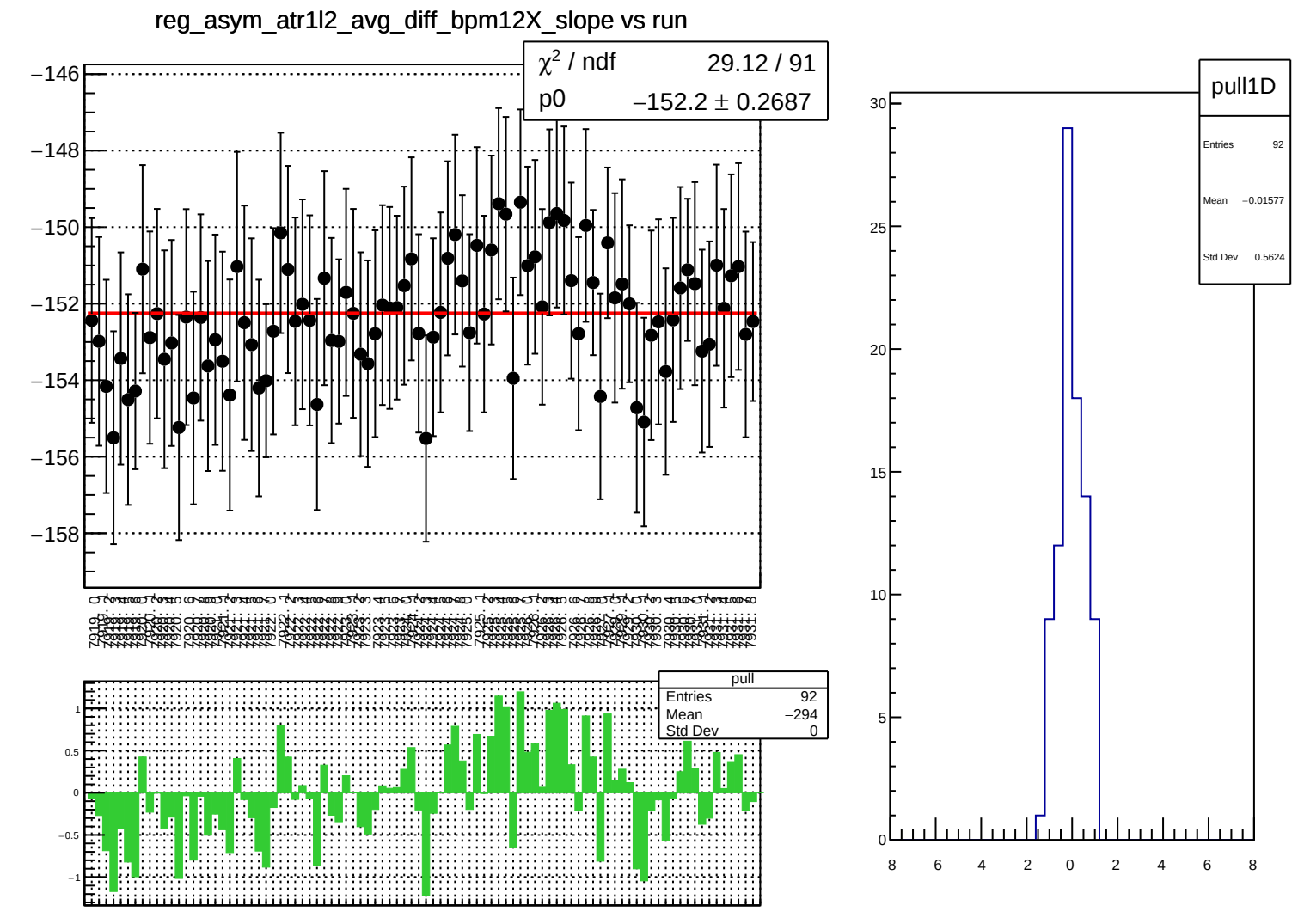

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 9.669 / 91
p0 −171.7 ± 7.837
pull
Entries 92
Mean 146.4
Std Dev 0

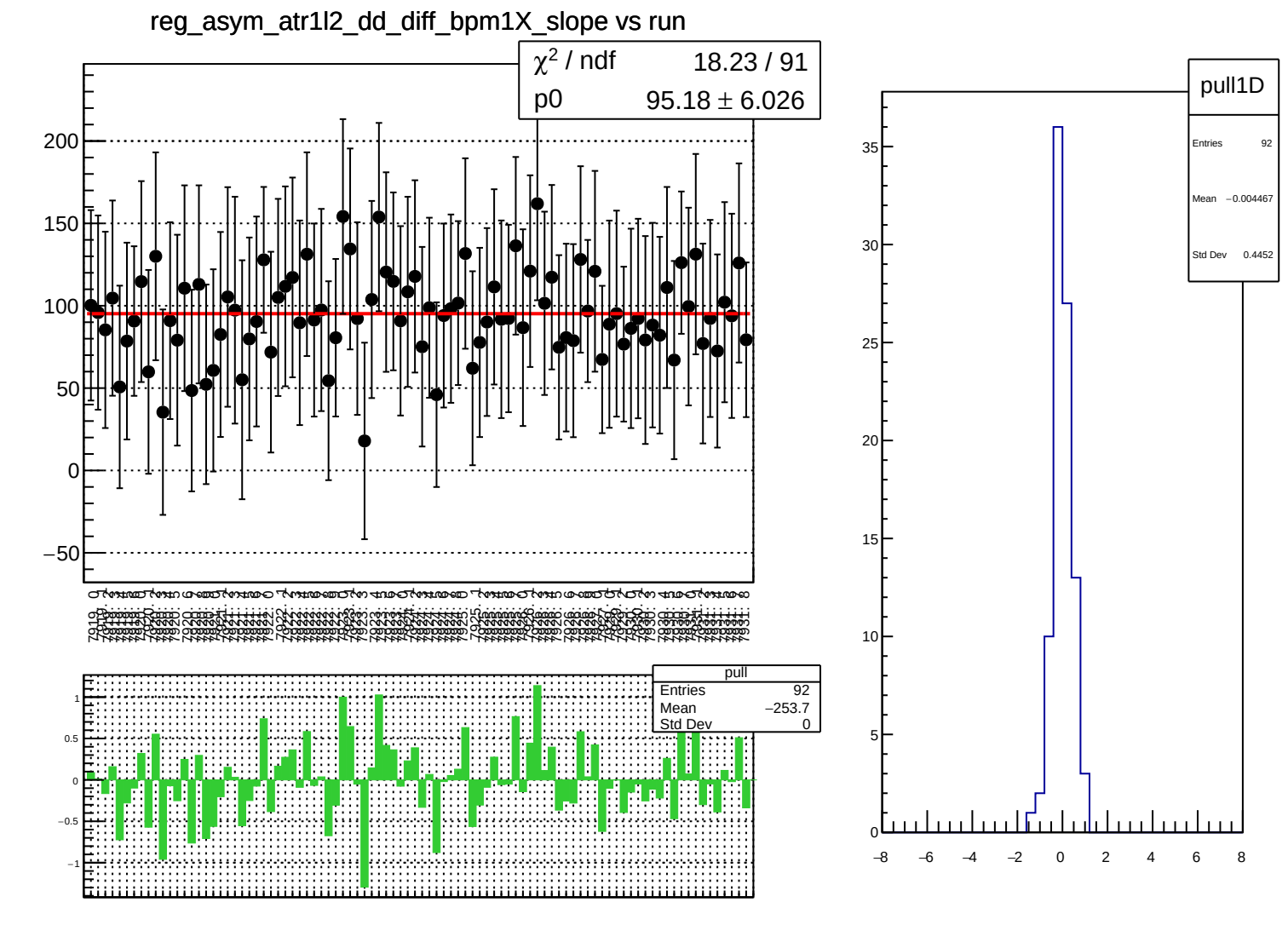

pull1D
Entries 92
Mean 0.002374
Std Dev 0.3242

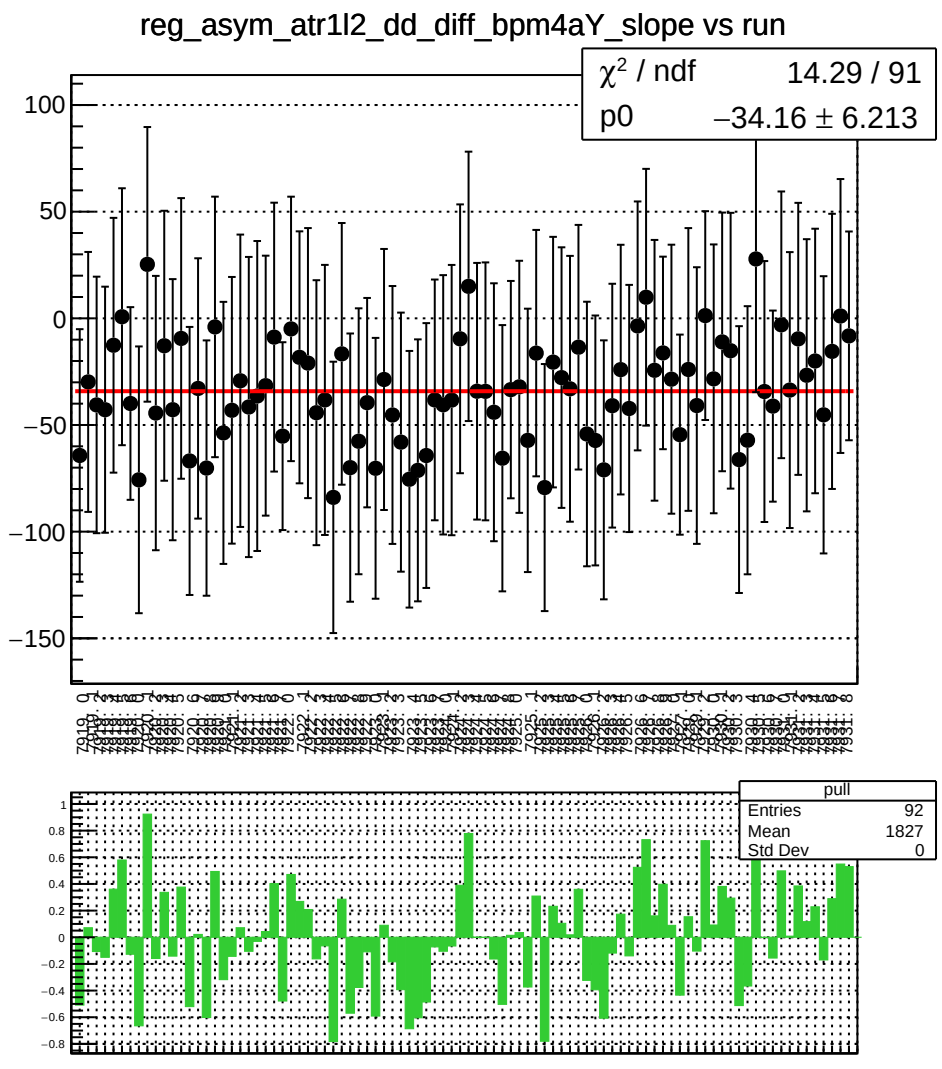

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 12.06 / 91
p0 43.6 ± 8.082
pull
Entries 92
Mean 53.24
Std Dev 0
pull1D
Entries 92
Mean 0.000178
Std Dev 0.362

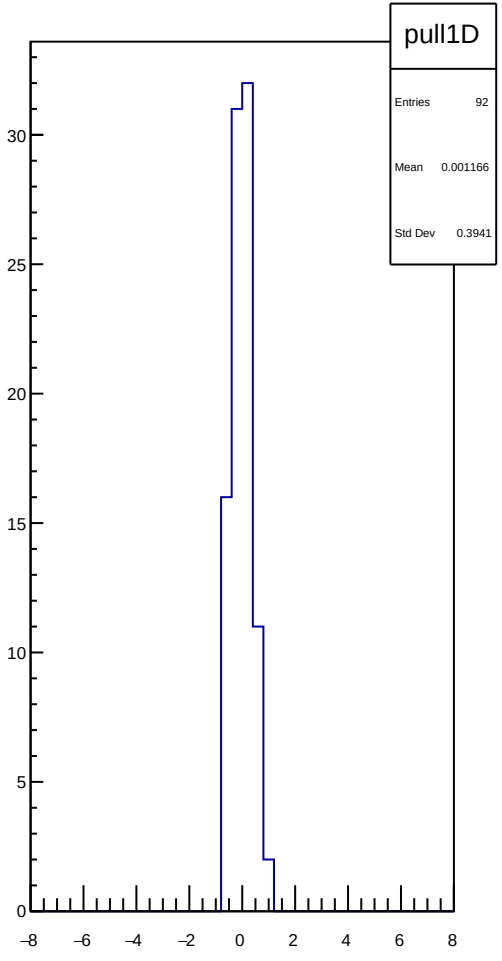

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.711 / 91
p0 95.41 ± 7.009
pull
Entries 92
Mean 217.2
Std Dev 0
pull1D
Entries 92
Mean −0.00226
Std Dev 0.3249

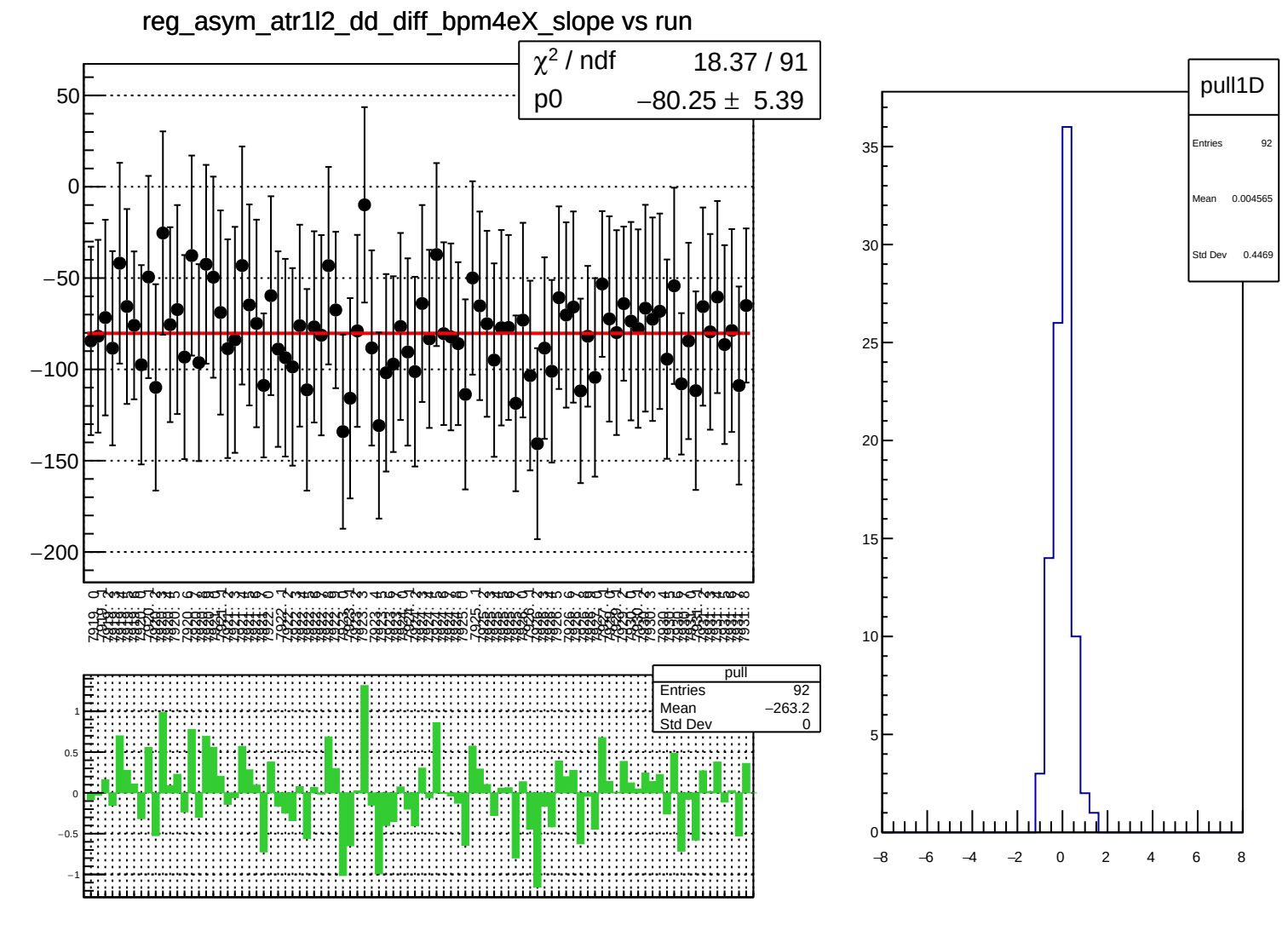

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 12.63 / 91
p0 20.47 ± 9.292
pull
Entries 92
Mean 408.2
Std Dev 0
pull1D
Entries 92
Mean −0.0006
Std Dev 0.3705

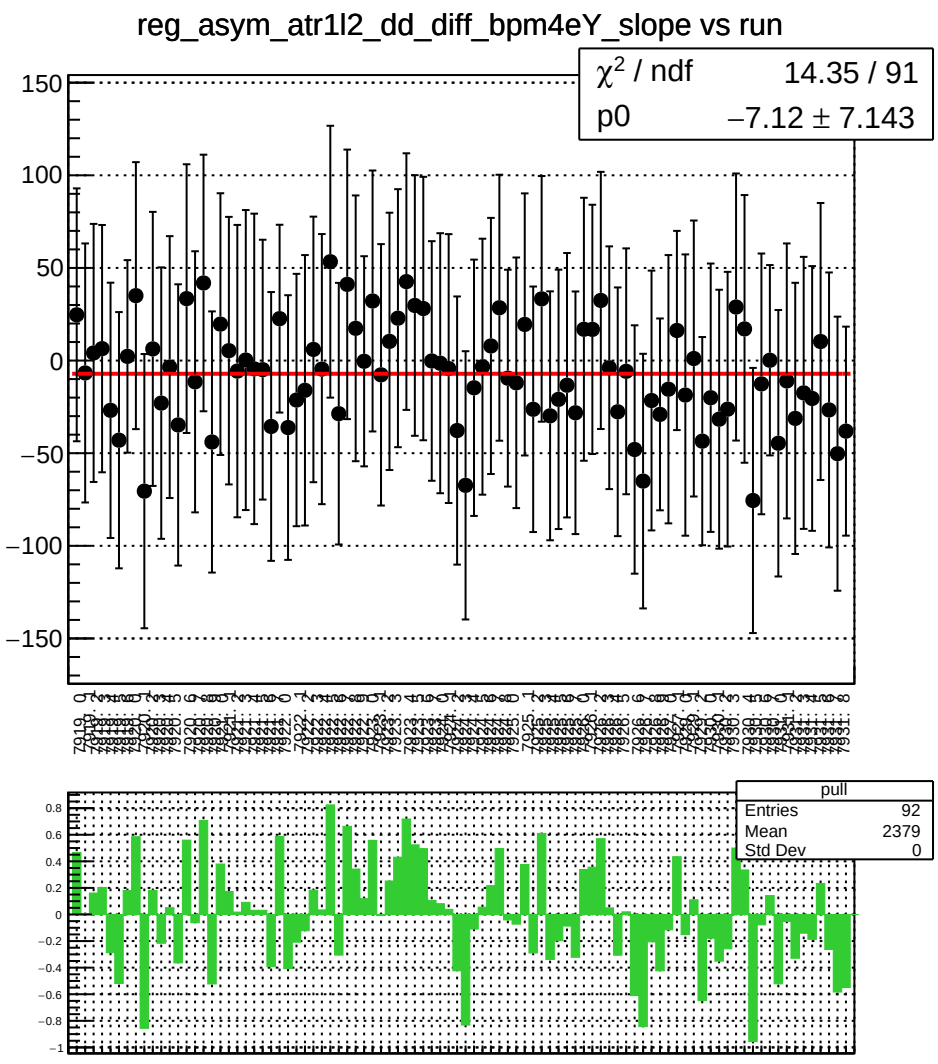

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 29.12 / 91
p0 −152.2 ± 0.2687
−146
−148
−150
−152
−154
−156
−158
pull
Entries 92
Mean −294
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 92
Mean −0.01577
Std Dev 0.5624
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

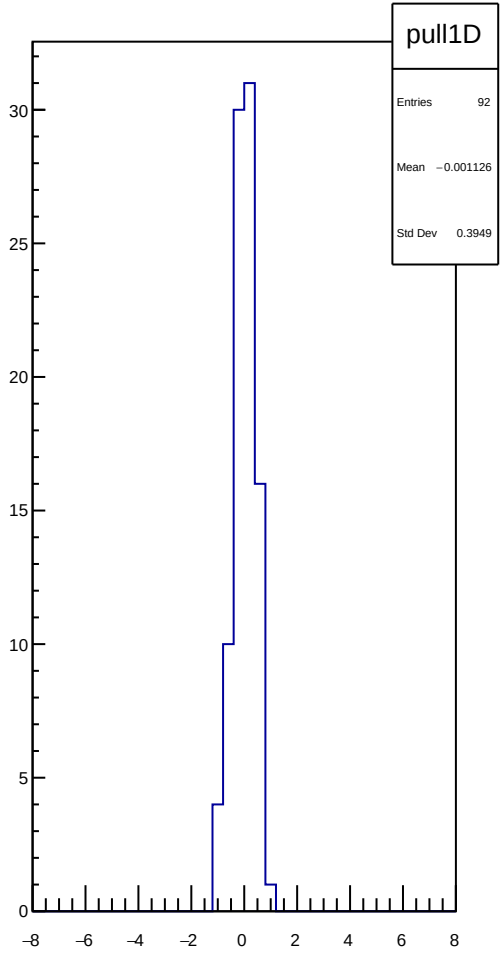

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 18.23 / 91
p0 95.18 ± 6.026
pull
Entries 92
Mean −253.7
Std Dev 0
pull1D
Entries 92
Mean −0.004467
Std Dev 0.4452

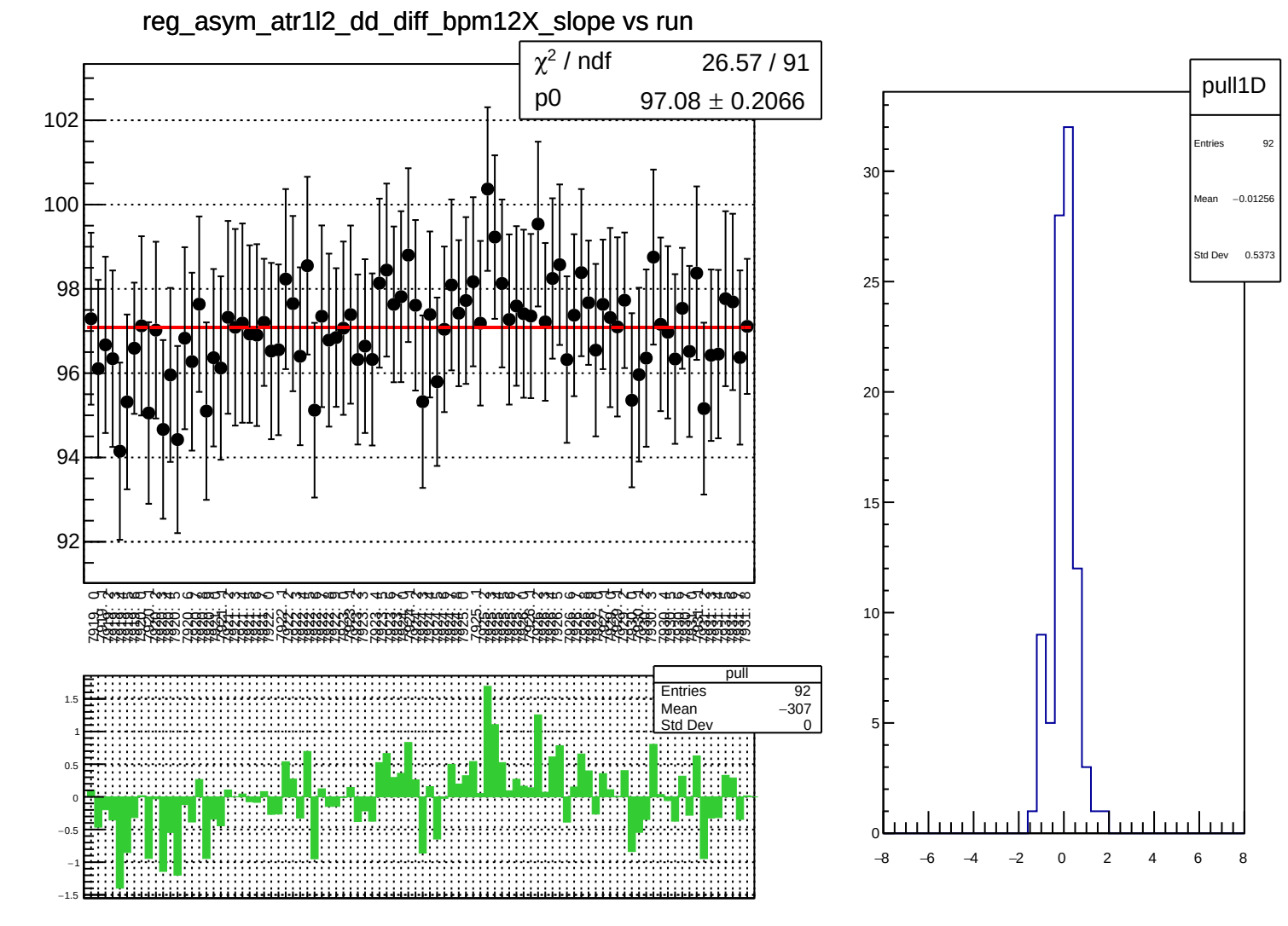

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.29 / 91
p0 −34.16 ± 6.213
pull
Entries 92
Mean 1827
Std Dev 0

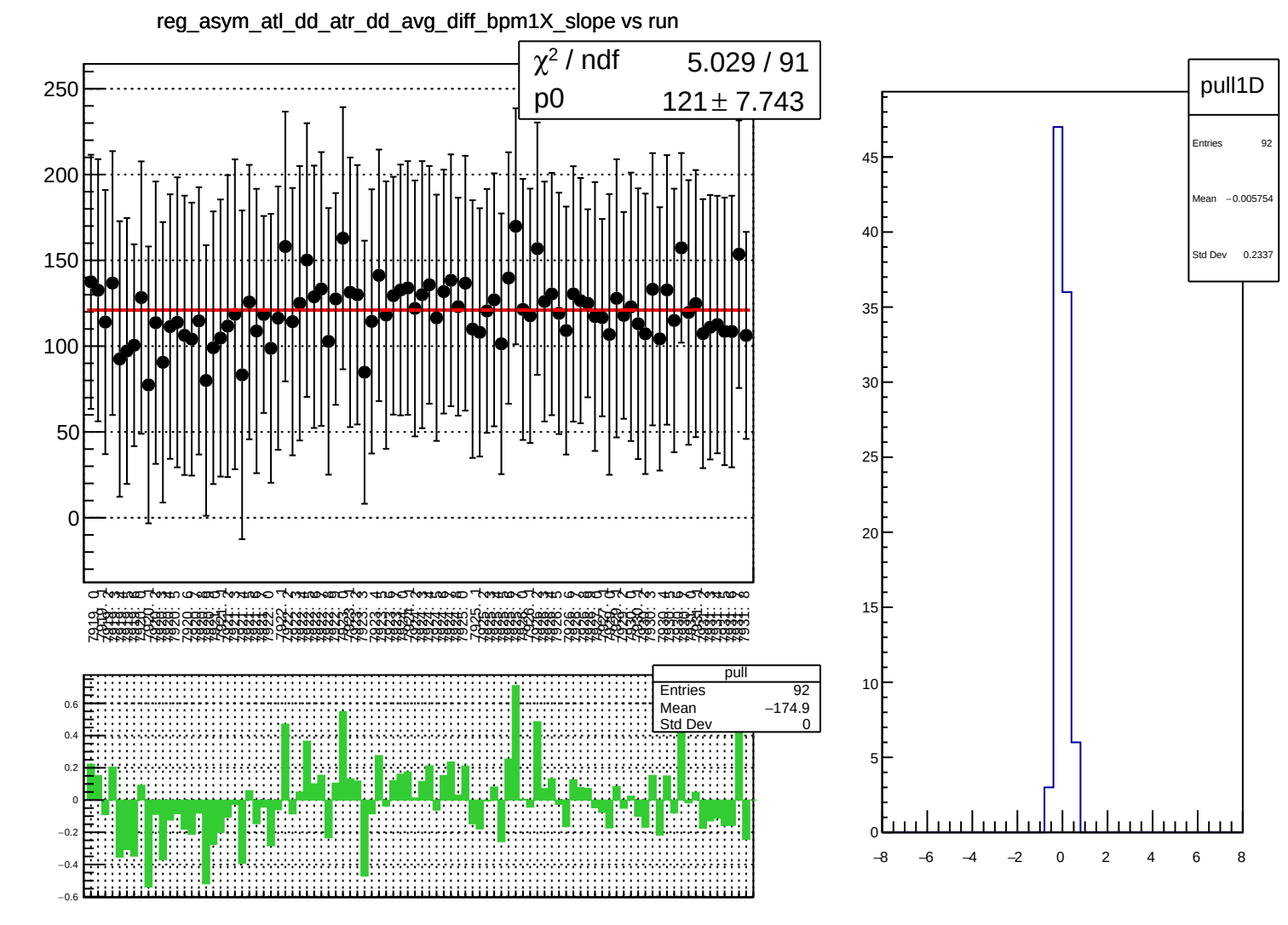

pull1D
Entries 92
Mean 0.001166
Std Dev 0.3941

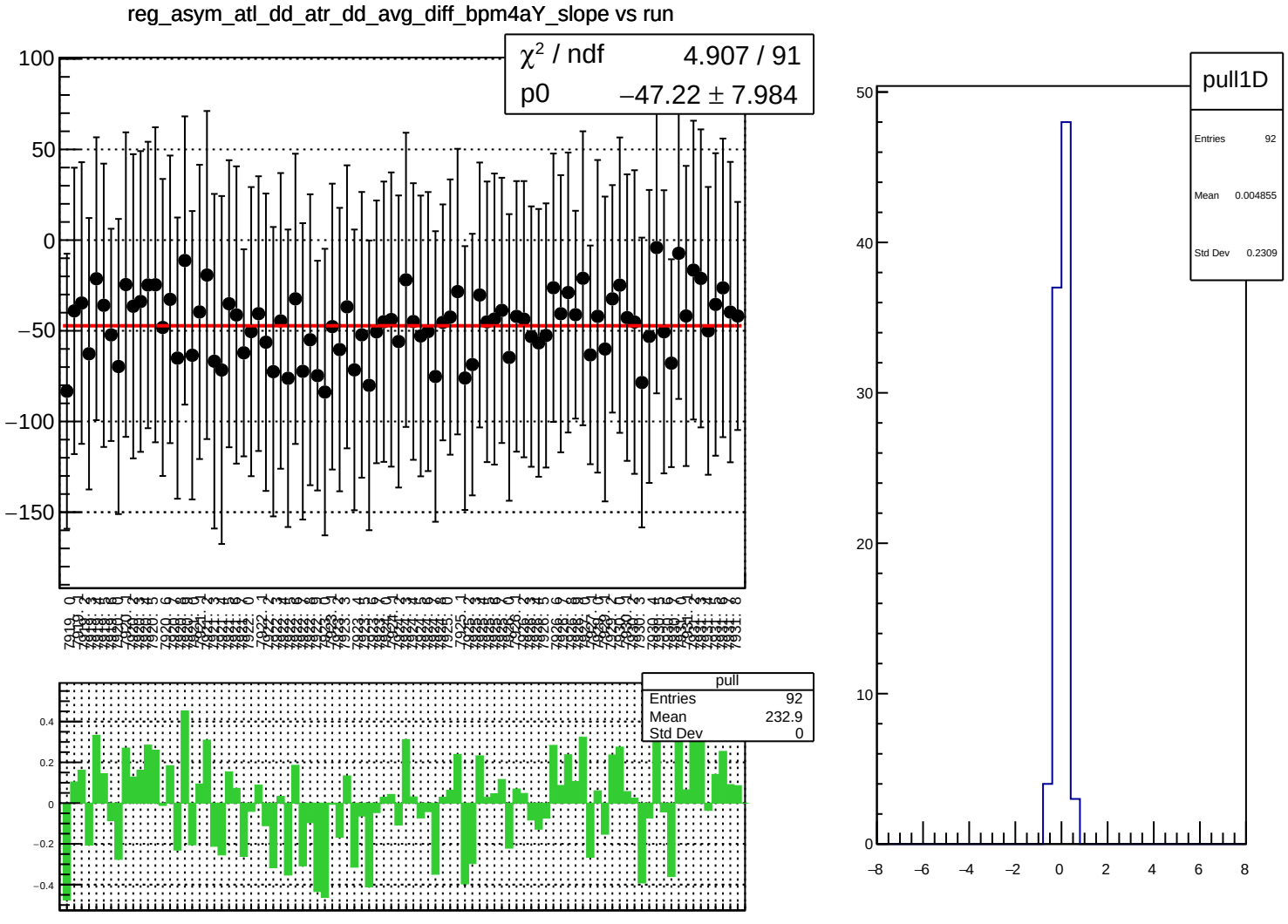

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 18.37 / 91
p0 −80.25 ± 5.39
pull
Entries 92
Mean −263.2
Std Dev 0
pull1D
Entries 92
Mean 0.004565
Std Dev 0.4469

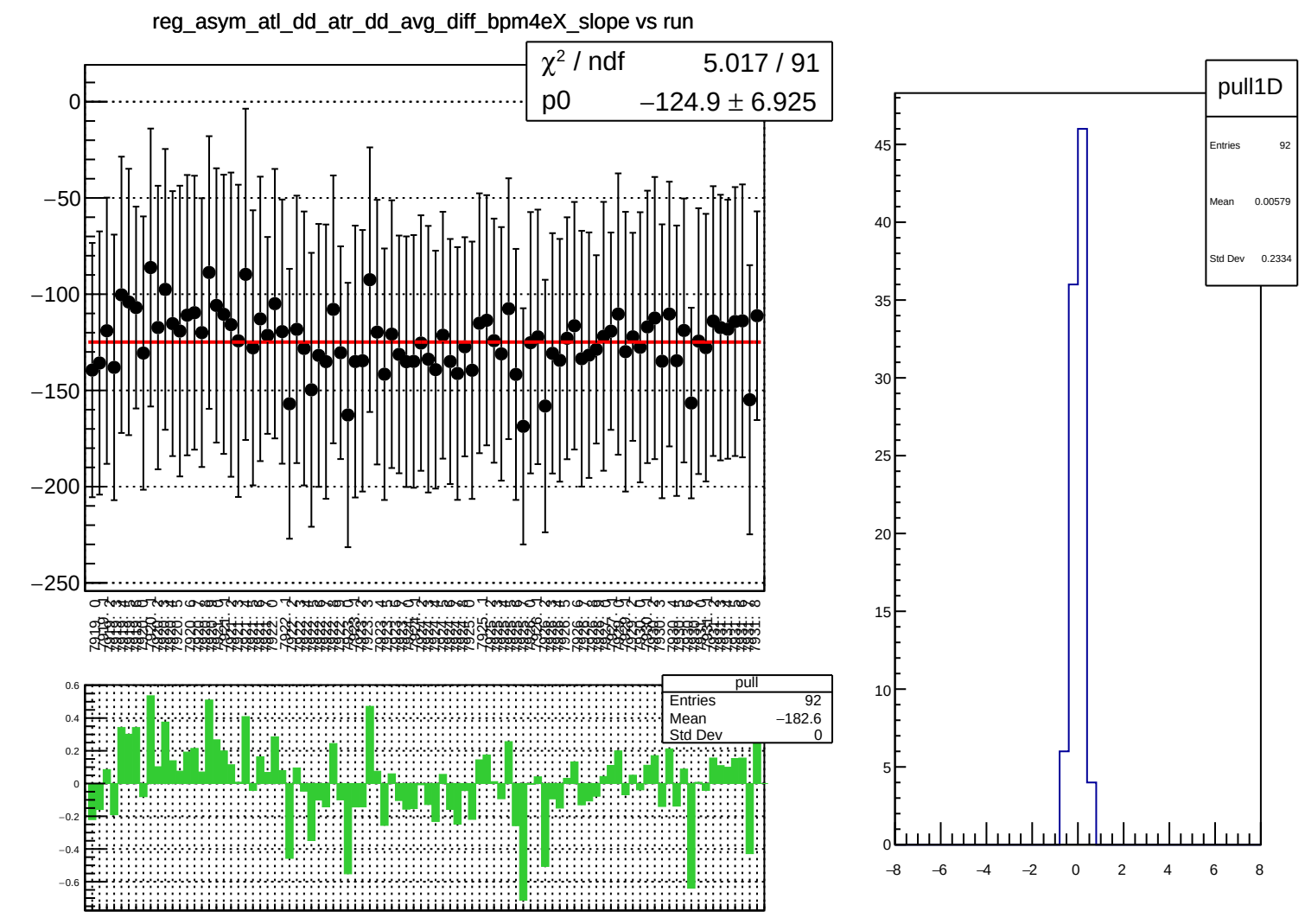

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ^2 / ndf 14.35 / 91
p0 −7.12 ± 7.143
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean 2379
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

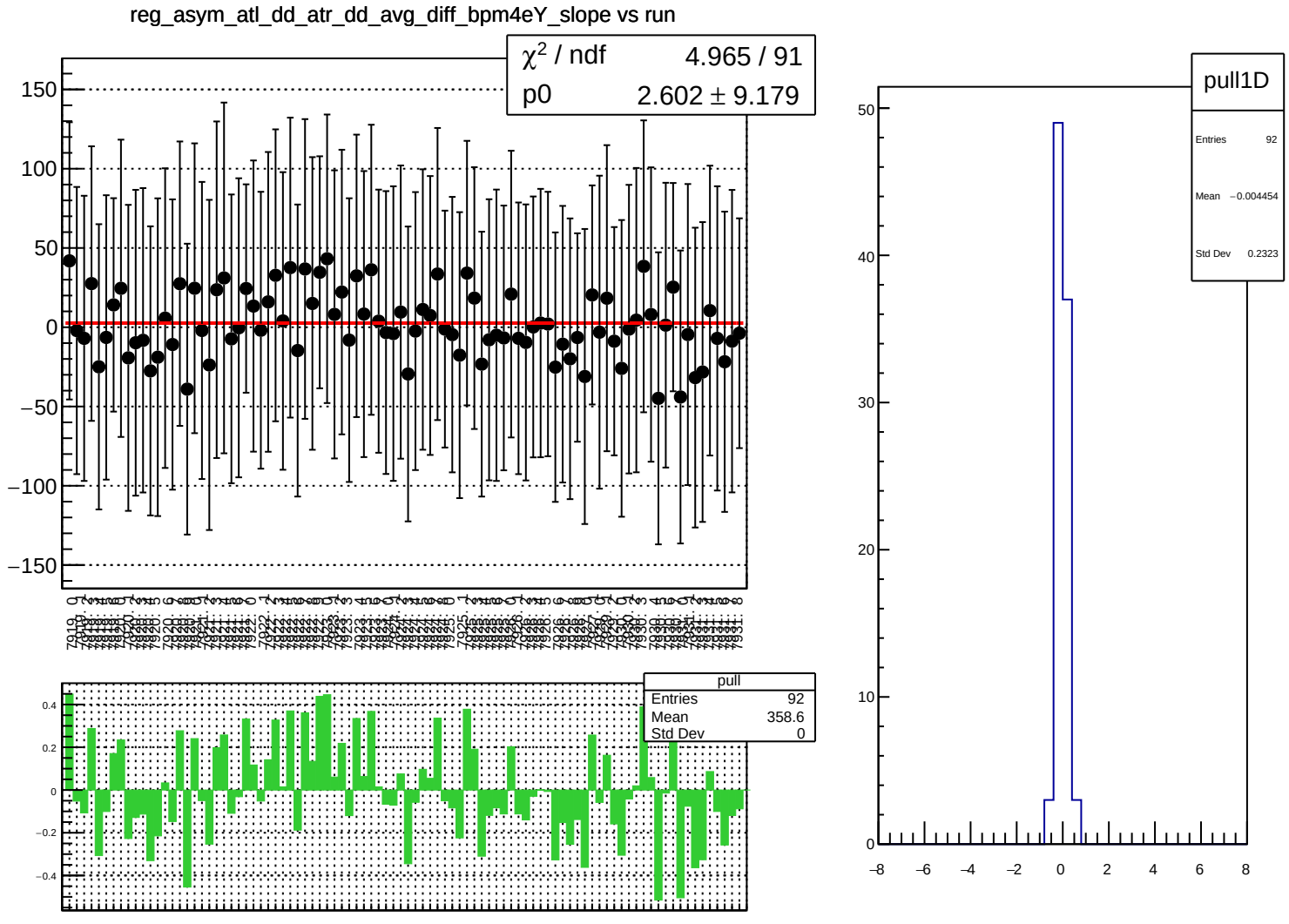

pull1D
Entries 92
Mean −0.001126
Std Dev 0.3949
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

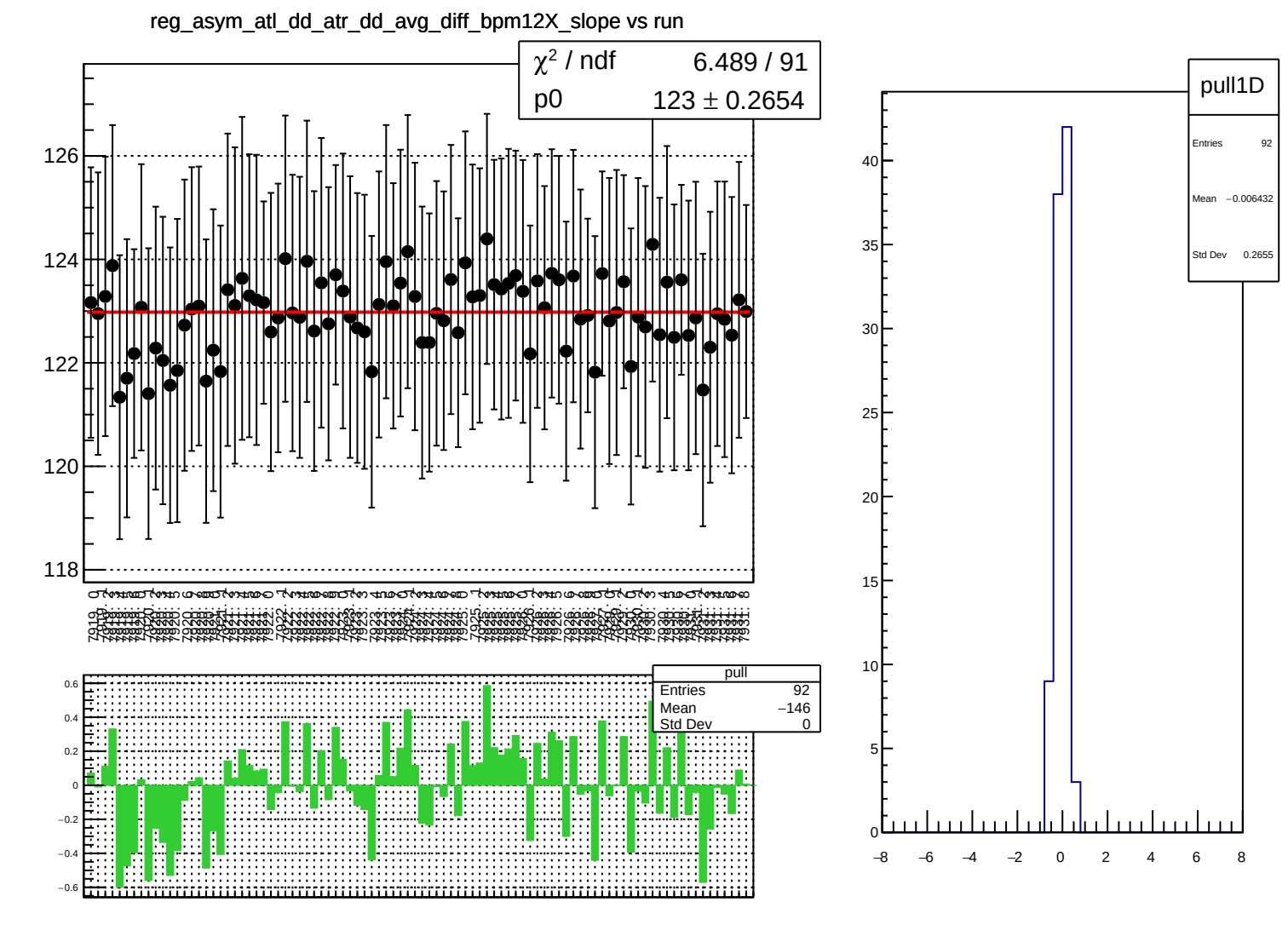

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 26.57 / 91
p0 97.08 ± 0.2066
pull
Entries 92
Mean −307
Std Dev 0
pull1D
Entries 92
Mean −0.01256
Std Dev 0.5373

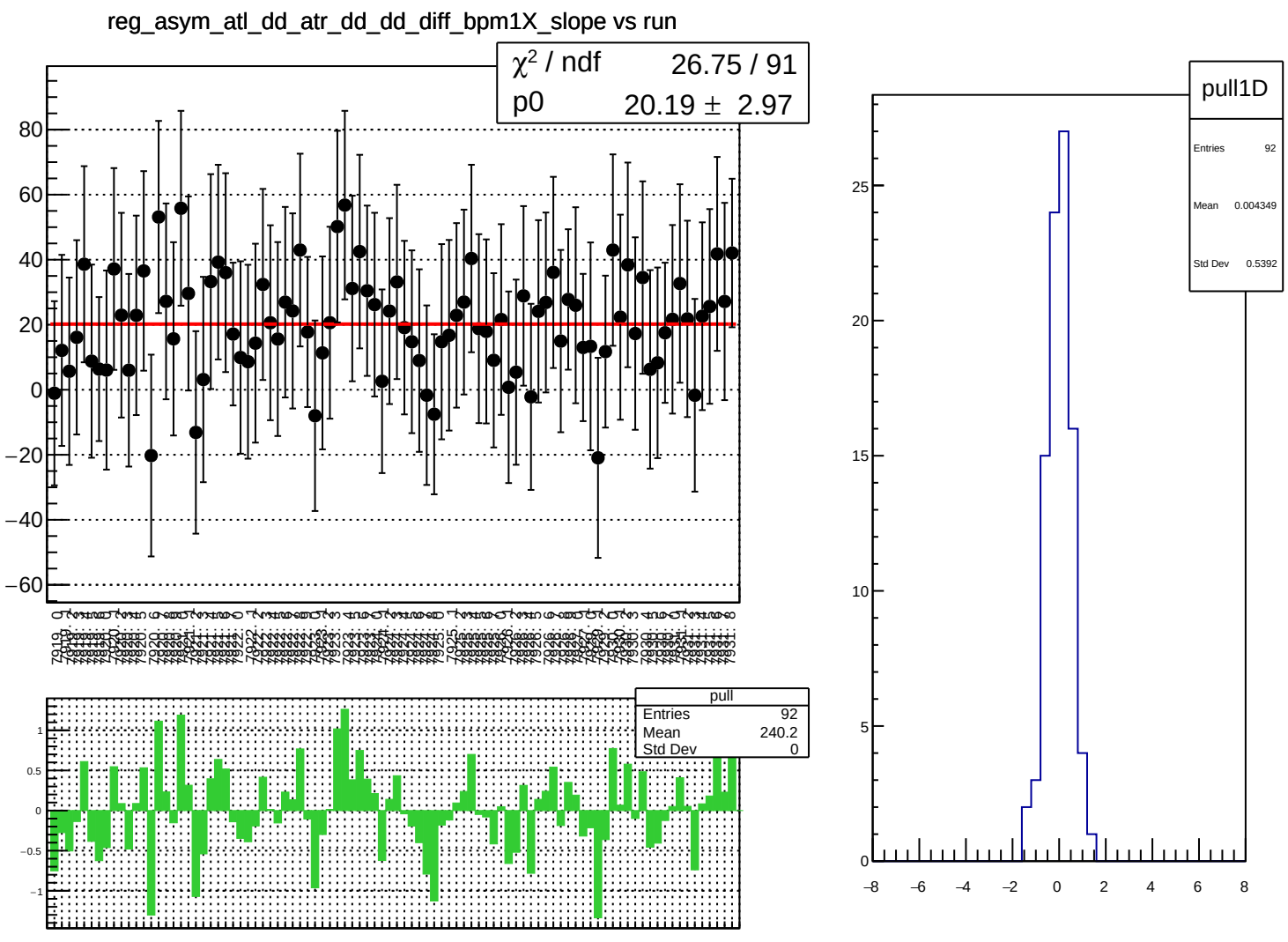

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 5.029 / 91
p0 121 ± 7.743
250
200
150
100
50
0
pull
Entries 92
Mean −174.9
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 92
Mean −0.005754
Std Dev 0.2337
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

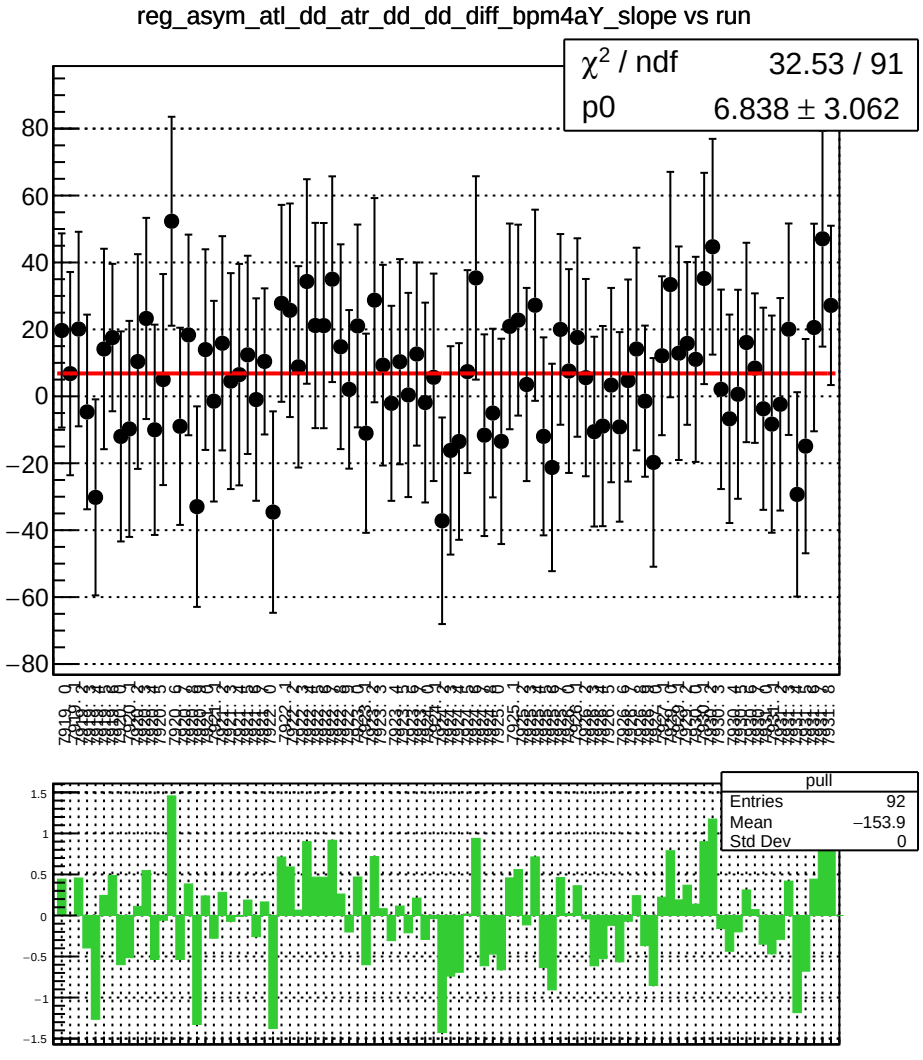

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.907 / 91
p0 −47.22 ± 7.984
pull
Entries 92
Mean 232.9
Std Dev 0
pull1D
Entries 92
Mean 0.004855
Std Dev 0.2309

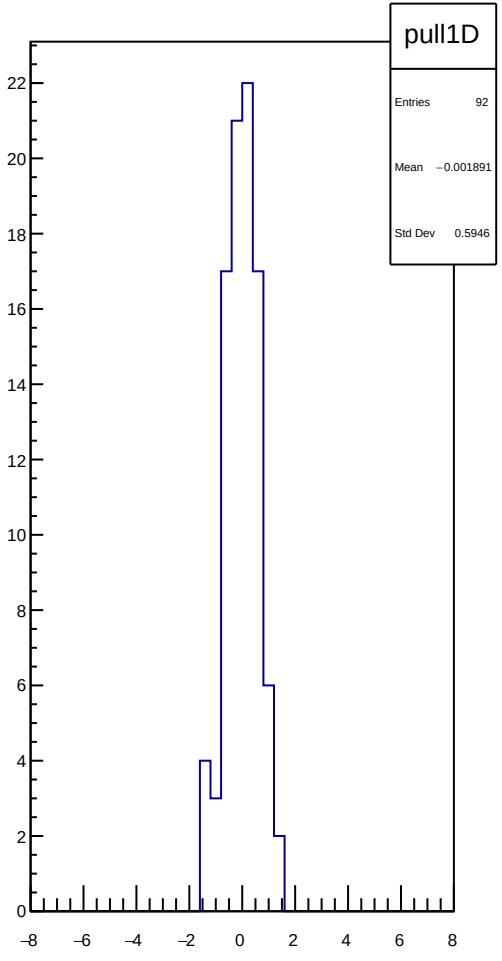

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 5.017 / 91
p0 −124.9 ± 6.925
pull
Entries 92
Mean −182.6
Std Dev 0
pull1D
Entries 92
Mean 0.00579
Std Dev 0.2334

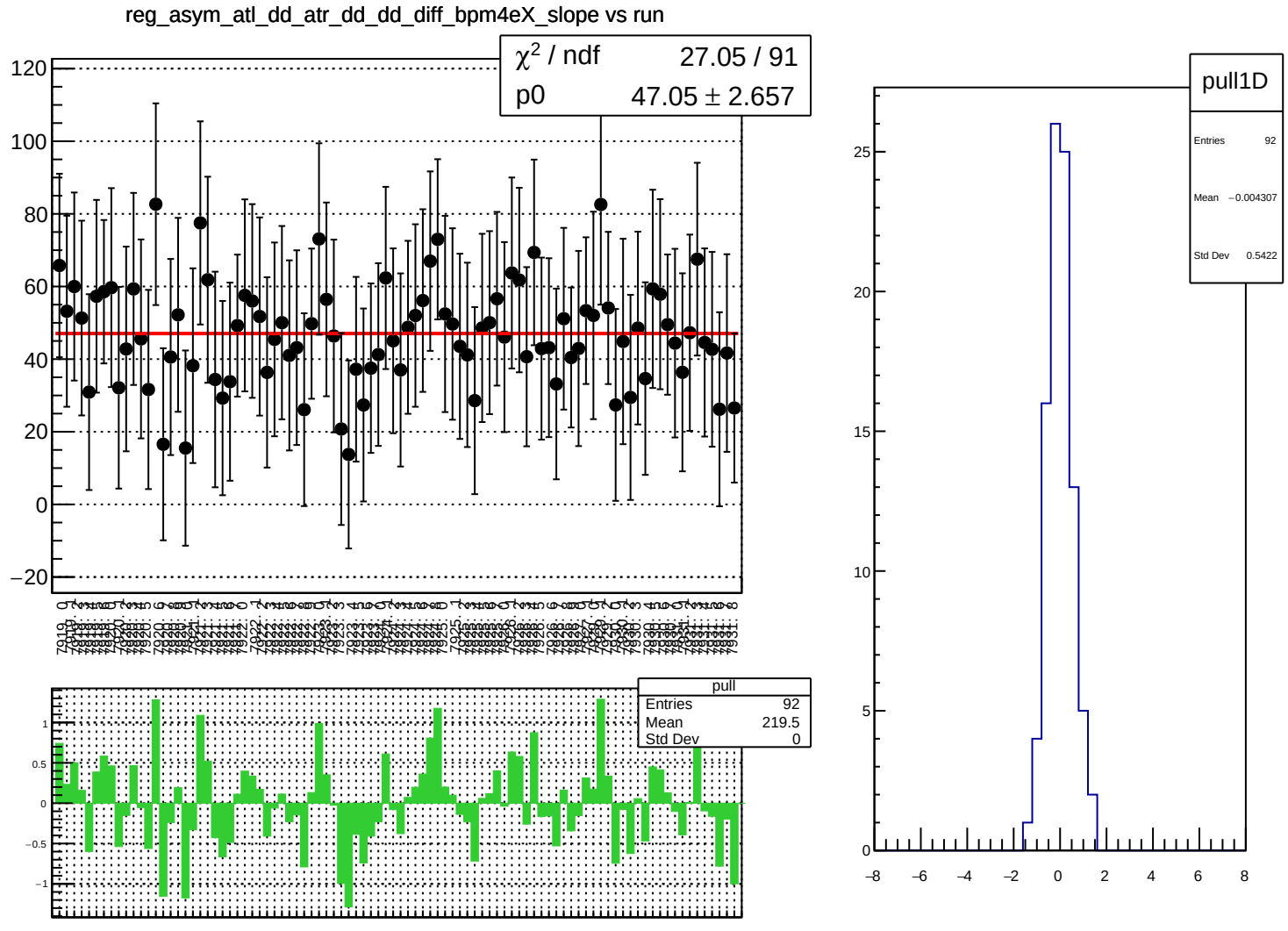

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.965 / 91
p0 2.602 ± 9.179
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean 358.6
Std Dev 0
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 92
Mean −0.004454
Std Dev 0.2323
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

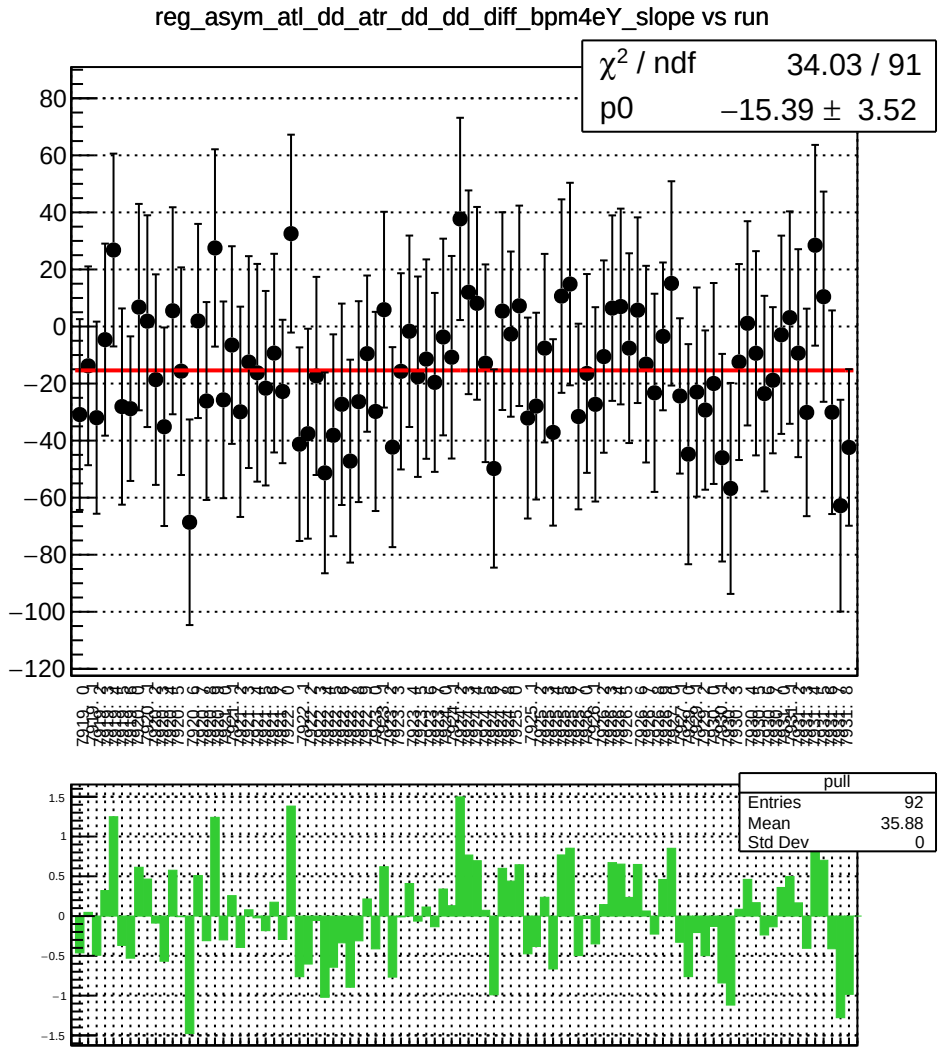

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 6.489 / 91
p0 123 ± 0.2654
126
124
122
120
118
pull
Entries 92
Mean −146
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 92
Mean −0.006432
Std Dev 0.2655
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

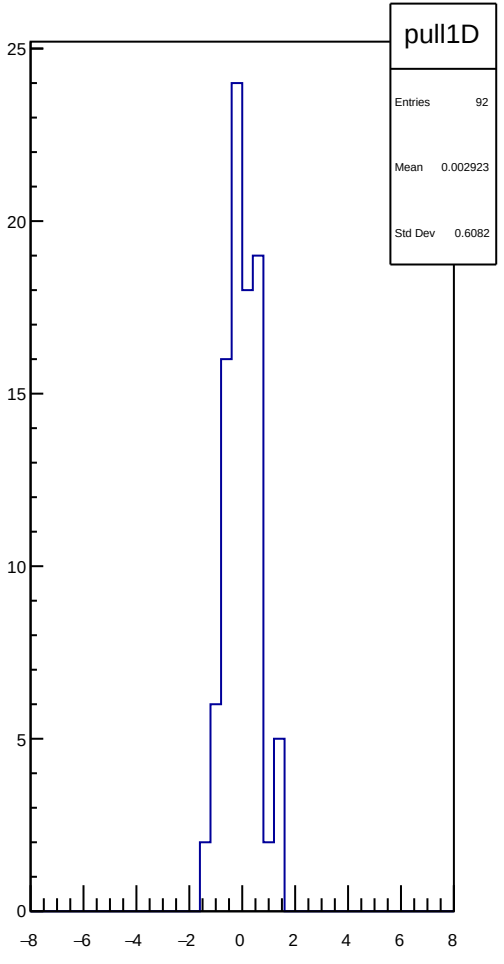

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 26.75 / 91
p0 20.19 ± 2.97
pull
Entries 92
Mean 240.2
Std Dev 0
pull1D
Entries 92
Mean 0.004349
Std Dev 0.5392

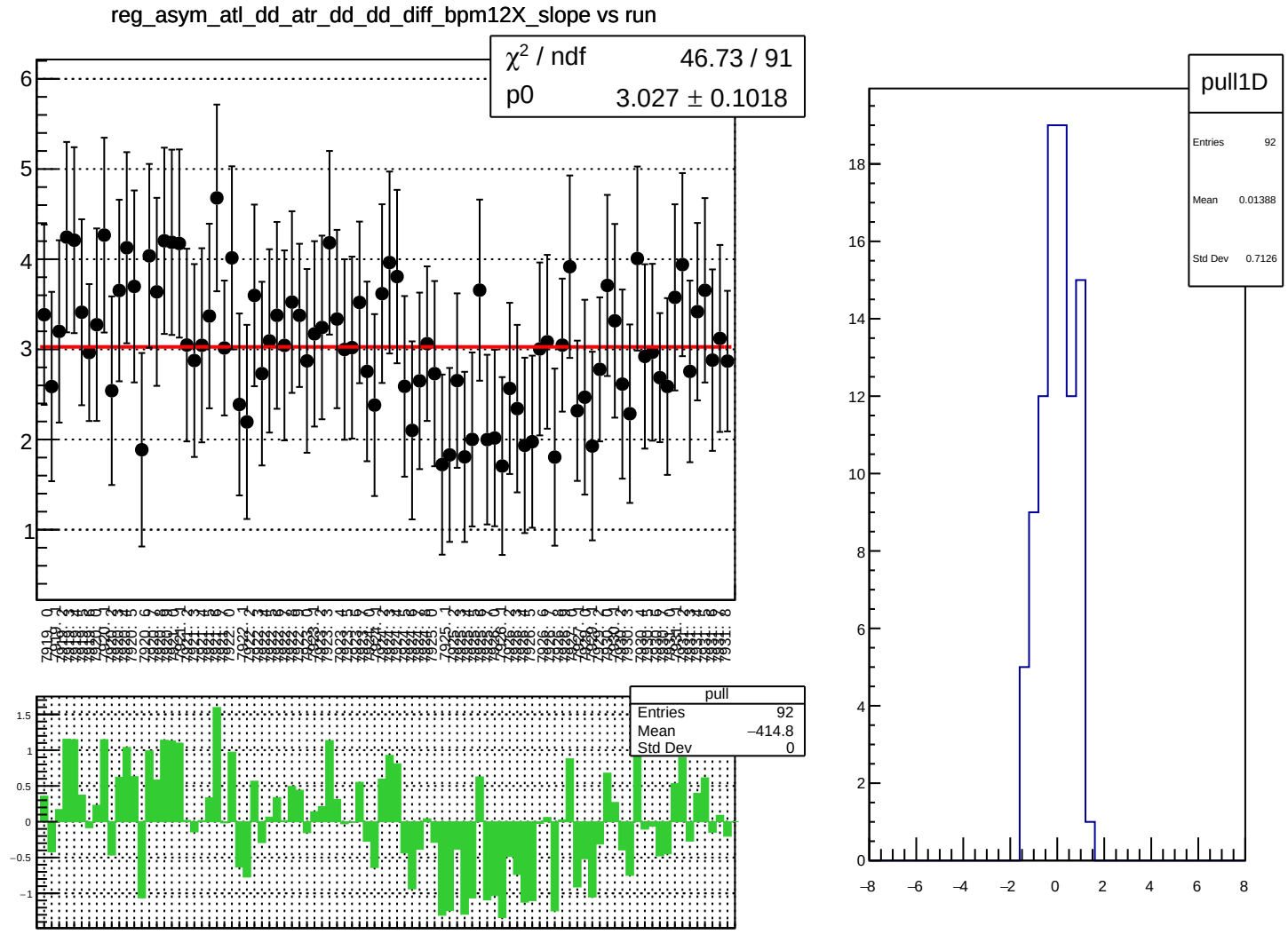

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 32.53 / 91
p0 6.838 ± 3.062
pull
Entries 92
Mean −153.9
Std Dev 0

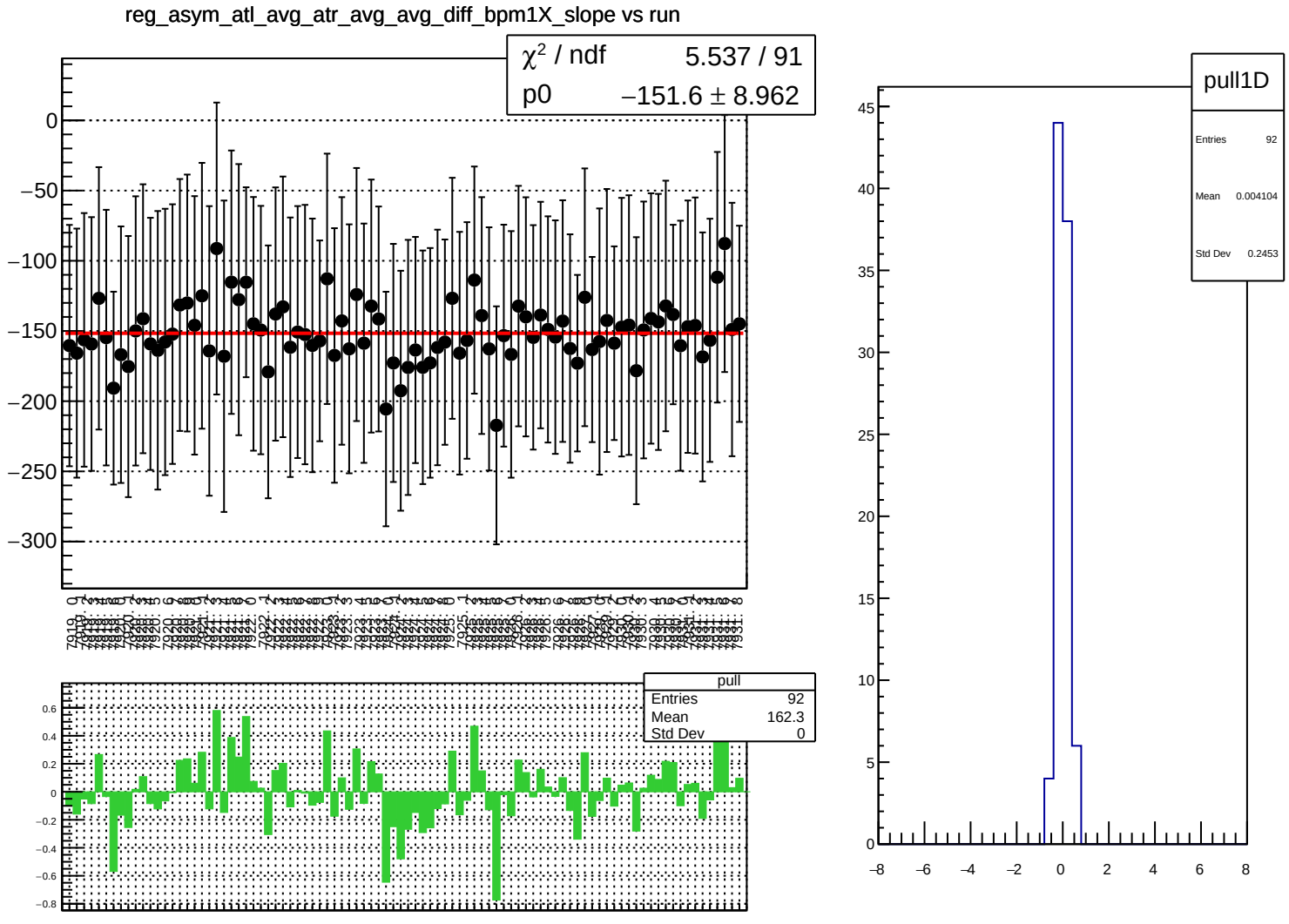

pull1D
Entries 92
Mean −0.001891
Std Dev 0.5946

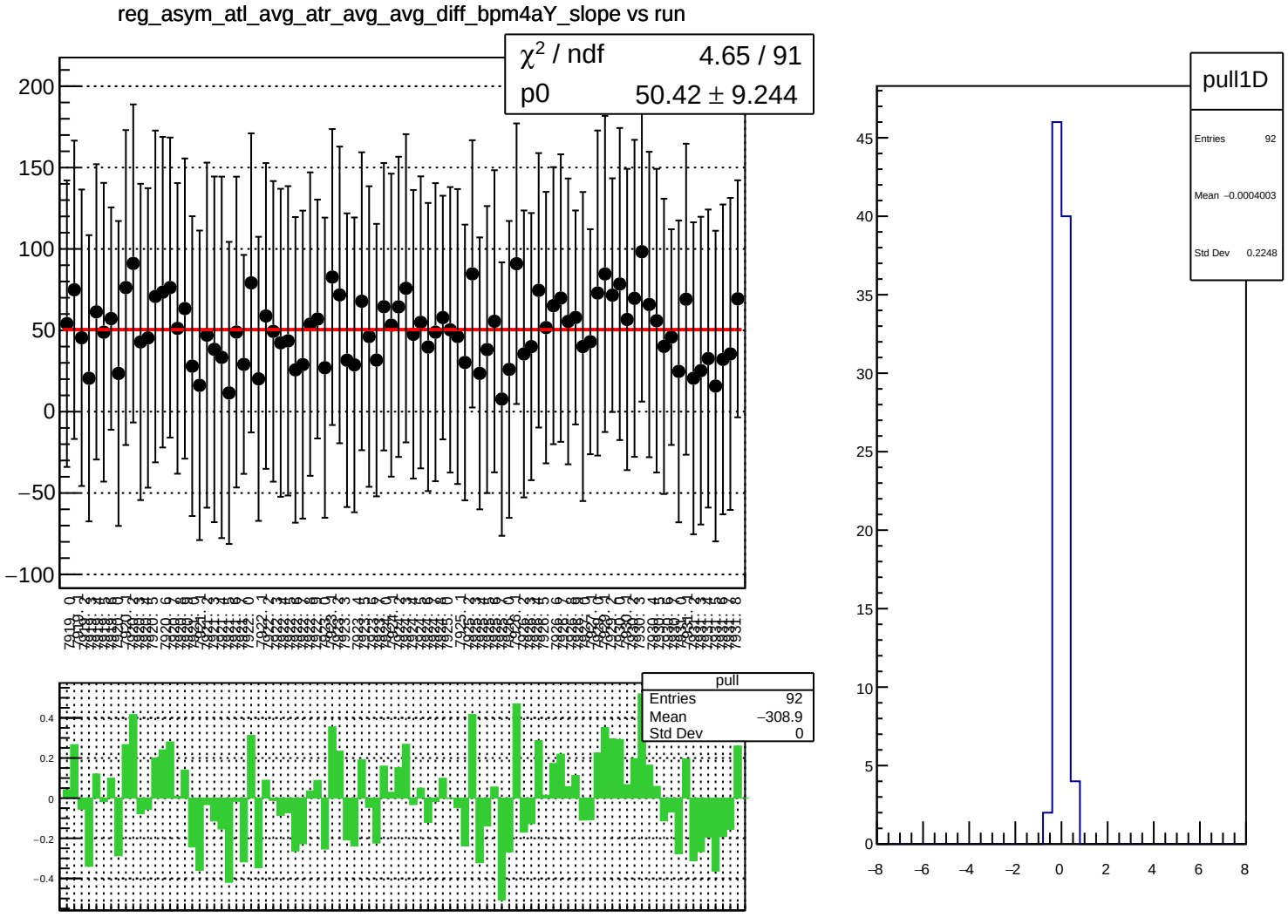

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 27.05 / 91
p0 47.05 ± 2.657
pull
Entries 92
Mean 219.5
Std Dev 0
pull1D
Entries 92
Mean −0.004307
Std Dev 0.5422

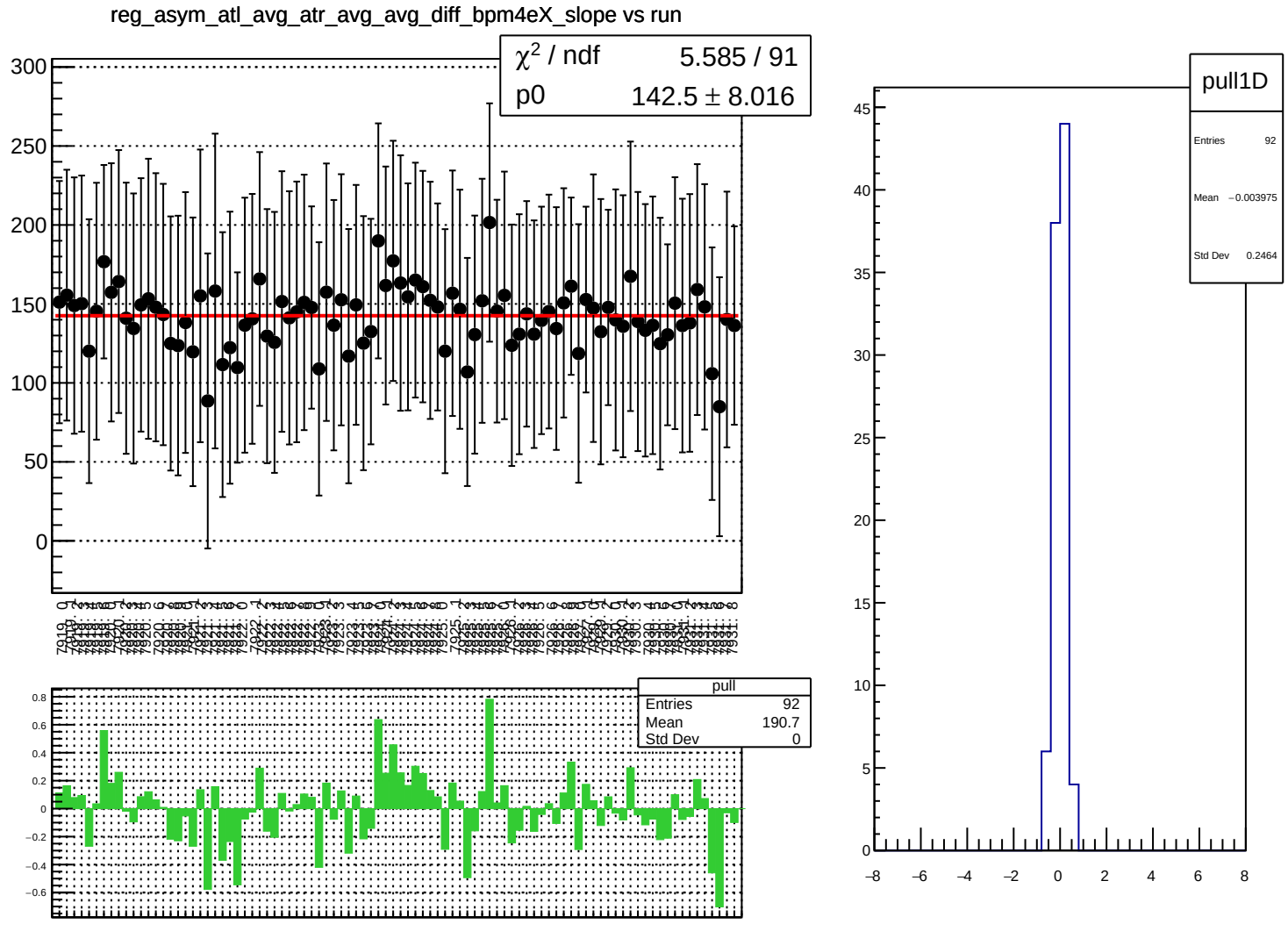

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 34.03 / 91
p0 −15.39 ± 3.52
pull
Entries 92
Mean 35.88
Std Dev 0

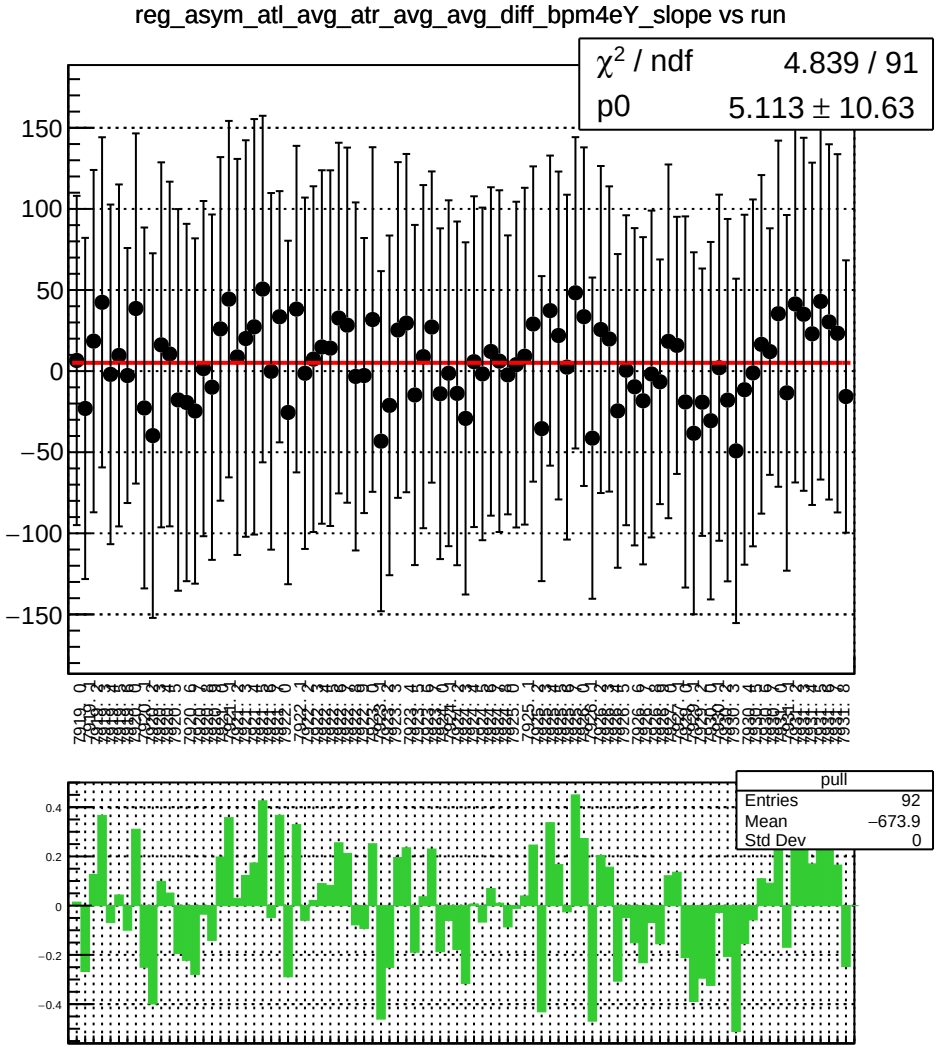

pull1D
Entries 92
Mean 0.002923
Std Dev 0.6082

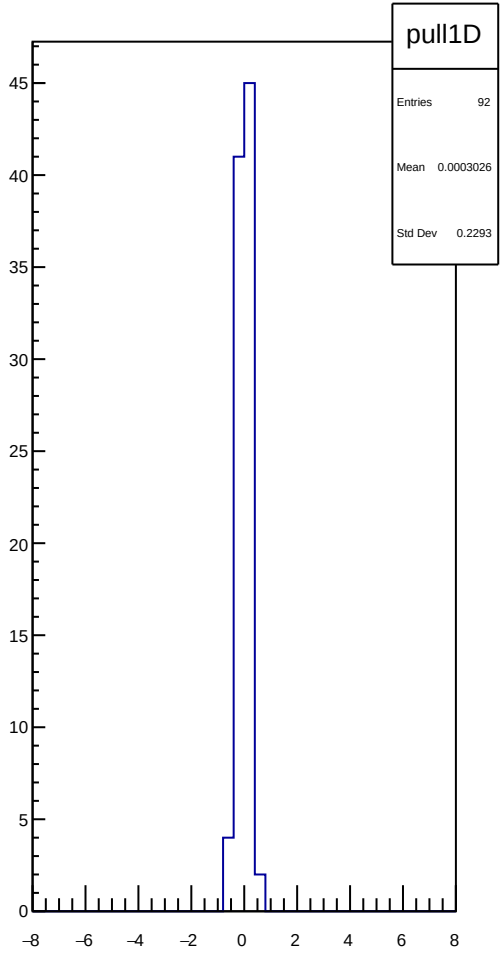

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 46.73 / 91
p0 3.027 ± 0.1018
pull
Entries 92
Mean −414.8
Std Dev 0
pull1D
Entries 92
Mean 0.01388
Std Dev 0.7126

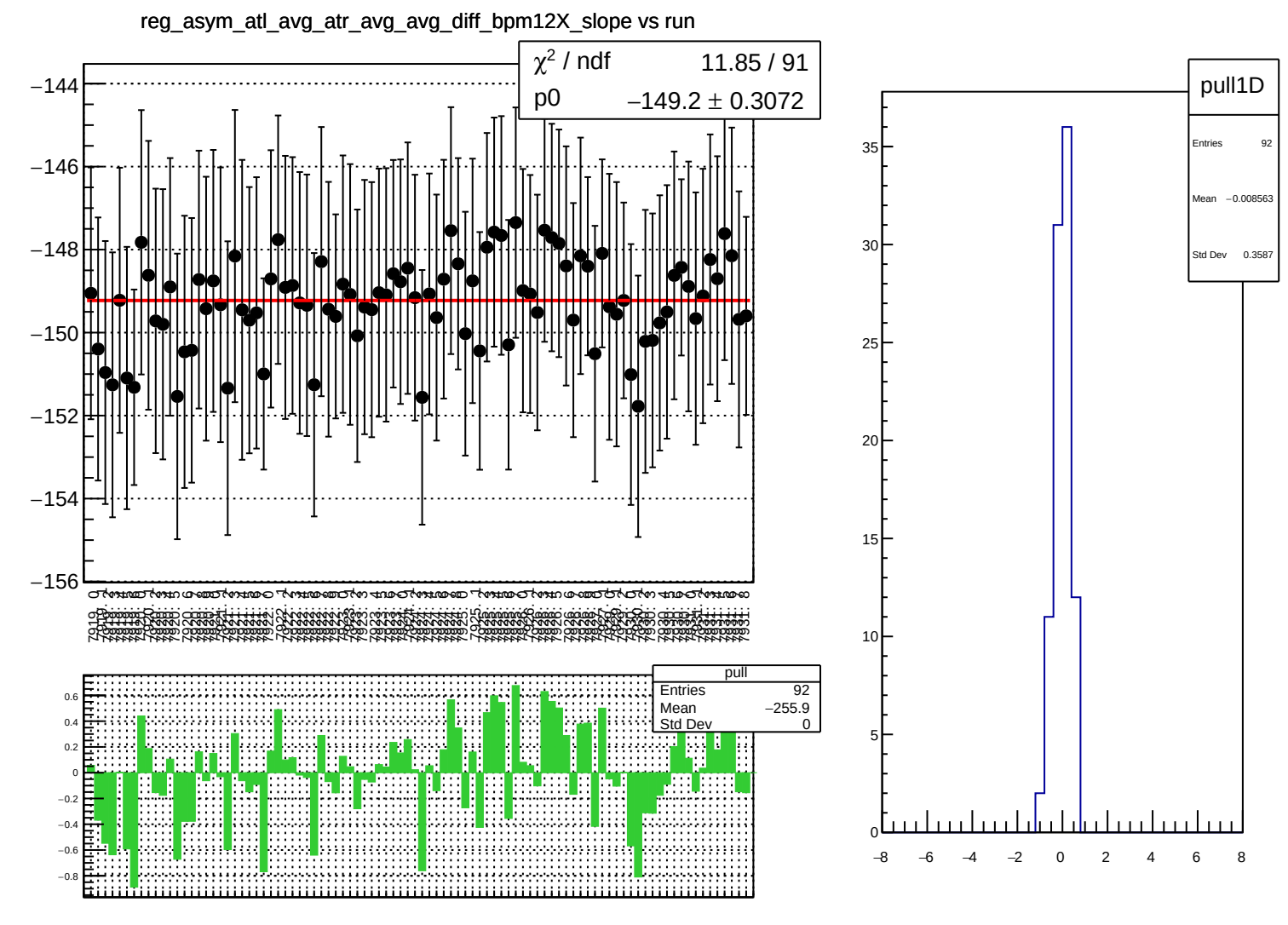

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 5.537 / 91
p0 −151.6 ± 8.962
pull
Entries 92
Mean 162.3
Std Dev 0
pull1D
Entries 92
Mean 0.004104
Std Dev 0.2453

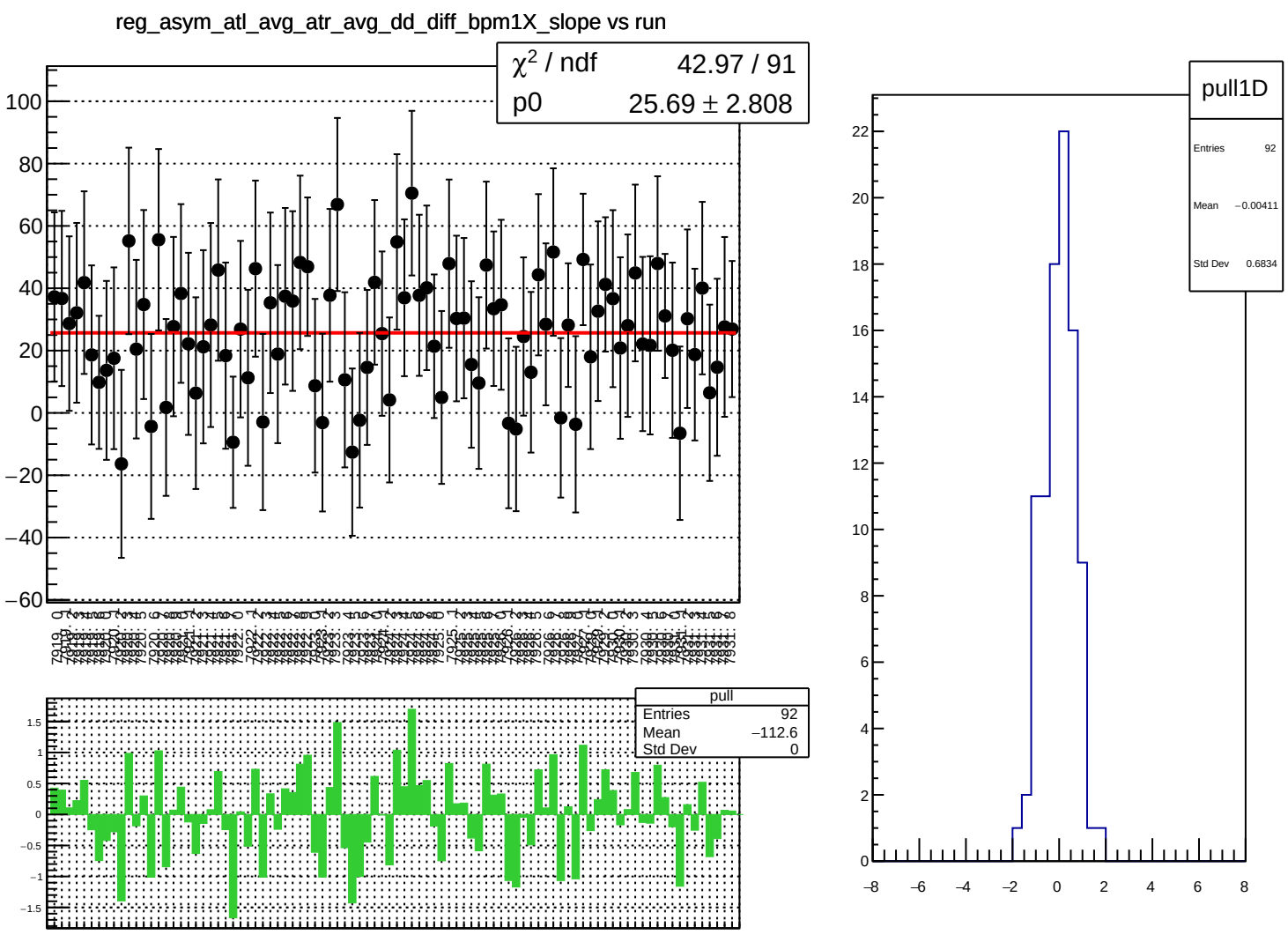

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.65 / 91
p0 50.42 ± 9.244
pull
Entries 92
Mean −308.9
Std Dev 0
pull1D
Entries 92
Mean −0.0004003
Std Dev 0.2248

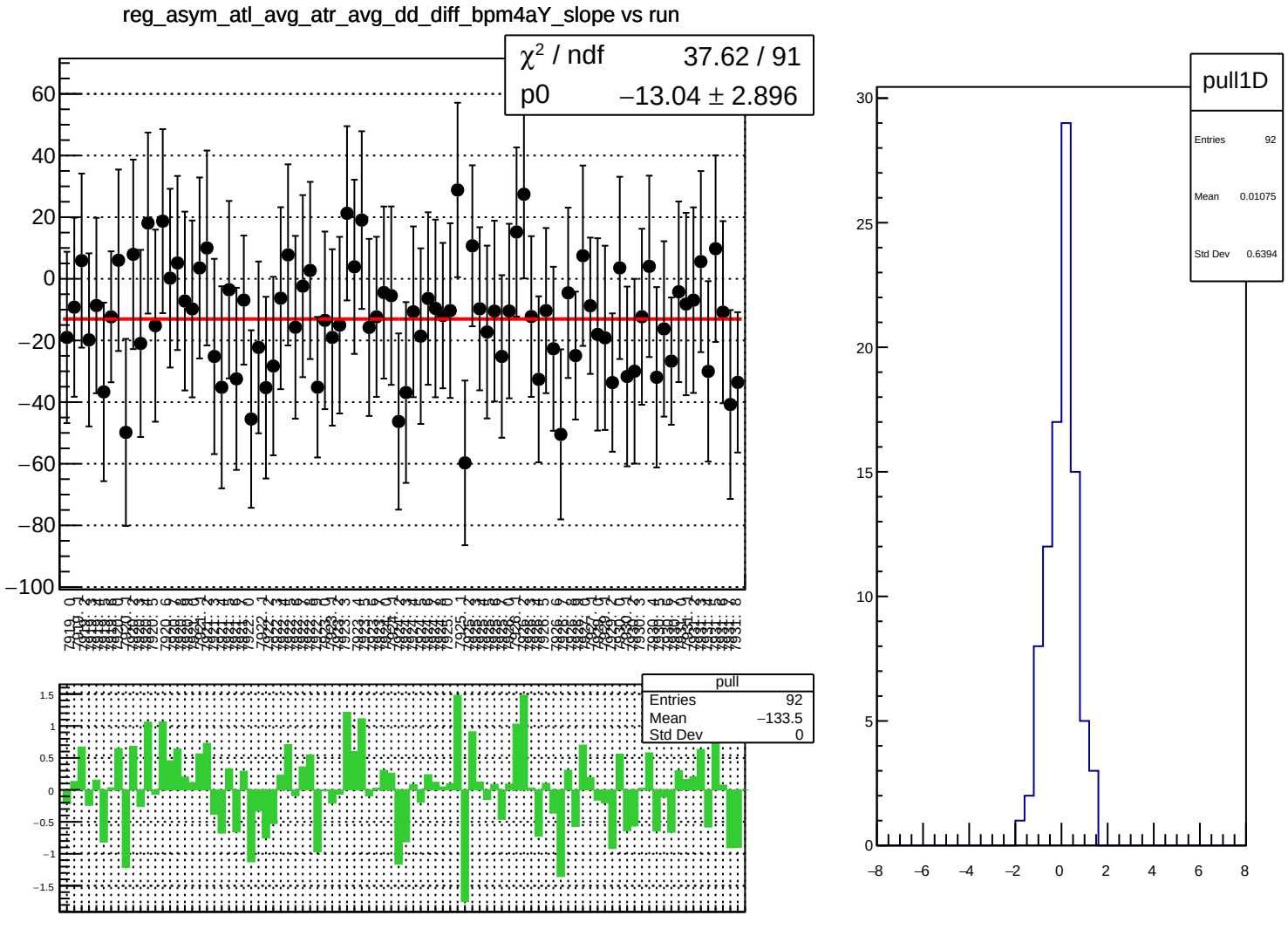

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 5.585 / 91
p0 142.5 ± 8.016
pull
Entries 92
Mean 190.7
Std Dev 0
pull1D
Entries 92
Mean −0.003975
Std Dev 0.2464

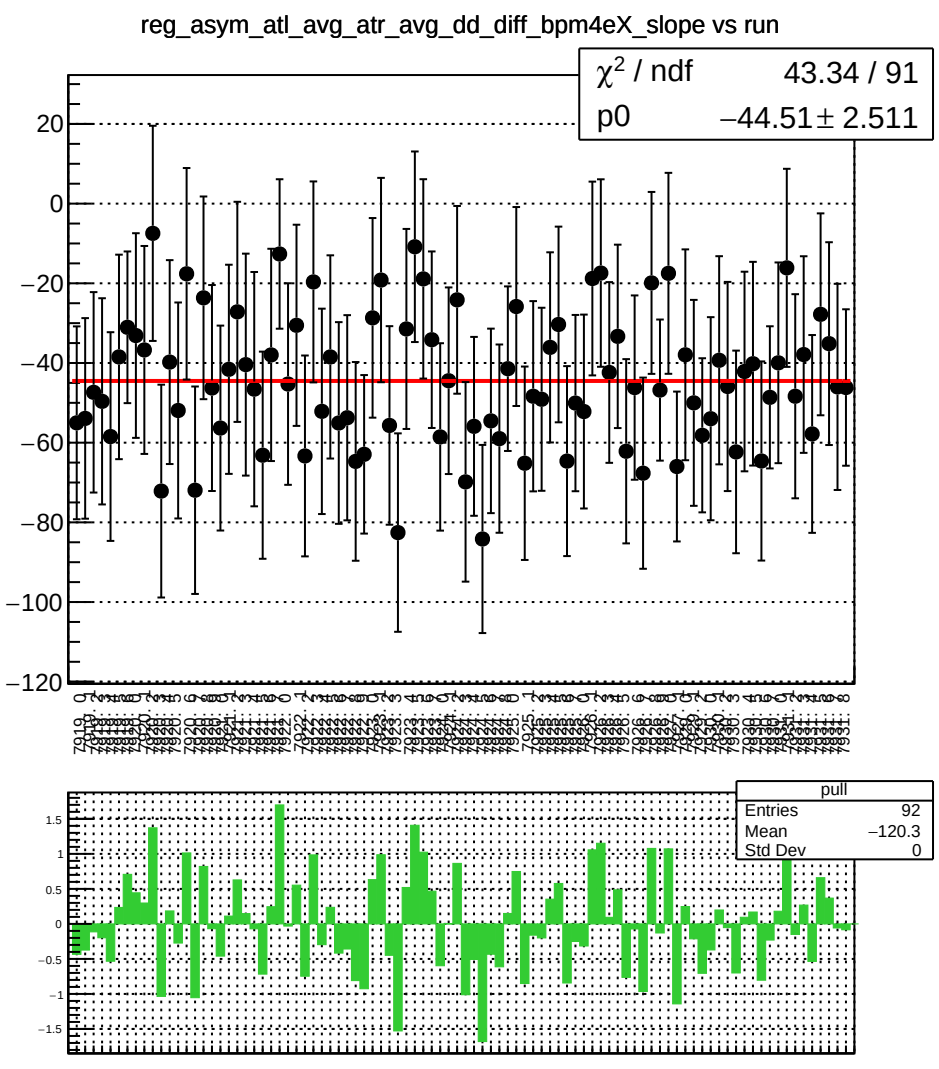

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.839 / 91
p0 5.113 ± 10.63
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean −673.9
Std Dev 0
0.4
0.2
0
−0.2
−0.4

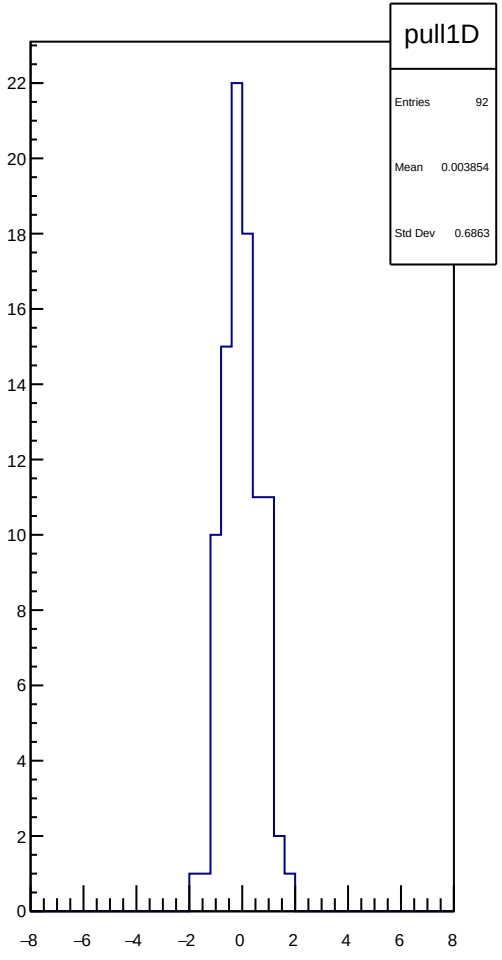

pull1D
Entries 92
Mean 0.0003026
Std Dev 0.2293
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

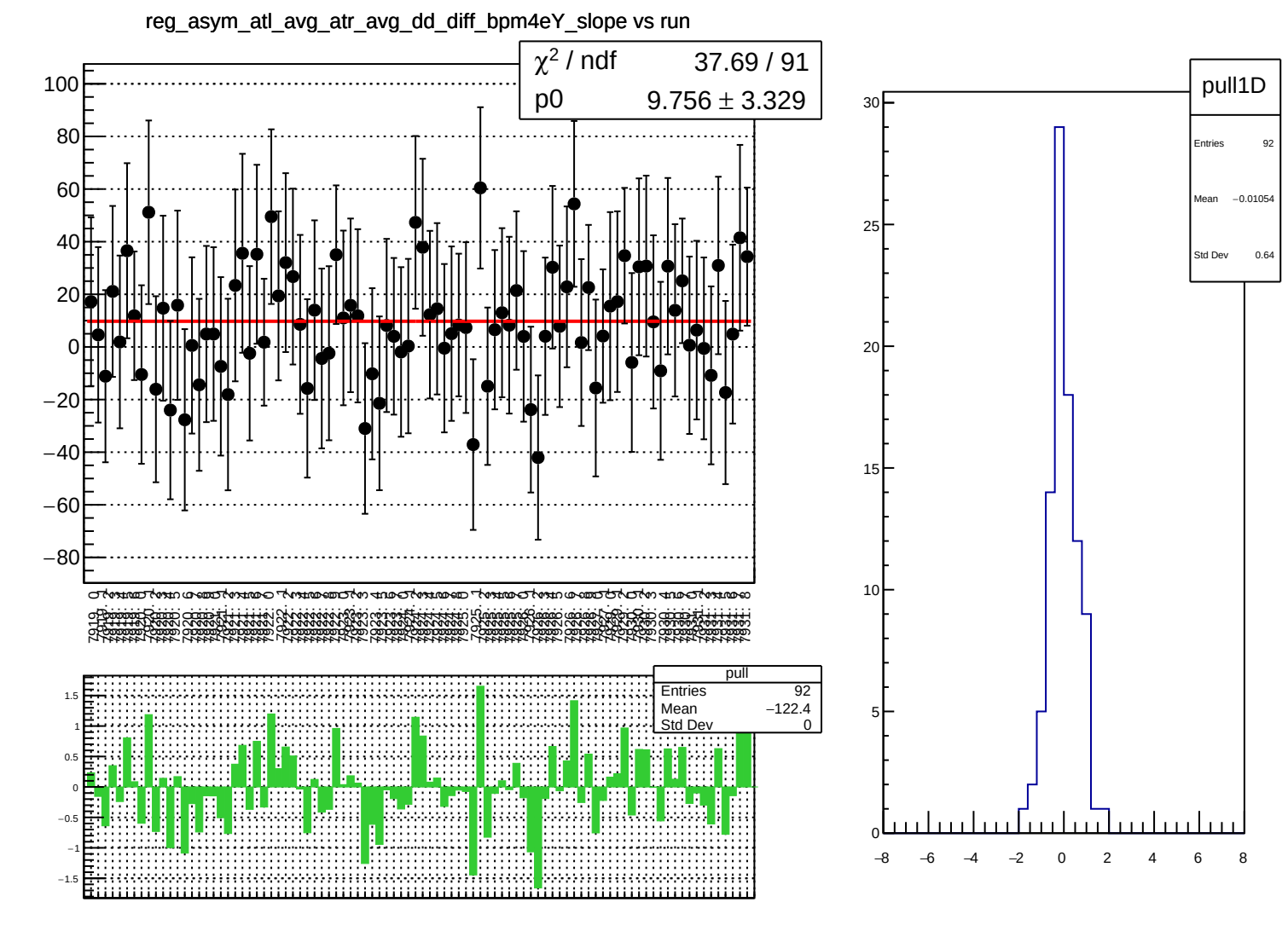

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 11.85 / 91
p0 −149.2 ± 0.3072
pull
Entries 92
Mean −255.9
Std Dev 0
pull1D
Entries 92
Mean −0.008563
Std Dev 0.3587

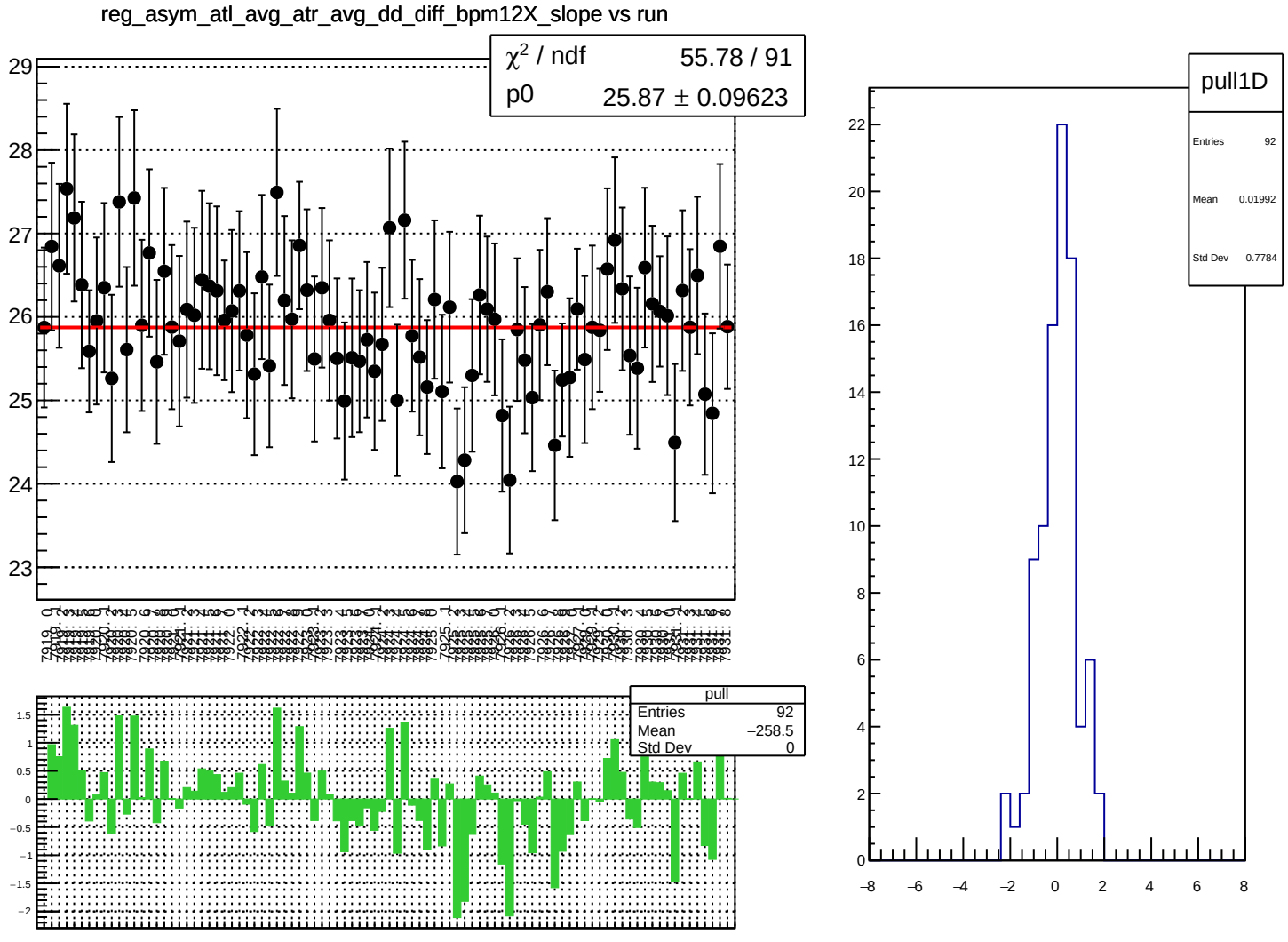

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 42.97 / 91
p0 25.69 ± 2.808
pull
Entries 92
Mean −112.6
Std Dev 0
pull1D
Entries 92
Mean −0.00411
Std Dev 0.6834

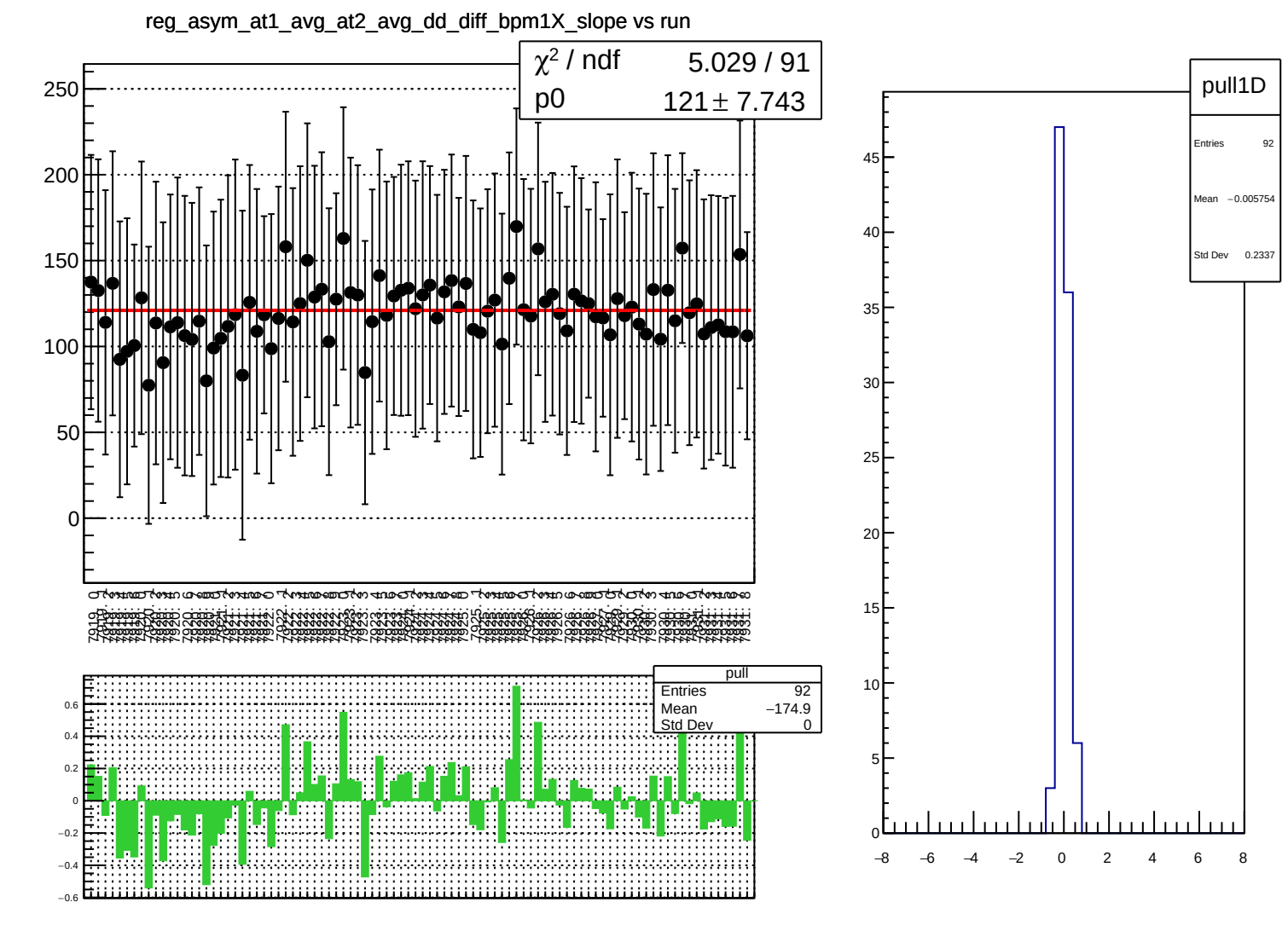

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 37.62 / 91
p0 −13.04 ± 2.896
pull
Entries 92
Mean −133.5
Std Dev 0
pull1D
Entries 92
Mean 0.01075
Std Dev 0.6394

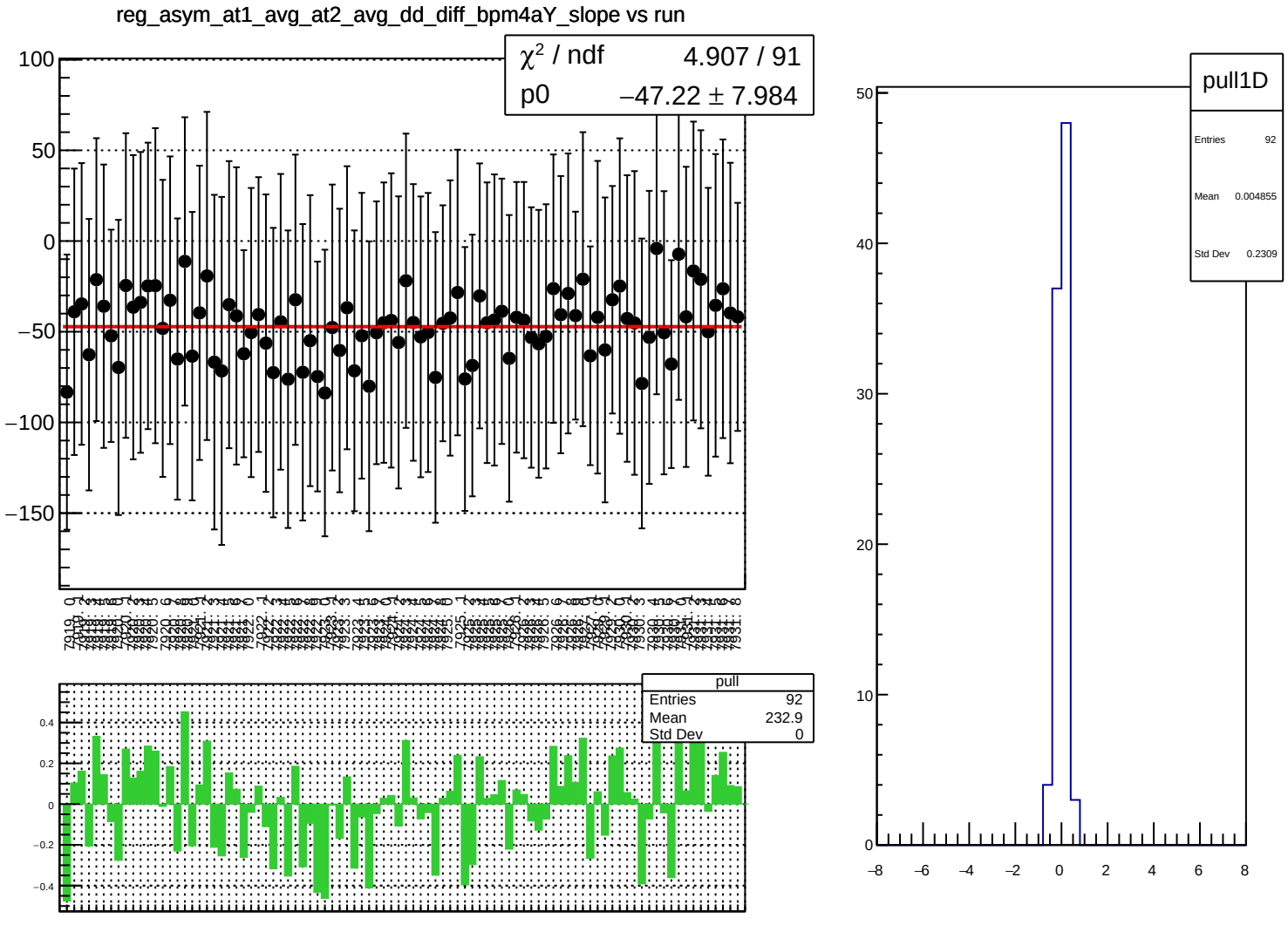

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 43.34 / 91
p0 −44.51 ± 2.511
pull
Entries 92
Mean −120.3
Std Dev 0

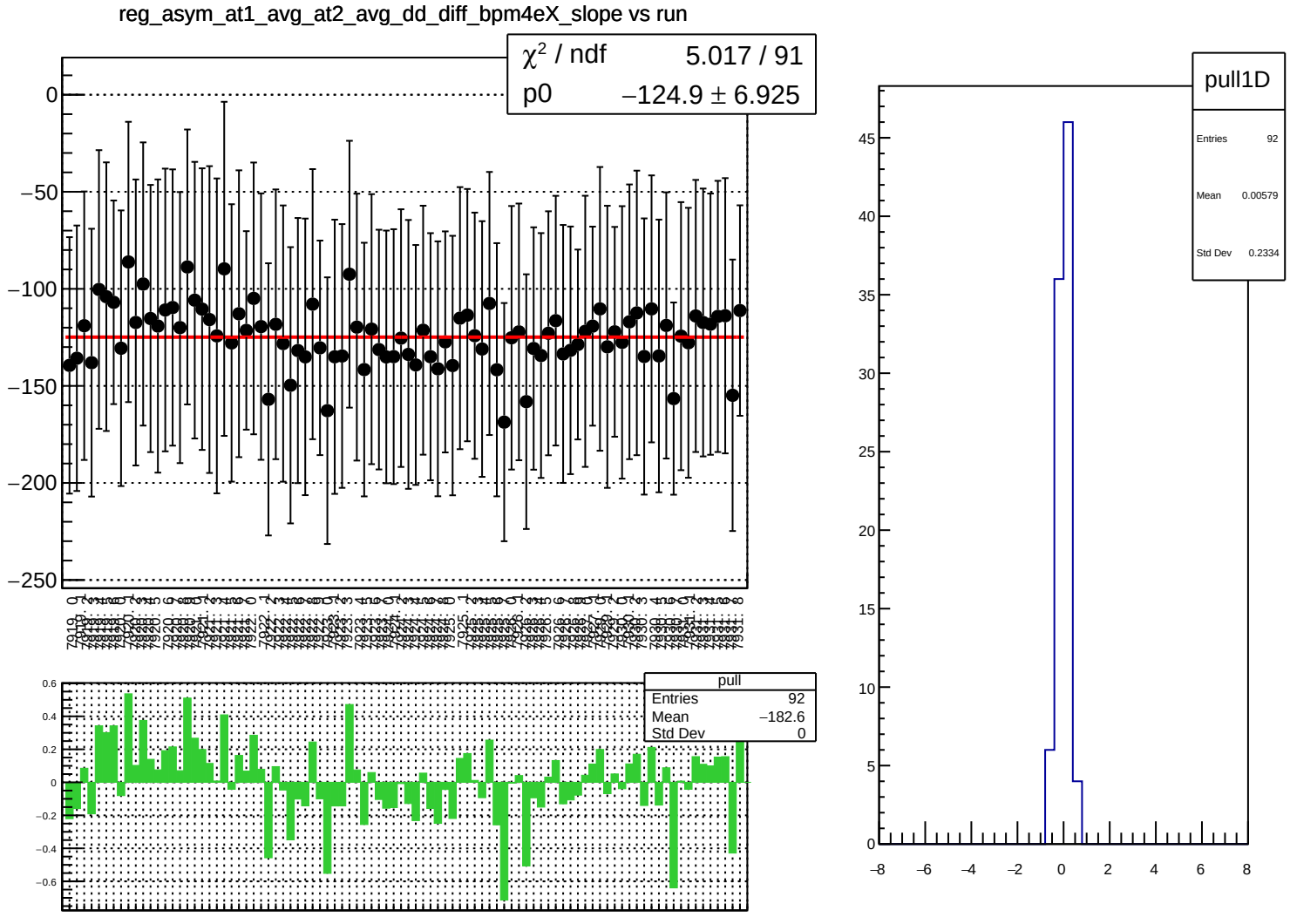

pull1D
Entries 92
Mean 0.003854
Std Dev 0.6863

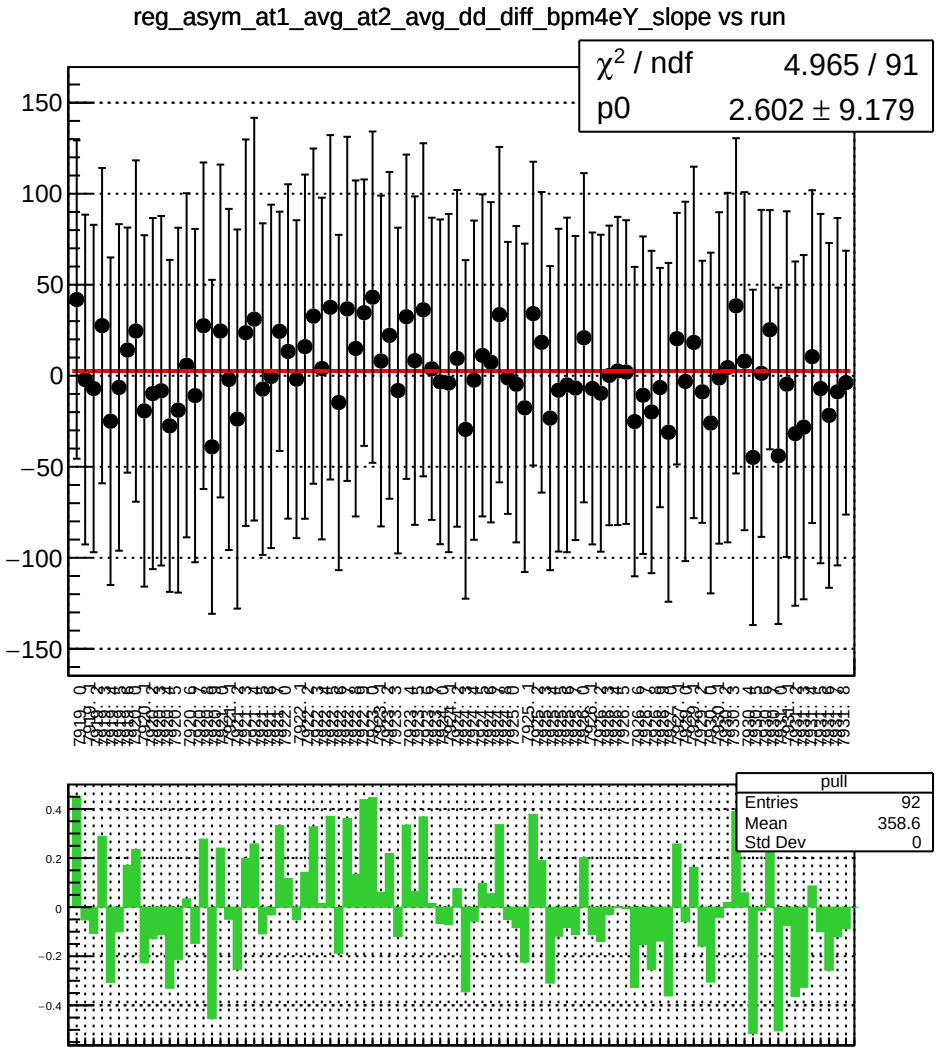

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 37.69 / 91
p0 9.756 ± 3.329
pull
Entries 92
Mean −122.4
Std Dev 0
pull1D
Entries 92
Mean −0.01054
Std Dev 0.64

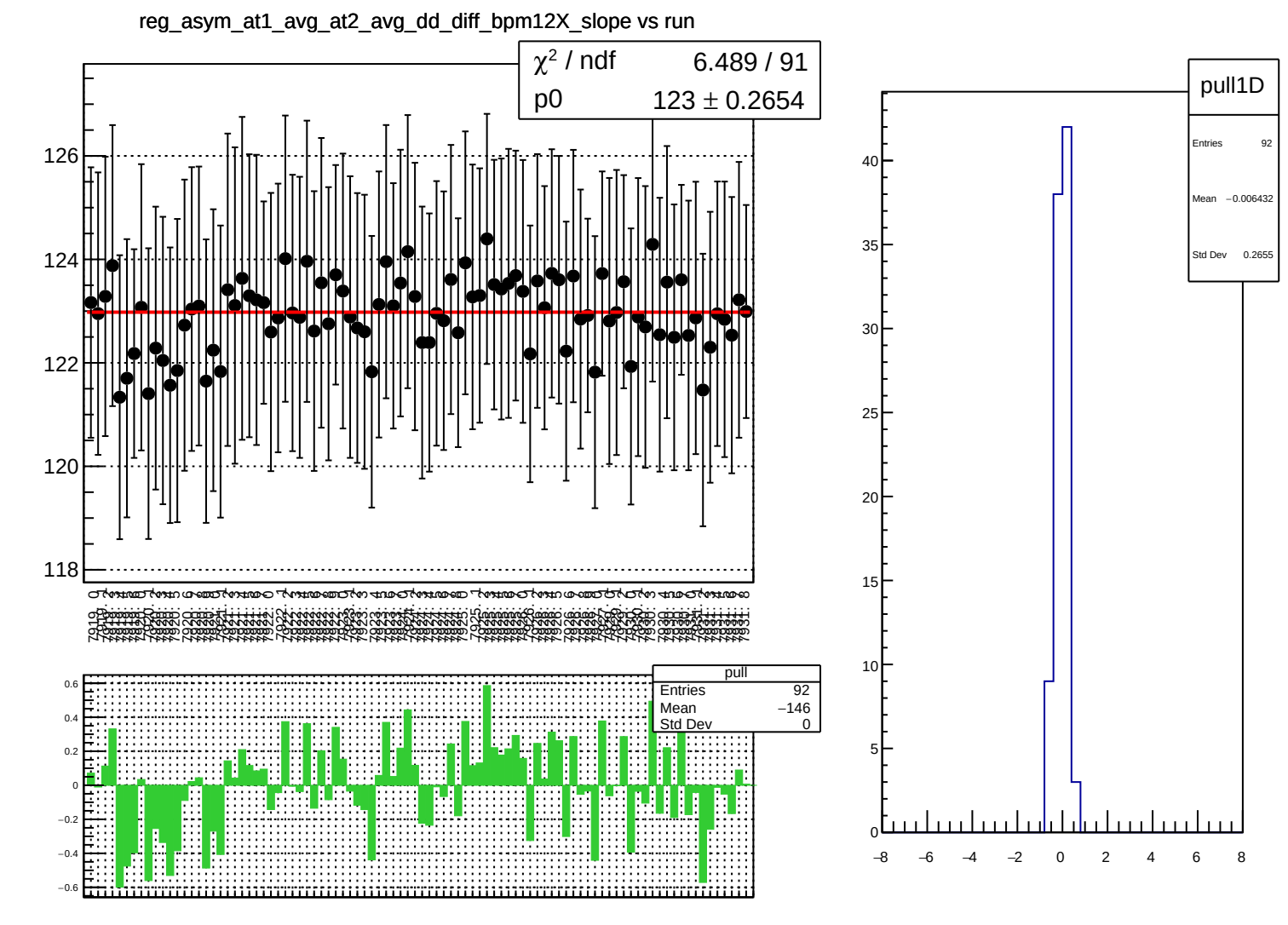

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 55.78 / 91
p0 25.87 ± 0.09623
pull
Entries 92
Mean −258.5
Std Dev 0
pull1D
Entries 92
Mean 0.01992
Std Dev 0.7784

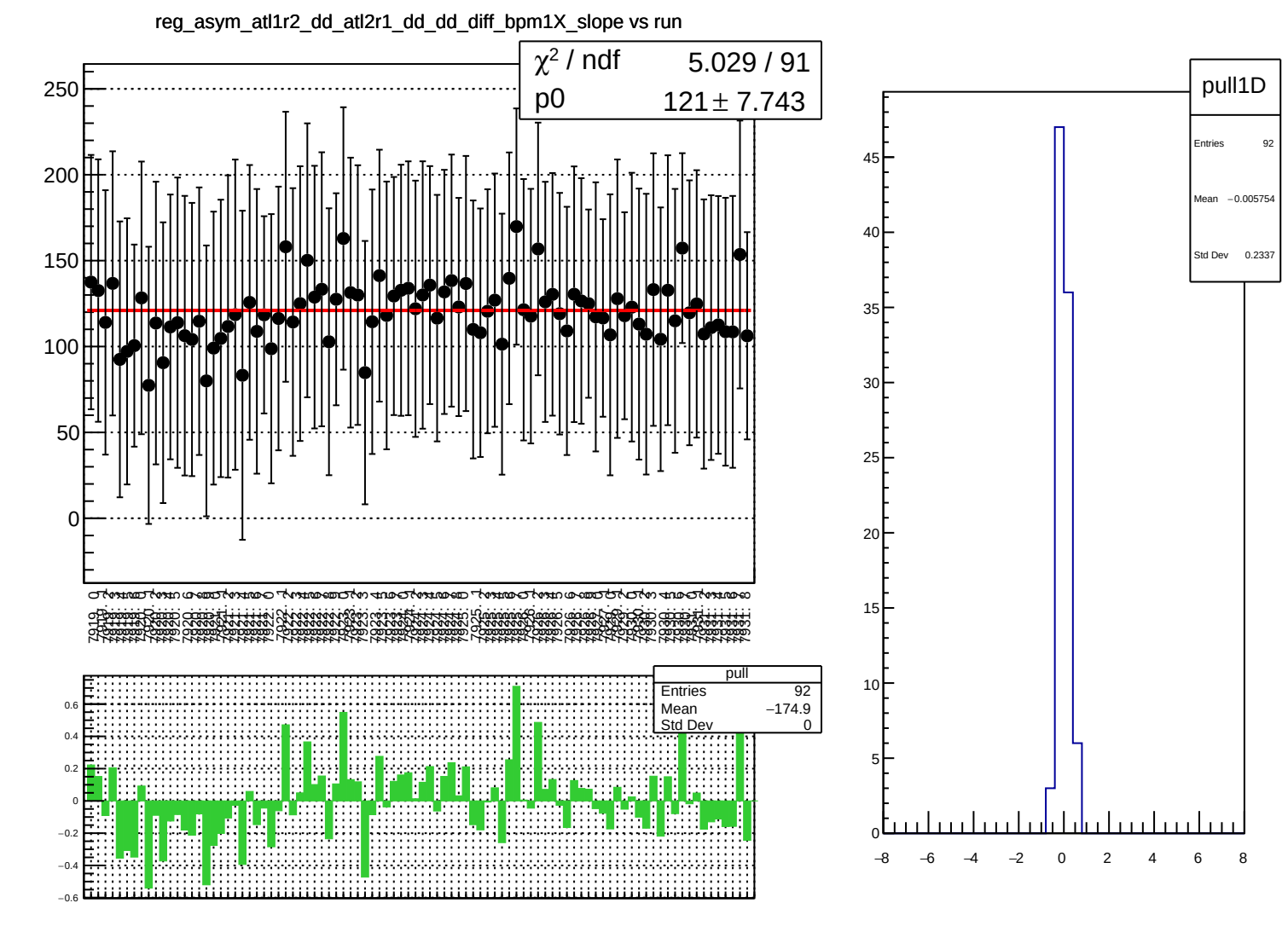

reg_asym_at1_avg_at2_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 5.029 / 91
p0 121 ± 7.743
pull
Entries 92
Mean −174.9
Std Dev 0
pull1D
Entries 92
Mean −0.005754
Std Dev 0.2337

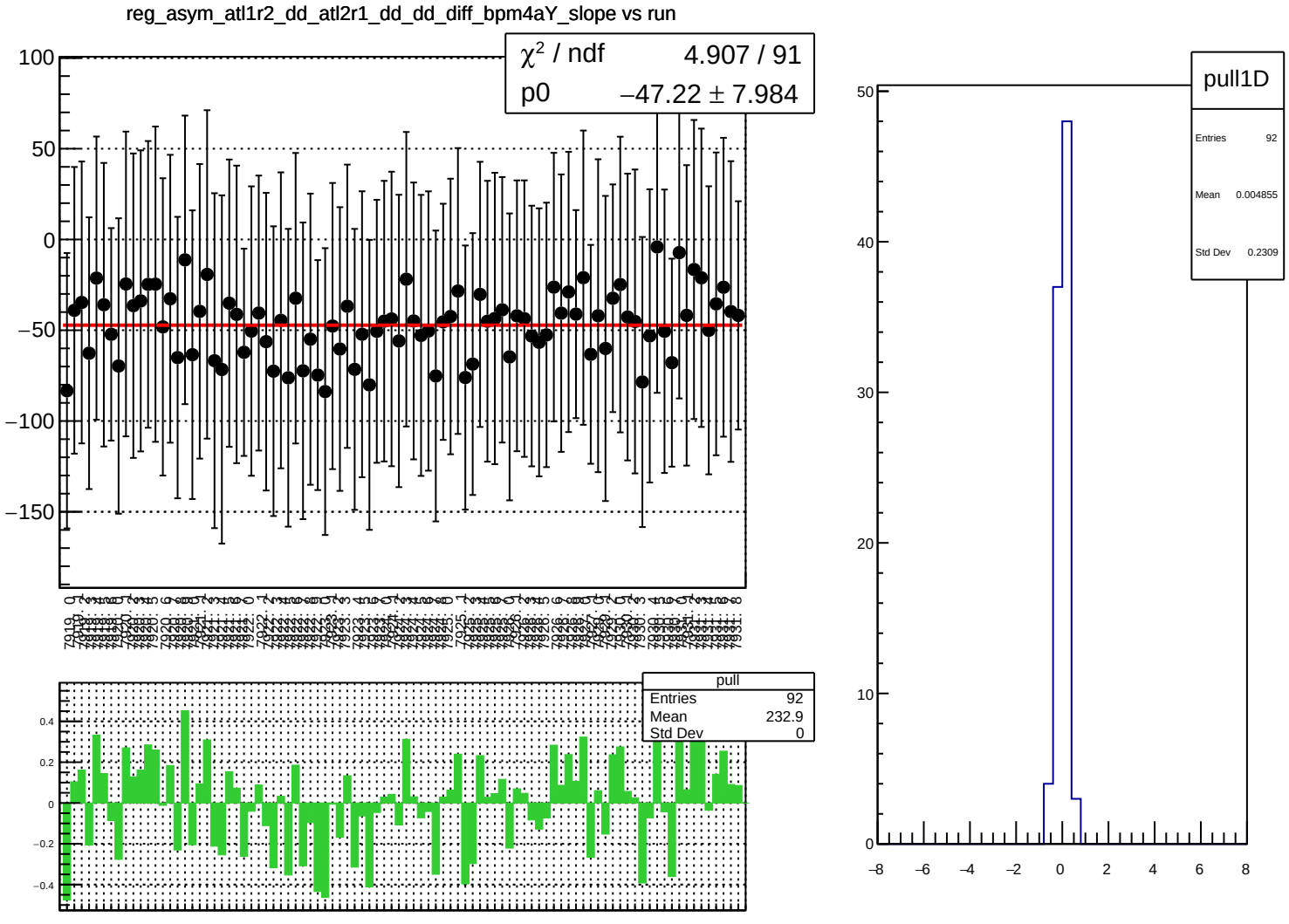

reg_asym_at1_avg_at2_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.907 / 91
p0 −47.22 ± 7.984
pull
Entries 92
Mean 232.9
Std Dev 0
pull1D
Entries 92
Mean 0.004855
Std Dev 0.2309

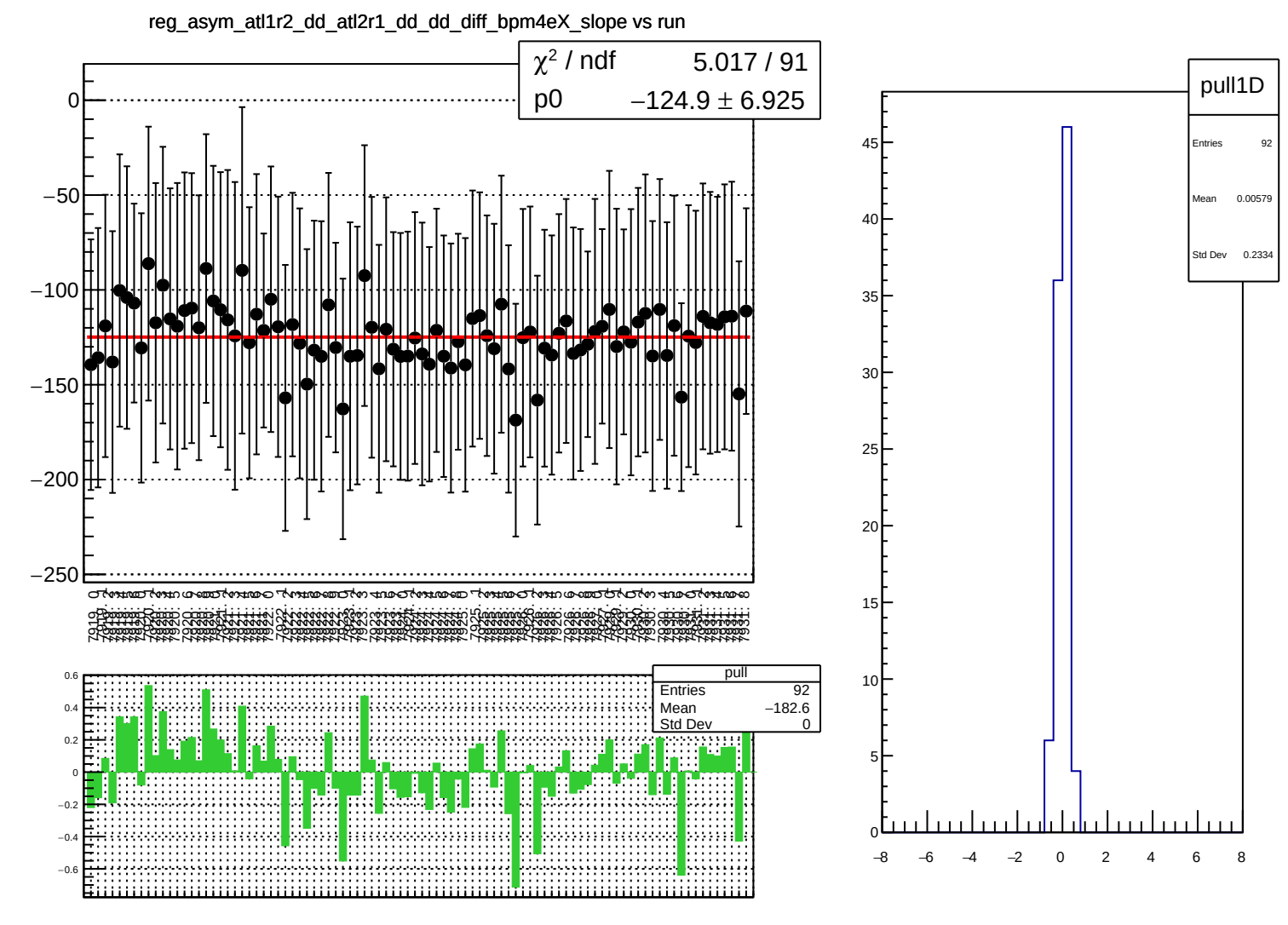

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.017 / 91
p0 −124.9 ± 6.925
pull
Entries 92
Mean −182.6
Std Dev 0
pull1D
Entries 92
Mean 0.00579
Std Dev 0.2334

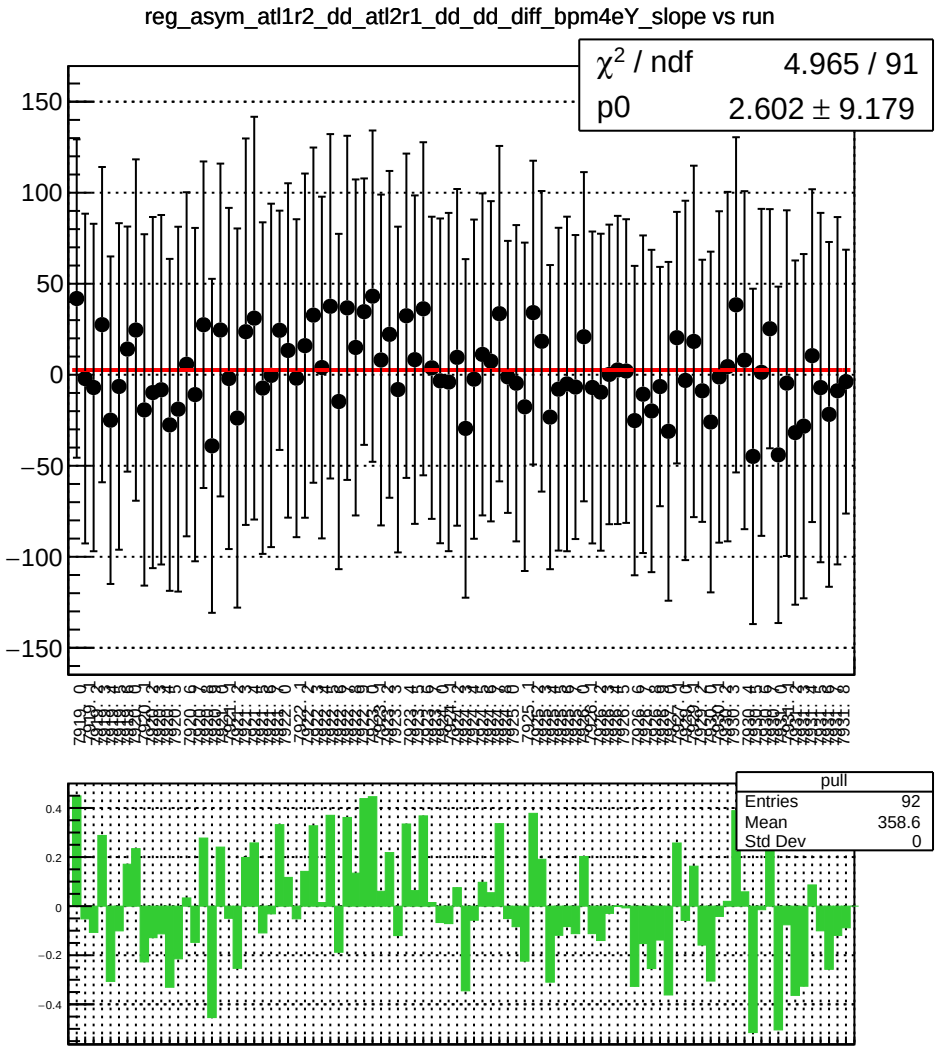

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.965 / 91
p0 2.602 ± 9.179
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean 358.6
Std Dev 0
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 92
Mean −0.004454
Std Dev 0.2323
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

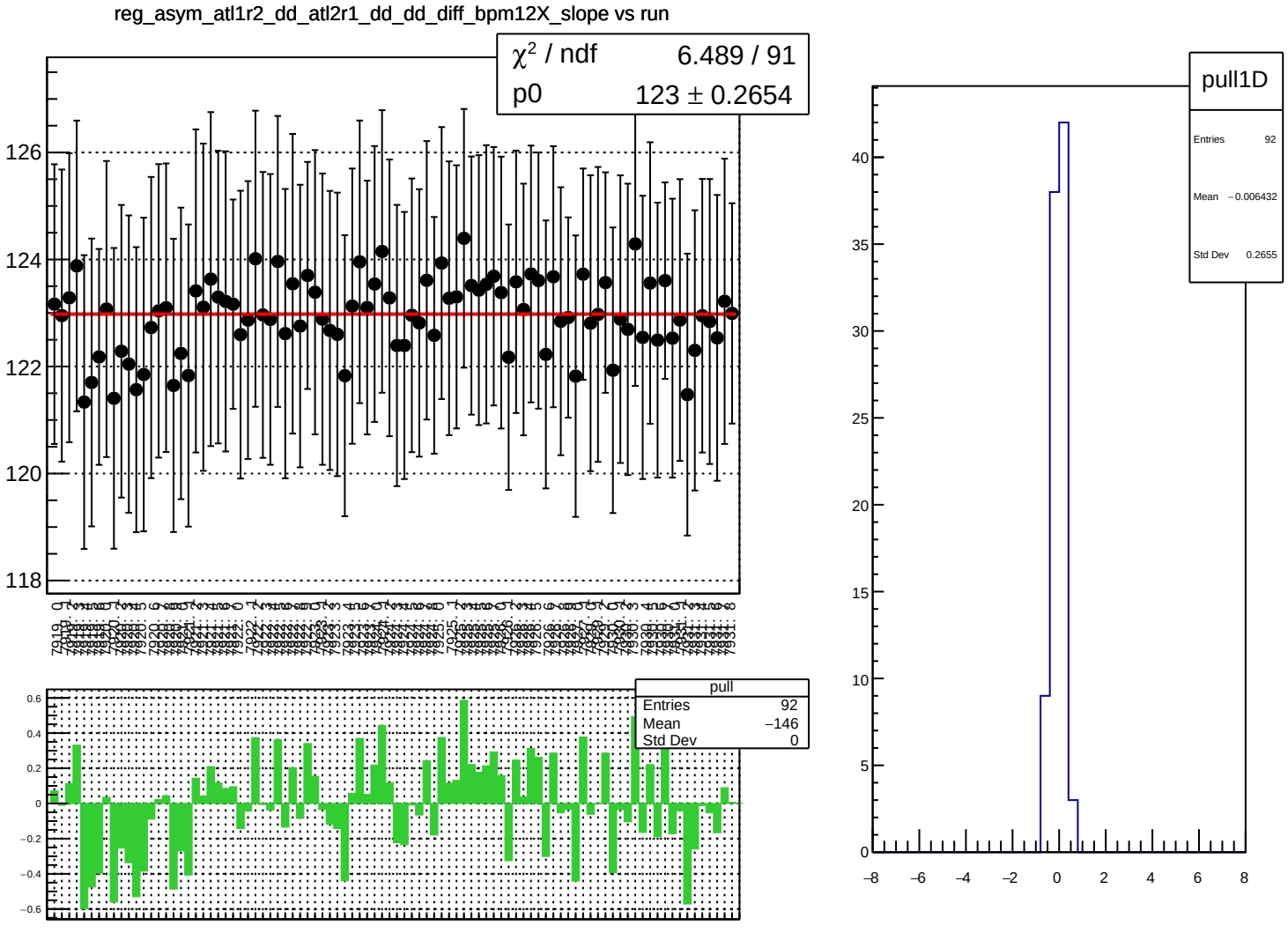

reg_asym_at1_avg_at2_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 6.489 / 91
p0 123 ± 0.2654
126
124
122
120
118
pull
Entries 92
Mean −146
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 92
Mean −0.006432
Std Dev 0.2655
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

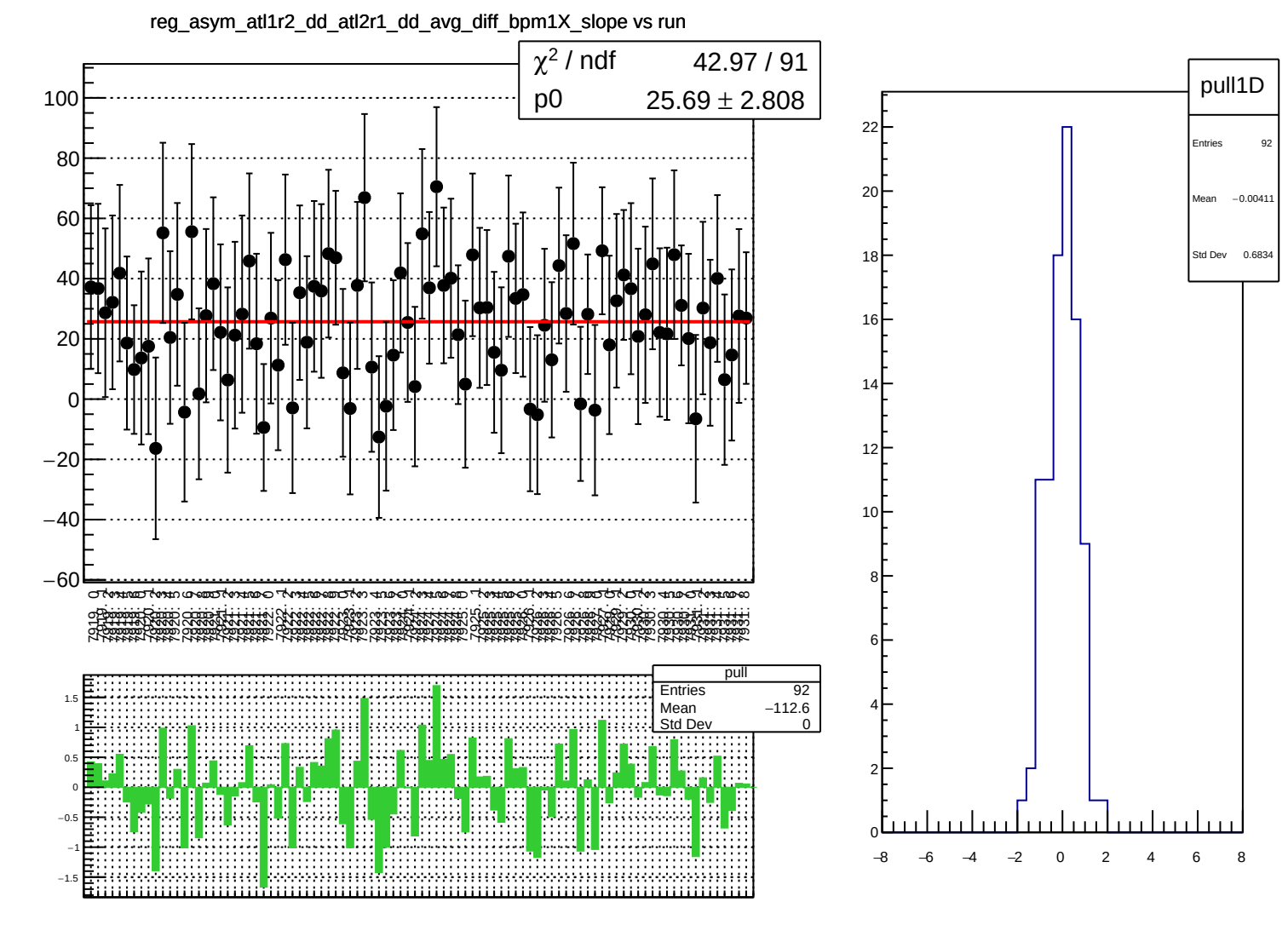

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 5.029 / 91
p0 121 ± 7.743
pull
Entries 92
Mean −174.9
Std Dev 0
pull1D
Entries 92
Mean −0.005754
Std Dev 0.2337

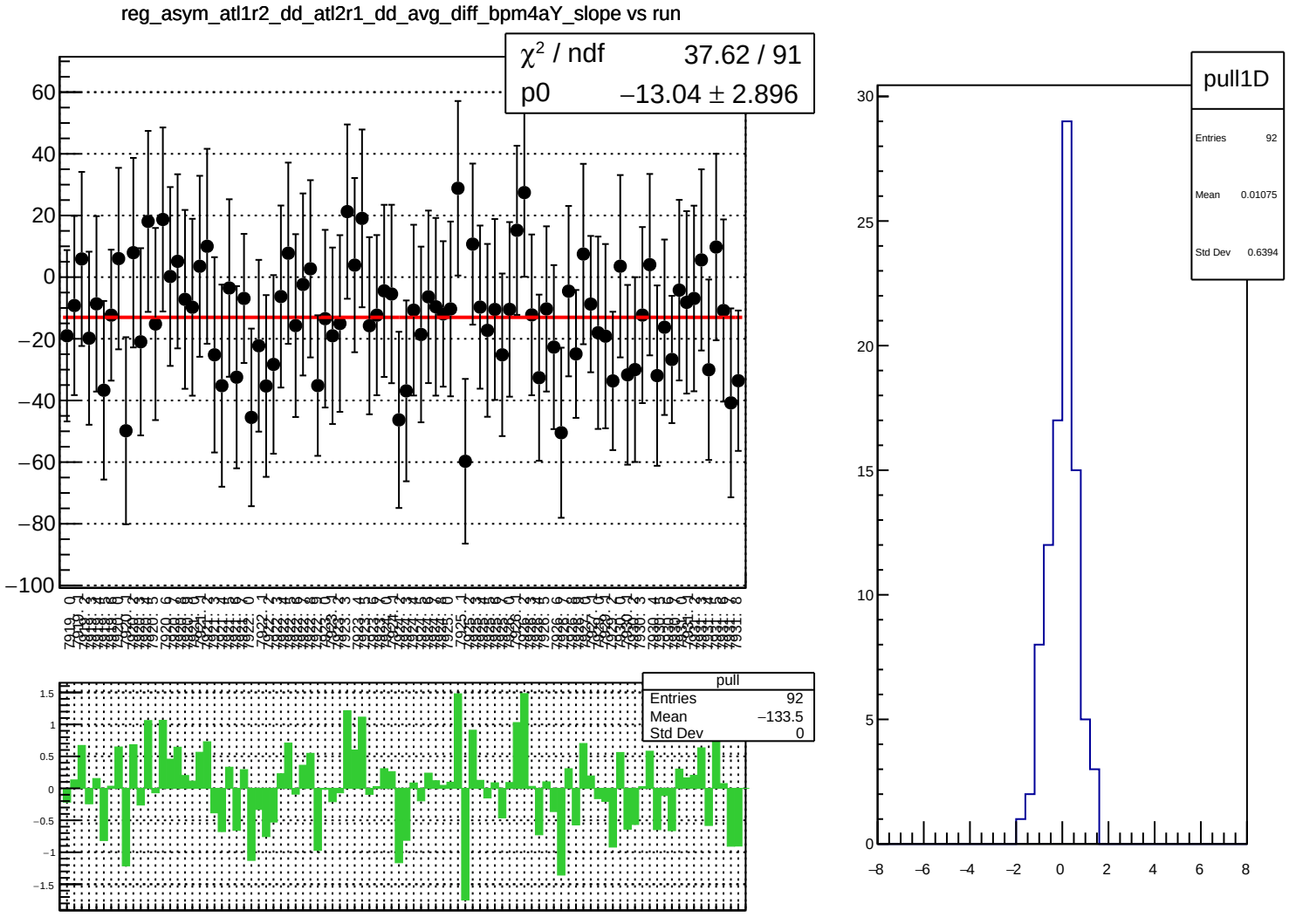

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.907 / 91
p0 −47.22 ± 7.984
pull
Entries 92
Mean 232.9
Std Dev 0
pull1D
Entries 92
Mean 0.004855
Std Dev 0.2309

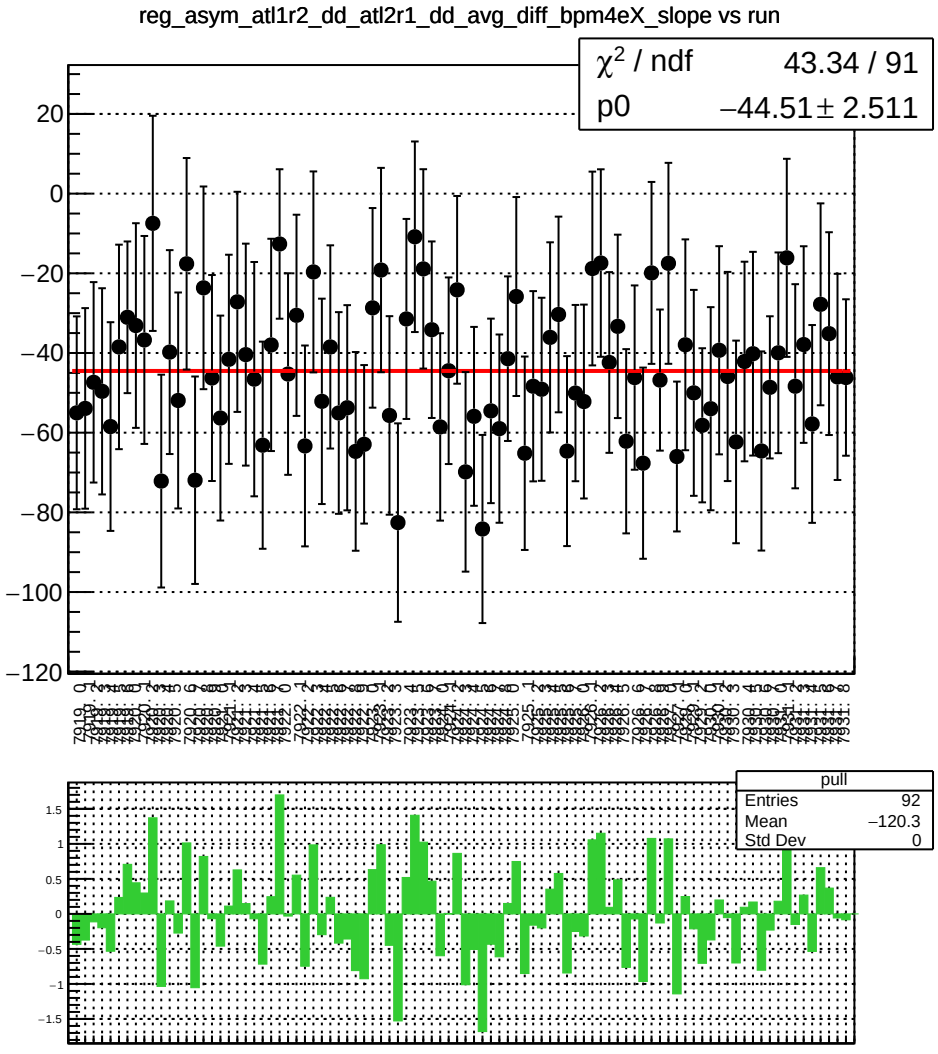

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.017 / 91
p0 −124.9 ± 6.925
pull
Entries 92
Mean −182.6
Std Dev 0
pull1D
Entries 92
Mean 0.00579
Std Dev 0.2334

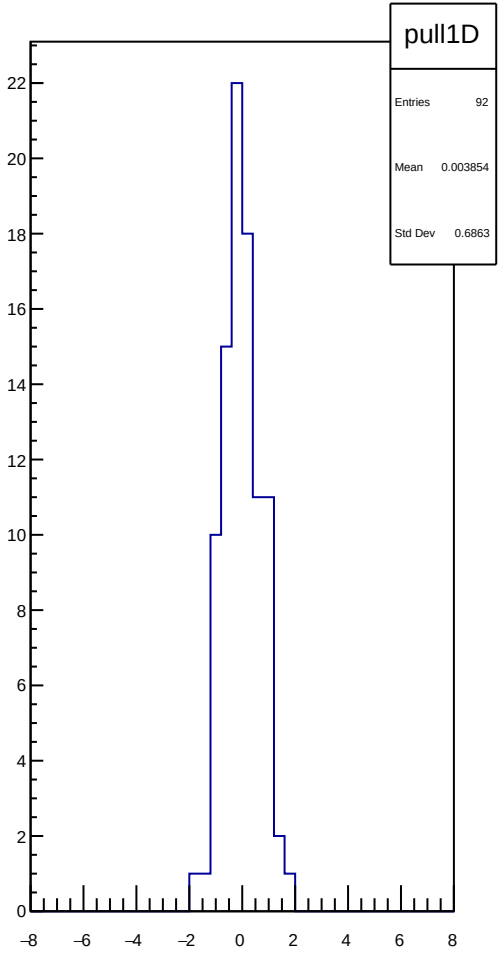

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.965 / 91
p0 2.602 ± 9.179
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean 358.6
Std Dev 0
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 92
Mean −0.004454
Std Dev 0.2323
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

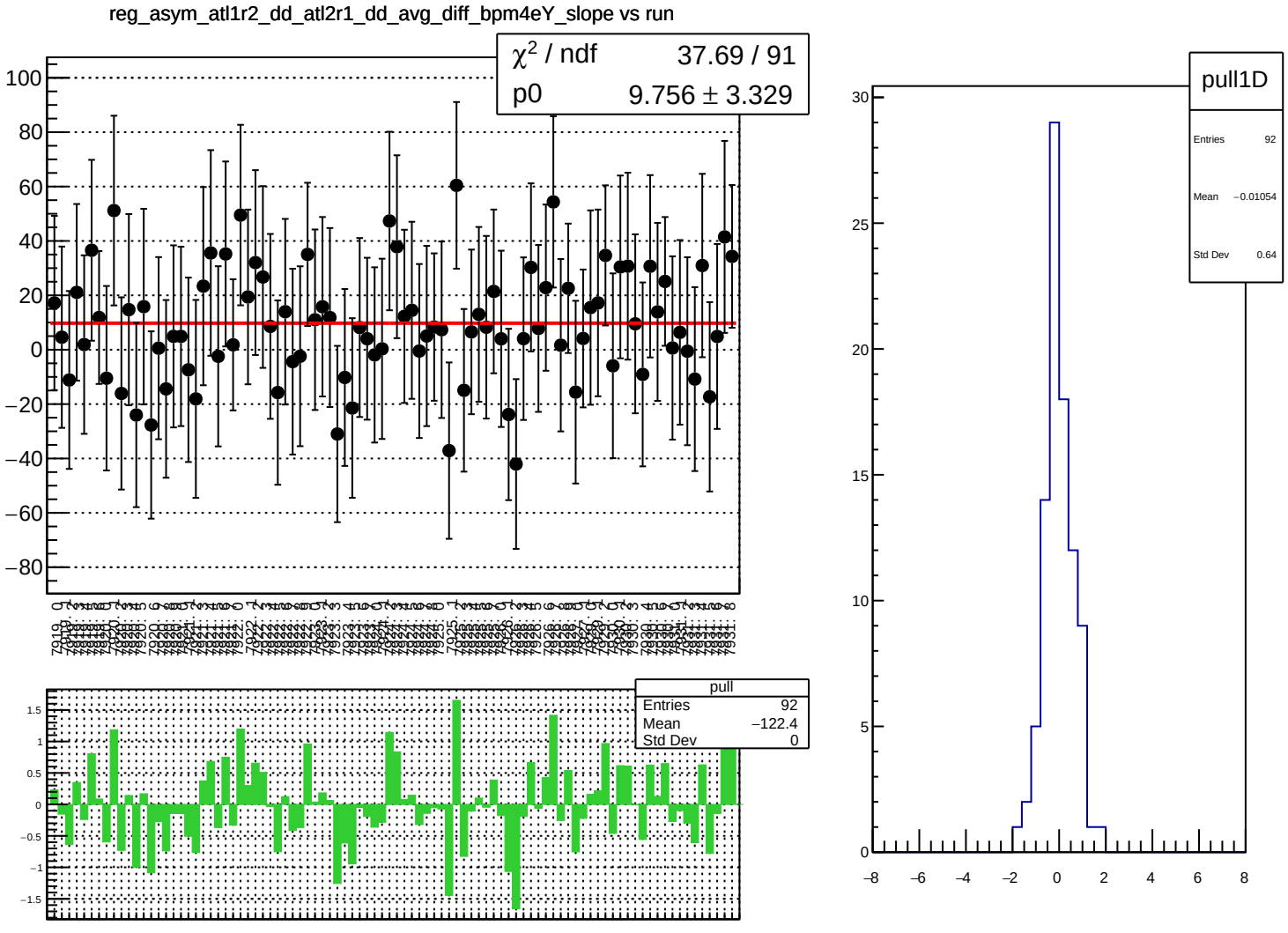

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 6.489 / 91
p0 123 ± 0.2654
126
124
122
120
118
pull
Entries 92
Mean −146
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 92
Mean −0.006432
Std Dev 0.2655
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

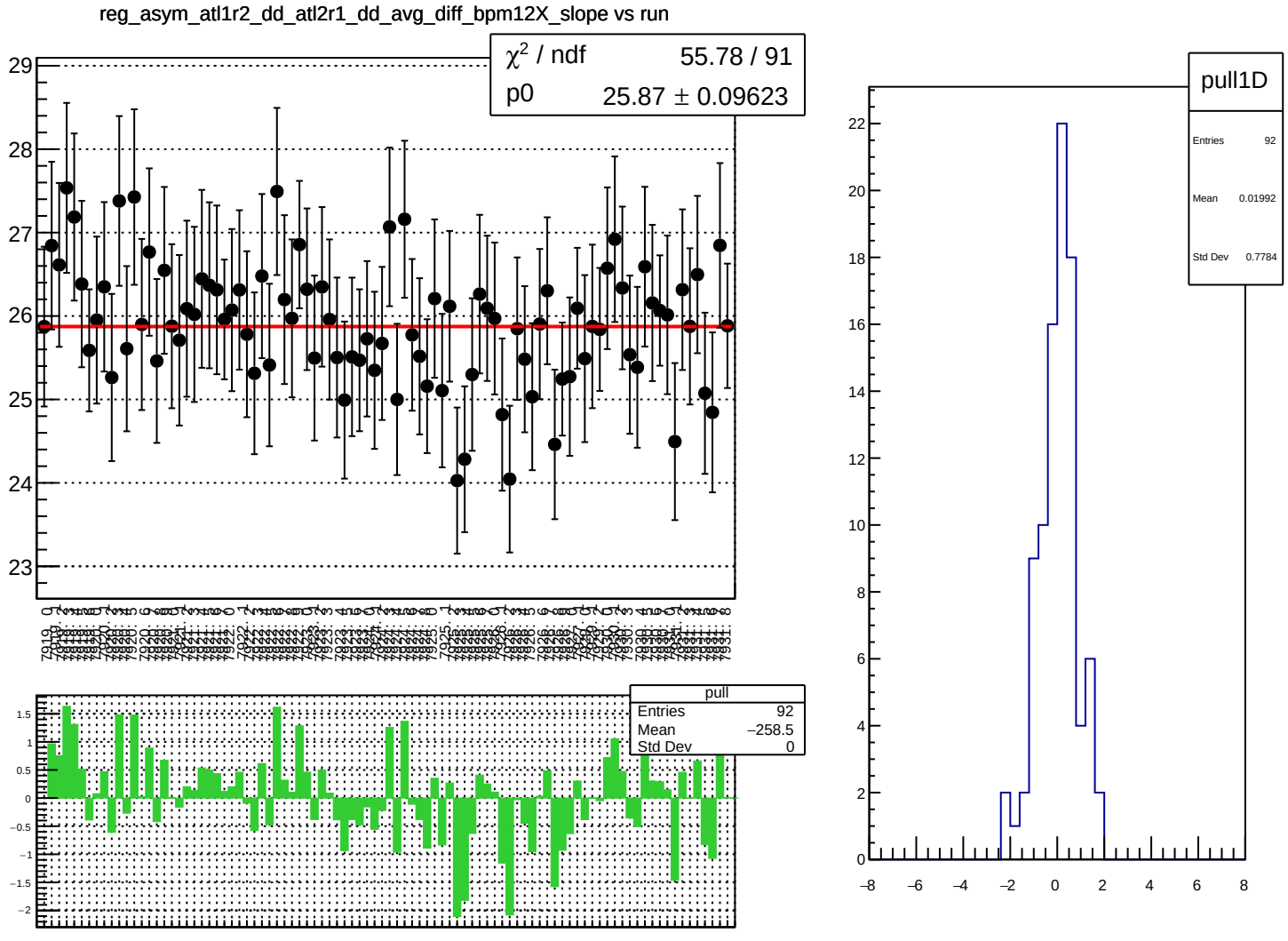

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm1X_slope vs run
χ^2 / ndf 42.97 / 91
p0 25.69 ± 2.808
pull
Entries 92
Mean −112.6
Std Dev 0
pull1D
Entries 92
Mean −0.00411
Std Dev 0.6834

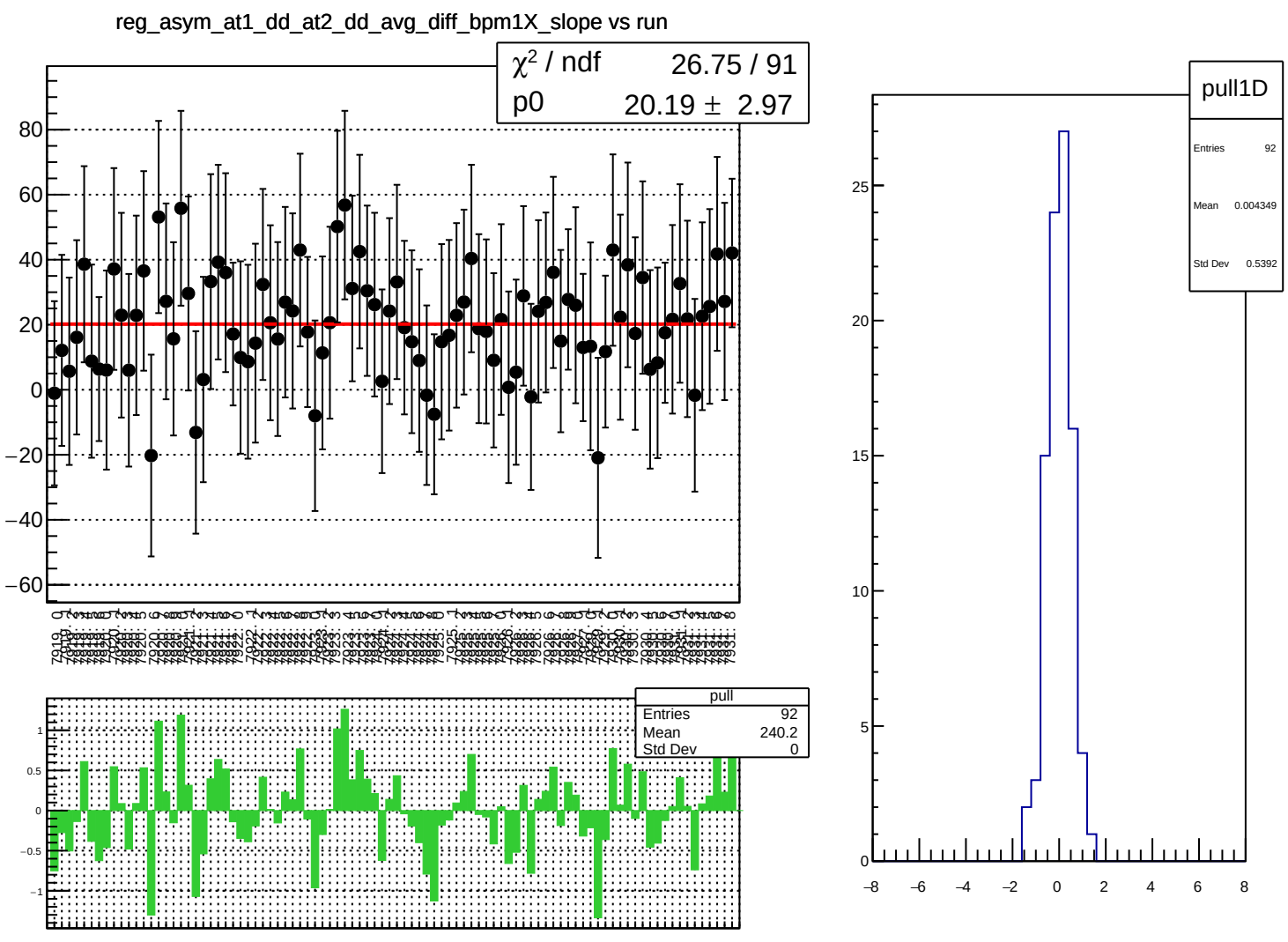

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 37.62 / 91
p0 −13.04 ± 2.896
pull
Entries 92
Mean −133.5
Std Dev 0
pull1D
Entries 92
Mean 0.01075
Std Dev 0.6394

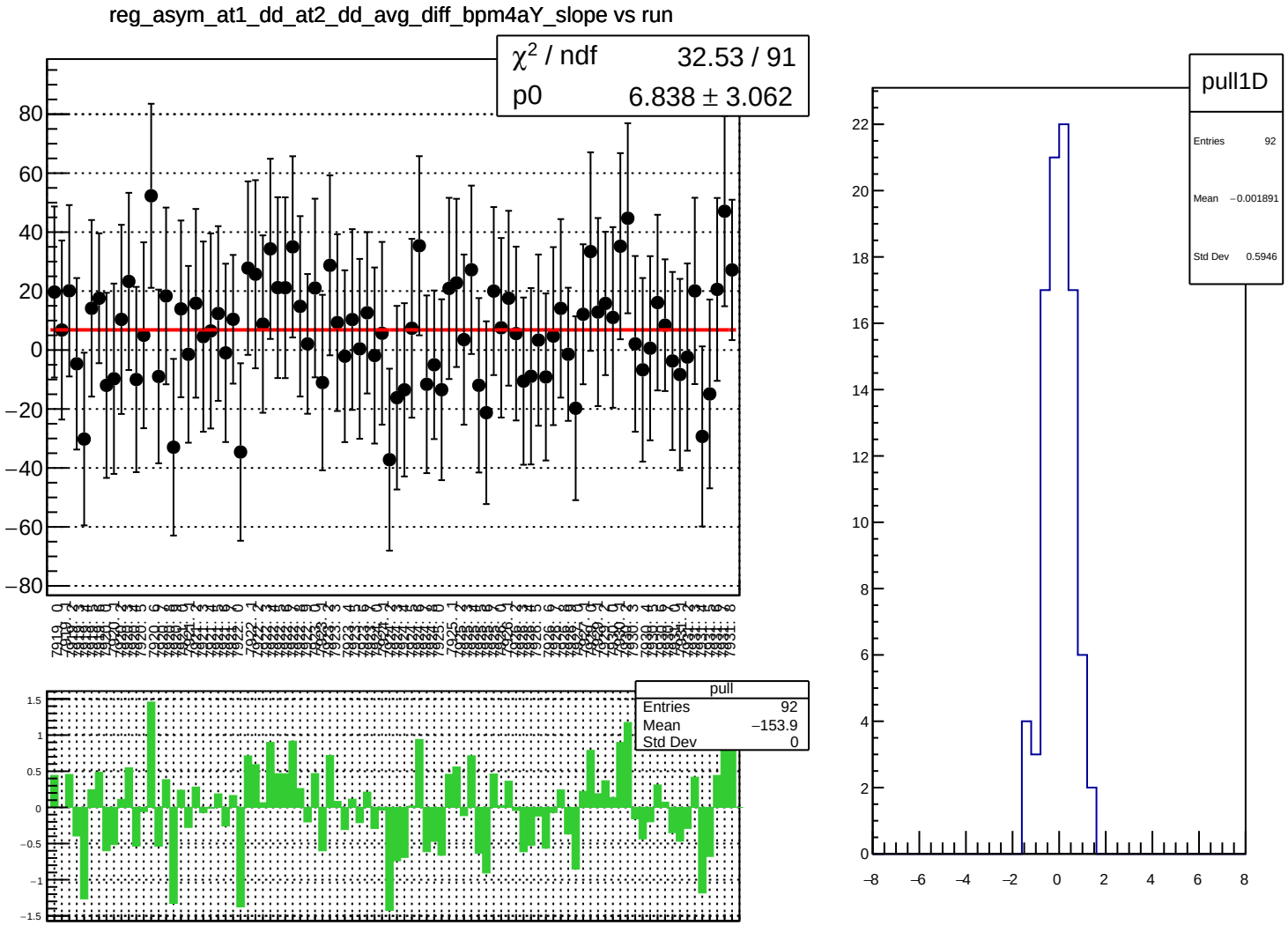

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 43.34 / 91
p0 −44.51 ± 2.511
pull
Entries 92
Mean −120.3
Std Dev 0

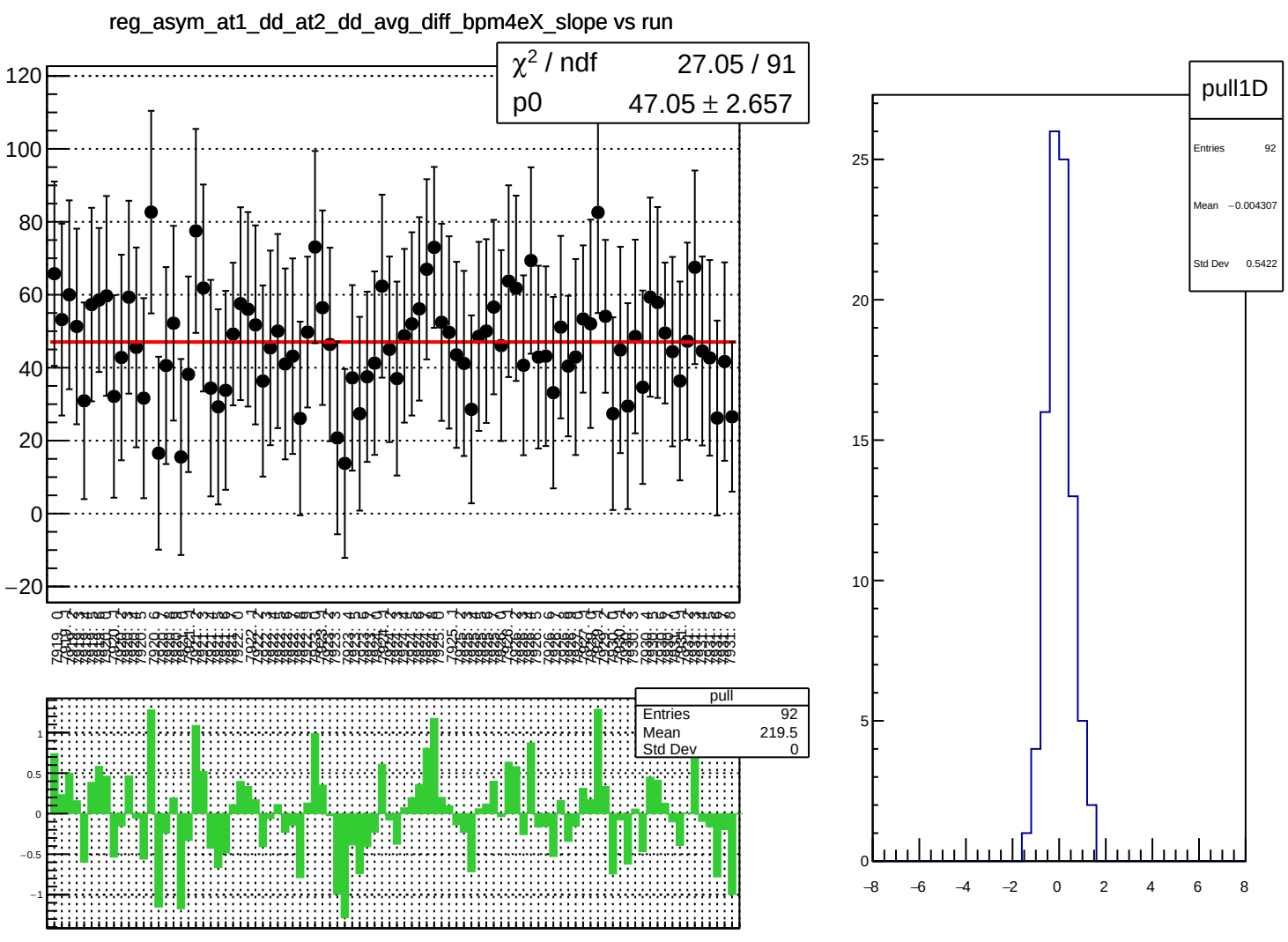

pull1D
Entries 92
Mean 0.003854
Std Dev 0.6863

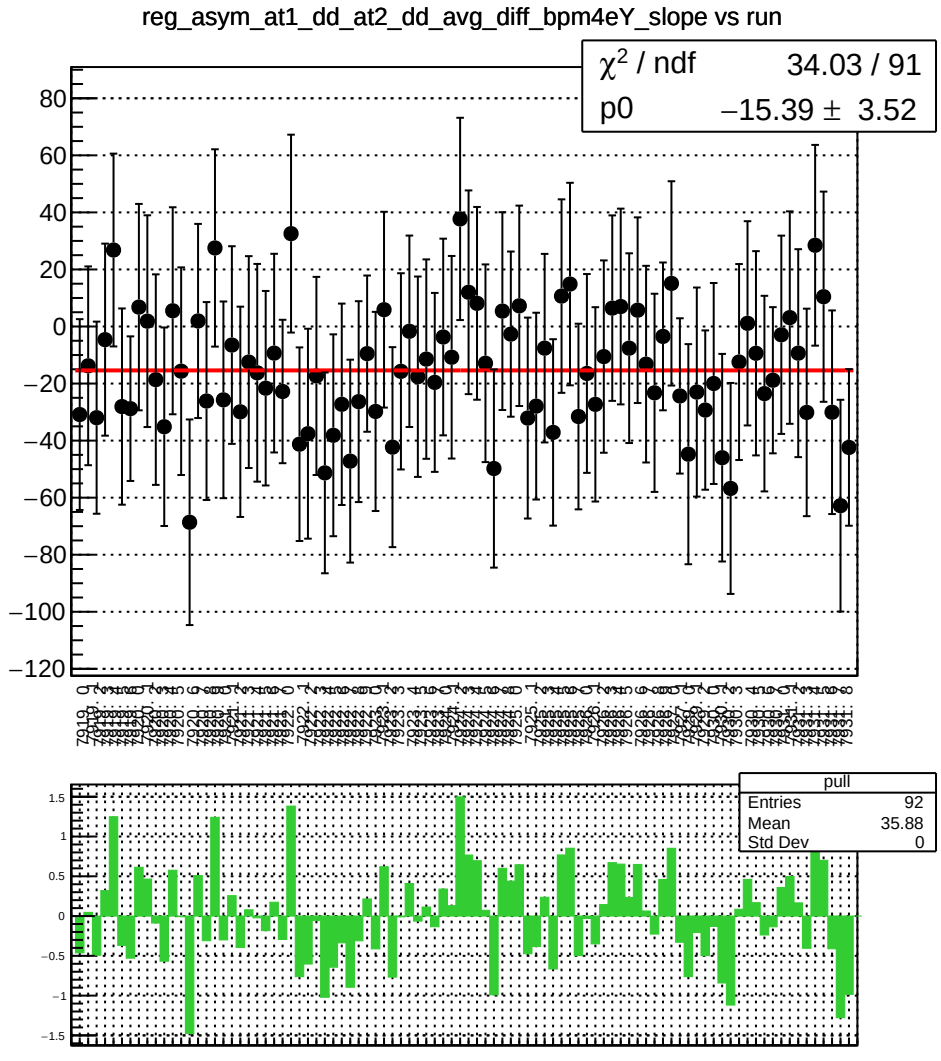

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 37.69 / 91
p0 9.756 ± 3.329
pull
Entries 92
Mean −122.4
Std Dev 0
pull1D
Entries 92
Mean −0.01054
Std Dev 0.64

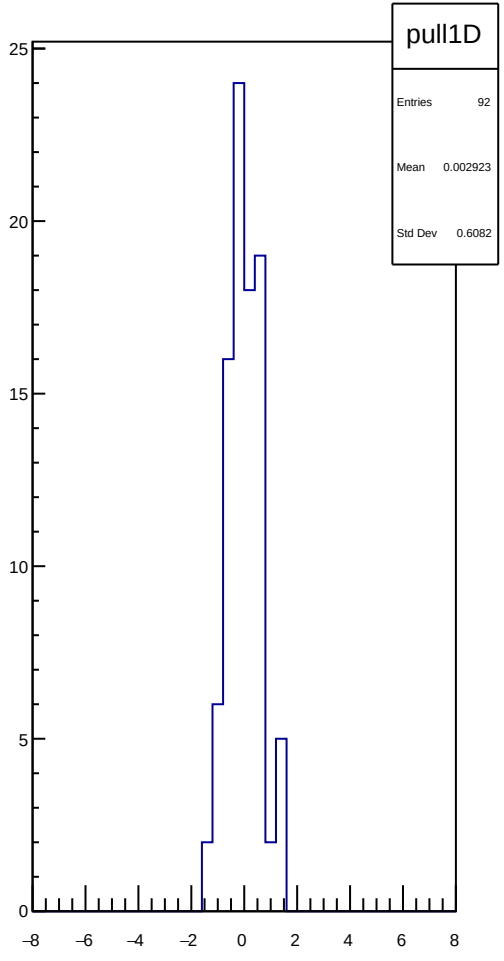

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 55.78 / 91
p0 25.87 ± 0.09623
pull
Entries 92
Mean −258.5
Std Dev 0
pull1D
Entries 92
Mean 0.01992
Std Dev 0.7784

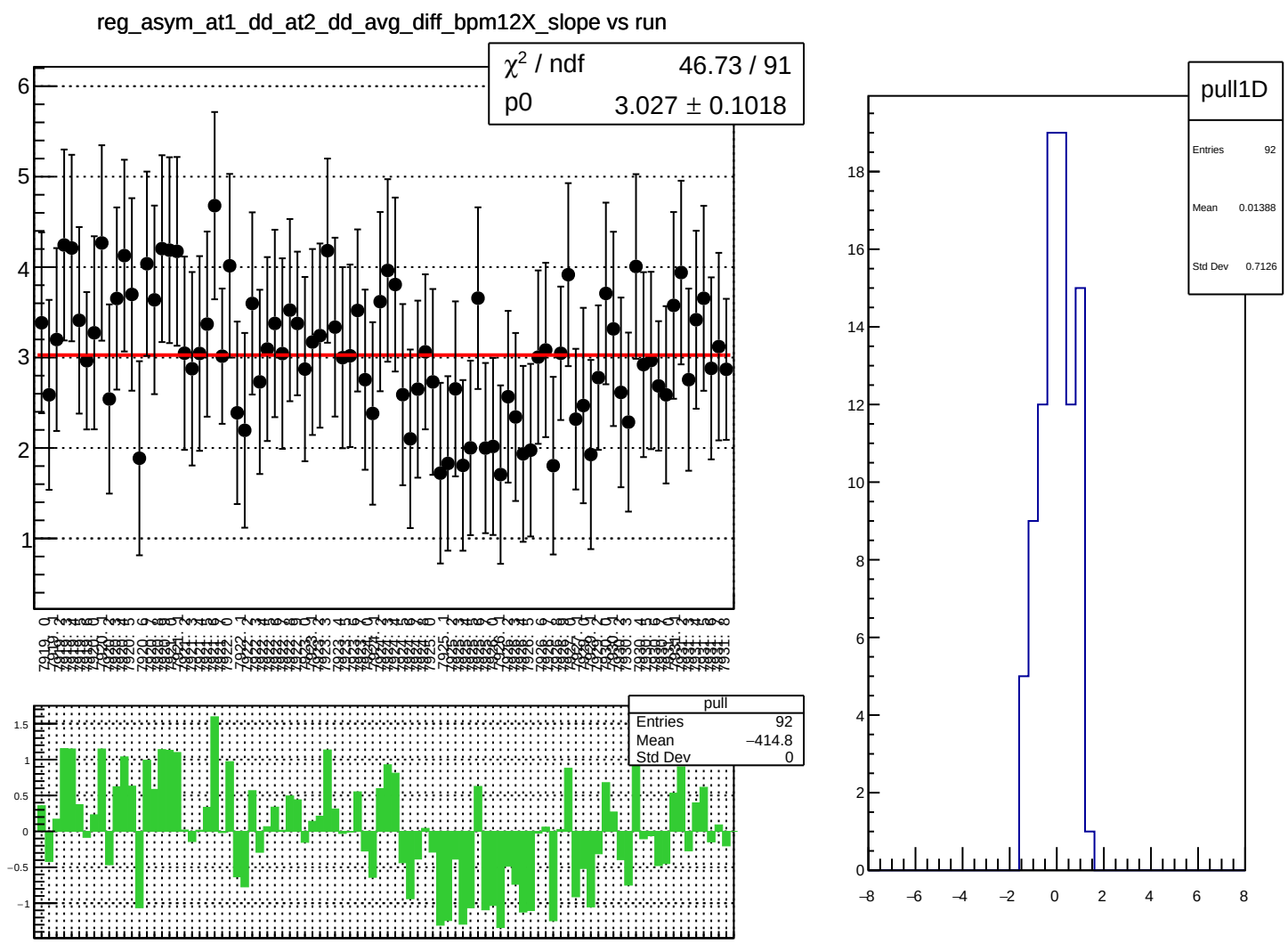

reg_asym_at1_dd_at2_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 26.75 / 91
p0 20.19 ± 2.97
pull
Entries 92
Mean 240.2
Std Dev 0
pull1D
Entries 92
Mean 0.004349
Std Dev 0.5392

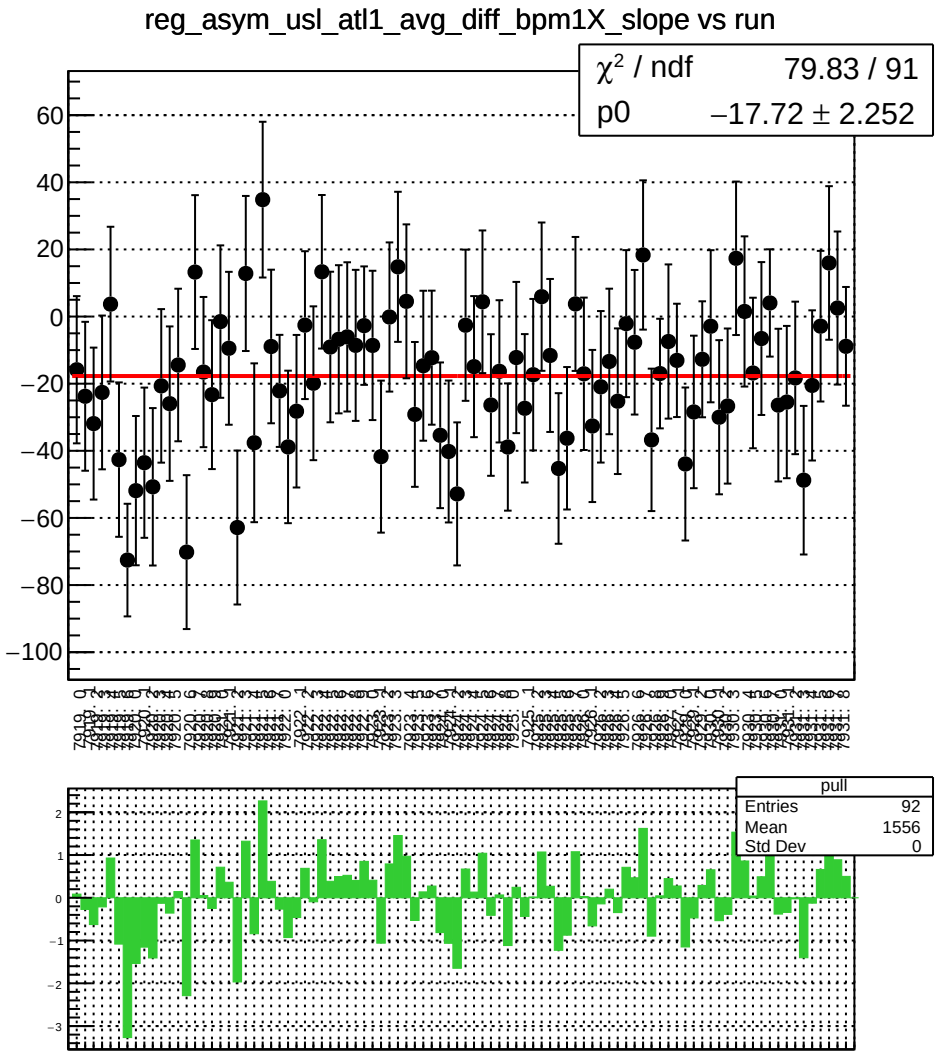

reg_asym_at1_dd_at2_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 32.53 / 91
p0 6.838 ± 3.062
pull
Entries 92
Mean −153.9
Std Dev 0
pull1D
Entries 92
Mean −0.001891
Std Dev 0.5946

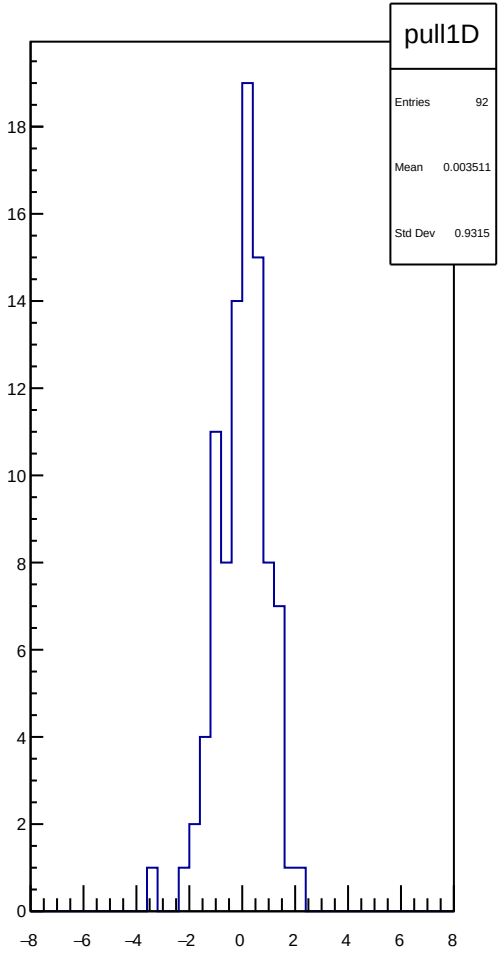

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 27.05 / 91
p0 47.05 ± 2.657
pull
Entries 92
Mean 219.5
Std Dev 0
pull1D
Entries 92
Mean −0.004307
Std Dev 0.5422

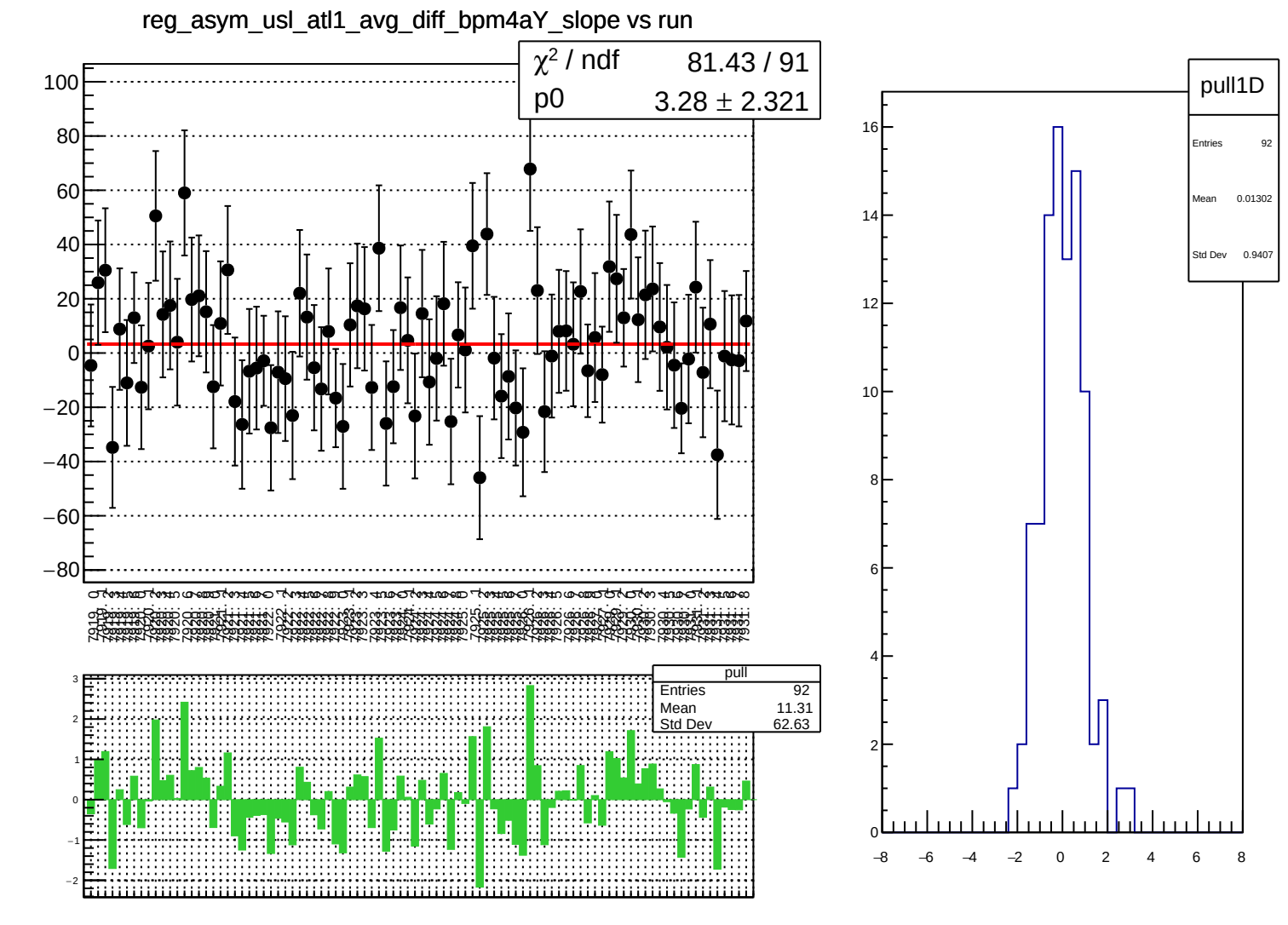

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 34.03 / 91
p0 −15.39 ± 3.52
pull
Entries 92
Mean 35.88
Std Dev 0

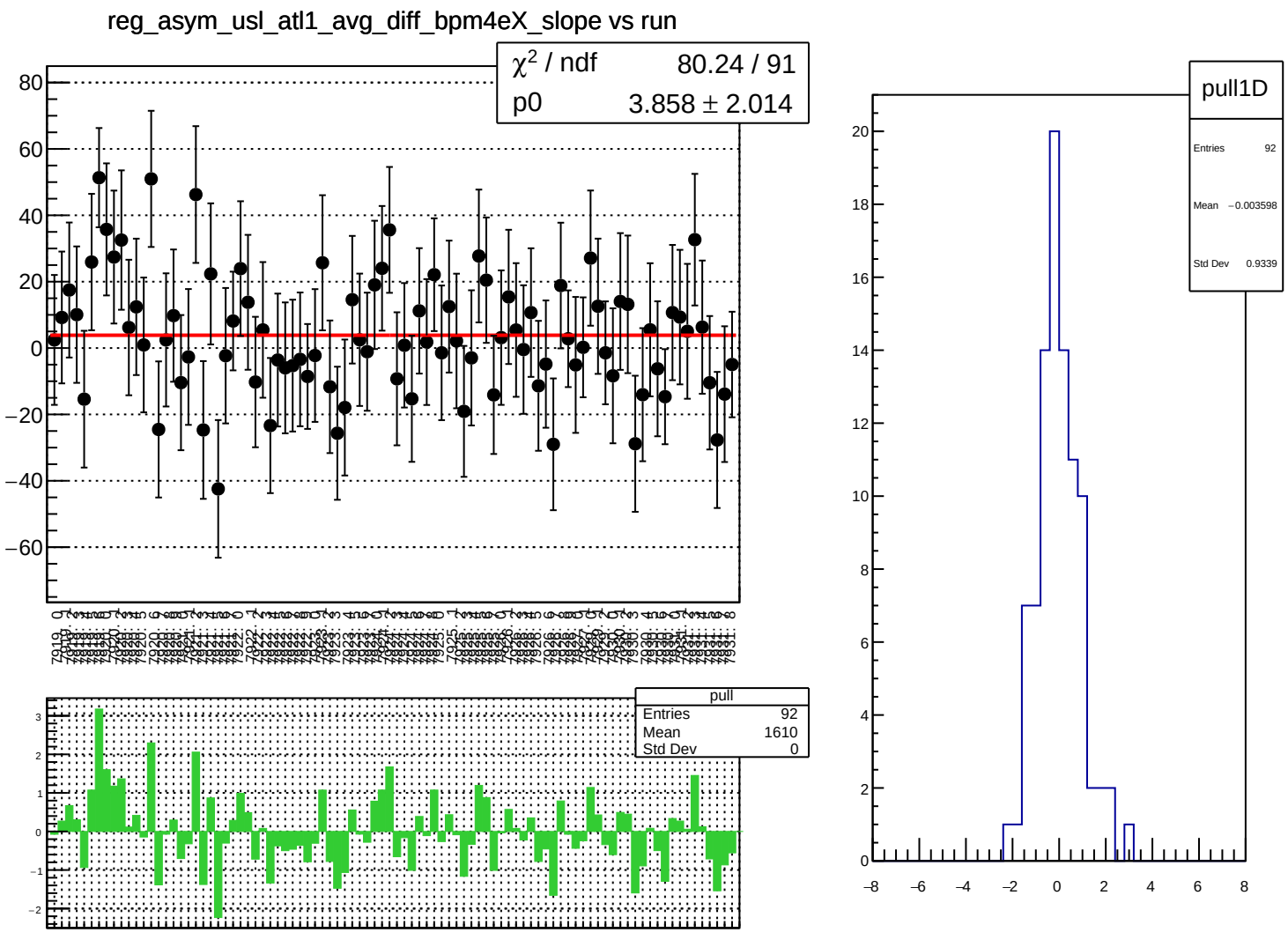

pull1D
Entries 92
Mean 0.002923
Std Dev 0.6082

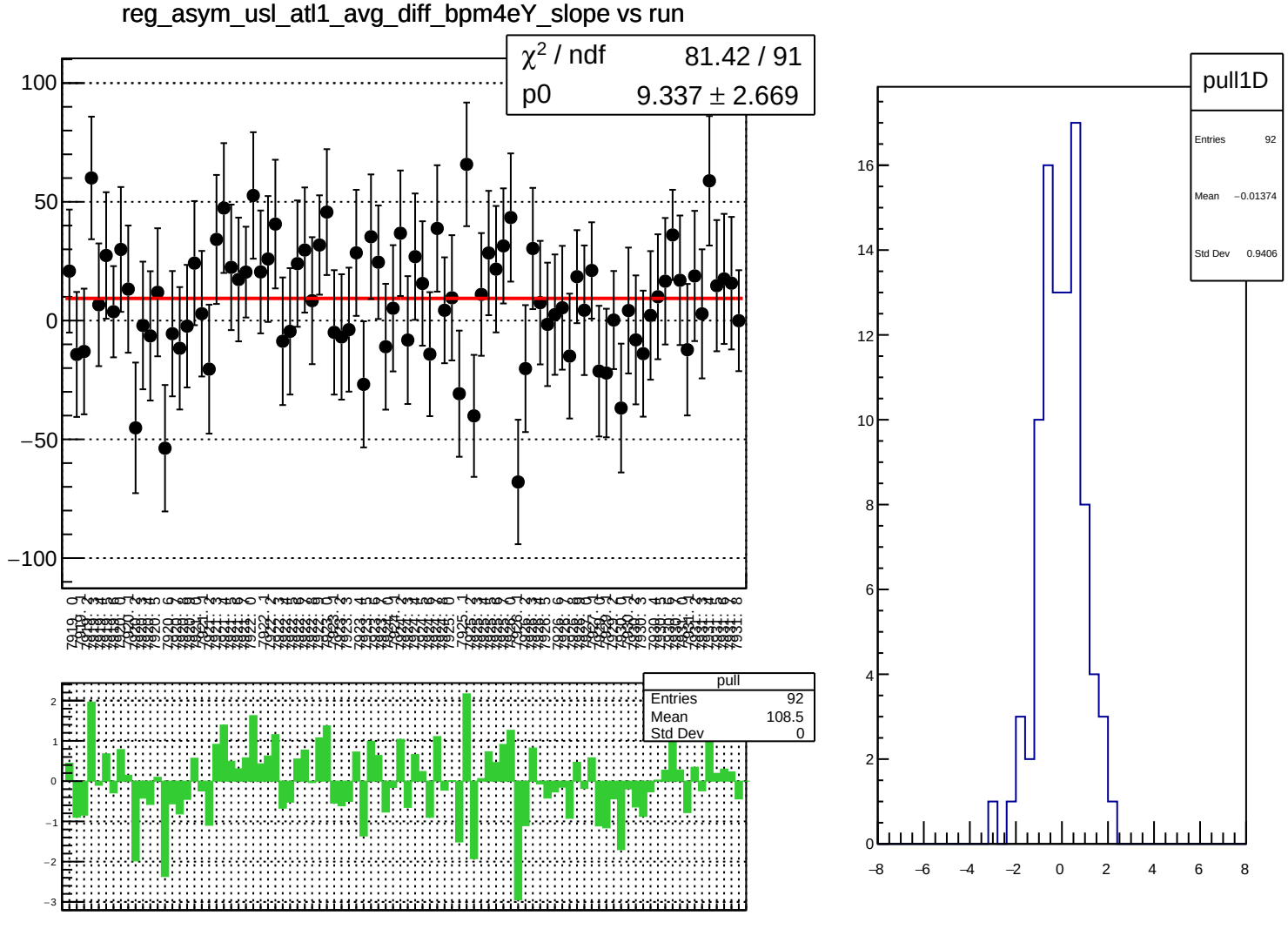

reg_asym_at1_dd_at2_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 46.73 / 91
p0 3.027 ± 0.1018
pull
Entries 92
Mean −414.8
Std Dev 0
pull1D
Entries 92
Mean 0.01388
Std Dev 0.7126

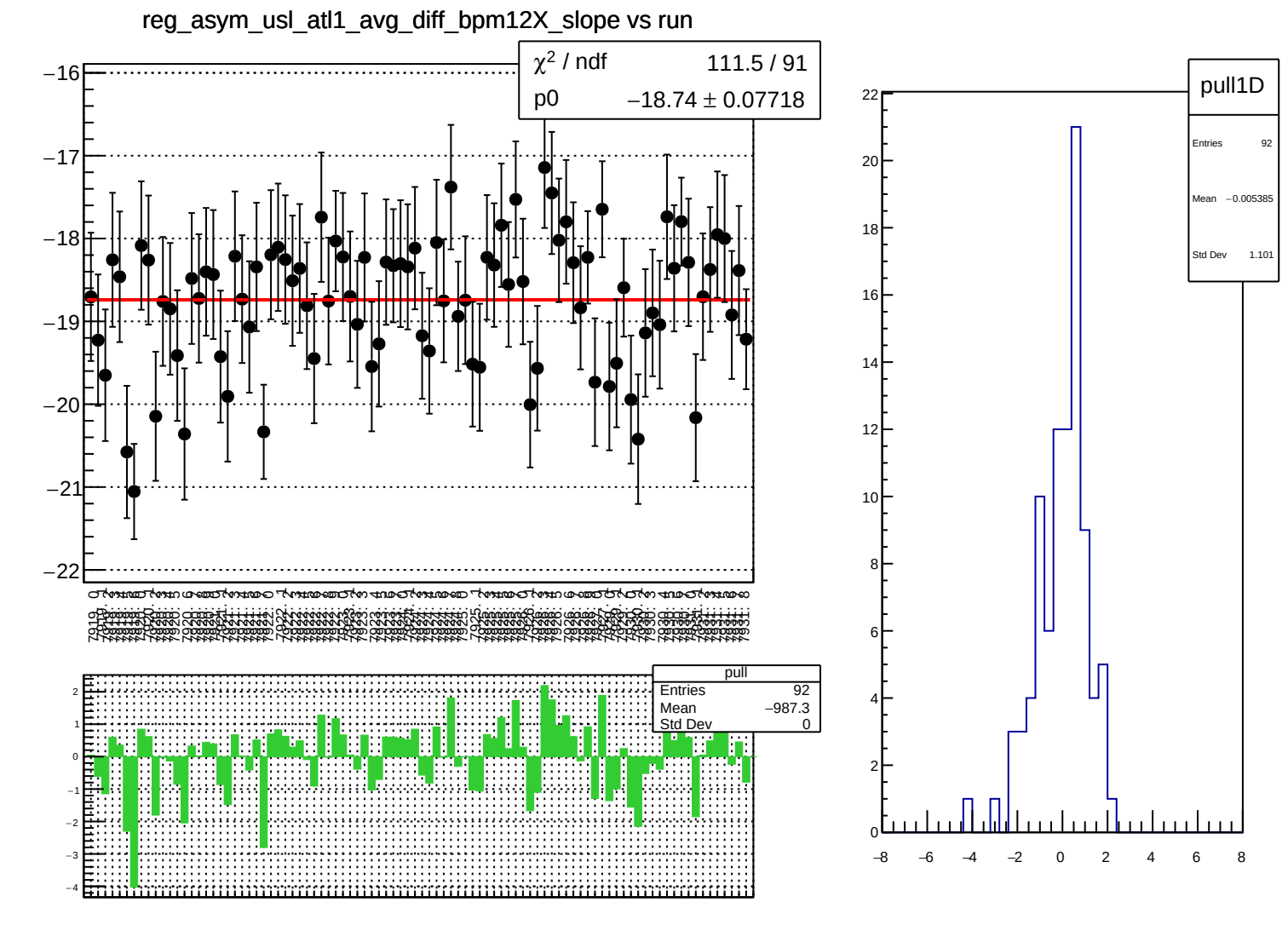

reg_asym_usl_atl1_avg_diff_bpm1X_slope vs run
χ² / ndf 79.83 / 91
p0 −17.72 ± 2.252
pull
Entries 92
Mean 1556
Std Dev 0

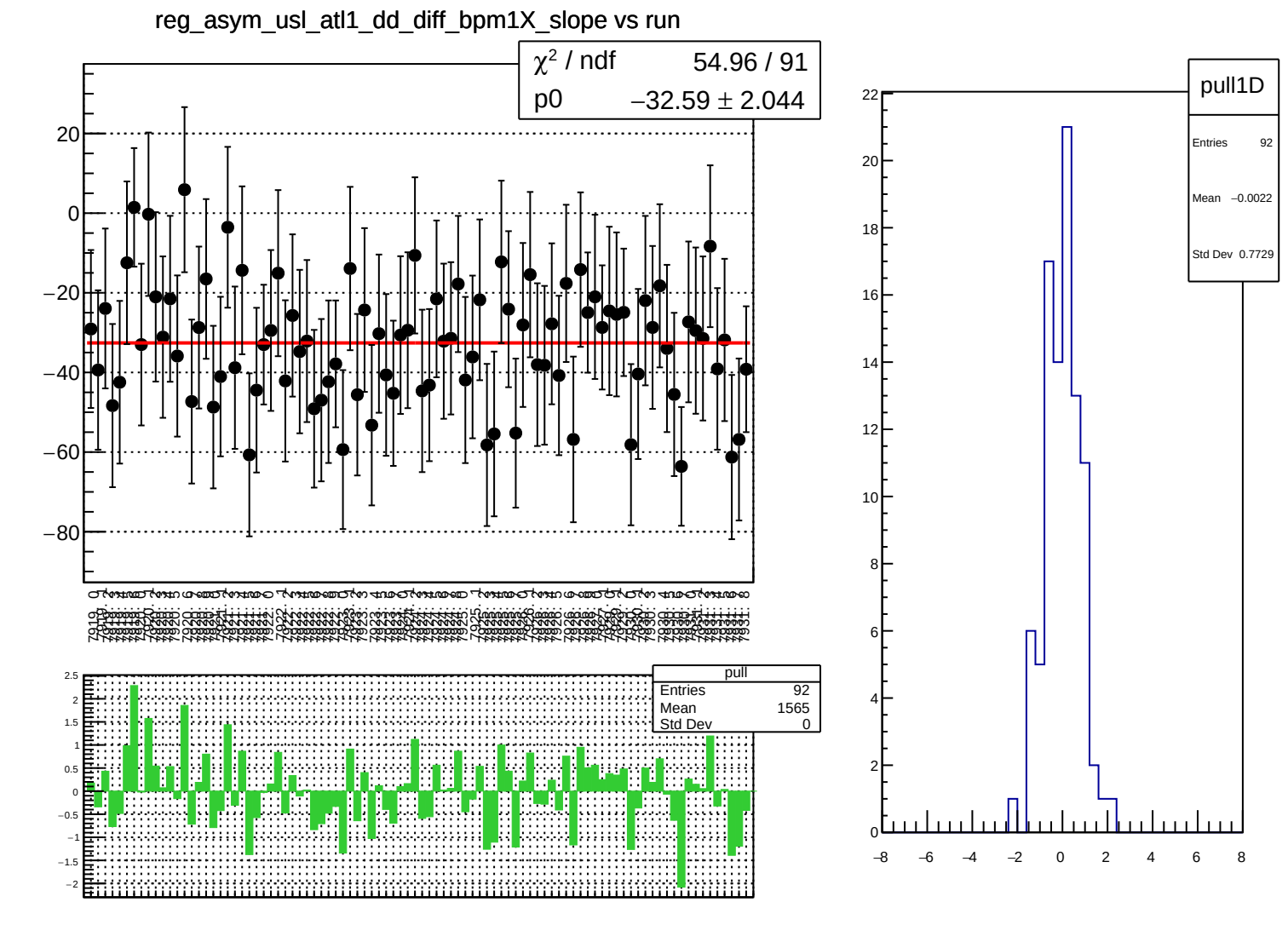

pull1D
Entries 92
Mean 0.003511
Std Dev 0.9315

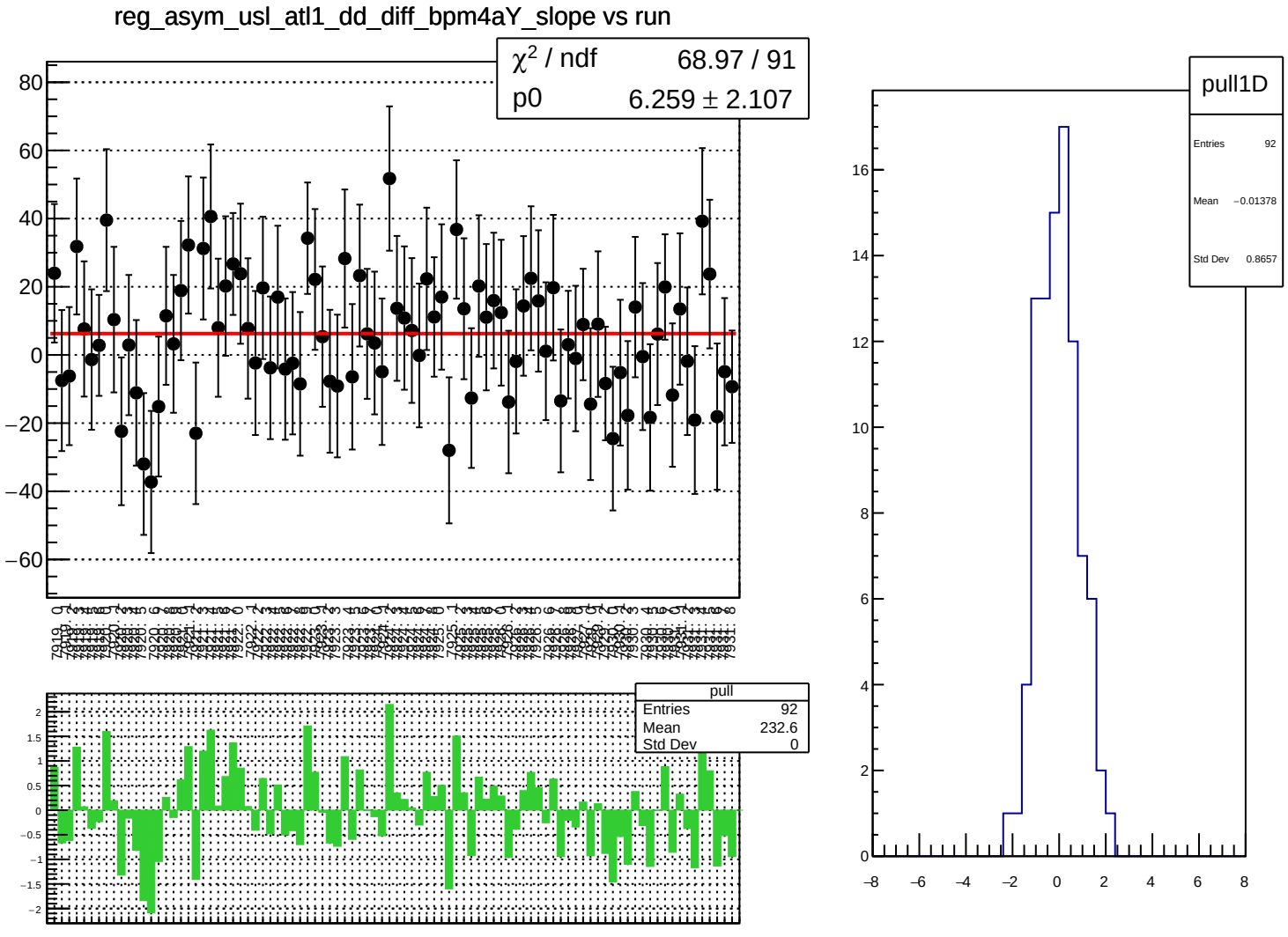

reg_asym_usl_atl1_avg_diff_bpm4aY_slope vs run
χ² / ndf 81.43 / 91
p0 3.28 ± 2.321
pull
Entries 92
Mean 11.31
Std Dev 62.63
pull1D
Entries 92
Mean 0.01302
Std Dev 0.9407

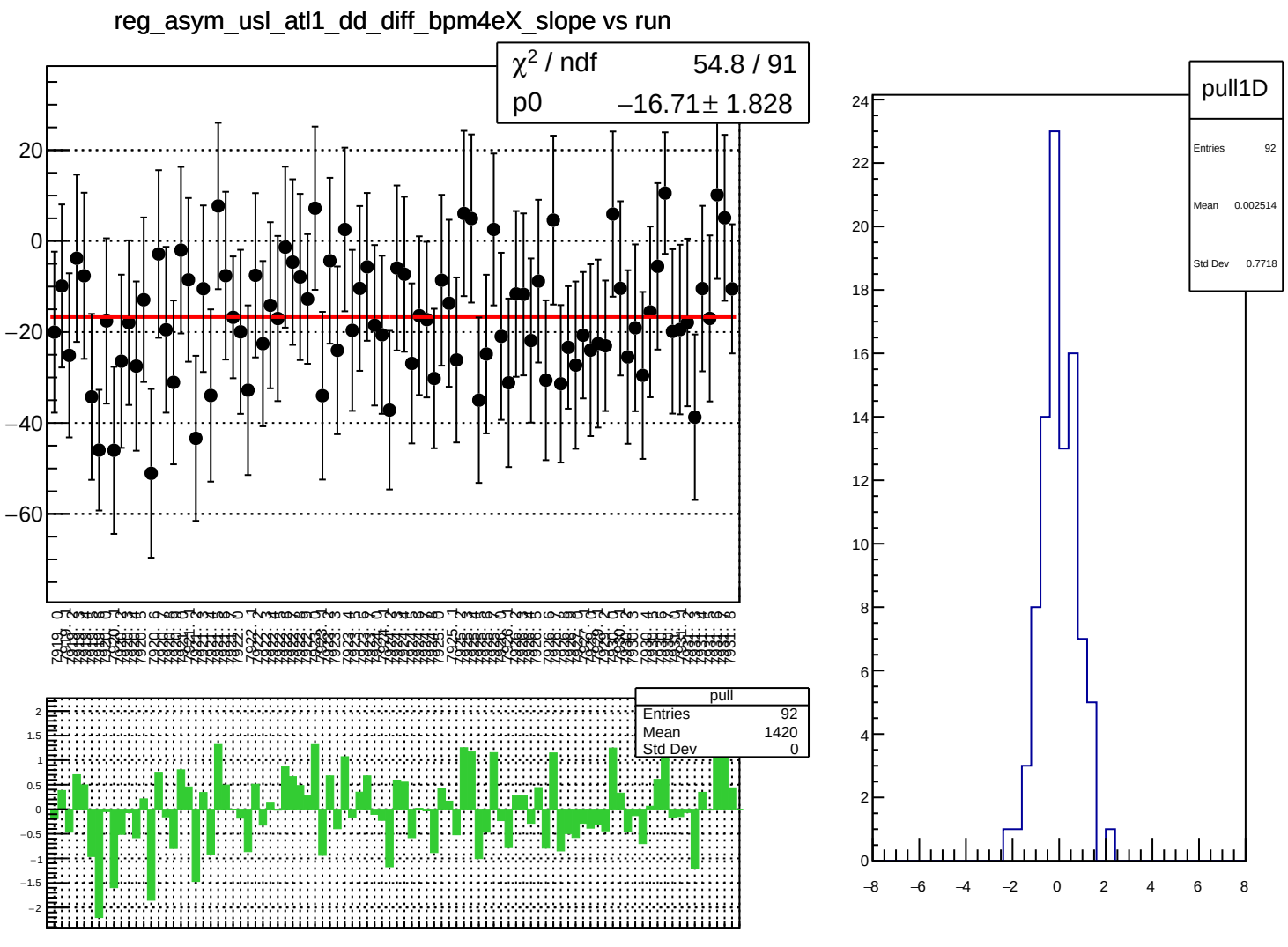

reg_asym_usl_atl1_avg_diff_bpm4eX_slope vs run
χ² / ndf 80.24 / 91
p0 3.858 ± 2.014
pull
Entries 92
Mean 1610
Std Dev 0
pull1D
Entries 92
Mean −0.003598
Std Dev 0.9339

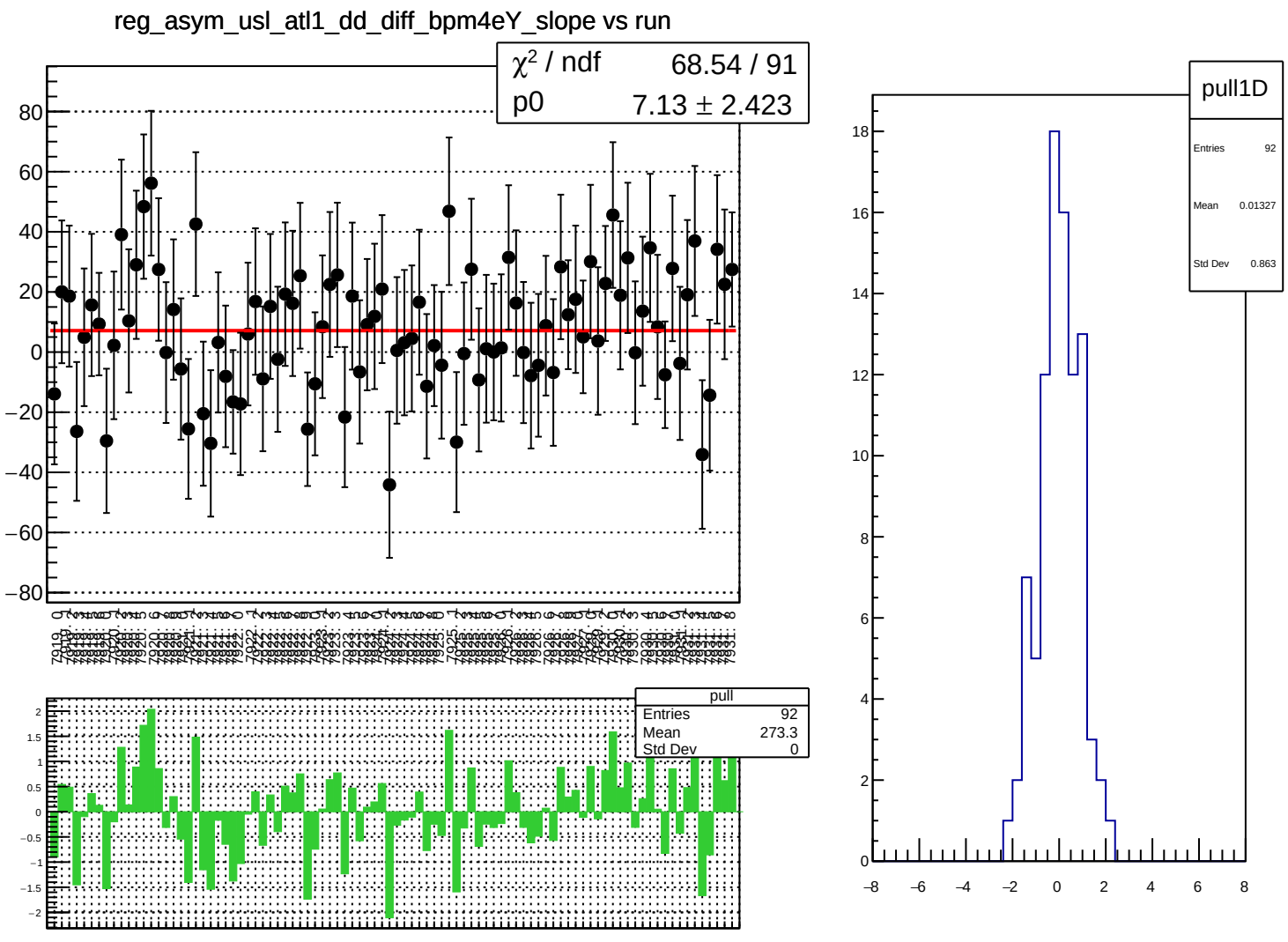

reg_asym_usl_atl1_avg_diff_bpm4eY_slope vs run
χ² / ndf 81.42 / 91
p0 9.337 ± 2.669
pull
Entries 92
Mean 108.5
Std Dev 0
pull1D
Entries 92
Mean −0.01374
Std Dev 0.9406

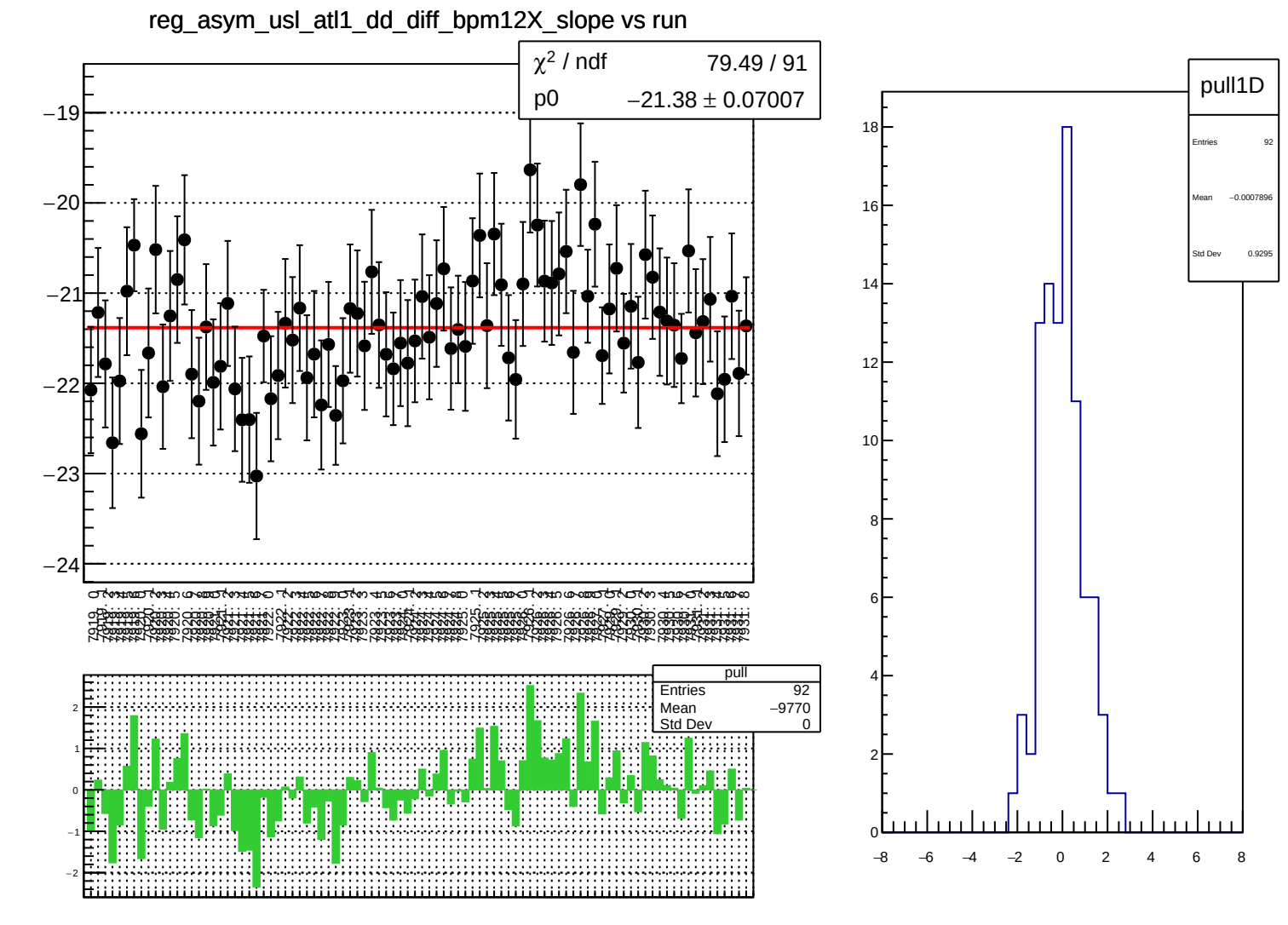

reg_asym_usl_atl1_avg_diff_bpm12X_slope vs run
χ² / ndf 111.5 / 91
p0 −18.74 ± 0.07718
pull
Entries 92
Mean −987.3
Std Dev 0
pull1D
Entries 92
Mean −0.005385
Std Dev 1.101

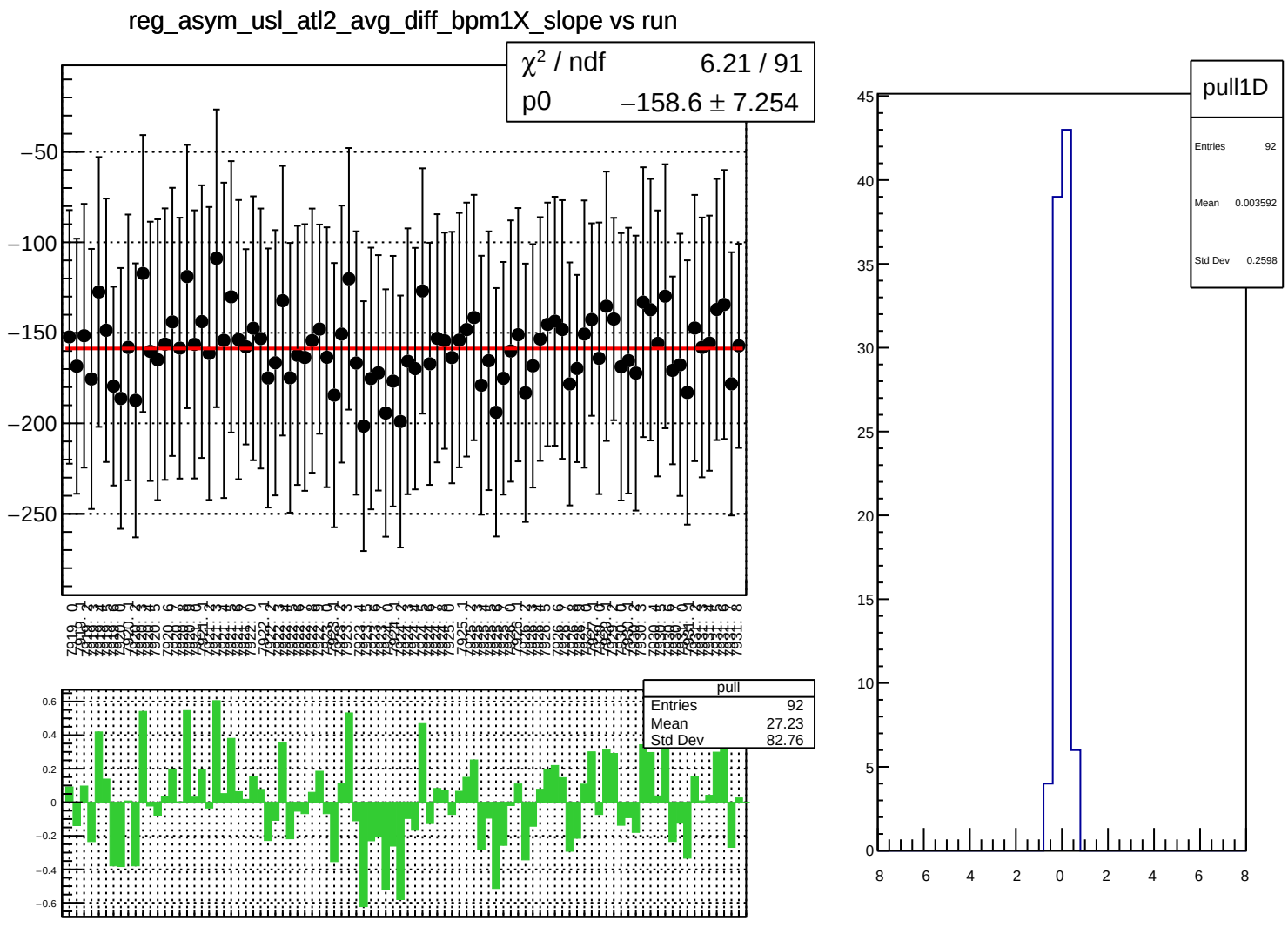

reg_asym_usl_atl1_dd_diff_bpm1X_slope vs run
χ² / ndf 54.96 / 91
p0 −32.59 ± 2.044
pull
Entries 92
Mean 1565
Std Dev 0
pull1D
Entries 92
Mean −0.0022
Std Dev 0.7729

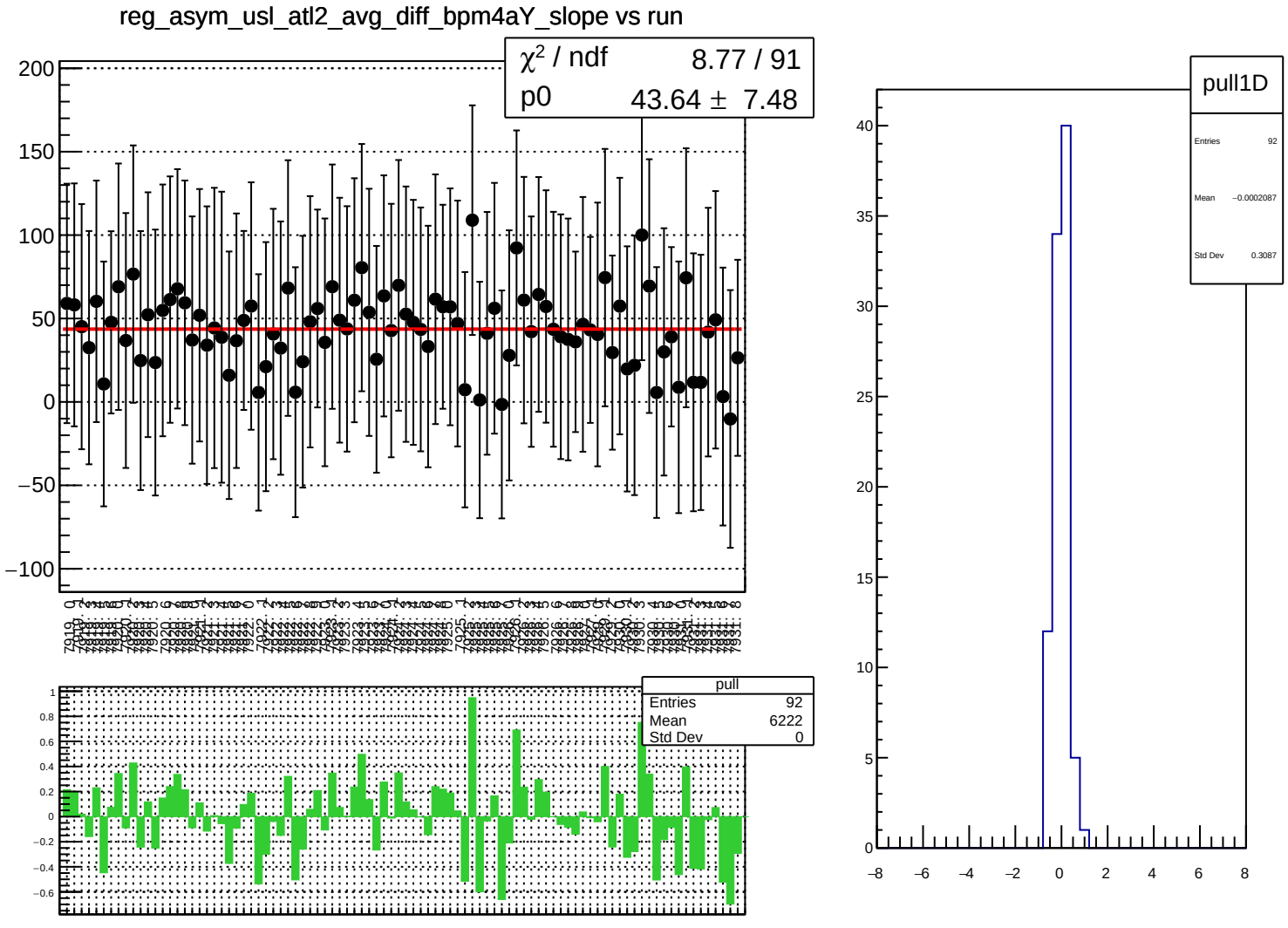

reg_asym_usl_atl1_dd_diff_bpm4aY_slope vs run
χ² / ndf 68.97 / 91
p0 6.259 ± 2.107
pull
Entries 92
Mean 232.6
Std Dev 0
pull1D
Entries 92
Mean −0.01378
Std Dev 0.8657

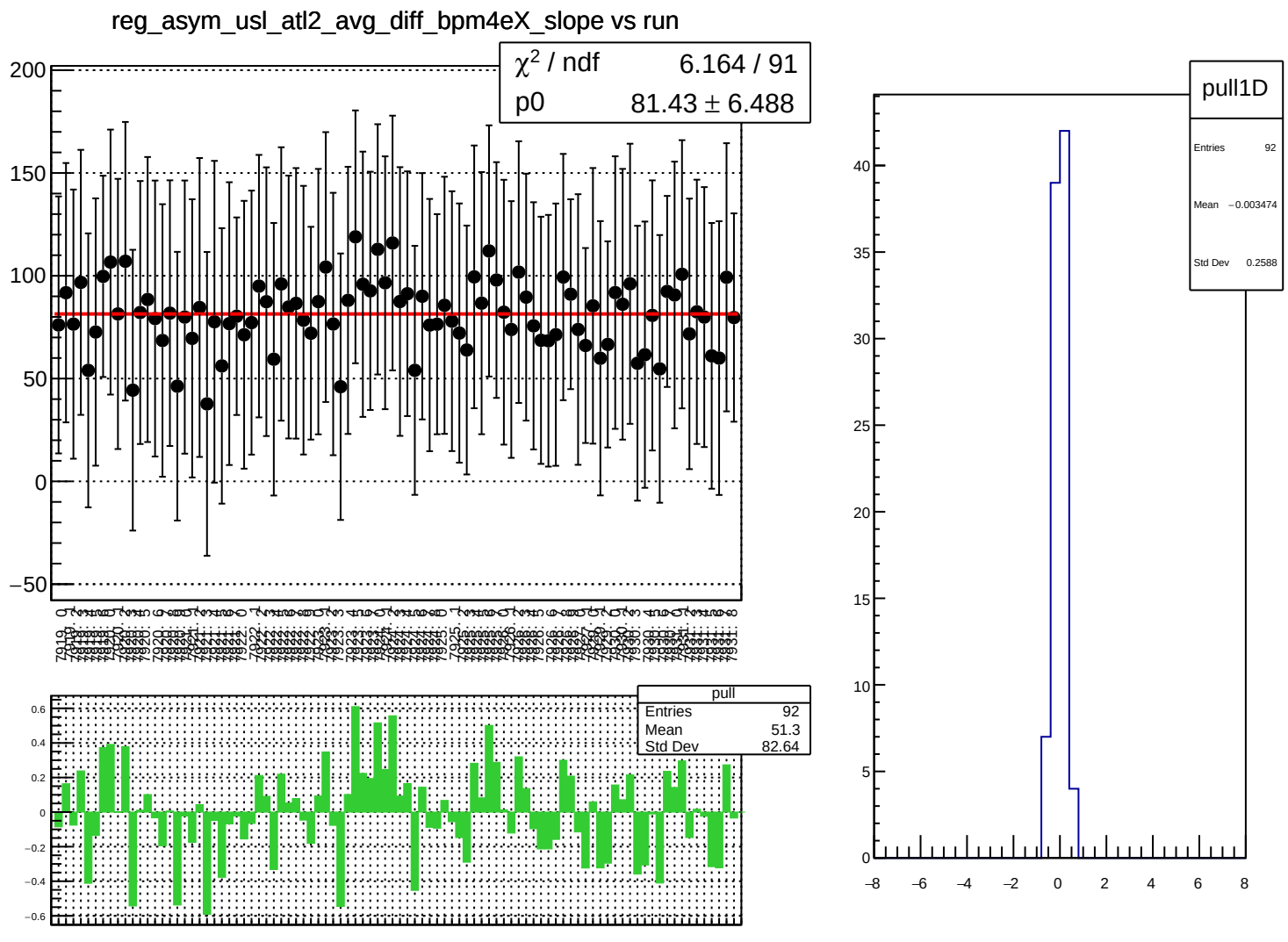

reg_asym_usl_atl1_dd_diff_bpm4eX_slope vs run
χ² / ndf 54.8 / 91
p0 −16.71± 1.828
pull
Entries 92
Mean 1420
Std Dev 0
pull1D
Entries 92
Mean 0.002514
Std Dev 0.7718

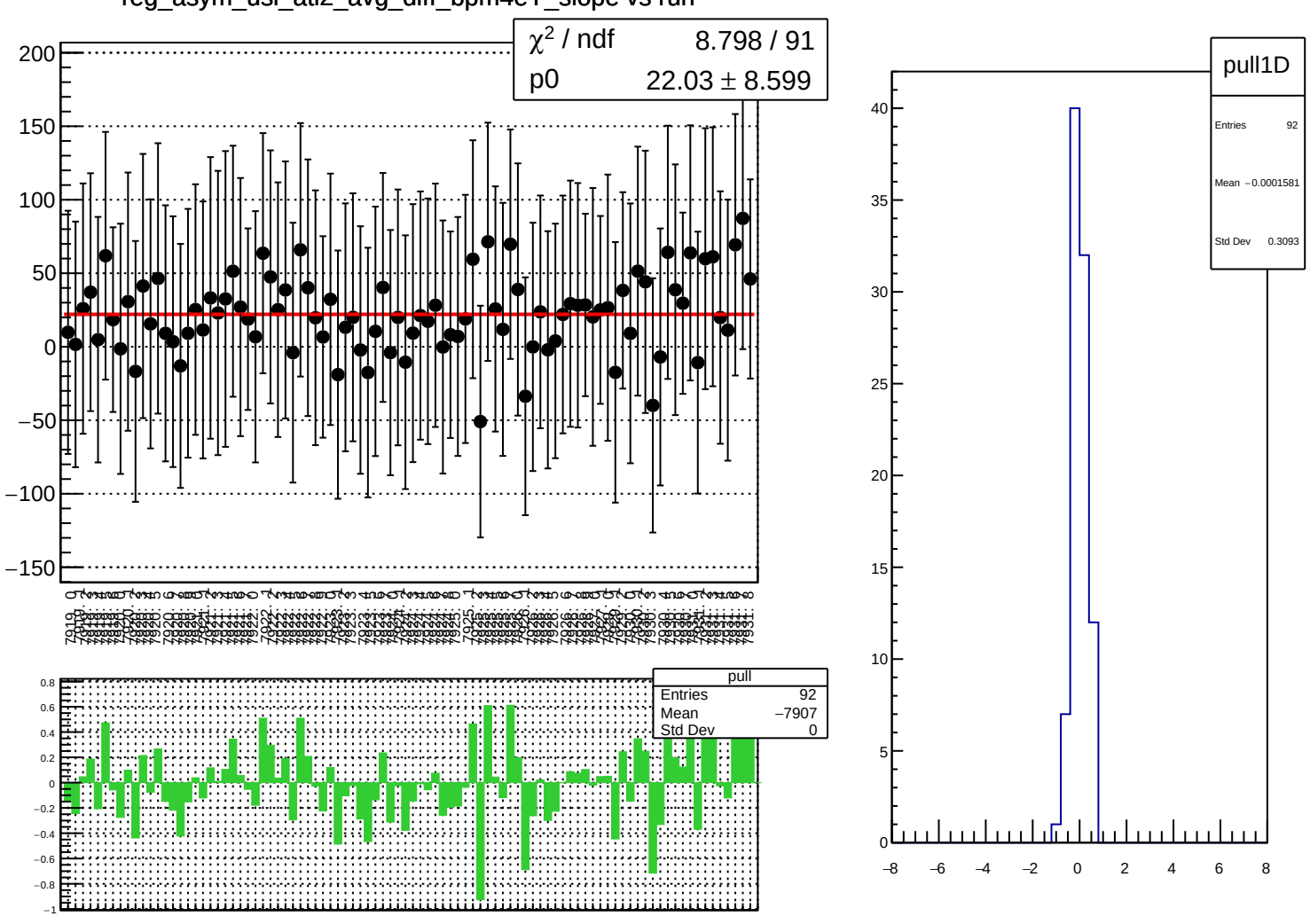

reg_asym_usl_atl1_dd_diff_bpm4eY_slope vs run
χ² / ndf 68.54 / 91
p0 7.13 ± 2.423
pull
Entries 92
Mean 273.3
Std Dev 0
pull1D
Entries 92
Mean 0.01327
Std Dev 0.863

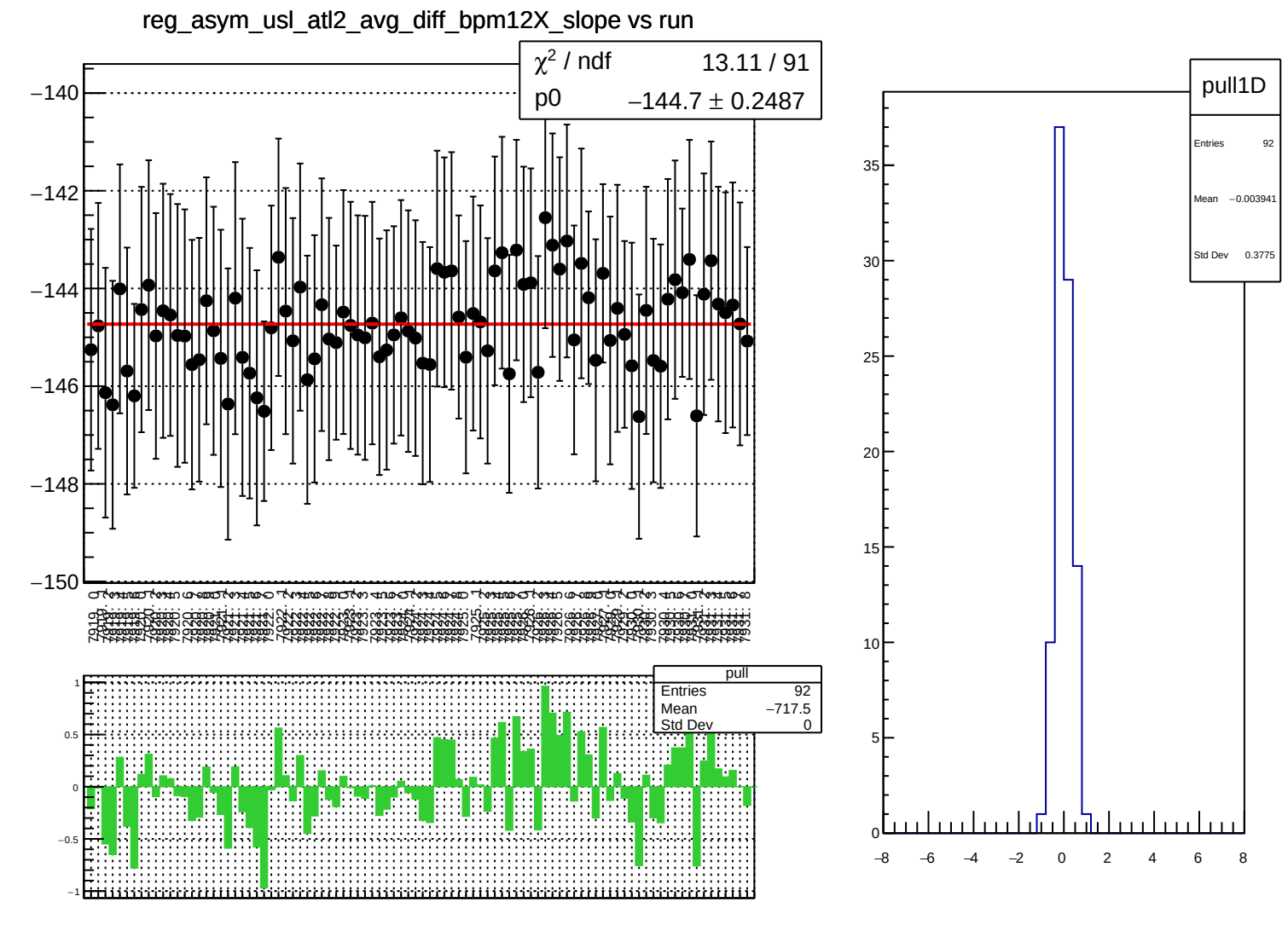

reg_asym_usl_atl1_dd_diff_bpm12X_slope vs run
χ² / ndf 79.49 / 91
p0 −21.38 ± 0.07007
pull
Entries 92
Mean −9770
Std Dev 0
pull1D
Entries 92
Mean −0.0007896
Std Dev 0.9295

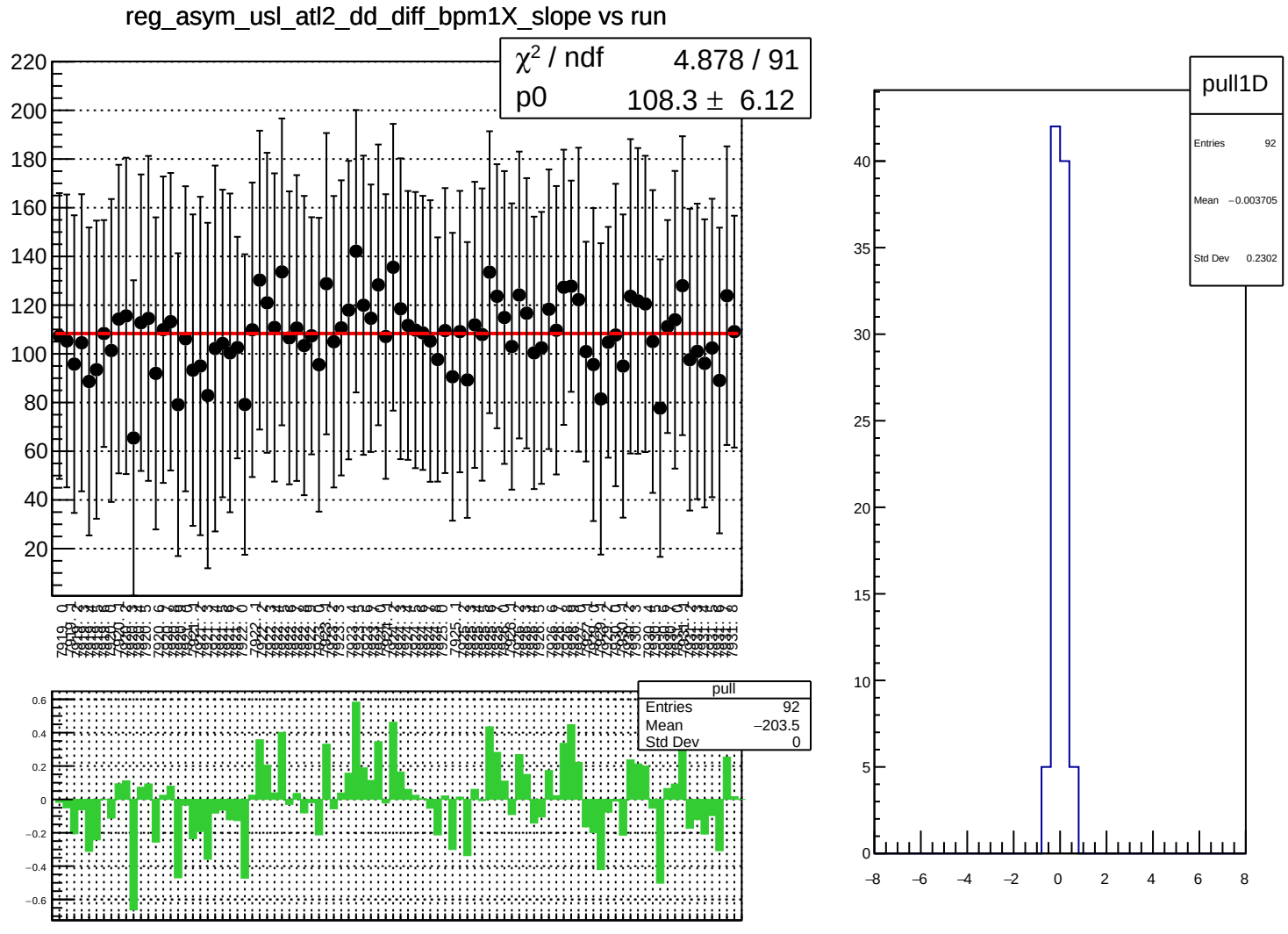

reg_asym_usl_atl2_avg_diff_bpm1X_slope vs run
χ² / ndf 6.21 / 91
p0 −158.6 ± 7.254
pull
Entries 92
Mean 27.23
Std Dev 82.76
pull1D
Entries 92
Mean 0.003592
Std Dev 0.2598

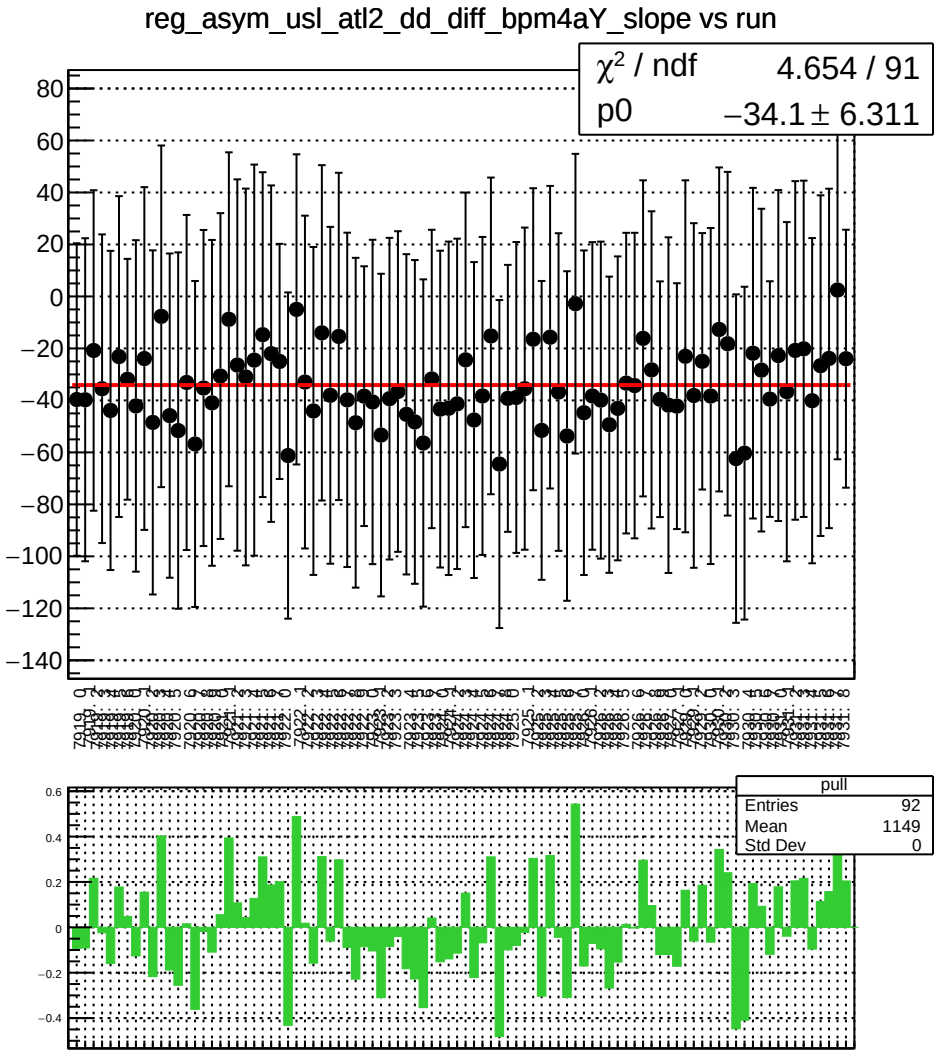

reg_asym_usl_atl2_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.77 / 91
p0 43.64 ± 7.48
pull
Entries 92
Mean 6222
Std Dev 0
pull1D
Entries 92
Mean −0.0002087
Std Dev 0.3087

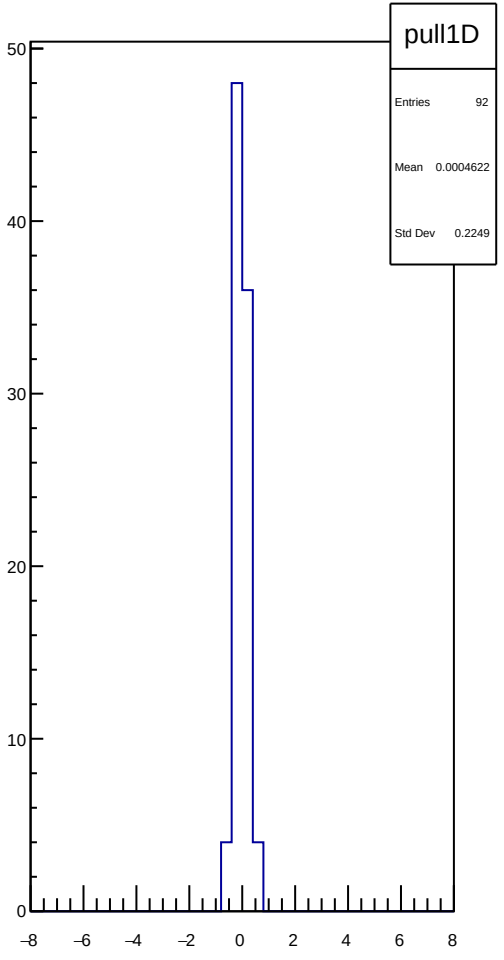

reg_asym_usl_atl2_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.164 / 91
p0 81.43 ± 6.488
pull
Entries 92
Mean 51.3
Std Dev 82.64
pull1D
Entries 92
Mean −0.003474
Std Dev 0.2588

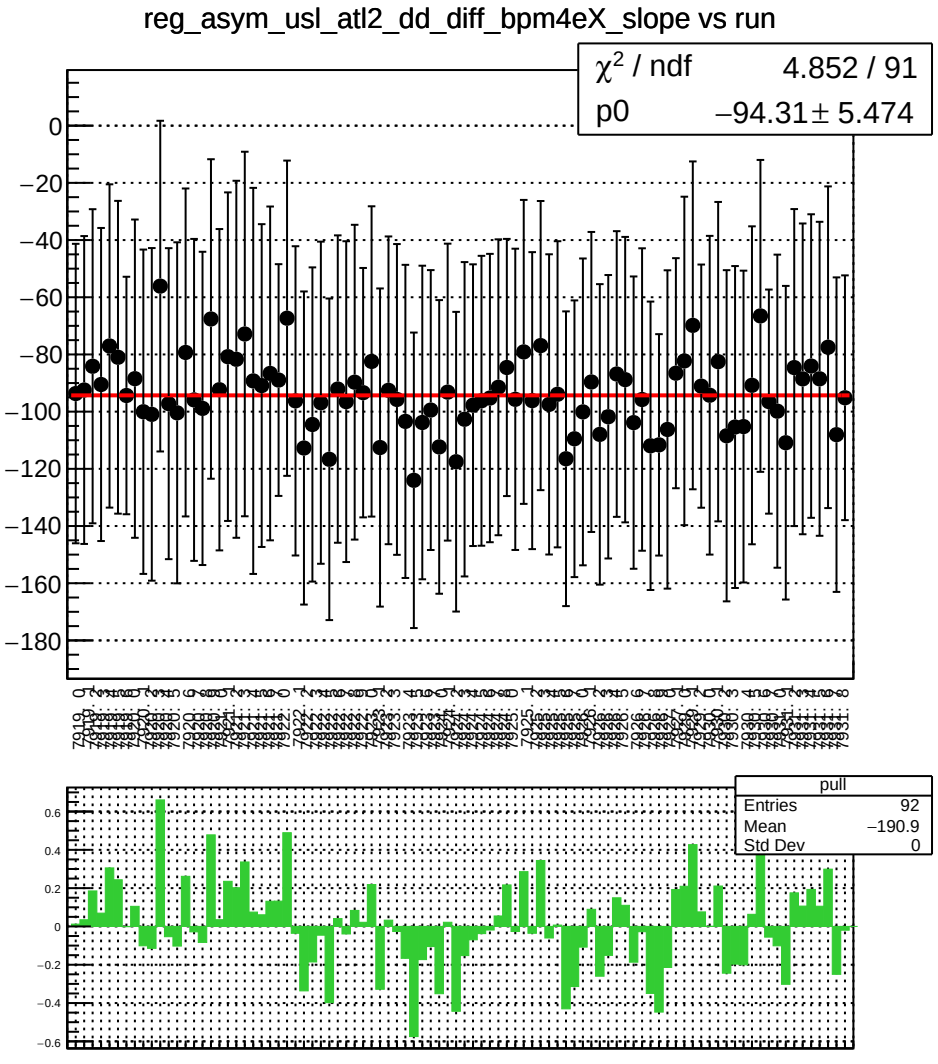

reg_asym_usl_atl2_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.798 / 91
p0 22.03 ± 8.599
pull
Entries 92
Mean −7907
Std Dev 0
pull1D
Entries 92
Mean −0.0001581
Std Dev 0.3093

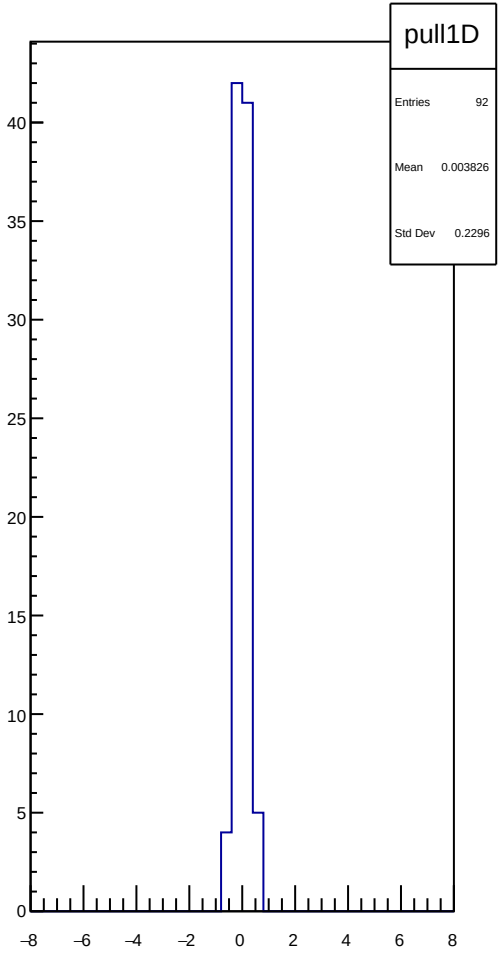

reg_asym_usl_atl2_avg_diff_bpm12X_slope vs run
χ² / ndf 13.11 / 91
p0 −144.7 ± 0.2487
pull
Entries 92
Mean −717.5
Std Dev 0
pull1D
Entries 92
Mean −0.003941
Std Dev 0.3775

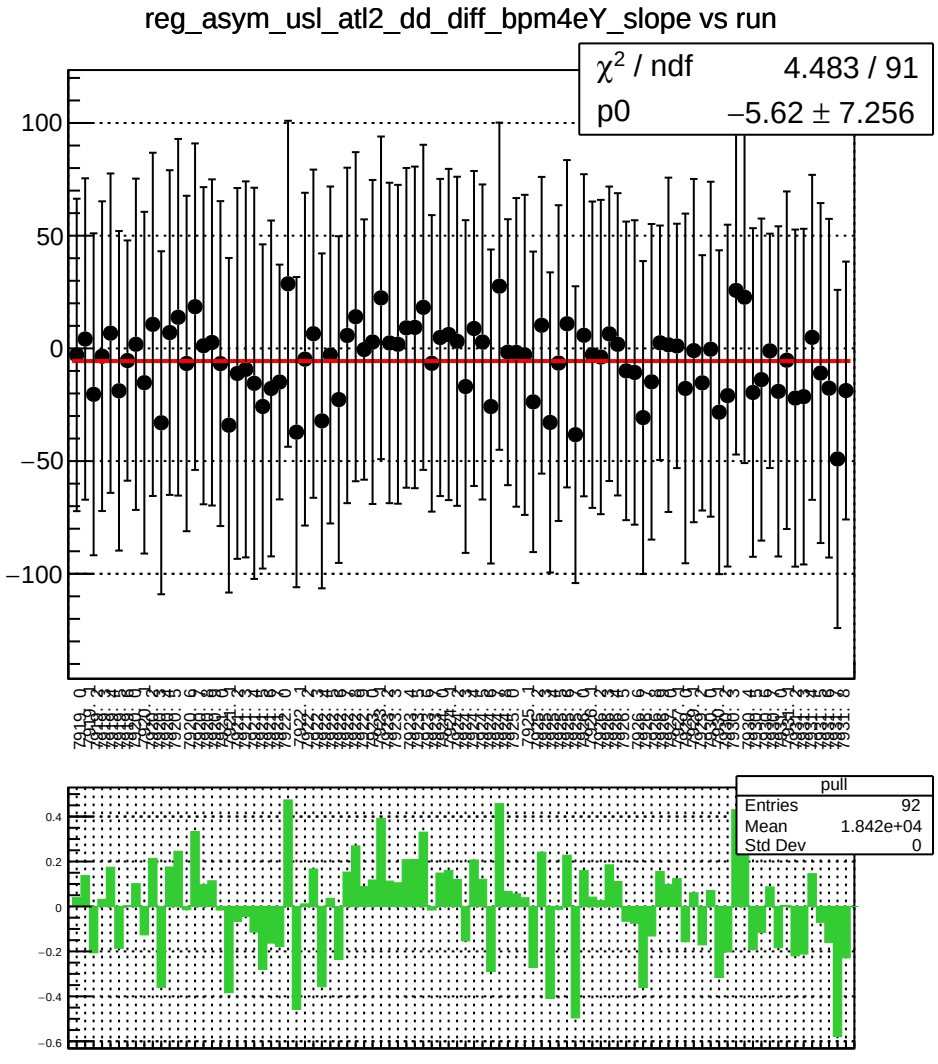

reg_asym_usl_atl2_dd_diff_bpm1X_slope vs run
χ² / ndf 4.878 / 91
p0 108.3 ± 6.12
pull
Entries 92
Mean −203.5
Std Dev 0
pull1D
Entries 92
Mean −0.003705
Std Dev 0.2302

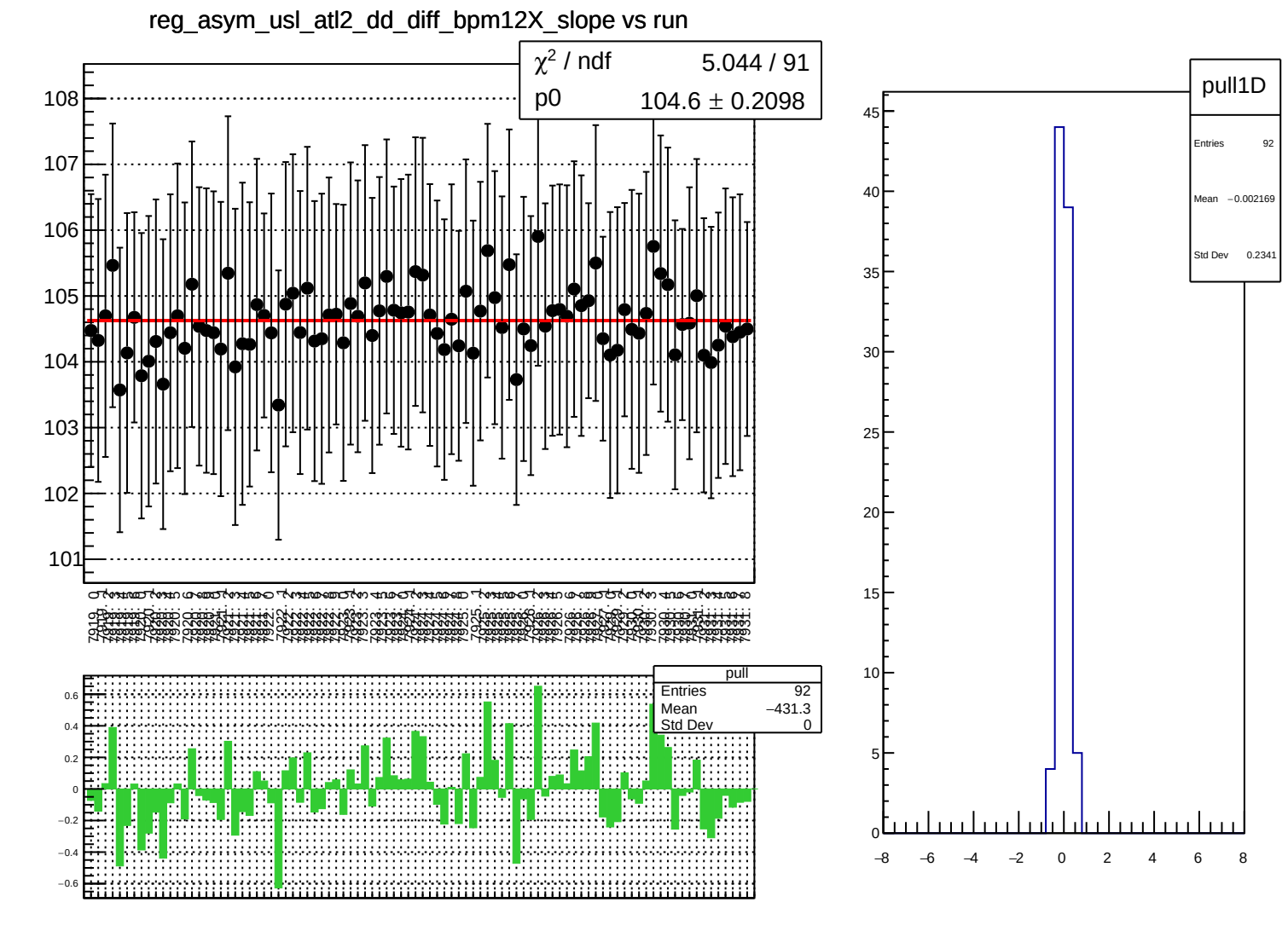

reg_asym_usl_atl2_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.654 / 91
p0 −34.1 ± 6.311
pull
Entries 92
Mean 1149
Std Dev 0

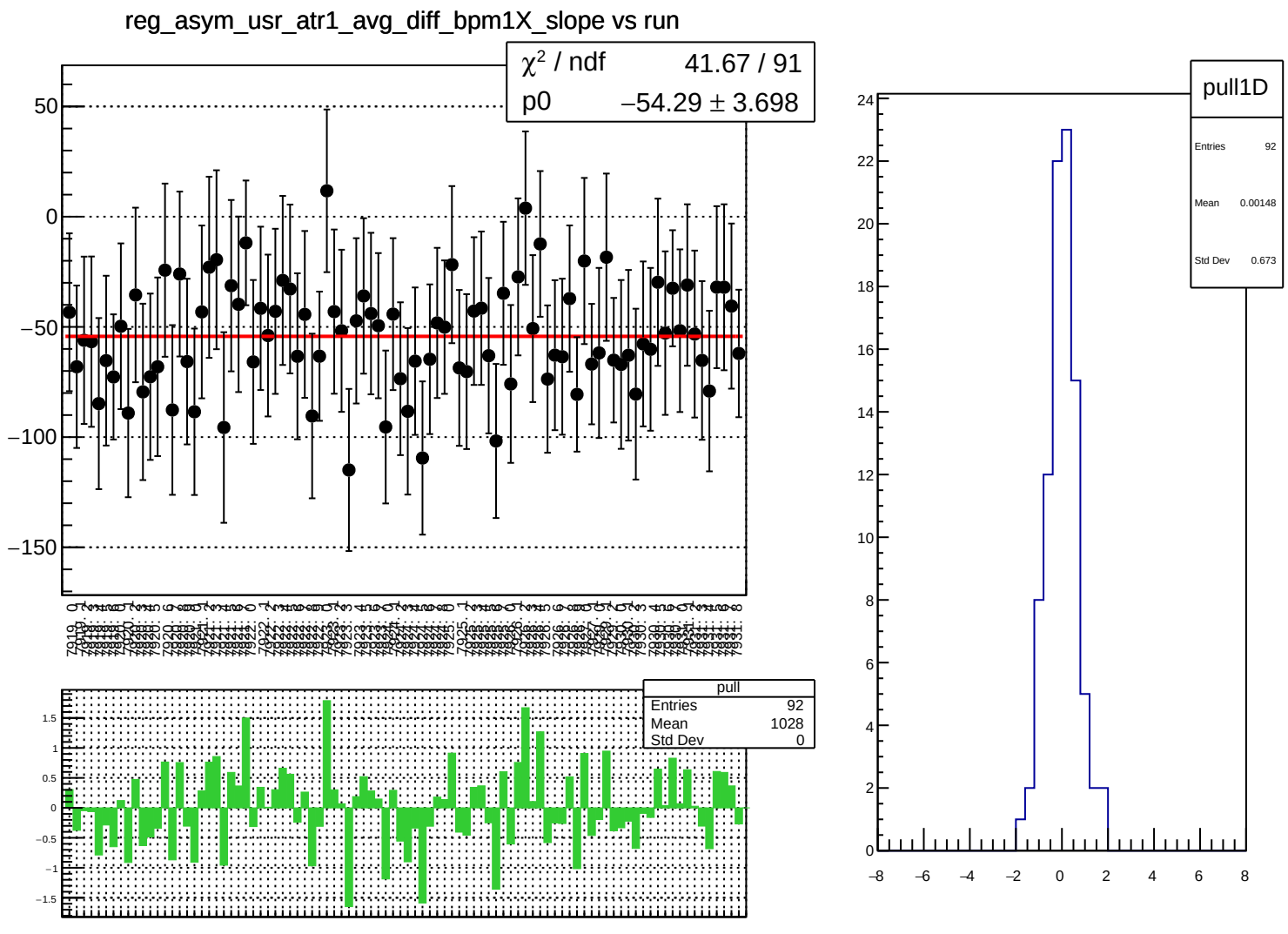

pull1D
Entries 92
Mean 0.0004622
Std Dev 0.2249

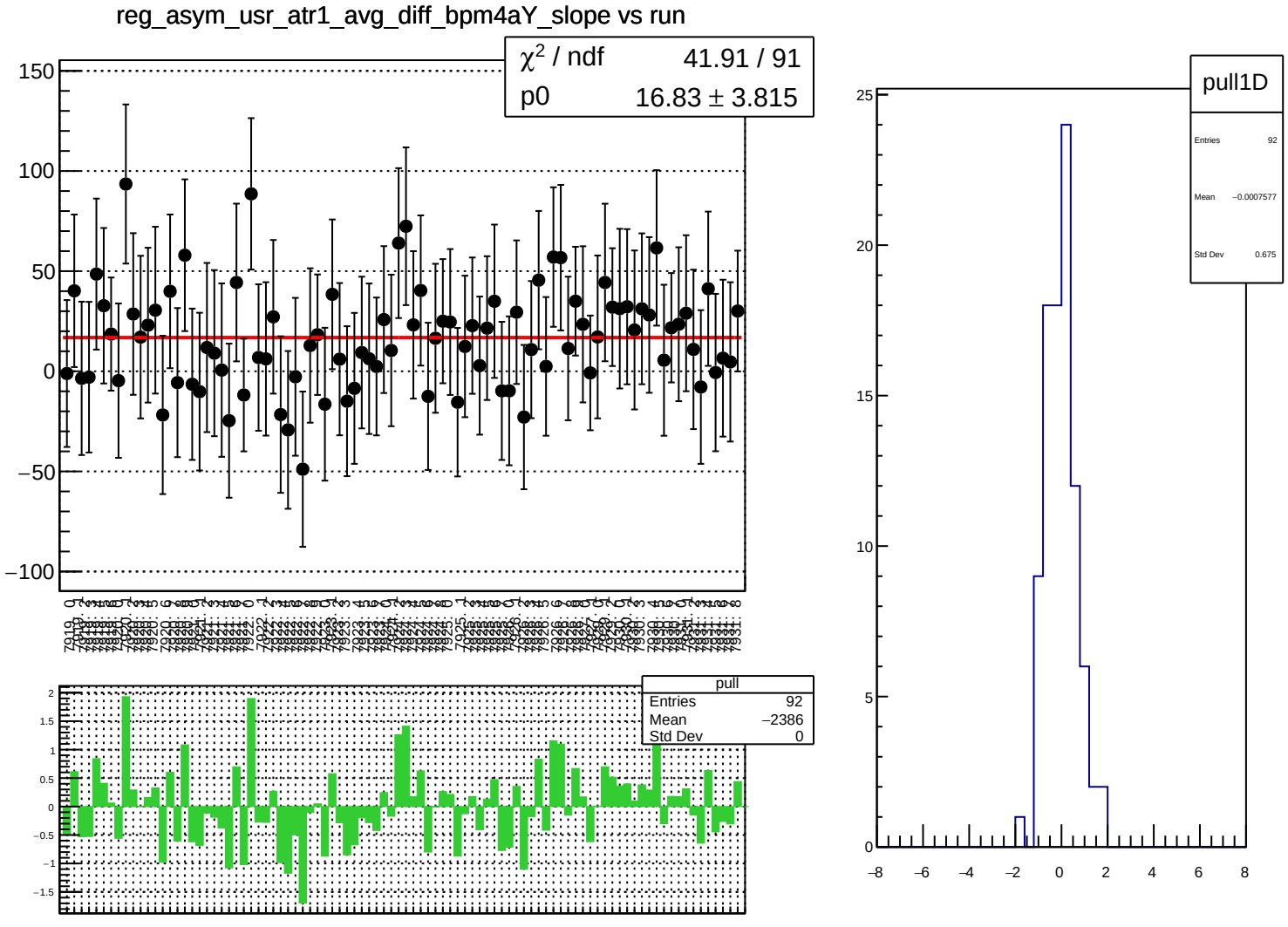

reg_asym_usl_atl2_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.852 / 91
p0 −94.31 ± 5.474
pull
Entries 92
Mean −190.9
Std Dev 0

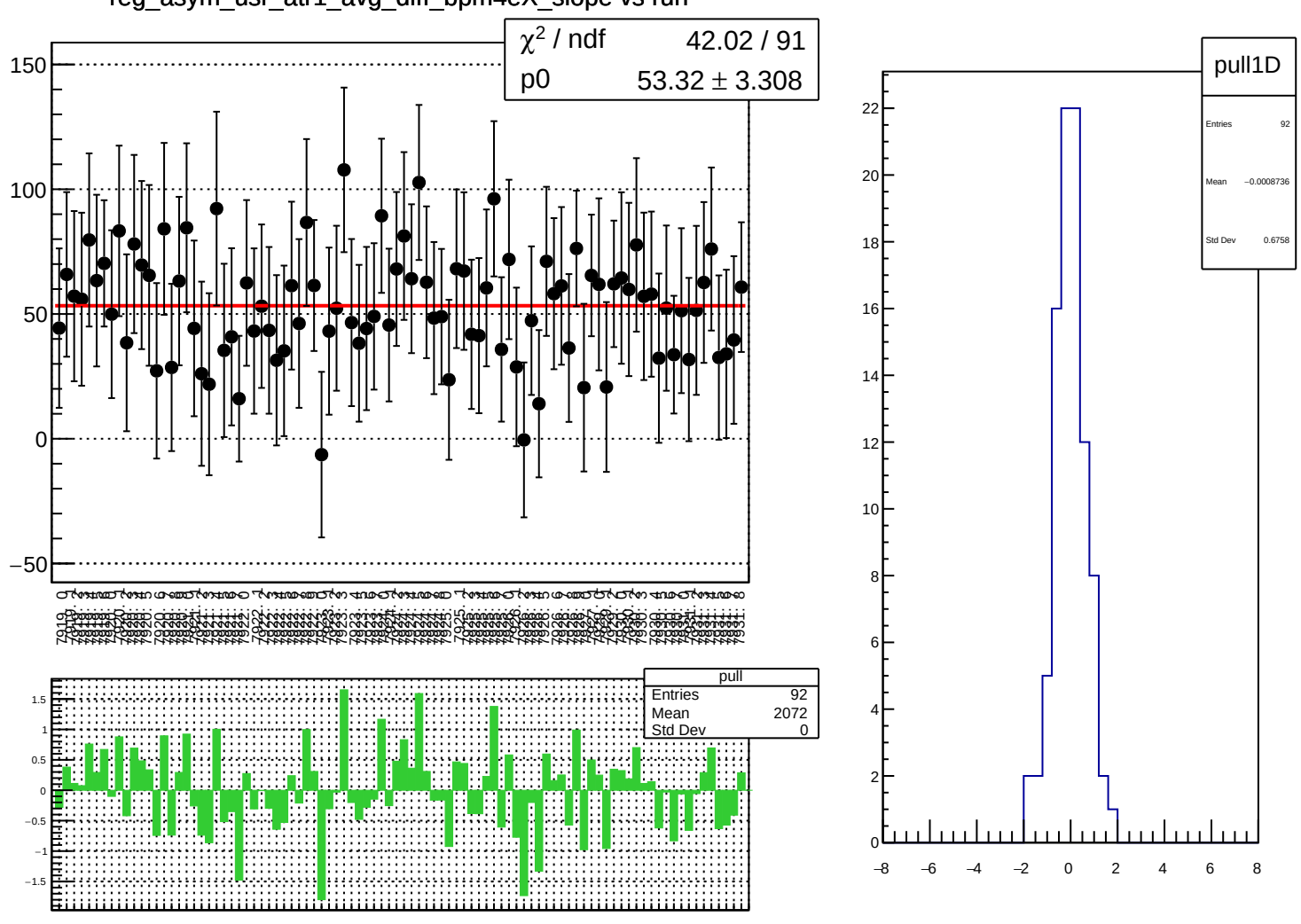

pull1D
Entries 92
Mean 0.003826
Std Dev 0.2296

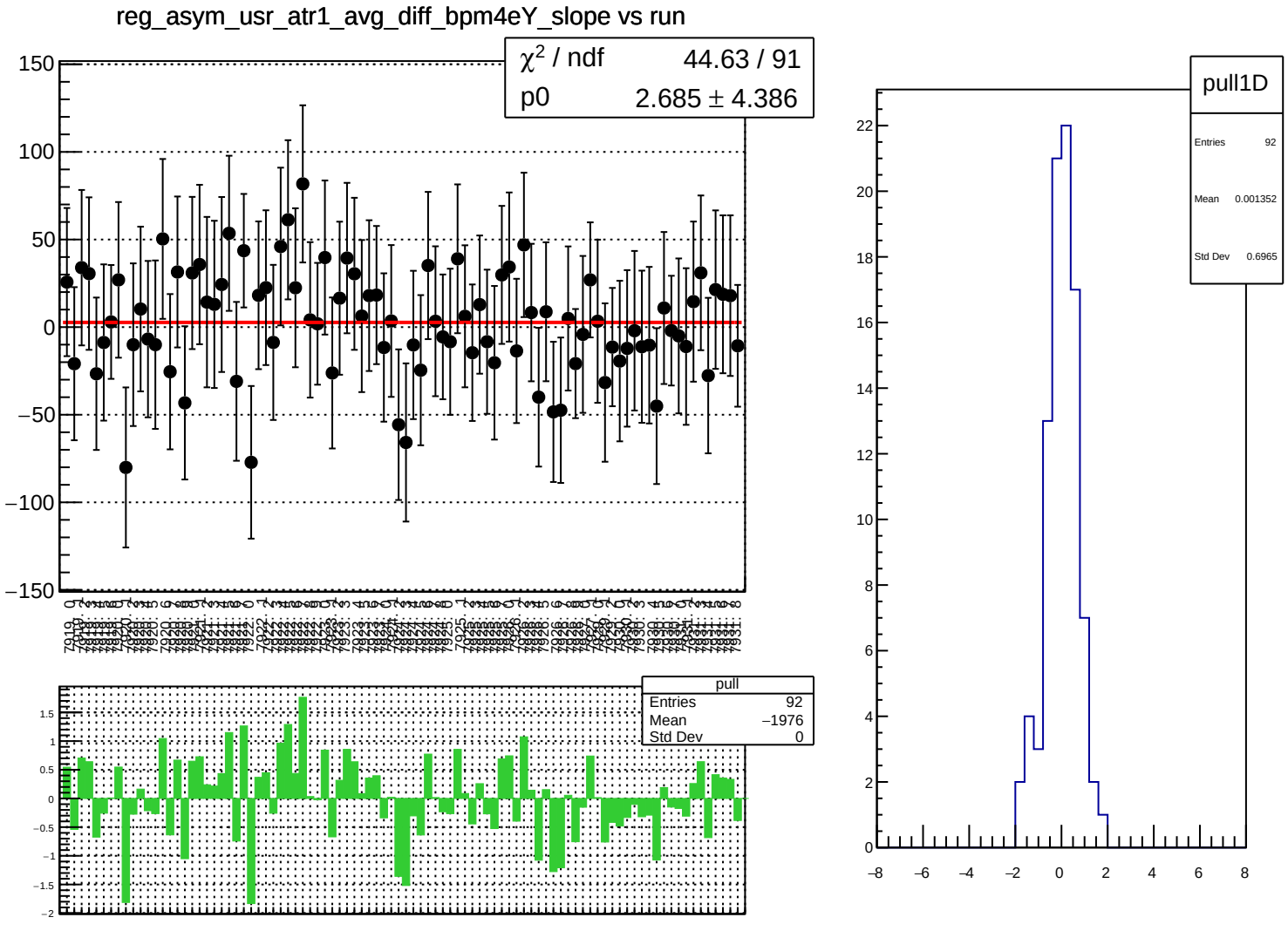

reg_asym_usl_atl2_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.483 / 91
p0 −5.62 ± 7.256
pull
Entries 92
Mean 1.842e+04
Std Dev 0
pull1D
Entries 92
Mean −4.399e−05
Std Dev 0.2207

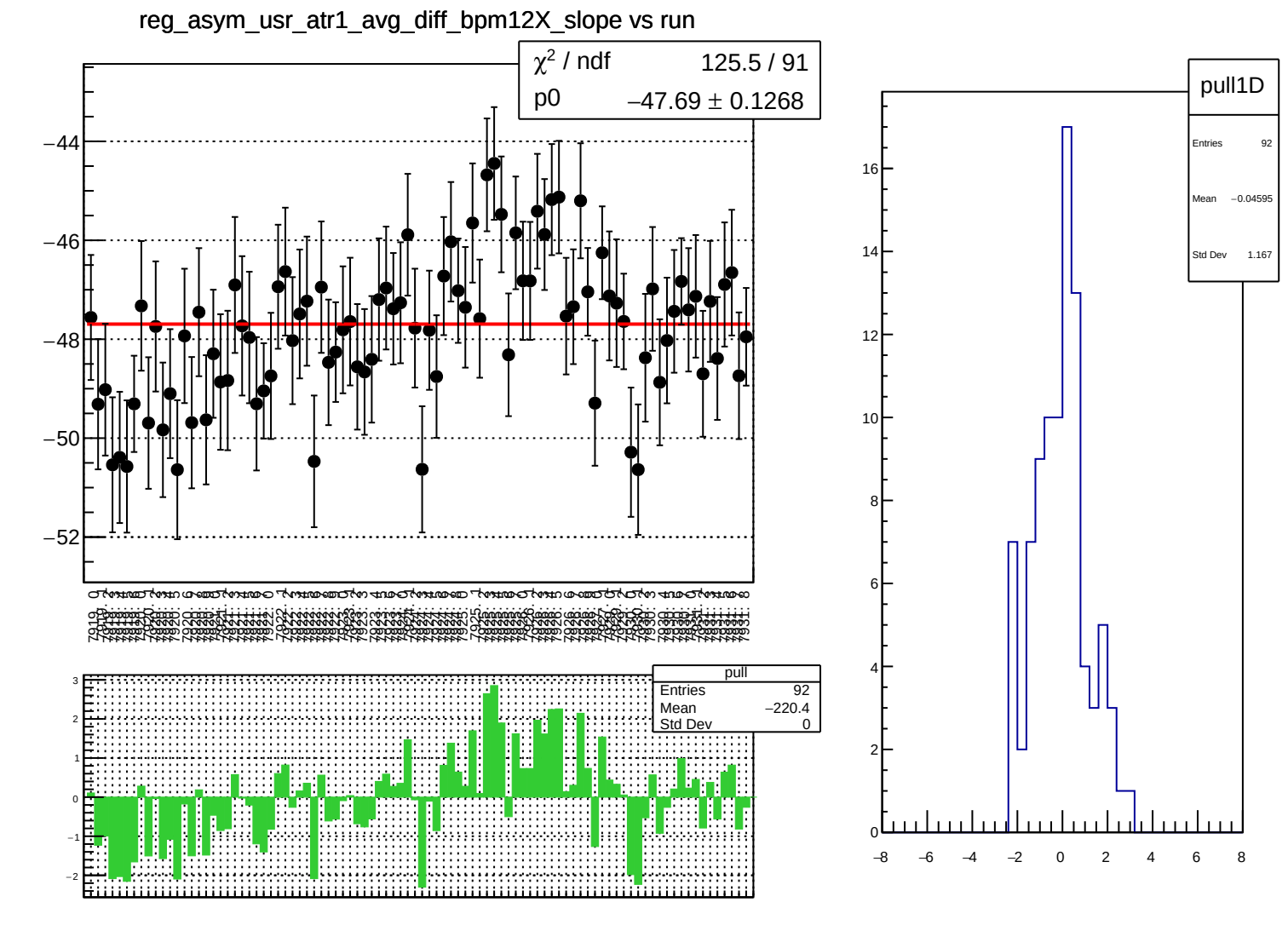

reg_asym_usl_atl2_dd_diff_bpm12X_slope vs run
χ² / ndf 5.044 / 91
p0 104.6 ± 0.2098
pull
Entries 92
Mean −431.3
Std Dev 0
pull1D
Entries 92
Mean −0.002169
Std Dev 0.2341

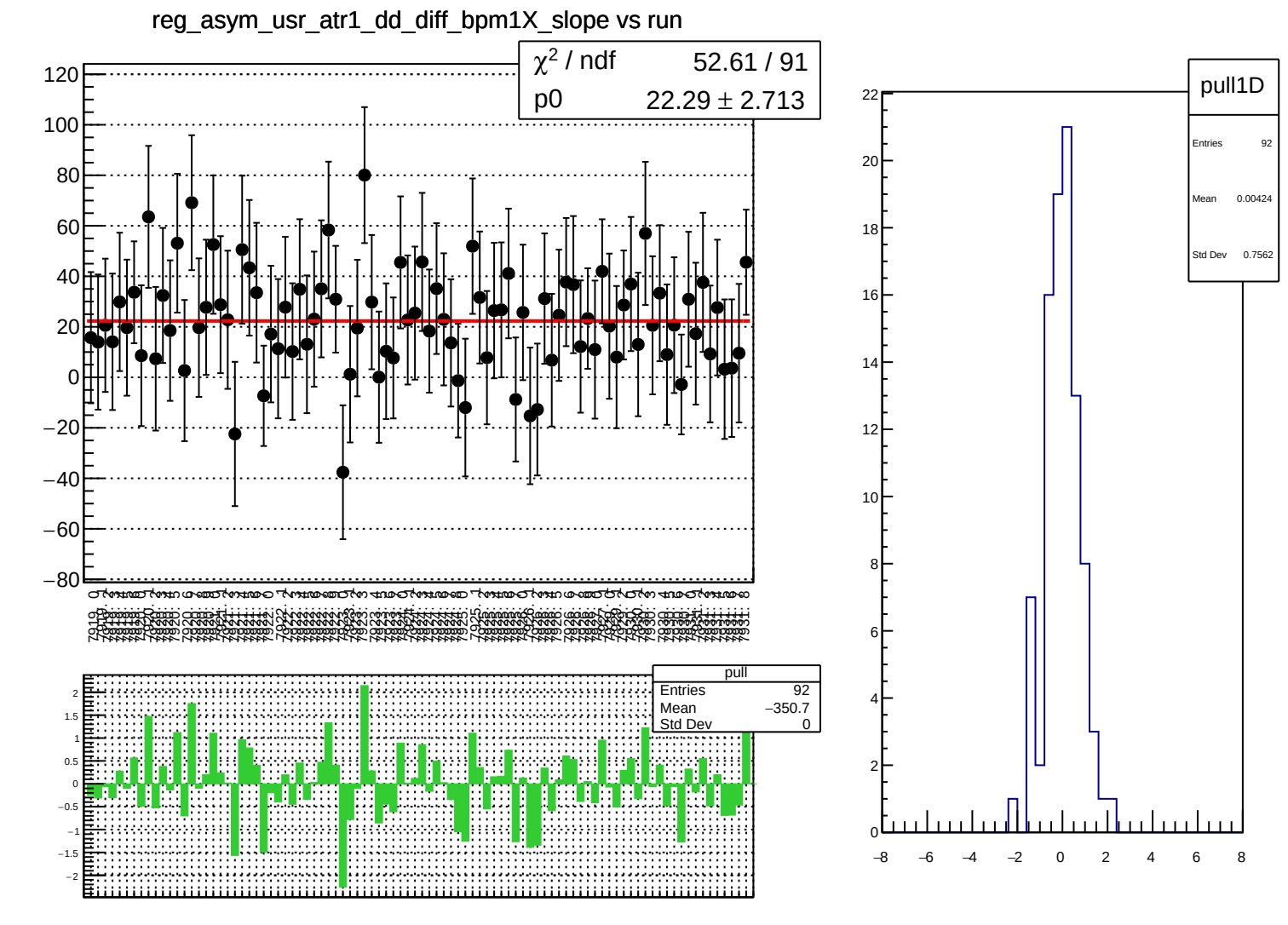

reg_asym_usr_atr1_avg_diff_bpm1X_slope vs run
χ² / ndf 41.67 / 91
p0 −54.29 ± 3.698
50
0
−50
−100
−150
pull
Entries 92
Mean 1028
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 92
Mean 0.00148
Std Dev 0.673
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

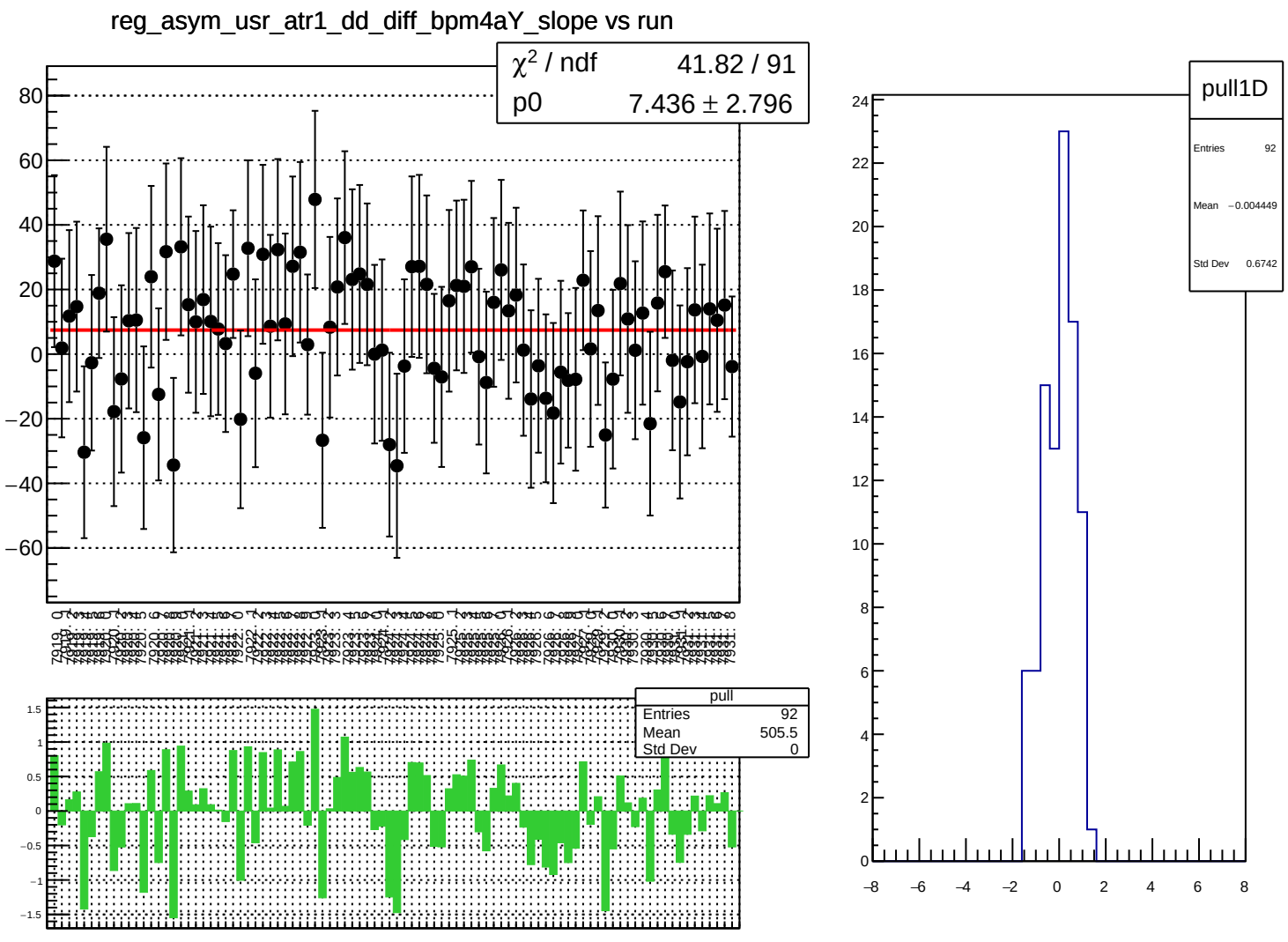

reg_asym_usr_atr1_avg_diff_bpm4aY_slope vs run
χ² / ndf 41.91 / 91
p0 16.83 ± 3.815
150
100
50
0
−50
−100
pull
Entries 92
Mean −2386
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 92
Mean −0.0007577
Std Dev 0.675
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

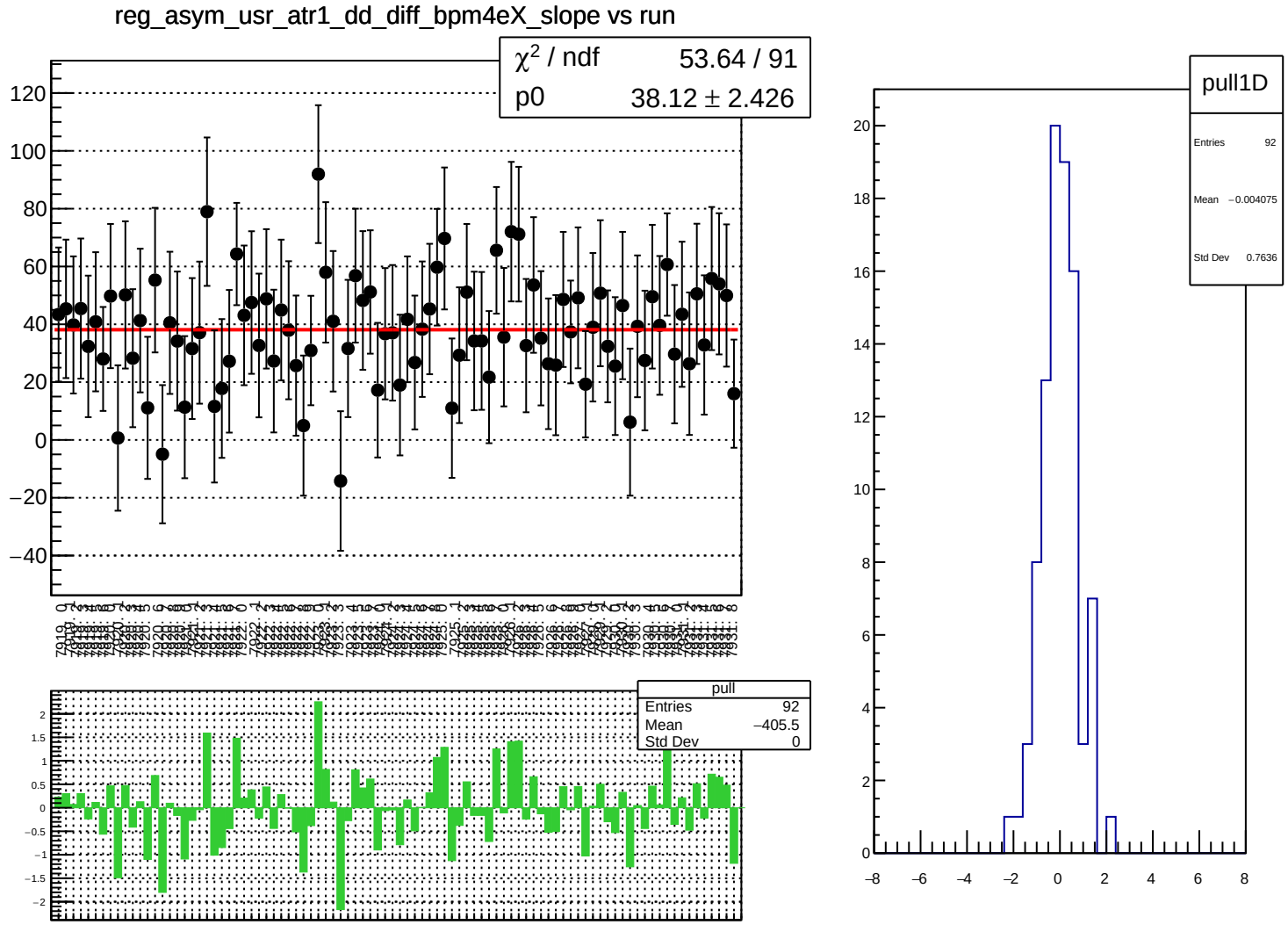

reg_asym_usr_atr1_avg_diff_bpm4eX_slope vs run
χ² / ndf 42.02 / 91
p0 53.32 ± 3.308
150
100
50
0
−50
pull
Entries 92
Mean 2072
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 92
Mean −0.0008736
Std Dev 0.6758
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

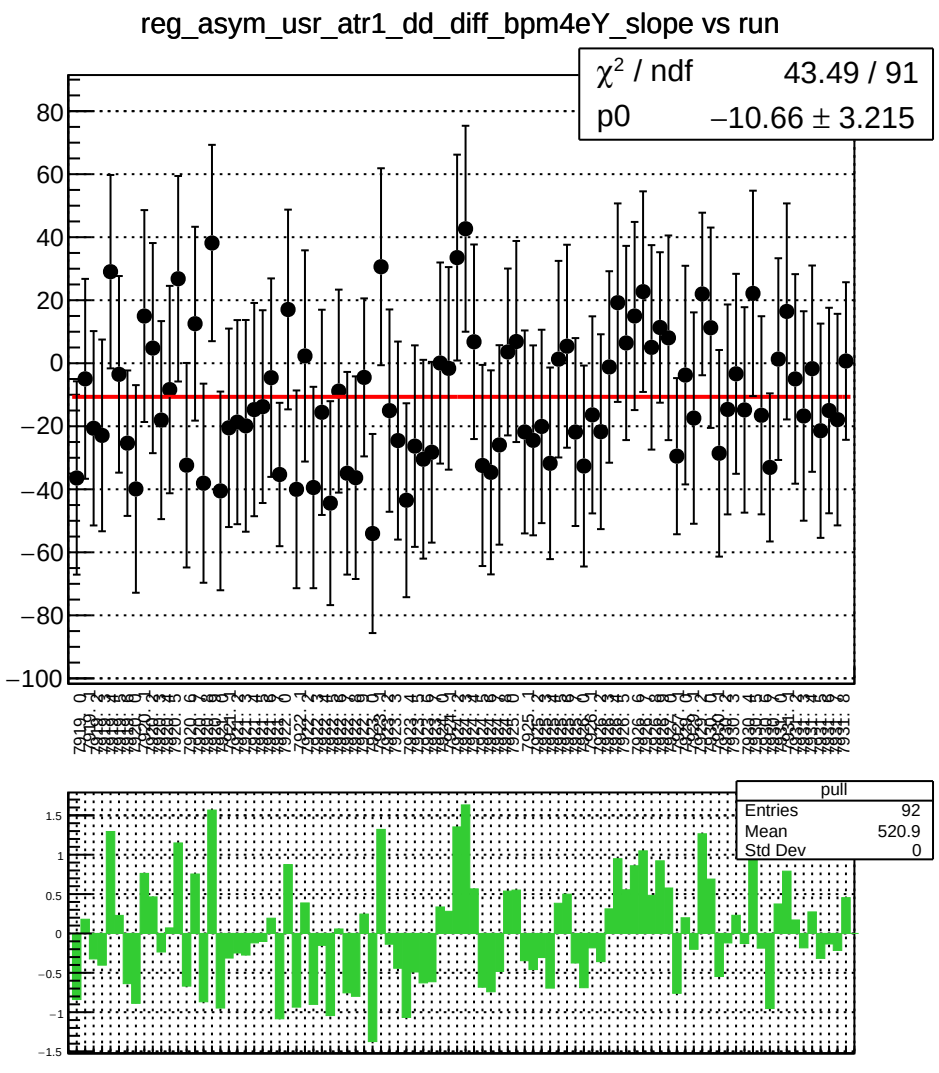

reg_asym_usr_atr1_avg_diff_bpm4eY_slope vs run
χ² / ndf 44.63 / 91
p0 2.685 ± 4.386
pull
Entries 92
Mean −1976
Std Dev 0
pull1D
Entries 92
Mean 0.001352
Std Dev 0.6965

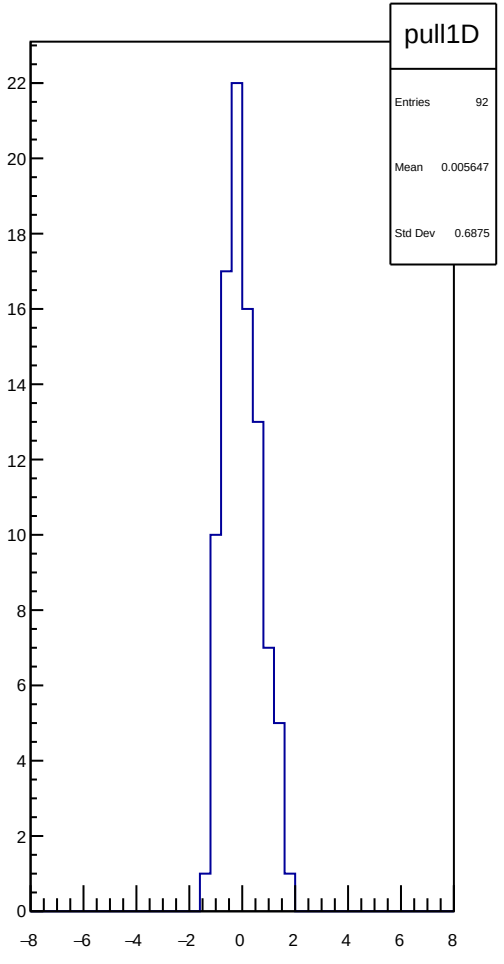

reg_asym_usr_atr1_avg_diff_bpm12X_slope vs run
χ² / ndf 125.5 / 91
p0 −47.69 ± 0.1268
−44
−46
−48
−50
−52
pull
Entries 92
Mean −220.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.04595
Std Dev 1.167
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

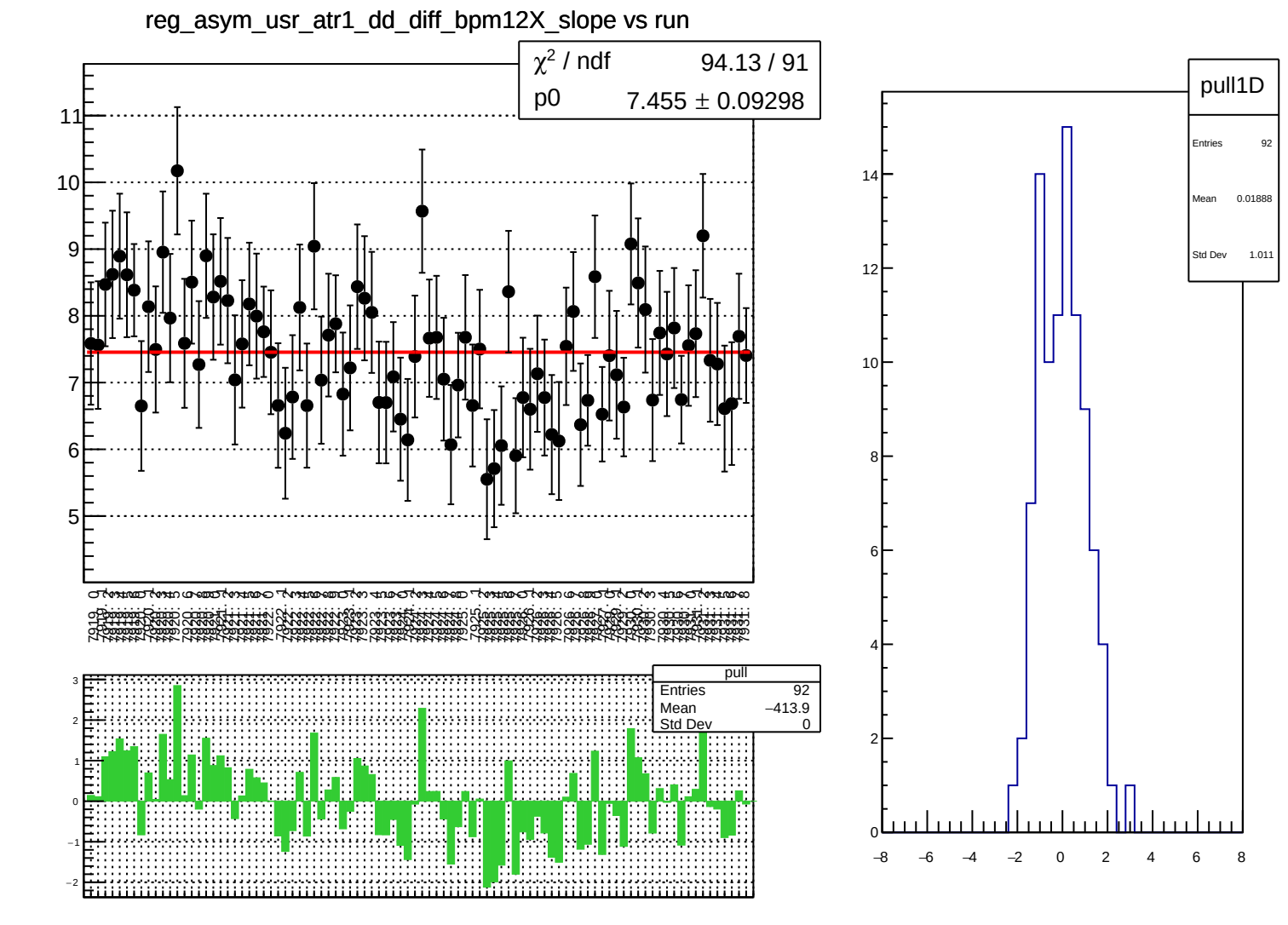

reg_asym_usr_atr1_dd_diff_bpm1X_slope vs run
χ² / ndf 52.61 / 91
p0 22.29 ± 2.713
pull
Entries 92
Mean −350.7
Std Dev 0
pull1D
Entries 92
Mean 0.00424
Std Dev 0.7562

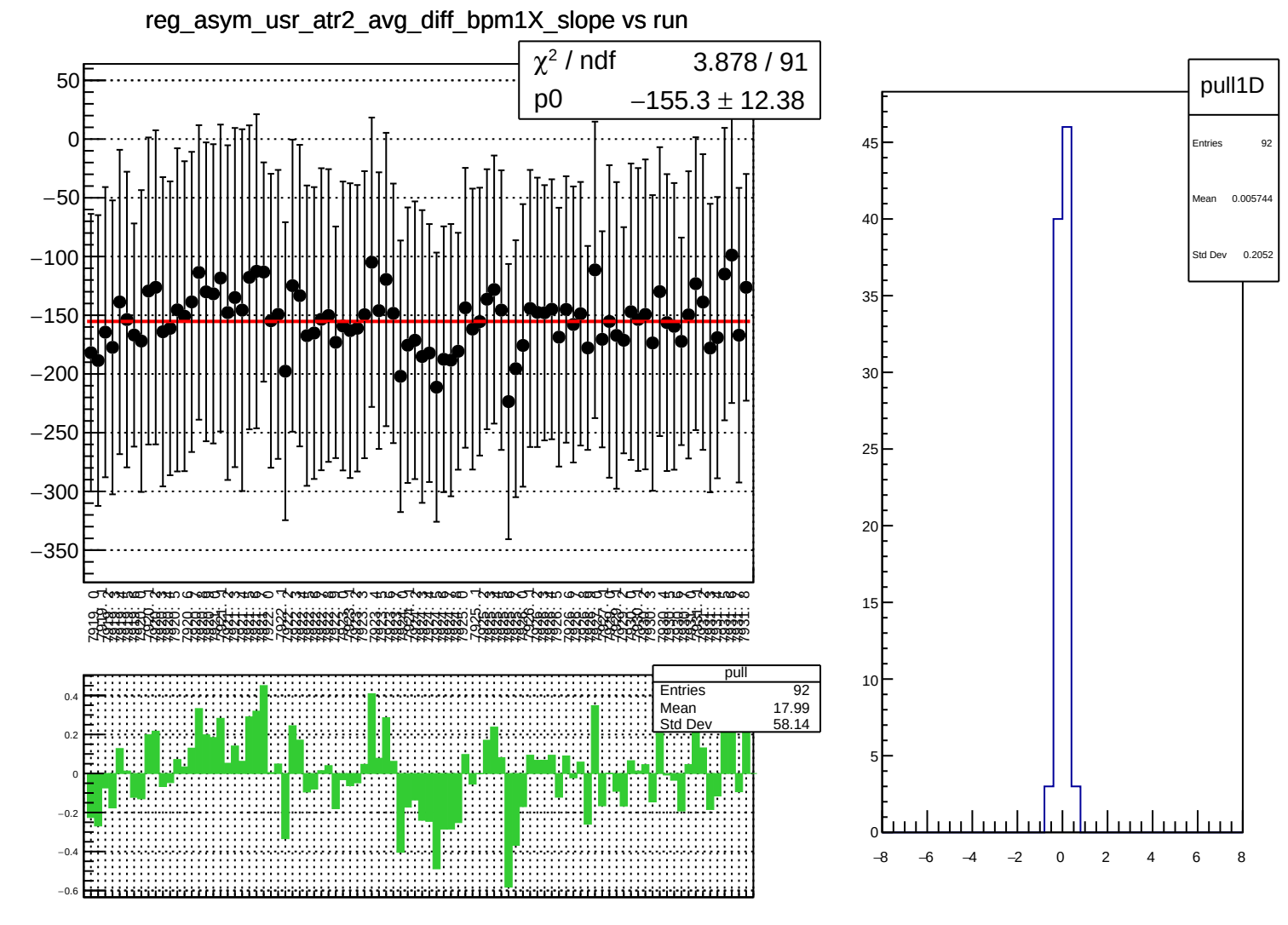

reg_asym_usr_atr1_dd_diff_bpm4aY_slope vs run
χ² / ndf 41.82 / 91
p0 7.436 ± 2.796
pull
Entries 92
Mean 505.5
Std Dev 0
pull1D
Entries 92
Mean −0.004449
Std Dev 0.6742

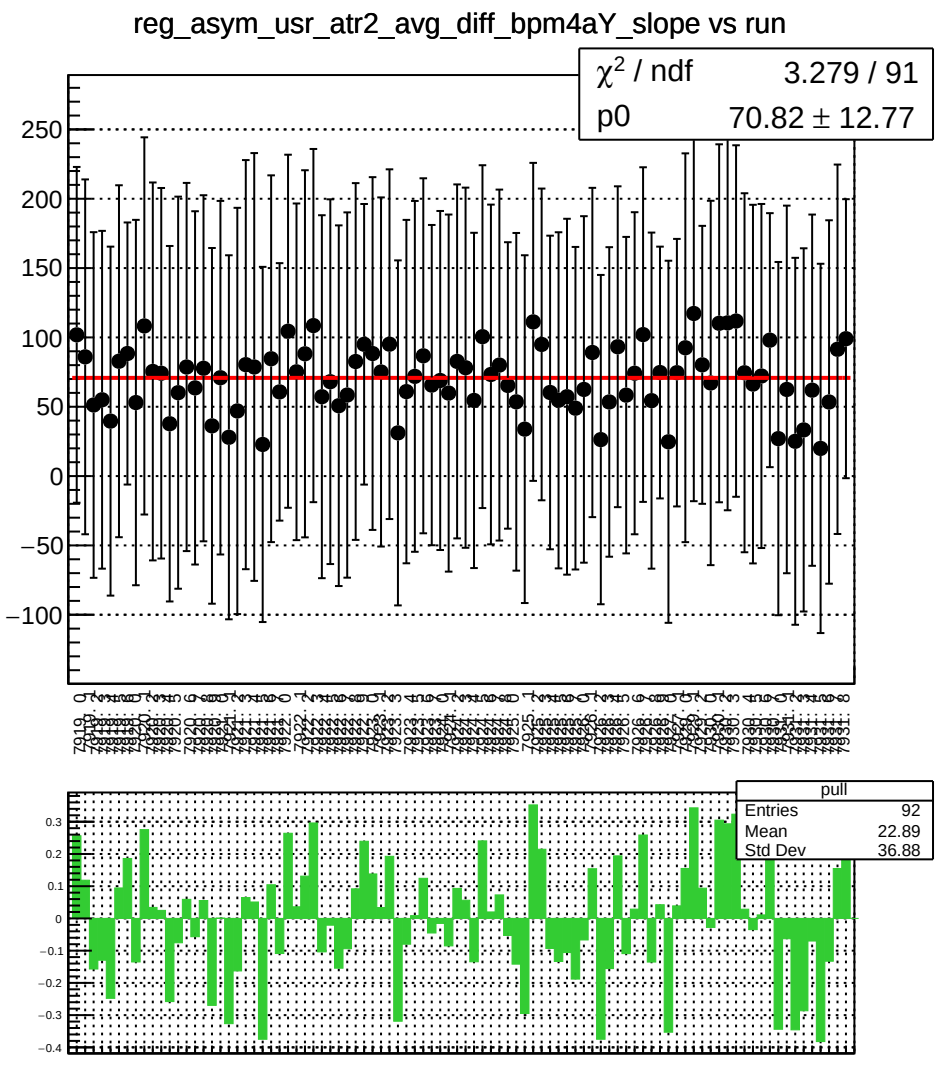

reg_asym_usr_atr1_dd_diff_bpm4eX_slope vs run
χ² / ndf 53.64 / 91
p0 38.12 ± 2.426
pull
Entries 92
Mean −405.5
Std Dev 0
pull1D
Entries 92
Mean −0.004075
Std Dev 0.7636

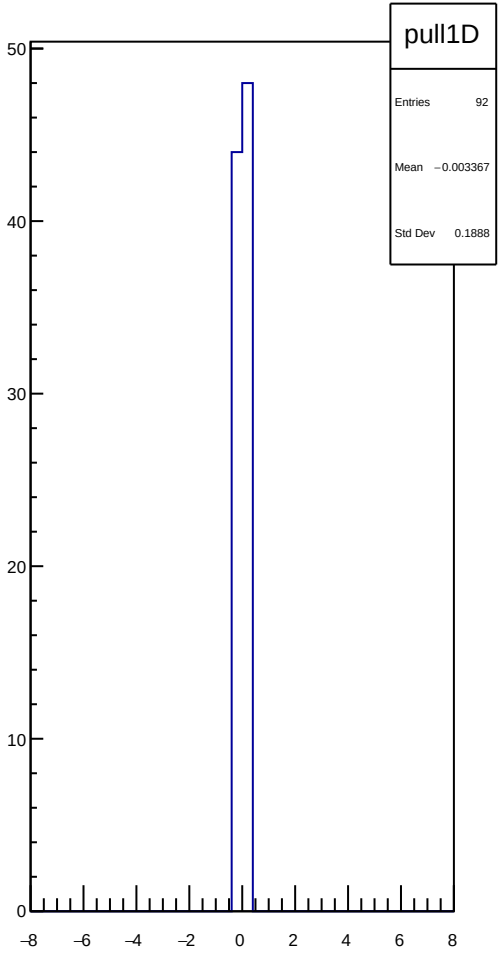

reg_asym_usr_atr1_dd_diff_bpm4eY_slope vs run
χ² / ndf 43.49 / 91
p0 −10.66 ± 3.215
pull
Entries 92
Mean 520.9
Std Dev 0

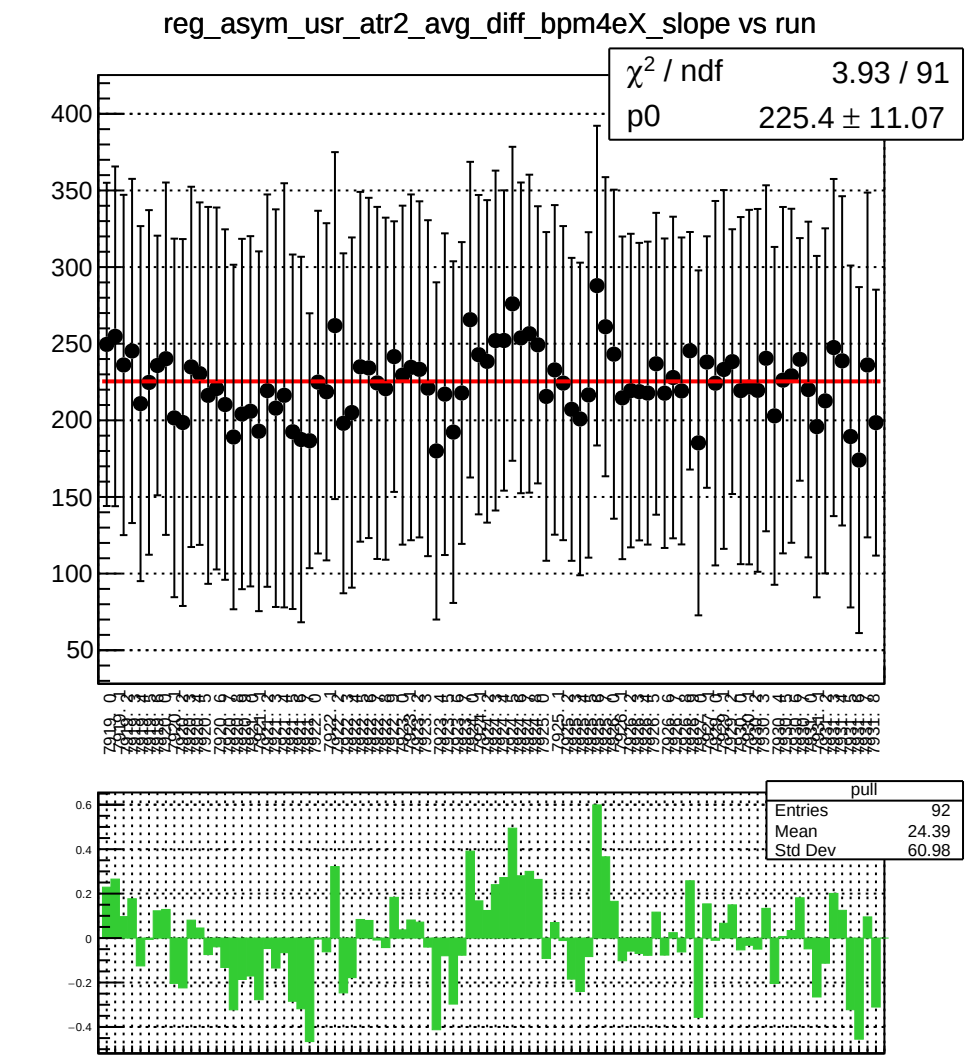

pull1D
Entries 92
Mean 0.005647
Std Dev 0.6875

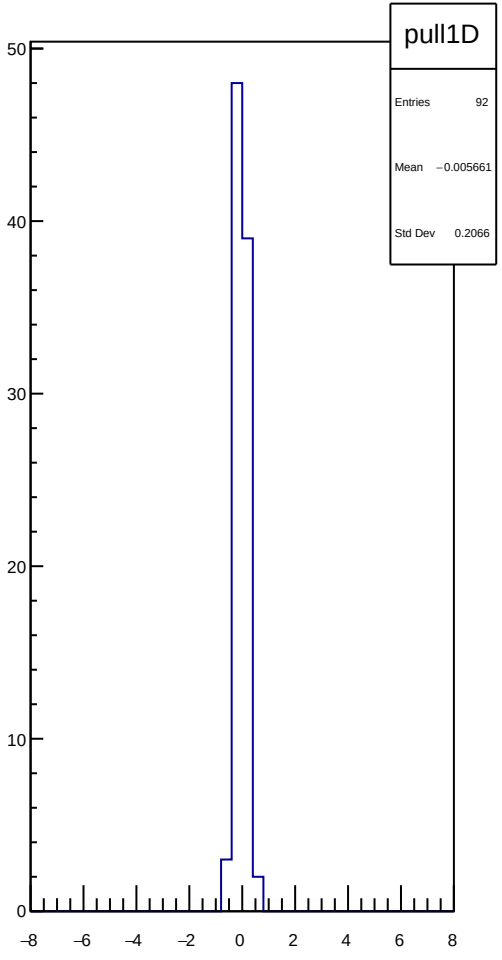

reg_asym_usr_atr1_dd_diff_bpm12X_slope vs run
χ² / ndf 94.13 / 91
p0 7.455 ± 0.09298
pull
Entries 92
Mean −413.9
Std Dev 0
pull1D
Entries 92
Mean 0.01888
Std Dev 1.011

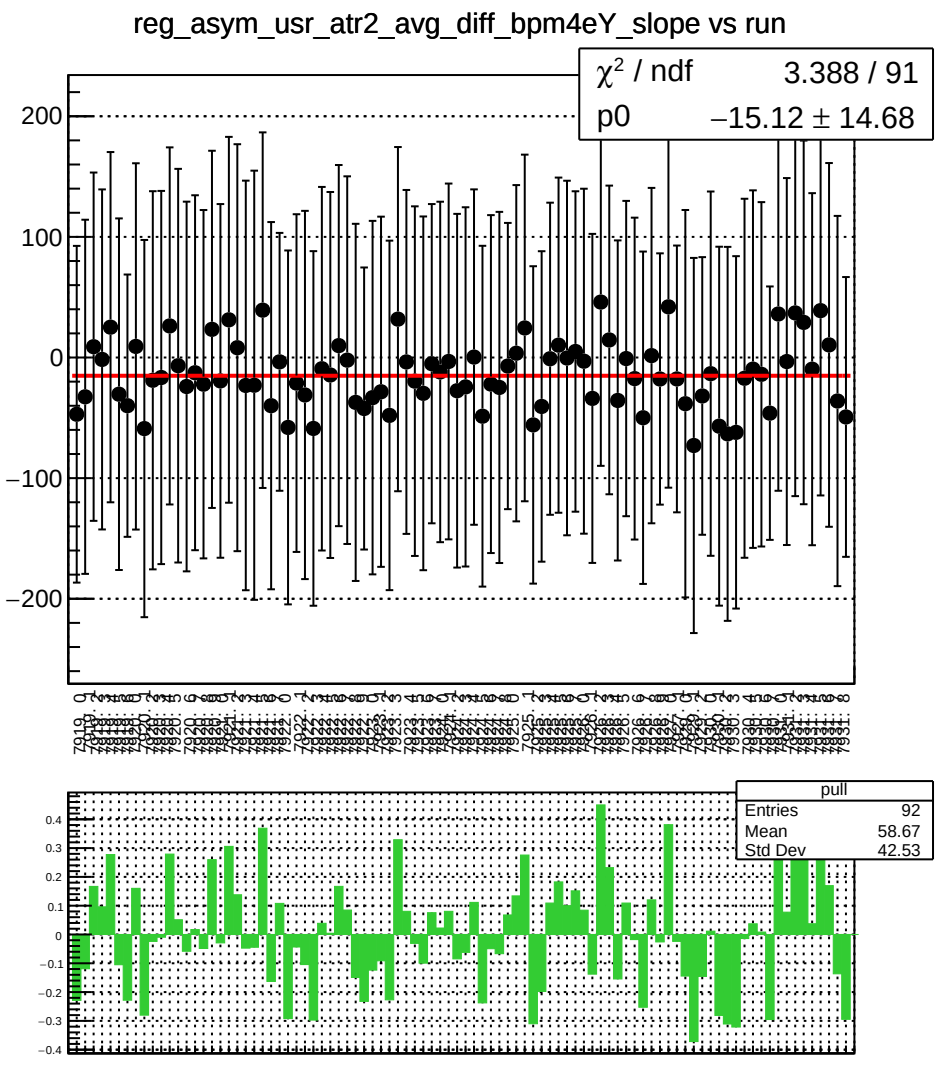

reg_asym_usr_atr2_avg_diff_bpm1X_slope vs run
χ² / ndf 3.878 / 91
p0 −155.3 ± 12.38
pull
Entries 92
Mean 17.99
Std Dev 58.14
pull1D
Entries 92
Mean 0.005744
Std Dev 0.2052

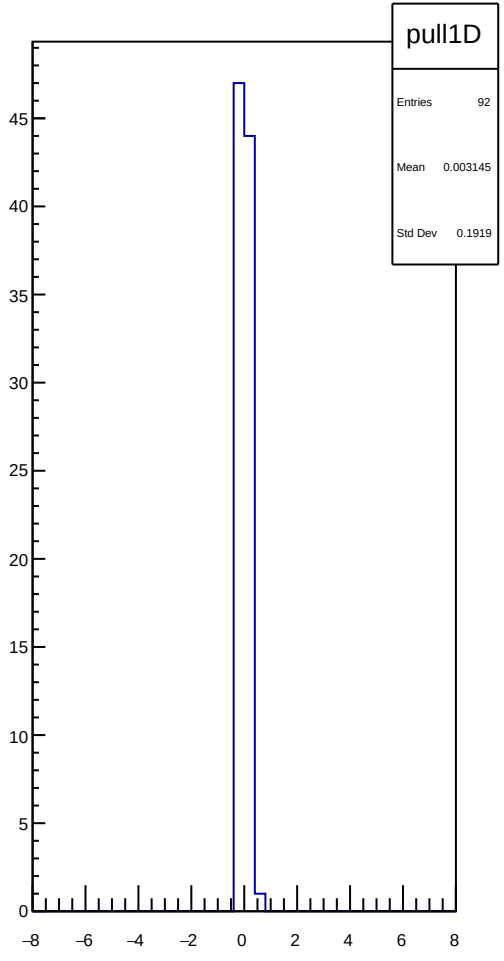

reg_asym_usr_atr2_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.279 / 91
p0 70.82 ± 12.77
pull
Entries 92
Mean 22.89
Std Dev 36.88

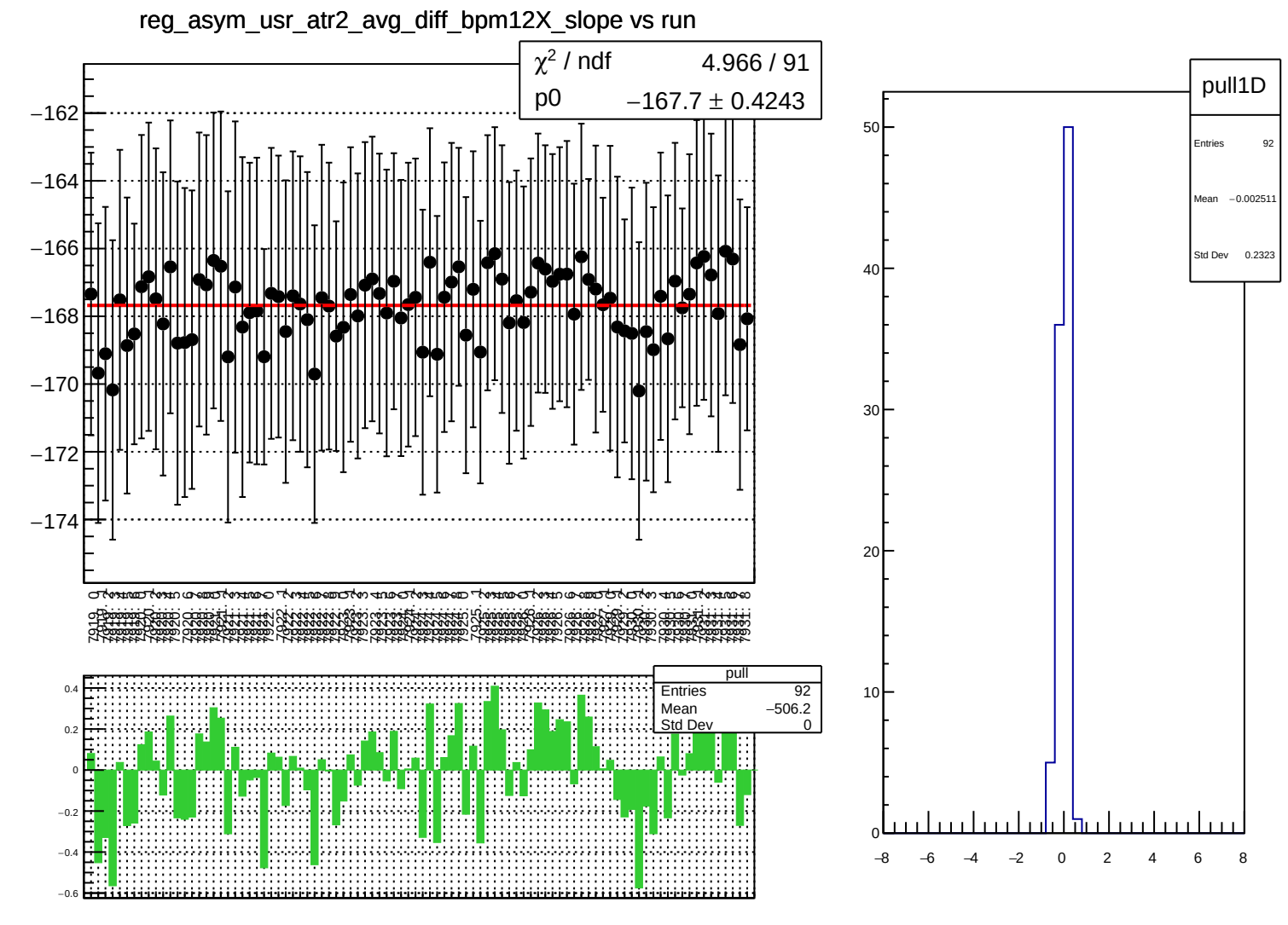

pull1D
Entries 92
Mean −0.003367
Std Dev 0.1888

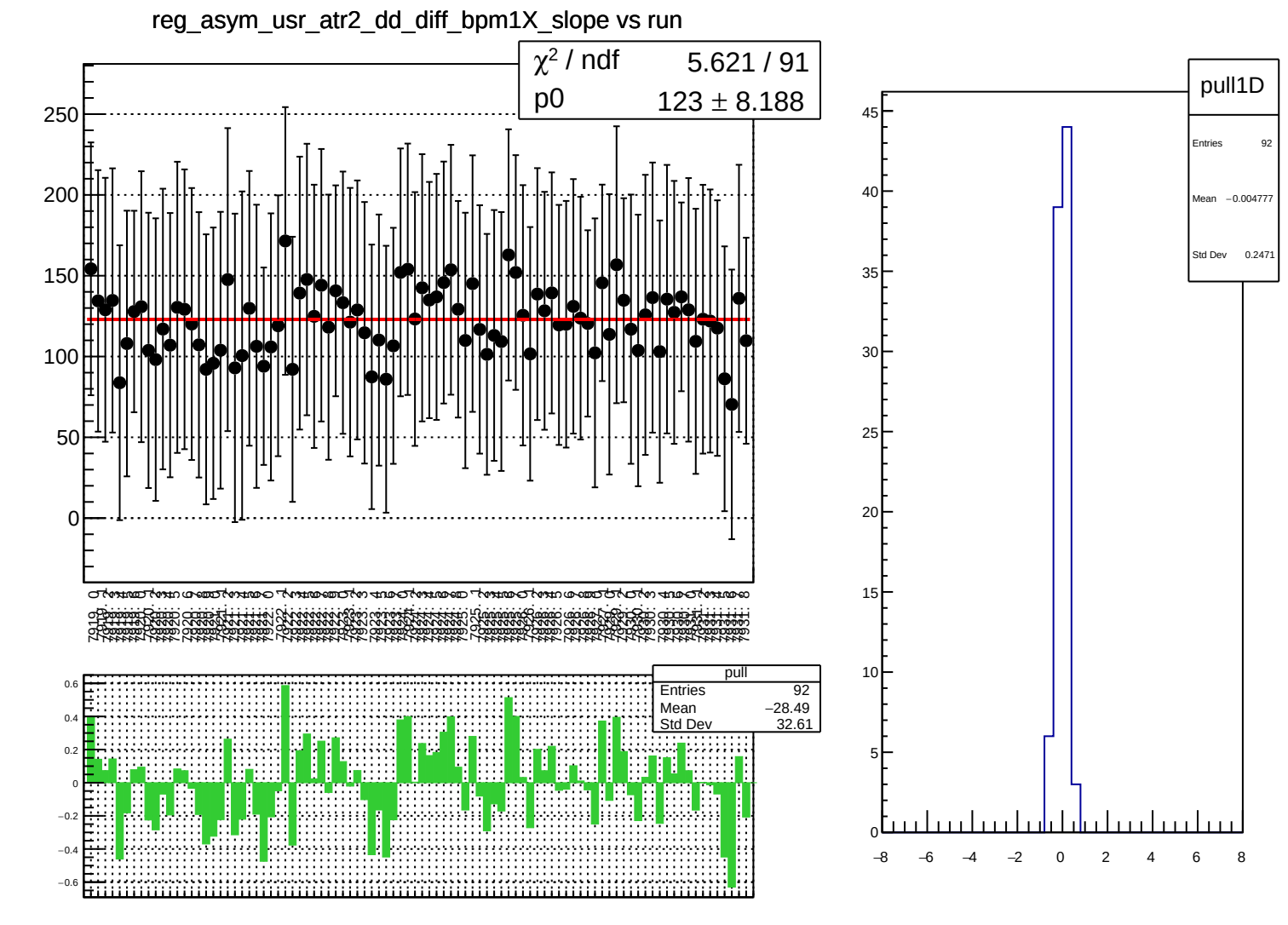

reg_asym_usr_atr2_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.93 / 91
p0 225.4 ± 11.07
pull
Entries 92
Mean 24.39
Std Dev 60.98

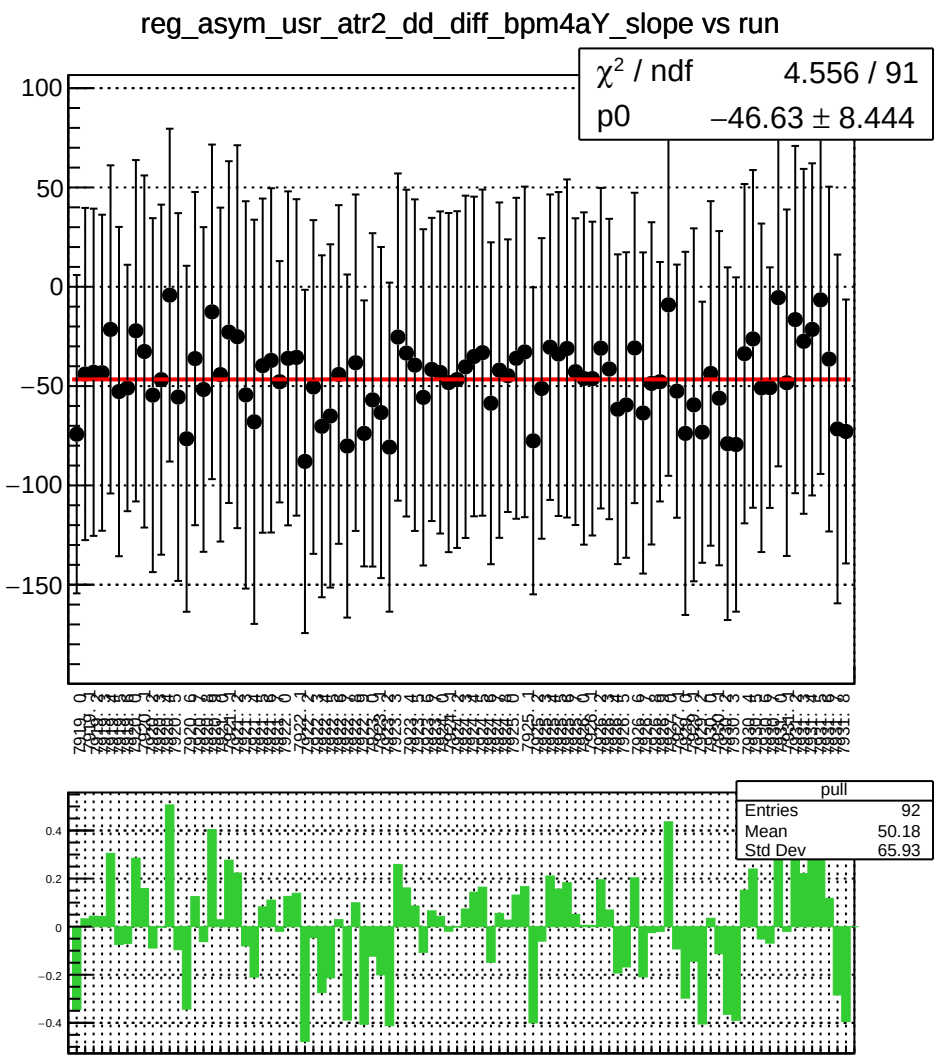

pull1D
Entries 92
Mean −0.005661
Std Dev 0.2066

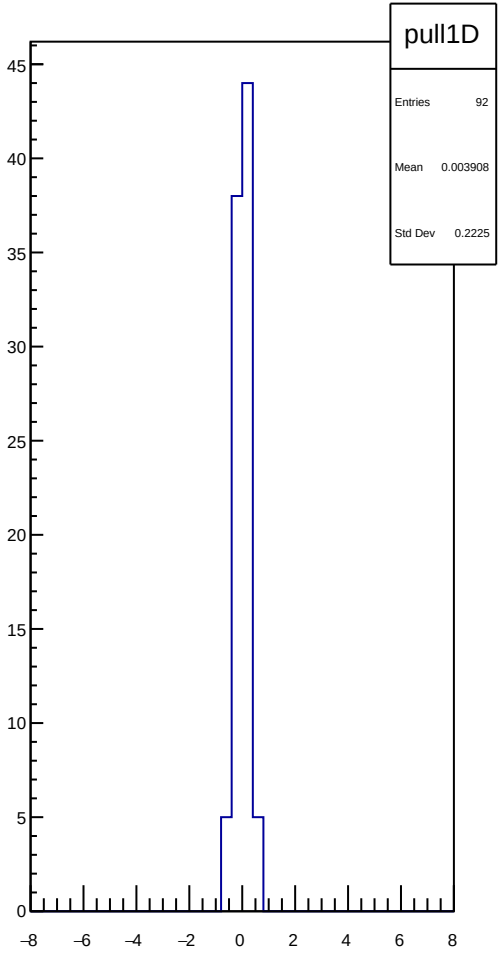

reg_asym_usr_atr2_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.388 / 91
p0 −15.12 ± 14.68
200
100
0
−100
−200
pull
Entries 92
Mean 58.67
Std Dev 42.53
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

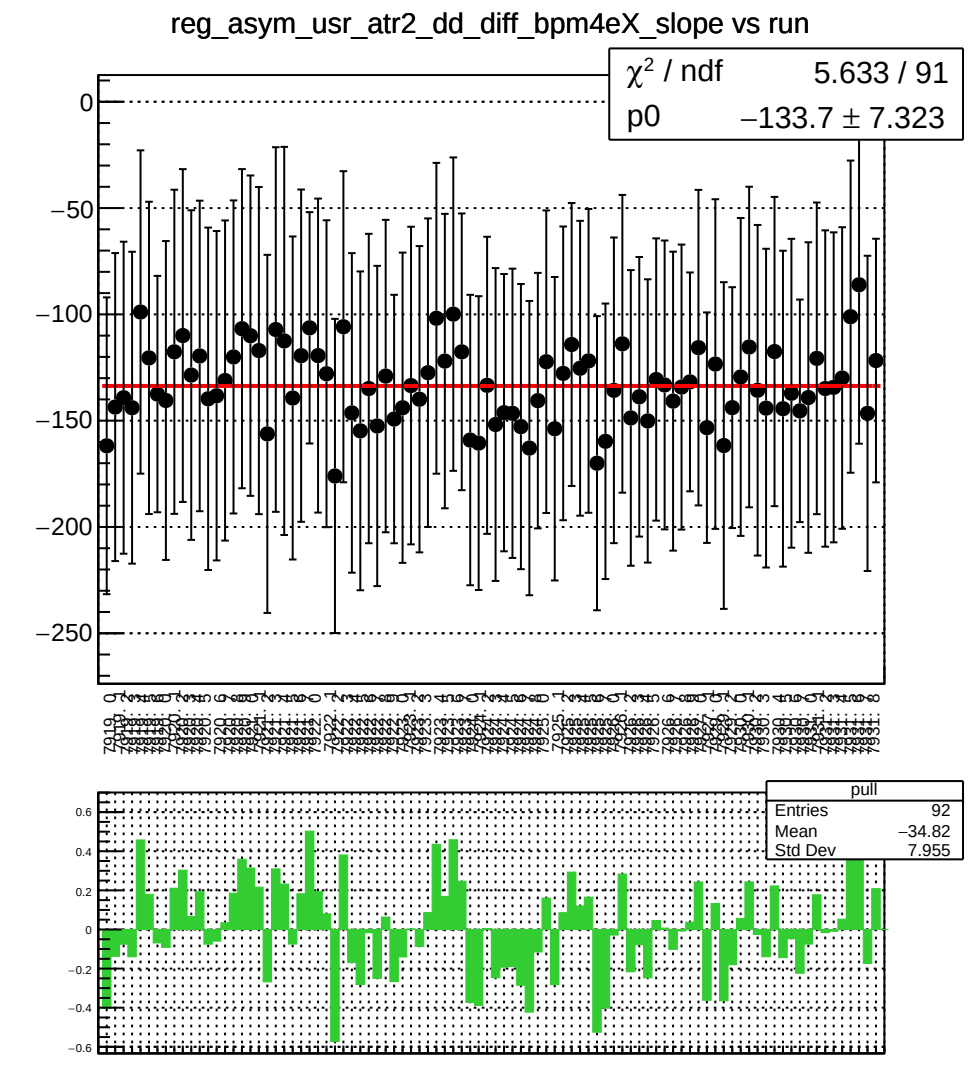

pull1D
Entries 92
Mean 0.003145
Std Dev 0.1919
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

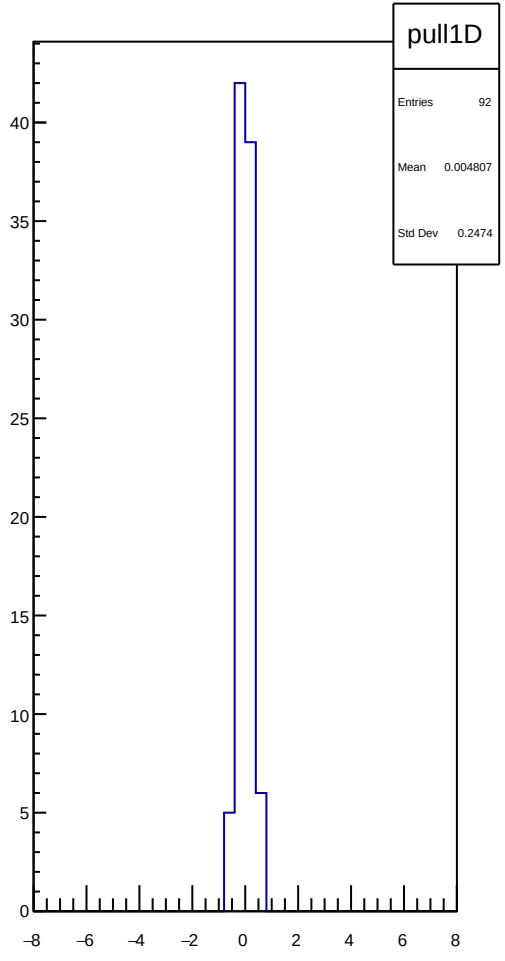

reg_asym_usr_atr2_avg_diff_bpm12X_slope vs run
χ² / ndf 4.966 / 91
p0 −167.7 ± 0.4243
pull
Entries 92
Mean −506.2
Std Dev 0
pull1D
Entries 92
Mean −0.002511
Std Dev 0.2323

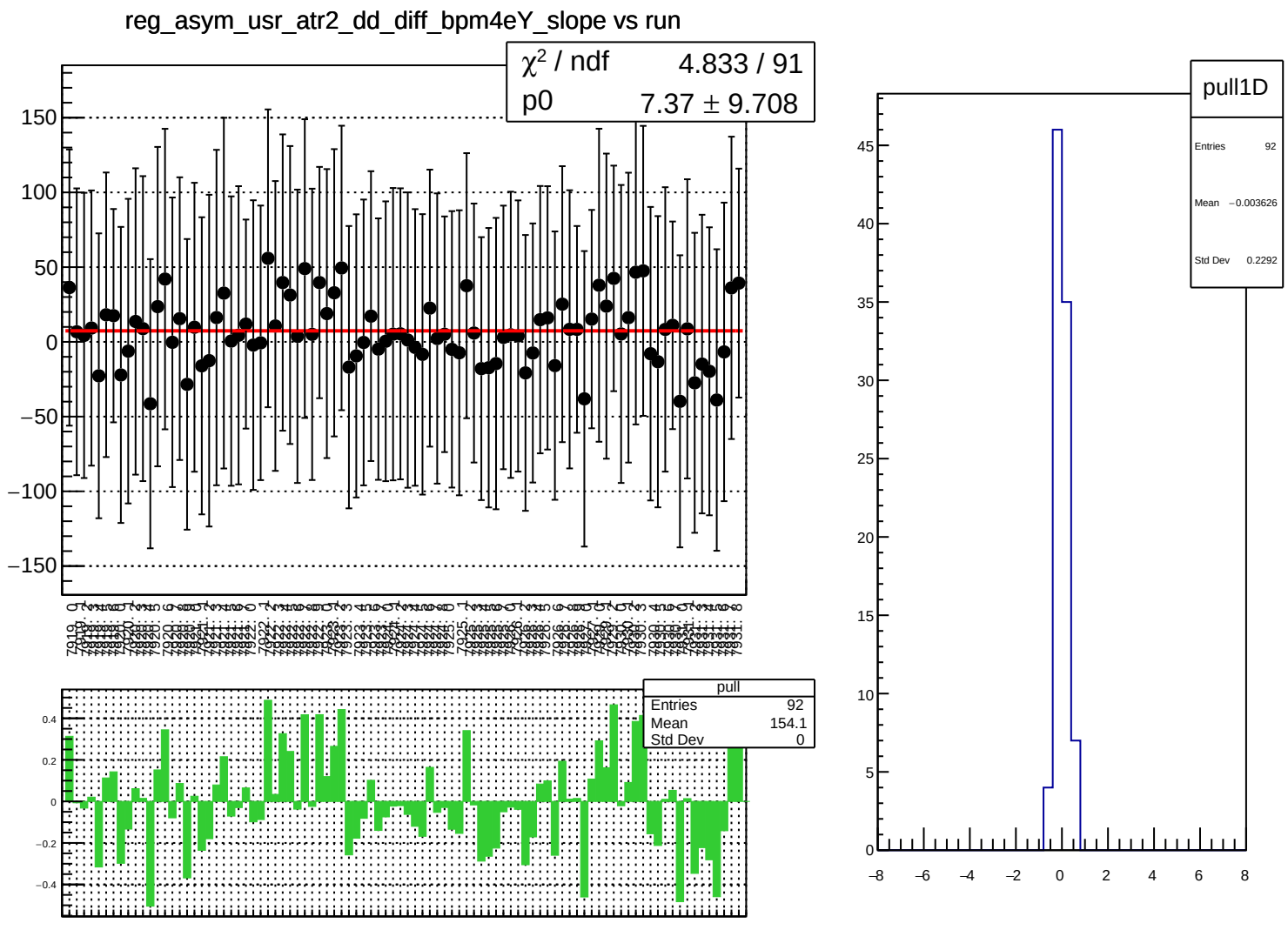

reg_asym_usr_atr2_dd_diff_bpm1X_slope vs run
χ² / ndf 5.621 / 91
p0 123 ± 8.188
pull
Entries 92
Mean −28.49
Std Dev 32.61
pull1D
Entries 92
Mean −0.004777
Std Dev 0.2471

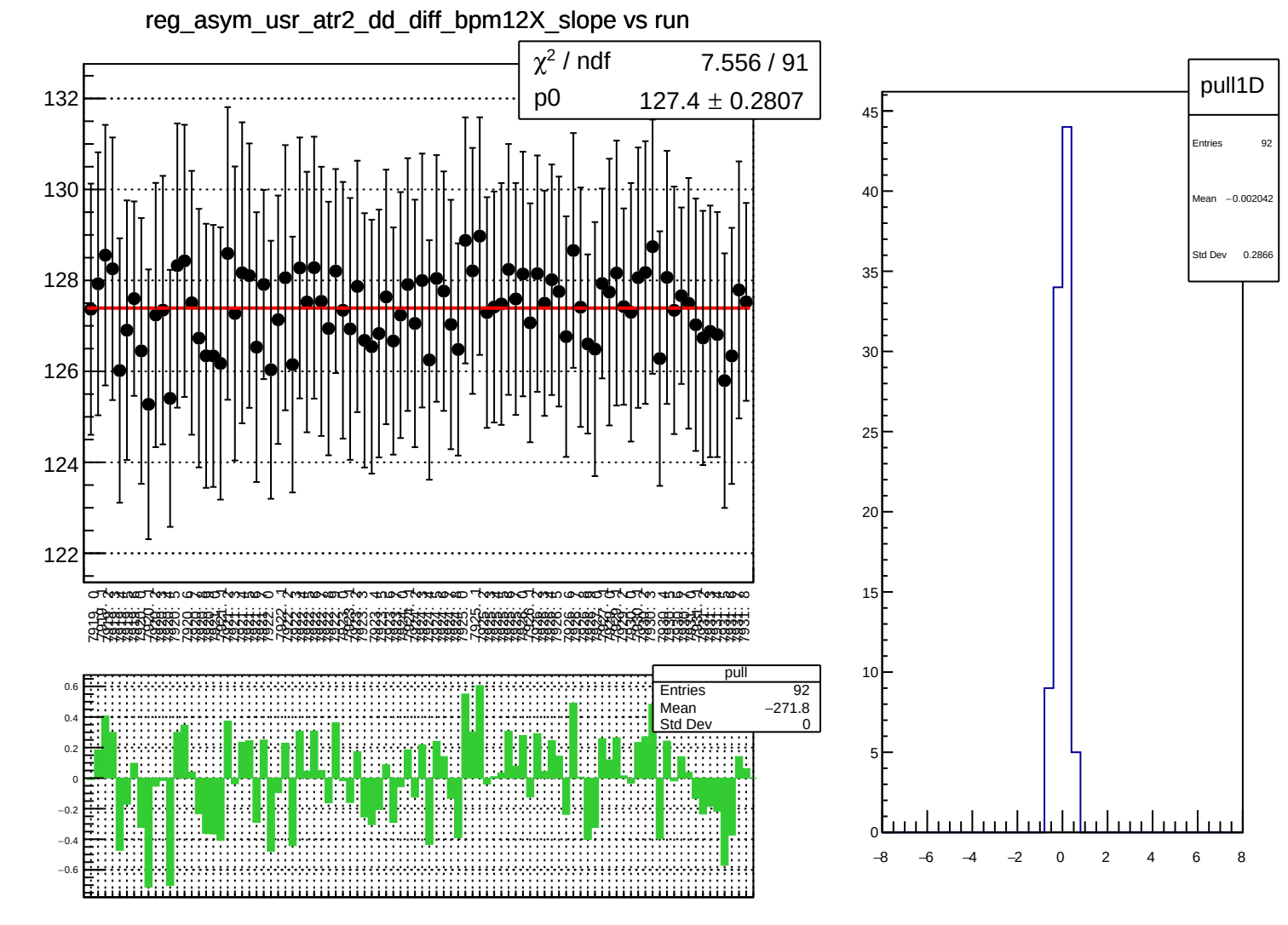

reg_asym_usr_atr2_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.556 / 91
p0 −46.63 ± 8.444
pull
Entries 92
Mean 50.18
Std Dev 65.93

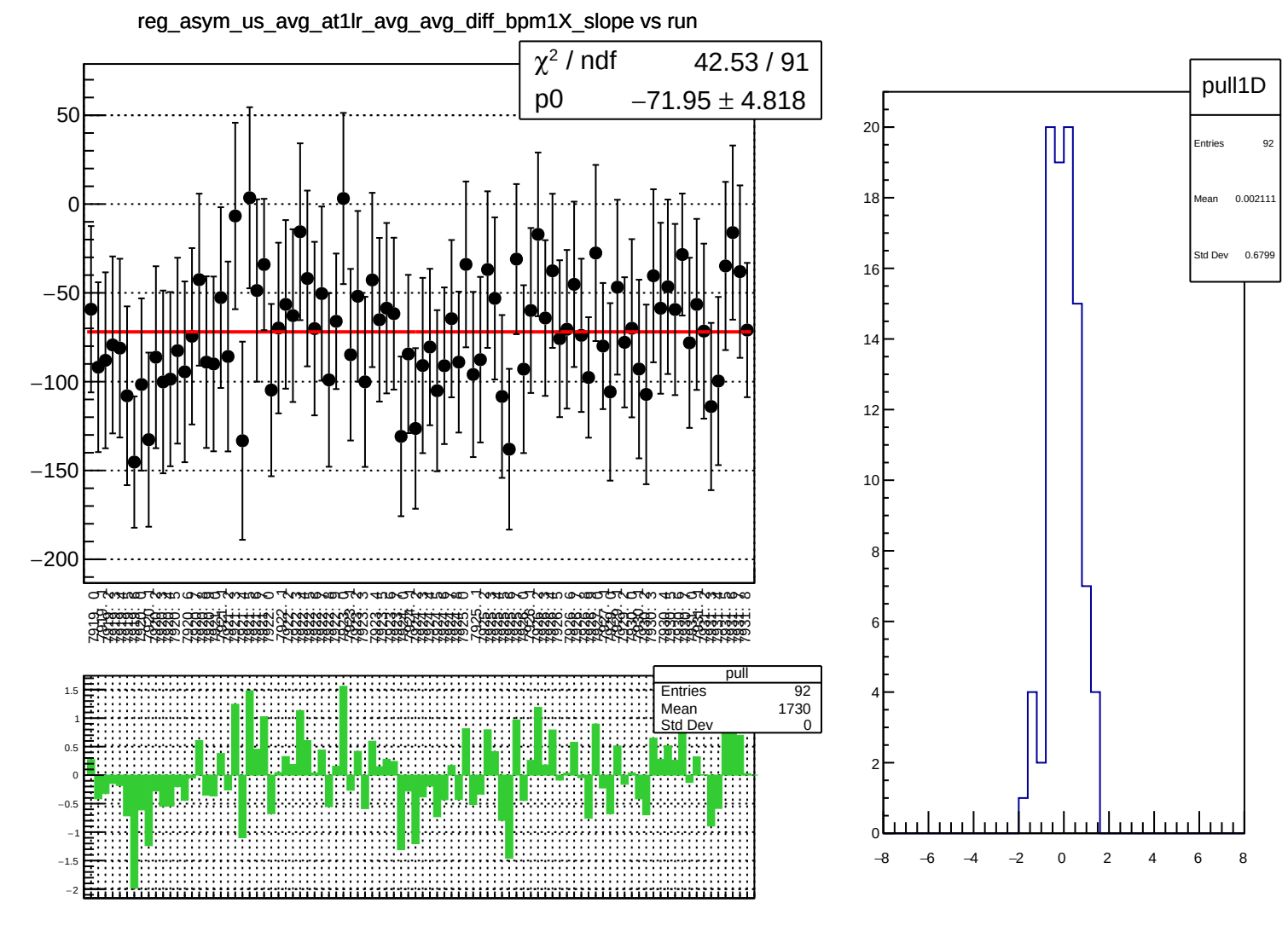

pull1D
Entries 92
Mean 0.003908
Std Dev 0.2225

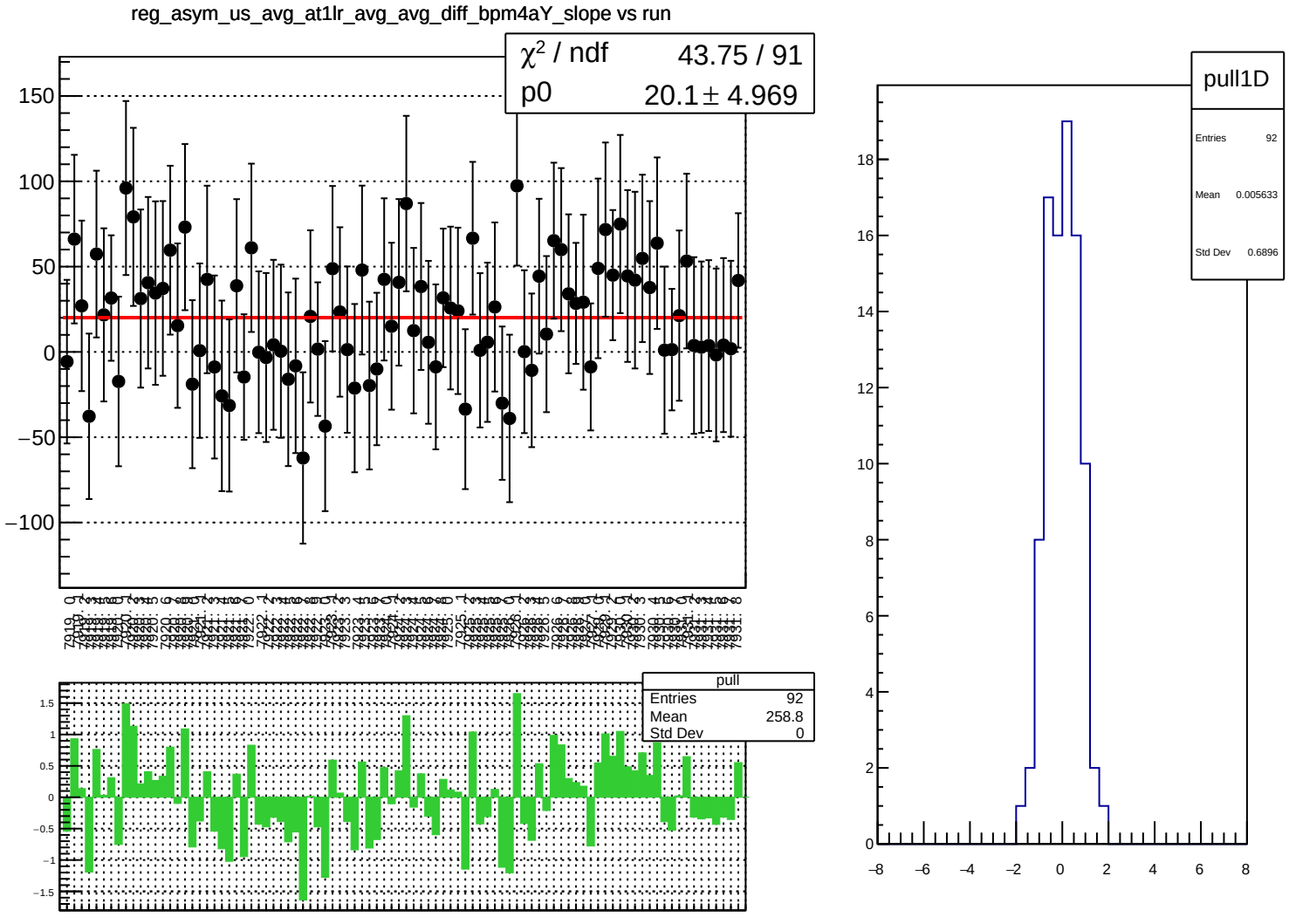

reg_asym_usr_atr2_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.633 / 91
p0 −133.7 ± 7.323
pull
Entries 92
Mean −34.82
Std Dev 7.955

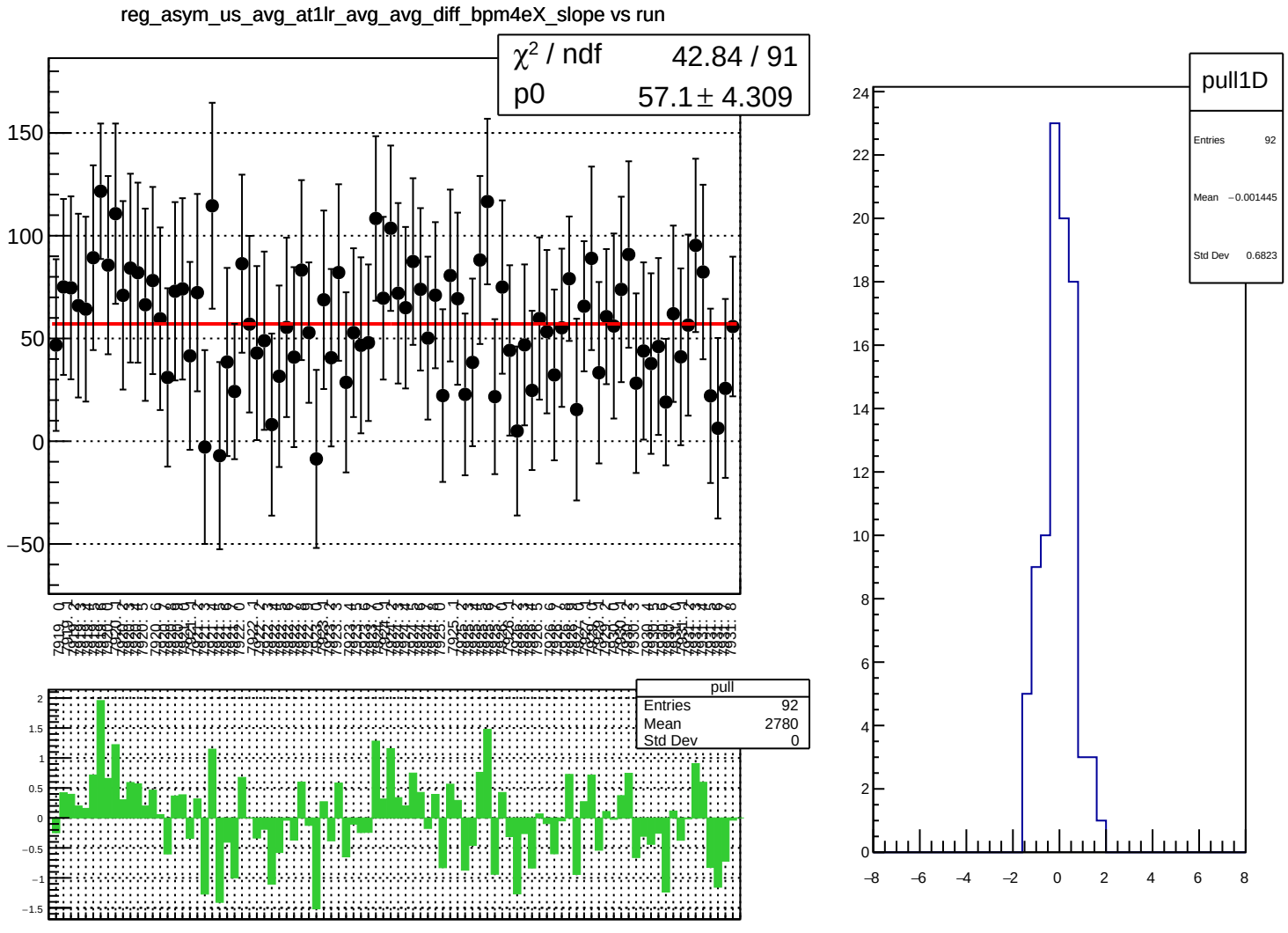

pull1D
Entries 92
Mean 0.004807
Std Dev 0.2474

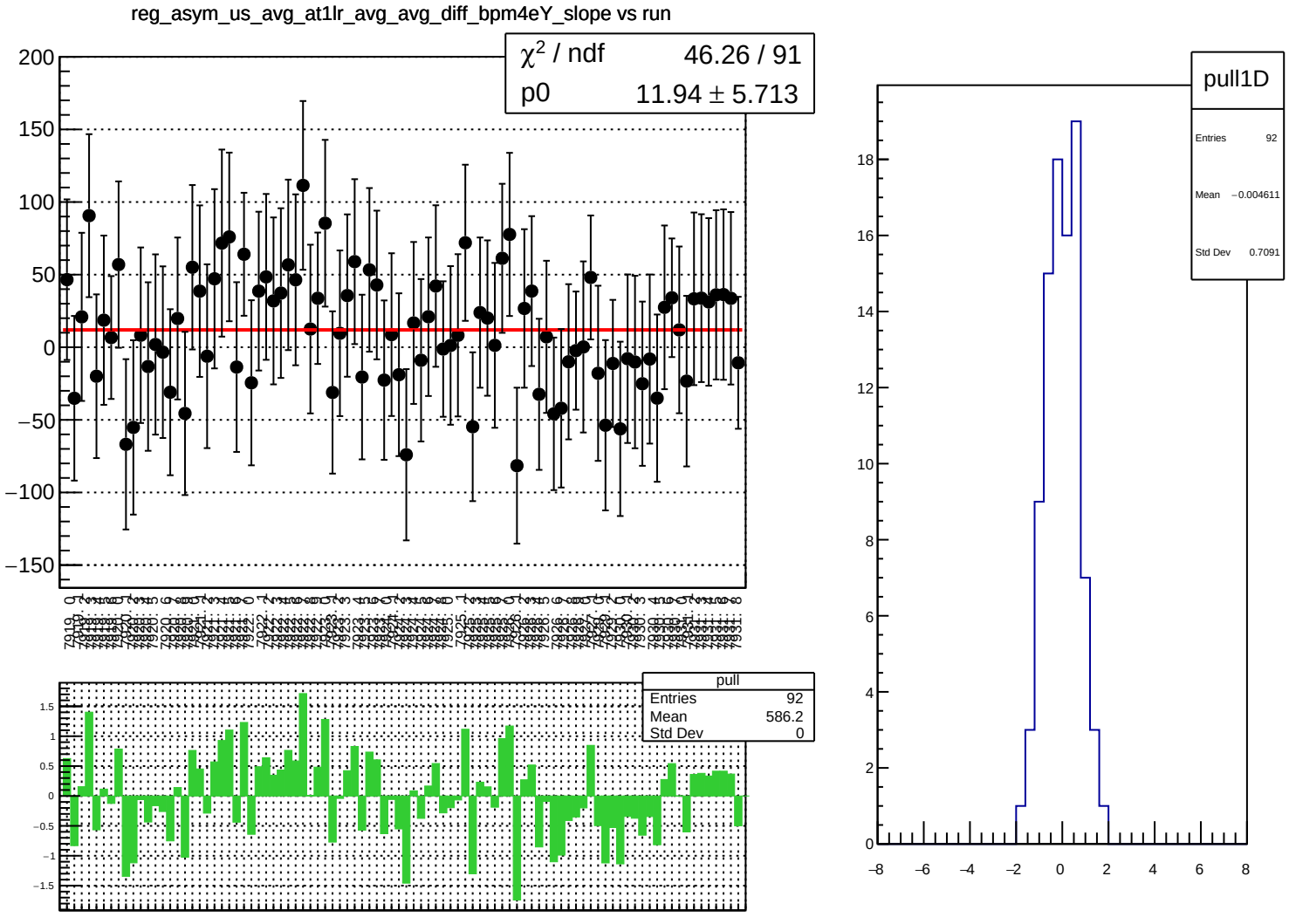

reg_asym_usr_atr2_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.833 / 91
p0 7.37 ± 9.708
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean 154.1
Std Dev 0
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 92
Mean −0.003626
Std Dev 0.2292
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

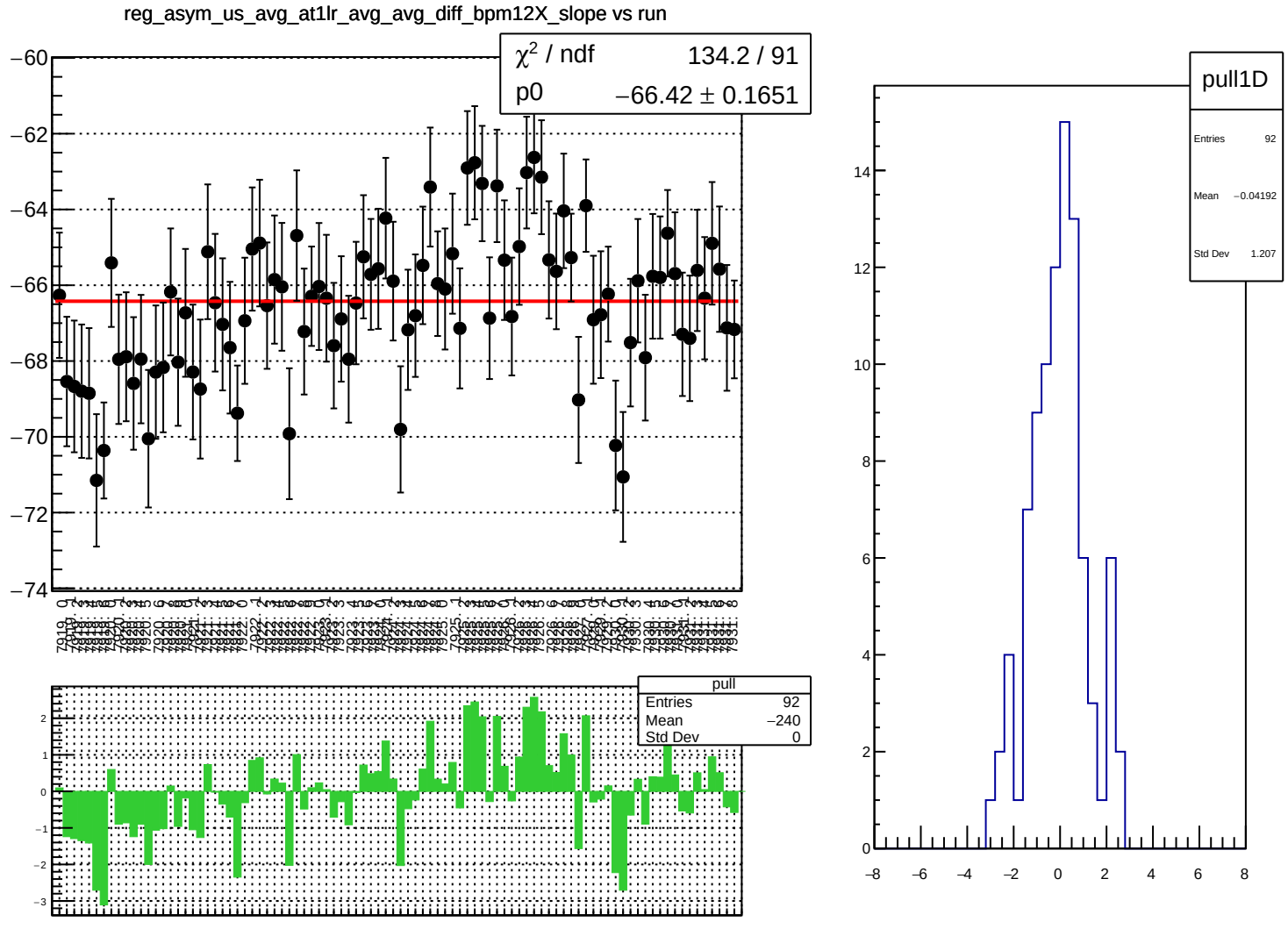

reg_asym_usr_atr2_dd_diff_bpm12X_slope vs run
χ² / ndf 7.556 / 91
p0 127.4 ± 0.2807
132
130
128
126
124
122
pull
Entries 92
Mean −271.8
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 92
Mean −0.002042
Std Dev 0.2866
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

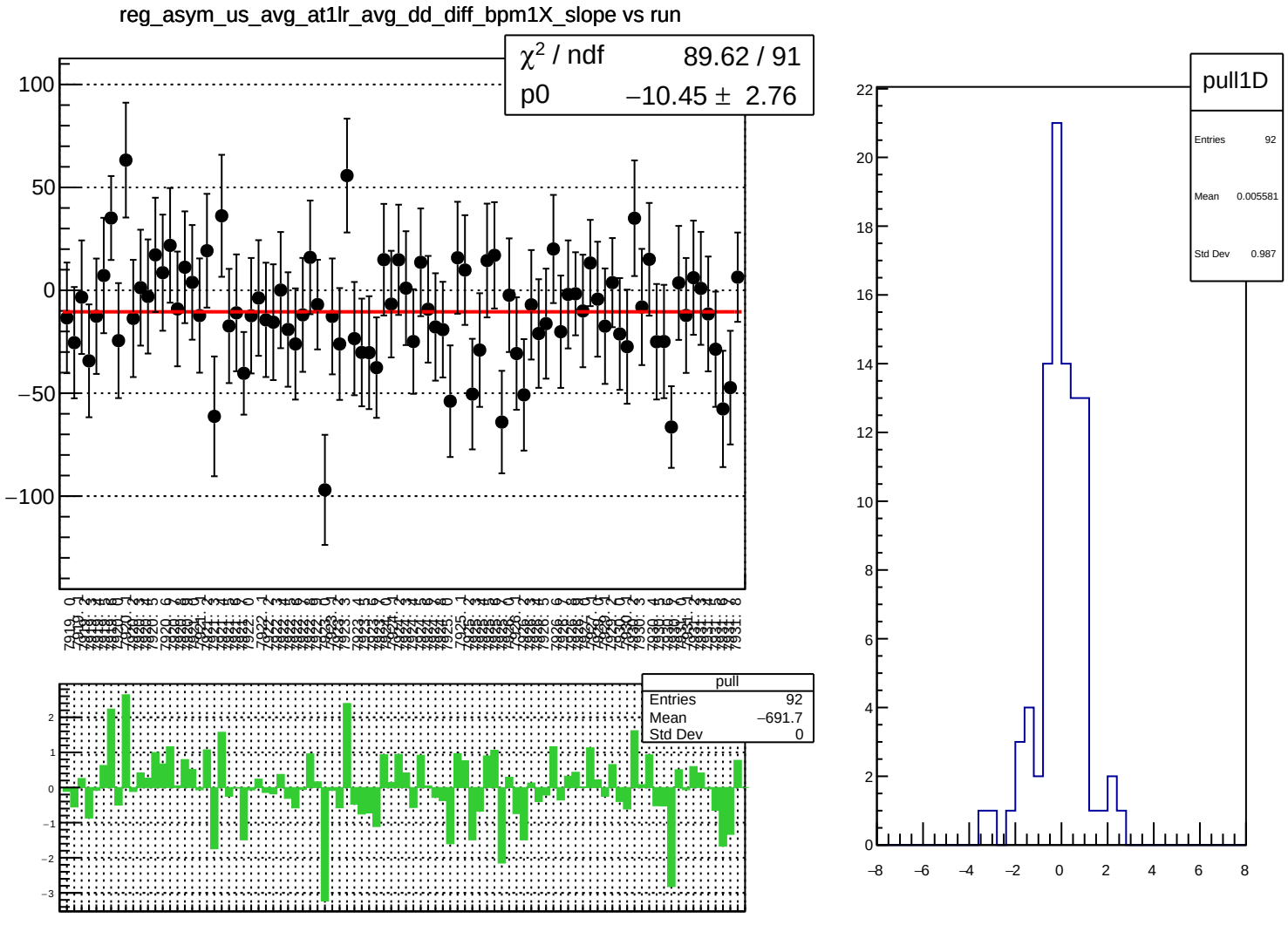

reg_asym_us_avg_at1lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 42.53 / 91
p0 −71.95 ± 4.818
pull
Entries 92
Mean 1730
Std Dev 0
pull1D
Entries 92
Mean 0.002111
Std Dev 0.6799

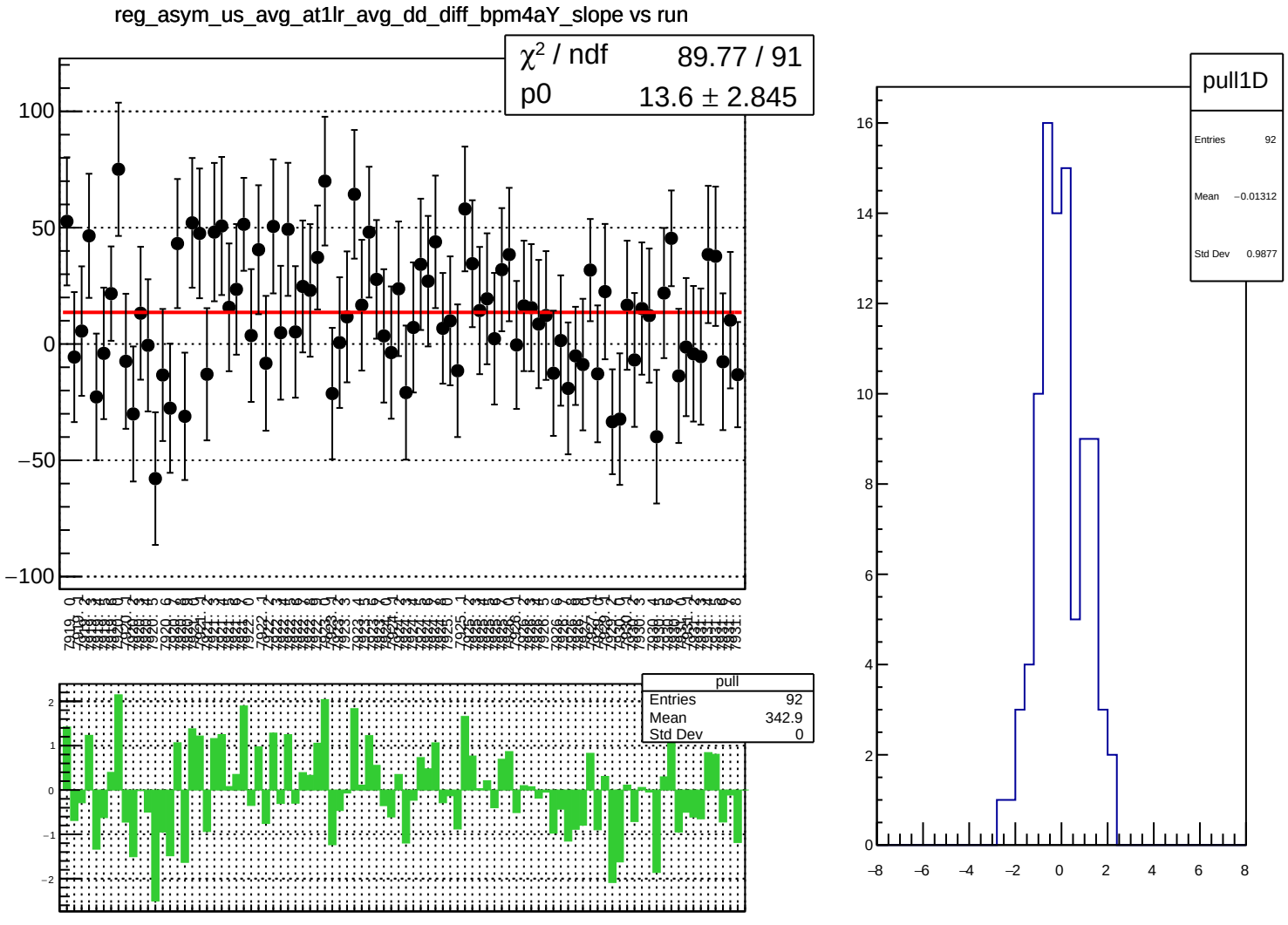

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 43.75 / 91
p0 20.1 ± 4.969
150
100
50
0
−50
−100
pull
Entries 92
Mean 258.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 92
Mean 0.005633
Std Dev 0.6896
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

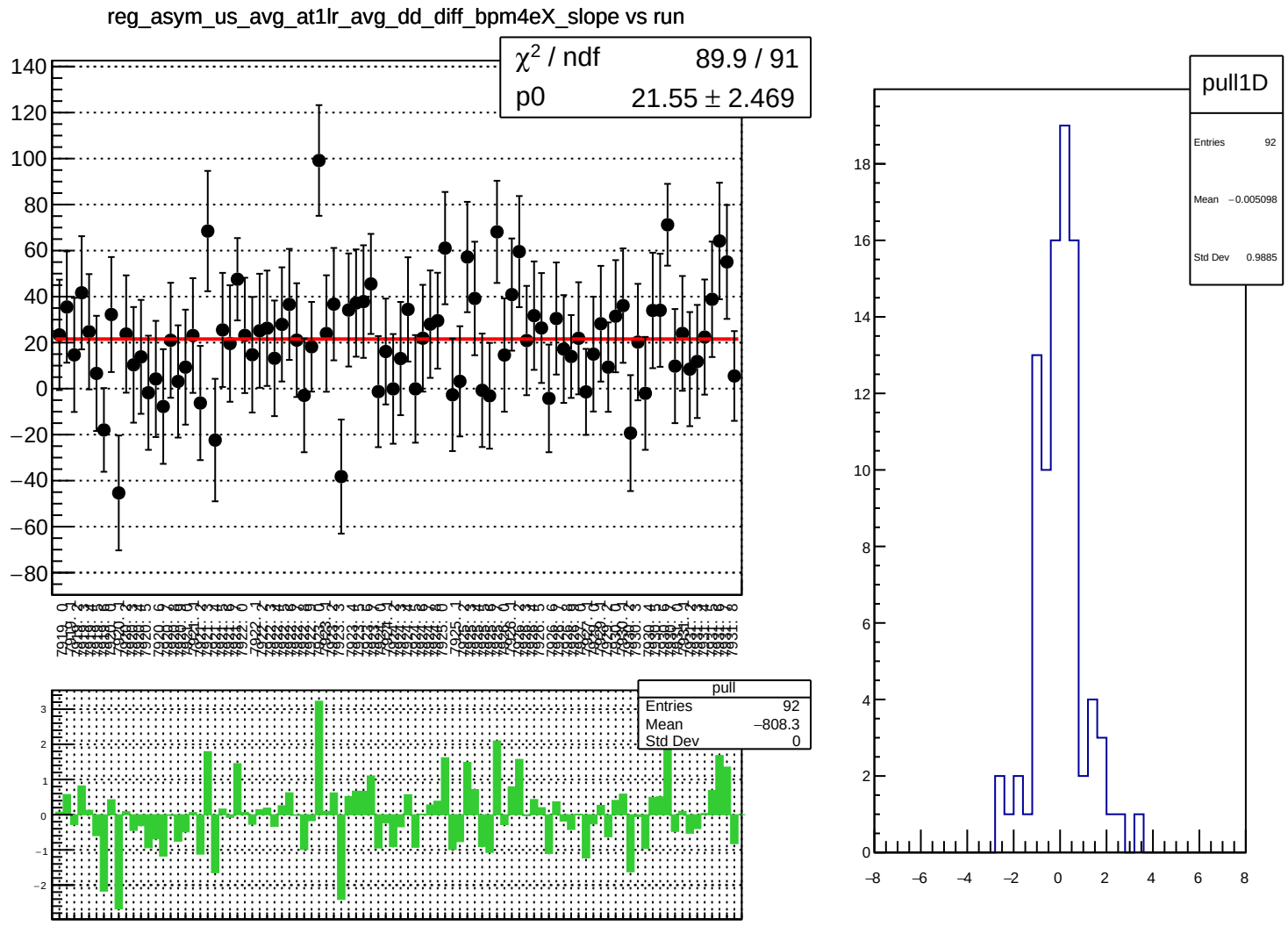

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 42.84 / 91
p0 57.1 ± 4.309
150
100
50
0
−50
pull
Entries 92
Mean 2780
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 92
Mean −0.001445
Std Dev 0.6823
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

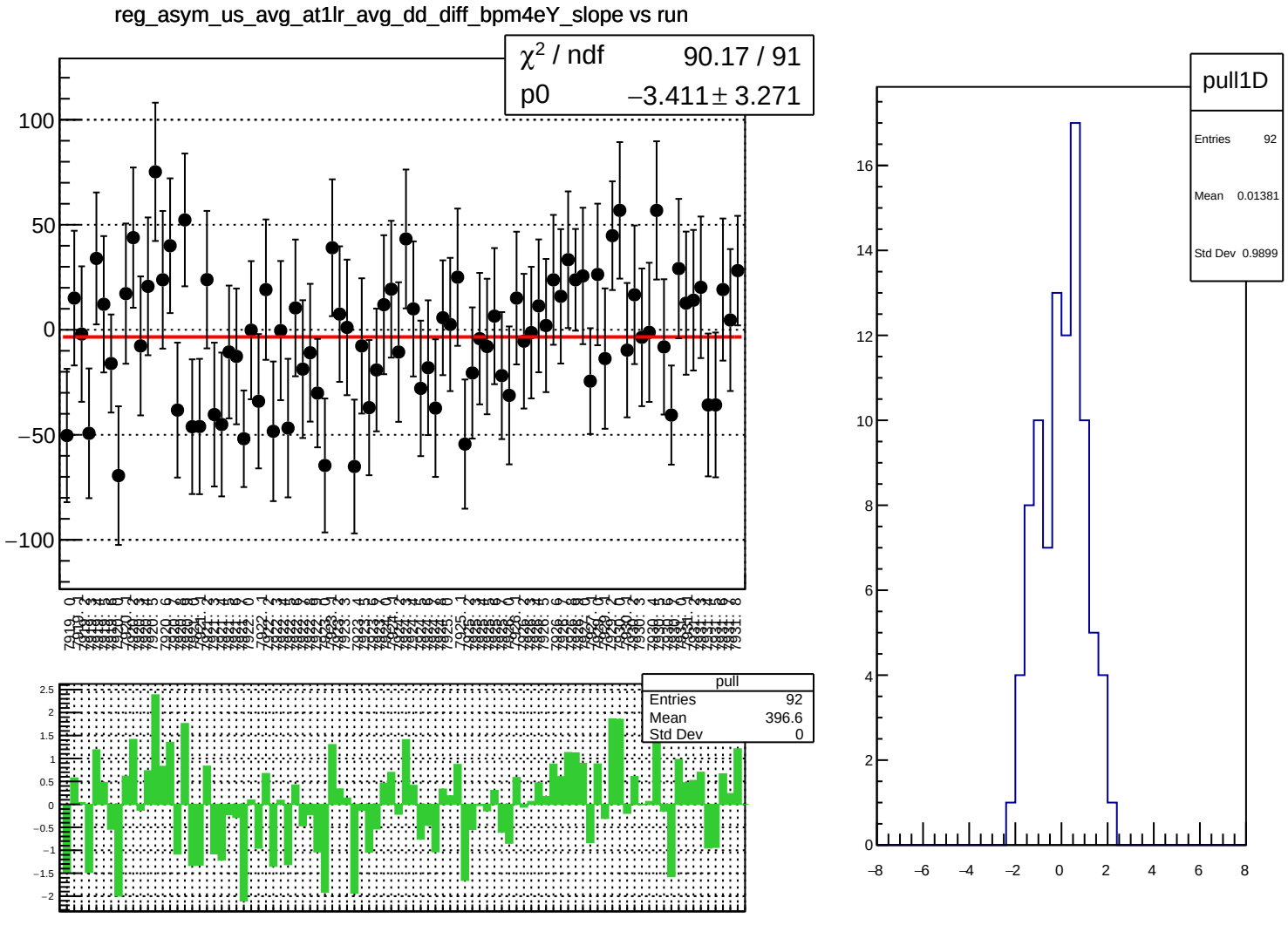

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 46.26 / 91
p0 11.94 ± 5.713
pull
Entries 92
Mean 586.2
Std Dev 0
pull1D
Entries 92
Mean −0.004611
Std Dev 0.7091

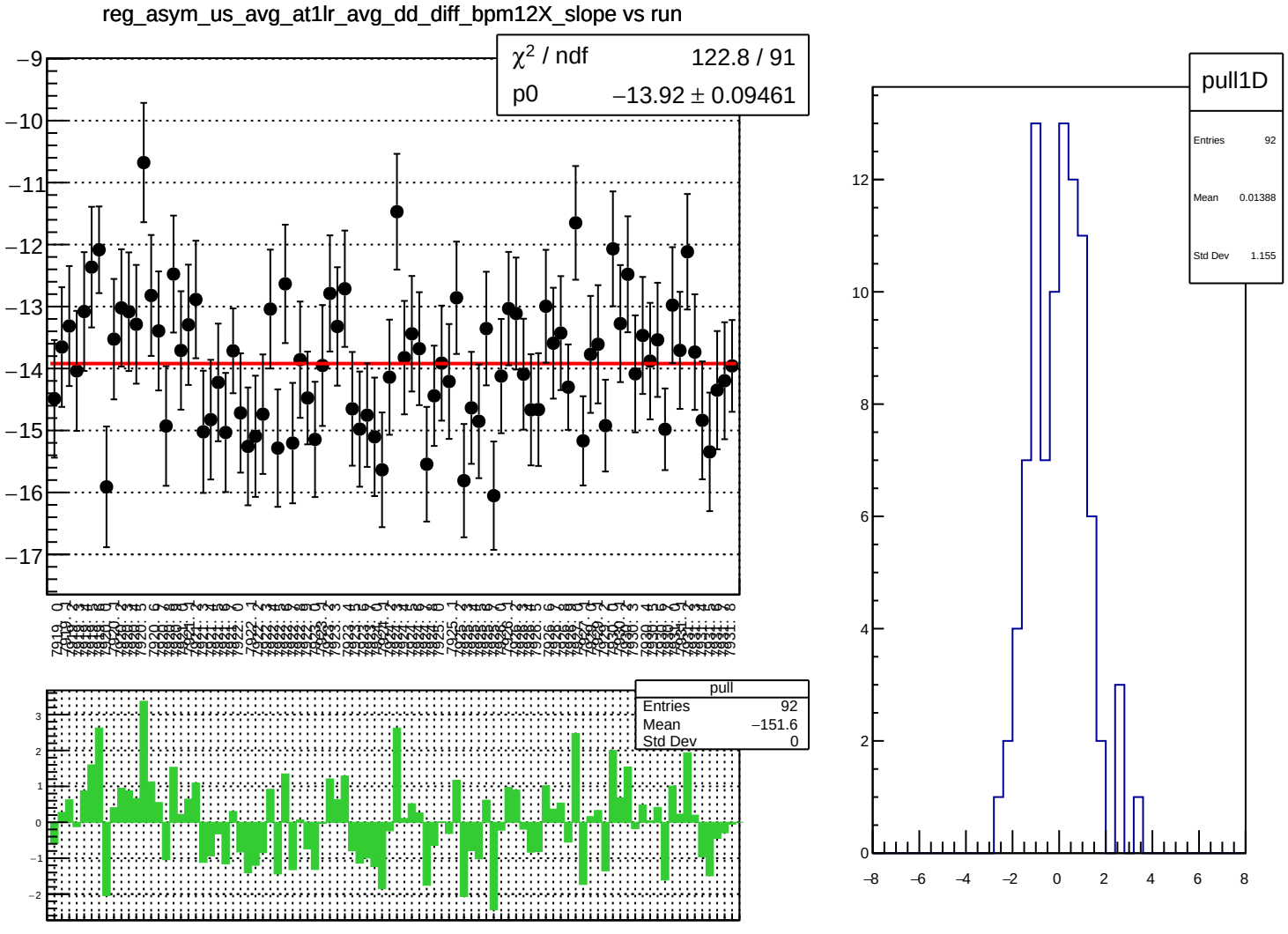

reg_asym_us_avg_at1lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 134.2 / 91
p0 −66.42 ± 0.1651
pull
Entries 92
Mean −240
Std Dev 0
pull1D
Entries 92
Mean −0.04192
Std Dev 1.207

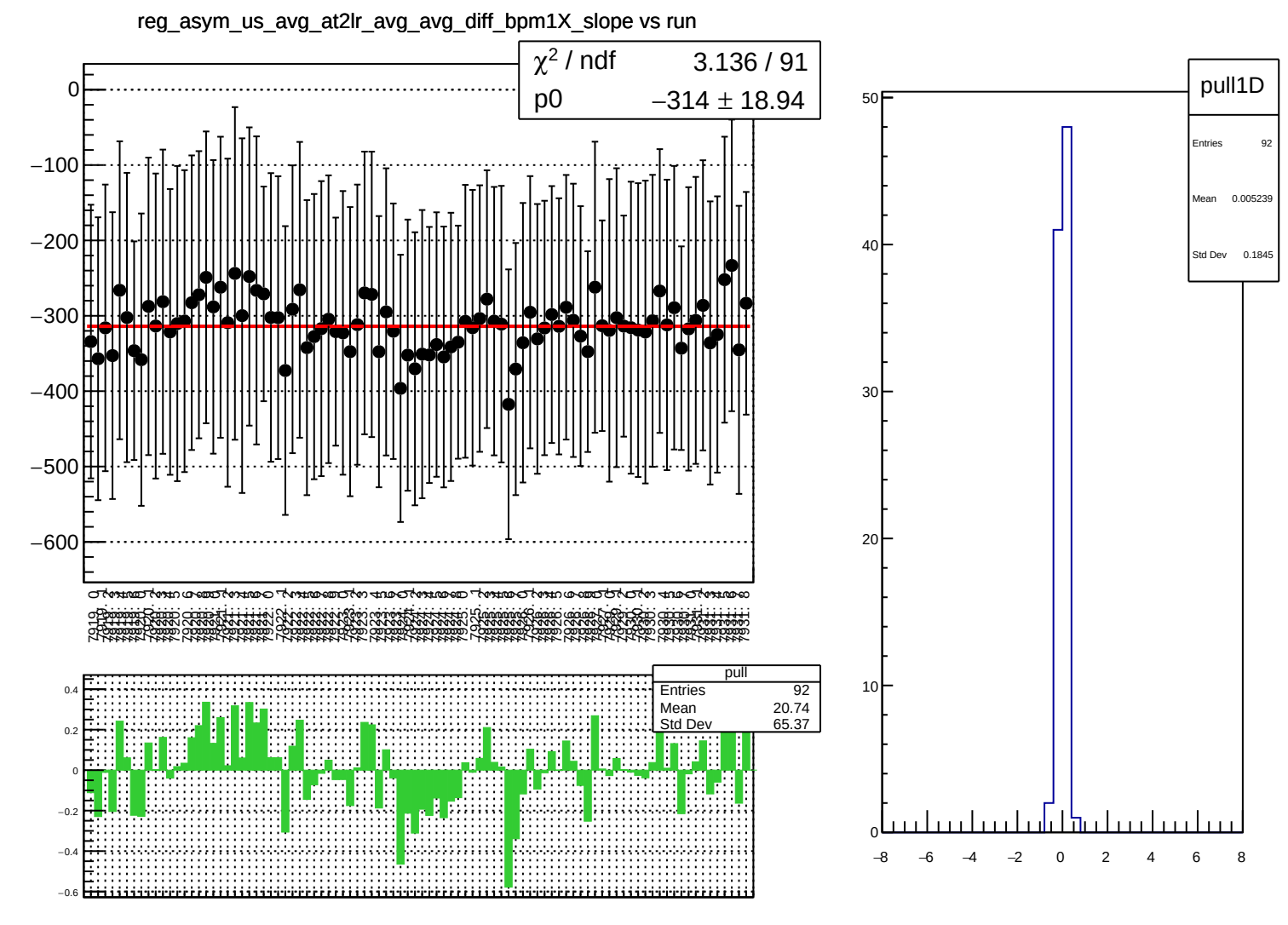

reg_asym_us_avg_at1lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 89.62 / 91
p0 −10.45 ± 2.76
100
50
0
−50
−100
pull
Entries 92
Mean −691.7
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean 0.005581
Std Dev 0.987
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

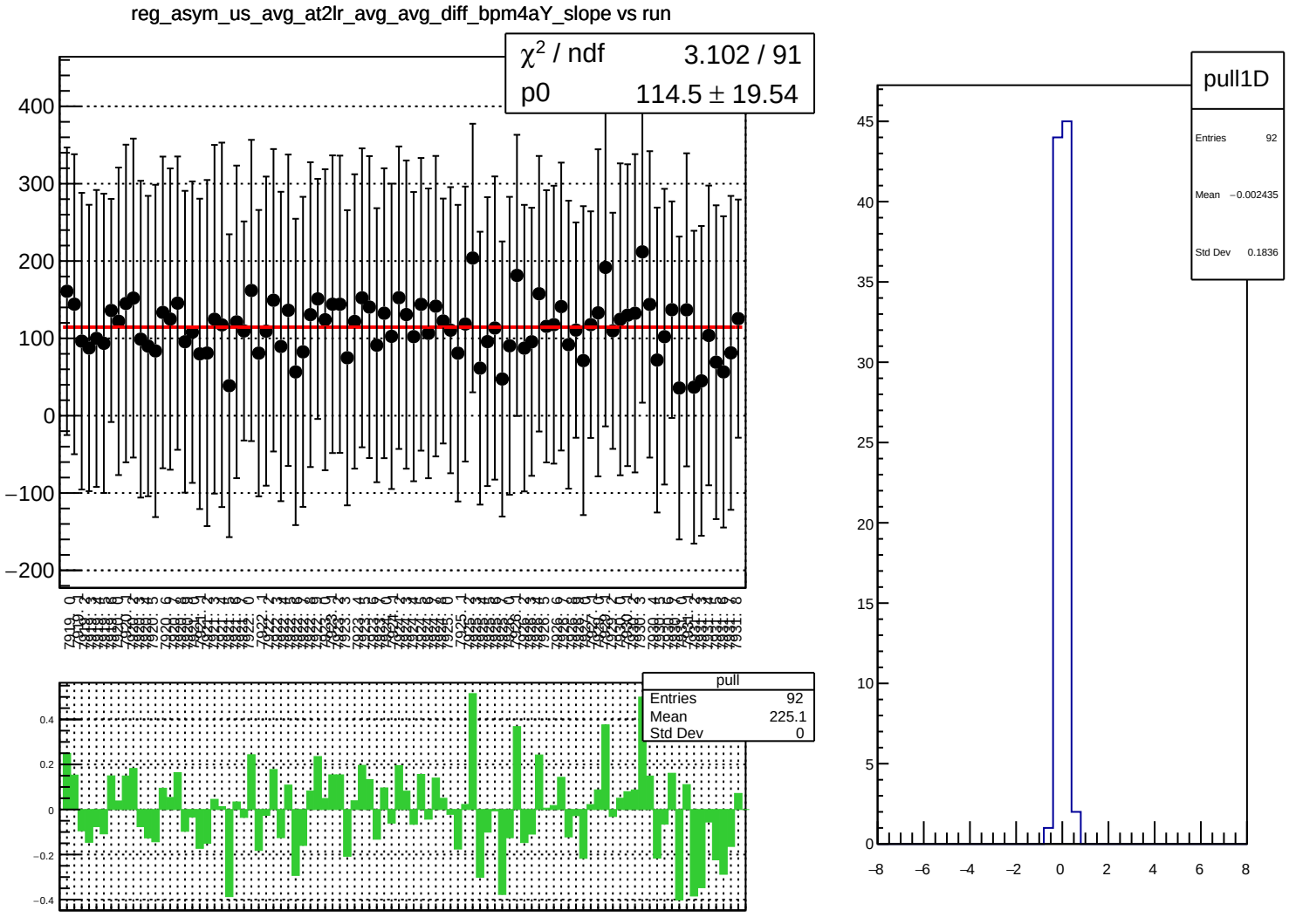

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 89.77 / 91
p0 13.6 ± 2.845
pull
Entries 92
Mean 342.9
Std Dev 0
pull1D
Entries 92
Mean −0.01312
Std Dev 0.9877

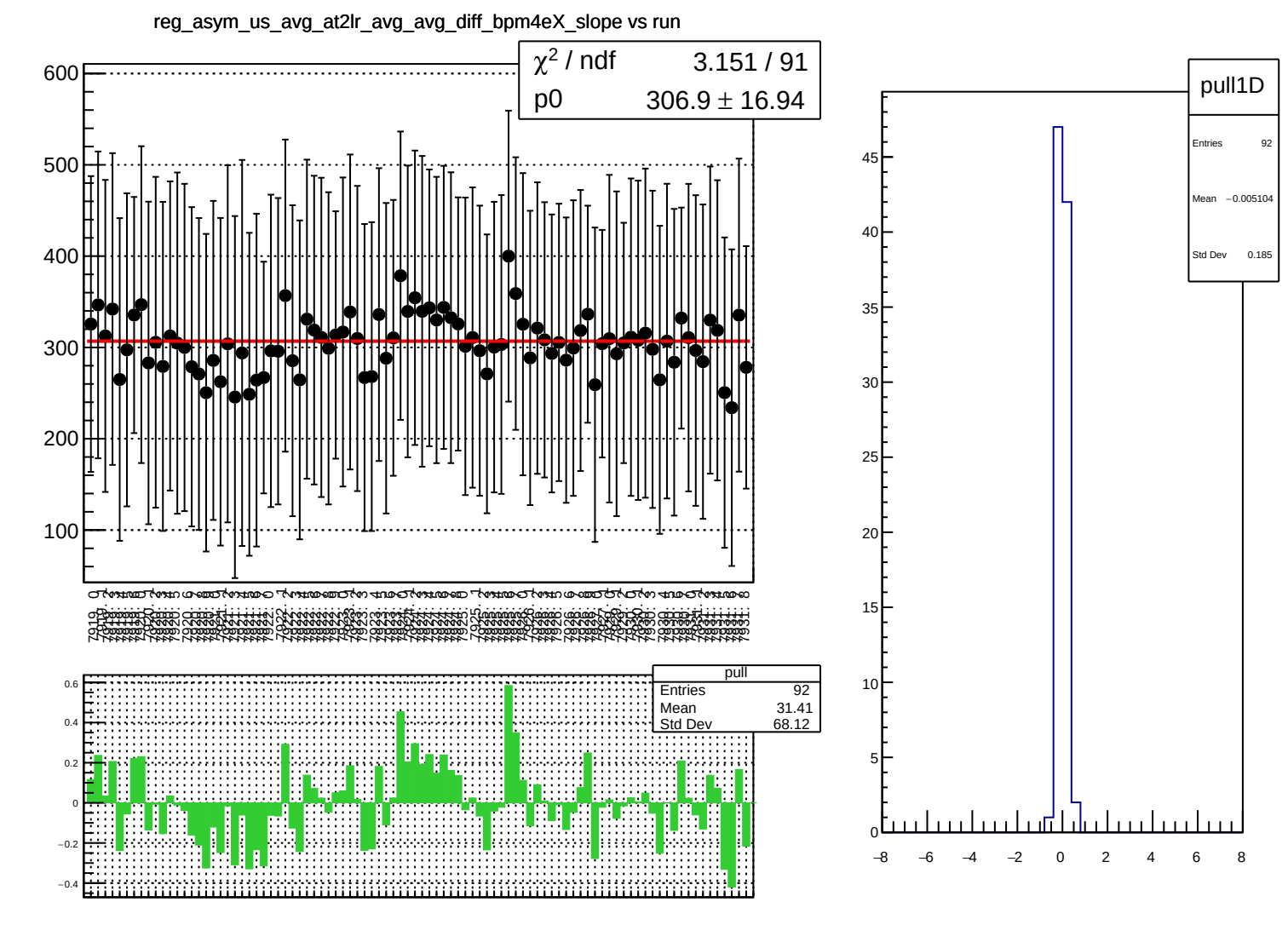

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 89.9 / 91
p0 21.55 ± 2.469
pull
Entries 92
Mean −808.3
Std Dev 0
pull1D
Entries 92
Mean −0.005098
Std Dev 0.9885

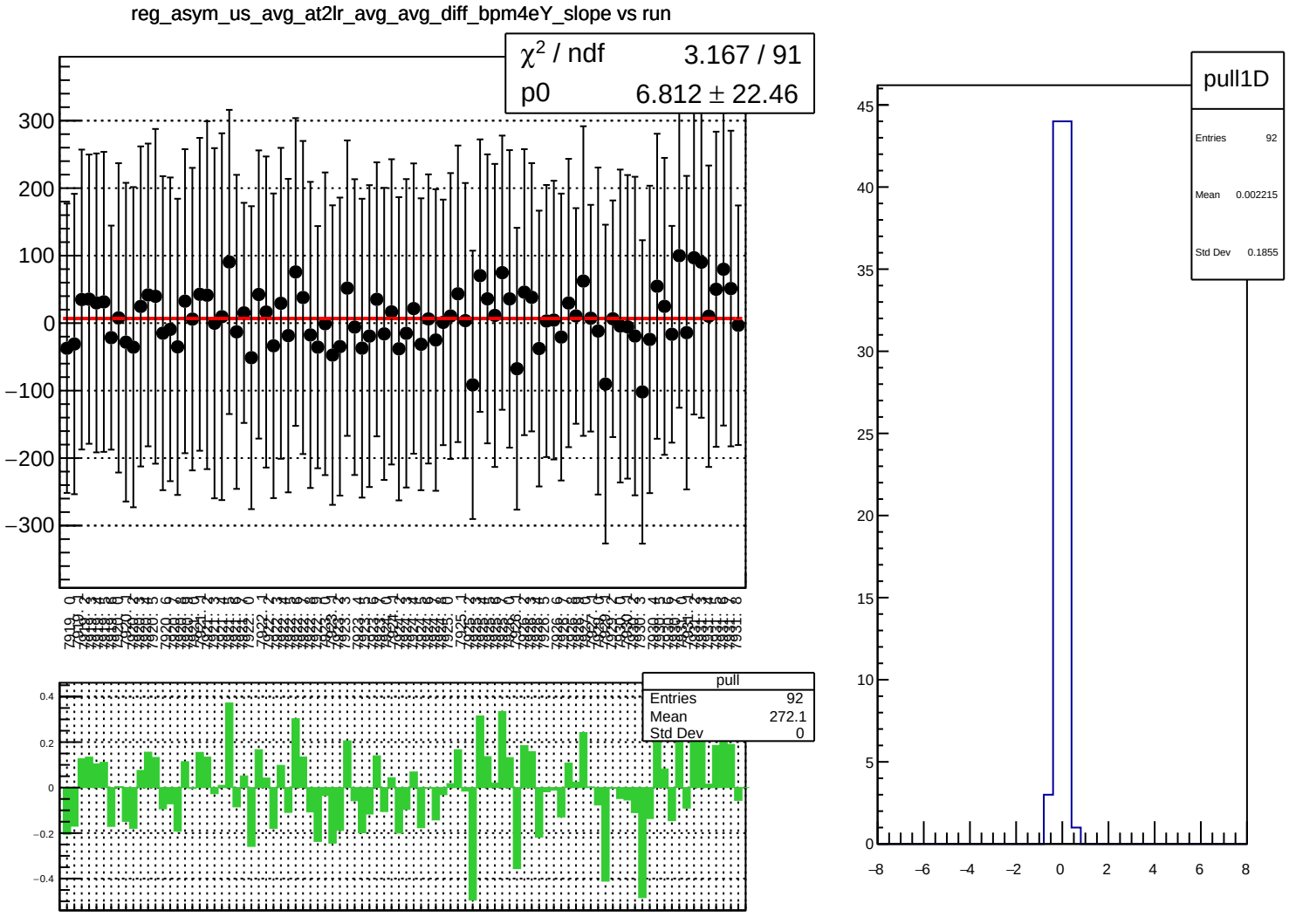

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 90.17 / 91
p0 −3.411 ± 3.271
pull
Entries 92
Mean 396.6
Std Dev 0
pull1D
Entries 92
Mean 0.01381
Std Dev 0.9899

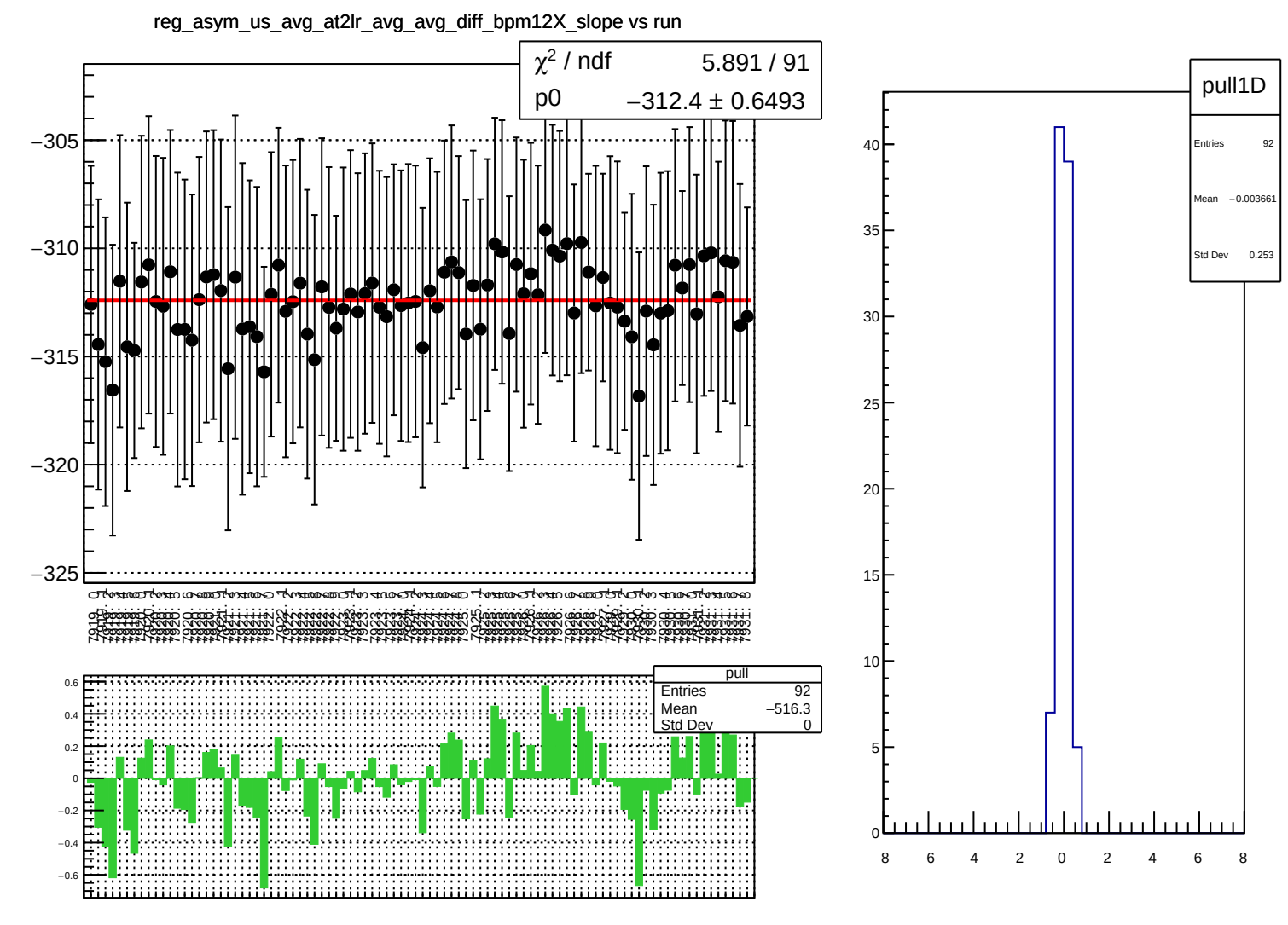

reg_asym_us_avg_at1lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 122.8 / 91
p0 −13.92 ± 0.09461
pull
Entries 92
Mean −151.6
Std Dev 0
pull1D
Entries 92
Mean 0.01388
Std Dev 1.155

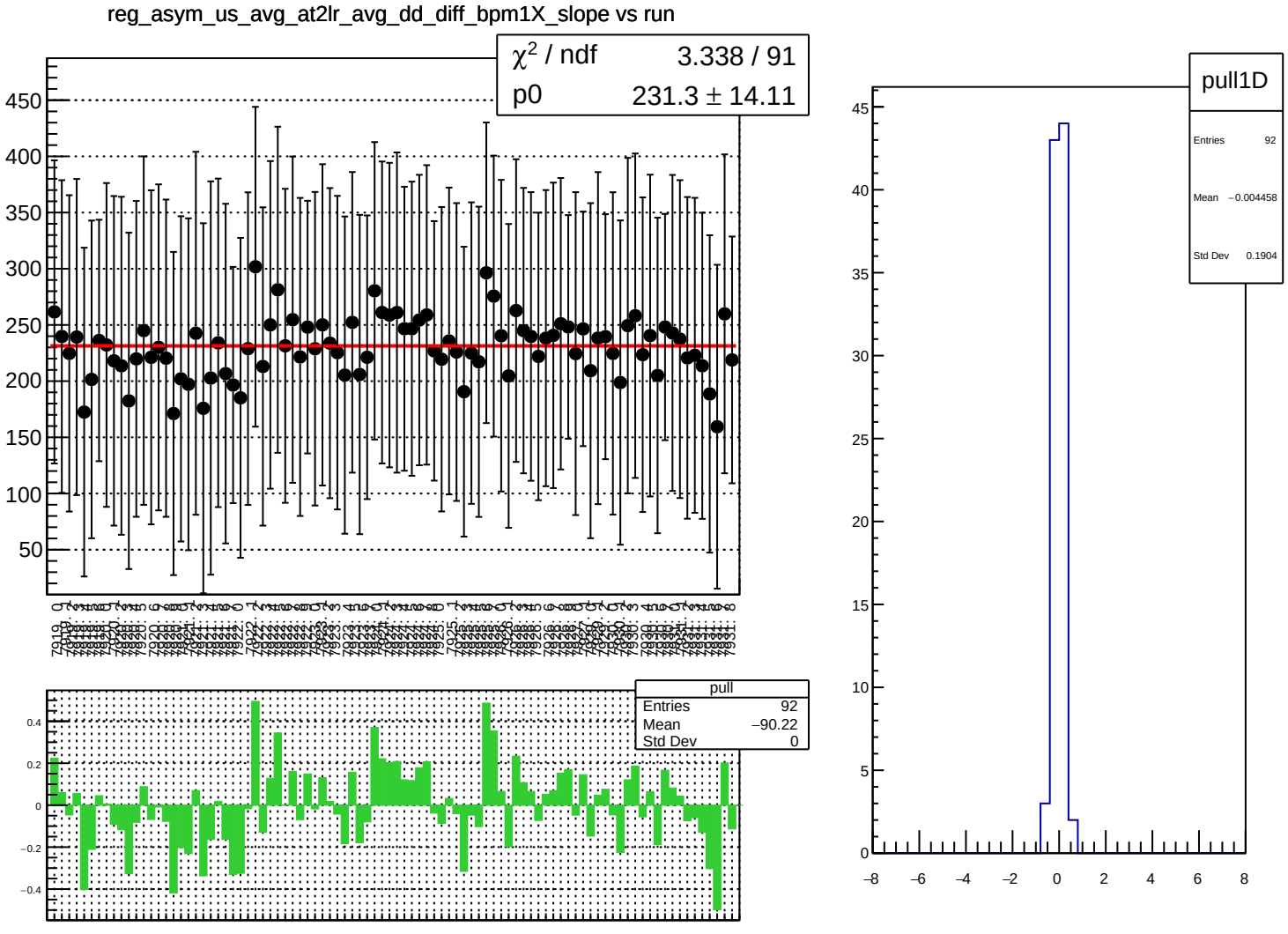

reg_asym_us_avg_at2lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 3.136 / 91
p0 −314 ± 18.94
pull
Entries 92
Mean 20.74
Std Dev 65.37
pull1D
Entries 92
Mean 0.005239
Std Dev 0.1845

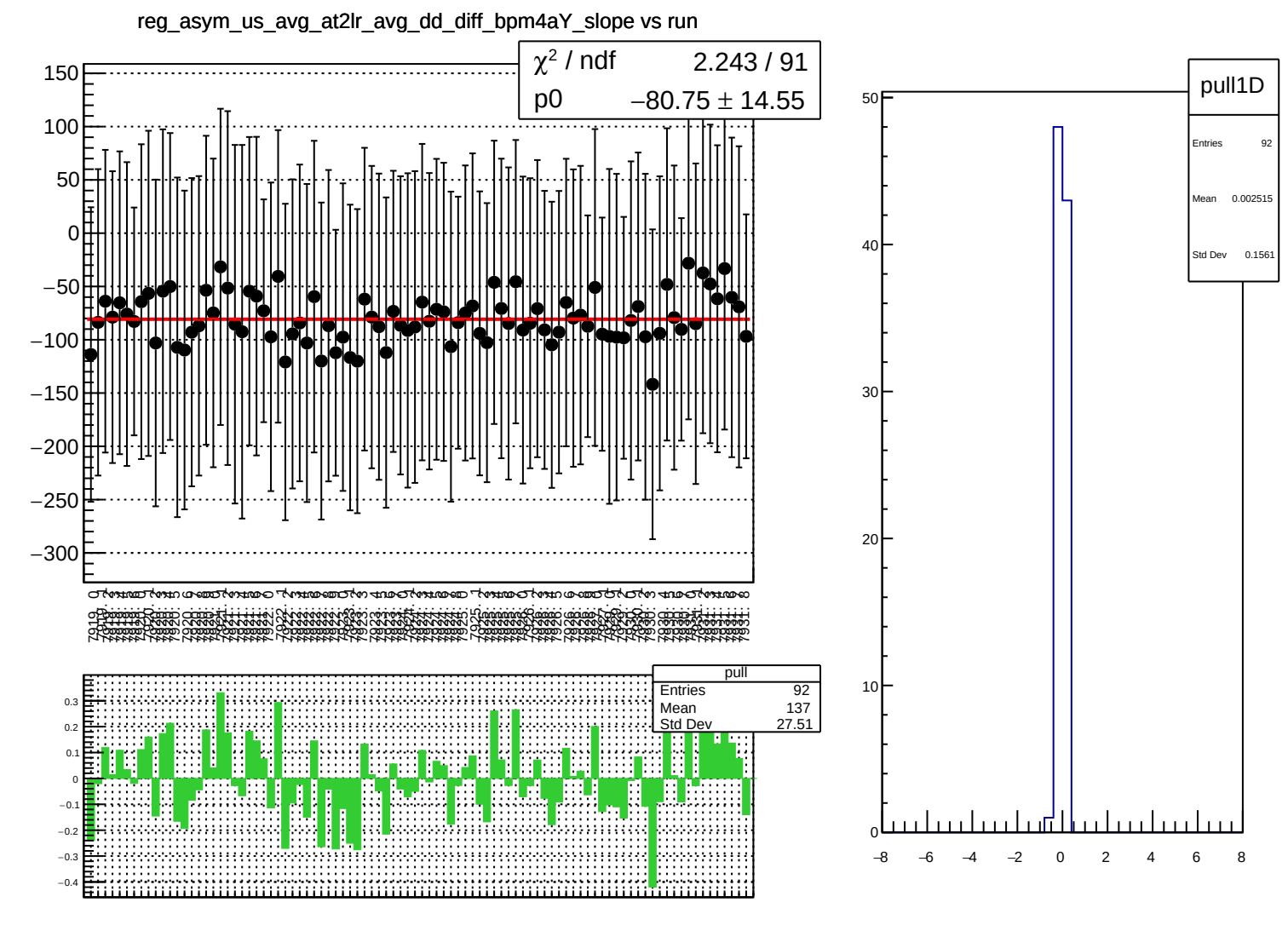

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.102 / 91
p0 114.5 ± 19.54
400
300
200
100
0
−100
−200
pull
Entries 92
Mean 225.1
Std Dev 0
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 92
Mean −0.002435
Std Dev 0.1836
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

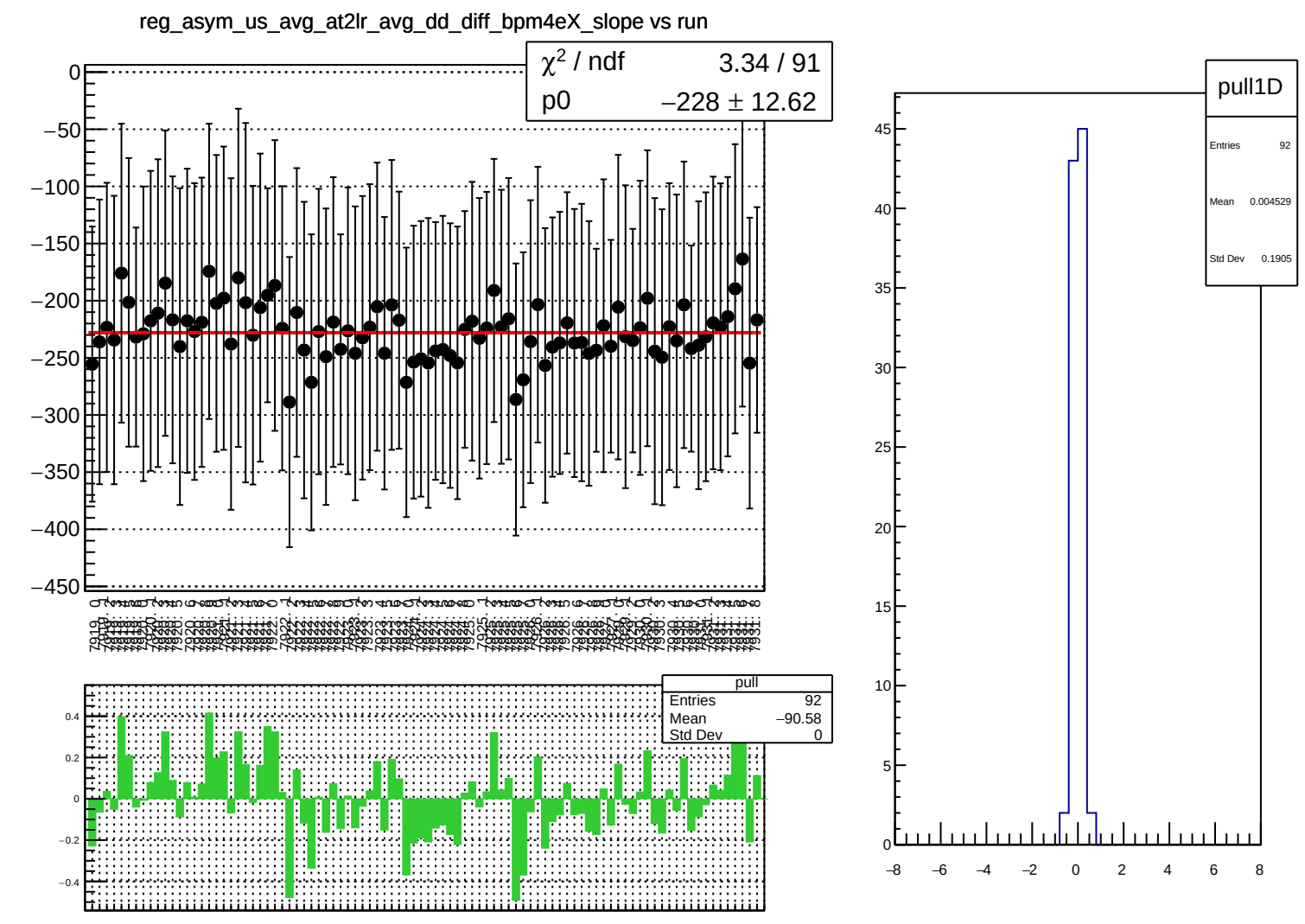

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.151 / 91
p0 306.9 ± 16.94
pull
Entries 92
Mean 31.41
Std Dev 68.12
pull1D
Entries 92
Mean −0.005104
Std Dev 0.185

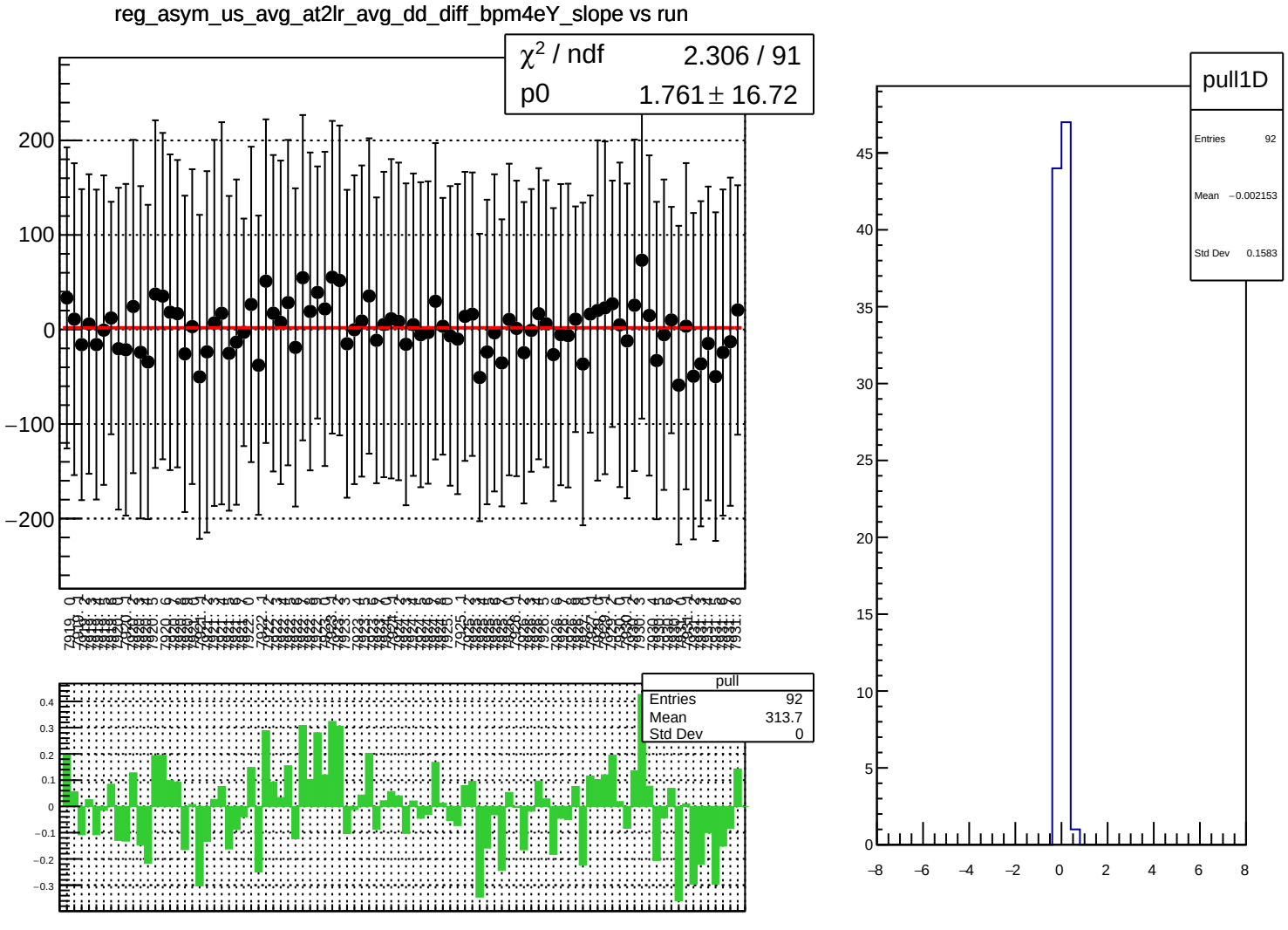

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.167 / 91
p0 6.812 ± 22.46
300
200
100
0
−100
−200
−300
pull
Entries 92
Mean 272.1
Std Dev 0
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 92
Mean 0.002215
Std Dev 0.1855
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

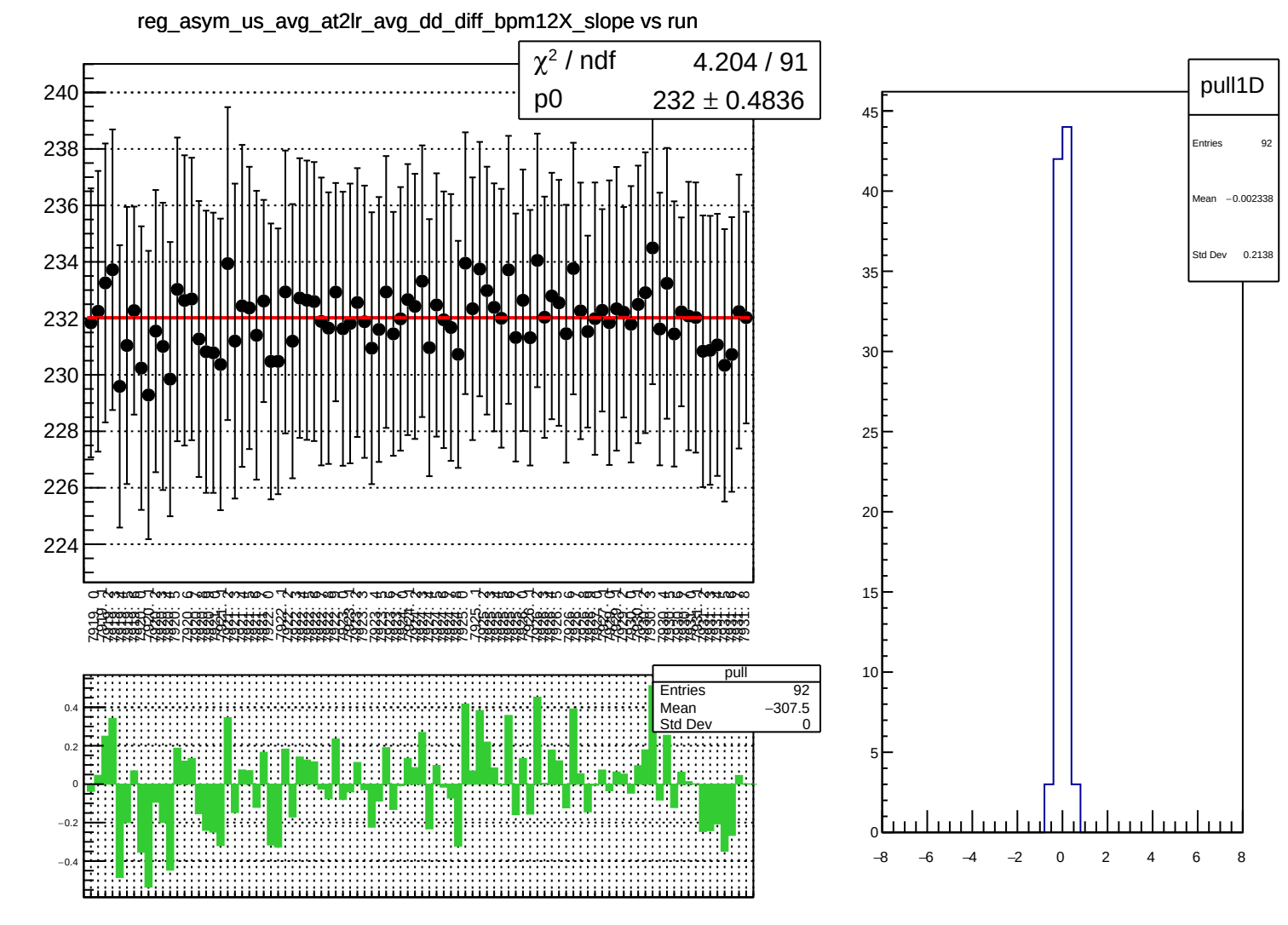

reg_asym_us_avg_at2lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 5.891 / 91
p0 −312.4 ± 0.6493
−305
−310
−315
−320
−325
pull
Entries 92
Mean −516.3
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 92
Mean −0.003661
Std Dev 0.253
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

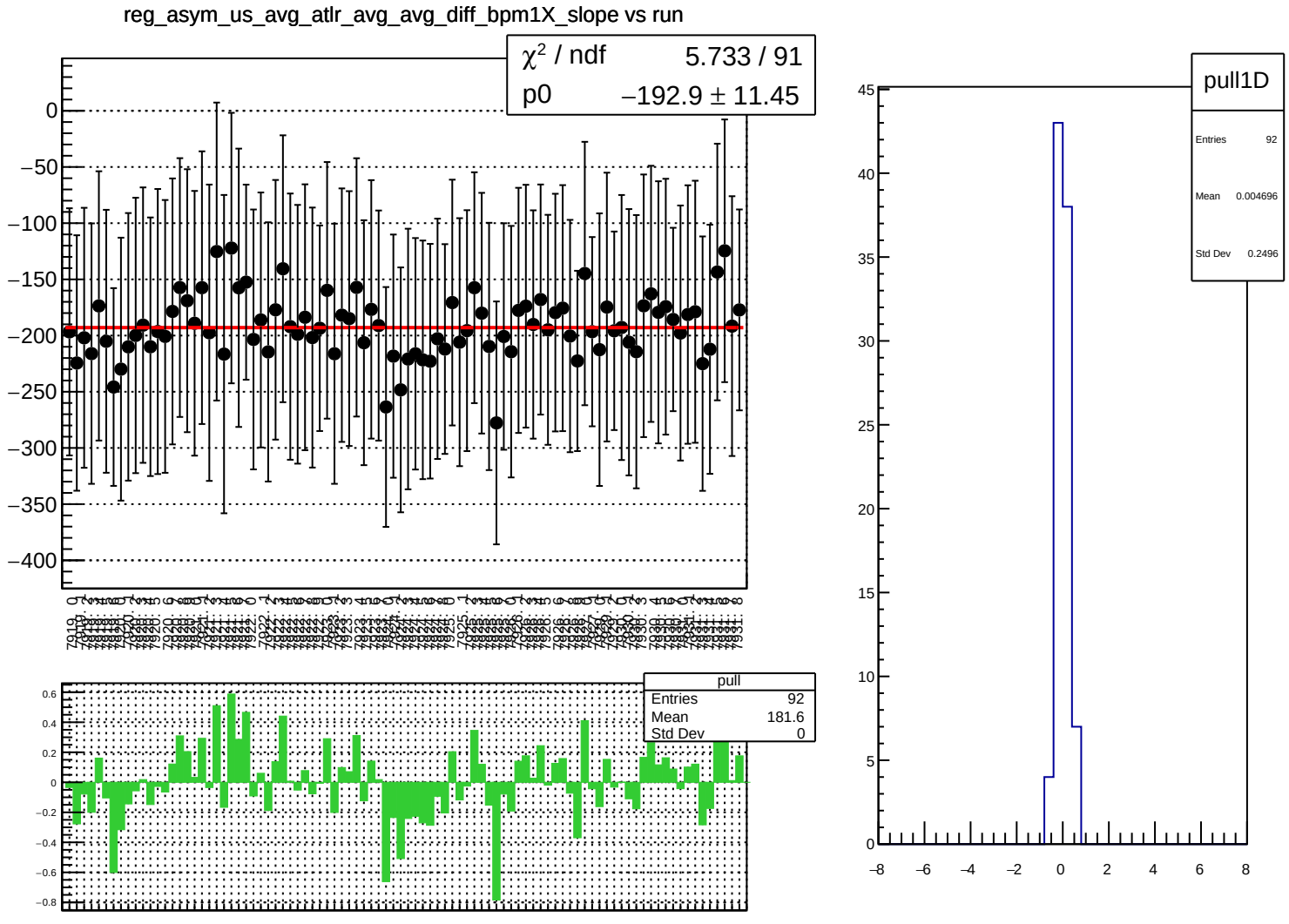

reg_asym_us_avg_at2lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 3.338 / 91
p0 231.3 ± 14.11
pull
Entries 92
Mean −90.22
Std Dev 0
pull1D
Entries 92
Mean −0.004458
Std Dev 0.1904

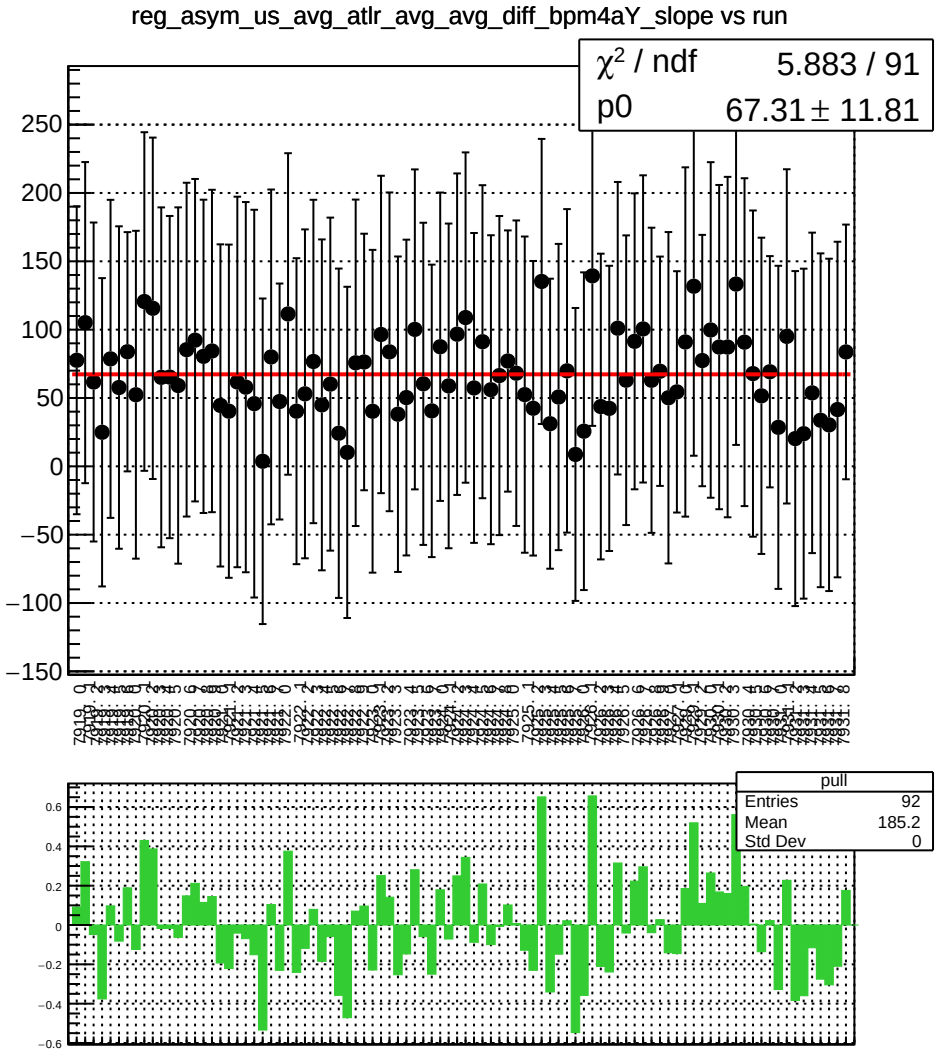

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.243 / 91
p0 −80.75 ± 14.55
pull
Entries 92
Mean 137
Std Dev 27.51
pull1D
Entries 92
Mean 0.002515
Std Dev 0.1561

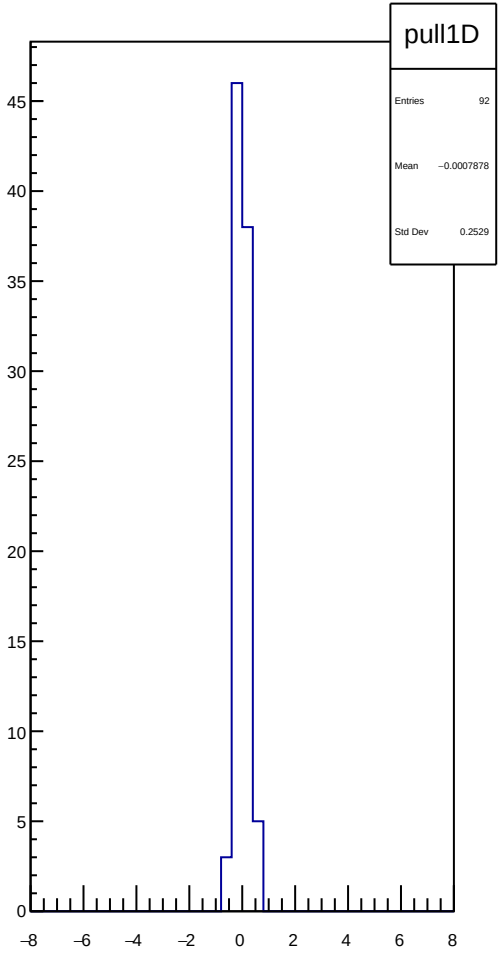

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.34 / 91
p0 −228 ± 12.62
pull
Entries 92
Mean −90.58
Std Dev 0
pull1D
Entries 92
Mean 0.004529
Std Dev 0.1905

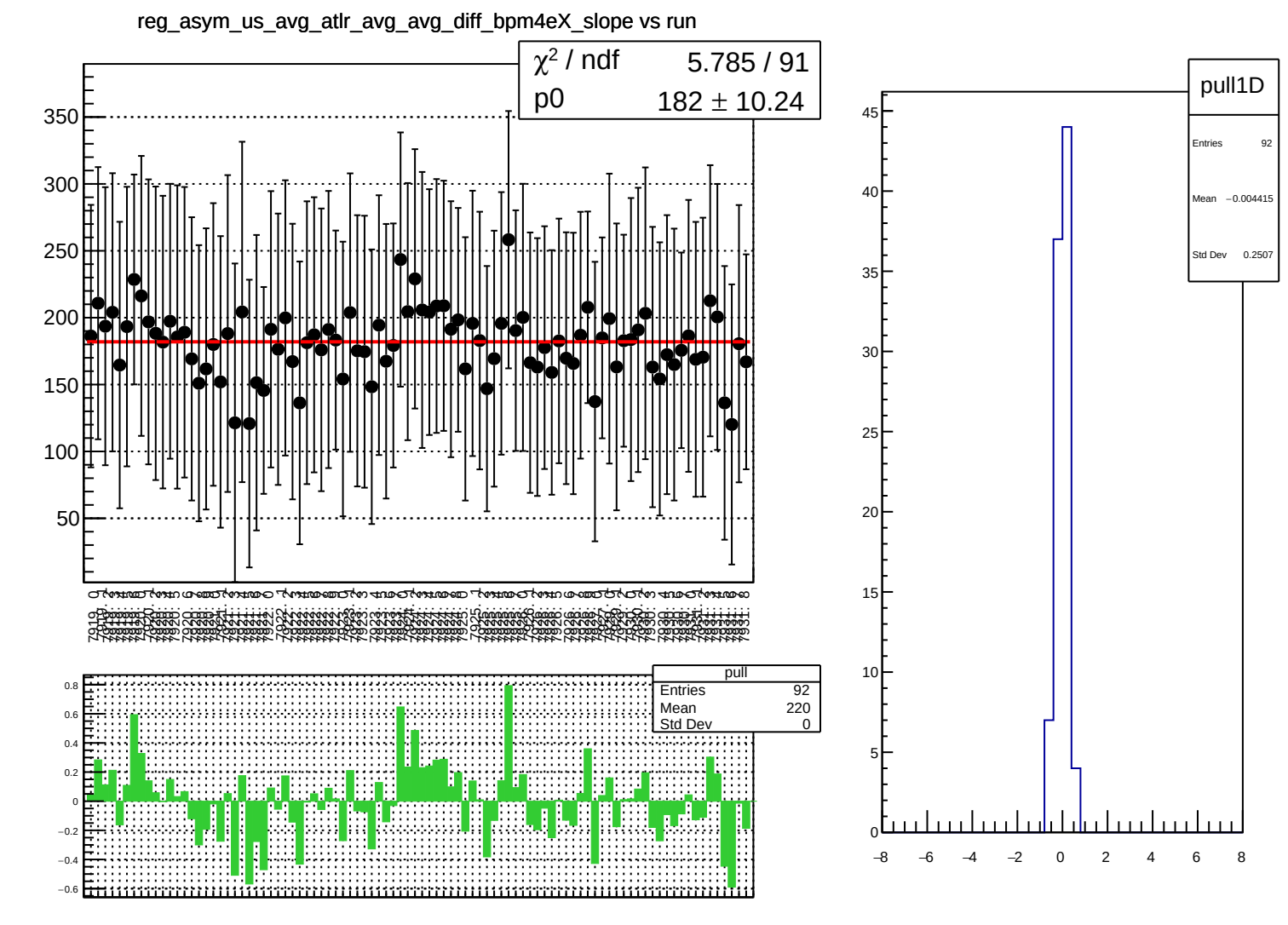

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.306 / 91
p0 1.761 ± 16.72
200
100
0
−100
−200
pull
Entries 92
Mean 313.7
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 92
Mean −0.002153
Std Dev 0.1583
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

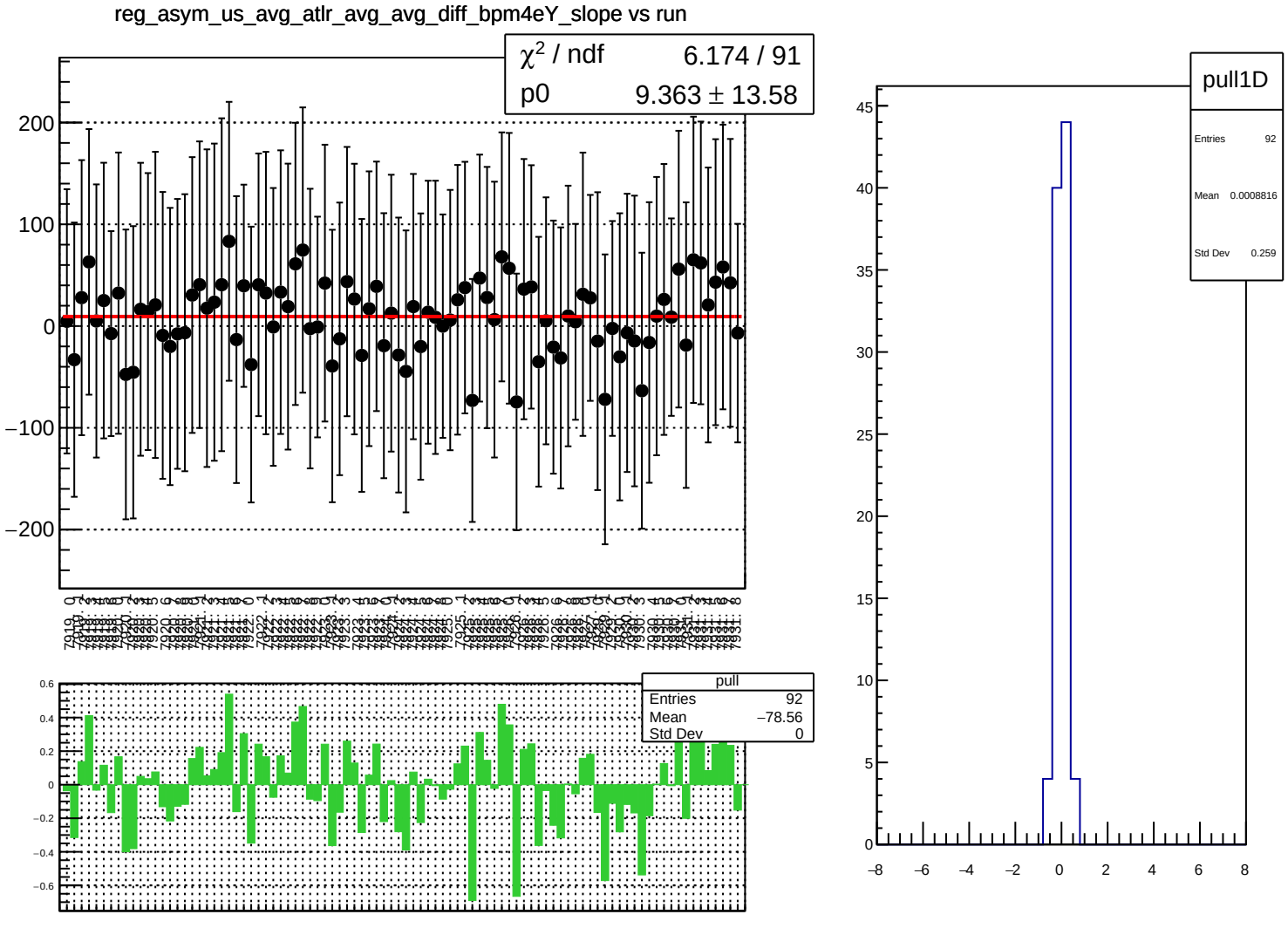

reg_asym_us_avg_at2lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 4.204 / 91
p0 232 ± 0.4836
240
238
236
234
232
230
228
226
224
pull
Entries 92
Mean −307.5
Std Dev 0
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 92
Mean −0.002338
Std Dev 0.2138
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

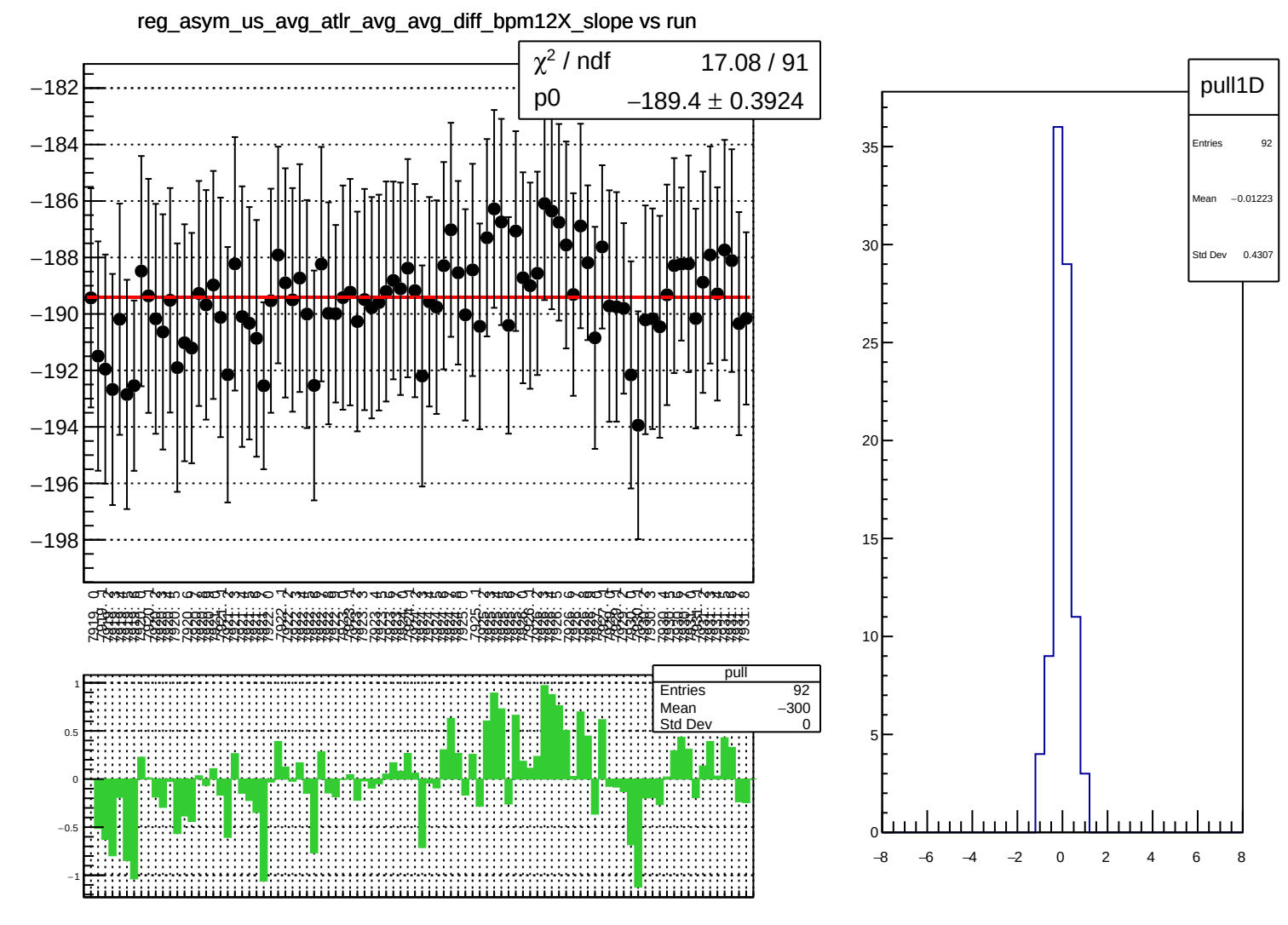

reg_asym_us_avg_atlr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 5.733 / 91
p0 −192.9 ± 11.45
pull
Entries 92
Mean 181.6
Std Dev 0
pull1D
Entries 92
Mean 0.004696
Std Dev 0.2496

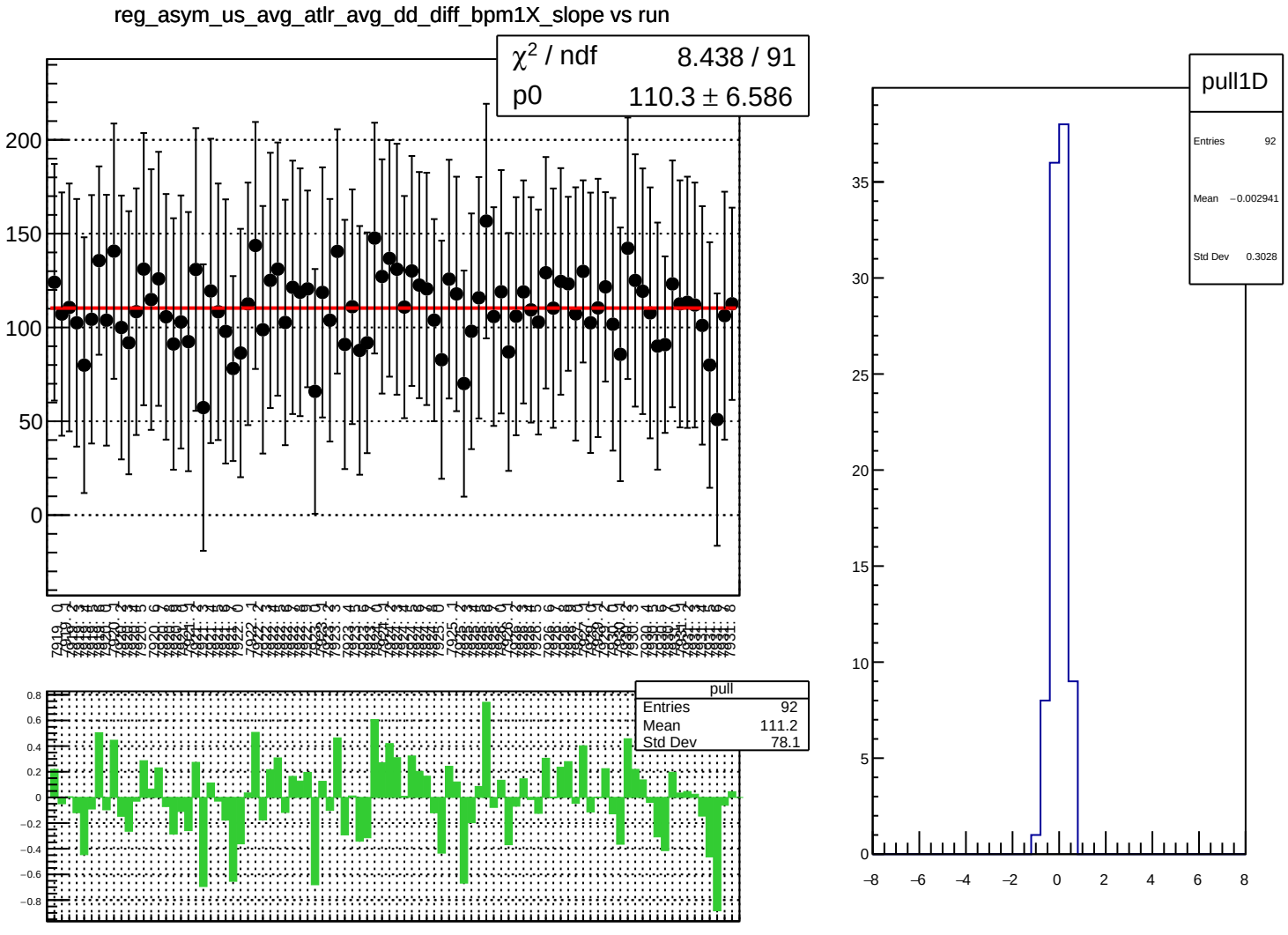

reg_asym_us_avg_atlr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.883 / 91
p0 67.31 ± 11.81
pull
Entries 92
Mean 185.2
Std Dev 0

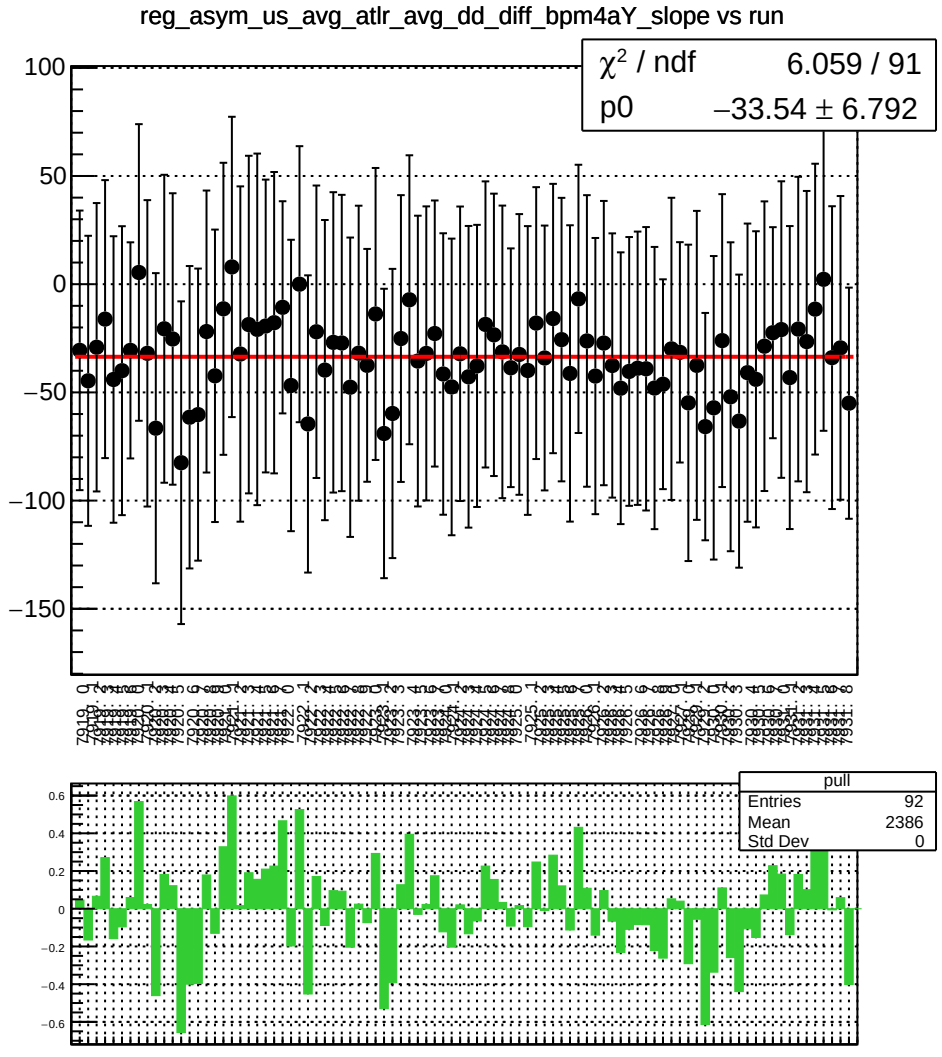

pull1D
Entries 92
Mean −0.0007878
Std Dev 0.2529

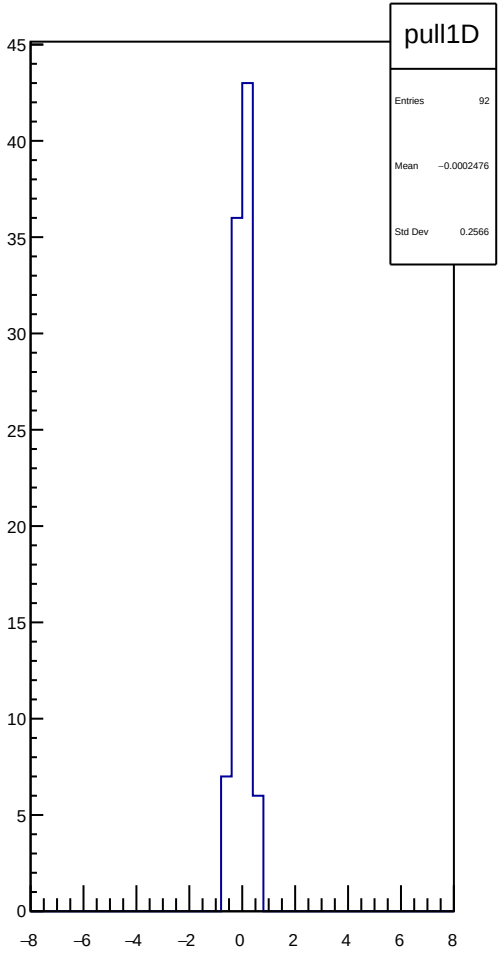

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 5.785 / 91
p0 182 ± 10.24
pull
Entries 92
Mean 220
Std Dev 0
pull1D
Entries 92
Mean −0.004415
Std Dev 0.2507

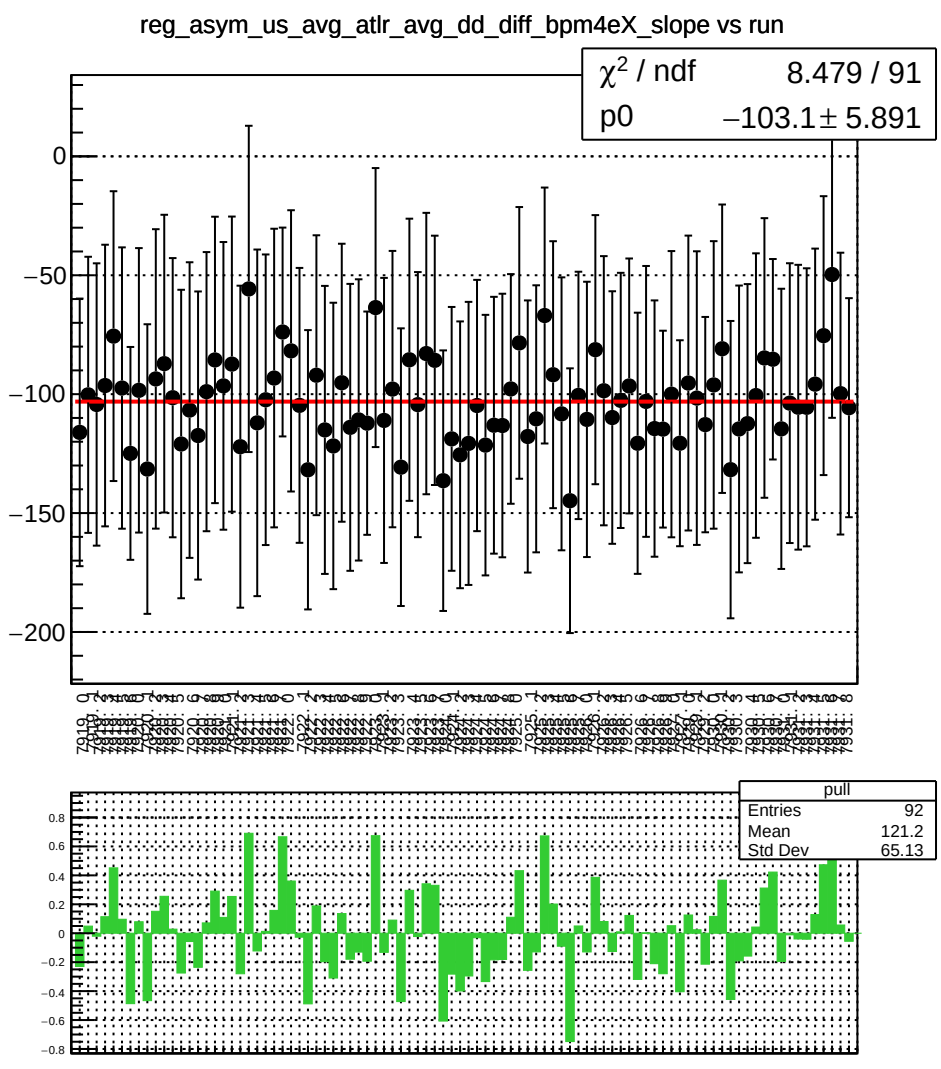

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.174 / 91
p0 9.363 ± 13.58
pull
Entries 92
Mean −78.56
Std Dev 0
pull1D
Entries 92
Mean 0.0008816
Std Dev 0.259

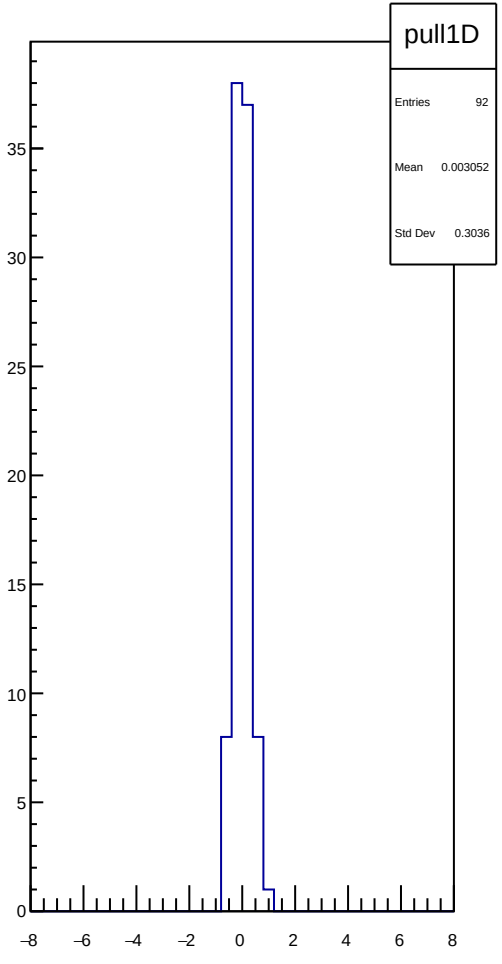

reg_asym_us_avg_atlr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 17.08 / 91
p0 −189.4 ± 0.3924
pull
Entries 92
Mean −300
Std Dev 0
pull1D
Entries 92
Mean −0.01223
Std Dev 0.4307

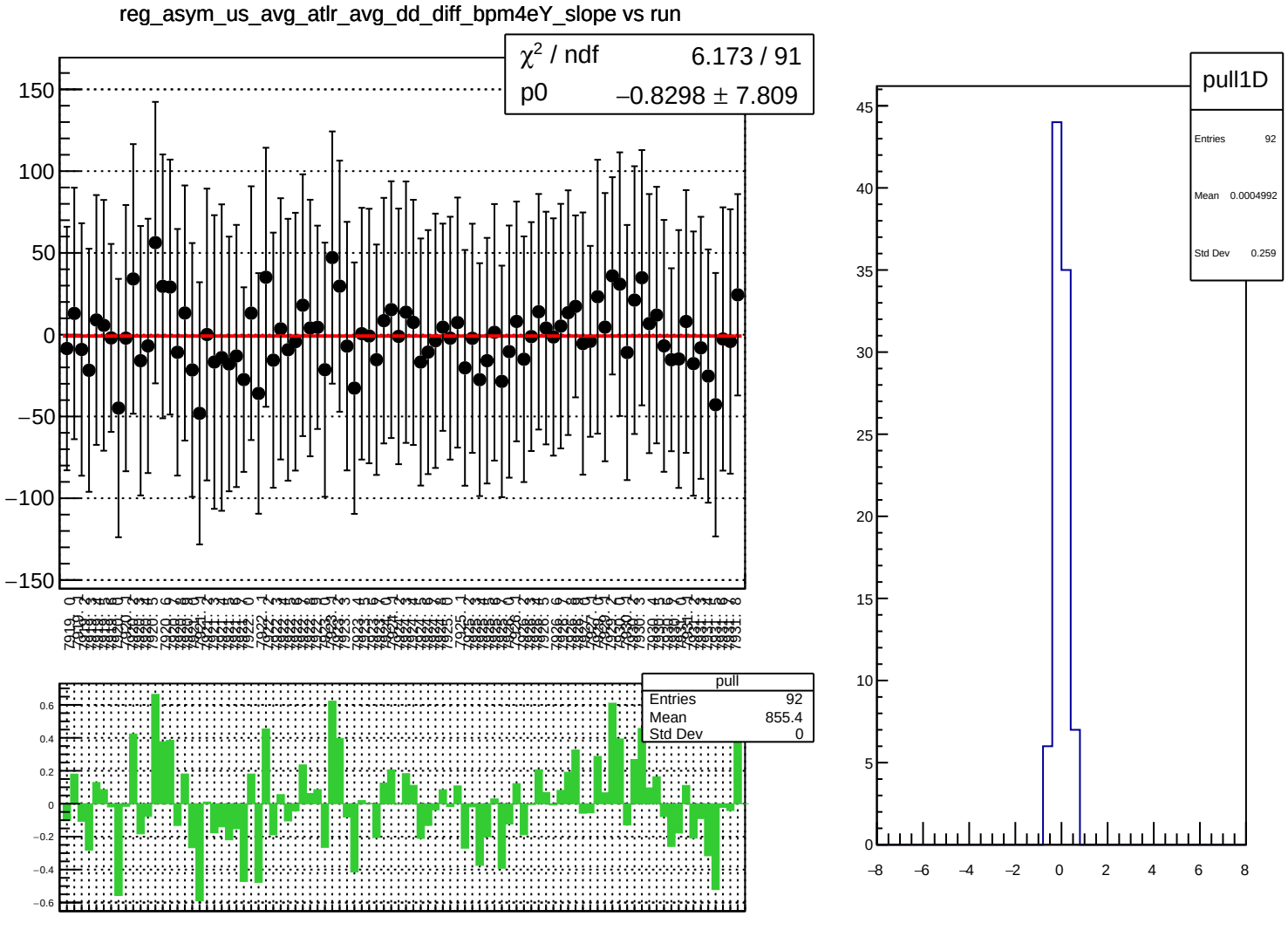

reg_asym_us_avg_atlr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 8.438 / 91
p0 110.3 ± 6.586
pull
Entries 92
Mean 111.2
Std Dev 78.1
pull1D
Entries 92
Mean −0.002941
Std Dev 0.3028

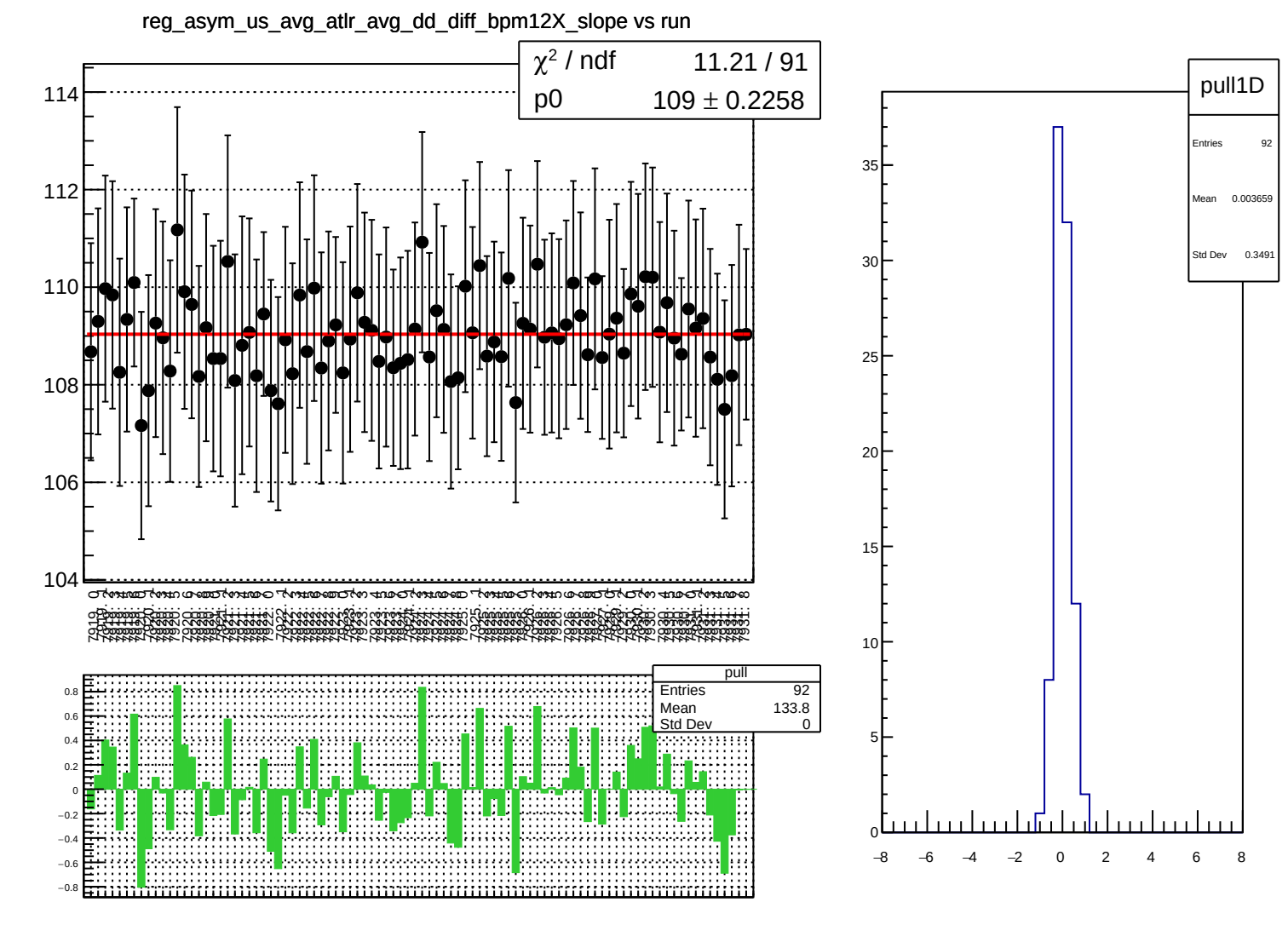

reg_asym_us_avg_atlr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.059 / 91
p0 −33.54 ± 6.792
pull
Entries 92
Mean 2386
Std Dev 0

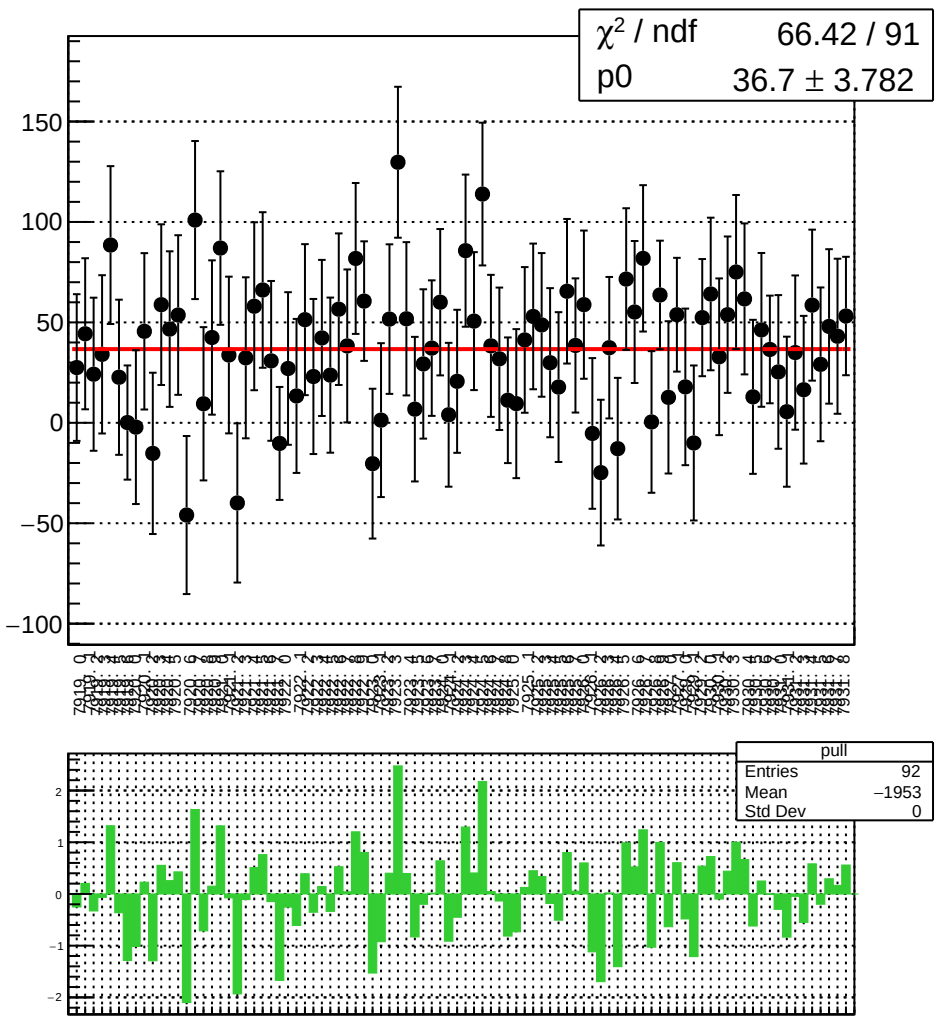

pull1D
Entries 92
Mean −0.0002476
Std Dev 0.2566

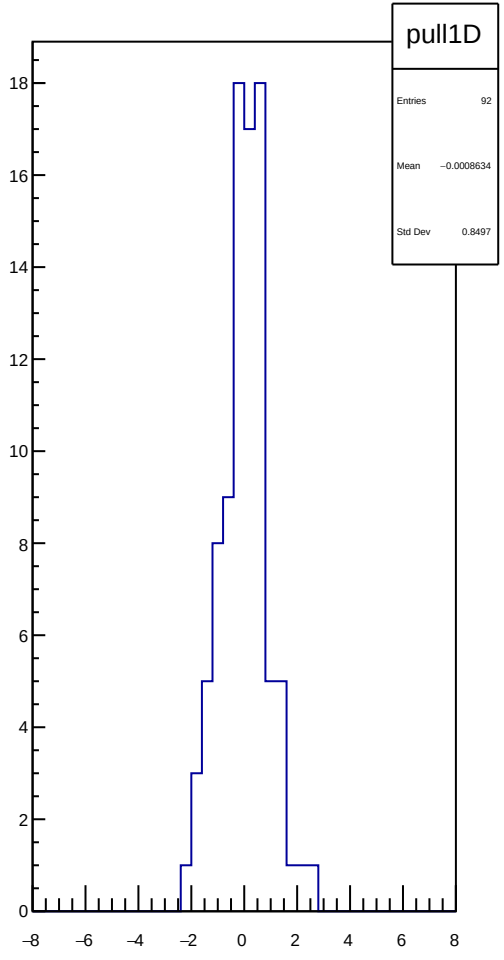

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.479 / 91
p0 −103.1 ± 5.891
pull
Entries 92
Mean 121.2
Std Dev 65.13

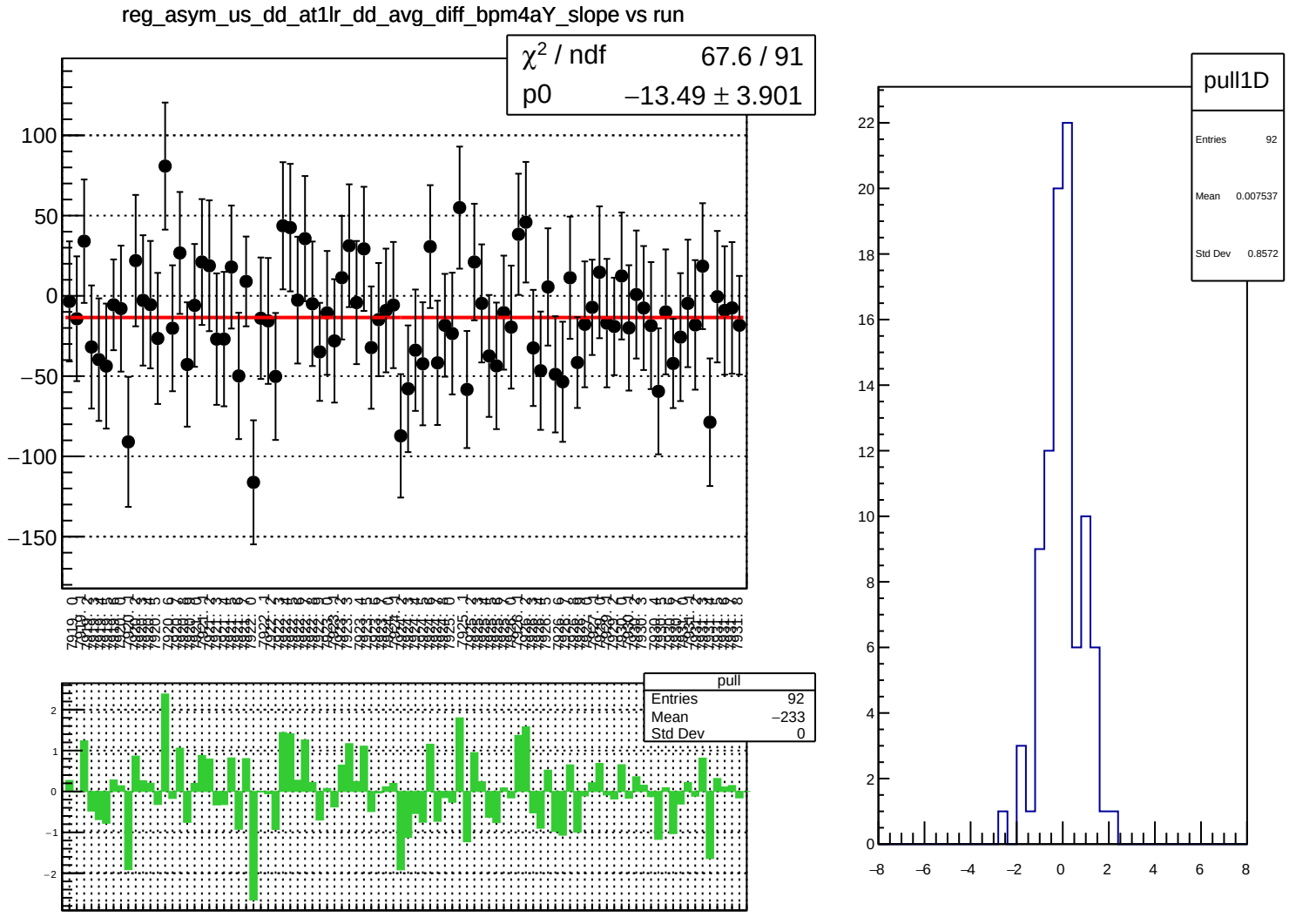

pull1D
Entries 92
Mean 0.003052
Std Dev 0.3036

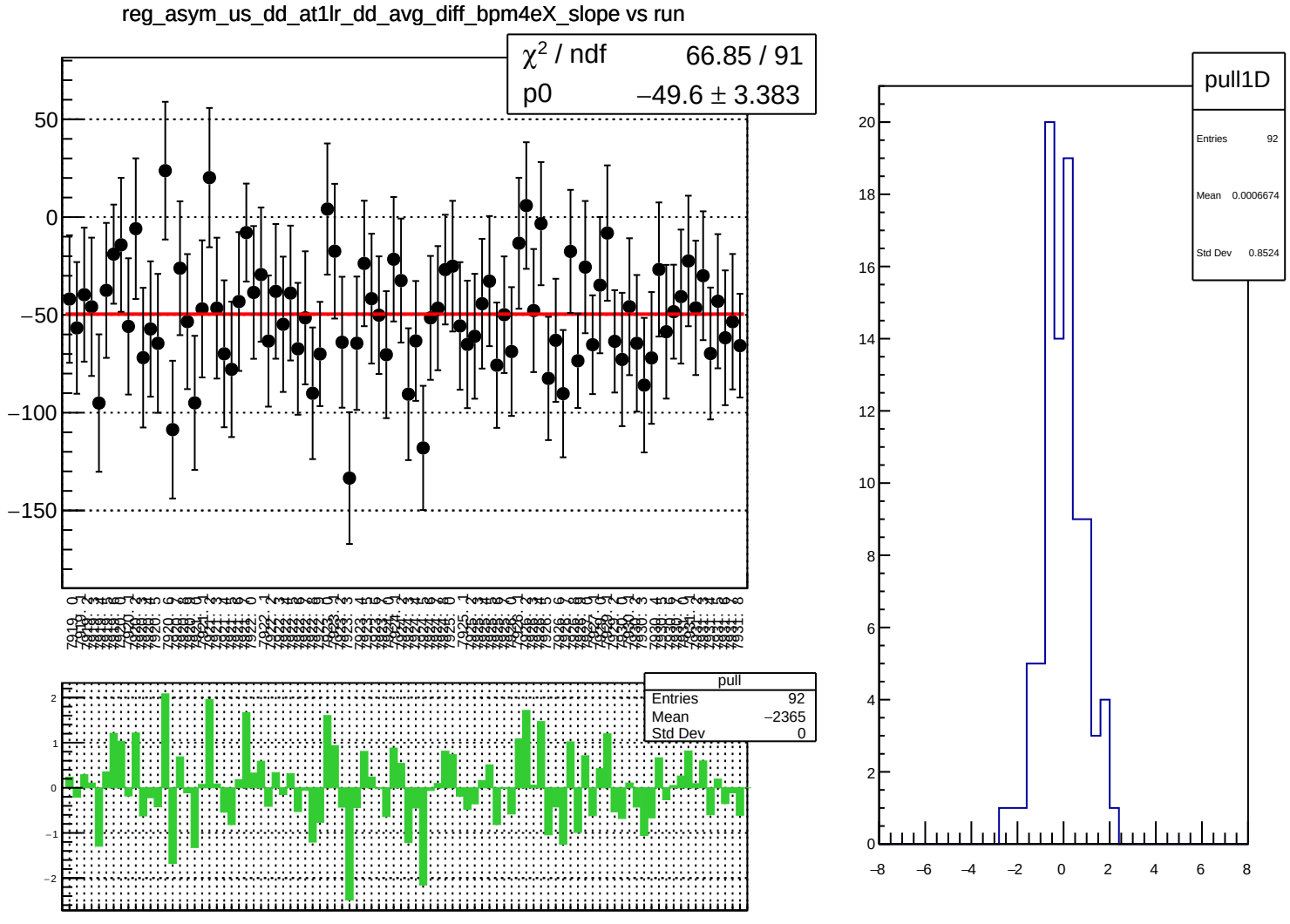

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.173 / 91
p0 −0.8298 ± 7.809
pull
Entries 92
Mean 855.4
Std Dev 0
pull1D
Entries 92
Mean 0.0004992
Std Dev 0.259

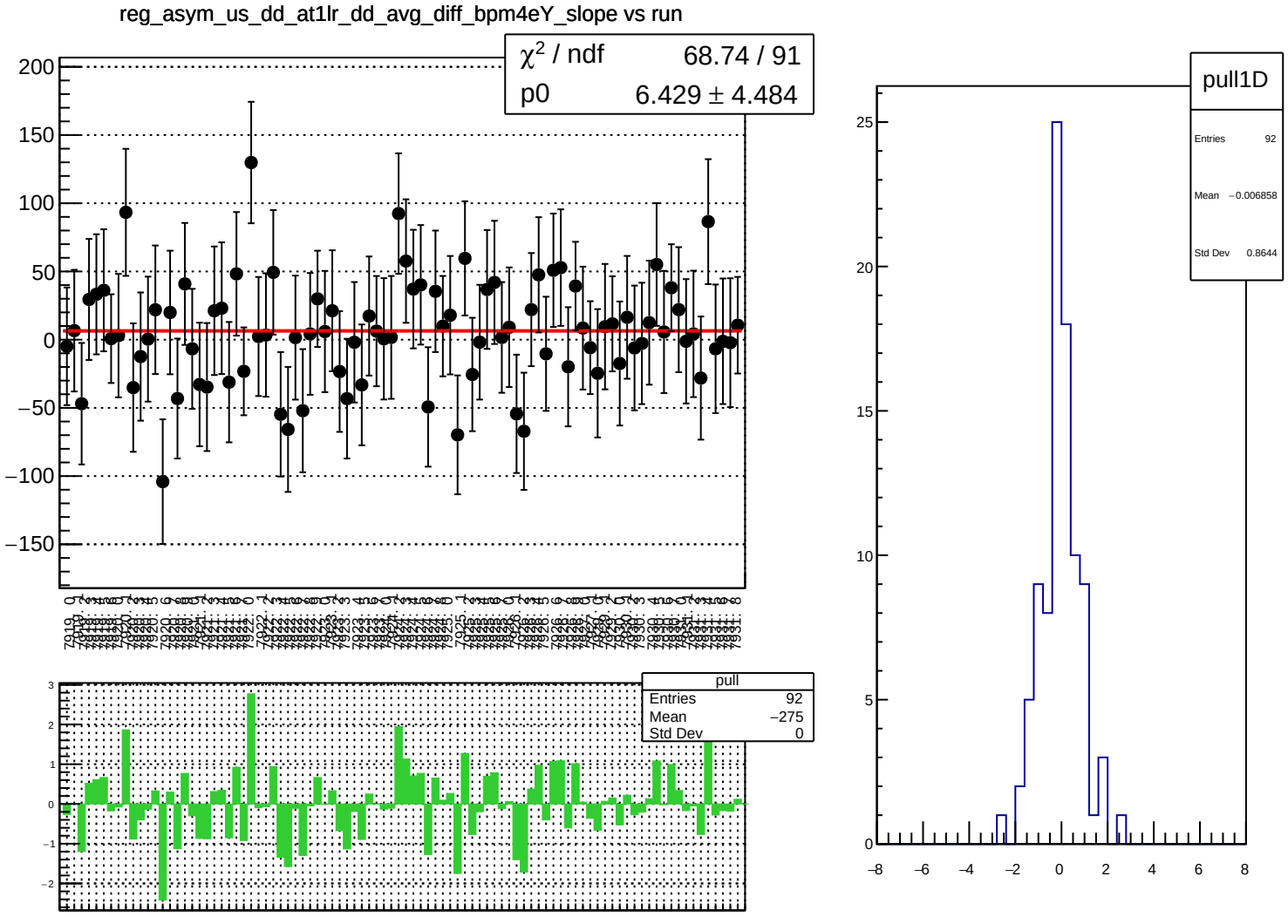

reg_asym_us_avg_atlr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 11.21 / 91
p0 109 ± 0.2258
pull
Entries 92
Mean 133.8
Std Dev 0
pull1D
Entries 92
Mean 0.003659
Std Dev 0.3491

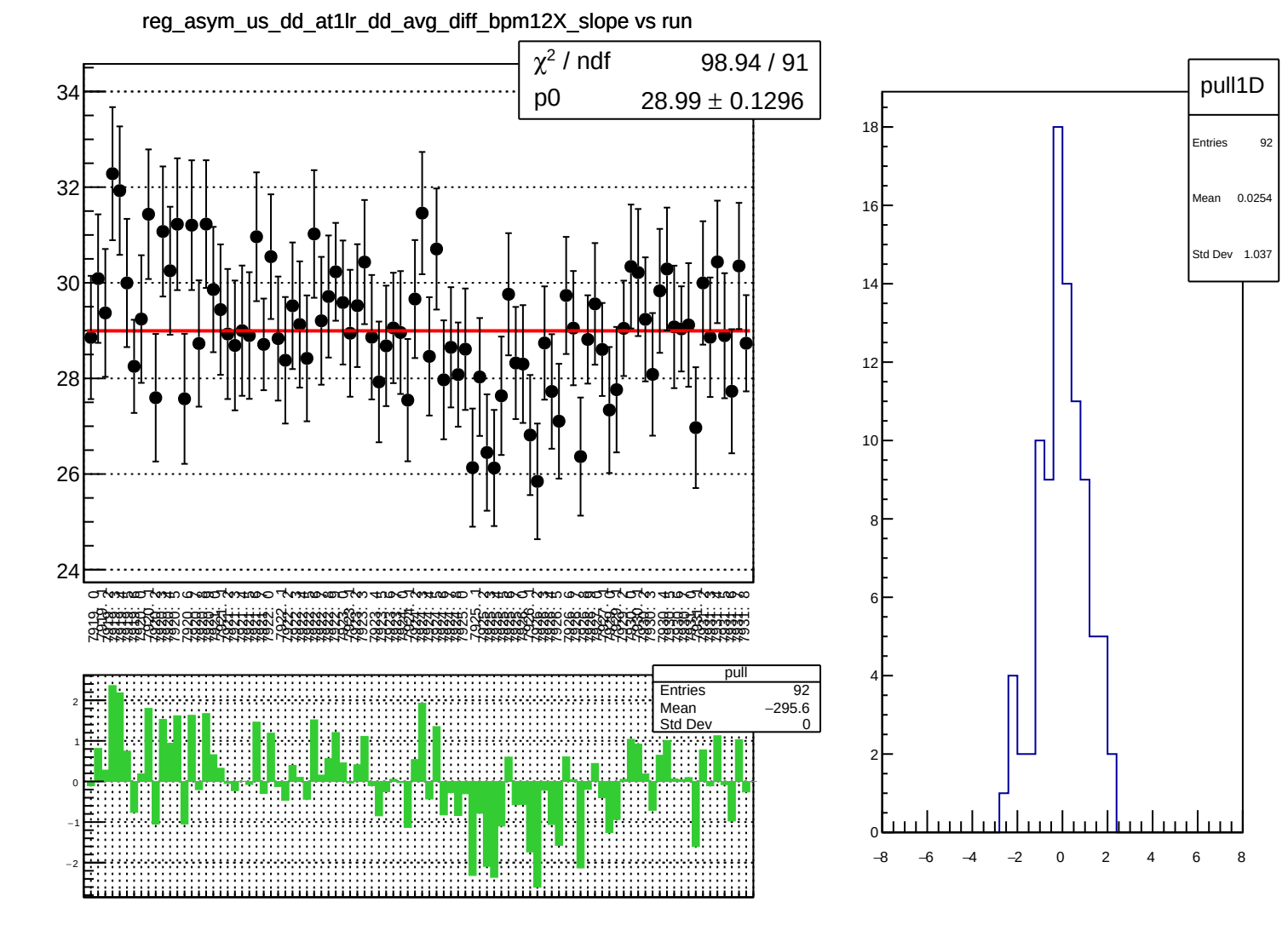

reg_asym_us_dd_at1lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 66.42 / 91
p0 36.7 ± 3.782
150
100
50
0
−50
−100
pull
Entries 92
Mean −1953
Std Dev 0
2
1
0
−1
−2

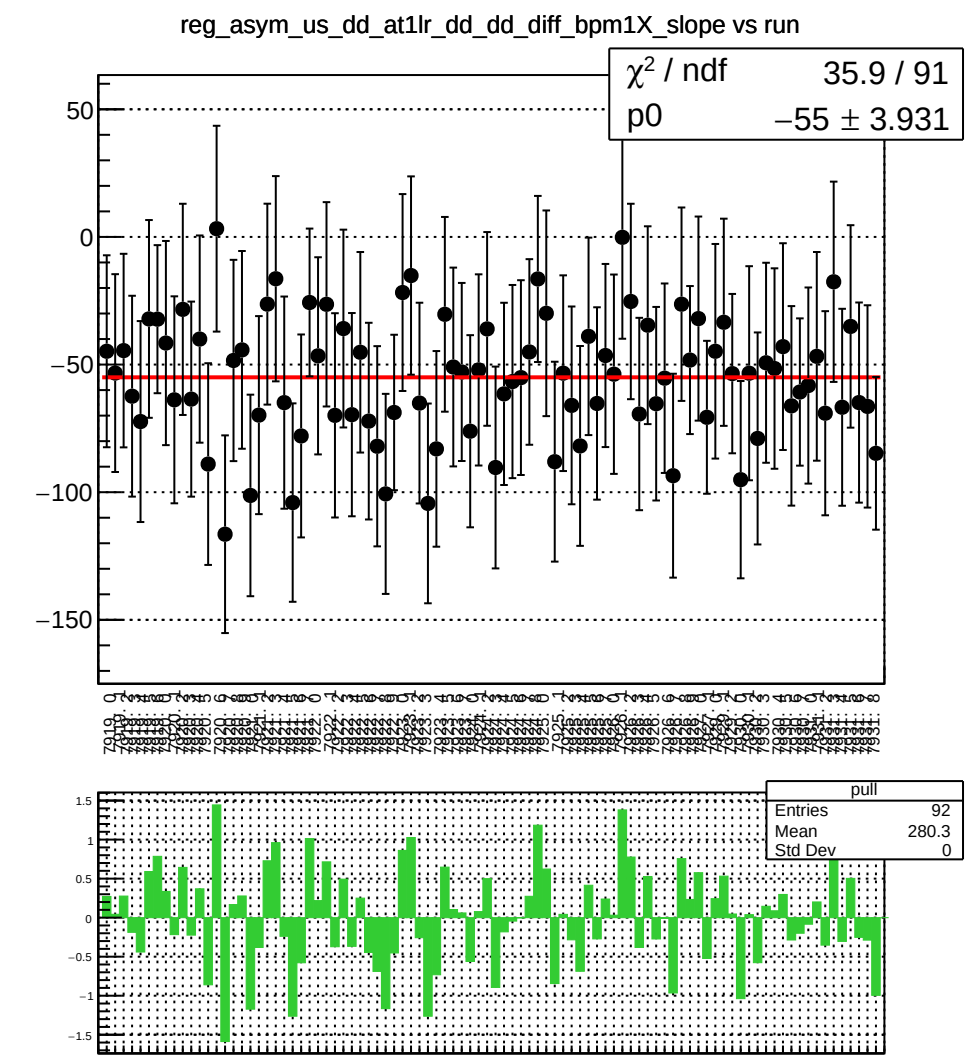

pull1D
Entries 92
Mean −0.0008634
Std Dev 0.8497
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

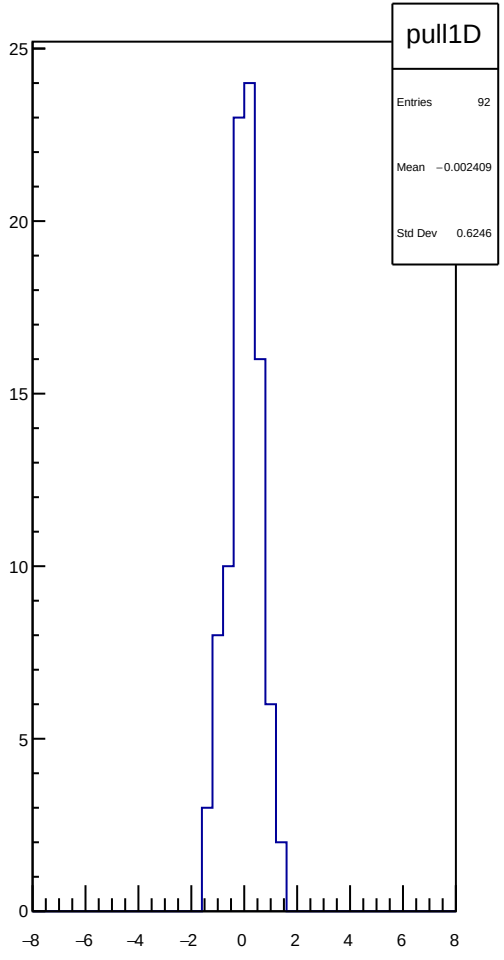

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 67.6 / 91
p0 −13.49 ± 3.901
100
50
0
−50
−100
−150
pull
Entries 92
Mean −233
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.007537
Std Dev 0.8572
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

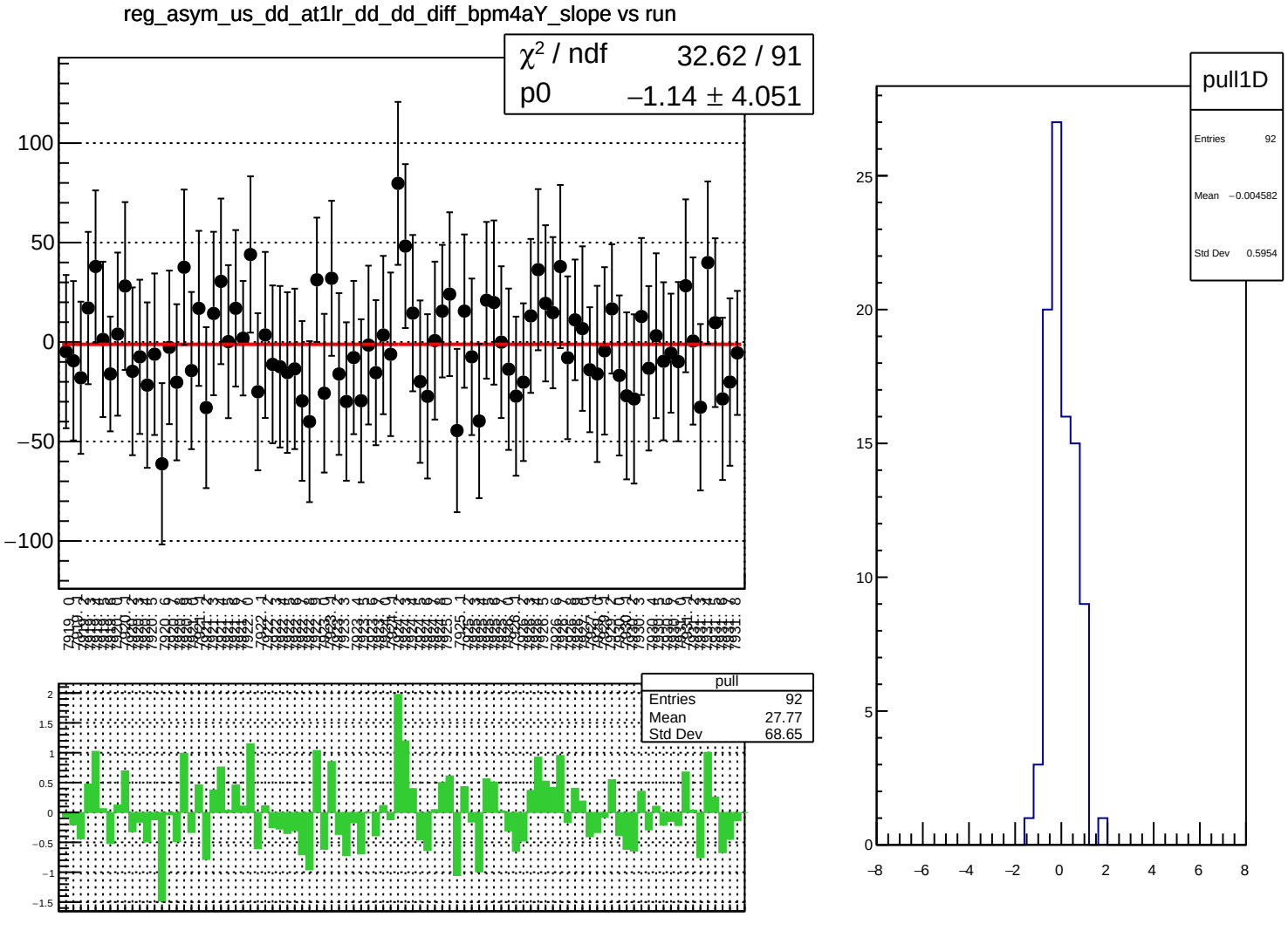

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 66.85 / 91
p0 −49.6 ± 3.383
pull
Entries 92
Mean −2365
Std Dev 0
pull1D
Entries 92
Mean 0.0006674
Std Dev 0.8524

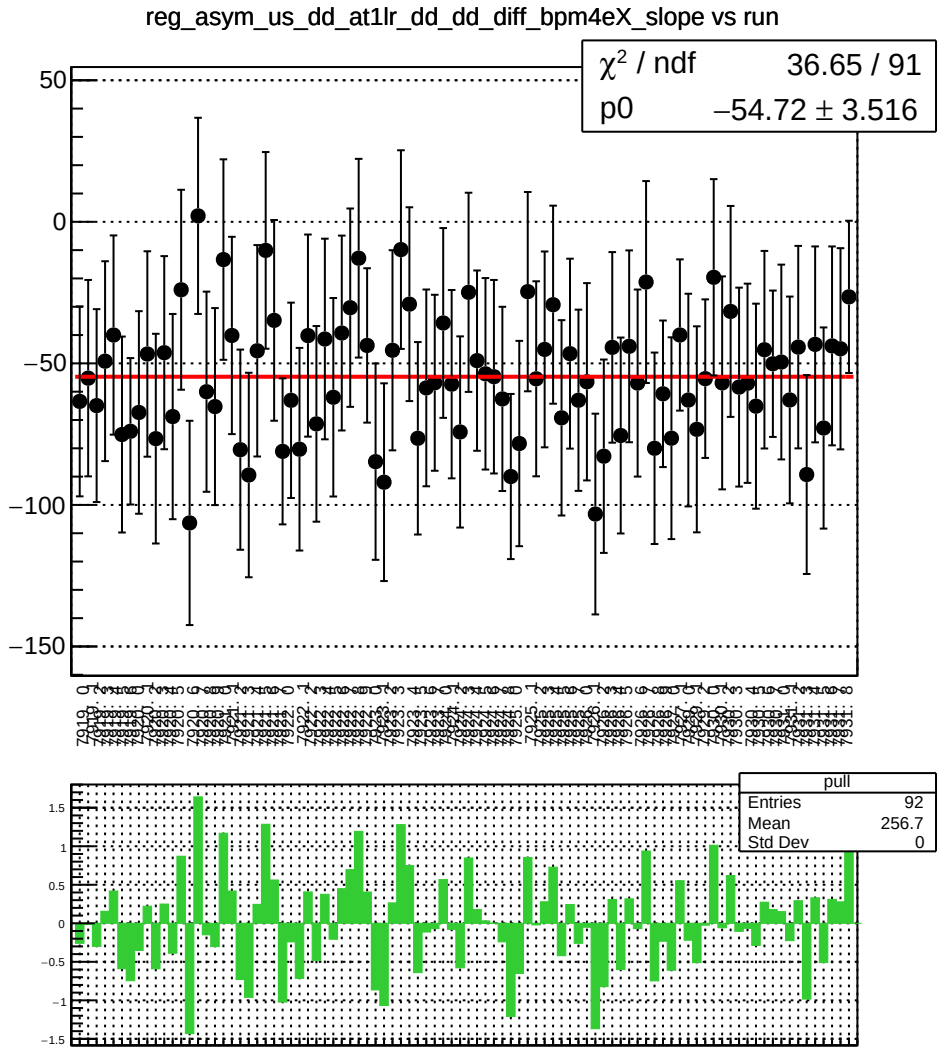

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 68.74 / 91
p0 6.429 ± 4.484
pull
Entries 92
Mean −275
Std Dev 0
pull1D
Entries 92
Mean −0.006858
Std Dev 0.8644

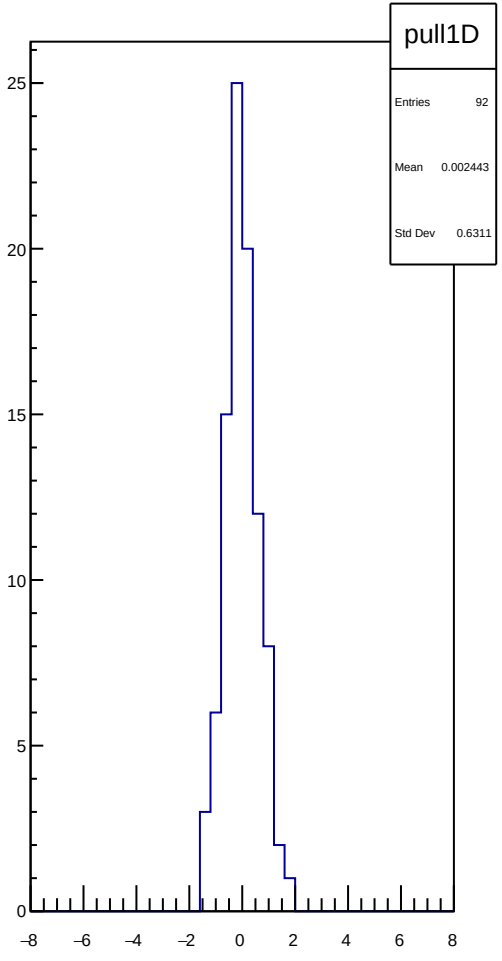

reg_asym_us_dd_at1lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 98.94 / 91
p0 28.99 ± 0.1296
pull
Entries 92
Mean −295.6
Std Dev 0
pull1D
Entries 92
Mean 0.0254
Std Dev 1.037

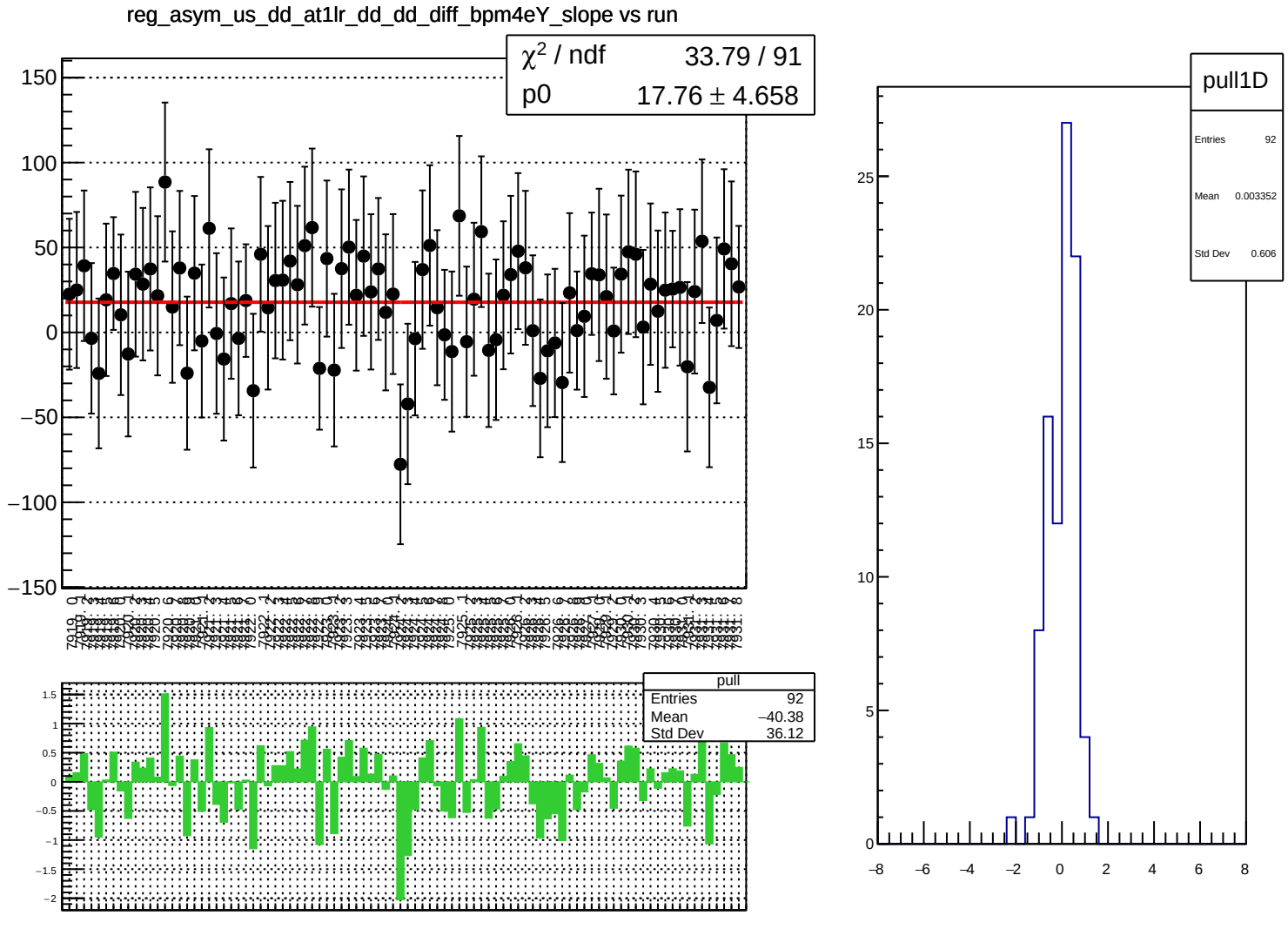

reg_asym_us_dd_at1lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 35.9 / 91
p0 −55 ± 3.931
50
0
−50
−100
−150
pull
Entries 92
Mean 280.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

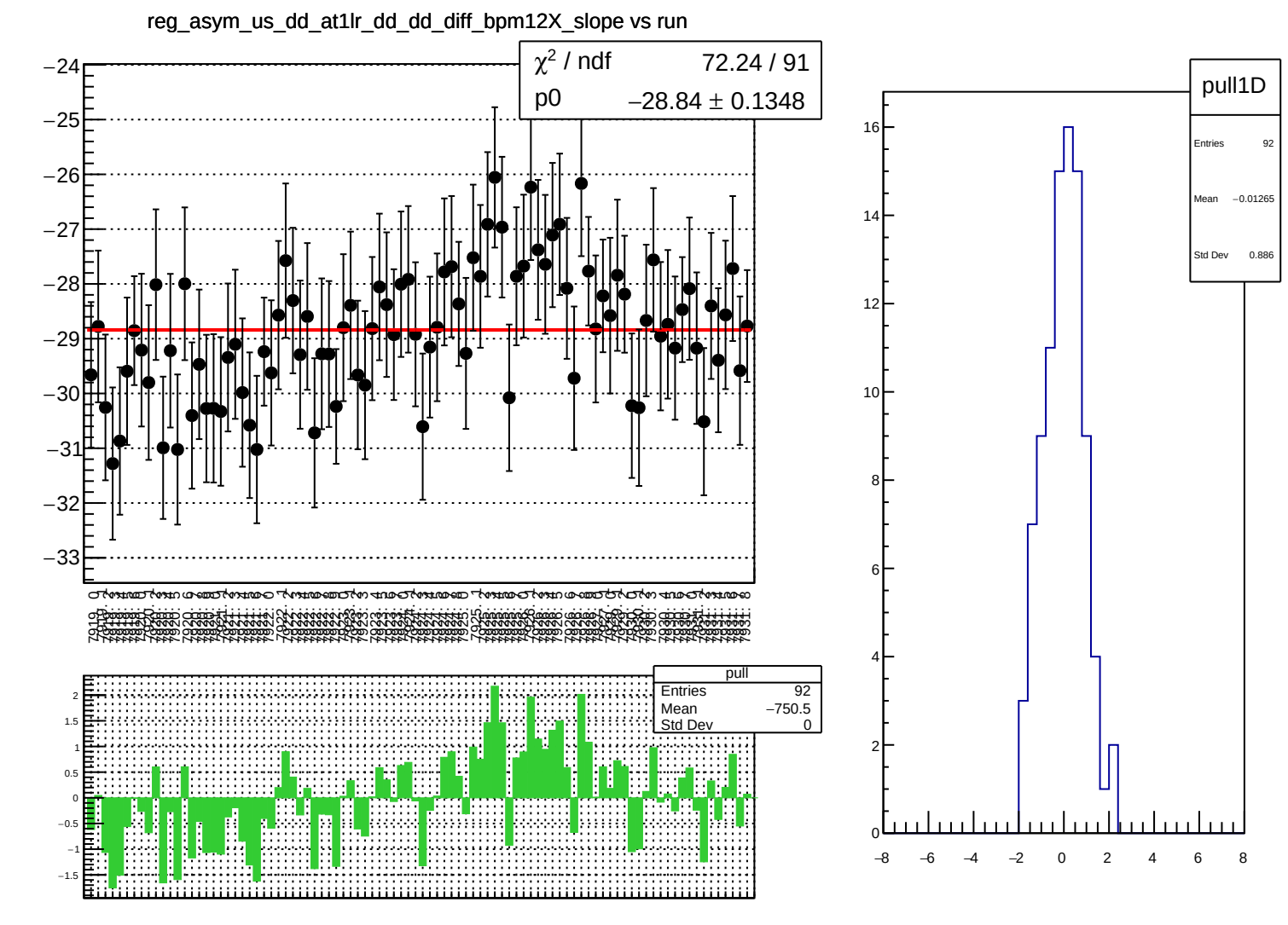

pull1D
Entries 92
Mean −0.002409
Std Dev 0.6246
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

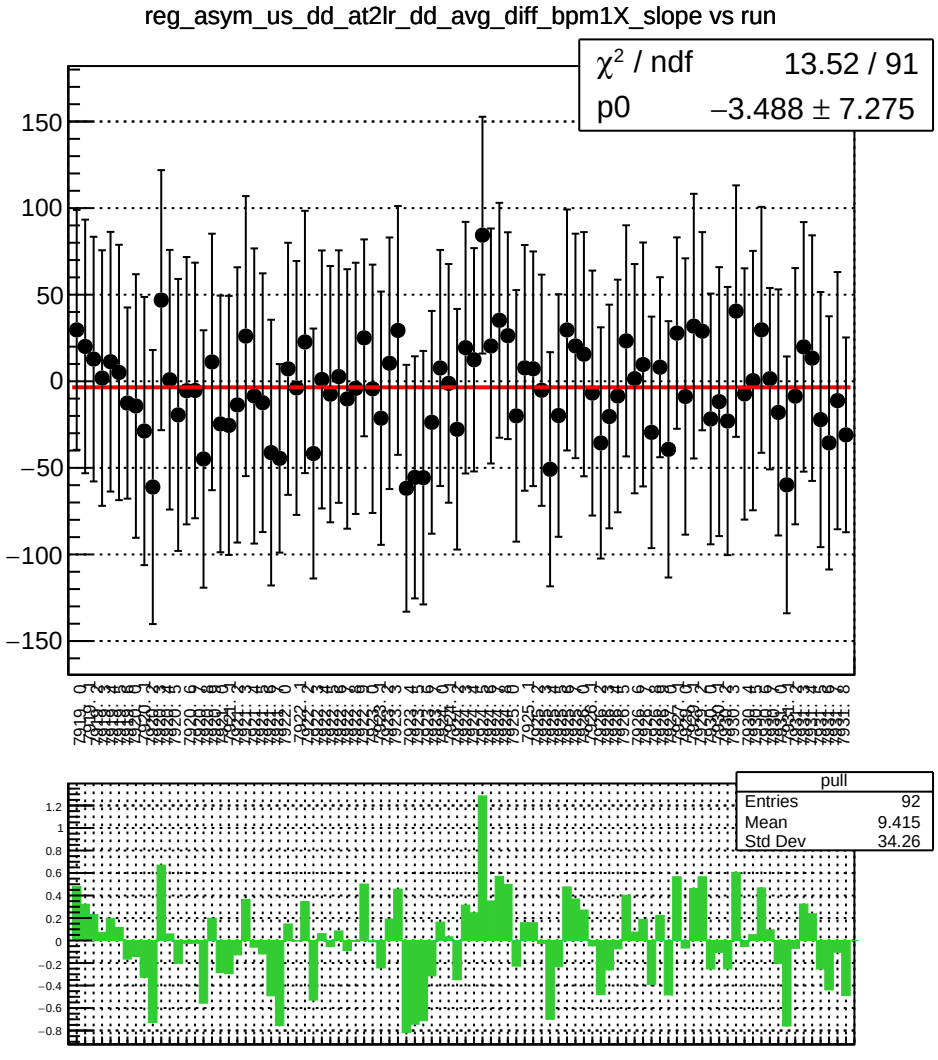

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 32.62 / 91
p0 −1.14 ± 4.051
pull
Entries 92
Mean 27.77
Std Dev 68.65
pull1D
Entries 92
Mean −0.004582
Std Dev 0.5954

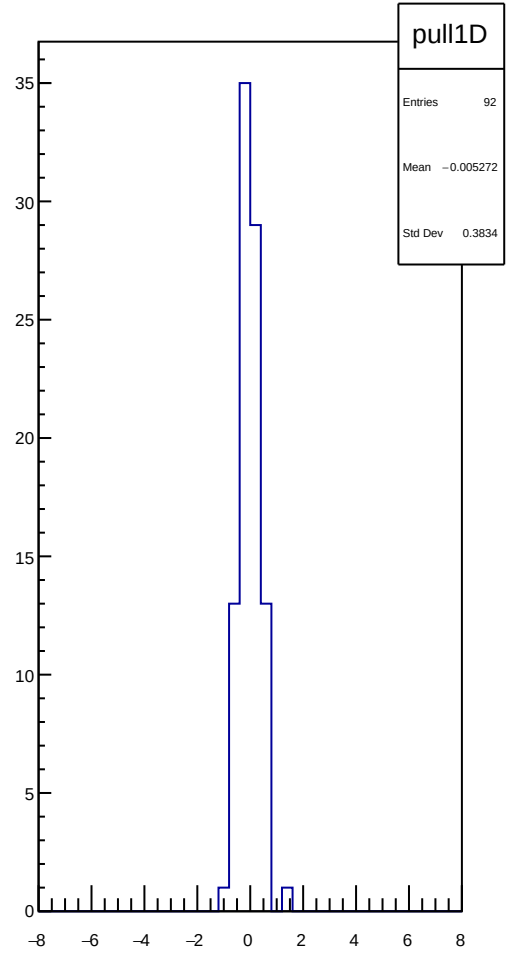

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 36.65 / 91
p0 −54.72 ± 3.516
pull
Entries 92
Mean 256.7
Std Dev 0

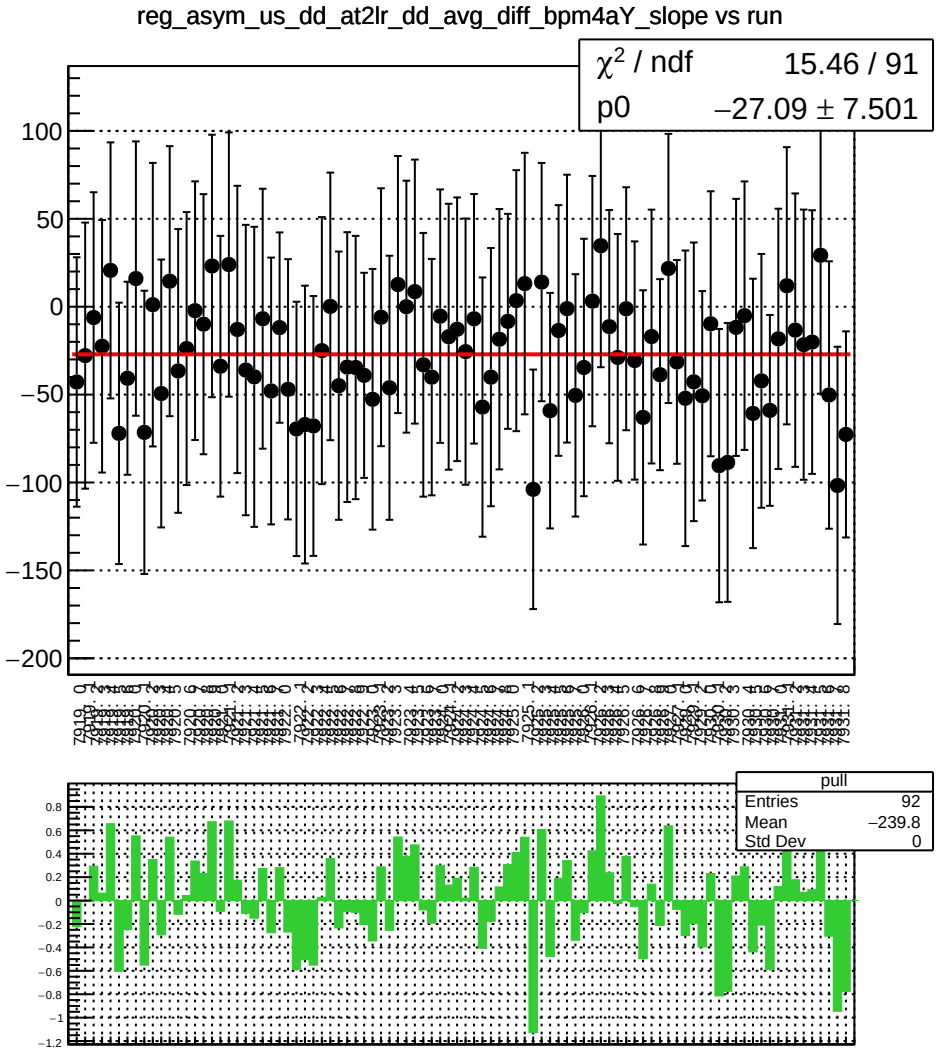

pull1D
Entries 92
Mean 0.002443
Std Dev 0.6311

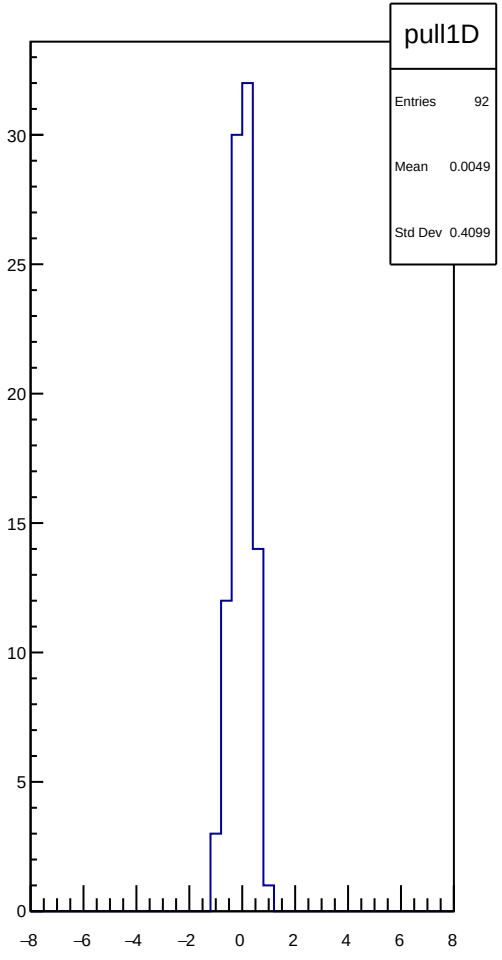

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 33.79 / 91
p0 17.76 ± 4.658
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean −40.38
Std Dev 36.12
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean 0.003352
Std Dev 0.606
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

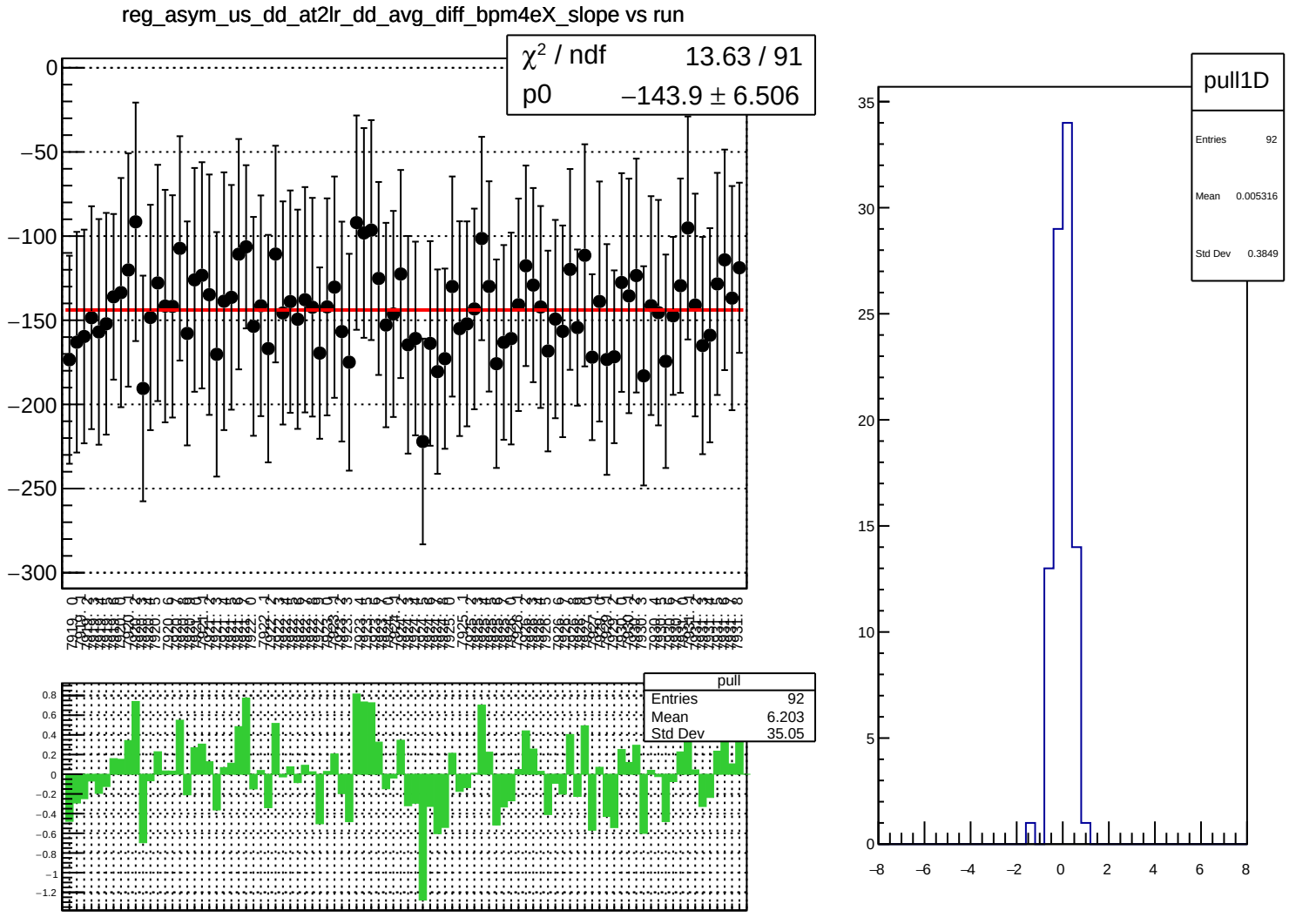

reg_asym_us_dd_at1lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 72.24 / 91
p0 −28.84 ± 0.1348
pull
Entries 92
Mean −750.5
Std Dev 0
pull1D
Entries 92
Mean −0.01265
Std Dev 0.886

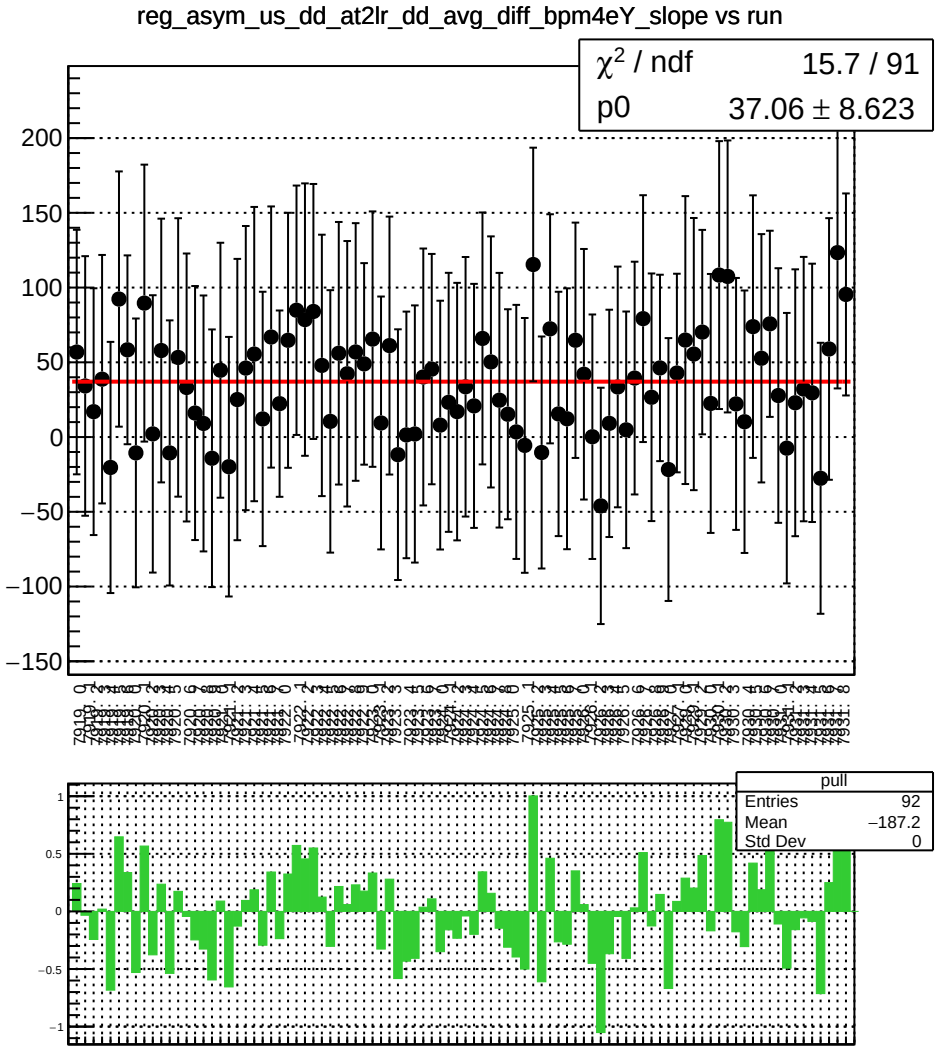

reg_asym_us_dd_at2lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 13.52 / 91
p0 −3.488 ± 7.275
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean 9.415
Std Dev 34.26
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

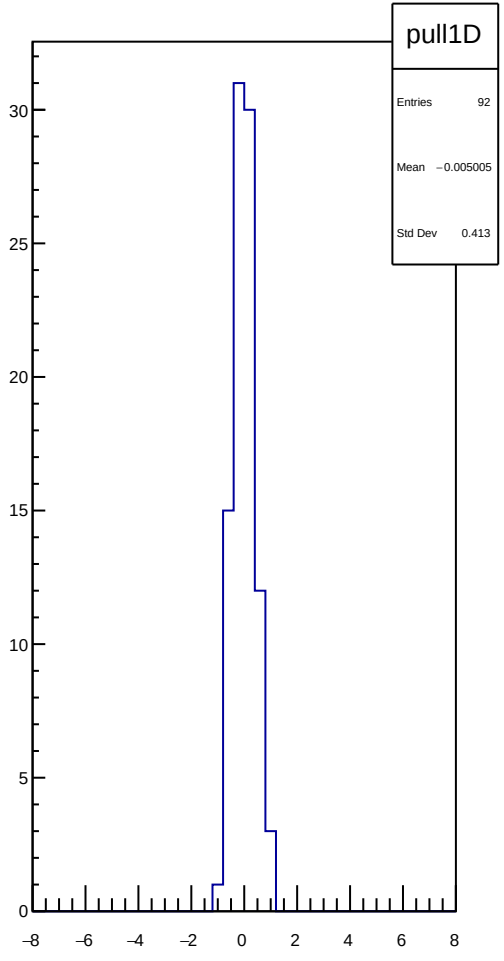

pull1D
Entries 92
Mean −0.005272
Std Dev 0.3834
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

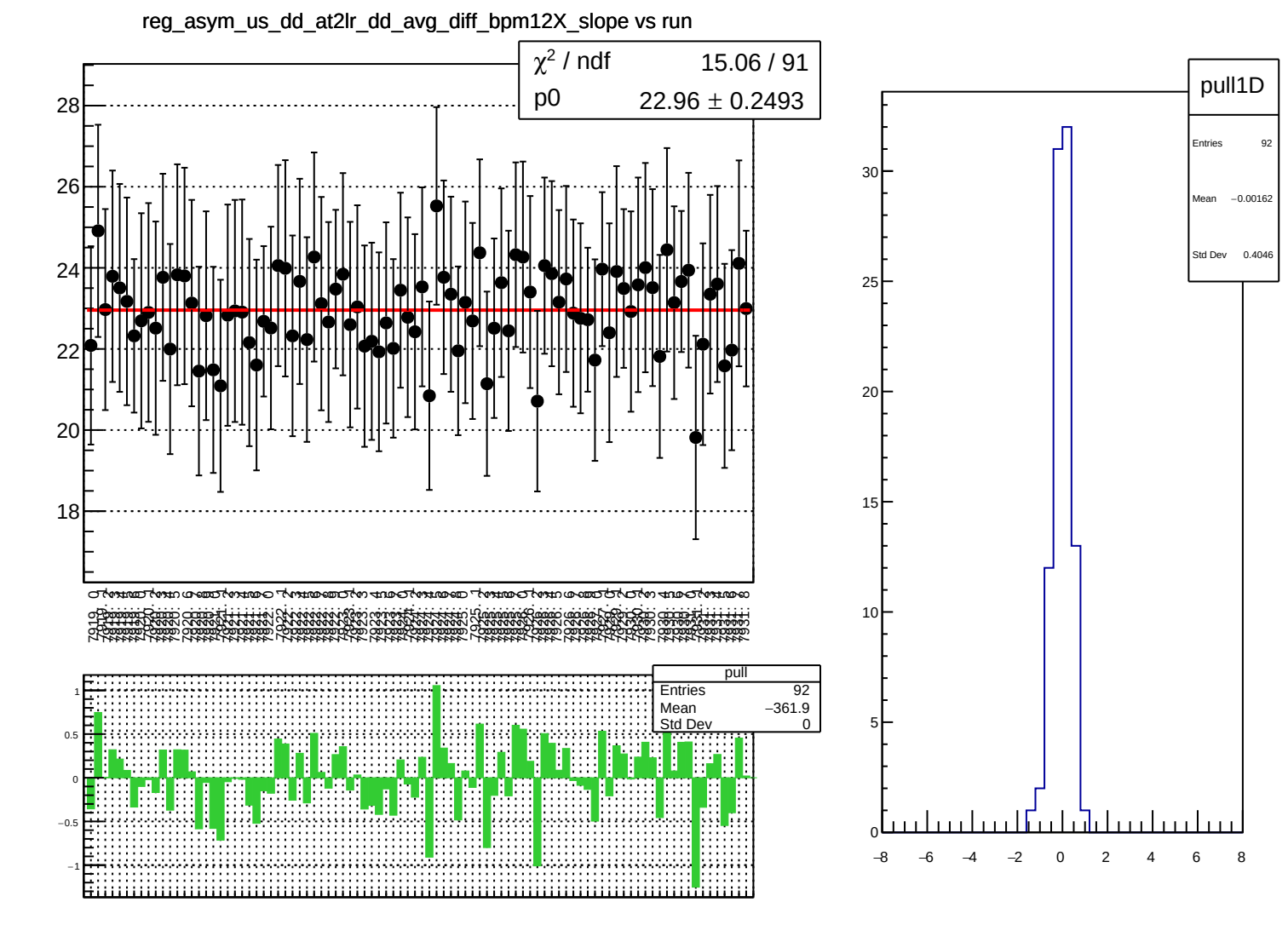

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 15.46 / 91
p0 −27.09 ± 7.501
pull
Entries 92
Mean −239.8
Std Dev 0

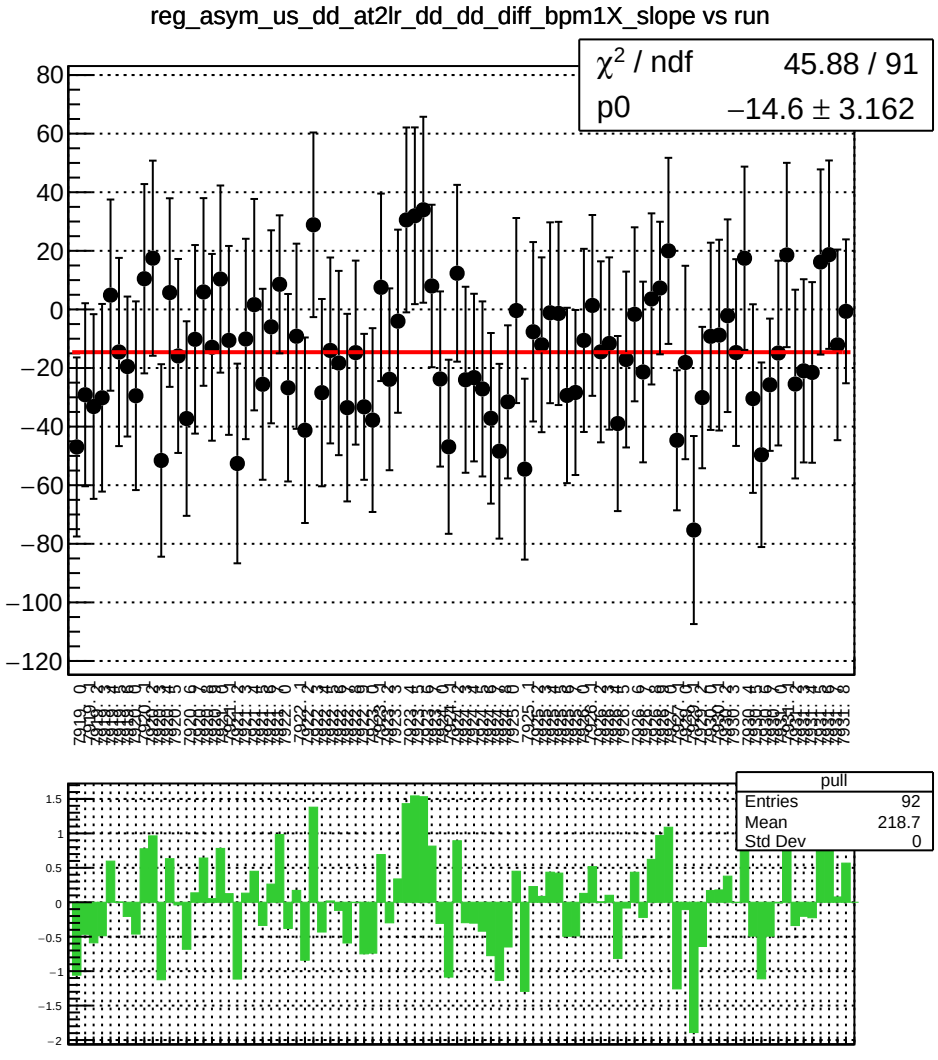

pull1D
Entries 92
Mean 0.0049
Std Dev 0.4099

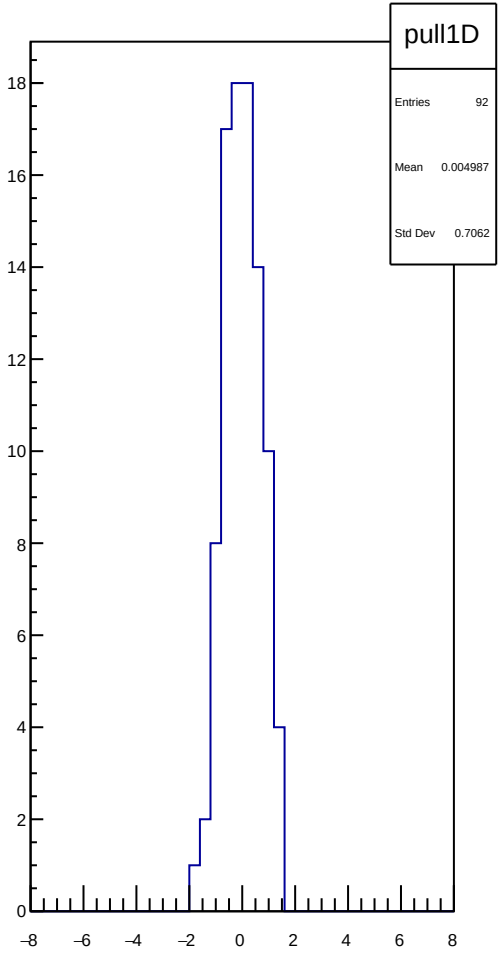

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 13.63 / 91
p0 −143.9 ± 6.506
pull
Entries 92
Mean 6.203
Std Dev 35.05
pull1D
Entries 92
Mean 0.005316
Std Dev 0.3849

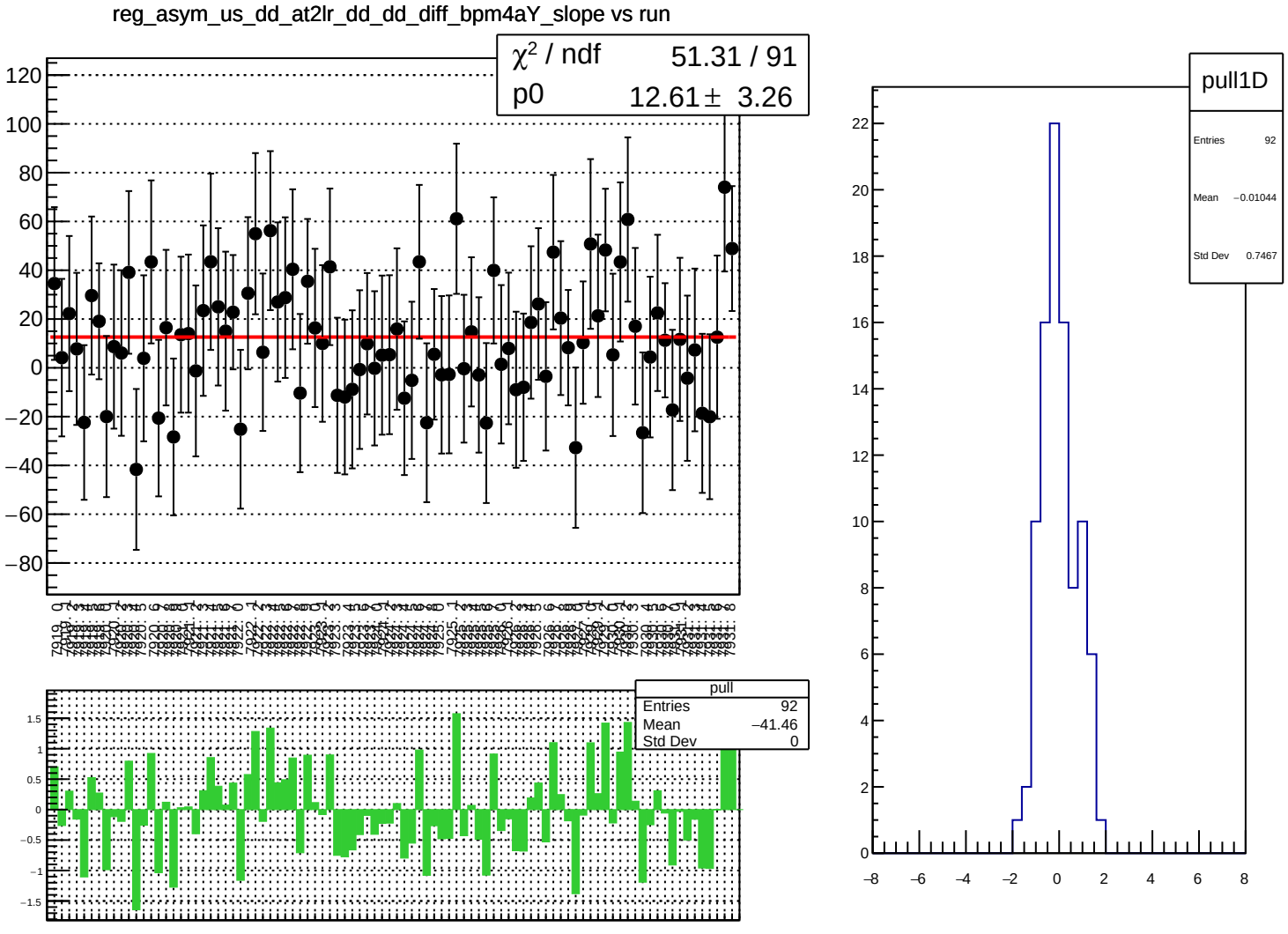

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 15.7 / 91
p0 37.06 ± 8.623
pull
Entries 92
Mean −187.2
Std Dev 0

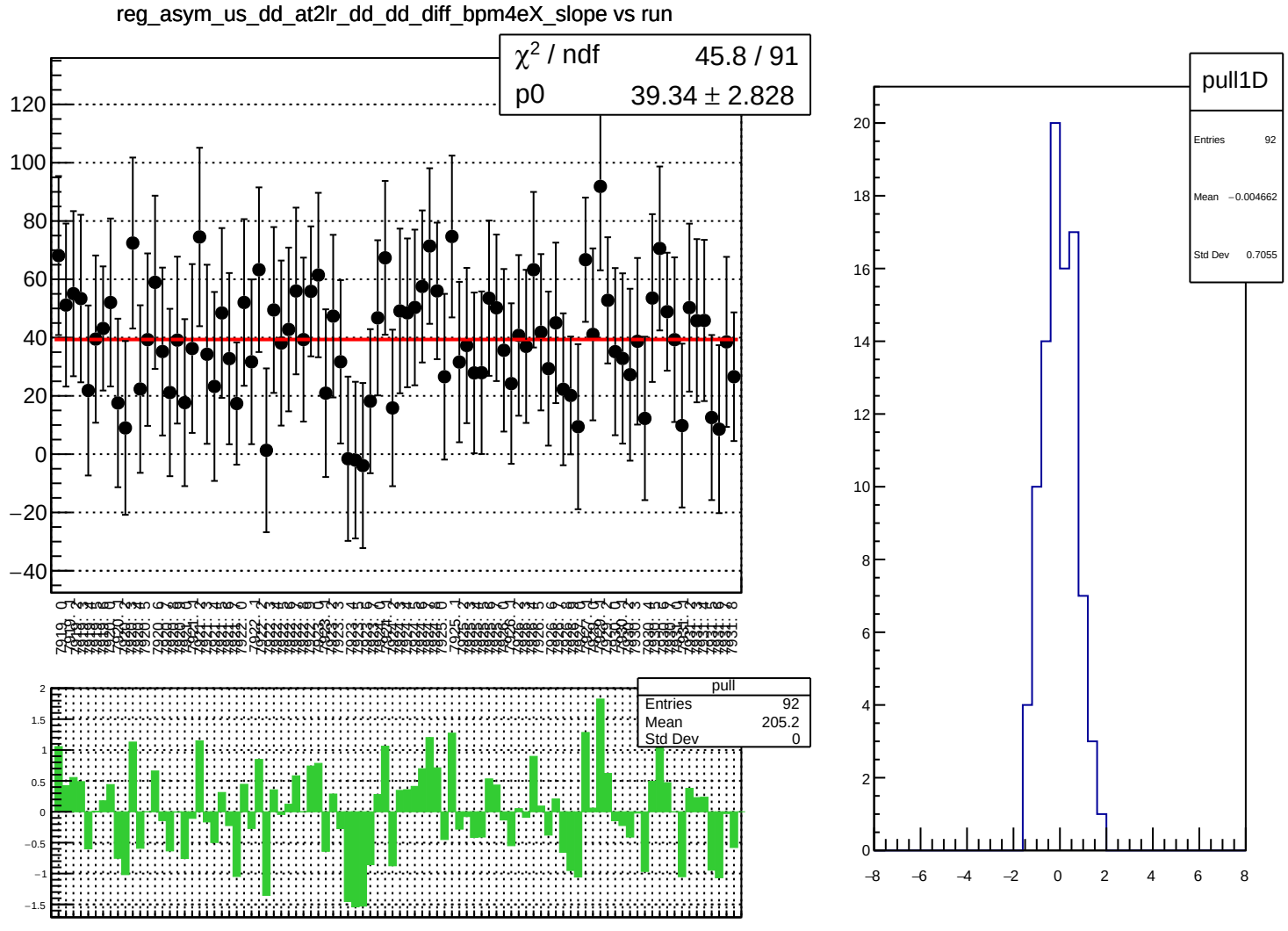

pull1D
Entries 92
Mean −0.005005
Std Dev 0.413

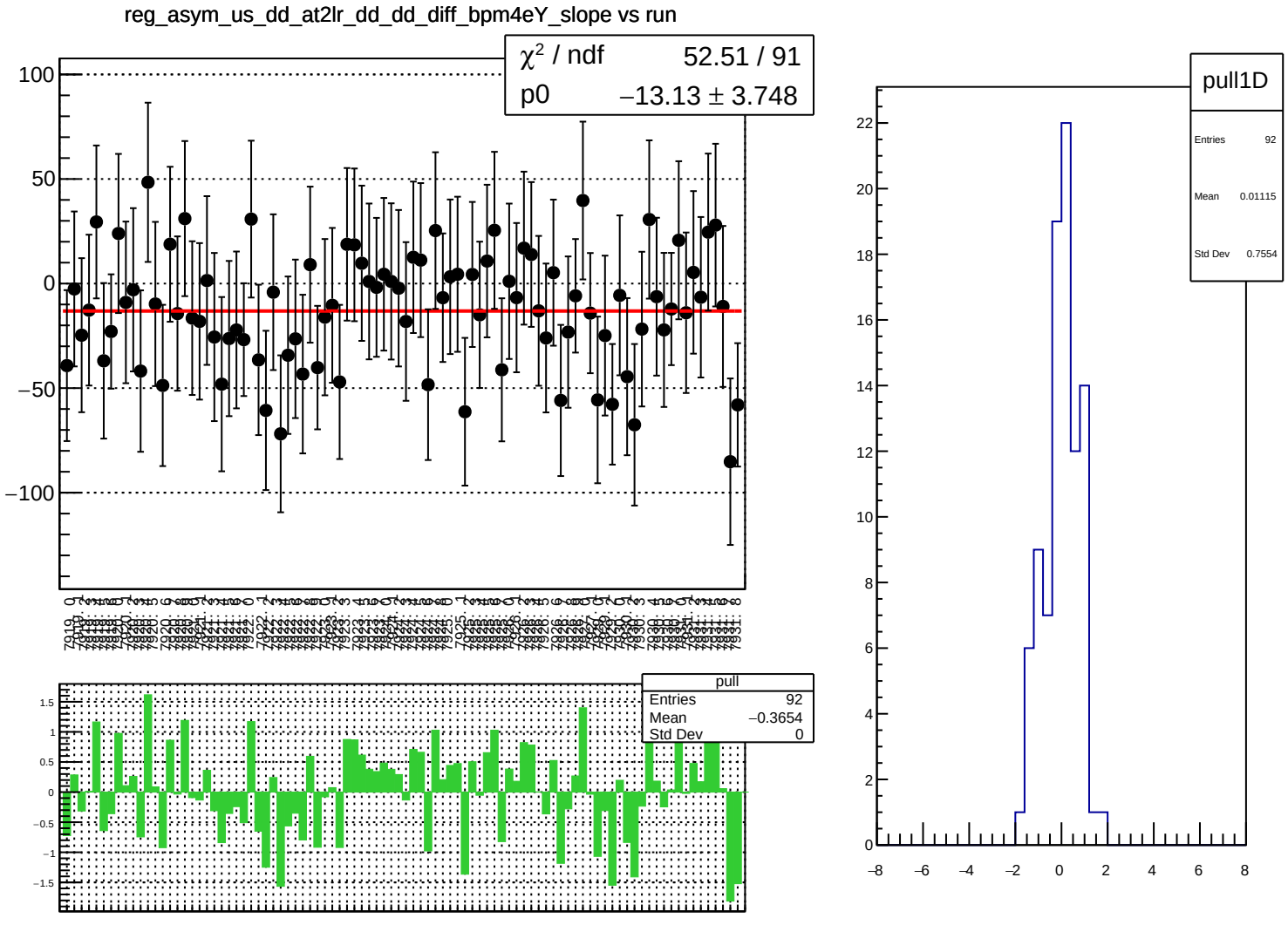

reg_asym_us_dd_at2lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 15.06 / 91
p0 22.96 ± 0.2493
28
26
24
22
20
18
pull
Entries 92
Mean −361.9
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 92
Mean −0.00162
Std Dev 0.4046
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

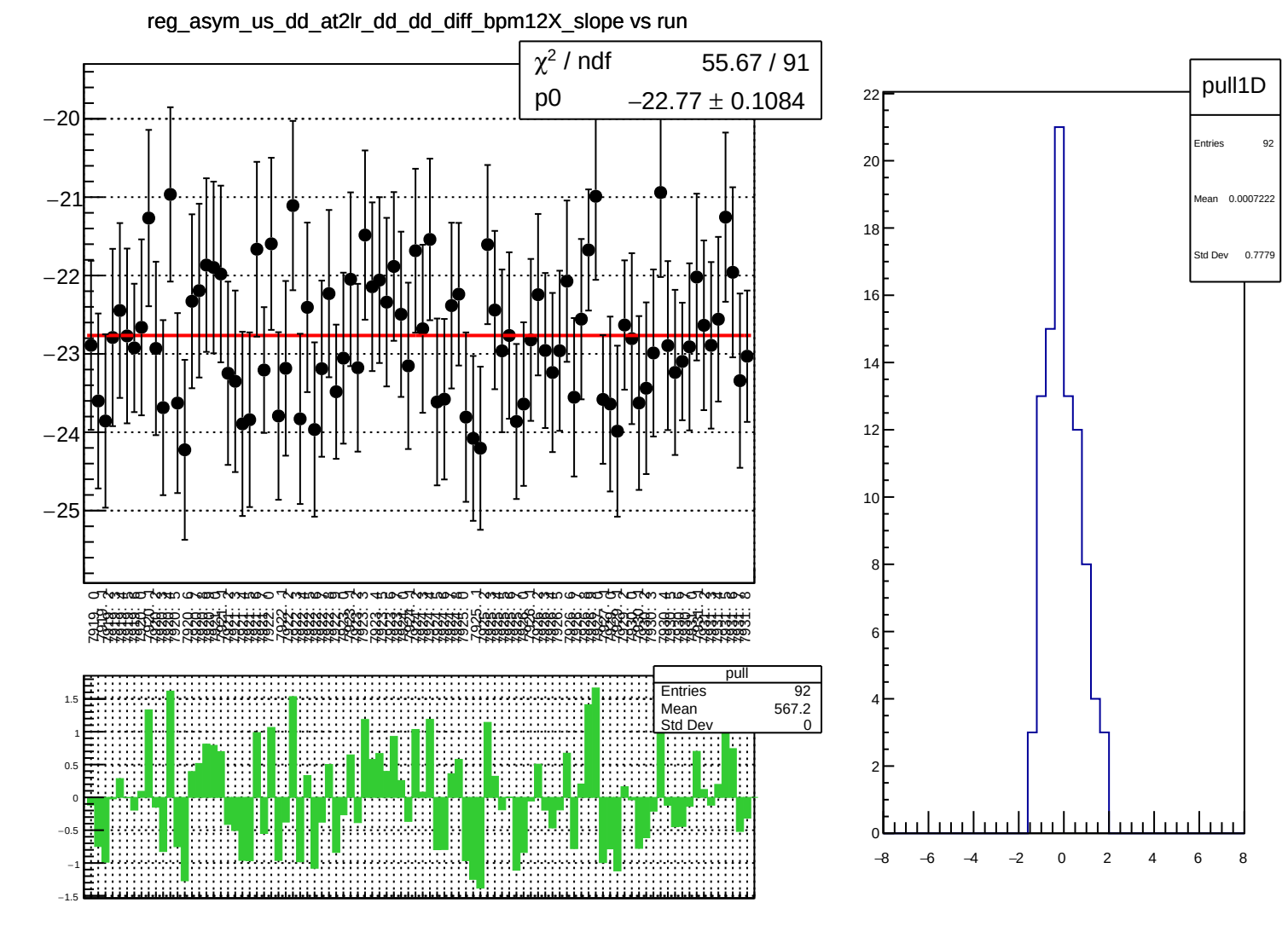

reg_asym_us_dd_at2lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 45.88 / 91
p0 −14.6 ± 3.162
pull
Entries 92
Mean 218.7
Std Dev 0

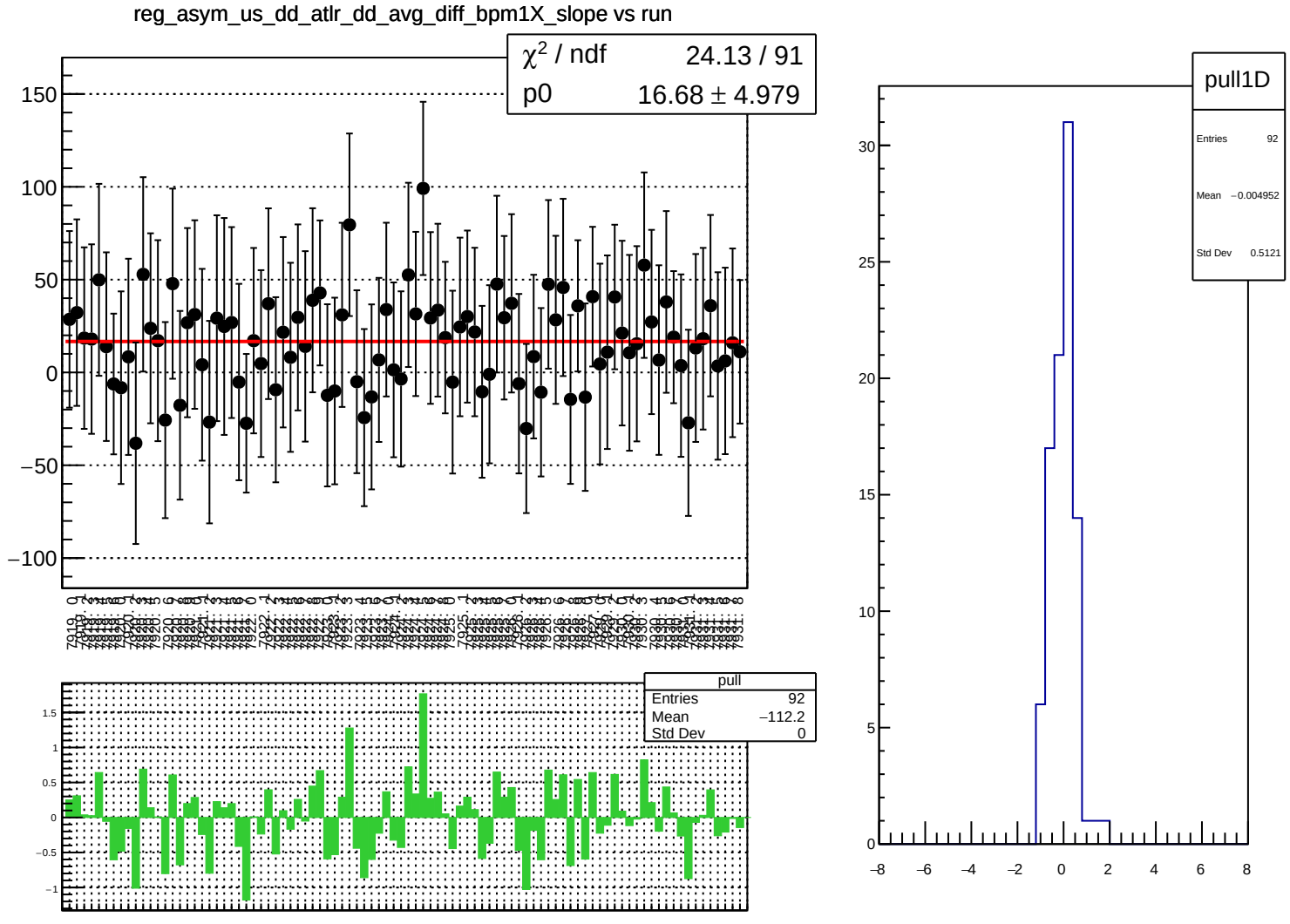

pull1D
Entries 92
Mean 0.004987
Std Dev 0.7062

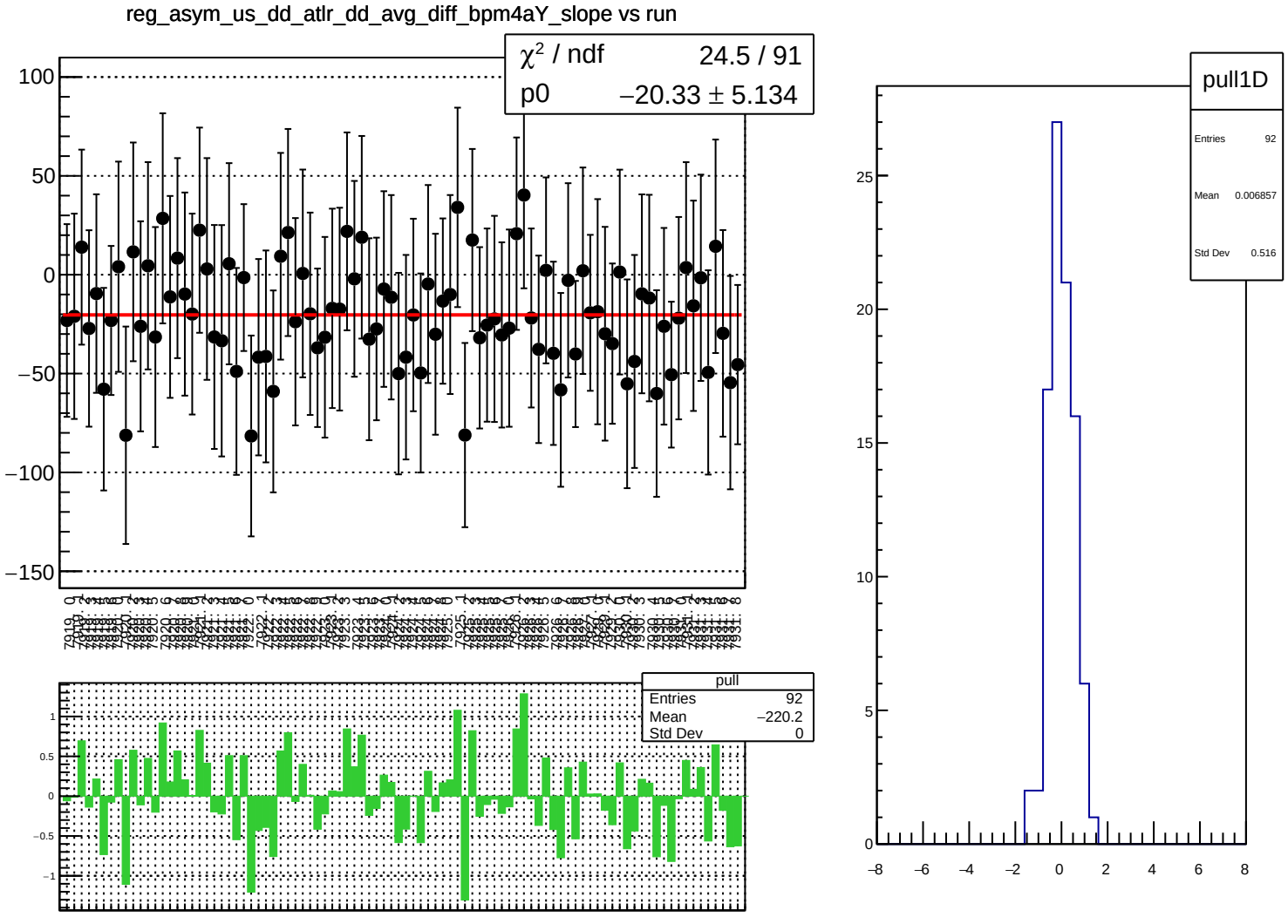

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 51.31 / 91
p0 12.61 ± 3.26
pull
Entries 92
Mean −41.46
Std Dev 0
pull1D
Entries 92
Mean −0.01044
Std Dev 0.7467

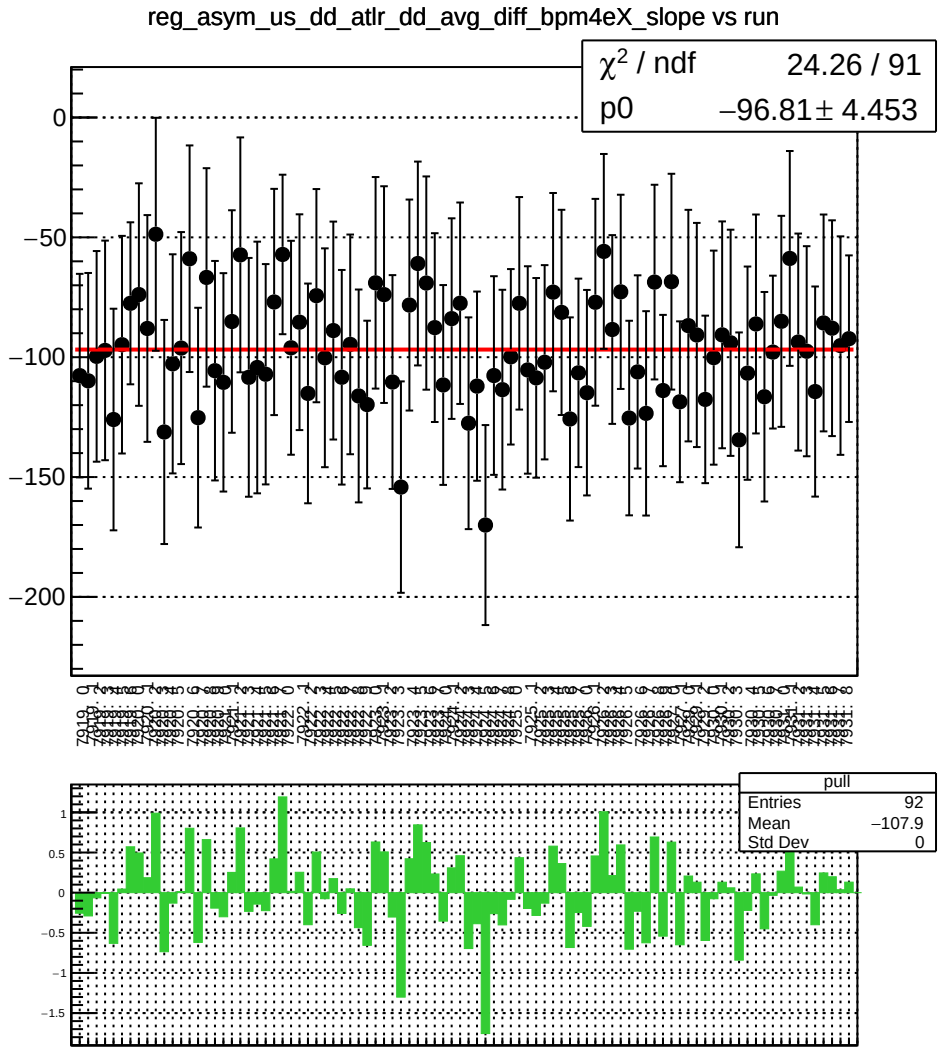

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 45.8 / 91
p0 39.34 ± 2.828
pull
Entries 92
Mean 205.2
Std Dev 0
pull1D
Entries 92
Mean −0.004662
Std Dev 0.7055

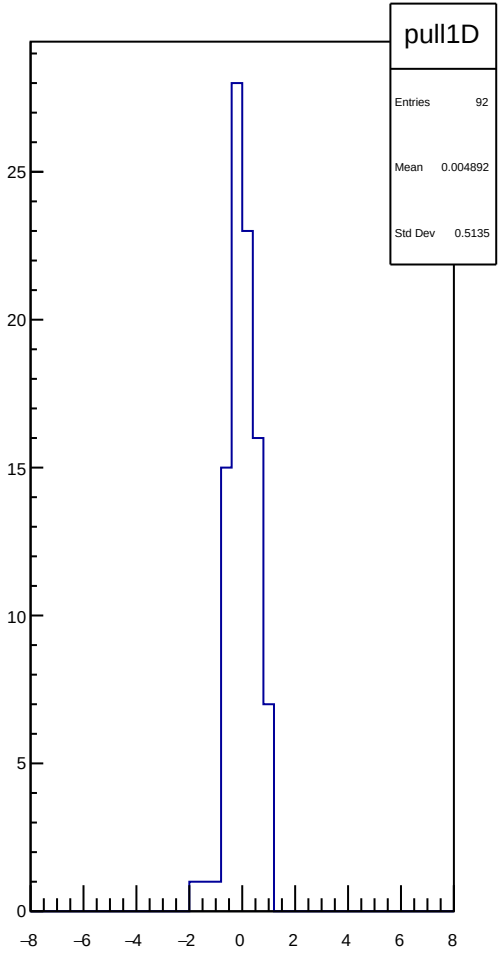

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 52.51 / 91
p0 −13.13 ± 3.748
pull
Entries 92
Mean −0.3654
Std Dev 0
pull1D
Entries 92
Mean 0.01115
Std Dev 0.7554

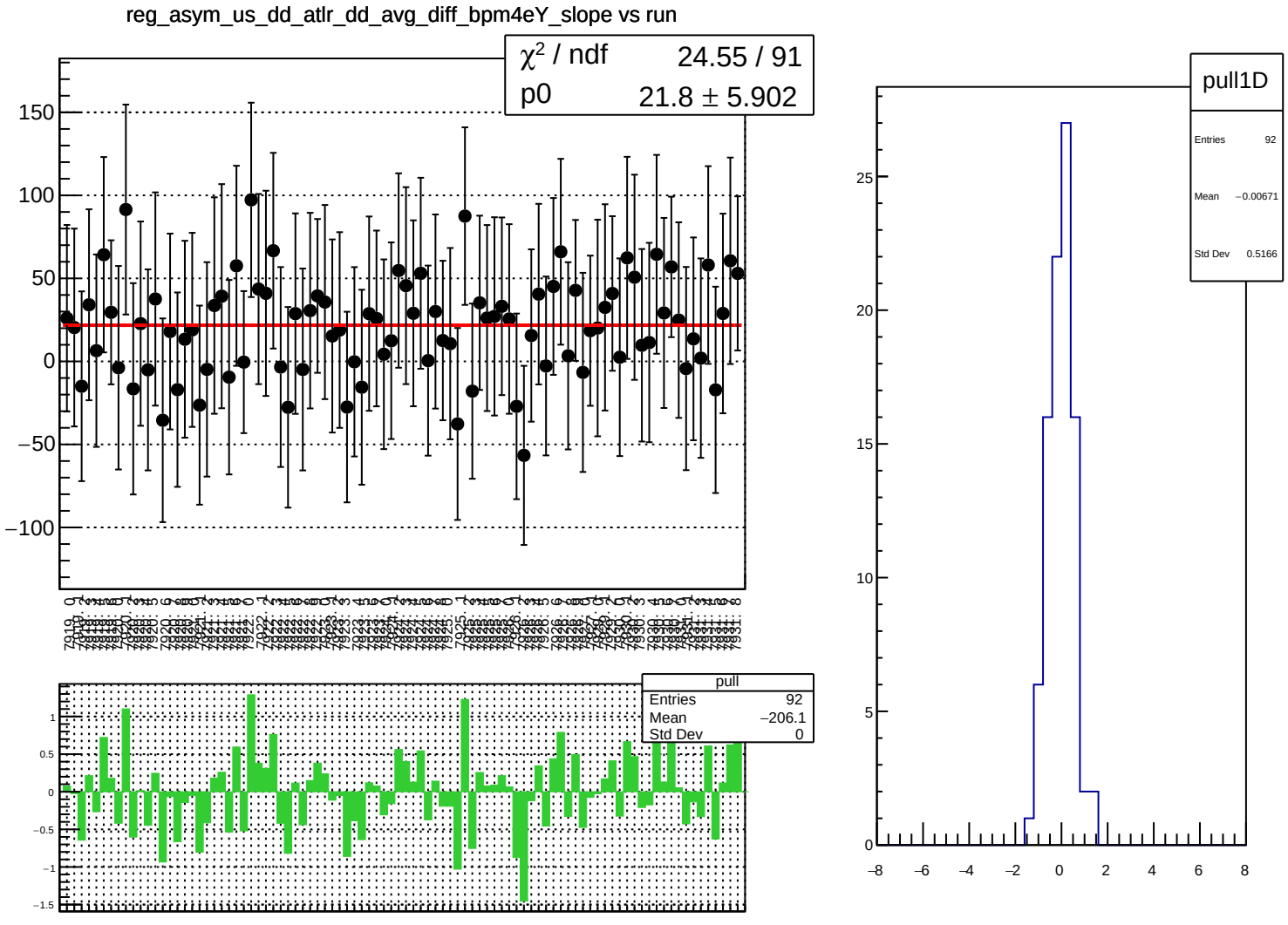

reg_asym_us_dd_at2lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 55.67 / 91
p0 −22.77 ± 0.1084
pull
Entries 92
Mean 567.2
Std Dev 0
pull1D
Entries 92
Mean 0.0007222
Std Dev 0.7779

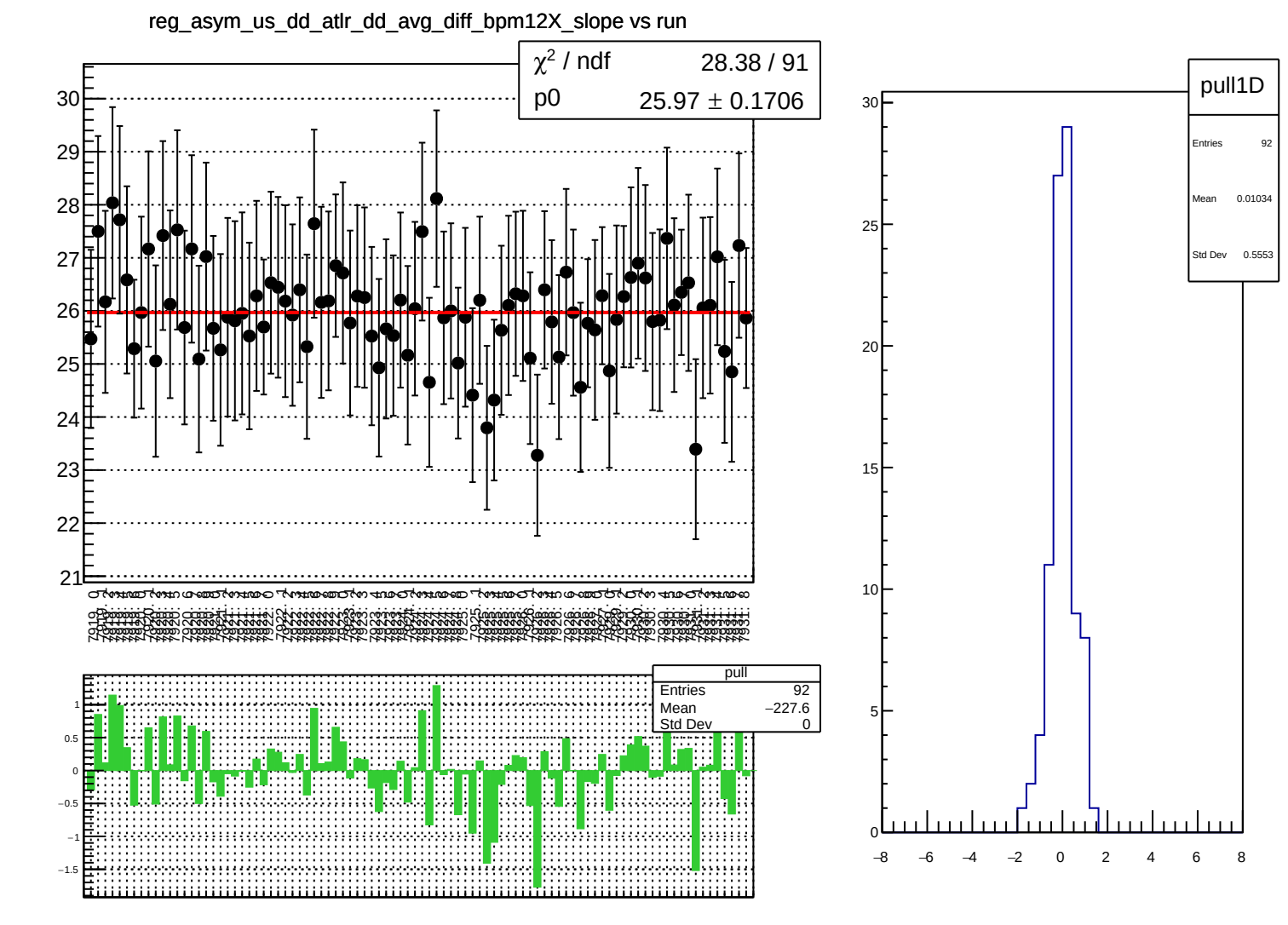

reg_asym_us_dd_atlr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 24.13 / 91
p0 16.68 ± 4.979
150
100
50
0
−50
−100
pull
Entries 92
Mean −112.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 92
Mean −0.004952
Std Dev 0.5121
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

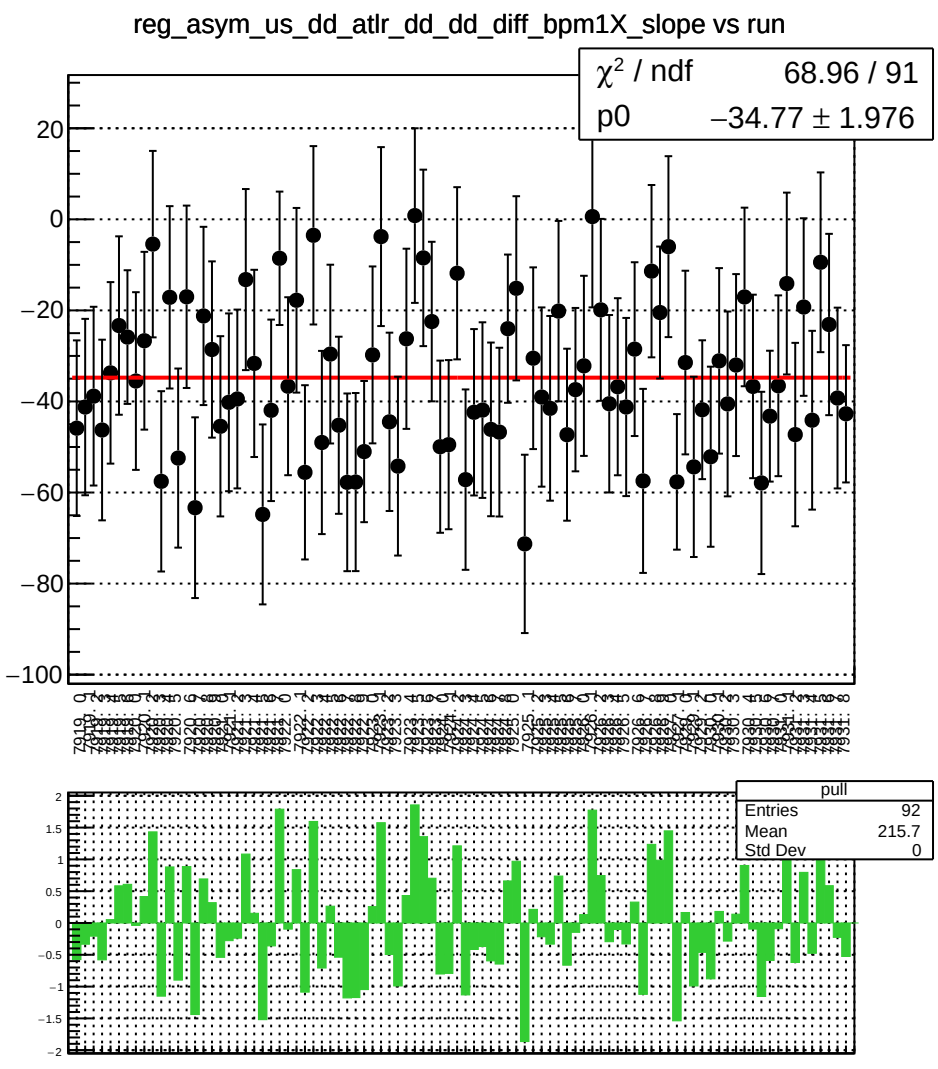

reg_asym_us_dd_atlr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 24.5 / 91
p0 −20.33 ± 5.134
100
50
0
−50
−100
−150
pull
Entries 92
Mean −220.2
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 92
Mean 0.006857
Std Dev 0.516
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

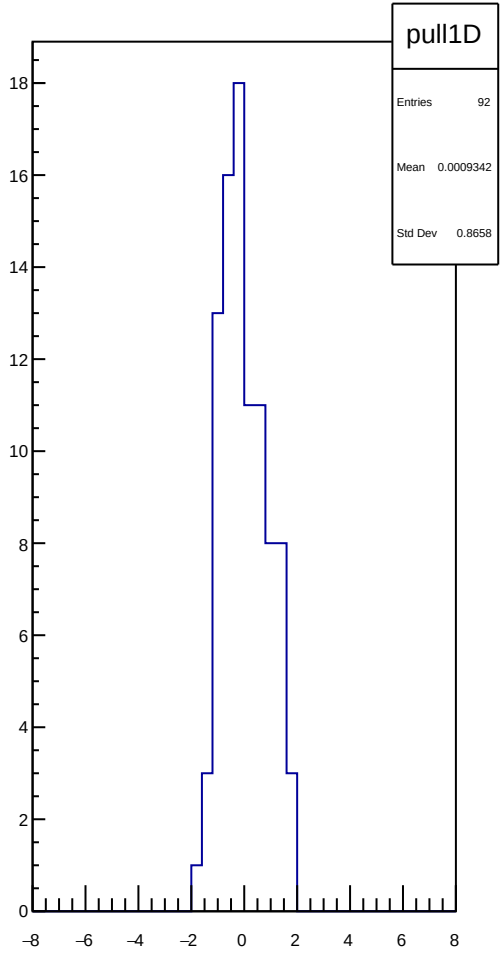

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 24.26 / 91
p0 −96.81 ± 4.453
pull
Entries 92
Mean −107.9
Std Dev 0

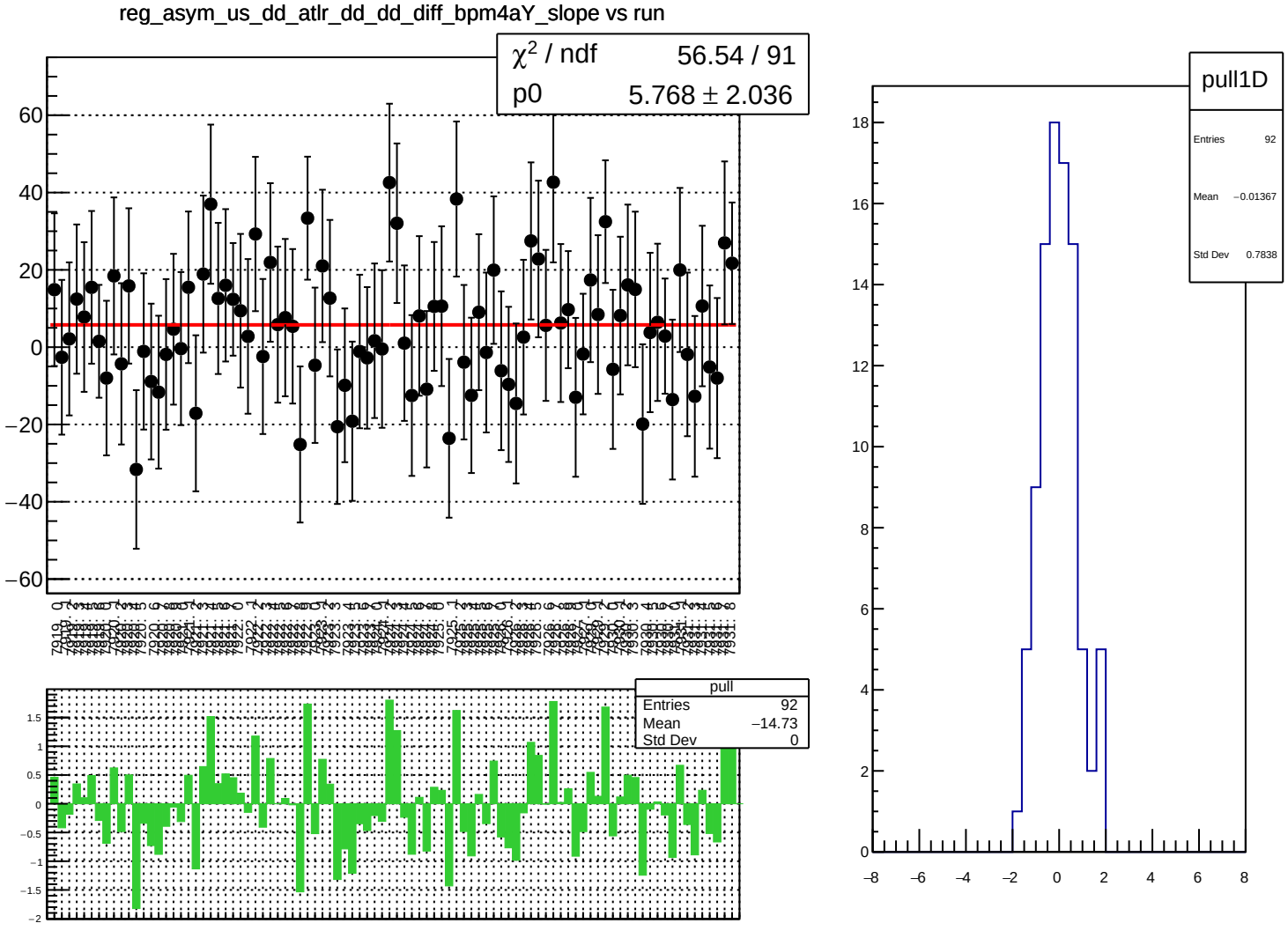

pull1D
Entries 92
Mean 0.004892
Std Dev 0.5135

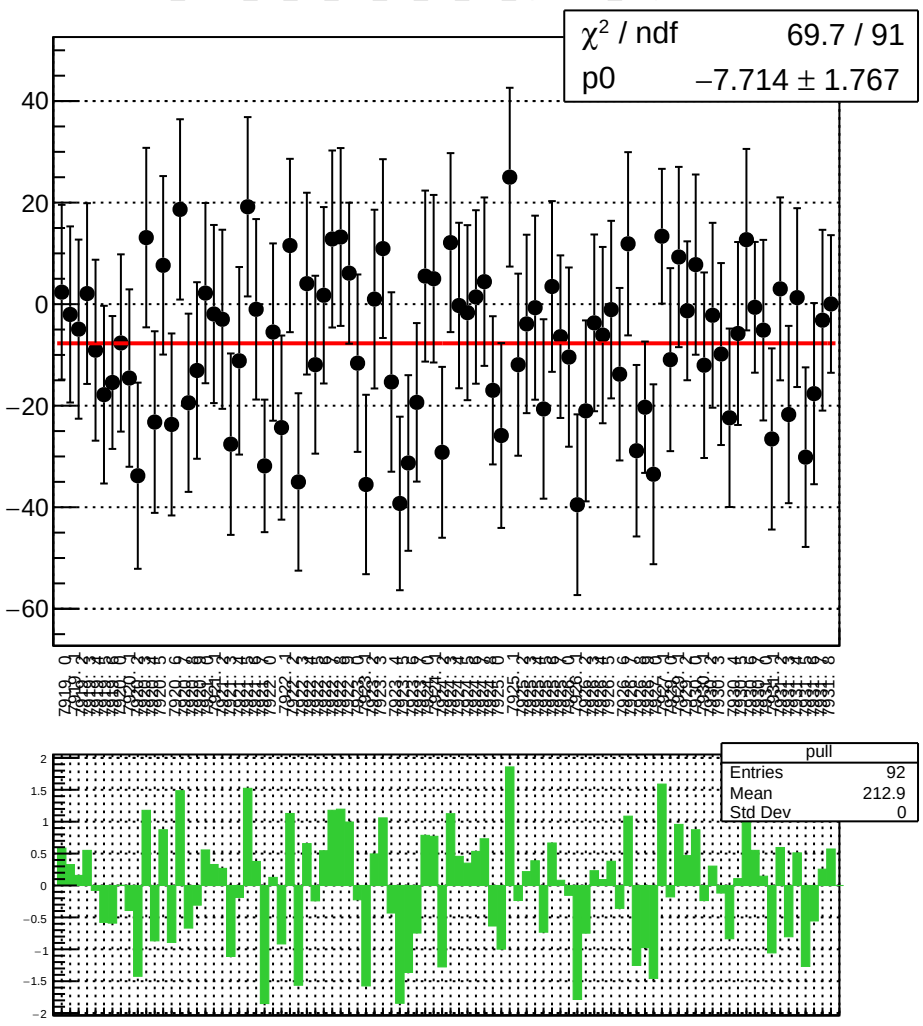

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 24.55 / 91
p0 21.8 ± 5.902
150
100
50
0
−50
−100
pull
Entries 92
Mean −206.1
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 92
Mean −0.00671
Std Dev 0.5166
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

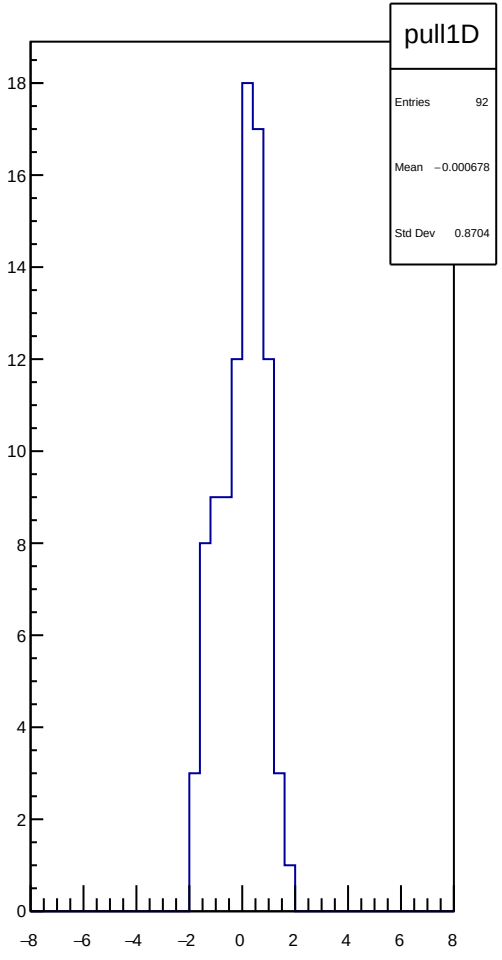

reg_asym_us_dd_atlr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 28.38 / 91
p0 25.97 ± 0.1706
pull
Entries 92
Mean −227.6
Std Dev 0
pull1D
Entries 92
Mean 0.01034
Std Dev 0.5553

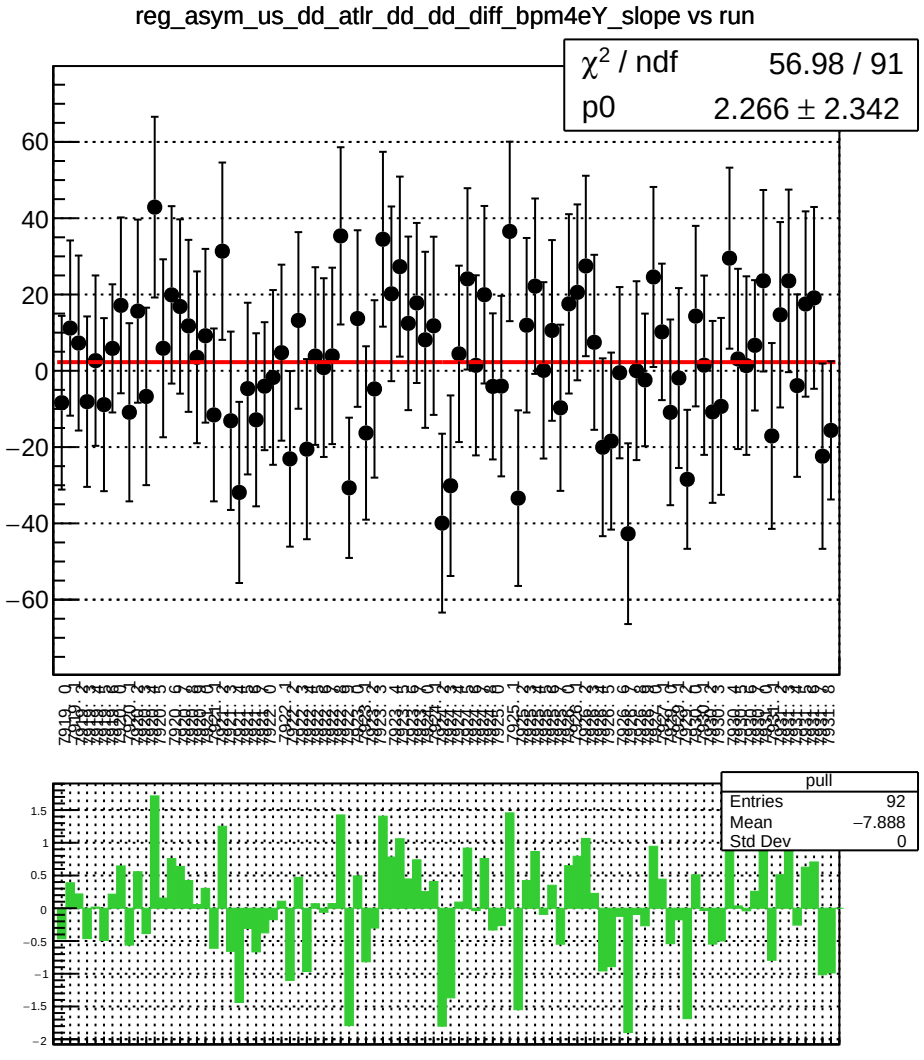

reg_asym_us_dd_atlr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 68.96 / 91
p0 −34.77 ± 1.976
pull
Entries 92
Mean 215.7
Std Dev 0

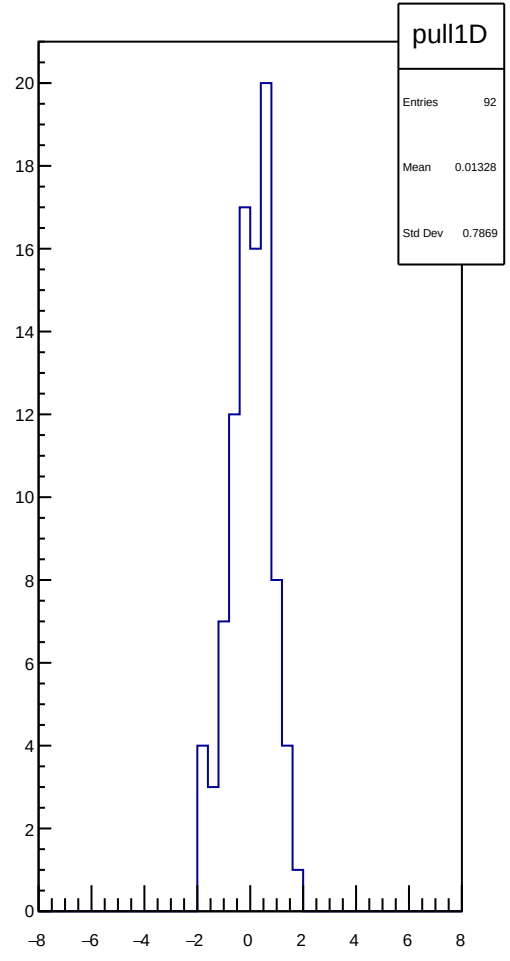

pull1D
Entries 92
Mean 0.0009342
Std Dev 0.8658

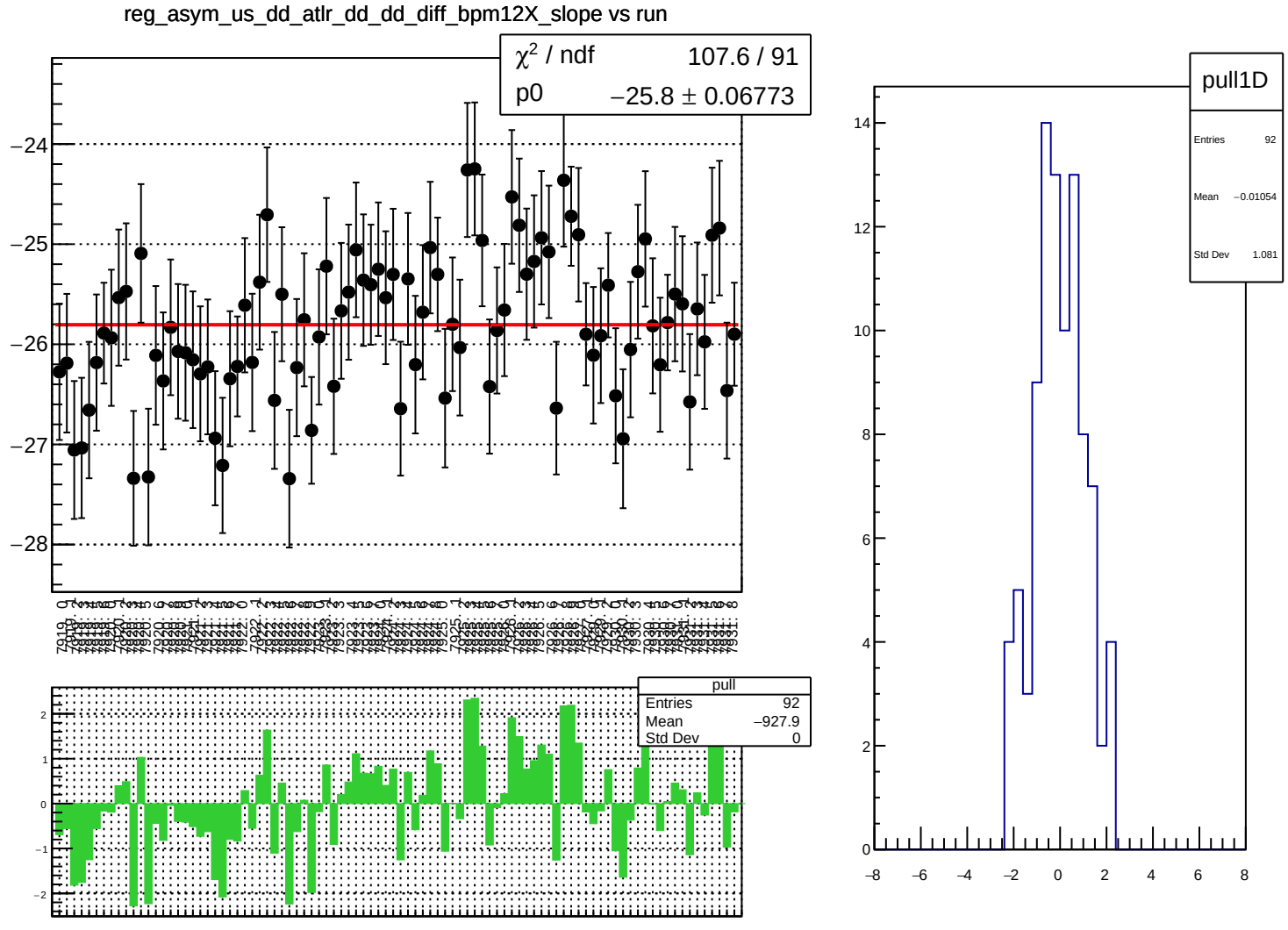

reg_asym_us_dd_atlr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 56.54 / 91
p0 5.768 ± 2.036
pull
Entries 92
Mean −14.73
Std Dev 0
pull1D
Entries 92
Mean −0.01367
Std Dev 0.7838

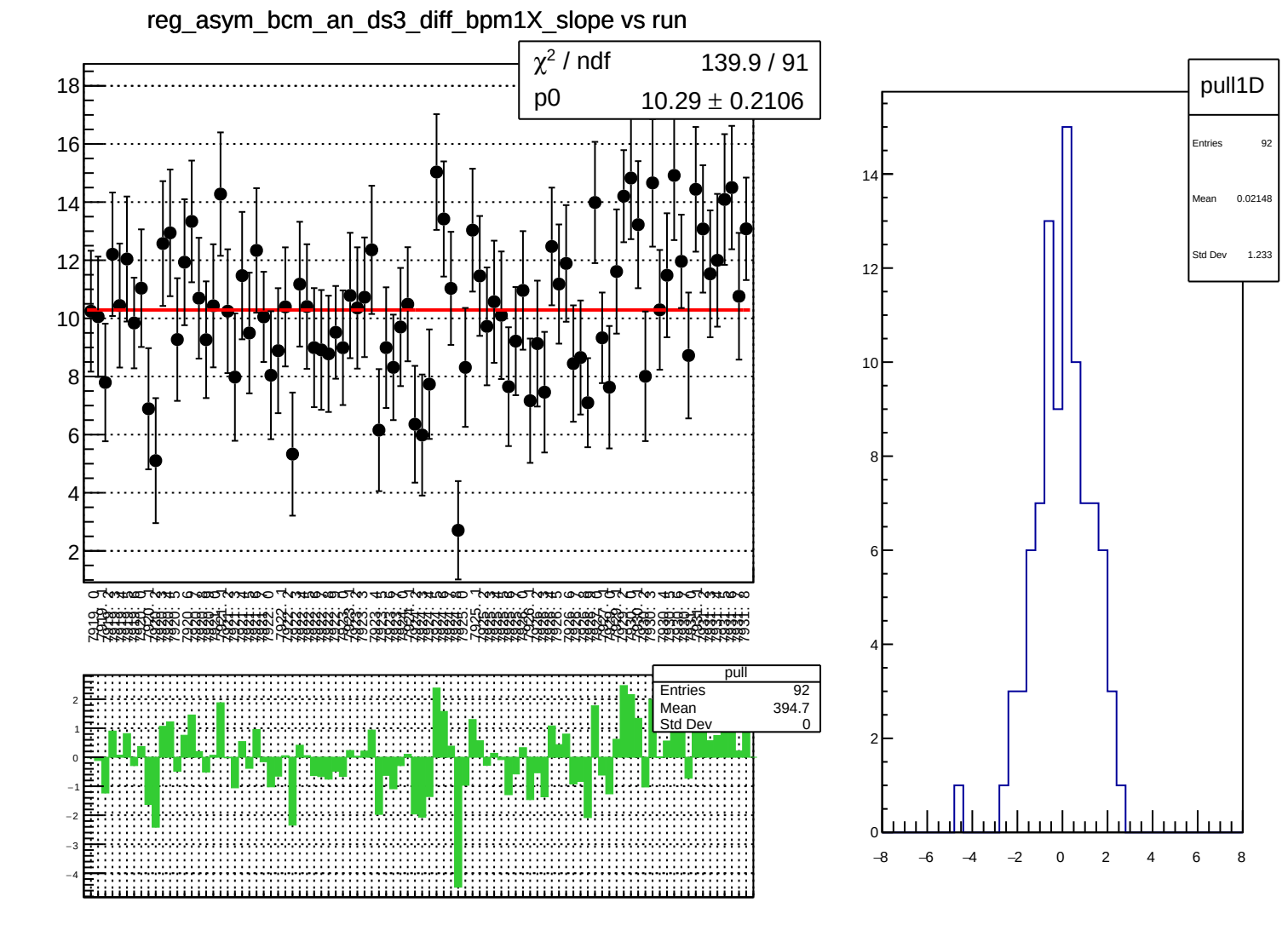

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 69.7 / 91
p0 −7.714 ± 1.767
pull
Entries 92
Mean 212.9
Std Dev 0

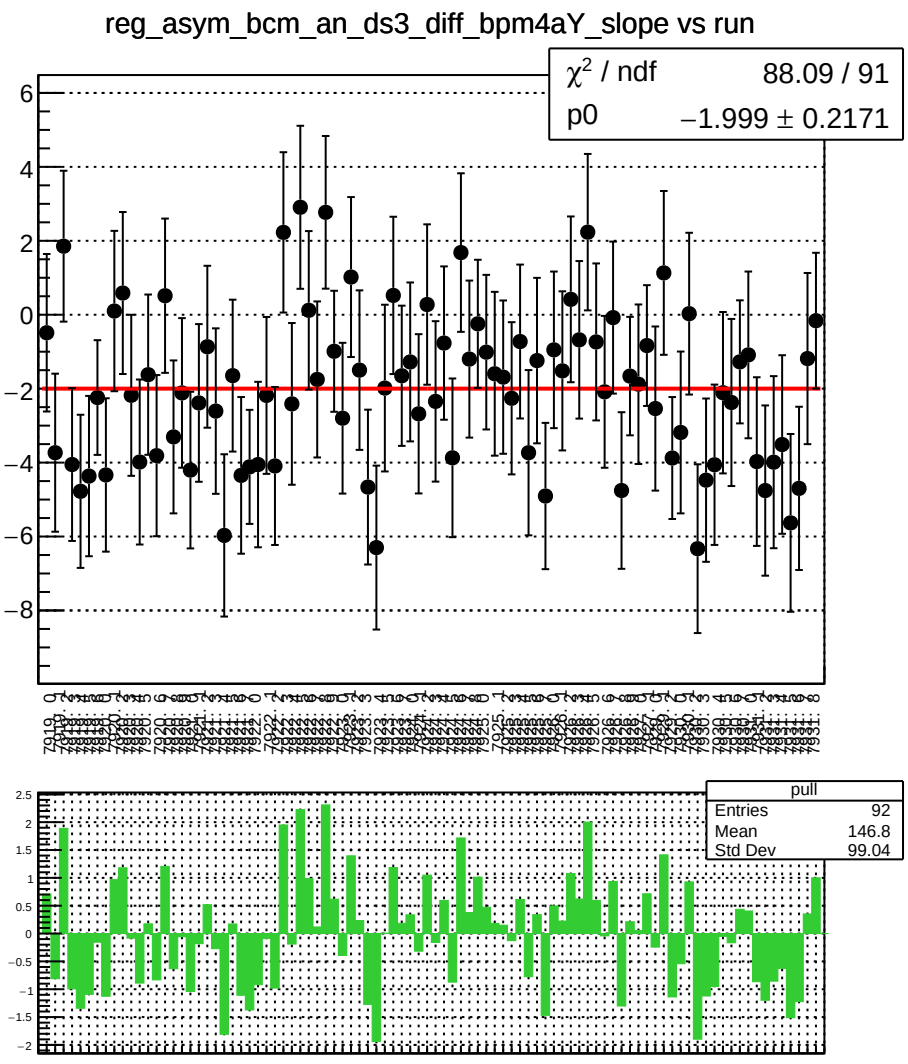

pull1D
Entries 92
Mean −0.000678
Std Dev 0.8704

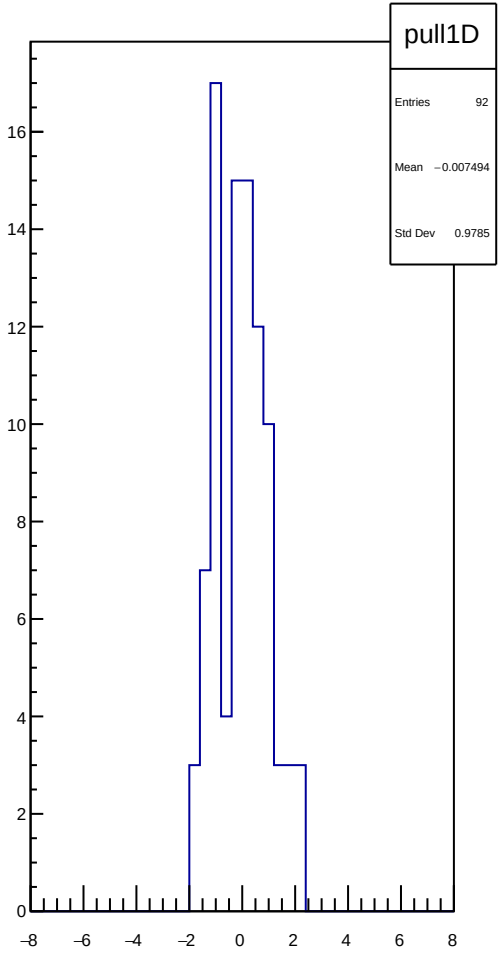

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 56.98 / 91
p0 2.266 ± 2.342
pull
Entries 92
Mean −7.888
Std Dev 0

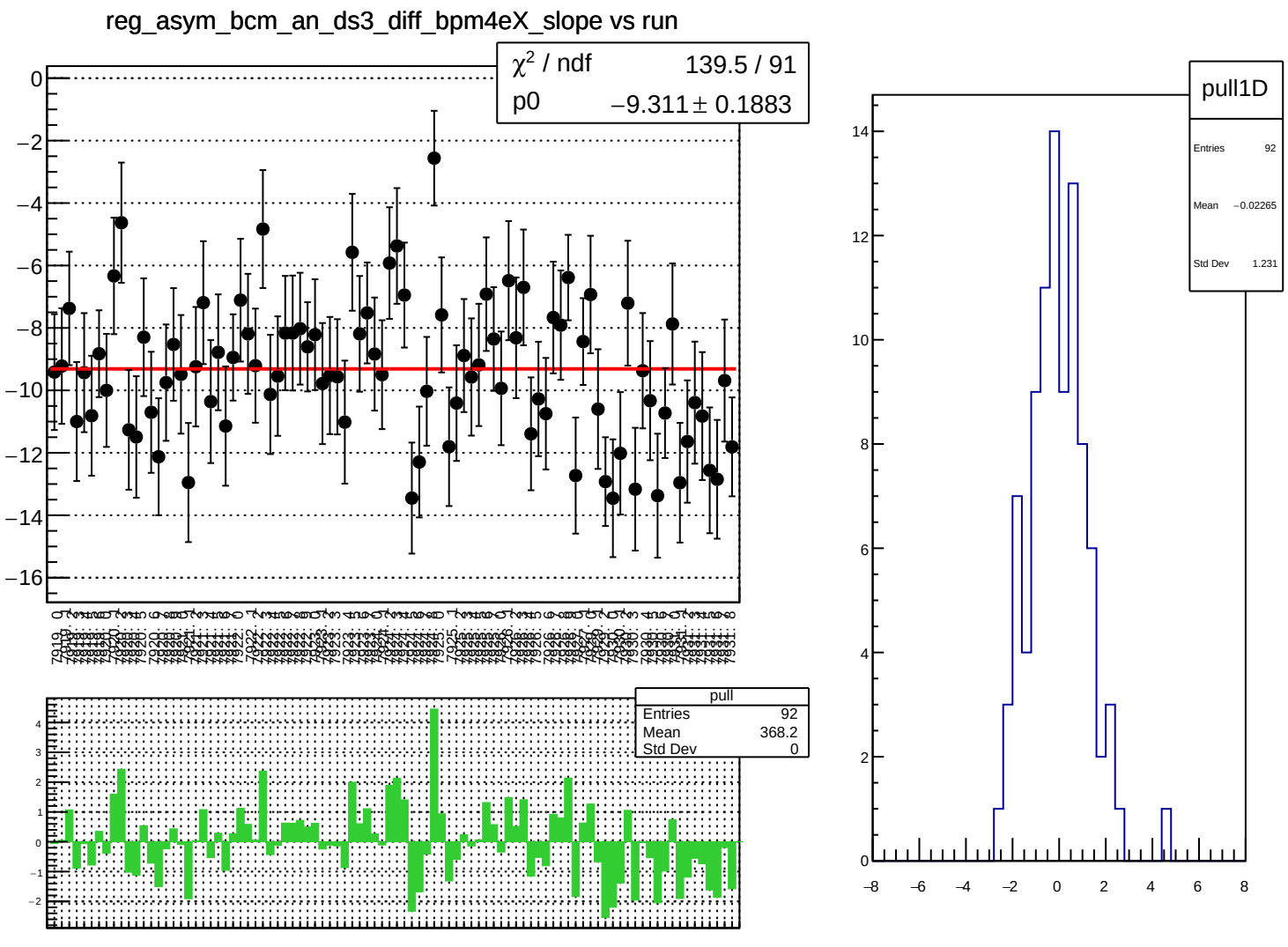

pull1D
Entries 92
Mean 0.01328
Std Dev 0.7869

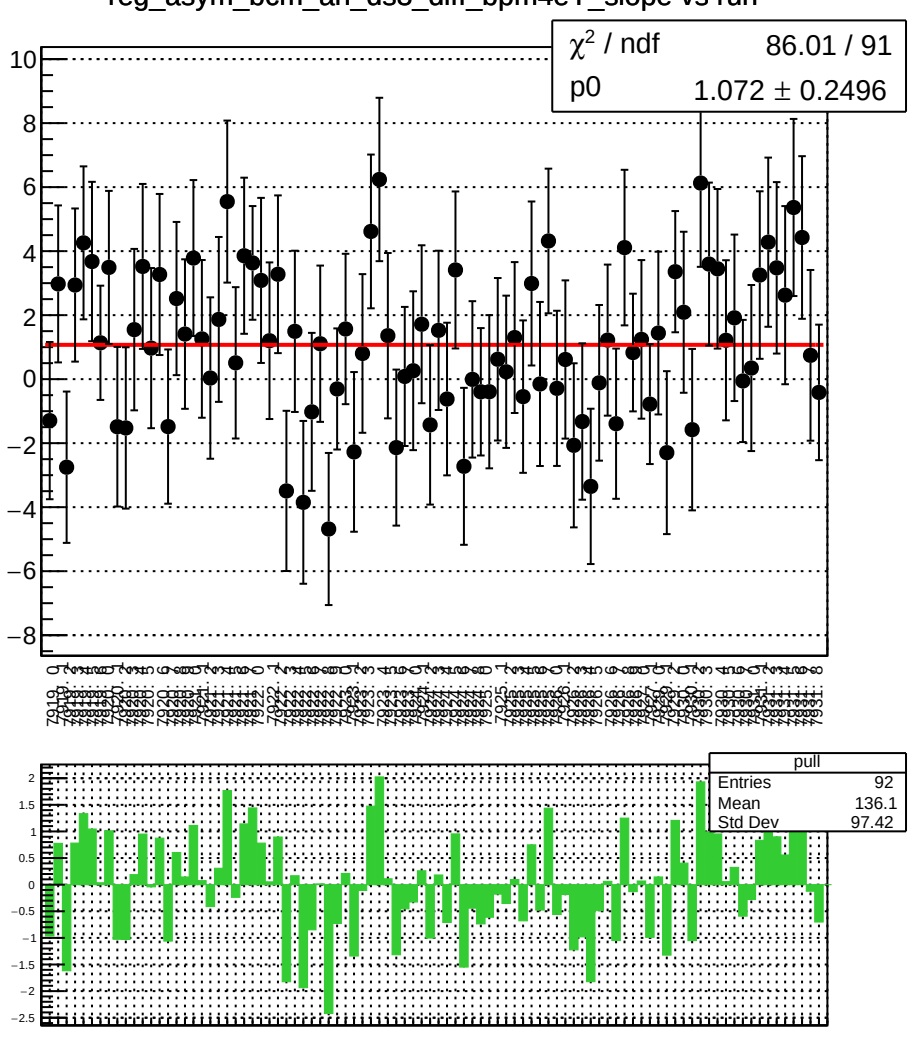

reg_asym_us_dd_atlr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 107.6 / 91
p0 −25.8 ± 0.06773
−24
−25
−26
−27
−28
pull
Entries 92
Mean −927.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.01054
Std Dev 1.081
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

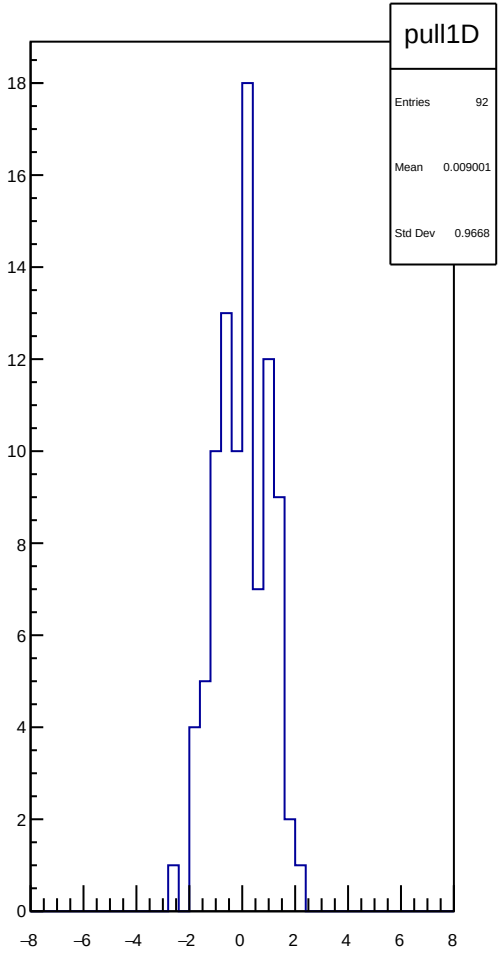

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 139.9 / 91
p0 10.29 ± 0.2106
pull
Entries 92
Mean 394.7
Std Dev 0
pull1D
Entries 92
Mean 0.02148
Std Dev 1.233

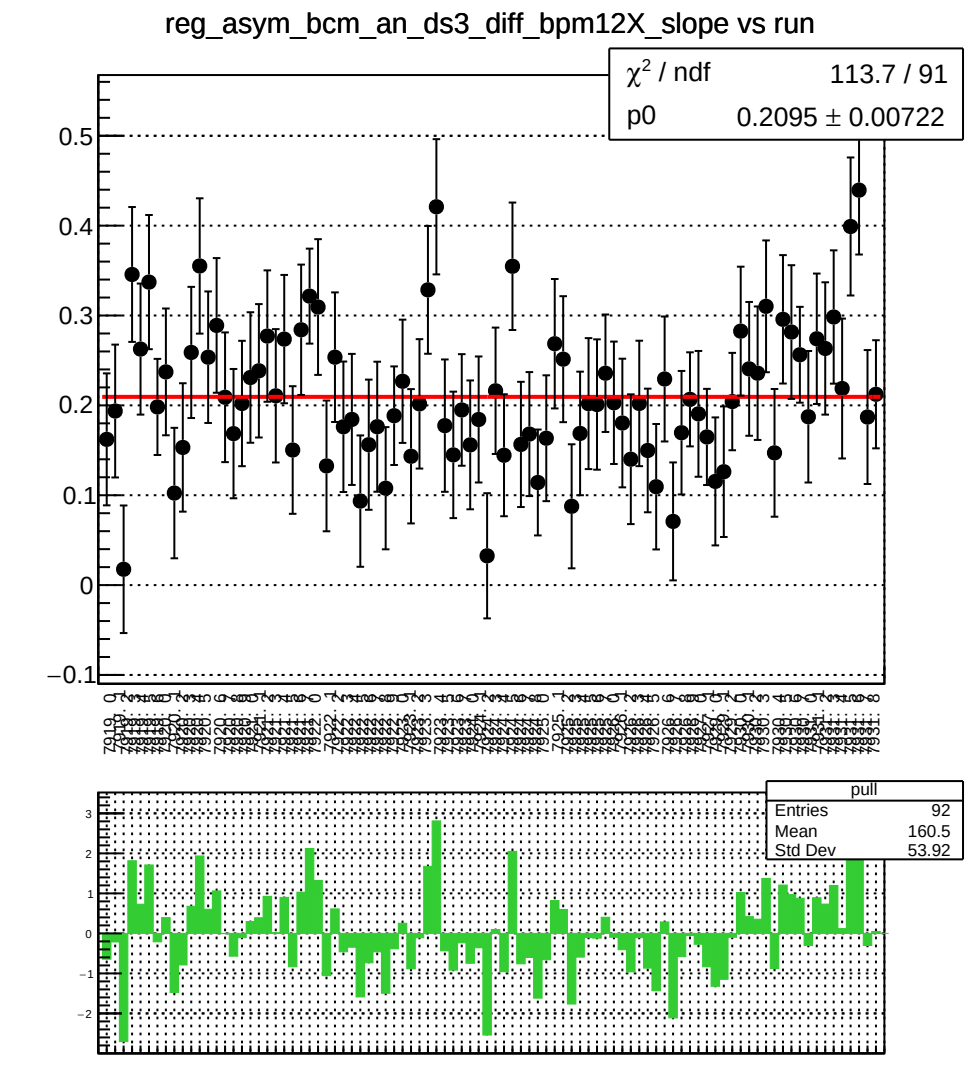

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 88.09 / 91
p0 −1.999 ± 0.2171
pull
Entries 92
Mean 146.8
Std Dev 99.04

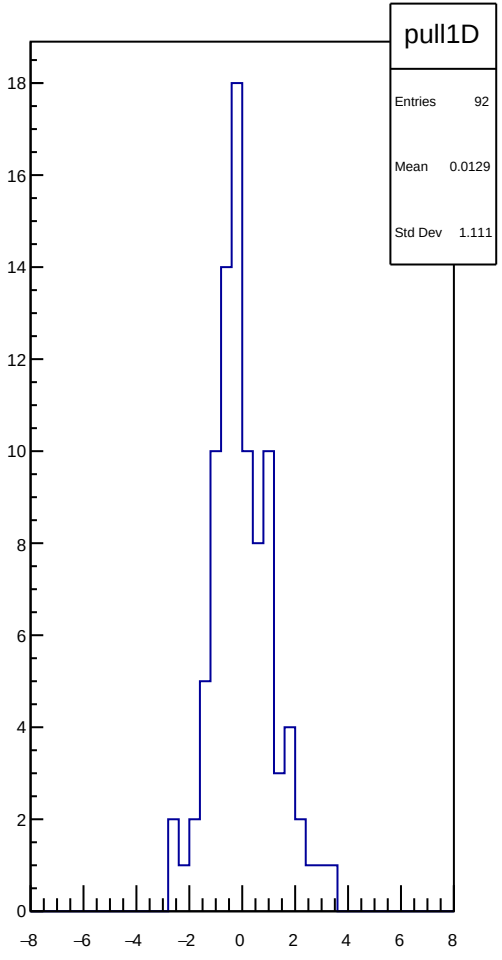

pull1D
Entries 92
Mean −0.007494
Std Dev 0.9785

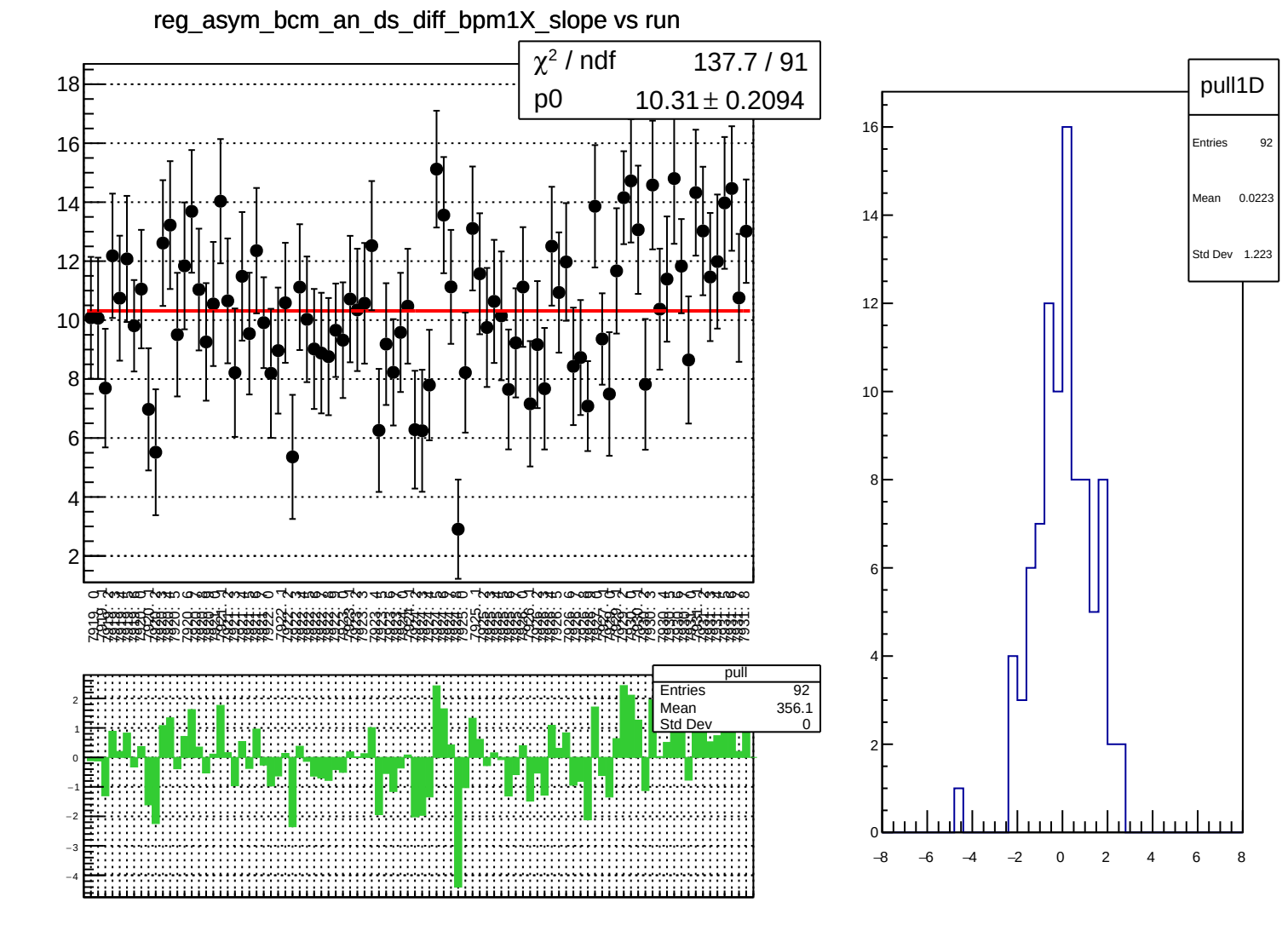

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 139.5 / 91
p0 −9.311 ± 0.1883
pull
Entries 92
Mean 368.2
Std Dev 0
pull1D
Entries 92
Mean −0.02265
Std Dev 1.231

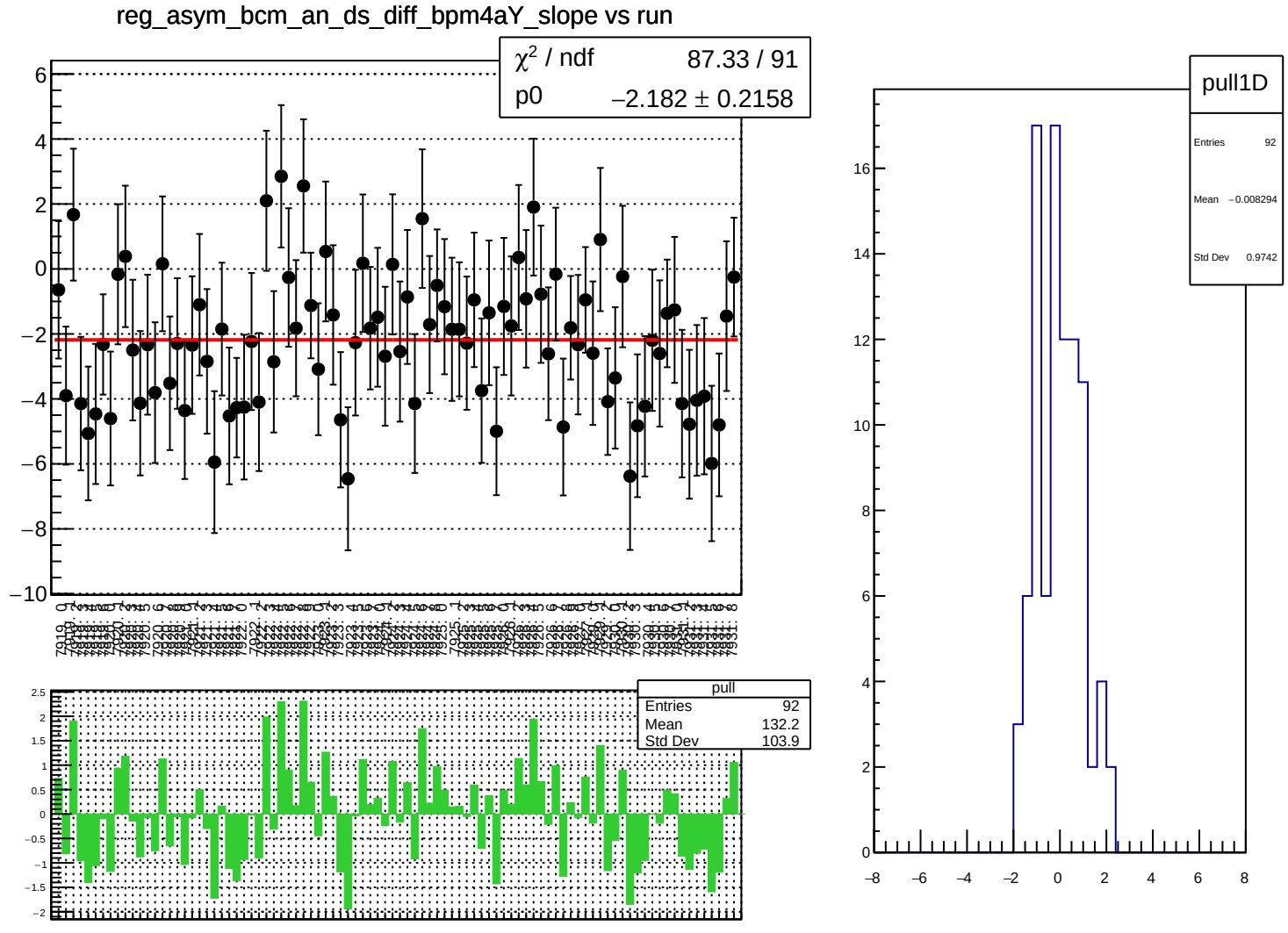

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 86.01 / 91
p0 1.072 ± 0.2496
pull
Entries 92
Mean 136.1
Std Dev 97.42

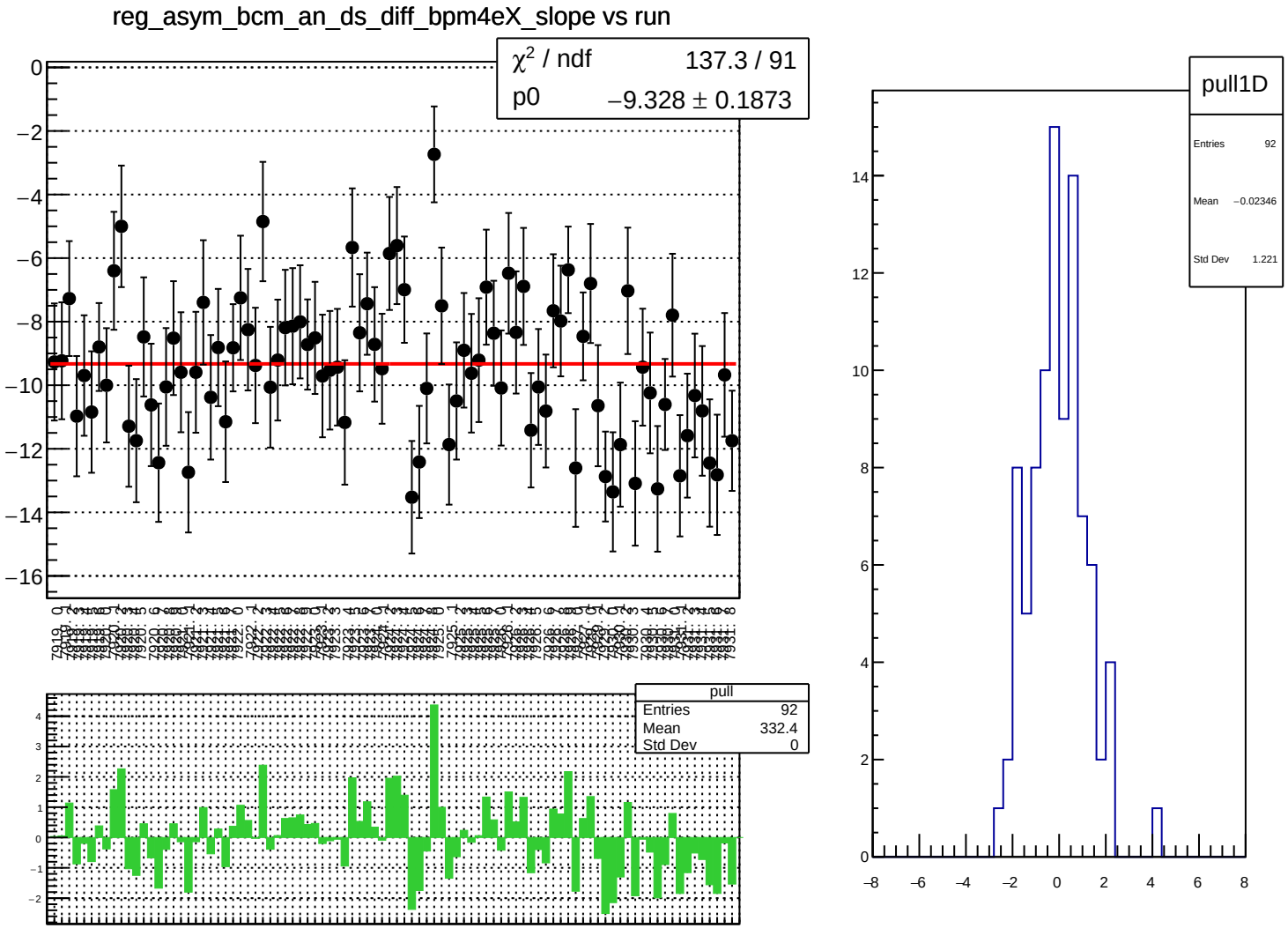

pull1D
Entries 92
Mean 0.009001
Std Dev 0.9668

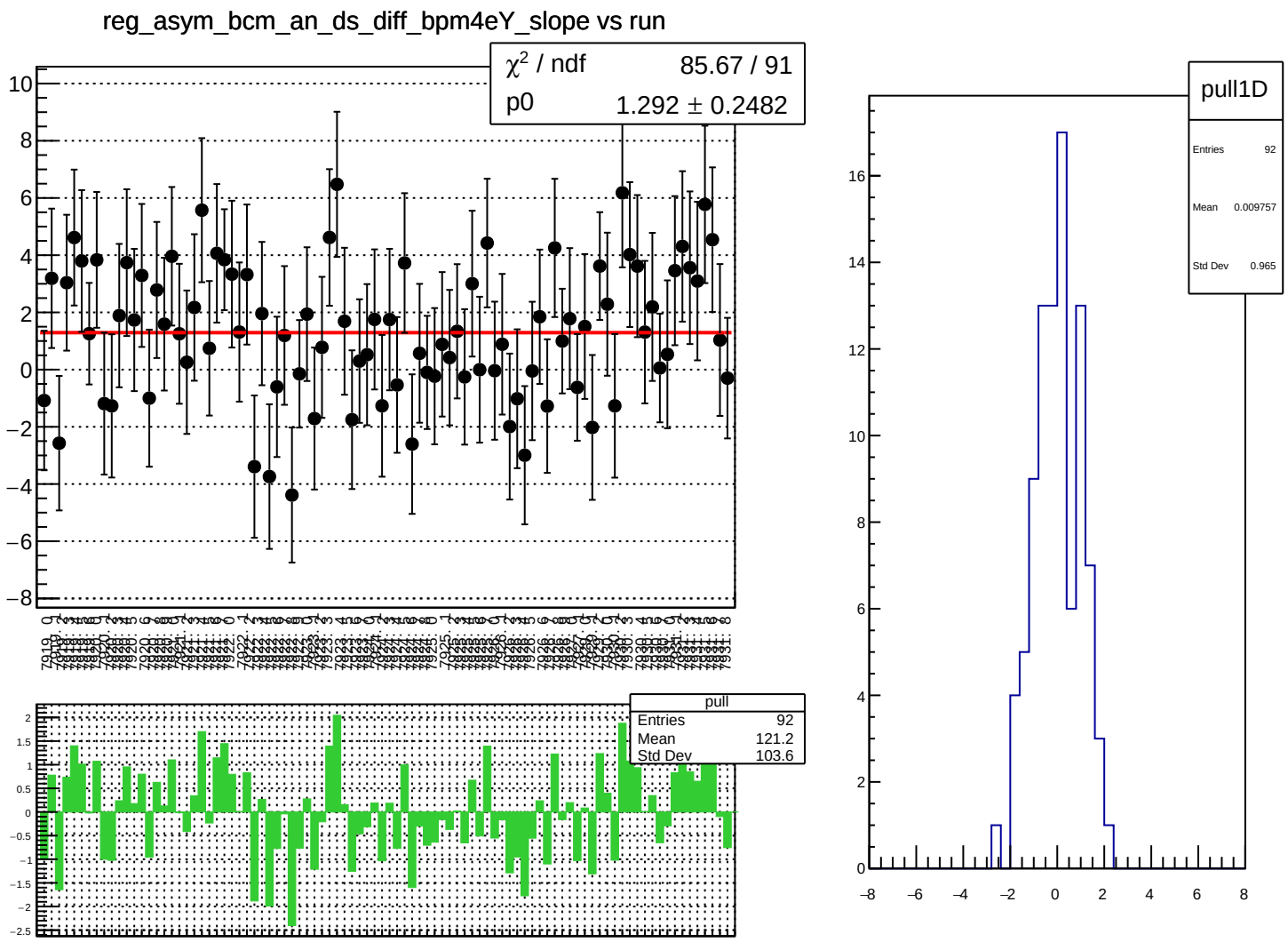

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 113.7 / 91
p0 0.2095 ± 0.00722
pull
Entries 92
Mean 160.5
Std Dev 53.92

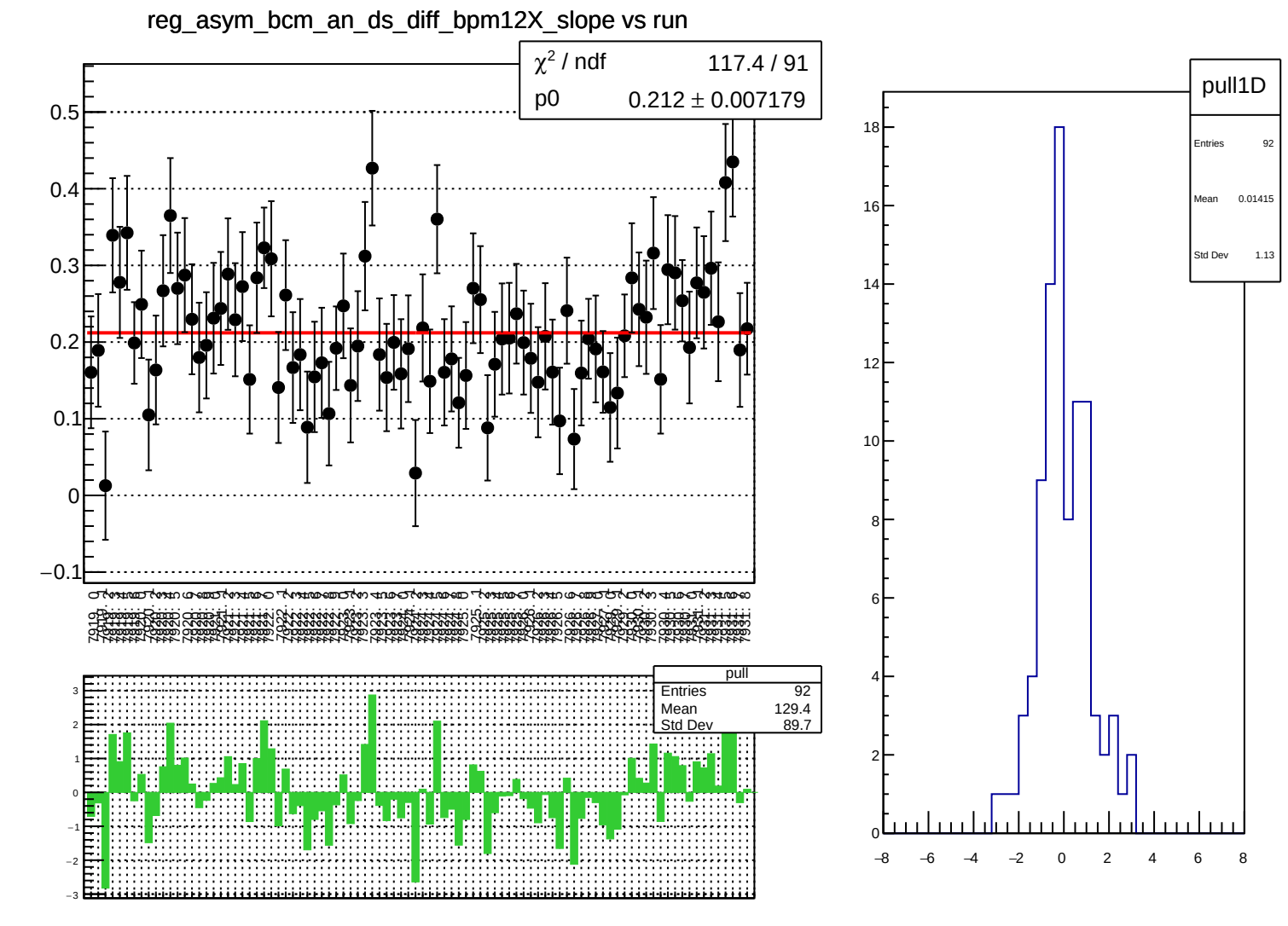

pull1D
Entries 92
Mean 0.0129
Std Dev 1.111

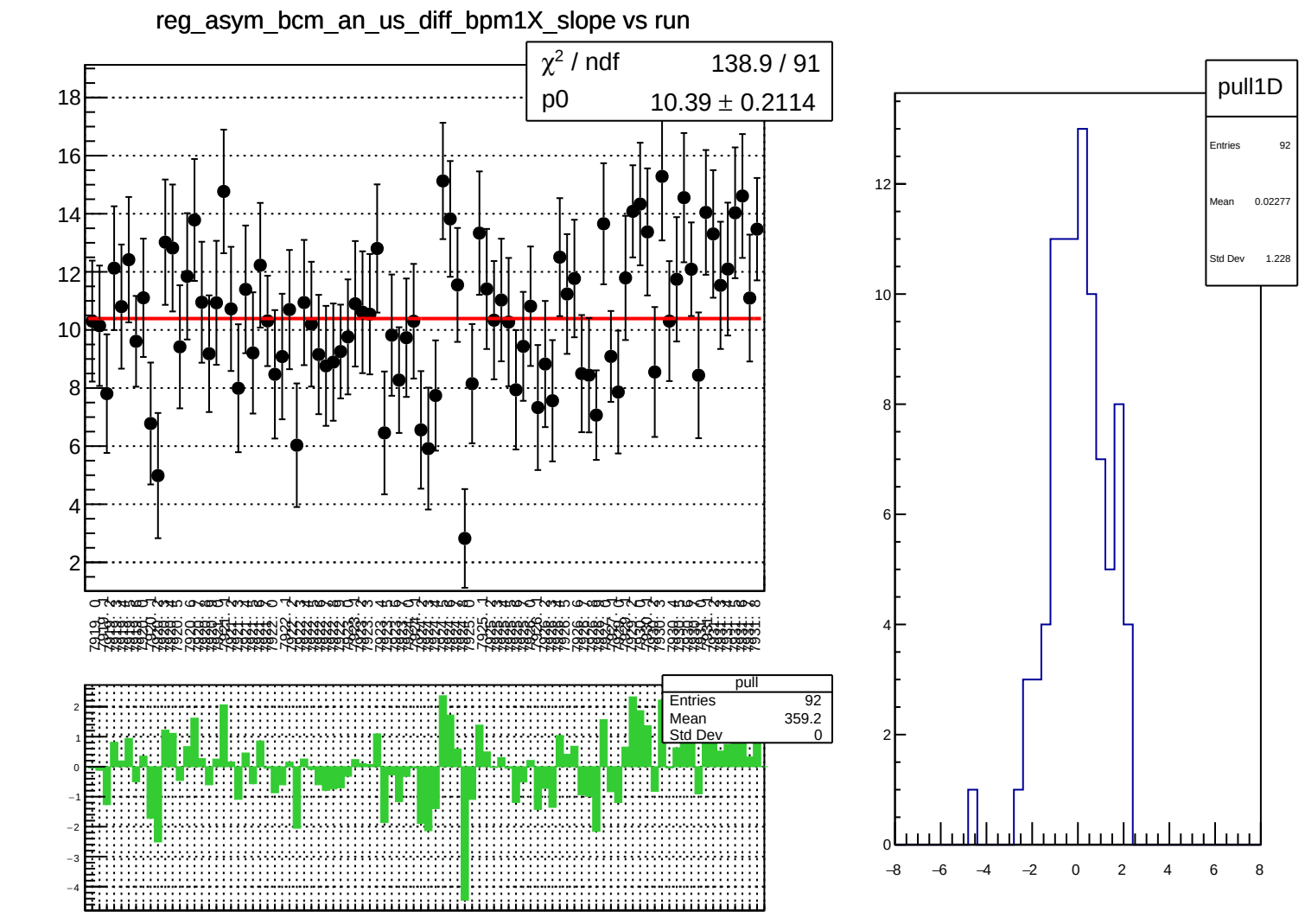

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 137.7 / 91
p0 10.31 ± 0.2094
pull
Entries 92
Mean 356.1
Std Dev 0
pull1D
Entries 92
Mean 0.0223
Std Dev 1.223

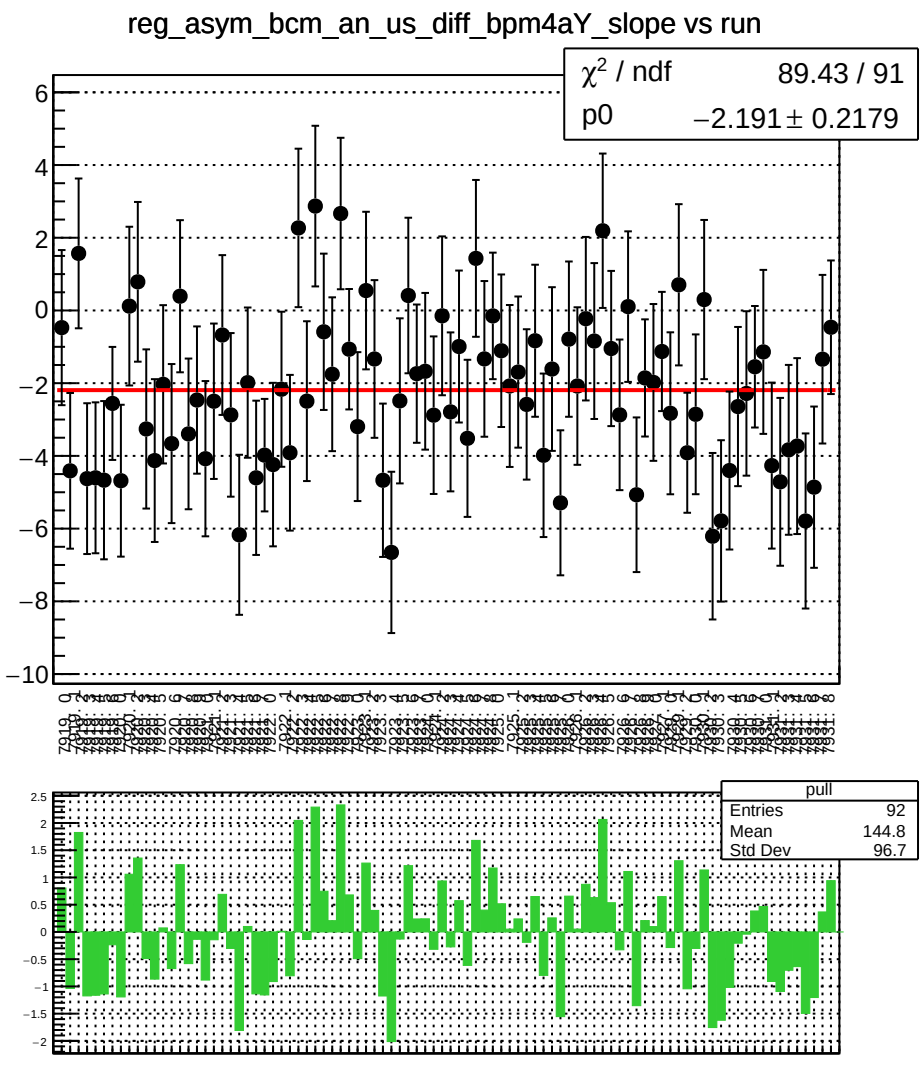

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 87.33 / 91
p0 −2.182 ± 0.2158
pull
Entries 92
Mean 132.2
Std Dev 103.9
pull1D
Entries 92
Mean −0.008294
Std Dev 0.9742

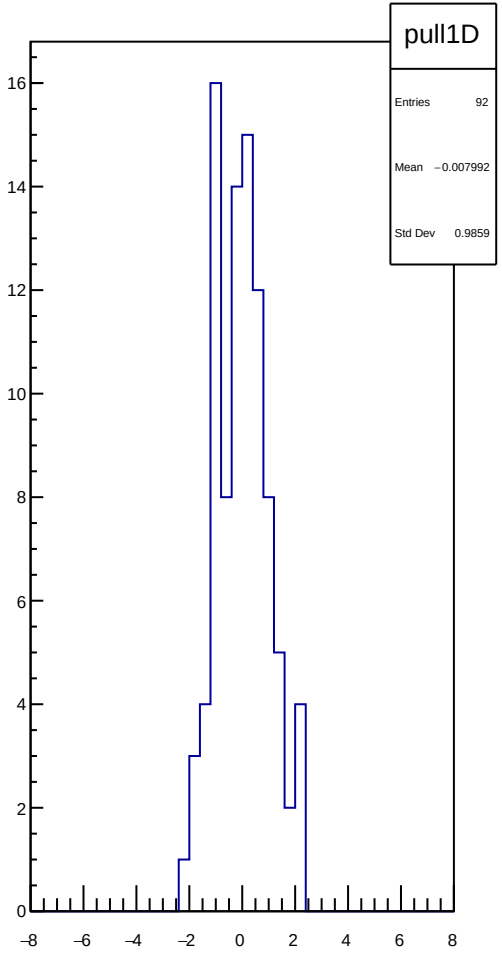

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 137.3 / 91
p0 −9.328 ± 0.1873
pull
Entries 92
Mean 332.4
Std Dev 0
pull1D
Entries 92
Mean −0.02346
Std Dev 1.221

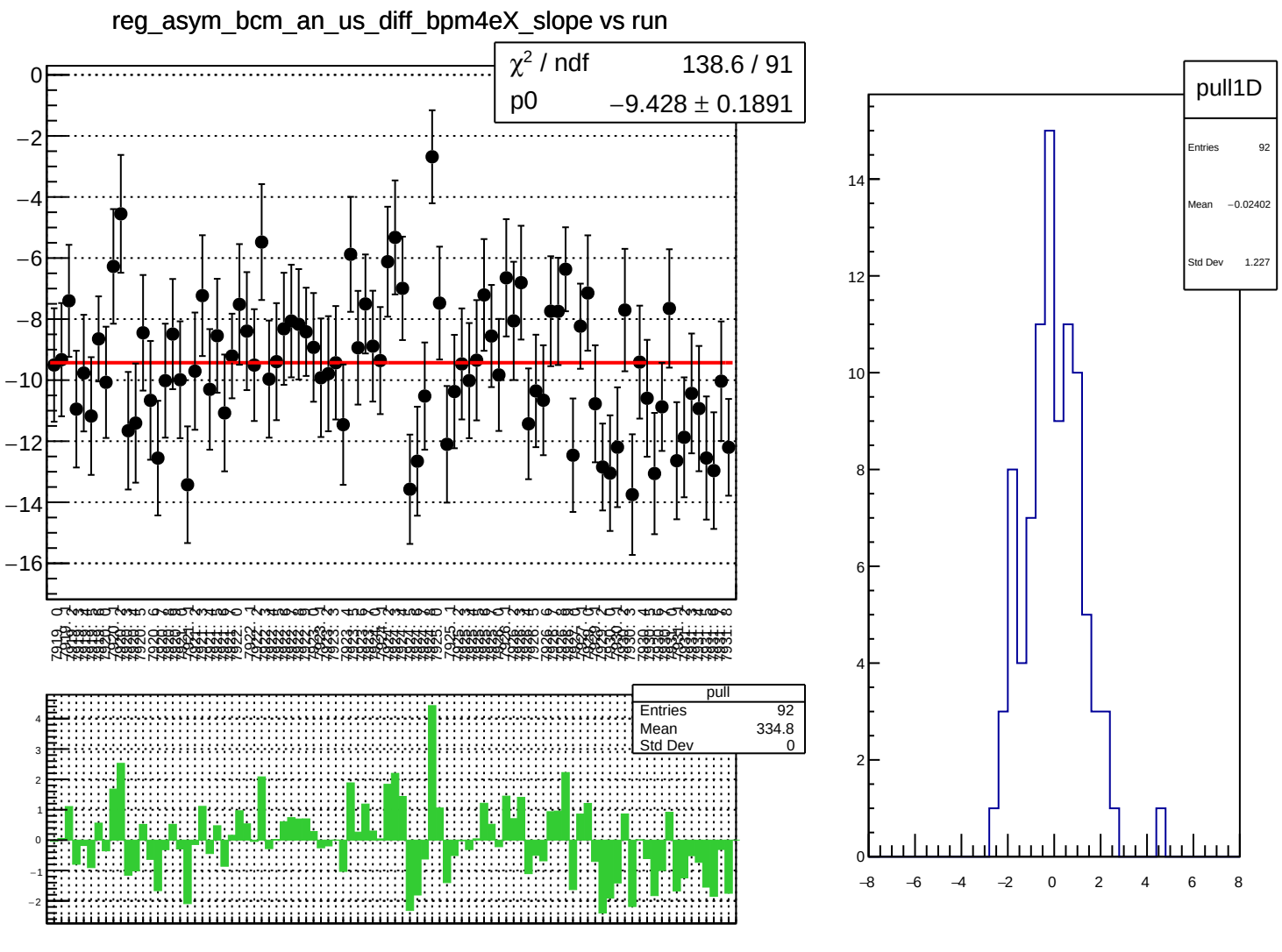

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 85.67 / 91
p0 1.292 ± 0.2482
pull
Entries 92
Mean 121.2
Std Dev 103.6
pull1D
Entries 92
Mean 0.009757
Std Dev 0.965

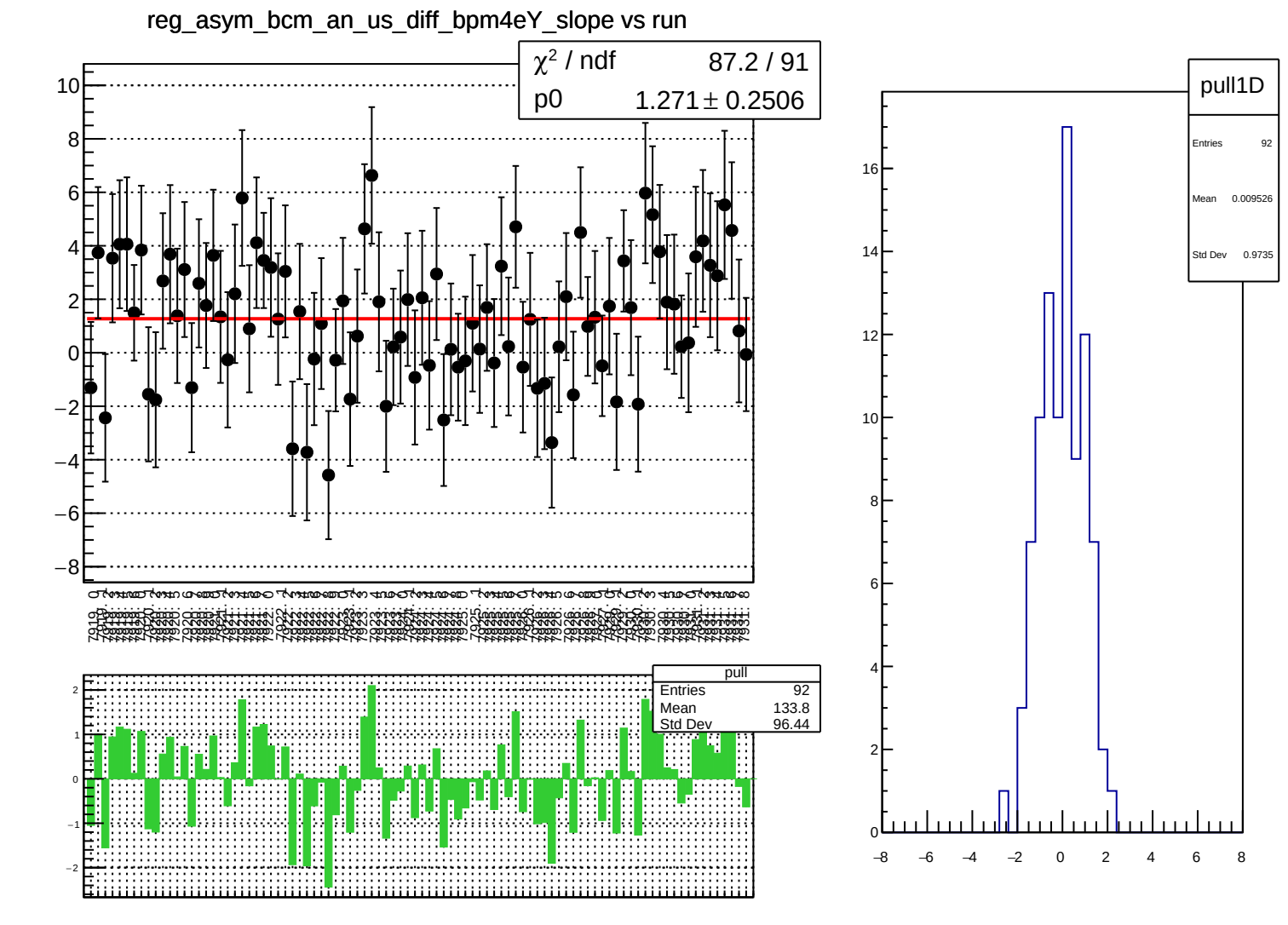

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 117.4 / 91
p0 0.212 ± 0.007179
pull
Entries 92
Mean 129.4
Std Dev 89.7
pull1D
Entries 92
Mean 0.01415
Std Dev 1.13

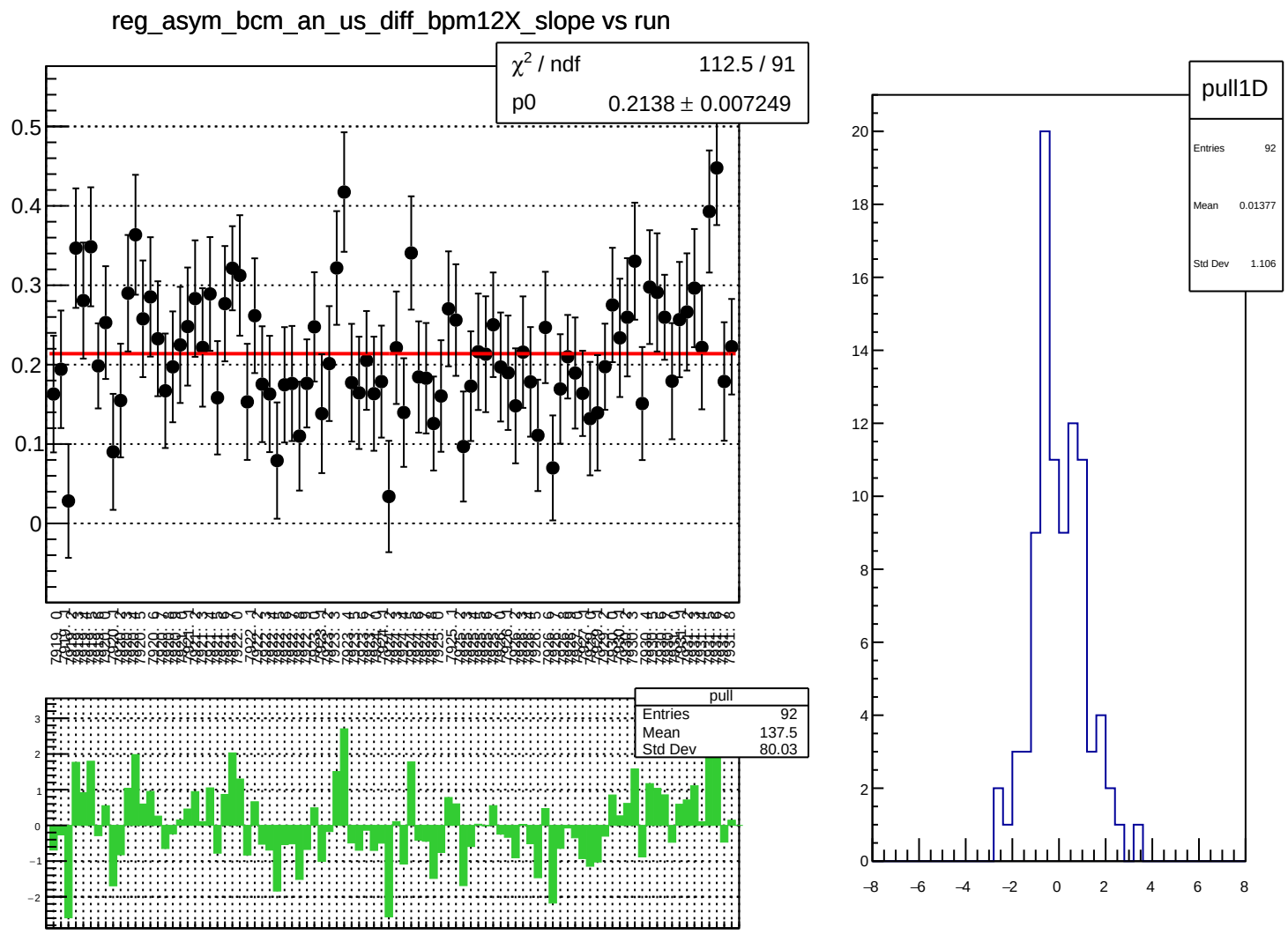

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 138.9 / 91
p0 10.39 ± 0.2114
pull
Entries 92
Mean 359.2
Std Dev 0
pull1D
Entries 92
Mean 0.02277
Std Dev 1.228

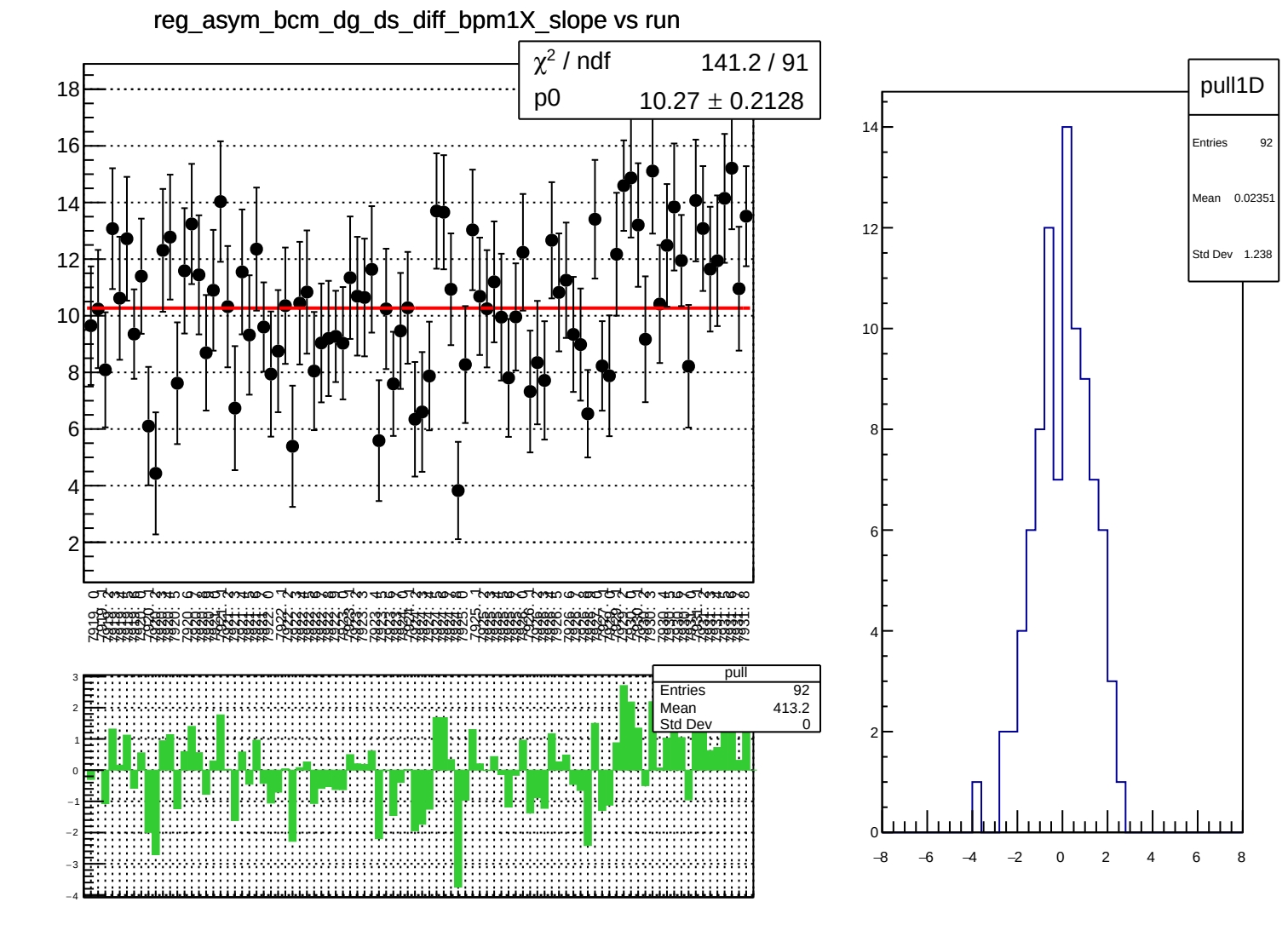

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 89.43 / 91
p0 −2.191 ± 0.2179
pull
Entries 92
Mean 144.8
Std Dev 96.7

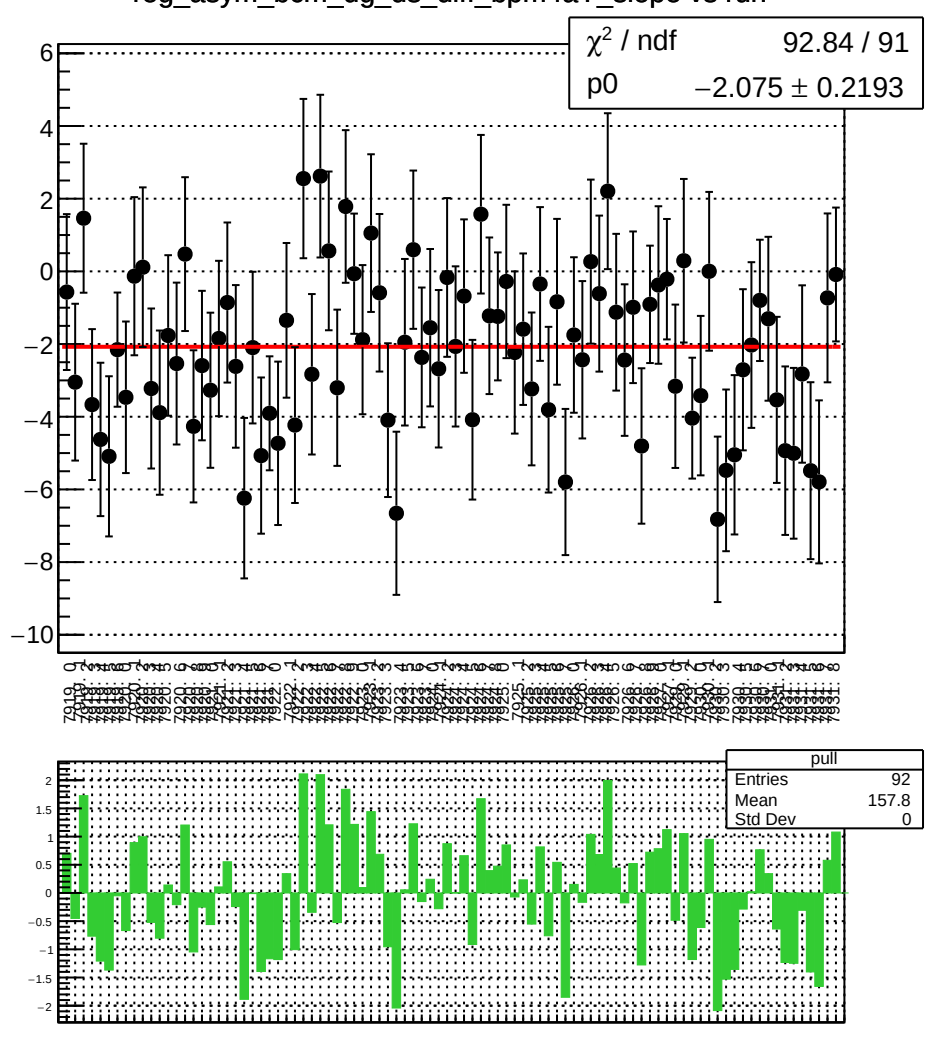

pull1D
Entries 92
Mean −0.007992
Std Dev 0.9859

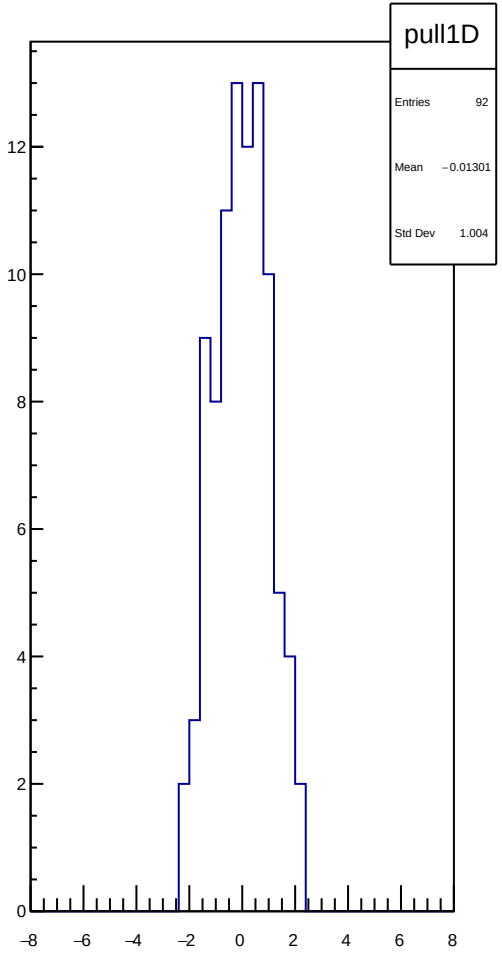

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 138.6 / 91
p0 −9.428 ± 0.1891
pull
Entries 92
Mean 334.8
Std Dev 0
pull1D
Entries 92
Mean −0.02402
Std Dev 1.227

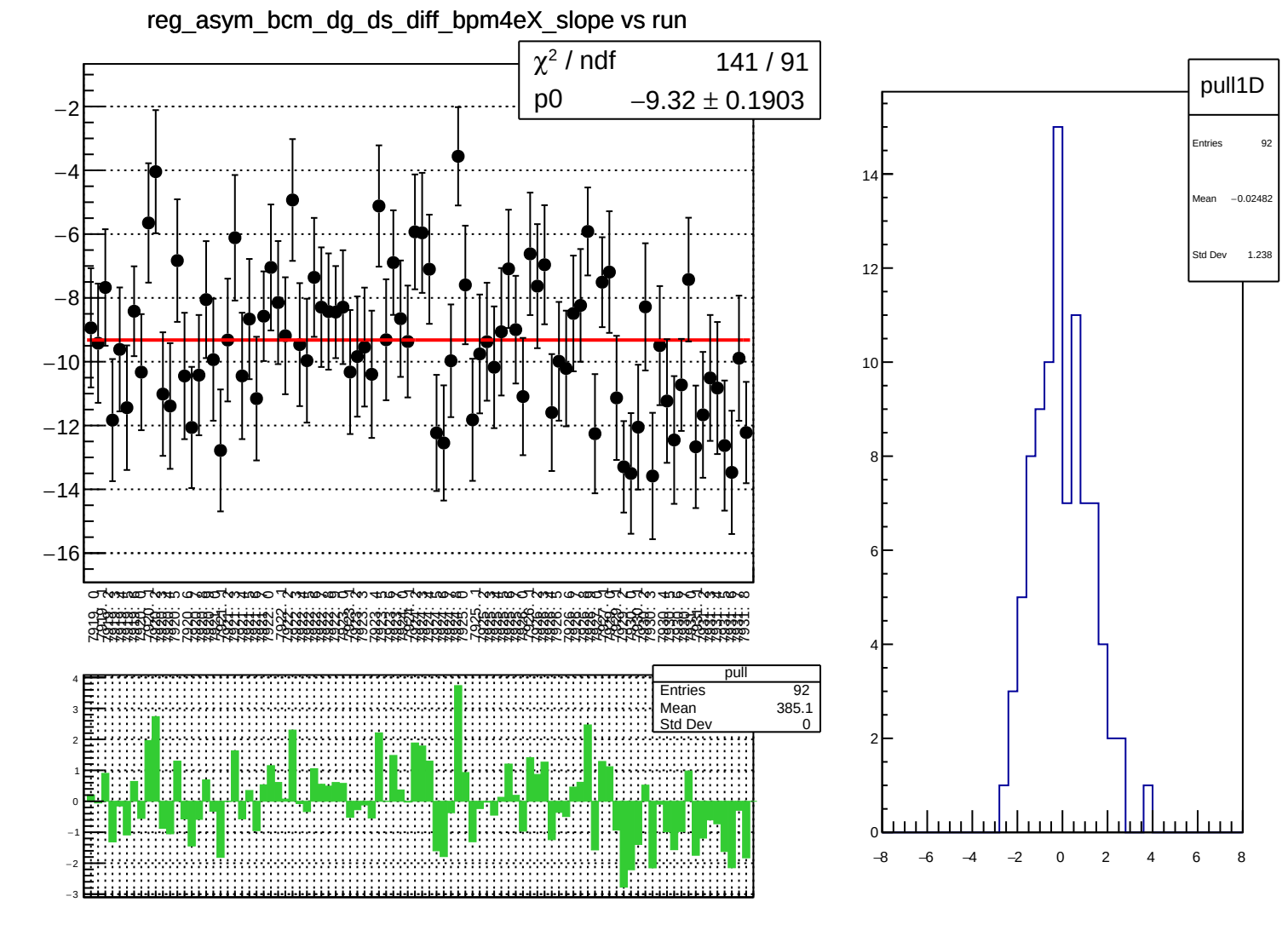

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 87.2 / 91
p0 1.271 ± 0.2506
pull
Entries 92
Mean 133.8
Std Dev 96.44
pull1D
Entries 92
Mean 0.009526
Std Dev 0.9735

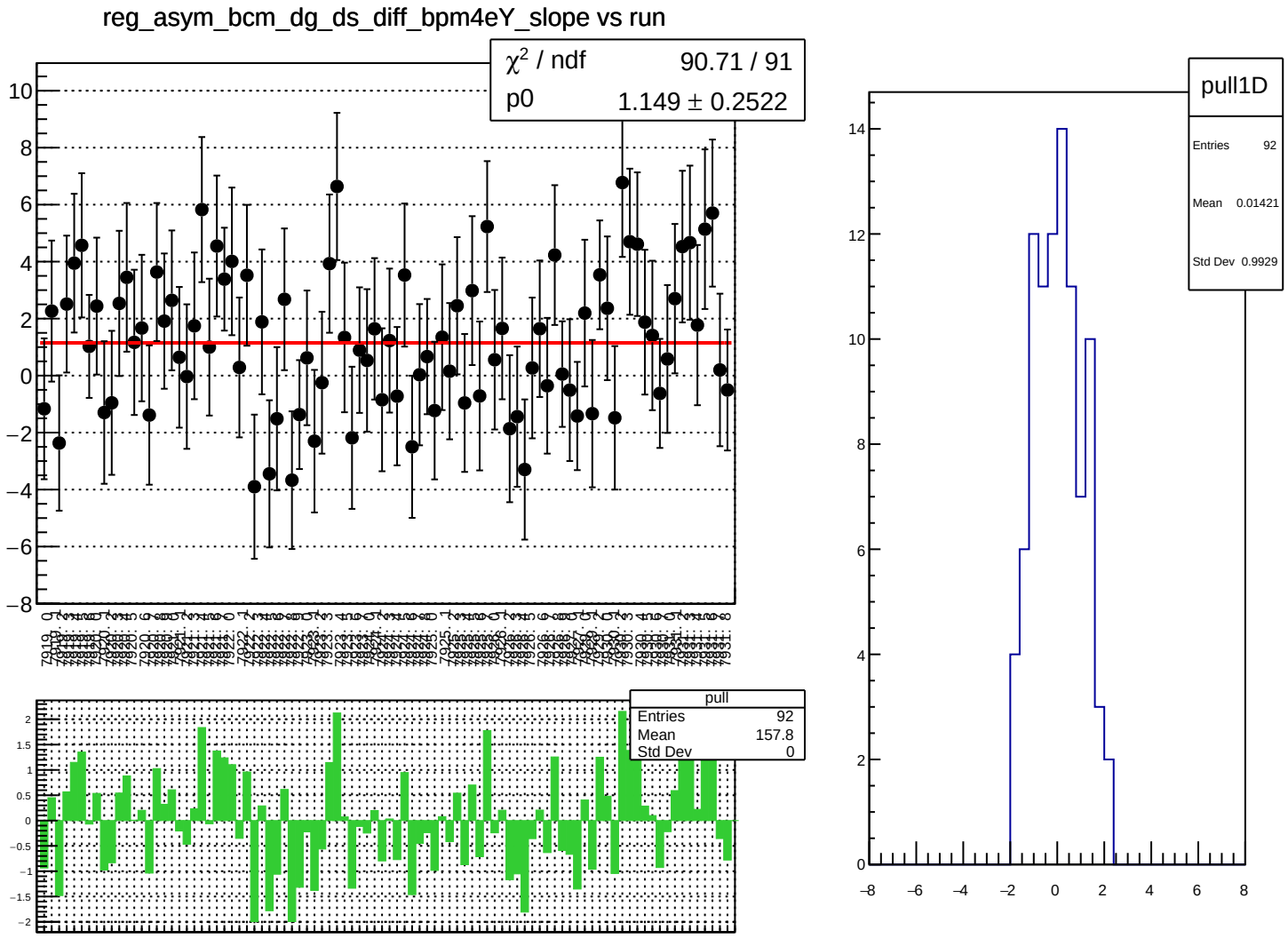

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 112.5 / 91
p0 0.2138 ± 0.007249
pull
Entries 92
Mean 137.5
Std Dev 80.03
pull1D
Entries 92
Mean 0.01377
Std Dev 1.106

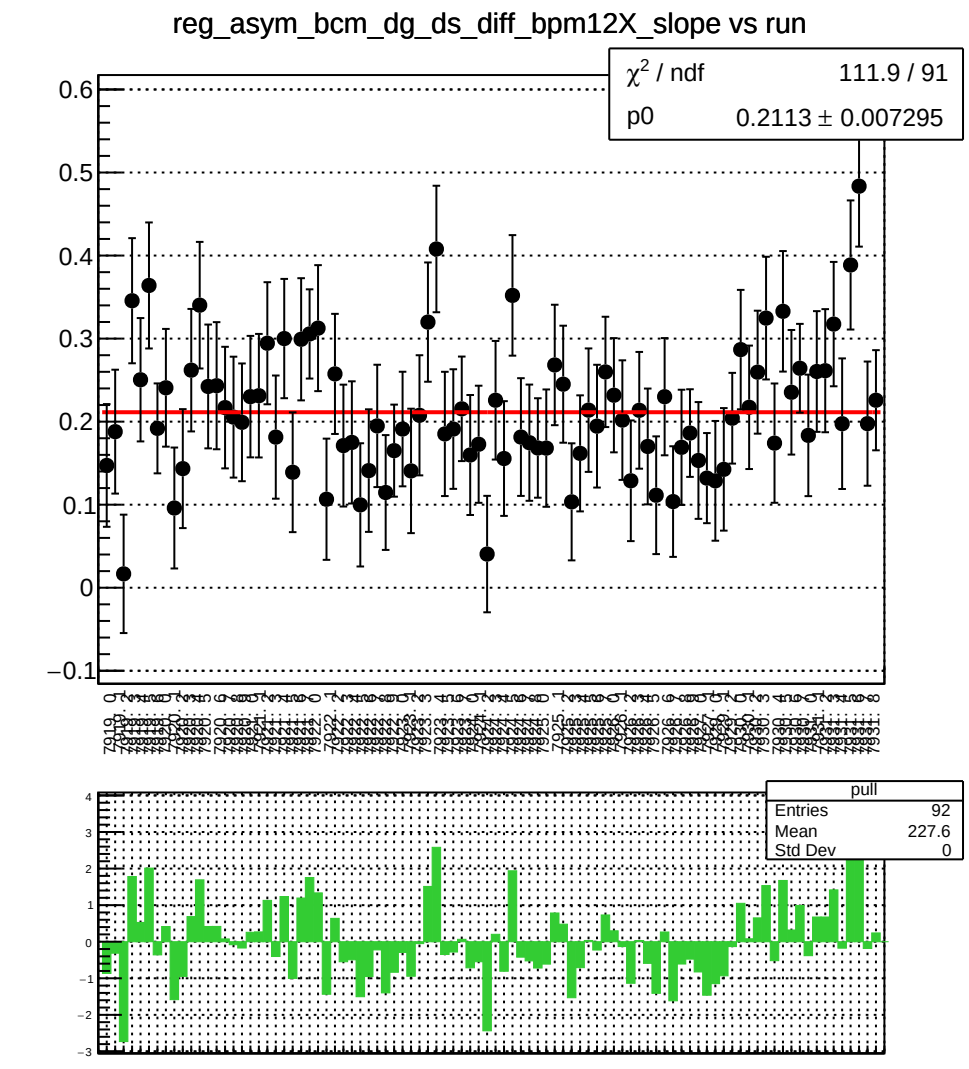

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 141.2 / 91
p0 10.27 ± 0.2128
pull
Entries 92
Mean 413.2
Std Dev 0
pull1D
Entries 92
Mean 0.02351
Std Dev 1.238

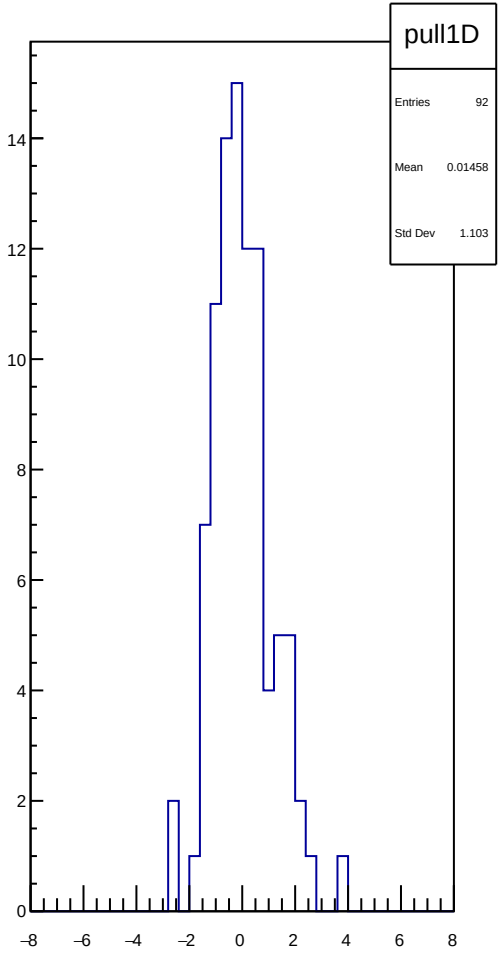

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 92.84 / 91
p0 −2.075 ± 0.2193
pull
Entries 92
Mean 157.8
Std Dev 0

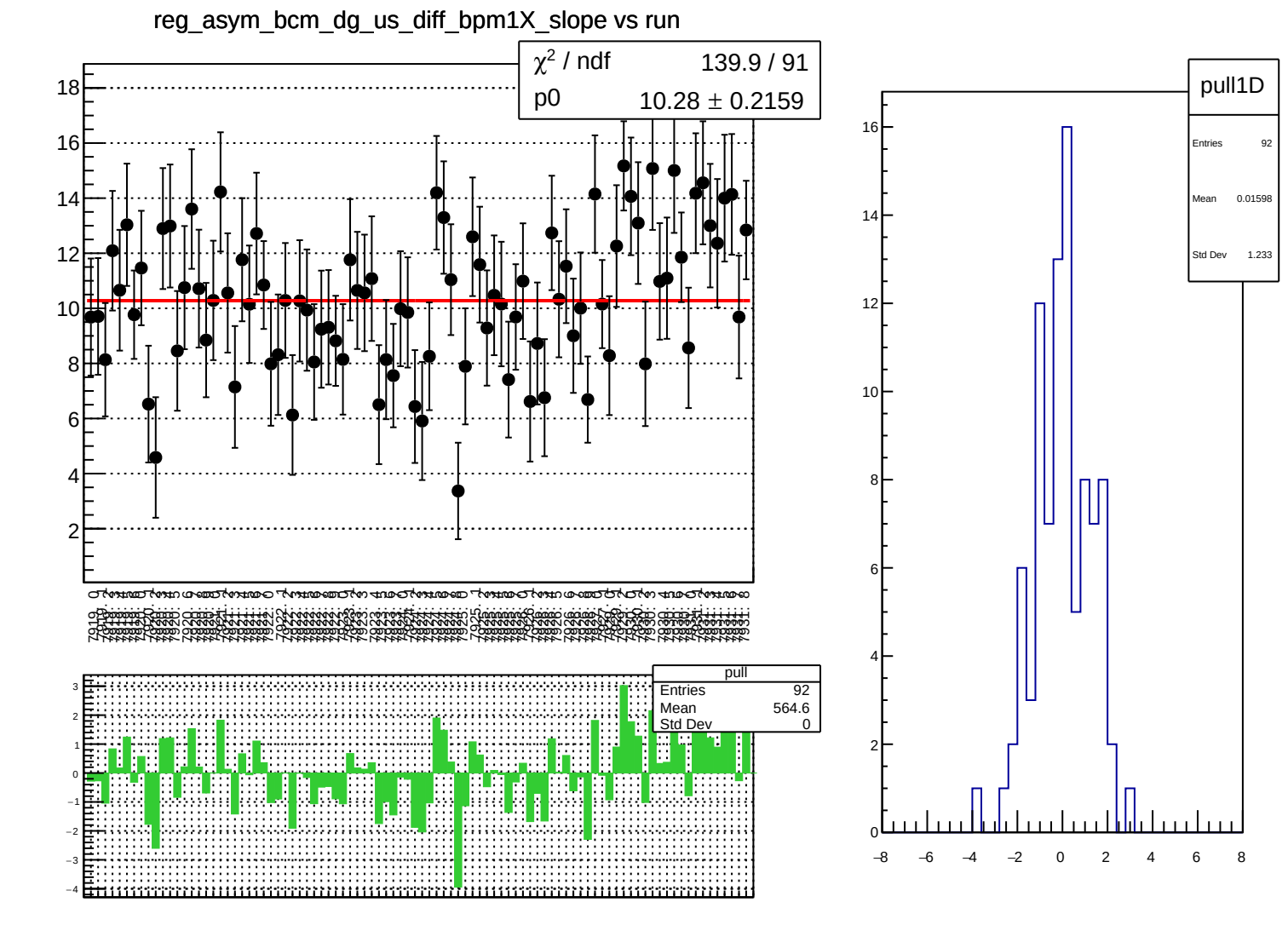

pull1D
Entries 92
Mean −0.01301
Std Dev 1.004

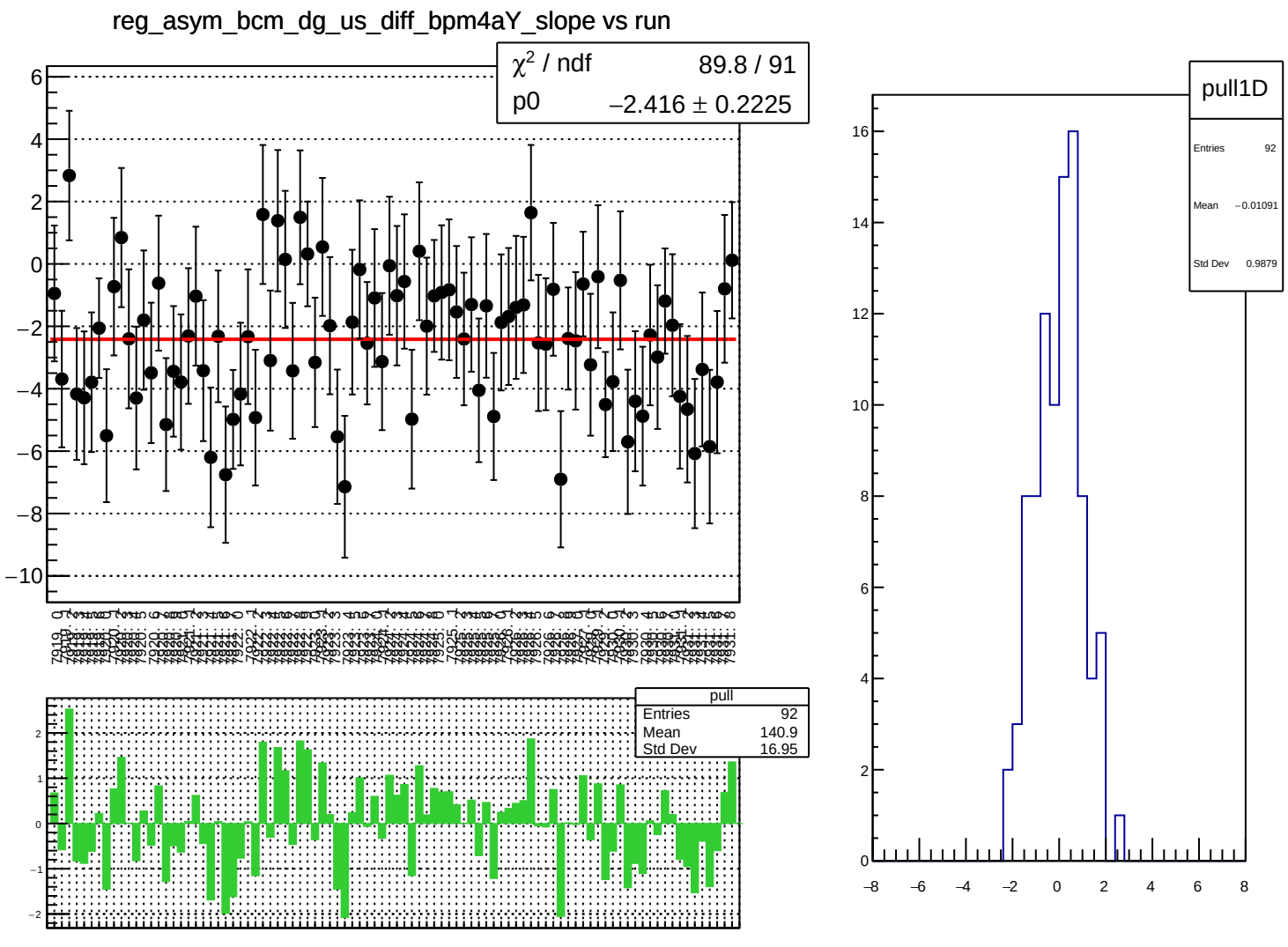

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 141 / 91
p0 −9.32 ± 0.1903
pull
Entries 92
Mean 385.1
Std Dev 0
pull1D
Entries 92
Mean −0.02482
Std Dev 1.238

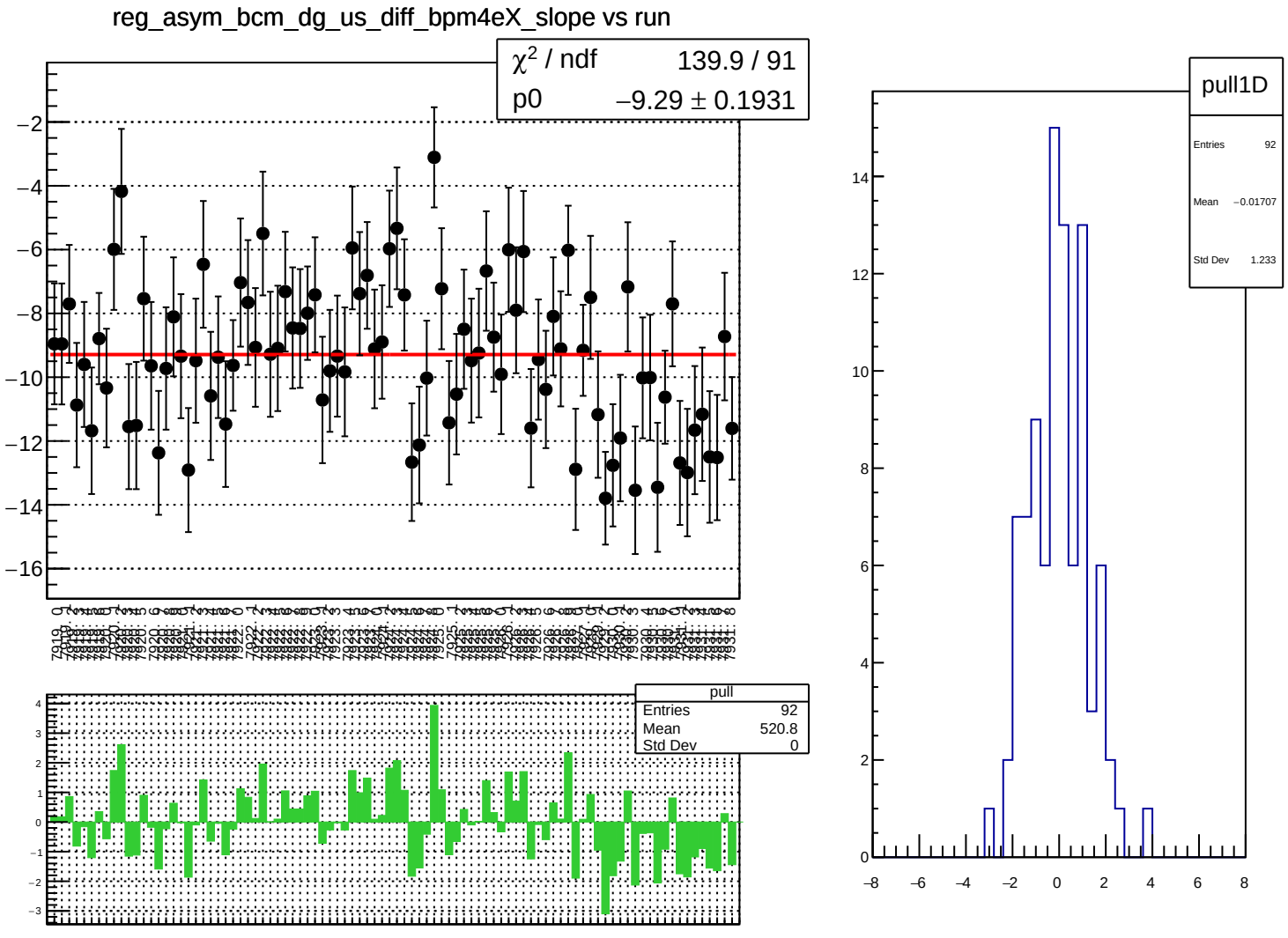

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 90.71 / 91
p0 1.149 ± 0.2522
pull
Entries 92
Mean 157.8
Std Dev 0
pull1D
Entries 92
Mean 0.01421
Std Dev 0.9929

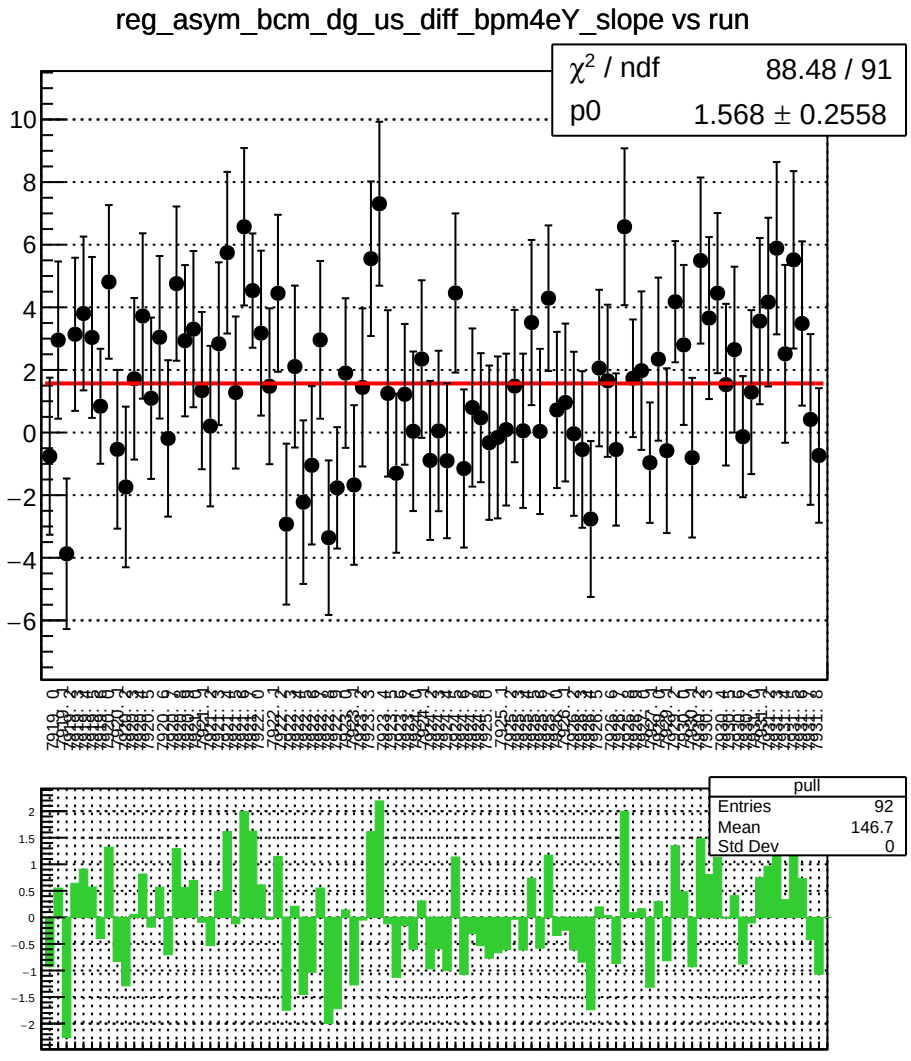

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 111.9 / 91
p0 0.2113 ± 0.007295
pull
Entries 92
Mean 227.6
Std Dev 0

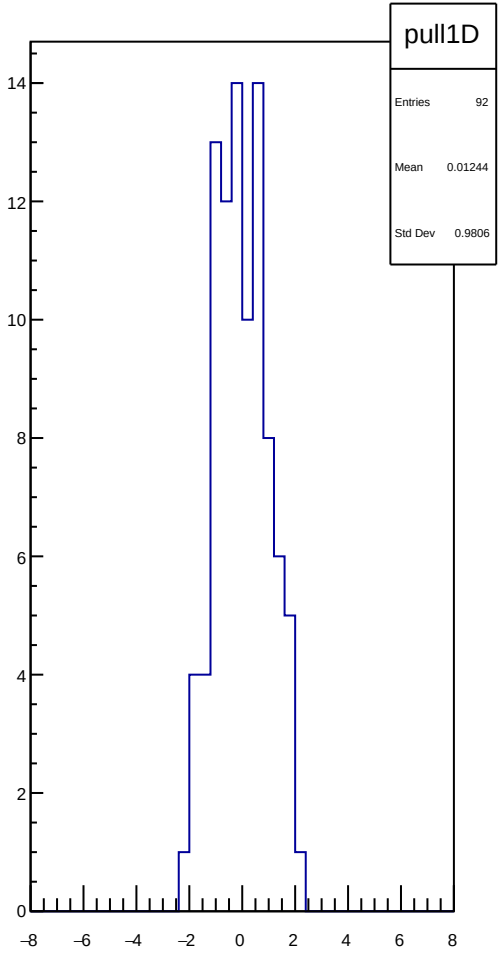

pull1D
Entries 92
Mean 0.01458
Std Dev 1.103

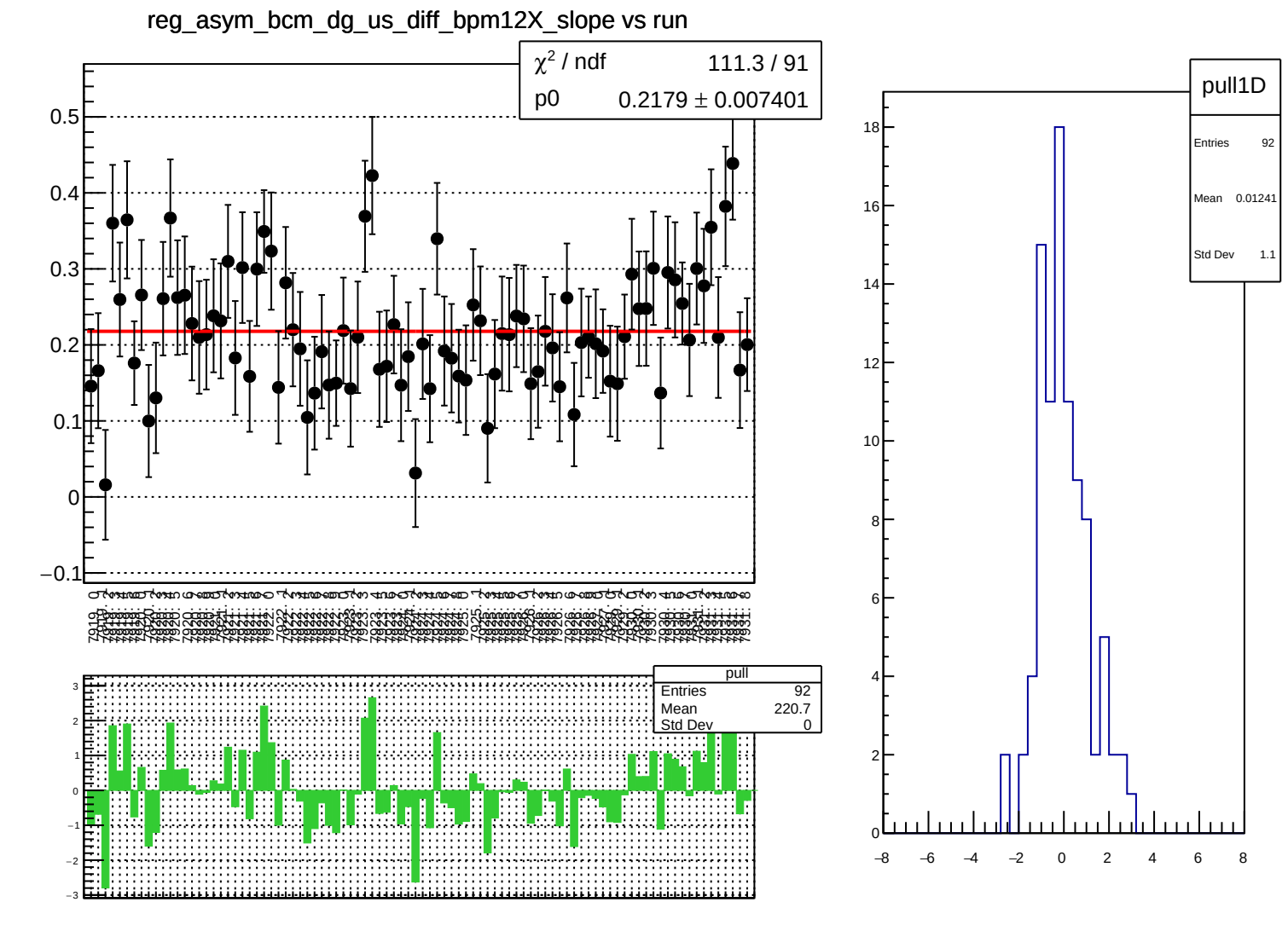

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 139.9 / 91
p0 10.28 ± 0.2159
pull
Entries 92
Mean 564.6
Std Dev 0
pull1D
Entries 92
Mean 0.01598
Std Dev 1.233

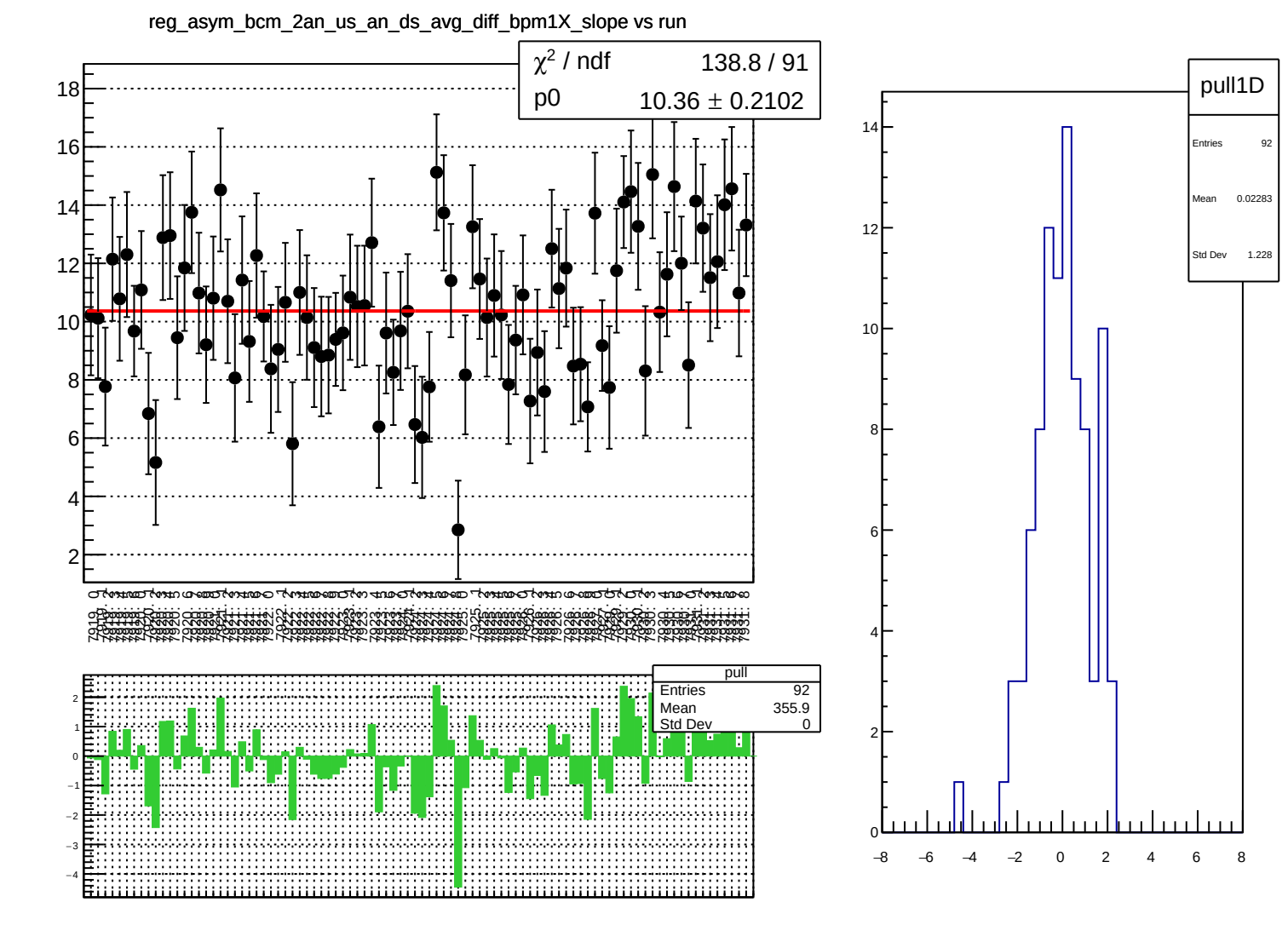

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 89.8 / 91
p0 −2.416 ± 0.2225
pull
Entries 92
Mean 140.9
Std Dev 16.95
pull1D
Entries 92
Mean −0.01091
Std Dev 0.9879

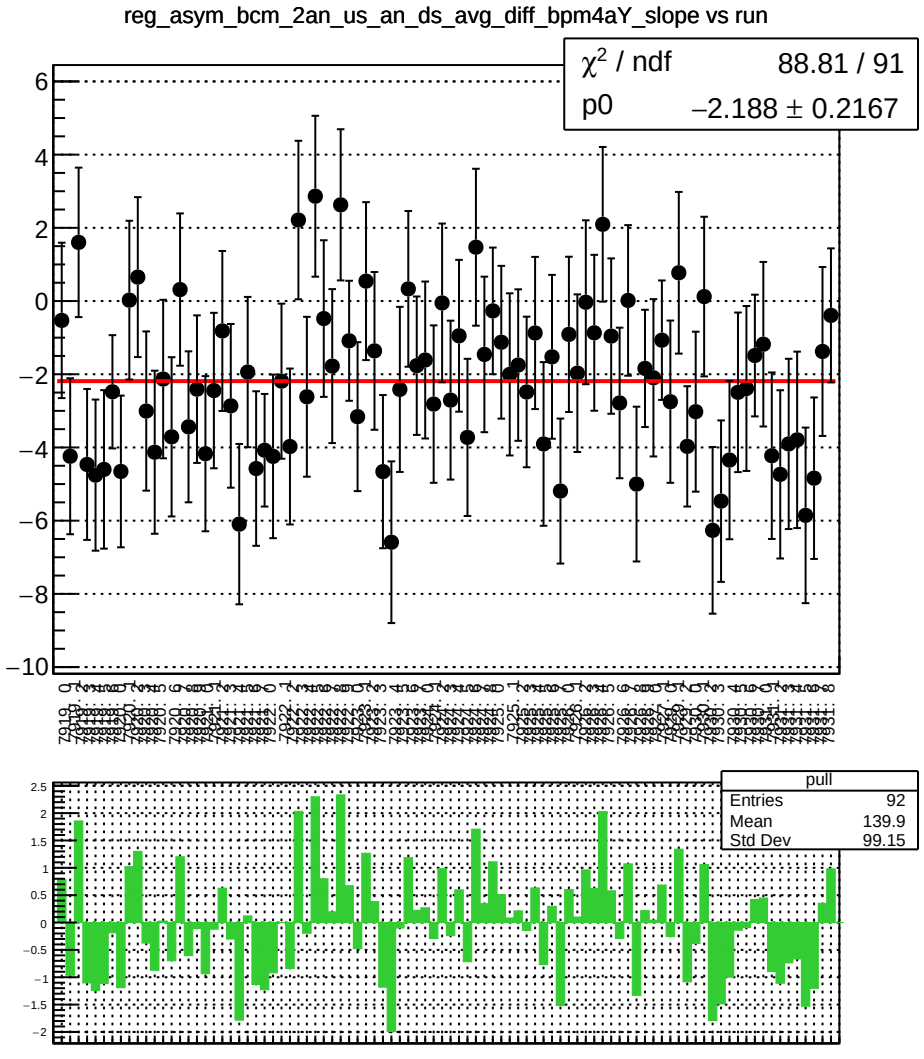

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 139.9 / 91
p0 −9.29 ± 0.1931
pull
Entries 92
Mean 520.8
Std Dev 0
pull1D
Entries 92
Mean −0.01707
Std Dev 1.233

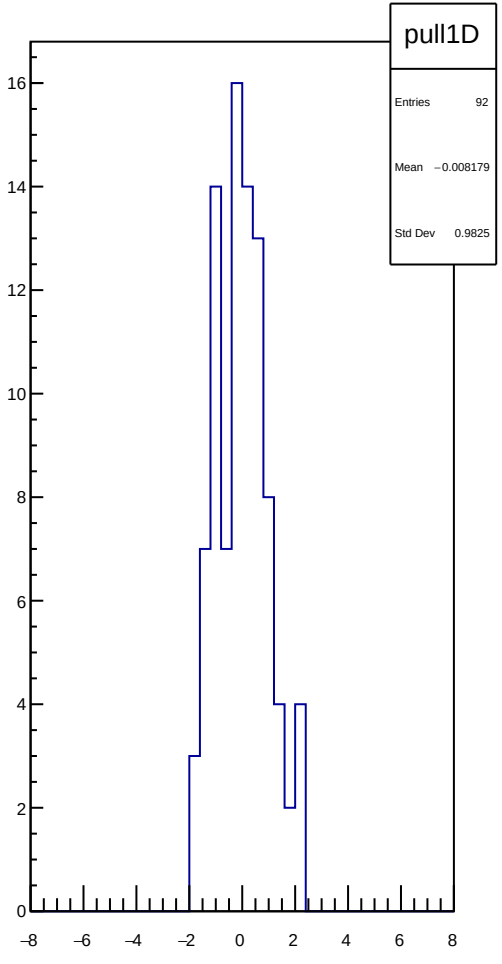

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 88.48 / 91
p0 1.568 ± 0.2558
pull
Entries 92
Mean 146.7
Std Dev 0

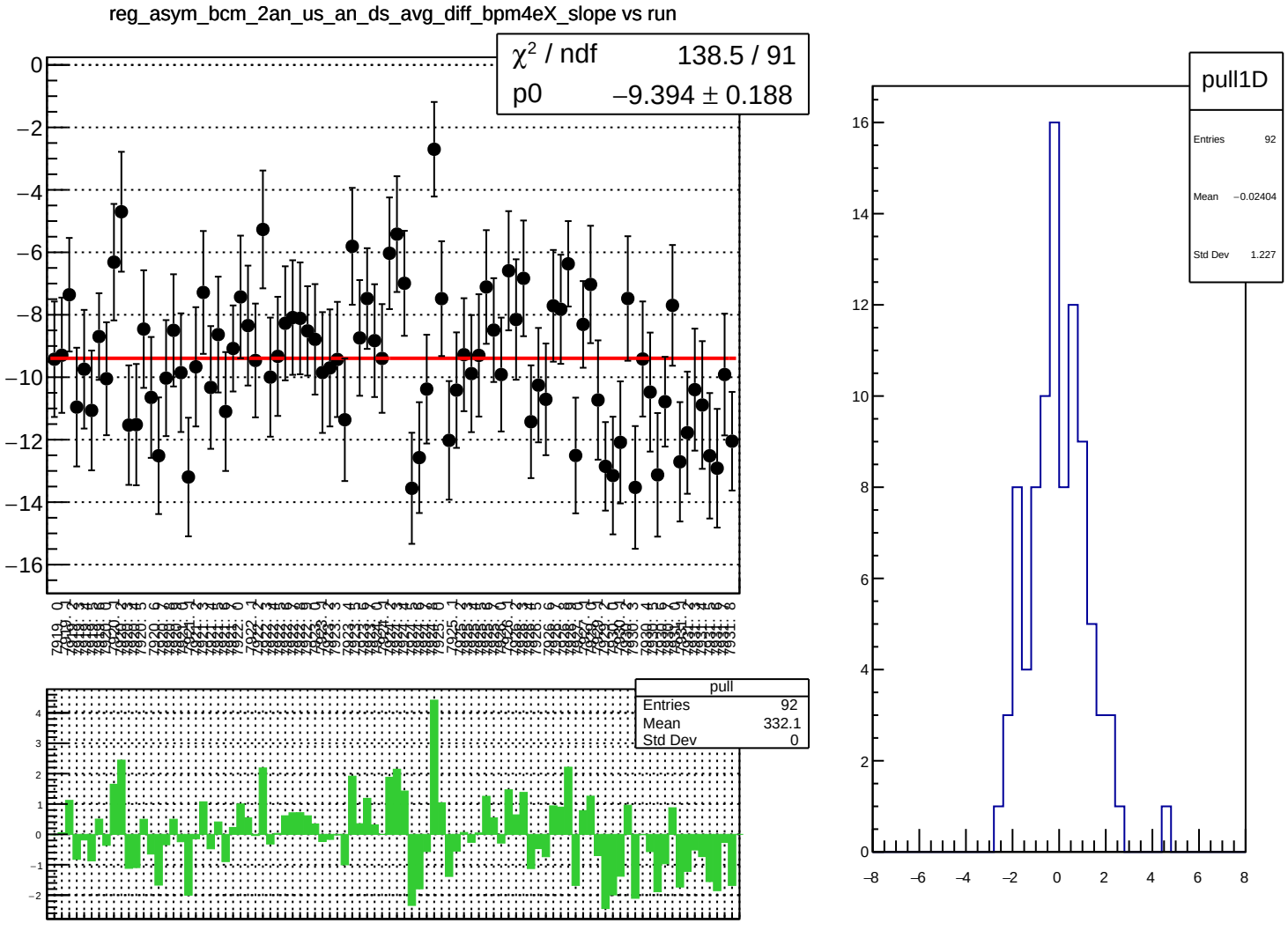

pull1D
Entries 92
Mean 0.01244
Std Dev 0.9806

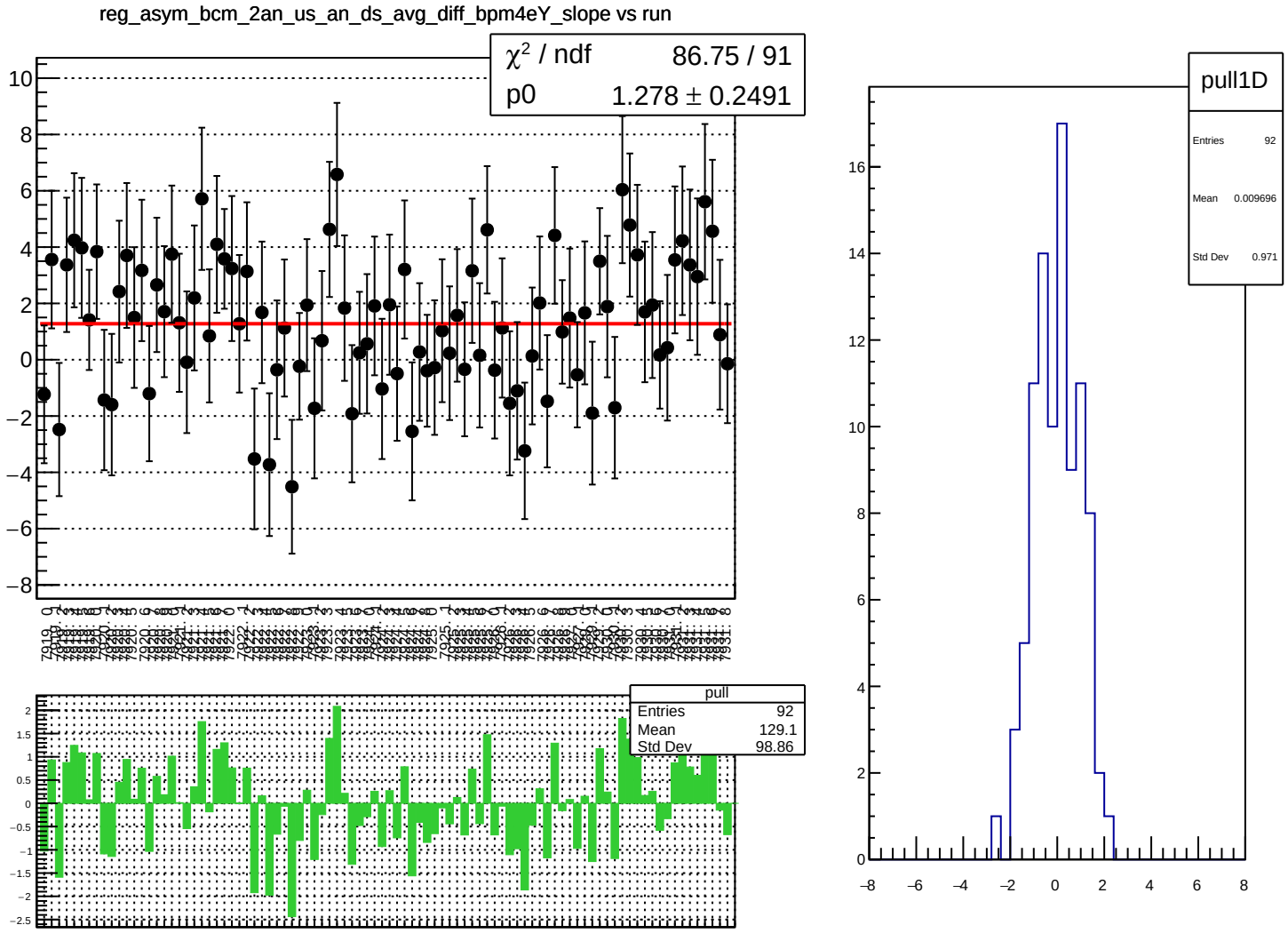

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 111.3 / 91
p0 0.2179 ± 0.007401
pull
Entries 92
Mean 220.7
Std Dev 0
pull1D
Entries 92
Mean 0.01241
Std Dev 1.1

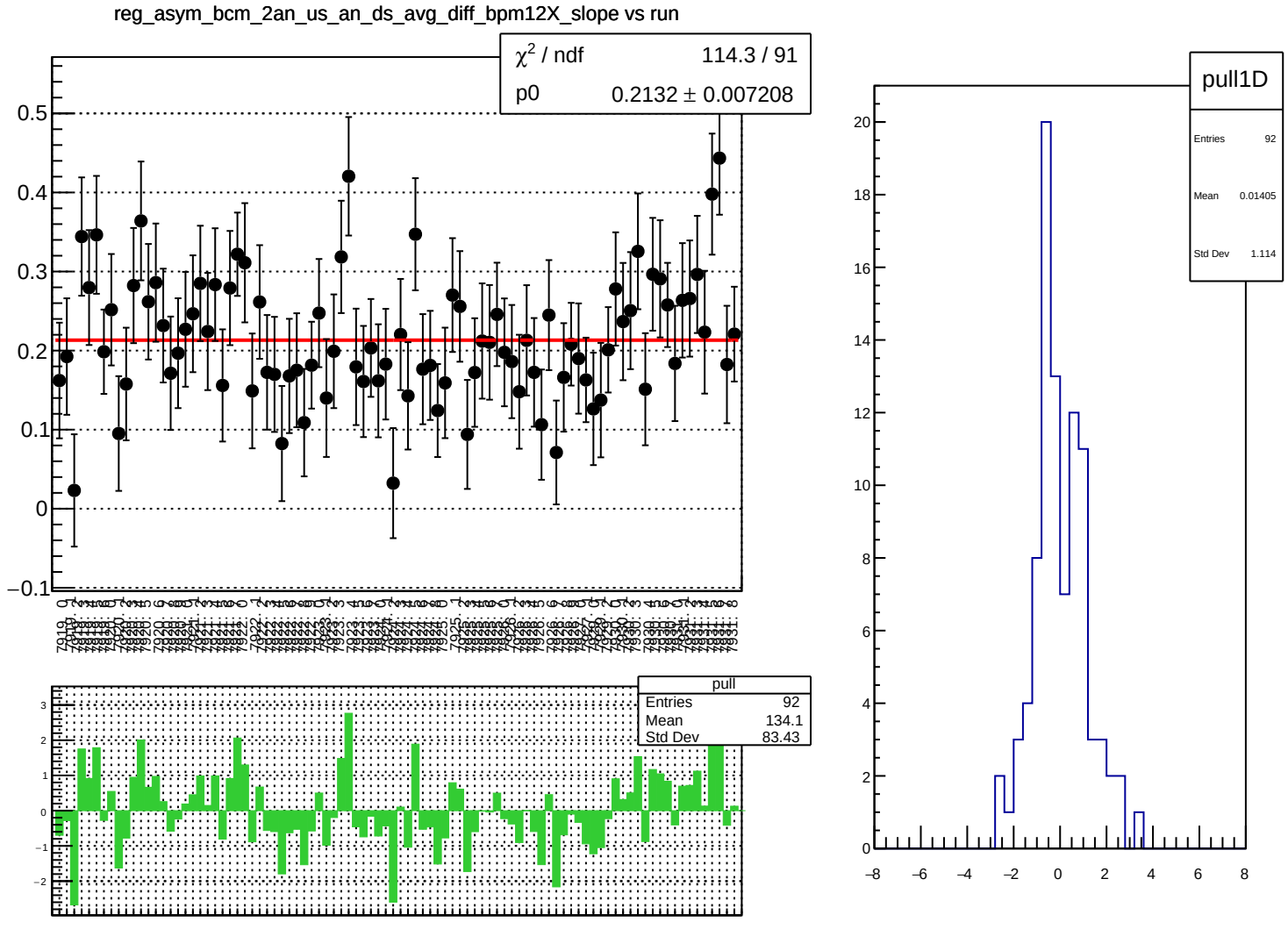

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 138.8 / 91
p0 10.36 ± 0.2102
pull
Entries 92
Mean 355.9
Std Dev 0
pull1D
Entries 92
Mean 0.02283
Std Dev 1.228

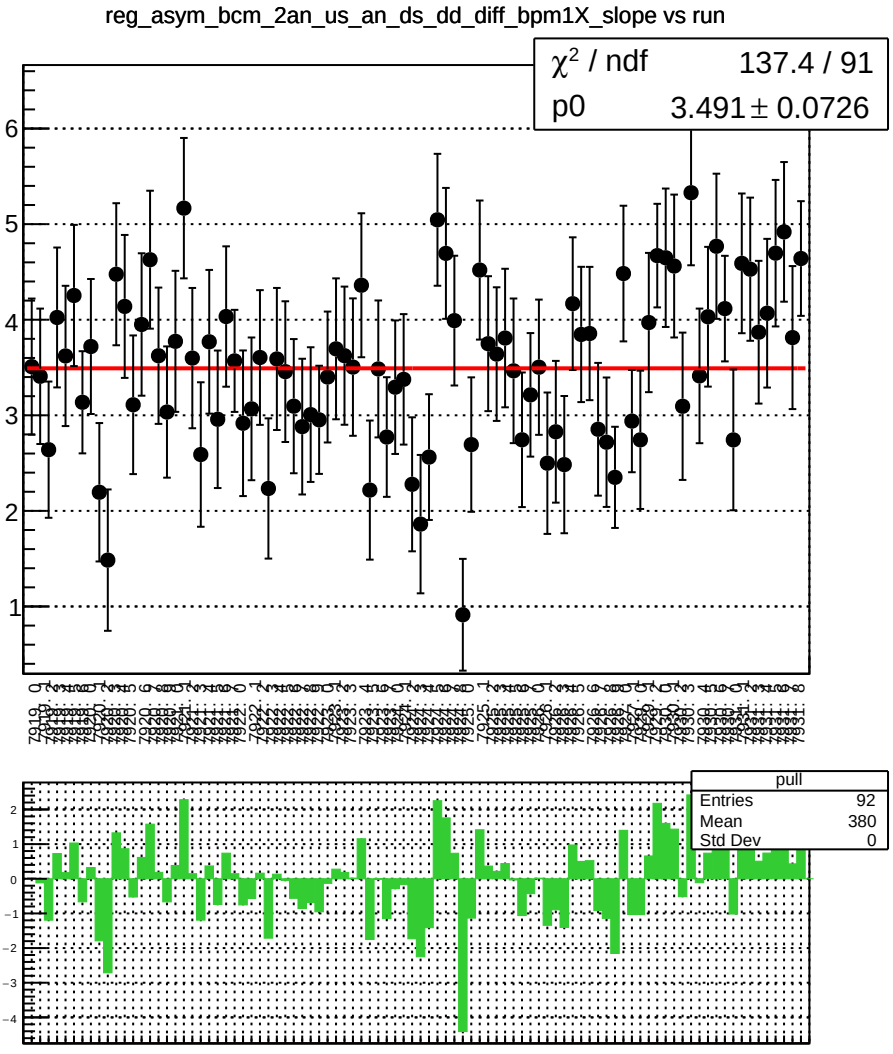

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 88.81 / 91
p0 −2.188 ± 0.2167
pull
Entries 92
Mean 139.9
Std Dev 99.15

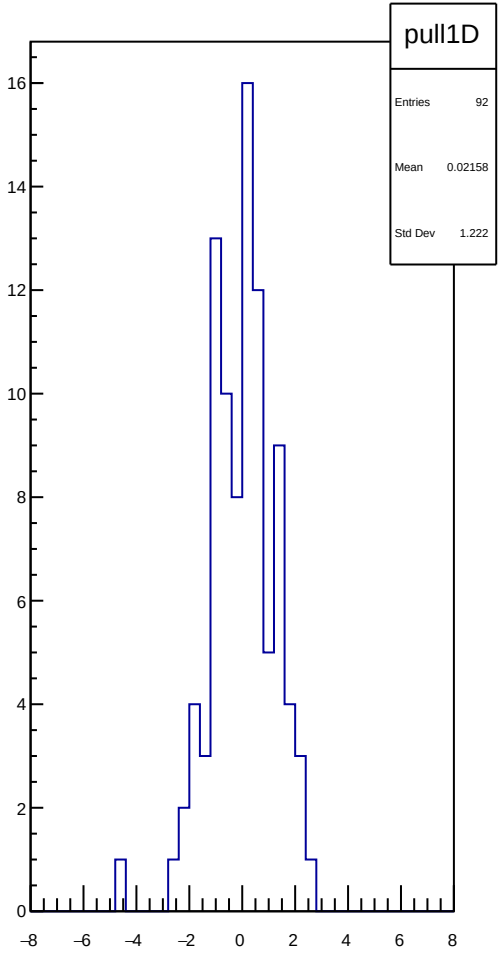

pull1D
Entries 92
Mean −0.008179
Std Dev 0.9825

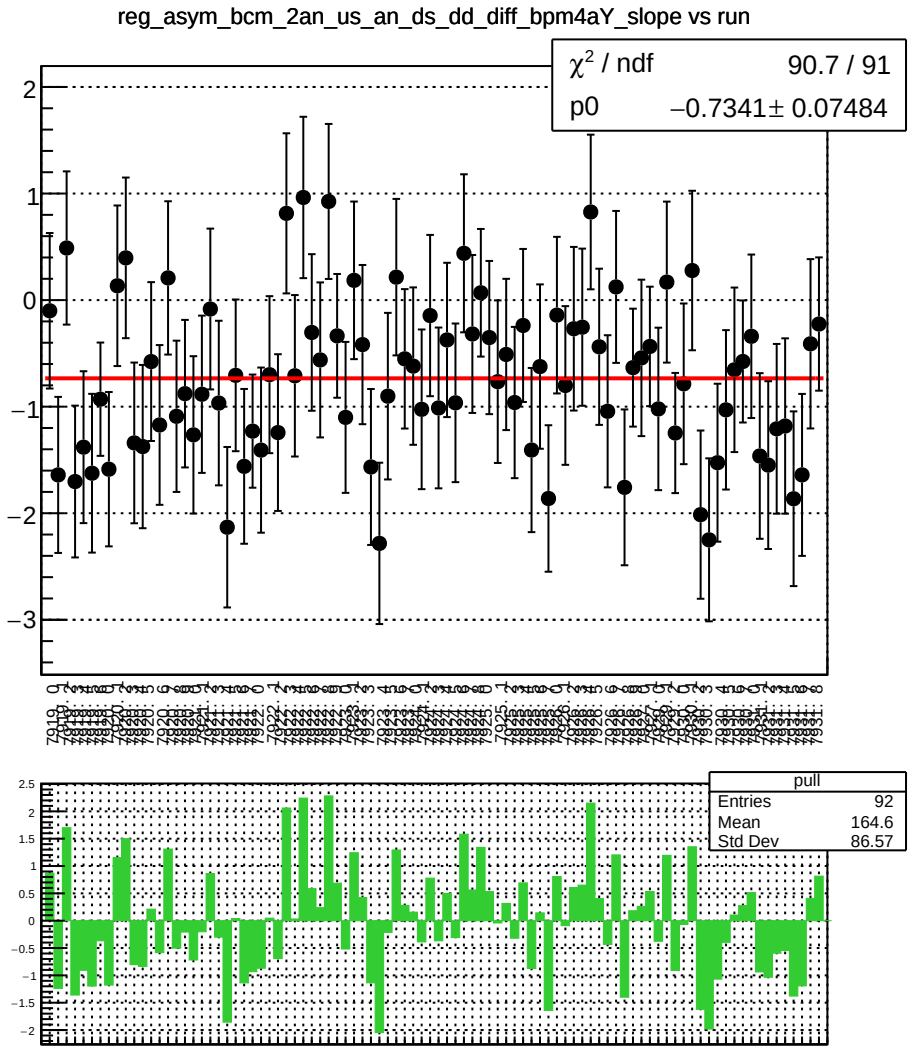

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 138.5 / 91
p0 −9.394 ± 0.188
pull
Entries 92
Mean 332.1
Std Dev 0
pull1D
Entries 92
Mean −0.02404
Std Dev 1.227

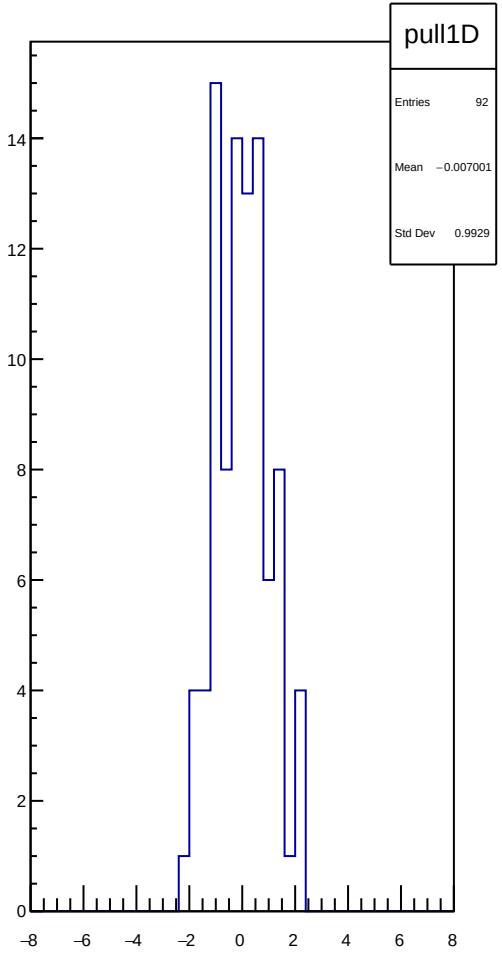

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 86.75 / 91
p0 1.278 ± 0.2491
pull
Entries 92
Mean 129.1
Std Dev 98.86
pull1D
Entries 92
Mean 0.009696
Std Dev 0.971

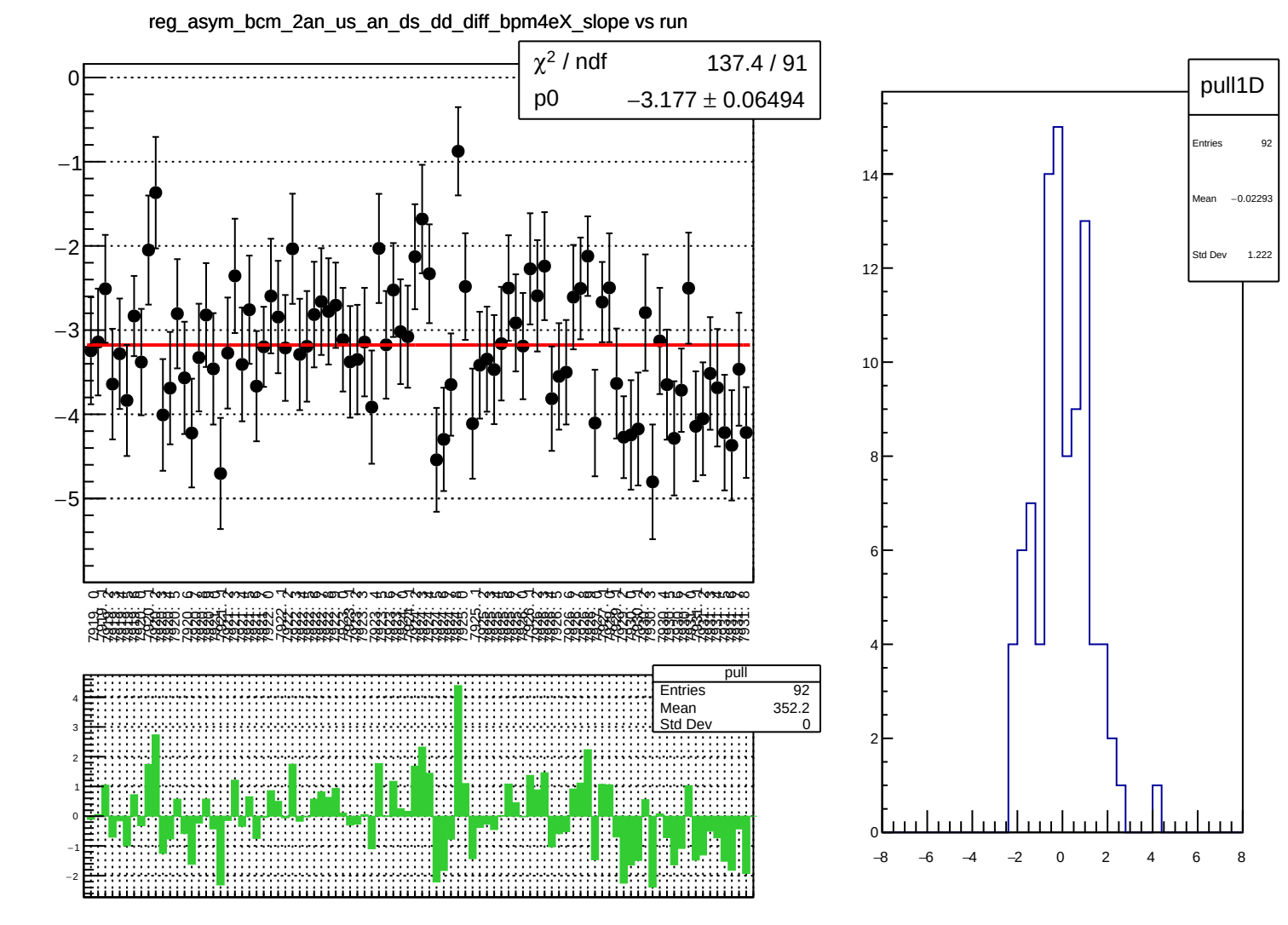

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 114.3 / 91
p0 0.2132 ± 0.007208
pull
Entries 92
Mean 134.1
Std Dev 83.43
pull1D
Entries 92
Mean 0.01405
Std Dev 1.114

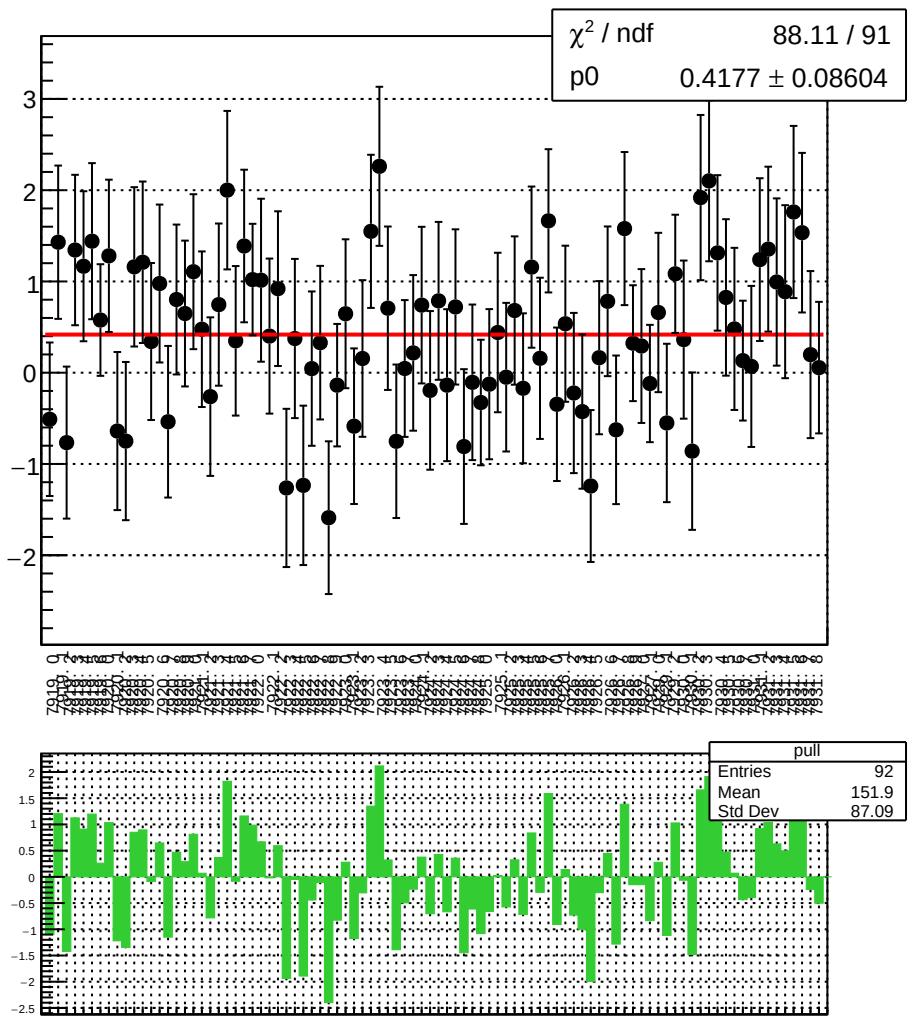

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 137.4 / 91
p0 3.491 ± 0.0726
pull
Entries 92
Mean 380
Std Dev 0

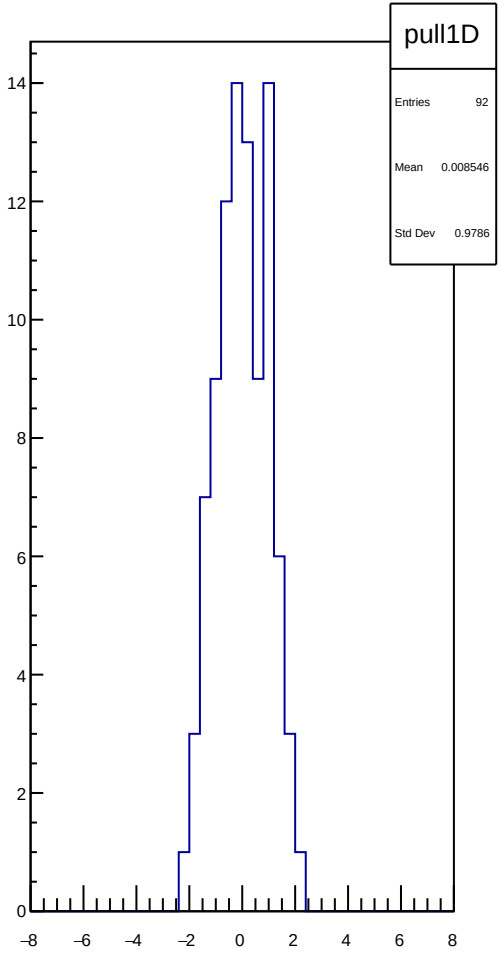

pull1D
Entries 92
Mean 0.02158
Std Dev 1.222

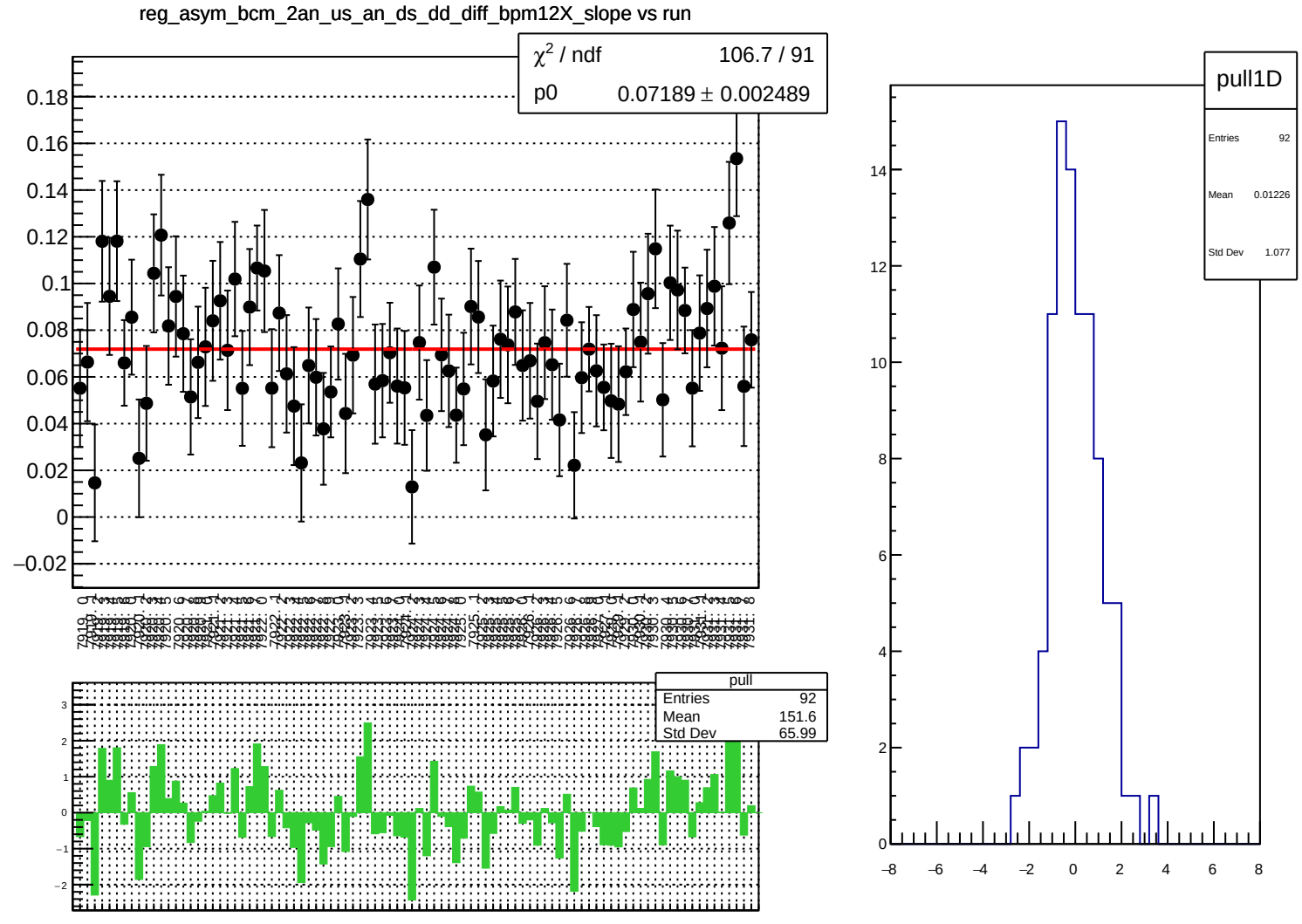

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 90.7 / 91
p0 −0.7341± 0.07484
pull
Entries 92
Mean 164.6
Std Dev 86.57

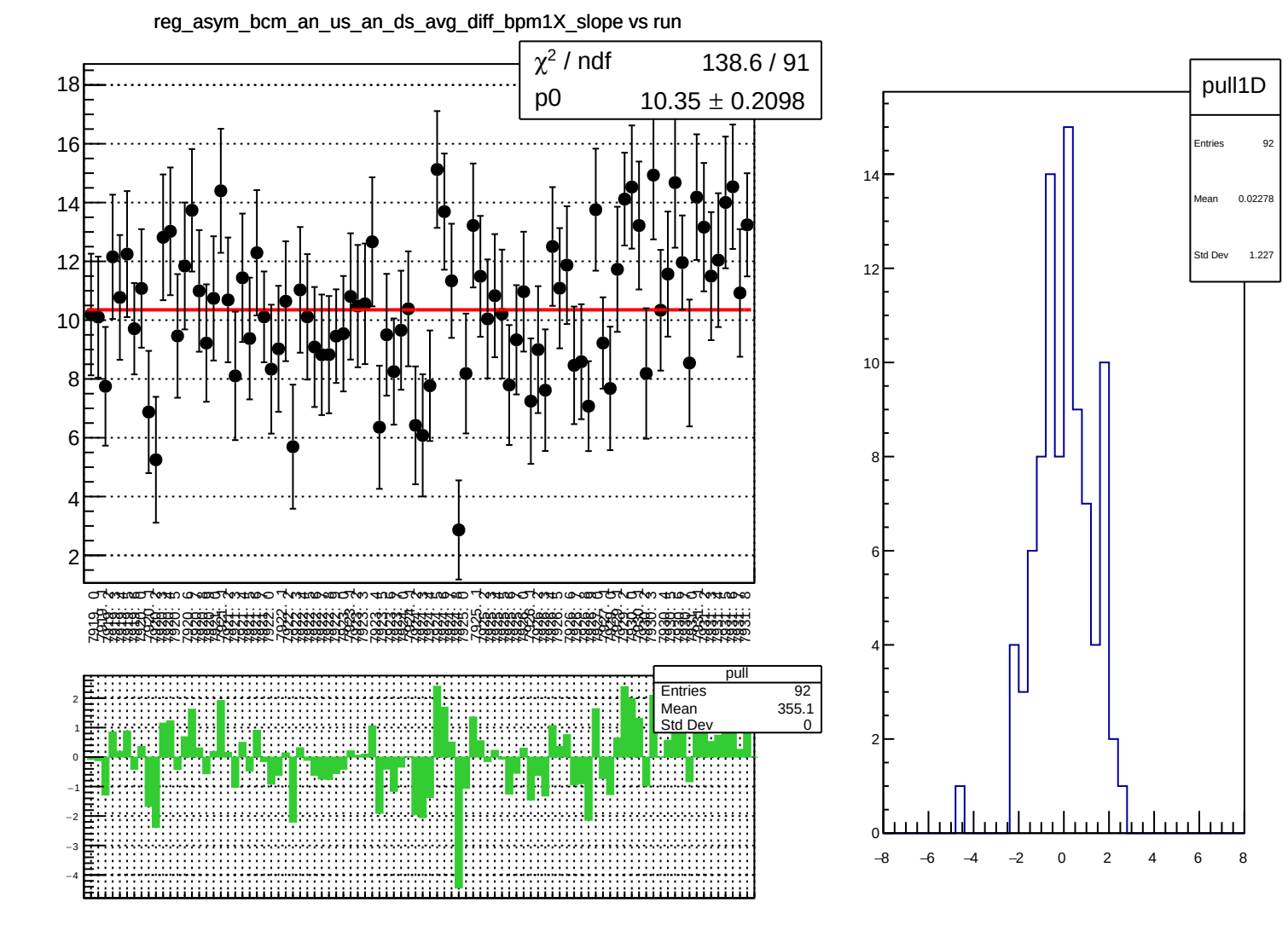

pull1D
Entries 92
Mean −0.007001
Std Dev 0.9929

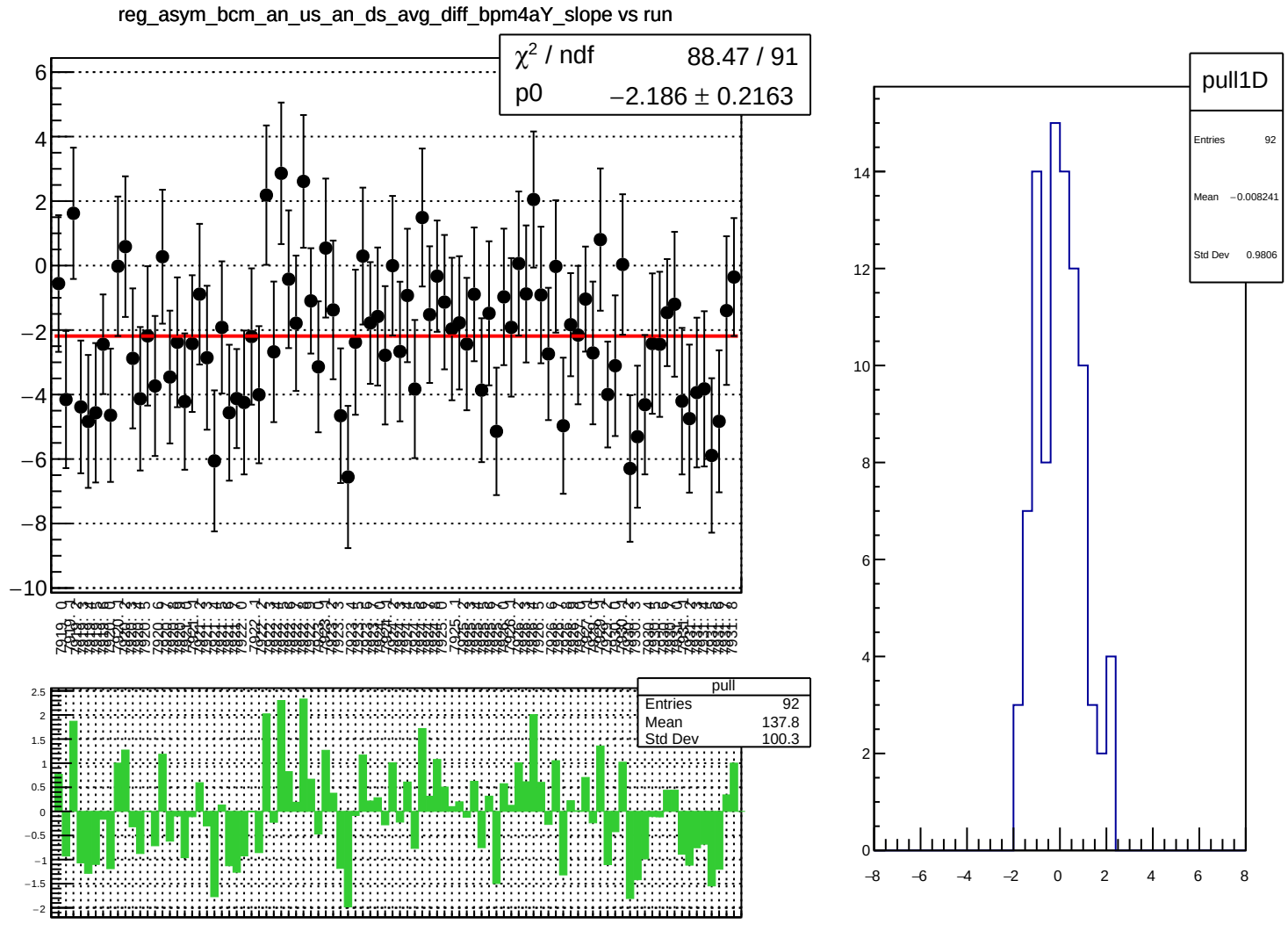

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 137.4 / 91
p0 −3.177 ± 0.06494
pull
Entries 92
Mean 352.2
Std Dev 0
pull1D
Entries 92
Mean −0.02293
Std Dev 1.222

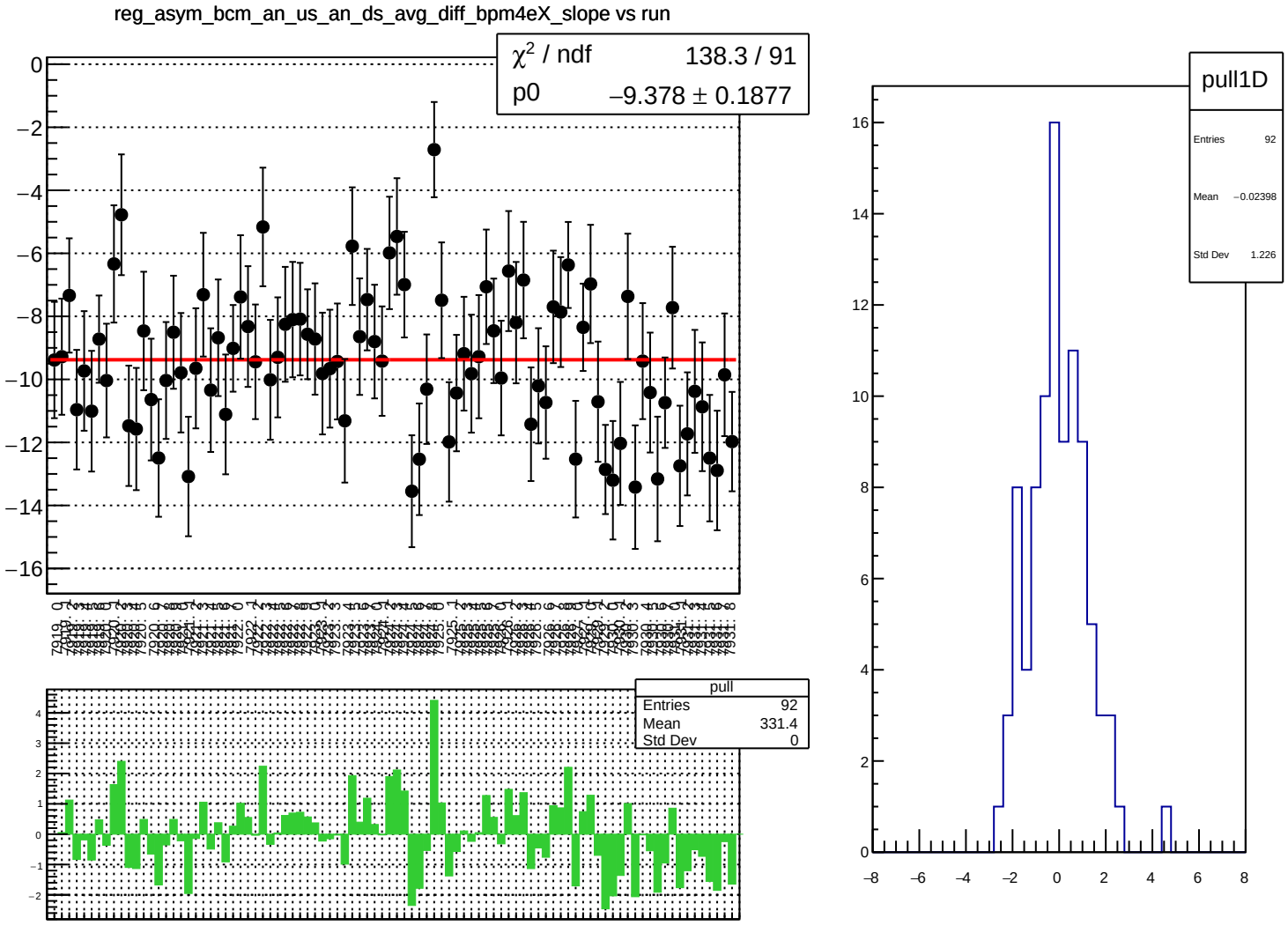

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 88.11 / 91
p0 0.4177 ± 0.08604
pull
Entries 92
Mean 151.9
Std Dev 87.09

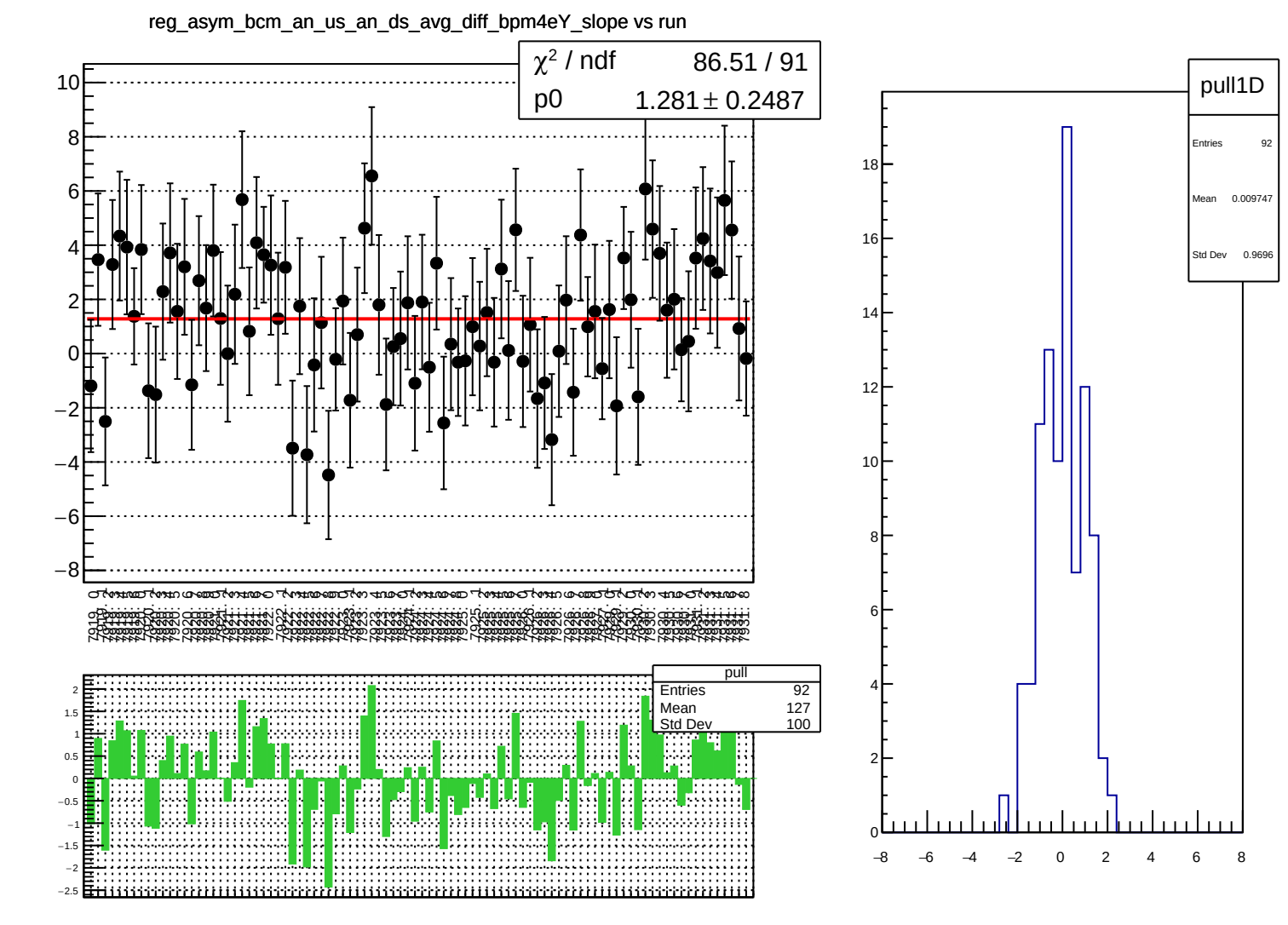

pull1D
Entries 92
Mean 0.008546
Std Dev 0.9786

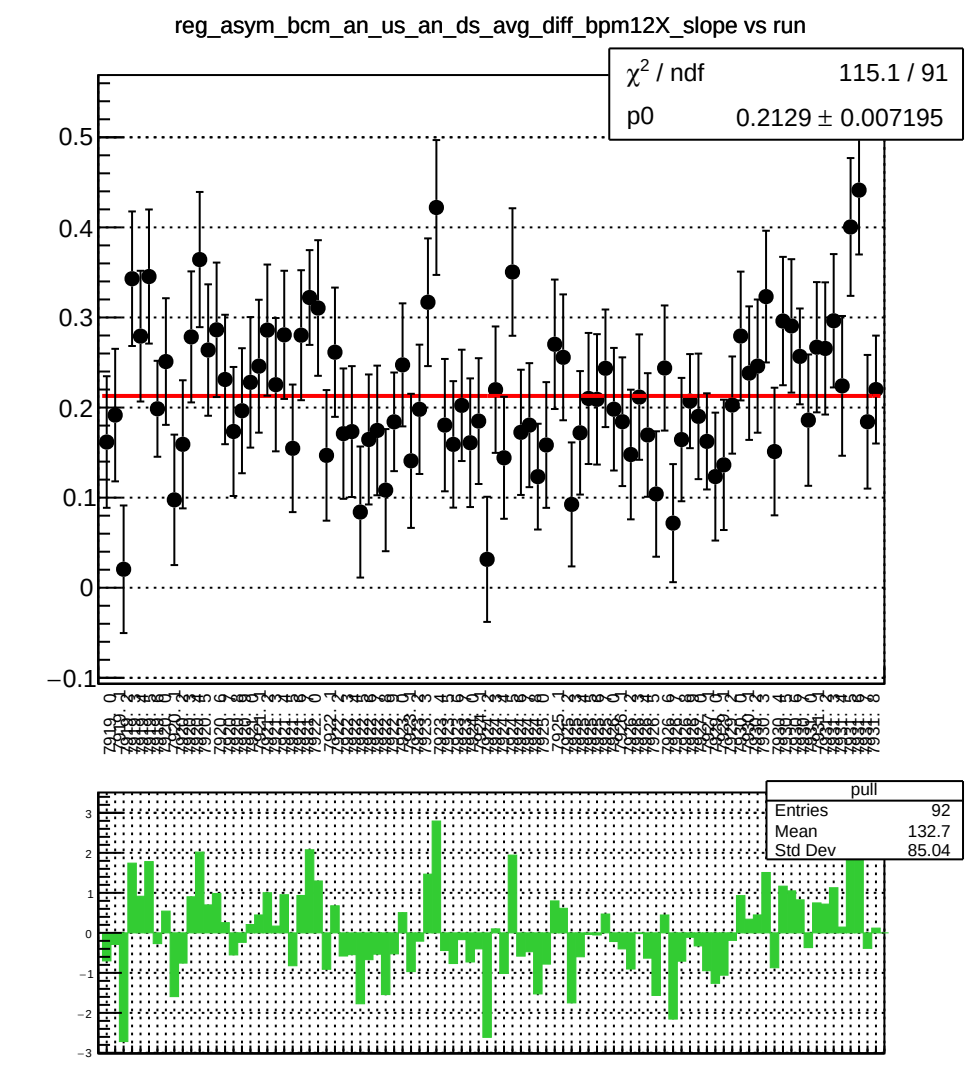

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 106.7 / 91
p0 0.07189 ± 0.002489
pull
Entries 92
Mean 151.6
Std Dev 65.99
pull1D
Entries 92
Mean 0.01226
Std Dev 1.077

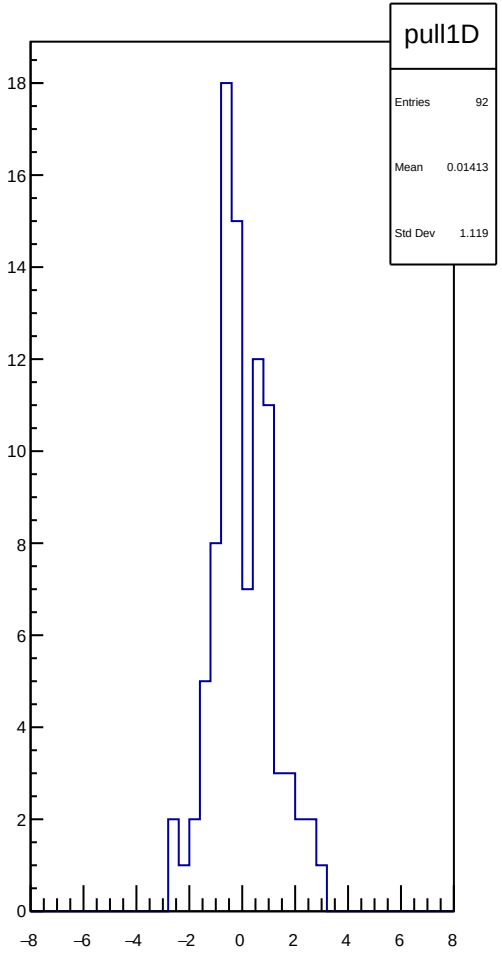

reg_asym_bcm_an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 138.6 / 91
p0 10.35 ± 0.2098
pull
Entries 92
Mean 355.1
Std Dev 0
pull1D
Entries 92
Mean 0.02278
Std Dev 1.227

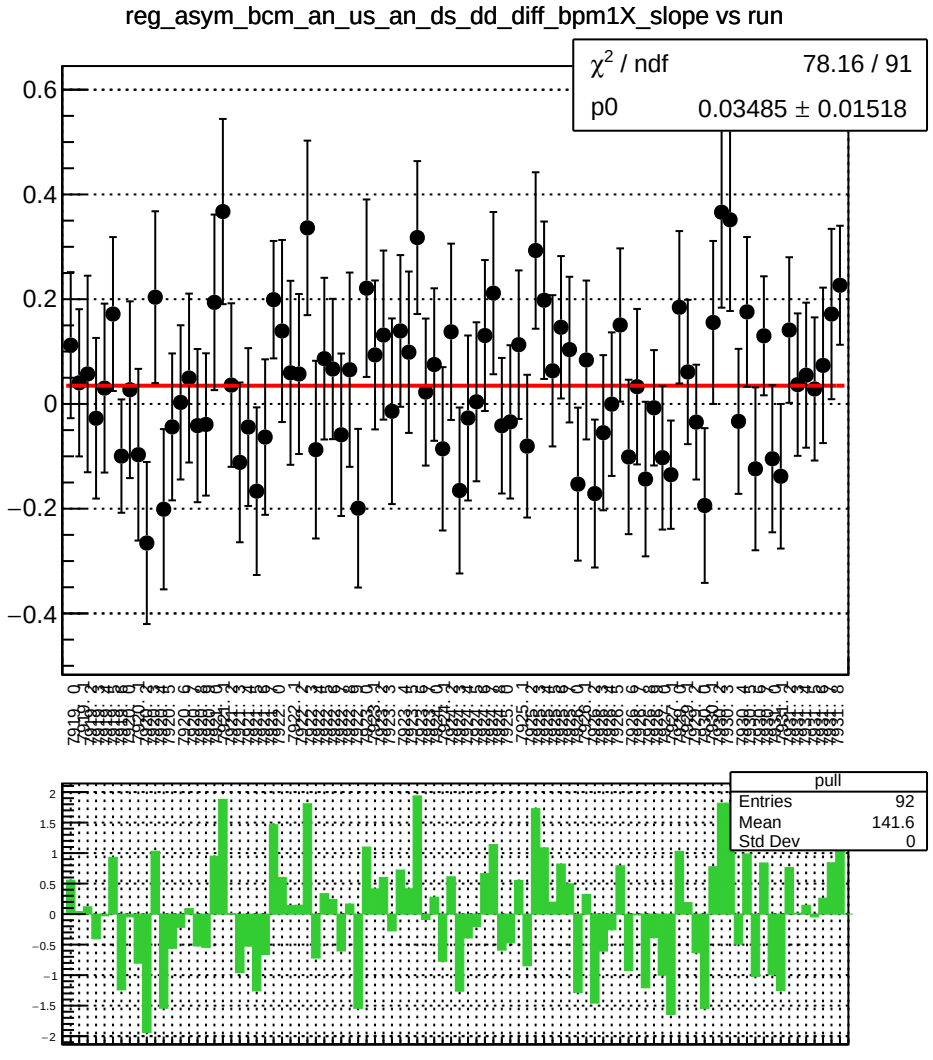

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 88.47 / 91
p0 −2.186 ± 0.2163
pull
Entries 92
Mean 137.8
Std Dev 100.3
pull1D
Entries 92
Mean −0.008241
Std Dev 0.9806

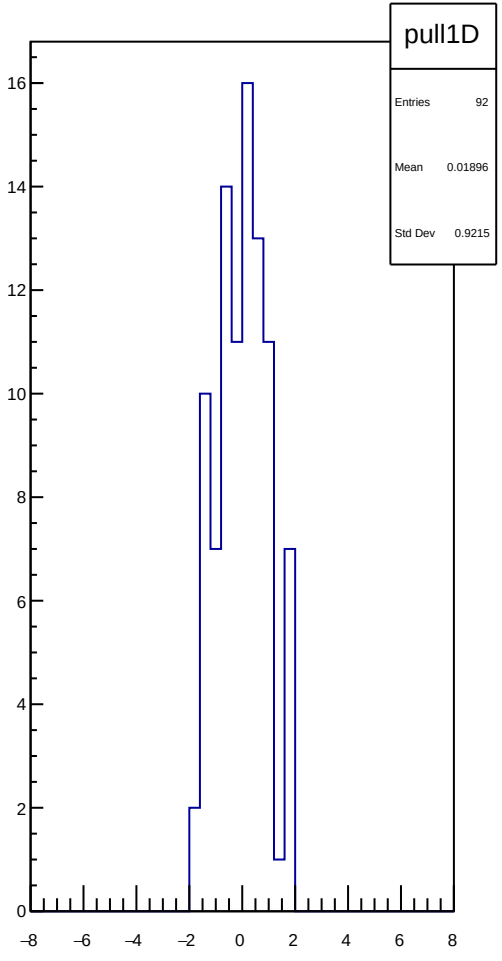

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 138.3 / 91
p0 −9.378 ± 0.1877
pull
Entries 92
Mean 331.4
Std Dev 0
pull1D
Entries 92
Mean −0.02398
Std Dev 1.226

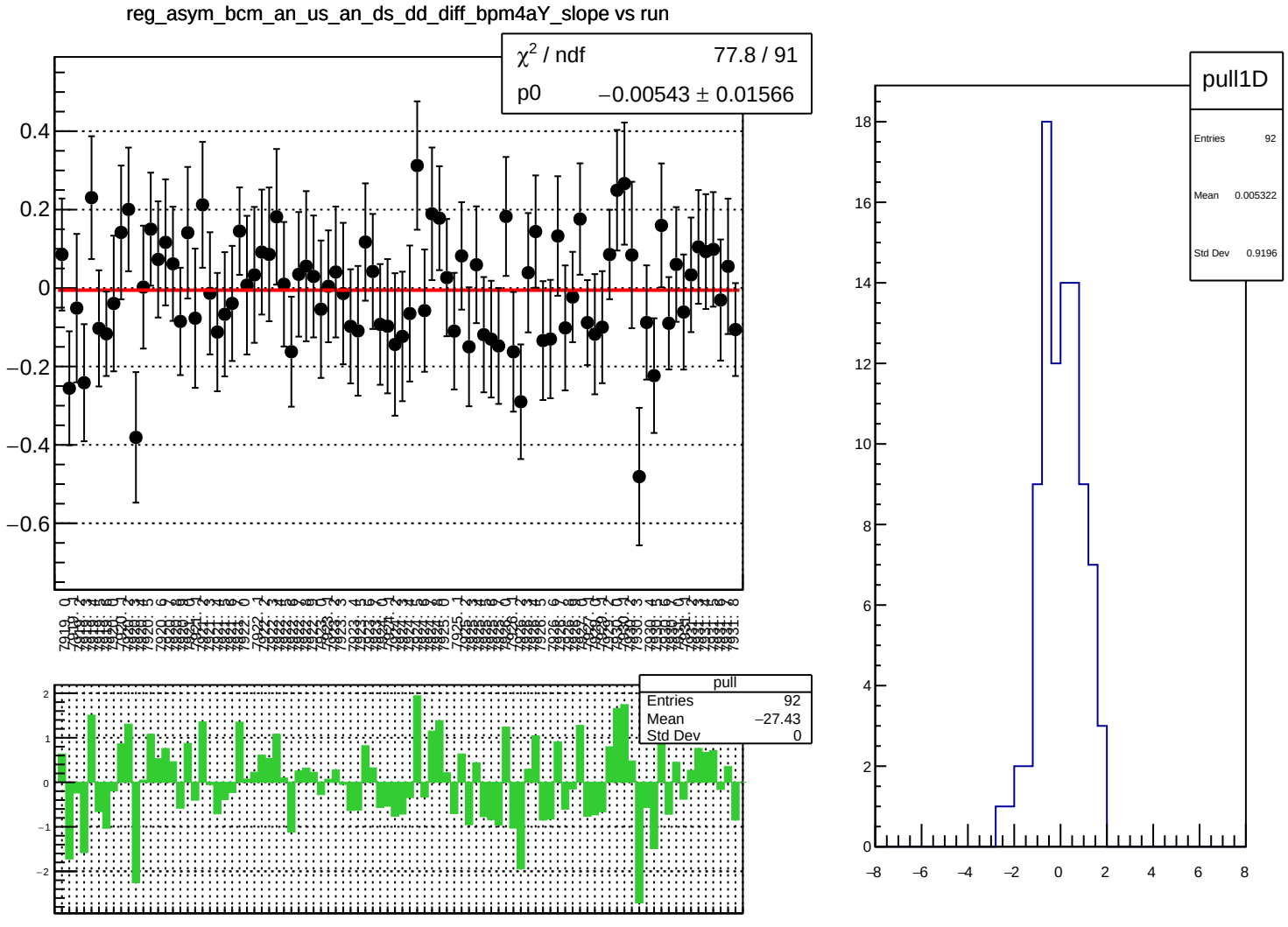

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 86.51 / 91
p0 1.281 ± 0.2487
pull
Entries 92
Mean 127
Std Dev 100
pull1D
Entries 92
Mean 0.009747
Std Dev 0.9696

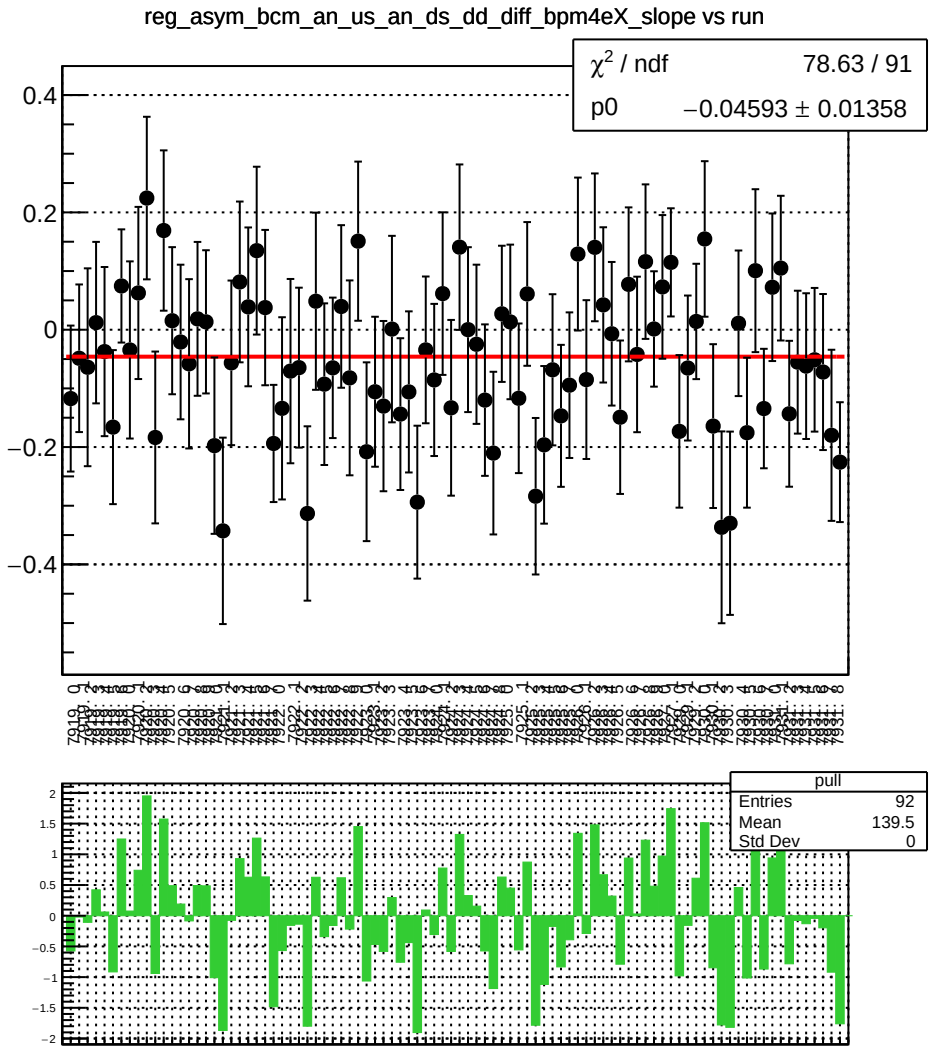

reg_asym_bcm_an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 115.1 / 91
p0 0.2129 ± 0.007195
pull
Entries 92
Mean 132.7
Std Dev 85.04

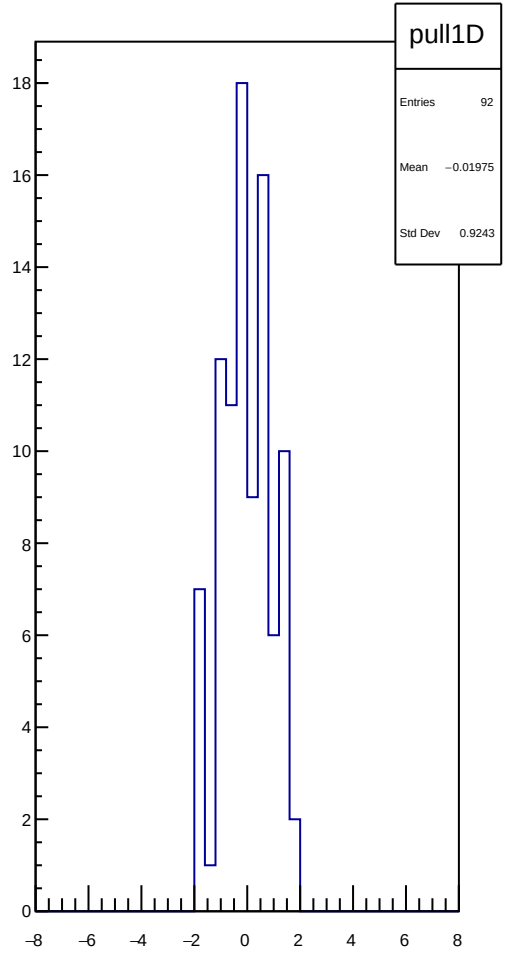

pull1D
Entries 92
Mean 0.01413
Std Dev 1.119

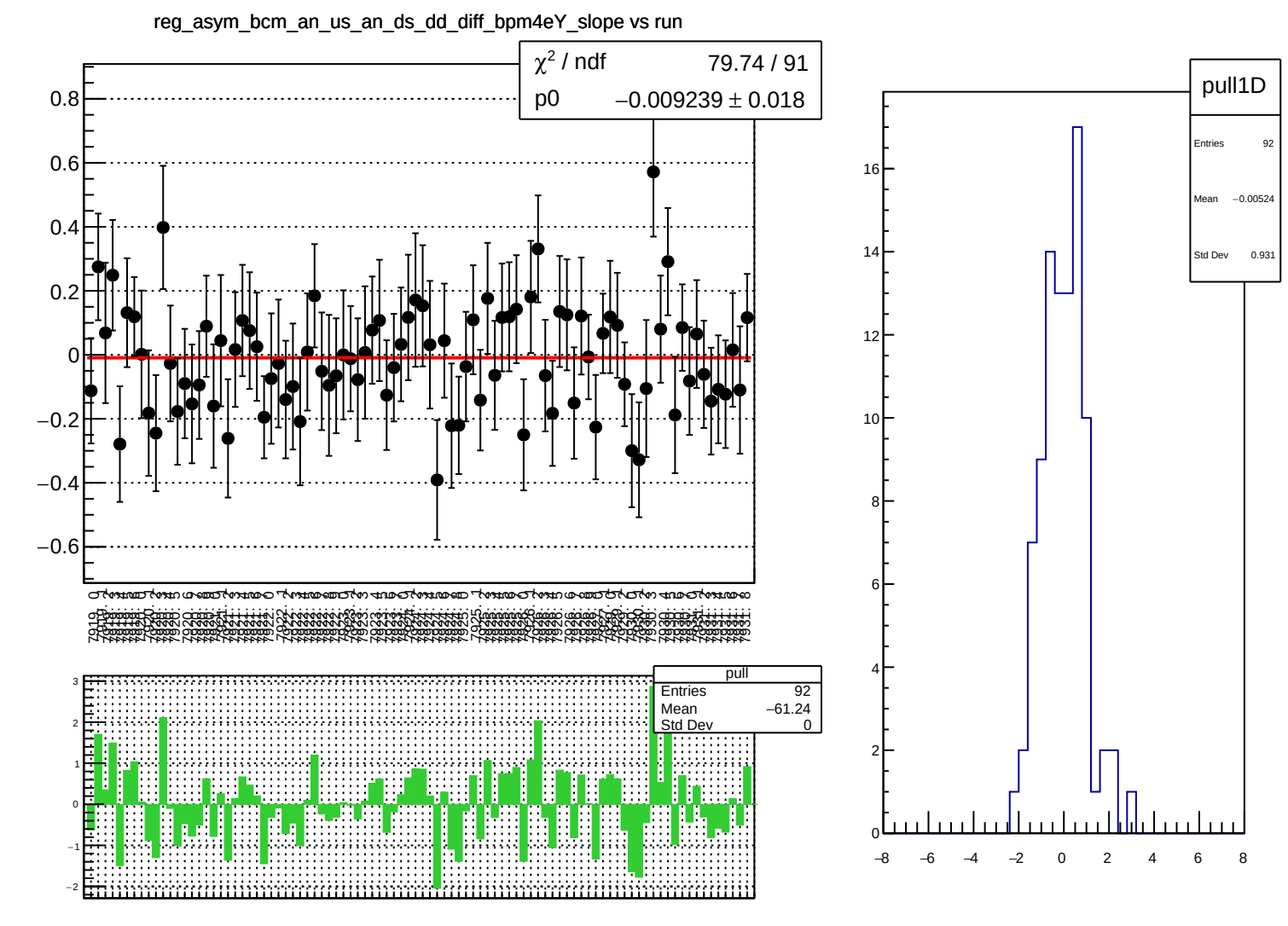

reg_asym_bcm_an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 78.16 / 91
p0 0.03485 ± 0.01518
pull
Entries 92
Mean 141.6
Std Dev 0

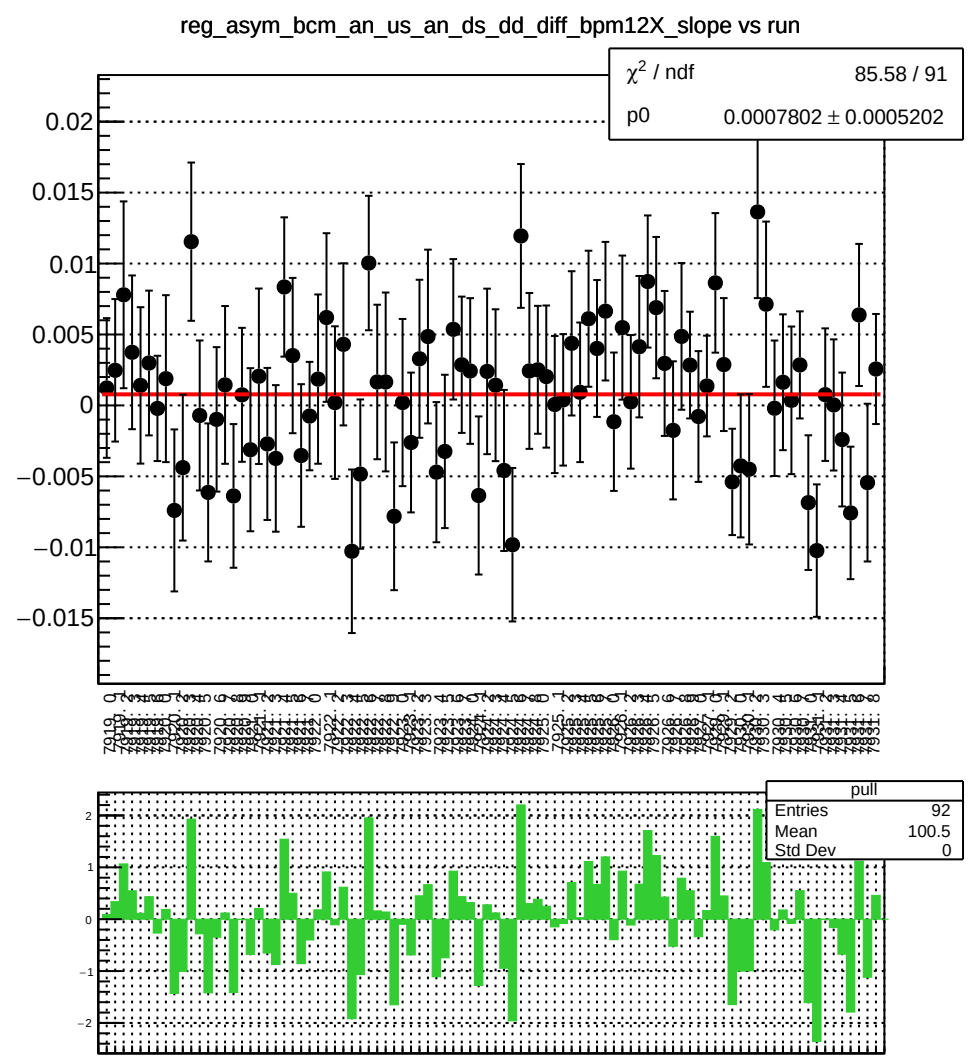

pull1D
Entries 92
Mean 0.01896
Std Dev 0.9215

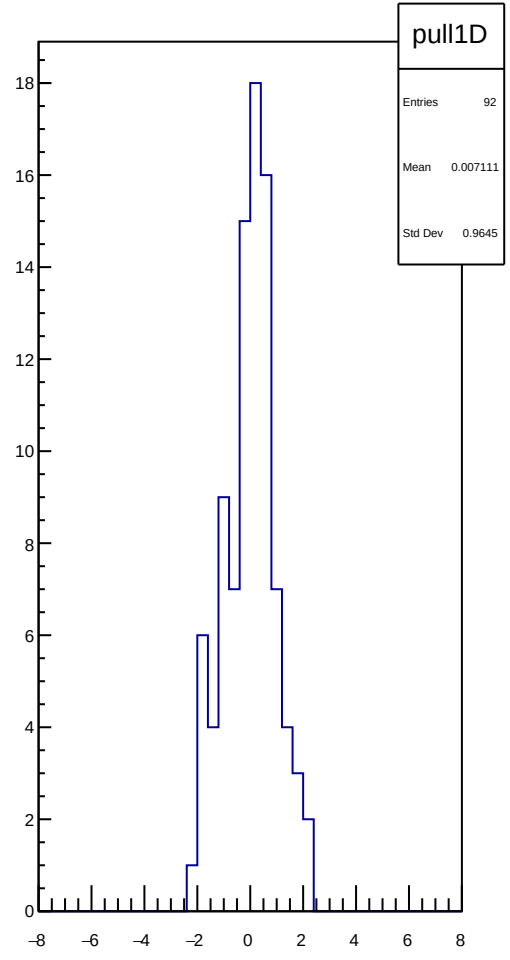

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 77.8 / 91
p0 −0.00543 ± 0.01566
pull
Entries 92
Mean −27.43
Std Dev 0
pull1D
Entries 92
Mean 0.005322
Std Dev 0.9196

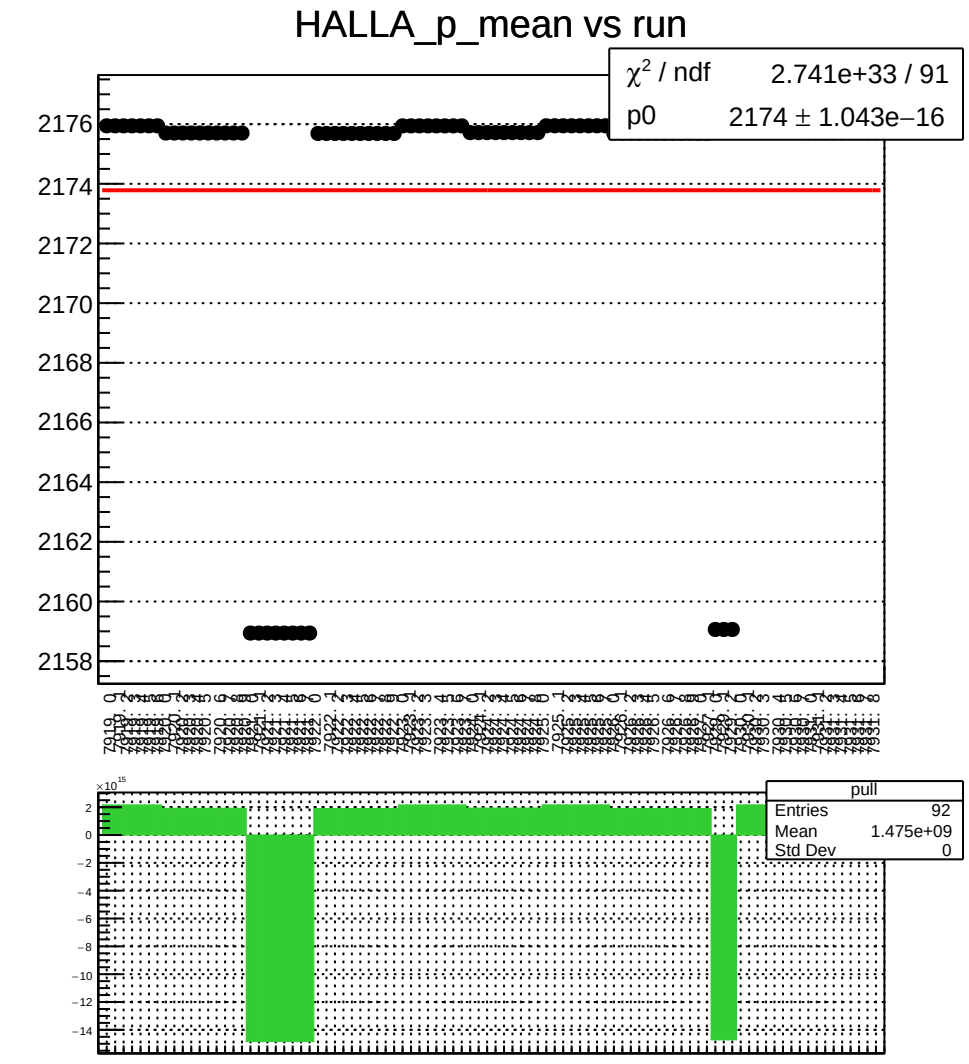

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 78.63 / 91
p0 −0.04593 ± 0.01358
0.4
0.2
0
−0.2
−0.4
pull
Entries 92
Mean 139.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

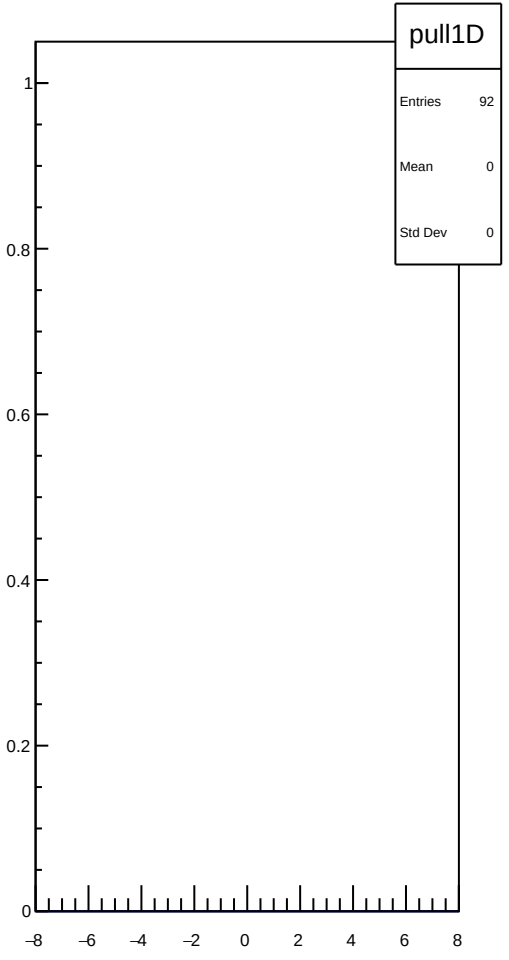

pull1D
Entries 92
Mean −0.01975
Std Dev 0.9243
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

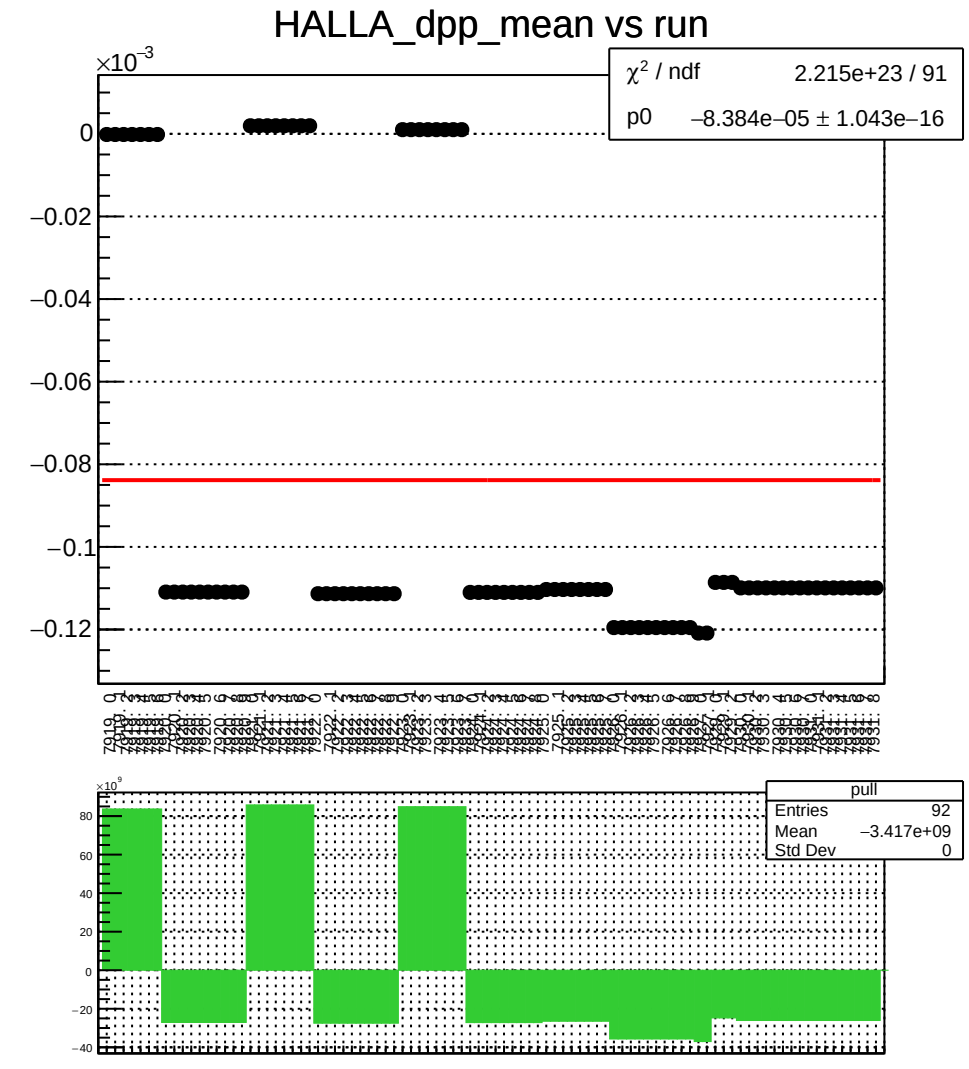

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 79.74 / 91
p0 −0.009239 ± 0.018
pull
Entries 92
Mean −61.24
Std Dev 0
pull1D
Entries 92
Mean −0.00524
Std Dev 0.931

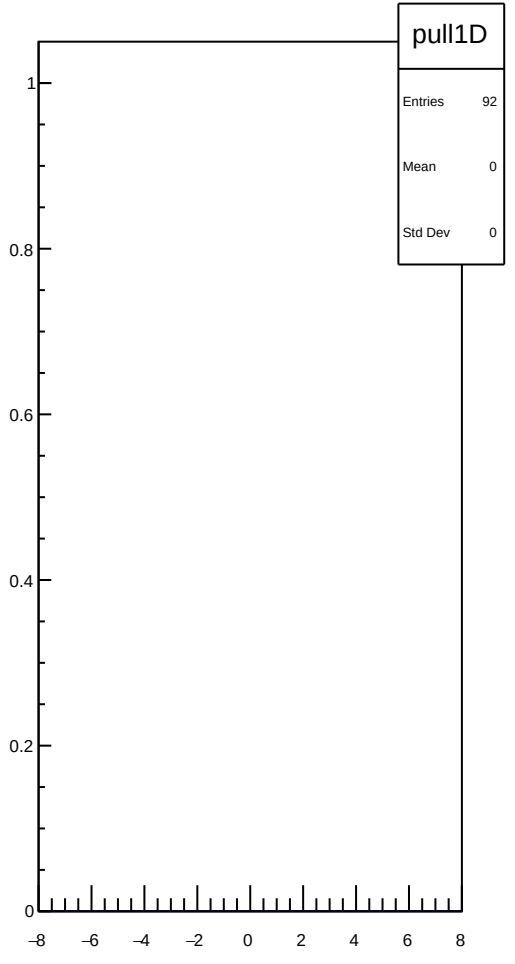

reg_asym_bcm_an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 85.58 / 91
p0 0.0007802 ± 0.0005202
pull
Entries 92
Mean 100.5
Std Dev 0

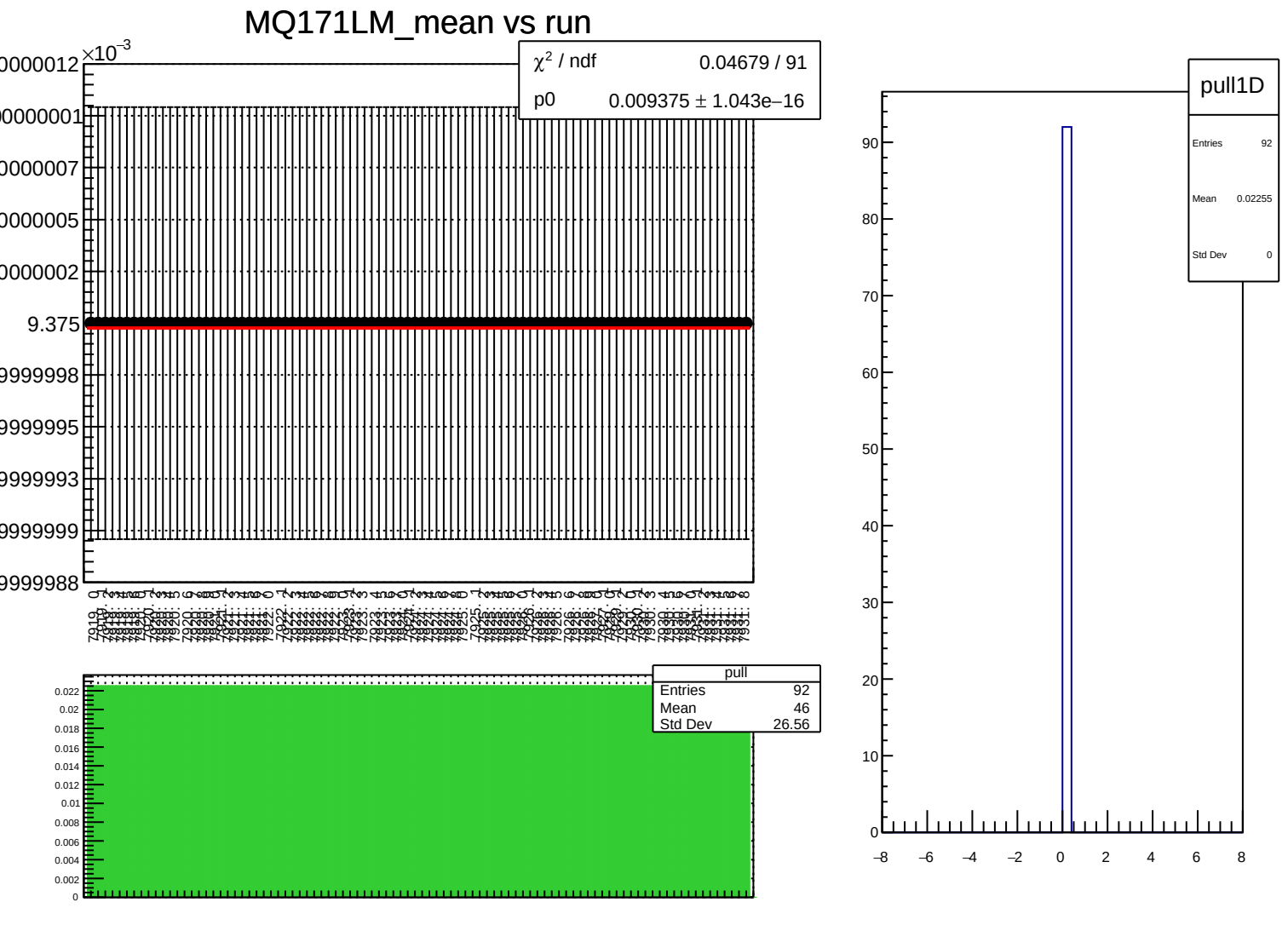

pull1D
Entries 92
Mean 0.007111
Std Dev 0.9645

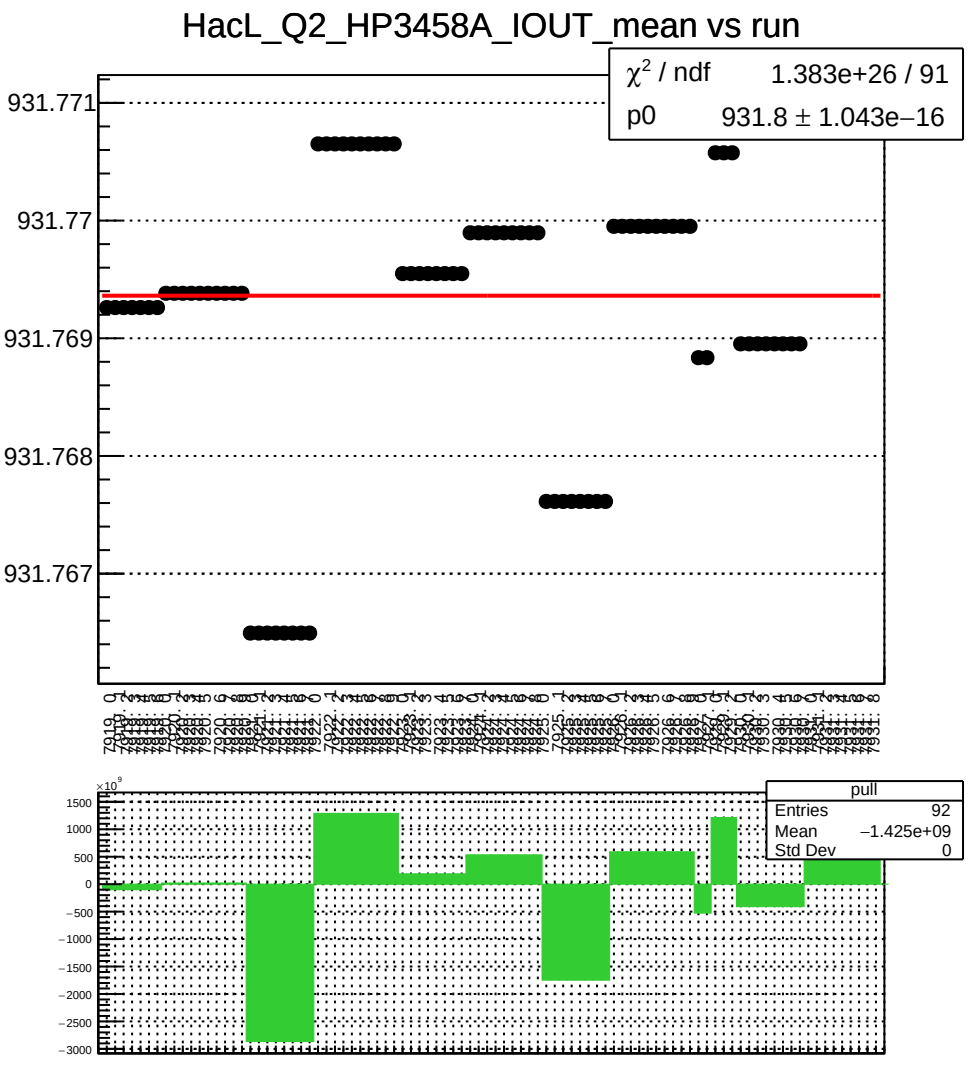

HALLA_p_mean vs run
χ² / ndf 2.741e+33 / 91
p0 2174 ± 1.043e−16
2176
2174
2172
2170
2168
2166
2164
2162
2160
2158
pull
Entries 92
Mean 1.475e+09
Std Dev 0
×10¹⁵
2
0
−2
−4
−6
−8
−10
−12
−14

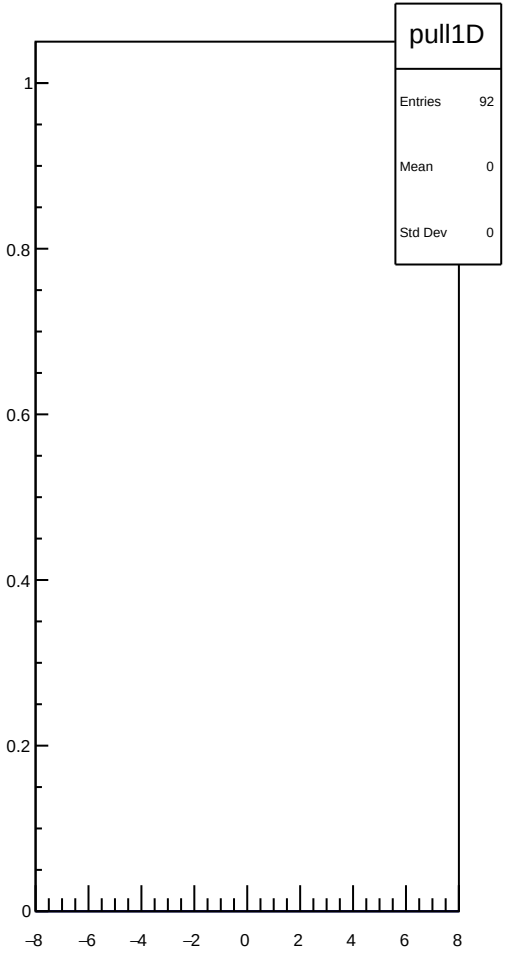

pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

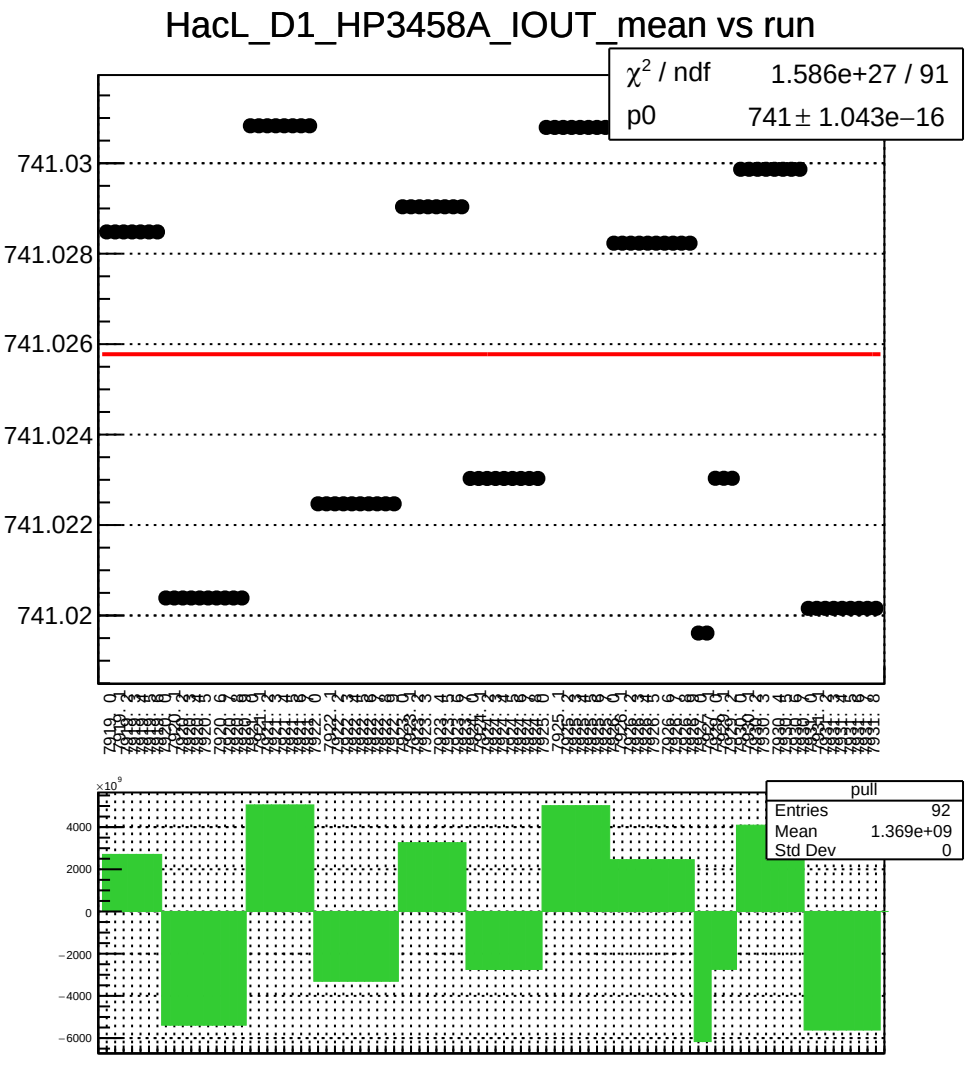

HALLA_dpp_mean vs run
×10⁻³
χ² / ndf 2.215e+23 / 91
p0 −8.384e−05 ± 1.043e−16
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
×10⁹
pull
Entries 92
Mean −3.417e+09
Std Dev 0
80
60
40
20
0
−20
−40

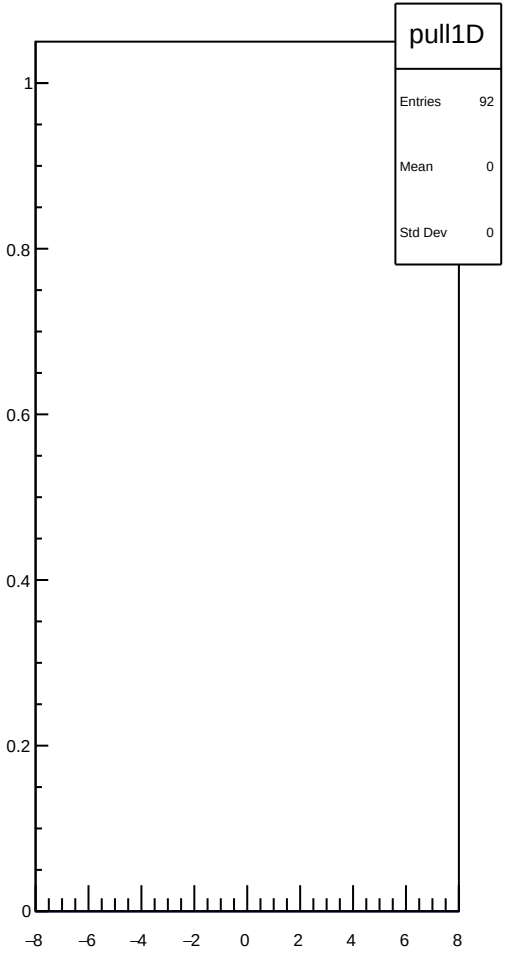

pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

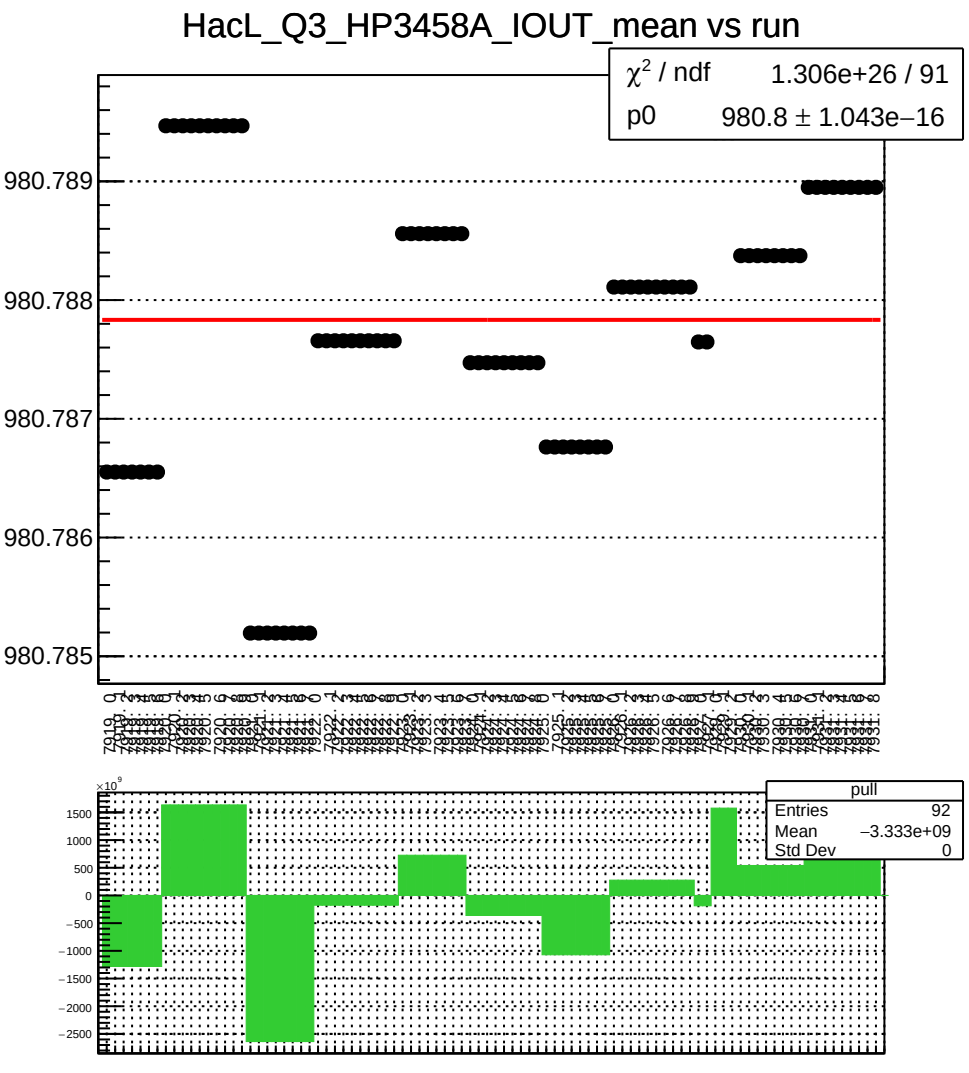

MQ171LM_mean vs run
χ² / ndf 0.04679 / 91
p0 0.009375 ± 1.043e−16
×10⁻³
pull
Entries 92
Mean 46
Std Dev 26.56
pull1D
Entries 92
Mean 0.02255
Std Dev 0

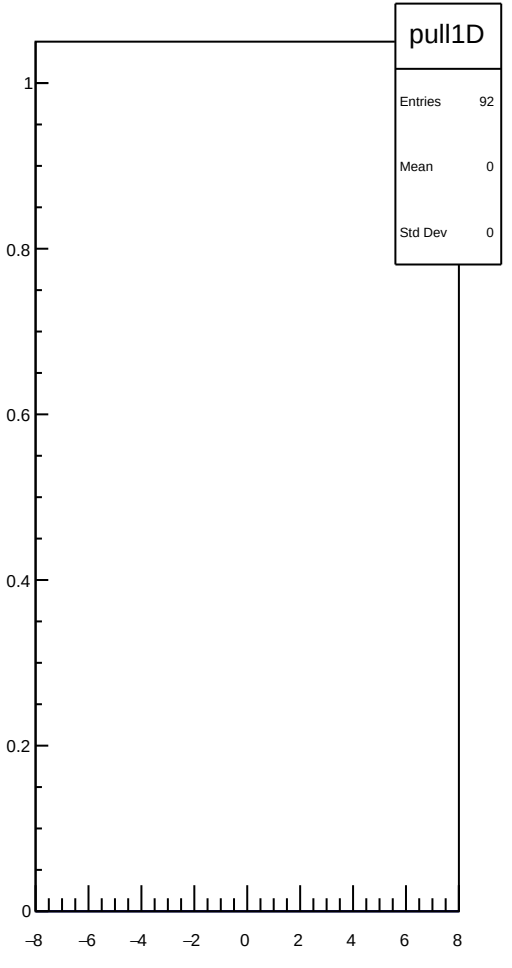

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 1.383e+26 / 91
p0 931.8 ± 1.043e−16
931.771
931.77
931.769
931.768
931.767
×10⁹
1500
1000
500
0
−500
−1000
−1500
−2000
−2500
−3000
pull
Entries 92
Mean −1.425e+09
Std Dev 0

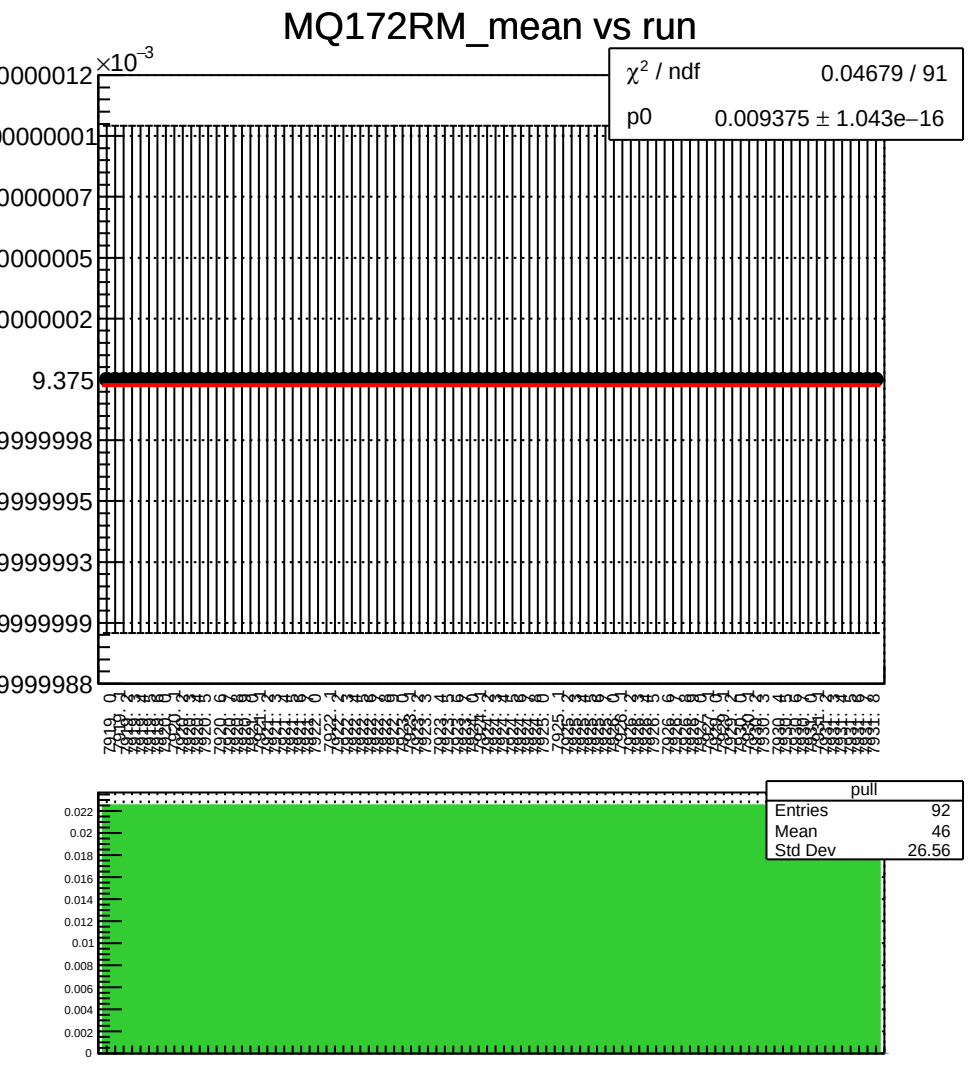

pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

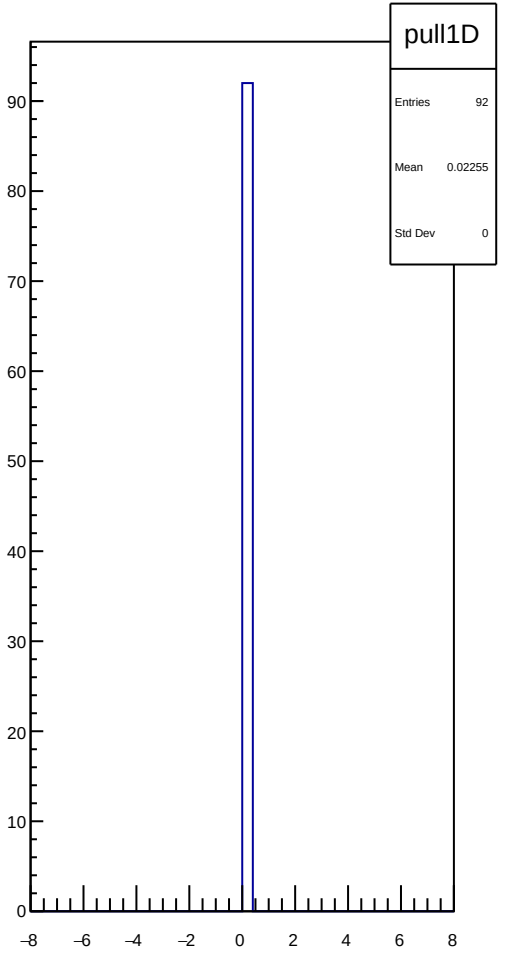

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 1.586e+27 / 91
p0 741 ± 1.043e−16
741.03
741.028
741.026
741.024
741.022
741.02
pull
Entries 92
Mean 1.369e+09
Std Dev 0
×10⁹
4000
2000
0
−2000
−4000
−6000

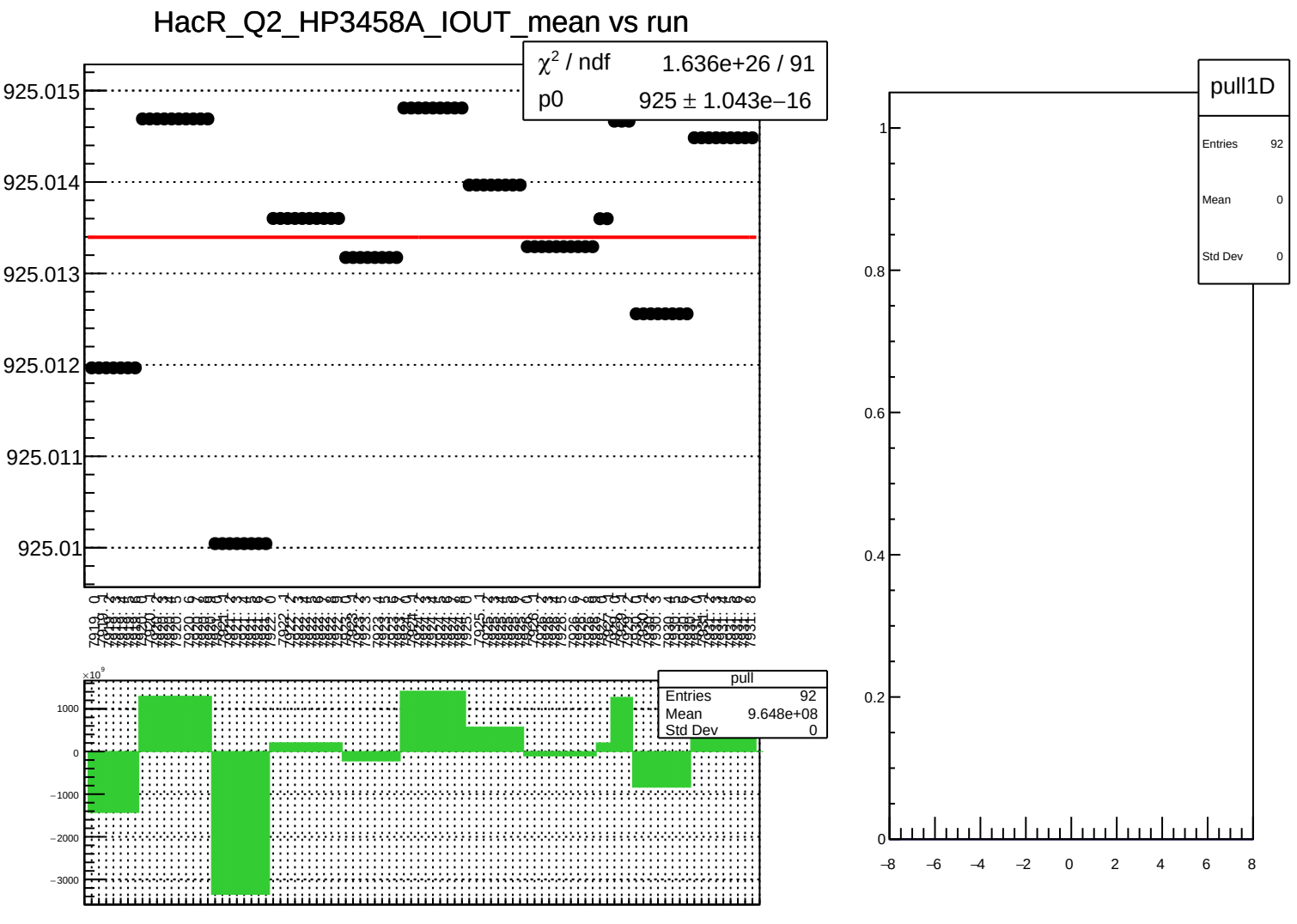

pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

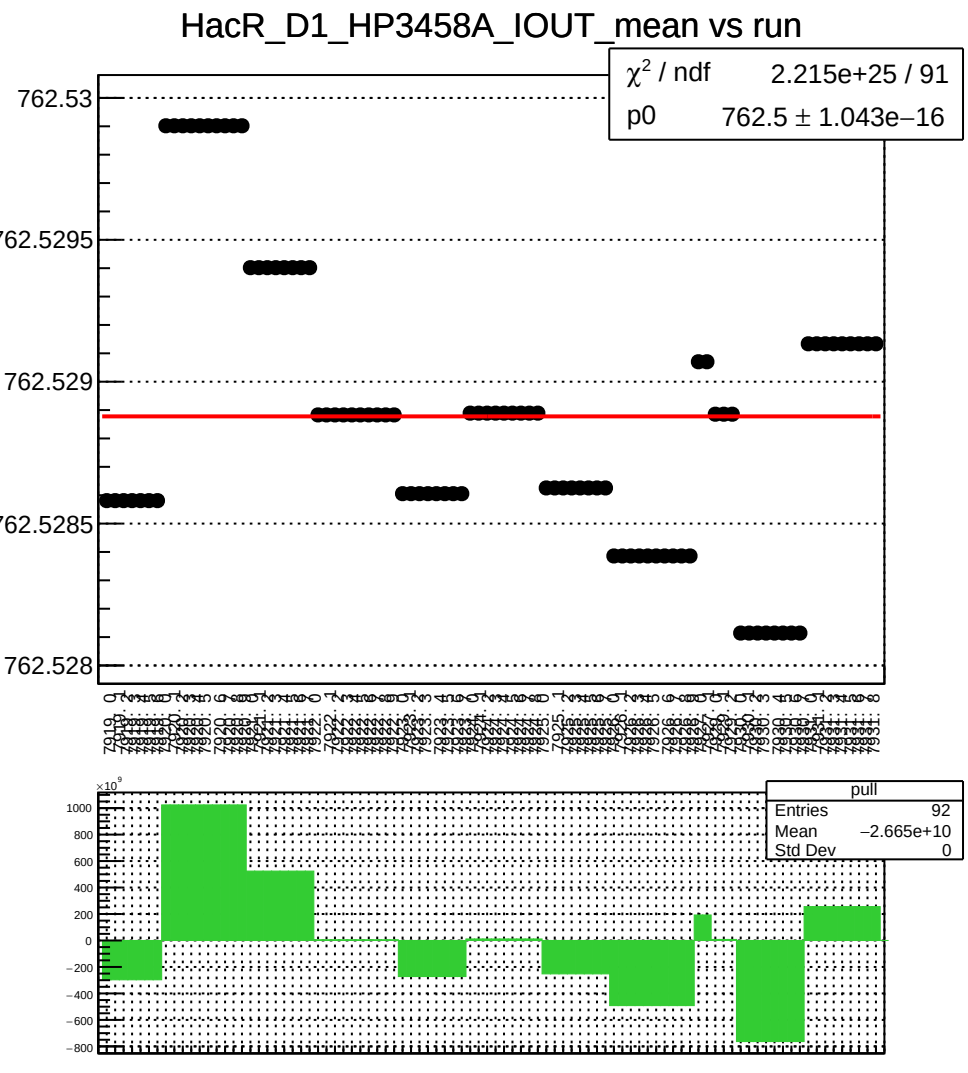

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 1.306e+26 / 91
p0 980.8 ± 1.043e−16
980.789
980.788
980.787
980.786
980.785
pull
Entries 92
Mean −3.333e+09
Std Dev 0
×10⁹
1500
1000
500
0
−500
−1000
−1500
−2000
−2500

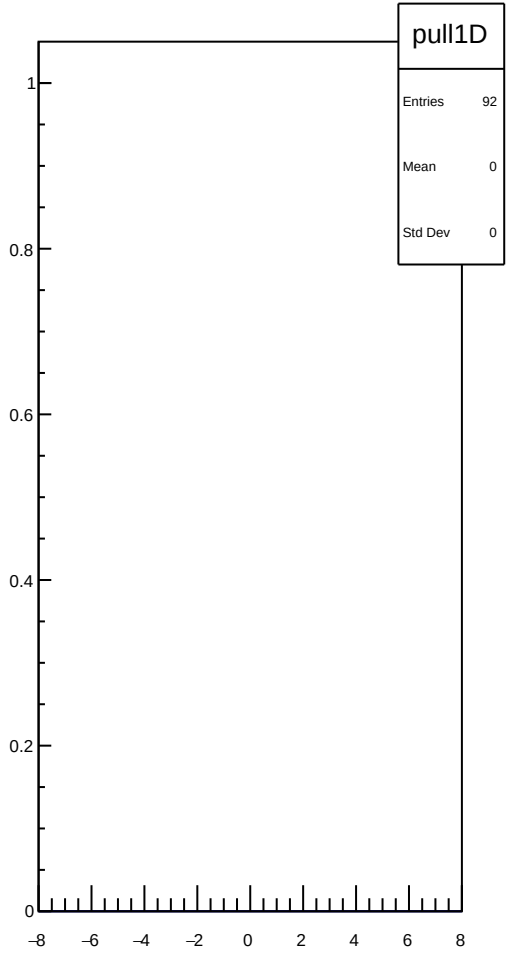

pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

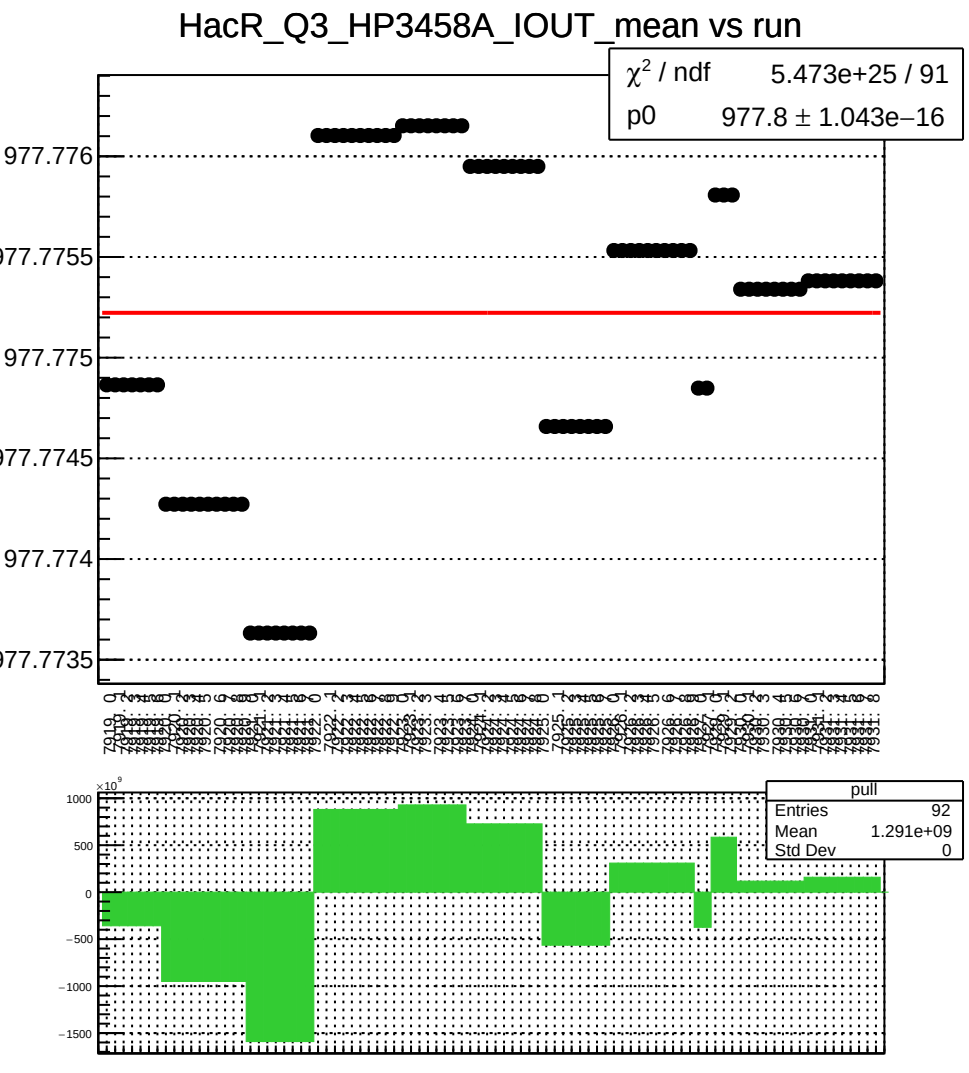

MQ172RM_mean vs run
χ^2 / ndf 0.04679 / 91
p0 0.009375 ± 1.043e−16
×10⁻³
pull
Entries 92
Mean 46
Std Dev 26.56

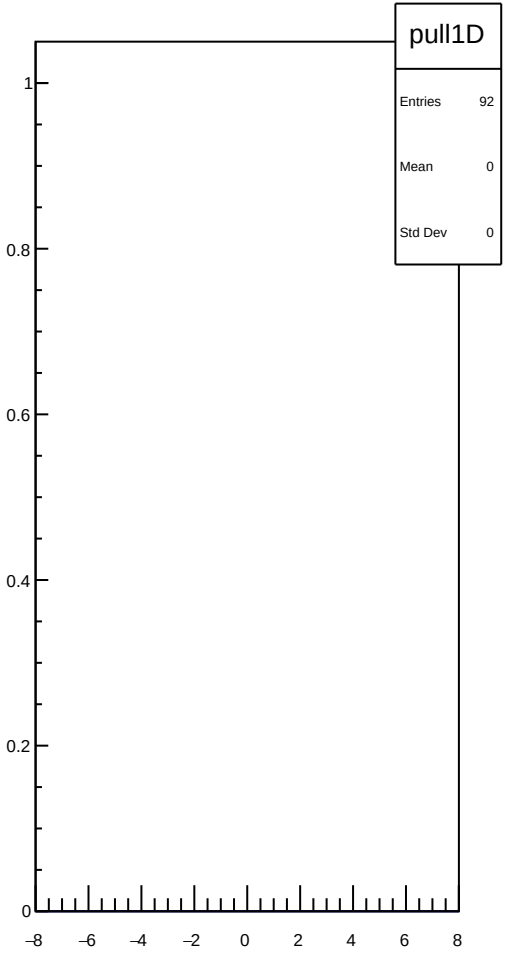

pull1D
Entries 92
Mean 0.02255
Std Dev 0

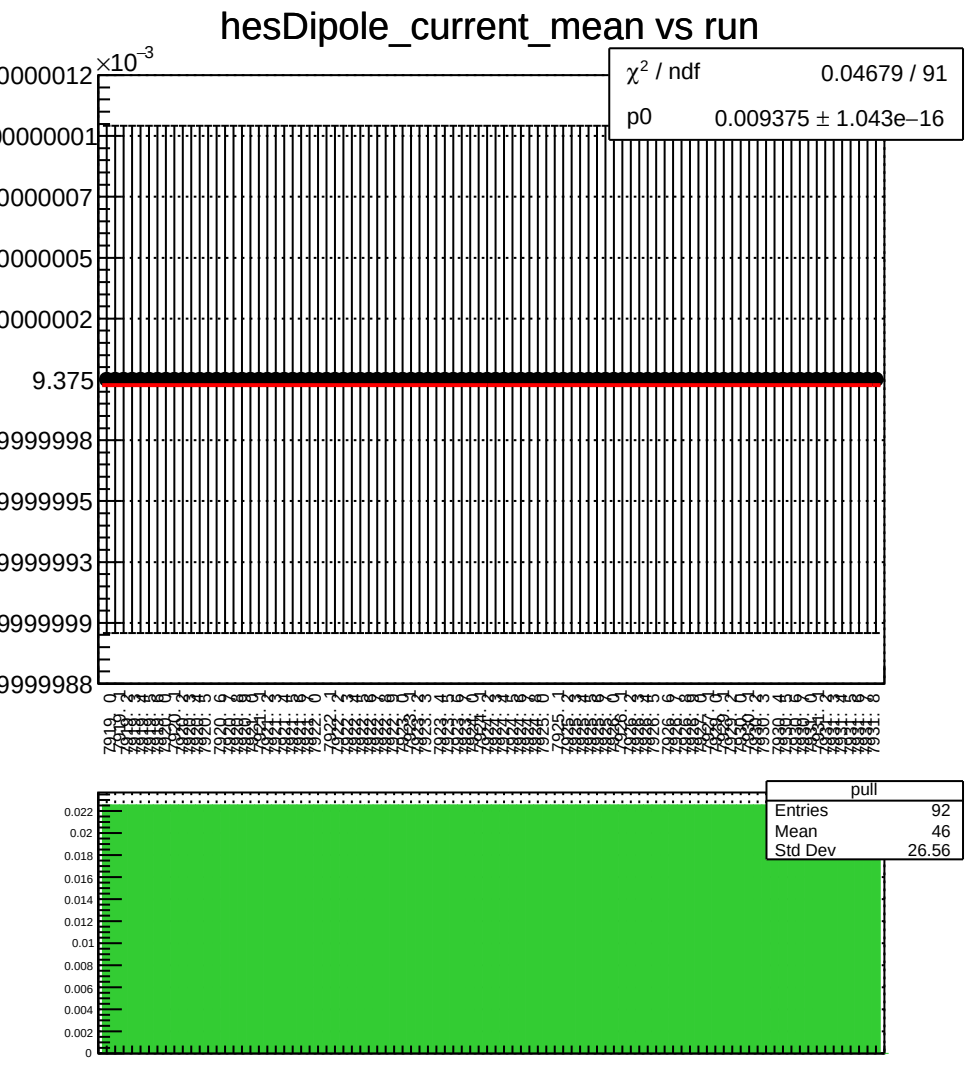

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 1.636e+26 / 91
p0 925 ± 1.043e−16
925.015
925.014
925.013
925.012
925.011
925.01
pull
Entries 92
Mean 9.648e+08
Std Dev 0
×10⁹
1000
0
−1000
−2000
−3000
pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

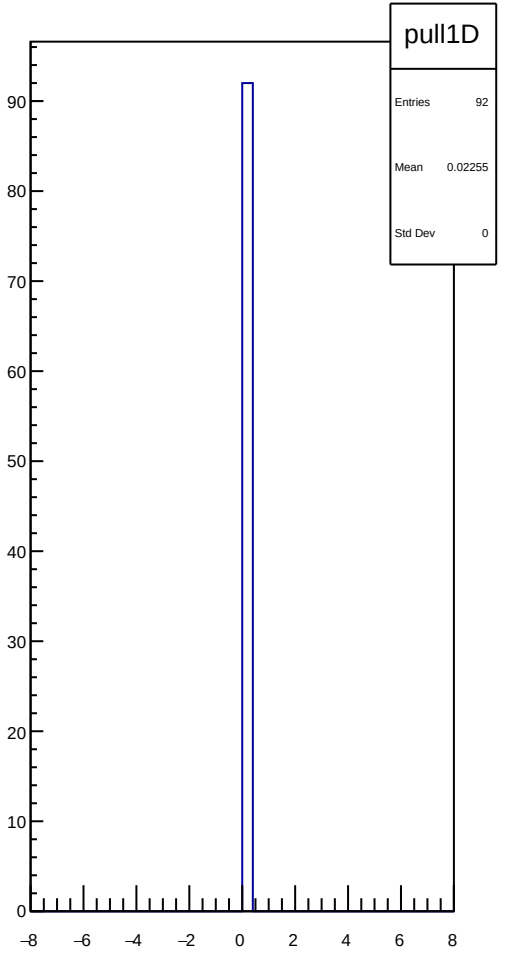

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 2.215e+25 / 91
p0 762.5 ± 1.043e−16
762.53
762.5295
762.529
762.5285
762.528
pull
Entries 92
Mean −2.665e+10
Std Dev 0
×10⁹
1000
800
600
400
200
0
−200
−400
−600
−800

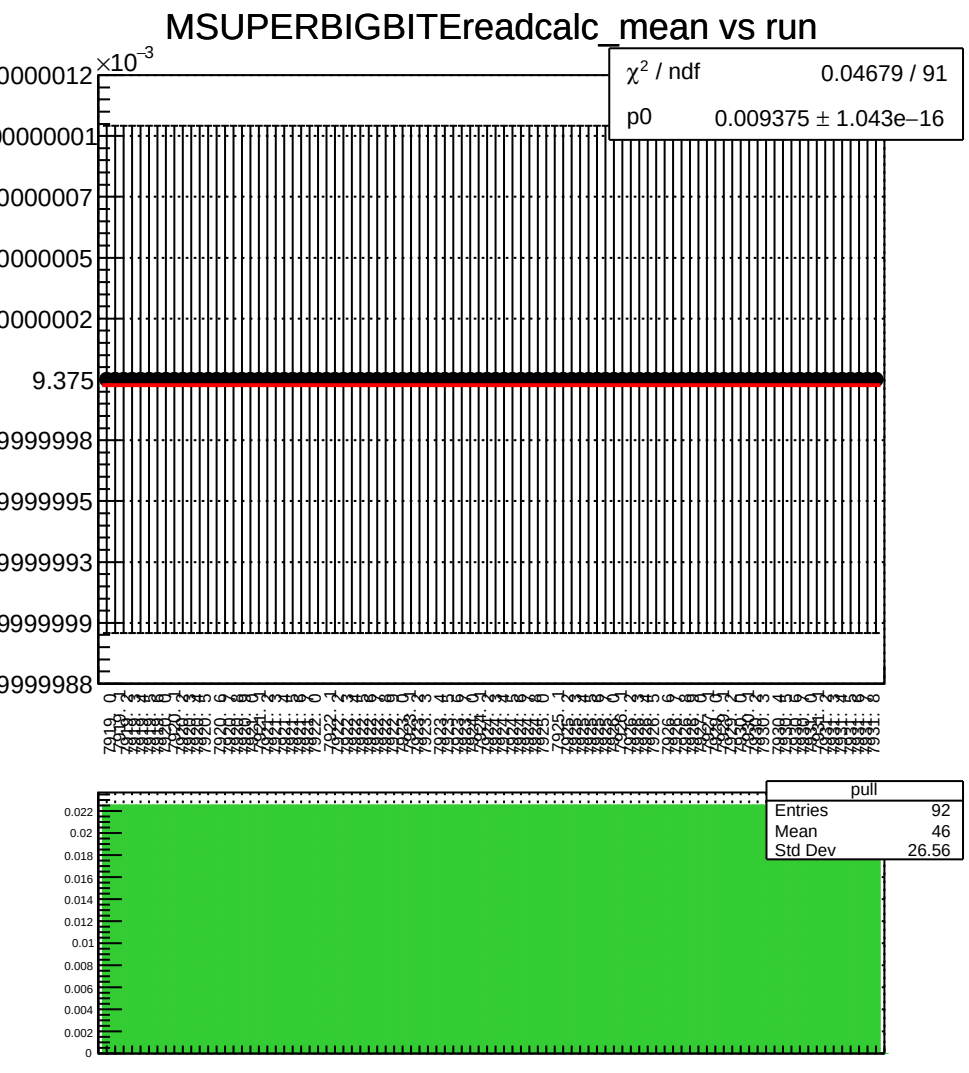

pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

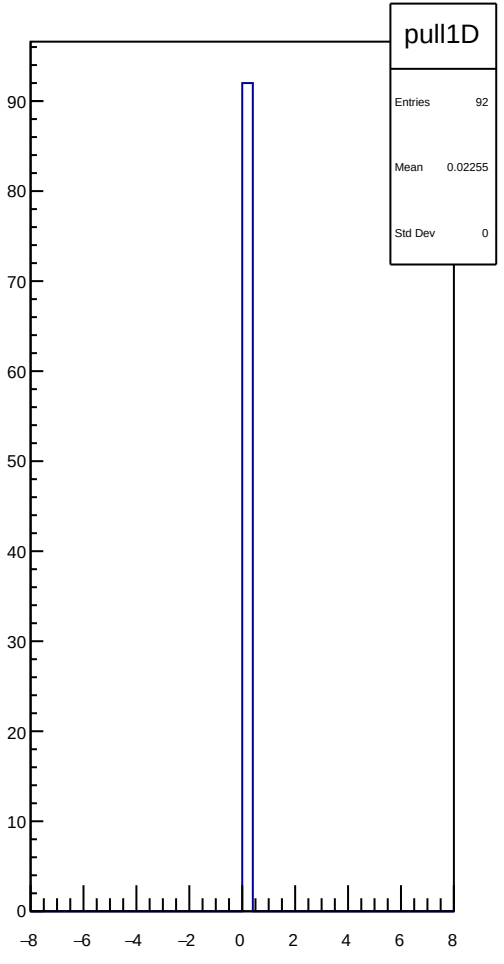

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 5.473e+25 / 91
p0 977.8 ± 1.043e−16
977.776
977.7755
977.775
977.7745
977.774
977.7735
×10⁹
1000
500
0
−500
−1000
−1500
pull
Entries 92
Mean 1.291e+09
Std Dev 0

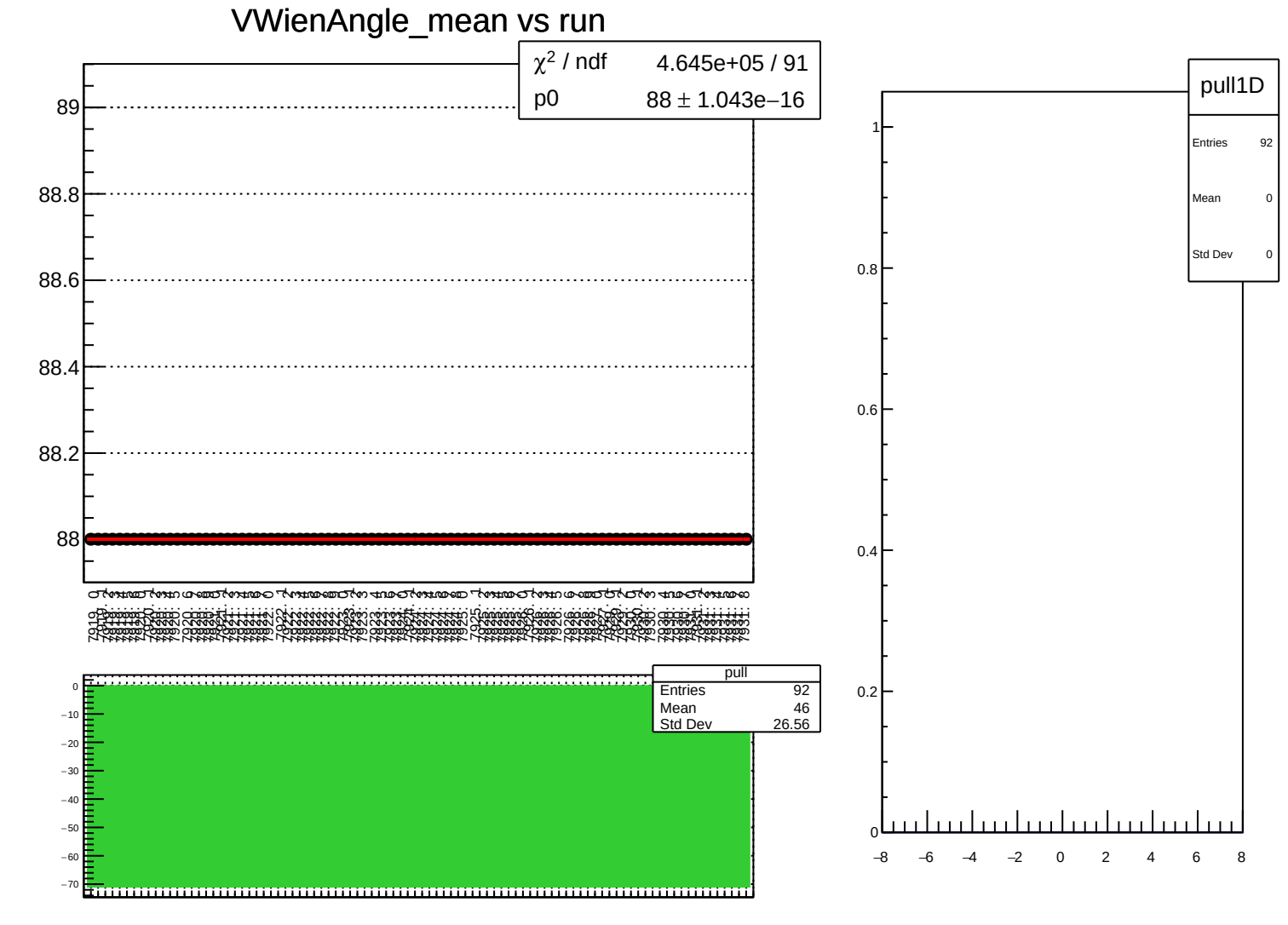

pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

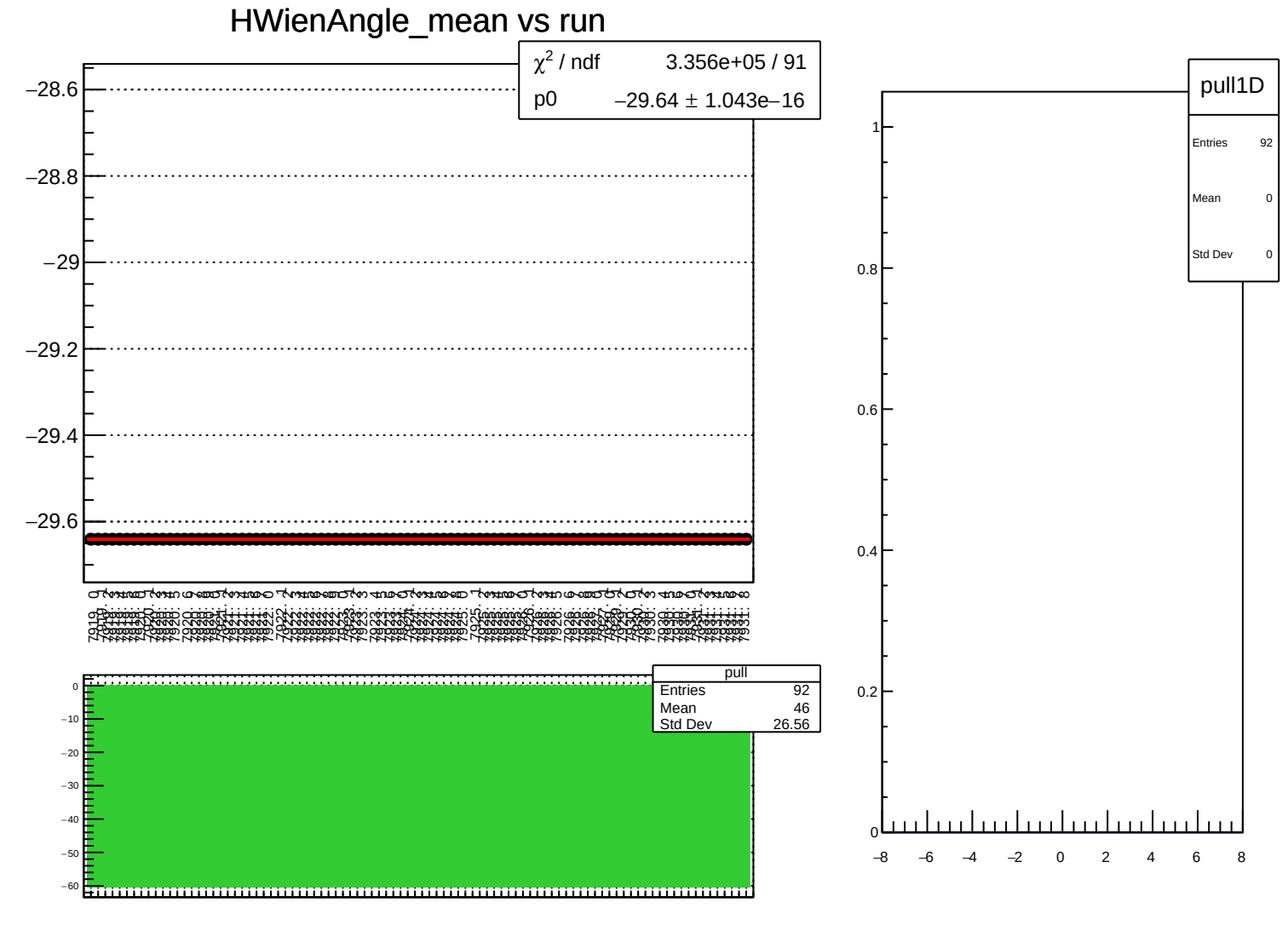

hesDipole_current_mean vs run
χ² / ndf 0.04679 / 91
p0 0.009375 ± 1.043e−16
pull
Entries 92
Mean 46
Std Dev 26.56

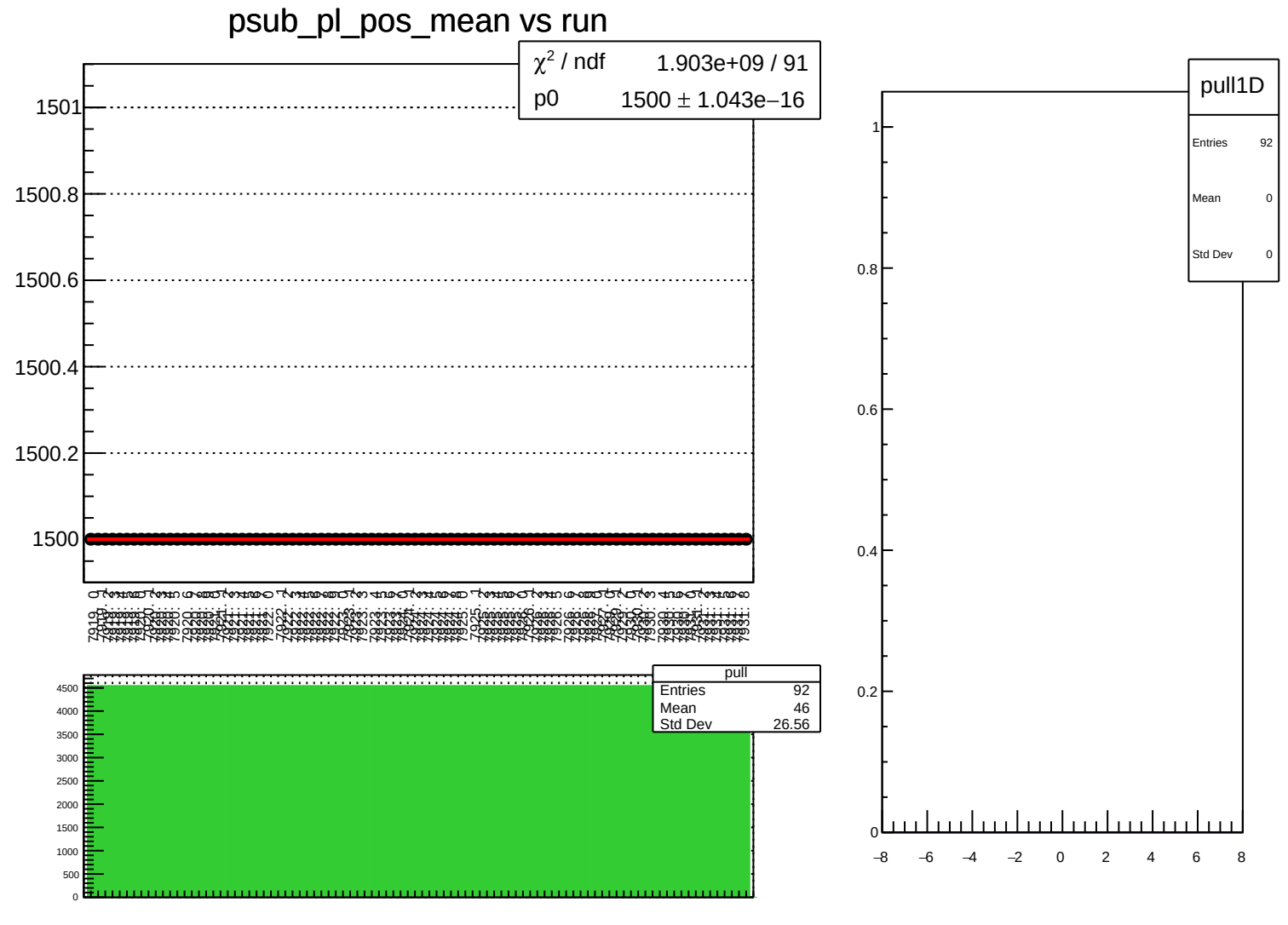

pull1D
Entries 92
Mean 0.02255
Std Dev 0

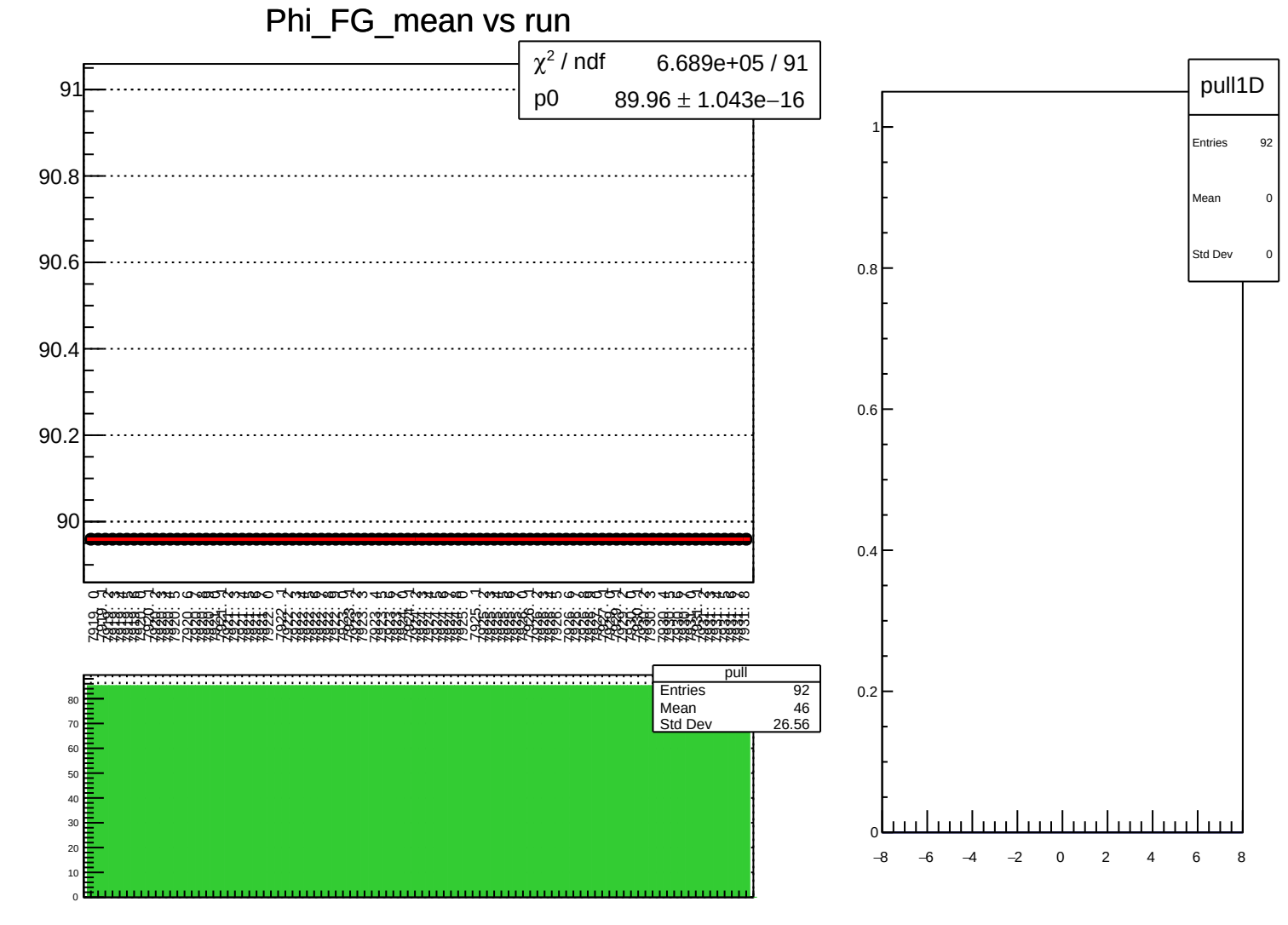

MSUPERBIGBITEreadcalc_mean vs run
χ² / ndf 0.04679 / 91
p0 0.009375 ± 1.043e−16
×10⁻³
pull
Entries 92
Mean 46
Std Dev 26.56

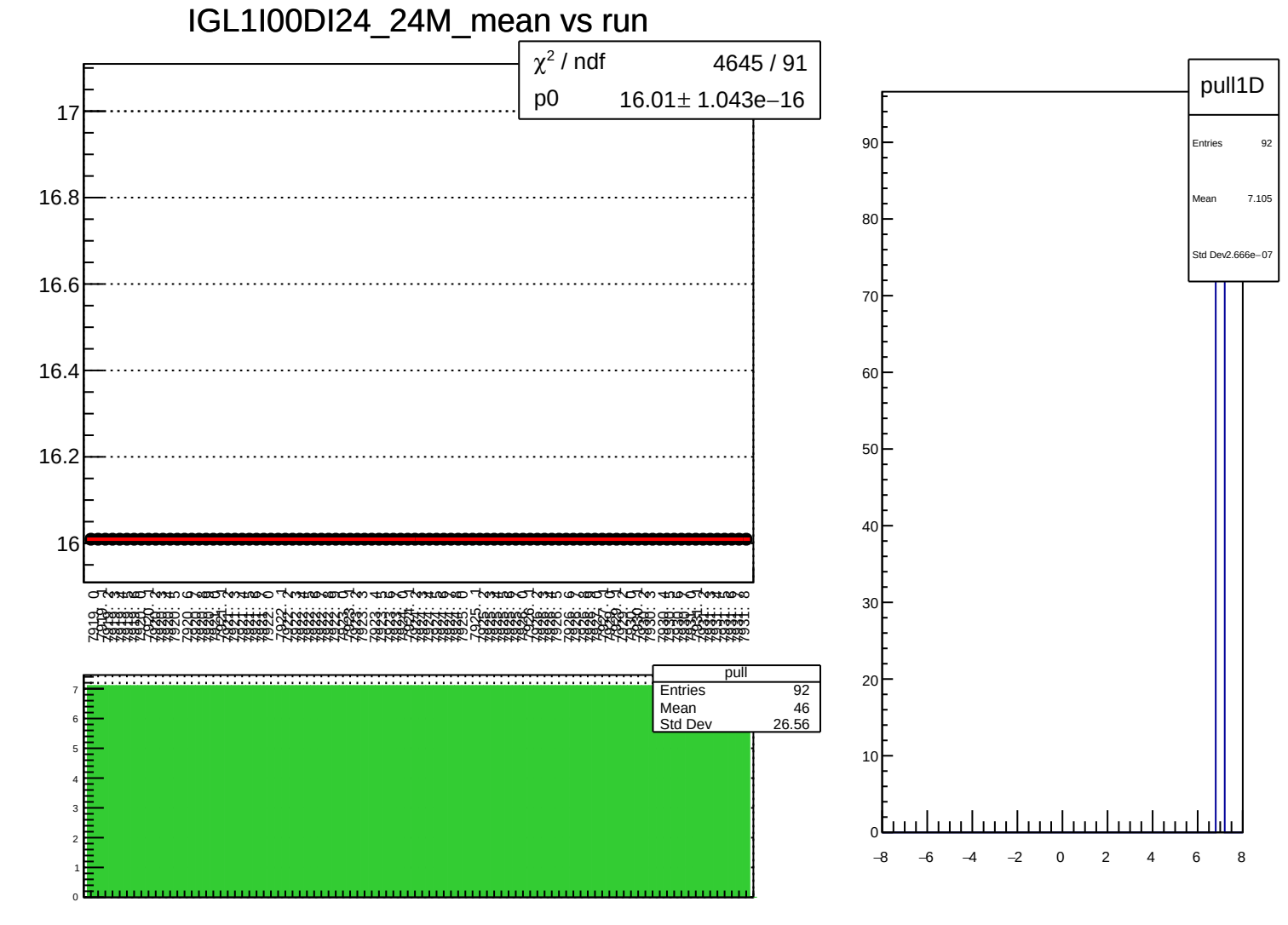

pull1D
Entries 92
Mean 0.02255
Std Dev 0

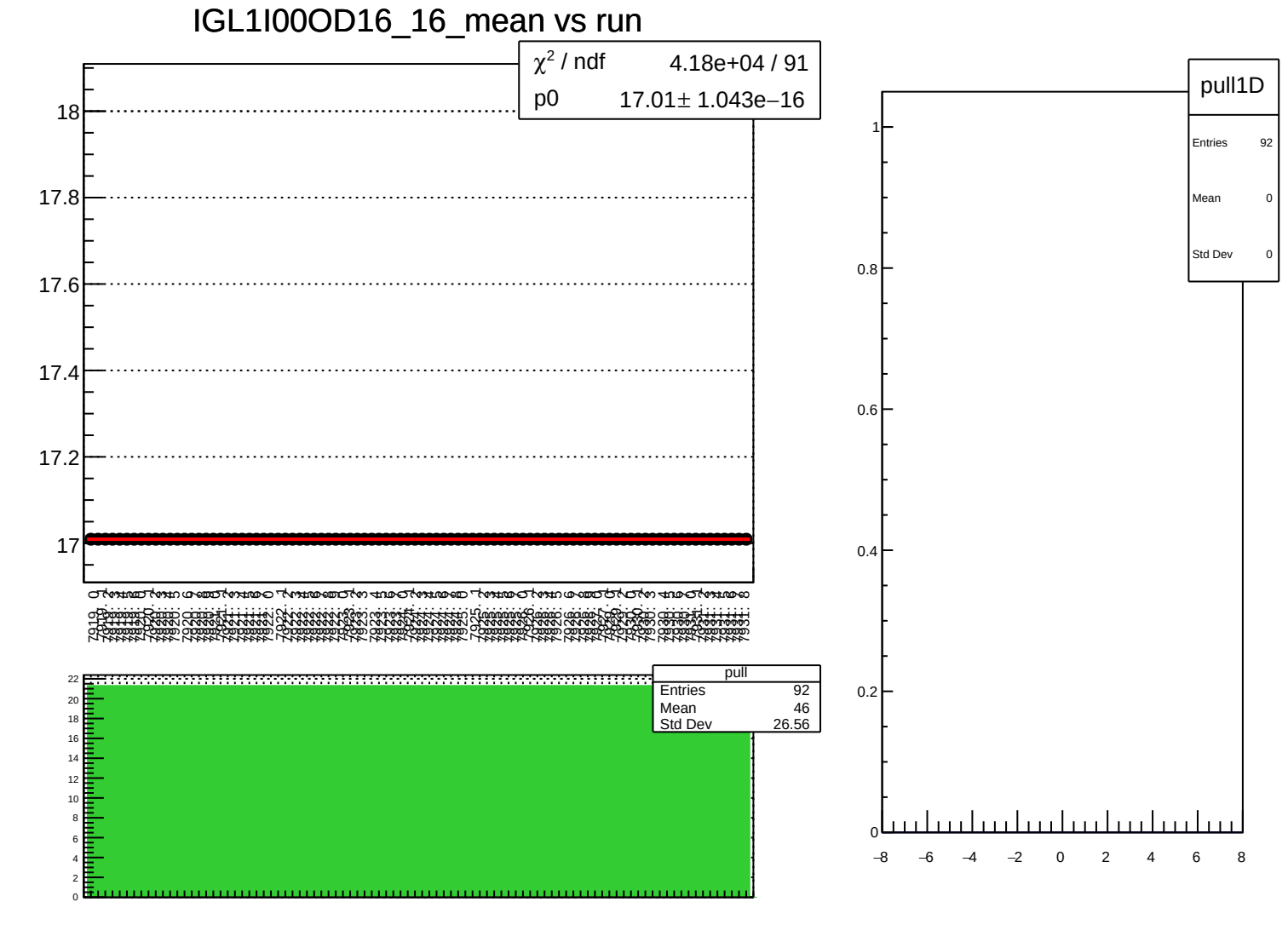

VWienAngle_mean vs run
χ² / ndf 4.645e+05 / 91
p0 88 ± 1.043e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 92
Mean 46
Std Dev 26.56
0
−10
−20
−30
−40
−50
−60
−70
pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

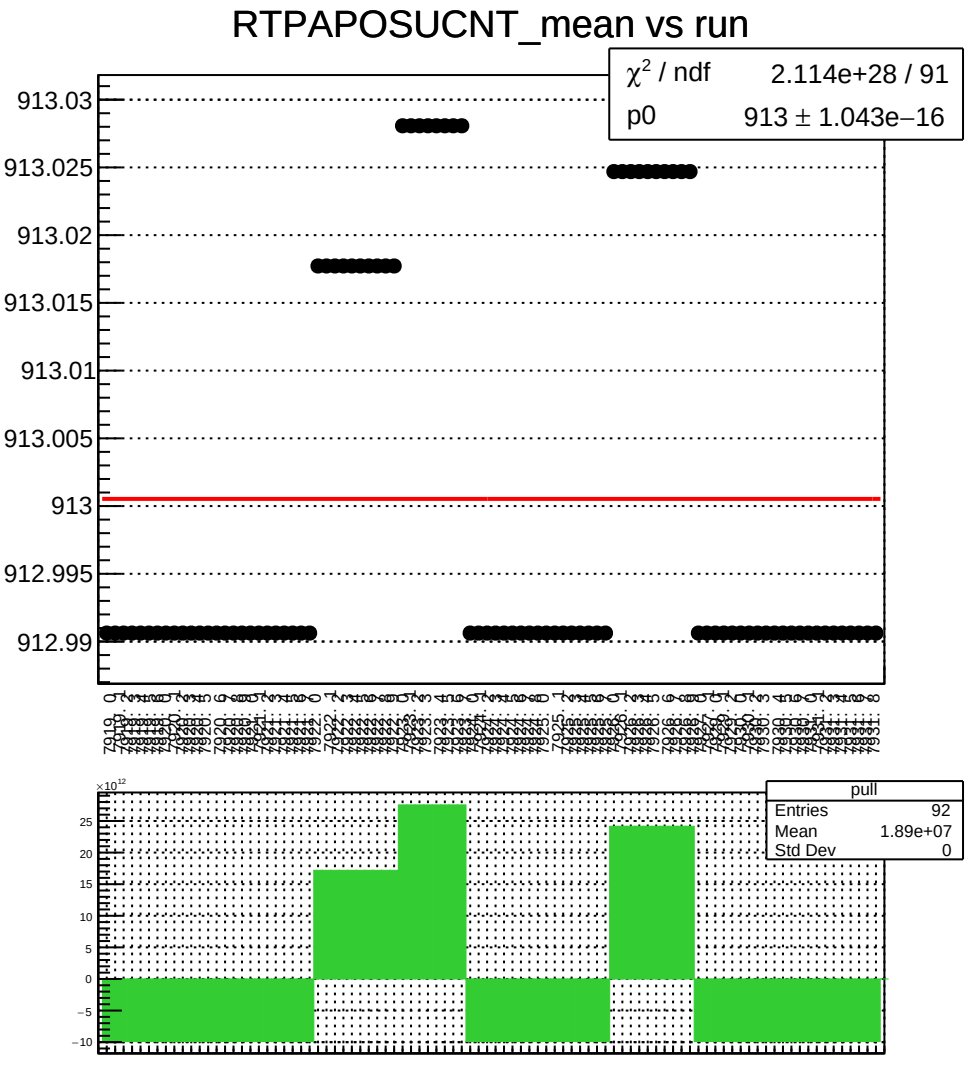

HWienAngle_mean vs run
χ² / ndf 3.356e+05 / 91
p0 −29.64 ± 1.043e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 92
Mean 46
Std Dev 26.56
0
−10
−20
−30
−40
−50
−60
pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

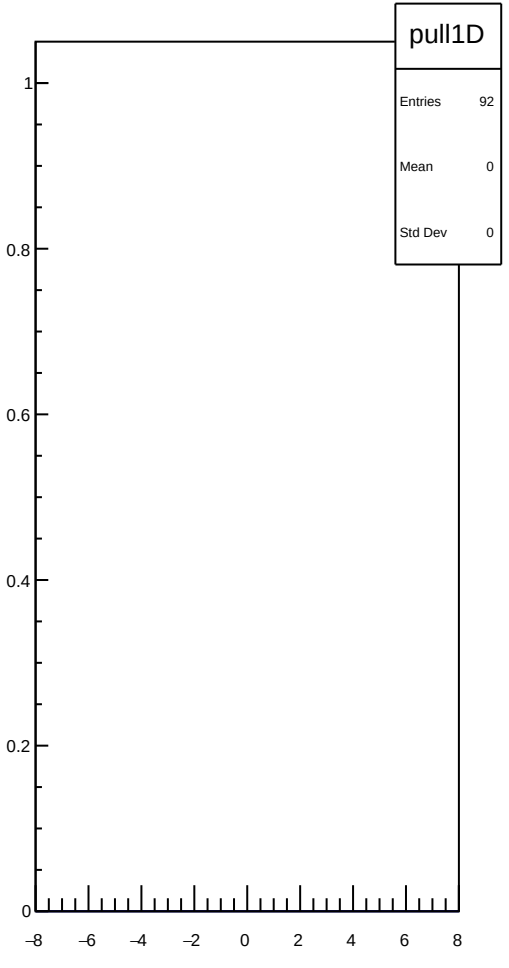

psub_pl_pos_mean vs run
χ² / ndf 1.903e+09 / 91
p0 1500 ± 1.043e−16
1501
1500.8
1500.6
1500.4
1500.2
1500
pull
Entries 92
Mean 46
Std Dev 26.56
4500
4000
3500
3000
2500
2000
1500
1000
500
0
pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

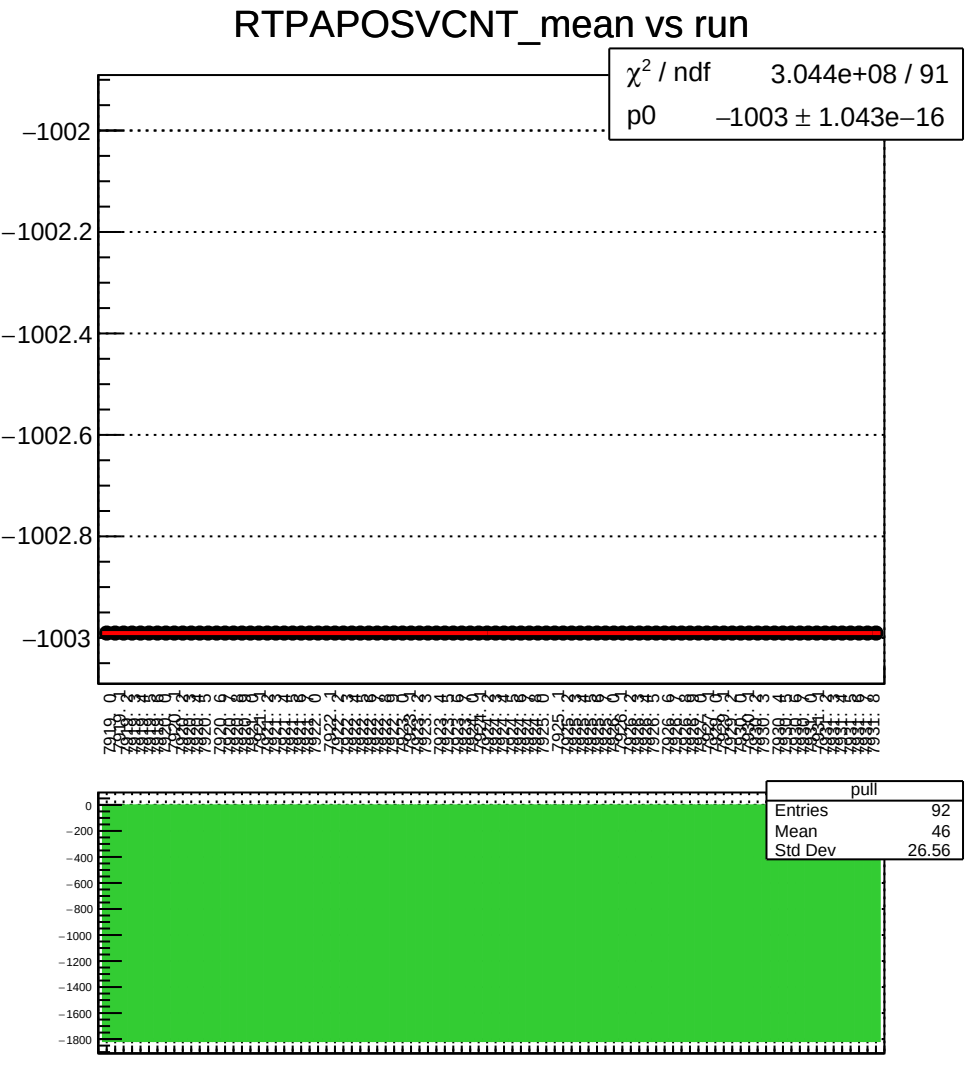

Phi_FG_mean vs run
χ² / ndf 6.689e+05 / 91
p0 89.96 ± 1.043e−16
91
90.8
90.6
90.4
90.2
90
pull
Entries 92
Mean 46
Std Dev 26.56
80
70
60
50
40
30
20
10
0
pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

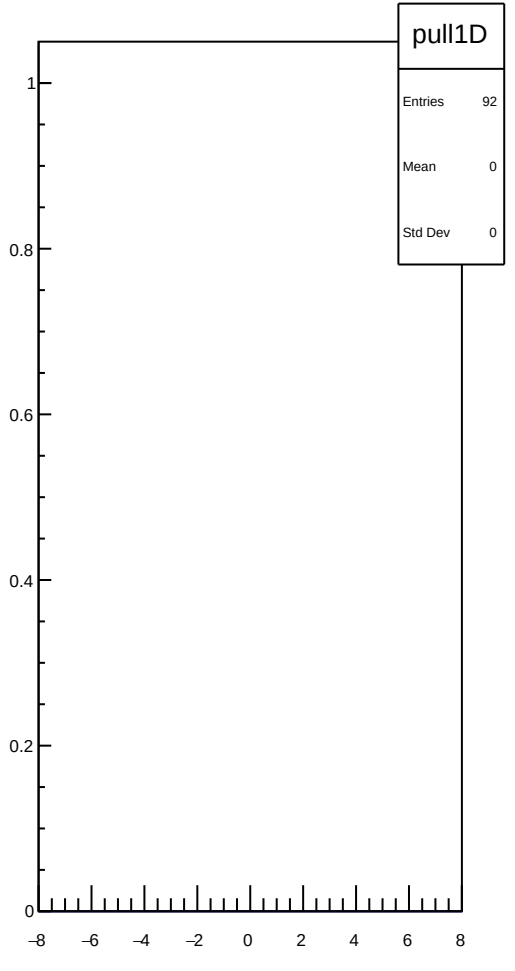

IGL1I00DI24_24M_mean vs run
χ² / ndf 4645 / 91
p0 16.01± 1.043e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 92
Mean 46
Std Dev 26.56
pull1D
Entries 92
Mean 7.105
Std Dev2.666e−07

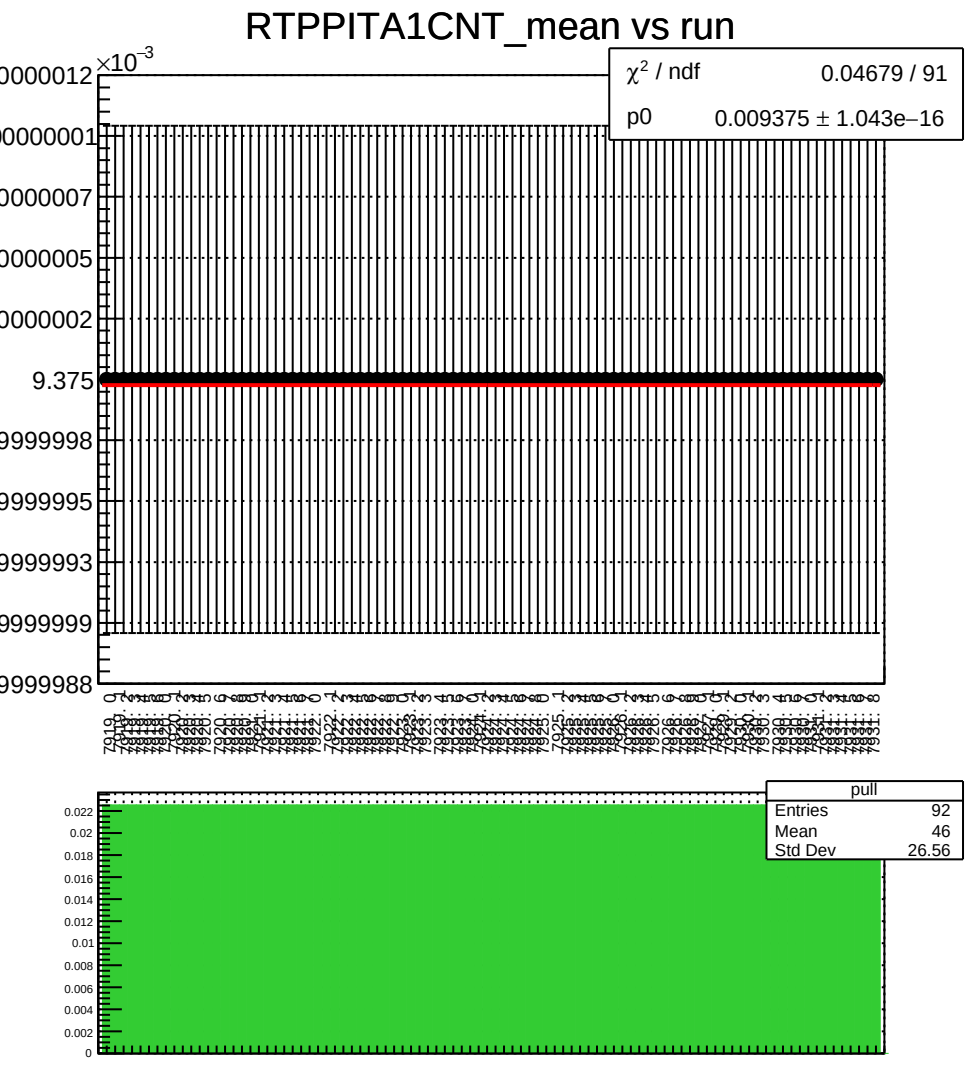

IGL1I00OD16_16_mean vs run
χ² / ndf 4.18e+04 / 91
p0 17.01± 1.043e−16
18
17.8
17.6
17.4
17.2
17
pull
Entries 92
Mean 46
Std Dev 26.56
22
20
18
16
14
12
10
8
6
4
2
0
pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

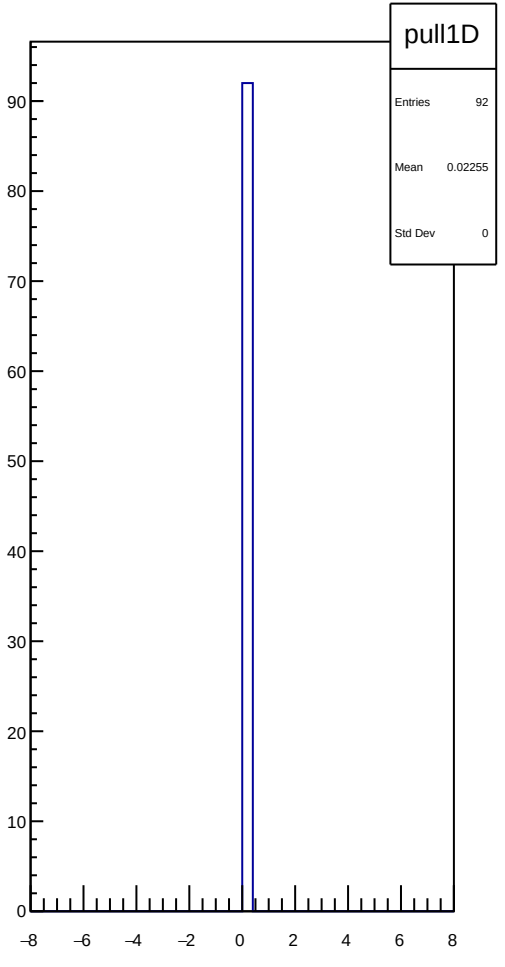

RTPAPOSUCNT_mean vs run
χ² / ndf 2.114e+28 / 91
p0 913 ± 1.043e−16
913.03
913.025
913.02
913.015
913.01
913.005
913
912.995
912.99
pull
Entries 92
Mean 1.89e+07
Std Dev 0
×10¹²
25
20
15
10
5
0
−5
−10

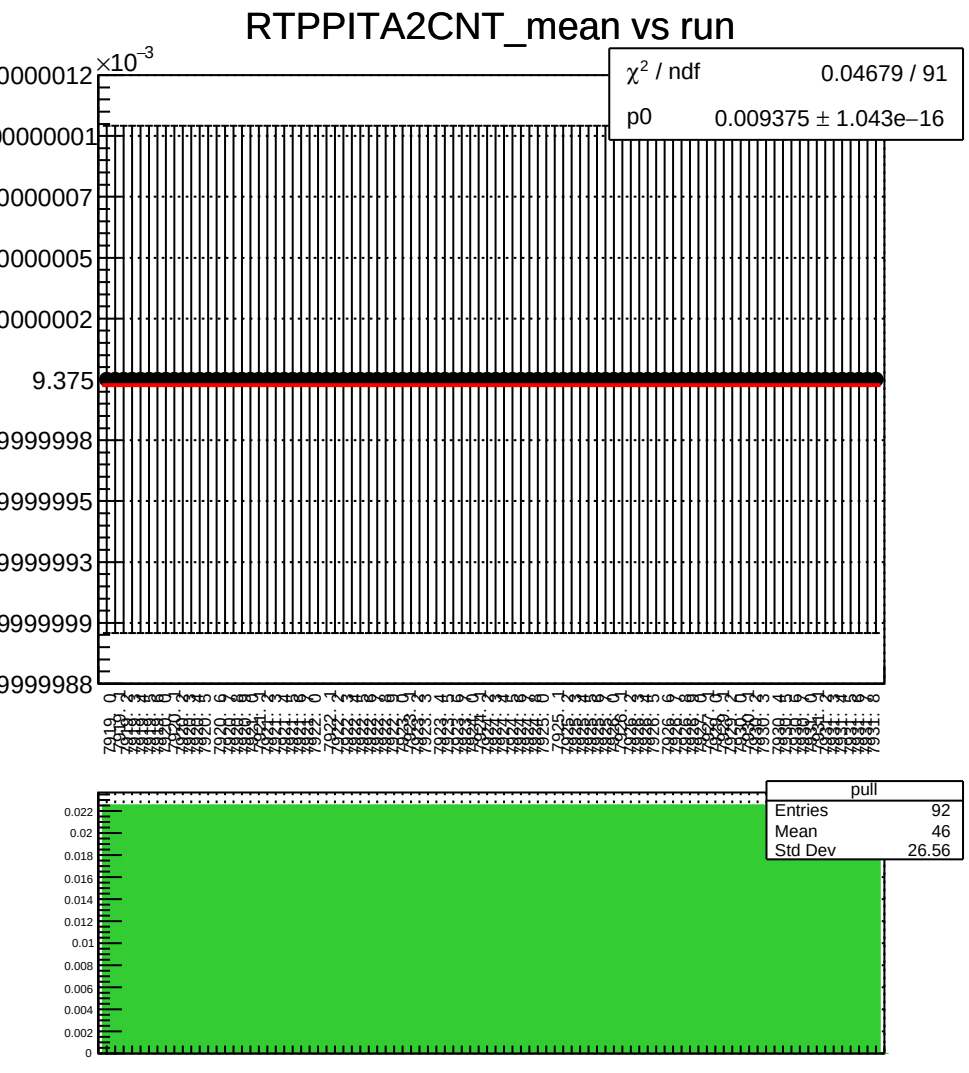

pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

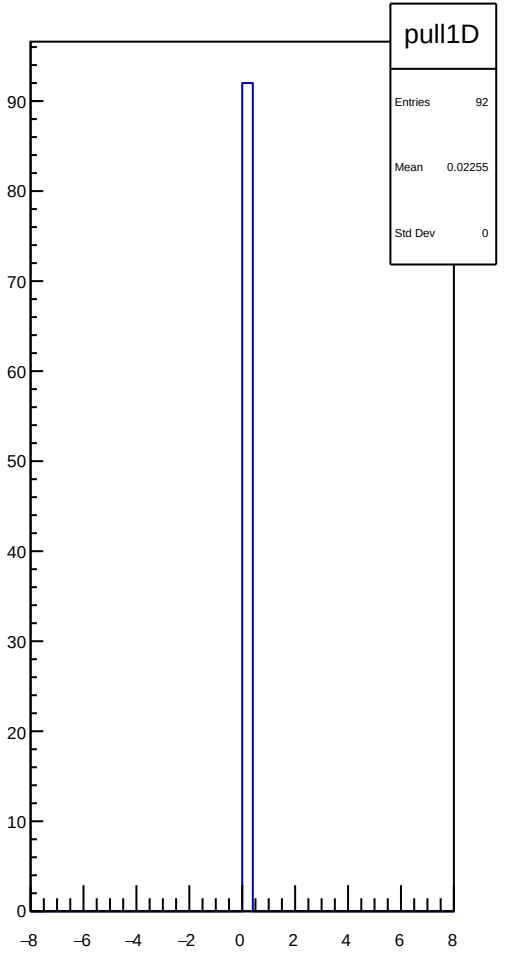

RTPAPOSVCNT_mean vs run
χ² / ndf 3.044e+08 / 91
p0 −1003 ± 1.043e−16
−1002
−1002.2
−1002.4
−1002.6
−1002.8
−1003
pull
Entries 92
Mean 46
Std Dev 26.56
0
−200
−400
−600
−800
−1000
−1200
−1400
−1600
−1800


pull1D
Entries 92
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 0.04679 / 91
p0 0.009375 ± 1.043e−16
×10⁻³
pull
Entries 92
Mean 46
Std Dev 26.56


pull1D
Entries 92
Mean 0.02255
Std Dev 0


RTPPITA2CNT_mean vs run
χ² / ndf 0.04679 / 91
p0 0.009375 ± 1.043e−16
×10⁻³
pull
Entries 92
Mean 46
Std Dev 26.56


pull1D
Entries 92
Mean 0.02255
Std Dev 0